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:	WLE7002E25
ISED PMN:	WiFi 7 (802.11be) 2x2 Dual Band Dual Concurrent Wireless Module
Report Number:	TERF2501000124E2
FCC ID	TK4WLE7002E25
IC:	7849A-WLE7002E25
Date of EUT Received:	December 27, 2024
Date of Test:	January 9, 2025 ～ April 8, 2025
Issue Date:	April 28, 2025

Approved By Arno Hsieh

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 ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

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
TERF2501000124E2	00	Original	April 28, 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./ISED HVIN:	WLE7002E25
Hardware Version:	V1.0
Firmware Version:	fw1_vx_dep_R82
EUT Series No.:	WA24C04795
Power Supply:	12 Vdc
Platform	Product Name: Security Appliance Brand Name: CHECK POINT™ Model No.: T90W

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1.2 FCC WLAN 5GHz:

Number of channels	802.11 n/ac/ax/be(20MHz) : 24
	802.11 n/ac/ax/be(40MHz) : 11
	802.11 ac/ax/be(80MHz) : 5
	802.11 ac/ax/be(160MHz) : 2
Frequency Range	802.11 n/ac/ax/be(20MHz) : 5180MHz~5240MHz
	802.11 n/ac/ax/be(40MHz) : 5190MHz~5230MHz
	802.11 ac/ax/be(80MHz) : 5210MHz
	802.11 n/ac/ax/be(20MHz) : 5260MHz~5320MHz
	802.11 n/ac/ax/be(40MHz) : 5270MHz~5310MHz
	802.11 ac/ax/be(80MHz) : 5290MHz
	802.11 ac/ax/be(160MHz) : 5250MHz
	802.11 n/ac/ax/be(20MHz) : 5500MHz~5700MHz
	802.11 n/ac/ax/be(40MHz) : 5510MHz~5670MHz
	802.11 ac/ax/be(80MHz) : 5530MHz~5610MHz
	802.11 ac/ax/be(160MHz) : 5570MHz
	802.11 n/ac/ax/be(20MHz) : 5745MHz~5825MHz
	802.11 n/ac/ax/be(40MHz) : 5755MHz~5805MHz
	802.11 ac/ax/be(80MHz) : 5775MHz
Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	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:	802.11n_HT20: up to 144.4 Mbps
	802.11n_HT40: up to 300 Mbps
	802.11ac_VHT20: up to 173.4 Mbps
	802.11ac_VHT40: up to 400 Mbps
	802.11ac_VHT80: up to 866.6 Mbps
	802.11ac_VHT160: up to 1733.4 Mbps
	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

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1.3 IC WLAN 5GHz:

Number of channels	802.11 n/ac/ax/be(20MHz) : 21
	802.11 n/ac/ax/be(40MHz) : 9
	802.11 ac/ax/be(80MHz) : 4
	802.11 ac/ax/be(160MHz) : 1
Frequency Range	802.11 n/ac/ax/be(20MHz) : 5180MHz~5240MHz
	802.11 n/ac/ax/be(40MHz) : 5190MHz~5230MHz
	802.11 ac/ax/be(80MHz) : 5210MHz
	802.11 n/ac/ax/be(20MHz) : 5260MHz~5320MHz
	802.11 n/ac/ax/be(40MHz) : 5270MHz~5310MHz
	802.11 ac/ax/be(80MHz) : 5290MHz
	802.11 ac/ax/be(160MHz) : 5250MHz
	802.11 n/ac/ax/be(20MHz) : 5500MHz~5580MHz,5660MHz~5700MHz
	802.11 n/ac/ax/be(40MHz) : 5510MHz~5550MHz,5670MHz
	802.11 ac/ax/be(80MHz) : 5530MHz
	802.11 n/ac/ax/be(20MHz) : 5745MHz~5825MHz
	802.11 n/ac/ax/be(40MHz) : 5755MHz~5805MHz
	802.11 ac/ax/be(80MHz) : 5775MHz
Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	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:	802.11n_HT20: up to 144.4 Mbps
	802.11n_HT40: up to 300 Mbps
	802.11ac_VHT20: up to 173.4 Mbps
	802.11ac_VHT40: up to 400 Mbps
	802.11ac_VHT80: up to 866.6 Mbps
	802.11ac_VHT160: up to 1733.4 Mbps
	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

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1.4 Antenna Designation

Antenna Type	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	5250~5350	3
	5475~5725	4.29

Note: Antenna information is provided by the applicant.

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
RSS-247 issue 3 Aug. 2023

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation 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	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	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SUMMARY OF TEST RESULT

FCC and ISED Rules	Description Of Test	Result
§15.407(h) FCC KDB 905462 D02 IC RSS-247 §6.3	TPC and DFS Measurement	Compliant

3 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
TPC and DFS Measurement	+/- 1.49 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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4 TPC AND DFS MEASUREMENT

4.1 TPC Requirements

According to Part 15.407 (h)(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Result:
N/A, e.i.r.p is less then 500 mW, TPC is not required.

4.2 DFS: Standard Applicable

According to §15.407(h)(2) and FCC KDB 905462 D02 , Radar Detection Function of Dynamic Frequency Selection (DFS).

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar

systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is −64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is −62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

(i) Operational Modes. The DFS requirement applies to the following operational modes:

(a) The requirement for channel availability check time applies in the master operational mode.

(b) The requirement for channel move time applies in both the master and slave operational modes.

(ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

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(iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

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5 APPLICABLE STANDARDS

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode	
	☒ Master	☐ Client (with radar detection)
Non-occupancy Period	Yes	Yes
DFS Detection Threshold	Yes	Yes
Channel Availability Check Time	Yes	Not required
U-NII Detection Bandwidth	Yes	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode
	Master Device or Client with Radar Detection
DFS Detection Threshold	Yes
Cannel Closing Transmission time	Yes
Channel Move time	Yes
U-NII Detection Bandwidth	Yes

Additional requirements for devices with multiple bandwidth mode	Master Device or Client with Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available
All other tests	Any single BW mode
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.	

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Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

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Table 5: Radar Test Waveforms

Short Pulse Radar

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Long Pulse Radar

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per *Burst*	Number of *Bursts*	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Frequency Hopping Radar

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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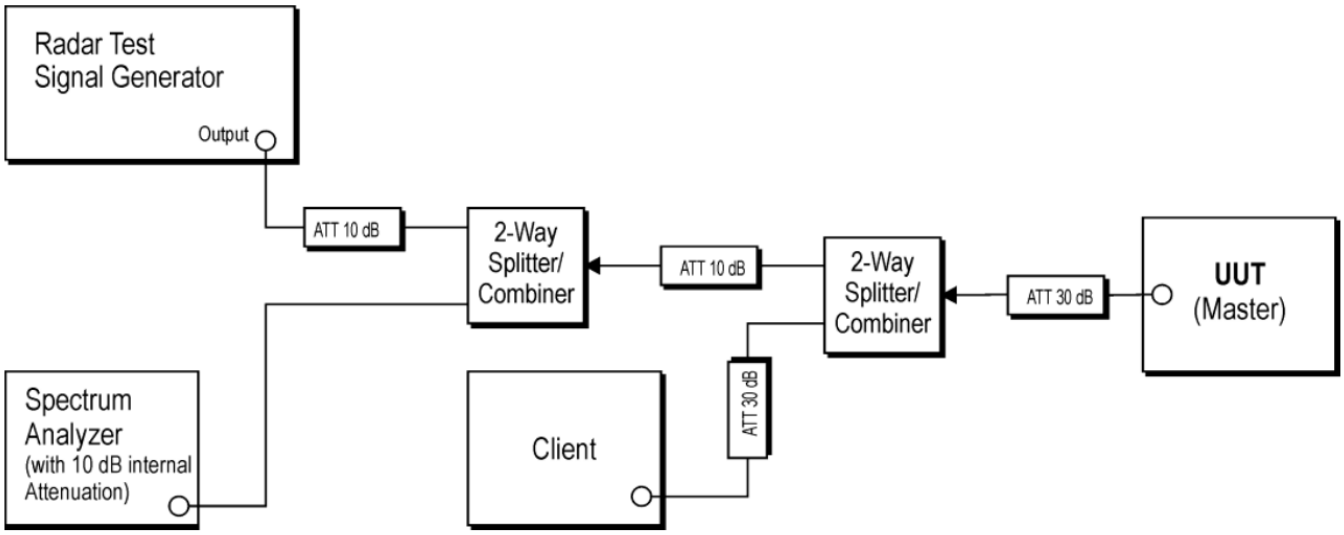
6 TEST SETUP

Setup for Master with injection at the Master



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7 TEST EQUIPMENT USED:

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	RF44	11/14/2024	11/13/2025
DC Block	Woken	WDCB-26 535	RF33	11/14/2024	11/13/2025
EMI Test Receiver	Anritsu	N9038A	MY52260216	11/20/2024	11/19/2025
Signal Generator	Keysight	N5182B	MY59101143	02/06/2025	02/05/2026
Splitter	Marvelous Micro-wave	MVE8586	RF49	11/14/2024	11/13/2025
Splitter	Marvelous Micro-wave	MVE8586	RF50	11/14/2024	11/13/2025
Splitter	Marvelous	MVE8576	RF59	11/14/2024	11/13/2025
Splitter	Woken	DOM35LW1A2	RF57	11/14/2024	11/13/2025
Test Software	SGS Taiwan	Dynamic Frequency Selection Test	Ver. 22.01.24	N.C.R	N.C.R

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8 DESCRIPTION OF EUT:

EUT is a Master device with radar detection and DFS capability.

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.

The rated output power of the master unit is ≧23dBm(EIRP).therefore the required interference threshold level is -64dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64dBm.

The rated output power of the master unit is <23 dBm(EIRP).therefore the required interference threshold level is -62dBm.after correction for antenna gain and procedural adjustments, the required threshold at the antenna port is -62dBm.

DFS Detection Threshold (dBm) = -64 + G (dBi), for conducted test.

DFS Detection Threshold (dBm)	Minimum of Peak Antenna Gain (dBi)	Threshold for test (dBm)
-64	3	-61

While calibrate the path on antenna port of DFS test equipment (master), measurements equipments (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

The EUT uses one transmitter/receiver chains and one receive only chain, each connected to an antenna to perform radiated tests.

The Slave device associated with the EUT during these tests does not have radar detection capability.

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9 RADAR TYPE WAVEFORM CALIBRATION AT DFS DETECTION THESHOLD

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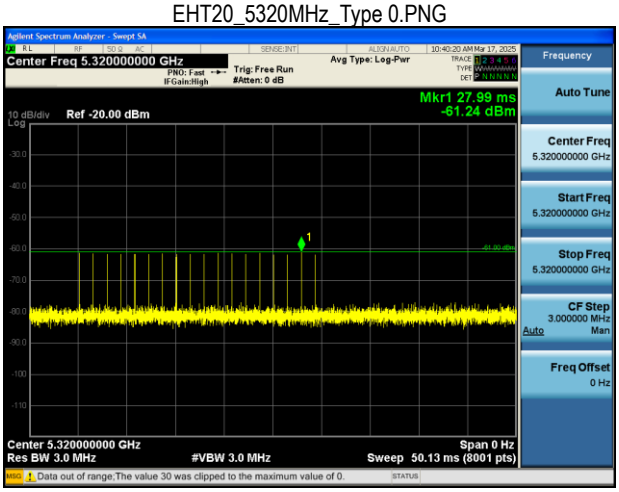

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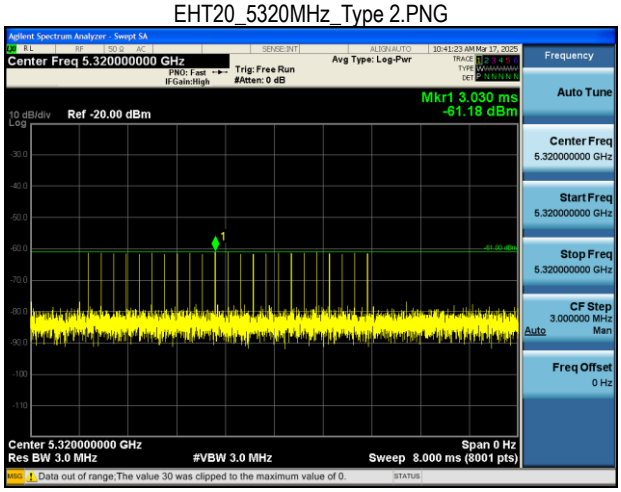

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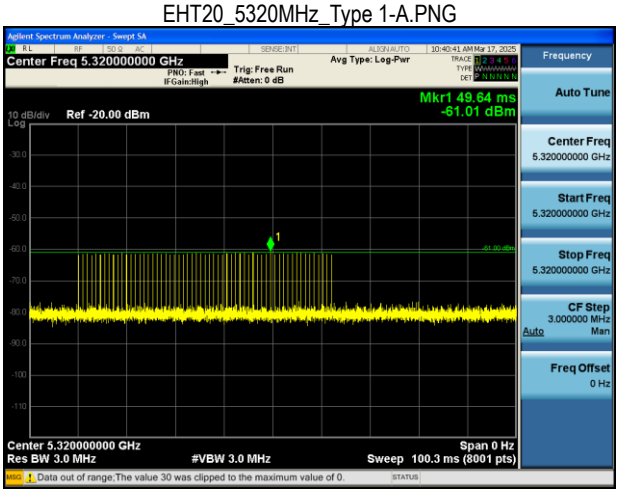

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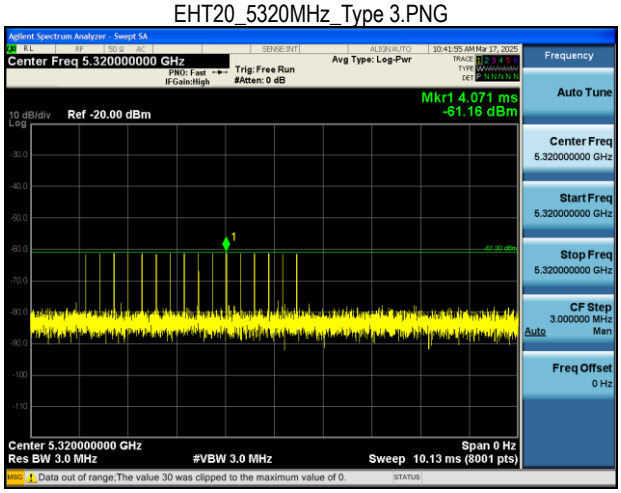

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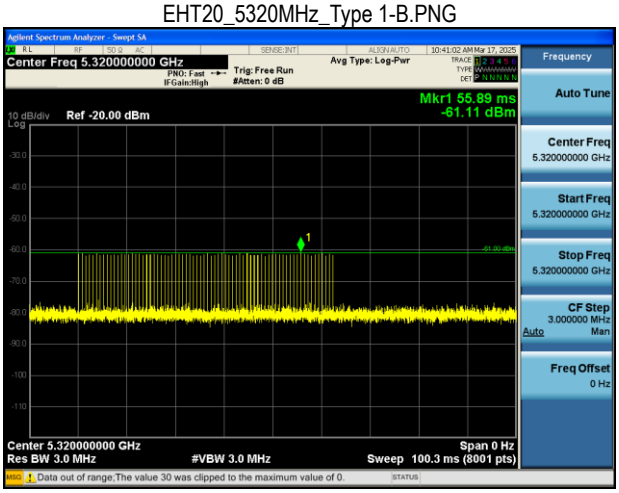

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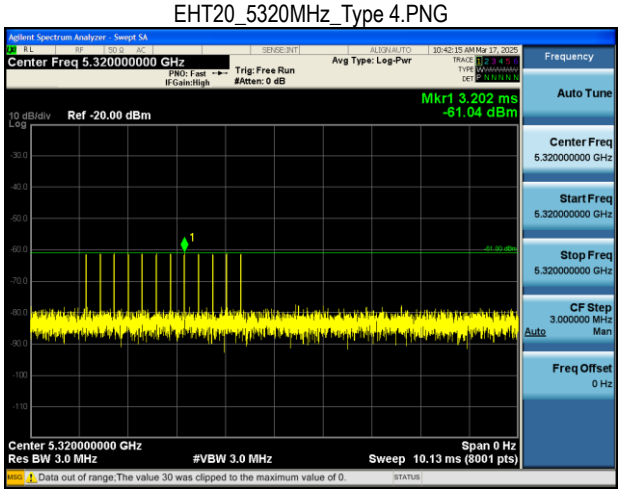

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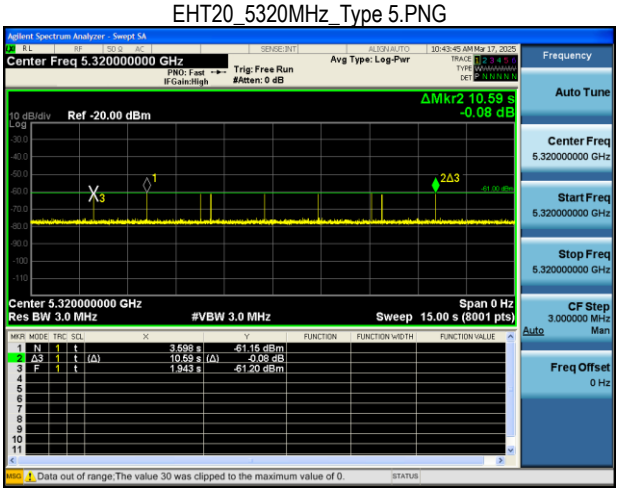

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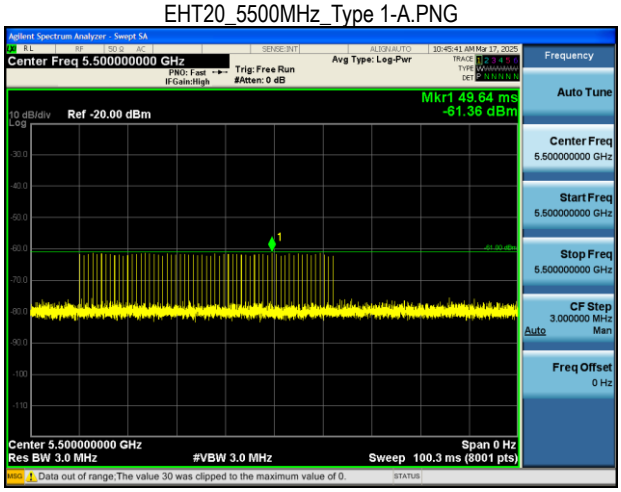

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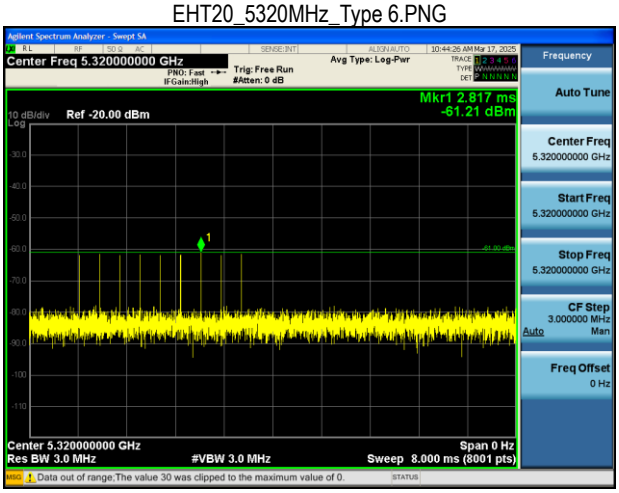

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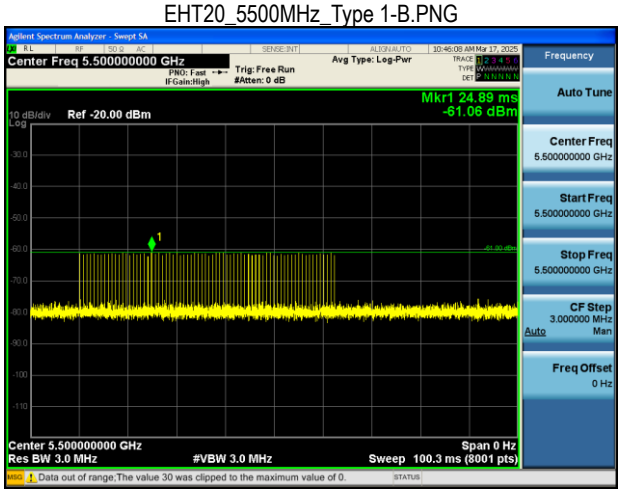

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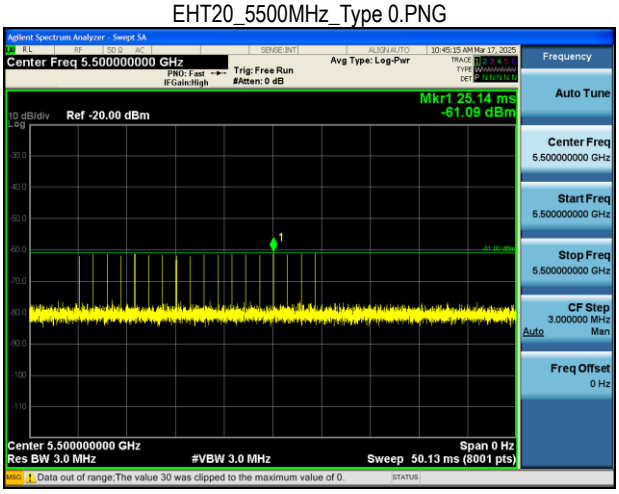

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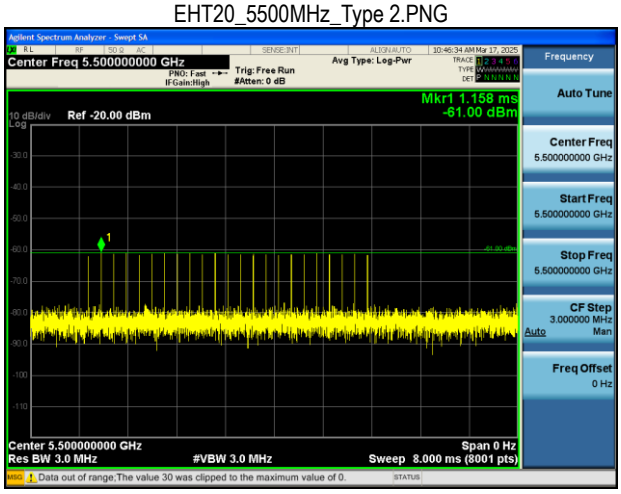

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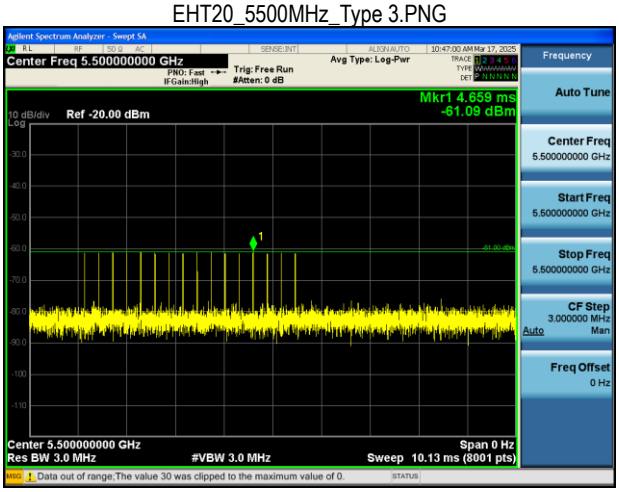

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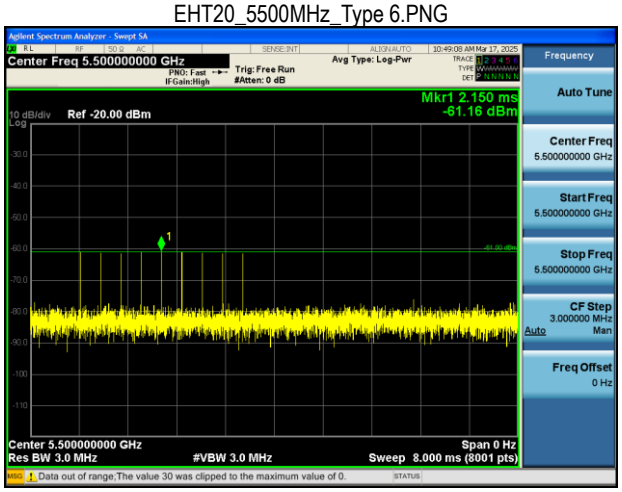

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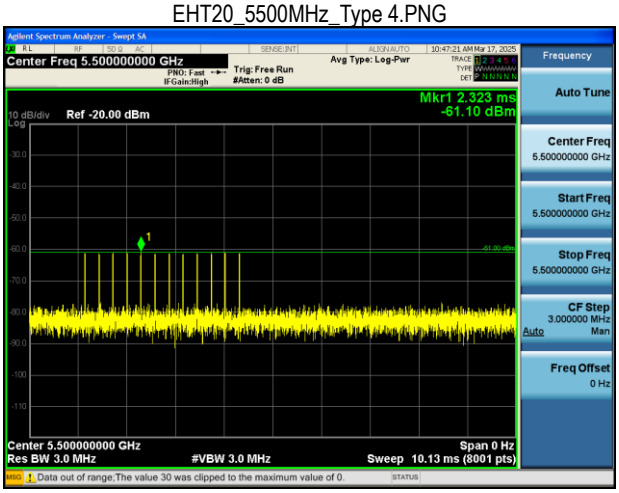

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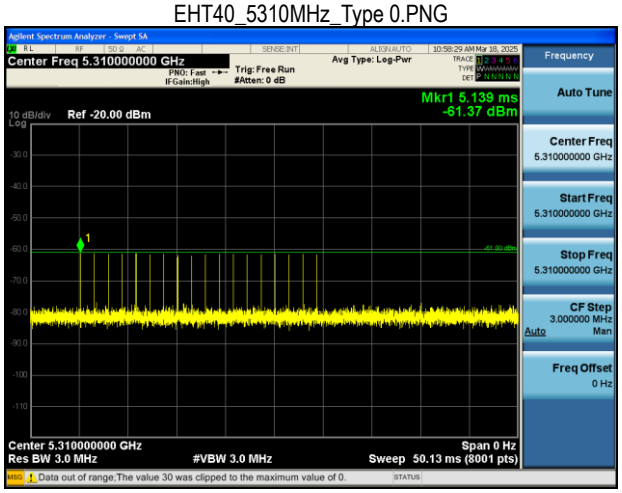

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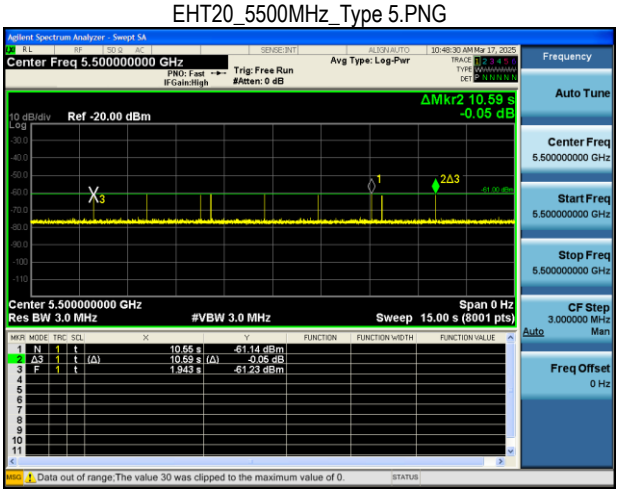

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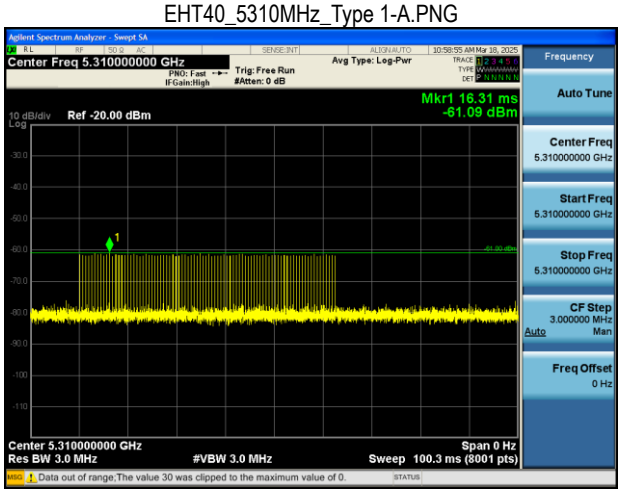

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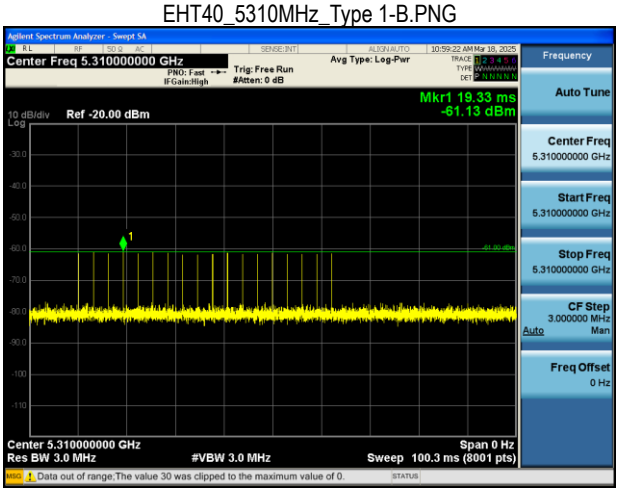

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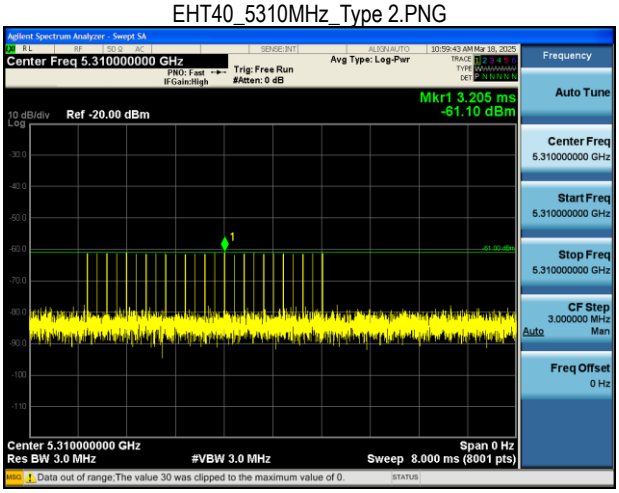

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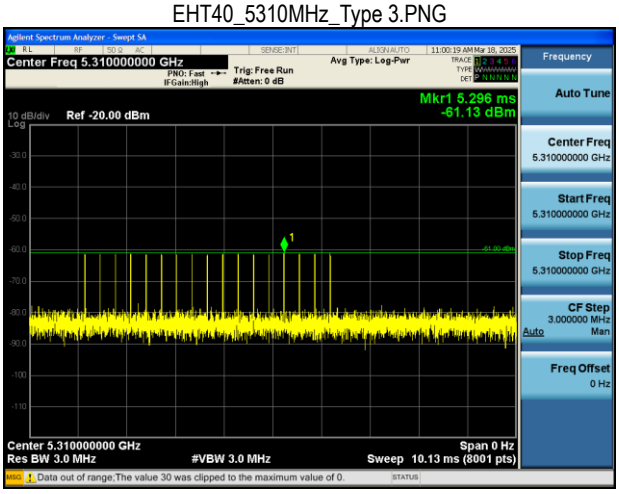

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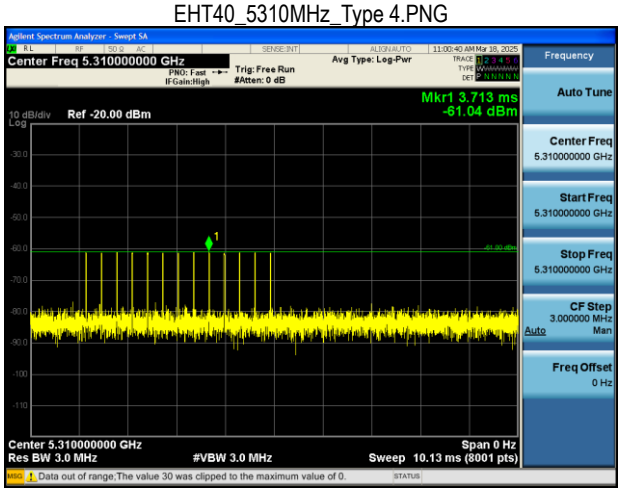

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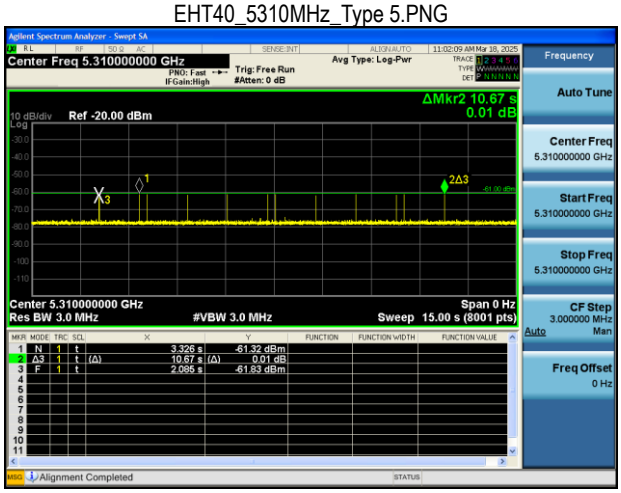

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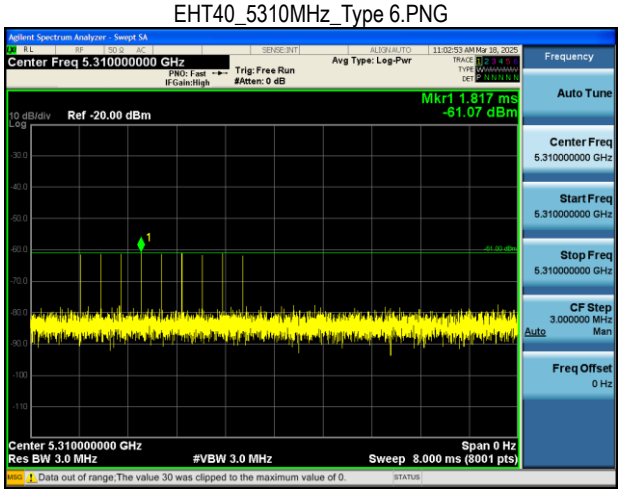

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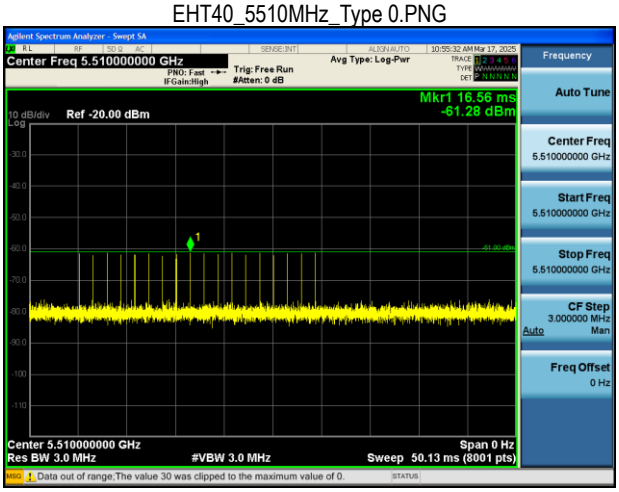
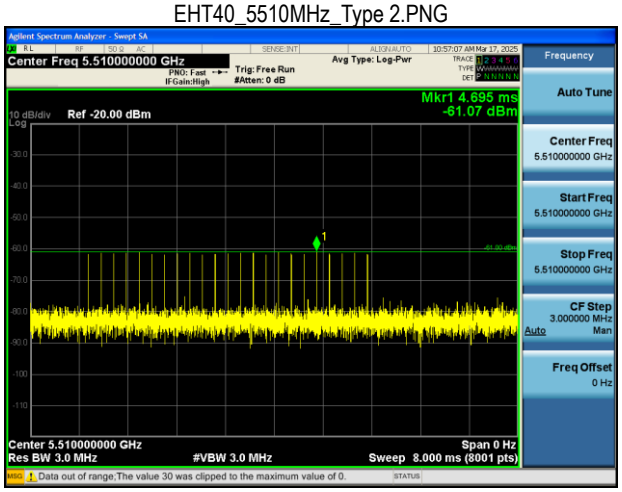
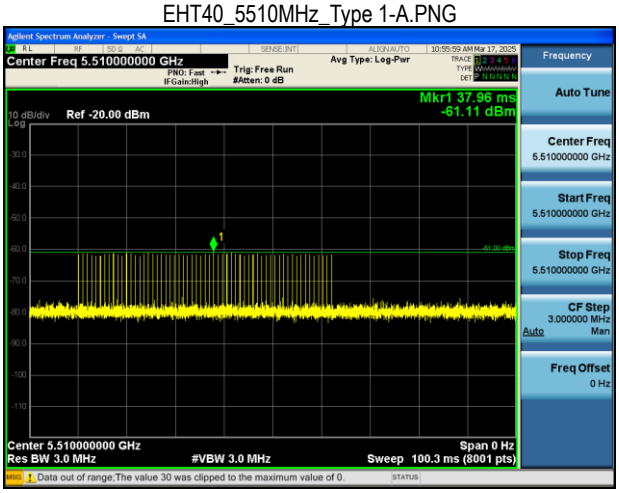
EHT40_5510MHz_Type 0.PNG



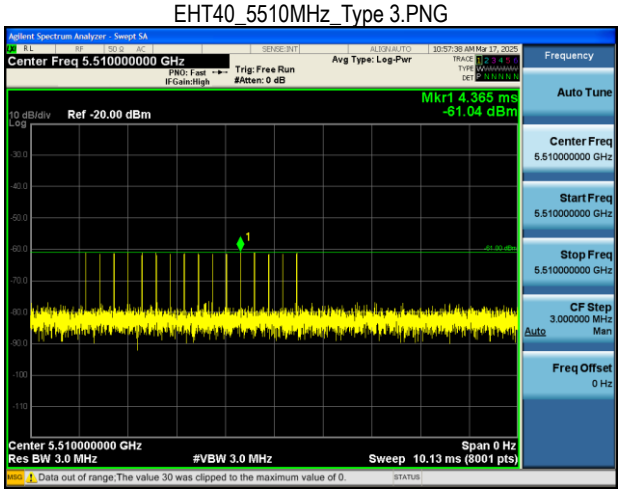
EHT40_5510MHz_Type 2.PNG



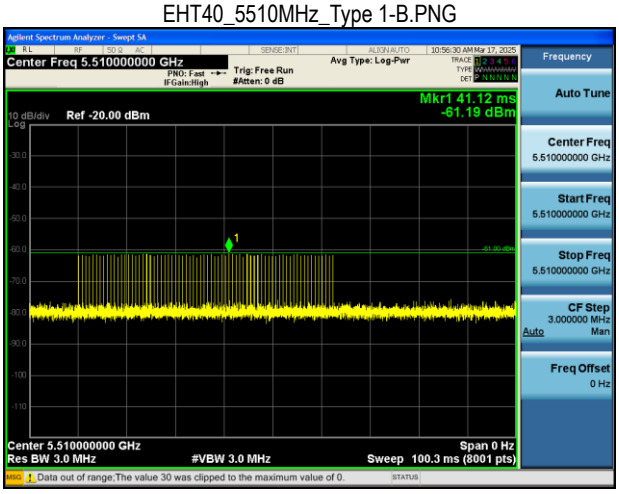
EHT40_5510MHz_Type 1-A.PNG



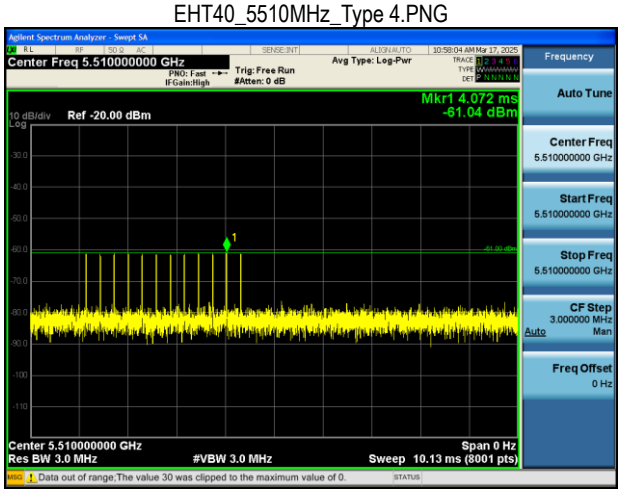
EHT40_5510MHz_Type 3.PNG



EHT40_5510MHz_Type 1-B.PNG



EHT40_5510MHz_Type 4.PNG



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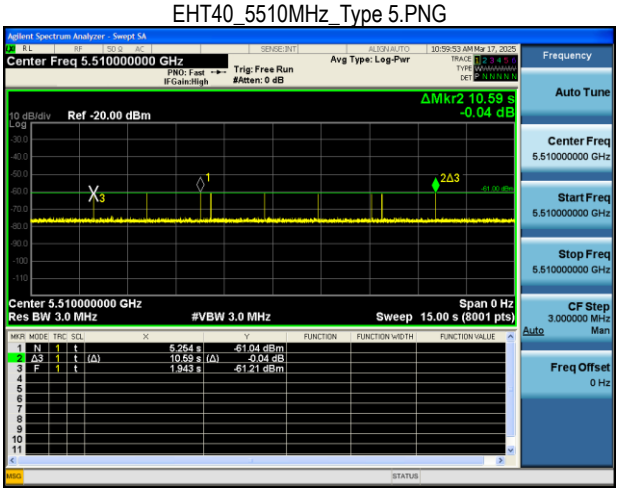
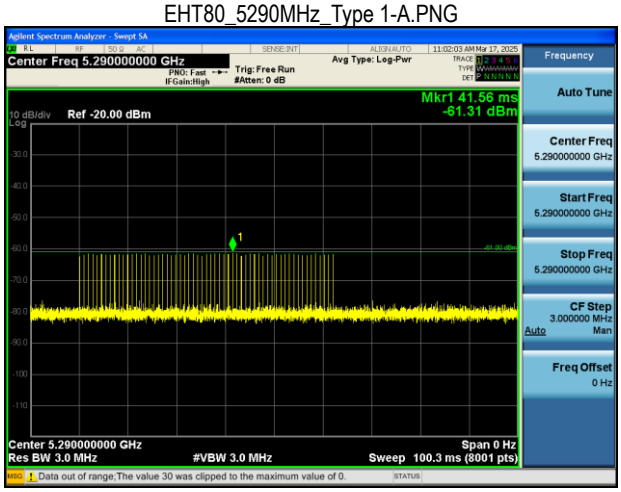
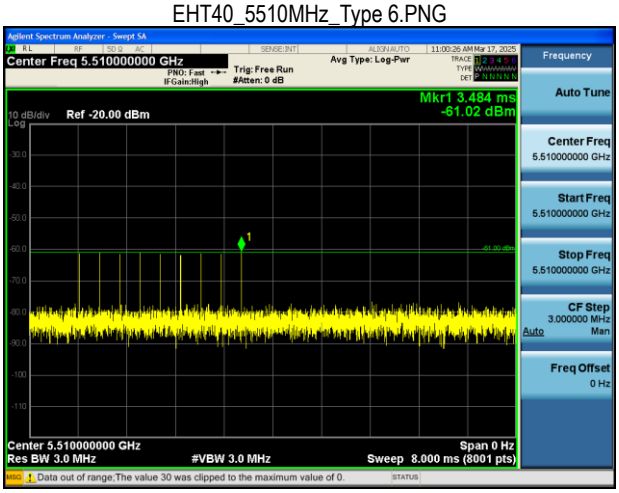
EHT40_5510MHz_Type 5.PNG



EHT80_5290MHz_Type 1-A.PNG



EHT40_5510MHz_Type 6.PNG



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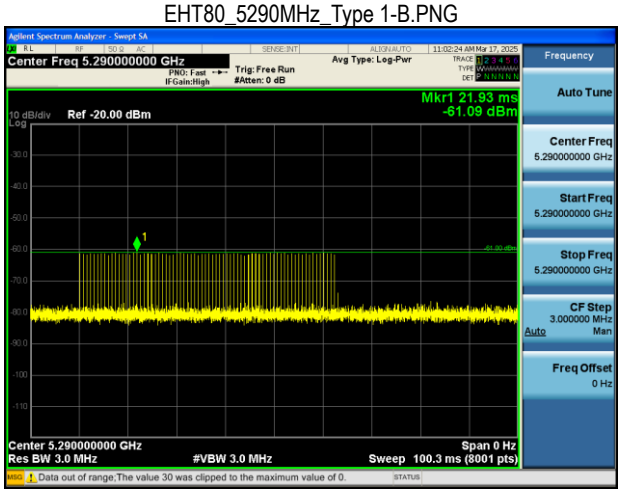

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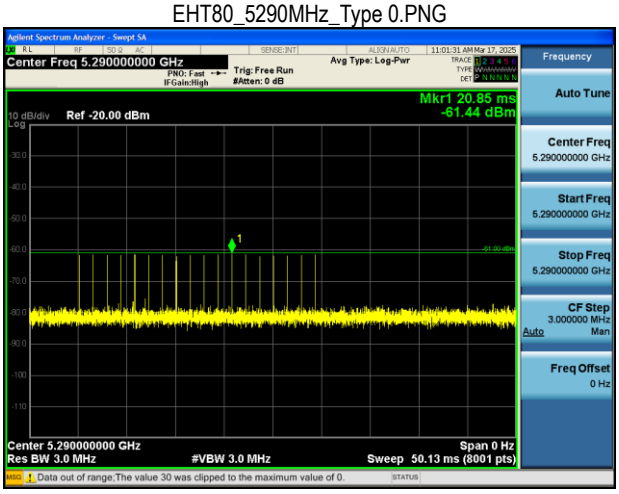
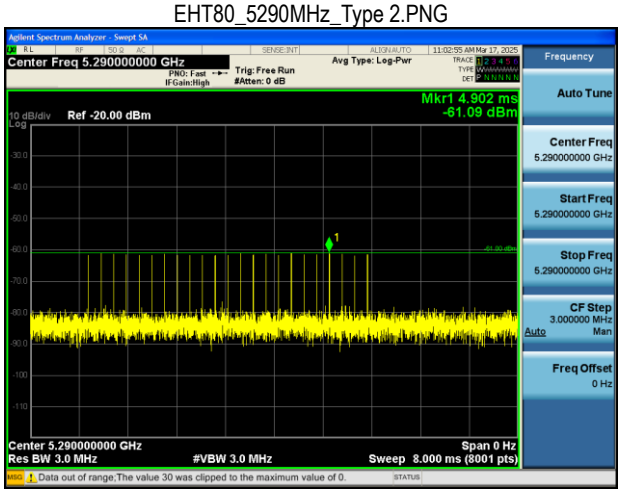


EHT80_5290MHz_Type 2.PNG



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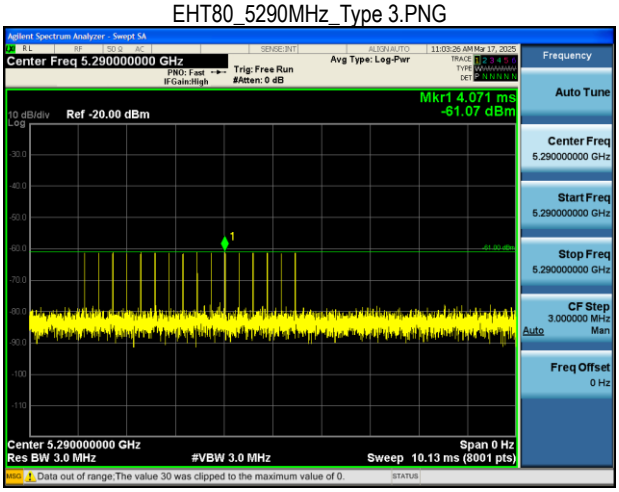
EHT80_5290MHz_Type 3.PNG



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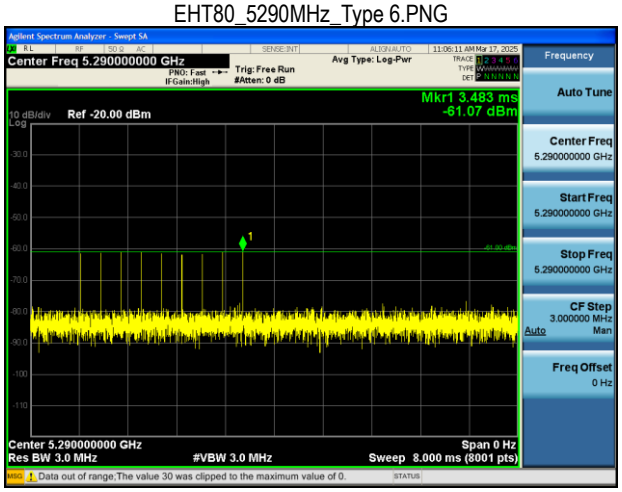
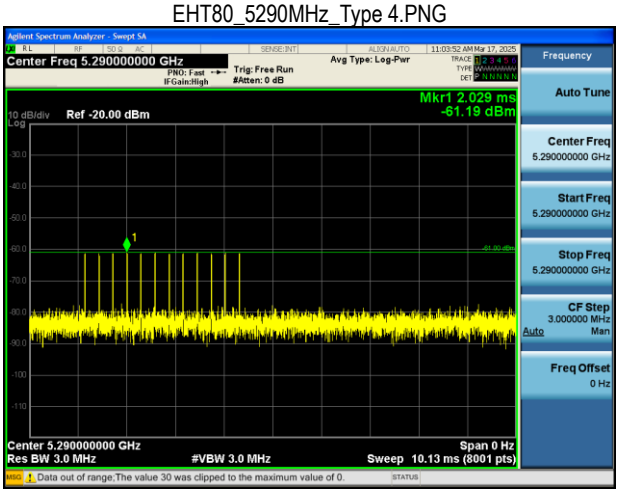
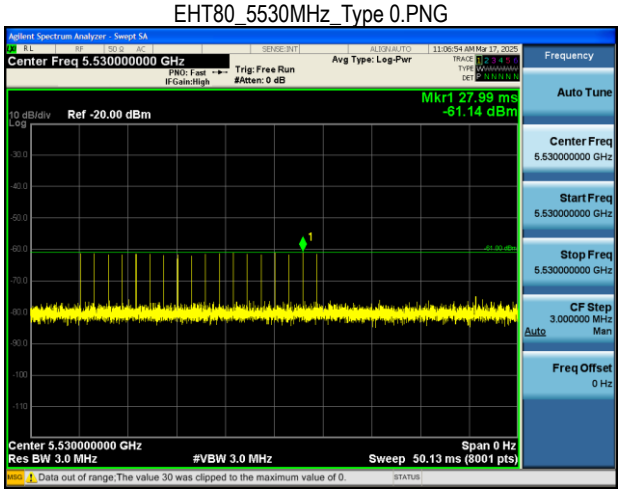


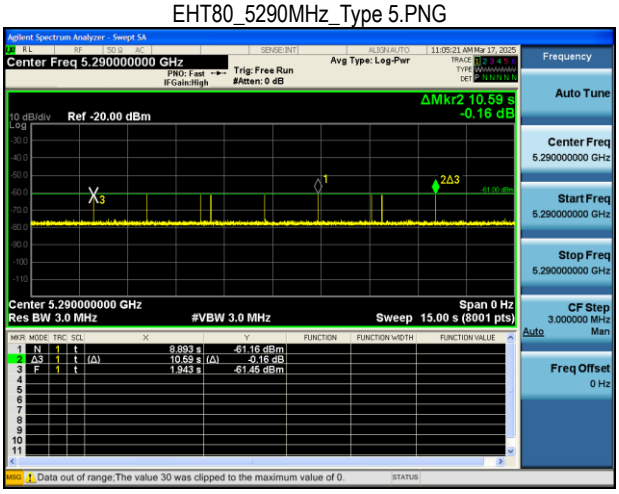
EHT80_5290MHz_Type 4.PNG



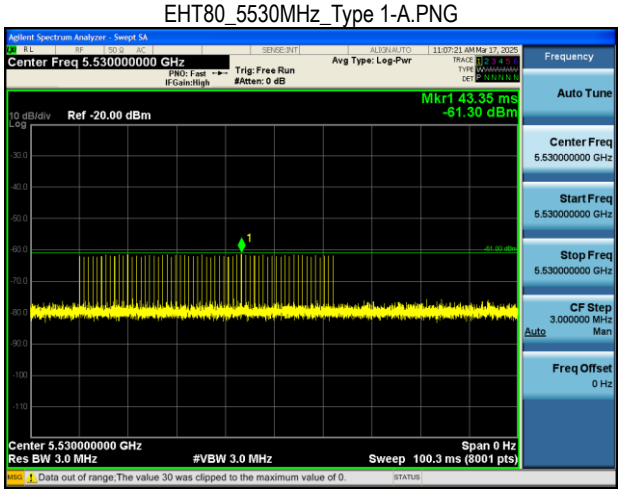
EHT80_5530MHz_Type 0.PNG



EHT80_5290MHz_Type 5.PNG



EHT80_5530MHz_Type 1-A.PNG



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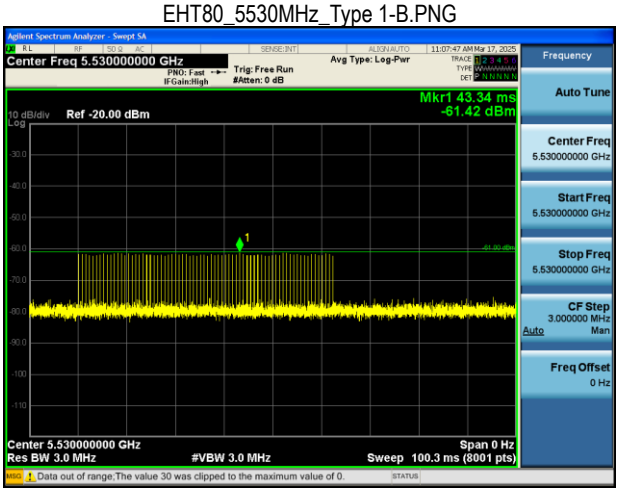
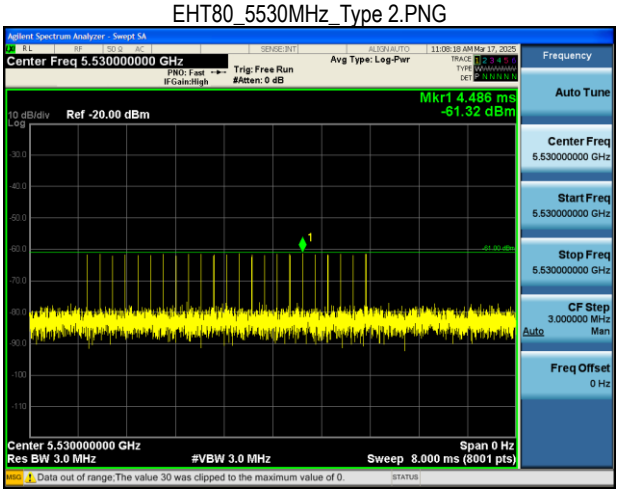
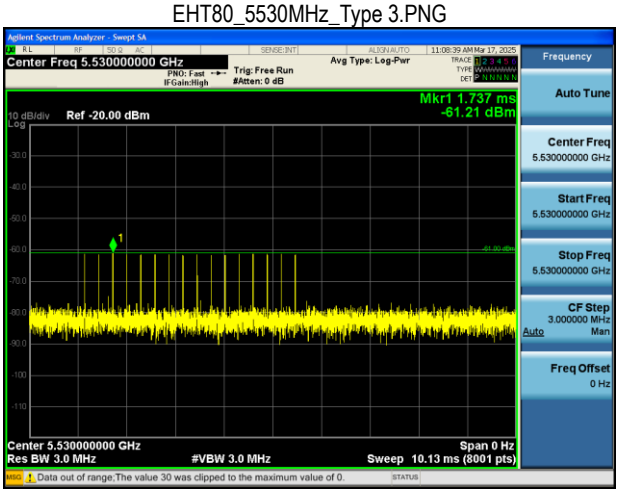
EHT80_5530MHz_Type 1-B.PNG



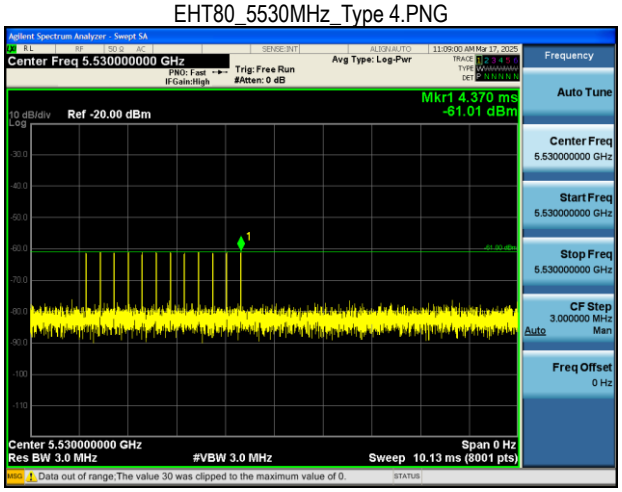
EHT80_5530MHz_Type 2.PNG



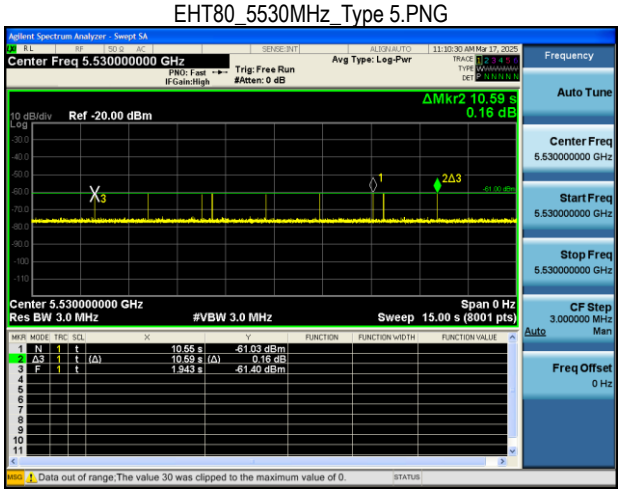
EHT80_5530MHz_Type 3.PNG



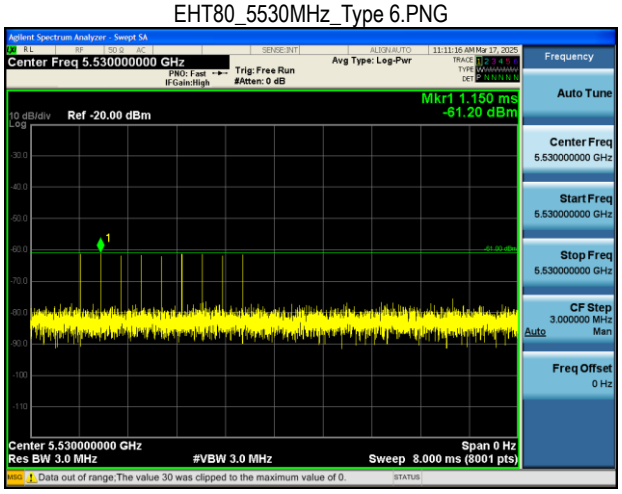
EHT80_5530MHz_Type 4.PNG



EHT80_5530MHz_Type 5.PNG



EHT80_5530MHz_Type 6.PNG



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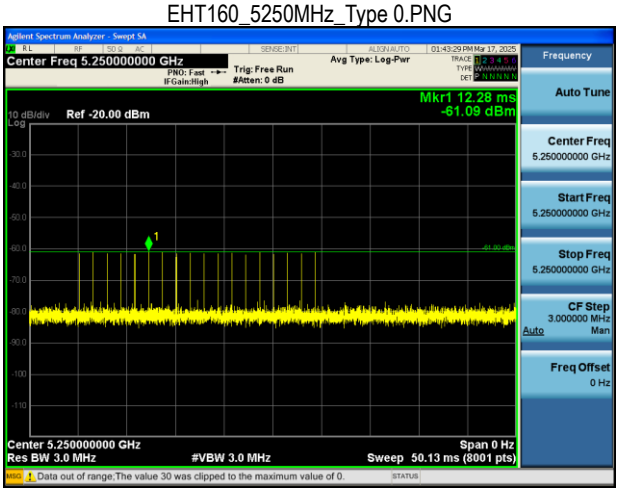
EHT160_5250MHz_Type 0.PNG



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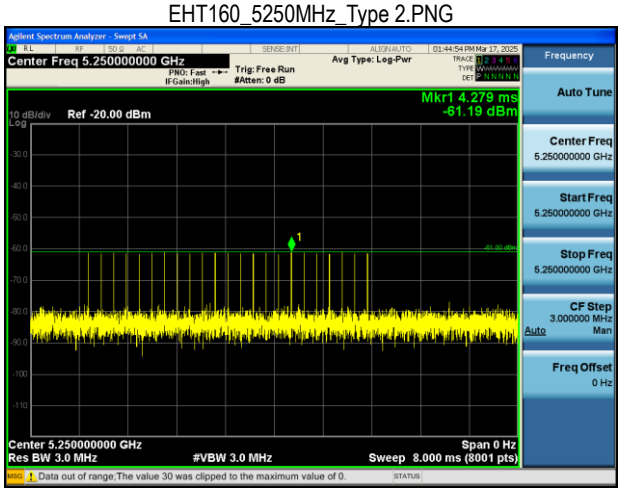
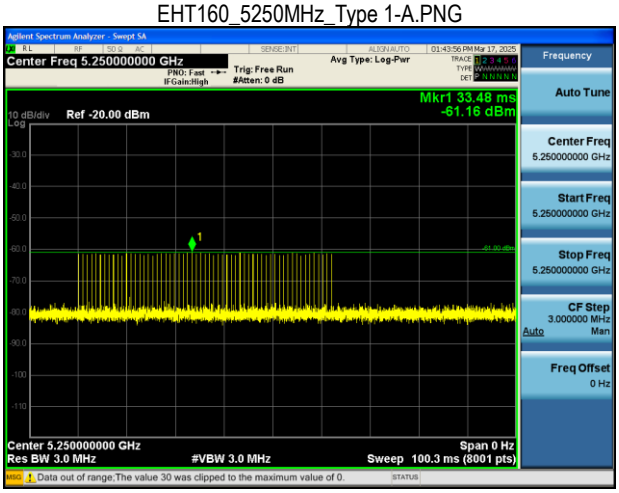
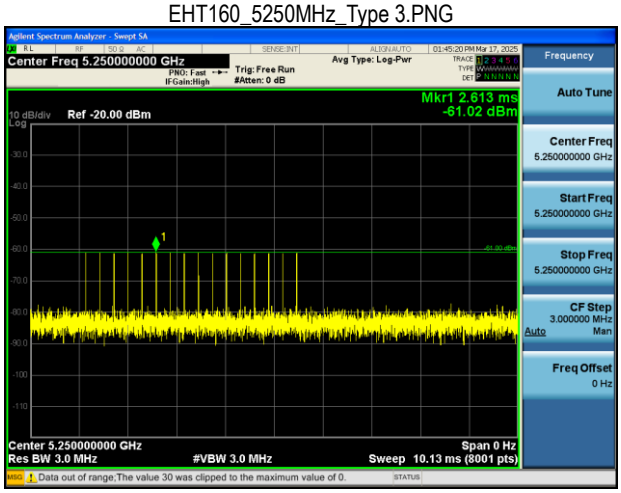


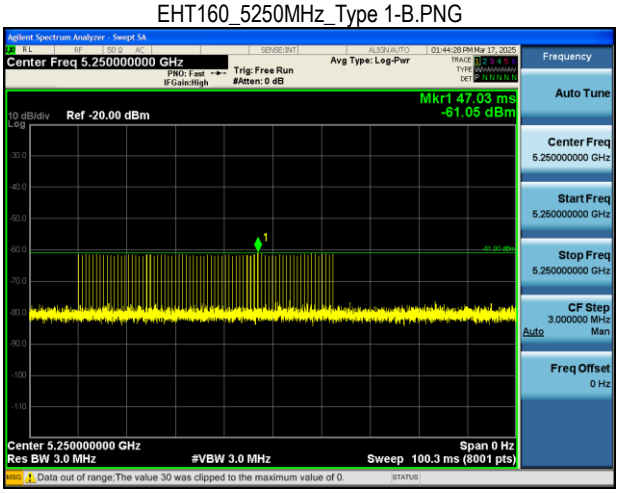
EHT160_5250MHz_Type 1-A.PNG



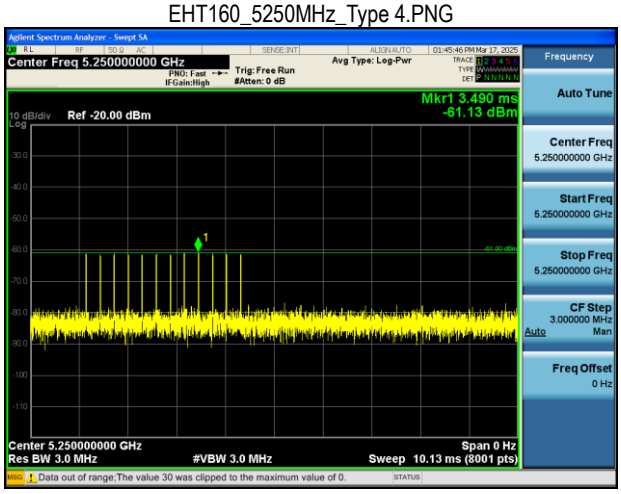
EHT160_5250MHz_Type 3.PNG



EHT160_5250MHz_Type 1-B.PNG



EHT160_5250MHz_Type 4.PNG



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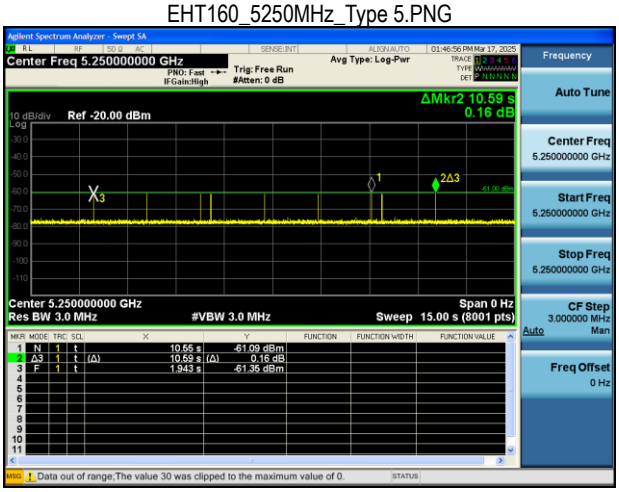
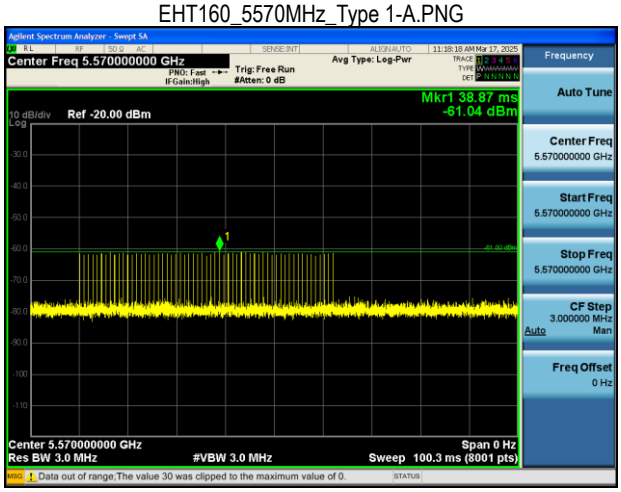
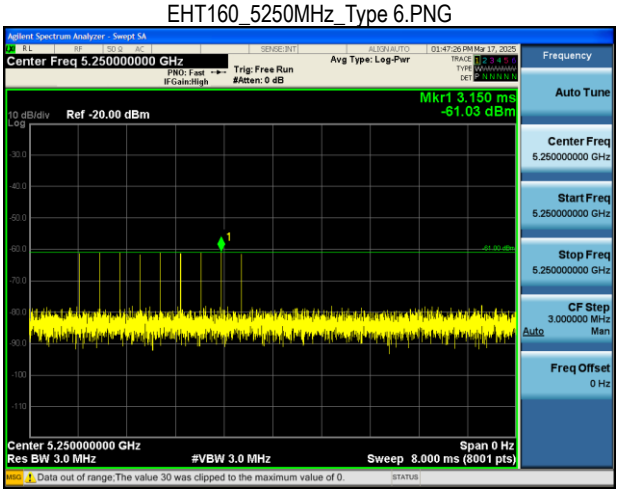
EHT160_5250MHz_Type 5.PNG



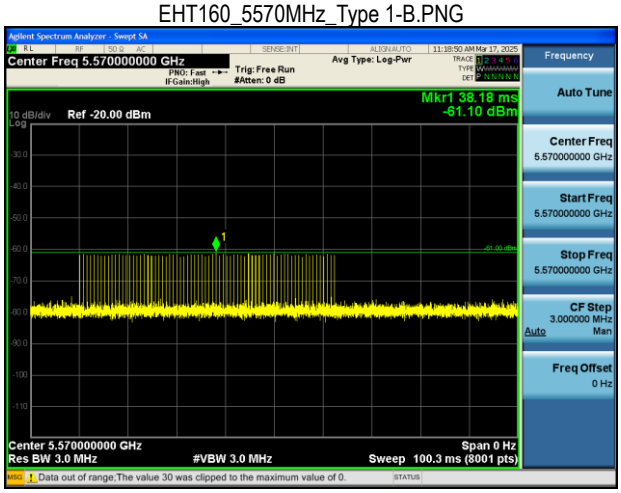
EHT160_5570MHz_Type 1-A.PNG



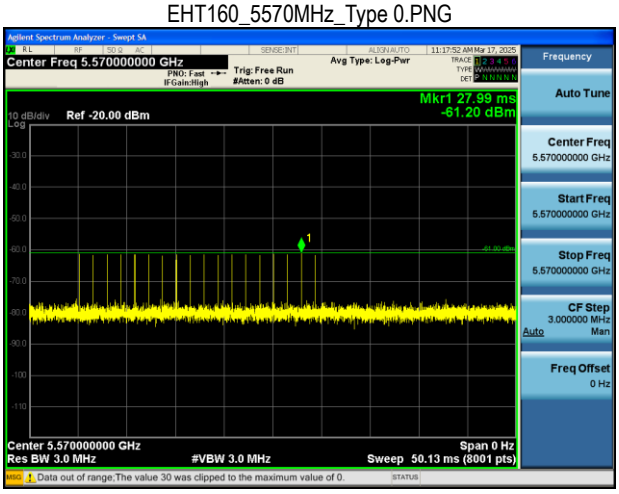
EHT160_5250MHz_Type 6.PNG



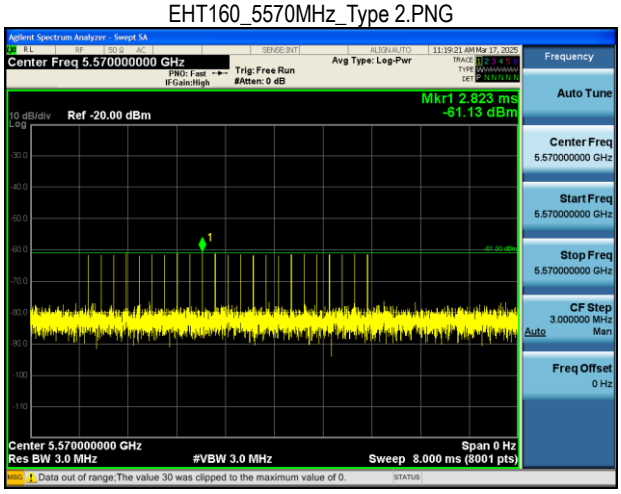
EHT160_5570MHz_Type 1-B.PNG



EHT160_5570MHz_Type 0.PNG



EHT160_5570MHz_Type 2.PNG



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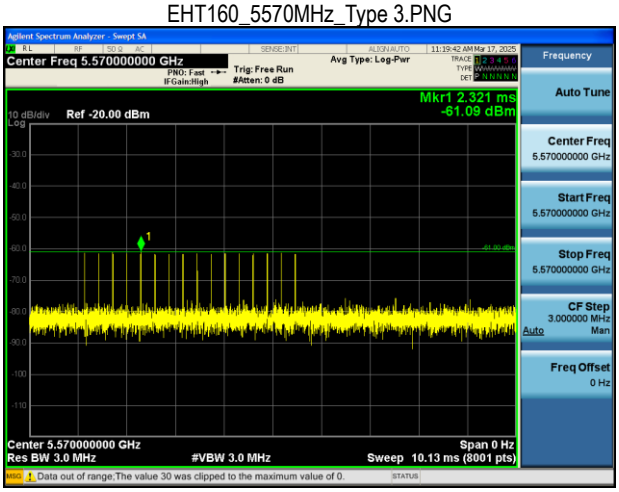
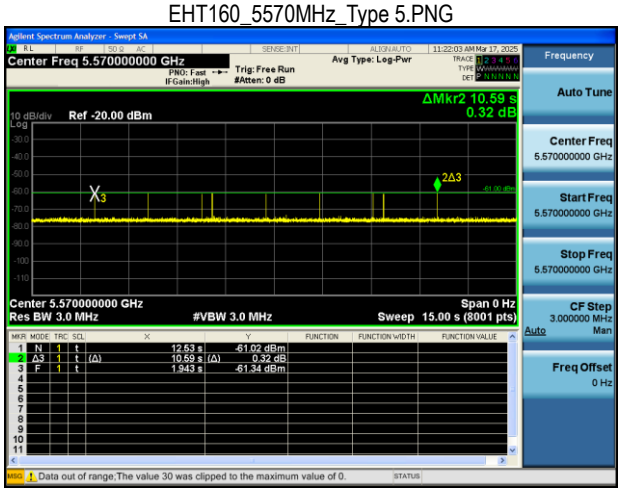
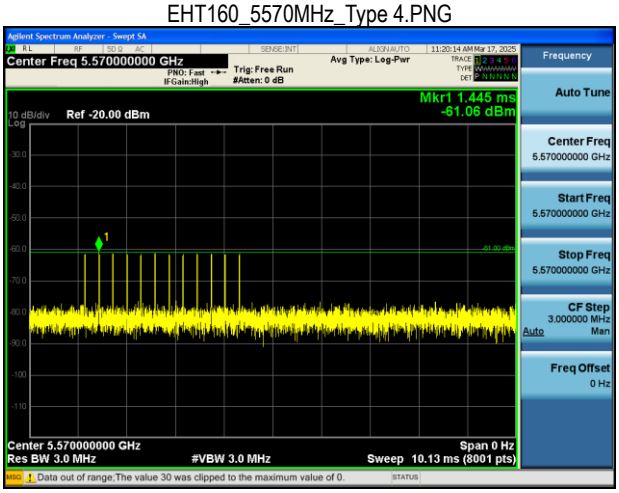
EHT160_5570MHz_Type 3.PNG



EHT160_5570MHz_Type 5.PNG



EHT160_5570MHz_Type 4.PNG



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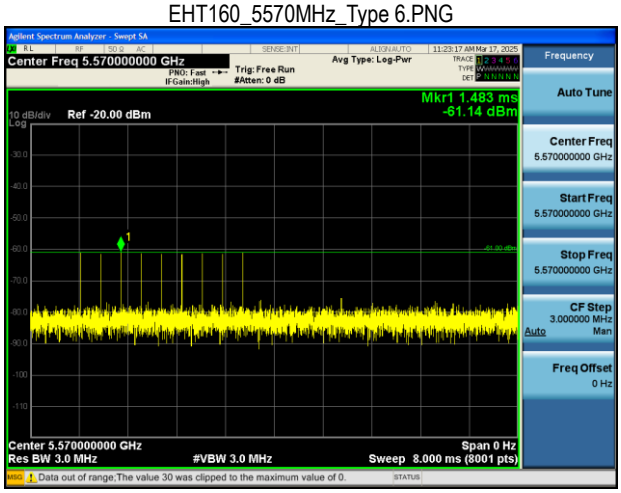

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10 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME MEASUREMENT

RADAR TYPE 0

Channel Shutdown Result				
Minimum of Peak Antenna Gain			3	
Detection Threshold Level (dBm)			-64 + Minimum of Peak Antenna Gain = -61	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms) 200ms~10sec	Channel Move Time(s)
EHT160	5250	Type 0	0	0.000
EHT160	5570	Type 0	0	0.000
Limit			60 ms	10 sec
Result			Complied	

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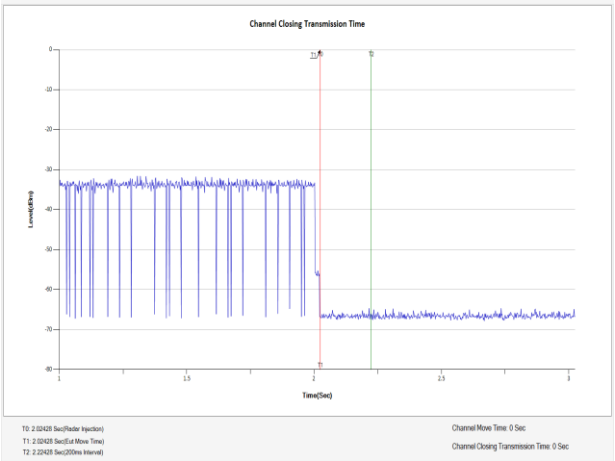
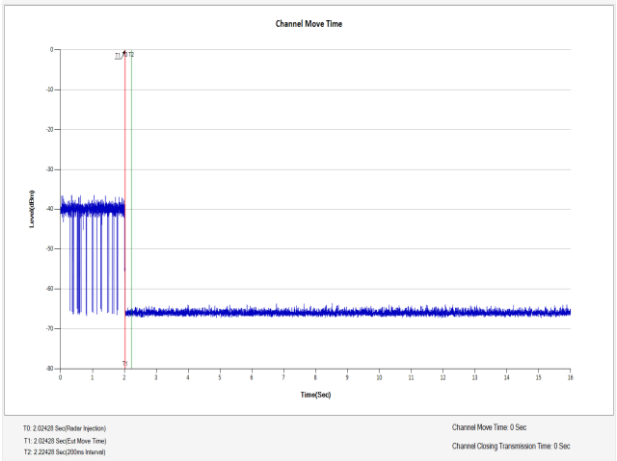
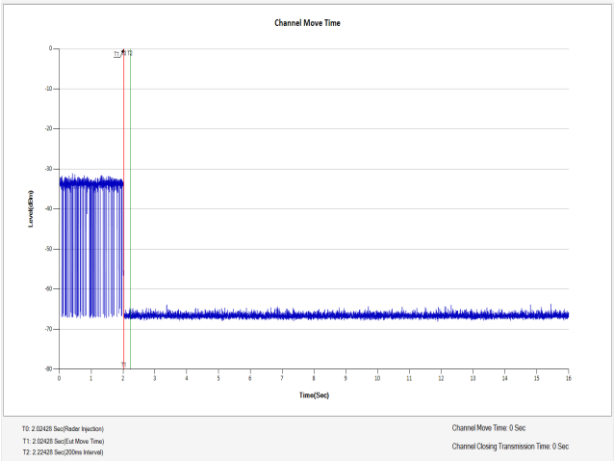
EHT160_5250MHz_Channel Close Time.PNG



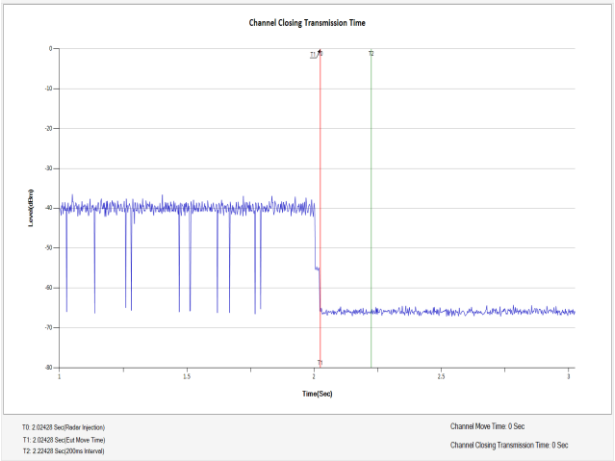
EHT160_5570MHz_Channel Move Time.PNG



EHT160_5250MHz_Channel Move Time.PNG



EHT160_5570MHz_Channel Close Time.PNG



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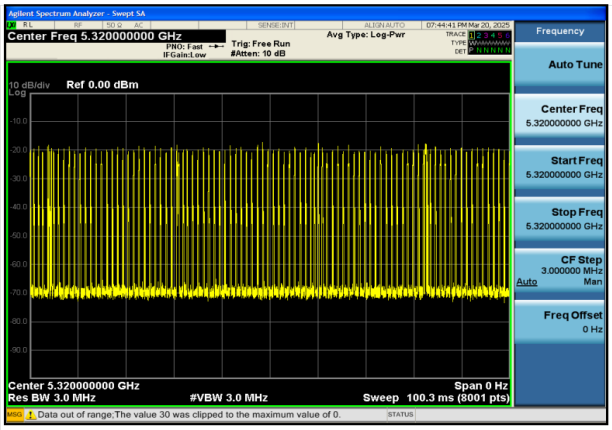
11 DUTY CYCLE

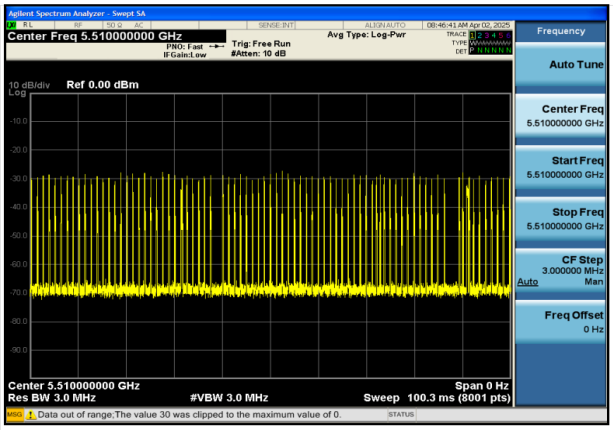
EHT20_5320MHz_Duty Cycle



Duty Cycle: 18.02275 %

*The Channel Loading must be more than 17%

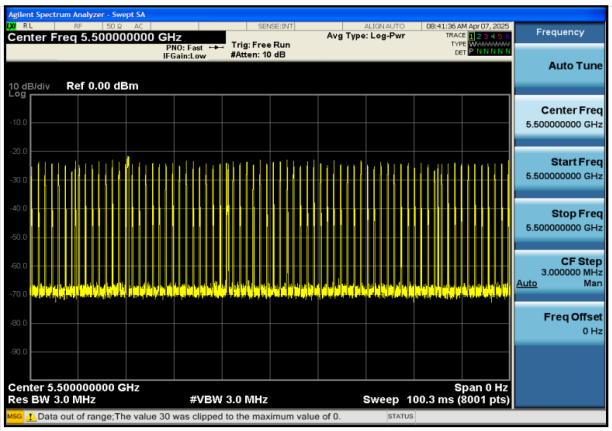
EHT40_5510MHz_Duty Cycle



Duty Cycle: 17.51031 %

*The Channel Loading must be more than 17%

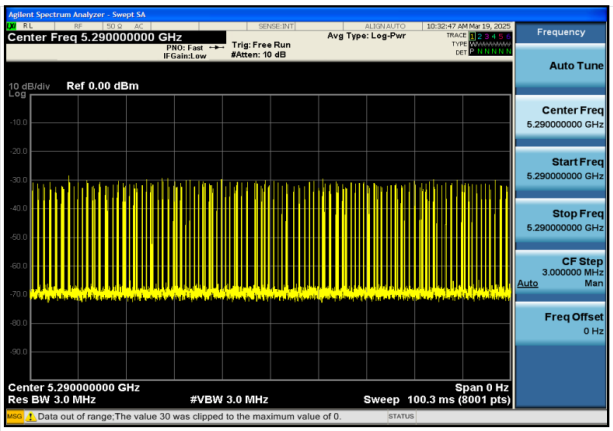
EHT20_5500MHz_Duty Cycle



Duty Cycle: 18.99763 %

*The Channel Loading must be more than 17%

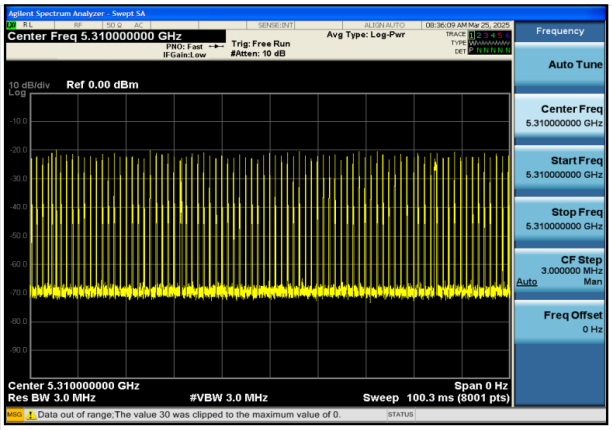
EHT80_5290MHz_Duty Cycle



Duty Cycle: 17.53531 %

*The Channel Loading must be more than 17%

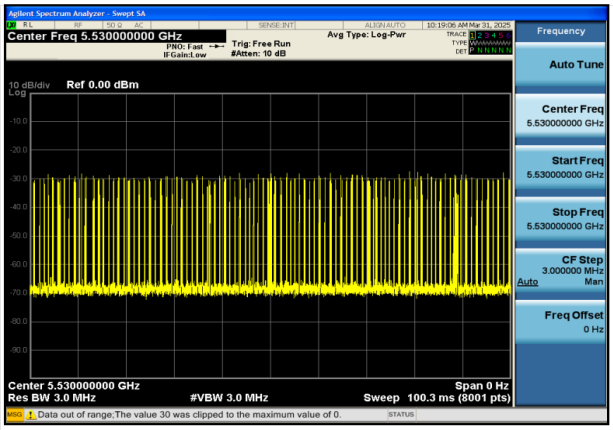
EHT40_5310MHz_Duty Cycle



Duty Cycle: 18.01025 %

*The Channel Loading must be more than 17%

EHT80_5530MHz_Duty Cycle



Duty Cycle: 17.6103 %

*The Channel Loading must be more than 17%

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