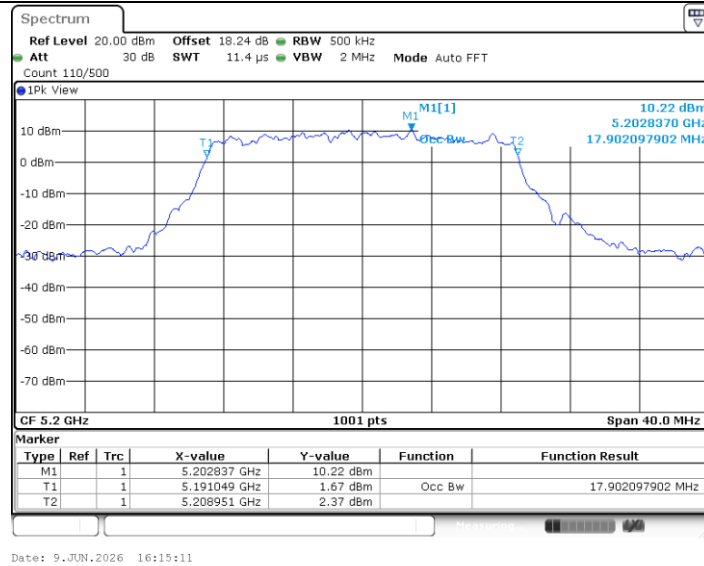
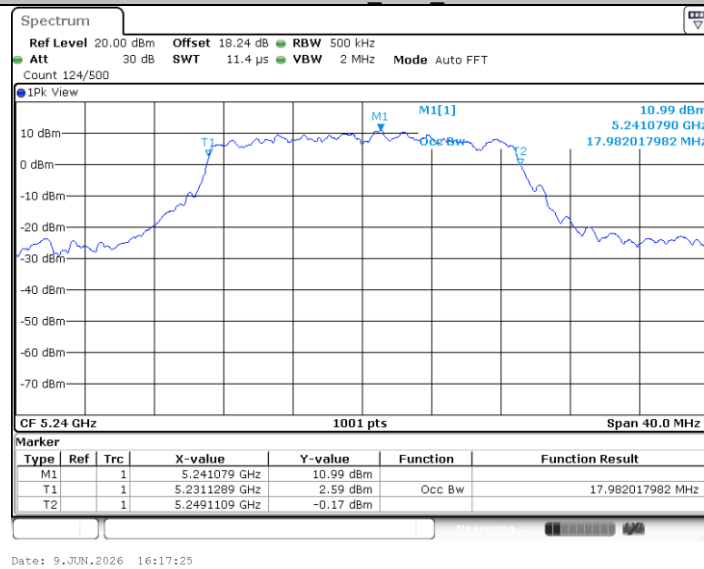
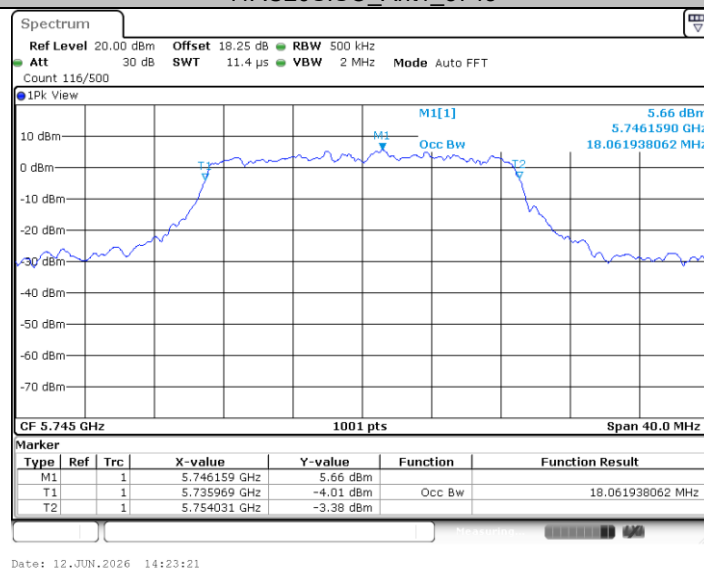




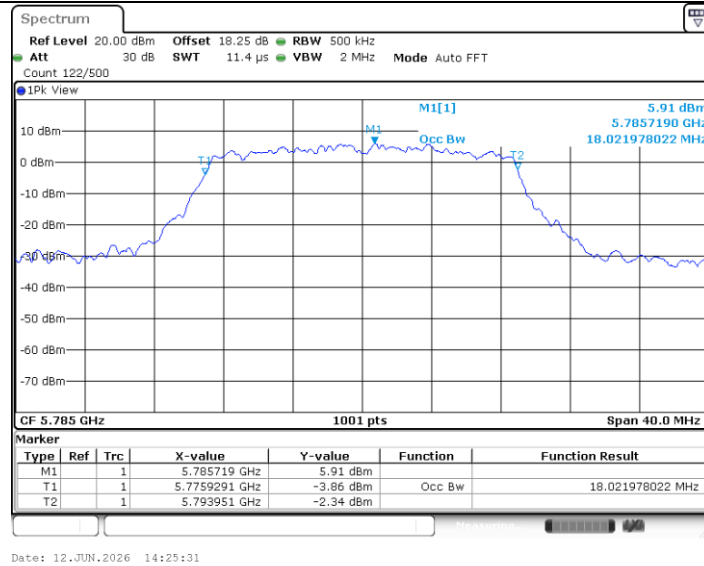
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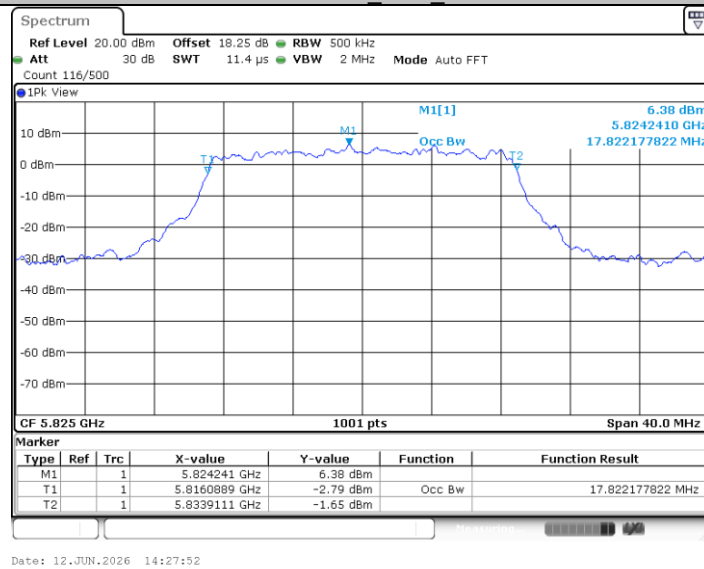
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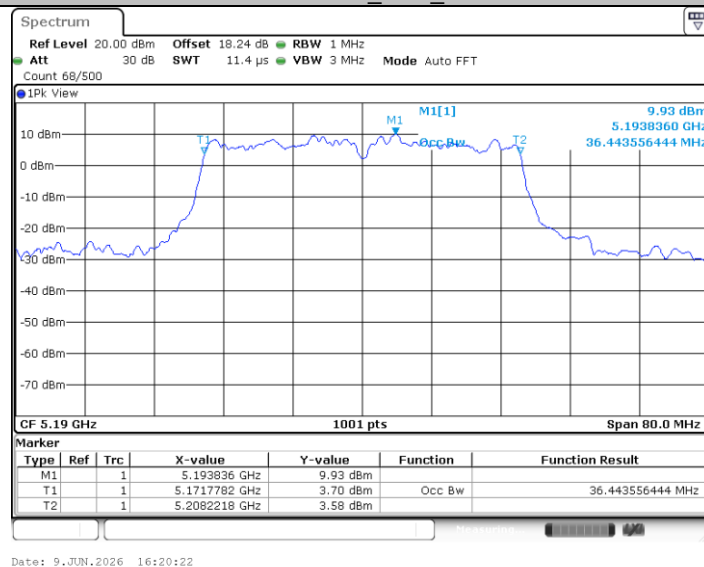
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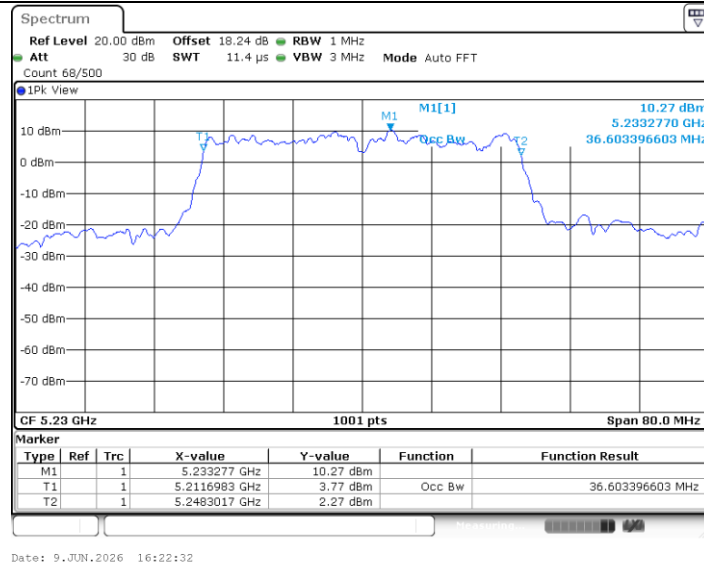
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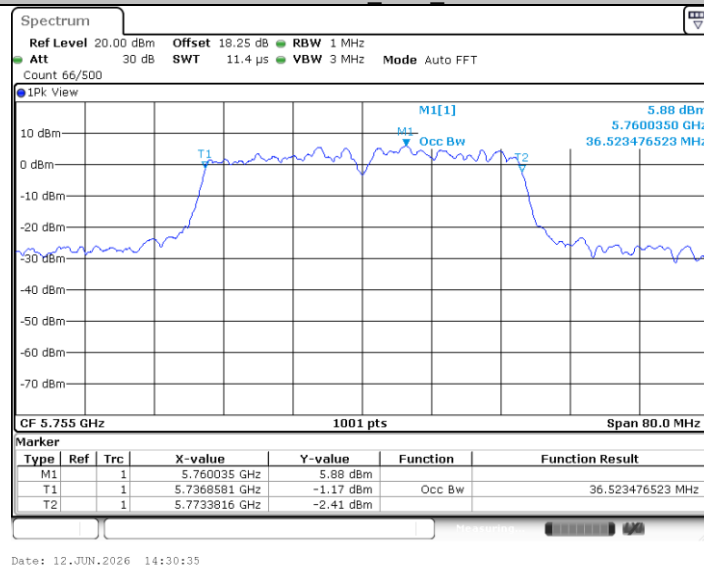
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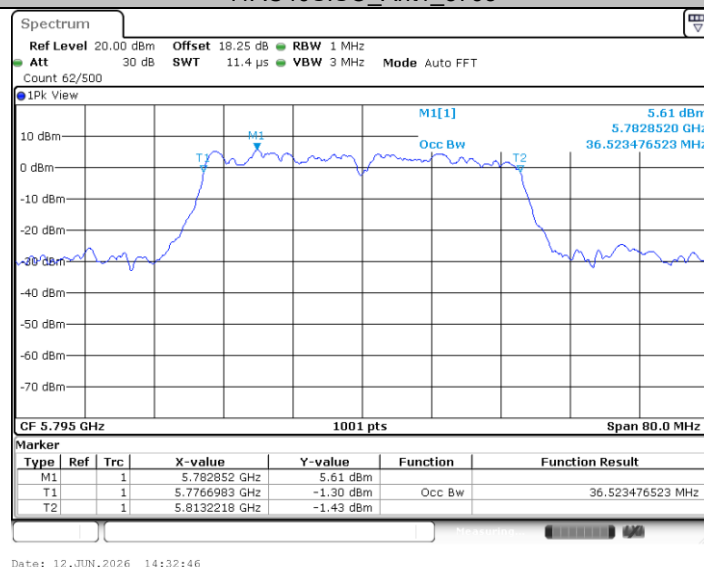
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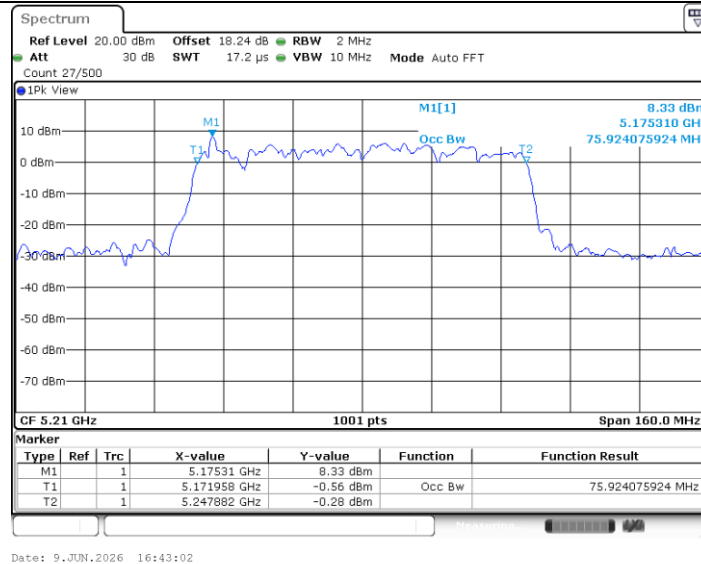
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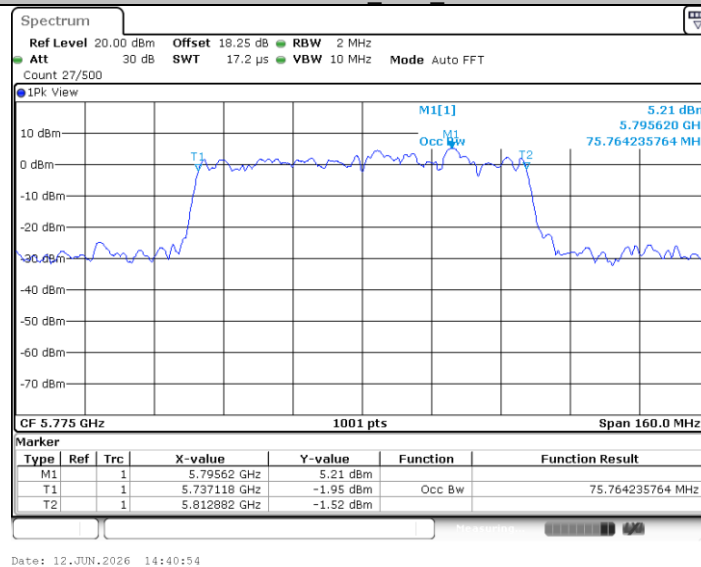
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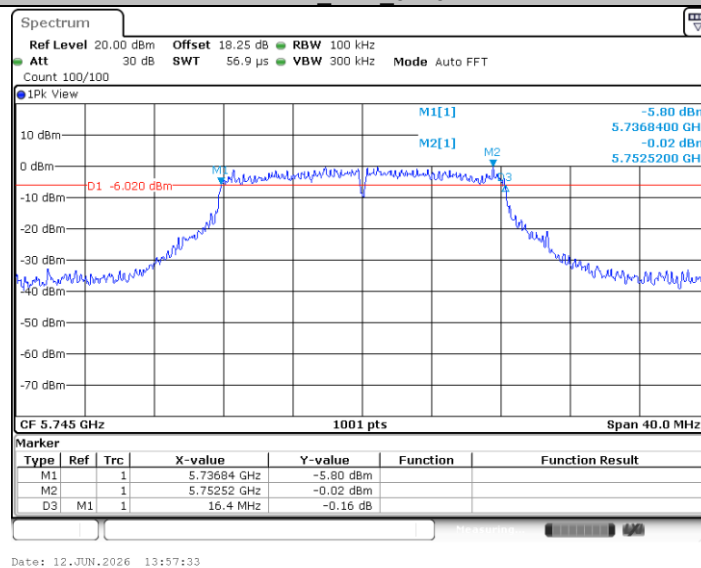
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11AC80SISO_Ant1_5775

**6dB Bandwidth:**

11A_Ant1_5745



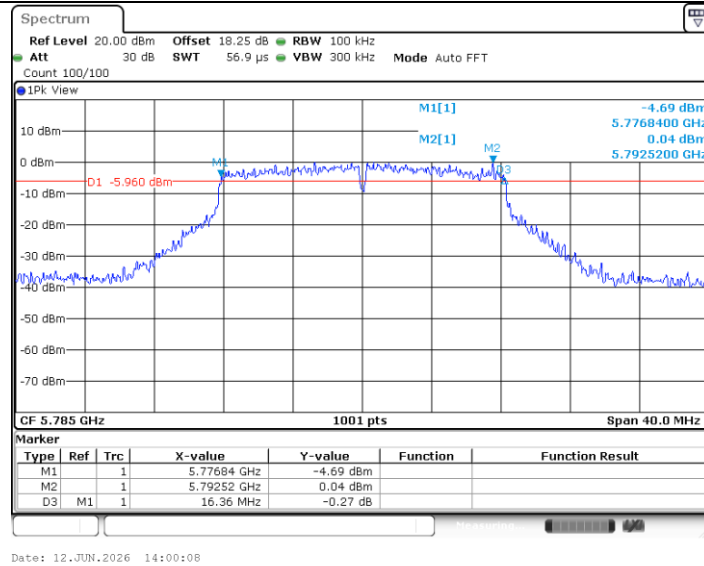
11A_Ant1_5785

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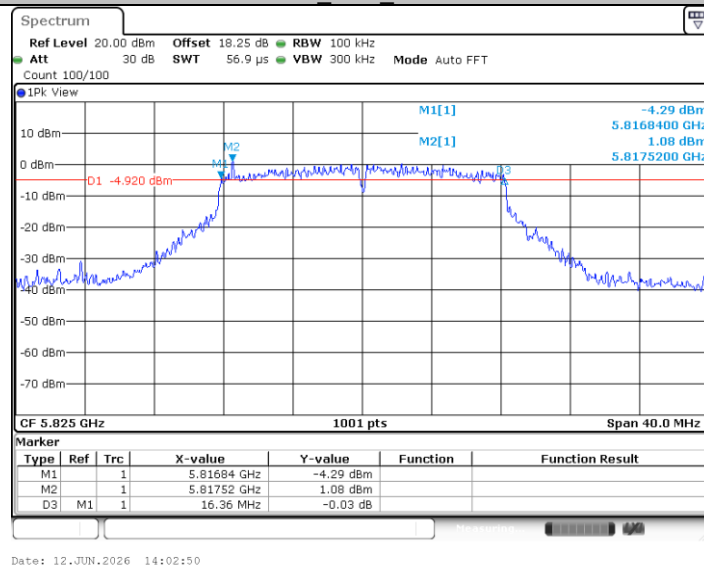
Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A5

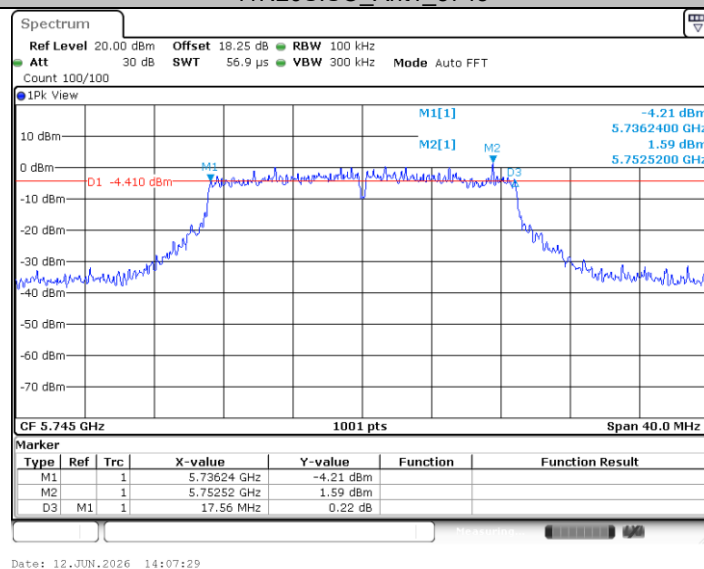
Master TRF : Dated 2026-06-01



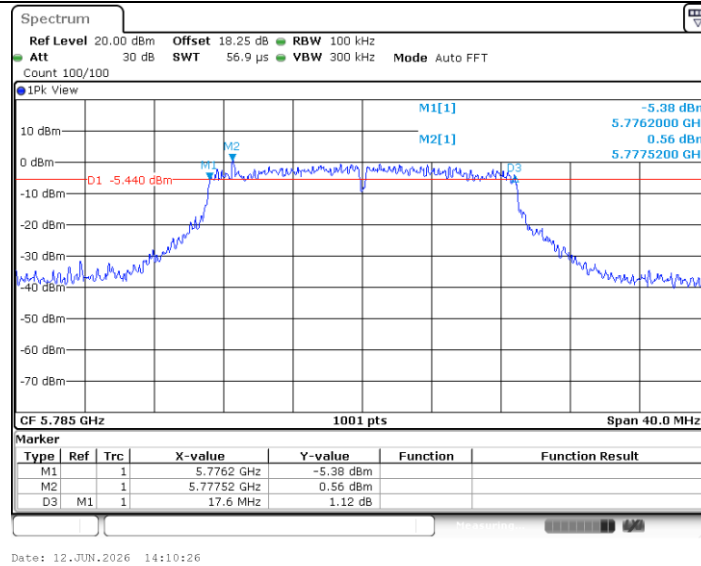
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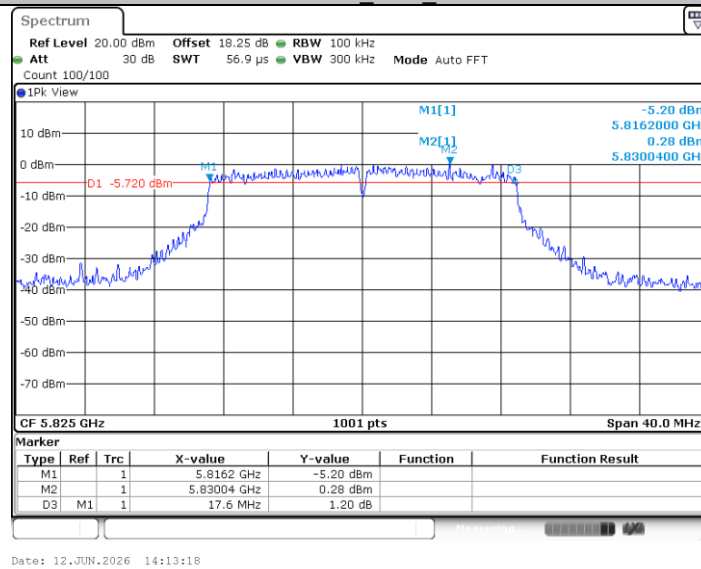
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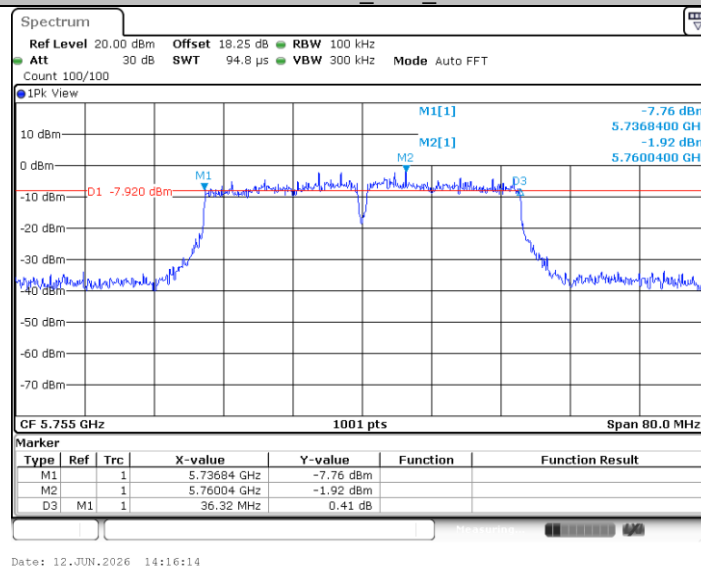
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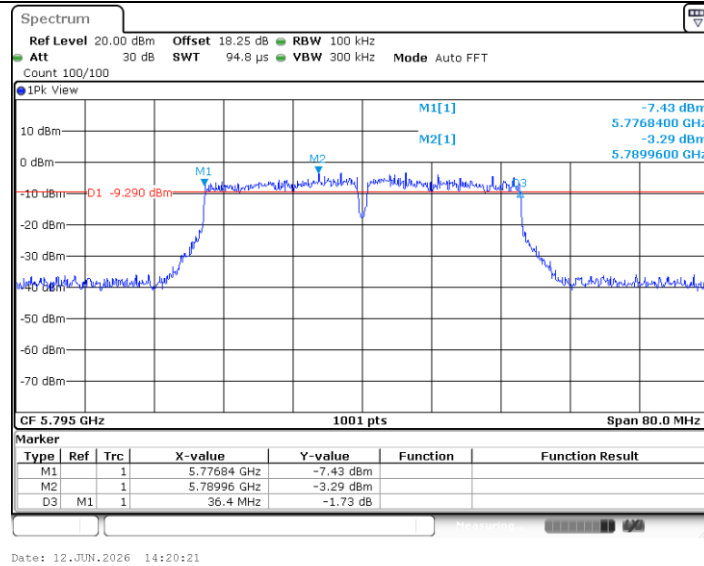
11N20SISO_Ant1_5825



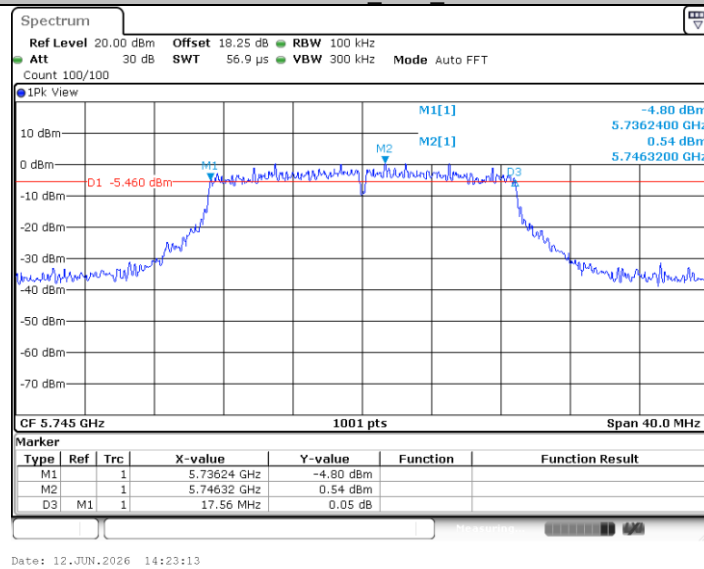
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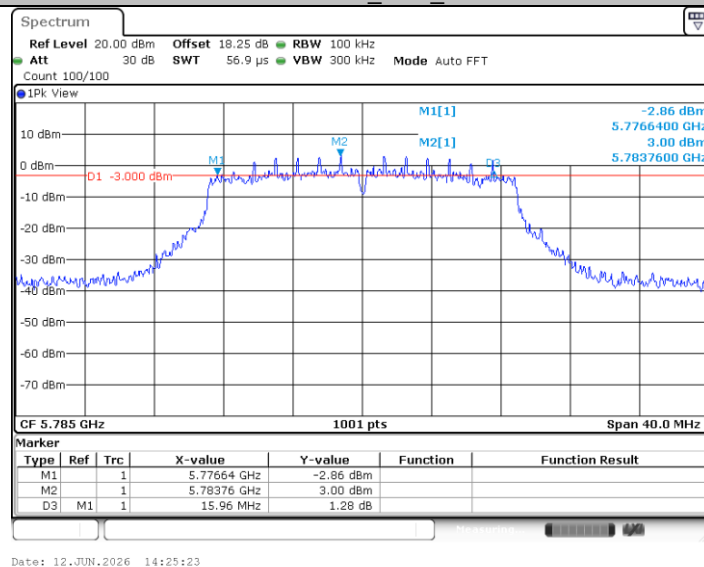
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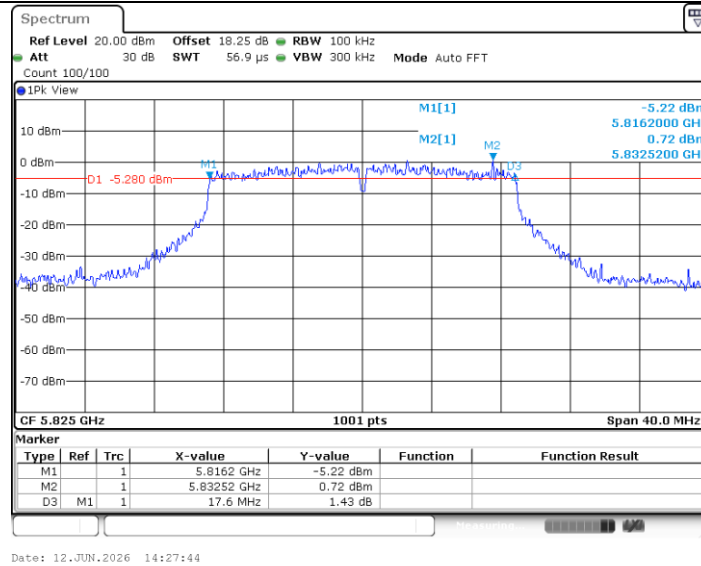
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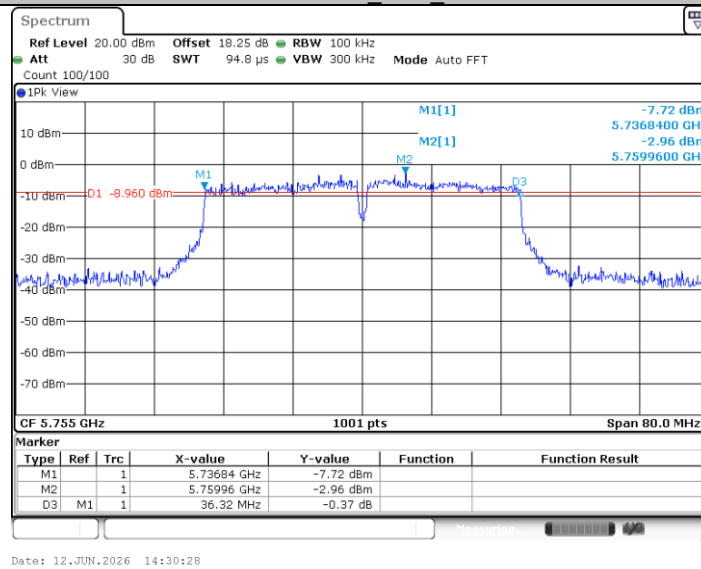
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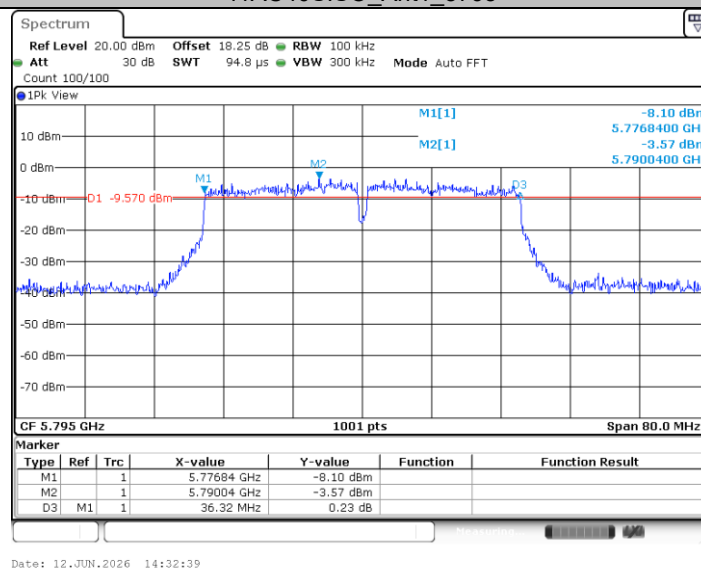
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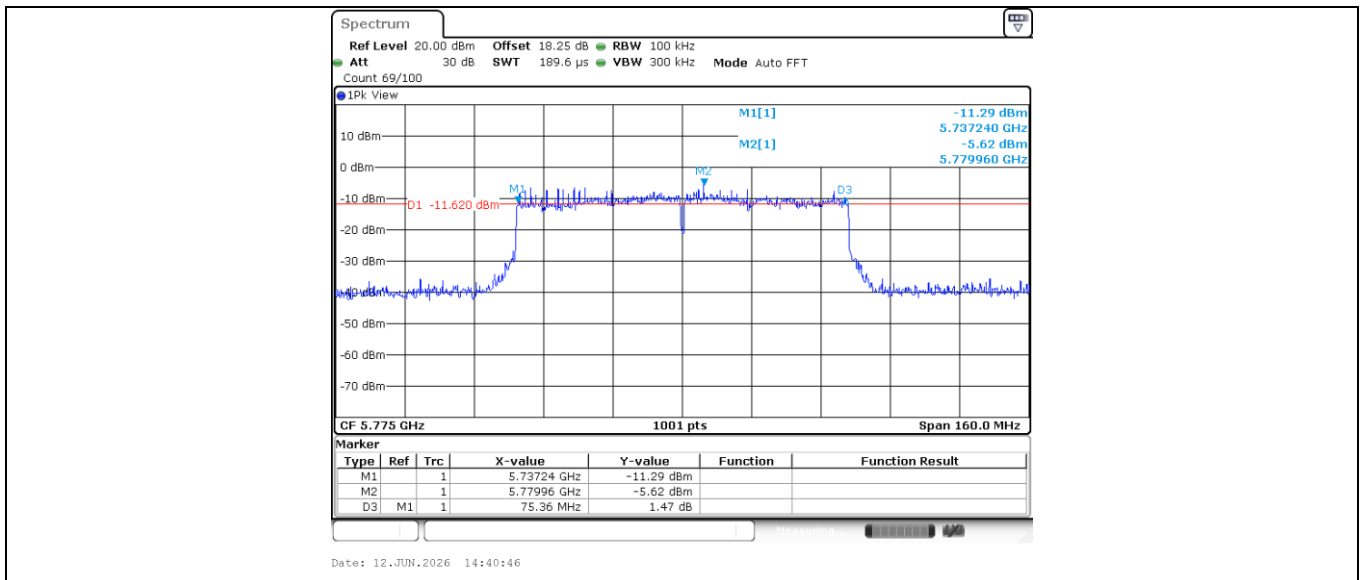
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



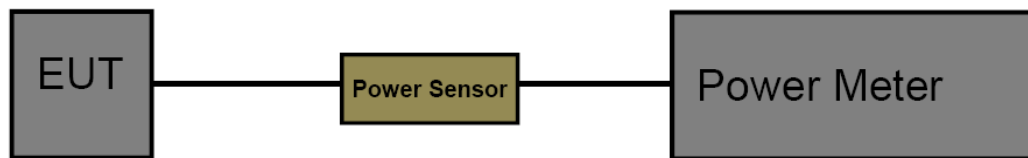
3.4. Output Power

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

Test Configuration



Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

Test Mode

Please refer to the clause 2.4.

Test Result

Test Mode	Antenna	Freq (MHz)	Conducted power Result [dBm]	Conducted power Limit [dBm]	Verdict
11A	Ant1	5180	18.20	≤30.00	PASS
	Ant1	5200	18.55	≤30.00	PASS
	Ant1	5240	18.39	≤30.00	PASS
	Ant1	5745	13.10	≤30.00	PASS
	Ant1	5785	13.43	≤30.00	PASS
	Ant1	5825	13.56	≤30.00	PASS
11N20SISO	Ant1	5180	17.94	≤30.00	PASS
	Ant1	5200	18.26	≤30.00	PASS
	Ant1	5240	18.20	≤30.00	PASS
	Ant1	5745	12.81	≤30.00	PASS
	Ant1	5785	13.23	≤30.00	PASS
	Ant1	5825	13.34	≤30.00	PASS
11N40SISO	Ant1	5190	14.35	≤30.00	PASS
	Ant1	5230	14.78	≤30.00	PASS
	Ant1	5755	12.49	≤30.00	PASS
	Ant1	5795	12.43	≤30.00	PASS
11AC20SISO	Ant1	5180	17.04	≤30.00	PASS
	Ant1	5200	17.31	≤30.00	PASS
	Ant1	5240	17.42	≤30.00	PASS
	Ant1	5745	12.79	≤30.00	PASS
	Ant1	5785	13.16	≤30.00	PASS
	Ant1	5825	13.29	≤30.00	PASS
11AC40SISO	Ant1	5190	16.67	≤30.00	PASS
	Ant1	5230	16.92	≤30.00	PASS
	Ant1	5755	12.47	≤30.00	PASS
	Ant1	5795	12.42	≤30.00	PASS
11AC80SISO	Ant1	5210	14.22	≤30.00	PASS
	Ant1	5775	11.76	≤30.00	PASS

3.5. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{TX} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{TX} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.47~5.725GHz band:

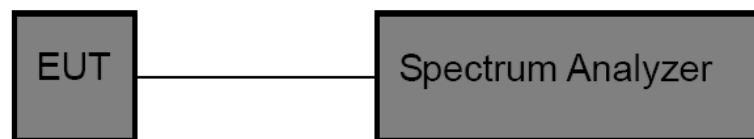
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{TX} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.
If $G_{TX} > 6\text{dBi}$, then $\text{PSD} = 30 - (G_{TX} - 6)$.
- Point-to-point systems (P2P)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note: G_{TX} : EUT Antenna gain.

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) (alternatively, the entire 99% OBW) of the signal.
- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz
RBW=500kHz for devices operating in the band 5.725-5.85 GHz.

(5) Set the VBW to: ≥ 3 RBW

(6) Detector: AVG

(7) Trace: Max Hold and View

(7) Sweep time: auto

(8) Trace average at least 100 traces in power averaging.

(9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

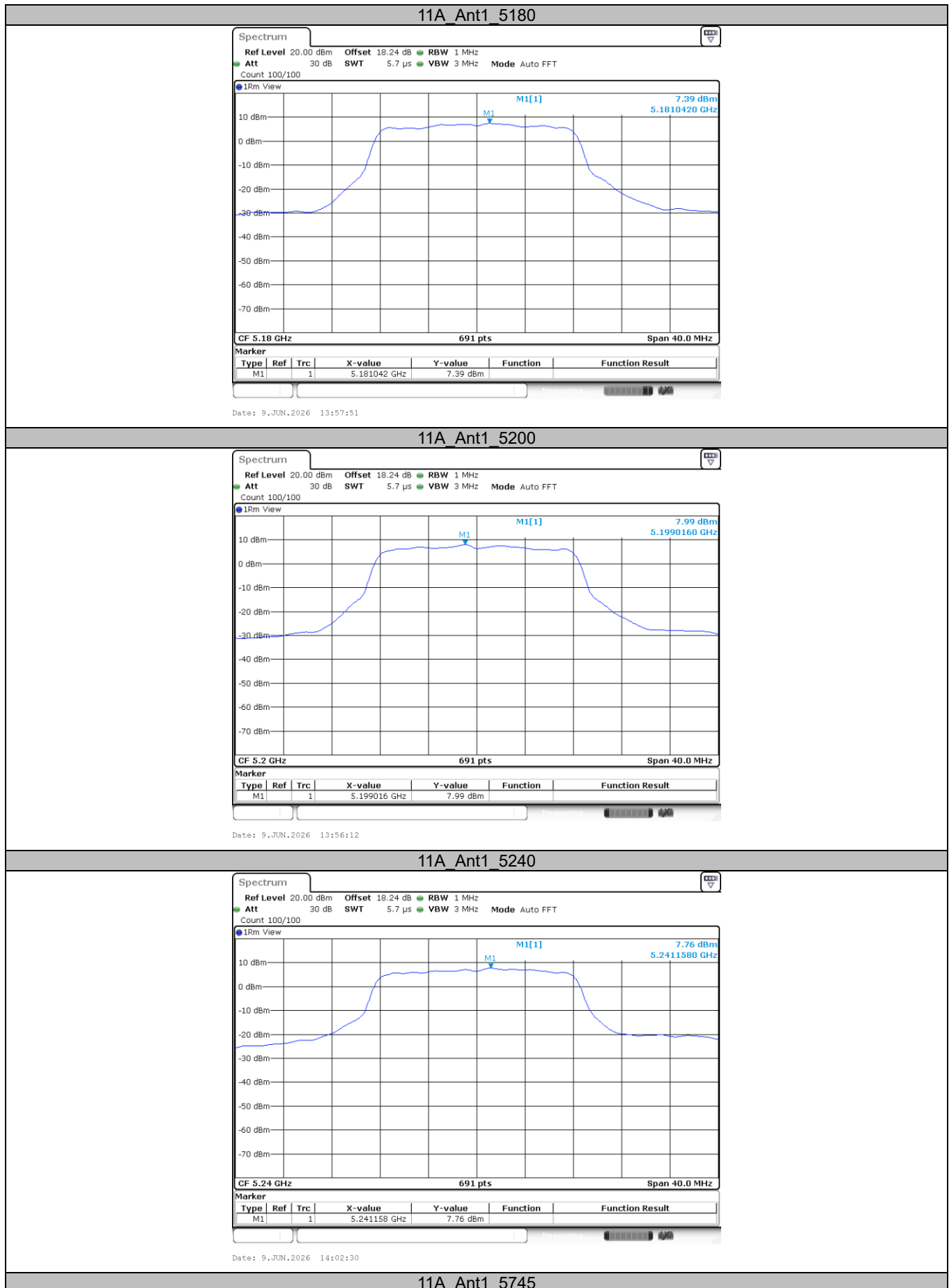
Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Freq(MHz)	Read [dBm/MHz]	DC Factor [dBm]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	7.39	0.08	7.47	≤ 17.00	PASS
	Ant1	5200	7.99	0.08	8.07	≤ 17.00	PASS
	Ant1	5240	7.76	0.10	7.86	≤ 17.00	PASS
	Ant1	5745	-0.62	0.08	-0.54	≤ 30.00	PASS
	Ant1	5785	-0.12	0.10	-0.02	≤ 30.00	PASS
	Ant1	5825	0.19	0.10	0.29	≤ 30.00	PASS
11N20SISO	Ant1	5180	7.02	0.09	7.11	≤ 17.00	PASS
	Ant1	5200	7.27	0.09	7.36	≤ 17.00	PASS
	Ant1	5240	6.95	0.09	7.04	≤ 17.00	PASS
	Ant1	5745	-1.2	0.11	-1.09	≤ 30.00	PASS
	Ant1	5785	-0.54	0.09	-0.45	≤ 30.00	PASS
	Ant1	5825	-0.57	0.11	-0.46	≤ 30.00	PASS
11N40SISO	Ant1	5190	0.39	0.23	0.62	≤ 17.00	PASS
	Ant1	5230	0.83	0.18	1.01	≤ 17.00	PASS
	Ant1	5755	-4.42	0.18	-4.24	≤ 30.00	PASS
	Ant1	5795	-4.52	0.18	-4.34	≤ 30.00	PASS
11AC20SISO	Ant1	5180	5.73	0.11	5.84	≤ 17.00	PASS
	Ant1	5200	6.09	0.09	6.18	≤ 17.00	PASS
	Ant1	5240	6.16	0.09	6.25	≤ 17.00	PASS
	Ant1	5745	-1.29	0.09	-1.20	≤ 30.00	PASS
	Ant1	5785	-0.7	0.09	-0.61	≤ 30.00	PASS
	Ant1	5825	-0.03	0.09	0.06	≤ 30.00	PASS
11AC40SISO	Ant1	5190	2.85	0.23	3.08	≤ 17.00	PASS
	Ant1	5230	2.95	0.18	3.13	≤ 17.00	PASS
	Ant1	5755	-4.71	0.18	-4.53	≤ 30.00	PASS
	Ant1	5795	-4.58	0.18	-4.40	≤ 30.00	PASS
11AC80SISO	Ant1	5210	-3.01	0.46	-2.55	≤ 17.00	PASS
	Ant1	5775	-8.46	0.36	-8.10	≤ 30.00	PASS

Test Graphs:



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Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

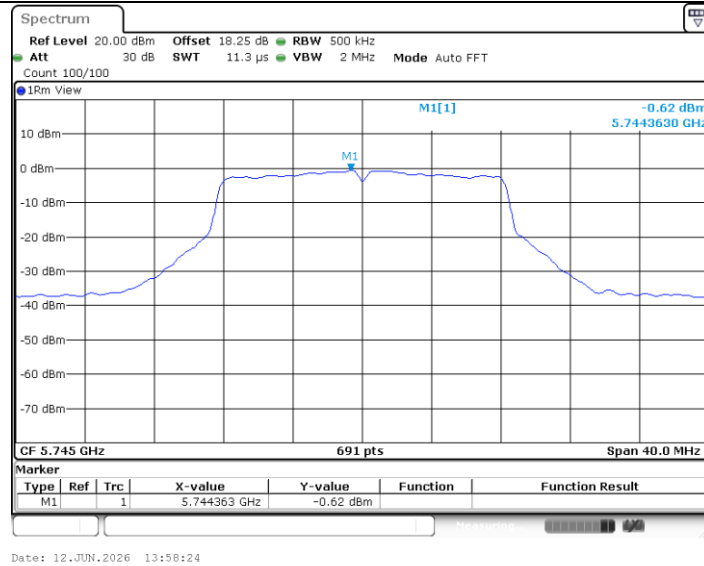
Tel.: (86)755-27521059

Fax: (86)755-27521011

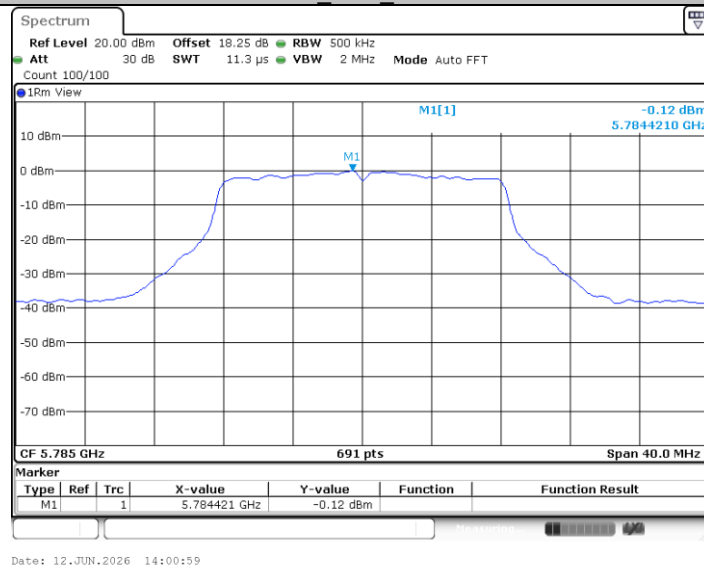
Http://www.sz-ctc.org.cn

TRF No: CTC-TR-062_A5

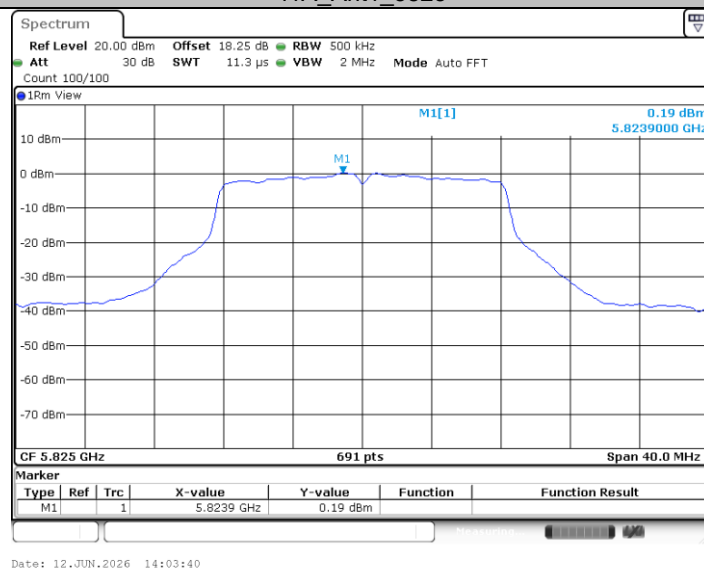
Master TRF : Dated 2026-06-01



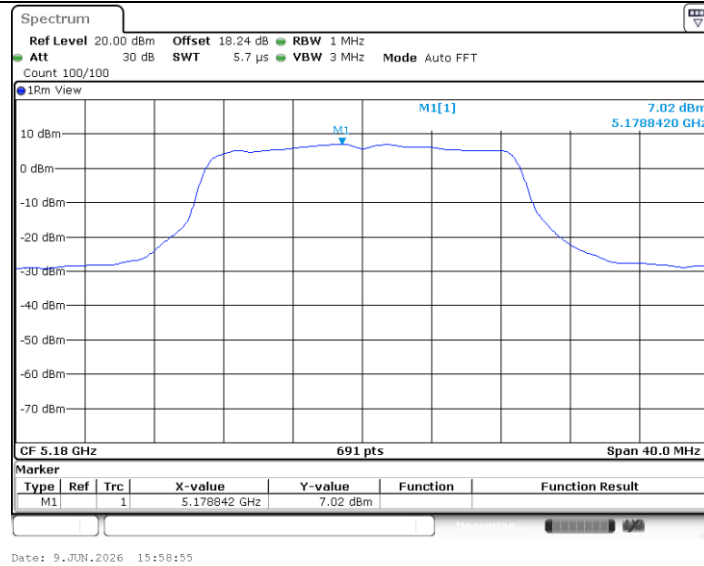
11A_Ant1_5785



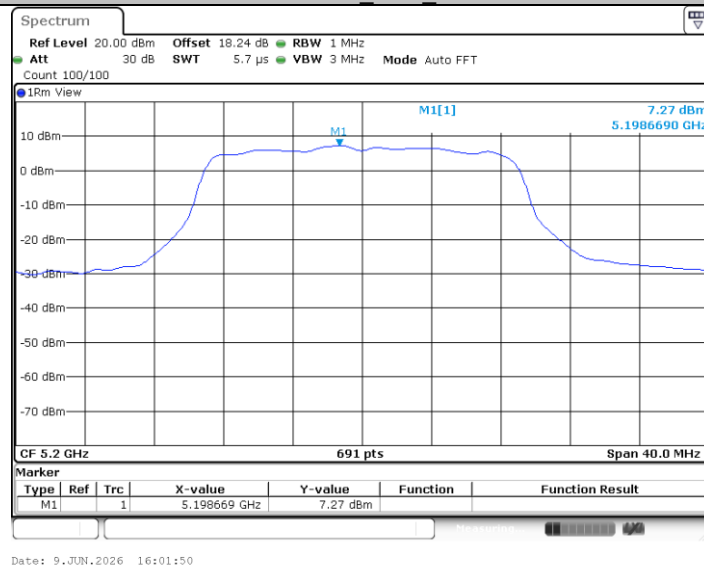
11A_Ant1_5825



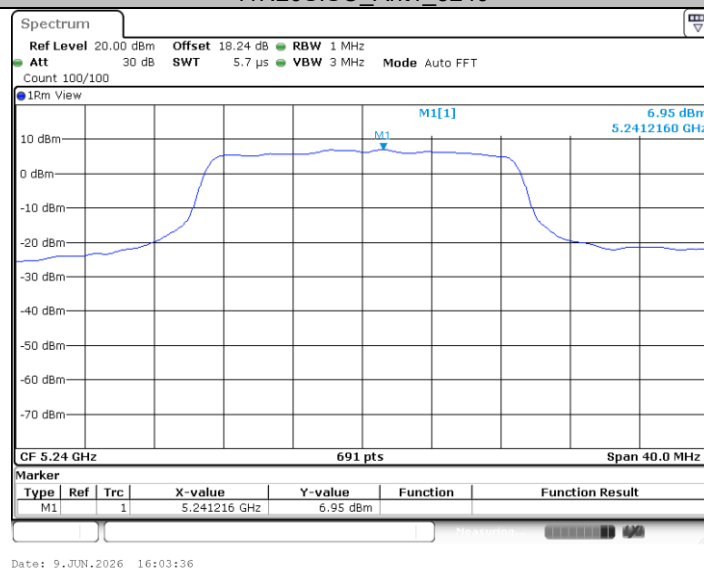
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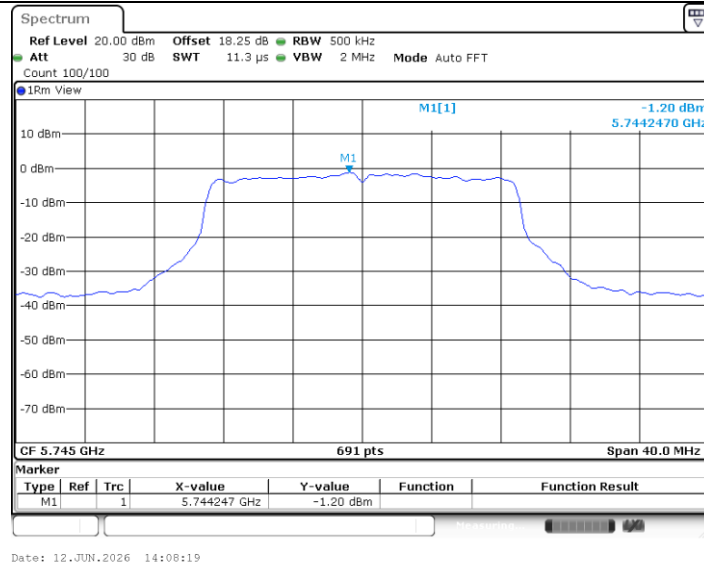
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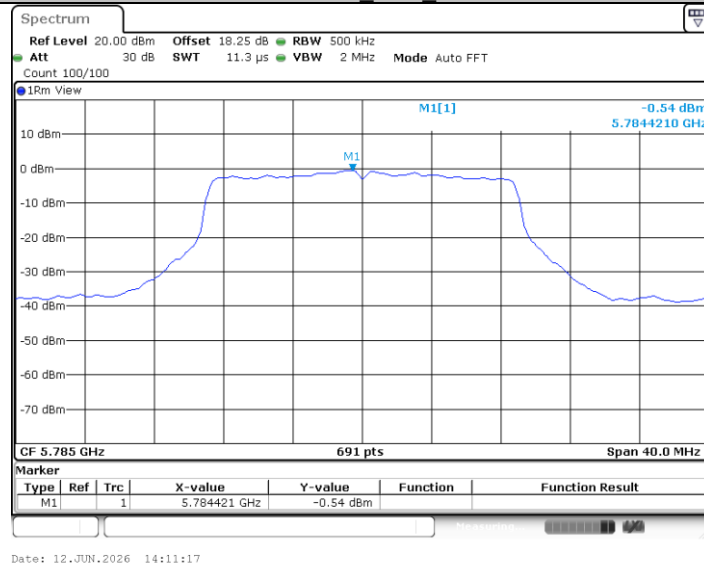
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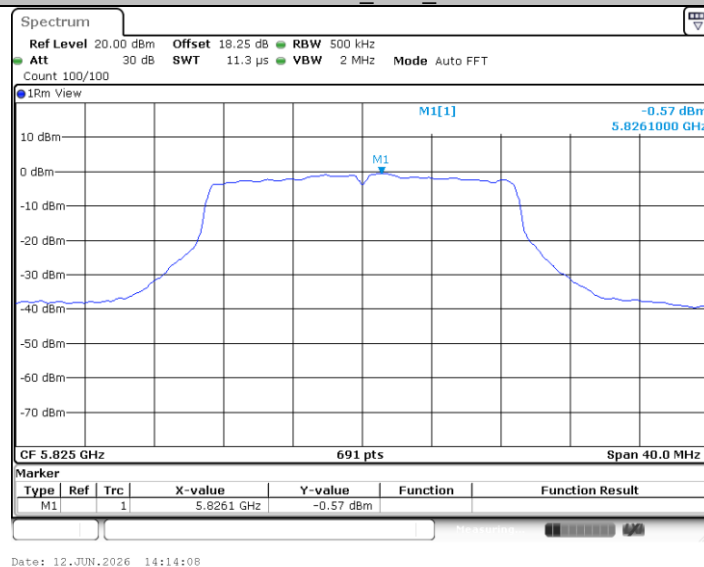
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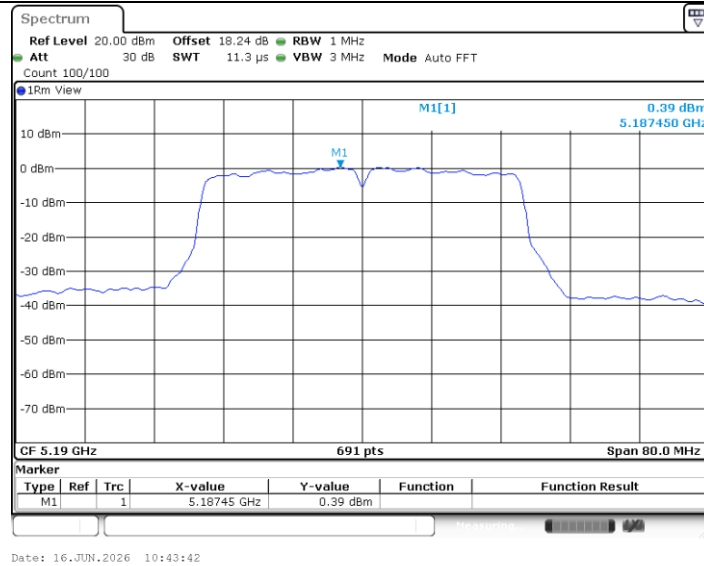
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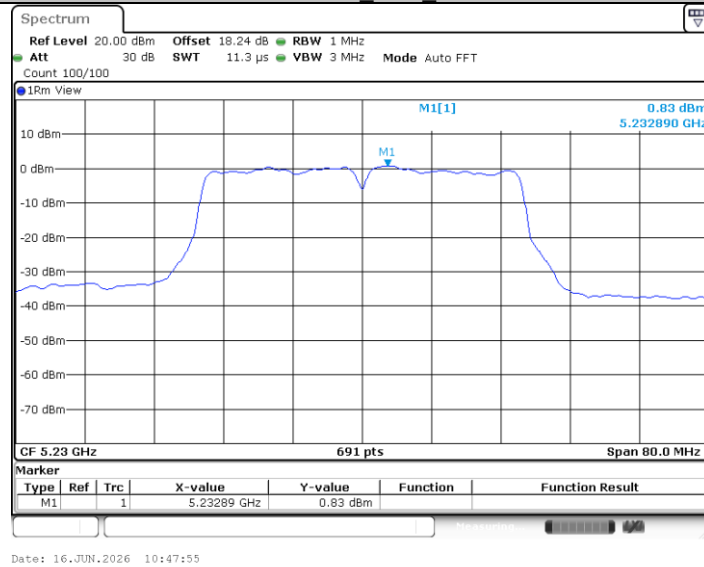
11N20SISO_Ant1_5825



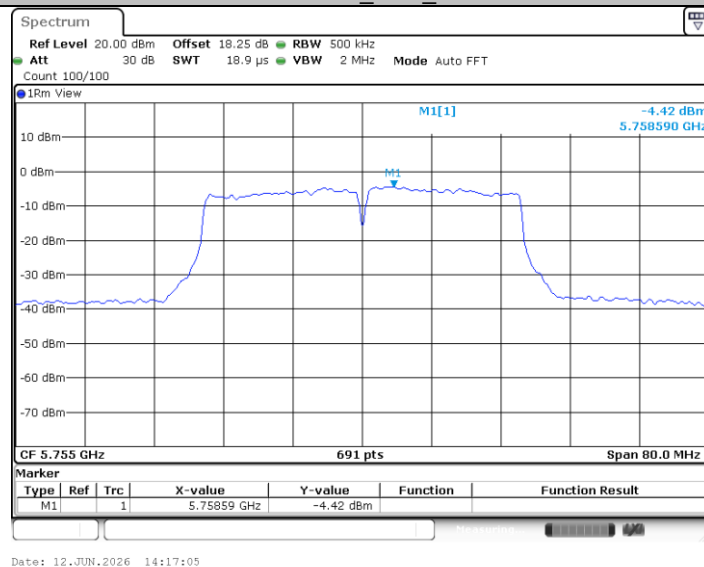
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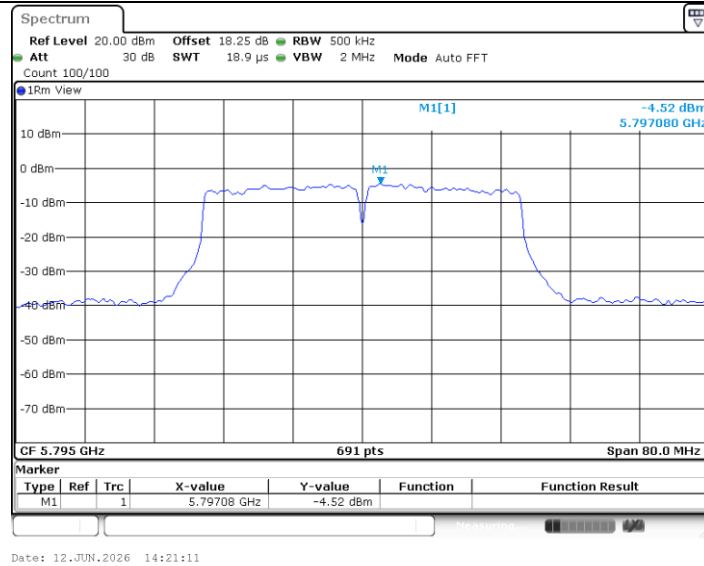
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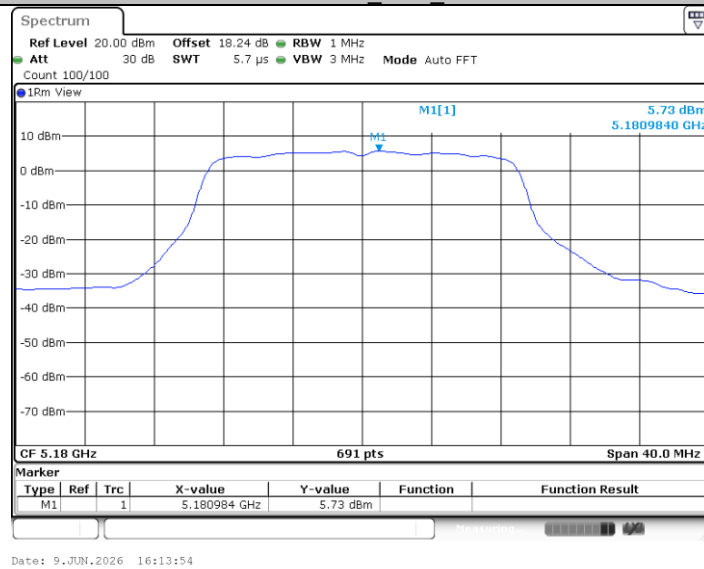
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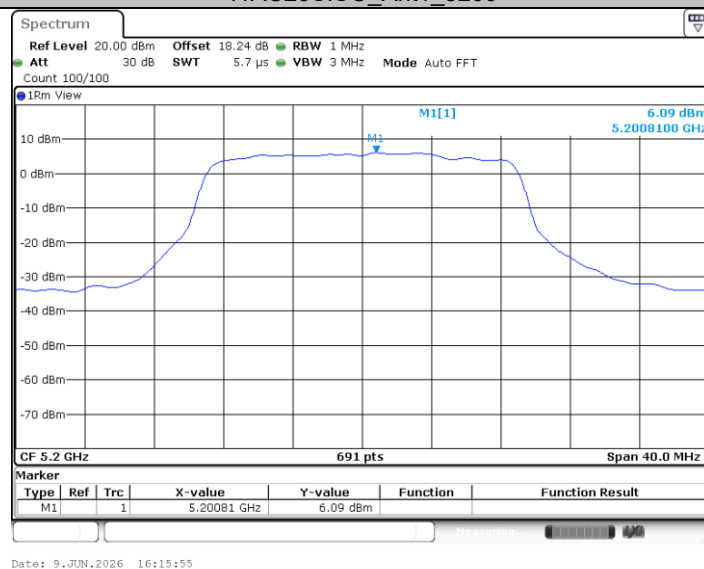
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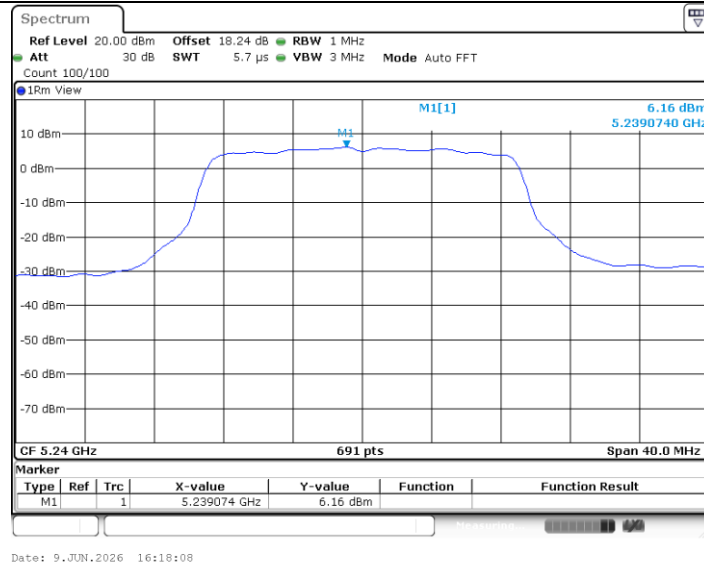
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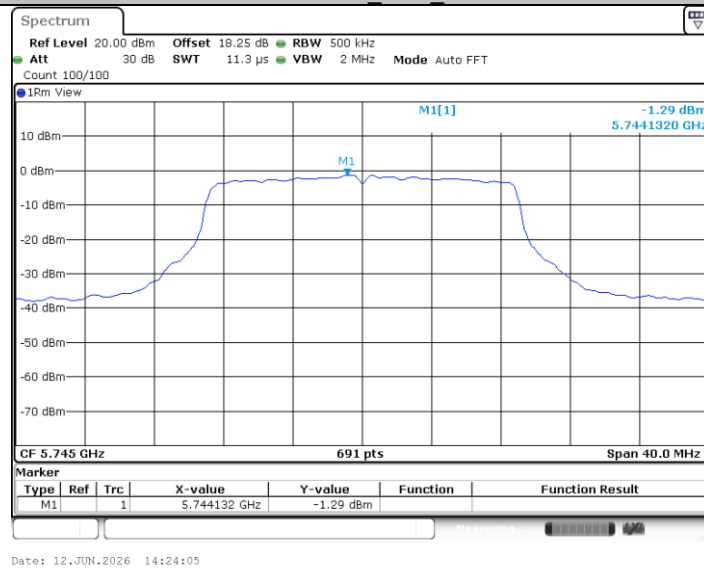
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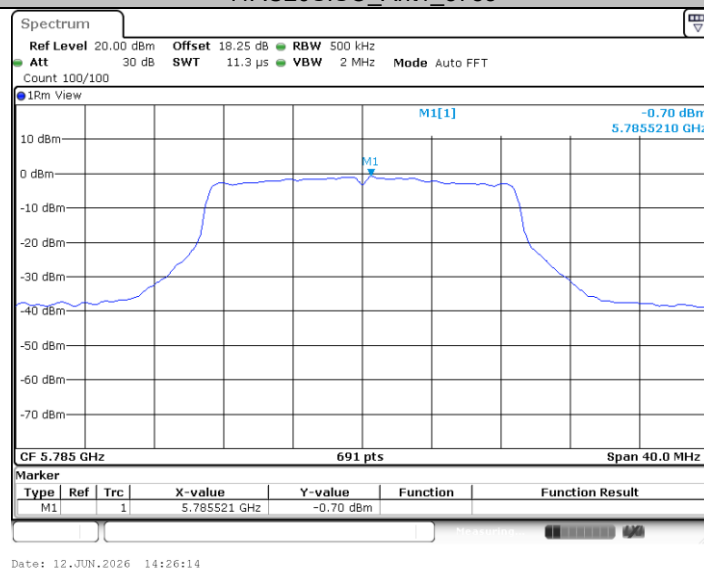
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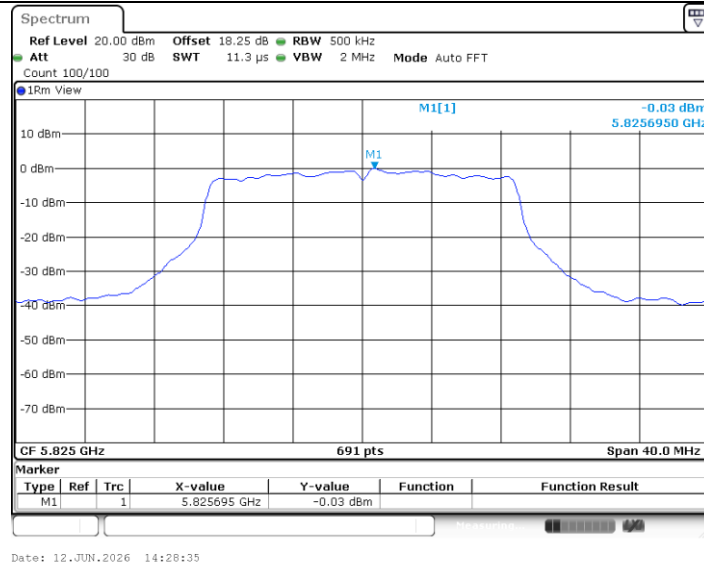
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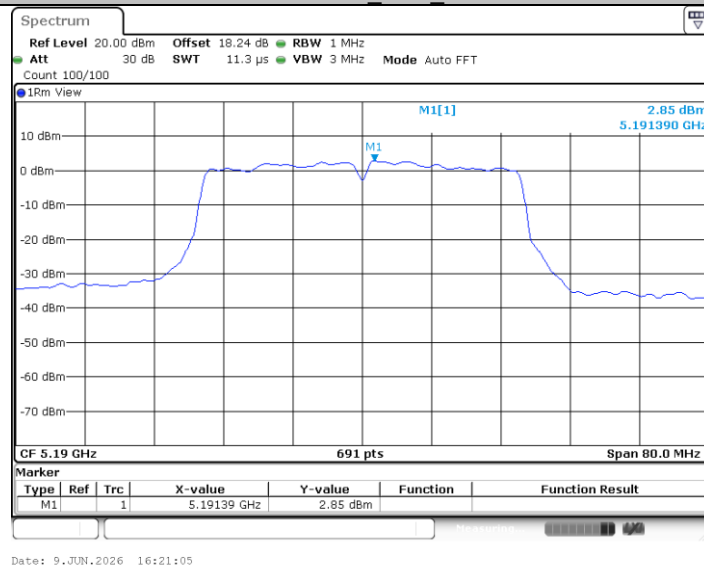
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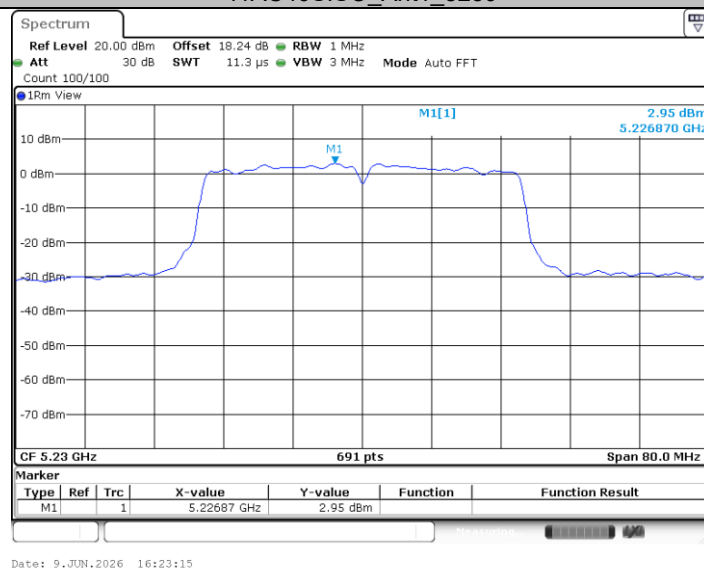
11AC20SISO_Ant1_5825



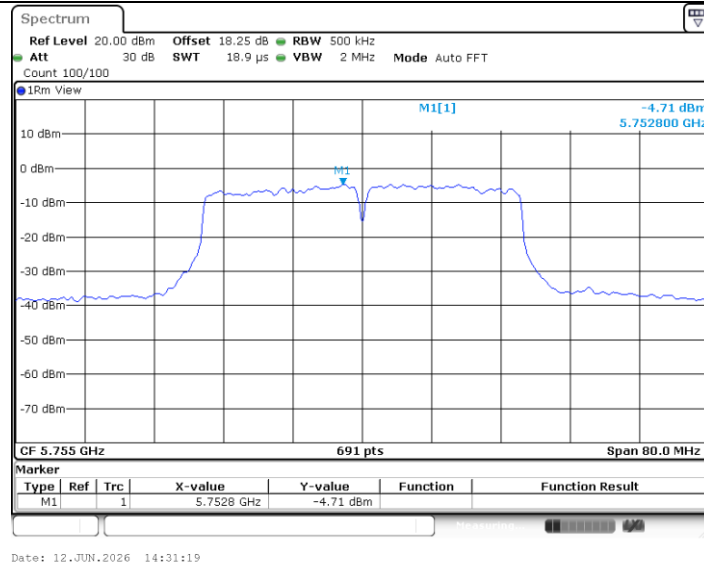
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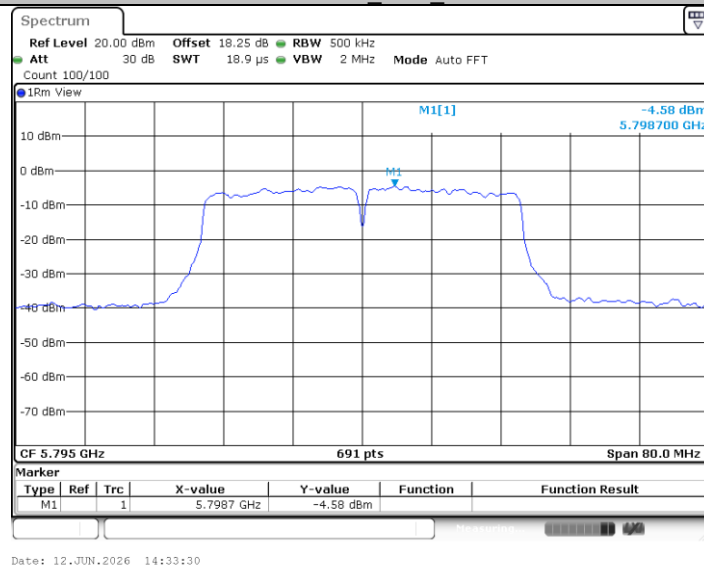
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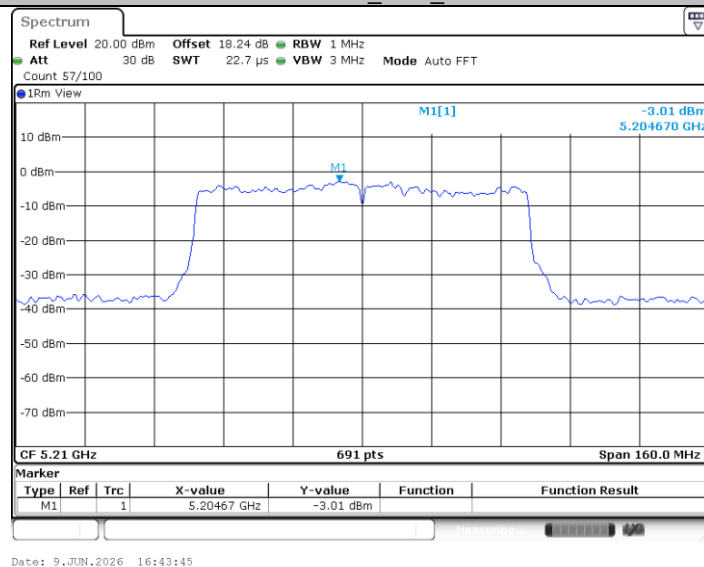
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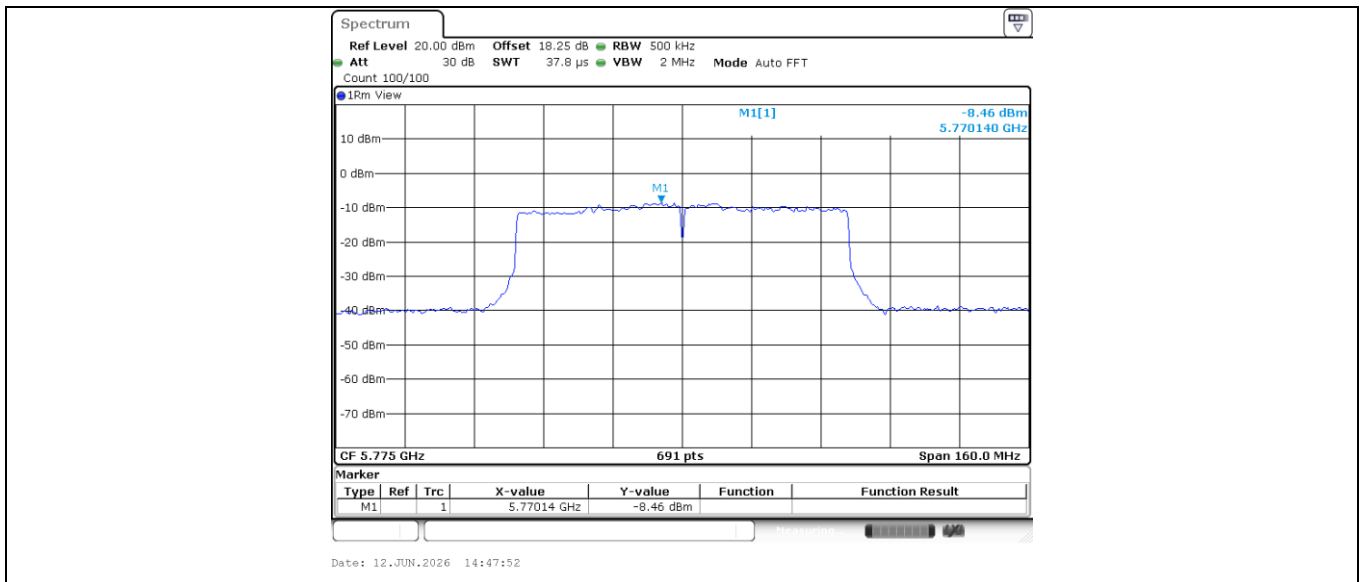
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



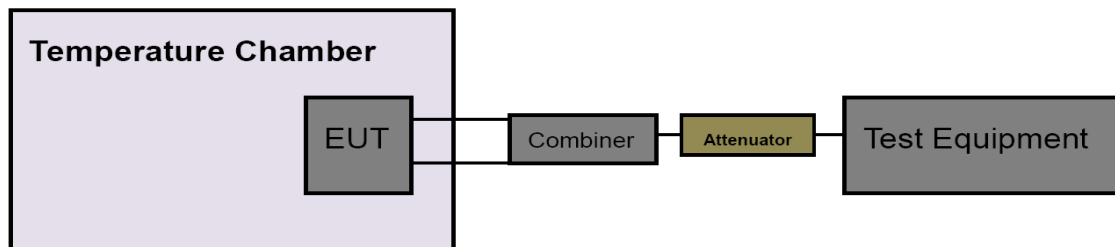
3.6. Frequency Stability

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(g)

Test Item	Limit	Frequency Range (MHz)
Frequency Stability	Specified in the user's manual, the transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)	5150~5250
		5250~5350
		5500~5700
		5725~5850

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 8MHz, VBW=8MHz with peak detector and max hold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 10.8V to 13.2V percent of the nominal value.
- (6) Extreme temperature is 0°C~45°C

NOTE: The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

Test Mode

Please refer to the clause 2.4.

Test Result

Voltage								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20M	Ant1	5180	NV	NT	10000.00	1.930502	20	PASS
			LV	NT	10000.00	1.930502	20	PASS
			HV	NT	10000.00	1.930502	20	PASS
	Ant1	5200	NV	NT	9000.00	1.730769	20	PASS
			LV	NT	9000.00	1.730769	20	PASS
			HV	NT	9000.00	1.730769	20	PASS
	Ant1	5240	NV	NT	12000.00	2.290076	20	PASS
			LV	NT	10000.00	1.908397	20	PASS
			HV	NT	9000.00	1.717557	20	PASS
	Ant1	5745	NV	NT	14000.00	2.436902	20	PASS
			LV	NT	12000.00	2.088773	20	PASS
			HV	NT	12000.00	2.088773	20	PASS
	Ant1	5785	NV	NT	14000.00	2.420052	20	PASS
			LV	NT	12000.00	2.074330	20	PASS
			HV	NT	12000.00	2.074330	20	PASS
	Ant1	5825	NV	NT	15000.00	2.575107	20	PASS
			LV	NT	13000.00	2.231760	20	PASS
			HV	NT	12000.00	2.060086	20	PASS
40M	Ant1	5190	NV	NT	13000.00	2.504817	20	PASS
			LV	NT	11000.00	2.119461	20	PASS
			HV	NT	10000.00	1.926782	20	PASS
	Ant1	5230	NV	NT	12000.00	2.294455	20	PASS
			LV	NT	10000.00	1.912046	20	PASS
			HV	NT	9000.00	1.720841	20	PASS
	Ant1	5755	NV	NT	14000.00	2.432667	20	PASS
			LV	NT	12000.00	2.085143	20	PASS
			HV	NT	12000.00	2.085143	20	PASS
	Ant1	5795	NV	NT	16000.00	2.761001	20	PASS
			LV	NT	13000.00	2.243313	20	PASS
			HV	NT	12000.00	2.070751	20	PASS
80M	Ant1	5210	NV	NT	13000.00	2.495202	20	PASS
			LV	NT	11000.00	2.111324	20	PASS
			HV	NT	10000.00	1.919386	20	PASS
	Ant1	5775	NV	NT	14000.00	2.424242	20	PASS
			LV	NT	12000.00	2.077922	20	PASS
			HV	NT	12000.00	2.077922	20	PASS

Temperature								
TestMode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20M	Ant1	5180	NV	0	9000.00	1.737452	20	PASS
			NV	10	10000.00	1.930502	20	PASS
			NV	20	9000.00	1.737452	20	PASS
			NV	30	9000.00	1.737452	20	PASS
			NV	40	9000.00	1.737452	20	PASS
			NV	45	9000.00	1.737452	20	PASS
	Ant1	5200	NV	0	9000.00	1.730769	20	PASS
			NV	10	9000.00	1.730769	20	PASS
			NV	20	9000.00	1.730769	20	PASS
			NV	30	9000.00	1.730769	20	PASS
			NV	40	9000.00	1.730769	20	PASS
			NV	45	9000.00	1.730769	20	PASS
	Ant1	5240	NV	0	9000.00	1.717557	20	PASS
			NV	10	9000.00	1.717557	20	PASS
			NV	20	9000.00	1.717557	20	PASS
			NV	30	9000.00	1.717557	20	PASS
			NV	40	9000.00	1.717557	20	PASS
			NV	45	9000.00	1.717557	20	PASS
	Ant1	5745	NV	0	12000.00	2.088773	20	PASS

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			NV	10	12000.00	2.088773	20	PASS
			NV	20	12000.00	2.088773	20	PASS
			NV	30	12000.00	2.088773	20	PASS
			NV	40	12000.00	2.088773	20	PASS
			NV	45	12000.00	2.088773	20	PASS
	Ant1	5785	NV	0	12000.00	2.074330	20	PASS
			NV	10	12000.00	2.074330	20	PASS
			NV	20	12000.00	2.074330	20	PASS
			NV	30	12000.00	2.074330	20	PASS
			NV	40	12000.00	2.074330	20	PASS
			NV	45	12000.00	2.074330	20	PASS
	Ant1	5825	NV	0	12000.00	2.060086	20	PASS
			NV	10	12000.00	2.060086	20	PASS
			NV	20	12000.00	2.060086	20	PASS
			NV	30	12000.00	2.060086	20	PASS
			NV	40	12000.00	2.060086	20	PASS
			NV	45	12000.00	2.060086	20	PASS
40M	Ant1	5190	NV	0	9000.00	1.734104	20	PASS
			NV	10	9000.00	1.734104	20	PASS
			NV	20	9000.00	1.734104	20	PASS
			NV	30	9000.00	1.734104	20	PASS
			NV	40	9000.00	1.734104	20	PASS
			NV	45	9000.00	1.734104	20	PASS
	Ant1	5230	NV	0	9000.00	1.720841	20	PASS
			NV	10	10000.00	1.912046	20	PASS
			NV	20	9000.00	1.720841	20	PASS
			NV	30	9000.00	1.720841	20	PASS
			NV	40	9000.00	1.720841	20	PASS
			NV	45	9000.00	1.720841	20	PASS
	Ant1	5755	NV	0	12000.00	2.085143	20	PASS
			NV	10	12000.00	2.085143	20	PASS
			NV	20	12000.00	2.085143	20	PASS
			NV	30	12000.00	2.085143	20	PASS
			NV	40	12000.00	2.085143	20	PASS
			NV	45	12000.00	2.085143	20	PASS
	Ant1	5795	NV	0	12000.00	2.070751	20	PASS
			NV	10	12000.00	2.070751	20	PASS
			NV	20	12000.00	2.070751	20	PASS
			NV	30	12000.00	2.070751	20	PASS
			NV	40	12000.00	2.070751	20	PASS
			NV	45	12000.00	2.070751	20	PASS
80M	Ant1	5210	NV	0	9000.00	1.727447	20	PASS
			NV	10	9000.00	1.727447	20	PASS
			NV	20	9000.00	1.727447	20	PASS
			NV	30	9000.00	1.727447	20	PASS
			NV	40	9000.00	1.727447	20	PASS
			NV	45	9000.00	1.727447	20	PASS
	Ant1	5775	NV	0	11000.00	1.904762	20	PASS
			NV	10	11000.00	1.904762	20	PASS
			NV	20	11000.00	1.904762	20	PASS
			NV	30	11000.00	1.904762	20	PASS
			NV	40	11000.00	1.904762	20	PASS
			NV	45	11000.00	1.904762	20	PASS

3.7. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203

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 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.

Test Result

Pass.

The transmitter employs an integral PCB antenna installed inside the host device. The antenna is permanently attached and cannot be readily replaced by the end user. No standard antenna connector is provided. Therefore, the antenna configuration complies with the requirements of FCC §15.203.

*****THE END OF REPORT*****