



TEST REPORT

Report No.: **CTC2025343005**

FCC ID.....: **PX9M133WK002**

Applicant: **Winmate Inc.**

Address.....: 9F, No.111-6, Shing-De Rd., San-Chung District, New Taipei City, 241, Taiwan

Manufacturer.....: Winmate Inc.

Address.....: 9F, No.111-6, Shing-De Rd., San-Chung District, New Taipei City, 241, Taiwan

Product Name: **Rugged Tablet PC**

Trade Mark: WINMATE

Model/Type reference.....: M133WK-5

Listed Model(s).....: M133xxxxxxxxxx, D140, D140xxxxxxxxxx ("x" can be A~Z, a~z, 0~9, Blank, Dash or Slash for marketing purpose only)

Standard: **FCC CFR Title 47 Part 15 Subpart E Section 15.407**

Test Report Form No: CTC-TR-150_A2

Master TRF: Dated 2025-05-12

Date of receipt of test sample.....: May 30, 2025

Date of testing.....: May 30, 2025 ~ Jul. 31, 2025

Date of issue.....: Oct. 09, 2025

Result.....: **PASS**

Compiled by:

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Lucy Lan

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(Printed name+signature)

Totti Zhao

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[Part 15 Subpart E U-NII 6 GHz](#): Unlicensed National Information Infrastructure Devices.

[ANSI C63.10-2020](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

[FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03](#).

[FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01](#).

[FCC KDB 414788 D01 Radiated Test Site v01r01](#).

[FCC KDB 662911 D01 Multiple Transmitter Output v02r01](#).

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2025343005	Oct. 09, 2025	Original



1.3. Test Description

FCC Part 15 Subpart E (15.407)			
Test Item	Standard Section	Result	Test Engineer
Antenna Requirement	15.203	Pass	Marrow
Conducted Emission	15.207	Pass	Marrow
26dB Bandwidth & 99% Bandwidth	15.407(a)	Pass	Marrow
Maximum e.i.r.p.	15.407(a)	Pass	Marrow
Maximum Power Spectral Density (e.i.r.p.)	15.407(a)	Pass	Marrow
Transmitter Radiated Spurious Emission& Band Edge Emissions	15.407(b) 15.205(a) 15.209(a)	Pass	Marrow
In-Band Emission (Mask)	15.407(b)	Pass	Marrow
Contention Based Protocol	15.407(d)	Pass	see report 2590623R-RFUSV1 5S-A
Frequency Stability	15.407(g)	Pass	Marrow

Note:

1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhuhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 951311, Aug 26, 2017.



1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
Emission Bandwidth	$\pm 0.0196\%$	(1)
Maximum Conduct Output Power	$\pm 0.766\text{dB}$	(1)
Power Spectral Density	$\pm 1.22\text{dB}$	(1)
Band Edge Measurements	$\pm 1.328\text{dB}$	(1)
Unwanted Emissions Measurement	9kHz-1GHz: $\pm 0.746\text{dB}$ 1GHz-26GHz: $\pm 1.328\text{dB}$	(1)
Frequency Stability	$\pm 2.76\%$	(1)
Conducted Emissions 9kHz~30MHz	$\pm 3.08\text{ dB}$	(1)
Radiated Emissions 30~1000MHz	$\pm 4.51\text{ dB}$	(1)
Radiated Emissions 1~18GHz	$\pm 5.84\text{ dB}$	(1)
Radiated Emissions 18~40GHz	$\pm 6.12\text{ dB}$	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

1.6. Environmental Conditions

Normal Condition	Temperature	15 °C to 35 °C
	Relative Humidity	20 % to 75 %
	Air Pressure	101 kPa
	Voltage	The normal test voltage for the equipment shall be the nominal voltage for which the equipment was designed.
Extreme Condition	Temperature	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer.
	Voltage	Measurements shall be made over the extremes of the operating temperature range as declared by the manufacturer.

Normal Condition	T_N =Normal Temperature	25 °C
Extreme Condition	T_L =Lower Temperature	-20 °C
	T_H =Higher Temperature	60 °C

CTC Laboratories, Inc.

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TRF No: CTC-TR-150_A2

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Winmate Inc.
Address:	9F, No.111-6, Shing-De Rd., San-Chung District, New Taipei City, 241, Taiwan
Manufacturer:	Winmate Inc.
Address:	9F, No.111-6, Shing-De Rd., San-Chung District, New Taipei City, 241, Taiwan
Factory:	Winmate Inc.
Address:	9F, No.111-6, Shing-De Rd., San-Chung District, New Taipei City, 241, Taiwan

2.2. General Description of EUT

Product Name:	Rugged Tablet PC				
Trade Mark:	WINMATE				
Model/Type reference:	M133WK-5				
Listed Model(s):	M133xxxxxxxxxx, D140, D140xxxxxxxxxx (“x” can be A~Z, a~z,0~9, Blank, Dash or Slash for marketing purpose only)				
Model Difference:	Difference is only model name, trademark, and colour (for marketing).				
Sample ID:	CTC250521-005-S004				
RF Module	BE200NGW				
Power Supply:	DC 20V 3.5A from AC/DC Adapter DC 10.9V 6700mAh 73.03Wh from Rechargeable Li-ion Battery Pack				
Adapter Model	A20-065N3A Input: 100-240V~ 50/60Hz 1.6A Output: 5V=3A 15W/ 9V=3A/ 12V=3A/ 15V=3A/ 20V=3.25A 65W				
Hardware Version:	M133DRT				
Software Version:	V250428				
6G Wi-Fi					
Operation Band:	☒ U-NII-5	☒ U-NII-6			
Operation Frequency:	U-NII-5	UNII-5: 5925 MHz ~ 6425 MHz			
	U-NII-6	UNII-6: 6425 MHz ~ 6525 MHz			
Support Bandwidth:	802.11ax	☒ 20MHz	☒ 40MHz	☒ 80MHz	☒ 160MHz
Modulation:	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)				
Device Type:	☒ 6XD: 15E 6 GHz Low-power Indoor client. These devices are controlled by a low-power indoor access point (P1) and operate in U-NII bands 5-8. (For FCC) ☒ Low-power client device. (For IC)				
Antenna 1&2 Type:	Monopole Antenna				
U-NII-5 Antenna Gain:	Ant1: 3.71dBi; Ant2: 3.56dBi				
U-NII-6Antenna Gain:	Ant1: 3.36dBi; Ant2: 2.56dBi				

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2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	Version	/	/
DRTU	DRTU.06931.23.70.0	/	/



2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting.

Operation Frequency List:

☑ UNII-5					
☑ IEEE 802.11ax(HE20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5955	33	6115	65	6275
5	5975	37	6135	69	6295
9	5995	41	6155	73	6315
13	6015	45	6175	77	6335
17	6035	49	6195	81	6355
21	6055	53	6215	85	6375
25	6075	57	6235	89	6395
29	6095	61	6255	93	6415

☑ UNII-5					
☑ IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	5965	35	6125	67	6285
11	6005	43	6165	75	6325
19	6045	51	6205	83	6365
27	6085	59	6245	91	6405

☑ UNII-5					
☑ IEEE 802.11ax(HE80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	39	6145	71	6305
23	6065	55	6225	87	6385

☑ UNII-5					
☑ IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
15	6025	47	6185	79	6345

☑ UNII-6					
☑ IEEE 802.11ax(HE20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
97	6435	105	6475	113	6515
101	6455	109	6495		

☑ UNII-6					
☑ IEEE 802.11ax(HE40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
99	6445	107	6485	115	6525

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☑UNII-6					
☑IEEE 802.11ax(HE80)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
103	6465				

☑UNII-6					
☑IEEE 802.11ax(HE160)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
111	6505				

Test channel is below:

Ch. #		UNII-5	UNII-6
		5925-6425 MHz	6425-6525 MHz
		20M BW	20M BW
L	Low	001	097
M	Middle	045	105
H	High	093	113
Straddle		-	-

Ch. #		UNII-5	UNII-6
		5925-6425 MHz	6425-6525 MHz
		40M BW	40M BW
L	Low	003	099
M	Middle	043	-
H	High	091	107
Straddle		-	115

Ch. #		UNII-5	UNII-6
		5925-6425 MHz	6425-6525 MHz
		80M BW	80M BW
L	Low	007	103
M	Middle	039	
H	High	087	
Straddle		-	-

Ch. #		UNII-5	UNII-6
		5925-6425 MHz	6425-6525 MHz
		160M BW	160M BW
L	Low	015	-
M	Middle	047	
H	High	079	
Straddle		-	111

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U-NII-5 Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	NA	NA	Monopole Antenna	IPEX	3.71
2	NA	NA	Monopole Antenna	IPEX	3.56

This EUT supports MIMO 2X2 with the unequal antenna gain, and any transmit signals are correlated with each other.

According to KDB 662911 D01, Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$ dBi, that is Directional Gain = $10 \log[((10^{(3.71/20)} + 10^{(3.56/20)})^2) / 2] = 6.68 \text{ dBi}$.

U-NII-6 Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	NA	NA	Monopole Antenna	IPEX	2.36
2	NA	NA	Monopole Antenna	IPEX	2.56

This EUT supports MIMO 2X2 with the unequal antenna gain, and any transmit signals are correlated with each other.

According to KDB 662911 D01, Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$ dBi, that is Directional Gain = $10 \log[((10^{(2.36/20)} + 10^{(2.56/20)})^2) / 2] = 5.47 \text{ dBi}$.

Data Rated:

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Test Mode	Data Rate (worst mode)
802.11ax(HE20)/ 802.11ax(HE40)/ 802.11ax(HE80)/ 802.11ax(HE160)	HE-MCS0

Test Mode:

For RF test items:
1. The engineering test program was provided and enabled to make EUT continuous transmit. 2. IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.
For Contention Based Protocol:
The EUT was Configured to be in normally transmitting mode with a constant duty cycle.



power setting:

mode	channel	power setting
		MIMO
AX20	5955	4.5
	6175	3
	6415	4
	6435	3
	6475	3.625
	6515	4
AX40	5965	6
	6165	6
	6405	7.125
	6445	5
	6485	6
AX80	5985	7.125
	6145	7.125
	6385	7.125
	6465	7.125
AX160	6025	7.125
	6185	7.125
	6345	7.125



2.5. Measurement Instruments List

RF Test System – SRD						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 13, 2024	Dec. 12, 2025
2	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 13, 2024	Dec. 12, 2025
3	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 13, 2024	Dec. 12, 2025
4	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 25, 2025	Mar. 24, 2026
5	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 25, 2025	Mar. 24, 2026
6	Wideband Radio Communication Tester	R&S	CMW500	102257	Oct. 24, 2024	Oct. 23, 2025
7	RF Control Unit	Tonscend	JS0806-2	/	Dec. 13, 2024	Dec. 12, 2025
8	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 25, 2025	Mar. 24, 2026
9	RF Cable	HUBER+SUHNER	SUCOFLEX101PE	RF-08	Apr. 16, 2025	Apr. 15, 2026
Test Software						
Name		Manufacturer			Software Version	
JS1120-3		Tonscend			V2.6.88.0346	

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 25, 2024	Dec. 24, 2025
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Sep. 26, 2024	Sep. 25, 2025
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 13, 2024	Dec. 12, 2025
4	Broadband Amplifier	Schwarzbeck	BBV9743B	259	Dec. 13, 2024	Dec. 12, 2025
5	Mirowave Broadband Amplifier	Schwarzbeck	BBV9718C	111	Dec. 13, 2024	Dec. 12, 2025
6	RE33L-001	COMM	/	014 (9kHz-1GHz)	Feb. 09, 2025	Feb. 08, 2026
7	RE33L-002	COMM	/	015 (9kHz-1GHz)	Feb. 09, 2025	Feb. 08, 2026
8	RE33H-001	SUHB SUCOFLEX	/	016 (1GHz-18GHz)	Feb. 09, 2025	Feb. 08, 2026
9	RE33H-002	HUBENR	/	017 (1GHz-18GHz)	Feb. 09, 2025	Feb. 08, 2026
10	RE33H-003	HUBENR	/	018 (1GHz-18GHz)	Feb. 09, 2025	Feb. 08, 2026
11	RE33H-003	HUBENR	/	019 (18GHz-40GHz)	Feb. 09, 2025	Feb. 08, 2026
12	3m chamber 3	YIHENG	EE106	/	Aug. 29, 2023	Aug. 28, 2026
13	SHF-EHF Horn Antenna	Schwarzbeck	BBHA 9170	013551	Dec. 13, 2024	Dec. 12, 2025
14	Low noise Amplifier	Tonscend	TAP180040048	AP24C8060348	Dec. 13, 2024	Dec. 12, 2025

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Test Software		
Name	Manufacturer	Software Version
EZ-EMC	FARA	FA-03A2

Conducted emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	LISN	R&S	ENV216	101112	Dec. 13, 2024	Dec. 12, 2025
2	LISN	R&S	ENV216	101113	Dec. 13, 2024	Dec. 12, 2025
3	EMI Test Receiver	R&S	ESCI	100524	Dec. 13, 2024	Dec. 12, 2025
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 13, 2024	Dec. 12, 2025
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 13, 2024	Dec. 12, 2025
6	CE-001	COMM	/	001	Feb. 09, 2025	Feb. 08, 2026

Test Software		
Name	Manufacturer	Software Version
EMC32	R&S	6.10.10

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

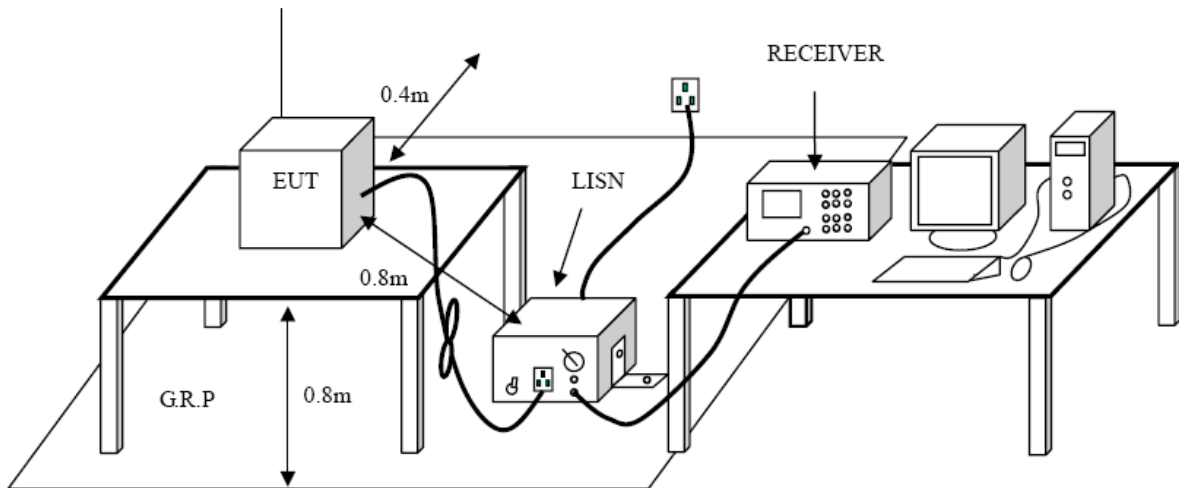
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207 / RSS-Gen 8.8

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

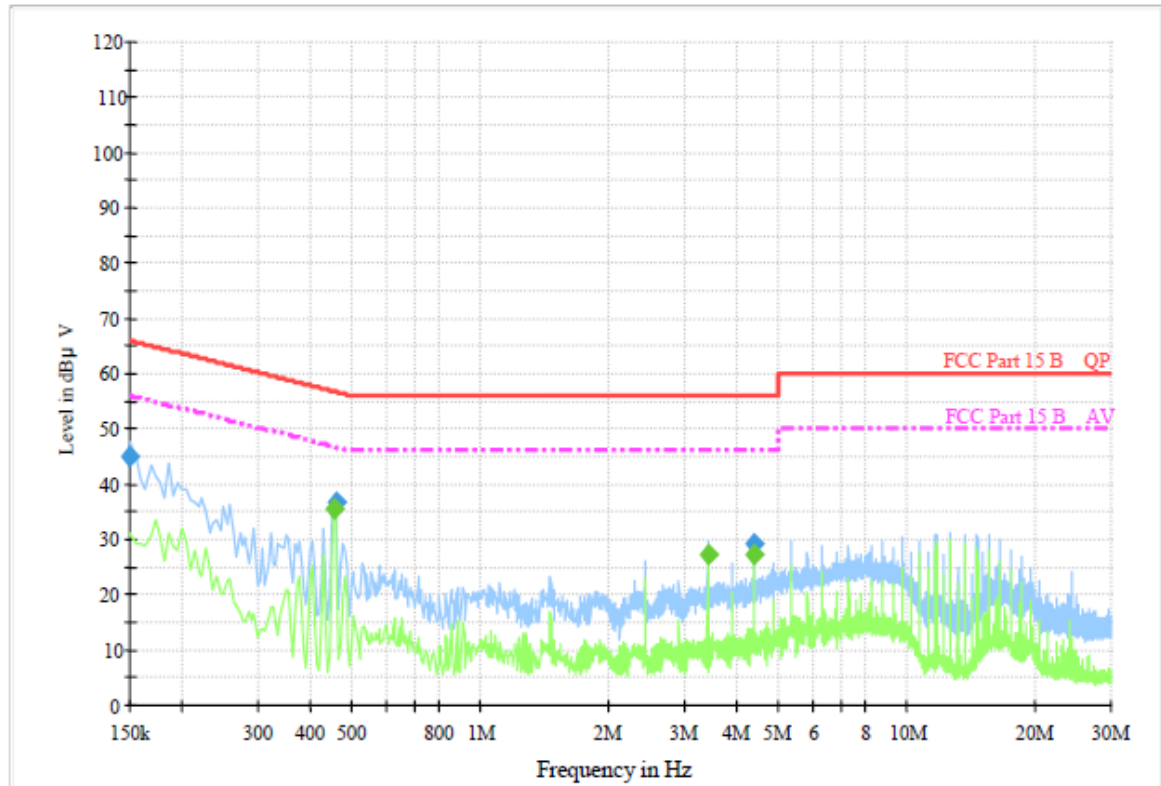
1. The EUT was setup according to ANSI C63.10:2020 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Voltage:	AC 120V/60Hz
Terminal:	Line
Remark:	Only worse case is reported

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.150000	45.2	1000.00	9.000	On	L1	9.4	20.8	66.0	
0.456000	36.7	1000.00	9.000	On	L1	9.4	20.1	56.8	
4.371000	29.0	1000.00	9.000	On	L1	9.4	27.0	56.0	

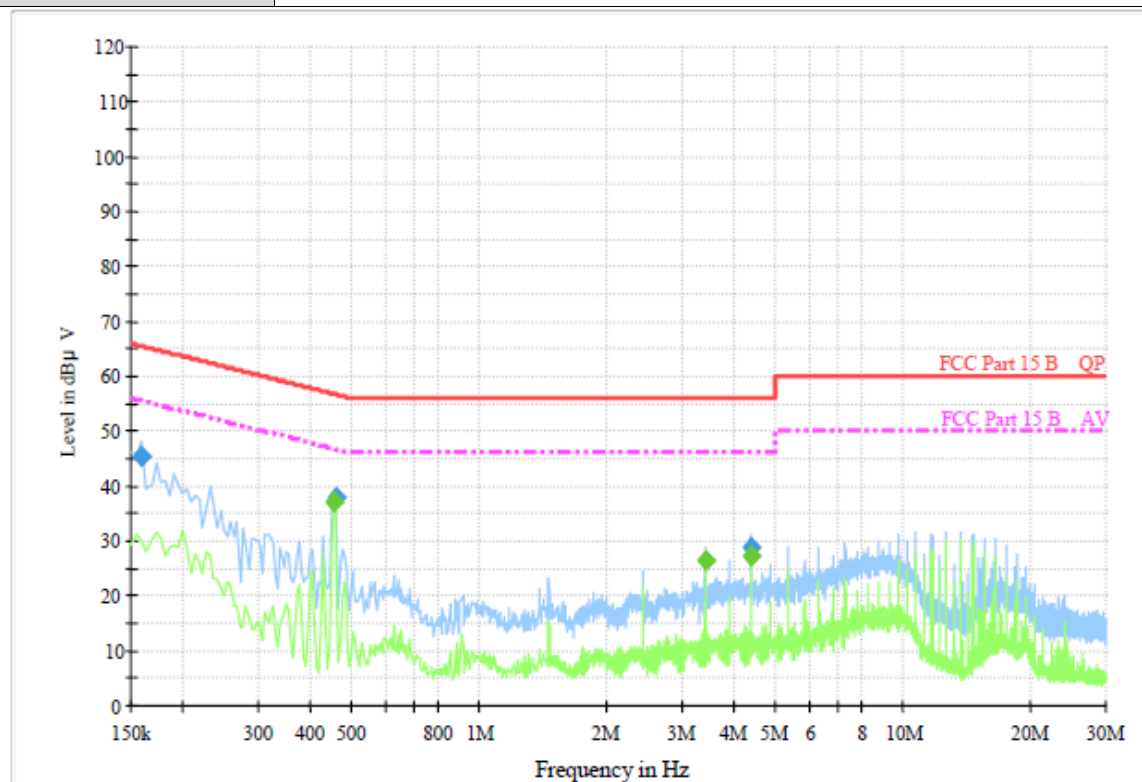
Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.451500	35.7	1000.00	9.000	On	L1	9.4	11.1	46.8	
3.399000	27.3	1000.00	9.000	On	L1	9.4	18.7	46.0	
4.371000	27.4	1000.00	9.000	On	L1	9.4	18.6	46.0	

Emission Level = Read Level + Correct Factor



Test Voltage:	AC 120V/60Hz
Terminal:	Neutral
Remark:	Only worse case is reported



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.159000	45.5	1000.00	9.000	On	N	9.4	20.0	65.5	
0.456000	38.0	1000.00	9.000	On	N	9.6	18.8	56.8	
4.371000	28.7	1000.00	9.000	On	N	9.5	27.3	56.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBμ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμ V)	Comment
0.451500	37.0	1000.00	9.000	On	N	9.6	9.8	46.8	
3.399000	26.6	1000.00	9.000	On	N	9.5	19.4	46.0	
4.371000	27.2	1000.00	9.000	On	N	9.5	18.8	46.0	

Emission Level = Read Level + Correct Factor

3.2. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209 / RSS-Gen 8.9.

In case the emission fall within the restricted band specified on 15.205(a)&RSS-Gen 8.10.

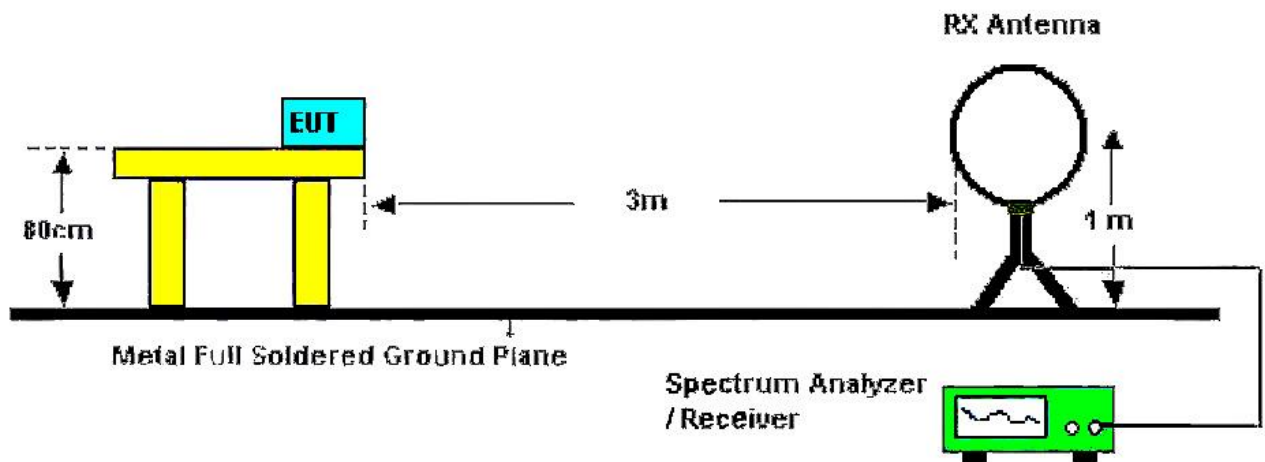
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Range (MHz)	dBμV/m (at 3 meters)	
	Peak	Average
Above 1000	74	54

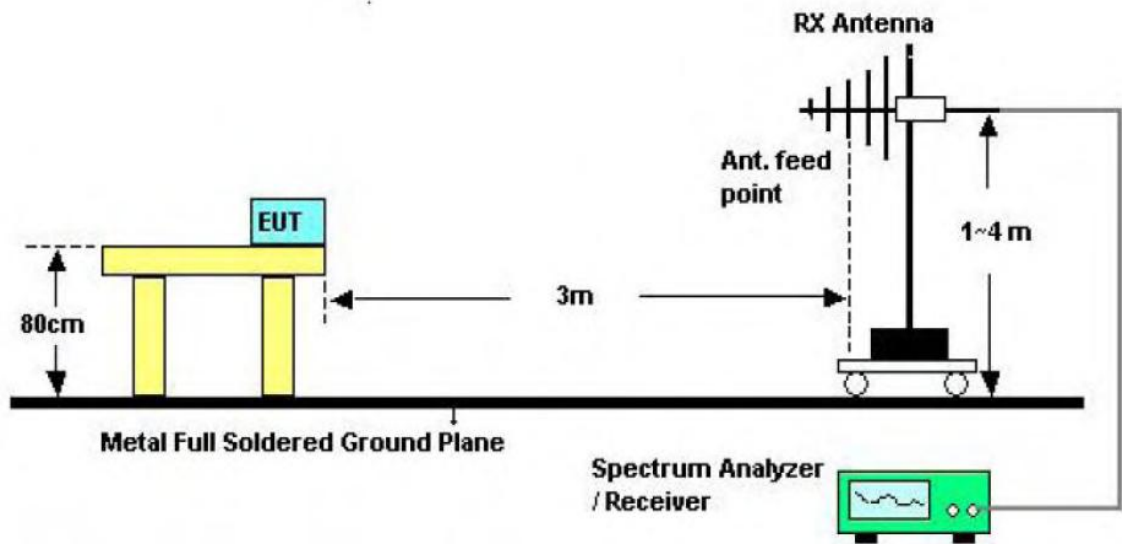
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

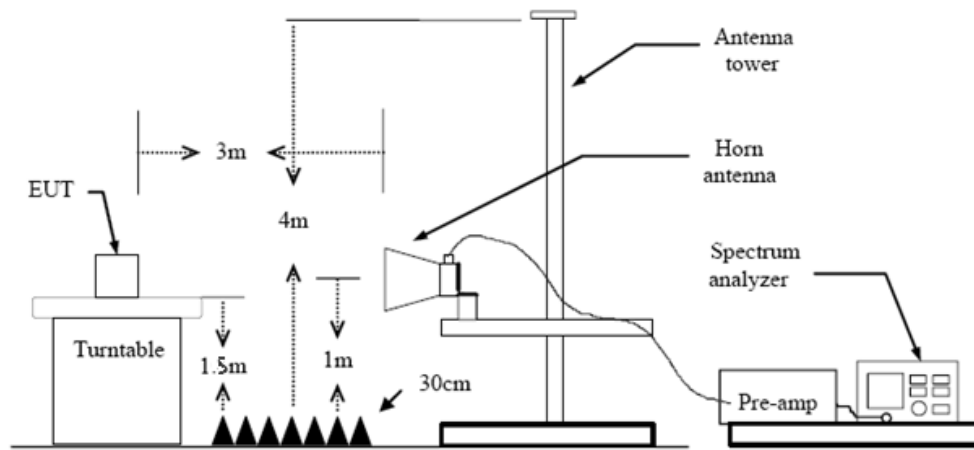
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup



Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2020.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) 9k – 150kHz:
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (3) 0.15M – 30MHz:
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (4) 30M - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max holdIf the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- (5) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 kHz~30 MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

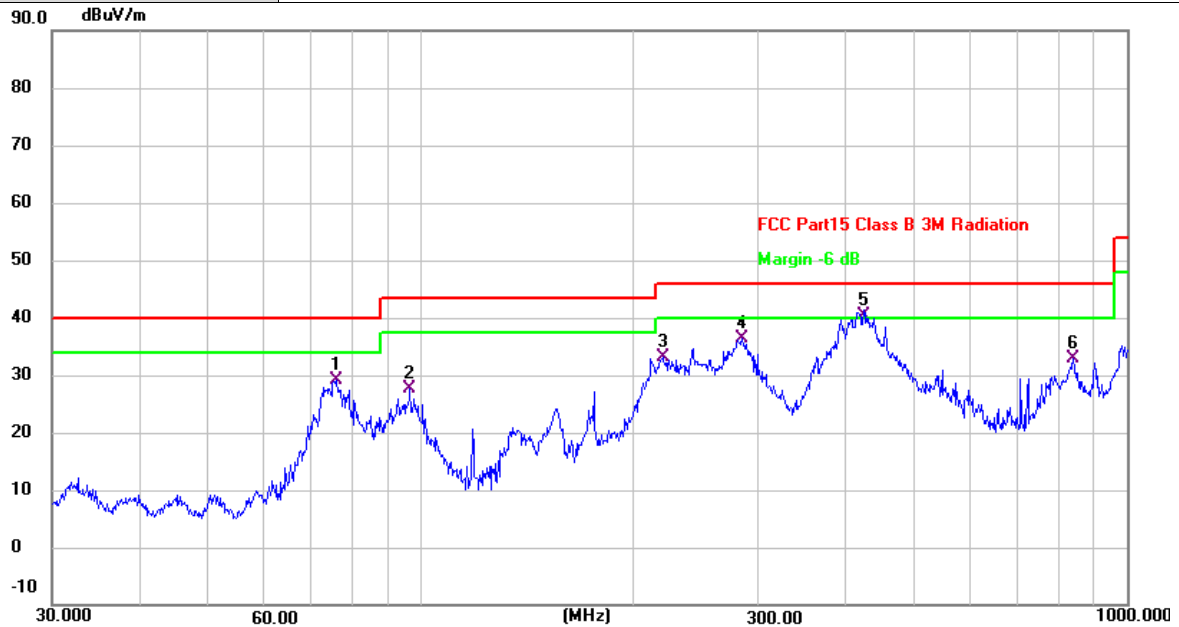
- Note: 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Pre-scan all antenna, only show the test data for worse case antenna on the test report.



30MHz-1GHz

Test Voltage:	DC 10.9V 6700mAh 73.03Wh from Rechargeable Li-ion Battery Pack
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Ant. No.	MIMO
Ant. Pol.	Horizontal
Test Mode:	TX 802.11ax (HE20) Mode 5955MHz (UNII-5)
Remark:	Only worse case is reported.



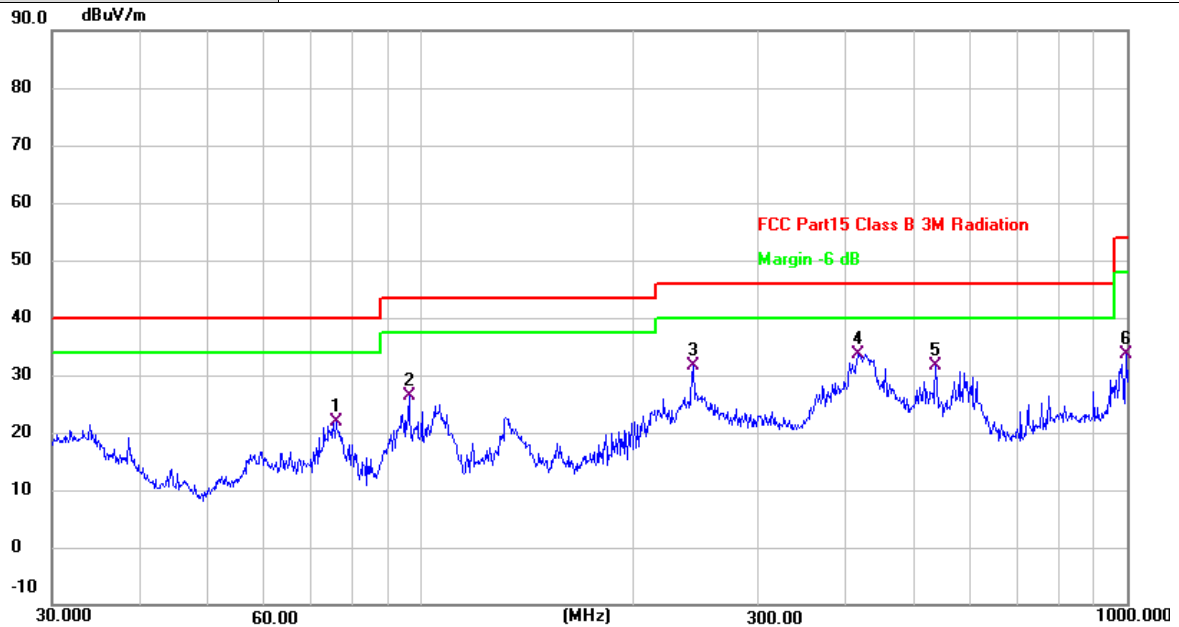
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	75.9773	50.47	-21.33	29.14	40.00	-10.86	QP
2	96.4362	49.39	-21.86	27.53	43.50	-15.97	QP
3	219.8449	53.45	-20.29	33.16	46.00	-12.84	QP
4	284.9767	53.81	-17.53	36.28	46.00	-9.72	QP
5 *	423.5403	54.28	-13.88	40.40	46.00	-5.60	QP
6	839.1818	38.24	-5.45	32.79	46.00	-13.21	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
2. Margin value = Level - Limit value



Ant. No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax (HE20) Mode 5955MHz (UNII-5)
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	75.7114	43.30	-21.30	22.00	40.00	-18.00	QP
2	96.0986	48.23	-21.86	26.37	43.50	-17.13	QP
3	243.3772	50.89	-19.30	31.59	46.00	-14.41	QP
4 *	416.1791	47.79	-14.10	33.69	46.00	-12.31	QP
5	535.7073	42.41	-10.82	31.59	46.00	-14.41	QP
6	996.4996	36.41	-2.80	33.61	54.00	-20.39	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value



Above 1GHz

Ant. No.	MIMO						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax (HE20) Mode 5955MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax (HE20) Mode 5955MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax (HE20) Mode 6175MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12349.422</td><td>38.29</td><td>15.64</td><td>53.93</td><td>74.00</td><td>-20.07</td><td>peak</td></tr><tr><td>2 *</td><td>12350.319</td><td>23.38</td><td>15.65</td><td>39.03</td><td>54.00</td><td>-14.97</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	12349.422	38.29	15.64	53.93	74.00	-20.07	peak	2 *	12350.319	23.38	15.65	39.03	54.00	-14.97	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	12349.422	38.29	15.64	53.93	74.00	-20.07	peak																								
2 *	12350.319	23.38	15.65	39.03	54.00	-14.97	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax (HE20) Mode 6175MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>12349.323</td><td>23.32</td><td>15.64</td><td>38.96</td><td>54.00</td><td>-15.04</td><td>AVG</td></tr><tr><td>2</td><td>12349.389</td><td>37.84</td><td>15.64</td><td>53.48</td><td>74.00</td><td>-20.52</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	12349.323	23.32	15.64	38.96	54.00	-15.04	AVG	2	12349.389	37.84	15.64	53.48	74.00	-20.52	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	12349.323	23.32	15.64	38.96	54.00	-15.04	AVG																								
2	12349.389	37.84	15.64	53.48	74.00	-20.52	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax (HE20) Mode 6415MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12829.113</td><td>37.25</td><td>16.77</td><td>54.02</td><td>74.00</td><td>-19.98</td><td>peak</td></tr><tr><td>2 *</td><td>12830.531</td><td>23.03</td><td>16.77</td><td>39.80</td><td>54.00</td><td>-14.20</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12829.113	37.25	16.77	54.02	74.00	-19.98	peak	2 *	12830.531	23.03	16.77	39.80	54.00	-14.20	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12829.113	37.25	16.77	54.02	74.00	-19.98	peak																								
2 *	12830.531	23.03	16.77	39.80	54.00	-14.20	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax (HE20) Mode 6415MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>12829.213</td><td>22.78</td><td>16.77</td><td>39.55</td><td>54.00</td><td>-14.45</td><td>AVG</td></tr><tr><td>2</td><td>12830.703</td><td>36.69</td><td>16.77</td><td>53.46</td><td>74.00</td><td>-20.54</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	12829.213	22.78	16.77	39.55	54.00	-14.45	AVG	2	12830.703	36.69	16.77	53.46	74.00	-20.54	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	12829.213	22.78	16.77	39.55	54.00	-14.45	AVG																								
2	12830.703	36.69	16.77	53.46	74.00	-20.54	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE40) Mode 5965MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>11929.644</td><td>23.23</td><td>15.25</td><td>38.48</td><td>54.00</td><td>-15.52</td><td>AVG</td></tr><tr><td>2</td><td>11930.179</td><td>36.73</td><td>15.26</td><td>51.99</td><td>74.00</td><td>-22.01</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	11929.644	23.23	15.25	38.48	54.00	-15.52	AVG	2	11930.179	36.73	15.26	51.99	74.00	-22.01	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	11929.644	23.23	15.25	38.48	54.00	-15.52	AVG																								
2	11930.179	36.73	15.26	51.99	74.00	-22.01	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE40) Mode 5965MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE40) Mode 6165MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>12329.266</td><td>23.31</td><td>15.63</td><td>38.94</td><td>54.00</td><td>-15.06</td><td>AVG</td></tr><tr><td>2</td><td>12330.050</td><td>38.41</td><td>15.63</td><td>54.04</td><td>74.00</td><td>-19.96</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	12329.266	23.31	15.63	38.94	54.00	-15.06	AVG	2	12330.050	38.41	15.63	54.04	74.00	-19.96	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	12329.266	23.31	15.63	38.94	54.00	-15.06	AVG																								
2	12330.050	38.41	15.63	54.04	74.00	-19.96	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE40) Mode 6165MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12329.038</td><td>38.48</td><td>15.63</td><td>54.11</td><td>74.00</td><td>-19.89</td><td>peak</td></tr><tr><td>2 *</td><td>12329.733</td><td>23.14</td><td>15.63</td><td>38.77</td><td>54.00</td><td>-15.23</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12329.038	38.48	15.63	54.11	74.00	-19.89	peak	2 *	12329.733	23.14	15.63	38.77	54.00	-15.23	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12329.038	38.48	15.63	54.11	74.00	-19.89	peak																								
2 *	12329.733	23.14	15.63	38.77	54.00	-15.23	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE40) Mode 6405MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12809.834</td><td>36.76</td><td>16.74</td><td>53.50</td><td>74.00</td><td>-20.50</td><td>peak</td></tr><tr><td>2 *</td><td>12809.907</td><td>23.04</td><td>16.74</td><td>39.78</td><td>54.00</td><td>-14.22</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12809.834	36.76	16.74	53.50	74.00	-20.50	peak	2 *	12809.907	23.04	16.74	39.78	54.00	-14.22	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12809.834	36.76	16.74	53.50	74.00	-20.50	peak																								
2 *	12809.907	23.04	16.74	39.78	54.00	-14.22	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE40) Mode 6405MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12809.399</td><td>37.07</td><td>16.74</td><td>53.81</td><td>74.00</td><td>-20.19</td><td>peak</td></tr><tr><td>2 *</td><td>12810.901</td><td>22.71</td><td>16.74</td><td>39.45</td><td>54.00</td><td>-14.55</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12809.399	37.07	16.74	53.81	74.00	-20.19	peak	2 *	12810.901	22.71	16.74	39.45	54.00	-14.55	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12809.399	37.07	16.74	53.81	74.00	-20.19	peak																								
2 *	12810.901	22.71	16.74	39.45	54.00	-14.55	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE80) Mode 5985MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>11969.364</td><td>38.35</td><td>15.36</td><td>53.71</td><td>74.00</td><td>-20.29</td><td>peak</td></tr><tr><td>2 *</td><td>11970.661</td><td>23.43</td><td>15.37</td><td>38.80</td><td>54.00</td><td>-15.20</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	11969.364	38.35	15.36	53.71	74.00	-20.29	peak	2 *	11970.661	23.43	15.37	38.80	54.00	-15.20	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	11969.364	38.35	15.36	53.71	74.00	-20.29	peak																								
2 *	11970.661	23.43	15.37	38.80	54.00	-15.20	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE80) Mode 5985MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE80) Mode 6145MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12290.393</td><td>37.44</td><td>15.62</td><td>53.06</td><td>74.00</td><td>-20.94</td><td>peak</td></tr><tr><td>2 *</td><td>12290.661</td><td>23.42</td><td>15.62</td><td>39.04</td><td>54.00</td><td>-14.96</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12290.393	37.44	15.62	53.06	74.00	-20.94	peak	2 *	12290.661	23.42	15.62	39.04	54.00	-14.96	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12290.393	37.44	15.62	53.06	74.00	-20.94	peak																								
2 *	12290.661	23.42	15.62	39.04	54.00	-14.96	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE80) Mode 6145MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>12289.797</td><td>23.10</td><td>15.62</td><td>38.72</td><td>54.00</td><td>-15.28</td><td>AVG</td></tr><tr><td>2</td><td>12290.288</td><td>37.62</td><td>15.62</td><td>53.24</td><td>74.00</td><td>-20.76</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	12289.797	23.10	15.62	38.72	54.00	-15.28	AVG	2	12290.288	37.62	15.62	53.24	74.00	-20.76	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	12289.797	23.10	15.62	38.72	54.00	-15.28	AVG																								
2	12290.288	37.62	15.62	53.24	74.00	-20.76	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE80) Mode 6385MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	12769.845	22.57	16.62	39.19	54.00	-14.81	AVG
2	12770.042	37.98	16.62	54.60	74.00	-19.40	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE80) Mode 6385MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	12770.591	22.91	16.62	39.53	54.00	-14.47	AVG
2	12770.627	37.14	16.62	53.76	74.00	-20.24	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE160) Mode 6025MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12049.697</td><td>38.03</td><td>15.52</td><td>53.55</td><td>74.00</td><td>-20.45</td><td>peak</td></tr><tr><td>2 *</td><td>12049.809</td><td>23.50</td><td>15.52</td><td>39.02</td><td>54.00</td><td>-14.98</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	12049.697	38.03	15.52	53.55	74.00	-20.45	peak	2 *	12049.809	23.50	15.52	39.02	54.00	-14.98	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	12049.697	38.03	15.52	53.55	74.00	-20.45	peak																								
2 *	12049.809	23.50	15.52	39.02	54.00	-14.98	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE160) Mode 6025MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE160) Mode 6185MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12369.037</td><td>38.42</td><td>15.66</td><td>54.08</td><td>74.00</td><td>-19.92</td><td>peak</td></tr><tr><td>2 *</td><td>12369.581</td><td>23.37</td><td>15.66</td><td>39.03</td><td>54.00</td><td>-14.97</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12369.037	38.42	15.66	54.08	74.00	-19.92	peak	2 *	12369.581	23.37	15.66	39.03	54.00	-14.97	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12369.037	38.42	15.66	54.08	74.00	-19.92	peak																								
2 *	12369.581	23.37	15.66	39.03	54.00	-14.97	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE160) Mode 6185MHz (UNII-5)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE160) Mode 6345MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12690.270</td><td>38.28</td><td>16.33</td><td>54.61</td><td>74.00</td><td>-19.39</td><td>peak</td></tr><tr><td>2 *</td><td>12690.520</td><td>23.48</td><td>16.33</td><td>39.81</td><td>54.00</td><td>-14.19</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12690.270	38.28	16.33	54.61	74.00	-19.39	peak	2 *	12690.520	23.48	16.33	39.81	54.00	-14.19	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12690.270	38.28	16.33	54.61	74.00	-19.39	peak																								
2 *	12690.520	23.48	16.33	39.81	54.00	-14.19	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE160) Mode 6345MHz (UNII-5)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12690.330</td><td>38.27</td><td>16.33</td><td>54.60</td><td>74.00</td><td>-19.40</td><td>peak</td></tr><tr><td>2 *</td><td>12690.480</td><td>22.75</td><td>16.33</td><td>39.08</td><td>54.00</td><td>-14.92</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12690.330	38.27	16.33	54.60	74.00	-19.40	peak	2 *	12690.480	22.75	16.33	39.08	54.00	-14.92	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12690.330	38.27	16.33	54.60	74.00	-19.40	peak																								
2 *	12690.480	22.75	16.33	39.08	54.00	-14.92	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE20) Mode 6435MHz (UNII-6)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1 *	12869.097	23.47	16.84	40.31	54.00	-13.69	AVG
2	12869.687	38.70	16.84	55.54	74.00	-18.46	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	MIMO
Ant. Pol.	Vertical
Test Mode:	TX 802.11ax(HE20) Mode 6435MHz (UNII-6)
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	12870.002	22.51	16.84	39.35	54.00	-14.65	AVG
2	12870.834	38.19	16.84	55.03	74.00	-18.97	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE20) Mode 6475MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12949.000</td><td>37.01</td><td>17.01</td><td>54.02</td><td>74.00</td><td>-19.98</td><td>peak</td></tr><tr><td>2 *</td><td>12950.443</td><td>22.49</td><td>17.02</td><td>39.51</td><td>54.00</td><td>-14.49</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12949.000	37.01	17.01	54.02	74.00	-19.98	peak	2 *	12950.443	22.49	17.02	39.51	54.00	-14.49	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12949.000	37.01	17.01	54.02	74.00	-19.98	peak																								
2 *	12950.443	22.49	17.02	39.51	54.00	-14.49	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE20) Mode 6475MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12949.827</td><td>37.91</td><td>17.02</td><td>54.93</td><td>74.00</td><td>-19.07</td><td>peak</td></tr><tr><td>2 *</td><td>12949.936</td><td>23.07</td><td>17.02</td><td>40.09</td><td>54.00</td><td>-13.91</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12949.827	37.91	17.02	54.93	74.00	-19.07	peak	2 *	12949.936	23.07	17.02	40.09	54.00	-13.91	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12949.827	37.91	17.02	54.93	74.00	-19.07	peak																								
2 *	12949.936	23.07	17.02	40.09	54.00	-13.91	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ax(HE20) Mode 6515MHz (UNII-6)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	13029.267	36.77	17.14	53.91	74.00	-20.09	peak
2 *	13030.499	22.25	17.14	39.39	54.00	-14.61	AVG
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE20) Mode 6515MHz (UNII-6)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13029.765	22.31	17.14	39.45	54.00	-14.55	AVG
2	13030.236	37.39	17.14	54.53	74.00	-19.47	peak
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value							



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE40) Mode 6445MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12889.150</td><td>37.06</td><td>16.87</td><td>53.93</td><td>74.00</td><td>-20.07</td><td>peak</td></tr><tr><td>2 *</td><td>12890.452</td><td>22.43</td><td>16.87</td><td>39.30</td><td>54.00</td><td>-14.70</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12889.150	37.06	16.87	53.93	74.00	-20.07	peak	2 *	12890.452	22.43	16.87	39.30	54.00	-14.70	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12889.150	37.06	16.87	53.93	74.00	-20.07	peak																								
2 *	12890.452	22.43	16.87	39.30	54.00	-14.70	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE40) Mode 6445MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>12889.144</td><td>23.25</td><td>16.87</td><td>40.12</td><td>54.00</td><td>-13.88</td><td>AVG</td></tr><tr><td>2</td><td>12889.419</td><td>37.01</td><td>16.87</td><td>53.88</td><td>74.00</td><td>-20.12</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	12889.144	23.25	16.87	40.12	54.00	-13.88	AVG	2	12889.419	37.01	16.87	53.88	74.00	-20.12	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	12889.144	23.25	16.87	40.12	54.00	-13.88	AVG																								
2	12889.419	37.01	16.87	53.88	74.00	-20.12	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE40) Mode 6485MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>12970.700</td><td>22.43</td><td>17.07</td><td>39.50</td><td>54.00</td><td>-14.50</td><td>AVG</td></tr><tr><td>2</td><td>12970.801</td><td>37.37</td><td>17.07</td><td>54.44</td><td>74.00</td><td>-19.56</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	12970.700	22.43	17.07	39.50	54.00	-14.50	AVG	2	12970.801	37.37	17.07	54.44	74.00	-19.56	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	12970.700	22.43	17.07	39.50	54.00	-14.50	AVG																								
2	12970.801	37.37	17.07	54.44	74.00	-19.56	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ax(HE40) Mode 6485MHz (UNII-6)						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						



Ant. No.	MIMO																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11ax(HE80) Mode 6465MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1</td><td>12929.378</td><td>38.06</td><td>16.96</td><td>55.02</td><td>74.00</td><td>-18.98</td><td>peak</td></tr><tr><td>2 *</td><td>12930.855</td><td>22.27</td><td>16.96</td><td>39.23</td><td>54.00</td><td>-14.77</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	12929.378	38.06	16.96	55.02	74.00	-18.98	peak	2 *	12930.855	22.27	16.96	39.23	54.00	-14.77	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	12929.378	38.06	16.96	55.02	74.00	-18.98	peak																								
2 *	12930.855	22.27	16.96	39.23	54.00	-14.77	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	MIMO																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11ax(HE80) Mode 6465MHz (UNII-6)																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBuV)</td><td>Factor (dB/m)</td><td>Level (dBuV/m)</td><td>Limit (dBuV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>12930.051</td><td>22.47</td><td>16.96</td><td>39.43</td><td>54.00</td><td>-14.57</td><td>AVG</td></tr><tr><td>2</td><td>12930.150</td><td>37.82</td><td>16.96</td><td>54.78</td><td>74.00</td><td>-19.22</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	12930.051	22.47	16.96	39.43	54.00	-14.57	AVG	2	12930.150	37.82	16.96	54.78	74.00	-19.22	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	12930.051	22.47	16.96	39.43	54.00	-14.57	AVG																								
2	12930.150	37.82	16.96	54.78	74.00	-19.22	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

3.3. Band Edge Emissions

Limit

Limits of unwanted emission out of the restricted bands

FCC CFR Title 47 Part 15 Subpart E Section 15. 407(b) / RSS-248 4.6

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS (Above 1000 MHz)

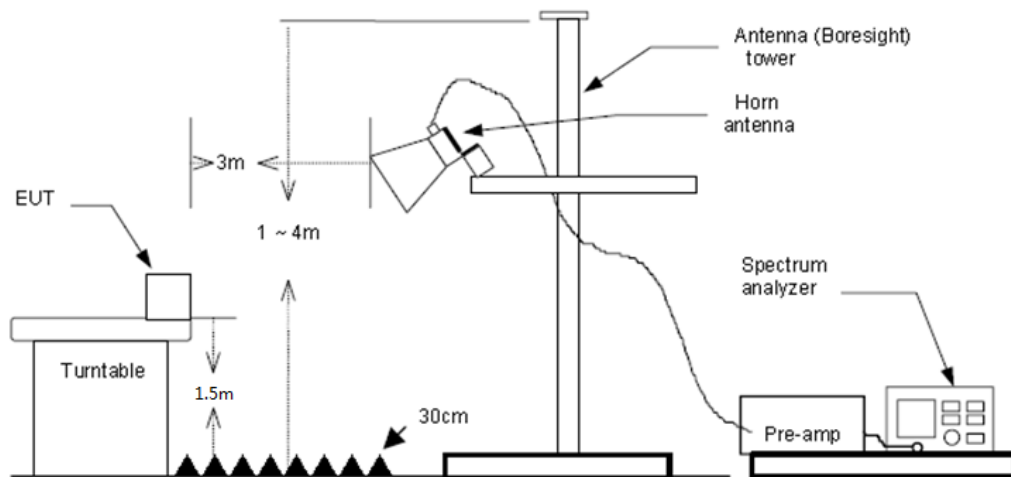
Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5925-7125	Average (RMS): -27	68.2
5925-7125	(Peak): - 7	88.2

NOTE:

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

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

Test Configuration



**Test Procedure**

1. The EUT was setup and tested according to ANSI C63.10:2020 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2020 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause Duty Cycle.

Test Mode

Please refer to the clause 2.4.

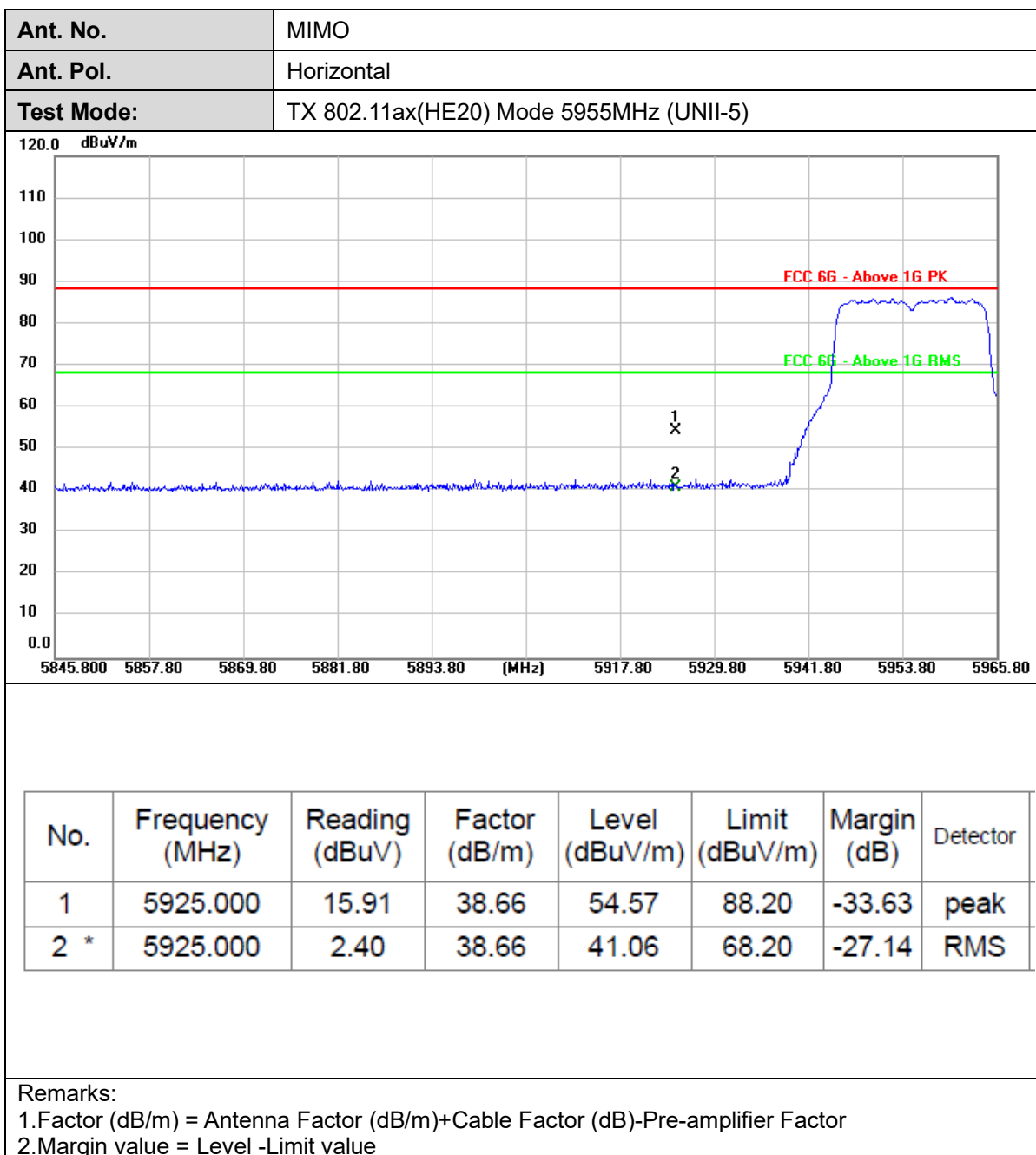


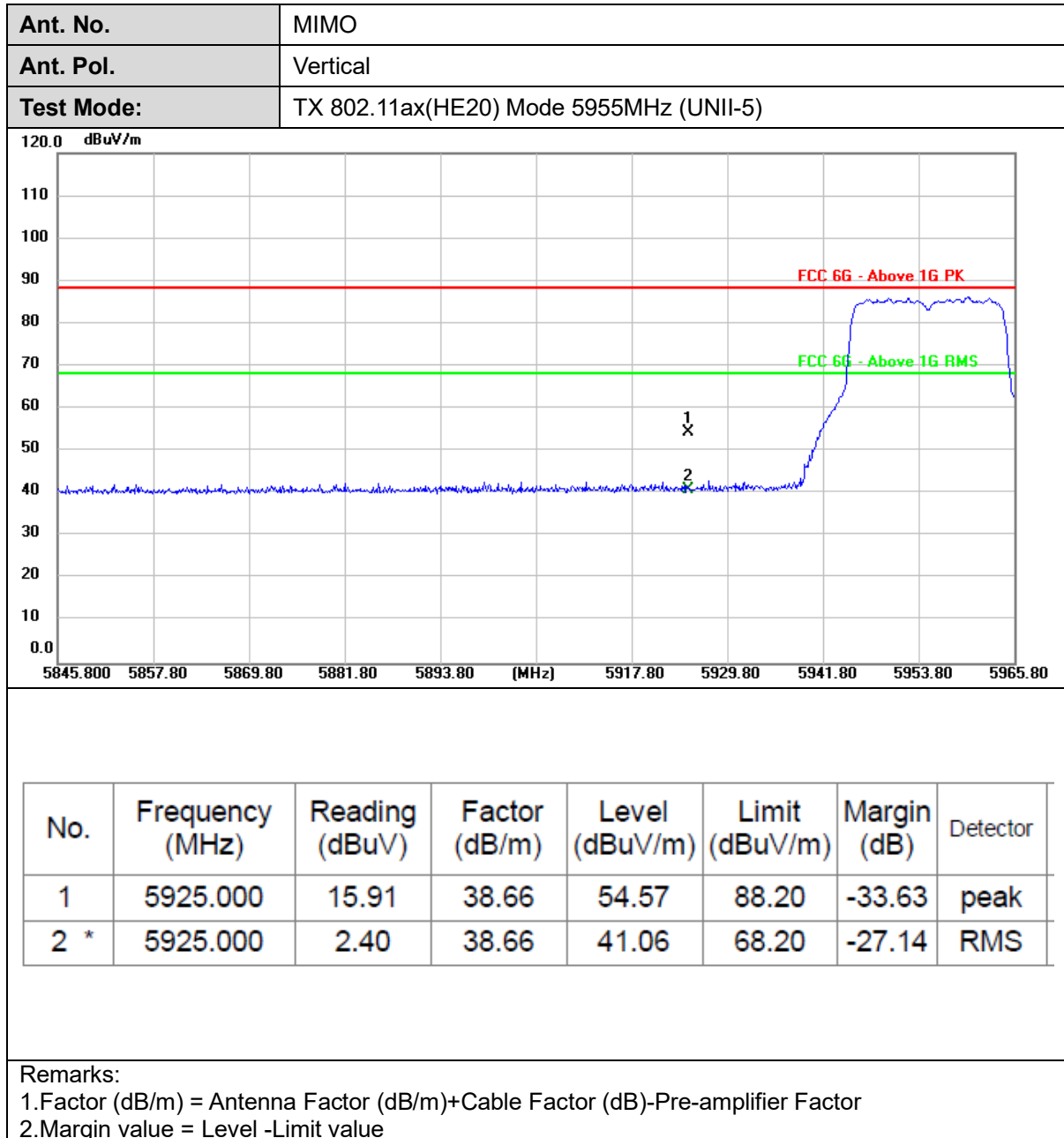
Test Result

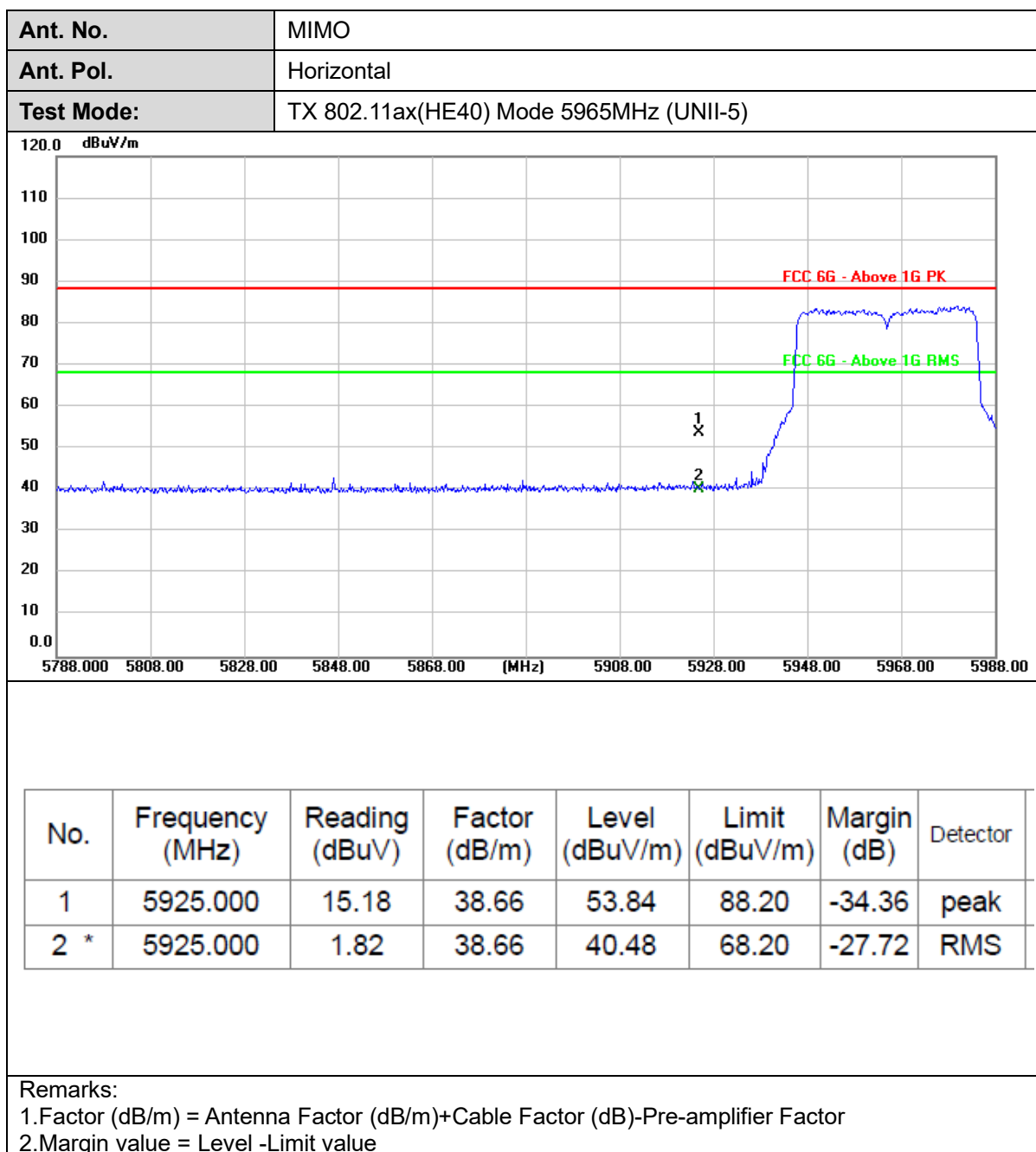
Note: 1. Pre-scan both 4500-5150MHz, 5350-5460MHz were investigated, report only shows the test data for worst case.

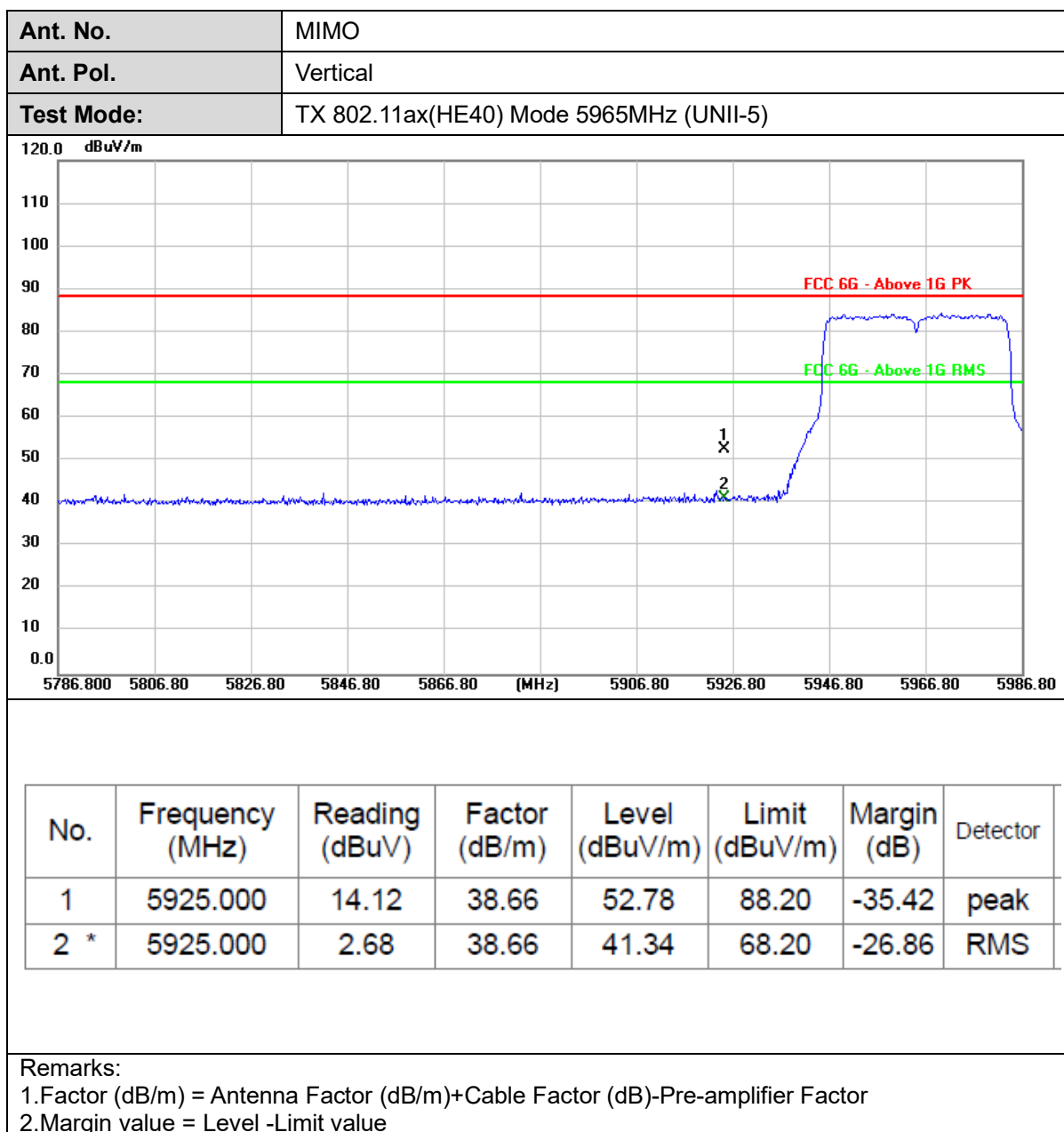
2. Pre-scan all antenna, only show the test data for worse case antenna on the test report.

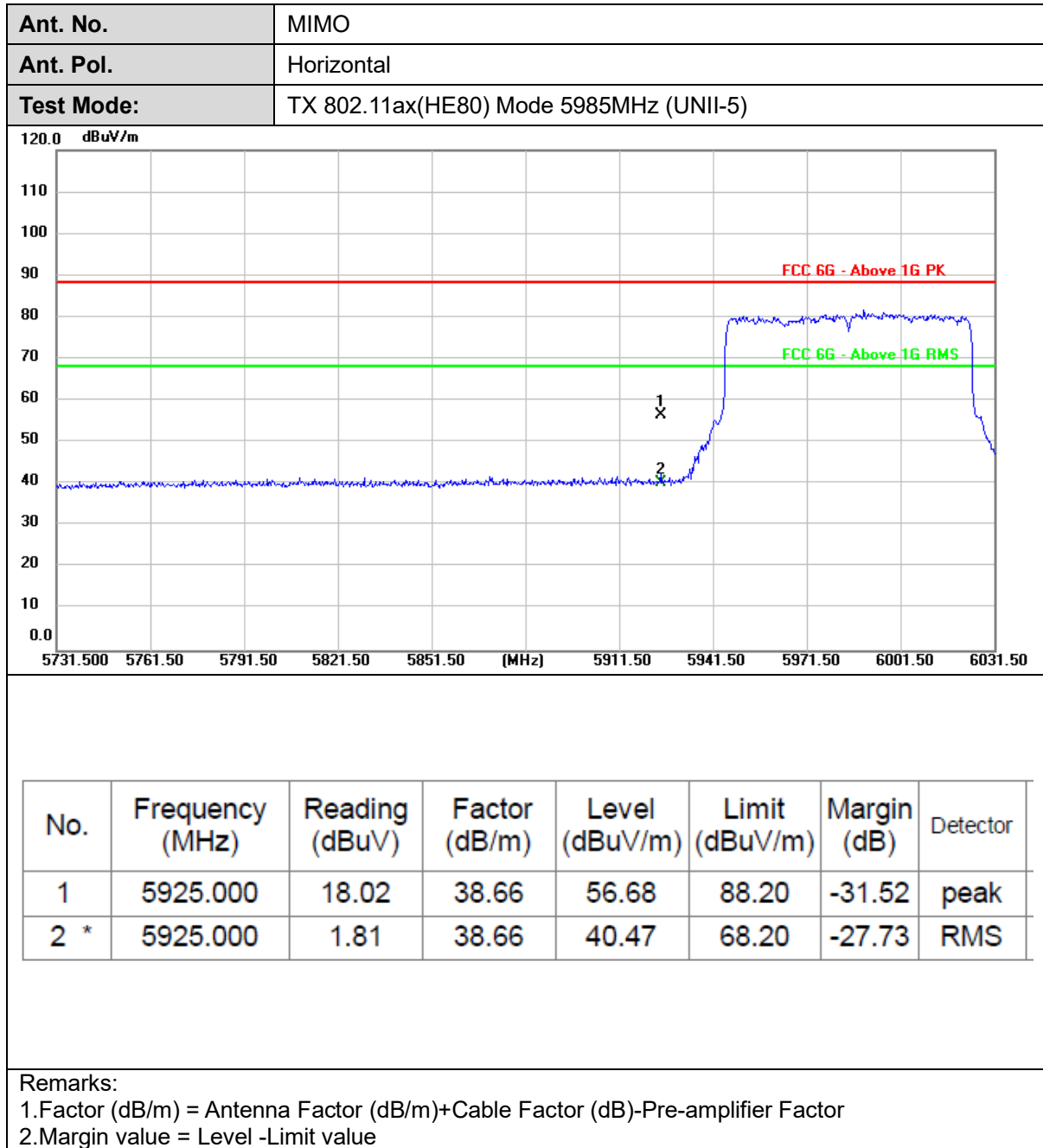
Test Voltage: DC 10.9V 6700mAh 73.03Wh from Rechargeable Li-ion Battery Pack

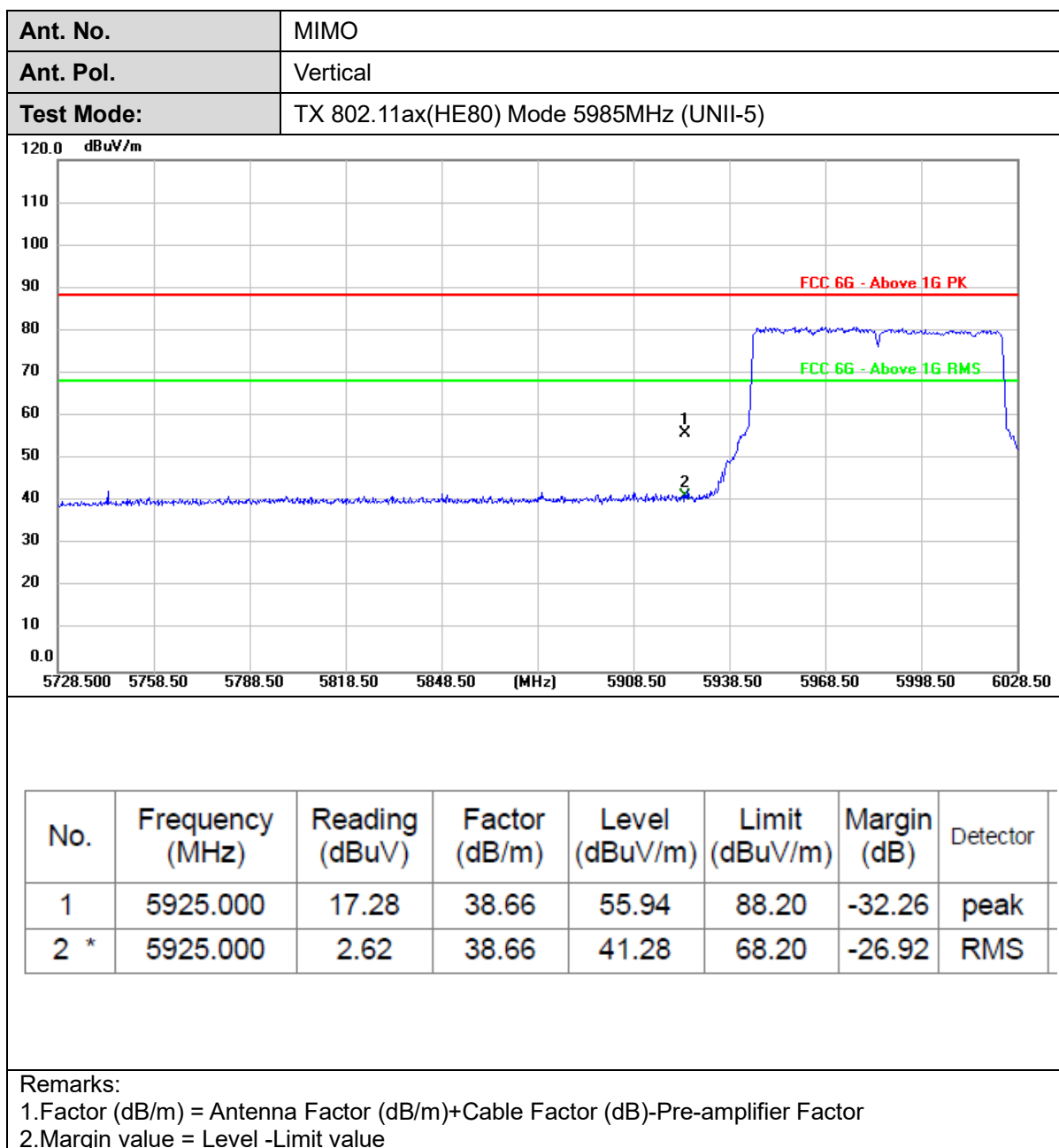


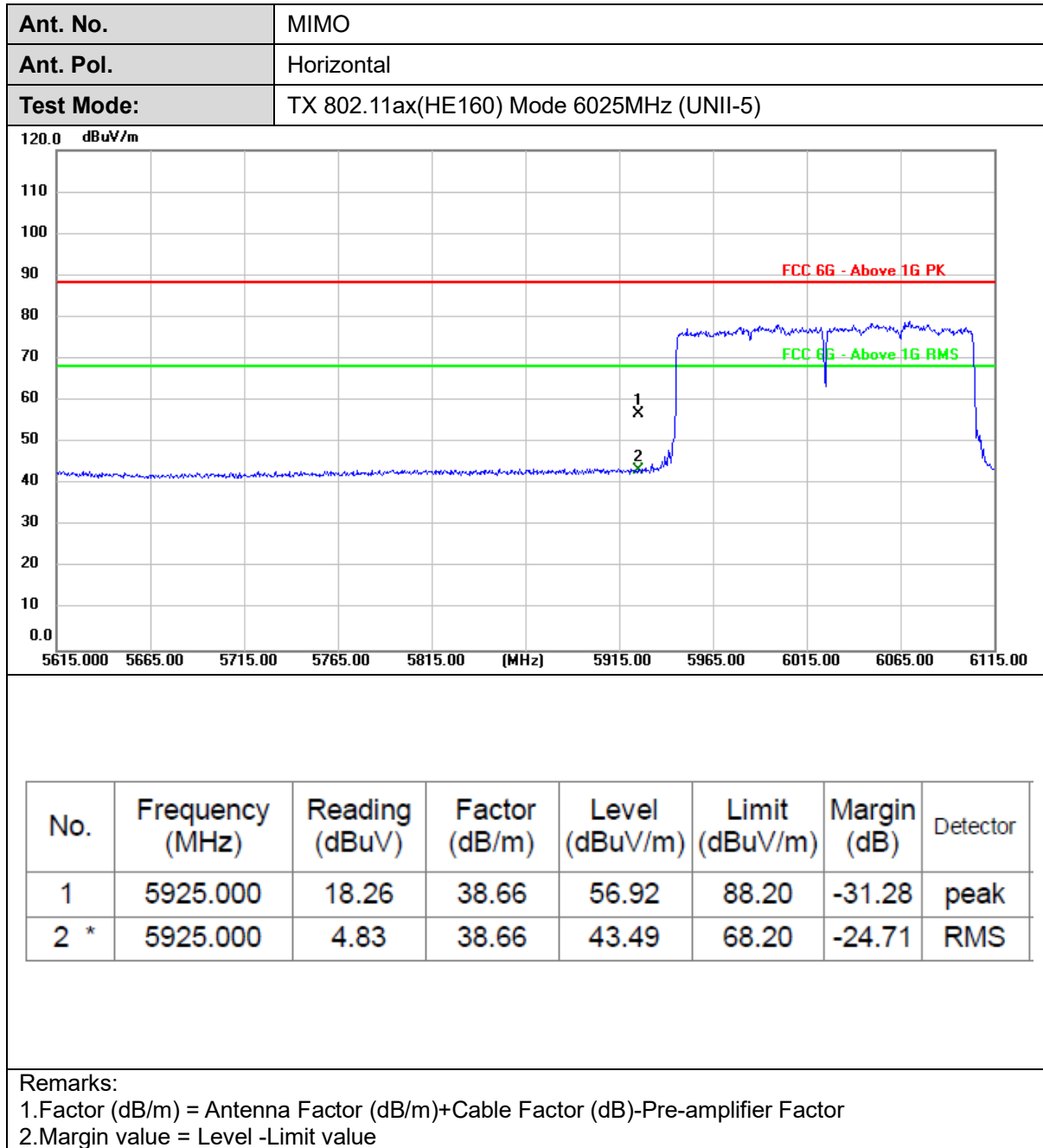


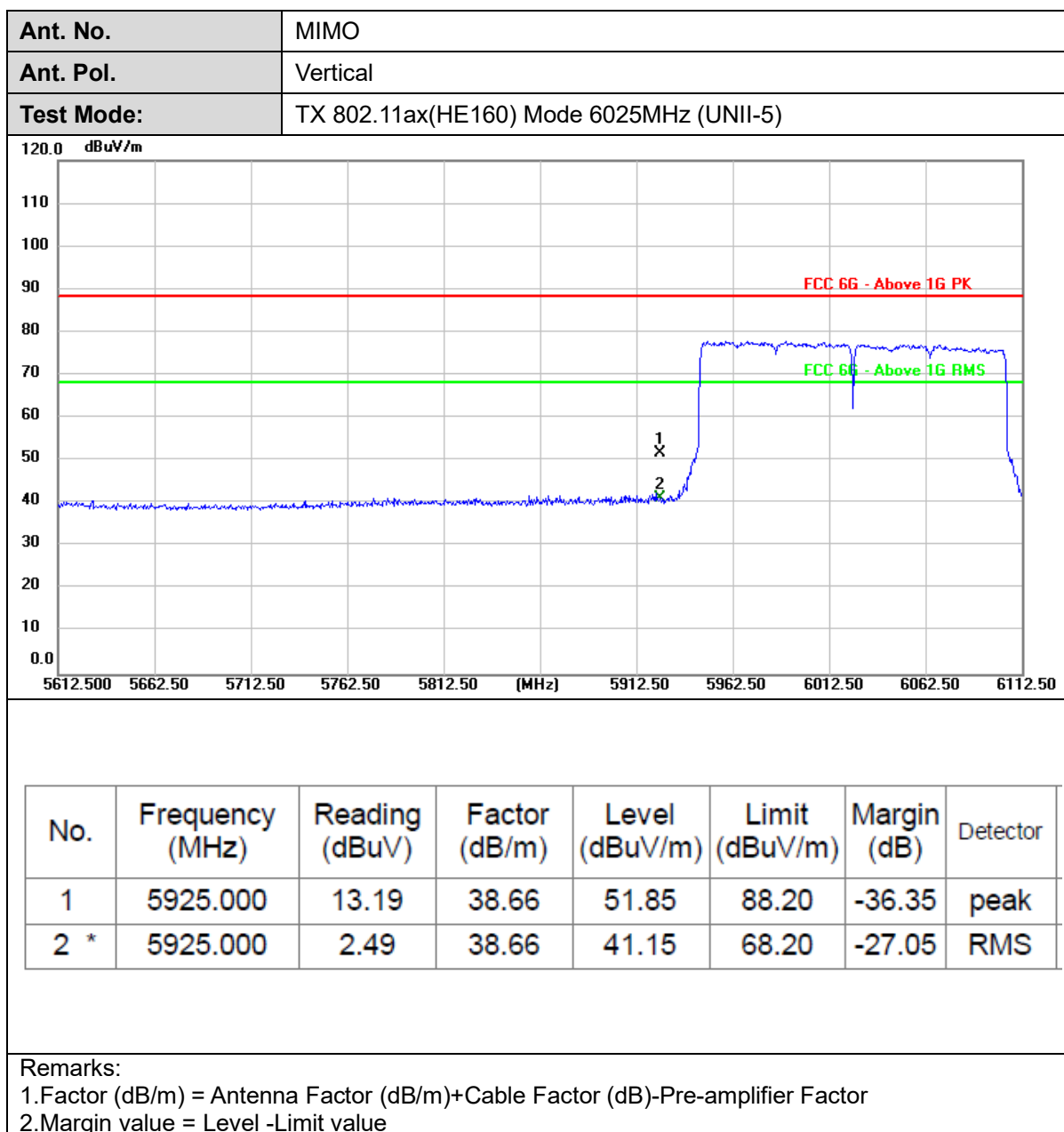














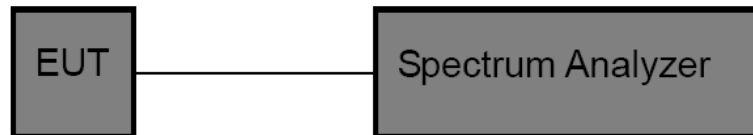
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a) & (e) / RSS-247 6.2.1.2 & 6.2.4.1

The maximum bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz. KDB 987594 D03 U-NII 6 GHz QA v02, modified by FCC TCB Workshop Presentation Review of TCB PAG Submissions - October 2023, allows the maximum bandwidths to be defined by either the 26dB bandwidth or the 99% bandwidth for a 320 MHz nominal channel bandwidth and by the 26dB bandwidth for all other nominal channel bandwidths. The KDB requires that the test report show the 99% and 26 dB bandwidth for all the nominal channel bandwidths used by the device.

Test Configuration



Test

Procedure

Please refer to KDB789033 D02 for the measurement methods.

The setting of the spectrum analyzer as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

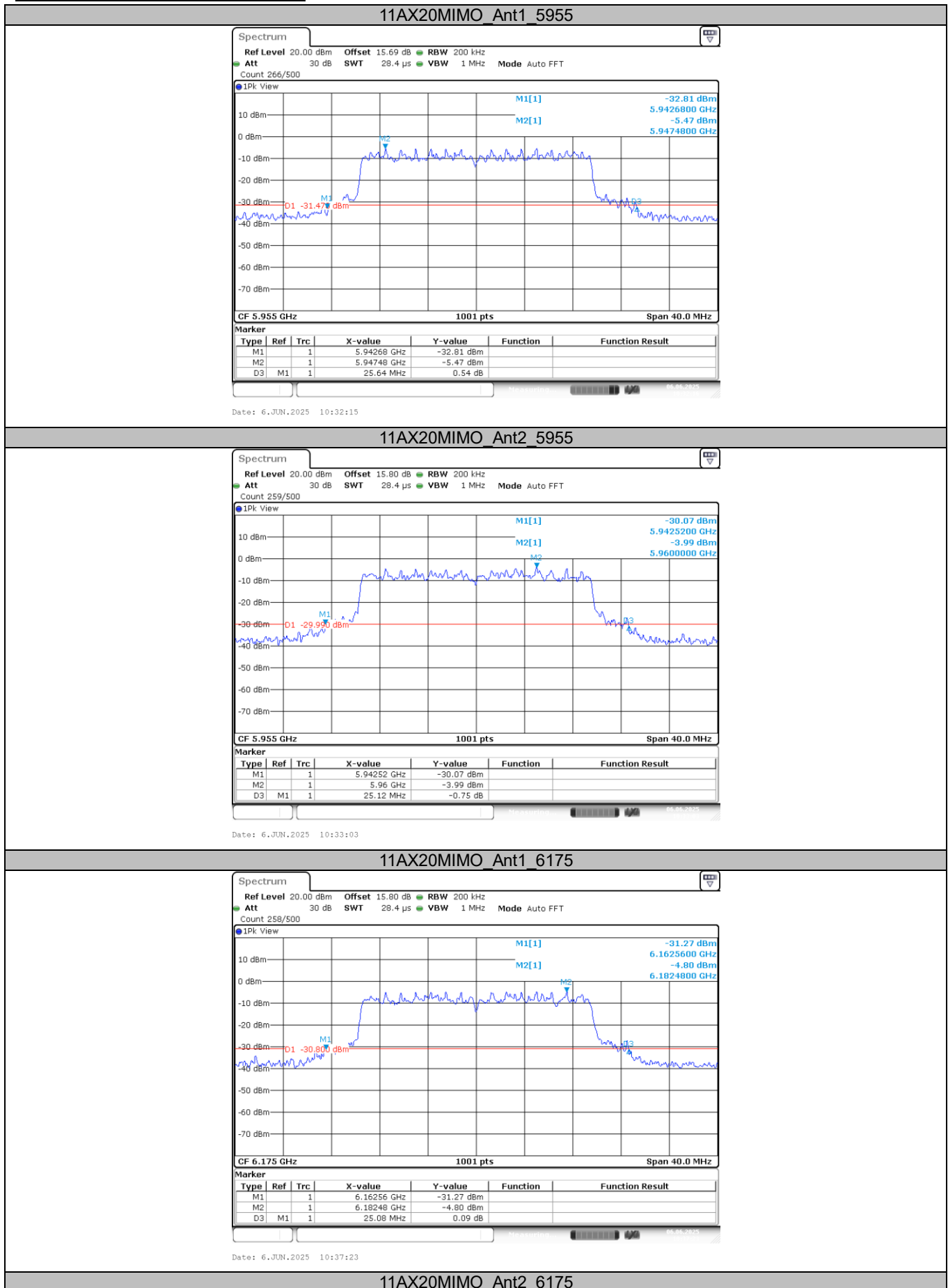
NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

**Test Mode**

Please refer to the clause 2.4.

Test Result**26dB Bandwidth & 99% Bandwidth**

TestMode	Antenna	Channel	26db EBW [MHz]	OCB [MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	25.64	19.181	≤320	PASS
	Ant2	5955	25.12	19.181	≤320	PASS
	Ant1	6175	25.08	19.341	≤320	PASS
	Ant2	6175	24.76	19.181	≤320	PASS
	Ant1	6415	25.48	19.461	≤320	PASS
	Ant2	6415	25.48	19.301	≤320	PASS
	Ant1	6435	24.48	19.341	≤320	PASS
	Ant2	6435	24.32	19.301	≤320	PASS
	Ant1	6475	25.44	19.381	≤320	PASS
	Ant2	6475	23.96	19.341	≤320	PASS
	Ant1	6515	24.52	19.221	≤320	PASS
	Ant2	6515	25.24	19.54	≤320	PASS
11AX40MIMO	Ant1	5965	44.56	38.122	≤320	PASS
	Ant2	5965	43.84	38.282	≤320	PASS
	Ant1	6165	42.80	38.282	≤320	PASS
	Ant2	6165	43.92	38.282	≤320	PASS
	Ant1	6405	45.44	38.282	≤320	PASS
	Ant2	6405	45.04	38.202	≤320	PASS
	Ant1	6445	44.40	38.362	≤320	PASS
	Ant2	6445	40.56	38.442	≤320	PASS
	Ant1	6485	42.24	38.282	≤320	PASS
	Ant2	6485	42.16	38.282	≤320	PASS
11AX80MIMO	Ant1	5985	87.36	78.482	≤320	PASS
	Ant2	5985	82.72	78.322	≤320	PASS
	Ant1	6145	86.56	78.482	≤320	PASS
	Ant2	6145	85.92	78.162	≤320	PASS
	Ant1	6385	115.68	78.641	≤320	PASS
	Ant2	6385	86.56	78.322	≤320	PASS
	Ant1	6465	84.80	78.641	≤320	PASS
	Ant2	6465	84.96	78.482	≤320	PASS
11AX160MIMO	Ant1	6025	163.84	158.561	≤320	PASS
	Ant2	6025	163.84	158.561	≤320	PASS
	Ant1	6185	163.20	158.242	≤320	PASS
	Ant2	6185	166.40	158.242	≤320	PASS
	Ant1	6345	166.40	158.242	≤320	PASS
	Ant2	6345	166.40	158.561	≤320	PASS

**26dB Bandwidth Test Graphs:**

CTC Laboratories, Inc.

Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

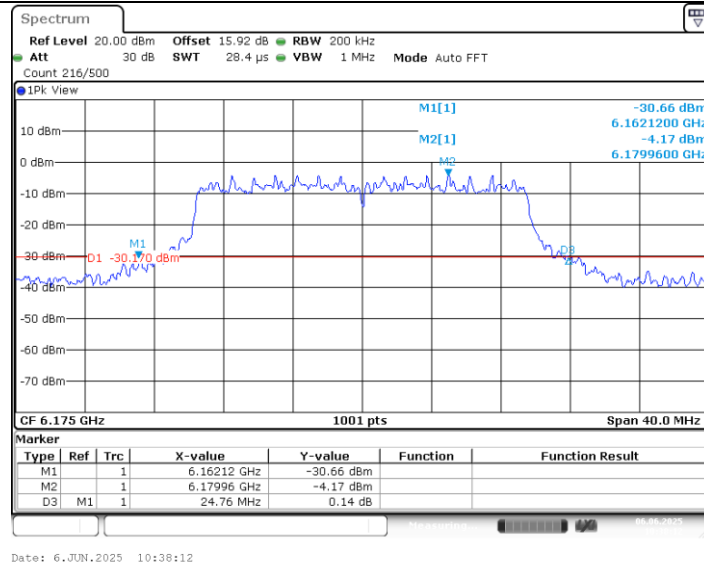
Tel.: (86)755-27521059

Fax: (86)755-27521011

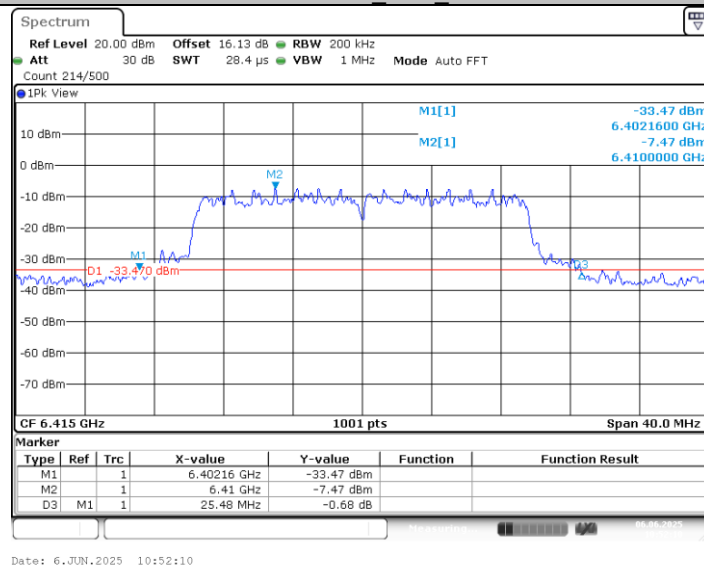
Http://www.sz-ctc.org.cn

TRF No: CTC-TR-150_A2

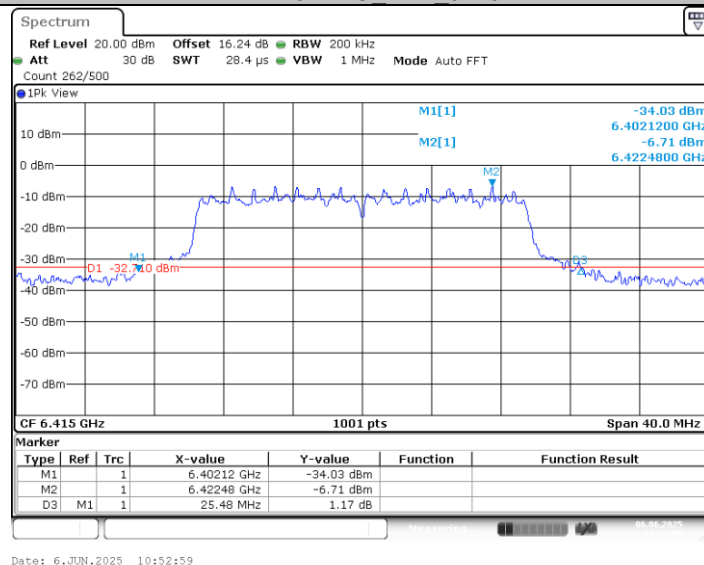
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



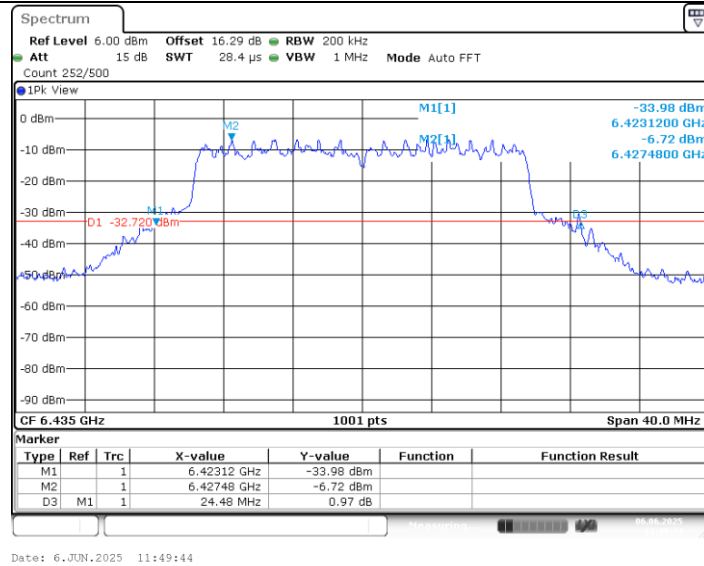
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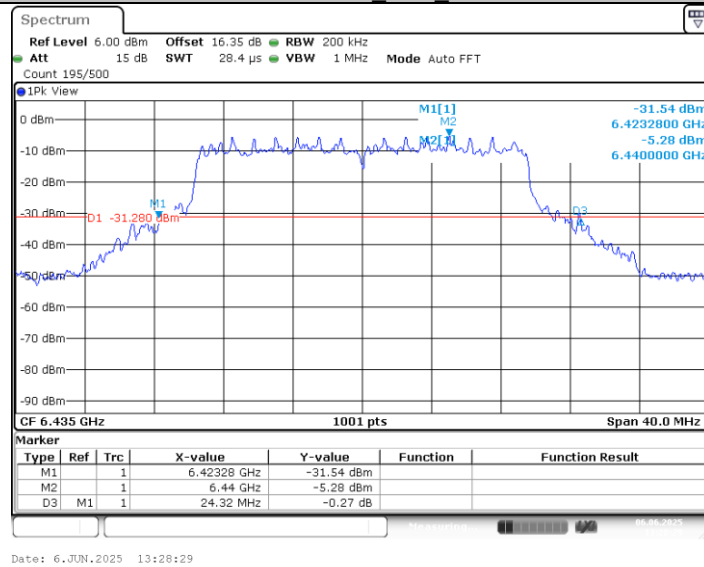
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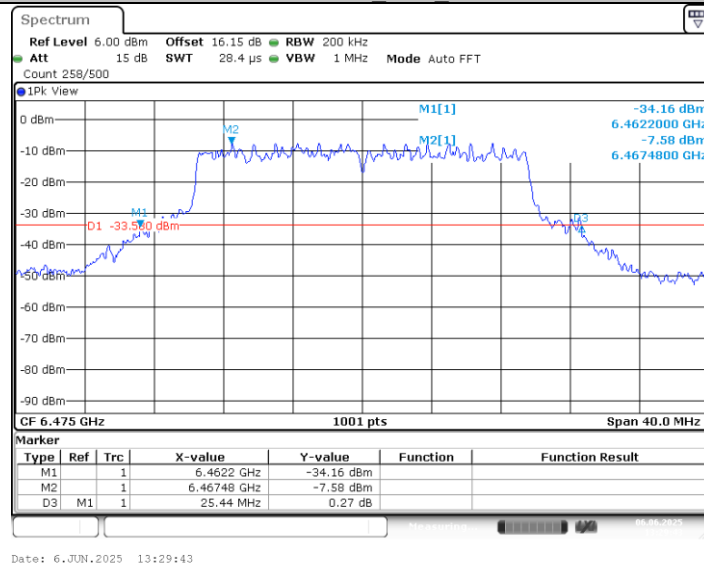
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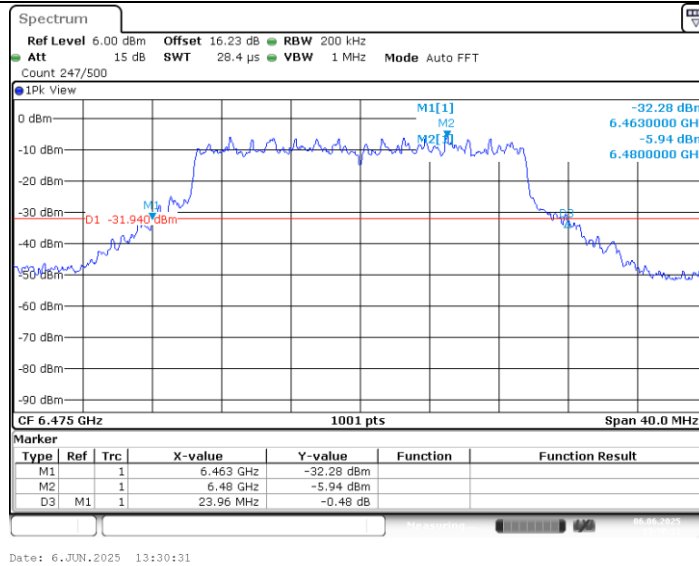
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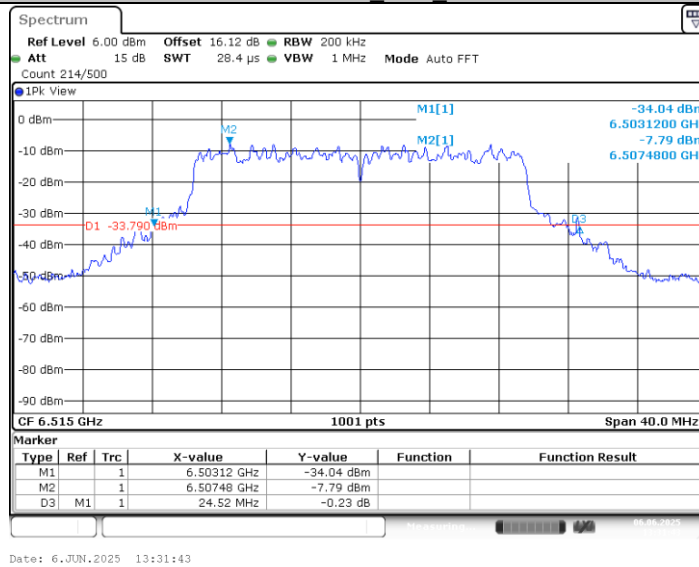
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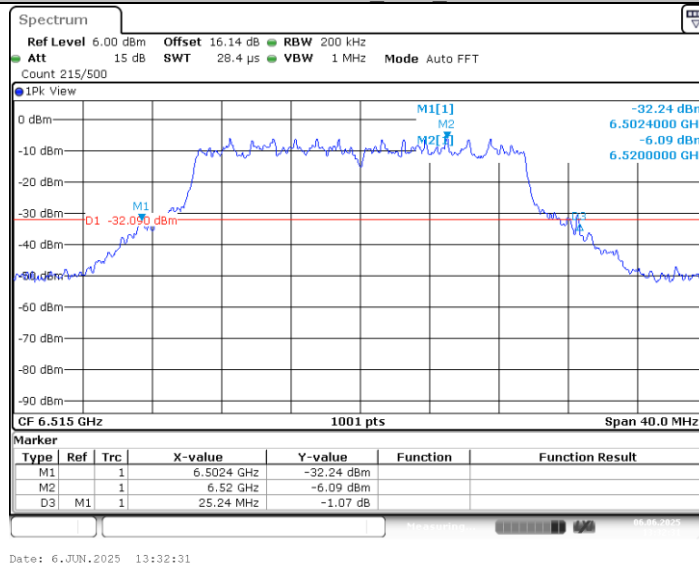
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11AX20MIMO_Ant1_6515



11AX20MIMO_Ant2_6515



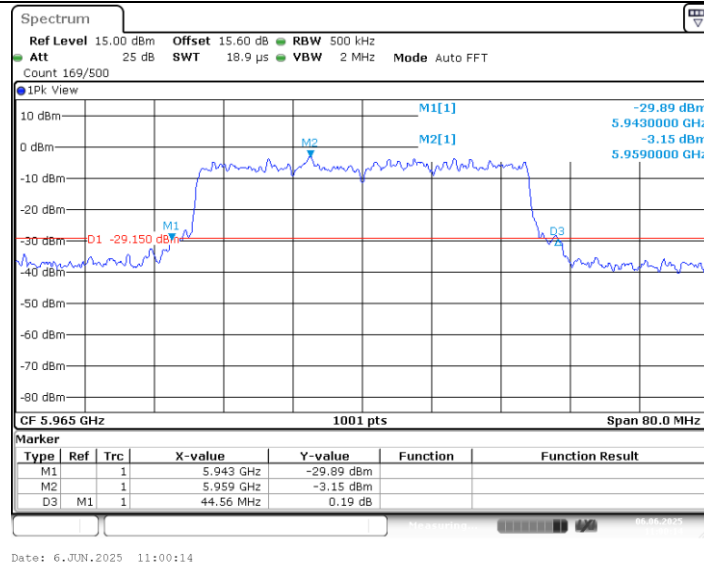
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CTC Laboratories, Inc.

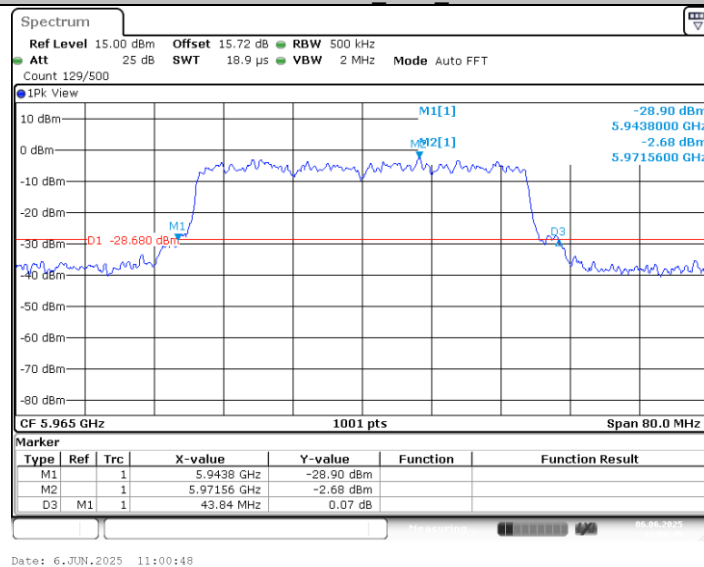
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-150_A2

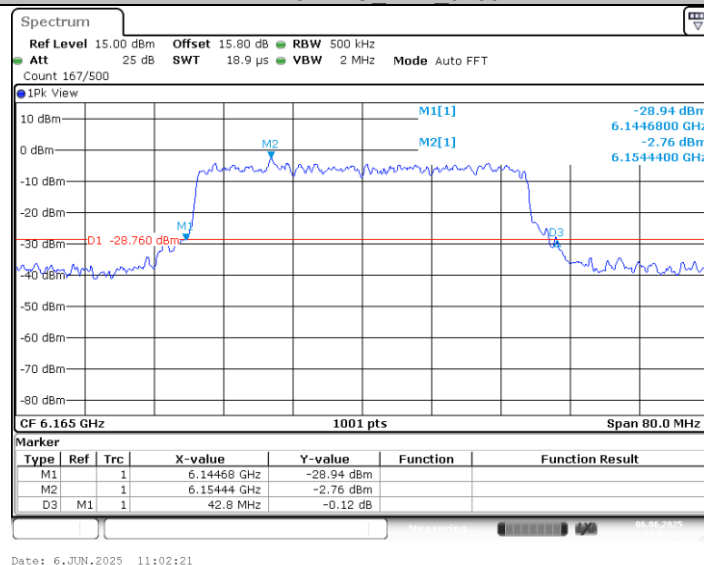
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11AX40MIMO_Ant2_5965



11AX40MIMO_Ant1_6165



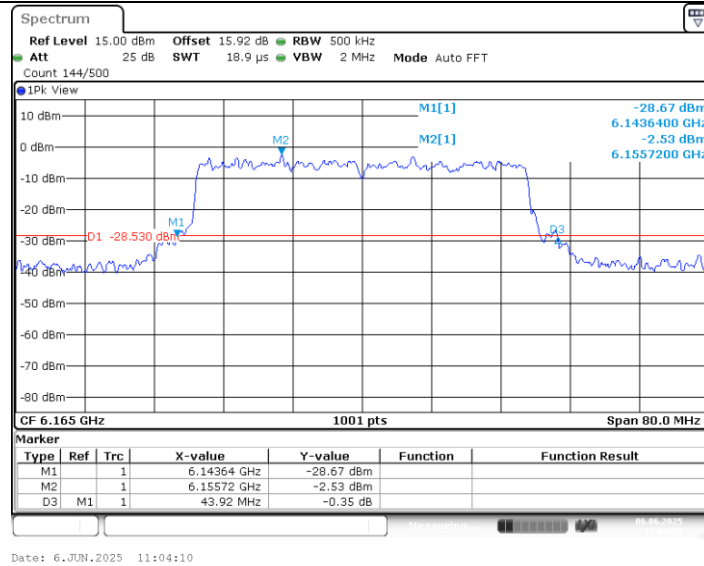
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CTC Laboratories, Inc.

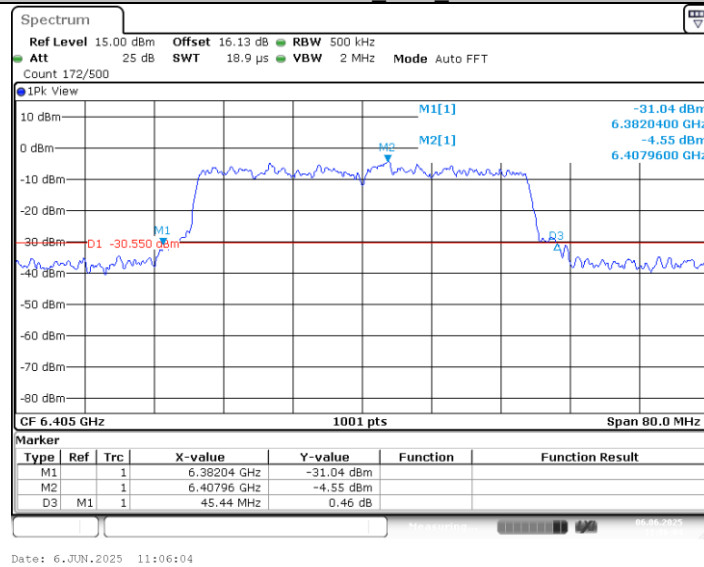
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-150_A2

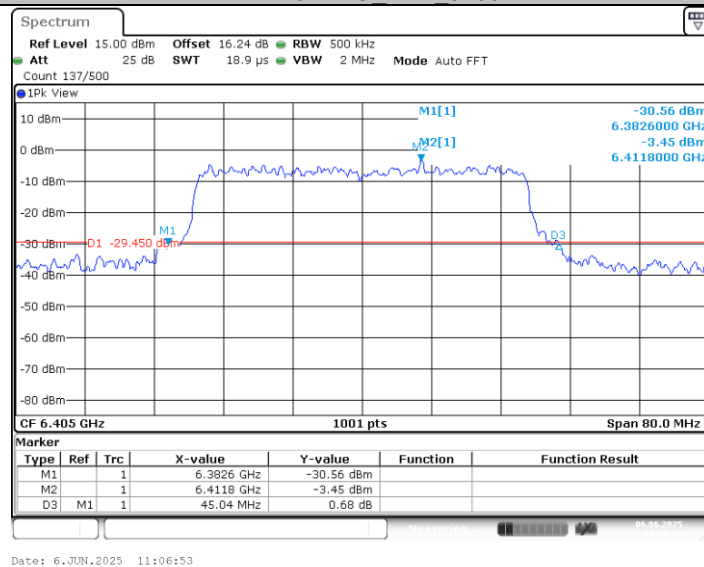
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AX40MIMO_Ant1_6405



11AX40MIMO_Ant2_6405



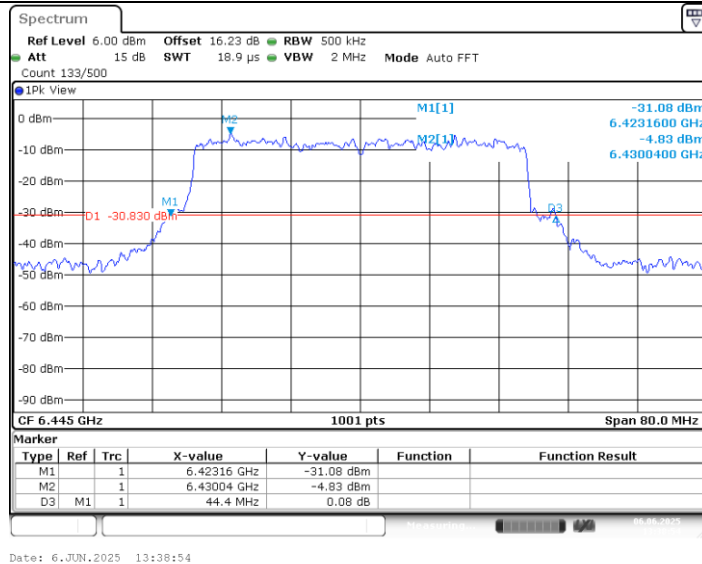
11AX40MIMO_Ant1_6445

CTC Laboratories, Inc.

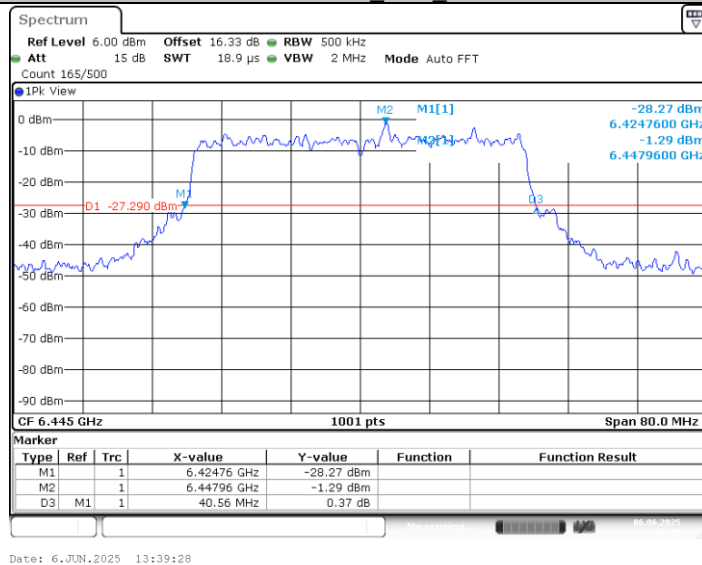
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-150_A2

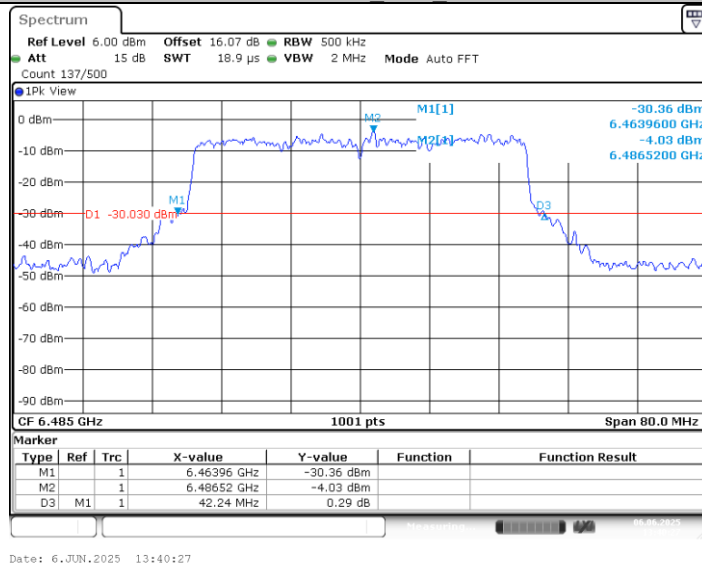
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



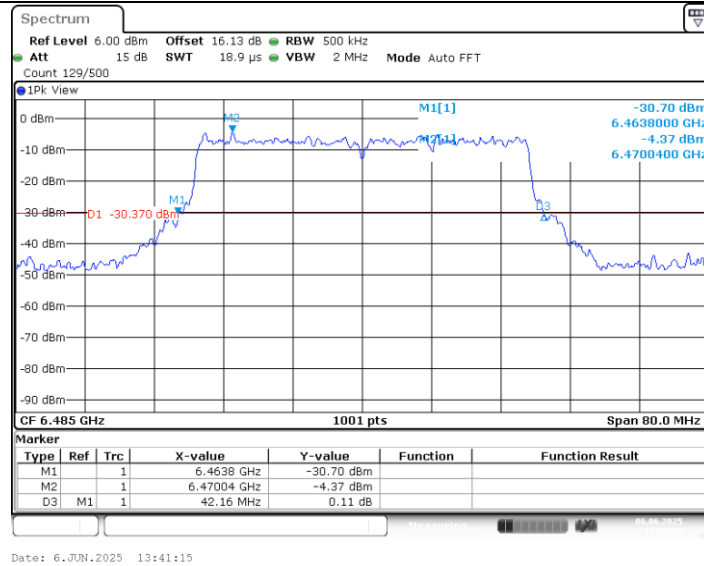
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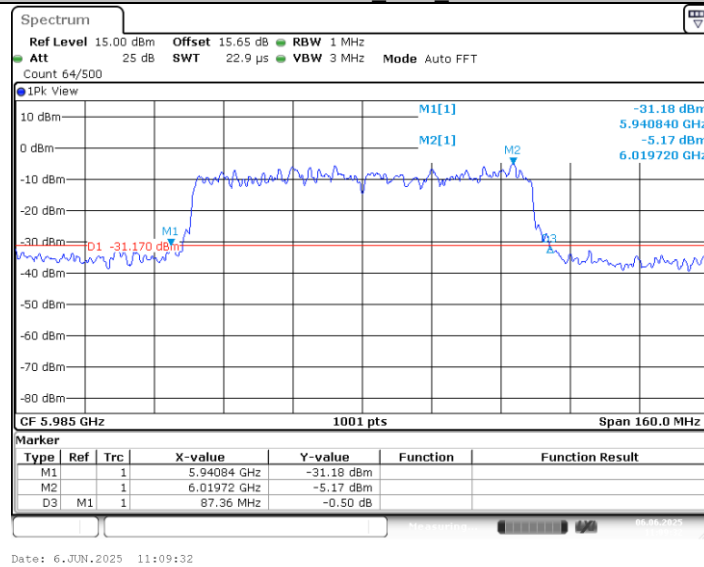
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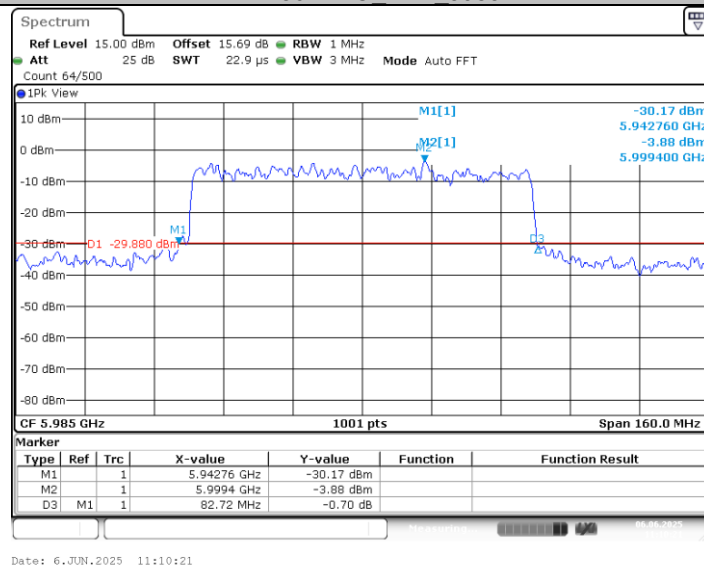
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11AX80MIMO_Ant1_5985



11AX80MIMO_Ant2_5985



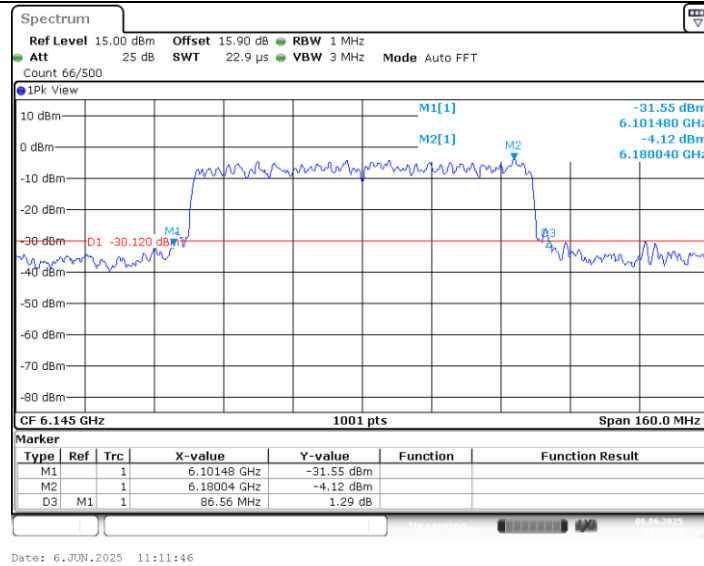
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CTC Laboratories, Inc.

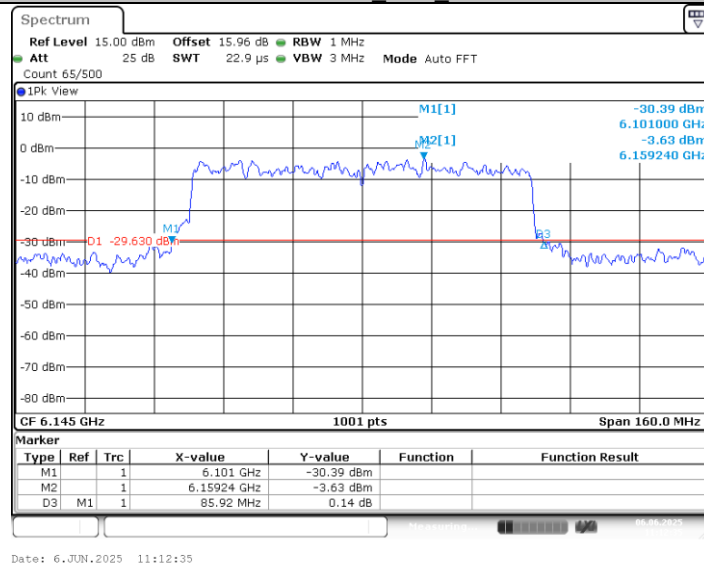
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-150_A2

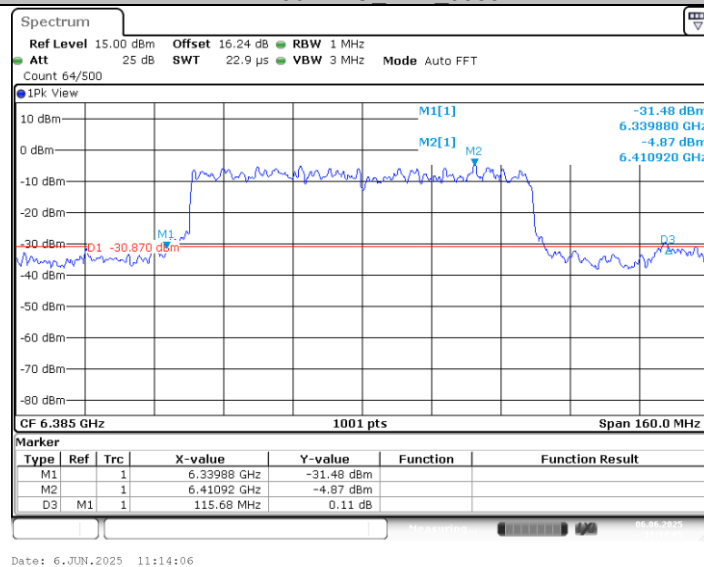
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



11AX80MIMO_Ant2_6145



11AX80MIMO_Ant1_6385



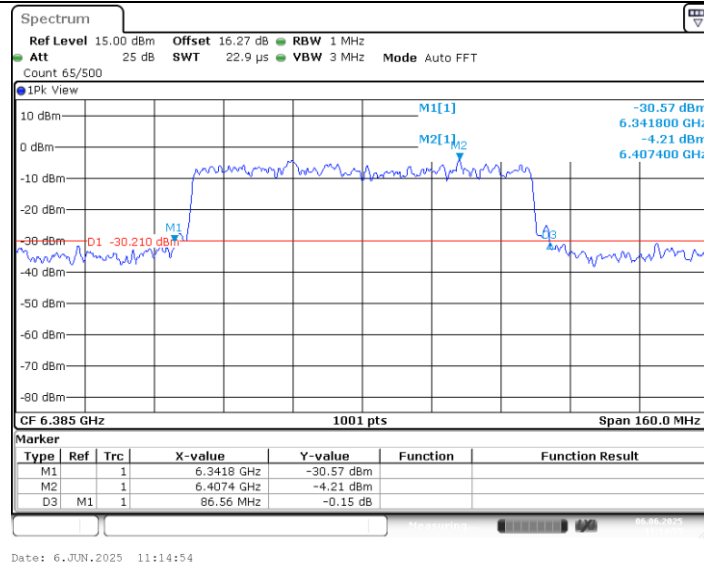
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CTC Laboratories, Inc.

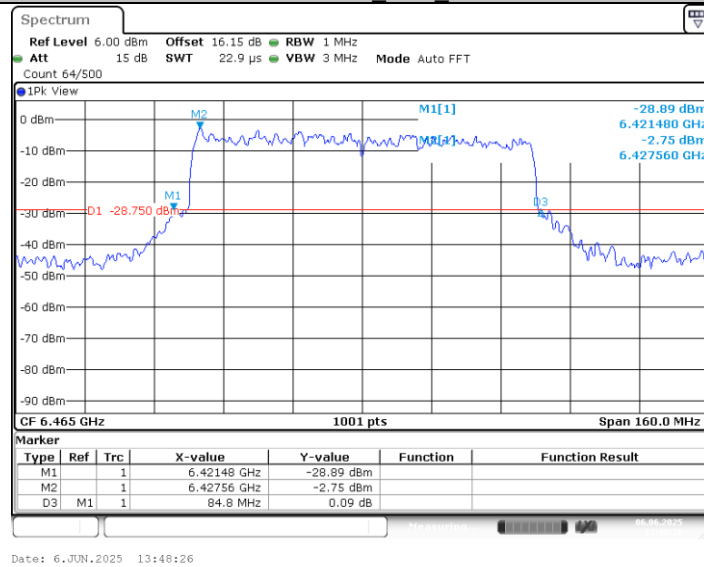
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-150_A2

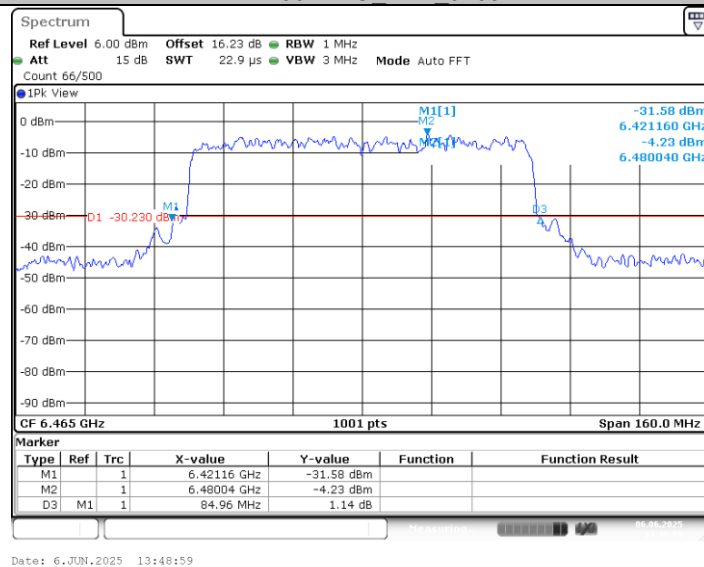
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cncaq.com



11AX80MIMO_Ant1_6465



11AX80MIMO_Ant2_6465



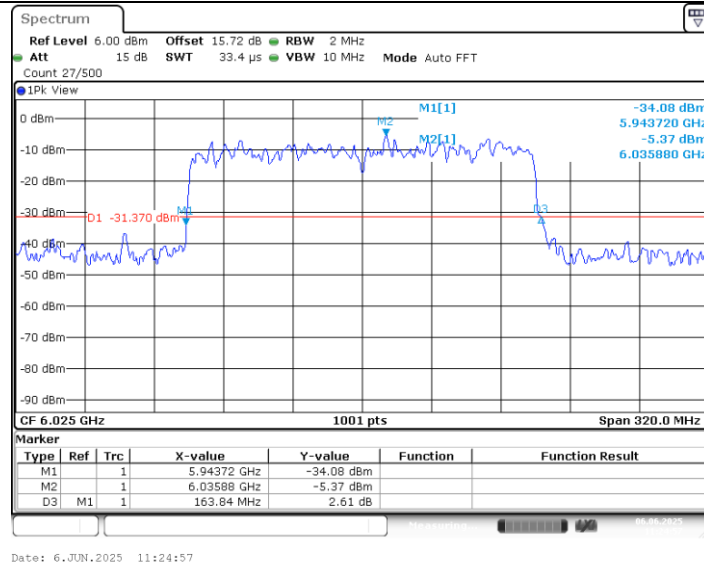
11AX160MIMO_Ant1_6025

CTC Laboratories, Inc.

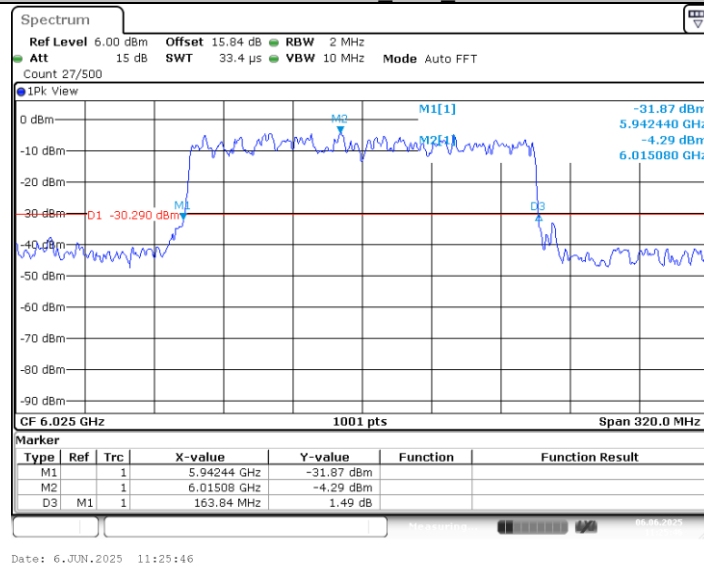
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict,
Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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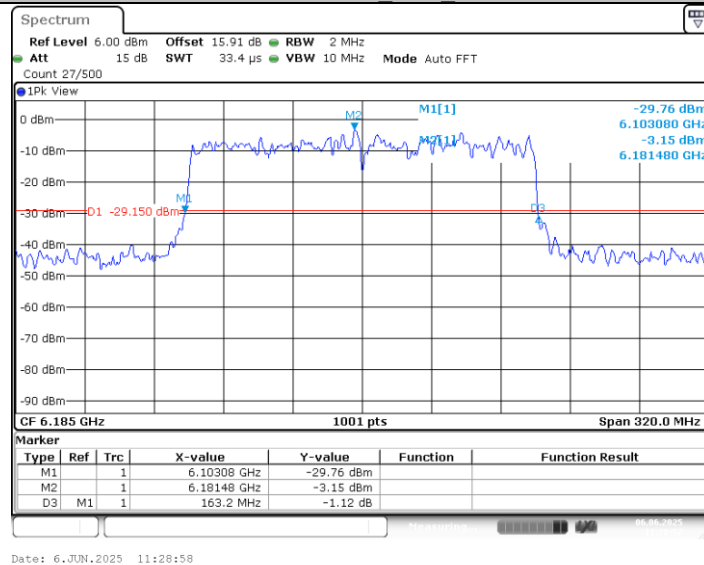
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11AX160MIMO Ant2 6025



11AX160MIMO Ant1 6185



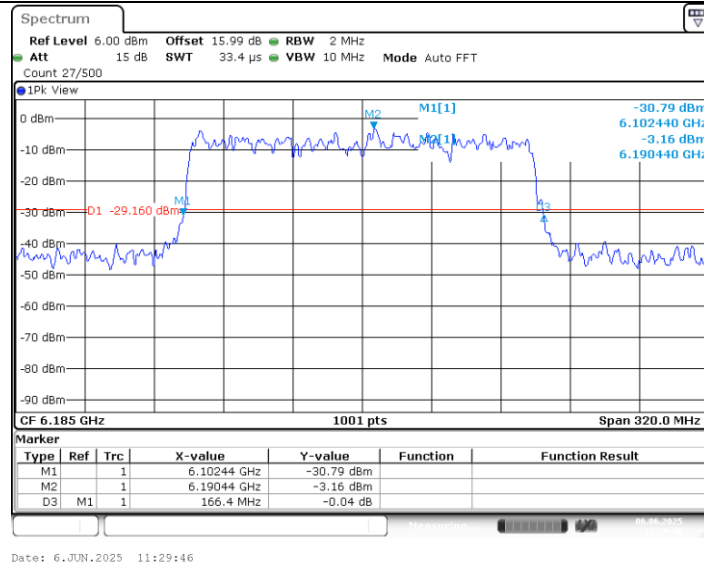
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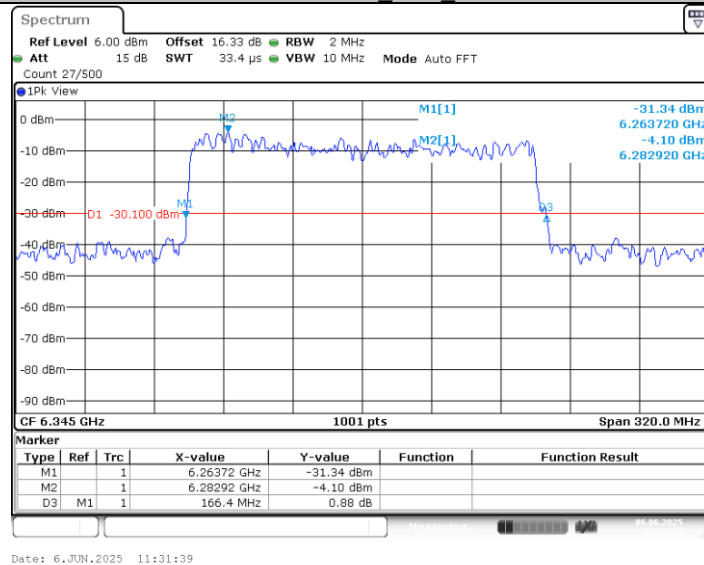
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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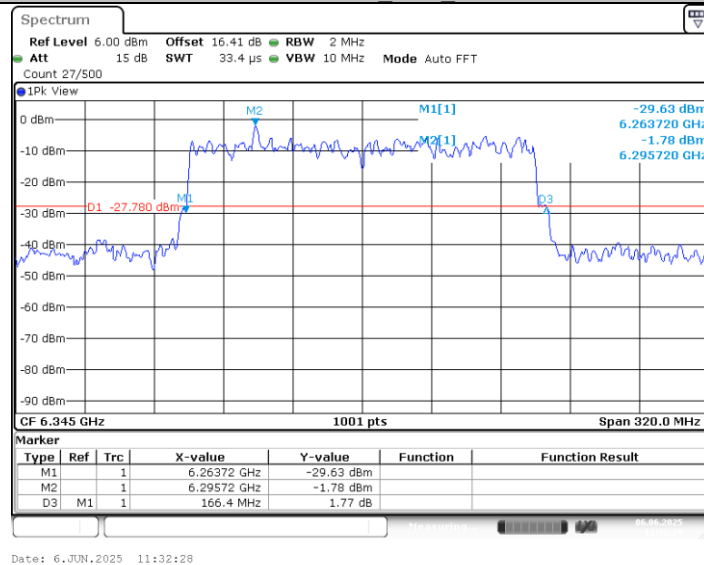
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11AX160MIMO Ant1 6345



11AX160MIMO Ant2 6345

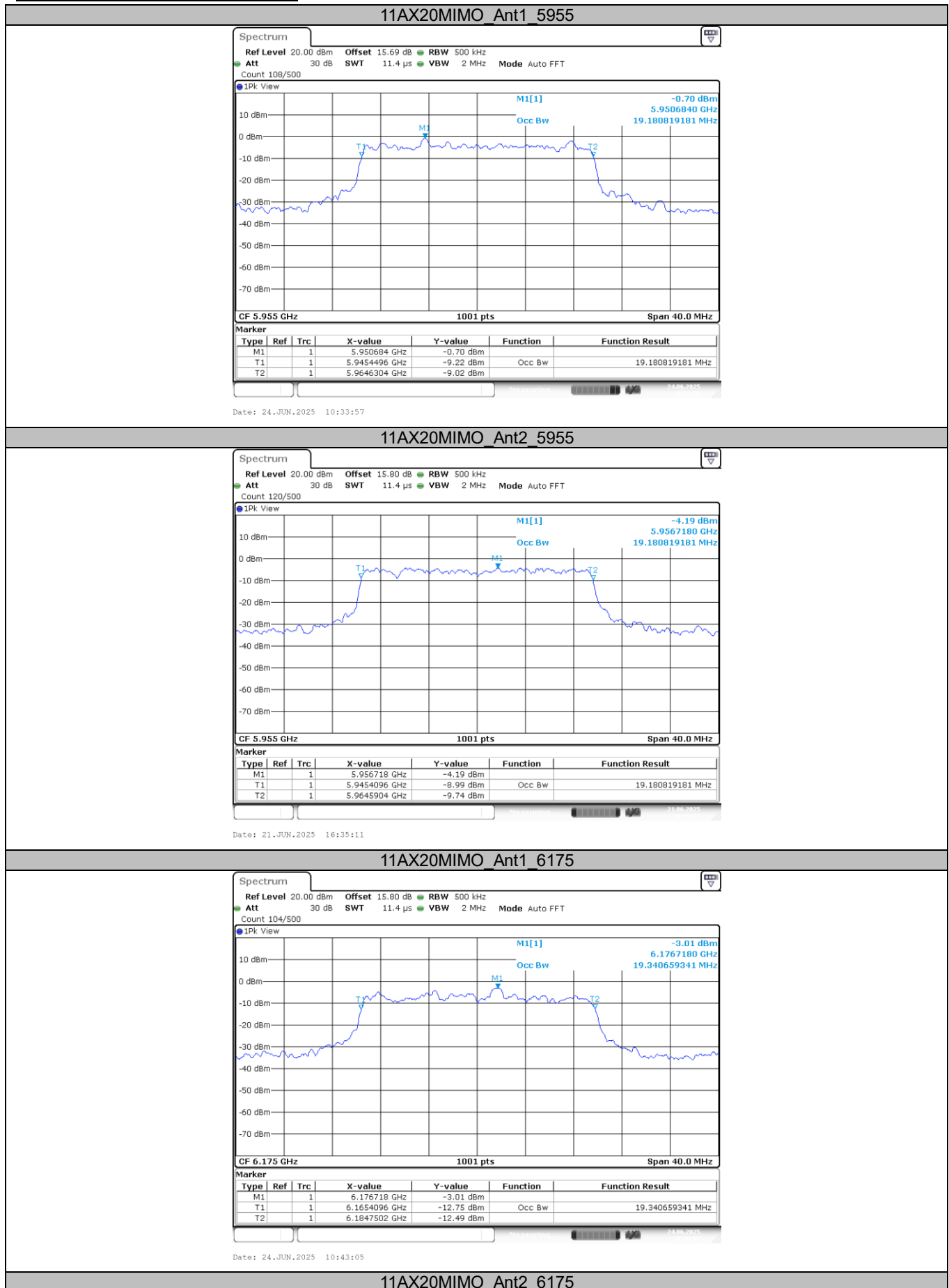


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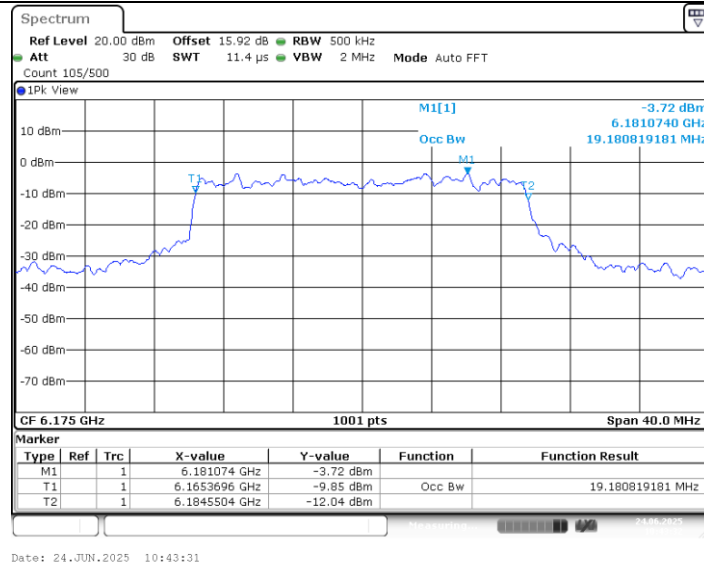
**99% Bandwidth Test Graphs:**

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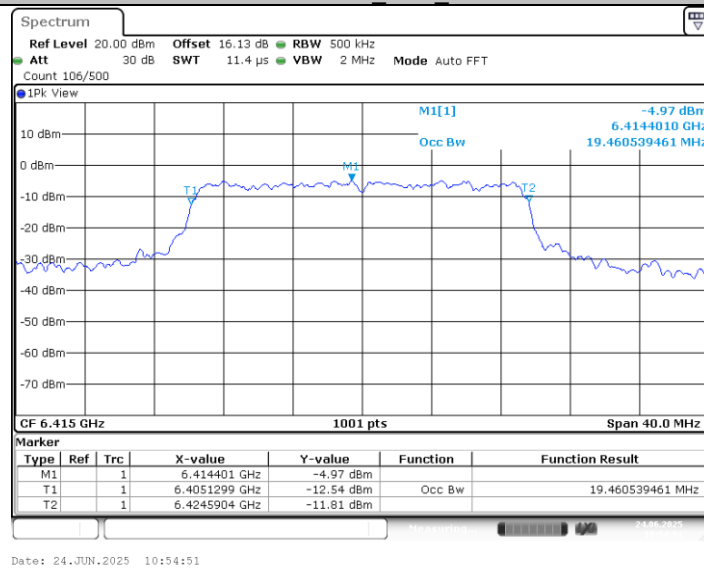
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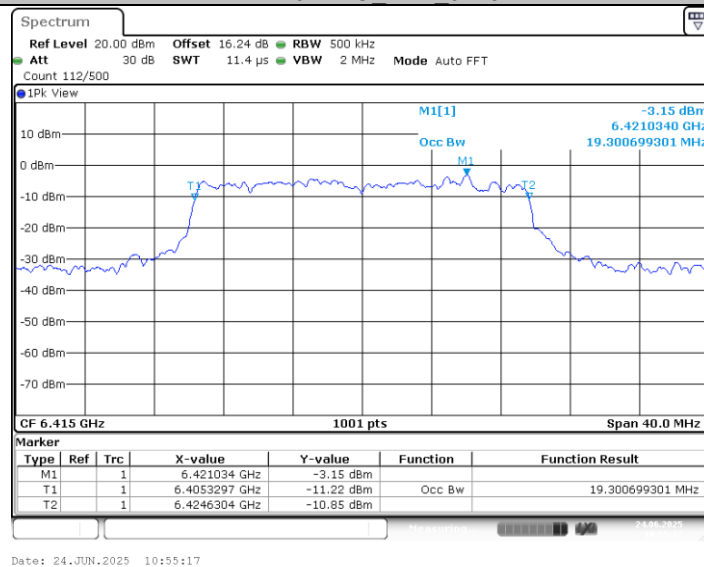
For anti-fake verification, please visit the official website of China Inspection And Testing
Society : yz.cncaq.com



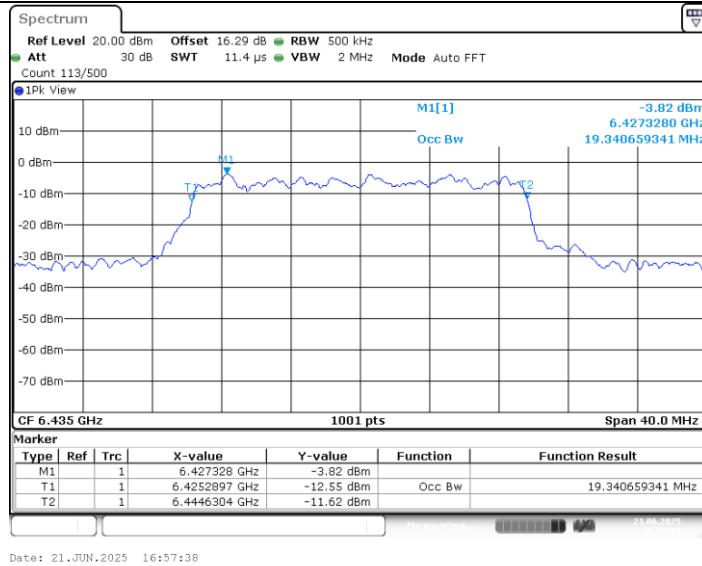
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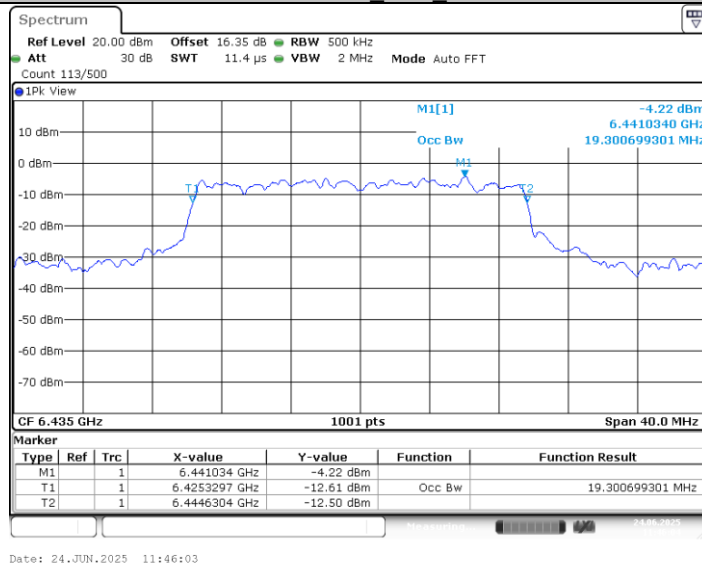
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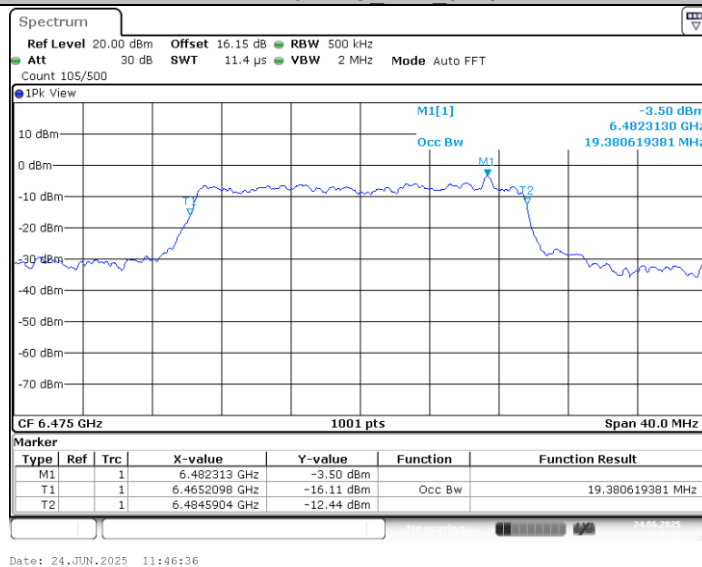
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11AX20MIMO_Ant2_6435



11AX20MIMO_Ant1_6475



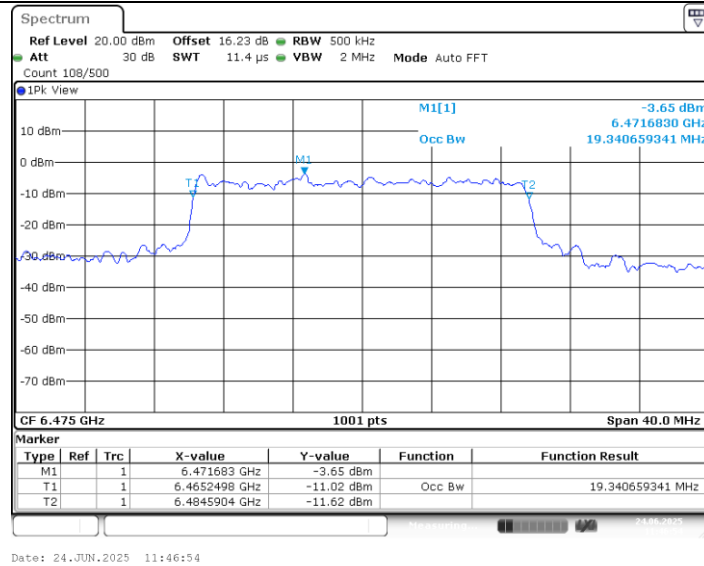
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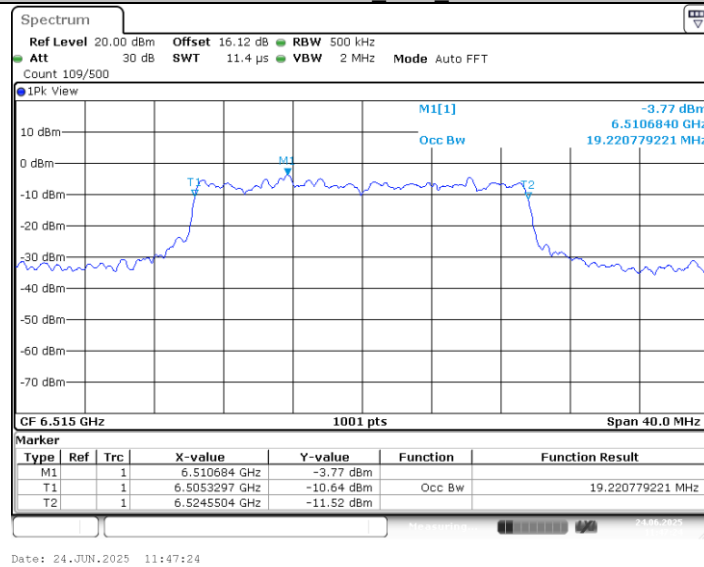
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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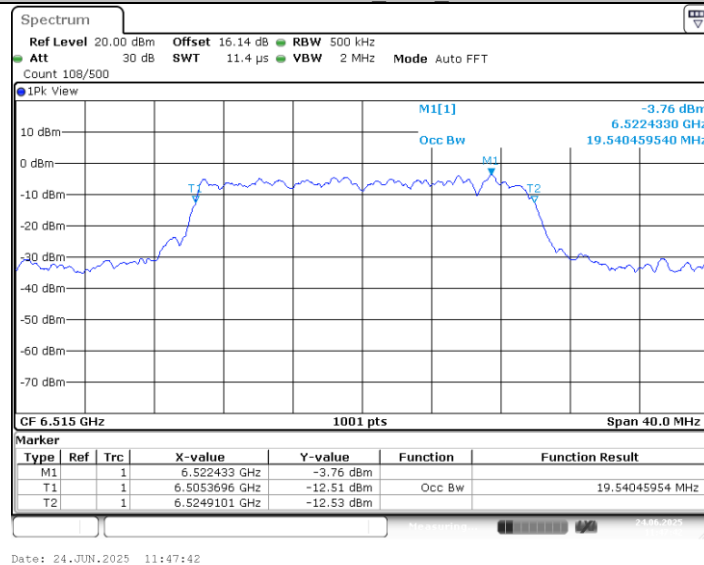
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11AX20MIMO Ant1_6515



11AX20MIMO Ant2_6515



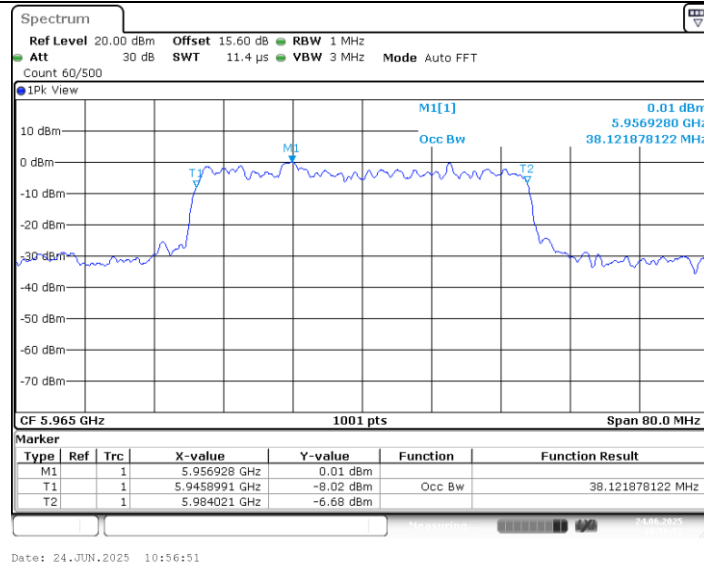
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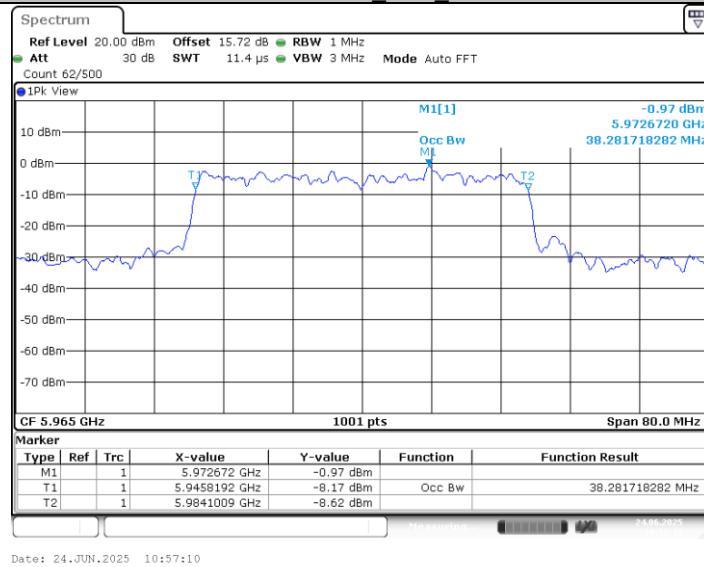
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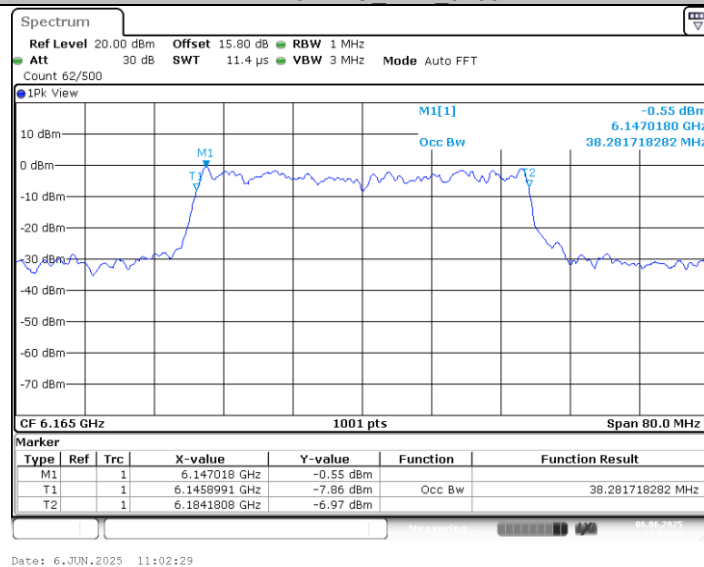
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11AX40MIMO_Ant2_5965



11AX40MIMO_Ant1_6165



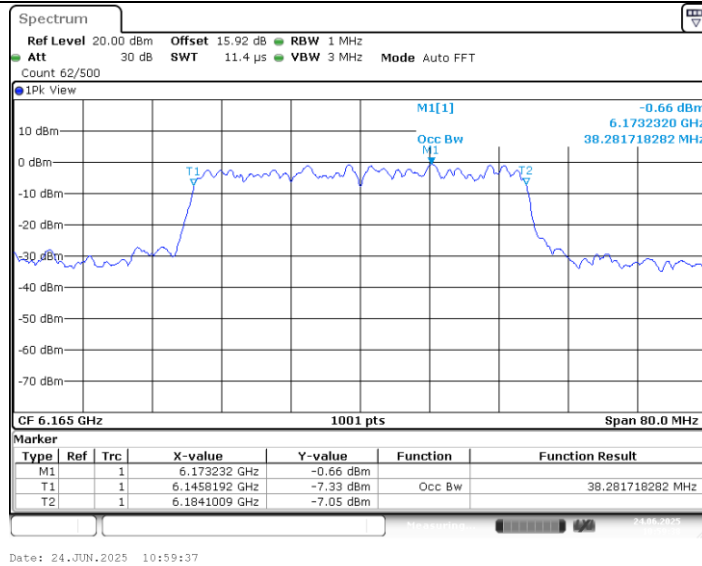
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CTC Laboratories, Inc.

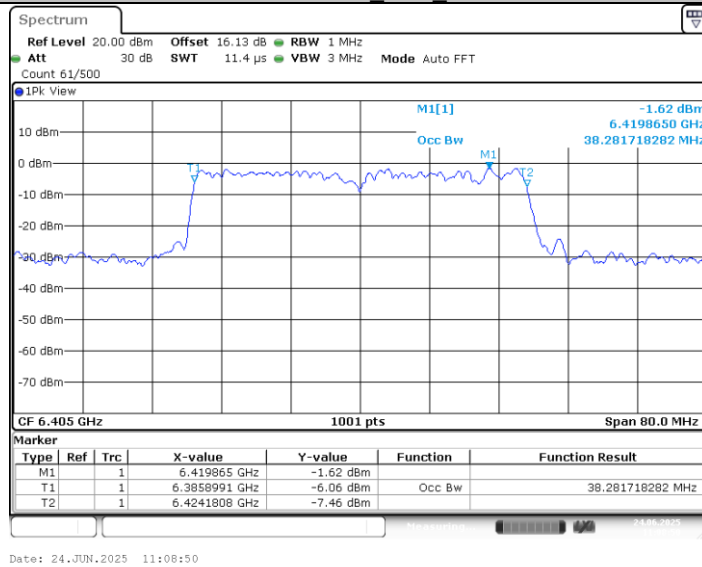
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TRF No: CTC-TR-150_A2

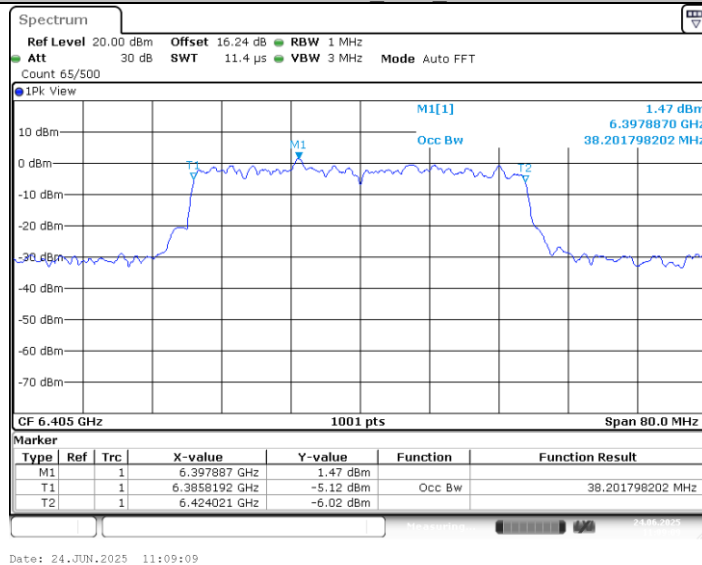
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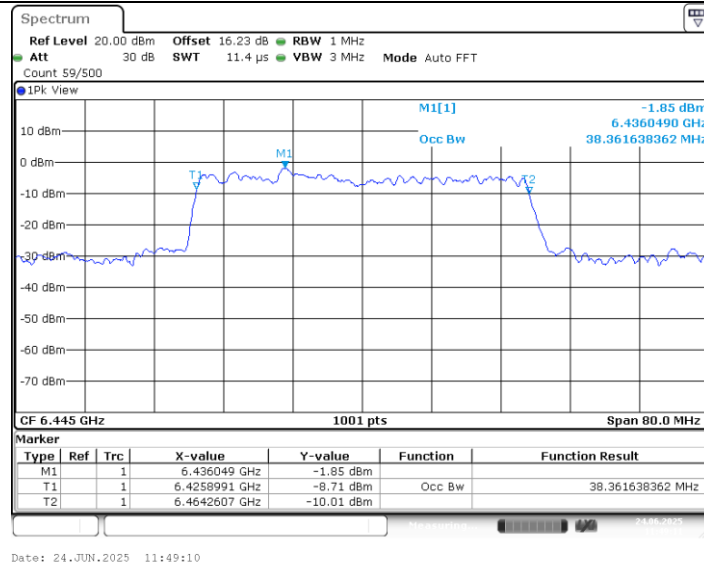
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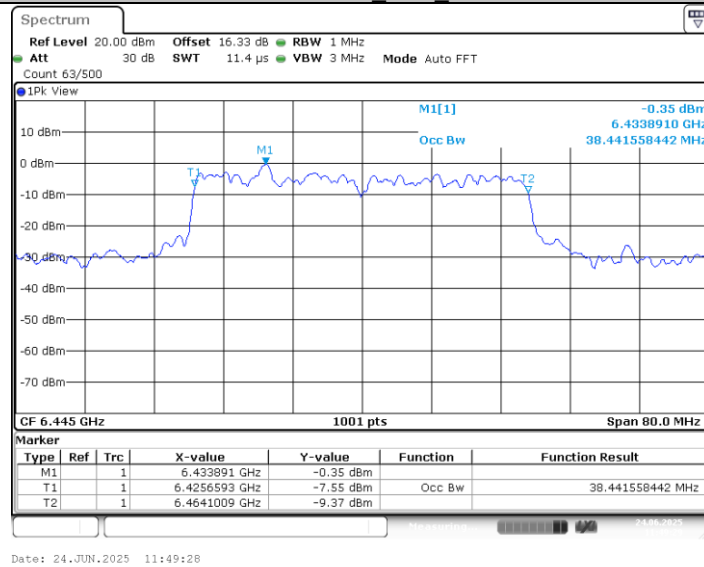
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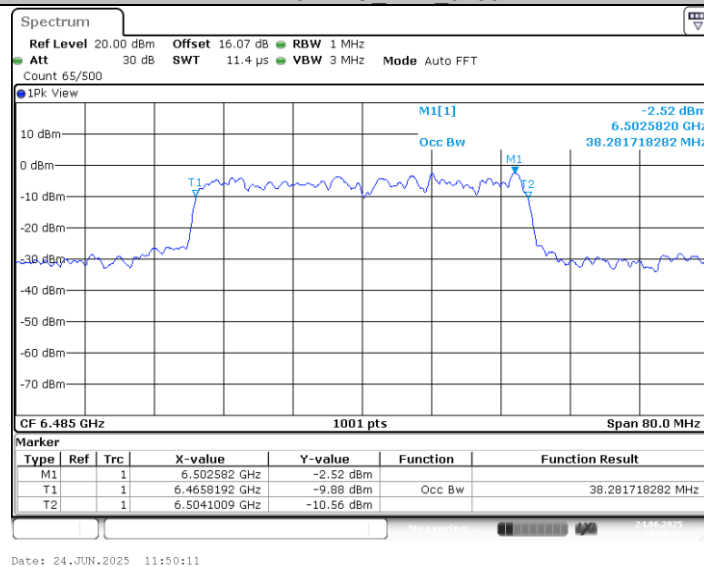
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11AX40MIMO_Ant2_6445



11AX40MIMO_Ant1_6485



11AX40MIMO_Ant2_6485

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