

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



EUT Description Wireless module installed in Security Appliance
Applicant: Compex Systems Pte Ltd
178 Paya Lebar Road #05-05 Singapore, 409030
Manufacturer: Compex Systems Pte Ltd
178 Paya Lebar Road #05-05 Singapore, 409030
Brand Name: COMPEX
Model No./ISED HVIN: WLE7002E26
ISED PMN: WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module
Report Number: TERF2509003038E2
FCC ID TK4WL7002E26
IC: 7849A-WL7002E26
Date of EUT Received: April 28, 2025
Date of Test: June 20, 2025 ~ September 10, 2025
Issue Date: October 30, 2025

Approved By

Arno Hsieh

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in KDB 987594 D02 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISSED RSS-248.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2509003038E2	00	Original	September 22, 2025	Yuri Tsai	
TERF2509003038E2	01	Update page1 typo	October 30, 2025	Yuri Tsai	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Wireless module installed in Security Appliance
Brand Name:	COMPEX
Model No.:	WLE7002E26
Hardware Version:	V1.0
Firmware Version:	fw1_vx_dep_R82
EUT Series No.:	WA25300036
Power Supply:	12 Vdc
Test Software (Name/Version)	Tera Term Version 4.61
Platform	Product Name: Security Appliance  CHECK POINT™ Brand Name: Model No.: T91W

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1.2 Modulation & Data Rate

Number of channels	802.11 ax/be(20MHz) : 59
	802.11 ax/be(40MHz) : 29
	802.11 ax/be(80MHz) : 20
	802.11ax/be(160MHz) : 7
	802.11ax/be(320MHz) : 6
Frequency Range	U-NII-5 : 5925MHz to 6425MHz
	U-NII-6 : 6425MHz to 6525MHz
	U-NII-7 : 6525MHz to 6875MHz
	U-NII-8 : 6875MHz to 7125MHz
Modulation type:	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11ax_HE20: up to 286.8 Mbps
	802.11ax_HE40: up to 573.6 Mbps
	802.11ax_HE80: up to 1201 Mbps
	802.11ax_HE160: up to 2402 Mbps
	802.11be_EHT20: up to 344.1 Mbps
	802.11be_EHT40: up to 688.2 Mbps
	802.11be_EHT80: up to 1441.2 Mbps
	802.11be_EHT160: up to 2882.4 Mbps
	802.11be_EHT320: up to 5764.8 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	INPAQ	CKP-32505-012500-100-HF RFDPA161504IMLB902	5925~7125	4.53
		CKP-32505-012600-100-HF RFDPA161517IMLB902	5925~7125	4.53

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the Lowest gain as the worst case scenarios.
2. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

1.4 Operating Frequencies

Channels are provided for 802.11ax(HE20) 、802.11be(EHT20)								
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-5	1	5955	5	5975	9	5995	13	6015
	17	6035	21	6055	25	6075	29	6095
	33	6115	37	6135	41	6155	45	6175
	49	6195	53	6215	57	6235	61	6255
	65	6275	69	6295	73	6315	77	6335
	81	6355	85	6375	89	6395	93	6415
U-NII-6	97	6435	101	6455	105	6475	109	6495
	113	6515						
U-NII-7	117	6535	121	6555	125	6575	129	6595
	133	6615	137	6635	141	6655	145	6675
	149	6695	153	6715	157	6735	161	6755
	165	6775	169	6795	173	6815	177	6835
	181	6855						
U-NII-8	185	6875	189	6895	193	6915	197	6935
	201	6955	205	6975	209	6995	213	7015
	217	7035	221	7055	225	7075	229	7095
	233	7115						

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Channels are provided for 802.11ax(HE40) 、802.11be(EHT40)

Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-5	3	5965	11	6005	19	6045	27	6085
	35	6125	43	6165	51	6205	59	6245
	67	6285	75	6325	83	6365	91	6405
U-NII-6	99	6445	107	6485	*115	6525		
U-NII-7	123	6565	131	6605	139	6645	147	6685
	155	6725	163	6765	171	6805	179	6845
U-NII-8	*187	6885	195	6925	203	6965	211	7005
	219	7045	227	7085				

Channels are provided for 802.11ax(HE80) 、802.11be(EHT80)

Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-5	7	5985	23	6065	39	6145
	55	6225	71	6305	87	6385
U-NII-6	103	6465				
U-NII-7	*119	6545	135	6625	151	6705
	167	6785	*183	6865		
U-NII-8	199	6945	215	7025		

Channels are provided for 802.11ax(HE160) 、802.11be(EHT160)

Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-5	15	6025	47	6185	79	6345
U-NII-6	*111	6505				
U-NII-7	143	6665	*175	6825		
U-NII-8	207	6985				

Channels are provided for 802.11ax(HE320) 、802.11be(EHT320)

Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII-5	31	6105	63	6265	*95	6425
U-NII-6	127	6585	159	6745		
U-NII-7	127	6585	159	6745		
U-NII-8	*191	6905				

Note: Channels marked with “ * ” are cross-band channels.

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2 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.407(d)(6)	RSS-248 §4.7	contention-based protocol	Compliant

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

RSS-248, issue 3 October 11, 2024

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01

2.2 Measurement Uncertainty

Test Items	Uncertainty
Generated signal levels, conducted	+/- 0.97 dB
Generated signal levels, radiated	+/- 2.16 dB
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.				

Temperature:	23.5~24.8	°C	Relative Humidity:	56~58	%
Test site	Conducted B		Test Start:	06/20/2025	
Test Engineer:	Ari		Test Done:	09/10/2025	

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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

The user mode provided by the user was employed to configure the EUT for transmission, including test channel selection and modulation scheme setup via engineering test mode (software/firmware).

Companion device: A notebook (HP/HSN-Q35C-4) equipped with a Wi-Fi 7 network interface card (MT7927).

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4 MEASUREMENT EQUIPMENT USED

4.1 Contention based protocol measurement

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	KEYSIGHT	11716C	RF45	11/14/2024	11/13/2025
Frequency Extender	Keysight	N5182BX07	MY59360223	02/27/2025	02/26/2026
Signal Generator	KEYSIGHT	N5182B	MY59100873	02/27/2025	02/26/2026
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/06/2025	01/05/2026
Splitter	Marvelous	MVE8576	RF58	11/14/2024	11/13/2025
Splitter	Marvelous	MVE8576	RF59	11/14/2024	11/13/2025
Splitter	RF-LAMBDA	RFLT2W1G18G	RF51	11/14/2024	11/13/2025
Splitter	Woken	DOM35LW1A2	RF57	11/14/2024	11/13/2025
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Notebook	Lenovo	T14	P0002721	N/A	N/A
Notebook	Lenovo	T14	P0002852	N/A	N/A
Notebook	HP	HSN-Q35C-4	P0003870	N/A	N/A

NOTE: N.C.R refers to Not Calibrated Required.

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5 CONTENTION BASED PROTOCOL

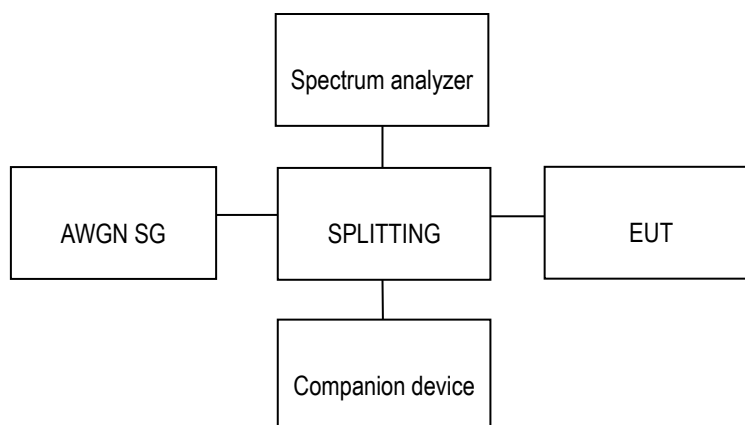
5.1 Regulatory Requirements

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

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

5.2 Test Configuration



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

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of the EUT. Connect the output port of the EUT to the signal analyzer, Ensure that the attenuator provides enough attenuation to not overload the signal analyzer receiver.

4. Using an AWGN signal source 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.
5. Set the AWGN signal power to an extremely low level (more than 20 dB below -62 dBm threshold). Connect the AWGN signal source, via splitter, to the signal analyzer and the EUT
6. Monitor the signal analyzer 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
7. (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.
8. 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 4, choose a different center frequency for the AWGN signal and repeat the process(as figure1)

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

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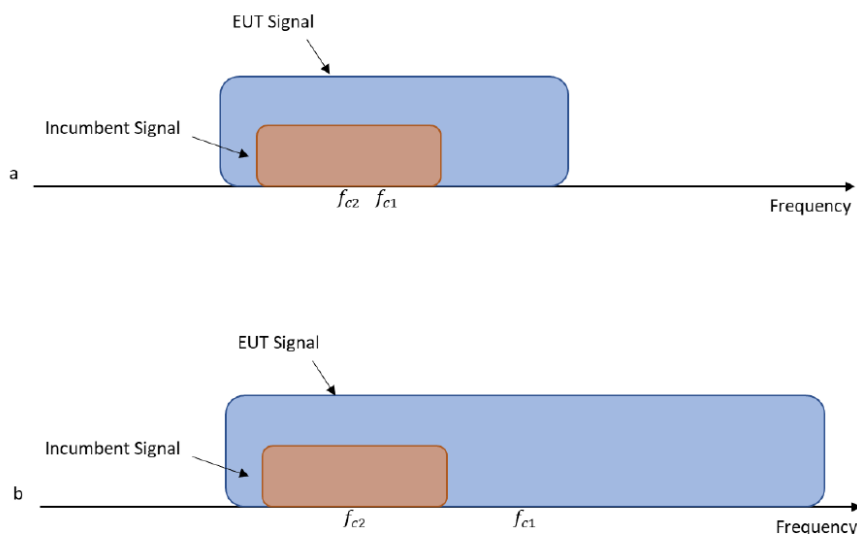


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

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6 TEST RESULTS

6.1.1 CBP Detection

Contention Based Protocol																	
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Adjusted Power (dBm)	Detection Trials (1=Detection, 0= No Detection)										Detection Probability (%)	Limit (%)	Result Pass/Fail
					1	2	3	4	5	6	7	8	9	10			
802.11be EHT20	5	6135	6135	-66.61	1	1	1	1	0	1	1	1	1	1	90	90	Pass
802.11be EHT20	6	6455	6455	-62.61	1	1	1	1	1	1	1	1	1	1	100	90	Pass
802.11be EHT20	7	6695	6695	-68.71	1	1	1	1	1	1	1	1	1	1	100	90	Pass
802.11be EHT20	8	7015	7015	-68.58	1	1	1	1	1	1	1	1	1	1	100	90	Pass
802.11be EHT320	5	6265	6110	-62.69	1	1	1	1	0	1	1	1	1	1	90	90	Pass
			6265	-65.64	1	1	1	1	1	1	1	1	1	1	100	90	Pass
			6420	-65.79	1	1	1	1	1	1	1	1	1	1	100	90	Pass
802.11be EHT320	8	6905	6750	-62.71	1	1	1	1	1	1	1	1	1	1	100	90	Pass
			6905	-65.62	1	1	1	1	1	1	1	1	1	1	100	90	Pass
			7060	-65.70	1	1	1	1	1	1	1	1	1	1	100	90	Pass

Note : Adjusted Power: Injected AWGN+ min gain

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6.1.2 CBP_Threshold_Level

Contention Based Protocol Threshold Level Verify							
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11be EHT20	5	6135	6135	-71.14	-66.61	-62	OFF
			6135	-75.14	-70.61	-62	Minimal
			6135	-76.14	-71.61	-62	ON
802.11be EHT320	5	6265	6110	-67.22	-62.69	-62	OFF
			6110	-70.22	-65.69	-62	Minimal
			6110	-73.22	-68.69	-62	ON
			6265	-70.17	-65.64	-62	OFF
			6265	-73.17	-68.64	-62	Minimal
			6265	-76.17	-71.64	-62	ON
			6420	-70.32	-65.79	-62	OFF
			6420	-73.32	-68.79	-62	Minimal
			6420	-76.32	-71.79	-62	ON
Contention Based Protocol Threshold Level Verify							
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11be EHT20	6	6455	6455	-67.14	-62.61	-62	OFF
			6455	-73.14	-68.61	-62	Minimal
			6455	-76.14	-71.61	-62	ON

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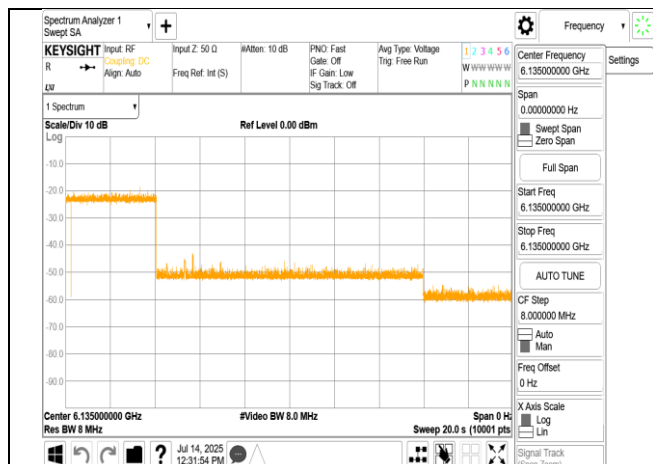
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Contention Based Protocol Threshold Level Verify							
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11be EHT20	7	6695	6695	-73.24	-68.71	-62	OFF
			6695	-76.24	-71.71	-62	Minimal
			6695	-79.24	-74.71	-62	ON
Contention Based Protocol Threshold Level Verify							
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected AWGN (dBm)	Adjusted Power (dBm)	Detection Limit (dBm)	EUT Tx Status
802.11be EHT20	8	7015	7015	-73.11	-68.58	-62	OFF
			7015	-76.11	-71.58	-62	Minimal
			7015	-79.11	-74.58	-62	ON
802.11be EHT320	8	6905	6750	-67.24	-62.71	-62	OFF
			6750	-70.24	-65.71	-62	Minimal
			6750	-73.24	-68.71	-62	ON
			6905	-70.15	-65.62	-62	OFF
			6905	-73.15	-68.62	-62	Minimal
			6905	-76.15	-71.62	-62	ON
			7060	-70.23	-65.70	-62	OFF
			7060	-71.23	-66.70	-62	Minimal
			7060	-73.23	-68.70	-62	ON

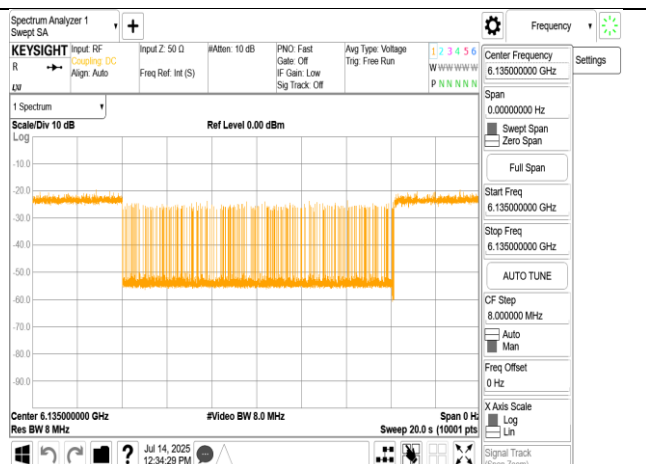
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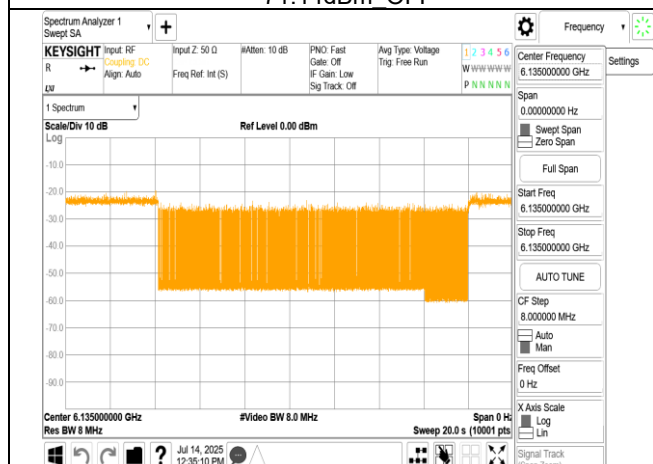
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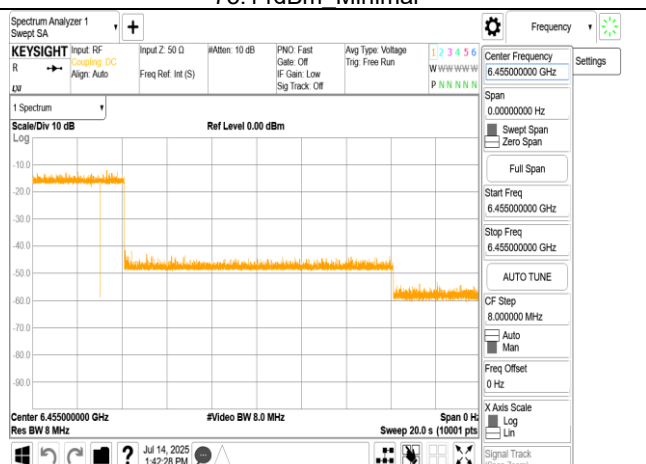
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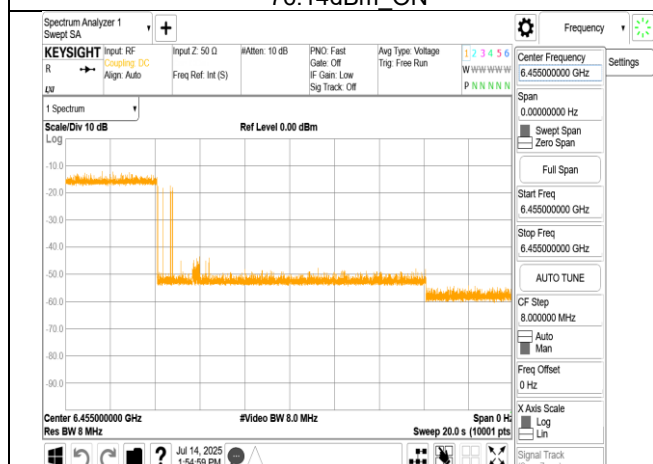
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802.11be_20MHz_6135MHz_Interference_6135MHz_ - 76.14dBm ON



802.11be_20MHz_6455MHz_Interference_6455MHz_ - 67.14dBm OFF



802.11be_20MHz_6455MHz_Interference_6455MHz_ - 73.14dBm Minimal

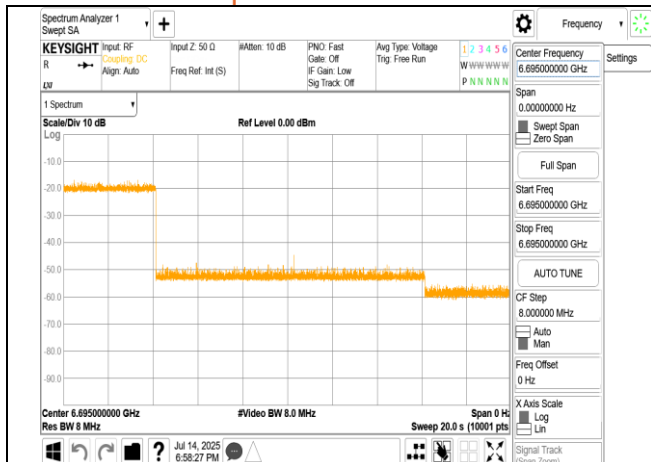


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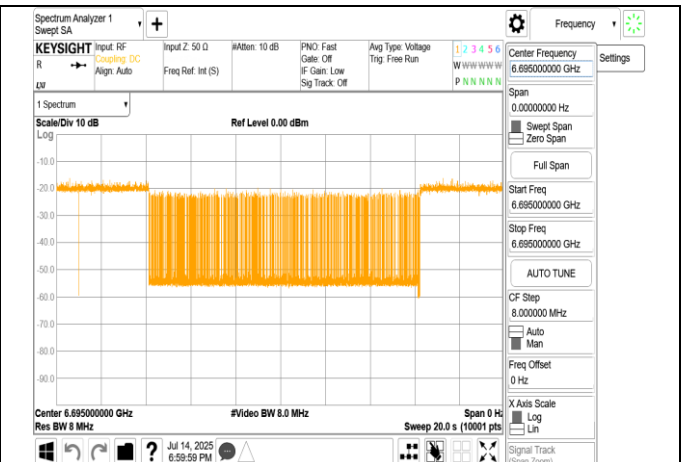
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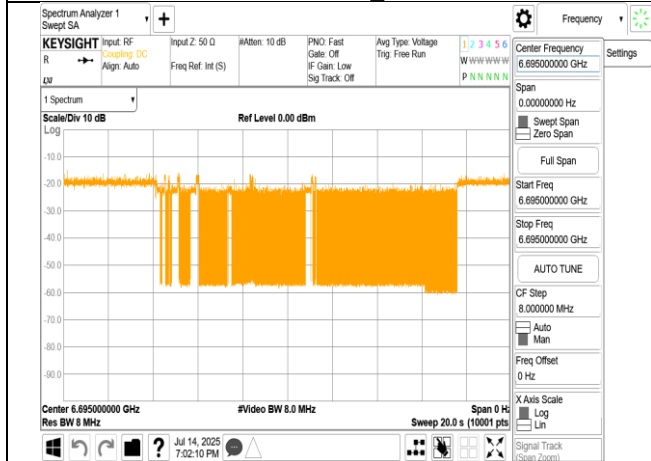
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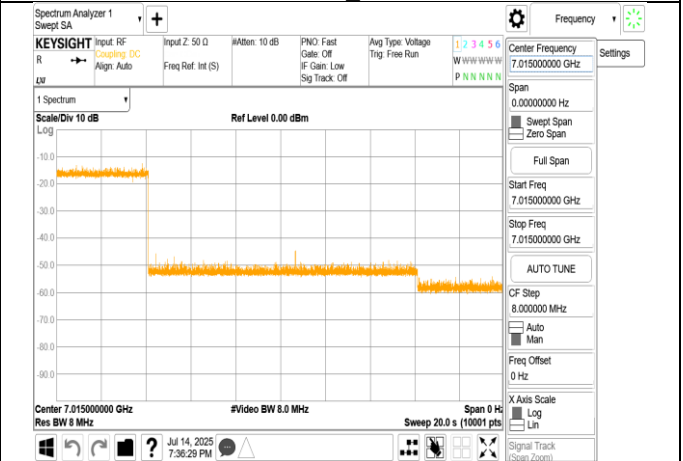
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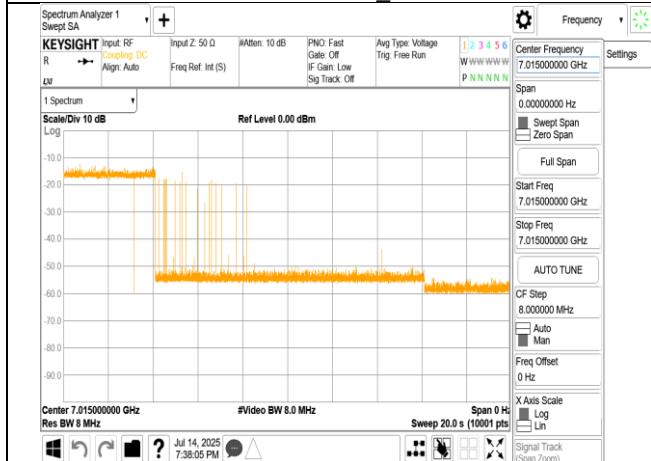
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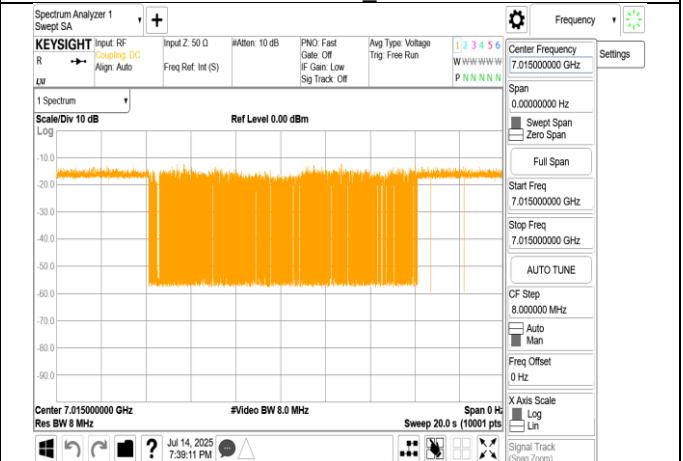
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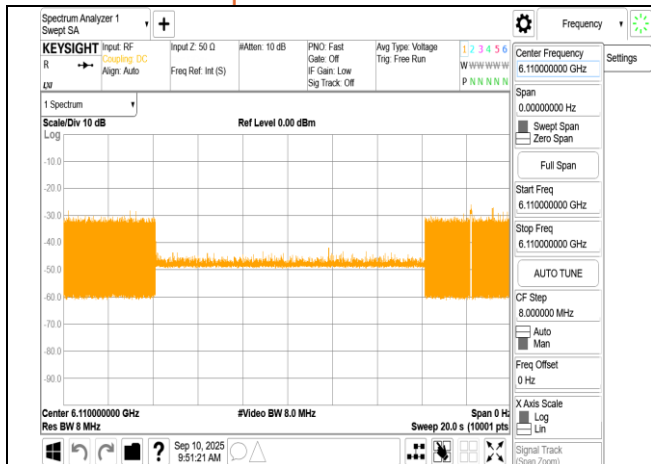


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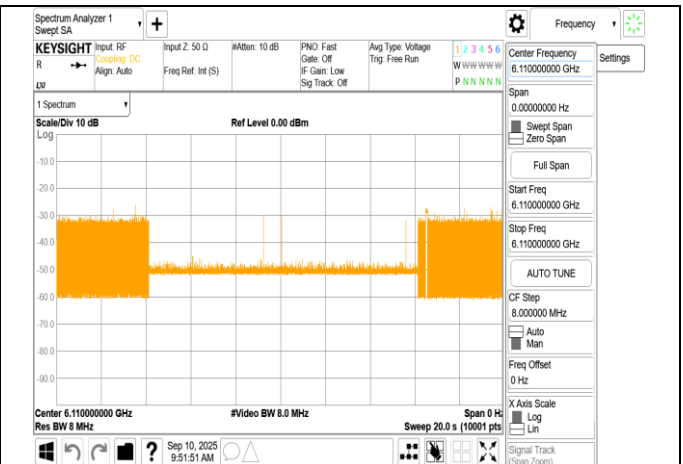
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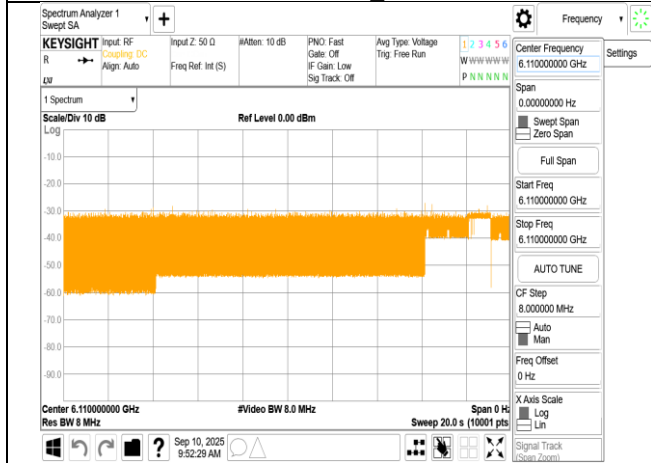
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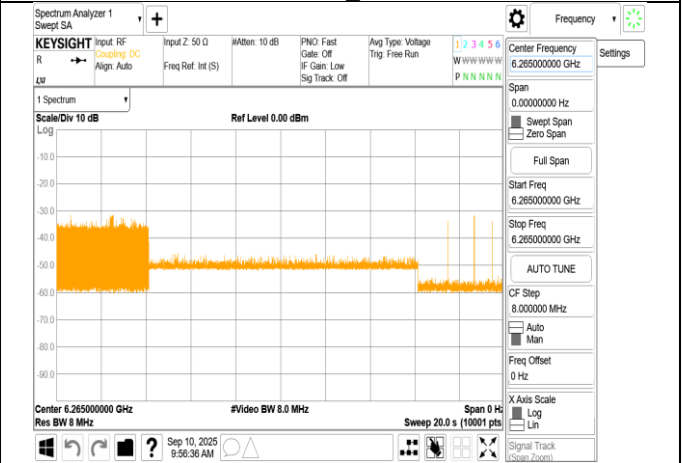
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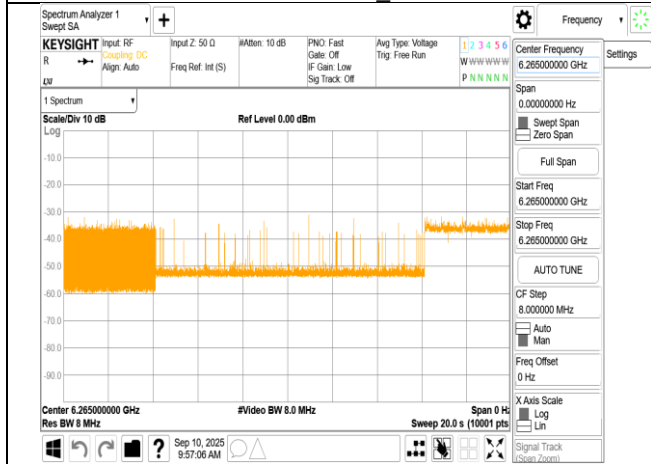
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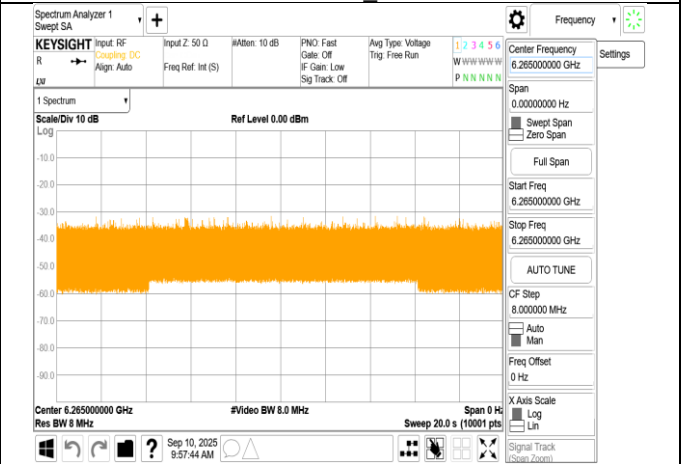
802.11be_320MHz_6265MHz_Interference_6110MHz_-
73.22dBm_ON



802.11be_320MHz_6265MHz_Interference_6265MHz_-
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802.11be_320MHz_6265MHz_Interference_6265MHz_-
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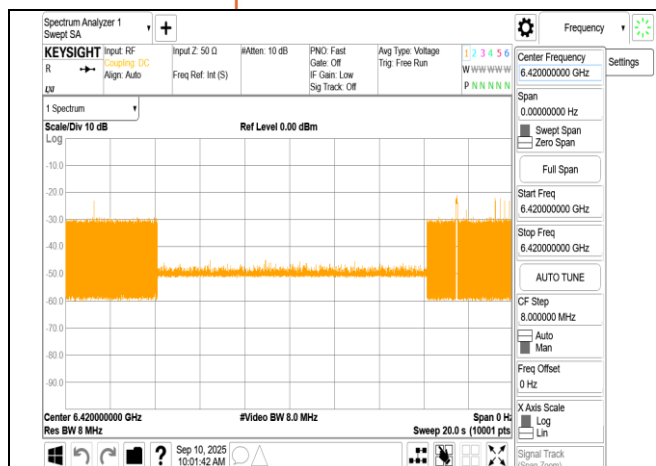


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76.17dBm_ON

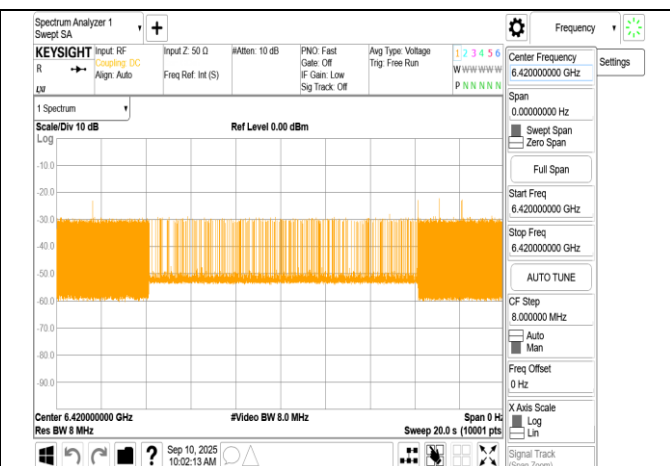
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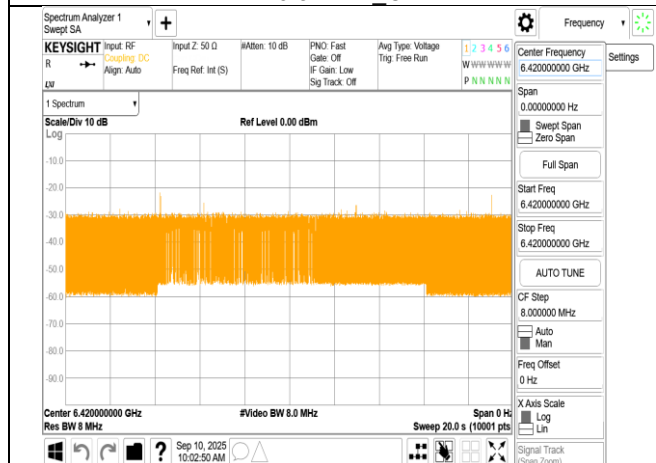
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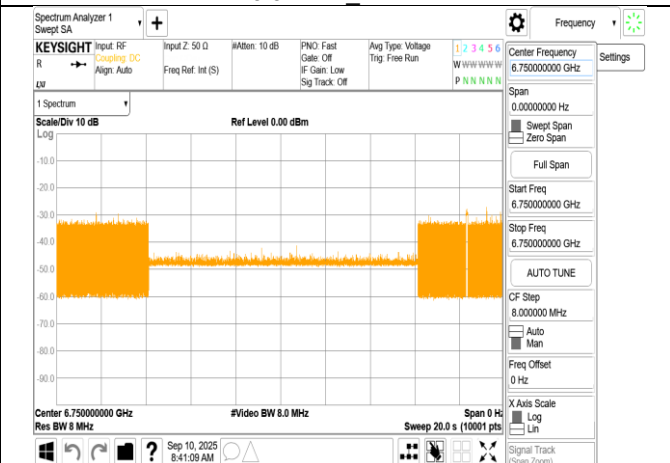
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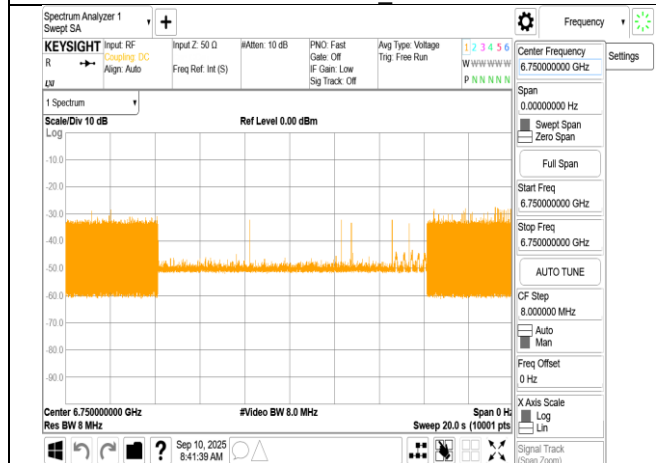
802.11be_320MHz_6265MHz_Interference_6420MHz_-
73.32dBm_Minimal



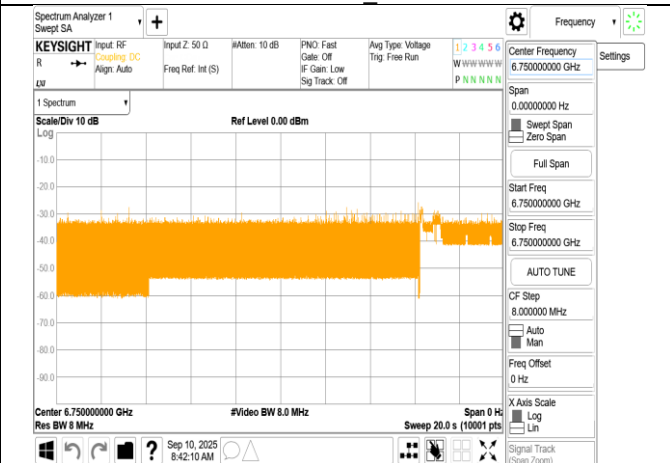
802.11be_320MHz_6265MHz_Interference_6420MHz_-
76.32dBm_ON



802.11be_320MHz_6905MHz_Interference_6750MHz_-
67.24dBm_OFF



802.11be_320MHz_6905MHz_Interference_6750MHz_-
70.24dBm_Minimal

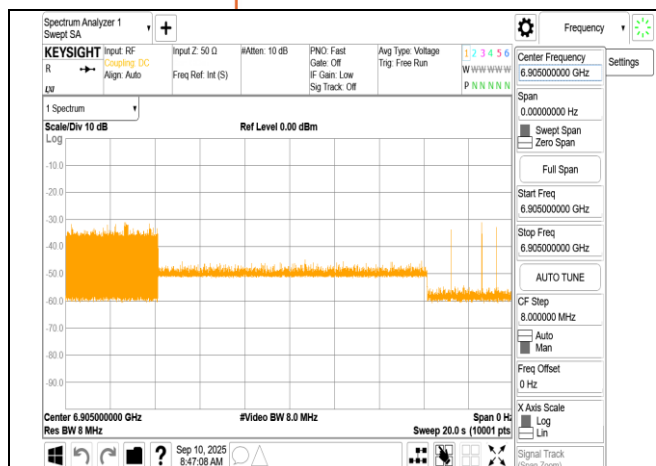


802.11be_320MHz_6905MHz_Interference_6750MHz_-
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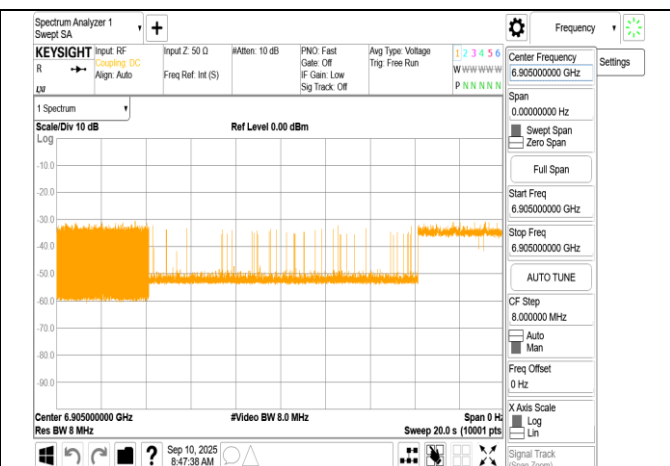
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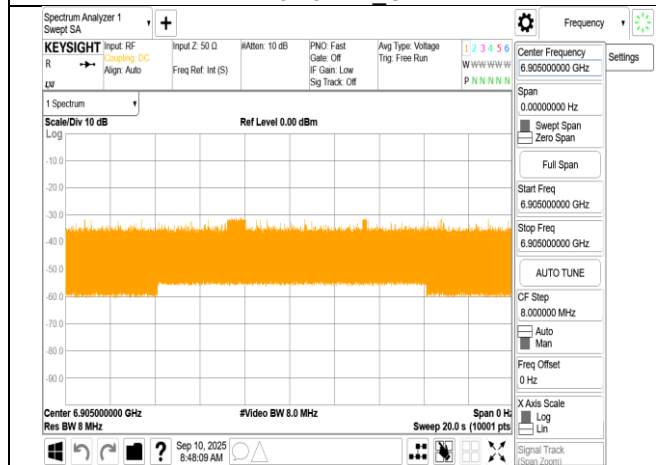
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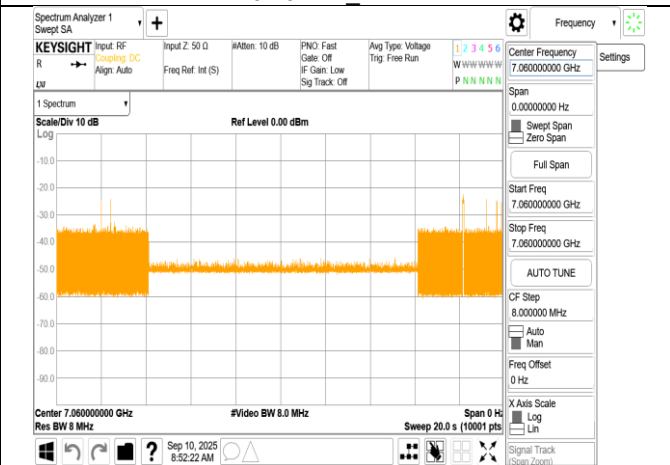
802.11be_320MHz_6905MHz_Interference_6905MHz_-
70.15dBm_OFF



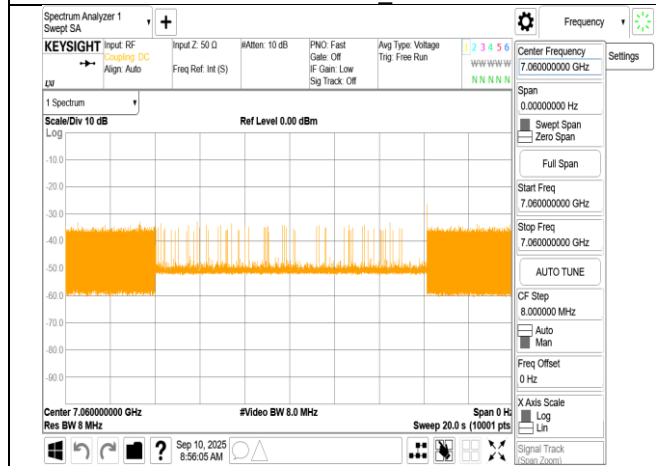
802.11be_320MHz_6905MHz_Interference_6905MHz_-
73.15dBm_Minimal



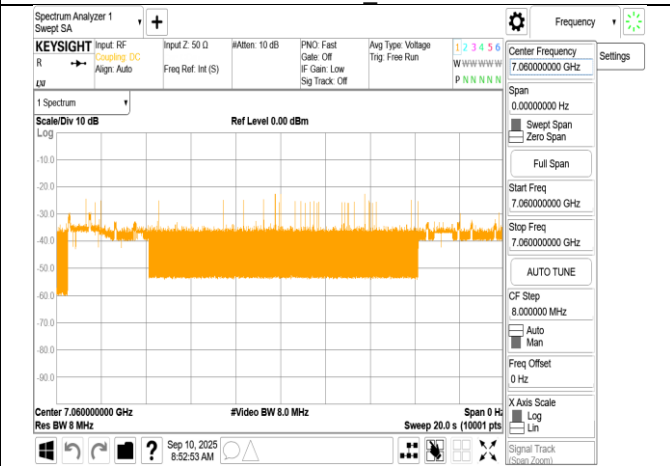
802.11be_320MHz_6905MHz_Interference_6905MHz_-
76.15dBm_ON



802.11be_320MHz_6905MHz_Interference_7060MHz_-
70.23dBm_OFF



802.11be_320MHz_6905MHz_Interference_7060MHz_-
71.23dBm_Minimal



802.11be_320MHz_6905MHz_Interference_7060MHz_-
73.23dBm_ON

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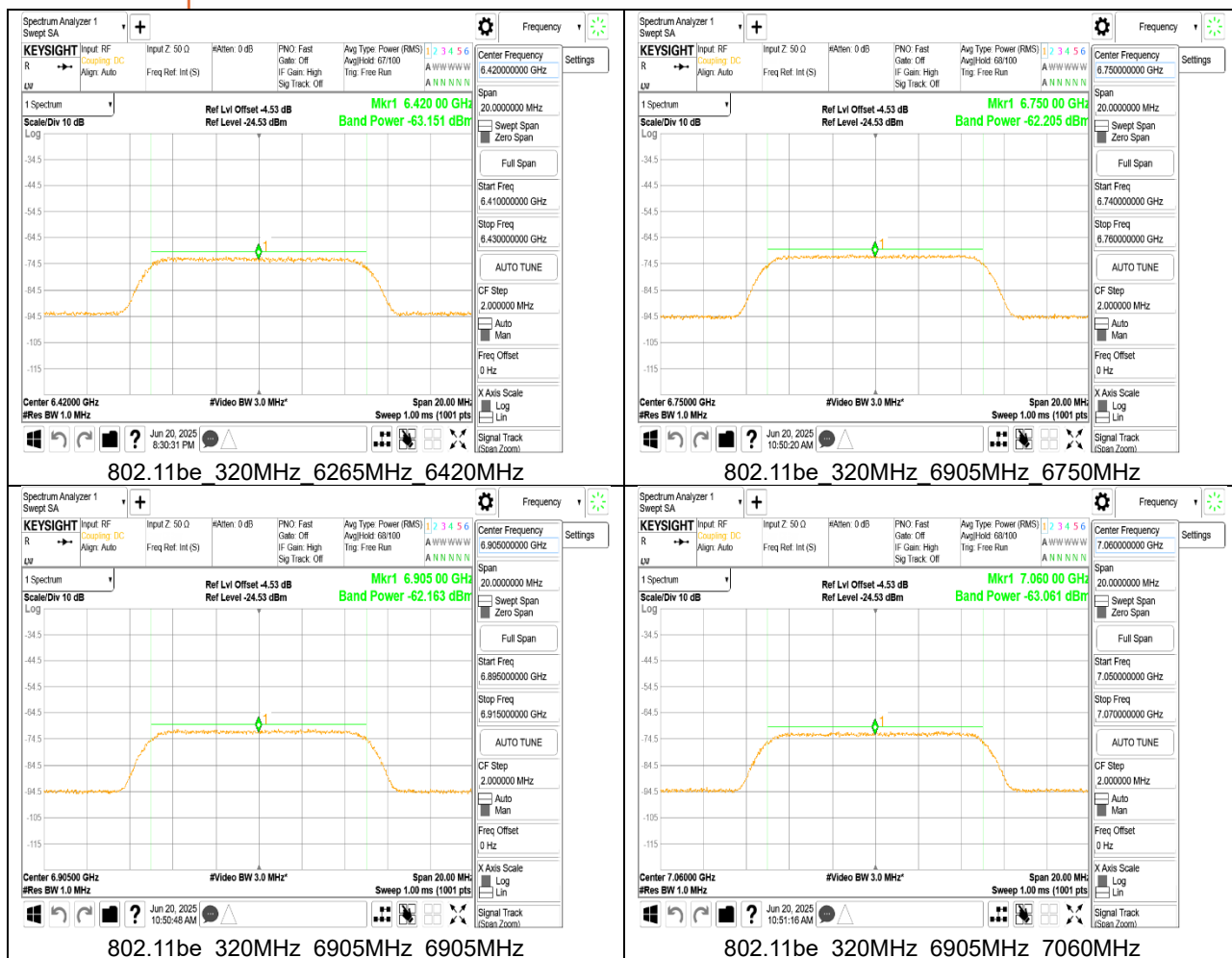
6.1.3 Incumbent_signal



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~ End of Report ~

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