



Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Home Automation Controller

Test Model: OliverIQ Home Automation Controller (Gen 1)

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





E.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	28.963	---	Pass
NVNT	a	5300	Ant1	25.359	---	Pass
NVNT	a	5320	Ant1	26.65	---	Pass
NVNT	n20	5260	Ant1	26.717	---	Pass
NVNT	n20	5300	Ant1	27.386	---	Pass
NVNT	n20	5320	Ant1	28.02	---	Pass
NVNT	n40	5270	Ant1	40.019	---	Pass
NVNT	n40	5310	Ant1	43.739	---	Pass
NVNT	ac20	5260	Ant1	28.951	---	Pass
NVNT	ac20	5300	Ant1	28.831	---	Pass
NVNT	ac20	5320	Ant1	27.79	---	Pass
NVNT	ac40	5270	Ant1	44.909	---	Pass
NVNT	ac40	5310	Ant1	41.945	---	Pass
NVNT	ac80	5290	Ant1	78.657	---	Pass

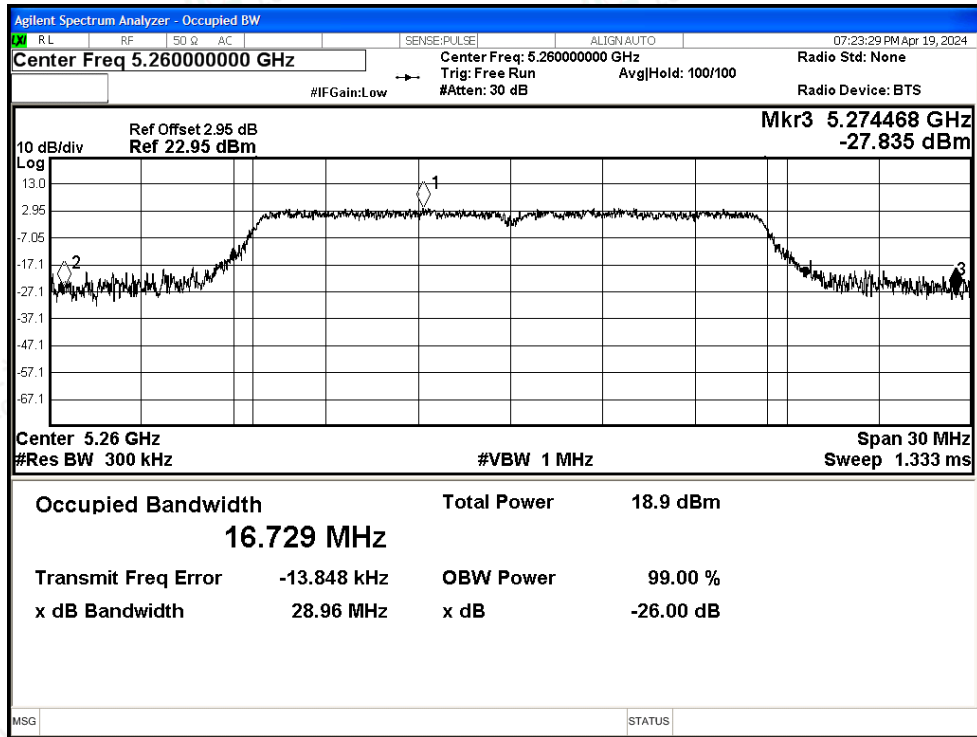


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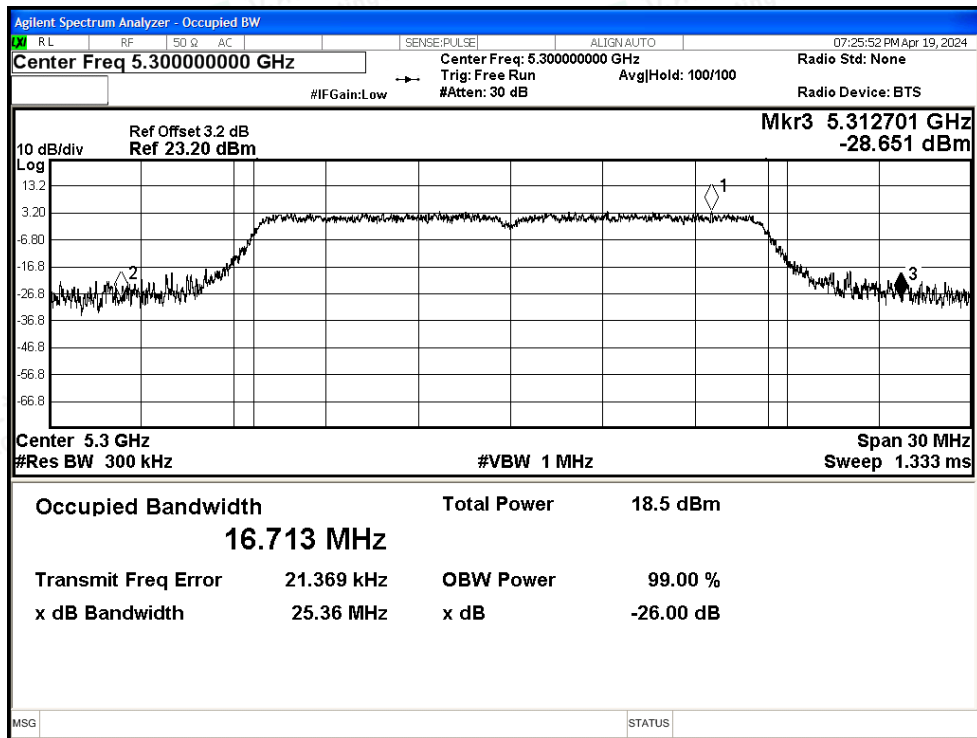


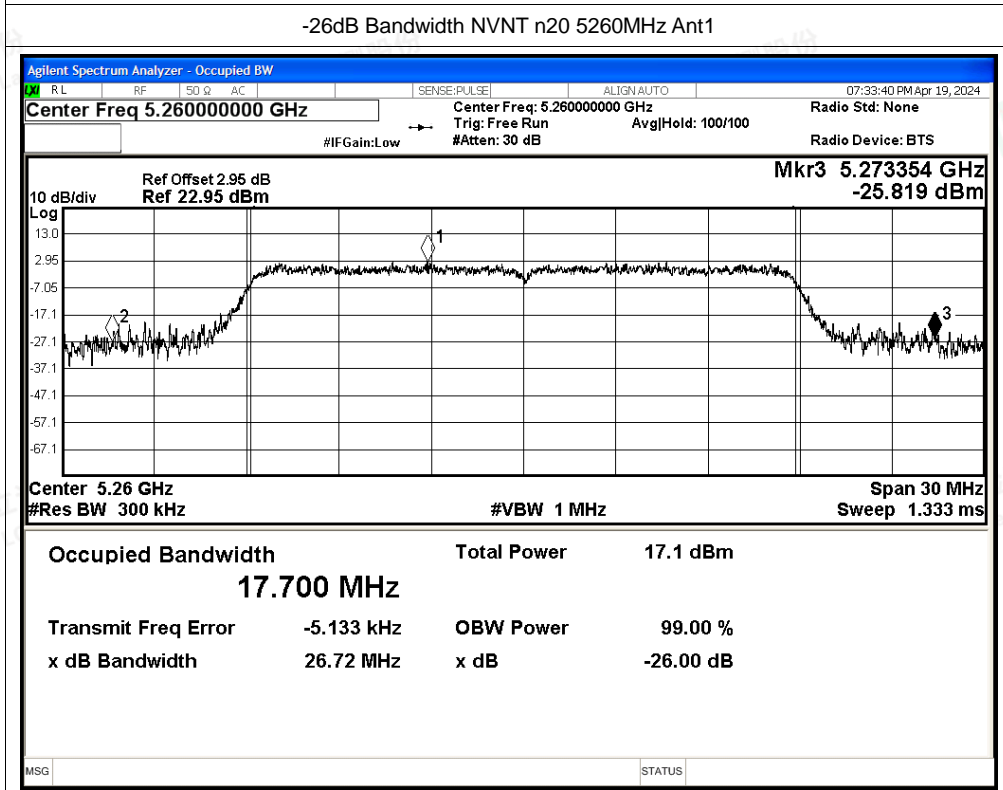
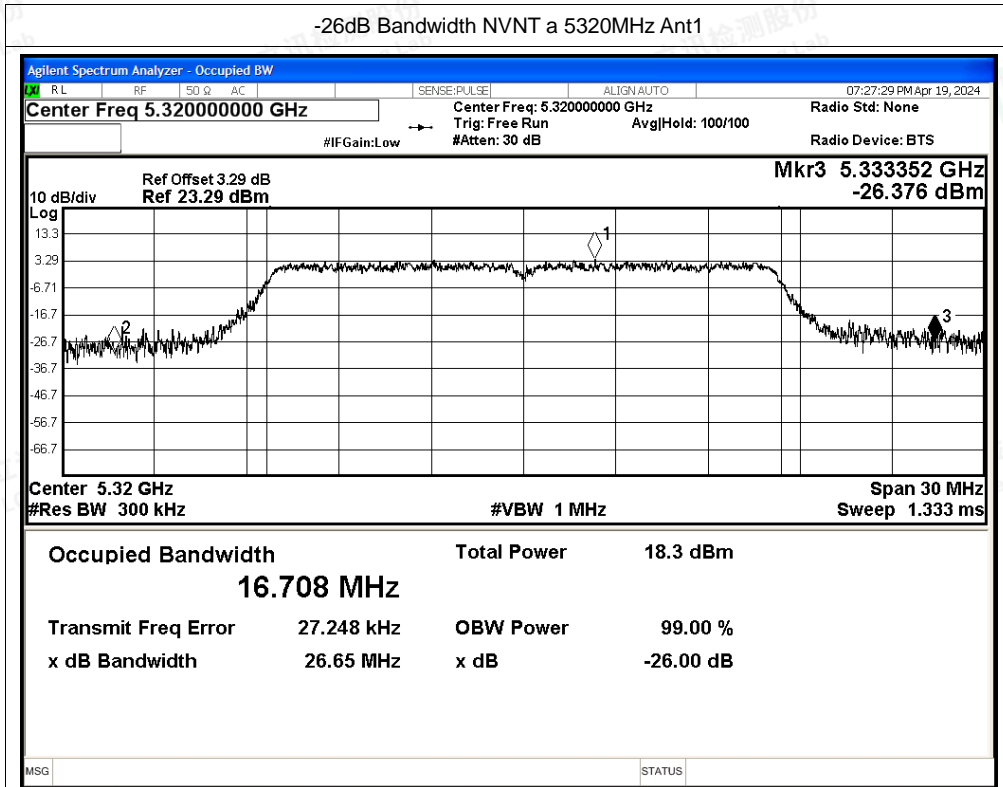
Test Graphs

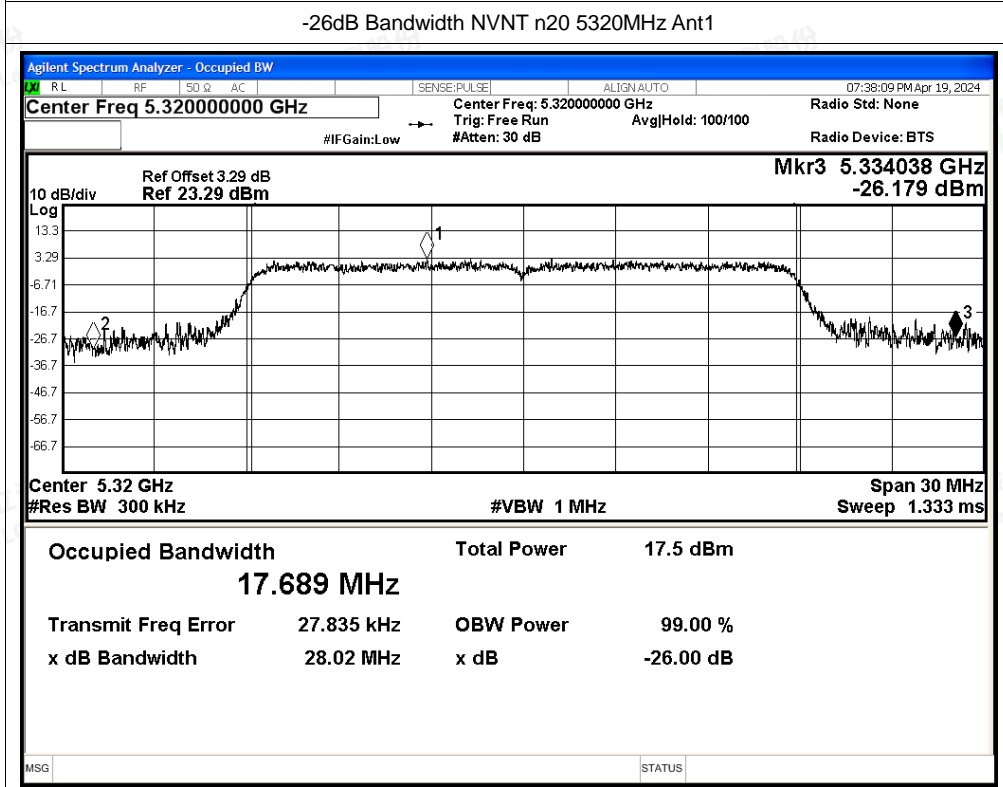
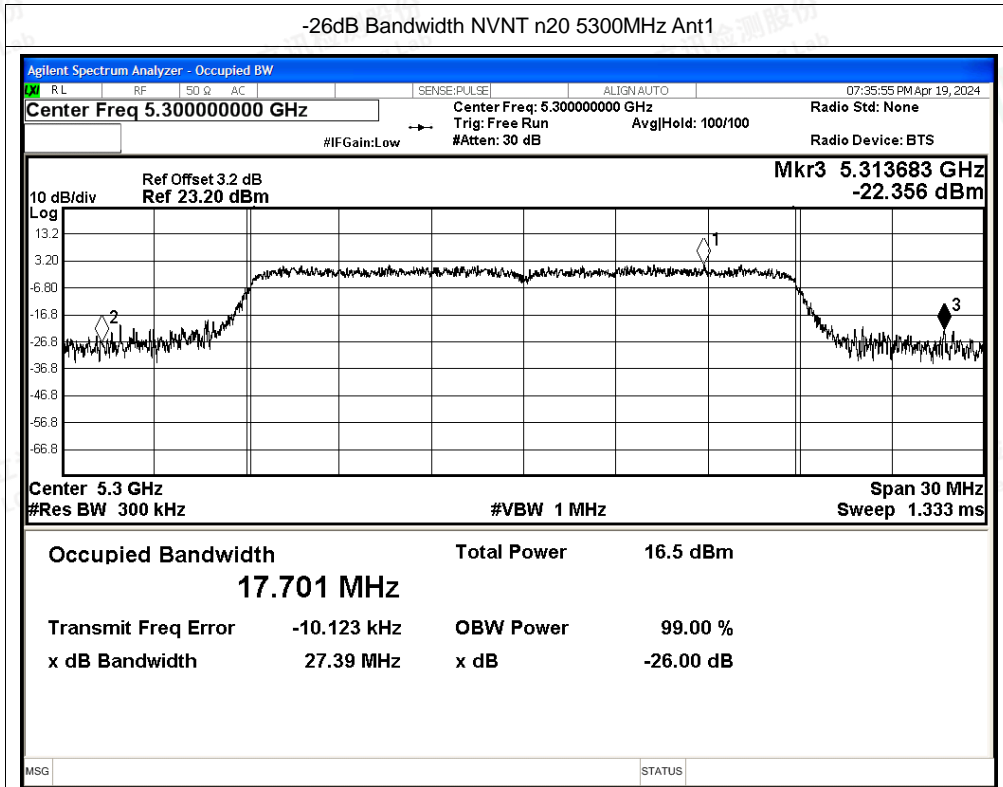
-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1

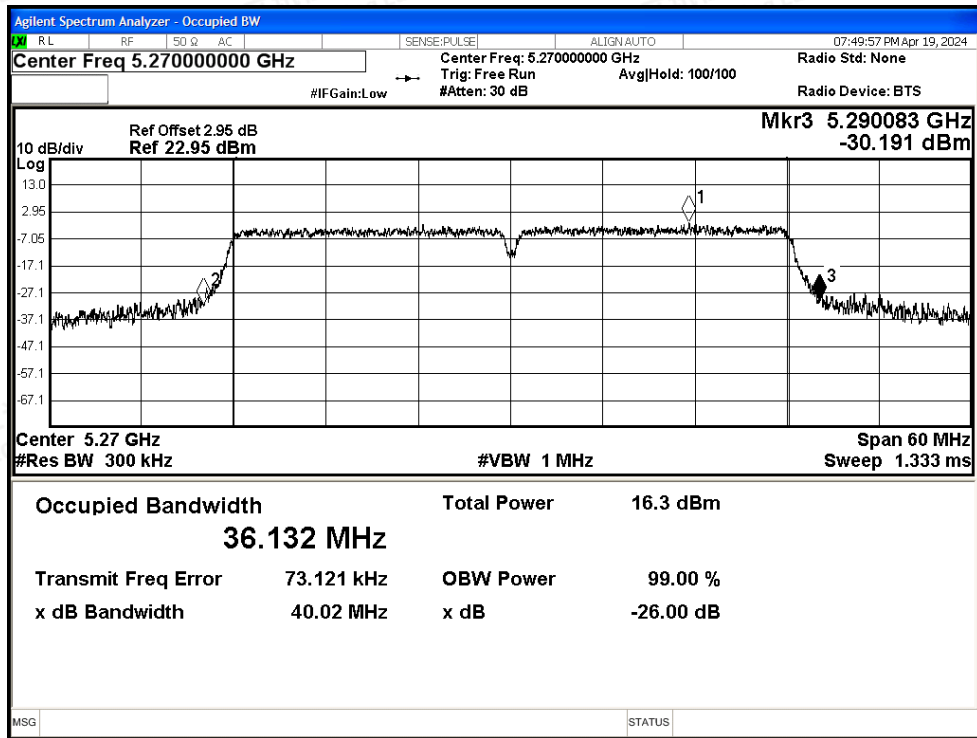




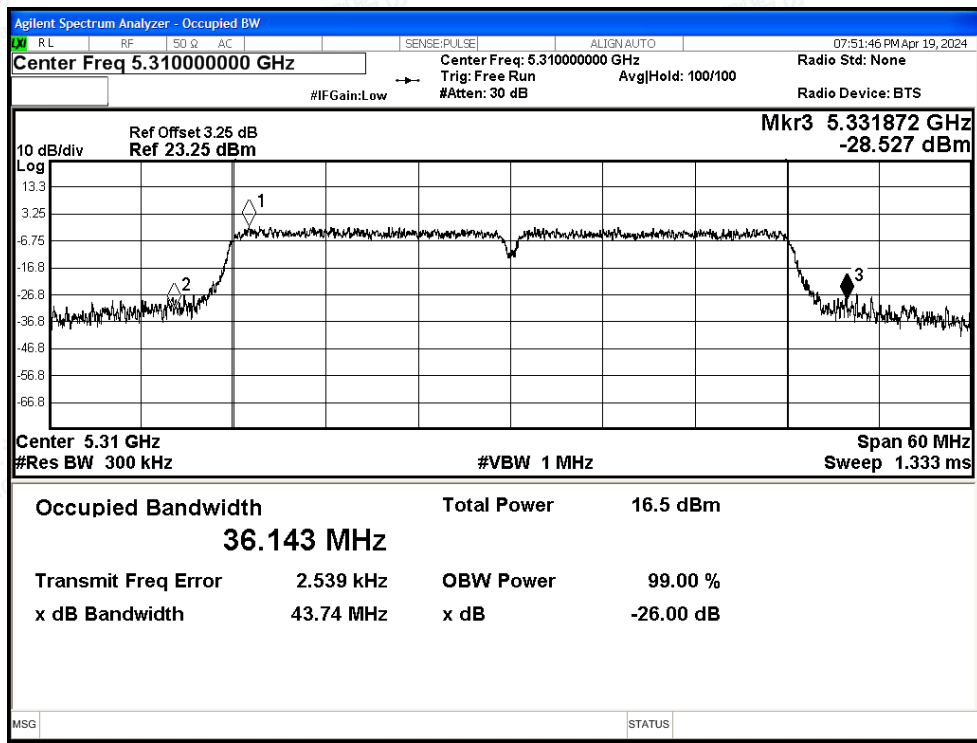




-26dB Bandwidth NVNT n40 5270MHz Ant1

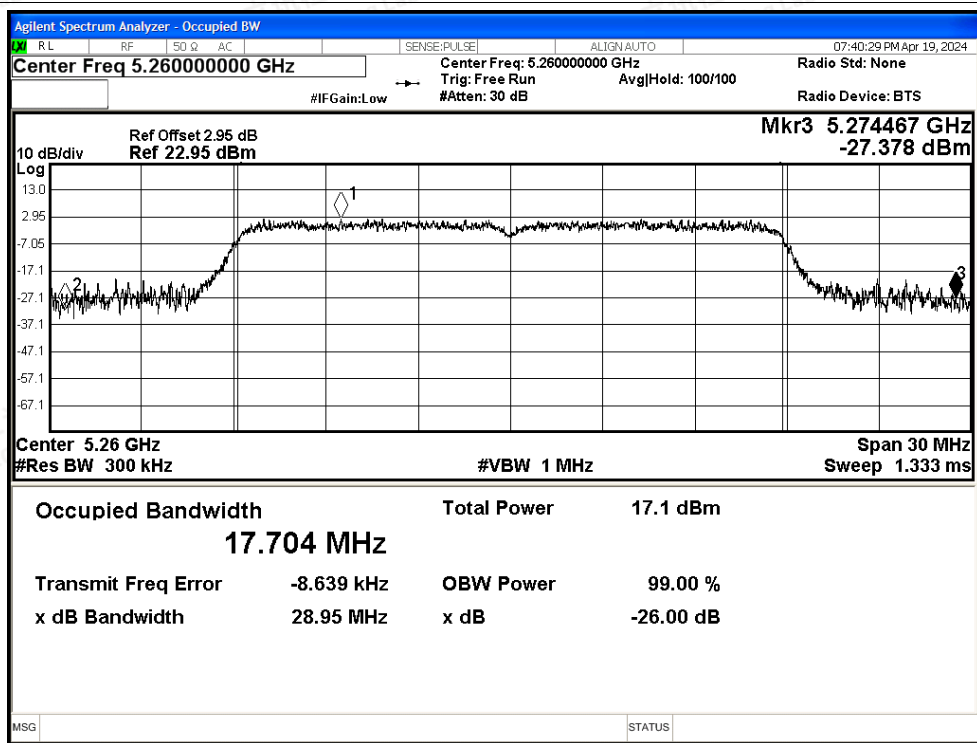


-26dB Bandwidth NVNT n40 5310MHz Ant1

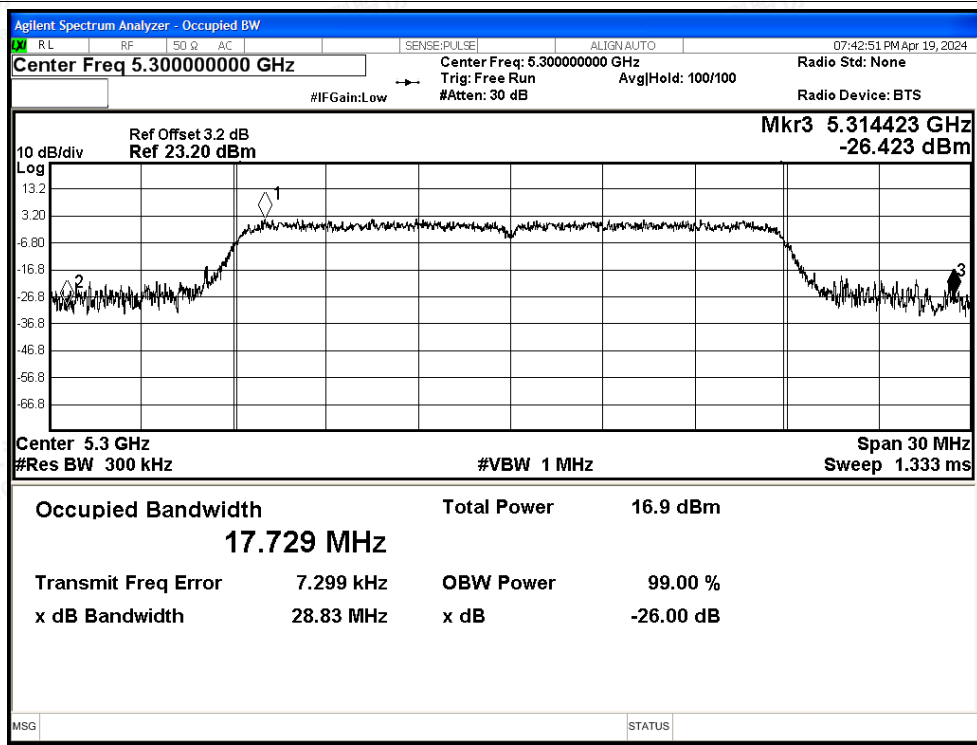


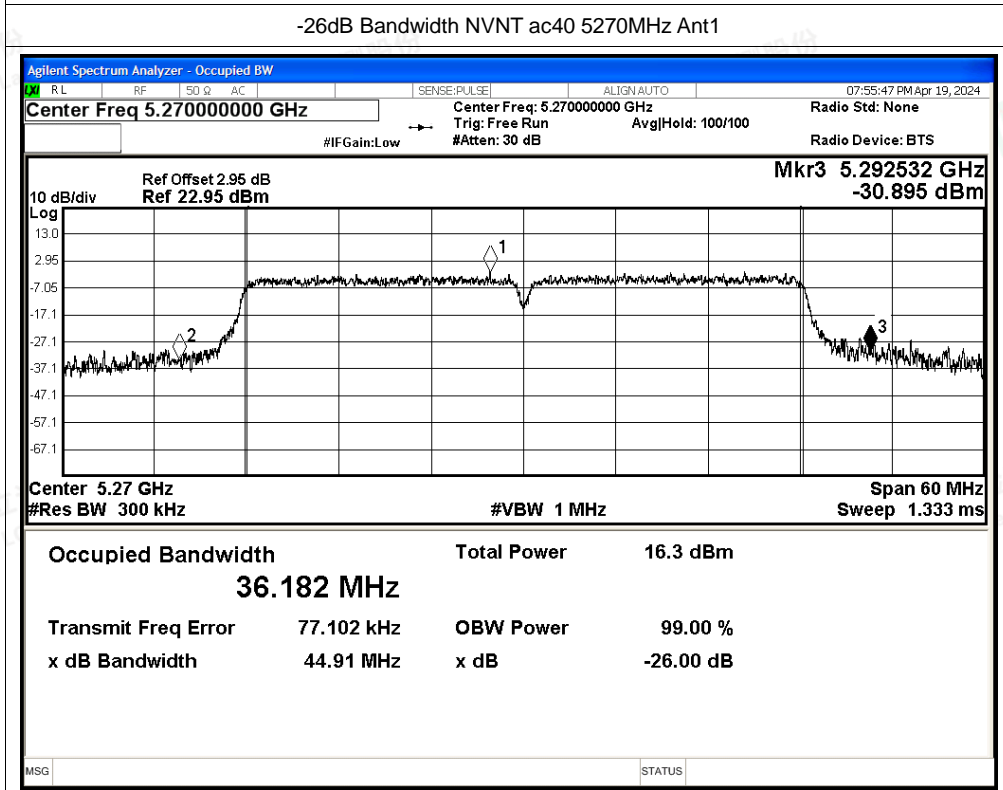
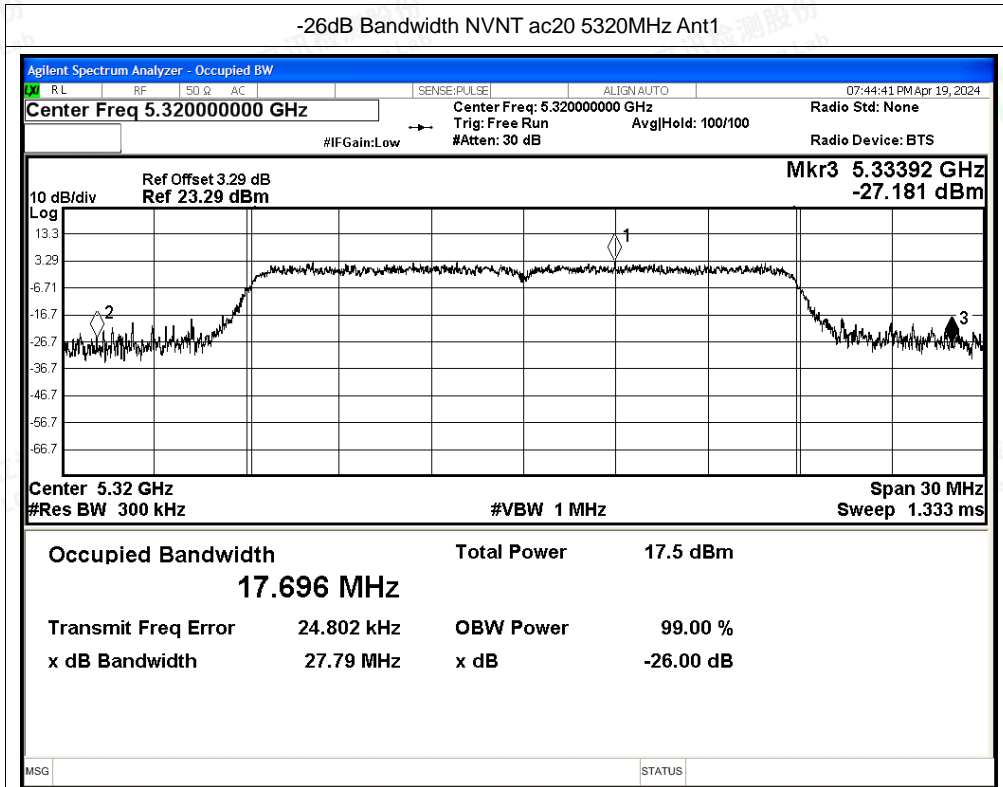


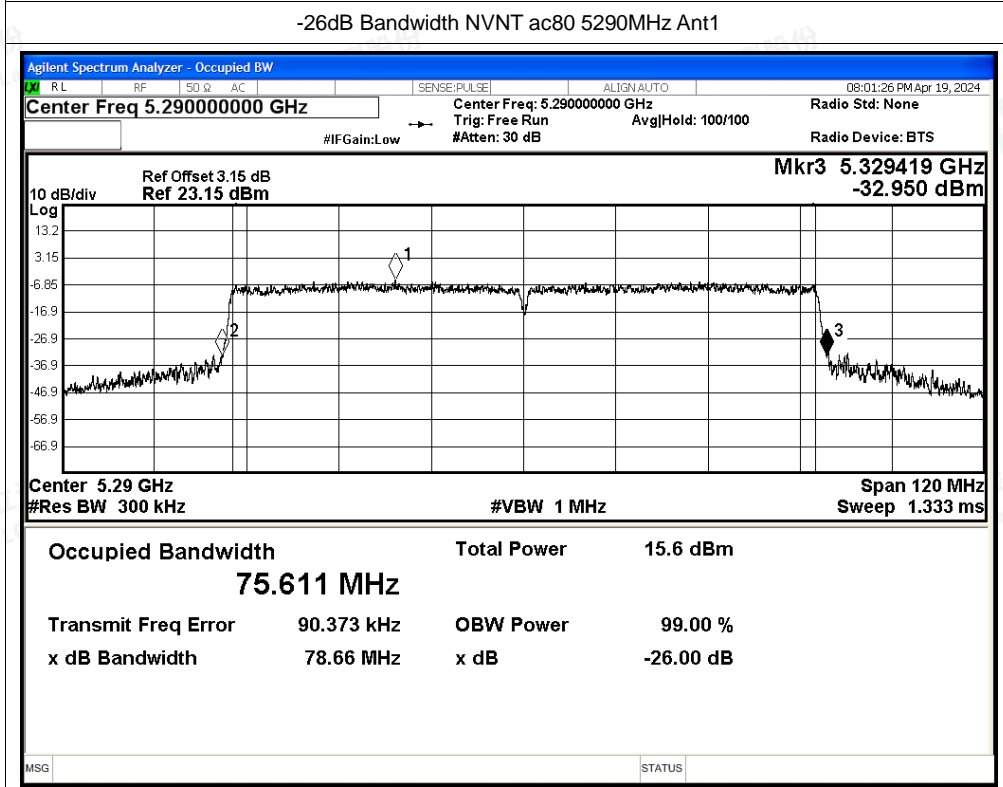
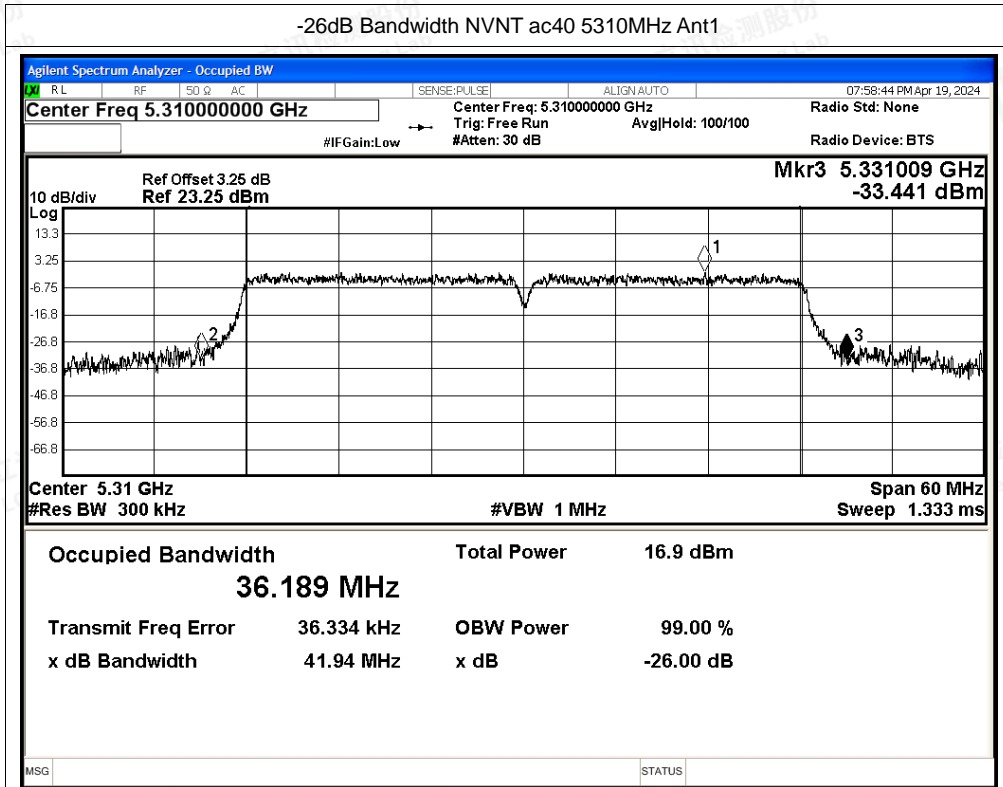
-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5300MHz Ant1









Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant2	26.648	---	Pass
NVNT	a	5300	Ant2	27.502	---	Pass
NVNT	a	5320	Ant2	28.666	---	Pass
NVNT	n20	5260	Ant2	28.68	---	Pass
NVNT	n20	5300	Ant2	27.235	---	Pass
NVNT	n20	5320	Ant2	29.997	---	Pass
NVNT	n40	5270	Ant2	43.475	---	Pass
NVNT	n40	5310	Ant2	40.681	---	Pass
NVNT	ac20	5260	Ant2	28.056	---	Pass
NVNT	ac20	5300	Ant2	27.591	---	Pass
NVNT	ac20	5320	Ant2	28.851	---	Pass
NVNT	ac40	5270	Ant2	44.744	---	Pass
NVNT	ac40	5310	Ant2	45.979	---	Pass
NVNT	ac80	5290	Ant2	78.352	---	Pass

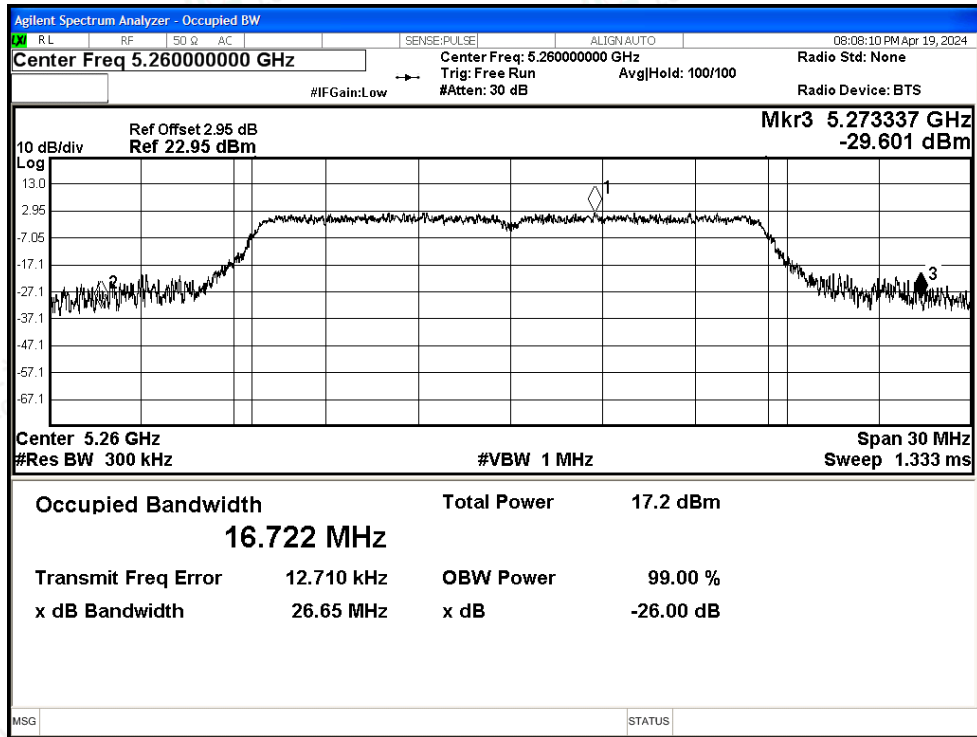


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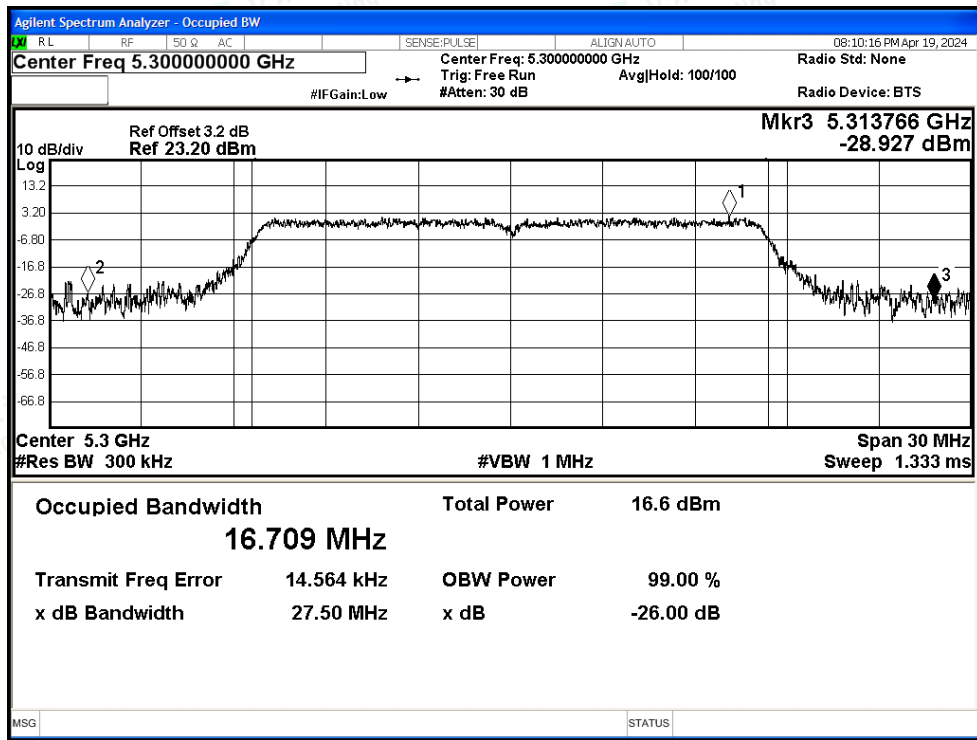


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant2

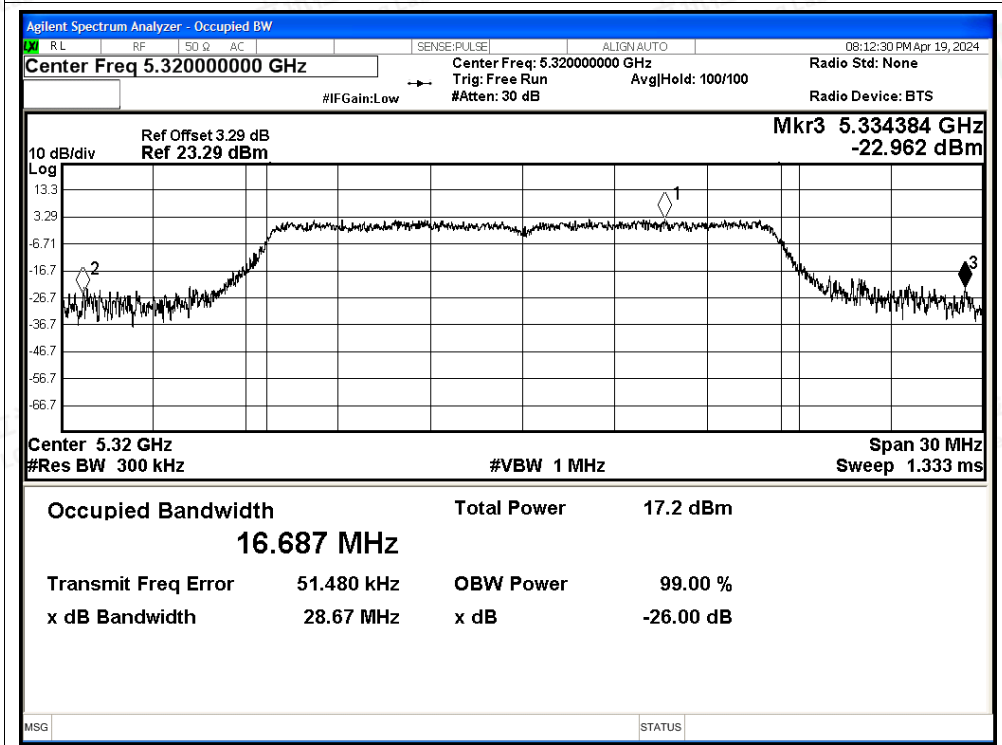


-26dB Bandwidth NVNT a 5300MHz Ant2

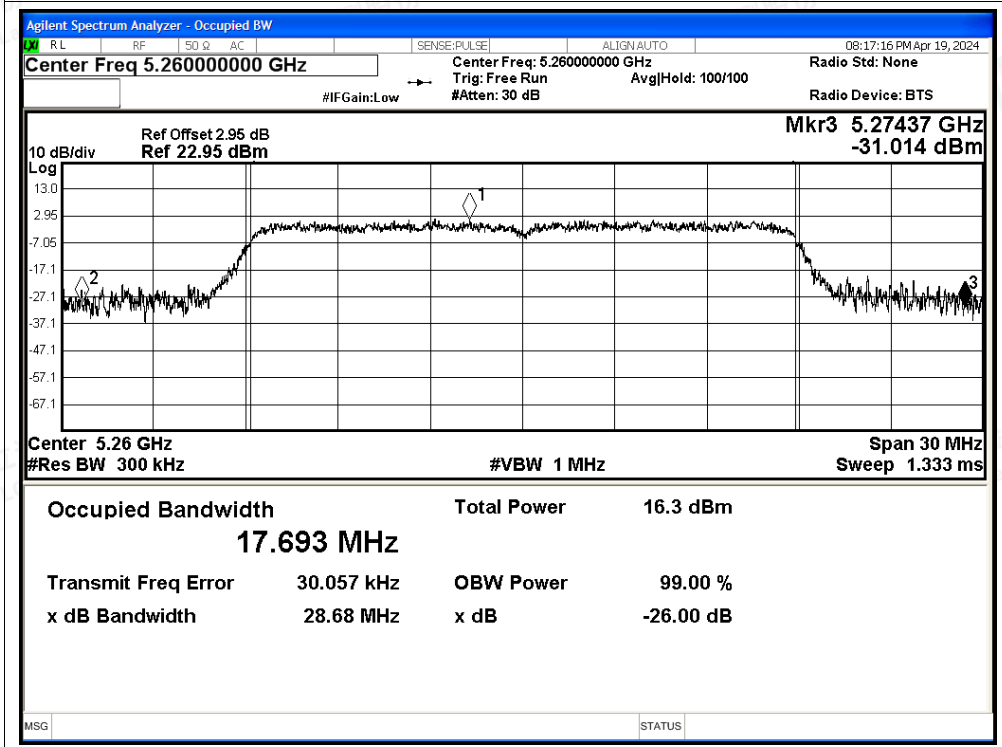


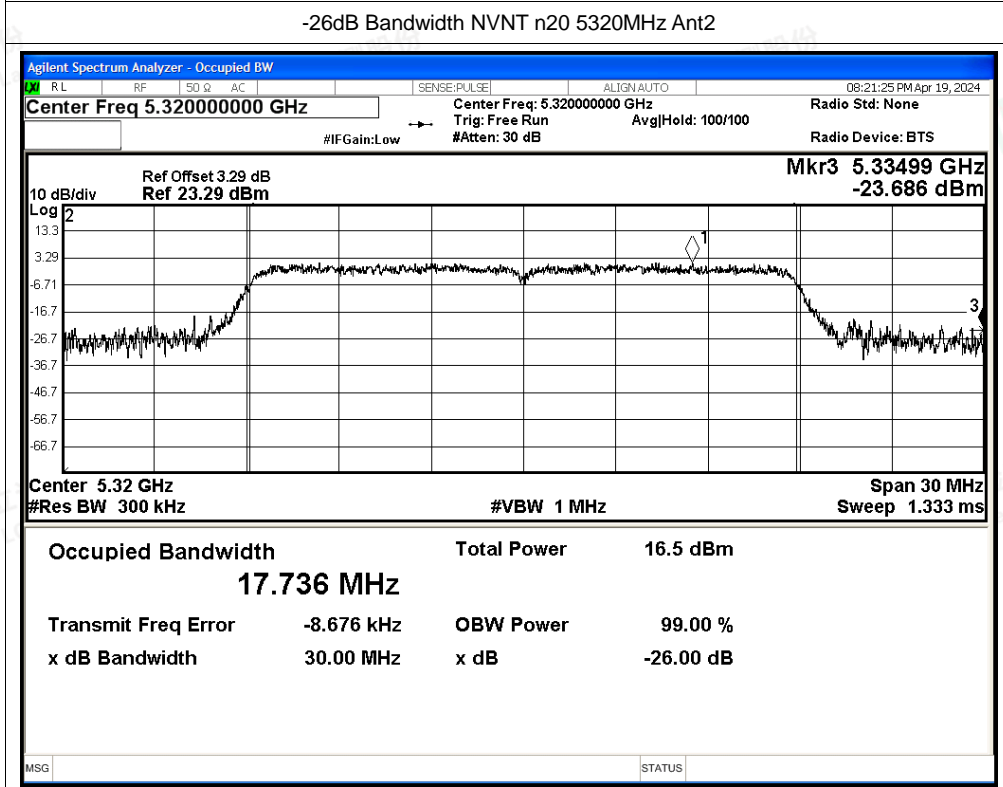
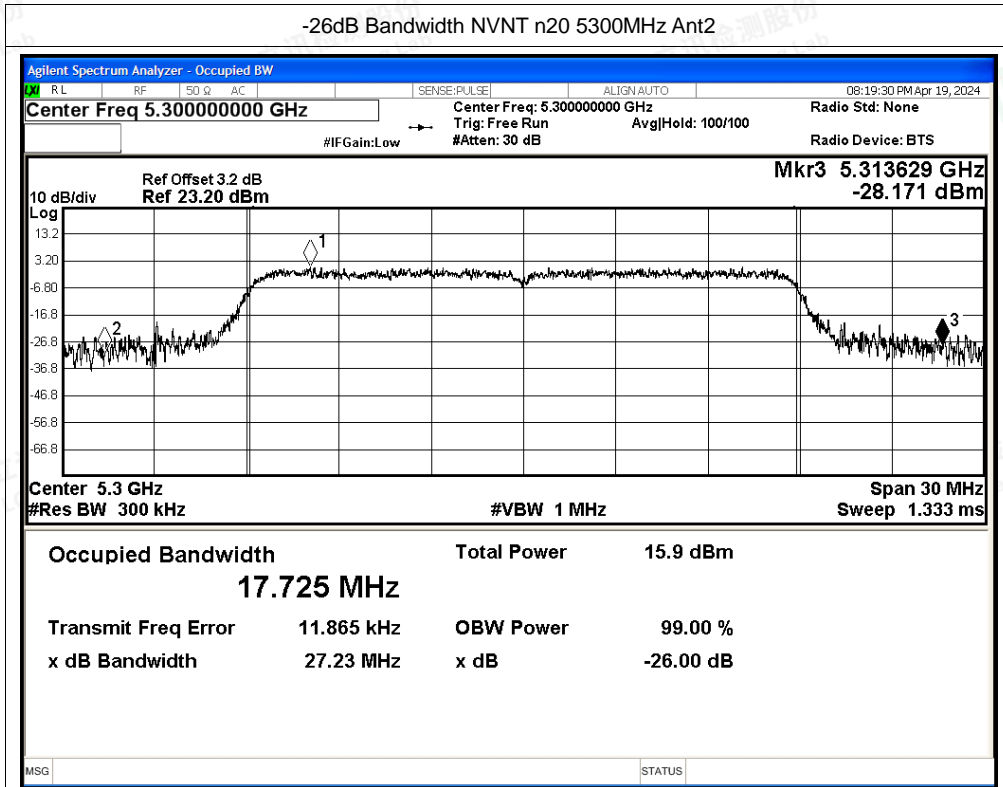


-26dB Bandwidth NVNT a 5320MHz Ant2



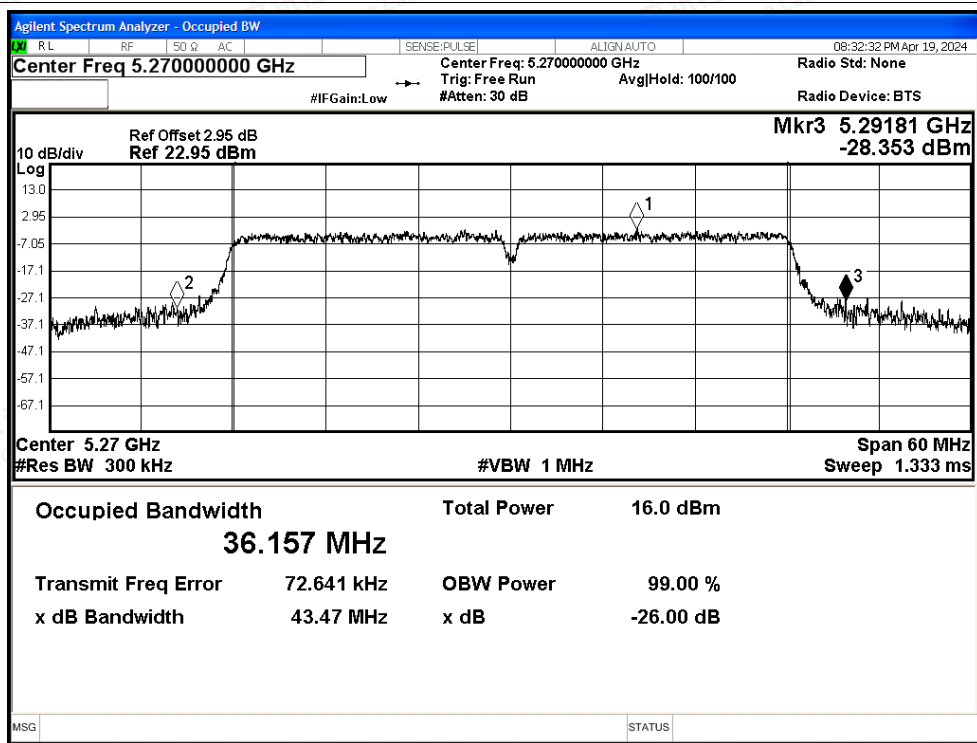
-26dB Bandwidth NVNT n20 5260MHz Ant2



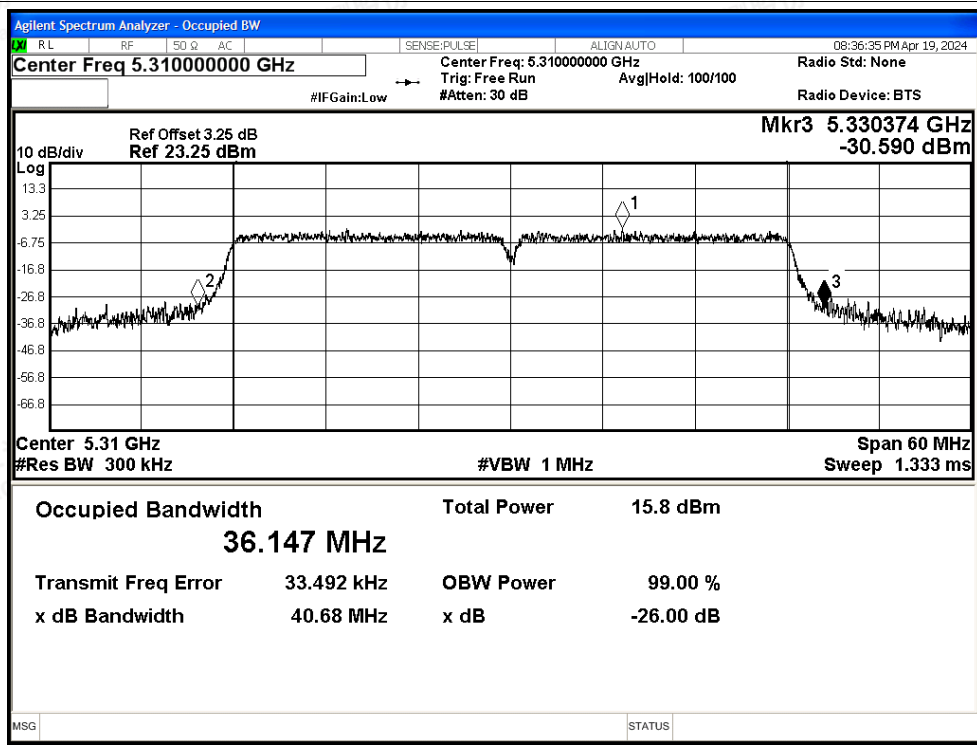


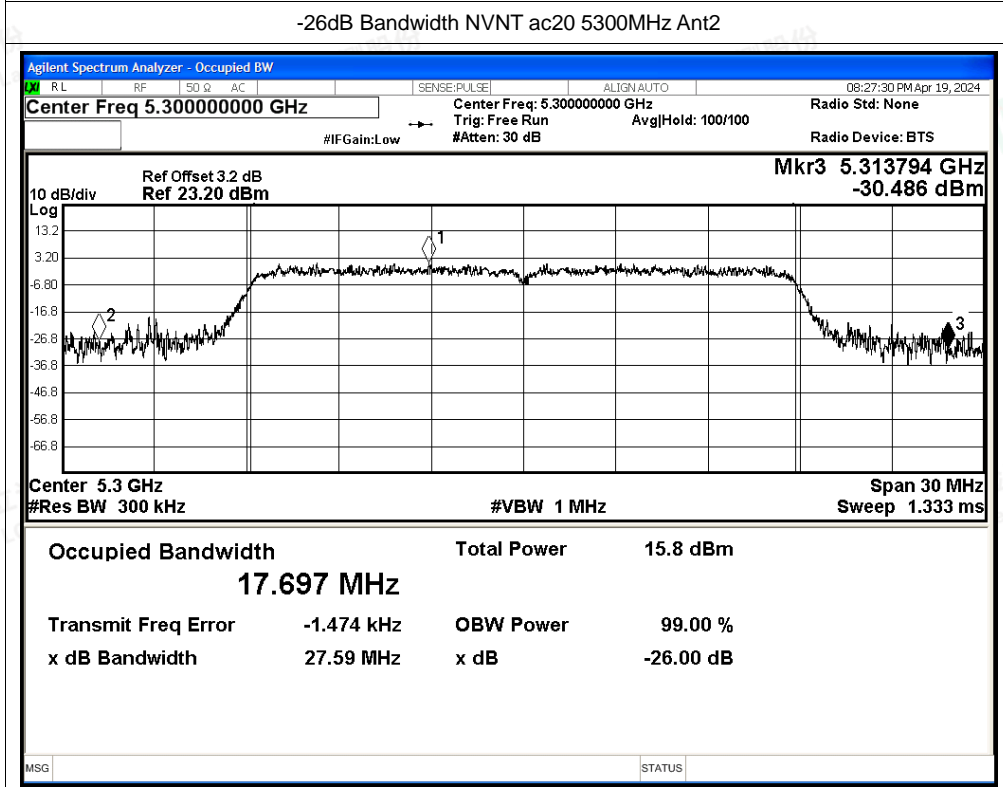
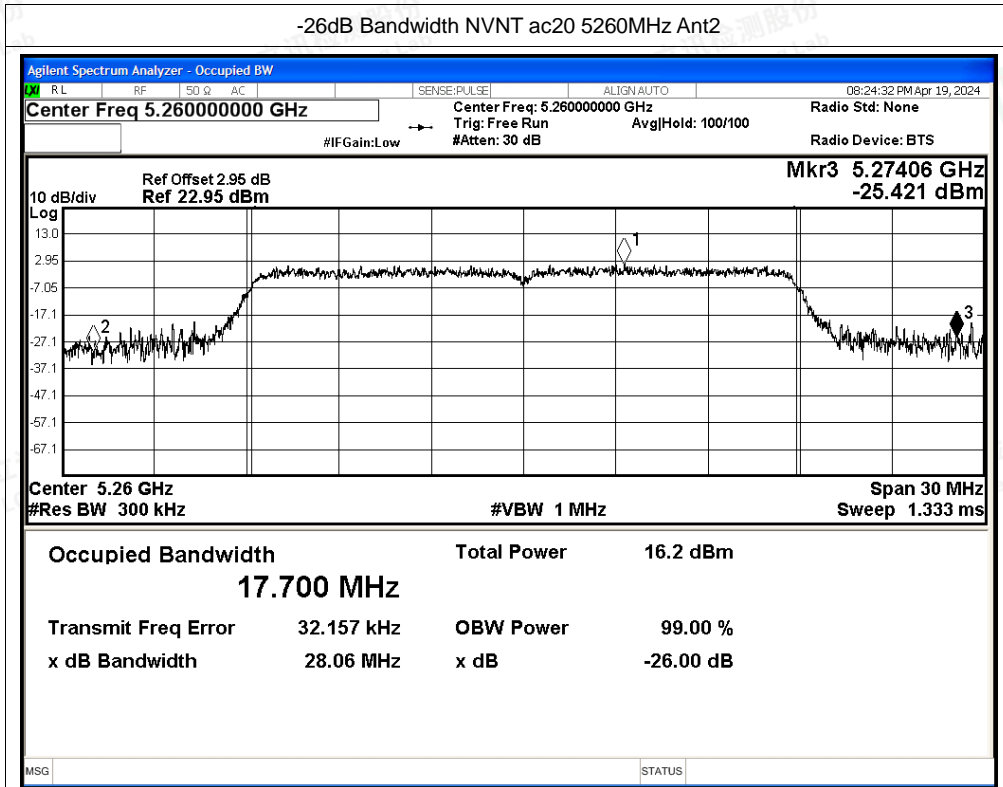


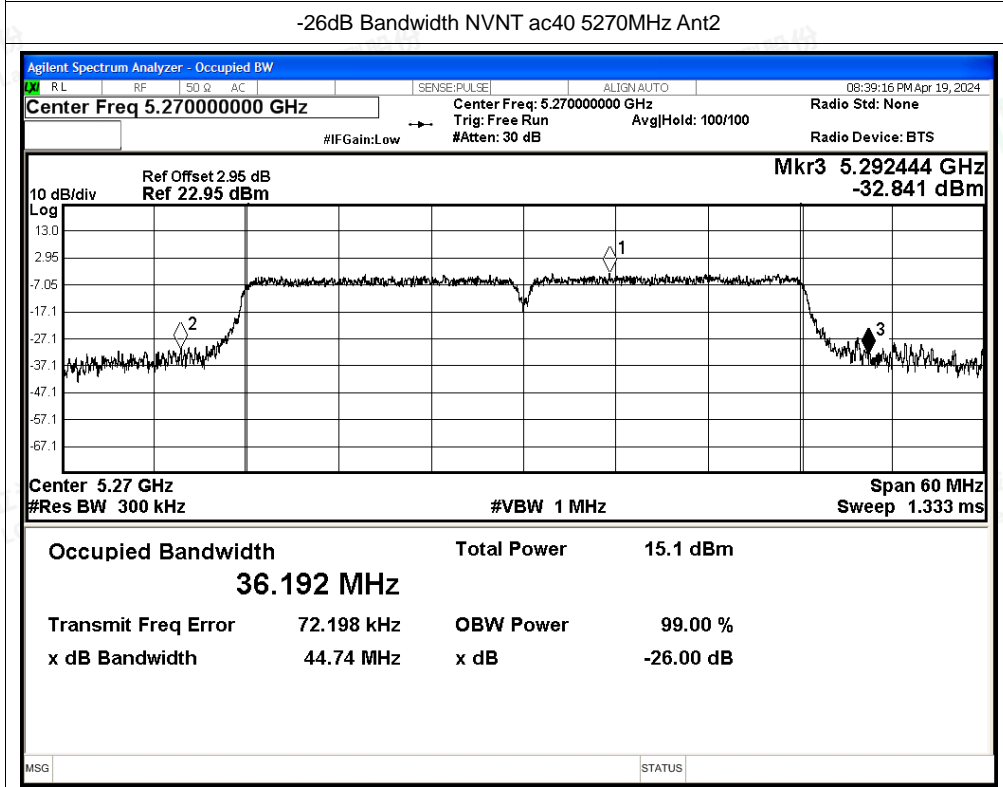
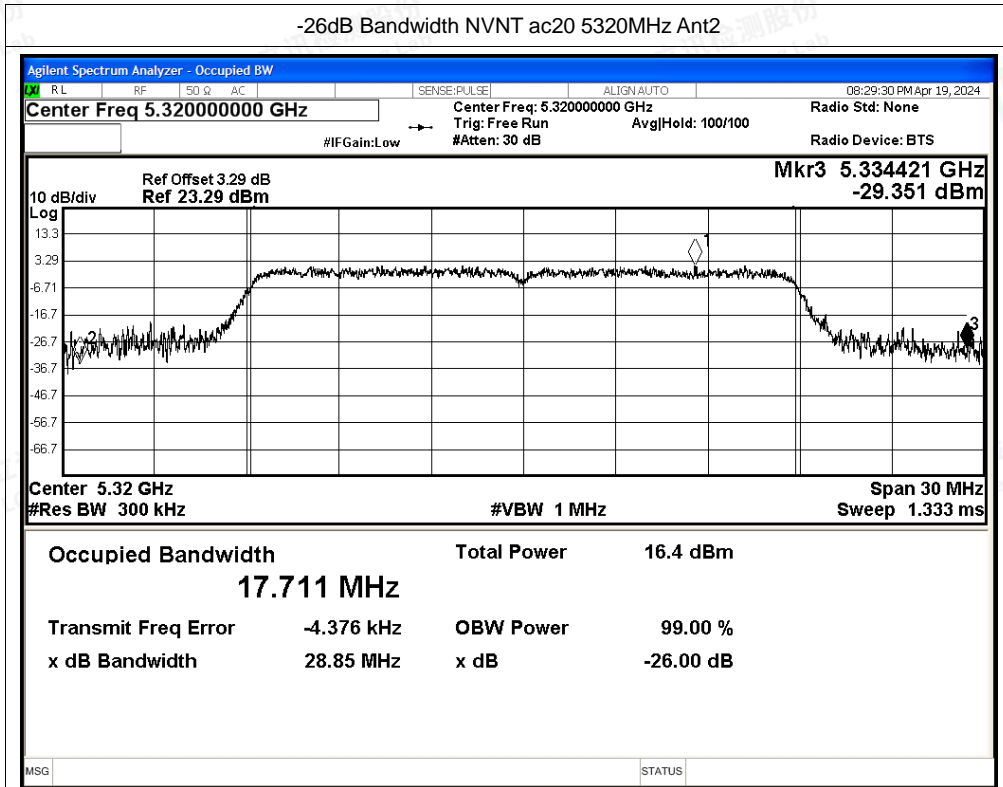
-26dB Bandwidth NVNT n40 5270MHz Ant2



-26dB Bandwidth NVNT n40 5310MHz Ant2

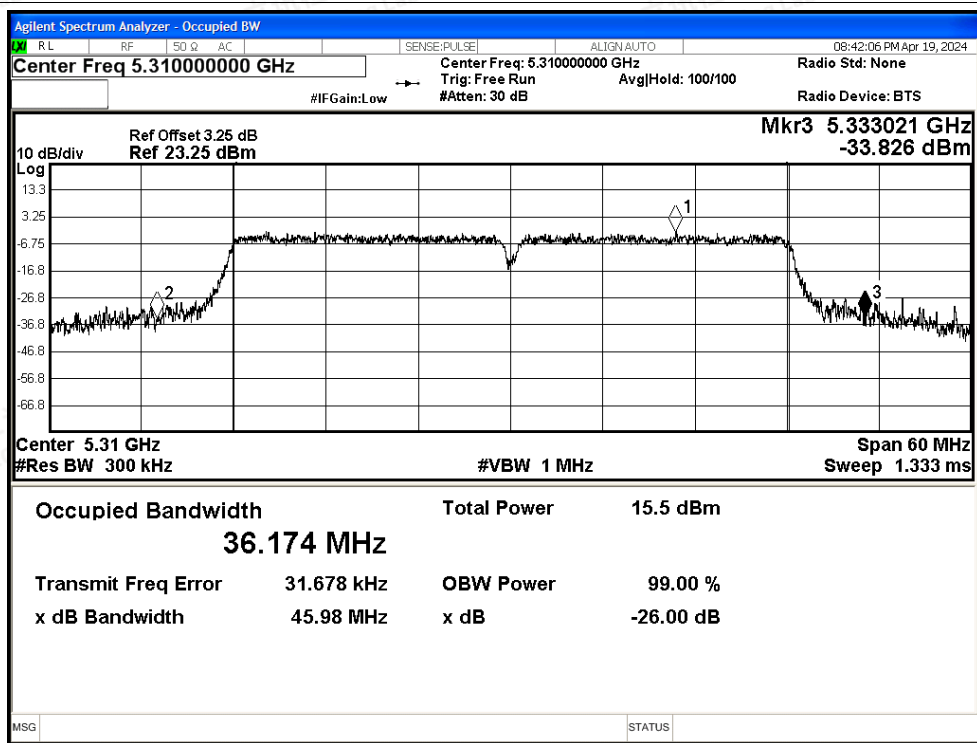




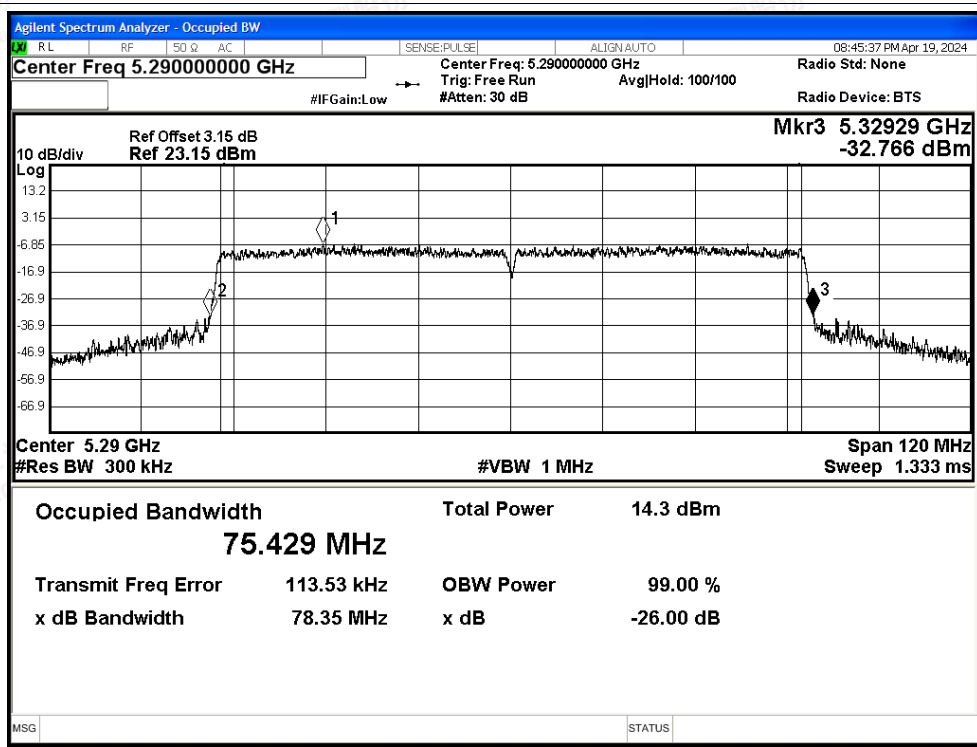




-26dB Bandwidth NVNT ac40 5310MHz Ant2



-26dB Bandwidth NVNT ac80 5290MHz Ant2





E.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.95	0.24	13.19	24	Pass
NVNT	a	5300	Ant1	12.85	0.24	13.09	24	Pass
NVNT	a	5320	Ant1	12.47	0.24	12.71	24	Pass
NVNT	n20	5260	Ant1	11.5	0.28	11.78	24	Pass
NVNT	n20	5300	Ant1	11.21	0.28	11.49	24	Pass
NVNT	n20	5320	Ant1	11.82	0.28	12.1	24	Pass
NVNT	n40	5270	Ant1	10.66	0.23	10.89	24	Pass
NVNT	n40	5310	Ant1	10.59	0.24	10.83	24	Pass
NVNT	ac20	5260	Ant1	11.43	0.28	11.71	24	Pass
NVNT	ac20	5300	Ant1	11.21	0.28	11.49	24	Pass
NVNT	ac20	5320	Ant1	11.76	0.28	12.04	24	Pass
NVNT	ac40	5270	Ant1	10.13	0.24	10.37	24	Pass
NVNT	ac40	5310	Ant1	10.99	0.24	11.23	24	Pass
NVNT	ac80	5290	Ant1	9.17	0.25	9.42	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant2	11.04	0.24	11.28	24	Pass
NVNT	a	5300	Ant2	11.04	0.24	11.28	24	Pass
NVNT	a	5320	Ant2	11.5	0.24	11.74	24	Pass
NVNT	n20	5260	Ant2	10.71	0.28	10.99	24	Pass
NVNT	n20	5300	Ant2	10.26	0.28	10.54	24	Pass
NVNT	n20	5320	Ant2	10.91	0.28	11.19	24	Pass
NVNT	n40	5270	Ant2	9.99	0.24	10.23	24	Pass
NVNT	n40	5310	Ant2	9.95	0.24	10.19	24	Pass
NVNT	ac20	5260	Ant2	10.59	0.28	10.87	24	Pass
NVNT	ac20	5300	Ant2	10.24	0.28	10.52	24	Pass
NVNT	ac20	5320	Ant2	10.78	0.28	11.06	24	Pass
NVNT	ac40	5270	Ant2	9.37	0.24	9.61	24	Pass
NVNT	ac40	5310	Ant2	9.92	0.24	10.16	24	Pass
NVNT	ac80	5290	Ant2	8.45	0.25	8.7	24	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5260	11.78	10.99	14.41	24	Pass
NVNT	n20	5300	11.49	10.54	14.05	24	Pass
NVNT	n20	5320	12.1	11.19	14.68	24	Pass
NVNT	n40	5270	10.89	10.23	13.58	24	Pass
NVNT	n40	5310	10.83	10.19	13.53	24	Pass
NVNT	ac20	5260	11.71	10.87	14.32	24	Pass
NVNT	ac20	5300	11.49	10.52	14.04	24	Pass
NVNT	ac20	5320	12.04	11.06	14.59	24	Pass
NVNT	ac40	5270	10.37	9.61	13.02	24	Pass
NVNT	ac40	5310	11.23	10.16	13.74	24	Pass
NVNT	ac80	5290	9.42	8.7	12.09	24	Pass



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E.4 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	2.44	0.24	2.68	11	Pass
NVNT	a	5300	Ant1	2.15	0.24	2.39	11	Pass
NVNT	a	5320	Ant1	2.11	0.24	2.35	11	Pass
NVNT	n20	5260	Ant1	0.55	0.28	0.83	11	Pass
NVNT	n20	5300	Ant1	-0.02	0.28	0.26	11	Pass
NVNT	n20	5320	Ant1	1.13	0.28	1.41	11	Pass
NVNT	n40	5270	Ant1	-3.12	0.23	-2.89	11	Pass
NVNT	n40	5310	Ant1	-3.1	0.24	-2.86	11	Pass
NVNT	ac20	5260	Ant1	0.49	0.28	0.77	11	Pass
NVNT	ac20	5300	Ant1	0.41	0.28	0.69	11	Pass
NVNT	ac20	5320	Ant1	1.06	0.28	1.34	11	Pass
NVNT	ac40	5270	Ant1	-3.11	0.24	-2.87	11	Pass
NVNT	ac40	5310	Ant1	-2.99	0.24	-2.75	11	Pass
NVNT	ac80	5290	Ant1	-7.35	0.25	-7.1	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant2	0.74	0.24	0.98	11	Pass
NVNT	a	5300	Ant2	0.46	0.24	0.7	11	Pass
NVNT	a	5320	Ant2	0.96	0.24	1.2	11	Pass
NVNT	n20	5260	Ant2	0.07	0.28	0.35	11	Pass
NVNT	n20	5300	Ant2	-0.67	0.28	-0.39	11	Pass
NVNT	n20	5320	Ant2	0.13	0.28	0.41	11	Pass
NVNT	n40	5270	Ant2	-3.37	0.24	-3.13	11	Pass
NVNT	n40	5310	Ant2	-3.96	0.24	-3.72	11	Pass
NVNT	ac20	5260	Ant2	-0.1	0.28	0.18	11	Pass
NVNT	ac20	5300	Ant2	-0.62	0.28	-0.34	11	Pass
NVNT	ac20	5320	Ant2	0.19	0.28	0.47	11	Pass
NVNT	ac40	5270	Ant2	-4.27	0.24	-4.03	11	Pass
NVNT	ac40	5310	Ant2	-4.17	0.24	-3.93	11	Pass
NVNT	ac80	5290	Ant2	-8.31	0.25	-8.06	11	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5260	0.83	0.35	3.61	11	Pass
NVNT	n20	5300	0.26	-0.39	2.96	11	Pass
NVNT	n20	5320	1.41	0.41	3.95	11	Pass
NVNT	n40	5270	-2.89	-3.13	0.00	11	Pass
NVNT	n40	5310	-2.86	-3.72	-0.26	11	Pass
NVNT	ac20	5260	0.77	0.18	3.50	11	Pass
NVNT	ac20	5300	0.69	-0.34	3.22	11	Pass
NVNT	ac20	5320	1.34	0.47	3.94	11	Pass
NVNT	ac40	5270	-2.87	-4.03	-0.40	11	Pass
NVNT	ac40	5310	-2.75	-3.93	-0.29	11	Pass
NVNT	ac80	5290	-7.1	-8.06	-4.54	11	Pass

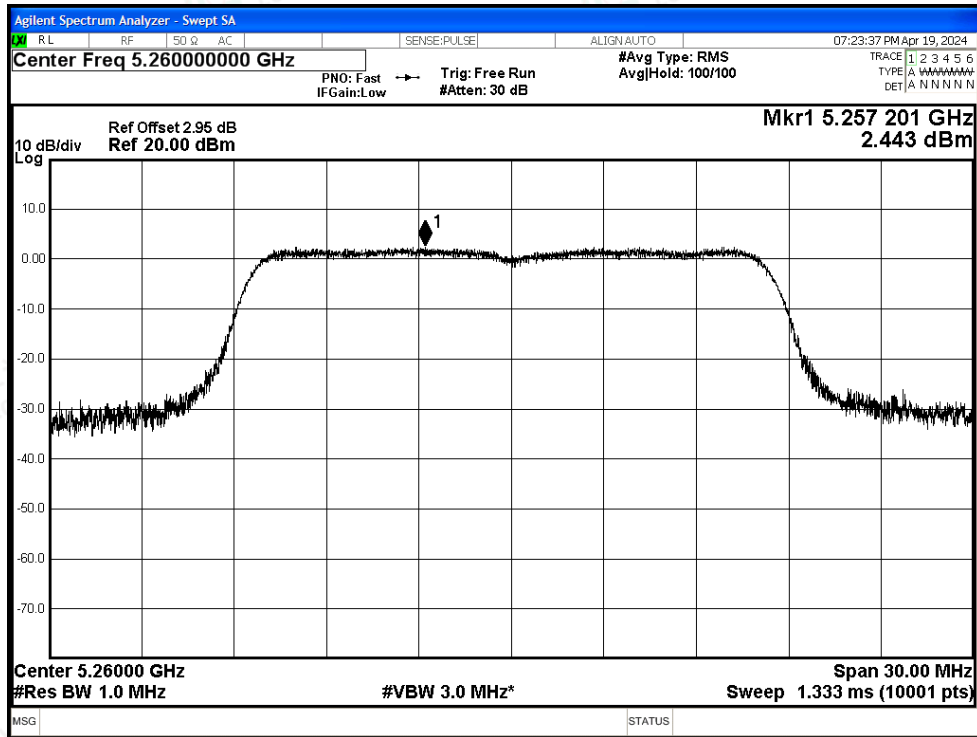


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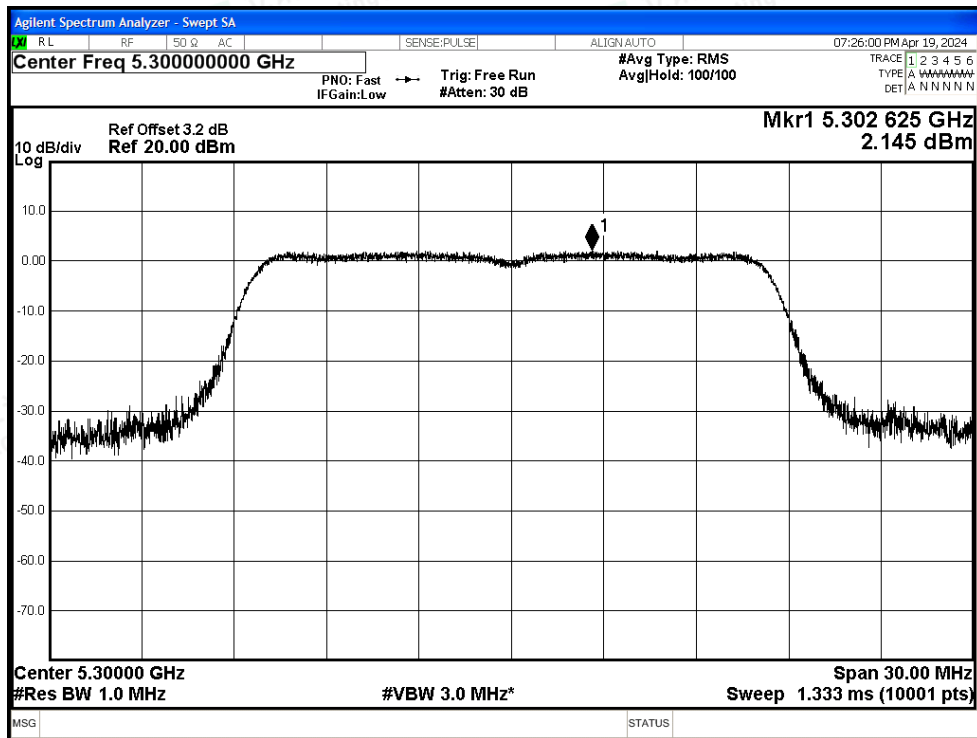


Test Graphs

PSD NVNT a 5260MHz Ant1

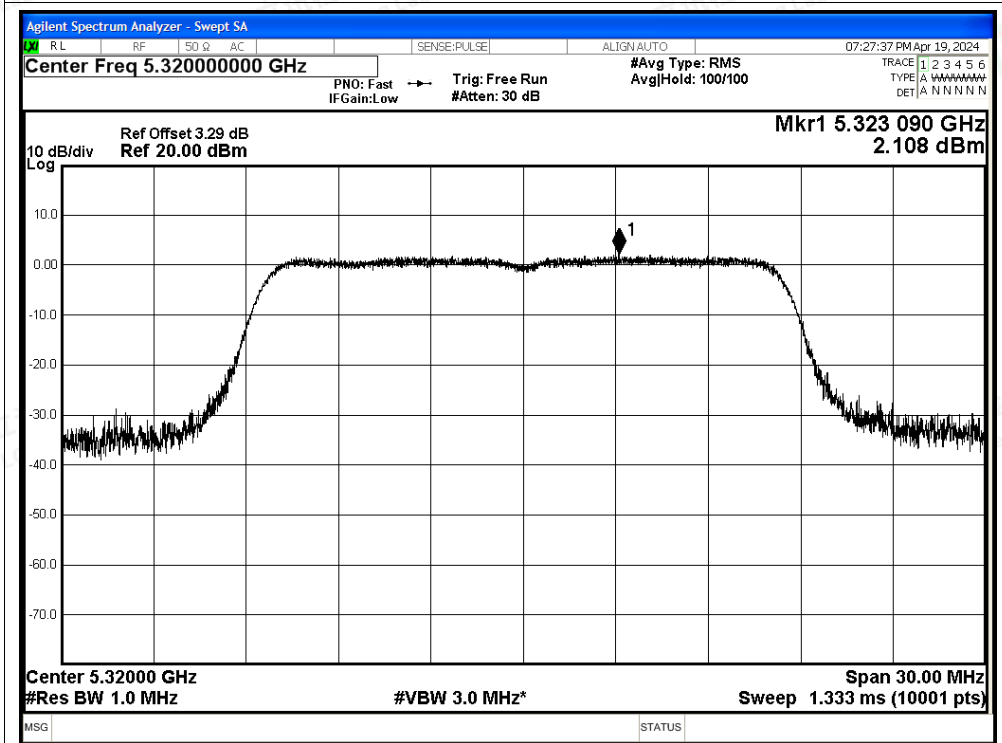


PSD NVNT a 5300MHz Ant1

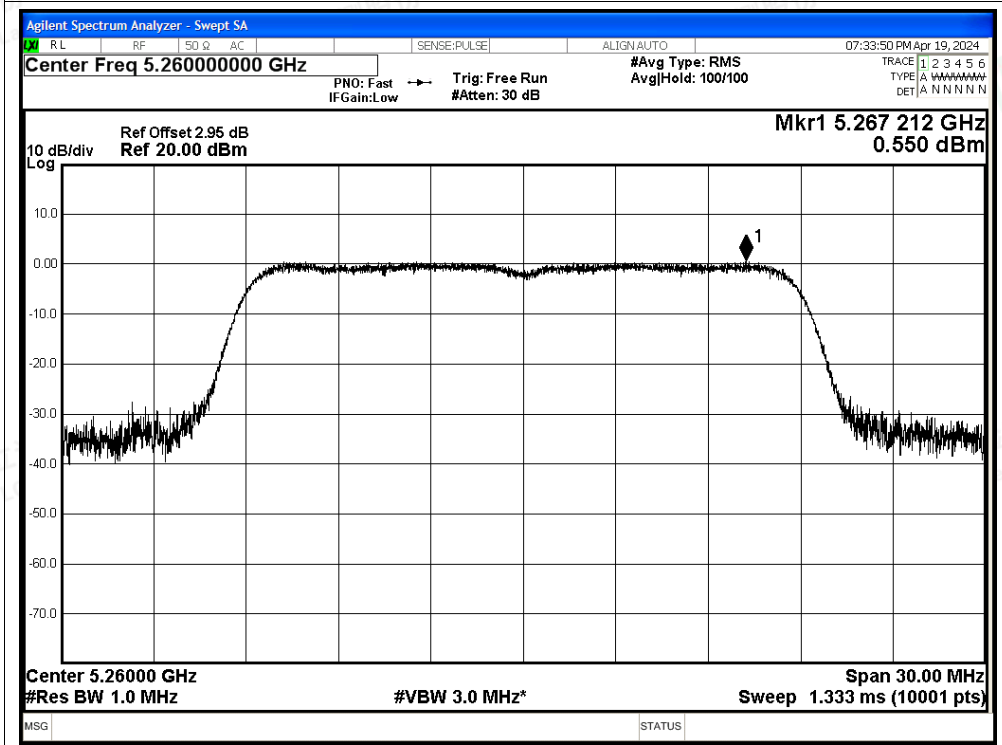


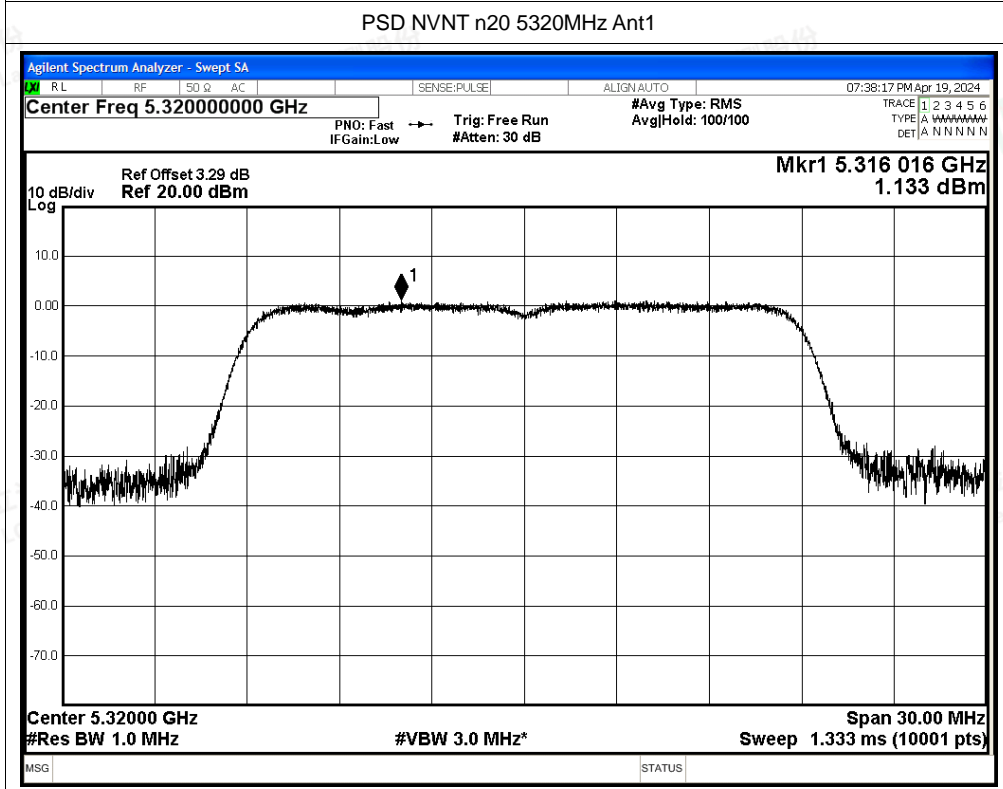
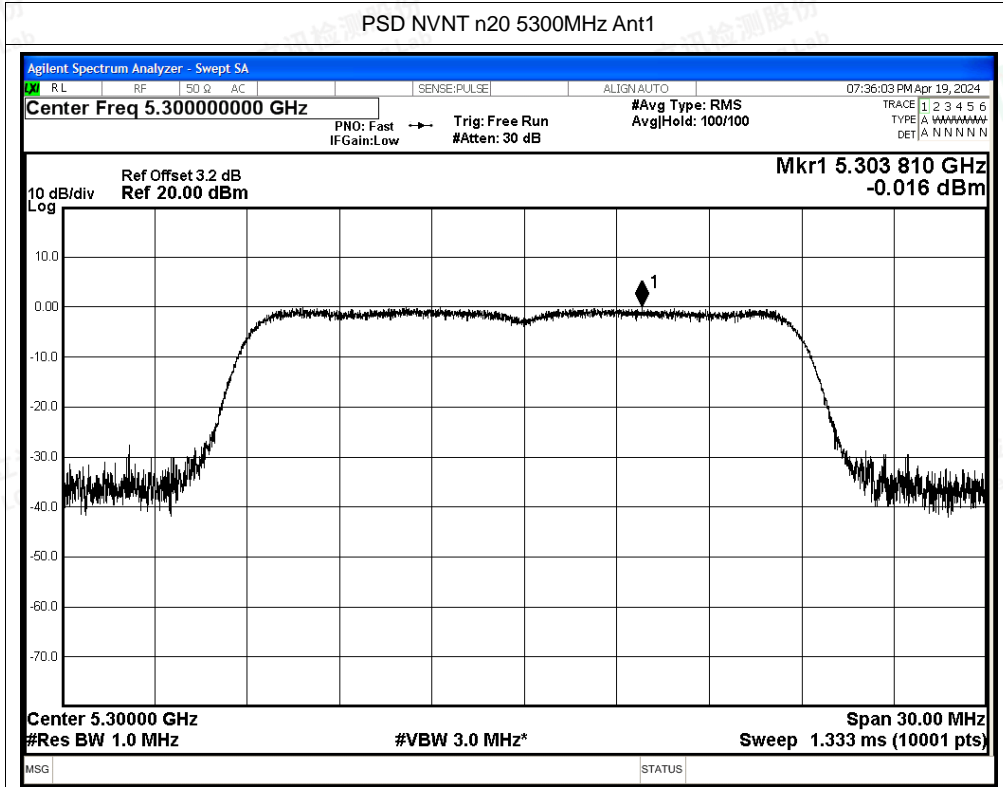


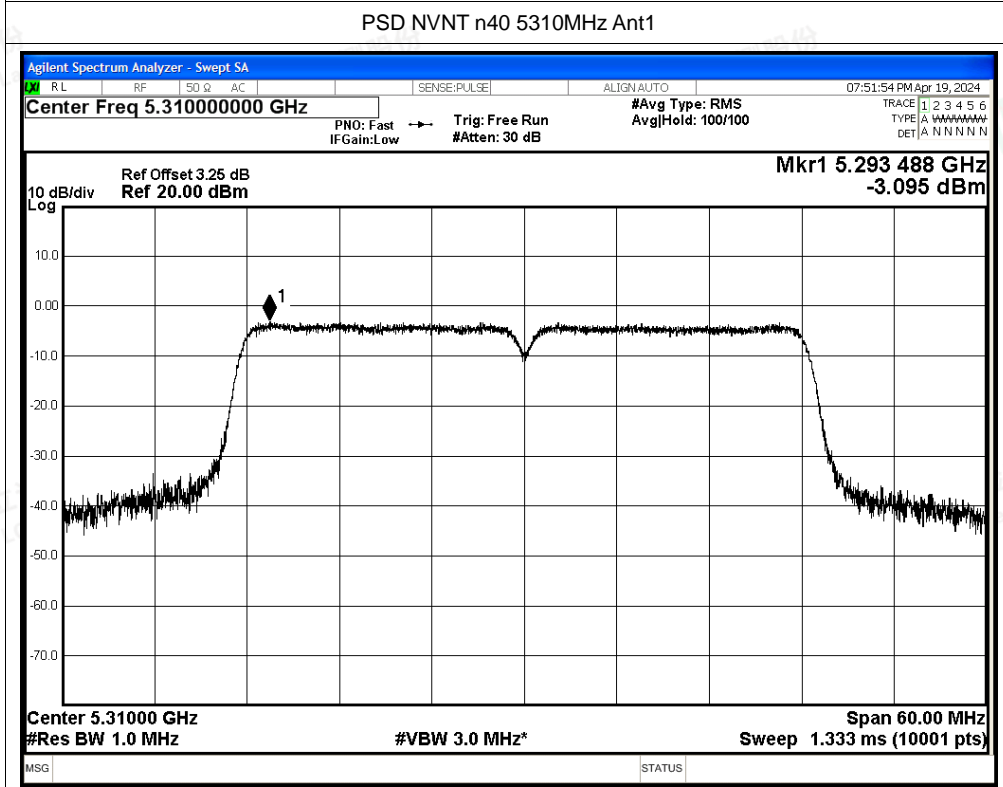
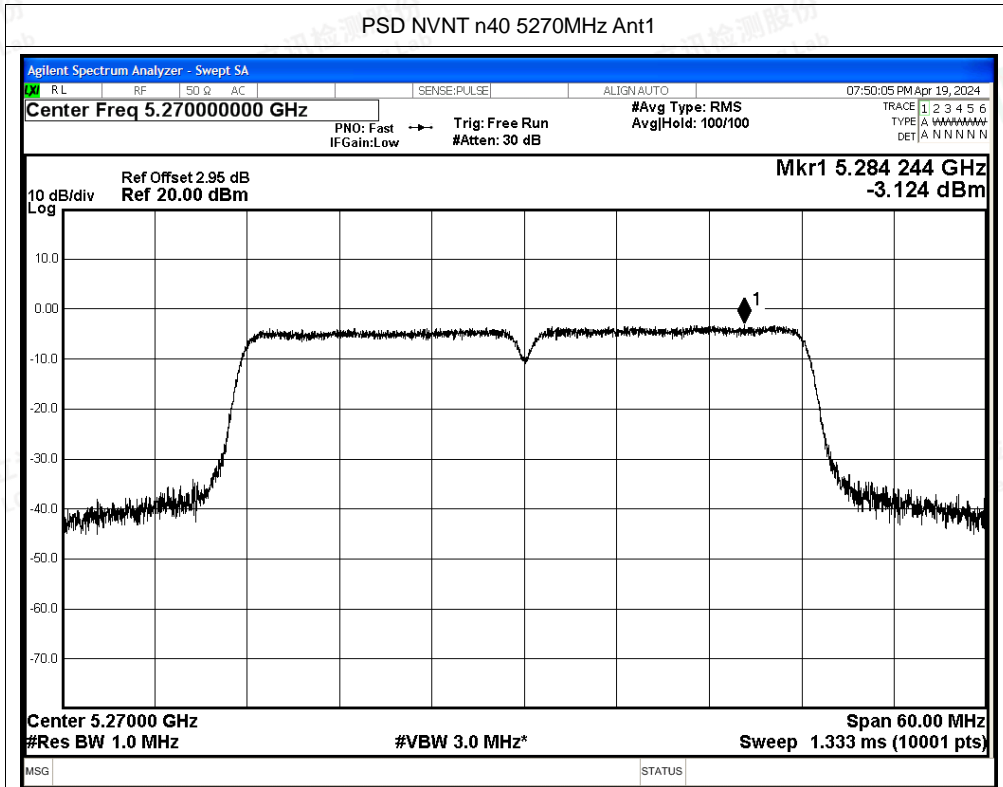
PSD NVNT a 5320MHz Ant1

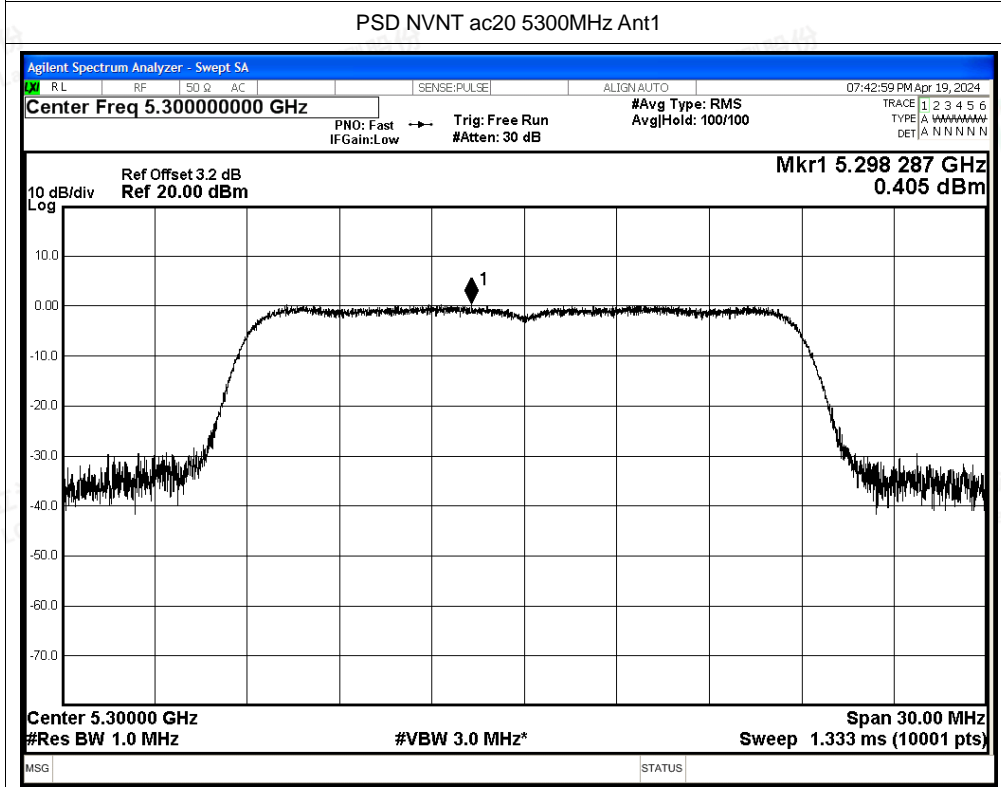
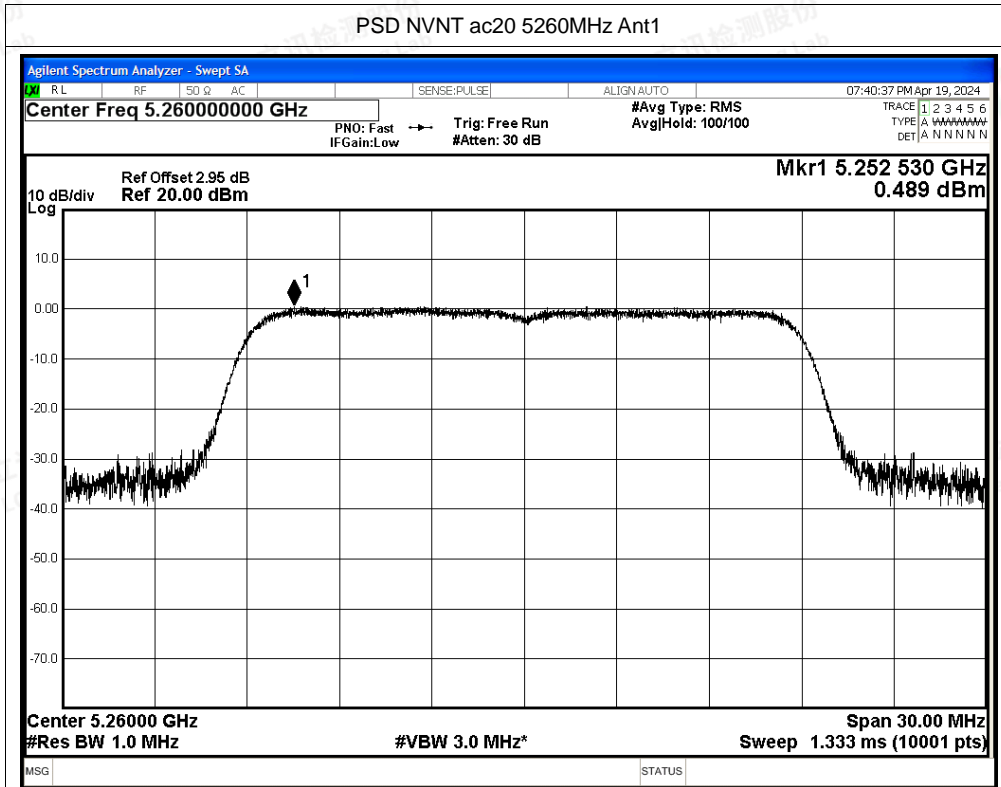


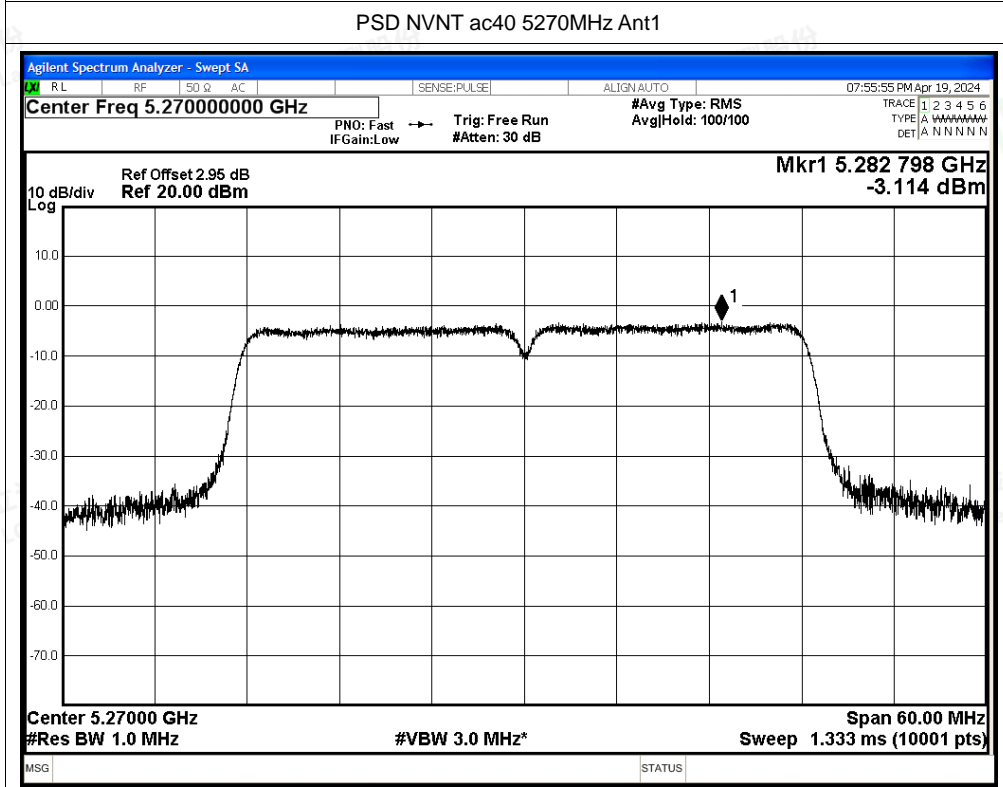
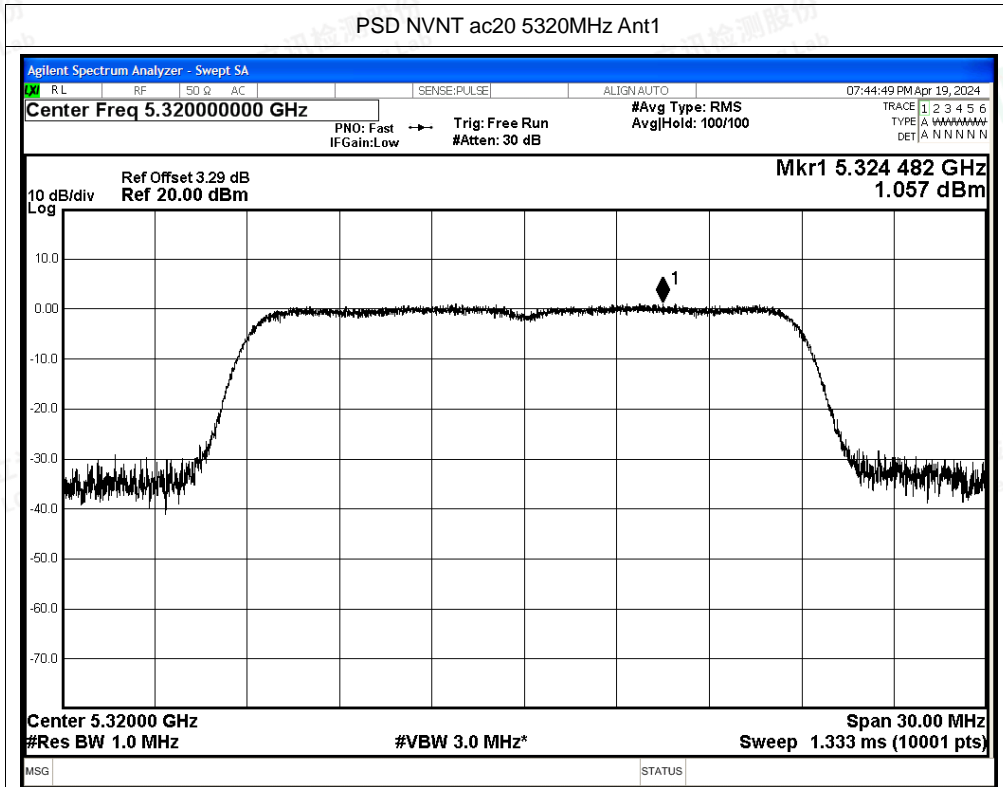
PSD NVNT n20 5260MHz Ant1

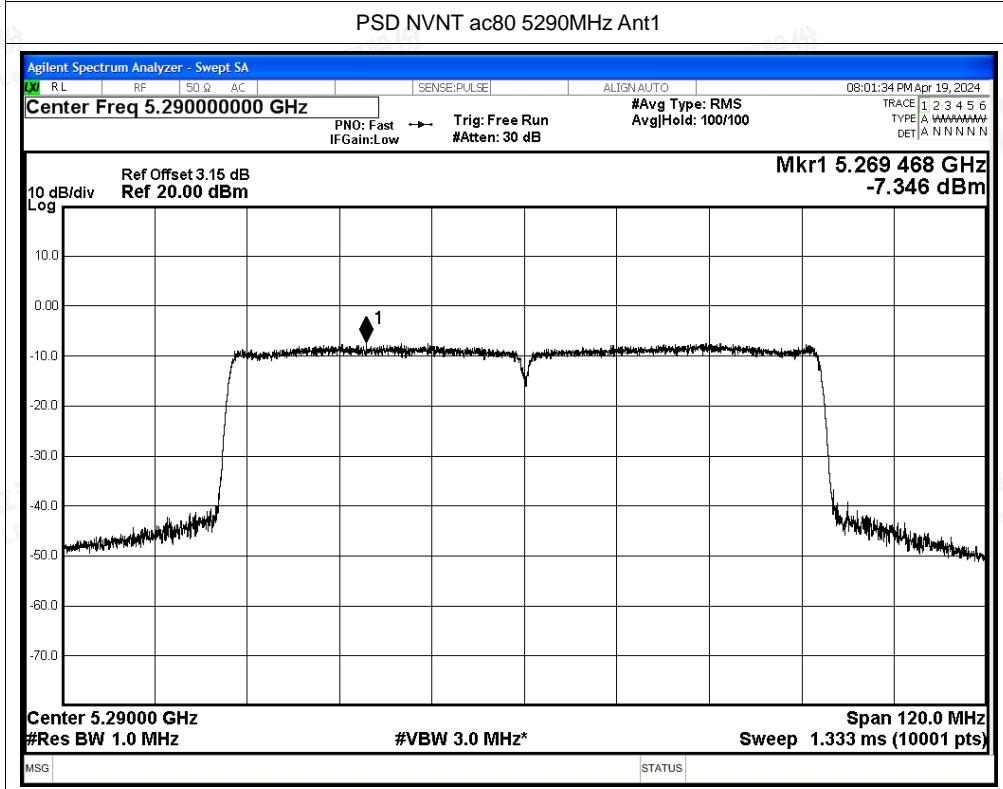
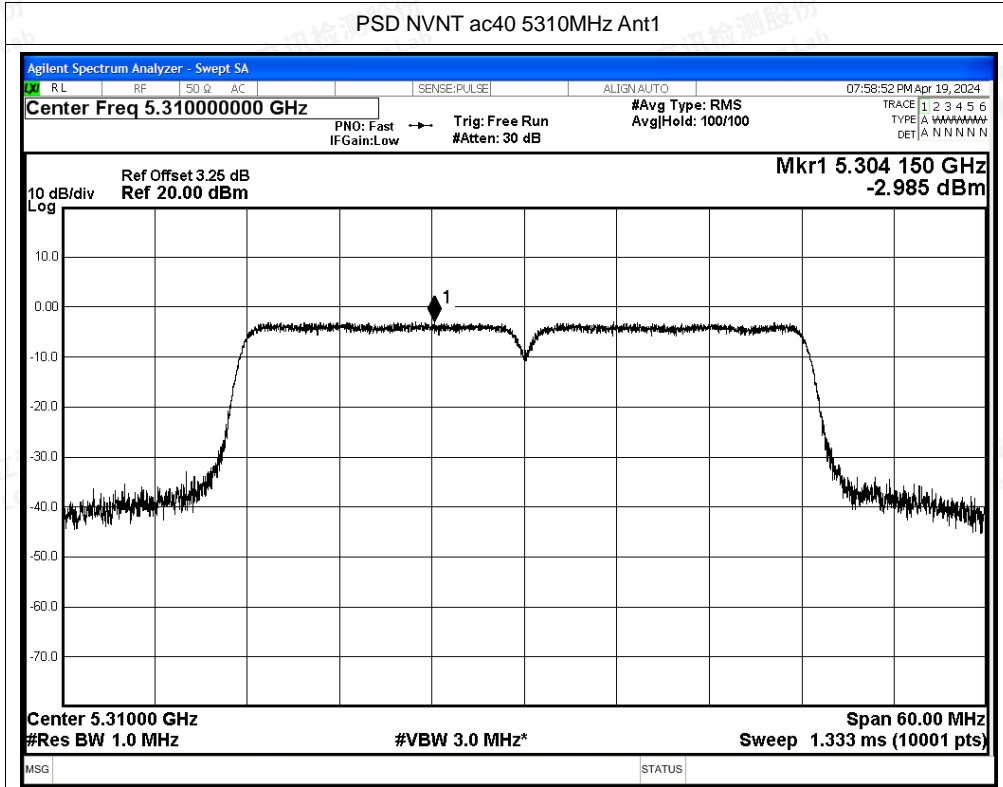








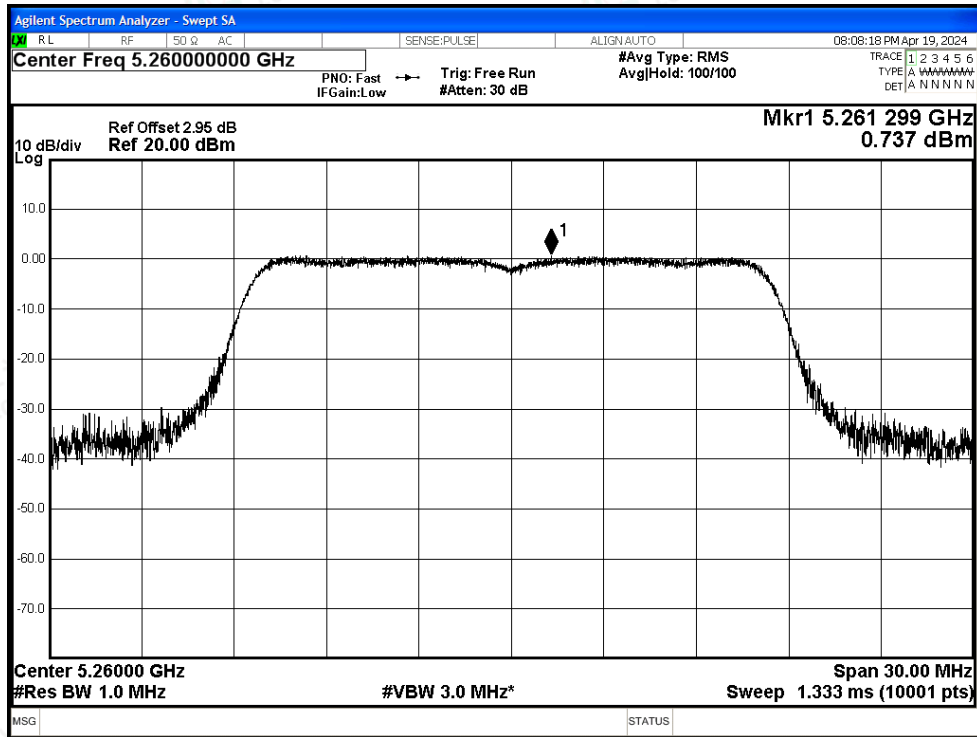




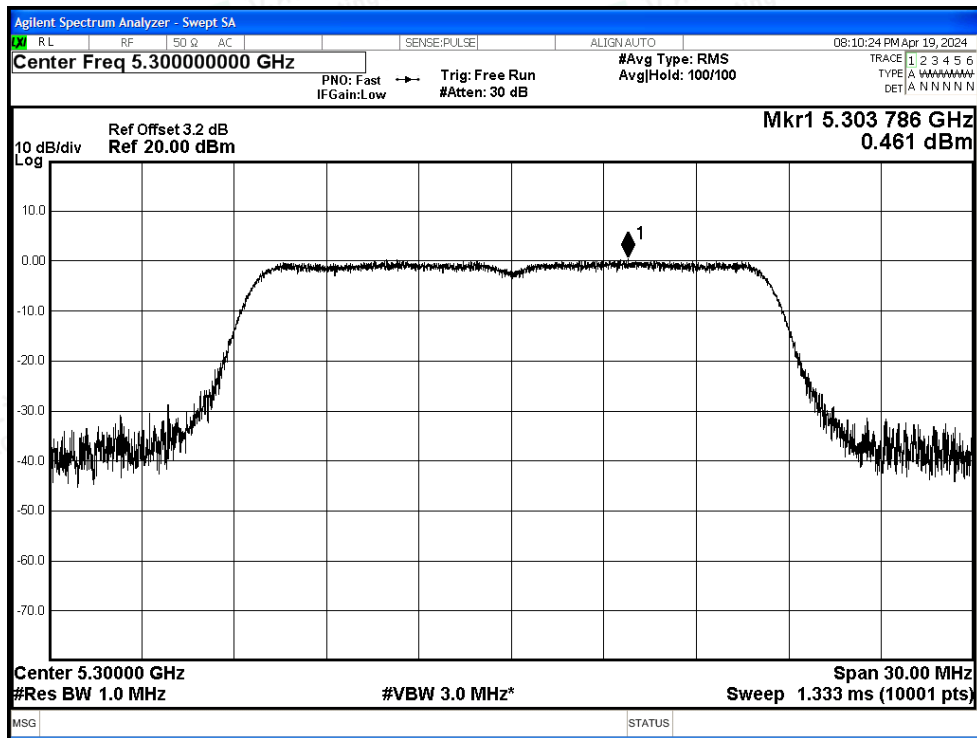


Test Graphs

PSD NVNT a 5260MHz Ant2

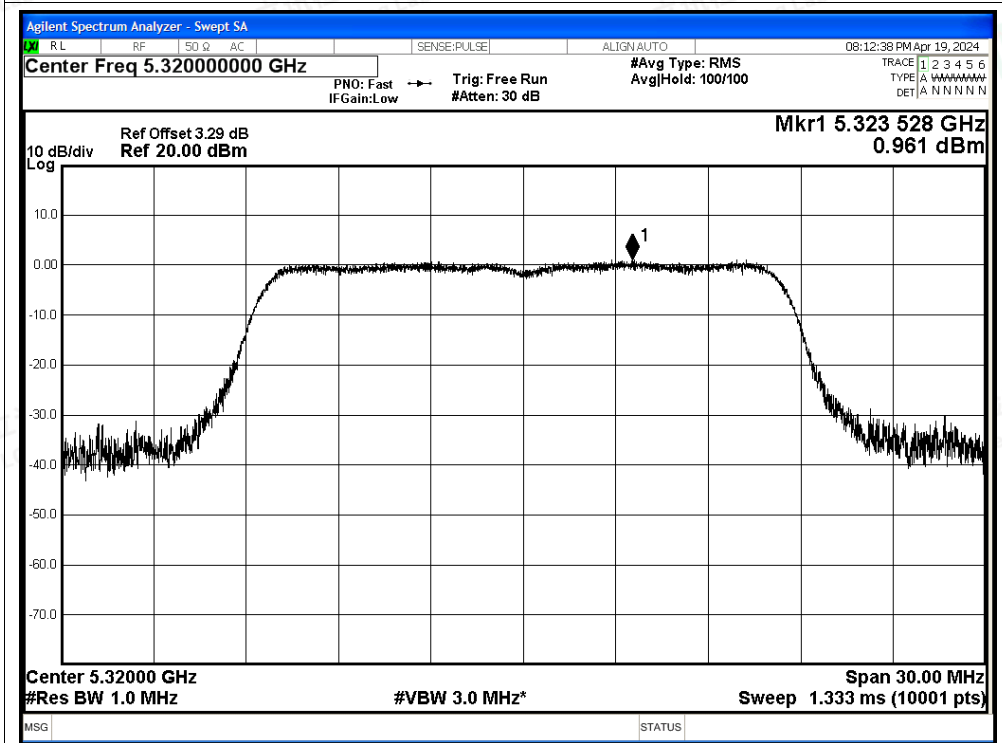


PSD NVNT a 5300MHz Ant2

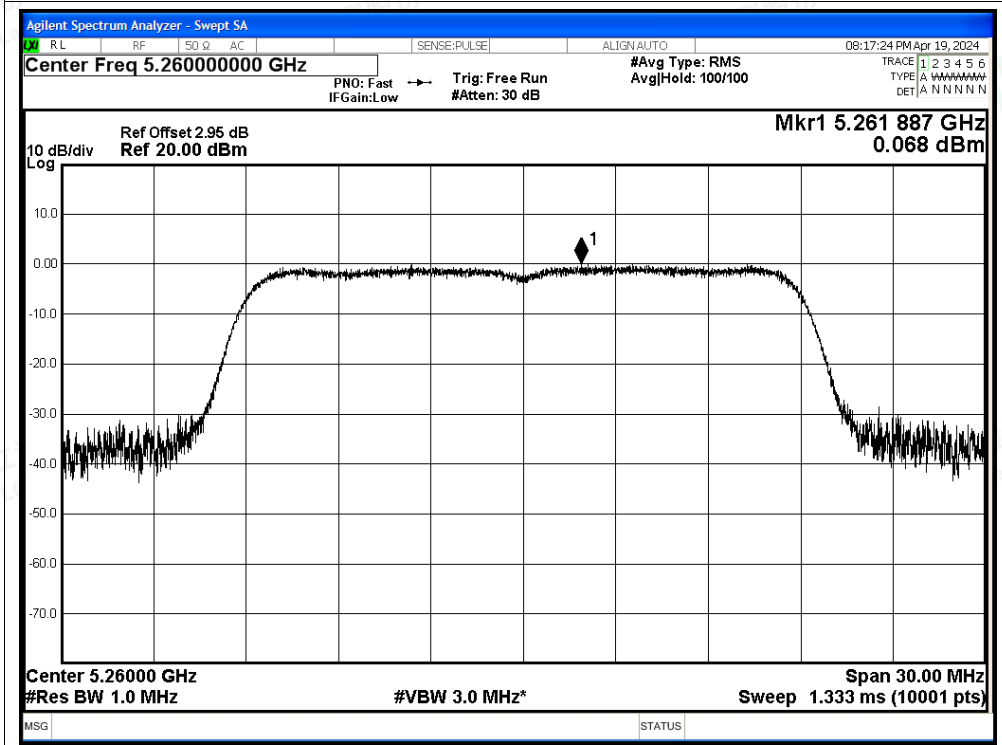


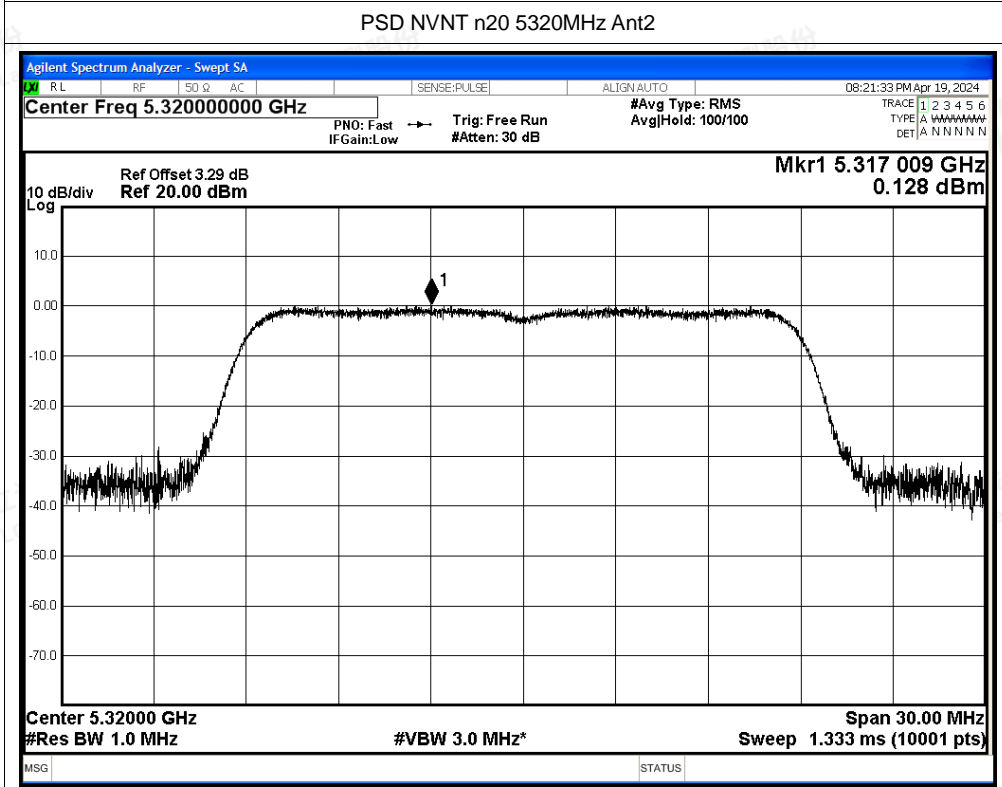
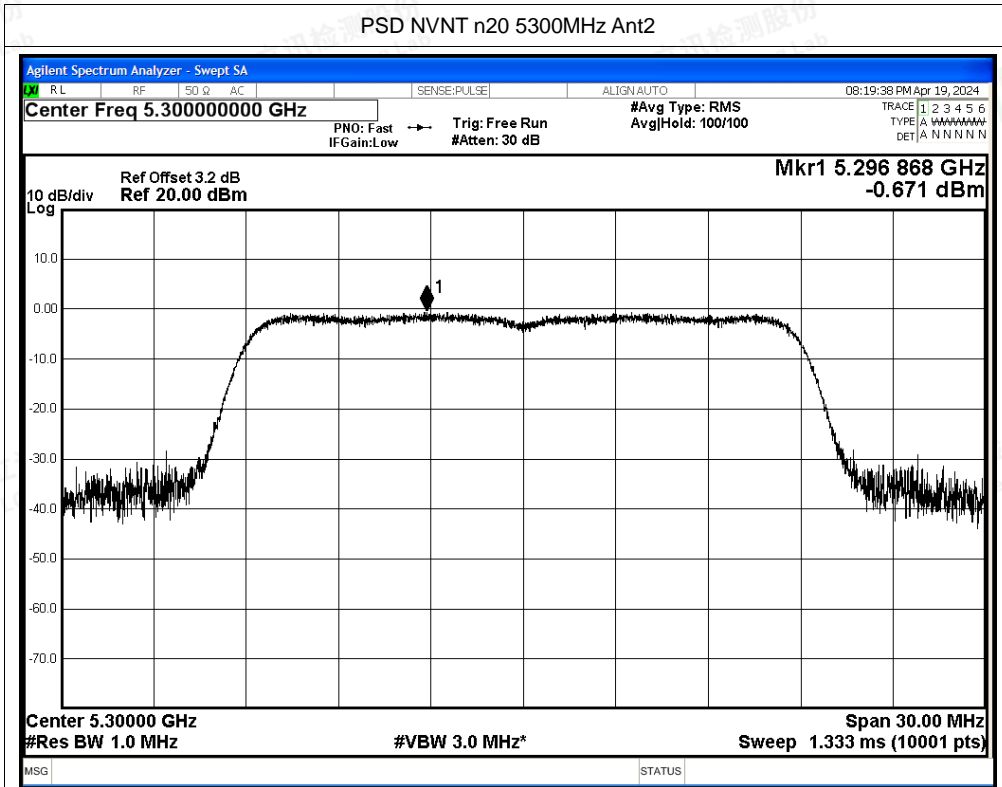


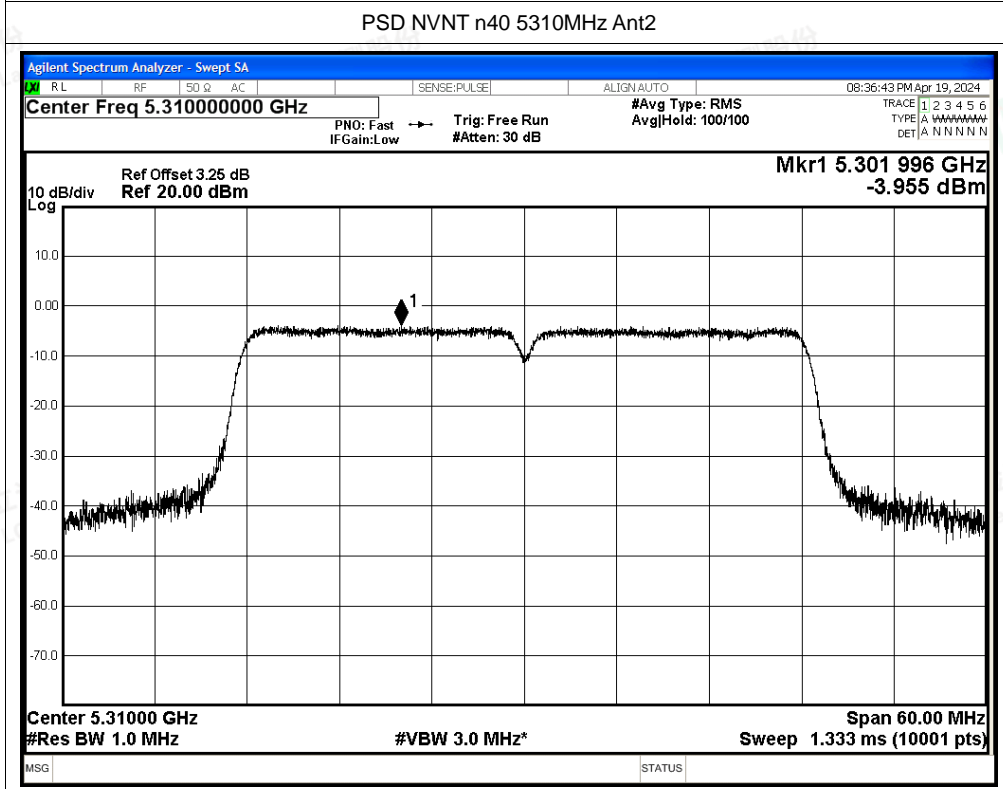
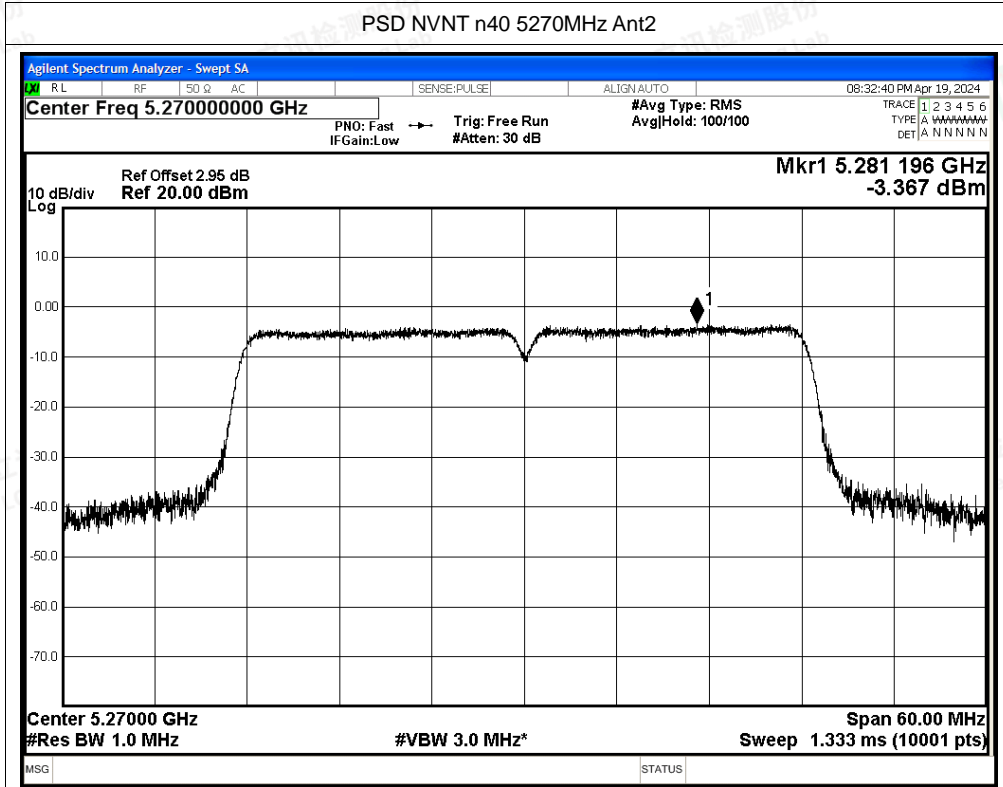
PSD NVNT a 5320MHz Ant2



PSD NVNT n20 5260MHz Ant2

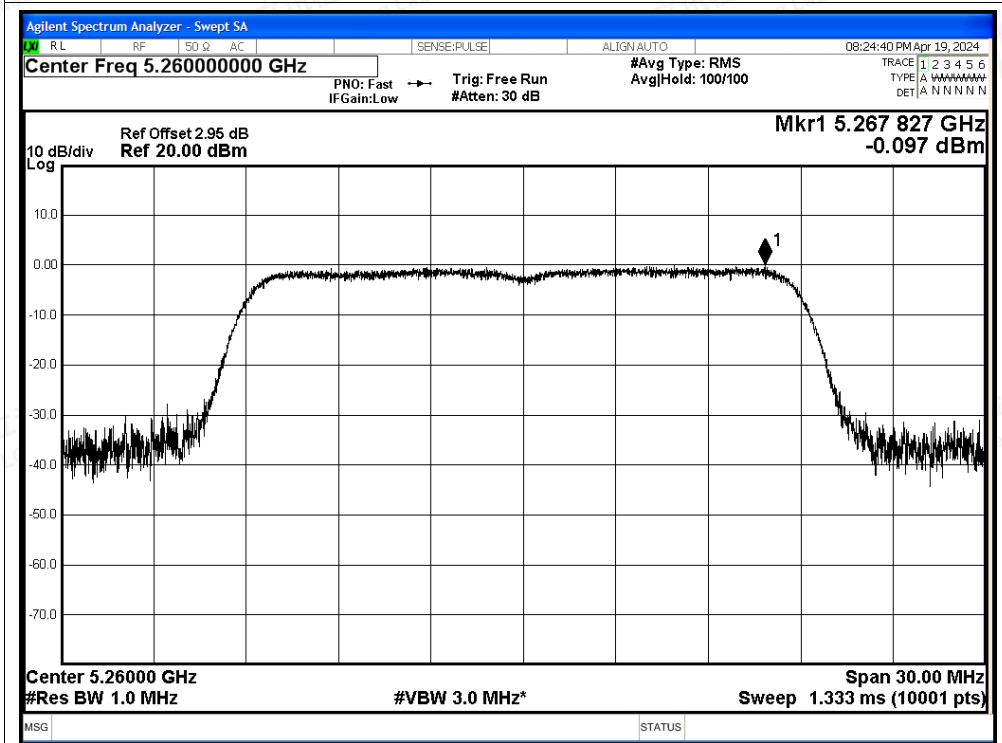




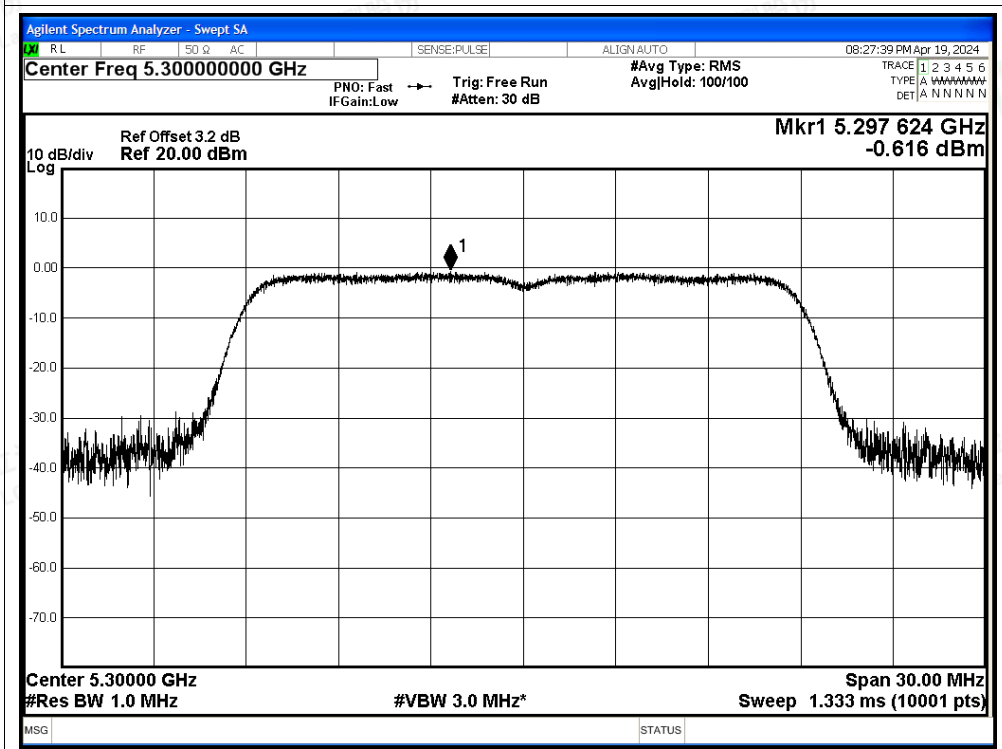




PSD NVNT ac20 5260MHz Ant2

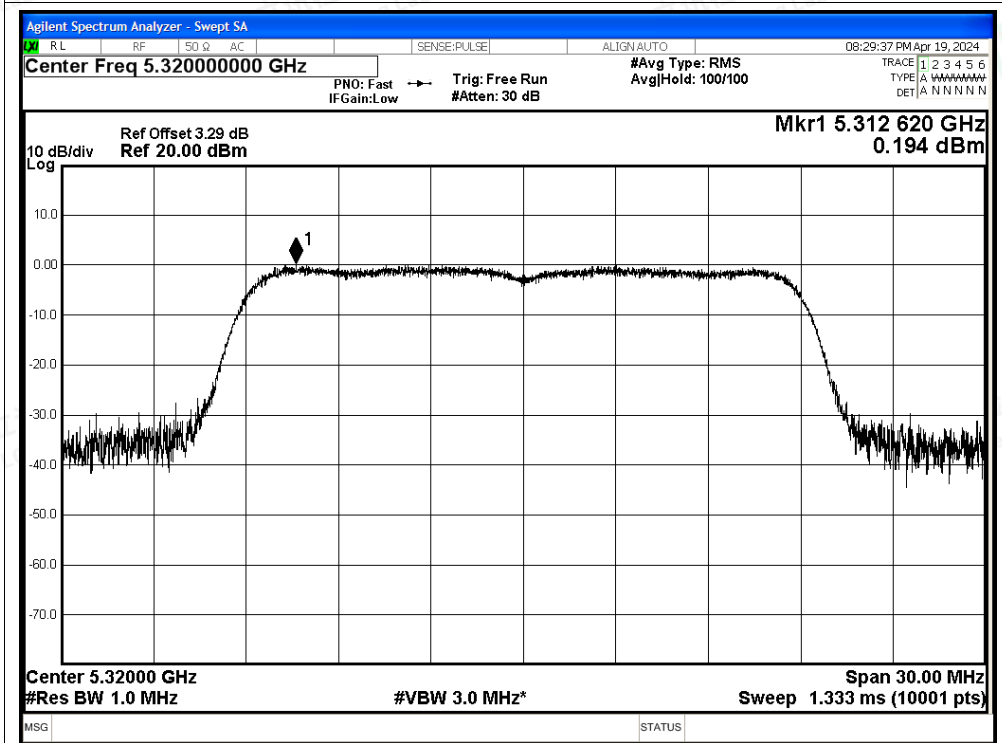


PSD NVNT ac20 5300MHz Ant2

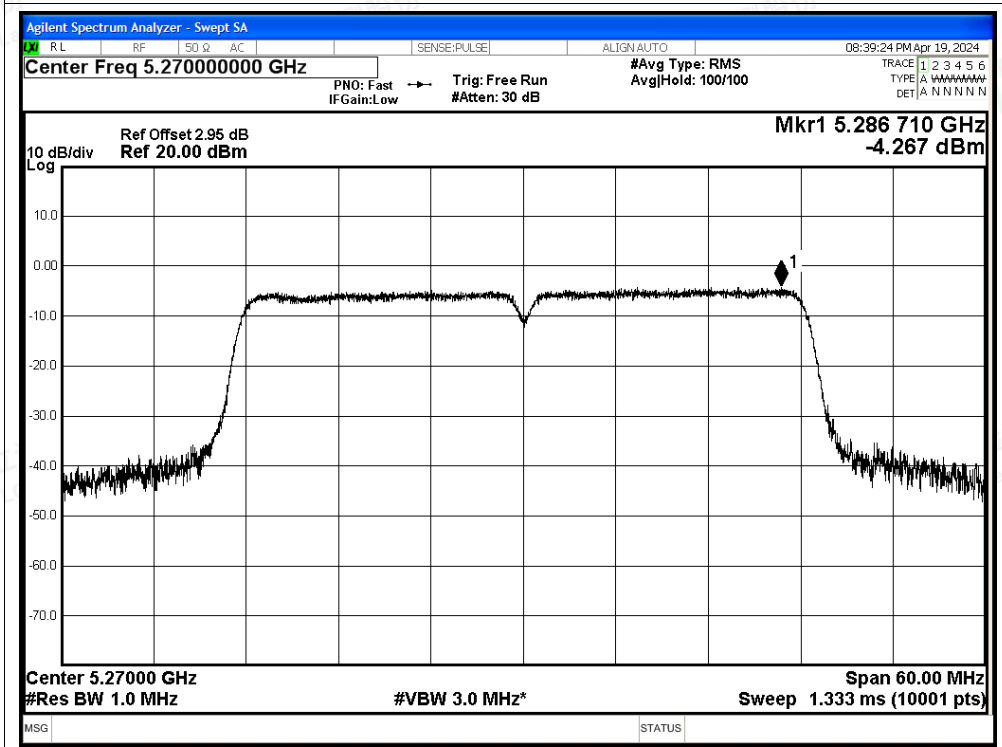




PSD NVNT ac20 5320MHz Ant2

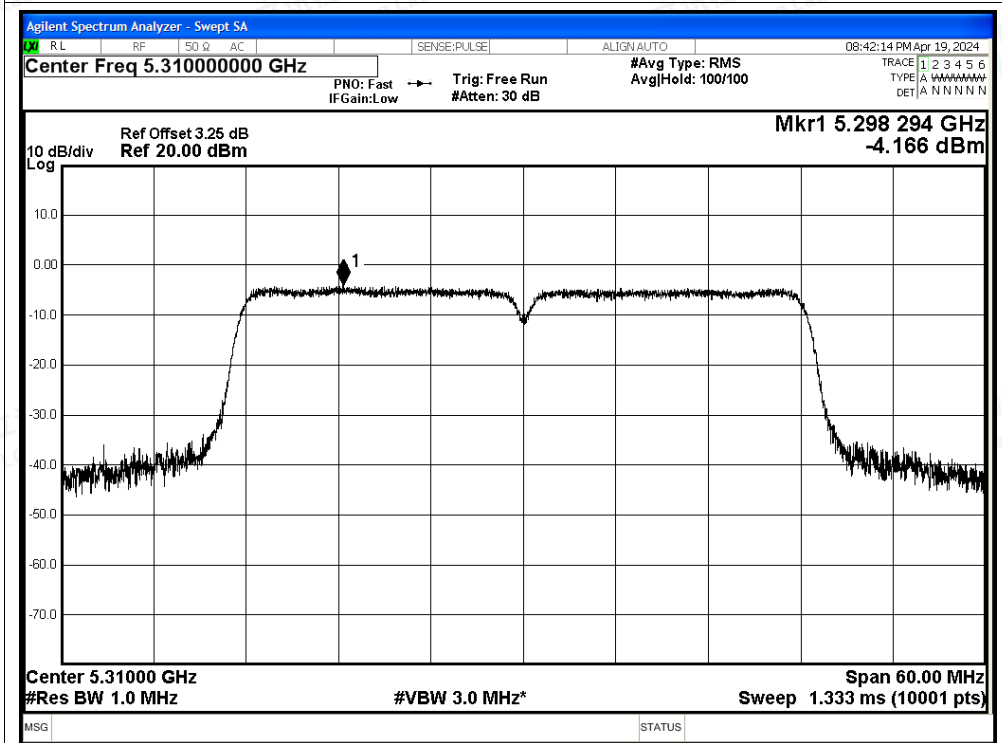


PSD NVNT ac40 5270MHz Ant2

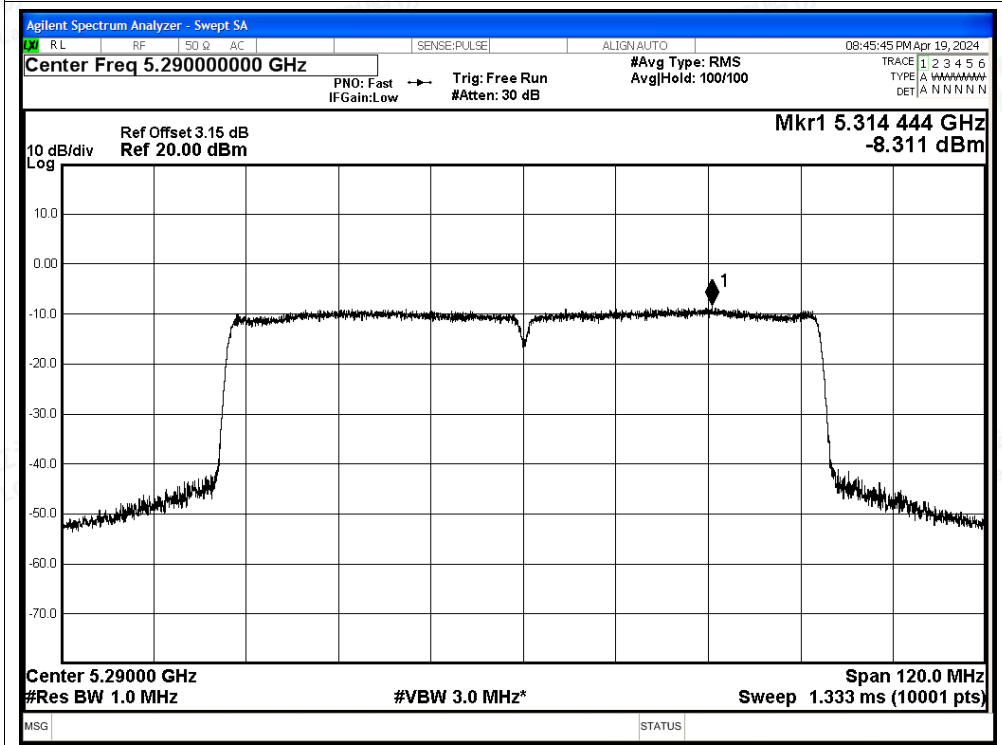




PSD NVNT ac40 5310MHz Ant2



PSD NVNT ac80 5290MHz Ant2





E.5 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a Ant1	5260	4500	-49.98	2.59	-	47.84	Peak	68.2	Pass
NVNT	a Ant1	5260	4500	-59.46	2.59	0.24	38.6	Average	54	Pass
NVNT	a Ant1	5260	4787.82	-45.8	2.59	-	52.02	Peak	68.2	Pass
NVNT	a Ant1	5260	4787.04	-54.22	2.59	0.24	43.84	Average	54	Pass
NVNT	a Ant1	5260	5150	-48.53	2.59	-	49.29	Peak	68.2	Pass
NVNT	a Ant1	5260	5150	-55.74	2.59	0.24	42.32	Average	54	Pass
NVNT	a Ant1	5320	5350	-40.51	2.59	-	57.31	Peak	68.2	Pass
NVNT	a Ant1	5320	5350	-54.5	2.59	0.24	43.56	Average	54	Pass
NVNT	a Ant1	5320	5350.6	-39.88	2.59	-	57.94	Peak	68.2	Pass
NVNT	a Ant1	5320	5351.2	-53.63	2.59	0.24	44.43	Average	54	Pass
NVNT	a Ant1	5320	5460	-49.49	2.59	-	48.33	Peak	68.2	Pass
NVNT	a Ant1	5320	5460	-57.81	2.59	0.24	40.25	Average	54	Pass
NVNT	n20 MIMO	5260	4500	-49.59	5.60	-	51.24	Peak	68.2	Pass
NVNT	n20 MIMO	5260	4500	-58.54	5.60	0.28	42.57	Average	54	Pass
NVNT	n20 MIMO	5260	4787.04	-45.76	5.60	-	55.07	Peak	68.2	Pass
NVNT	n20 MIMO	5260	4787.82	-54.78	5.60	0.28	46.33	Average	54	Pass
NVNT	n20 MIMO	5260	5150	-46.94	5.60	-	53.89	Peak	68.2	Pass
NVNT	n20 MIMO	5260	5150	-57.06	5.60	0.28	44.05	Average	54	Pass
NVNT	n20 MIMO	5320	5350	-40.2	5.60	-	60.63	Peak	68.2	Pass
NVNT	n20 MIMO	5320	5350	-52.7	5.60	0.28	48.41	Average	54	Pass
NVNT	n20 MIMO	5320	5351.6	-39.27	5.60	-	61.56	Peak	68.2	Pass
NVNT	n20 MIMO	5320	5460	-47.5	5.60	-	53.33	Peak	68.2	Pass
NVNT	n20 MIMO	5320	5460	-57.79	5.60	0.28	43.32	Average	54	Pass
NVNT	n40 MIMO	5270	4500	-50.12	5.60	-	50.71	Peak	68.2	Pass
NVNT	n40 MIMO	5270	4500	-58.89	5.60	0.23	42.17	Average	54	Pass
NVNT	n40 MIMO	5270	4805.37	-43.56	5.60	-	57.27	Peak	68.2	Pass
NVNT	n40 MIMO	5270	4806.99	-51.56	5.60	0.23	49.5	Average	54	Pass
NVNT	n40 MIMO	5270	5150	-48.73	5.60	-	52.1	Peak	68.2	Pass
NVNT	n40 MIMO	5270	5150	-56.75	5.60	0.23	44.31	Average	54	Pass
NVNT	n40 MIMO	5310	5350	-40.08	5.60	-	60.75	Peak	68.2	Pass
NVNT	n40 MIMO	5310	5350	-53.03	5.60	0.24	48.04	Average	54	Pass
NVNT	n40 MIMO	5310	5350.2	-38.04	5.60	-	62.79	Peak	68.2	Pass
NVNT	n40 MIMO	5310	5460	-50.11	5.60	-	50.72	Peak	68.2	Pass
NVNT	n40 MIMO	5310	5460	-58.56	5.60	0.24	42.51	Average	54	Pass
NVNT	ac20 MIMO	5260	4500	-50.31	5.60	-	50.52	Peak	68.2	Pass
NVNT	ac20 MIMO	5260	4500	-58.69	5.60	0.28	42.42	Average	54	Pass





NVNT	ac20 MIMO	5260	4960.98	-45.81	5.60	-	55.02	Peak	68.2	Pass
NVNT	ac20 MIMO	5260	4787.82	-54.81	5.60	0.28	46.3	Average	54	Pass
NVNT	ac20 MIMO	5260	5150	-47.94	5.60	-	52.89	Peak	68.2	Pass
NVNT	ac20 MIMO	5260	5150	-55.99	5.60	0.28	45.12	Average	54	Pass
NVNT	ac20 MIMO	5320	5350	-41.47	5.60	-	59.36	Peak	68.2	Pass
NVNT	ac20 MIMO	5320	5350	-54.55	5.60	0.28	46.56	Average	54	Pass
NVNT	ac20 MIMO	5320	5350.6	-36.96	5.60	-	63.87	Peak	68.2	Pass
NVNT	ac20 MIMO	5320	5351.6	-54.33	5.60	0.28	46.78	Average	54	Pass
NVNT	ac20 MIMO	5320	5460	-50.53	5.60	-	50.3	Peak	68.2	Pass
NVNT	ac20 MIMO	5320	5460	-57.9	5.60	0.28	43.21	Average	54	Pass
NVNT	ac40 MIMO	5270	4500	-51.09	5.60	-	49.74	Peak	68.2	Pass
NVNT	ac40 MIMO	5270	4500	-59.25	5.60	0.24	41.82	Average	54	Pass
NVNT	ac40 MIMO	5270	4807.8	-43.93	5.60	-	56.9	Peak	68.2	Pass
NVNT	ac40 MIMO	5270	4806.99	-51.91	5.60	0.24	49.16	Average	54	Pass
NVNT	ac40 MIMO	5270	5150	-49.54	5.60	-	51.29	Peak	68.2	Pass
NVNT	ac40 MIMO	5270	5150	-56.82	5.60	0.24	44.25	Average	54	Pass
NVNT	ac40 MIMO	5310	5350	-41.78	5.60	-	59.05	Peak	68.2	Pass
NVNT	ac40 MIMO	5310	5350	-54.22	5.60	0.24	46.85	Average	54	Pass
NVNT	ac40 MIMO	5310	5350.4	-40.02	5.60	-	60.81	Peak	68.2	Pass
NVNT	ac40 MIMO	5310	5350.2	-52.92	5.60	0.24	48.15	Average	54	Pass
NVNT	ac40 MIMO	5310	5460	-49.28	5.60	-	51.55	Peak	68.2	Pass
NVNT	ac40 MIMO	5310	5460	-57.72	5.60	0.24	43.35	Average	54	Pass
NVNT	ac80 MIMO	5290	4500	-51.08	5.60	-	49.75	Peak	68.2	Pass
NVNT	ac80 MIMO	5290	4500	-58.81	5.60	0.25	42.27	Average	54	Pass
NVNT	ac80 MIMO	5290	5149.89	-45.54	5.60	-	55.29	Peak	68.2	Pass
NVNT	ac80 MIMO	5290	5148.15	-55.71	5.60	0.25	45.37	Average	54	Pass
NVNT	ac80 MIMO	5290	5150	-45.54	5.60	-	55.29	Peak	68.2	Pass
NVNT	ac80 MIMO	5290	5150	-55.95	5.60	0.25	45.13	Average	54	Pass
NVNT	ac80 MIMO	5290	5350	-38.86	5.60	-	61.97	Peak	68.2	Pass
NVNT	ac80 MIMO	5290	5350	-54.57	5.60	0.25	46.51	Average	54	Pass
NVNT	ac80 MIMO	5290	5460	-50.28	5.60	-	50.55	Peak	68.2	Pass
NVNT	ac80 MIMO	5290	5460	-57.57	5.60	0.25	43.51	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna1 data.

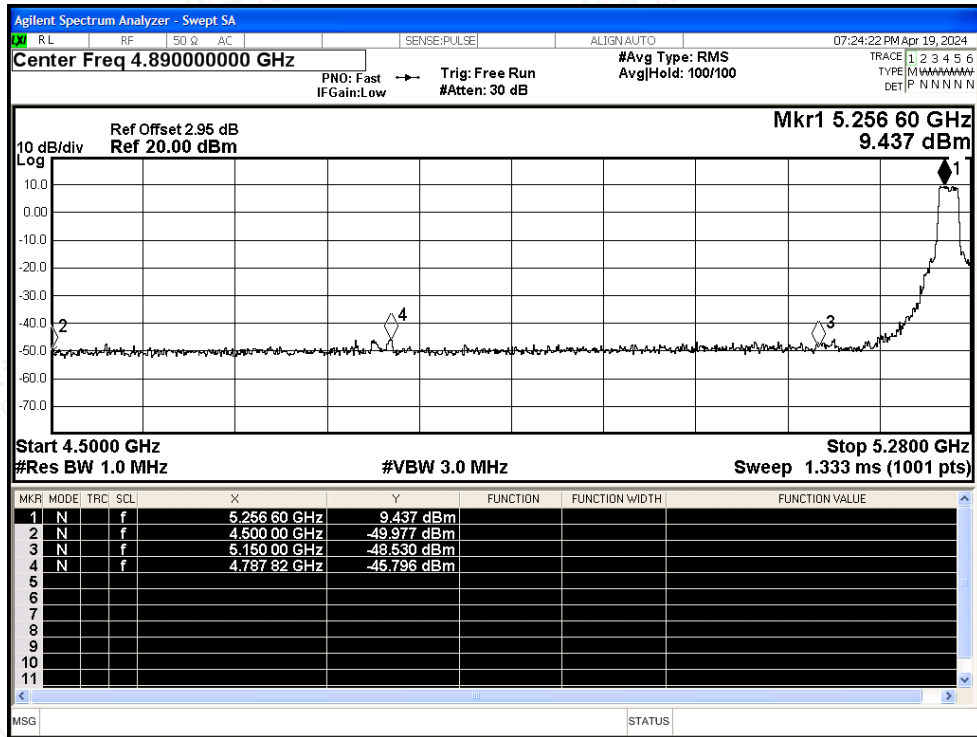


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 Scan code to check authenticity

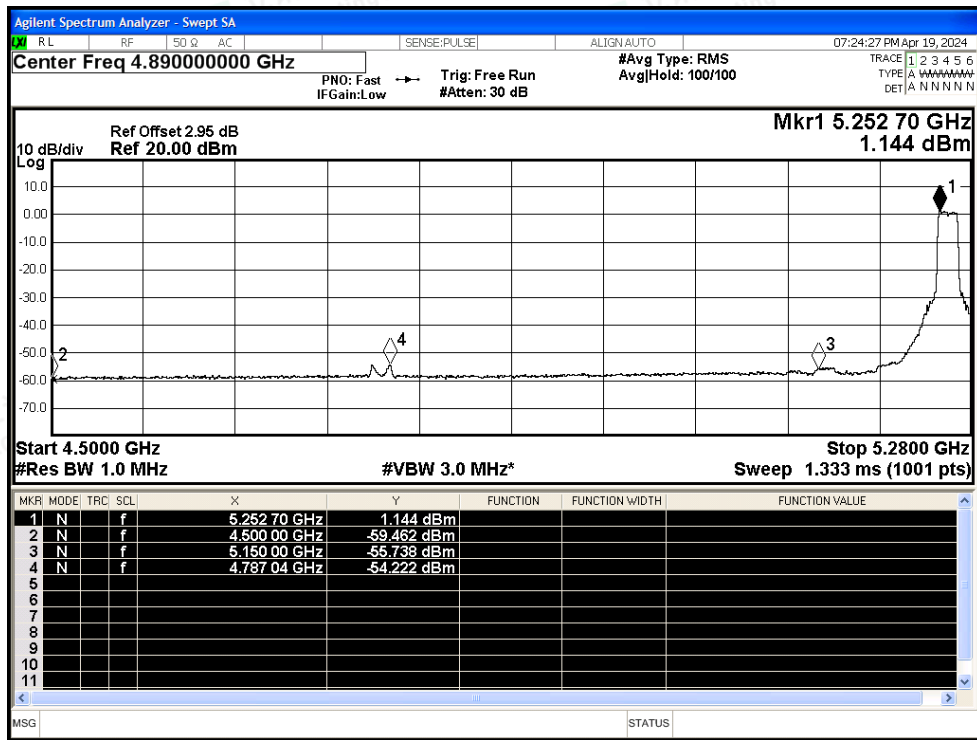


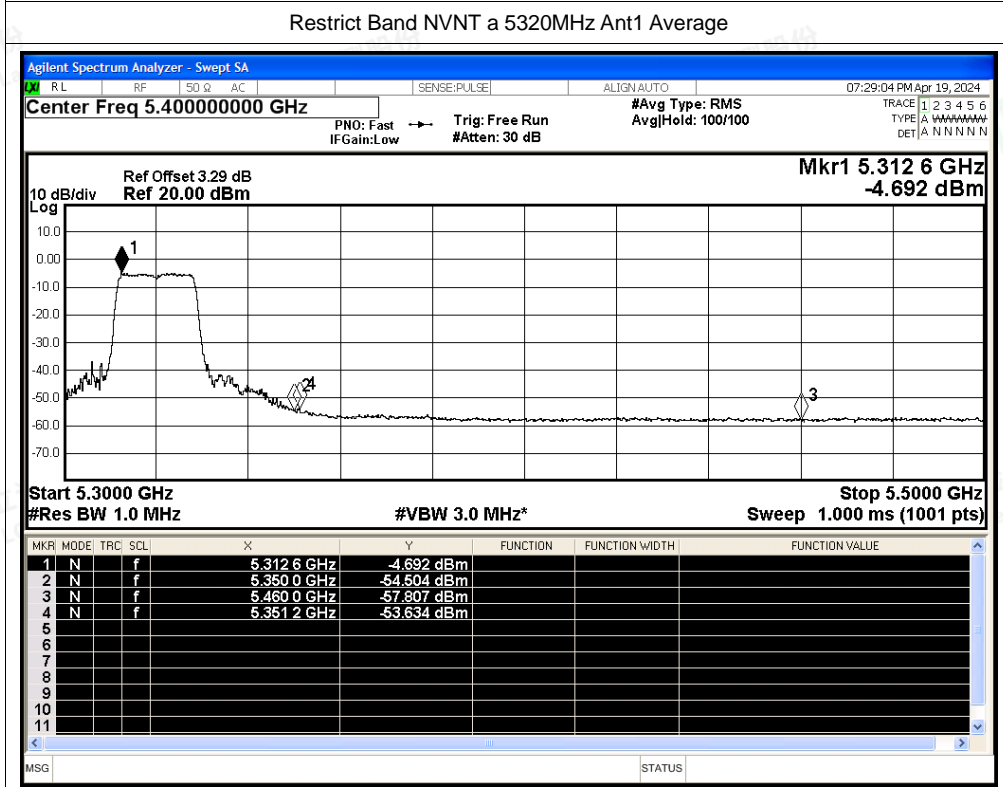
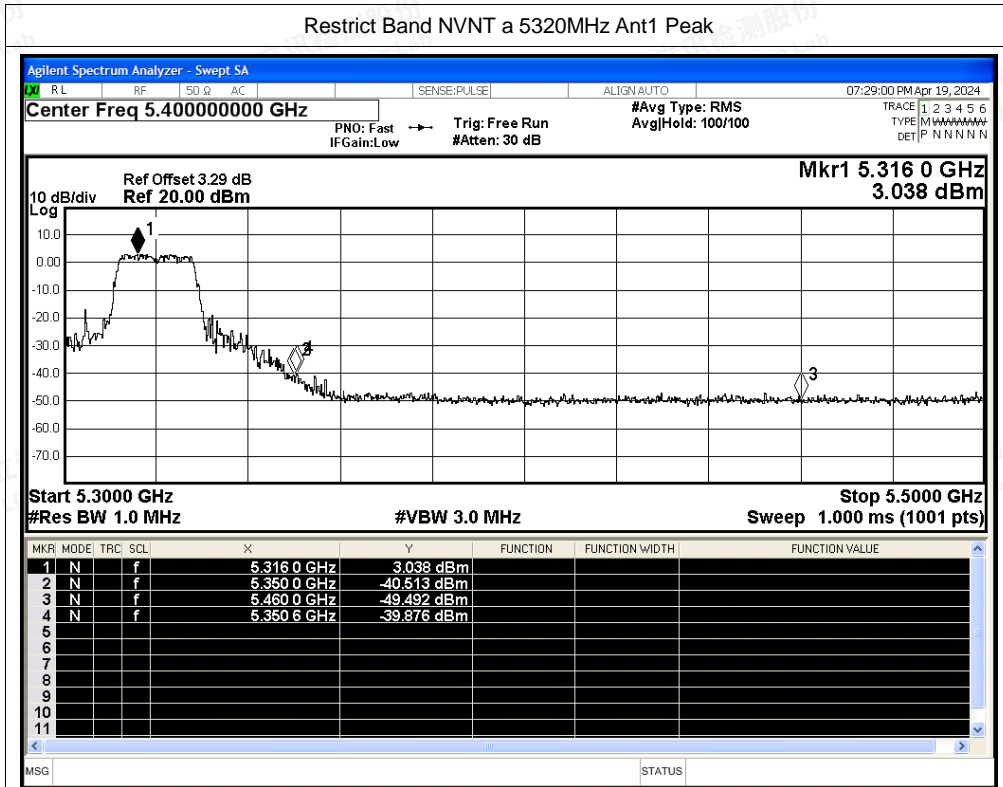
Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



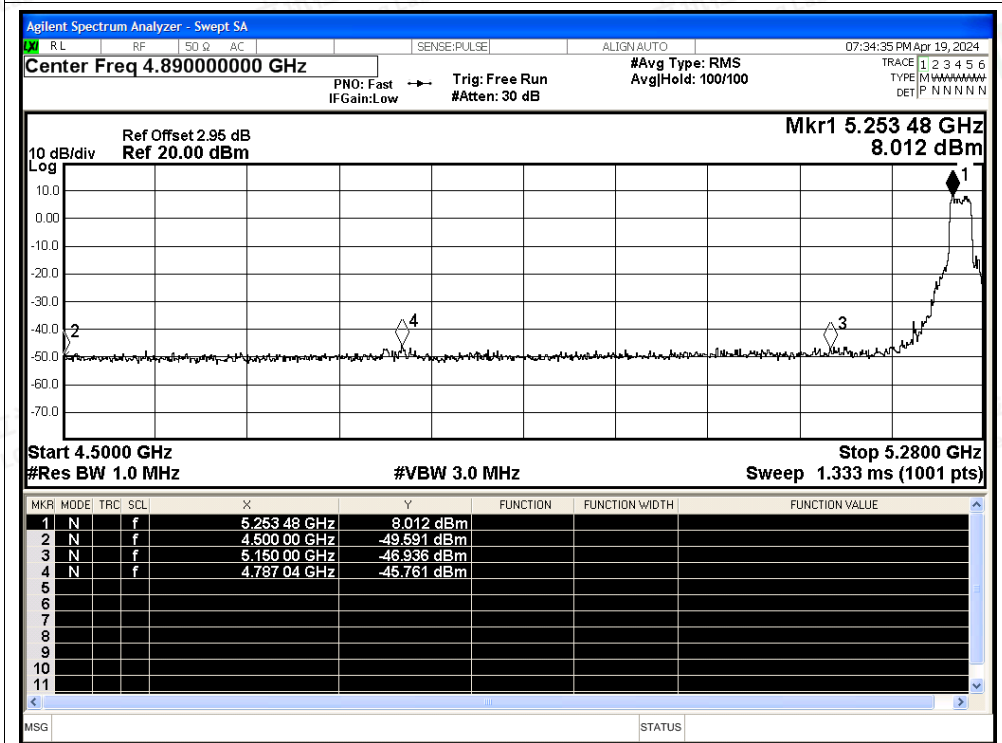
Restrict Band NVNT a 5260MHz Ant1 Average



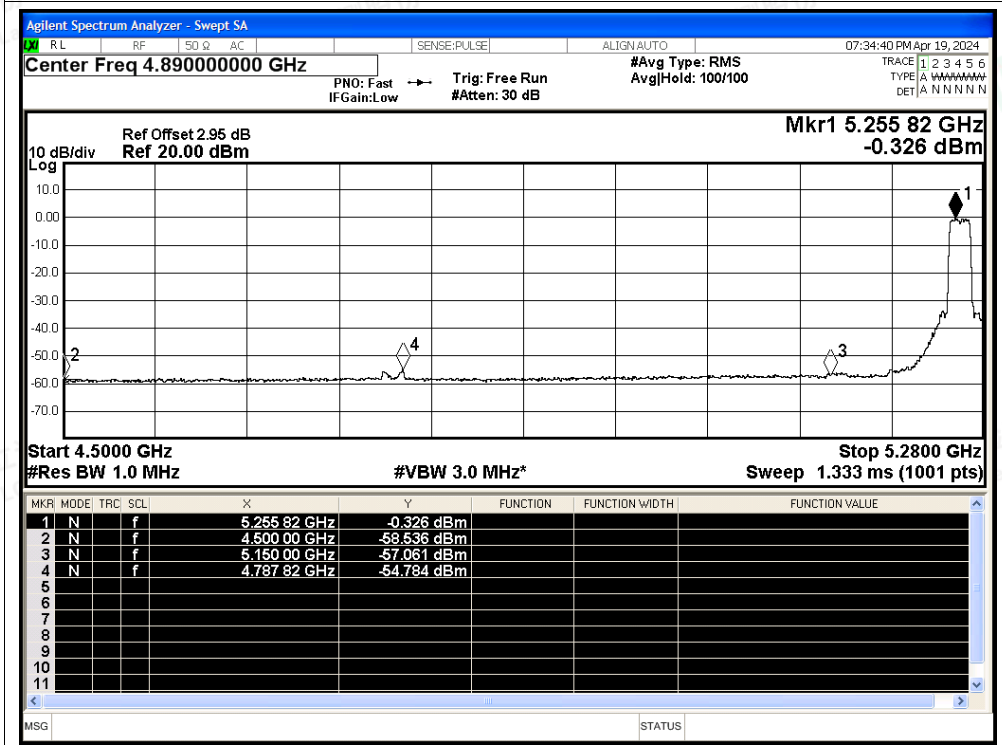




Restrict Band NVNT n20 5260MHz Peak

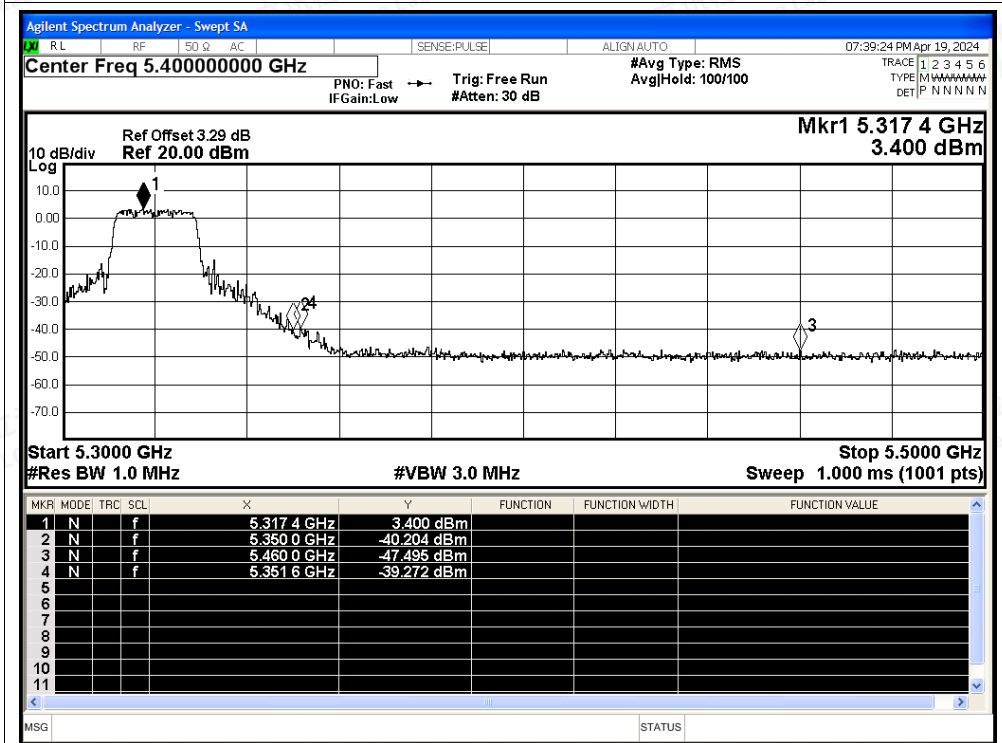


Restrict Band NVNT n20 5260MHz Average

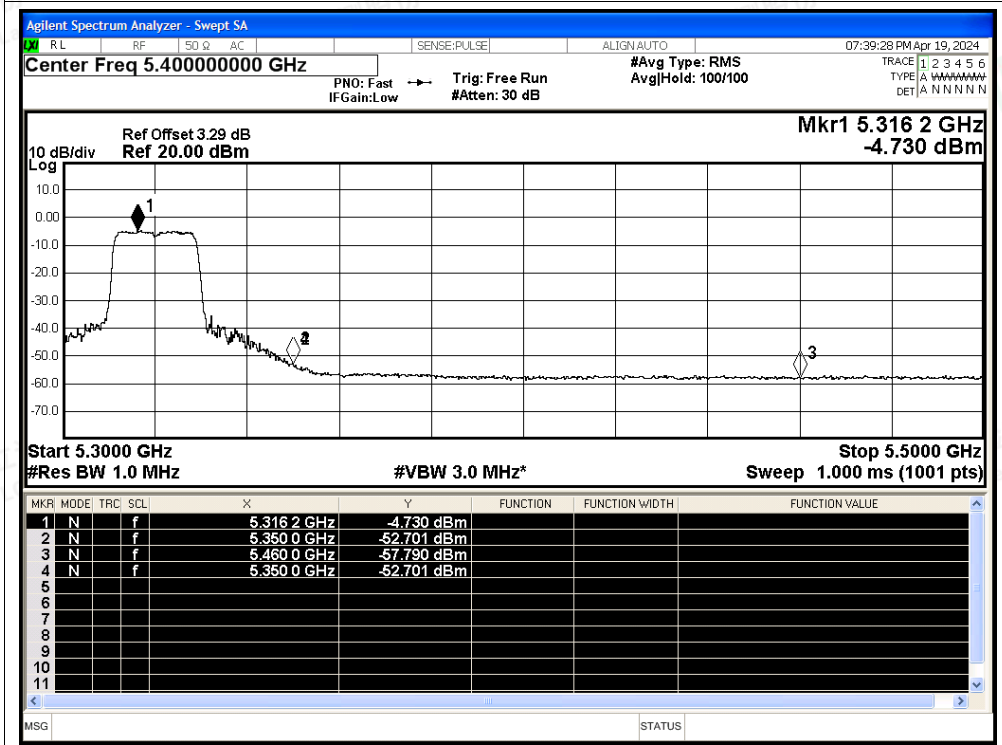




Restrict Band NVNT n20 5320MHz Peak

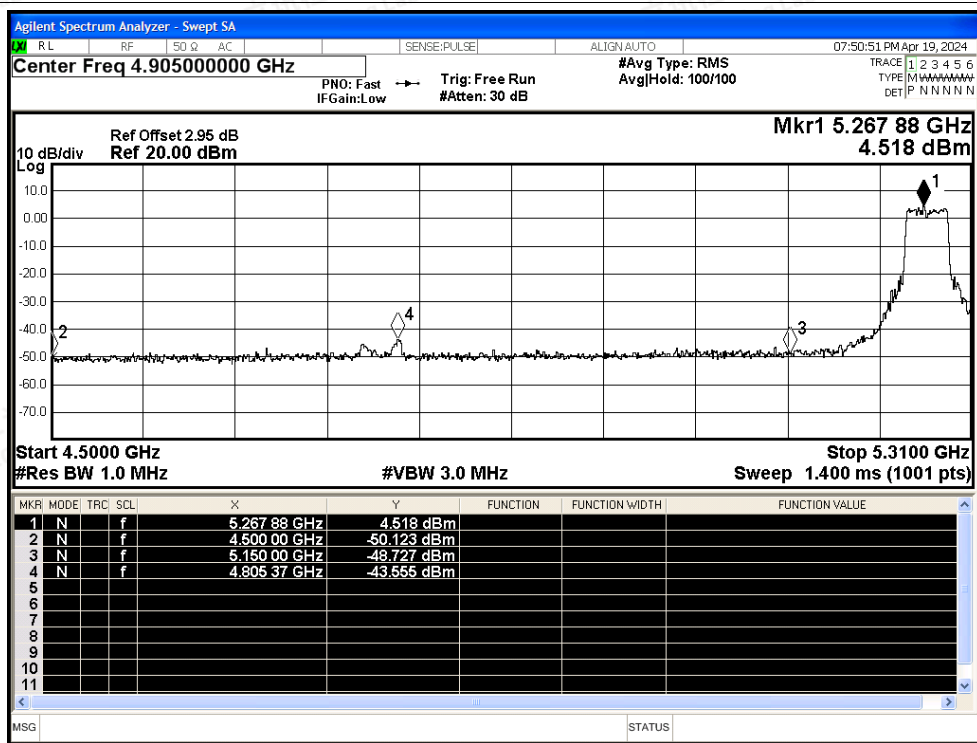


Restrict Band NVNT n20 5320MHz Average

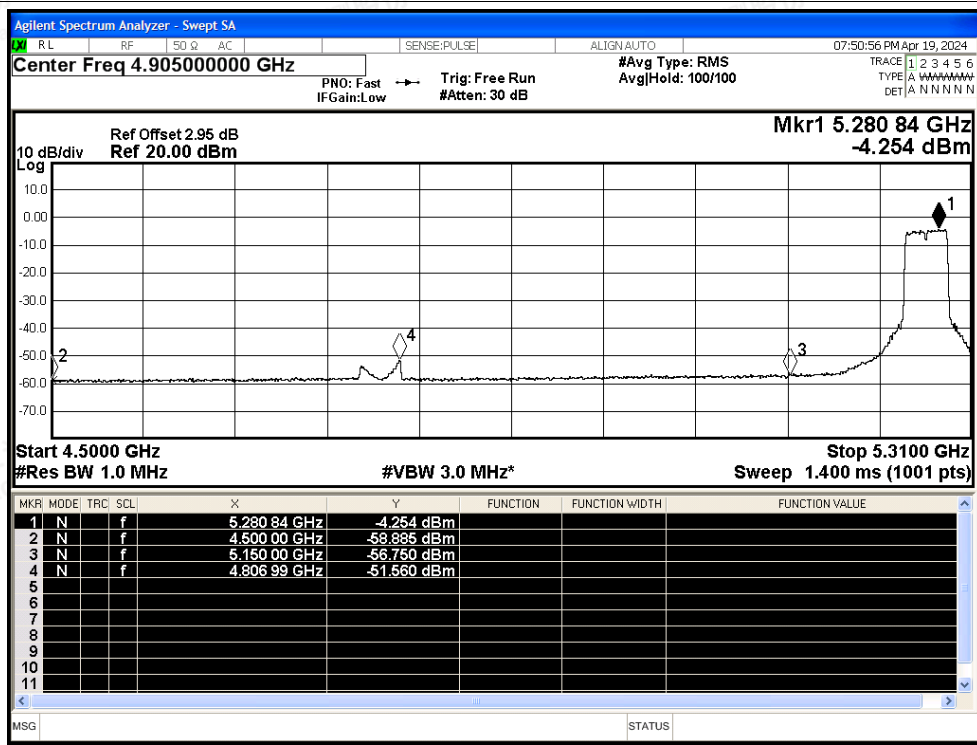




Restrict Band NVNT n40 5270MHz Peak

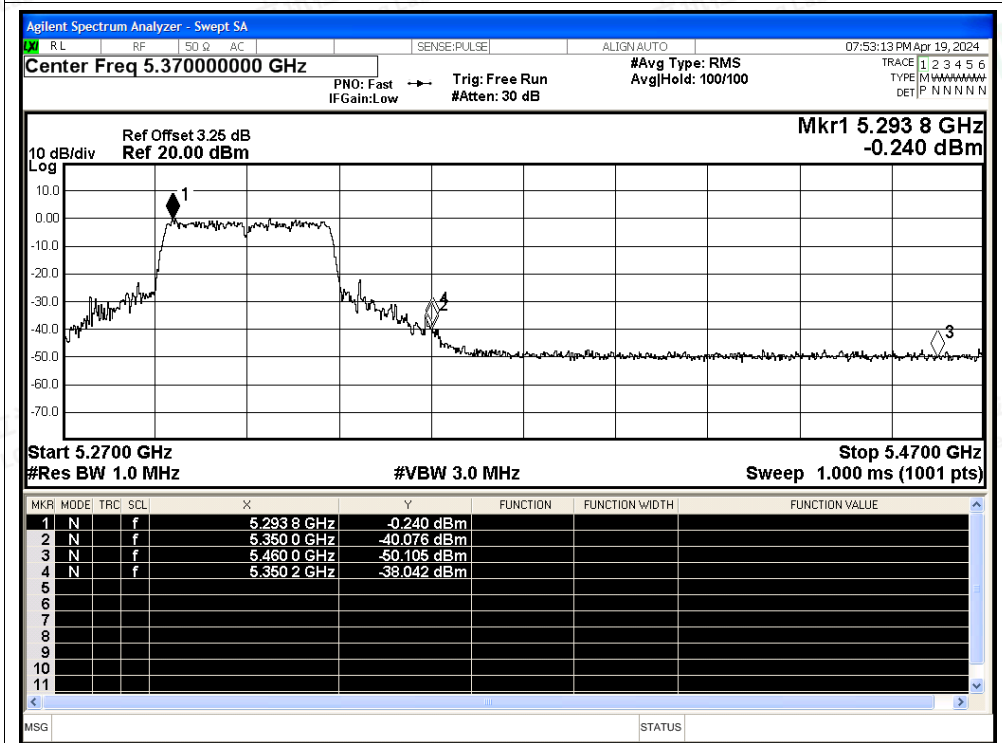


Restrict Band NVNT n40 5270MHz Average

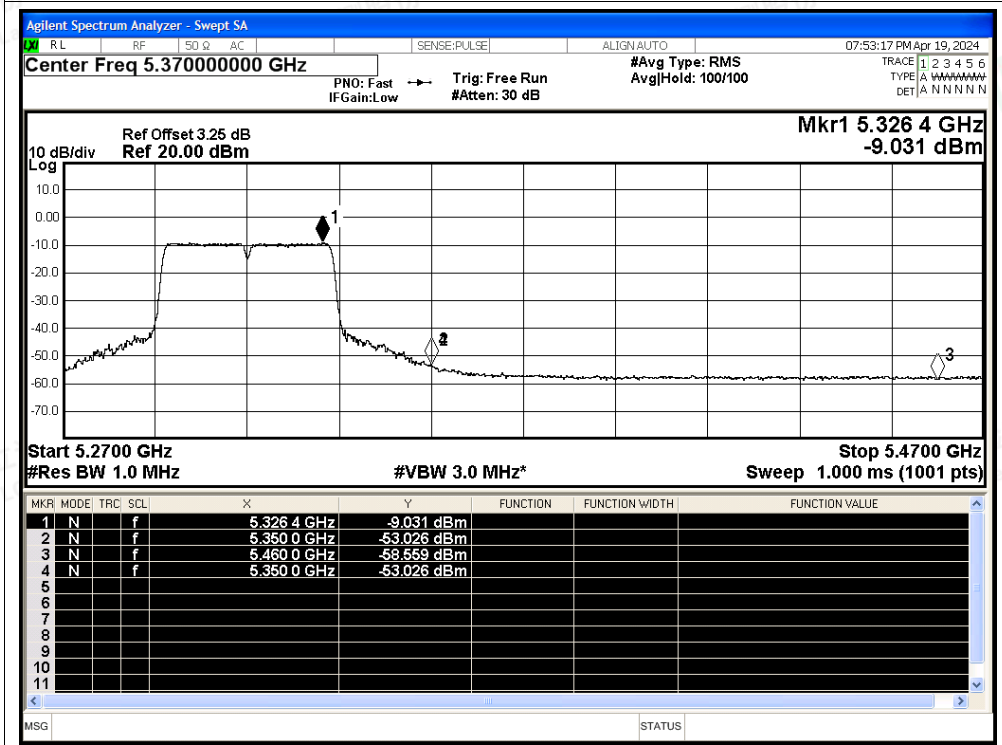




Restrict Band NVNT n40 5310MHz Peak

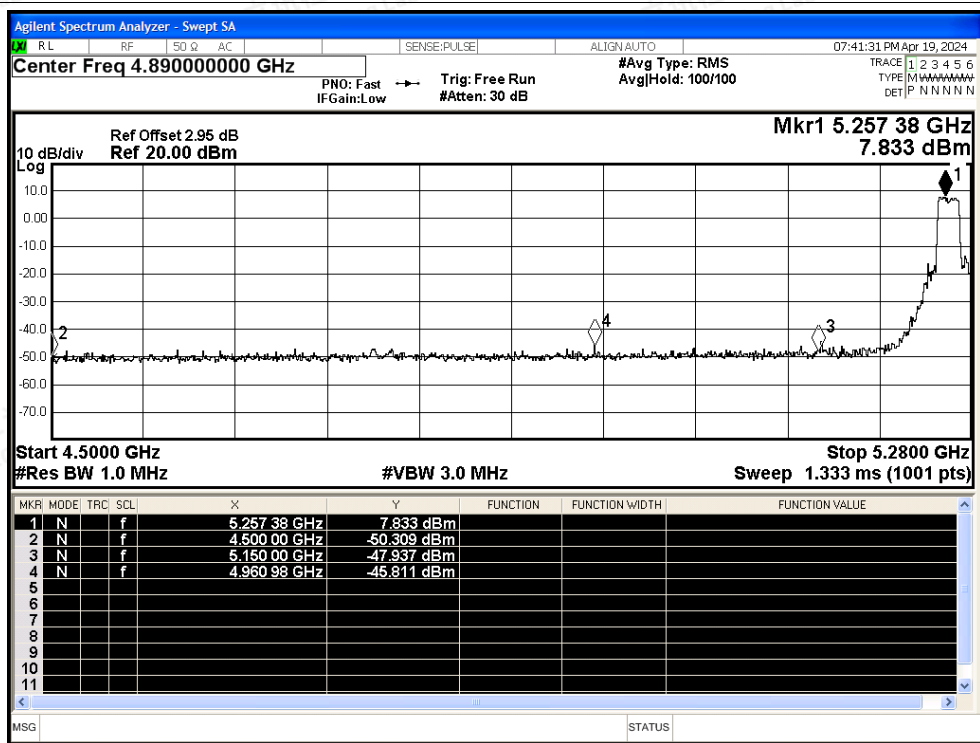


Restrict Band NVNT n40 5310MHz Average

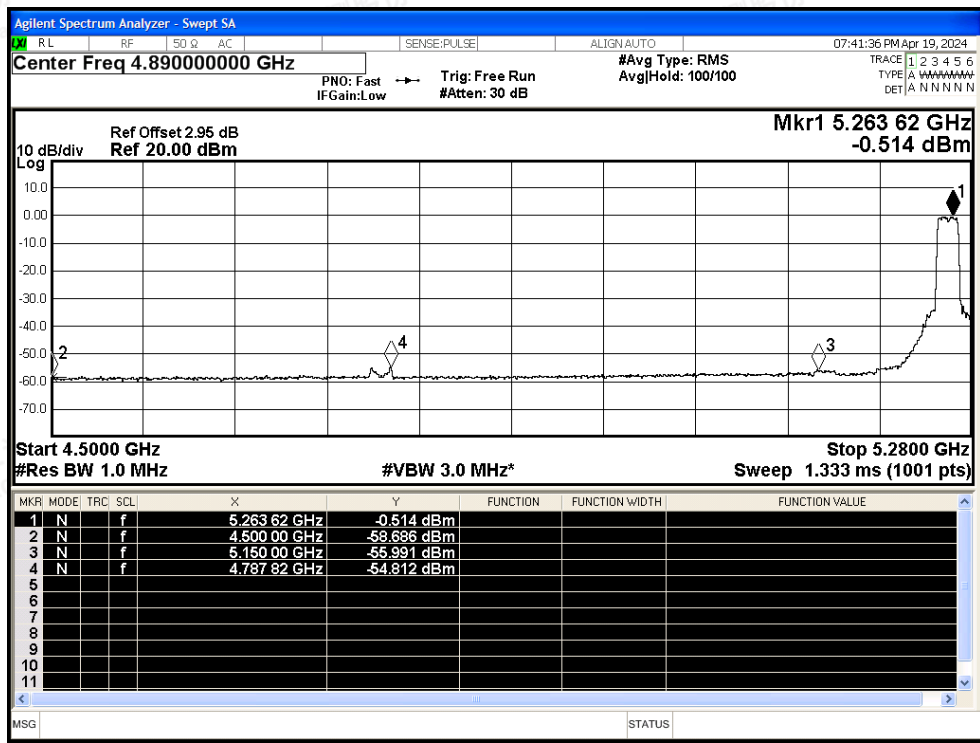




Restrict Band NVNT ac20 5260MHz Peak

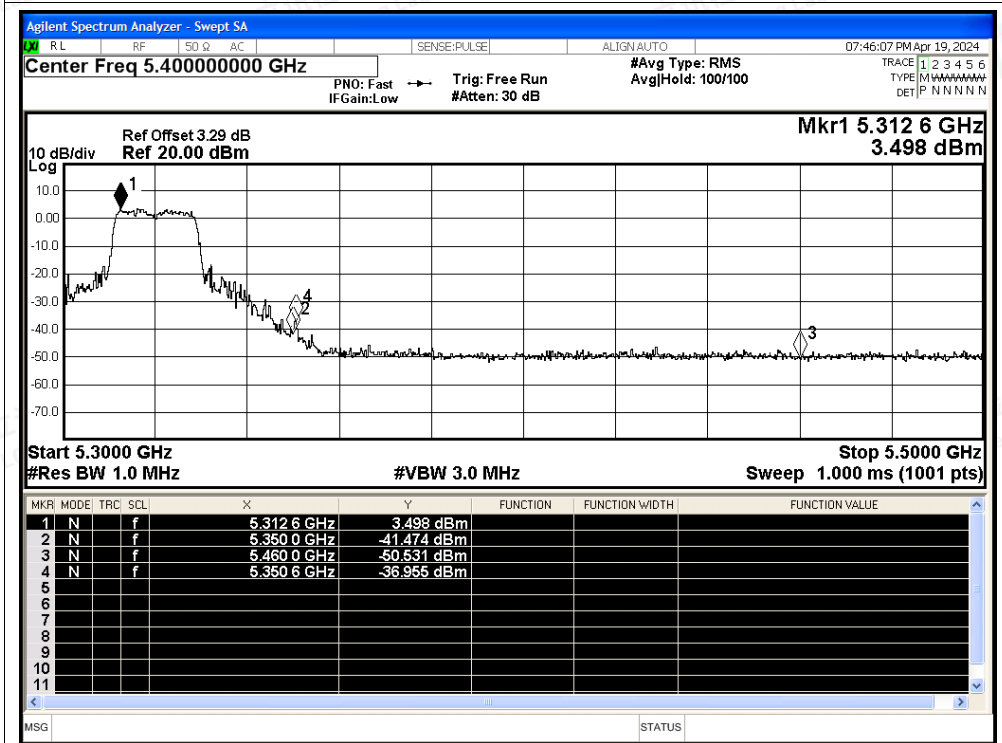


Restrict Band NVNT ac20 5260MHz Average

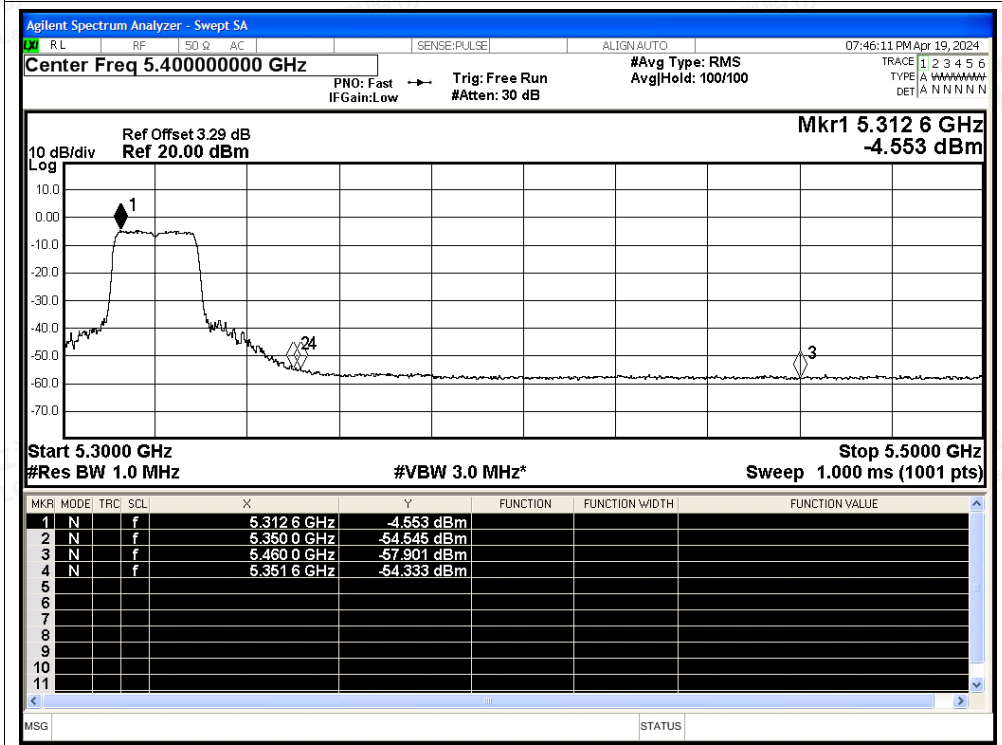




Restrict Band NVNT ac20 5320MHz Peak

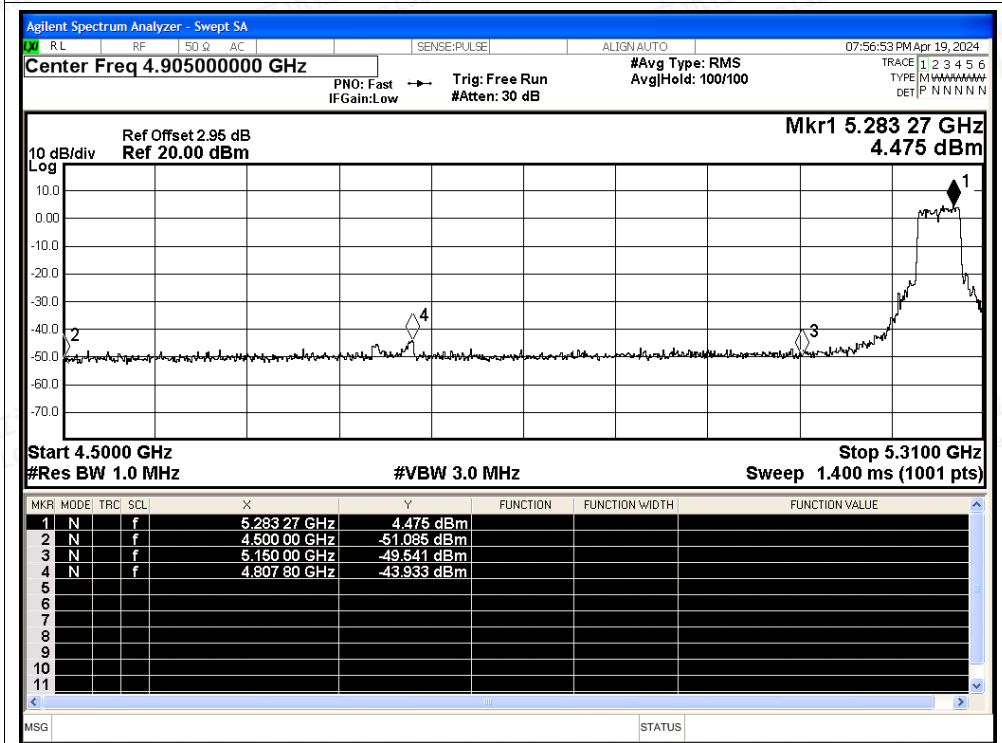


Restrict Band NVNT ac20 5320MHz Average

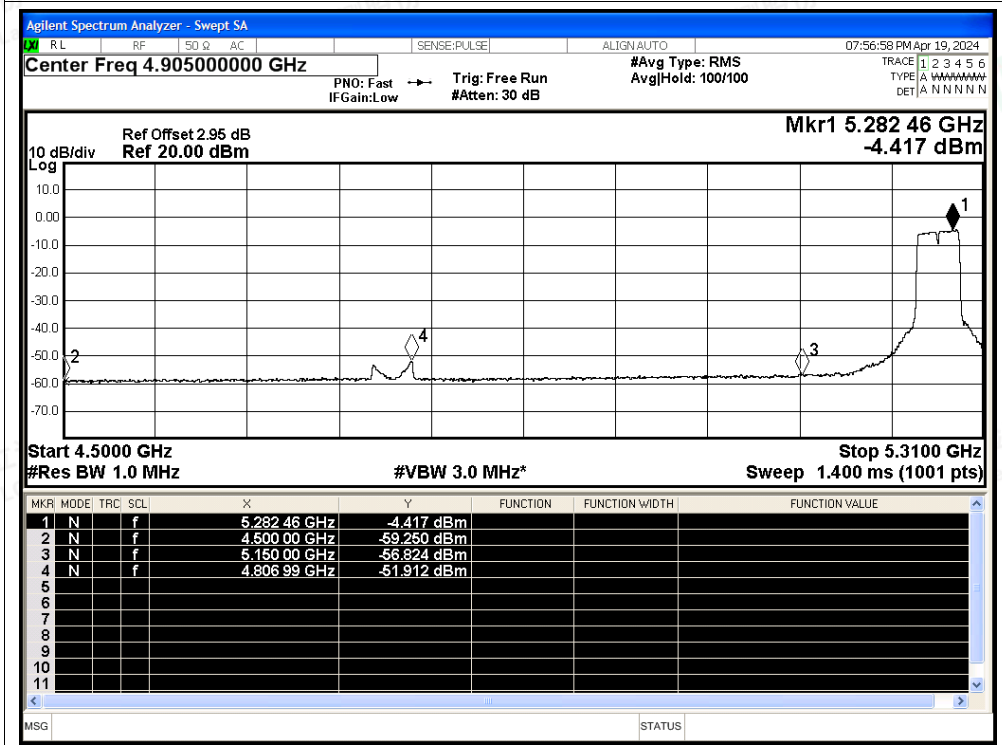




Restrict Band NVNT ac40 5270MHz Peak

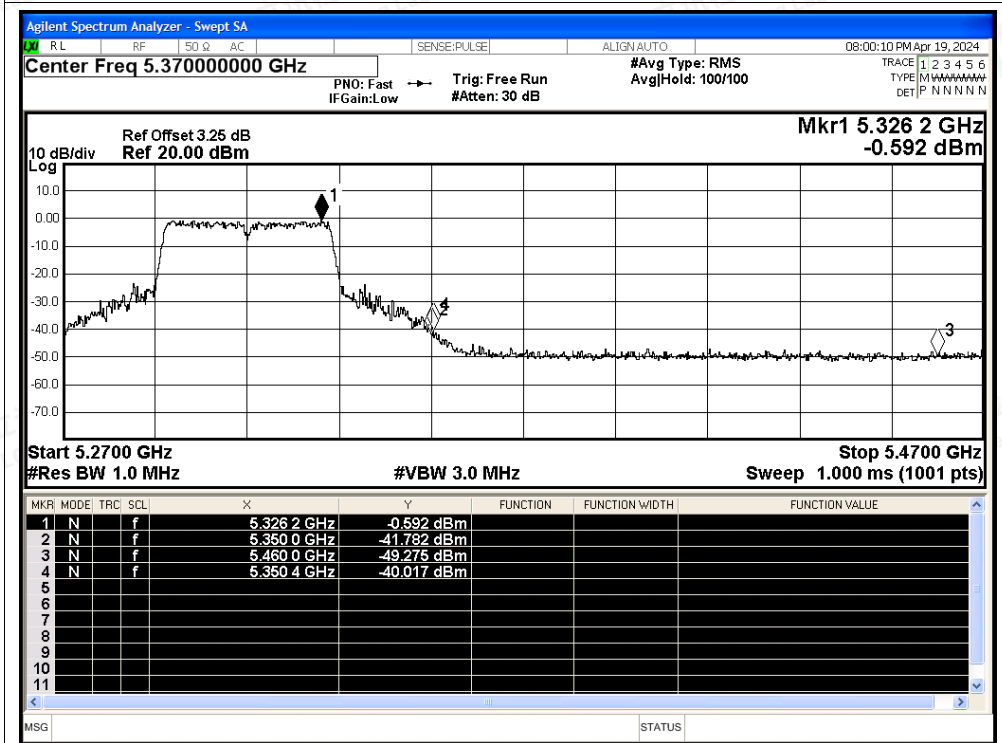


Restrict Band NVNT ac40 5270MHz Average

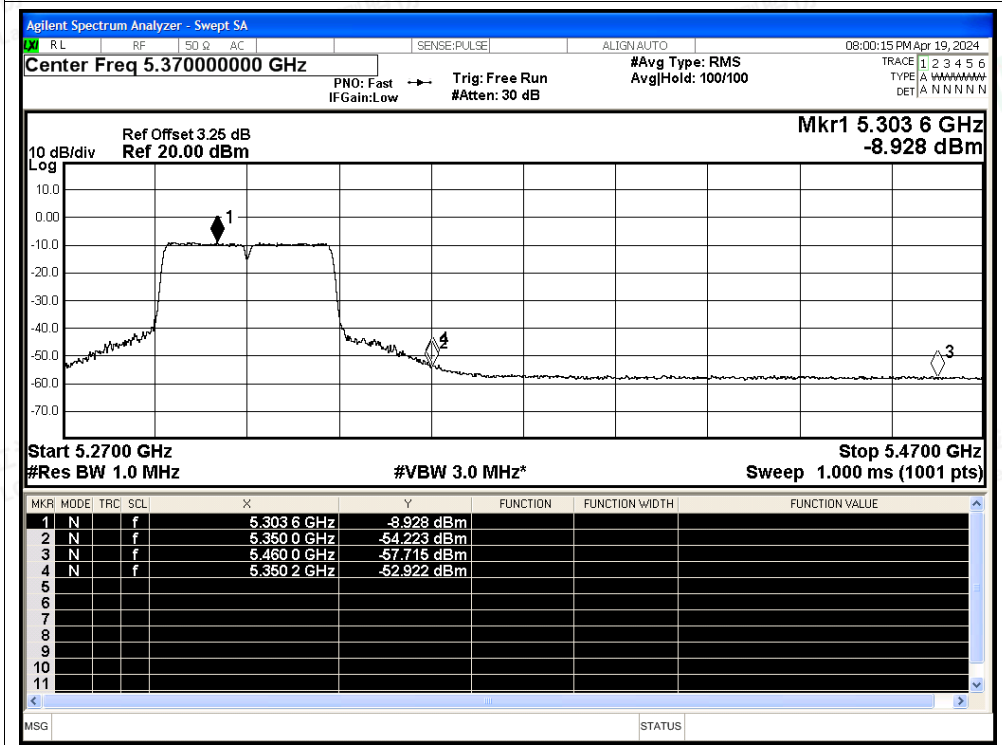




Restrict Band NVNT ac40 5310MHz Peak

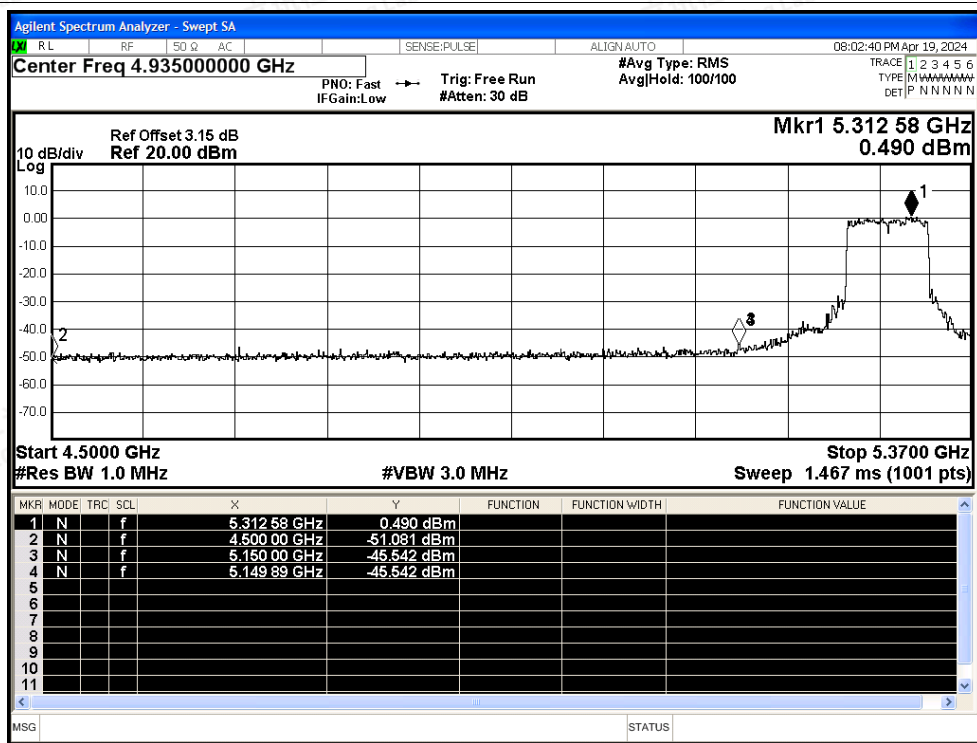


Restrict Band NVNT ac40 5310MHz Average

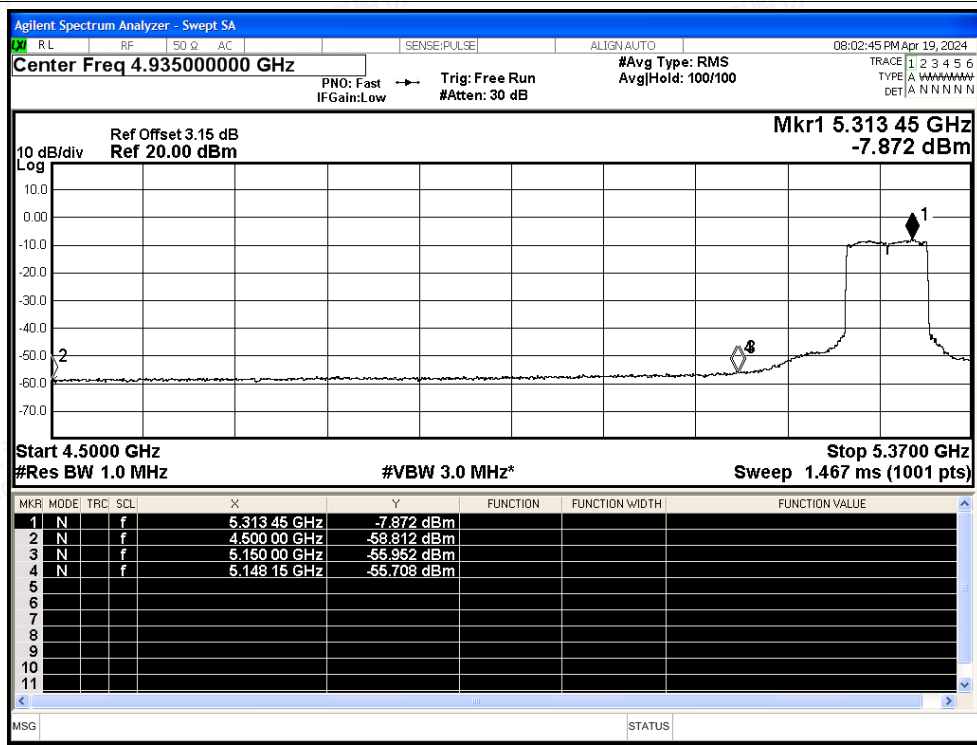




Restrict Band NVNT ac80 5290MHz Peak

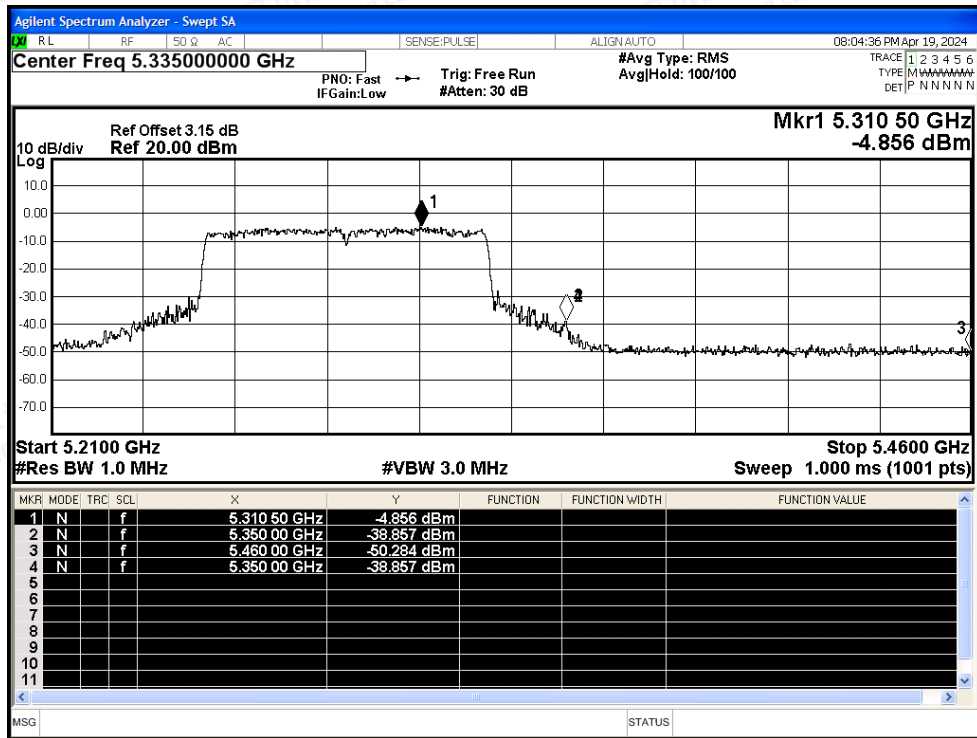


Restrict Band NVNT ac80 5290MHz Average

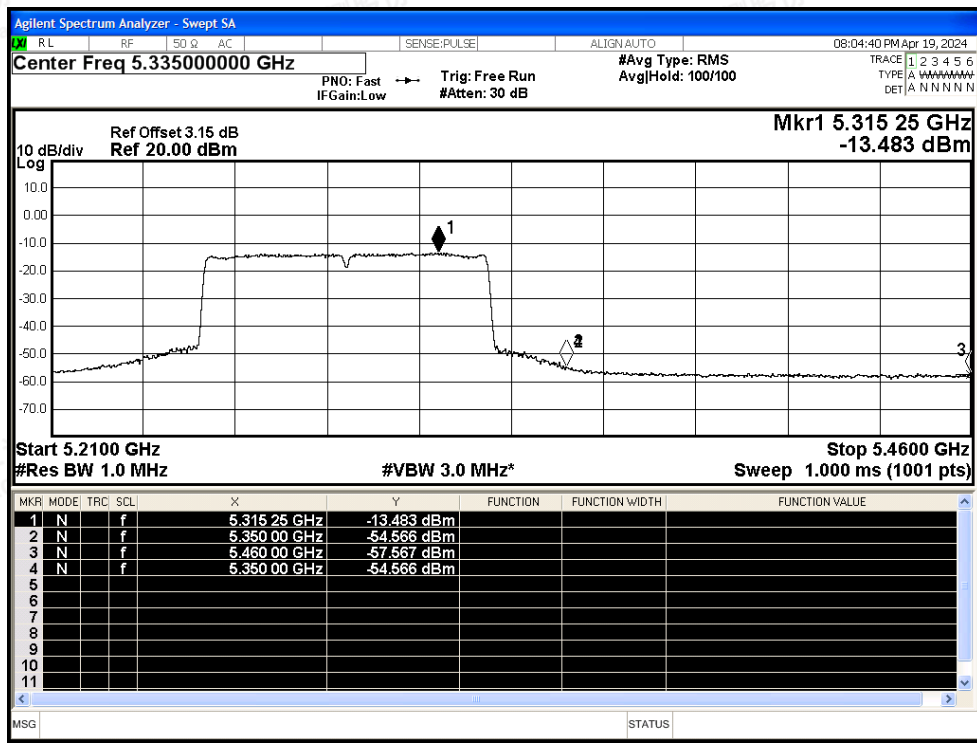




Restrict Band NVNT ac80 5290MHz Peak



Restrict Band NVNT ac80 5290MHz Average





E.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	ac20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac80	5290	Ant1	5290	0	0	25	Pass

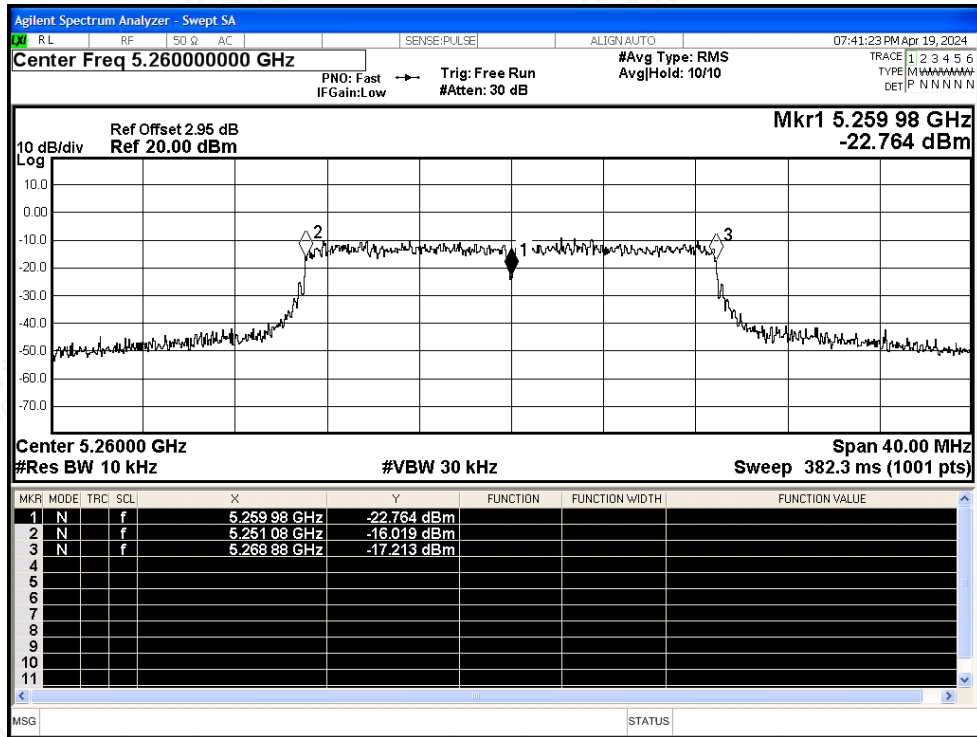


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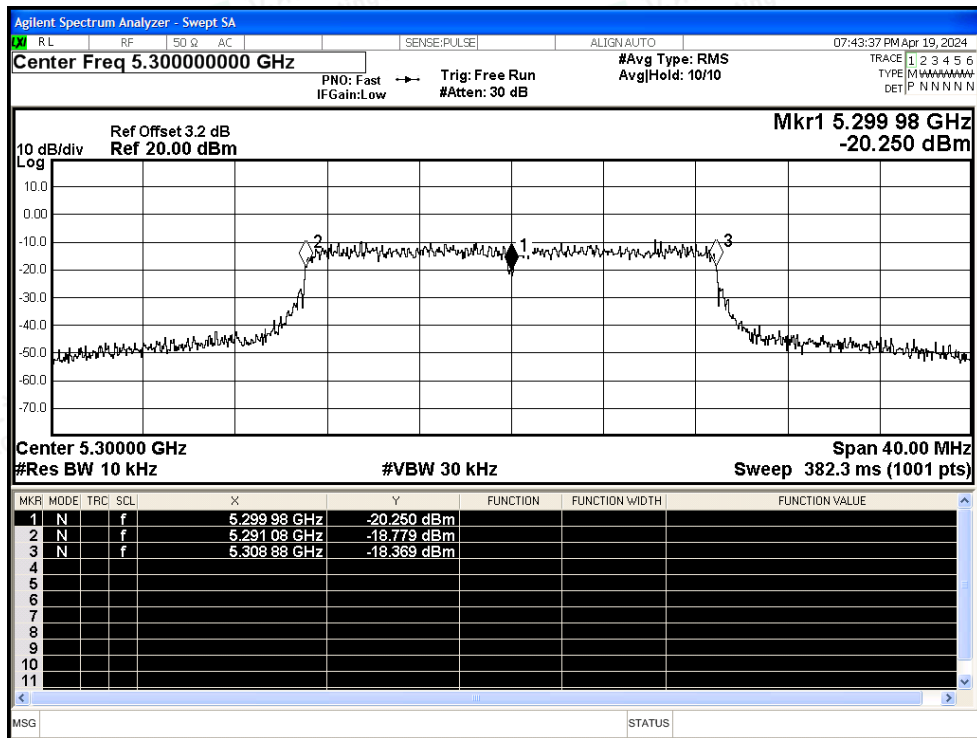


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant1

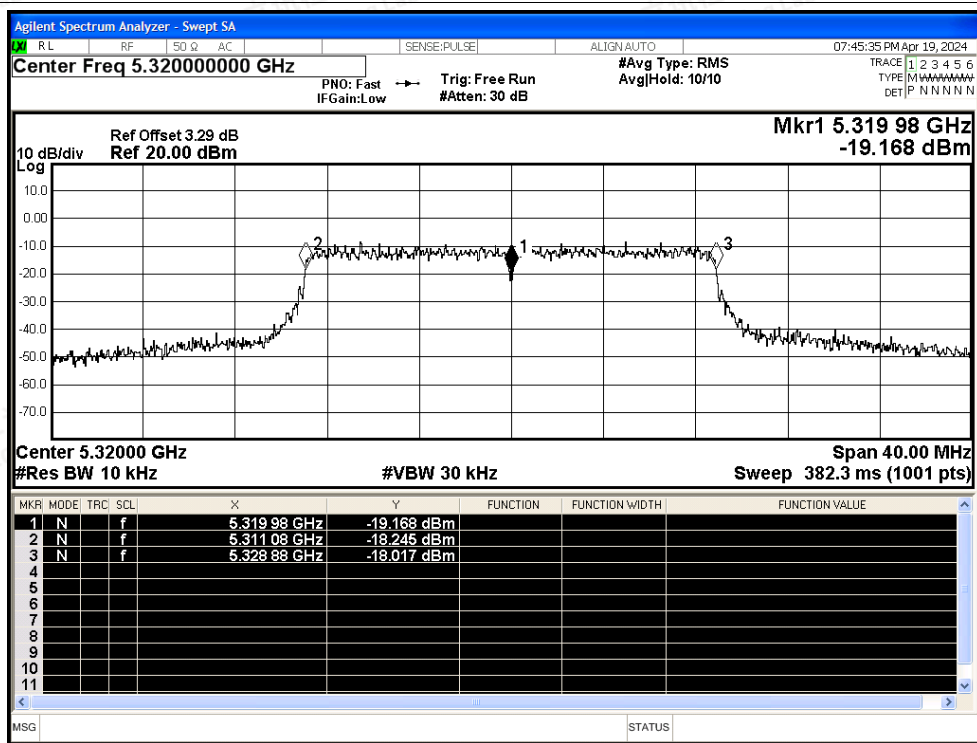


Freq. Stability NVNT ac20 5300MHz Ant1

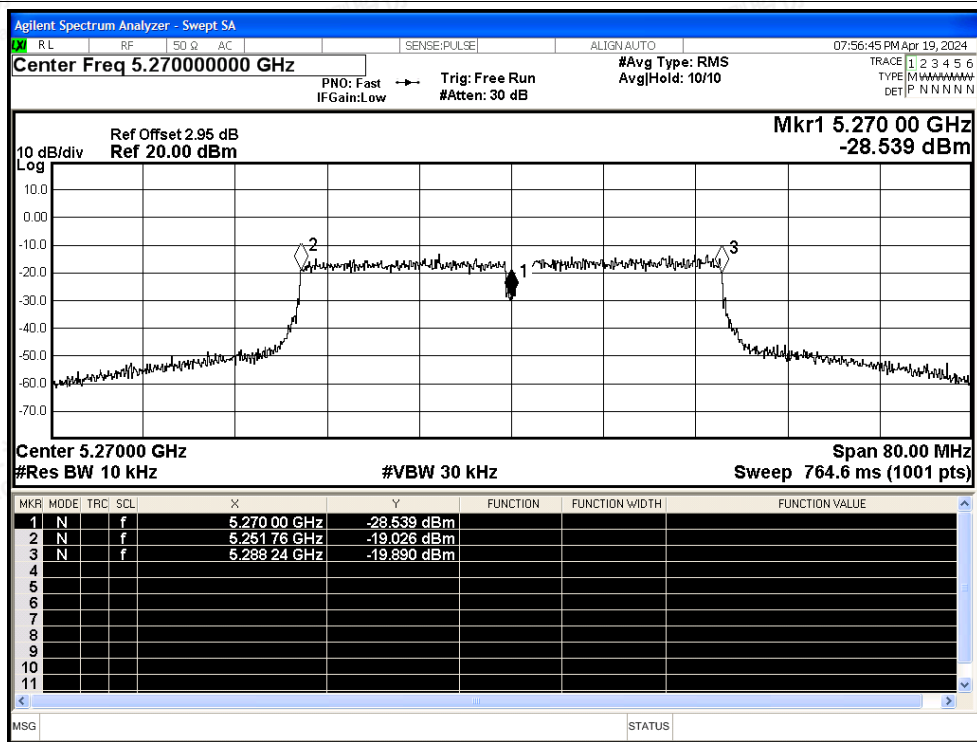




Freq. Stability NVNT ac20 5320MHz Ant1

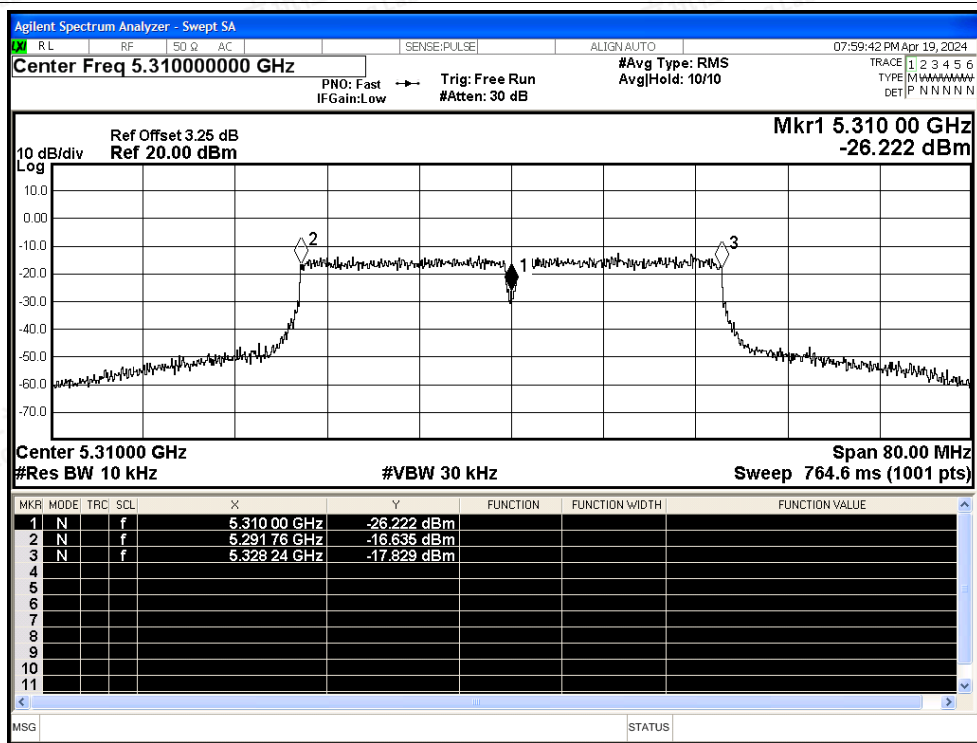


Freq. Stability NVNT ac40 5270MHz Ant1

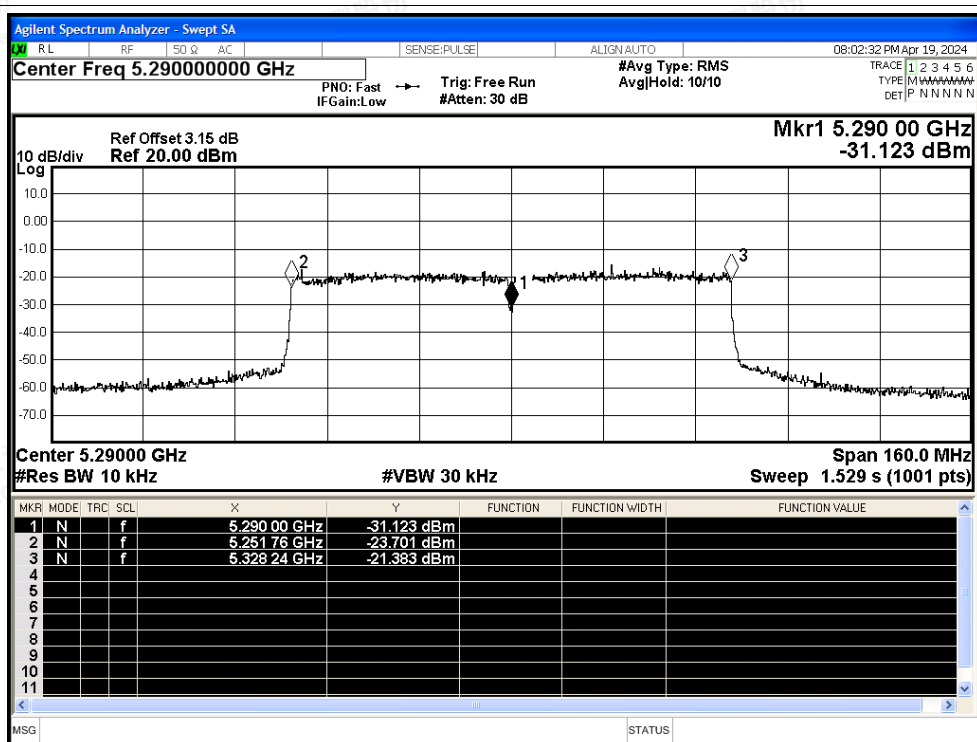




Freq. Stability NVNT ac40 5310MHz Ant1



Freq. Stability NVNT ac80 5290MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant2	5259.98	-20000	-3.8	25	Pass
NVNT	ac20	5300	Ant2	5299.98	-20000	-3.77	25	Pass
NVNT	ac20	5320	Ant2	5319.96	-40000	-7.52	25	Pass
NVNT	ac40	5270	Ant2	5270	0	0	25	Pass
NVNT	ac40	5310	Ant2	5310	0	0	25	Pass
NVNT	ac80	5290	Ant2	5290	0	0	25	Pass

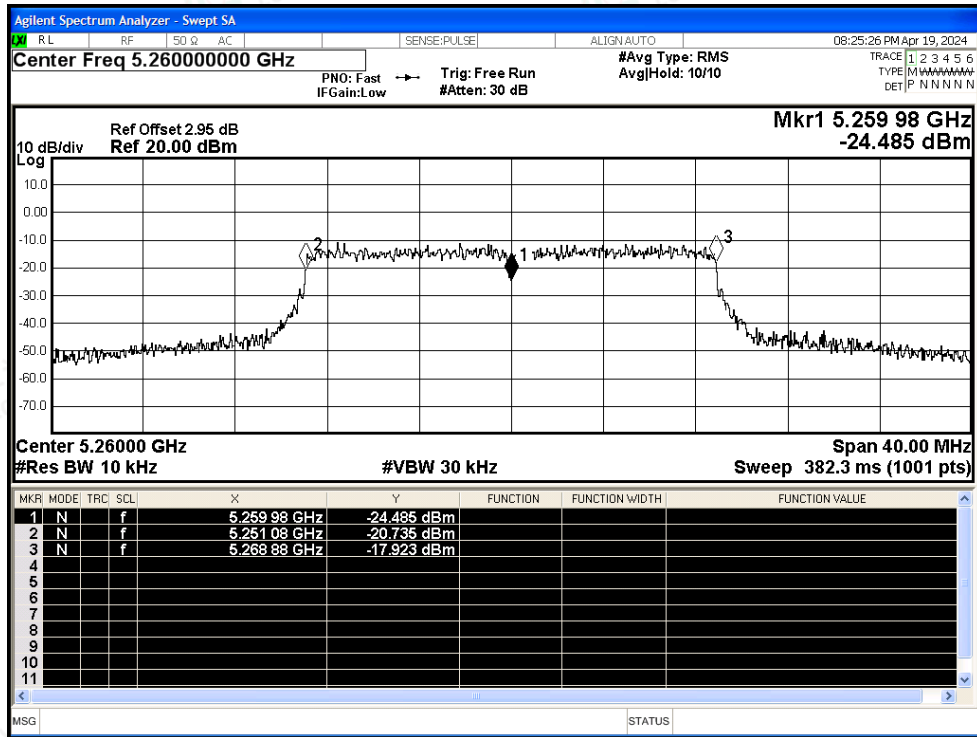


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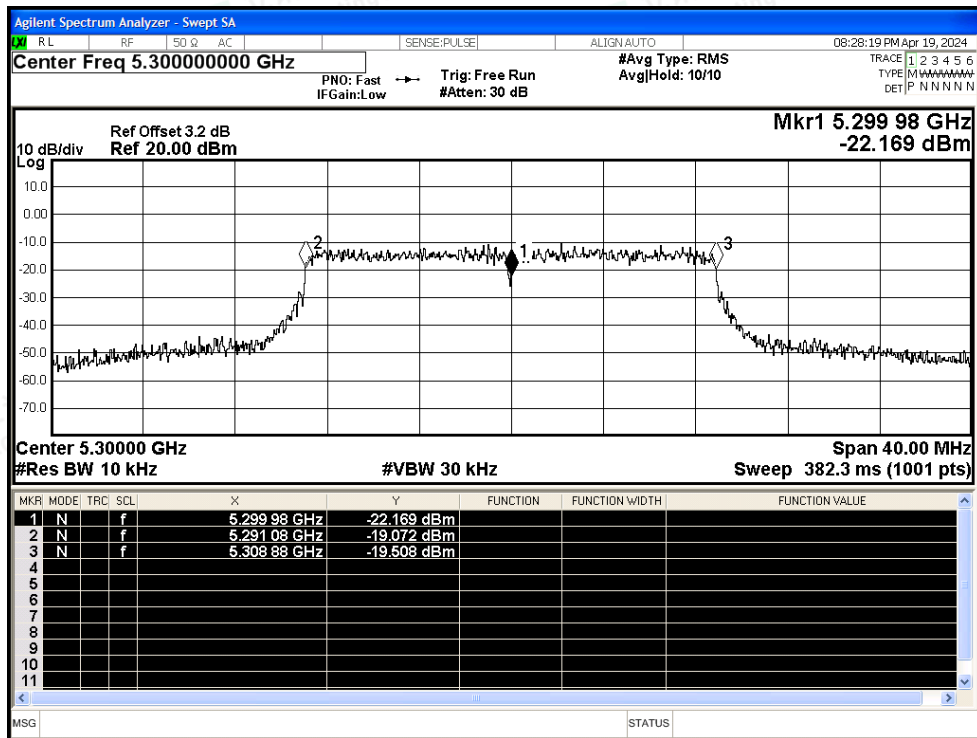


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant2

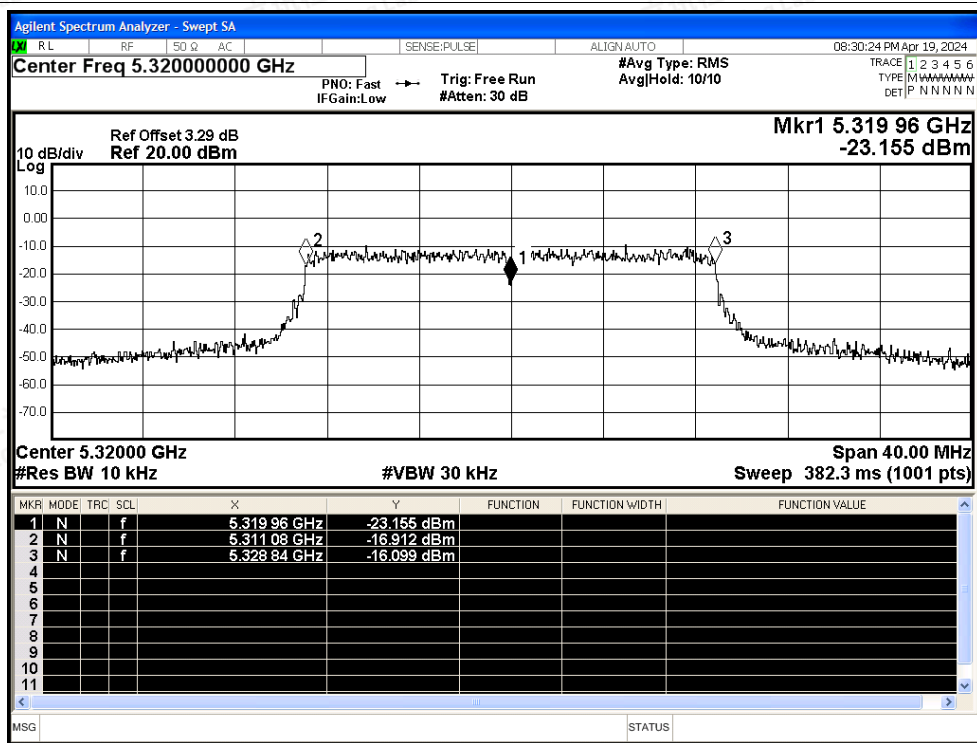


Freq. Stability NVNT ac20 5300MHz Ant2

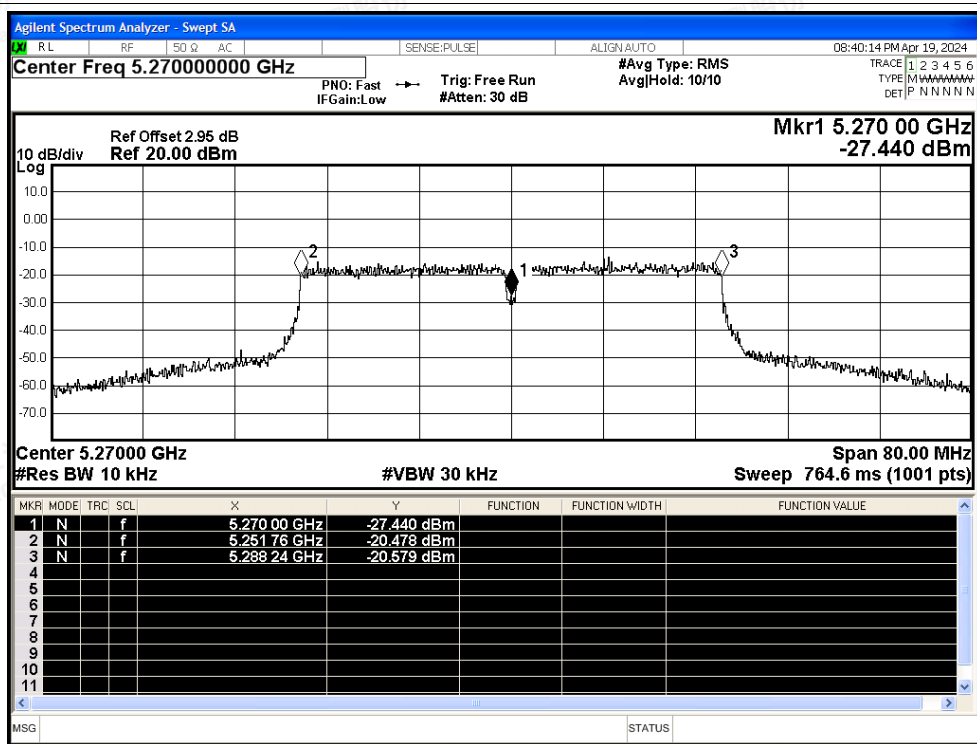




Freq. Stability NVNT ac20 5320MHz Ant2

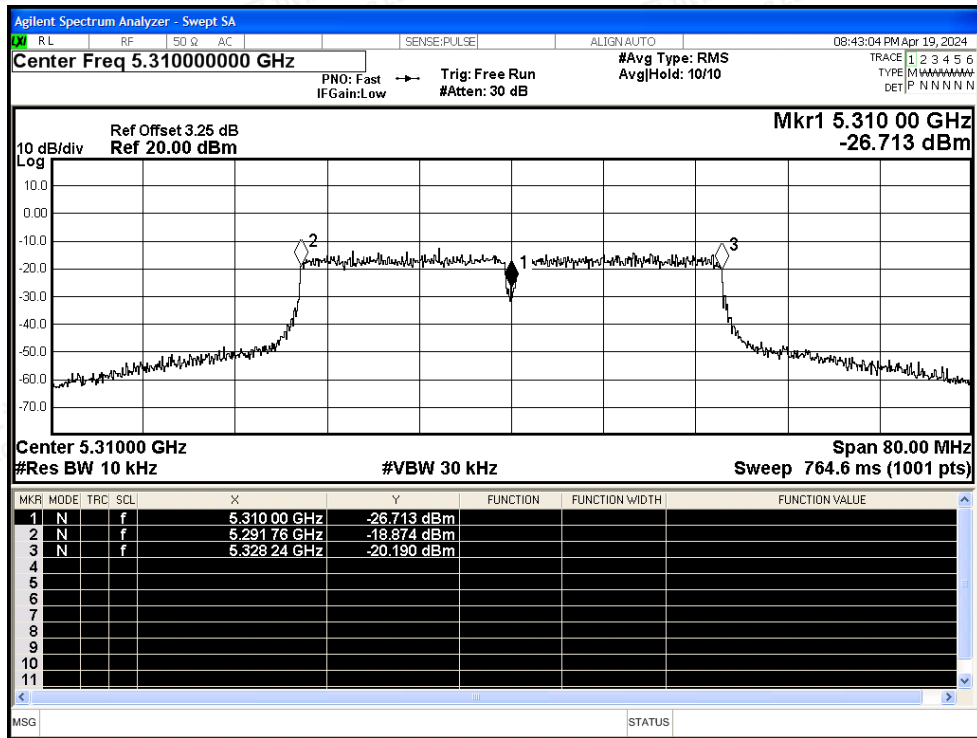


Freq. Stability NVNT ac40 5270MHz Ant2

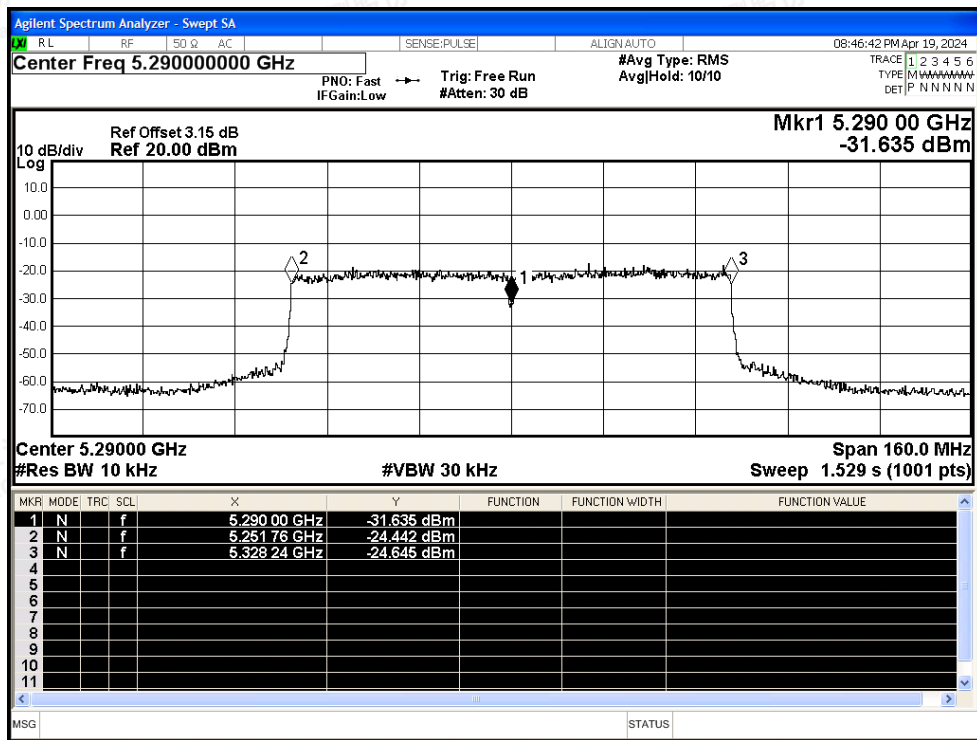




Freq. Stability NVNT ac40 5310MHz Ant2



Freq. Stability NVNT ac80 5290MHz Ant2





E.7 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	94.56	0.24	0.91
NVNT	a	5300	Ant1	94.56	0.24	0.91
NVNT	a	5320	Ant1	94.56	0.24	0.91
NVNT	n20	5260	Ant1	93.77	0.28	1.07
NVNT	n20	5300	Ant1	93.77	0.28	1.07
NVNT	n20	5320	Ant1	93.67	0.28	1.07
NVNT	n40	5270	Ant1	94.79	0.23	0.9
NVNT	n40	5310	Ant1	94.71	0.24	0.9
NVNT	ac20	5260	Ant1	93.72	0.28	1.06
NVNT	ac20	5300	Ant1	93.72	0.28	1.06
NVNT	ac20	5320	Ant1	93.72	0.28	1.06
NVNT	ac40	5270	Ant1	94.72	0.24	0.9
NVNT	ac40	5310	Ant1	94.72	0.24	0.9
NVNT	ac80	5290	Ant1	94.32	0.25	0.97

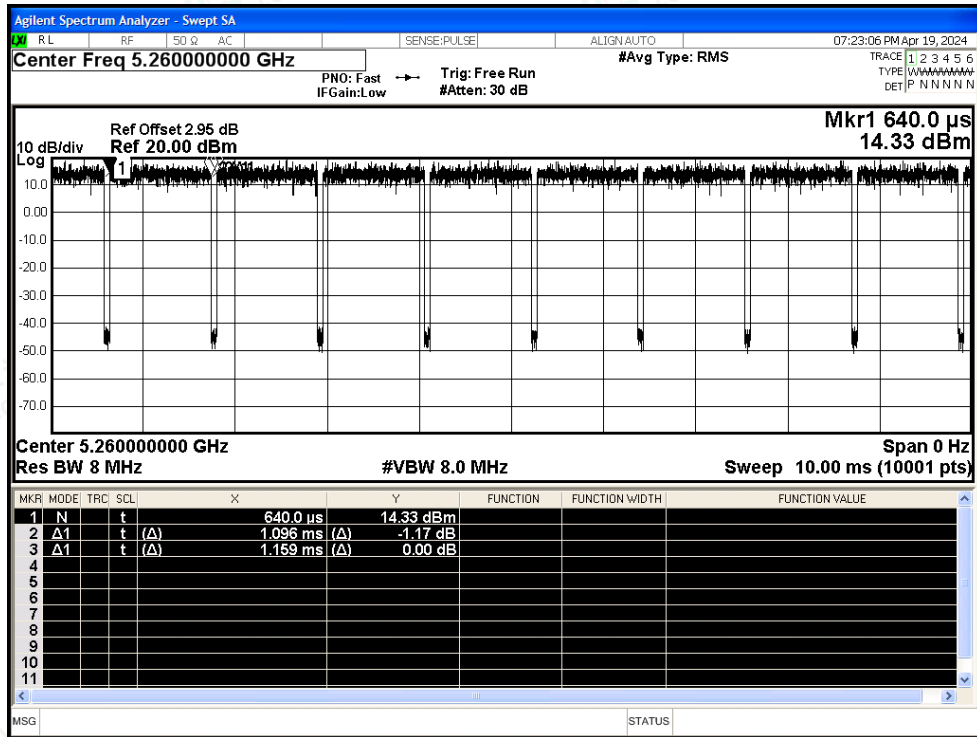


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 Scan code to check authenticity

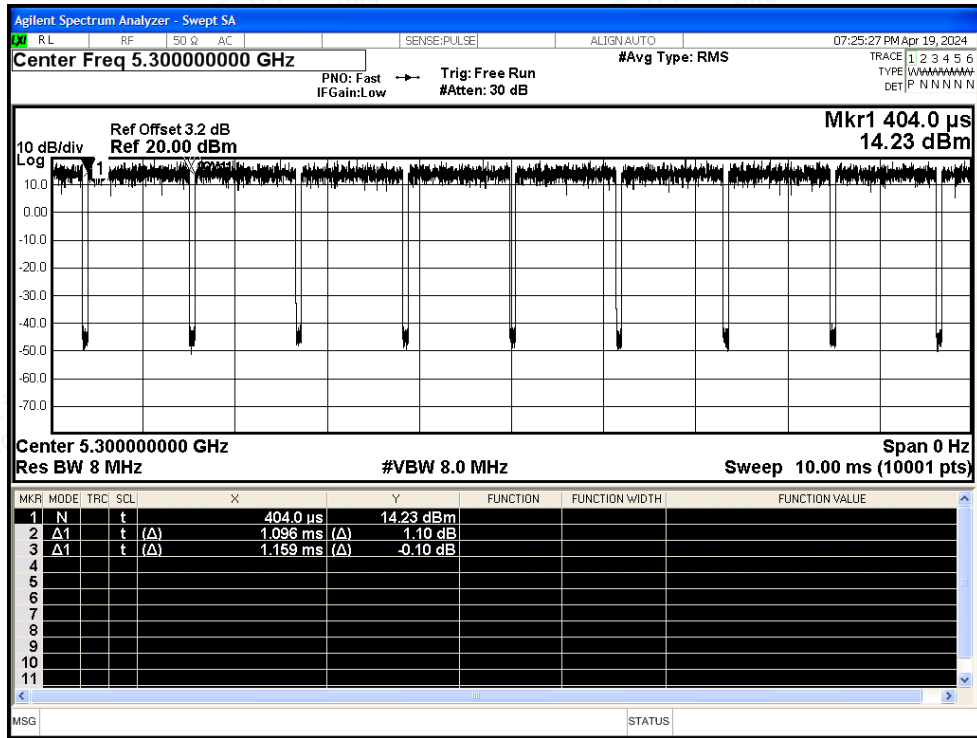


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1

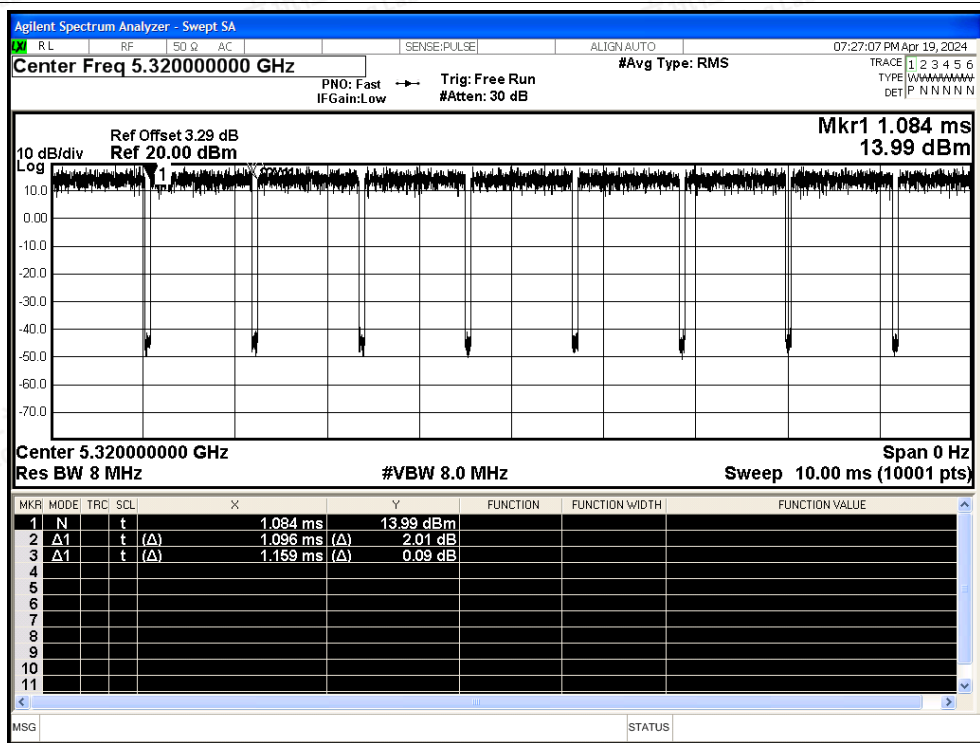


Duty Cycle NVNT a 5300MHz Ant1

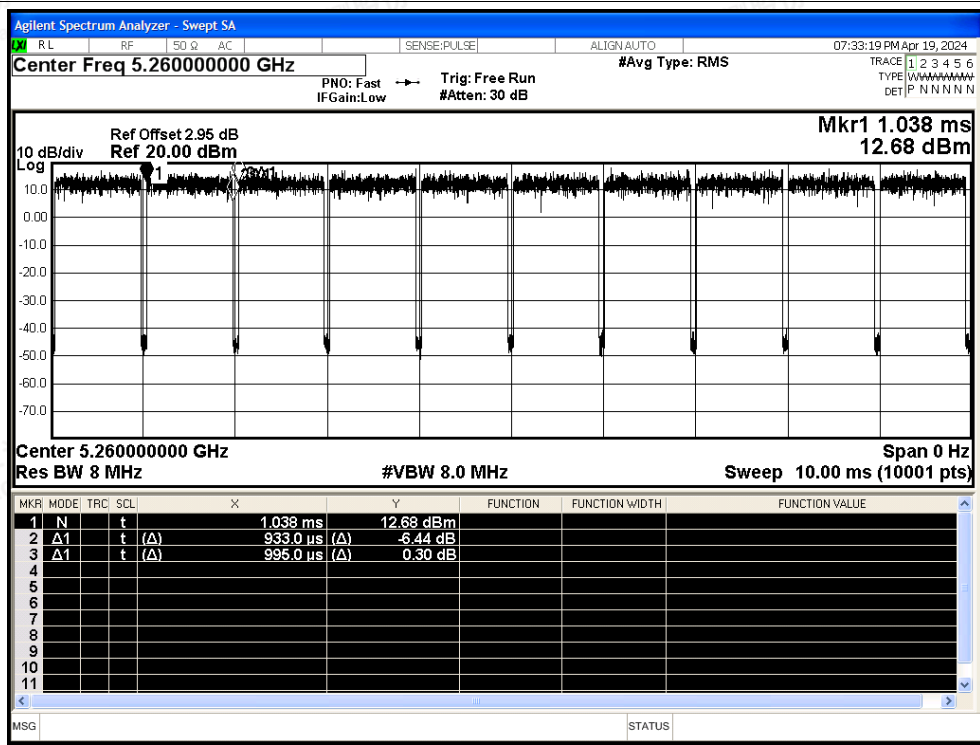




Duty Cycle NVNT a 5320MHz Ant1

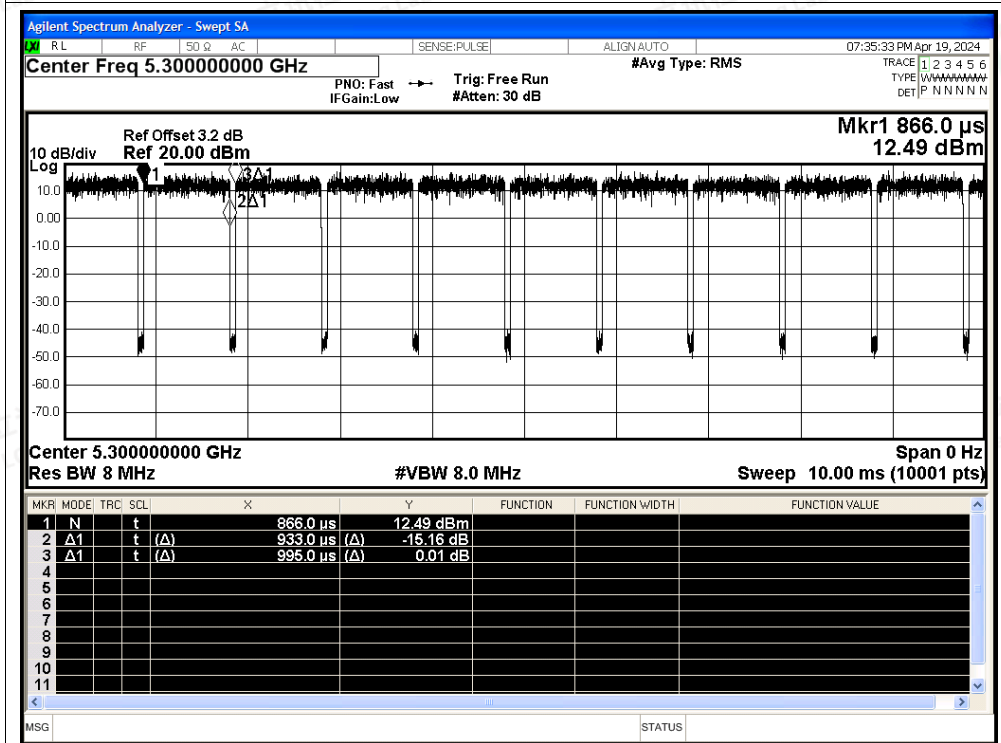


Duty Cycle NVNT n20 5260MHz Ant1

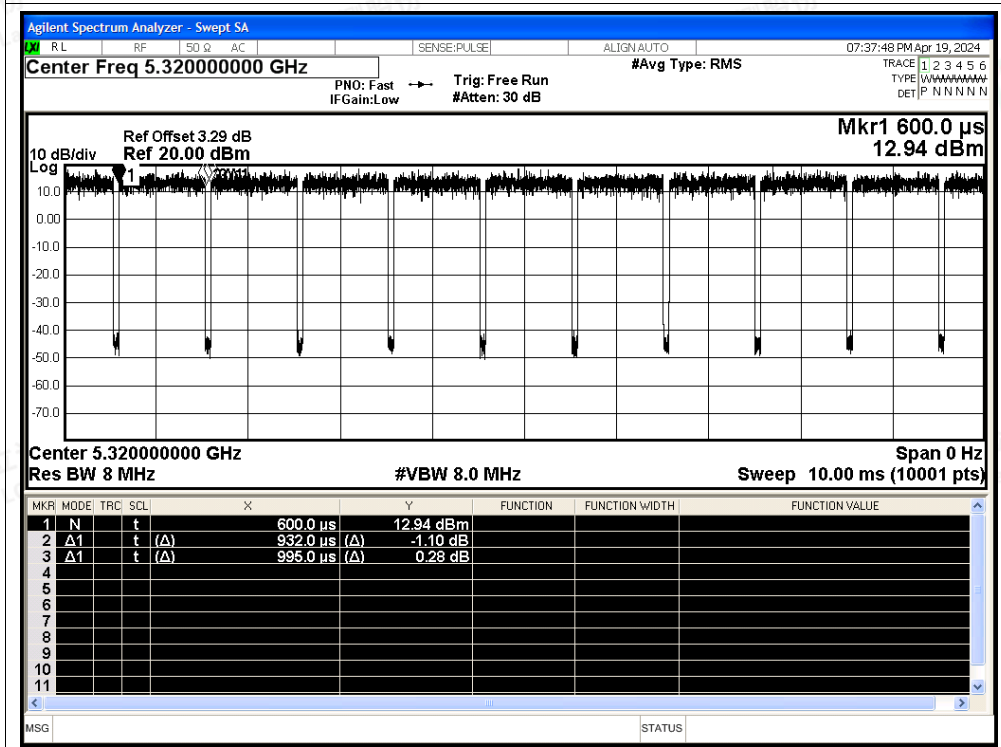




Duty Cycle NVNT n20 5300MHz Ant1

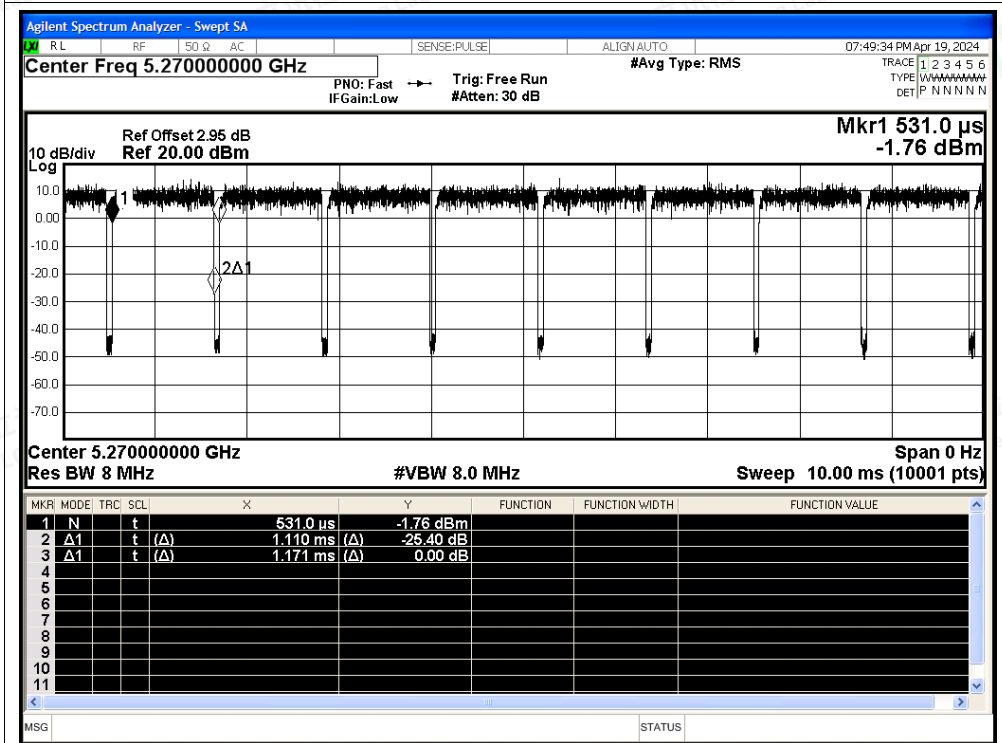


Duty Cycle NVNT n20 5320MHz Ant1

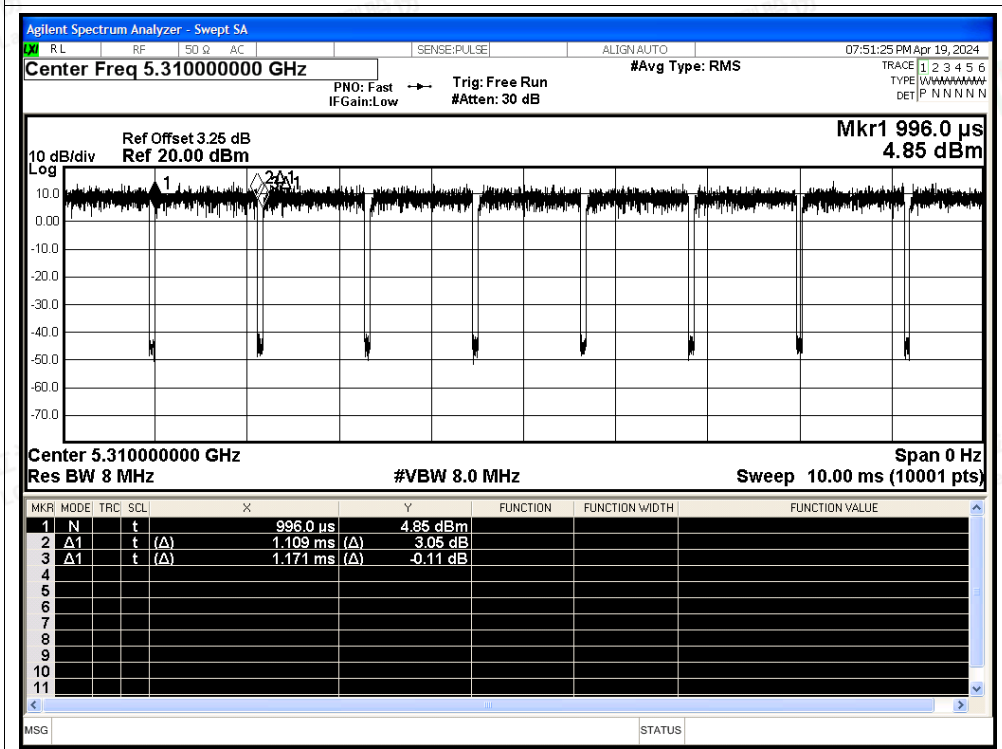




Duty Cycle NVNT n40 5270MHz Ant1

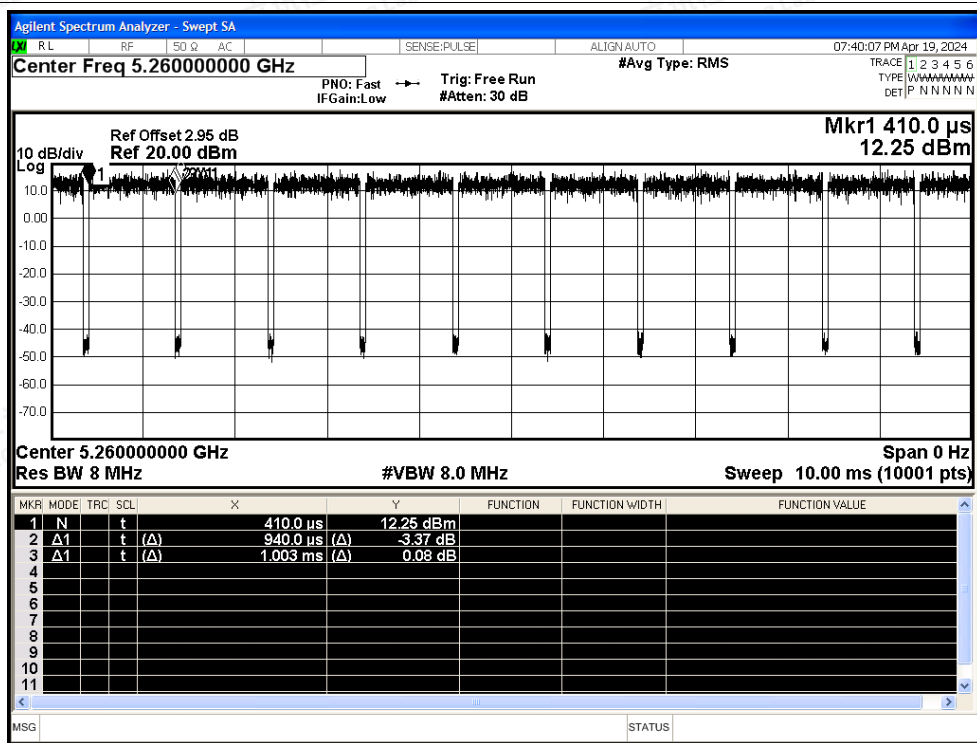


Duty Cycle NVNT n40 5310MHz Ant1

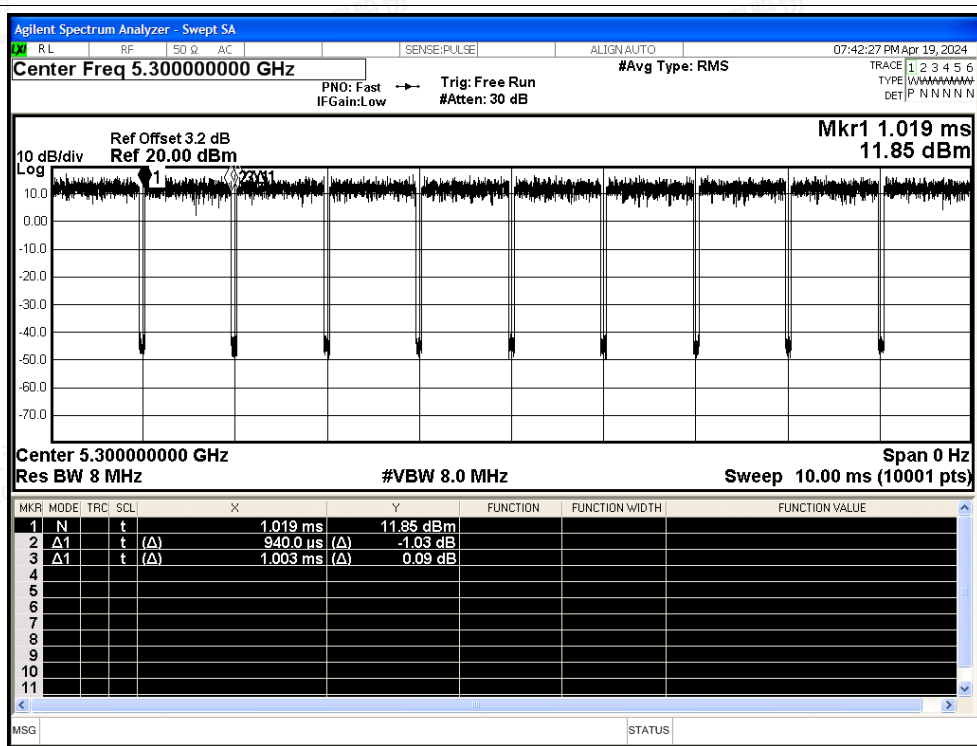




Duty Cycle NVNT ac20 5260MHz Ant1

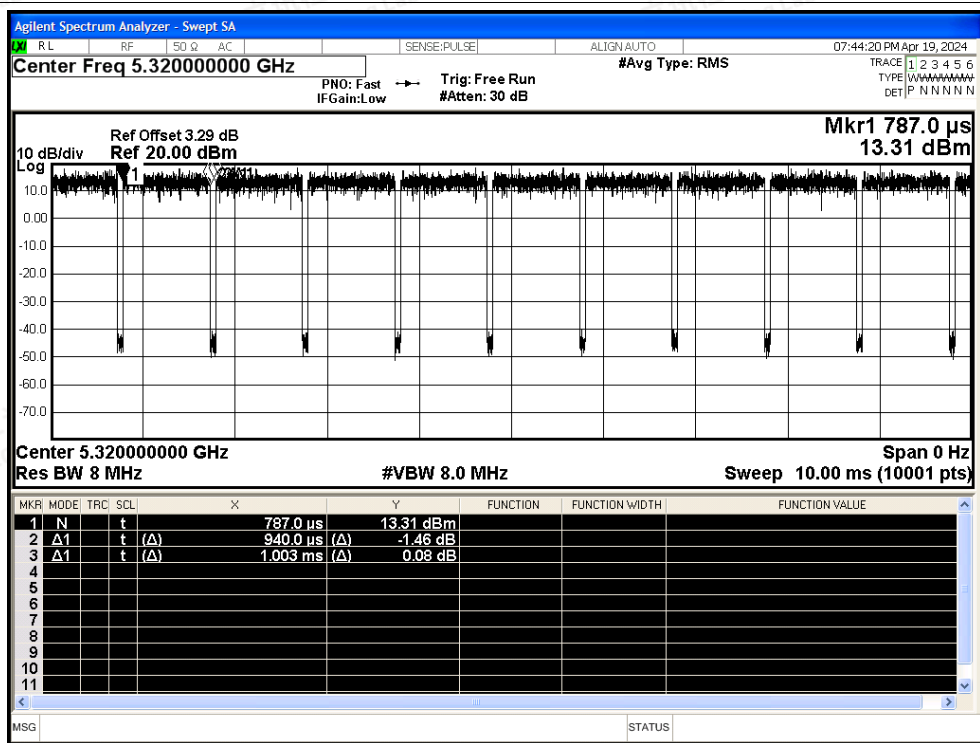


Duty Cycle NVNT ac20 5300MHz Ant1

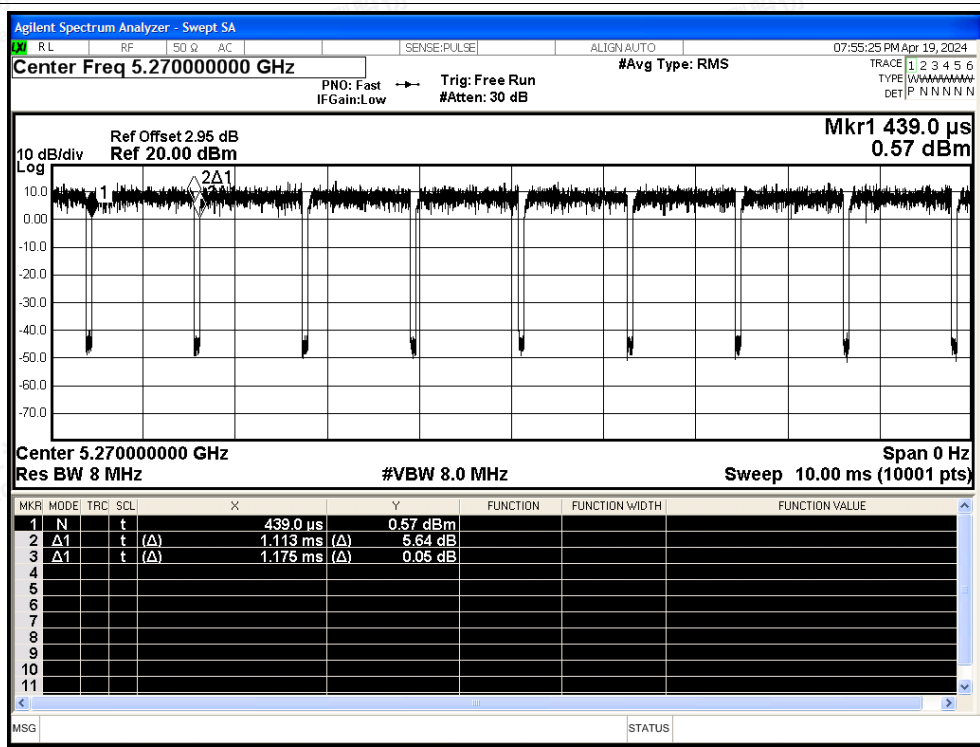




Duty Cycle NVNT ac20 5320MHz Ant1

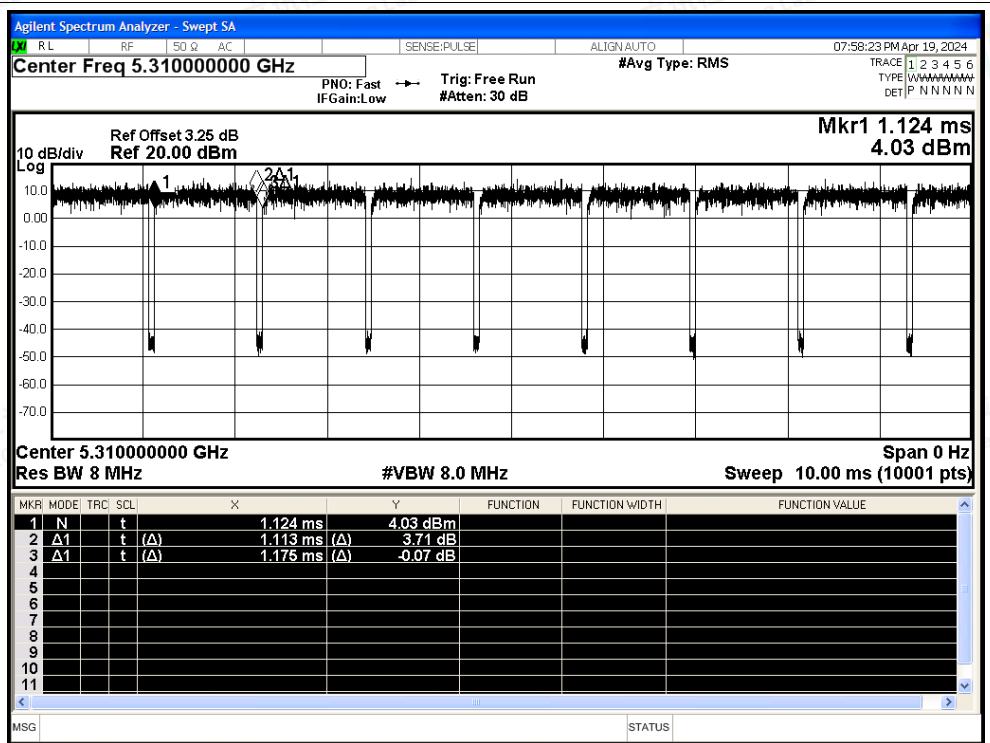


Duty Cycle NVNT ac40 5270MHz Ant1

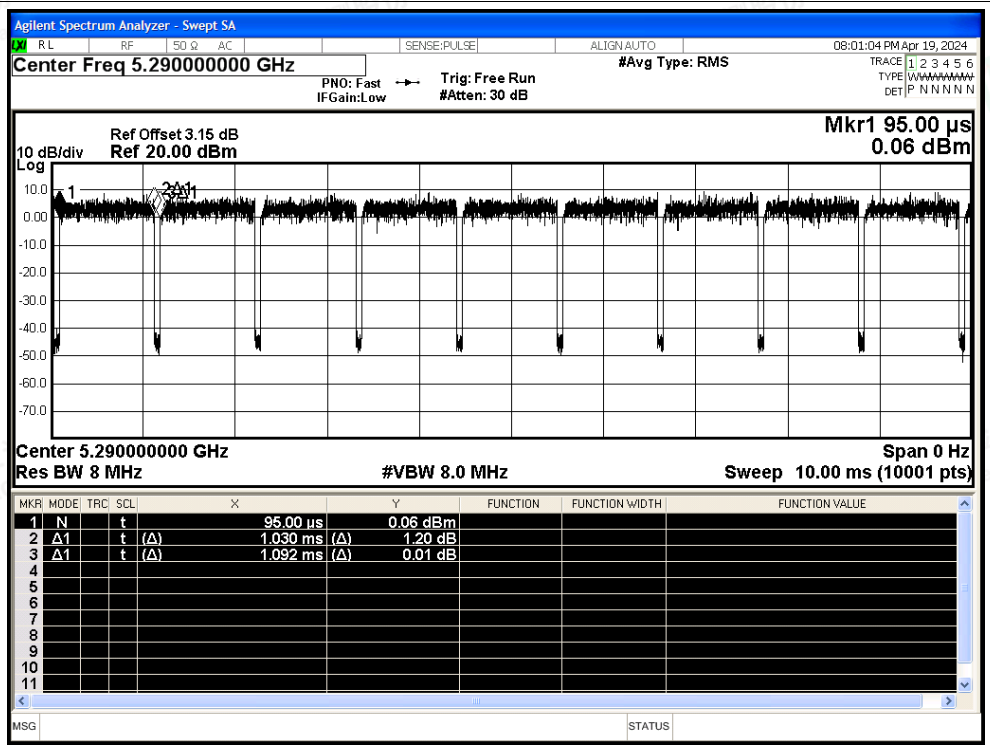




Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant2	94.56	0.24	0.91
NVNT	a	5300	Ant2	94.56	0.24	0.91
NVNT	a	5320	Ant2	94.56	0.24	0.91
NVNT	n20	5260	Ant2	93.77	0.28	1.07
NVNT	n20	5300	Ant2	93.77	0.28	1.07
NVNT	n20	5320	Ant2	93.77	0.28	1.07
NVNT	n40	5270	Ant2	94.71	0.24	0.9
NVNT	n40	5310	Ant2	94.71	0.24	0.9
NVNT	ac20	5260	Ant2	93.72	0.28	1.06
NVNT	ac20	5300	Ant2	93.72	0.28	1.06
NVNT	ac20	5320	Ant2	93.72	0.28	1.06
NVNT	ac40	5270	Ant2	94.72	0.24	0.9
NVNT	ac40	5310	Ant2	94.72	0.24	0.9
NVNT	ac80	5290	Ant2	94.41	0.25	0.97

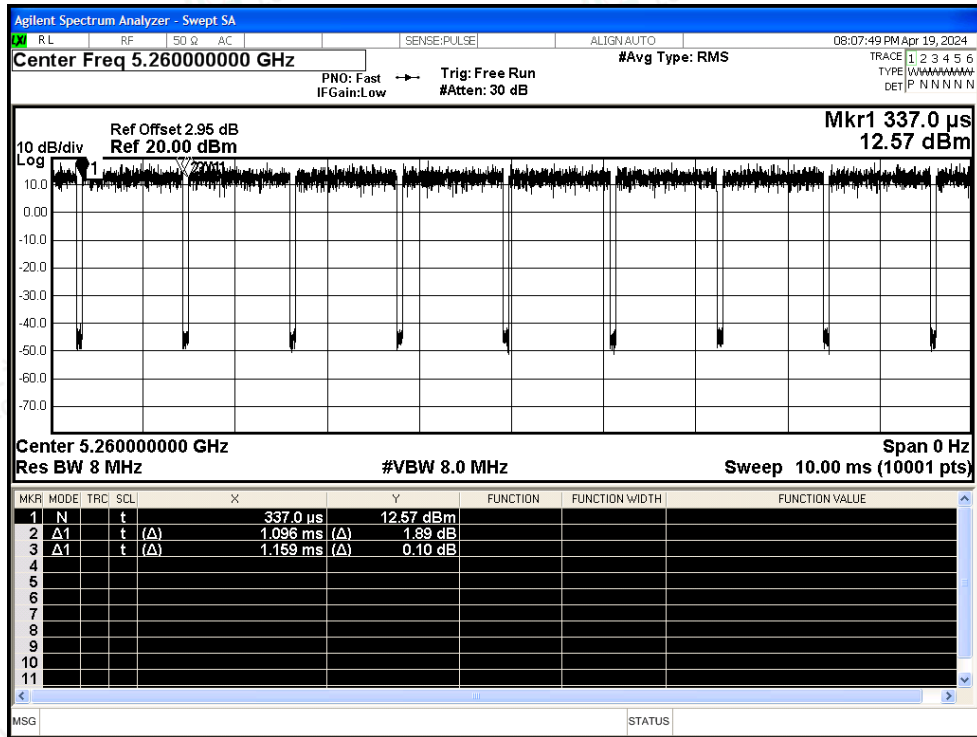


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 Scan code to check authenticity

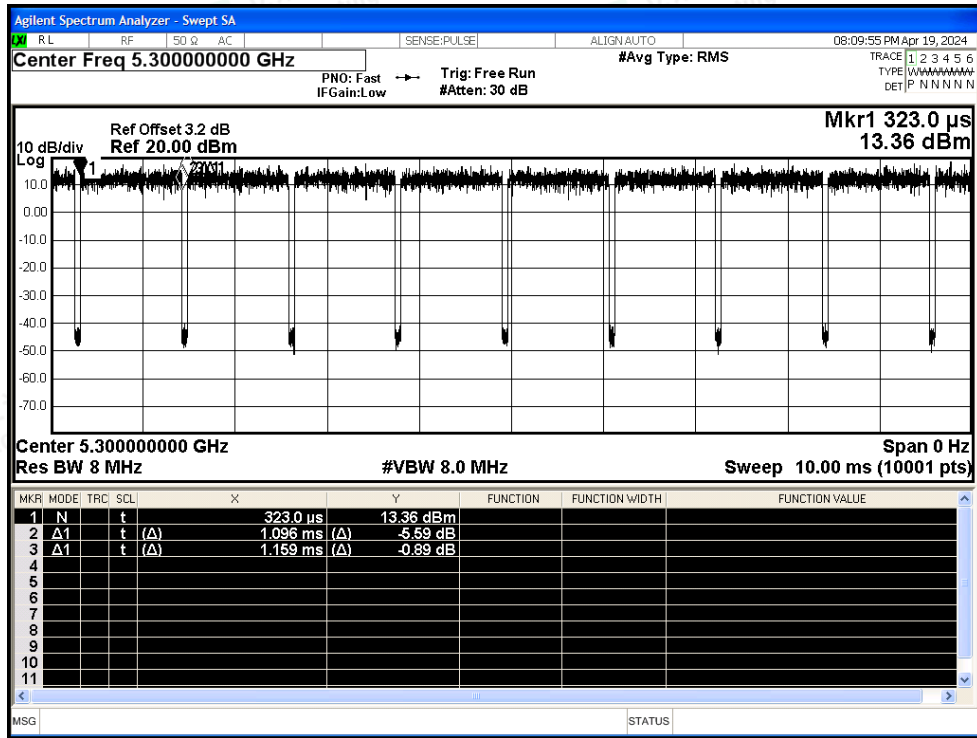


Test Graphs

Duty Cycle NVNT a 5260MHz Ant2

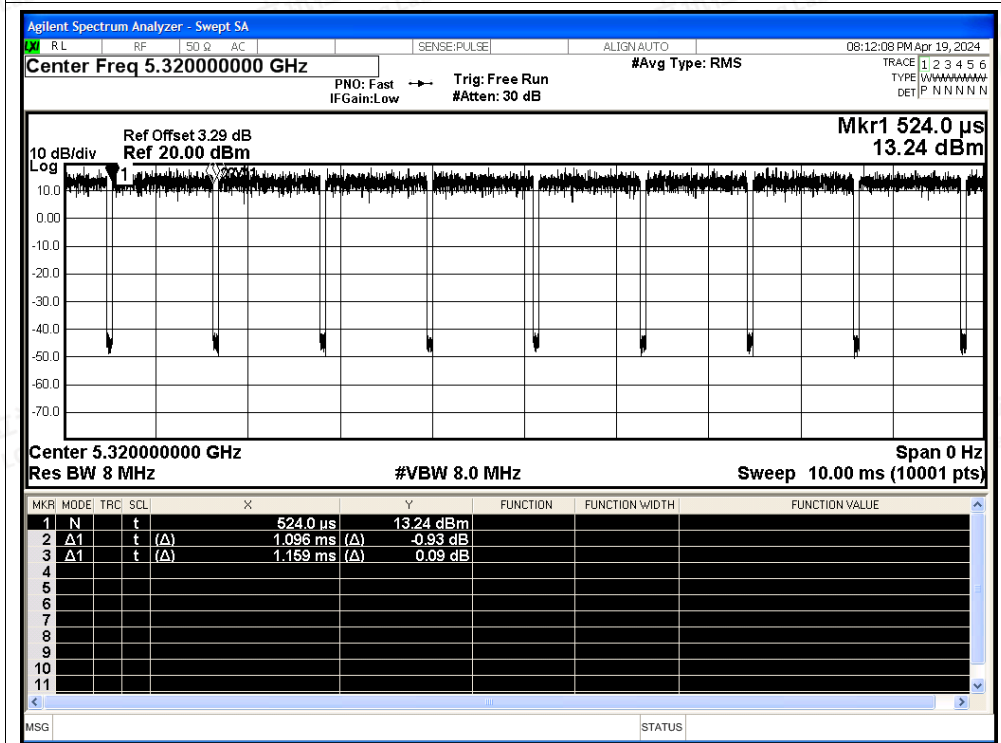


Duty Cycle NVNT a 5300MHz Ant2

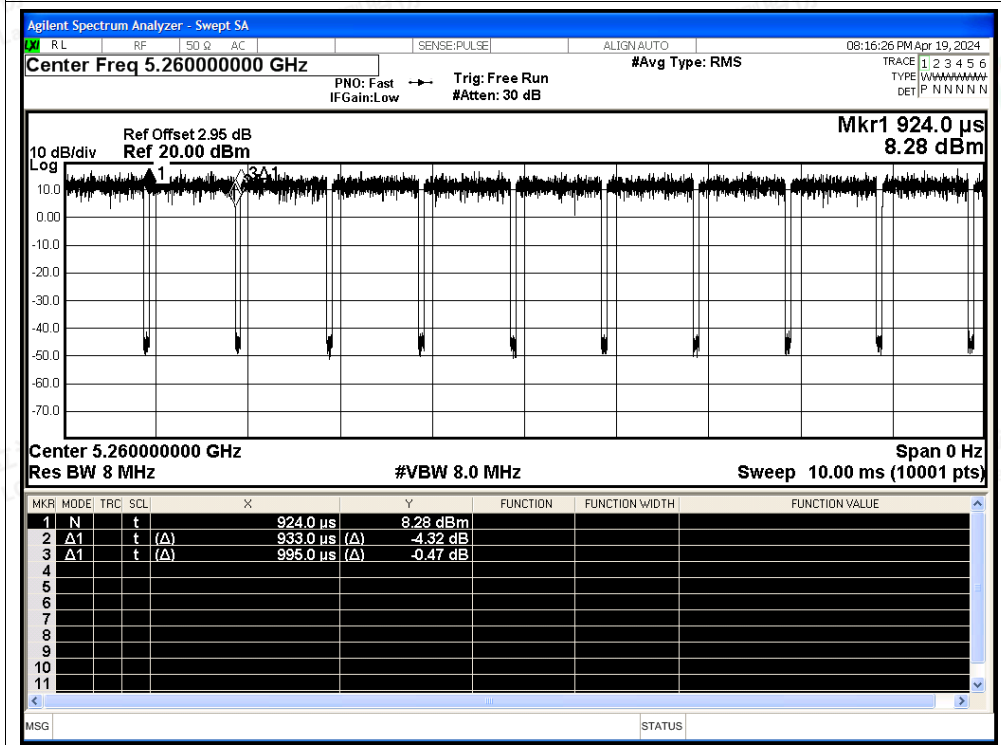




Duty Cycle NVNT a 5320MHz Ant2

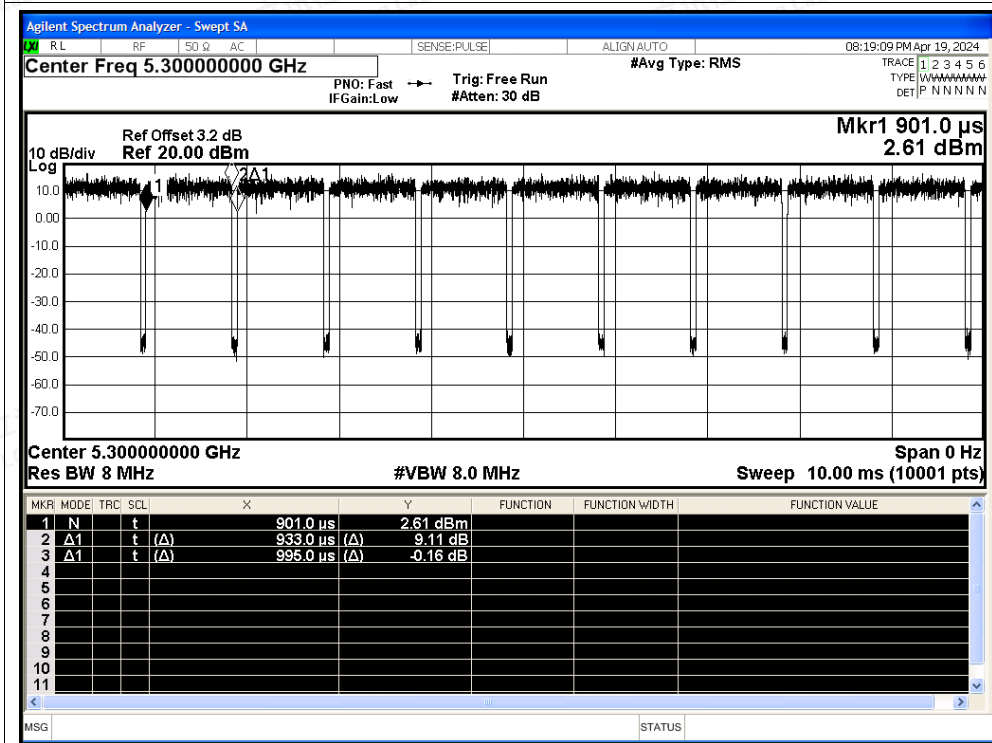


Duty Cycle NVNT n20 5260MHz Ant2

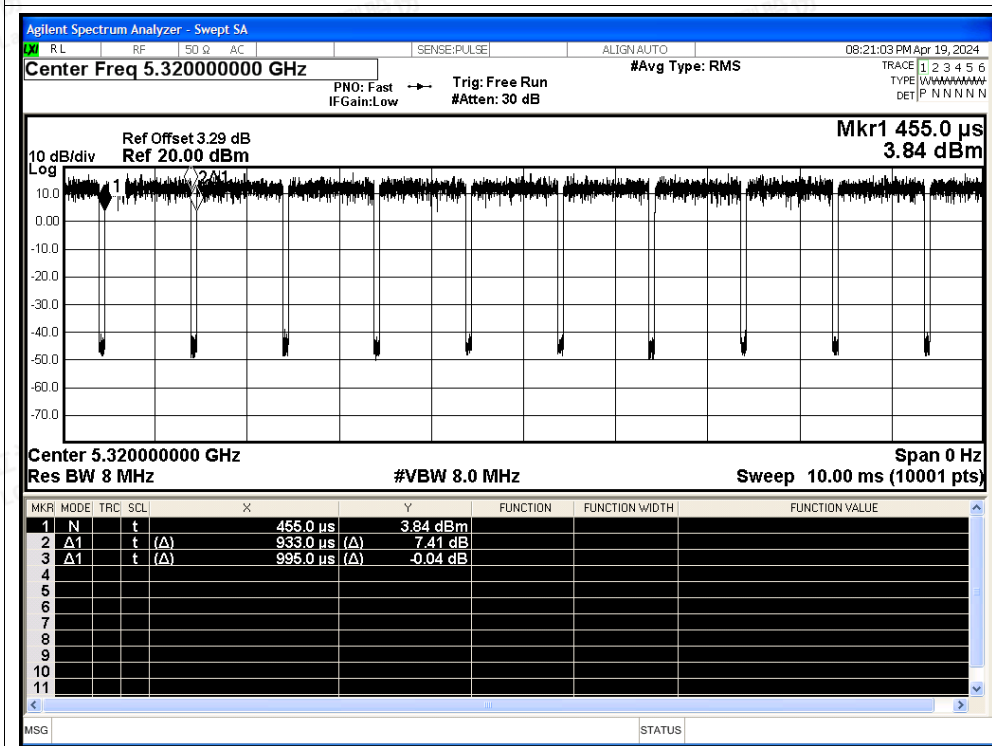




Duty Cycle NVNT n20 5300MHz Ant2

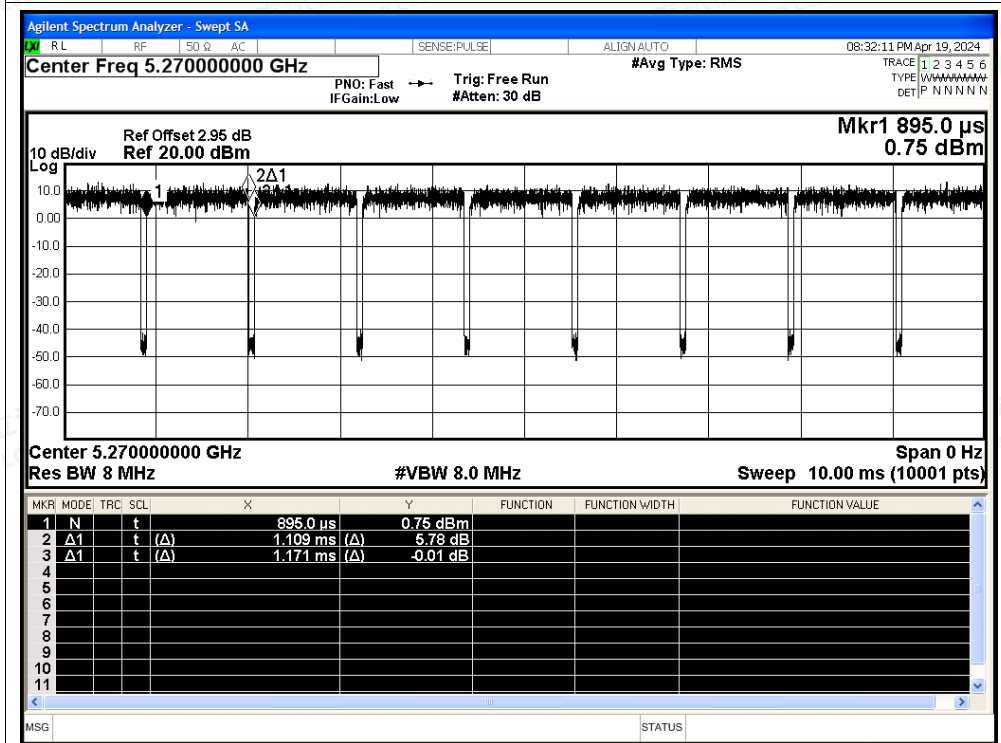


Duty Cycle NVNT n20 5320MHz Ant2

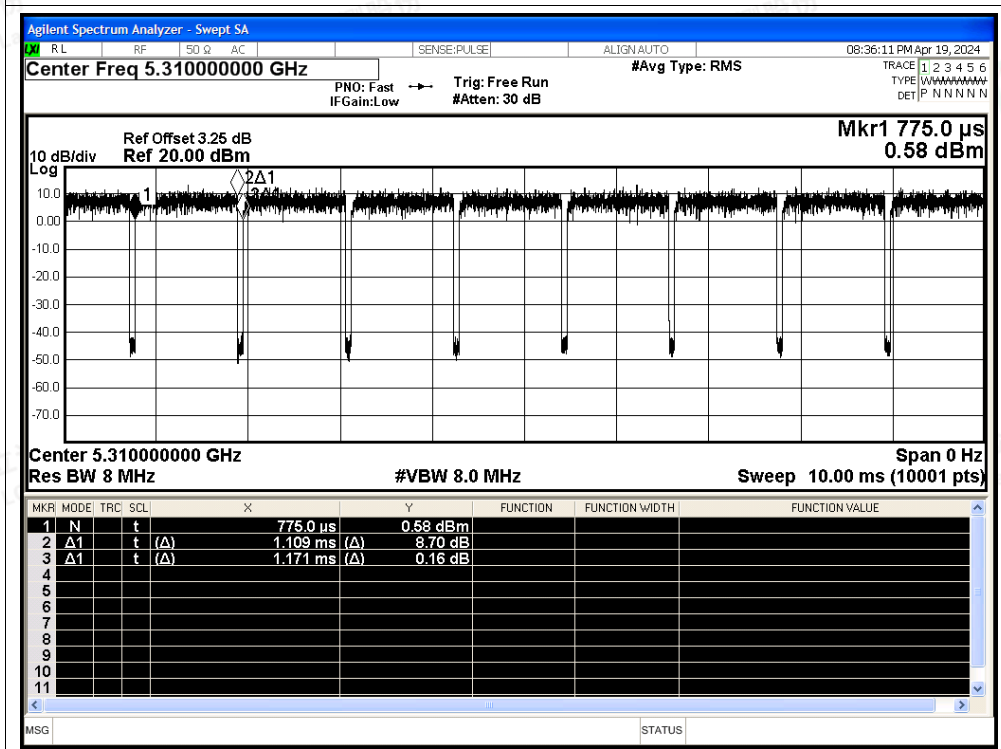




Duty Cycle NVNT n40 5270MHz Ant2

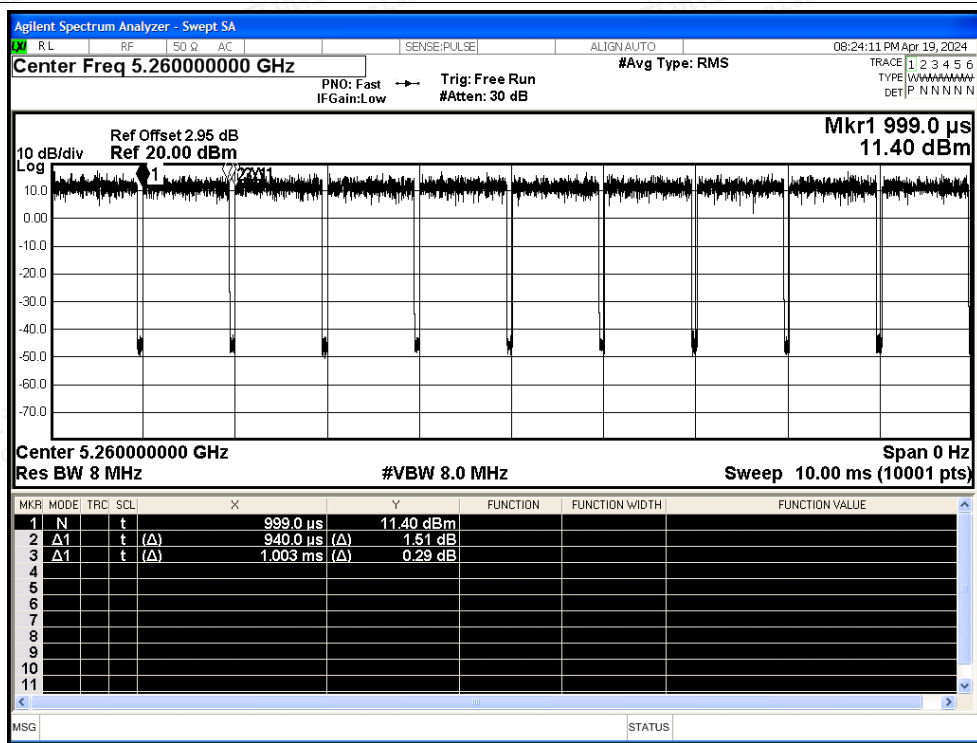


Duty Cycle NVNT n40 5310MHz Ant2

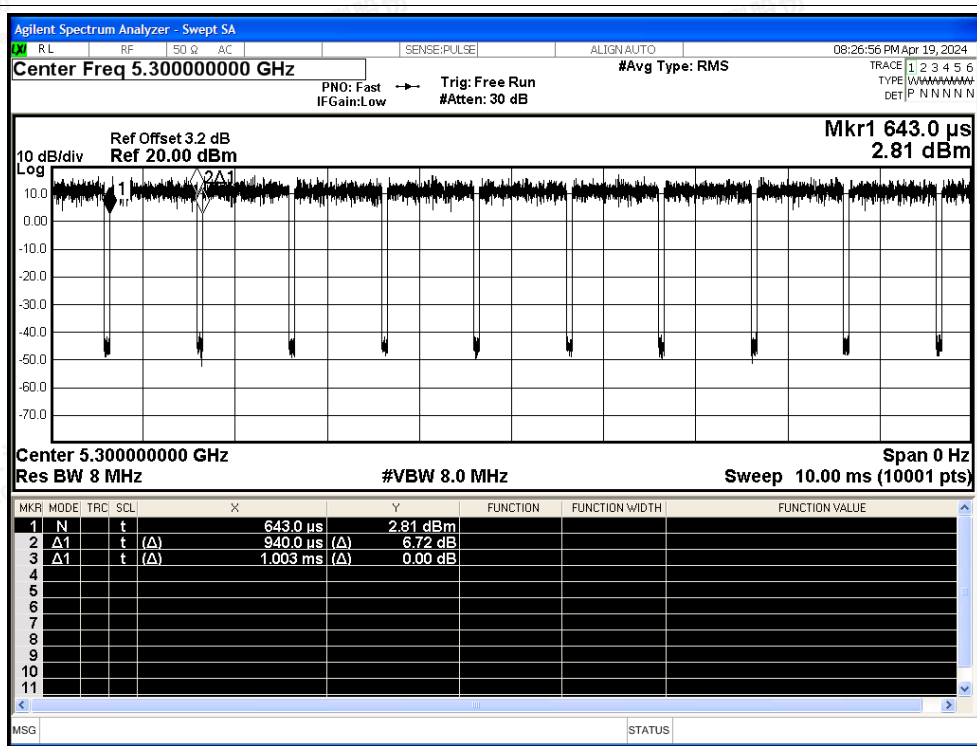




Duty Cycle NVNT ac20 5260MHz Ant2

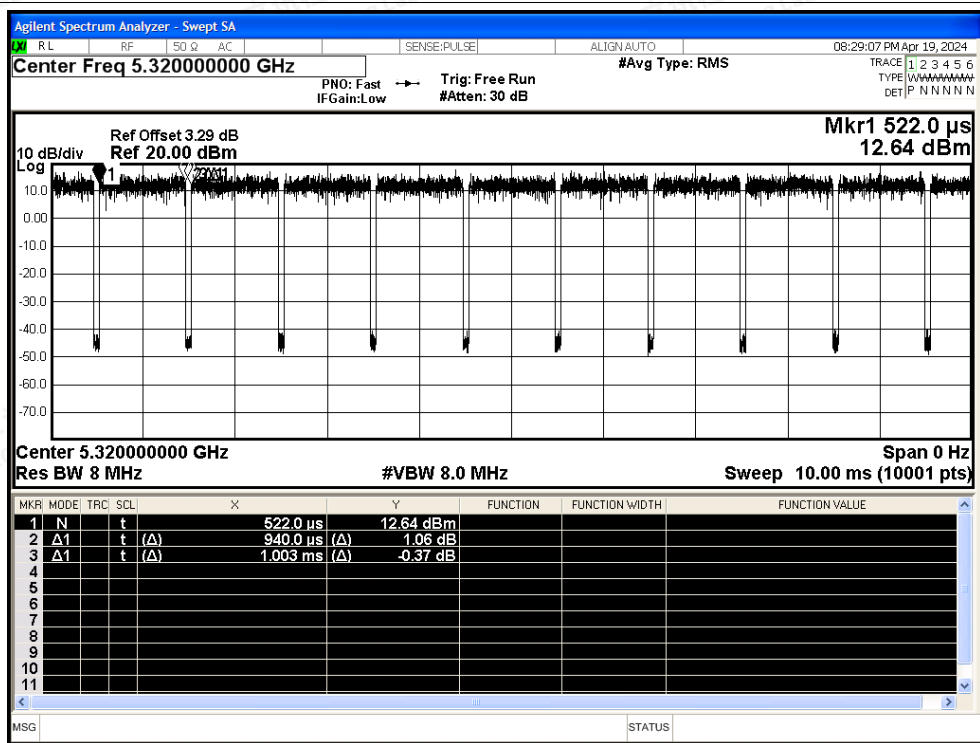


Duty Cycle NVNT ac20 5300MHz Ant2

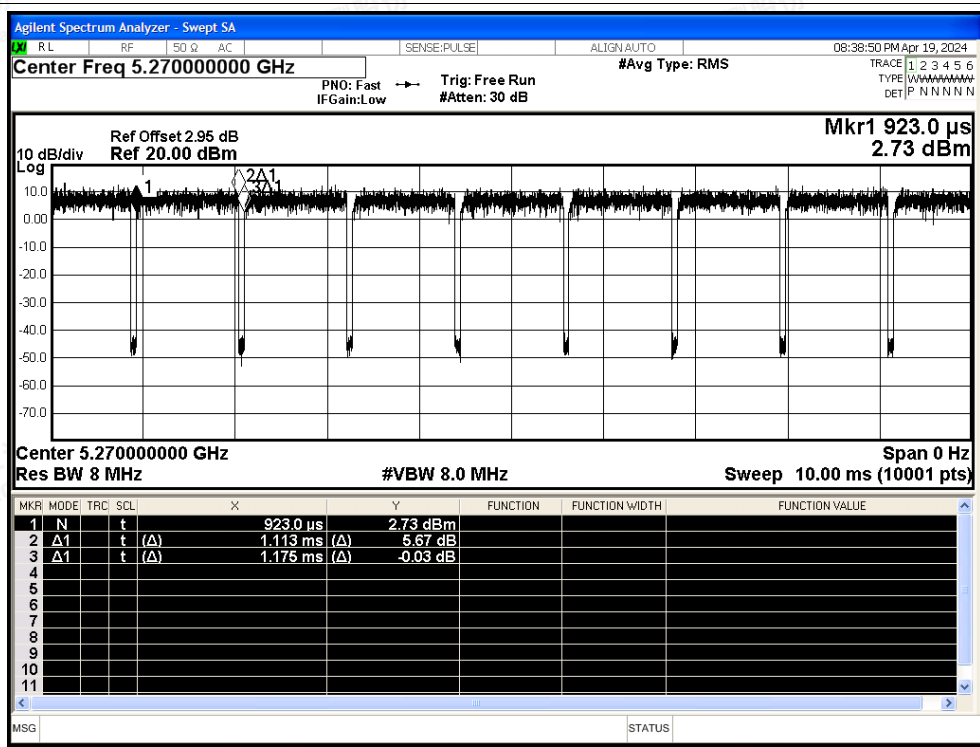




Duty Cycle NVNT ac20 5320MHz Ant2

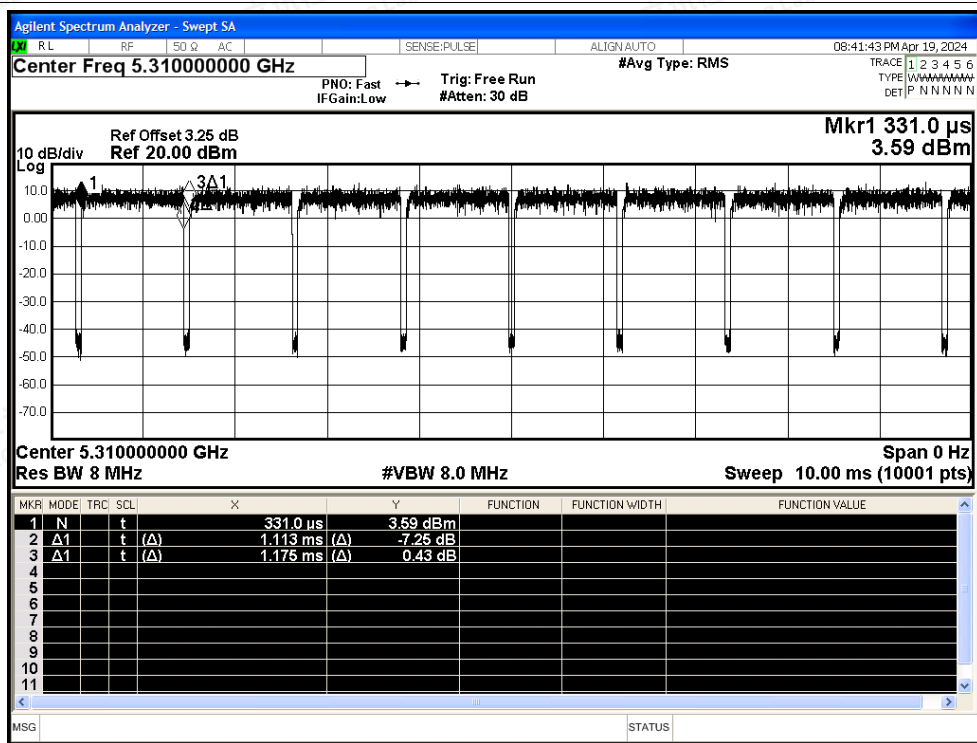


Duty Cycle NVNT ac40 5270MHz Ant2





Duty Cycle NVNT ac40 5310MHz Ant2



Duty Cycle NVNT ac80 5290MHz Ant2

