

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Askey Computer Corporation
10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan

Manufacturer: Askey Computer Corporation
10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan

Product Name: 5G NR Sub 6 WiFi 7 Router

Brand Name: Verizon

Model No.: ASK-NCM1100

Model Difference: N/A

Report Number: TERF2309002271E2

FCC ID H8N-ASK-NCM1100

Date of EUT Received: August 4, 2023

Date of Test: August 4, 2023~October 16, 2023

Issue Date: November 13, 2023

Approved By _____

Vito Pei

Vito Pei

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.

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
TERF2309002271E2	00	Original.	November 13, 2023	Susan Lin	

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

Product Name:	5G NR Sub 6 WiFi 7 Router
Brand Name:	Verizon
Model No.:	ASK-NCM1100
Model Difference:	N/A
Hardware Version:	Rev4
Firmware Version:	SDK 2.0.6
EUT Series No.:	E1E7000875
Power Supply:	12V

1.2 DFS Firmware version:

OpenWrt
Status ▾ System ▾ Network ▾ Telephony ▾ VPN ▾ MTK ▾ Logout
REFRESHING

No password set!

There is no password set on this router. Please configure a root password to protect the web interface.

Status

System

Hostname	OpenWrt
Model	MediaTek evb6990_cpe_mt7990_emmc
Architecture	ARMv8 Processor rev 0
Target Platform	gem6xxx/evb6990_cpe_mt7990_emmc
Firmware Version	OpenWrt 21.02.7 r16847-f8282da11e / LuCI Master git-23.219.16554-e527d4e
Kernel Version	5.4.238
Local Time	2023-04-21 03:18:54
Uptime	0h 5m 56s
Load Average	11.17, 8.00, 3.71

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1.3 FCC WLAN 5GHz:

Wi-Fi 802.11	Frequency Range	Channels	Modulation Technology
a / n_HT ac_VHT / ax_HE/ be_EHT 20M	5150~5250	4	OFDM / OFDMA
	5250~5350	4	
	5470~5725	12	
	5725~5850	5	
n_HT ac_VHT / ax_HE/ be_EHT 40M	5150~5250	2	OFDM / OFDMA
	5250~5350	2	
	5470~5725	6	
	5725~5850	2	
ac_VHT / ax_HE/ be_EHT 80M	5150~5250	1	OFDM / OFDMA
	5250~5350	1	
	5470~5725	3	
	5725~5850	1	
ac_VHT / ax_HE/ be_EHT 160M	5150~5350	1	OFDM / OFDMA
	5470~5725	1	

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1.4 Antenna Designation

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	Antenna 11	5150~5250	3.12
		5250~5350	4.73
		5470~5725	2.94
		5725~5850	1.09
	Antenna 12	5150~5250	3.69
		5250~5350	3.33
		5470~5725	3.35
		5725~5850	3.51
	Antenna 13	5150~5250	2.82
		5250~5350	3.32
		5470~5725	2.19
		5725~5850	2.36
	Antenna 14	5150~5250	4.06
		5250~5350	3.43
		5470~5725	2.98
		5725~5850	2.89

Note:

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the lowest gain as worst case scenarios.
2. 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

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	TPC and DFS Measurement	Compliant

3 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
TPC and DFS Measurement	+/- 1.04 Hz
Temperature	+/- 0.7 °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:

Yes, The EUT equipped with TPC function.

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.
- (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,

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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	
	<input checked="" type="checkbox"/> Master	<input type="checkbox"/> 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
Channel 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
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

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.
<p>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.</p> <p>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.</p> <p>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.</p>	

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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 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	Roundup $\left\{ \begin{array}{l} \left(\frac{1}{360} \right) \cdot \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	60%	30
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

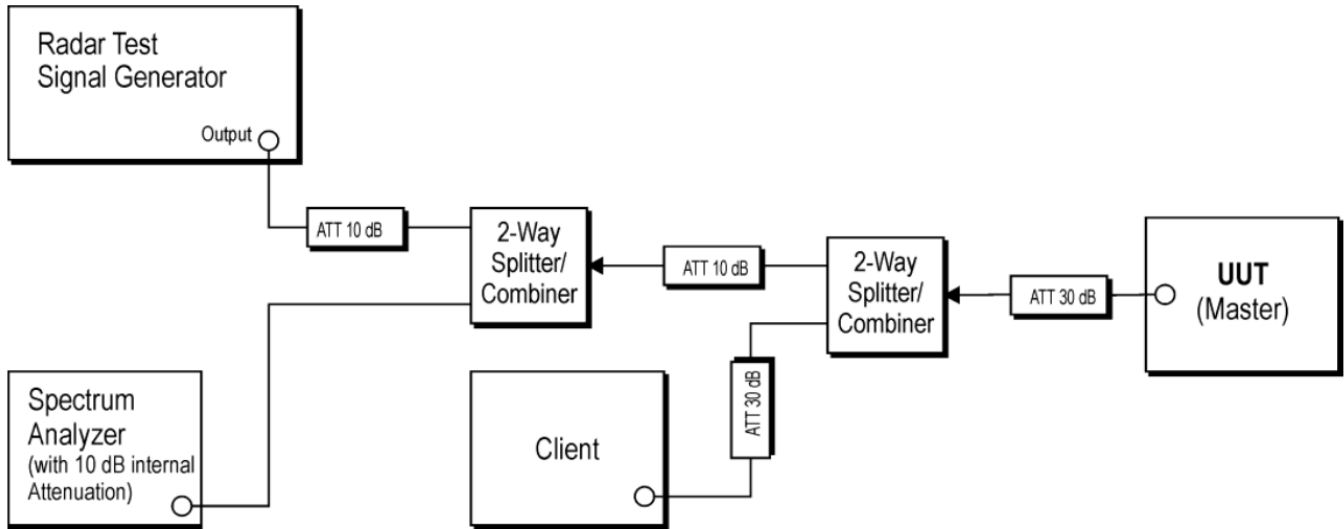
The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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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 B					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Anritsu	N9038A	MY52260216	11/28/2022	11/27/2023
Signal Generator	Keysight	N5182B	MY59101143	02/22/2023	02/21/2024
Test Software	SGS Taiwan	Dynamic Frequency Selection Test	Ver. 23.03.08	N.C.R	N.C.R
Attenuator	KEYSIGHT	11716C	8494B TH60075458+8496 B TH60075263	11/16/2022	11/15/2023
Power Divider	Titan	T0510E2W118Q	22015159	11/16/2022	11/15/2023
Power Divider	Titan	T0510E2W118Q	22015160	11/16/2022	11/15/2023
Power Divider	Titan	T0510E4W118Q	22015181	11/16/2022	11/15/2023
Power Divider	Titan	T0510E4W118Q	22015182	11/16/2022	11/15/2023

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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 $\geq 23\text{dBm}$ (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 $< 23\text{ dBm}$ (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	2.19	-64.81

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.

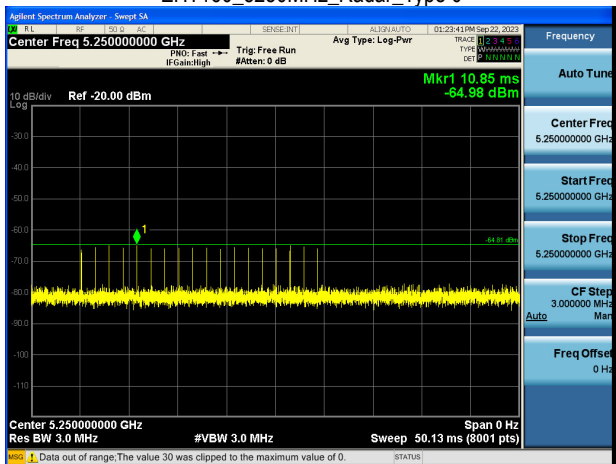
The Slave device associated with the EUT during these tests does not have radar detection capability.

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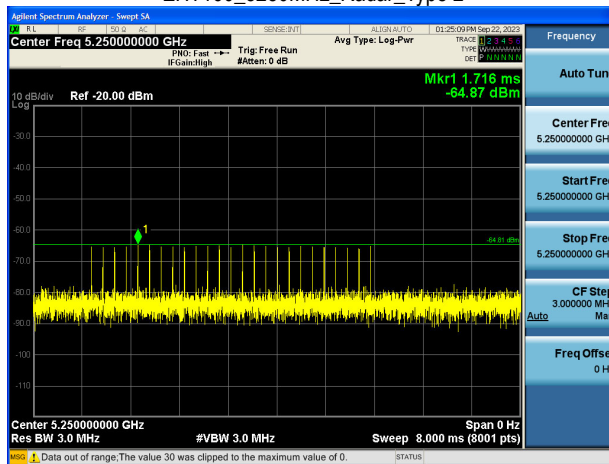
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9 RADAR TYPE WAVEFORM CALIBRATION AT DFS DETECTION THRESHOLD

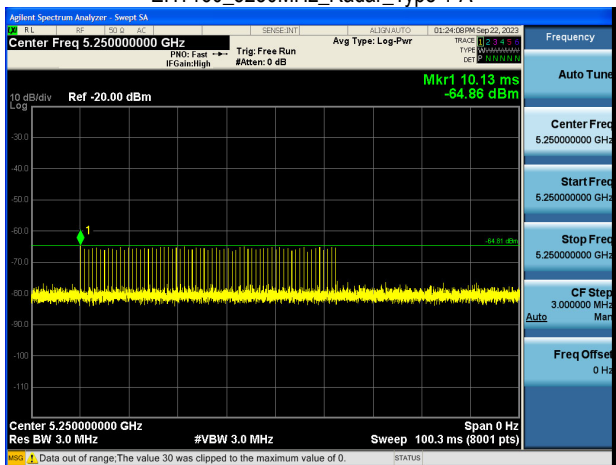
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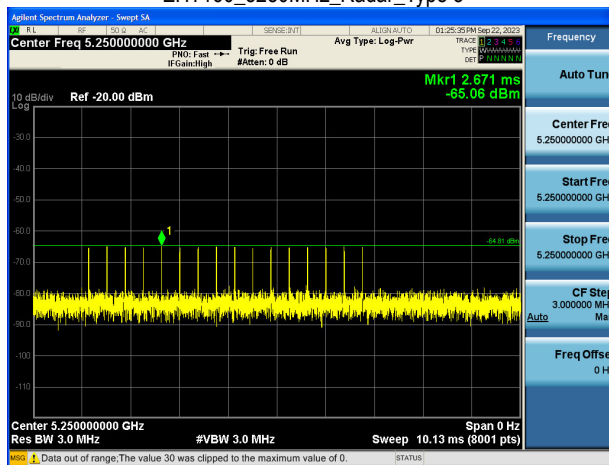
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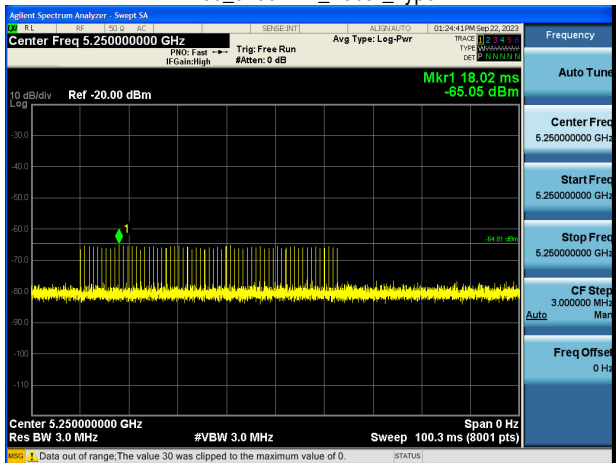
EHT160_5250MHz_Radar_Type 1-A



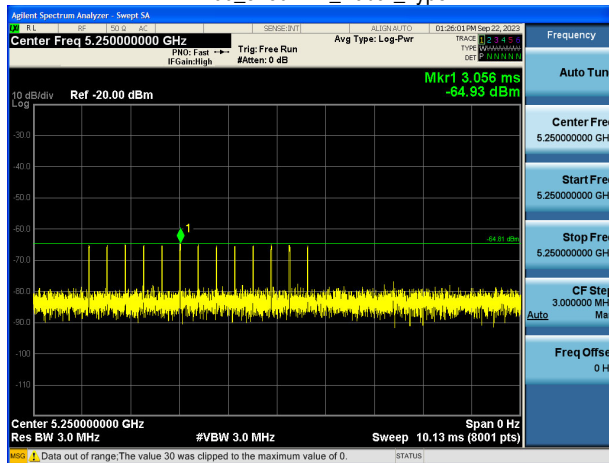
EHT160_5250MHz_Radar_Type 3



EHT160_5250MHz_Radar_Type 1-B



EHT160_5250MHz_Radar_Type 4



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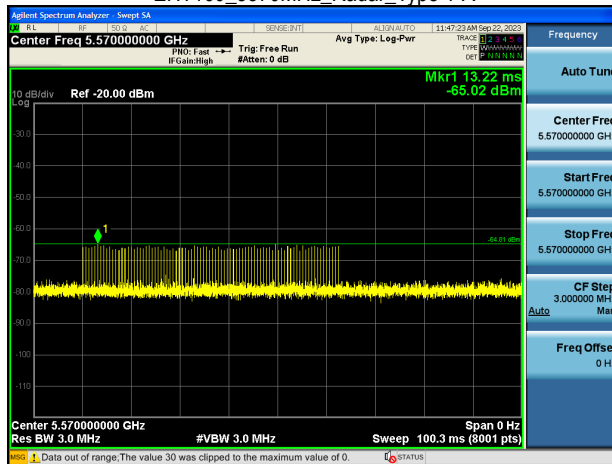
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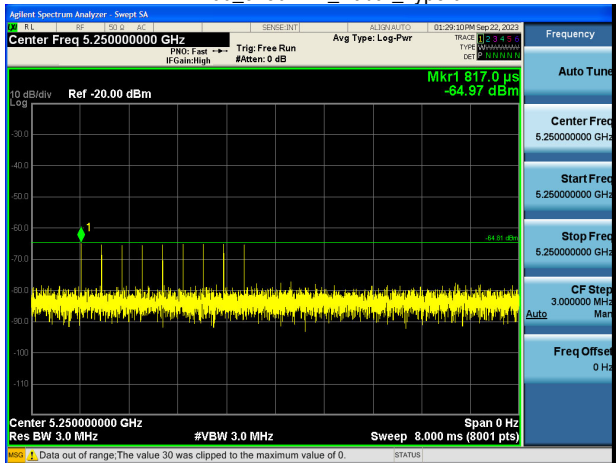
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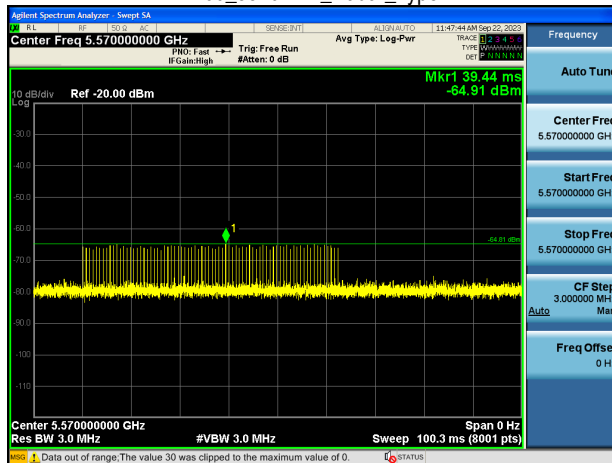
EHT160_5570MHz_Radar_Type 1-A



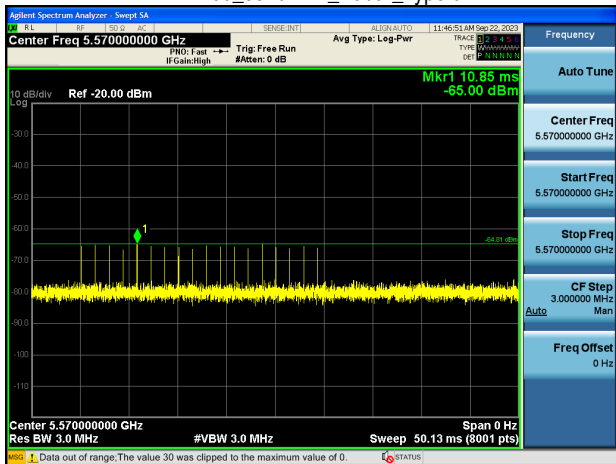
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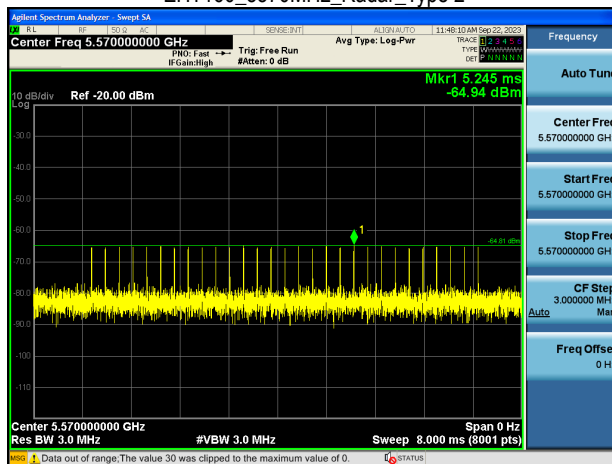
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EHT160_5570MHz_Radar_Type 0



EHT160_5570MHz_Radar_Type 2

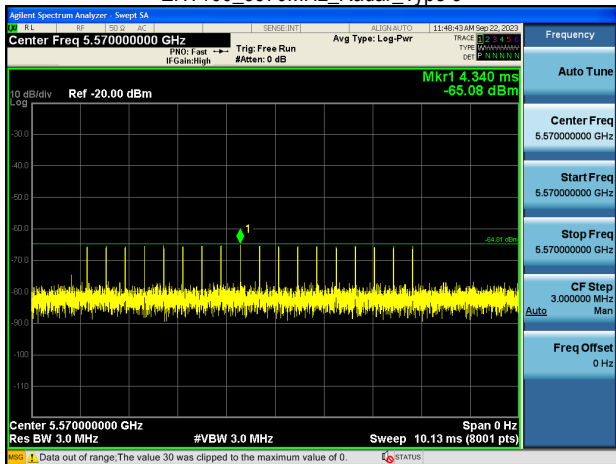


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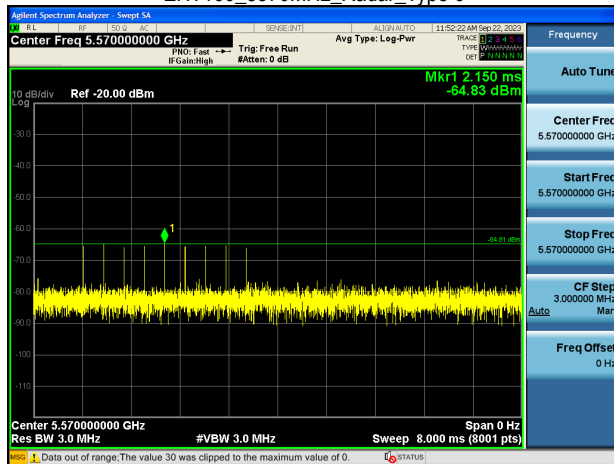
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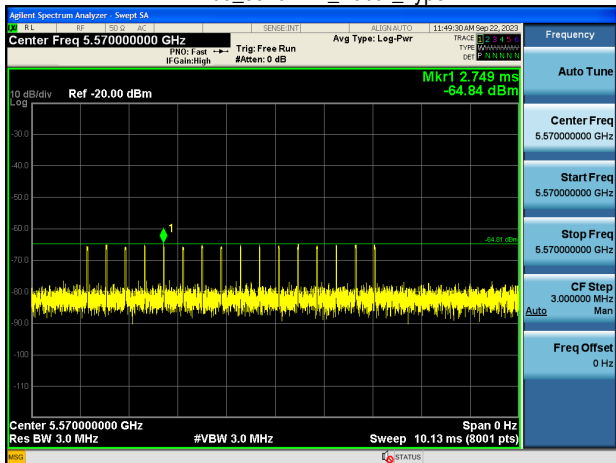
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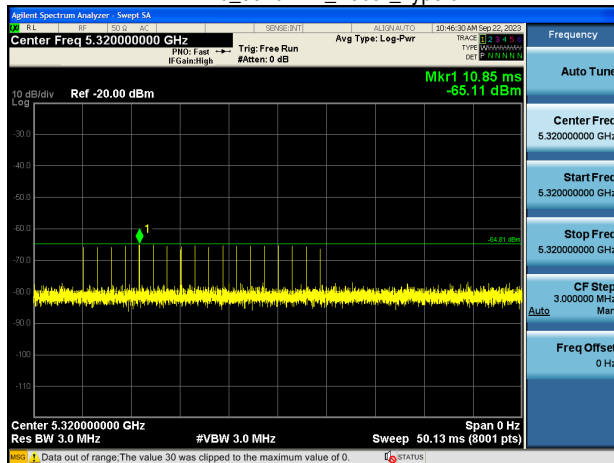
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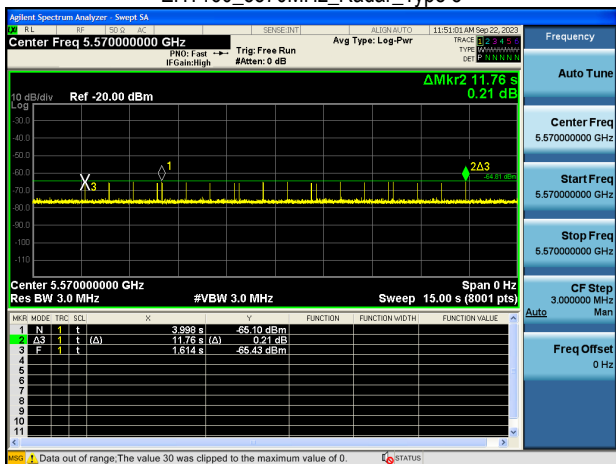
EHT160_5570MHz_Radar_Type 4



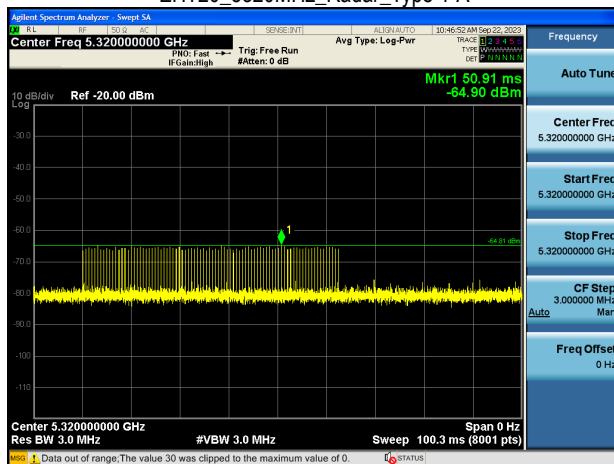
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EHT160_5570MHz_Radar_Type 5



EHT20_5320MHz_Radar_Type 1-A

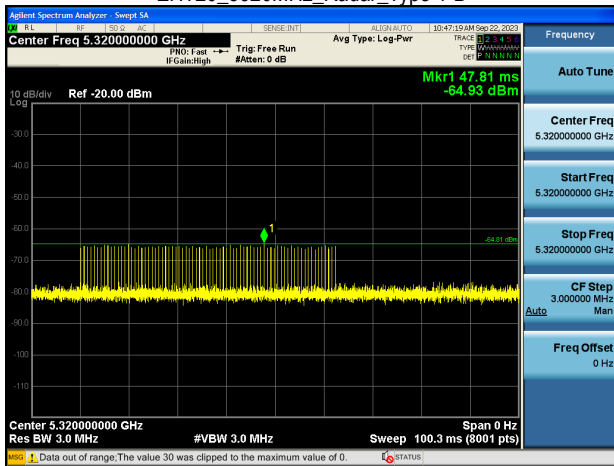


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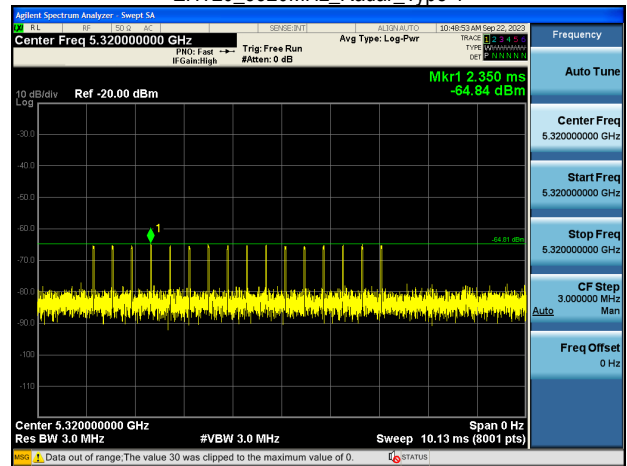
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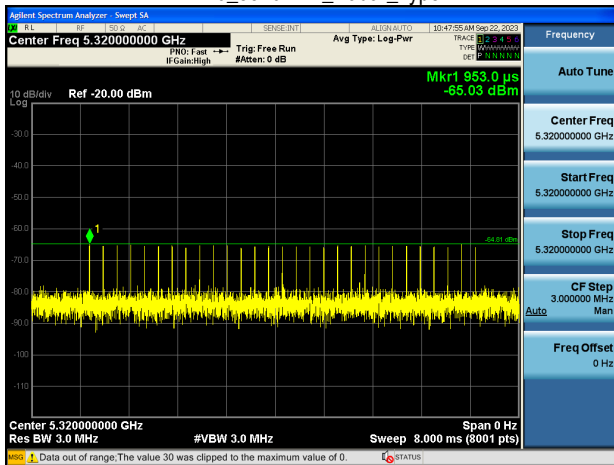
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EHT20_5320MHz_Radar_Type 4



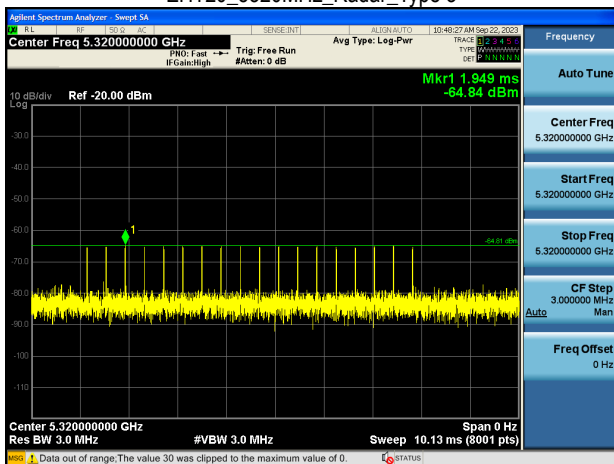
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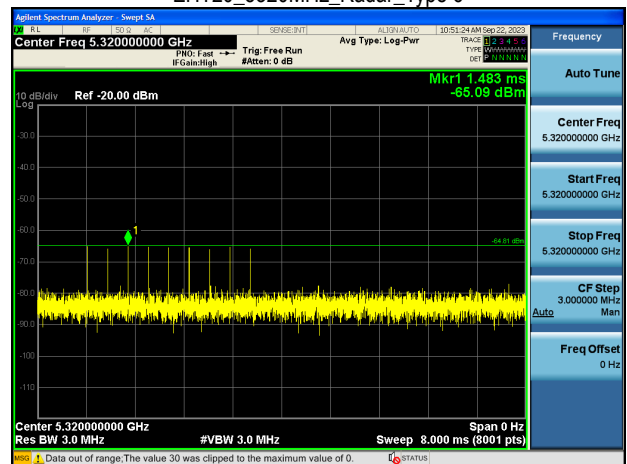
EHT20_5320MHz_Radar_Type 5



EHT20_5320MHz_Radar_Type 3



EHT20_5320MHz_Radar_Type 6

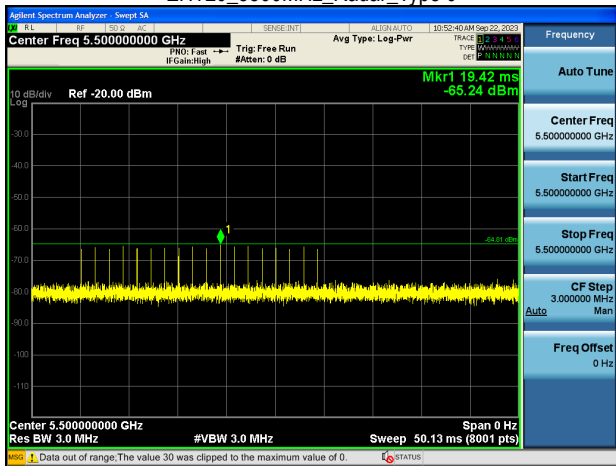


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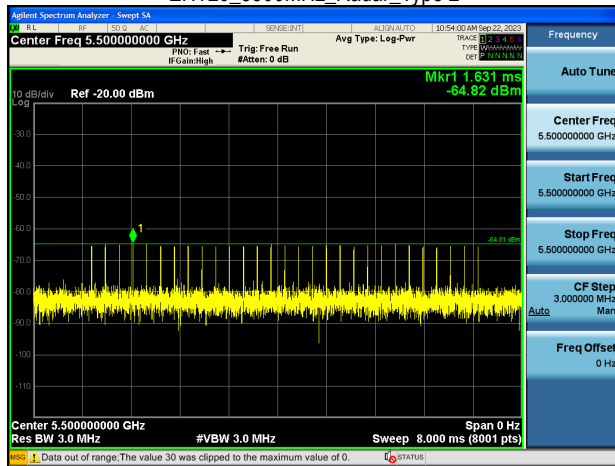
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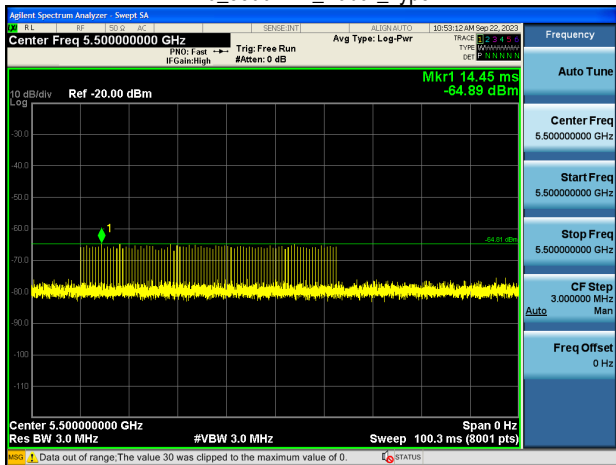
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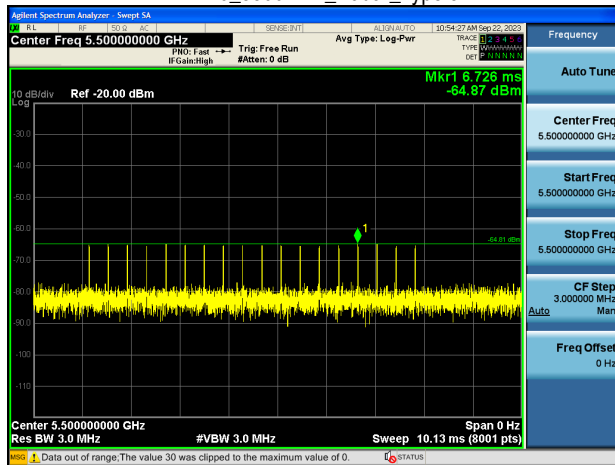
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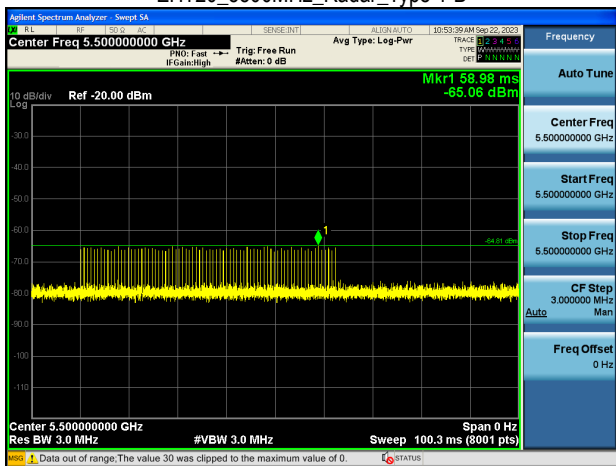
EHT20_5500MHz_Radar_Type 1-A



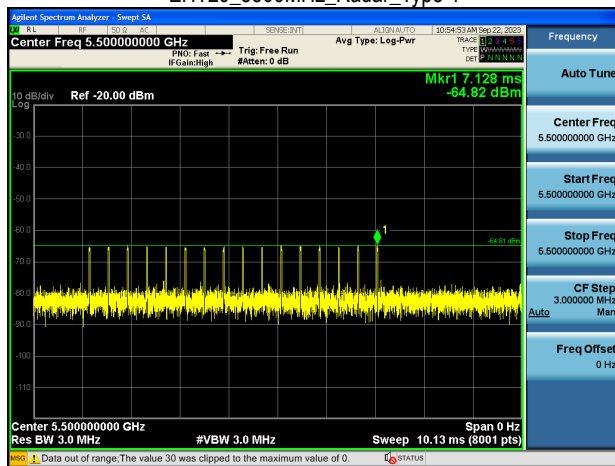
EHT20_5500MHz_Radar_Type 3



EHT20_5500MHz_Radar_Type 1-B



EHT20_5500MHz_Radar_Type 4



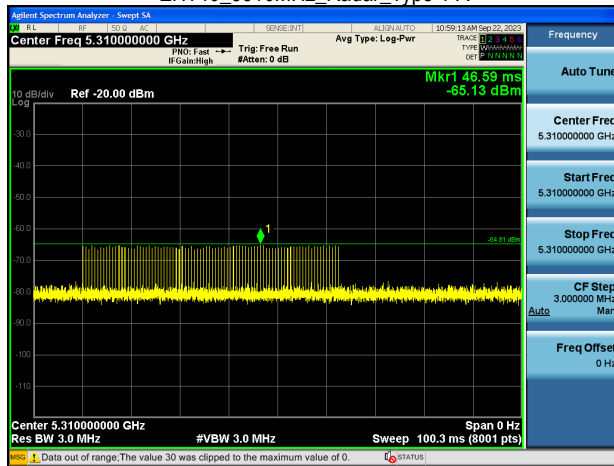
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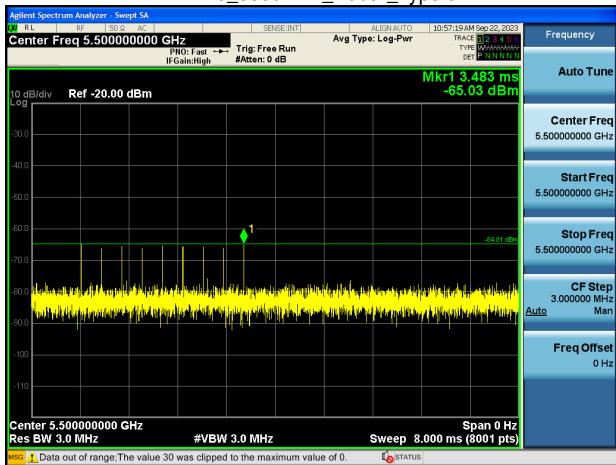
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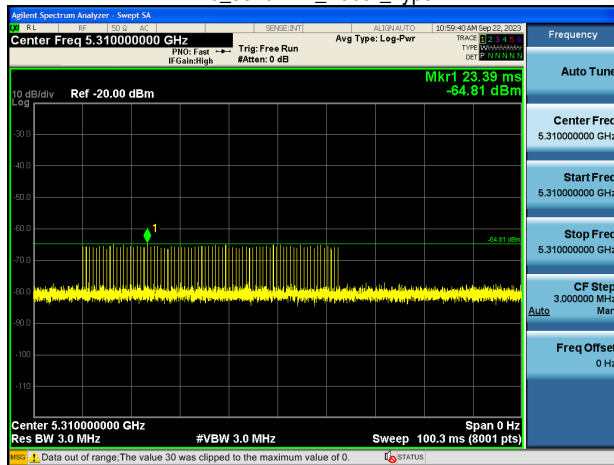
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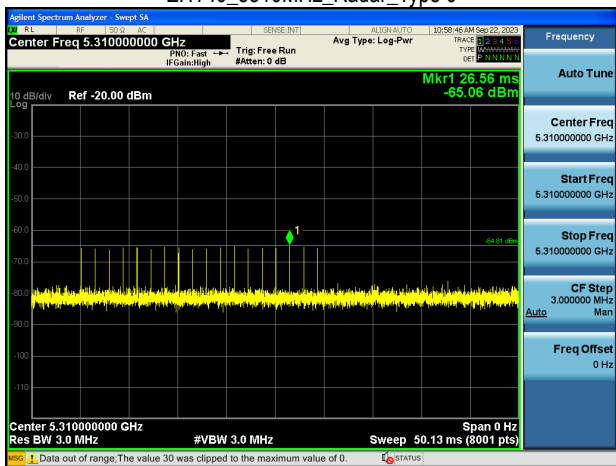
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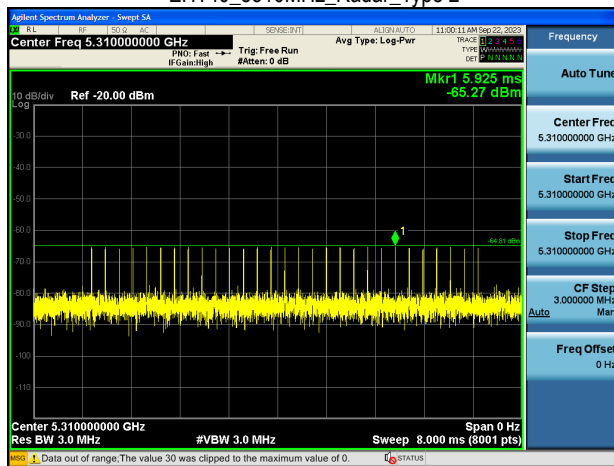
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EHT40_5310MHz_Radar_Type 0



EHT40_5310MHz_Radar_Type 2

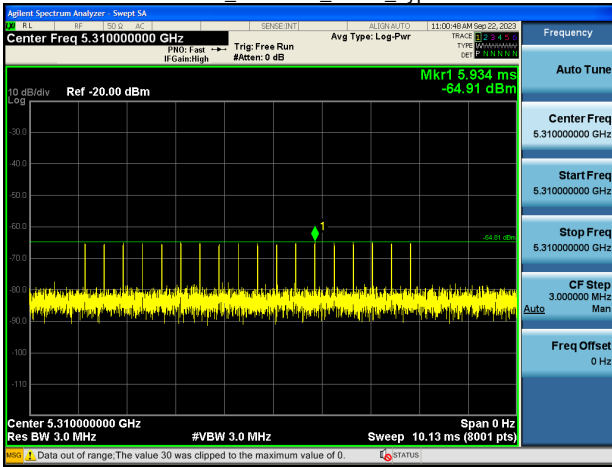


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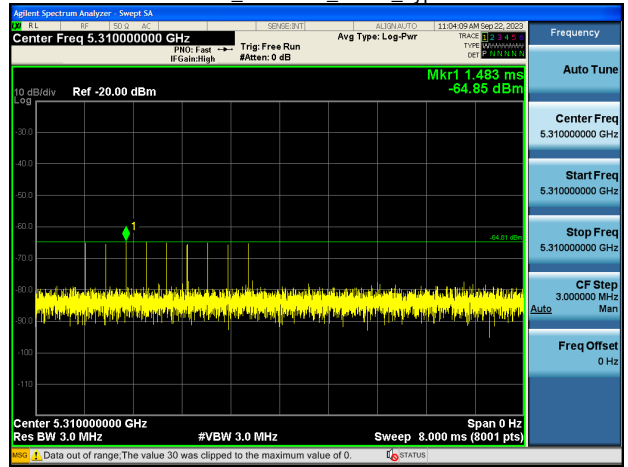
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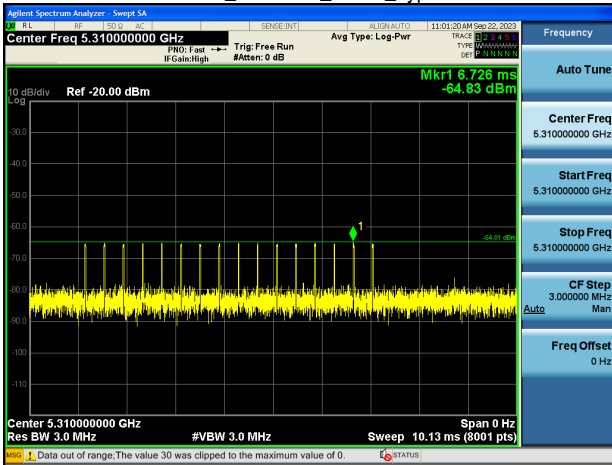
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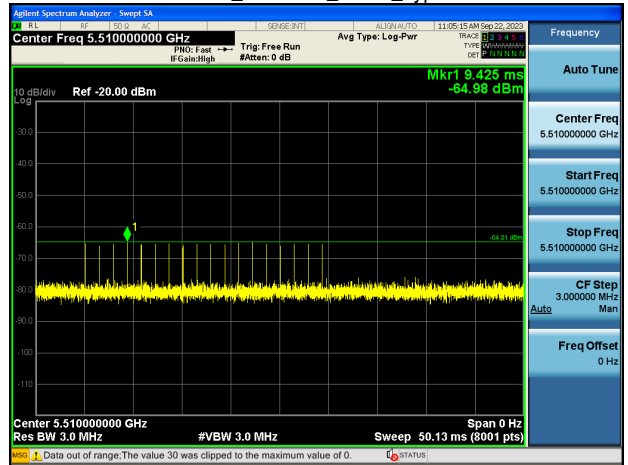
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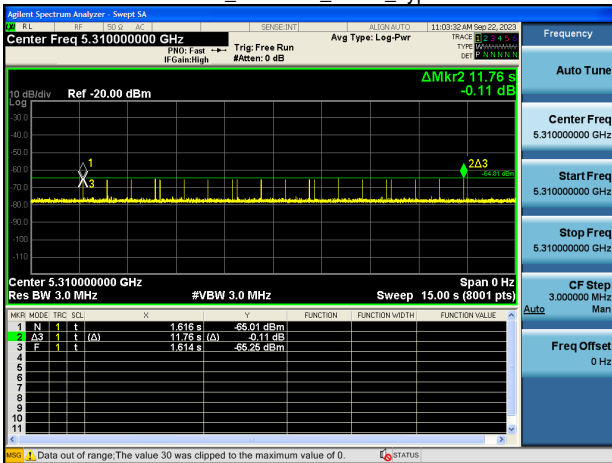
EHT40_5310MHz_Radar_Type 4



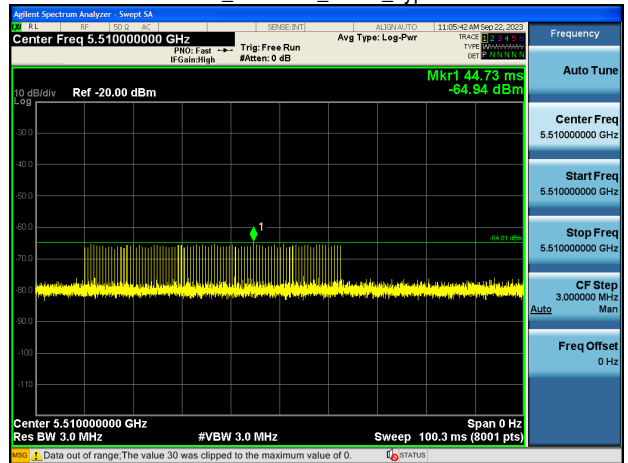
EHT40_5510MHz_Radar_Type 0



EHT40_5310MHz_Radar_Type 5



EHT40_5510MHz_Radar_Type 1-A

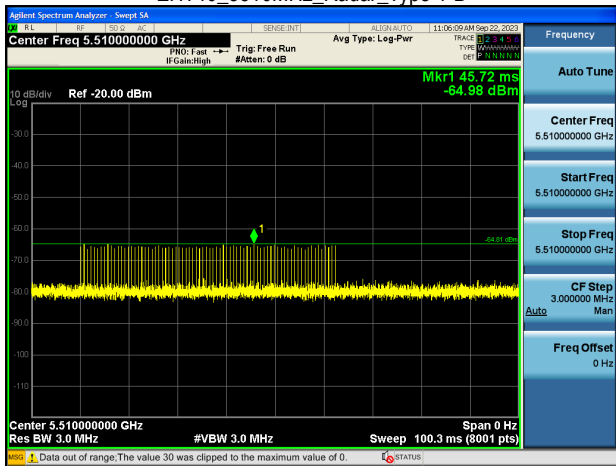


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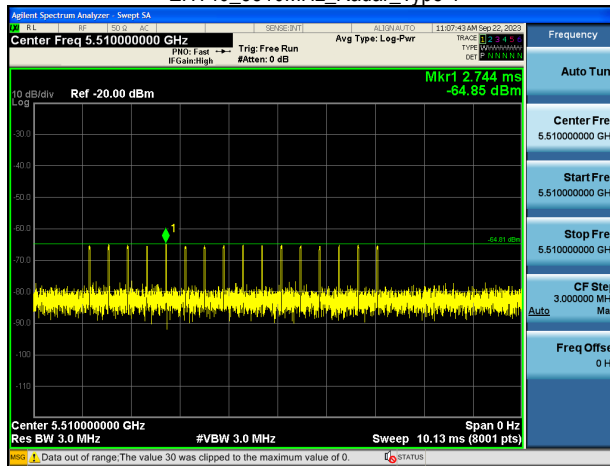
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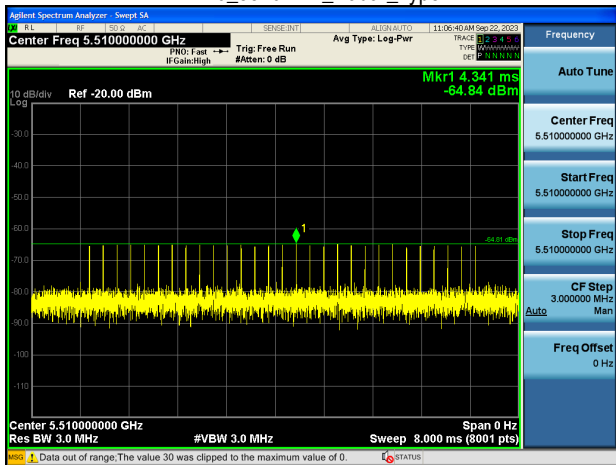
EHT40_5510MHz_Radar_Type 1-B



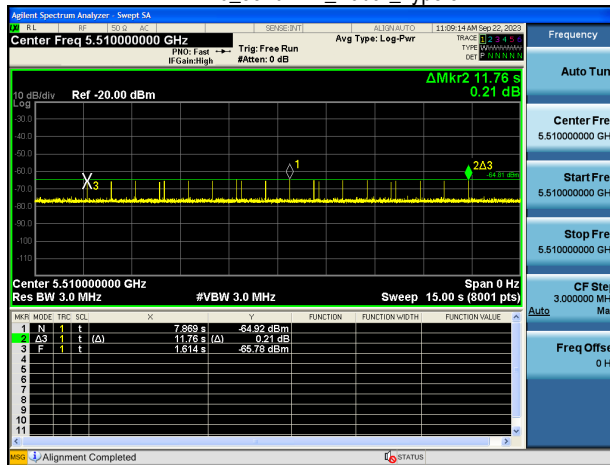
EHT40_5510MHz_Radar_Type 4



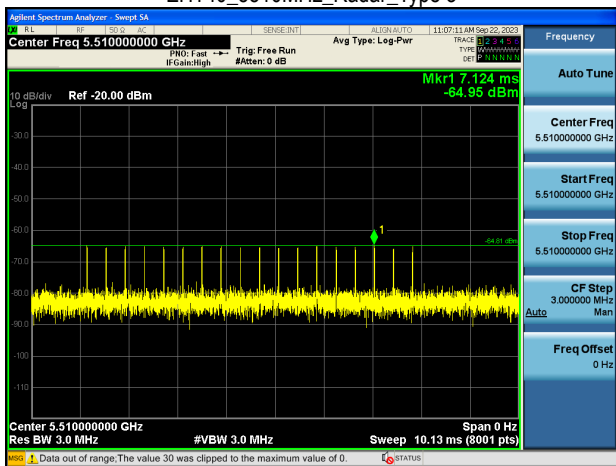
EHT40_5510MHz_Radar_Type 2



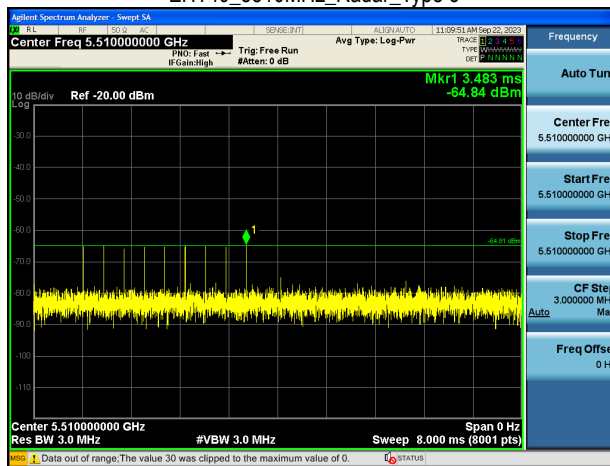
EHT40_5510MHz_Radar_Type 5



EHT40_5510MHz_Radar_Type 3



EHT40_5510MHz_Radar_Type 6

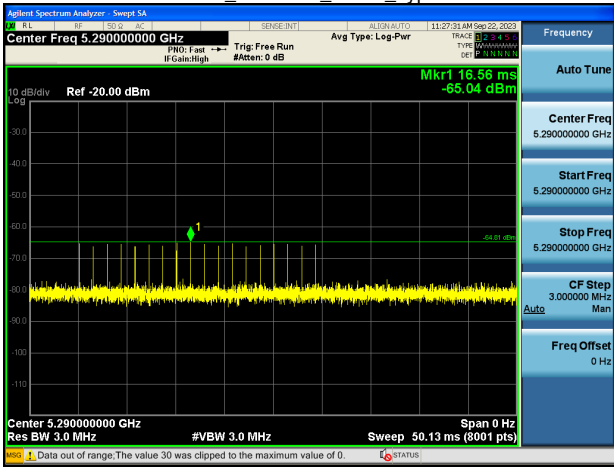


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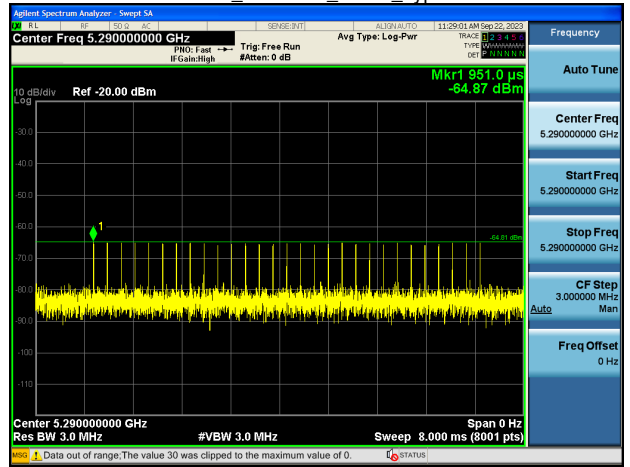
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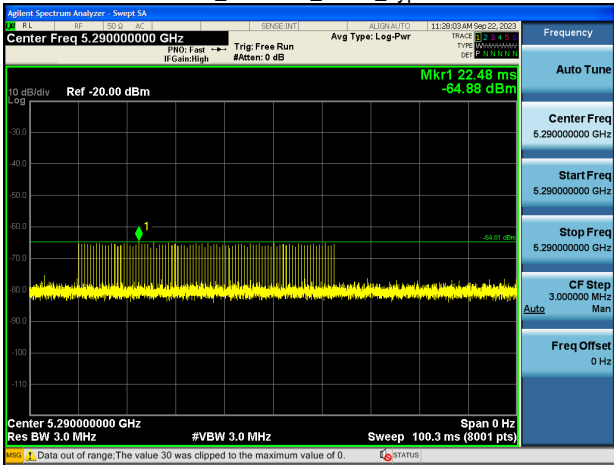
EHT80_5290MHz_Radar_Type 0



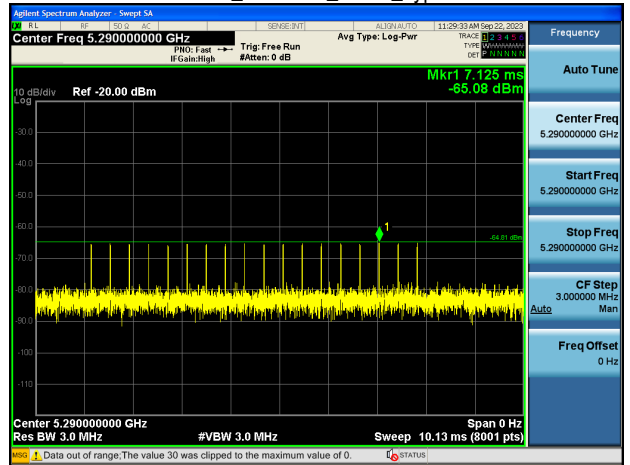
EHT80_5290MHz_Radar_Type 2



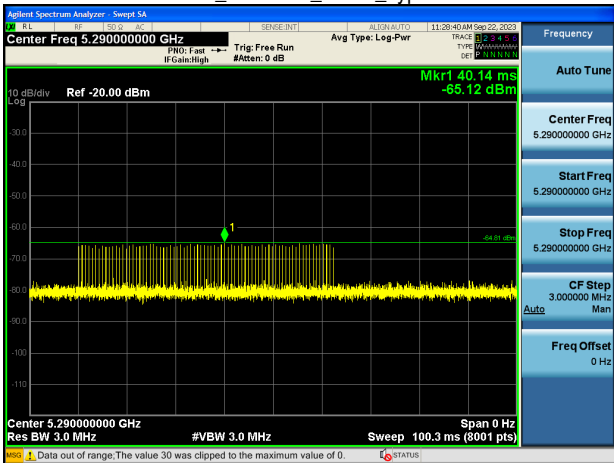
EHT80_5290MHz_Radar_Type 1-A



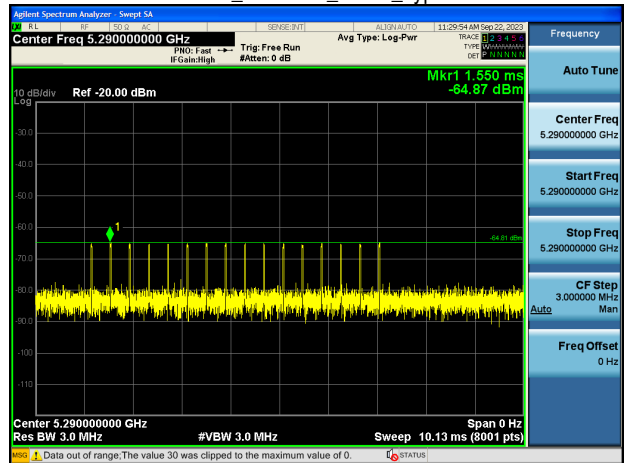
EHT80_5290MHz_Radar_Type 3



EHT80_5290MHz_Radar_Type 1-B



EHT80_5290MHz_Radar_Type 4



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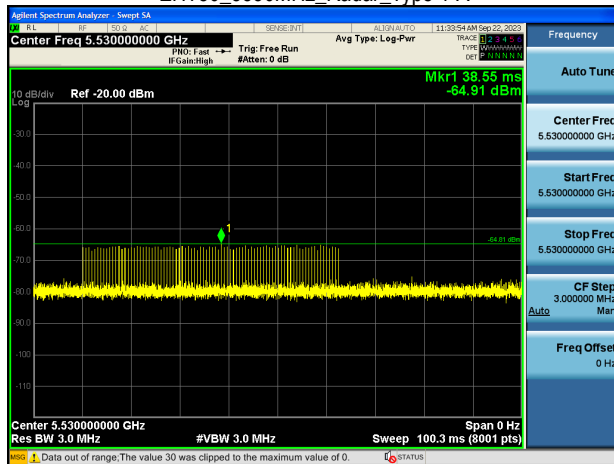
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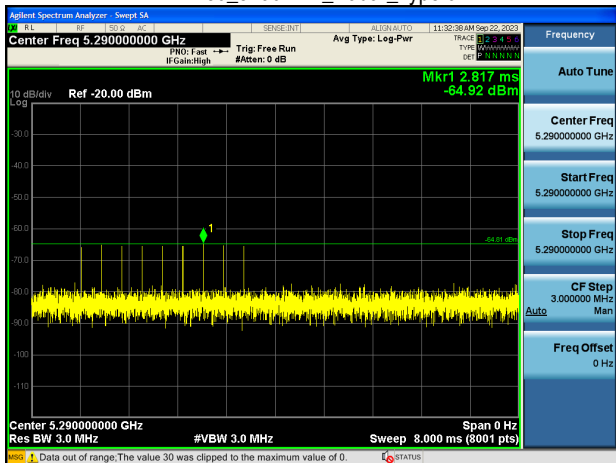
EHT80_5290MHz_Radar_Type 5



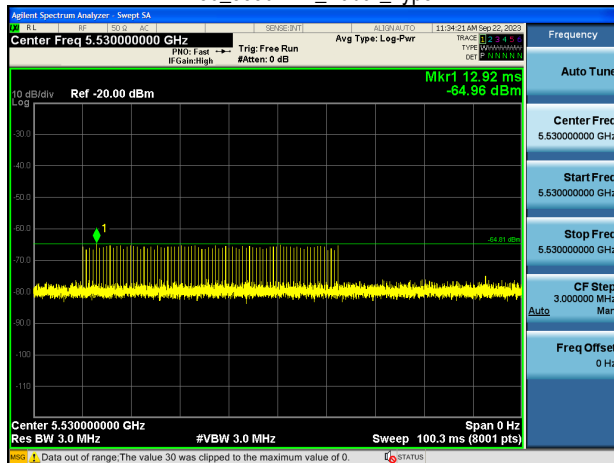
EHT80_5530MHz_Radar_Type 1-A



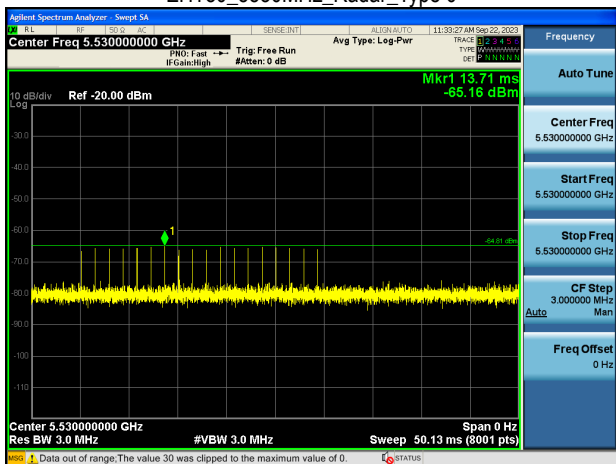
EHT80_5290MHz_Radar_Type 6



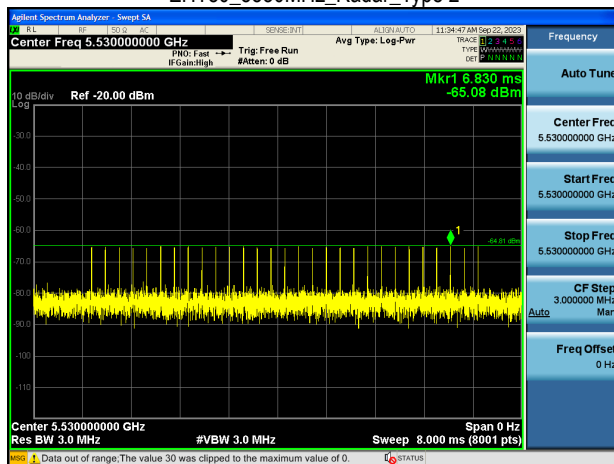
EHT80_5530MHz_Radar_Type 1-B



EHT80_5530MHz_Radar_Type 0



EHT80_5530MHz_Radar_Type 2

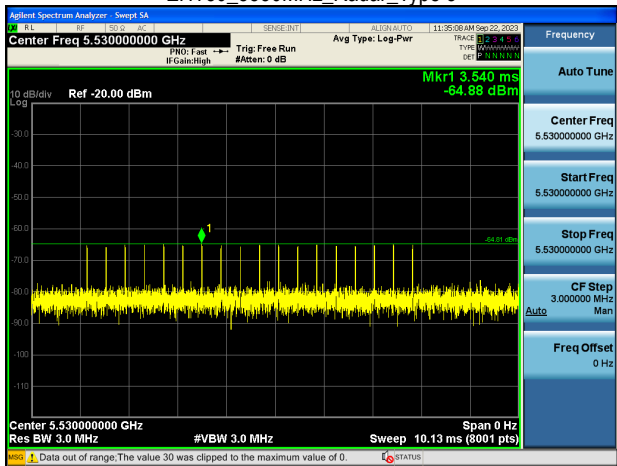


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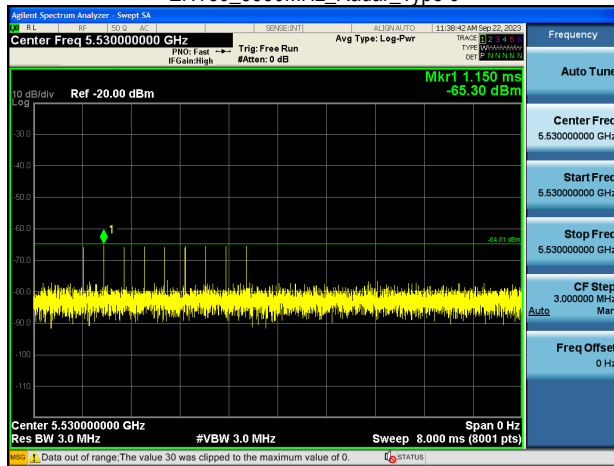
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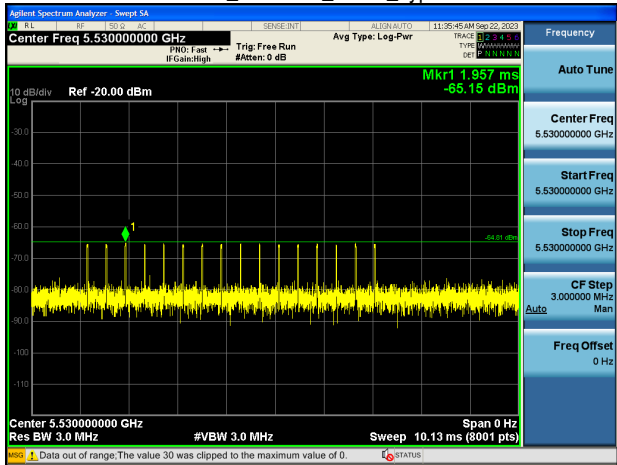
EHT80_5530MHz_Radar_Type 3



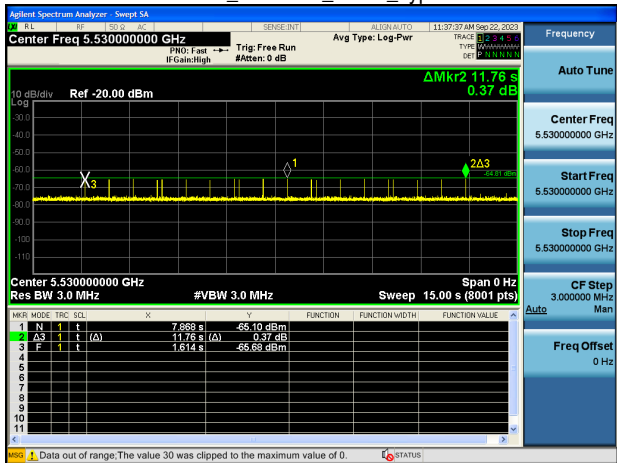
EHT80_5530MHz_Radar_Type 6



EHT80_5530MHz_Radar_Type 4



EHT80_5530MHz_Radar_Type 5



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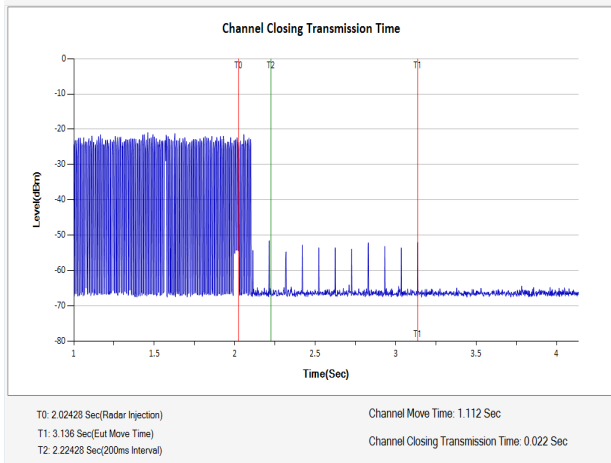
10 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME MEASUREMENT (RADAR TYPE 0)

Channel Shutdown Result				
Minimum of Peak Antenna Gain			2.19	
Detection Threshold Level (dBm)			- 64 + Minimum of Peak Antenna Gain - 3= - 64. 81	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms) 200ms~10sec	Channel Move Time(s)
EHT160	5250	Type 0	22	1.112
EHT160	5570	Type 0	24	1.022
Limit			60	10
Result			Complied	

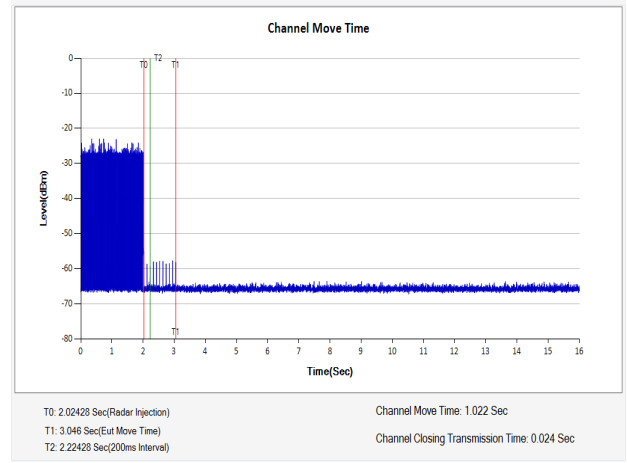
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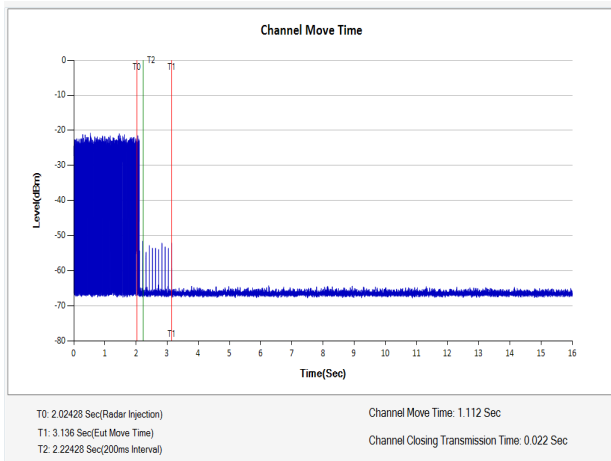
EHT160_5250MHz_Channel Close Time



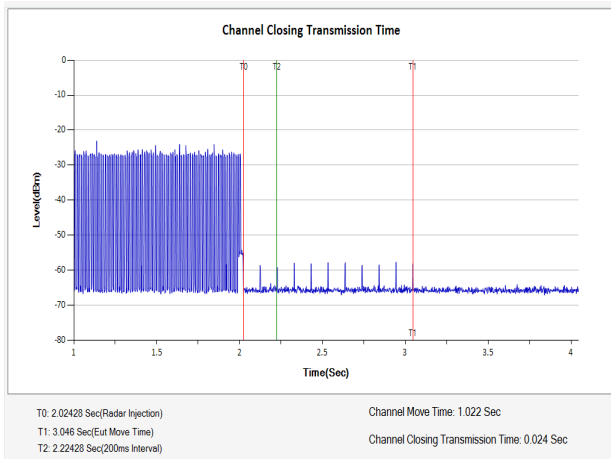
EHT160_5570MHz_Channel Move Time



EHT160_5250MHz_Channel Move Time



EHT160_5570MHz_Channel Close Time

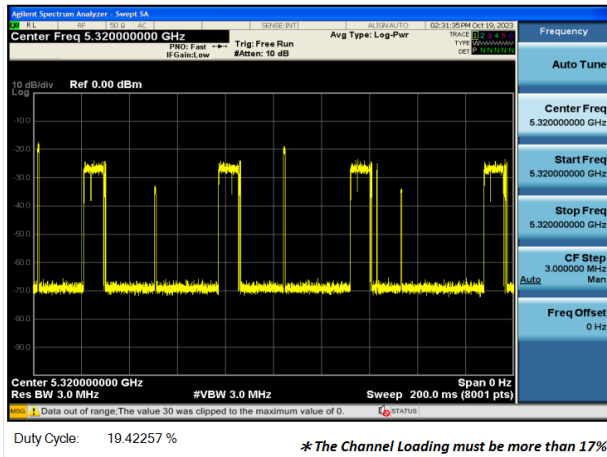


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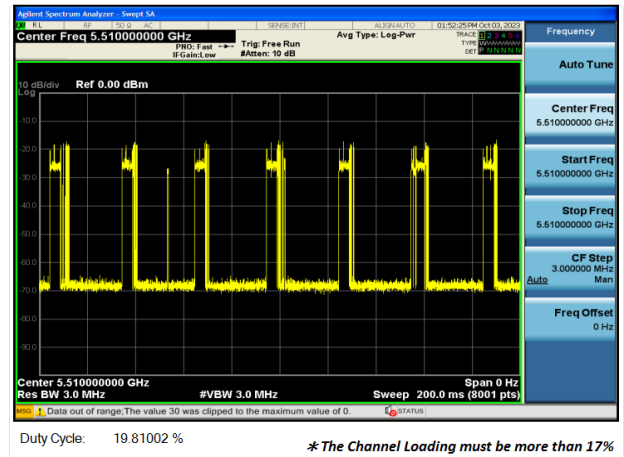
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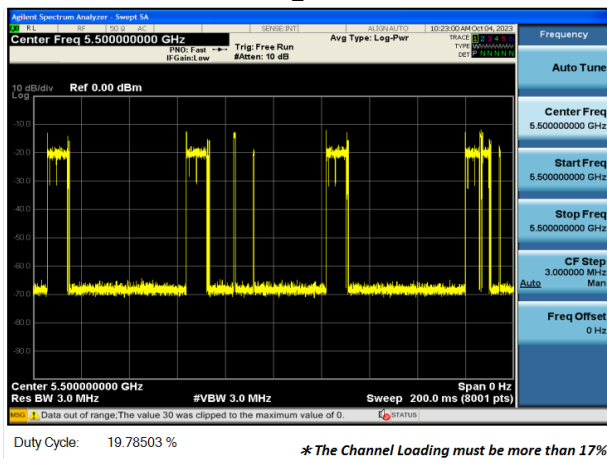
EHT20_5320MHz



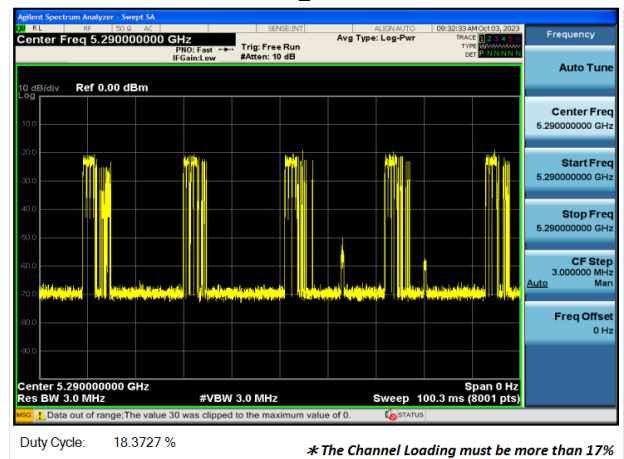
EHT40_5510MHz



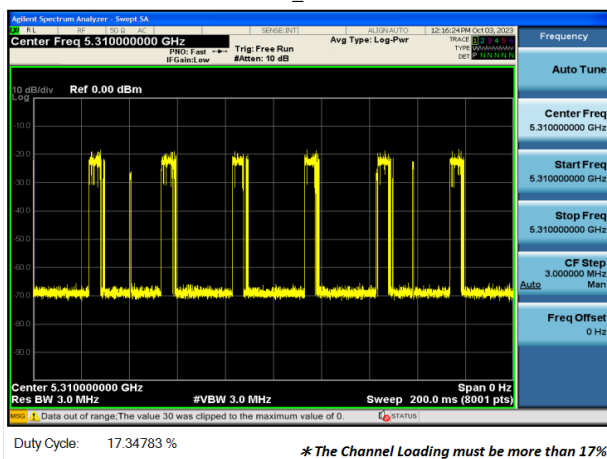
EHT20_5500MHz



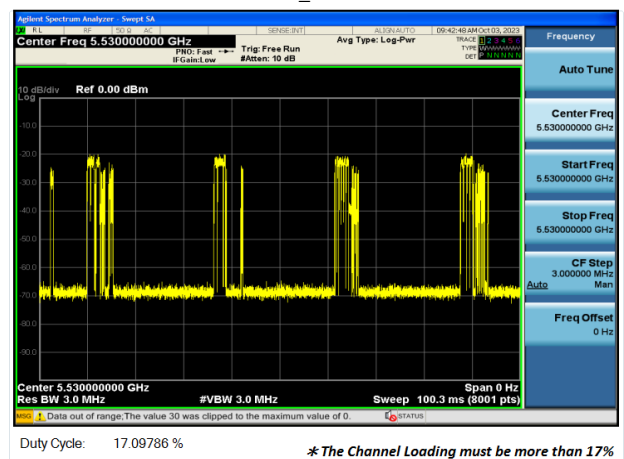
EHT80_5290MHz



EHT40_5310MHz



EHT80_5530MHz



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