FCC RADIO TEST REPORT

FCC ID	:	**UZ7ZEC500**
Equipment	:	**Enterprise Computer**
Brand Name	:	**Zebra**
Model Name	:	**ZEC500**
Applicant	:	**Zebra Technologies Corporation** **3 Overlook Point, Lincolnshire, IL 60069 USA**
Manufacturer	:	**Zebra Technologies Corporation** **3 Overlook Point, Lincolnshire, IL 60069 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Apr. 25, 2025 and testing was performed from Apr. 30, 2025 to Jun. 17, 2025. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

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History of this test report

Report No.	Version	Description	Issue Date
FR522804G	01	Initial issue of report	Jun. 19, 2025
FR522804G	02	Revise Product Specification of Equipment Under Test This report is an updated version, replacing the report issued on Jun. 19, 2025.	Jun. 24, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(8)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(7)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	
3.6	15.407(b)	Unwanted Emissions	Pass	1.19 dB under the limit at 5896.60 MHz
3.7	15.207	AC Conducted Emission	Pass	6.11 dB under the limit at 13.07 MHz
3.8	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Clio Lo

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Enterprise Computer
Brand Name	Zebra
Model Name	ZEC500
FCC ID	UZ7ZEC500
Sample 1	Premium SKU with FAN, with POE
Sample 2	Premium SKU w/o FAN, with POE
Sample 3	Value SKU with FAN, w/o POE
Sample 4	Value SKU w/o FAN, w/o POE
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV1
SW Version	14-28-18.00-UG-U00-PRD-ATH-04
OS Version	Android 14
MFD	11APR25
EUT Stage	Identical Prototype
Equipment Type	Dual Client

Remark: The EUT's information above is declared by manufacturer.

Specification of Accessories				
Adapter	**Brand Name**	ZEBRA	**Model Name**	PWR-BGA24V78W4WW
Power Cable	**Brand Name**	ZEBRA	**Model Name**	23844-00-00R

Supported Unit Used in Test Configuration and System				
Earphone 1	**Brand Name**	ZEBRA	**Model Name**	HDST-USBC-PTT1-01
USB C to C cable	**Brand Name**	ZEBRA	**Part Number**	CBL-ECX-USBC3A-01
USB A to C cable	**Brand Name**	ZEBRA	**Part Number**	CBL-TC5X-USBC2A-01
Scanner_USB cable 1 (RJ50 to USB-A)	**Brand Name**	ZEBRA	**Part Number**	CBA-UF0-S07PAR
Scanner_USB cable 2 (RJ50 to USB-A)	**Brand Name**	ZEBRA	**Part Number**	CBA-U42-S07PAR
Printer	**Brand Name**	ZEBRA	**Model Name**	ZD230t
2nd display	**Brand Name**	ZEBRA	**Model Name**	TD50-15F00
Scanner	**Brand Name**	ZEBRA	**Part Number**	DS3678
POE	**Brand Name**	ZEBRA	**Part Number**	POE90U-BTAX460-R
USB Cable for printer	**Brand Name**	ZEBRA	**Part Number**	300283-002
Adapter 2	**Brand Name**	ZEBRA	**Model Name**	PWR-BGA12V50W0WW
Cradle	**Brand Name**	ZEBRA	**Part Number**	STB3678

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Channel Frequency Range	5925 MHz ~ 6425 MHz 6425 MHz ~ 6525 MHz 6525 MHz ~ 6875 MHz 6875 MHz ~ 7125 MHz
Maximum Output Power to Antenna <CDD Modes>	**MIMO <Ant. 1+2>:** **<5925 MHz ~ 6425 MHz>** 802.11a: 4.17 dBm / 0.0026 W **<6425 MHz ~ 6525 MHz>** 802.11a: 2.70 dBm / 0.0019 W **<6525 MHz ~ 6875 MHz>** 802.11a: 4.77 dBm / 0.0030 W **<6875 MHz ~ 7125 MHz>** 802.11a: 4.26 dBm / 0.0027 W
Maximum Output Power to Antenna <SDM Modes>	**MIMO <Ant. 1+2>:** **<5925 MHz ~ 6425 MHz>** 802.11ax: HE20: 7.86 dBm / 0.0061 W 802.11ax: HE40: 10.31 dBm / 0.0107 W 802.11ax: HE80: 13.71 dBm / 0.0235 W 802.11ax: HE160: 16.61 dBm / 0.0458 W **<6425 MHz ~ 6525 MHz>** 802.11ax: HE20: 8.92 dBm / 0.0078 W 802.11ax: HE40: 11.56 dBm / 0.0143 W 802.11ax: HE80: 14.36 dBm / 0.0273 W 802.11ax: HE160: 17.11 dBm / 0.0514 W **<6525 MHz ~ 6875 MHz>** 802.11ax: HE20: 8.46 dBm / 0.0070 W 802.11ax: HE40: 11.51 dBm / 0.0142 W 802.11ax: HE80: 14.26 dBm / 0.0267 W 802.11ax: HE160: 17.16 dBm / 0.0520 W **<6875 MHz ~ 7125 MHz>** 802.11ax: HE20: 7.61 dBm / 0.0058 W 802.11ax: HE40: 10.96 dBm / 0.0125 W 802.11ax: HE80: 13.56 dBm / 0.0227 W 802.11ax: HE160: 16.56 dBm / 0.0453 W
99% Occupied Bandwidth <CDD Modes>	**MIMO <Ant. 1>** 802.11a: 16.90 MHz **MIMO <Ant. 2>** 802.11a: 16.86 MHz
99% Occupied Bandwidth <SDM Modes>	**MIMO <Ant. 1>** 802.11ax: HE20: 19.00 MHz 802.11ax: HE40: 38.02 MHz 802.11ax: HE80: 77.21 MHz 802.11ax: HE160: 156.43 MHz **MIMO <Ant. 2>** 802.11ax: HE20: 19.04 MHz 802.11ax: HE40: 38.12 MHz 802.11ax: HE80: 77.23 MHz 802.11ax: HE160: 156.44 MHz

Product Specification is subject to this standard	
Antenna Type	**<Ant. 1>:** PIFA Antenna **<Ant. 2>:** Dipole Antenna
Antenna Gain	**<5925 MHz ~ 6425 MHz>** **<Ant. 1>: Max:** 3.61 dBi **Min:** 2.31 dBi **<Ant. 2>: Max:** 3.85 dBi **Min:** 2.98 dBi **<6425 MHz ~ 6525 MHz>** **<Ant. 1>: Max:** 2.31 dBi **Min:** 2.23 dBi **<Ant. 2>: Max:** 3.04 dBi **Min:** 2.98 dBi **<6525 MHz ~ 6875 MHz>** **<Ant. 1>: Max:** 2.94 dBi **Min:** 2.23 dBi **<Ant. 2>: Max:** 3.04 dBi **Min:** 2.34 dBi **<6875 MHz ~ 7125 MHz>** **<Ant. 1>: Max:** 3.27 dBi **Min:** 2.94 dBi **<Ant. 2>: Max:** 3.98 dBi **Min:** 3.34 dBi
Type of Modulation	802.11a : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Antenna Function Description	

	Ant. 1	Ant. 2
802.11a/ax MIMO	V	V
802.11ax TXBF	V	V

Remark:

1. MIMO Ant. 1+2 Directional Gain is a calculated result from MIMO Ant. 1 and MIMO Ant. 2. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 1 + Ant. 2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
3. The device WIFI MIMO support 1S2T (CDD & Tx Beamforming) (Nss=1) mode& SDM (2S2T :Nss=2) mode by manufacturer declared.
4. For 802.11a, it does not support SDM & Tx Beamforming so the correlated gain for CDD is applied.
5. For 802.11ax mode, in SDM mode the conducted power is set to 3dB higher than TXBF/CDD, Since the maximum array gain for a two antenna system is 3dB so the TXBF/CDD compliance is met by testing SDM mode as worst mode for LPI power mode.
6. 802.11ax support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is not greater than CDD&SDM mode, so CDD&SDM mode covers Tx Beamforming mode.
7. The device supports 1S2T (CDD & Tx Beamforming) and 2S2T (SDM) mode; 1S2T: Nss=1, MIMO 2Tx; 2S2T: Nss=2, MIMO 2Tx.
8. 802.11ax support full RU tone and partial RU tone, both full RU and partial are tested for conducted power/PSD in appendix A, for Channel Mask in section 3.4.5, all the other test case were performed with full RU with its maximum power/PSD.
9. The EUT does not support channel puncturing mode.
10. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	3.61	3.85	3.85	6.74
6425 MHz ~ 6525 MHz	2.31	3.04	3.04	5.69
6525 MHz ~ 6875 MHz	2.94	3.04	3.04	6.00
6875 MHz ~ 7125 MHz	3.27	3.98	3.98	6.64

Calculation example:

If a device has two antenna, G_{ANT1}= 3.61dBi; G_{ANT2}=3.85dBi

Directional gain of power measurement = max(3.61, 3.85) + 0 = 3.85 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (3.61 dBi / 20) + 10^ (3.85 dBi / 20)] ^ 2 } / 2 }

= 6.74 dBi

<For SDM Mode>

SDM mode all transmit signals are completely uncorrelated, then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)d)ii)

The Directional gain = $10*\log[(10^{G1/10} + 10^{G2/10} + \ldots + 10^{GN/10}) / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	3.61	3.85	3.73	3.73
6425 MHz ~ 6525 MHz	2.31	3.04	2.69	2.69
6525 MHz ~ 6875 MHz	2.94	3.04	2.99	2.99
6875 MHz ~ 7125 MHz	3.27	3.98	3.64	3.64

Calculation example:

If a device has two antenna, G_{ANT1}= 3.61dBi; G_{ANT2}=3.85dBi

Directional gain is derived from formula which is

10 x log { { [10^ (3.61 dBi / 10) + 10^ (3.85 dBi / 10)] } / 2 }

= 3.73 dBi

<For TXBF Modes>

The EUT supports beamforming modes then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The directional gain "DG" is calculated as following table.

	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	3.61	3.85	6.74	6.74
6425 MHz ~ 6525 MHz	2.31	3.04	5.69	5.69
6525 MHz ~ 6875 MHz	2.94	3.04	6.00	6.00
6875 MHz ~ 7125 MHz	3.27	3.98	6.64	6.64

Calculation example:

Directional gain is derived from formula which is

10 x log { { [10^ (3.61 dBi / 20) + 10^ (3.85 dBi / 20)] ^ 2 } / 2 } = 6.74 dBi

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	DF02-HY (TAF Code: 1190)
Remark	The Contention Based Protocol test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH22-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, , the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or PoE), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

BW 20M	**Channel**	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	**Channel**	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	**Channel**	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	**Channel**	15							
	Freq. (MHz)	6025							

BW 20M	**Channel**	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	**Channel**	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	**Channel**	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	**Channel**	47							
	Freq. (MHz)	6185							

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							

BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							

BW 20M	Channel	225	229
	Freq. (MHz)	7075	7095
BW 40M	Channel	227	
	Freq. (MHz)	7085	

BW 20M	Channel	233
	Freq. (MHz)	7115

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The final test modes include the worst data rates for each modulation shown in the table below.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

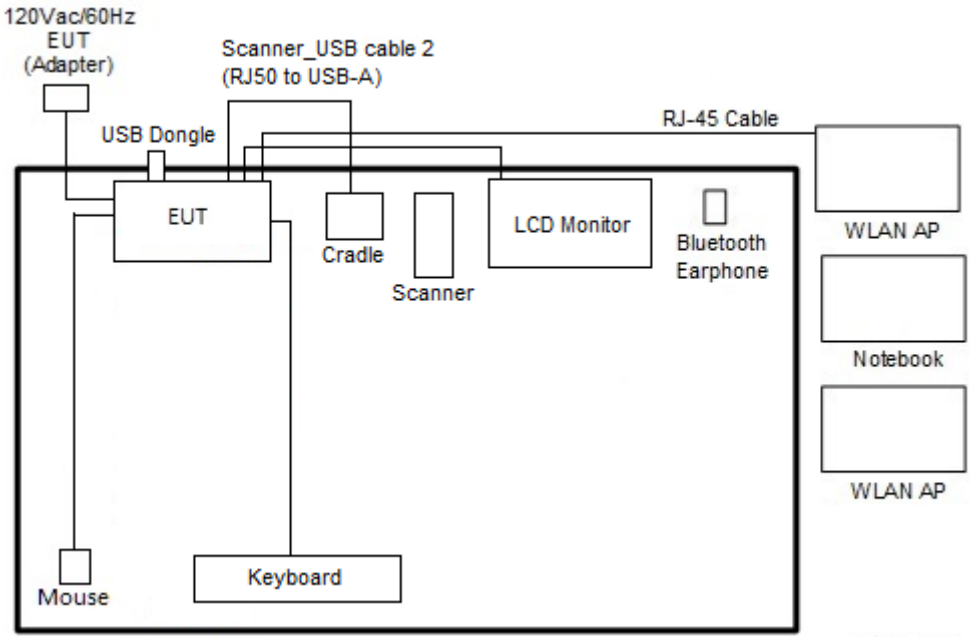
Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (6GHz) Link + Bluetooth Link + Scan Bar Code + HDMI Display with Monitor + USB-C Data link with USB Dongle (SD Card to Dongle) + USB-A (1) with Cradle (Scanner) + USB-A (2) with Mouse + USB-A (3) with Keyboard + LAN link with WLAN AP and Notebook for Sample 1

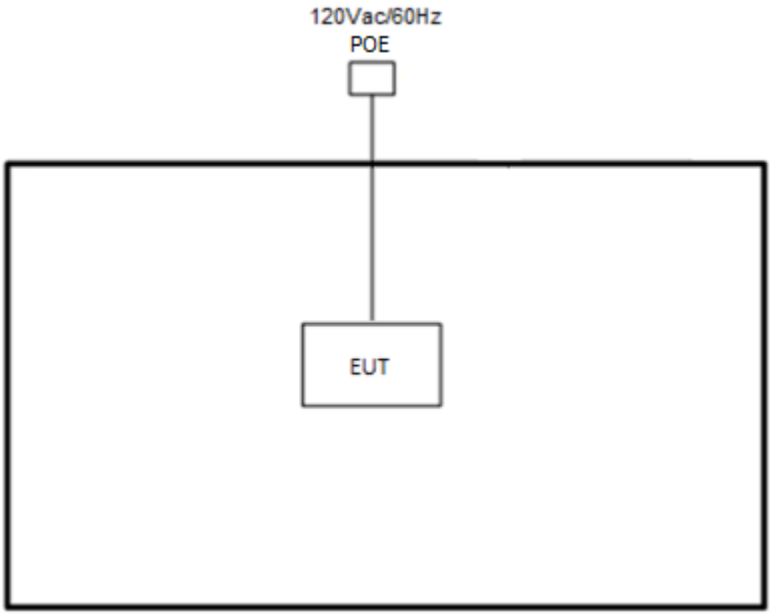
Remark:
1. For Radiated Test Cases, the tests were performed with Sample 1.
2. The detailed Radiated test modes are shown in Appendix C.
3. Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.
4. Data Link with USB Dongle means data application transferred mode between EUT and USB Dongle.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	Unshielded, 1.8 m
3.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
4.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Keyboard	ACER	PR1101U	FCC DoC	Shielded, 1.55m	N/A
6.	Mouse	Lenovo	MOC9ULA	FCC DoC	Shielded, 1.7m	N/A
7.	LCD MONITOR	Dell	U2410	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
8.	USB Dongle	SanDisk	jetflesh	FCC DoC	N/A	N/A
9.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT.Version 4.0.211.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

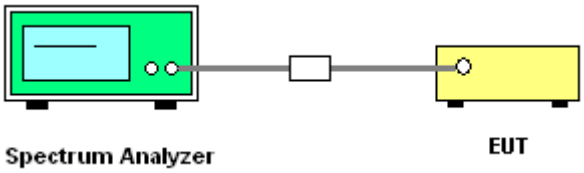
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access

point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

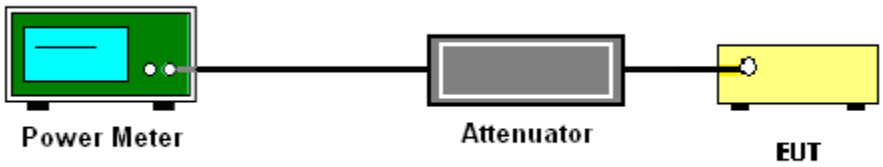
<CDD and SDM Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band,

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed −1 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

<CDD and SDM Modes>

 # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

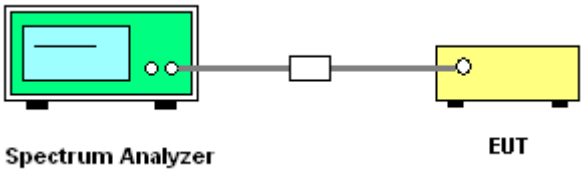
1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (a): Measure and sum the spectra across the outputs.

   The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

Section J) In-Band Emissions.

1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:

   a) Set the span to encompass the entire 26 dB EBW of the signal.

   b) Set RBW = same RBW used for 26 dB EBW measurement.

   c) Set VBW ≥ 3 X RBW

   d) Number of points in sweep ≥ [2 X span / RBW].

   e) Sweep time = auto.

   f) Detector = RMS (i.e., power averaging)

   g) Trace average at least 100 traces in power averaging (rms) mode.

   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

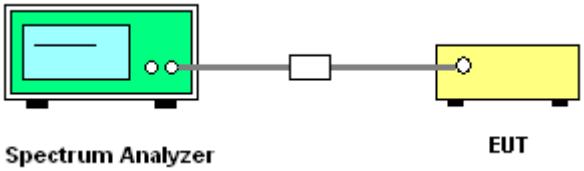
   a. Suppressed by 20 dB at 1 MHz outside of the channel edge.

   b. Suppressed by 28 dB at one channel bandwidth from the channel center.

   c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

4. Adjust the span to encompass the entire mask as necessary.
5. Clear trace.
6. Trace average at least 100 traces in power averaging (rms) mode.
7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup



3.4.5 Test Result

Please refer to Appendix A.

3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

where:

$BWEUT$: Transmission bandwidth of EUT signal

$BWInc$: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

$fc1$: Center frequency of EUT transmission

$fc2$: Center frequency of simulated incumbent signal

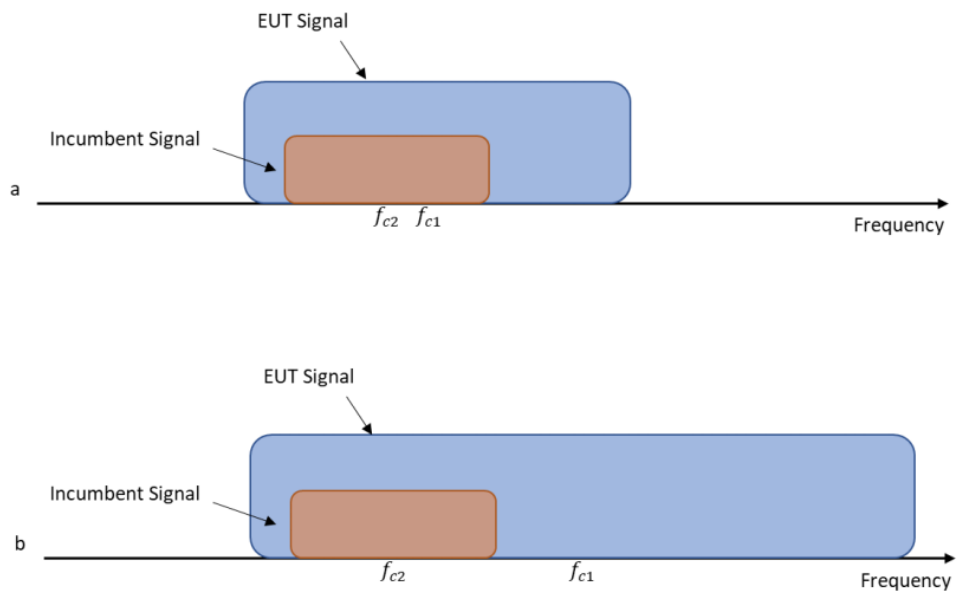


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.
Section I) Contention Based Protocol
Conducted method Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in test setup Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.
12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

3.5.4 Test Setup

Conducted Setup

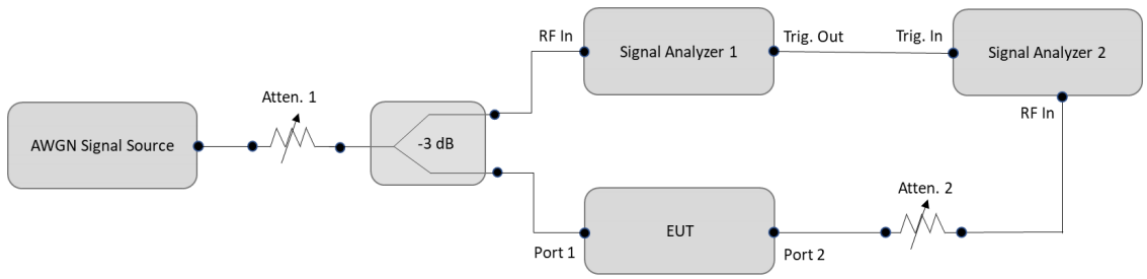


Figure 2. Contention-based protocol test setup, conducted method Step-by-Step Procedure, Conducted Setup

3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	Acer	N15C1	LAN

3.5.6 Antenna gain for Contention Based Protocol Test

CBP Antenna Gain	<UNII-5>: 2.31 dBi <UNII-6>: 2.23 dBi <UNII-7>: 2.23 dBi <UNII-8>: 2.34 dBi

3.5.7 Test Summary of Contention Based Protocol Test

Test Engineer :	Ray Wang	Temperature :	21.2~23.4℃
		Relative Humidity :	48.6~53.2%

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-71.80	100	-62	-74.11	12.11
					Result: Stop Transmission			
				-80.80	< 90	-62	-83.11	21.11
					Result: Minimal Operation			
				-81.80	0	-62	-84.11	22.11
					Result: Normal Operation			
	6185	160	6110	-74.94	100	-62	-77.25	15.25
					Result: Stop Transmission			
				-77.94	< 90	-62	-80.25	18.25
					Result: Minimal Operation			
				-78.94	0	-62	-81.25	19.25
					Result: Normal Operation			
			6185	-67.82	100	-62	-70.13	8.13
					Result: Stop Transmission			
				-72.82	< 90	-62	-75.13	13.13
					Result: Minimal Operation			
				-73.82	0	-62	-76.13	14.13
					Result: Normal Operation			
			6260	-74.62	100	-62	-76.93	14.93
					Result: Stop Transmission			
				-78.62	< 90	-62	-80.93	18.93
					Result: Minimal Operation			
				-79.62	0	-62	-81.93	19.93
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (2.31 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 6	6455	20	6455	-71.09	100	-62	-73.32	11.32
					Result: Stop Transmission			
				-81.09	< 90	-62	-83.32	21.32
					Result: Minimal Operation			
				-82.09	0	-62	-84.32	22.32
					Result: Normal Operation			
	6505	160	6430	-73.17	100	-62	-75.40	13.40
					Result: Stop Transmission			
				-77.17	< 90	-62	-79.40	17.40
					Result: Minimal Operation			
				-78.17	0	-62	-80.40	18.40
					Result: Normal Operation			
			6505	-67.29	100	-62	-69.52	7.52
					Result: Stop Transmission			
				-72.29	< 90	-62	-74.52	12.52
					Result: Minimal Operation			
				-73.29	0	-62	-75.52	13.52
					Result: Normal Operation			
			6580	-74.46	100	-62	-76.69	14.69
					Result: Stop Transmission			
				-77.46	< 90	-62	-79.69	17.69
					Result: Minimal Operation			
				-78.46	0	-62	-80.69	18.69
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (2.23 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-70.99	100	-62	-73.22	11.22
					Result: Stop Transmission			
				-81.99	< 90	-62	-84.22	22.22
					Result: Minimal Operation			
				-82.99	0	-62	-85.22	23.22
					Result: Normal Operation			
	6665	160	6590	-75.16	100	-62	-77.39	15.39
					Result: Stop Transmission			
				-79.16	< 90	-62	-81.39	19.39
					Result: Minimal Operation			
				-80.16	0	-62	-82.39	20.39
					Result: Normal Operation			
			6665	-68.56	100	-62	-70.79	8.79
					Result: Stop Transmission			
				-72.56	< 90	-62	-74.79	12.79
					Result: Minimal Operation			
				-73.56	0	-62	-75.79	13.79
					Result: Normal Operation			
			6740	-75.83	100	-62	-78.06	16.06
					Result: Stop Transmission			
				-78.83	< 90	-62	-81.06	19.06
					Result: Minimal Operation			
				-79.83	0	-62	-82.06	20.06
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (2.23 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.

Note 3: Margin = Regulated Threshold level - Adjusted Power.

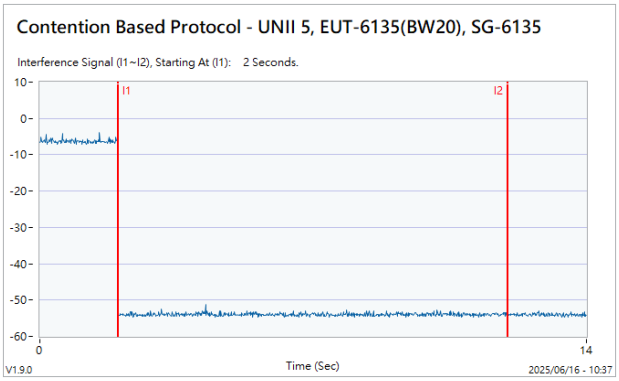
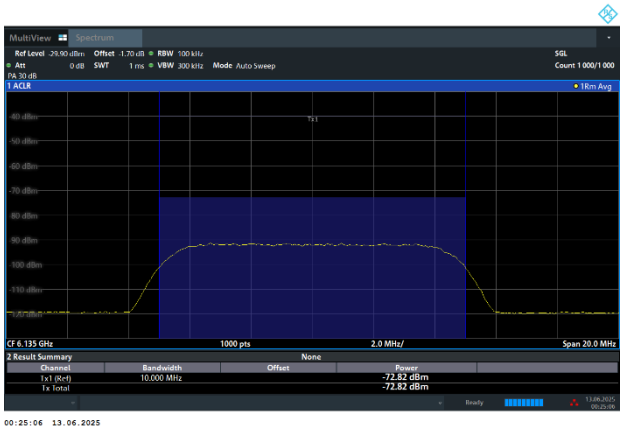
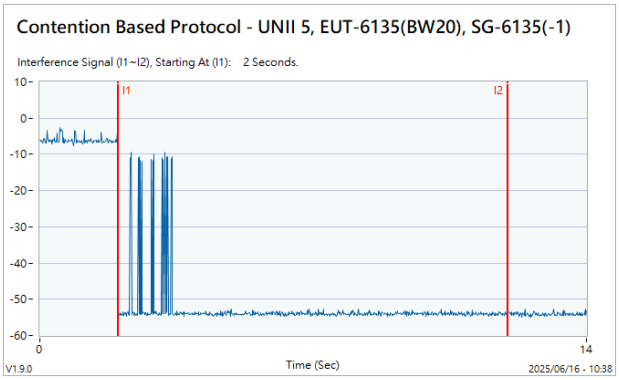
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
UNII Band 8	7015	20	7015	-72.25	100	-62	-74.59	12.59
					Result: Stop Transmission			
				-80.25	< 90	-62	-82.59	20.59
					Result: Minimal Operation			
				-81.25	0	-62	-83.59	21.59
					Result: Normal Operation			
	6985	160	6910	-72.40	100	-62	-74.74	12.74
					Result: Stop Transmission			
				-77.40	< 90	-62	-79.74	17.74
					Result: Minimal Operation			
				-78.40	0	-62	-80.74	18.74
					Result: Normal Operation			
			6985	-65.44	100	-62	-67.78	5.78
					Result: Stop Transmission			
				-70.14	< 90	-62	-72.48	10.48
					Result: Minimal Operation			
				-71.14	0	-62	-73.48	11.48
					Result: Normal Operation			
			7060	-73.44	100	-62	-75.78	13.78
					Result: Stop Transmission			
				-76.44	< 90	-62	-78.78	16.78
					Result: Minimal Operation			
				-77.44	0	-62	-79.78	17.78
					Result: Normal Operation			

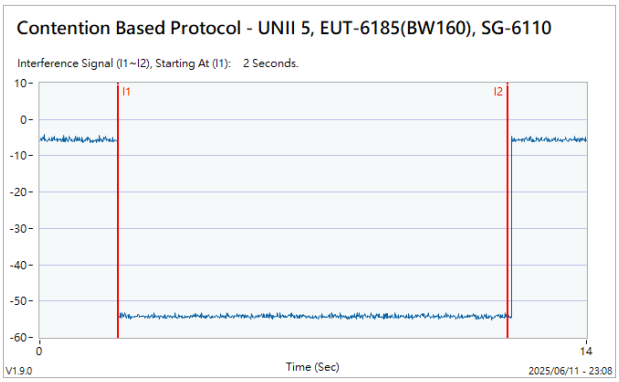
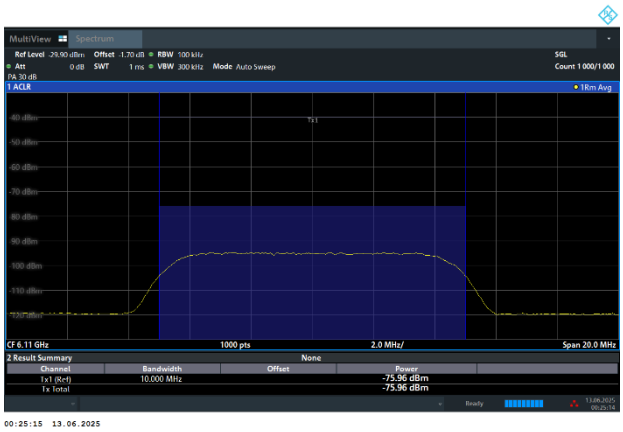
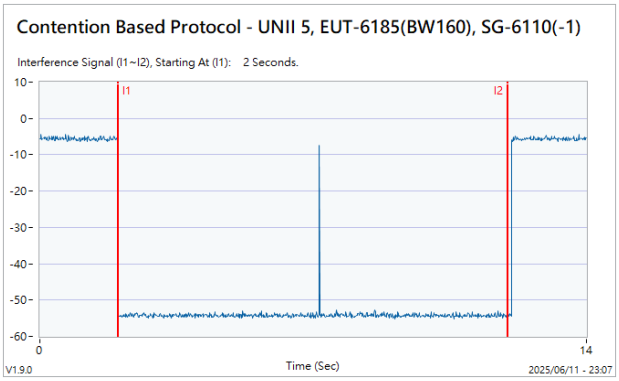
Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (2.34 dBi).

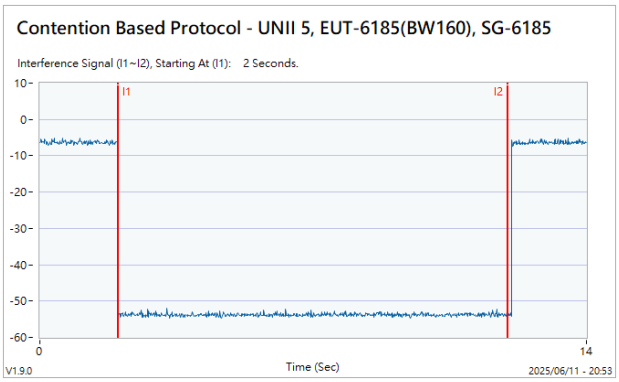
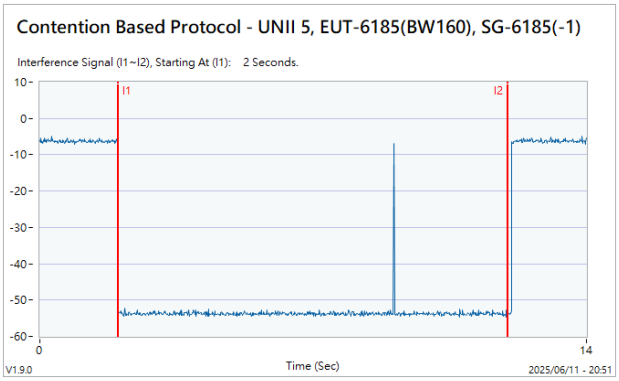
Note 2: The antenna gain has included the path loss between RF connector and antenna.

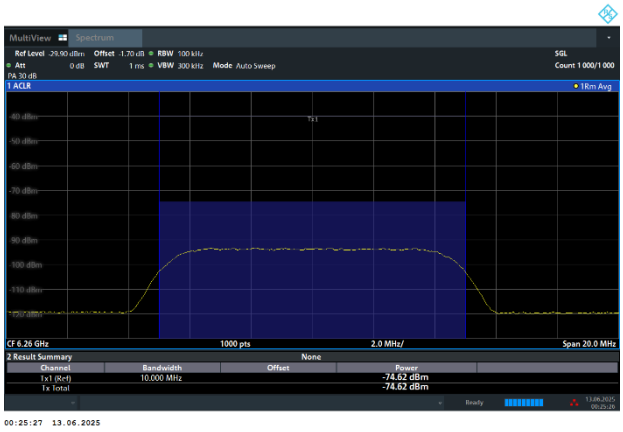
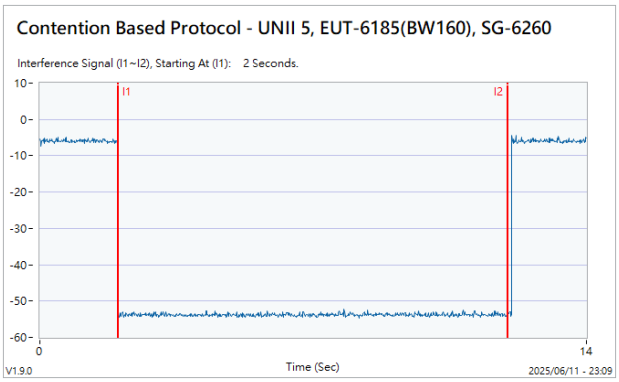
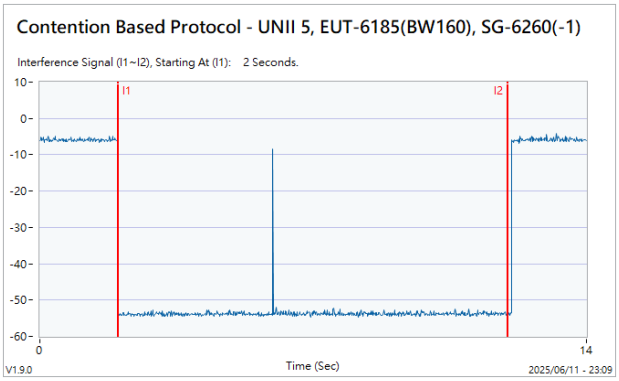
Note 3: Margin = Regulated Threshold level - Adjusted Power.

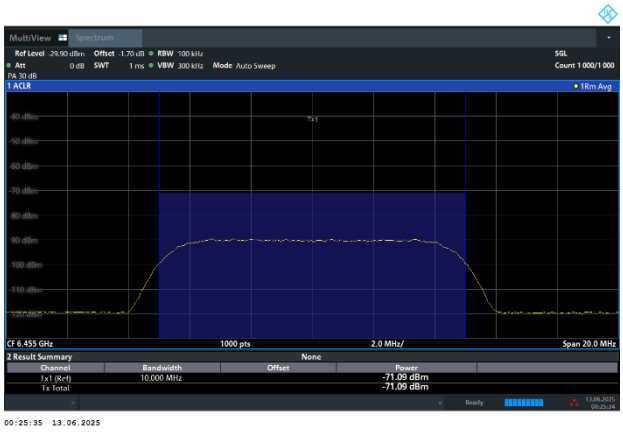
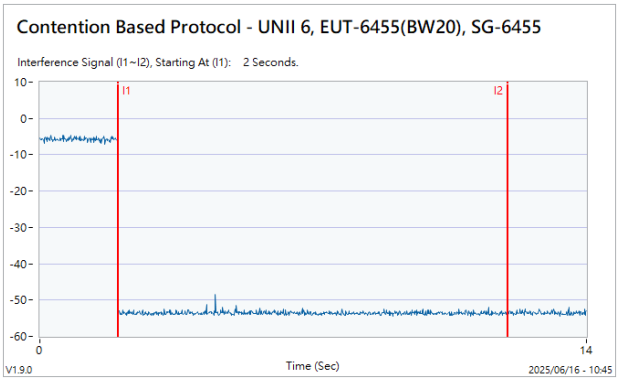
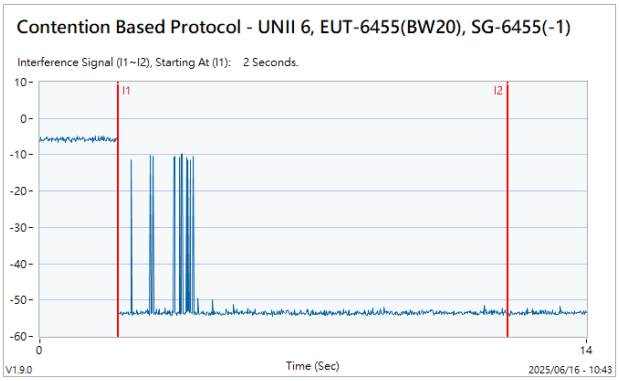
3.5.8 Test Plots of Contention Based Protocol Test

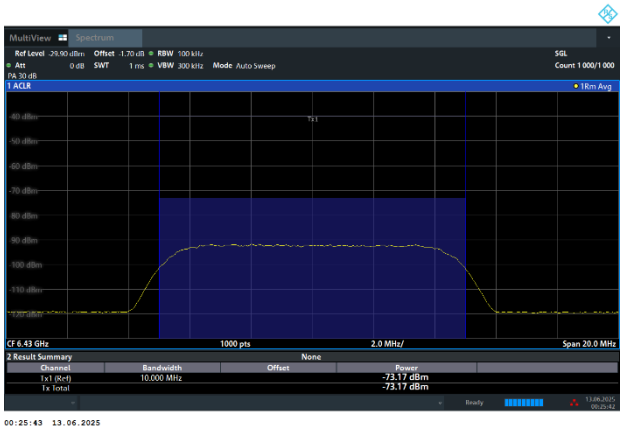
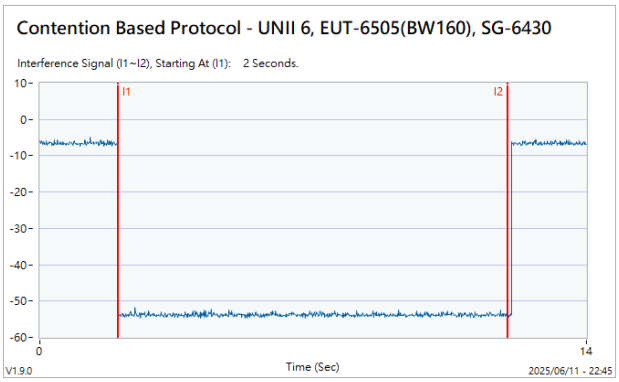
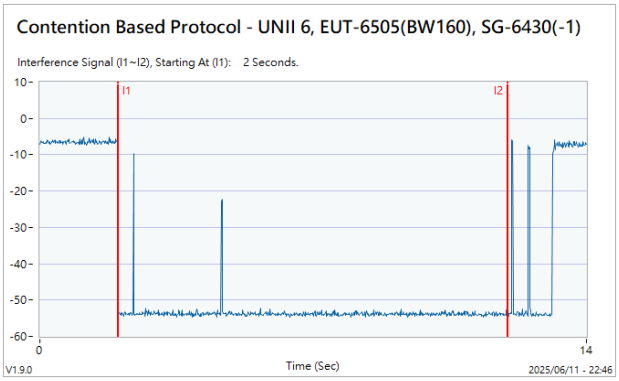
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -71.80dBm	802.11ax (HE20) / CH37 Test result is pass due to no transmission occur.
	[CBP6135] 
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -72.82dBm	802.11ax (HE20) / CH37 Transmit when the interferer is 1dB lower.
	[CBP6135_1] 

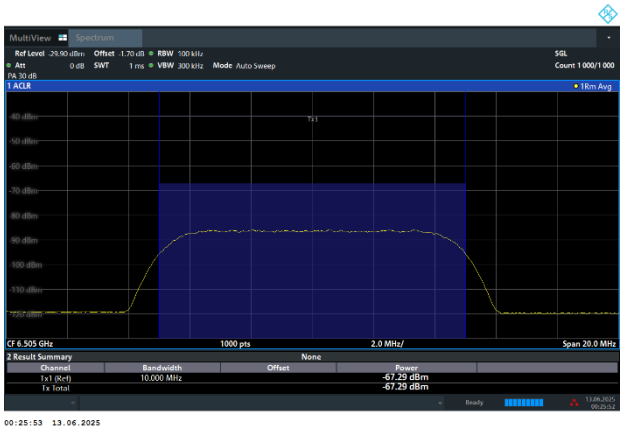
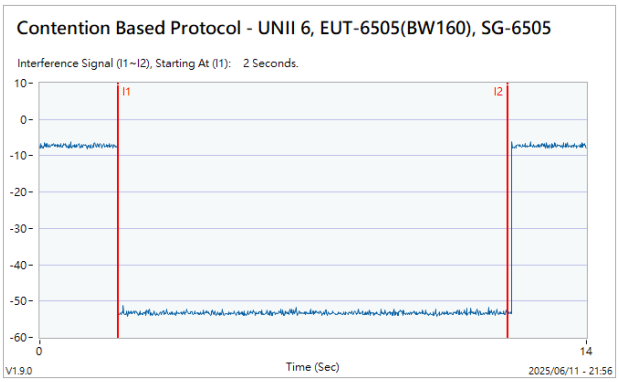
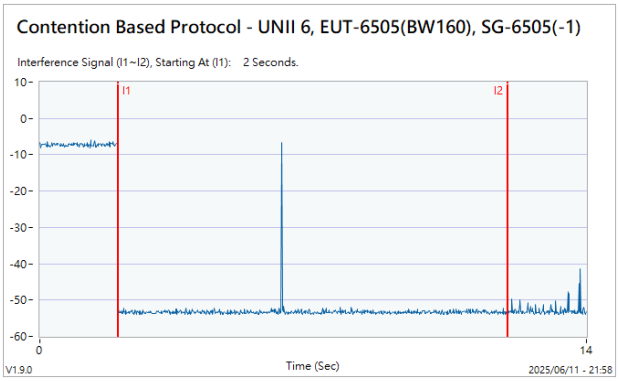
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE160) / 6110MHz (Lower edge) Threshold Level (TL) = -74.94dBm	802.11ax (HE160) / CH47 (Lower edge) Test result is pass due to no transmission occur.
 	 [CBP6110]
802.11ax (HE160) / 6110MHz (Lower edge) Threshold Level (TL) = -75.96dBm	802.11ax (HE160) / CH47 (Lower edge) Transmit when the interferer is 1dB lower.
 	 [CBP6110_1]

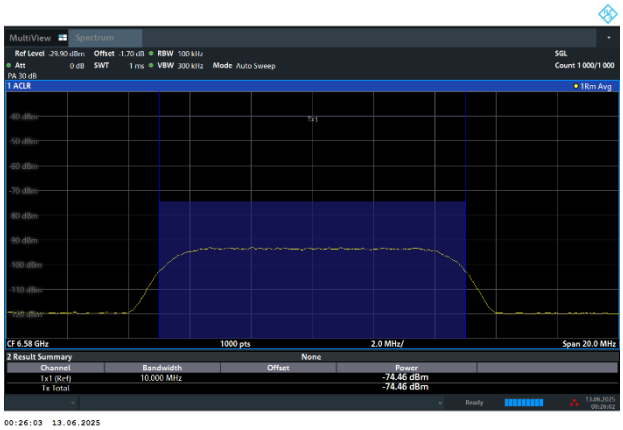
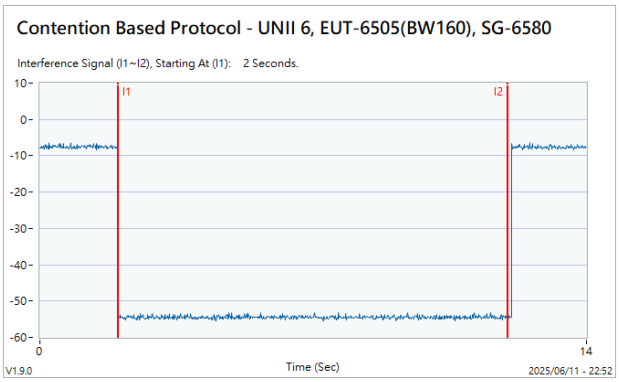
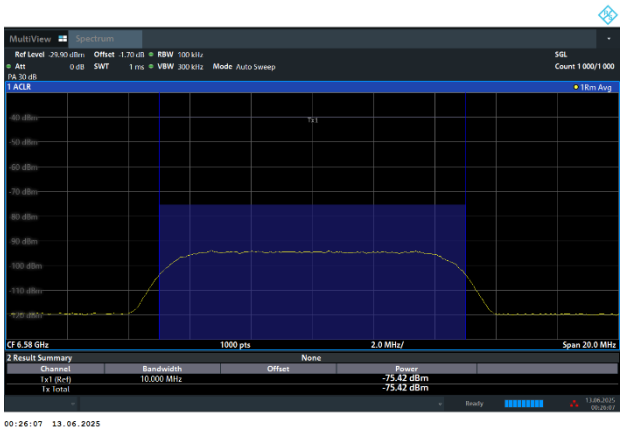
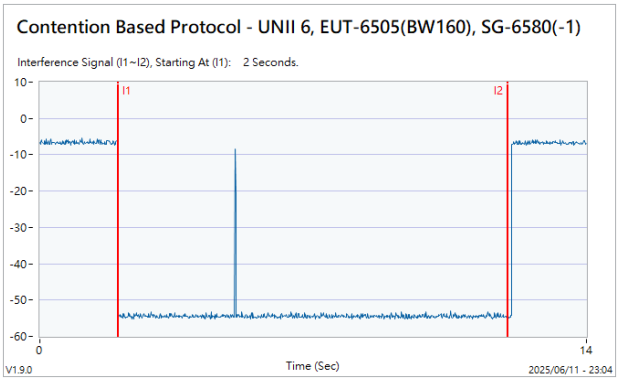
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE160) / 6185MHz (Middle) Threshold Level (TL) = -67.82dBm	802.11ax (HE160) / CH47 (Middle) Test result is pass due to no transmission occur.
	 [CBP6185]
802.11ax (HE160) / 6185MHz (Middle) Threshold Level (TL) = -68.87dBm	802.11ax (HE160) / CH47 (Middle) Transmit when the interferer is 1dB lower.
	 [CBP6185_1]

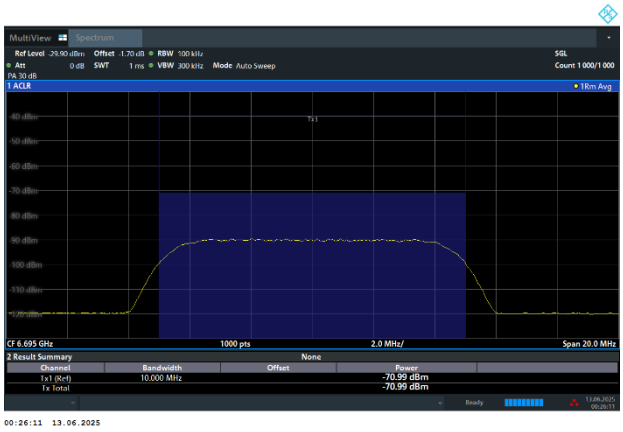
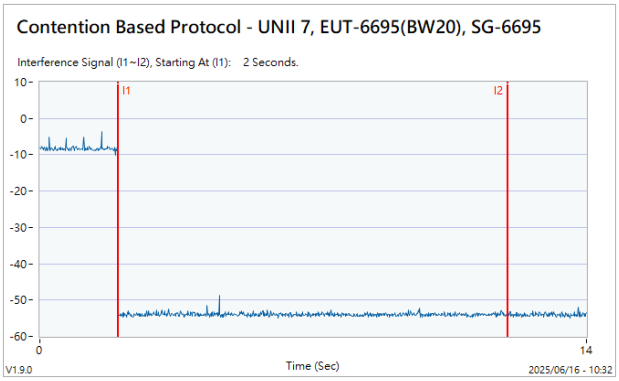
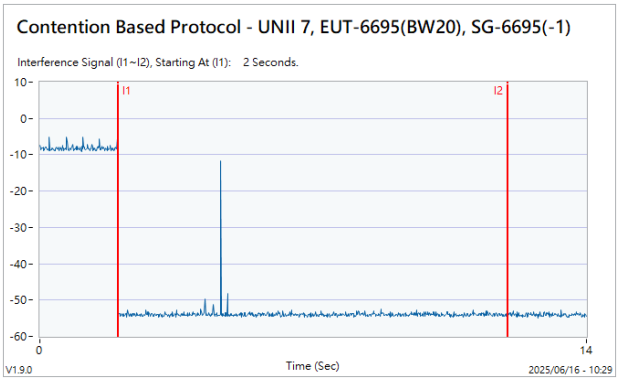
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE160) / 6260MHz (Upper edge) Threshold Level (TL) = -74.62dBm	802.11ax (HE160) / CH47 (Upper edge) Test result is pass due to no transmission occur.
	 [CBP6260]
802.11ax (HE160) / 6260MHz (Upper edge) Threshold Level (TL) = -75.61dBm	802.11ax (HE160) / CH47 (Upper edge) Transmit when the interferer is 1dB lower.
	 [CBP6260_1]

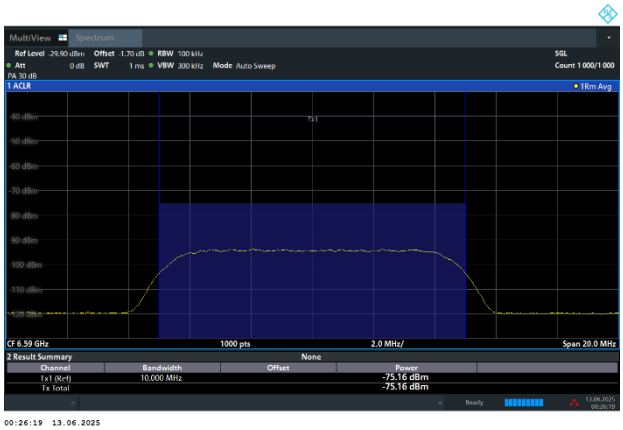
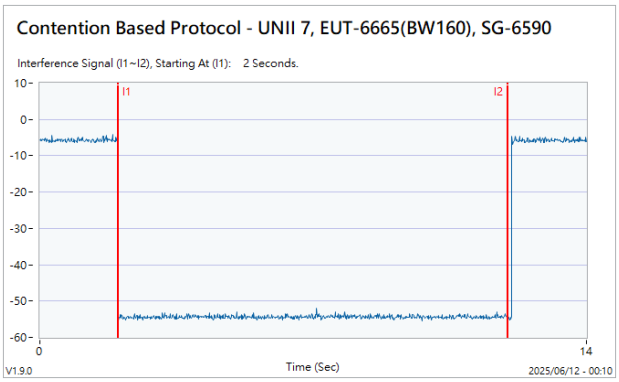
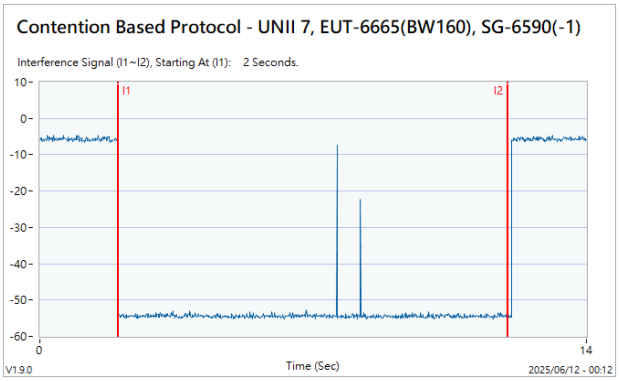
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)	
802.11ax (HE20) / 6455MHz Threshold Level (TL) = -71.09dBm	802.11ax (HE20) / CH101 Test result is pass due to no transmission occur.
	[CBP6455] 
802.11ax (HE20) / 6455MHz Threshold Level (TL) = -72.05dBm	802.11ax (HE20) / CH101 Transmit when the interferer is 1dB lower.
	[CBP6455_1] 

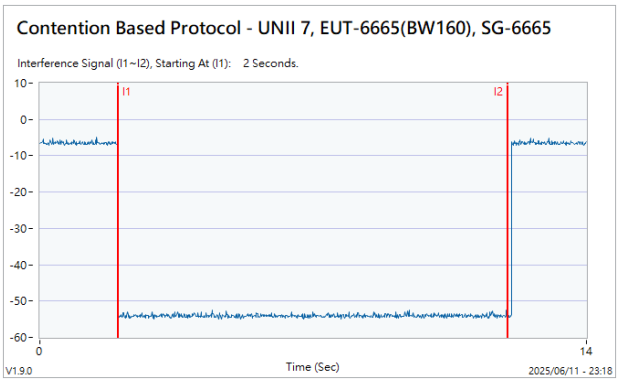
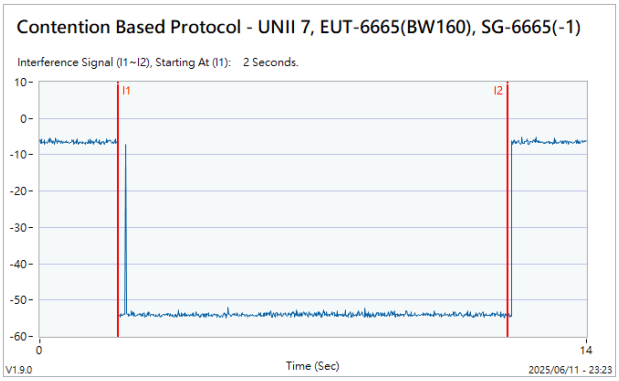
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)	
802.11ax (HE160) / 6430MHz (Lower edge) Threshold Level (TL) = -73.17dBm	802.11ax (HE160) / CH111 (Lower edge) Test result is pass due to no transmission occur.
	 [CBP6430]
802.11ax (HE160) / 6430MHz (Lower edge) Threshold Level (TL) = -74.17dBm	802.11ax (HE160) / CH111 (Lower edge) Transmit when the interferer is 1dB lower.
	 [CBP6430_1]

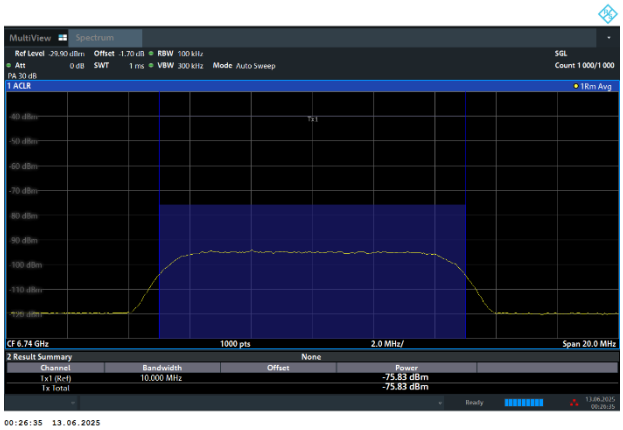
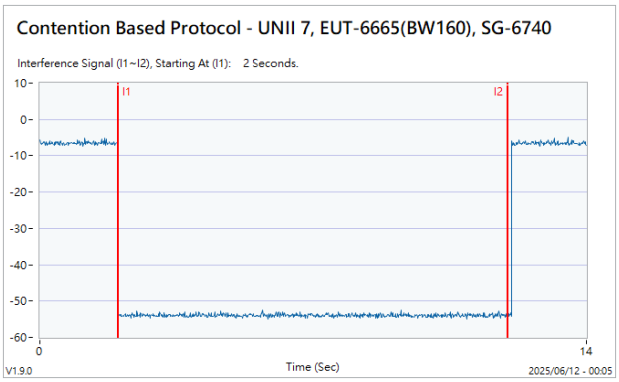
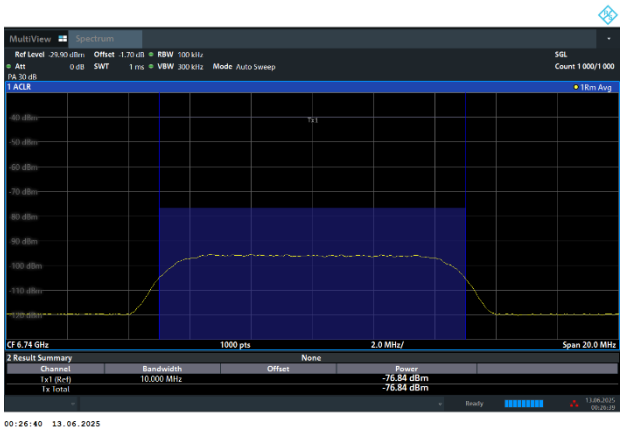
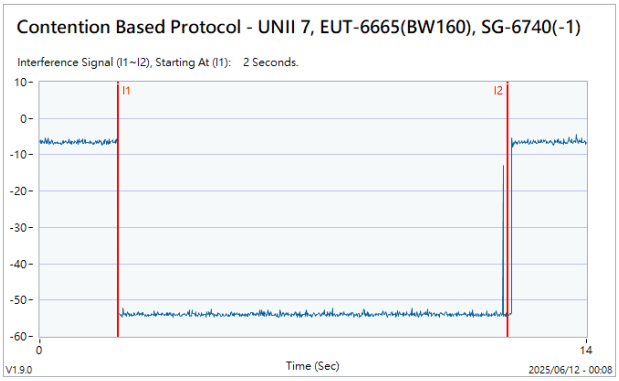
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)	
802.11ax (HE160) / 6505MHz (Middle) Threshold Level (TL) = -67.29dBm	802.11ax (HE160) / CH111 (Middle) Test result is pass due to no transmission occur.
 	 [CBP6505]
802.11ax (HE160) / 6505MHz (Middle) Threshold Level (TL) = -68.28dBm	802.11ax (HE160) / CH111 (Middle) Transmit when the interferer is 1dB lower.
 	 [CBP6505_1]

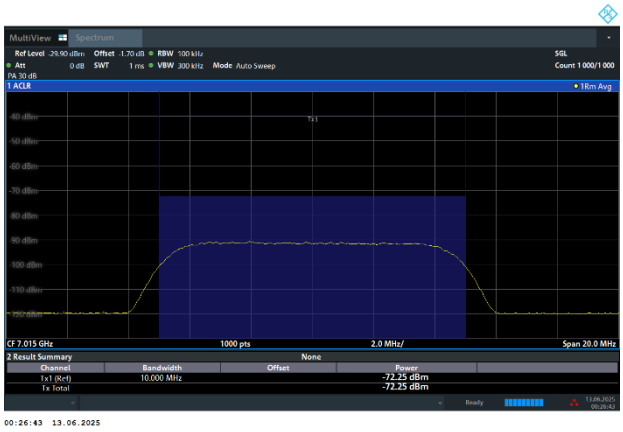
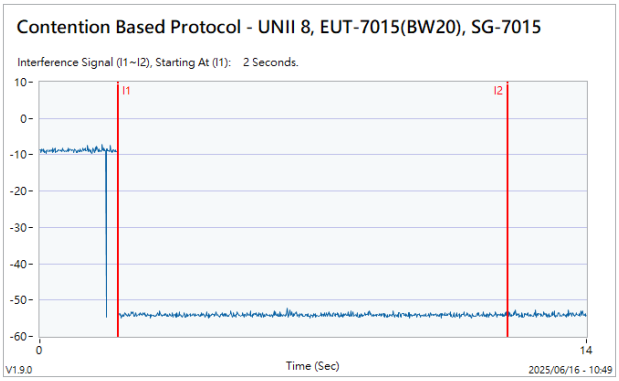
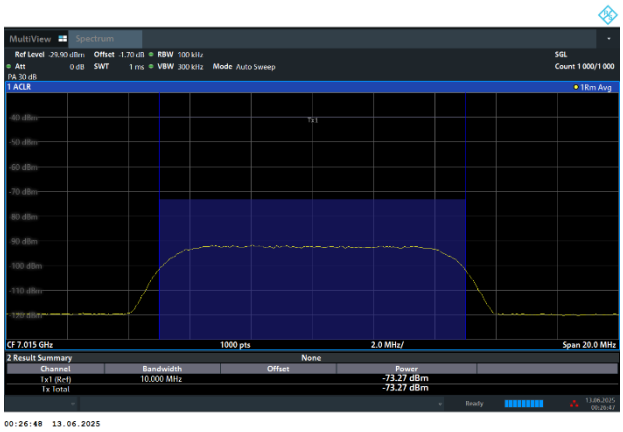
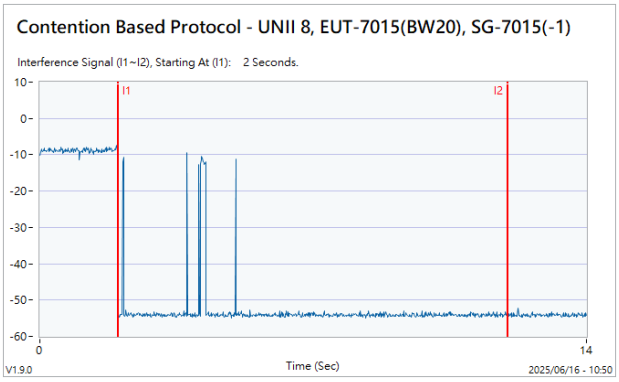
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)	
802.11ax (HE160) / 6580MHz (Upper edge) Threshold Level (TL) = -74.46dBm	802.11ax (HE160) / CH111 (Upper edge) Test result is pass due to no transmission occur.
	 [CBP6580]
802.11ax (HE160) / 6580MHz (Upper edge) Threshold Level (TL) = -75.42dBm	802.11ax (HE160) / CH111 (Upper edge) Transmit when the interferer is 1dB lower.
	 [CBP6580_1]

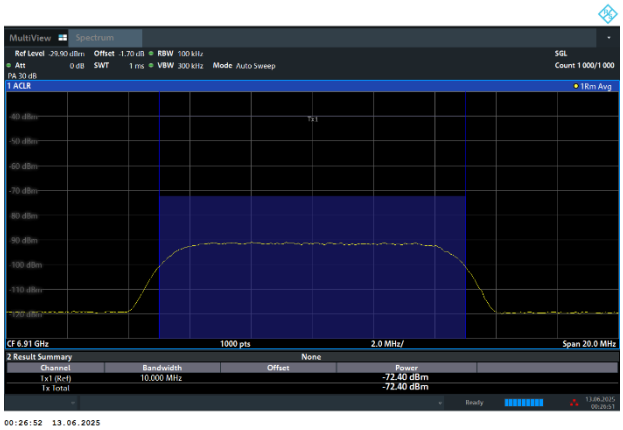
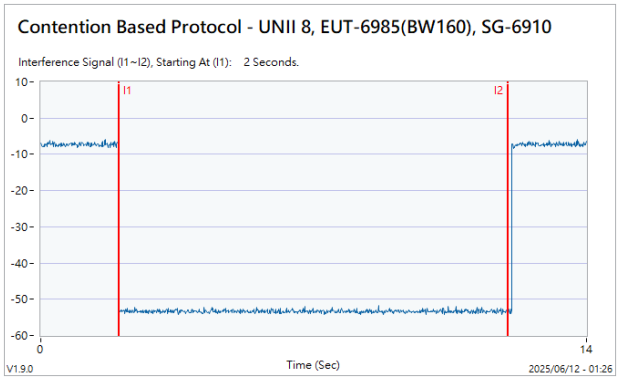
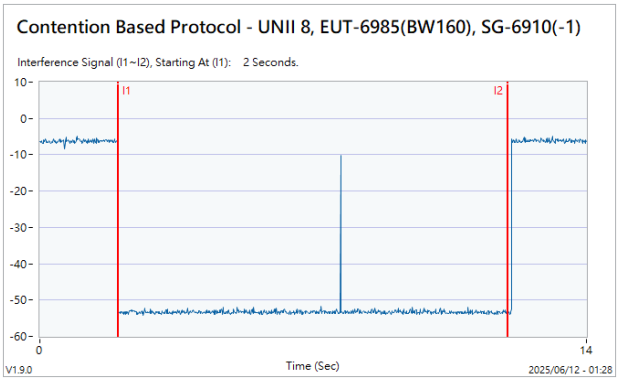
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)	
802.11ax (HE20) / 6695MHz Threshold Level (TL) = -70.99dBm	802.11ax (HE20) / CH149 Test result is pass due to no transmission occur.
	[CBP6695] 
802.11ax (HE20) / 6695MHz Threshold Level (TL) = -72.03dBm	802.11ax (HE20) / CH149 Transmit when the interferer is 1dB lower.
	[CBP6695_1] 

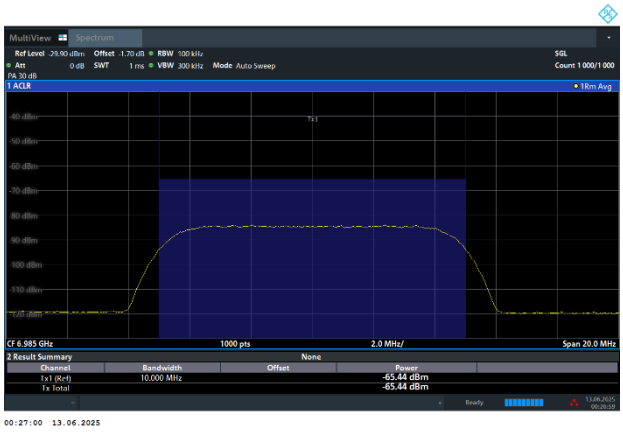
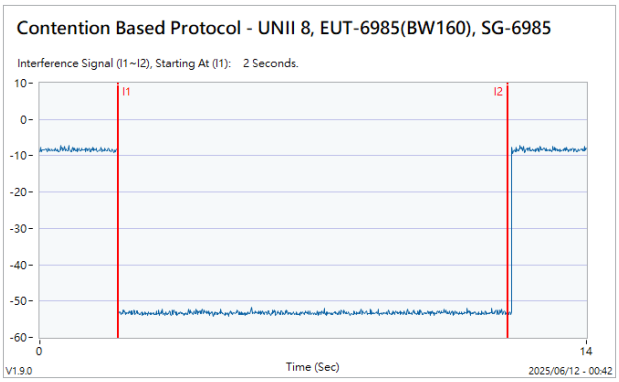
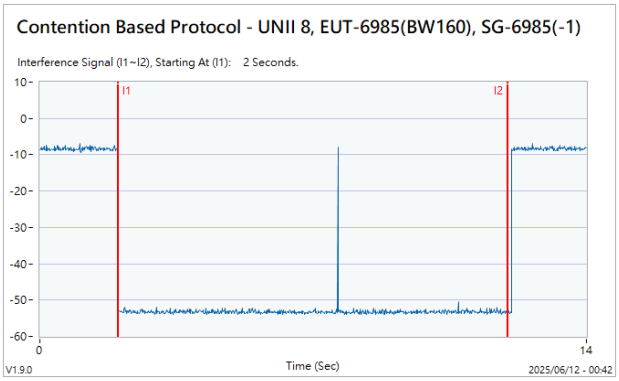
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)	
802.11ax (HE160) / 6590MHz (Lower edge) Threshold Level (TL) = -75.16dBm	802.11ax (HE160) / CH143 (Lower edge) Test result is pass due to no transmission occur.
	 [CBP6590]
802.11ax (HE160) / 6590MHz (Lower edge) Threshold Level (TL) = -76.17dBm	802.11ax (HE160) / CH143 (Lower edge) Transmit when the interferer is 1dB lower.
	 [CBP6590_1]

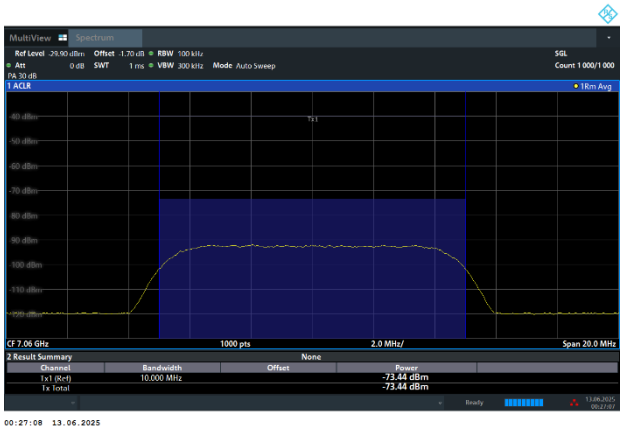
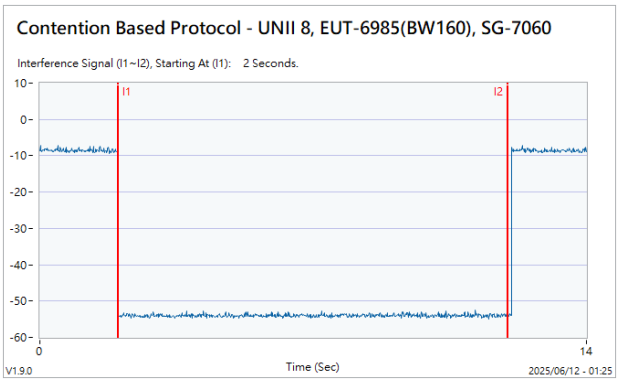
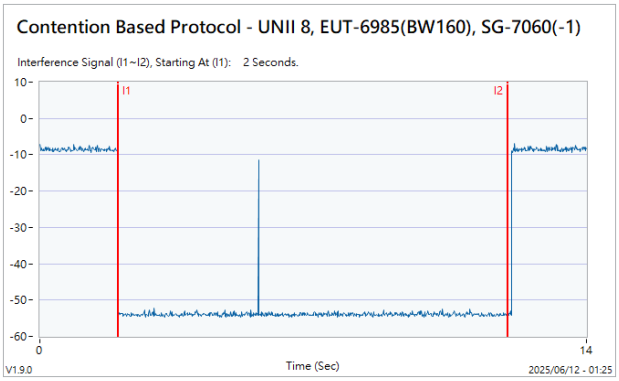
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)	
802.11ax (HE160) / 6665MHz (Middle) Threshold Level (TL) = -68.56dBm	802.11ax (HE160) / CH143 (Middle) Test result is pass due to no transmission occur.
 	 [CBP6665]
802.11ax (HE160) / 6665MHz (Middle) Threshold Level (TL) = -69.55dBm	802.11ax (HE160) / CH143 (Middle) Transmit when the interferer is 1dB lower.
 	 [CBP6665_1]

Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)	
802.11ax (HE160) / 6740MHz (Upper edge) Threshold Level (TL) = -75.83dBm	802.11ax (HE160) / CH143 (Upper edge) Test result is pass due to no transmission occur.
 	 [CBP6740]
802.11ax (HE160) / 6740MHz (Upper edge) Threshold Level (TL) = -76.84dBm	802.11ax (HE160) / CH143 (Upper edge) Transmit when the interferer is 1dB lower.
 	 [CBP6740_1]

Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)	
802.11ax (HE20) / 7015MHz Threshold Level (TL) = -72.25dBm	802.11ax (HE20) / CH213 Test result is pass due to no transmission occur.
	[CBP7015] 
802.11ax (HE20) / 7015MHz Threshold Level (TL) = -73.27dBm	802.11ax (HE20) / CH213 Transmit when the interferer is 1dB lower.
	[CBP7015_1] 

Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)	
802.11ax (HE160) / 6910MHz (Lower edge) Threshold Level (TL) = -72.40dBm	802.11ax (HE160) / CH207 (Lower edge) Test result is pass due to no transmission occur.
	
802.11ax (HE160) / 6910MHz (Lower edge) Threshold Level (TL) = -73.40dBm	802.11ax (HE160) / CH207 (Lower edge) Transmit when the interferer is 1dB lower.
	 [CBP6910_1]

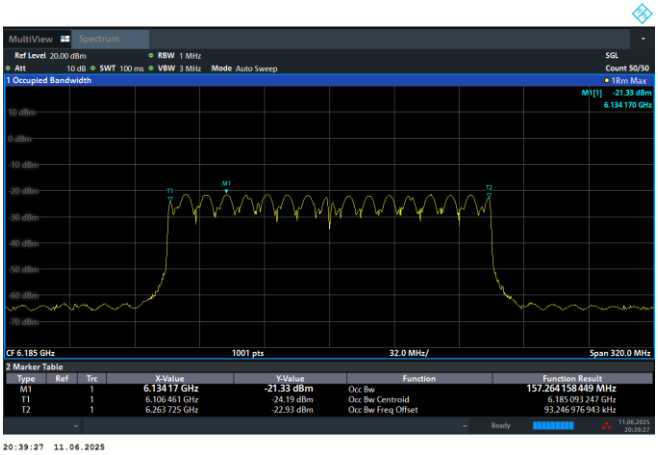
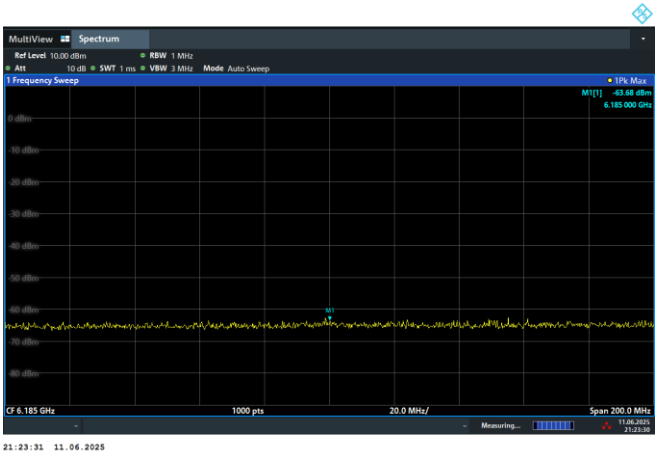
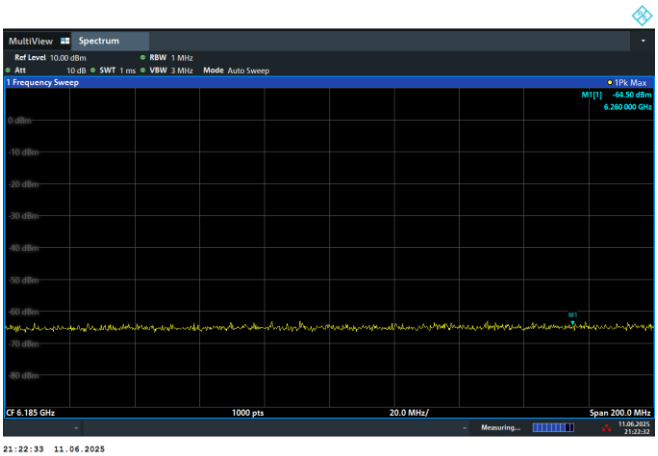
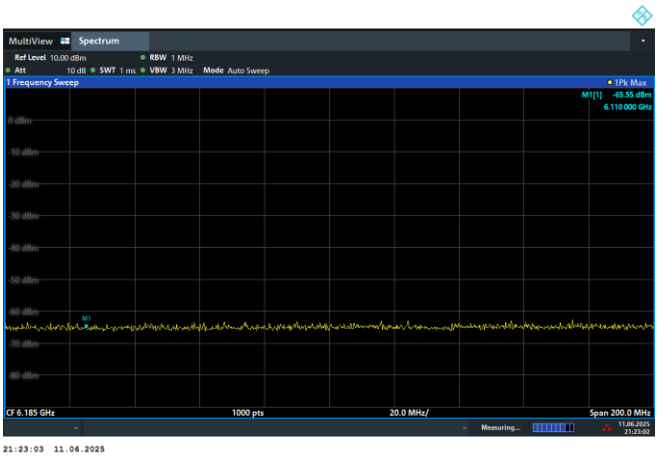
Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)	
802.11ax (HE160) / 6985MHz (Middle) Threshold Level (TL) = -65.44dBm	802.11ax (HE160) / CH207 (Middle) Test result is pass due to no transmission occur.
	 [CBP6985]
802.11ax (HE160) / 6985MHz (Middle) Threshold Level (TL) = -66.46dBm	802.11ax (HE160) / CH207 (Middle) Transmit when the interferer is 1dB lower.
	 [CBP6985_1]

Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)	
802.11ax (HE160) / 7060MHz (Upper edge) Threshold Level (TL) = -73.44dBm	802.11ax (HE160) / CH207 (Upper edge) Test result is pass due to no transmission occur.
 	 [CBP7060]
802.11ax (HE160) / 7060MHz (Upper edge) Threshold Level (TL) = -74.46dBm	802.11ax (HE160) / CH207 (Upper edge) Transmit when the interferer is 1dB lower.
 	 [CBP7060_1]

CBP verify with frequency domain plots

The device does not support channel puncturing with regards to Contention Based Protocol.

The entire bandwidth 160MHz stops transmission after the incumbent signal appears.

Before incumbent injected on 160MHz channel	After 10MHz incumbent injected on center of channel, the entire 160MHz bandwidth stops transmission.
	
After 10MHz incumbent injected on bottom of channel, the entire 160MHz bandwidth stops transmission.	After 10MHz incumbent injected on top of channel, the entire 160MHz bandwidth stops transmission.
	

3.6 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.6.1 Limit of Unwanted Emissions

(1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:
Unwanted emissions outside of restricted bands are measured with a RMS detector.
In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

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
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

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

3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

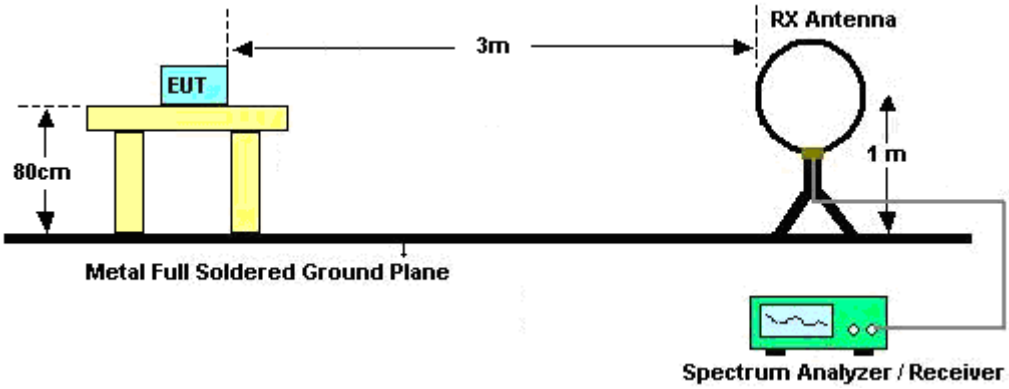
   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

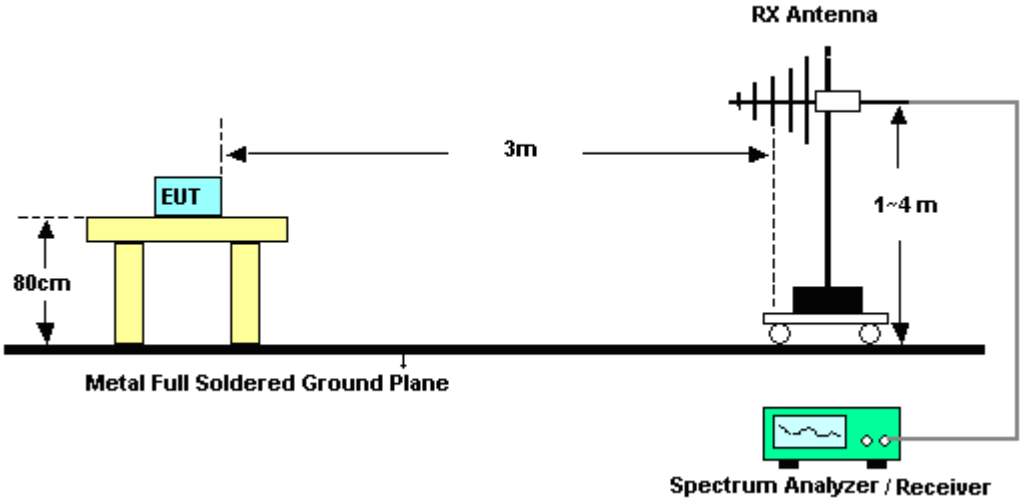
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“.

3.6.4 Test Setup

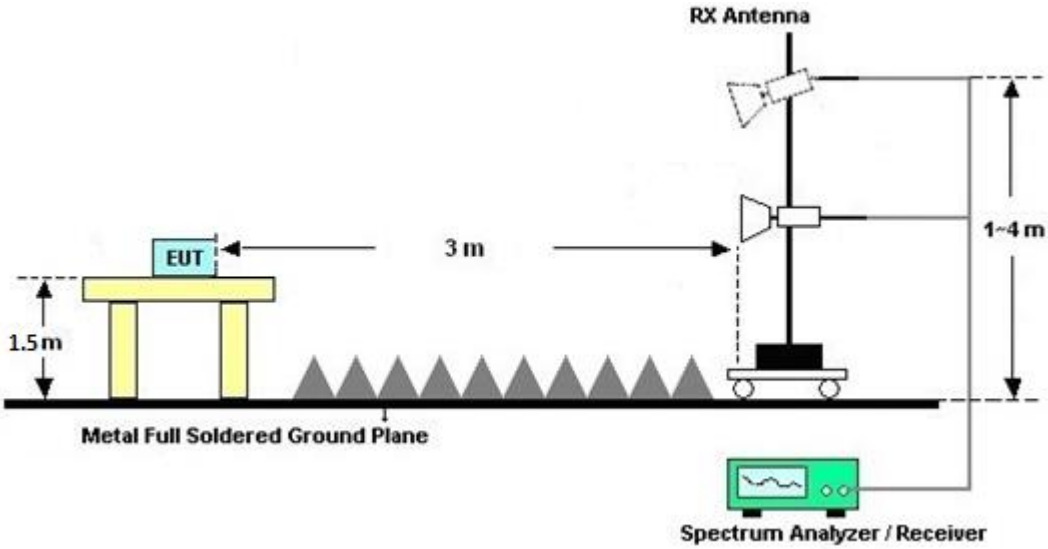
For radiated emissions below 30MHz



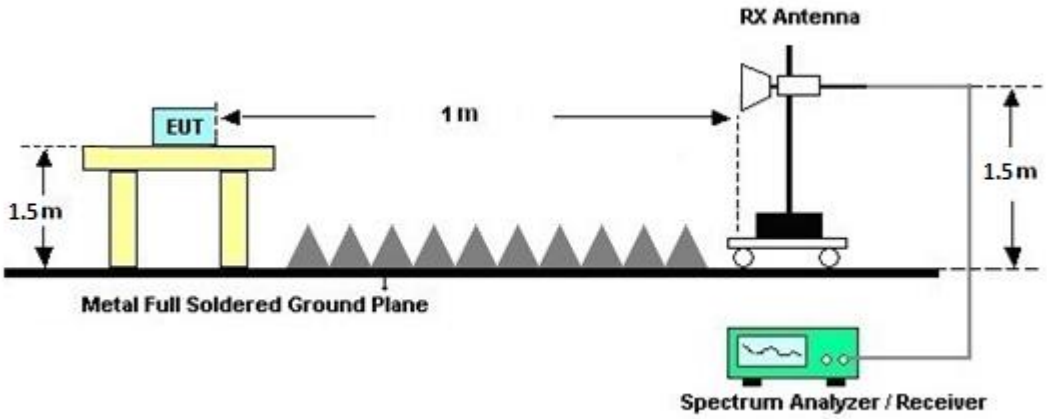
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.6.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.6.7 Duty Cycle

Please refer to Appendix D.

3.6.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (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.

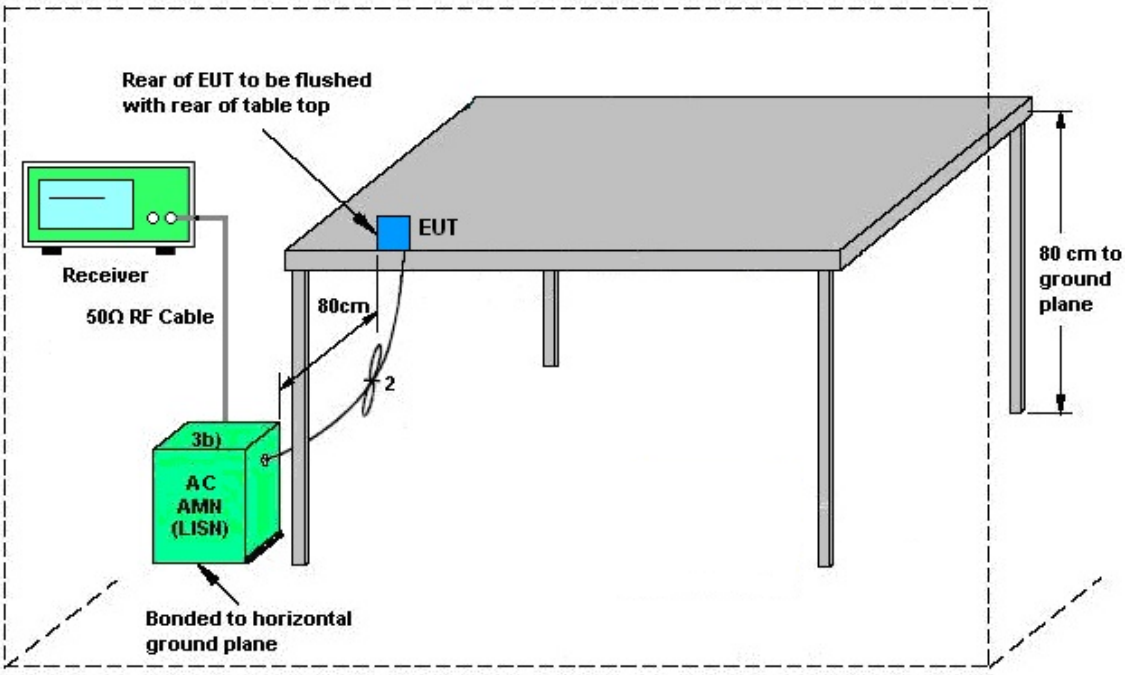
3.7.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.7.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9kHz~30MHz	Aug. 29, 2024	May 09, 2025~ Jun. 16, 2025	Aug. 28, 2025	Radiation (03CH22-HY)
Bilog Antenna with 6dB	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63304 & 002	30MHz~1GHz	Dec. 17, 2024	May 09, 2025~ Jun. 16, 2025	Dec. 16, 2025	Radiation (03CH22-HY)
Amplifier	SONOMA	310N	421581	N/A	Jul. 14, 2024	May 09, 2025~ Jun. 16, 2025	Jul. 13, 2025	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	Jul. 11, 2024	May 09, 2025~ May 19, 2025	Jul. 10, 2025	Radiation (03CH22-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C04A18EN	1GHz~18GHz	May 20, 2025	May 20, 2025~ Jun. 16, 2025	May 19, 2026	Radiation (03CH22-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Jul. 20, 2024	May 20, 2025~ Jun. 16, 2025	Jul. 28, 2025	Radiation (03CH22-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1225	18GHz-40GHz	Jun. 24, 2024	May 09, 2025~ May 20, 2025	Jun. 23, 2025	Radiation (03CH22-HY)
Amplifier	EMEC	EM01G18GA	060877	N/A	Sep. 27, 2024	May 09, 2025~ Jun. 16, 2025	Sep. 26, 2025	Radiation (03CH22-HY)
Preamplifier	EMEC	EM18G40G	060872	18-40GHz	Nov. 29, 2024	May 09, 2025~ Jun. 16, 2025	Nov. 28, 2025	Radiation (03CH22-HY)
Signal Analyzer	Keysight	N9010B	MY62170278	10Hz~44GHz	Sep. 24, 2024	May 09, 2025~ Jun. 16, 2025	Sep. 23, 2025	Radiation (03CH22-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Nov. 22, 2024	May 09, 2025~ Jun. 16, 2025	Nov. 21, 2025	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP211469	N/A	Dec. 24, 2024	May 09, 2025~ Jun. 16, 2025	Dec. 23, 2025	Radiation (03CH22-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 09, 2025~ Jun. 16, 2025	N/A	Radiation (03CH22-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 09, 2025~ Jun. 16, 2025	N/A	Radiation (03CH22-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 09, 2025~ Jun. 16, 2025	N/A	Radiation (03CH22-HY)
Software	Audix	E3	RK-002347	N/A	N/A	May 09, 2025~ Jun. 16, 2025	N/A	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	May 09, 2025~ Jun. 16, 2025	Mar. 04, 2026	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804390/2,804611/2,804615/2	N/A	Oct. 23, 2024	May 09, 2025~ May 18, 2025	Oct. 22, 2025	Radiation (03CH22-HY)
RF Cable	HUBER + SUHNER/EMCI	SUCOFLEX 102/EMCI01Y-KM-KM-500/EMCI01Y-KM-KM-9000	804611/2,240914, 25043351,25043350	30MHz~40GHz	May. 19, 2025	May 19, 2025~ Jun. 16, 2025	May. 18, 2026	Radiation (03CH22-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Apr. 30, 2025~ May 20, 2025	Oct. 30, 2025	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3008W	RPR8W-23010013 (NO:100)	10MHz~8GHz	Jul. 26, 2024	Apr. 30, 2025~ May 20, 2025	Jul. 25, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Apr. 30, 2025~ May 20, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Apr. 30, 2025~ May 20, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Apr. 30, 2025~ May 20, 2025	N/A	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jun. 17, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 17, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Jun. 17, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 03, 2025	Jun. 17, 2025	Mar. 02, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Jun. 17, 2025	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Jun. 17, 2025	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Jun. 17, 2025	Sep. 22, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Feb. 13, 2025	Jun. 17, 2025	Feb. 12, 2026	Conduction (CO07-HY)
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	111391	100kHz~7.5GHz	Jan. 06, 2025	Jun. 11, 2025~ Jun. 16, 2025	Jan. 05, 2026	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101550	10Hz~13.6GHz	Jan. 13, 2025	Jun. 11, 2025~ Jun. 16, 2025	Jan. 12, 2026	CBP (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10003	0.5GHz-6GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10007	0.5GHz-6GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divder Rated to 20W	STI08-0010(#1)	2GHz-8GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
Software 1	Sporton	DFS & Adaptivity Tools	N/A	Ver 1.8.8	NCR	Jun. 11, 2025~ Jun. 16, 2025	NCR	CBP (DF02-HY)
Coupler	MVE	MVE4816	A800044	0.5-18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EM	SFL402	30cm-#6	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	MTJ	SBF405	30cm-01	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	MTJ	SBF405	30cm-09	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	100cm-01	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	100cm-03	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	100cm-05	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	100cm-10	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	150cm-#11	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	150cm-#15	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)
RF Cable	EC	SS405	150cm-#16	30kHz~18GHz	Calibration from System	Jun. 11, 2025~ Jun. 16, 2025	Calibration from System	CBP (DF02-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.6 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2025/4/30~2025/5/20	Relative Humidity:	51~54	%

<CDD Mode>

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	001	5955	16.66	16.66	19.70	19.52	320.00	Pass
11a	6Mbps	2	049	6195	16.78	16.56	19.74	19.38	320.00	Pass
11a	6Mbps	2	093	6415	16.81	16.63	19.64	19.46	320.00	Pass

Report Number : FR522804G

TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	001	5955	1.30	0.60	3.97	3.85		7.82	24.00	Pass
11a	6Mbps	2	049	6195	0.80	1.50	4.17	3.85		8.02	24.00	Pass
11a	6Mbps	2	093	6415	0.70	1.50	4.13	3.85		7.98	24.00	Pass

Report Number : FR522804G

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	001	5955	0.66	0.66			-7.89	6.74		-1.15	-1.00	Pass
11a	6Mbps	2	049	6195	0.66	0.66			-7.78	6.74		-1.04	-1.00	Pass
11a	6Mbps	2	093	6415	0.66	0.66			-7.95	6.74		-1.21	-1.00	Pass

Report Number : FR522804G

TEST RESULTS DATA
26dB and 99% OBW

U-NII-6 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	097	6435	16.72	16.55	19.82	19.57	320.00	Pass
11a	6Mbps	2	105	6475	16.71	16.67	19.85	19.58	320.00	Pass
11a	6Mbps	2	113	6515	16.66	16.62	19.64	19.42	320.00	Pass

Report Number : FR522804G

TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	097	6435	2.10	2.70	5.42	3.04		8.46	24.00	Pass
11a	6Mbps	2	105	6475	2.20	1.80	5.01	3.04		8.05	24.00	Pass
11a	6Mbps	2	113	6515	2.00	1.60	4.81	3.04		7.85	24.00	Pass

Report Number : FR522804G

TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-6 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	097	6435	0.66	0.66			-6.72	5.69		-1.02	-1.00	Pass
11a	6Mbps	2	105	6475	0.66	0.66			-6.93	5.69		-1.24	-1.00	Pass
11a	6Mbps	2	113	6515	0.66	0.66			-7.04	5.69		-1.35	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	117	6535	16.60	16.57	19.72	19.46	320.00	Pass
11a	6Mbps	2	149	6695	16.68	16.58	19.77	19.42	320.00	Pass
11a	6Mbps	2	181	6855	16.79	16.66	19.70	19.39	320.00	Pass

U-NII-7 straddle channel MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	185	6875	16.81	16.66	19.58	19.38	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	117	6535	2.00	1.50	4.77	3.04		7.81	24.00	Pass
11a	6Mbps	2	149	6695	1.70	1.40	4.56	3.04		7.60	24.00	Pass
11a	6Mbps	2	181	6855	1.60	1.30	4.46	3.04		7.50	24.00	Pass

U-NII-7 straddle channel MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	185	6875	1.60	1.60	4.61	3.04		7.65	24.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	117	6535	0.66	0.66			-7.12	6.00		-1.12	-1.00	Pass
11a	6Mbps	2	149	6695	0.66	0.66			-7.26	6.00		-1.26	-1.00	Pass
11a	6Mbps	2	181	6855	0.66	0.66			-7.24	6.00		-1.24	-1.00	Pass

FCC U-NII-7 straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	185	6875	0.66	0.66			-7.28	6.00		-1.27	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

U-NII-8 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	189	6895	17.03	16.73	19.58	19.50	320.00	Pass
11a	6Mbps	2	209	6995	17.03	16.86	19.70	19.30	320.00	Pass
11a	6Mbps	2	233	7115	16.90	16.71	19.58	19.40	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	189	6895	0.80	1.30	4.07	3.98		8.05	24.00	Pass
11a	6Mbps	2	209	6995	0.60	1.10	3.87	3.98		7.85	24.00	Pass
11a	6Mbps	2	233	7115	1.20	1.30	4.26	3.98		8.24	24.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-8 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	189	6895	0.66	0.66			-7.72	6.64		-1.08	-1.00	Pass
11a	6Mbps	2	209	6995	0.66	0.66			-7.89	6.64		-1.24	-1.00	Pass
11a	6Mbps	2	233	7115	0.66	0.66			-7.67	6.64		-1.03	-1.00	Pass

<SDM Mode>

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	001	5955	Full	18.97	18.97	21.21	21.38	320.00	Pass
HE20	MCS0	2	049	6195	Full	18.97	18.97	21.37	21.06	320.00	Pass
HE20	MCS0	2	093	6415	Full	18.99	19.00	21.56	21.21	320.00	Pass
HE40	MCS0	2	003	5965	Full	38.02	38.04	41.87	41.84	320.00	Pass
HE40	MCS0	2	051	6205	Full	38.00	38.04	41.52	41.87	320.00	Pass
HE40	MCS0	2	091	6405	Full	38.01	38.06	41.71	41.76	320.00	Pass
HE80	MCS0	2	007	5985	Full	77.20	77.20	82.37	82.24	320.00	Pass
HE80	MCS0	2	055	6225	Full	77.16	77.18	82.21	82.40	320.00	Pass
HE80	MCS0	2	087	6385	Full	77.20	77.20	82.34	82.43	320.00	Pass
HE160	MCS0	2	015	6025	Full	156.43	156.32	166.66	166.90	320.00	Pass
HE160	MCS0	2	047	6185	Full	156.32	156.27	166.90	166.37	320.00	Pass
HE160	MCS0	2	079	6345	Full	156.37	156.44	167.14	166.03	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	001	5955	Full	5.10	4.40	7.77	3.73		11.51	24.00	Pass
HE20	MCS0	2	001	5955	26/0	-4.40	-4.90	-1.63	3.73		2.10	24.00	Pass
HE20	MCS0	2	001	5955	52/37	-1.50	-2.10	1.22	3.73		4.95	24.00	Pass
HE20	MCS0	2	001	5955	106/53	1.60	1.00	4.32	3.73		8.05	24.00	Pass
HE20	MCS0	2	049	6195	Full	4.80	4.90	7.86	3.73		11.59	24.00	Pass
HE20	MCS0	2	049	6195	26/4	-3.90	-3.20	-0.53	3.73		3.21	24.00	Pass
HE20	MCS0	2	049	6195	52/38	-2.40	-1.80	0.92	3.73		4.65	24.00	Pass
HE20	MCS0	2	049	6195	106/53	0.60	1.20	3.92	3.73		7.65	24.00	Pass
HE20	MCS0	2	093	6415	Full	4.10	4.60	7.37	3.73		11.10	24.00	Pass
HE20	MCS0	2	093	6415	26/8	-5.40	-4.60	-1.97	3.73		1.76	24.00	Pass
HE20	MCS0	2	093	6415	52/40	-2.50	-1.80	0.87	3.73		4.61	24.00	Pass
HE20	MCS0	2	093	6415	106/54	0.60	1.30	3.97	3.73		7.71	24.00	Pass
HE40	MCS0	2	003	5965	Full	7.30	6.70	10.02	3.73		13.75	24.00	Pass
HE40	MCS0	2	003	5965	242/61	4.90	4.10	7.53	3.73		11.26	24.00	Pass
HE40	MCS0	2	051	6205	Full	7.30	7.30	10.31	3.73		14.04	24.00	Pass
HE40	MCS0	2	051	6205	242/61	4.90	4.80	7.86	3.73		11.59	24.00	Pass
HE40	MCS0	2	091	6405	Full	6.70	7.40	10.07	3.73		13.81	24.00	Pass
HE40	MCS0	2	091	6405	242/62	3.90	4.60	7.27	3.73		11.01	24.00	Pass
HE80	MCS0	2	007	5985	Full	11.00	10.20	13.63	3.73		17.36	24.00	Pass
HE80	MCS0	2	007	5985	484/65	8.00	7.10	10.58	3.73		14.32	24.00	Pass
HE80	MCS0	2	055	6225	Full	10.70	10.70	13.71	3.73		17.44	24.00	Pass
HE80	MCS0	2	055	6225	484/65	7.50	7.40	10.46	3.73		14.19	24.00	Pass
HE80	MCS0	2	087	6385	Full	10.30	10.90	13.62	3.73		17.35	24.00	Pass
HE80	MCS0	2	087	6385	484/66	7.80	8.60	11.23	3.73		14.96	24.00	Pass
HE160	MCS0	2	015	6025	Full	13.70	13.40	16.56	3.73		20.29	24.00	Pass
HE160	MCS0	2	015	6025	996/67	10.70	10.70	13.71	3.73		17.44	24.00	Pass
HE160	MCS0	2	047	6185	Full	13.40	13.80	16.61	3.73		20.35	24.00	Pass
HE160	MCS0	2	047	6185	996/67	10.60	11.30	13.97	3.73		17.71	24.00	Pass
HE160	MCS0	2	079	6345	Full	13.20	13.80	16.52	3.73		20.25	24.00	Pass
HE160	MCS0	2	079	6345	996/S67	10.40	11.00	13.72	3.73		17.45	24.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	001	5955	Full	0.69	0.69			-4.83	3.73		-1.10	-1.00	Pass
HE20	MCS0	2	001	5955	26/0	0.64	0.64			-4.86	3.73		-1.13	-1.00	Pass
HE20	MCS0	2	001	5955	52/37	0.64	0.64			-4.85	3.73		-1.12	-1.00	Pass
HE20	MCS0	2	001	5955	106/53	0.67	0.67			-4.85	3.73		-1.12	-1.00	Pass
HE20	MCS0	2	049	6195	Full	0.69	0.69			-5.01	3.73		-1.28	-1.00	Pass
HE20	MCS0	2	049	6195	26/4	0.64	0.64			-5.14	3.73		-1.41	-1.00	Pass
HE20	MCS0	2	049	6195	52/38	0.64	0.64			-5.17	3.73		-1.44	-1.00	Pass
HE20	MCS0	2	049	6195	106/53	0.67	0.67			-5.12	3.73		-1.39	-1.00	Pass
HE20	MCS0	2	093	6415	Full	0.69	0.69			-4.99	3.73		-1.26	-1.00	Pass
HE20	MCS0	2	093	6415	26/8	0.64	0.64			-5.09	3.73		-1.36	-1.00	Pass
HE20	MCS0	2	093	6415	52/40	0.64	0.64			-5.21	3.73		-1.48	-1.00	Pass
HE20	MCS0	2	093	6415	106/54	0.67	0.67			-5.14	3.73		-1.40	-1.00	Pass
HE40	MCS0	2	003	5965	Full	0.68	0.68			-4.96	3.73		-1.23	-1.00	Pass
HE40	MCS0	2	003	5965	242/61	0.66	0.66			-5.20	3.73		-1.47	-1.00	Pass
HE40	MCS0	2	051	6205	Full	0.68	0.68			-4.77	3.73		-1.04	-1.00	Pass
HE40	MCS0	2	051	6205	242/61	0.66	0.66			-4.80	3.73		-1.07	-1.00	Pass
HE40	MCS0	2	091	6405	Full	0.68	0.68			-5.12	3.73		-1.39	-1.00	Pass
HE40	MCS0	2	091	6405	242/62	0.66	0.66			-5.17	3.73		-1.44	-1.00	Pass
HE80	MCS0	2	007	5985	Full	0.68	0.68			-4.80	3.73		-1.07	-1.00	Pass
HE80	MCS0	2	007	5985	484/65	0.66	0.66			-4.88	3.73		-1.15	-1.00	Pass
HE80	MCS0	2	055	6225	Full	0.68	0.68			-4.77	3.73		-1.04	-1.00	Pass
HE80	MCS0	2	055	6225	484/65	0.66	0.66			-5.07	3.73		-1.34	-1.00	Pass
HE80	MCS0	2	087	6385	Full	0.68	0.68			-4.81	3.73		-1.08	-1.00	Pass
HE80	MCS0	2	087	6385	484/66	0.66	0.66			-5.15	3.73		-1.42	-1.00	Pass
HE160	MCS0	2	015	6025	Full	0.67	0.67			-4.99	3.73		-1.26	-1.00	Pass
HE160	MCS0	2	015	6025	996/67	0.67	0.67			-5.05	3.73		-1.31	-1.00	Pass
HE160	MCS0	2	047	6185	Full	0.67	0.67			-4.80	3.73		-1.07	-1.00	Pass
HE160	MCS0	2	047	6185	996/67	0.67	0.67			-5.19	3.73		-1.45	-1.00	Pass
HE160	MCS0	2	079	6345	Full	0.67	0.67			-4.77	3.73		-1.04	-1.00	Pass
HE160	MCS0	2	079	6345	996/S67	0.67	0.67			-4.93	3.73		-1.20	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-6 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	097	6435	Full	18.97	18.99	21.22	21.42	320.00	Pass
HE20	MCS0	2	105	6475	Full	18.98	19.00	20.89	21.41	320.00	Pass
HE20	MCS0	2	113	6515	Full	18.97	19.00	21.45	21.41	320.00	Pass
HE40	MCS0	2	099	6445	Full	38.00	38.04	41.68	41.66	320.00	Pass
HE40	MCS0	2	107	6485	Full	37.99	38.03	41.78	41.78	320.00	Pass
HE80	MCS0	2	103	6465	Full	77.19	77.24	83.14	82.53	320.00	Pass

U-NII-6 straddle channel MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2		
HE40	MCS0	2	115	6525	Full	38.00	38.12	41.65	41.63	320.00	Pass
HE160	MCS0	2	111	6505	Full	156.29	156.33	166.37	166.18	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-6 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	097	6435	Full	5.60	6.20	8.92	2.69		11.61	24.00	Pass
HE20	MCS0	2	097	6435	26/0	-4.20	-3.50	-0.83	2.69		1.86	24.00	Pass
HE20	MCS0	2	097	6435	52/37	-1.40	-0.80	1.92	2.69		4.61	24.00	Pass
HE20	MCS0	2	097	6435	106/53	2.00	2.60	5.32	2.69		8.01	24.00	Pass
HE20	MCS0	2	105	6475	Full	5.50	5.40	8.46	2.69		11.15	24.00	Pass
HE20	MCS0	2	105	6475	26/4	-2.70	-2.80	0.26	2.69		2.95	24.00	Pass
HE20	MCS0	2	105	6475	52/38	-0.50	-0.80	2.36	2.69		5.05	24.00	Pass
HE20	MCS0	2	105	6475	106/53	2.40	2.10	5.26	2.69		7.95	24.00	Pass
HE20	MCS0	2	113	6515	Full	5.60	5.50	8.56	2.69		11.25	24.00	Pass
HE20	MCS0	2	113	6515	26/8	-3.50	-3.70	-0.59	2.69		2.10	24.00	Pass
HE20	MCS0	2	113	6515	52/40	-0.50	-0.80	2.36	2.69		5.05	24.00	Pass
HE20	MCS0	2	113	6515	106/54	2.20	1.60	4.92	2.69		7.61	24.00	Pass
HE40	MCS0	2	099	6445	Full	8.00	8.50	11.27	2.69		13.96	24.00	Pass
HE40	MCS0	2	099	6445	242/61	5.60	5.70	8.66	2.69		11.35	24.00	Pass
HE40	MCS0	2	107	6485	Full	7.90	8.40	11.17	2.69		13.86	24.00	Pass
HE40	MCS0	2	107	6485	242/62	5.20	5.20	8.21	2.69		10.90	24.00	Pass
HE80	MCS0	2	103	6465	Full	11.20	11.50	14.36	2.69		17.05	24.00	Pass
HE80	MCS0	2	103	6465	484/65	8.30	8.90	11.62	2.69		14.31	24.00	Pass

U-NII-6 straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE40	MCS0	2	115	6525	Full	8.70	8.40	11.56	2.69		14.25	24.00	Pass
HE40	MCS0	2	115	6525	242/62	5.90	5.90	8.91	2.69		11.60	24.00	Pass
HE160	MCS0	2	111	6505	Full	14.10	14.10	17.11	2.69		19.80	24.00	Pass
HE160	MCS0	2	111	6505	996/67	11.70	11.60	14.66	2.69		17.35	24.00	Pass
HE160	MCS0	2	111	6505	996/S67	11.70	11.40	14.56	2.69		17.25	24.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-6 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	097	6435	Full	0.69	0.69			-4.05	2.69		-1.36	-1.00	Pass
HE20	MCS0	2	097	6435	26/0	0.64	0.64			-4.10	2.69		-1.41	-1.00	Pass
HE20	MCS0	2	097	6435	52/37	0.64	0.64			-4.18	2.69		-1.49	-1.00	Pass
HE20	MCS0	2	097	6435	106/53	0.67	0.67			-4.12	2.69		-1.43	-1.00	Pass
HE20	MCS0	2	105	6475	Full	0.69	0.69			-3.91	2.69		-1.22	-1.00	Pass
HE20	MCS0	2	105	6475	26/4	0.64	0.64			-3.96	2.69		-1.27	-1.00	Pass
HE20	MCS0	2	105	6475	52/38	0.64	0.64			-4.11	2.69		-1.42	-1.00	Pass
HE20	MCS0	2	105	6475	106/53	0.67	0.67			-4.04	2.69		-1.35	-1.00	Pass
HE20	MCS0	2	113	6515	Full	0.69	0.69			-4.00	2.69		-1.31	-1.00	Pass
HE20	MCS0	2	113	6515	26/8	0.64	0.64			-4.17	2.69		-1.48	-1.00	Pass
HE20	MCS0	2	113	6515	52/40	0.64	0.64			-4.05	2.69		-1.36	-1.00	Pass
HE20	MCS0	2	113	6515	106/54	0.67	0.67			-4.14	2.69		-1.45	-1.00	Pass
HE40	MCS0	2	099	6445	Full	0.68	0.68			-4.06	2.69		-1.37	-1.00	Pass
HE40	MCS0	2	099	6445	242/61	0.66	0.66			-4.12	2.69		-1.43	-1.00	Pass
HE40	MCS0	2	107	6485	Full	0.68	0.68			-4.11	2.69		-1.42	-1.00	Pass
HE40	MCS0	2	107	6485	242/62	0.66	0.66			-4.15	2.69		-1.46	-1.00	Pass
HE80	MCS0	2	103	6465	Full	0.68	0.68			-3.99	2.69		-1.30	-1.00	Pass
HE80	MCS0	2	103	6465	484/65	0.66	0.66			-4.15	2.69		-1.46	-1.00	Pass

U-NII-6 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE40	MCS0	2	115	6525	Full	0.68	0.68			-3.77	2.69		-1.08	-1.00	Pass
HE40	MCS0	2	115	6525	242/62	0.66	0.66			-3.78	2.69		-1.09	-1.00	Pass
HE160	MCS0	2	111	6505	Full	0.67	0.67			-4.14	2.69		-1.45	-1.00	Pass
HE160	MCS0	2	111	6505	996/67	0.67	0.67			-4.17	2.69		-1.48	-1.00	Pass
HE160	MCS0	2	111	6505	996/S67	0.67	0.67			-4.18	2.69		-1.49	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	117	6535	Full	18.96	19.00	21.27	21.36	320.00	Pass
HE20	MCS0	2	149	6695	Full	18.98	19.03	21.18	21.69	320.00	Pass
HE20	MCS0	2	181	6855	Full	18.98	19.03	21.43	21.26	320.00	Pass
HE40	MCS0	2	123	6565	Full	37.95	37.93	41.90	41.38	320.00	Pass
HE40	MCS0	2	147	6685	Full	37.94	37.97	41.54	41.44	320.00	Pass
HE40	MCS0	2	179	6845	Full	37.99	38.01	41.86	41.44	320.00	Pass
HE80	MCS0	2	135	6625	Full	77.21	77.19	82.43	82.43	320.00	Pass
HE80	MCS0	2	151	6705	Full	77.17	77.17	83.04	82.62	320.00	Pass
HE80	MCS0	2	167	6785	Full	77.16	77.18	82.40	82.27	320.00	Pass
HE160	MCS0	2	143	6665	Full	156.25	156.25	165.79	165.94	320.00	Pass

U-NII-7 straddle channel MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	185	6875	Full	19.00	19.02	21.38	21.22	320.00	Pass
HE40	MCS0	2	187	6885	Full	38.01	37.98	41.42	41.33	320.00	Pass
HE80	MCS0	2	183	6865	Full	77.19	77.21	82.75	82.18	320.00	Pass
HE160	MCS0	2	175	6825	Full	156.39	156.41	166.66	166.32	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	117	6535	Full	5.50	5.20	8.36	2.99		11.35	24.00	Pass
HE20	MCS0	2	117	6535	26/0	-3.60	-4.30	-0.93	2.99		2.06	24.00	Pass
HE20	MCS0	2	117	6535	52/37	-0.70	-1.50	1.93	2.99		4.92	24.00	Pass
HE20	MCS0	2	117	6535	106/53	2.10	1.60	4.87	2.99		7.86	24.00	Pass
HE20	MCS0	2	149	6695	Full	5.00	4.90	7.96	2.99		10.95	24.00	Pass
HE20	MCS0	2	149	6695	26/4	-2.90	-3.20	-0.04	2.99		2.95	24.00	Pass
HE20	MCS0	2	149	6695	52/38	-1.30	-1.40	1.66	2.99		4.65	24.00	Pass
HE20	MCS0	2	149	6695	106/53	2.10	1.60	4.87	2.99		7.86	24.00	Pass
HE20	MCS0	2	181	6855	Full	5.40	5.50	8.46	2.99		11.45	24.00	Pass
HE20	MCS0	2	181	6855	26/8	-4.50	-3.90	-1.18	2.99		1.81	24.00	Pass
HE20	MCS0	2	181	6855	52/40	-1.60	-0.80	1.83	2.99		4.82	24.00	Pass
HE20	MCS0	2	181	6855	106/54	1.70	2.20	4.97	2.99		7.96	24.00	Pass
HE40	MCS0	2	123	6565	Full	8.40	8.20	11.31	2.99		14.30	24.00	Pass
HE40	MCS0	2	123	6565	242/61	5.50	5.30	8.41	2.99		11.40	24.00	Pass
HE40	MCS0	2	147	6685	Full	8.20	8.60	11.41	2.99		14.41	24.00	Pass
HE40	MCS0	2	147	6685	242/61	5.68	6.10	8.91	2.99		11.90	24.00	Pass
HE40	MCS0	2	179	6845	Full	8.50	8.50	11.51	2.99		14.50	24.00	Pass
HE40	MCS0	2	179	6845	242/62	5.30	5.10	8.21	2.99		11.20	24.00	Pass
HE80	MCS0	2	135	6625	Full	10.80	11.40	14.12	2.99		17.11	24.00	Pass
HE80	MCS0	2	135	6625	484/65	8.30	8.80	11.57	2.99		14.56	24.00	Pass
HE80	MCS0	2	151	6705	Full	10.60	11.20	13.92	2.99		16.91	24.00	Pass
HE80	MCS0	2	151	6705	484/65	8.00	8.50	11.27	2.99		14.26	24.00	Pass
HE80	MCS0	2	167	6785	Full	11.30	11.20	14.26	2.99		17.25	24.00	Pass
HE80	MCS0	2	167	6785	484/66	8.30	8.10	11.21	2.99		14.20	24.00	Pass
HE160	MCS0	2	143	6665	Full	13.70	14.40	17.07	2.99		20.06	24.00	Pass
HE160	MCS0	2	143	6665	996/67	11.20	11.80	14.52	2.99		17.51	24.00	Pass

U-NII-7 straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	185	6875	Full	4.80	5.10	7.96	2.99		10.95	24.00	Pass
HE20	MCS0	2	185	6875	26/8	-4.40	-3.80	-1.08	2.99		1.91	24.00	Pass
HE20	MCS0	2	185	6875	52/40	-1.50	-0.80	1.87	2.99		4.86	24.00	Pass
HE20	MCS0	2	185	6875	106/54	1.20	1.90	4.57	2.99		7.56	24.00	Pass
HE40	MCS0	2	187	6885	Full	8.10	8.60	11.37	2.99		14.36	24.00	Pass
HE40	MCS0	2	187	6885	242/62	6.00	6.40	9.21	2.99		12.21	24.00	Pass
HE80	MCS0	2	183	6865	Full	10.90	11.20	14.06	2.99		17.05	24.00	Pass
HE80	MCS0	2	183	6865	484/66	8.30	8.40	11.36	2.99		14.35	24.00	Pass
HE160	MCS0	2	175	6825	Full	14.20	14.10	17.16	2.99		20.15	24.00	Pass
HE160	MCS0	2	175	6825	996/67	11.60	11.60	14.61	2.99		17.60	24.00	Pass
HE160	MCS0	2	175	6825	996/S67	11.40	11.90	14.67	2.99		17.66	24.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	117	6535	Full	0.69	0.69			-4.10	2.99		-1.11	-1.00	Pass
HE20	MCS0	2	117	6535	26/0	0.64	0.64			-4.13	2.99		-1.14	-1.00	Pass
HE20	MCS0	2	117	6535	52/37	0.64	0.64			-4.23	2.99		-1.24	-1.00	Pass
HE20	MCS0	2	117	6535	106/53	0.67	0.67			-4.32	2.99		-1.32	-1.00	Pass
HE20	MCS0	2	149	6695	Full	0.69	0.69			-4.28	2.99		-1.29	-1.00	Pass
HE20	MCS0	2	149	6695	26/4	0.64	0.64			-4.33	2.99		-1.34	-1.00	Pass
HE20	MCS0	2	149	6695	52/38	0.64	0.64			-4.43	2.99		-1.44	-1.00	Pass
HE20	MCS0	2	149	6695	106/53	0.67	0.67			-4.32	2.99		-1.33	-1.00	Pass
HE20	MCS0	2	181	6855	Full	0.69	0.69			-4.19	2.99		-1.20	-1.00	Pass
HE20	MCS0	2	181	6855	26/8	0.64	0.64			-4.33	2.99		-1.34	-1.00	Pass
HE20	MCS0	2	181	6855	52/40	0.64	0.64			-4.42	2.99		-1.42	-1.00	Pass
HE20	MCS0	2	181	6855	106/54	0.67	0.67			-4.33	2.99		-1.34	-1.00	Pass
HE40	MCS0	2	123	6565	Full	0.68	0.68			-4.13	2.99		-1.14	-1.00	Pass
HE40	MCS0	2	123	6565	242/61	0.66	0.66			-4.36	2.99		-1.37	-1.00	Pass
HE40	MCS0	2	147	6685	Full	0.68	0.68			-4.05	2.99		-1.06	-1.00	Pass
HE40	MCS0	2	147	6685	242/61	0.66	0.66			-4.10	2.99		-1.11	-1.00	Pass
HE40	MCS0	2	179	6845	Full	0.68	0.68			-4.00	2.99		-1.01	-1.00	Pass
HE40	MCS0	2	179	6845	242/62	0.66	0.66			-4.41	2.99		-1.42	-1.00	Pass
HE80	MCS0	2	135	6625	Full	0.68	0.68			-4.06	2.99		-1.07	-1.00	Pass
HE80	MCS0	2	135	6625	484/65	0.66	0.66			-4.23	2.99		-1.24	-1.00	Pass
HE80	MCS0	2	151	6705	Full	0.68	0.68			-4.19	2.99		-1.20	-1.00	Pass
HE80	MCS0	2	151	6705	484/65	0.66	0.66			-4.39	2.99		-1.40	-1.00	Pass
HE80	MCS0	2	167	6785	Full	0.68	0.68			-4.04	2.99		-1.04	-1.00	Pass
HE80	MCS0	2	167	6785	484/66	0.66	0.66			-4.18	2.99		-1.19	-1.00	Pass
HE160	MCS0	2	143	6665	Full	0.67	0.67			-4.16	2.99		-1.17	-1.00	Pass
HE160	MCS0	2	143	6665	996/67	0.67	0.67			-4.28	2.99		-1.29	-1.00	Pass

U-NII-7 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	185	6875	Full	0.69	0.69			-4.17	2.99		-1.18	-1.00	Pass
HE20	MCS0	2	185	6875	26/8	0.64	0.64			-4.19	2.99		-1.20	-1.00	Pass
HE20	MCS0	2	185	6875	52/40	0.64	0.64			-4.43	2.99		-1.44	-1.00	Pass
HE20	MCS0	2	185	6875	106/54	0.67	0.67			-4.47	2.99		-1.48	-1.00	Pass
HE40	MCS0	2	187	6885	Full	0.68	0.68			-4.14	2.99		-1.15	-1.00	Pass
HE40	MCS0	2	187	6885	242/62	0.66	0.66			-4.21	2.99		-1.22	-1.00	Pass
HE80	MCS0	2	183	6865	Full	0.68	0.68			-4.38	2.99		-1.39	-1.00	Pass
HE80	MCS0	2	183	6865	484/66	0.66	0.66			-4.44	2.99		-1.44	-1.00	Pass
HE160	MCS0	2	175	6825	Full	0.67	0.67			-4.17	2.99		-1.18	-1.00	Pass
HE160	MCS0	2	175	6825	996/67	0.67	0.67			-4.27	2.99		-1.28	-1.00	Pass
HE160	MCS0	2	175	6825	996/S67	0.67	0.67			-4.18	2.99		-1.19	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

U-NII-8 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	189	6895	Full	19.00	19.04	21.26	21.43	320.00	Pass
HE20	MCS0	2	209	6995	Full	19.00	19.04	21.35	21.26	320.00	Pass
HE20	MCS0	2	233	7115	Full	18.97	19.02	21.48	21.46	320.00	Pass
HE40	MCS0	2	195	6925	Full	38.02	38.01	41.54	41.50	320.00	Pass
HE40	MCS0	2	211	7005	Full	38.02	38.01	41.89	41.44	320.00	Pass
HE40	MCS0	2	227	7085	Full	38.02	38.01	41.84	41.46	320.00	Pass
HE80	MCS0	2	199	6945	Full	77.17	77.23	82.72	82.62	320.00	Pass
HE80	MCS0	2	215	7025	Full	77.20	77.19	82.30	82.91	320.00	Pass
HE160	MCS0	2	207	6985	Full	156.21	156.28	166.42	166.80	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-8 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	189	6895	Full	4.20	4.60	7.41	3.64		11.05	24.00	Pass
HE20	MCS0	2	189	6895	26/0	-5.20	-4.90	-2.04	3.64		1.60	24.00	Pass
HE20	MCS0	2	189	6895	52/37	-2.00	-1.40	1.32	3.64		4.96	24.00	Pass
HE20	MCS0	2	189	6895	106/53	1.20	1.90	4.57	3.64		8.21	24.00	Pass
HE20	MCS0	2	209	6995	Full	4.60	4.60	7.61	3.64		11.25	24.00	Pass
HE20	MCS0	2	209	6995	26/4	-3.90	-3.40	-0.63	3.64		3.01	24.00	Pass
HE20	MCS0	2	209	6995	52/38	-1.90	-1.30	1.42	3.64		5.06	24.00	Pass
HE20	MCS0	2	209	6995	106/53	0.80	1.30	4.07	3.64		7.71	24.00	Pass
HE20	MCS0	2	233	7115	Full	4.40	4.40	7.41	3.64		11.05	24.00	Pass
HE20	MCS0	2	233	7115	26/8	-4.60	-3.90	-1.23	3.64		2.41	24.00	Pass
HE20	MCS0	2	233	7115	52/40	-1.70	-1.00	1.67	3.64		5.31	24.00	Pass
HE20	MCS0	2	233	7115	106/54	1.20	1.40	4.31	3.64		7.95	24.00	Pass
HE40	MCS0	2	195	6925	Full	8.00	7.90	10.96	3.64		14.60	24.00	Pass
HE40	MCS0	2	195	6925	242/61	4.60	4.80	7.71	3.64		11.35	24.00	Pass
HE40	MCS0	2	211	7005	Full	7.90	8.00	10.96	3.64		14.60	24.00	Pass
HE40	MCS0	2	211	7005	242/62	4.90	4.20	7.57	3.64		11.21	24.00	Pass
HE40	MCS0	2	227	7085	Full	7.50	8.10	10.82	3.64		14.46	24.00	Pass
HE40	MCS0	2	227	7085	242/62	4.50	4.20	7.36	3.64		11.00	24.00	Pass
HE80	MCS0	2	199	6945	Full	10.30	10.60	13.46	3.64		17.10	24.00	Pass
HE80	MCS0	2	199	6945	484/65	7.50	7.90	10.71	3.64		14.35	24.00	Pass
HE80	MCS0	2	215	7025	Full	10.40	10.70	13.56	3.64		17.20	24.00	Pass
HE80	MCS0	2	215	7025	484/66	7.10	7.60	10.37	3.64		14.01	24.00	Pass
HE160	MCS0	2	207	6985	Full	13.70	13.40	16.56	3.64		20.20	24.00	Pass
HE160	MCS0	2	207	6985	996/67	11.00	11.00	14.01	3.64		17.65	24.00	Pass
HE160	MCS0	2	207	6985	996/S67	10.90	11.10	14.01	3.64		17.65	24.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

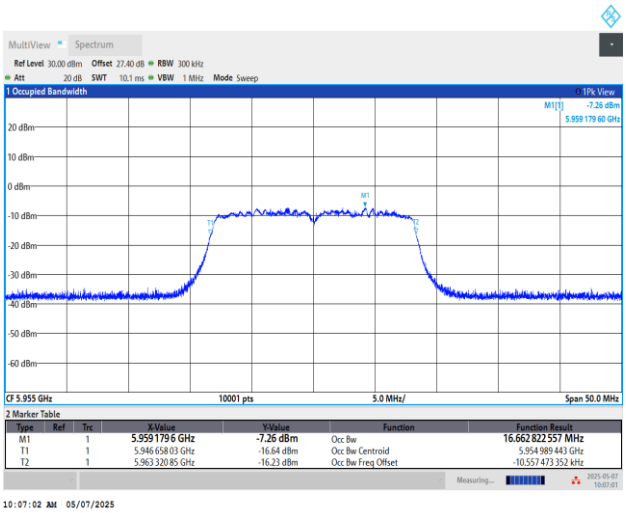
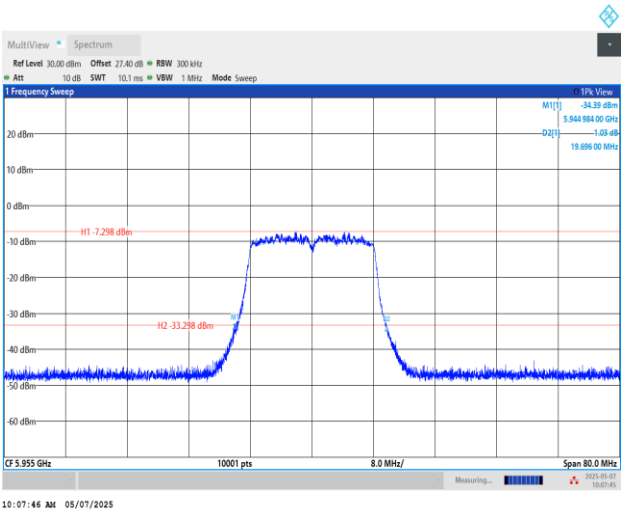
U-NII-8 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density with Duty Factor (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	189	6895	Full	0.69	0.69			-4.91	3.64		-1.27	-1.00	Pass
HE20	MCS0	2	189	6895	26/0	0.64	0.64			-5.07	3.64		-1.43	-1.00	Pass
HE20	MCS0	2	189	6895	52/37	0.64	0.64			-5.13	3.64		-1.49	-1.00	Pass
HE20	MCS0	2	189	6895	106/53	0.67	0.67			-5.09	3.64		-1.45	-1.00	Pass
HE20	MCS0	2	209	6995	Full	0.69	0.69			-4.78	3.64		-1.14	-1.00	Pass
HE20	MCS0	2	209	6995	26/4	0.64	0.64			-5.08	3.64		-1.44	-1.00	Pass
HE20	MCS0	2	209	6995	52/38	0.64	0.64			-5.08	3.64		-1.44	-1.00	Pass
HE20	MCS0	2	209	6995	106/53	0.67	0.67			-5.01	3.64		-1.37	-1.00	Pass
HE20	MCS0	2	233	7115	Full	0.69	0.69			-4.75	3.64		-1.11	-1.00	Pass
HE20	MCS0	2	233	7115	26/8	0.64	0.64			-5.06	3.64		-1.42	-1.00	Pass
HE20	MCS0	2	233	7115	52/40	0.64	0.64			-4.80	3.64		-1.16	-1.00	Pass
HE20	MCS0	2	233	7115	106/54	0.67	0.67			-4.94	3.64		-1.30	-1.00	Pass
HE40	MCS0	2	195	6925	Full	0.68	0.68			-4.70	3.64		-1.06	-1.00	Pass
HE40	MCS0	2	195	6925	242/61	0.66	0.66			-5.00	3.64		-1.36	-1.00	Pass
HE40	MCS0	2	211	7005	Full	0.68	0.68			-4.81	3.64		-1.17	-1.00	Pass
HE40	MCS0	2	211	7005	242/62	0.66	0.66			-5.06	3.64		-1.42	-1.00	Pass
HE40	MCS0	2	227	7085	Full	0.68	0.68			-4.88	3.64		-1.24	-1.00	Pass
HE40	MCS0	2	227	7085	242/62	0.66	0.66			-5.11	3.64		-1.47	-1.00	Pass
HE80	MCS0	2	199	6945	Full	0.68	0.68			-4.91	3.64		-1.27	-1.00	Pass
HE80	MCS0	2	199	6945	484/65	0.66	0.66			-5.09	3.64		-1.45	-1.00	Pass
HE80	MCS0	2	215	7025	Full	0.68	0.68			-4.72	3.64		-1.08	-1.00	Pass
HE80	MCS0	2	215	7025	484/66	0.66	0.66			-5.09	3.64		-1.45	-1.00	Pass
HE160	MCS0	2	207	6985	Full	0.67	0.67			-4.70	3.64		-1.06	-1.00	Pass
HE160	MCS0	2	207	6985	996/67	0.67	0.67			-4.80	3.64		-1.16	-1.00	Pass
HE160	MCS0	2	207	6985	996/S67	0.67	0.67			-4.85	3.64		-1.21	-1.00	Pass

<CDD Mode>

Test Result of 26dB & 99% Occupied Bandwidth

MIMO <Ant. 1+2>

<802.11a>

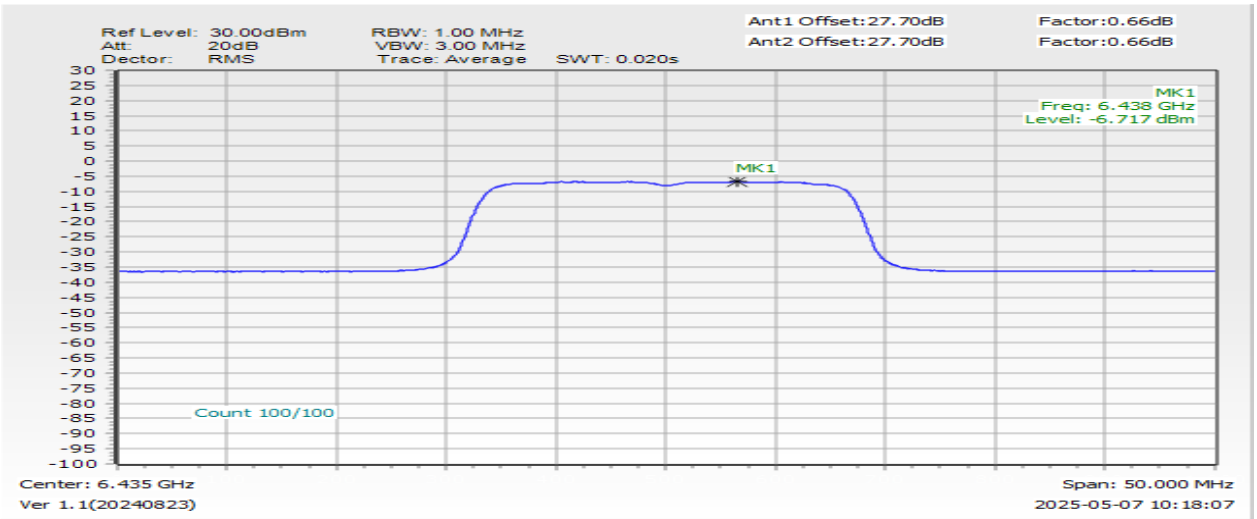
99% Occupied Bandwidth	26dB Bandwidth
	

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Test Result of Power Spectral Density

<802.11a>

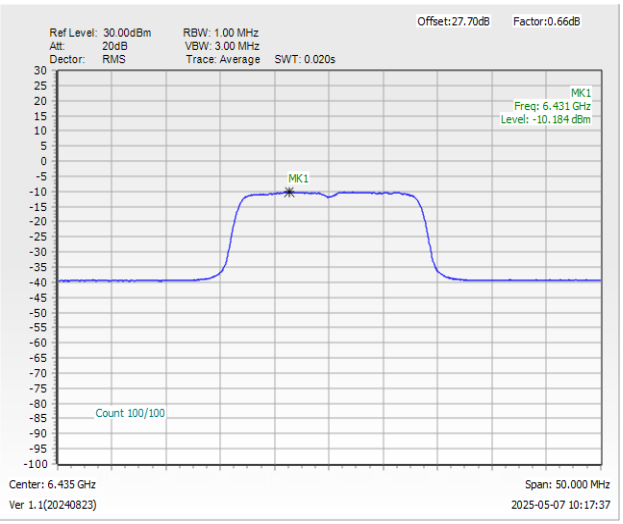
Maximum Power Density Plot (dBm/MHz)



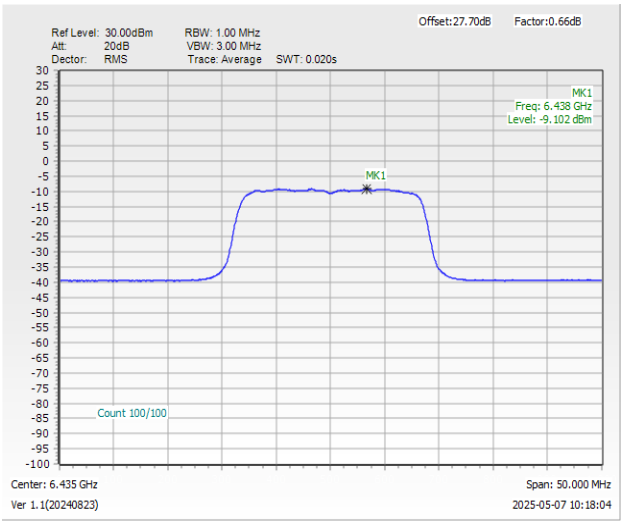
Note:

1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
2. The test plot is showing a bin by bin combined result mathematically adds two traces.

Power Density Plot Trace 1 (Ant 1)



Power Density Plot Trace 2 (Ant 2)

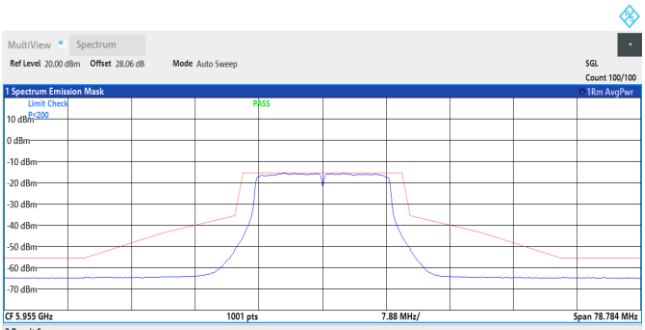


In-Band Emissions (Channel Mask)

MIMO <Ant. 1+2(1)>

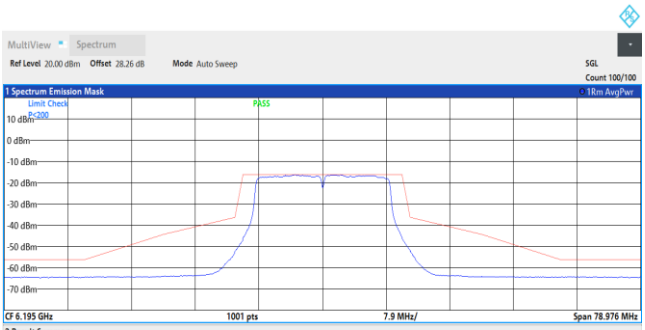
EUT Mode	802.11a

Plot on 5955 MHz



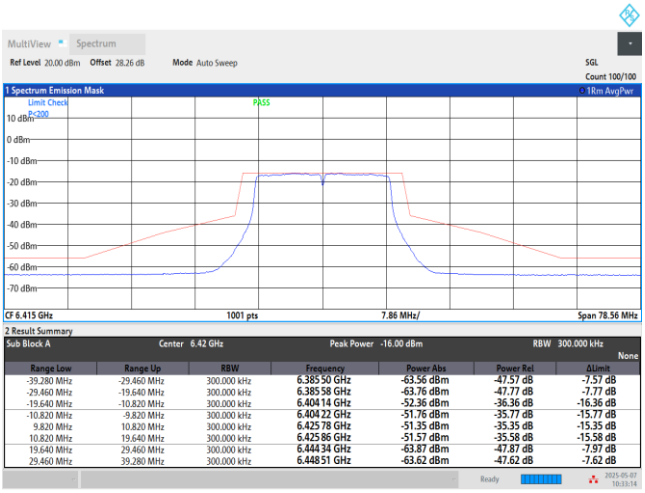
10:08:16 AM 05/07/2025

Plot on 6195 MHz



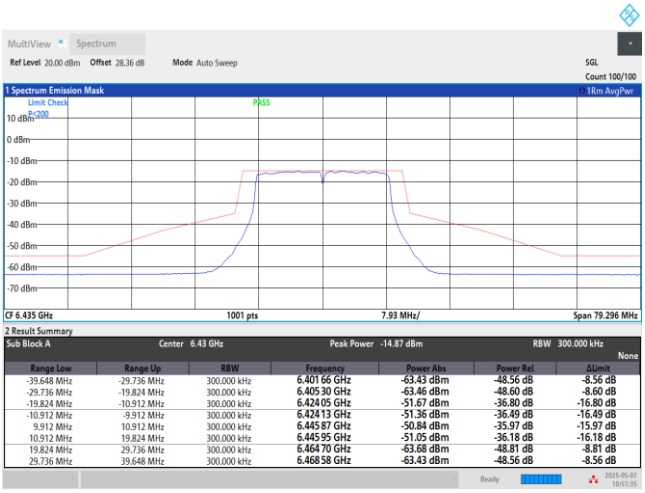
10:55:47 AM 05/07/2025

Plot on 6415 MHz



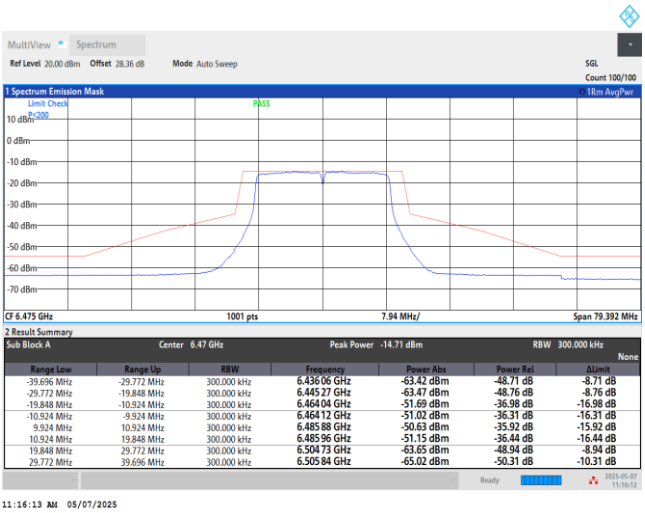
10:33:15 AM 05/07/2025

Plot on 6435 MHz



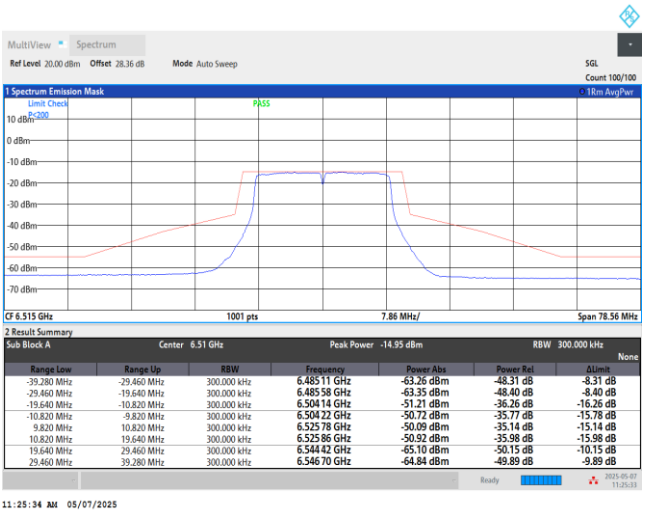
10:51:36 AM 05/07/2025

Plot on 6475 MHz



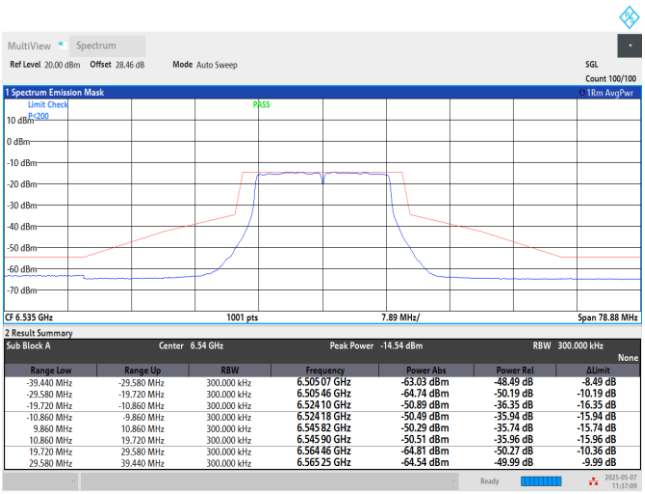
11:16:13 AM 05/07/2025

Plot on 6515 MHz



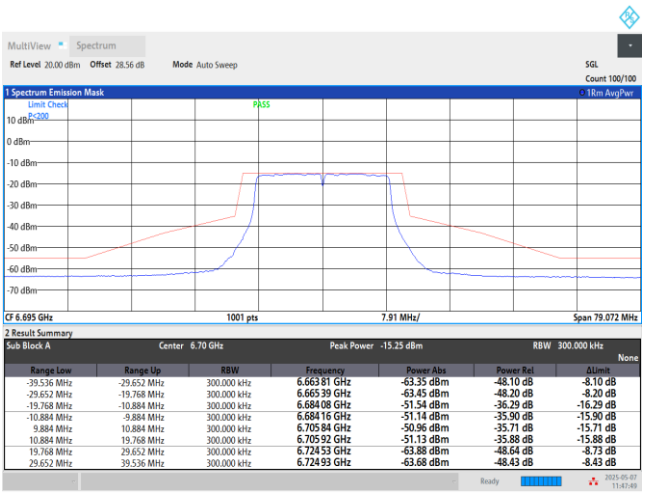
11:25:34 AM 05/07/2025

Plot on 6535 MHz



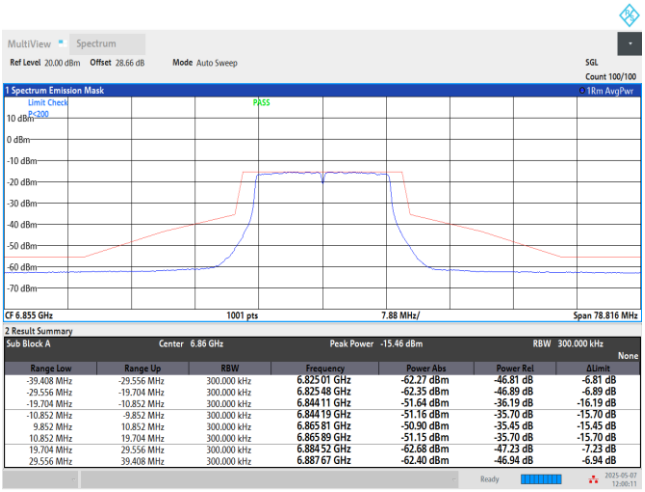
11:37:10 AM 05/07/2025

Plot on 6695 MHz



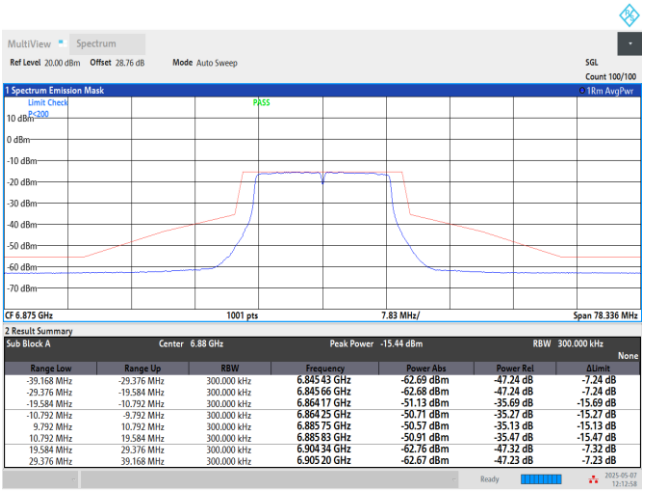
11:47:50 AM 05/07/2025

Plot on 6855 MHz



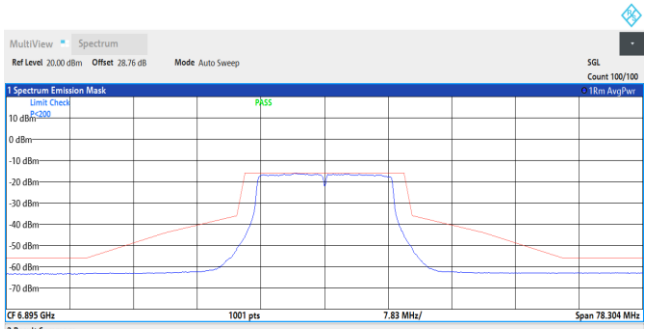
12:00:12 PM 05/07/2025

Plot on 6875 MHz



12:12:59 PM 05/07/2025

Plot on 6895 MHz



2 Result Summary

Sub Block A	Center 6.89 GHz		Peak Power -16.00 dBm		RBW 300.000 kHz	
						None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.152 MHz	-29.364 MHz	300.000 kHz	6.862 46 GHz	-63.14 dBm	-47.15 dB	-7.15 dB
-29.364 MHz	-19.576 MHz	300.000 kHz	6.865 68 GHz	-63.21 dBm	-47.21 dB	-7.21 dB
-19.576 MHz	-10.788 MHz	300.000 kHz	6.884 17 GHz	-51.75 dBm	-35.76 dB	-15.76 dB
-10.788 MHz	-9.788 MHz	300.000 kHz	6.884 25 GHz	-51.35 dBm	-35.35 dB	-15.35 dB
9.788 MHz	10.788 MHz	300.000 kHz	6.905 75 GHz	-51.40 dBm	-35.40 dB	-15.40 dB
10.788 MHz	19.576 MHz	300.000 kHz	6.905 83 GHz	-51.77 dBm	-35.78 dB	-15.78 dB
19.576 MHz	29.364 MHz	300.000 kHz	6.924 32 GHz	-63.15 dBm	-47.15 dB	-7.15 dB
29.364 MHz	39.152 MHz	300.000 kHz	6.930 82 GHz	-62.70 dBm	-46.70 dB	-6.70 dB

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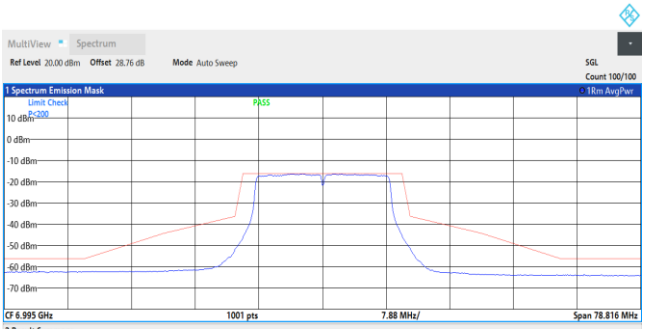
Plot on 6995 MHz

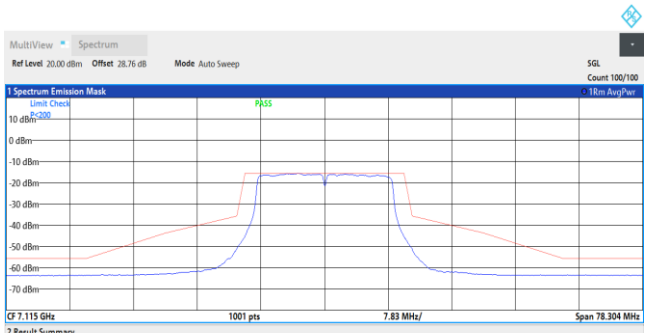


2 Result Summary

Sub Block A	Center 7.00 GHz		Peak Power -16.32 dBm		RBW 300.000 kHz	
						None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.408 MHz	-29.556 MHz	300.000 kHz	6.959 89 GHz	-62.16 dBm	-45.84 dB	-5.84 dB
-29.556 MHz	-19.704 MHz	300.000 kHz	6.965 48 GHz	-62.47 dBm	-46.15 dB	-6.15 dB
-19.704 MHz	-10.852 MHz	300.000 kHz	6.984 11 GHz	-52.29 dBm	-35.97 dB	-15.97 dB
-10.852 MHz	-9.852 MHz	300.000 kHz	6.984 19 GHz	-51.84 dBm	-35.52 dB	-15.52 dB
9.852 MHz	10.852 MHz	300.000 kHz	7.005 81 GHz	-51.43 dBm	-35.11 dB	-15.11 dB
10.852 MHz	19.704 MHz	300.000 kHz	7.005 89 GHz	-51.85 dBm	-35.53 dB	-15.53 dB
19.704 MHz	29.556 MHz	300.000 kHz	7.024 52 GHz	-64.01 dBm	-47.69 dB	-7.69 dB
29.556 MHz	39.408 MHz	300.000 kHz	7.029 56 GHz	-63.74 dBm	-47.42 dB	-7.42 dB

02:31:11 PM 05/07/2025

Plot on 7115 MHz



2 Result Summary

Sub Block A	Center 7.12 GHz		Peak Power -15.69 dBm		RBW 300.000 kHz	
						None
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.152 MHz	-29.364 MHz	300.000 kHz	7.085 13 GHz	-63.35 dBm	-47.65 dB	-7.65 dB
-29.364 MHz	-19.576 MHz	300.000 kHz	7.085 68 GHz	-63.41 dBm	-47.72 dB	-7.72 dB
-19.576 MHz	-10.788 MHz	300.000 kHz	7.104 17 GHz	-51.03 dBm	-35.34 dB	-15.34 dB
-10.788 MHz	-9.788 MHz	300.000 kHz	7.104 25 GHz	-50.93 dBm	-35.23 dB	-15.23 dB
9.788 MHz	10.788 MHz	300.000 kHz	7.125 75 GHz	-51.21 dBm	-35.51 dB	-15.51 dB
10.788 MHz	19.576 MHz	300.000 kHz	7.125 83 GHz	-51.63 dBm	-35.93 dB	-15.93 dB
19.576 MHz	29.364 MHz	300.000 kHz	7.144 32 GHz	-63.49 dBm	-47.80 dB	-7.80 dB
29.364 MHz	39.152 MHz	300.000 kHz	7.152 78 GHz	-63.28 dBm	-47.59 dB	-7.59 dB

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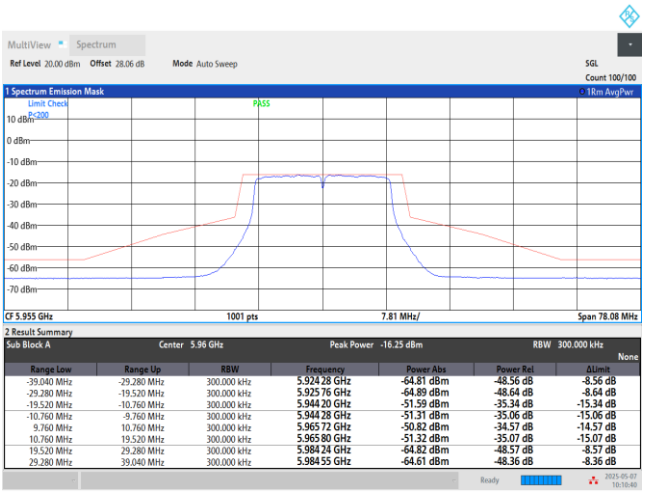
MIMO <Ant. 1+2(2)>

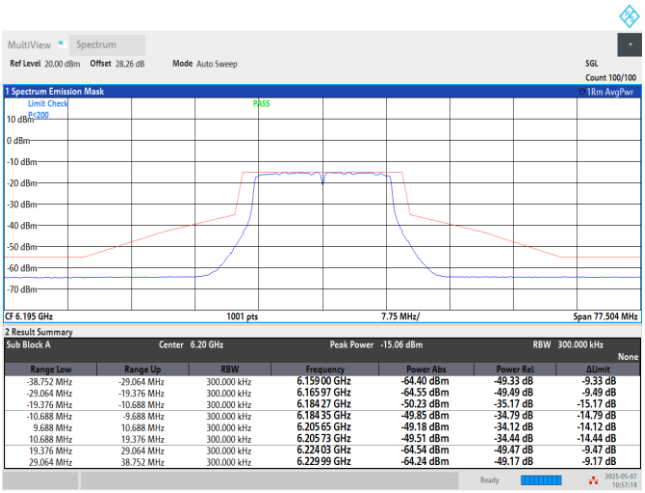
EUT Mode	802.11a

Plot on 5955 MHz



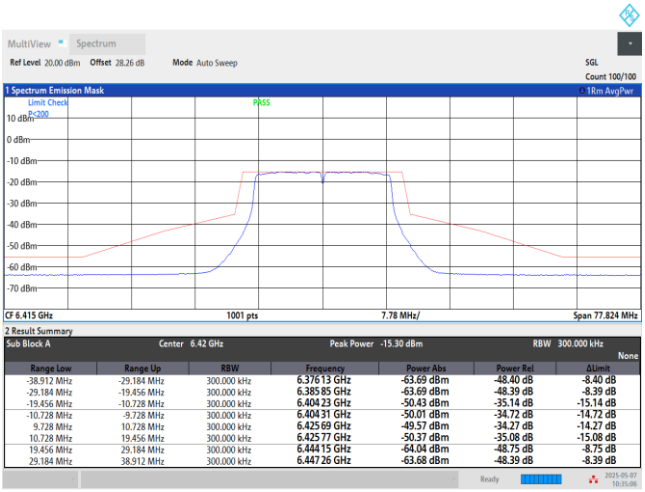
10:10:41 AM 05/07/2025

Plot on 6195 MHz



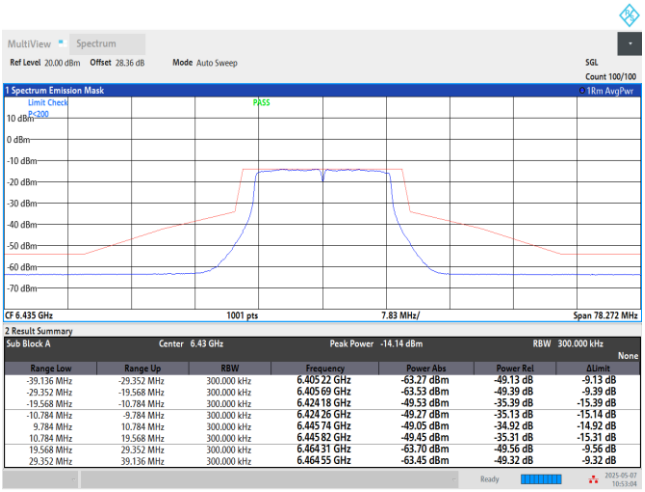
10:57:15 AM 05/07/2025

Plot on 6415 MHz



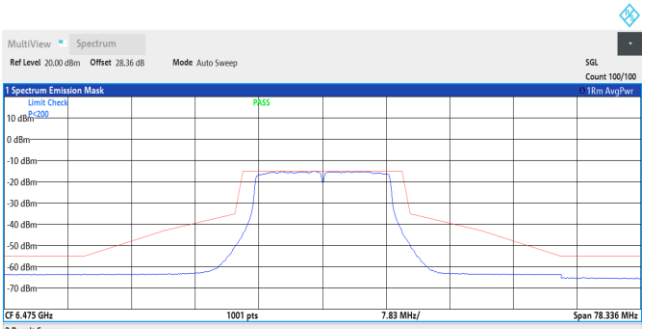
10:35:07 AM 05/07/2025

Plot on 6435 MHz



10:53:05 AM 05/07/2025

Plot on 6475 MHz



2 Result Summary

Sub Block A Center 6.47 GHz Peak Power -15.11 dBm RBW 300.000 kHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.168 MHz	-29.376 MHz	300.000 kHz	6.435 87 GHz	-63.51 dBm	-48.40 dB	-8.40 dB
-29.376 MHz	-19.584 MHz	300.000 kHz	6.445 74 GHz	-63.53 dBm	-48.42 dB	-8.52 dB
-19.584 MHz	-10.792 MHz	300.000 kHz	6.464 17 GHz	-50.77 dBm	-35.66 dB	-15.66 dB
-10.792 MHz	-9.792 MHz	300.000 kHz	6.464 25 GHz	-50.31 dBm	-35.20 dB	-15.20 dB
9.792 MHz	10.792 MHz	300.000 kHz	6.485 75 GHz	-49.74 dBm	-34.62 dB	-14.62 dB
10.792 MHz	19.584 MHz	300.000 kHz	6.485 83 GHz	-50.33 dBm	-35.21 dB	-15.21 dB
19.584 MHz	29.376 MHz	300.000 kHz	6.504 34 GHz	-63.59 dBm	-48.47 dB	-8.47 dB
29.376 MHz	39.168 MHz	300.000 kHz	6.505 67 GHz	-65.06 dBm	-49.95 dB	-9.95 dB

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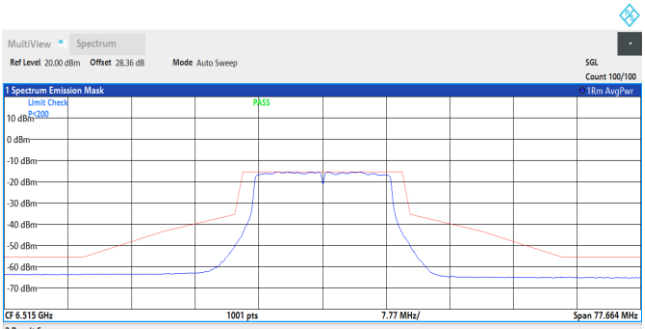
Plot on 6515 MHz



2 Result Summary

Sub Block A Center 6.51 GHz Peak Power -15.36 dBm RBW 300.000 kHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.832 MHz	-29.124 MHz	300.000 kHz	6.476 60 GHz	-63.47 dBm	-48.11 dB	-8.11 dB
-29.124 MHz	-19.416 MHz	300.000 kHz	6.485 91 GHz	-63.63 dBm	-48.27 dB	-8.27 dB
-19.416 MHz	-10.708 MHz	300.000 kHz	6.504 25 GHz	-50.31 dBm	-34.95 dB	-14.95 dB
-10.708 MHz	-9.708 MHz	300.000 kHz	6.504 33 GHz	-50.04 dBm	-34.68 dB	-14.68 dB
9.708 MHz	10.708 MHz	300.000 kHz	6.525 67 GHz	-50.06 dBm	-34.70 dB	-14.70 dB
10.708 MHz	19.416 MHz	300.000 kHz	6.525 75 GHz	-50.16 dBm	-34.80 dB	-14.80 dB
19.416 MHz	29.124 MHz	300.000 kHz	6.544 09 GHz	-65.16 dBm	-49.79 dB	-9.79 dB
29.124 MHz	38.832 MHz	300.000 kHz	6.545 02 GHz	-64.79 dBm	-49.42 dB	-9.42 dB

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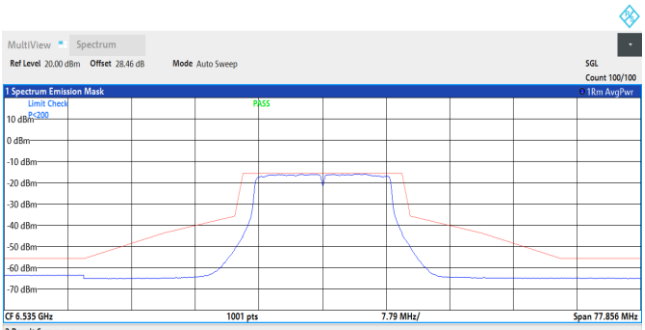
Plot on 6535 MHz



2 Result Summary

Sub Block A Center 6.54 GHz Peak Power -15.72 dBm RBW 300.000 kHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.928 MHz	-29.196 MHz	300.000 kHz	6.504 60 GHz	-63.38 dBm	-47.66 dB	-7.66 dB
-29.196 MHz	-19.464 MHz	300.000 kHz	6.505 84 GHz	-65.19 dBm	-49.47 dB	-9.47 dB
-19.464 MHz	-10.732 MHz	300.000 kHz	6.524 23 GHz	-51.44 dBm	-35.72 dB	-15.72 dB
-10.732 MHz	-9.732 MHz	300.000 kHz	6.524 31 GHz	-50.85 dBm	-35.13 dB	-15.13 dB
9.732 MHz	10.732 MHz	300.000 kHz	6.545 69 GHz	-50.05 dBm	-34.33 dB	-14.33 dB
10.732 MHz	19.464 MHz	300.000 kHz	6.545 77 GHz	-50.42 dBm	-34.70 dB	-14.70 dB
19.464 MHz	29.196 MHz	300.000 kHz	6.564 08 GHz	-64.95 dBm	-49.23 dB	-9.32 dB
29.196 MHz	38.928 MHz	300.000 kHz	6.567 50 GHz	-64.71 dBm	-48.99 dB	-8.99 dB

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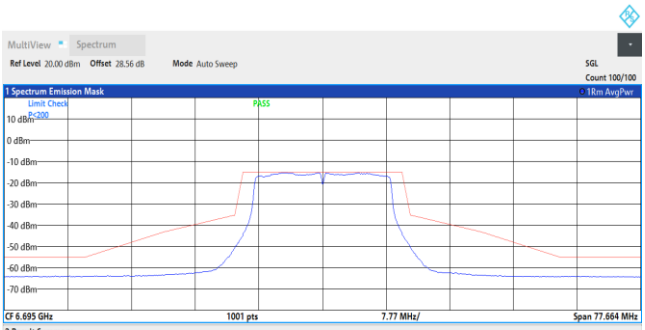
Plot on 6695 MHz



2 Result Summary

Sub Block A Center 6.70 GHz Peak Power -15.22 dBm RBW 300.000 kHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.832 MHz	-29.124 MHz	300.000 kHz	6.661 18 GHz	-63.84 dBm	-48.61 dB	-8.61 dB
-29.124 MHz	-19.416 MHz	300.000 kHz	6.665 91 GHz	-64.02 dBm	-48.79 dB	-8.79 dB
-19.416 MHz	-10.708 MHz	300.000 kHz	6.684 25 GHz	-50.64 dBm	-35.41 dB	-15.41 dB
-10.708 MHz	-9.708 MHz	300.000 kHz	6.684 33 GHz	-50.42 dBm	-35.20 dB	-15.20 dB
9.708 MHz	10.708 MHz	300.000 kHz	6.705 67 GHz	-49.93 dBm	-34.71 dB	-14.71 dB
10.708 MHz	19.416 MHz	300.000 kHz	6.705 75 GHz	-50.63 dBm	-35.41 dB	-15.41 dB
19.416 MHz	29.124 MHz	300.000 kHz	6.724 09 GHz	-64.08 dBm	-48.86 dB	-8.86 dB
29.124 MHz	38.832 MHz	300.000 kHz	6.724 47 GHz	-63.91 dBm	-48.69 dB	-8.69 dB

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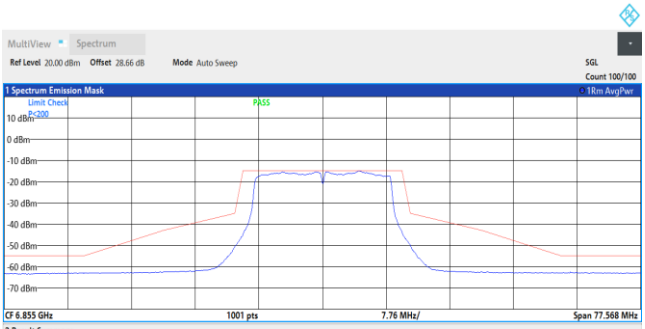
Plot on 6855 MHz



2 Result Summary

Sub Block A Center 6.86 GHz Peak Power -14.90 dBm RBW 300.000 kHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.784 MHz	-29.088 MHz	300.000 kHz	6.825 80 GHz	-62.88 dBm	-47.99 dB	-7.99 dB
-29.088 MHz	-19.392 MHz	300.000 kHz	6.825 95 GHz	-62.99 dBm	-48.09 dB	-8.09 dB
-19.392 MHz	-10.696 MHz	300.000 kHz	6.844 27 GHz	-50.95 dBm	-36.05 dB	-16.05 dB
-10.696 MHz	-9.696 MHz	300.000 kHz	6.844 35 GHz	-50.53 dBm	-35.63 dB	-15.63 dB
9.696 MHz	10.696 MHz	300.000 kHz	6.865 65 GHz	-49.96 dBm	-35.06 dB	-15.06 dB
10.696 MHz	19.392 MHz	300.000 kHz	6.865 73 GHz	-50.30 dBm	-35.40 dB	-15.40 dB
19.392 MHz	29.088 MHz	300.000 kHz	6.884 05 GHz	-62.96 dBm	-48.06 dB	-8.06 dB
29.088 MHz	38.784 MHz	300.000 kHz	6.885 21 GHz	-62.53 dBm	-47.63 dB	-7.63 dB

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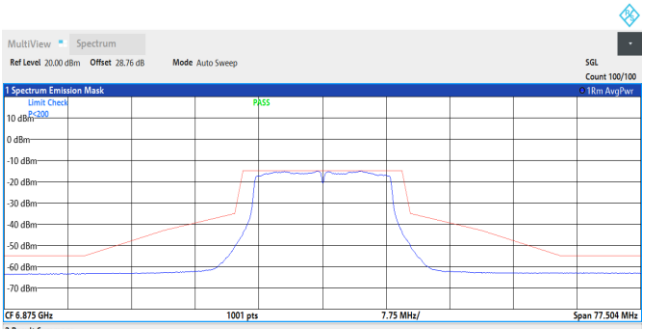
Plot on 6875 MHz



2 Result Summary

Sub Block A Center 6.88 GHz Peak Power -14.97 dBm RBW 300.000 kHz None

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.752 MHz	-29.064 MHz	300.000 kHz	6.843 96 GHz	-63.19 dBm	-48.22 dB	-8.22 dB
-29.064 MHz	-19.376 MHz	300.000 kHz	6.845 97 GHz	-63.06 dBm	-48.09 dB	-8.09 dB
-19.376 MHz	-10.688 MHz	300.000 kHz	6.864 27 GHz	-50.39 dBm	-35.42 dB	-15.42 dB
-10.688 MHz	-9.688 MHz	300.000 kHz	6.864 35 GHz	-50.29 dBm	-35.32 dB	-15.32 dB
9.688 MHz	10.688 MHz	300.000 kHz	6.885 65 GHz	-49.85 dBm	-34.88 dB	-14.88 dB
10.688 MHz	19.376 MHz	300.000 kHz	6.885 73 GHz	-50.21 dBm	-35.24 dB	-15.24 dB
19.376 MHz	29.064 MHz	300.000 kHz	6.903 87 GHz	-62.91 dBm	-47.94 dB	-8.13 dB
29.064 MHz	38.752 MHz	300.000 kHz	6.908 60 GHz	-62.74 dBm	-47.77 dB	-7.77 dB

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