

TEST REPORT

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518055
Report Number: 2504Z39370E-RF-00B
FCC ID: ZDEPD8

Test Standard (s)

FCC PART 15.407

Sample Description

Product Name: Wireless IP Camera
Model No.: PD8, PA8, PW8, PS8
Trade Mark: FOSCAM
Date Received: 2025-11-27
Report Date: 2026-01-09

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

Roger Ling

Roger Ling
EMC Engineer

Approved By:

Bob. Liao

Bob.Liao
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked “#” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Z39370E-RF-00B	Original Report	2026-01-09

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Wireless IP Camera
Tested Model	PD8
Multiple Model	PA8, PW8, PS8
Model Difference [#]	All of the models are electrically identical, but the difference among them is model name. Please refer to DOS letter. The applicant provided model "PD8" for testing.
Voltage Range [#]	DC 12V from adapter
Adapter Information [#]	Model: SAW30A-120-2000U Input: 100-240V~ 50/60Hz 0.8A Output: 12.0V ---2000mA
Note: The device comes with a DC cable (0.35m), a LAN cable (0.35 m), a Network cable (1.0m) and an AC/DC adapter which with a DC cable (1.45m) and it is not PoE function.	

Frequency Range	5G Wi-Fi: 5725-5850MHz
Mode	802.11 a/n20/n40/ac20/ac40/ax20/ax40
	5725-5850MHz: 16.24 dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification [#]	Internal Antenna (It is provided by the applicant.)
	5725-5850MHz: 2.51 dBi
Sample Serial Number	For CE&RE Test: 3DHD-6 For RF Conducted Test: 3DHD-7 (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, 15.207, 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
AC Power Lines Conducted Emissions		2.7 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 °C
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/ax20/ax40 mode, the n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.

For 5725-5850MHz, 7 channels are provided to testing:

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

For 802.11a/ac20/ax20, Channel 149, 157 and 165 were tested.

For 802.11ac40/ax40, Channel 151 and 159 were tested.

Test Mode

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

Test Mode : 5g WiFi Transmitting

EUT Exercise Software and Power Level [#]

Exercise Software:		SecureCRT		
For 5725-5850MHz:				
Mode	Data Rate	Power Level		
		Lowest Channel	Middle Channel	Highest Channel
802.11 a	6Mbps	18	18	18
802.11 ac20	MCS0	18	18	18
802.11 ac40	MCS0	18	/	18
802.11 ax20	MCS0	18	18	18
802.11 ax40	MCS0	18	/	18

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[#]: For 802.11ax 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

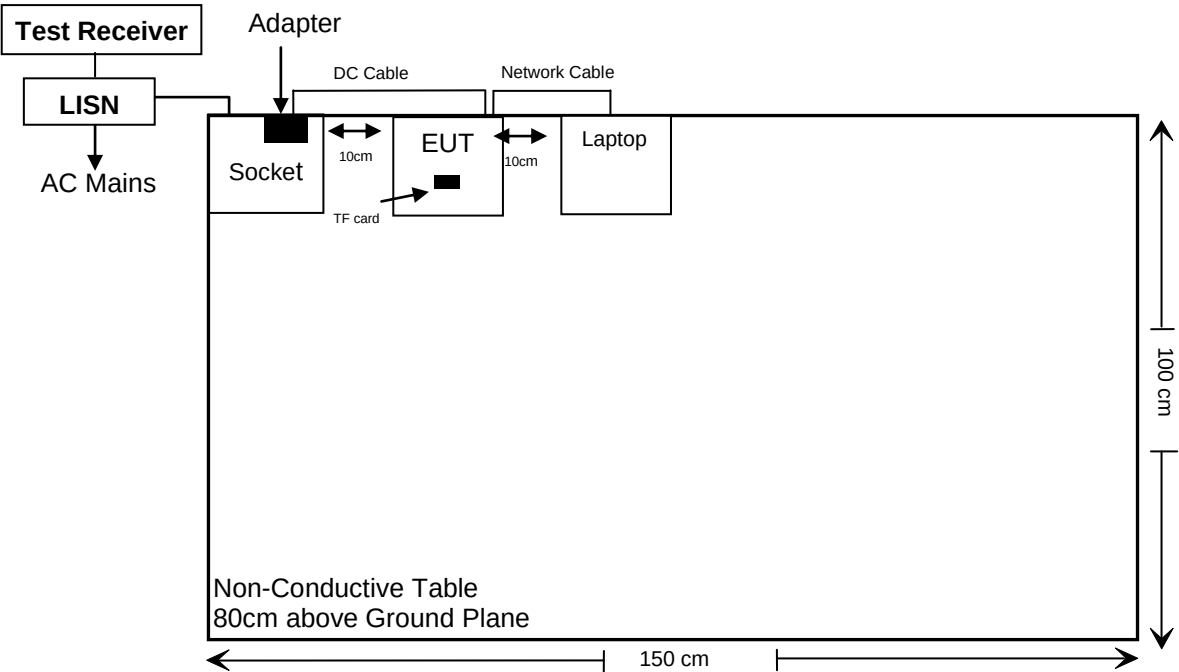
Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T430	PB5TXP5
Sandisk	TF card	32G	Unknown

External I/O Cable

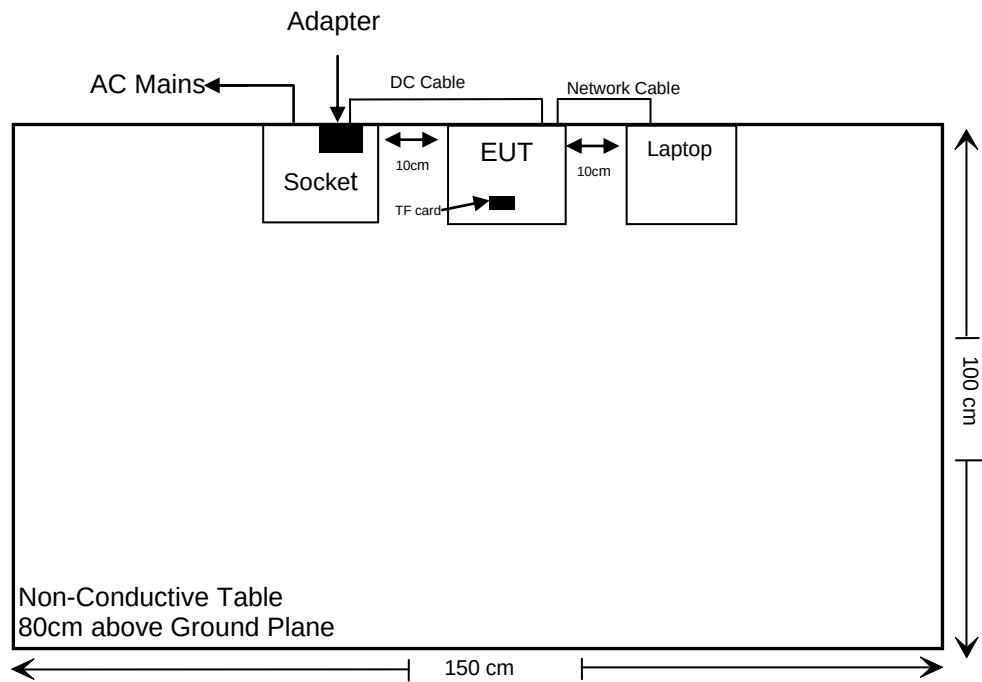
Cable Description	Length (m)	From Port	To
Unshielded Non-Detachable DC Cable	1.45	Adapter	EUT
Unshielded Detachable Network Cable	1.0	EUT	Laptop

Block Diagram of Test Setup

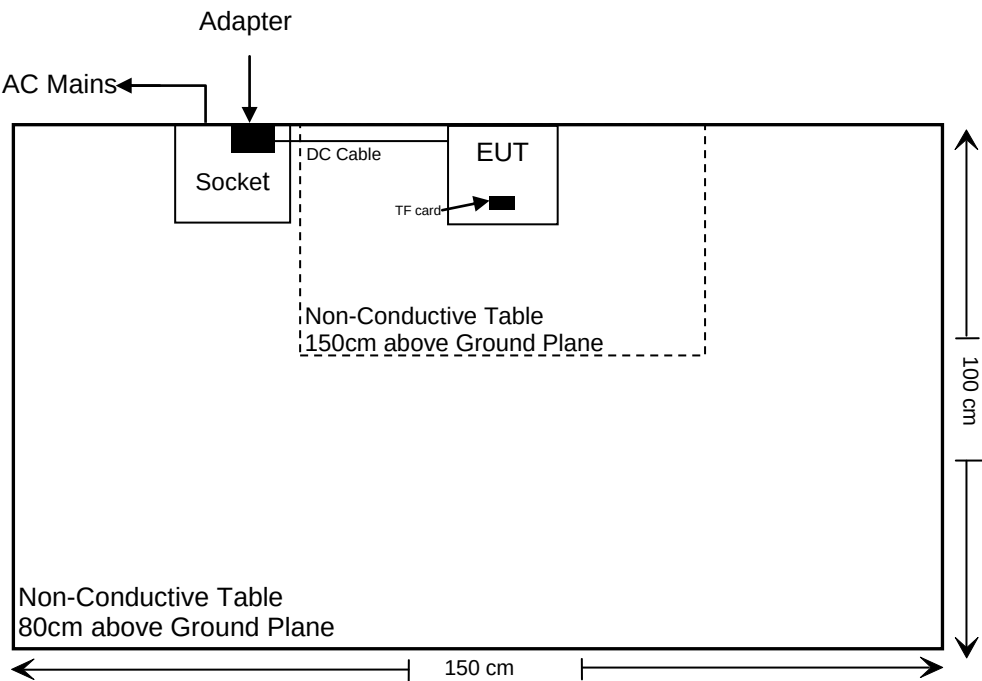
For Conducted Emission:



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	Compliance
§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 EUT not operating within frequency range of 5250-5350MHz&5470-5725MHz.

Not Applicable: The device does not support this function.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2025/09/17	2026/09/16
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2025/09/17	2026/09/16
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2025/09/18	2026/09/17
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100312	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.17	N0350	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
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
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)					

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted test					
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
WEINSCHEL	10dB Attenuator	5324	AU 3842	2025/03/26	2026/03/25
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 one antenna arrangement 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
5725-5850MHz	2.51 dBi

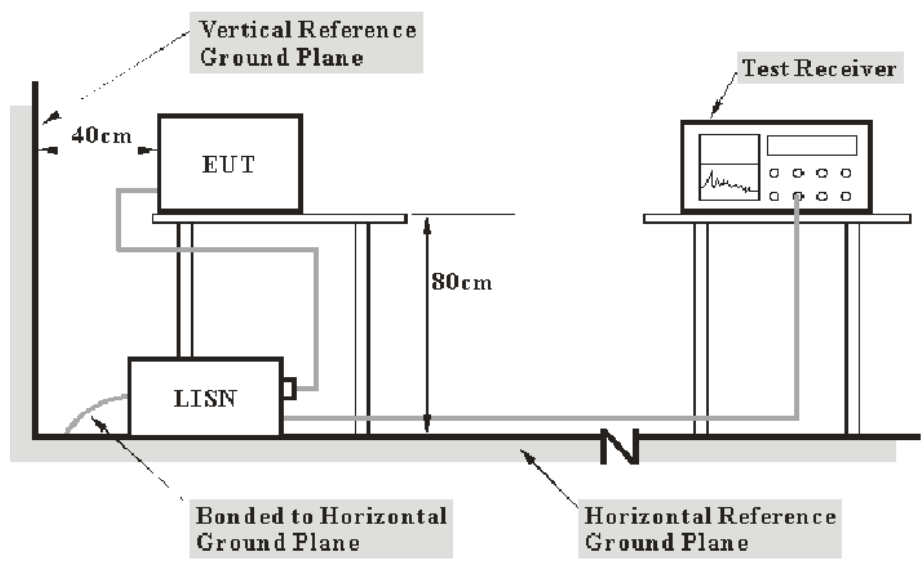
Result: Compliance.

AC CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (9)

EUT Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

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

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

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

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

Test Data

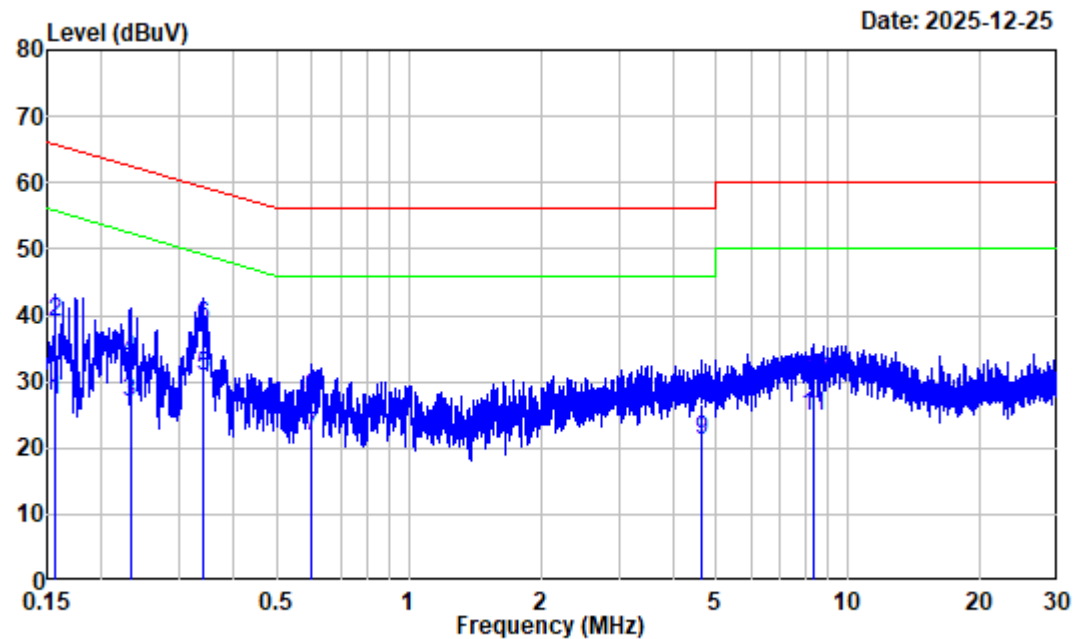
Environmental Conditions

Temperature:	22.5℃
Relative Humidity:	35 %
ATM Pressure:	100.9 kPa
Test Engineer:	Jason Fan
Test Date:	2025-12-25
EUT Operation Mode:	5G WIFI Transmitting

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

Note: the maximum output power mode and channel: 5G WiFi 802.11ax20 Low Channel 5745MHz was tested.

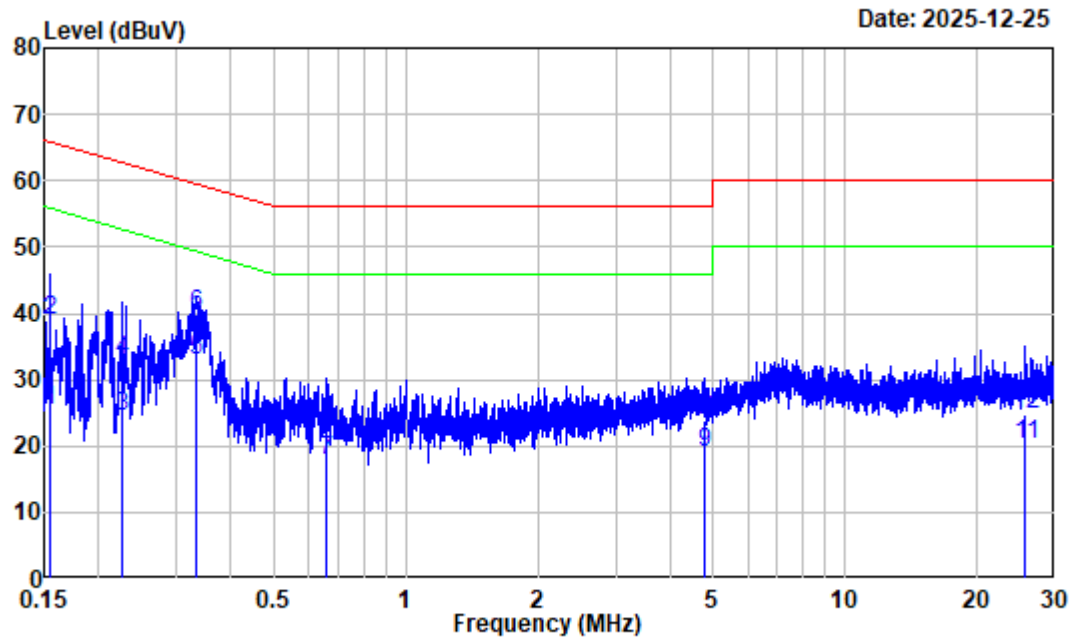
AC 120V/60Hz, Line:



Site : Shielding Room
Condition : Line
Job No. : 2504Z39370E-RF
Test Mode : 5G WIFI Transmitting
Tester : Jason Fan
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	19.94	7.35	27.29	55.66	-28.37	Average
2	0.156	19.94	19.04	38.98	65.66	-26.68	QP
3	0.232	19.96	6.79	26.75	52.38	-25.63	Average
4	0.232	19.96	13.24	33.20	62.38	-29.18	QP
5	0.340	20.03	10.91	30.94	49.21	-18.27	Average
6	0.340	20.03	18.28	38.31	59.21	-20.90	QP
7	0.599	20.16	1.58	21.74	46.00	-24.26	Average
8	0.599	20.16	7.31	27.47	56.00	-28.53	QP
9	4.613	21.62	-0.49	21.13	46.00	-24.87	Average
10	4.613	21.62	4.96	26.58	56.00	-29.42	QP
11	8.334	22.40	2.42	24.82	50.00	-25.18	Average
12	8.334	22.40	7.77	30.17	60.00	-29.83	QP

AC 120V/60Hz, Neutral:



Site : Shielding Room
Condition : Neutral
Job No. : 2504Z39370E-RF
Test Mode : 5G WIFI Transmitting
Tester : Jason Fan
Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.155	19.86	5.44	25.30	55.72	-30.42	Average
2	0.155	19.86	18.98	38.84	65.72	-26.88	QP
3	0.226	19.93	4.50	24.43	52.60	-28.17	Average
4	0.226	19.93	13.05	32.98	62.60	-29.62	QP
5	0.334	19.92	13.07	32.99	49.35	-16.36	Average
6	0.334	19.92	20.02	39.94	59.35	-19.41	QP
7	0.662	20.11	-2.31	17.80	46.00	-28.20	Average
8	0.662	20.11	2.28	22.39	56.00	-33.61	QP
9	4.791	21.63	-2.76	18.87	46.00	-27.13	Average
10	4.791	21.63	2.19	23.82	56.00	-32.18	QP
11	25.710	24.63	-4.38	20.25	50.00	-29.75	Average
12	25.710	24.63	0.17	24.80	60.00	-35.20	QP

UNDESIRABLE EMISSION

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

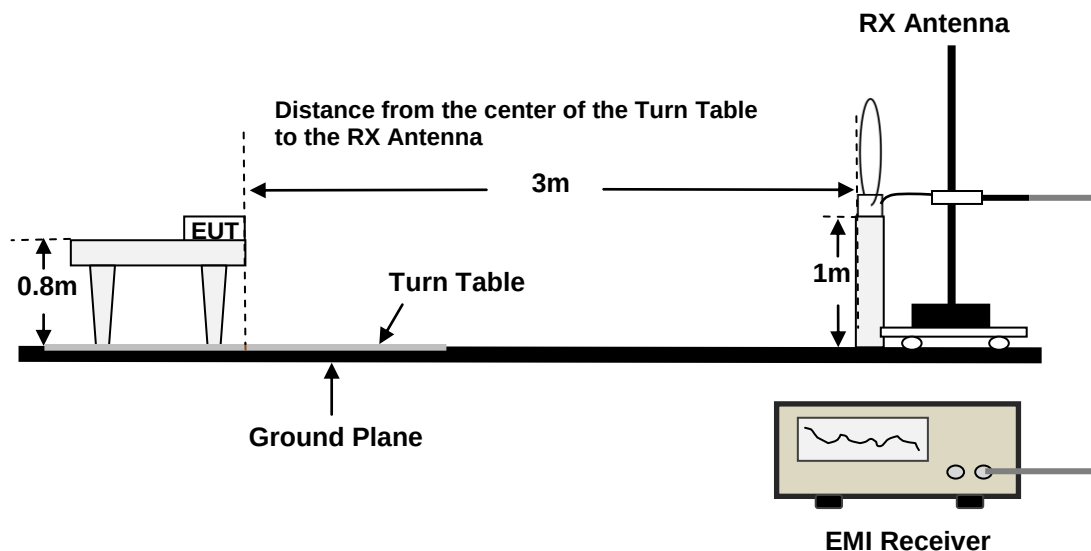
(b) Undesirable emission limits. Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

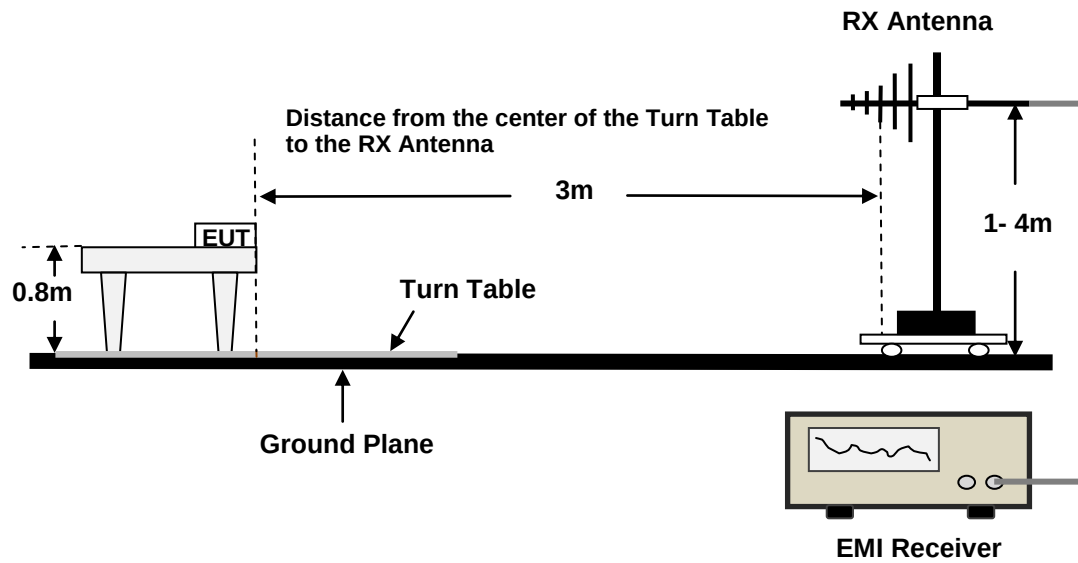
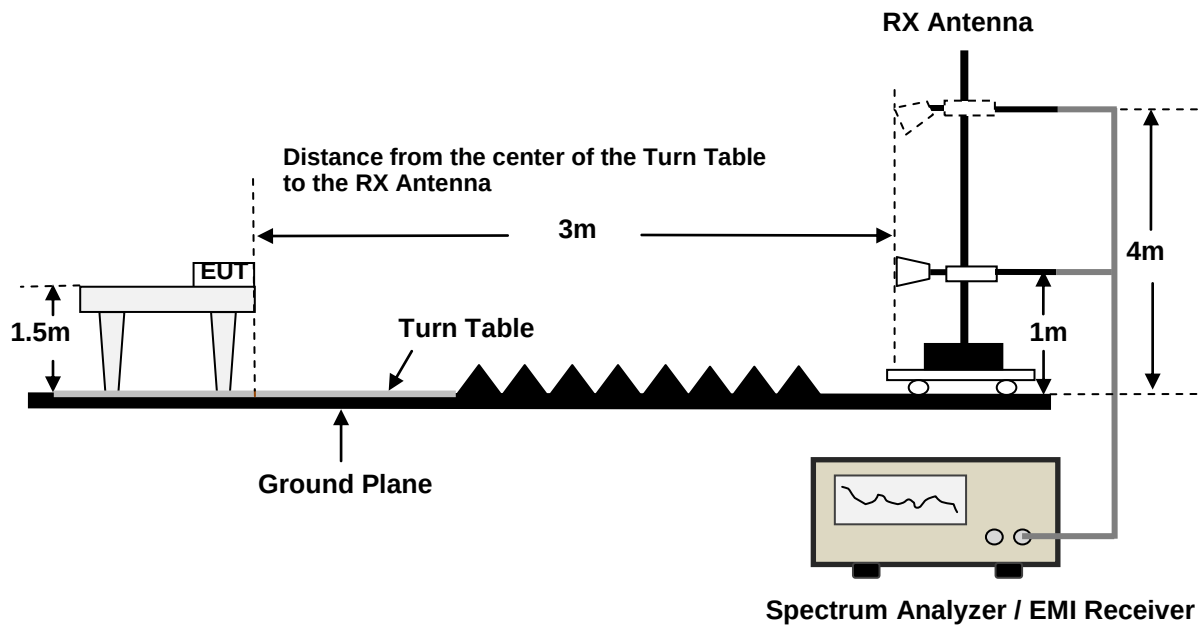
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (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-18GHz testing use the notch 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

$E_{SpecLimit}$	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
$D_{SpecLimit}$	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:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

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

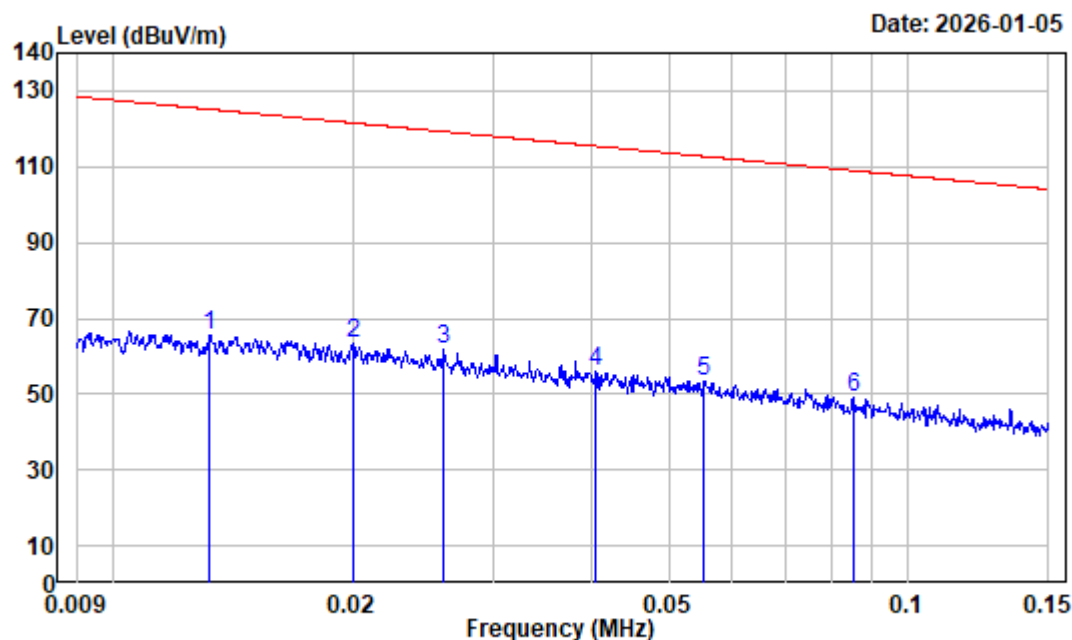
Temperature:	18.8℃
Relative Humidity:	52%
ATM Pressure:	101.8kPa
Test Engineer:	Jayden Luo
Test Date:	2026-1-5
EUT Operation Mode:	5G WIFI Transmitting

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

Note 1: The Loop Antenna were tested in parallel, perpendicular, and ground-parallel. The worst orientation was parallel and the data was recorded in report.

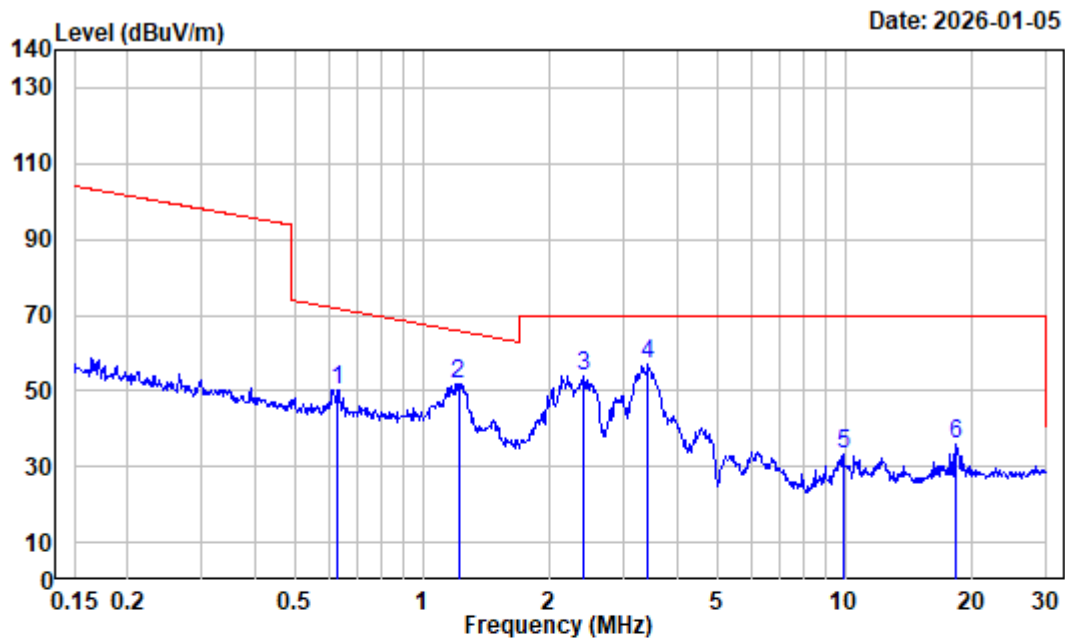
Note 2: the maximum output power mode and channel: 5G WiFi 802.11ax20 Low Channel 5745MHz was tested.

9kHz~30MHz:



Site : chamber
Condition : 3m
Job No. : 2504Z39370E-RF
Polarization : Parallel Tester: Jayden Luo
Test Mode : 5G WIFI Transmitting
Receiver Setting: RBW:300Hz VBW:1kHz

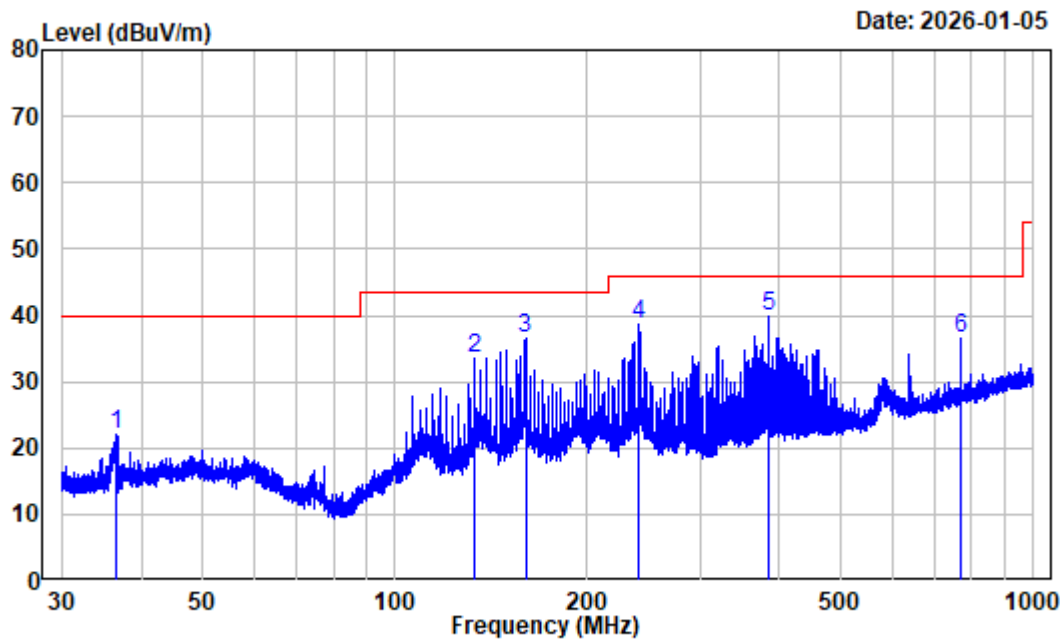
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.013	34.39	31.21	65.60	125.17	-59.57	Peak
2	0.020	31.36	32.01	63.37	121.56	-58.19	Peak
3	0.026	28.73	33.16	61.89	119.31	-57.42	Peak
4	0.041	24.77	31.21	55.98	115.45	-59.47	Peak
5	0.055	22.04	31.23	53.27	112.73	-59.46	Peak
6	0.085	17.98	31.00	48.98	108.99	-60.01	Peak



Site : chamber
Condition : 3m
Job No. : 2504Z39370E-RF
Polarization : Parallel Tester: Jayden Luo
Test Mode : 5G WIFI Transmitting
Receiver Setting: RBW:10kHz VBW:30kHz

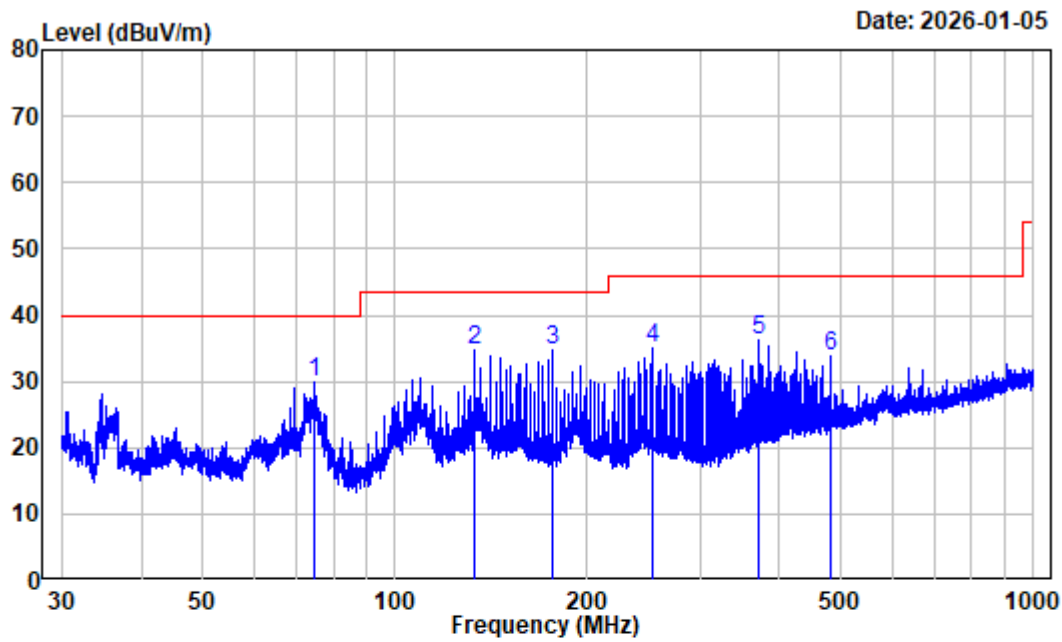
	Freq	Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.627	1.78	48.40	50.18	71.61	-21.43	Peak
2	1.216	-2.60	54.36	51.76	65.74	-13.98	Peak
3	2.396	-5.56	59.45	53.89	69.54	-15.65	Peak
4	3.417	-6.03	63.24	57.21	69.54	-12.33	Peak
5	9.913	-5.35	38.48	33.13	69.54	-36.41	Peak
6	18.328	-3.73	39.62	35.89	69.54	-33.65	Peak

30MHz~1GHz:



Site : chamber
Condition : 3m HORIZONTAL
Job No. : 2504Z39370E-RF Tester: Jayden Luo
Test Mode : 5G WIFI Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

Freq Factor		Read Level	Limit Level	Over Limit	Remark	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	36.637	-11.33	33.27	21.94	40.00	-18.06 Peak
2	133.326	-14.55	48.15	33.60	43.50	-9.90 Peak
3	159.995	-14.01	50.53	36.52	43.50	-6.98 Peak
4	239.987	-10.06	48.76	38.70	46.00	-7.30 Peak
5	384.100	-6.53	46.24	39.71	46.00	-6.29 Peak
6	768.075	0.25	36.30	36.55	46.00	-9.45 Peak



Site : chamber
Condition : 3m VERTICAL
Job No. : 2504Z39370E-RF Tester: Jayden Luo
Test Mode : 5G WIFI Transmitting
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	74.657	-16.02	45.98	29.96	40.00	-10.04 Peak
2	133.326	-14.55	49.21	34.66	43.50	-8.84 Peak
3	176.037	-13.14	47.99	34.85	43.50	-8.65 Peak
4	253.392	-10.12	45.19	35.07	46.00	-10.93 Peak
5	370.702	-6.90	43.12	36.22	46.00	-9.78 Peak
6	480.107	-4.39	38.08	33.69	46.00	-12.31 Peak

1GHz-40GHz

Environmental Conditions

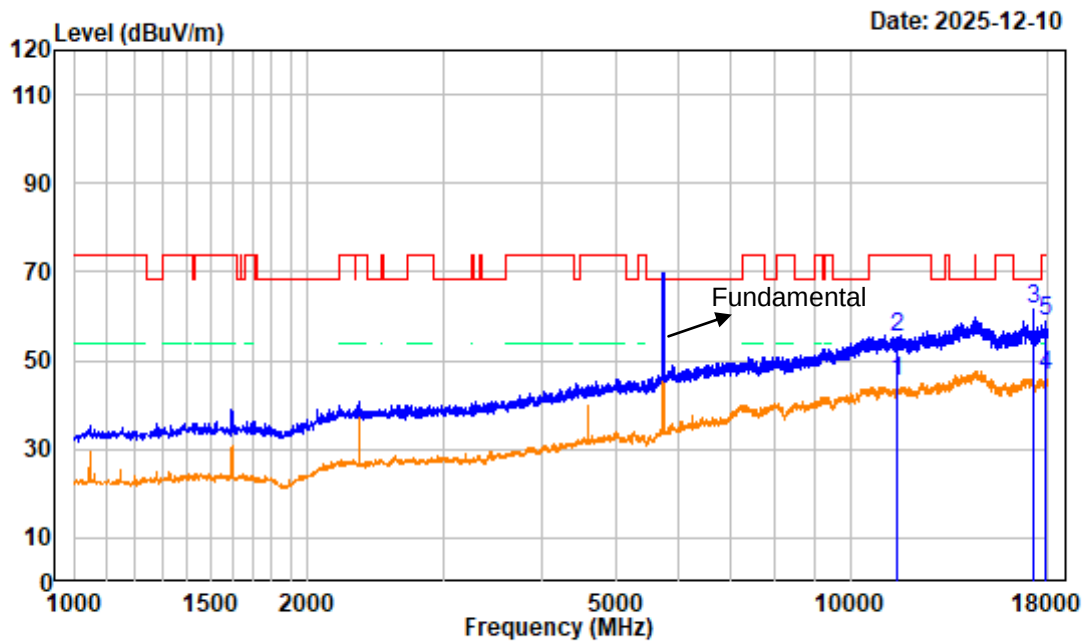
Temperature:	22.5-23.1℃
Relative Humidity:	46-47 %
ATM Pressure:	100.9 kPa
Test Engineer:	Angel Chen
Test Date:	2025.12.10-2025.12.11
EUT Operation Mode:	Transmitting

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

Note 1: For 1GHz-18GHz, the fundamental with band reject filter.

Note 2: For 18GHz-40GHz, the pre-scan maximum output power mode and channel: 5G WiFi 802.11ax20 Low Channel 5745MHz was tested.

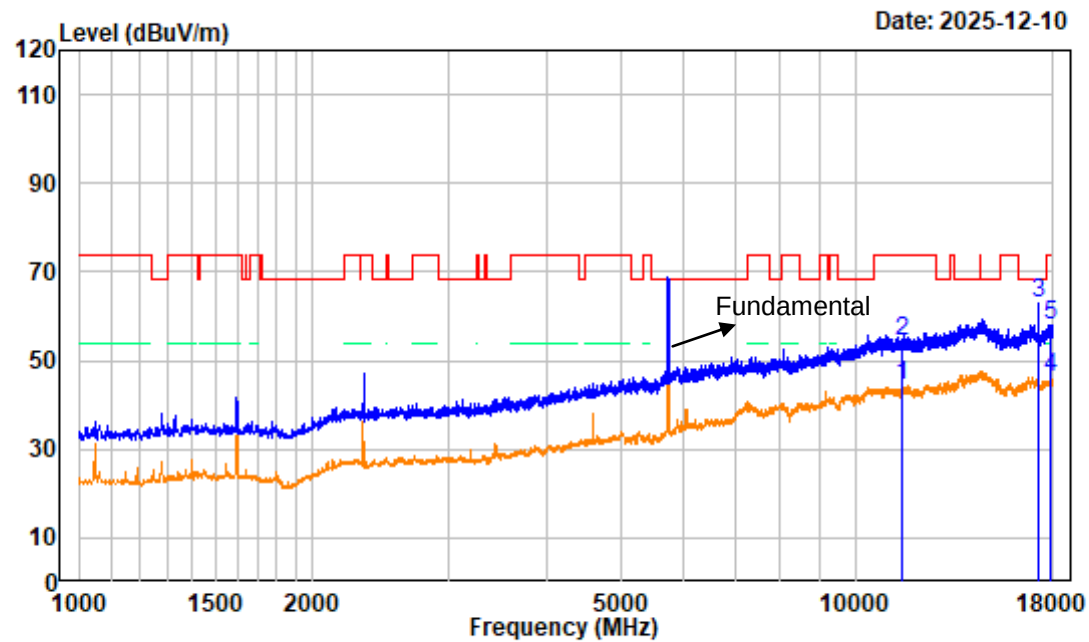
5G WIFI 802.11a Low Channel 1GHz-18GHz_HORTZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11a Low Channel 5745MHz 1GHz-18GHz
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 11490.000	6.24	38.93	45.17	54.00	-8.83	Average
2 11490.000	6.24	48.88	55.12	74.00	-18.88	peak
3 17235.000	6.82	54.60	61.42	68.20	-6.78	peak
4 17893.750	8.27	38.25	46.52	54.00	-7.48	average
5 17893.750	8.27	50.40	58.67	74.00	-15.33	peak

5G WIFI 802.11a Low Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

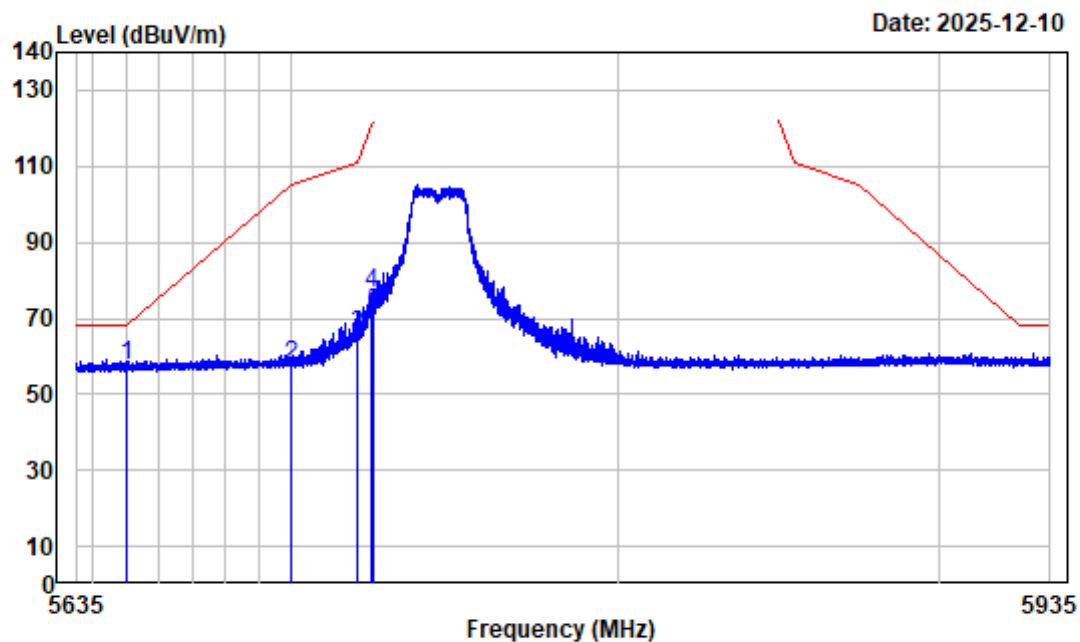
Tester:Angel Chen

Note : 5G WIFI 802.11a Low Channel 5745MHz 1GHz-18GHz

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 11490.000	6.24	38.02	44.26	54.00	-9.74	Average
2 11490.000	6.24	48.20	54.44	74.00	-19.56	peak
3 17235.000	6.82	56.10	62.92	68.20	-5.28	peak
4 17900.130	8.26	37.82	46.08	54.00	-7.92	average
5 17900.130	8.26	49.84	58.10	74.00	-15.90	peak

5G WIFI 802.11a Low Channel Bandedge_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

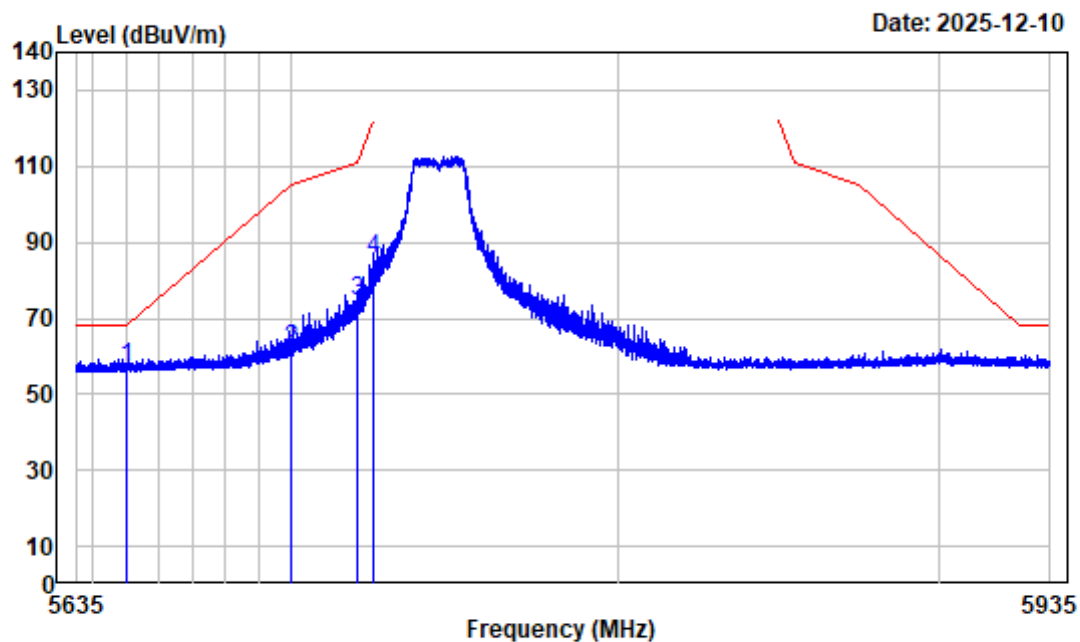
Tester: Angel Chen

Note : 5G WIFI 802.11a Low Channel 5745MHz 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	62.31	57.59	68.20	-10.61	peak
2	5700.000	-4.35	62.10	57.75	105.20	-47.45	peak
3	5720.000	-4.43	69.84	65.41	110.80	-45.39	peak
4	5724.438	-4.45	81.04	76.59	120.92	-44.33	Peak
5	5725.000	-4.45	75.66	71.21	122.20	-50.99	peak

5G WIFI 802.11a Low Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

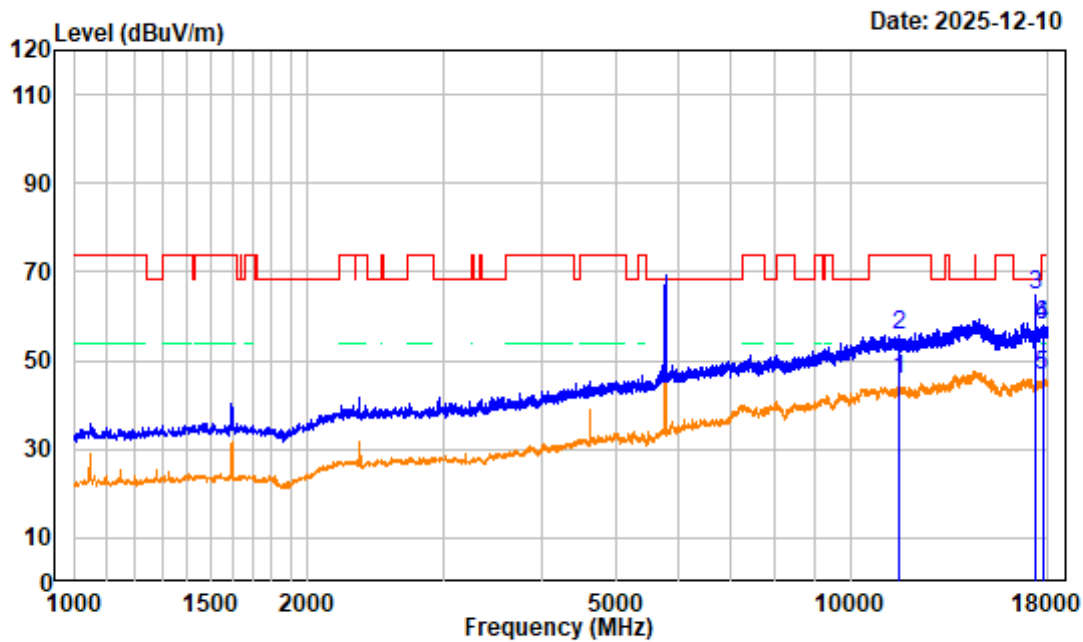
Tester:Angel Chen

Note : 5G WIFI 802.11a Low Channel 5745MHz 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	61.94	57.22	68.20	-10.98	peak
2	5700.000	-4.35	65.90	61.55	105.20	-43.65	peak
3	5720.000	-4.43	78.99	74.56	110.80	-36.24	peak
4	5725.000	-4.45	90.03	85.58	122.20	-36.62	peak

5G WIFI 802.11a Middle Channel 1GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

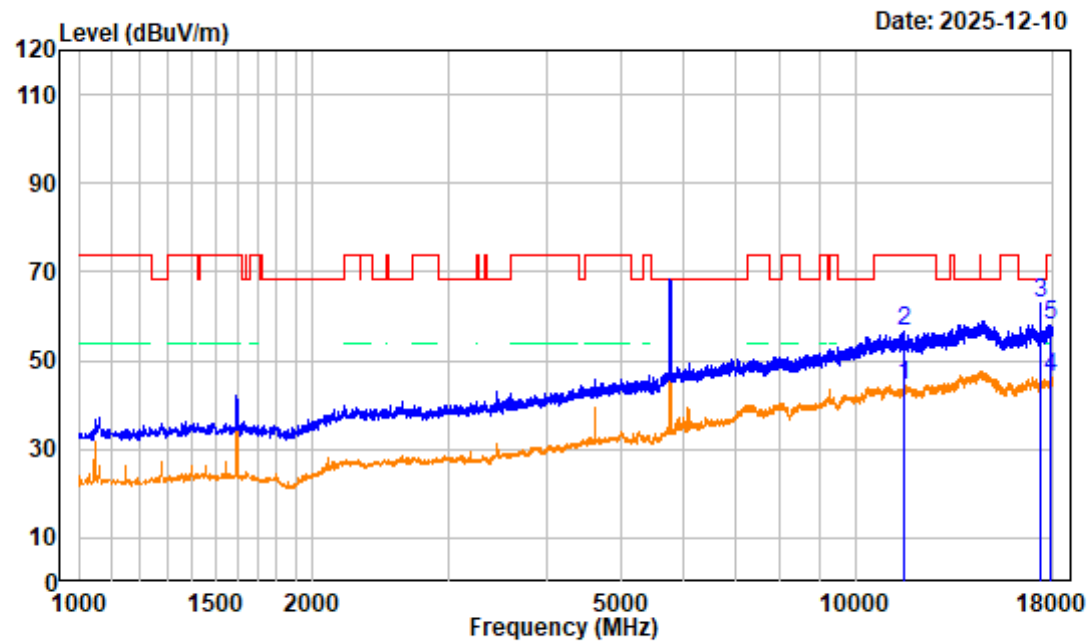
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11a Middle Channel 5785MHz 1GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

Freq Factor		Read Level	Level	Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 11570.000	6.02	39.67	45.69	54.00	-8.31	Average
2 11570.000	6.02	49.47	55.49	74.00	-18.51	peak
3 17355.000	6.60	58.08	64.68	68.20	-3.52	Peak
4 17704.630	7.66	50.52	58.18	54.00	4.18	average
5 17704.630	7.66	38.79	46.45	54.00	-7.55	average
6 17704.630	7.66	50.52	58.18	74.00	-15.82	peak

5G WIFI 802.11a Middle Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

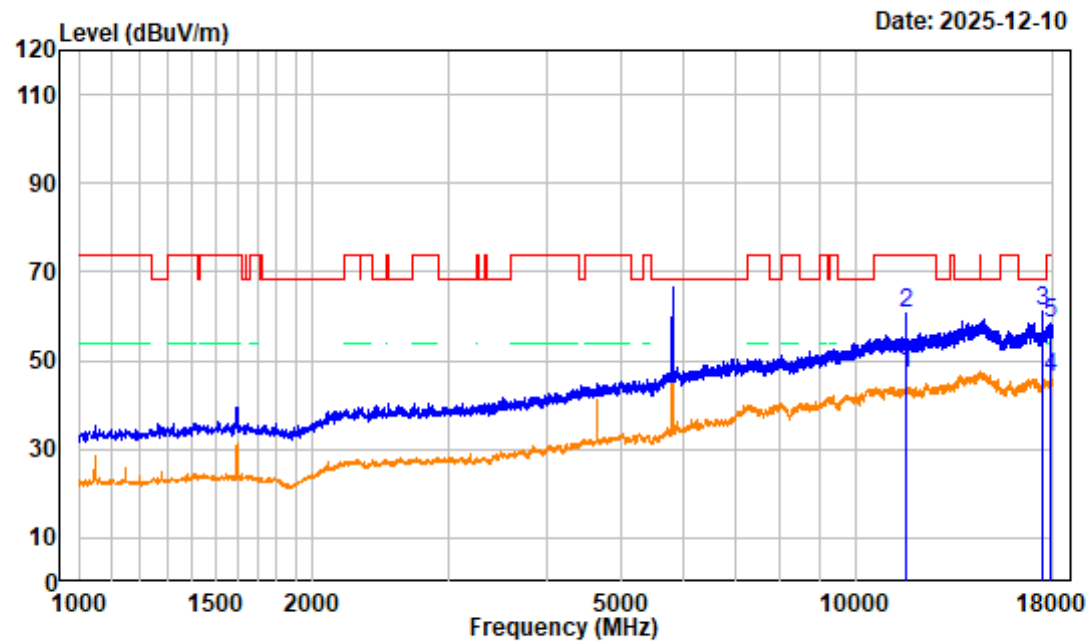
Tester:Angel Chen

Note : 5G WIFI 802.11a Middle Channel 5785MHz 1GHz-18GHz

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 11570.000	6.02	38.56	44.58	54.00	-9.42	Average
2 11570.000	6.02	50.72	56.74	74.00	-17.26	peak
3 17355.000	6.60	56.28	62.88	68.20	-5.32	peak
4 17861.880	8.31	38.08	46.39	54.00	-7.61	Average
5 17861.880	8.31	49.70	58.01	74.00	-15.99	peak

5G WIFI 802.11a High Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

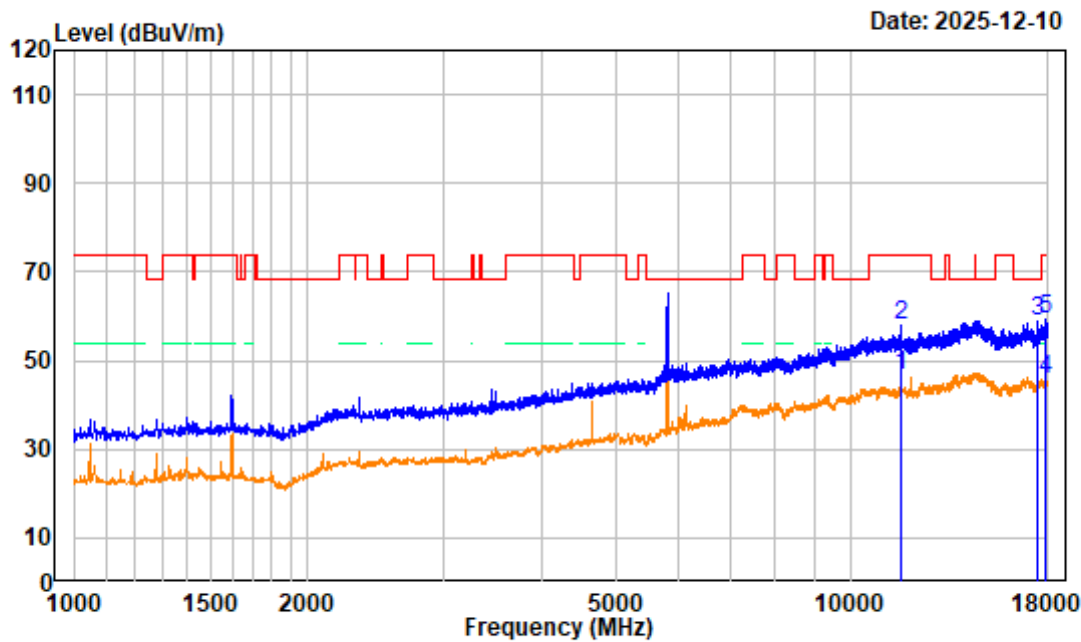
Test Mode : Transmitting Tester:Angel Chen

Note : 5G WIFI 802.11a High Channel 5825MHz 1GHz-18GHz

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	41.84	47.20	54.00	-6.80	Average
2 11650.000	5.36	55.19	60.55	74.00	-13.45	peak
3 17475.000	7.21	53.93	61.14	68.20	-7.06	peak
4 17898.000	8.26	37.92	46.18	54.00	-7.82	average
5 17898.000	8.26	50.32	58.58	74.00	-15.42	peak

5G WIFI 802.11a High Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

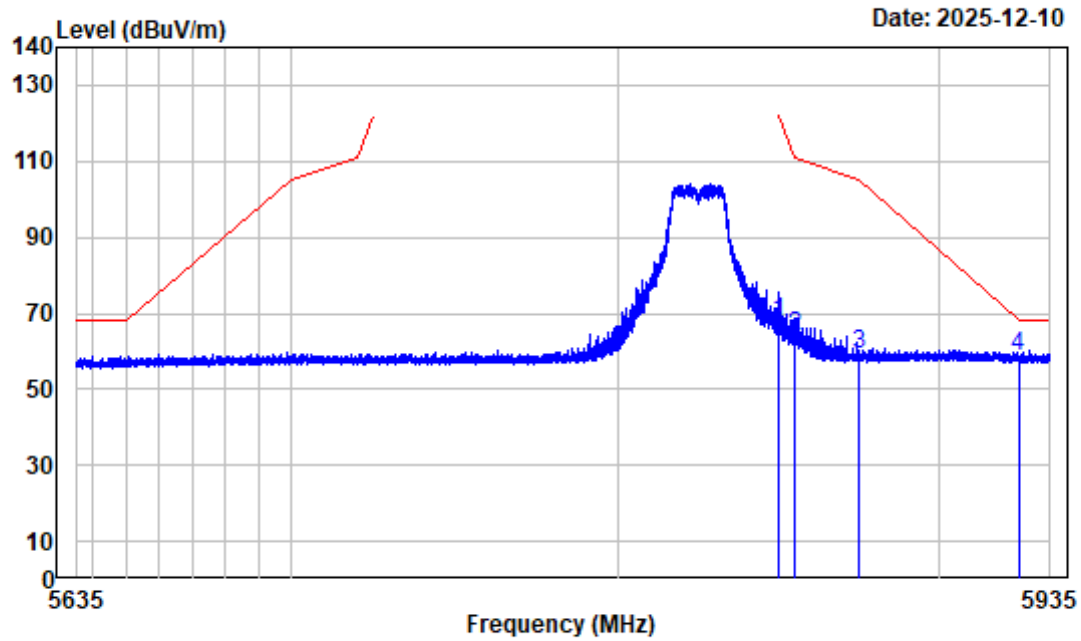
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11a High Channel 5825MHz 1GHz-18GHz

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	41.21	46.57	54.00	-7.43	Average
2 11650.000	5.36	52.65	58.01	74.00	-15.99	peak
3 17475.000	7.21	51.47	58.68	68.20	-9.52	peak
4 17864.000	8.31	37.61	45.92	54.00	-8.08	average
5 17864.000	8.31	50.85	59.16	74.00	-14.84	peak

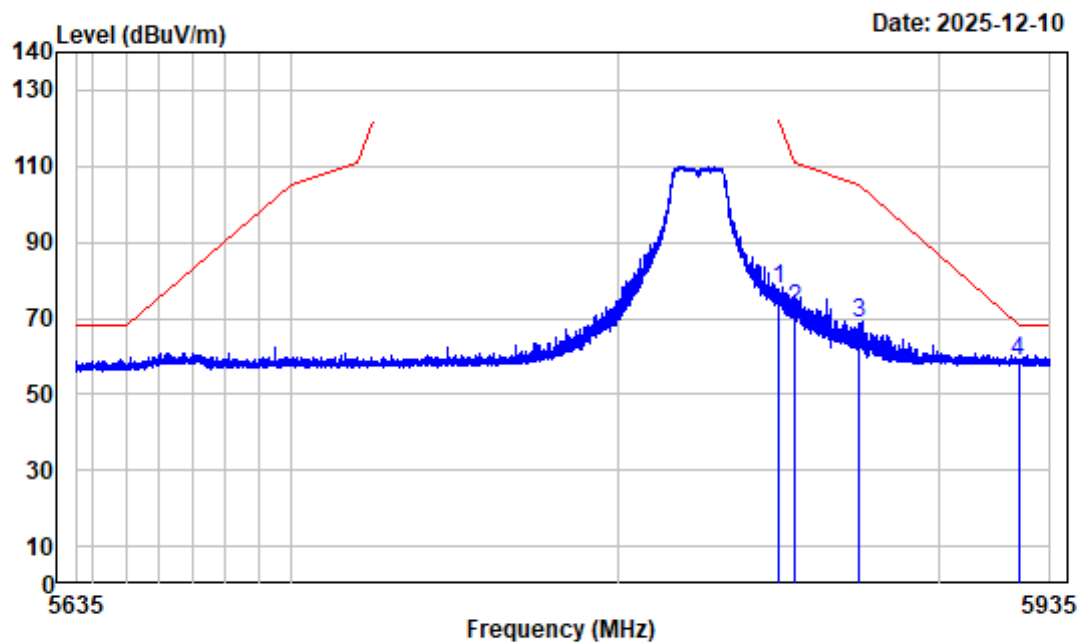
5G WIFI 802.11a High Channel Bandedge_HORIZONTAL



Site : chamber
 Condition : 3m HORIZONTAL
 Project No.: 2504Z39370E-RF
 Test Mode : Transmitting Tester:Angel Chen
 Note : 5G WIFI 802.11a High Channel 5825MHz 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	72.40	67.86	122.20	-54.34	peak
2	5855.000	-4.48	68.54	64.06	110.80	-46.74	peak
3	5875.000	-4.20	63.31	59.11	105.20	-46.09	peak
4	5925.000	-4.27	62.72	58.45	68.20	-9.75	peak

5G WIFI 802.11a High Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

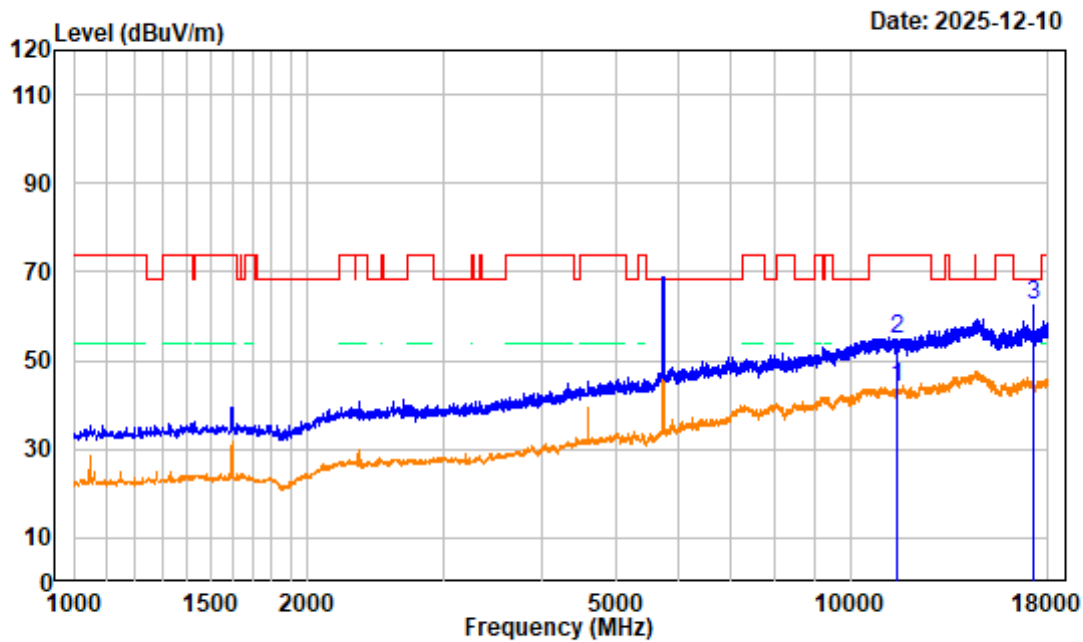
Tester: Angel Chen

Note : 5G WIFI 802.11a High Channel 5825MHz 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	82.00	77.46	122.20	-44.74	peak
2	5855.000	-4.48	77.02	72.54	110.80	-38.26	peak
3	5875.000	-4.20	72.64	68.44	105.20	-36.76	peak
4	5925.000	-4.27	62.75	58.48	68.20	-9.72	peak

5G WIFI 802.11ac20 Low Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

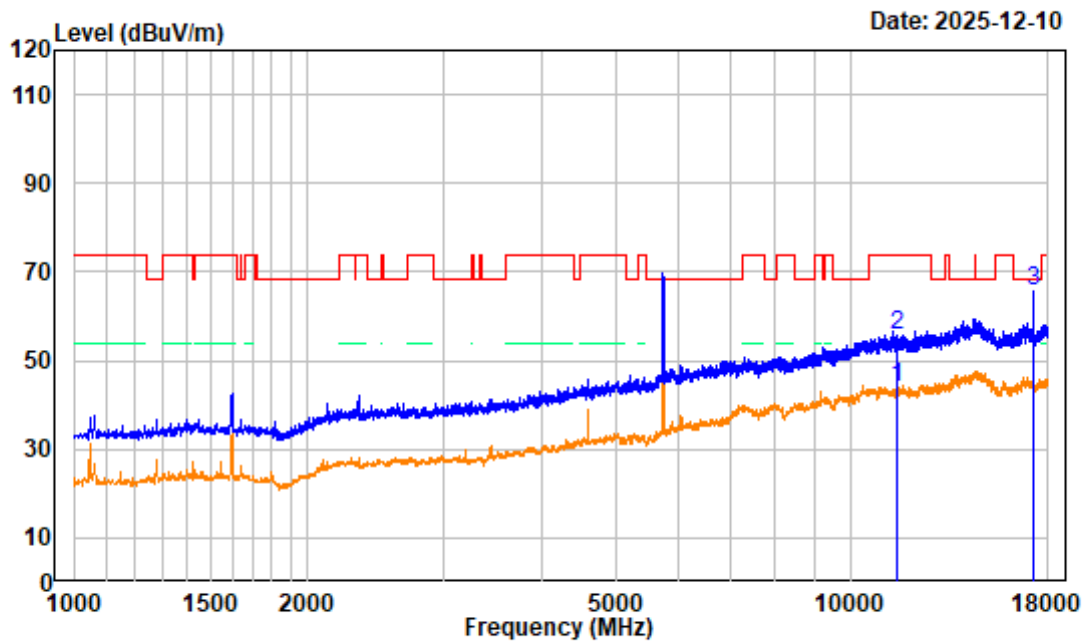
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ac20 Low Channel 5745MHz 1GHz-18GHz

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 11490.000	6.24	37.66	43.90	54.00	-10.10	Average
2 11490.000	6.24	48.60	54.84	74.00	-19.16	peak
3 17235.000	6.82	55.51	62.33	68.20	-5.87	peak

5G WIFI 802.11ac20 Low Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

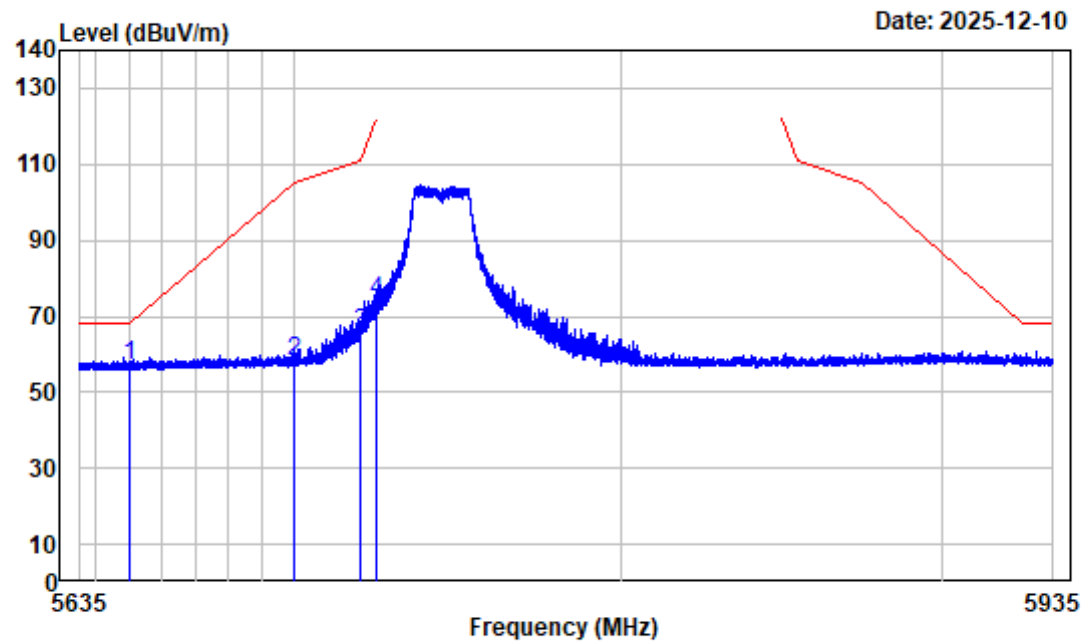
Tester:Angel Chen

Note : 5G WIFI 802.11ac20 Low Channel 5745MHz 1GHz-18GHz

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 11490.000	6.24	37.89	44.13	54.00	-9.87	Average
2 11490.000	6.24	49.33	55.57	74.00	-18.43	peak
3 17235.000	6.82	58.87	65.69	68.20	-2.51	peak

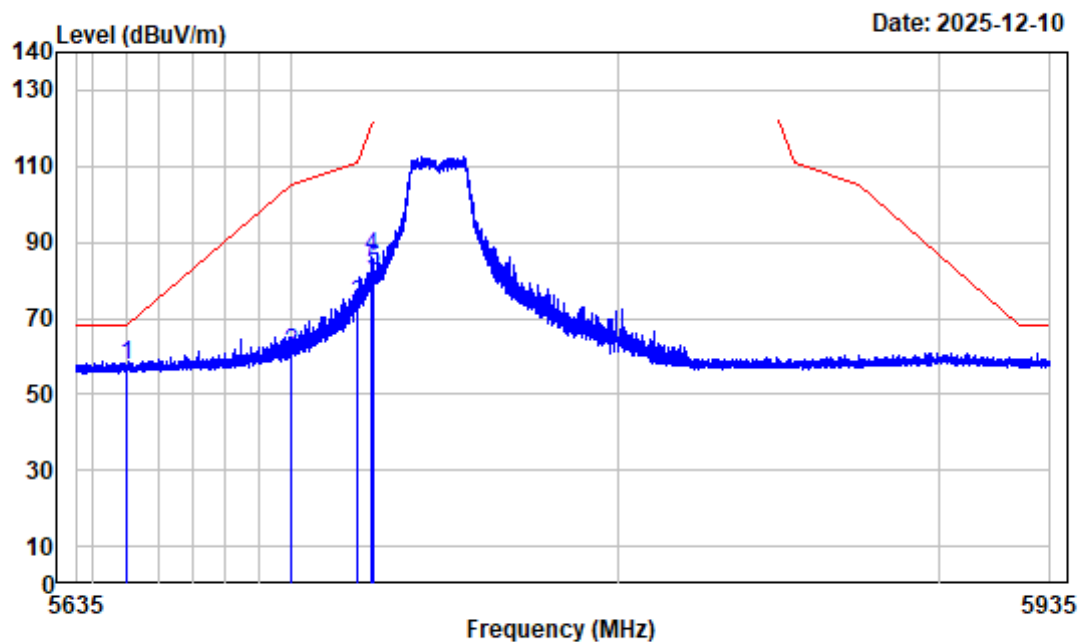
5G WIFI 802.11ac20 Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ac20 Low Channel 5745MHz 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	61.77	57.05	68.20	-11.15	peak
2 5700.000	-4.35	62.37	58.02	105.20	-47.18	peak
3 5720.000	-4.43	70.18	65.75	110.80	-45.05	peak
4 5725.000	-4.45	78.64	74.19	122.20	-48.01	peak

5G WIFI 802.11ac20 Low Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

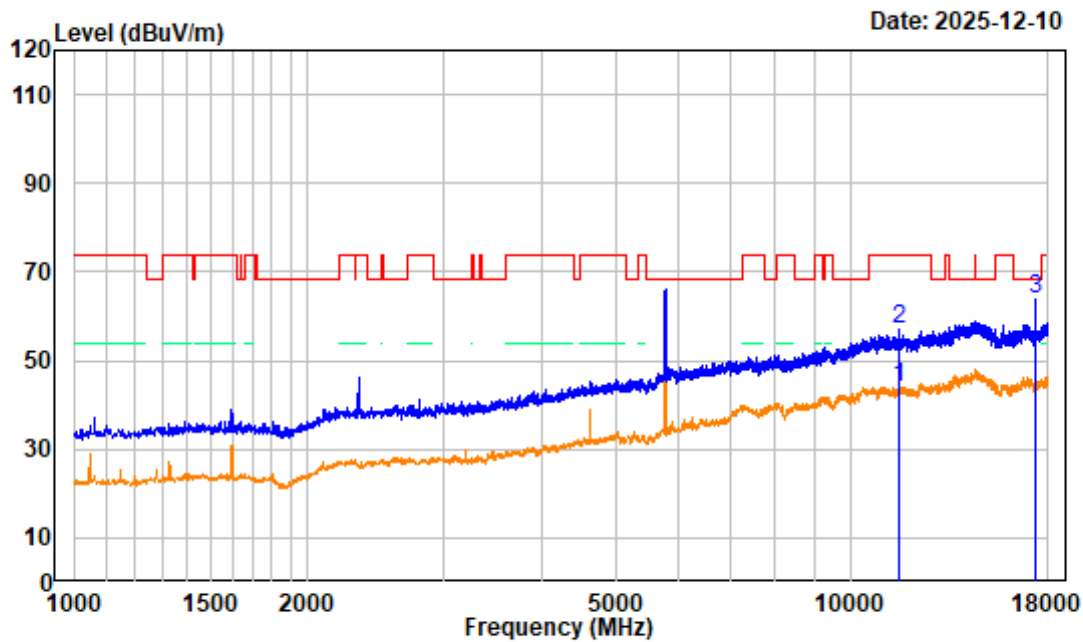
Tester: Angel Chen

Note : 5G WIFI 802.11ac20 Low Channel 5745MHz 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	62.34	57.62	68.20	-10.58	peak
2	5700.000	-4.35	65.26	60.91	105.20	-44.29	peak
3	5720.000	-4.43	77.83	73.40	110.80	-37.40	peak
4	5724.400	-4.45	90.49	86.04	120.83	-34.79	Peak
5	5725.000	-4.45	86.96	82.51	122.20	-39.69	peak

5G WIFI 802.11ac20 Middle Channel 1GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

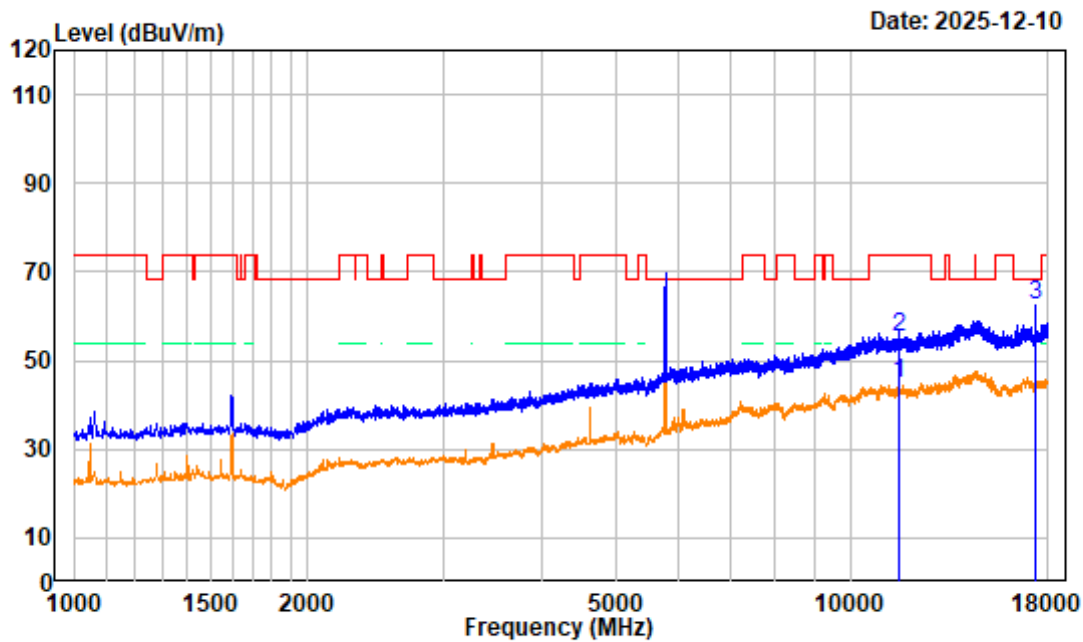
Tester:Angel Chen

Note : 5G WIFI 802.11ac20 Middle Channel 5785MHz 1GHz-18GHz

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 11570.000	6.02	37.86	43.88	54.00	-10.12	Average
2 11570.000	6.02	50.83	56.85	74.00	-17.15	peak
3 17355.000	6.60	57.33	63.93	68.20	-4.27	peak

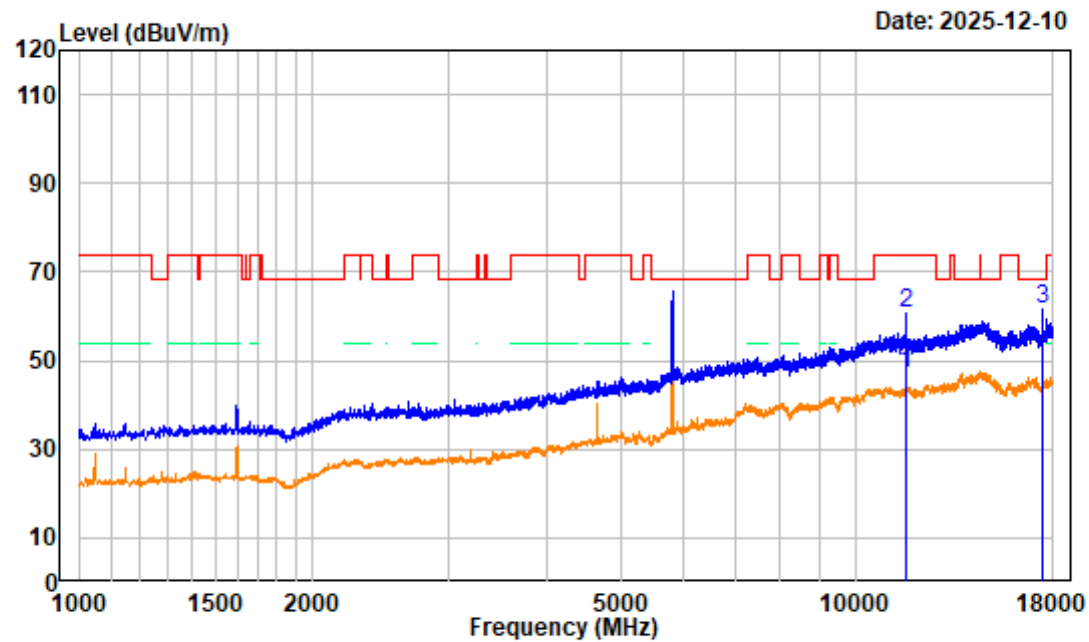
5G WIFI 802.11ac20 Middle Channel 1GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ac20 Middle Channel 5785MHz 1GHz-18GHz
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 11570.000	6.02	38.99	45.01	54.00	-8.99	Average
2 11570.000	6.02	49.18	55.20	74.00	-18.80	peak
3 17355.000	6.60	55.83	62.43	68.20	-5.77	peak

5G WIFI 802.11ac20 High Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

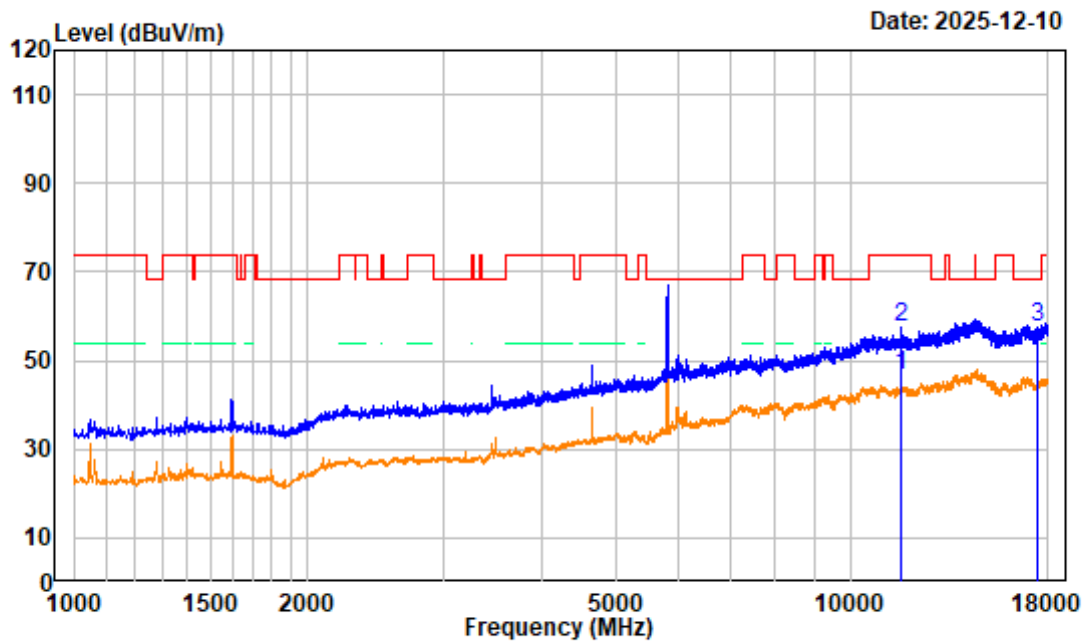
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ac20 High Channel 5825MHz 1GHz-18GHz

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	41.89	47.25	54.00	-6.75	Average
2 11650.000	5.36	55.14	60.50	74.00	-13.50	peak
3 17475.000	7.21	54.20	61.41	68.20	-6.79	peak

5G WIFI 802.11ac20 High Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

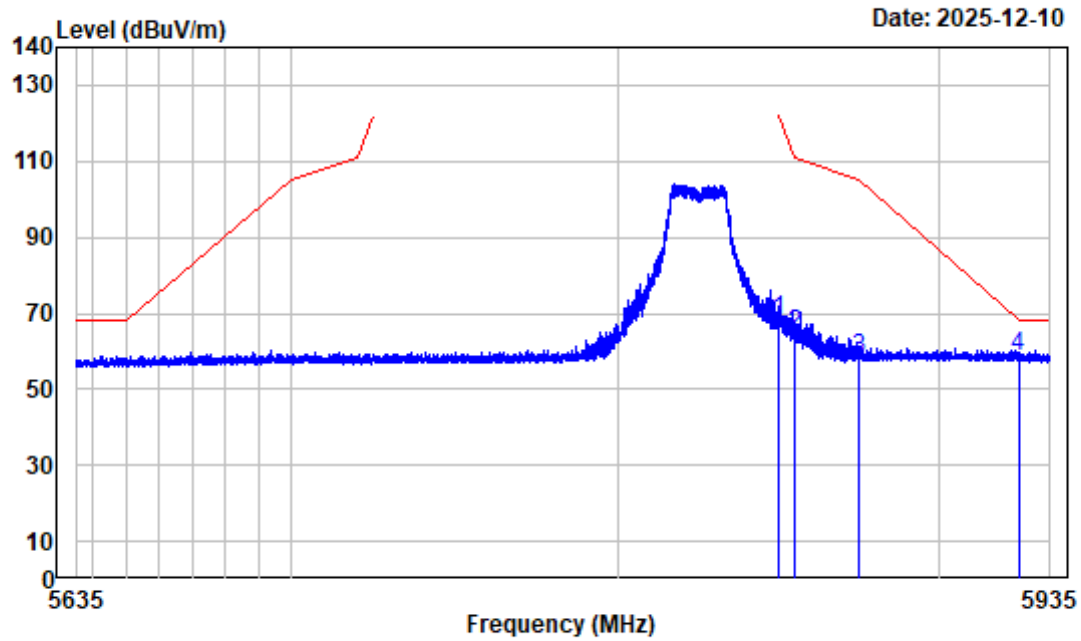
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ac20 High Channel 5825MHz 1GHz-18GHz

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	41.16	46.52	54.00	-7.48	Average
2 11650.000	5.36	52.00	57.36	74.00	-16.64	peak
3 17475.000	7.21	50.31	57.52	68.20	-10.68	peak

5G WIFI 802.11ac20 High Channel Bandedge_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

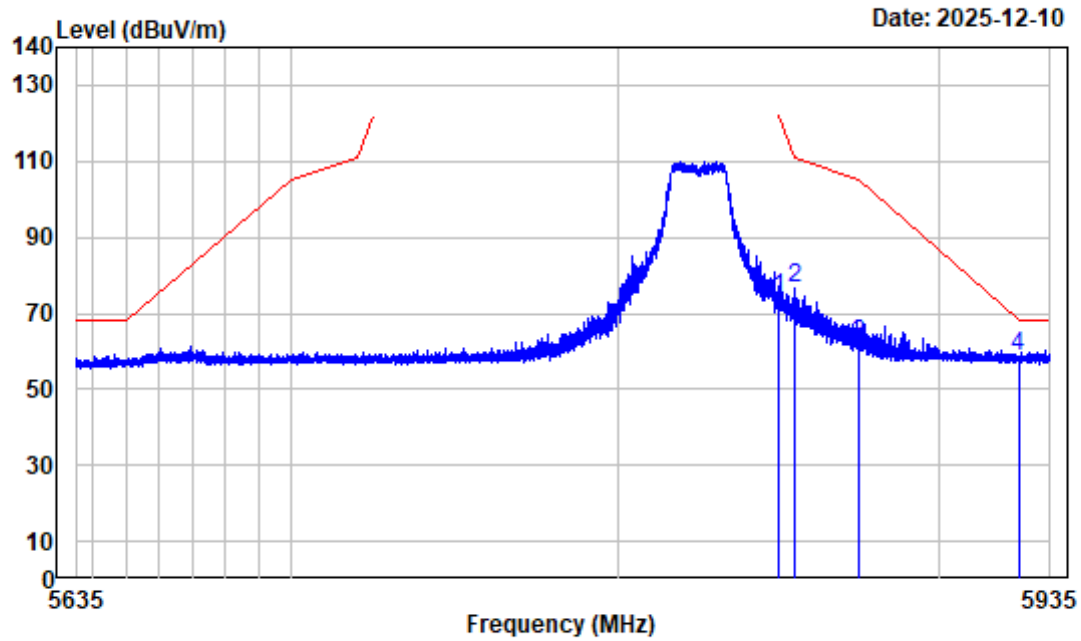
Tester: Angel Chen

Note : 5G WIFI 802.11ac20 High Channel 5825MHz 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	72.43	67.89	122.20	-54.31	peak
2	5855.000	-4.48	69.14	64.66	110.80	-46.14	peak
3	5875.000	-4.20	62.12	57.92	105.20	-47.28	peak
4	5925.000	-4.27	63.17	58.90	68.20	-9.30	peak

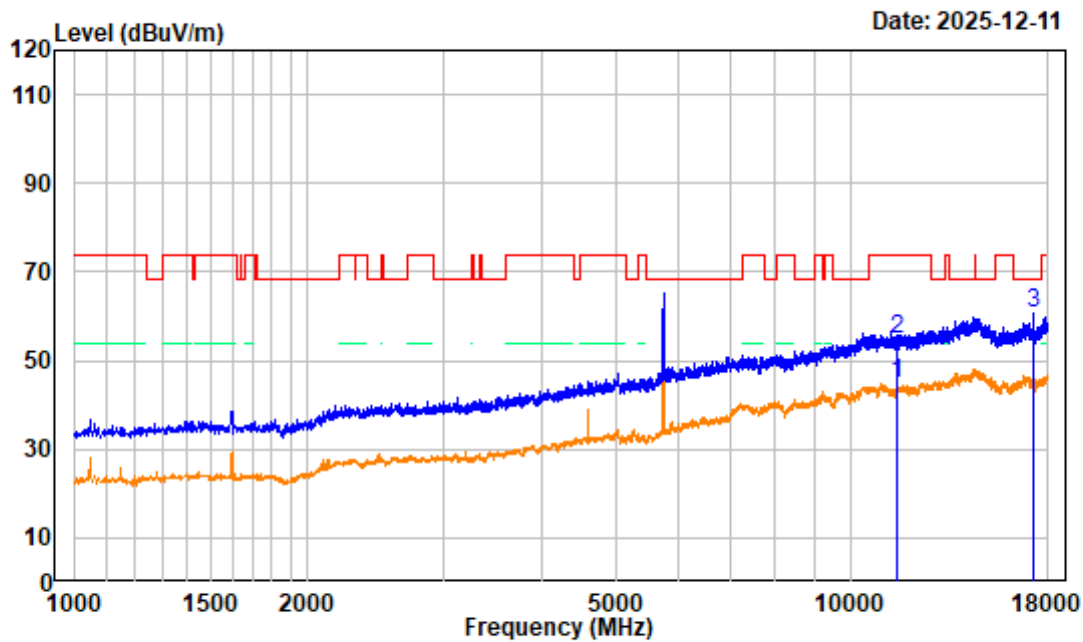
5G WIFI 802.11ac20 High Channel Bandedge_VERTICAL



Site : chamber
 Condition : 3m VERTICAL
 Project No.: 2504Z39370E-RF
 Test Mode : Transmitting Tester:Angel Chen
 Note : 5G WIFI 802.11ac20 High Channel 5825MHz 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	78.65	74.11	122.20	-48.09	peak
2	5855.000	-4.48	81.18	76.70	110.80	-34.10	peak
3	5875.000	-4.20	65.85	61.65	105.20	-43.55	peak
4	5925.000	-4.27	63.08	58.81	68.20	-9.39	peak

5G WIFI 802.11ac40 Low Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

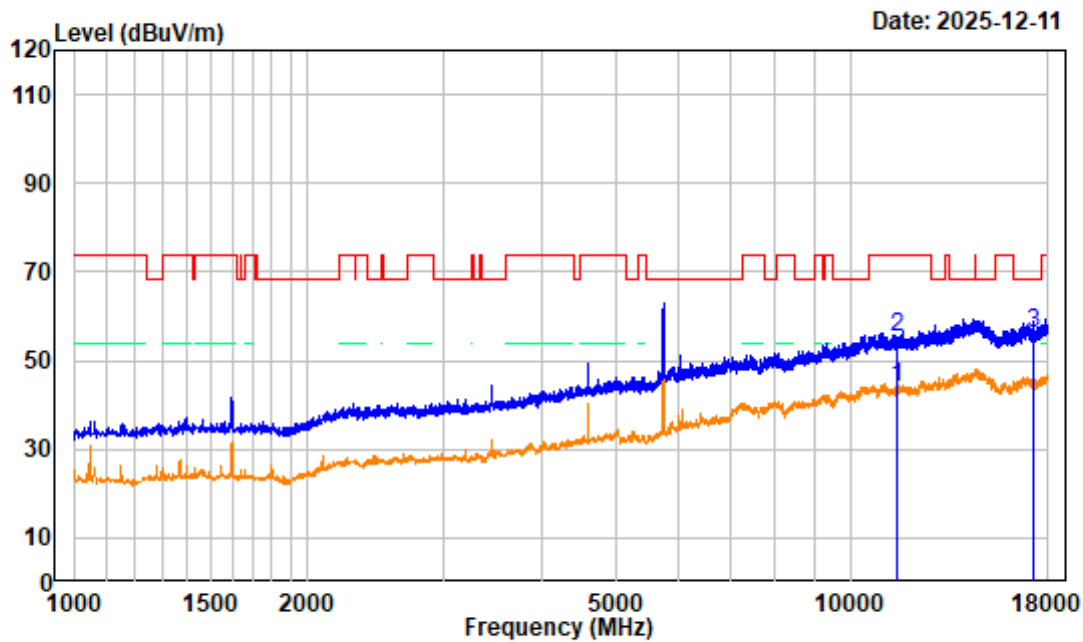
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ac40 Low Channel 5755MHz 1GHz-18GHz

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 11510.000	6.44	38.61	45.05	54.00	-8.95	Average
2 11510.000	6.44	48.43	54.87	74.00	-19.13	peak
3 17265.000	6.75	53.90	60.65	68.20	-7.55	peak

5G WIFI 802.11ac40 Low Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

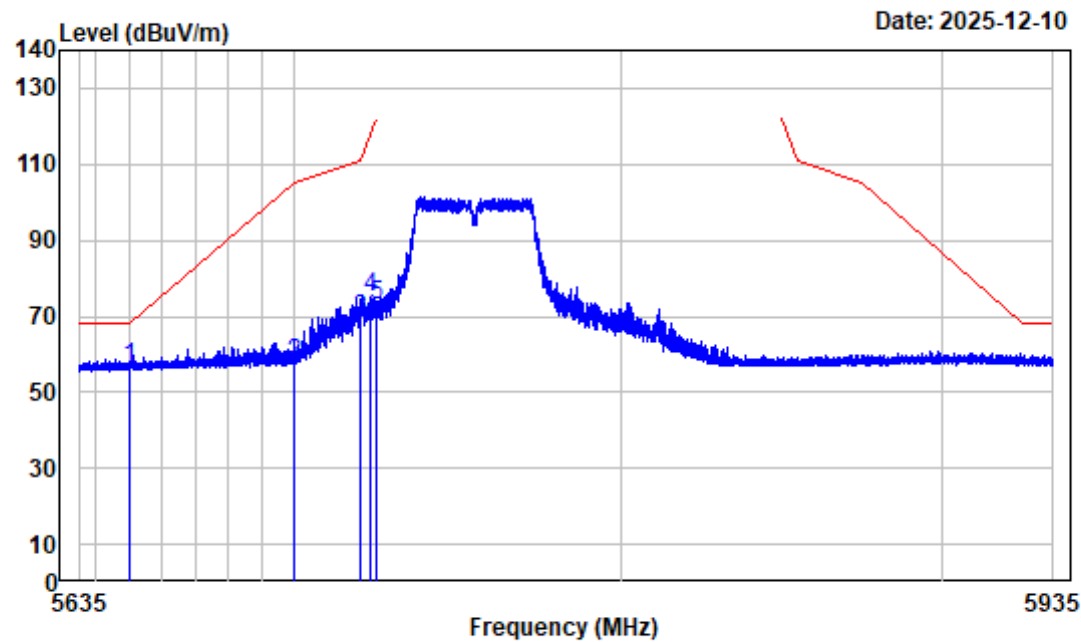
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ac40 Low Channel 5755MHz 1GHz-18GHz

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 11510.000	6.44	37.61	44.05	54.00	-9.95	Average
2 11510.000	6.44	48.78	55.22	74.00	-18.78	peak
3 17265.000	6.75	49.50	56.25	68.20	-11.95	peak

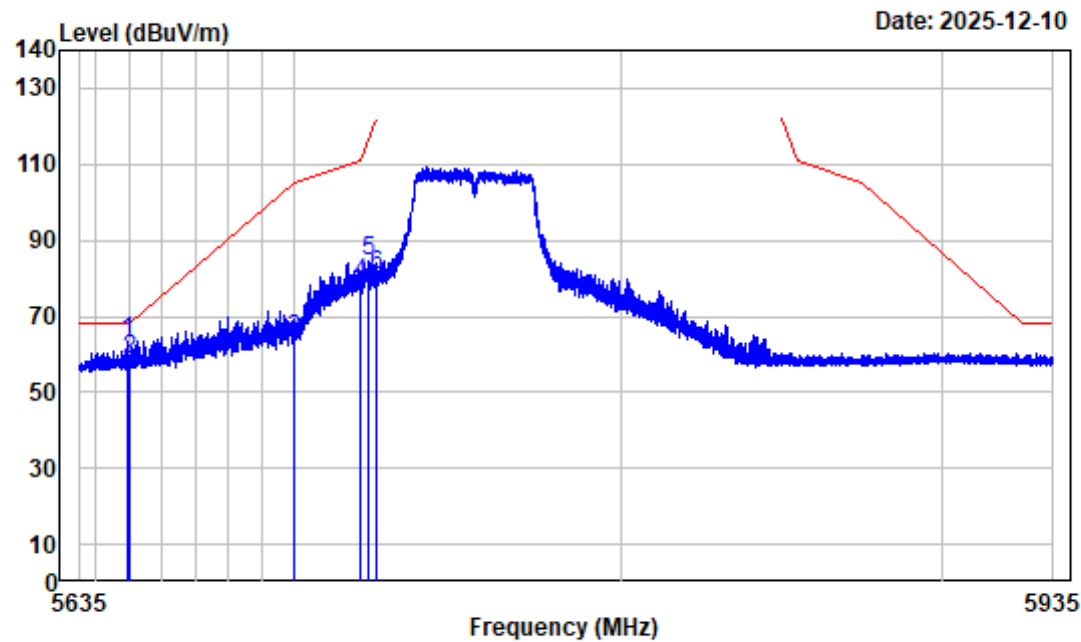
5G WIFI 802.11ac40 Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ac40 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	61.14	56.42	68.20	-11.78	peak
2 5700.000	-4.35	62.15	57.80	105.20	-47.40	peak
3 5720.000	-4.43	73.47	69.04	110.80	-41.76	peak
4 5723.313	-4.44	79.54	75.10	118.35	-43.25	Peak
5 5725.000	-4.45	77.10	72.65	122.20	-49.55	peak

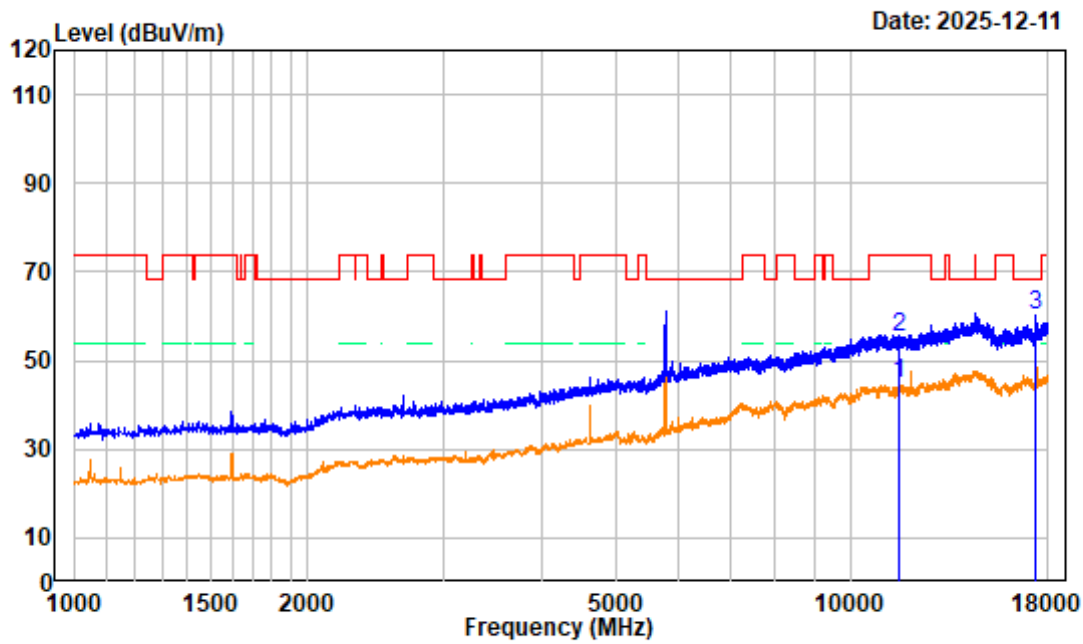
5G WIFI 802.11ac40 Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ac40 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	5649.587	-4.72	68.29	63.57	68.20	-4.63	Peak
2	5650.000	-4.72	63.27	58.55	68.20	-9.65	peak
3	5700.000	-4.35	68.31	63.96	105.20	-41.24	peak
4	5720.000	-4.43	83.30	78.87	110.80	-31.93	peak
5	5722.413	-4.44	89.04	84.60	116.30	-31.70	Peak
6	5725.000	-4.45	85.44	80.99	122.20	-41.21	peak

5G WIFI 802.11ac40 High Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

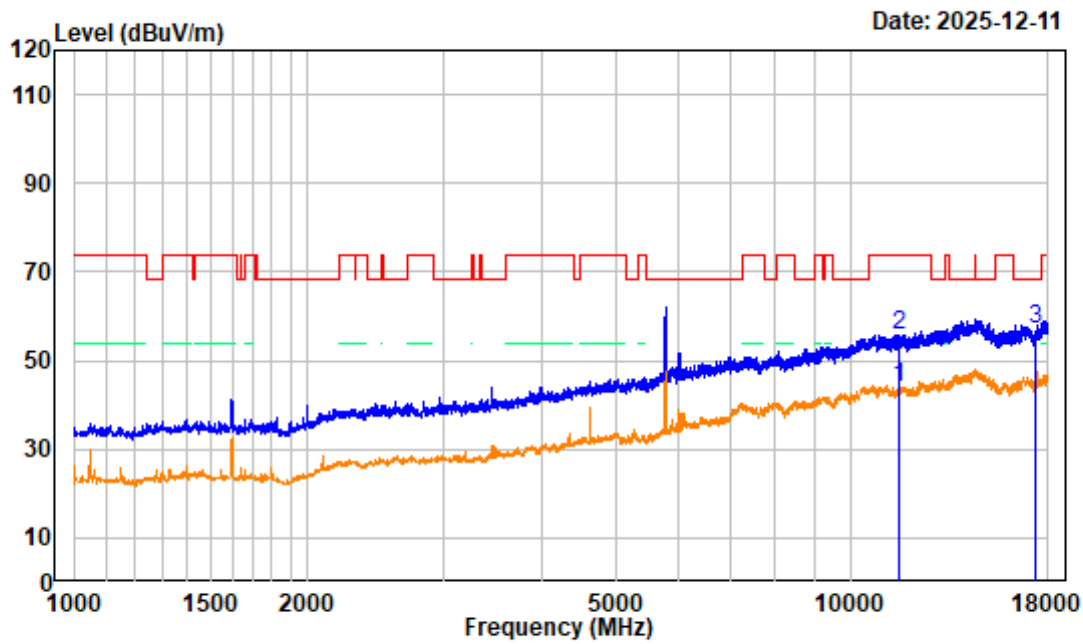
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ac40 High Channel 5795MHz 1GHz-18GHz

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 11590.000	5.82	39.10	44.92	54.00	-9.08	Average
2 11590.000	5.82	49.40	55.22	74.00	-18.78	peak
3 17385.000	6.77	53.62	60.39	68.20	-7.81	peak

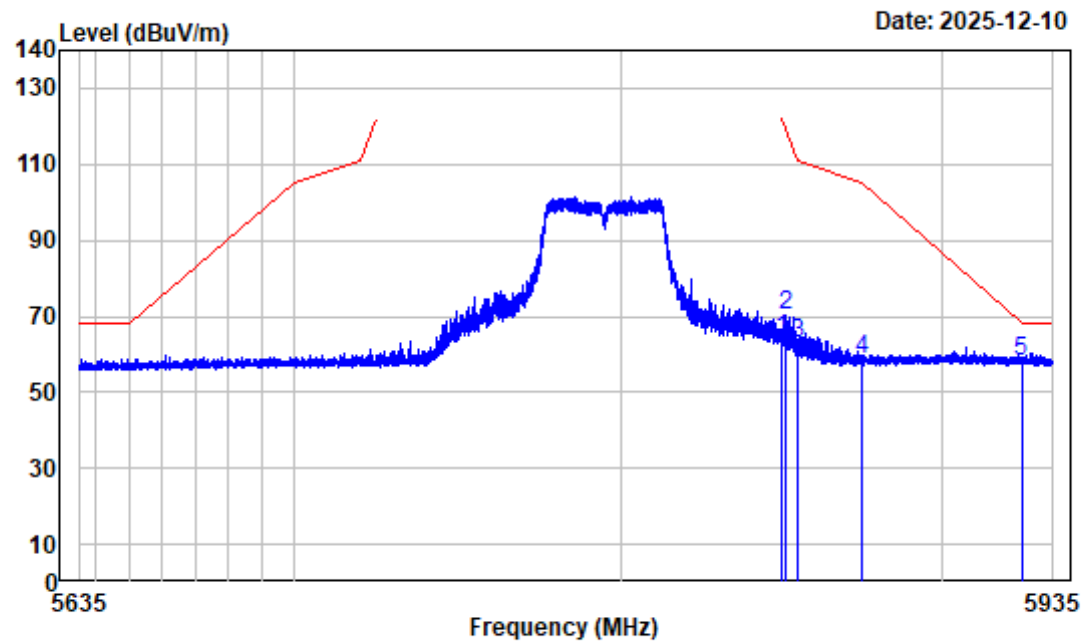
5G WIFI 802.11ac40 High Channel 1GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ac40 High Channel 5795MHz 1GHz-18GHz
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 11590.000	5.82	38.10	43.92	54.00	-10.08	Average
2 11590.000	5.82	49.82	55.64	74.00	-18.36	peak
3 17385.000	6.77	50.28	57.05	68.20	-11.15	peak

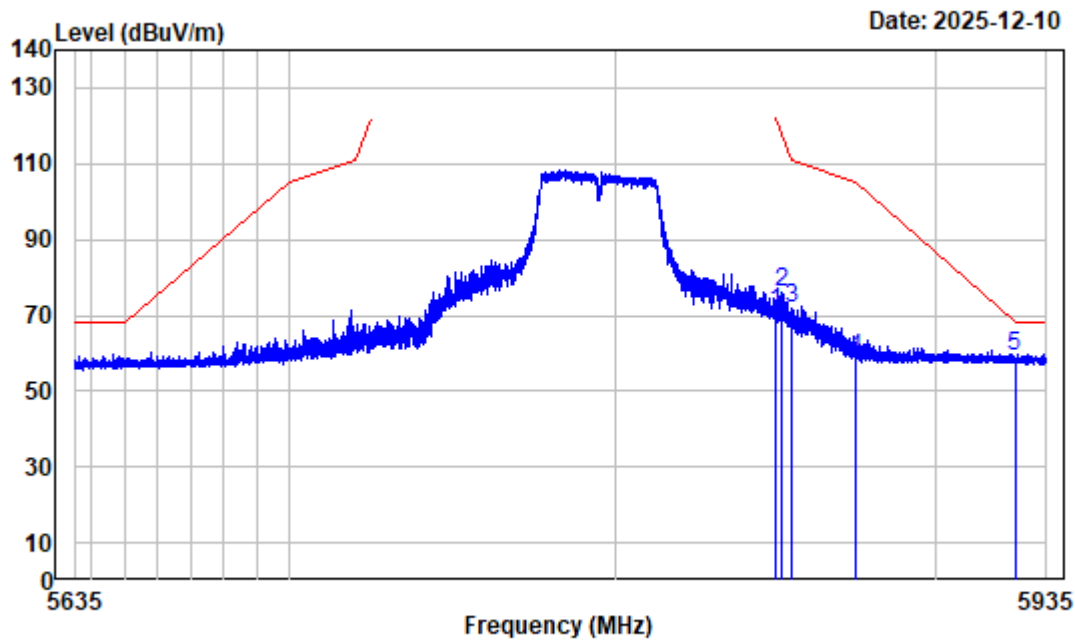
5G WIFI 802.11ac40 High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ac40 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	68.44	63.90	122.20	-58.30	peak
2	5851.375	-4.52	74.99	70.47	119.06	-48.59	Peak
3	5855.000	-4.48	67.27	62.79	110.80	-48.01	peak
4	5875.000	-4.20	62.73	58.53	105.20	-46.67	peak
5	5925.000	-4.27	62.20	57.93	68.20	-10.27	peak

5G WIFI 802.11ac40 High Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

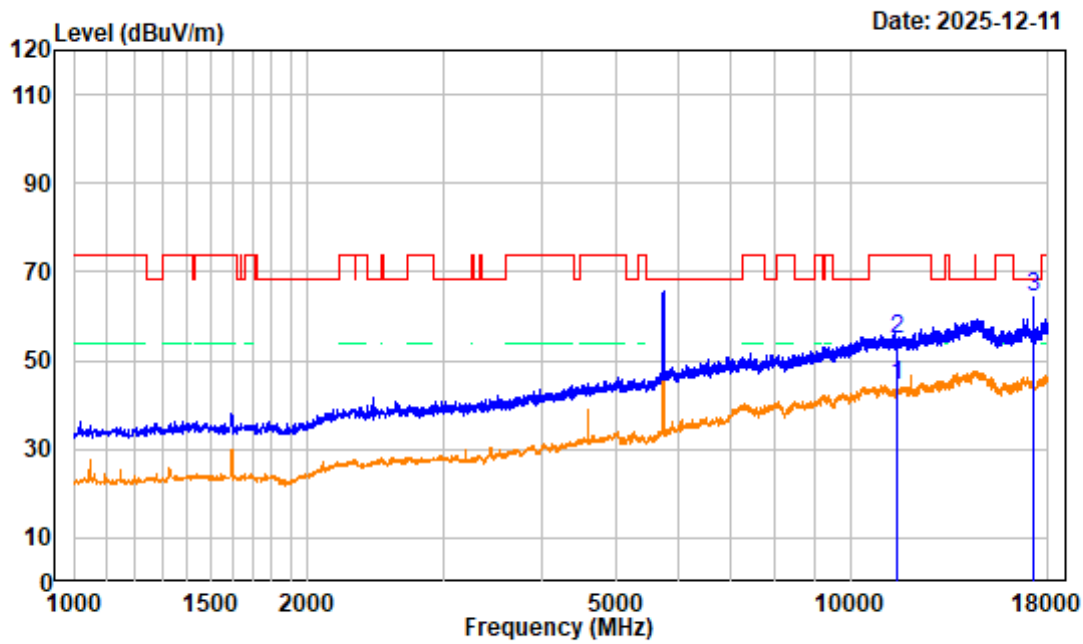
Tester:Angel Chen

Note : 5G WIFI 802.11ac40 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	75.34	70.80	122.20	-51.40	peak
2	5851.975	-4.51	80.72	76.21	117.70	-41.49	Peak
3	5855.000	-4.48	76.07	71.59	110.80	-39.21	peak
4	5875.000	-4.20	62.93	58.73	105.20	-46.47	peak
5	5925.000	-4.27	63.63	59.36	68.20	-8.84	peak

5G WIFI 802.11ax20 Low Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

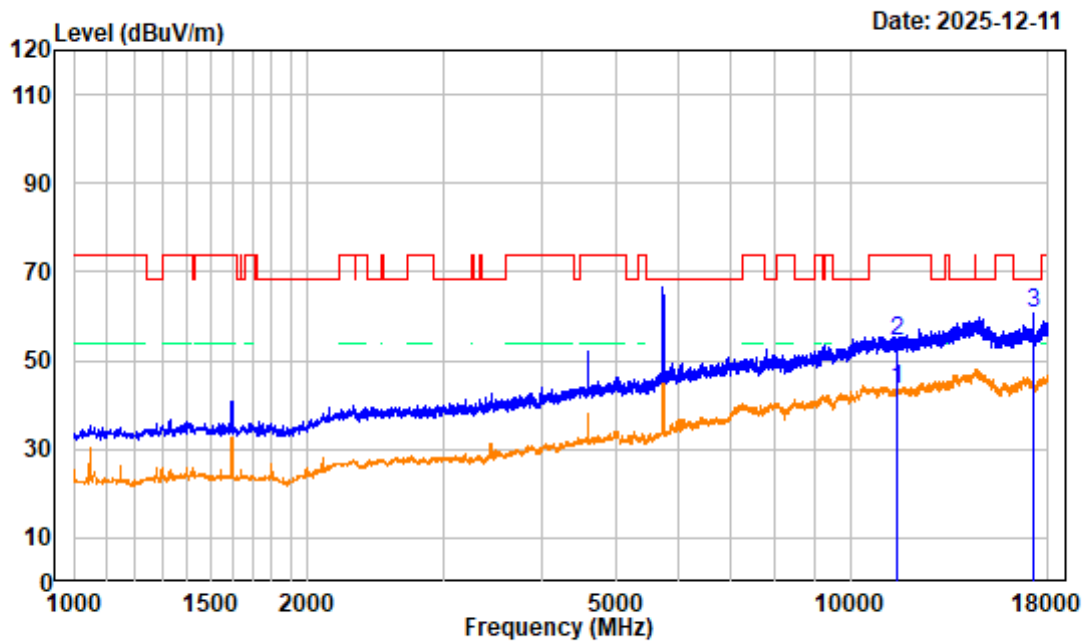
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ax20 Low Channel 5745MHz 1GHz-18GHz

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 11490.000	6.24	38.17	44.41	54.00	-9.59	Average
2 11490.000	6.24	48.52	54.76	74.00	-19.24	peak
3 17235.000	6.82	57.27	64.09	68.20	-4.11	peak

5G WIFI 802.11ax20 Low Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

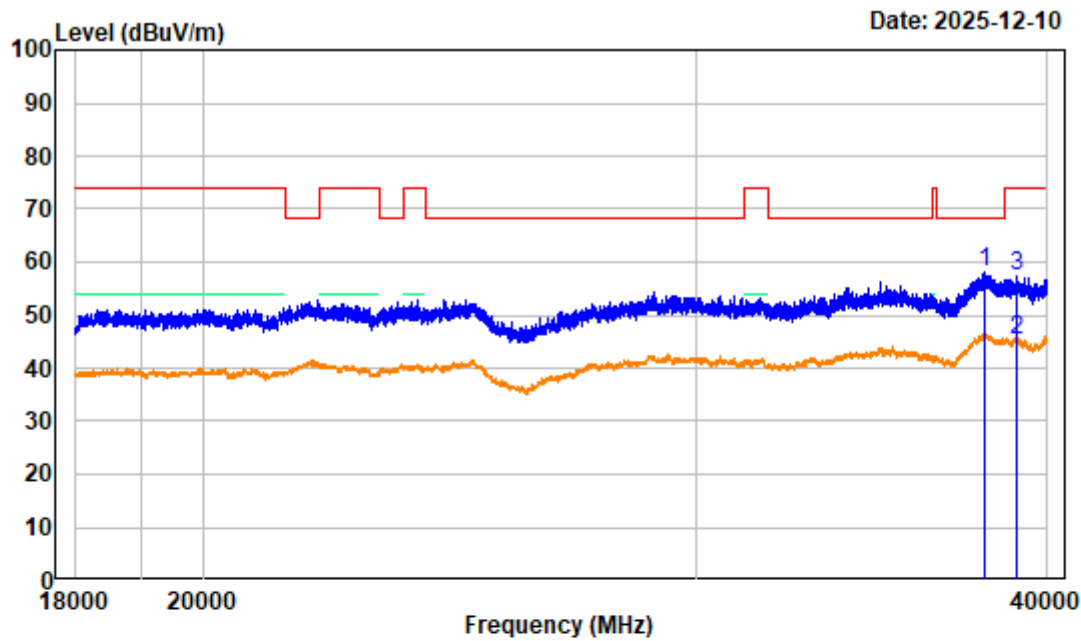
Tester:Angel Chen

Note : 5G WIFI 802.11ax20 Low Channel 5745MHz 1GHz-18GHz

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 11490.000	6.24	37.08	43.32	54.00	-10.68	Average
2 11490.000	6.24	48.06	54.30	74.00	-19.70	peak
3 17235.000	6.82	53.93	60.75	68.20	-7.45	peak

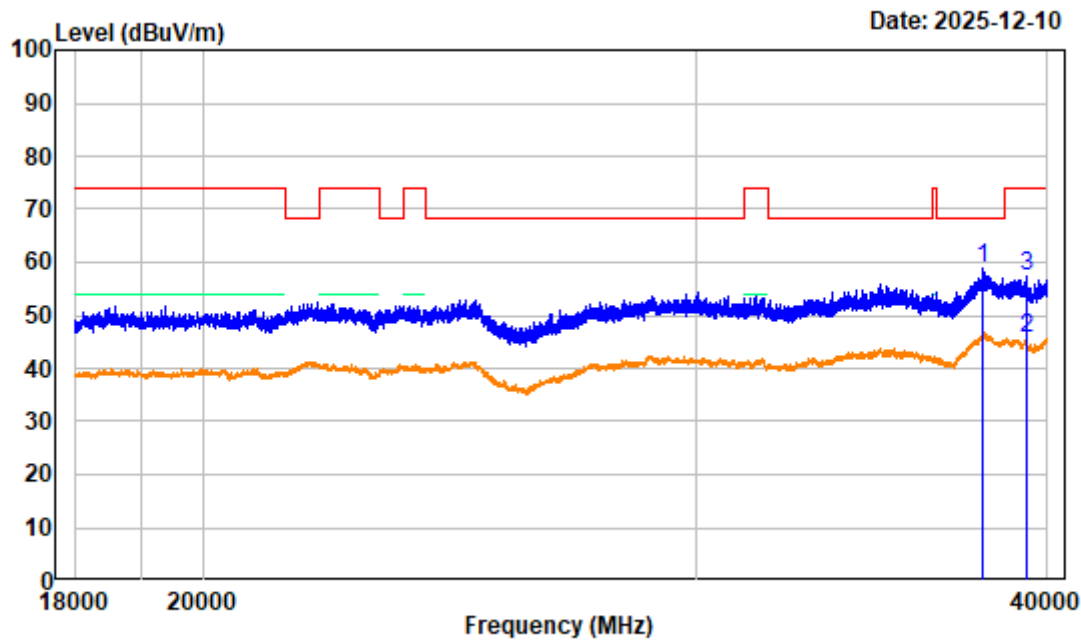
5G WIFI 802.11ax20 Low Channel 18GHz-40GHz_HORTZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WiFi 802.11ax20 Low Channel 5745MHz 18GHz-40GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37978.750	7.96	50.10	58.06	68.20	-10.14	Peak
2	39029.250	6.15	39.18	45.33	54.00	-8.67	Average
3	39029.250	6.15	51.18	57.33	74.00	-16.67	Peak

5G WIFI 802.11ax20 Low Channel 18GHz-40GHz_HORTZONTAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

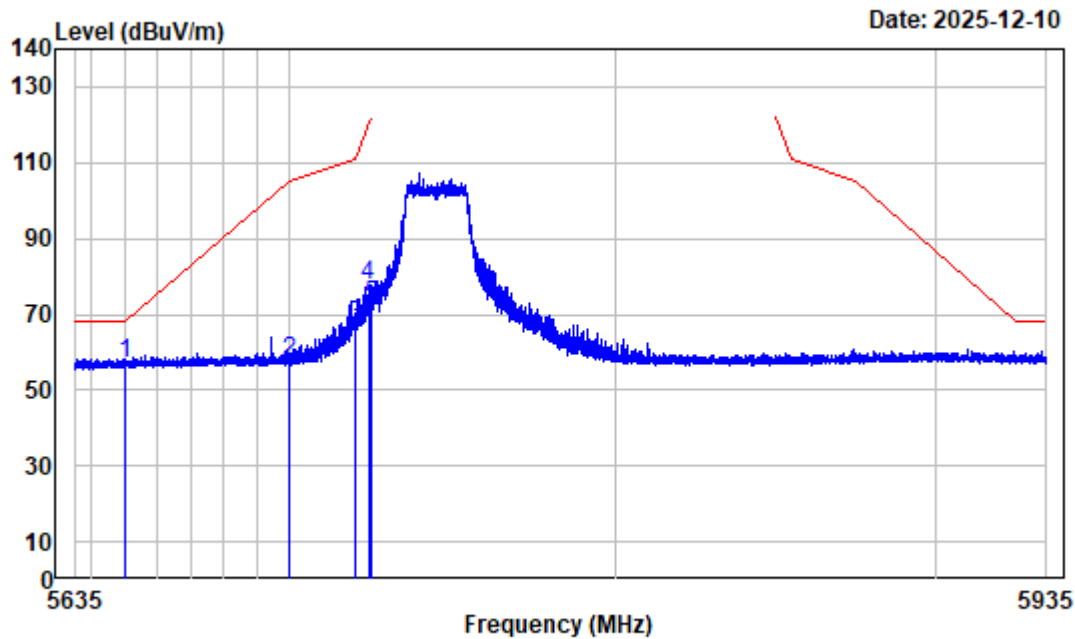
Test Mode : TransmittingTester:Angel Chen

Note : 5G WiFi 802.11ax20 Low Channel 5745MHz 18GHz-40GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:5kHz

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37962.250	7.88	50.85	58.73	68.20	-9.47	Peak
2	39329.000	4.68	41.03	45.71	54.00	-8.29	Average
3	39329.000	4.68	52.72	57.40	74.00	-16.60	Peak

5G WIFI 802.11ax20 Low Channel Bandedge_ HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

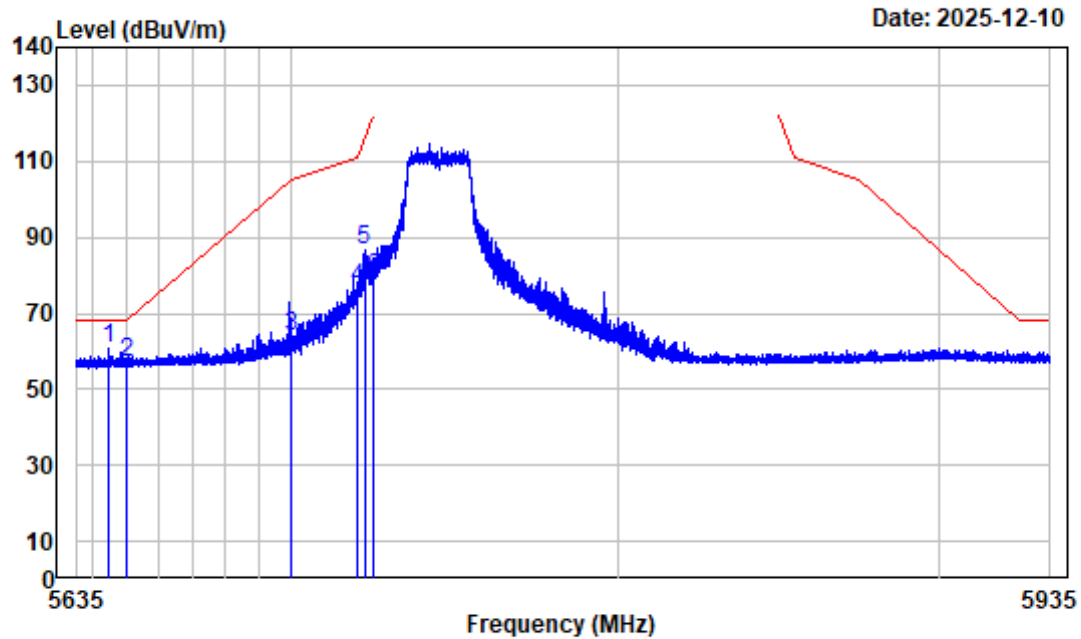
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ax20 Low Channel 5745MHz 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	61.64	56.92	68.20	-11.28	peak
2	5700.000	-4.35	62.07	57.72	105.20	-47.48	peak
3	5720.000	-4.43	71.29	66.86	110.80	-43.94	peak
4	5724.063	-4.45	81.93	77.48	120.06	-42.58	Peak
5	5725.000	-4.45	76.83	72.38	122.20	-49.82	peak

5G WIFI 802.11ax20 Low Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

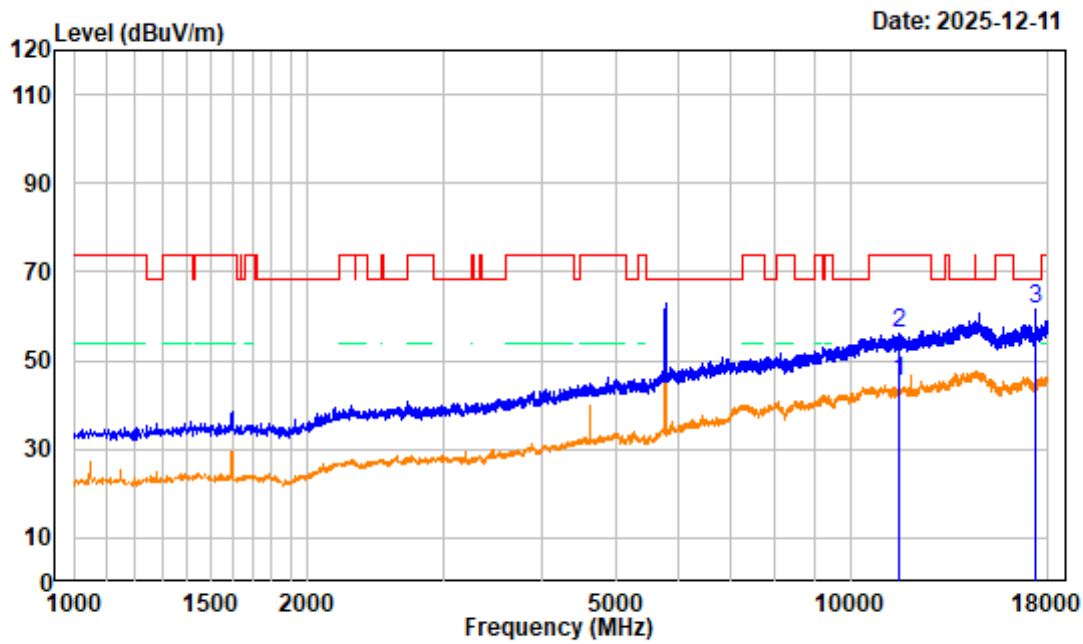
Tester: Angel Chen

Note : 5G WIFI 802.11ax20 Low Channel 5745MHz 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	5645.087	-4.78	65.43	60.65	68.20	-7.55	Peak
2	5650.000	-4.72	61.66	56.94	68.20	-11.26	peak
3	5700.000	-4.35	68.03	63.68	105.20	-41.52	peak
4	5720.000	-4.43	81.01	76.58	110.80	-34.22	peak
5	5722.225	-4.44	91.24	86.80	115.87	-29.07	Peak
6	5725.000	-4.45	83.43	78.98	122.20	-43.22	peak

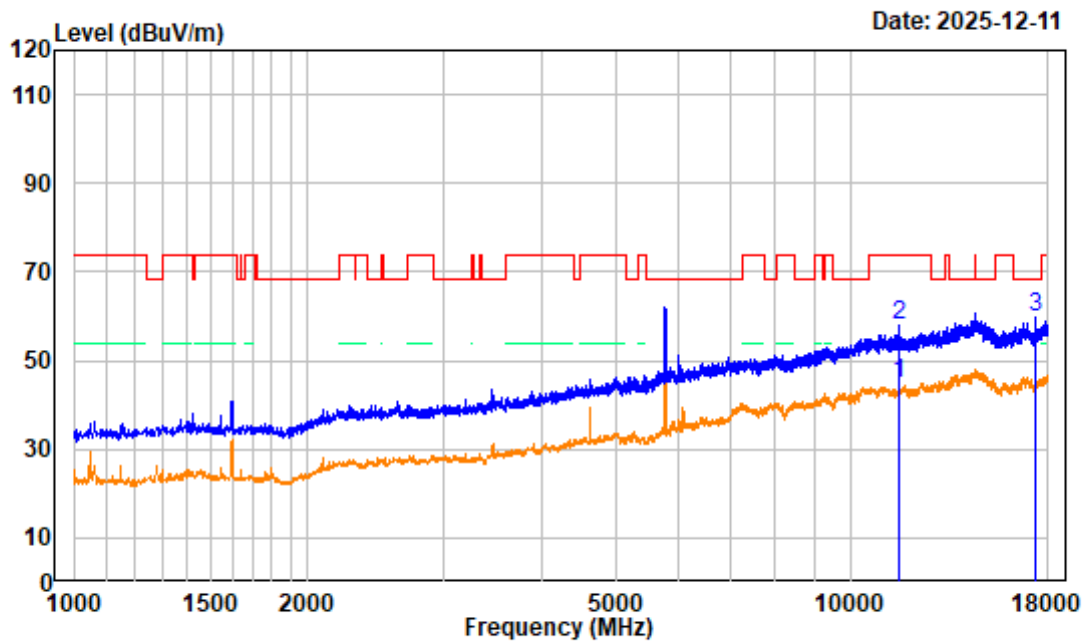
5G WIFI 802.11ax20 Middle Channel 1GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ax20 Middle Channel 5785MHz 1GHz-18GHz
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 11570.000	6.02	39.34	45.36	54.00	-8.64	Average
2 11570.000	6.02	49.98	56.00	74.00	-18.00	peak
3 17355.000	6.60	54.92	61.52	68.20	-6.68	peak

5G WIFI 802.11ax20 Middle Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

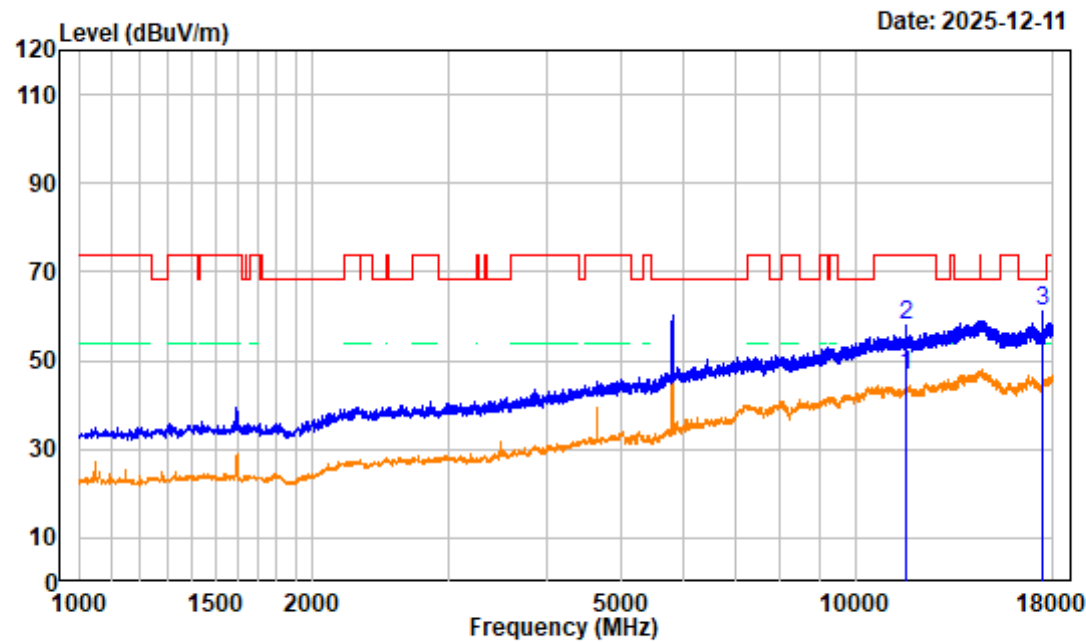
Tester:Angel Chen

Note : 5G WIFI 802.11ax20 Middle Channel 5785MHz 1GHz-18GHz

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 11570.000	6.02	38.64	44.66	54.00	-9.34	Average
2 11570.000	6.02	51.72	57.74	74.00	-16.26	peak
3 17355.000	6.60	53.32	59.92	68.20	-8.28	peak

5G WIFI 802.11ax20 High Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

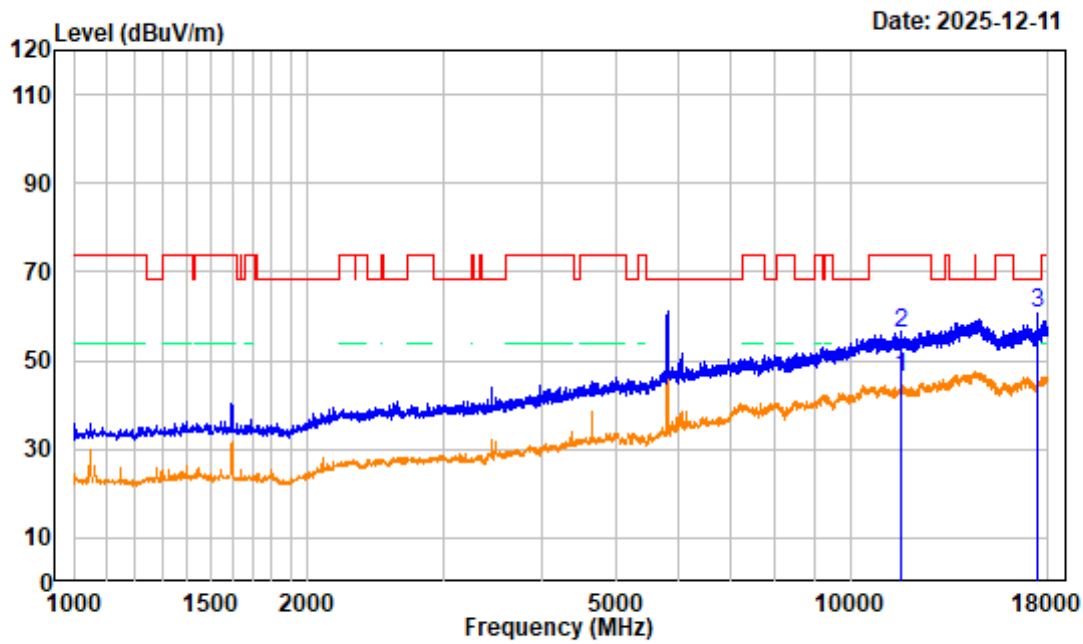
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ax20 High Channel 5825MHz 1GHz-18GHz

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	41.12	46.48	54.00	-7.52	Average
2 11650.000	5.36	52.50	57.86	74.00	-16.14	peak
3 17475.000	7.21	54.01	61.22	68.20	-6.98	peak

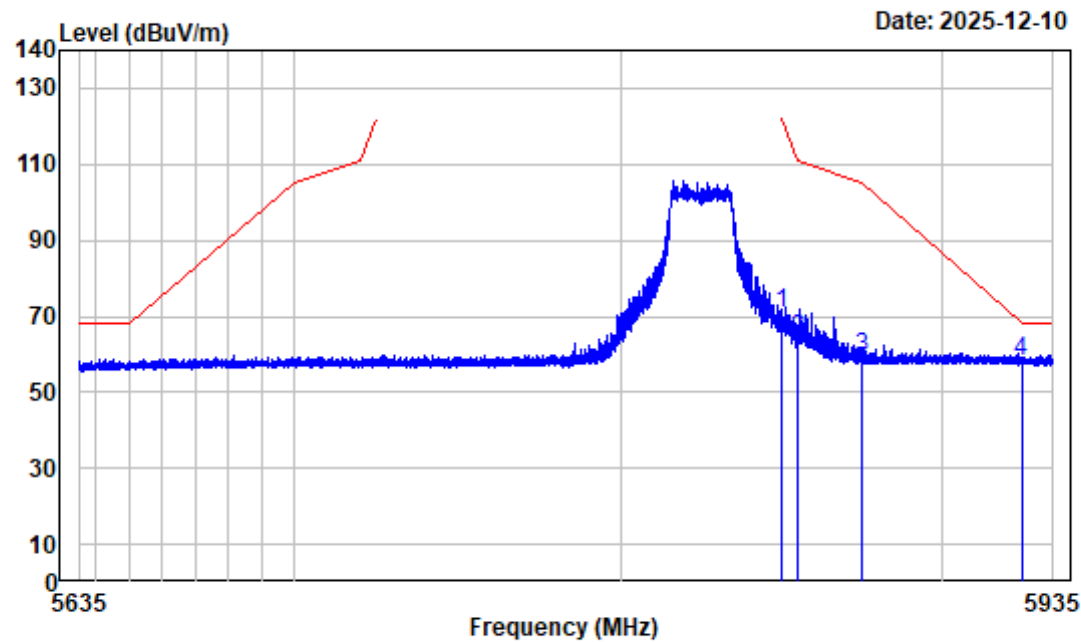
5G WIFI 802.11ax20 High Channel 1GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ax20 High Channel 5825MHz 1GHz-18GHz
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	40.84	46.20	54.00	-7.80	Average
2 11650.000	5.36	50.77	56.13	74.00	-17.87	peak
3 17475.000	7.21	53.28	60.49	68.20	-7.71	peak

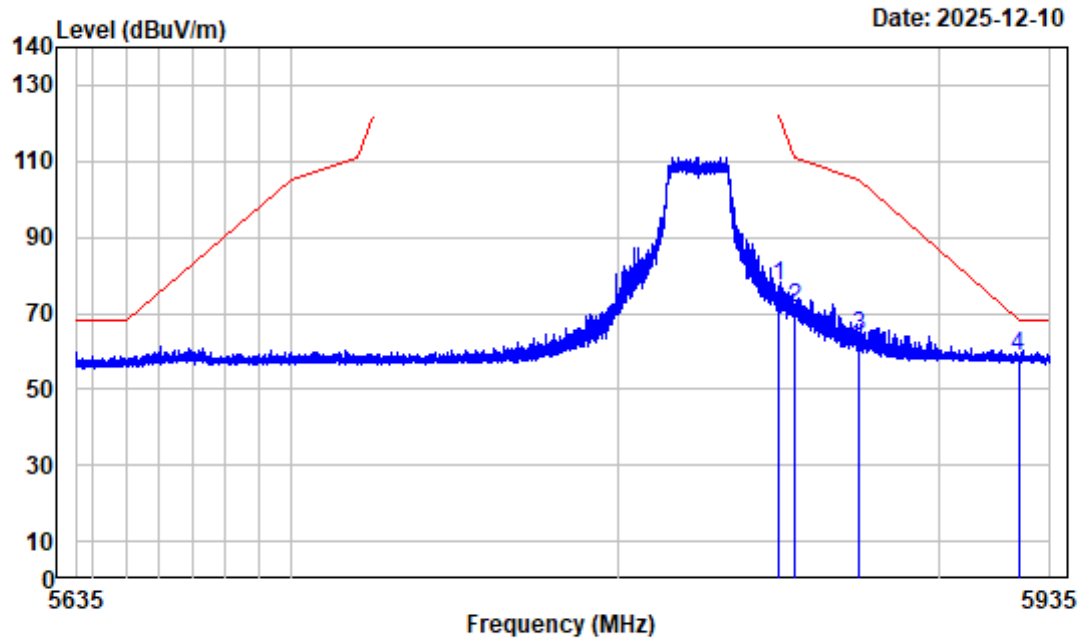
5G WIFI 802.11ax20 High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ax20 High Channel 5825MHz 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	75.40	70.86	122.20	-51.34 peak
2	5855.000	-4.48	68.44	63.96	110.80	-46.84 peak
3	5875.000	-4.20	63.40	59.20	105.20	-46.00 peak
4	5925.000	-4.27	62.47	58.20	68.20	-10.00 peak

5G WIFI 802.11ax20 High Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

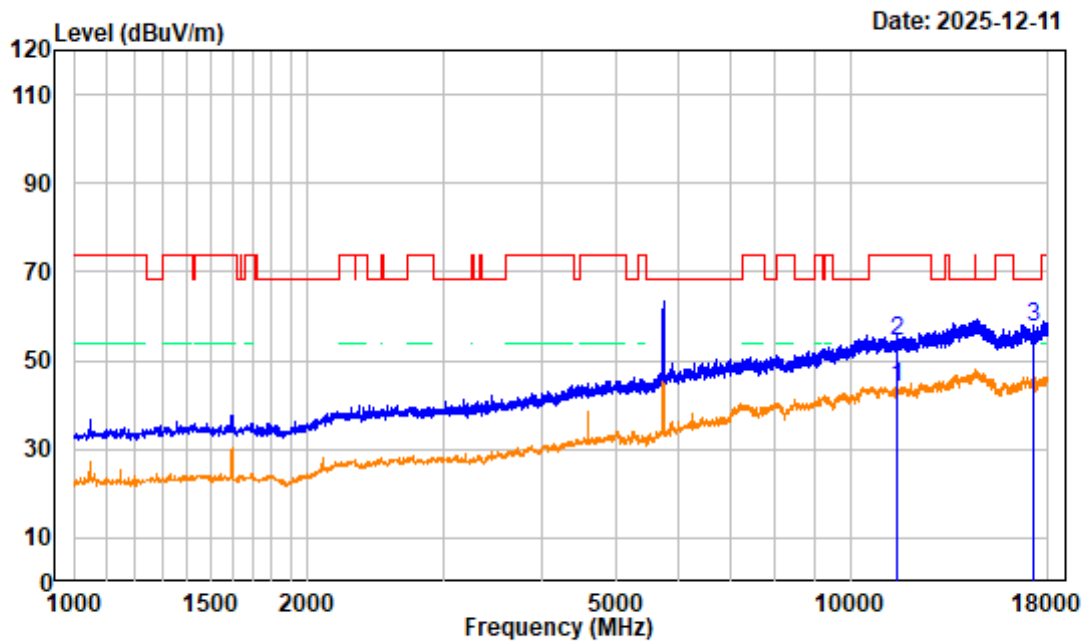
Tester: Angel Chen

Note : 5G WIFI 802.11ax20 High Channel 5825MHz 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	81.60	77.06	122.20	-45.14	peak
2	5855.000	-4.48	76.01	71.53	110.80	-39.27	peak
3	5875.000	-4.20	67.97	63.77	105.20	-41.43	peak
4	5925.000	-4.27	62.72	58.45	68.20	-9.75	peak

5G WIFI 802.11ax40 Low Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

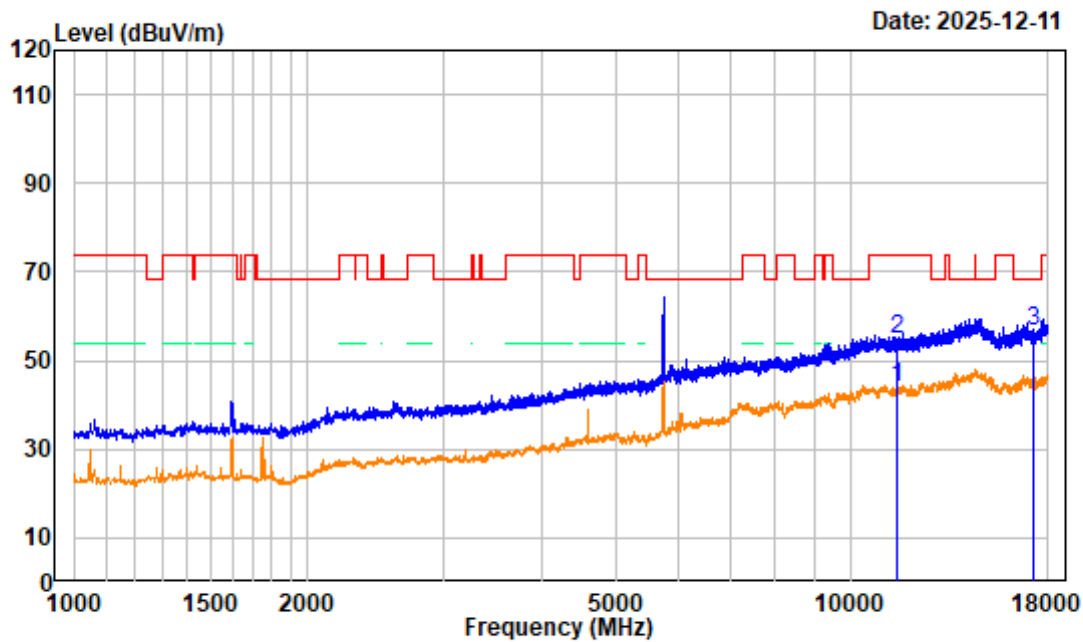
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ax40 Low Channel 5755MHz 1GHz-18GHz

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 11510.000	6.44	37.56	44.00	54.00	-10.00	Average
2 11510.000	6.44	47.99	54.43	74.00	-19.57	peak
3 17265.000	6.75	50.92	57.67	68.20	-10.53	peak

5G WIFI 802.11ax40 Low Channel 1GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

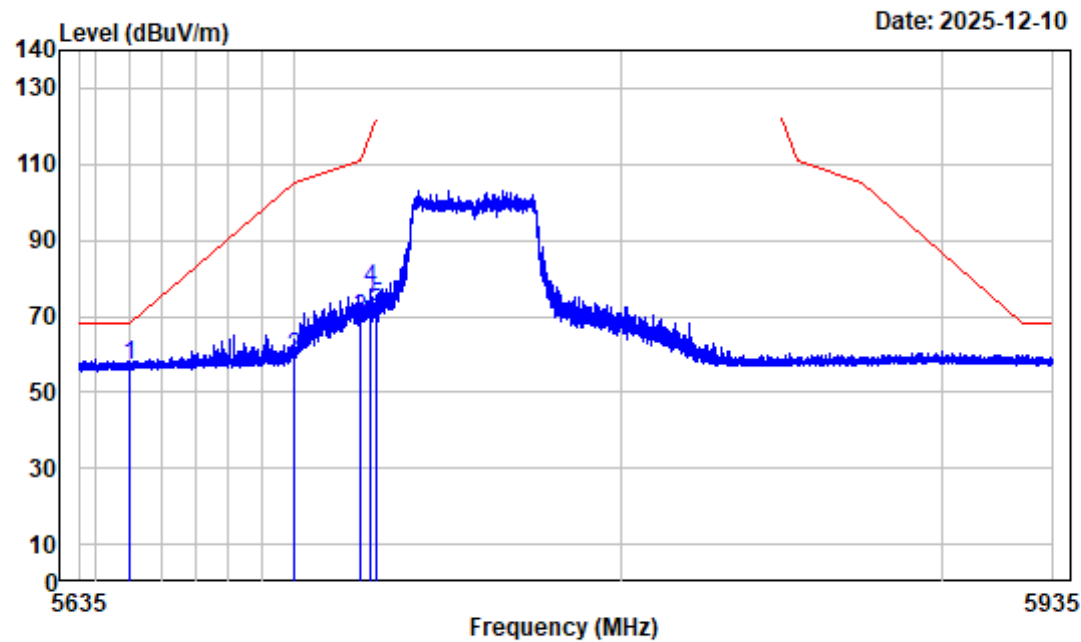
Tester:Angel Chen

Note : 5G WIFI 802.11ax40 Low Channel 5755MHz 1GHz-18GHz

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 11510.000	6.44	37.65	44.09	54.00	-9.91	Average
2 11510.000	6.44	48.57	55.01	74.00	-18.99	peak
3 17265.000	6.75	49.66	56.41	68.20	-11.79	peak

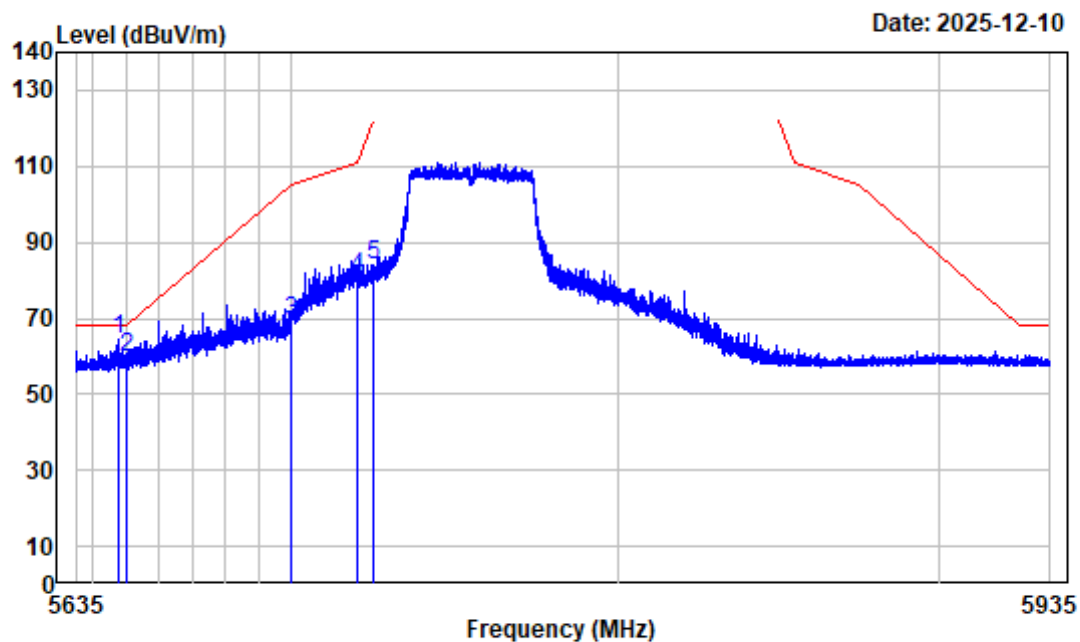
5G WIFI 802.11ax40 Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ax40 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	61.95	57.23	68.20	-10.97 peak
2	5700.000	-4.35	63.61	59.26	105.20	-45.94 peak
3	5720.000	-4.43	73.85	69.42	110.80	-41.38 peak
4	5723.350	-4.44	81.69	77.25	118.44	-41.19 Peak
5	5725.000	-4.45	76.87	72.42	122.20	-49.78 peak

5G WIFI 802.11ax40 Low Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

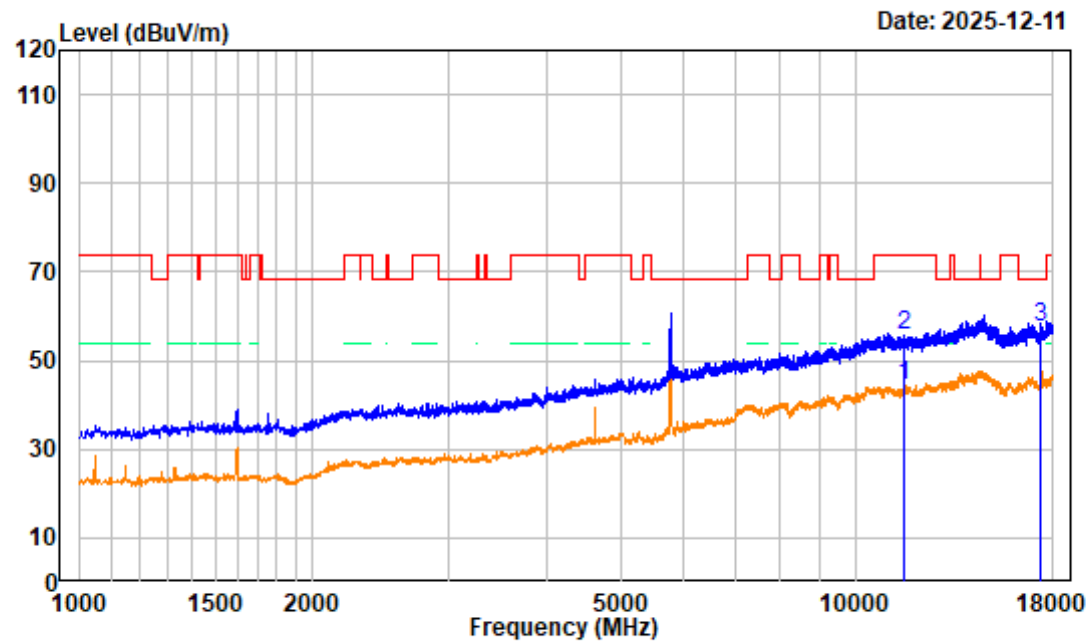
Tester:Angel Chen

Note : 5G WIFI 802.11ax40 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	5647.938	-4.75	69.11	64.36	68.20	-3.84	Peak
2	5650.000	-4.72	64.23	59.51	68.20	-8.69	peak
3	5700.000	-4.35	73.62	69.27	105.20	-35.93	peak
4	5720.000	-4.43	85.35	80.92	110.80	-29.88	peak
5	5725.000	-4.45	88.43	83.98	122.20	-38.22	peak

5G WIFI 802.11ax40 High Channel 1GHz-18GHz_HORTZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

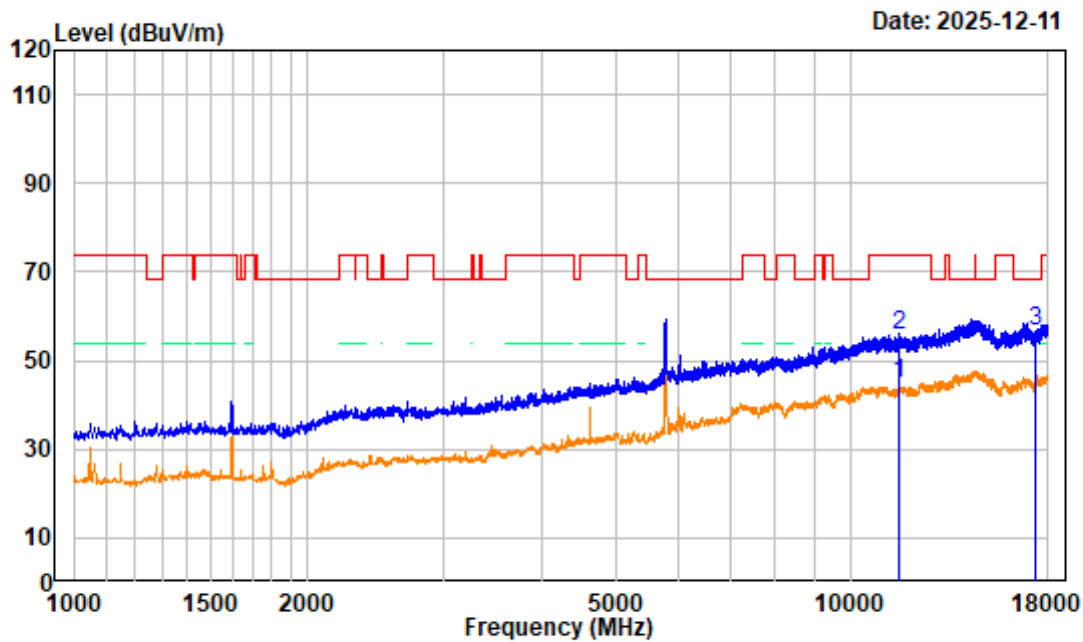
Test Mode : TransmittingTester:Angel Chen

Note : 5G WIFI 802.11ax40 High Channel 5795MHz 1GHz-18GHz

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 11590.000	5.82	38.62	44.44	54.00	-9.56	Average
2 11590.000	5.82	49.78	55.60	74.00	-18.40	peak
3 17385.000	6.77	50.95	57.72	68.20	-10.48	peak

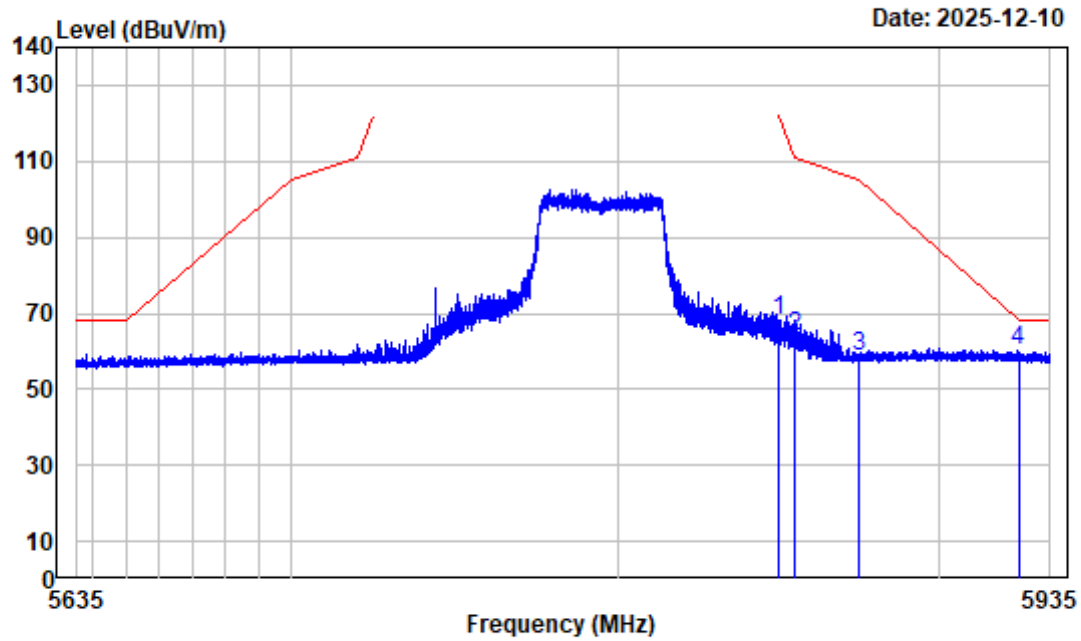
5G WIFI 802.11ax40 High Channel 1GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ax40 High Channel 5795MHz 1GHz-18GHz
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 11590.000	5.82	38.85	44.67	54.00	-9.33	Average
2 11590.000	5.82	49.72	55.54	74.00	-18.46	peak
3 17385.000	6.77	50.01	56.78	68.20	-11.42	peak

5G WIFI 802.11ax40 High Channel Bandedge_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504Z39370E-RF

Test Mode : Transmitting

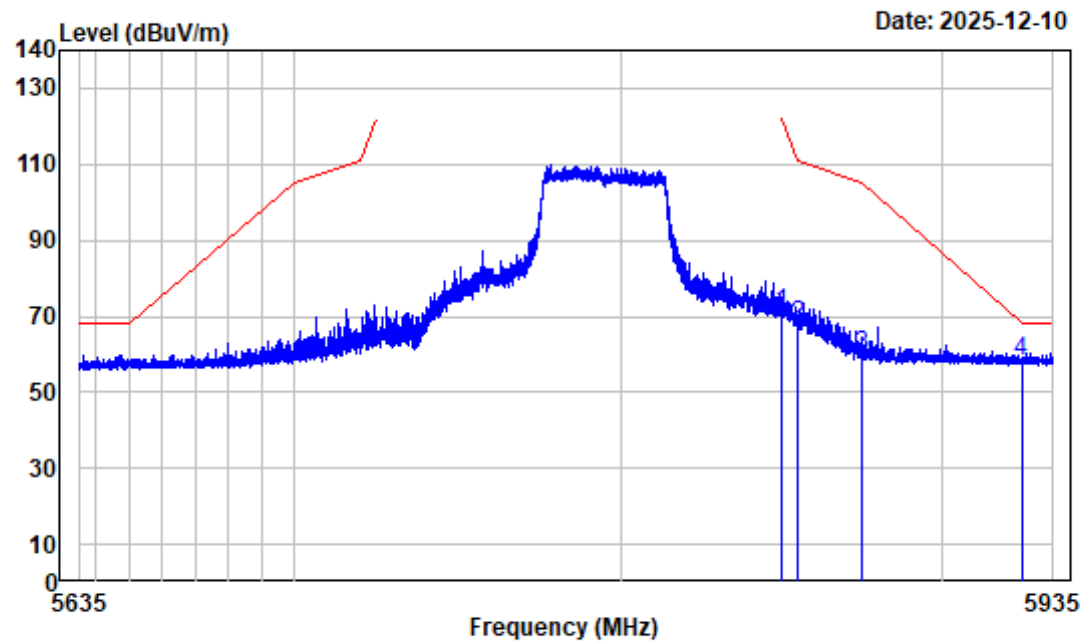
Tester: Angel Chen

Note : 5G WIFI 802.11ax40 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	72.66	68.12	122.20	-54.08	peak
2	5855.000	-4.48	68.32	63.84	110.80	-46.96	peak
3	5875.000	-4.20	62.75	58.55	105.20	-46.65	peak
4	5925.000	-4.27	64.34	60.07	68.20	-8.13	peak

5G WIFI 802.11ax40 High Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504Z39370E-RF
Test Mode : Transmitting Tester:Angel Chen
Note : 5G WIFI 802.11ax40 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	75.57	71.03	122.20	-51.17	peak
2	5855.000	-4.48	72.33	67.85	110.80	-42.95	peak
3	5875.000	-4.20	64.13	59.93	105.20	-45.27	peak
4	5925.000	-4.27	62.50	58.23	68.20	-9.97	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) $\geq 3 \times$ 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.

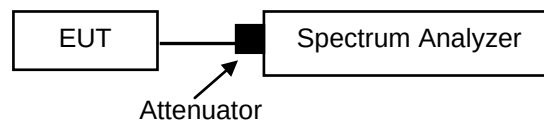
3. 99% Occupied Bandwidth

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 $\geq 3 \times$ 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.



Note: Offset = RF cable loss(0.5dB[#]) + Attenuator(10dB)

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 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 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).

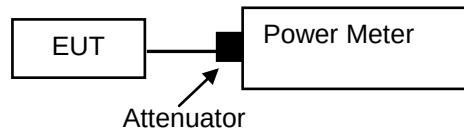
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not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

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



Note: Offset = RF cable loss(0.5dB[#]) + Attenuator(10dB)

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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 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 $\geq 98\%$

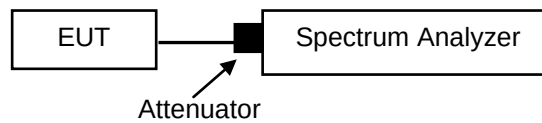
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

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.



Note: Offset = RF cable loss($0.5\text{dB}^{\#}$) + Attenuator(10dB)

Test Data

Test Result: Compliance. Please refer to the Appendix.

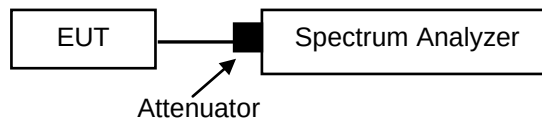
DUTY CYCLE

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 $RBW \geq OBW$ 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 $T \leq 16.7 \mu s$.)



Note: Offset = RF cable loss(0.5dB[#]) + Attenuator(10dB)

Test Data

Test Result: Compliance. Please refer to the Appendix.

APPENDIX

Test Information:

Sample No.:	2504Z39370E-RF	Test Date:	2025/12/13
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.2	Relative Humidity: (%)	46	ATM Pressure: (kPa)	100.9
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Emission Bandwidth

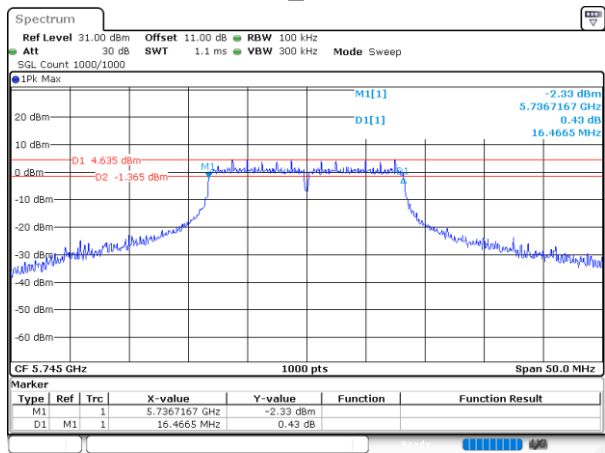
6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.467	0.5	Pass
	5785	16.467	0.5	Pass
	5825	16.416	0.5	Pass
802.11ac20	5745	17.668	0.5	Pass
	5785	17.718	0.5	Pass
	5825	17.668	0.5	Pass
802.11ac40	5755	36.537	0.5	Pass
	5795	36.537	0.5	Pass
802.11ax20_RU_Full	5745	19.069	0.5	Pass
	5785	19.069	0.5	Pass
	5825	19.119	0.5	Pass
802.11ax40_RU_FULL	5755	38.238	0.5	Pass
	5795	38.238	0.5	Pass

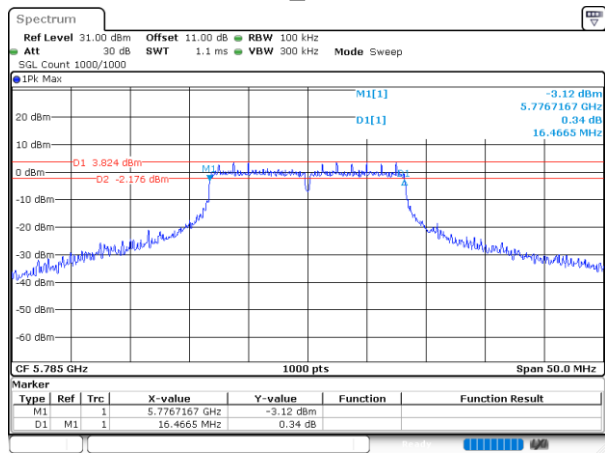
5725-5850MHz

802.11a_5745MHz



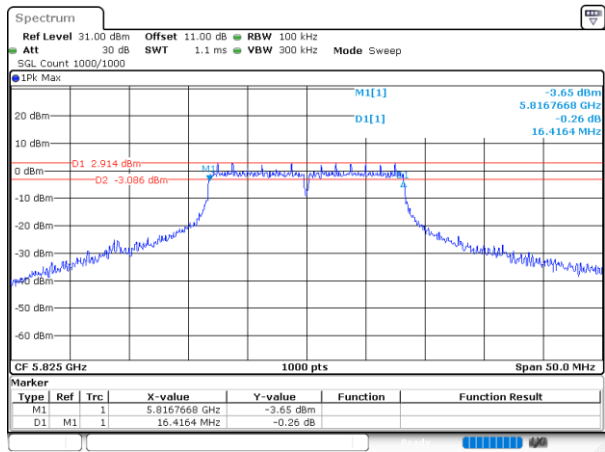
ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 17:58:38

802.11a_5785MHz



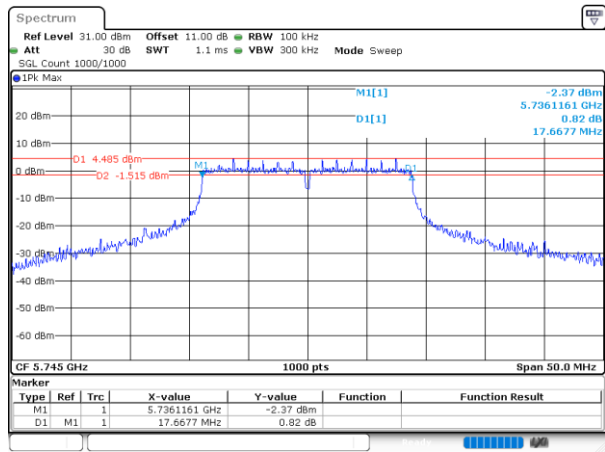
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Date: 13.DEC.2025 17:59:58

802.11a_5825MHz



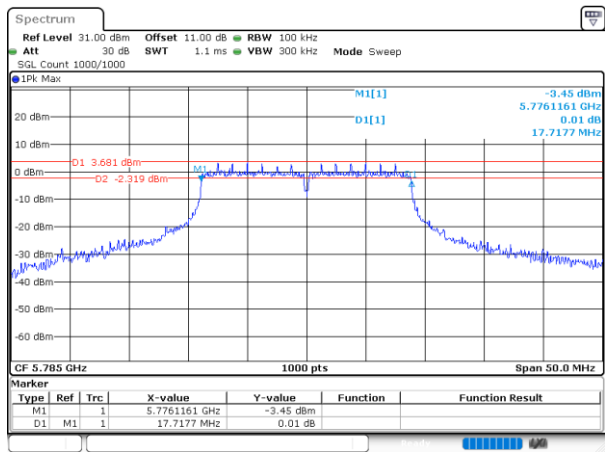
ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:00:57

802.11ac20_5745MHz



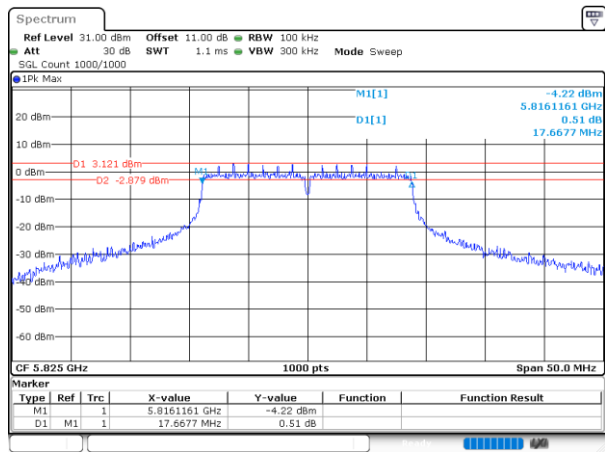
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Date: 13.DEC.2025 18:06:35

802.11ac20_5785MHz



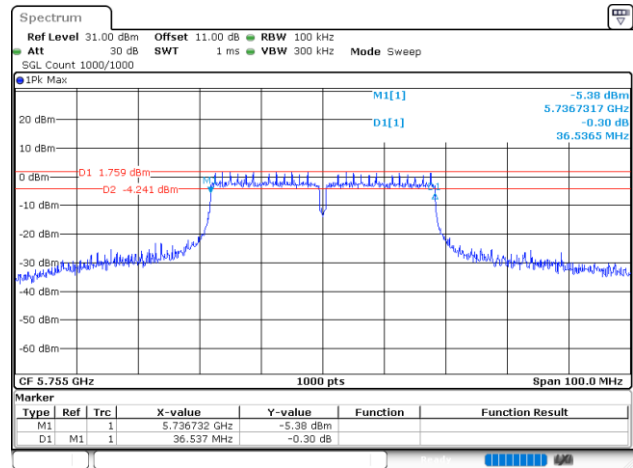
ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:07:54

802.11ac20_5825MHz



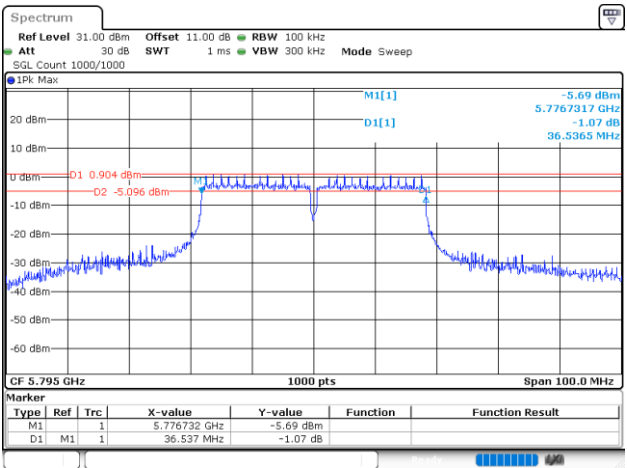
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Date: 13.DEC.2025 18:08:48

802.11ac40_5755MHz



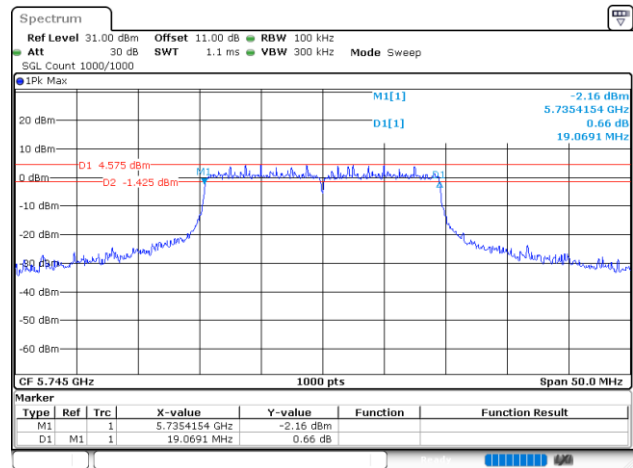
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Date: 13.DEC.2025 18:09:26

802.11ac40_5795MHz



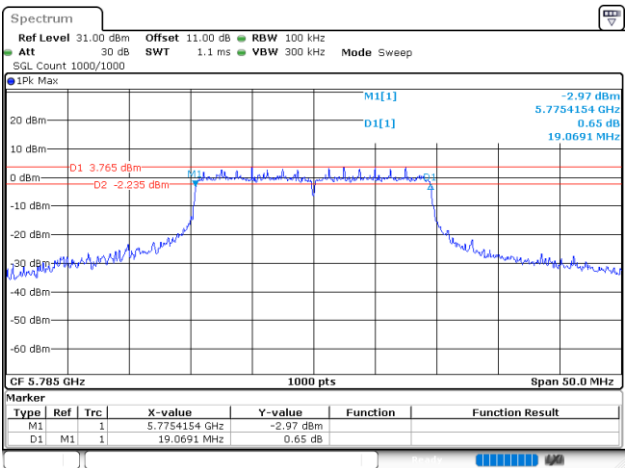
ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:10:03

802.11ax20_5745MHz_RU_Full



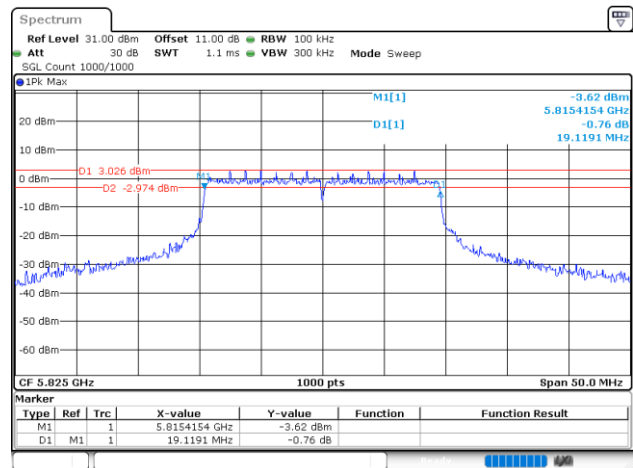
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Date: 13.DEC.2025 18:02:01

802.11ax20_5785MHz_RU_Full



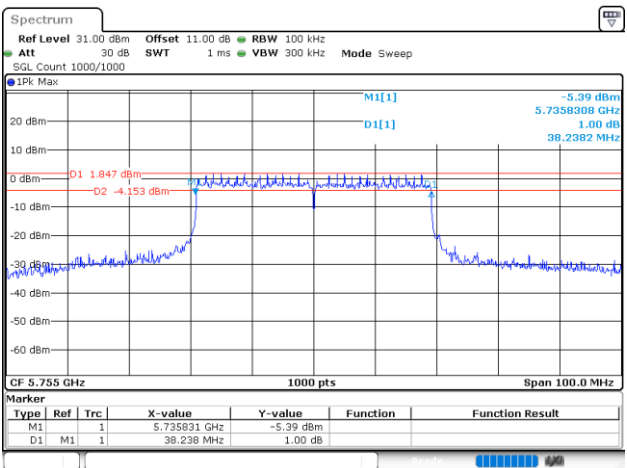
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Date: 13.DEC.2025 18:03:13

802.11ax20_5825MHz_RU_Full



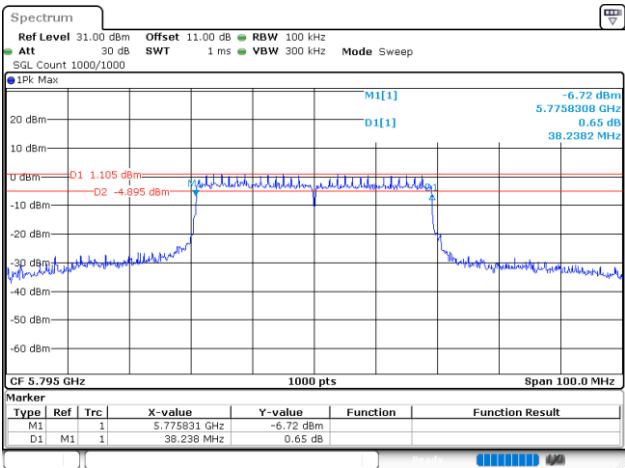
ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:04:04

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:04:46

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:05:35

99% Occupied Bandwidth

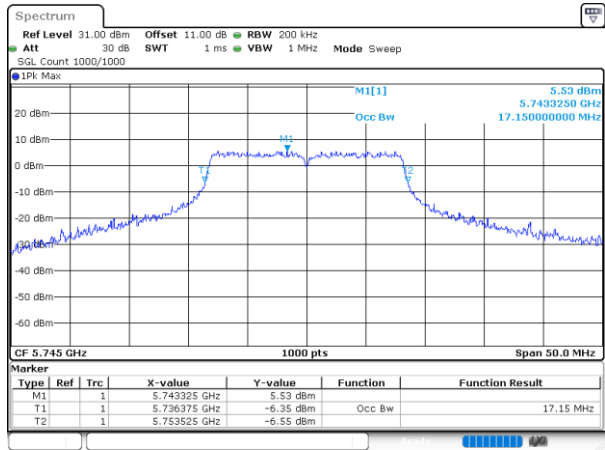
5725-5850MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	17.150
	5785	17.200
	5825	17.100
802.11ac20	5745	18.250
	5785	18.250
	5825	18.250
802.11ac40	5755	37.800
	5795	37.700
802.11ax20_RU_Full	5745	19.350
	5785	19.400
	5825	19.300
802.11ax40_RU_FULL	5755	38.400
	5795	38.400

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

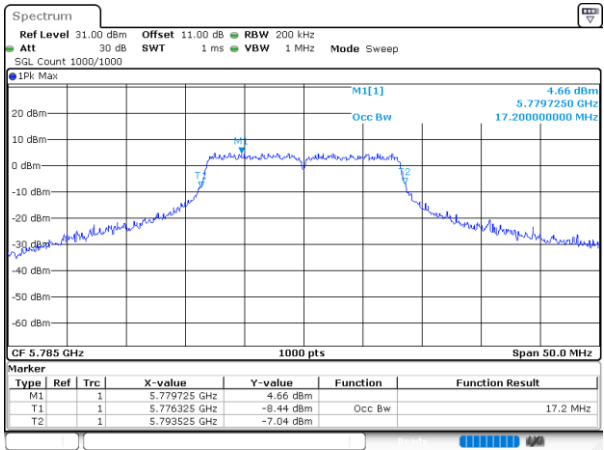
5725-5850MHz

802.11a_5745MHz



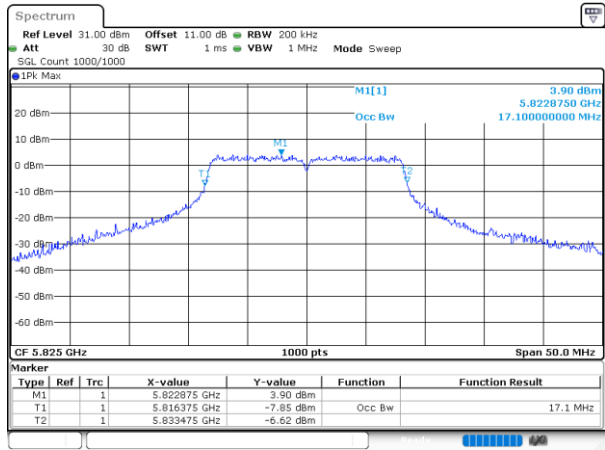
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Date: 13.DEC.2025 17:58:17

802.11a_5785MHz



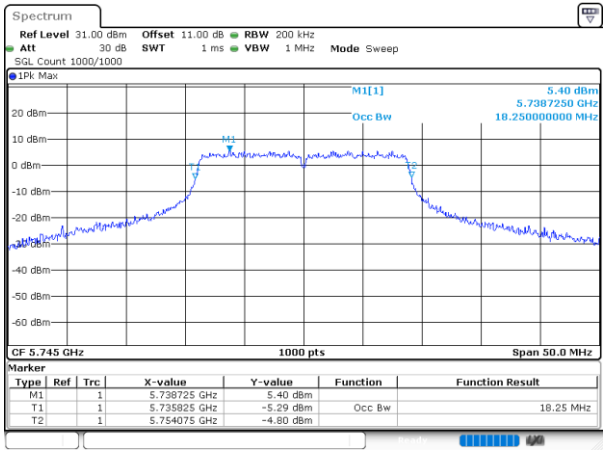
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802.11a_5825MHz



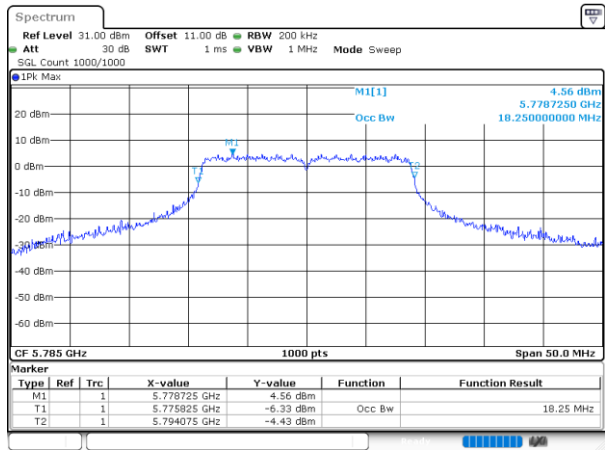
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Date: 13.DEC.2025 18:00:42

802.11ac20_5745MHz



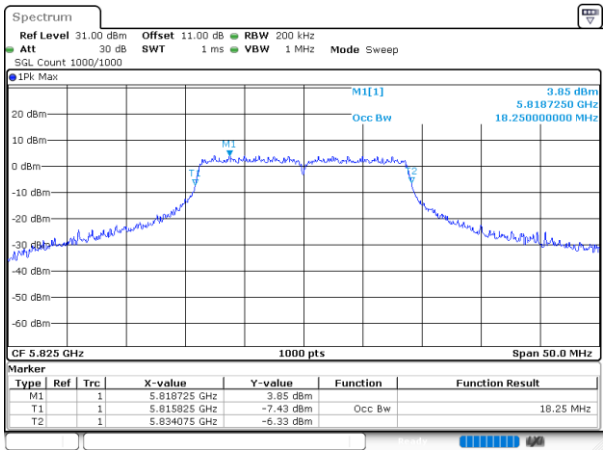
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802.11ac20_5785MHz



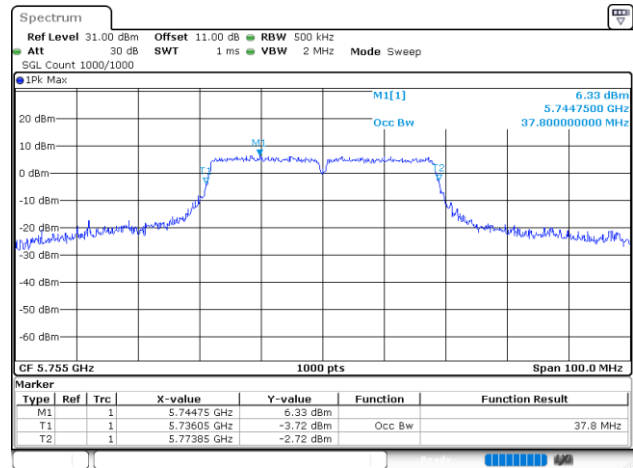
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802.11ac20_5825MHz



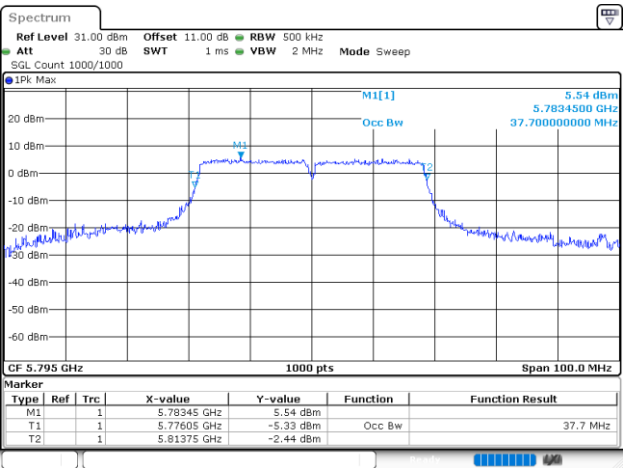
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Date: 13.DEC.2025 18:08:33

802.11ac40_5755MHz



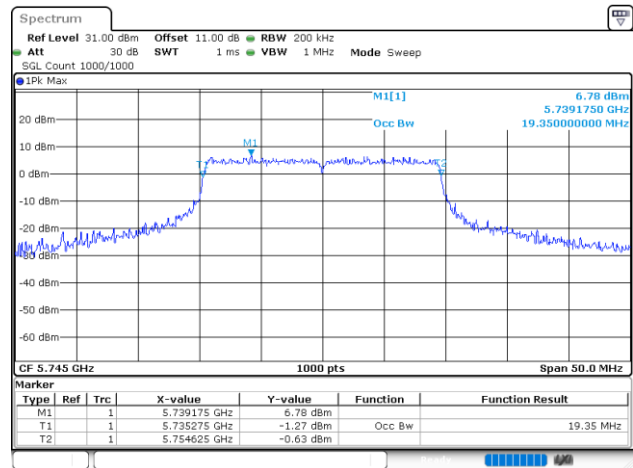
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Date: 13.DEC.2025 18:09:19

802.11ac40_5795MHz



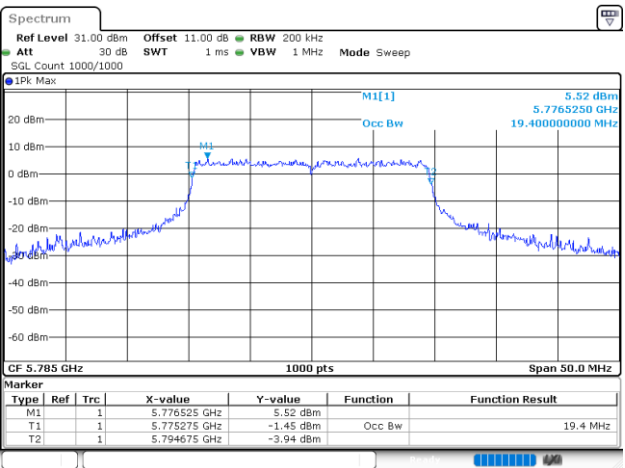
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802.11ax20_5745MHz_RU_Full



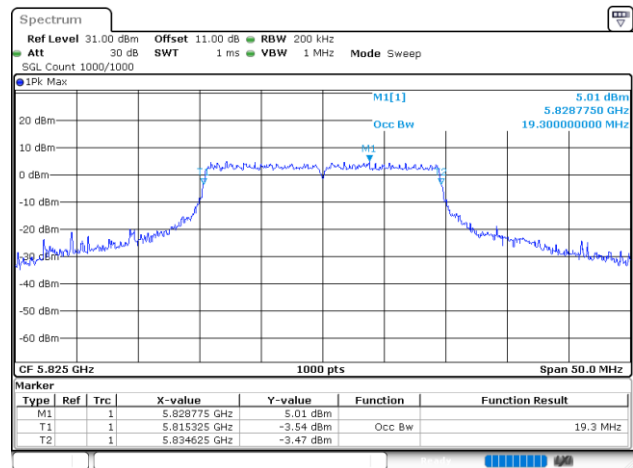
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802.11ax20_5785MHz_RU_Full



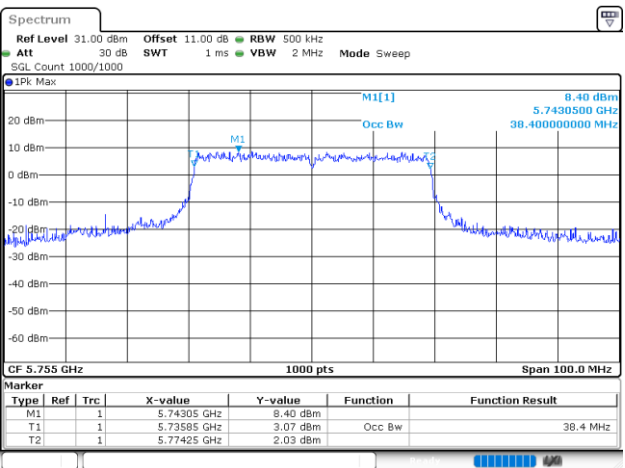
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802.11ax20_5825MHz_RU_Full



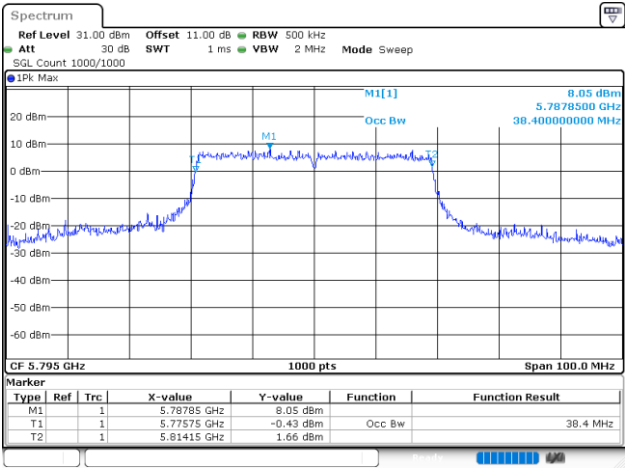
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Date: 13.DEC.2025 18:03:48

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:04:39

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:05:28

Maximum Conducted Output Power

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	16.14	30	Pass
	5785	15.25	30	Pass
	5825	14.46	30	Pass
802.11ac20	5745	16.02	30	Pass
	5785	15.13	30	Pass
	5825	14.43	30	Pass
802.11ac40	5755	15.79	30	Pass
	5795	15.0	30	Pass
802.11ax20_RU_Full	5745	16.24	30	Pass
	5785	15.25	30	Pass
	5825	14.65	30	Pass
802.11ax40_RU_FULL	5755	15.81	30	Pass
	5795	14.77	30	Pass

Power Spectral Density

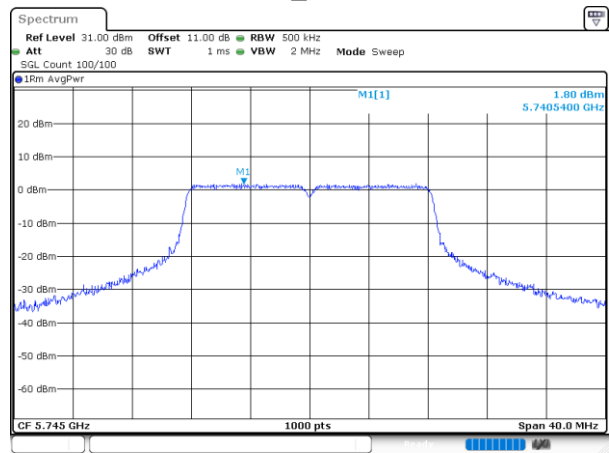
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	1.80	0.38	2.18	30	Pass
	5785	1.06	0.38	1.44	30	Pass
	5825	0.01	0.38	0.39	30	Pass
802.11ac20	5745	1.46	0.34	1.80	30	Pass
	5785	0.62	0.34	0.96	30	Pass
	5825	-0.15	0.34	0.19	30	Pass
802.11ac40	5755	-1.78	0.84	-0.94	30	Pass
	5795	-2.63	0.84	-1.79	30	Pass
802.11ax20_RU_Full	5745	1.14	0.59	1.73	30	Pass
	5785	0.48	0.59	1.07	30	Pass
	5825	-0.63	0.59	-0.04	30	Pass
802.11ax40_RU_FULL	5755	-1.97	0.61	-1.36	30	Pass
	5795	-2.69	0.61	-2.08	30	Pass

Result = Reading + Duty Cycle Factor

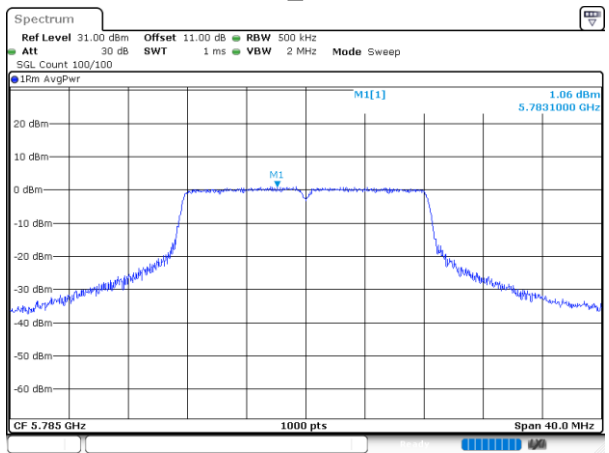
5725-5850MHz

802.11a_5745MHz



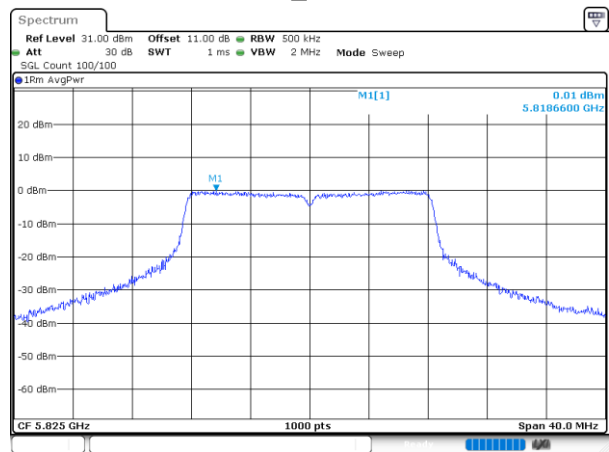
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802.11a_5785MHz



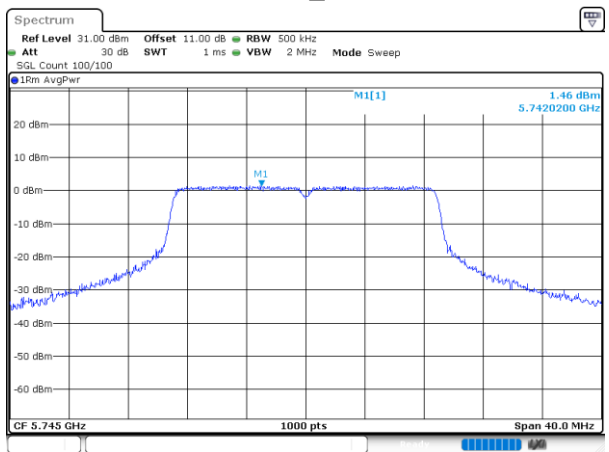
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802.11a_5825MHz



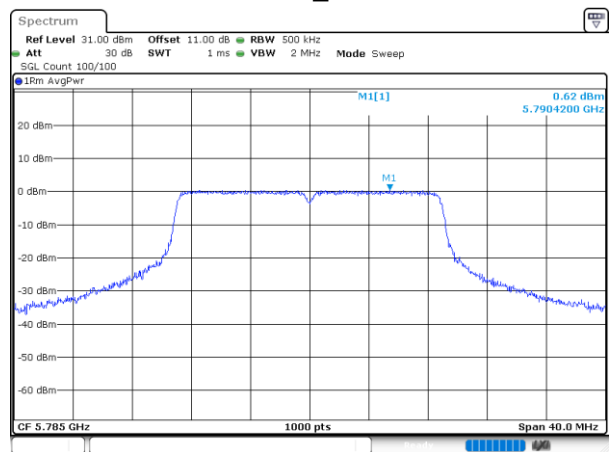
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802.11ac20_5745MHz



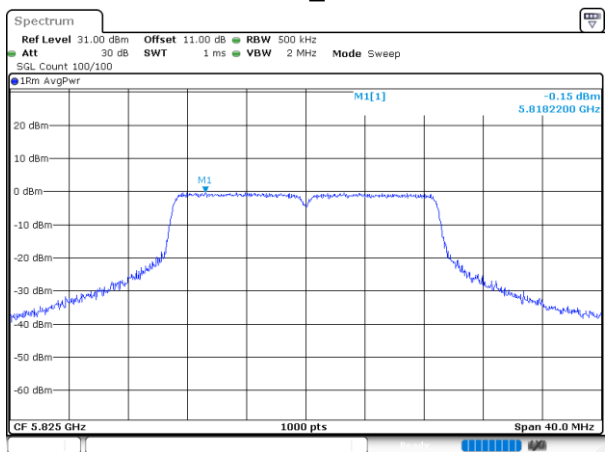
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802.11ac20_5785MHz



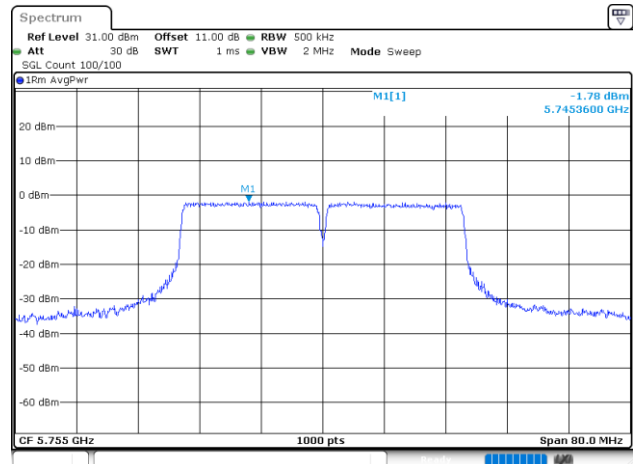
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802.11ac20_5825MHz



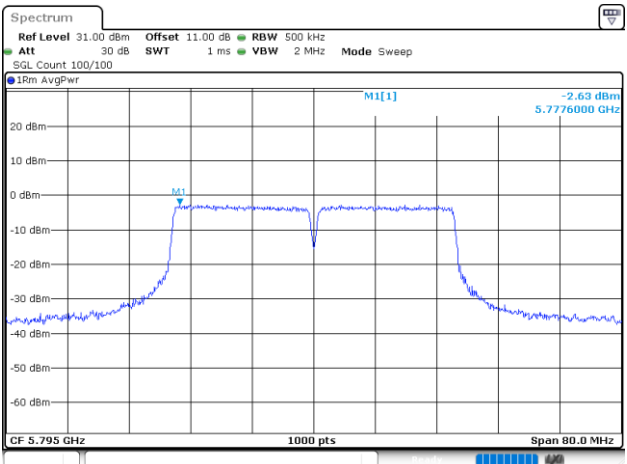
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802.11ac40_5755MHz



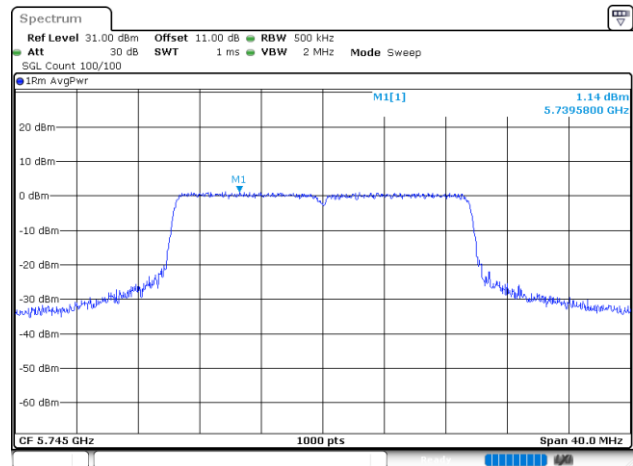
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802.11ac40_5795MHz



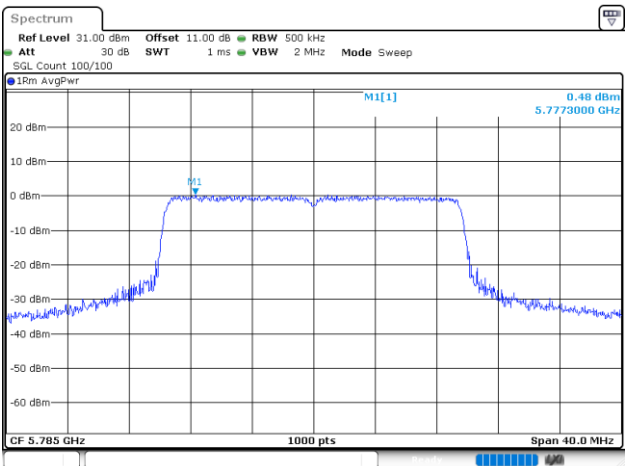
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Date: 13.DEC.2025 18:10:14

802.11ax20_5745MHz_RU_Full



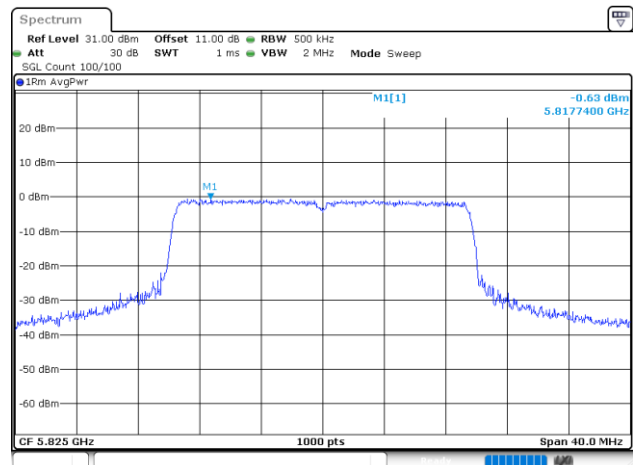
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802.11ax20_5785MHz_RU_Full



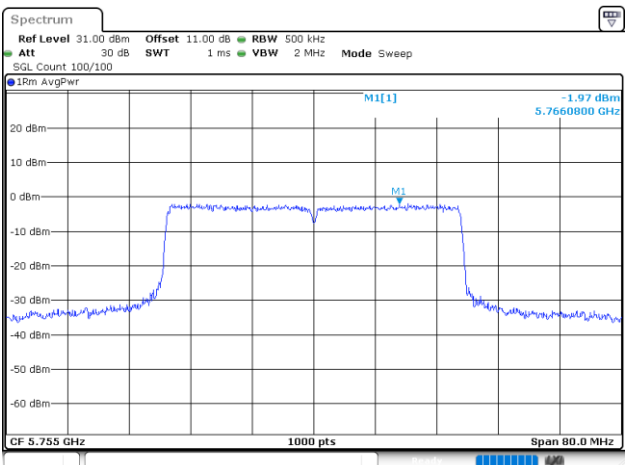
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802.11ax20_5825MHz_RU_Full



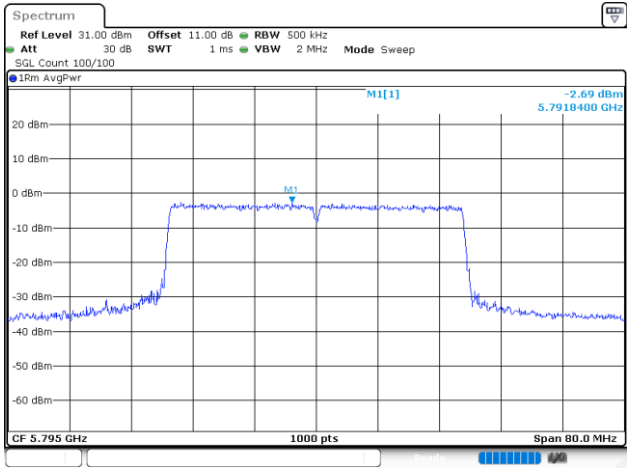
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Date: 13.DEC.2025 18:04:18

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:04:57

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 18:05:47

Duty Cycle

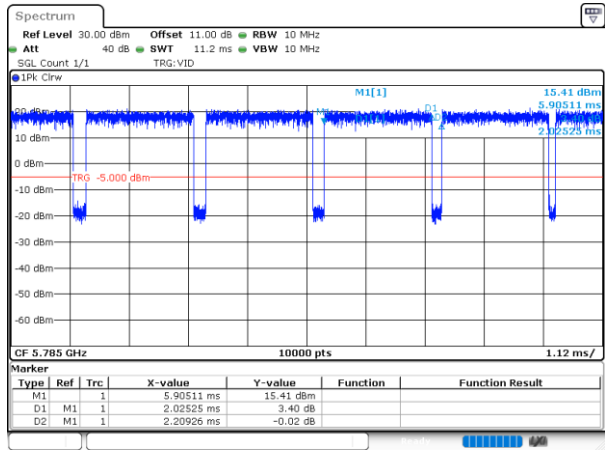
5725-5850MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5785	2.025	2.209	91.67	0.38	494	0.500
802.11ac20	5785	1.890	2.046	92.38	0.34	529	1
802.11ac40	5755	0.934	1.134	82.36	0.84	1071	2
802.11ax20_RU_FULL	5785	1.451	1.661	87.36	0.59	689	1
802.11ax40_RU_FULL	5755	0.749	0.862	86.89	0.61	1335	2

Duty Cycle = Ton/(Ton+Toff)*100%

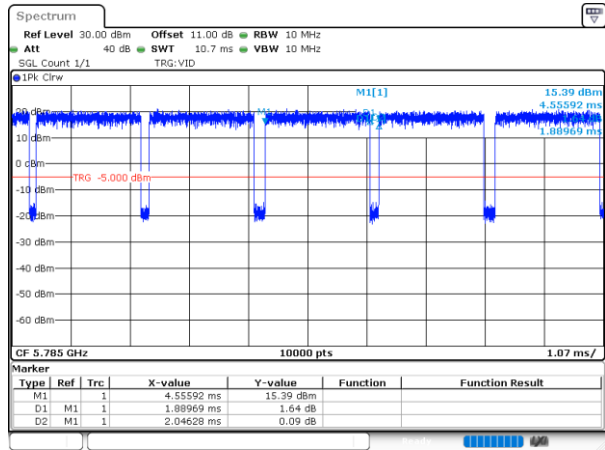
5725-5850MHz

802.11a_5785MHz



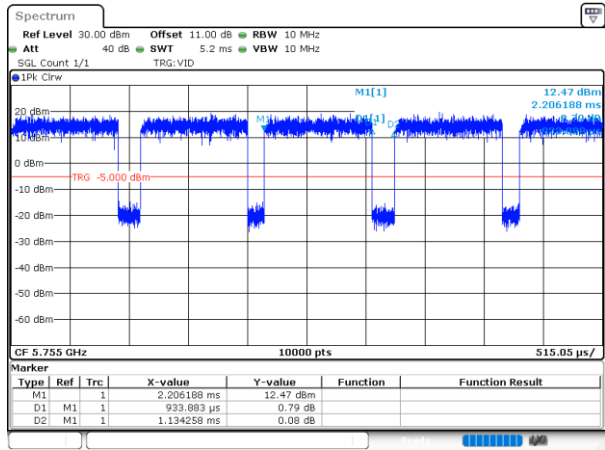
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Date: 13.DEC.2025 17:56:13

802.11ac20_5785MHz



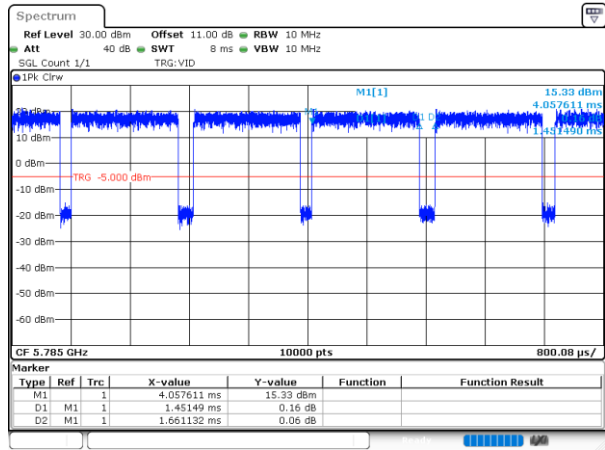
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802.11ac40_5755MHz



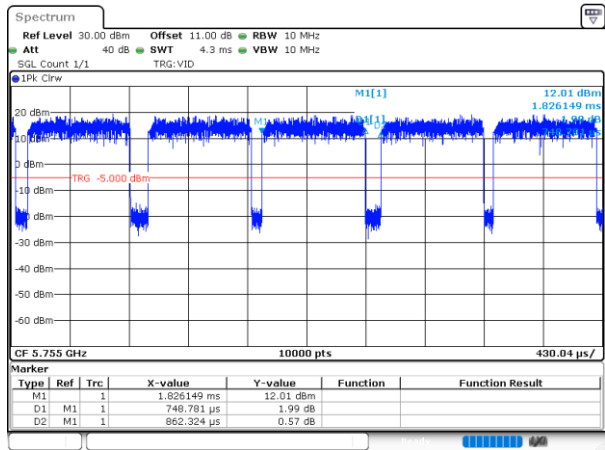
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Date: 13.DEC.2025 17:57:19

802.11ax20_5785MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 17:56:33

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2504Z39370E-RF Tester:Cayde Hou
Date: 13.DEC.2025 17:56:50

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504Z39370E-RF EUT External Photos and Attachment No.2 2504Z39370E-RF EUT Internal Photos.

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2504Z39370E-RFA Test Photos.

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