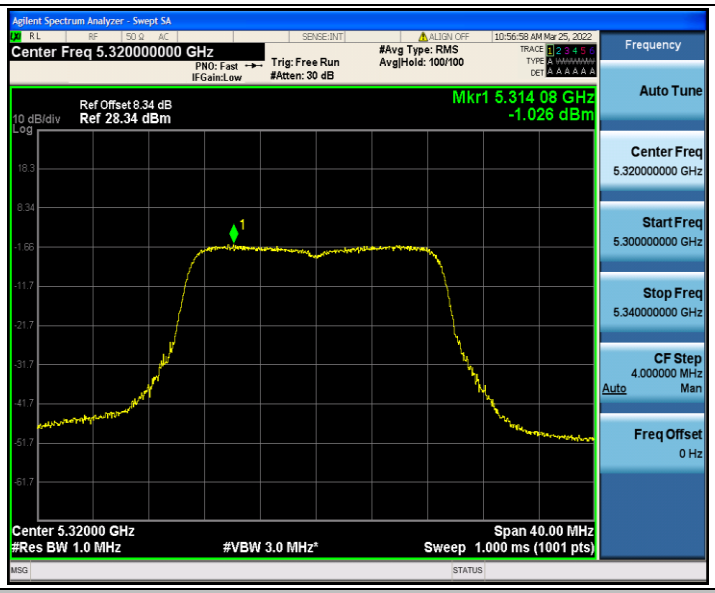
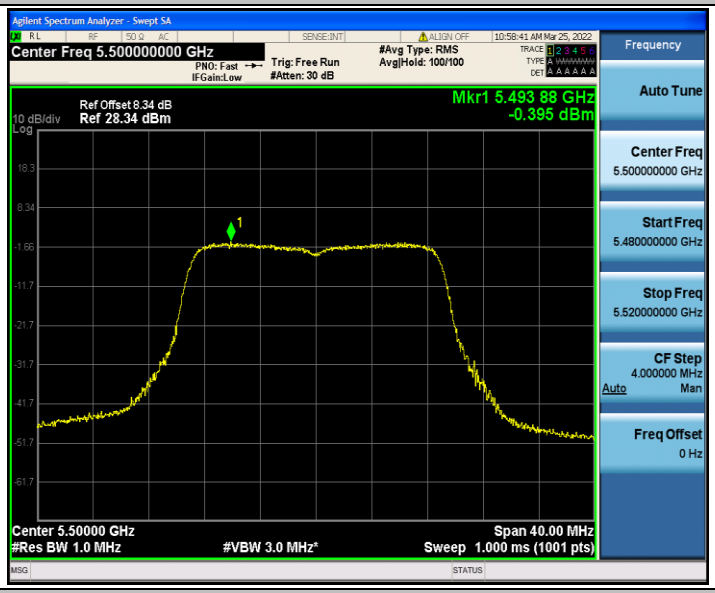


11N20SISO_Ant1_5500



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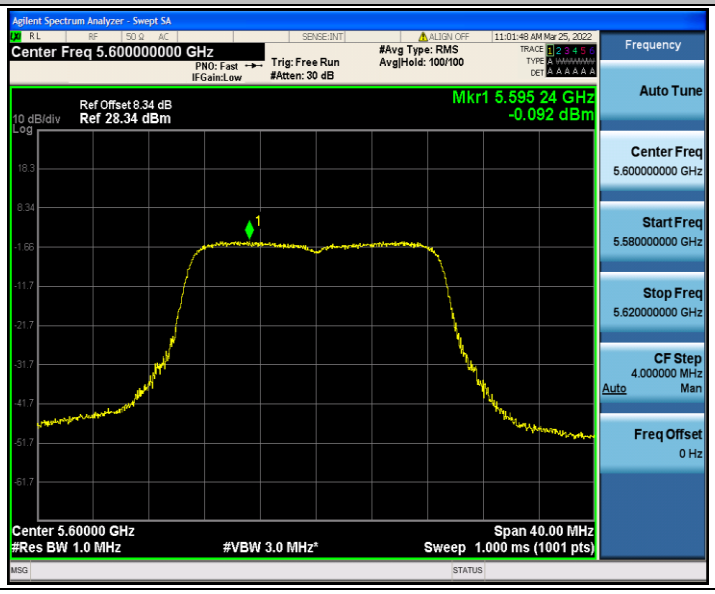

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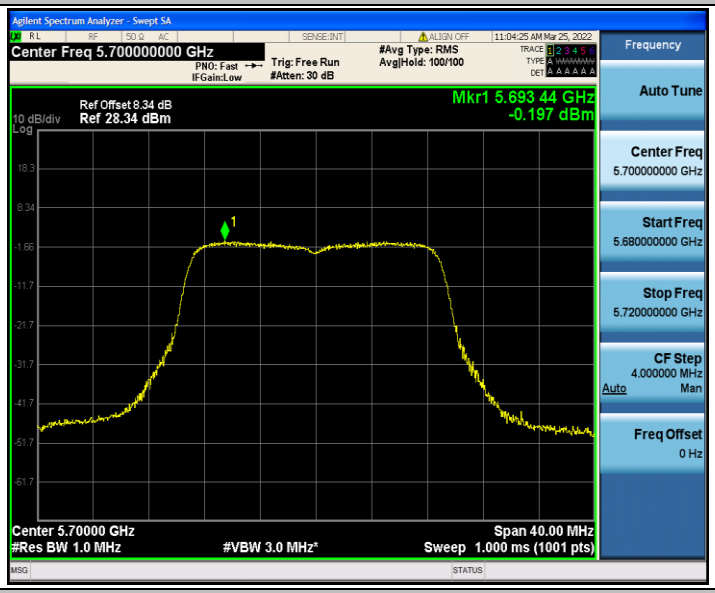

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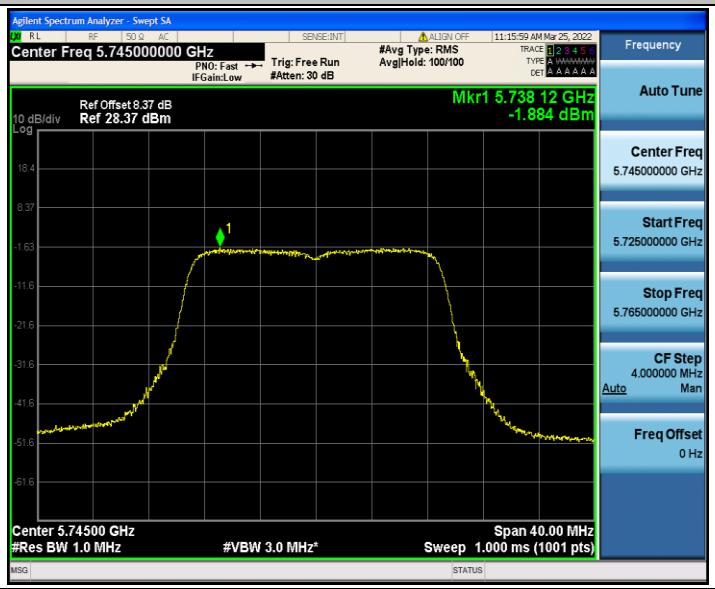

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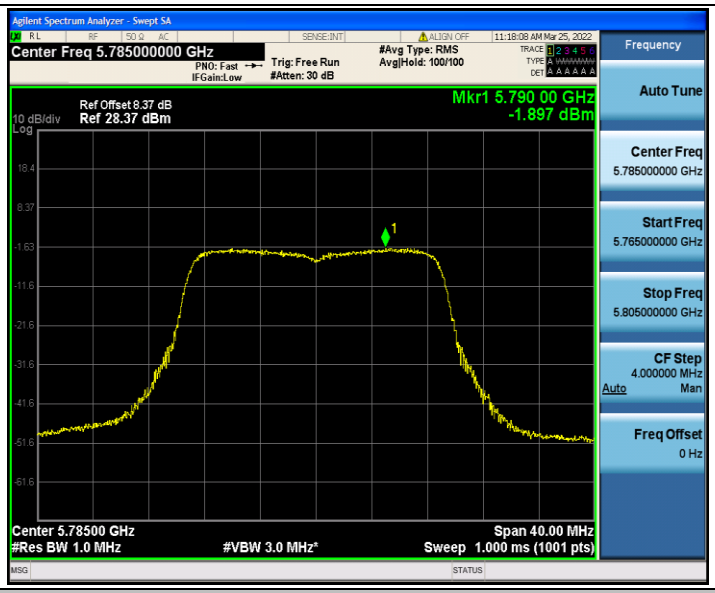
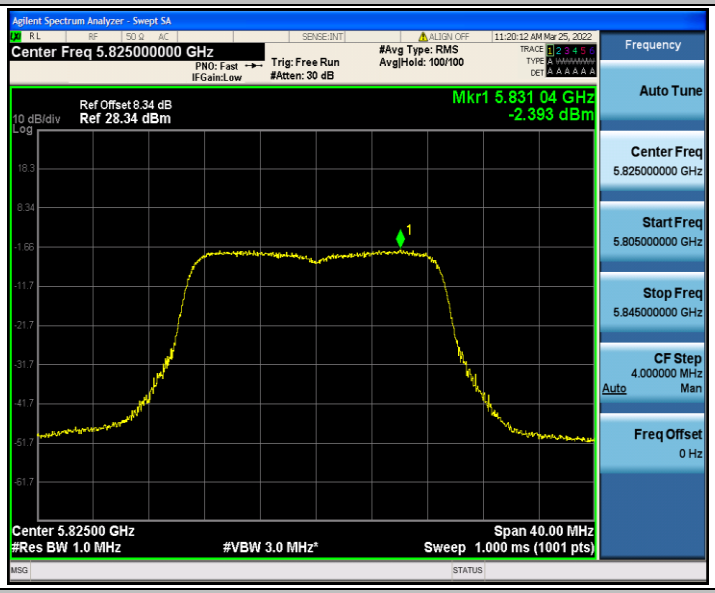


11N20SISO_Ant1_5825



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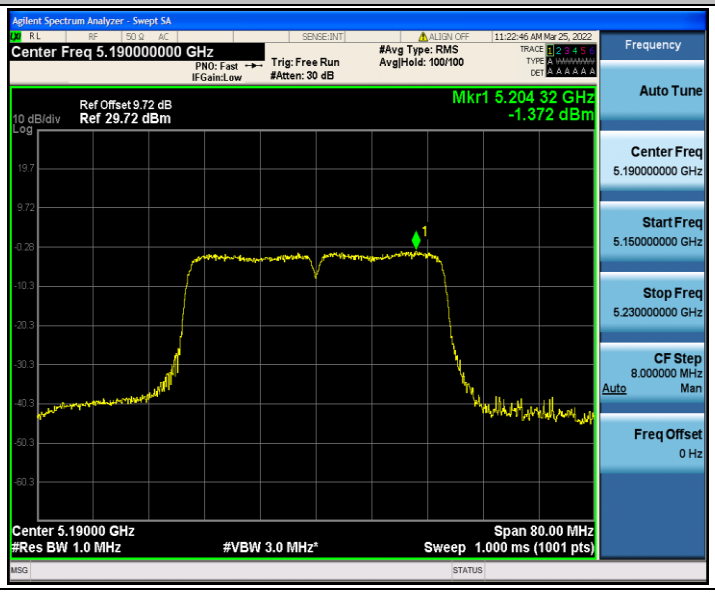

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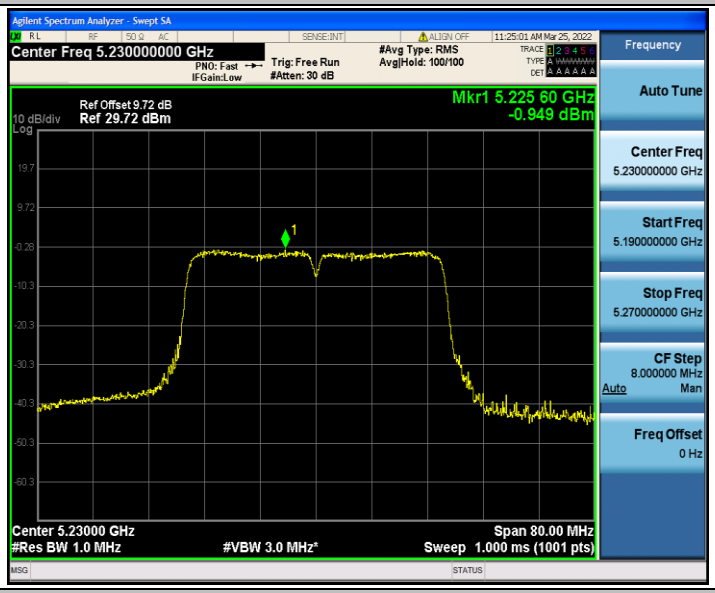

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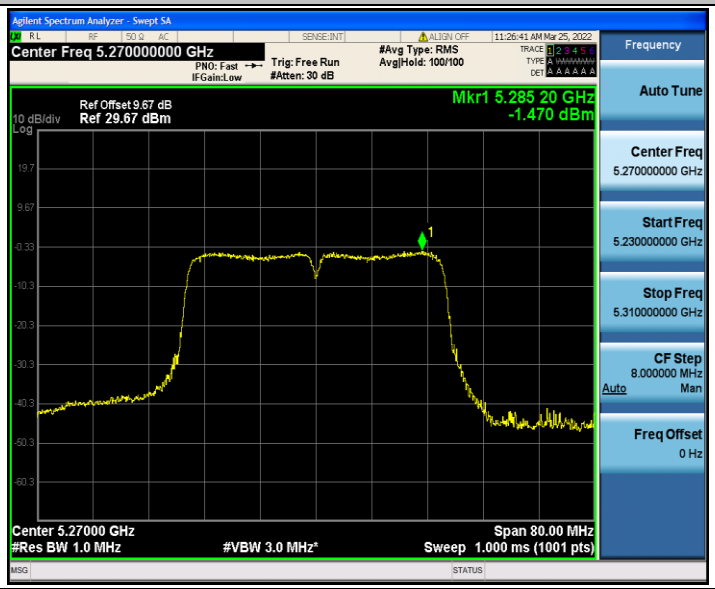

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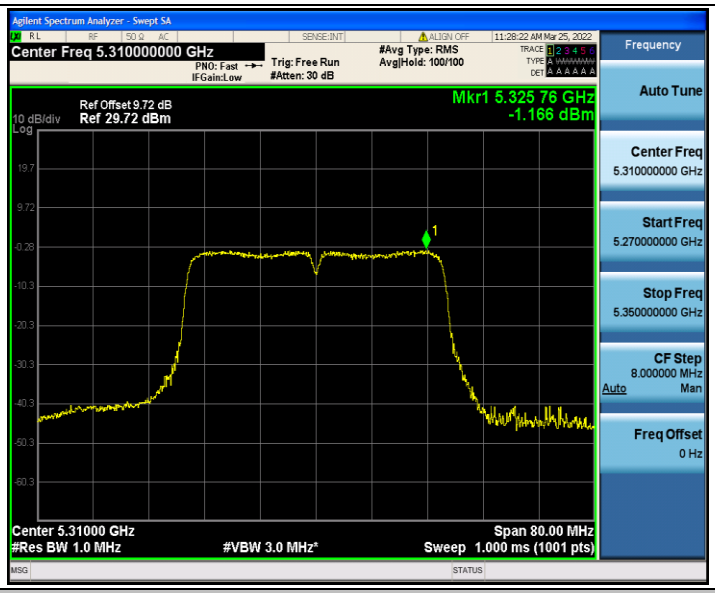
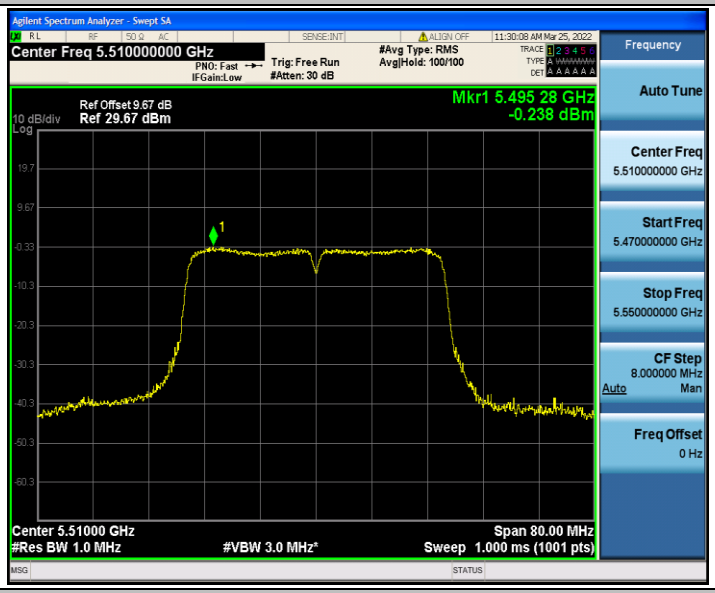
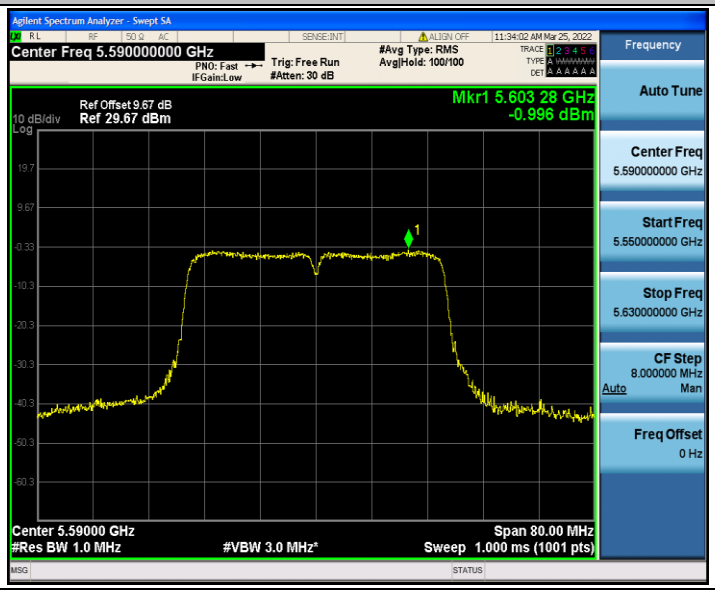


11N40SISO_Ant1_5510



11N40SISO_Ant1_5590



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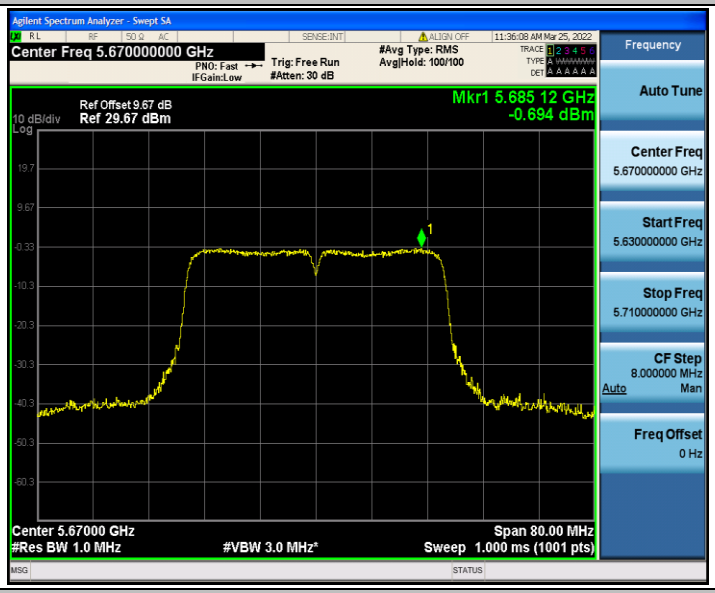
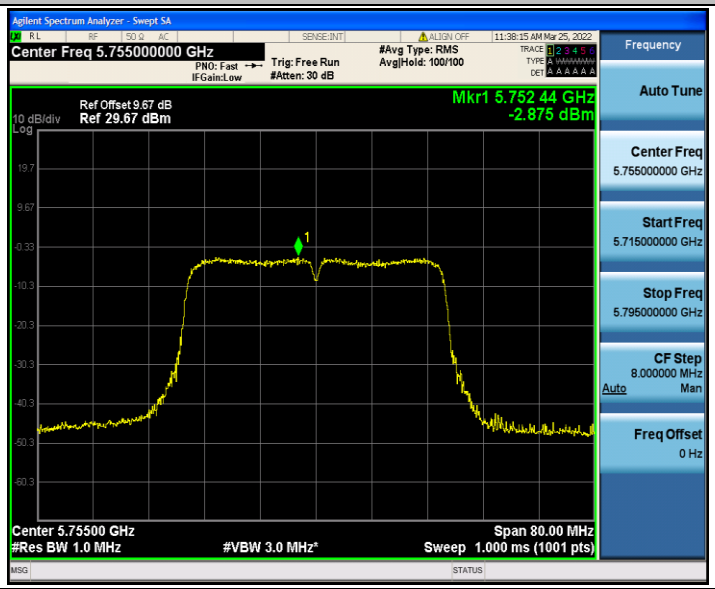


11N40SISO_Ant1_5755



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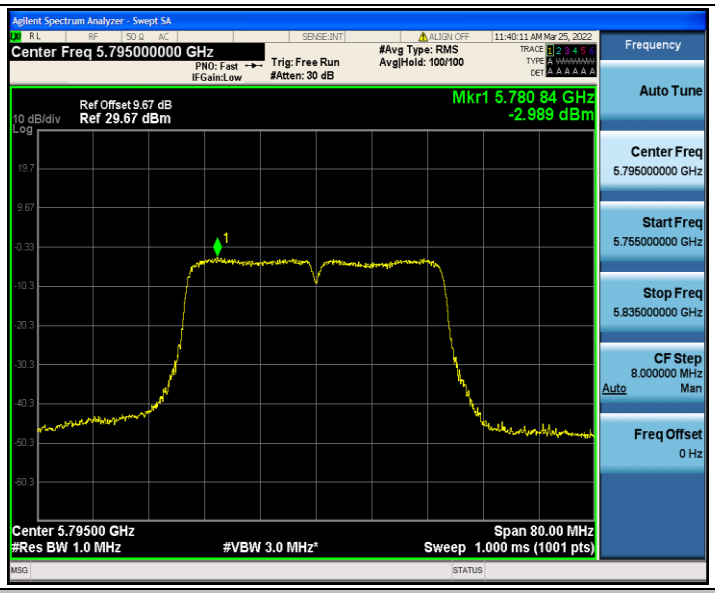
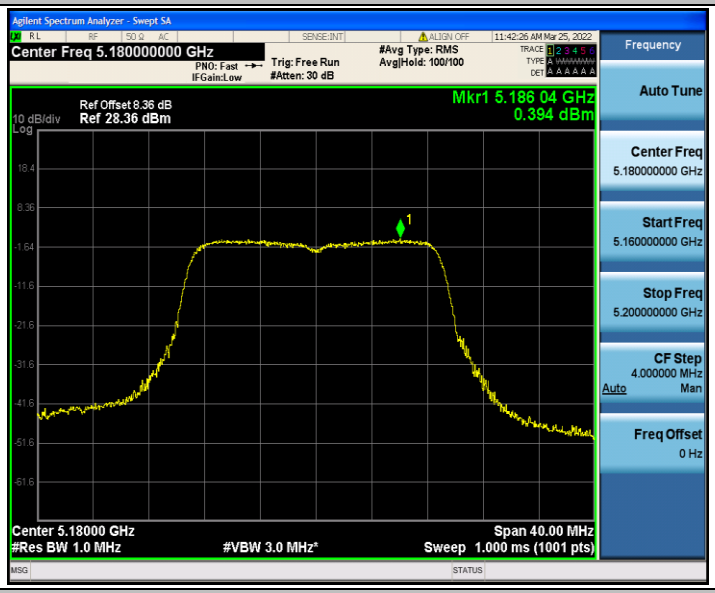


11AC20SISO_Ant1_5180



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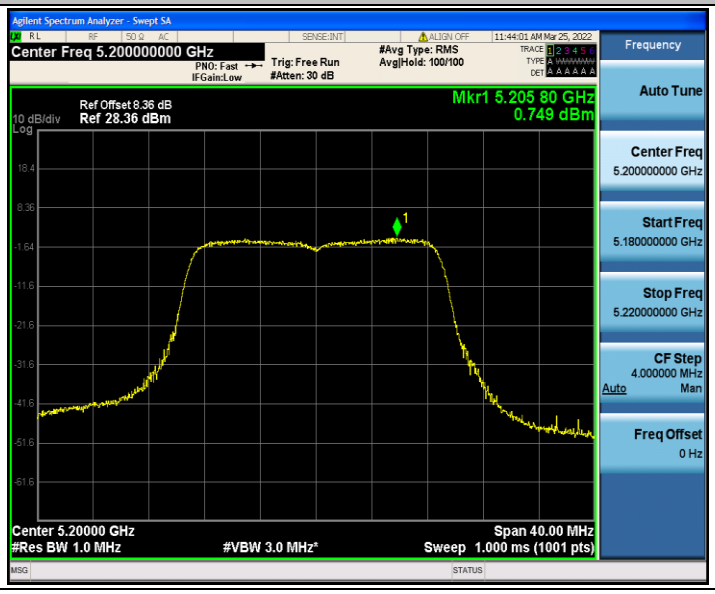

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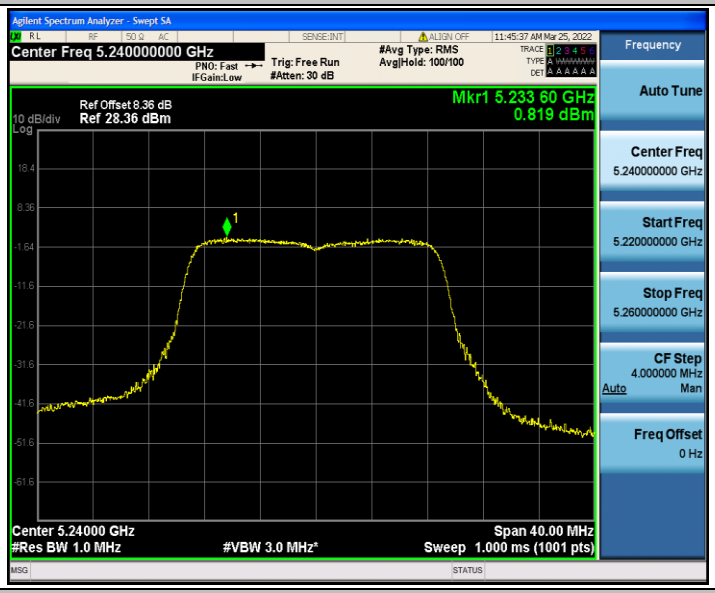

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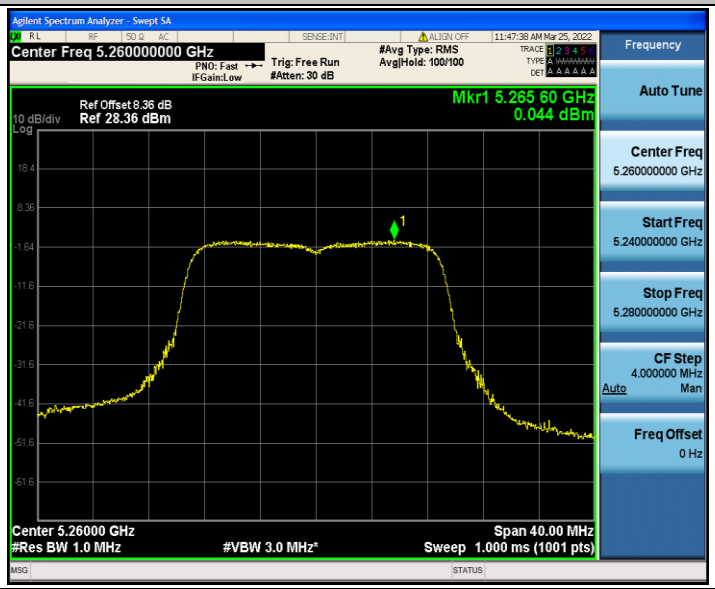
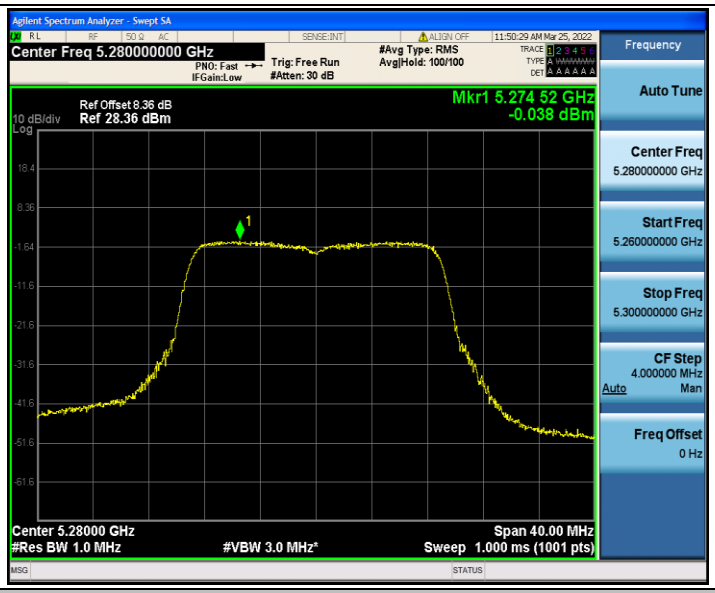


11AC20SISO_Ant1_5280



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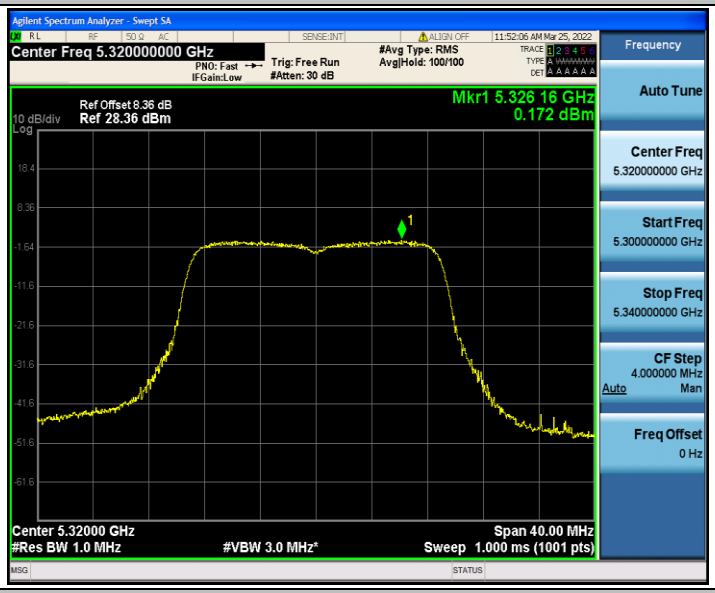
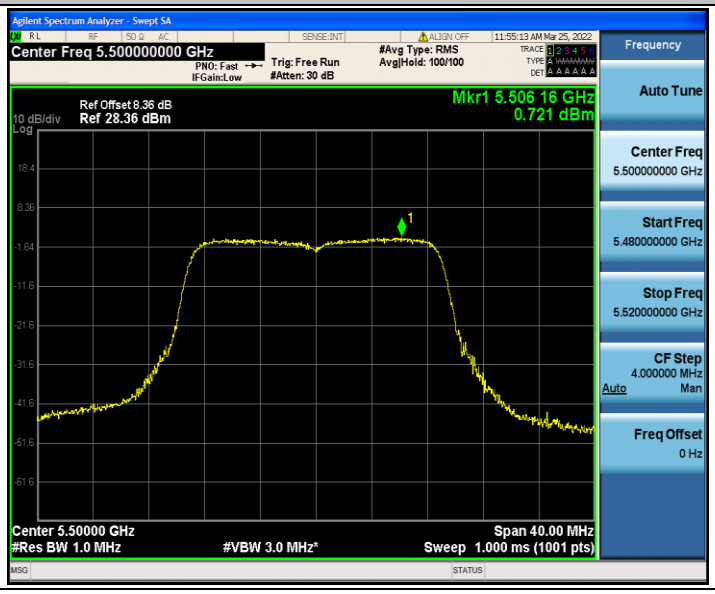


11AC20SISO_Ant1_5500



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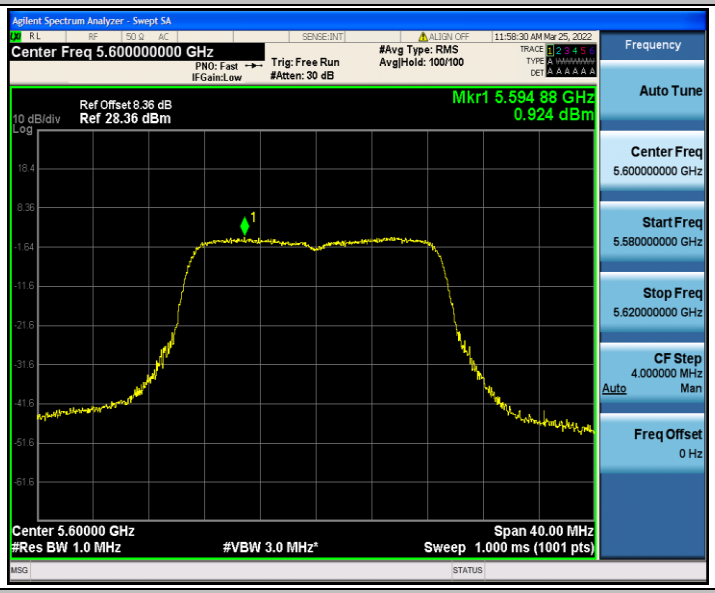

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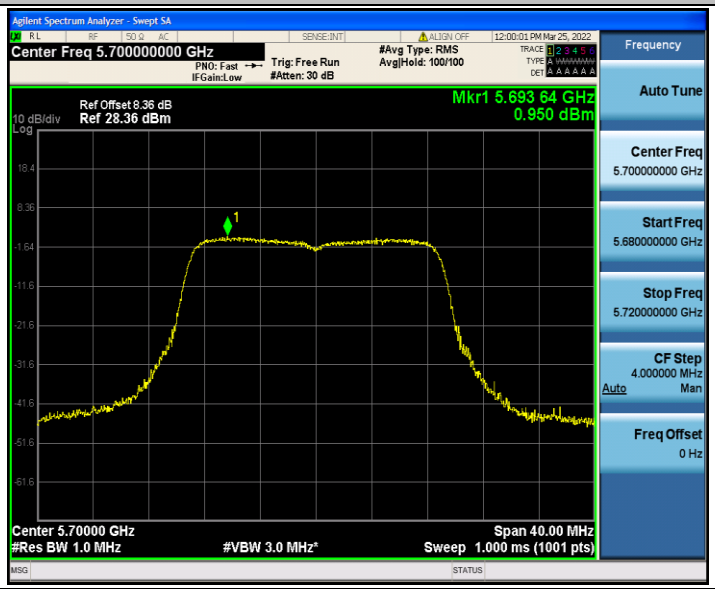

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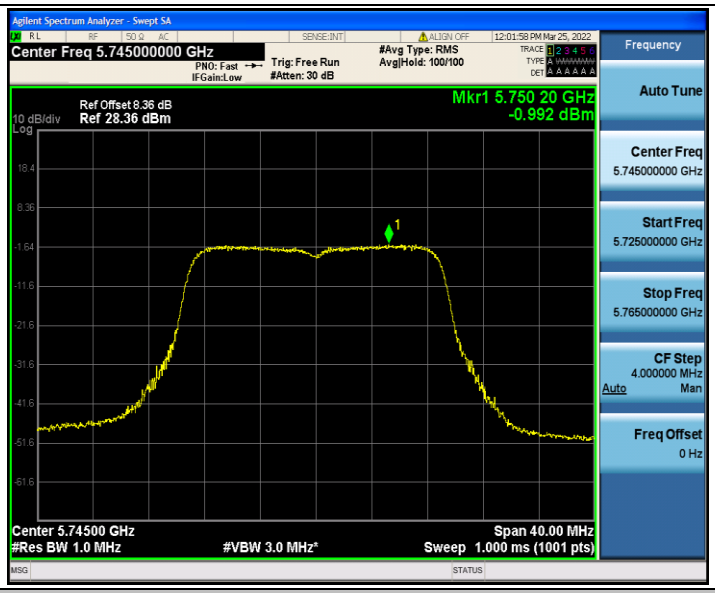

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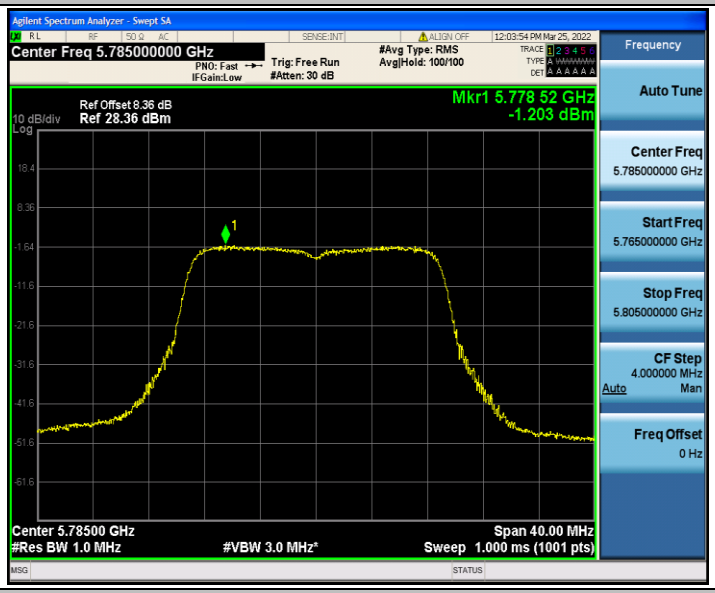

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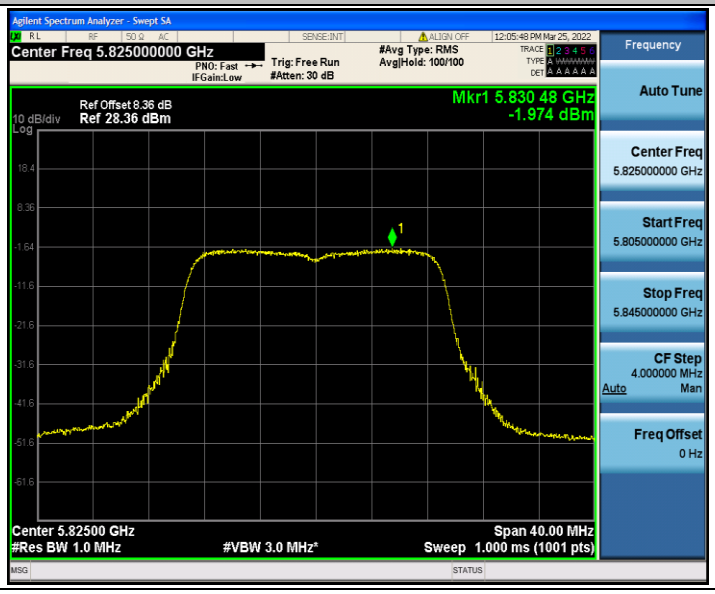

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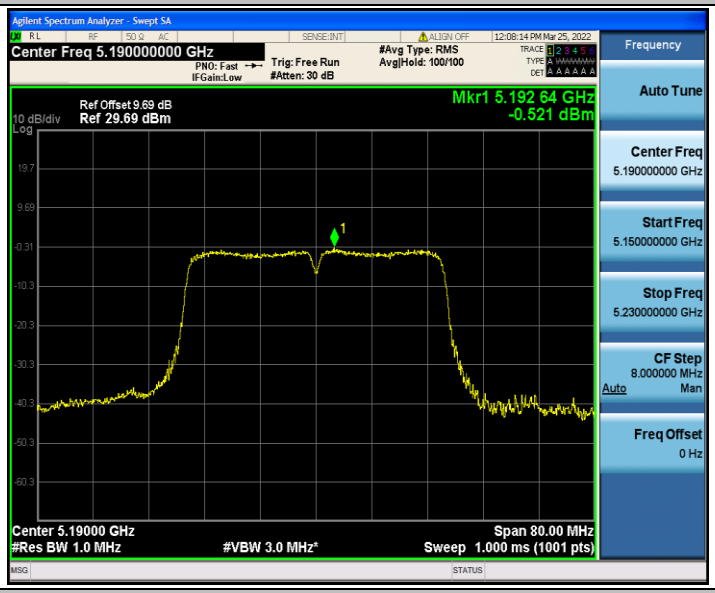

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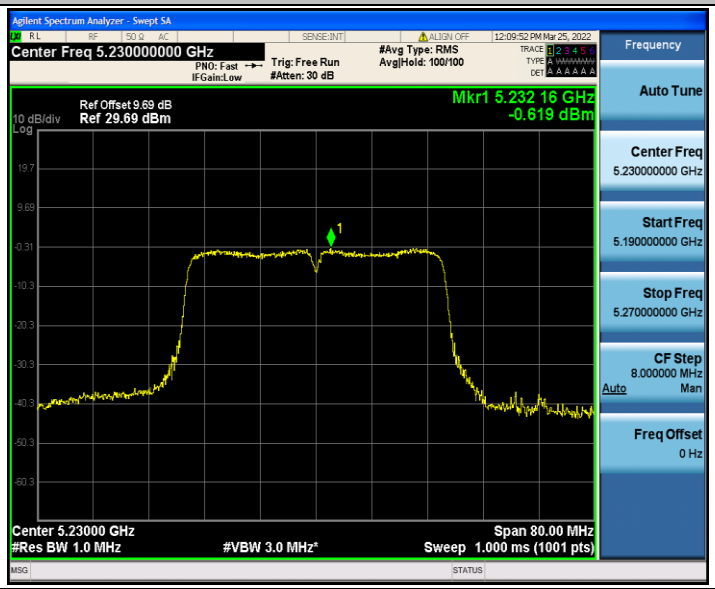

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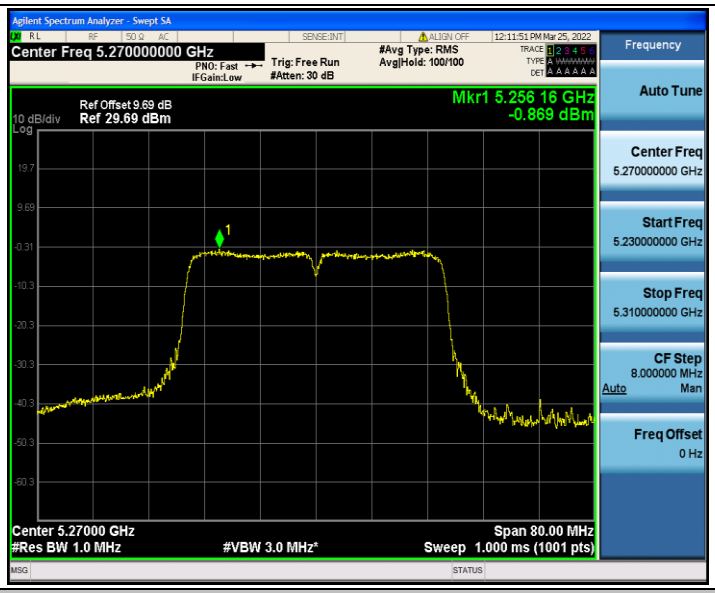

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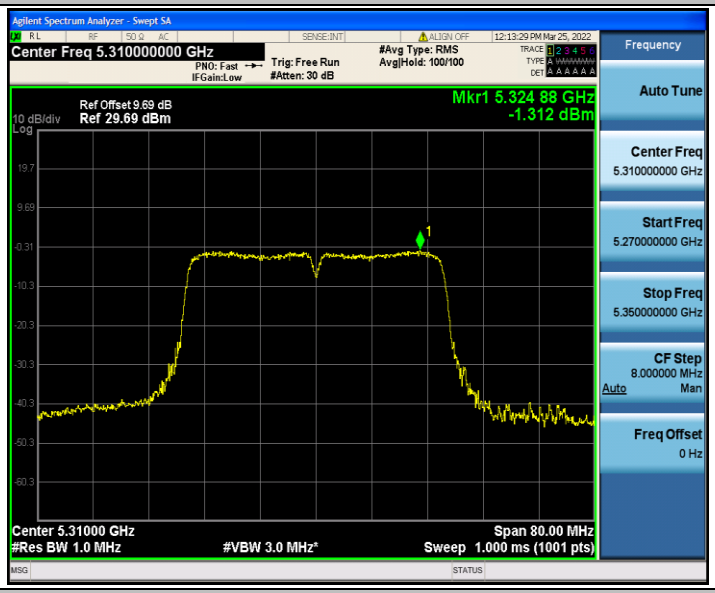

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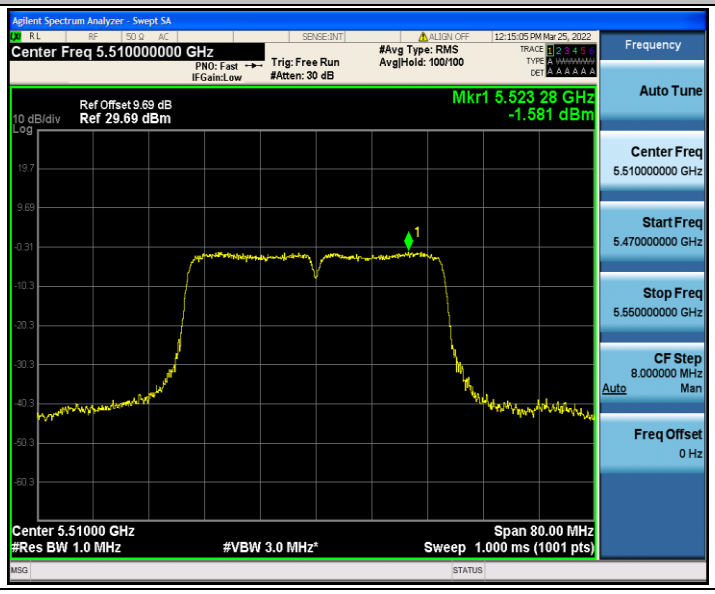

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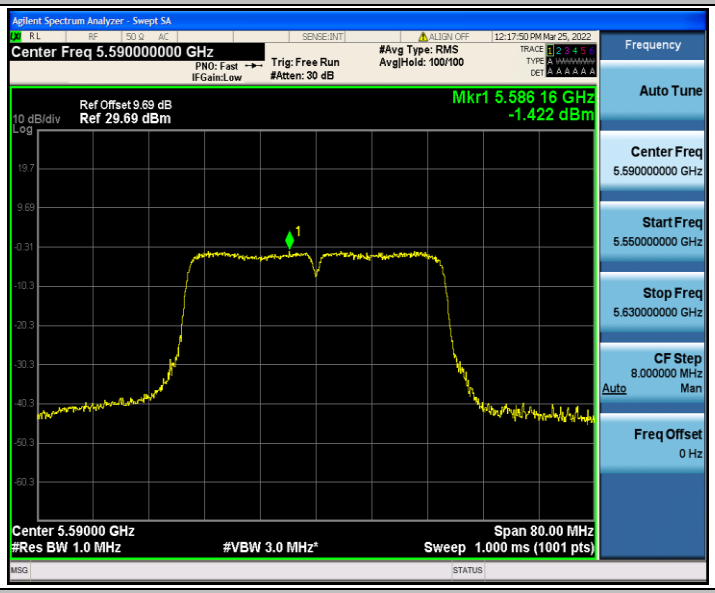

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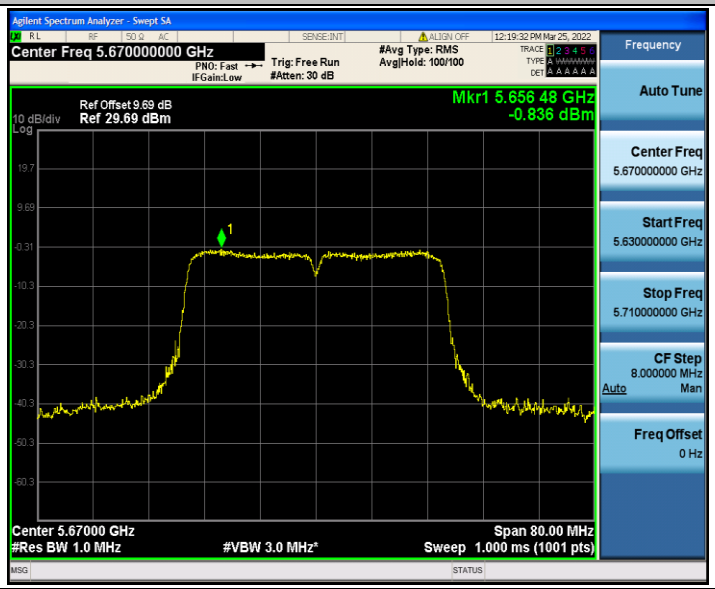

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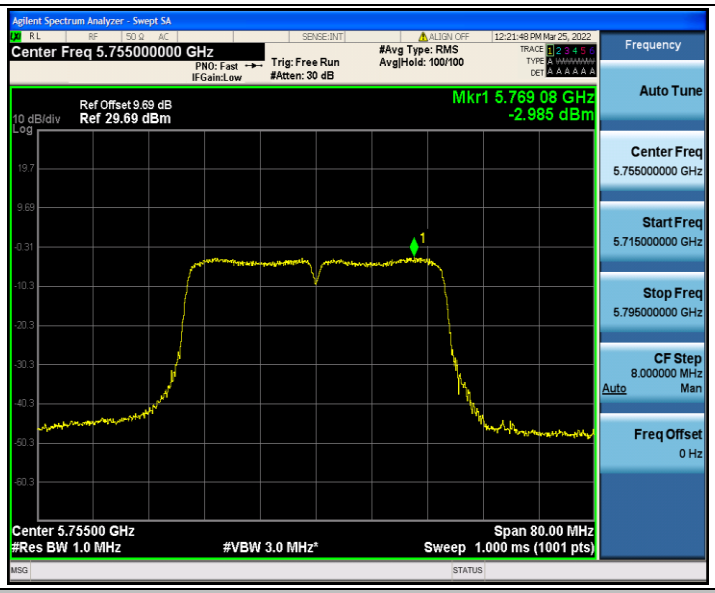

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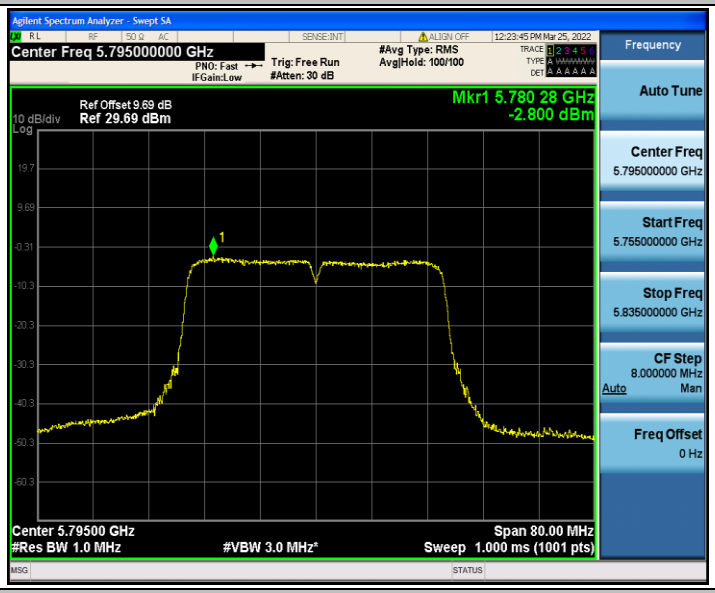
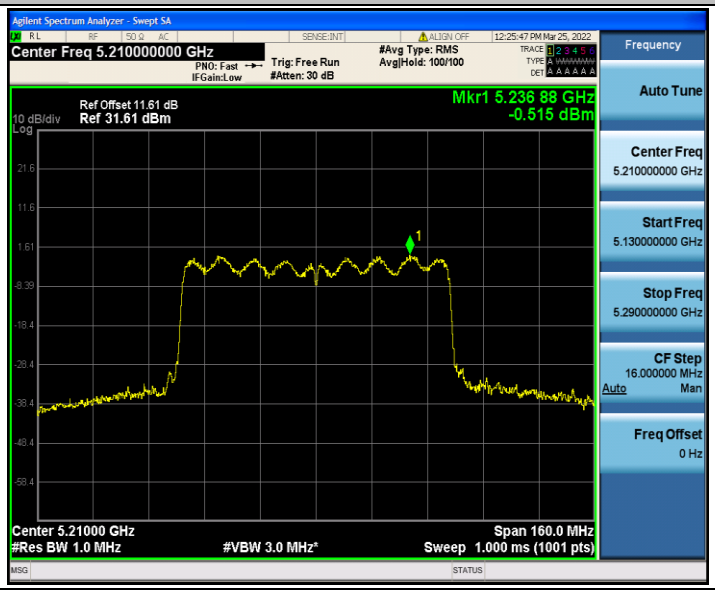


11AC80SISO_Ant1_5210



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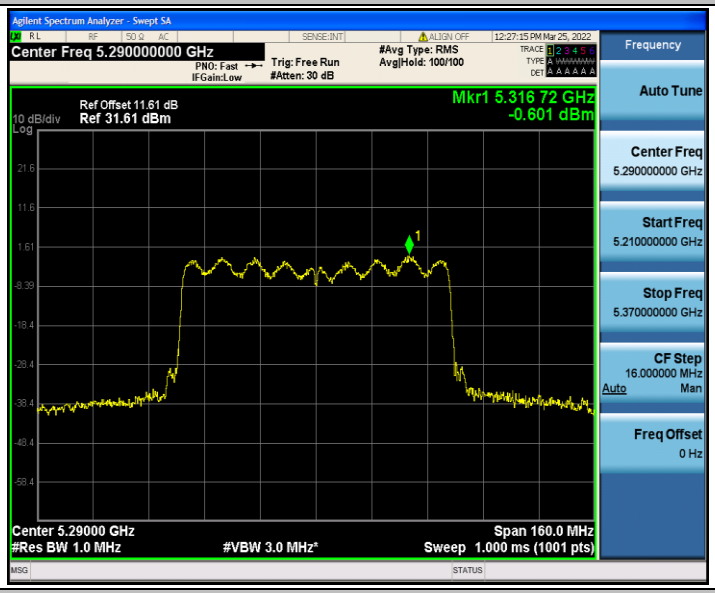

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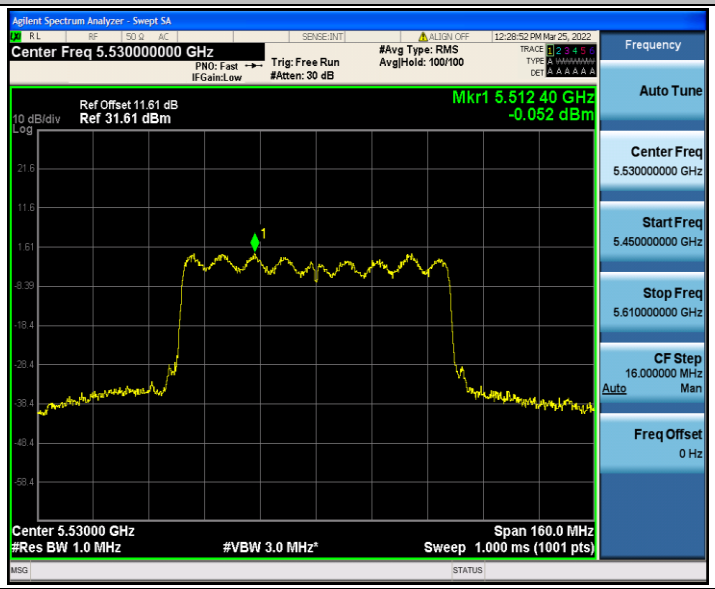

11AC80SISO_Ant1_5775

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
12:31:39 PM Mar 25, 2022
Ref Offset 11.61 dB
10 dB/div
Ref 31.61 dBm
Log
Mkr1 5.748 44 GHz
-1.771 dBm
Center 5.77500 GHz
#Res BW 1.0 MHz
#VBW 3.0 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 D: Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant1	5180	NV	NT	-28000	-5.405405	20	PASS
			LV	NT	-27000	-5.212355	20	PASS
			HV	NT	-27000	-5.212355	20	PASS
		5200	NV	NT	-27000	-5.192308	20	PASS
			LV	NT	-25000	-4.807692	20	PASS
			HV	NT	-24000	-4.615385	20	PASS
		5240	NV	NT	-26000	-4.961832	20	PASS
			LV	NT	-24000	-4.580153	20	PASS
			HV	NT	-23000	-4.389313	20	PASS
		5260	NV	NT	-26000	-4.942966	20	PASS
			LV	NT	-22000	-4.182510	20	PASS
			HV	NT	-21000	-3.992395	20	PASS
		5280	NV	NT	-25000	-4.734848	20	PASS
			LV	NT	-20000	-3.787879	20	PASS
			HV	NT	-20000	-3.787879	20	PASS
		5320	NV	NT	-22000	-4.135338	20	PASS
			LV	NT	-15000	-2.819549	20	PASS
			HV	NT	-14000	-2.631579	20	PASS
		5500	NV	NT	-25000	-4.545455	20	PASS
			LV	NT	-23000	-4.181818	20	PASS
			HV	NT	-23000	-4.181818	20	PASS
		5600	NV	NT	-27000	-4.821429	20	PASS
			LV	NT	-26000	-4.642857	20	PASS
			HV	NT	-26000	-4.642857	20	PASS
		5700	NV	NT	-28000	-4.912281	20	PASS
			LV	NT	-27000	-4.736842	20	PASS
			HV	NT	-26000	-4.561404	20	PASS
		5745	NV	NT	-28000	-4.873803	20	PASS
			LV	NT	-27000	-4.699739	20	PASS
			HV	NT	-27000	-4.699739	20	PASS
		5785	NV	NT	-28000	-4.840104	20	PASS
			LV	NT	-27000	-4.667243	20	PASS
			HV	NT	-27000	-4.667243	20	PASS
		5825	NV	NT	-28000	-4.806867	20	PASS
			LV	NT	-28000	-4.806867	20	PASS
			HV	NT	-27000	-4.635193	20	PASS

11AC40S ISO	Ant1	5190	NV	NT	-25000	-4.816956	20	PASS
			LV	NT	-23000	-4.431599	20	PASS
			HV	NT	-22000	-4.238921	20	PASS
		5230	NV	NT	-25000	-4.780115	20	PASS
			LV	NT	-22000	-4.206501	20	PASS
			HV	NT	-21000	-4.015296	20	PASS
		5270	NV	NT	-24000	-4.554080	20	PASS
			LV	NT	-19000	-3.605313	20	PASS
			HV	NT	-17000	-3.225806	20	PASS
		5310	NV	NT	-24000	-4.519774	20	PASS
			LV	NT	-17000	-3.201507	20	PASS
			HV	NT	-15000	-2.824859	20	PASS
		5510	NV	NT	-25000	-4.537205	20	PASS
			LV	NT	-25000	-4.537205	20	PASS
			HV	NT	-25000	-4.537205	20	PASS
		5590	NV	NT	-27000	-4.830054	20	PASS
			LV	NT	-26000	-4.651163	20	PASS
			HV	NT	-26000	-4.651163	20	PASS
		5670	NV	NT	-27000	-4.761905	20	PASS
			LV	NT	-27000	-4.761905	20	PASS
			HV	NT	-27000	-4.761905	20	PASS
		5755	NV	NT	-28000	-4.865334	20	PASS
			LV	NT	-27000	-4.691573	20	PASS
			HV	NT	-27000	-4.691573	20	PASS
		5795	NV	NT	-28000	-4.831752	20	PASS
			LV	NT	-27000	-4.659189	20	PASS
			HV	NT	-27000	-4.659189	20	PASS
11AC80S ISO	Ant1	5210	NV	NT	-25000	-4.798464	20	PASS
			LV	NT	-21000	-4.03071	20	PASS
			HV	NT	-20000	-3.838772	20	PASS
		5290	NV	NT	-15000	-2.835539	20	PASS
			LV	NT	-16000	-3.024575	20	PASS
			HV	NT	-16000	-3.024575	20	PASS
		5530	NV	NT	-25000	-4.520796	20	PASS
			LV	NT	-25000	-4.520796	20	PASS
			HV	NT	-25000	-4.520796	20	PASS
		5775	NV	NT	-28000	-4.848485	20	PASS
			LV	NT	-26000	-4.502165	20	PASS
			HV	NT	-27000	-4.675325	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20S ISO	Ant1	5180	NV	0	-26000	-5.019305	20	PASS
			NV	10	-26000	-5.019305	20	PASS
			NV	20	-26000	-5.019305	20	PASS
			NV	30	-26000	-5.019305	20	PASS
			NV	35	-26000	-5.019305	20	PASS
		5200	NV	0	-25000	-4.807692	20	PASS
			NV	10	-24000	-4.615385	20	PASS
			NV	20	-24000	-4.615385	20	PASS
			NV	30	-24000	-4.615385	20	PASS
			NV	35	-24000	-4.615385	20	PASS
		5240	NV	0	-23000	-4.389313	20	PASS
			NV	10	-23000	-4.389313	20	PASS
			NV	20	-22000	-4.198473	20	PASS
			NV	30	-22000	-4.198473	20	PASS
			NV	35	-22000	-4.198473	20	PASS
		5260	NV	0	-21000	-3.992395	20	PASS
			NV	10	-20000	-3.802281	20	PASS
			NV	20	-20000	-3.802281	20	PASS
			NV	30	-20000	-3.802281	20	PASS
			NV	35	-20000	-3.802281	20	PASS
		5280	NV	0	-18000	-3.409091	20	PASS
			NV	10	-18000	-3.409091	20	PASS
			NV	20	-18000	-3.409091	20	PASS
			NV	30	-17000	-3.219697	20	PASS
			NV	35	-17000	-3.219697	20	PASS
		5320	NV	0	-13000	-2.443609	20	PASS
			NV	10	-12000	-2.255639	20	PASS
			NV	20	-11000	-2.067669	20	PASS
			NV	30	-11000	-2.067669	20	PASS
			NV	35	-8000	-1.503759	20	PASS
		5500	NV	0	-24000	-4.363636	20	PASS
			NV	10	-24000	-4.363636	20	PASS
			NV	20	-24000	-4.363636	20	PASS
			NV	30	-24000	-4.363636	20	PASS
			NV	35	-24000	-4.363636	20	PASS
		5600	NV	0	-26000	-4.642857	20	PASS
			NV	10	-26000	-4.642857	20	PASS
			NV	20	-26000	-4.642857	20	PASS
			NV	30	-26000	-4.642857	20	PASS
			NV	35	-26000	-4.642857	20	PASS

		5700	NV	0	-26000	-4.561404	20	PASS
			NV	10	-26000	-4.561404	20	PASS
			NV	20	-27000	-4.736842	20	PASS
			NV	30	-27000	-4.736842	20	PASS
			NV	35	-27000	-4.736842	20	PASS
		5745	NV	0	-27000	-4.699739	20	PASS
			NV	10	-27000	-4.699739	20	PASS
			NV	20	-27000	-4.699739	20	PASS
			NV	30	-27000	-4.699739	20	PASS
			NV	35	-27000	-4.699739	20	PASS
		5785	NV	0	-27000	-4.667243	20	PASS
			NV	10	-27000	-4.667243	20	PASS
			NV	20	-27000	-4.667243	20	PASS
			NV	30	-27000	-4.667243	20	PASS
			NV	35	-27000	-4.667243	20	PASS
		5825	NV	0	-27000	-4.635193	20	PASS
			NV	10	-27000	-4.635193	20	PASS
			NV	20	-27000	-4.635193	20	PASS
			NV	30	-27000	-4.635193	20	PASS
			NV	35	-28000	-4.806867	20	PASS
11AC40S ISO	Ant1	5190	NV	0	-22000	-4.238921	20	PASS
			NV	10	-22000	-4.238921	20	PASS
			NV	20	-21000	-4.046243	20	PASS
			NV	30	-21000	-4.046243	20	PASS
			NV	35	-21000	-4.046243	20	PASS
		5230	NV	0	-20000	-3.824092	20	PASS
			NV	10	-20000	-3.824092	20	PASS
			NV	20	-20000	-3.824092	20	PASS
			NV	30	-20000	-3.824092	20	PASS
			NV	35	-20000	-3.824092	20	PASS
		5270	NV	0	-18000	-3.41556	20	PASS
			NV	10	-17000	-3.225806	20	PASS
			NV	20	-16000	-3.036053	20	PASS
			NV	30	-16000	-3.036053	20	PASS
			NV	35	-16000	-3.036053	20	PASS
		5310	NV	0	-16000	-3.013183	20	PASS
			NV	10	-15000	-2.824859	20	PASS
			NV	20	-15000	-2.824859	20	PASS
			NV	30	-15000	-2.824859	20	PASS
			NV	35	-14000	-2.636535	20	PASS
		5510	NV	0	-25000	-4.537205	20	PASS
			NV	10	-25000	-4.537205	20	PASS
			NV	20	-25000	-4.537205	20	PASS

			NV	30	-25000	-4.537205	20	PASS
			NV	35	-25000	-4.537205	20	PASS
		5590	NV	0	-26000	-4.651163	20	PASS
			NV	10	-26000	-4.651163	20	PASS
			NV	20	-26000	-4.651163	20	PASS
			NV	30	-26000	-4.651163	20	PASS
			NV	35	-26000	-4.651163	20	PASS
		5670	NV	0	-26000	-4.585538	20	PASS
			NV	10	-27000	-4.761905	20	PASS
			NV	20	-27000	-4.761905	20	PASS
			NV	30	-27000	-4.761905	20	PASS
			NV	35	-27000	-4.761905	20	PASS
		5755	NV	0	-27000	-4.691573	20	PASS
			NV	10	-27000	-4.691573	20	PASS
			NV	20	-27000	-4.691573	20	PASS
			NV	30	-27000	-4.691573	20	PASS
			NV	35	-27000	-4.691573	20	PASS
		5795	NV	0	-27000	-4.659189	20	PASS
			NV	10	-27000	-4.659189	20	PASS
			NV	20	-27000	-4.659189	20	PASS
			NV	30	-27000	-4.659189	20	PASS
			NV	35	-27000	-4.659189	20	PASS
11AC80S ISO	Ant1	5210	NV	0	-20000	-3.838772	20	PASS
			NV	10	-19000	-3.646833	20	PASS
			NV	20	-19000	-3.646833	20	PASS
			NV	30	-19000	-3.646833	20	PASS
			NV	35	-19000	-3.646833	20	PASS
		5290	NV	0	-15000	-2.835539	20	PASS
			NV	10	-15000	-2.835539	20	PASS
			NV	20	-15000	-2.835539	20	PASS
			NV	30	-16000	-3.024575	20	PASS
			NV	35	-15000	-2.835539	20	PASS
		5530	NV	0	-25000	-4.520796	20	PASS
			NV	10	-25000	-4.520796	20	PASS
			NV	20	-25000	-4.520796	20	PASS
			NV	30	-25000	-4.520796	20	PASS
			NV	35	-25000	-4.520796	20	PASS
		5775	NV	0	-27000	-4.675325	20	PASS
			NV	10	-27000	-4.675325	20	PASS
			NV	20	-27000	-4.675325	20	PASS
			NV	30	-27000	-4.675325	20	PASS
			NV	35	-27000	-4.675325	20	PASS