

RF Test Data for HaLow (Conducted Measurements)

General Description of EUT	
Product Name:	Wi-Fi HaLow Router
Test Model:	HT-H7608
Sample ID:	RW-C-202502-0171-2-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202502-0171-33 The report only show the worst case data.	

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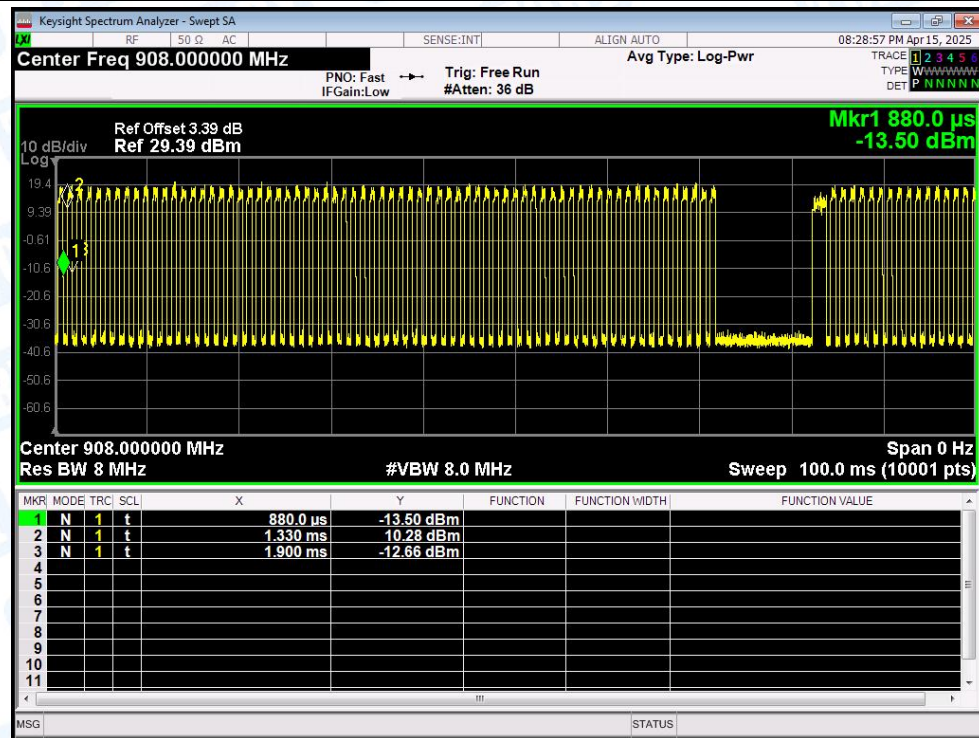
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1. Duty Cycle

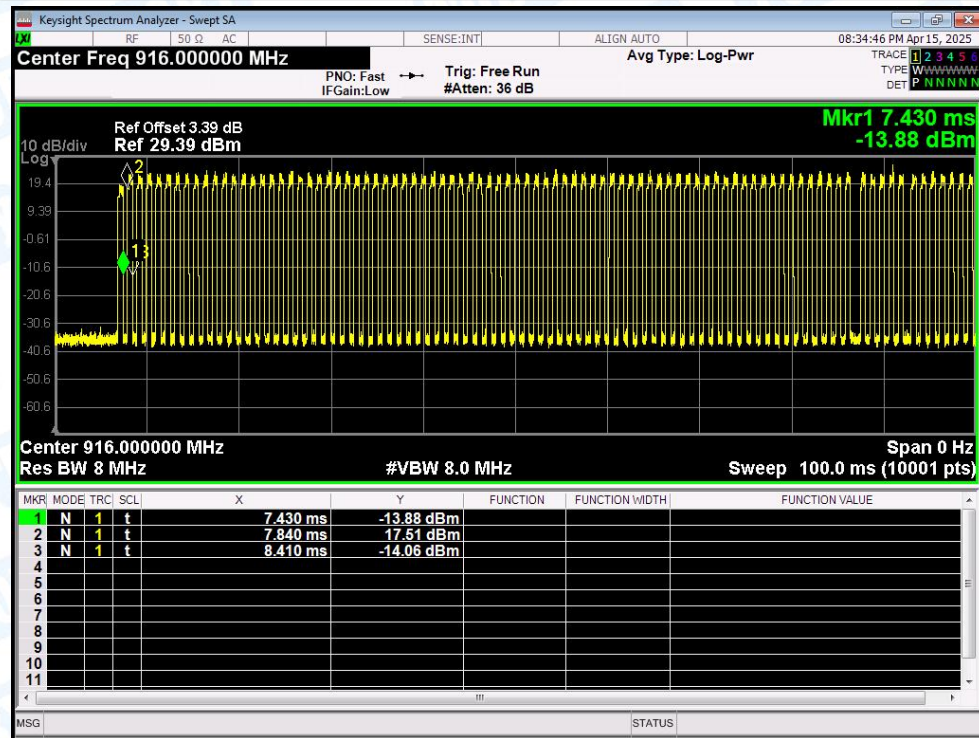
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	8M	908	Ant1	55.88	2.53	1.75
NVNT	8M	916	Ant1	58.16	2.35	1.75
NVNT	8M	924	Ant1	55.34	2.57	1.75
NVNT	1M	903.5	Ant1	89.38	0.49	0.29
NVNT	1M	915.5	Ant1	88.21	0.54	0.29
NVNT	1M	926.5	Ant1	88.21	0.54	0.29
NVNT	2M	905	Ant1	77.83	1.09	0.63
NVNT	2M	915	Ant1	77.83	1.09	0.63
NVNT	2M	925	Ant1	77.94	1.08	0.63
NVNT	4M	906	Ant1	66.67	1.76	1.11
NVNT	4M	914	Ant1	65.93	1.81	1.12
NVNT	4M	922	Ant1	68.18	1.66	1.11

Test Graphs

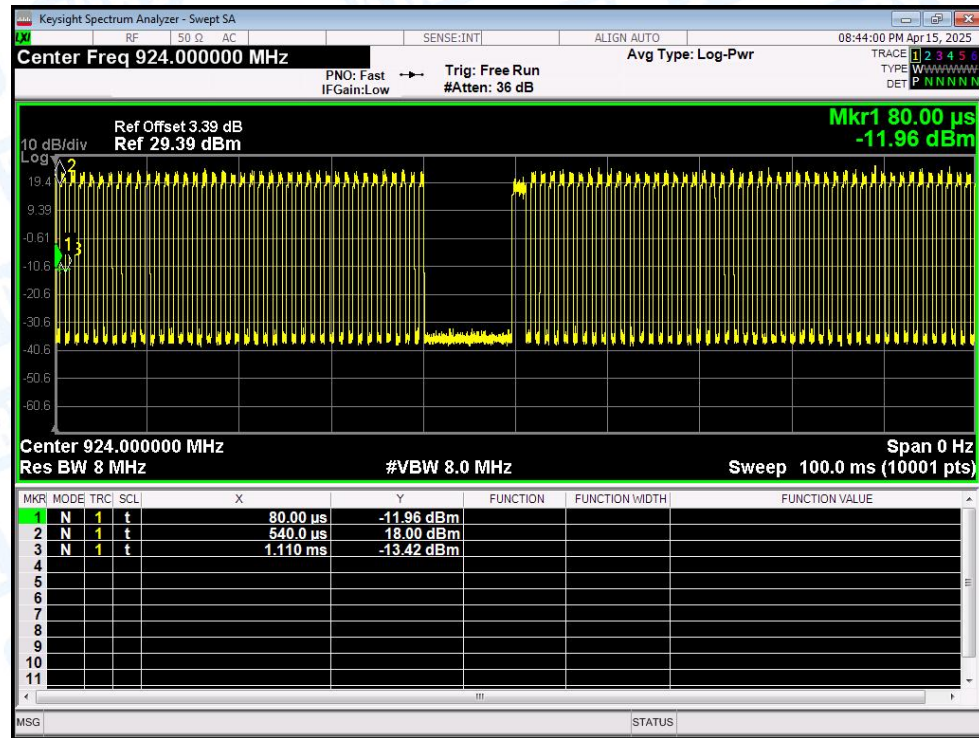
Duty Cycle NVNT 8M 908MHz Ant1



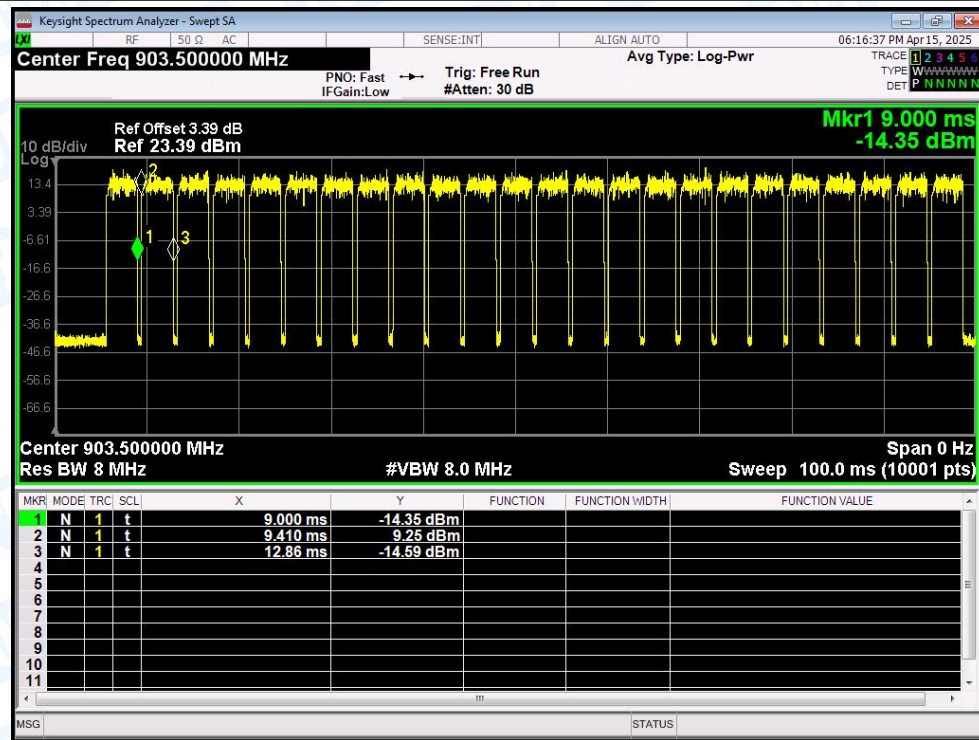
Duty Cycle NVNT 8M 916MHz Ant1



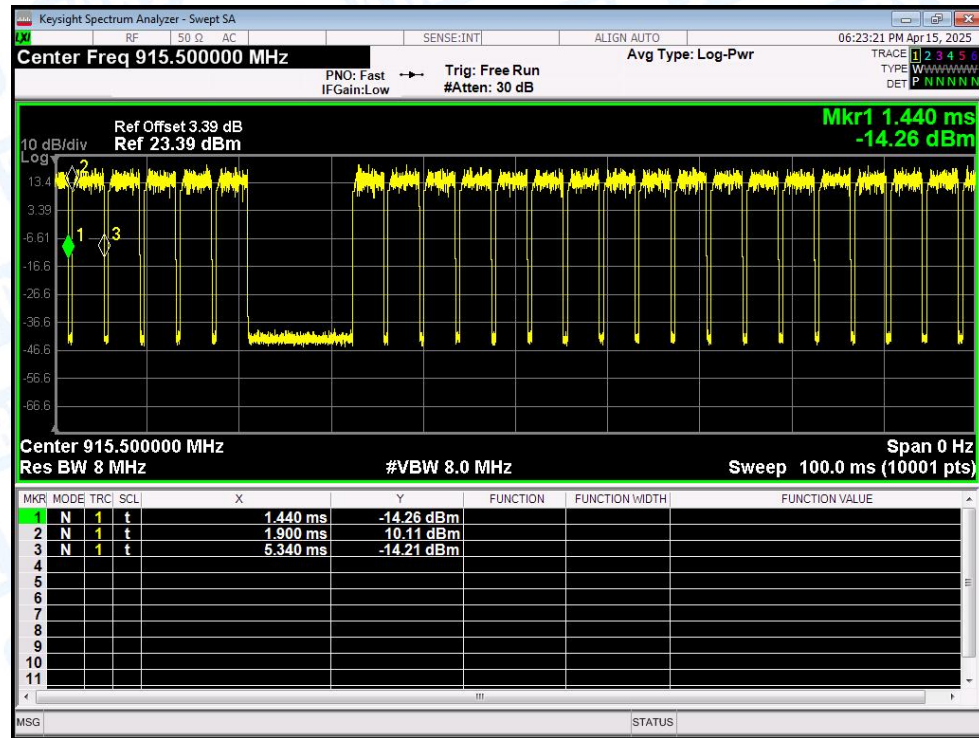
Duty Cycle NVNT 8M 924MHz Ant1



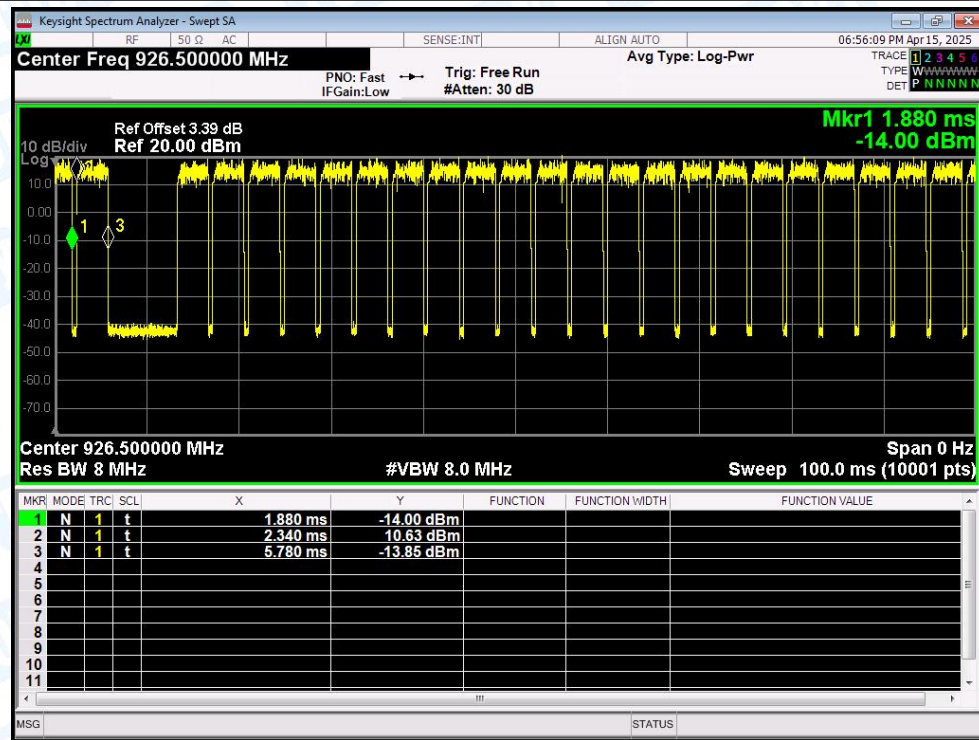
Duty Cycle NVNT 1M 903.5MHz Ant1



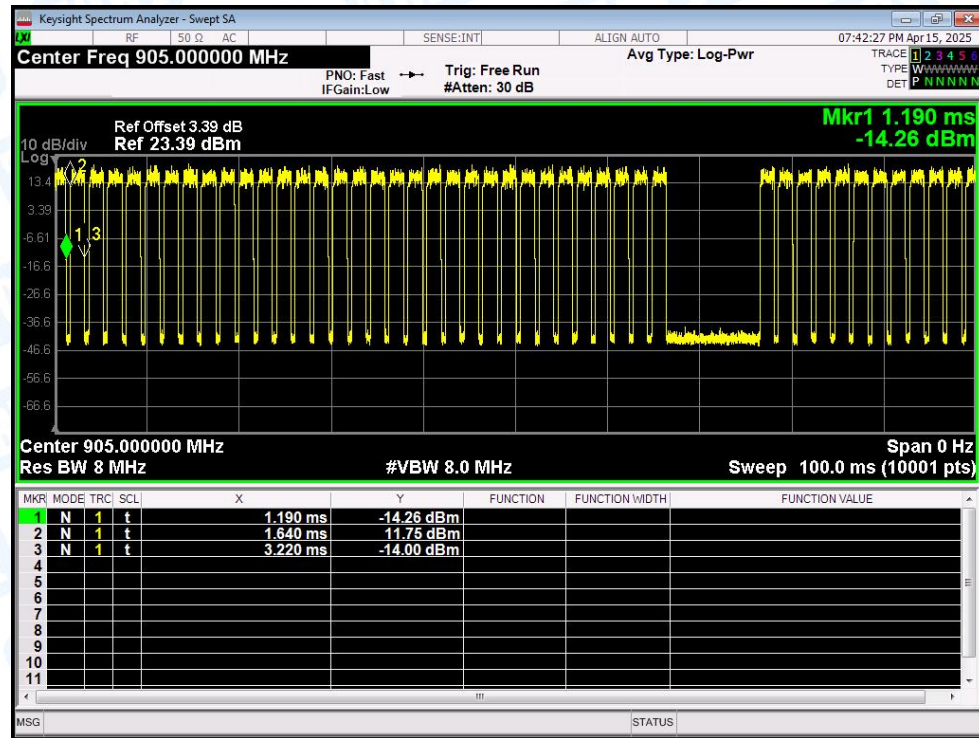
Duty Cycle NVNT 1M 915.5MHz Ant1



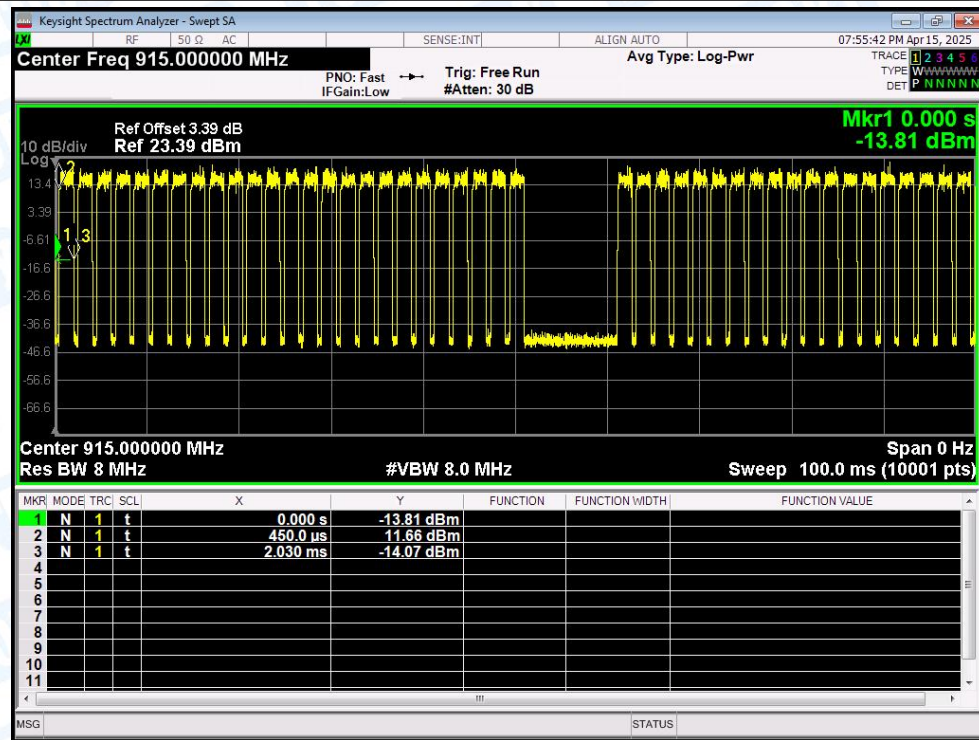
Duty Cycle NVNT 1M 926.5MHz Ant1



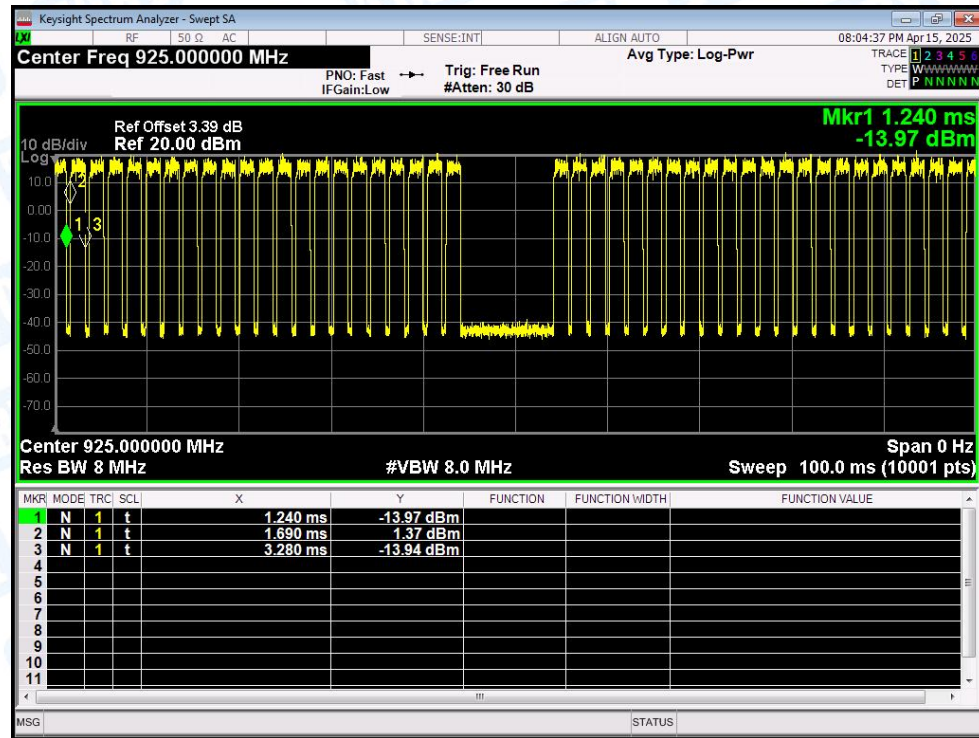
Duty Cycle NVNT 2M 905MHz Ant1



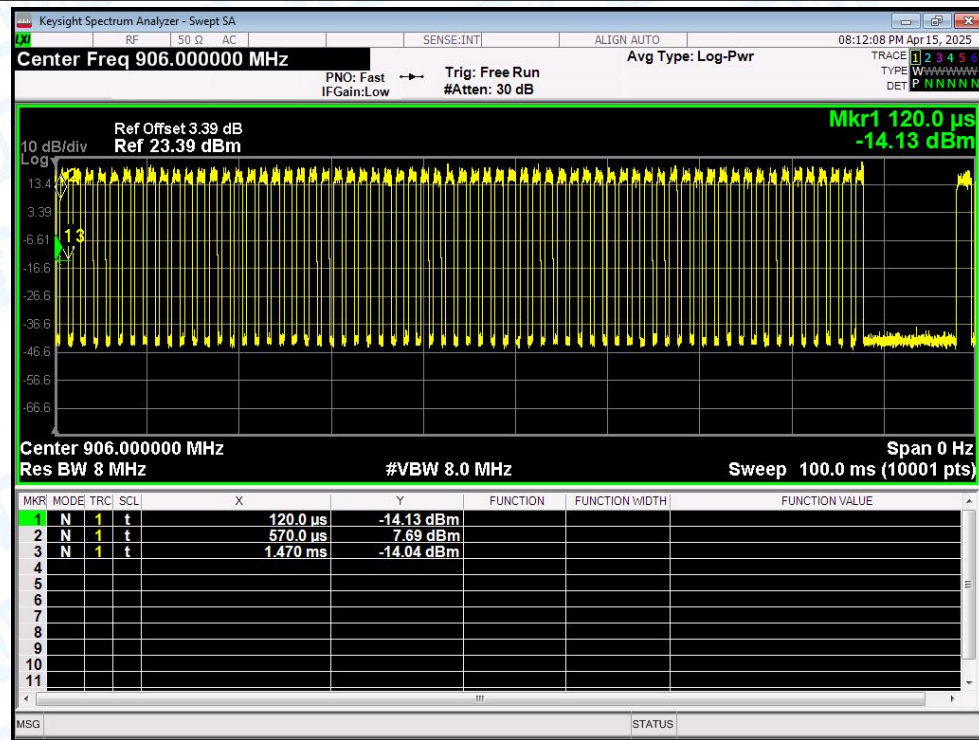
Duty Cycle NVNT 2M 915MHz Ant1



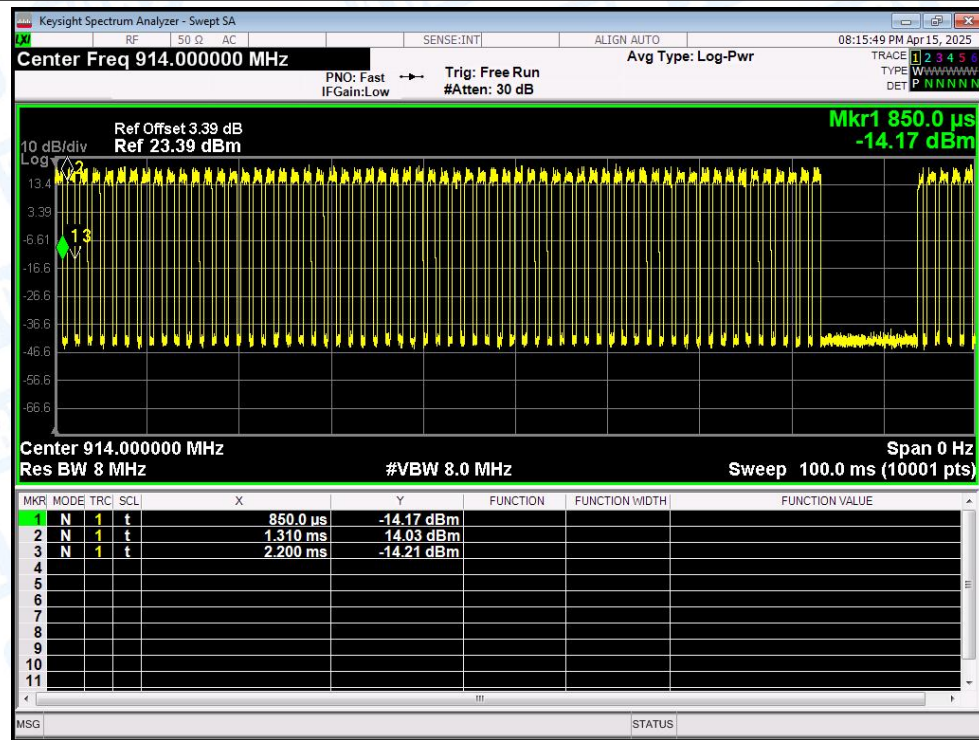
Duty Cycle NVNT 2M 925MHz Ant1



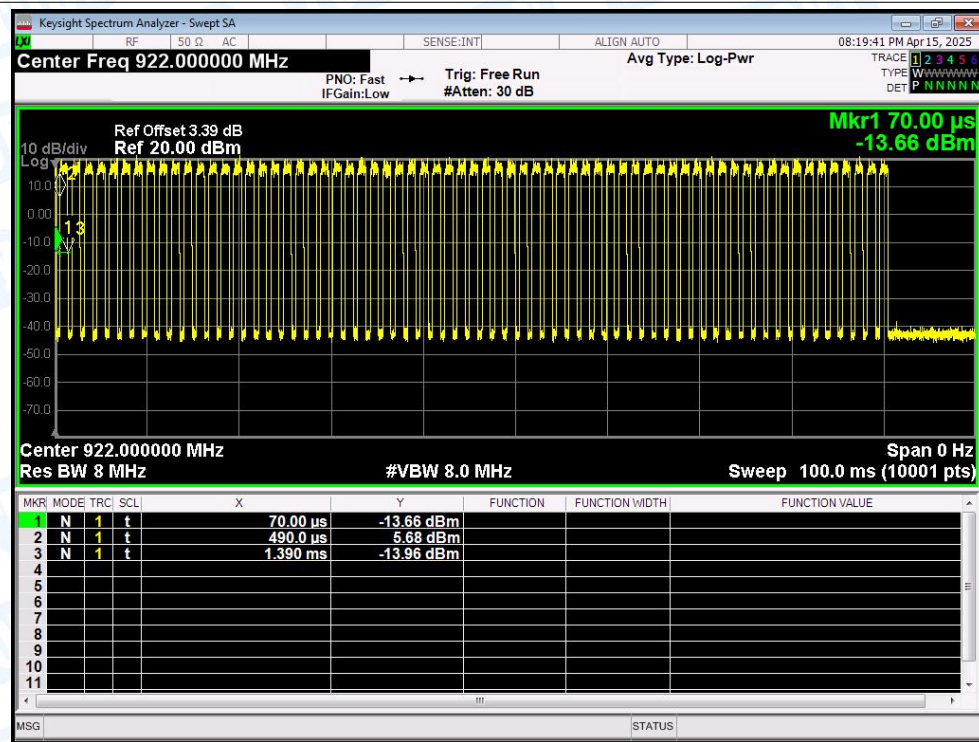
Duty Cycle NVNT 4M 906MHz Ant1



Duty Cycle NVNT 4M 914MHz Ant1



Duty Cycle NVNT 4M 922MHz Ant1

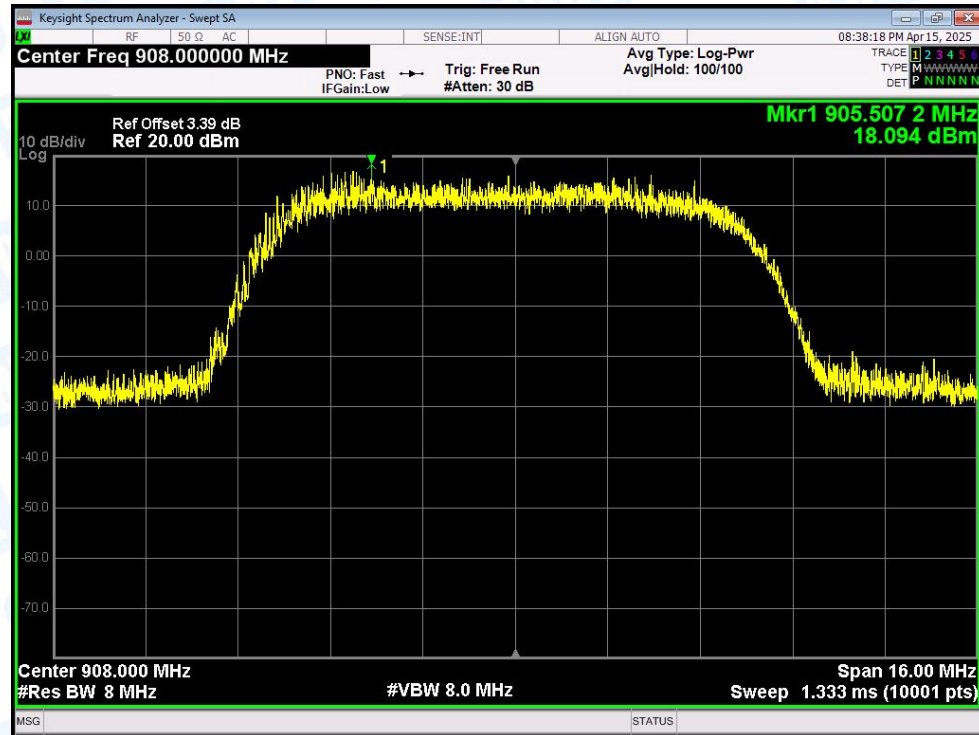


2. Maximum Conducted Peak Output Power

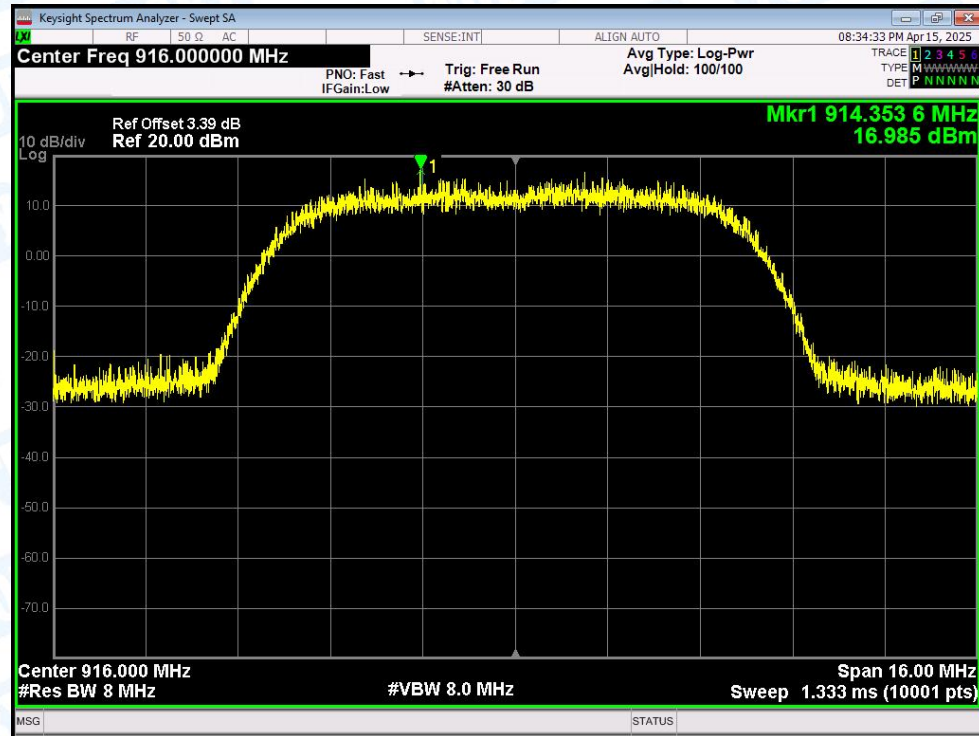
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	8M	908	Ant1	18.094	30	Pass
NVNT	8M	916	Ant1	16.985	30	Pass
NVNT	8M	924	Ant1	17.786	30	Pass
NVNT	1M	903.5	Ant1	18.431	30	Pass
NVNT	1M	915.5	Ant1	19.227	30	Pass
NVNT	1M	926.5	Ant1	19.121	30	Pass
NVNT	2M	905	Ant1	17.059	30	Pass
NVNT	2M	915	Ant1	17.796	30	Pass
NVNT	2M	925	Ant1	17.385	30	Pass
NVNT	4M	906	Ant1	15.018	30	Pass
NVNT	4M	914	Ant1	16.024	30	Pass
NVNT	4M	922	Ant1	16.119	30	Pass

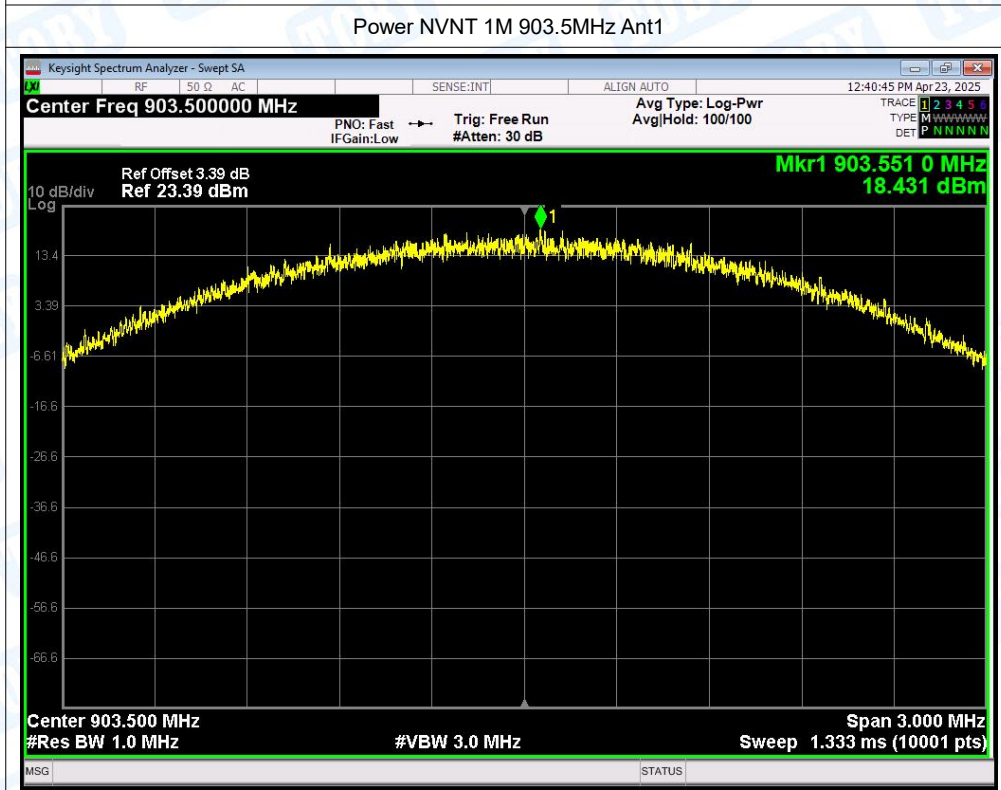
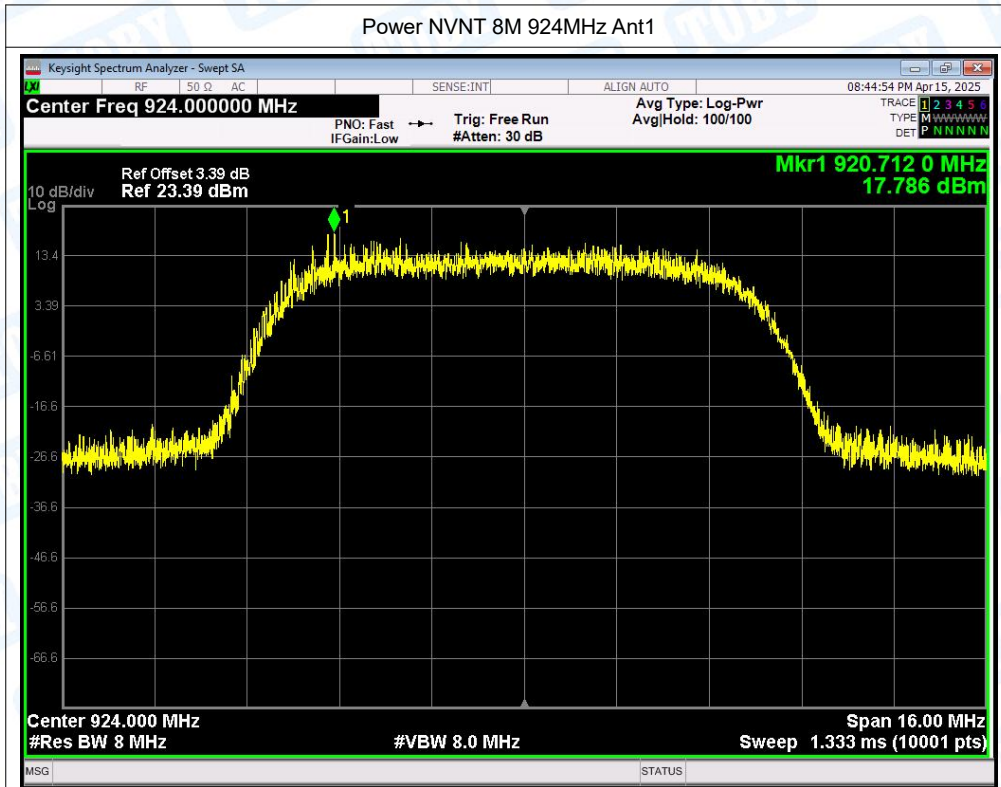
Test Graphs

Power NVNT 8M 908MHz Ant1

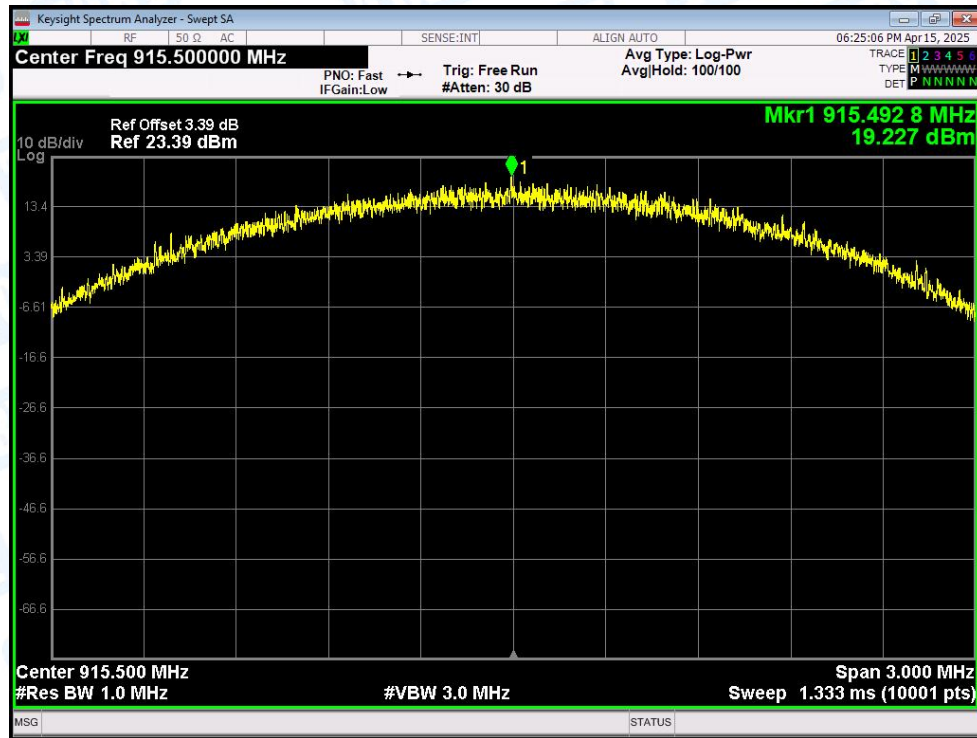


Power NVNT 8M 916MHz Ant1

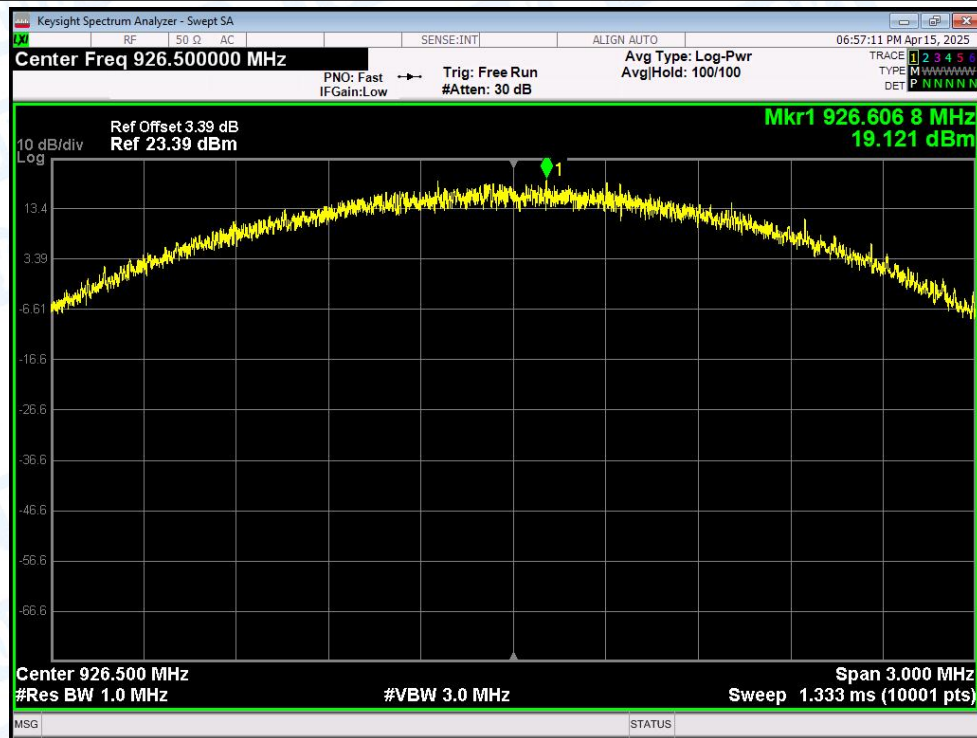


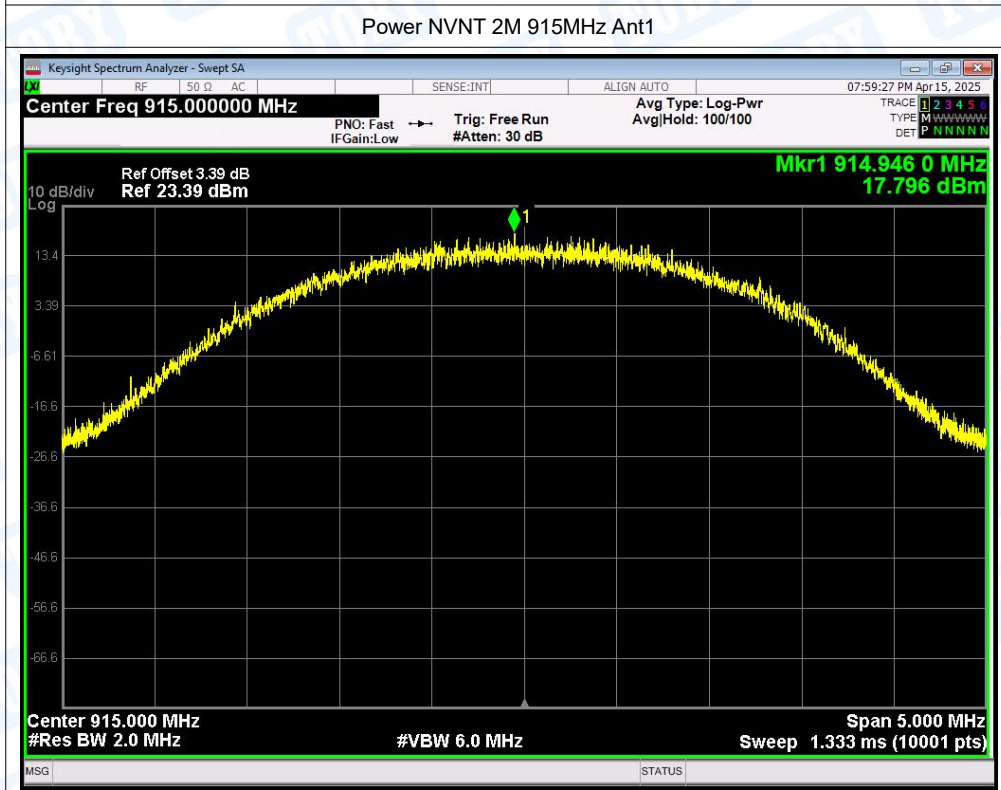
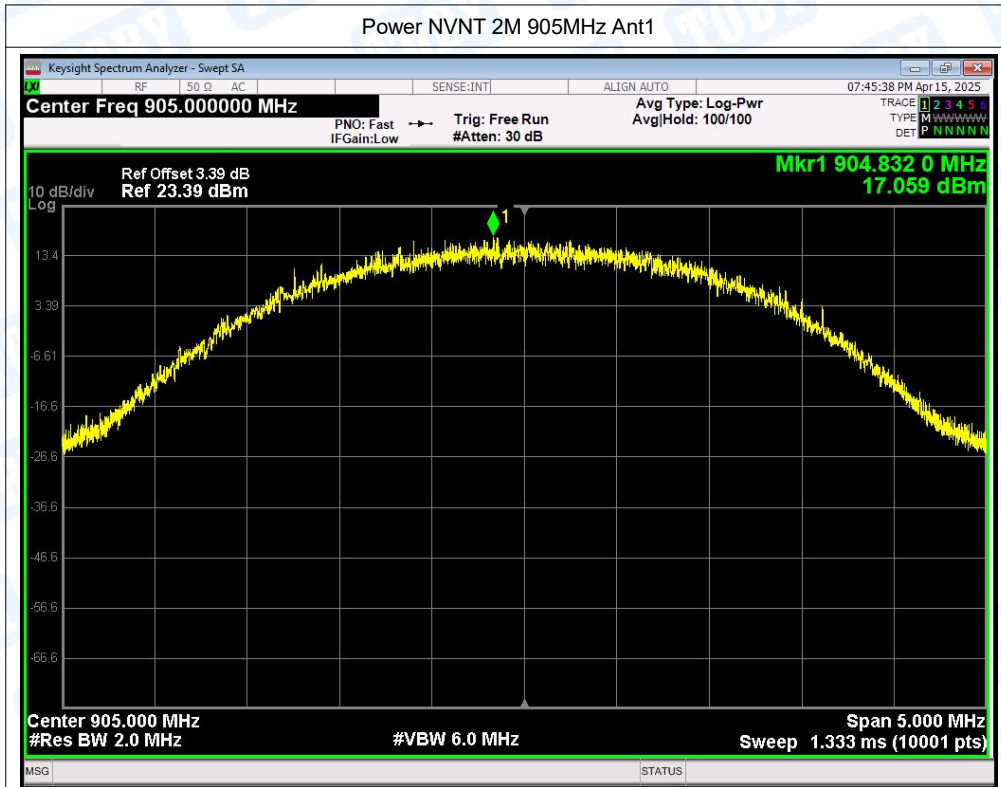


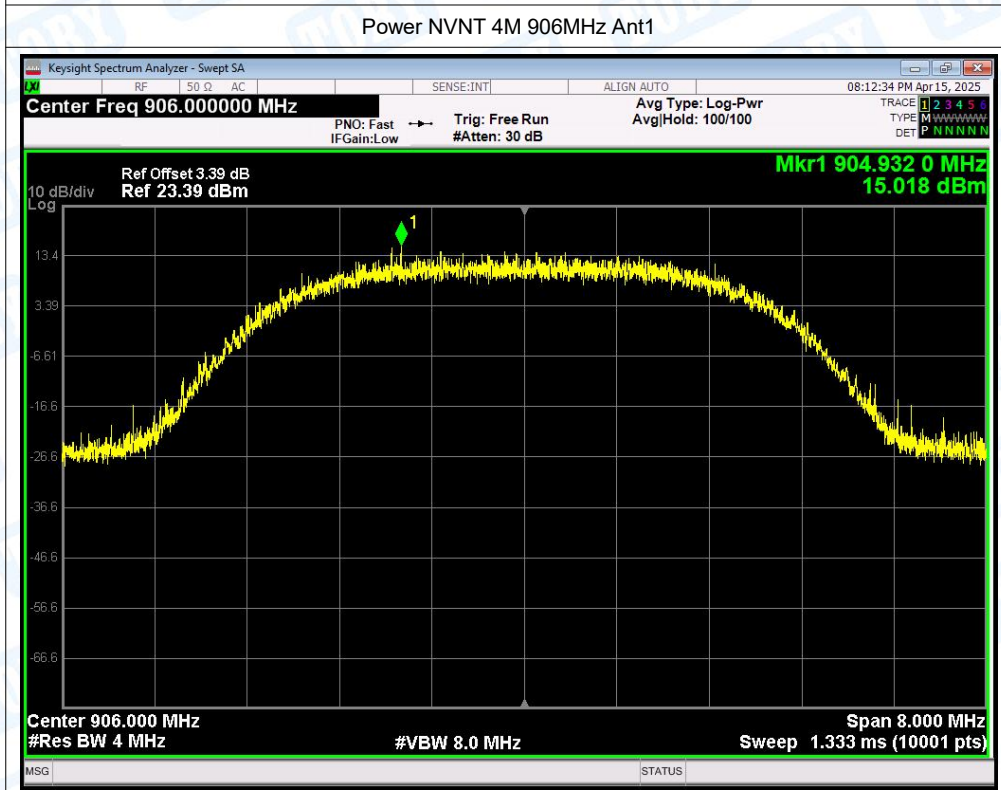
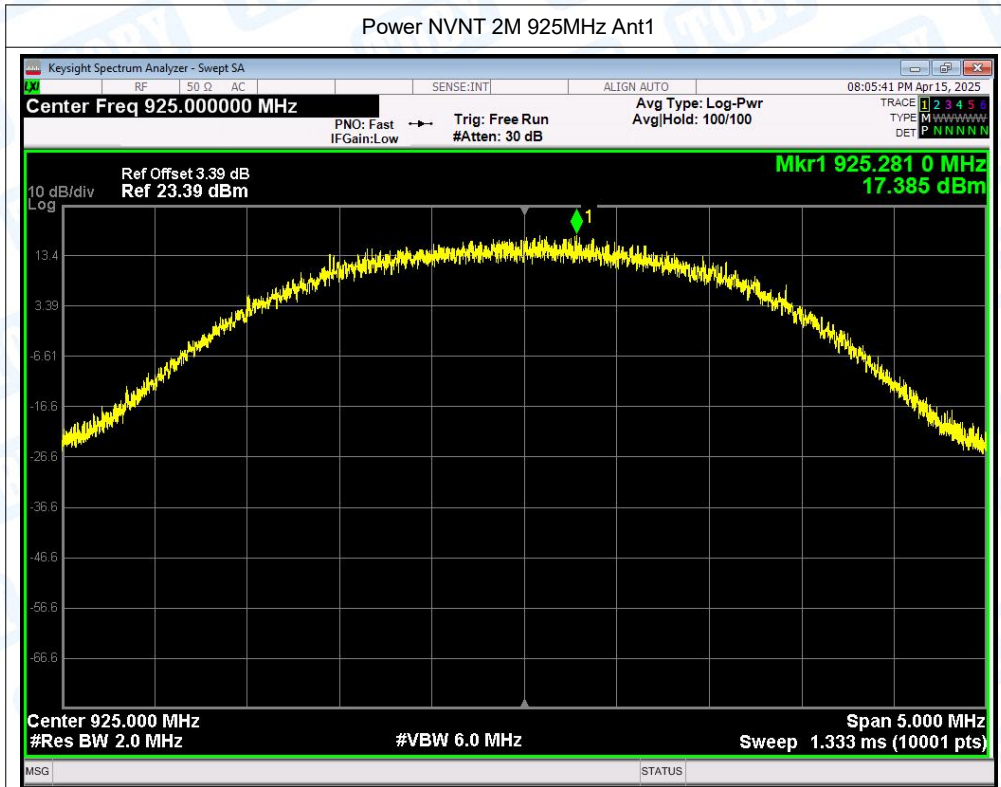
Power NVNT 1M 915.5MHz Ant1

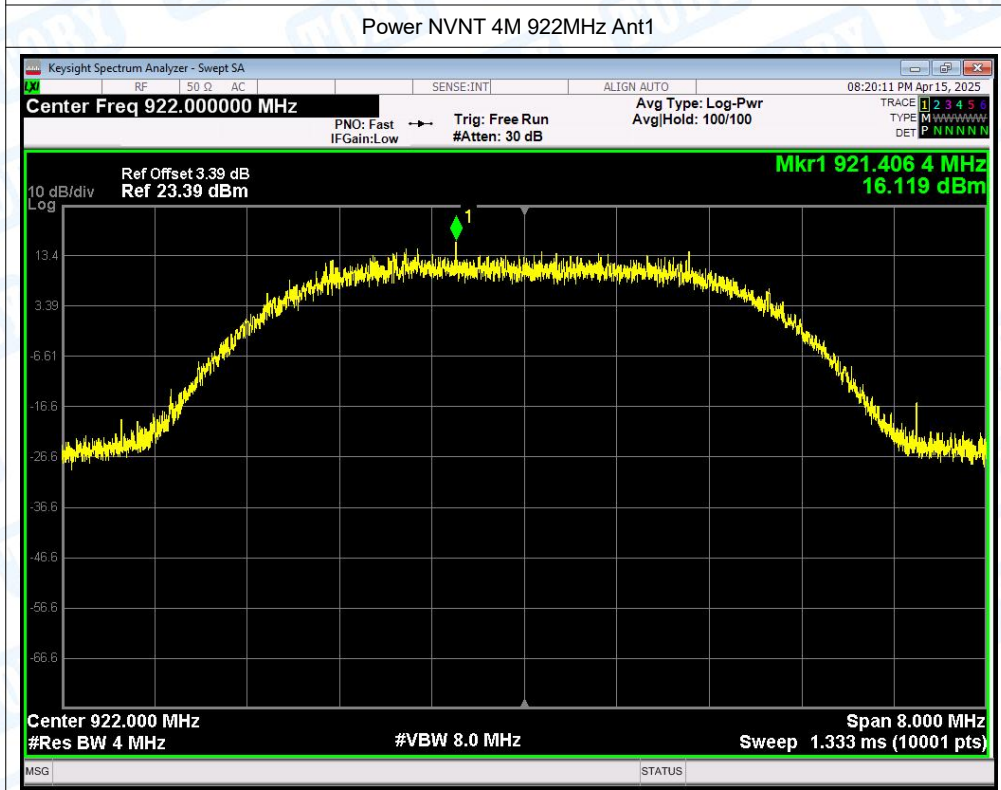
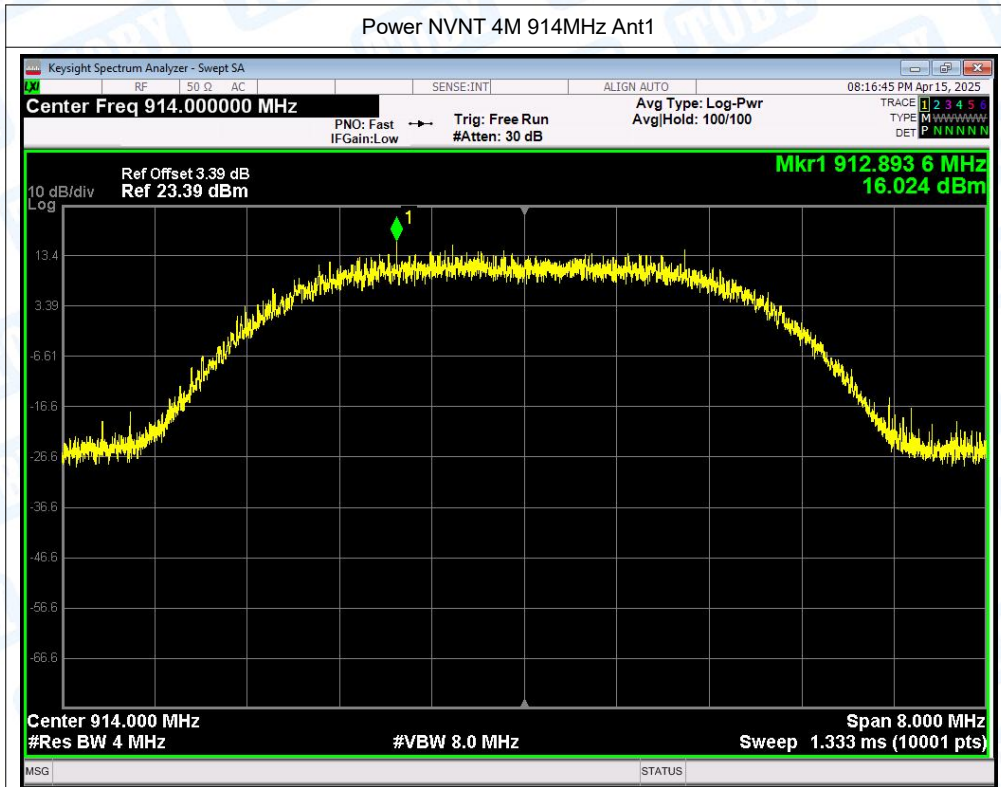


Power NVNT 1M 926.5MHz Ant1







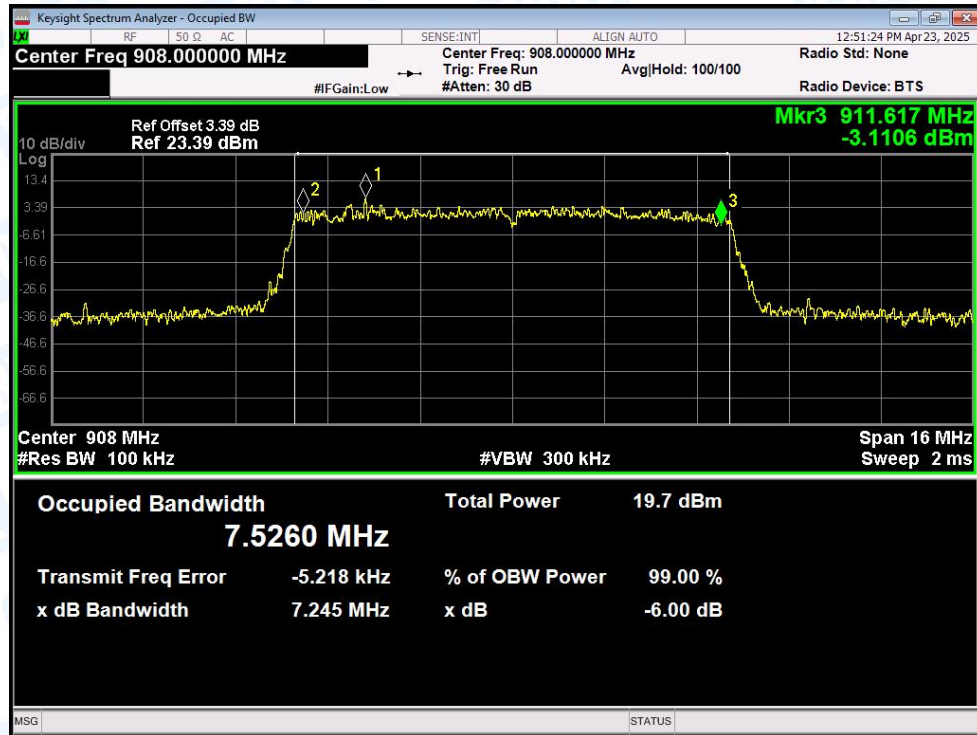


3. -6dB Bandwidth

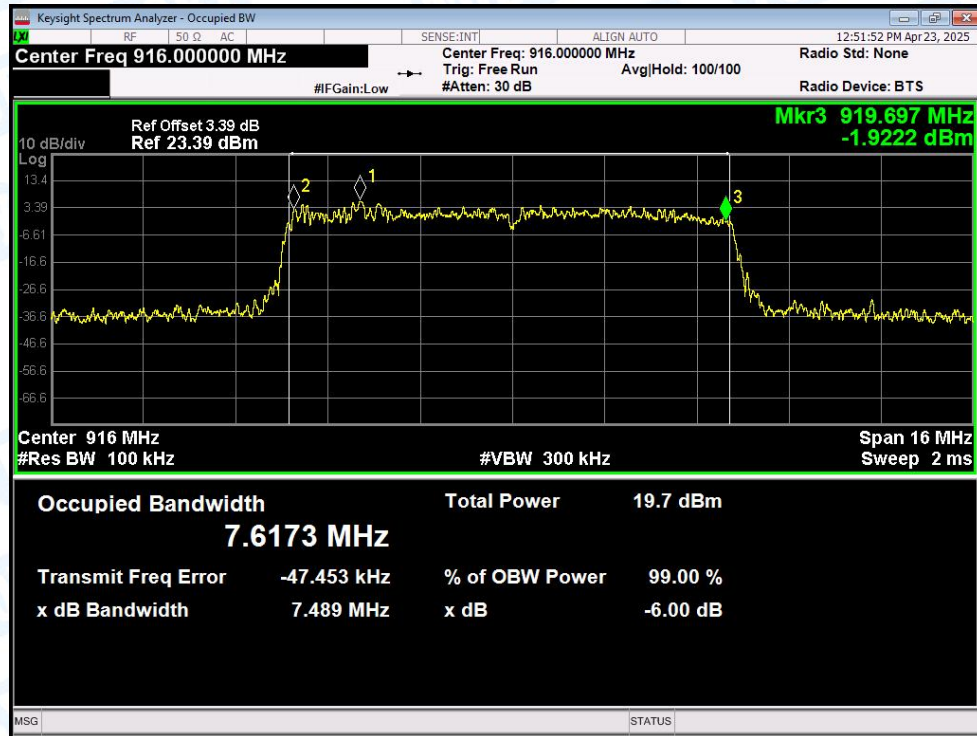
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	8M	908	Ant1	7.24	0.5	Pass
NVNT	8M	916	Ant1	7.49	0.5	Pass
NVNT	8M	924	Ant1	7.57	0.5	Pass
NVNT	1M	903.5	Ant1	0.81	0.5	Pass
NVNT	1M	915.5	Ant1	0.81	0.5	Pass
NVNT	1M	926.5	Ant1	0.79	0.5	Pass
NVNT	2M	905	Ant1	1.67	0.5	Pass
NVNT	2M	915	Ant1	1.73	0.5	Pass
NVNT	2M	925	Ant1	1.74	0.5	Pass
NVNT	4M	906	Ant1	3.58	0.5	Pass
NVNT	4M	914	Ant1	3.58	0.5	Pass
NVNT	4M	922	Ant1	3.48	0.5	Pass

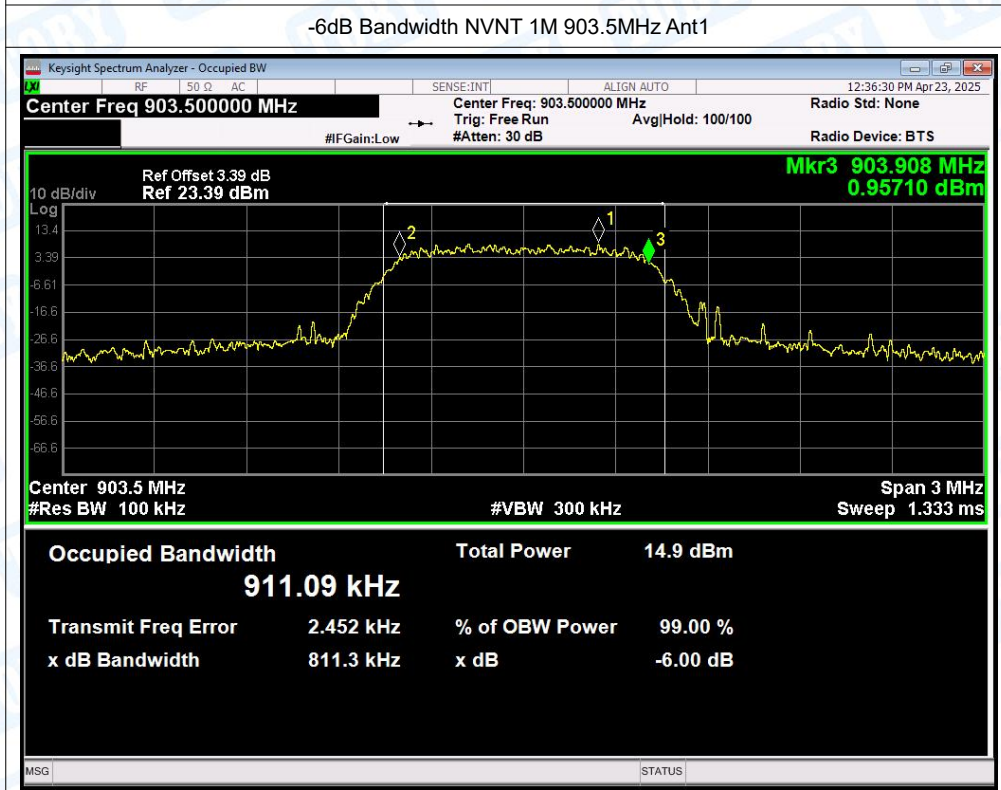
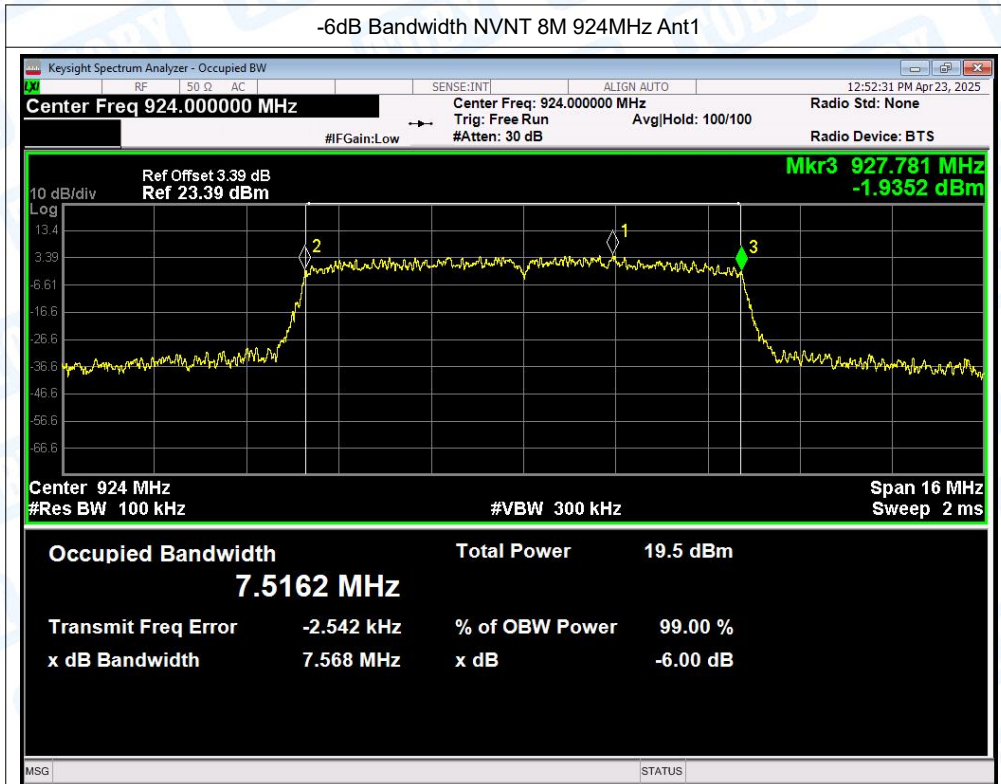
Test Graphs

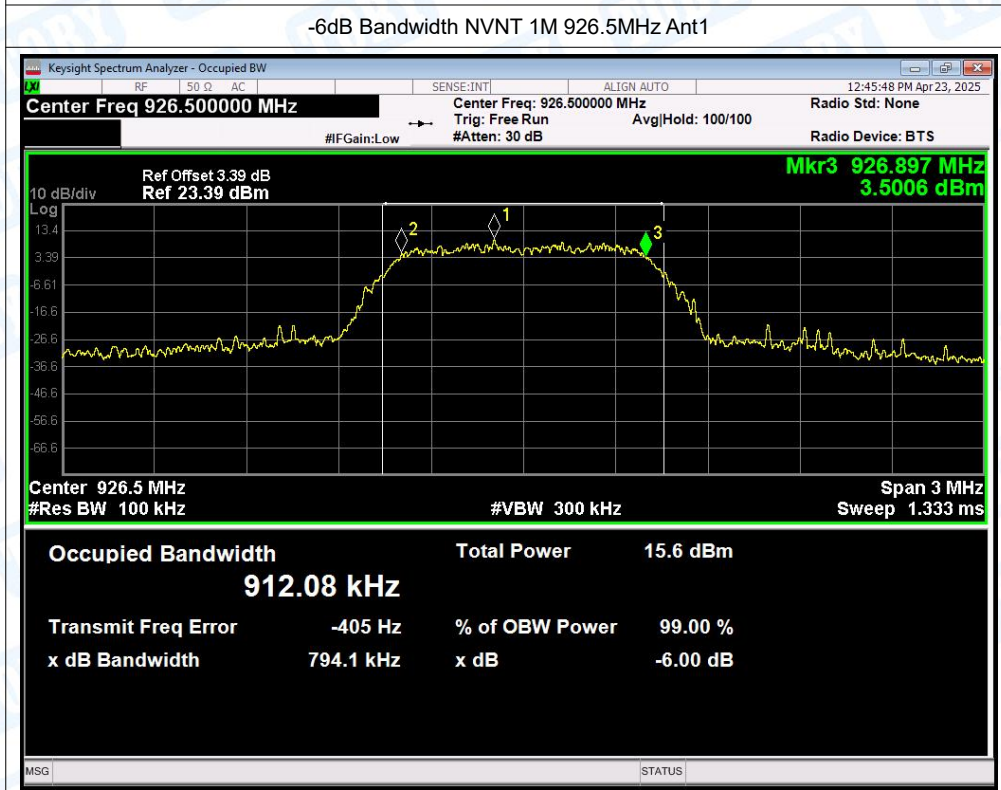
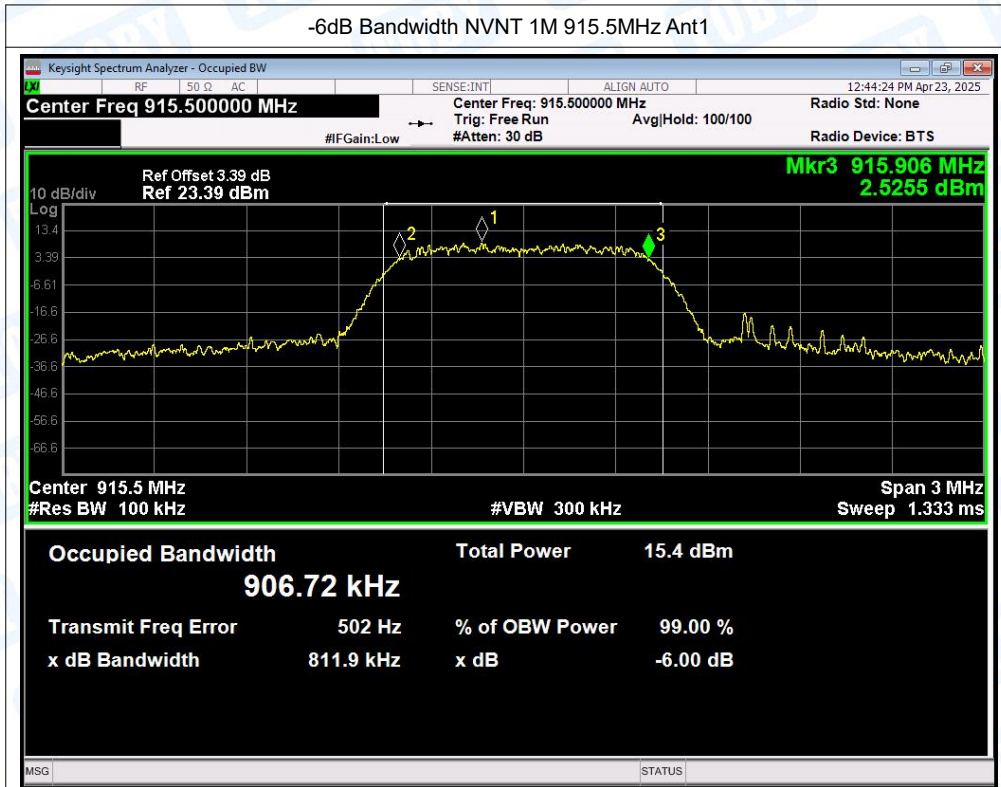
-6dB Bandwidth NVNT 8M 908MHz Ant1

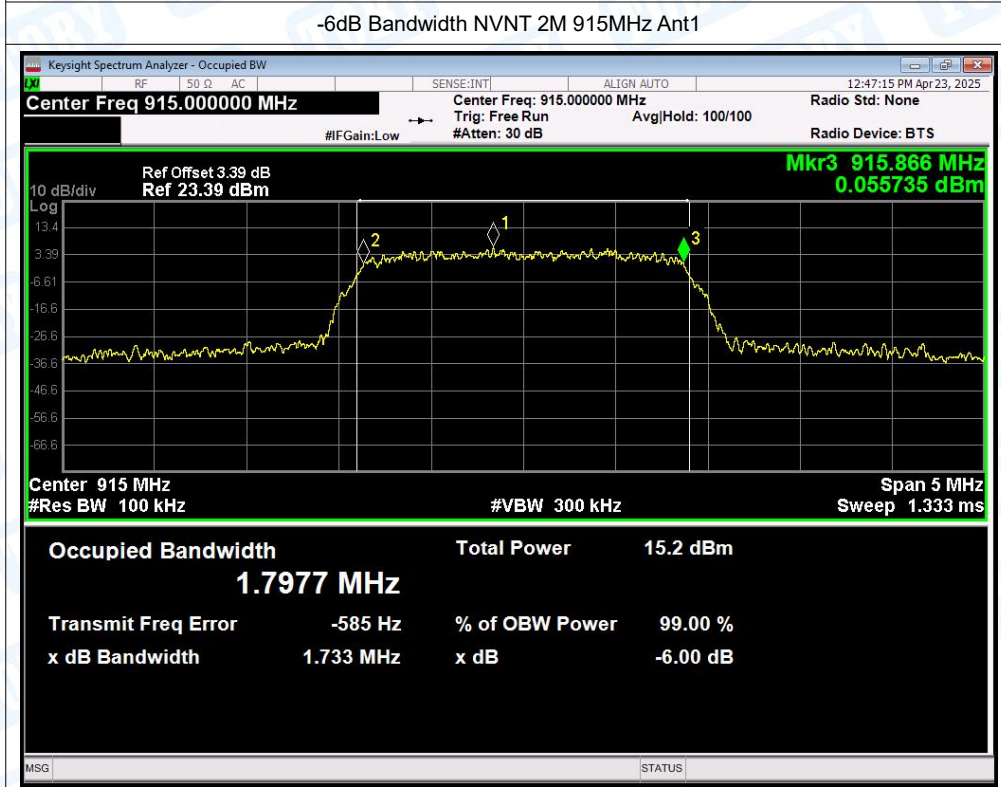
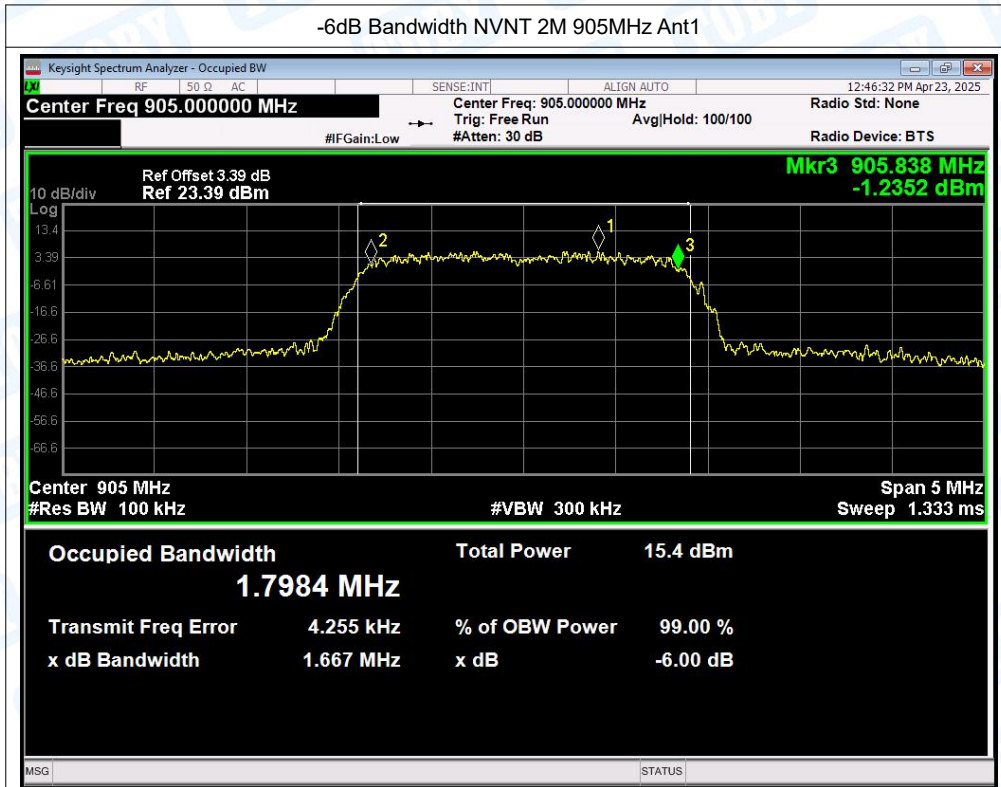


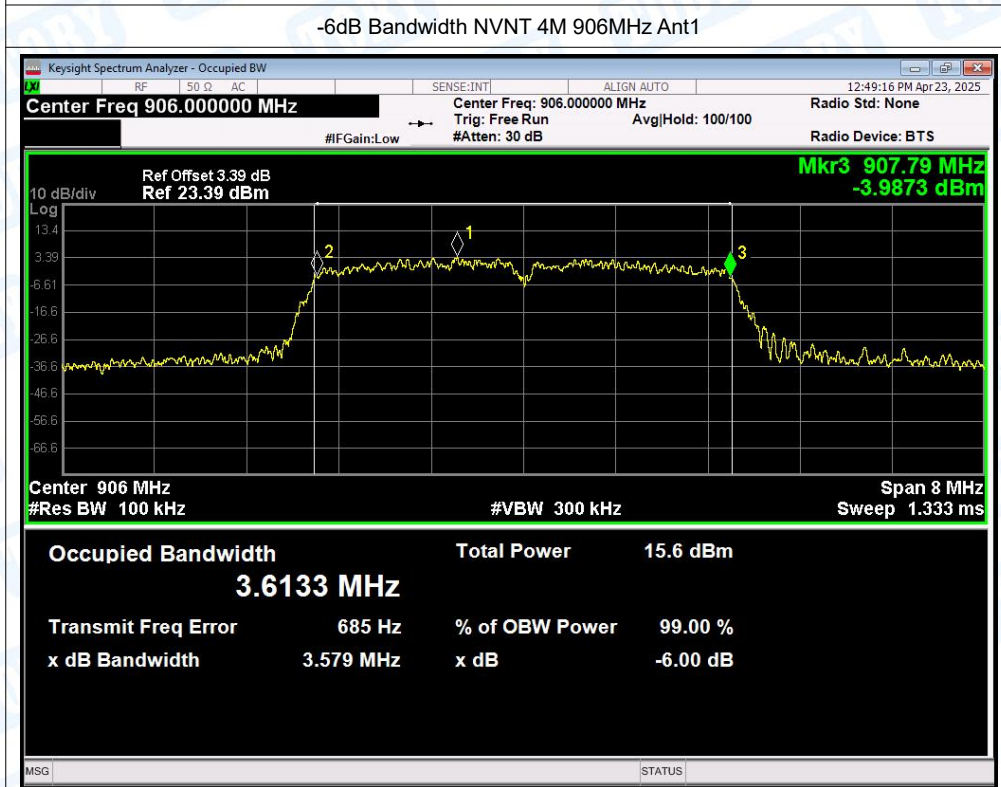
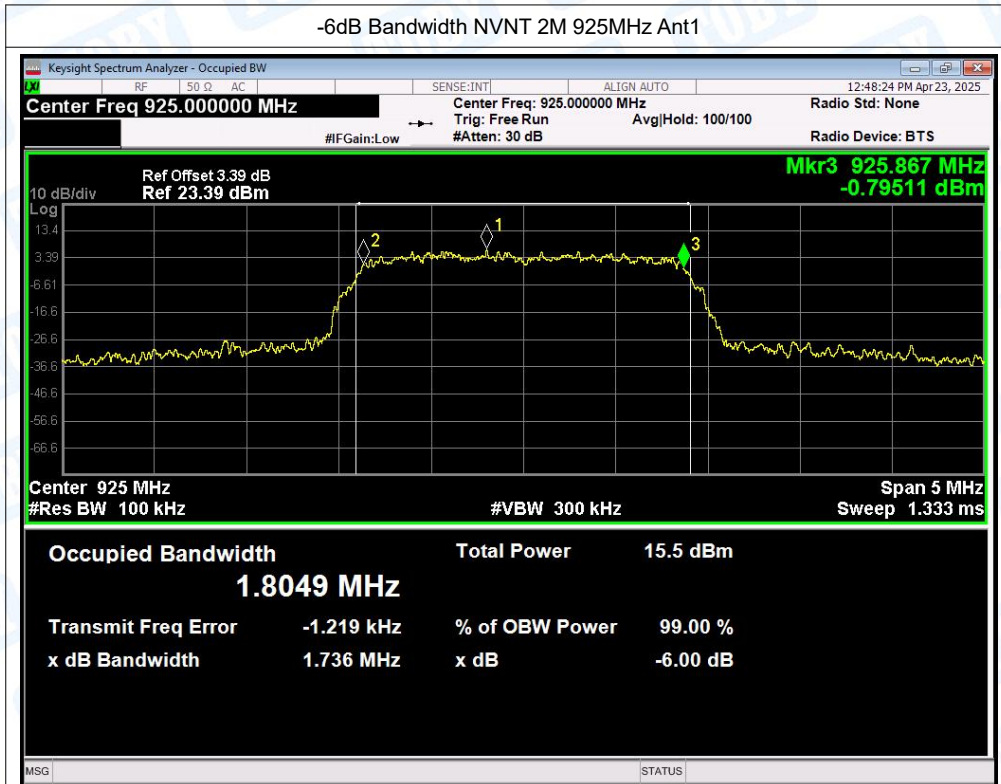
-6dB Bandwidth NVNT 8M 916MHz Ant1

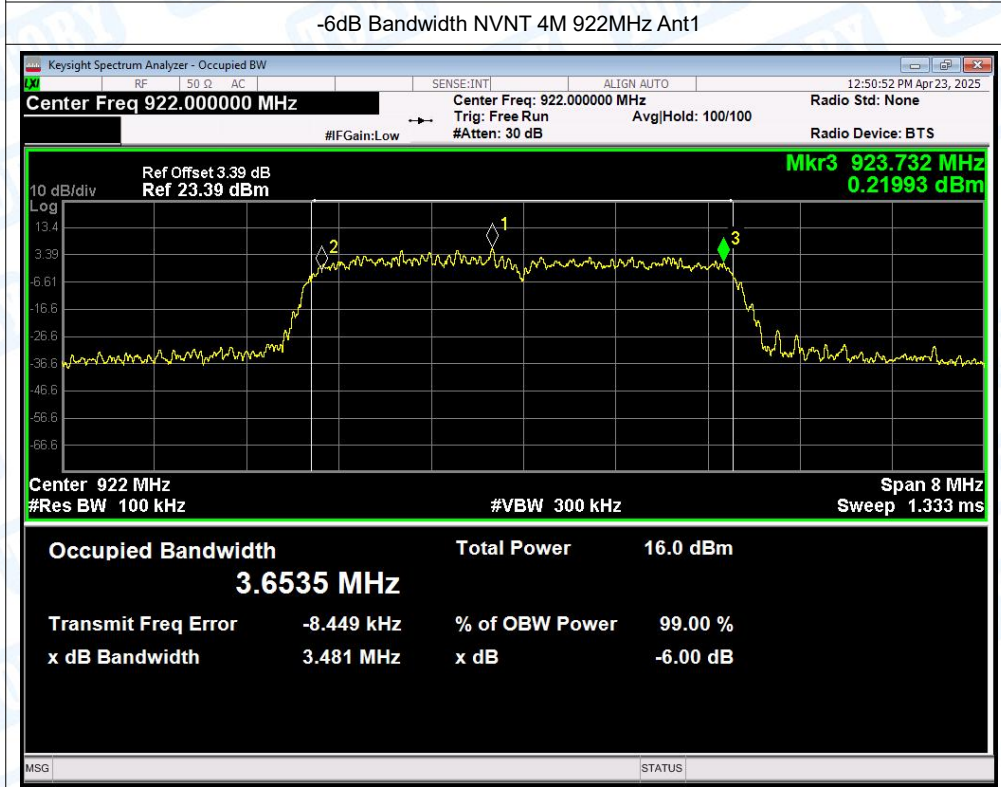
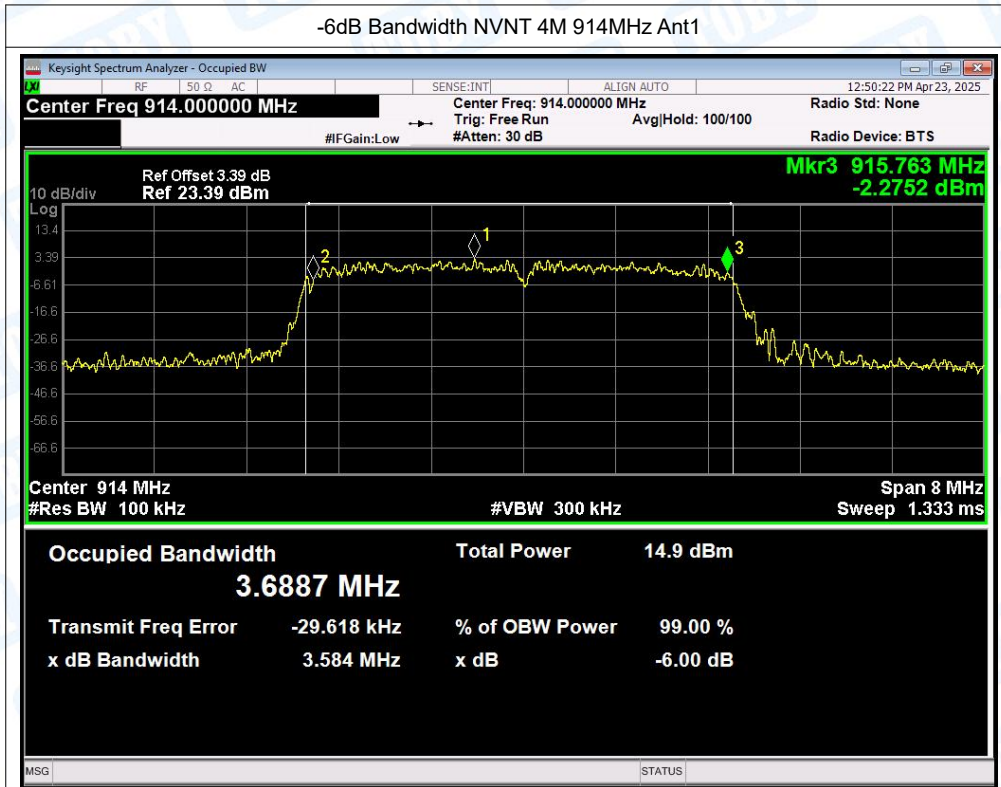










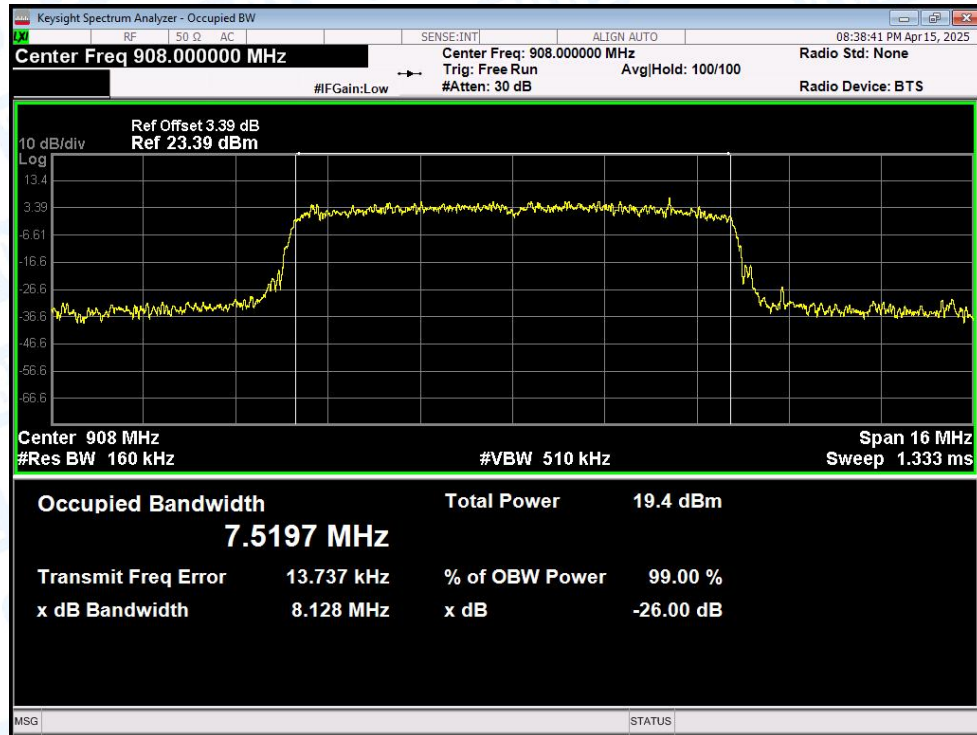


4. Occupied Channel Bandwidth

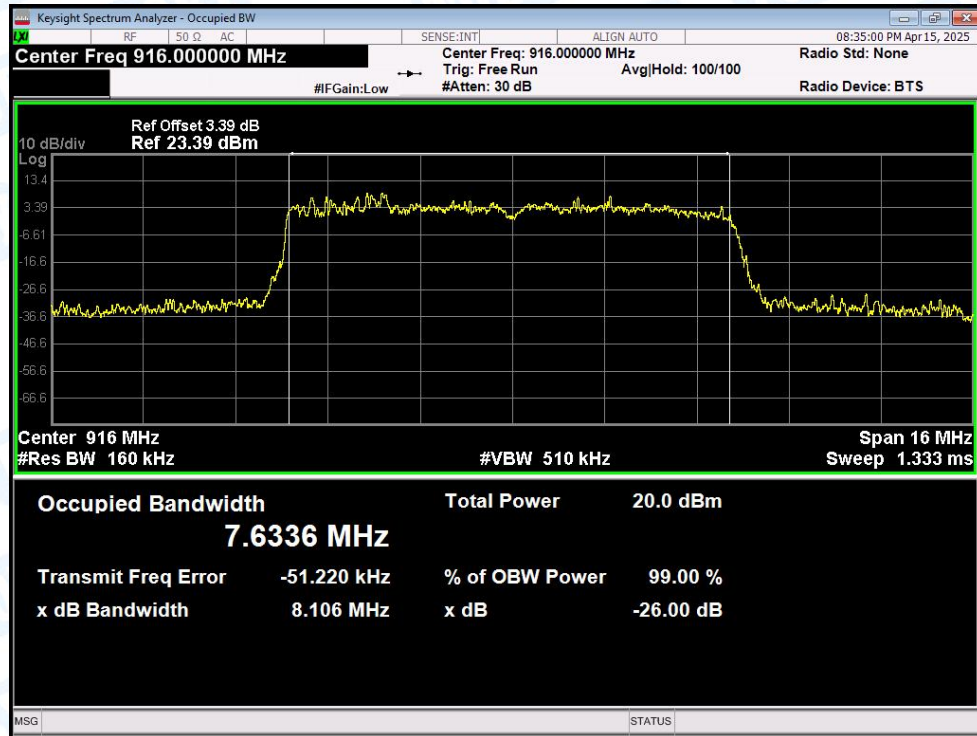
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	8M	908	Ant1	7.520
NVNT	8M	916	Ant1	7.634
NVNT	8M	924	Ant1	7.499
NVNT	1M	903.5	Ant1	0.848
NVNT	1M	915.5	Ant1	0.860
NVNT	1M	926.5	Ant1	0.858
NVNT	2M	905	Ant1	1.774
NVNT	2M	915	Ant1	1.778
NVNT	2M	925	Ant1	1.791
NVNT	4M	906	Ant1	3.664
NVNT	4M	914	Ant1	3.655
NVNT	4M	922	Ant1	3.625

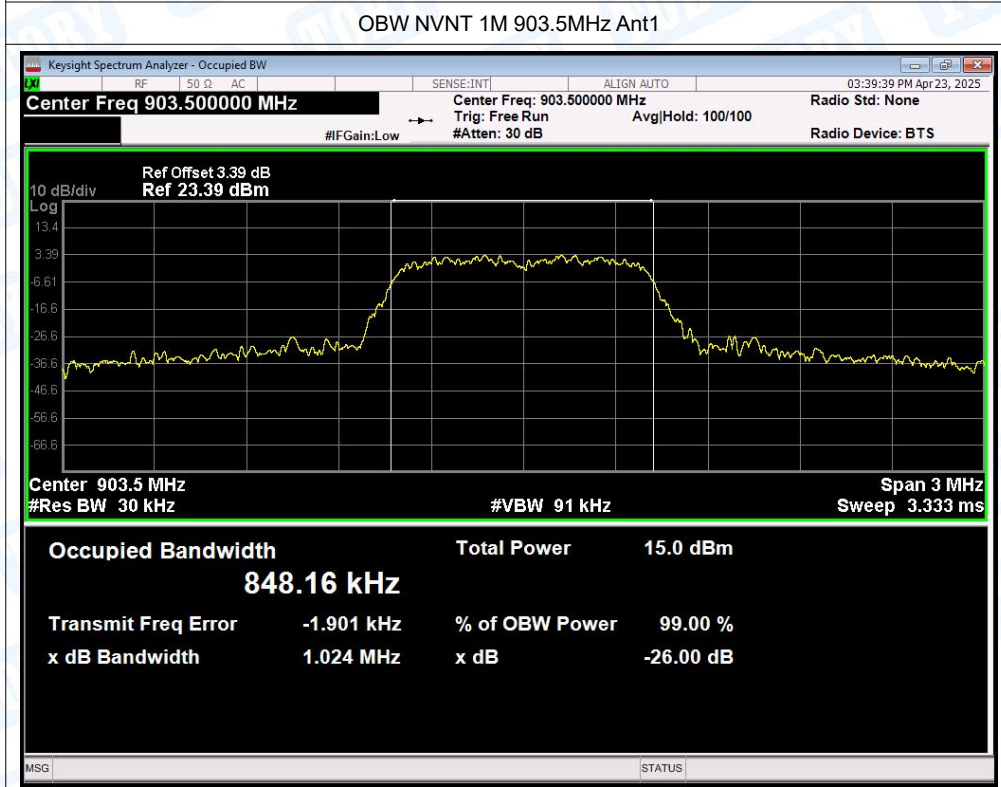
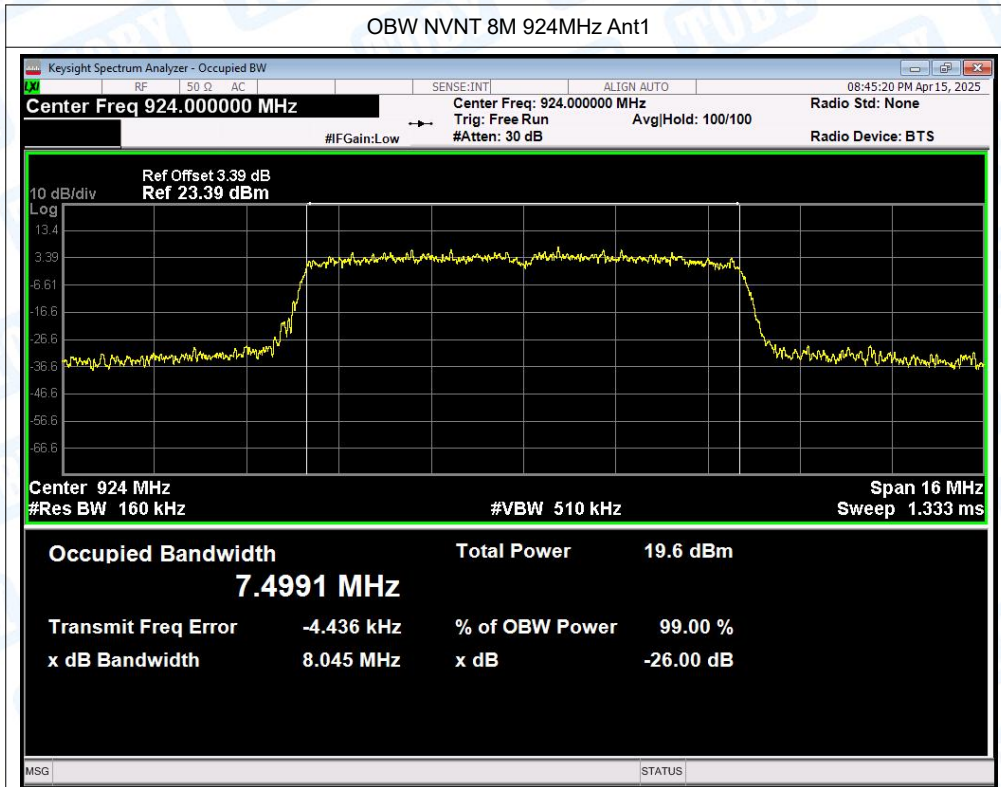
Test Graphs

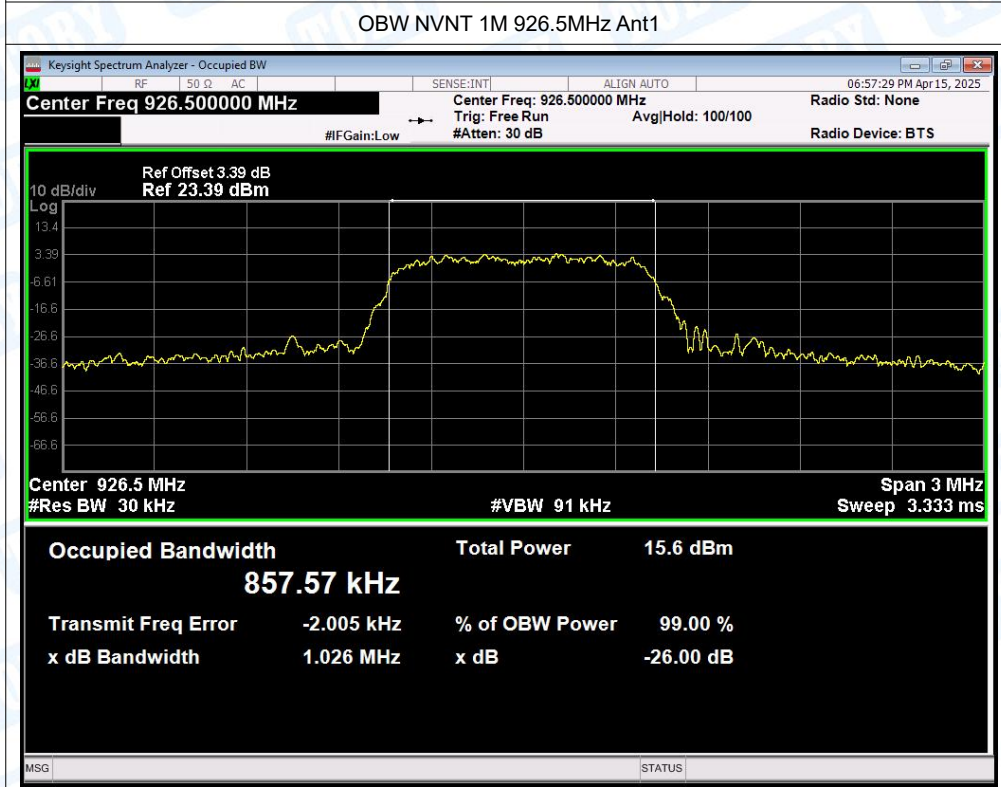
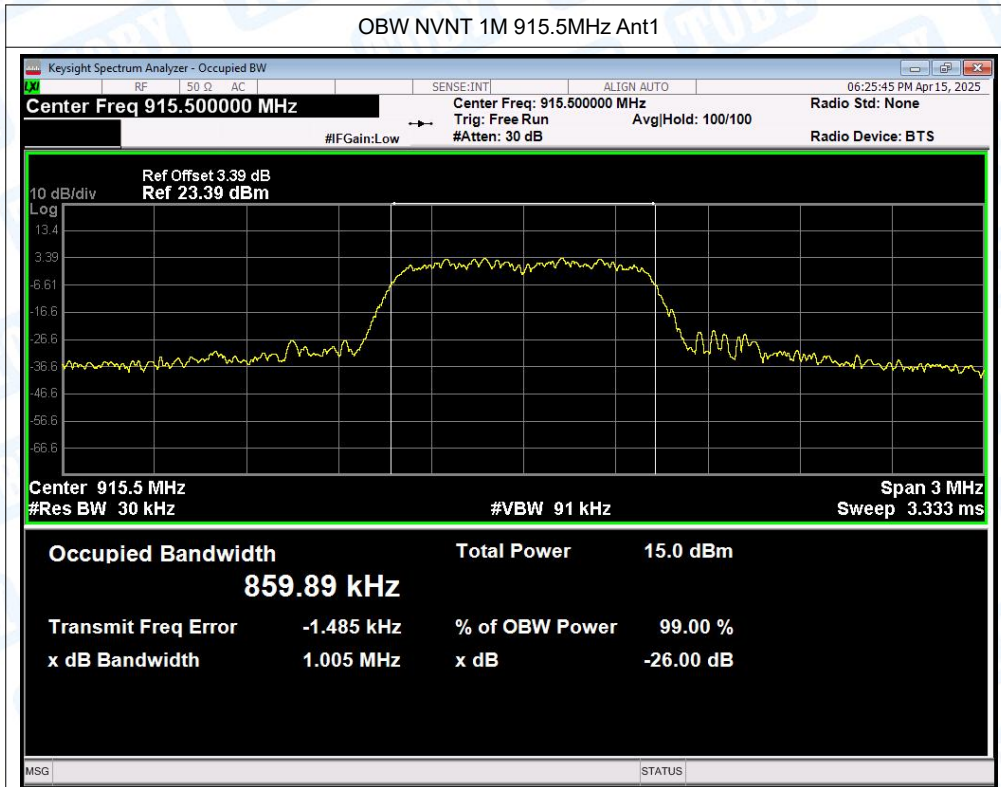
OBW NVNT 8M 908MHz Ant1

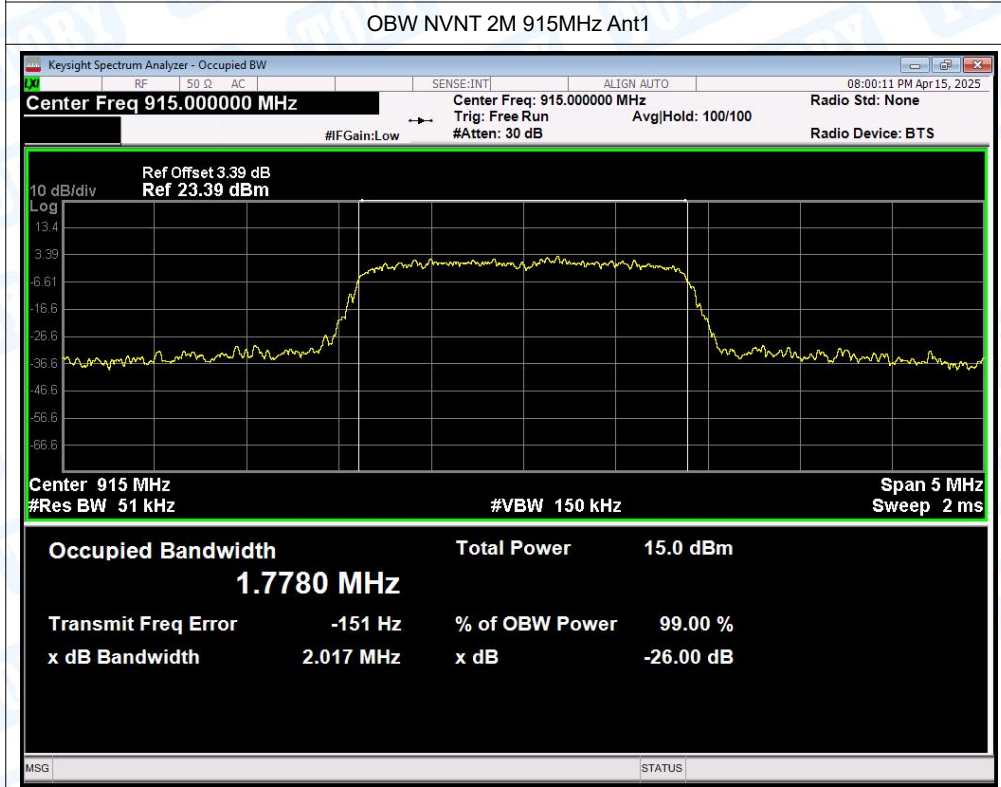
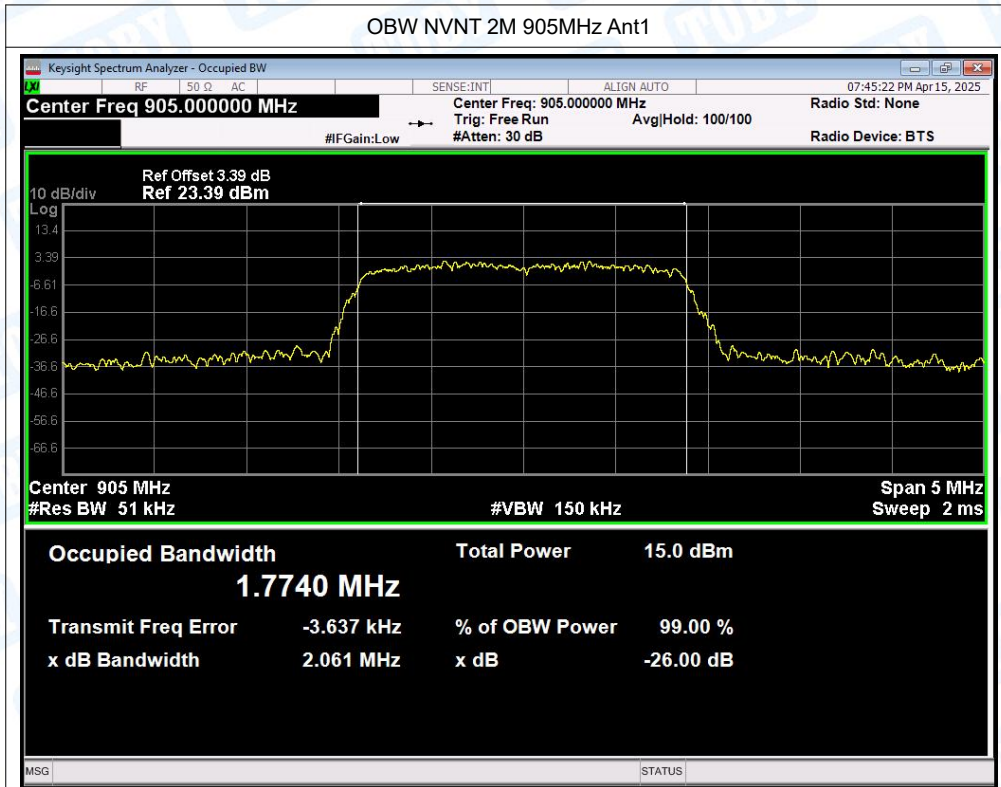


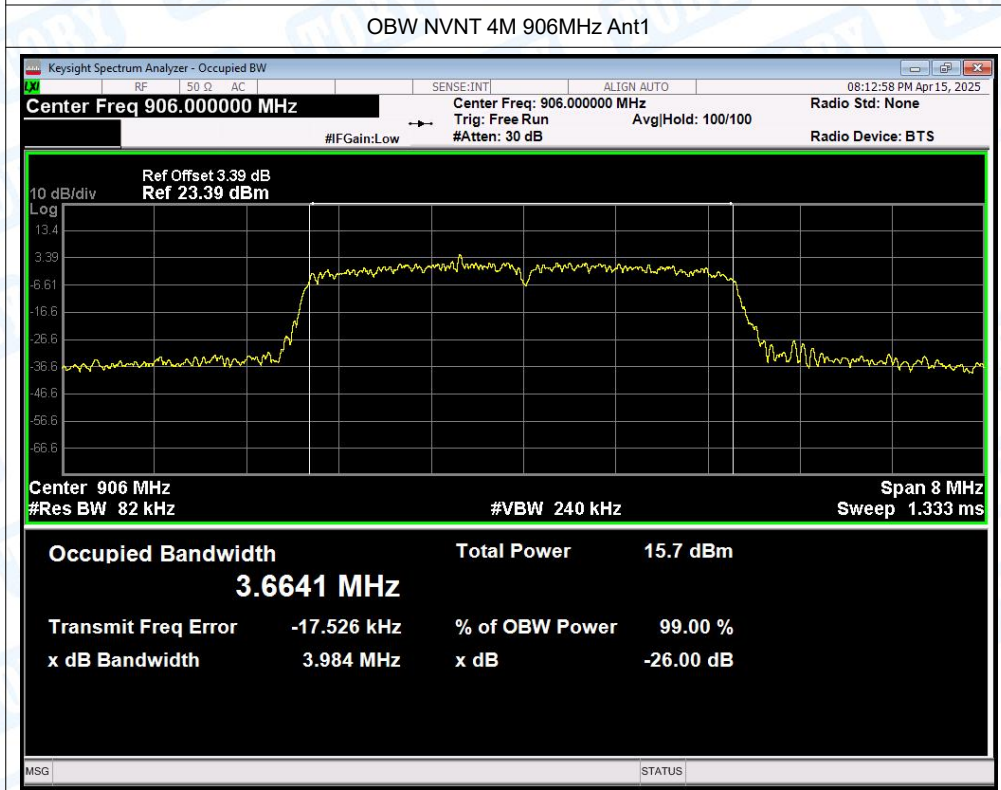
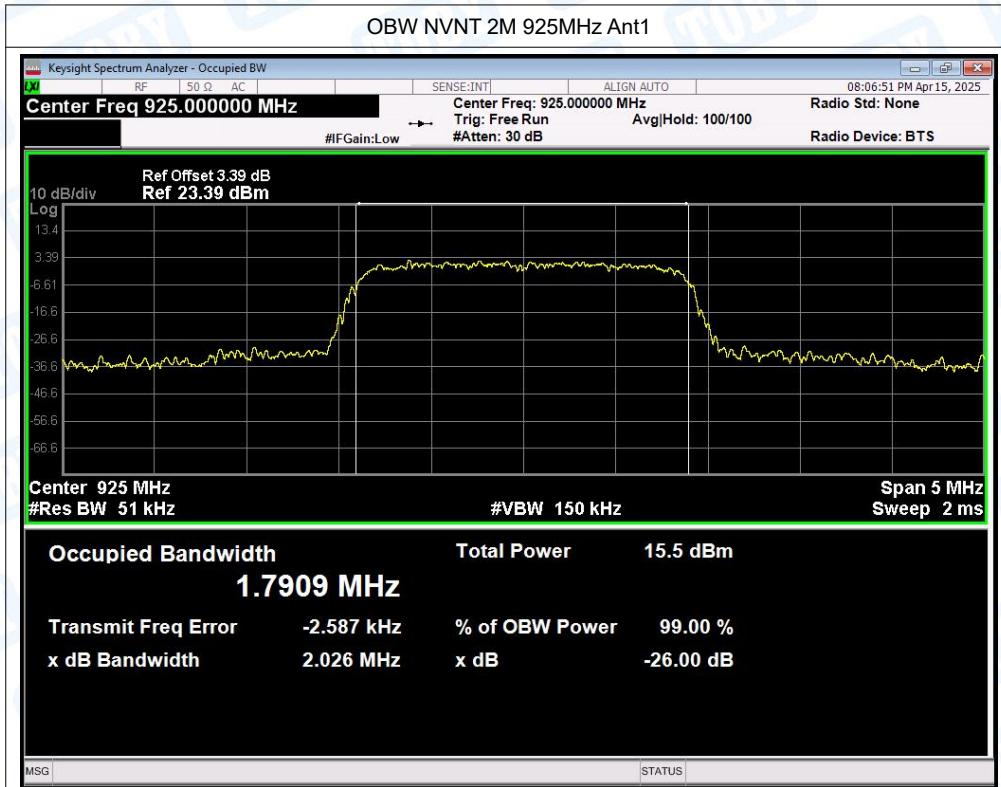
OBW NVNT 8M 916MHz Ant1

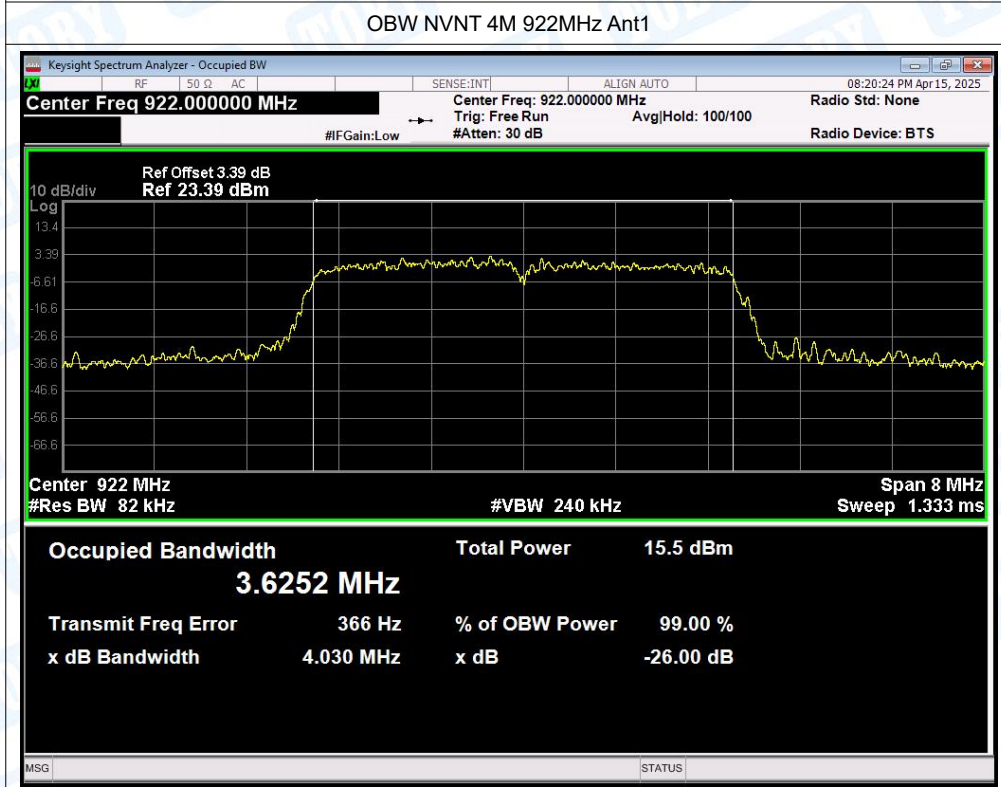
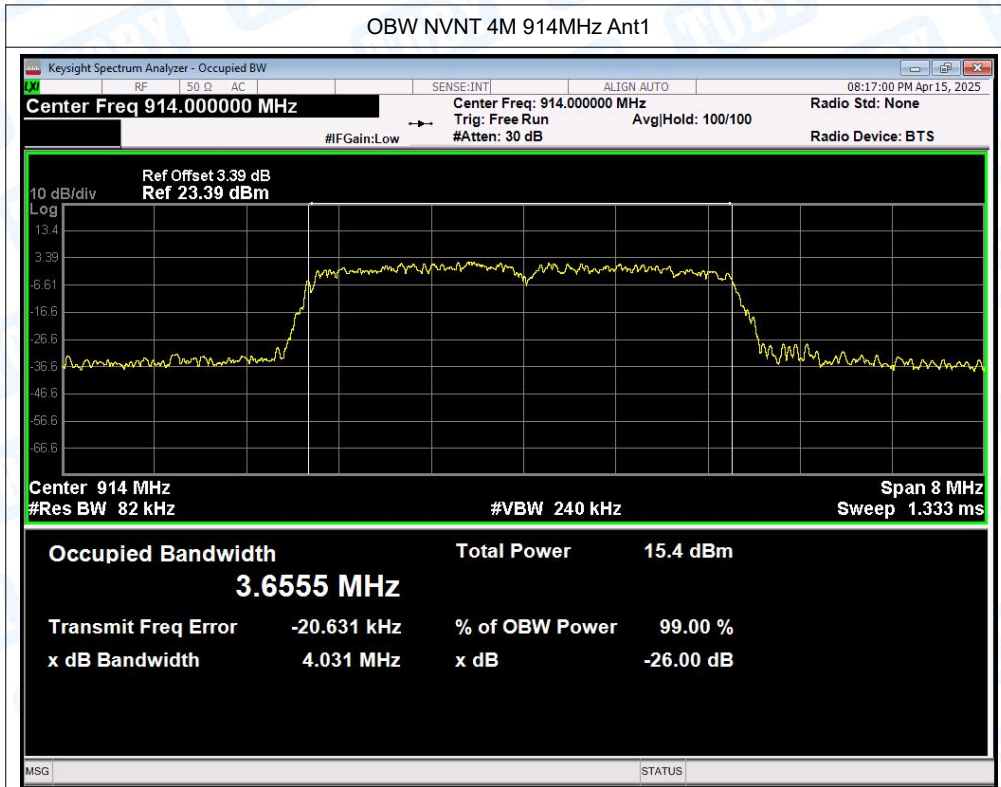










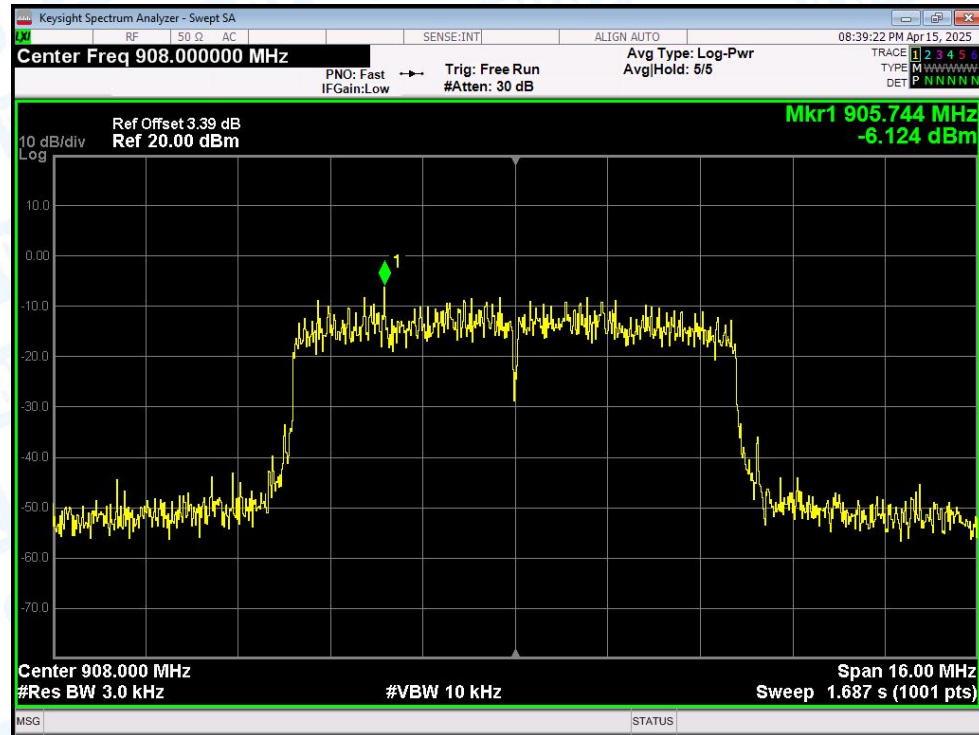


5. Maximum Power Spectral Density Level

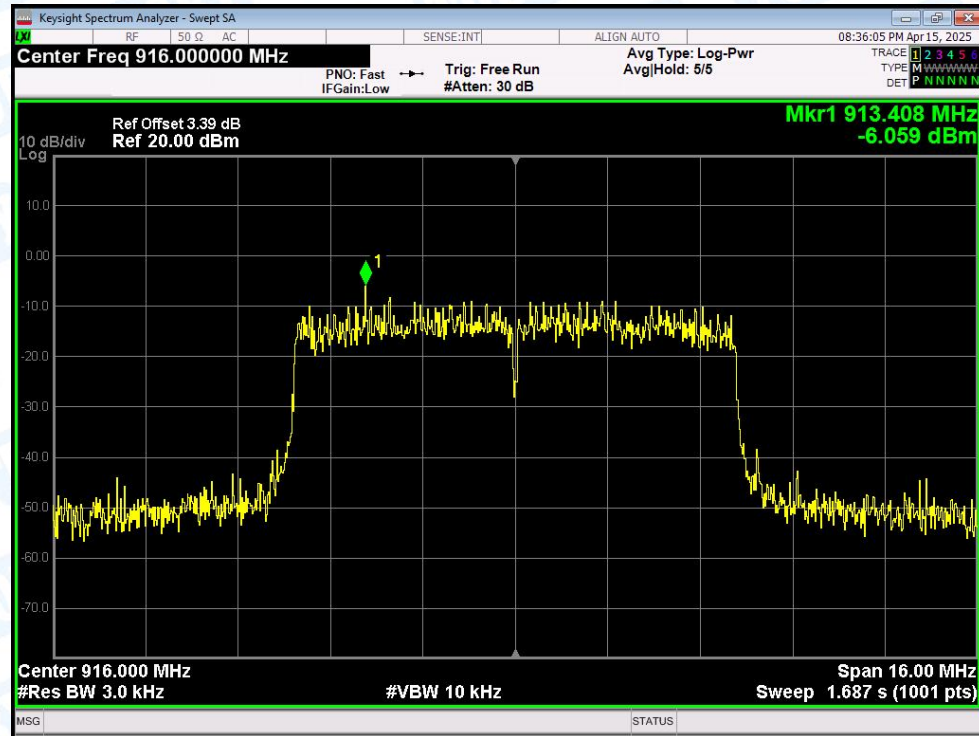
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	8M	908	Ant1	-6.124	8	Pass
NVNT	8M	916	Ant1	-6.059	8	Pass
NVNT	8M	924	Ant1	-7.26	8	Pass
NVNT	1M	903.5	Ant1	-1.156	8	Pass
NVNT	1M	915.5	Ant1	-1.827	8	Pass
NVNT	1M	926.5	Ant1	-0.648	8	Pass
NVNT	2M	905	Ant1	-7.145	8	Pass
NVNT	2M	915	Ant1	-6.587	8	Pass
NVNT	2M	925	Ant1	-6.517	8	Pass
NVNT	4M	906	Ant1	-10.192	8	Pass
NVNT	4M	914	Ant1	-8.799	8	Pass
NVNT	4M	922	Ant1	-9.64	8	Pass

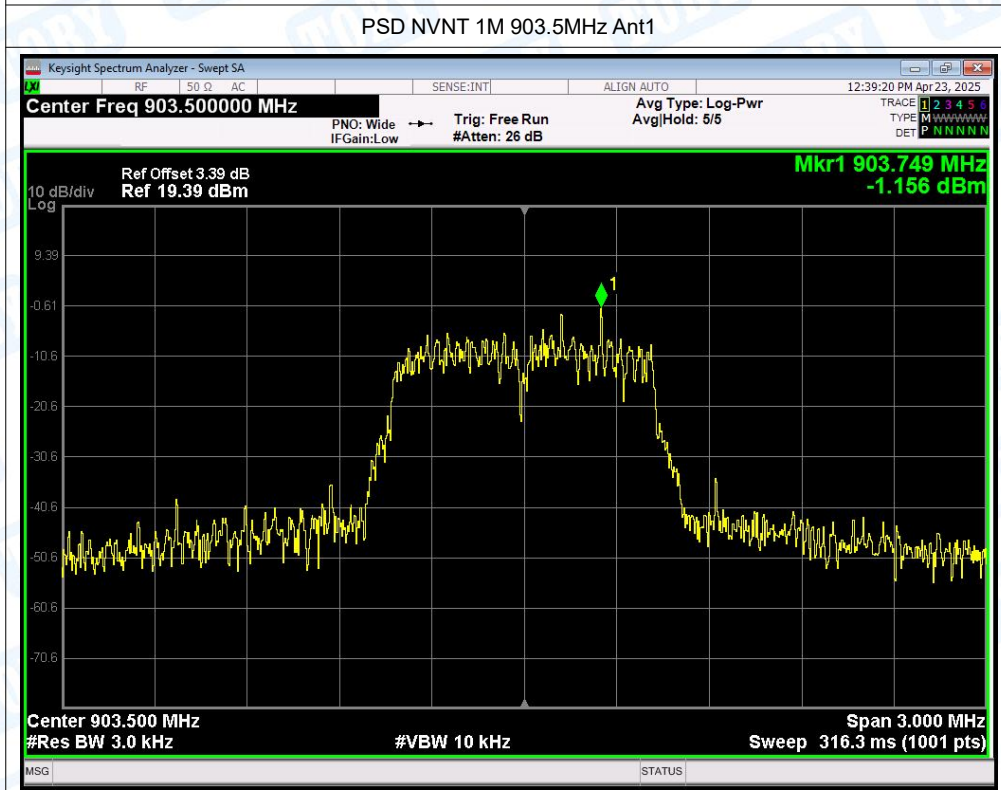
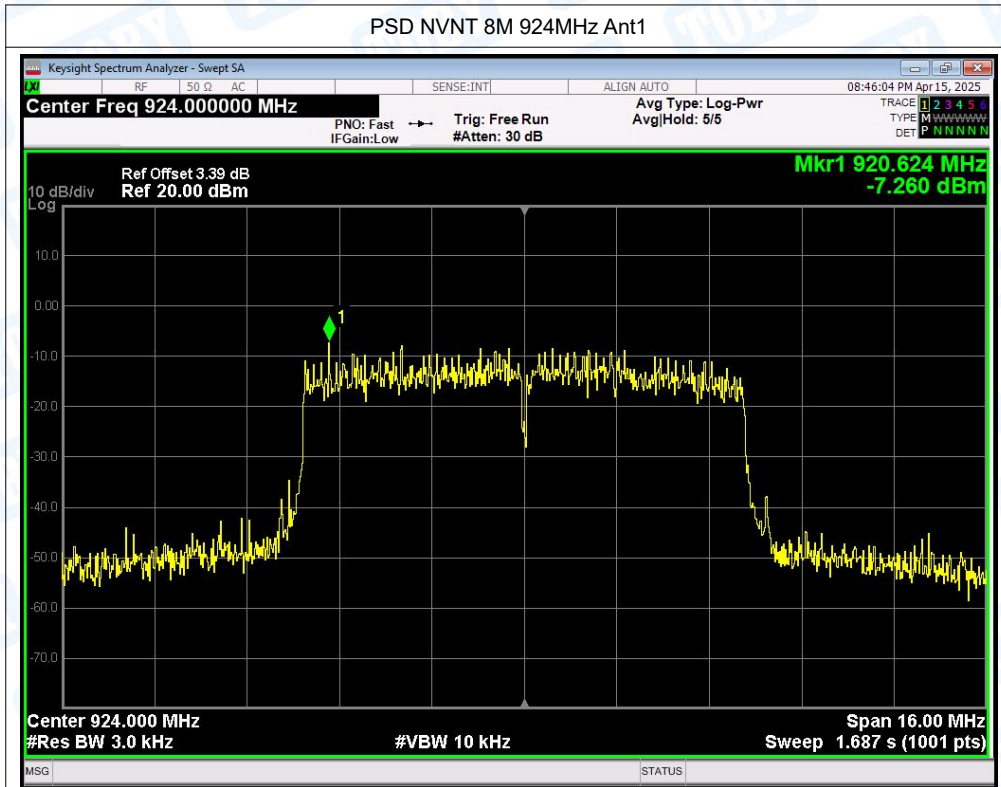
Test Graphs

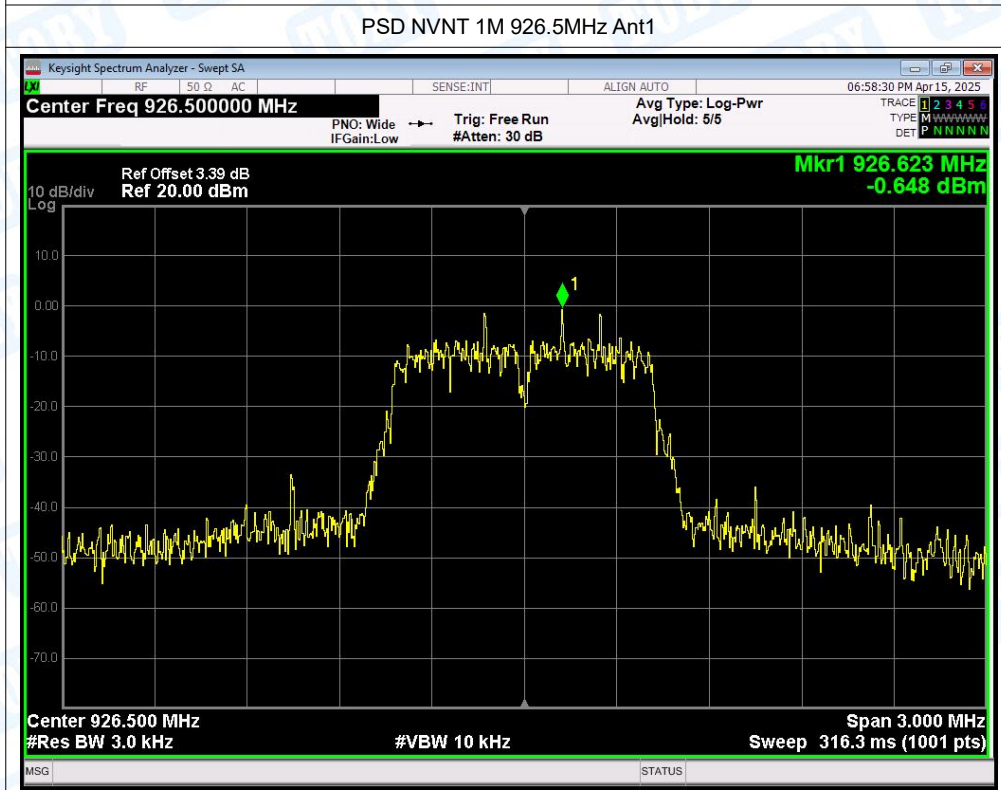
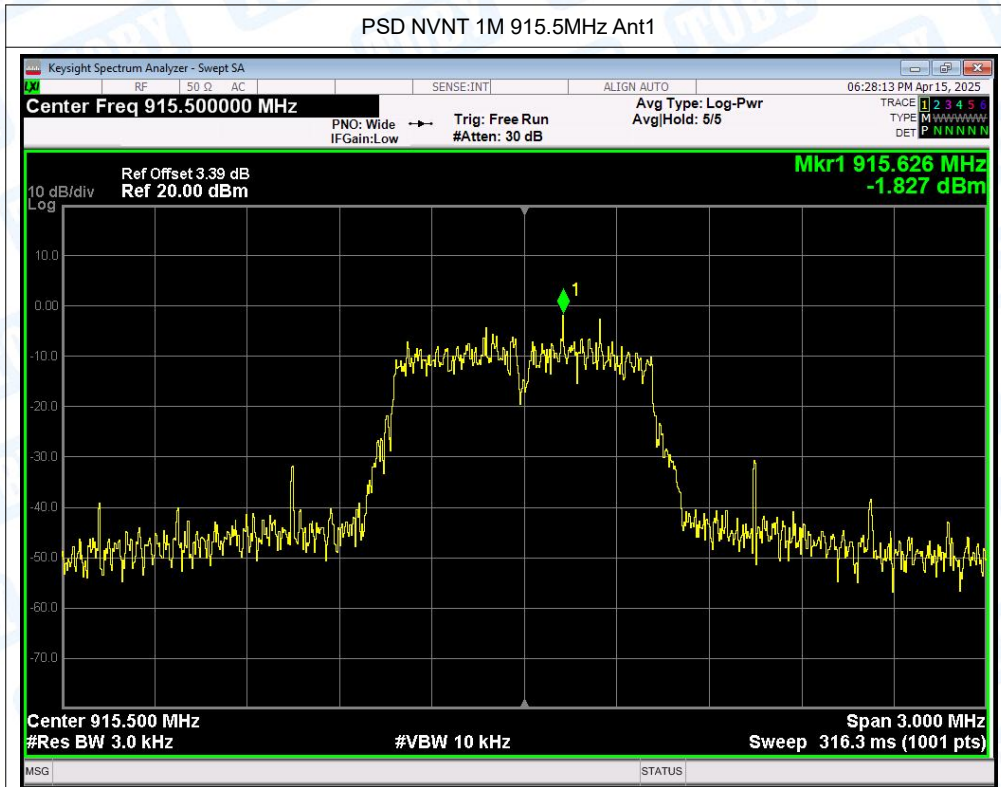
PSD NVNT 8M 908MHz Ant1

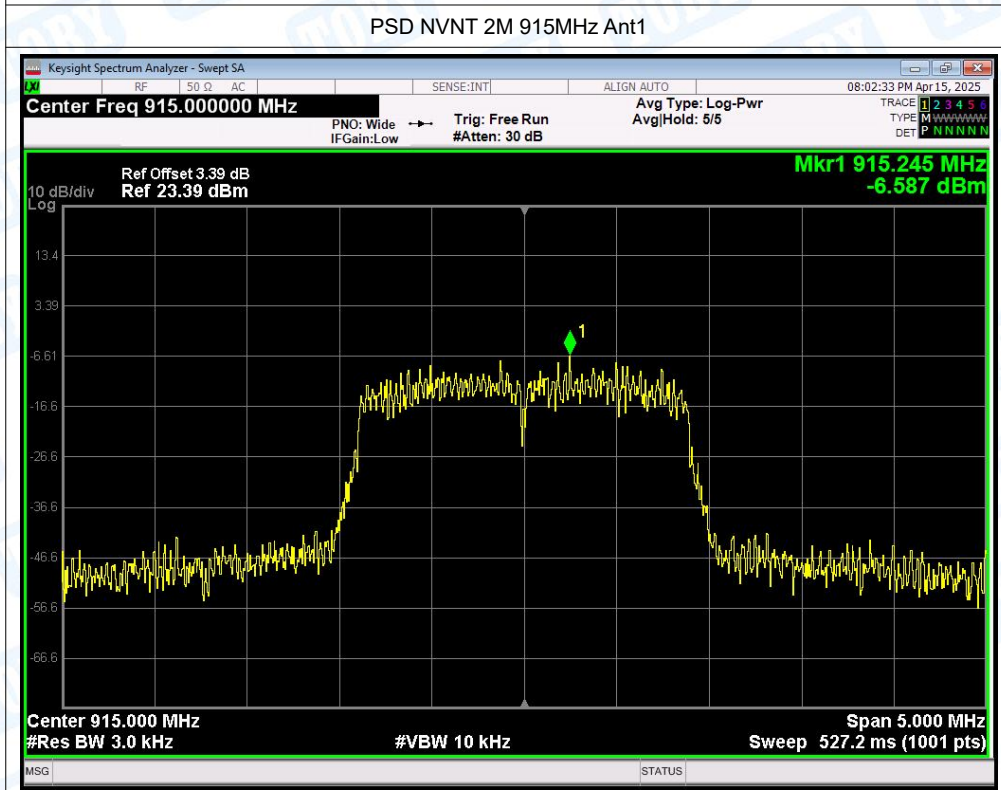
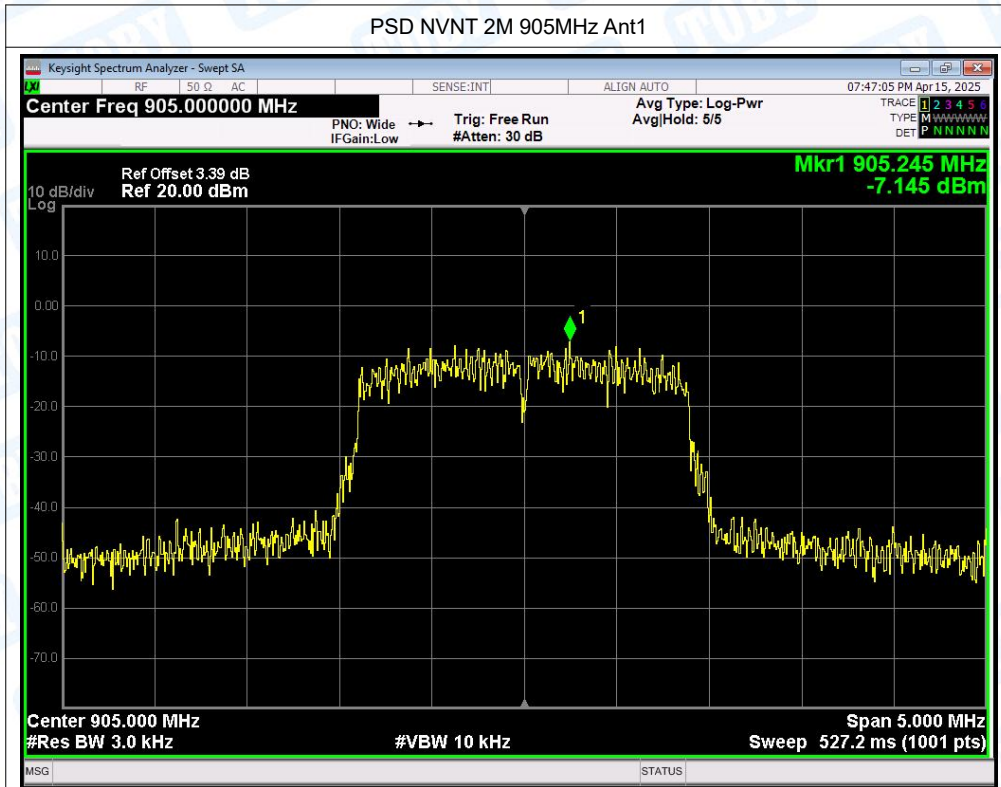


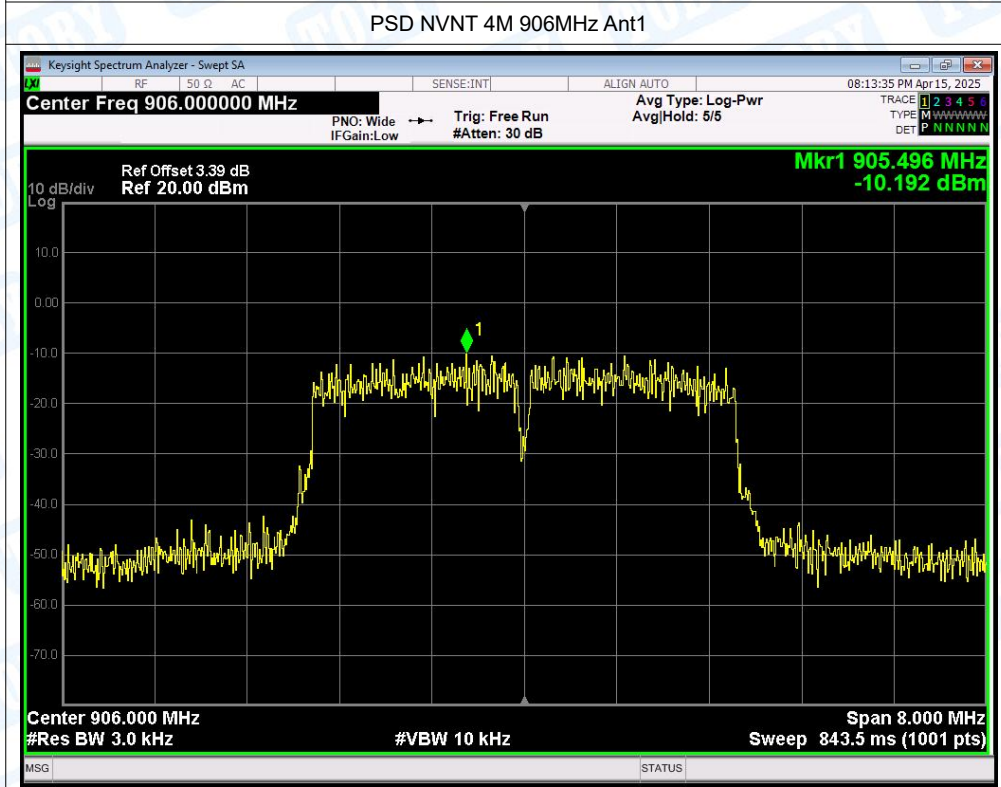
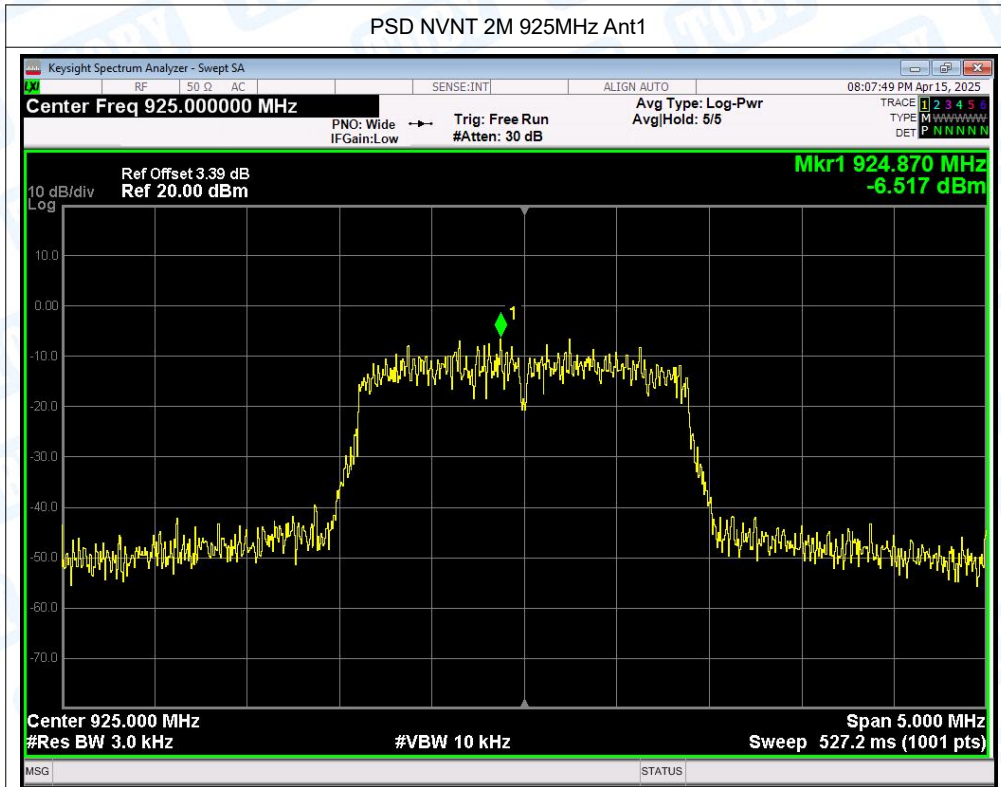
PSD NVNT 8M 916MHz Ant1

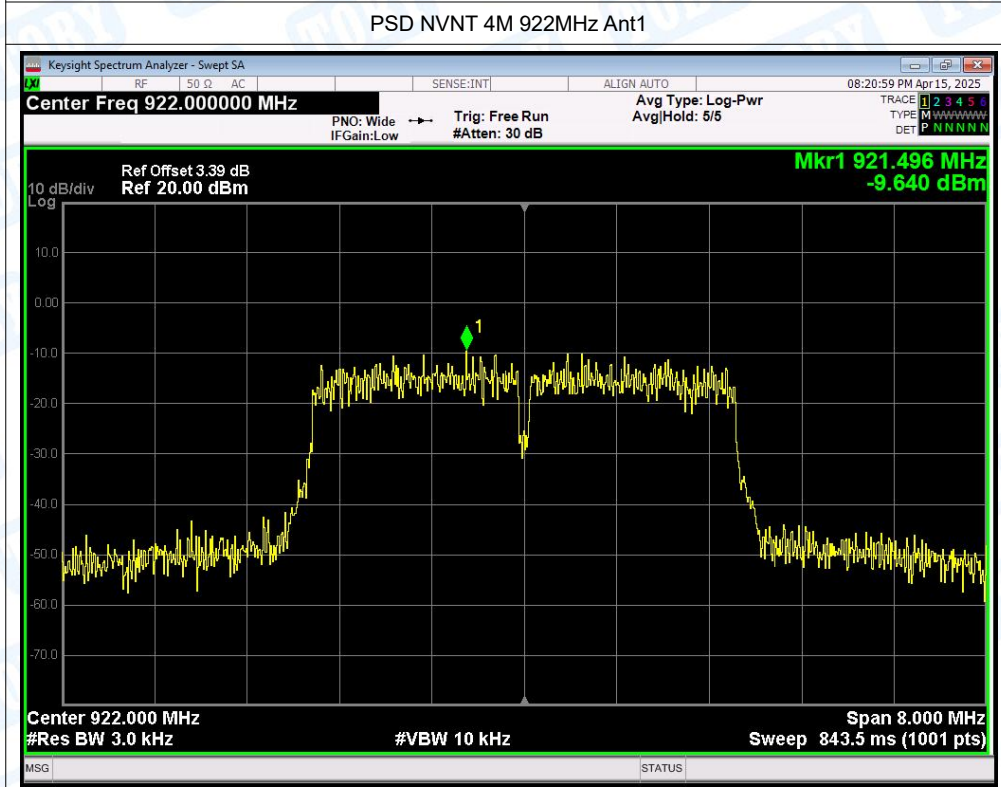
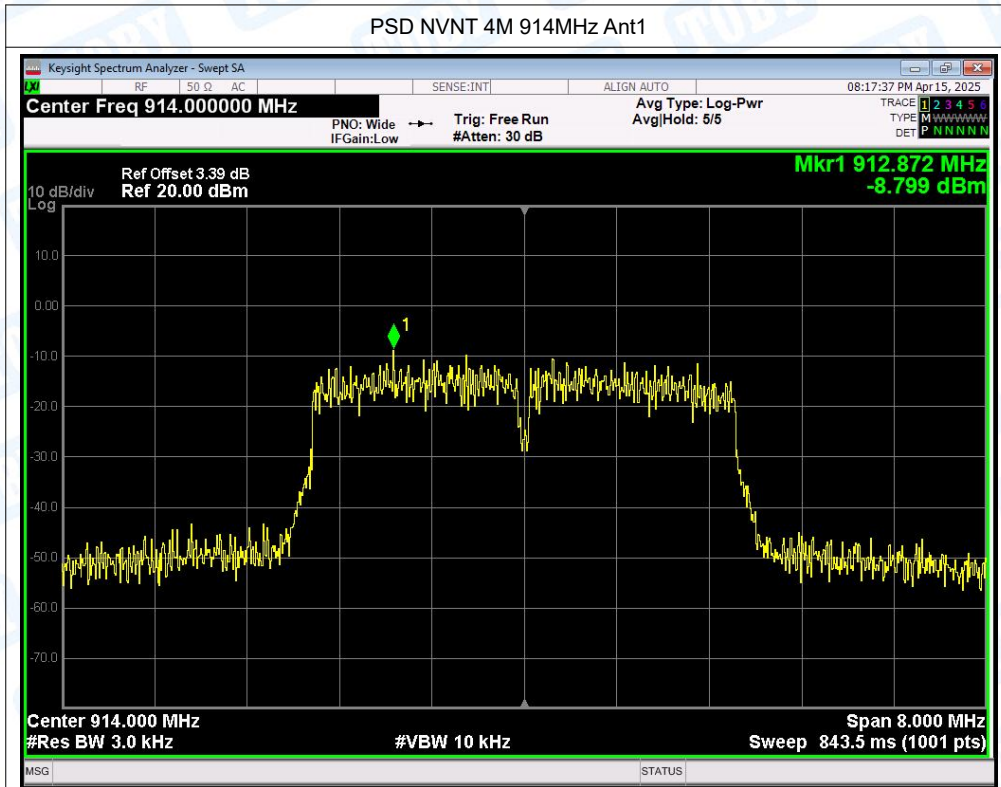










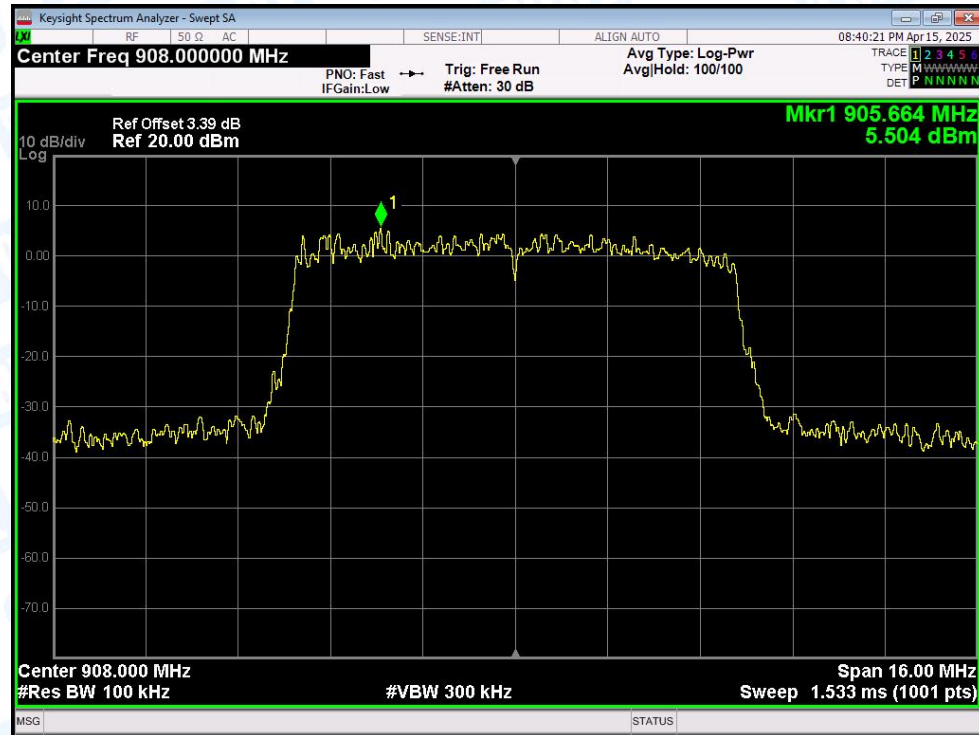


6. Band Edge

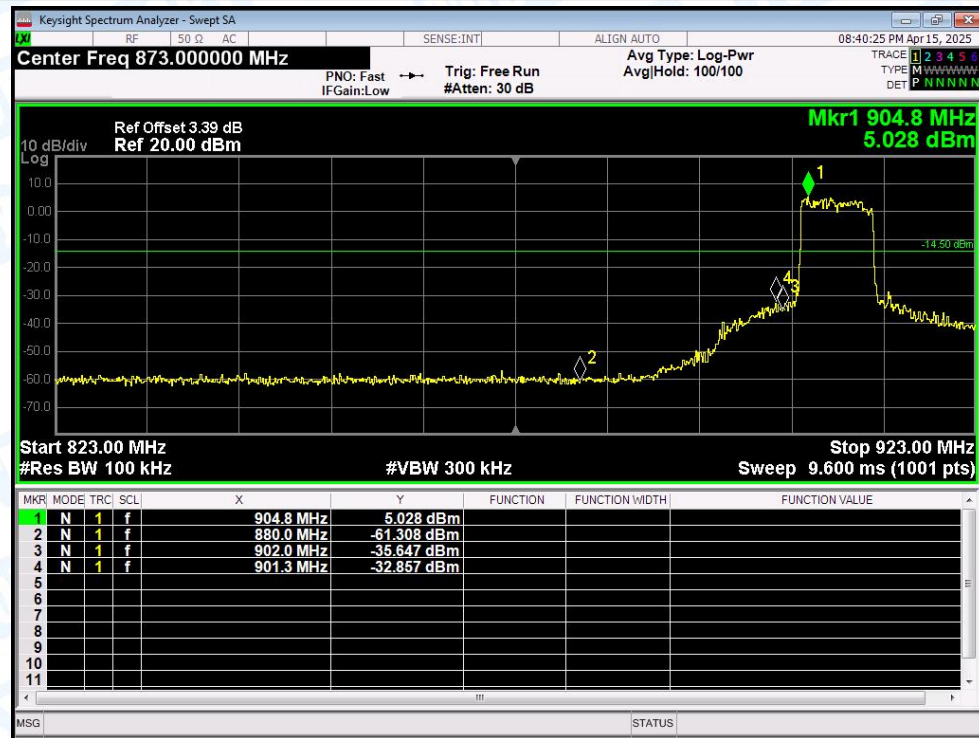
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	8M	908	Ant1	-38.36	-20	Pass
NVNT	8M	924	Ant1	-26.4	-20	Pass
NVNT	1M	903.5	Ant1	-39.39	-30	Pass
NVNT	1M	926.5	Ant1	-40.17	-20	Pass
NVNT	2M	905	Ant1	-39.66	-20	Pass
NVNT	2M	925	Ant1	-37.14	-20	Pass
NVNT	4M	906	Ant1	-37.15	-20	Pass
NVNT	4M	922	Ant1	-41.81	-20	Pass

Test Graphs

Band Edge NVNT 8M 908MHz Ant1 Ref



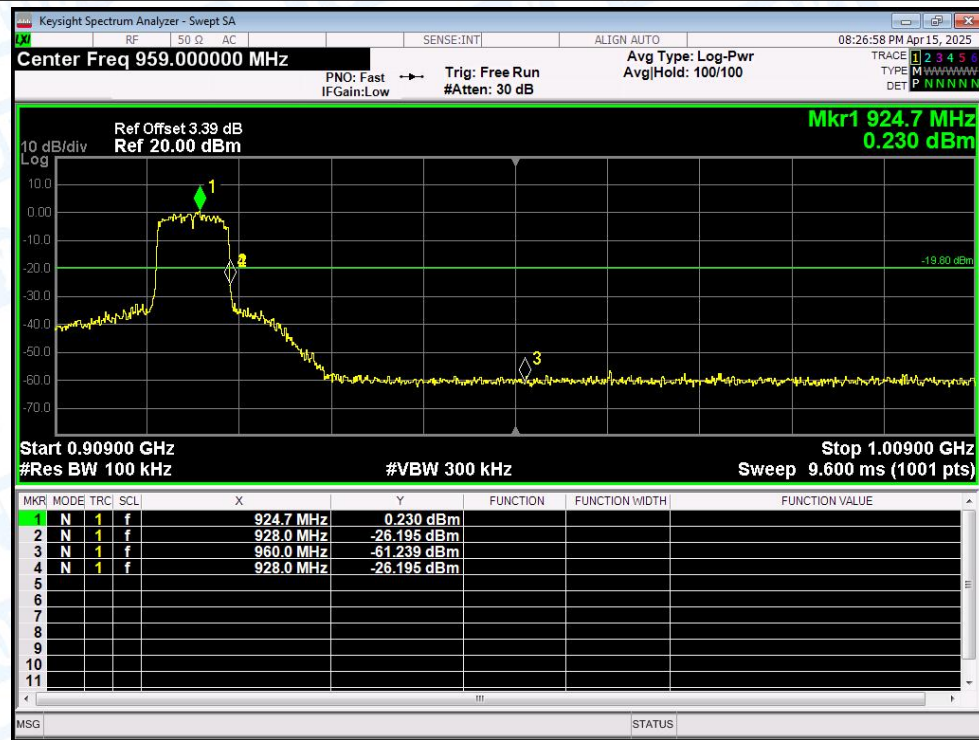
Band Edge NVNT 8M 908MHz Ant1 Emission

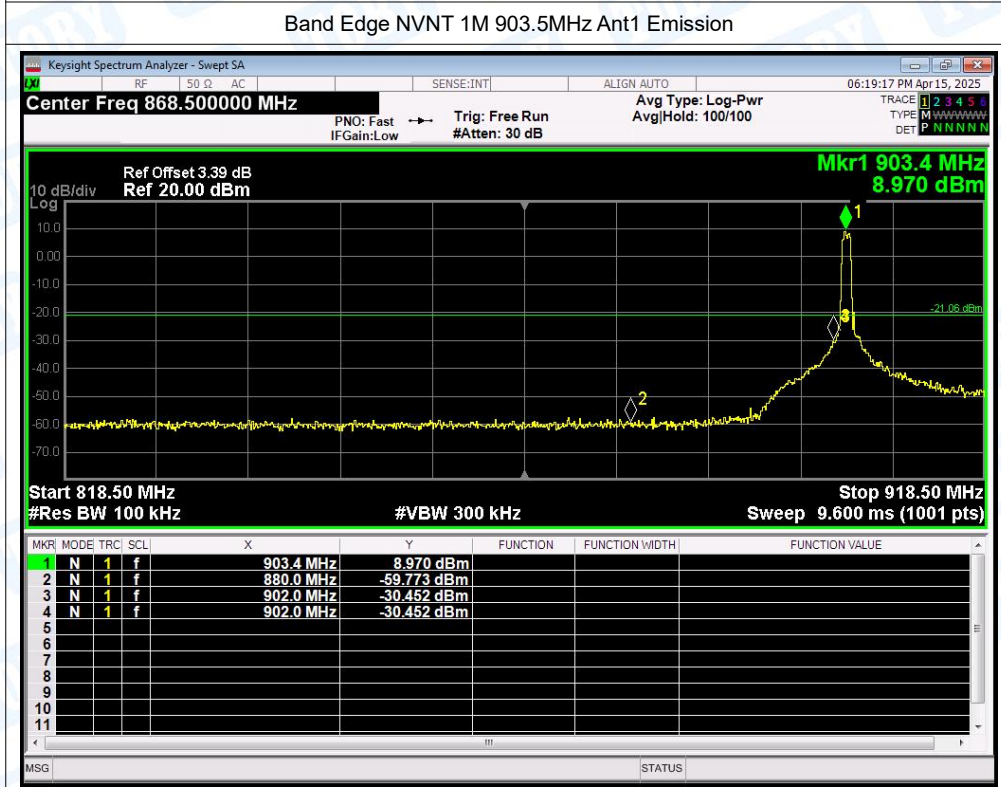
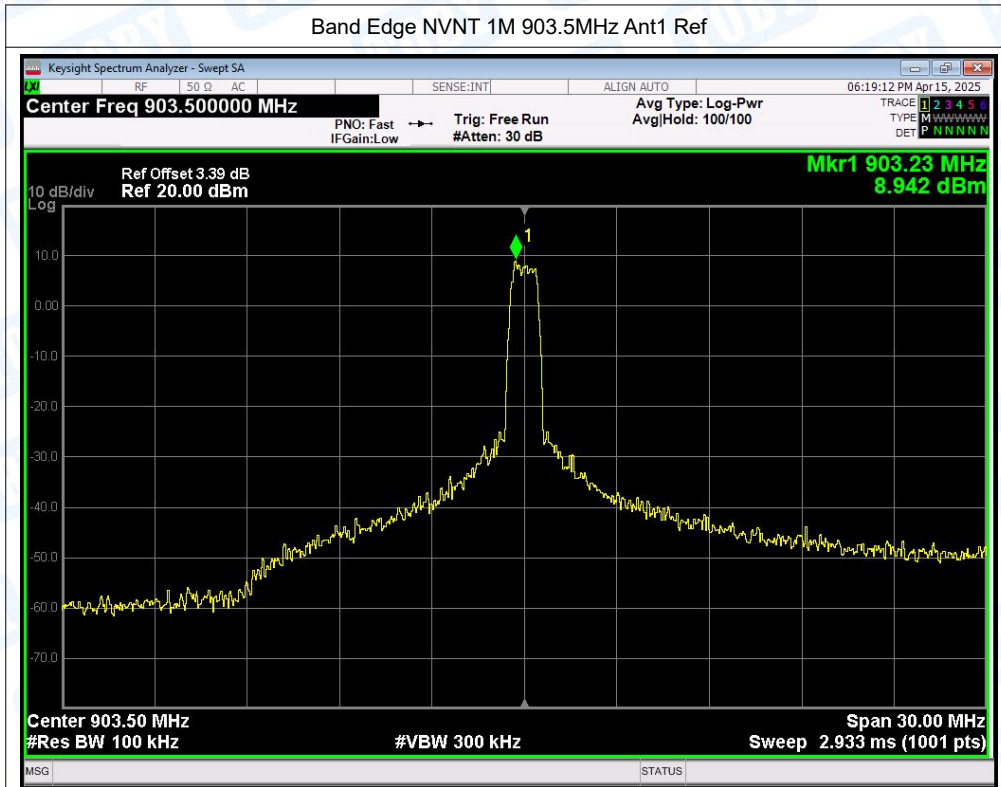


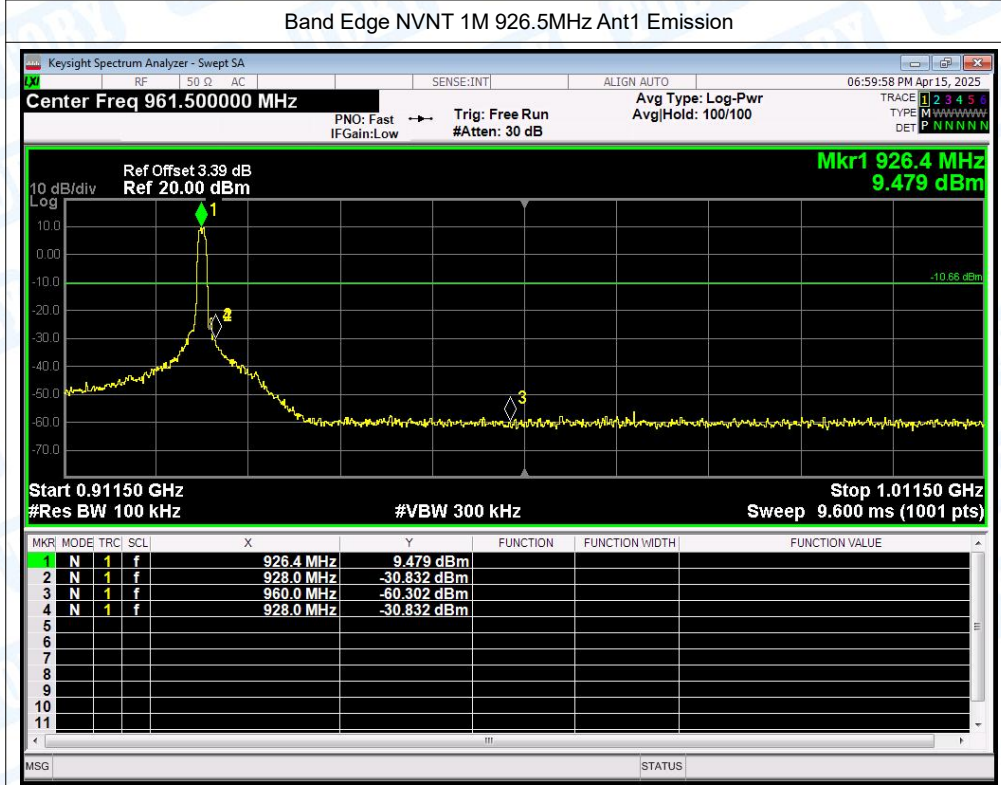
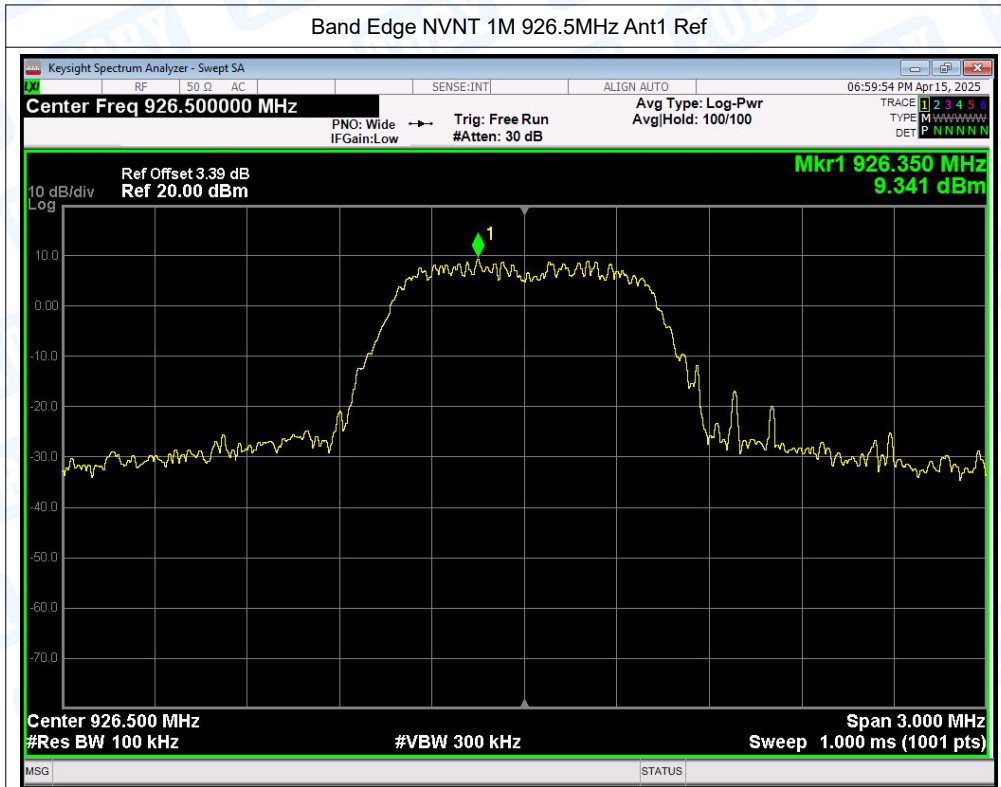
Band Edge NVNT 8M 924MHz Ant1 Ref



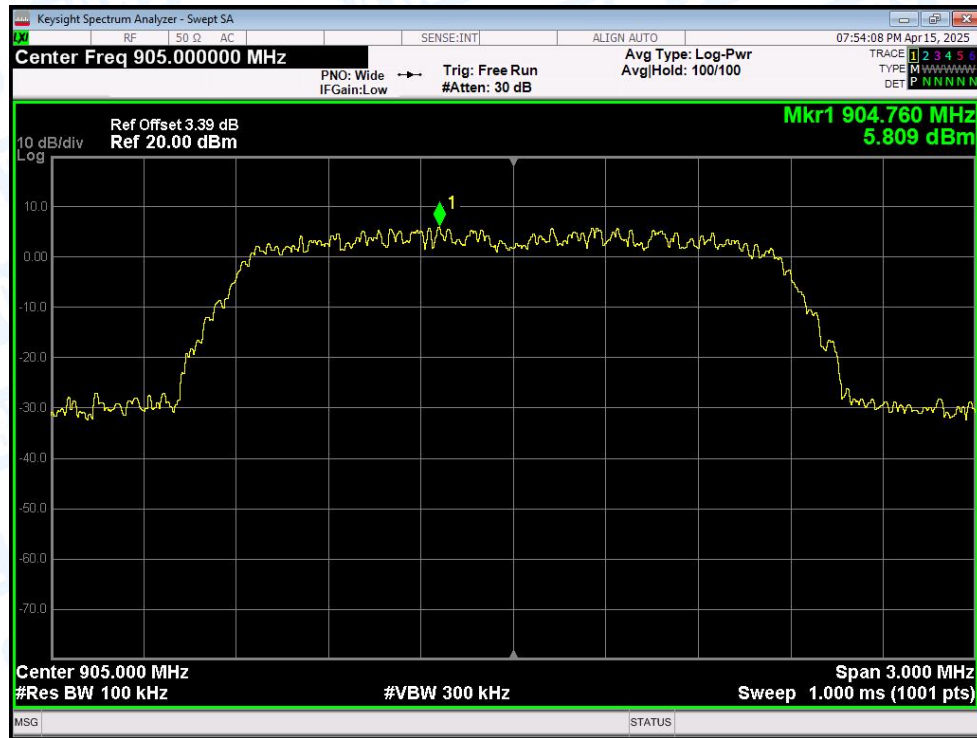
Band Edge NVNT 8M 924MHz Ant1 Emission



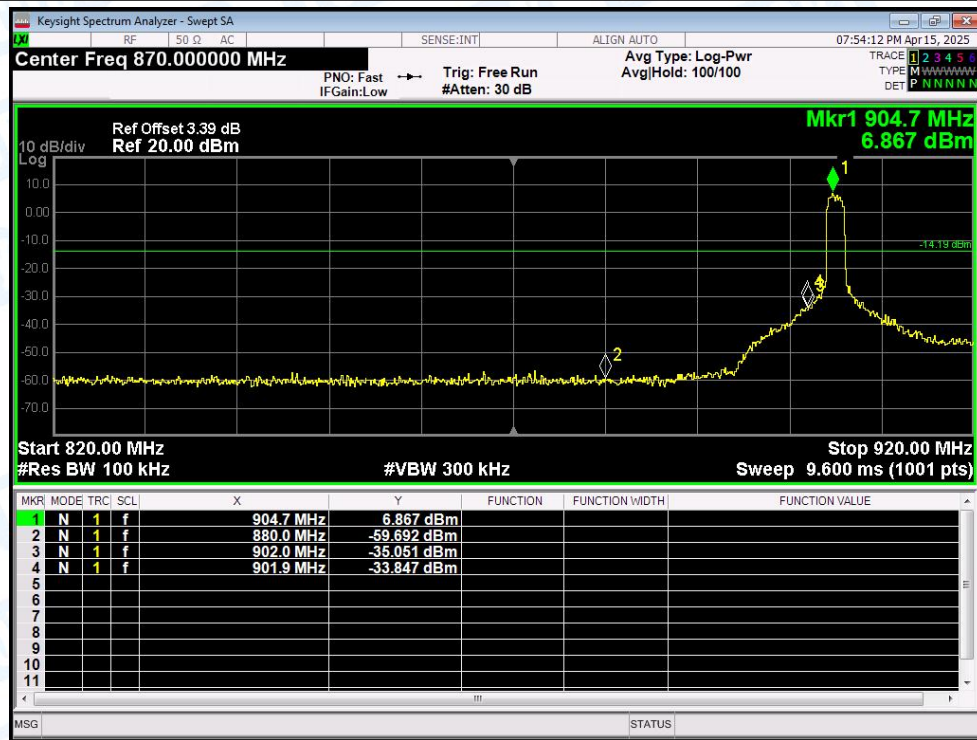




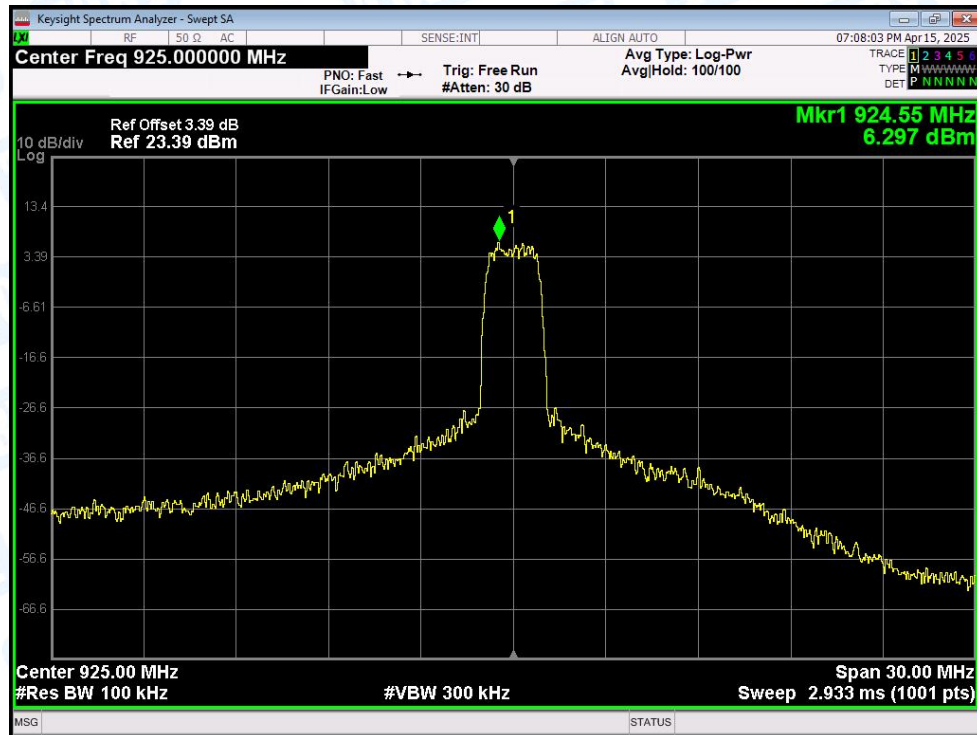
Band Edge NVNT 2M 905MHz Ant1 Ref



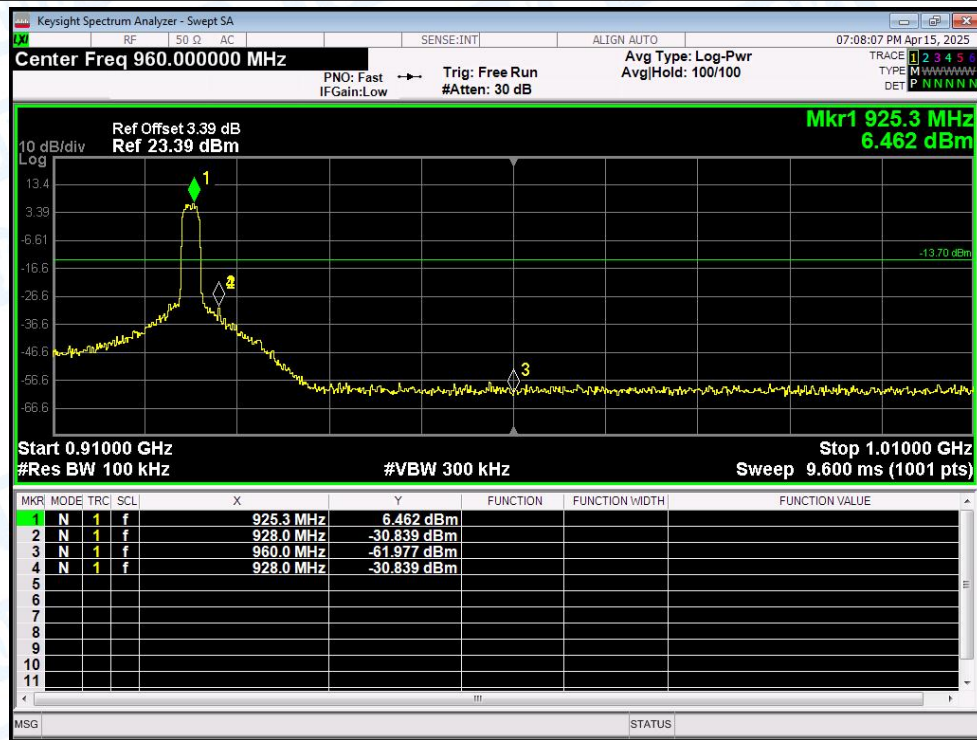
Band Edge NVNT 2M 905MHz Ant1 Emission



Band Edge NVNT 2M 925MHz Ant1 Ref



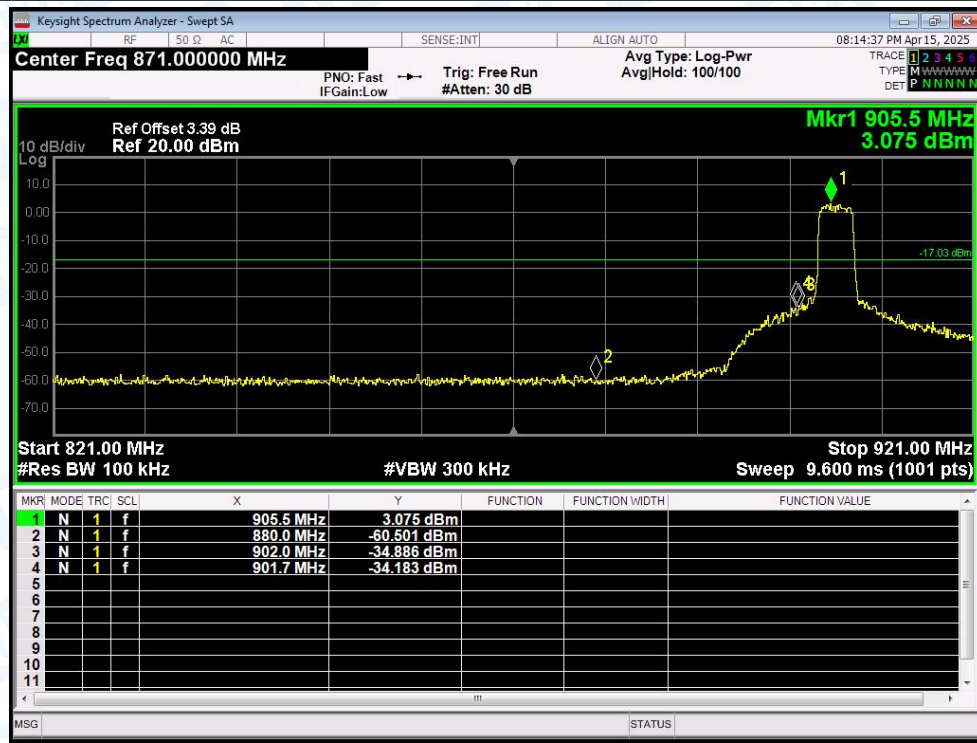
Band Edge NVNT 2M 925MHz Ant1 Emission



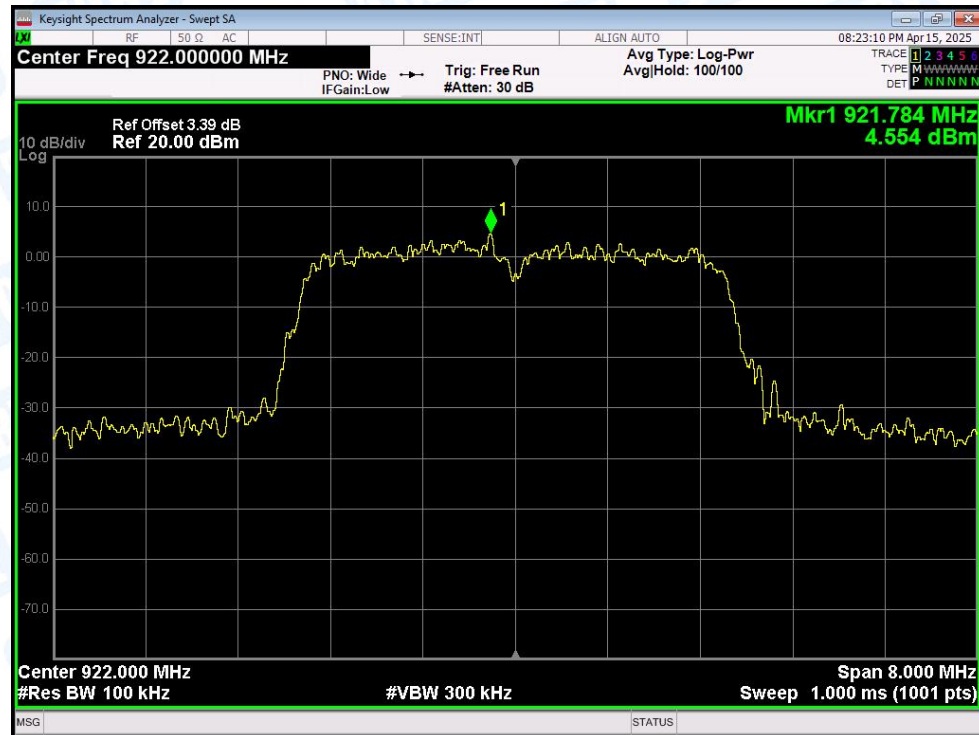
Band Edge NVNT 4M 906MHz Ant1 Ref



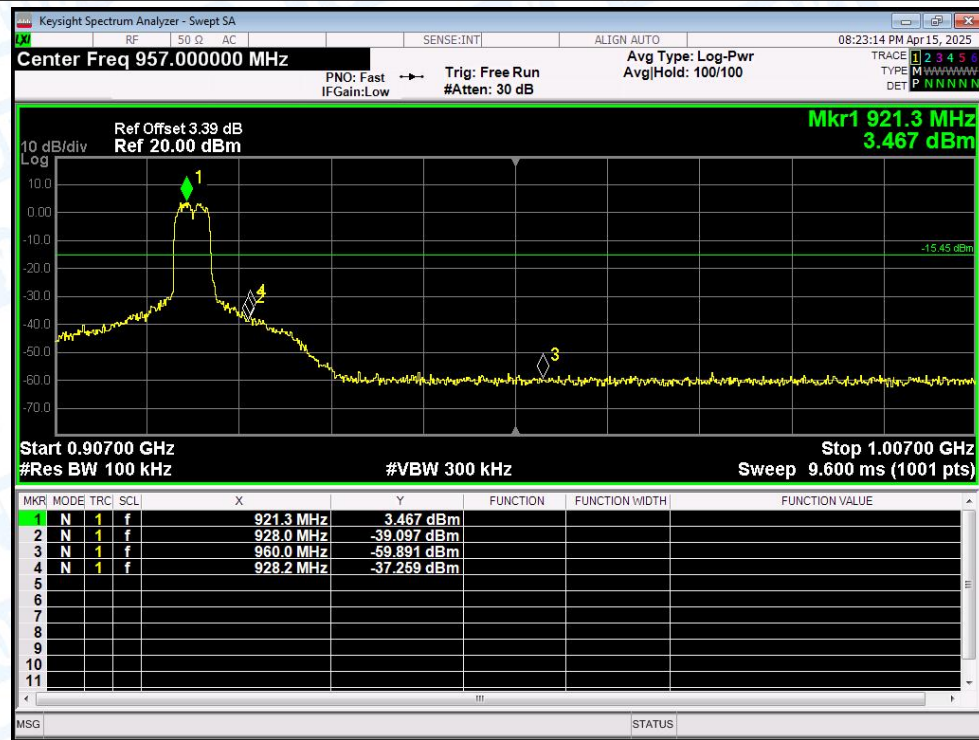
Band Edge NVNT 4M 906MHz Ant1 Emission



Band Edge NVNT 4M 922MHz Ant1 Ref



Band Edge NVNT 4M 922MHz Ant1 Emission

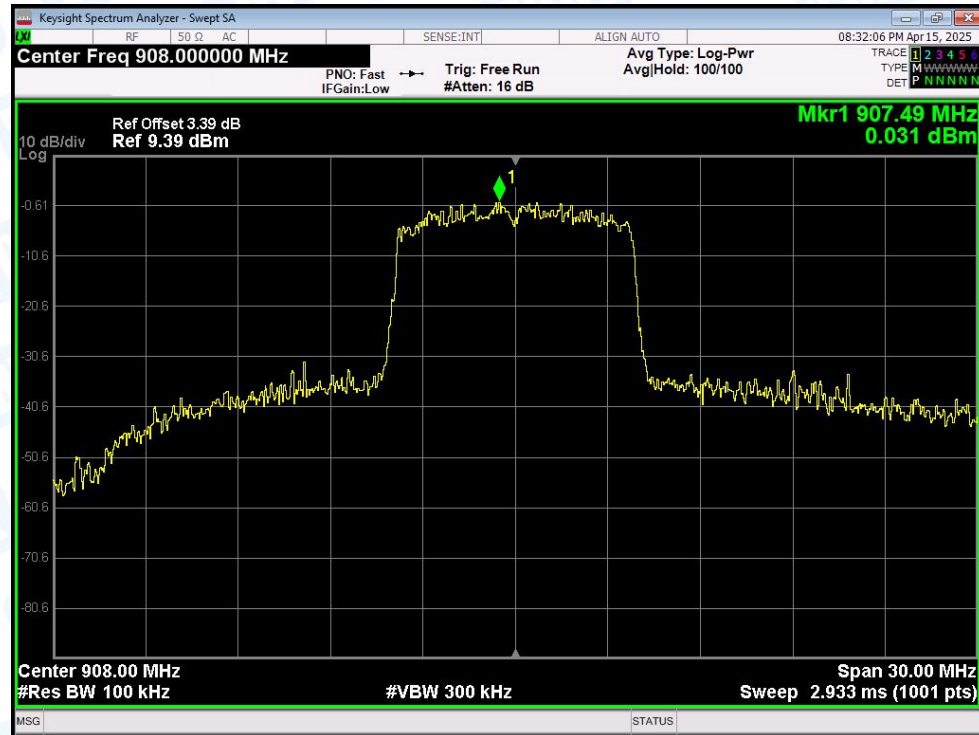


7. Conducted RF Spurious Emission

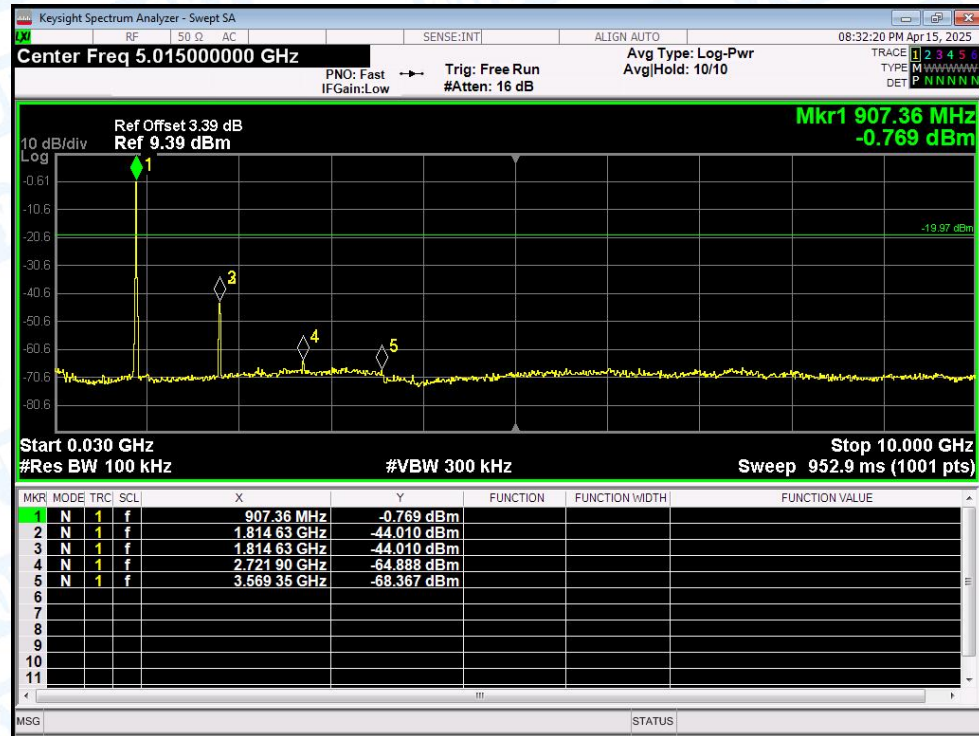
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	8M	908	Ant1	-44.04	-20	Pass
NVNT	8M	916	Ant1	-42.49	-20	Pass
NVNT	8M	924	Ant1	-42.55	-20	Pass
NVNT	1M	903.5	Ant1	-46.1	-20	Pass
NVNT	1M	915.5	Ant1	-41.9	-20	Pass
NVNT	1M	926.5	Ant1	-47.42	-20	Pass
NVNT	2M	905	Ant1	-45.87	-20	Pass
NVNT	2M	915	Ant1	-41.95	-20	Pass
NVNT	2M	925	Ant1	-46.27	-20	Pass
NVNT	4M	906	Ant1	-44.42	-20	Pass
NVNT	4M	914	Ant1	-40.17	-20	Pass
NVNT	4M	922	Ant1	-46.55	-20	Pass

Test Graphs

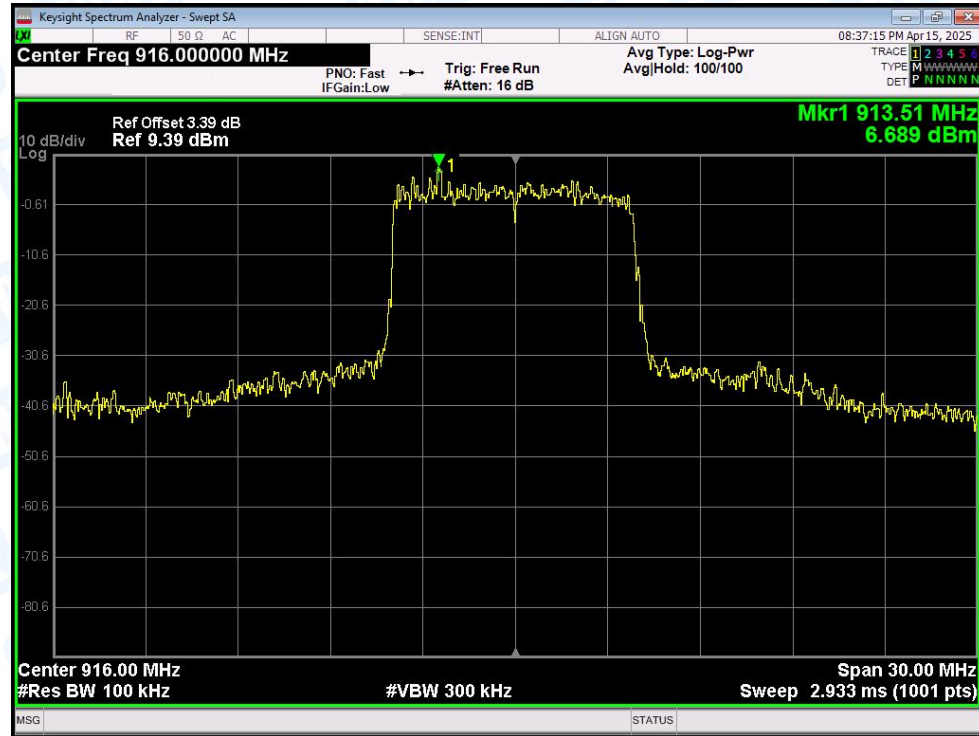
Tx. Spurious NVNT 8M 908MHz Ant1 Ref



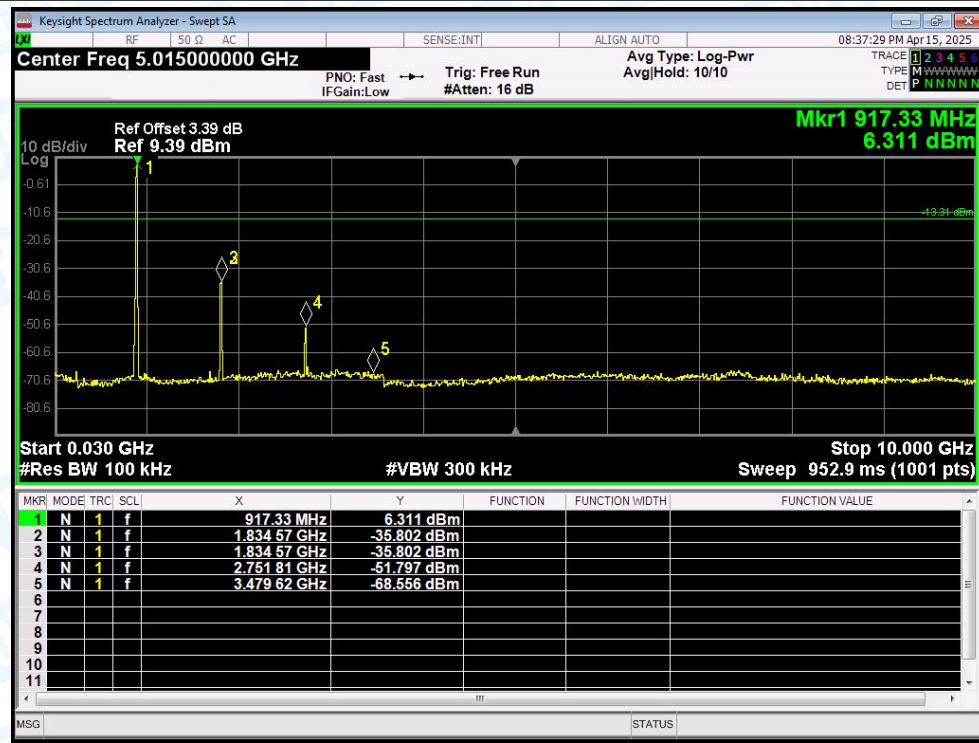
Tx. Spurious NVNT 8M 908MHz Ant1 Emission



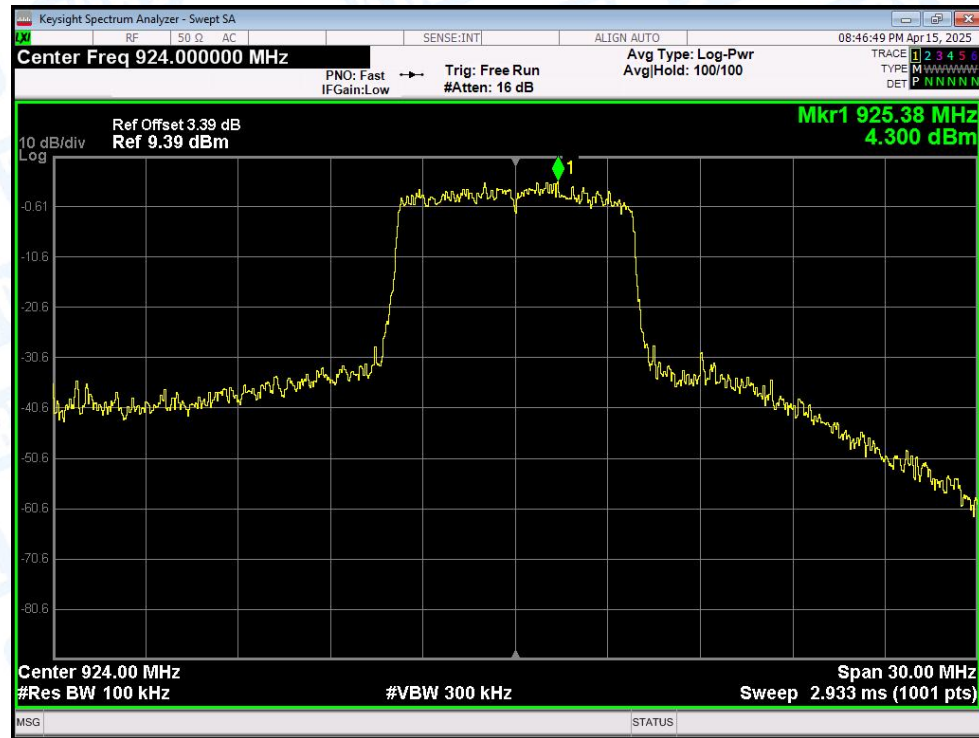
Tx. Spurious NVNT 8M 916MHz Ant1 Ref



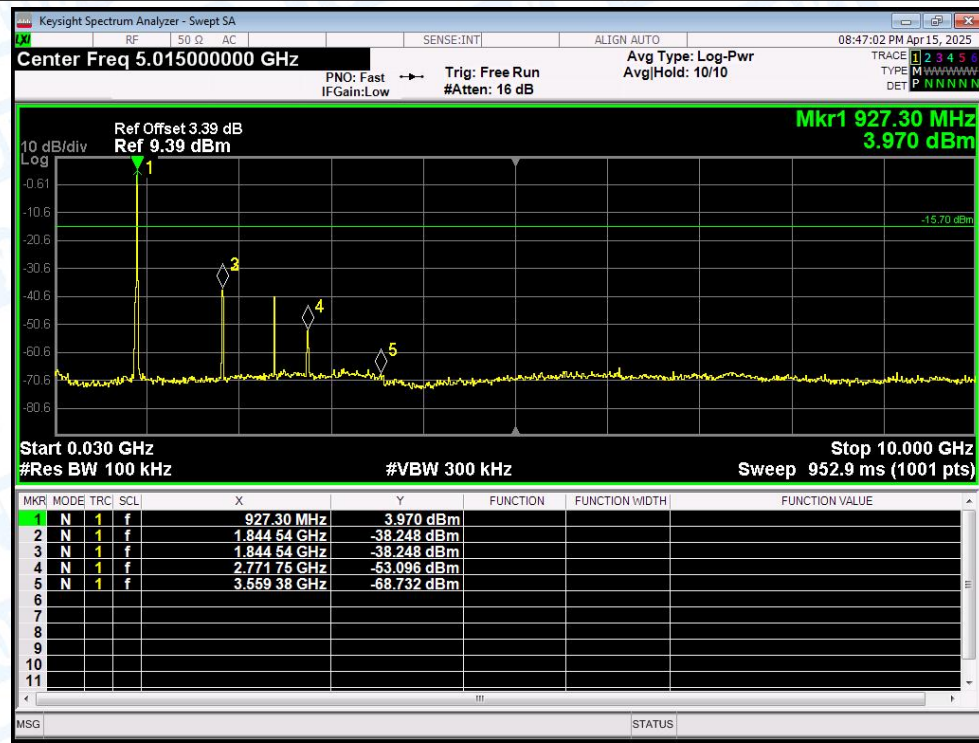
Tx. Spurious NVNT 8M 916MHz Ant1 Emission



Tx. Spurious NVNT 8M 924MHz Ant1 Ref



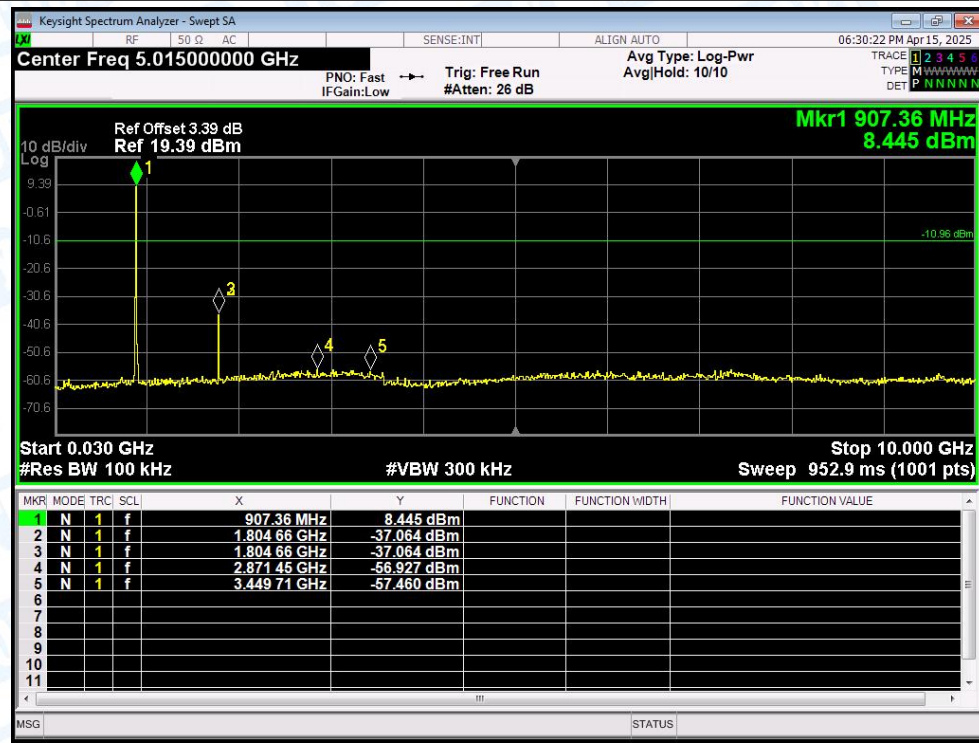
Tx. Spurious NVNT 8M 924MHz Ant1 Emission



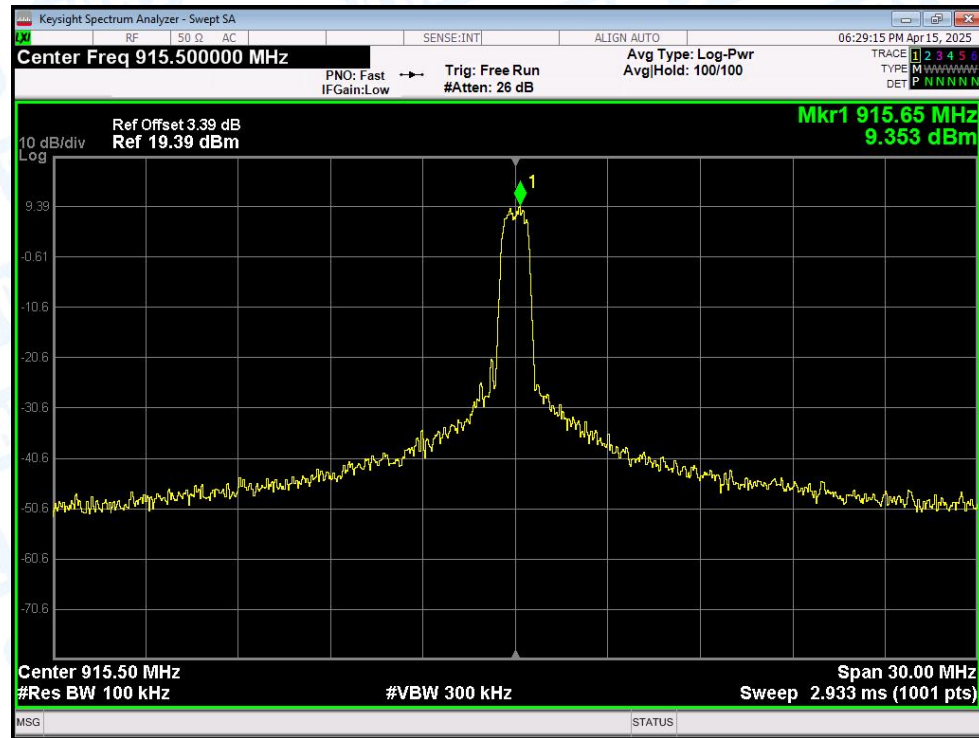
Tx. Spurious NVNT 1M 903.5MHz Ant1 Ref



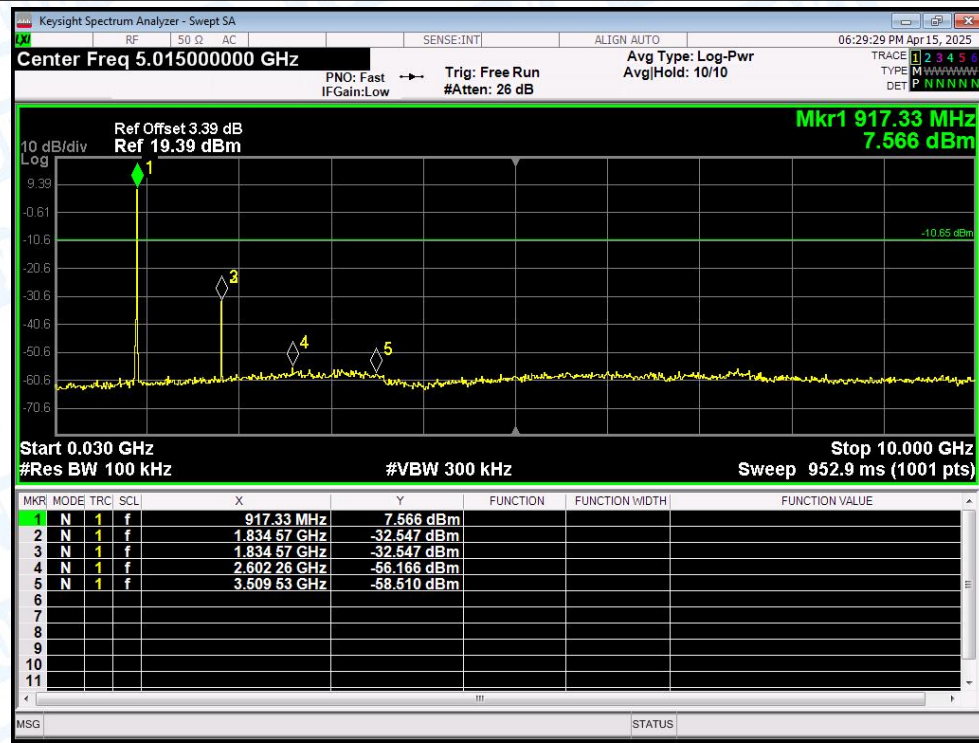
Tx. Spurious NVNT 1M 903.5MHz Ant1 Emission



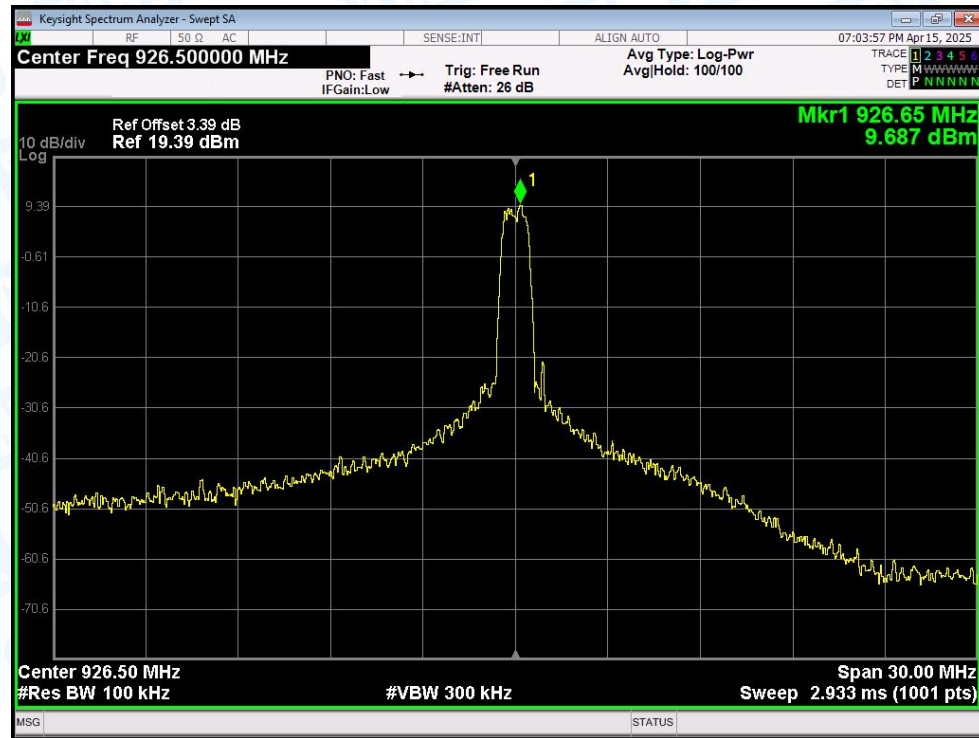
Tx. Spurious NVNT 1M 915.5MHz Ant1 Ref



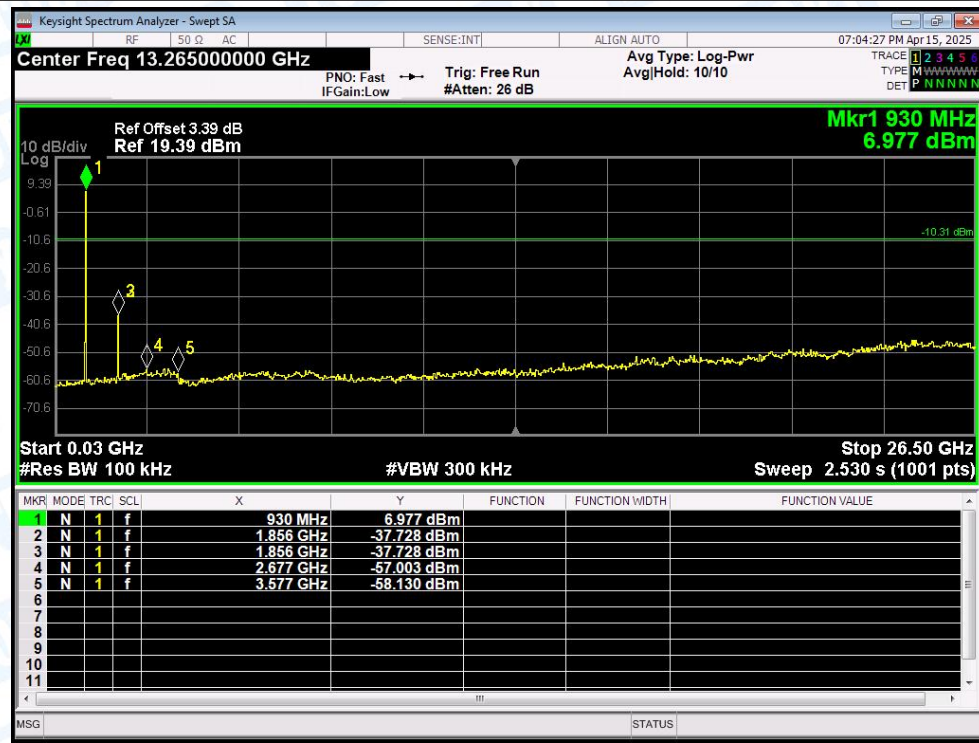
Tx. Spurious NVNT 1M 915.5MHz Ant1 Emission



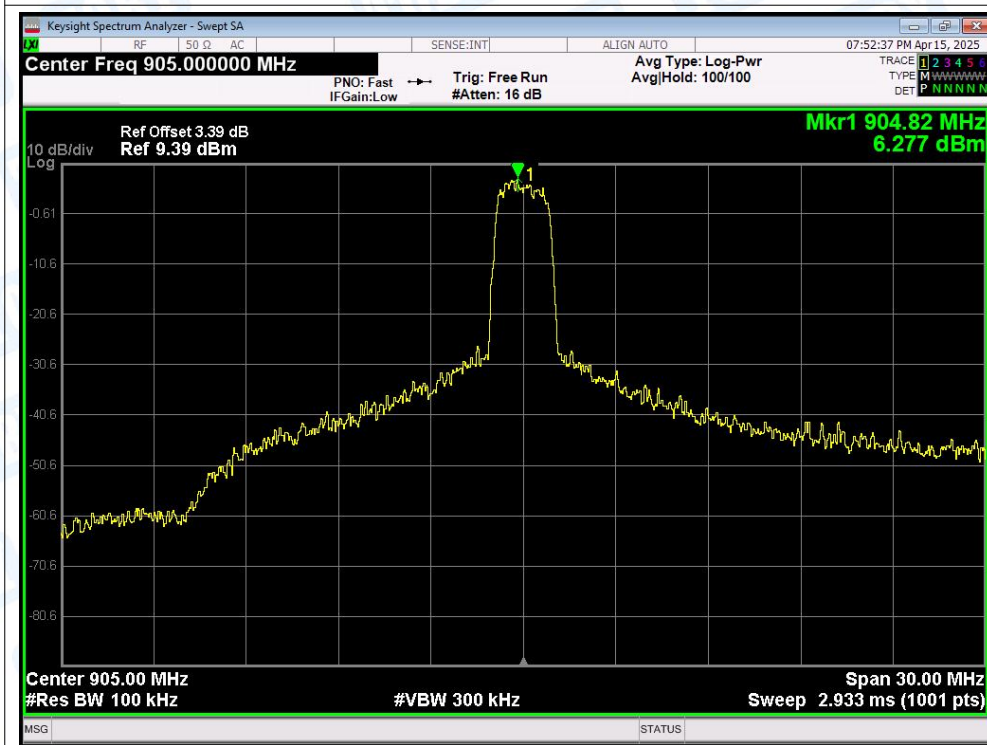
Tx. Spurious NVNT 1M 926.5MHz Ant1 Ref



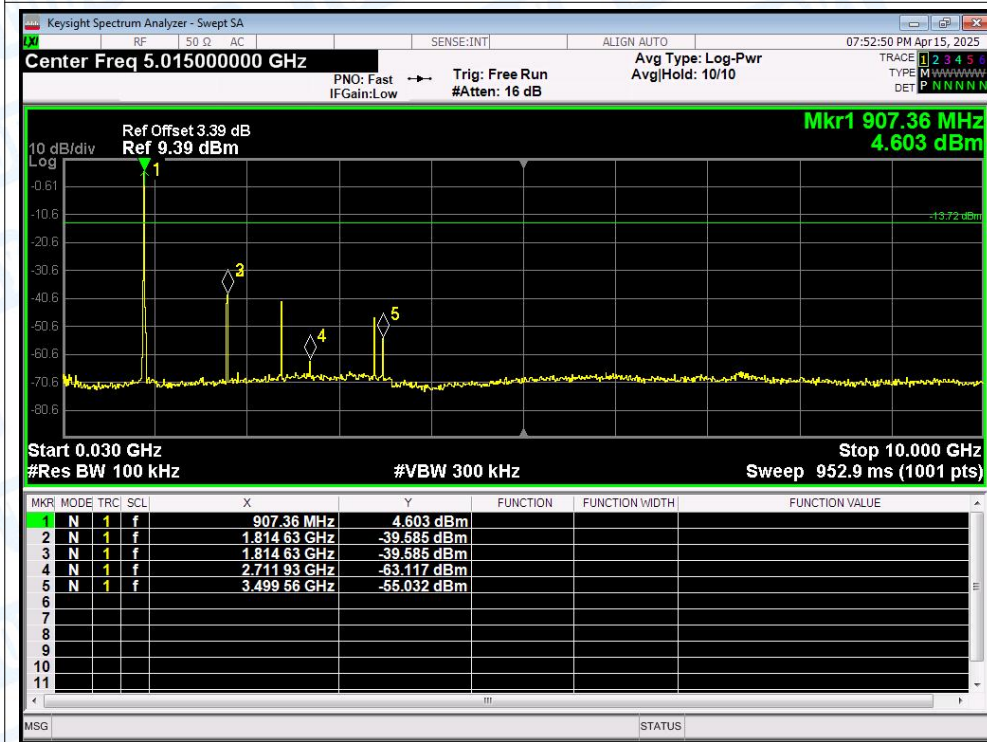
Tx. Spurious NVNT 1M 926.5MHz Ant1 Emission



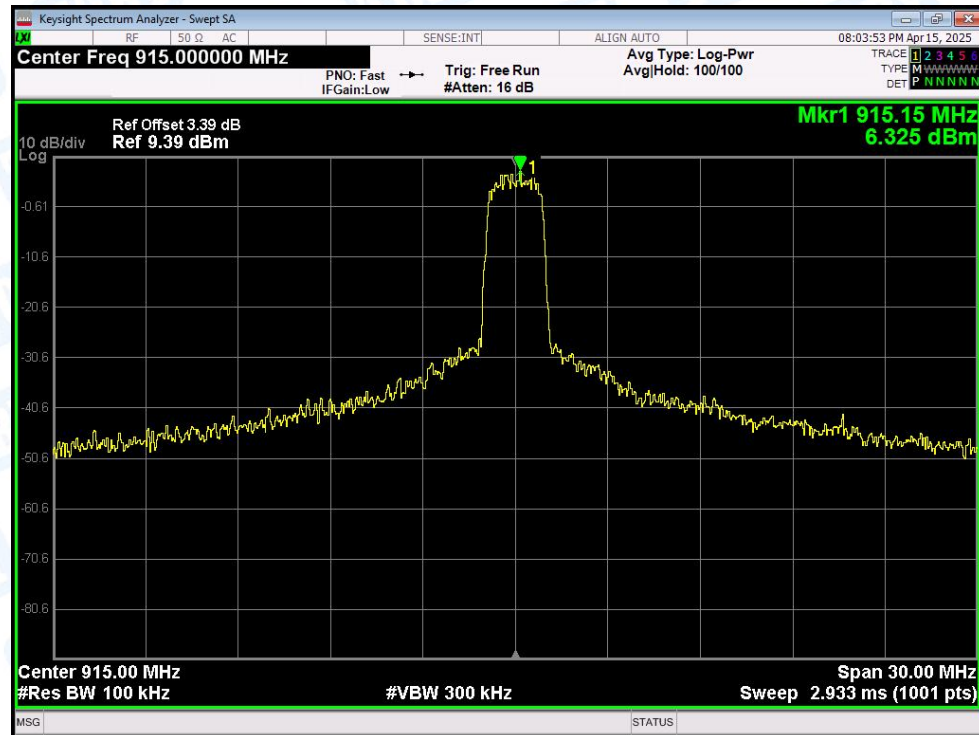
Tx. Spurious NVNT 2M 905MHz Ant1 Ref



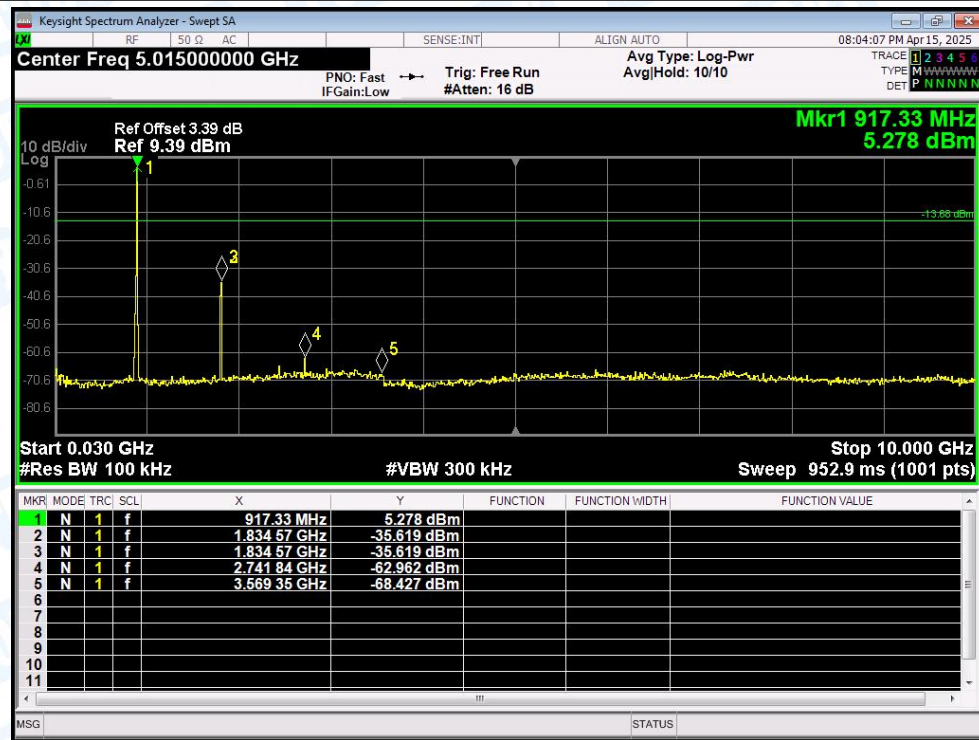
Tx. Spurious NVNT 2M 905MHz Ant1 Emission



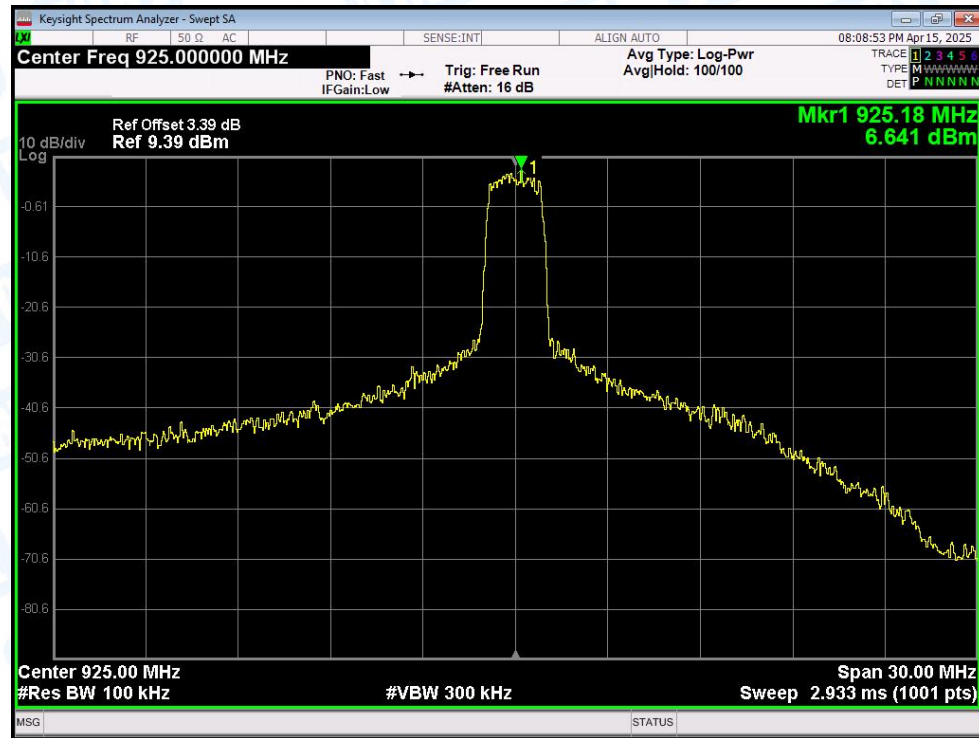
Tx. Spurious NVNT 2M 915MHz Ant1 Ref



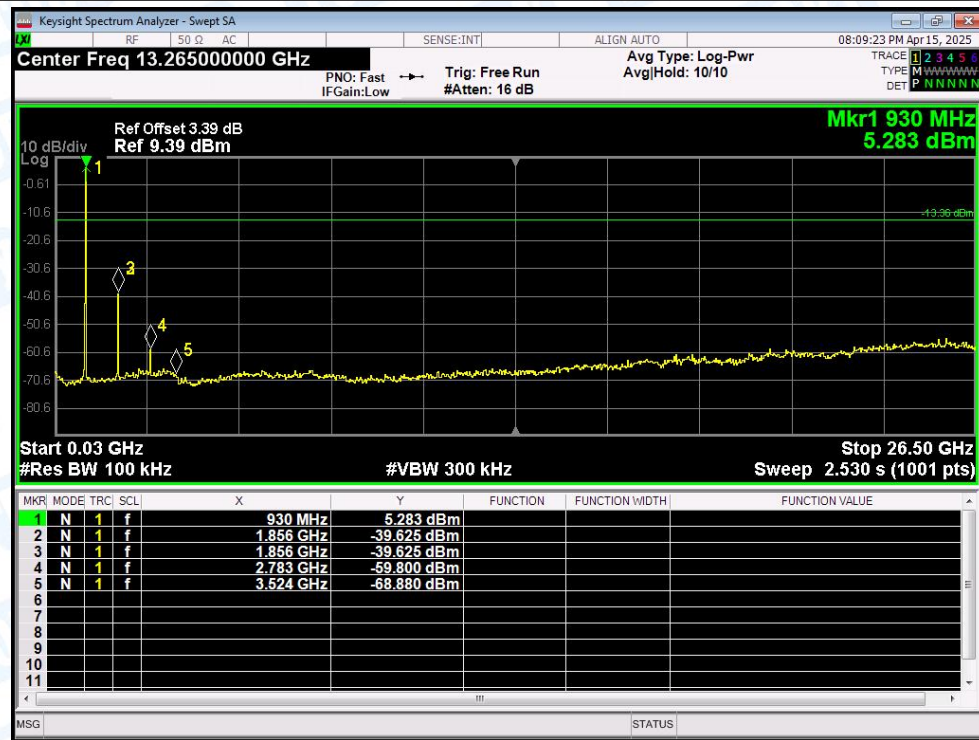
Tx. Spurious NVNT 2M 915MHz Ant1 Emission



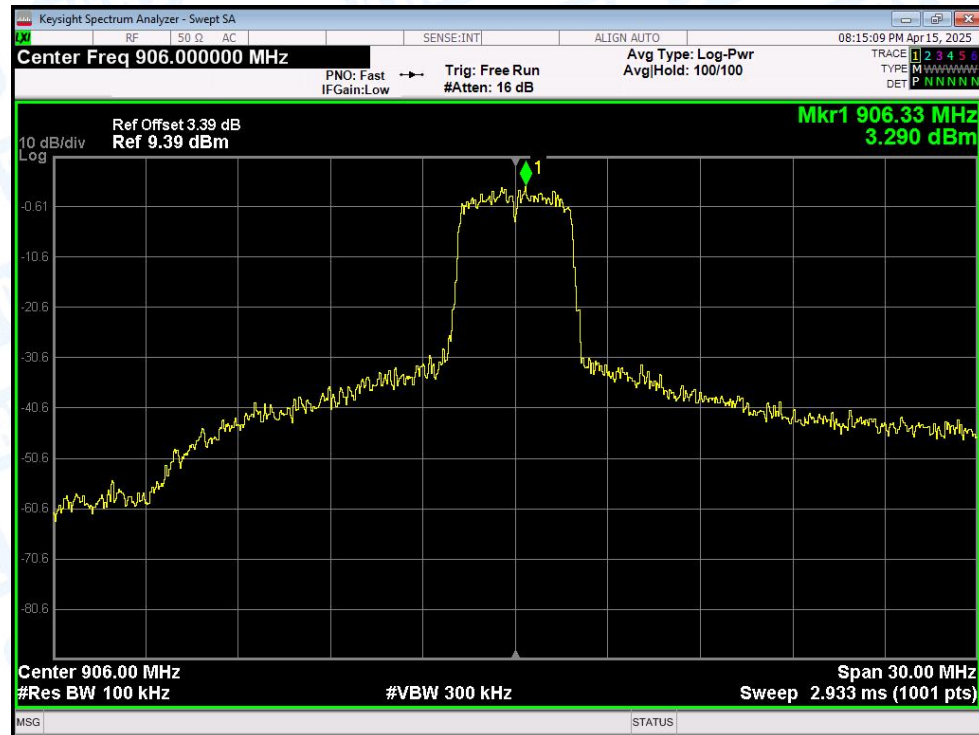
Tx. Spurious NVNT 2M 925MHz Ant1 Ref



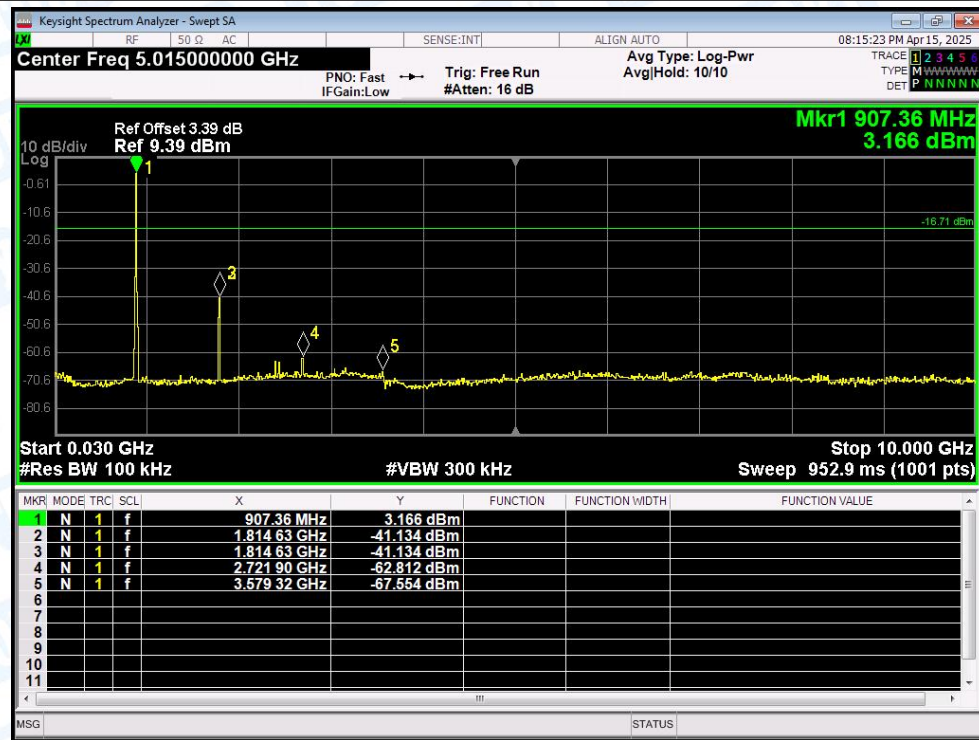
Tx. Spurious NVNT 2M 925MHz Ant1 Emission



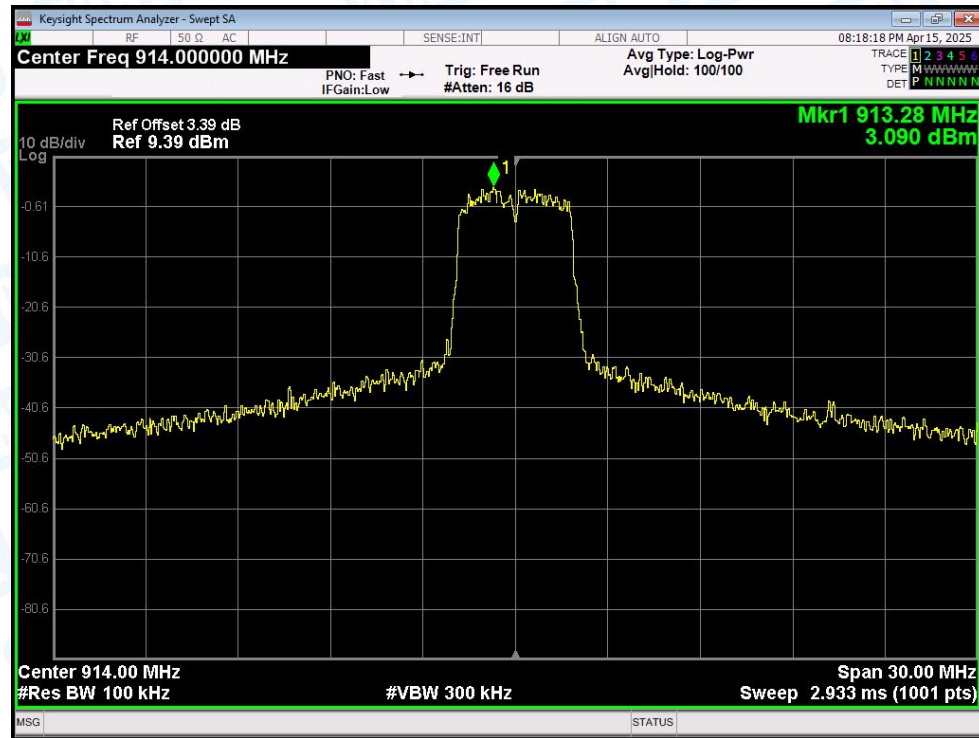
Tx. Spurious NVNT 4M 906MHz Ant1 Ref



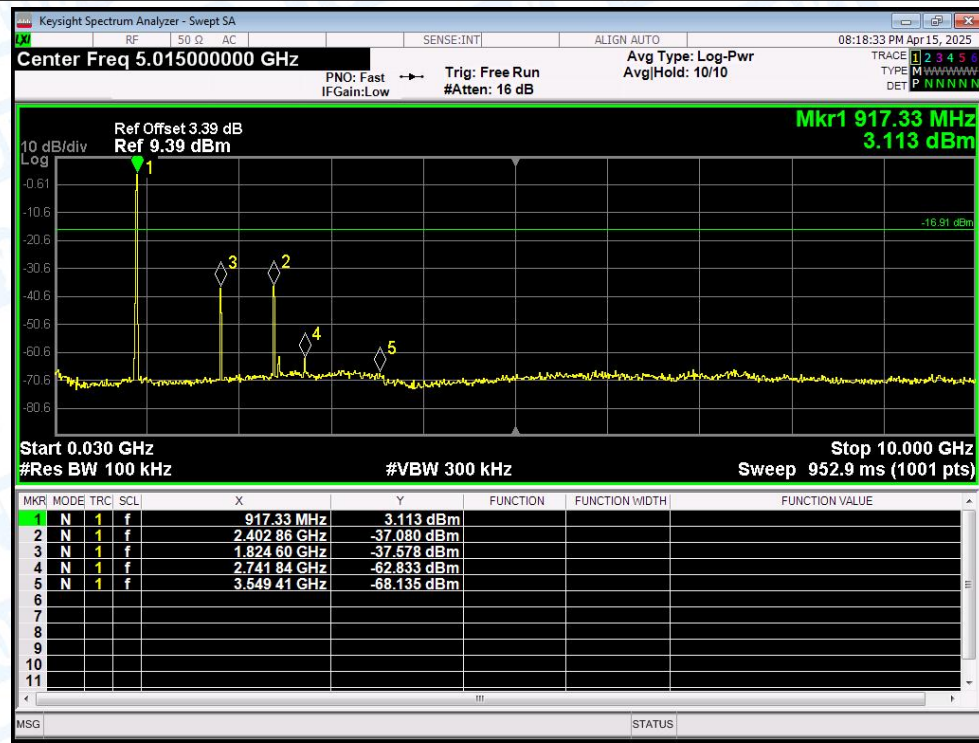
Tx. Spurious NVNT 4M 906MHz Ant1 Emission



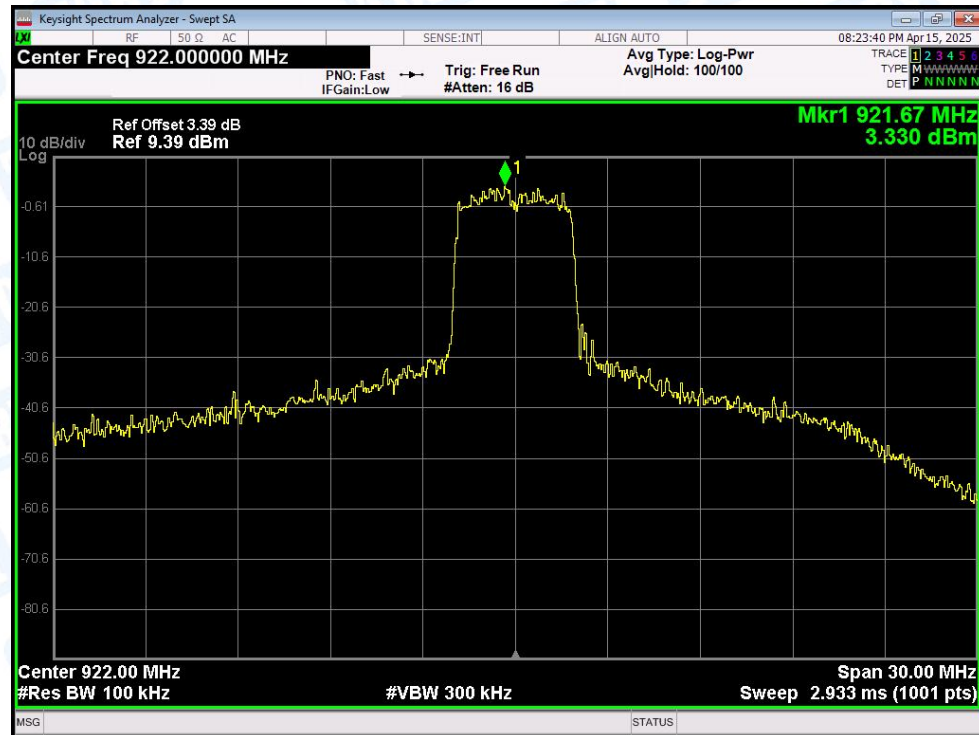
Tx. Spurious NVNT 4M 914MHz Ant1 Ref



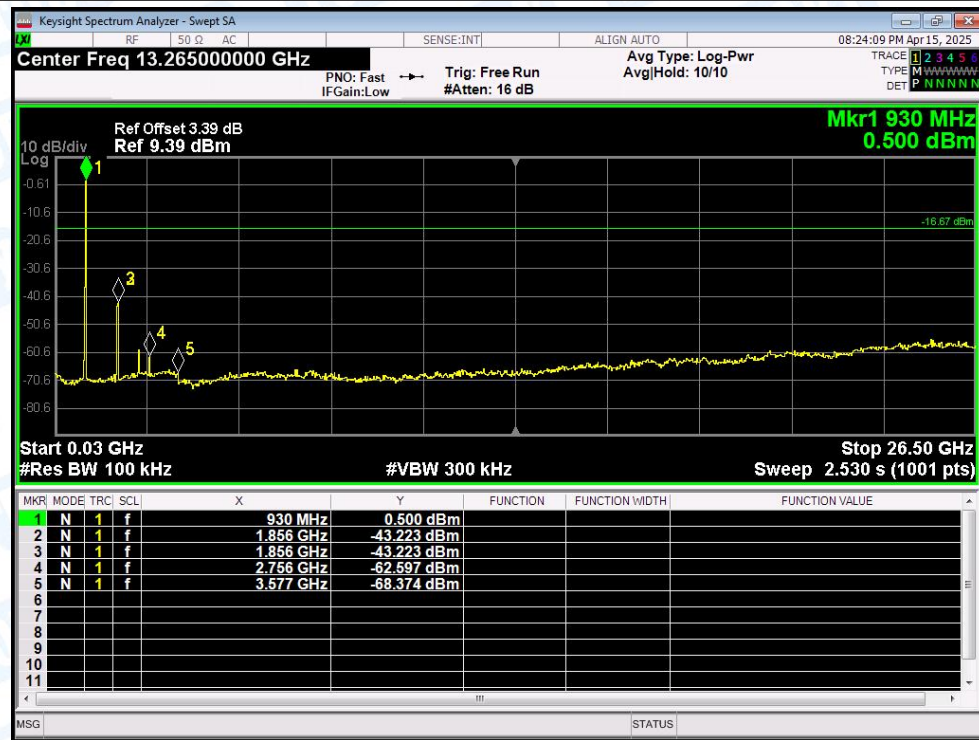
Tx. Spurious NVNT 4M 914MHz Ant1 Emission



Tx. Spurious NVNT 4M 922MHz Ant1 Ref



Tx. Spurious NVNT4M 922MHz Ant1 Emission



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