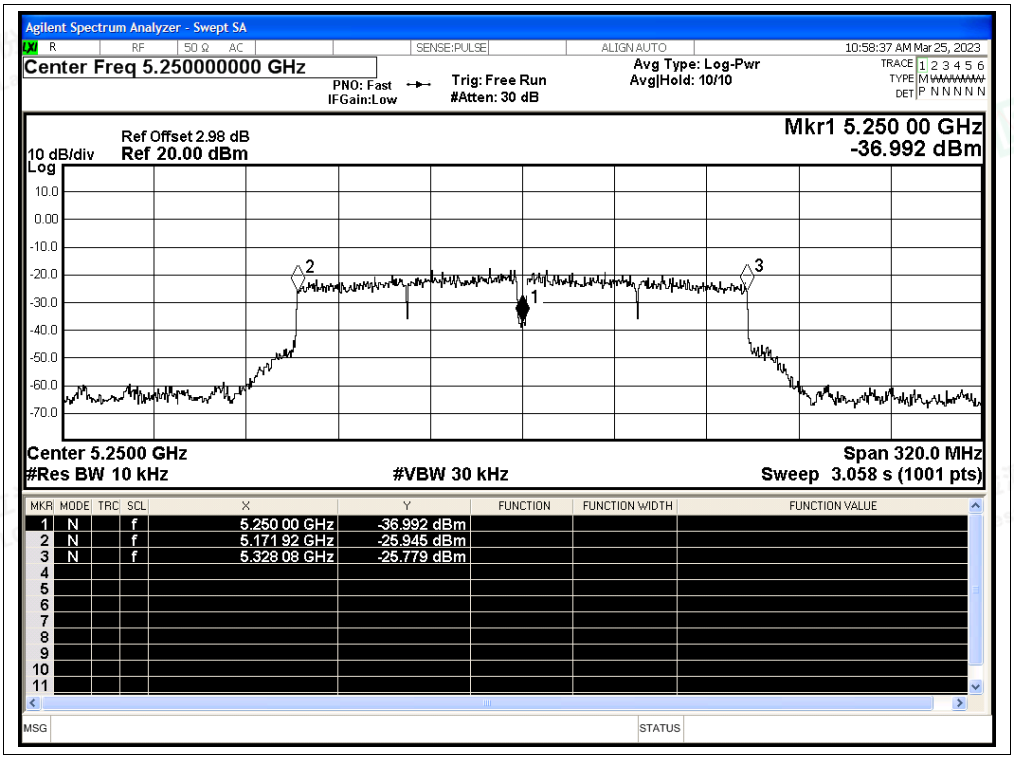
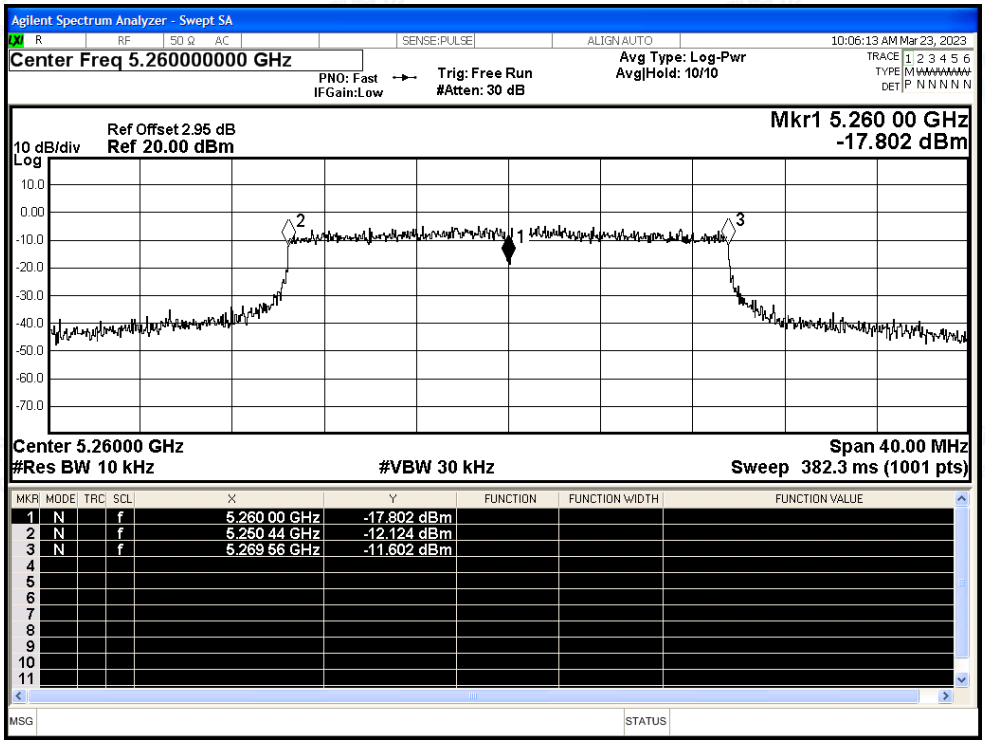
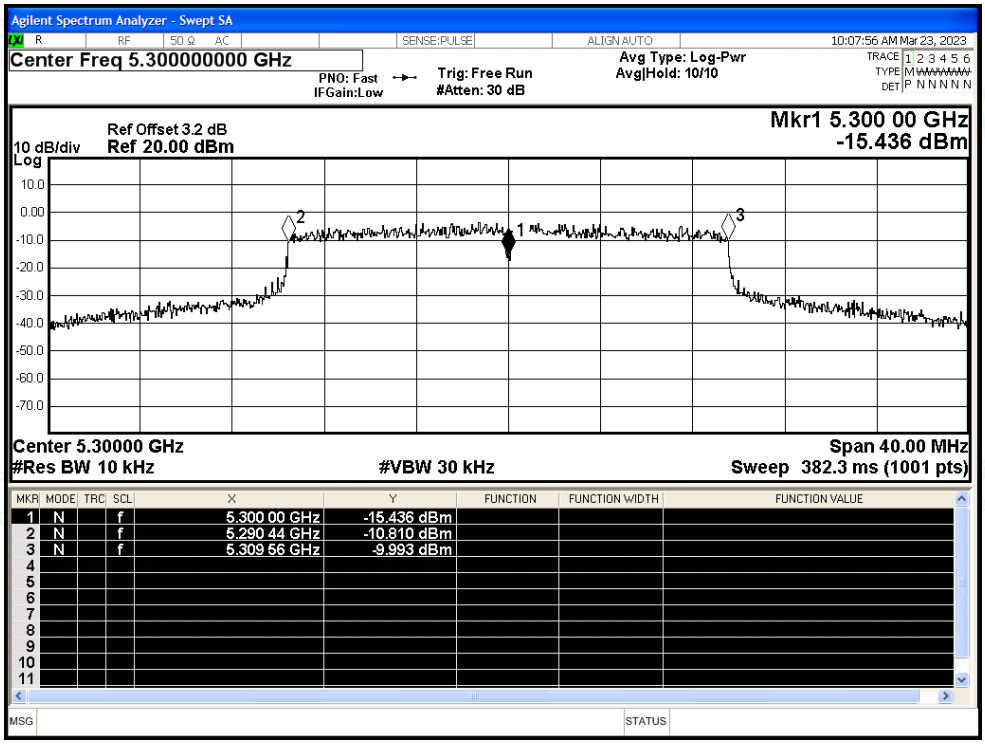

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
10:58:37 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.250 00 GHz
-36.992 dBm
Center 5.2500 GHz
#Res BW 10 kHz
#VBW 30 kHz
Span 320.0 MHz
Sweep 3.058 s (1001 pts)
1 N f 5.250 00 GHz -36.992 dBm
2 N f 5.171 92 GHz -25.945 dBm
3 N f 5.328 08 GHz -25.779 dBm

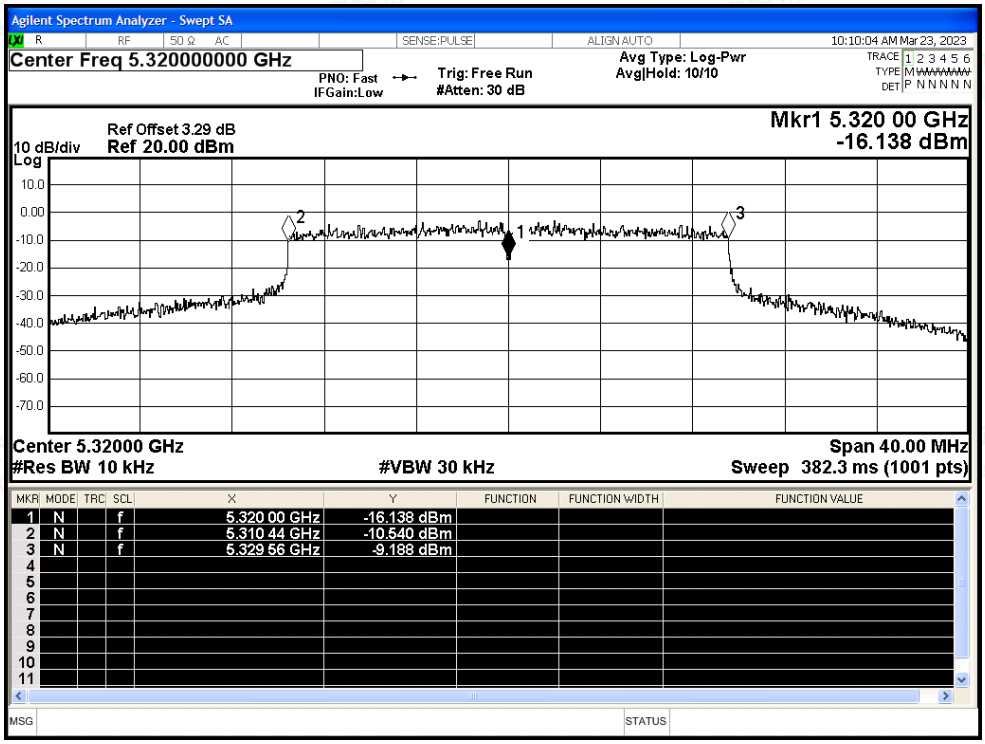
Freq. Stability NVNT ax20 5260MHz Ant1



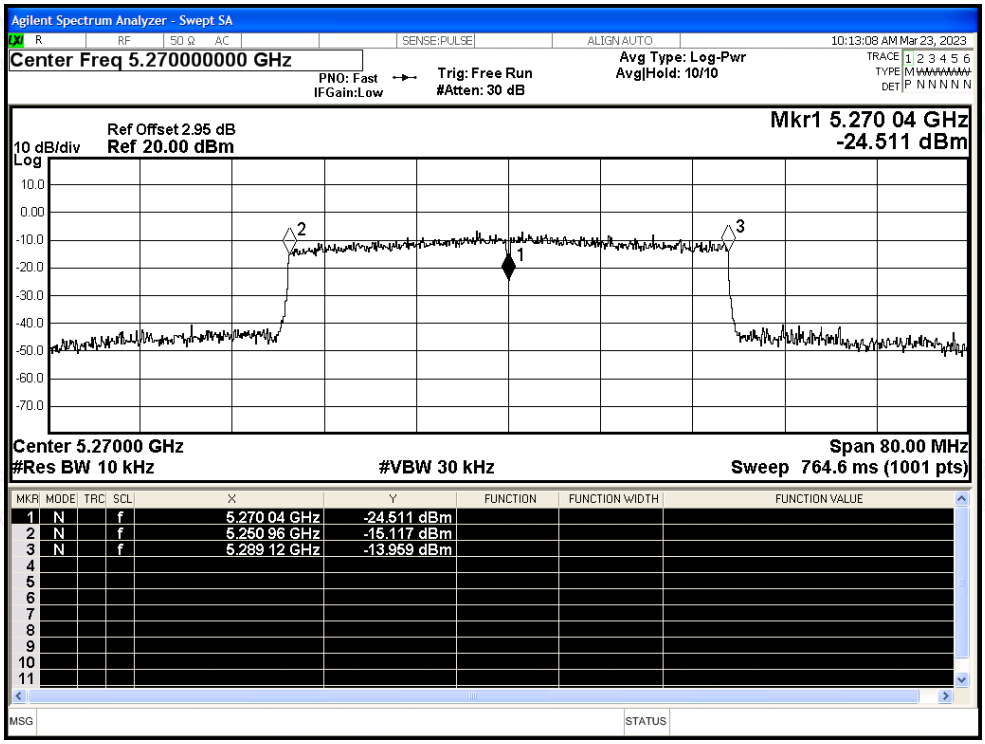
Freq. Stability NVNT ax20 5300MHz Ant1



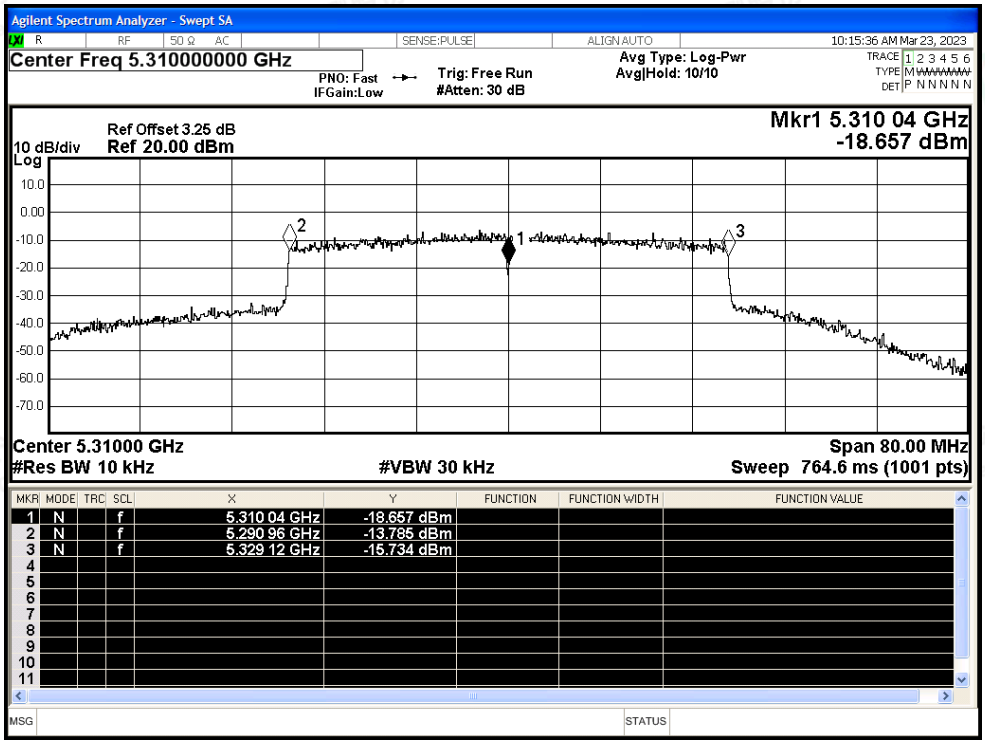
Freq. Stability NVNT ax20 5320MHz Ant1



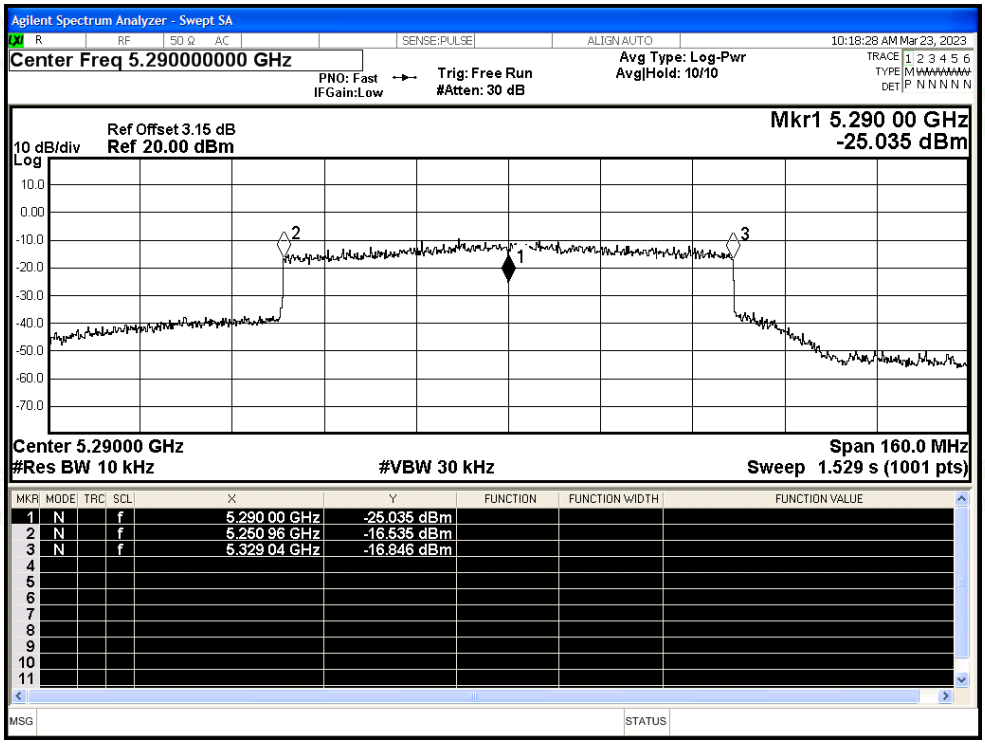
Freq. Stability NVNT ax40 5270MHz Ant1



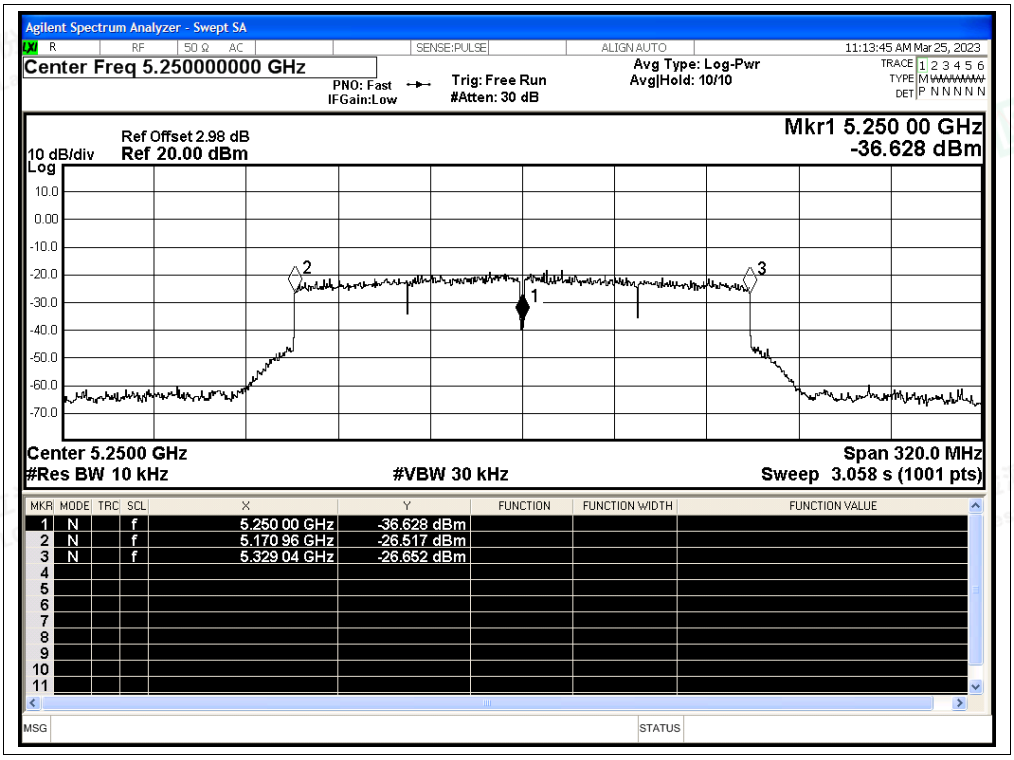
Freq. Stability NVNT ax40 5310MHz Ant1



Freq. Stability NVNT ax80 5290MHz Ant1



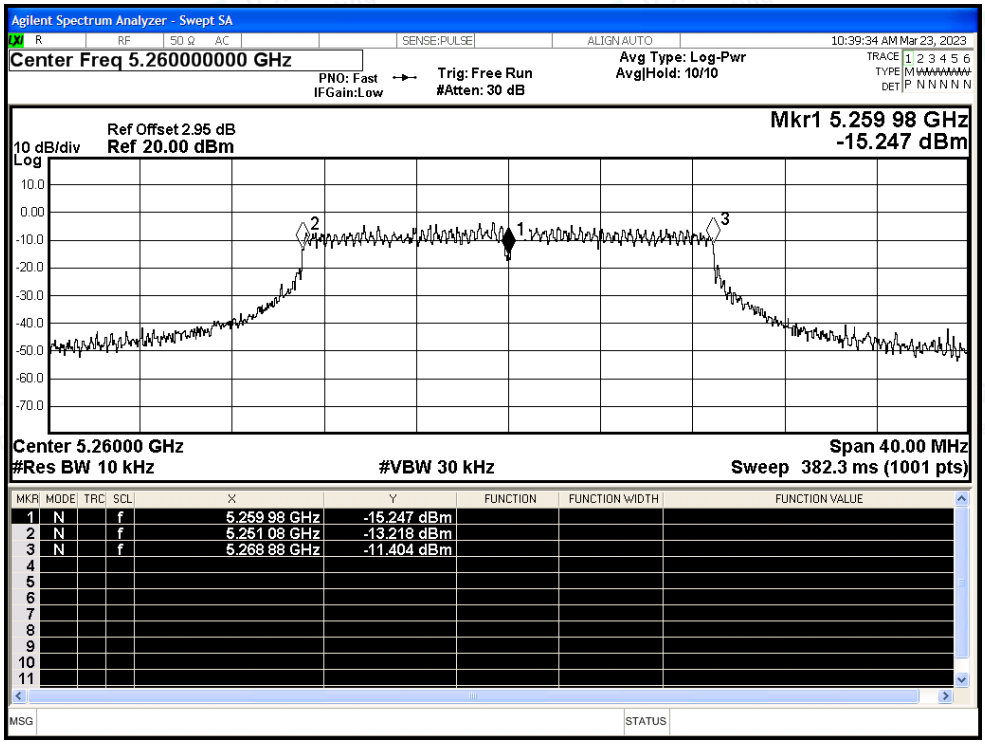
Freq. Stability NVNT ax160 5250MHz Ant1



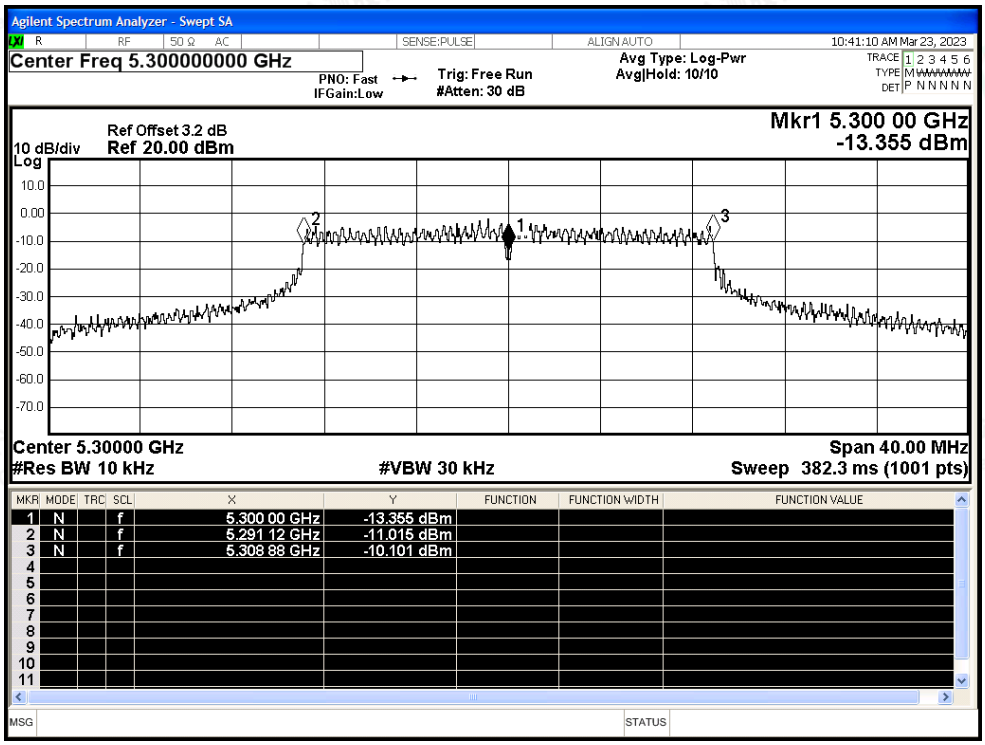
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant2	5259.98	-20000	-3.8	25	Pass
NVNT	ac20	5300	Ant2	5300	0	0	25	Pass
NVNT	ac20	5320	Ant2	5320	0	0	25	Pass
NVNT	ac40	5270	Ant2	5270.04	40000	7.59	25	Pass
NVNT	ac40	5310	Ant2	5310	0	0	25	Pass
NVNT	ac80	5290	Ant2	5290	0	0	25	Pass
NVNT	ac160	5250	Ant2	5250	0	0	25	Pass
NVNT	ax20	5260	Ant2	5260	0	0	25	Pass
NVNT	ax20	5300	Ant2	5300	0	0	25	Pass
NVNT	ax20	5320	Ant2	5320	0	0	25	Pass
NVNT	ax40	5270	Ant2	5270.04	40000	7.59	25	Pass
NVNT	ax40	5310	Ant2	5310.04	40000	7.53	25	Pass
NVNT	ax80	5290	Ant2	5290	0	0	25	Pass
NVNT	ax160	5250	Ant2	5250	0	0	25	Pass

Test Graphs

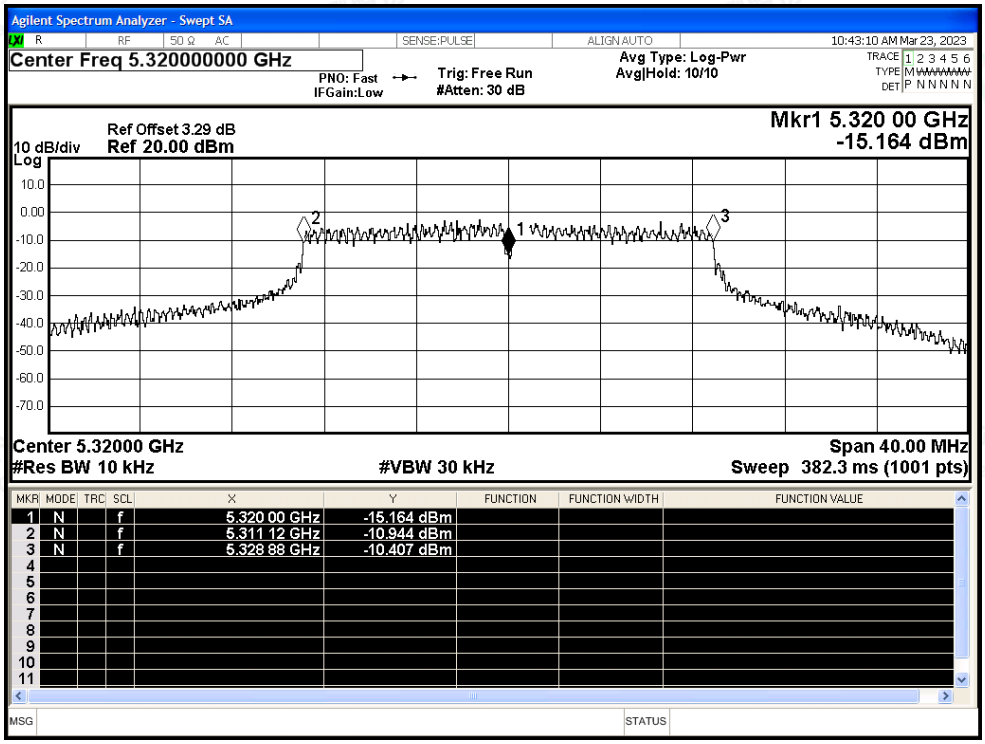
Freq. Stability NVNT ac20 5260MHz Ant2



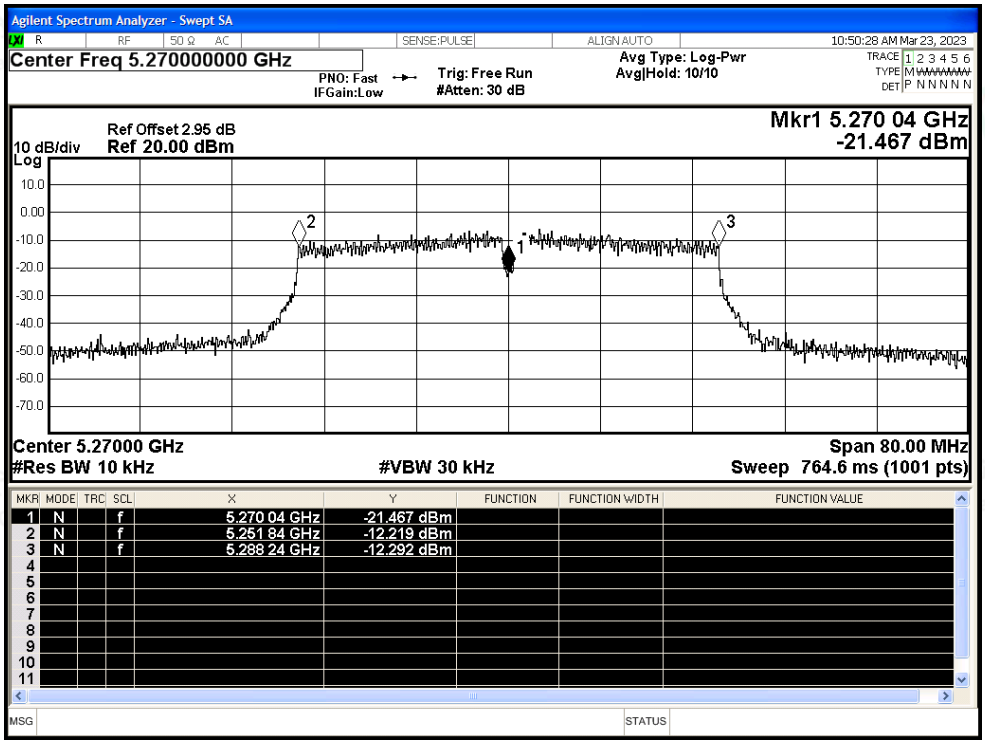
Freq. Stability NVNT ac20 5300MHz Ant2



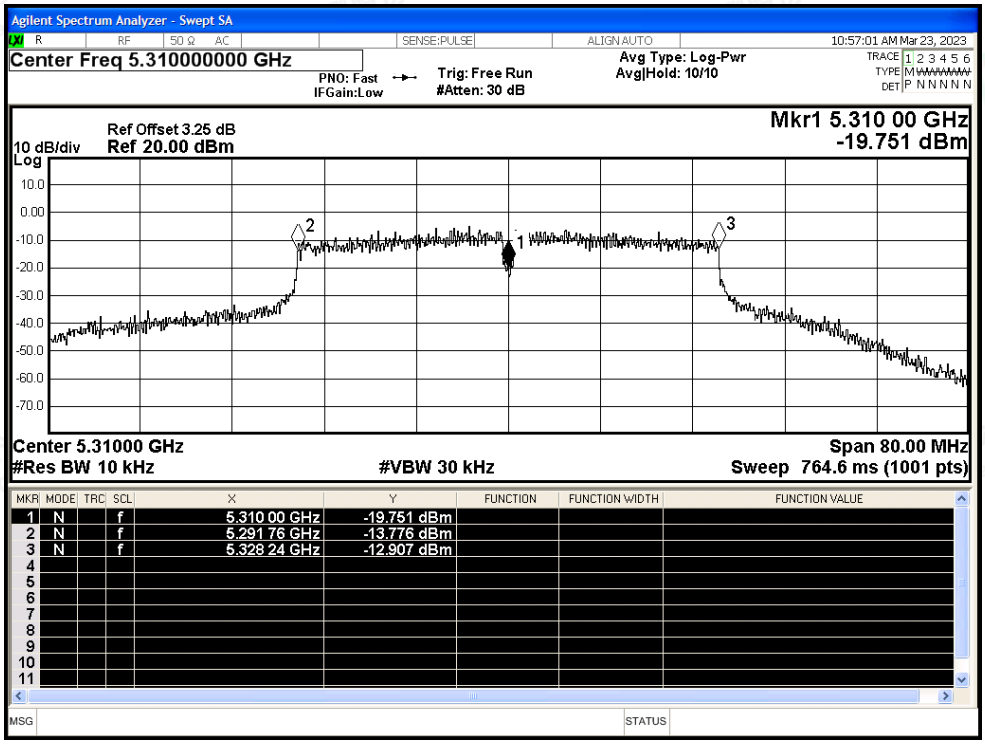
Freq. Stability NVNT ac20 5320MHz Ant2



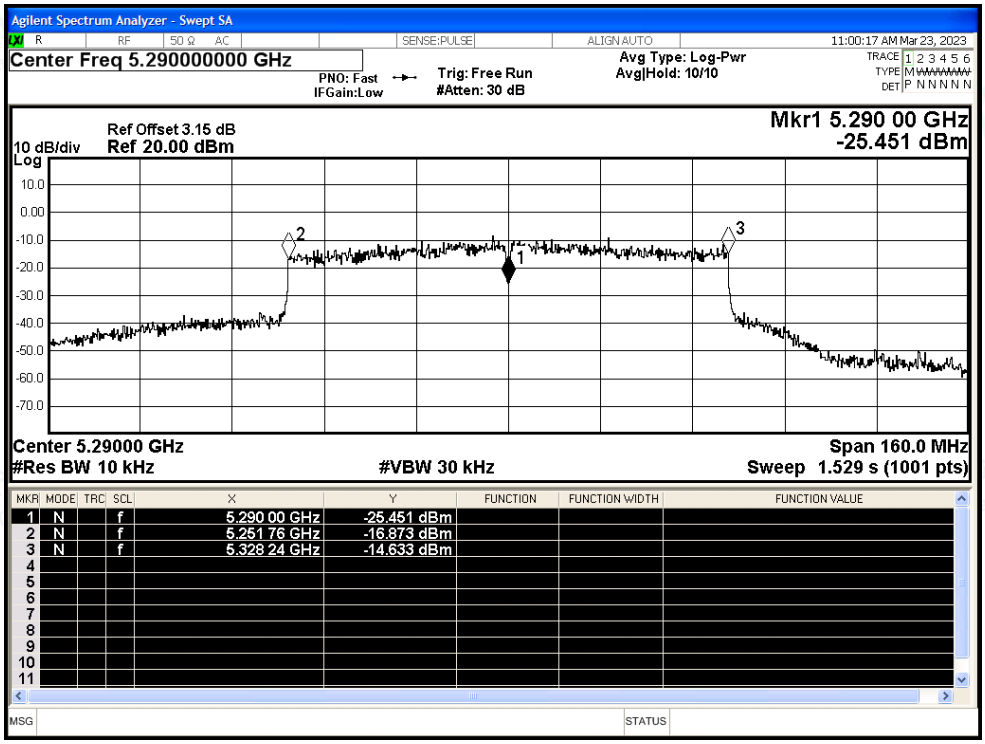
Freq. Stability NVNT ac40 5270MHz Ant2



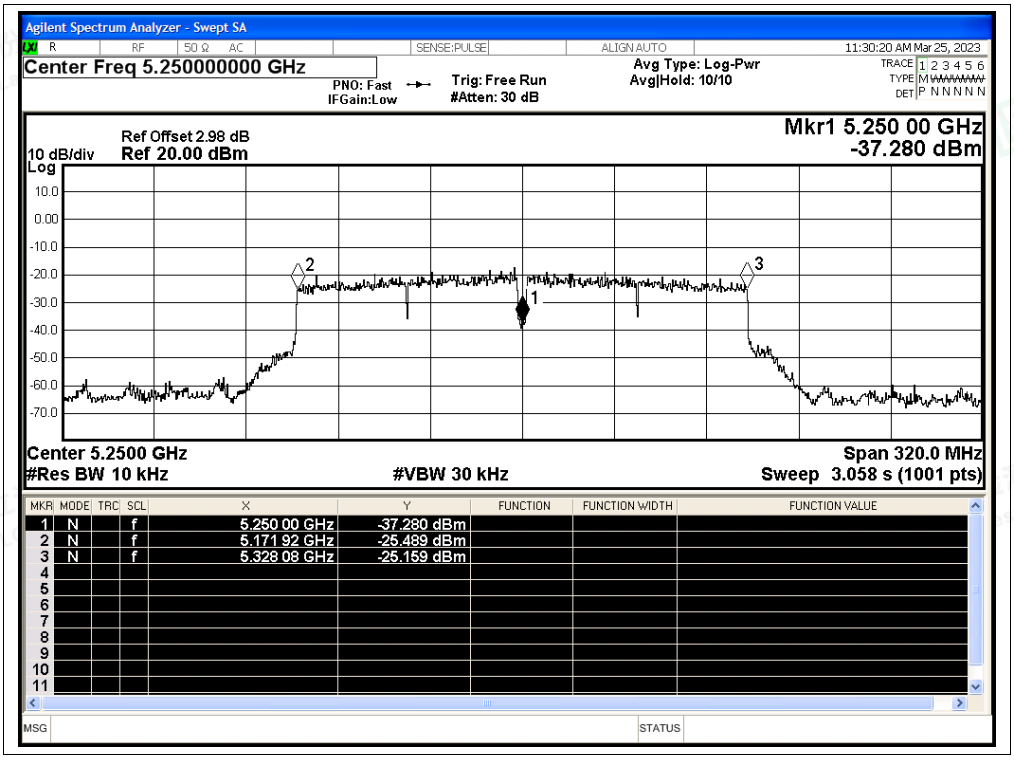
Freq. Stability NVNT ac40 5310MHz Ant2



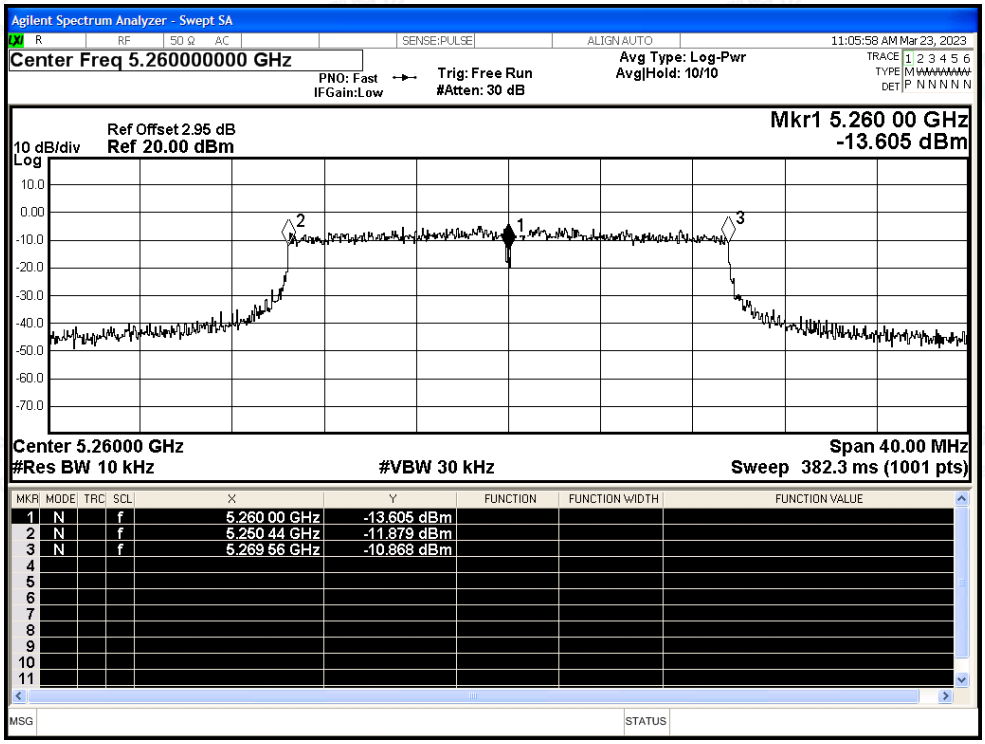
Freq. Stability NVNT ac80 5290MHz Ant2



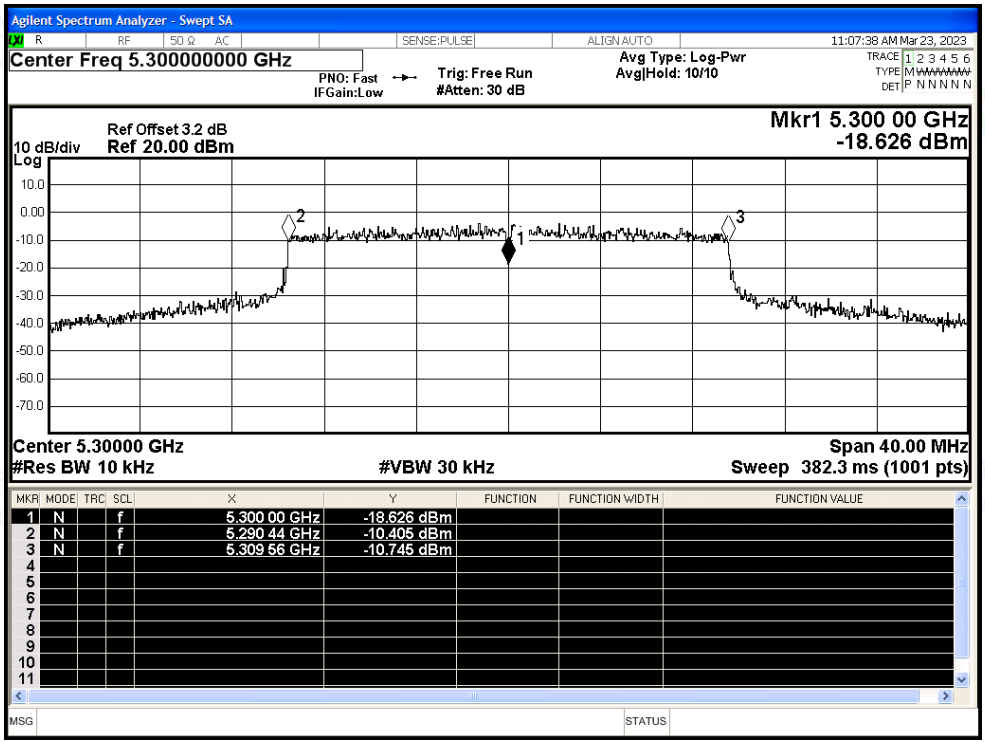
Freq. Stability NVNT ac160 5250MHz Ant2


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
11:30:20 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.250 00 GHz
-37.280 dBm
Center 5.2500 GHz
#Res BW 10 kHz
#VBW 30 kHz
Span 320.0 MHz
Sweep 3.058 s (1001 pts)
1 N f 5.250 00 GHz -37.280 dBm
2 N f 5.171 92 GHz -25.489 dBm
3 N f 5.328 08 GHz -25.159 dBm

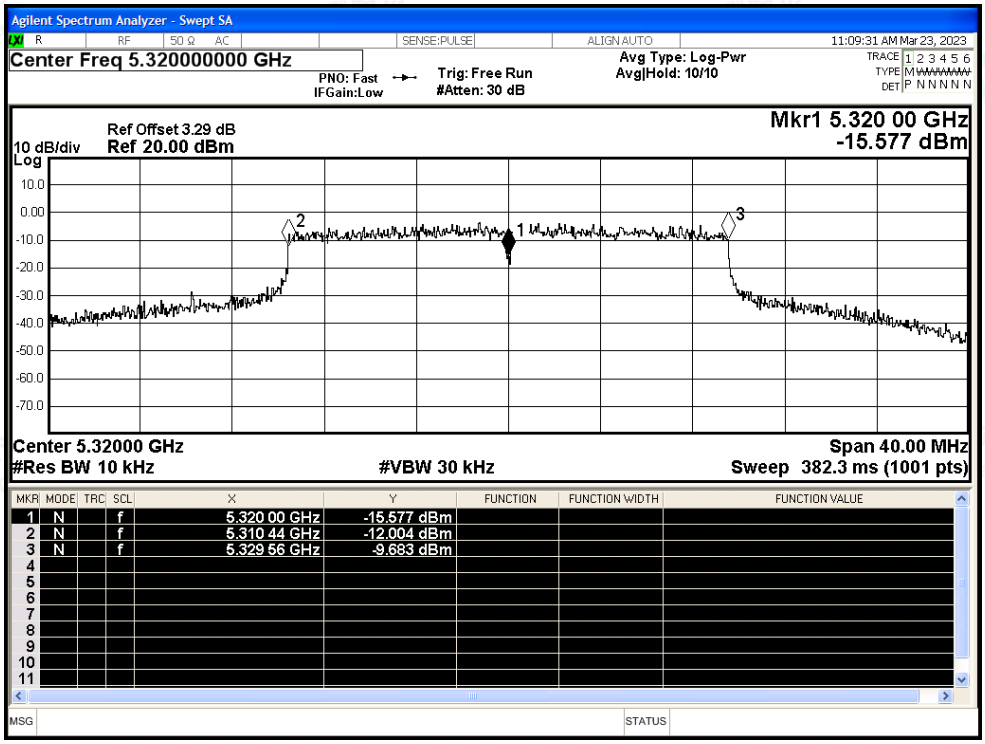
Freq. Stability NVNT ax20 5260MHz Ant2



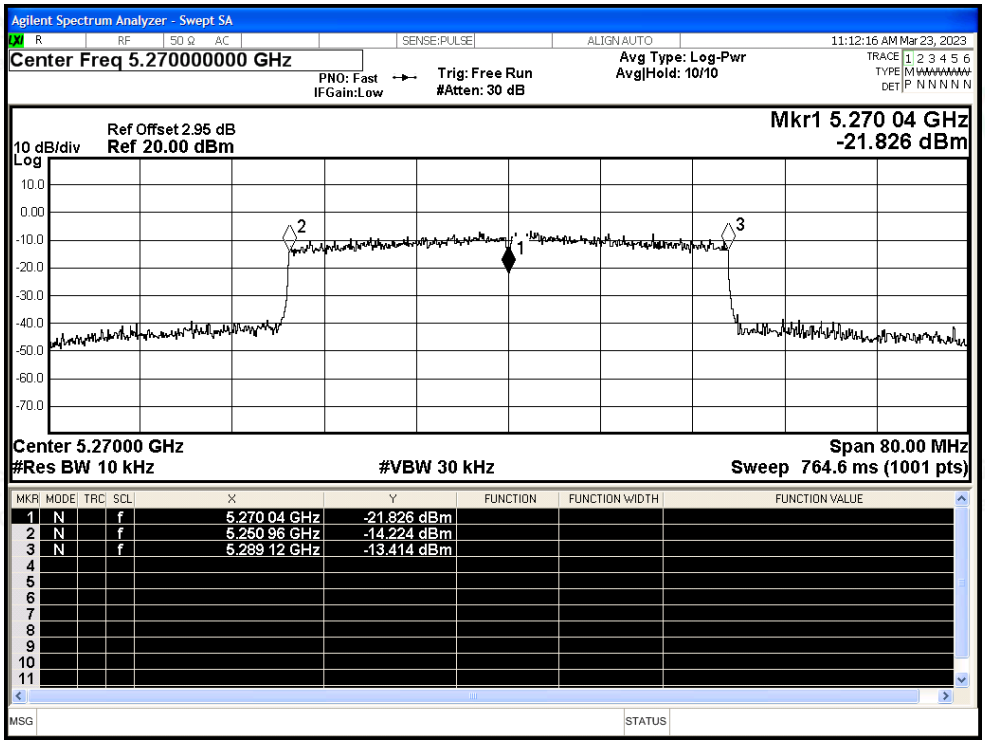
Freq. Stability NVNT ax20 5300MHz Ant2



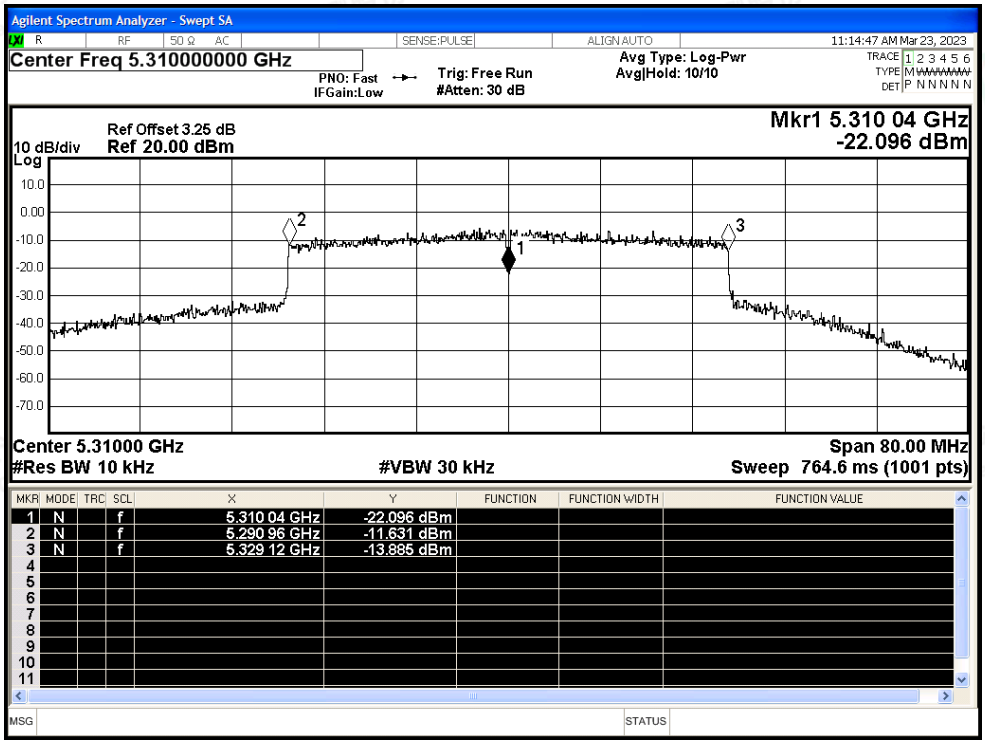
Freq. Stability NVNT ax20 5320MHz Ant2



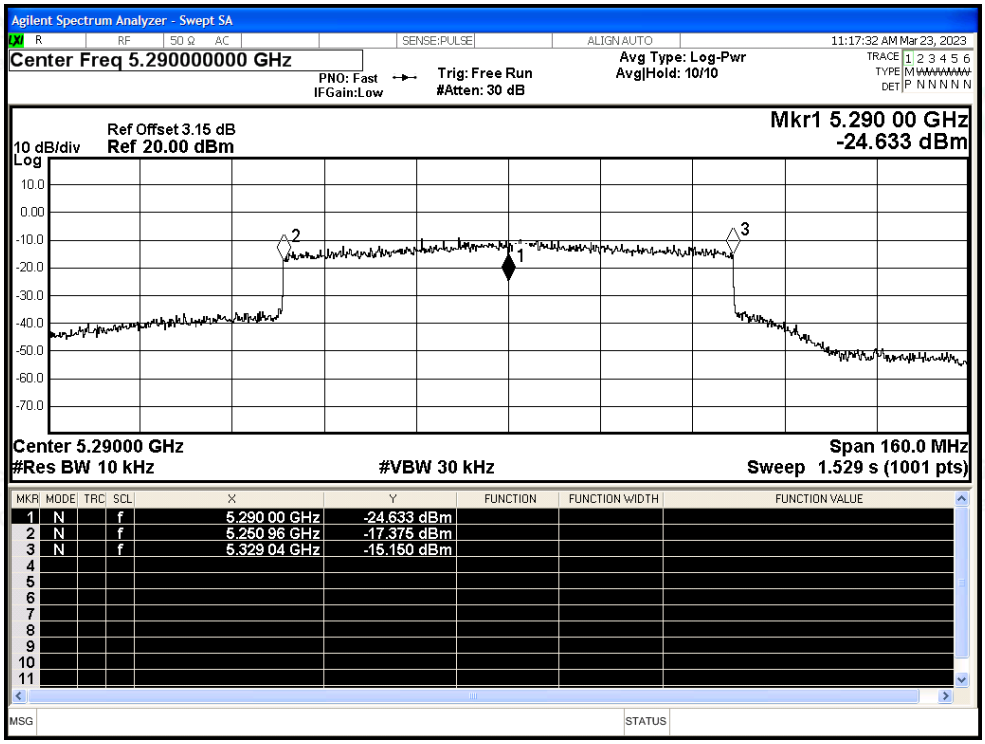
Freq. Stability NVNT ax40 5270MHz Ant2



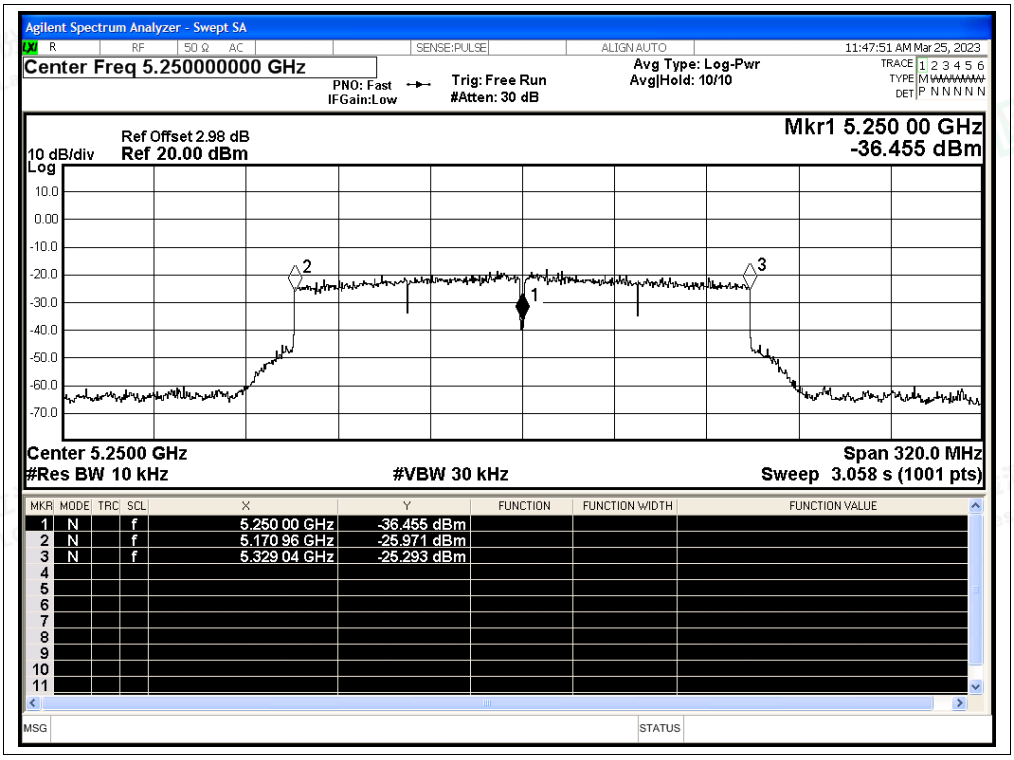
Freq. Stability NVNT ax40 5310MHz Ant2



Freq. Stability NVNT ax80 5290MHz Ant2



Freq. Stability NVNT ax160 5250MHz Ant2

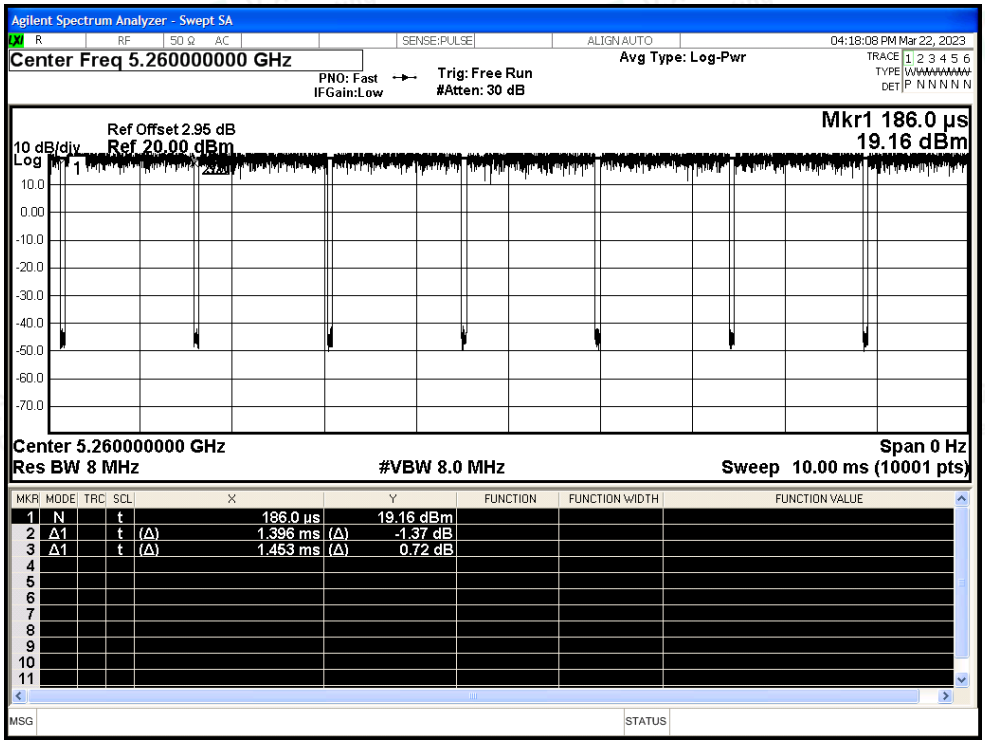

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
11:47:51 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.250 00 GHz
-36.455 dBm
Center 5.2500 GHz
#Res BW 10 kHz
#VBW 30 kHz
Span 320.0 MHz
Sweep 3.058 s (1001 pts)
1 N 1 f 5.250 00 GHz -36.455 dBm
2 N 1 f 5.170 96 GHz -25.971 dBm
3 N 1 f 5.329 04 GHz -25.293 dBm

C.6 Duty Cycle

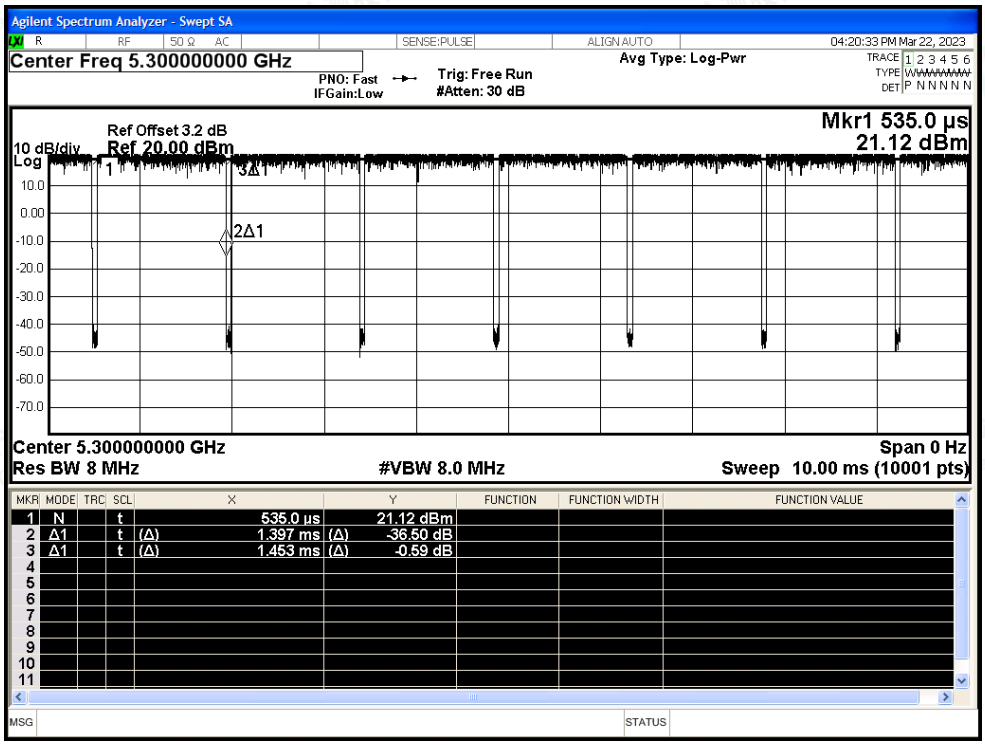
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant0	96.08	0.17	0.72
NVNT	a	5300	Ant0	96.15	0.17	0.72
NVNT	a	5320	Ant0	96.08	0.17	0.72
NVNT	n20	5260	Ant0	95.85	0.18	0.77
NVNT	n20	5300	Ant0	95.85	0.18	0.77
NVNT	n20	5320	Ant0	95.85	0.18	0.77
NVNT	n40	5270	Ant0	92.06	0.36	1.54
NVNT	n40	5310	Ant0	92.06	0.36	1.54
NVNT	ac20	5260	Ant0	89.57	0.48	2.08
NVNT	ac20	5300	Ant0	89.57	0.48	2.08
NVNT	ac20	5320	Ant0	89.57	0.48	2.08
NVNT	ac40	5270	Ant0	82.33	0.84	3.83
NVNT	ac40	5310	Ant0	82.02	0.86	3.85
NVNT	ac80	5290	Ant0	53.11	2.75	15.63
NVNT	ac160	5250	Ant0	66.67	1.76	10
NVNT	ax20	5260	Ant0	88.45	0.53	2.33
NVNT	ax20	5300	Ant0	88.27	0.54	2.33
NVNT	ax20	5320	Ant0	88.45	0.53	2.33
NVNT	ax40	5270	Ant0	82.82	0.82	3.7
NVNT	ax40	5310	Ant0	82.87	0.82	3.69
NVNT	ax80	5290	Ant0	88.03	0.55	2.43
NVNT	ax160	5250	Ant0	88.96	0.51	2.43

Test Graphs

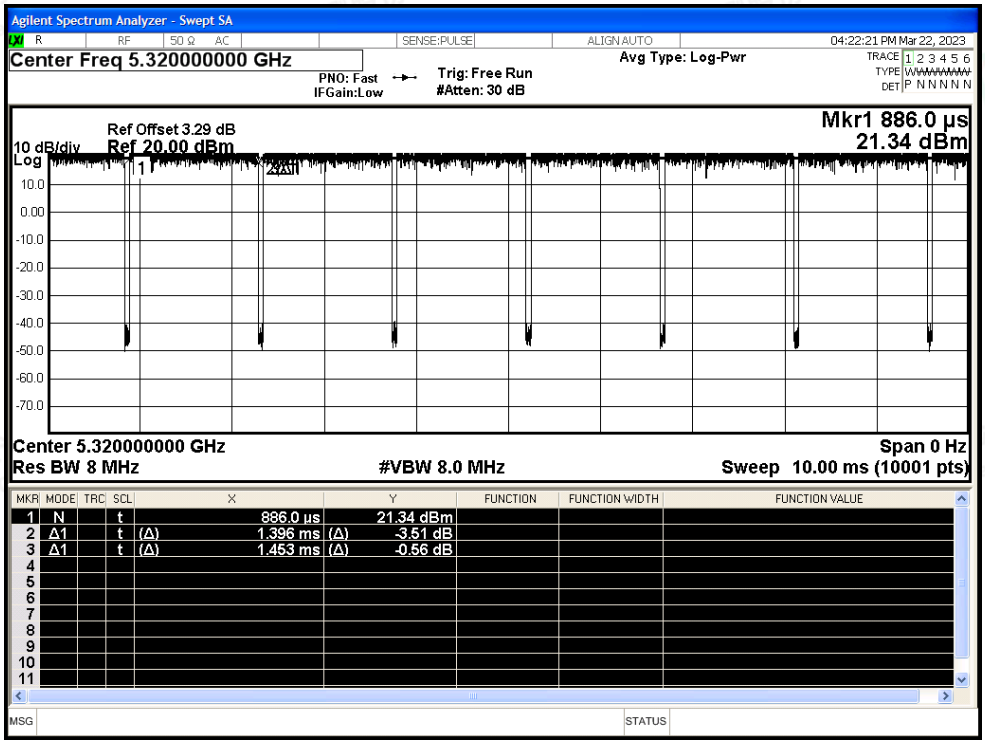
Duty Cycle NVNT a 5260MHz Ant0



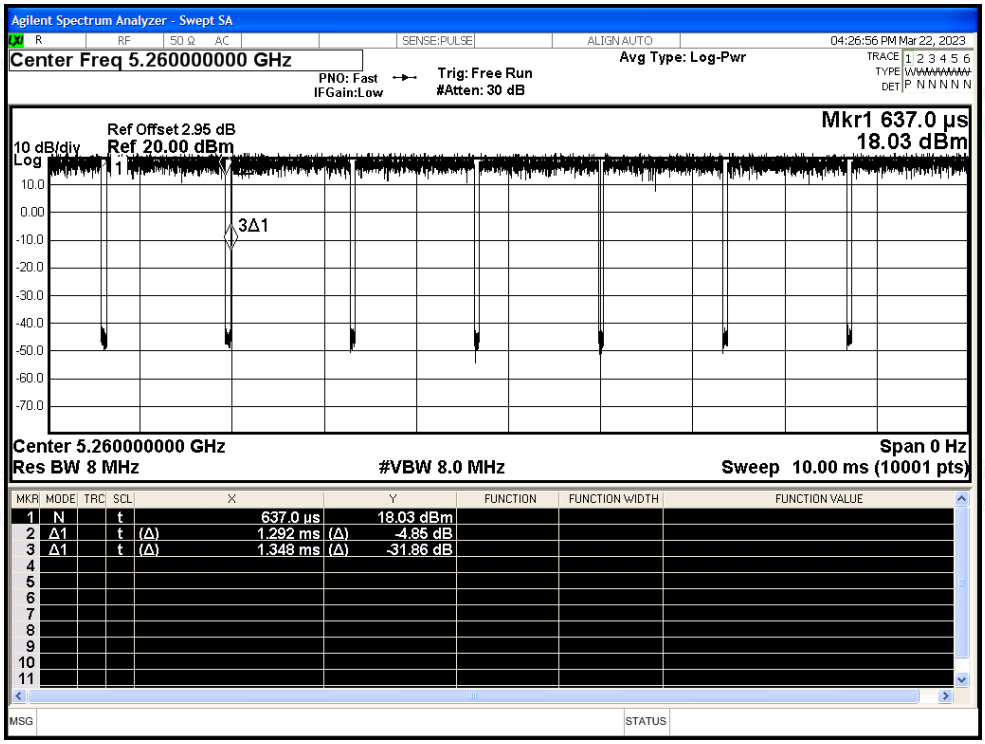
Duty Cycle NVNT a 5300MHz Ant0



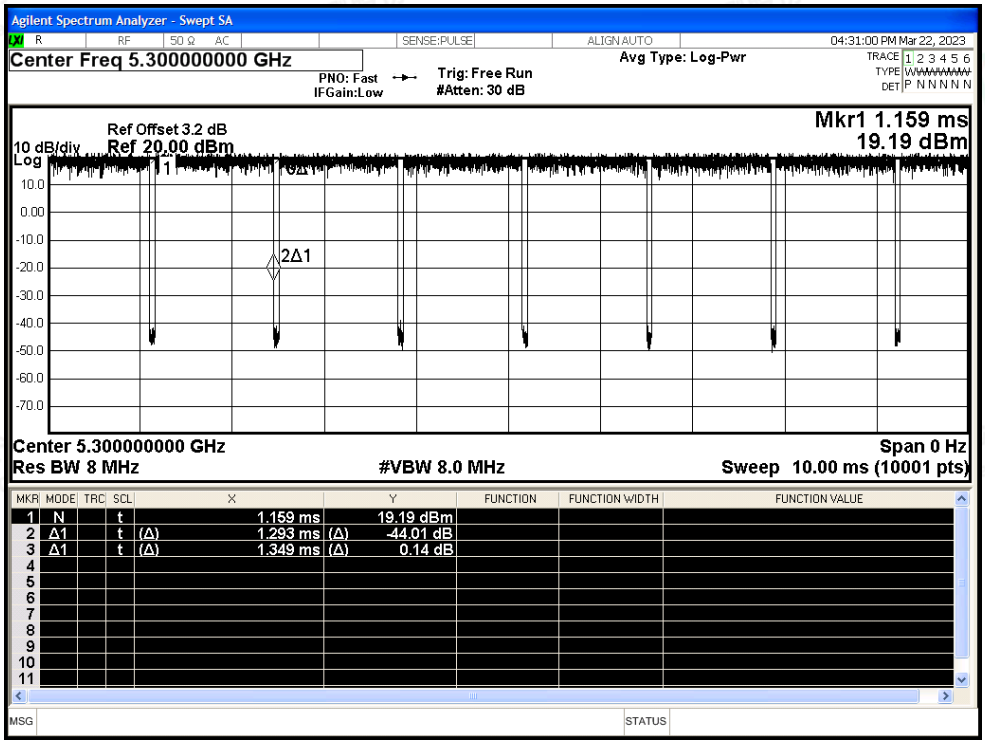
Duty Cycle NVNT a 5320MHz Ant0



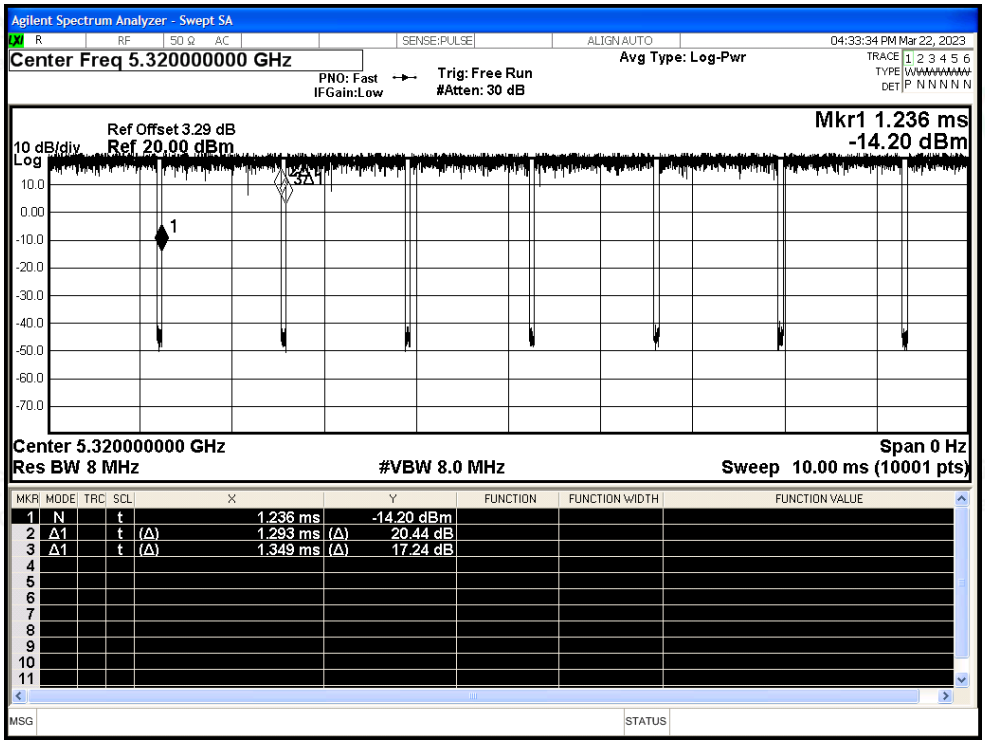
Duty Cycle NVNT n20 5260MHz Ant0



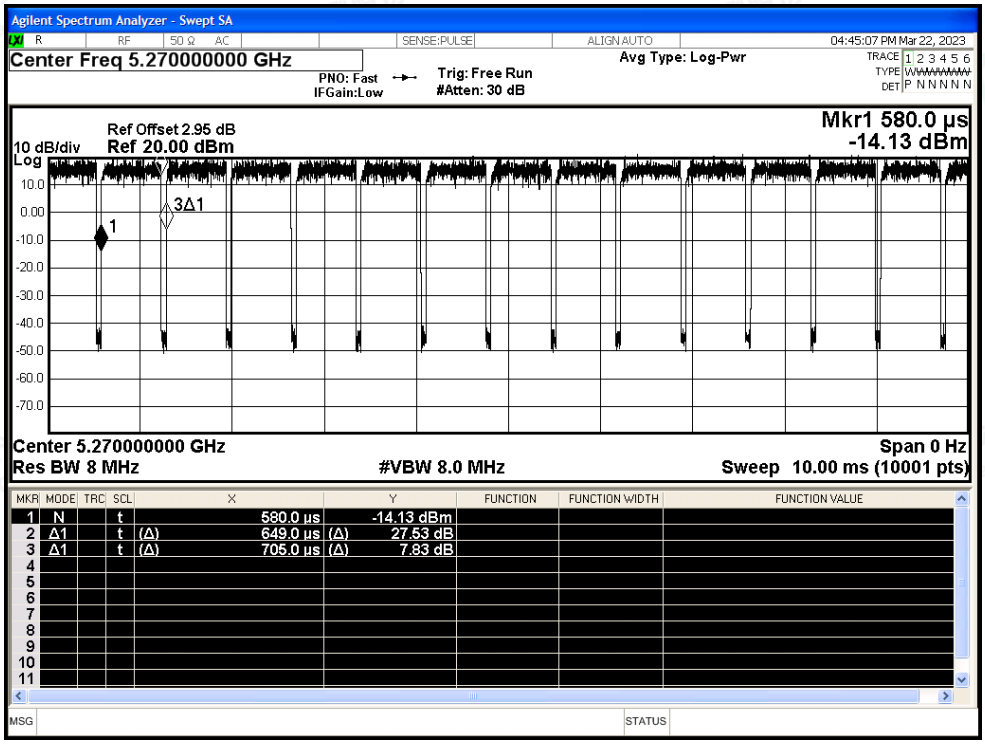
Duty Cycle NVNT n20 5300MHz Ant0



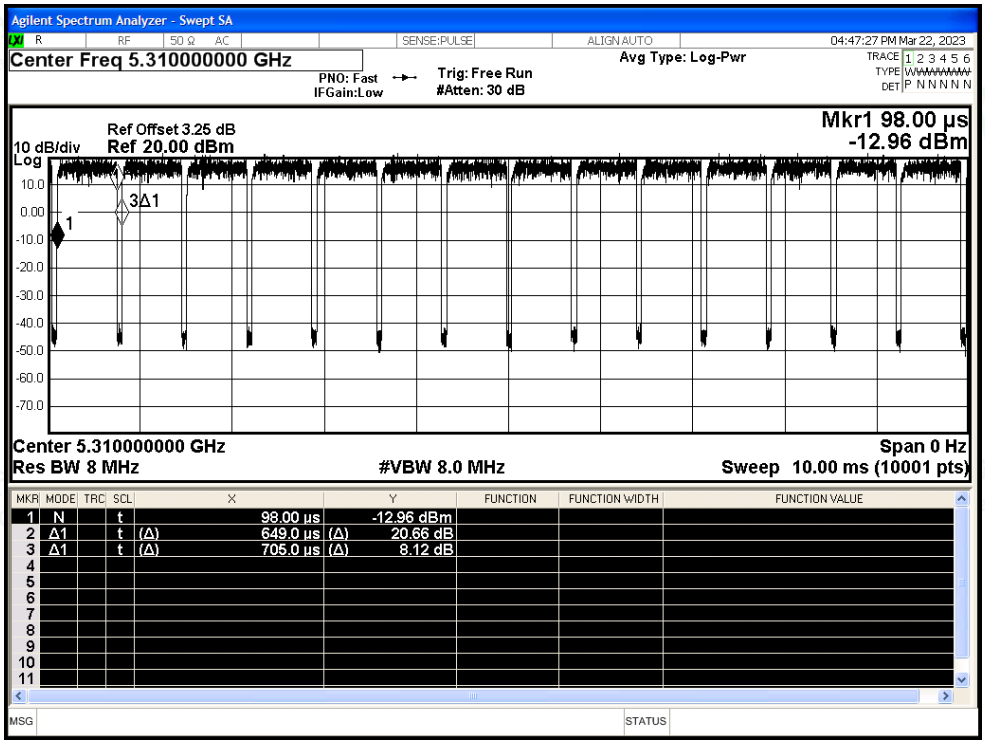
Duty Cycle NVNT n20 5320MHz Ant0



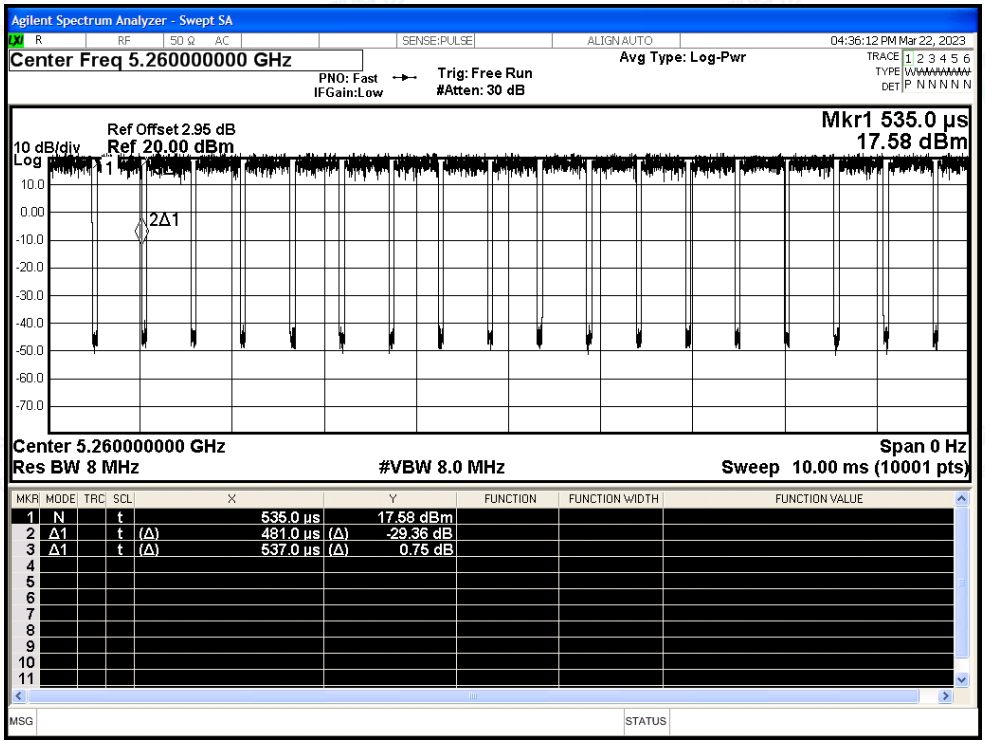
Duty Cycle NVNT n40 5270MHz Ant0



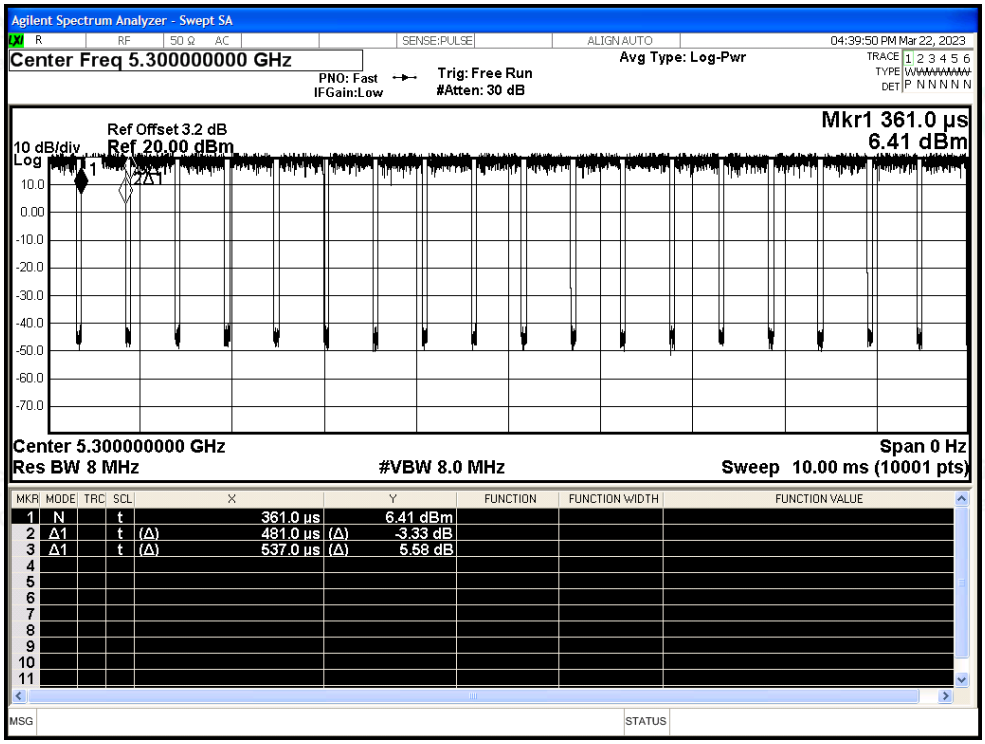
Duty Cycle NVNT n40 5310MHz Ant0



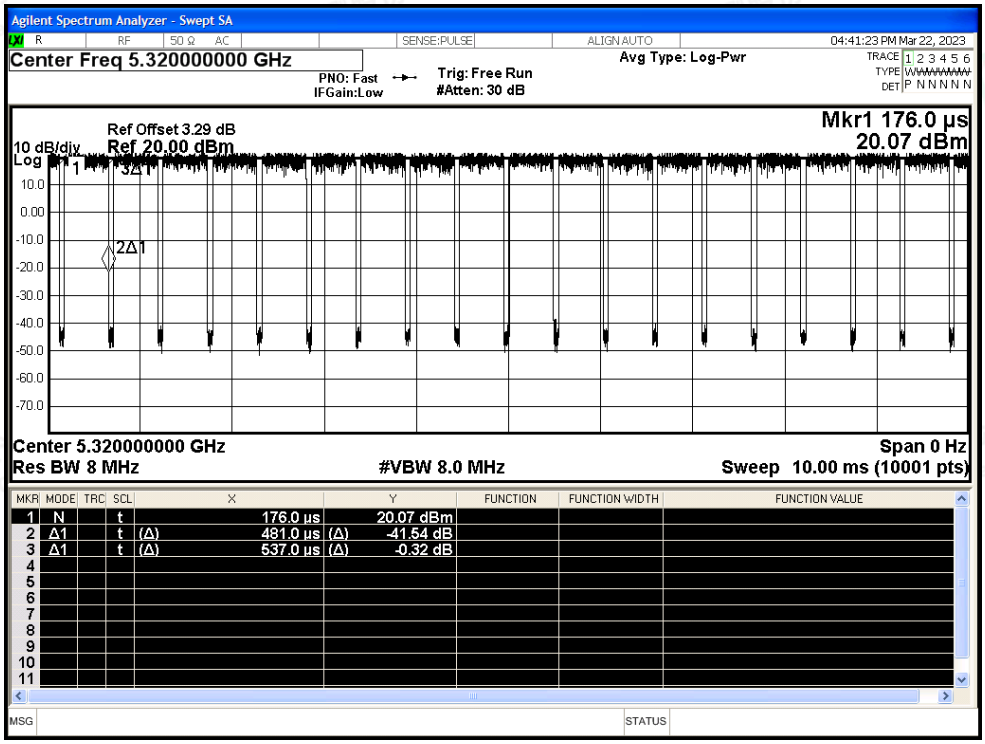
Duty Cycle NVNT ac20 5260MHz Ant0



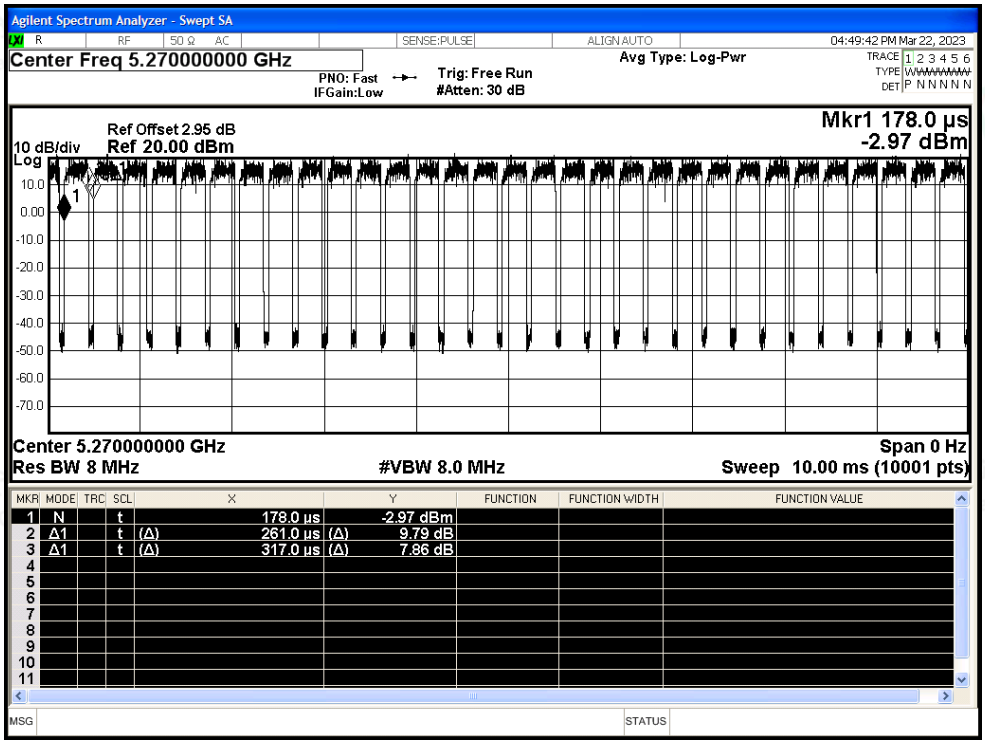
Duty Cycle NVNT ac20 5300MHz Ant0



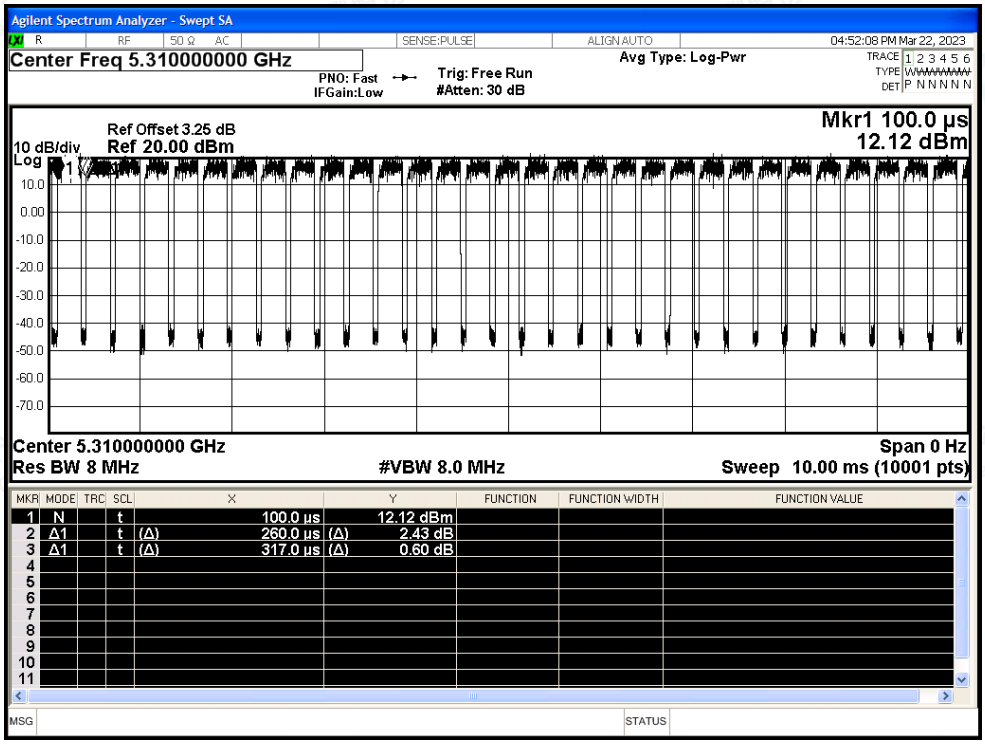
Duty Cycle NVNT ac20 5320MHz Ant0



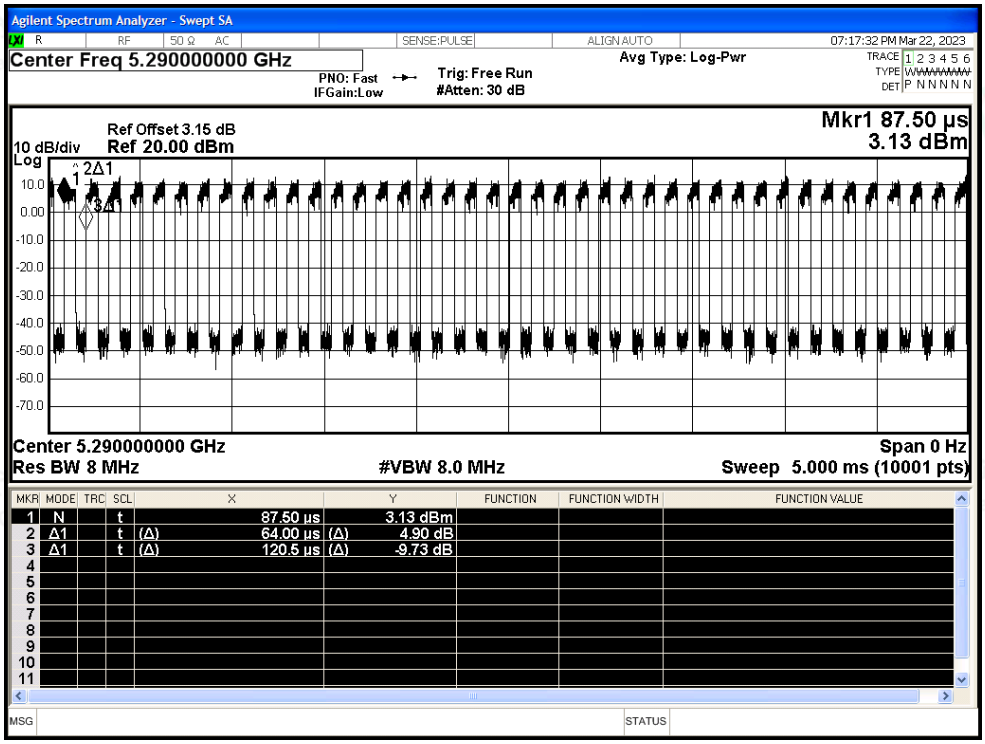
Duty Cycle NVNT ac40 5270MHz Ant0



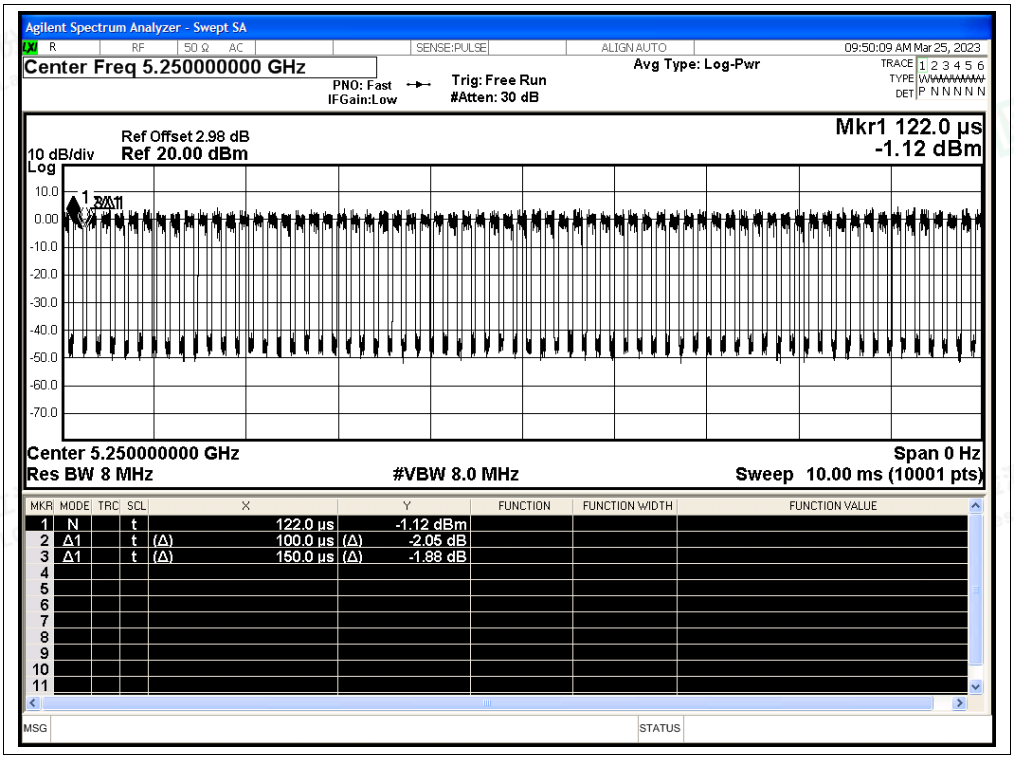
Duty Cycle NVNT ac40 5310MHz Ant0



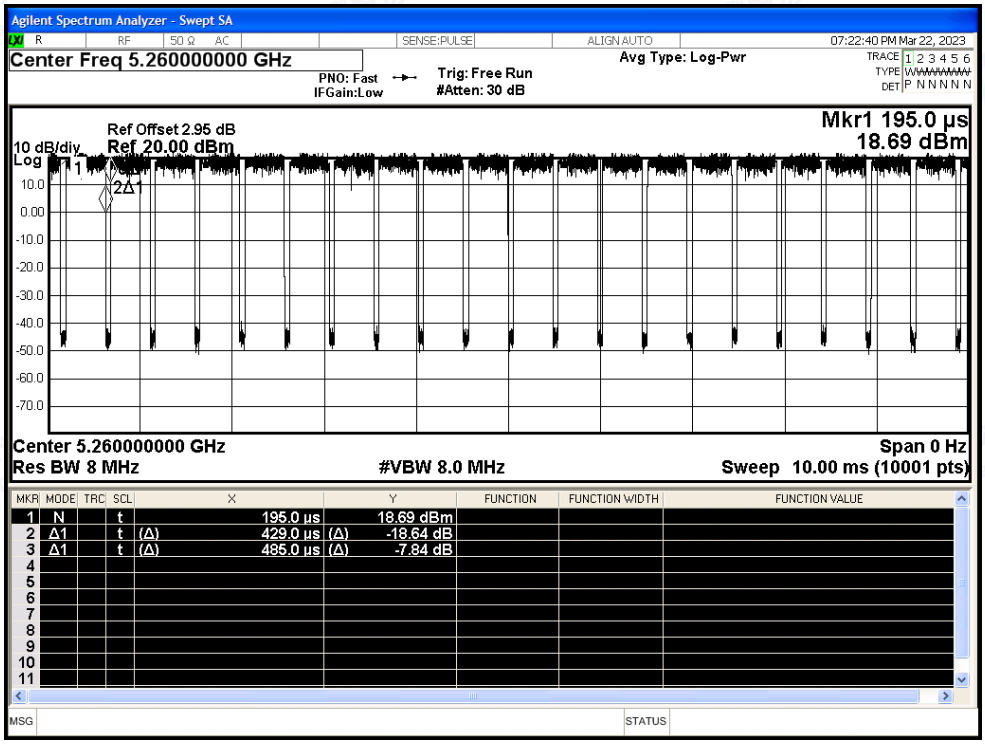
Duty Cycle NVNT ac80 5290MHz Ant0



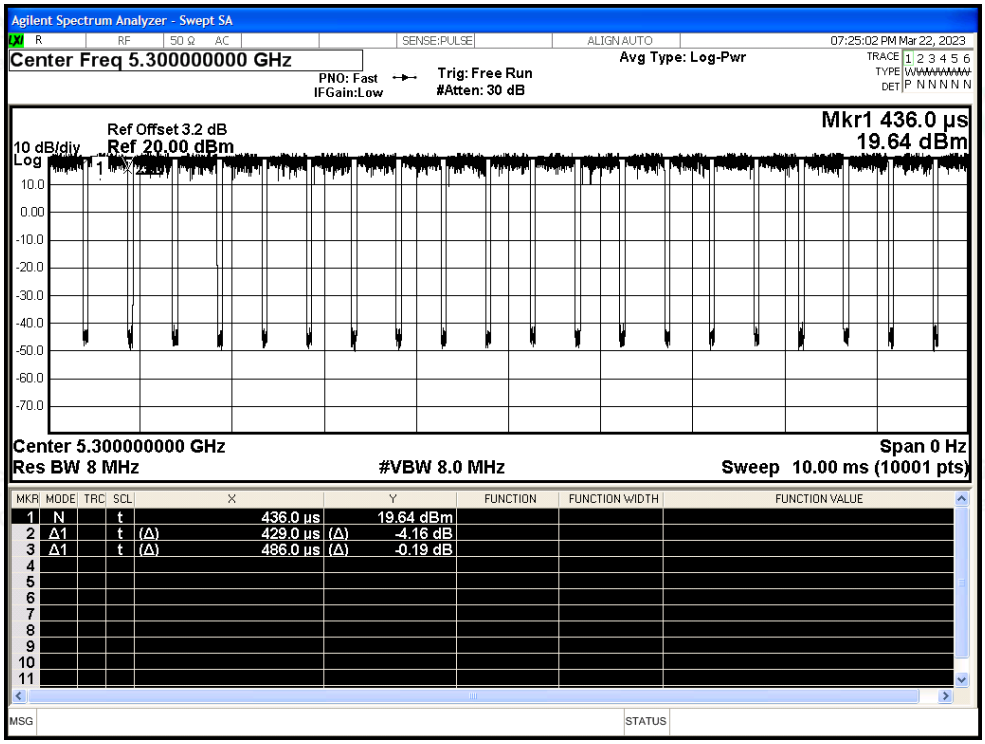
Duty Cycle NVNT ac160 5250MHz Ant0


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
09:50:09 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 122.0 µs
-1.12 dBm
Center 5.250000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 10.00 ms (10001 pts)
1 N 1 t 122.0 µs -1.12 dBm
2 Δ1 t (Δ) 100.0 µs (Δ) -2.05 dB
3 Δ1 t (Δ) 150.0 µs (Δ) -1.88 dB

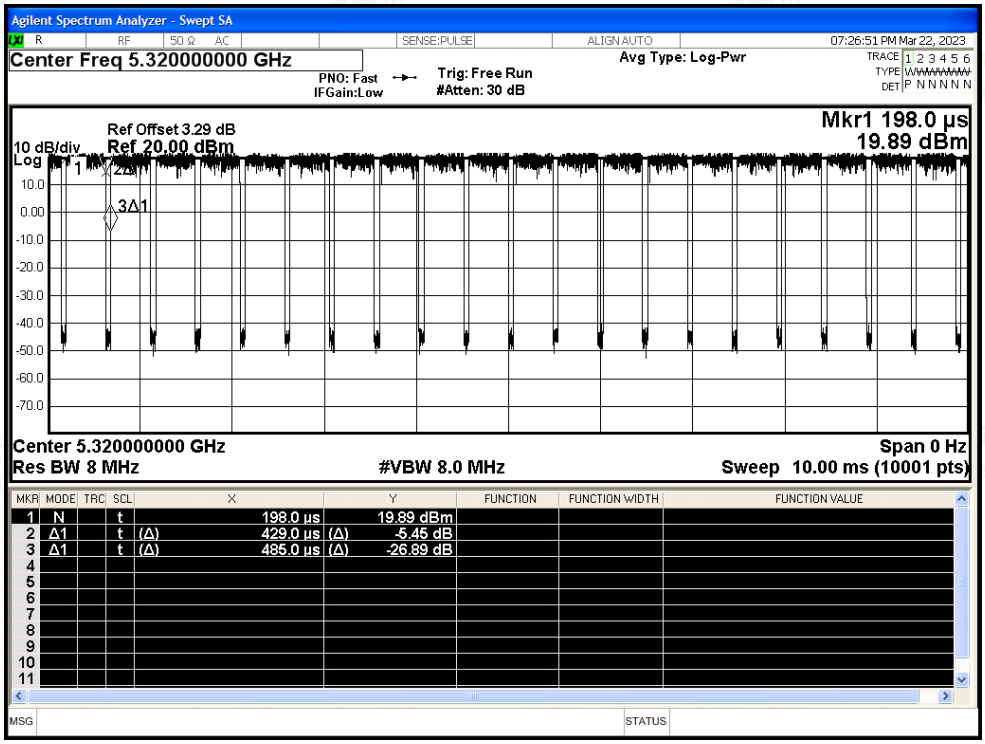
Duty Cycle NVNT ax20 5260MHz Ant0



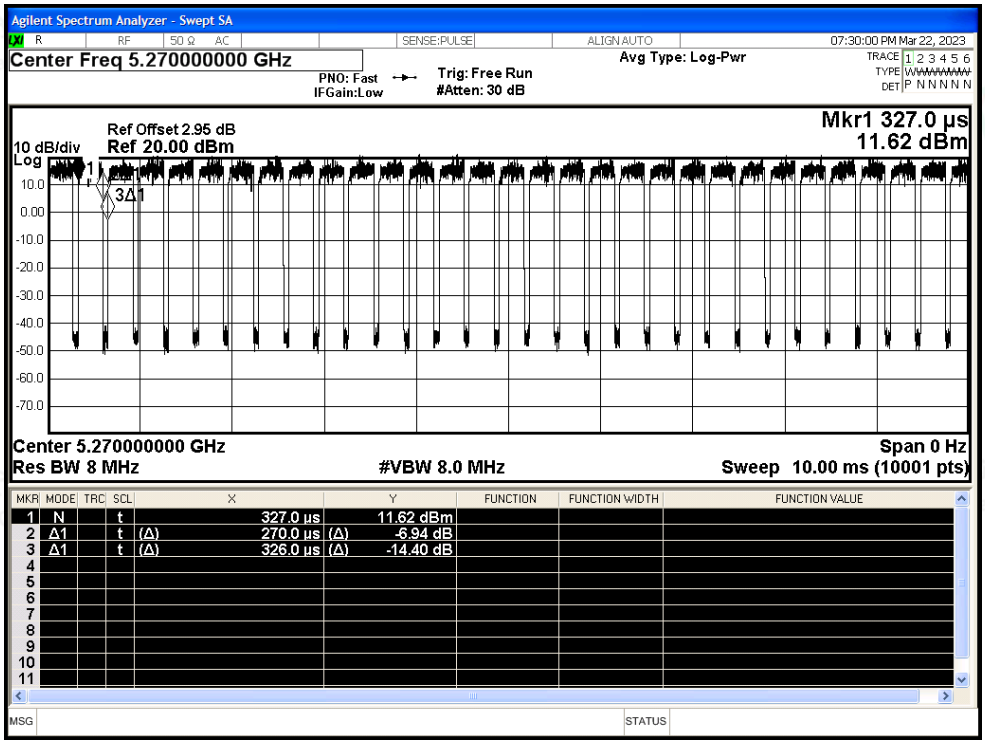
Duty Cycle NVNT ax20 5300MHz Ant0



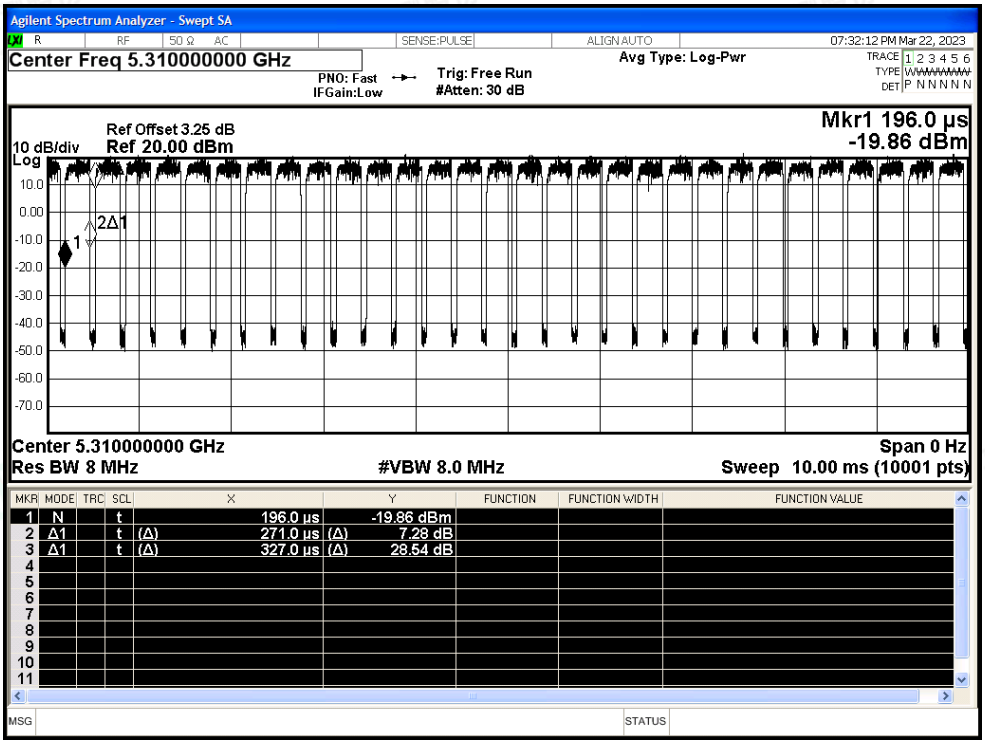
Duty Cycle NVNT ax20 5320MHz Ant0



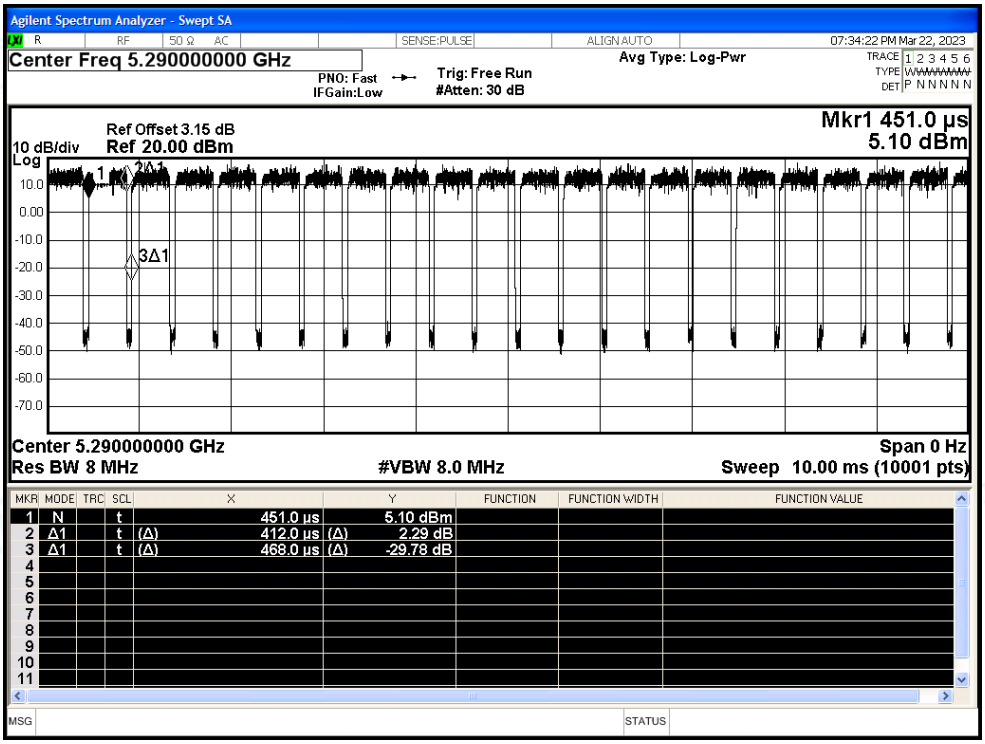
Duty Cycle NVNT ax40 5270MHz Ant0



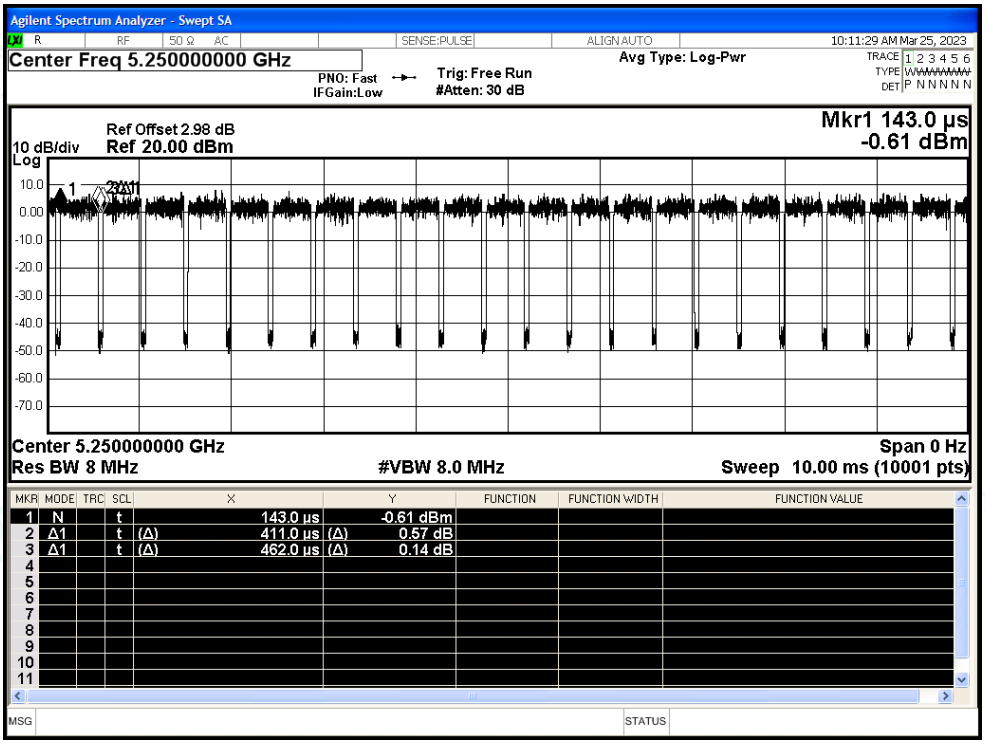
Duty Cycle NVNT ax40 5310MHz Ant0



Duty Cycle NVNT ax80 5290MHz Ant0



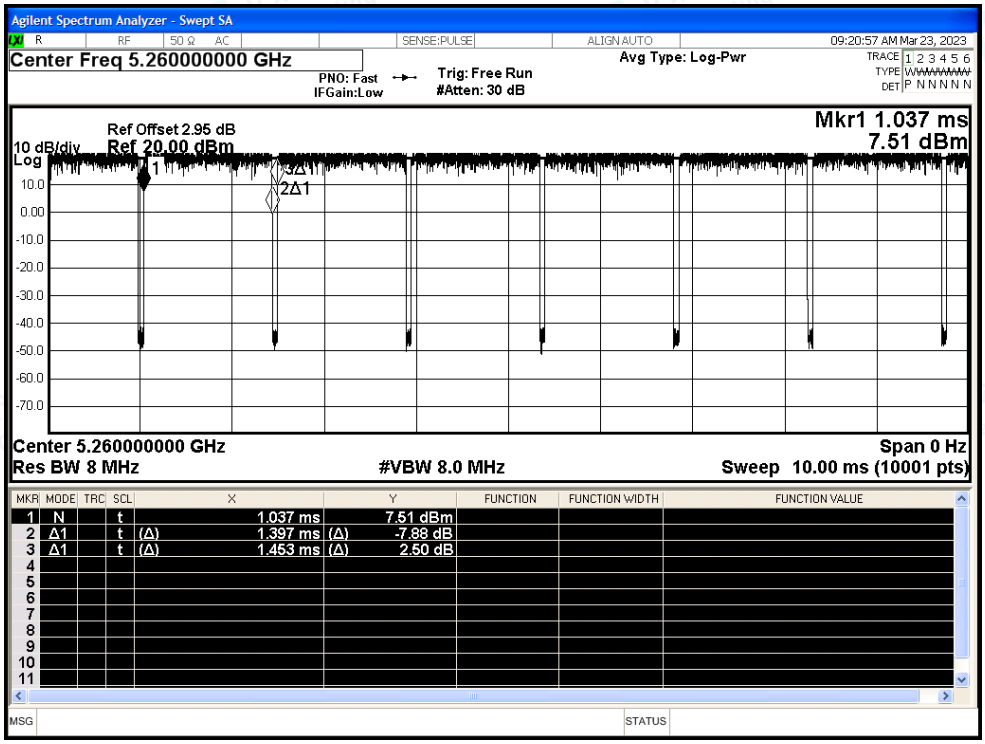
Duty Cycle NVNT ax160 5250MHz Ant0



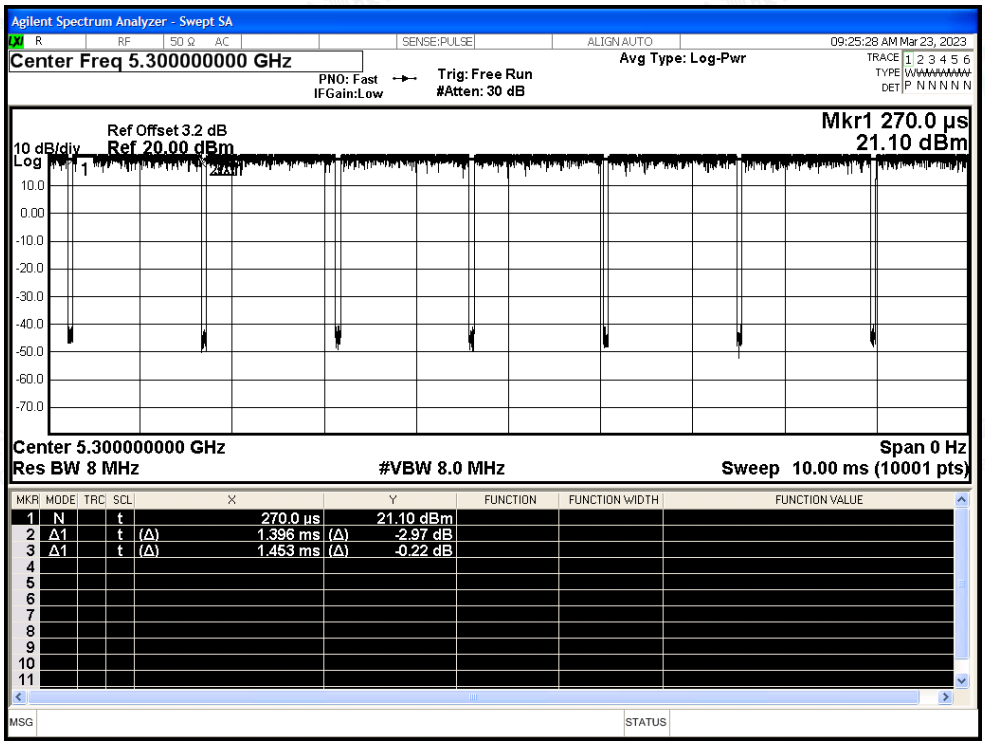
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	96.15	0.17	0.72
NVNT	a	5300	Ant1	96.08	0.17	0.72
NVNT	a	5320	Ant1	96.15	0.17	0.72
NVNT	n20	5260	Ant1	95.89	0.18	0.76
NVNT	n20	5300	Ant1	95.9	0.18	0.76
NVNT	n20	5320	Ant1	95.9	0.18	0.76
NVNT	n40	5270	Ant1	92.06	0.36	1.54
NVNT	n40	5310	Ant1	91.91	0.37	1.54
NVNT	ac20	5260	Ant1	89.57	0.48	2.08
NVNT	ac20	5300	Ant1	89.57	0.48	2.08
NVNT	ac20	5320	Ant1	89.57	0.48	2.08
NVNT	ac40	5270	Ant1	82.33	0.84	3.83
NVNT	ac40	5310	Ant1	82.33	0.84	3.83
NVNT	ac80	5290	Ant1	72.2	1.41	6.76
NVNT	ac160	5250	Ant1	66.23	1.79	10
NVNT	ax20	5260	Ant1	88.27	0.54	2.33
NVNT	ax20	5300	Ant1	88.48	0.53	2.33
NVNT	ax20	5320	Ant1	88.27	0.54	2.33
NVNT	ax40	5270	Ant1	88.17	0.55	2.35
NVNT	ax40	5310	Ant1	88.38	0.54	2.35
NVNT	ax80	5290	Ant1	88.03	0.55	2.43
NVNT	ax160	5250	Ant1	89.18	0.5	2.43

Test Graphs

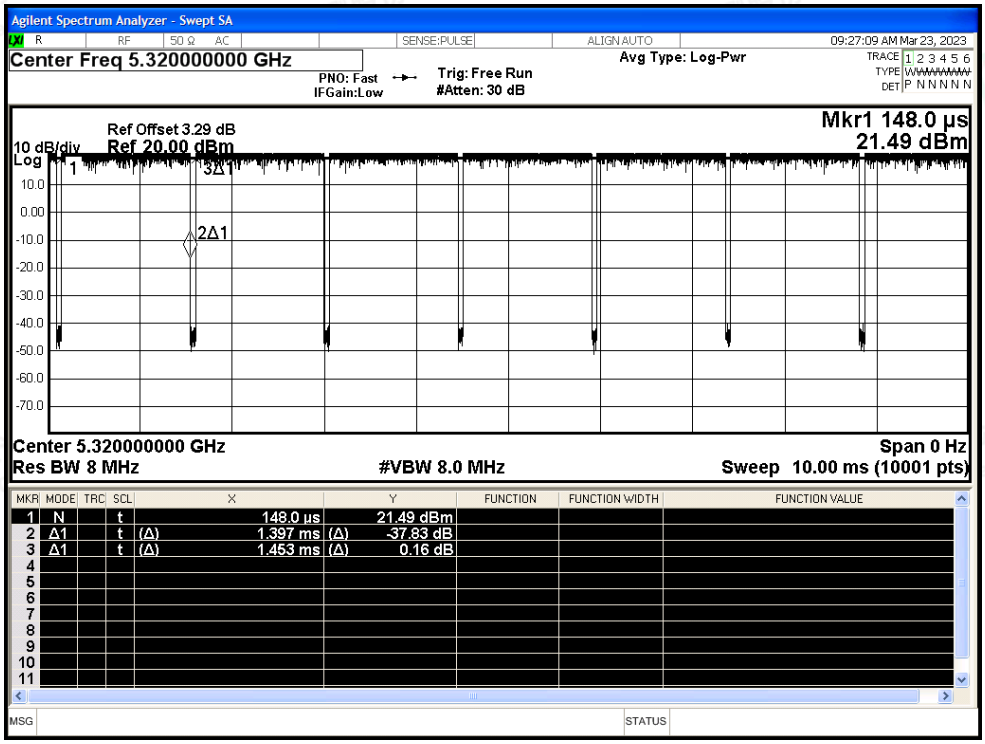
Duty Cycle NVNT a 5260MHz Ant1



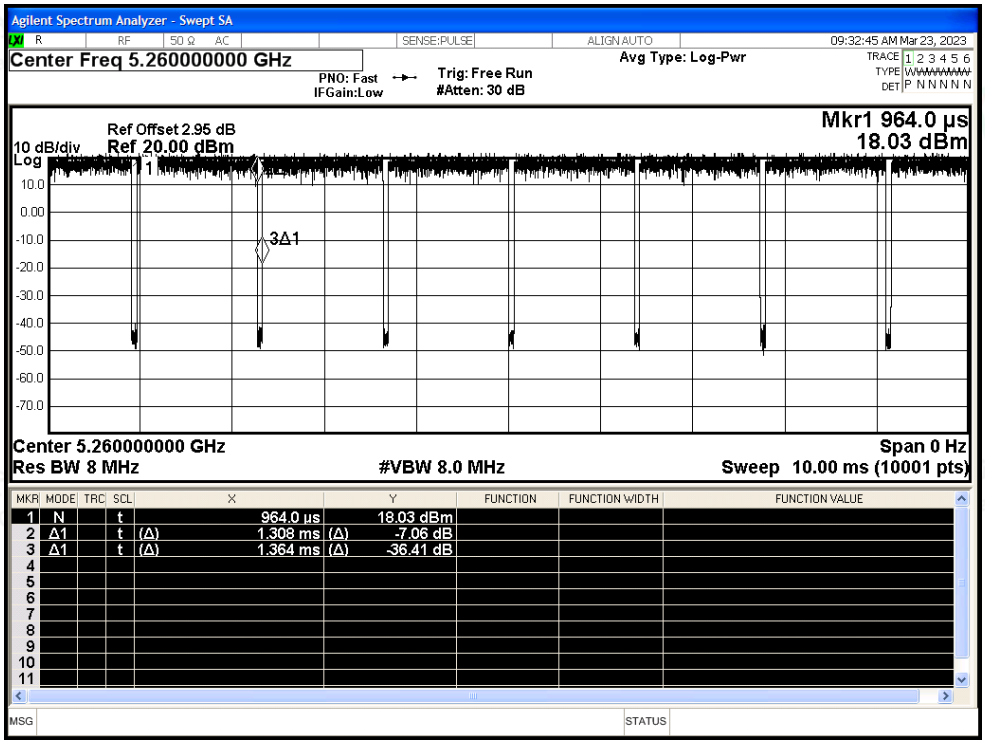
Duty Cycle NVNT a 5300MHz Ant1



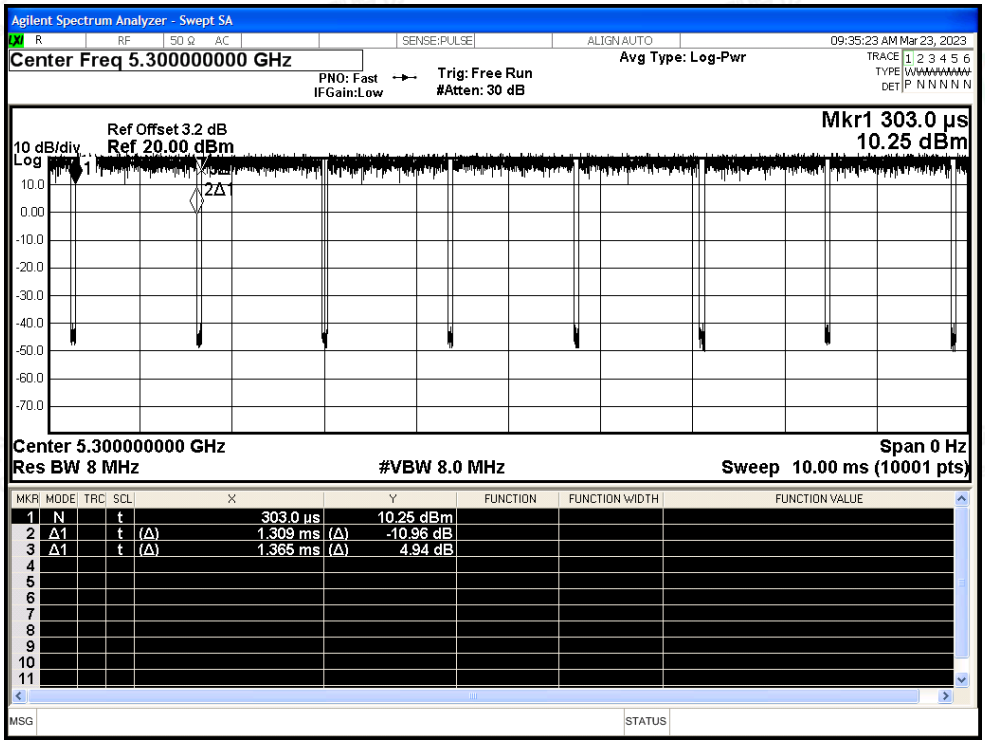
Duty Cycle NVNT a 5320MHz Ant1



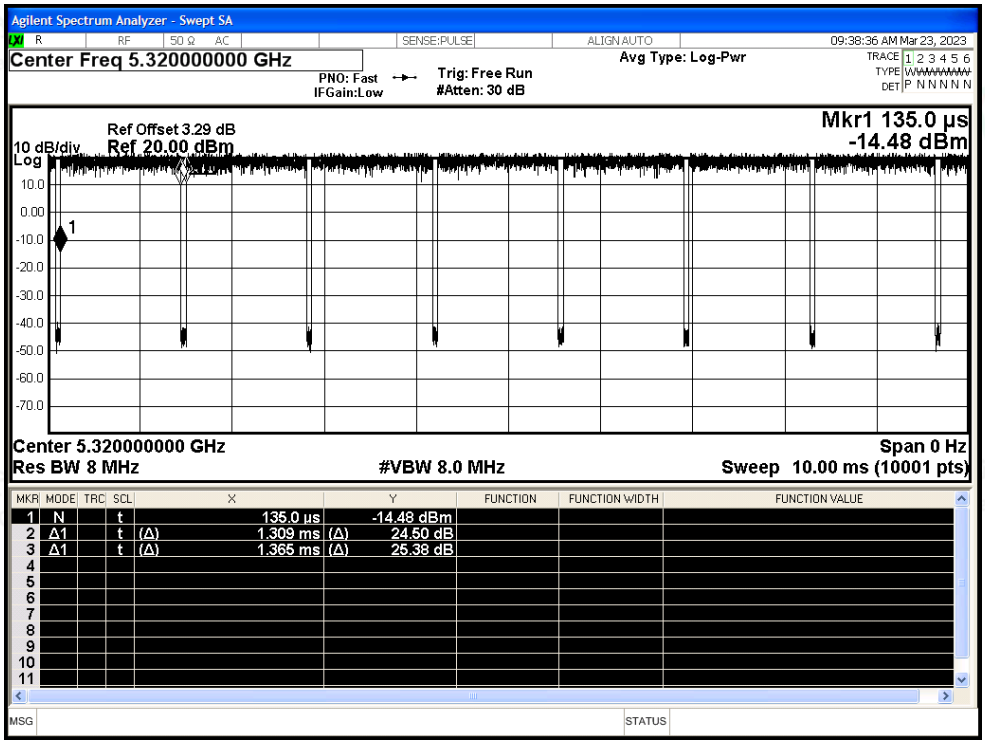
Duty Cycle NVNT n20 5260MHz Ant1



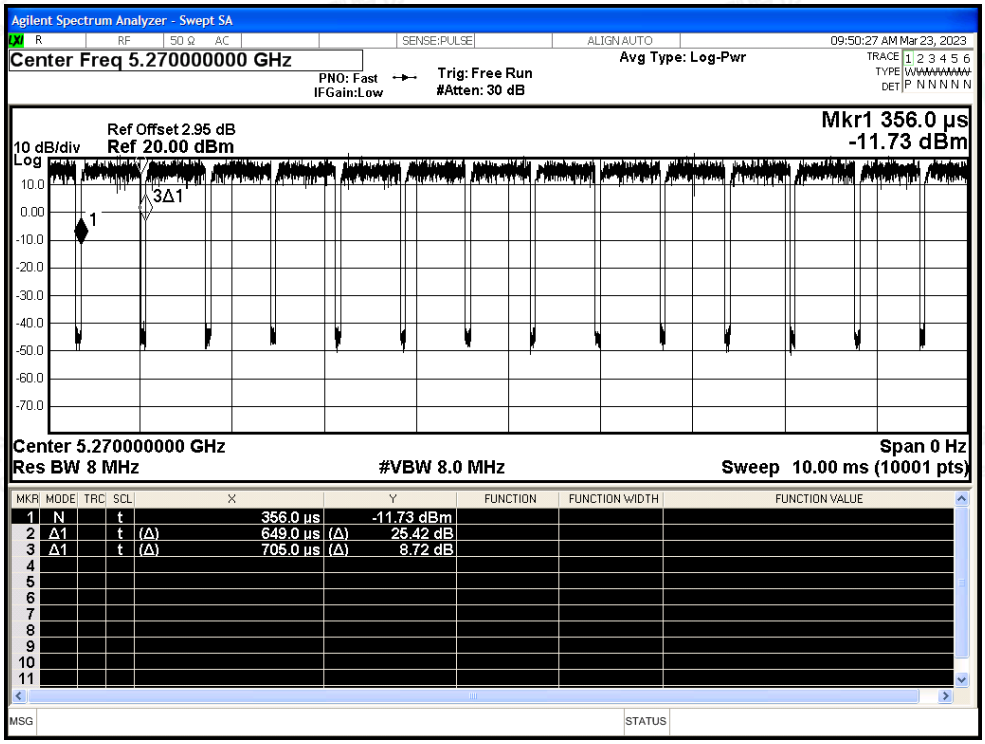
Duty Cycle NVNT n20 5300MHz Ant1



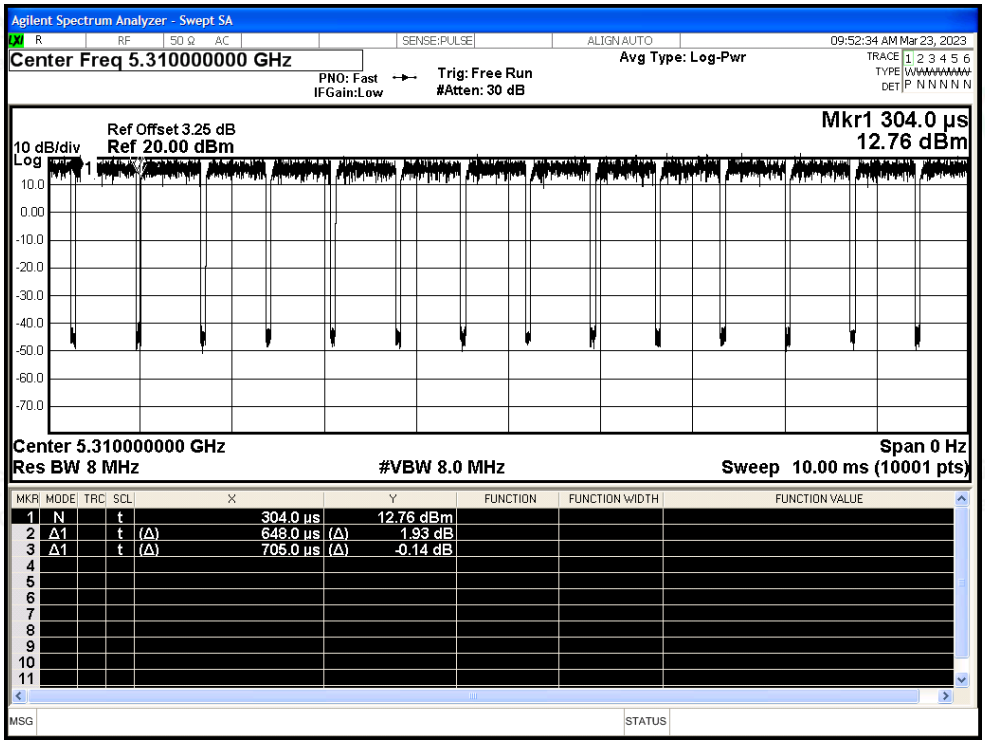
Duty Cycle NVNT n20 5320MHz Ant1



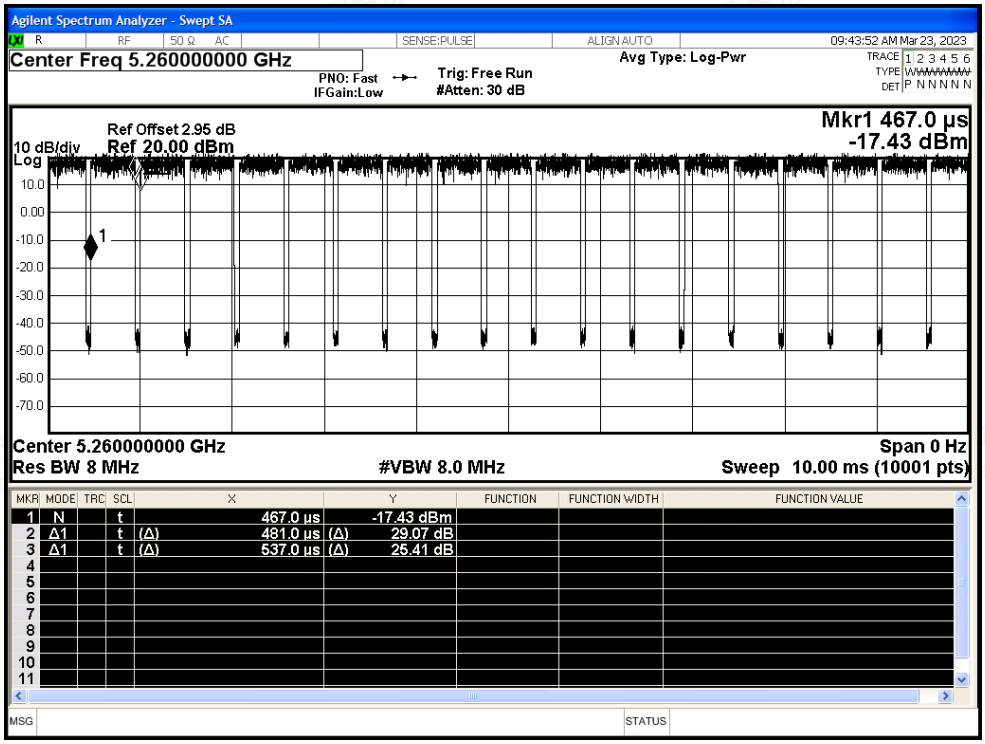
Duty Cycle NVNT n40 5270MHz Ant1



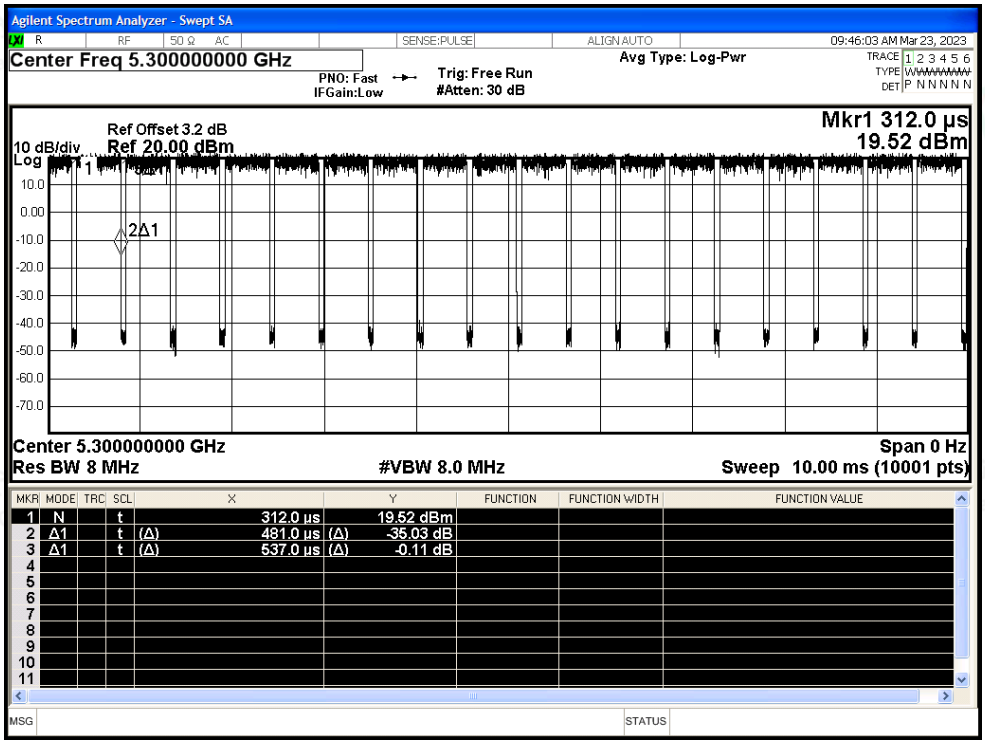
Duty Cycle NVNT n40 5310MHz Ant1



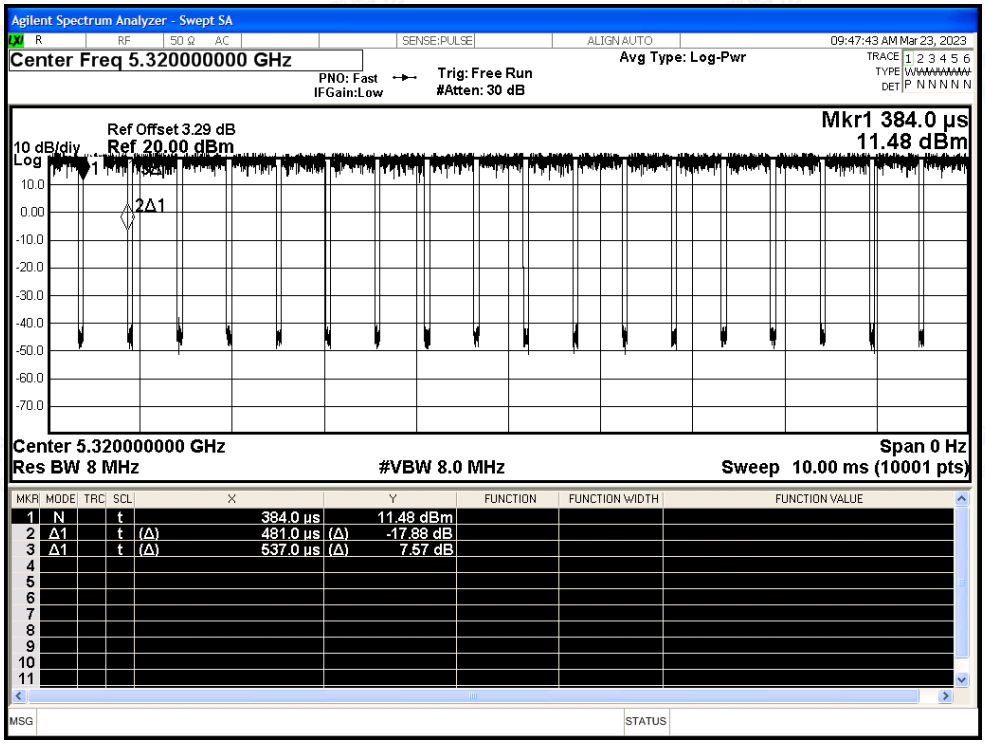
Duty Cycle NVNT ac20 5260MHz Ant1



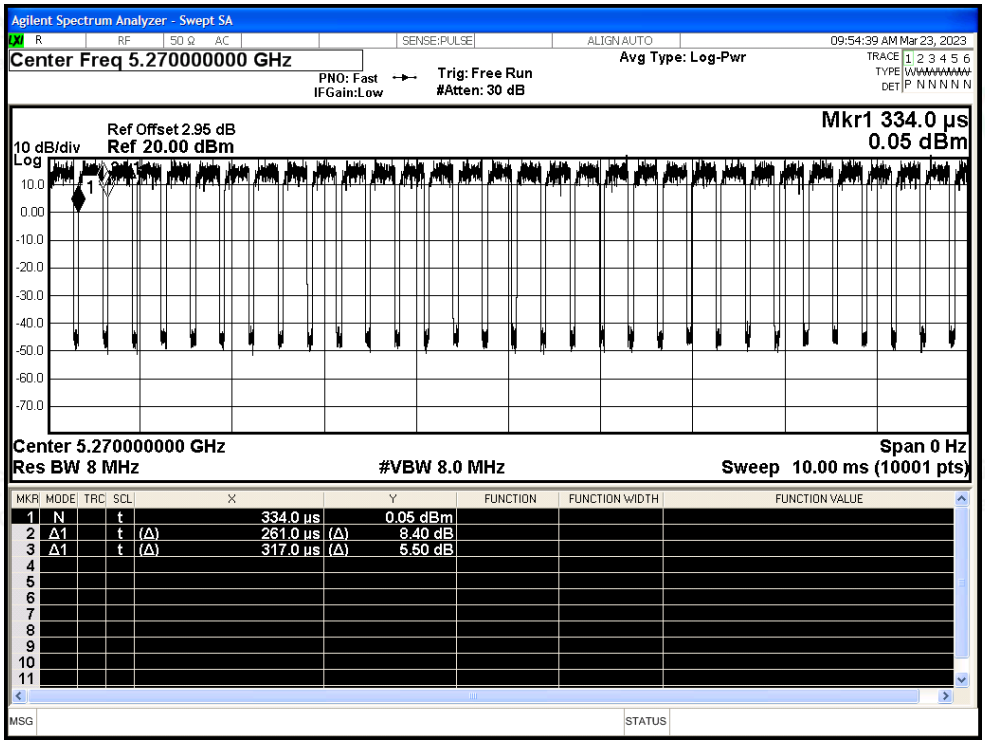
Duty Cycle NVNT ac20 5300MHz Ant1



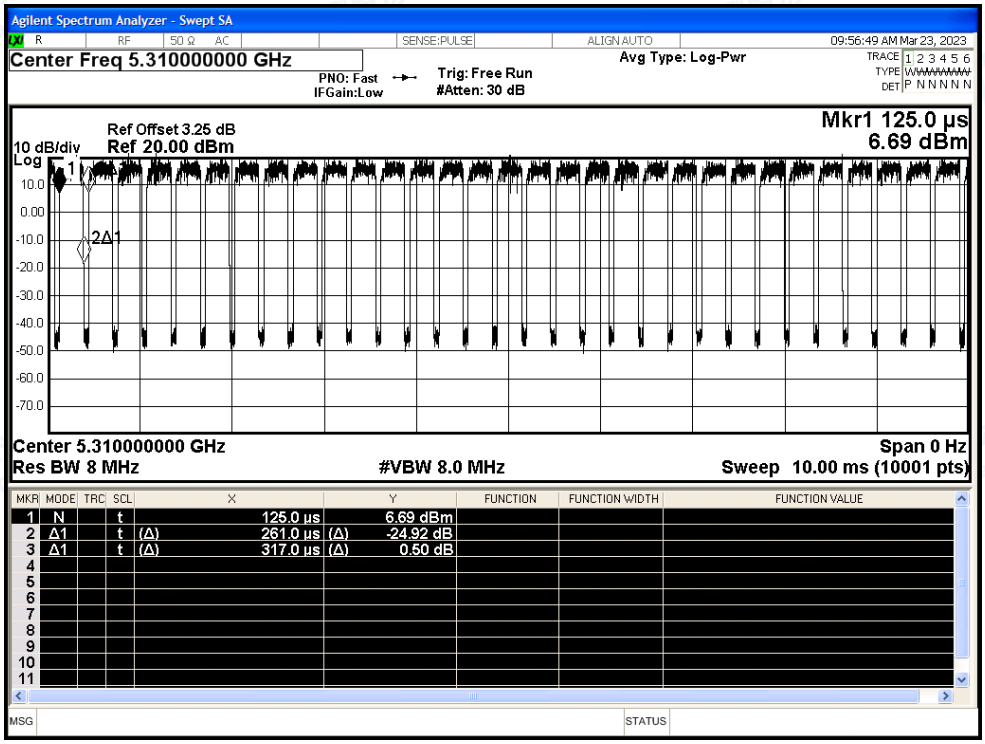
Duty Cycle NVNT ac20 5320MHz Ant1



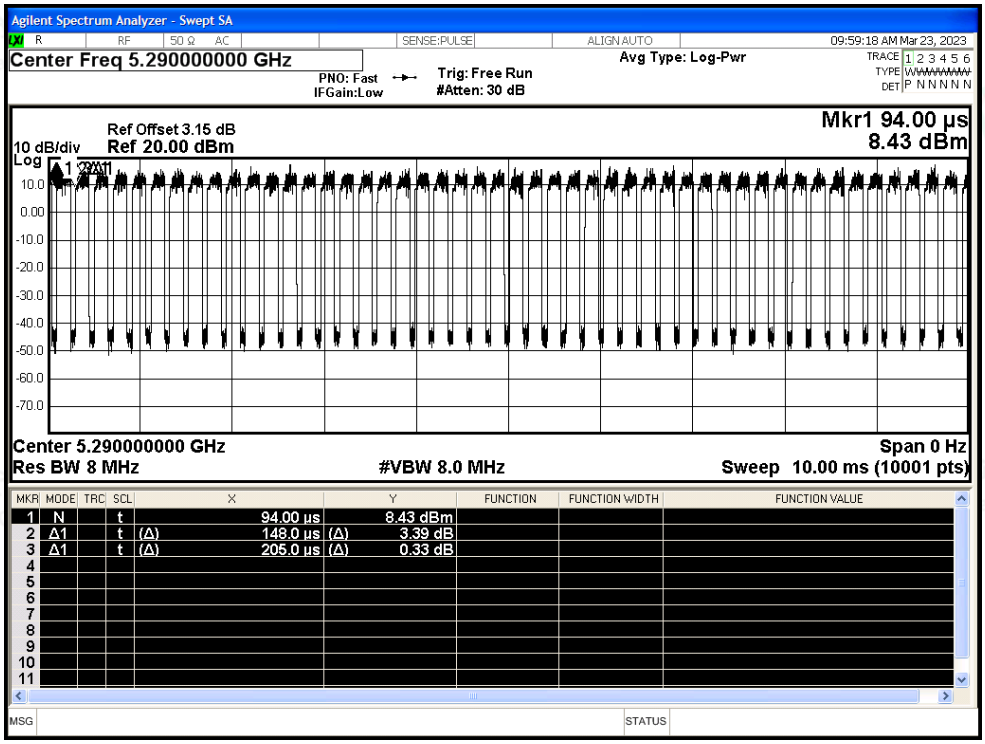
Duty Cycle NVNT ac40 5270MHz Ant1



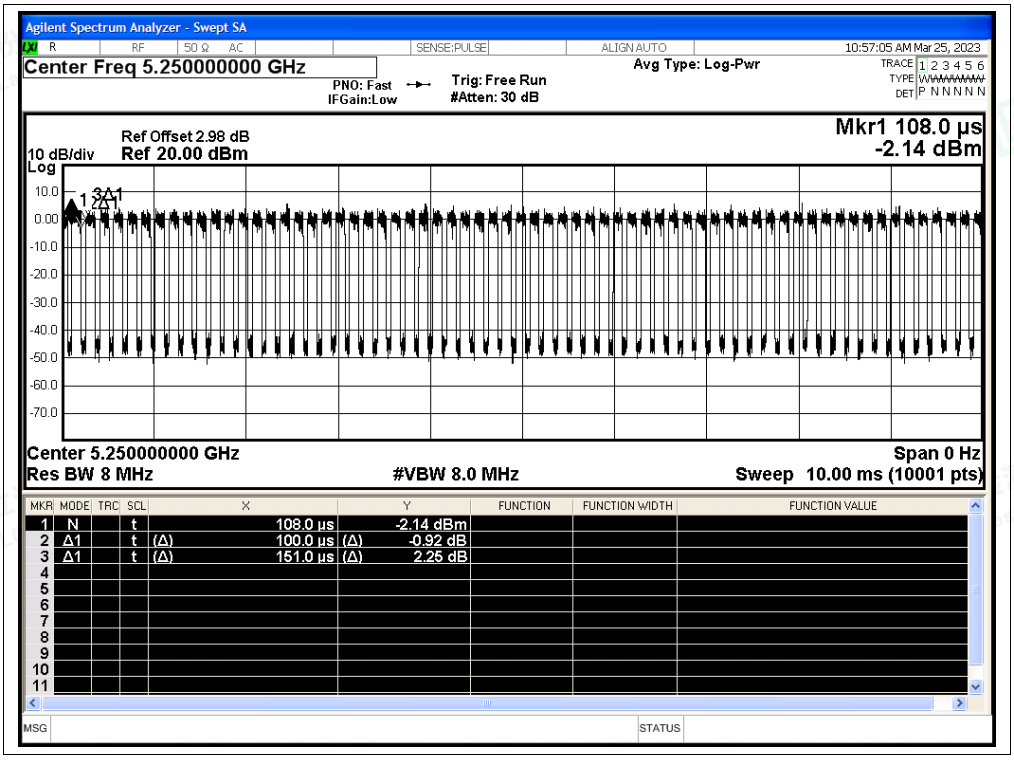
Duty Cycle NVNT ac40 5310MHz Ant1



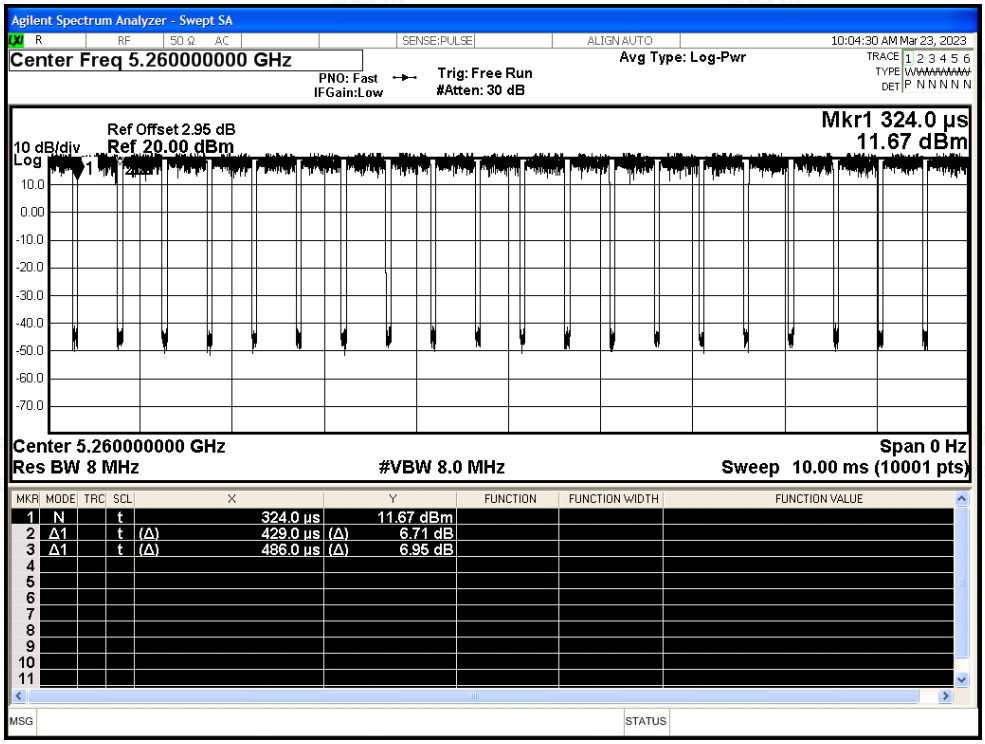
Duty Cycle NVNT ac80 5290MHz Ant1



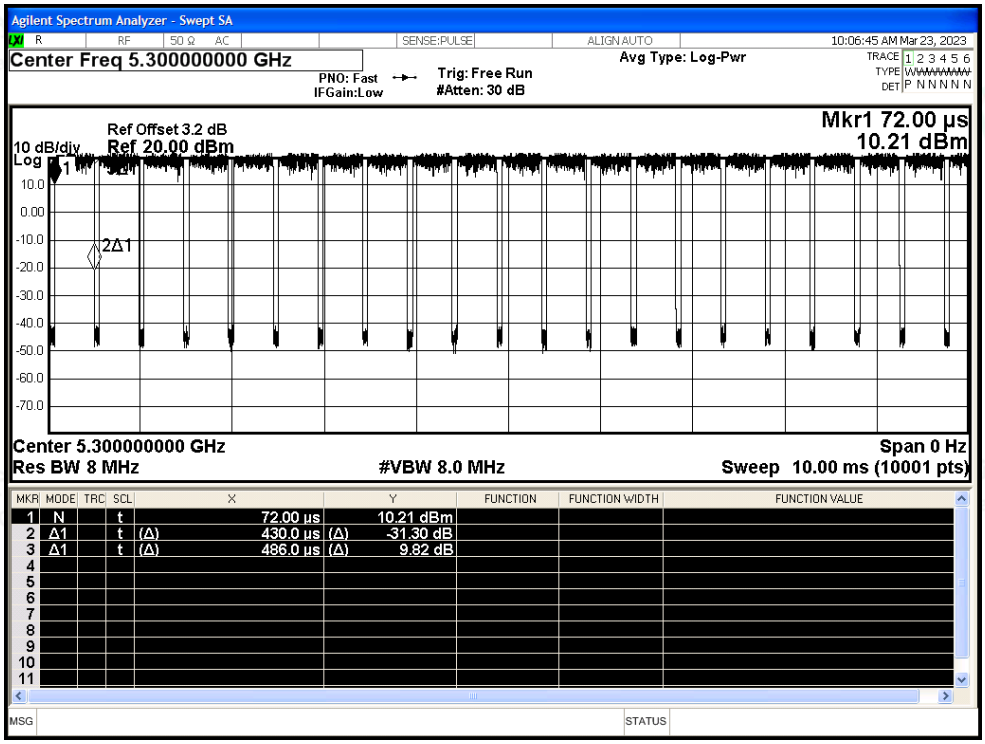
Duty Cycle NVNT ac160 5250MHz Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
10:57:05 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 108.0 µs
-2.14 dBm
Center 5.250000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 10.00 ms (10001 pts)
1 N 1 t 108.0 µs -2.14 dBm
2 Δ1 1 t (Δ) 100.0 µs (Δ) -0.92 dB
3 Δ1 1 t (Δ) 151.0 µs (Δ) 2.25 dB

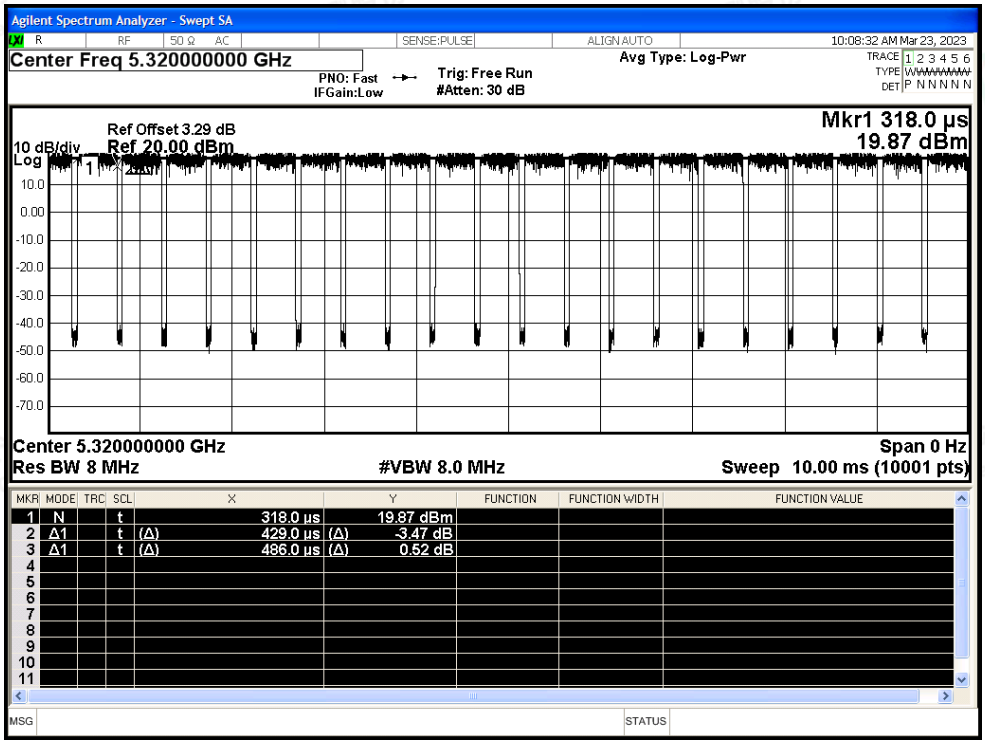
Duty Cycle NVNT ax20 5260MHz Ant1



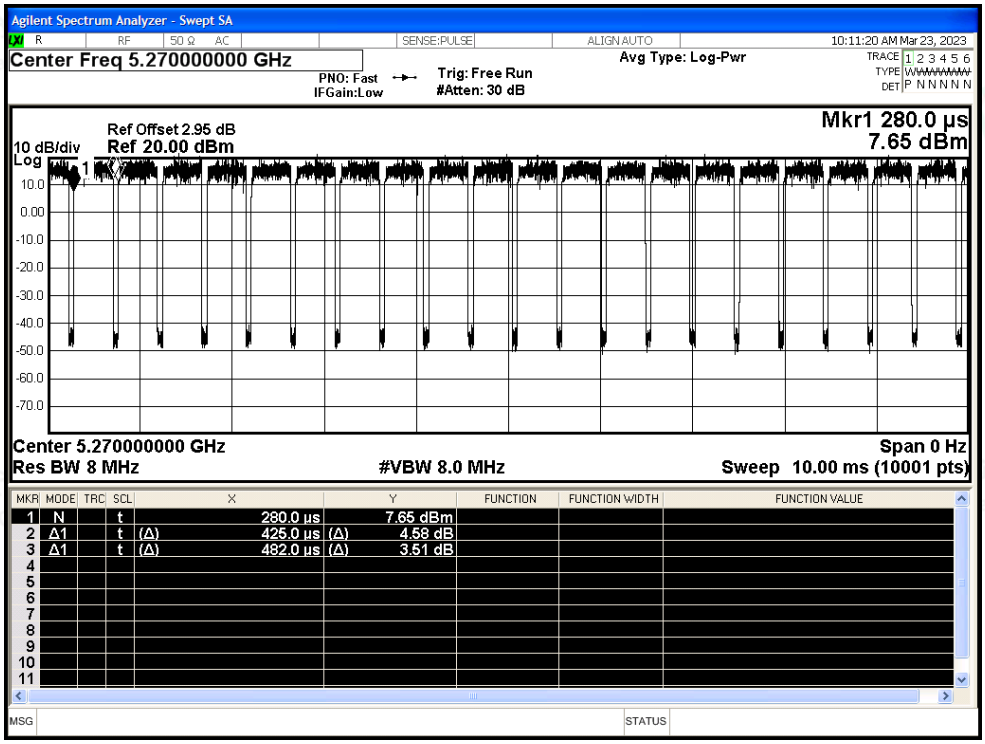
Duty Cycle NVNT ax20 5300MHz Ant1



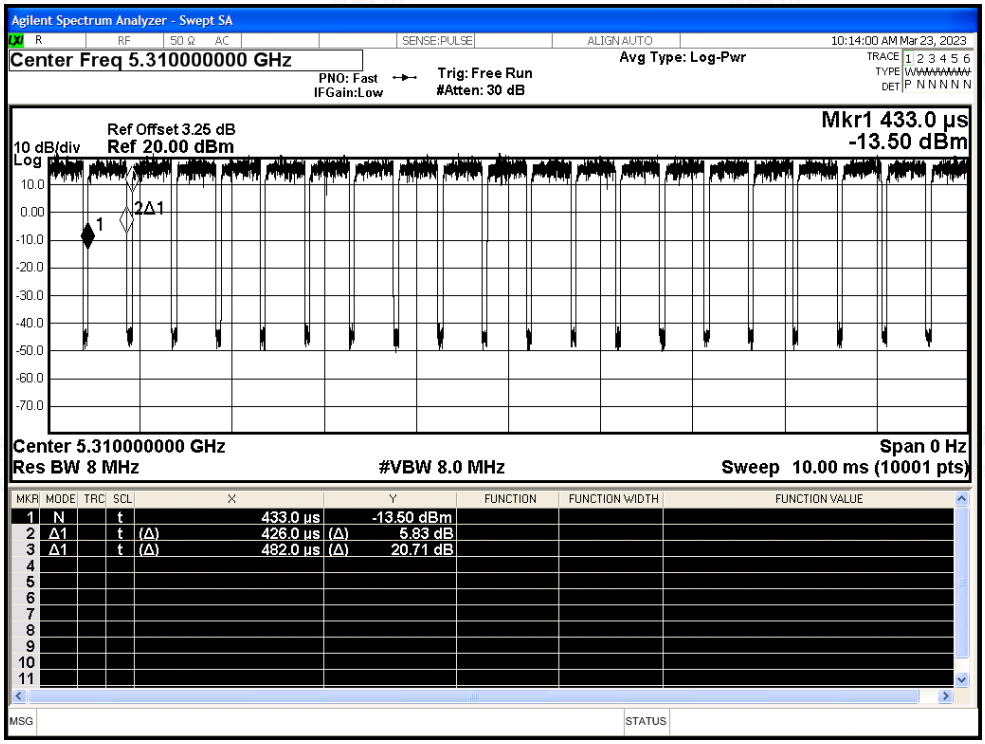
Duty Cycle NVNT ax20 5320MHz Ant1



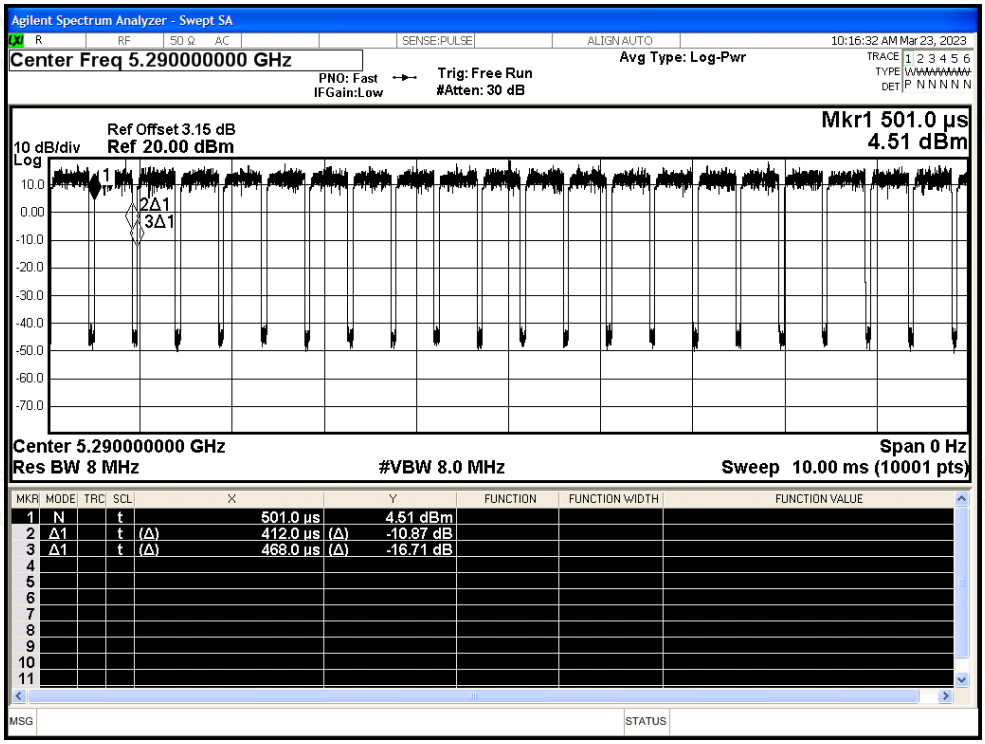
Duty Cycle NVNT ax40 5270MHz Ant1



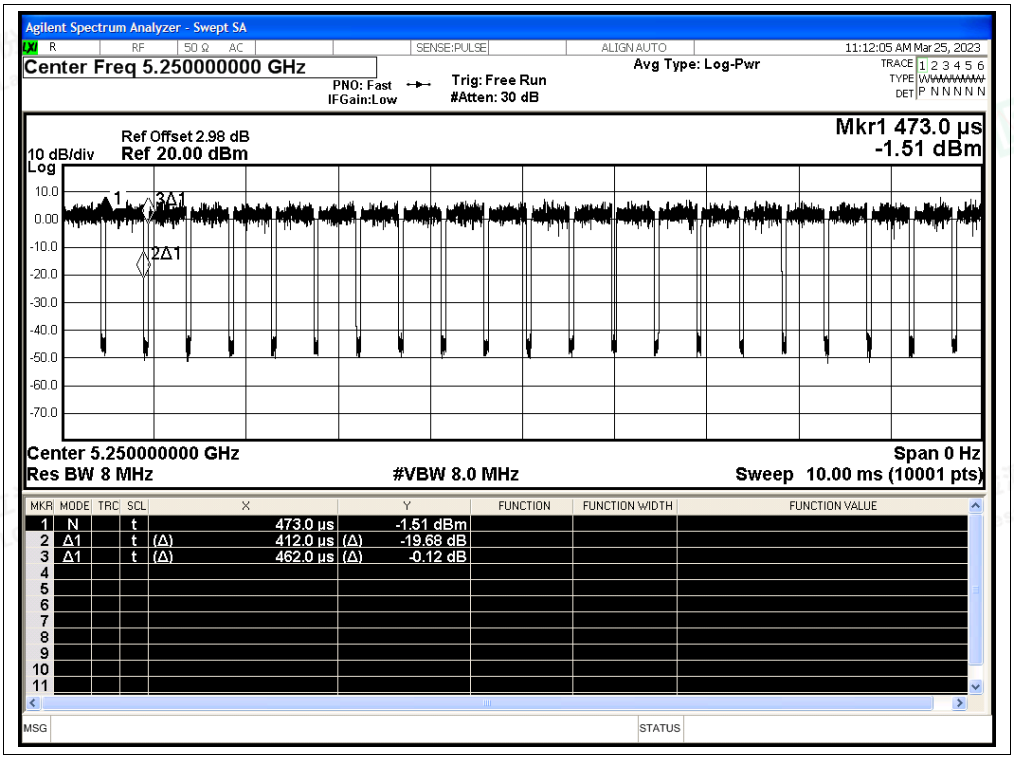
Duty Cycle NVNT ax40 5310MHz Ant1



Duty Cycle NVNT ax80 5290MHz Ant1



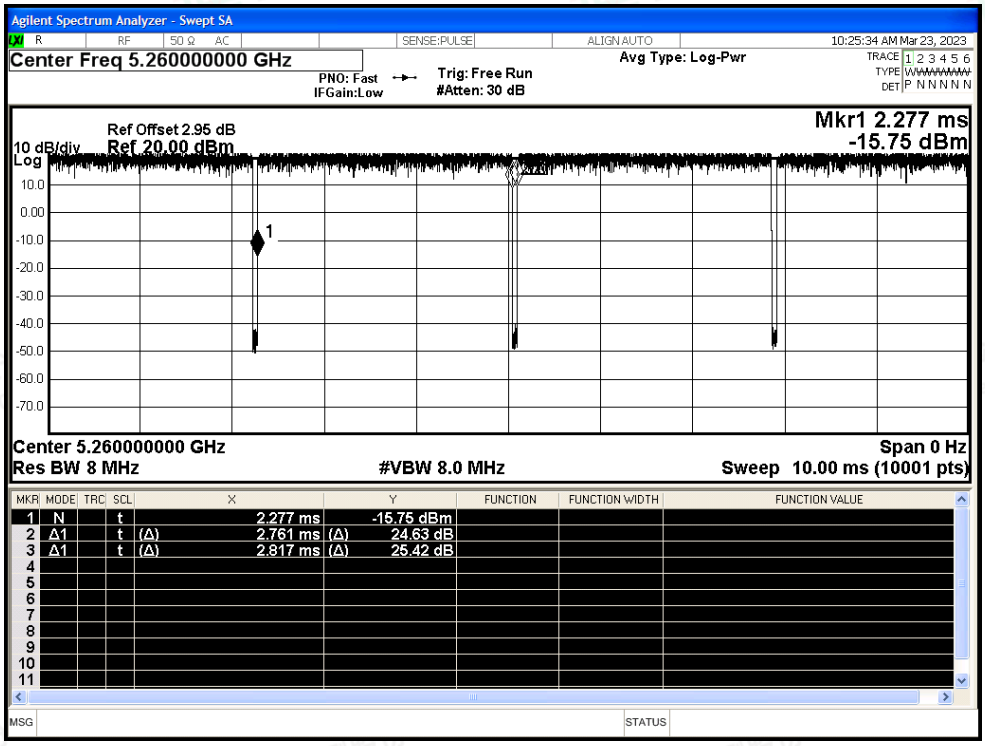
Duty Cycle NVNT ax160 5250MHz Ant1



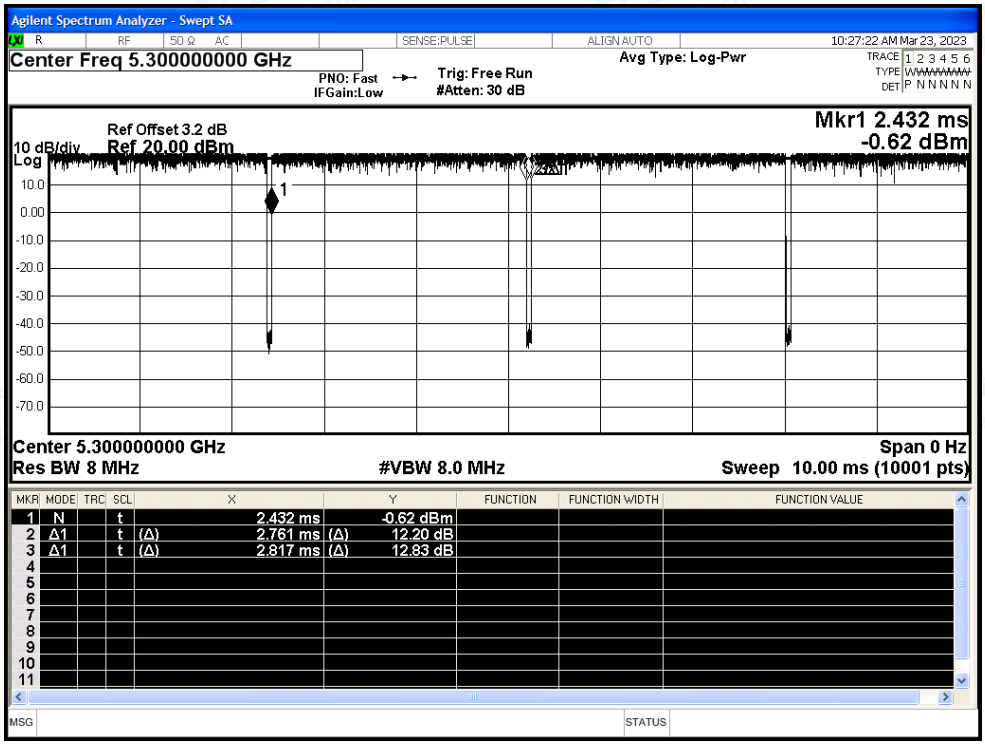
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant2	98.01	0	0.36
NVNT	a	5300	Ant2	98.01	0	0.36
NVNT	a	5320	Ant2	98.01	0	0.36
NVNT	n20	5260	Ant2	95.81	0.19	0.77
NVNT	n20	5300	Ant2	95.81	0.19	0.77
NVNT	n20	5320	Ant2	95.81	0.19	0.77
NVNT	n40	5270	Ant2	92.06	0.36	1.54
NVNT	n40	5310	Ant2	91.91	0.37	1.54
NVNT	ac20	5260	Ant2	89.39	0.49	2.08
NVNT	ac20	5300	Ant2	89.57	0.48	2.08
NVNT	ac20	5320	Ant2	89.57	0.48	2.08
NVNT	ac40	5270	Ant2	82.33	0.84	3.83
NVNT	ac40	5310	Ant2	82.33	0.84	3.83
NVNT	ac80	5290	Ant2	72.2	1.41	6.76
NVNT	ac160	5250	Ant2	66.89	1.75	9.9
NVNT	ax20	5260	Ant2	88.48	0.53	2.33
NVNT	ax20	5300	Ant2	88.45	0.53	2.33
NVNT	ax20	5320	Ant2	88.48	0.53	2.33
NVNT	ax40	5270	Ant2	88.36	0.54	2.35
NVNT	ax40	5310	Ant2	88.36	0.54	2.35
NVNT	ax80	5290	Ant2	87.85	0.56	2.43
NVNT	ax160	5250	Ant2	89.18	0.5	2.43

Test Graphs

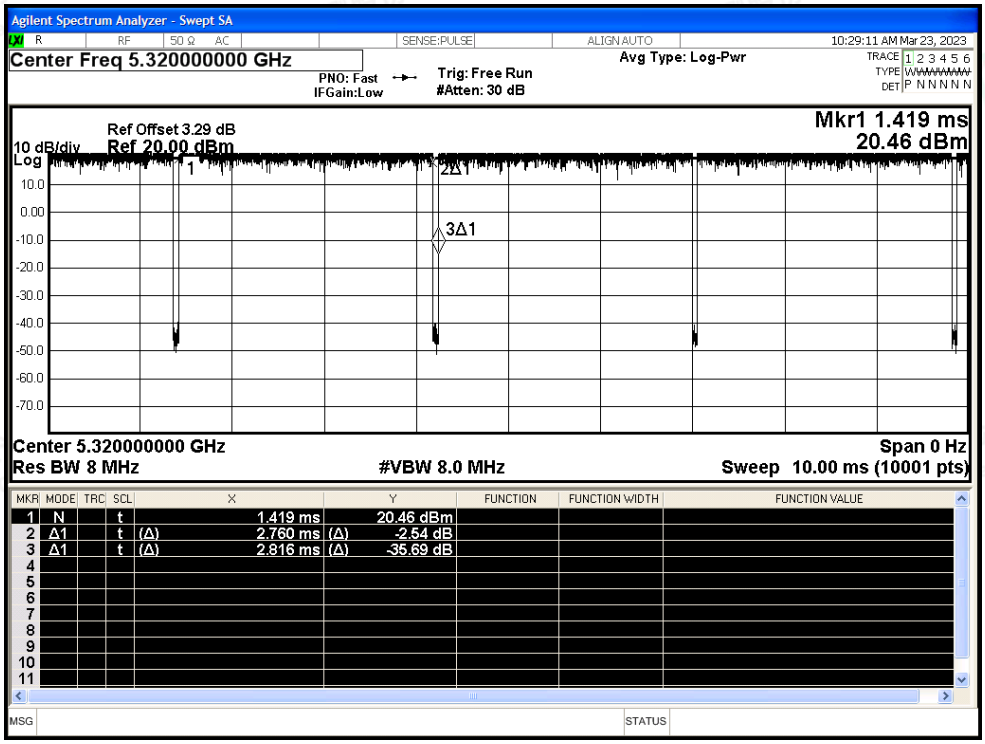
Duty Cycle NVNT a 5260MHz Ant2



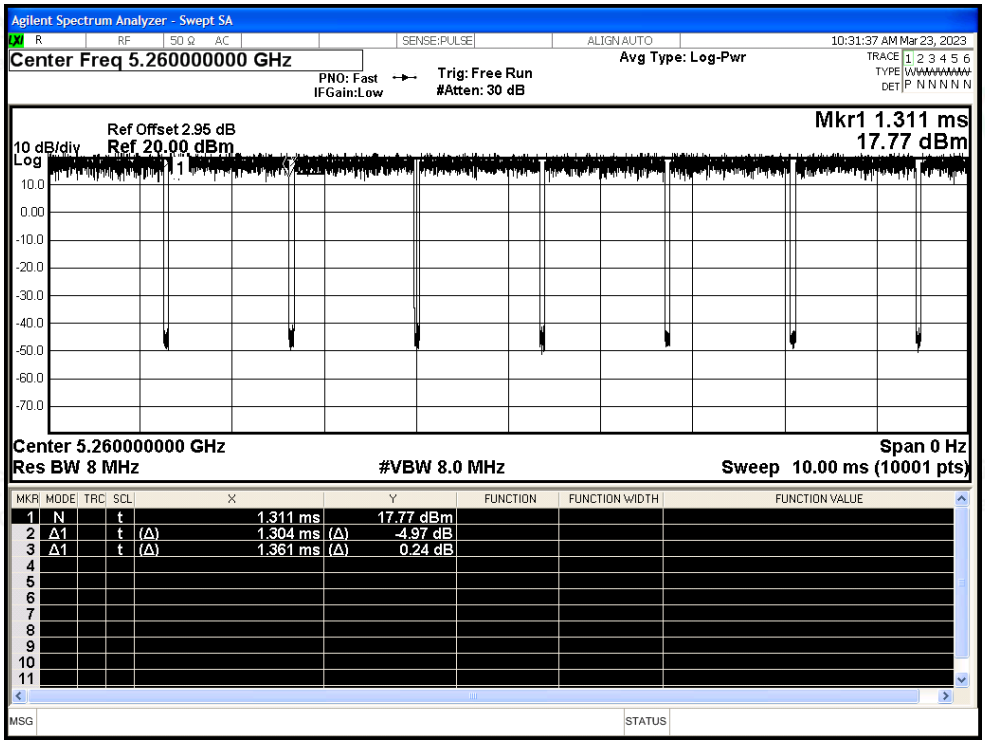
Duty Cycle NVNT a 5300MHz Ant2



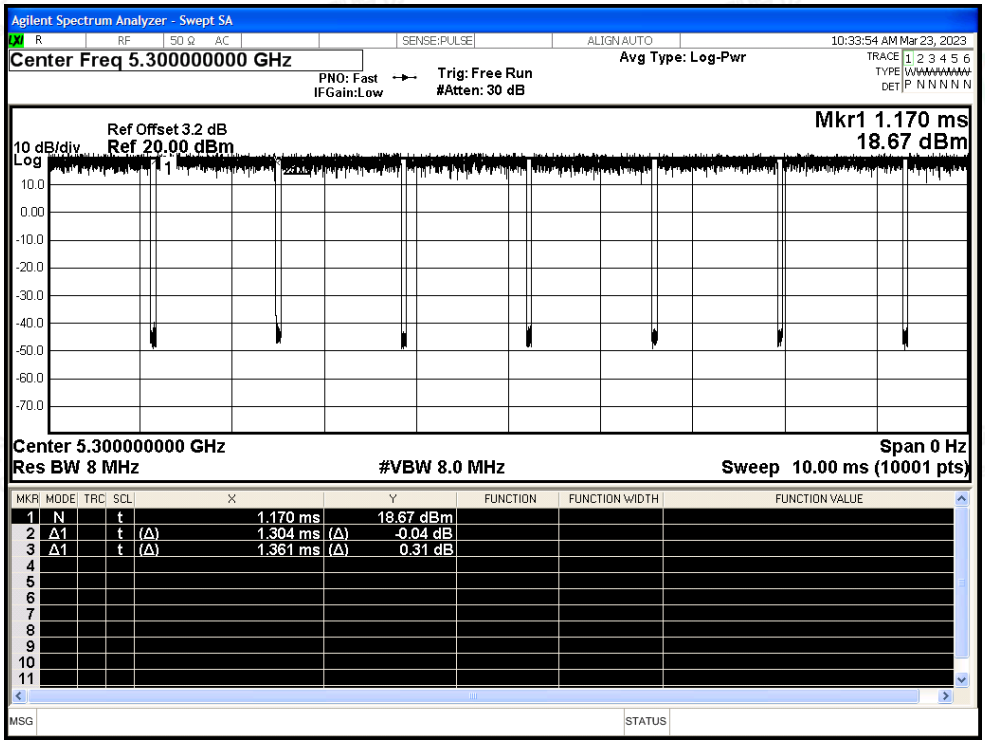
Duty Cycle NVNT a 5320MHz Ant2



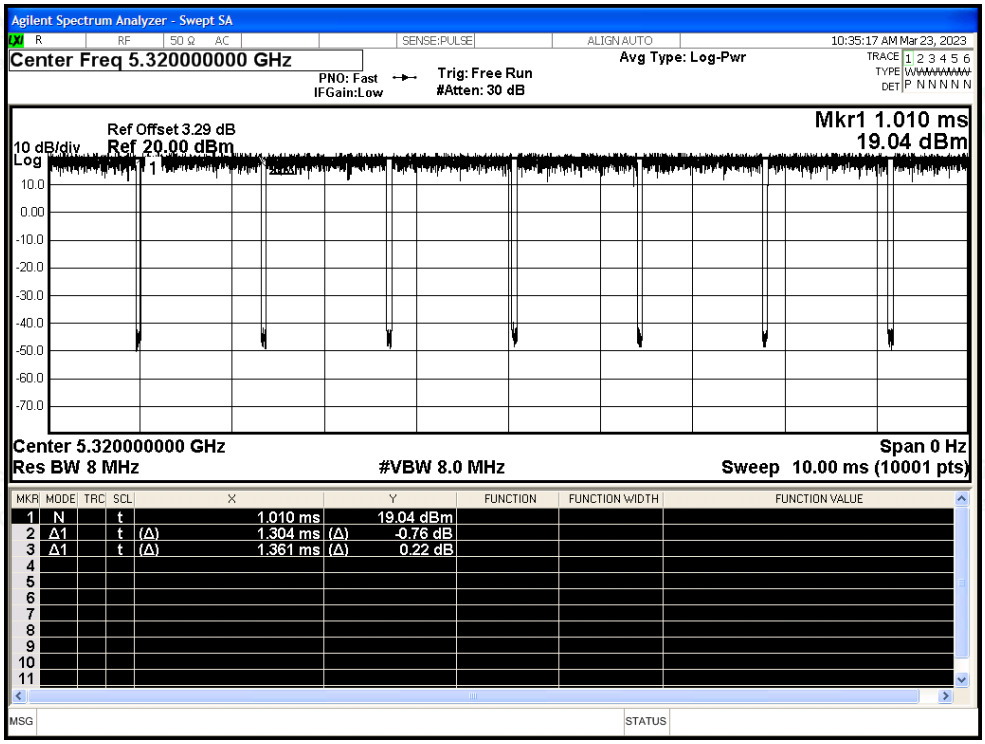
Duty Cycle NVNT n20 5260MHz Ant2



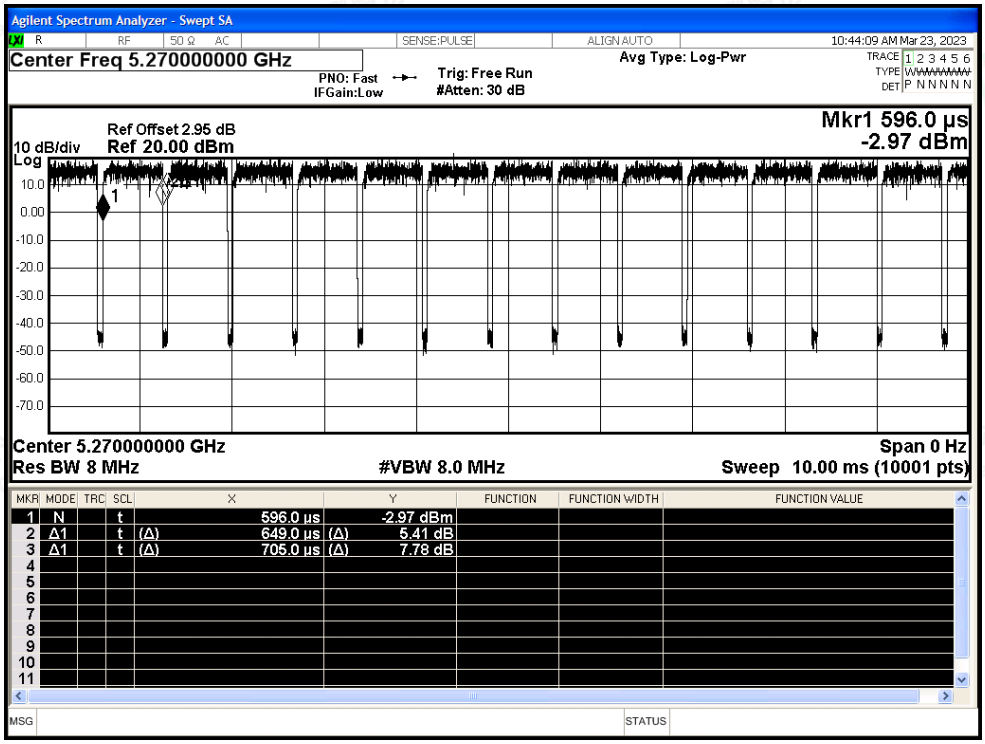
Duty Cycle NVNT n20 5300MHz Ant2



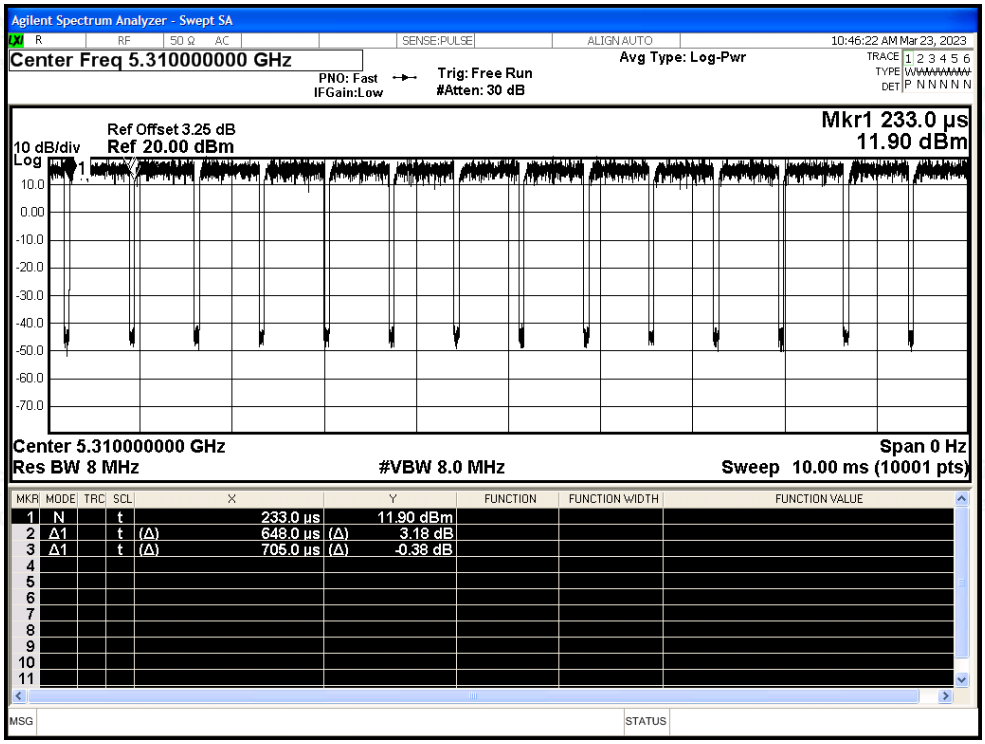
Duty Cycle NVNT n20 5320MHz Ant2



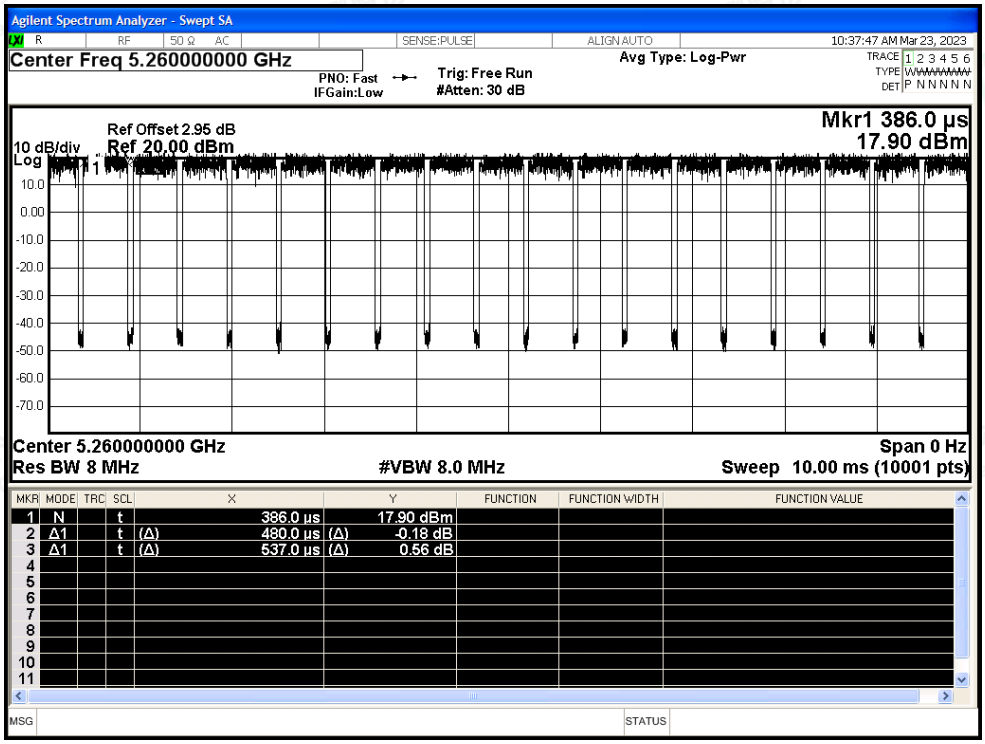
Duty Cycle NVNT n40 5270MHz Ant2



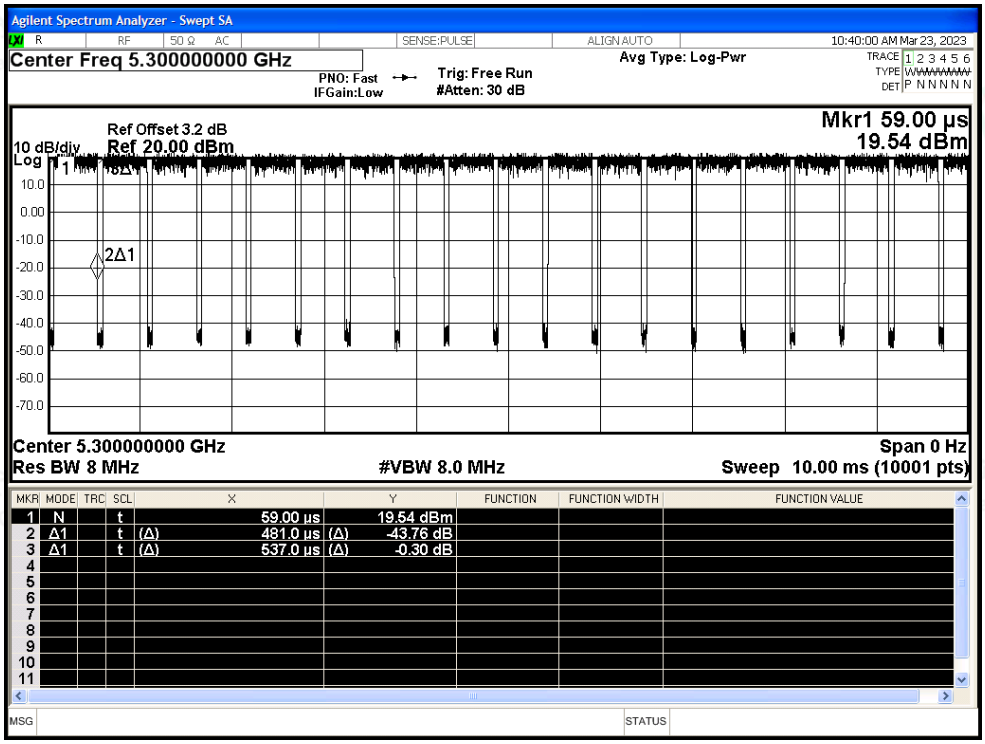
Duty Cycle NVNT n40 5310MHz Ant2



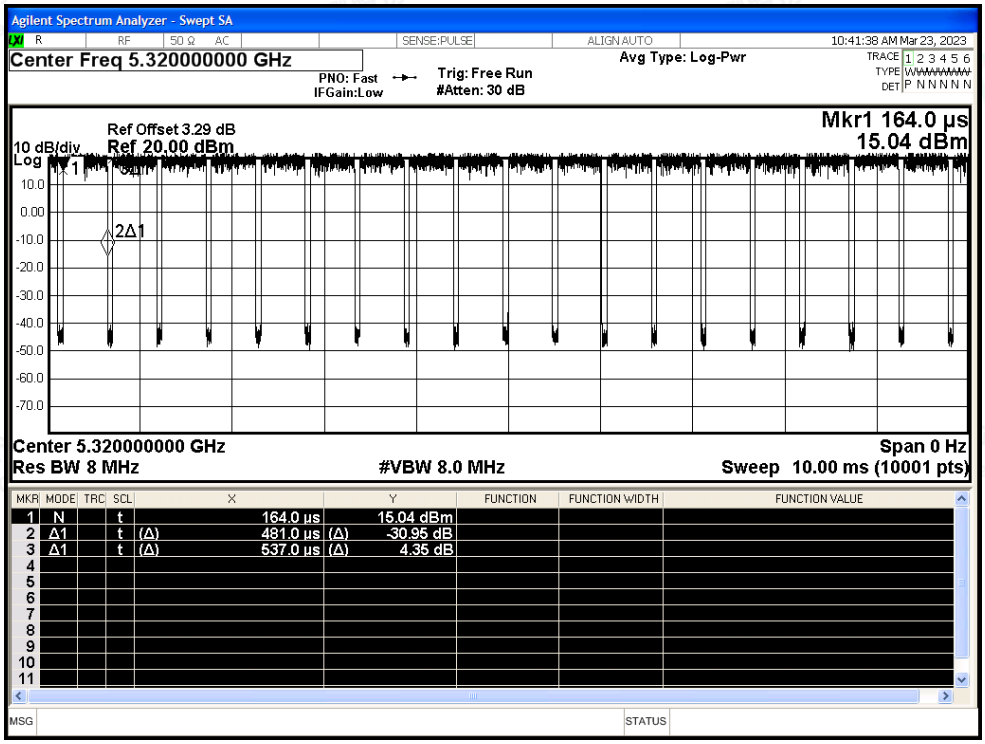
Duty Cycle NVNT ac20 5260MHz Ant2



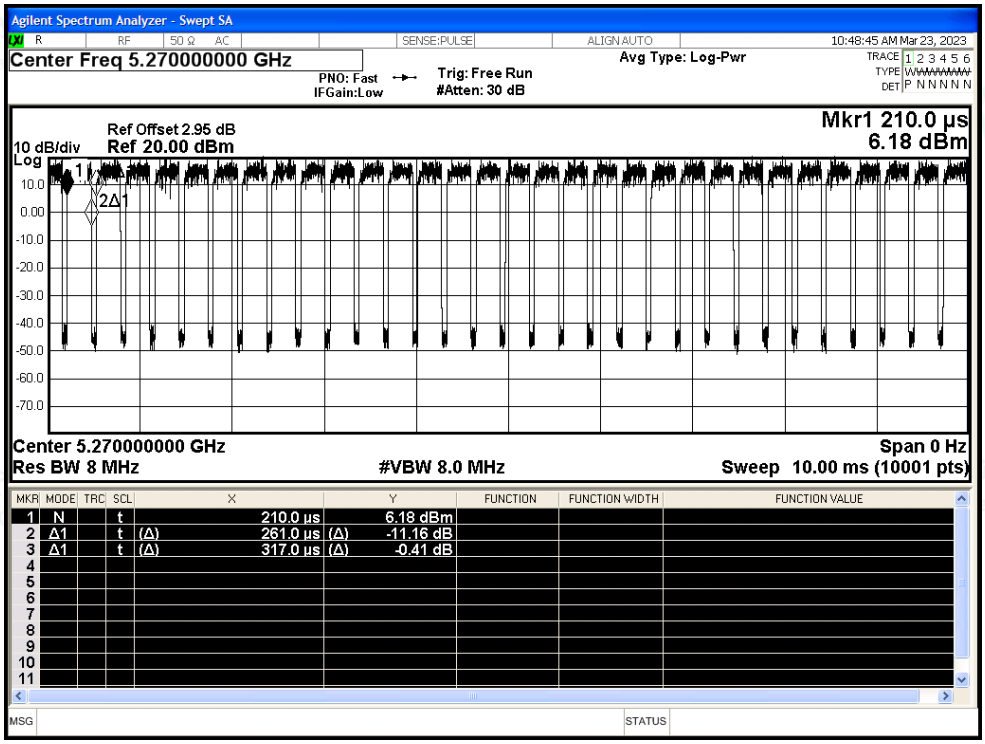
Duty Cycle NVNT ac20 5300MHz Ant2



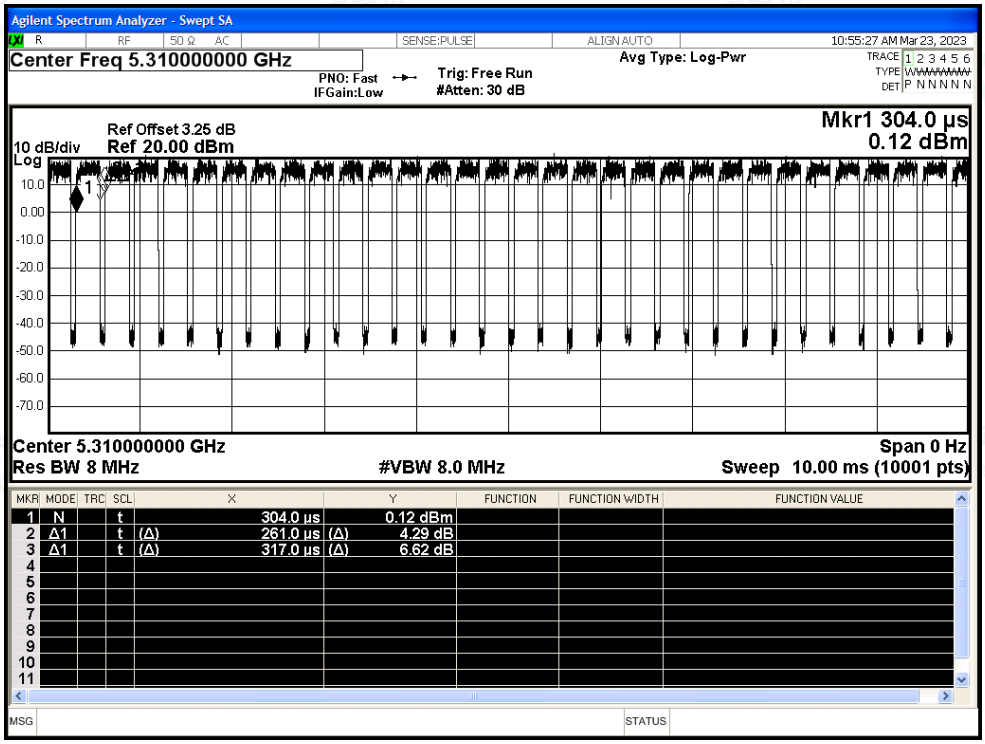
Duty Cycle NVNT ac20 5320MHz Ant2



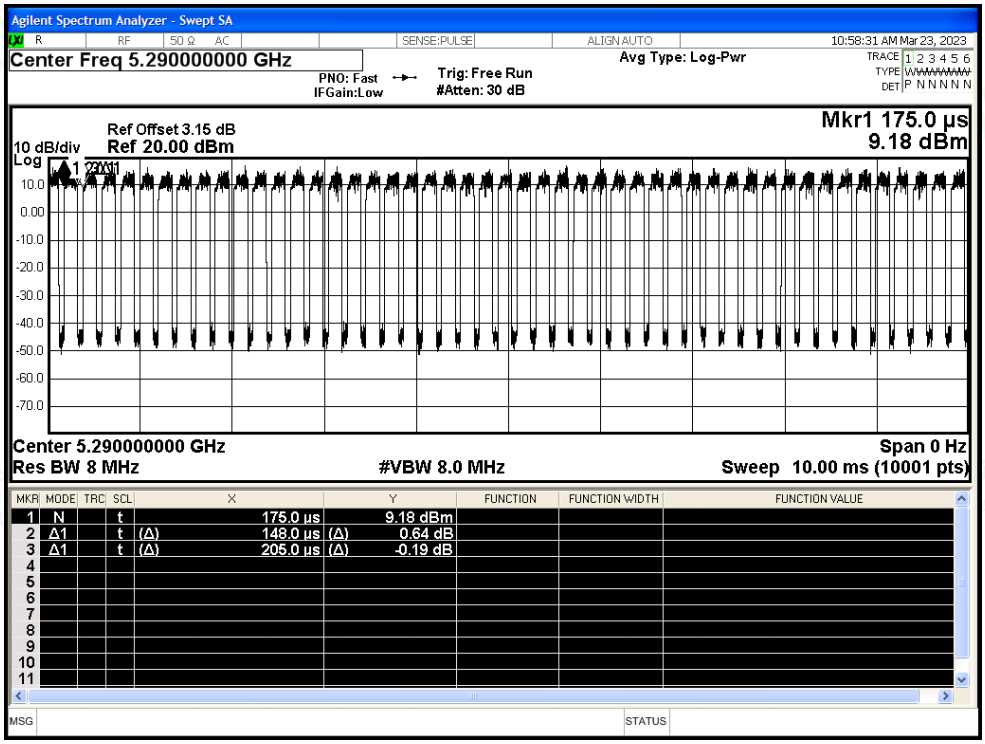
Duty Cycle NVNT ac40 5270MHz Ant2



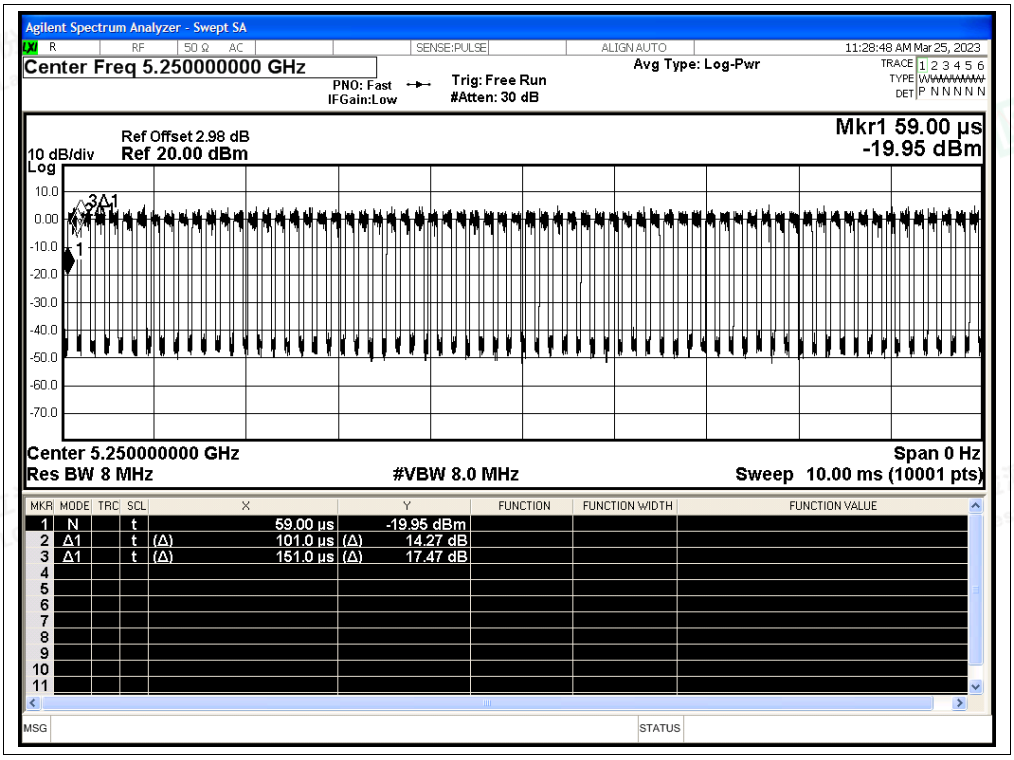
Duty Cycle NVNT ac40 5310MHz Ant2



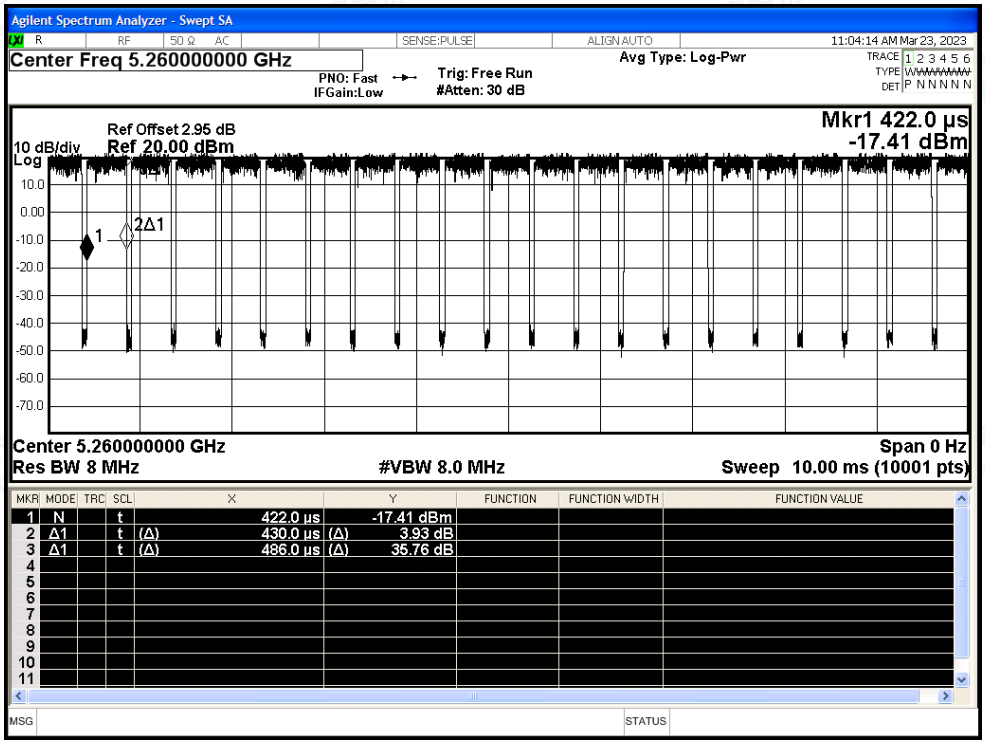
Duty Cycle NVNT ac80 5290MHz Ant2



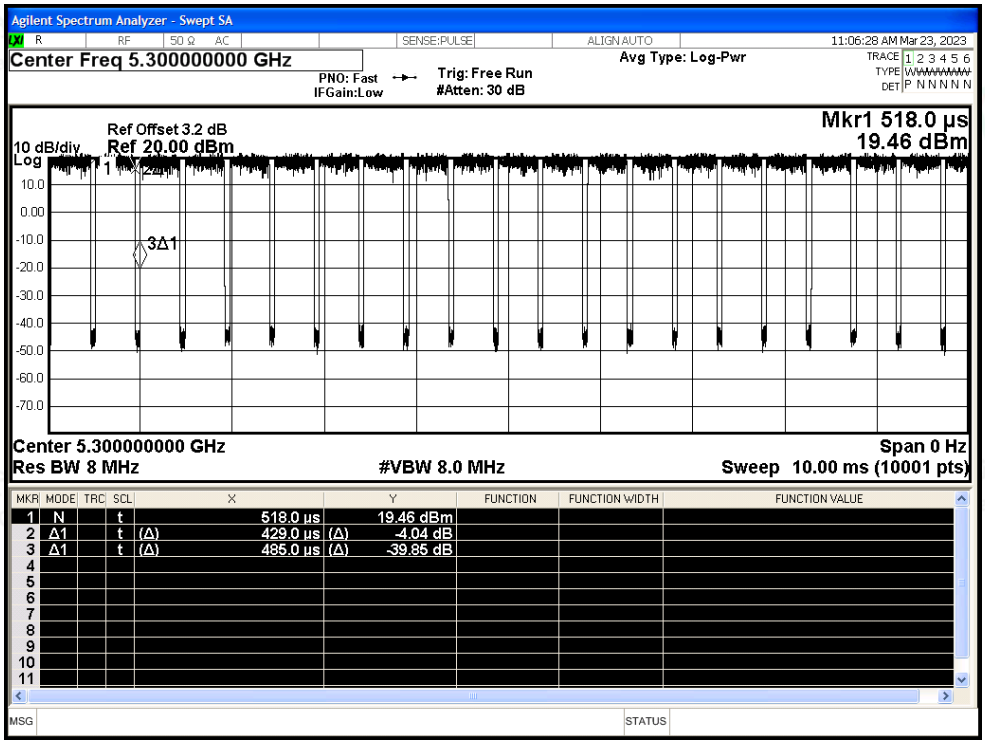
Duty Cycle NVNT ac160 5250MHz Ant2


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
11:28:48 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 59.00 µs
-19.95 dBm
Center 5.250000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 10.00 ms (10001 pts)
1 N t 59.00 µs -19.95 dBm
2 Δ1 t (Δ) 101.0 µs (Δ) 14.27 dB
3 Δ1 t (Δ) 151.0 µs (Δ) 17.47 dB

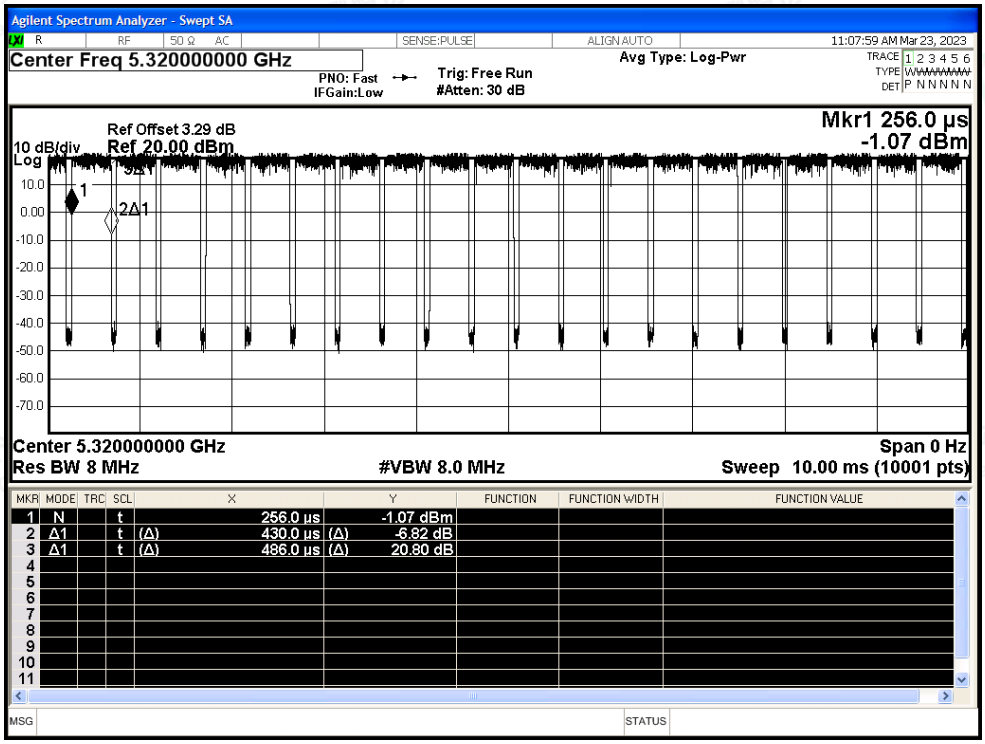
Duty Cycle NVNT ax20 5260MHz Ant2



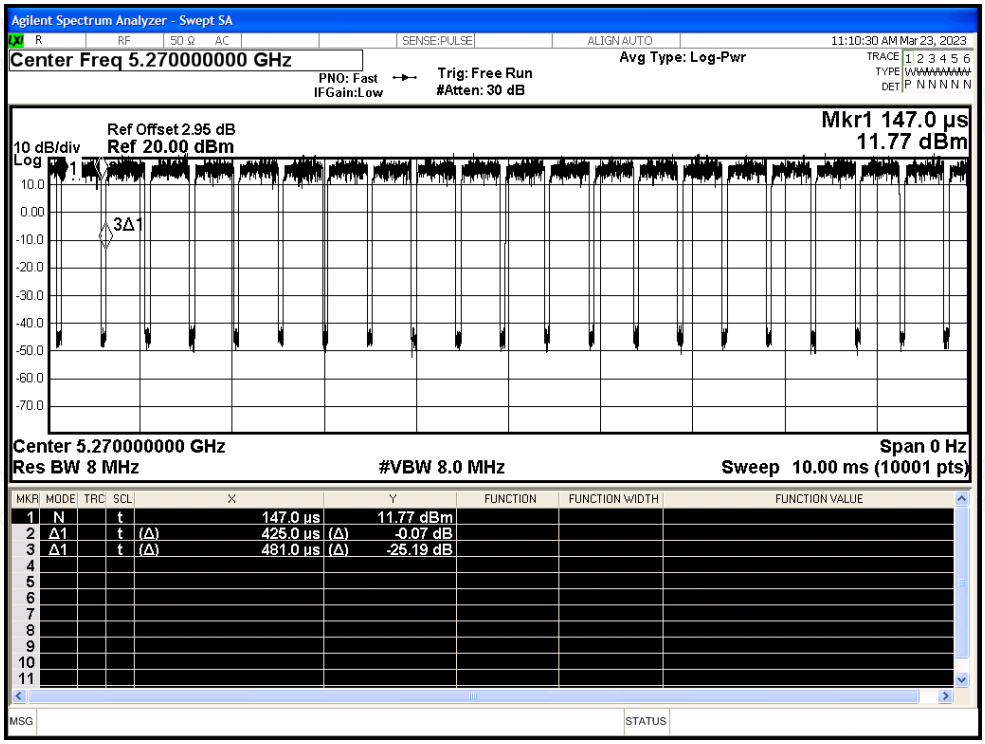
Duty Cycle NVNT ax20 5300MHz Ant2



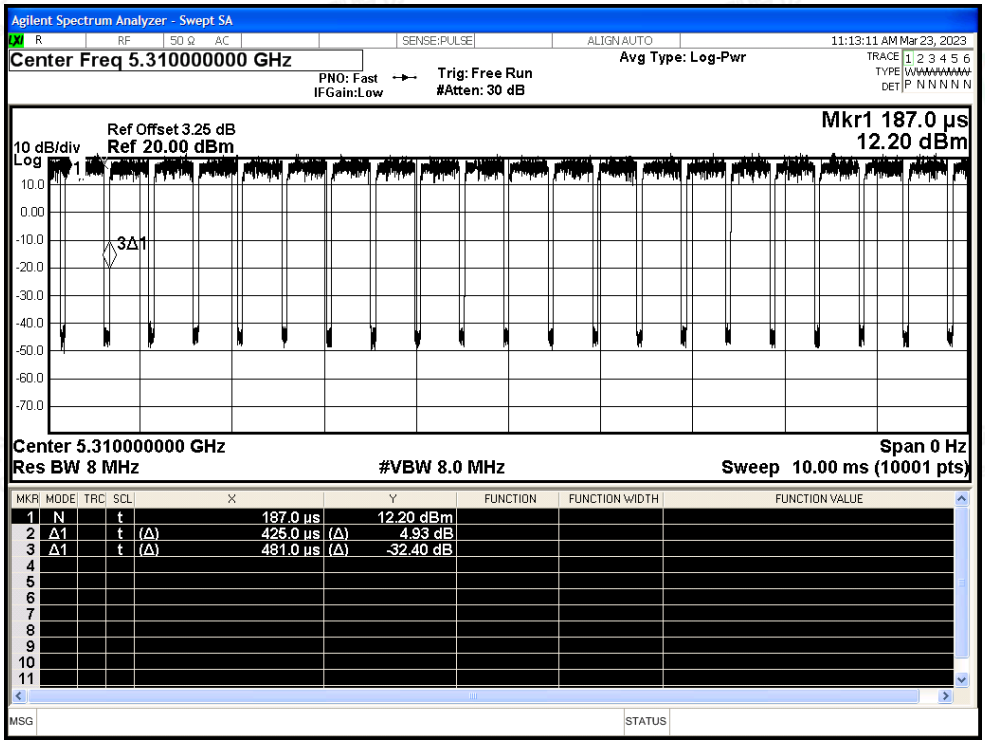
Duty Cycle NVNT ax20 5320MHz Ant2



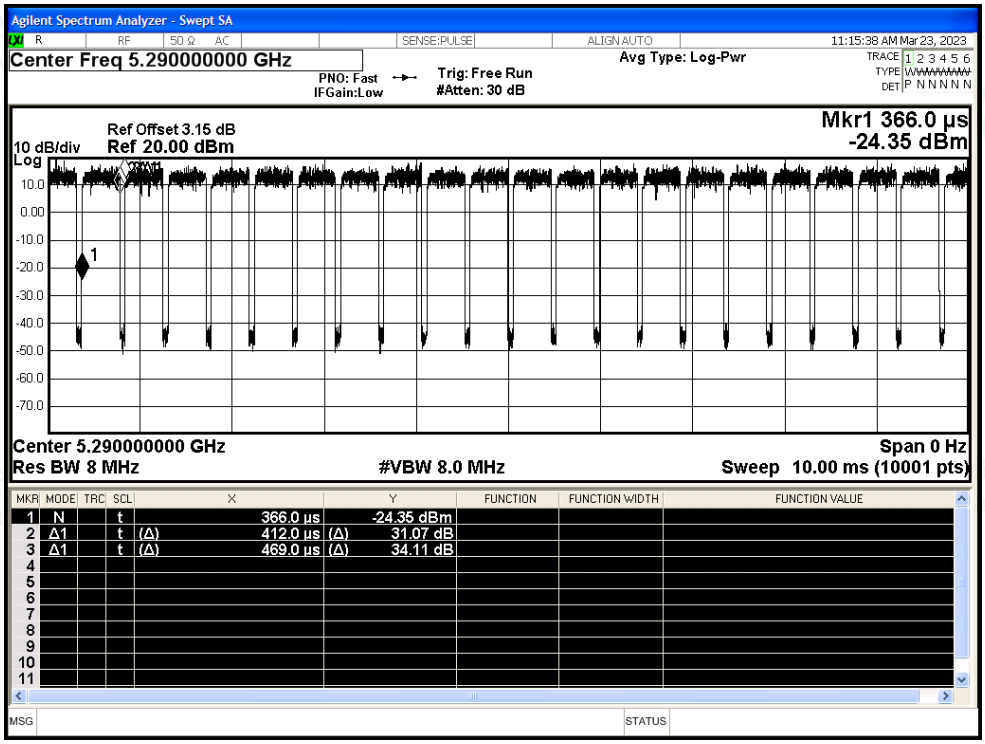
Duty Cycle NVNT ax40 5270MHz Ant2



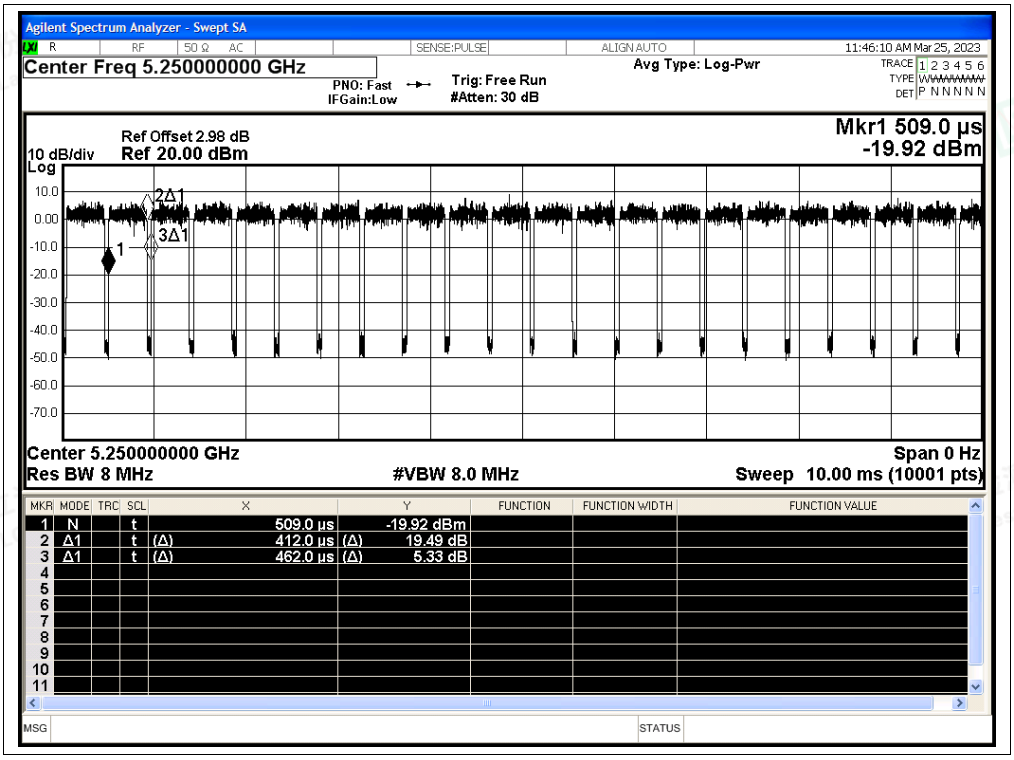
Duty Cycle NVNT ax40 5310MHz Ant2



Duty Cycle NVNT ax80 5290MHz Ant2



Duty Cycle NVNT ax160 5250MHz Ant2


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
11:46:10 AM Mar 25, 2023
Ref Offset 2.98 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 509.0 µs
-19.92 dBm
Center 5.250000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 10.00 ms (10001 pts)
1 N t 509.0 µs -19.92 dBm
2 Δ1 t (Δ) 412.0 µs (Δ) 19.49 dB
3 Δ1 t (Δ) 462.0 µs (Δ) 5.33 dB