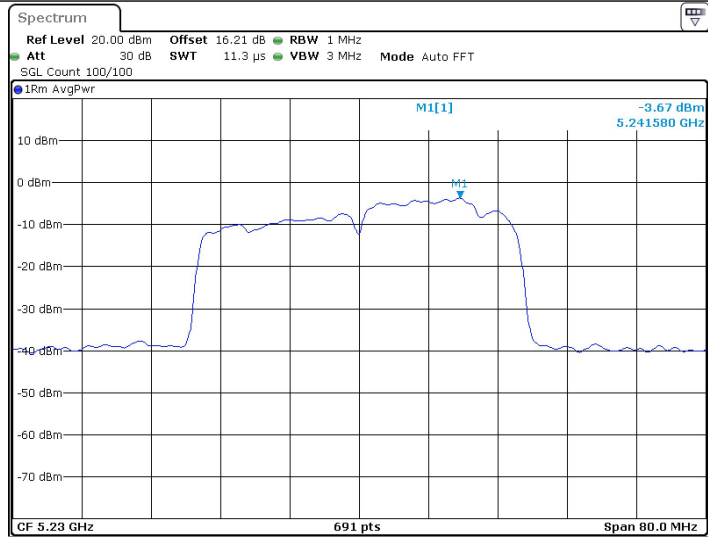
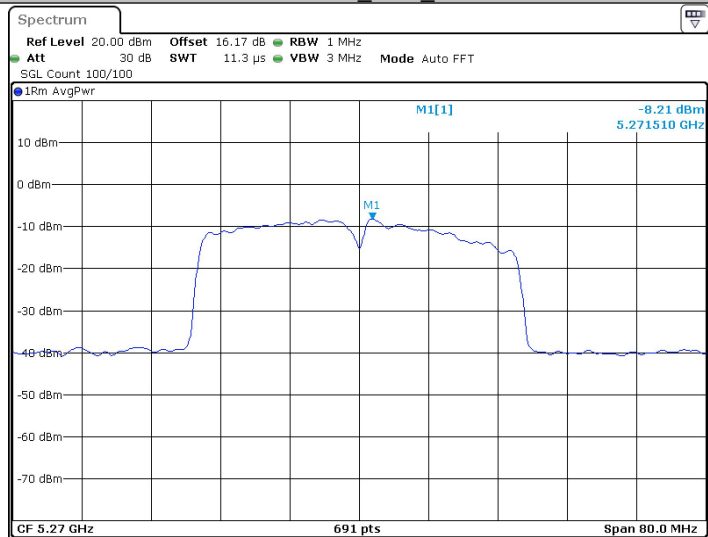


11N40SISO_Ant1_5230



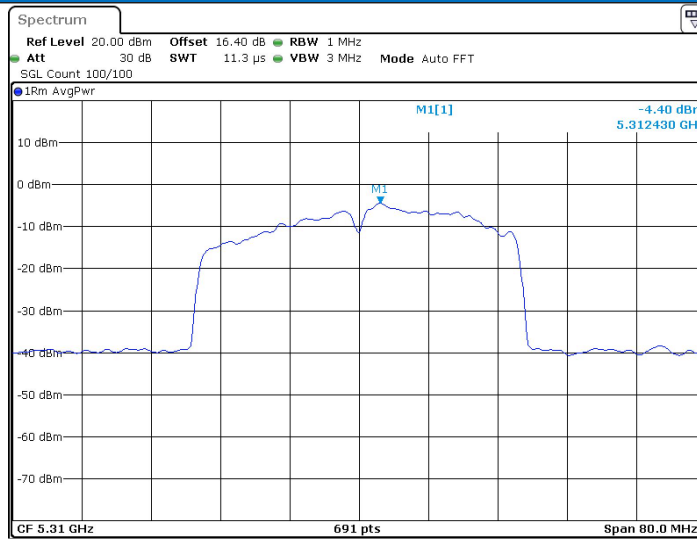
Date: 6 MAR 2025 12:09:19

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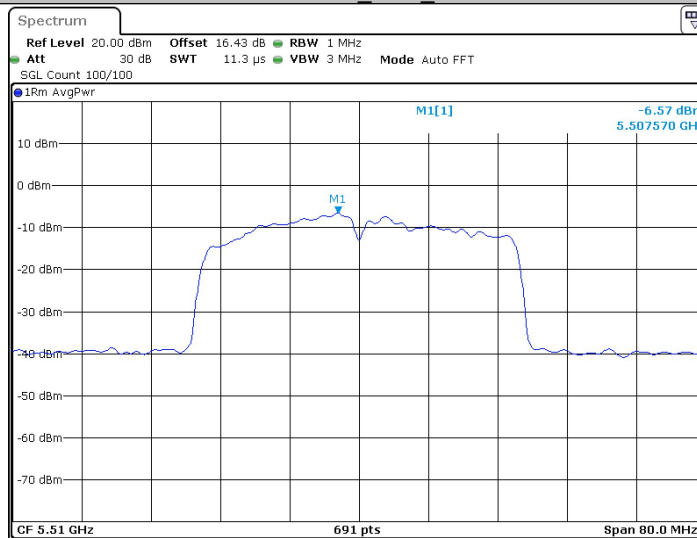
Date: 6 MAR 2025 12:10:33

11N40SISO_Ant1_5310



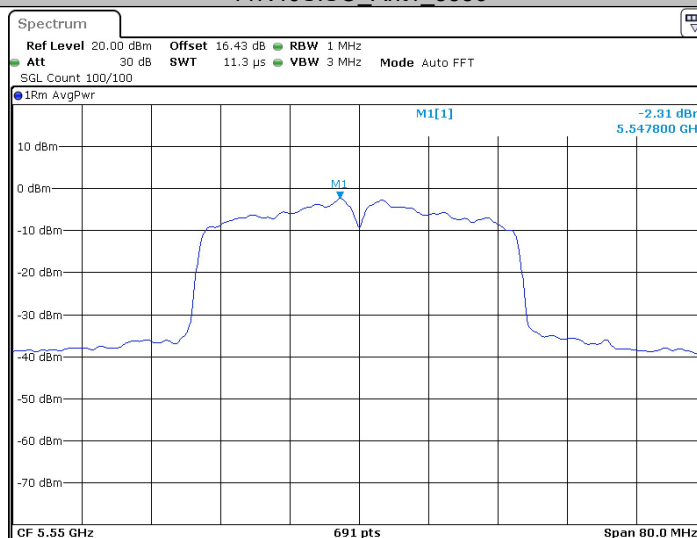
Date: 6 MAR 2025 12:11:49

11N40SISO_Ant1_5510



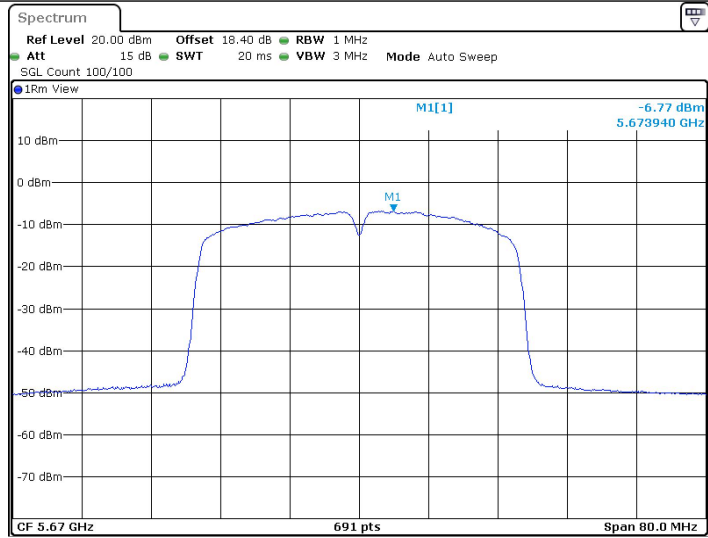
Date: 6 MAR 2025 12:14:03

11N40SISO_Ant1_5550

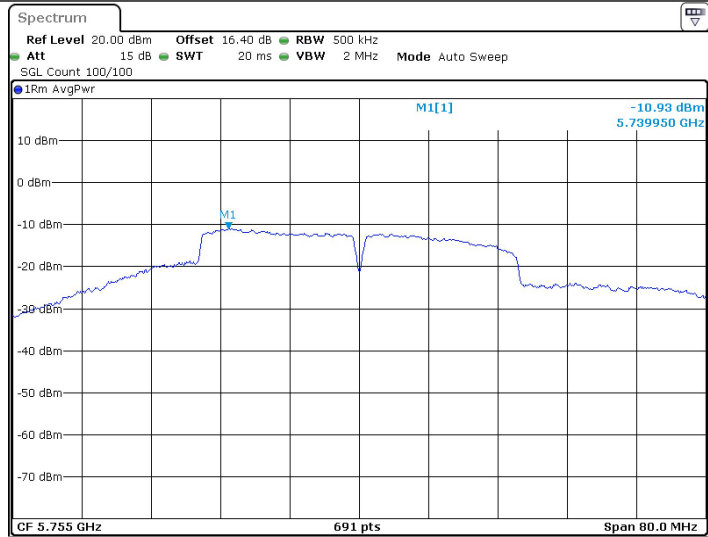


Date: 6 MAR 2025 13:48:15

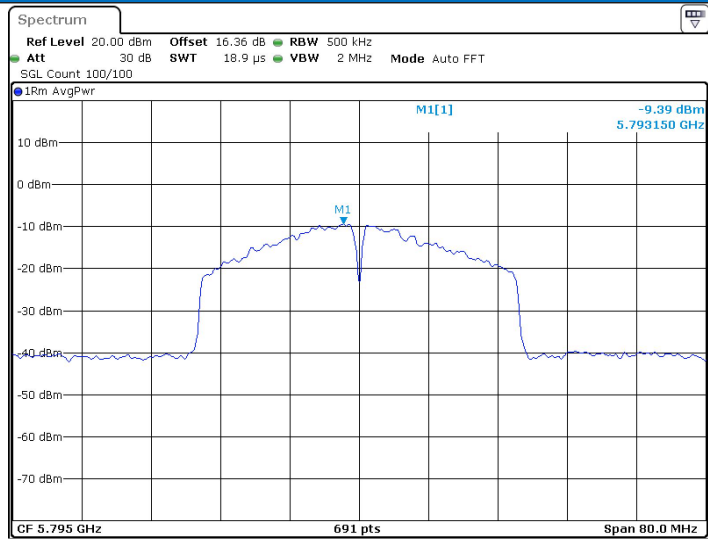
11N40SISO_Ant1_5670



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Date: 6 MAR 2025 13:53:40

Appendix D): Band Edge Measurements

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

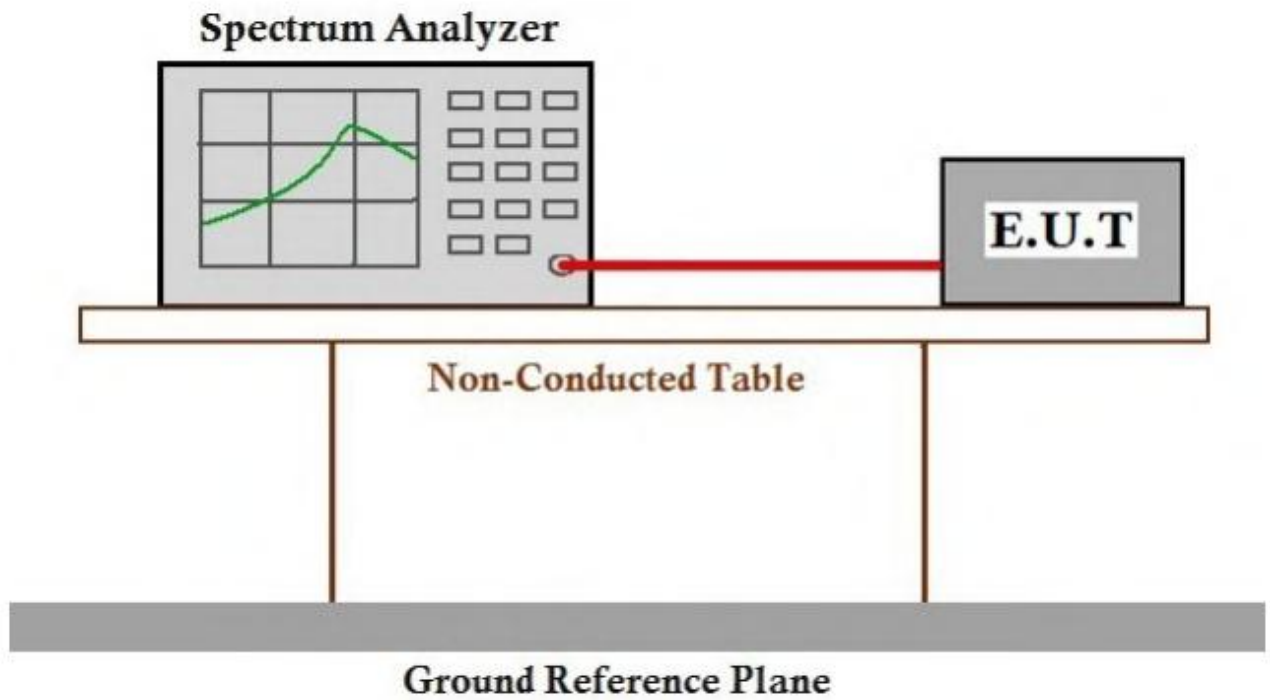
Test Procedure:

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO

Limit:

For transmitters operating in the 5.15-5.25 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.25-5.35 GHz band:	All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.47-5.725 GHz band:	All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).
For transmitters operating in the 5.725-5.85 GHz band:	(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

Test Setup Diagram



7.1.1 Test Result B1/2/3

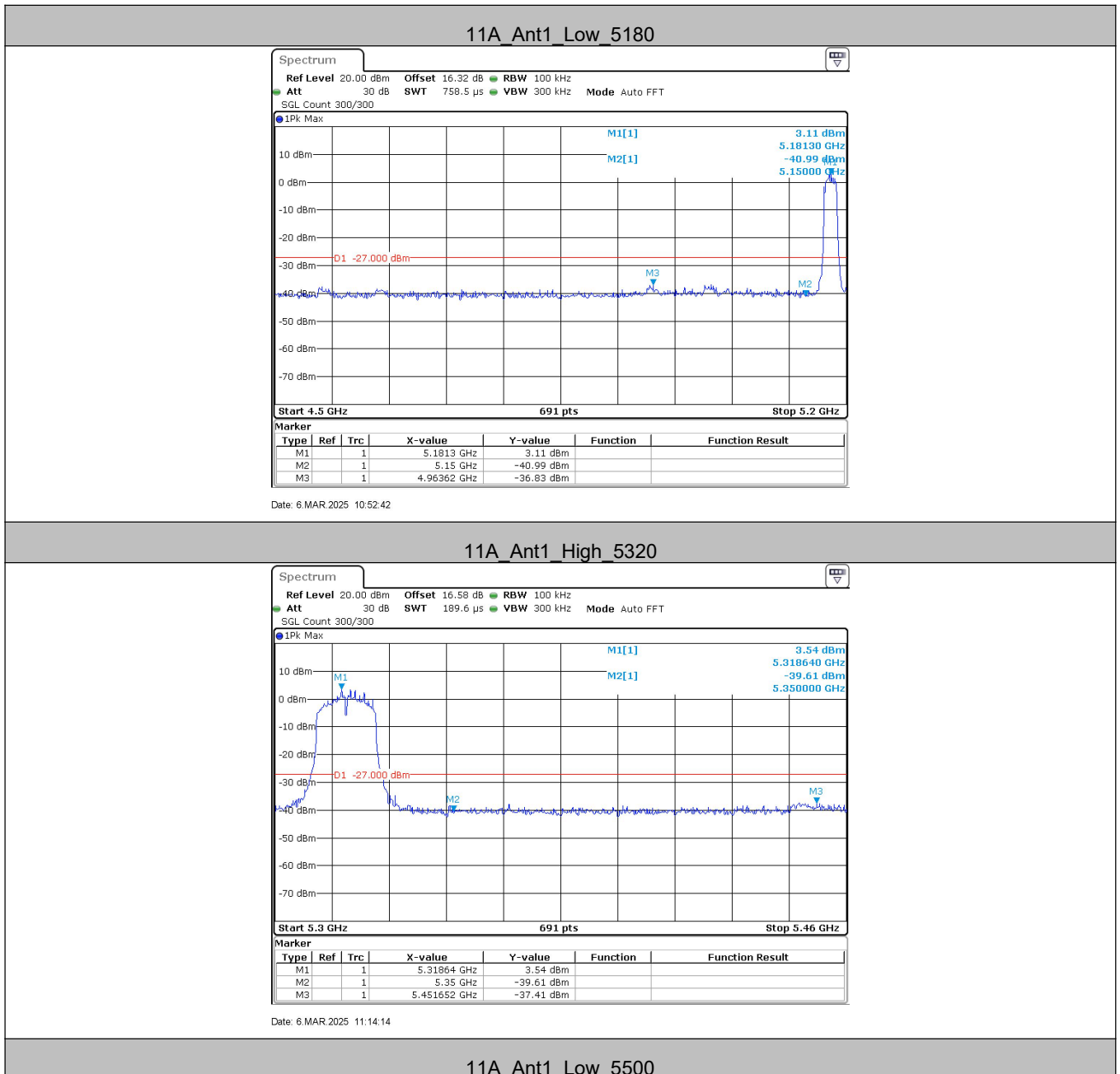
TestMode	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Low	5180	-36.83	≤ -27	PASS
	High	5320	-37.41	≤ -27	PASS
	Low	5500	-36.82	≤ -27	PASS
	High	5700	-49.95	≤ -27	PASS
11N20SISO	Low	5180	-36.81	≤ -27	PASS
	High	5320	-36.76	≤ -27	PASS
	Low	5500	-36.68	≤ -27	PASS
	High	5700	-47.35	≤ -27	PASS
11N40SISO	Low	5190	-36.83	≤ -27	PASS
	High	5310	-36.24	≤ -27	PASS
	Low	5510	-36.69	≤ -27	PASS
	High	5670	-37.41	≤ -27	PASS

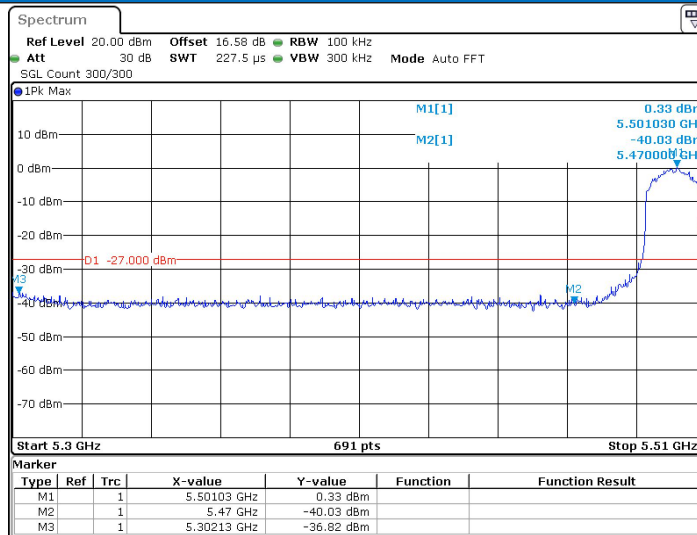
7.1.2 Test Result B4

TestMode	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Low	5745	5650~5700	-40.03	≤ -26.63	PASS
			5700~5720	-37.83	≤ 10.28	PASS
			5720~5725	-38.98	≤ 15.98	PASS
			5760~5650	-39.06	≤ -27	PASS
	High	5825	5850~5855	-28.16	≤ 15.65	PASS
			5855~5875	-27.62	≤ 15.06	PASS
			5875~5925	-38.21	≤ -26.87	PASS
			5925~5935	-37.34	≤ -27	PASS
11N20SISO	Low	5745	5650~5700	-40.19	≤ -26.75	PASS
			5700~5720	-25.59	≤ 15.46	PASS
			5720~5725	-25.74	≤ 17.12	PASS
			5760~5650	-39.12	≤ -27	PASS
	High	5825	5850~5855	-26.59	≤ 16.99	PASS
			5855~5875	-26.23	≤ 15.50	PASS
			5875~5925	-37.31	≤ -26.73	PASS
			5925~5935	-36.79	≤ -27	PASS
11N40SISO	Low	5755	5650~5700	-41.72	≤ -26.36	PASS
			5700~5720	-20.28	≤ 15.58	PASS

			5720~5725	-20.58	≤15.90	PASS
			5780~5650	-39.42	≤-27	PASS
	High	5795	5850~5855	-38.67	≤15.85	PASS
			5855~5875	-37.09	≤10.14	PASS
			5875~5925	-36.23	≤-26.08	PASS
			5925~5935	-36.84	≤-27	PASS

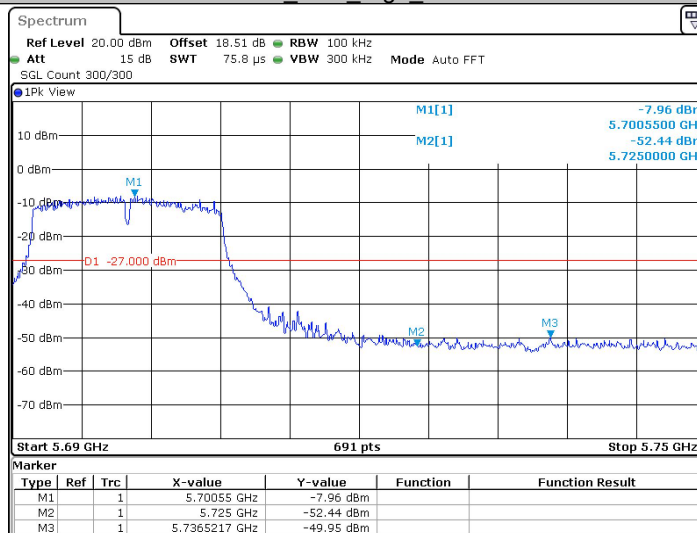
7.1.3 Test Graphs B1/2/3





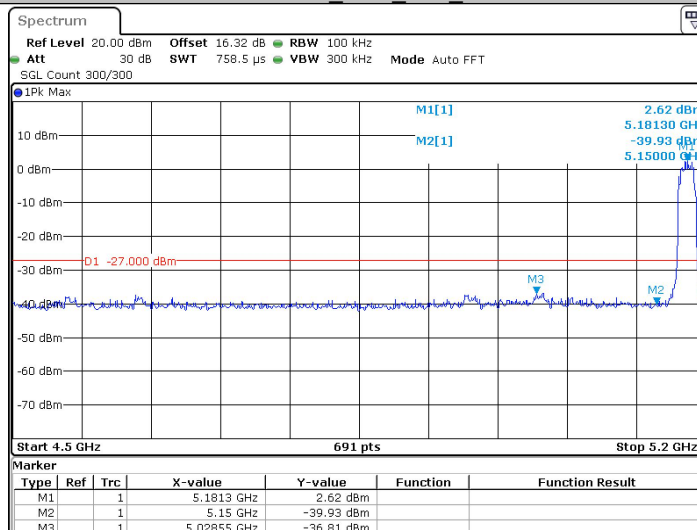
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11A Ant1_High_5700



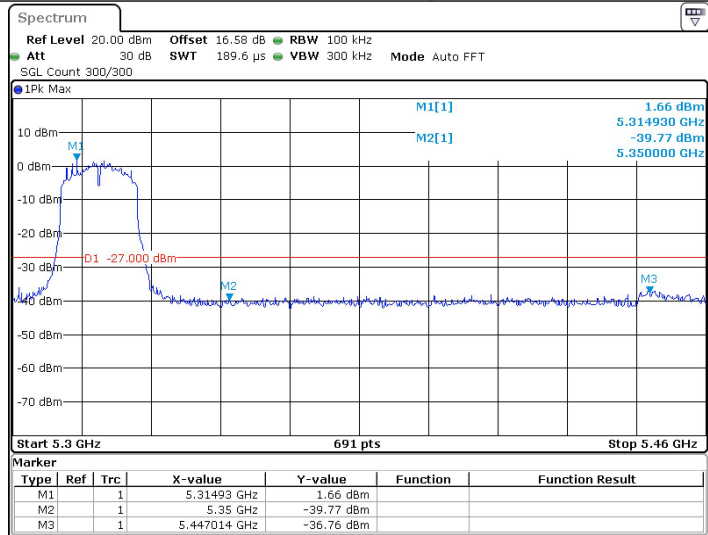
Date: 5 JUN 2025 10:37:18

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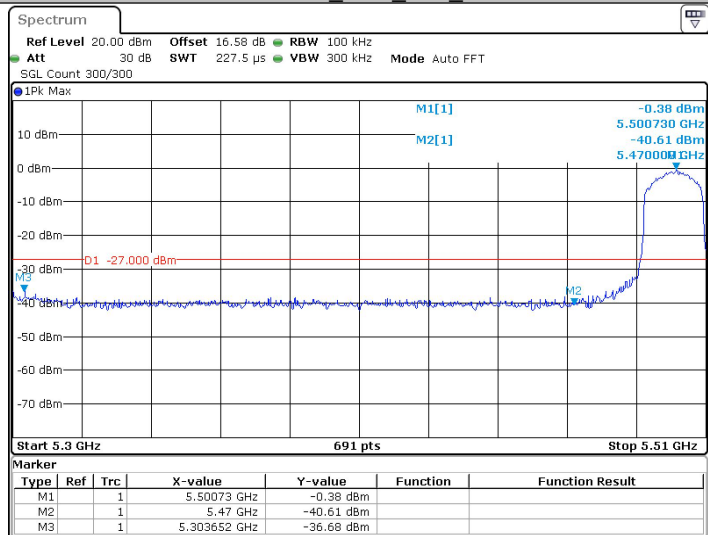
Date: 6 MAR 2025 11:38:03

11N20SISO_Ant1_High_5320



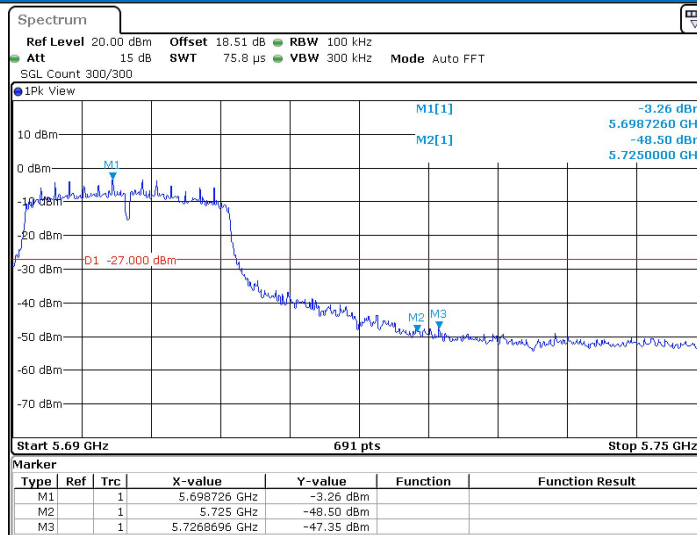
Date: 6 MAR 2025 11:51:54

11N20SISO_Ant1_Low_5500



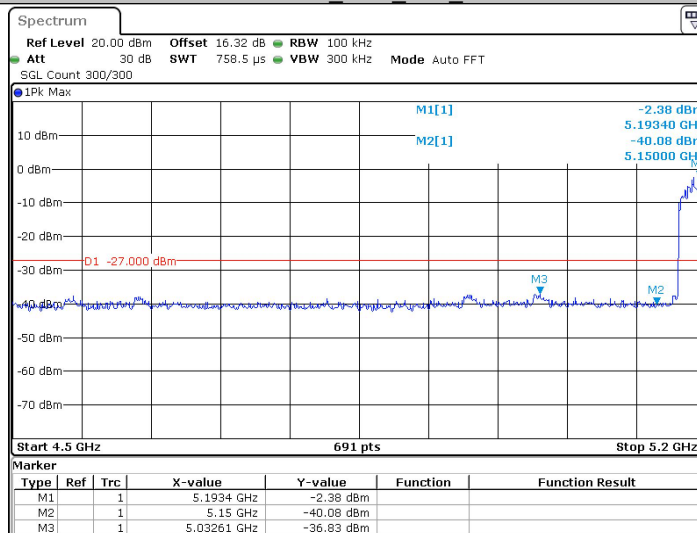
Date: 6 MAR 2025 11:53:33

11N20SISO_Ant1_High_5700



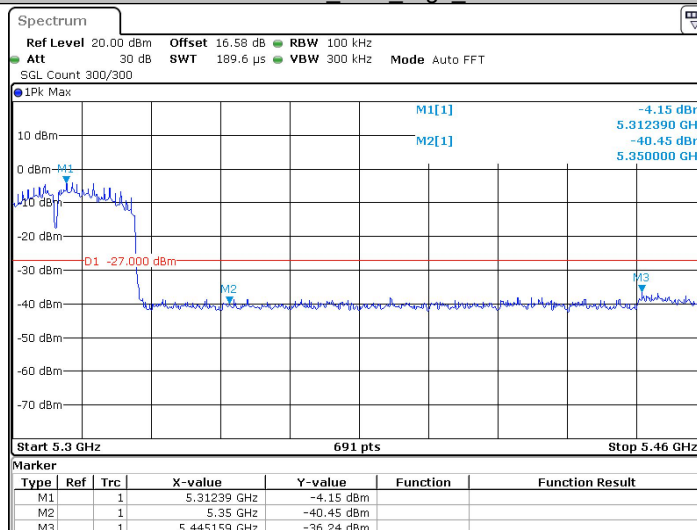
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11N40SISO_Ant1_Low_5190



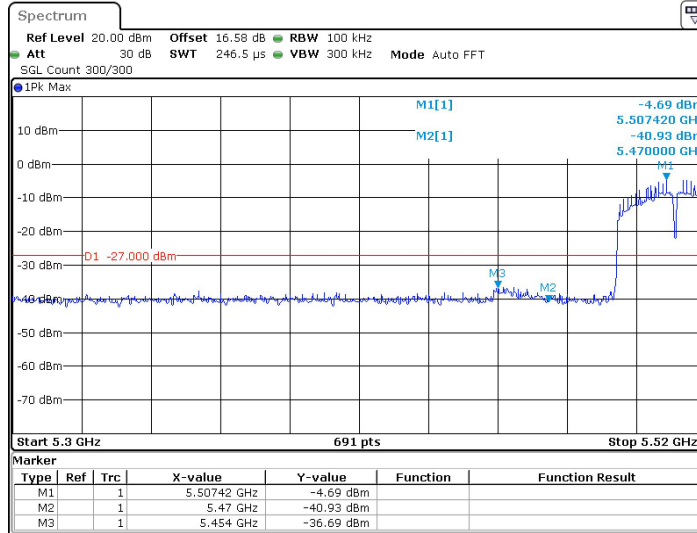
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11N40SISO_Ant1_High_5310



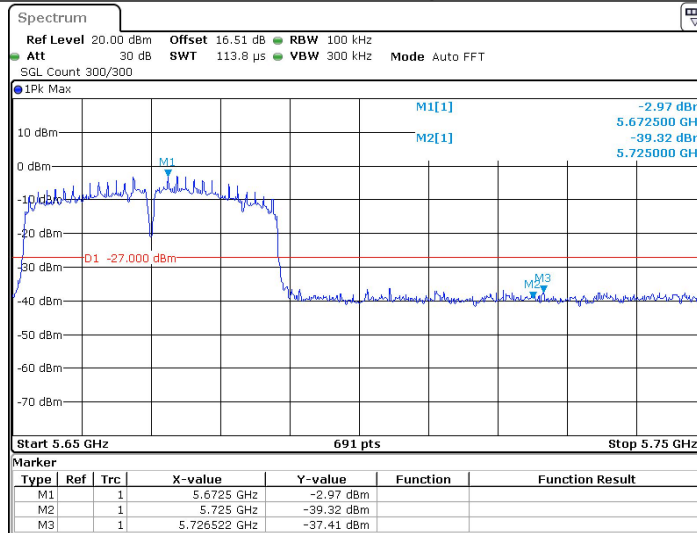
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11N40SISO_Ant1_Low_5510



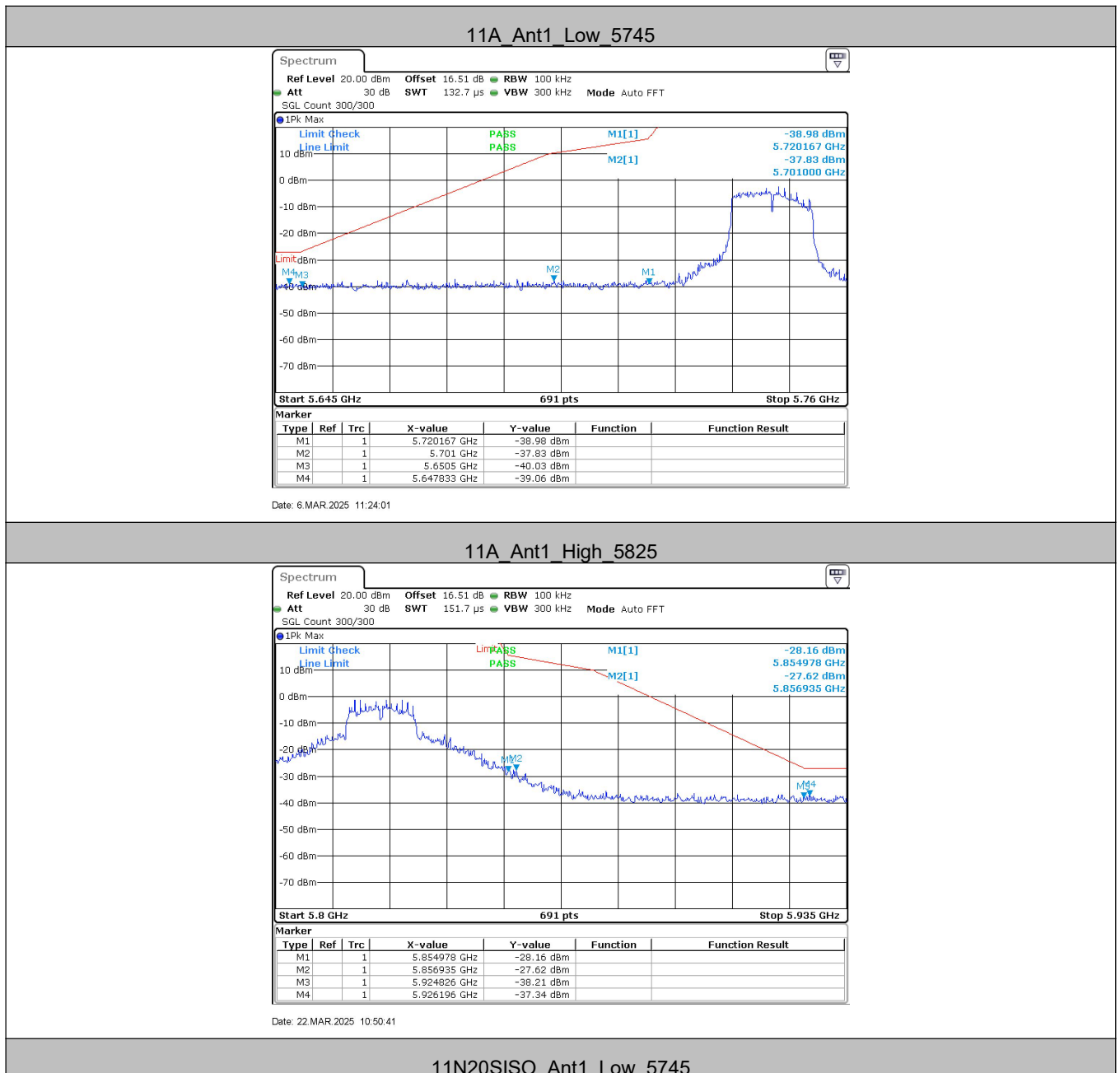
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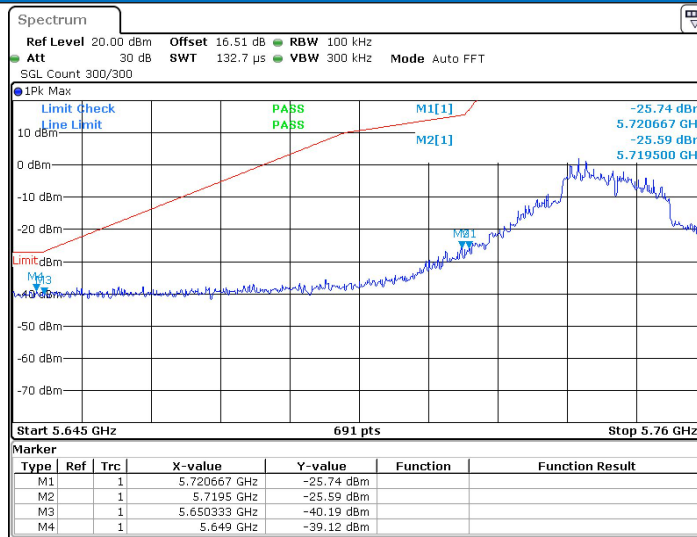
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Date: 6 MAR 2025 13:49:46

7.1.4 Test Graphs B4





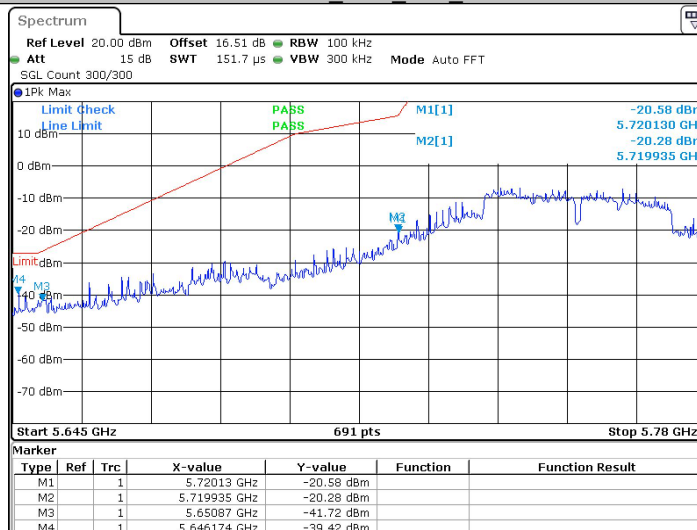
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11N20SISO_Ant1_High_5825



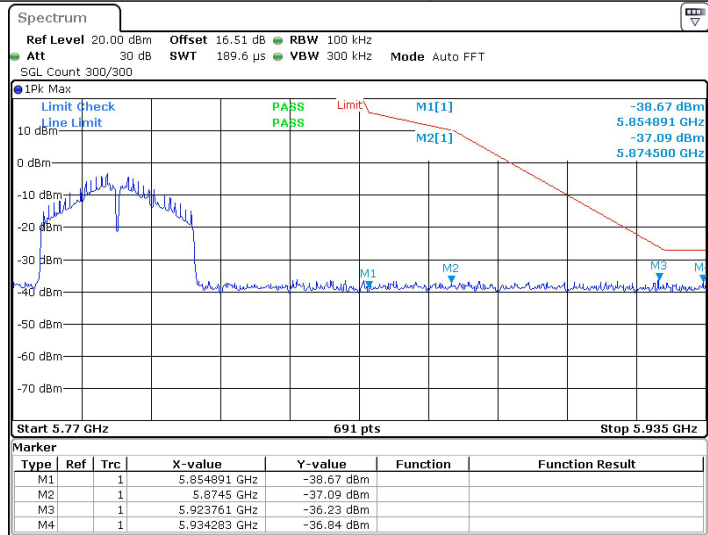
Date: 22.MAR.2025 10:53:07

11N40SISO_Ant1_Low_5755



Date: 22.MAR.2025 11:02:15

11N40SISO_Ant1_High_5795



Date: 6 MAR 2025 13:53:50

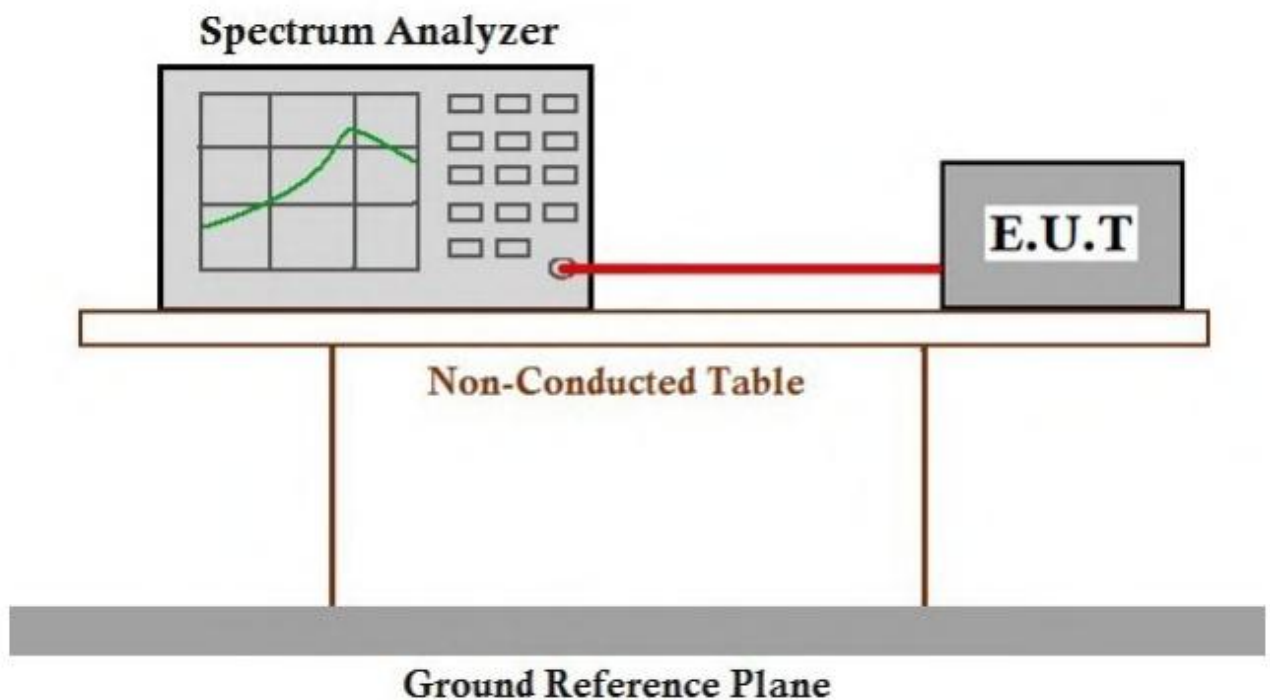
Appendix E): Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

Limit: The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

Test Setup Diagram



Measurement Data

Frequency Stability Versus Temp.			
Operating Frequency: 5240 MHz			
Temp	Voltage	Measured Frequency	Frequency Drift
(°C)		(MHz)	(ppm)
50	VN	5240.03	5.72519
40		5240.02	3.81679
30		5240.01	1.90840
20		5240.02	3.81679
10		5240.02	3.81679
0		5240.01	1.90840
-10		5240.02	3.81679
-30		5240.03	5.72519

Frequency Stability Versus Temp.			
Operating Frequency: 5210 MHz			
Temp.	Voltage	Measured Frequency	Frequency Drift
		(MHz)	(ppm)
TN	VL	5210.00	0.00000
	VN	5210.03	5.75816
	VH	5210.02	3.83877

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

Appendix F): Antenna Requirement

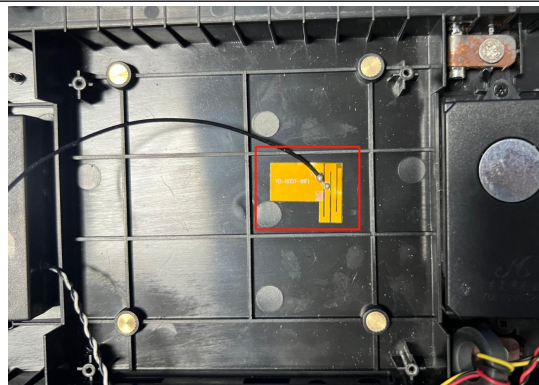
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.407(a)(1) (2) requirement:

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling .
This is either permanently attachment or a unique coupling that satisfies the requirement.

Appendix G): Operation in the absence of information to the transmit

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Operation in the absence of information to the transmit

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)