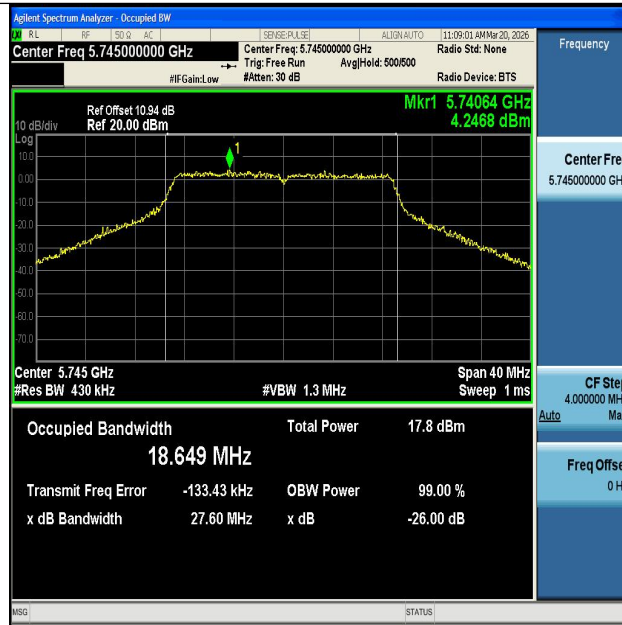
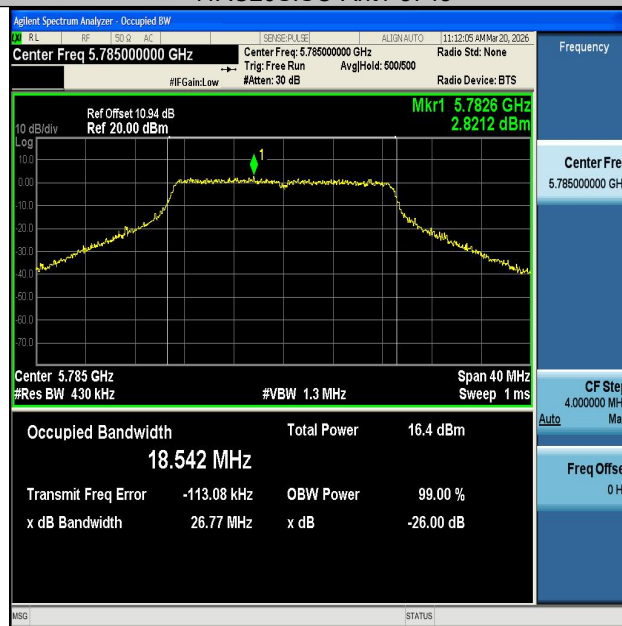


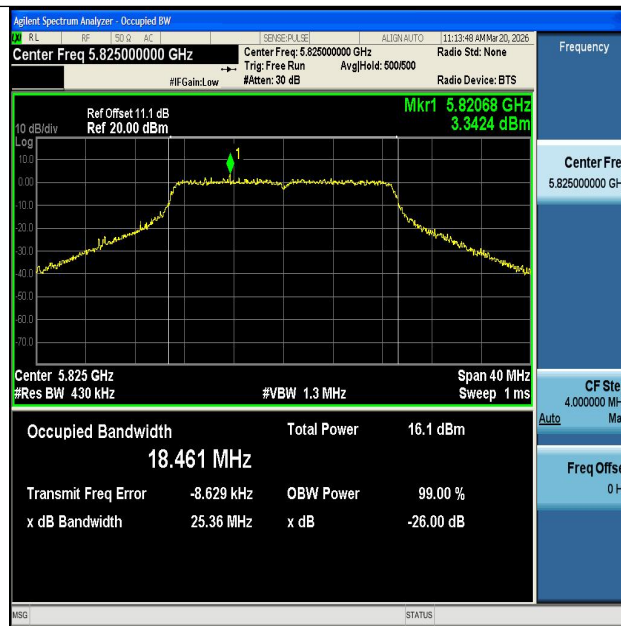


11AC20SISO-Ant1-5745

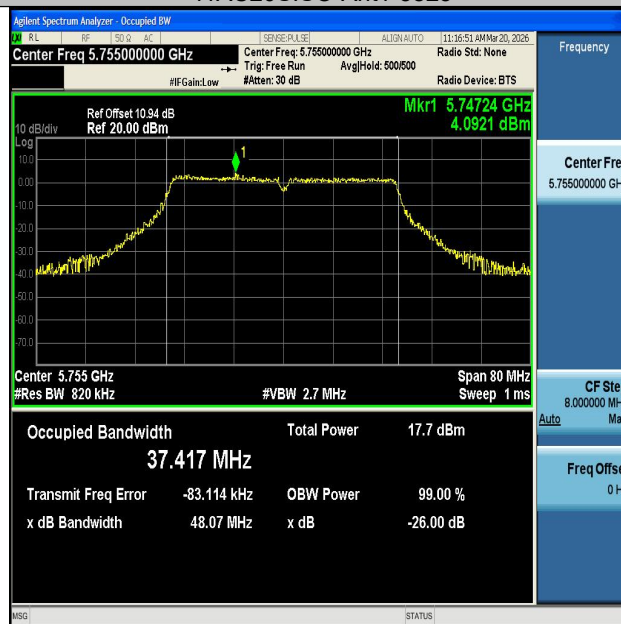


11AC20SISO-Ant1-5785

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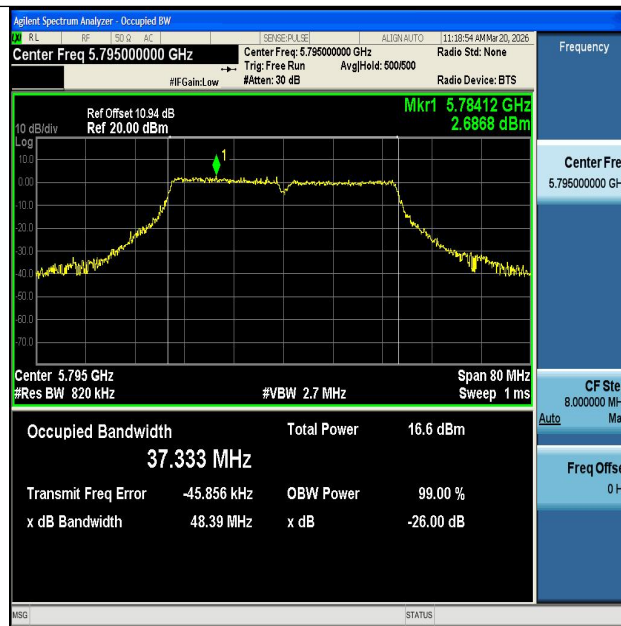
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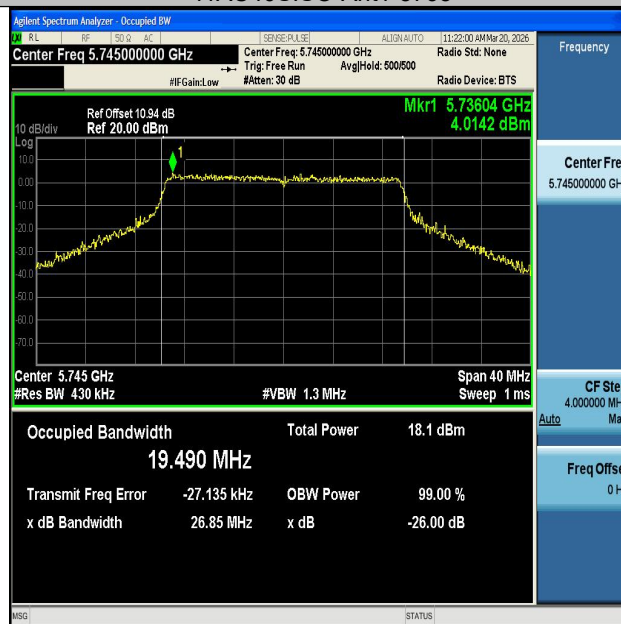
11AC40SISO-Ant1-5755

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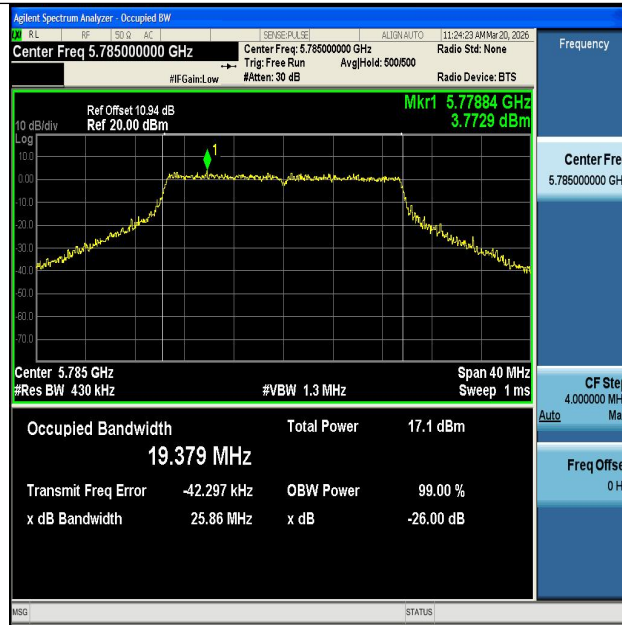


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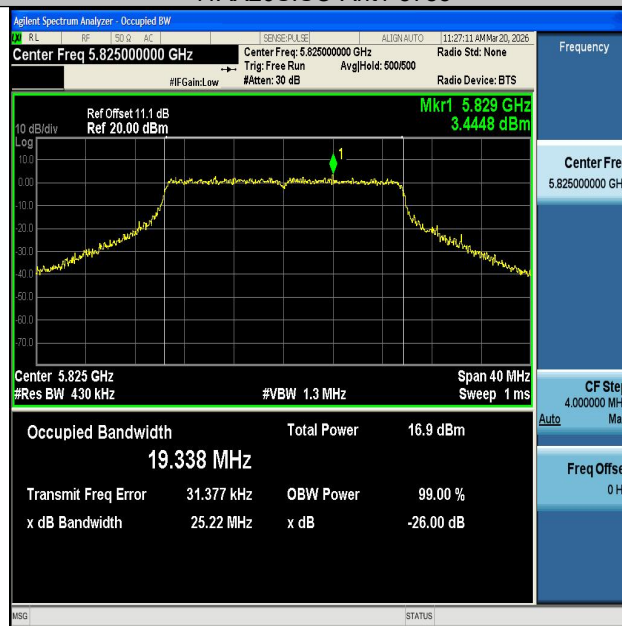


11AX20SISO-Ant1-5745

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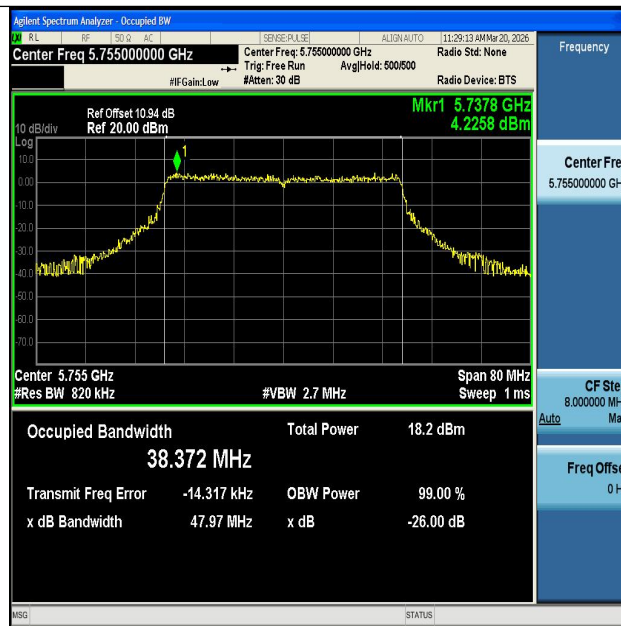


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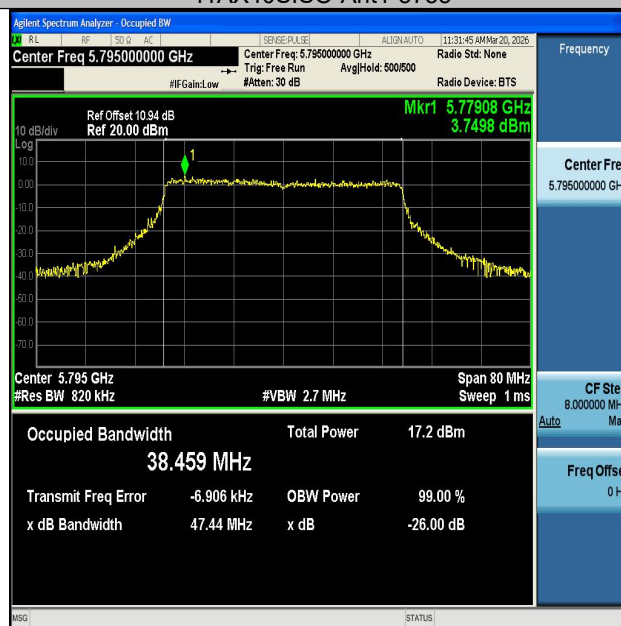


11AX20SISO-Ant1-5825

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11AX40SISO-Ant1-5755



11AX40SISO-Ant1-5795

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9. Power Spectral Density Measurement

9.1 Provisions Applicable

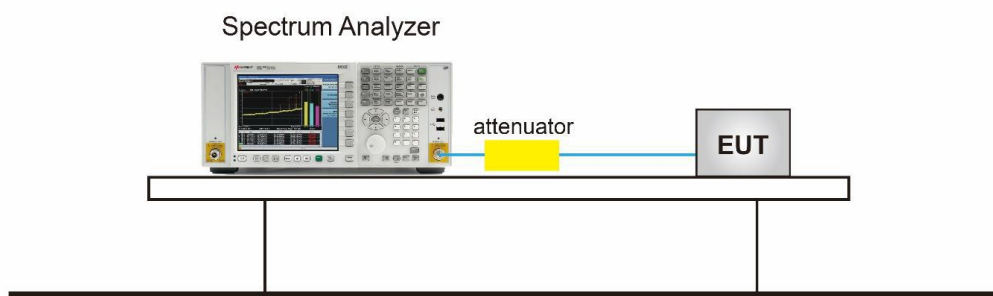
Operation Band	EUT Category		LIMIT
U-NII-1	☐	Outdoor Access Point	17dBm/ MHz
	☐	Fixed point-to-point Access Point	17dBm/ MHz
	☐	Indoor Access Point	17dBm/ MHz
	☒	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

9.2 Measurement Procedure

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz.
4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$ to the measured result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1/D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
12. The final test results have been increased by the duty cycle factor and recorded in the report

9.3 Measurement Setup (Block Diagram of Configuration)



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9.4 Measurement Result

For 5180~5240MHz:

Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-0.69	≤11.00	PASS
11A	Ant1	5200	0.42	≤11.00	PASS
11A	Ant1	5240	0.03	≤11.00	PASS
11N20SISO	Ant1	5180	-1.56	≤11.00	PASS
11N20SISO	Ant1	5200	-0.21	≤11.00	PASS
11N20SISO	Ant1	5240	-0.78	≤11.00	PASS
11N40SISO	Ant1	5190	-5.40	≤11.00	PASS
11N40SISO	Ant1	5230	-3.68	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.86	≤11.00	PASS
11AC20SISO	Ant1	5200	0.94	≤11.00	PASS
11AC20SISO	Ant1	5240	0.78	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.48	≤11.00	PASS
11AC40SISO	Ant1	5230	-2.41	≤11.00	PASS
11AX20SISO	Ant1	5180	-1.99	≤11.00	PASS
11AX20SISO	Ant1	5200	0.29	≤11.00	PASS
11AX20SISO	Ant1	5240	0.78	≤11.00	PASS
11AX40SISO	Ant1	5190	-3.05	≤11.00	PASS
11AX40SISO	Ant1	5230	-2.90	≤11.00	PASS

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For 5745~5825MHz:

Frequency [MHz]	Test Mode	Antenna	Result [dBm/300KHz]	Result [dBm/500KHz]	DC Factor [dB]	RBW Factor [dB]	Limit [dBm/500KHz]	Verdict
5745	11A	Ant1	-5.78	-5.25	0.53	0.00	≤30.00	PASS
5785	11A	Ant1	-6.60	-6.16	0.44	0.00	≤30.00	PASS
5825	11A	Ant1	-6.63	-6.02	0.61	0.00	≤30.00	PASS
5745	11N20SISO	Ant1	-6.51	-5.57	0.94	0.00	≤30.00	PASS
5785	11N20SISO	Ant1	-7.19	-5.79	1.40	0.00	≤30.00	PASS
5825	11N20SISO	Ant1	-7.02	-5.54	1.48	0.00	≤30.00	PASS
5755	11N40SISO	Ant1	-9.96	-8.88	1.08	0.00	≤30.00	PASS
5795	11N40SISO	Ant1	-9.90	-8.86	1.04	0.00	≤30.00	PASS
5745	11AC20SISO	Ant1	-7.16	-5.73	1.43	0.00	≤30.00	PASS
5785	11AC20SISO	Ant1	-8.40	-6.97	1.43	0.00	≤30.00	PASS
5825	11AC20SISO	Ant1	-9.11	-7.61	1.50	0.00	≤30.00	PASS
5755	11AC40SISO	Ant1	-10.16	-8.58	1.58	0.00	≤30.00	PASS
5795	11AC40SISO	Ant1	-11.22	-10.19	1.03	0.00	≤30.00	PASS
5745	11AX20SISO	Ant1	-7.72	-3.13	2.37	2.22	≤30.00	PASS
5785	11AX20SISO	Ant1	-8.95	-4.19	2.54	2.22	≤30.00	PASS
5825	11AX20SISO	Ant1	-9.81	-5.22	2.37	2.22	≤30.00	PASS
5755	11AX40SISO	Ant1	-10.61	-6.39	2.00	2.22	≤30.00	PASS
5795	11AX40SISO	Ant1	-11.33	-7.20	1.91	2.22	≤30.00	PASS

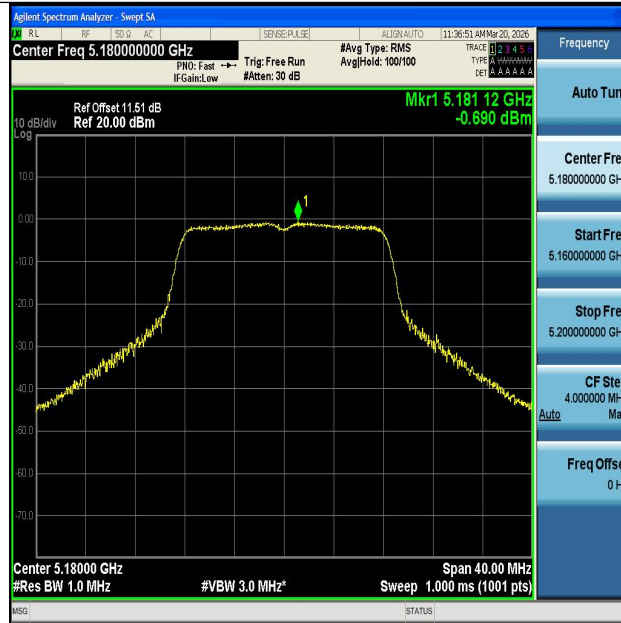
Note:1.Power density(dBm/500kHz) = Power density(dBm/300kHz)+10*log(500/300).

2.The Total PSD(dBm/500kHz) = 10*log {10^(Ant 1 PSD/10) + 10^(Ant 2 PSD/10)}(dBm/500kHz).

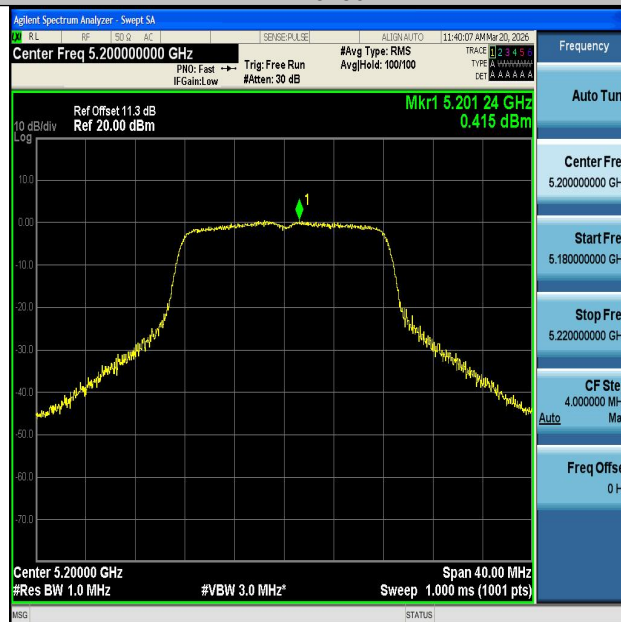
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Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



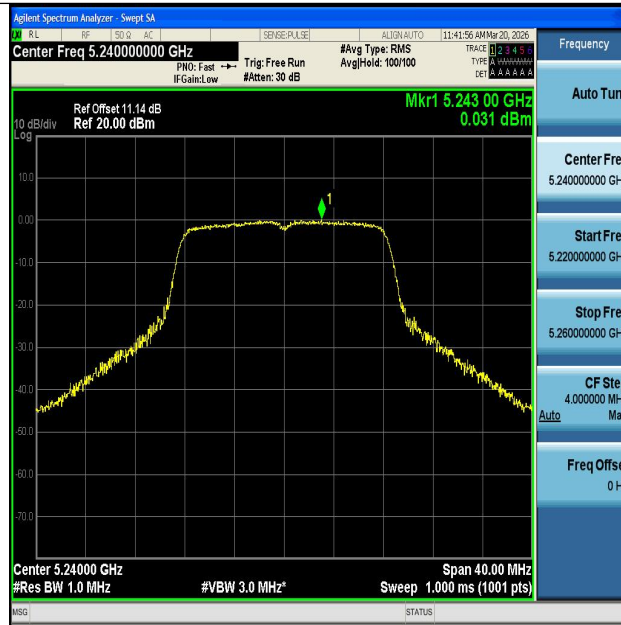
11A-Ant1-5180-PASS



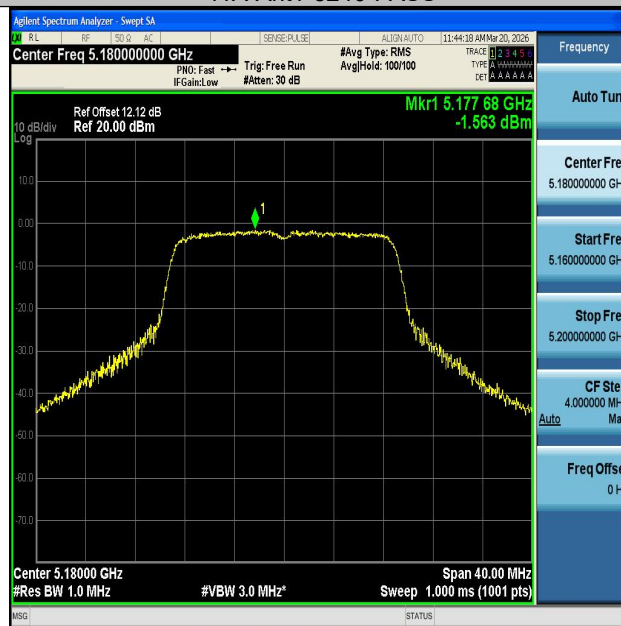
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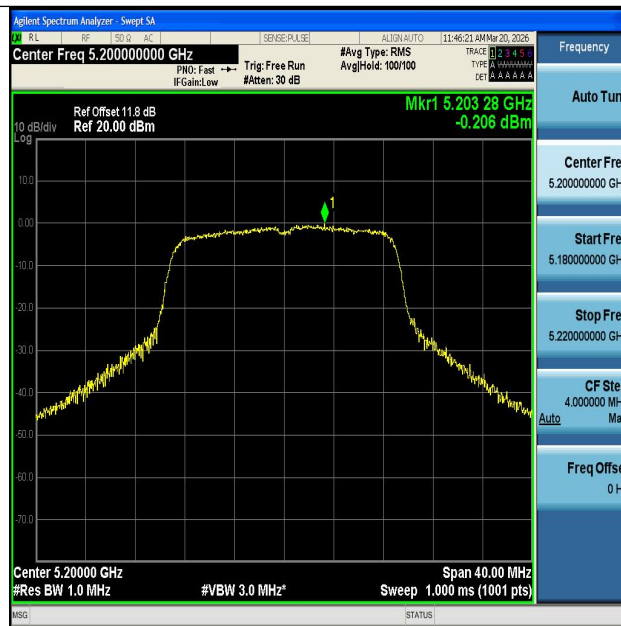
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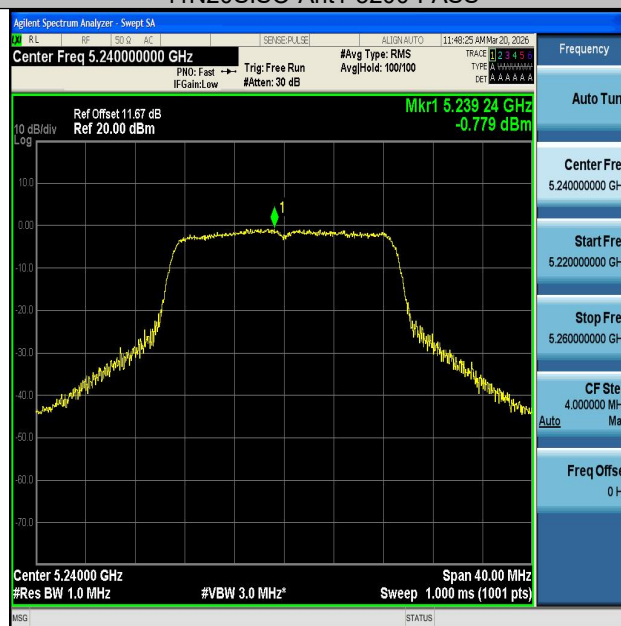
11N20SISO-Ant1-5180-PASS

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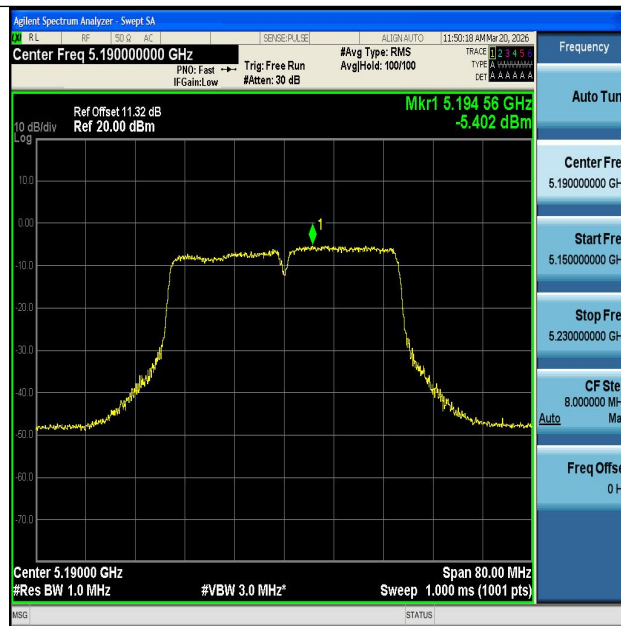
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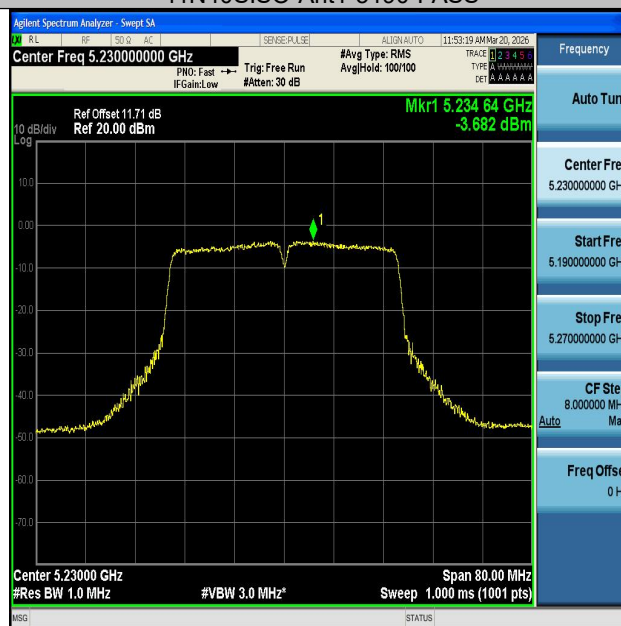
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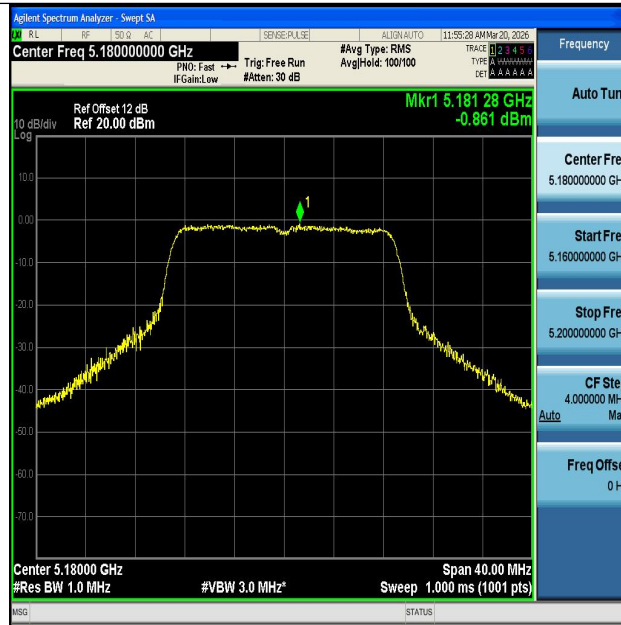
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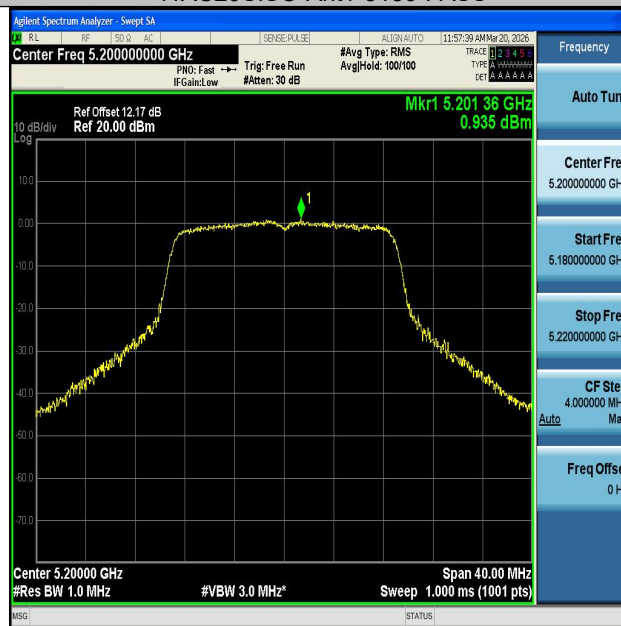
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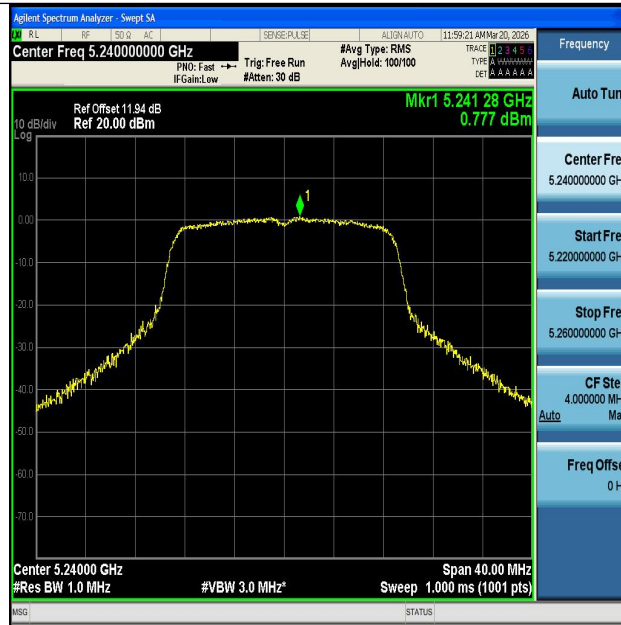
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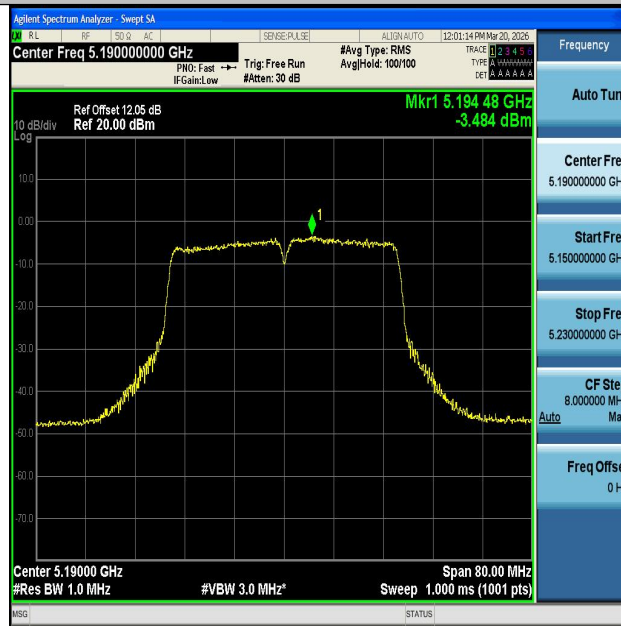
11AC20SISO-Ant1-5200-PASS

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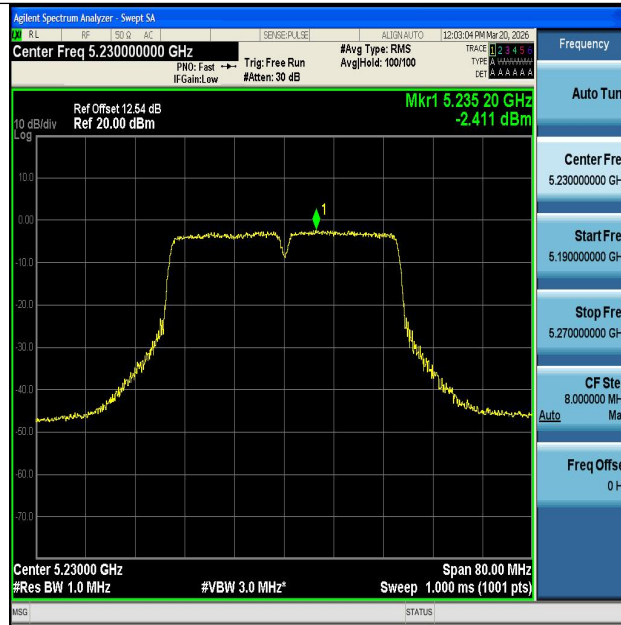


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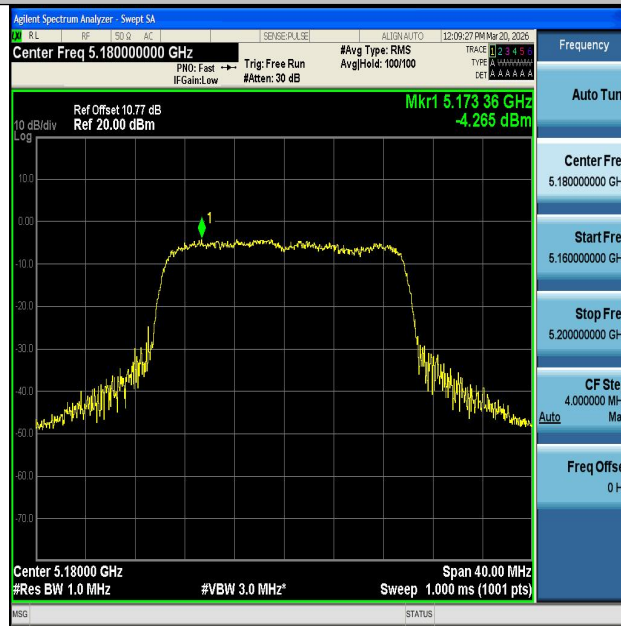


11AC40SISO-Ant1-5190-PASS

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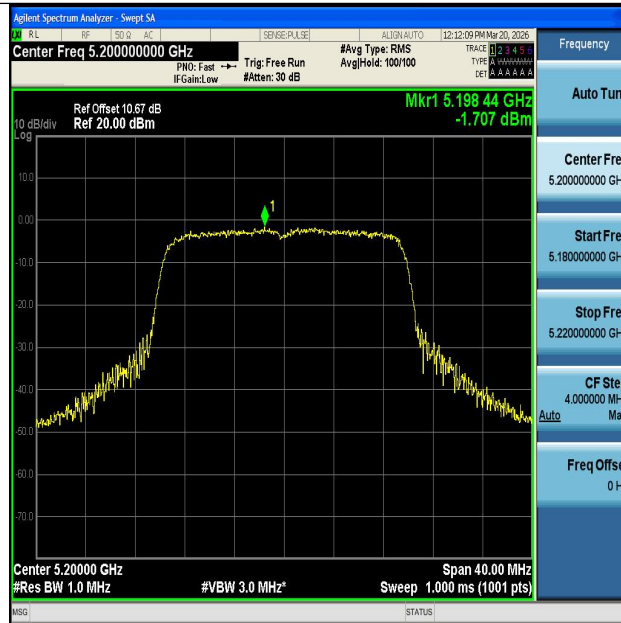
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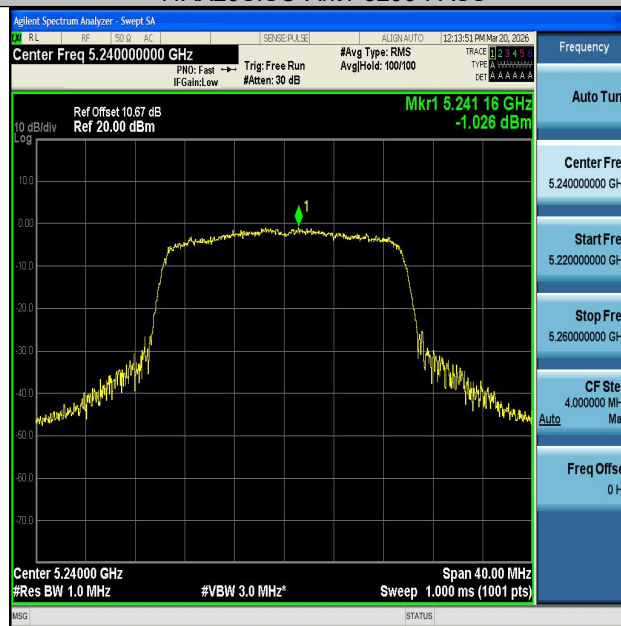
11AX20SISO-Ant1-5180-PASS

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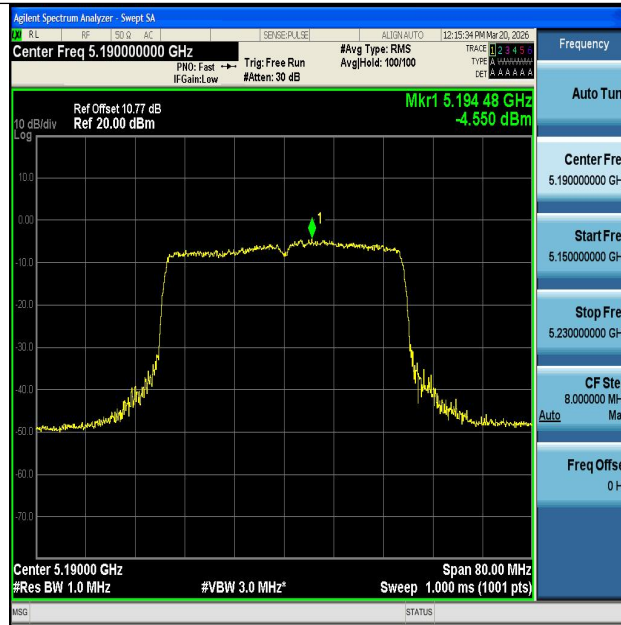
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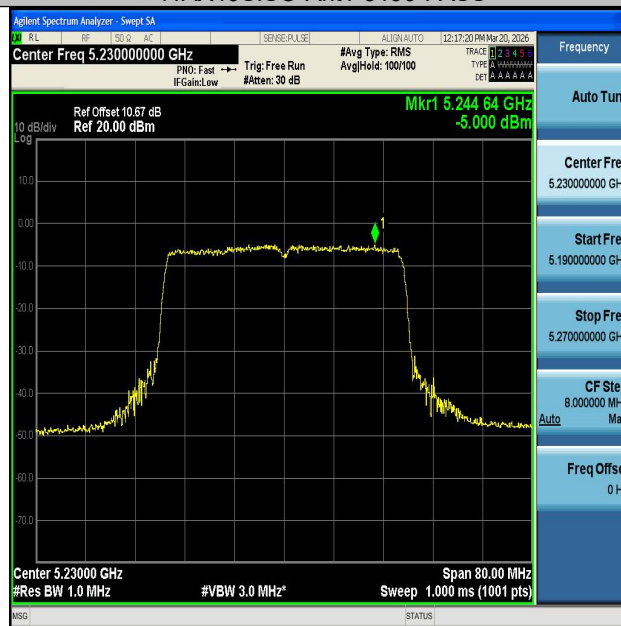
11AX20SISO-Ant1-5240-PASS

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11AX40SISO-Ant1-5190-PASS

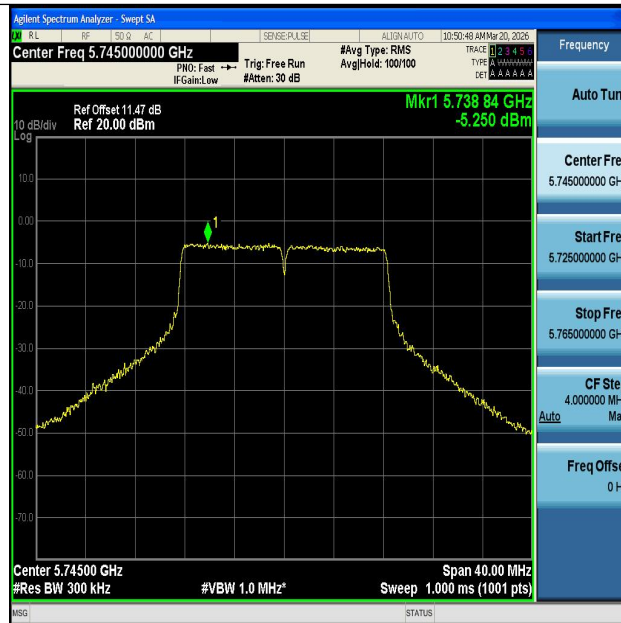


11AX40SISO-Ant1-5230-PASS

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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



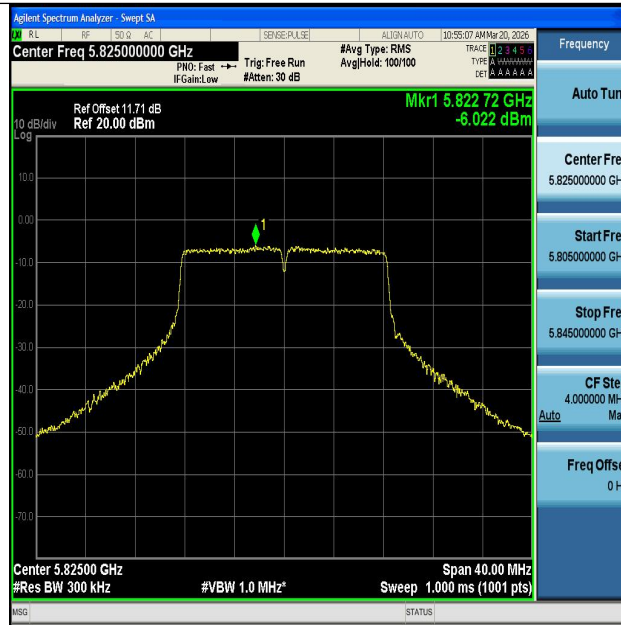
11A-Ant1-5745-PASS



11A-Ant1-5785-PASS

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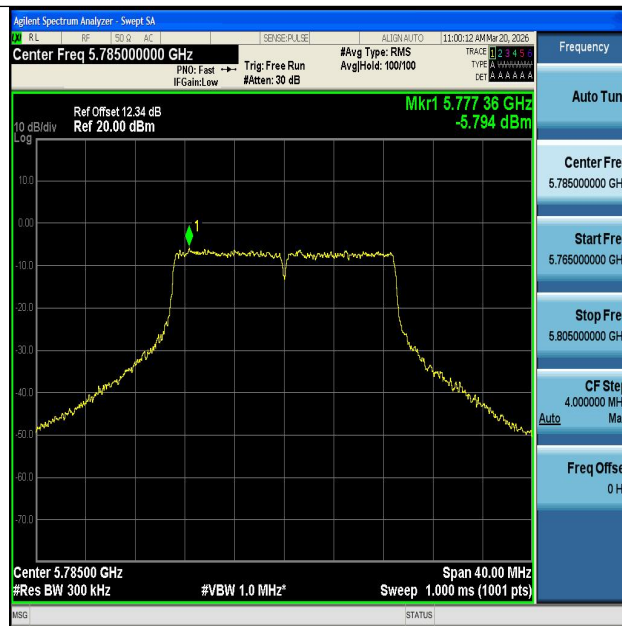
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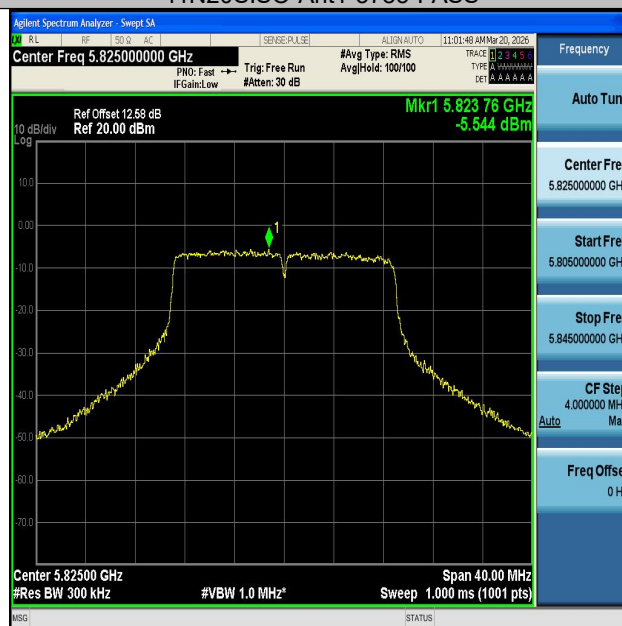
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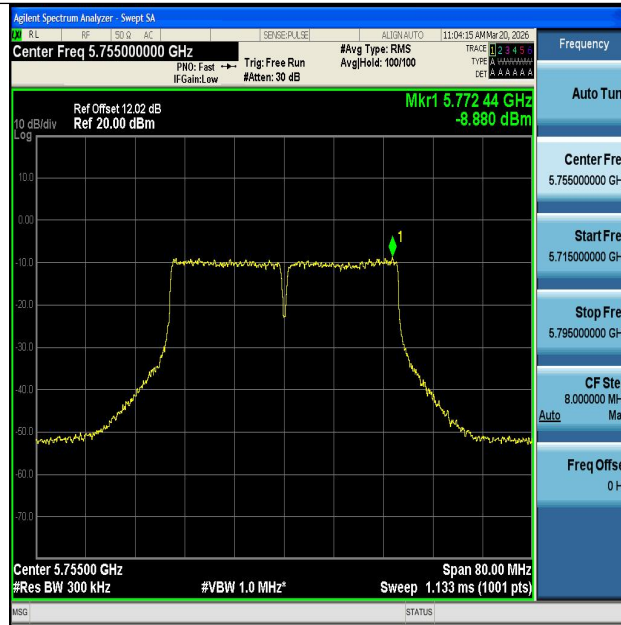
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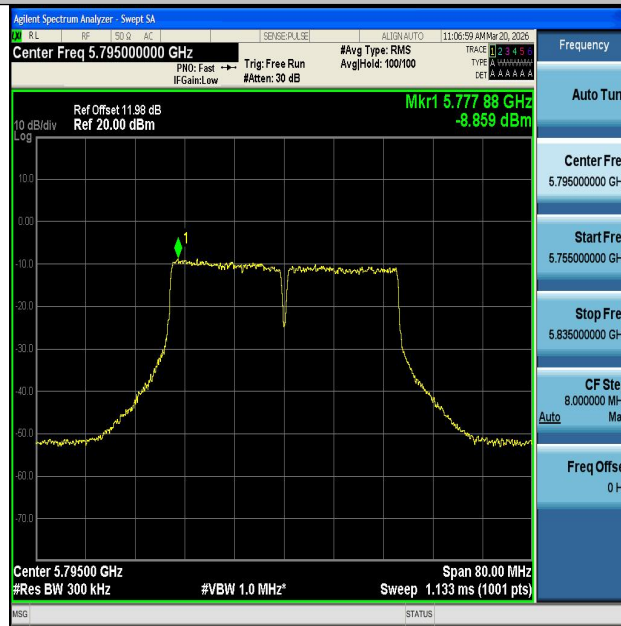
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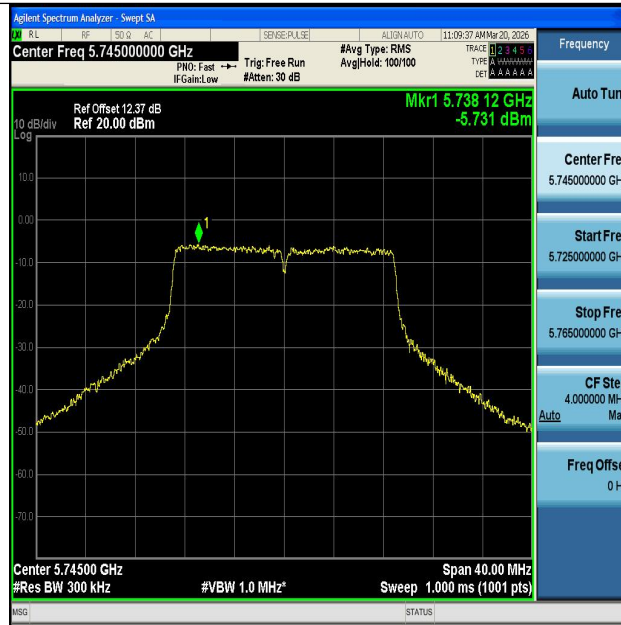
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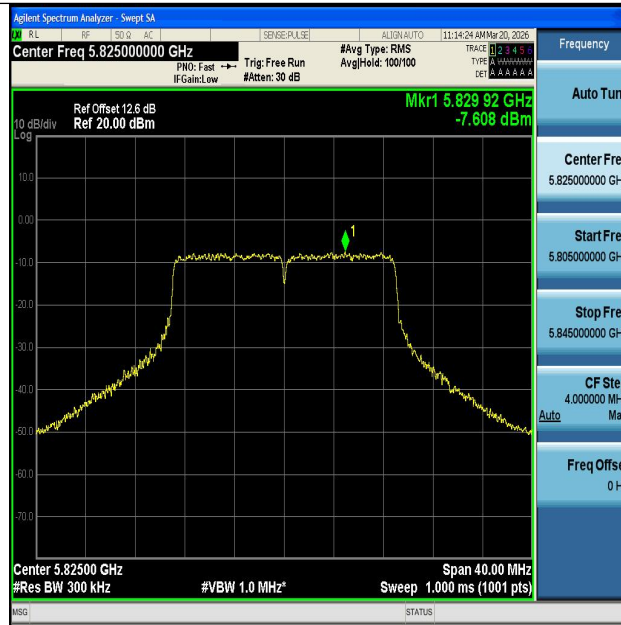
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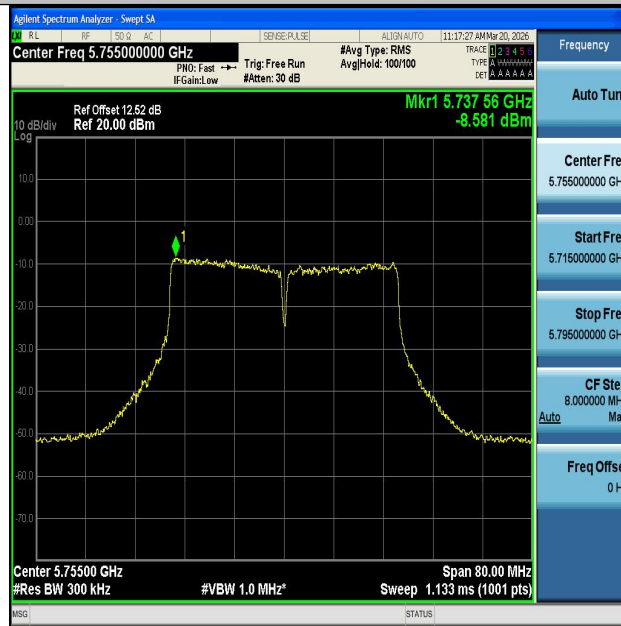
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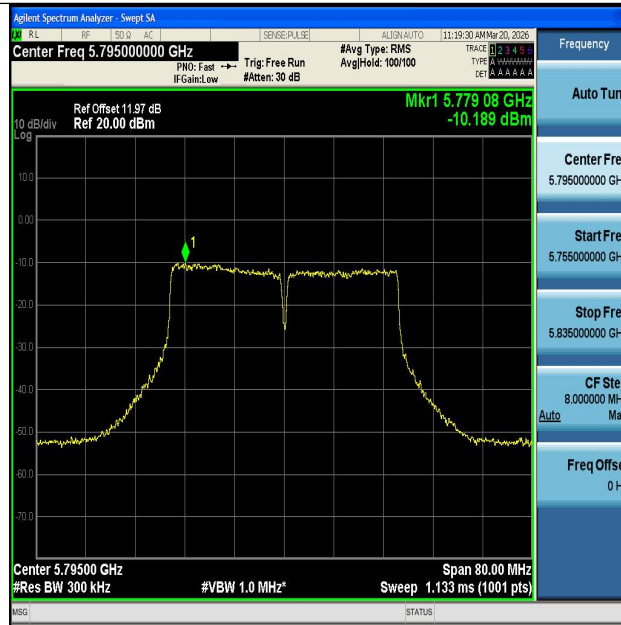
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