4x4MIMO antenna 6ID

Appendix

Report No.:	BCTC2407217909-1E
Applicant:	Vivid-Hosting, LLC
Product Name:	FRC Radio
Test Model:	VH-109
Tested Date:	2024-07-15 to 2024-08-13
Issued Date:	2024-09-09

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Appendix 1: Duty Cycle 3
Appendix 2: Maximum conducted output power 210
Appendix 3: Maximum power spectral density 220

Appendix 1: Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	5955	Ant1	97.94	0.09	0.19
		6175		98.31	0	0.19
		6415		97.57	0.11	0.19
		6435		97.57	0.11	0.19
		6475		97.94	0.09	0.19
		6515		98.12	0	0.19
		6535		98.87	0	0.19
		6695		98.12	0	0.19
		6855		98.86	0	0.19
		6875		98.68	0	0.19
		6895		98.68	0	0.19
		6995		97.39	0.11	0.19
		7115		97.75	0.1	0.19
		5955	Ant2	98.49	0	0.19
		6175		97.21	0.12	0.19
		6415		98.49	0	0.19
		6435		97.75	0.1	0.19
		6475		96.67	0.15	0.19
		6515		97.39	0.11	0.19
		6535		97.03	0.13	0.19
		6695		96.67	0.15	0.19
		6855		97.57	0.11	0.19
		6875		98.68	0	0.19
		6895		98.49	0	0.19
		6995		96.85	0.14	0.19
		7115		98.86	0	0.19
		5955	Ant3	98.87	0	0.19
		6175		98.68	0	0.19
		6415		97.39	0.11	0.19
		6435		98.68	0	0.19
		6475		97.39	0.11	0.19
		6515		97.03	0.13	0.19
		6535		98.49	0	0.19
		6695		98.31	0	0.19
		6855		96.67	0.15	0.19
		6875		98.68	0	0.19
		6895		98.68	0	0.19
		6995		98.31	0	0.19
		7115		98.68	0	0.19
		5955	Ant4	97.21	0.12	0.19

		6175		97.57	0.11	0.19
		6415		97.03	0.13	0.19
		6435		98.49	0	0.19
		6475		96.55	0.15	17.86
		6515		98.68	0	0.19
		6535		97.21	0.12	0.19
		6695		98.86	0	0.19
		6855		98.12	0	0.19
		6875		97.21	0.12	0.19
		6895		97.03	0.13	0.19
		6995		97.75	0.1	0.19
		7115		97.57	0.11	0.19
		5955		97.21	0.12	0.19
		6175		97.39	0.11	0.19
		6415		98.86	0	0.19
		6435		96.85	0.14	0.19
		6475		97.57	0.11	0.19
		6515		97.75	0.1	0.19
		6535	Sum	98.87	0	0.19
		6695		98.12	0	0.19
		6855		97.03	0.13	0.19
		6875		98.86	0	0.19
		6895		97.94	0.09	0.19
		6995		98.49	0	0.19
		7115		98.49	0	0.19
		6415		97.94	0.09	0.19
		6435		97.21	0.12	0.19
		6475		98.86	0	0.19
		6515		97.94	0.09	0.19
		6535		96.85	0.14	0.19
		6695	Ant1	97.57	0.11	0.19
		6855		97.94	0.09	0.19
		6875		97.75	0.1	0.19
		6895		98.31	0	0.19
		6995		98.68	0	0.19
		7115		98.86	0	0.19
		5955		97.39	0.11	0.19
		6175		98.31	0	0.19
		6415		96.67	0.15	0.19
		6435	Ant2	98.86	0	0.19
		6475		97.21	0.12	0.19
		6515		98.68	0	0.19
		6535		98.87	0	0.19
		6695		97.57	0.11	0.19

		6855		98.68	0	0.19
		6875		97.21	0.12	0.19
		6895		96.67	0.15	0.19
		6995		97.75	0.1	0.19
		7115		97.57	0.11	0.19
		5955	Ant3	97.39	0.11	0.19
		6175		96.85	0.14	0.19
		6415		98.31	0	0.19
		6435		98.49	0	0.19
		6475		97.57	0.11	0.19
		6515		97.21	0.12	0.19
		6535		98.12	0	0.19
		6695		97.94	0.09	0.19
		6855		98.31	0	0.19
		6875		97.21	0.12	0.19
		6995		98.49	0	0.19
		7115		97.21	0.12	0.19
		5955	Ant4	97.39	0.11	0.19
		6175		98.31	0	0.19
		6415		98.49	0	0.19
		6475		98.68	0	0.19
		6515		97.94	0.09	0.19
		6535		98.86	0	0.19
		6695		98.12	0	0.19
		6855		98.49	0	0.19
		6875		96.85	0.14	0.19
		6895		97.39	0.11	0.19
		6995		98.49	0	0.19
		7115		96.85	0.14	0.19
	ax40	5965	Ant1	97.64	0.1	0.19
		6165		97.28	0.12	0.19
		6405		98.9	0	0.19
		6445		97.81	0.1	0.19
		6485		97.99	0.09	0.19
		6525		97.63	0.1	0.19
		6565		97.81	0.1	0.19
		6685		97.81	0.1	0.19
		6845		97.28	0.12	0.19
		6885		97.64	0.1	0.19
		6925		97.81	0.1	0.19
		6965		97.81	0.1	0.19
		7085		98.9	0	0.19
		5965	Ant2	98.17	0	0.19
		6165		98.35	0	0.19

		6405		97.1	0.13	0.19
		6445		97.46	0.11	0.19
		6485		96.93	0.14	0.19
		6525		96.75	0.14	0.19
		6565		97.1	0.13	0.19
		6685		97.28	0.12	0.19
		6845		98.17	0	0.19
		6885		98.53	0	0.19
		6925		97.28	0.12	0.19
		6965		96.75	0.14	0.19
		7085		98.89	0	0.19
		5965		98.53	0	0.19
		6165		98.9	0	0.19
		6405		97.28	0.12	0.19
		6445		96.76	0.14	0.19
		6485		98.9	0	0.19
		6525		98.53	0	0.19
		6565	Ant3	96.75	0.14	0.19
		6685		97.46	0.11	0.19
		6845		97.28	0.12	0.19
		6885		97.99	0.09	0.19
		6925		97.45	0.11	0.19
		6965		98.35	0	0.19
		7085		98.71	0	0.19
		5965		96.76	0.14	0.19
		6165		98.71	0	0.19
		6405		98.89	0	0.19
		6445		98.35	0	0.19
		6485		98.71	0	0.19
		6525		97.81	0.1	0.19
		6565	Ant4	98.53	0	0.19
		6685		97.28	0.12	0.19
		6845		97.11	0.13	0.19
		6885		98.89	0	0.19
		6925		98.35	0	0.19
		6965		97.11	0.13	0.19
		7085		97.28	0.12	0.19
		5965		98.53	0	0.19
		6165		98.71	0	0.19
		6405		98.17	0	0.19
		6445	Sum	98.53	0	0.19
		6485		98.89	0	0.19
		6525		98.71	0	0.19
		6565		98.89	0	0.19

		6685		98.9	0	0.19
		6845		98.35	0	0.19
		6885		97.11	0.13	0.19
		6925		98.17	0	0.19
		6965		98.9	0	0.19
		7085		97.1	0.13	0.19
		5965	Ant1	97.46	0.11	0.19
		6165		96.76	0.14	0.19
		6405		97.1	0.13	0.19
		6445		97.99	0.09	0.19
		6485		98.35	0	0.19
		6525		98.35	0	0.19
		6565		97.99	0.09	0.19
		6685		97.1	0.13	0.19
		6845		98.71	0	0.19
		6885		98.17	0	0.19
		6925		97.28	0.12	0.19
		7085		98.71	0	0.19
		5965	Ant2	97.81	0.1	0.19
		6165		97.28	0.12	0.19
		6405		97.99	0.09	0.19
		6445		97.63	0.1	0.19
		6485		96.76	0.14	0.19
		6525		97.45	0.11	0.19
		6565		97.81	0.1	0.19
		6685		97.11	0.13	0.19
		6845		97.28	0.12	0.19
		6885		98.9	0	0.19
		6925		98.89	0	0.19
		6965		98.53	0	0.19
		7085		98.71	0	0.19
		5965	Ant3	96.75	0.14	0.19
		6165		97.28	0.12	0.19
		6405		98.35	0	0.19
		6445		98.71	0	0.19
		6485		98.35	0	0.19
		6525		96.93	0.14	0.19
		6565		97.81	0.1	0.19
		6685		97.28	0.12	0.19
		6845		97.99	0.09	0.19
		6885		97.63	0.1	0.19
		6925		96.93	0.14	0.19
		7085		98.53	0	0.19
		5965	Ant4	97.99	0.09	0.19

		6165		98.89	0	0.19
		6405		97.99	0.09	0.19
		6445		98.71	0	0.19
		6485		98.35	0	0.19
		6525		96.75	0.14	0.19
		6565		97.1	0.13	0.19
		6685		98.71	0	0.19
		6845		97.45	0.11	0.19
		6885		97.28	0.12	0.19
		6925		98.53	0	0.19
		6965		96.75	0.14	0.19
		7085		97.81	0.1	0.19
	ax80	5985	Ant1	98.72	0	0.19
		6145		98.18	0	0.19
		6385		98.9	0	0.18
		6465		96.95	0.13	0.19
		6545		98.72	0	0.18
		6625		98.54	0	0.18
		6705		97.65	0.1	0.19
		6785		96.95	0.13	0.19
		6865		97.83	0.1	0.19
		6945		98.72	0	0.19
		7025		98.72	0	0.19
		5985	Ant2	97.65	0.1	0.19
		6145		98.9	0	0.18
		6385		98.18	0	0.19
		6465		98.54	0	0.19
		6545		98.18	0	0.19
		6625		98.9	0	0.18
		6705		98.01	0	0.18
		6785		98	0	0.19
		6865		98.36	0	0.19
		6945		97.13	0.13	0.18
		7025		96.95	0.13	0.18
		5985	Ant3	98.54	0	0.19
		6145		98	0	0.19
		6385		97.47	0.11	0.19
		6465		96.77	0.14	0.19
		6545		97.3	0.12	0.19
		6625		98.18	0	0.19
		6705		98.54	0	0.19
		6785		96.95	0.13	0.18
		6865		97.83	0.1	0.18
		6945		97.65	0.1	0.19

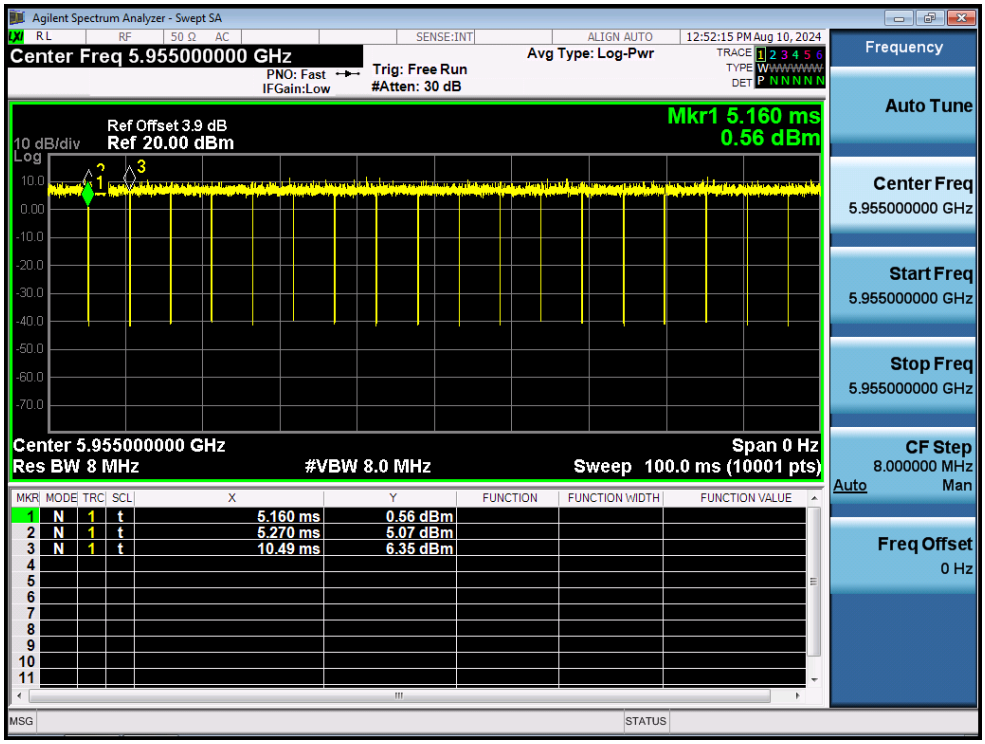
		7025		98.72	0	0.19
		5985	Ant4	98.9	0	0.19
		6145		97.65	0.1	0.19
		6385		98.36	0	0.19
		6465		97.3	0.12	0.19
		6545		98.72	0	0.18
		6625		97.65	0.1	0.19
		6705		98.36	0	0.19
		6785		97.83	0.1	0.18
		6865		97.12	0.13	0.19
		6945		98.72	0	0.19
		7025		98.72	0	0.19
		5985	Sum	97.47	0.11	0.19
		6145		98.54	0	0.19
		6385		97.48	0.11	0.18
		6465		96.77	0.14	0.19
		6545		97.3	0.12	0.19
		6625		97.65	0.1	0.19
		6705		97.13	0.13	0.18
		6785		97.83	0.1	0.19
		6865		97.3	0.12	0.19
		6945		98.54	0	0.19
		7025		98.19	0	0.18
		5985	Ant1	98.72	0	0.18
		6145		98.9	0	0.18
		6385		98.36	0	0.19
		6465		98.72	0	0.18
		6545		96.95	0.13	0.19
		6625		97.65	0.1	0.19
		6705		98.9	0	0.18
		6785		97.12	0.13	0.19
		6865		98.54	0	0.19
		6945		96.95	0.13	0.18
		7025		98.19	0	0.18
		5985	Ant2	96.77	0.14	0.19
		6385		97.3	0.12	0.19
		6465		97.3	0.12	0.18
		6545		98.72	0	0.19
		6625		97.83	0.1	0.19
		6705		98.54	0	0.19
		6785		97.65	0.1	0.19
		6865		97.83	0.1	0.19
		6945		98.72	0	0.18
		5985	Ant3	96.95	0.13	0.18

		6145		97.3	0.12	0.18
		6385		98.9	0	0.18
		6545		97.65	0.1	0.19
		6625		98.9	0	0.19
		6705		97.13	0.13	0.18
		6865		97.12	0.13	0.19
		7025		97.47	0.11	0.19
		5985		97.65	0.1	0.19
		6385		97.3	0.12	0.19
		6465		98	0	0.19
		6545		97.3	0.12	0.18
		6625	Ant4	98.36	0	0.19
		6705		97.12	0.13	0.19
		6785		97.12	0.13	0.19
		6865		97.48	0.11	0.18
		7025		98.18	0	0.19
		6025		97.8	0.1	0.22
		6185		96.53	0.15	0.22
		6345		96.74	0.14	0.22
		6505	Ant1	97.37	0.12	0.22
		6665		96.32	0.16	0.22
		6825		97.8	0.1	0.22
		6985		98.67	0	0.23
		6025		98.45	0	0.23
		6185		97.8	0.1	0.22
		6345		97.16	0.13	0.23
		6505	Ant2	98.02	0	0.22
		6665		97.89	0.09	0.22
		6825		98.23	0	0.22
		6985		96.73	0.14	0.23
	ax160	6025		96.31	0.16	0.23
		6185		97.16	0.13	0.22
		6345		98.02	0	0.22
		6505	Ant3	96.52	0.15	0.23
		6665		96.32	0.16	0.22
		6825		96.32	0.16	0.22
		6985		97.37	0.12	0.23
		6025		97.8	0.1	0.22
		6185		98.45	0	0.23
		6345		96.73	0.14	0.23
		6505	Ant4	97.16	0.13	0.23
		6665		98.45	0	0.22
		6825		98.45	0	0.23
		6985		98.01	0	0.23

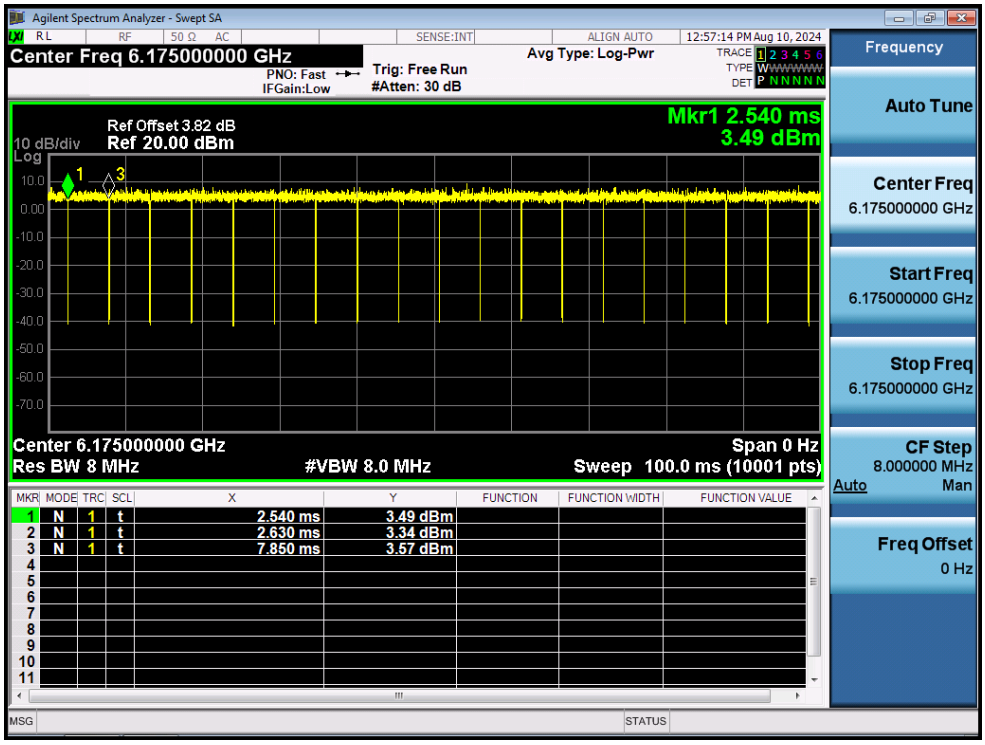
		6025	Sum	97.37	0.12	0.23
		6185		98.45	0	0.23
		6345		98.23	0	0.23
		6505		98.45	0	0.22
		6665		98.67	0	0.23
		6825		97.37	0.12	0.23
		6985		98.23	0	0.22
		6025	Ant1	97.37	0.12	0.23
		6185		98.45	0	0.23
		6505		98.45	0	0.22
		6345		96.73	0.14	0.23
		6665		98.67	0	0.23
		6825		97.37	0.12	0.22
		6985		98.67	0	0.22
		6025	Ant2	98.23	0	0.23
		6185		97.37	0.12	0.23
		6505		98.02	0	0.22
		6345		97.58	0.11	0.23
		6665		98.28	0	0.22
		6825		96.74	0.14	0.22
		6985		98.45	0	0.23
		6025	Ant3	97.37	0.12	0.23
		6185		98.67	0	0.22
		6505		98.67	0	0.22
		6345		97.37	0.12	0.23
		6665		96.53	0.15	0.22
		6825		98.45	0	0.23
		6985		97.8	0.1	0.22
		6185	Ant4	96.95	0.13	0.22
		6345		96.31	0.16	0.23
		6505		97.16	0.13	0.22
		6665		96.95	0.13	0.22
		6825		97.37	0.12	0.23
		6985		96.73	0.14	0.23

Test Graphs

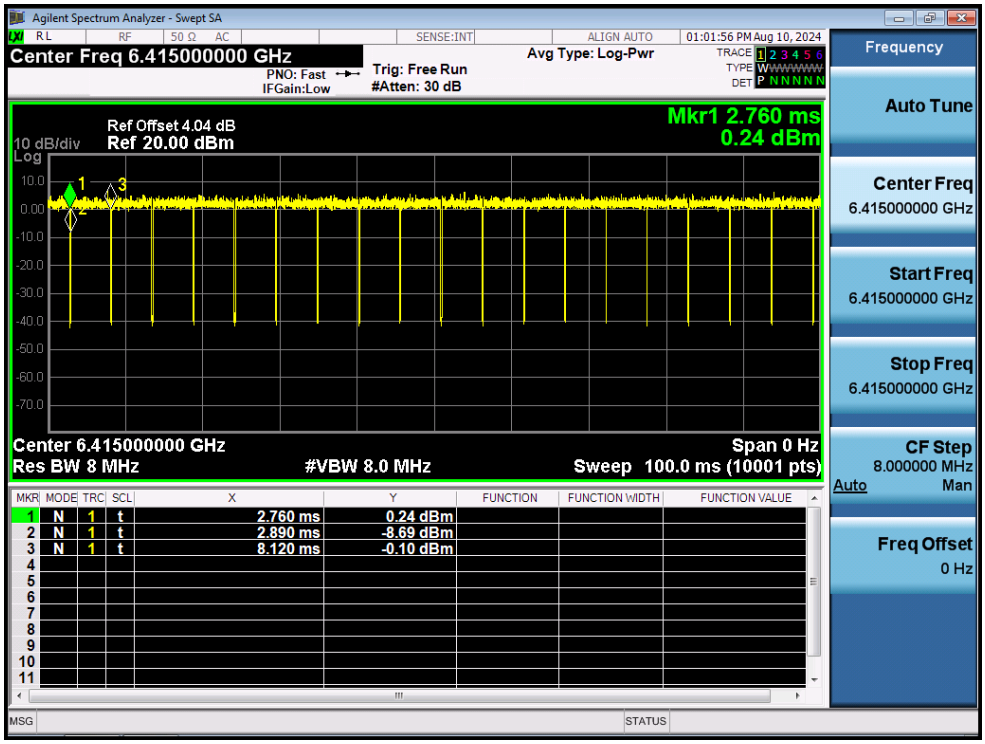
Duty Cycle NVNT ax20 5955MHz Ant1



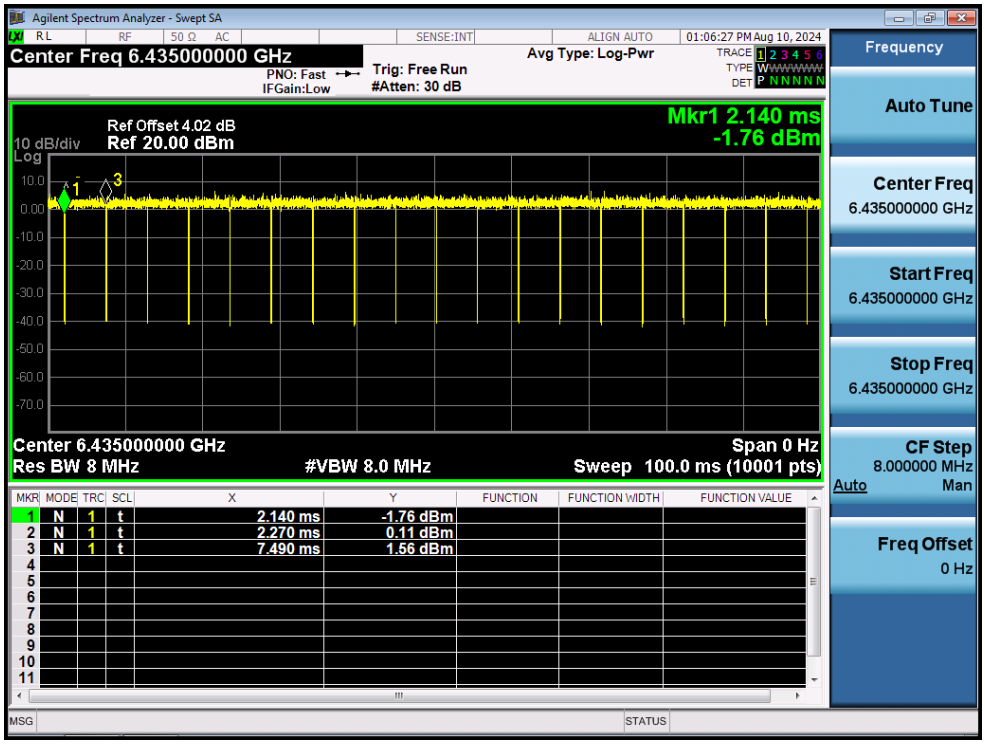
Duty Cycle NVNT ax20 6175MHz Ant1



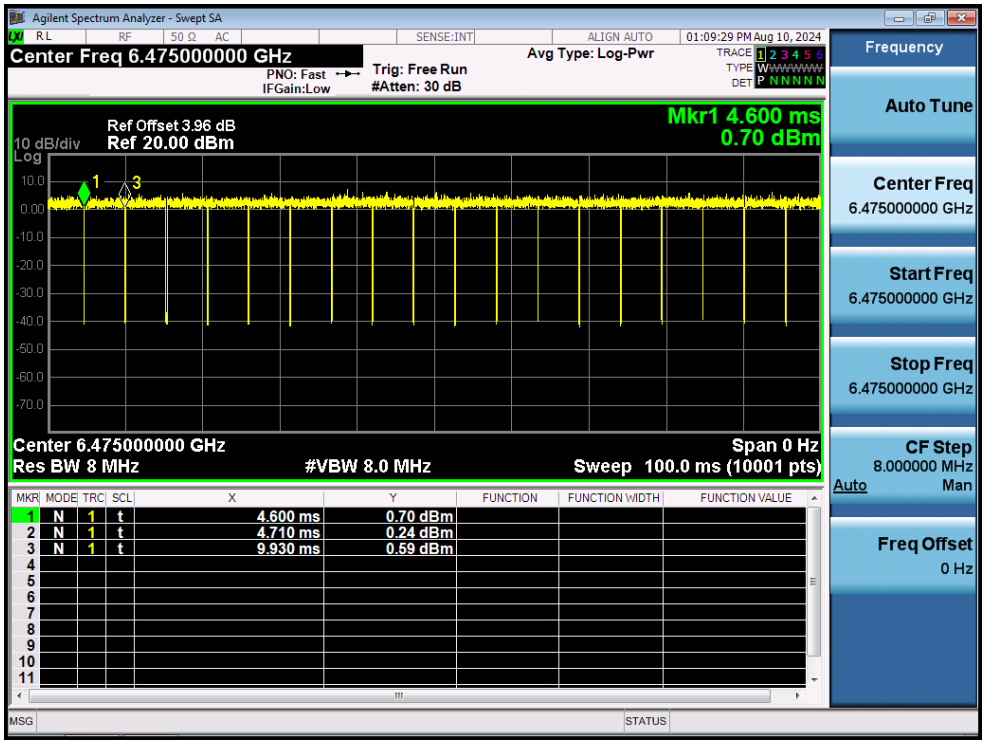
Duty Cycle NVNT ax20 6415MHz Ant1



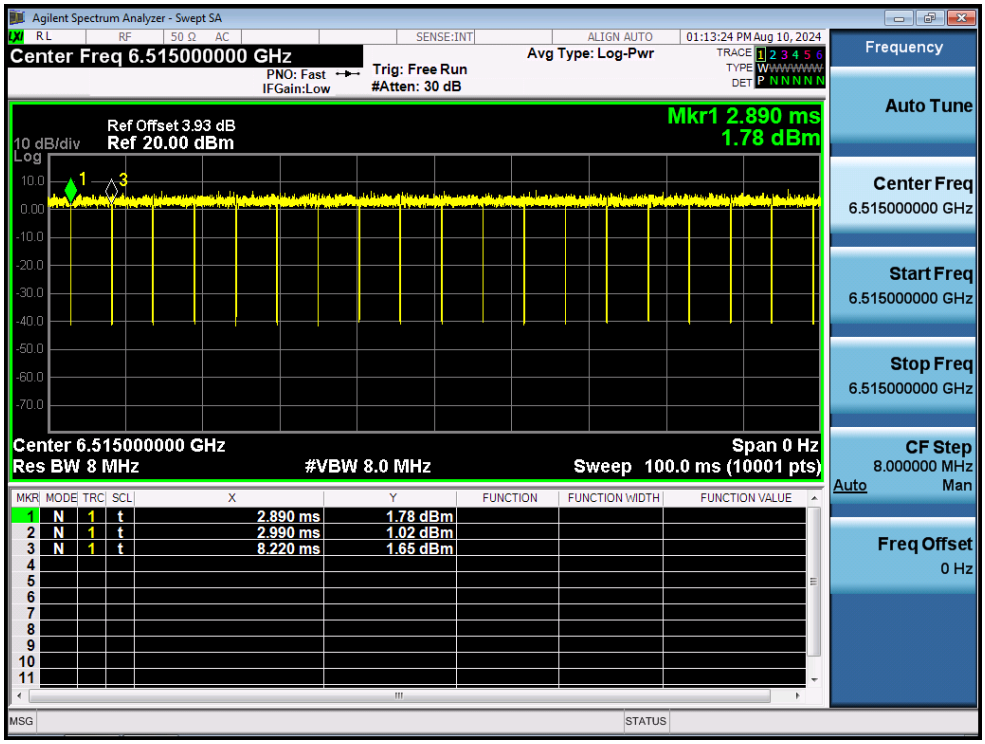
Duty Cycle NVNT ax20 6435MHz Ant1



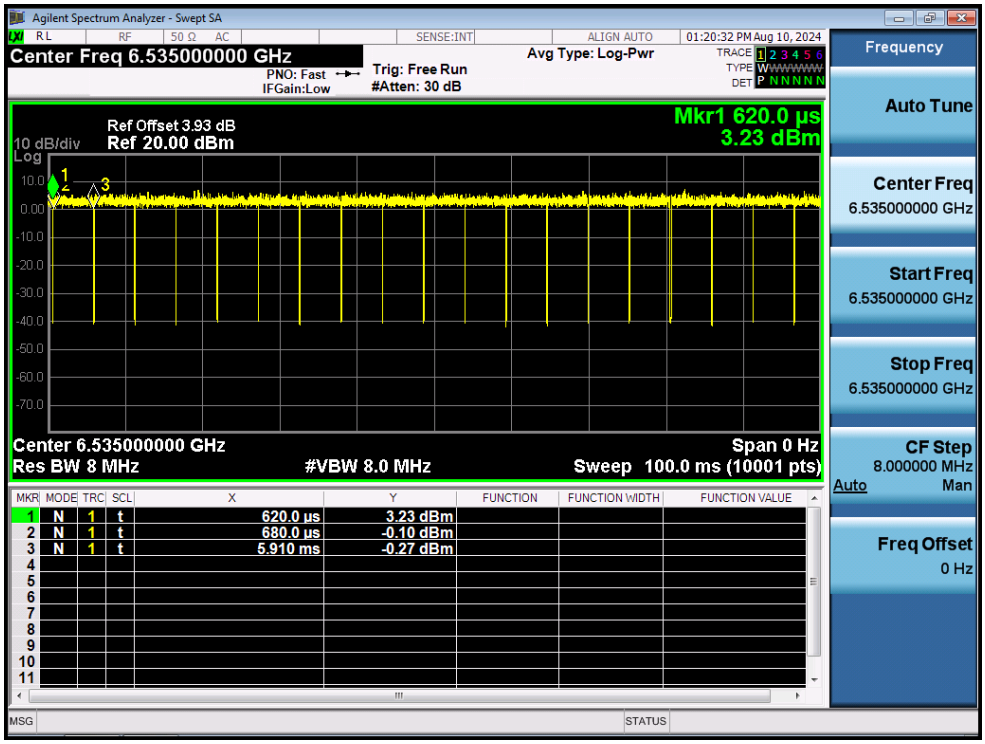
Duty Cycle NVNT ax20 6475MHz Ant1



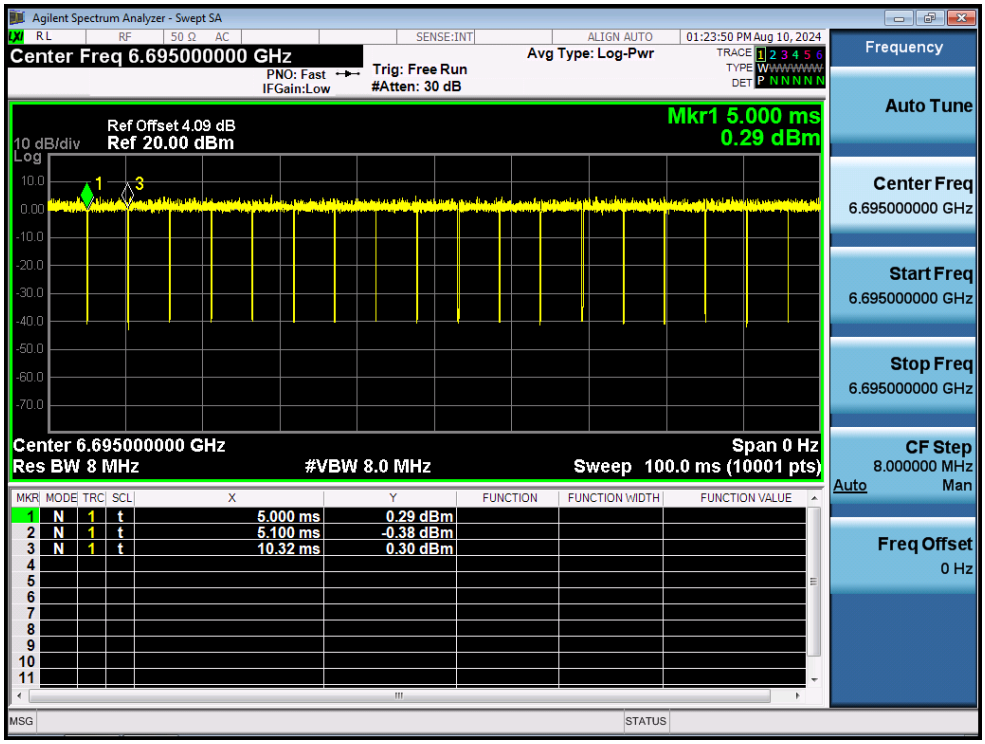
Duty Cycle NVNT ax20 6515MHz Ant1



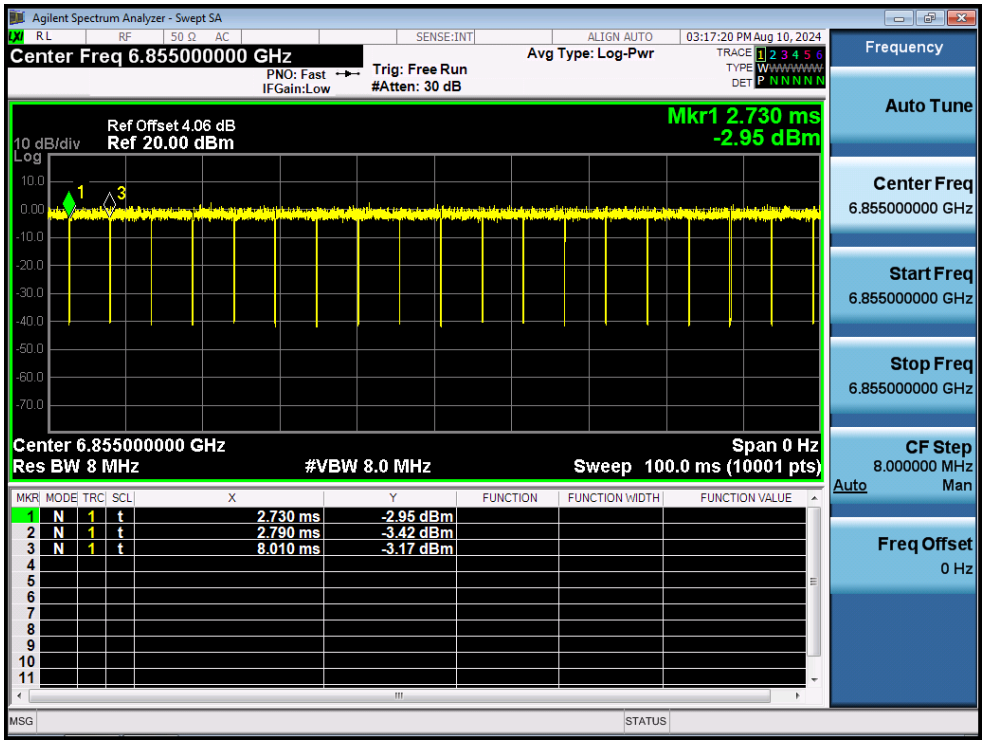
Duty Cycle NVNT ax20 6535MHz Ant1



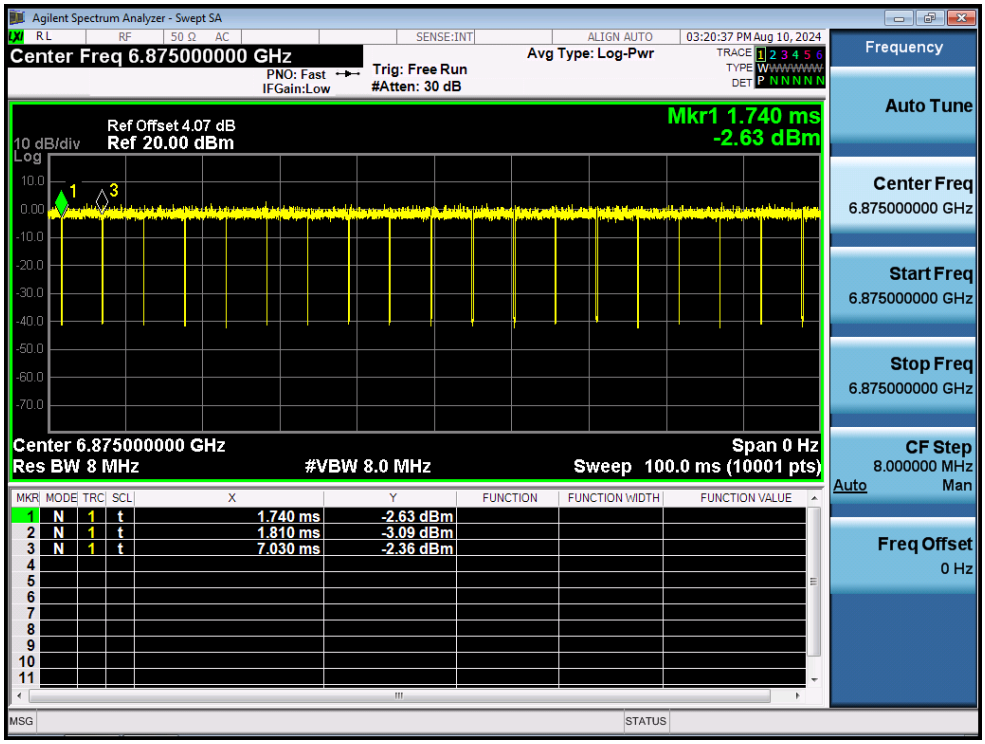
Duty Cycle NVNT ax20 6695MHz Ant1



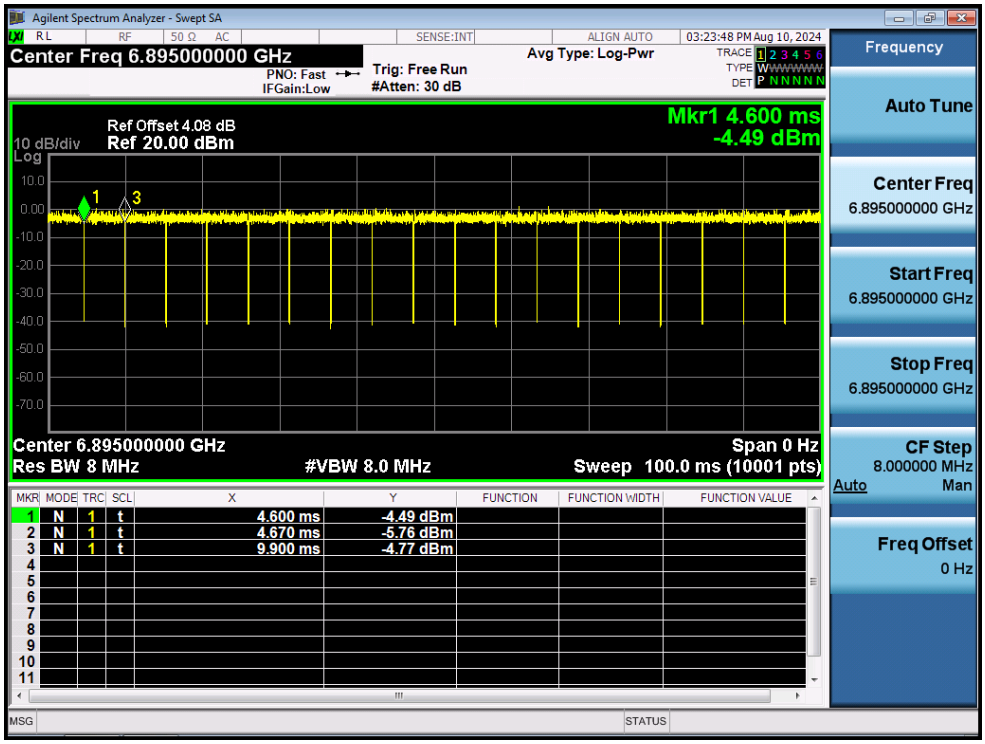
Duty Cycle NVNT ax20 6855MHz Ant1



Duty Cycle NVNT ax20 6875MHz Ant1



Duty Cycle NVNT ax20 6895MHz Ant1



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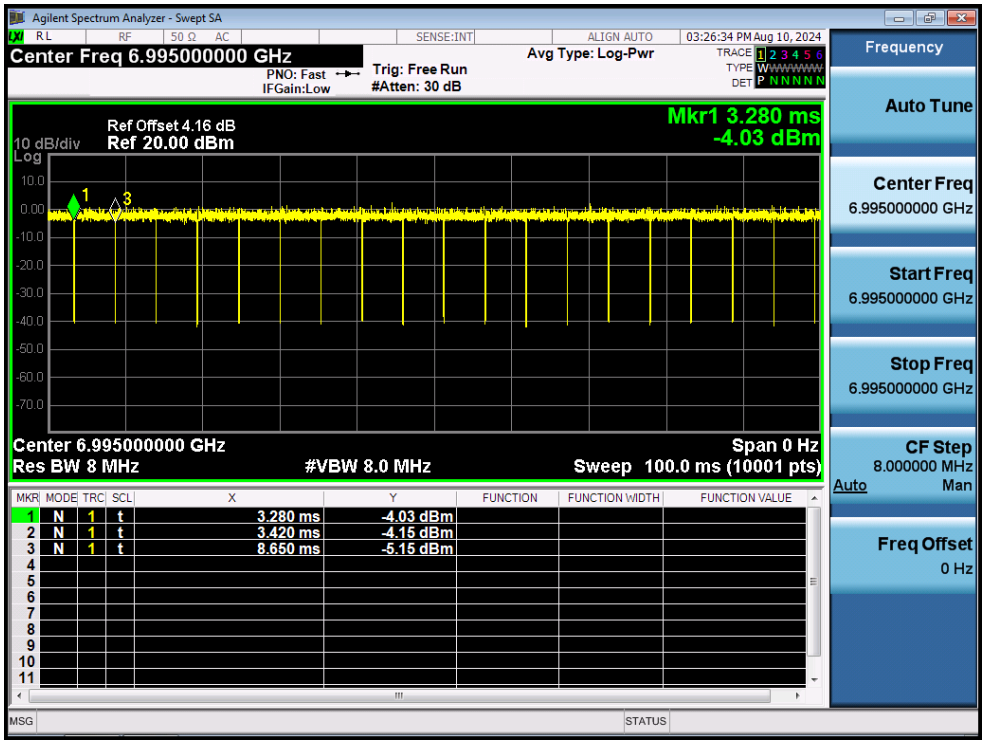
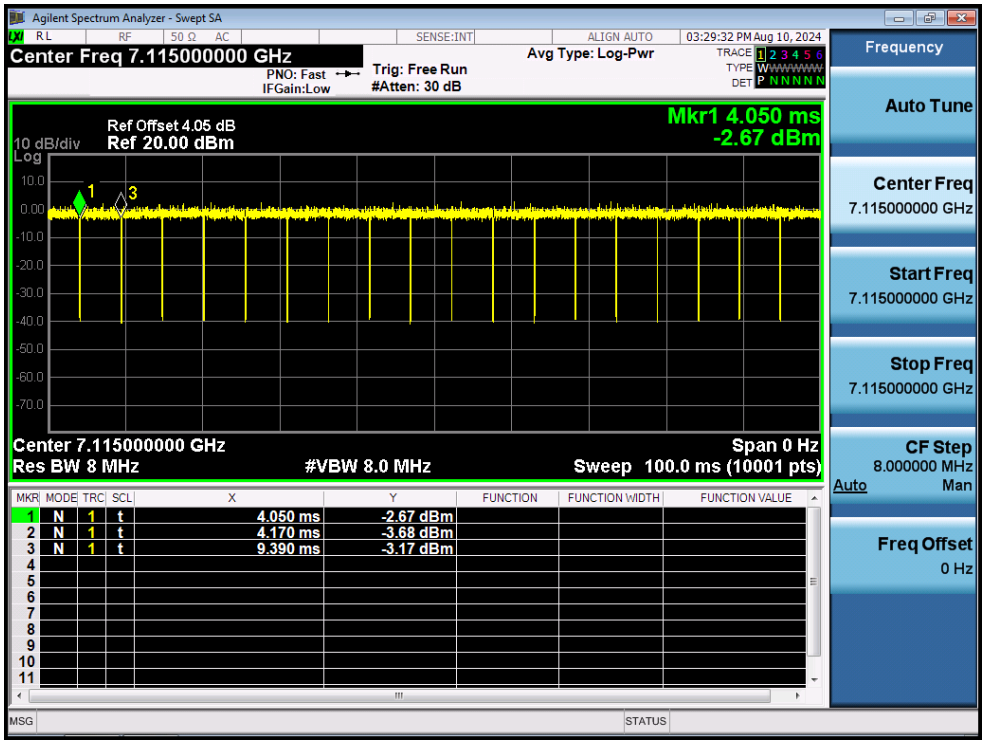
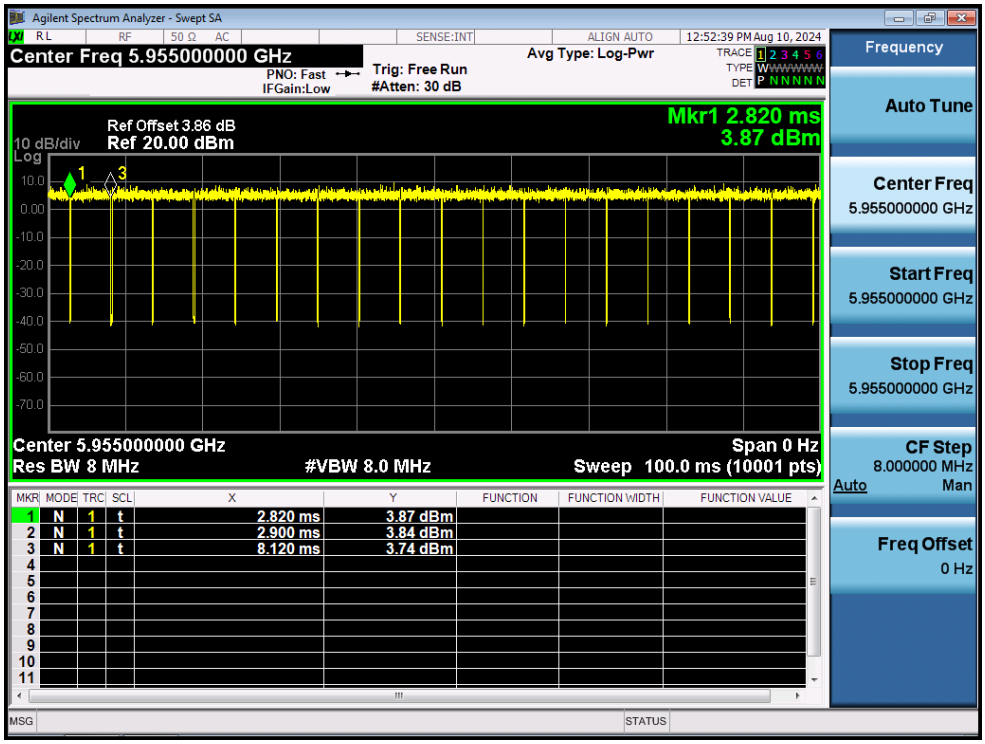


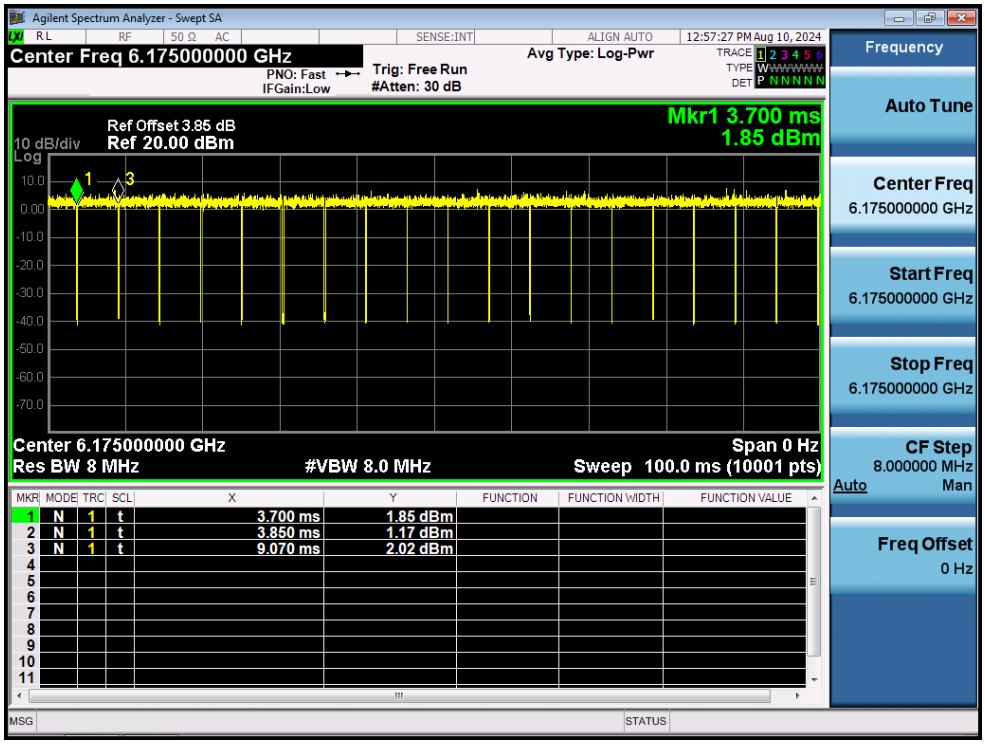
Duty Cycle NVNT ax20 7115MHz Ant1



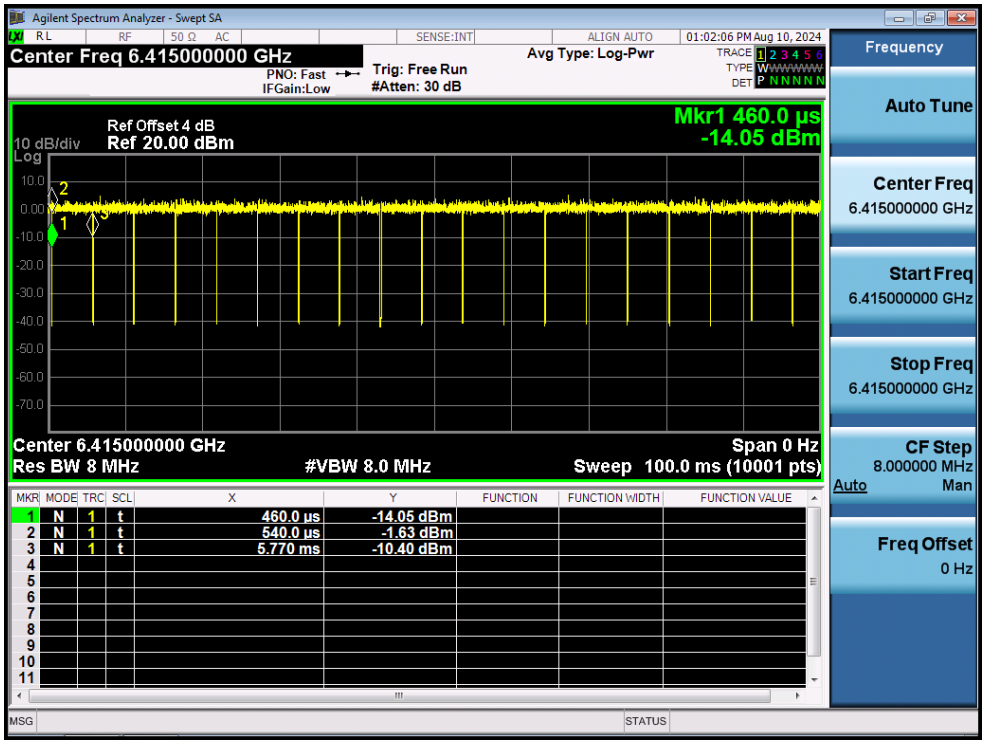
Duty Cycle NVNT ax20 5955MHz Ant2



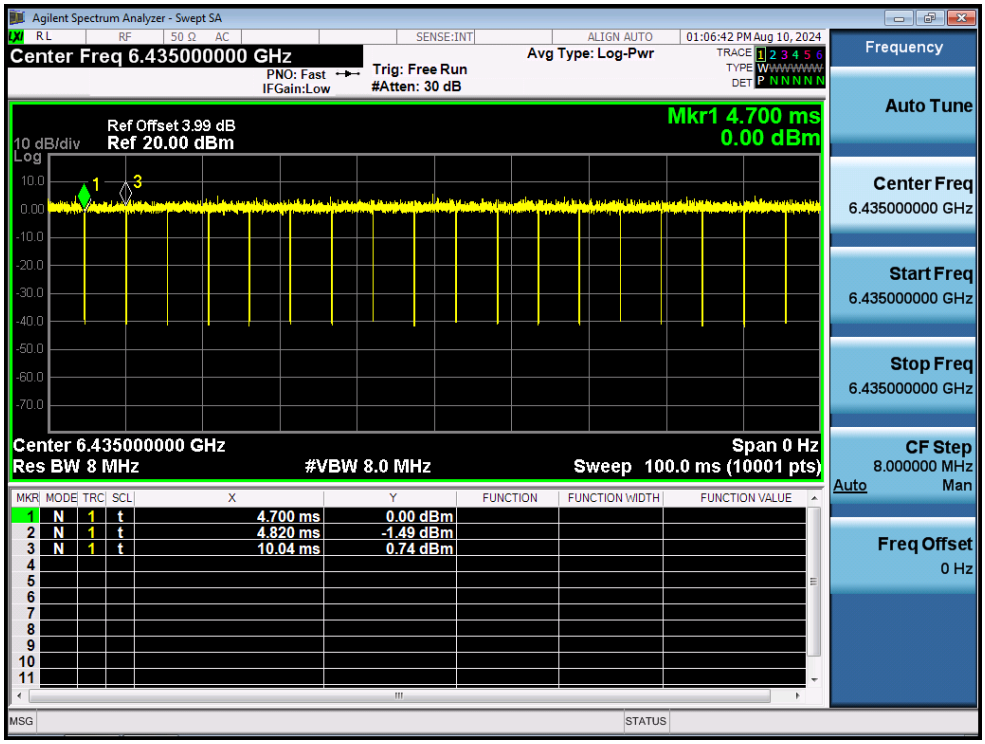
Duty Cycle NVNT ax20 6175MHz Ant2



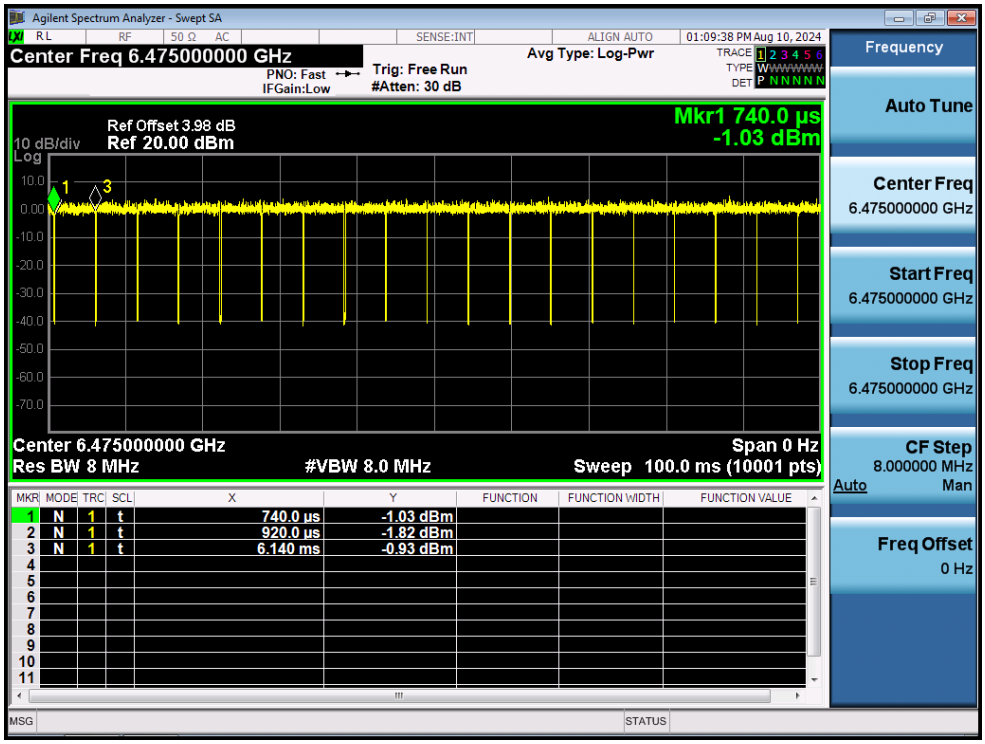
Duty Cycle NVNT ax20 6415MHz Ant2



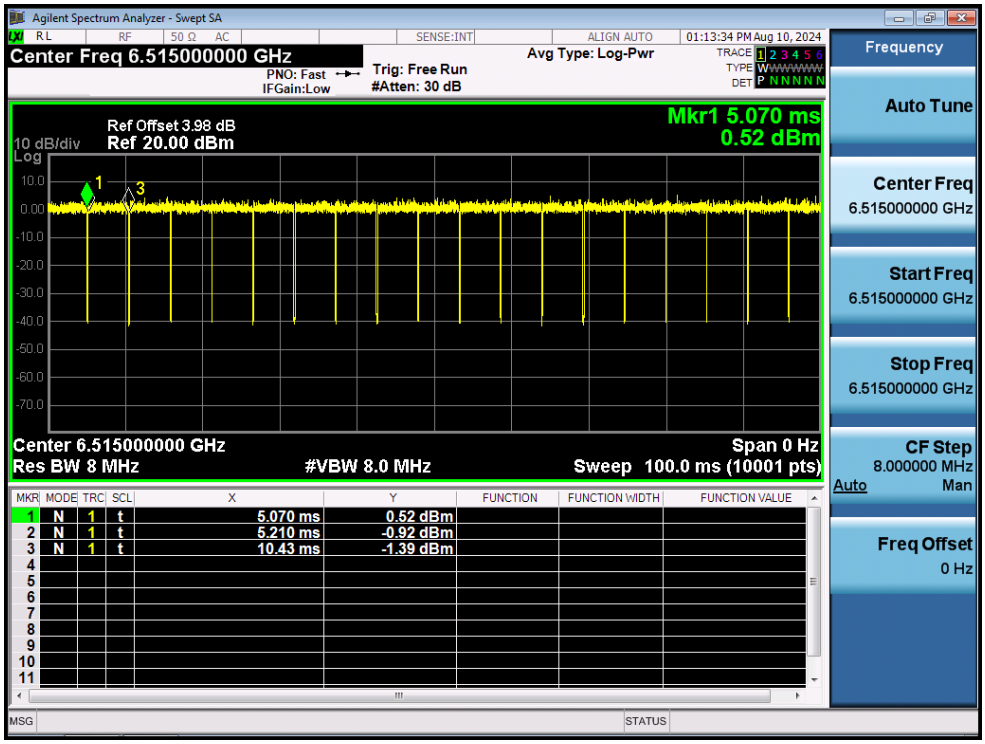
Duty Cycle NVNT ax20 6435MHz Ant2



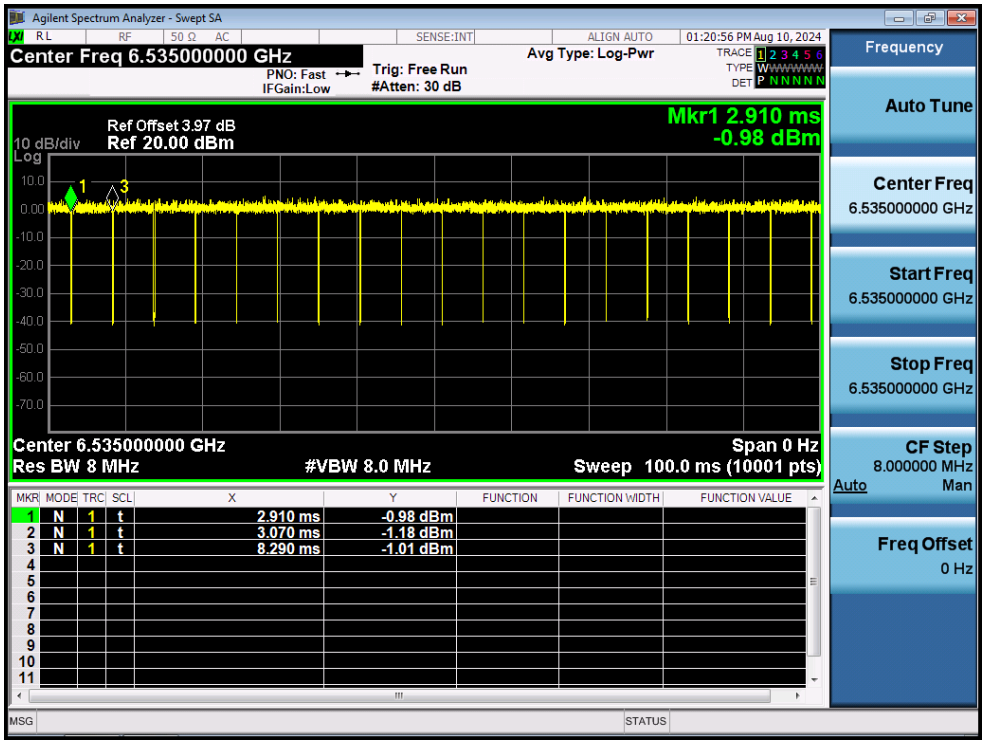
Duty Cycle NVNT ax20 6475MHz Ant2



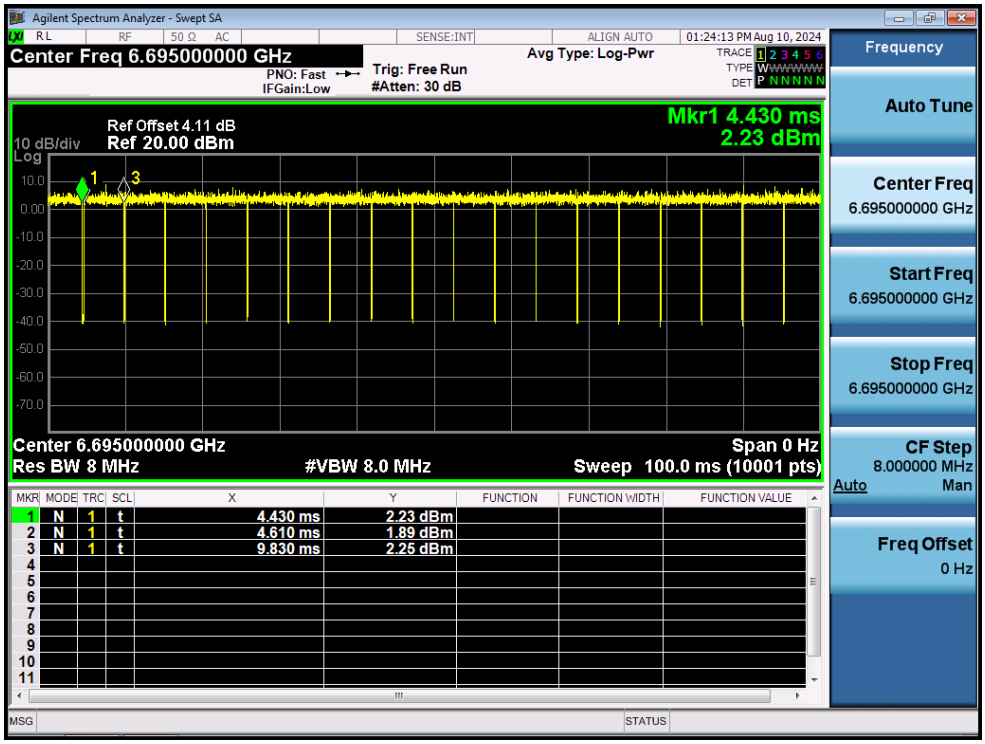
Duty Cycle NVNT ax20 6515MHz Ant2



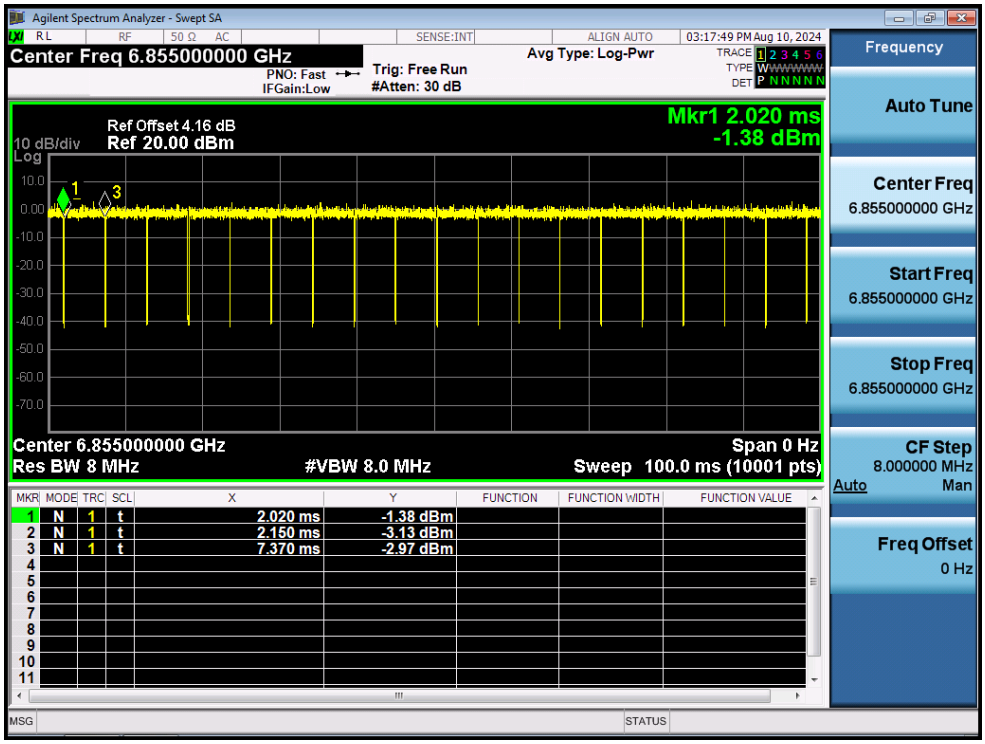
Duty Cycle NVNT ax20 6535MHz Ant2



Duty Cycle NVNT ax20 6695MHz Ant2



Duty Cycle NVNT ax20 6855MHz Ant2



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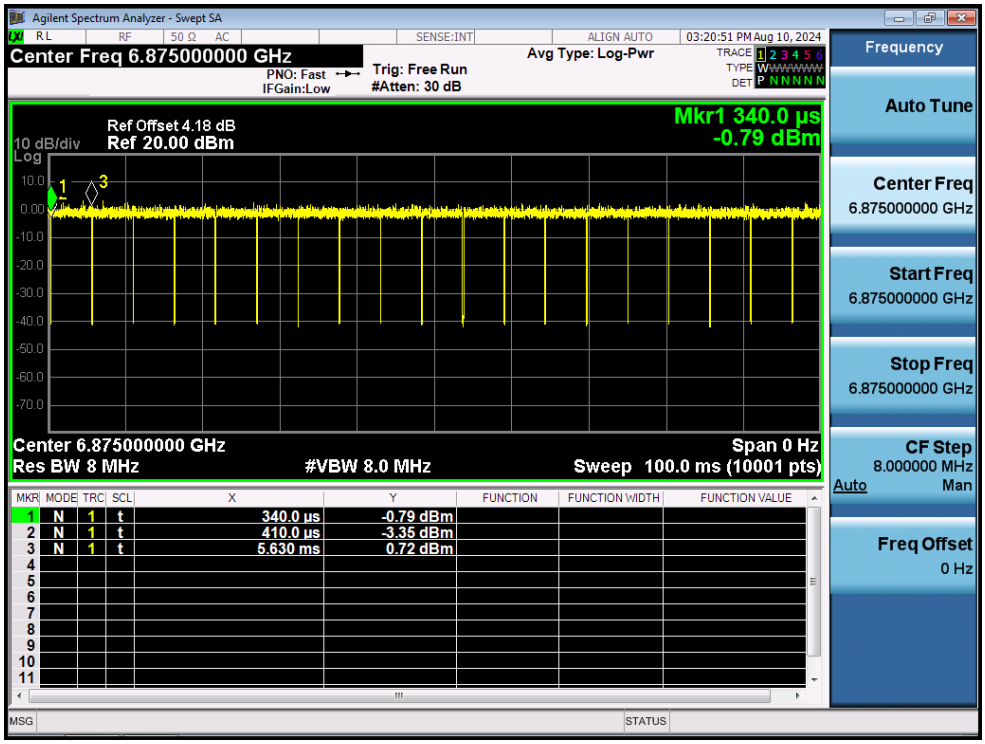
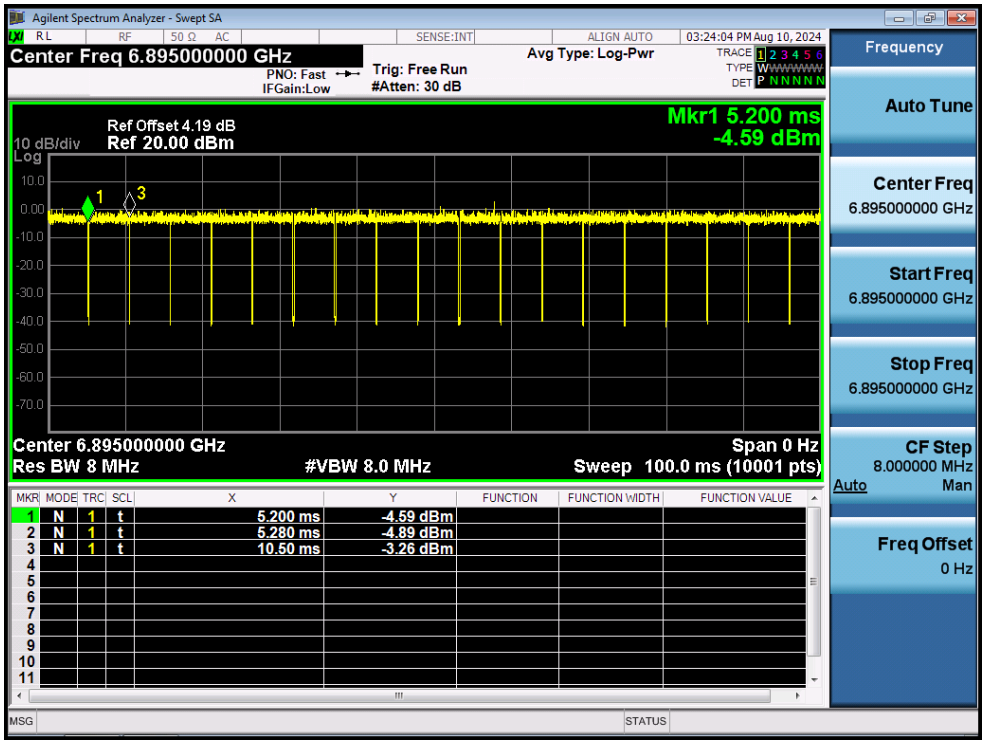


Duty Cycle NVNT ax20 6895MHz Ant2



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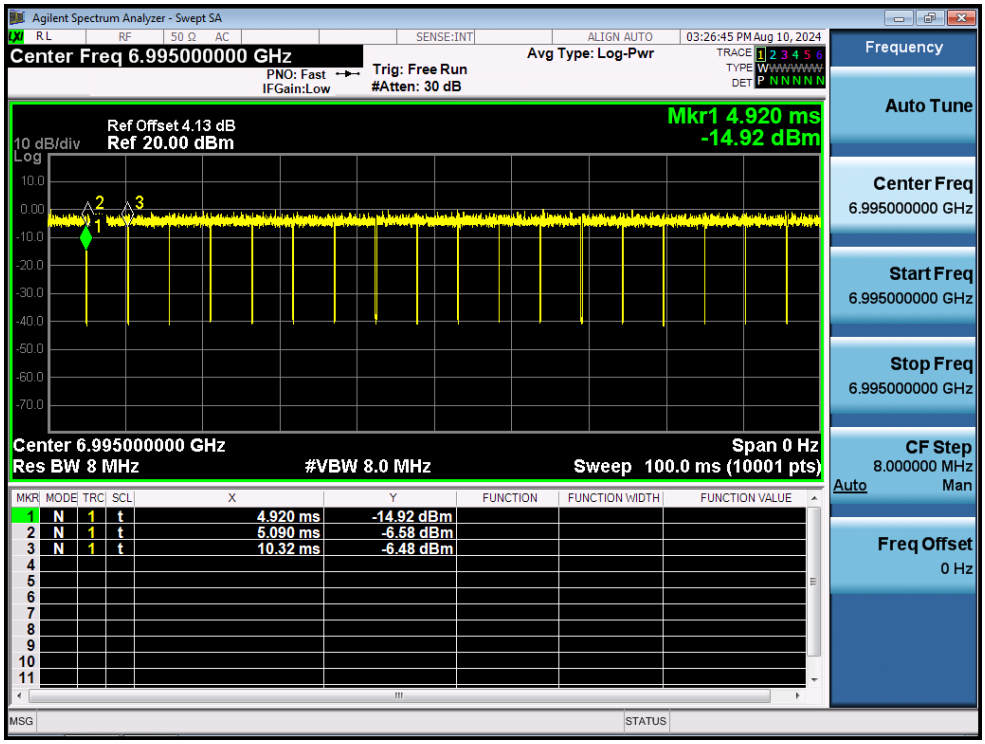
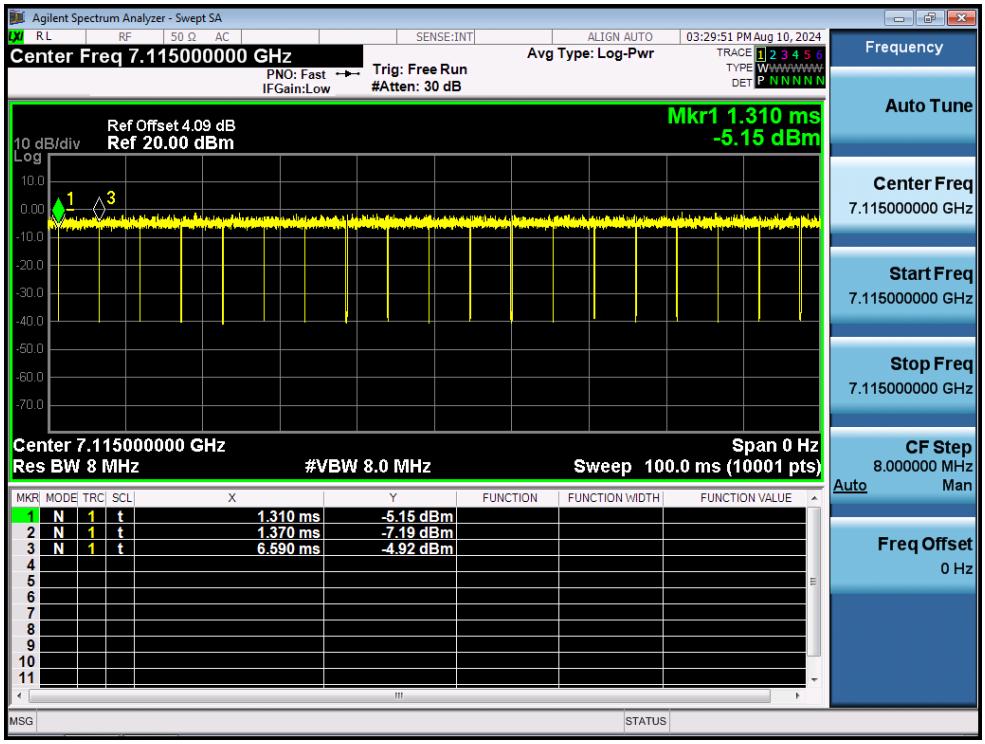
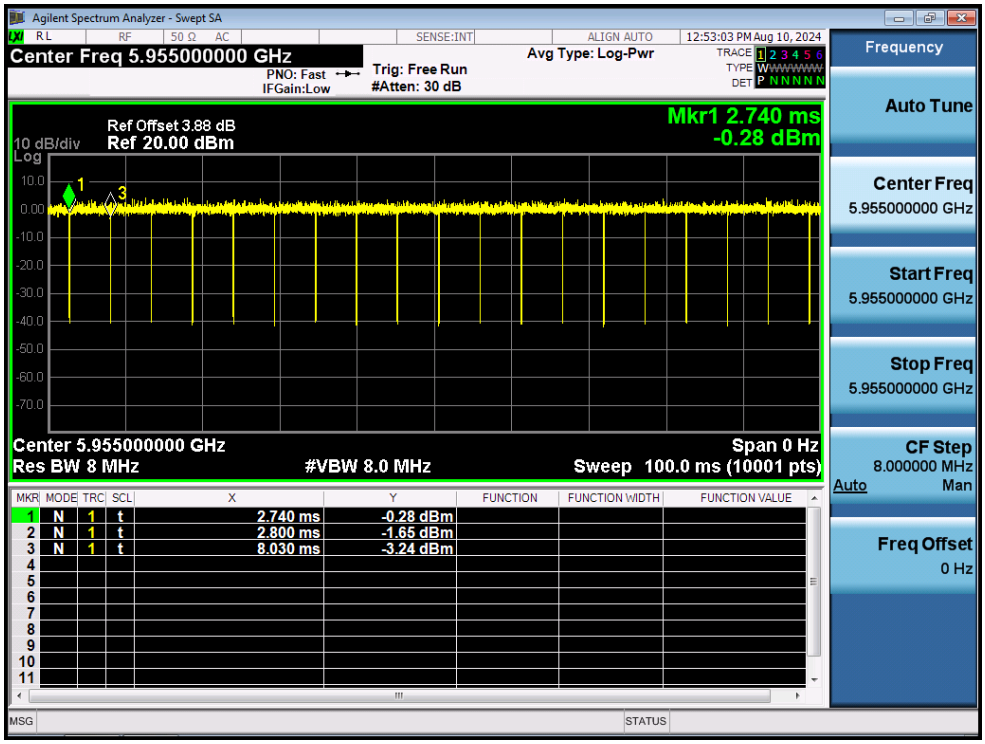


Duty Cycle NVNT ax20 7115MHz Ant2



Duty Cycle NVNT ax20 5955MHz Ant3



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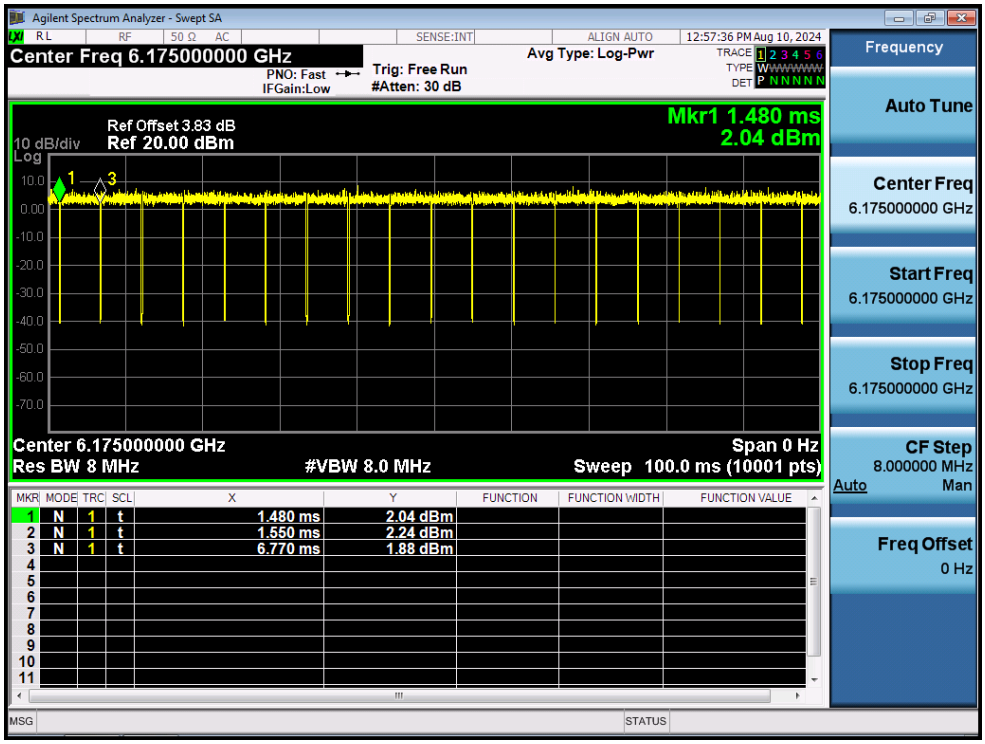
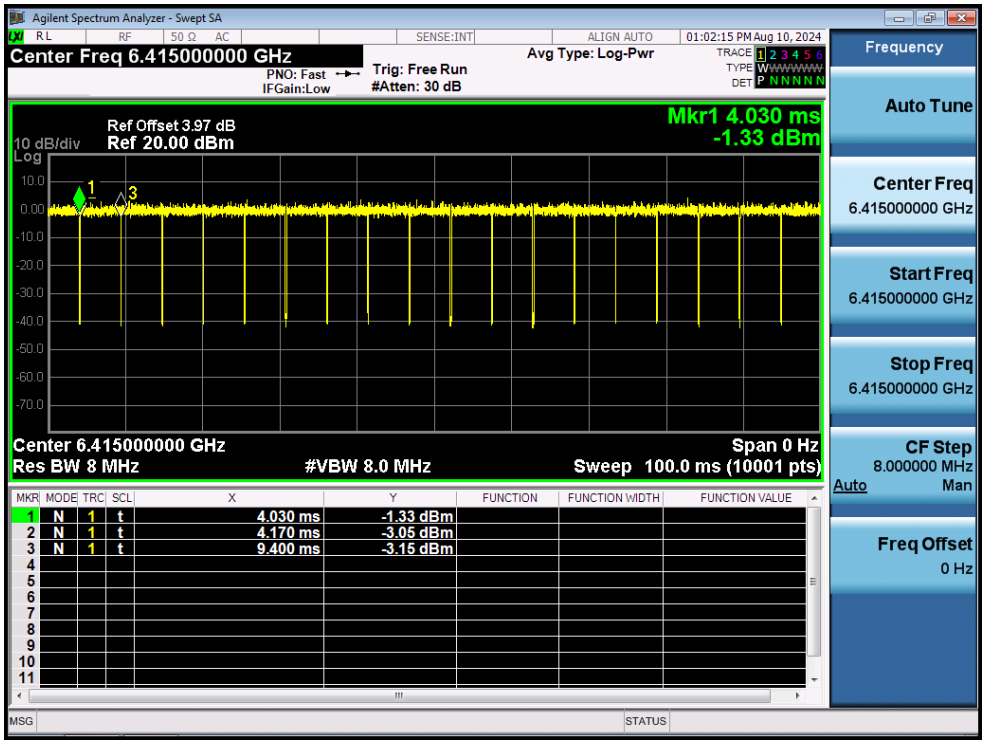
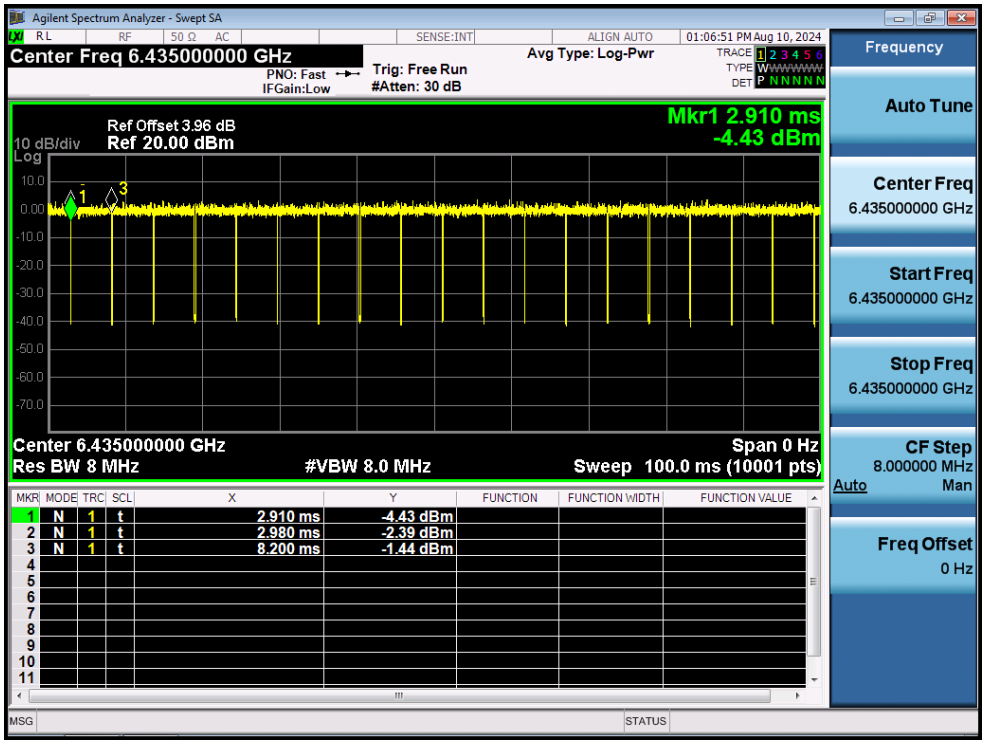


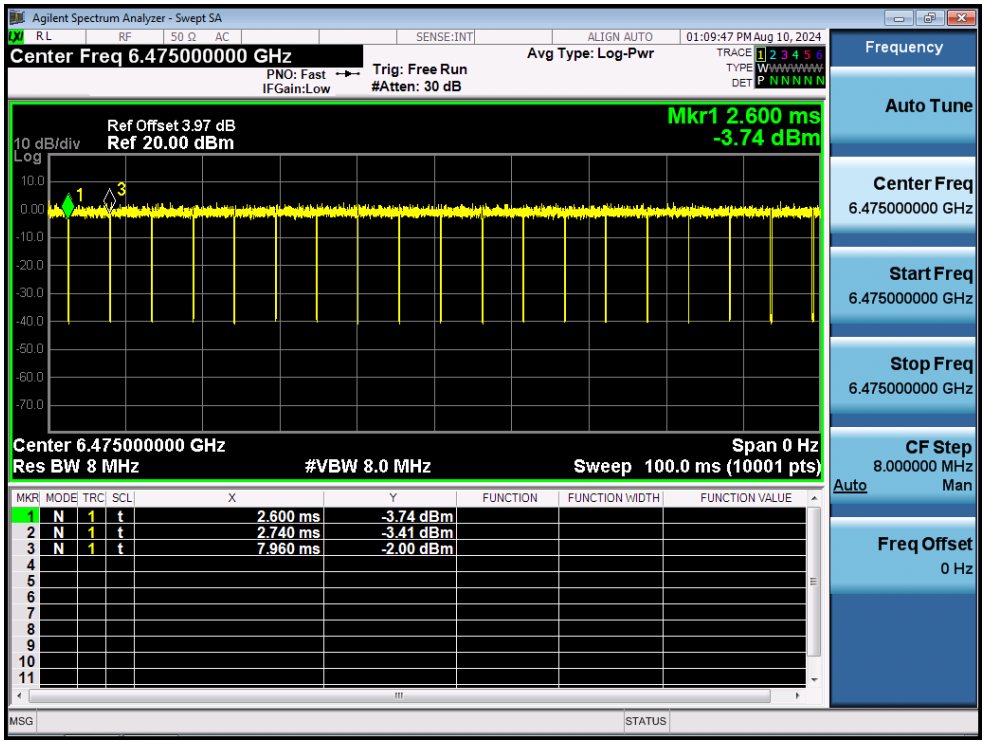
Duty Cycle NVNT ax20 6415MHz Ant3



Duty Cycle NVNT ax20 6435MHz Ant3



Duty Cycle NVNT ax20 6475MHz Ant3



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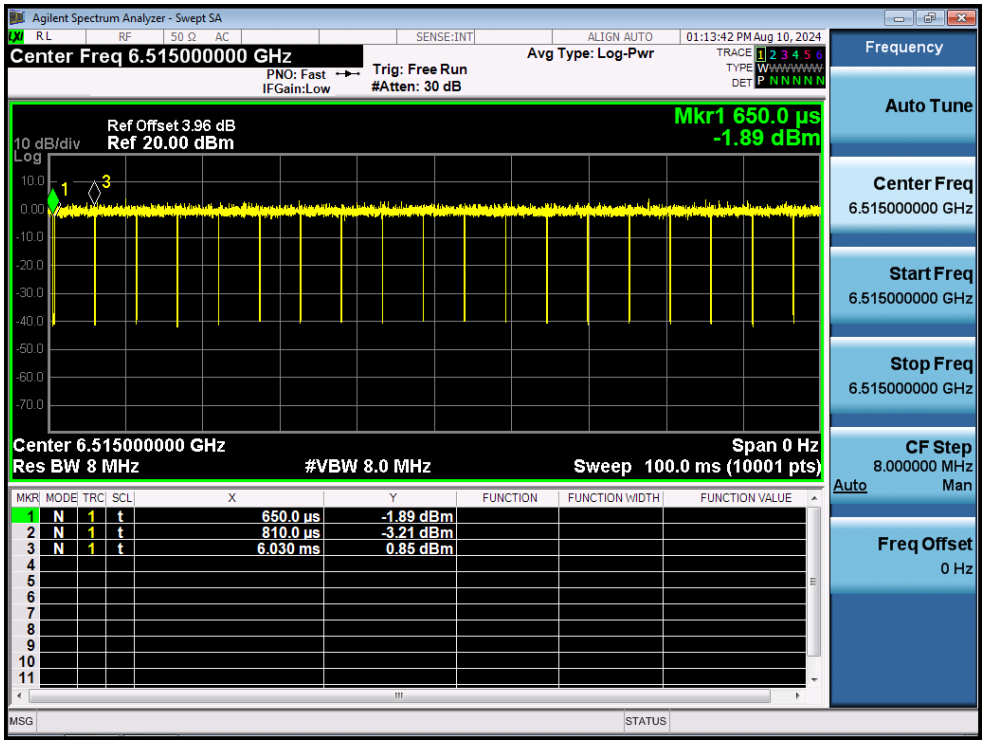

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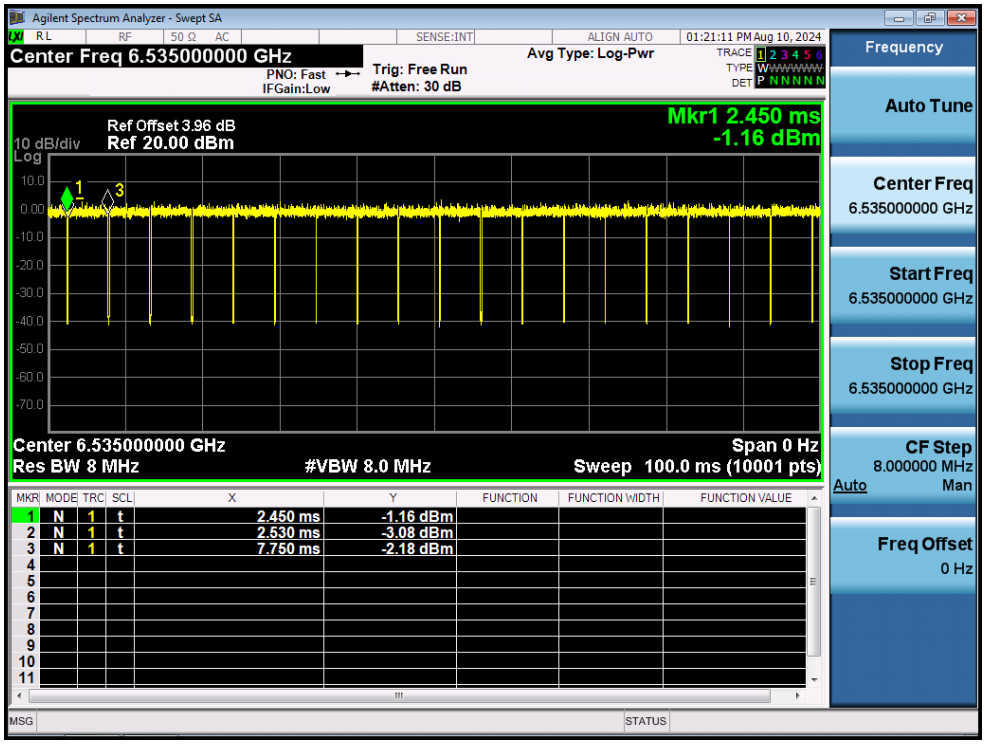
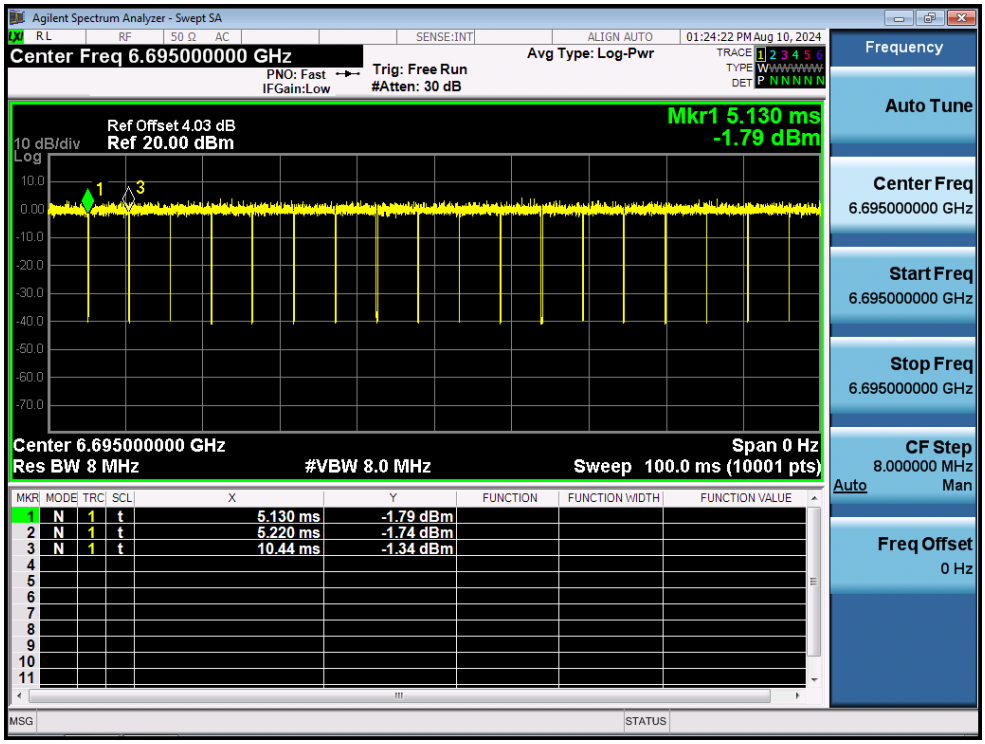


Duty Cycle NVNT ax20 6695MHz Ant3



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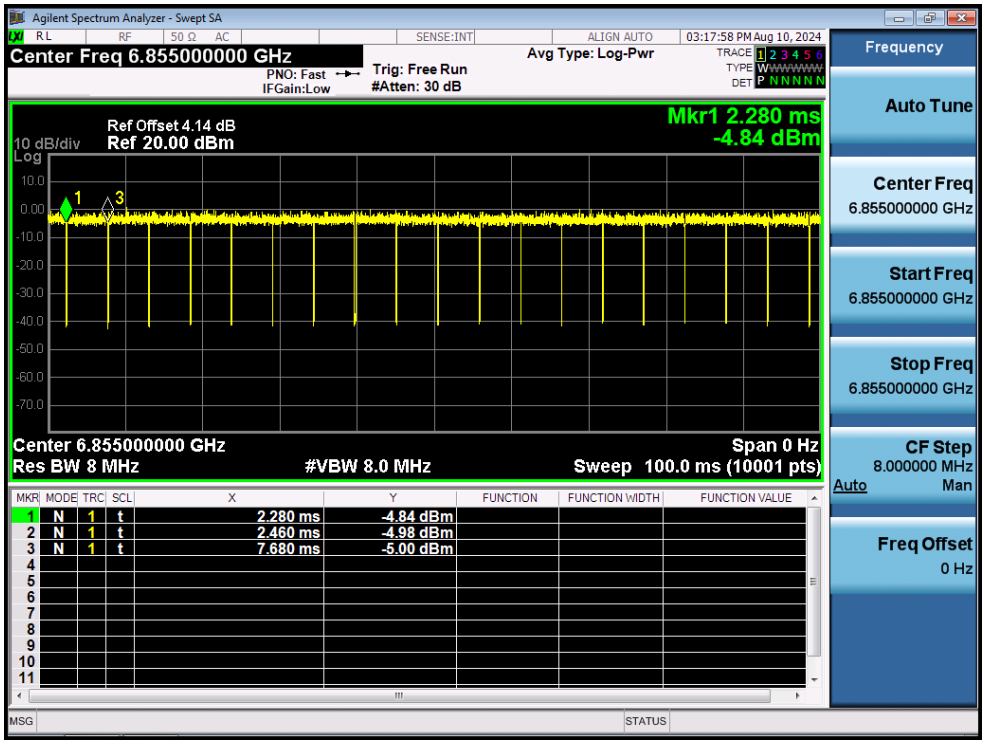

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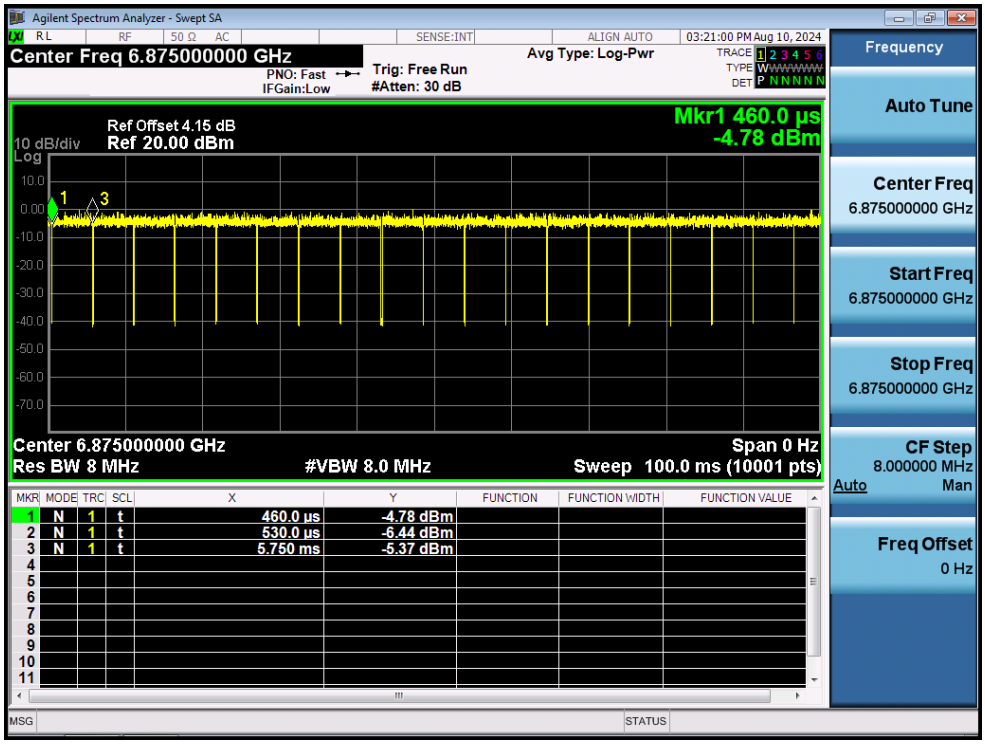
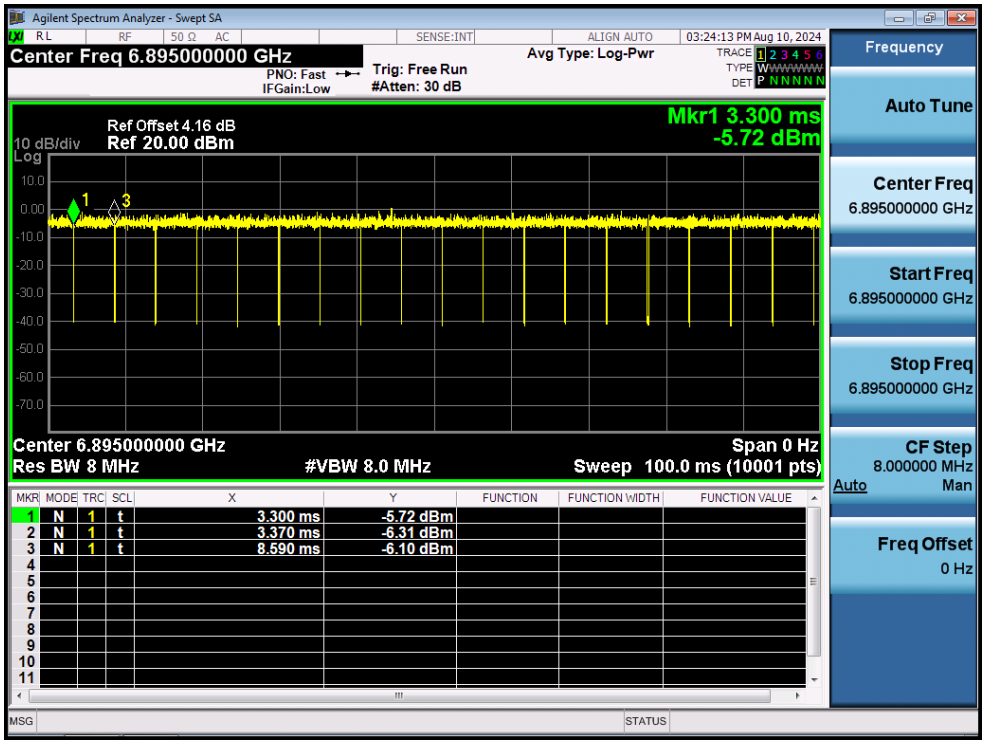
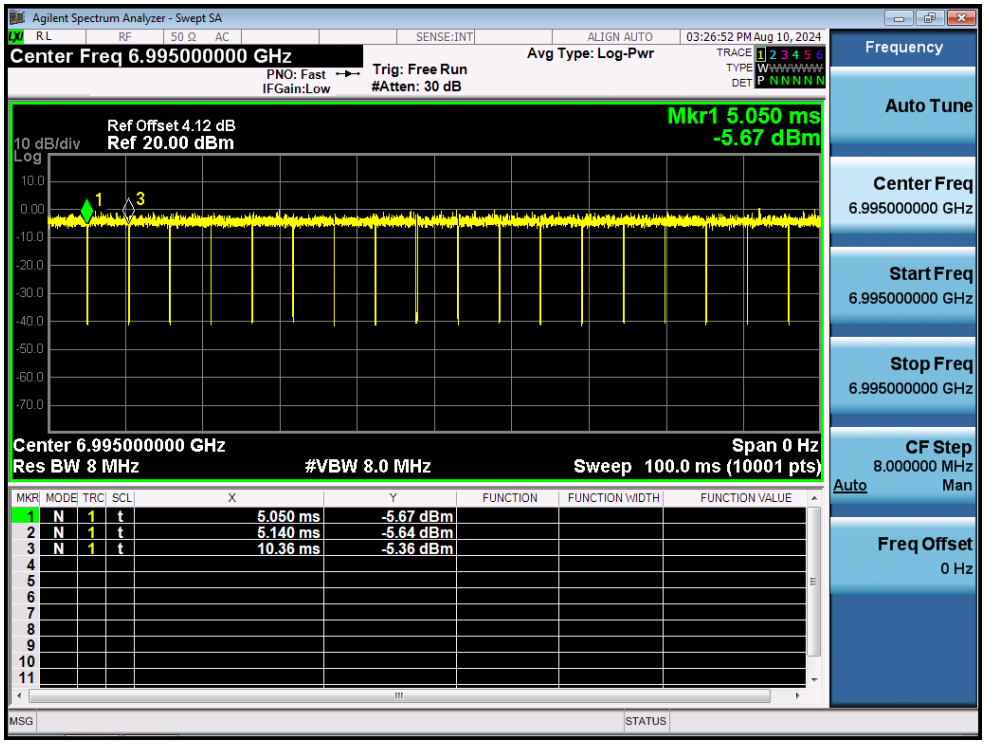


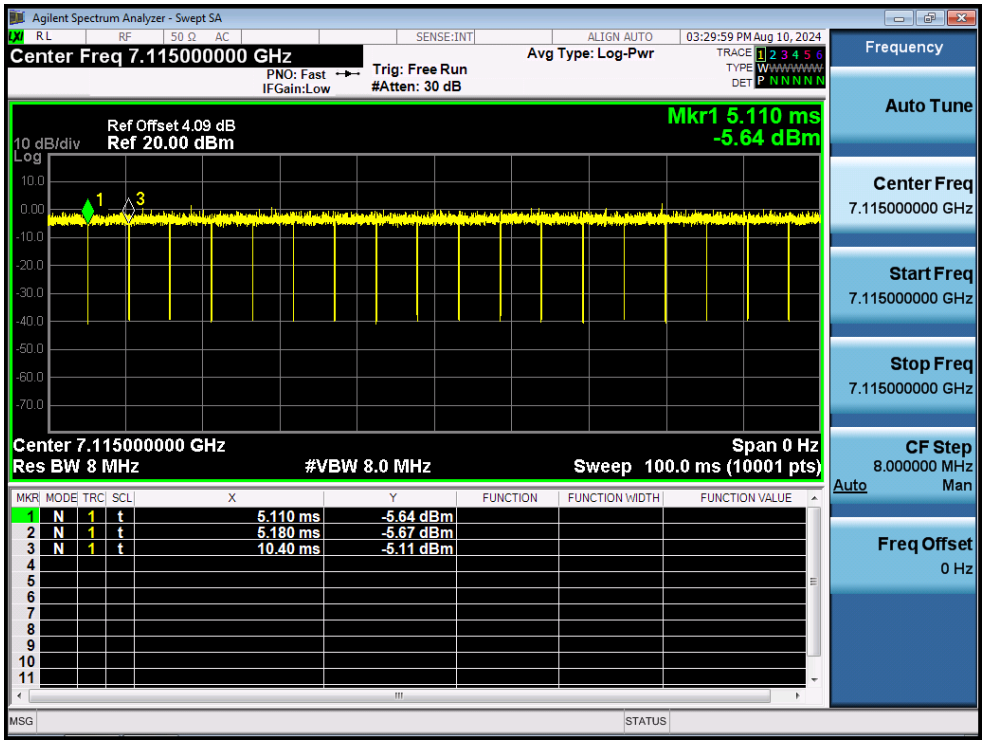
Duty Cycle NVNT ax20 6895MHz Ant3



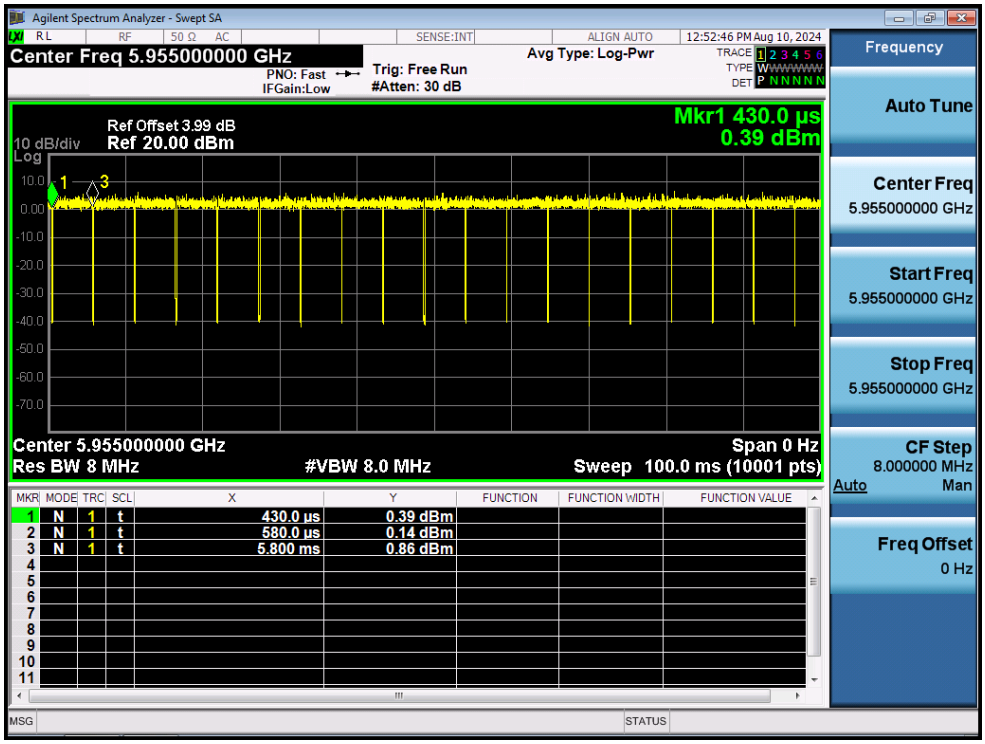
Duty Cycle NVNT ax20 6995MHz Ant3



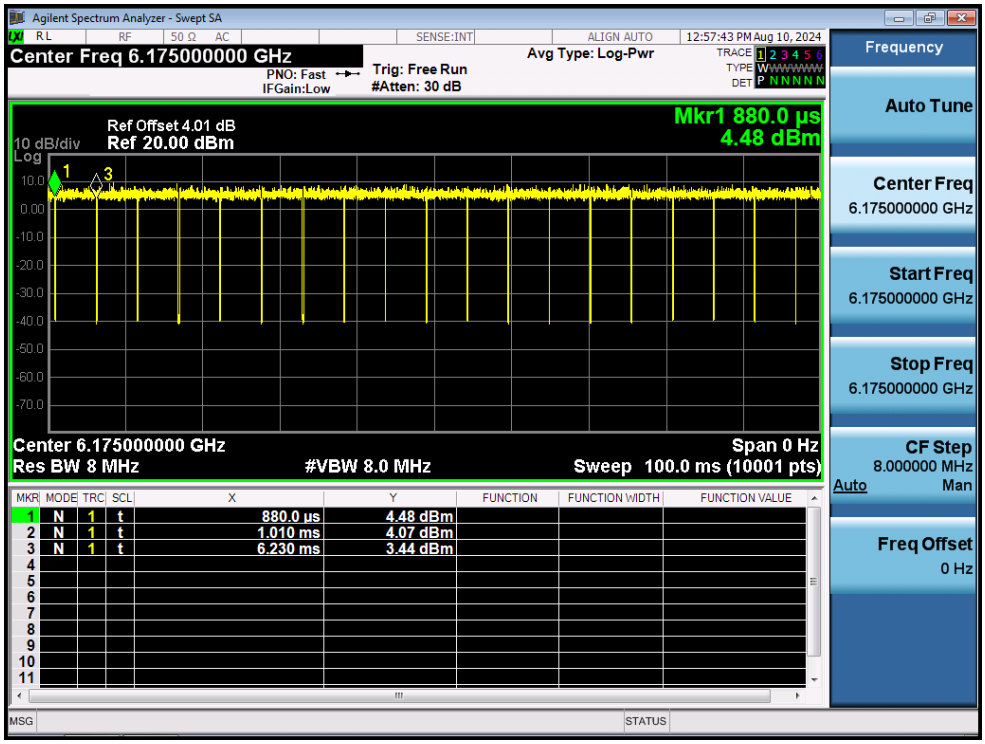
Duty Cycle NVNT ax20 7115MHz Ant3



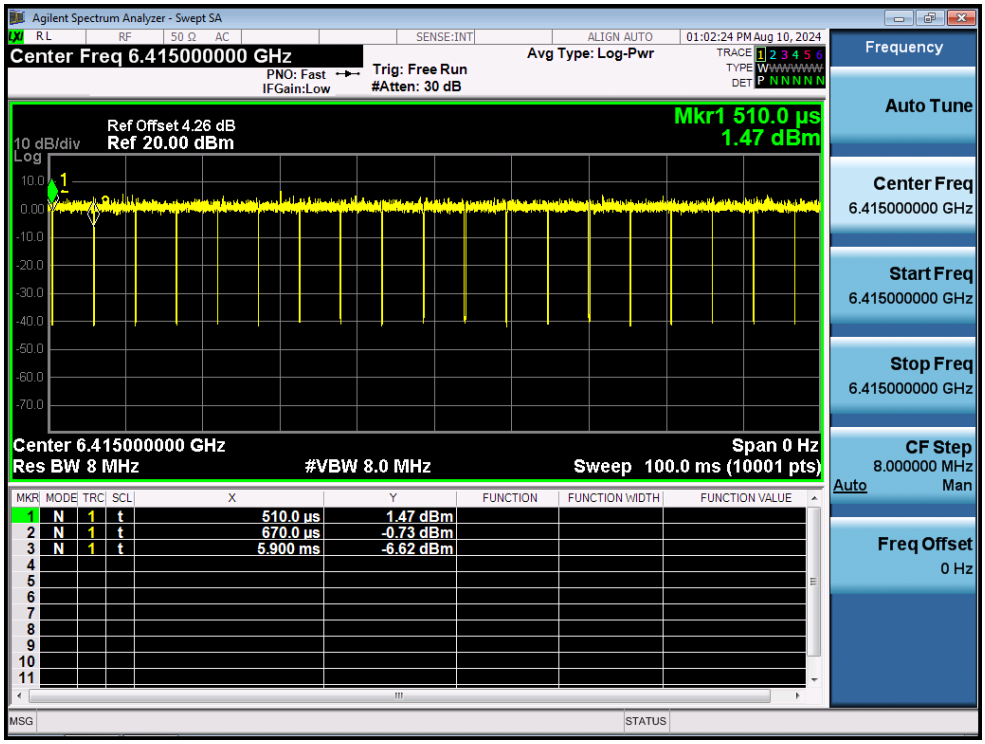
Duty Cycle NVNT ax20 5955MHz Ant4



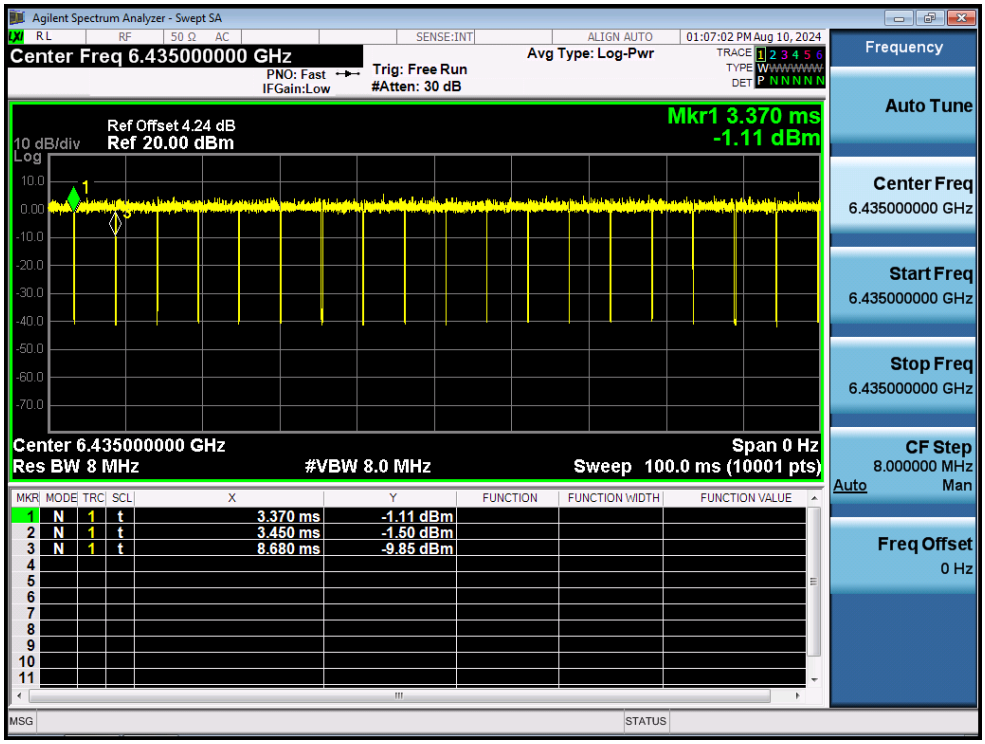
Duty Cycle NVNT ax20 6175MHz Ant4



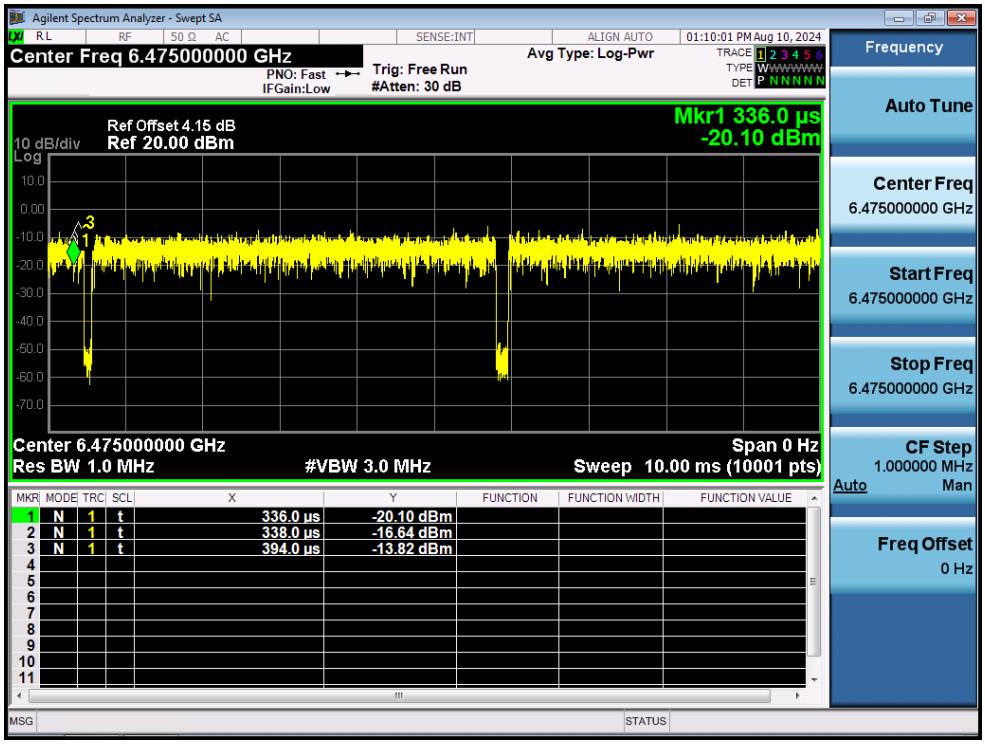
Duty Cycle NVNT ax20 6415MHz Ant4



Duty Cycle NVNT ax20 6435MHz Ant4



Duty Cycle NVNT ax20 6475MHz Ant4



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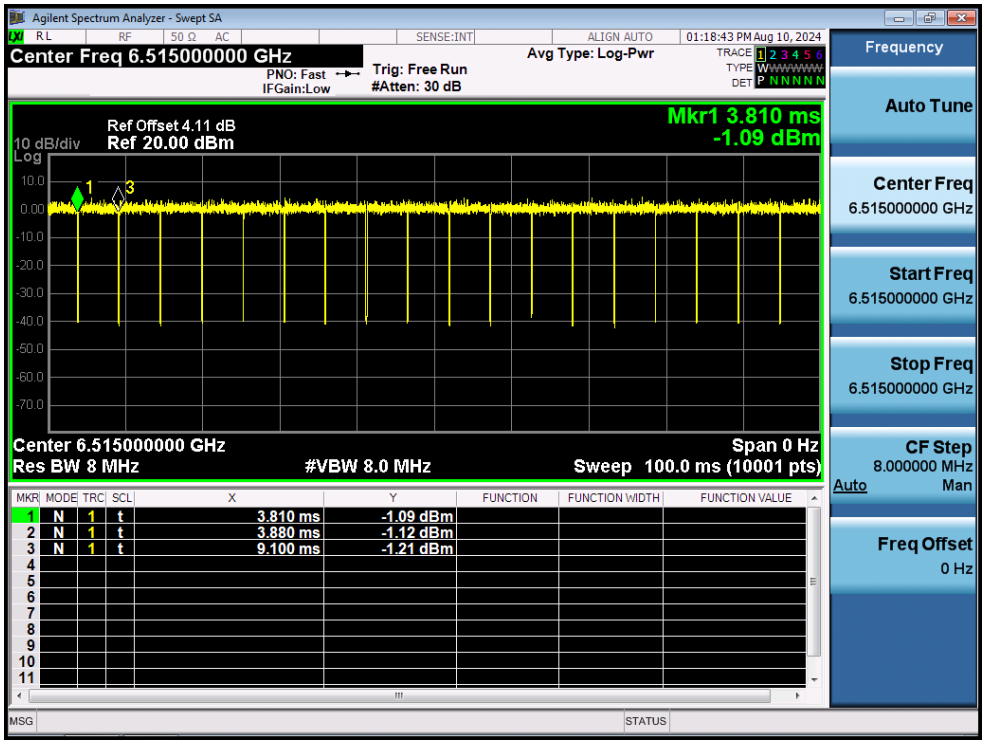
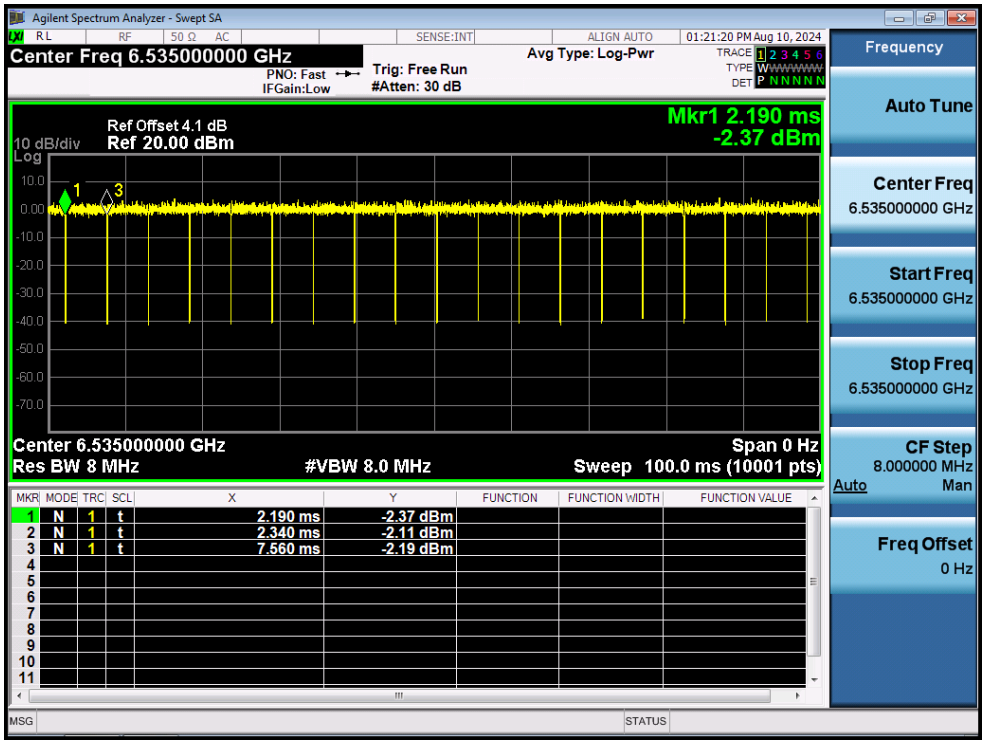


Duty Cycle NVNT ax20 6535MHz Ant4



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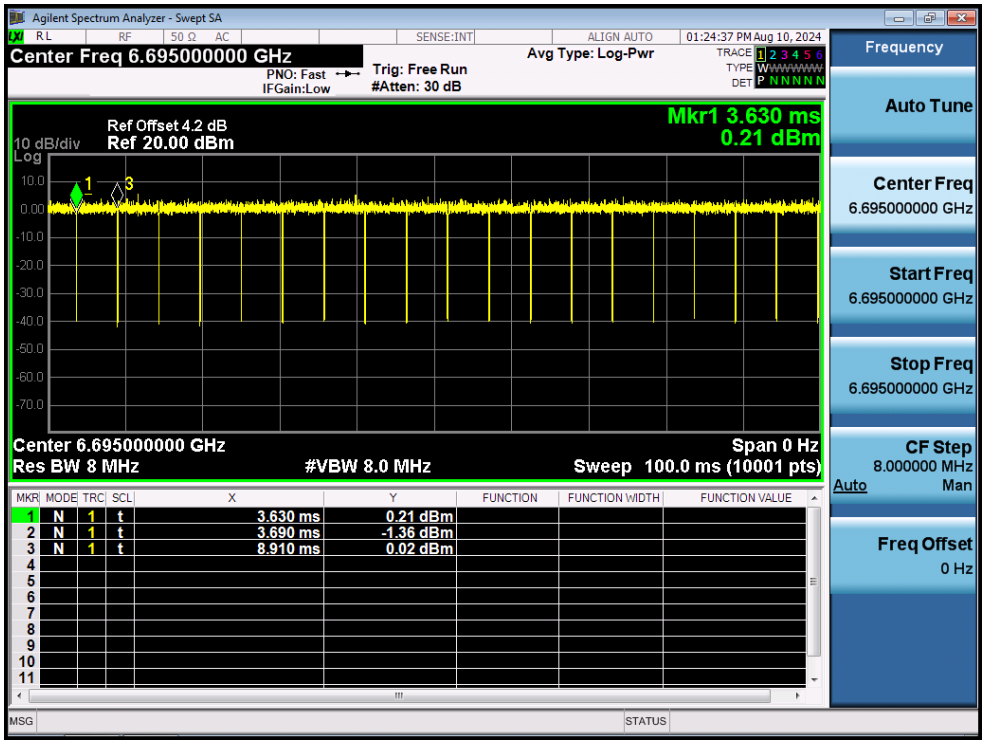

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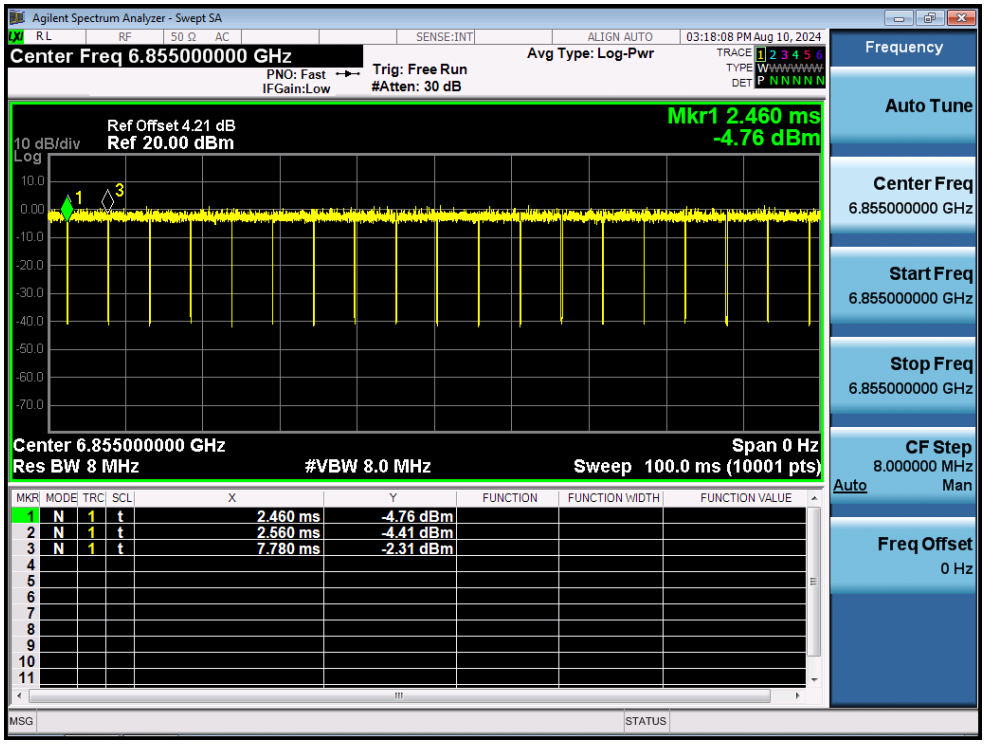
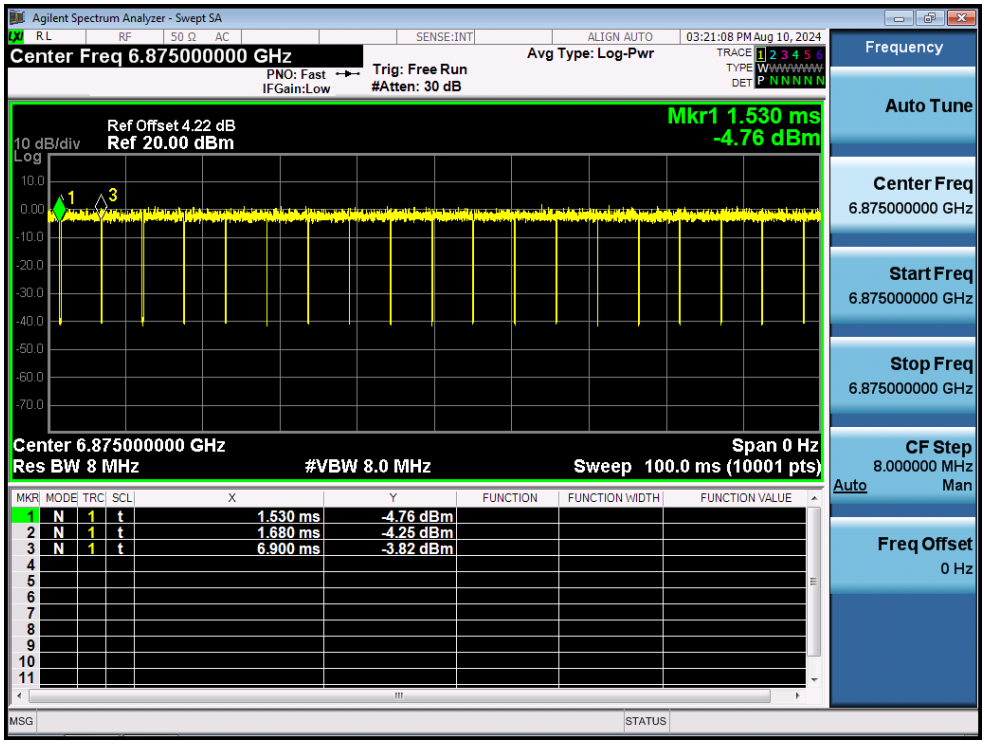


Duty Cycle NVNT ax20 6875MHz Ant4



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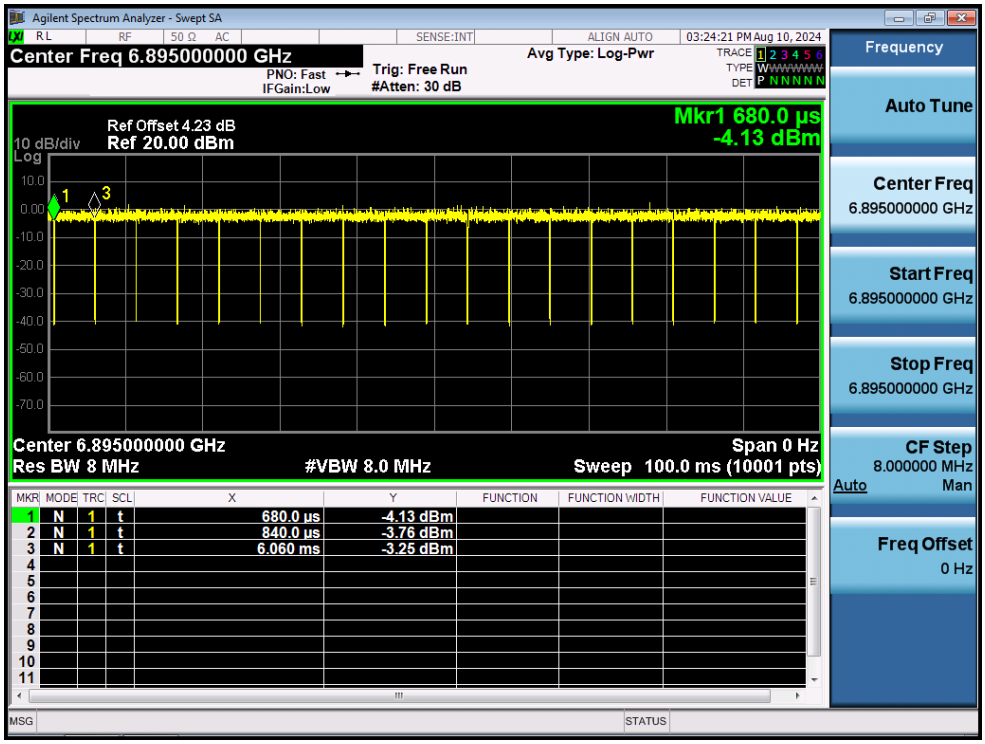
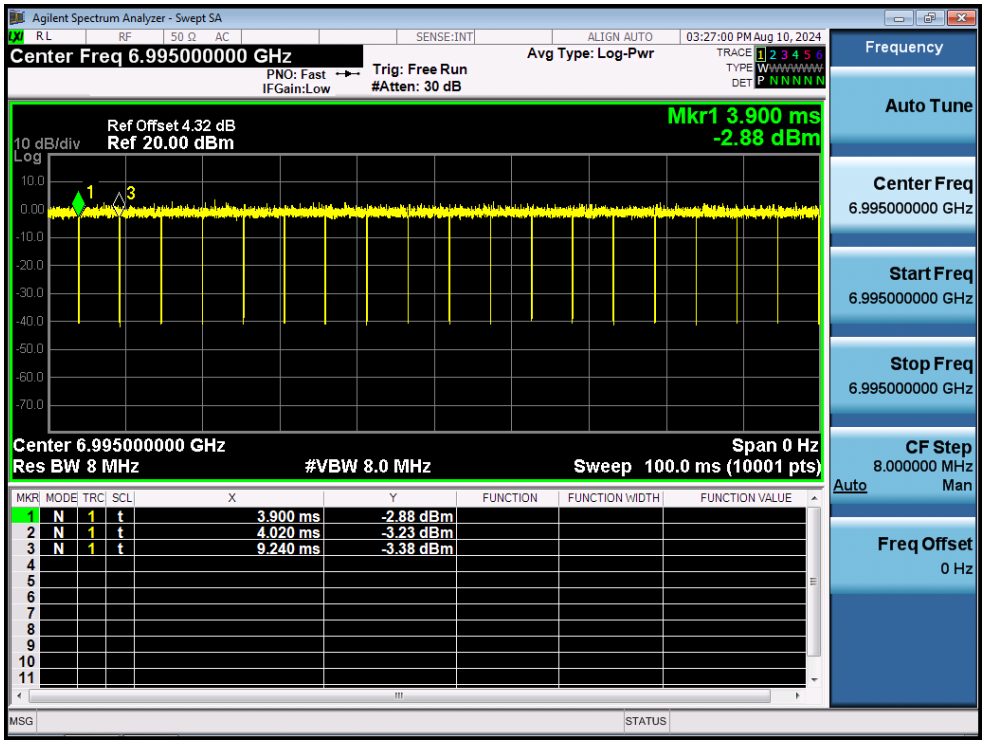


Duty Cycle NVNT ax20 6995MHz Ant4



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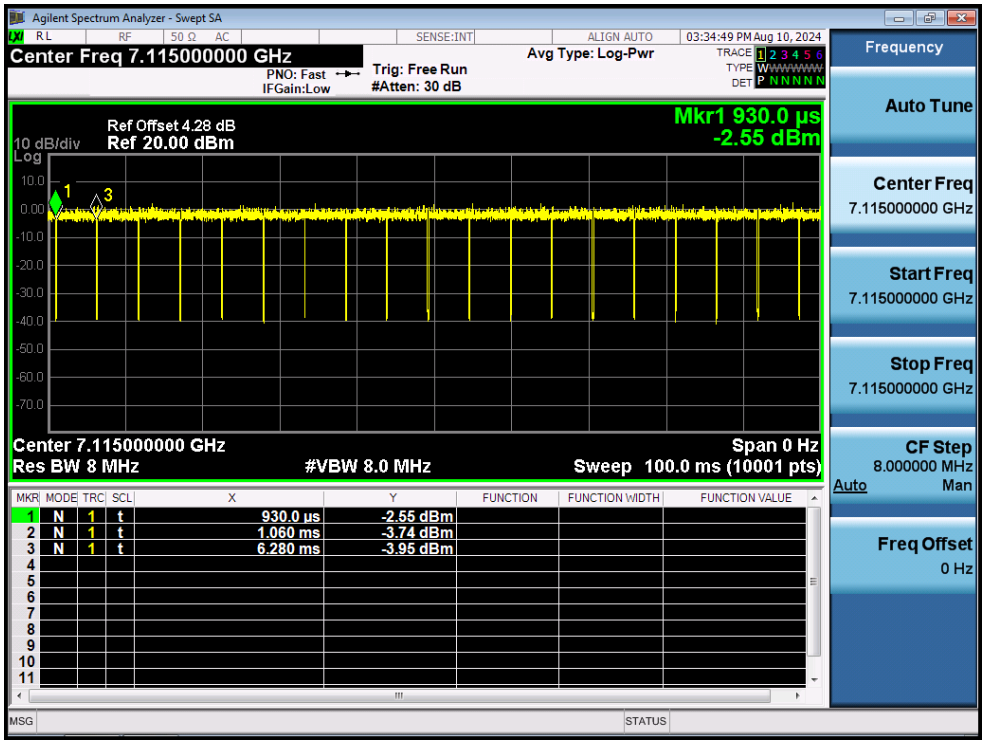

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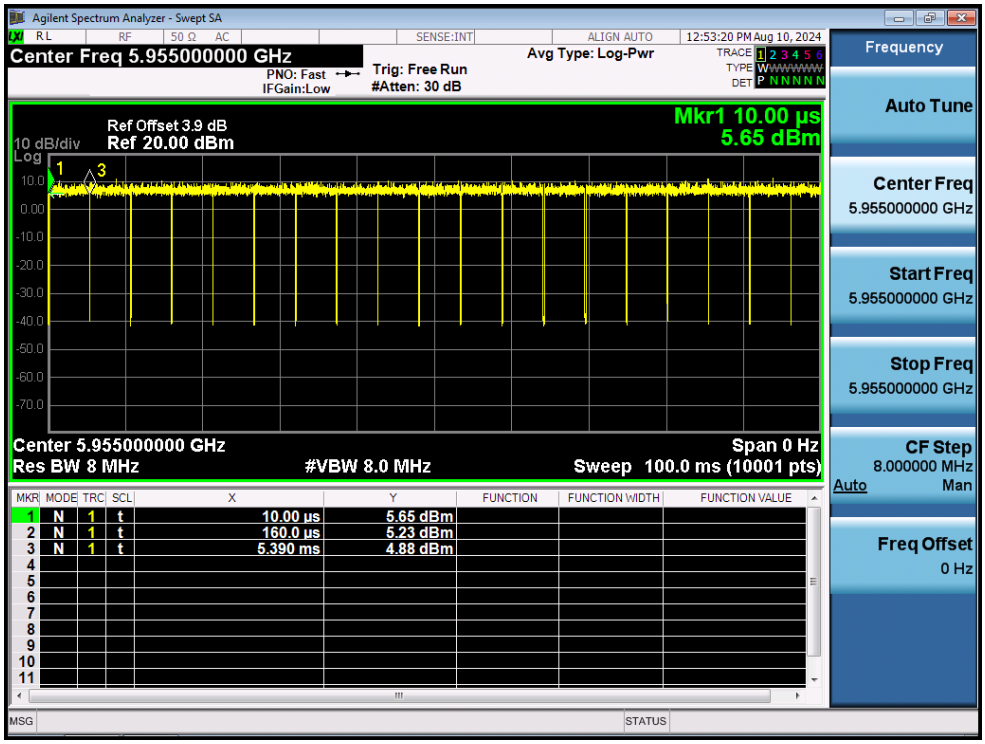

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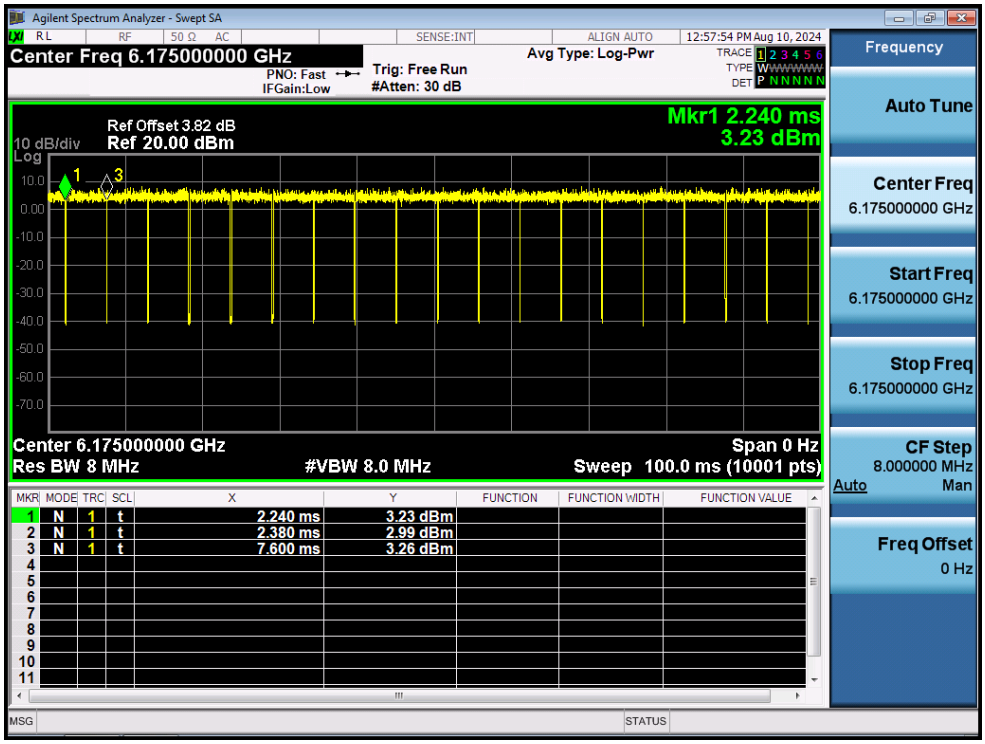
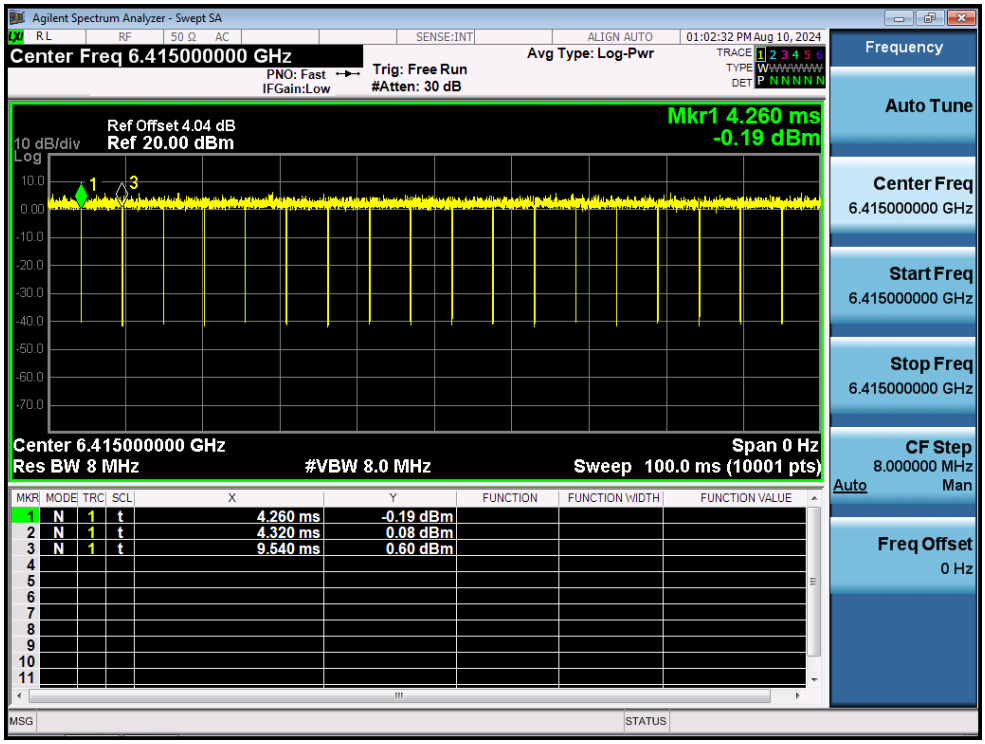


Duty Cycle NVNT ax20 6415MHz Sum



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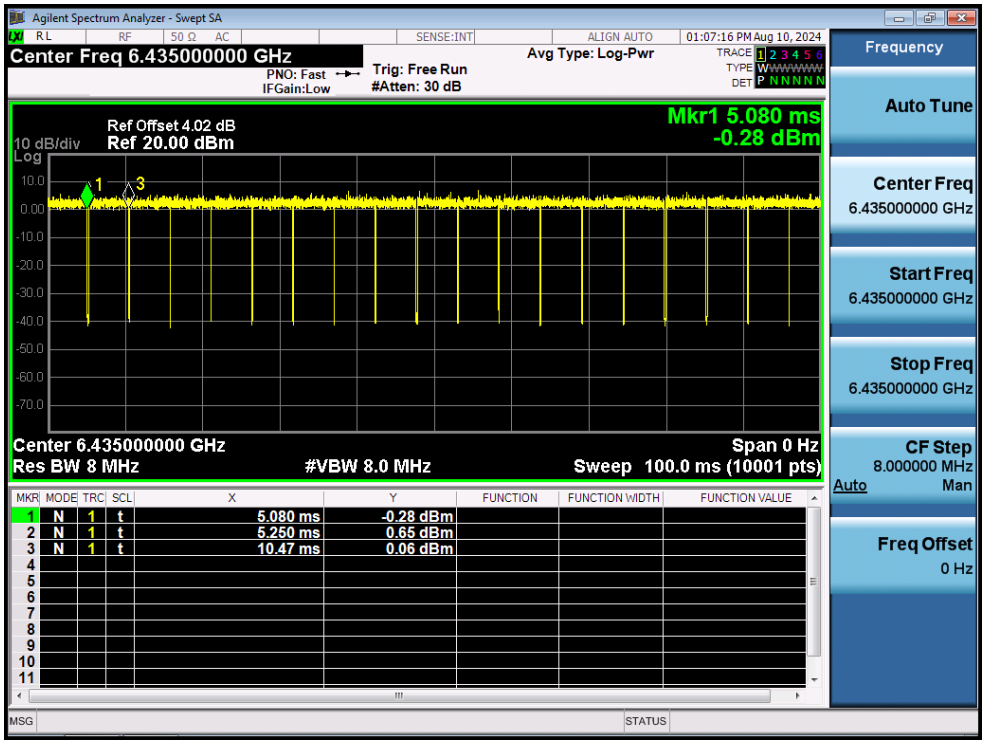

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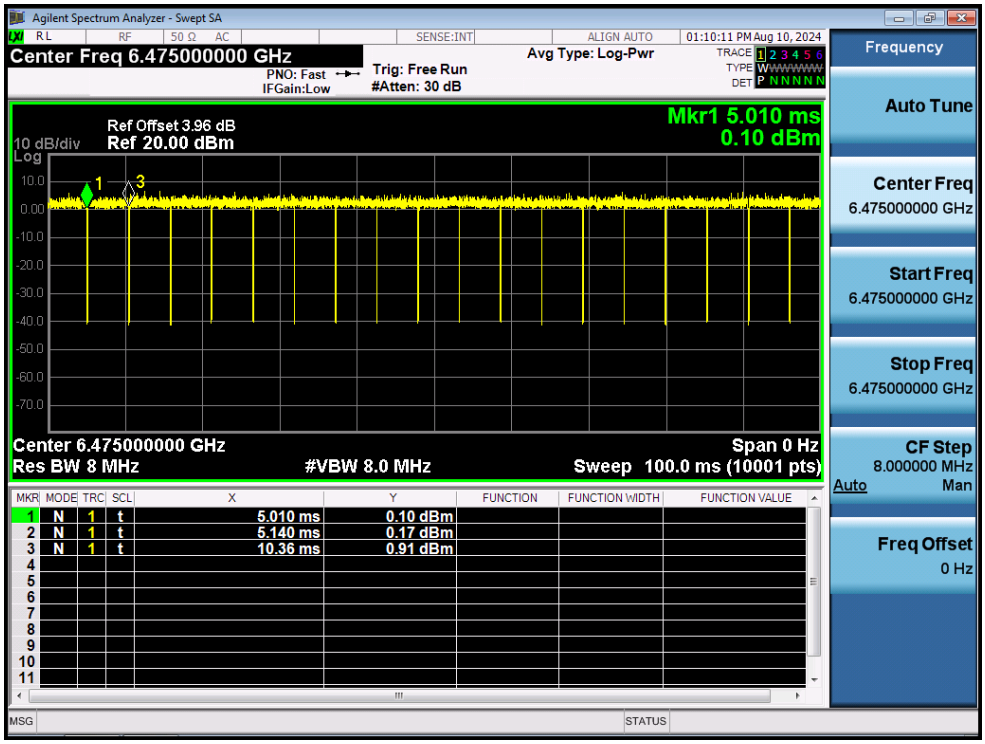
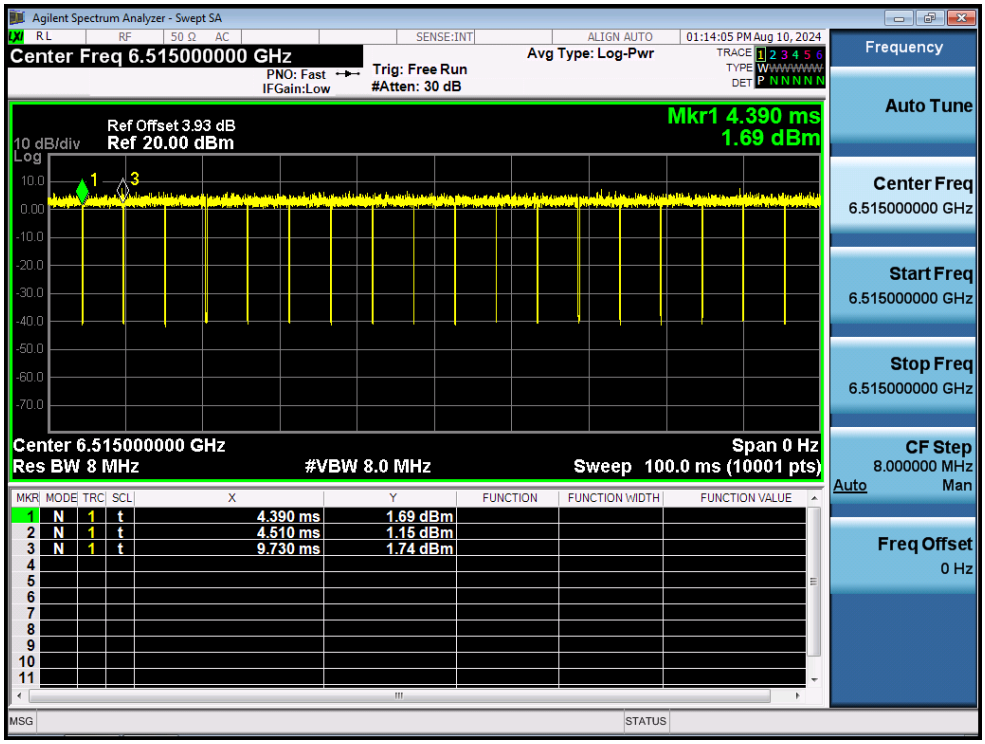
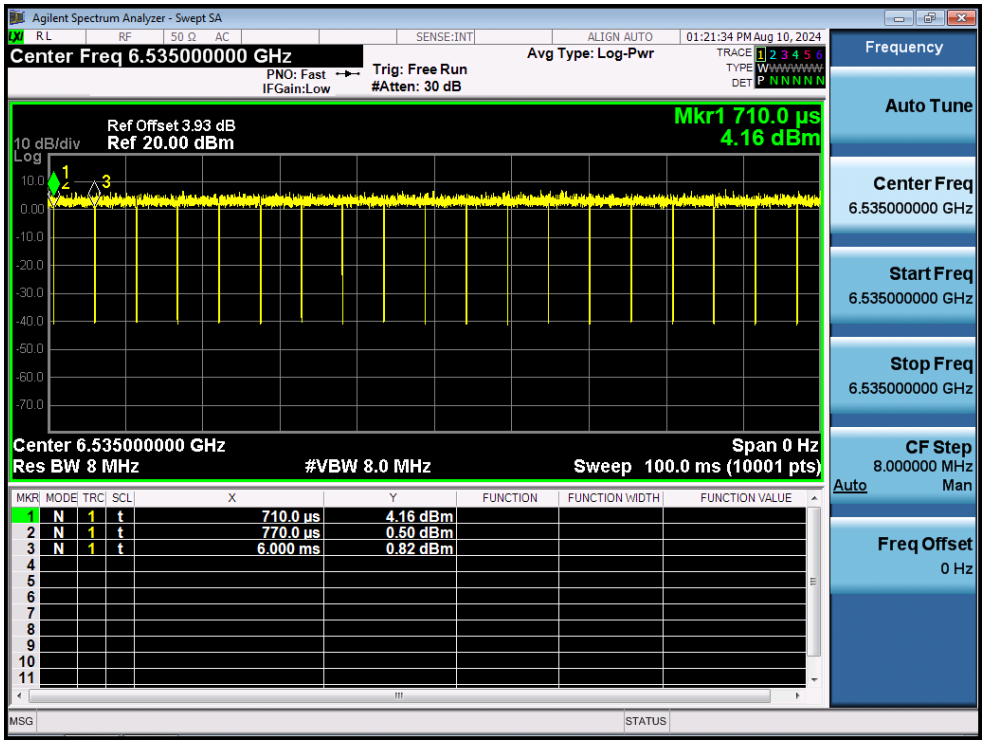


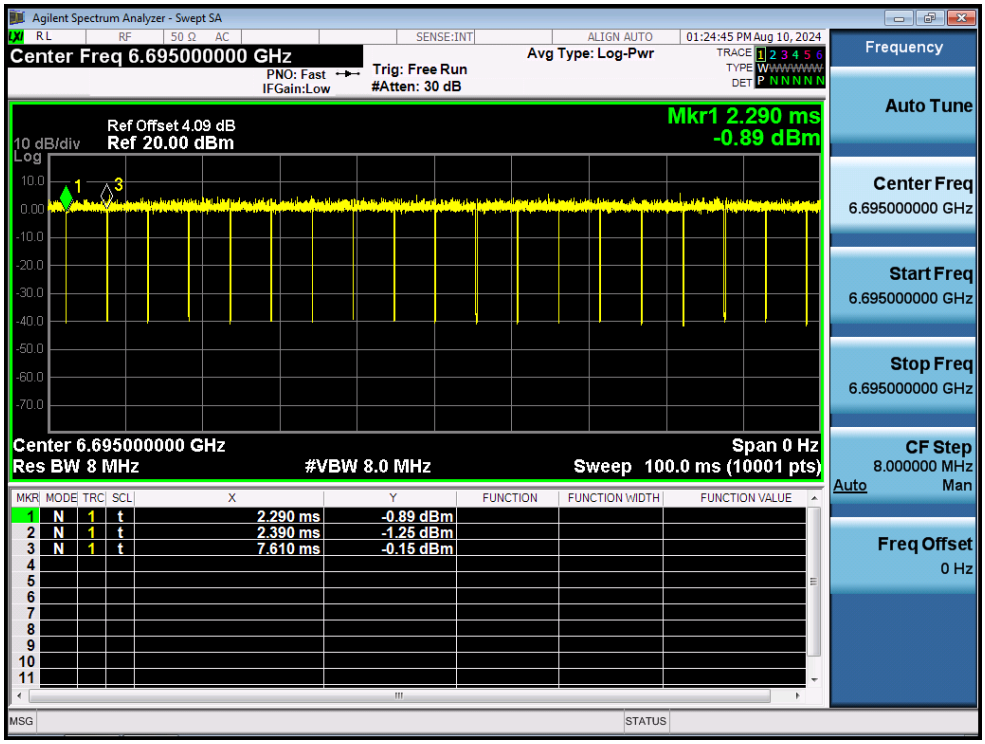
Duty Cycle NVNT ax20 6515MHz Sum



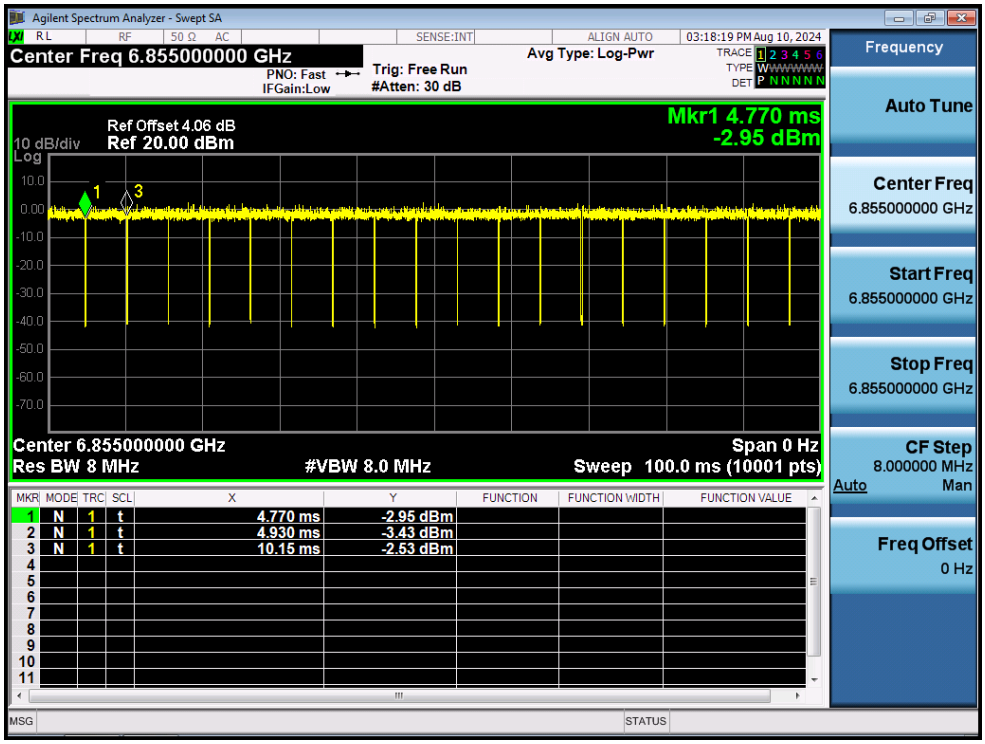
Duty Cycle NVNT ax20 6535MHz Sum



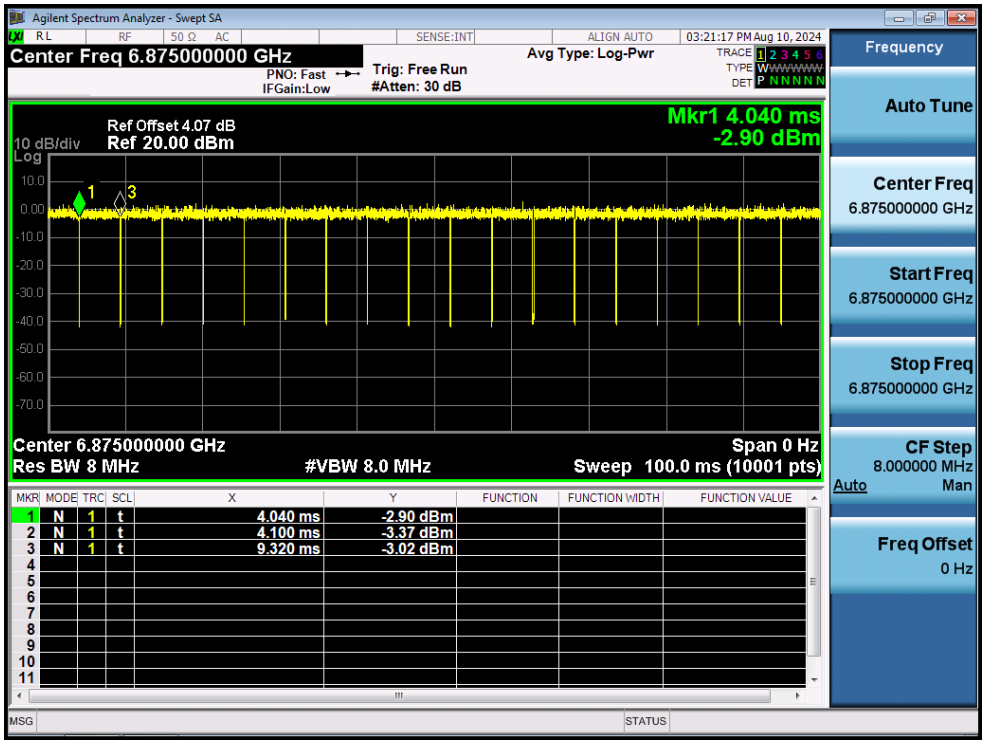
Duty Cycle NVNT ax20 6695MHz Sum



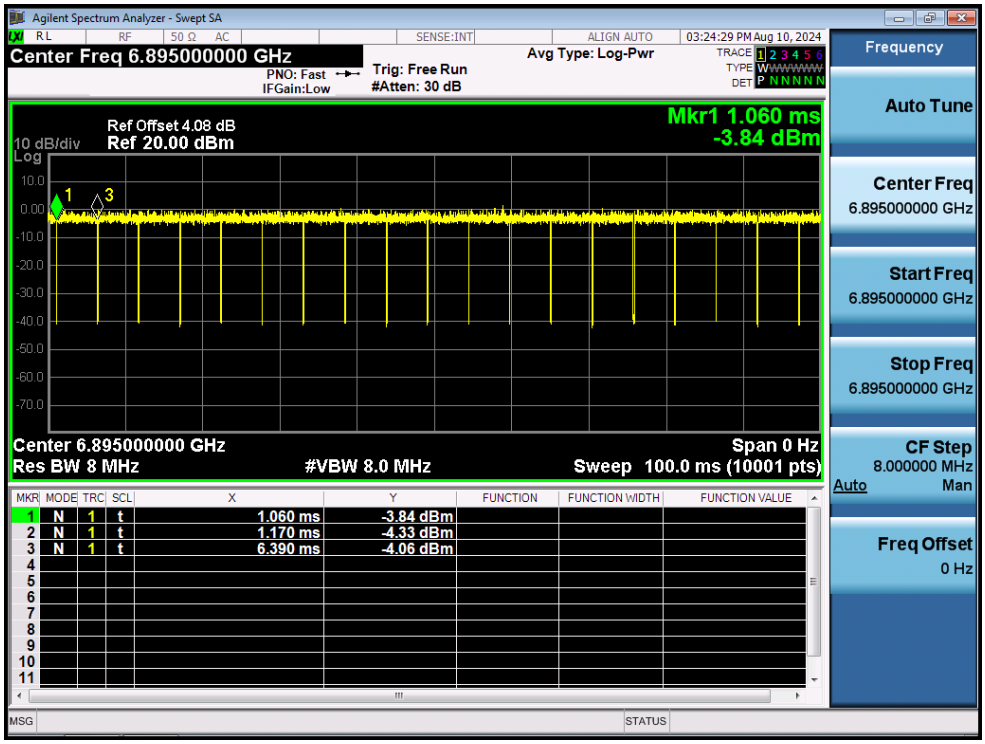
Duty Cycle NVNT ax20 6855MHz Sum



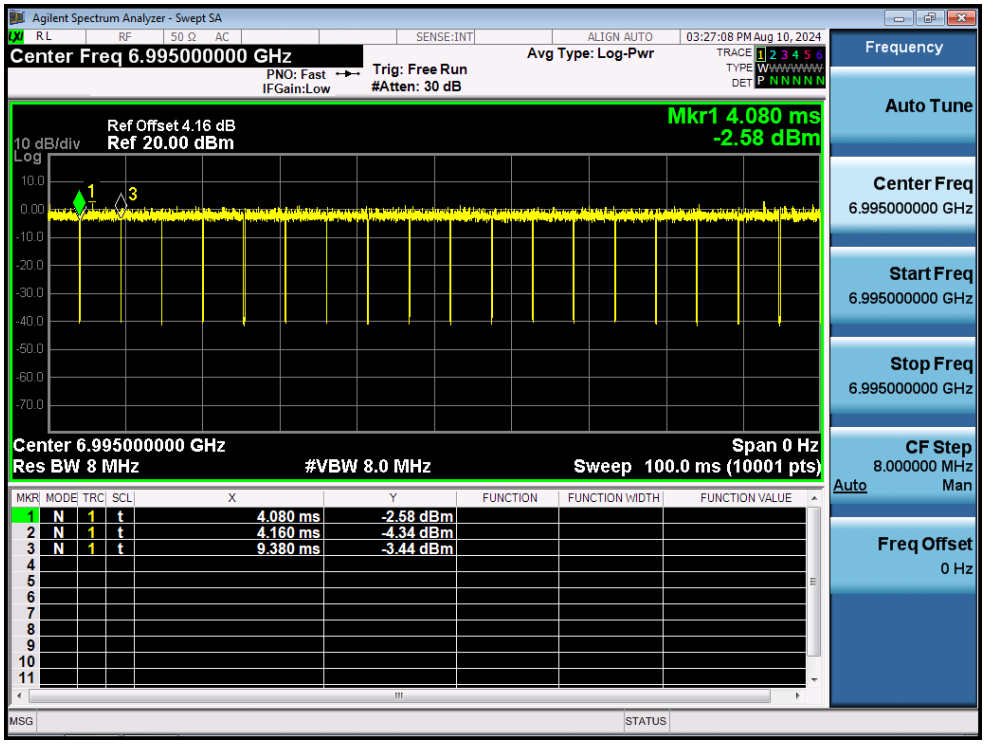
Duty Cycle NVNT ax20 6875MHz Sum



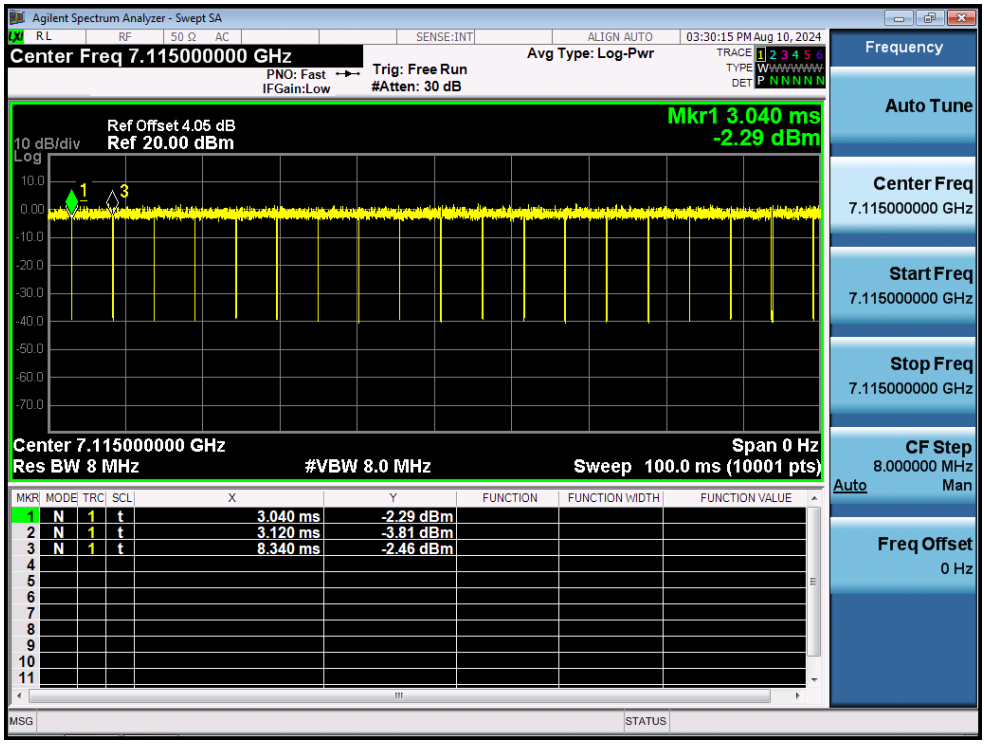
Duty Cycle NVNT ax20 6895MHz Sum



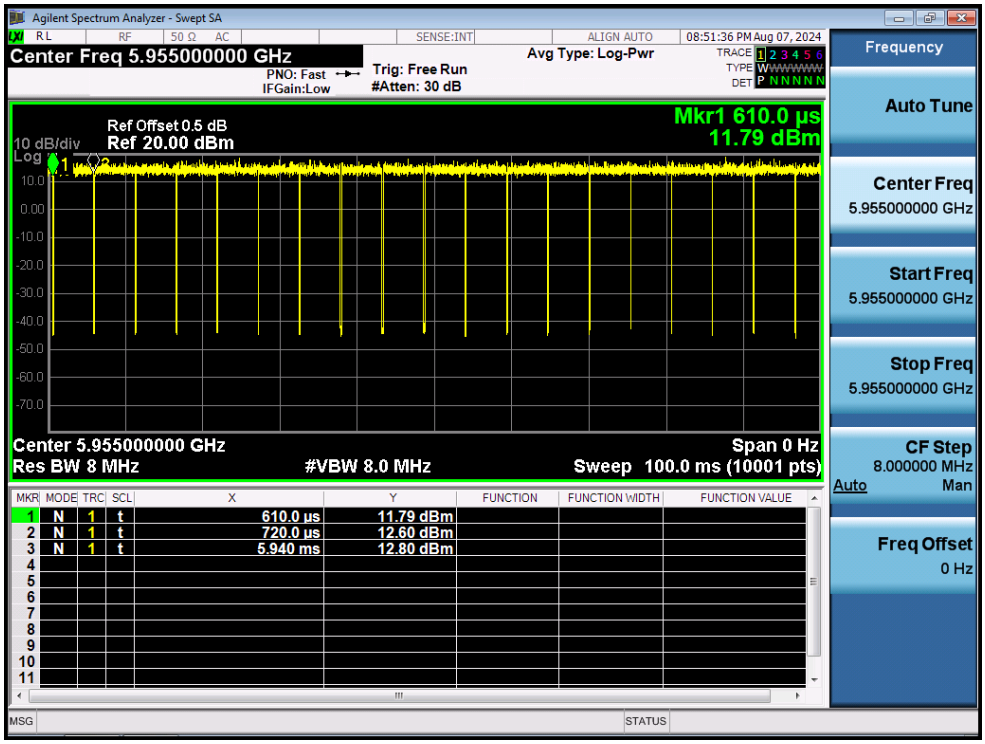
Duty Cycle NVNT ax20 6995MHz Sum



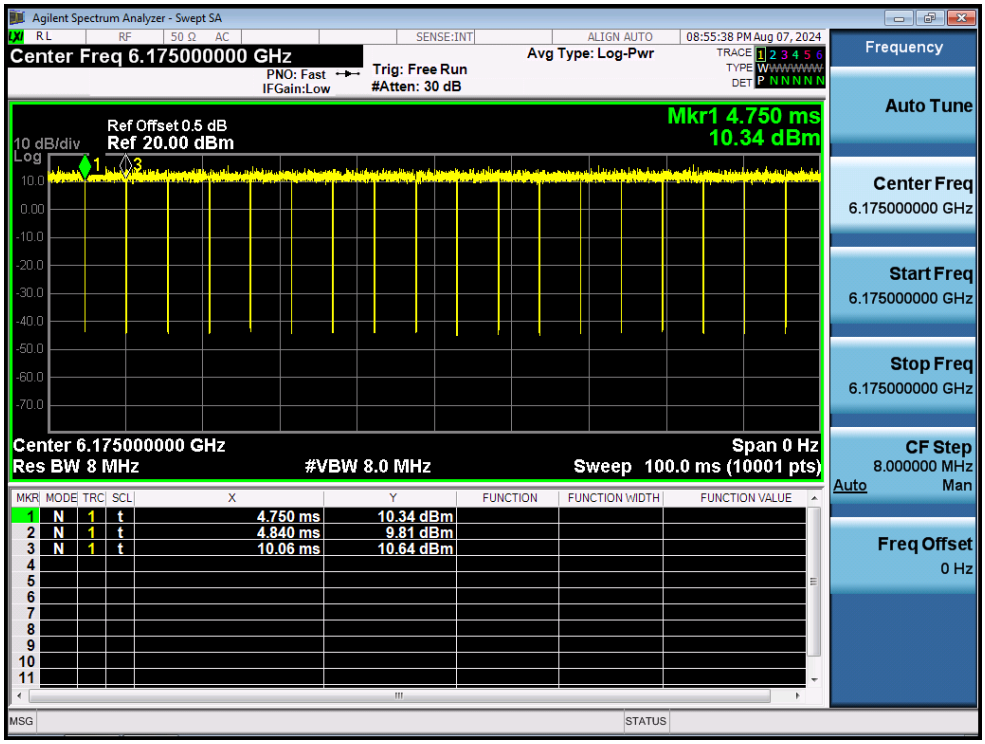
Duty Cycle NVNT ax20 7115MHz Sum



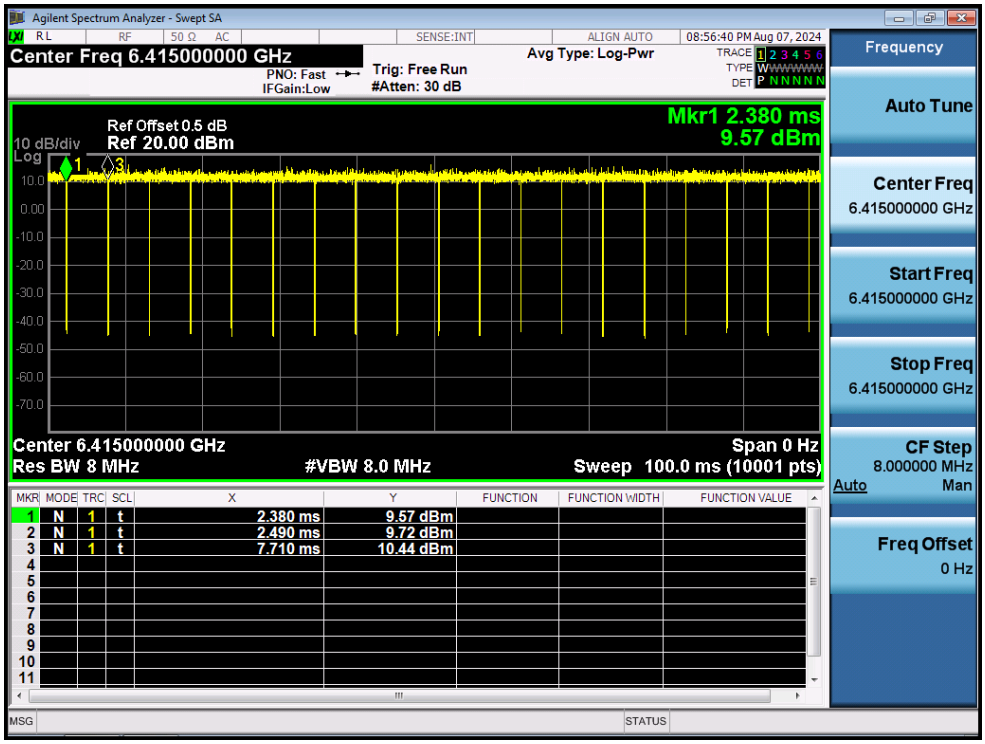
Duty Cycle NVNT ax20 5955MHz Ant1



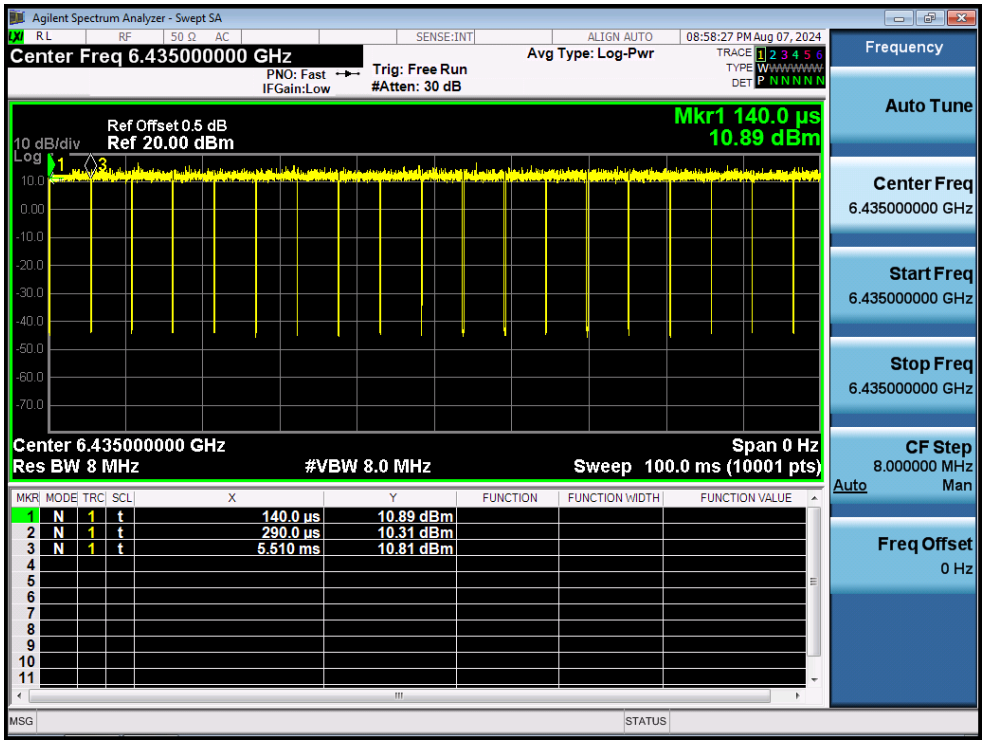
Duty Cycle NVNT ax20 6175MHz Ant1



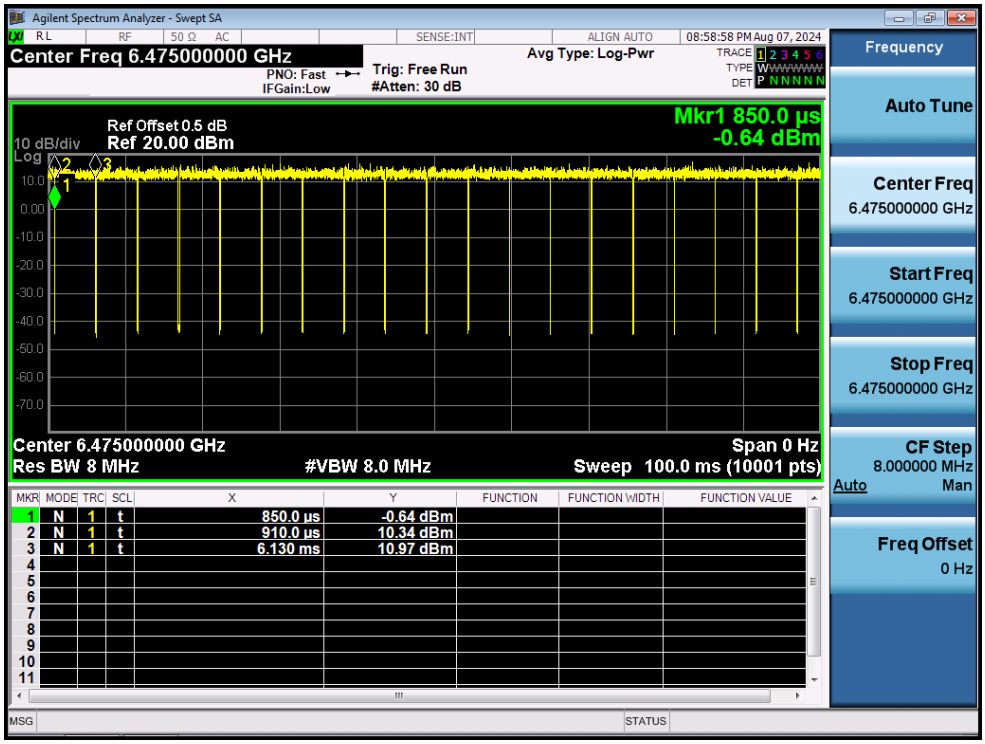
Duty Cycle NVNT ax20 6415MHz Ant1



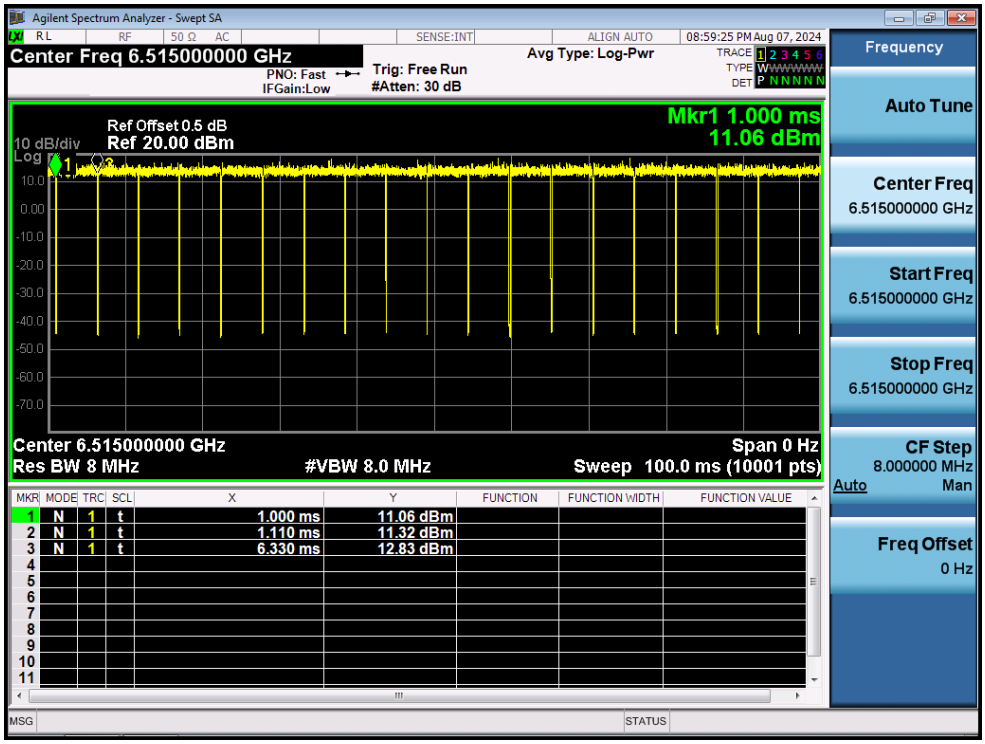
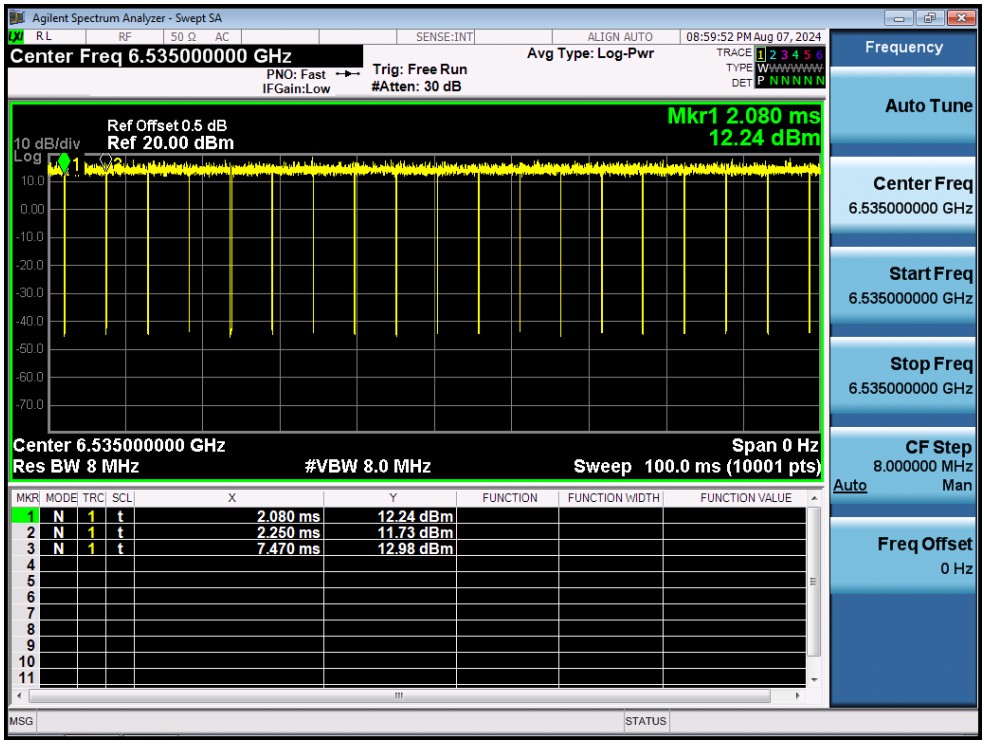
Duty Cycle NVNT ax20 6435MHz Ant1



Duty Cycle NVNT ax20 6475MHz Ant1



Duty Cycle NVNT ax20 6515MHz Ant1



Duty Cycle NVNT ax20 6535MHz Ant1