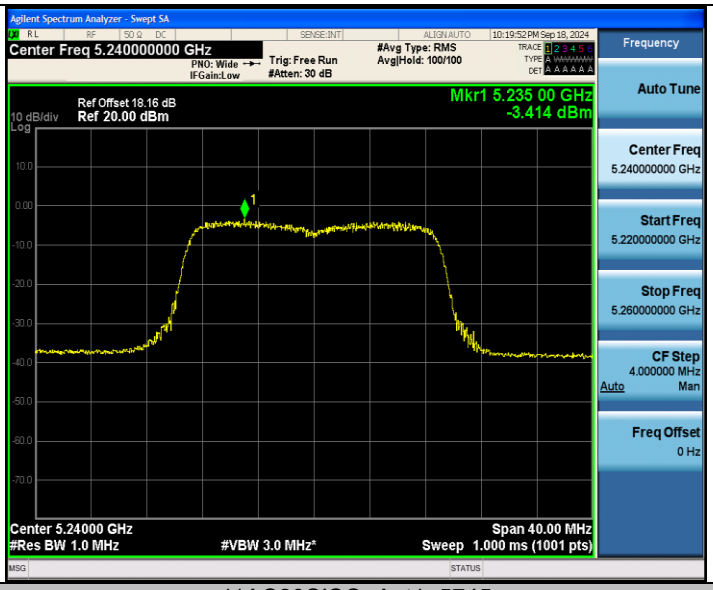
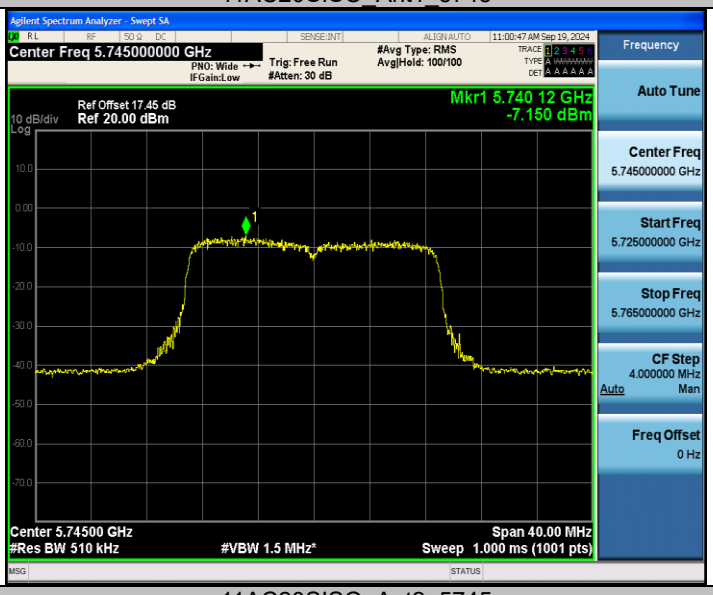


11AC20SISO_Ant1_5745



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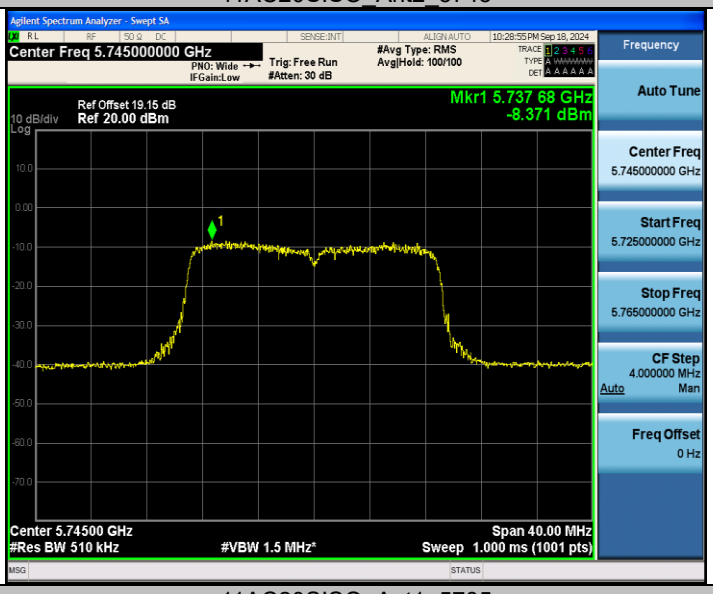

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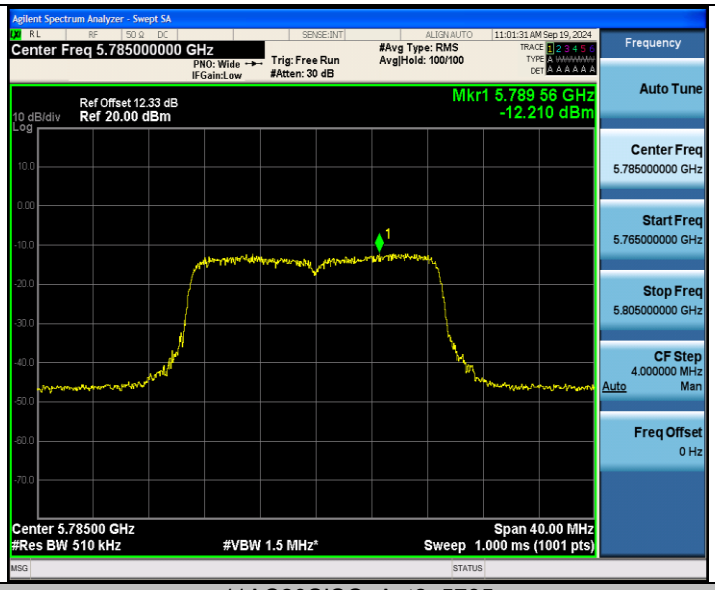

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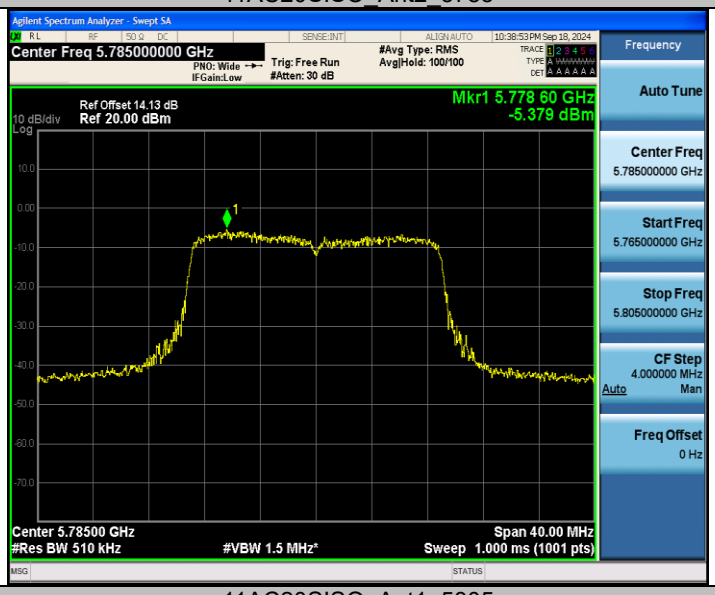

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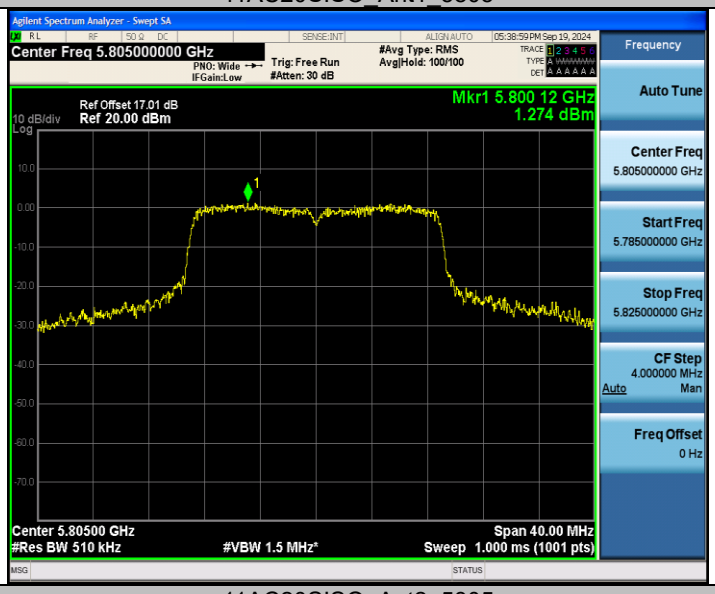

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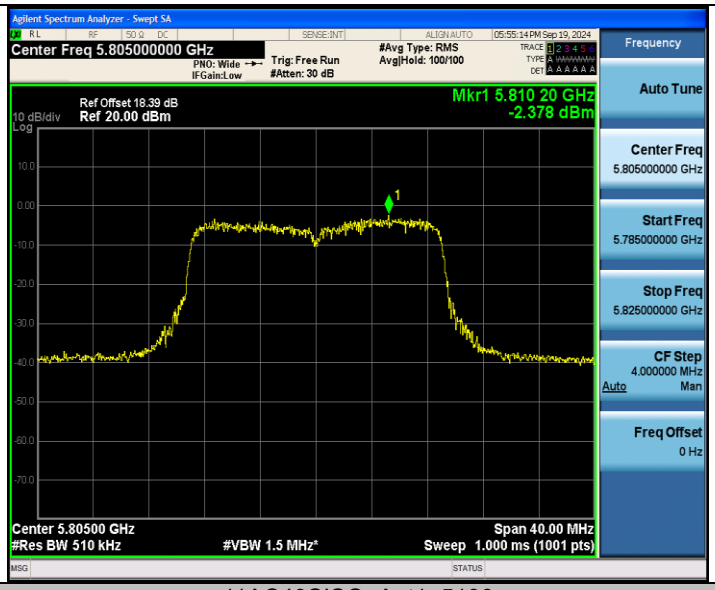

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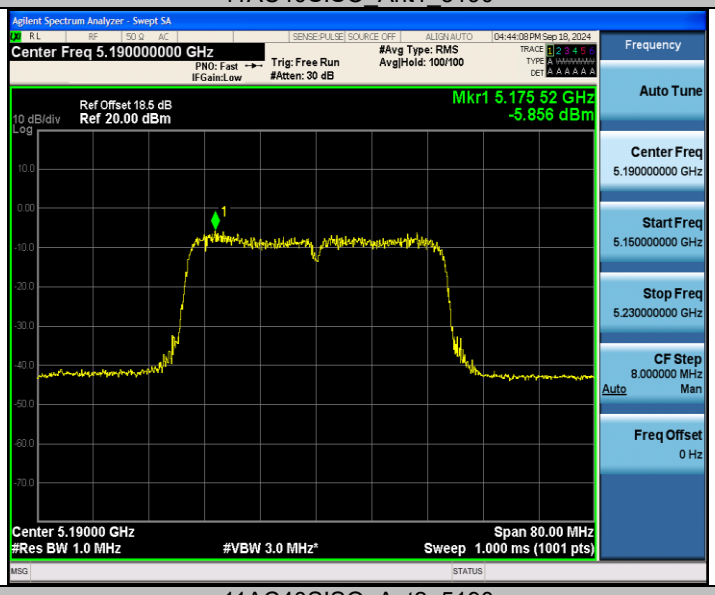
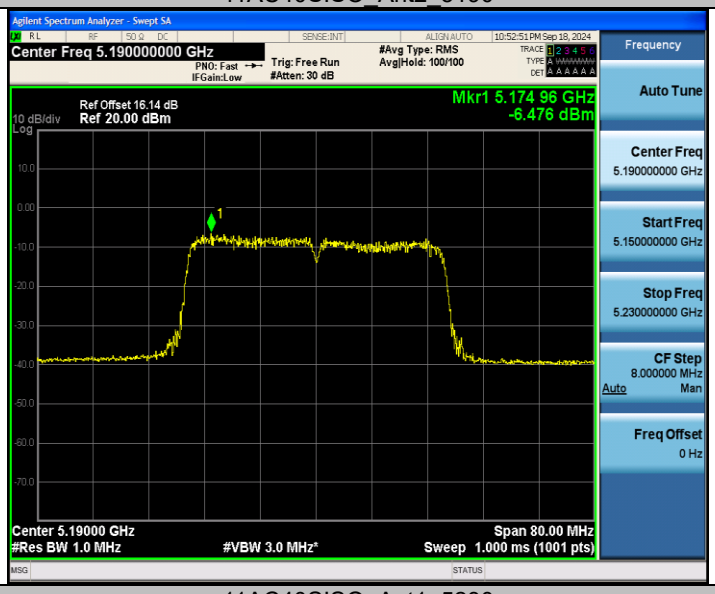


11AC40SISO_Ant2_5190



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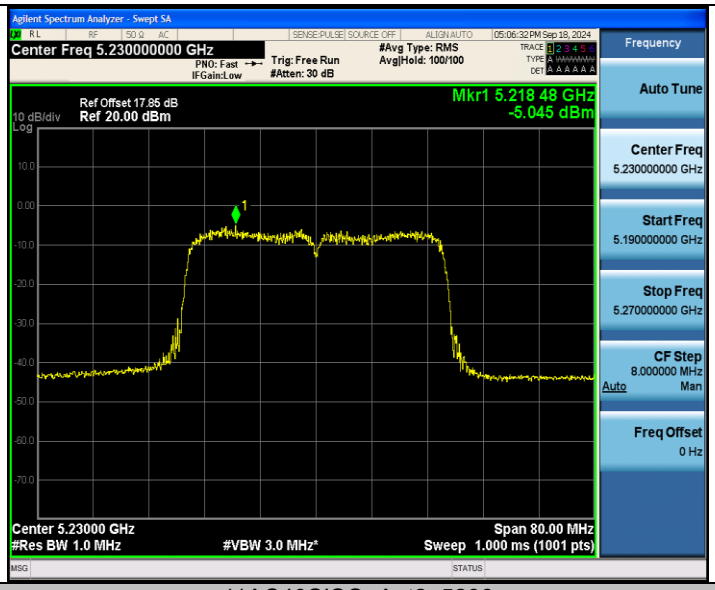

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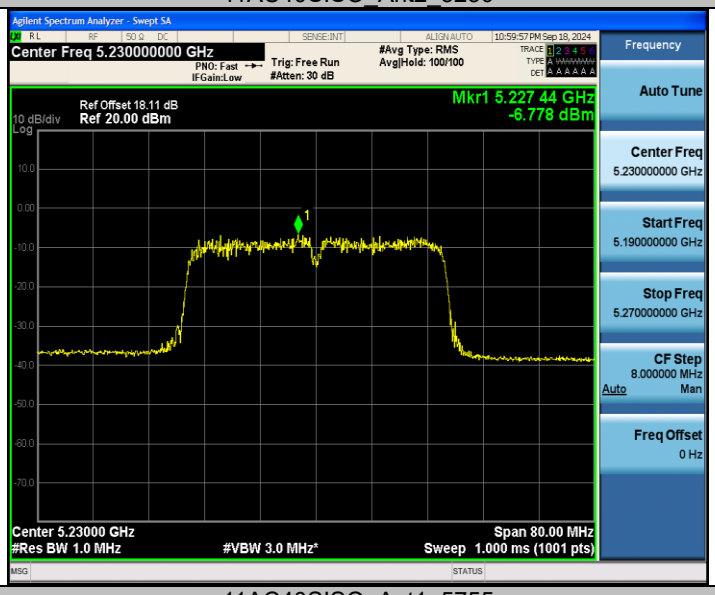

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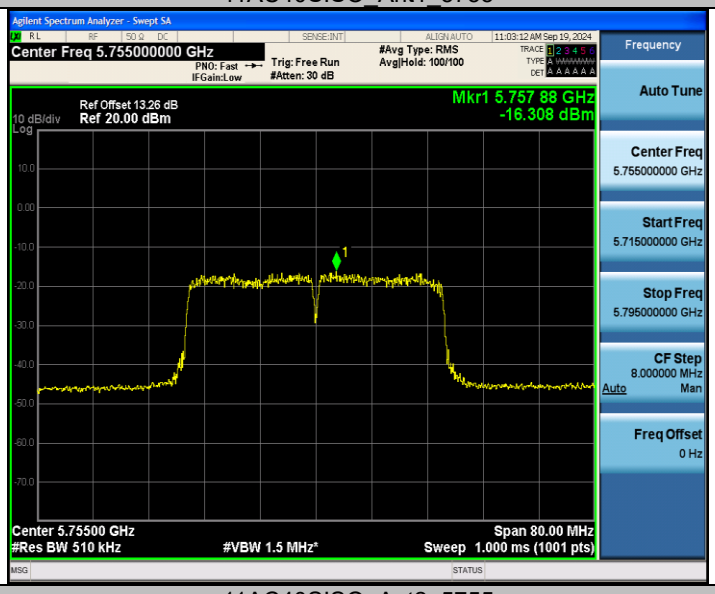

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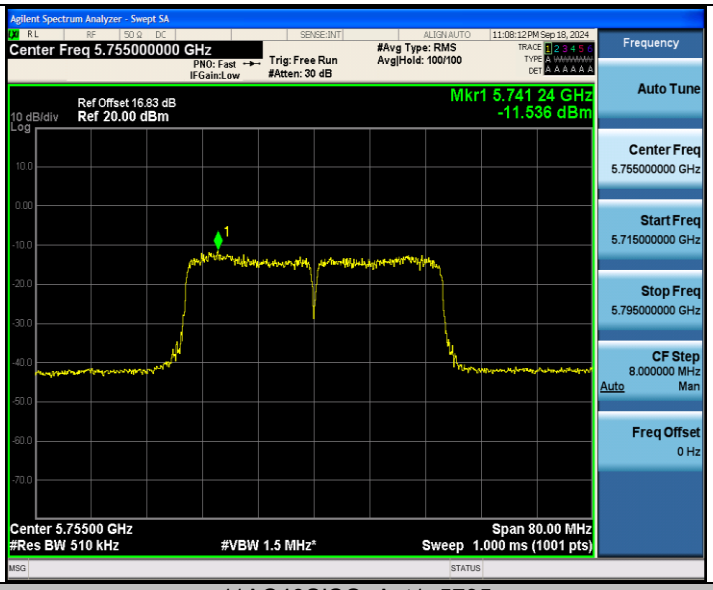

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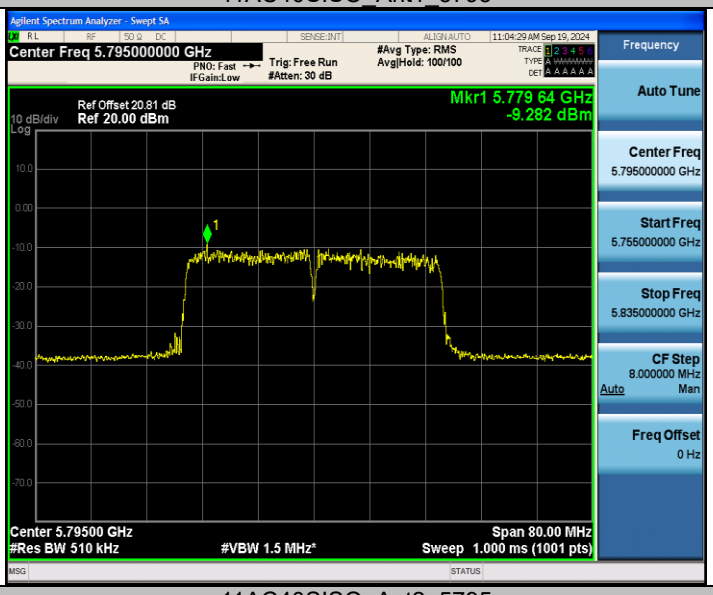

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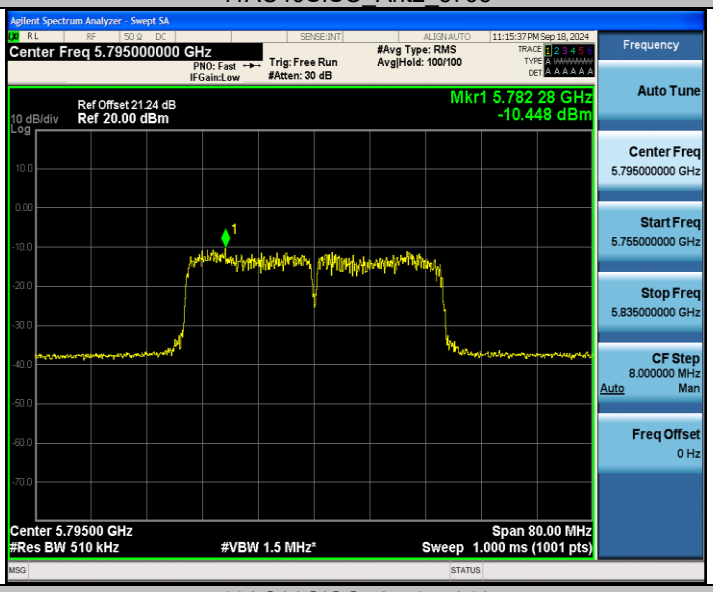

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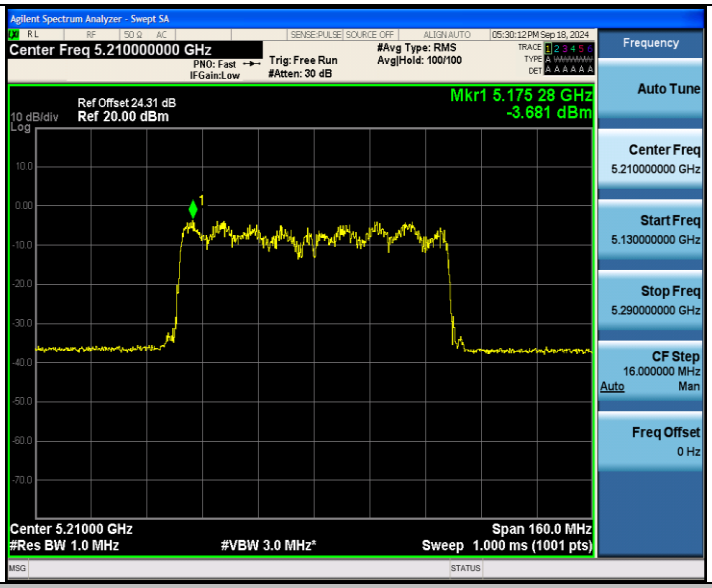
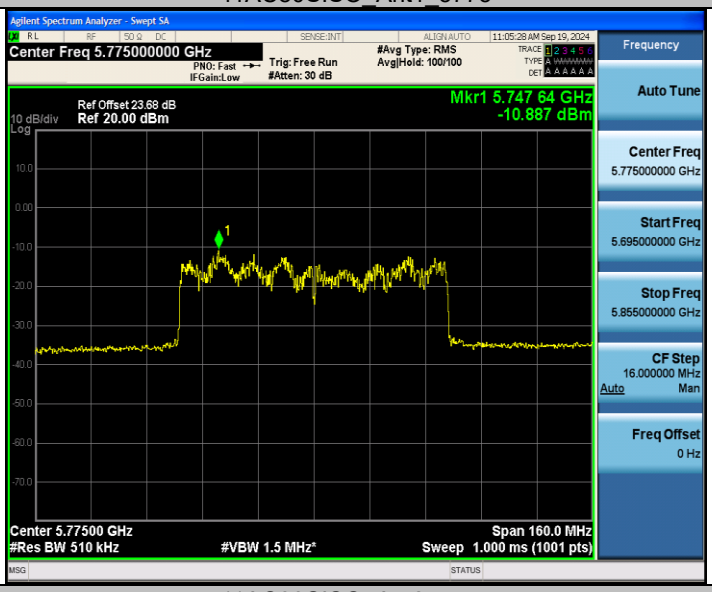


11AC80SISO_Ant2_5210

11AC80SISO_Ant1_5775



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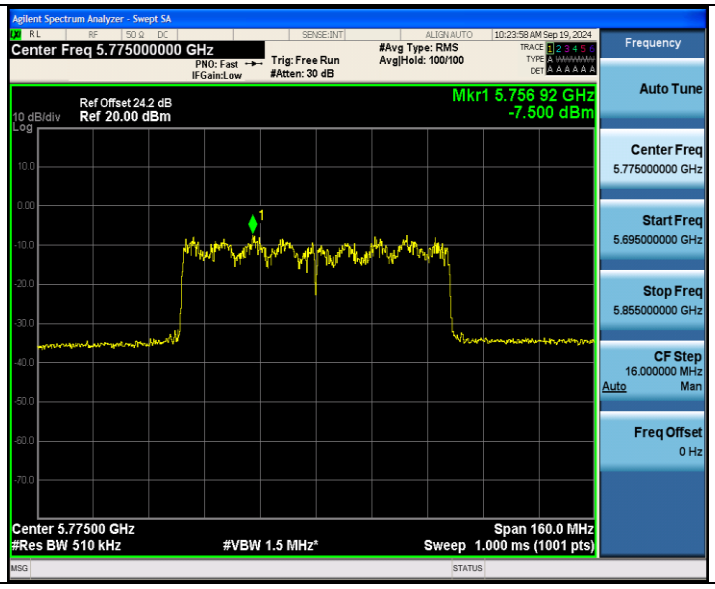
Agilent Spectrum Analyzer - Swept SA
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
10:23:58 AM Sep 19, 2024
Ref Offset 24.2 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.756 92 GHz
-7.500 dBm
Center 5.77500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz*
Span 160.0 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.775000000 GHz
Start Freq
5.695000000 GHz
Stop Freq
5.855000000 GHz
CF Step
16.000000 MHz
Auto
Man
Freq Offset
0 Hz

Appendix G: Frequency Stability

Test Result

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	NV	NT	40000.00	7.722008	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
	Ant1	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	60000.00	11.538462	20	PASS
			HV	NT	60000.00	11.538462	20	PASS
	Ant2	5200	NV	NT	60000.00	11.538462	20	PASS
			LV	NT	60000.00	11.538462	20	PASS
			HV	NT	60000.00	11.538462	20	PASS
	Ant1	5240	NV	NT	40000.00	7.633588	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant2	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	80000.00	15.267176	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant1	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant2	5745	NV	NT	40000.00	6.962576	20	PASS
			LV	NT	60000.00	10.443864	20	PASS
			HV	NT	40000.00	6.962576	20	PASS
	Ant1	5785	NV	NT	40000.00	6.914434	20	PASS
			LV	NT	40000.00	6.914434	20	PASS
			HV	NT	40000.00	6.914434	20	PASS
	Ant2	5785	NV	NT	60000.00	10.371651	20	PASS
			LV	NT	60000.00	10.371651	20	PASS
			HV	NT	60000.00	10.371651	20	PASS
	Ant1	5805	NV	NT	40000.00	6.890612	20	PASS
			LV	NT	80000.00	13.781223	20	PASS
			HV	NT	60000.00	10.335917	20	PASS
	Ant2	5805	NV	NT	60000.00	10.335917	20	PASS
			LV	NT	60000.00	10.335917	20	PASS
			HV	NT	60000.00	10.335917	20	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	40000.00	7.722008	20	PASS
	Ant2	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	60000.00	11.583012	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	60000.00	11.583012	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
			NV	50	40000.00	7.722008	20	PASS

	Ant1	5200	NV	-30	40000.00	7.692308	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	60000.00	11.538462	20	PASS
			NV	10	60000.00	11.538462	20	PASS
			NV	20	60000.00	11.538462	20	PASS
			NV	30	60000.00	11.538462	20	PASS
			NV	40	60000.00	11.538462	20	PASS
			NV	50	60000.00	11.538462	20	PASS
	Ant2	5200	NV	-30	60000.00	11.538462	20	PASS
			NV	-20	60000.00	11.538462	20	PASS
			NV	-10	60000.00	11.538462	20	PASS
			NV	0	60000.00	11.538462	20	PASS
			NV	10	60000.00	11.538462	20	PASS
			NV	20	60000.00	11.538462	20	PASS
			NV	30	60000.00	11.538462	20	PASS
			NV	40	60000.00	11.538462	20	PASS
			NV	50	60000.00	11.538462	20	PASS
	Ant1	5240	NV	-30	60000.00	11.450382	20	PASS
			NV	-20	60000.00	11.450382	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	60000.00	11.450382	20	PASS
			NV	40	60000.00	11.450382	20	PASS
			NV	50	60000.00	11.450382	20	PASS
	Ant2	5240	NV	-30	60000.00	11.450382	20	PASS
			NV	-20	60000.00	11.450382	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
			NV	20	60000.00	11.450382	20	PASS
			NV	30	60000.00	11.450382	20	PASS
			NV	40	60000.00	11.450382	20	PASS
			NV	50	80000.00	15.267176	20	PASS
	Ant1	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	40000.00	6.962576	20	PASS
			NV	50	20000.00	3.481288	20	PASS
	Ant2	5745	NV	-30	60000.00	10.443864	20	PASS
			NV	-20	60000.00	10.443864	20	PASS
			NV	-10	60000.00	10.443864	20	PASS
			NV	0	40000.00	6.962576	20	PASS
			NV	10	60000.00	10.443864	20	PASS
			NV	20	60000.00	10.443864	20	PASS
			NV	30	60000.00	10.443864	20	PASS
			NV	40	60000.00	10.443864	20	PASS
			NV	50	40000.00	6.962576	20	PASS
	Ant1	5785	NV	-30	60000.00	10.371651	20	PASS
			NV	-20	60000.00	10.371651	20	PASS
			NV	-10	60000.00	10.371651	20	PASS
			NV	0	60000.00	10.371651	20	PASS
			NV	10	60000.00	10.371651	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	60000.00	10.371651	20	PASS
			NV	40	60000.00	10.371651	20	PASS
			NV	50	40000.00	6.914434	20	PASS
	Ant2	5785	NV	-30	40000.00	6.914434	20	PASS
			NV	-20	60000.00	10.371651	20	PASS
			NV	-10	60000.00	10.371651	20	PASS
			NV	0	60000.00	10.371651	20	PASS

			NV	10	60000.00	10.371651	20	PASS
			NV	20	60000.00	10.371651	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	60000.00	10.371651	20	PASS
			NV	50	60000.00	10.371651	20	PASS
	Ant1	5805	NV	-30	60000.00	10.335917	20	PASS
			NV	-20	60000.00	10.335917	20	PASS
			NV	-10	60000.00	10.335917	20	PASS
			NV	0	60000.00	10.335917	20	PASS
			NV	10	60000.00	10.335917	20	PASS
			NV	20	60000.00	10.335917	20	PASS
			NV	30	60000.00	10.335917	20	PASS
			NV	40	40000.00	6.890612	20	PASS
			NV	50	40000.00	6.890612	20	PASS
	Ant2	5805	NV	-30	60000.00	10.335917	20	PASS
			NV	-20	80000.00	13.781223	20	PASS
			NV	-10	80000.00	13.781223	20	PASS
			NV	0	60000.00	10.335917	20	PASS
			NV	10	60000.00	10.335917	20	PASS
			NV	20	40000.00	6.890612	20	PASS
			NV	30	60000.00	10.335917	20	PASS
			NV	40	60000.00	10.335917	20	PASS
			NV	50	60000.00	10.335917	20	PASS

Photographs of the Test Setup

See the Appendix – Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----