

Appendix: LoRa FHSS

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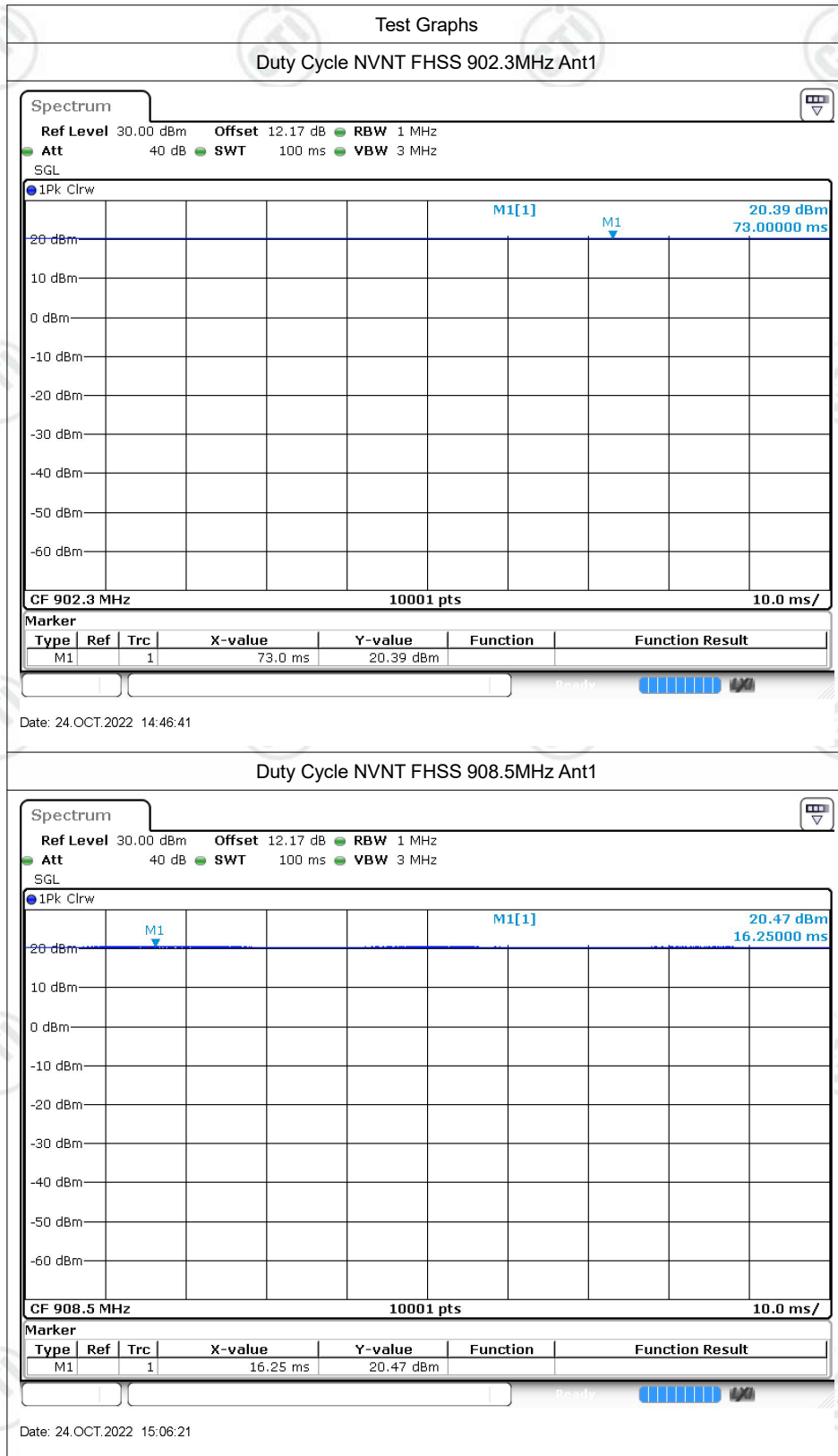
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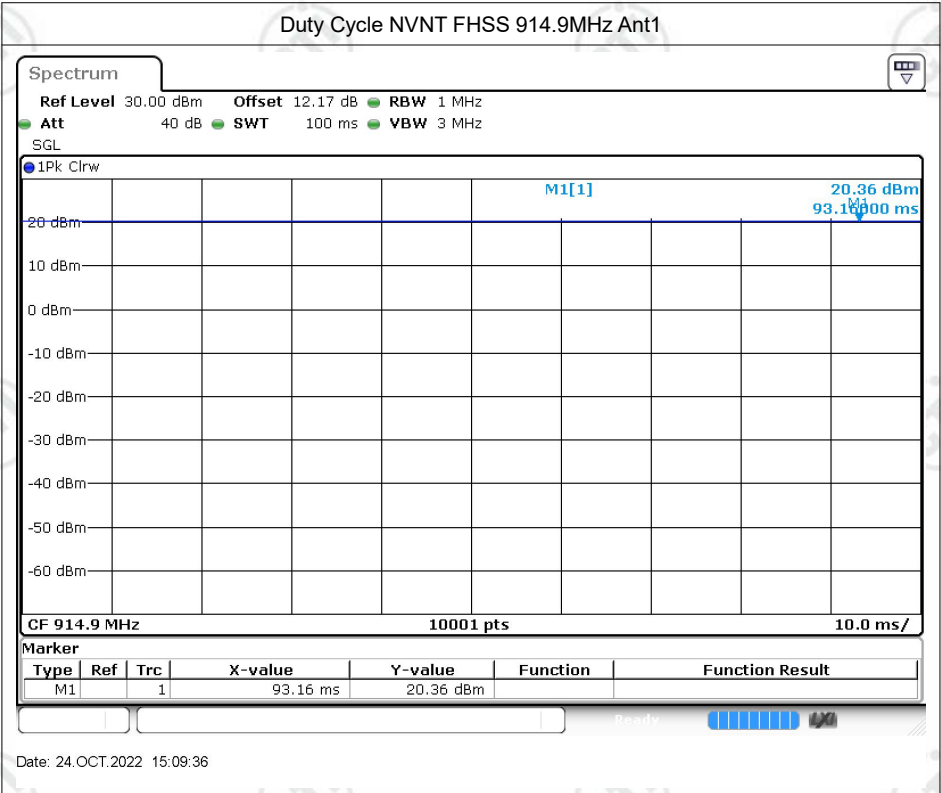
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Duty Cycle

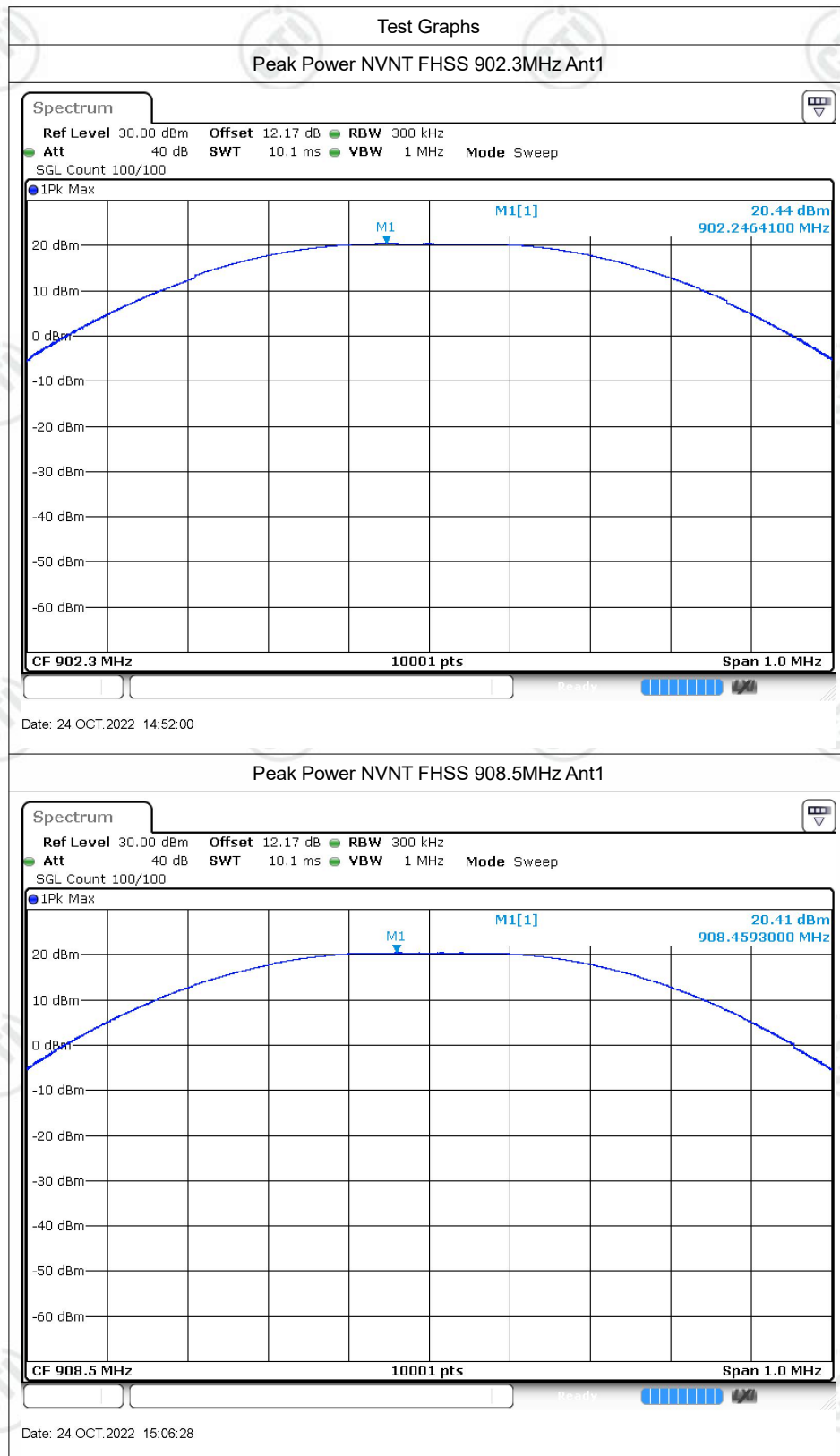
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	FHSS	902.3	Ant1	100	0	0
NVNT	FHSS	908.5	Ant1	100	0	0
NVNT	FHSS	914.9	Ant1	100	0	0

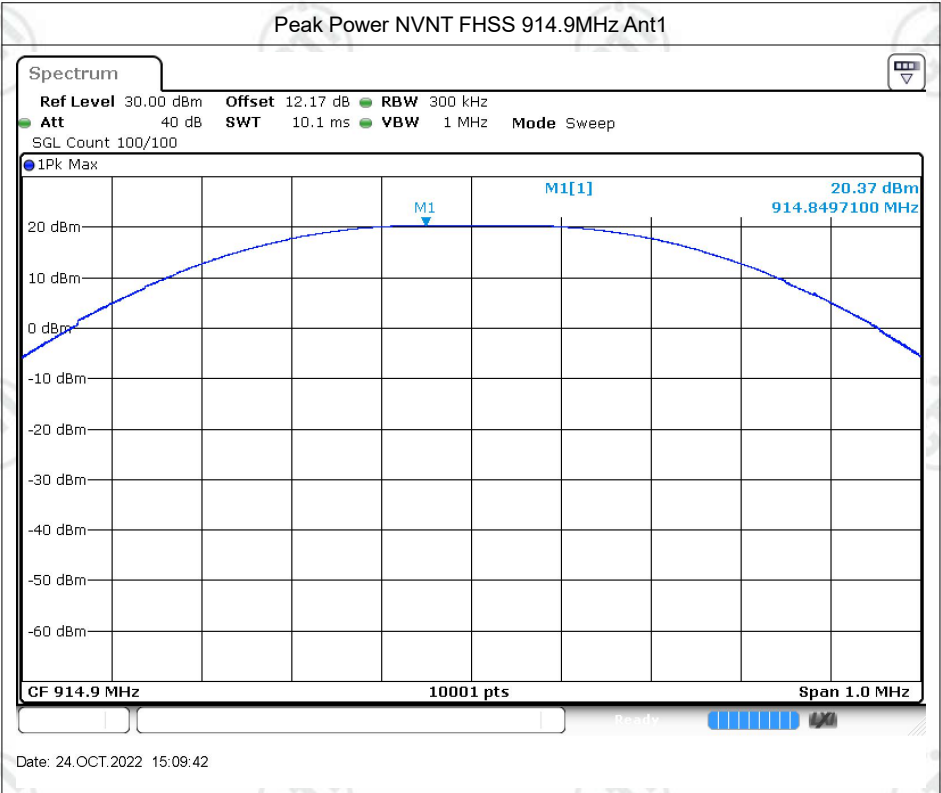




Maximum Peak Conducted Output Power

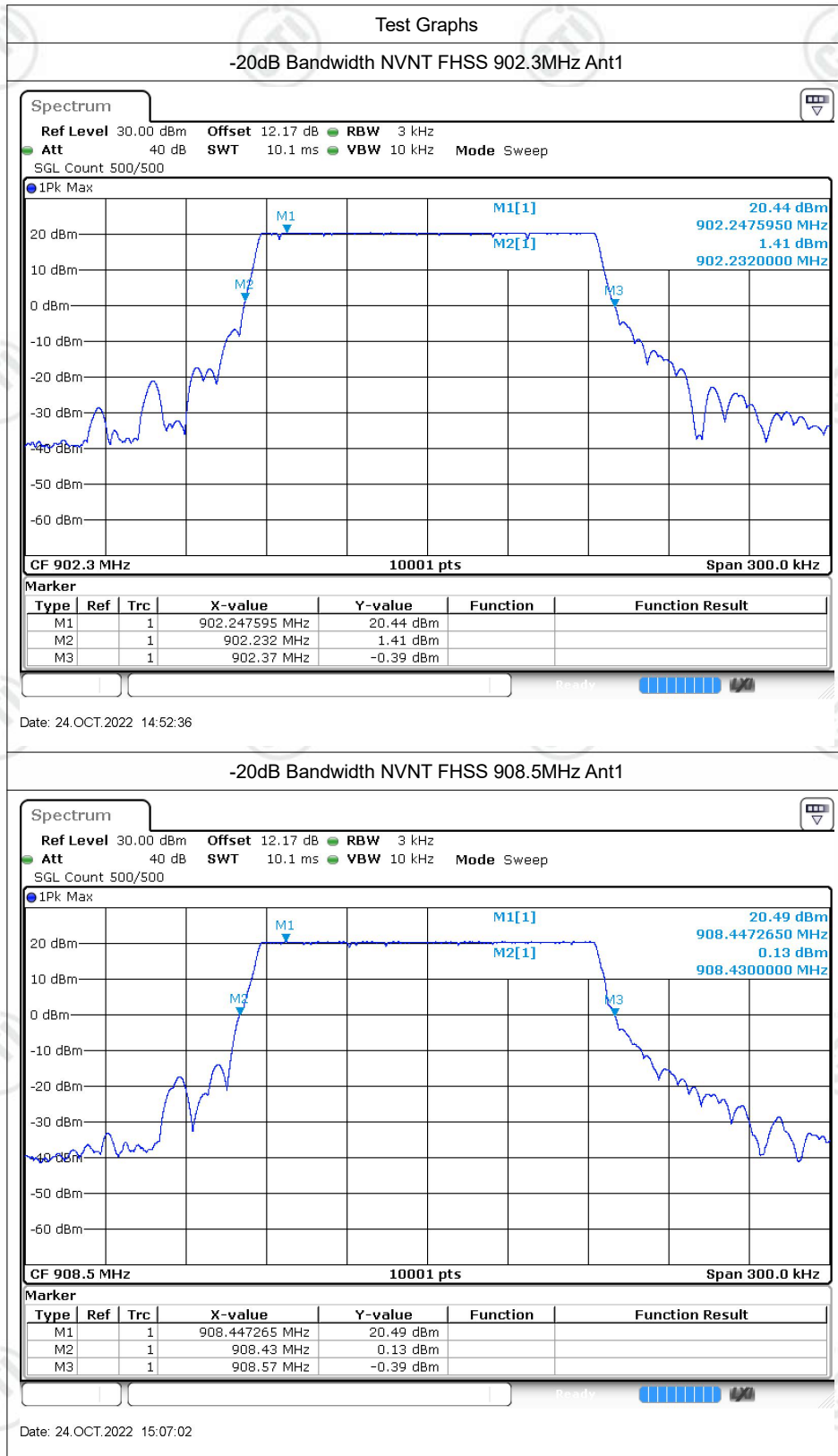
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	FHSS	902.3	Ant1	20.44	0	20.44	30	Pass
NVNT	FHSS	908.5	Ant1	20.41	0	20.41	30	Pass
NVNT	FHSS	914.9	Ant1	20.37	0	20.37	30	Pass

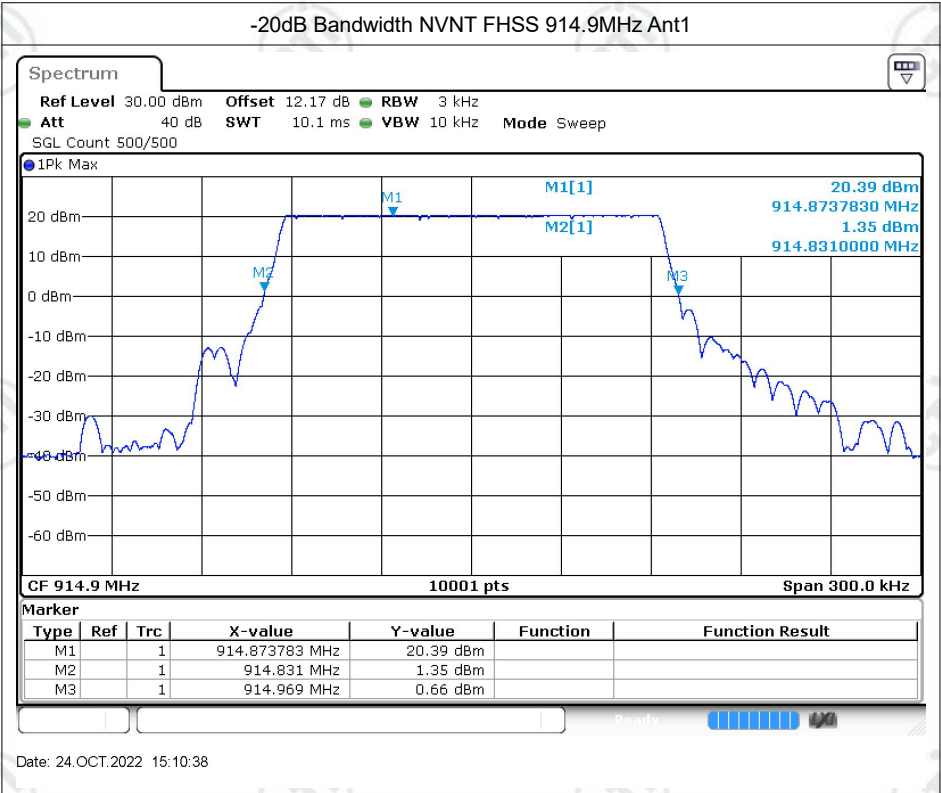




-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	FHSS	902.3	Ant1	0.138	---	Pass
NVNT	FHSS	908.5	Ant1	0.139	---	Pass
NVNT	FHSS	914.9	Ant1	0.138	---	Pass

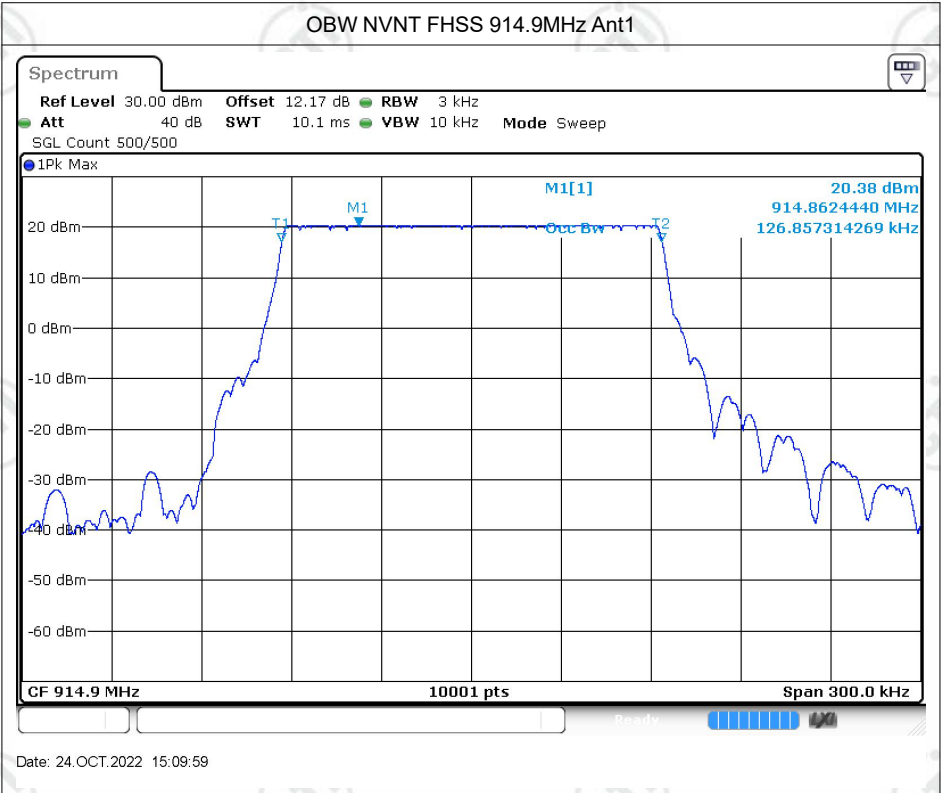




Occupied Channel Bandwidth

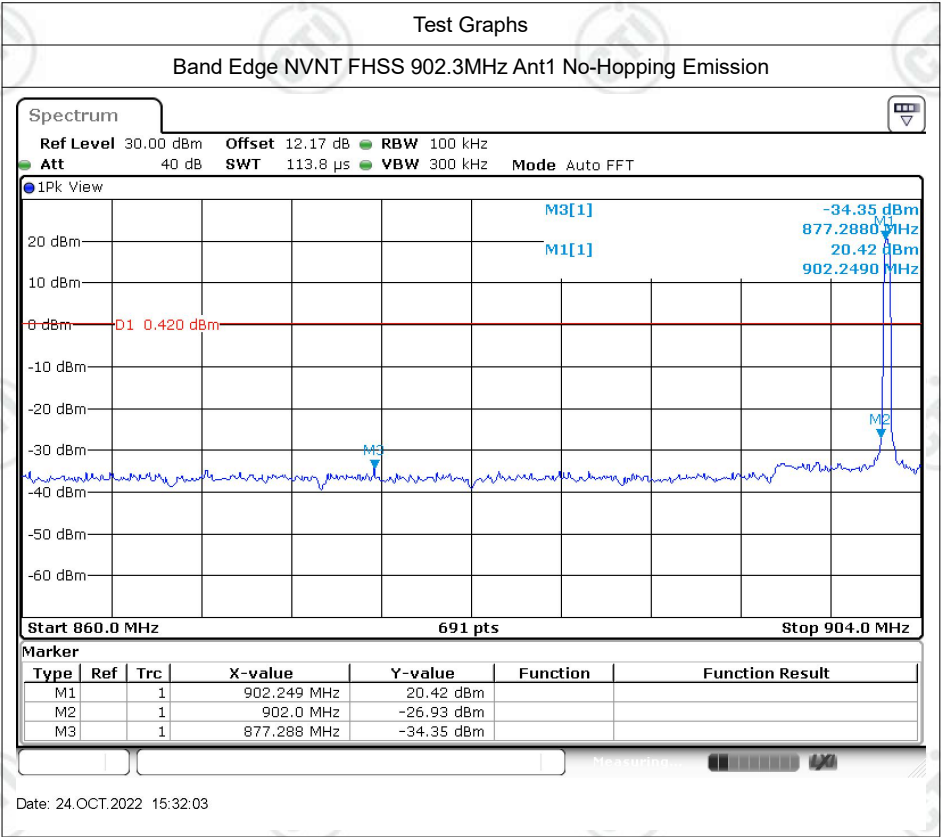
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	FHSS	902.3	Ant1	0.127
NVNT	FHSS	908.5	Ant1	0.126
NVNT	FHSS	914.9	Ant1	0.127

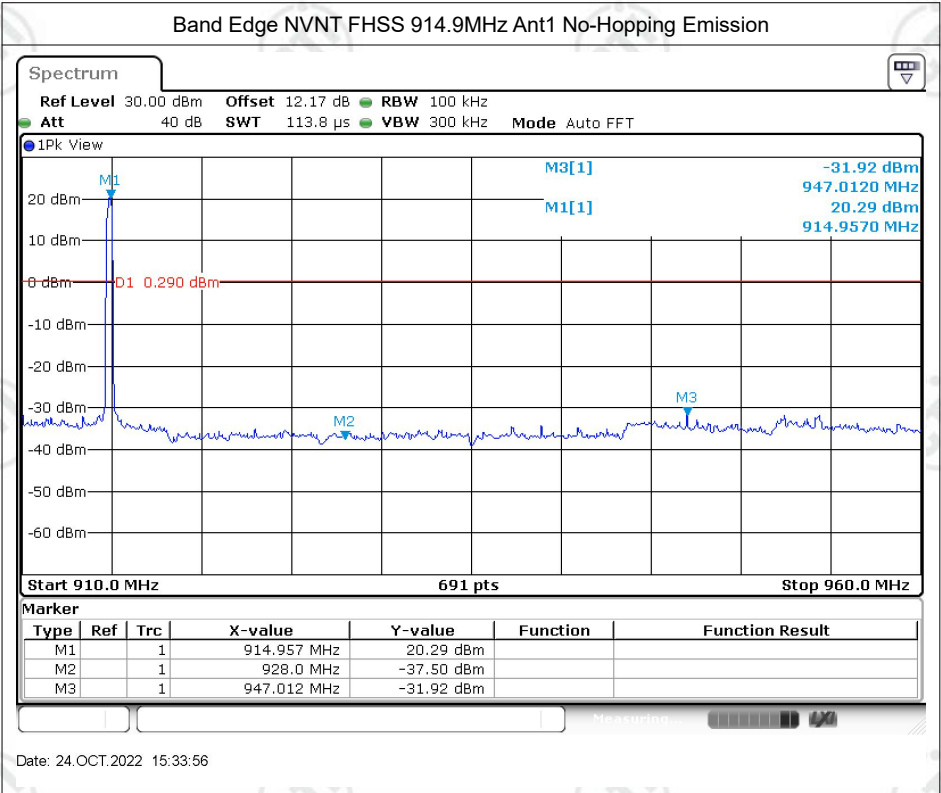




Band Edge

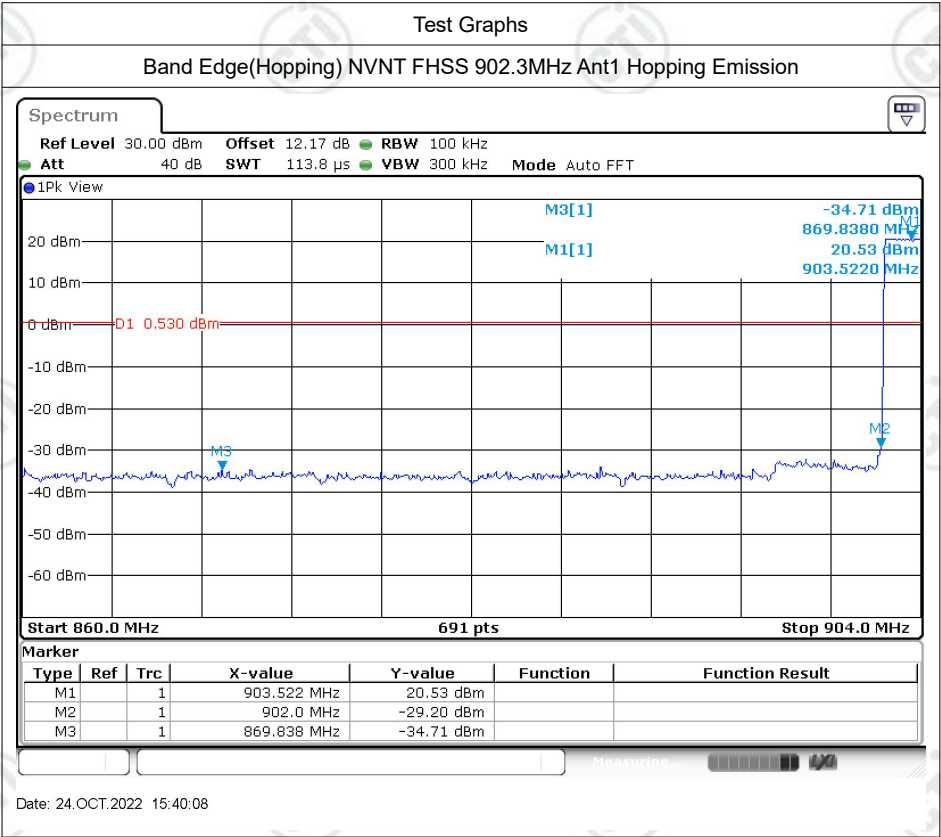
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	FHSS	902.3	Ant1	No-Hopping	-26.93	0.42	Pass
NVNT	FHSS	914.9	Ant1	No-Hopping	-37.50	0.29	Pass

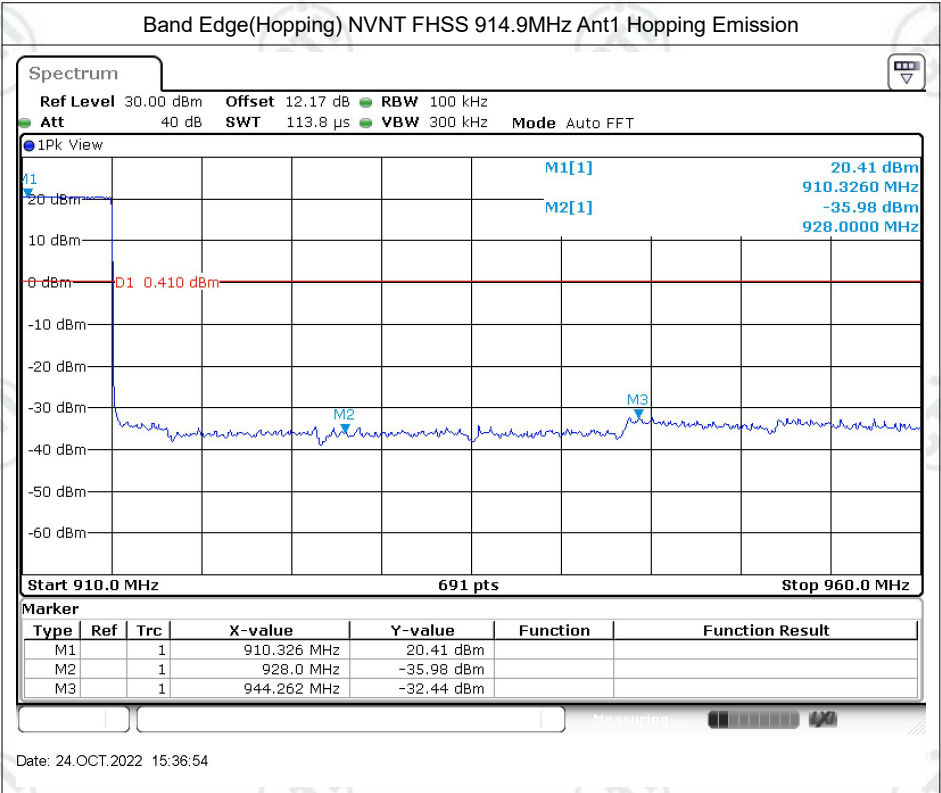




Band Edge(Hopping)

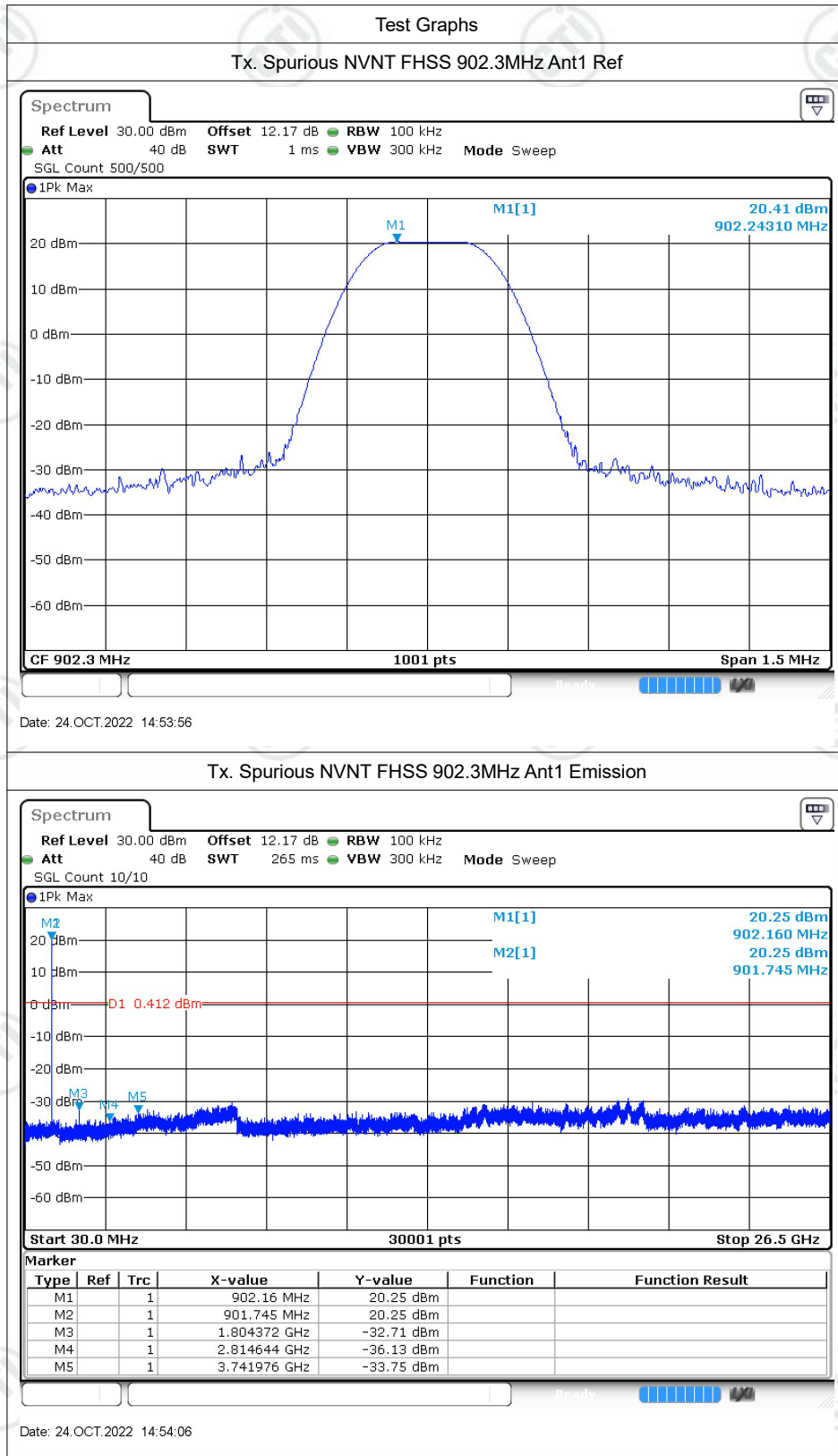
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	FHSS	902.3	Ant1	Hopping	-29.2	0.53	Pass
NVNT	FHSS	914.9	Ant1	Hopping	-35.98	0.41	Pass

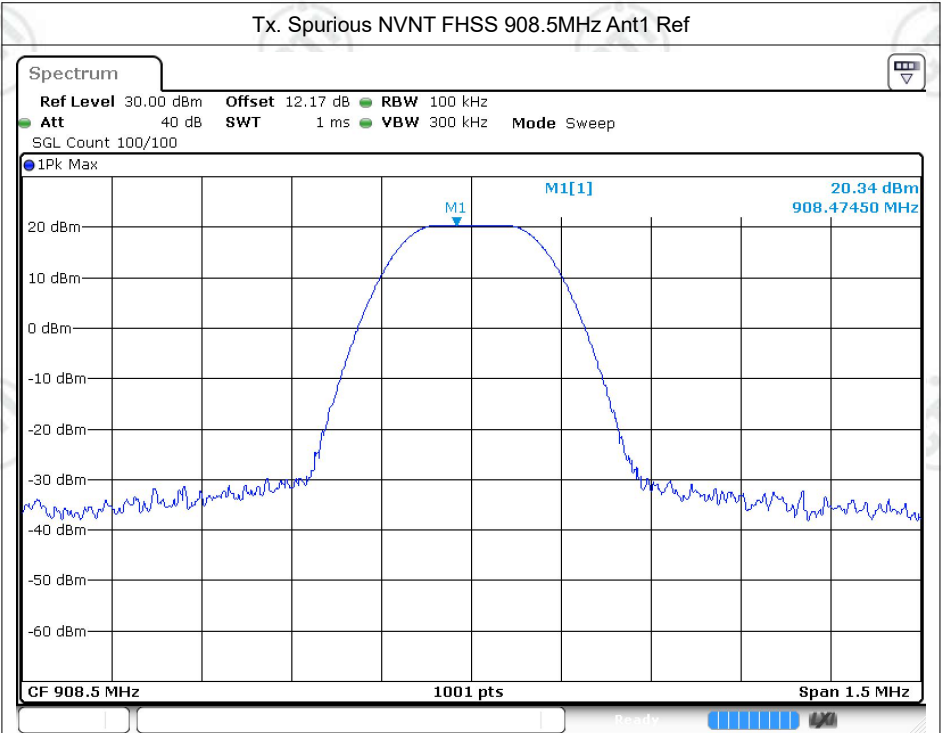




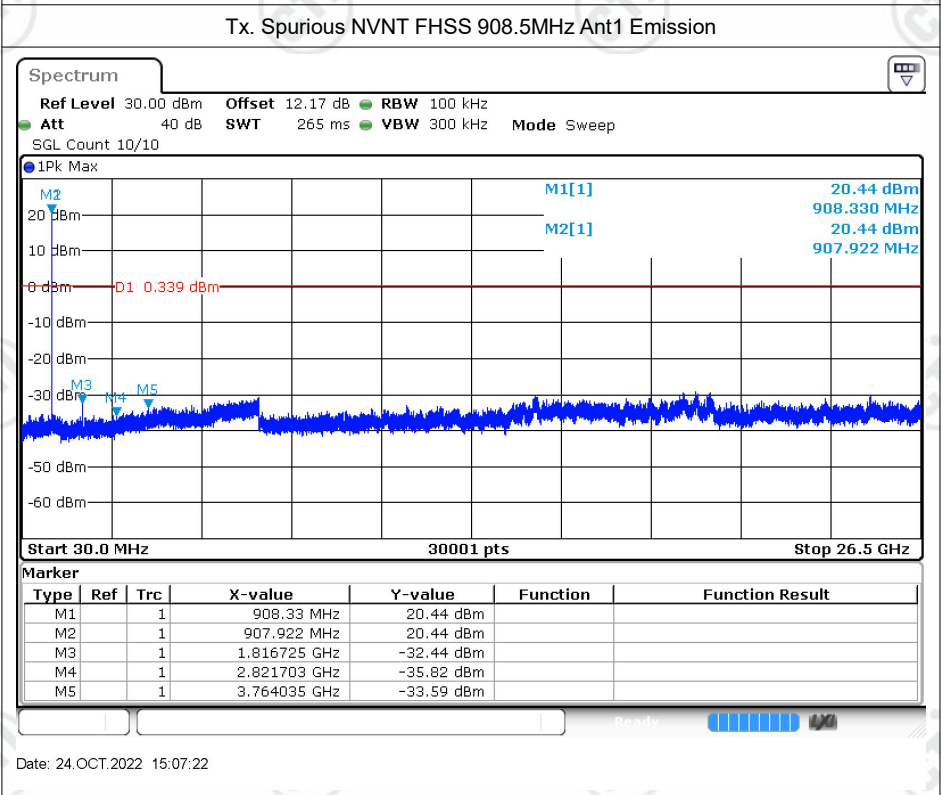
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Limit (dBc)	Verdict
NVNT	FHSS	902.3	Ant1	0.412	Pass
NVNT	FHSS	908.5	Ant1	0.339	Pass
NVNT	FHSS	914.9	Ant1	0.299	Pass

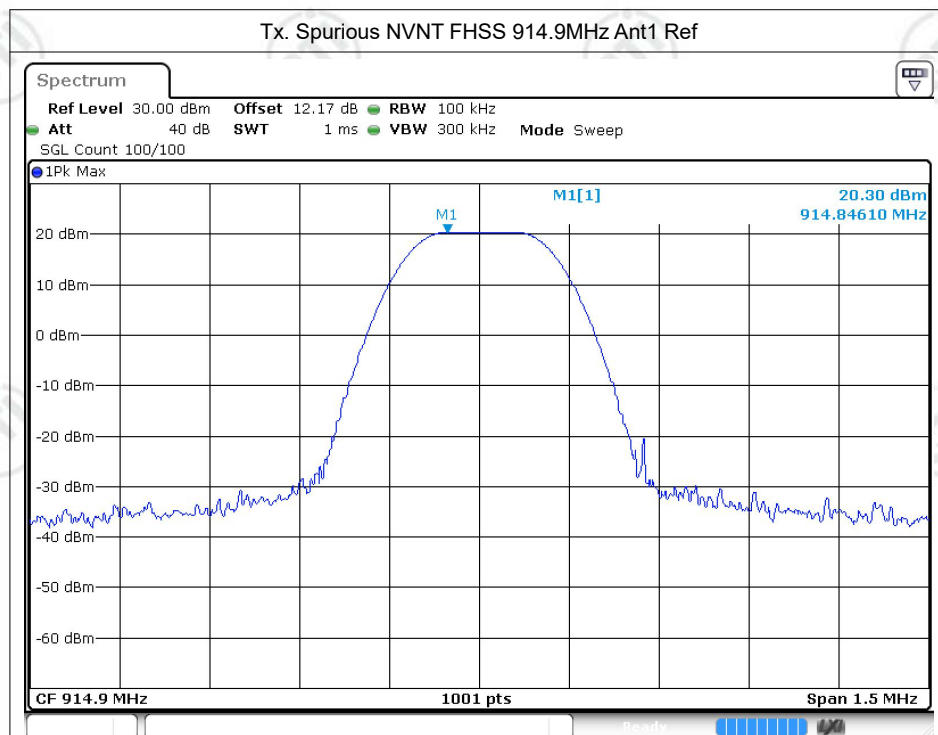




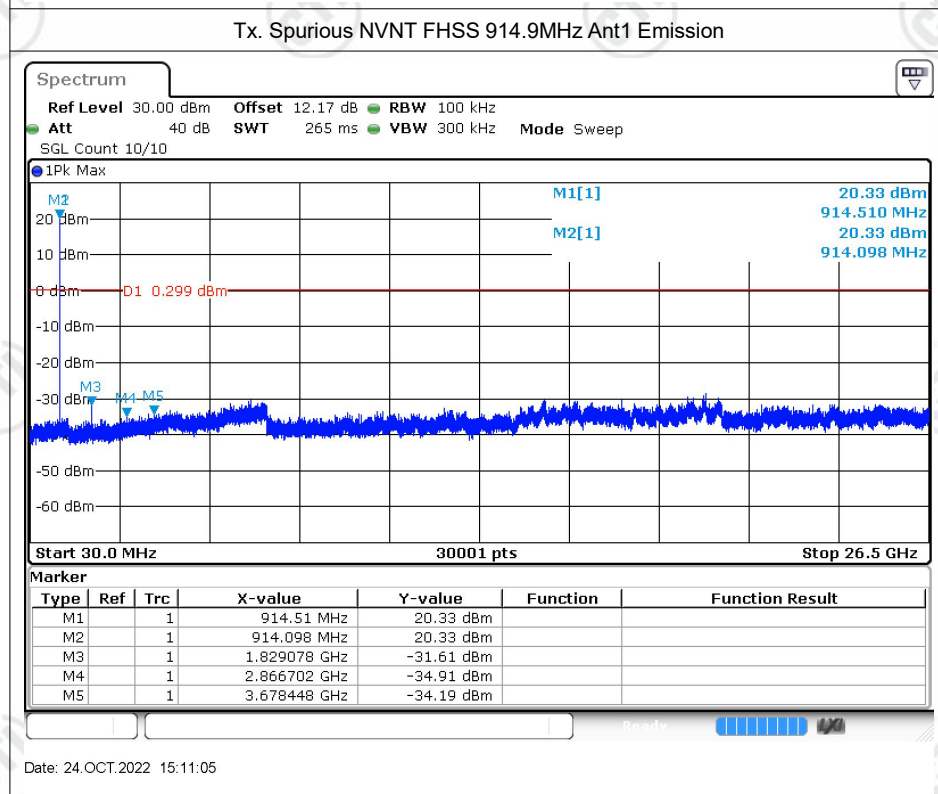
Date: 24.OCT.2022 15:07:11



Date: 24.OCT.2022 15:07:22



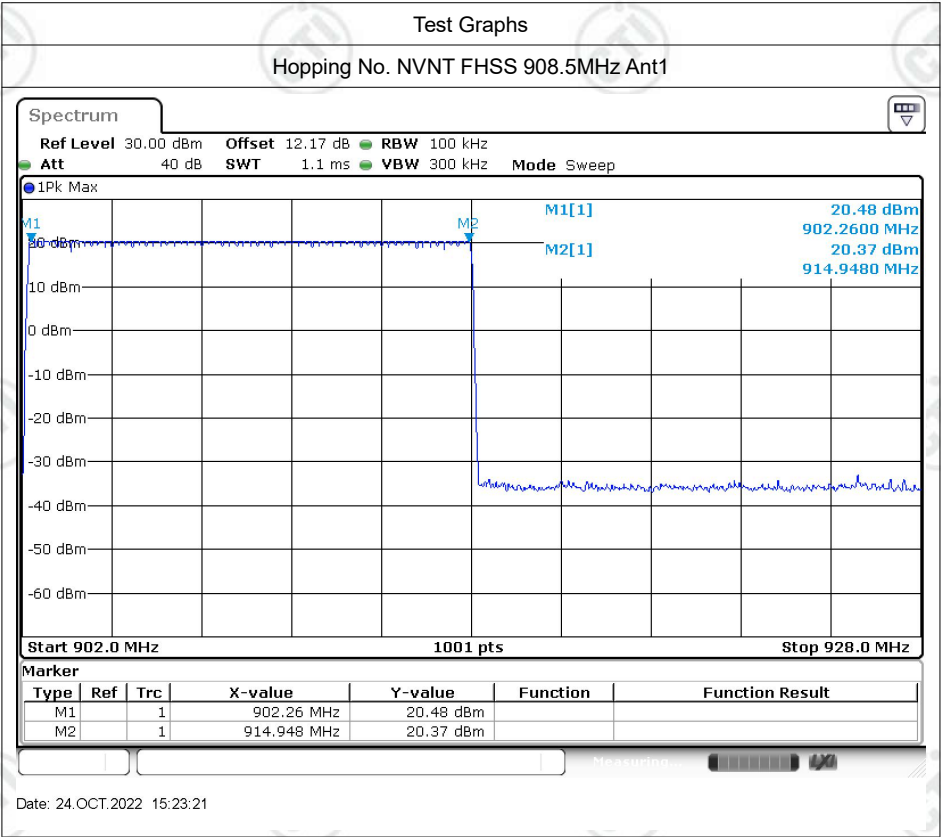
Date: 24.OCT.2022 15:10:55



Date: 24.OCT.2022 15:11:05

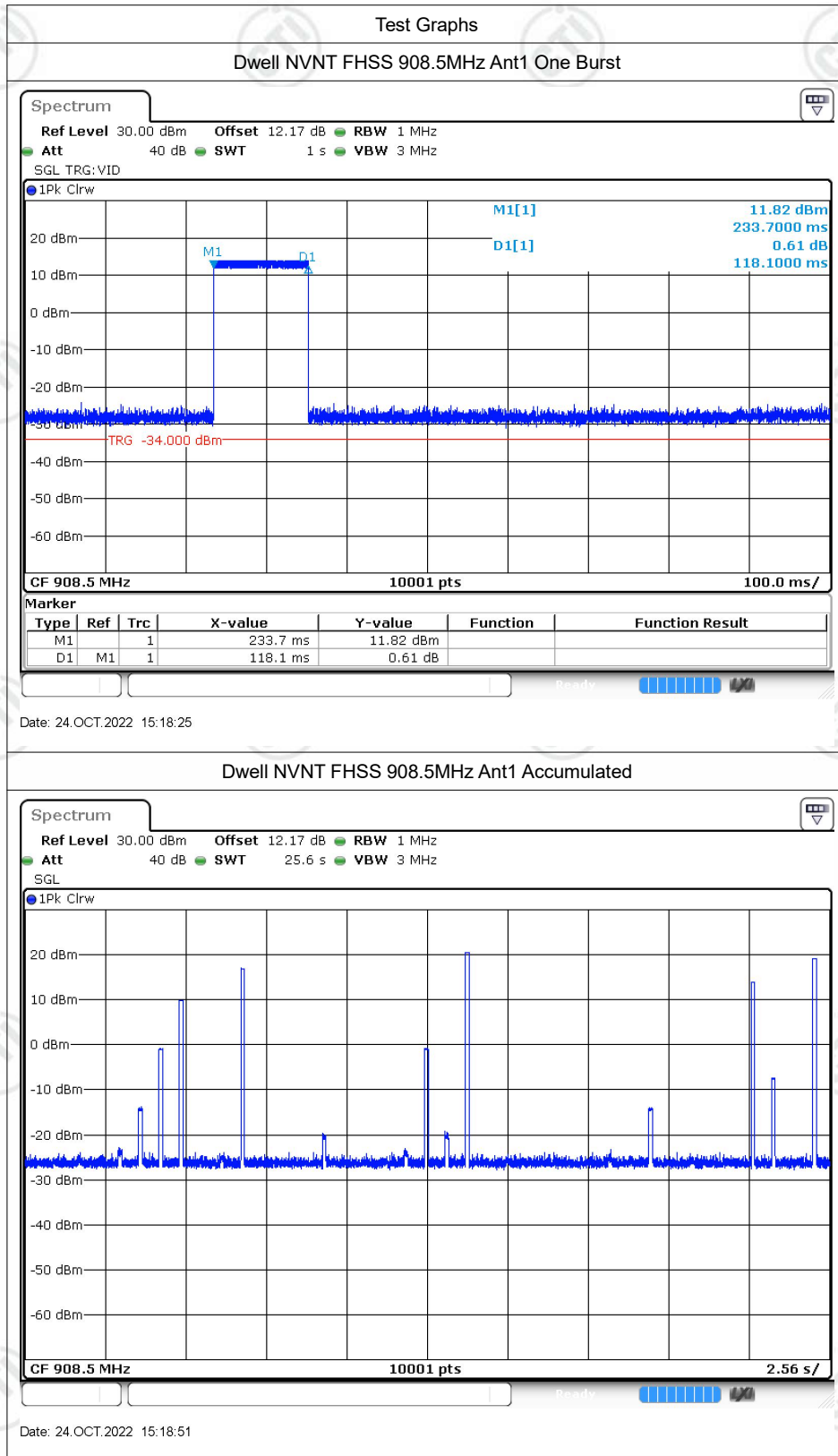
Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	FHSS	Ant1	64	15	Pass



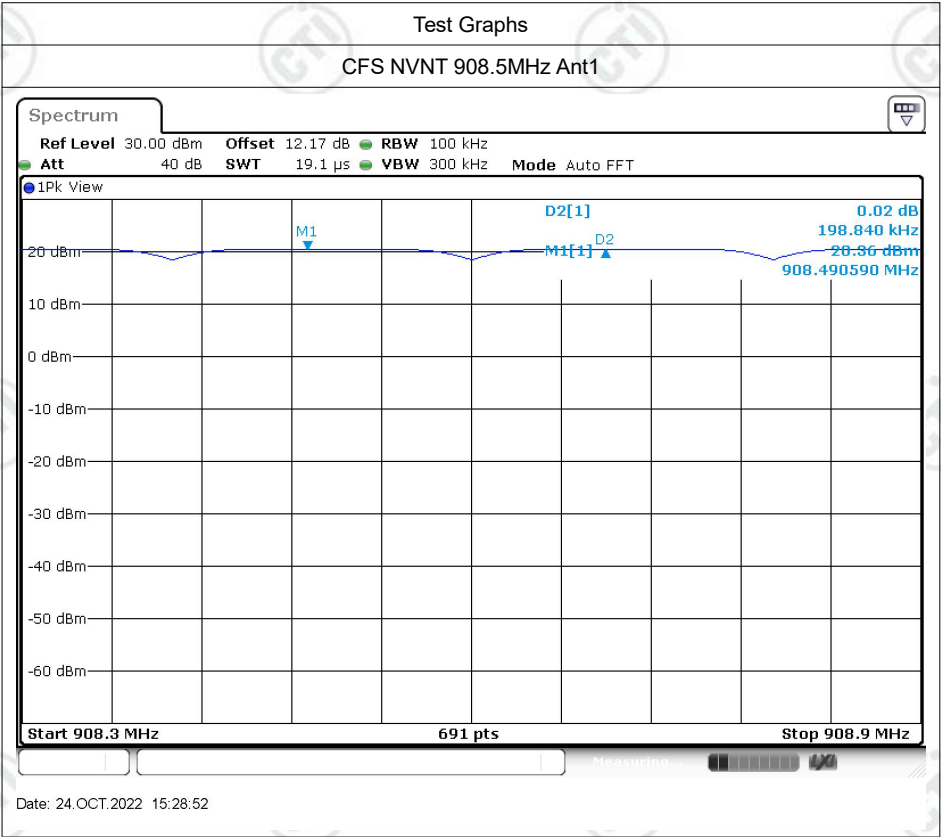
Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	FHSS	908.5	Ant1	118.1	354.3	3	25600	400	Pass



Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	FHSS	Ant1	908.490	908.688	0.198	0.092	Pass



*** End of Report ***