TEST REPORT

Applicant Name:	Autel Robotics Co., Ltd.
Address:	601,701,801,901, Block B1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China
Report Number:	2504X04187E-RF-00D
FCC ID:	2AGNTMDED600958A

Test Standard (s)

FCC PART 15.407

Sample Description

Product Name:	EVO III 4T Pro for Nest EVO III 4N Pro for Nest EVO III 3M Pro for Nest EVO III 4F Pro for Nest
Model No.:	MDED-L, MDED
Trade Mark:	AUTEL ROBOTICS
Date Received:	2025-09-30
Report Date:	2025-11-20

Test Result:	The EUT complied with the standards above.

Prepared and Checked By:

Matt Liang
EMC Engineer

Approved By:

Bob.Liao
EMC Engineer

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504X04187E-RF-00D	Original Report	2025-11-20

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	EVO III 4T Pro for Nest EVO III 4N Pro for Nest EVO III 3M Pro for Nest EVO III 4F Pro for Nest
Tested Model	MDED-L
Multiple Model	MDED
Model Difference#	MDED-L has a certified LTE module and MDED doesn't. Please refer to DOS letter for more detail. The applicant provided model “MDED-L” for testing.
Voltage Range#	DC 14.4V from battery

Note 1#: The device can install difference Gimbal cameras: Gimbal camera 1 (Fusion 4T Pro), Gimbal camera 2(Fusion 4F Pro), Gimbal camera 3(Fusion 3M Pro), Gimbal camera 4(Fusion 4N Pro).

Product name	EVO III 4T Pro for Nest	EVO III 4F Pro for Nest	EVO III 3M Pro for Nest	EVO III 4N Pro for Nest
Gimbal camera name	Fusion 4T Pro	Fusion 4F Pro	Fusion 3M Pro	Fusion 4N Pro
Gimbal camera model	MDES1	MDES2	MDEP1	MDEN1

Note 2: Per 15B report, test with Gimbal camera 1#(Fusion 4T Pro) was the worst, so test was only performed with Gimbal camera 1#(Fusion 4T Pro) this report.

Frequency Range	5G Wi-Fi: 5150-5250MHz; 5725-5850MHz
Mode	802.11 a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80/be20/be40/be80
Maximum Conducted Output Average Power (actual test result)	5150-5250MHz: 16.26dBm
	5725-5850MHz: 21.13dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification#	Ceramic Antenna (The antenna gain is provided by the applicant.)
	5150-5250MHz: ANT0(Chain 0): 3.67dBi, ANT1(Chain 1): 3.67dBi
	5725-5850MHz: ANT0(Chain 0): 3.67dBi, ANT1(Chain 1): 3.67dBi
Sample Serial Number	3AYL-1 (For RF Conducted Test) 3AYL-2 (For Radiated Spurious Emissions Above 1G Test) 3BWJ-1 (For Radiated Spurious Emissions Below 1G Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This type approval report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033D02 General U-NII Test Procedures New Rules v02r01.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5 %
RF Frequency		$0.064*10^{-7}$
RF output power, conducted		0.3 dB
Unwanted Emission, conducted		1.2 dB
Emissions, Radiated	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3 dB
	1GHz - 18GHz	4.9 dB
	18GHz - 26.5GHz	5.2 dB
	26.5GHz - 40GHz	4.6 dB
Temperature		1 ℃
Humidity		7 %
Supply voltages		0.4 %

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

The device supports 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80/be20/be40/be80 mode, the n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.

For 5150-5250MHz, 7 channels are provided to testing:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	40	5200	44	5220	48	5240
38	5190	42	5210	46	5230	/	/

For 802.11a/ac20/ax20/be20, Channel 36, 40 and 48 were tested.
For 802.11ac40/ax40/be40, Channel 38, 46 were tested.
For 802.11ac80/ax80/be80, Channel 42 was tested.

For 5725-5850MHz, 8 channels are provided to testing:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
149	5745	153	5765	157	5785	161	5805
151	5755	155	5775	159	5795	165	5825

For 802.11a/ac20/ax20/be20, Channel 149, 157 and 165 were tested.
For 802.11ac40/ax40/be40, Channel 151 and 159 were tested.
For 802.11ac80/ax80/be80, Channel 155 was tested.

EUT Exercise Software and Power Level

Exercise Software:	QRCT4			
For 5150-5250MHz:				
Mode	Data Rate	Power Level		
		Lowest Channel	Middle Channel	Highest Channel
802.11 a(ANT0)	6Mbps	15	16	16
802.11 a(ANT1)	6Mbps	17	17	17
802.11 ac20	MCS0	12	13	13
802.11 ac40	MCS0	10	/	12
802.11 ac80	MCS0	/	11	/
802.11 ax20	MCS0	12	13	13
802.11 ax40	MCS0	11	/	12
802.11 ax80	MCS0	/	11	/
802.11 be20	MCS0	11	13	13
802.11 be40	MCS0	11	/	12
802.11 be80	MCS0	/	11	/

For 5725-5850MHz:				
Mode	Data Rate	Power Level		
		Lowest Channel	Middle Channel	Highest Channel
802.11 a(Ant0)	6Mbps	17	18	18
802.11 a(Ant1)	6Mbps	17	18	18
802.11 ac20	MCS0	17	17	17
802.11 ac40	MCS0	12	/	13
802.11 ac80	MCS0	/	11	/
802.11 ax20	MCS0	14	15	15
802.11 ax40	MCS0	11	/	13
802.11 ax80	MCS0	/	11	/
802.11 be20	MCS0	14	15	15
802.11 be40	MCS0	11	/	13
802.11 be80	MCS0	/	11	/

Note 1: The information in the above table is provided by the applicant.
Note 2: The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.
Note 3: The device supports SISO in all modes, and MIMO 2Tx in 802.11ac/ax/be modes, per pretest, 2Tx mode was the worst mode and reported for 802.11 ac/ax/be modes.
Note 4: For 802.11ax/be mode, the device not support partial RU mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

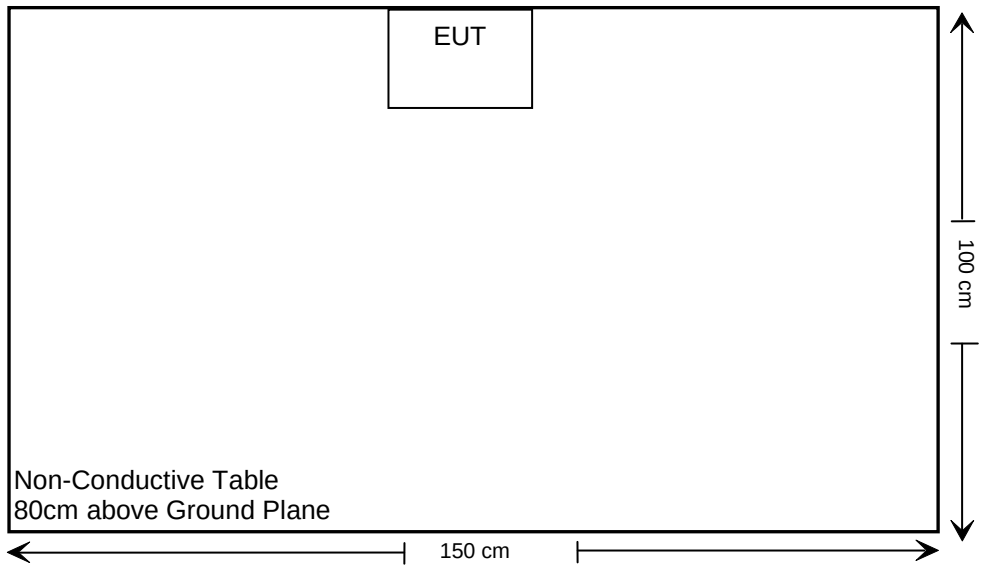
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

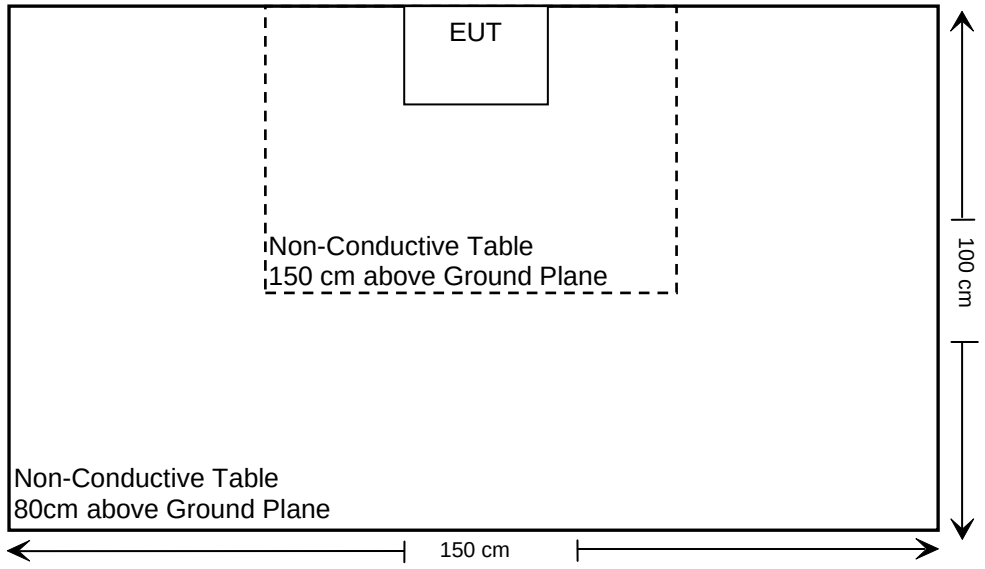
Cable Description	Shielding Type	Length (m)	From Port	To
/	/	/	/	/

Block Diagram of Test Setup

For Radiated Emission(Below 1GHz):



For Radiated Emission(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.407(b)(9) & §15.207(a)	Conducted Emissions	Not Applicable
§15.205 & §15.209 & §15.407(b)	Undesirable Emission & Restricted Bands	Compliance
§15.407(a), (e)	Bandwidth	Compliance
§15.407(a)	Conducted Transmitter Output Power	Compliance
§15.407(a)	Power Spectral Density	Compliance
§15.407(h)(1)	Transmit Power Control (TPC)	Not Applicable*
§15.407(h)(2)	Dynamic Frequency Selection (DFS)	Not Applicable**

Not Applicable: The device was powered by battery when operating.

Not Applicable*: The device does not support this function.

Not Applicable**: The EUT not operating within frequency range of 5250-5350MHz&5470-5725MHz.

Note: The cable loss is 1.0dB, which was added into the all RF test results.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Spurious Emission Test(Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2025/09/18	2026/09/17
SONOMA INSTRUMENT	Amplifier	310N	186131	2025/03/26	2026/03/25
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.13	N300	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.14	N800	2025/05/30	2026/05/29
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Above 1GHz)					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2025/09/17	2026/09/16
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2025/09/18	2026/09/17
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2025/09/18	2026/09/17
COM-MW	Band Reject Filter	K6	01252003	2025/10/13	2026/10/12
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2025/03/20	2026/03/19
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.11	N1000	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.19	N500	2025/05/30	2026/05/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.15	N600	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.16	N650	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
RF Conducted test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2025/09/17	2026/09/16
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101590	2025/09/17	2026/09/16
Anritsu	Microwave Peak Power Sensor	MA24418A	12619	2025/03/26	2026/03/25
Agilent	10dB Attenuator	8491B	A5825	2025/09/18	2026/09/17
Test Software: JDAutoTestSystem V1.0.0					

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

ANTENNA REQUIREMENT

Applicable Standard

According to 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.
c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction#

The EUT has two antenna arrangements for 5G Wi-Fi, which were permanently attached to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

Frequency Range	Antenna	Gain
5150-5250MHz	ANT0	3.67dBi
	ANT1	3.67dBi
5725-5850MHz	ANT0	3.67dBi
	ANT1	3.67dBi

Result: Compliance.

UNDESIRABLE EMISSION & RESTRICTED BANDS

Applicable Standard

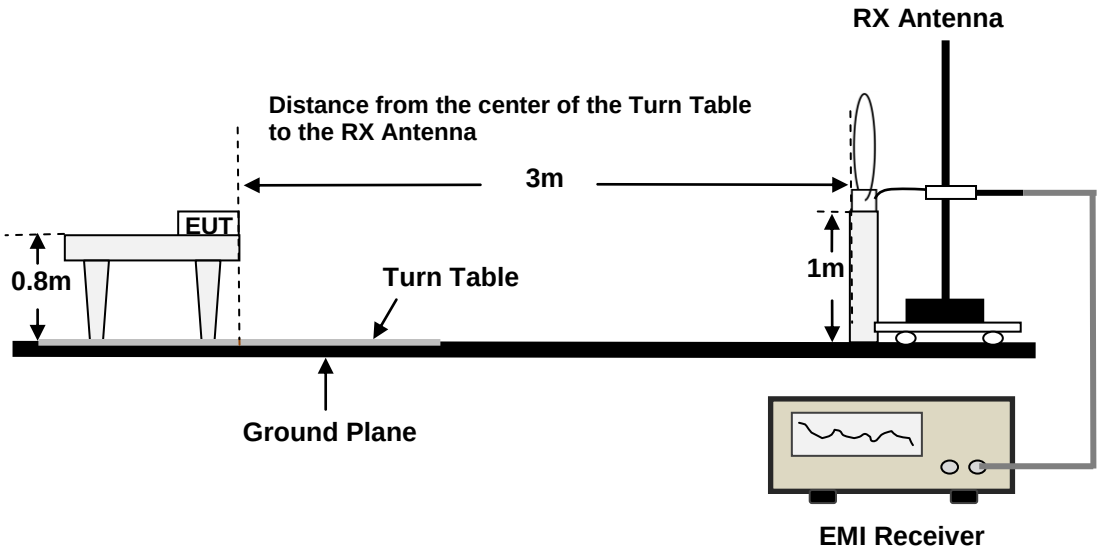
FCC §15.407 (b); §15.209; §15.205;

(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 in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

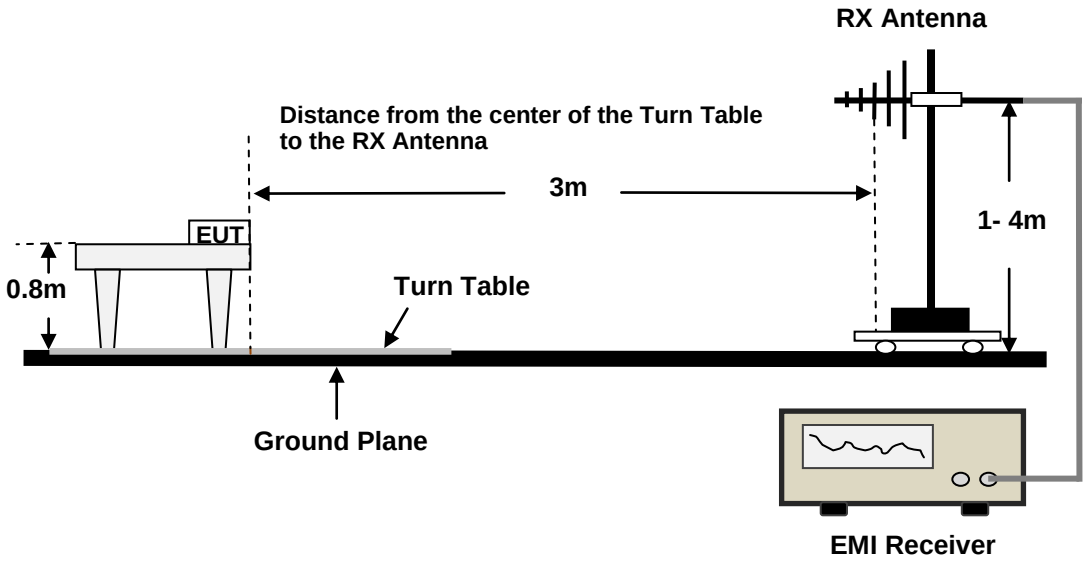
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

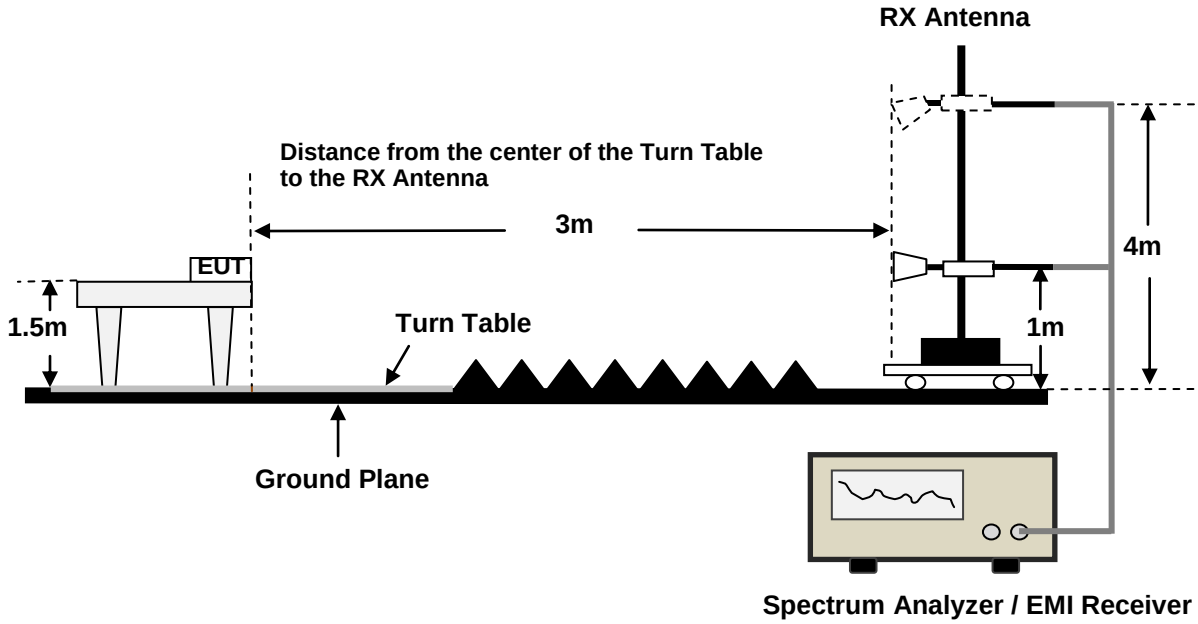
9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:



The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.407 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 40GHz.

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	Detector
9kHz - 150kHz	PK	0.3kHz	1kHz	/	PK
	QP/AV	/	/	200Hz	QP/AV
150kHz - 30MHz	PK	10kHz	30kHz	/	PK
	QP/AV	/	/	9kHz	QP/AV
30MHz - 1000MHz	PK	100kHz	300kHz	/	PK
	QP	/	/	120kHz	QP

1GHz -40GHz:
Pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	5kHz
		<98%	1MHz	≥1/T, no less than 5 kHz

Final measurement for emission identified during the pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	10Hz
		<98%	1MHz	≥1/T

Note 1: T is minimum transmission duration
Note 2: The 1GHz-6.6GHz testing use the notch filter and the 6.6GHz-18GHz testing use high-pass filter.
Note 3: The band edge testing use 10dB attenuator.
Note 4: The filters and attenuators are all integrated within the filter switch unit.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to ANSI C63.10-2020, 9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

$$E_{SpecLimit} = E_{Meas} + 20\log\left(\frac{D_{Meas}}{D_{SpecLimit}}\right)$$

where

$E_{\mathrm{SpecLimit}}$ is the field strength of the emission at the distance specified by the limit, in dBuV/m
E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m
D_{Meas} is the measurement distance, in m
$D_{\mathrm{SpecLimit}}$ is the distance specified by the limit, in m

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.
Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

For Radiated Spurious Emissions, after pre-scan testing in the X, Y and Z axes of orientation, the worst case as setup photos was recorded.

9kHz-1GHz

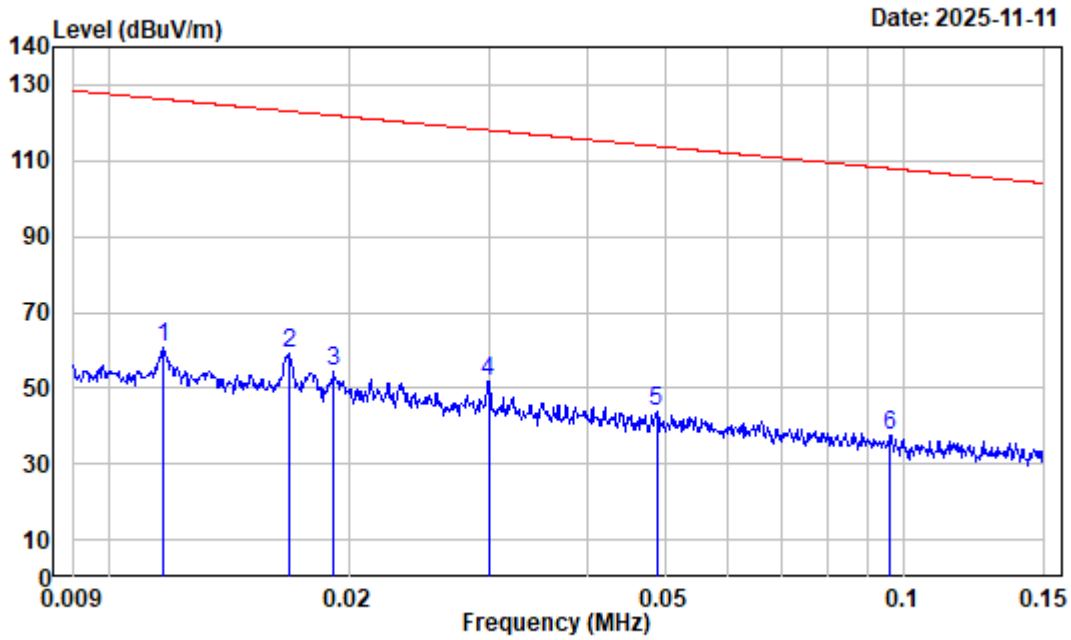
Environmental Conditions

Temperature:	25.2 ℃
Relative Humidity:	55 %
ATM Pressure:	101.1 kPa
Test Engineer:	Colin Lin
Test Date:	2025-11-11
EUT Operation Mode:	5.8G WIFI Transmitting

Test Result: Compliance, please refer to the below data.

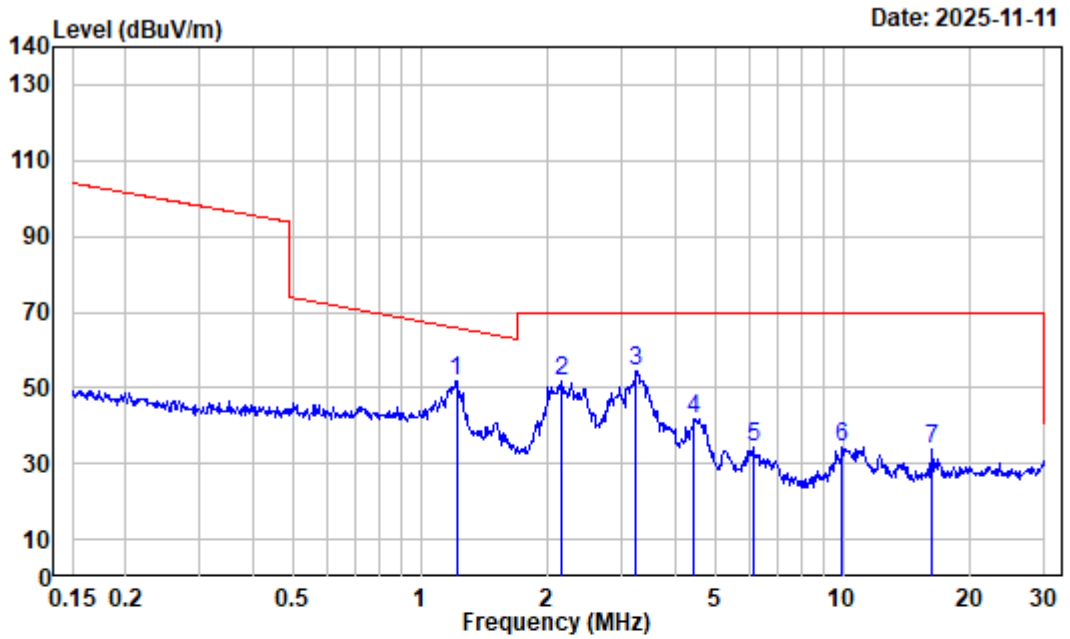
Note: The maximum output power mode and channel: 802.11ac20 MIMO High channel 5825MHz was tested.

9kHz~30MHz:



Site : Chamber
Condition : 3m
Job No. : 2504X04187E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 5.8G WIFI Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

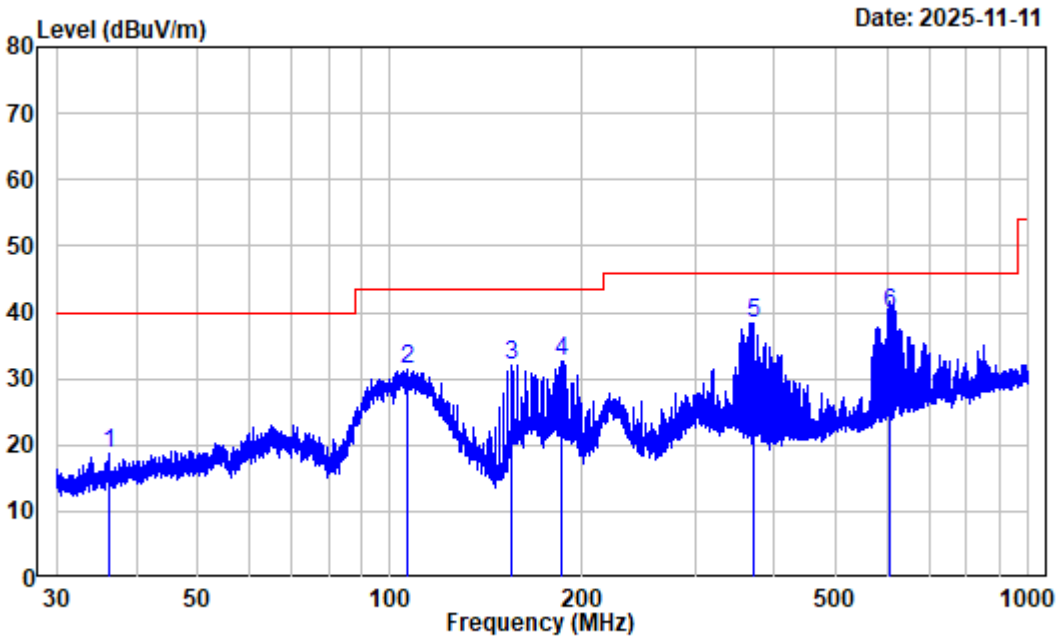
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.012	35.06	25.56	60.62	126.22	-65.60	Peak
2	0.017	32.79	26.26	59.05	123.07	-64.02	Peak
3	0.019	31.75	22.52	54.27	121.95	-67.68	Peak
4	0.030	26.95	24.77	51.72	118.06	-66.34	Peak
5	0.049	23.05	20.72	43.77	113.83	-70.06	Peak
6	0.096	16.90	20.81	37.71	107.99	-70.28	Peak



Site : Chamber
Condition : 3m
Job No. : 2504X04187E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 5.8G WIFI Transmitting
Receiver Setting: RBW:10kHz VBW:30kHz

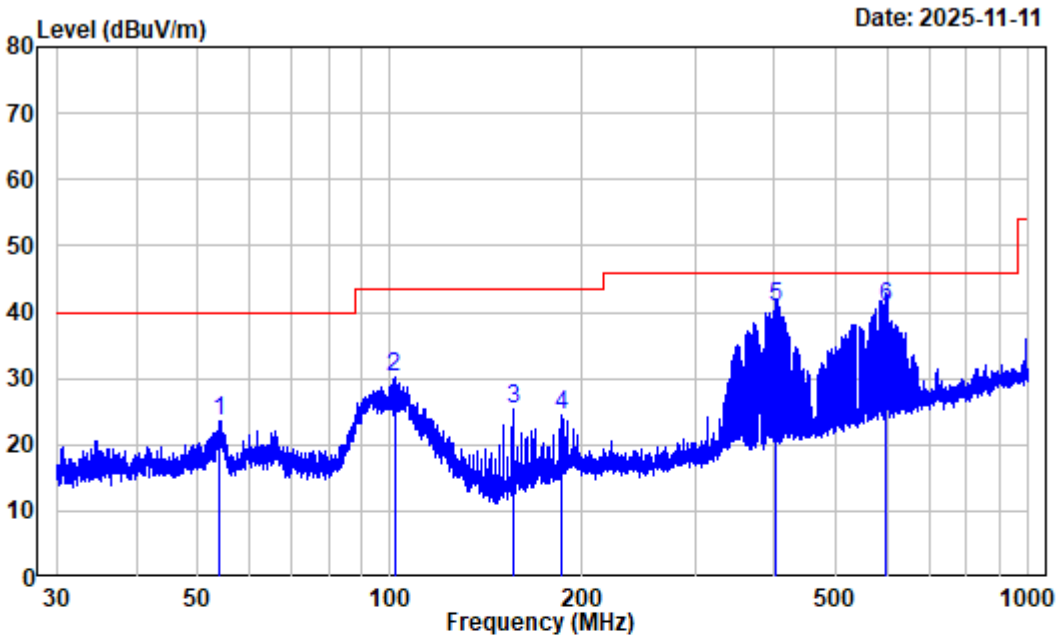
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.216	-2.60	54.63	52.03	65.74	-13.71	Peak
2	2.155	-5.45	57.11	51.66	69.54	-17.88	Peak
3	3.241	-5.95	60.53	54.58	69.54	-14.96	Peak
4	4.454	-6.30	48.01	41.71	69.54	-27.83	Peak
5	6.121	-6.20	40.63	34.43	69.54	-35.11	Peak
6	9.966	-5.35	39.72	34.37	69.54	-35.17	Peak
7	16.226	-3.86	37.47	33.61	69.54	-35.93	Peak

30MHz~1GHz:



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504X04187E-RF Tester: Colin Lin
Test Mode : 5.8G WIFI Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.254	-11.41	30.08	18.67	40.00	-21.33	Peak
2	106.152	-11.13	42.67	31.54	43.50	-11.96	Peak
3	154.482	-14.51	46.62	32.11	43.50	-11.39	Peak
4	186.114	-11.38	44.02	32.64	43.50	-10.86	Peak
5	370.378	-6.91	45.26	38.35	46.00	-7.65	Peak
6	608.053	-1.85	41.60	39.75	46.00	-6.25	QP



Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504X04187E-RF Tester: Colin Lin
Test Mode : 5.8G WIFI Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	54.095	-10.46	34.12	23.66	40.00	-16.34	Peak
2	101.511	-11.30	41.55	30.25	43.50	-13.25	Peak
3	156.458	-14.39	39.78	25.39	43.50	-18.11	Peak
4	186.114	-11.38	35.88	24.50	43.50	-19.00	Peak
5	402.015	-5.96	46.64	40.68	46.00	-5.32	QP
6	598.009	-2.08	42.98	40.90	46.00	-5.10	QP

1GHz-40GHz

Environmental Conditions

Temperature:	25.4 to 26.1 ℃	25.8 to 26.1 ℃
Relative Humidity:	52 to 55 %	54 to 55 %
ATM Pressure:	100.7 to 101.1 kPa	101.1 kPa
Test Engineer:	Kevin Lv	Kevin Lv
Test Date:	2025-10-29 to 2025-11-11	2025-11-07 to 2025-11-11
EUT Operation Mode:	Transmitting	Transmitting
Radio:	5.2G WIFI	5.8G WIFI

Test Result: Compliance, please refer to the below data.

For 5.2G WIFI:

Frequency (MHz)	Reading (dBµV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a Ant0							
Low Channel							
5150	60.71	PK	H	-6.04	54.67	74	-19.33
5150	50.51	AV	H	-6.04	44.47	54	-9.53
5150	63.84	PK	V	-6.04	57.80	74	-16.20
5150	50.46	AV	V	-6.04	44.42	54	-9.58
10360	49.35	PK	H	3.99	53.34	68.2	-14.86
10360	48.76	PK	V	3.99	52.75	68.2	-15.45
Middle Channel							
10400	50.17	PK	H	4.18	54.35	68.2	-13.85
10400	49.96	AV	H	4.18	54.14	68.2	-14.06
High Channel							
5350	61.14	PK	H	-5.69	55.45	74	-18.55
5350	50.39	AV	H	-5.69	44.70	54	-9.30
5350	61.37	PK	V	-5.69	55.68	74	-18.32
5350	50.48	AV	V	-5.69	44.79	54	-9.21
10480	49.53	PK	H	4.01	53.54	68.2	-14.66
10480	47.92	AV	V	4.01	51.93	68.2	-16.27

Frequency (MHz)	Reading (dBµV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a Ant1							
Low Channel							
5150	61.15	PK	H	-6.04	55.11	74	-18.89
5150	50.47	AV	H	-6.04	44.43	54	-9.57
5150	64.45	PK	V	-6.04	58.41	74	-15.59
5150	52.91	AV	V	-6.04	46.87	54	-7.13
10360	50.60	PK	H	3.99	54.59	68.2	**-13.61**
10360	49.66	PK	V	3.99	53.65	68.2	-14.55
Middle Channel							
10400	49.67	PK	H	4.18	53.85	68.2	-14.35
10400	50.03	AV	H	4.18	54.21	68.2	-13.99
High Channel							
5350	60.50	PK	H	-5.69	54.81	74	-19.19
5350	50.44	AV	H	-5.69	44.75	54	-9.25
5350	60.81	PK	V	-5.69	55.12	74	-18.88
5350	50.36	AV	V	-5.69	44.67	54	-9.33
10480	48.78	PK	H	4.01	52.79	68.2	-15.41
10480	48.41	AV	V	4.01	52.42	68.2	-15.78

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5150	60.98	PK	H	-6.04	54.94	74	-19.06
5150	50.61	AV	H	-6.04	44.57	54	-9.43
5150	61.47	PK	V	-6.04	55.43	74	-18.57
5150	50.58	AV	V	-6.04	44.54	54	-9.46
10360	50.30	PK	H	3.99	54.29	68.2	-13.91
10360	49.27	PK	V	3.99	53.26	68.2	-14.94
Middle Channel							
10400	48.93	PK	H	4.18	53.11	68.2	-15.09
10400	48.55	AV	H	4.18	52.73	68.2	-15.47
High Channel							
5350	60.23	PK	H	-5.69	54.54	74	-19.46
5350	50.34	AV	H	-5.69	44.65	54	-9.35
5350	61.35	PK	V	-5.69	55.66	74	-18.34
5350	50.71	AV	V	-5.69	45.02	54	-8.98
10480	48.91	PK	H	4.01	52.92	68.2	-15.28
10480	48.53	AV	V	4.01	52.54	68.2	-15.66

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5150	61.70	PK	H	-6.04	55.66	74	-18.34
5150	50.04	AV	H	-6.04	44.00	54	-10.00
5150	73.78	PK	V	-6.04	67.74	74	-6.26
5150	56.81	AV	V	-6.04	50.77	54	**-3.23**
10380	49.35	PK	H	4.09	53.44	68.2	-14.76
10380	48.89	AV	V	4.09	52.98	68.2	-15.22
High Channel							
5350	61.55	PK	H	-5.69	55.86	74	-18.14
5350	50.45	AV	H	-5.69	44.76	54	-9.24
5350	60.72	PK	V	-5.69	55.03	74	-18.97
5350	50.19	AV	V	-5.69	44.50	54	-9.50
10460	48.56	PK	H	4.20	52.76	68.2	-15.44
10460	48.21	AV	V	4.20	52.41	68.2	-15.79

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac80							
Middle Channel							
5150	61.82	PK	H	-6.04	55.78	74	-18.22
5150	51.18	AV	H	-6.04	45.14	54	-8.86
5150	66.49	PK	V	-6.04	60.45	74	-13.55
5150	54.55	AV	V	-6.04	48.51	54	-5.49
5350	61.28	PK	H	-5.69	55.59	74	-18.41
5350	51.00	AV	H	-5.69	45.31	54	-8.69
5350	62.84	PK	V	-5.69	57.15	74	-16.85
5350	51.51	AV	V	-5.69	45.82	54	-8.18
10420	49.86	PK	H	4.22	54.08	68.2	-14.12
10420	49.09	AV	V	4.22	53.31	68.2	-14.89

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax20							
Low Channel							
5150	61.02	PK	H	-6.04	54.98	74	-19.02
5150	50.98	AV	H	-6.04	44.94	54	-9.06
5150	60.96	PK	V	-6.04	54.92	74	-19.08
5150	51.00	AV	V	-6.04	44.96	54	-9.04
10360	49.02	PK	H	3.99	53.01	68.2	-15.19
10360	48.73	PK	V	3.99	52.72	68.2	-15.48
Middle Channel							
10400	49.47	PK	H	4.18	53.65	68.2	-14.55
10400	48.71	AV	H	4.18	52.89	68.2	-15.31
High Channel							
5350	60.38	PK	H	-5.69	54.69	74	-19.31
5350	51.33	AV	H	-5.69	45.64	54	-8.36
5350	60.35	PK	V	-5.69	54.66	74	-19.34
5350	51.37	AV	V	-5.69	45.68	54	-8.32
10480	49.80	PK	H	4.01	53.81	68.2	-14.39
10480	48.92	AV	V	4.01	52.93	68.2	-15.27

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax40							
Low Channel							
5150	61.05	PK	H	-6.04	55.01	74	-18.99
5150	51.08	AV	H	-6.04	45.04	54	-8.96
5150	68.11	PK	V	-6.04	62.07	74	-11.93
5150	55.12	AV	V	-6.04	49.08	54	-4.92
10380	49.08	PK	H	4.09	53.17	68.2	-15.03
10380	48.96	AV	V	4.09	53.05	68.2	-15.15
High Channel							
5350	61.14	PK	H	-5.69	55.45	74	-18.55
5350	51.12	AV	H	-5.69	45.43	54	-8.57
5350	60.34	PK	V	-5.69	54.65	74	-19.35
5350	51.32	AV	V	-5.69	45.63	54	-8.37
10460	48.80	PK	H	4.20	53.00	68.2	-15.20
10460	49.01	AV	V	4.20	53.21	68.2	-14.99

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax80							
Middle Channel							
5150	61.98	PK	H	-6.04	55.94	74	-18.06
5150	51.02	AV	H	-6.04	44.98	54	-9.02
5150	66.68	PK	V	-6.04	60.64	74	-13.36
5150	54.70	AV	V	-6.04	48.66	54	-5.34
5350	61.15	PK	H	-5.69	55.46	74	-18.54
5350	51.13	AV	H	-5.69	45.44	54	-8.56
5350	62.73	PK	V	-5.69	57.04	74	-16.96
5350	51.29	AV	V	-5.69	45.60	54	-8.40
10420	49.72	PK	H	4.22	53.94	68.2	-14.26
10420	49.10	AV	V	4.22	53.32	68.2	-14.88

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11be20							
Low Channel							
5150	60.82	PK	H	-6.04	54.78	74	-19.22
5150	50.86	AV	H	-6.04	44.82	54	-9.18
5150	61.85	PK	V	-6.04	55.81	74	-18.19
5150	51.77	AV	V	-6.04	45.73	54	-8.27
10360	49.72	PK	H	3.99	53.71	68.2	-14.49
10360	50.49	PK	V	3.99	54.48	68.2	-13.72
Middle Channel							
10400	49.52	PK	H	4.18	53.70	68.2	-14.50
10400	50.21	AV	H	4.18	54.39	68.2	-13.81
High Channel							
5350	61.30	PK	H	-5.69	55.61	74	-18.39
5350	51.12	AV	H	-5.69	45.43	54	-8.57
5350	61.92	PK	V	-5.69	56.23	74	-17.77
5350	50.91	AV	V	-5.69	45.22	54	-8.78
10480	49.64	PK	H	4.01	53.65	68.2	-14.55
10480	49.39	AV	V	4.01	53.40	68.2	-14.80

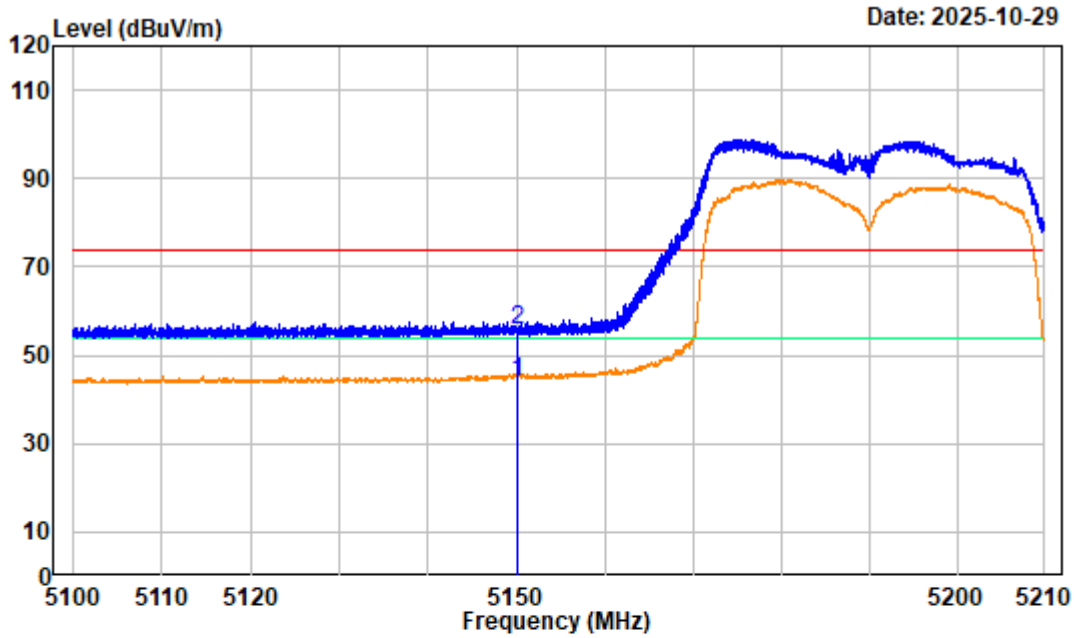
Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11be40							
Low Channel							
5150	61.06	PK	H	-6.04	55.02	74	-18.98
5150	51.09	AV	H	-6.04	45.05	54	-8.95
5150	71.18	PK	V	-6.04	65.14	74	-8.86
5150	56.40	AV	V	-6.04	50.36	54	-3.64
10380	50.03	PK	H	4.09	54.12	68.2	-14.08
10380	50.35	AV	V	4.09	54.44	68.2	-13.76
High Channel							
5350	60.35	PK	H	-5.69	54.66	74	-19.34
5350	50.37	AV	H	-5.69	44.68	54	-9.32
5350	63.03	PK	V	-5.69	57.34	74	-16.66
5350	51.12	AV	V	-5.69	45.43	54	-8.57
10460	49.61	PK	H	4.20	53.81	68.2	-14.39
10460	49.95	AV	V	4.20	54.15	68.2	-14.05

Frequency (MHz)	Reading (dBµV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11be80							
Middle Channel							
5150	61.77	PK	H	-6.04	55.73	74	-18.27
5150	50.80	AV	H	-6.04	44.76	54	-9.24
5150	65.38	PK	V	-6.04	59.34	74	-14.66
5150	54.36	AV	V	-6.04	48.32	54	-5.68
5350	60.52	PK	H	-5.69	54.83	74	-19.17
5350	50.58	AV	H	-5.69	44.89	54	-9.11
5350	62.30	PK	V	-5.69	56.61	74	-17.39
5350	51.30	AV	V	-5.69	45.61	54	-8.39
10420	50.24	PK	H	4.22	54.46	68.2	-13.74
10420	49.93	AV	V	4.22	54.15	68.2	-14.05

Note 1: Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Note 2: Absolute Level = Factor + Reading
Note 3: Margin = Absolute Level - Limit
Note 4: The other spurious emission which is in the noise floor level was not recorded.
Note 5: The test result of peak was less than the limit of average, so just peak values were recorded.

Band Edge(Listed with the worst mode margin test plot)

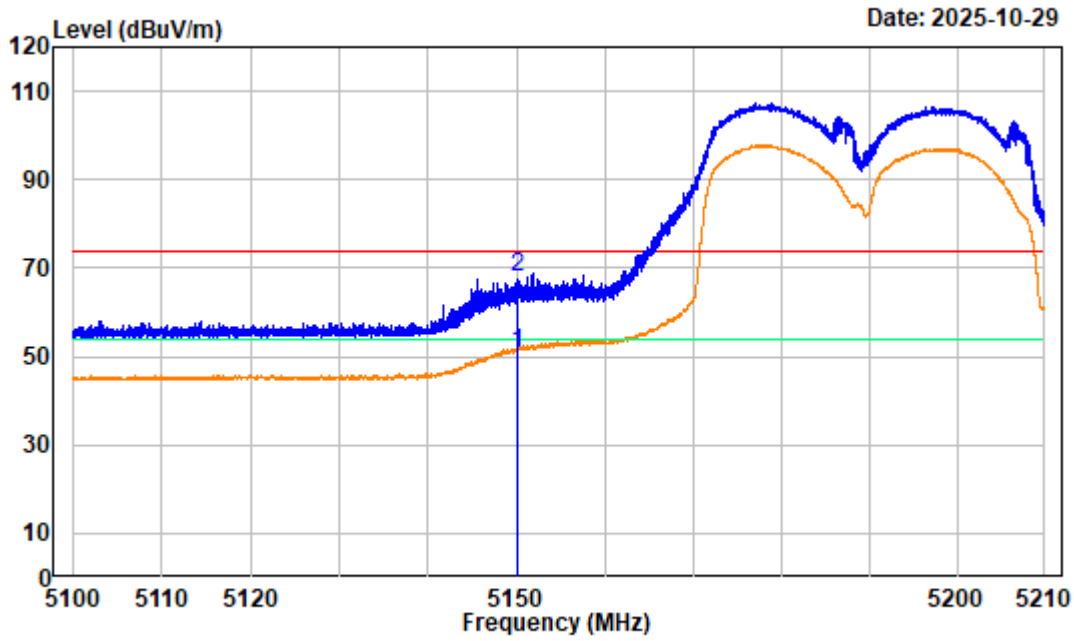
5.2G WIFI 802.11ac40 Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11ac40 Low Channel 5190MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-6.04	50.04	44.00	54.00	-10.00	average
2	5150.000	-6.04	61.70	55.66	74.00	-18.34	peak

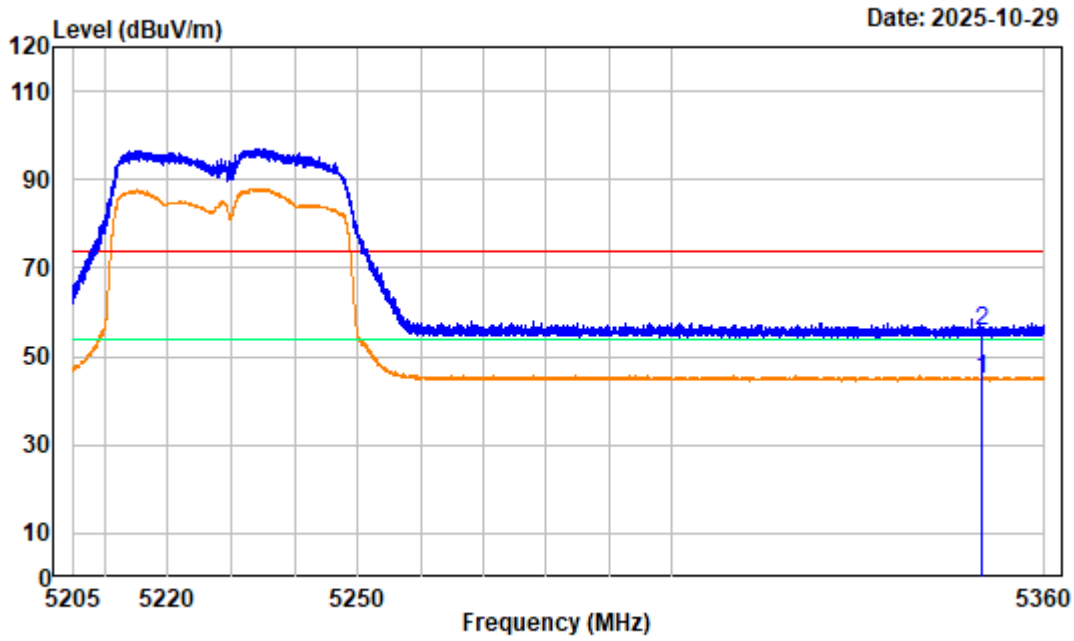
5.2G WIFI 802.11ac40 Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11ac40 Low Channel 5190MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	-6.04	56.81	50.77	54.00	-3.23	average
2	5150.000	-6.04	73.78	67.74	74.00	-6.26	peak

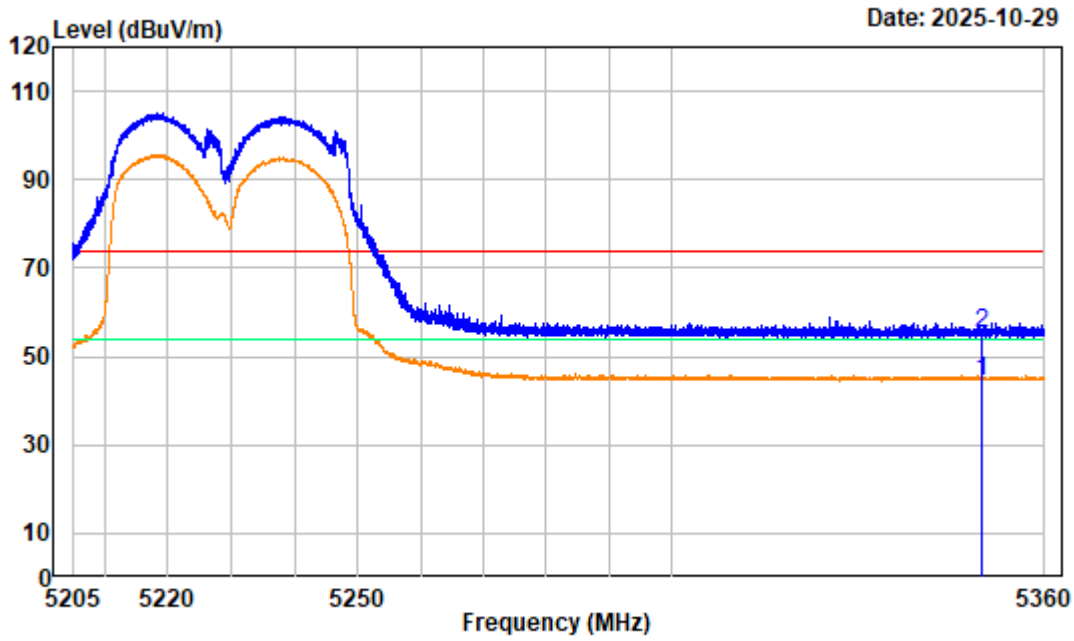
5.2G WIFI 802.11ac40 High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11ac40 High Channel 5230MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.000	-5.69	50.45	44.76	54.00	-9.24	average
2	5350.000	-5.69	61.55	55.86	74.00	-18.14	peak

5.2G WIFI 802.11ac40 High Channel Bandedge_VERTICAL

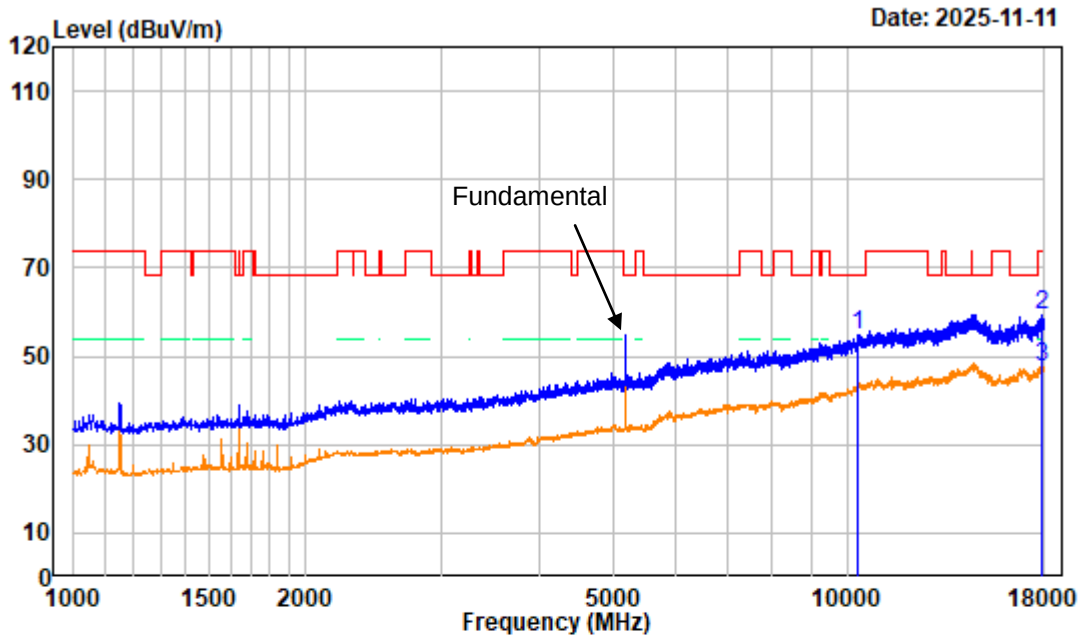


Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11ac40 High Channel 5230MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5350.000	-5.69	50.19	44.50	54.00	-9.50	average
2	5350.000	-5.69	60.72	55.03	74.00	-18.97	peak

1-18GHz (Listed with the worst harmonic margin test plot)

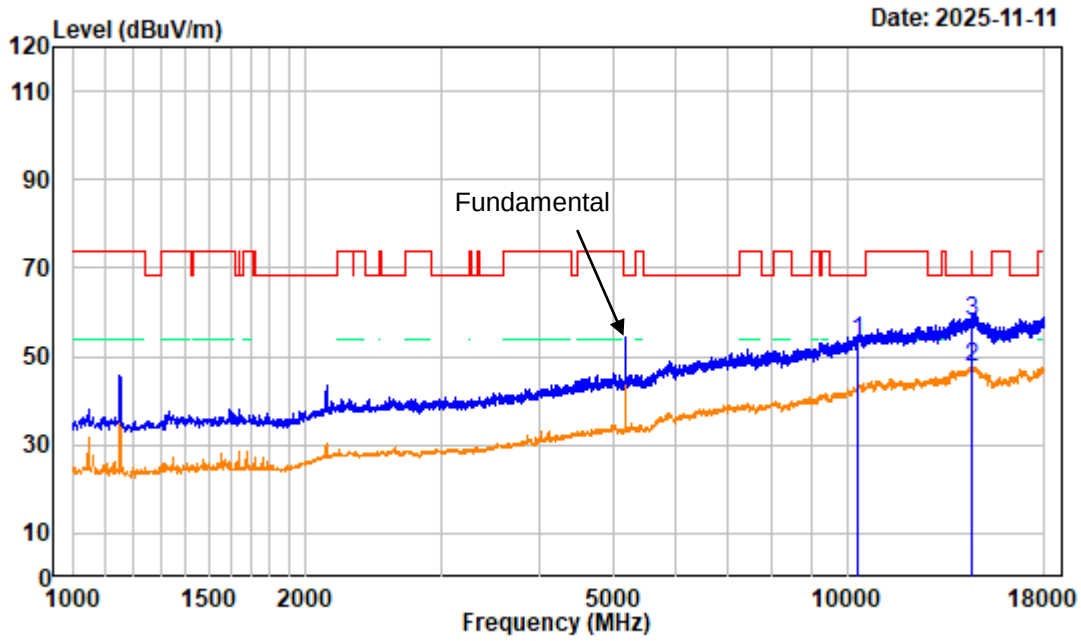
5.2G WIFI 802.11a Low Channel 1-18G Ant1_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11a Low Channel 5180MHz 1GHz-18GHz ANT1
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	3.99	50.60	54.59	68.20	-13.61	peak
2	17908.630	8.24	50.93	59.17	74.00	-14.83	Peak
3	17908.630	8.24	39.50	47.74	54.00	-6.26	average

5.2G WIFI 802.11a Low Channel 1-18G Ant1_VERTICAL

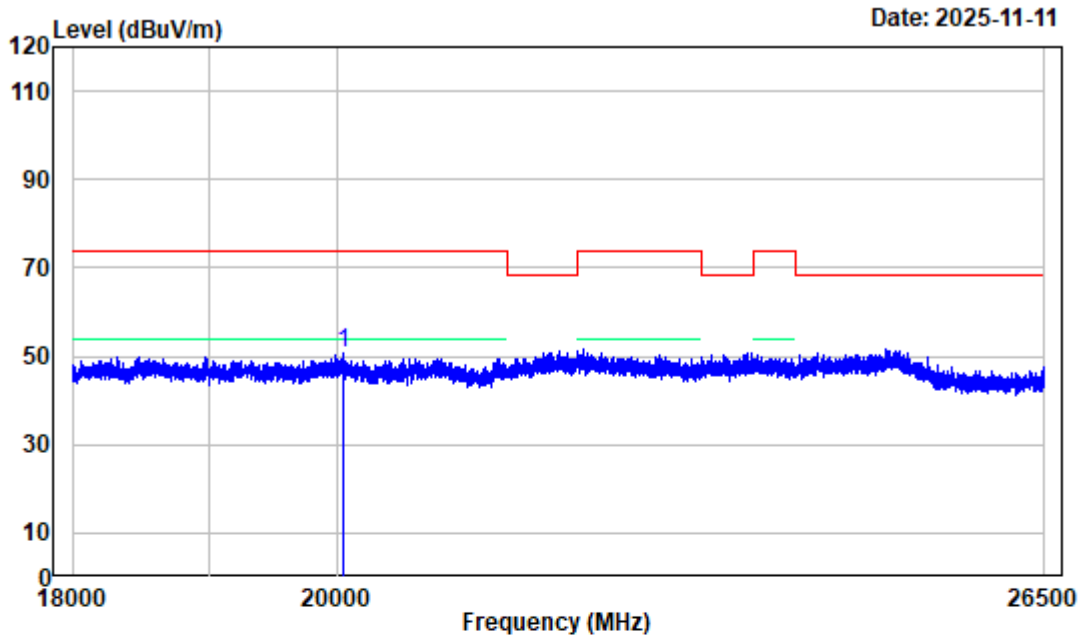


Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11a Low Channel 5180MHz 1GHz-18GHz ANT1
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10360.000	3.99	49.66	53.65	68.20	-14.55	peak
2	14493.750	8.31	39.42	47.73	54.00	-6.27	Average
3	14493.750	8.31	49.69	58.00	74.00	-16.00	Peak

18-40GHz (Only Listed with the worst harmonic margin test plot)

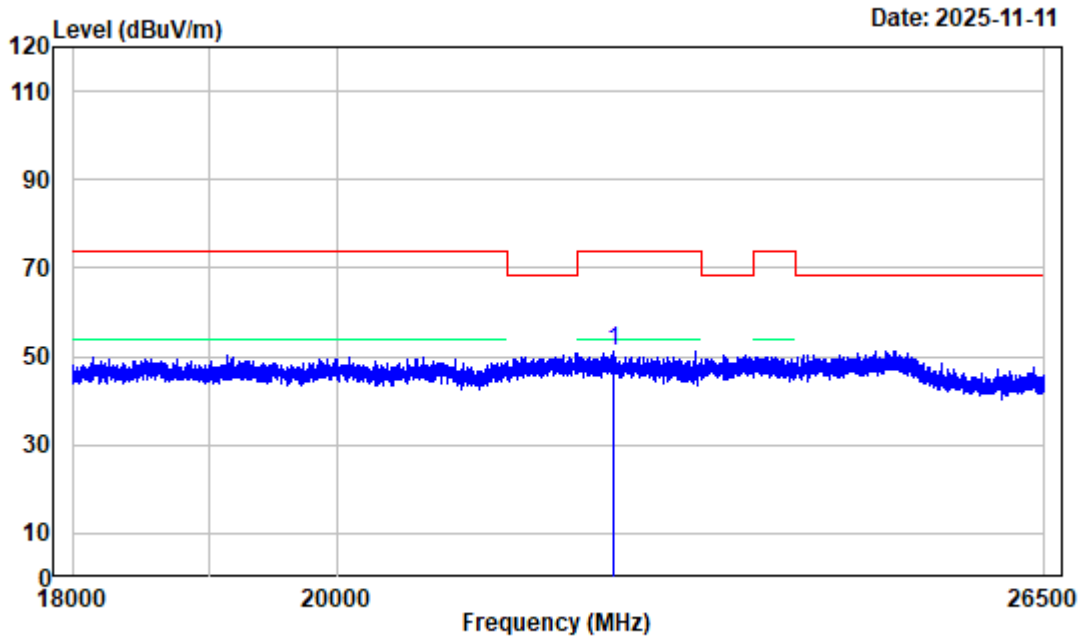
5.2G WIFI 802.11a Low Channel 18-26.5G Ant1_HORIZONTAL



Site : chamber
Condition : 3m Horizontal
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.2G WIFI 802.11a Low Channel 18-26.5G Ant1
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	20049.560	-2.89	53.39	50.50	74.00	-23.50	Peak

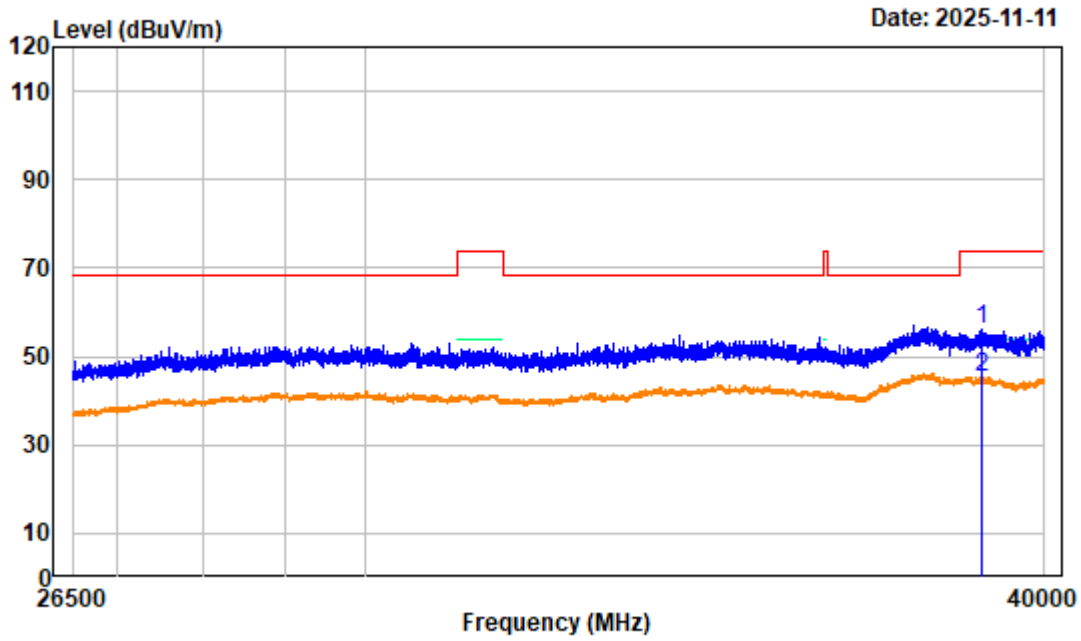
5.2G WIFI 802.11a Low Channel 18-26.5G Ant1_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.2G WIFI 802.11a Low Channel 18-26.5G Ant1
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	22321.190	0.85	50.19	51.04	74.00	-22.96	Peak

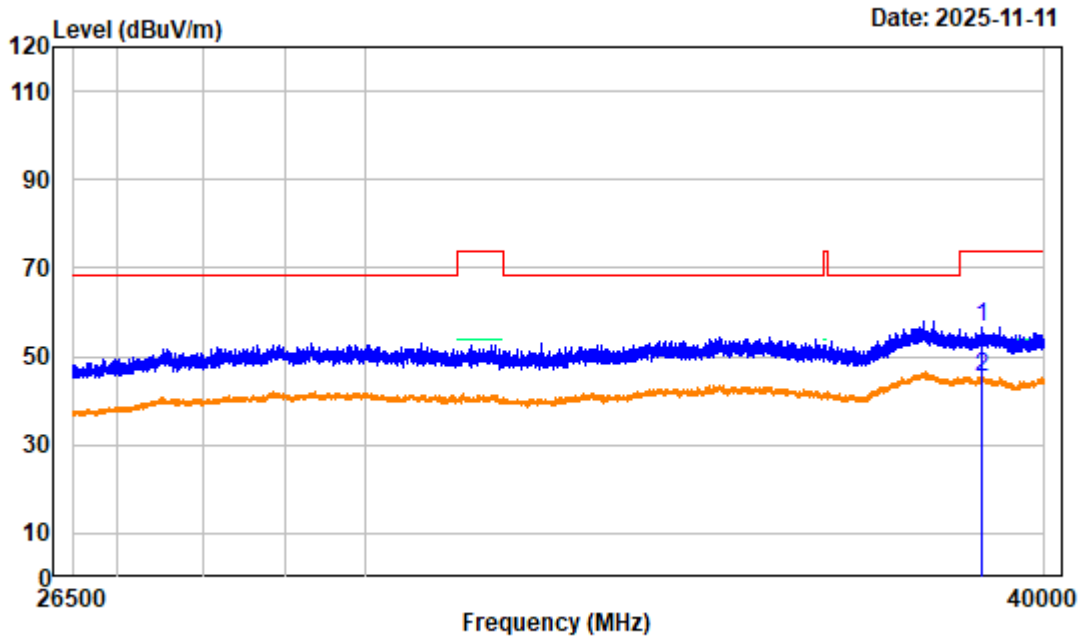
5.2G WIFI 802.11a Low Channel 26.5-40G Ant1_HORIZONTAL



Site : chamber
Condition : 3m Horizontal
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.2G WIFI 802.11a Low Channel 26.5-40G Ant1
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38955.440	6.28	49.78	56.06	74.00	-17.94	Peak
2	38955.440	6.28	39.05	45.33	54.00	-8.67	Average

5.2G WIFI 802.11a Low Channel 26.5-40G Ant1_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.2G WIFI 802.11a Low Channel 26.5-40G Ant1
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38962.190	6.29	50.15	56.44	74.00	-17.56	Peak
2	38962.190	6.29	39.00	45.29	54.00	-8.71	Average

For 5.8G WIFI:

Frequency (MHz)	Reading (dBµV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11a Ant0							
Low Channel							
5725	71.05	PK	H	-4.45	66.60	122.2	-55.60
5725	76.96	PK	V	-4.45	72.51	122.2	-49.69
5720	66.44	PK	H	-4.43	62.01	110.8	-48.79
5720	66.85	PK	V	-4.43	62.42	110.8	-48.38
5700	64.55	PK	H	-4.35	60.20	105.2	-45.00
5700	64.40	PK	V	-4.35	60.05	105.2	-45.15
5650	64.68	PK	H	-4.72	59.96	68.2	-8.24
5650	63.77	PK	V	-4.72	59.05	68.2	-9.15
11490	49.10	PK	H	6.24	55.34	74	-18.66
11490	37.08	AV	H	6.24	43.32	54	-10.68
11490	47.92	PK	V	6.24	54.16	74	-19.84
11490	36.21	AV	V	6.24	42.45	54	-11.55
Middle Channel							
11570	49.44	PK	H	6.02	55.46	74	-18.54
11570	37.49	AV	H	6.02	43.51	54	-10.49
11570	49.48	PK	V	6.02	55.50	74	-18.50
11570	37.00	AV	V	6.02	43.02	54	-10.98
High Channel							
5850	65.64	PK	H	-4.54	61.10	122.2	-61.10
5850	65.87	PK	V	-4.54	61.33	122.2	-60.87
5855	65.36	PK	H	-4.48	60.88	110.8	-49.92
5855	64.78	PK	V	-4.48	60.30	110.8	-50.50
5875	65.28	PK	H	-4.20	61.08	105.2	-44.12
5875	64.71	PK	V	-4.20	60.51	105.2	-44.69
5925	66.35	PK	H	-4.27	62.08	68.2	-6.12
5925	65.10	PK	V	-4.27	60.83	68.2	-7.37
11650	50.27	PK	H	5.36	55.63	74	**-18.37**
11650	38.53	AV	H	5.36	43.89	54	-10.11
11650	49.81	PK	V	5.36	55.17	74	-18.83
11650	37.85	AV	V	5.36	43.21	54	-10.79

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a Ant1							
Low Channel							
5725	76.78	PK	H	-4.45	72.33	122.2	-49.87
5725	82.80	PK	V	-4.45	78.35	122.2	-43.85
5720	69.73	PK	H	-4.43	65.30	110.8	-45.50
5720	74.22	PK	V	-4.43	69.79	110.8	-41.01
5700	65.62	PK	H	-4.35	61.27	105.2	-43.93
5700	65.85	PK	V	-4.35	61.50	105.2	-43.70
5650	64.64	PK	H	-4.72	59.92	68.2	-8.28
5650	64.33	PK	V	-4.72	59.61	68.2	-8.59
11490	48.26	PK	H	6.24	54.50	74	-19.50
11490	37.10	AV	H	6.24	43.34	54	-10.66
11490	47.54	PK	V	6.24	53.78	74	-20.22
11490	36.52	AV	V	6.24	42.76	54	-11.24
Middle Channel							
11570	47.90	PK	H	6.02	53.92	74	-20.08
11570	37.17	AV	H	6.02	43.19	54	-10.81
11570	48.32	PK	V	6.02	54.34	74	-19.66
11570	36.96	AV	V	6.02	42.98	54	-11.02
High Channel							
5850	65.79	PK	H	-4.54	61.25	122.2	-60.95
5850	67.68	PK	V	-4.54	63.14	122.2	-59.06
5855	64.72	PK	H	-4.48	60.24	110.8	-50.56
5855	66.55	PK	V	-4.48	62.07	110.8	-48.73
5875	64.59	PK	H	-4.20	60.39	105.2	-44.81
5875	64.46	PK	V	-4.20	60.26	105.2	-44.94
5925	65.43	PK	H	-4.27	61.16	68.2	-7.04
5925	65.29	PK	V	-4.27	61.02	68.2	-7.18
11650	48.66	PK	H	5.36	54.02	74	-19.98
11650	37.90	AV	H	5.36	43.26	54	-10.74
11650	48.50	PK	V	5.36	53.86	74	-20.14
11650	37.68	AV	V	5.36	43.04	54	-10.96

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac20							
Low Channel							
5725	83.00	PK	H	-4.45	78.55	122.2	-43.65
5725	83.98	PK	V	-4.45	79.53	122.2	-42.67
5720	74.36	PK	H	-4.43	69.93	110.8	-40.87
5720	78.58	PK	V	-4.43	74.15	110.8	-36.65
5700	64.44	PK	H	-4.35	60.09	105.2	-45.11
5700	64.42	PK	V	-4.35	60.07	105.2	-45.13
5650	64.32	PK	H	-4.72	59.60	68.2	-8.60
5650	64.74	PK	V	-4.72	60.02	68.2	-8.18
11490	47.54	PK	H	6.24	53.78	74	-20.22
11490	37.27	AV	H	6.24	43.51	54	-10.49
11490	48.26	PK	V	6.24	54.50	74	-19.50
11490	36.84	AV	V	6.24	43.08	54	-10.92
Middle Channel							
11570	48.36	PK	H	6.02	54.38	74	-19.62
11570	37.28	AV	H	6.02	43.30	54	-10.70
11570	48.19	PK	V	6.02	54.21	74	-19.79
11570	36.98	AV	V	6.02	43.00	54	-11.00
High Channel							
5850	77.18	PK	H	-4.54	72.64	122.2	-49.56
5850	75.21	PK	V	-4.54	70.67	122.2	-51.53
5855	68.55	PK	H	-4.48	64.07	110.8	-46.73
5855	69.57	PK	V	-4.48	65.09	110.8	-45.71
5875	64.94	PK	H	-4.20	60.74	105.2	-44.46
5875	65.79	PK	V	-4.20	61.59	105.2	-43.61
5925	65.61	PK	H	-4.27	61.34	68.2	-6.86
5925	64.86	PK	V	-4.27	60.59	68.2	-7.61
11650	49.24	PK	H	5.36	54.60	74	-19.40
11650	37.98	AV	H	5.36	43.34	54	-10.66
11650	48.53	PK	V	5.36	53.89	74	-20.11
11650	37.51	AV	V	5.36	42.87	54	-11.13

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac40							
Low Channel							
5725	65.54	PK	H	-4.45	61.09	122.2	-61.11
5725	68.07	PK	V	-4.45	63.62	122.2	-58.58
5720	65.58	PK	H	-4.43	61.15	110.8	-49.65
5720	68.02	PK	V	-4.43	63.59	110.8	-47.21
5700	65.33	PK	H	-4.35	60.98	105.2	-44.22
5700	65.47	PK	V	-4.35	61.12	105.2	-44.08
5650	65.36	PK	H	-4.72	60.64	68.2	-7.56
5650	64.18	PK	V	-4.72	59.46	68.2	-8.74
11510	47.78	PK	H	6.44	54.22	74	-19.78
11510	36.89	AV	H	6.44	43.33	54	-10.67
11510	47.87	PK	V	6.44	54.31	74	-19.69
11510	36.66	AV	V	6.44	43.10	54	-10.90
High Channel							
5850	64.56	PK	H	-4.54	60.02	122.2	-62.18
5850	64.44	PK	V	-4.54	59.90	122.2	-62.30
5855	65.67	PK	H	-4.48	61.19	110.8	-49.61
5855	64.33	PK	V	-4.48	59.85	110.8	-50.95
5875	65.50	PK	H	-4.20	61.30	105.2	-43.90
5875	65.72	PK	V	-4.20	61.52	105.2	-43.68
5925	66.32	PK	H	-4.27	62.05	68.2	-6.15
5925	66.10	PK	V	-4.27	61.83	68.2	-6.37
11590	47.85	PK	H	5.82	53.67	74	-20.33
11590	37.43	AV	H	5.82	43.25	54	-10.75
11590	48.27	PK	V	5.82	54.09	74	-19.91
11590	37.40	AV	V	5.82	43.22	54	-10.78

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac80							
Low Channel							
5725	69.29	PK	H	-4.45	64.84	122.2	-57.36
5725	70.78	PK	V	-4.45	66.33	122.2	-55.87
5720	65.29	PK	H	-4.43	60.86	110.8	-49.94
5720	66.98	PK	V	-4.43	62.55	110.8	-48.25
5700	64.81	PK	H	-4.35	60.46	105.2	-44.74
5700	65.20	PK	V	-4.35	60.85	105.2	-44.35
5650	64.19	PK	H	-4.72	59.47	68.2	-8.73
5650	64.11	PK	V	-4.72	59.39	68.2	-8.81
5850	64.95	PK	H	-4.54	60.41	122.2	-61.79
5850	65.74	PK	V	-4.54	61.20	122.2	-61.00
5855	65.26	PK	H	-4.48	60.78	110.8	-50.02
5855	65.43	PK	V	-4.48	60.95	110.8	-49.85
5875	64.73	PK	H	-4.20	60.53	105.2	-44.67
5875	65.05	PK	V	-4.20	60.85	105.2	-44.35
5925	66.26	PK	H	-4.27	61.99	68.2	-6.21
5925	66.23	PK	V	-4.27	61.96	68.2	-6.24
11550	48.32	PK	H	6.21	54.53	74	-19.47
11550	37.42	AV	H	6.21	43.63	54	-10.37
11550	47.77	PK	V	6.21	53.98	74	-20.02
11550	36.96	AV	V	6.21	43.17	54	-10.83

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax20							
Low Channel							
5725	67.33	PK	H	-4.45	62.88	122.2	-59.32
5725	71.06	PK	V	-4.45	66.61	122.2	-55.59
5720	66.16	PK	H	-4.43	61.73	110.8	-49.07
5720	67.96	PK	V	-4.43	63.53	110.8	-47.27
5700	65.58	PK	H	-4.35	61.23	105.2	-43.97
5700	65.22	PK	V	-4.35	60.87	105.2	-44.33
5650	64.69	PK	H	-4.72	59.97	68.2	-8.23
5650	65.12	PK	V	-4.72	60.40	68.2	-7.80
11490	47.35	PK	H	6.24	53.59	74	-20.41
11490	36.87	AV	H	6.24	43.11	54	-10.89
11490	47.88	PK	V	6.24	54.12	74	-19.88
11490	36.73	AV	V	6.24	42.97	54	-11.03
Middle Channel							
11570	47.99	PK	H	6.02	54.01	74	-19.99
11570	36.86	AV	H	6.02	42.88	54	-11.12
11570	47.84	PK	V	6.02	53.86	74	-20.14
11570	36.73	AV	V	6.02	42.75	54	-11.25
High Channel							
5850	72.66	PK	H	-4.54	68.12	122.2	-54.08
5850	73.12	PK	V	-4.54	68.58	122.2	-53.62
5855	66.09	PK	H	-4.48	61.61	110.8	-49.19
5855	67.12	PK	V	-4.48	62.64	110.8	-48.16
5875	65.54	PK	H	-4.20	61.34	105.2	-43.86
5875	64.32	PK	V	-4.20	60.12	105.2	-45.08
5925	66.29	PK	H	-4.27	62.02	68.2	-6.18
5925	65.77	PK	V	-4.27	61.50	68.2	-6.70
11650	49.28	PK	H	5.36	54.64	74	-19.36
11650	37.68	AV	H	5.36	43.04	54	-10.96
11650	48.82	PK	V	5.36	54.18	74	-19.82
11650	37.50	AV	V	5.36	42.86	54	-11.14

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax40							
Low Channel							
5725	65.47	PK	H	-4.45	61.02	122.2	-61.18
5725	67.98	PK	V	-4.45	63.53	122.2	-58.67
5720	65.00	PK	H	-4.43	60.57	110.8	-50.23
5720	66.34	PK	V	-4.43	61.91	110.8	-48.89
5700	65.33	PK	H	-4.35	60.98	105.2	-44.22
5700	64.77	PK	V	-4.35	60.42	105.2	-44.78
5650	63.89	PK	H	-4.72	59.17	68.2	-9.03
5650	64.26	PK	V	-4.72	59.54	68.2	-8.66
11510	47.78	PK	H	6.44	54.22	74	-19.78
11510	36.85	AV	H	6.44	43.29	54	-10.71
11510	47.67	PK	V	6.44	54.11	74	-19.89
11510	36.94	AV	V	6.44	43.38	54	-10.62
High Channel							
5850	65.22	PK	H	-4.54	60.68	122.2	-61.52
5850	64.94	PK	V	-4.54	60.40	122.2	-61.80
5855	65.19	PK	H	-4.48	60.71	110.8	-50.09
5855	66.09	PK	V	-4.48	61.61	110.8	-49.19
5875	65.38	PK	H	-4.20	61.18	105.2	-44.02
5875	66.12	PK	V	-4.20	61.92	105.2	-43.28
5925	65.57	PK	H	-4.27	61.30	68.2	-6.90
5925	65.47	PK	V	-4.27	61.20	68.2	-7.00
11590	47.42	PK	H	5.82	53.24	74	-20.76
11590	37.16	AV	H	5.82	42.98	54	-11.02
11590	48.13	PK	V	5.82	53.95	74	-20.05
11590	37.30	AV	V	5.82	43.12	54	-10.88

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ax80							
Low Channel							
5725	65.43	PK	H	-4.45	60.98	122.2	-61.22
5725	67.14	PK	V	-4.45	62.69	122.2	-59.51
5720	64.79	PK	H	-4.43	60.36	110.8	-50.44
5720	65.20	PK	V	-4.43	60.77	110.8	-50.03
5700	64.39	PK	H	-4.35	60.04	105.2	-45.16
5700	65.75	PK	V	-4.35	61.40	105.2	-43.80
5650	63.73	PK	H	-4.72	59.01	68.2	-9.19
5650	64.32	PK	V	-4.72	59.60	68.2	-8.60
5850	66.53	PK	H	-4.54	61.99	122.2	-60.21
5850	65.85	PK	V	-4.54	61.31	122.2	-60.89
5855	65.05	PK	H	-4.48	60.57	110.8	-50.23
5855	65.92	PK	V	-4.48	61.44	110.8	-49.36
5875	65.09	PK	H	-4.20	60.89	105.2	-44.31
5875	64.66	PK	V	-4.20	60.46	105.2	-44.74
5925	66.28	PK	H	-4.27	62.01	68.2	-6.19
5925	65.03	PK	V	-4.27	60.76	68.2	-7.44
11550	48.27	PK	H	6.21	54.48	74	-19.52
11550	37.03	AV	H	6.21	43.24	54	-10.76
11550	48.10	PK	V	6.21	54.31	74	-19.69
11550	36.98	AV	V	6.21	43.19	54	-10.81

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11be20							
Low Channel							
5725	69.61	PK	H	-4.45	65.16	122.2	-57.04
5725	71.31	PK	V	-4.45	66.86	122.2	-55.34
5720	66.39	PK	H	-4.43	61.96	110.8	-48.84
5720	71.15	PK	V	-4.43	66.72	110.8	-44.08
5700	65.51	PK	H	-4.35	61.16	105.2	-44.04
5700	65.34	PK	V	-4.35	60.99	105.2	-44.21
5650	63.97	PK	H	-4.72	59.25	68.2	-8.95
5650	65.07	PK	V	-4.72	60.35	68.2	-7.85
11490	47.41	PK	H	6.24	53.65	74	-20.35
11490	36.87	AV	H	6.24	43.11	54	-10.89
11490	47.77	PK	V	6.24	54.01	74	-19.99
11490	36.74	AV	V	6.24	42.98	54	-11.02
Middle Channel							
11570	47.51	PK	H	6.02	53.53	74	-20.47
11570	36.90	AV	H	6.02	42.92	54	-11.08
11570	48.05	PK	V	6.02	54.07	74	-19.93
11570	37.22	AV	V	6.02	43.24	54	-10.76
High Channel							
5850	65.41	PK	H	-4.54	60.87	122.2	-61.33
5850	66.17	PK	V	-4.54	61.63	122.2	-60.57
5855	64.52	PK	H	-4.48	60.04	110.8	-50.76
5855	64.77	PK	V	-4.48	60.29	110.8	-50.51
5875	65.27	PK	H	-4.20	61.07	105.2	-44.13
5875	64.41	PK	V	-4.20	60.21	105.2	-44.99
5925	65.24	PK	H	-4.27	60.97	68.2	-7.23
5925	65.23	PK	V	-4.27	60.96	68.2	-7.24
11650	48.50	PK	H	5.36	53.86	74	-20.14
11650	37.59	AV	H	5.36	42.95	54	-11.05
11650	48.98	PK	V	5.36	54.34	74	-19.66
11650	37.94	AV	V	5.36	43.30	54	-10.70

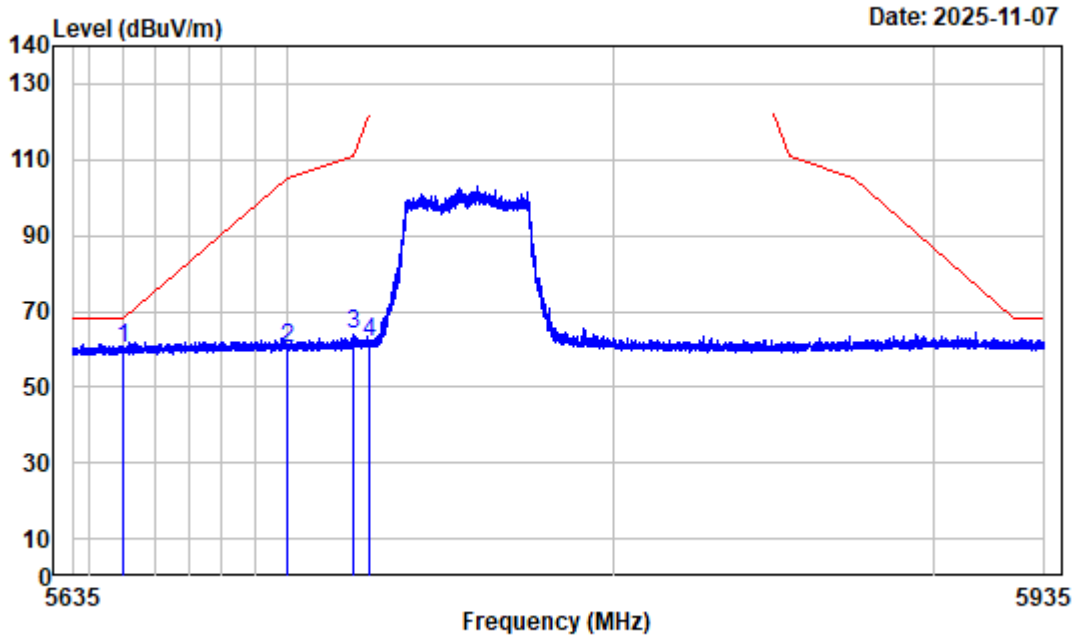
Frequency (MHz)	Reading (dBµV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.11be40							
Low Channel							
5725	66.39	PK	H	-4.45	61.94	122.2	-60.26
5725	68.37	PK	V	-4.45	63.92	122.2	-58.28
5720	68.25	PK	H	-4.43	63.82	110.8	-46.98
5720	67.67	PK	V	-4.43	63.24	110.8	-47.56
5700	64.77	PK	H	-4.35	60.42	105.2	-44.78
5700	64.92	PK	V	-4.35	60.57	105.2	-44.63
5650	64.97	PK	H	-4.72	60.25	68.2	-7.95
5650	64.41	PK	V	-4.72	59.69	68.2	-8.51
11510	47.27	PK	H	6.44	53.71	74	-20.29
11510	36.46	AV	H	6.44	42.90	54	-11.10
11510	47.01	PK	V	6.44	53.45	74	-20.55
11510	36.19	AV	V	6.44	42.63	54	-11.37
High Channel							
5850	64.97	PK	H	-4.54	60.43	122.2	-61.77
5850	65.25	PK	V	-4.54	60.71	122.2	-61.49
5855	65.66	PK	H	-4.48	61.18	110.8	-49.62
5855	64.78	PK	V	-4.48	60.30	110.8	-50.50
5875	65.12	PK	H	-4.20	60.92	105.2	-44.28
5875	64.95	PK	V	-4.20	60.75	105.2	-44.45
5925	66.45	PK	H	-4.27	62.18	68.2	**-6.02**
5925	64.88	PK	V	-4.27	60.61	68.2	-7.59
11590	48.33	PK	H	5.82	54.15	74	-19.85
11590	37.52	AV	H	5.82	43.34	54	-10.66
11590	48.80	PK	V	5.82	54.62	74	-19.38
11590	37.69	AV	V	5.82	43.51	54	-10.49

Frequency (MHz)	Reading (dBμV)	Pk/Ave	Polar (H/V)	Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11be80							
Low Channel							
5725	64.87	PK	H	-4.45	60.42	122.2	-61.78
5725	66.96	PK	V	-4.45	62.51	122.2	-59.69
5720	64.91	PK	H	-4.43	60.48	110.8	-50.32
5720	66.35	PK	V	-4.43	61.92	110.8	-48.88
5700	64.61	PK	H	-4.35	60.26	105.2	-44.94
5700	66.06	PK	V	-4.35	61.71	105.2	-43.49
5650	66.03	PK	H	-4.72	61.31	68.2	-6.89
5650	64.38	PK	V	-4.72	59.66	68.2	-8.54
5850	66.38	PK	H	-4.54	61.84	122.2	-60.36
5850	65.00	PK	V	-4.54	60.46	122.2	-61.74
5855	65.42	PK	H	-4.48	60.94	110.8	-49.86
5855	65.30	PK	V	-4.48	60.82	110.8	-49.98
5875	65.00	PK	H	-4.20	60.80	105.2	-44.40
5875	64.76	PK	V	-4.20	60.56	105.2	-44.64
5925	65.42	PK	H	-4.27	61.15	68.2	-7.05
5925	65.55	PK	V	-4.27	61.28	68.2	-6.92
11550	47.67	PK	H	6.21	53.88	74	-20.12
11550	36.79	AV	H	6.21	43.00	54	-11.00
11550	47.31	PK	V	6.21	53.52	74	-20.48
11550	36.64	AV	V	6.21	42.85	54	-11.15

Note 1: Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Note 2: Absolute Level = Factor + Reading
Note 3: Margin = Absolute Level - Limit
Note 4: The other spurious emission which is in the noise floor level was not recorded.
Note 5: The test result of peak was less than the limit of average, so just peak values were recorded.

Band Edge(Listed with the worst mode margin test plot)

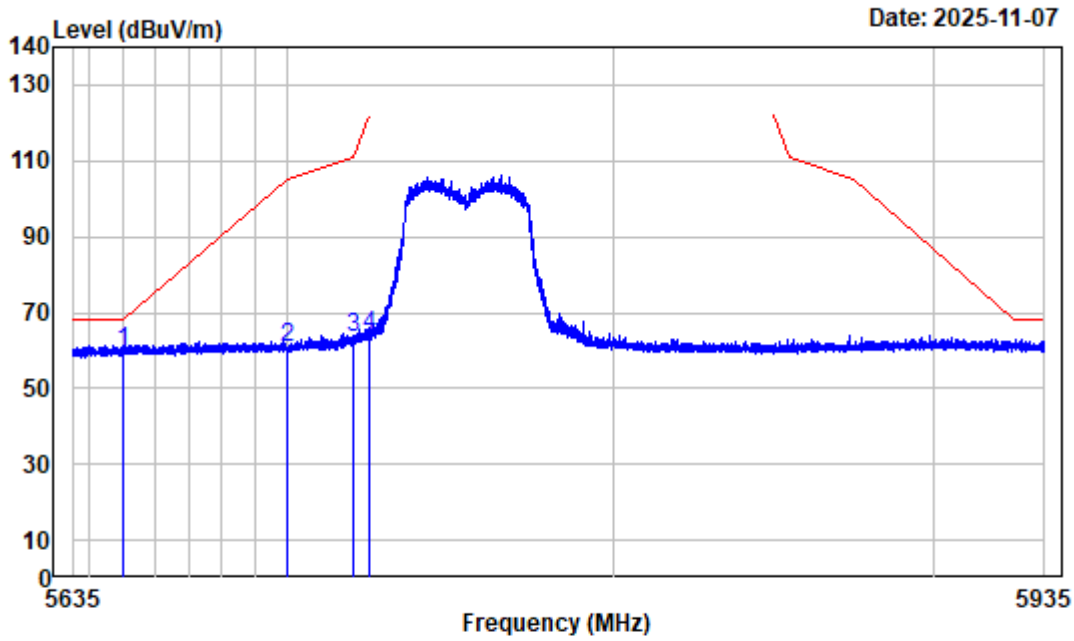
5.8G WIFI 802.11be40 Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11be40 Low Channel 5755MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-4.72	64.97	60.25	68.20	-7.95	peak
2	5700.000	-4.35	64.77	60.42	105.20	-44.78	peak
3	5720.000	-4.43	68.25	63.82	110.80	-46.98	peak
4	5725.000	-4.45	66.39	61.94	122.20	-60.26	peak

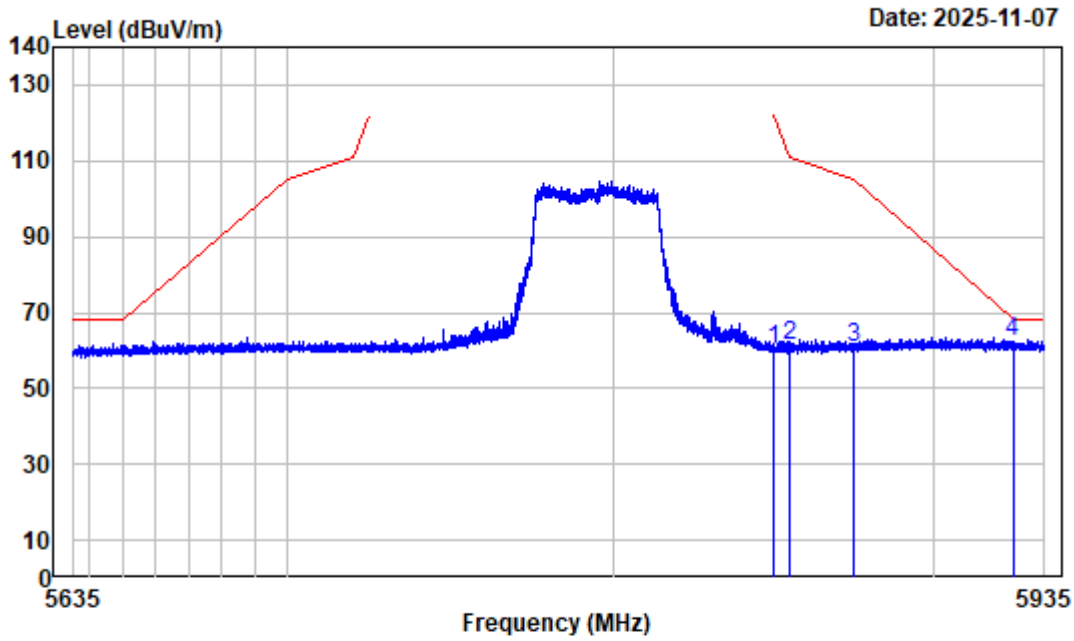
5.8G WIFI 802.11be40 Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11be40 Low Channel 5755MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5650.000	-4.72	64.41	59.69	68.20	-8.51	peak
2	5700.000	-4.35	64.92	60.57	105.20	-44.63	peak
3	5720.000	-4.43	67.67	63.24	110.80	-47.56	peak
4	5725.000	-4.45	68.37	63.92	122.20	-58.28	peak

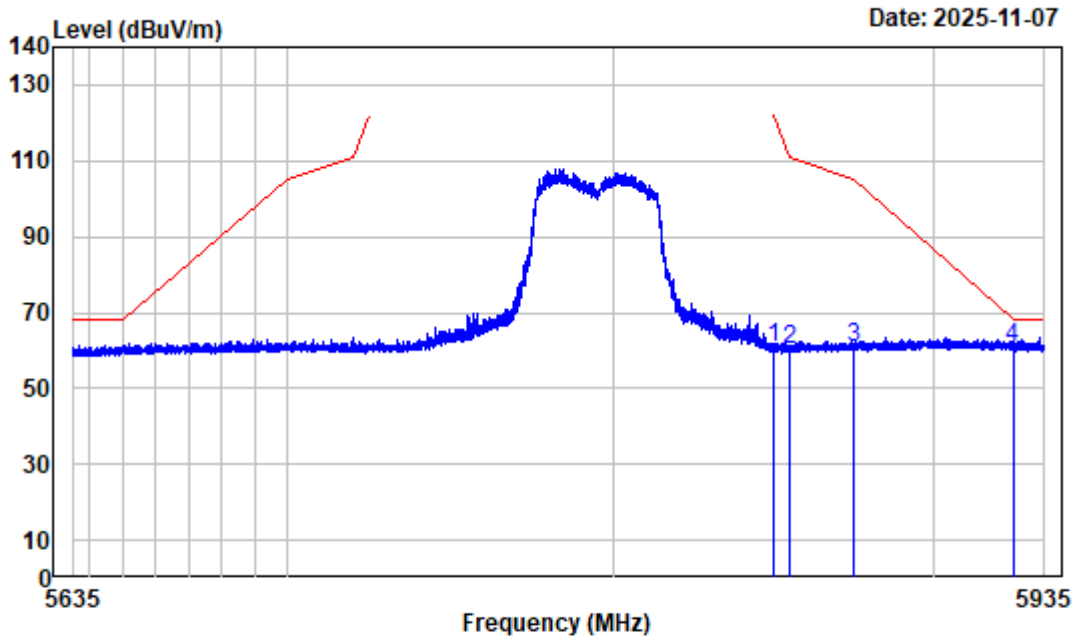
5.8G WIFI 802.11be40 High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11be40 High Channel 5795MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5850.000	-4.54	64.97	60.43	122.20	-61.77	peak
2	5855.000	-4.48	65.66	61.18	110.80	-49.62	peak
3	5875.000	-4.20	65.12	60.92	105.20	-44.28	peak
4	5925.000	-4.27	66.45	62.18	68.20	-6.02	peak

5.8G WIFI 802.11be40 High Channel Bandedge_VERTICAL

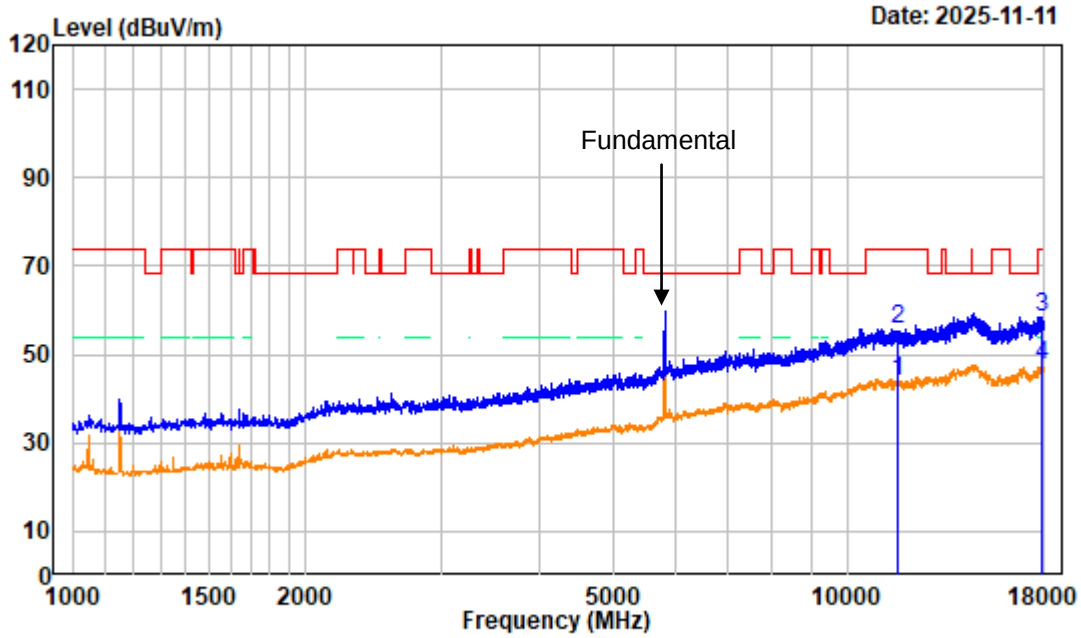


Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11be40 High Channel 5795MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5850.000	-4.54	65.25	60.71	122.20	-61.49	peak
2	5855.000	-4.48	64.78	60.30	110.80	-50.50	peak
3	5875.000	-4.20	64.95	60.75	105.20	-44.45	peak
4	5925.000	-4.27	64.88	60.61	68.20	-7.59	peak

1-18GHz (Listed with the worst harmonic margin test plot)

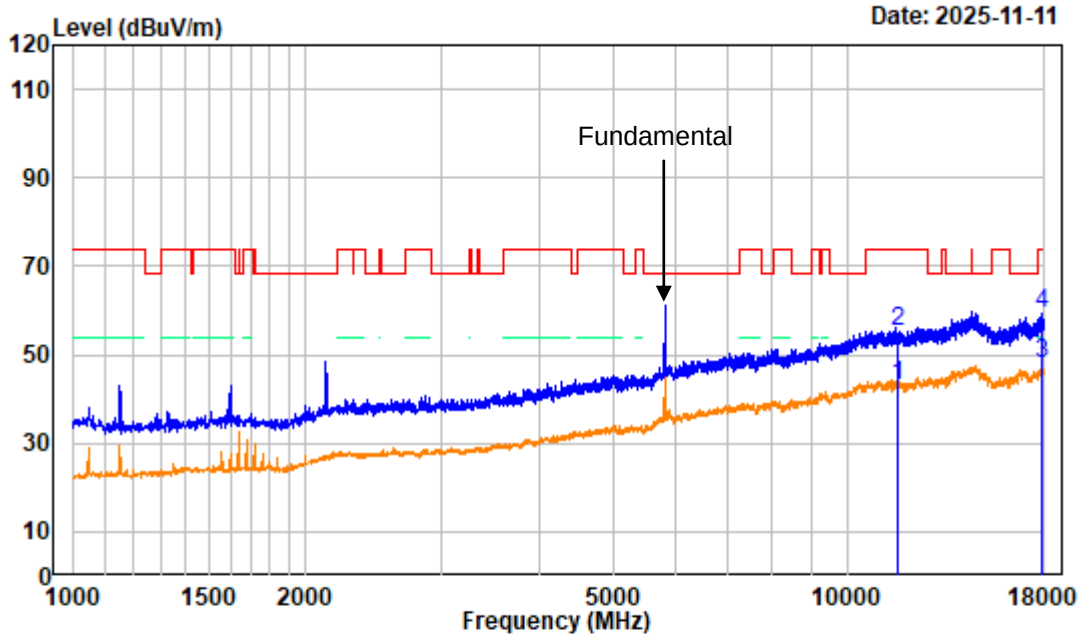
5.8G WIFI 802.11a Low Channel 1-18G Ant0_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11a High Channel 5825MHz 1GHz-18GHz ANT0
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	5.36	38.53	43.89	54.00	-10.11	Average
2	11650.000	5.36	50.27	55.63	74.00	-18.37	Peak
3	17912.880	8.24	50.29	58.53	74.00	-15.47	Peak
4	17912.880	8.24	39.52	47.76	54.00	-6.24	Average

5.8G WIFI 802.11a Low Channel 1-18G Ant0_VERTICAL

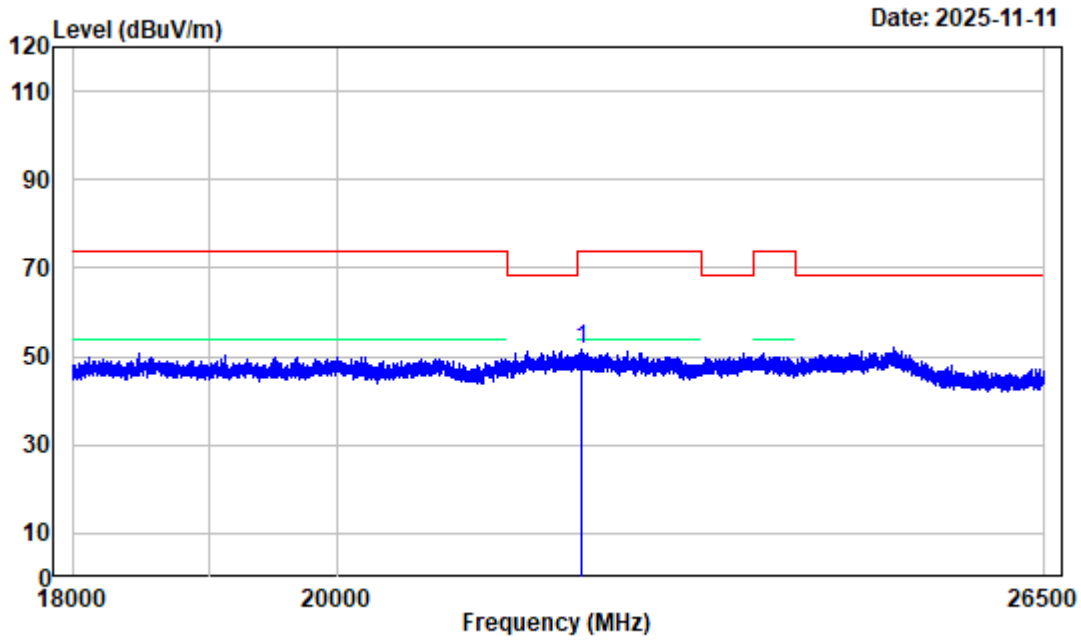


Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5G WIFI 802.11a High Channel 5825MHz 1GHz-18GHz ANT0
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	11650.000	5.36	37.85	43.21	54.00	-10.79	Average
2	11650.000	5.36	49.81	55.17	74.00	-18.83	peak
3	17906.500	8.24	39.56	47.80	54.00	-6.20	Average
4	17906.500	8.24	50.95	59.19	74.00	-14.81	Peak

18-40GHz (Only Listed with the worst harmonic margin test plot)

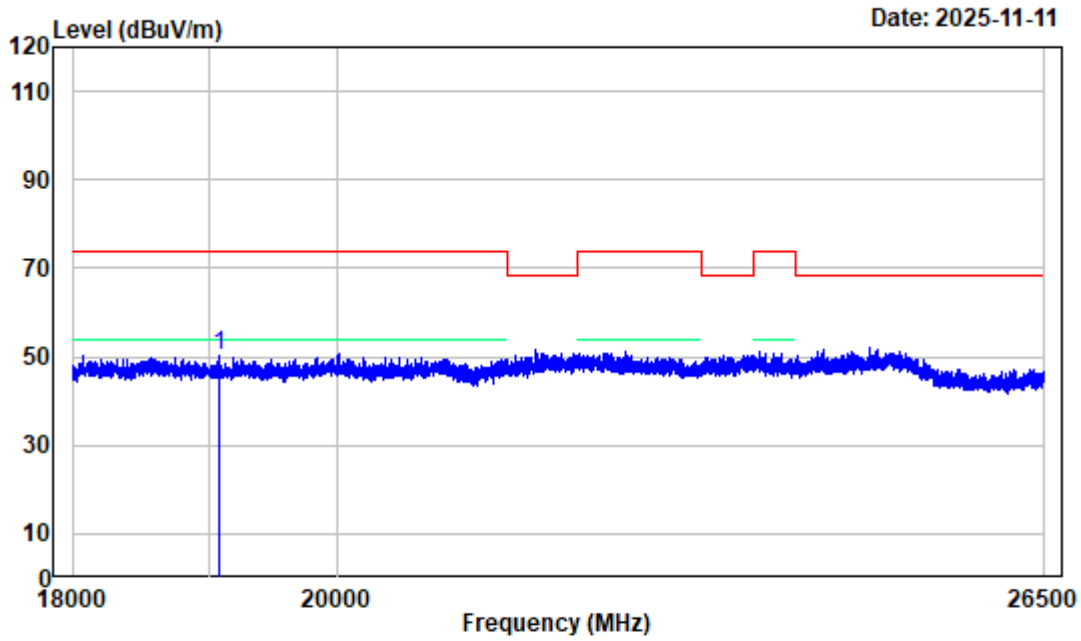
5.8G WIFI 802.11a High Channel 18-26.5G Ant0_HORIZONTAL



Site : chamber
Condition : 3m Horizontal
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.8G WIFI 802.11a High Channel 18-26.5G Ant0
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	22039.630	0.71	50.85	51.56	74.00	-22.44	Peak

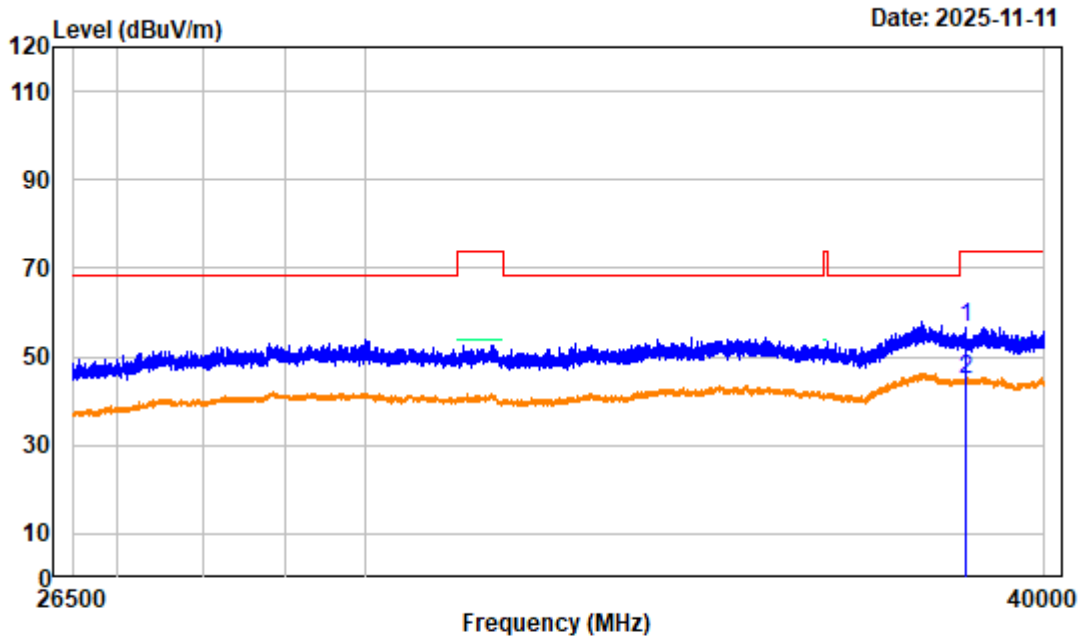
5.8G WIFI 802.11a High Channel 18-26.5G Ant0_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.8G WIFI 802.11a High Channel 18-26.5G Ant0
SA setting : Peak:RBW:1MHz,VBW:3MHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	19089.060	-4.58	54.94	50.36	74.00	-23.64	Peak

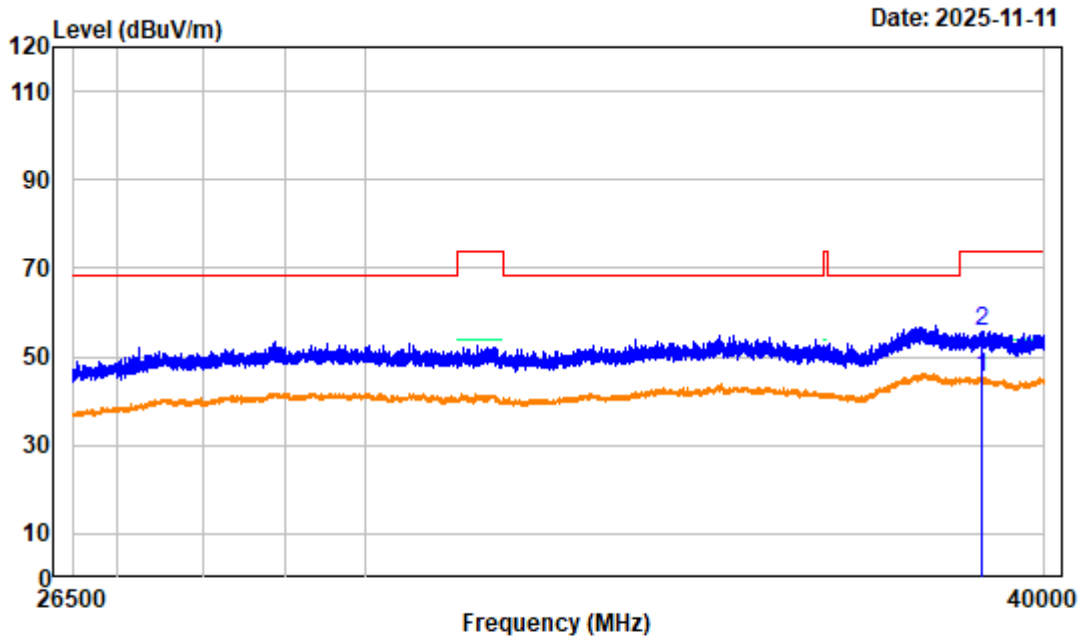
5.8G WIFI 802.11a High Channel 26.5-40G Ant0_HORIZONTAL



Site : chamber
Condition : 3m Horizontal
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.8G WIFI 802.11a High Channel 26.5-40G Ant0
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38678.690	6.25	50.19	56.44	74.00	-17.56	Peak
2	38678.690	6.25	38.69	44.94	54.00	-9.06	Average

5.8G WIFI 802.11a High Channel 26.5-40G Ant0_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504X04187E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 5.8G WIFI 802.11a High Channel 26.5-40G Ant0
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	38965.560	6.29	38.78	45.07	54.00	-8.93	Average
2	38965.560	6.29	49.26	55.55	74.00	-18.45	Peak

EMISSION BANDWIDTH

Applicable Standard

According to FCC §15.407(a), the maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

According to FCC §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C. and section II.D.

1. Emission Bandwidth (EBW)
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

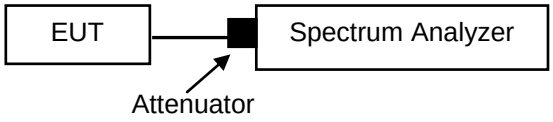
2. **Minimum Emission Bandwidth for the band 5.725-5.85 GHz**
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) 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.

3. 99% Occupied Bandwidth
The 99% 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. Measurement of the 99% occupied bandwidth is *required* only as a condition for using the optional bandedge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with Section 15.407(a).

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

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

Note: For devices that use channel aggregation refer to III.A and III.C for determining 99% bandwidth.



Test Data

Test Result: Compliance. Please refer to the Appendix.

CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

According to FCC §15.407(a)

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in sany 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

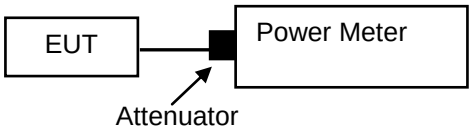
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11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

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

Test Procedure

According to KDB789033 D02 section II.E.3.a).

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data

Test Result: Compliance. Please refer to the Appendix.

POWER SPECTRAL DENSITY

Applicable Standard

According to FCC §15.407(a)

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

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

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

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

Test Procedure

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

Duty cycle ≥98%

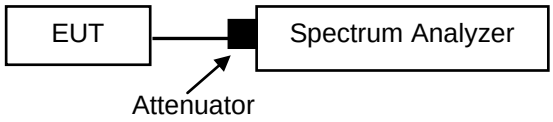
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than ±2%

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

Duty cycle <98%, duty cycle variations exceed ±2%

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



Test Data

Test Result: Compliance. Please refer to the Appendix.

DUTY CYCLE

Test Procedure

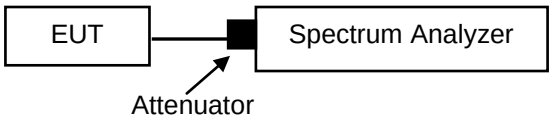
According to ANSI C63.10-2020 Section 11.6

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

b) 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 ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)



Test Data

Test Result: Compliance. Please refer to the Appendix.

APPENDIX

Test Information:

Sample No.:	3AYL-1	**Test Date:**	2025/10/06~2025/10/18
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Len Lin	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.6~26.5	**Relative Humidity: (%)**	48-54	**ATM Pressure: (kPa)**	100.7

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	22.438
		5200	22.827
		5240	22.406
	Chain 1	5180	22.467
		5200	22.634
		5240	22.547
802.11ac20	Chain 0	5180	22.903
		5200	22.781
		5240	23.155
	Chain 1	5180	23.366
		5200	23.087
		5240	22.544
802.11ac40	Chain 0	5190	44.044
		5230	45.045
	Chain 1	5190	44.845
		5230	45.145
802.11ac80	Chain 0	5210	88.889
	Chain 1	5210	91.091
802.11ax20_RU_Full	Chain 0	5180	23.334
		5200	23.062
		5240	22.889
	Chain 1	5180	22.827
		5200	23.366
		5240	23.036

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11ax40_RU_Full	Chain 0	5190	44.144
		5230	45.646
	Chain 1	5190	44.144
		5230	44.244
802.11ax80_RU_Full	Chain 0	5210	88.088
	Chain 1	5210	88.488
802.11be20_RU_Full	Chain 0	5180	23.118
		5200	23.252
		5240	23.282
	Chain 1	5180	23.717
		5200	23.381
		5240	23.314
802.11be40_RU_Full	Chain 0	5190	43.844
		5230	44.044
	Chain 1	5190	44.545
		5230	43.944
802.11be80_RU_Full	Chain 0	5210	89.690
	Chain 1	5210	88.088

6dB Emission Bandwidth

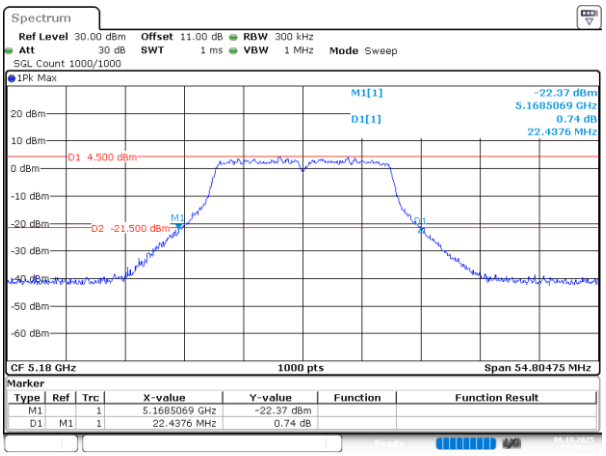
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	16.416	0.5	Pass
		5785	16.416	0.5	Pass
		5825	16.416	0.5	Pass
	Chain 1	5745	16.416	0.5	Pass
		5785	16.416	0.5	Pass
		5825	16.416	0.5	Pass
802.11ac20	Chain 0	5745	17.818	0.5	Pass
		5785	17.918	0.5	Pass
		5825	17.918	0.5	Pass
	Chain 1	5745	17.868	0.5	Pass
		5785	17.818	0.5	Pass
		5825	17.868	0.5	Pass
802.11ac40	Chain 0	5755	36.637	0.5	Pass
		5795	36.637	0.5	Pass
	Chain 1	5755	36.637	0.5	Pass
		5795	36.737	0.5	Pass
802.11ac80	Chain 0	5775	76.877	0.5	Pass
	Chain 1	5775	76.877	0.5	Pass
802.11ax20_RU_Full	Chain 0	5745	19.219	0.5	Pass
		5785	19.219	0.5	Pass
		5825	19.319	0.5	Pass
	Chain 1	5745	19.219	0.5	Pass
		5785	19.219	0.5	Pass
		5825	19.219	0.5	Pass

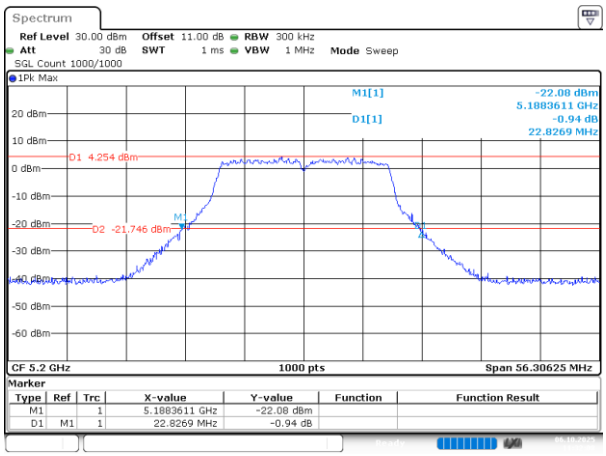
Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11ax40_RU_Full	Chain 0	5755	38.438	0.5	Pass
		5795	38.438	0.5	Pass
	Chain 1	5755	38.438	0.5	Pass
		5795	38.438	0.5	Pass
802.11ax80_RU_Full	Chain 0	5775	78.679	0.5	Pass
	Chain 1	5775	78.679	0.5	Pass
802.11be20_RU_Full	Chain 0	5745	19.269	0.5	Pass
		5785	19.219	0.5	Pass
		5825	19.269	0.5	Pass
	Chain 1	5745	19.219	0.5	Pass
		5785	19.219	0.5	Pass
		5825	19.219	0.5	Pass
802.11be40_RU_Full	Chain 0	5755	38.438	0.5	Pass
		5795	38.438	0.5	Pass
	Chain 1	5755	38.438	0.5	Pass
		5795	38.438	0.5	Pass
802.11be80_RU_Full	Chain 0	5775	78.679	0.5	Pass
	Chain 1	5775	78.679	0.5	Pass

5150-5250MHz

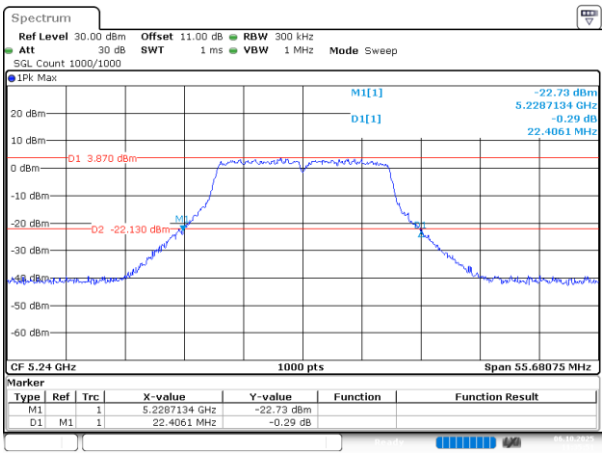
802.11a_5180MHz_Chain 0



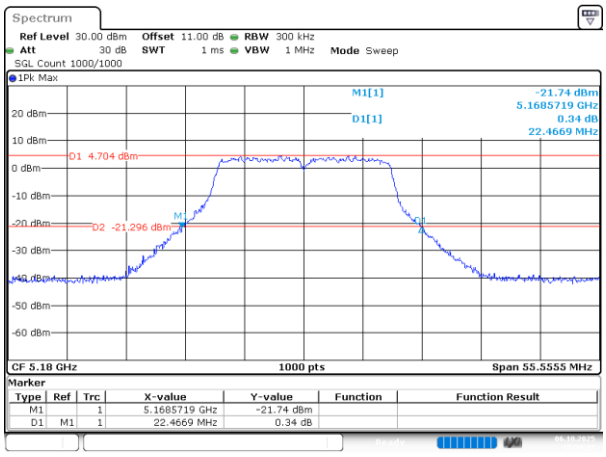
802.11a_5200MHz_Chain 0



802.11a_5240MHz_Chain 0



802.11a_5180MHz_Chain 1



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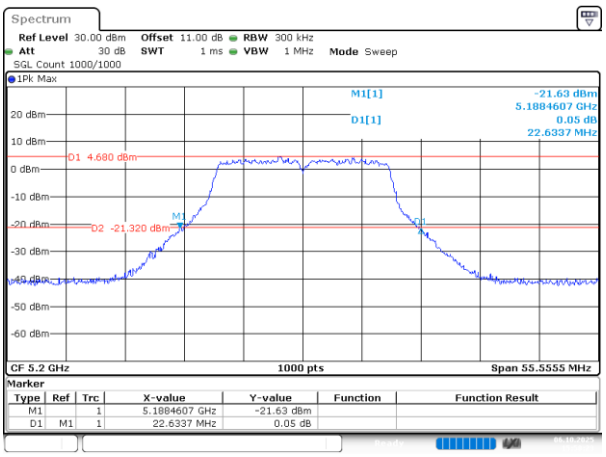

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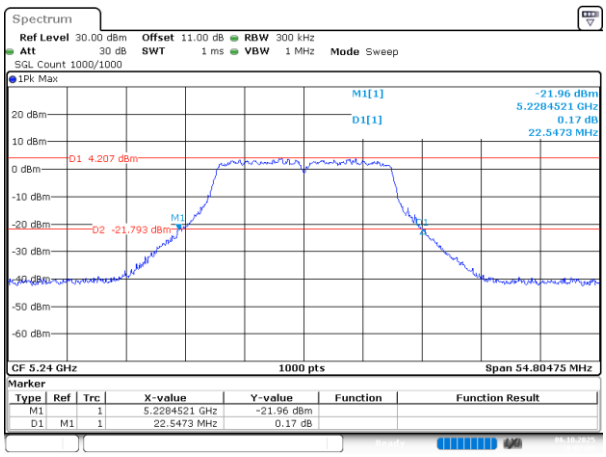
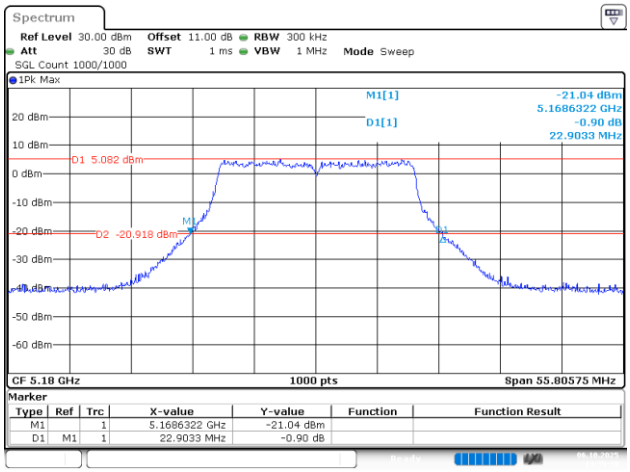


802.11ac20_5180MHz_Chain 0



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Date: 6.OCT.2025 14:39:10

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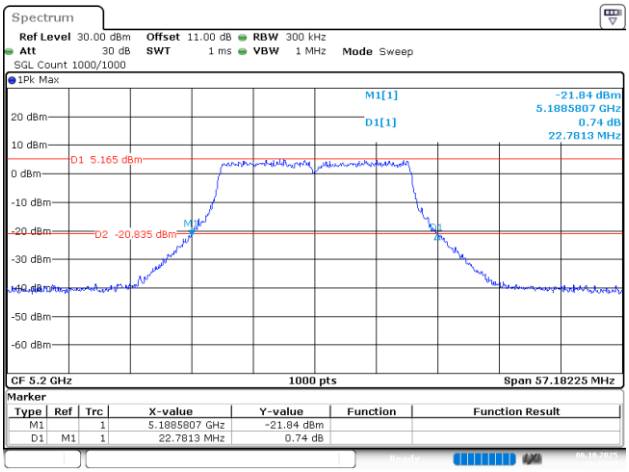

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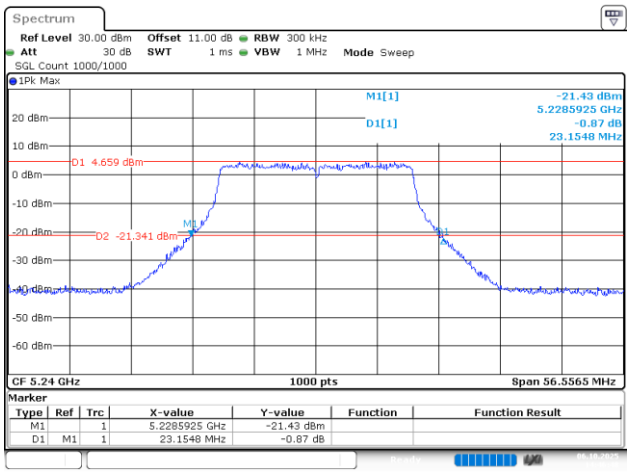
Date: 6.OCT.2025 14:42:58

802.11ac20_5240MHz_Chain 0



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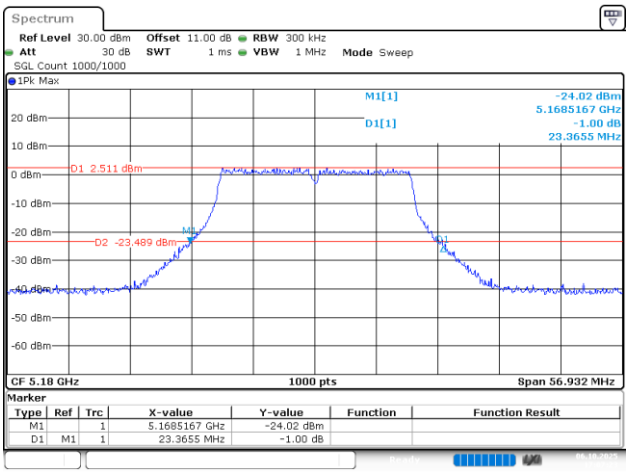
Date: 6.OCT.2025 14:46:48

802.11ac20_5180MHz_Chain 1



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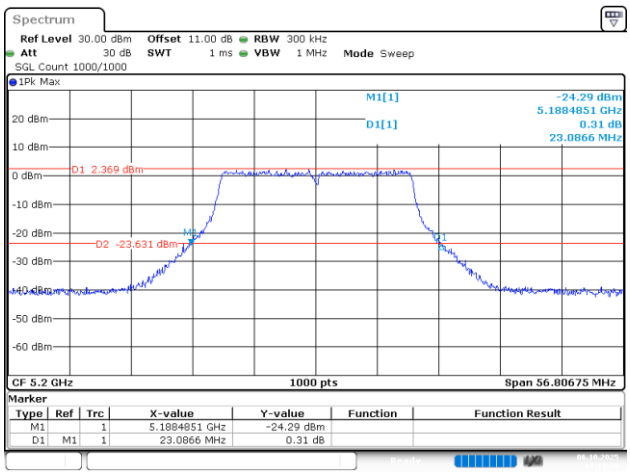
Date: 6.OCT.2025 17:07:24

802.11ac20_5200MHz_Chain 1



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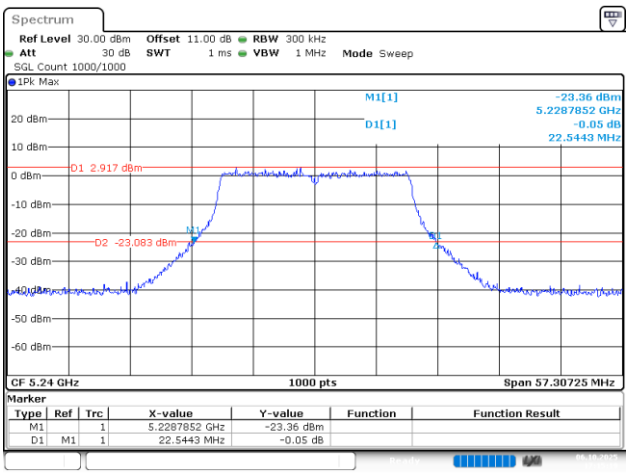
Date: 6.OCT.2025 17:11:26

802.11ac20_5240MHz_Chain 1



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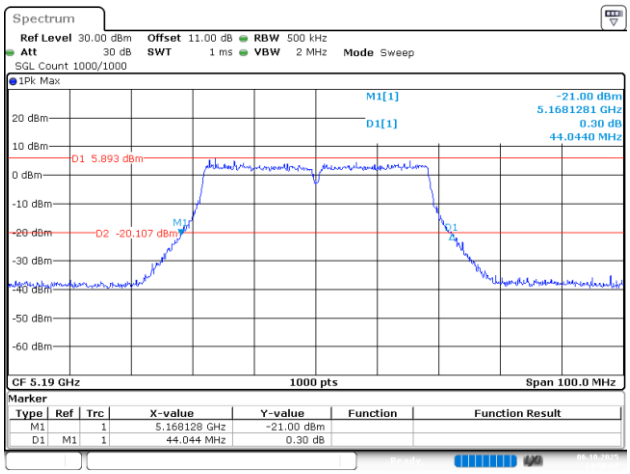
Date: 6.OCT.2025 17:15:20

802.11ac40_5190MHz_Chain 0



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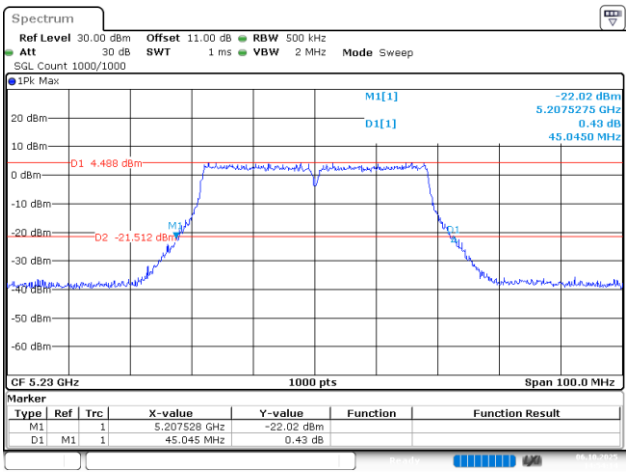
Date: 6.OCT.2025 14:50:32

802.11ac40_5230MHz_Chain 0



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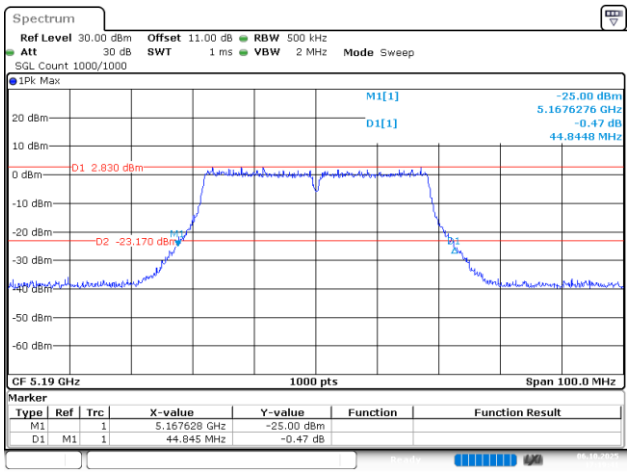
Date: 6.OCT.2025 14:54:14

802.11ac40_5190MHz_Chain 1



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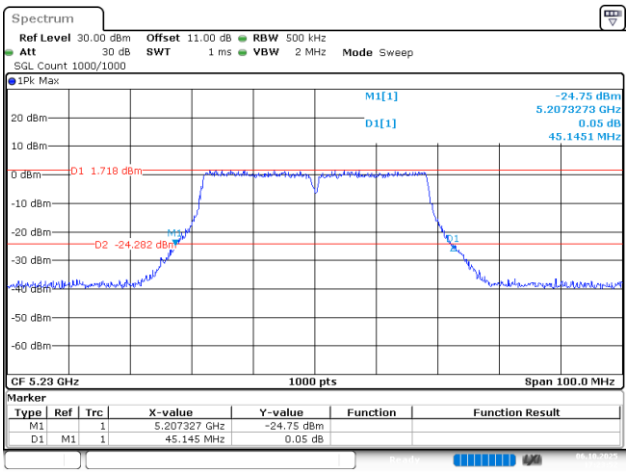
Date: 6.OCT.2025 17:19:41

802.11ac40_5230MHz_Chain 1



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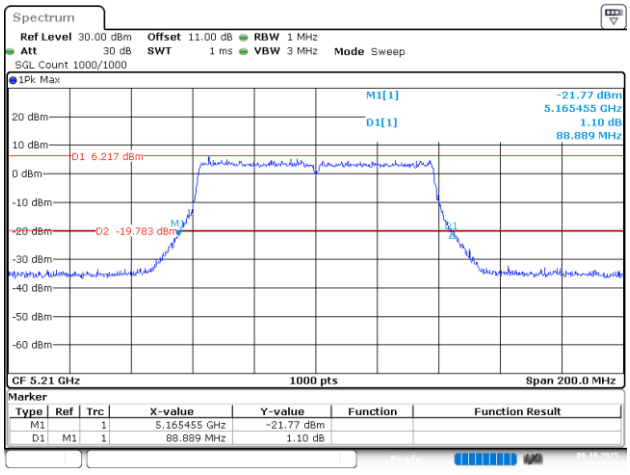
Date: 6.OCT.2025 17:23:53

802.11ac80_5210MHz_Chain 0



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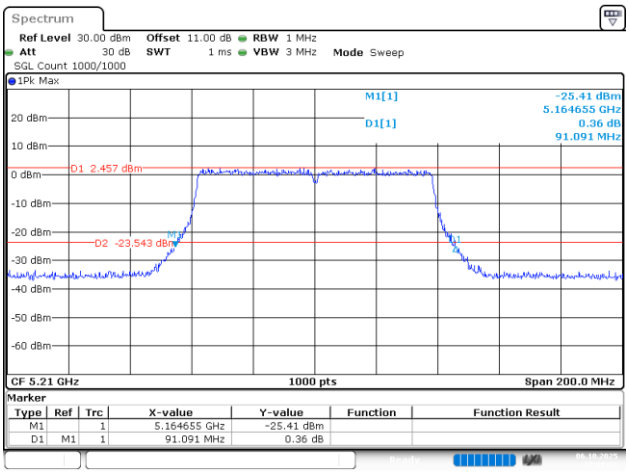
Date: 6.OCT.2025 14:58:13

802.11ac80_5210MHz_Chain 1



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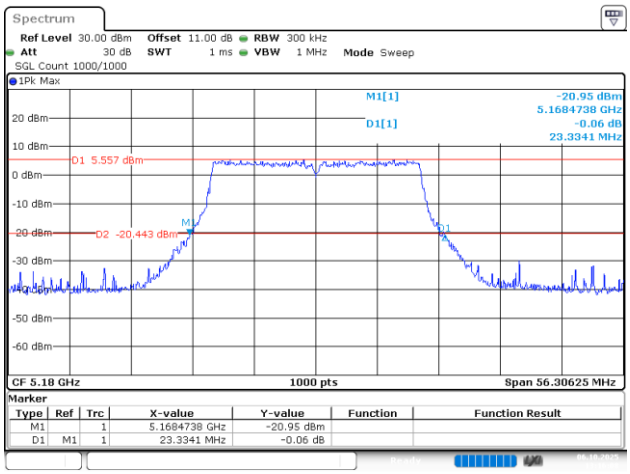
Date: 6.OCT.2025 17:28:52

802.11ax20_5180MHz_RU_Full_Chain 0



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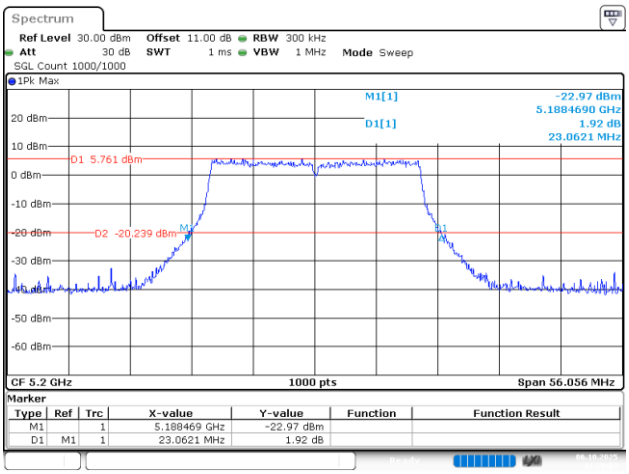
Date: 6.OCT.2025 13:16:09

802.11ax20_5200MHz_RU_Full_Chain 0



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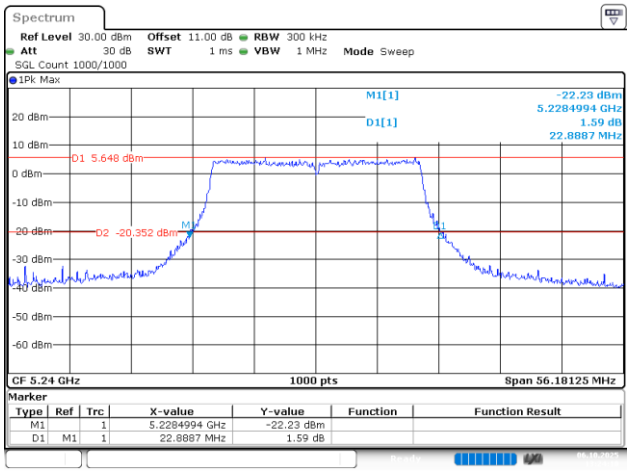
Date: 6.OCT.2025 13:20:04

802.11ax20_5240MHz_RU_Full_Chain 0



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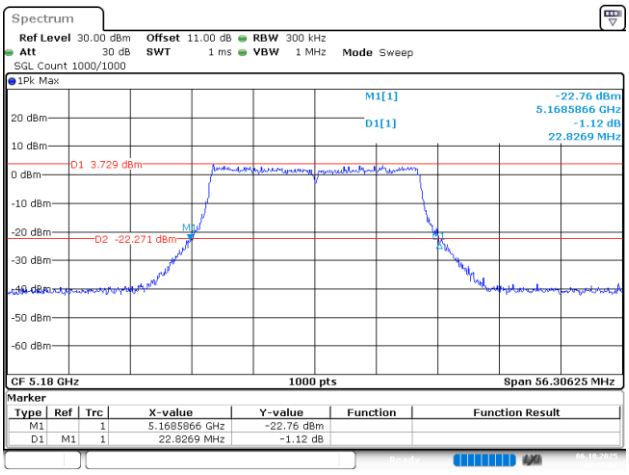
Date: 6.OCT.2025 13:24:11

802.11ax20_5180MHz_RU_Full_Chain 1



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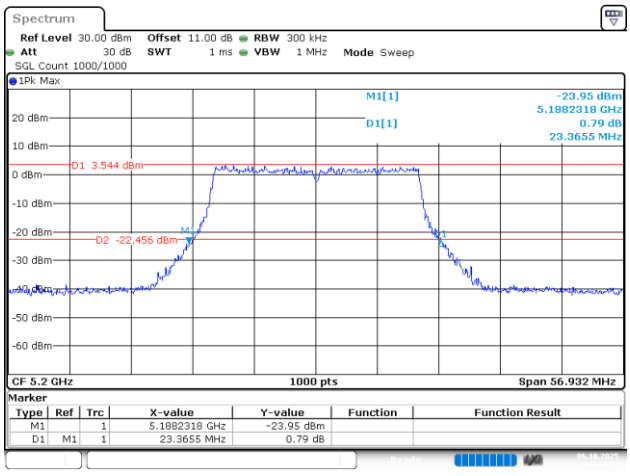
802.11ax20_5200MHz_RU_Full_Chain 1



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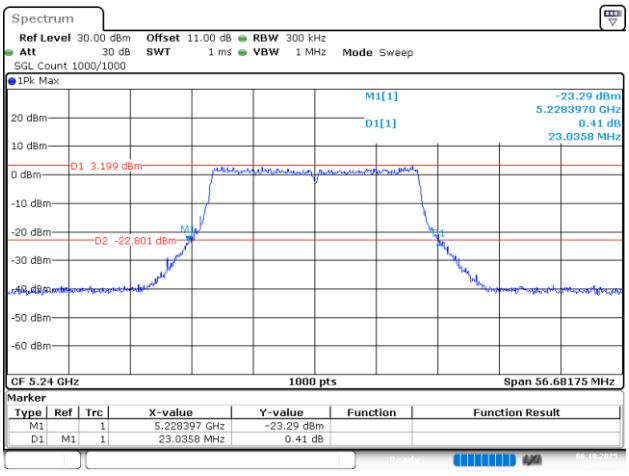
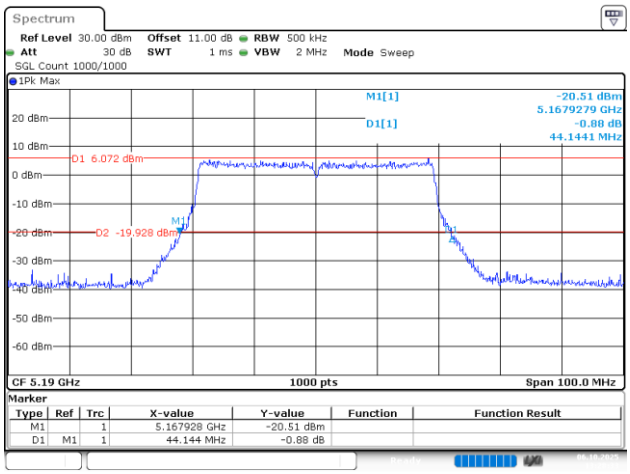
Date: 6.OCT.2025 16:44:58

802.11ax20_5240MHz_RU_Full_Chain 1



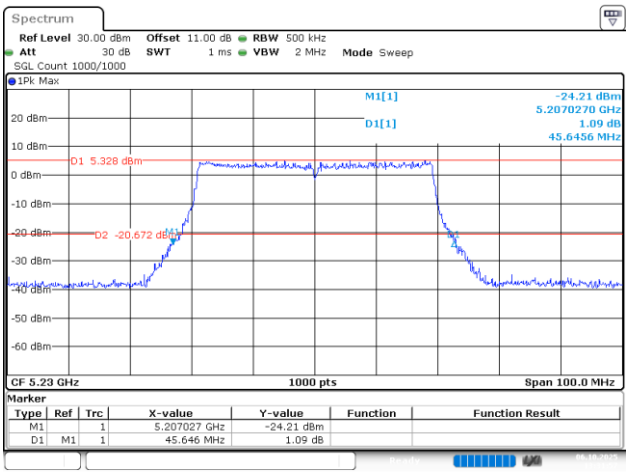
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 16:48:48

802.11ax40_5190MHz_RU_Full_Chain 0



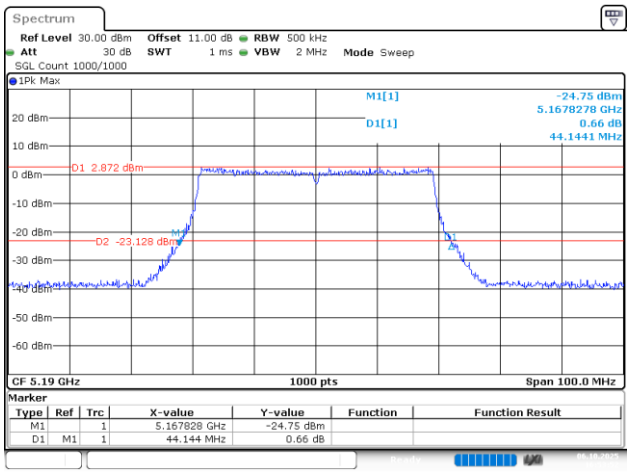
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 13:28:33

802.11ax40_5230MHz_RU_Full_Chain 0



ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 13:31:57

802.11ax40_5190MHz_RU_Full_Chain 1



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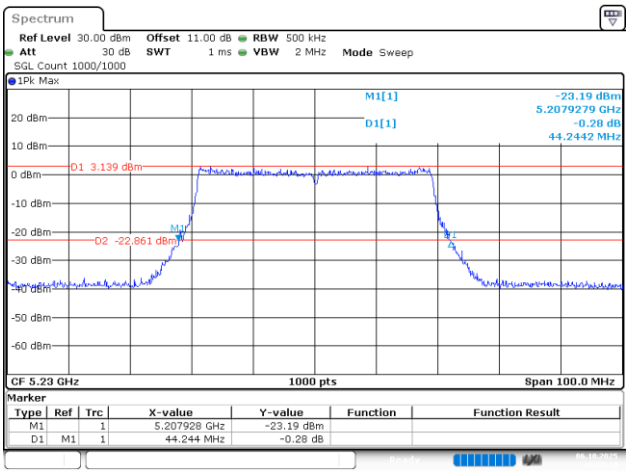
Date: 6.OCT.2025 16:53:53

802.11ax40_5230MHz_RU_Full_Chain 1



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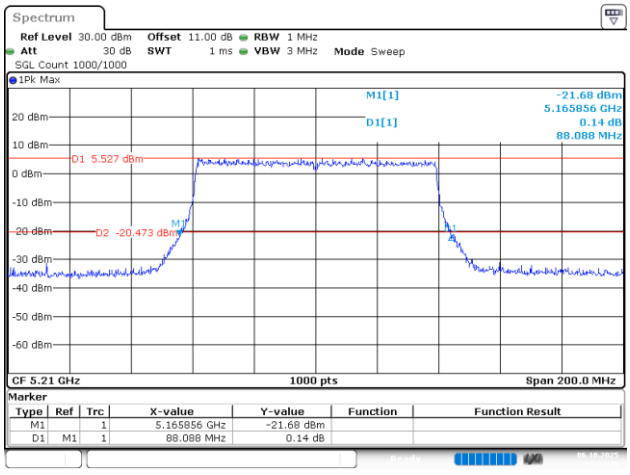
Date: 6.OCT.2025 16:57:20

802.11ax80_5210MHz_RU_Full_Chain 0



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Date: 6.OCT.2025 14:24:47

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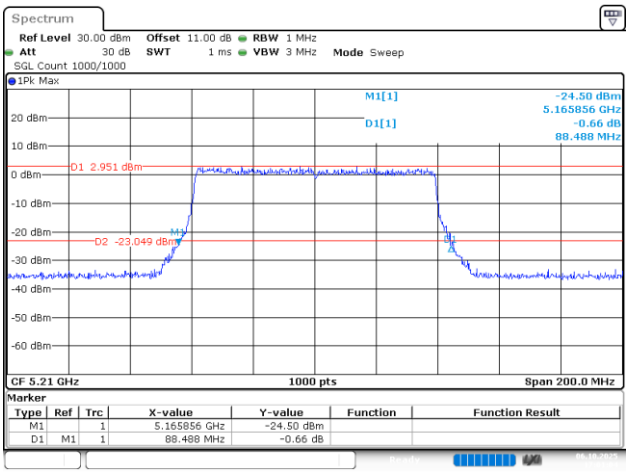
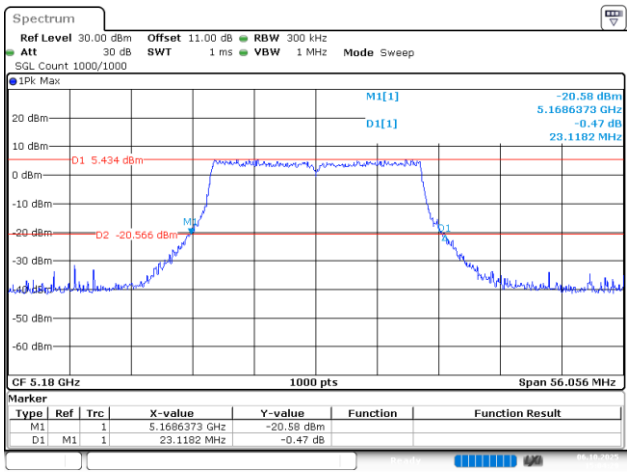


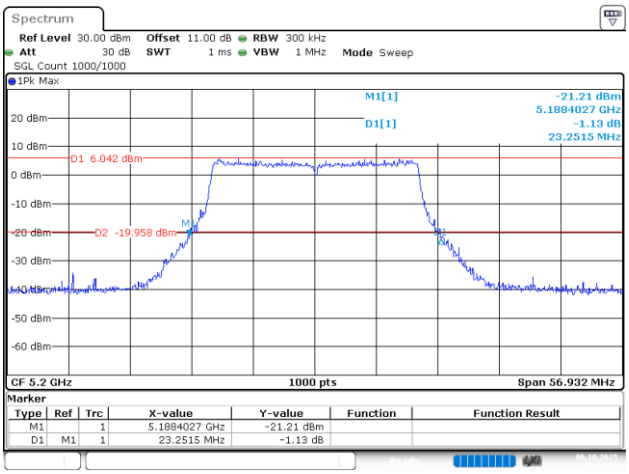
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:01:05

802.11be20_5180MHz_RU_Full_Chain 0



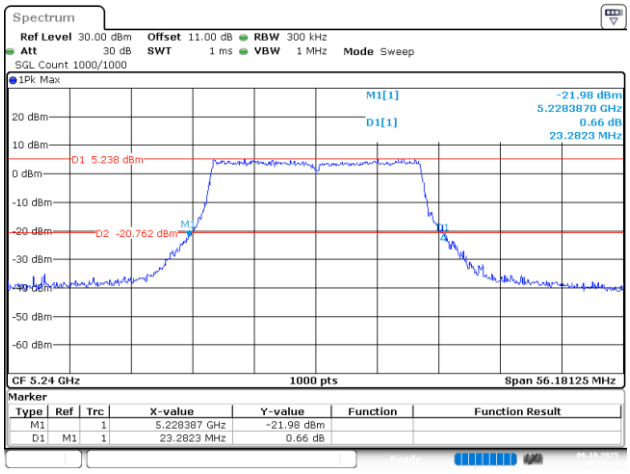
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 15:04:29

802.11be20_5200MHz_RU_Full_Chain 0



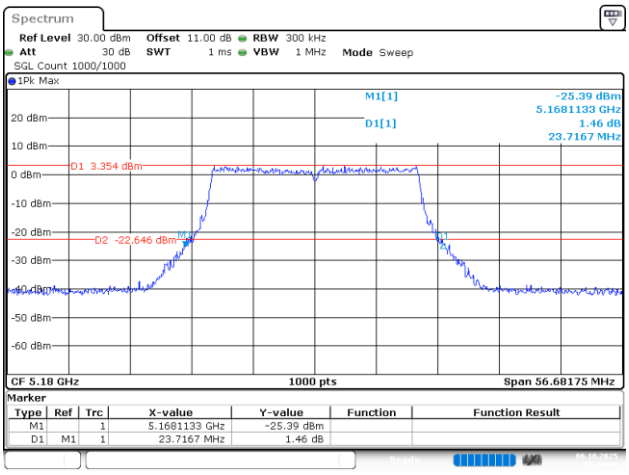
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 15:08:46

802.11be20_5240MHz_RU_Full_Chain 0



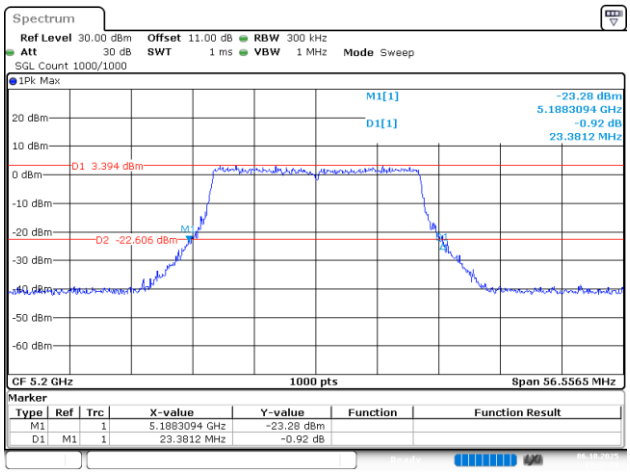
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 15:13:43

802.11be20_5180MHz_RU_Full_Chain 1



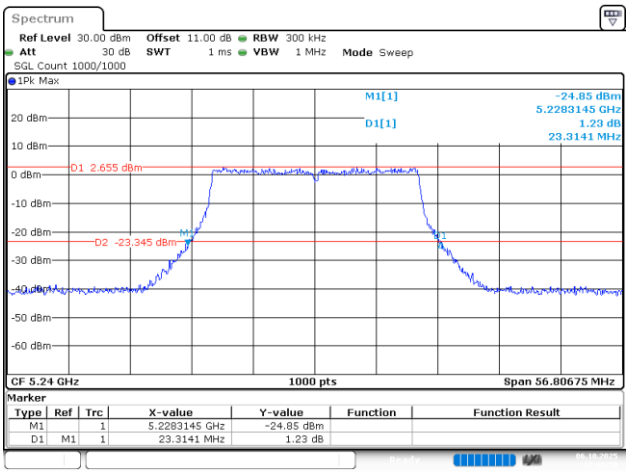
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:34:05

802.11be20_5200MHz_RU_Full_Chain 1



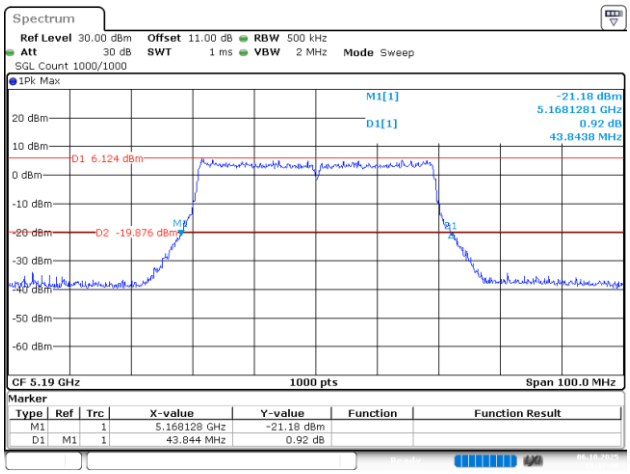
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:38:00

802.11be20_5240MHz_RU_Full_Chain 1



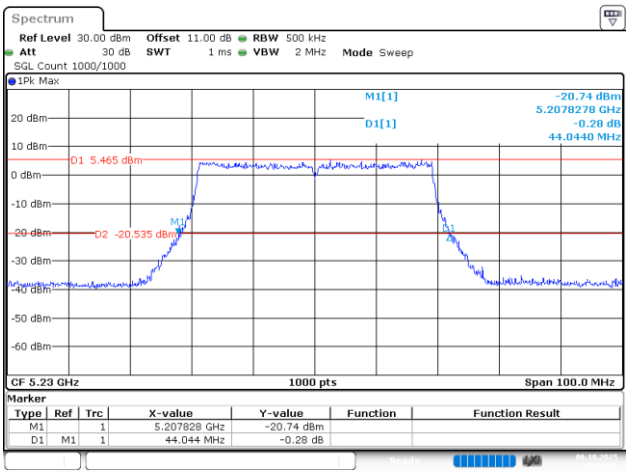
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:41:51

802.11be40_5190MHz_RU_Full_Chain 0



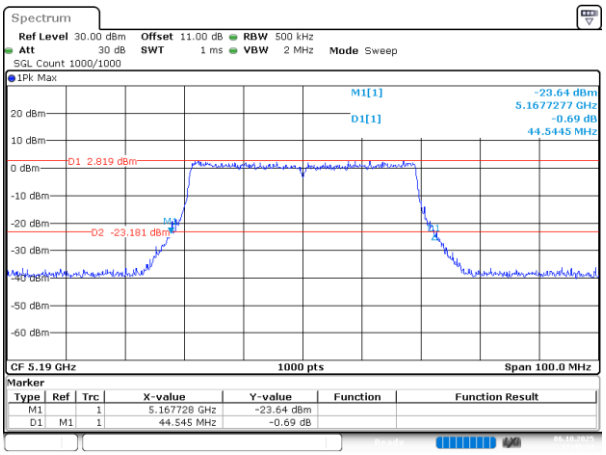
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 15:17:31

802.11be40_5230MHz_RU_Full_Chain 0



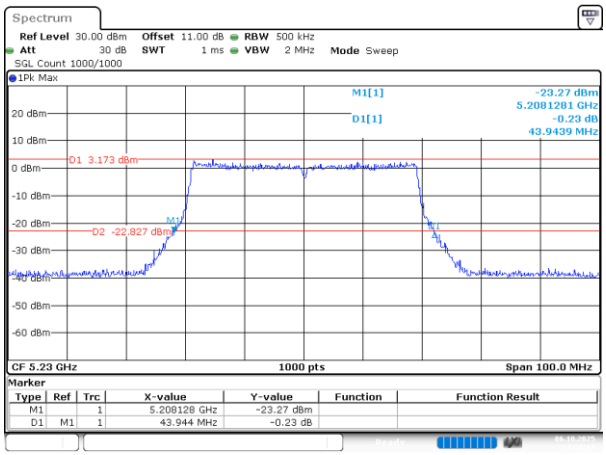
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 15:20:56

802.11be40_5190MHz_RU_Full_Chain 1



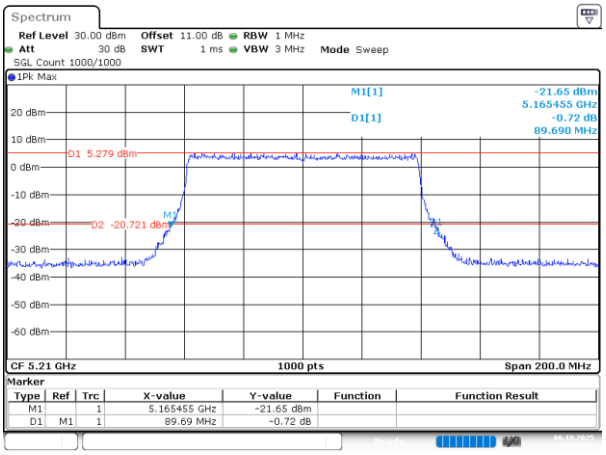
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:45:35

802.11be40_5230MHz_RU_Full_Chain 1



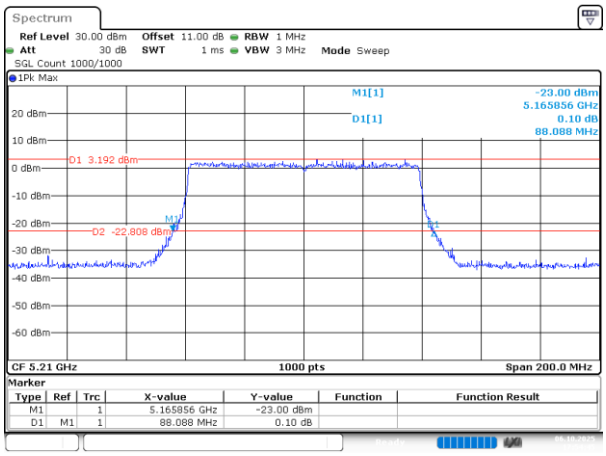
ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:51:14

802.11be80_5210MHz_RU_Full_Chain 0



ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 15:24:39

802.11be80_5210MHz_RU_Full_Chain 1



ProjectNo.:2504X04187E-RF Tester:Len Lin
Date: 6.OCT.2025 17:54:46