

## TEST REPORT

**Applicant:** Shenzhen Xinguodu Technology Co., Ltd.

**Address:** 17B JinSong Mansion, Terra Industrial & Trade Park  
Chegongmiao, Futian District, Shenzhen, Guangdong, China.

**Product Name:** POS terminal

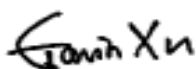
**FCC ID:** XDQN96-03

**Standard(s):** 47 CFR Part 15, Subpart E(15.407)  
ANSI C63.10-2013  
KDB 789033 D02 General U-NII Test Procedures New Rules  
v02r01

**Report Number:** 2402W90636E-RF-00D

**Report Date:** 2024/9/19

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).



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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2402W90636E-RF-00D	Original Report	2024/9/19

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	POS terminal
<b>EUT Model:</b>	N96
<b>Operation Frequency:</b>	Band1: 5180-5240 MHz(802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) Band2: 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) Band3: 5500-5720 MHz (802.11a/n ht20/ac vht20) 5510-5710 MHz(802.11n ht40/vht40) 5530-5690MHz(802.11ac vht80) Band4: 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz(802.11n ht40/ac vht40) 5775 MHz(802.11ac vht80)
<b>Maximum Average Conducted Output Power:</b>	16.03dBm(5150-5250MHz)
	15.15dBm(5250-5350MHz)
	13.01dBm(5470-5725MHz)
	11.1dBm(5725-5850MHz)
<b>Modulation Type:</b>	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
<b>Rated Input Voltage:</b>	DC 7.6V from Battery or DC 5.0V from Adapter
<b>Serial Number:</b>	AC line conducted emissions and Radiated Spurious Emissions: 2QAA-14 RF Conducted: 2QAA-5
<b>EUT Received Date:</b>	2024/8/22
<b>EUT Received Status:</b>	Good

### 1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
Adapter	Jiangxi Jian Aohai Technology Co.,Ltd	A319-050200U-US2	Input: 100-240Vac 50/60Hz Max 0.3A Output: 5.0Vdc 2000mA

**1.3 Antenna Information Detail ▲**

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Shenzhen Bogesi Communication Technology Co.,Ltd	FPC	50	5.15~5.25GHz	4.37dBi
			5.25~5.35 GHz	3.63dBi
			5.47~5.725 GHz	3.47dBi
			5.725~5.85 GHz	2.58dBi
<b>The design of compliance with §15.203:</b>				
<input checked="" type="checkbox"/> Unit uses a permanently attached antenna.				
<input type="checkbox"/> Unit uses a unique coupling to the intentional radiator.				
<input type="checkbox"/> Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.				

**1.4 Equipment Modifications**

No modifications are made to the EUT during all test items.

## 2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant
Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested. Note 2: For Radiated Spurious Emissions 9kHz~ 1GHz, the maximum output power mode and channel was tested.		

### 3. DESCRIPTION OF TEST CONFIGURATION

#### 3.1 Operation Frequency Detail

**For 802.11a/n ht20/ac vht20:**

5150-5250MHz Band		5250-5350 MHz Band		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	<b>5180</b>	52	<b>5260</b>	100	<b>5500</b>	149	<b>5745</b>
40	<b>5200</b>	56	<b>5280</b>	104	5520	153	5765
44	5220	60	5300	108	5540	157	<b>5785</b>
48	<b>5240</b>	64	<b>5320</b>	112	5560	161	5805
/	/	/	/	116	<b>5580</b>	165	<b>5825</b>
/	/	/	/	120	5600	/	/
/	/	/	/	124	5620	/	/
/	/	/	/	128	5640	/	/
/	/	/	/	132	5660	/	/
/	/	/	/	136	5680	/	/
/	/	/	/	140	<b>5700</b>	/	/
/	/	/	/	144*	<b>5720</b>	/	/

**For 802.11n ht40/ac vht40:**

5150-5250MHz		5250-5350 MHz		5470-5725 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	<b>5190</b>	54	<b>5270</b>	102	<b>5510</b>	151	<b>5755</b>
46	<b>5230</b>	62	<b>5310</b>	110	<b>5550</b>	159	<b>5795</b>
/	/	/	/	118	5590	/	/
/	/	/	/	126	5630	/	/
/	/	/	/	134	<b>5670</b>	/	/
/	/	/	/	142*	<b>5710</b>	/	/

**For 802.11ac vht80:**

5150-5250MHz		5250-5350 MHz		5470-5725 MHz		5725-5850MHz	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	<b>5210</b>	58	<b>5290</b>	106	<b>5530</b>	155	<b>5775</b>
/	/	/	/	122	<b>5610</b>	/	/
/	/	/	/	138*	<b>5690</b>	/	/

Note: Additional channels cross the band 5470-5725MHz and 5725-5850 MHz, Conducted output power/ Power Spectral Density/bandwidth test with the additional channel to compliance with stricter limit of the two bands(5470-5725MHz more stricter).



### 3.2 EUT Operation Condition

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

The EUT configuration is below:

EUT Exercise Software: QRCT3				
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲:				
5150-5250 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	20
	Middle	5200	6Mbps	20
	Highest	5240	6Mbps	20
802.11n ht20	Lowest	5180	MCS0	19.5
	Middle	5200	MCS0	19.5
	Highest	5240	MCS0	19.5
802.11n ht40	Lowest	5190	MCS0	15
	Highest	5230	MCS0	15
802.11ac vht80	Middle	5210	MCS0	16
5250-5350 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5260	6Mbps	17.5
	Middle	5280	6Mbps	17.5
	Highest	5320	6Mbps	17.5
802.11n ht20	Lowest	5260	MCS0	16.5
	Middle	5280	MCS0	16.5
	Highest	5320	MCS0	16.5
802.11n ht40	Lowest	5270	MCS0	10.5
	Highest	5310	MCS0	10.5
802.11ac vht80	Middle	5290	MCS0	10

5470-5725 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5500	6Mbps	14.5
	Middle	5580	6Mbps	14.5
	Highest	5700	6Mbps	14.5
	Cross	5720	6Mbps	14.5
802.11n ht20	Lowest	5500	MCS0	14
	Middle	5580	MCS0	14
	Highest	5700	MCS0	14
	Cross	5720	MCS0	14
802.11n ht40	Lowest	5510	MCS0	11.5
	Middle	5550	MCS0	11.5
	Highest	5670	MCS0	11.5
	Cross	5710	MCS0	11.5
802.11ac vht80	Lowest	5530	MCS0	11
	Highest	5610	MCS0	11
	Cross	5690	MCS0	11
5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	18
	Middle	5785	6Mbps	18
	Highest	5825	6Mbps	18
802.11n ht20	Lowest	5745	MCS0	18
	Middle	5785	MCS0	18
	Highest	5825	MCS0	18
802.11n ht40	Lowest	5755	MCS0	17
	Highest	5795	MCS0	17
802.11ac vht80	Middle	5775	MCS0	17
Note: 1. The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40. 2. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.				

### 3.3 Support Equipment List and Details

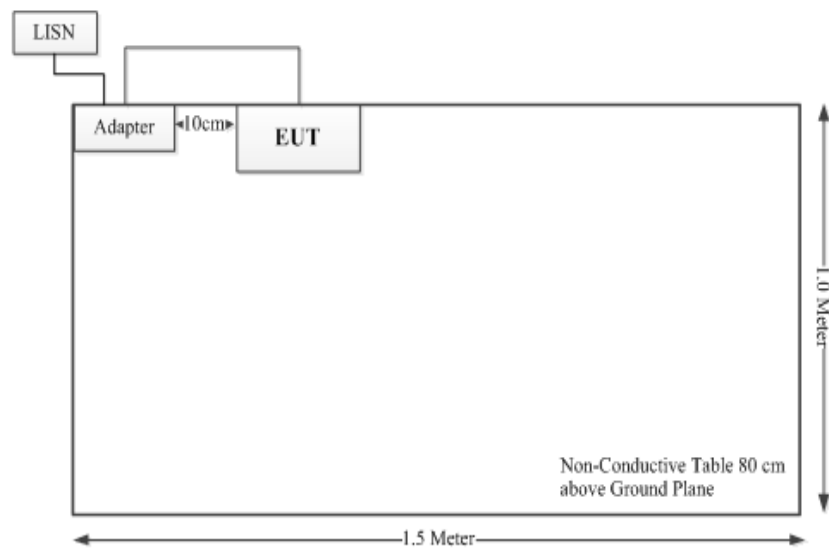
Manufacturer	Description	Model	Serial Number
/	/	/	/

### 3.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	no	no	1.2	Adapter	EUT

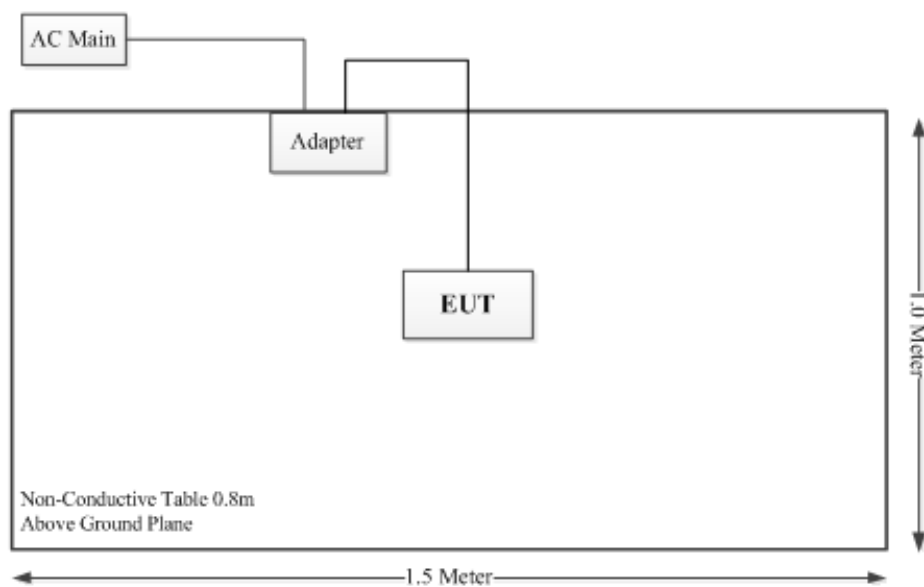
### 3.5 Block Diagram of Test Setup

AC line conducted emissions:

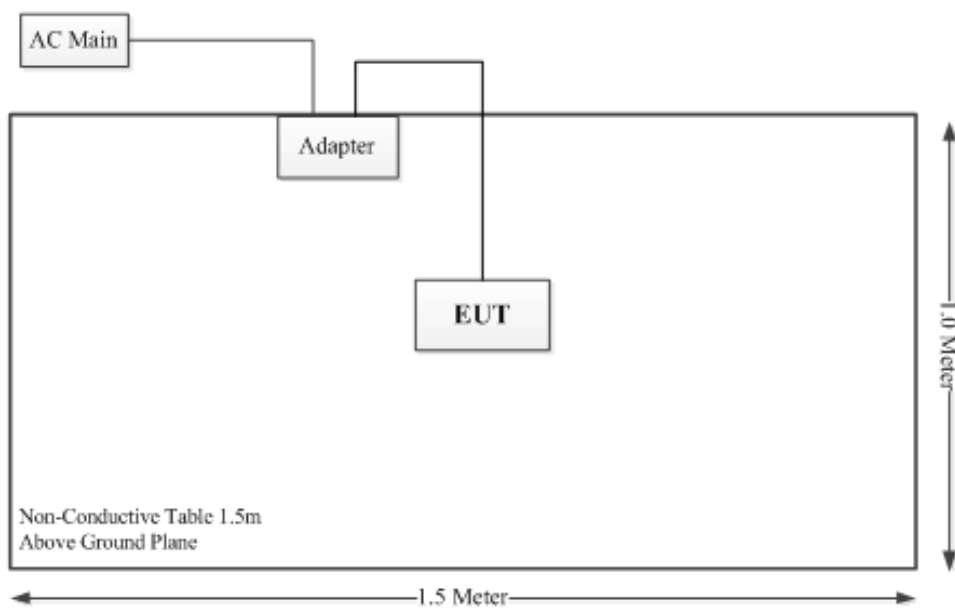


Spurious Emissions:

Below 1GHz:



Above 1GHz:



### 3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

### 3.7 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.3dB, 30MHz~200MHz: 4.55 dB, 200MHz~1GHz: 5.92 dB, 1GHz~6GHz: 4.98 dB, 6GHz~18GHz: 5.89 dB, 18GHz~26.5GHz:5.47 dB, 26.5GHz~40GHz:5.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.11 dB (150 kHz to 30 MHz)

## 4. REQUIREMENTS AND TEST PROCEDURES

### 4.1 AC Line Conducted Emissions

#### 4.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

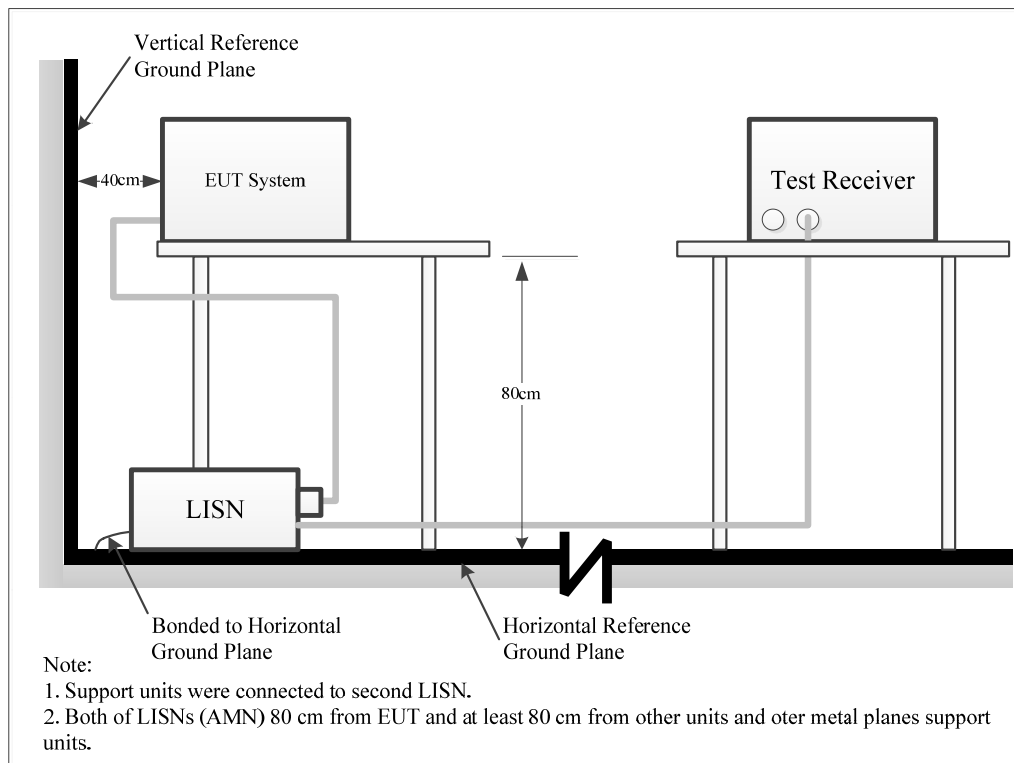
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

### 4.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

### 4.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

#### 4.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

#### 4.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

#### 4.1.6 Test Result

Please refer to section 5.1.



## 4.2 Radiation Spurious Emissions

### 4.2.1 Applicable Standard

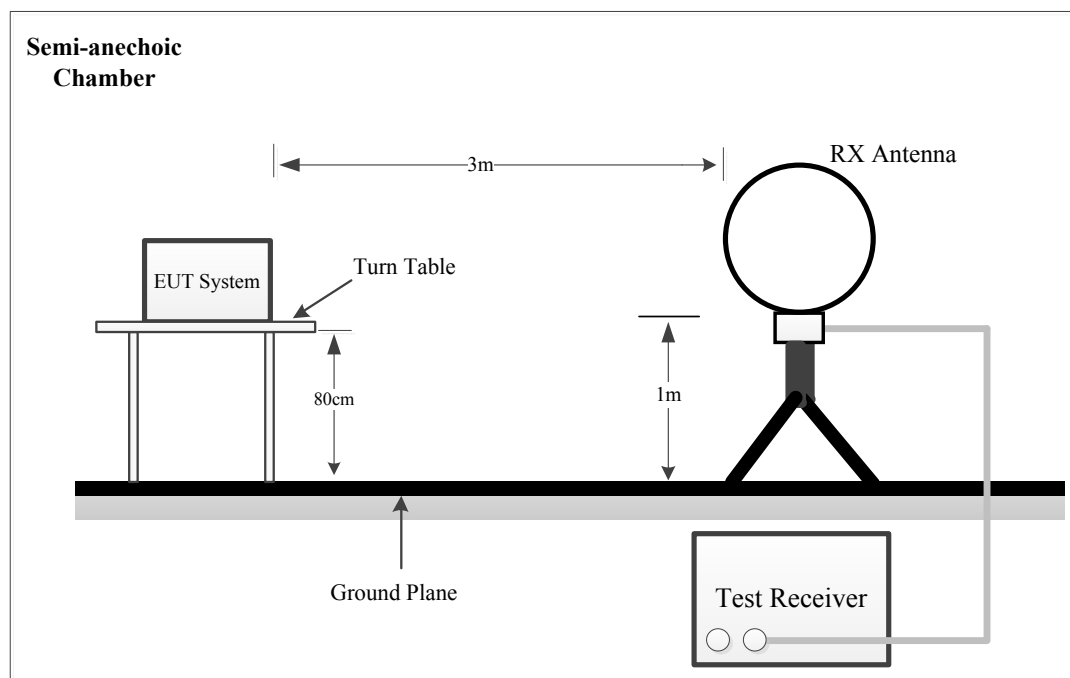
FCC §15.407 (b);

*Undesirable emission limits.* Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

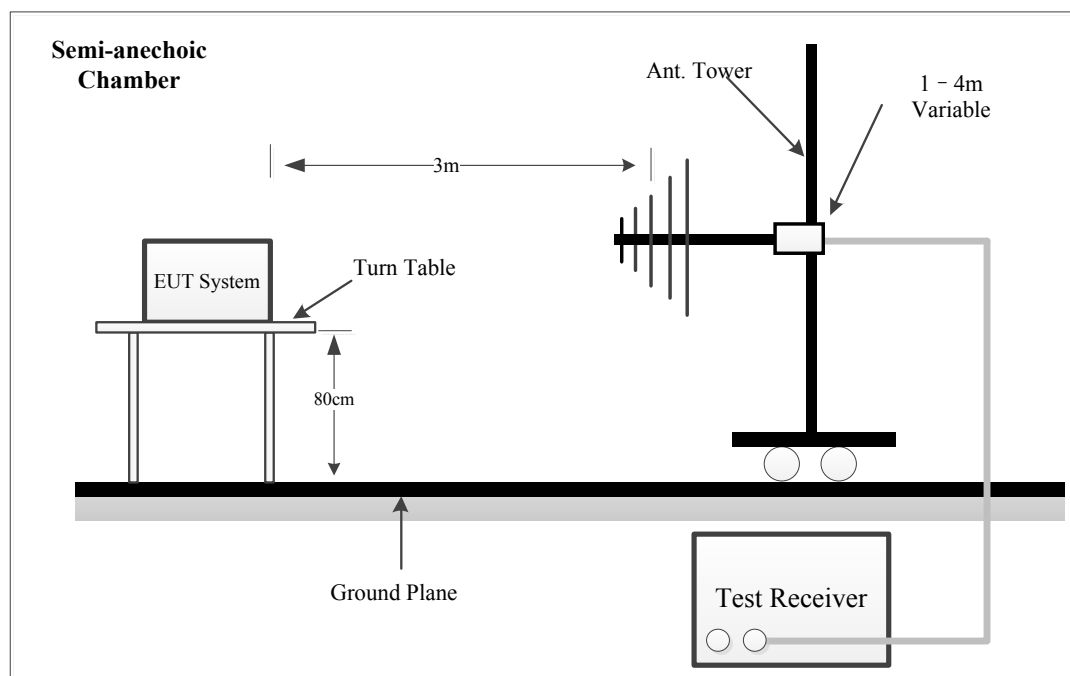
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (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 solely in the 5.725-5.850 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.
- (8) 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.
- (9) 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.
- (10) The provisions of § 15.205 apply to intentional radiators operating under this section.
- (11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
- (c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

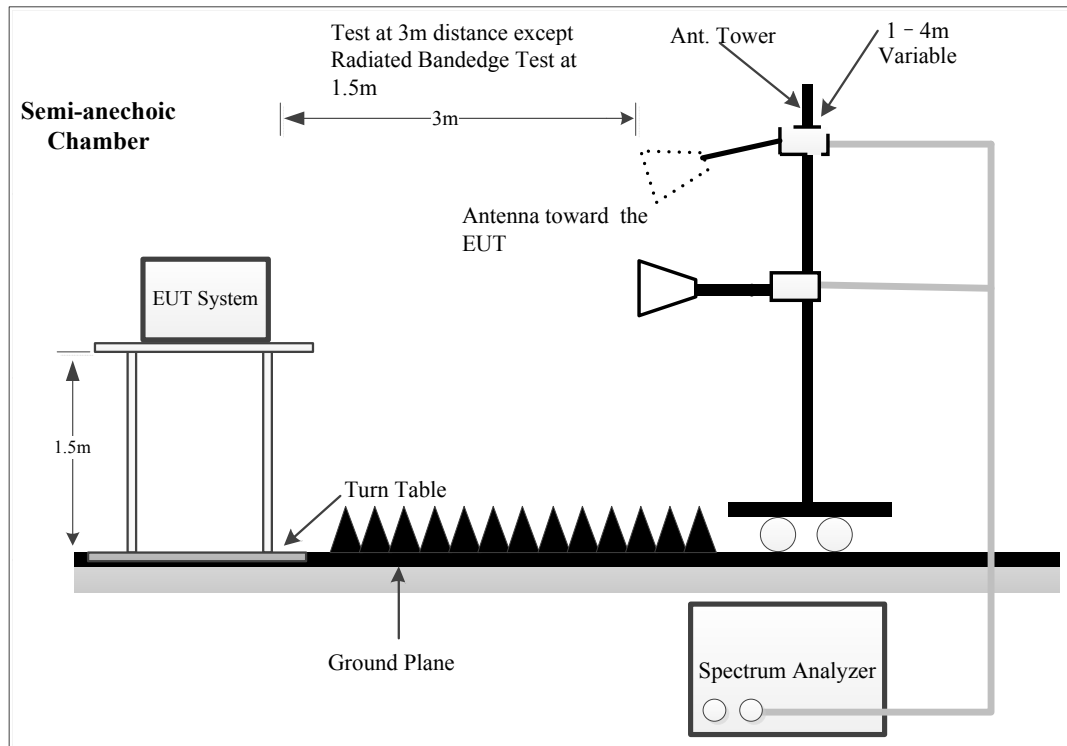
#### 4.2.2 EUT Setup

9kHz~30MHz:



30MHz~1GHz:



**Above 1GHz:**

The radiated emission tests were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

#### 4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W
9 kHz – 150 kHz	QP/AV	200 Hz	1 kHz	200 Hz
150 kHz – 30 MHz	QP/AV	9 kHz	30 kHz	9 kHz
30 MHz – 1000 MHz	PK	100 kHz	300 kHz	/
	QP	/	/	120 kHz

1GHz- 40GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	$\geq 1/T$

Note: T is minimum transmission duration

If the maximized peak measured value is under the QP limit by more than 6dB, then it is unnecessary to perform an QP measurement.

If the maximized peak measured value is under the average limit, then it is unnecessary to perform an QP measurement.

#### 4.2.4 Test Procedure

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz -1 GHz, except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as:  $E [dB\mu V/m] = EIRP[dBm] + 95.2$ , for  $d = 3$  meters.

For Radiated Bandedge test, which was performed at 1.5 m distance, according to C63.10, the test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor =  $20 \log (\text{specific distance } [3m]/\text{test distance } [1.5m])$  dB= 6.0 dB

#### 4.2.5 Test Result

Please refer to section 5.2.

## 4.3 Emission Bandwidth

### 4.3.1 Applicable Standard

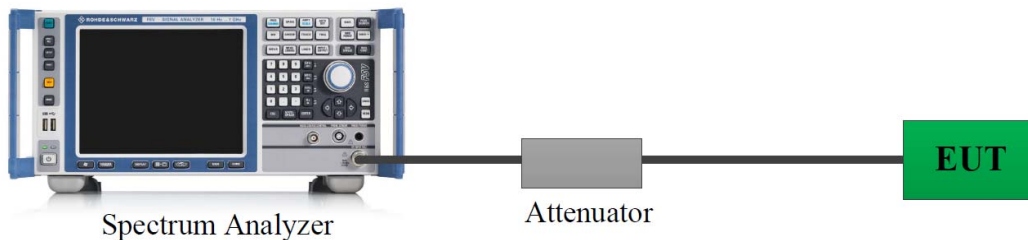
FCC §15.407 (a),(h)

(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 4.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer.

### 4.3.3 Test Procedure

#### 26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max hold
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3$  RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

**99% Occupied Bandwidth:**

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) 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.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. 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% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

**4.3.4 Test Result**

Please refer to section 5.3 and section 5.4.

## 4.4 Maximum Conducted Output Power

### 4.4.1 Applicable Standard

#### FCC §15.407(a) (1)(iv)

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

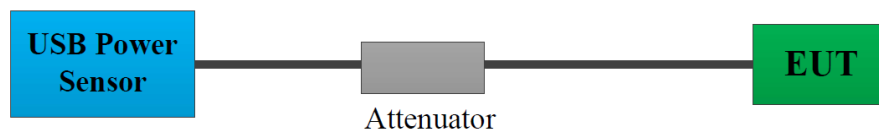
#### FCC §15.407(a) (2)

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.

#### FCC §15.407(a) (3)(i)

For the band 5.725-5.850 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.

### 4.4.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The cable loss of this RF cable was offset into the setting of test equipment, which was provided by manufacturer ▲.

### 4.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1

Method PM-G is measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 4.4.4 Test Result

Please refer to section 5.5.

## 4.5 Maximum Power Spectral Density

### 4.5.1 Applicable Standard

#### FCC §15.407(a) (1)(iv)

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

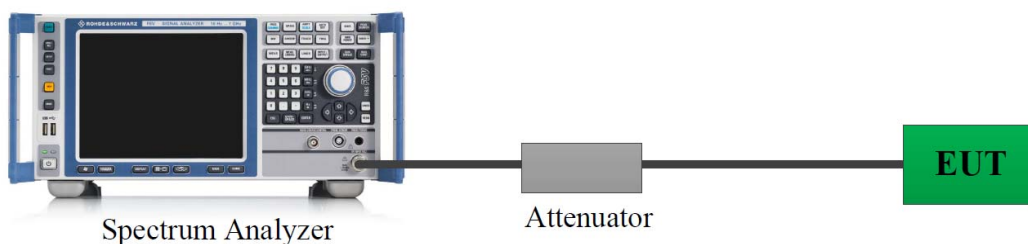
#### FCC §15.407(a) (2)

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.

#### FCC §15.407(a) (3)(i)

For the band 5.725-5.850 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.

### 4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer. The cable loss of this RF cable was offset into the setting of test equipment, which was provided by manufacturer ▲.

### 4.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

**Duty cycle  $\geq 98\%$**

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.



**Duty cycle <98%, duty cycle variations are less than  $\pm 2\%$**

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

**Duty cycle <98%, duty cycle variations exceed  $\pm 2\%$**

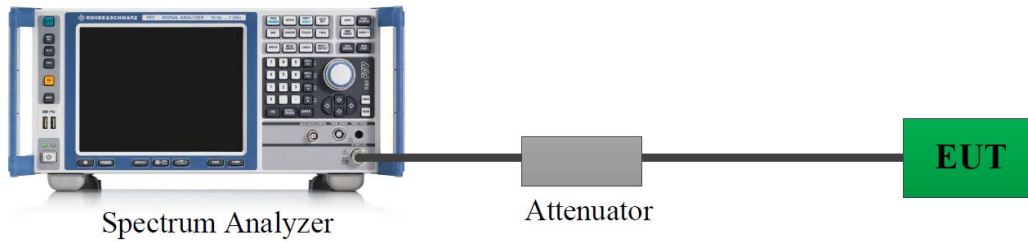
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

#### **4.5.4 Test Result**

Please refer to section 5.6.

## 4.6 Duty Cycle

### 4.6.1 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, which was provided by manufacturer.

### 4.6.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set  $RBW \geq OBW$  if possible; otherwise, set RBW to the largest available value.
- 3) Set  $VBW \geq RBW$ . Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$  and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if  $T \leq 16.7 \mu s$ .)

### 4.6.3 Judgment

Report Only. Please refer to section 5.7.

## **4.7 Antenna Requirement**

### **4.7.1 Applicable Standard**

FCC §15.203

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### **4.7.2 Judgment**

**Compliant.** Please refer to the Antenna Information detail in Section 1.3.

## 5. Test DATA AND RESULTS

### 5.1 AC Line Conducted Emissions

Serial Number:	2QAAQ-14	Test Date:	2024/9/1
Test Site:	CE	Test Mode:	Transmitting
Tester:	Lane Sun	Test Result:	Pass

#### Environmental Conditions:

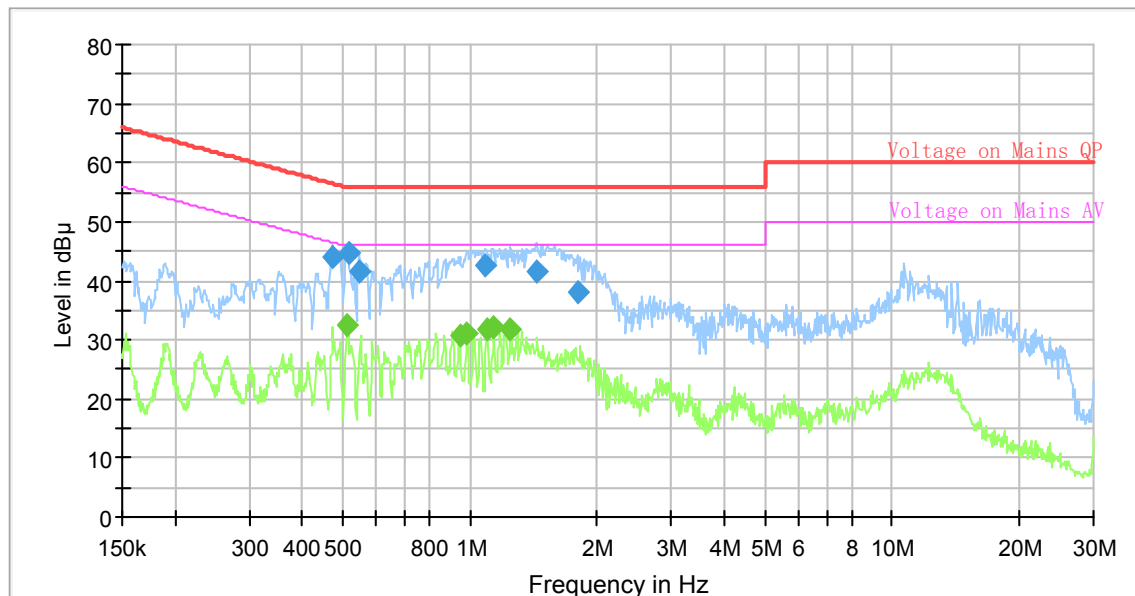
Temperature: (°C)	23.8	Relative Humidity: (%)	68	ATM Pressure: (kPa)	100.9
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#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2023/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2023/9/7	2024/9/6
R&S	EMI Test Receiver	ESCI	100035	2024/8/18	2025/8/17
R&S	Test Software	EMC32	V9.10.00	N/A	N/A

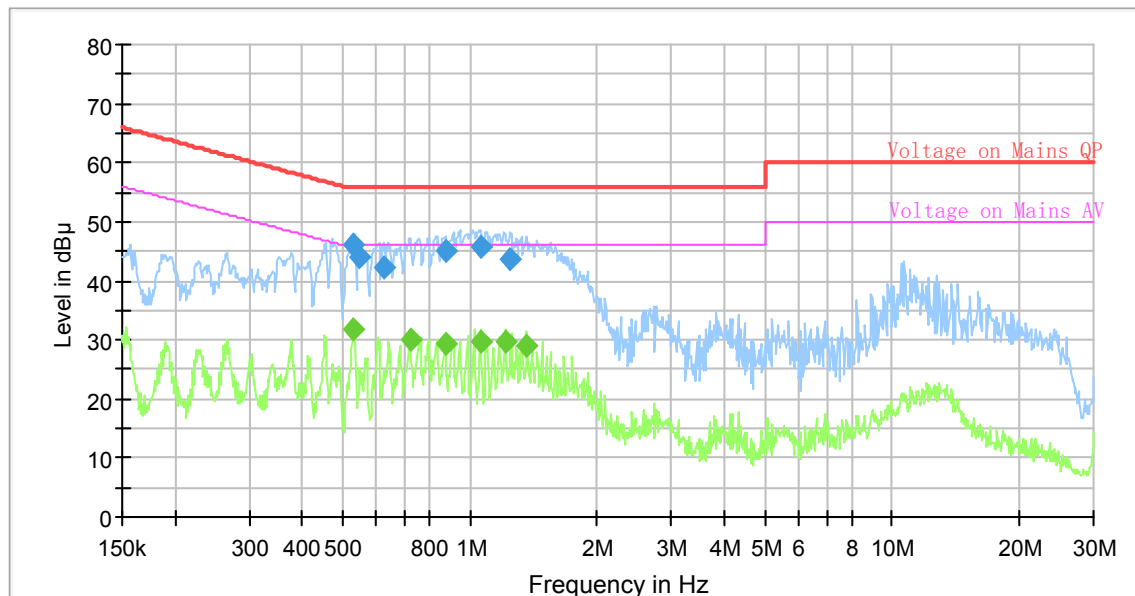
\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No: 2402W90636E-RF  
Test Engineer: Lane Sun  
Test Date: 2024-9-1  
Port: L  
Test Mode: Transmitting  
Power Source: AC 120V/60Hz  
Note: 802.11a 5240MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.470023	43.92	---	56.51	12.59	9.000	L1	10.8
0.511614	---	32.63	46.00	13.37	9.000	L1	10.8
0.514172	44.55	---	56.00	11.45	9.000	L1	10.8
0.545885	41.56	---	56.00	14.44	9.000	L1	10.8
0.949586	---	30.59	46.00	15.41	9.000	L1	10.9
0.983324	---	31.22	46.00	14.78	9.000	L1	10.9
1.091902	42.50	---	56.00	13.50	9.000	L1	10.8
1.097362	---	31.79	46.00	14.21	9.000	L1	10.8
1.136351	---	32.16	46.00	13.84	9.000	L1	10.8
1.249302	---	31.80	46.00	14.20	9.000	L1	10.8
1.436538	41.59	---	56.00	14.41	9.000	L1	10.8
1.798001	38.09	---	56.00	17.91	9.000	L1	10.8

Project No: 2402W90636E-RF  
Test Engineer: Lane Sun  
Test Date: 2024-9-1  
Port: N  
Test Mode: Transmitting  
Power Source: AC 120V/60Hz  
Note: 802.11a 5240MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.529791	45.94	---	56.00	10.06	9.000	N	10.7
0.529791	---	31.80	46.00	14.20	9.000	N	10.7
0.545885	43.99	---	56.00	12.01	9.000	N	10.7
0.624575	42.26	---	56.00	13.74	9.000	N	10.7
0.721773	---	30.02	46.00	15.98	9.000	N	10.8
0.872391	---	29.32	46.00	16.68	9.000	N	10.8
0.872391	45.10	---	56.00	10.90	9.000	N	10.8
1.059711	45.71	---	56.00	10.29	9.000	N	10.9
1.059711	---	29.72	46.00	16.28	9.000	N	10.9
1.212470	---	29.56	46.00	16.44	9.000	N	10.9
1.249302	43.64	---	56.00	12.36	9.000	N	10.9
1.366648	---	28.84	46.00	17.16	9.000	N	10.9

## 5.2 Radiation Spurious Emissions

### 1) 9kHz - 1GHz

Serial Number:	2QAQ-14	Test Date:	2024/8/26
Test Site:	Chamber A	Test Mode:	Transmitting
Tester:	Jayce Wang	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C)	28.1	Relative Humidity: (%)	39	ATM Pressure: (kPa)	100.1
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#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/21	2026/10/20
Sunol Sciences	Hybrid Antenna	JB3	A060611-3	2024/1/12	2027/1/11
Wilson	Coaxial Attenuator	859936	F-08-EM014	2024/1/12	2027/1/11
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2024/7/1	2025/6/30
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2024/7/1	2025/6/30
Sonoma	Amplifier	310N	372193	2024/7/1	2025/6/30
R&S	EMI Test Receiver	ESR3	102453	2024/8/18	2025/8/17
Audix	Test Software	E3	191218 V9	N/A	N/A

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

#### Test Data:

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to table and plots.

**9kHz~30MHz**

The 802.11a 5240MHz was tested. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.



## 30MHz-1GHz

Project No.: 2402W90636E-RF

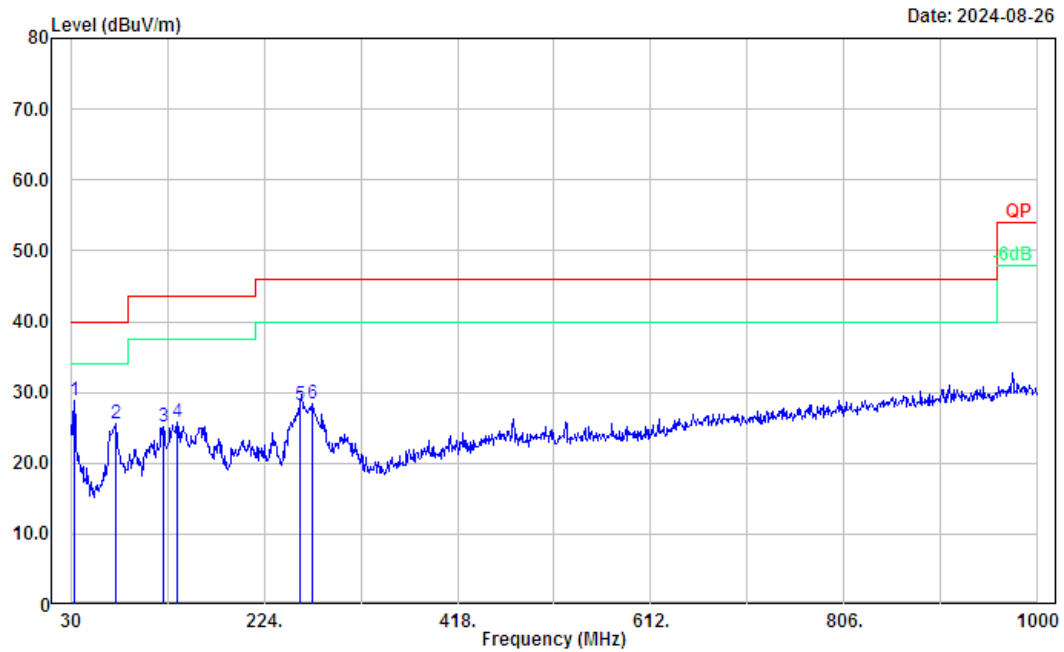
Serial No.: 2QAQ-14

Polarization: Horizontal

Tester: Jayce Wang

Test Mode: Transmitting

Note: 802.11a\_U-NII-1 high channel 5240MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	33.88	34.34	-5.61	28.73	40.00	11.27	Peak
2	74.62	41.56	-15.98	25.58	40.00	14.42	Peak
3	123.12	35.07	-10.02	25.05	43.50	18.45	Peak
4	136.70	35.76	-9.99	25.77	43.50	17.73	Peak
5	259.89	38.71	-10.56	28.15	46.00	17.85	Peak
6	272.50	38.39	-9.99	28.40	46.00	17.60	Peak

Project No.: 2402W90636E-RF

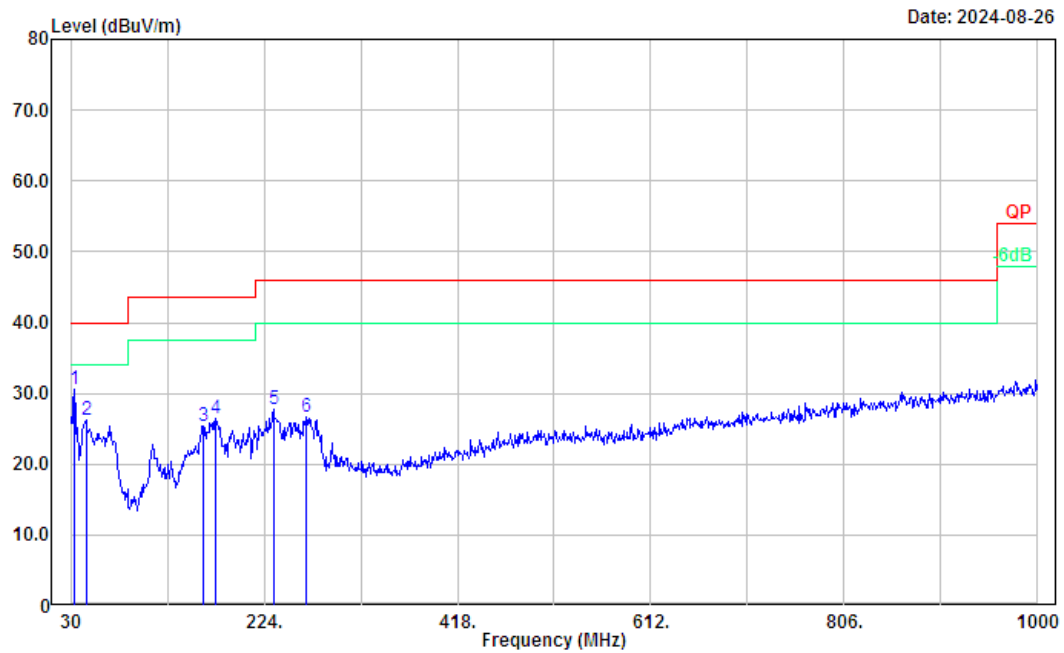
Serial No.: 20AQ-14

Polarization: Vertical

Tester: Jayce Wang

Test Mode: Transmitting

Note: 802.11a\_U-NII-1 high channel 5240MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	33.88	36.11	-5.61	30.50	40.00	9.50	Peak
2	45.52	39.67	-13.41	26.26	40.00	13.74	Peak
3	162.89	36.59	-11.22	25.37	43.50	18.13	Peak
4	175.50	38.27	-11.83	26.44	43.50	17.06	Peak
5	233.70	38.54	-10.90	27.64	46.00	18.36	Peak
6	265.71	36.89	-10.18	26.71	46.00	19.29	Peak

**2) 1-40GHz:**

Serial Number:	2QAQ-14	Test Date:	2024/8/28
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Nat Zhou	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.9	Relative Humidity: %	32	ATM Pressure: (kPa)	99.8
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-02 1304	2023/2/22	2026/2/21
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	2023/2/22	2026/2/21
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2023/11/17	2024/11/16
Xinhang Macrowave	Coaxial Cable	XH360A-2.92/J-2.92/J-6M-A	20231208001 #0001	2023/12/11	2024/12/10
AH	Preamplifier	PAM-0118P	469	2024/4/15	2025/4/15
AH	Preamplifier	PAM-1840VH	191	2023/9/7	2024/9/6
R&S	FSV40	FSV40	101944	2023/10/18	2024/10/17
Audix	Test Software	E3	191218 (V9)	N/A	N/A
Sinoscite	Band Rejection Filter	BSF5150-5850MN	0899003	2024/2/21	2025/2/20
Mini-Circuits	High Pass Filter	VHF-6010+	31118	2023/12/1	2024/11/30
Mini-Circuits	High Pass Filter	VHF-7150+	31023	2024/6/4	2025/6/3

*\* Statement of Traceability: Bay Area Compliance Laboratories Corp.(Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

**802.11a\_U-NII-1**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5180</b>	<b>MHz</b>		
5150.00	32.40	PK	H	34.76	61.16	74.00	12.84
5150.00	21.11	AV	H	34.76	49.87	54.00	4.13
5150.00	33.04	PK	V	34.76	61.80	74.00	12.20
5150.00	21.75	AV	V	34.76	50.51	54.00	3.49
10360.00	48.85	PK	H	0.33	49.18	68.20	19.02
10360.00	48.87	PK	V	0.33	49.20	68.20	19.00
15540.00	48.75	PK	H	0.6	49.35	74.00	24.65
15540.00	37.60	AV	H	0.6	38.20	54.00	15.80
15540.00	48.55	PK	V	0.6	49.15	74.00	24.85
15540.00	37.57	AV	V	0.6	38.17	54.00	15.83
6906.70	54.78	PK	H	-6.57	48.21	68.20	19.99
6906.70	57.73	PK	V	-6.57	51.16	68.20	17.04
<b>middle channel</b>				<b>5200</b>	<b>MHz</b>		
10400.00	48.13	PK	H	0.4	48.53	68.20	19.67
10400.00	48.21	PK	V	0.4	48.61	68.20	19.59
15600.00	48.26	PK	H	0.58	48.84	74.00	25.16
15600.00	37.18	AV	H	0.58	37.76	54.00	16.24
15600.00	48.78	PK	V	0.58	49.36	74.00	24.64
15600.00	37.70	AV	V	0.58	38.28	54.00	15.72
6932.70	52.72	PK	H	-6.52	46.20	68.20	22.00
6932.70	56.44	PK	V	-6.52	49.92	68.20	18.28
<b>high channel</b>				<b>5240</b>	<b>MHz</b>		
5350.00	29.29	PK	H	35.15	58.44	74.00	15.56
5350.00	18.22	AV	H	35.15	47.37	54.00	6.63
5350.00	29.54	PK	V	35.15	58.69	74.00	15.31
5350.00	18.50	AV	V	35.15	47.65	54.00	6.35
10480.00	49.10	PK	H	0.56	49.66	68.20	18.54
10480.00	47.63	PK	V	0.56	48.19	68.20	20.01
15720.00	48.46	PK	H	0.55	49.01	74.00	24.99
15720.00	37.31	AV	H	0.55	37.86	54.00	16.14
15720.00	49.70	PK	V	0.55	50.25	74.00	23.75
15720.00	38.87	AV	V	0.55	39.42	54.00	<b>14.58</b>
6987.30	52.21	PK	H	-6.42	45.79	68.20	22.41
6987.30	55.28	PK	V	-6.42	48.86	68.20	19.34

**802.11n20 U-NII-1**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5180</b>	<b>MHz</b>		
5150.00	30.85	PK	H	34.76	59.61	74.00	14.39
5150.00	20.50	AV	H	34.76	49.26	54.00	4.74
5150.00	31.61	PK	V	34.76	60.37	74.00	13.63
5150.00	21.09	AV	V	34.76	49.85	54.00	4.15
10360.00	48.32	PK	H	0.33	48.65	68.20	19.55
10360.00	47.89	PK	V	0.33	48.22	68.20	19.98
15540.00	47.86	PK	H	0.6	48.46	74.00	25.54
15540.00	36.97	AV	H	0.6	37.57	54.00	16.43
15540.00	48.70	PK	V	0.6	49.30	74.00	24.70
15540.00	37.74	AV	V	0.6	38.34	54.00	15.66
6906.70	51.82	PK	H	-6.57	45.25	68.20	22.95
6906.70	55.97	PK	V	-6.57	49.40	68.20	18.80
<b>middle channel</b>				<b>5200</b>	<b>MHz</b>		
10400.00	47.68	PK	H	0.4	48.08	68.20	20.12
10400.00	47.77	PK	V	0.4	48.17	68.20	20.03
15600.00	47.55	PK	H	0.58	48.13	74.00	25.87
15600.00	36.63	AV	H	0.58	37.21	54.00	16.79
15600.00	48.25	PK	V	0.58	48.83	74.00	25.17
15600.00	37.31	AV	V	0.58	37.89	54.00	16.11
6932.70	51.71	PK	H	-6.52	45.19	68.20	23.01
6932.70	54.44	PK	V	-6.52	47.92	68.20	20.28
<b>high channel</b>				<b>5240</b>	<b>MHz</b>		
5350.00	29.10	PK	H	35.15	58.25	74.00	15.75
5350.00	18.16	AV	H	35.15	47.31	54.00	6.69
5350.00	29.43	PK	V	35.15	58.58	74.00	15.42
5350.00	18.34	AV	V	35.15	47.49	54.00	6.51
10480.00	47.32	PK	H	0.56	47.88	68.20	20.32
10480.00	48.84	PK	V	0.56	49.40	68.20	18.80
15720.00	48.26	PK	H	0.55	48.81	74.00	25.19
15720.00	37.38	AV	H	0.55	37.93	54.00	16.07
15720.00	47.70	PK	V	0.55	48.25	74.00	25.75
15720.00	36.73	AV	V	0.55	37.28	54.00	16.72
6987.30	51.65	PK	H	-6.42	45.23	68.20	22.97
6987.30	55.60	PK	V	-6.42	49.18	68.20	19.02

**802.11n40 U-NII-1**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5190</b>	<b>MHz</b>		
5150.00	32.63	PK	H	34.76	61.39	74.00	12.61
5150.00	22.11	AV	H	34.76	50.87	54.00	3.13
5150.00	33.16	PK	V	34.76	61.92	74.00	12.08
5150.00	23.00	AV	V	34.76	51.76	54.00	2.24
10380.00	47.59	PK	H	0.37	47.96	68.20	20.24
10380.00	48.77	PK	V	0.37	49.14	68.20	19.06
15570.00	47.35	PK	H	0.59	47.94	74.00	26.06
15570.00	36.42	AV	H	0.59	37.01	54.00	16.99
15570.00	49.61	PK	V	0.59	50.20	74.00	23.80
15570.00	38.72	AV	V	0.59	39.31	54.00	14.69
6919.70	50.19	PK	H	-6.54	43.65	68.20	24.55
6919.70	56.64	PK	V	-6.54	50.10	68.20	18.10
<b>high channel</b>				<b>5230</b>	<b>MHz</b>		
5350.00	29.47	PK	H	35.15	58.62	74.00	15.38
5350.00	18.43	AV	H	35.15	47.58	54.00	6.42
5350.00	29.89	PK	V	35.15	59.04	74.00	14.96
5350.00	18.62	AV	V	35.15	47.77	54.00	6.23
10460.00	48.27	PK	H	0.51	48.78	68.20	19.42
10460.00	47.76	PK	V	0.51	48.27	68.20	19.93
15690.00	48.42	PK	H	0.56	48.98	74.00	25.02
15690.00	37.56	AV	H	0.56	38.12	54.00	15.88
15690.00	48.56	PK	V	0.56	49.12	74.00	24.88
15690.00	37.64	AV	V	0.56	38.20	54.00	15.80
6974.30	53.71	PK	H	-6.44	47.27	68.20	20.93
6974.30	57.13	PK	V	-6.44	50.69	68.20	17.51

**802.11ac80 U-NII-1**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>middle channel</b>				<b>5210</b>	<b>MHz</b>		
5150.00	31.91	PK	H	34.76	60.67	74.00	13.33
5150.00	21.77	AV	H	34.76	50.53	54.00	3.47
5150.00	32.55	PK	V	34.76	61.31	74.00	12.69
5150.00	22.11	AV	V	34.76	50.87	54.00	3.13
5350.00	30.09	PK	H	35.15	59.24	74.00	14.76
5350.00	18.48	AV	H	35.15	47.63	54.00	6.37
5350.00	29.91	PK	V	35.15	59.06	74.00	14.94
5350.00	18.79	AV	V	35.15	47.94	54.00	6.06
10420.00	49.32	PK	H	0.43	49.75	68.20	18.45
10420.00	48.25	PK	V	0.43	48.68	68.20	19.52
15630.00	48.77	PK	H	0.57	49.34	74.00	24.66
15630.00	37.83	AV	H	0.57	38.40	54.00	15.60
15630.00	48.30	PK	V	0.57	48.87	74.00	25.13
15630.00	37.41	AV	V	0.57	37.98	54.00	16.02
6945.70	53.34	PK	H	-6.5	46.84	68.20	21.36
6945.70	57.37	PK	V	-6.5	50.87	68.20	17.33

**802.11a U-NII-2A**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5260</b>	<b>MHz</b>		
5150.00	29.41	PK	H	34.76	58.17	74.00	15.83
5150.00	19.10	AV	H	34.76	47.86	54.00	6.14
5150.00	29.52	PK	V	34.76	58.28	74.00	15.72
5150.00	19.17	AV	V	34.76	47.93	54.00	6.07
10520.00	48.90	PK	H	0.6	49.50	68.20	18.70
10520.00	48.64	PK	V	0.6	49.24	68.20	18.96
15780.00	48.33	PK	H	0.55	48.88	74.00	25.12
15780.00	37.47	AV	H	0.55	38.02	54.00	15.98
15780.00	47.93	PK	V	0.55	48.48	74.00	25.52
15780.00	37.02	AV	V	0.55	37.57	54.00	16.43
7013.30	51.60	PK	H	-6.33	45.27	68.20	22.93
7013.30	54.00	PK	V	-6.33	47.67	68.20	20.53
<b>middle channel</b>				<b>5280</b>	<b>MHz</b>		
10560.00	48.63	PK	H	0.61	49.24	68.20	18.96
10560.00	48.37	PK	V	0.61	48.98	68.20	19.22
15840.00	47.89	PK	H	0.54	48.43	74.00	25.57
15840.00	36.99	AV	H	0.54	37.53	54.00	16.47
15840.00	48.42	PK	V	0.54	48.96	74.00	25.04
15840.00	37.51	AV	V	0.54	38.05	54.00	15.95
7039.30	51.25	PK	H	-6.23	45.02	68.20	23.18
7039.30	54.97	PK	V	-6.23	48.74	68.20	19.46
<b>high channel</b>				<b>5320</b>	<b>MHz</b>		
5350.00	30.73	PK	H	35.15	59.88	74.00	14.12
5350.00	20.97	AV	H	35.15	50.12	54.00	3.88
5350.00	34.05	PK	V	35.15	63.20	74.00	10.80
5350.00	22.72	AV	V	35.15	51.87	54.00	2.13
10640.00	48.87	PK	H	0.62	49.49	74.00	24.51
10640.00	37.96	AV	H	0.62	38.58	54.00	15.42
10640.00	49.05	PK	V	0.62	49.67	74.00	24.33
10640.00	38.19	AV	V	0.62	38.81	54.00	<b>15.19</b>
15960.00	47.80	PK	H	0.5	48.30	74.00	25.70
15960.00	36.93	AV	H	0.5	37.43	54.00	16.57
15960.00	48.35	PK	V	0.5	48.85	74.00	25.15
15960.00	37.44	AV	V	0.5	37.94	54.00	16.06
7093.90	50.46	PK	H	-5.98	44.48	68.20	23.72
7093.90	55.26	PK	V	-5.98	49.28	68.20	18.92

**802.11n20 U-NII-2A**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5260</b>	<b>MHz</b>		
5150.00	29.73	PK	H	34.76	58.49	74.00	15.51
5150.00	18.69	AV	H	34.76	47.45	54.00	6.55
5150.00	29.79	PK	V	34.76	58.55	74.00	15.45
5150.00	18.88	AV	V	34.76	47.64	54.00	6.36
10520.00	49.41	PK	H	0.6	50.01	68.20	18.19
10520.00	47.84	PK	V	0.6	48.44	68.20	19.76
15780.00	49.11	PK	H	0.55	49.66	74.00	24.34
15780.00	38.23	AV	H	0.55	38.78	54.00	15.22
15780.00	48.60	PK	V	0.55	49.15	74.00	24.85
15780.00	37.77	AV	V	0.55	38.32	54.00	15.68
7013.30	52.15	PK	H	-6.33	45.82	68.20	22.38
7013.30	55.72	PK	V	-6.33	49.39	68.20	18.81
<b>middle channel</b>				<b>5280</b>	<b>MHz</b>		
10560.00	48.48	PK	H	0.61	49.09	68.20	19.11
10560.00	48.28	PK	V	0.61	48.89	68.20	19.31
15840.00	47.80	PK	H	0.54	48.34	74.00	25.66
15840.00	36.98	AV	H	0.54	37.52	54.00	16.48
15840.00	48.22	PK	V	0.54	48.76	74.00	25.24
15840.00	37.41	AV	V	0.54	37.95	54.00	16.05
7039.30	53.20	PK	H	-6.23	46.97	68.20	21.23
7039.30	54.93	PK	V	-6.23	48.70	68.20	19.50
<b>high channel</b>				<b>5320</b>	<b>MHz</b>		
5350.00	30.97	PK	H	35.15	60.12	74.00	13.88
5350.00	20.22	AV	H	35.15	49.37	54.00	4.63
5350.00	31.63	PK	V	35.15	60.78	74.00	13.22
5350.00	21.87	AV	V	35.15	51.02	54.00	2.98
10640.00	48.41	PK	H	0.62	49.03	74.00	24.97
10640.00	37.55	AV	H	0.62	38.17	54.00	15.83
10640.00	48.20	PK	V	0.62	48.82	74.00	25.18
10640.00	37.36	AV	V	0.62	37.98	54.00	16.02
15960.00	48.23	PK	H	0.5	48.73	74.00	25.27
15960.00	37.39	AV	H	0.5	37.89	54.00	16.11
15960.00	48.17	PK	V	0.5	48.67	74.00	25.33
15960.00	37.25	AV	V	0.5	37.75	54.00	16.25
7093.90	50.46	PK	H	-5.98	44.48	68.20	23.72
7093.90	54.01	PK	V	-5.98	48.03	68.20	20.17



**802.11n40 U-NII-2A**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5270</b>	<b>MHz</b>		
5150.00	29.57	PK	H	34.76	58.33	74.00	15.67
5150.00	18.78	AV	H	34.76	47.54	54.00	6.46
5150.00	29.83	PK	V	34.76	58.59	74.00	15.41
5150.00	18.97	AV	V	34.76	47.73	54.00	6.27
10540.00	48.33	PK	H	0.59	48.92	68.20	19.28
10540.00	48.52	PK	V	0.59	49.11	68.20	19.09
15810.00	49.15	PK	H	0.54	49.69	74.00	24.31
15810.00	38.22	AV	H	0.54	38.76	54.00	15.24
15810.00	48.07	PK	V	0.54	48.61	74.00	25.39
15810.00	37.24	AV	V	0.54	37.78	54.00	16.22
7026.30	52.59	PK	H	-6.28	46.31	68.20	21.89
7026.30	55.88	PK	V	-6.28	49.60	68.20	18.60
<b>high channel</b>				<b>5310</b>	<b>MHz</b>		
5350.00	30.46	PK	H	35.15	59.61	74.00	14.39
5350.00	20.25	AV	H	35.15	49.40	54.00	4.60
5350.00	32.04	PK	V	35.15	61.19	74.00	12.81
5350.00	22.39	AV	V	35.15	51.54	54.00	2.46
10620.00	48.21	PK	H	0.62	48.83	74.00	25.17
10620.00	37.39	AV	H	0.62	38.01	54.00	15.99
10620.00	48.35	PK	V	0.62	48.97	74.00	25.03
10620.00	37.47	AV	V	0.62	38.09	54.00	15.91
15930.00	48.23	PK	H	0.51	48.74	74.00	25.26
15930.00	37.31	AV	H	0.51	37.82	54.00	16.18
15930.00	48.04	PK	V	0.51	48.55	74.00	25.45
15930.00	37.11	AV	V	0.51	37.62	54.00	16.38
7080.90	52.13	PK	H	-6.05	46.08	68.20	22.12
7080.90	55.66	PK	V	-6.05	49.61	68.20	18.59

**802.11ac80 U-NII-2A**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
middle channel				5290	MHz		
5150.00	29.98	PK	H	34.76	58.74	74.00	15.26
5150.00	18.79	AV	H	34.76	47.55	54.00	6.45
5150.00	30.11	PK	V	34.76	58.87	74.00	15.13
5150.00	18.99	AV	V	34.76	47.75	54.00	6.25
5350.00	31.50	PK	H	35.15	60.65	74.00	13.35
5350.00	21.47	AV	H	35.15	50.62	54.00	3.38
5350.00	32.91	PK	V	35.15	62.06	74.00	11.94
5350.00	22.74	AV	V	35.15	51.89	54.00	2.11
10580.00	47.93	PK	H	0.61	48.54	68.20	19.66
10580.00	49.18	PK	V	0.61	49.79	68.20	18.41
15870.00	48.57	PK	H	0.53	49.10	74.00	24.90
15870.00	37.59	AV	H	0.53	38.12	54.00	15.88
15870.00	48.01	PK	V	0.53	48.54	74.00	25.46
15870.00	37.12	AV	V	0.53	37.65	54.00	16.35
7052.30	52.33	PK	H	-6.16	46.17	68.20	22.03
7052.30	56.24	PK	V	-6.16	50.08	68.20	18.12

**802.11a U-NII-2C**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5500</b>	<b>MHz</b>		
5460.00	30.35	PK	H	35.34	59.69	74.00	14.31
5460.00	20.02	AV	H	35.34	49.36	54.00	4.64
5460.00	30.58	PK	V	35.34	59.92	74.00	14.08
5460.00	20.59	AV	V	35.34	49.93	54.00	4.07
5470.00	31.33	PK	H	35.36	60.69	68.20	7.51
5470.00	32.21	PK	V	35.36	61.57	68.20	6.63
11000.00	51.46	PK	H	0.72	52.18	74.00	21.82
11000.00	39.10	AV	H	0.72	39.82	54.00	<b>14.18</b>
11000.00	50.09	PK	V	0.72	50.81	74.00	23.19
11000.00	38.41	AV	V	0.72	39.13	54.00	14.87
16500.00	48.46	PK	H	1.1	49.56	68.20	18.64
16500.00	48.05	PK	V	1.1	49.15	68.20	19.05
<b>middle channel</b>				<b>5580</b>	<b>MHz</b>		
11160.00	48.79	PK	H	1	49.79	74.00	24.21
11160.00	37.78	AV	H	1	38.78	54.00	15.22
11160.00	47.76	PK	V	1	48.76	74.00	25.24
11160.00	36.78	AV	V	1	37.78	54.00	16.22
16740.00	47.90	PK	H	2.42	50.32	68.20	17.88
16740.00	47.21	PK	V	2.42	49.63	68.20	18.57
<b>high channel</b>				<b>5700</b>	<b>MHz</b>		
5725.00	32.46	PK	H	35.81	62.27	68.20	5.93
5725.00	32.86	PK	V	35.81	62.67	68.20	5.53
11400.00	47.41	PK	H	1.4	48.81	74.00	25.19
11400.00	36.58	AV	H	1.4	37.98	54.00	16.02
11400.00	48.39	PK	V	1.4	49.79	74.00	24.21
11400.00	37.52	AV	V	1.4	38.92	54.00	15.08
17100.00	47.75	PK	H	4	51.75	68.20	16.45
17100.00	47.87	PK	V	4	51.87	68.20	16.33
7600.80	50.66	PK	H	-4.2	46.46	74.00	27.54
7600.80	40.38	AV	H	-4.2	36.18	54.00	17.82
7600.80	53.34	PK	V	-4.2	49.14	74.00	24.86
7600.80	43.43	AV	V	-4.2	39.23	54.00	14.77

**802.11n20 U-NII-2C**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5500</b>	<b>MHz</b>		
5460.00	30.70	PK	H	35.34	60.04	74.00	13.96
5460.00	20.67	AV	H	35.34	50.01	54.00	3.99
5460.00	30.74	PK	V	35.34	60.08	74.00	13.92
5460.00	20.21	AV	V	35.34	49.55	54.00	4.45
5470.00	31.00	PK	H	35.36	60.36	68.20	7.84
5470.00	30.59	PK	V	35.36	59.95	68.20	8.25
11000.00	49.76	PK	H	0.72	50.48	74.00	23.52
11000.00	38.83	AV	H	0.72	39.55	54.00	14.45
11000.00	48.72	PK	V	0.72	49.44	74.00	24.56
11000.00	37.82	AV	V	0.72	38.54	54.00	15.46
16500.00	48.27	PK	H	1.1	49.37	68.20	18.83
16500.00	47.49	PK	V	1.1	48.59	68.20	19.61
<b>middle channel</b>				<b>5580</b>	<b>MHz</b>		
11160.00	47.42	PK	H	1	48.42	74.00	25.58
11160.00	36.51	AV	H	1	37.51	54.00	16.49
11160.00	47.69	PK	V	1	48.69	74.00	25.31
11160.00	36.84	AV	V	1	37.84	54.00	16.16
16740.00	47.55	PK	H	2.42	49.97	68.20	18.23
16740.00	47.38	PK	V	2.42	49.80	68.20	18.40
<b>high channel</b>				<b>5700</b>	<b>MHz</b>		
5725.00	31.58	PK	H	35.81	61.39	68.20	6.81
5725.00	32.30	PK	V	35.81	62.11	68.20	6.09
11400.00	47.10	PK	H	1.4	48.50	74.00	25.50
11400.00	36.23	AV	H	1.4	37.63	54.00	16.37
11400.00	47.46	PK	V	1.4	48.86	74.00	25.14
11400.00	36.58	AV	V	1.4	37.98	54.00	16.02
17100.00	46.74	PK	H	4	50.74	68.20	17.46
17100.00	47.12	PK	V	4	51.12	68.20	17.08

**802.11n40 U-NII-2C**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5510</b>	<b>MHz</b>		
5460.00	32.10	PK	H	35.34	61.44	74.00	12.56
5460.00	21.25	AV	H	35.34	50.59	54.00	3.41
5460.00	32.34	PK	V	35.34	61.68	74.00	12.32
5460.00	21.51	AV	V	35.34	50.85	54.00	3.15
5470.00	35.57	PK	H	35.36	64.93	68.20	3.27
5470.00	36.90	PK	V	35.36	66.26	68.20	1.94
11020.00	49.52	PK	H	0.75	50.27	74.00	23.73
11020.00	38.64	AV	H	0.75	39.39	54.00	14.61
11020.00	47.91	PK	V	0.75	48.66	74.00	25.34
11020.00	36.97	AV	V	0.75	37.72	54.00	16.28
16530.00	48.66	PK	H	1.27	49.93	68.20	18.27
16530.00	47.25	PK	V	1.27	48.52	68.20	19.68
<b>middle channel</b>				<b>5550</b>	<b>MHz</b>		
11100.00	48.89	PK	H	0.89	49.78	74.00	24.22
11100.00	37.92	AV	H	0.89	38.81	54.00	15.19
11100.00	48.56	PK	V	0.89	49.45	74.00	24.55
11100.00	37.64	AV	V	0.89	38.53	54.00	15.47
16650.00	47.78	PK	H	1.93	49.71	68.20	18.49
16650.00	47.31	PK	V	1.93	49.24	68.20	18.96
<b>high channel</b>				<b>5670</b>	<b>MHz</b>		
5725.00	31.24	PK	H	35.81	61.05	68.20	7.15
5725.00	31.68	PK	V	35.81	61.49	68.20	6.71
11340.00	48.00	PK	H	1.29	49.29	74.00	24.71
11340.00	37.05	AV	H	1.29	38.34	54.00	15.66
11340.00	48.75	PK	V	1.29	50.04	74.00	23.96
11340.00	37.81	AV	V	1.29	39.10	54.00	14.90
17010.00	47.87	PK	H	3.87	51.74	68.20	16.46
17010.00	47.13	PK	V	3.87	51.00	68.20	17.20

**802.11ac80 U-NII-2C**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5530</b>	<b>MHz</b>		
5470.00	32.50	PK	H	35.36	61.86	68.20	6.34
5470.00	34.57	PK	V	35.36	63.93	68.20	4.27
11060.00	47.57	PK	H	0.82	48.39	74.00	25.61
11060.00	36.66	AV	H	0.82	37.48	54.00	16.52
11060.00	48.31	PK	V	0.82	49.13	74.00	24.87
11060.00	37.41	AV	V	0.82	38.23	54.00	15.77
16590.00	47.89	PK	H	1.6	49.49	68.20	18.71
16590.00	47.61	PK	V	1.6	49.21	68.20	18.99
<b>high channel</b>				<b>5610</b>	<b>MHz</b>		
5725.00	30.82	PK	H	35.81	60.63	68.20	7.57
5725.00	31.07	PK	V	35.81	60.88	68.20	7.32
11220.00	47.58	PK	H	1.1	48.68	74.00	25.32
11220.00	36.71	AV	H	1.1	37.81	54.00	16.19
11220.00	47.54	PK	V	1.1	48.64	74.00	25.36
11220.00	36.69	AV	V	1.1	37.79	54.00	16.21
16830.00	47.46	PK	H	2.91	50.37	68.20	17.83
16830.00	46.89	PK	V	2.91	49.80	68.20	18.40

**802.11a U-NII-3**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5745</b>	<b>MHz</b>		
5725.00	39.82	PK	H	35.81	69.63	122.20	52.57
5720.00	33.60	PK	H	35.8	63.40	110.80	47.40
5700.00	31.93	PK	H	35.77	61.70	105.20	43.50
5650.00	31.10	PK	H	35.69	60.79	68.20	7.41
5725.00	42.40	PK	V	35.81	72.21	122.20	49.99
5720.00	35.67	PK	V	35.8	65.47	110.80	45.33
5700.00	32.70	PK	V	35.77	62.47	105.20	42.73
5650.00	31.52	PK	V	35.69	61.21	68.20	6.99
11490.00	47.41	PK	H	1.55	48.96	74.00	25.04
11490.00	36.54	AV	H	1.55	38.09	54.00	15.91
11490.00	48.42	PK	V	1.55	49.97	74.00	24.03
11490.00	37.58	AV	V	1.55	39.13	54.00	14.87
17235.00	47.72	PK	H	4.2	51.92	68.20	16.28
17235.00	47.45	PK	V	4.2	51.65	68.20	16.55
7660.60	51.72	PK	H	-4.18	47.54	74.00	26.46
7660.60	42.76	AV	H	-4.18	38.58	54.00	15.42
7660.60	52.67	PK	V	-4.18	48.49	74.00	25.51
7660.60	42.88	AV	V	-4.18	38.70	54.00	15.30
<b>middle channel</b>				<b>5785</b>	<b>MHz</b>		
11570.00	48.02	PK	H	1.59	49.61	74.00	24.39
11570.00	37.13	AV	H	1.59	38.72	54.00	15.28
11570.00	47.91	PK	V	1.59	49.50	74.00	24.50
11570.00	36.74	AV	V	1.59	38.33	54.00	15.67
17355.00	49.10	PK	H	4.37	53.47	68.20	14.73
17355.00	49.52	PK	V	4.37	53.89	68.20	14.31
7712.60	50.25	PK	H	-4.15	46.10	74.00	27.90
7712.60	41.33	AV	H	-4.15	37.18	54.00	16.82
7712.60	52.68	PK	V	-4.15	48.53	74.00	25.47
7712.60	42.55	AV	V	-4.15	38.40	54.00	15.60
<b>high channel</b>				<b>5825</b>	<b>MHz</b>		
5850.00	33.20	PK	H	36	63.20	122.20	59.00
5855.00	33.00	PK	H	36.01	63.01	110.80	47.79
5875.00	33.01	PK	H	36.04	63.05	105.20	42.15
5925.00	32.29	PK	H	36.12	62.41	68.20	5.79
5850.00	35.06	PK	V	36	65.06	122.20	57.14
5855.00	32.90	PK	V	36.01	62.91	110.80	47.89
5875.00	32.66	PK	V	36.04	62.70	105.20	42.50
5925.00	31.75	PK	V	36.12	61.87	68.20	6.33
11650.00	47.87	PK	H	1.59	49.46	74.00	24.54
11650.00	36.97	AV	H	1.59	38.56	54.00	15.44
11650.00	48.56	PK	V	1.59	50.15	74.00	23.85
11650.00	38.25	AV	V	1.59	39.84	54.00	<b>14.16</b>
17475.00	47.75	PK	H	4.56	52.31	68.20	15.89
17475.00	48.15	PK	V	4.56	52.71	68.20	15.49
7767.10	50.38	PK	H	-4.12	46.26	68.20	21.94
7767.10	53.39	PK	V	-4.12	49.27	68.20	18.93

**802.11n20 U-NII-3**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5745</b>	<b>MHz</b>		
5725.00	40.33	PK	H	35.81	70.14	122.20	52.06
5720.00	36.78	PK	H	35.8	66.58	110.80	44.22
5700.00	31.56	PK	H	35.77	61.33	105.20	43.87
5650.00	31.45	PK	H	35.69	61.14	68.20	7.06
5725.00	43.69	PK	V	35.81	73.50	122.20	48.70
5720.00	38.46	PK	V	35.8	68.26	110.80	42.54
5700.00	32.24	PK	V	35.77	62.01	105.20	43.19
5650.00	31.38	PK	V	35.69	61.07	68.20	7.13
11490.00	47.75	PK	H	1.55	49.30	74.00	24.70
11490.00	36.72	AV	H	1.55	38.27	54.00	15.73
11490.00	47.61	PK	V	1.55	49.16	74.00	24.84
11490.00	36.58	AV	V	1.55	38.13	54.00	15.87
17235.00	48.24	PK	H	4.2	52.44	68.20	15.76
17235.00	47.58	PK	V	4.2	51.78	68.20	16.42
7660.60	51.74	PK	H	-4.18	47.56	74.00	26.44
7660.60	42.75	AV	H	-4.18	38.57	54.00	15.43
7660.60	53.01	PK	V	-4.18	48.83	74.00	25.17
7660.60	43.98	AV	V	-4.18	39.80	54.00	14.20
<b>middle channel</b>				<b>5785</b>	<b>MHz</b>		
11570.00	48.56	PK	H	1.59	50.15	74.00	23.85
11570.00	37.28	AV	H	1.59	38.87	54.00	15.13
11570.00	48.69	PK	V	1.59	50.28	74.00	23.72
11570.00	37.72	AV	V	1.59	39.31	54.00	14.69
17355.00	49.46	PK	H	4.37	53.83	68.20	14.37
17355.00	49.58	PK	V	4.37	53.95	68.20	14.25
7712.60	51.21	PK	H	-4.15	47.06	74.00	26.94
7712.60	42.37	AV	H	-4.15	38.22	54.00	15.78
7712.60	52.48	PK	V	-4.15	48.33	74.00	25.67
7712.60	42.57	AV	V	-4.15	38.42	54.00	15.58
<b>high channel</b>				<b>5825</b>	<b>MHz</b>		
5850.00	33.65	PK	H	36	63.65	122.20	58.55
5855.00	33.10	PK	H	36.01	63.11	110.80	47.69
5875.00	32.48	PK	H	36.04	62.52	105.20	42.68
5925.00	32.03	PK	H	36.12	62.15	68.20	6.05
5850.00	38.34	PK	V	36	68.34	122.20	53.86
5855.00	33.01	PK	V	36.01	63.02	110.80	47.78
5875.00	32.33	PK	V	36.04	62.37	105.20	42.83
5925.00	32.05	PK	V	36.12	62.17	68.20	6.03
11650.00	47.77	PK	H	1.59	49.36	74.00	24.64
11650.00	36.75	AV	H	1.59	38.34	54.00	15.66
11650.00	49.56	PK	V	1.59	51.15	74.00	22.85
11650.00	38.63	AV	V	1.59	40.22	54.00	13.78
17475.00	47.53	PK	H	4.56	52.09	68.20	16.11
17475.00	48.96	PK	V	4.56	53.52	68.20	14.68
7767.10	51.26	PK	H	-4.12	47.14	68.20	21.06
7767.10	52.56	PK	V	-4.12	48.44	68.20	19.76



**802.11n40 U-NII-3**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
<b>low channel</b>				<b>5755</b>	<b>MHz</b>		
5725.00	41.81	PK	H	35.81	71.62	122.20	50.58
5720.00	40.18	PK	H	35.8	69.98	110.80	40.82
5700.00	32.43	PK	H	35.77	62.20	105.20	43.00
5650.00	30.96	PK	H	35.69	60.65	68.20	7.55
5725.00	45.23	PK	V	35.81	75.04	122.20	47.16
5720.00	43.17	PK	V	35.8	72.97	110.80	37.83
5700.00	33.17	PK	V	35.77	62.94	105.20	42.26
5650.00	30.89	PK	V	35.69	60.58	68.20	7.62
11510.00	47.22	PK	H	1.57	48.79	74.00	25.21
11510.00	36.96	AV	H	1.57	38.53	54.00	15.47
11510.00	49.21	PK	V	1.57	50.78	74.00	23.22
11510.00	37.20	AV	V	1.57	38.77	54.00	15.23
17265.00	48.39	PK	H	4.24	52.63	68.20	15.57
17265.00	48.49	PK	V	4.24	52.73	68.20	15.47
7673.60	52.46	PK	H	-4.17	48.29	74.00	25.71
7673.60	42.83	AV	H	-4.17	38.66	54.00	15.34
7673.60	52.81	PK	V	-4.17	48.64	74.00	25.36
7673.60	43.95	AV	V	-4.17	39.78	54.00	14.22
<b>high channel</b>				<b>5795</b>	<b>MHz</b>		
5850.00	32.80	PK	H	36	62.80	122.20	59.40
5855.00	32.64	PK	H	36.01	62.65	110.80	48.15
5875.00	32.29	PK	H	36.04	62.33	105.20	42.87
5925.00	32.14	PK	H	36.12	62.26	68.20	5.94
5850.00	32.79	PK	V	36	62.79	122.20	59.41
5855.00	32.33	PK	V	36.01	62.34	110.80	48.46
5875.00	32.39	PK	V	36.04	62.43	105.20	42.77
5925.00	31.95	PK	V	36.12	62.07	68.20	6.13
11590.00	47.43	PK	H	1.58	49.01	74.00	24.99
11590.00	37.18	AV	H	1.58	38.76	54.00	15.24
11590.00	47.91	PK	V	1.58	49.49	74.00	24.51
11590.00	37.64	AV	V	1.58	39.22	54.00	14.78
17385.00	49.31	PK	H	4.42	53.73	68.20	14.47
17385.00	48.30	PK	V	4.42	52.72	68.20	15.48
7728.20	51.34	PK	H	-4.14	47.20	74.00	26.80
7728.20	39.61	AV	H	-4.14	35.47	54.00	18.53
7728.20	54.24	PK	V	-4.14	50.10	74.00	23.90
7728.20	42.53	AV	V	-4.14	38.39	54.00	15.61

**802.11ac80 U-NII-3**

Frequency	Reading	Detector	Polar	Factor	Corrected Amplitude	Limit	Margin
MHz	dBμV	PK/QP/AV	H/V	dB/m	dBμV/m	dBμV/m	dB
middle channel				5775	MHz		
5725.00	42.17	PK	H	35.81	71.98	122.20	50.22
5720.00	42.74	PK	H	35.8	72.54	110.80	38.26
5700.00	38.51	PK	H	35.77	68.28	105.20	36.92
5650.00	32.44	PK	H	35.69	62.13	68.20	6.07
5850.00	38.60	PK	H	36	68.60	122.20	53.60
5855.00	37.35	PK	H	36.01	67.36	110.80	43.44
5875.00	33.39	PK	H	36.04	63.43	105.20	41.77
5925.00	31.44	PK	H	36.12	61.56	68.20	6.64
5725.00	45.38	PK	V	35.81	75.19	122.20	47.01
5720.00	45.97	PK	V	35.8	75.77	110.80	35.03
5700.00	43.14	PK	V	35.77	72.91	105.20	32.29
5650.00	33.84	PK	V	35.69	63.53	68.20	4.67
5850.00	42.24	PK	V	36	72.24	122.20	49.96
5855.00	41.58	PK	V	36.01	71.59	110.80	39.21
5875.00	36.21	PK	V	36.04	66.25	105.20	38.95
5925.00	32.87	PK	V	36.12	62.99	68.20	5.21
11550.00	47.27	PK	H	1.57	48.84	74.00	25.16
11550.00	36.89	AV	H	1.57	38.46	54.00	15.54
11550.00	47.89	PK	V	1.57	49.46	74.00	24.54
11550.00	37.34	AV	V	1.57	38.91	54.00	15.09
17325.00	48.64	PK	H	4.33	52.97	68.20	15.23
17325.00	48.07	PK	V	4.33	52.40	68.20	15.80
7699.60	50.79	PK	H	-4.15	46.64	74.00	27.36
7699.60	39.77	AV	H	-4.15	35.62	54.00	18.38
7699.60	53.71	PK	V	-4.15	49.56	74.00	24.44
7699.60	42.88	AV	V	-4.15	38.73	54.00	15.27

Note:

The basic equation except radiated bandedge test is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

Corrected Amplitude= Reading + Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit.

The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

For Radiated Bandedge test:

Factor = Antenna Factor + Cable Loss- Amplifier Gain- Extrapolation Factor

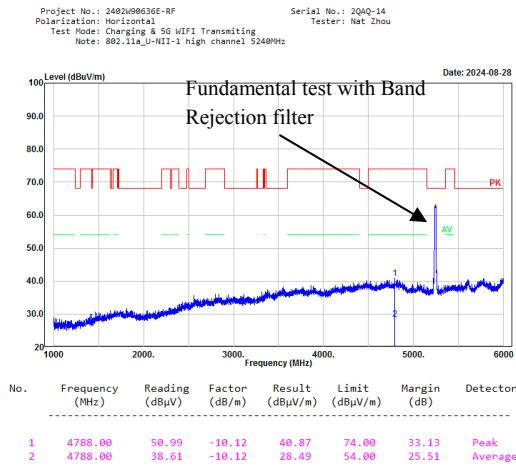
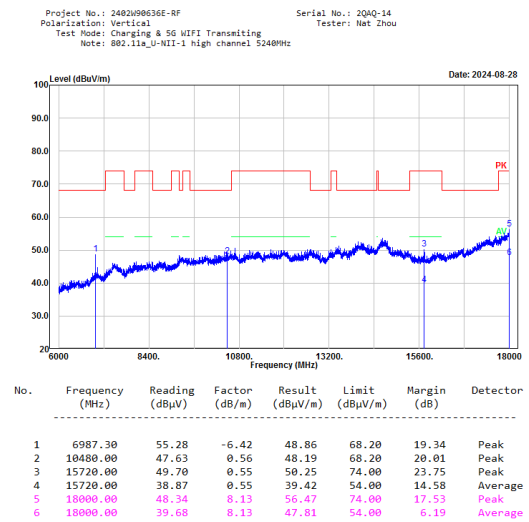
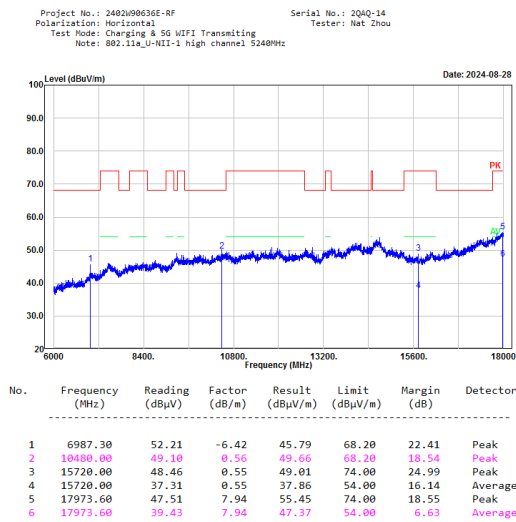
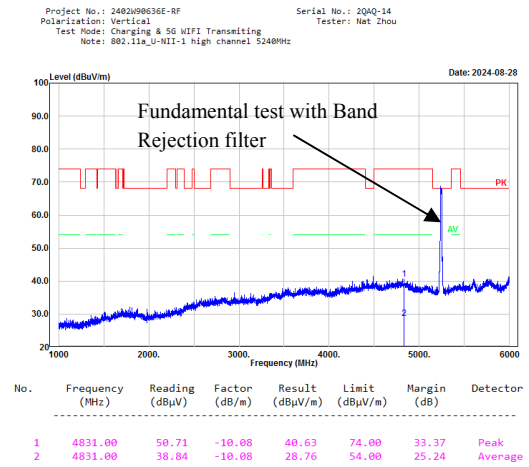
Extrapolation Factor=6.0 dB

Corrected Amplitude=Reading+ Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit.

The equation for margin calculation is as follows:

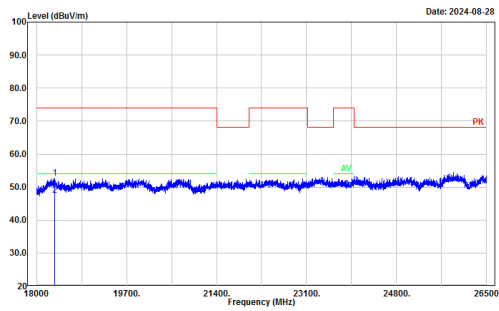
Margin = Limit –Corrected Amplitude

**Worst Channel Test plots:  
5150-5250MHz:****802.11a 5240MHz, Horizontal****802.11a 5240MHz, Vertical**

## 802.11a 5240MHz, Horizontal

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-1 high channel 5240MHz

Serial No.: 20AQ-14  
Tester: Nat Zhou

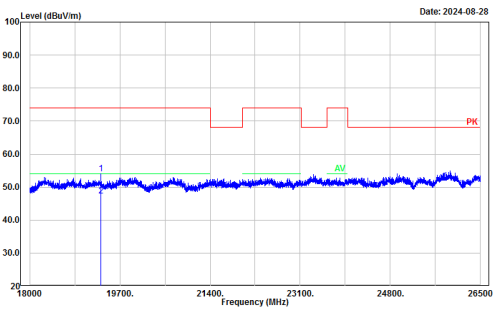


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18348.50	46.03	6.65	52.68	74.00	21.32	Peak
2	18348.50	40.94	6.65	47.59	54.00	6.41	Average

## 802.11a 5240MHz, Vertical

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-1 high channel 5240MHz

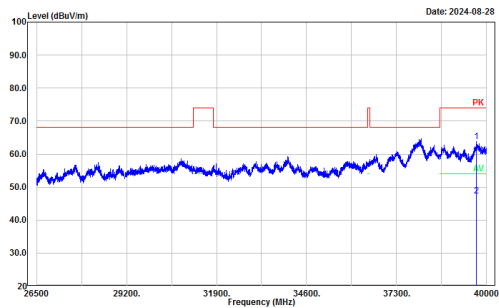
Serial No.: 20AQ-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19344.70	48.02	5.96	53.98	74.00	20.02	Peak
2	19344.70	41.43	5.96	47.39	54.00	6.61	Average

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-1 high channel 5240MHz

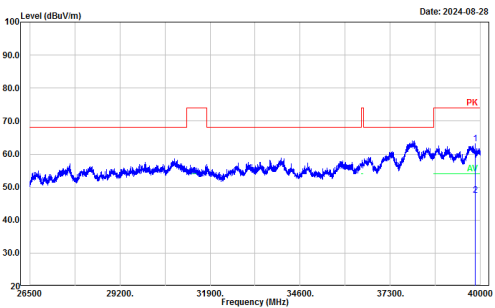
Serial No.: 20AQ-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39686.80	46.44	17.29	63.73	74.00	10.27	Peak
2	39686.80	29.99	17.29	47.28	54.00	6.72	Average

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-1 high channel 5240MHz

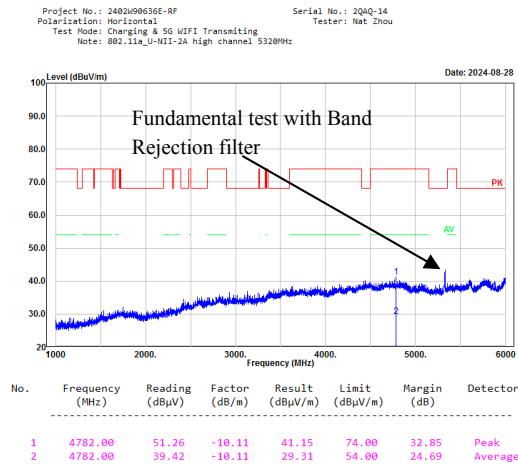
Serial No.: 20AQ-14  
Tester: Nat Zhou



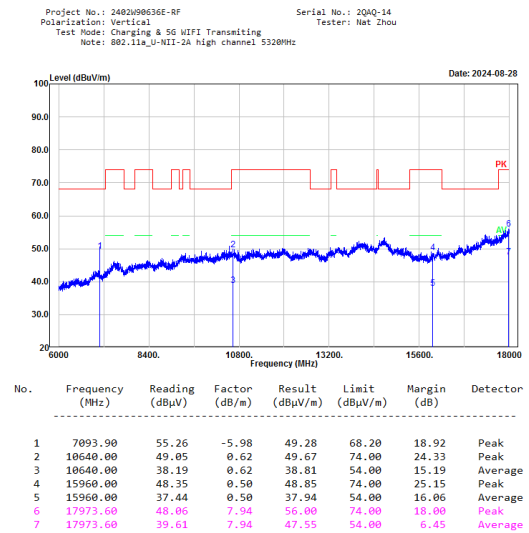
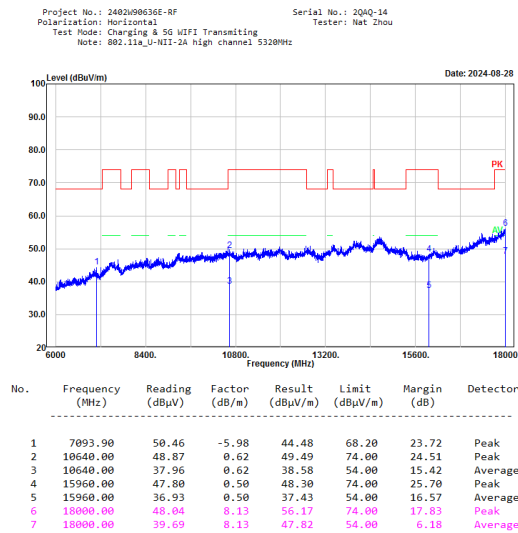
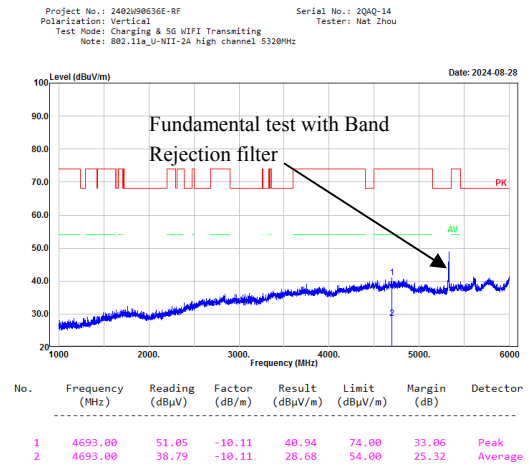
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39846.10	45.80	17.38	63.18	74.00	10.82	Peak
2	39846.10	30.26	17.38	47.64	54.00	6.36	Average

5250-5350MHz:

## 802.11a 5320MHz, Horizontal



## 802.11a 5320MHz, Vertical

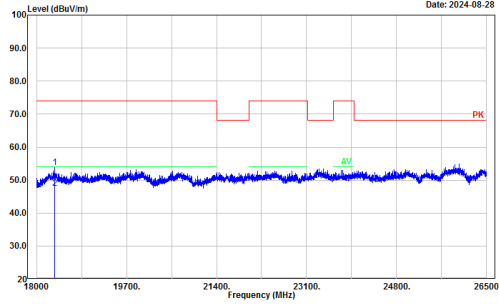


## 802.11a 5320MHz, Horizontal

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2A high channel 5320MHz

Serial No.: 20A0-14  
Tester: Nat Zhou

Date: 2024-08-28



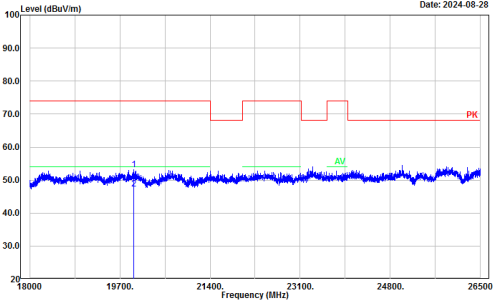
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18348.00	47.15	6.66	53.81	74.00	20.19	Peak
2	18348.00	40.83	6.66	47.49	54.00	6.51	Average

## 802.11a 5320MHz, Vertical

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2A high channel 5320MHz

Serial No.: 20A0-14  
Tester: Nat Zhou

Date: 2024-08-28

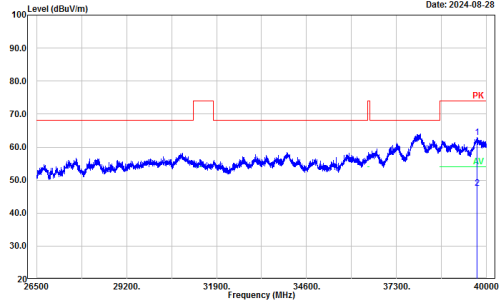


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19958.40	47.85	5.38	53.23	74.00	20.77	Peak
2	19958.40	41.89	5.38	47.27	54.00	6.73	Average

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2A high channel 5320MHz

Serial No.: 20A0-14  
Tester: Nat Zhou

Date: 2024-08-28

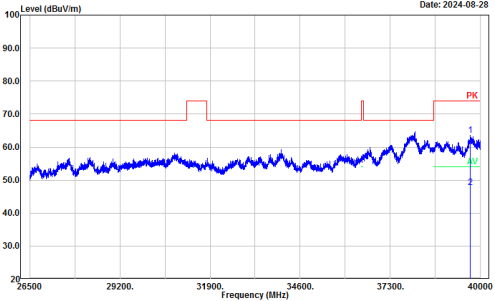


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39711.10	45.56	17.30	62.86	74.00	11.14	Peak
2	39711.10	30.28	17.30	47.58	54.00	6.42	Average

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2A high channel 5320MHz

Serial No.: 20A0-14  
Tester: Nat Zhou

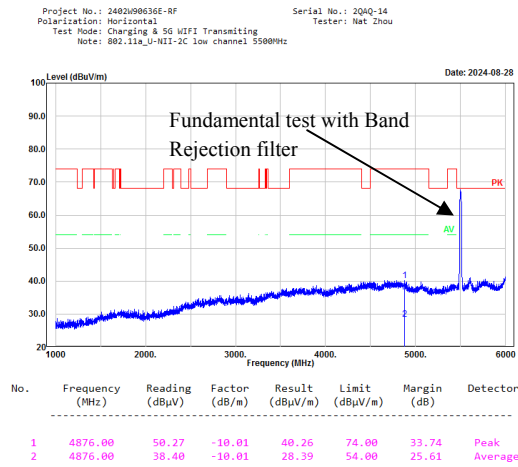
Date: 2024-08-28



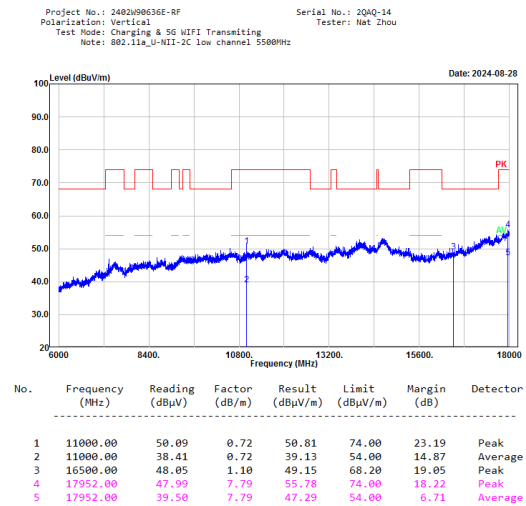
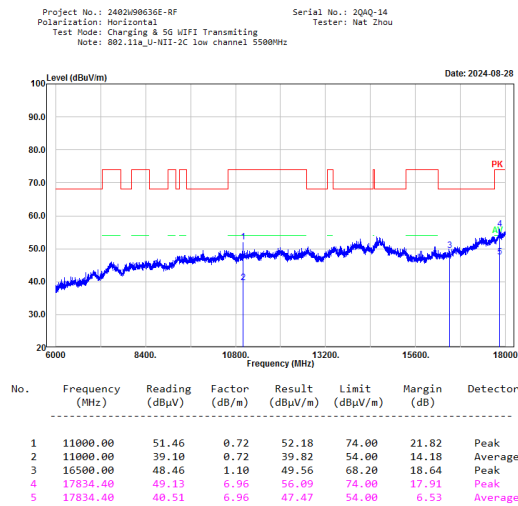
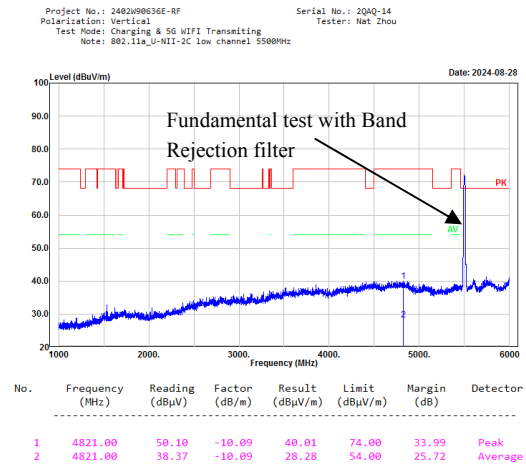
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39692.20	46.25	17.29	63.54	74.00	10.46	Peak
2	39692.20	30.46	17.29	47.75	54.00	6.25	Average

5470-5725MHz:

## 802.11a 5500MHz, Horizontal



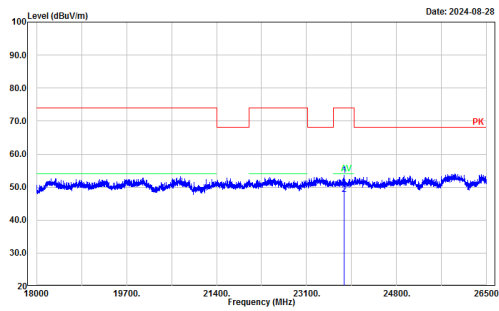
## 802.11a 5500MHz, Vertical



## 802.11a 5500MHz, Horizontal

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2C low channel 5500MHz

Serial No.: 20AQ-14  
Tester: Nat Zhou

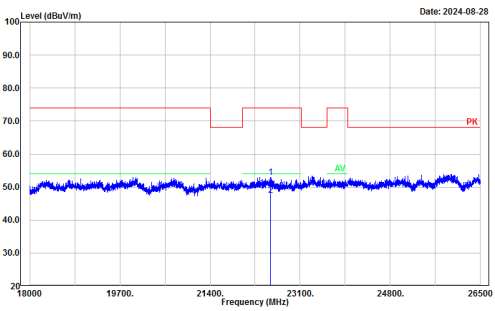


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	23814.00	44.91	8.74	53.65	74.00	20.35	Peak
2	23814.00	38.99	8.74	47.73	54.00	6.27	Average

## 802.11a 5500MHz, Vertical

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2C low channel 5500MHz

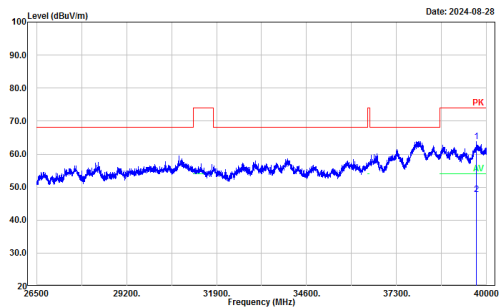
Serial No.: 20AQ-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	22537.30	45.14	7.92	53.06	74.00	20.94	Peak
2	22537.30	39.69	7.92	47.61	54.00	6.39	Average

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2C low channel 5500MHz

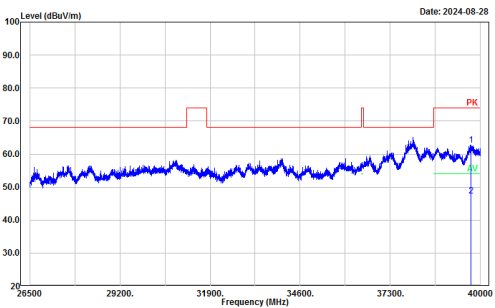
Serial No.: 20AQ-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39700.30	46.46	17.30	63.76	74.00	10.24	Peak
2	39700.30	30.42	17.30	47.72	54.00	6.28	Average

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WiFi Transmitting  
Note: 802.11a\_U-NII-2C low channel 5500MHz

Serial No.: 20AQ-14  
Tester: Nat Zhou

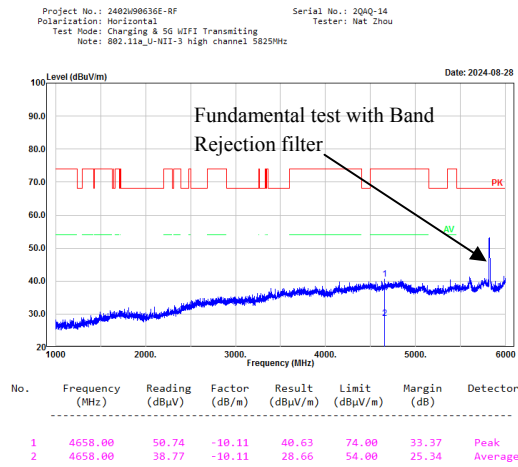


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39719.20	45.38	17.30	62.68	74.00	11.32	Peak
2	39719.20	29.99	17.30	47.29	54.00	6.71	Average

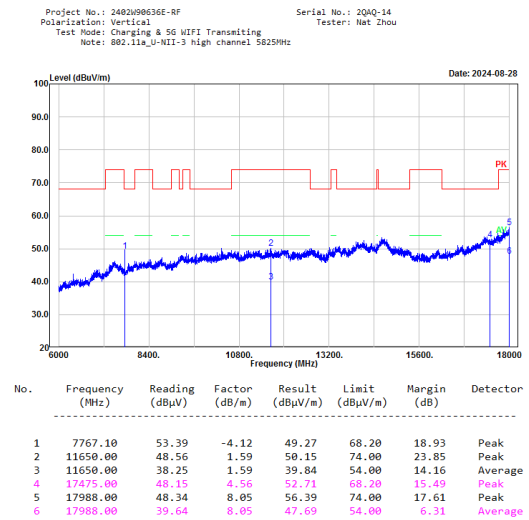
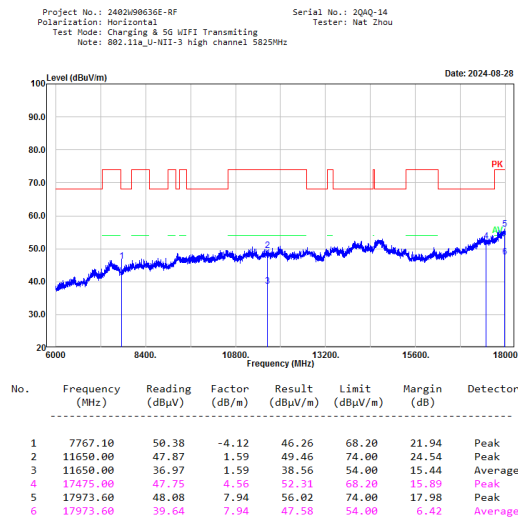
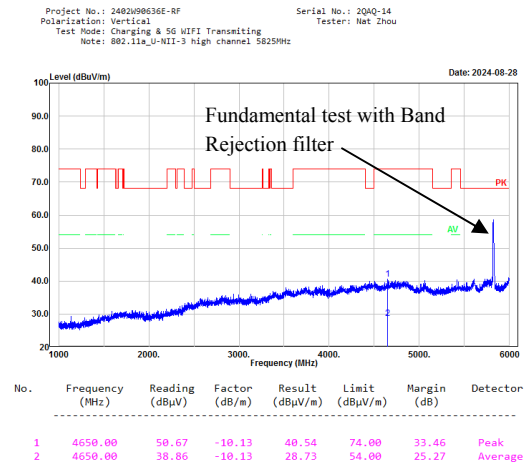


5725-5850MHz:

## 802.11a 5825MHz, Horizontal



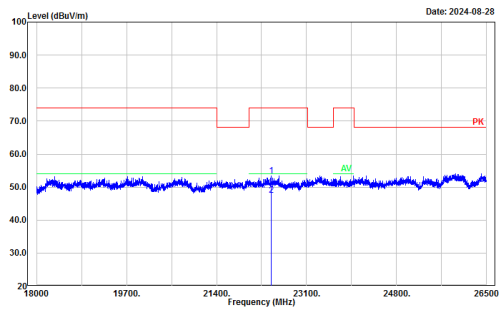
## 802.11a 5825MHz, Vertical



## 802.11a 5825MHz,Horizontal

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-3 high channel 5825MHz

Serial No.: 20A0-14  
Tester: Nat Zhou

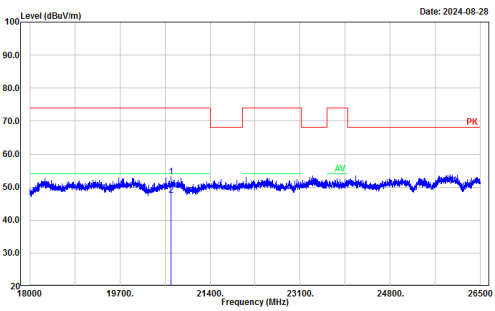


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	22433.60	45.57	7.83	53.40	74.00	20.60	Peak
2	22433.60	39.73	7.83	47.56	54.00	6.44	Average

## 802.11a 5825MHz,Vertical

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-3 high channel 5825MHz

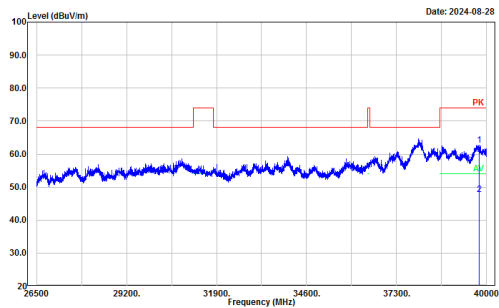
Serial No.: 20A0-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	20667.30	47.38	5.71	53.09	74.00	20.91	Peak
2	20667.30	41.73	5.71	47.44	54.00	6.56	Average

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Charging & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-3 high channel 5825MHz

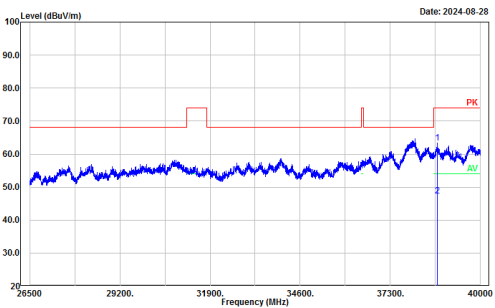
Serial No.: 20A0-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39784.00	45.42	17.34	62.76	74.00	11.24	Peak
2	39784.00	30.35	17.34	47.69	54.00	6.31	Average

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Charging & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-3 high channel 5825MHz

Serial No.: 20A0-14  
Tester: Nat Zhou



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38706.70	46.34	17.00	63.34	74.00	10.66	Peak
2	38706.70	30.31	17.00	47.31	54.00	6.69	Average

*Note:*

*The basic equation except radiated bandedge test is as follows:*

*Factor = Antenna Factor + Cable Loss- Amplifier Gain*

*Result = Reading + Factor*

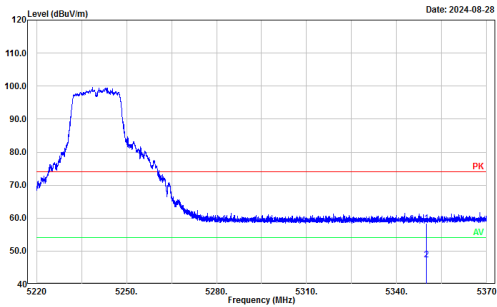
*The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit.  
The equation for margin calculation is as follows:*

*Margin = Limit –Result*

**802.11a 5240MHz, Bandedge, Horizontal**

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Changing & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-1 high channel 5240MHz

Serial No.: 2040-14  
Tester: Nat Zhou

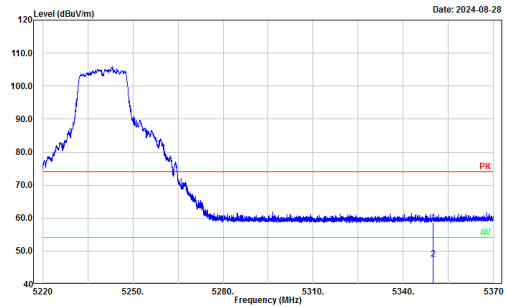


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	29.29	29.15	58.44	74.00	15.56	Peak
2	5350.00	18.22	29.15	47.37	54.00	6.63	Average

**802.11a 5240MHz, Bandedge, Vertical**

Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Changing & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-1 high channel 5240MHz

Serial No.: 2040-14  
Tester: Nat Zhou

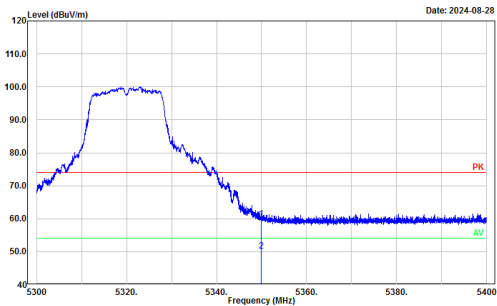


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	29.54	29.15	58.69	74.00	15.31	Peak
2	5350.00	18.50	29.15	47.65	54.00	6.35	Average

**802.11a 5320MHz, Bandedge, Horizontal**

Project No.: 2402W90636E-RF  
Polarization: Horizontal  
Test Mode: Changing & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-2A high channel 5320MHz

Serial No.: 2040-14  
Tester: Nat Zhou

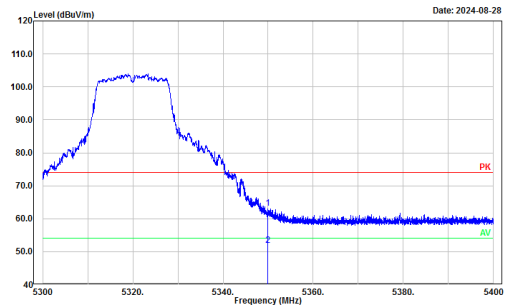


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	30.73	29.15	59.88	74.00	14.12	Peak
2	5350.00	20.97	29.15	50.12	54.00	3.88	Average

**802.11a 5320MHz, Bandedge, Vertical**

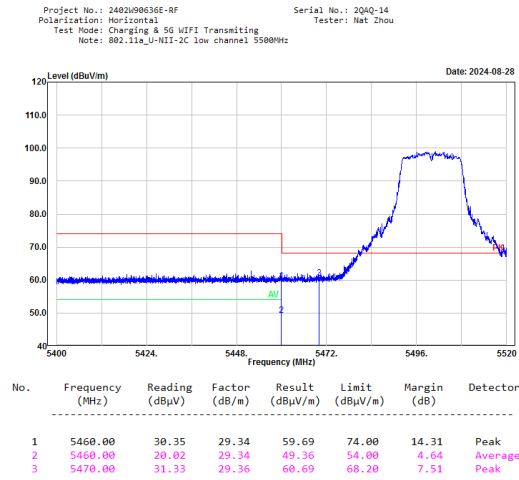
Project No.: 2402W90636E-RF  
Polarization: Vertical  
Test Mode: Changing & 5G WIFI Transmitting  
Note: 802.11a\_U-NII-2A high channel 5320MHz

Serial No.: 2040-14  
Tester: Nat Zhou

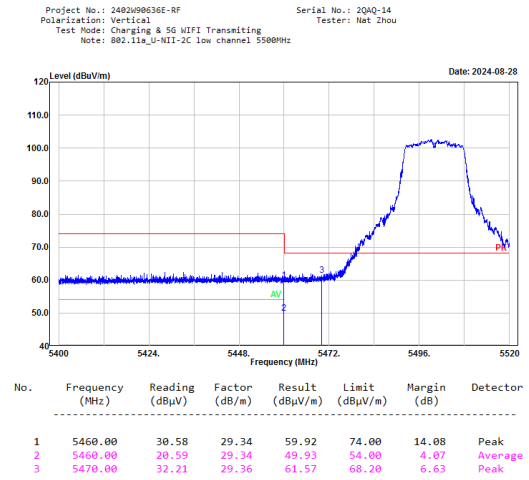


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5350.00	34.05	29.15	63.20	74.00	10.80	Peak
2	5350.00	22.72	29.15	51.87	54.00	2.13	Average

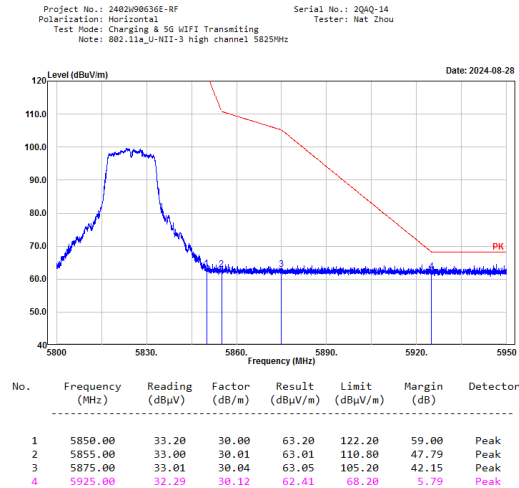
## 802.11a 5500MHz, Bandedge, Horizontal



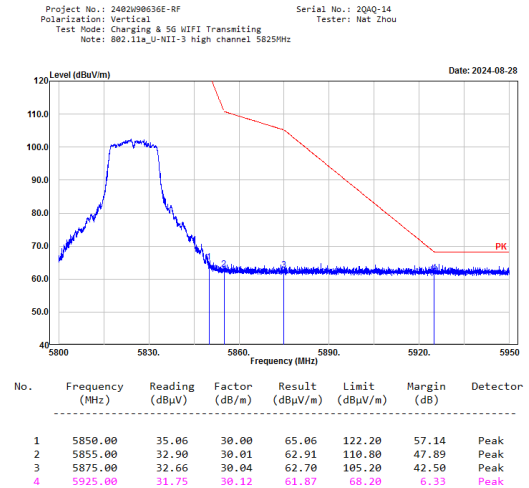
## 802.11a 5500MHz, Bandedge, Vertical



## 802.11a 5825MHz, Bandedge, Horizontal



## 802.11a 5825MHz, Bandedge, Vertical



*Note:*

*For Radiated Bandedge test:*

*Factor = Antenna Factor + Cable Loss- Amplifier Gain- Extrapolation Factor*

*Extrapolation Factor=6.0 dB*

*Result=Reading+ Factor*

*The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit.  
The equation for margin calculation is as follows:*

*Margin = Limit –Result*

### 5.3 Emission Bandwidth

#### Test Information:

Sample No.:	2QAQ-5	Test Date:	2024/08/28
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C):	26.1	Relative Humidity: (%)	41	ATM Pressure: (kPa)	99.8
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#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/07

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**26dB Emission Bandwidth:  
5.2G**

Mode	Value (MHz)
a_5180MHz	29.571
a_5200MHz	29.967
a_5240MHz	35.906
n20_5180MHz	30.934
n20_5200MHz	31.326
n20_5240MHz	33.720
n40_5190MHz	41.241
n40_5230MHz	42.042
ac80_5210MHz	101.820

**5.3G**

Mode	Value (MHz)
a_5260MHz	29.846
a_5280MHz	32.262
a_5320MHz	33.653
n20_5260MHz	28.416
n20_5280MHz	33.397
n20_5320MHz	30.879
n40_5270MHz	41.842
n40_5310MHz	42.142
ac80_5290MHz	83.884



**5.6G**

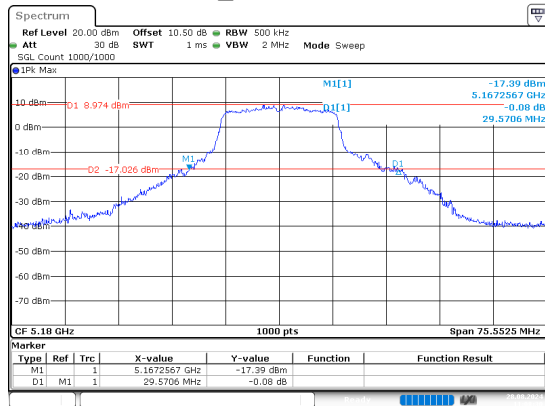
Mode	Value (MHz)
a_5500MHz	24.993
a_5580MHz	24.378
a_5700MHz	24.754
a_5720MHz	24.886
n20_5500MHz	24.861
n20_5580MHz	26.199
n20_5700MHz	26.067
n20_5720MHz	26.404
n40_5510MHz	41.842
n40_5550MHz	41.942
n40_5670MHz	42.042
n40_5710MHz	42.042
ac80_5530MHz	98.699
ac80_5610MHz	83.884
ac80_5690MHz	98.298

**6dB Emission Bandwidth:****5.8G**

Mode	Value (MHz)	Limit (MHz)	Result
a_5745MHz	15.616	0.5	Pass
a_5785MHz	15.466	0.5	Pass
a_5825MHz	15.466	0.5	Pass
n20_5745MHz	16.116	0.5	Pass
n20_5785MHz	16.066	0.5	Pass
n20_5825MHz	16.066	0.5	Pass
n40_5755MHz	35.536	0.5	Pass
n40_5795MHz	35.636	0.5	Pass
ac80_5775MHz	75.676	0.5	Pass

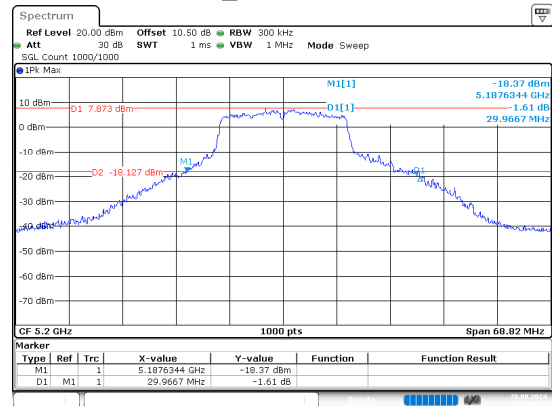
## 5.2G

## a\_5180MHz



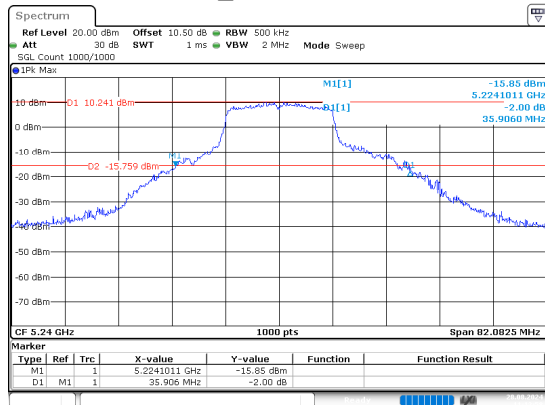
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:08:30

## a\_5200MHz



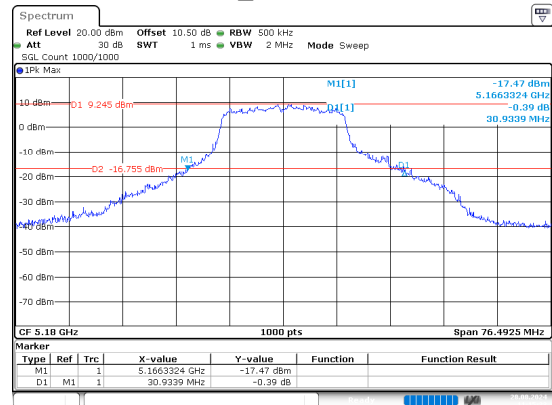
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:10:15

## a\_5240MHz



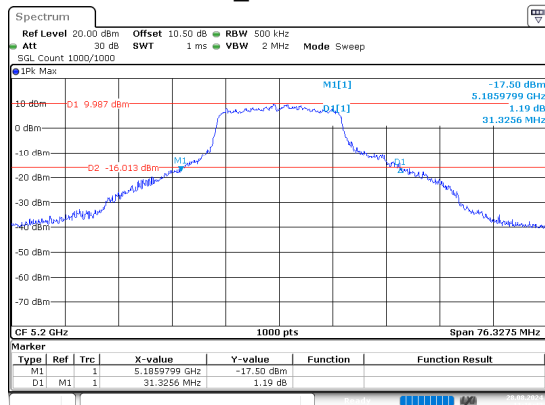
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:12:58

## n20\_5180MHz



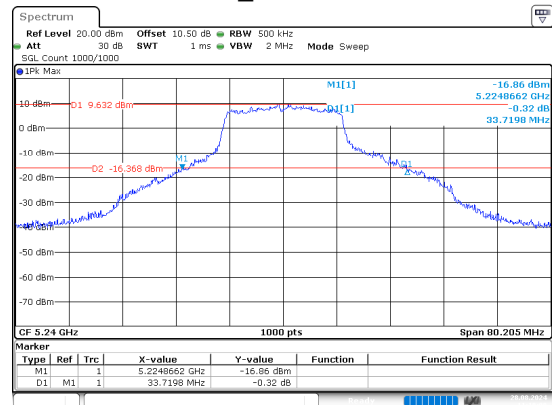
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:15:24

## n20\_5200MHz



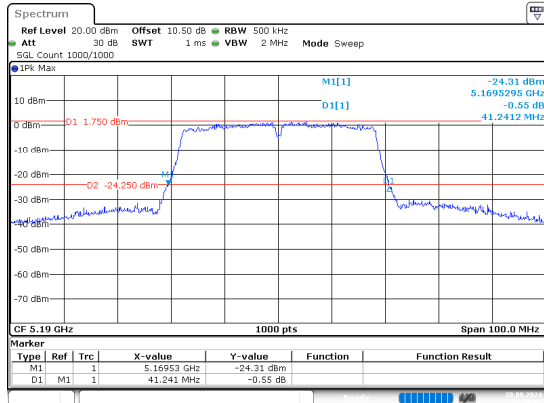
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:16:42

## n20\_5240MHz



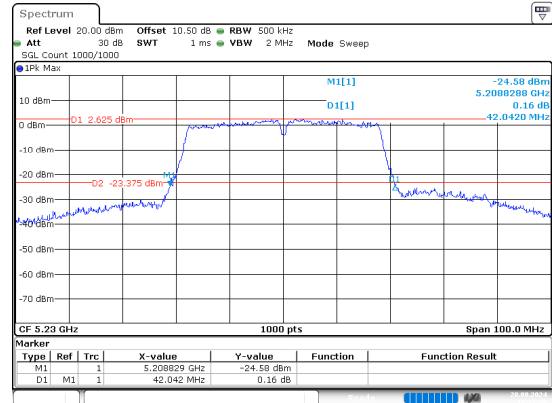
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:18:08

## n40\_5190MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:20:02

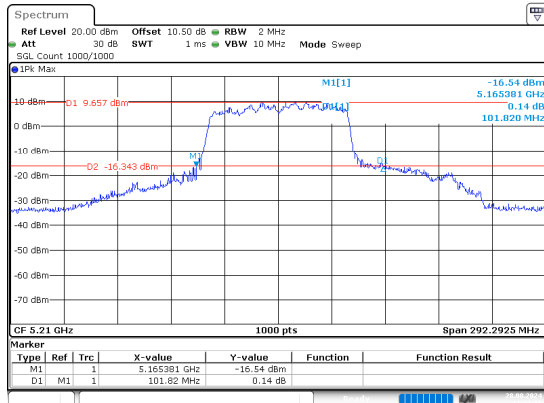
## n40\_5230MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:21:16

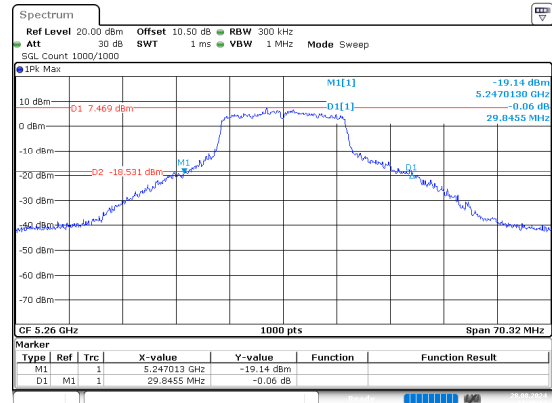
## 5.3G

## ac80\_5210MHz



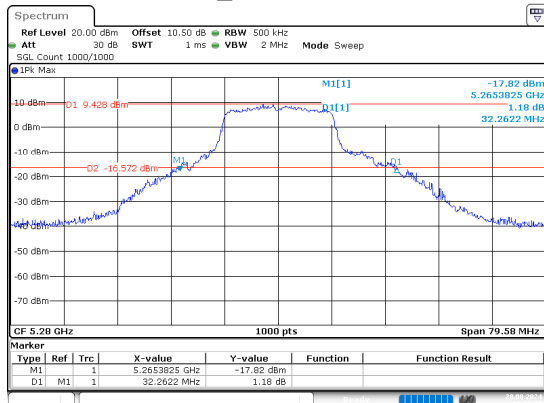
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:23:17

## a\_5260MHz



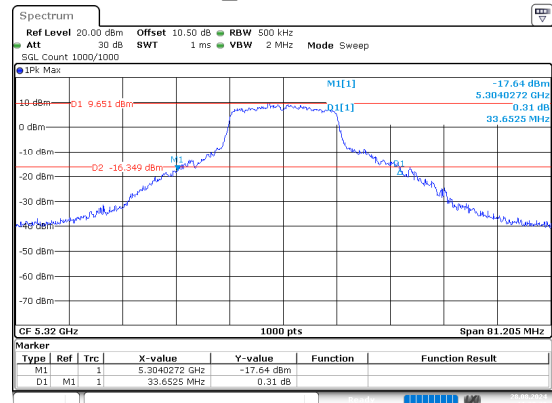
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:23:13

## a\_5280MHz



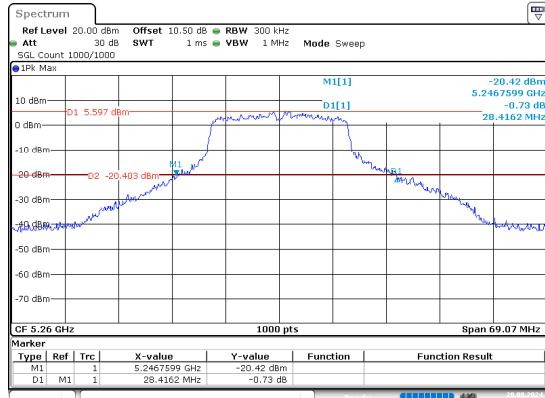
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:28:03

## a\_5320MHz



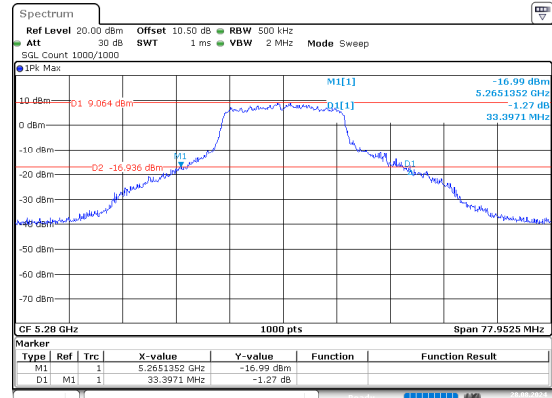
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:29:39

## n20\_5260MHz



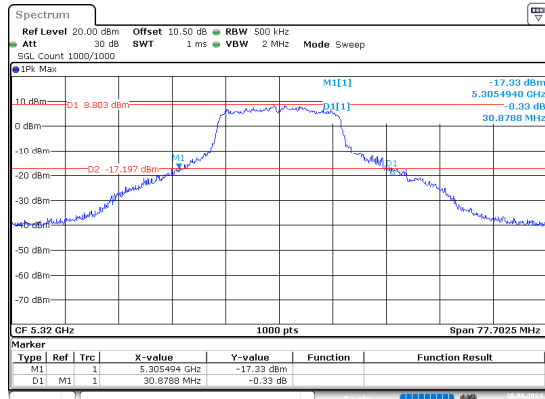
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:31:49

## n20\_5280MHz



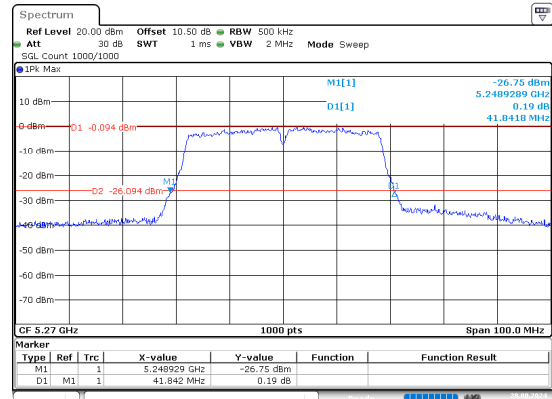
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:33:15

## n20\_5320MHz



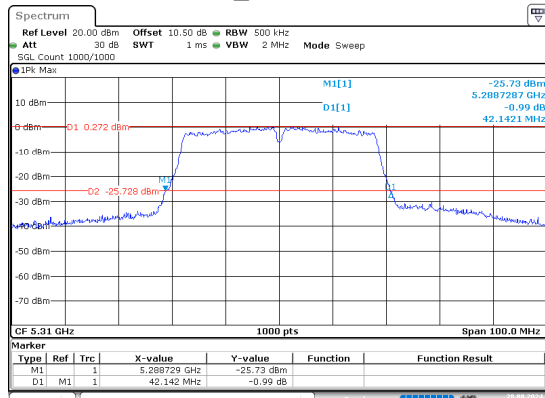
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:34:42

## n40\_5270MHz



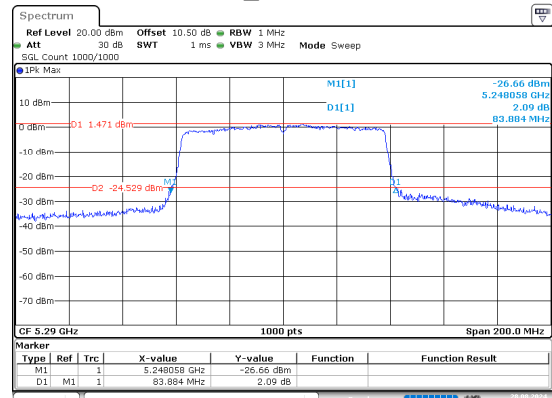
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:36:17

## n40\_5310MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:38:11

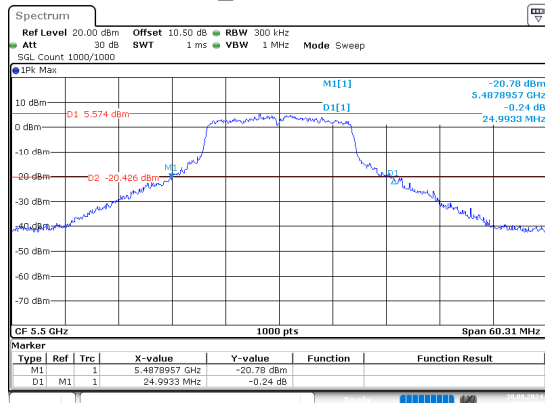
## ac80\_5290MHz



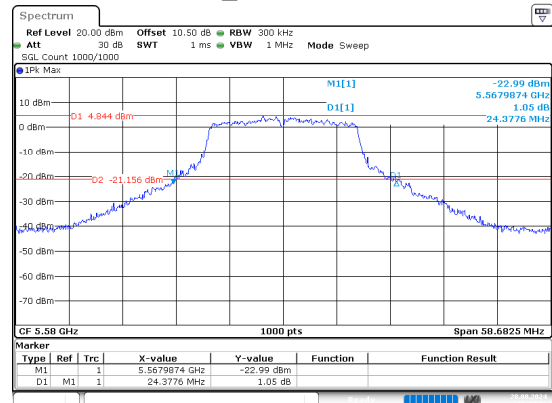
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:40:46

## 5.6G

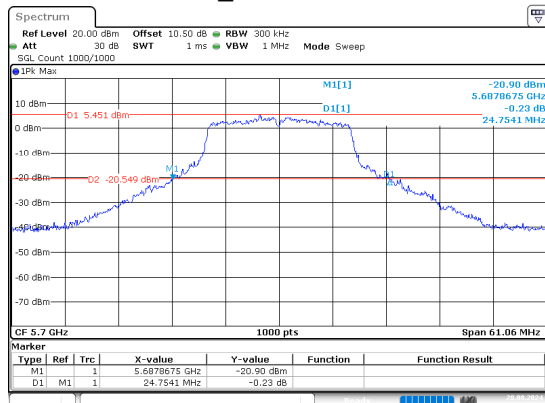
a\_5500MHz



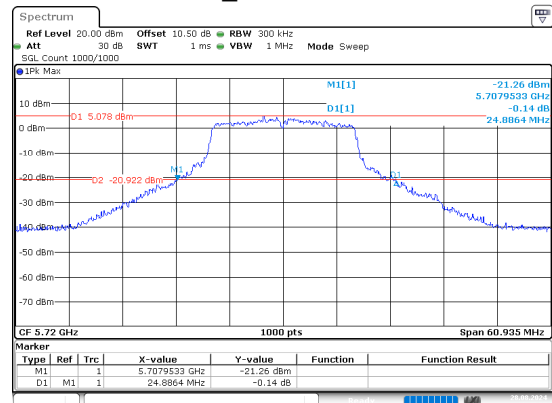
a\_5580MHz



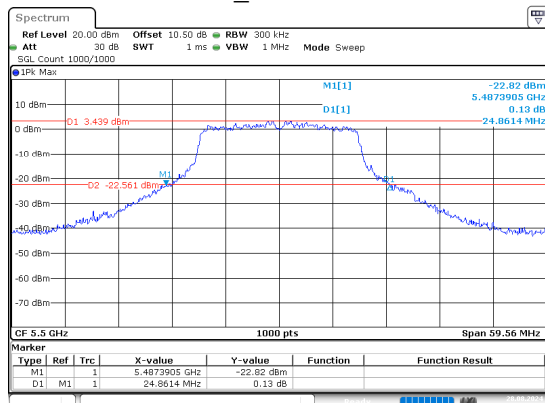
a\_5700MHz



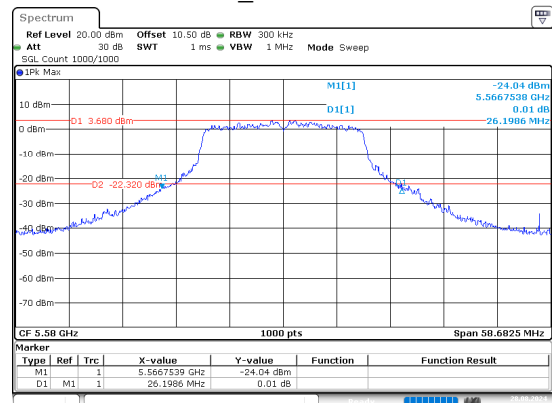
a\_5720MHz



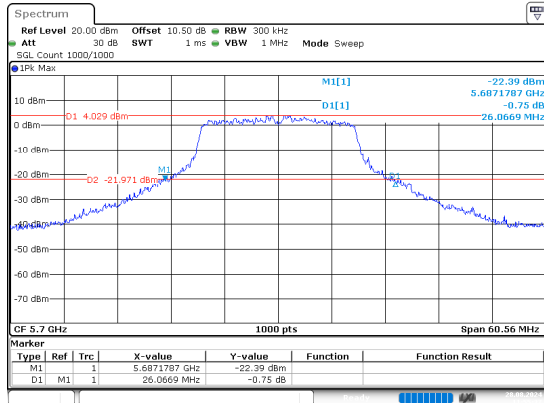
n20\_5500MHz



n20\_5580MHz

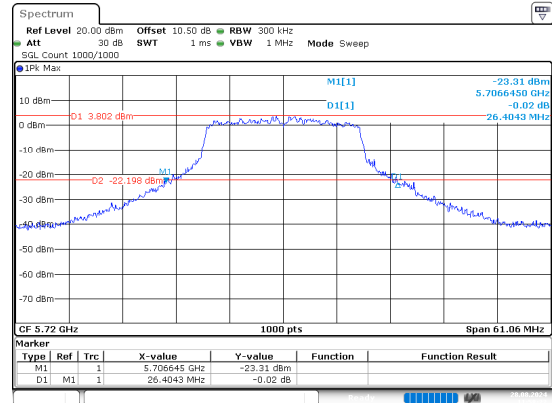


## n20\_5700MHz



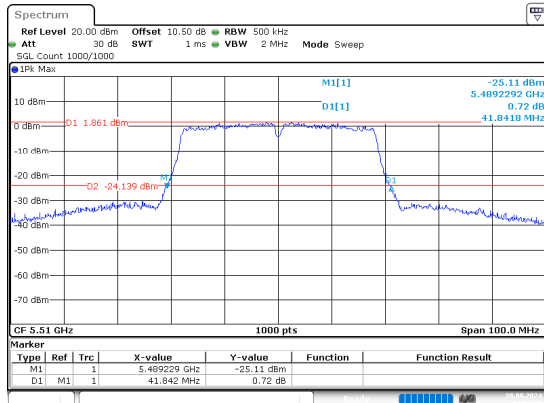
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:53:37

## n20\_5720MHz



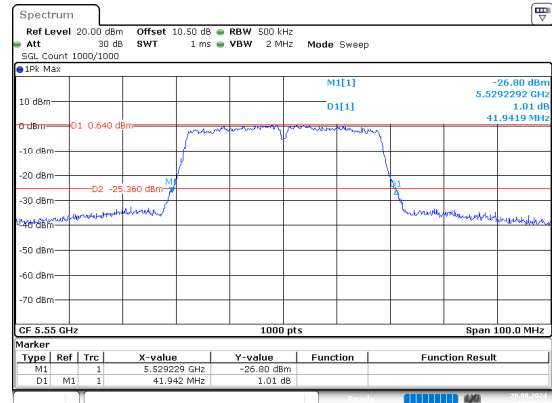
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:58:23

## n40\_5510MHz



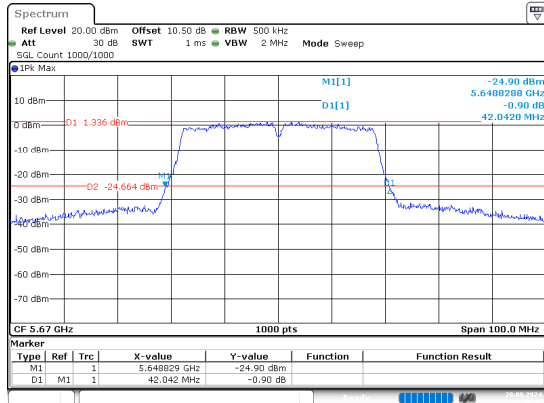
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:07:30

## n40\_5550MHz



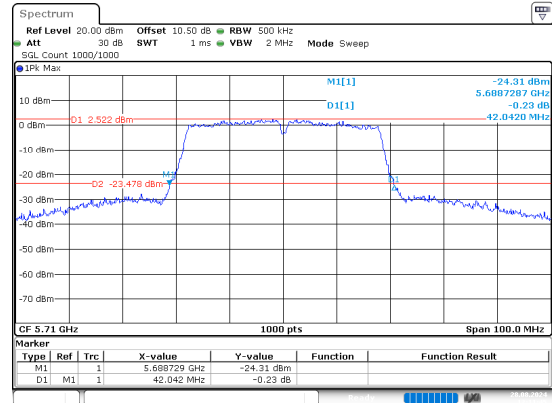
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:08:44

## n40\_5670MHz



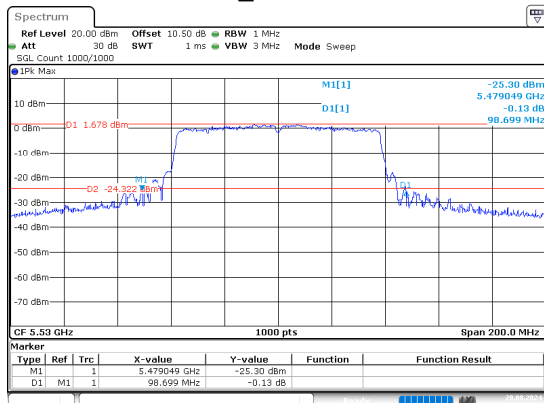
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:10:32

## n40\_5710MHz



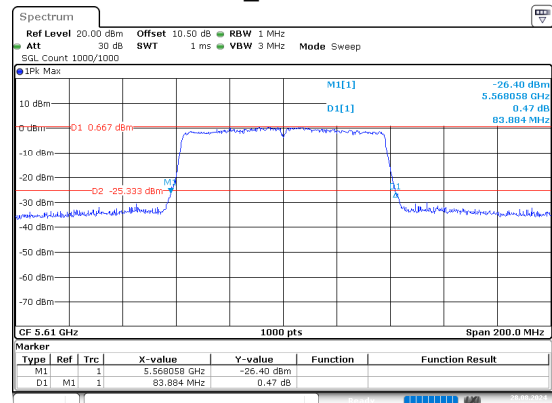
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:11:46

## ac80\_5530MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:13:23

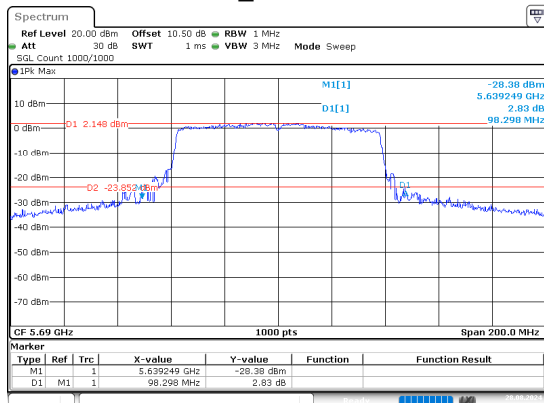
## ac80\_5610MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:15:00

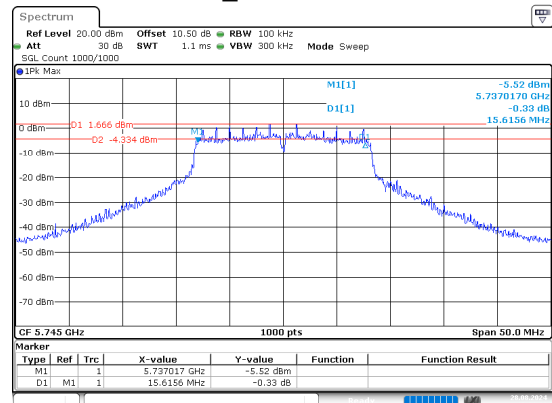
## 5.8G

## ac80\_5690MHz



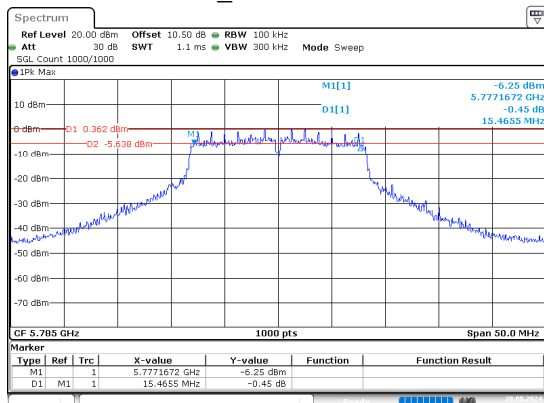
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:16:16

## a\_5745MHz



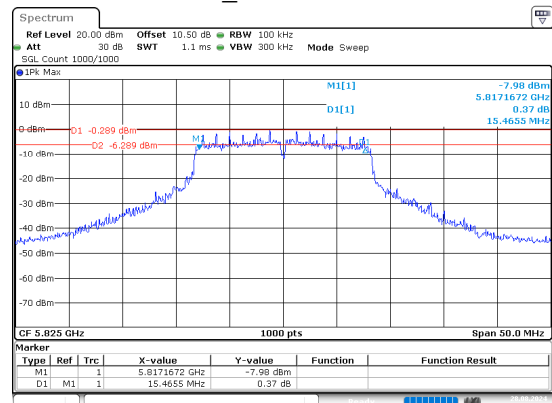
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:21:34

## a\_5785MHz



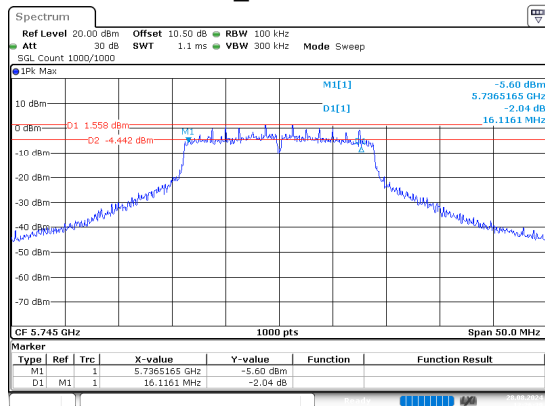
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:23:19

## a\_5825MHz



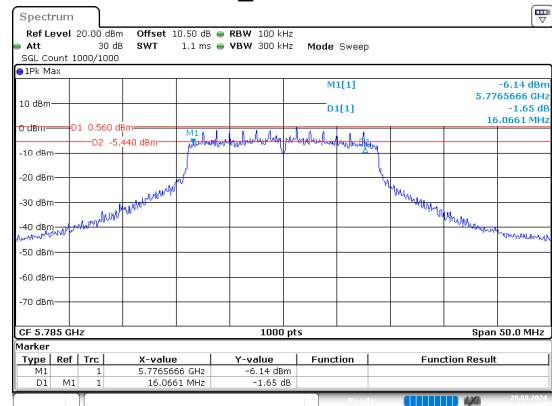
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:24:46

## n20\_5745MHz



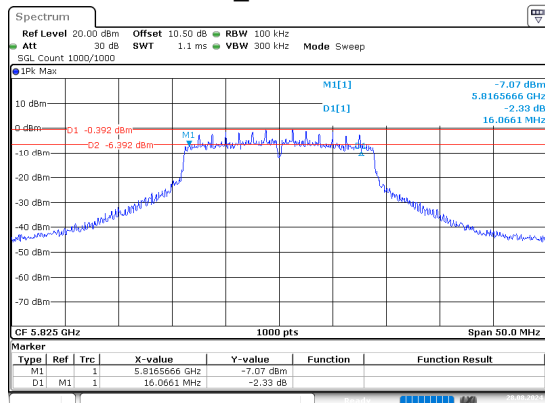
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:26:39

## n20\_5785MHz



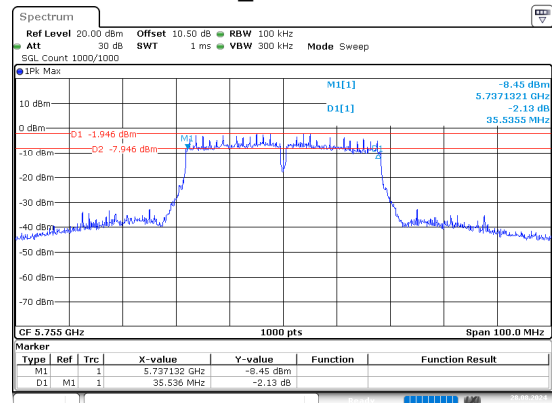
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:28:23

## n20\_5825MHz



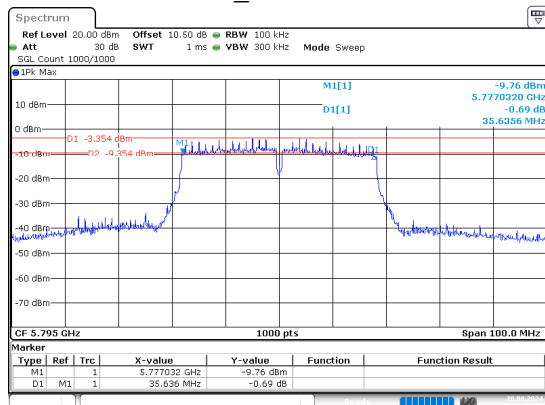
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:29:44

## n40\_5755MHz



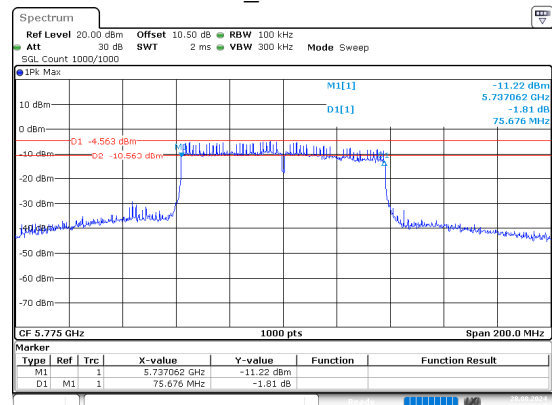
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:32:37

## n40\_5795MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:34:11

## ac80\_5775MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:35:52



**5.4 99% Occupied Bandwidth****Test Information:**

<b>Sample No.:</b>	2QAQ-5	<b>Test Date:</b>	2024/08/28~2024/09/19
<b>Test Site:</b>	RF	<b>Test Mode:</b>	Transmitting
<b>Tester:</b>	Roy Xiao	<b>Test Result:</b>	/

**Environmental Conditions:**

<b>Temperature: (°C):</b>	25.9-26.1	<b>Relative Humidity: (%)</b>	41-50	<b>ATM Pressure: (kPa)</b>	99.8-100.4
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/07

*\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**5.2G**

Mode	99% OBW (MHz)
a_5180MHz	16.950
a_5200MHz	17.650
a_5240MHz	17.250
n20_5180MHz	17.800
n20_5200MHz	17.800
n20_5240MHz	17.950
n40_5190MHz	36.300
n40_5230MHz	36.400
ac80_5210MHz	76.200

**Note:**

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

**5.3G**

Mode	99% OBW (MHz)
a_5260MHz	17.950
a_5280MHz	18.600
a_5320MHz	19
n20_5260MHz	18.150
n20_5280MHz	19.250
n20_5320MHz	18.850
n40_5270MHz	36.300
n40_5310MHz	36.400
ac80_5290MHz	75.800

**5.6G**

Mode	99% OBW (MHz)
a_5500MHz	16.700
a_5580MHz	16.650
a_5700MHz	16.750
a_5720MHz	16.750
n20_5500MHz	17.850
n20_5580MHz	17.850
n20_5700MHz	17.900
n20_5720MHz	17.900
n40_5510MHz	36.400
n40_5550MHz	36.400
n40_5670MHz	36.400
n40_5710MHz	36.400
ac80_5530MHz	76
ac80_5610MHz	75.600
ac80_5690MHz	76

**5.8G**

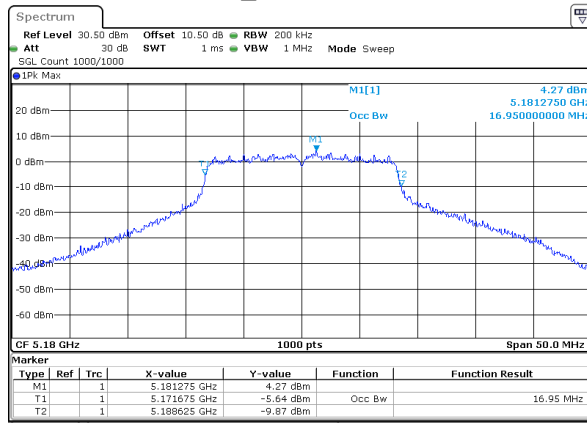
Mode	99% OBW (MHz)
a_5745MHz	16.650
a_5785MHz	16.600
a_5825MHz	16.650
n20_5745MHz	17.900
n20_5785MHz	17.850
n20_5825MHz	17.850
n40_5755MHz	36.300
n40_5795MHz	36.300
ac80_5775MHz	76

**Note:**

The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

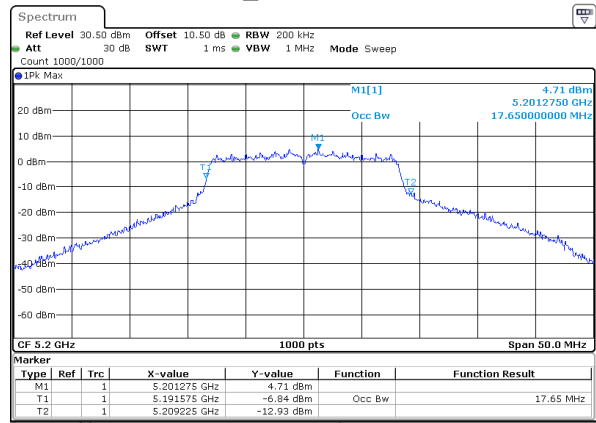
## 5.2G

a\_5180MHz



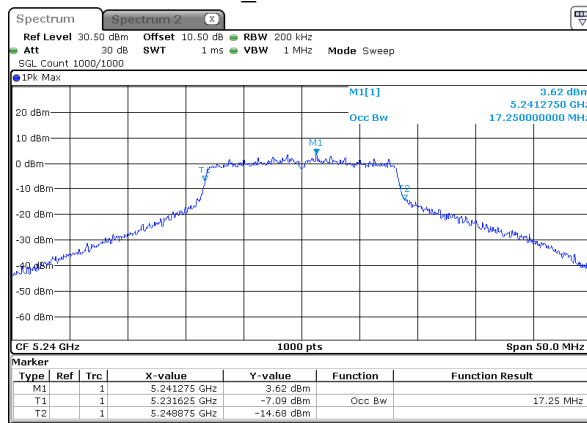
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 19.SEP.2024 18:05:57

a\_5200MHz



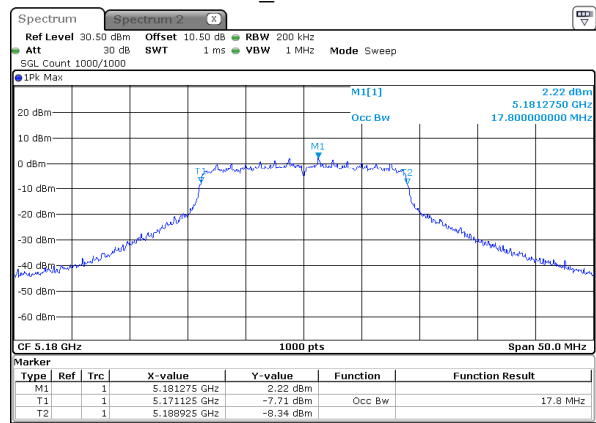
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 19.SEP.2024 18:07:58

a\_5240MHz



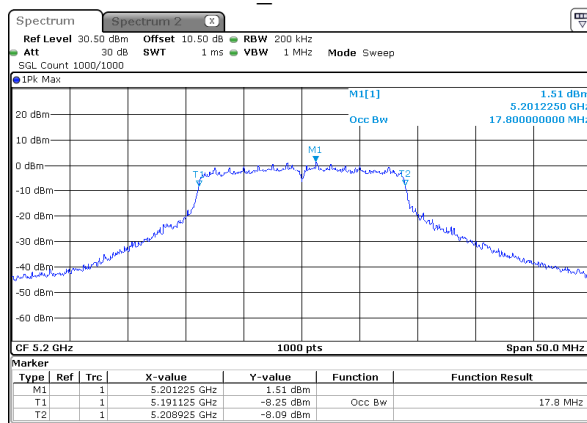
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 19.SEP.2024 18:19:58

n20\_5180MHz



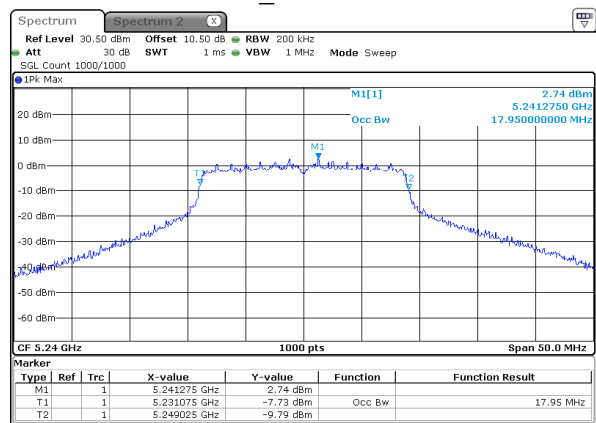
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 19.SEP.2024 18:21:38

n20\_5200MHz



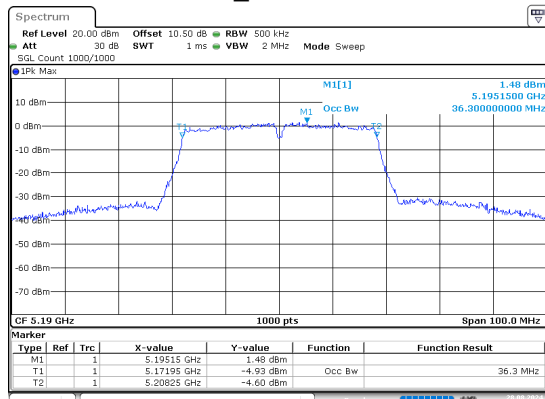
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Date: 19.SEP.2024 18:22:04

n20\_5240MHz



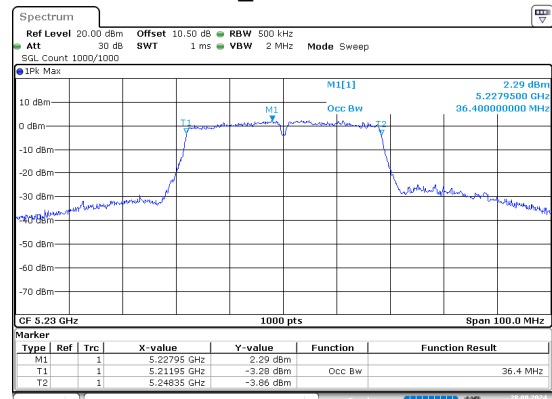
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 19.SEP.2024 18:22:37

## n40\_5190MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:19:47

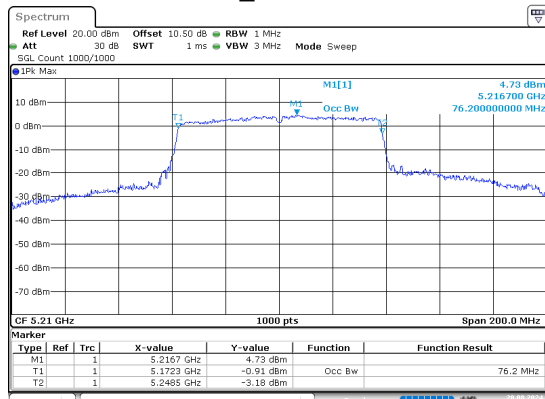
## n40\_5230MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:21:02

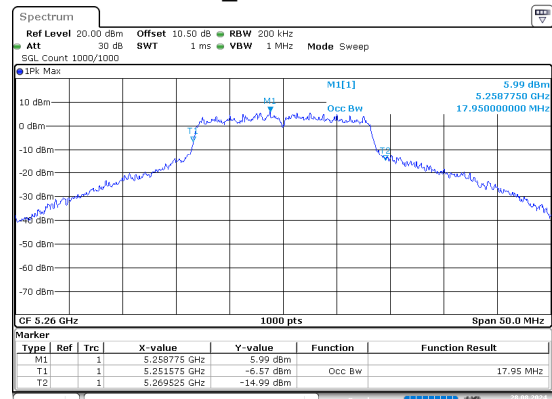
## 5.3G

## ac80\_5210MHz



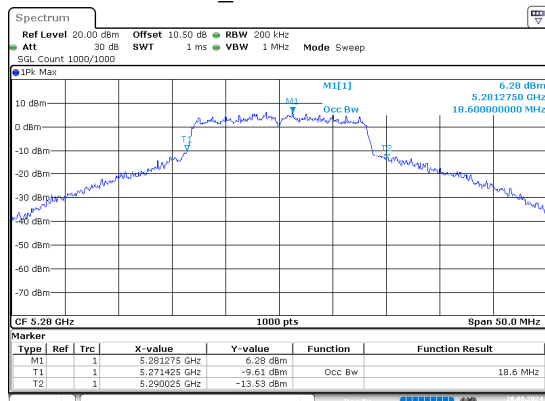
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:22:49

## a\_5260MHz



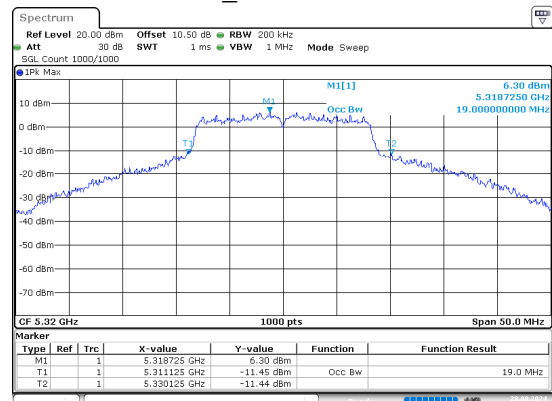
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:24:41

## a\_5280MHz



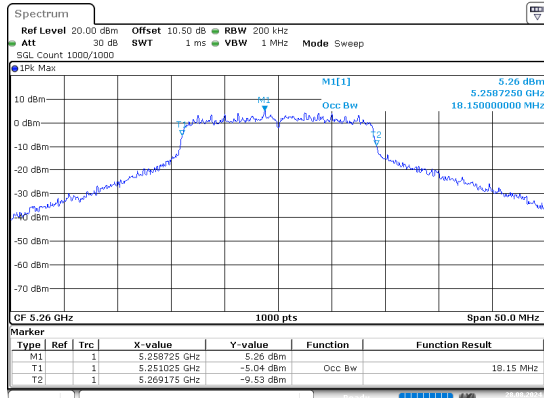
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:27:28

## a\_5320MHz



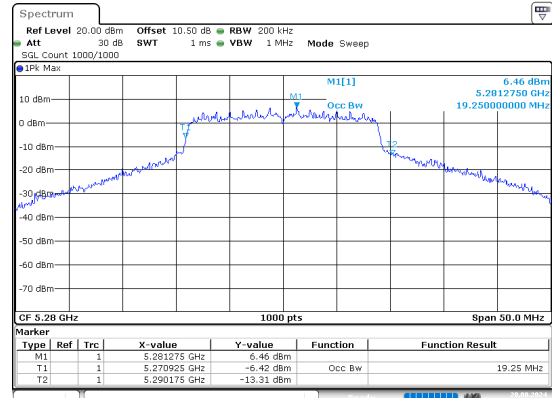
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:29:07

## n20\_5260MHz



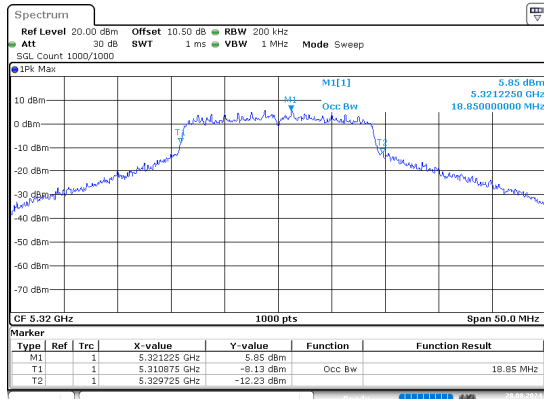
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:31:12

## n20\_5280MHz



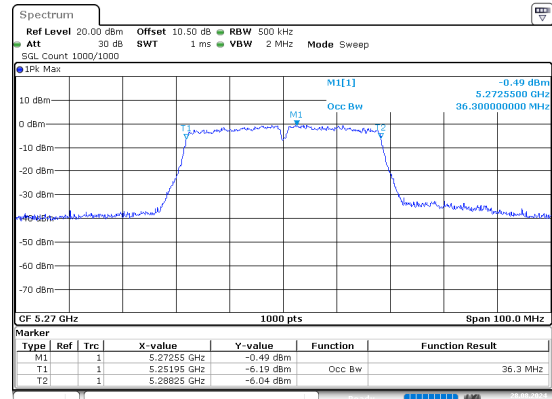
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:32:44

## n20\_5320MHz



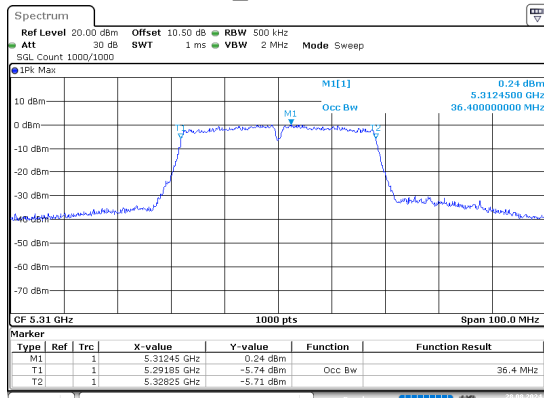
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:34:13

## n40\_5270MHz



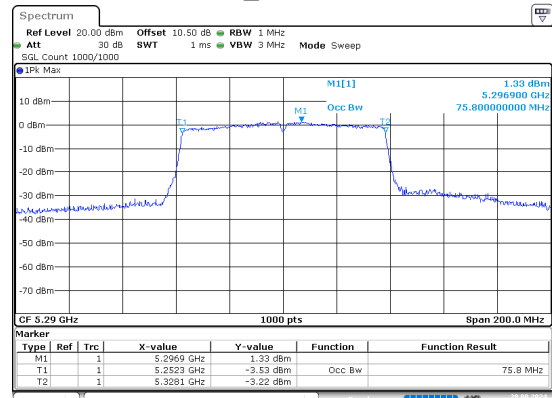
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:36:03

## n40\_5310MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:38:16

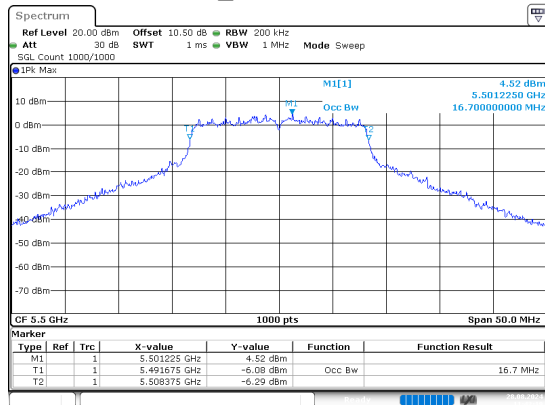
## ac80\_5290MHz



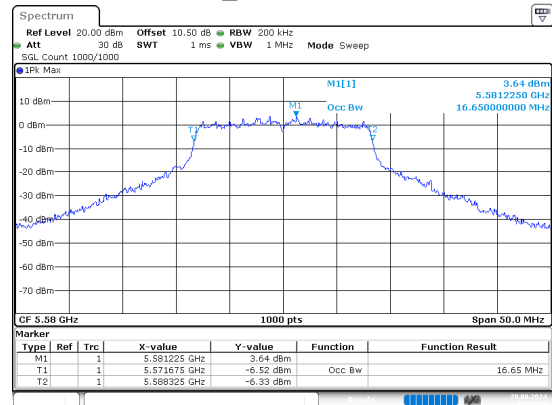
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:40:29

## 5.6G

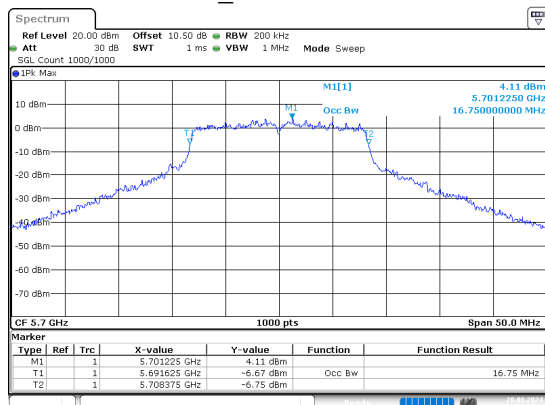
## a\_5500MHz



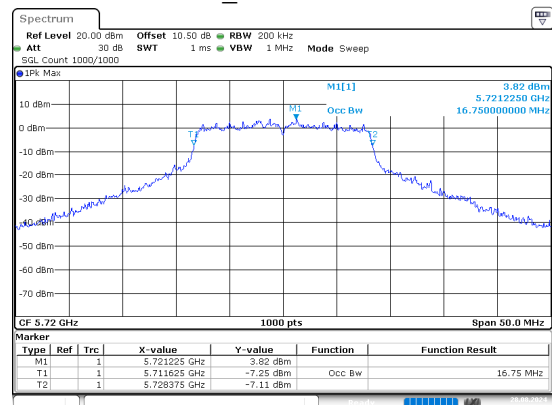
## a\_5580MHz



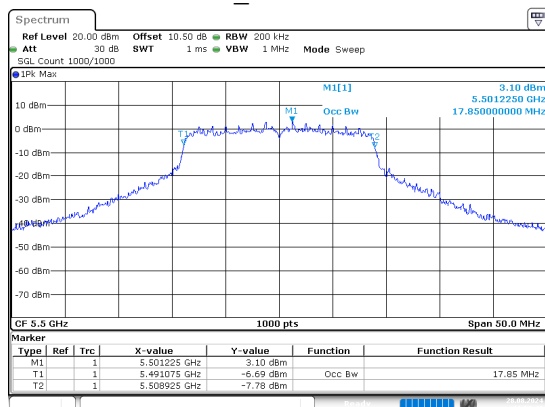
## a\_5700MHz



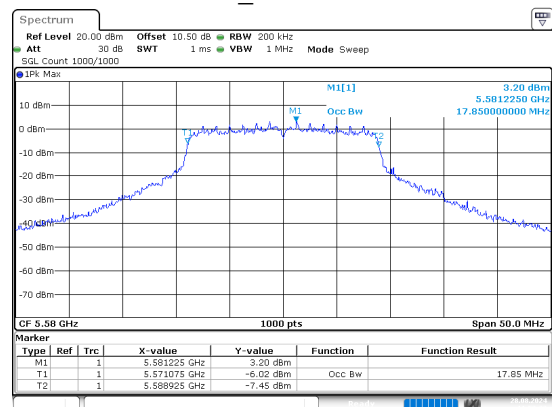
## a\_5720MHz



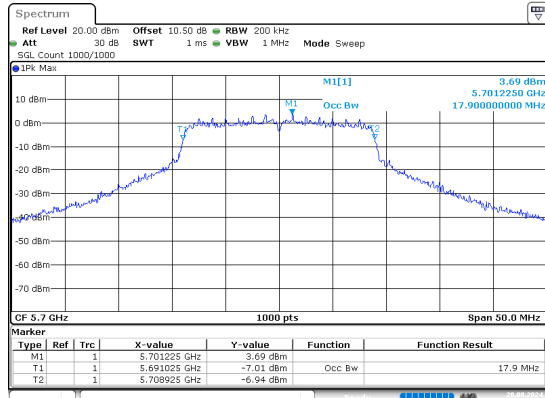
## n20\_5500MHz



## n20\_5580MHz

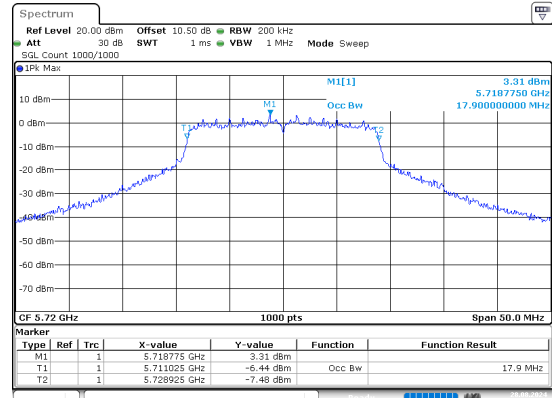


## n20\_5700MHz



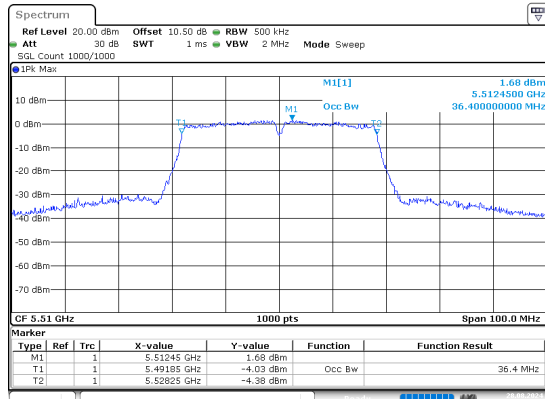
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:55:02

## n20\_5720MHz



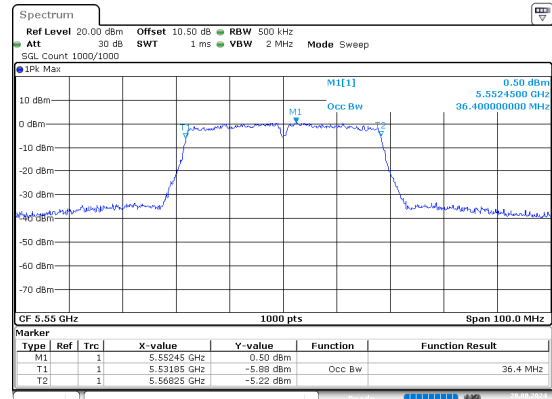
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:57:50

## n40\_5510MHz



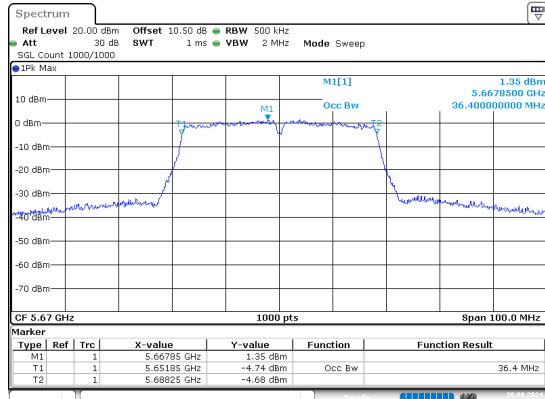
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Date: 28.AUG.2024 13:07:12

## n40\_5550MHz



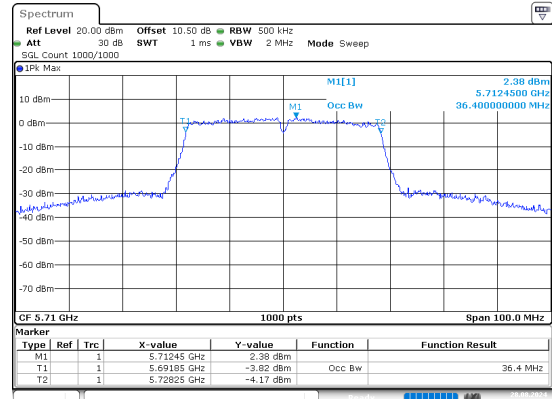
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:08:26

## n40\_5670MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:10:17

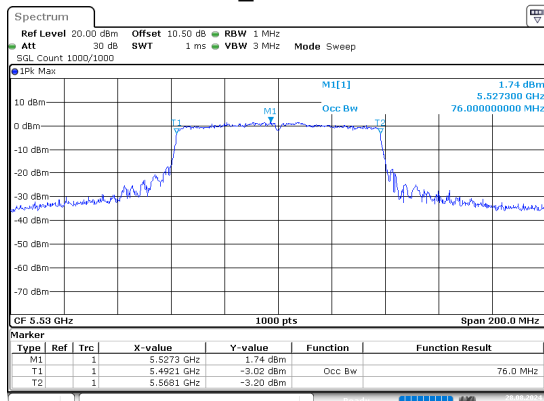
## n40\_5710MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:11:30

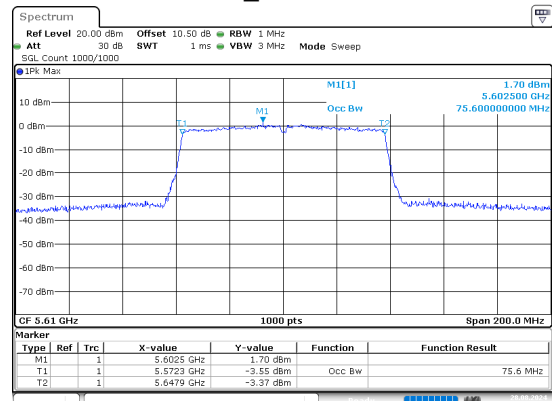


## ac80\_5530MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:13:04

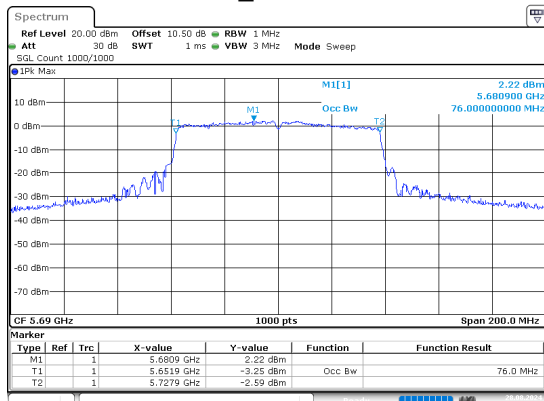
## ac80\_5610MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:14:41

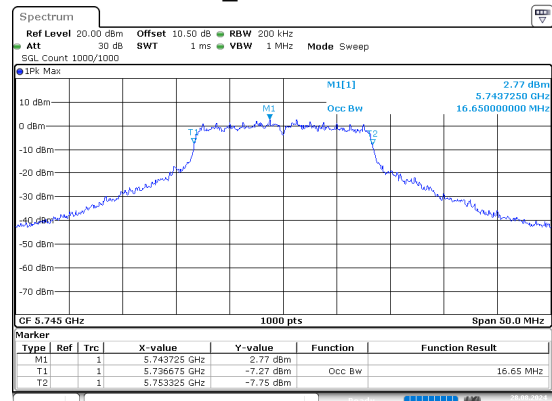
## 5.8G

## ac80\_5690MHz



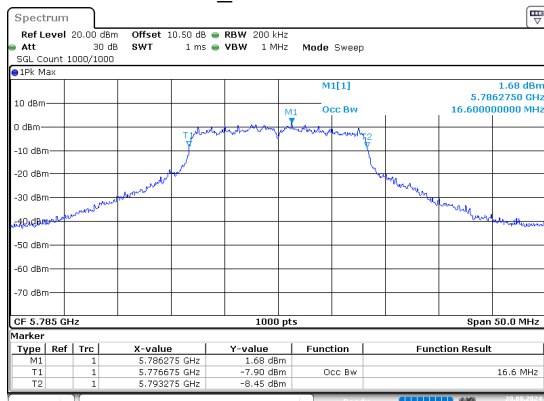
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:15:58

## a\_5745MHz



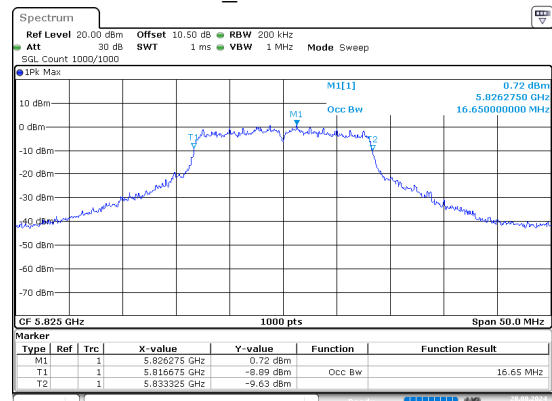
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:21:09

## a\_5785MHz



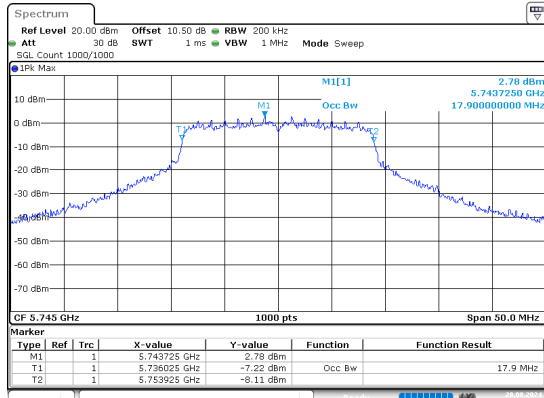
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Date: 28.AUG.2024 13:22:50

## a\_5825MHz



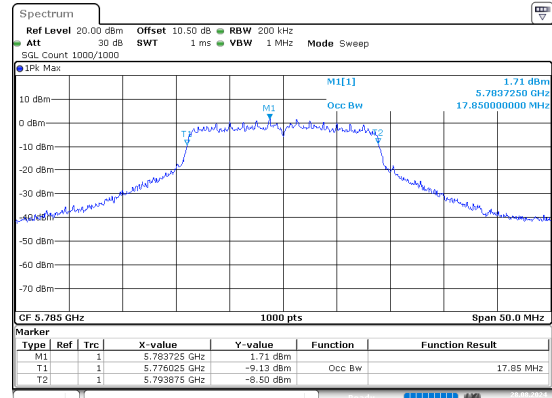
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:24:28

## n20\_5745MHz



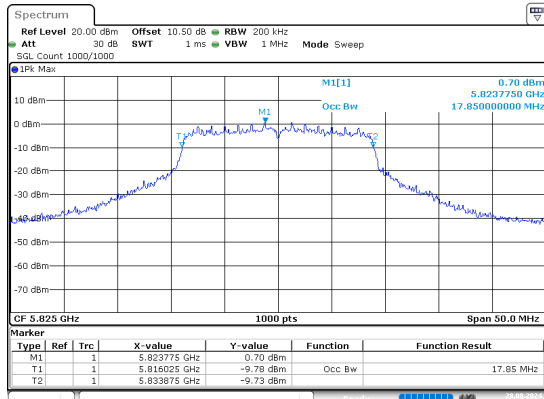
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Date: 28.AUG.2024 13:26:13

## n20\_5785MHz



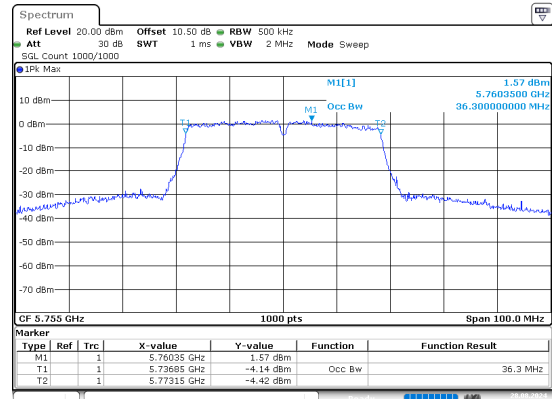
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:27:53

## n20\_5825MHz



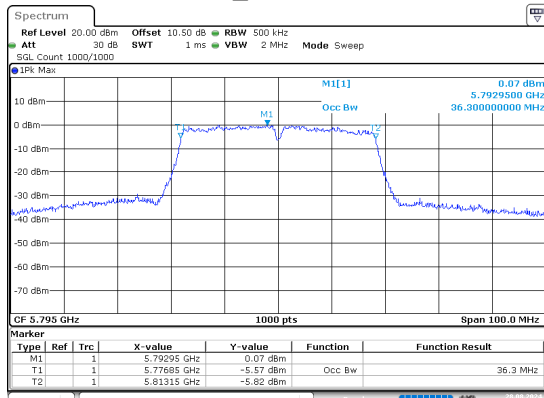
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:29:24

## n40\_5755MHz



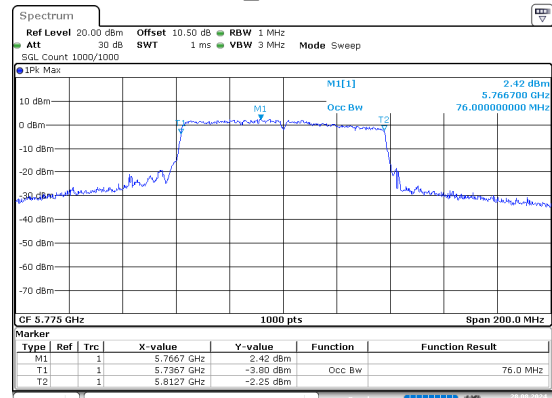
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:32:25

## n40\_5795MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:33:59

## ac80\_5775MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:35:35

5.5 Maximum Conducted Output Power

Test Information:

Sample No.:	2QAAQ-5	Test Date:	2024/08/28
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.1	Relative Humidity: (%)	41	ATM Pressure: (kPa)	99.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Microwave Peak Power Sensor	MA24418A	12618	2023/09/04	2024/09/03
Eastsheep	Coaxial Attenuator	5W-N-JK- 6G-10dB	F-08-EM503	2024/06/07	2025/06/07

*\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**5.2G**

Mode	Average Output Power (dBm)	Limit (dBm)	Result
a_5180MHz	14.71	24	Pass
a_5200MHz	15.17	24	Pass
a_5240MHz	<b>16.03</b>	24	Pass
n20_5180MHz	14.98	24	Pass
n20_5200MHz	15.43	24	Pass
n20_5240MHz	15.43	24	Pass
n40_5190MHz	10.81	24	Pass
n40_5230MHz	11.93	24	Pass
ac80_5210MHz	12.86	24	Pass

Note: The device is a Client device.

**5.3G**

Mode	Average Output Power (dBm)	Limit (dBm)	Result
a_5260MHz	14.62	24	Pass
a_5280MHz	14.89	24	Pass
a_5320MHz	<b>15.15</b>	24	Pass
n20_5260MHz	13.57	24	Pass
n20_5280MHz	14.8	24	Pass
n20_5320MHz	14.21	24	Pass
n40_5270MHz	9.09	24	Pass
n40_5310MHz	9.64	24	Pass
ac80_5290MHz	9.66	24	Pass

**5.6G**

Mode	Average Output Power (dBm)	Limit (dBm)	Result
a_5500MHz	13.01	24	Pass
a_5580MHz	12.2	24	Pass
a_5700MHz	12.66	24	Pass
a_5720MHz	12.27	24	Pass
n20_5500MHz	11.33	24	Pass
n20_5580MHz	11.57	24	Pass
n20_5700MHz	12.03	24	Pass
n20_5720MHz	11.7	24	Pass
n40_5510MHz	11.13	24	Pass
n40_5550MHz	10.15	24	Pass
n40_5670MHz	10.7	24	Pass
n40_5710MHz	11.74	24	Pass
ac80_5530MHz	10.05	24	Pass
ac80_5610MHz	9.02	24	Pass
ac80_5690MHz	10.56	24	Pass

**5.8G**

Mode	Average Output Power (dBm)	Limit (dBm)	Result
a_5745MHz	11.1	30	Pass
a_5785MHz	9.96	30	Pass
a_5825MHz	9.0	30	Pass
n20_5745MHz	10.79	30	Pass
n20_5785MHz	9.69	30	Pass
n20_5825MHz	8.71	30	Pass
n40_5755MHz	10.98	30	Pass
n40_5795MHz	9.47	30	Pass
ac80_5775MHz	10.63	30	Pass

## 5.6 Power Spectral Density

### Test Information:

Sample No.:	2QAQ-5	Test Date:	2024/08/28~2024/09/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	Pass

### Environmental Conditions:

Temperature: (°C):	23.9-26.1	Relative Humidity: (%)	41-50	ATM Pressure: (kPa)	99.8-100.2
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### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/07

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**5.2G**

Mode	Value (dBm/MHz)	Duty Cycle Factor(dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
a_5180MHz	4.28	0	4.28	11	Pass
a_5200MHz	4.91	0	4.91	11	Pass
a_5240MHz	5.53	0	5.53	11	Pass
n20_5180MHz	4.24	0	4.24	11	Pass
n20_5200MHz	4.82	0	4.82	11	Pass
n20_5240MHz	4.85	0	4.85	11	Pass
n40_5190MHz	-2.68	0.17	-2.51	11	Pass
n40_5230MHz	-2.01	0.17	-1.84	11	Pass
ac80_5210MHz	-4.45	0.34	-4.11	11	Pass

Note: The device is a Client device.

**5.3G**

Mode	Value (dBm/MHz)	Duty Cycle Factor(dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
a_5260MHz	4.33	0	4.33	11	Pass
a_5280MHz	4.56	0	4.56	11	Pass
a_5320MHz	4.69	0	4.69	11	Pass
n20_5260MHz	2.61	0	2.61	11	Pass
n20_5280MHz	4.07	0	4.07	11	Pass
n20_5320MHz	3.50	0	3.50	11	Pass
n40_5270MHz	-4.58	0.17	-4.41	11	Pass
n40_5310MHz	-4.42	0.17	-4.25	11	Pass
ac80_5290MHz	-6.89	0.34	-6.55	11	Pass

**5.6G**

Mode	Value (dBm/MHz)	Duty Cycle Factor(dB)	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
a_5500MHz	2.55	0	2.55	11	Pass
a_5580MHz	1.92	0	1.92	11	Pass
a_5700MHz	2.42	0	2.42	11	Pass
a_5720MHz	2.14	0	2.14	11	Pass
n20_5500MHz	0.70	0	0.70	11	Pass
n20_5580MHz	0.87	0	0.87	11	Pass
n20_5700MHz	1.54	0	1.54	11	Pass
n20_5720MHz	1.31	0	1.31	11	Pass
n40_5510MHz	-2.42	0.17	-2.25	11	Pass
n40_5550MHz	-3.58	0.17	-3.41	11	Pass
n40_5670MHz	-2.93	0.17	-2.76	11	Pass
n40_5710MHz	-2.16	0.17	-1.99	11	Pass
ac80_5530MHz	-6.85	0.34	-6.51	11	Pass
ac80_5610MHz	-7.76	0.34	-7.42	11	Pass
ac80_5690MHz	-6.02	0.34	-5.68	11	Pass

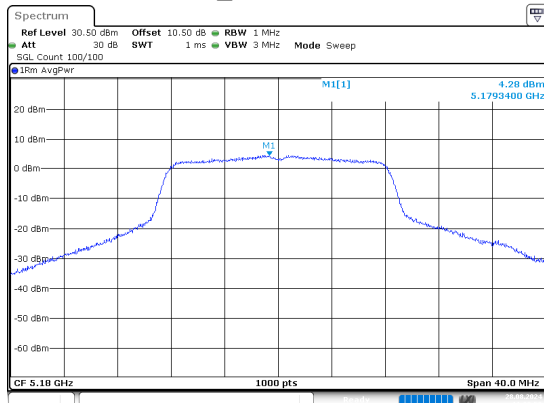
**5.8G**

Mode	Value (dBm/500kHz)	Duty Cycle Factor(dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
a_5745MHz	-1.82	0	-1.82	30	Pass
a_5785MHz	-2.93	0	-2.93	30	Pass
a_5825MHz	-3.77	0	-3.77	30	Pass
n20_5745MHz	-2.29	0	-2.29	30	Pass
n20_5785MHz	-3.26	0	-3.26	30	Pass
n20_5825MHz	-4.60	0	-4.60	30	Pass
n40_5755MHz	-5.72	0.17	-5.55	30	Pass
n40_5795MHz	-7.33	0.17	-7.16	30	Pass
ac80_5775MHz	-8.60	0.34	-8.26	30	Pass

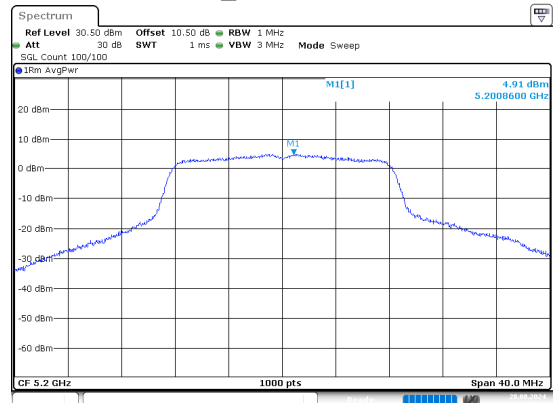


## 5.2G

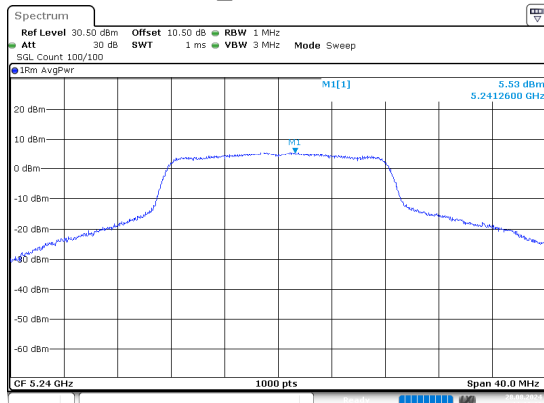
a\_5180MHz



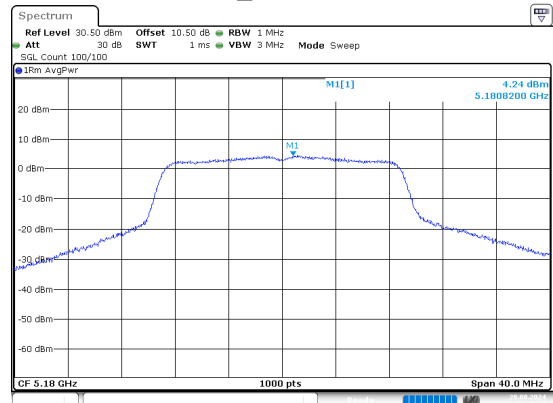
a\_5200MHz



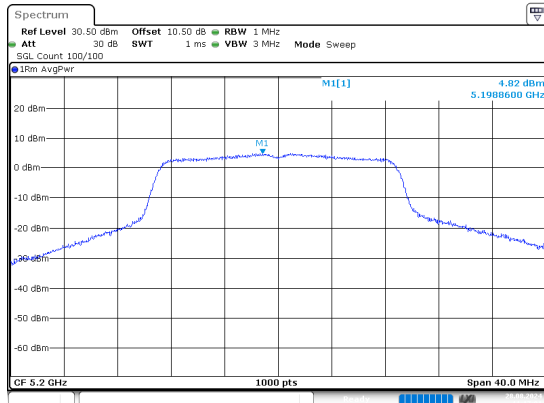
a\_5240MHz



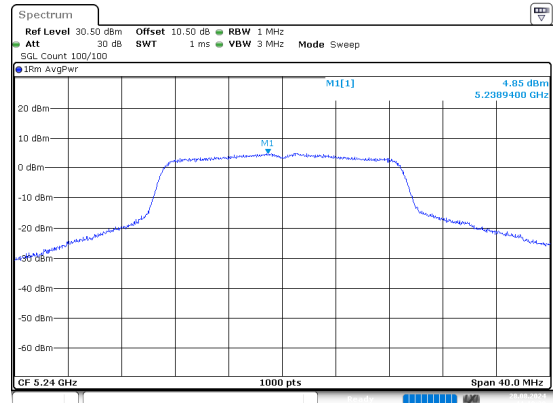
n20\_5180MHz



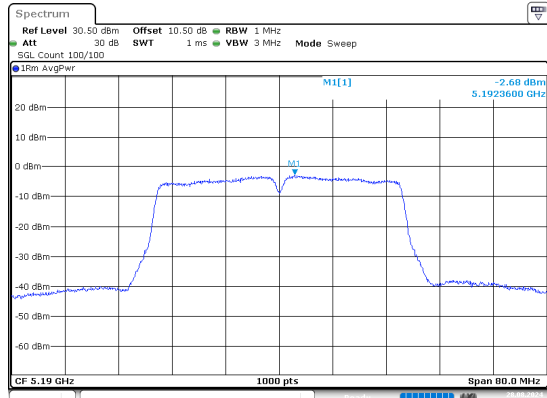
n20\_5200MHz



n20\_5240MHz

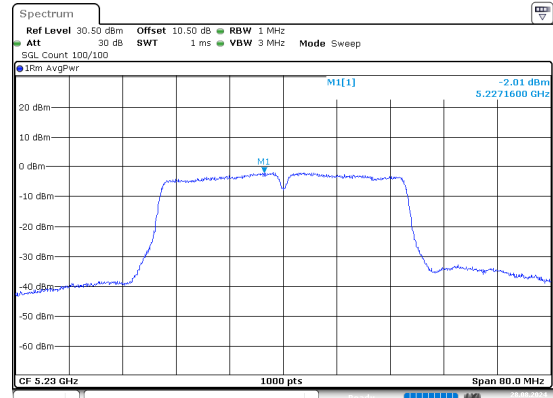


n40\_5190MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 26.AUG.2024 11:20:23

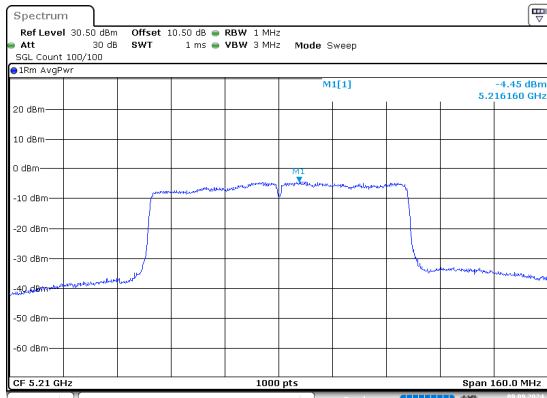
n40\_5230MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 26.AUG.2024 11:21:38

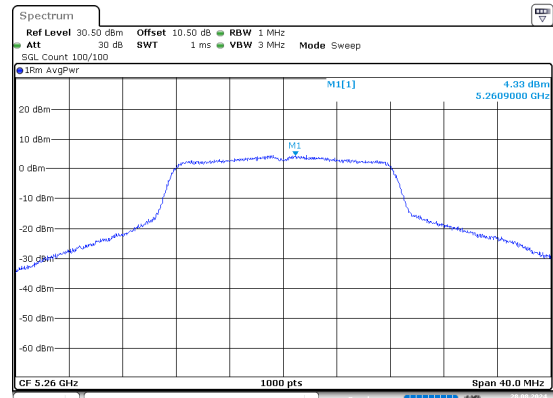
## 5.3G

ac80\_5210MHz



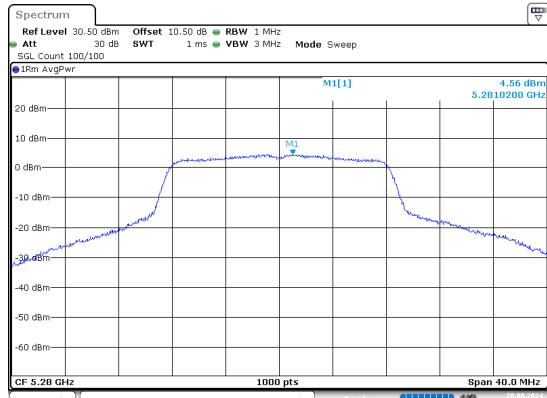
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Date: 9.SEP.2024 20:24:49

a\_5260MHz



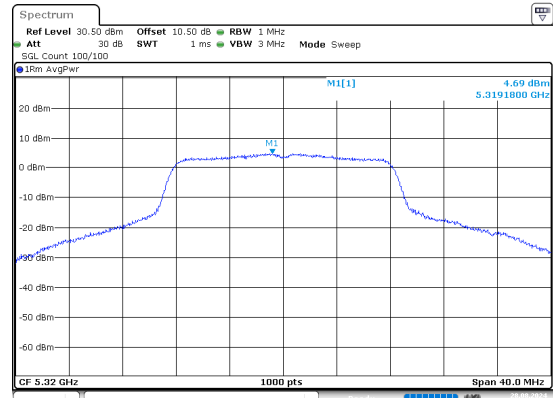
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Date: 26.AUG.2024 11:25:33

a\_5280MHz



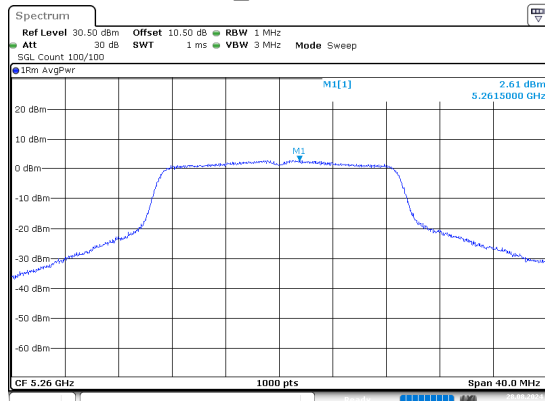
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Date: 26.AUG.2024 11:28:26

a\_5320MHz



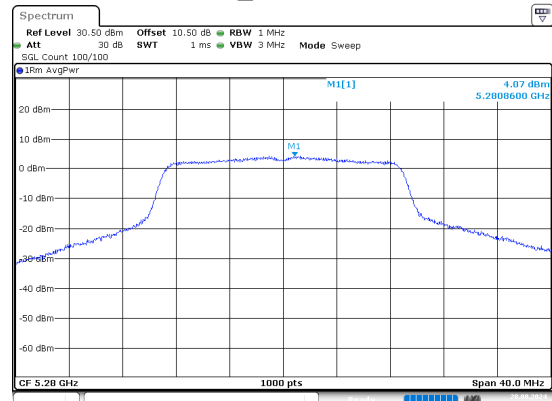
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Date: 26.AUG.2024 11:30:04

n20\_5260MHz



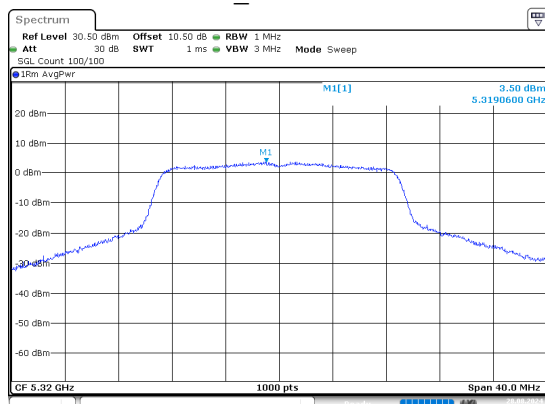
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Date: 28.AUG.2024 11:32:06

n20\_5280MHz



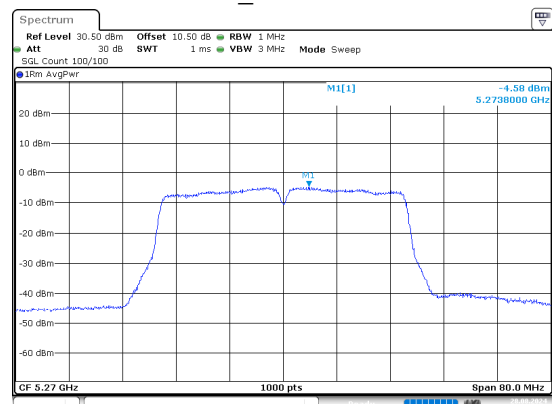
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Date: 28.AUG.2024 11:33:35

n20\_5320MHz



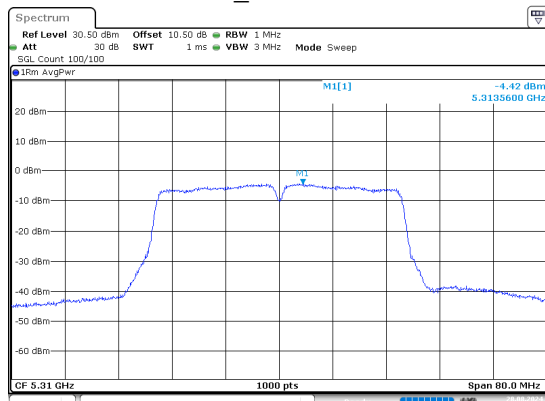
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:32:02

n40\_5270MHz



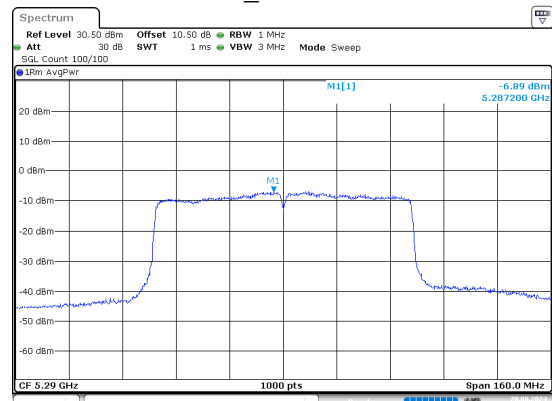
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:36:38

n40\_5310MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:39:56

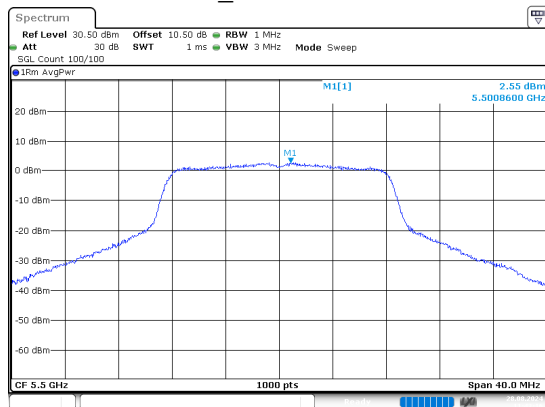
ac80\_5290MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:41:09

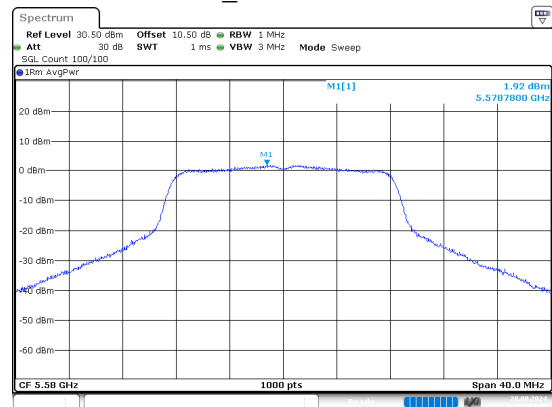
## 5.6G

a\_5500MHz



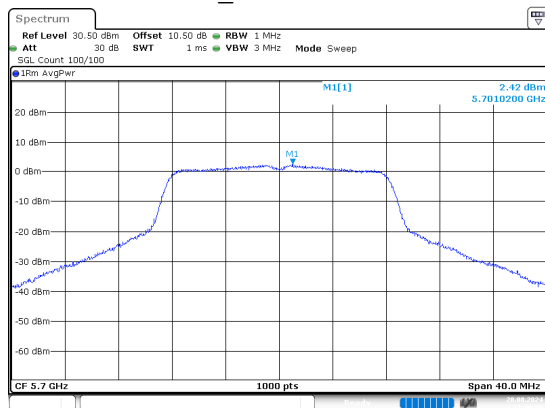
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:43:16

a\_5580MHz



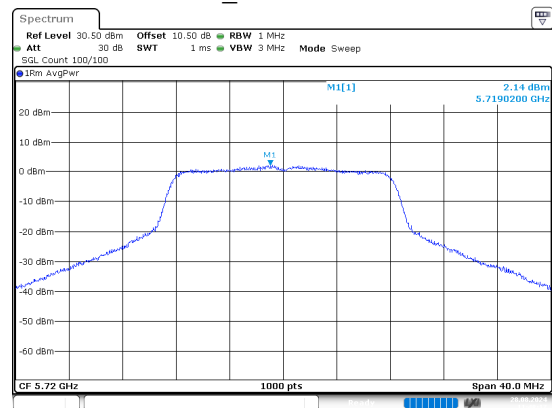
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:44:49

a\_5700MHz



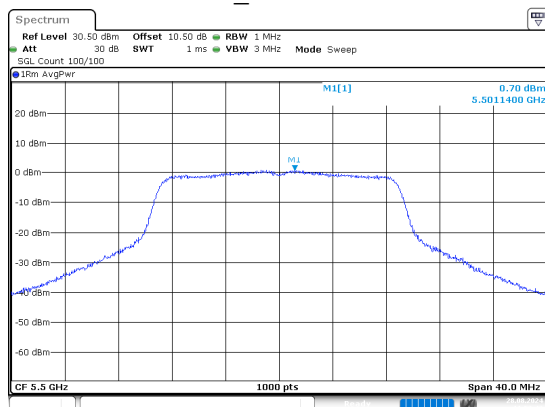
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:46:50

a\_5720MHz



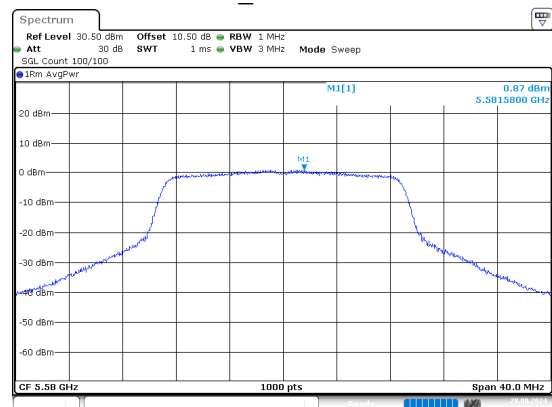
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:48:18

n20\_5500MHz



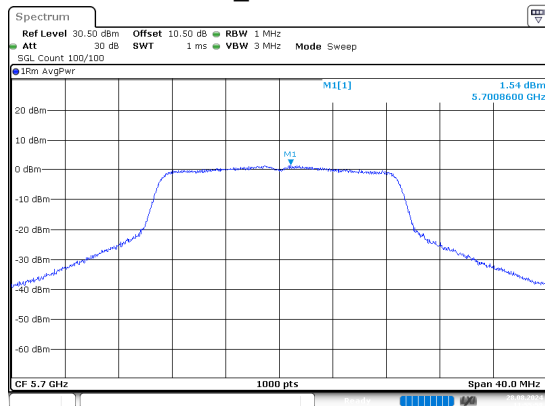
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Date: 28.AUG.2024 11:52:42

n20\_5580MHz



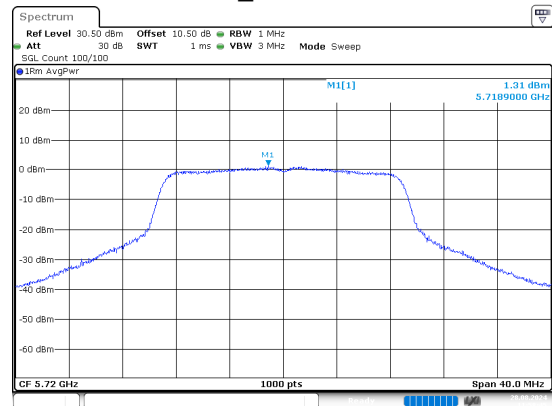
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:54:24

n20\_5700MHz



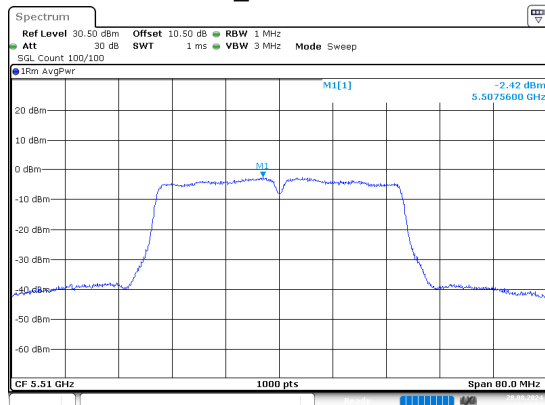
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:55:58

n20\_5720MHz



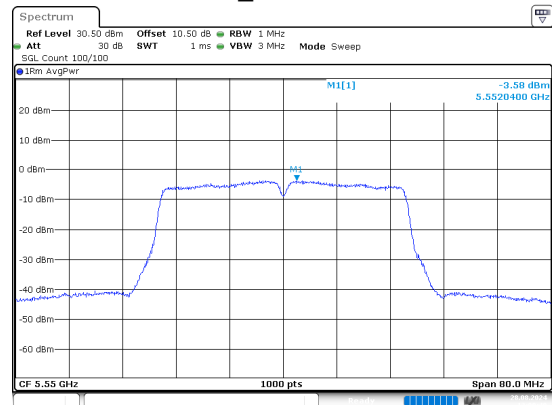
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 11:58:45

n40\_5510MHz



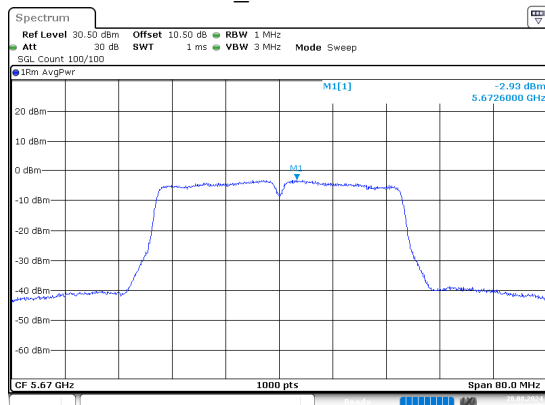
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:07:53

n40\_5550MHz



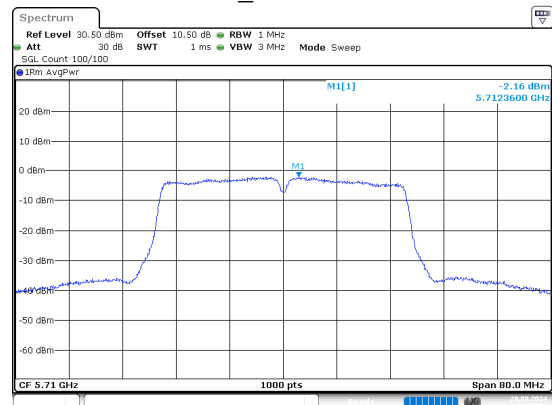
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:09:40

n40\_5670MHz



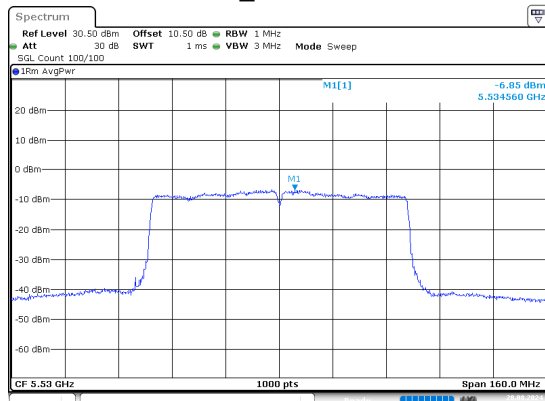
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:10:56

n40\_5710MHz



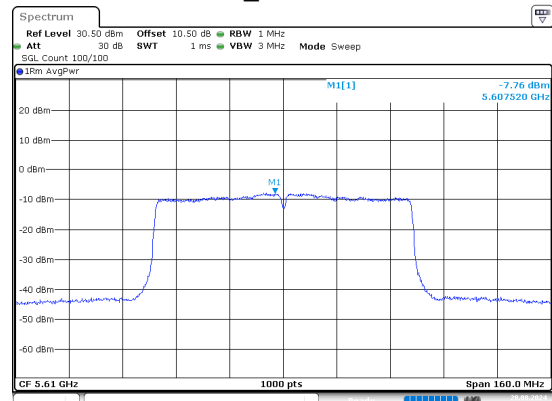
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:12:11

ac80\_5530MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:13:48

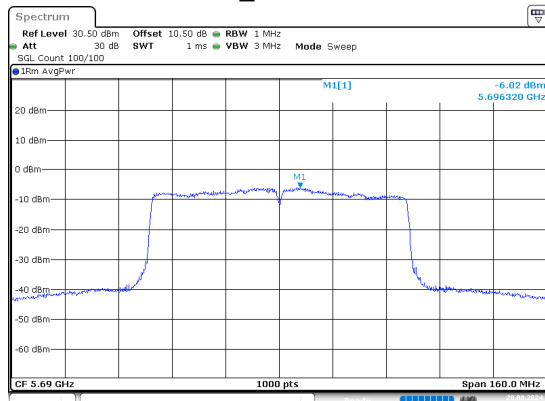
ac80\_5610MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:15:24

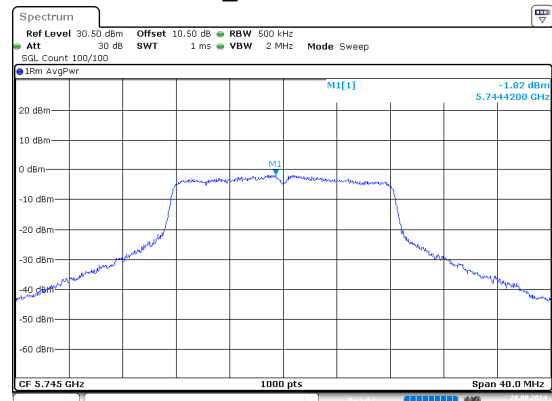
## 5.8G

ac80\_5690MHz



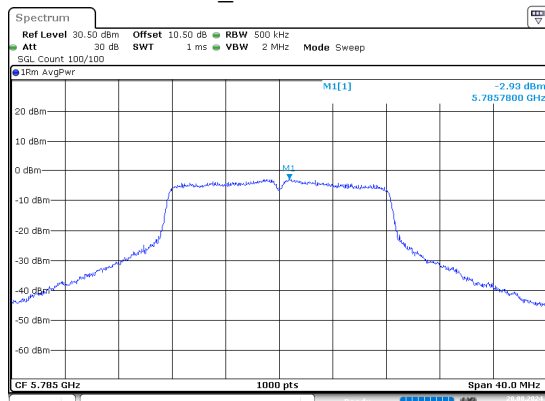
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:16:41

a\_5745MHz



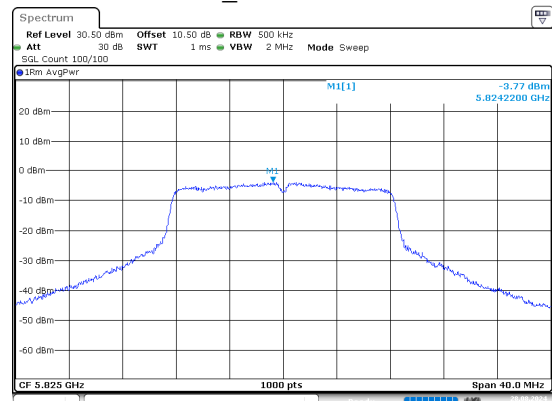
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:21:59

a\_5785MHz



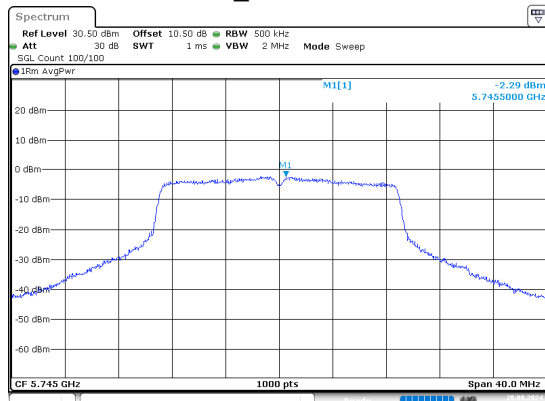
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:23:44

a\_5825MHz



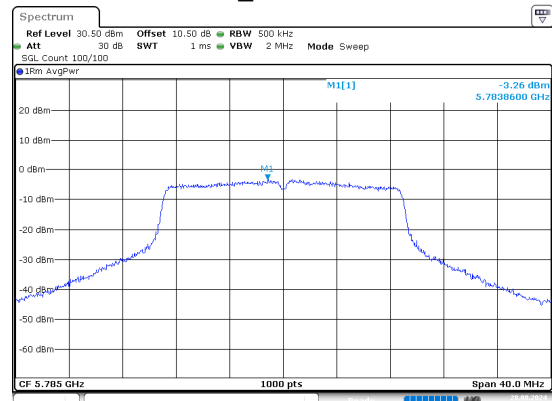
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:25:14

n20\_5745MHz



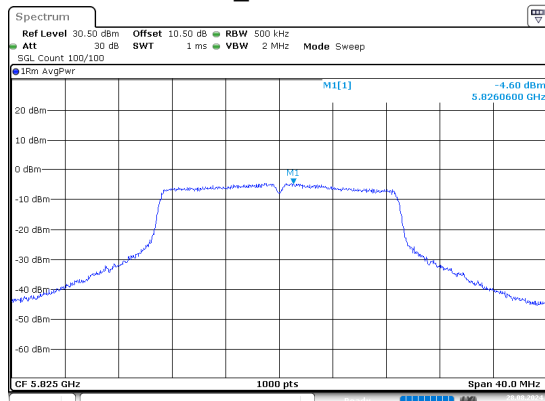
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:27:06

n20\_5785MHz



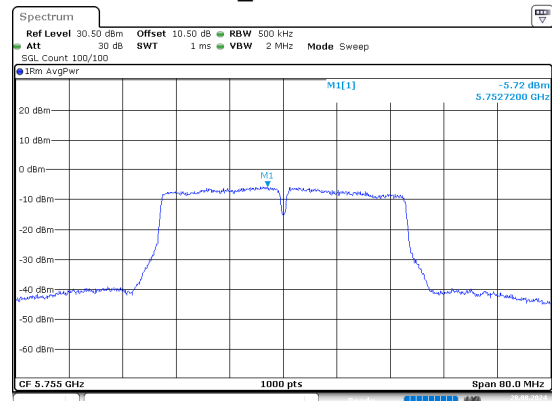
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:28:50

n20\_5825MHz



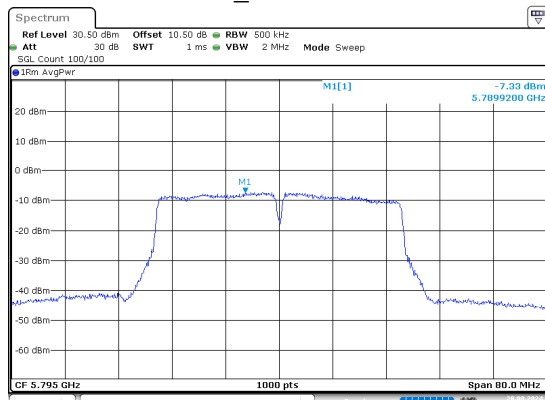
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:30:09

n40\_5755MHz



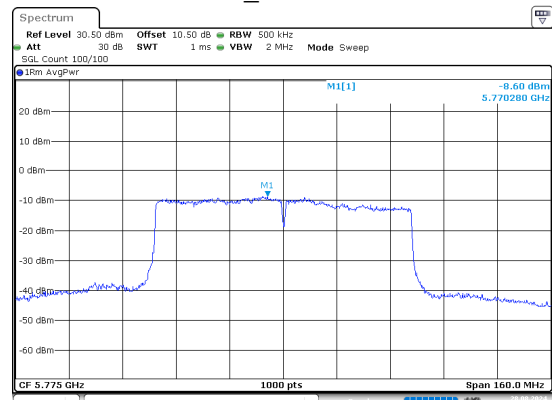
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:33:03

n40\_5795MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:34:36

ac80\_5775MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 13:37:23

## 5.7 Duty Cycle

### Test Information:

Sample No.:	2QAQ-5	Test Date:	2024/08/28~2024/09/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Roy Xiao	Test Result:	/

### Environmental Conditions:

Temperature: (°C):	23.9-26.1	Relative Humidity: (%)	41-50	ATM Pressure: (kPa)	99.8-100.2
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### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2023/10/18	2024/10/17
Eastsheep	Coaxial Attenuator	5W-N-JK-6G-10dB	F-08-EM503	2024/06/07	2025/06/07

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data:

#### 5.2G

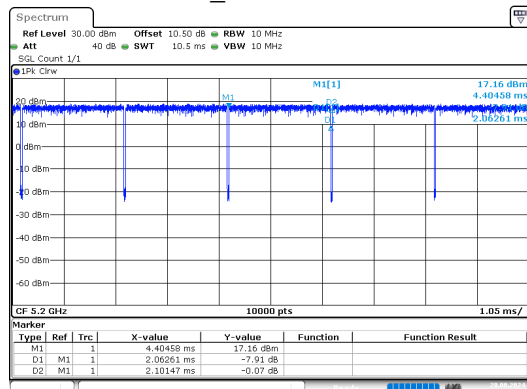
Mode	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
a_5200MHz	0.063	2.101	98.19	/	/	0.010
n20_5200MHz	1.922	1.961	98.01	/	/	0.010
n40_5190MHz	0.947	0.984	96.24	0.17	1056	2
ac80_5210MHz	0.463	0.501	92.42	0.34	2160	3

$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff})\times 100\%$$



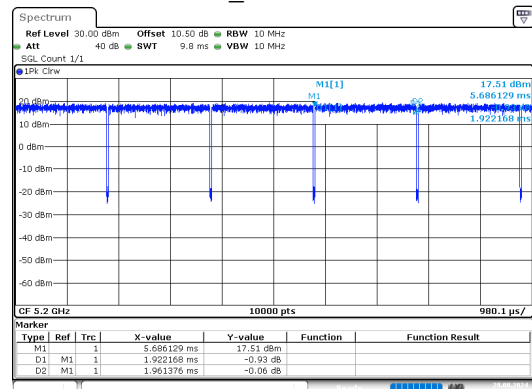
## 5.2G

a\_5200MHz



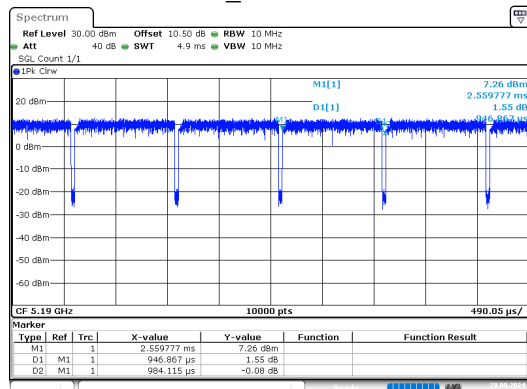
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 10:15:13

n20\_5200MHz



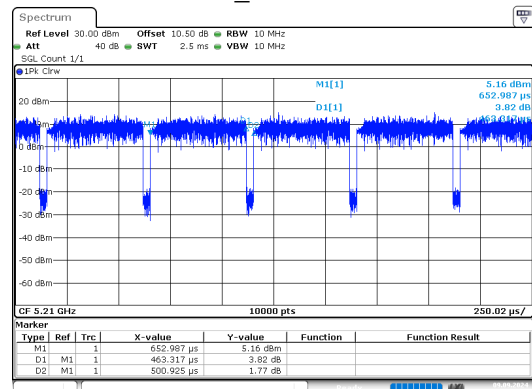
ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 10:17:39

n40\_5190MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 28.AUG.2024 10:19:20

ac80\_5210MHz



ProjectNo.:2402W90636E-RF Tester:Roy Xiao  
Date: 9.SEP.2024 20:23:27

## **EXHIBIT A - EUT PHOTOGRAPHS**

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Please refer to the attachment 2402W90636E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402W90636E-RF-INP EUT INTERNAL PHOTOGRAPHS.

## **EXHIBIT B - TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment 2402W90636E-RF-00D-TSP TEST SETUP PHOTOGRAPHS.

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