



FCC RADIO TEST REPORT

FCC ID : UZ7ET4010B
Equipment : Kiosk Computer
Brand Name : ZEBRA
Model Name : ET4010B
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 May 04, 2026 and testing was performed from May 18, 2026 to Jun. 15, 2026. 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 variant 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.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR641615H	01	Initial issue of report	Jun. 08, 2026
FR641615H	02	Revise Summary of Test Result This report is an updated version, replacing the report issued on Jun. 08, 2026.	Jun. 09, 2026
FR641615H	03	Revise Contention Based Protocol This report is an updated version, replacing the report issued on Jun. 08, 2026.	Jun. 16, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.407(a)(11)	26dB Emission Bandwidth	Pass	See Note
-	2.1049	99% Occupied Bandwidth	Pass	See Note
3.1	15.407(a) (9)	Fundamental Maximum EIRP	Pass	-
-	15.407(a) (9)	Fundamental Power Spectral Density	Pass	See Note
-	15.407(b)	In-Band Emissions (Channel Mask)	Pass	See Note
3.2	15.407(d)(6)	Contention Based Protocol	Pass	-
3.3	15.407(b)	Unwanted Emissions	Pass	5.49 dB under the limit at 5913.88 MHz
-	15.207	AC Conducted Emission	Pass	See Note
3.4	15.203	Antenna Requirement	Pass	-

Note: This is a variant report. Details of the changes are provided in the Product Equality Declaration document. All applicable test cases were previously performed and reported under FCC ID: UZ7ET4010B. The CBP evaluation was performed in the Indoor Client test report under FCC ID: UZ7ET4010B. The Standard Client and VLP Client modes utilize the same CBP implementation and operating characteristics as the evaluated Indoor Client configuration. As the antenna gains of this variant device are lower than those of the evaluated configuration, the CBP test results are considered representative and applicable to these modes.

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/manufacture 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: William Chen

Report Producer: Freda Wu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Kiosk Computer
Brand Name	ZEBRA
Model Name	ET4010B
FCC ID	UZ7ET4010B
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	15-16-09.00-VG-U00-PRD-ERS-04
MFC	03APR26
EUT Stage	Identical Prototype

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

Specification of Accessories				
Power Supply 1	Brand Name	Zebra	Part Number	PWR-BUA5V16W0WW
Power Supply 2	Brand Name	Delta	Model Name	ADP-36PH B
DC LINE CORD	Brand Name	Zebra	Part Number	CBL-DC-383A1-01
AC LINE CORD	Brand Name	Zebra	Part Number	50-16000-182R
USB Cable 1 USB-C to C Cable	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01
USB Cable 2 for USB A Scanners	Brand Name	Zebra	Part Number	CBA-U46-S07ZAR
Scanner	Brand Name	Zebra	Model Name	KC401-SCNR
Handheld Scanner	Brand Name	Zebra	Model Name	DS3608
Wall Mounting Bracket (100 VESA)	Brand Name	Zebra	Part Number	KT-152097-01
Wall Mounting Bracket (w/pwr supply holder)	Brand Name	Zebra	Part Number	KT-152097-03
Wall Mounting Bracket (Slim)	Brand Name	Zebra	Part Number	KT-152098-03
Pole Mounting (w/pwr supply holder)	Brand Name	Zebra	Part Number	KT-152096-03
CC6000 Print Kiosk mounting kit	Brand Name	Zebra	Part Number	BRKT-DPA-SK1-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard									
Tx/Rx Frequency Range	5925 MHz ~ 6425 MHz 6425 MHz ~ 6525 MHz 6525 MHz ~ 6875 MHz 6875 MHz ~ 7125 MHz								
Antenna Type	<Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna								
Antenna Gain	<5925 MHz ~ 6425 MHz> <Ant. 6>: -0.51 dBi <Ant. 7>: 0.62 dBi <6425 MHz ~ 6525 MHz> <Ant. 6>: -0.55 dBi <Ant. 7>: -0.24 dBi <6525 MHz ~ 6875 MHz> <Ant. 6>: 0.07 dBi <Ant. 7>: -1.03 dBi <6875 MHz ~ 7125 MHz> <Ant. 6>: -0.45 dBi <Ant. 7>: -0.9 dBi								
Type of Modulation	802.11a : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM) 802.11be: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM/4096-QAM)								
Antenna Function Description	<table><tr><td></td><td>Ant. 6</td><td>Ant. 7</td></tr><tr><td>802.11be MIMO</td><td>V</td><td>V</td></tr></table>				Ant. 6	Ant. 7	802.11be MIMO	V	V
	Ant. 6	Ant. 7							
802.11be MIMO	V	V							

Remark:

1. MIMO Ant. 6+7 Directional Gain is a calculated result from MIMO Ant. 6 and MIMO Ant. 7. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 6 + Ant. 7 is a calculated result from sum of the power MIMO Ant. 6 and MIMO Ant. 7.
3. 802.11be Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
4. 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 k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

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

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

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

			DG for Power (dBi)	DG for PSD (dBi)
	Ant 6 (dBi)	Ant 7 (dBi)		
6875 MHz ~ 7125 MHz	-0.45	-0.90	-0.45	2.34

Calculation example:

If a device has two antenna, $G_{ANT6} = -0.45$ dBi; $G_{ANT7} = -0.90$ dBi

Directional gain of power measurement = $\max(-0.20, 0.01) + 0 = -0.45$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{(-0.45 \text{ dBi} / 20)} + 10^{(-0.90 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

$$= 2.34 \text{ dBi}$$

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

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, 03CH21-HY

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

FCC designation No.: 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 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.
- ♦ FCC Part 15 Subpart E
- ♦ ANSI C63.10-2020+ Cor.1-2023

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: 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 Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

Power of MIMO Ant. 6 + Ant. 7 is a calculated result from sum of the power MIMO Ant. 6 and MIMO Ant. 7.

The device WIFI MIMO support 1S2T (CDD & Tx Beamforming) (Nss=1) mode& SDM (2S2T :Nss=2) mode by manufacturer declared.

For 802.11a, it does not support SDM & Tx Beamforming so the correlated gain for CDD is applied.

For 802.11be 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.

802.11be 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.

The device supports 1S2T (CDD & Tx Beamforming) and 2S2T (SDM) mode;
1S2T: Nss=1, MIMO 2Tx; 2S2T: Nss=2, MIMO 2Tx.

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.

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 320M	Channel	31							
	Freq. (MHz)	6105							

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 320M	Channel	63							
	Freq. (MHz)	6265							

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 320M	Channel	95							
	Freq. (MHz)	6425							



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 320M	Channel	127							
	Freq. (MHz)	6585							

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 320M	Channel	159							
	Freq. (MHz)	6745							

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 320M	Channel	191							
	Freq. (MHz)	6905							



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

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

MIMO Mode

Modulation	Data Rate
802.11be EHT20	MCS0
802.11be EHT320	MCS0

Remark:

1. The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.
2. The detailed Radiated test modes are shown in Appendix B.

MIMO <Ant. 6+7>

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11a	802.11a	802.11a	802.11a
L	Low	001	097	117	189
M	Middle	049	105	149	209
H	High	093	113	-	233
Straddle		-	-	185	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT20	802.11be EHT20	802.11be EHT20	802.11be EHT20
L	Low	001	097	117	189
M	Middle	049	105	149	209
H	High	093	113	-	-
Straddle		-	-	185	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT40	802.11be EHT40	802.11be EHT40	802.11be EHT40
L	Low	003	099	123	195
M	Middle	051	-	147	211
H	High	091	107	-	227
Straddle		-	115	187	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT80	802.11be EHT80	802.11be EHT80	802.11be EHT80
L	Low	007	103	135	199
M	Middle	055		151	-
H	High	087		-	215
Straddle		-	-	183	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT160	802.11be EHT160	802.11be EHT160	802.11be EHT160
L	Low	015	-	143	207
M	Middle	047			
H	High	079			
Straddle		-	111	175	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11be EHT320	802.11be EHT320	802.11be EHT320	802.11be EHT320
L	Low	031	-	-	-
M	Middle	-			
H	High	063			
Straddle		095	127	159	191

This device supports WiFi 7 puncturing and Multi RU features.

80M channel puncturing 20M M-RU_RU484+RU242	1		242	484	
	2	242		484	
	3	484			242
	4	484	242		
160M channel puncturing 20M M-RU_RU996+RU484+RU242	1		242	484	996
	2	242		484	996
	3	484		242	996
	4	484	242		996
	5	996		242	484
	6	996		242	484
	7	996		484	242
	8	996		484	242
	1		484	996	

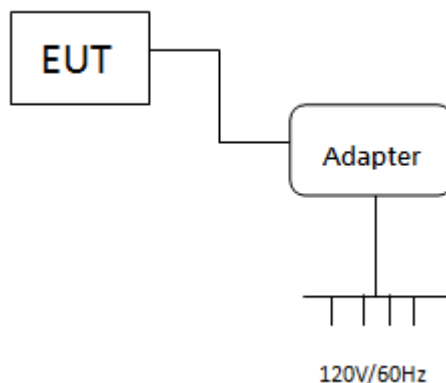
160M channel puncturing 40M M-RU_RU996+RU484	2	484			996		
	3	996				484	
	4	996		484			
320M channel puncturing 40M M-RU_RU484+RU996+RU996+RU996	1		484		996	996	996
	2	484			996	996	996
	3	996			484	996	996
	4	996		484		996	996
	5	996		996		484	996
	6	996		996		484	996
	7	996		996		996	484
	8	996		996		996	484
320M channel puncturing 80M M-RU_RU996+RU996+RU996	1				996	996	996
	2	996				996	996
	3	996		996			996
	4	996		996		996	
320M channel puncturing 40M+80M M-RU_RU484+RU996+RU996	1		484		996	996	
	2	484			996	996	
	3	996			484	996	
	4	996		484		996	
	5	996		996		484	
	6	996		996		484	
	7				484	996	996
	8			484		996	996
	9			996		484	996
	10			996		484	996
	11			996		996	484
	12			996		996	484

Remark:

- 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.
- The radiated emission test results for the UNII-5 and UNII-7 bands were reused from the standard power mode measurements, as the standard power mode has a higher output power level.

2.3 Connection Diagram of Test System

<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.	NB	Lenovo	NB-44	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT V4.0.193.1” 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.

3 Test Result

3.1 Fundamental Maximum EIRP Measurement

3.1.1 Limit of Fundamental Maximum EIRP

(a)(9) For very low power devices operating in the 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum e.i.r.p must not exceed 14 dBm.

3.1.2 Measuring Instruments

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

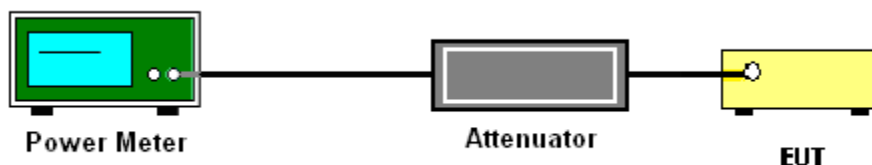
3.1.3 Test Procedures

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.

3.1.4 Test Setup



3.1.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.

3.2 Contention Based Protocol

3.2.1 Limit of Contention Based Protocol

<FCC CFR 15.407>

(d)(6)All U-NII transmitters, except for standard power access points and fixed 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 v03

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

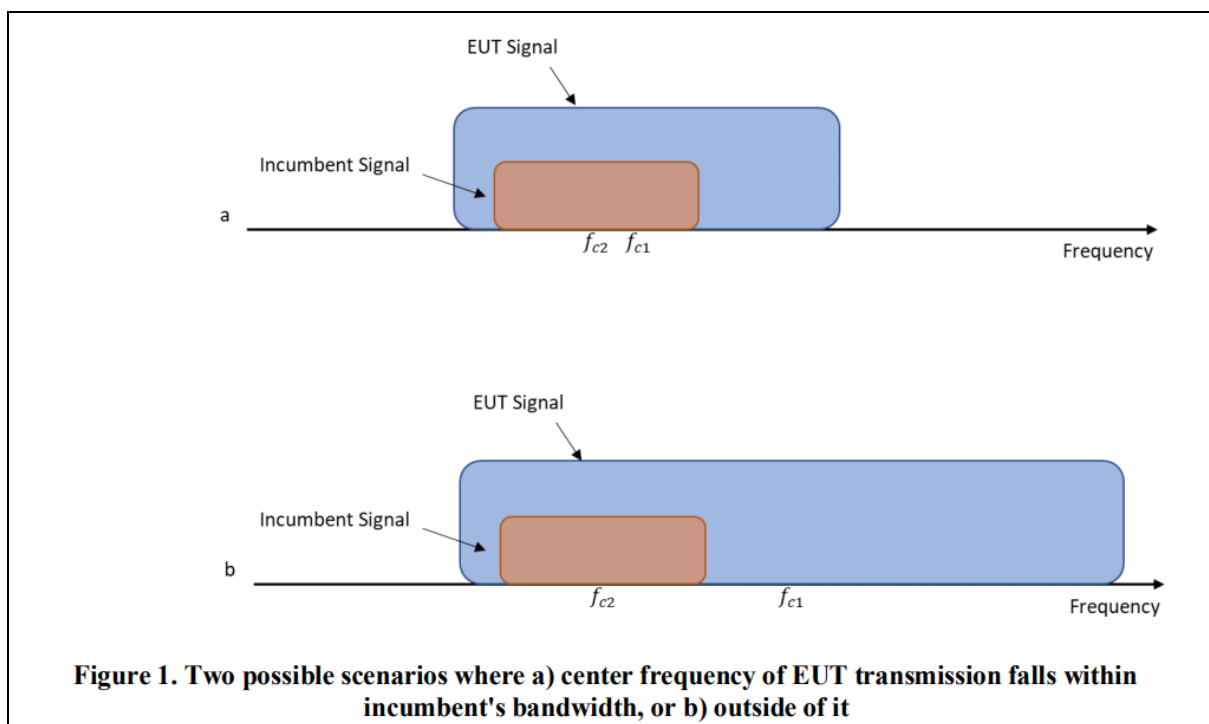
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v03.

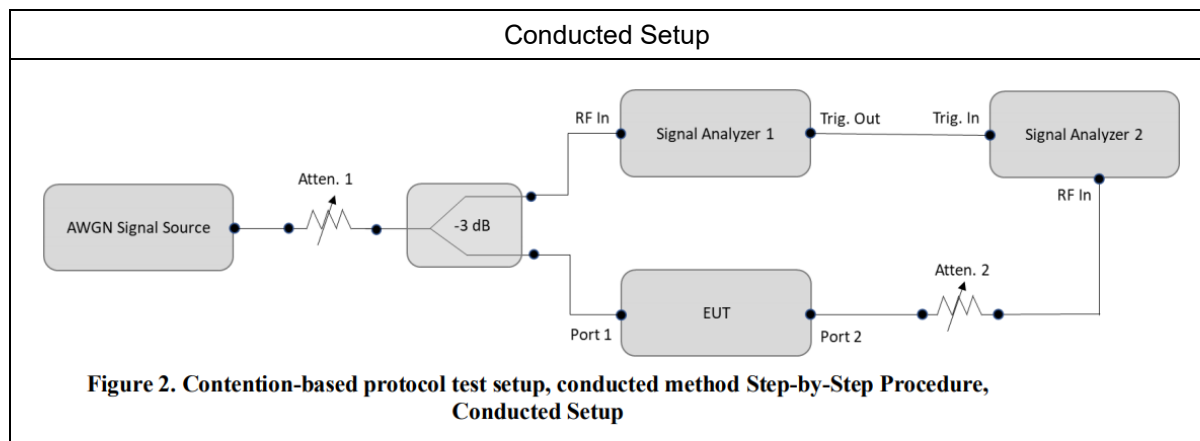
Section I) Contention Based Protocol

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).

3.2.4 Test Setup



3.2.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	RT-BE96U	Tri-Band Wi-Fi 7 Router
Notebook	DELL	Latitude 3400	LAN

3.2.6 Minimum Antenna gain for Contention Based Protocol Test

Antenna Gain	<UNII-5>: -0.51 dBi <UNII-6>: -0.55 dBi <UNII-7>: -1.03 dBi <UNII-8>: -0.9 dBi
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3.2.7 Test Summary of Contention Based Protocol Test

Test Engineer :	Ray Wang	Temperature :	21.3~23.3℃
		Relative Humidity :	49.8~54.8%

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	-71.12	100	-62	-70.61	8.61
					Result: Stop Transmission			
				-75.12	< 90	-62	-74.61	12.61
					Result: Minimal Operation			
				-76.12	0	-62	-75.61	13.61
					Result: Normal Operation			
	6105	320	5950	-66.27	100	-62	-65.76	3.76
					Result: Stop Transmission			
				-72.27	< 90	-62	-71.76	9.76
					Result: Minimal Operation			
				-73.27	0	-62	-72.76	10.76
					Result: Normal Operation			
			6105	-64.1	100	-62	-63.59	1.59
					Result: Stop Transmission			
				-71.10	< 90	-62	-70.59	8.59
					Result: Minimal Operation			
				-72.10	0	-62	-71.59	9.59
					Result: Normal Operation			
			6260	-66.19	100	-62	-65.68	3.68
					Result: Stop Transmission			
				-70.19	< 90	-62	-69.68	7.68
					Result: Minimal Operation			
				-71.19	0	-62	-70.68	8.68
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-0.51 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	-72.14	100	-62	-71.59	9.59
					Result: Stop Transmission			
				-74.14	< 90	-62	-73.59	11.59
					Result: Minimal Operation			
				-75.14	0	-62	-74.59	12.59
					Result: Normal Operation			
	6425	320	6270	-63.65	100	-62	-62.62	0.62
					Result: Stop Transmission			
				-71.65	< 90	-62	-70.62	8.62
					Result: Minimal Operation			
				-72.65	0	-62	-71.62	9.62
					Result: Normal Operation			
			6425	-64.61	100	-62	-63.58	1.58
					Result: Stop Transmission			
				-71.61	< 90	-62	-70.58	8.58
					Result: Minimal Operation			
				-72.61	0	-62	-71.58	9.58
					Result: Normal Operation			
			6580	-69.56	100	-62	-68.53	6.53
					Result: Stop Transmission			
				-72.56	< 90	-62	-71.53	9.53
					Result: Minimal Operation			
				-73.56	0	-62	-72.53	10.53
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-0.55 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	-72.62	100	-62	-71.59	9.59
					Result: Stop Transmission			
				-73.62	< 90	-62	-72.59	10.59
					Result: Minimal Operation			
				-74.62	0	-62	-73.59	11.59
					Result: Normal Operation			
	6745	320	6590	-70.61	100	-62	-69.58	7.58
					Result: Stop Transmission			
				-72.61	< 90	-62	-71.58	9.58
					Result: Minimal Operation			
				-73.61	0	-62	-72.58	10.58
					Result: Normal Operation			
			6745	-65.64	100	-62	-64.61	2.61
					Result: Stop Transmission			
				-71.64	< 90	-62	-70.61	8.61
					Result: Minimal Operation			
				-72.64	0	-62	-71.61	9.61
					Result: Normal Operation			
			6900	-68.61	100	-62	-67.58	5.58
					Result: Stop Transmission			
				-72.61	< 90	-62	-71.58	9.58
					Result: Minimal Operation			
				-73.61	0	-62	-72.58	10.58
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-1.03 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	-70.52	100	-62	-69.62	7.62
					Result: Stop Transmission			
				-72.52	< 90	-62	-71.62	9.62
					Result: Minimal Operation			
				-73.52	0	-62	-72.62	10.62
					Result: Normal Operation			
	6905	320	6750	-68.51	100	-62	-67.48	5.48
					Result: Stop Transmission			
				-73.51	< 90	-62	-72.48	10.48
					Result: Minimal Operation			
				-74.51	0	-62	-73.48	11.48
					Result: Normal Operation			
			6905	-64.55	100	-62	-63.52	1.52
					Result: Stop Transmission			
				-70.55	< 90	-62	-69.52	7.52
					Result: Minimal Operation			
				-71.55	0	-62	-70.52	8.52
					Result: Normal Operation			
			7060	-66.6	100	-62	-65.57	3.57
					Result: Stop Transmission			
				-72.60	< 90	-62	-71.57	9.57
					Result: Minimal Operation			
				-73.60	0	-62	-72.57	10.57
					Result: Normal Operation			

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (-0.9 dBi).

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

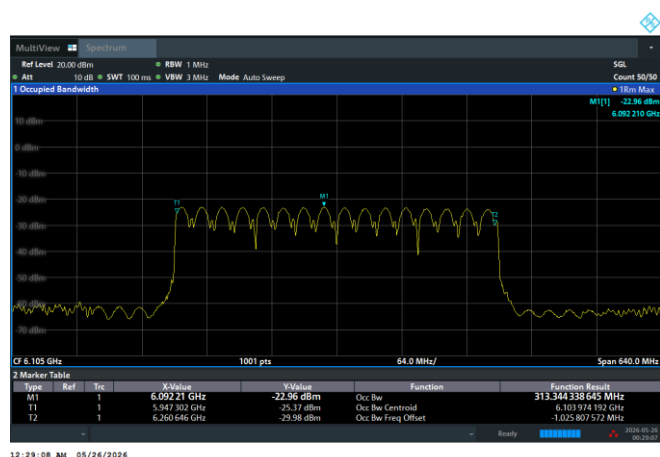
Note 3: Margin = Regulated Threshold level - Adjusted Power.

CBP verify with frequency domain plots

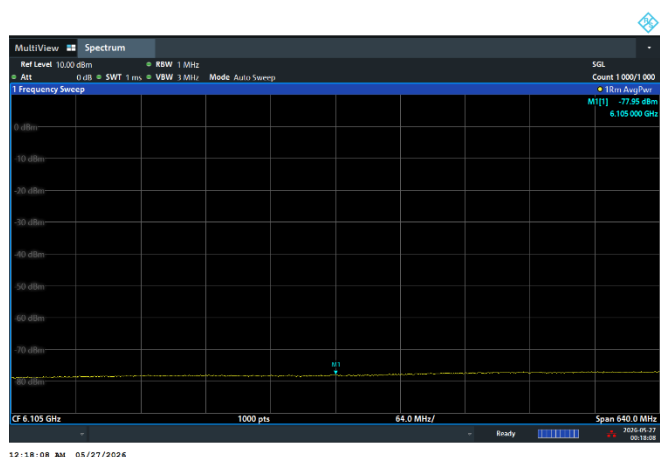
The device does not support channel puncturing with regards to Contention Based Protocol.

1. The entire bandwidth 320MHz stops transmission after the incumbent signal appears.
2. The entire bandwidth 320MHz changes to a new 320MHz channel after the incumbent signal appears
3. Otherwise, the entire 320MHz bandwidth is reduced to 80MHz or 160MHz.
4. Otherwise, the entire 320MHz bandwidth is reduced to 20MHz or 40MHz first, than changes to a new 320MHz channel.

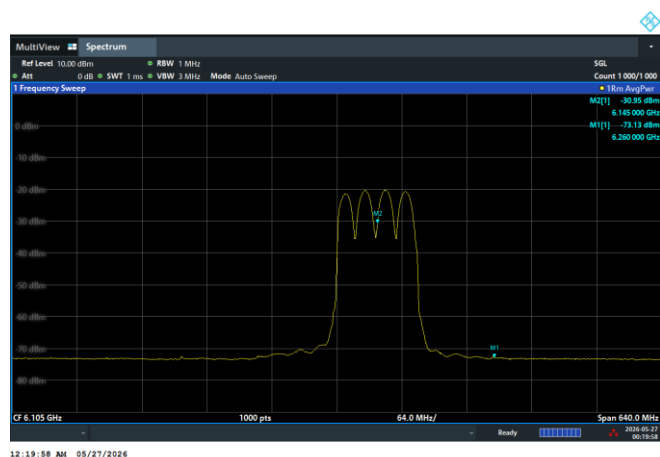
Before incumbent injected on 80MHz channel



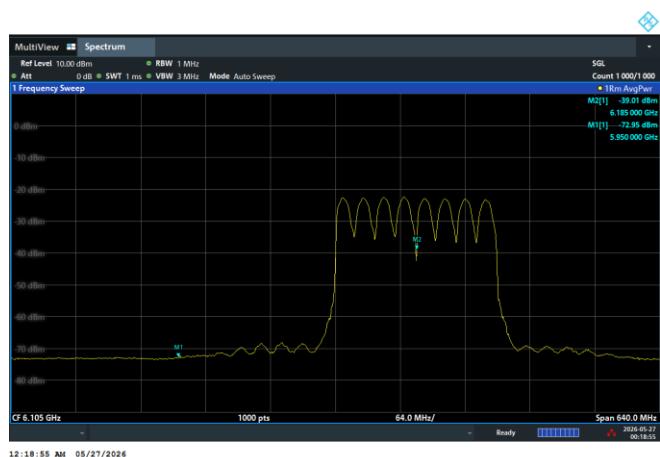
After 10MHz incumbent injected on center of channel, the entire 320MHz bandwidth stops transmission.



After 10MHz incumbent injected on bottom of channel, the EUT bandwidth is reduced from 320MHz to 20MHz first, than changes to a new 320MHz channel.

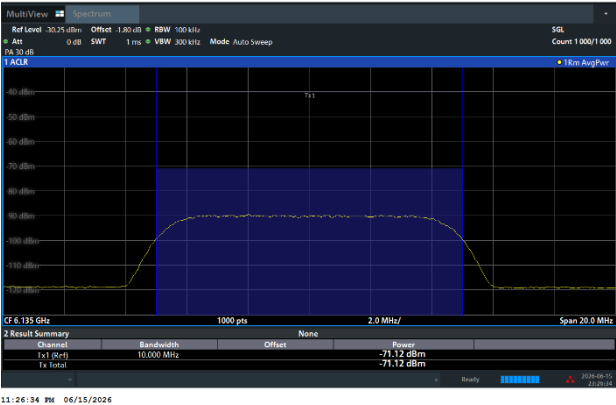
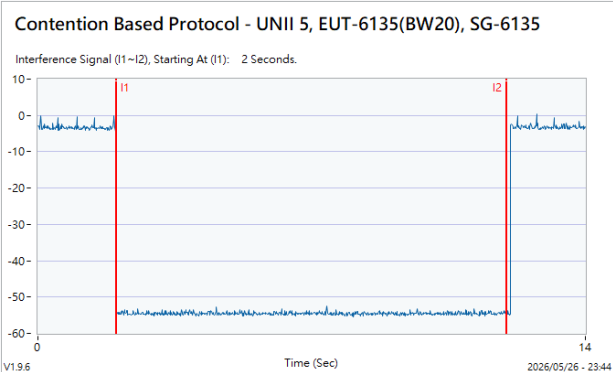
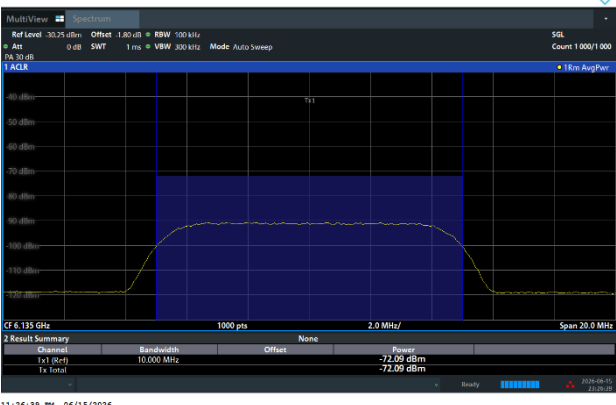
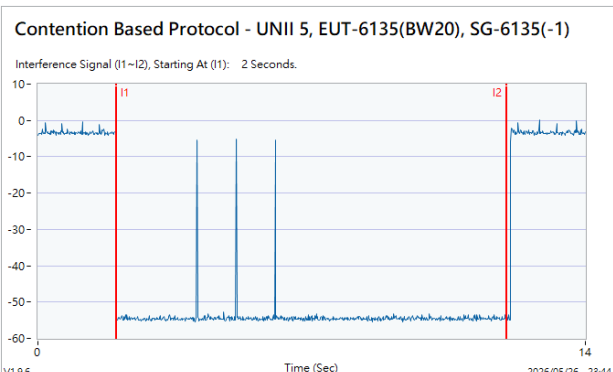


After 10MHz incumbent injected on top of channel, the EUT bandwidth is reduced from 320MHz to 20MHz first, than changes to a new 320MHz channel





3.2.8 Test Plots of Contention Based Protocol Test

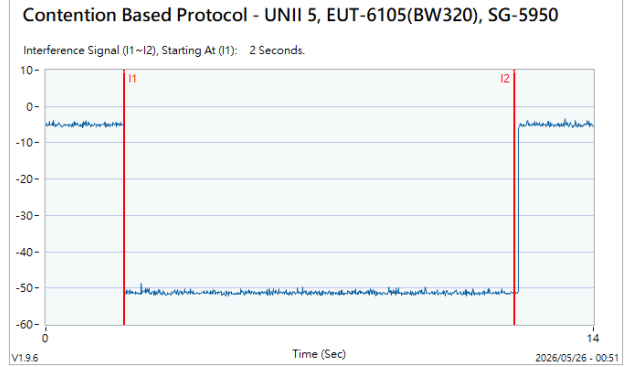
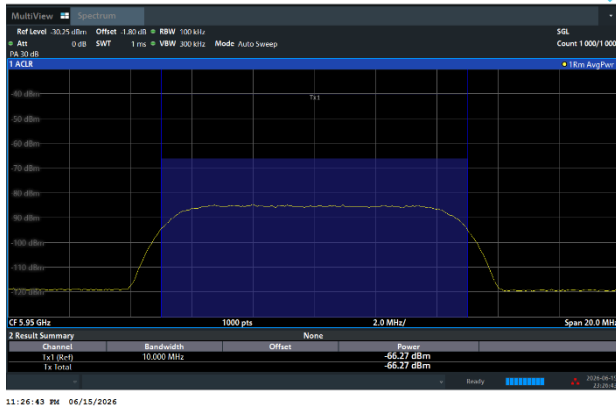
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -71.12dBm	802.11ax (HE20) / CH37 Test result is pass due to no transmission occur.
	
802.11ax (HE20) / 6135MHz Threshold Level (TL) = -72.09dBm	802.11ax (HE20) / CH37 Transmit when the interferer is 1dB lower.
	



Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

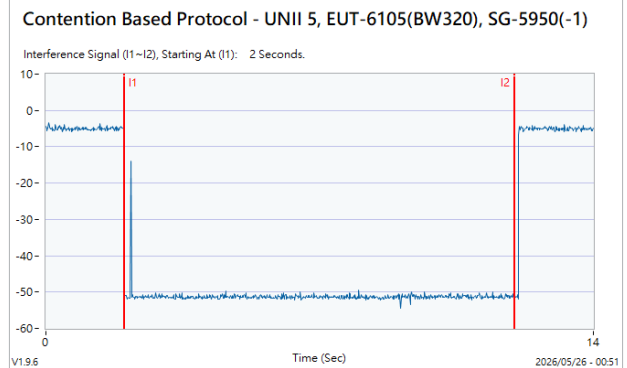
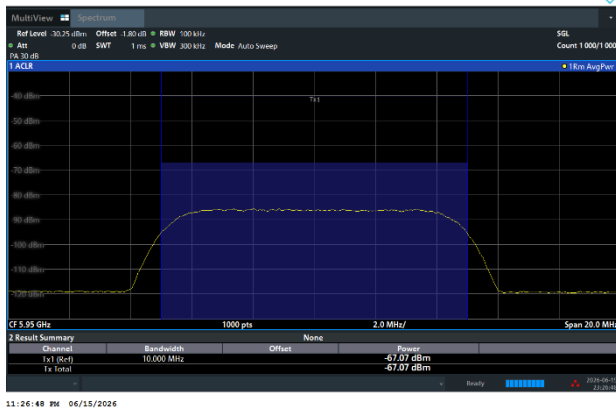
802.11ax (HE320) / 5950MHz (Lower edge)
Threshold Level (TL) = -66.27dBm

802.11ax (HE320) / CH63 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE320) / 5950MHz (Lower edge)
Threshold Level (TL) = -67.07dBm

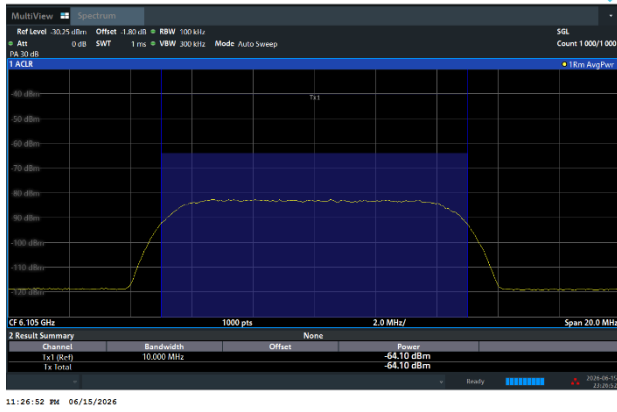
802.11ax (HE320) / CH63 (Lower edge)
Transmit when the interferer is 1dB lower.



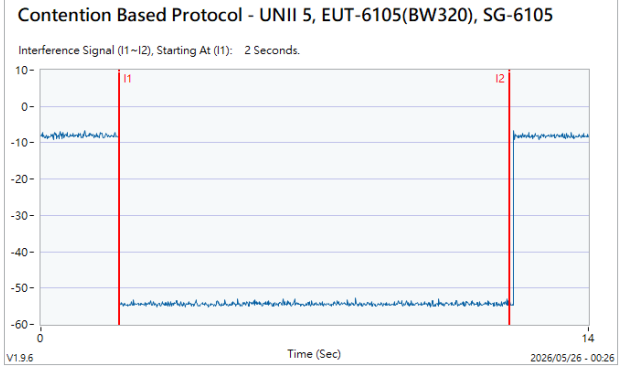


Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

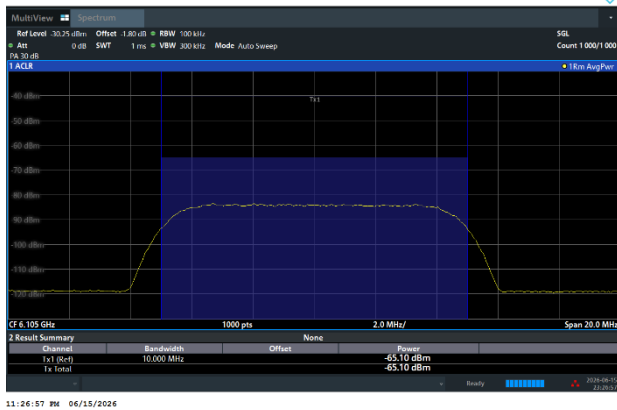
802.11ax (HE320) / 6105MHz (Middle)
Threshold Level (TL) = -64.1dBm



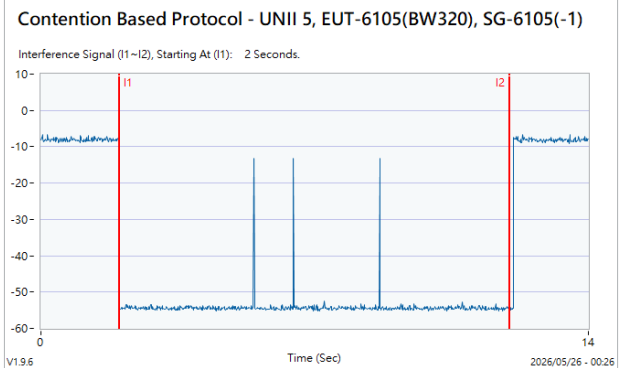
802.11ax (HE320) / CH63 (Middle)
Test result is pass due to no transmission occur.



802.11ax (HE320) / 6105MHz (Middle)
Threshold Level (TL) = -65.1dBm



802.11ax (HE320) / CH63 (Middle)
Transmit when the interferer is 1dB lower.

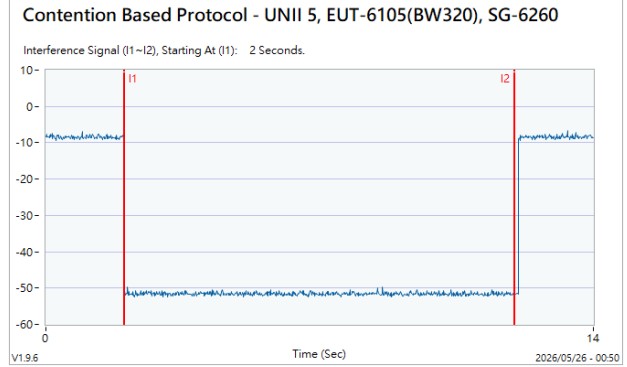
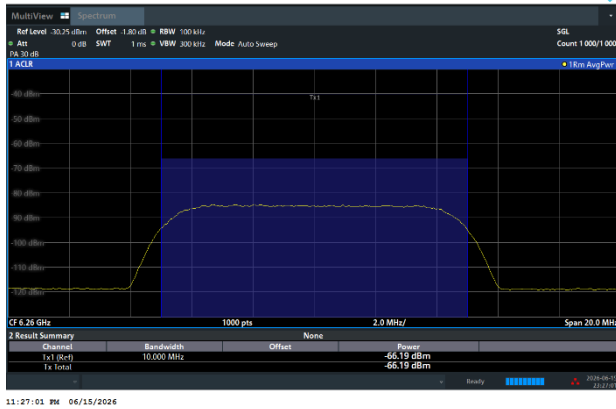




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

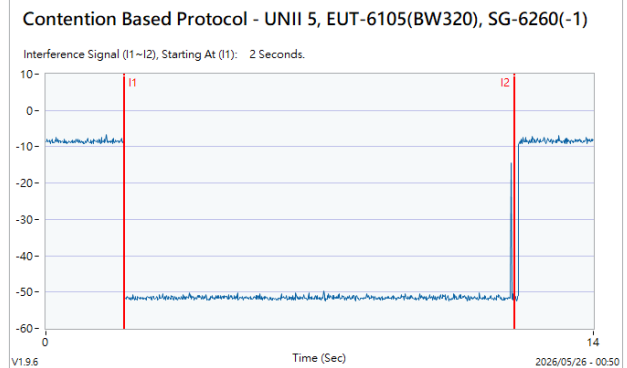
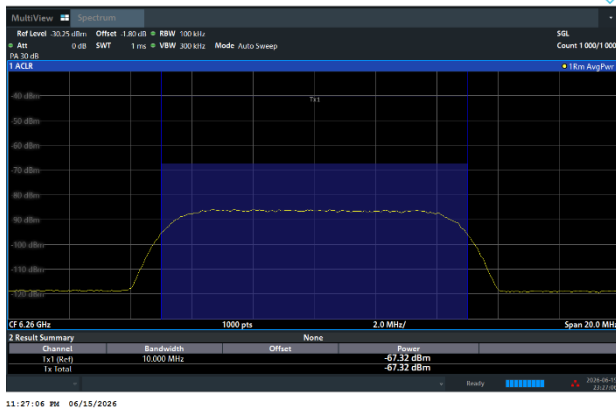
802.11ax (HE320) / 6260MHz (Upper edge)
Threshold Level (TL) = -66.19dBm

802.11ax (HE320) / CH63 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE320) / 6260MHz (Upper edge)
Threshold Level (TL) = -67.32dBm

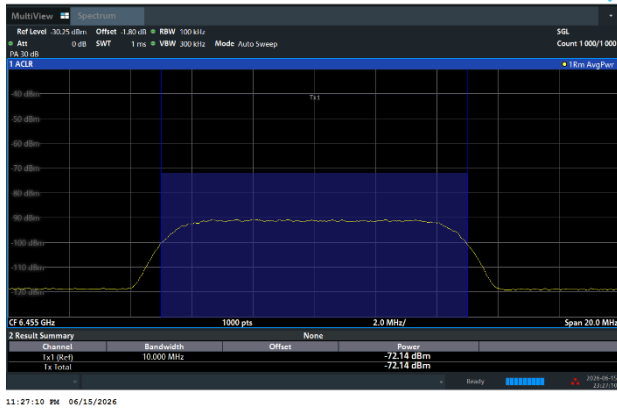
802.11ax (HE320) / CH63 (Upper edge)
Transmit when the interferer is 1dB lower.





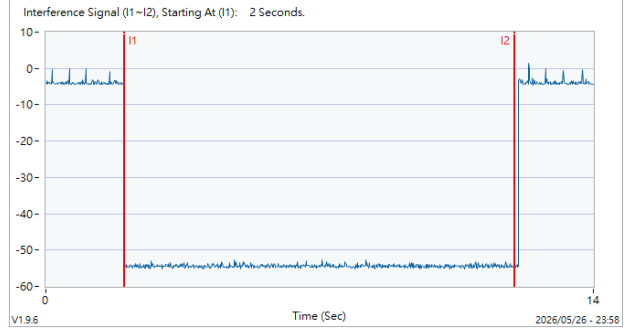
Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -72.14dBm

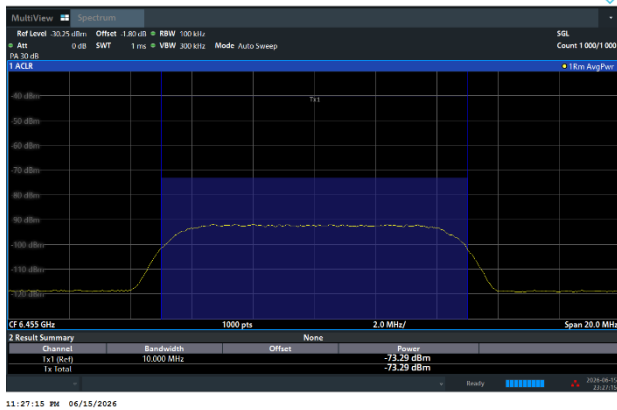


802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.

Contention Based Protocol - UNII 6, EUT-6455(BW20), SG-6455

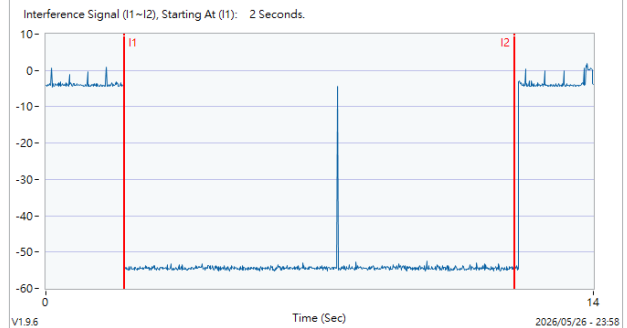


802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -73.29dBm



802.11ax (HE20) / CH101
Transmit when the interferer is 1dB lower.

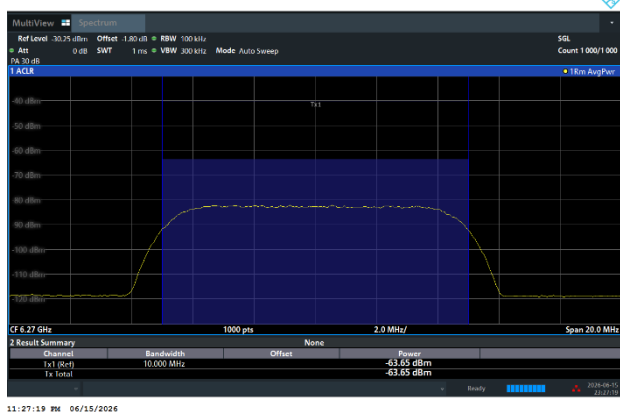
Contention Based Protocol - UNII 6, EUT-6455(BW20), SG-6455(-1)



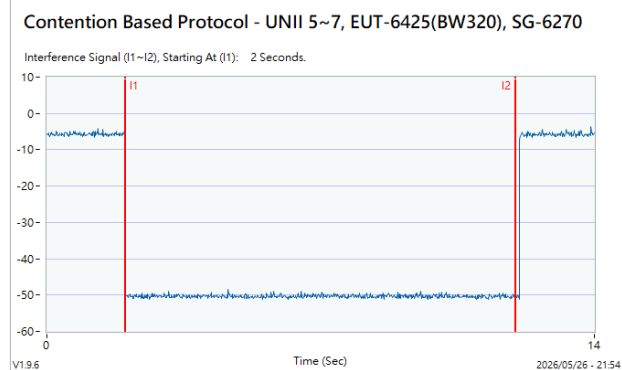


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

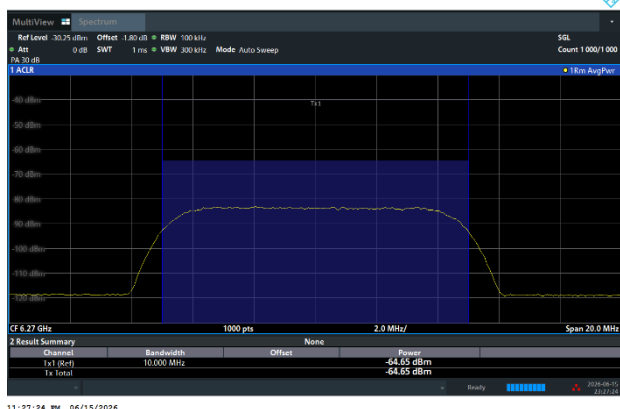
802.11ax (HE320) / 6270MHz (Lower edge)
Threshold Level (TL) = -63.65dBm



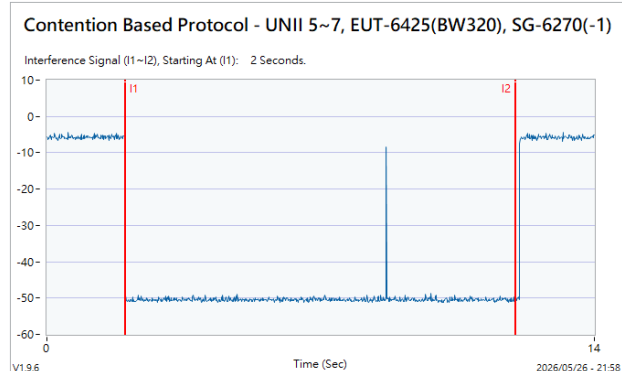
802.11ax (HE320) / CH127 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE320) / 6270MHz (Lower edge)
Threshold Level (TL) = -64.65dBm



802.11ax (HE320) / CH127 (Lower edge)
Transmit when the interferer is 1dB lower.

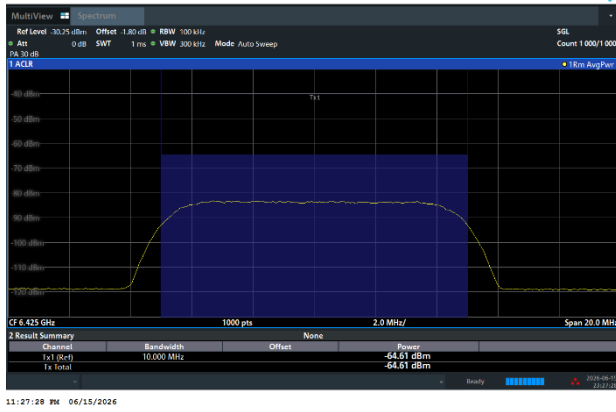




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

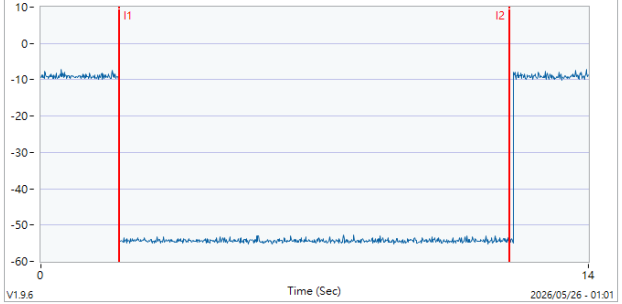
802.11ax (HE320) / 6425MHz (Middle)
Threshold Level (TL) = -64.61dBm

802.11ax (HE320) / CH127 (Middle)
Test result is pass due to no transmission occur.



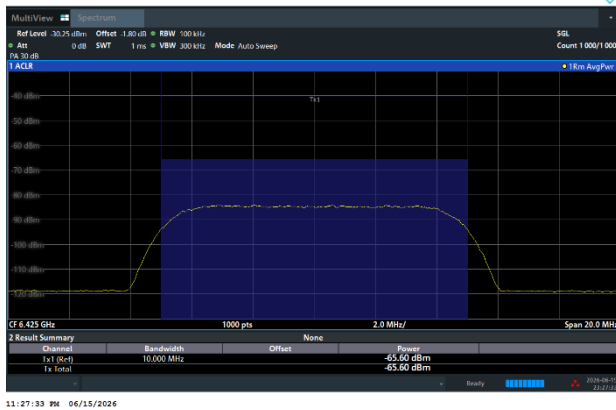
Contention Based Protocol - UNII 5~7, EUT-6425(BW320), SG-6425

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



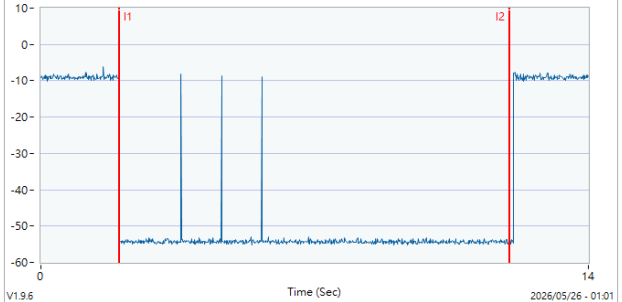
802.11ax (HE320) / 6425MHz (Middle)
Threshold Level (TL) = -65.6dBm

802.11ax (HE320) / CH127 (Middle)
Transmit when the interferer is 1dB lower.



Contention Based Protocol - UNII 5~7, EUT-6425(BW320), SG-6425(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

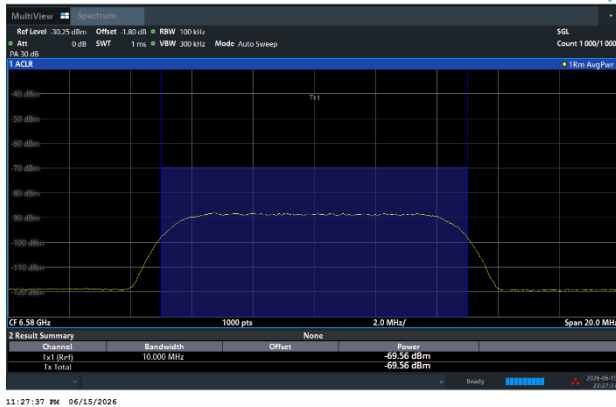




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

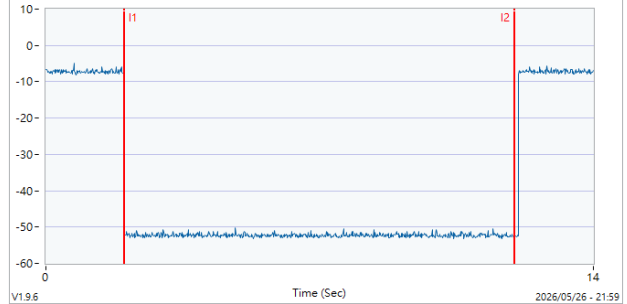
802.11ax (HE320) / 6580MHz (Upper edge)
Threshold Level (TL) = -69.56dBm

802.11ax (HE320) / CH127 (Upper edge)
Test result is pass due to no transmission occur.



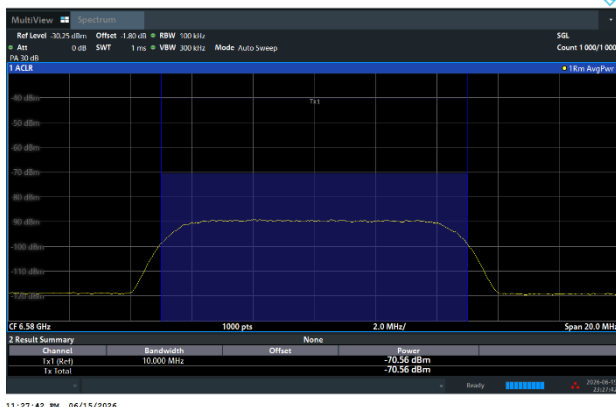
Contention Based Protocol - UNII 5~7, EUT-6425(BW320), SG-6580

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



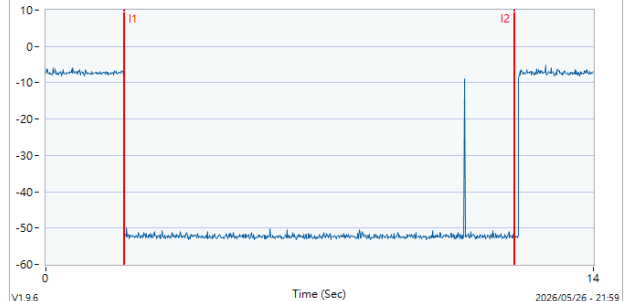
802.11ax (HE320) / 6580MHz (Upper edge)
Threshold Level (TL) = -70.56dBm

802.11ax (HE320) / CH127 (Upper edge)
Transmit when the interferer is 1dB lower.



Contention Based Protocol - UNII 5~7, EUT-6425(BW320), SG-6580(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

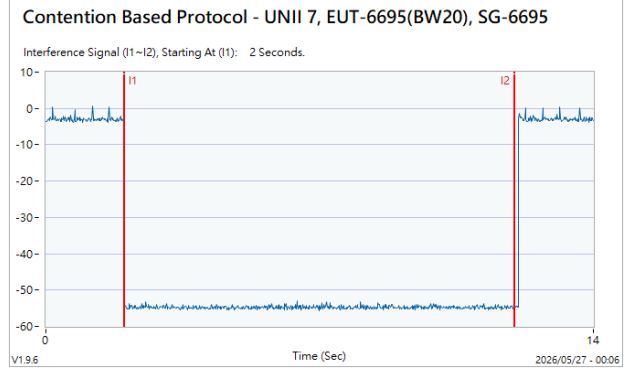
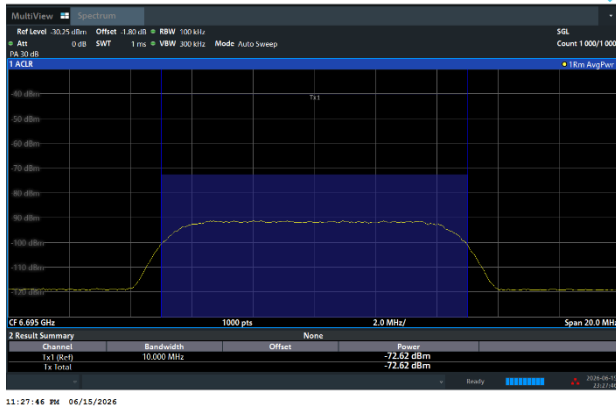




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

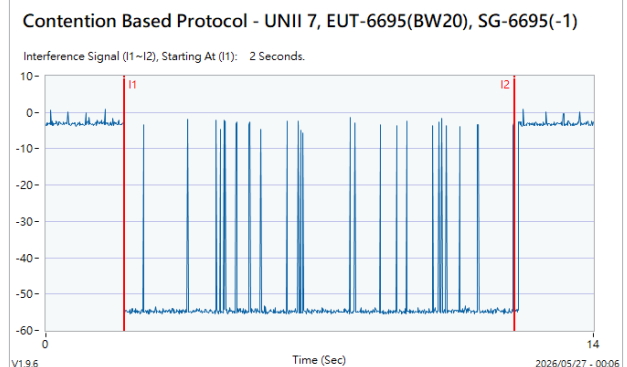
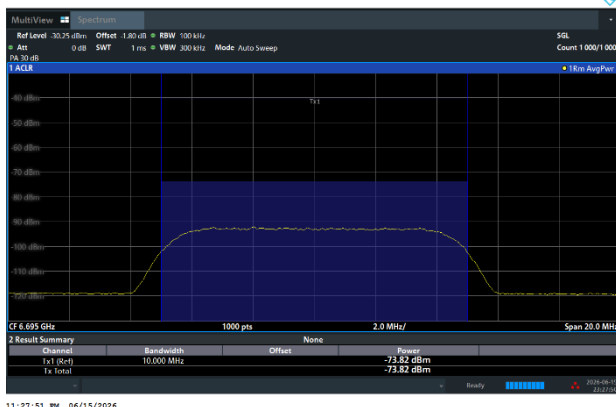
802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -72.62dBm

802.11ax (HE20) / CH149
Test result is pass due to no transmission occur.



802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -73.82dBm

802.11ax (HE20) / CH149
Transmit when the interferer is 1dB lower.

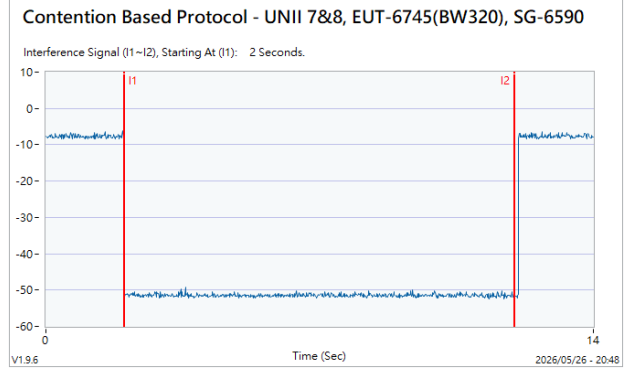
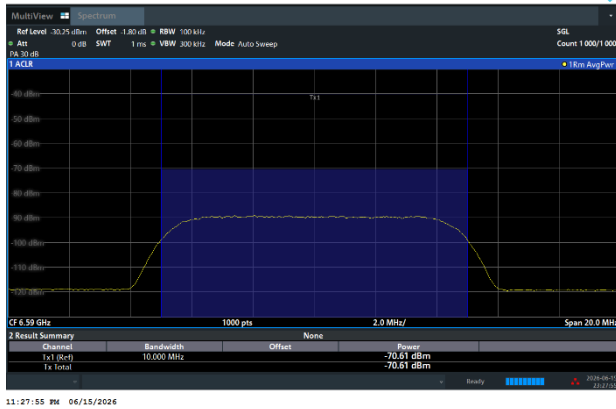




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

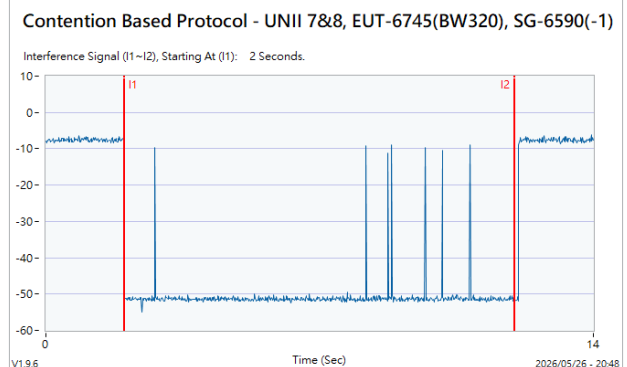
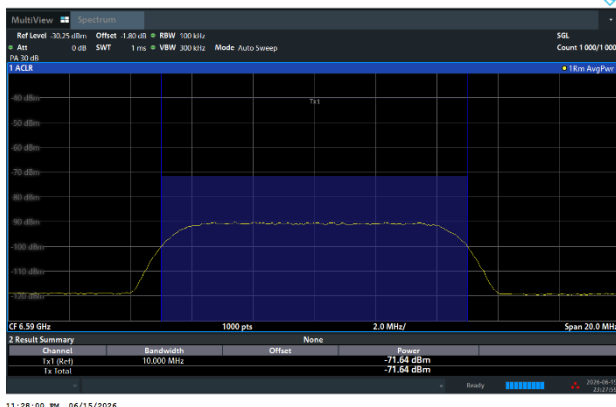
802.11ax (HE320) / 6590MHz (Lower edge)
Threshold Level (TL) = -70.61dBm

802.11ax (HE320) / CH159 (Lower edge)
Test result is pass due to no transmission occur.



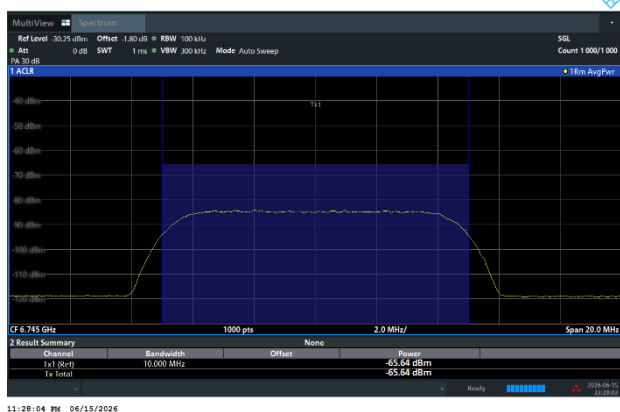
802.11ax (HE320) / 6590MHz (Lower edge)
Threshold Level (TL) = -71.64dBm

802.11ax (HE320) / CH159 (Lower edge)
Transmit when the interferer is 1dB lower.



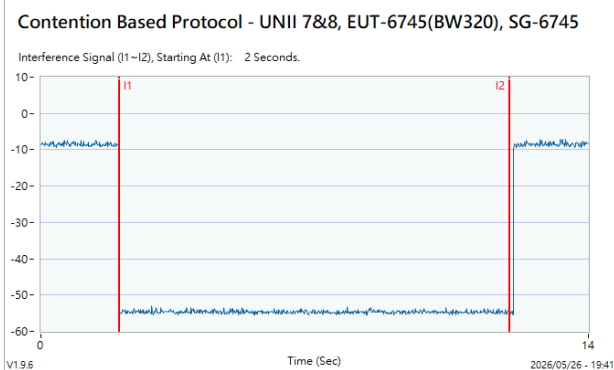
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE320) / 6745MHz (Middle)
Threshold Level (TL) =-65.64dBm

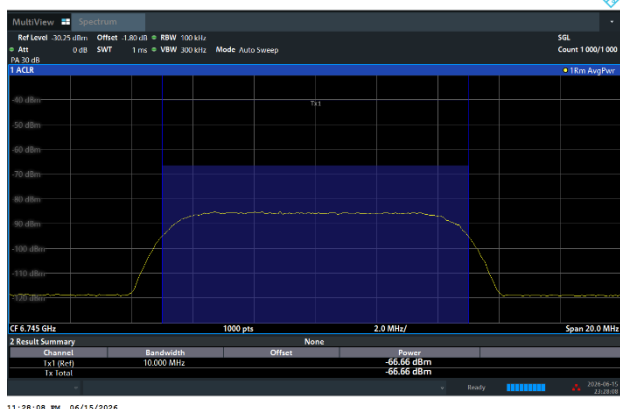


802.11ax (HE320) / CH159 (Middle)

Test result is pass due to no transmission occur.

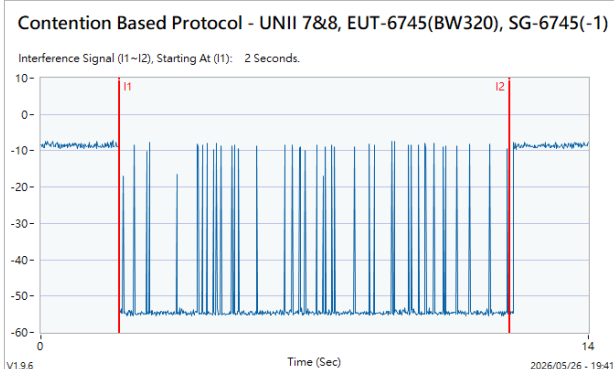


802.11ax (HE320) / 6745MHz (Middle)
Threshold Level (TL) = -66.66dBm



802.11ax (HE320) / CH159 (Middle)

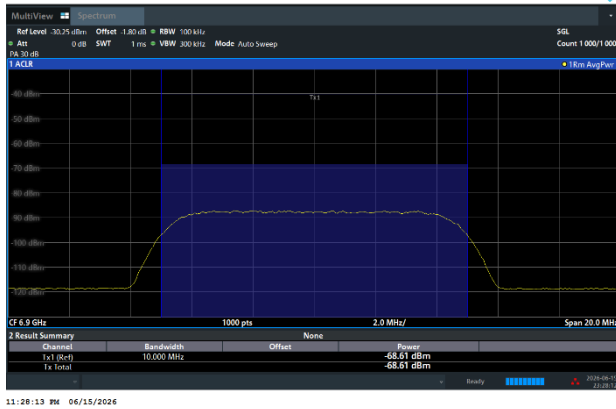
Transmit when the interferer is 1dB lower.



Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

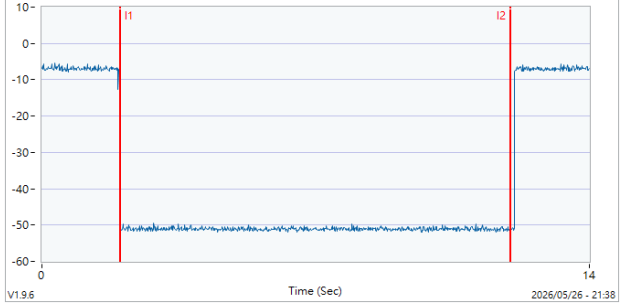
802.11ax (HE320) / 6900MHz (Upper edge)
Threshold Level (TL) = -68.61dBm

802.11ax (HE320) / CH159 (Upper edge)
Test result is pass due to no transmission occur.



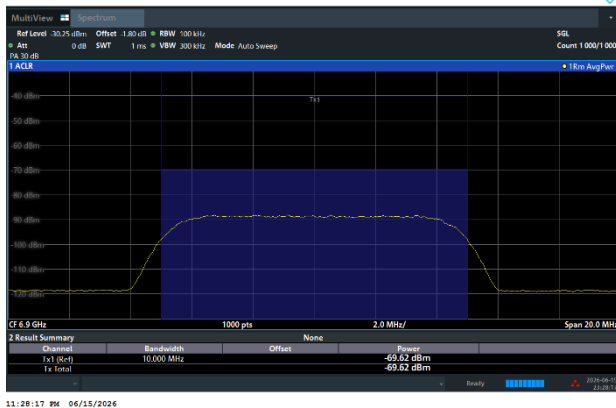
Contention Based Protocol - UNII 7&8, EUT-6745(BW320), SG-6900

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



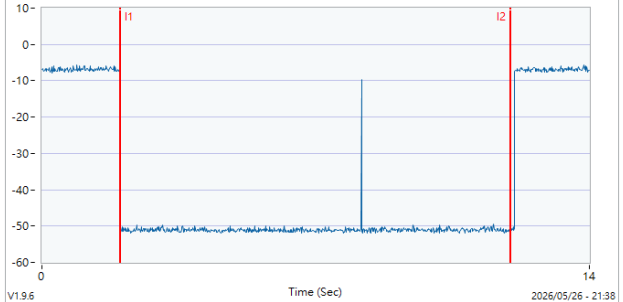
802.11ax (HE320) / 6900MHz (Upper edge)
Threshold Level (TL) = -69.62dBm

802.11ax (HE320) / CH159 (Upper edge)
Transmit when the interferer is 1dB lower.



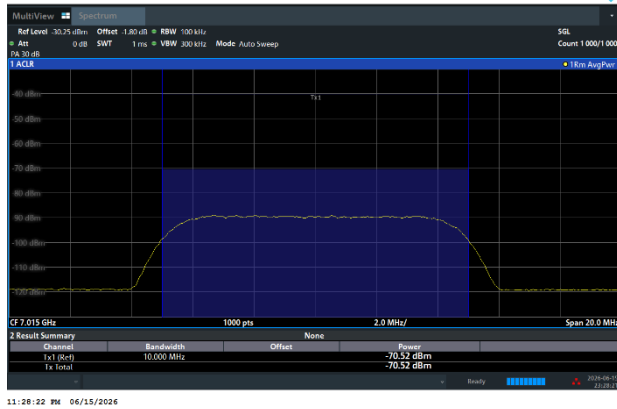
Contention Based Protocol - UNII 7&8, EUT-6745(BW320), SG-6900(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



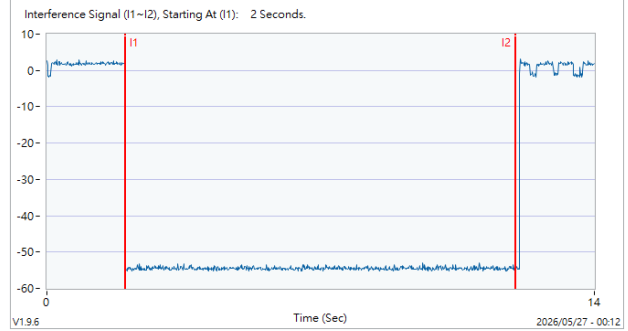
Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -70.52dBm

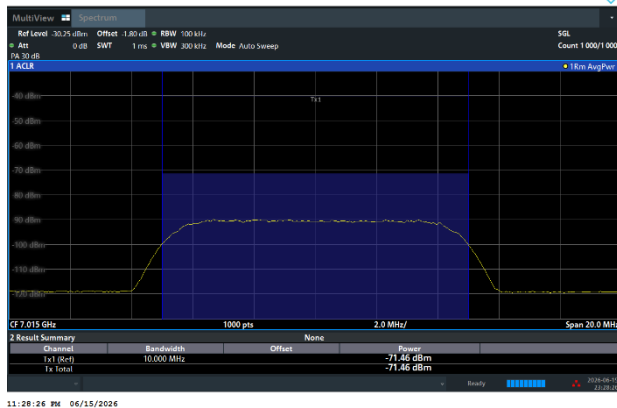


802.11ax (HE20) / CH213
Test result is pass due to no transmission occur.

Contention Based Protocol - UNII 8, EUT-7015(BW20), SG-7015



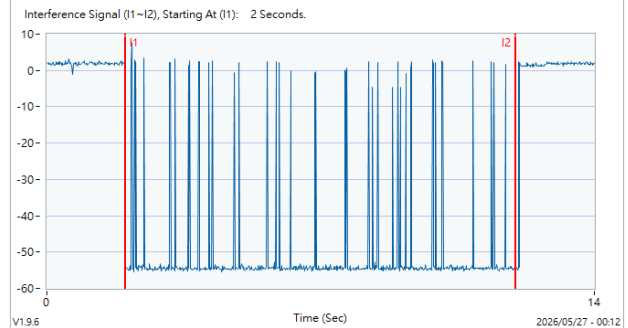
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -71.46dBm



802.11ax (HE20) / CH213

Transmit when the interferer is 1dB lower.

Contention Based Protocol - UNII 8, EUT-7015(BW20), SG-7015(-1)

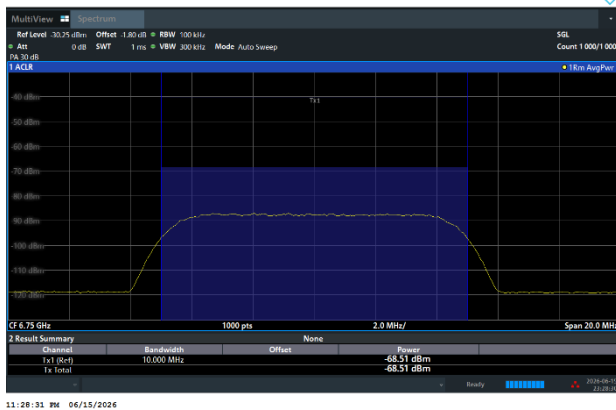




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

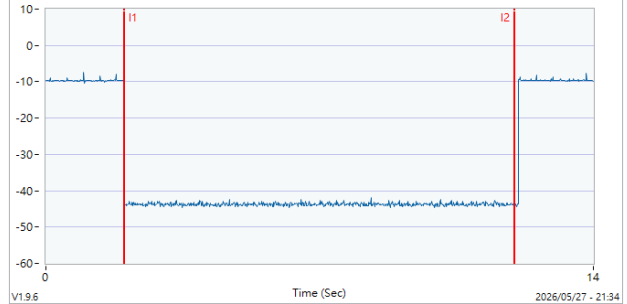
802.11ax (HE320) / 6750MHz (Lower edge)
Threshold Level (TL) = -68.51dBm

802.11ax (HE320) / CH191 (Lower edge)
Test result is pass due to no transmission occur.



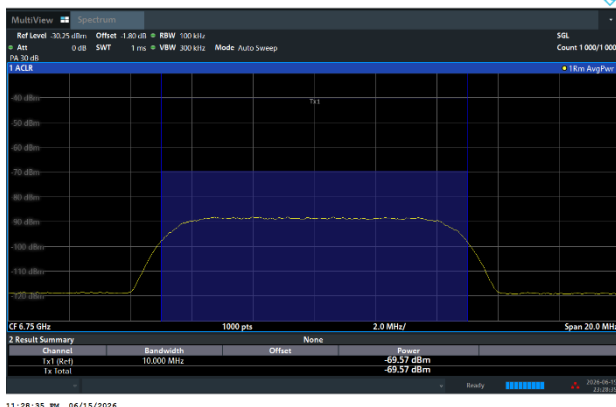
Contention Based Protocol - UNII 7&8, EUT-6905(BW320), SG-6750

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



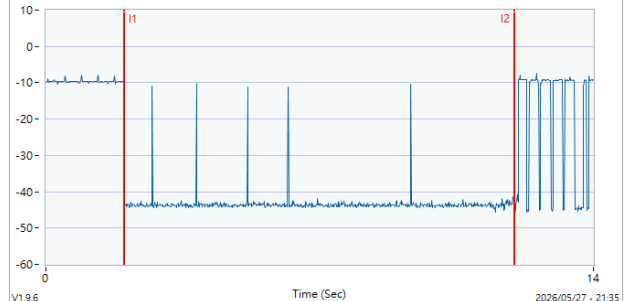
802.11ax (HE320) / 6750MHz (Lower edge)
Threshold Level (TL) = -69.57dBm

802.11ax (HE320) / CH191 (Lower edge)
Transmit when the interferer is 1dB lower.



Contention Based Protocol - UNII 7&8, EUT-6905(BW320), SG-6750(-1)

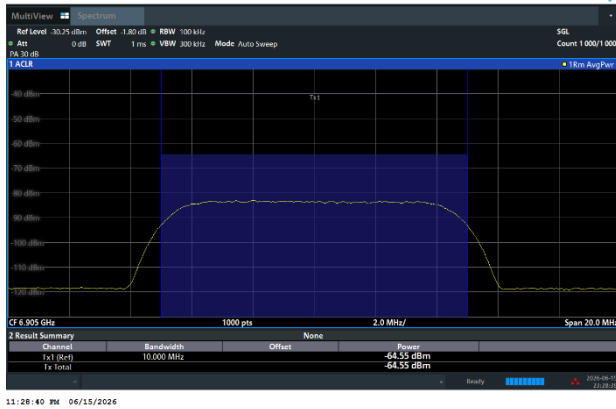
Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

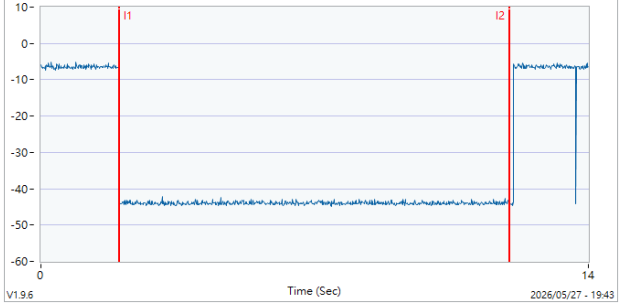
802.11ax (HE320) / 6905MHz (Middle)
Threshold Level (TL) = -64.55dBm

802.11ax (HE320) / CH191 (Middle)
Test result is pass due to no transmission occur.



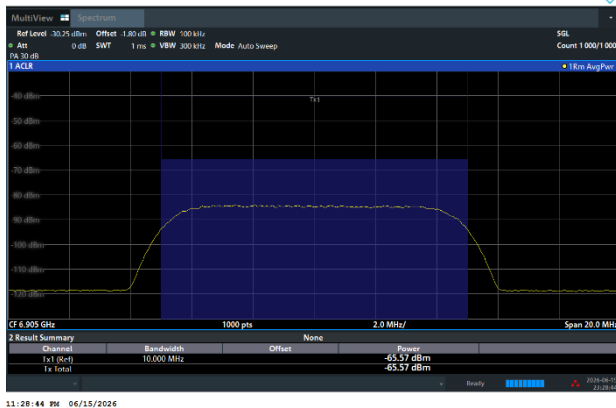
Contention Based Protocol - UNII 7&8, EUT-6905(BW320), SG-6905

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.



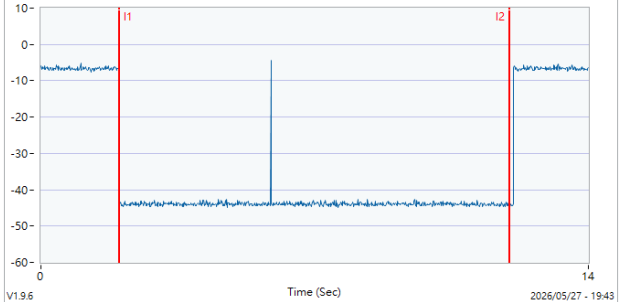
802.11ax (HE320) / 6905MHz (Middle)
Threshold Level (TL) = -65.57dBm

802.11ax (HE320) / CH191 (Middle)
Transmit when the interferer is 1dB lower.



Contention Based Protocol - UNII 7&8, EUT-6905(BW320), SG-6905(-1)

Interference Signal (I1~I2), Starting At (I1): 2 Seconds.

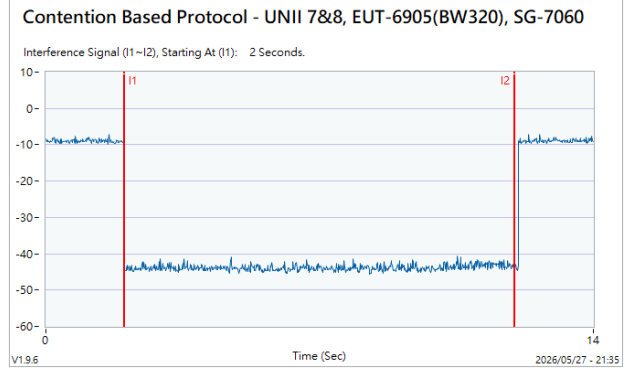
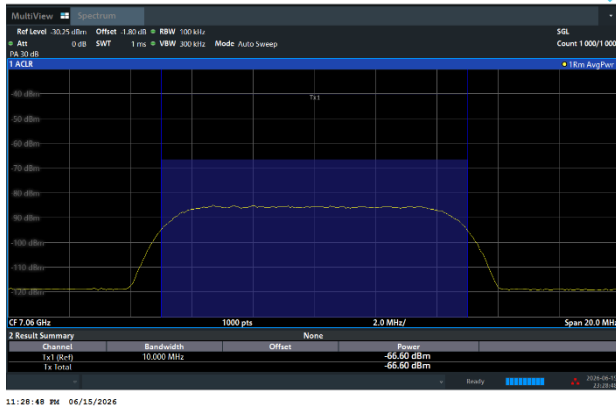




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

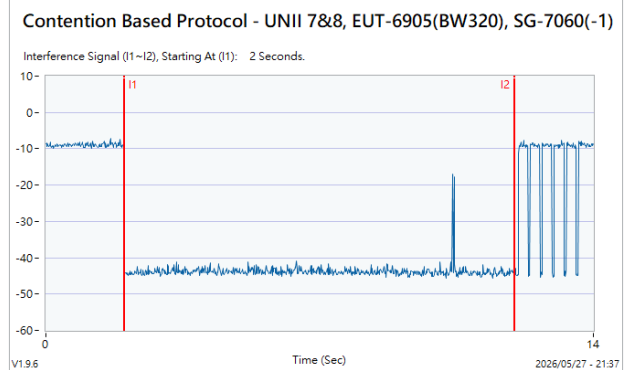
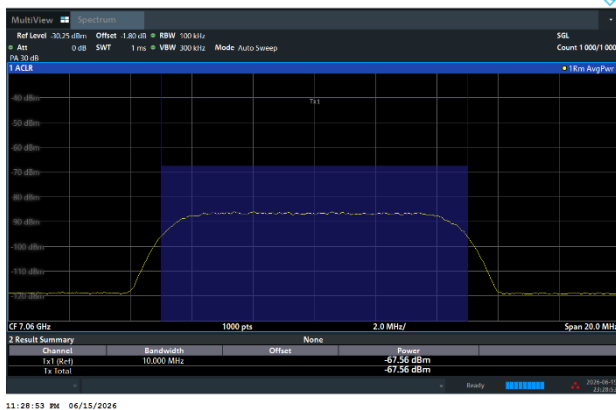
802.11ax (HE320) / 7060MHz (Upper edge)
Threshold Level (TL) = -66.6dBm

802.11ax (HE320) / CH191 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE320) / 7060MHz (Upper edge)
Threshold Level (TL) = -67.56dBm

802.11ax (HE320) / CH191 (Upper edge)
Transmit when the interferer is 1dB lower.



3.3 Unwanted Emissions Measurement

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

3.3.1 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 v03 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.

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

3.3.2 Measuring Instruments

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

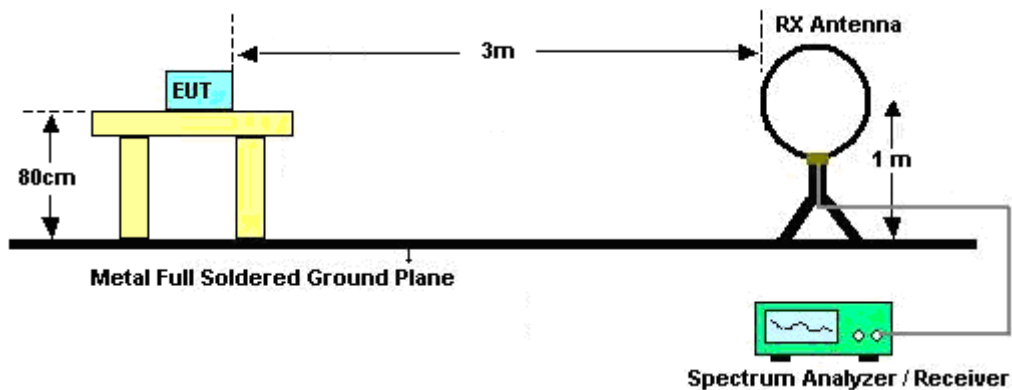


3.3.3 Test Procedures

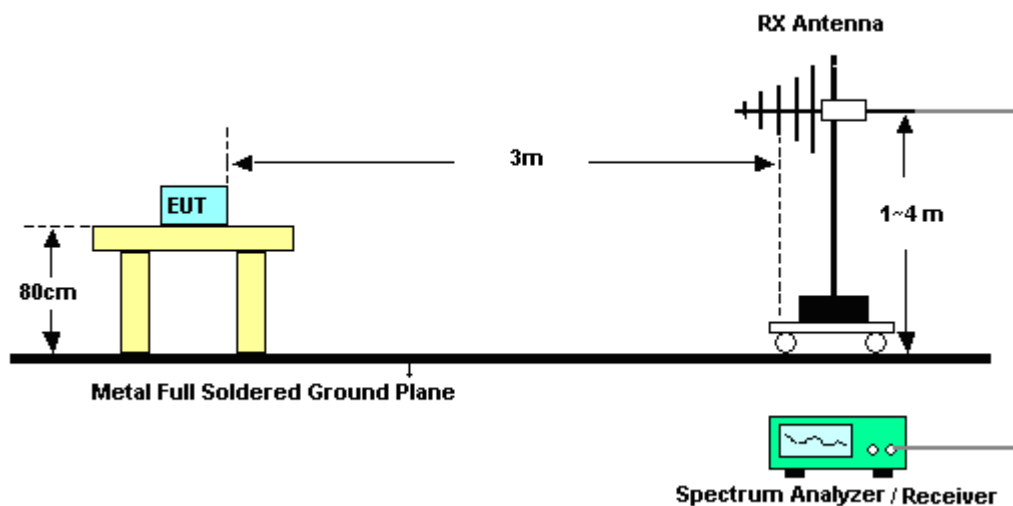
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 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 $\geq$ 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 “-”.

3.3.4 Test Setup

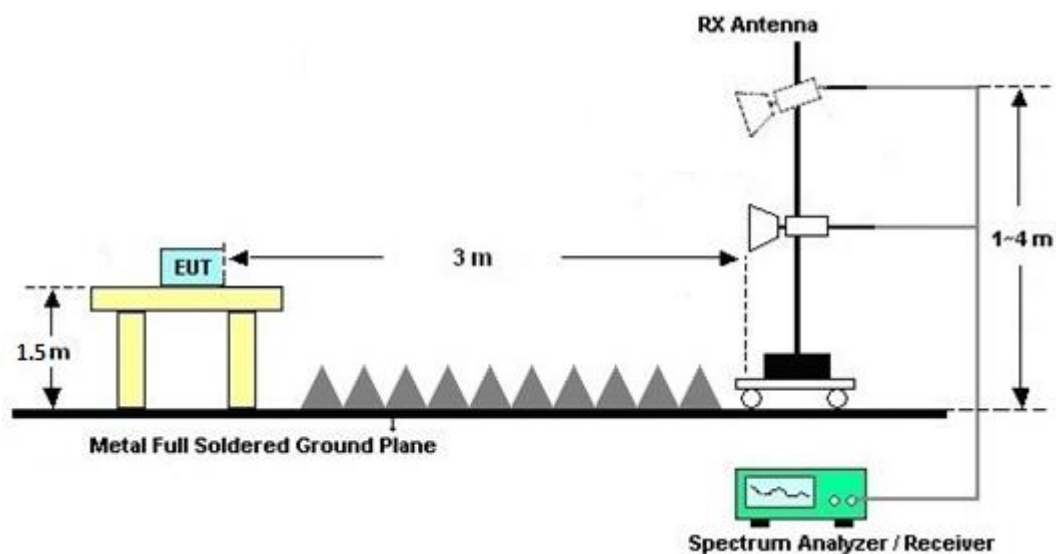
For radiated emissions below 30MHz



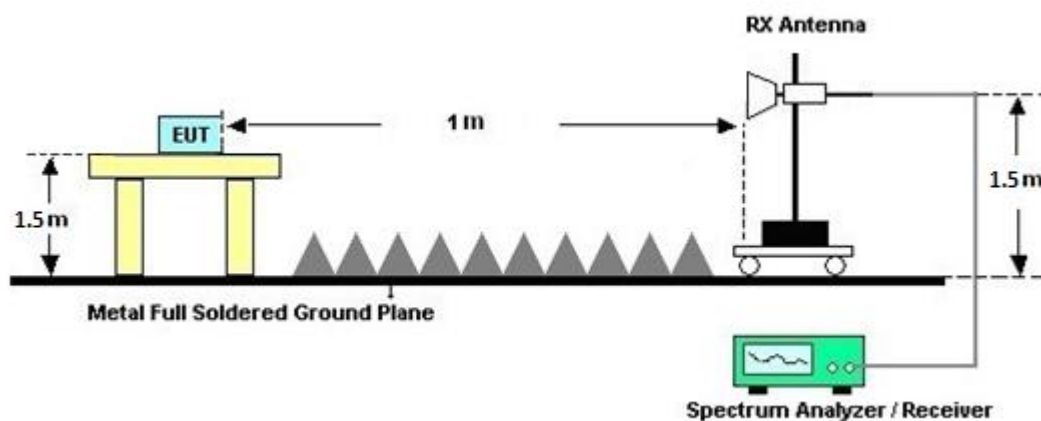
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.3.5 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.

3.3.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.3.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 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.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



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	100315	9 kHz~30 MHz	Mar. 16, 2026	May 19, 2026~ May 21, 2026	Mar. 15, 2027	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	May 19, 2026~ May 21, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Aug. 07, 2025	May 19, 2026~ May 21, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	May 19, 2026~ May 21, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	May 19, 2026~ May 21, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	May 19, 2026~ May 21, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	May 19, 2026~ May 21, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 09, 2025	May 19, 2026~ May 21, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	May 19, 2026~ May 21, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/ 2,803954/2	30MHz~40GHz	Aug. 11, 2025	May 19, 2026~ May 21, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM-KM-1000	240906	30MHz~40GHz	Oct. 21, 2025	May 19, 2026~ May 21, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	May 19, 2026~ May 21, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 19, 2026~ May 21, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 19, 2026~ May 21, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 19, 2026~ May 21, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	May 19, 2026~ May 21, 2026	N/A	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	May 18, 2026	Nov. 03, 2026	Conducted (TH05-HY)
USB Power Sensor	DARE	RPR3008W	RPR8W-23010013 (NO:100)	10MHz~8GHz	Jul. 18, 2025	May 18, 2026	Jul. 17, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	May 18, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	May 18, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_v ersion_240513	N/A	Conducted Other Test Item	N/A	May 18, 2026	N/A	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	111391	100kHz~7.5GHz	Dec. 31, 2025	May 25, 2026~Jun. 15, 2026	Dec. 30, 2026	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101549	10Hz~13.6GHz	Dec. 18, 2025	May 25, 2026~Jun. 15, 2026	Dec. 17, 2026	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divider Rated to 20W	STI08-0010(#4)	2GHz-8GHz	Jul. 15, 2025	May 25, 2026~Jun. 15, 2026	Jul. 14, 2026	CBP (DF02-HY)
Power Divider	MVE	MVE8546	A300458	2Way 0.5-6GHz	Jul. 15, 2025	May 25, 2026~Jun. 15, 2026	Jul. 14, 2026	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A1	0.5GHz-18GHz	Jul. 15, 2025	May 25, 2026~Jun. 15, 2026	Jul. 14, 2026	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A1	0.5-18GHz	Jul. 15, 2025	May 25, 2026~Jun. 15, 2026	Jul. 14, 2026	CBP (DF02-HY)
RF Cable	E-Instument	SS405	SS405-150cm-#11	0.5-18GHz	Jul. 15, 2025	May 25, 2026~Jun. 15, 2026	Jul. 14, 2026	CBP (DF02-HY)
RF Cable	E-Instument	SS405	SS405-150cm-#15	0.5-18GHz	Aug. 13, 2025	May 25, 2026~Jun. 15, 2026	Aug. 12, 2026	CBP (DF02-HY)
Software 1	Sporton	Adaptivity Test Tools	N/A	Ver 1.9.6	NCR	May 25, 2026~Jun. 15, 2026	NCR	CBP (DF02-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	YEN WU	Temperature:	21~25	°C
Test Date:	2026/5/18	Relative Humidity:	51~54	%

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 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
EHT20		2	233	7115	Full	-3.30	-2.30	0.24	-0.45		-0.21	14.00	Pass

Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng and Ray Lung	Temperature :	18~26°C
		Relative Humidity :	50~70%

Note symbol

-L	Low channel location
-R	High channel location

B1. Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-5	5.925-6.425	6+7	802.11be EHT320	63	6265	MCS0	Full RU	-
Mode 2	U-NII-8	6.875-7.125	6+7	802.11be EHT20	233	7115	MCS0	Full RU	-

B2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	802.11be EHT320	63	5913.88	62.71	68.20	-5.49	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT320	63	12530.00	43.82	54.00	-10.18	H	Avg.	Pass	Full RU	Harmonic
2	802.11be EHT20	233	7125.01	61.47	68.20	-6.73	V	Avg.	Pass	Full RU	Band Edge
	802.11be EHT20	233	14230.00	53.96	88.20	-34.24	V	Peak	Pass	Full RU	Harmonic



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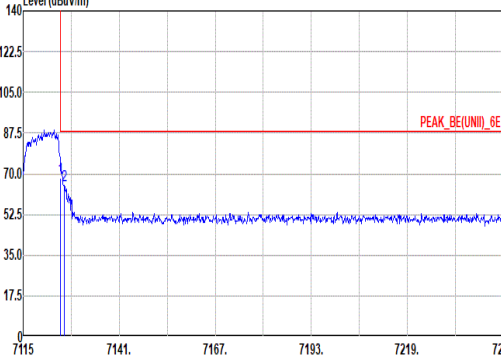
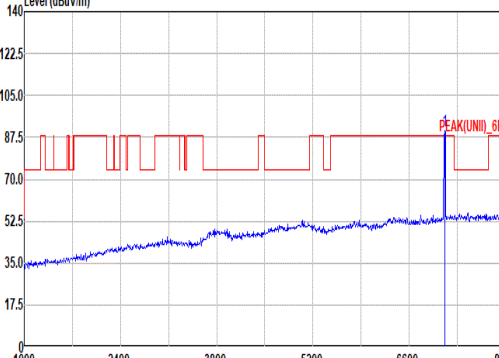
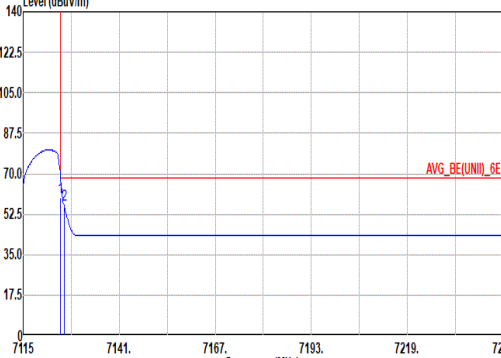
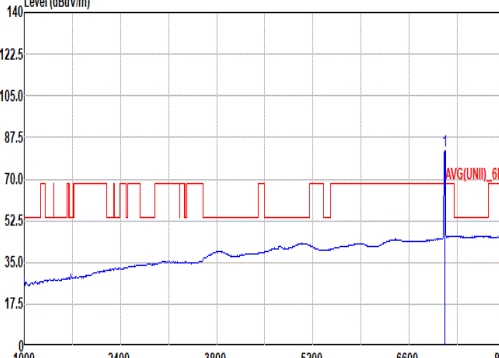


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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																						
1	14230.00	53.96	88.20	-34.24	33.75	41.00	21.43	44.06	1.84	--	Peak																																																																																																					
2	21345.00	39.50	74.00	-34.50	45.66	30.10	26.50	61.22	-9.54	--	Peak																																																																																																					



Appendix C. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
6+7	6GHz 802.11be EHT20 Full RU	99.60	-	-	10Hz
6+7	6GHz 802.11be EHT320 Full RU	99.64	-	-	10Hz

