

Maximum Conducted Output Power

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Gain [dBi]	EIRP [dBm]	Limit (dBm)	Verdict
GFSK	2402	Ant2	5.98	≤30	0.68	6.66	≤36	Pass
	2441	Ant2	5.33	≤30	0.68	6.01	≤36	Pass
	2480	Ant2	4.96	≤30	0.68	5.64	≤36	Pass
$\pi/4$ -DQPSK	2402	Ant2	7.80	≤30	0.68	8.48	≤36	Pass
	2441	Ant2	7.31	≤30	0.68	7.99	≤36	Pass
	2480	Ant2	7.04	≤30	0.68	7.72	≤36	Pass
8DPSK	2402	Ant2	8.27	≤30	0.68	8.95	≤36	Pass
	2441	Ant2	7.83	≤30	0.68	8.51	≤36	Pass
	2480	Ant2	7.50	≤30	0.68	8.18	≤36	Pass



GFSK_Ant2_2402



GFSK_Ant2_2441



GFSK_Ant2_2480



$\pi/4$ -DQPSK_Ant2_2402



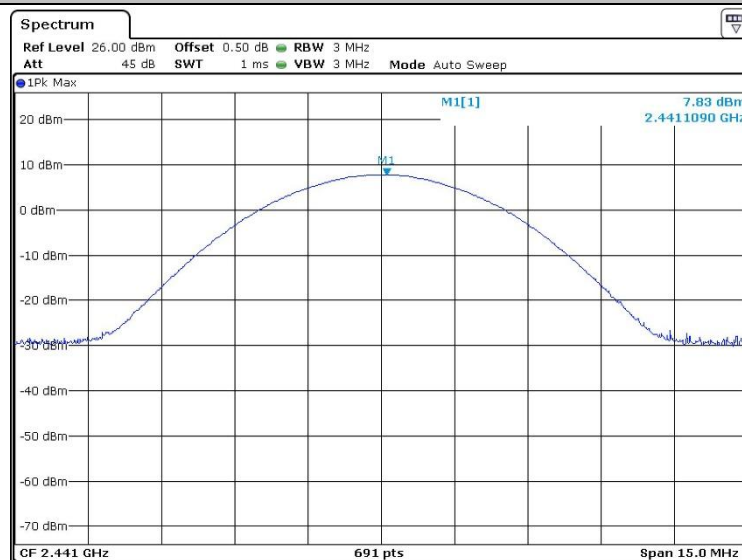
$\pi/4$ -DQPSK_Ant2_2441



$\pi/4$ -DQPSK_Ant2_2480



8DPSK_Ant2_2402



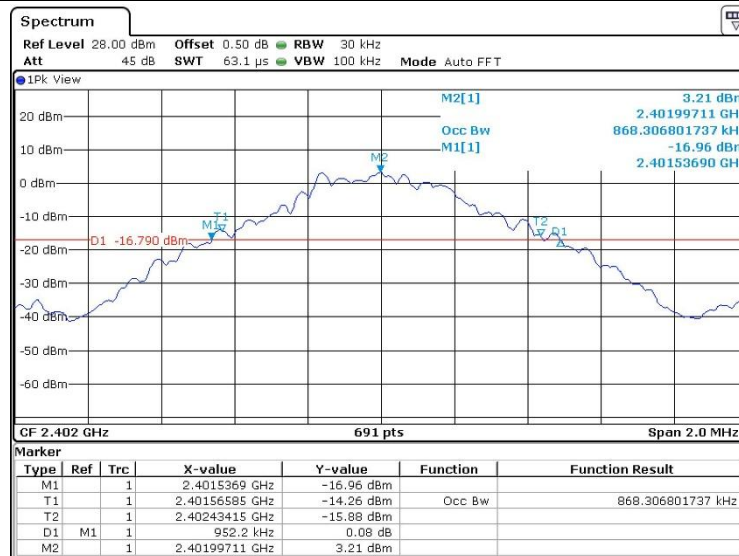
8DPSK_Ant2_2441



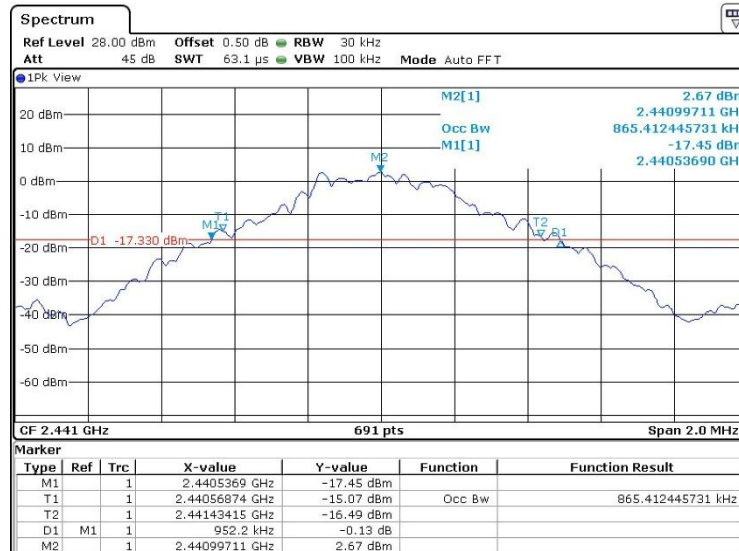
8DPSK_Ant2_2480

20dB Emission Bandwidth

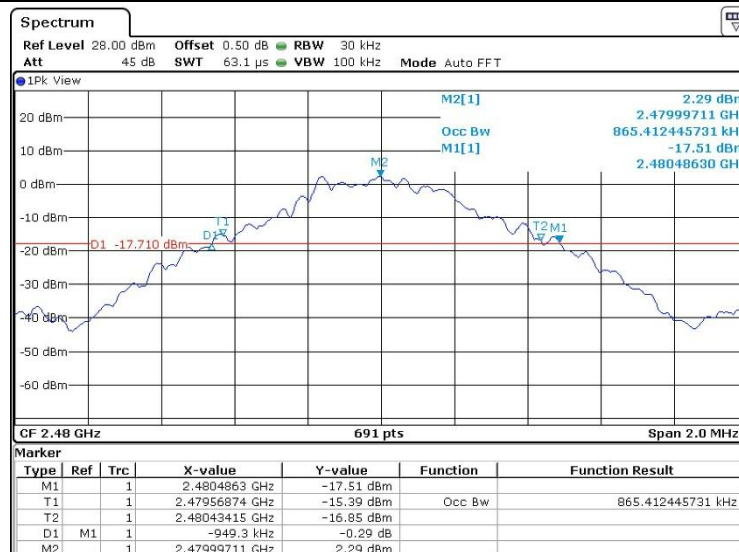
Mode	Antenna	Frequency (MHz)	20db EBW[MHz]	FL[MHz]	FH[MHz]
GFSK	Ant2	2402	0.952	2401.537	2402.489
		2441	0.952	2440.537	2441.489
		2480	0.949	2479.537	2480.486
$\pi/4$ -DQPSK	Ant2	2402	1.281	2401.375	2402.656
		2441	1.281	2440.375	2441.656
		2480	1.276	2479.375	2480.651
8DPSK	Ant2	2402	1.285	2401.362	2402.647
		2441	1.276	2440.362	2441.638
		2480	1.281	2479.357	2480.638



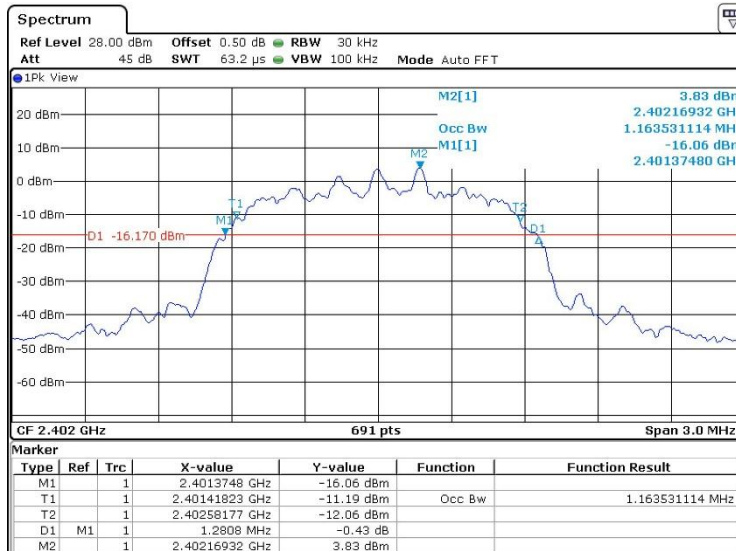
GFSK_Ant2_2402



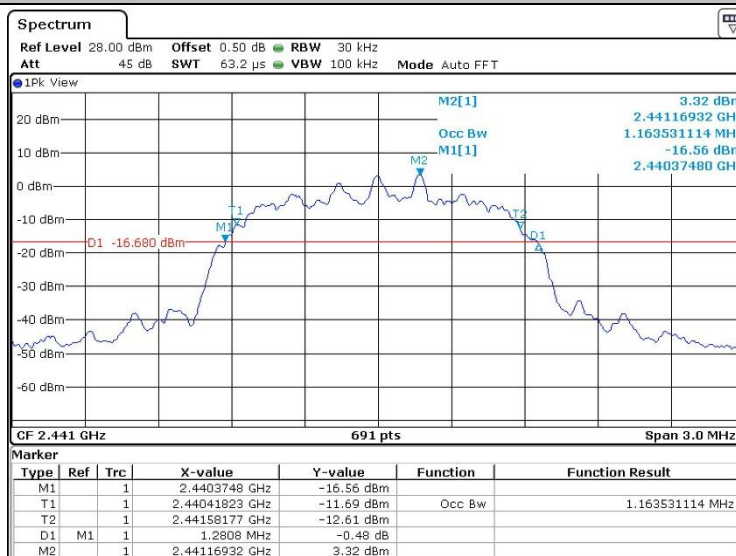
GFSK_Ant2_2441



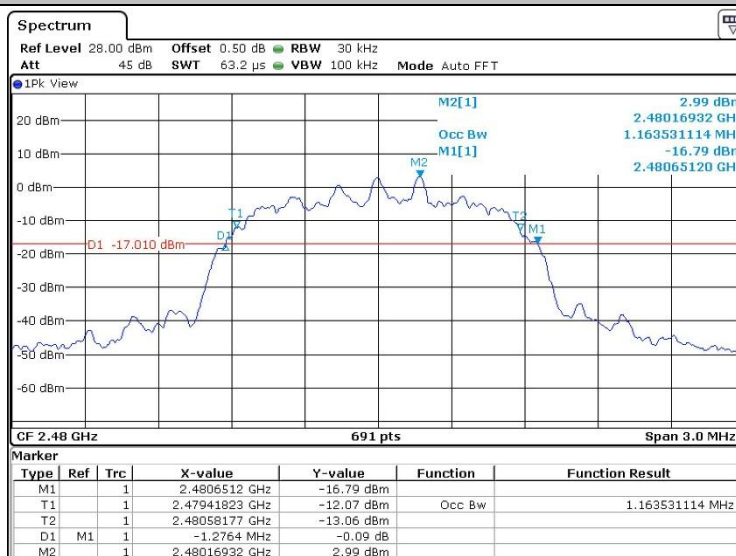
GFSK_Ant2_2480



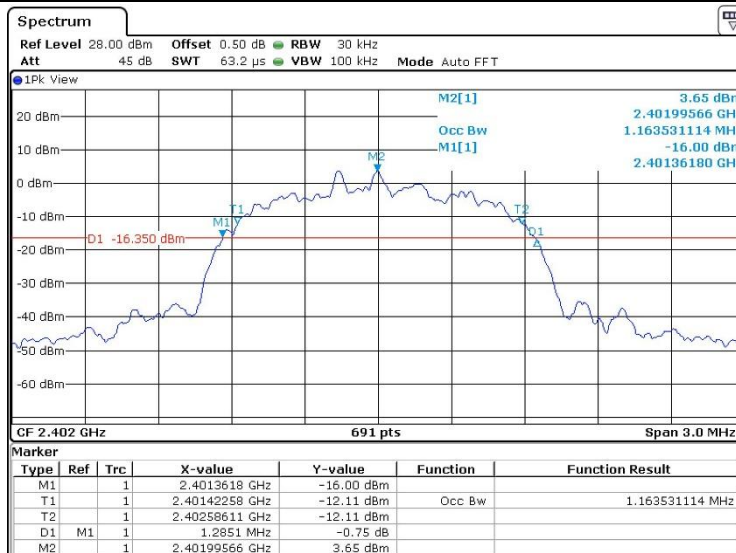
$\pi/4$ -DQPSK_Ant2_2402



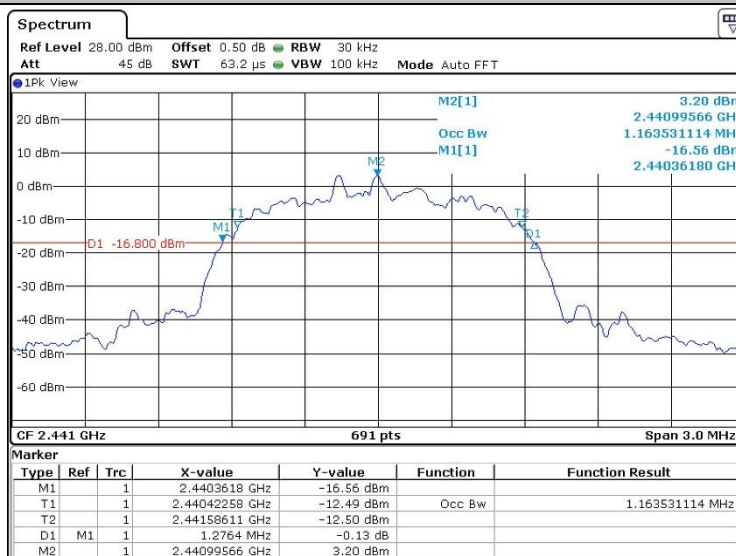
$\pi/4$ -DQPSK_Ant2_2441



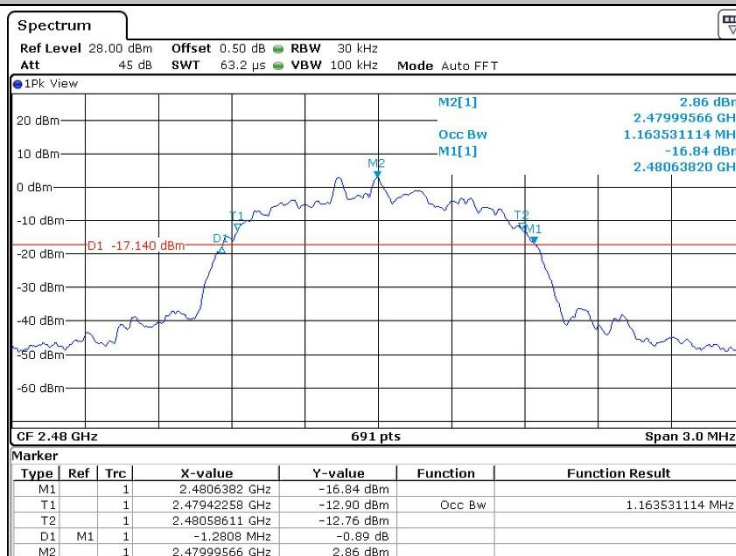
$\pi/4$ -DQPSK_Ant2_2480



8DPSK_Ant2_2402



8DPSK_Ant2_2441

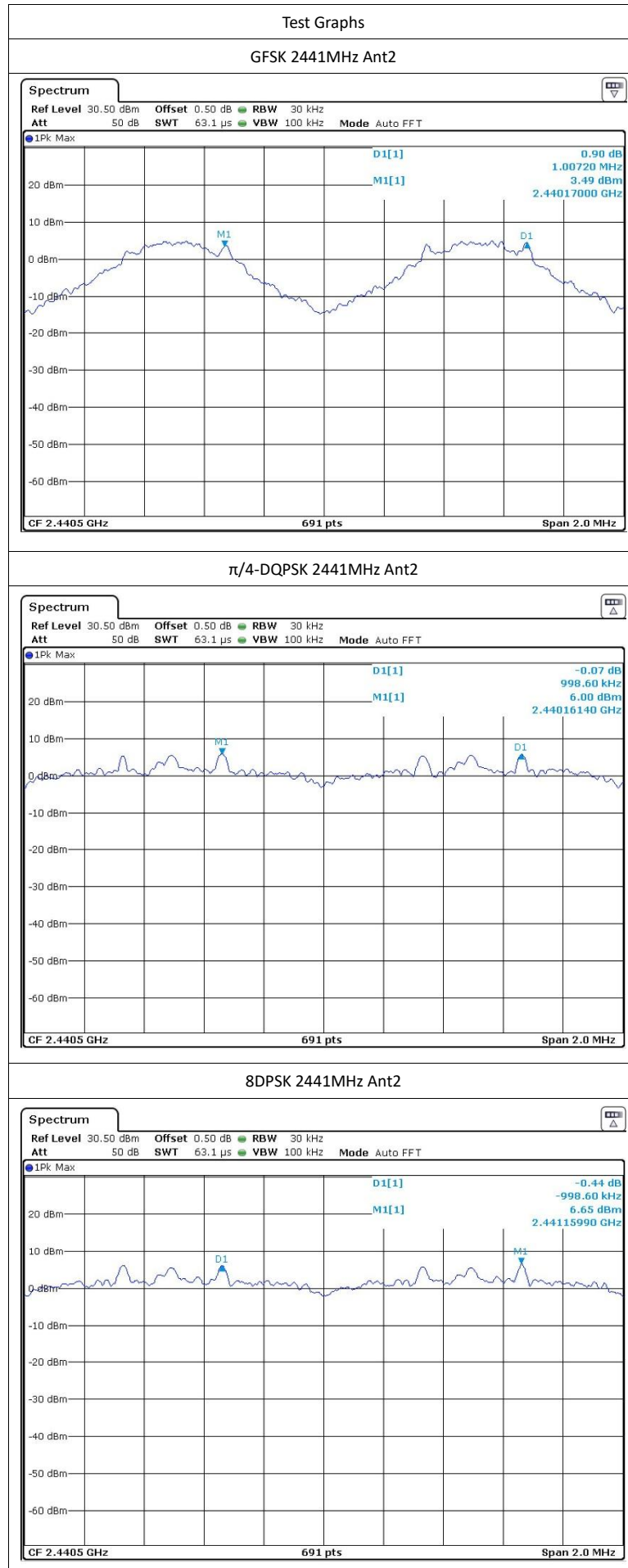


8DPSK_Ant2_2480

Carrier Frequencies Separation

Worst-case Result:

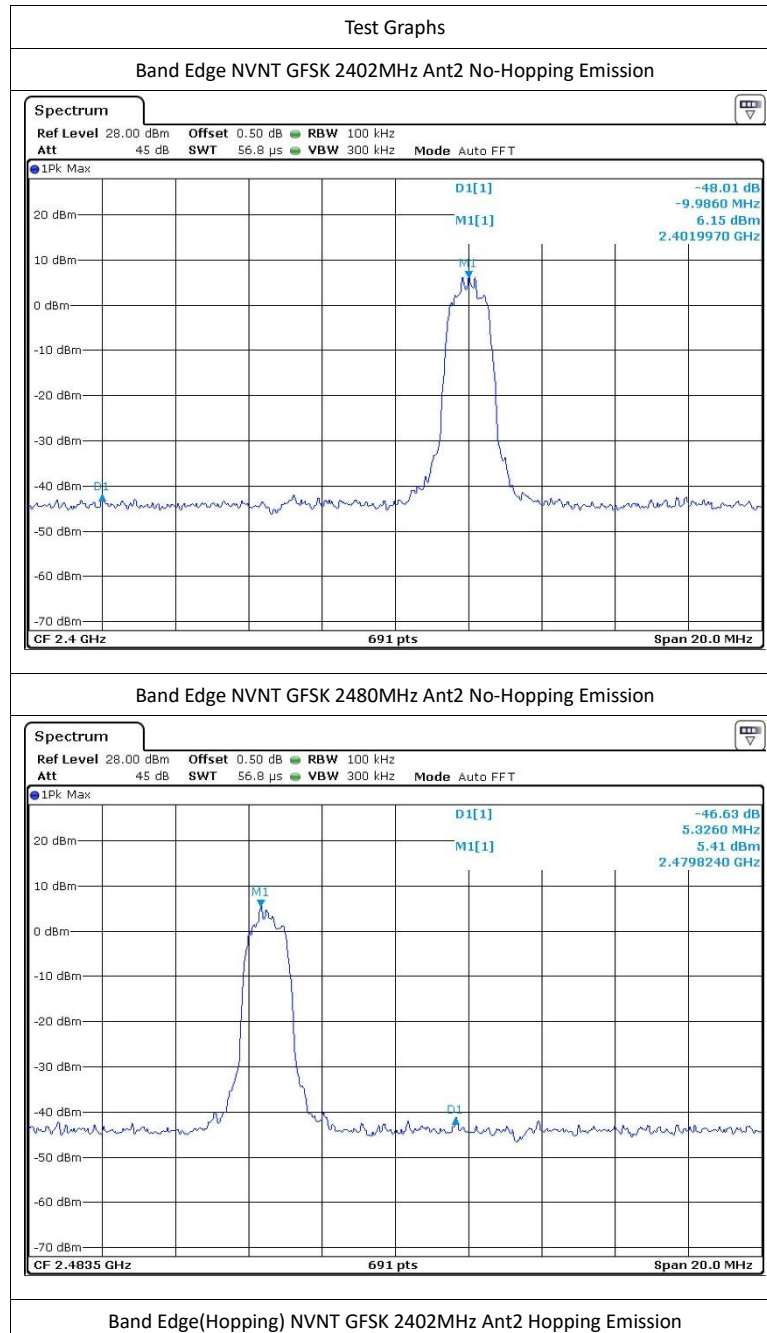
Mode	Antenna	Channel Separation (MHz)	Limit (MHz)	Verdict
GFSK	Ant2	1.007	0.635	Pass
$\pi/4$ -DQPSK	Ant2	0.999	0.854	Pass
8DPSK	Ant2	0.999	0.857	Pass

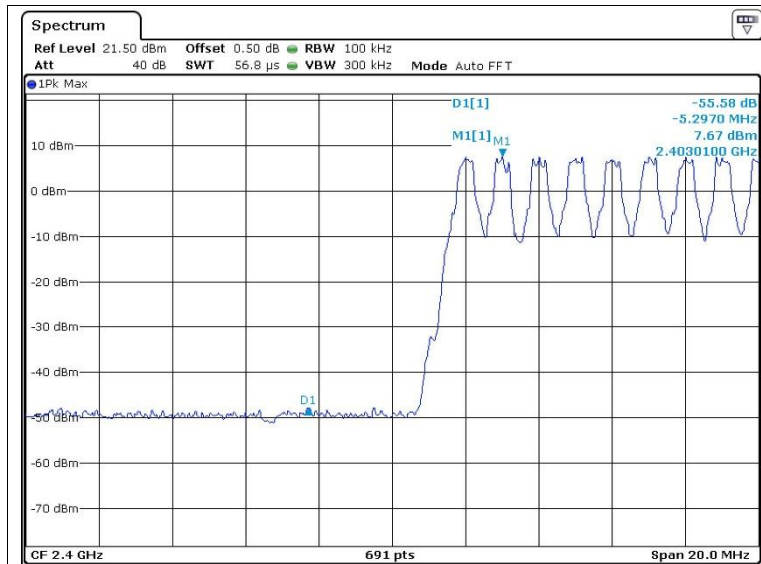


Band Edge

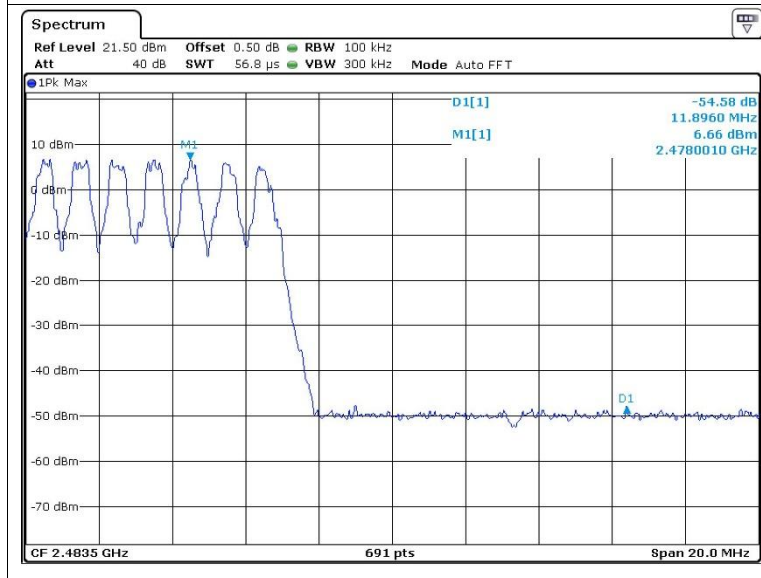
Worst-case Result:

Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
GFSK	2402	Ant2	No-Hopping	-48.01	-20	Pass
	2480	Ant2	No-Hopping	-46.63	-20	Pass
	2402	Ant2	Hopping	-55.58	-20	Pass
	2480	Ant2	Hopping	-54.58	-20	Pass





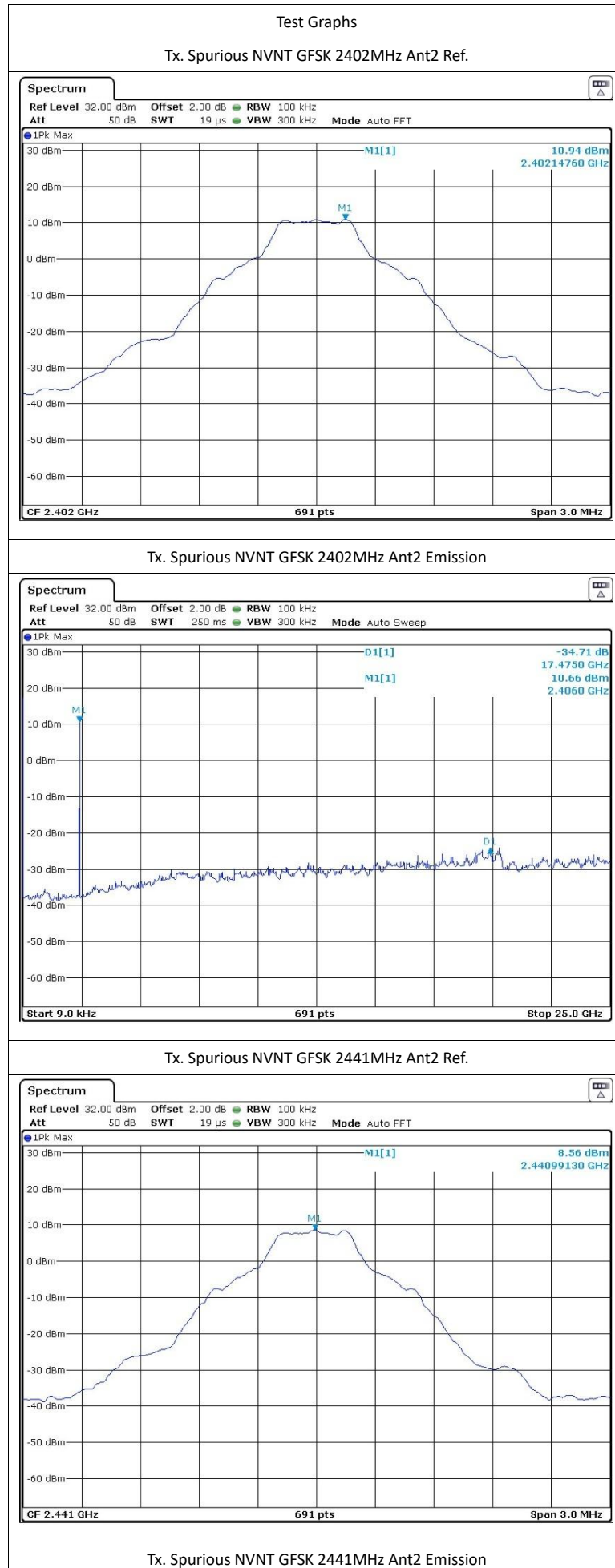
Band Edge(Hopping) NVNT GFSK 2480MHz Ant2 Hopping Emission

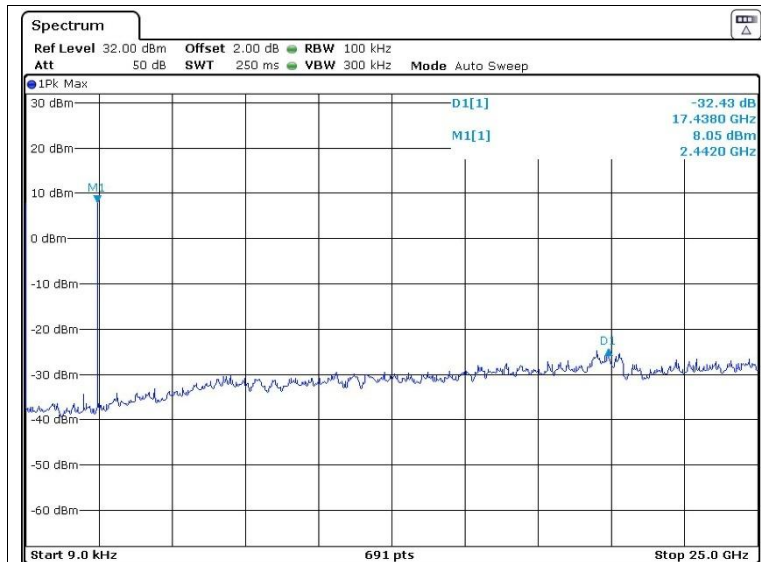


Conducted RF Spurious Emission

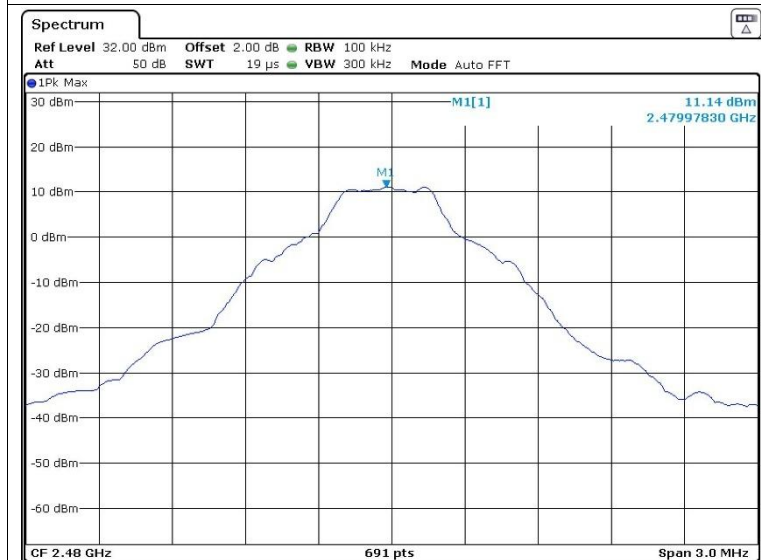
Worst-case Result:

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
GFSK	2402	Ant2	-34.71	-20	Pass
	2441	Ant2	-32.43	-20	Pass
	2480	Ant2	-34.83	-20	Pass
$\pi/4$ -DQPSK	2402	Ant2	-31.70	-20	Pass
	2441	Ant2	-27.05	-20	Pass
	2480	Ant2	-30.55	-20	Pass
8DPSK	2402	Ant2	-31.57	-20	Pass
	2441	Ant2	-26.82	-20	Pass
	2480	Ant2	-31.70	-20	Pass

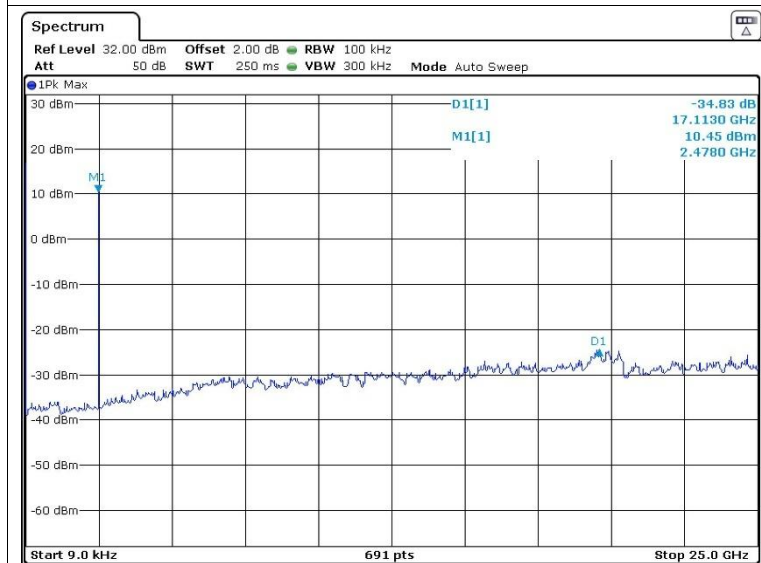




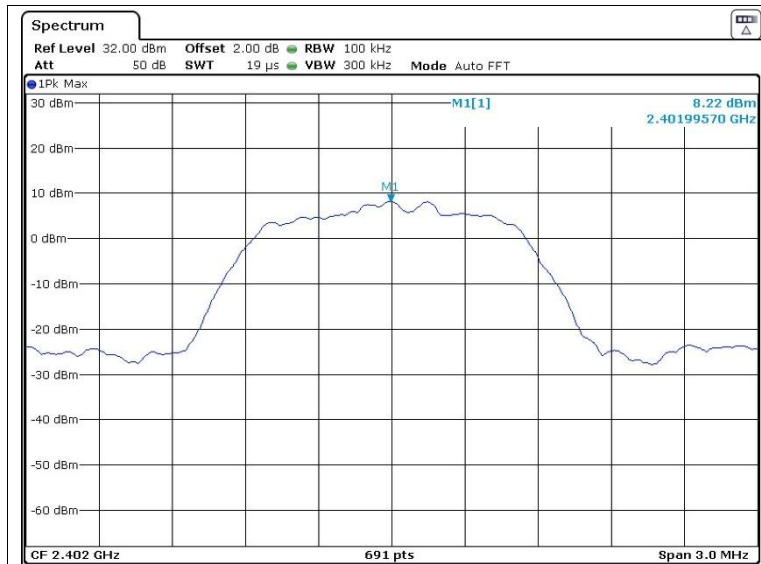
Tx. Spurious NVNT GFSK 2480MHz Ant2 Ref.



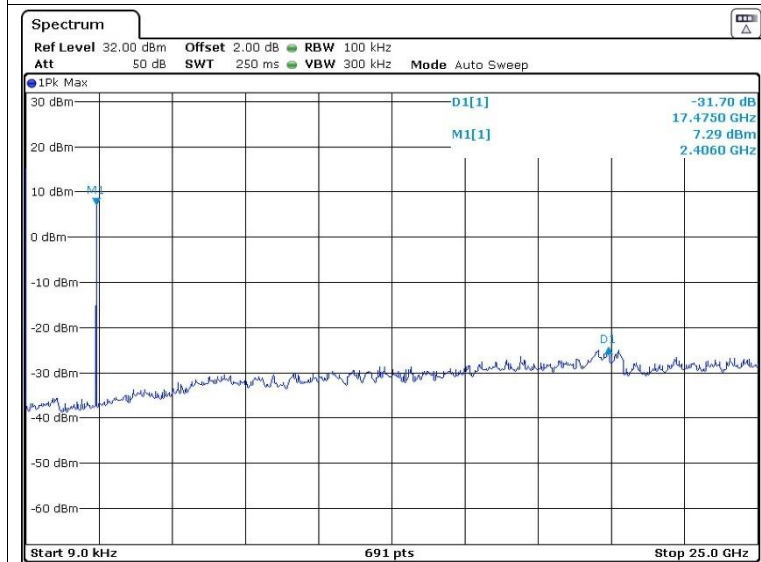
Tx. Spurious NVNT GFSK 2480MHz Ant2 Emission



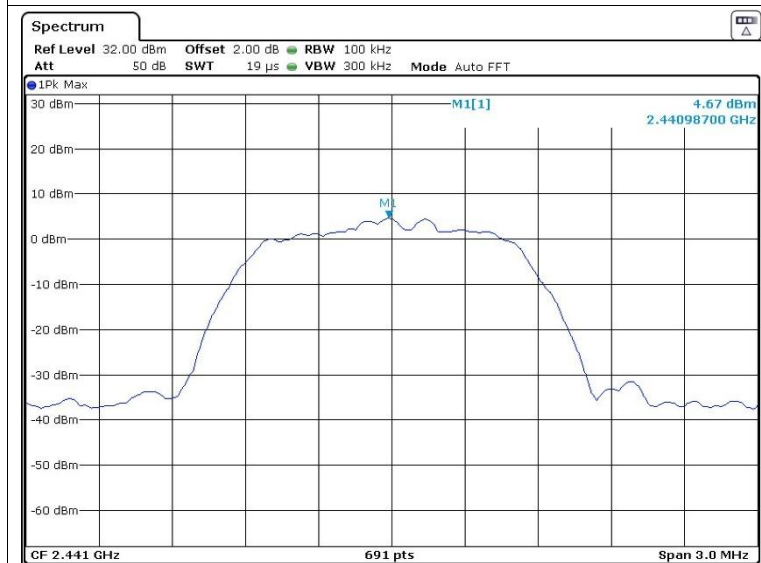
Tx. Spurious NVNT $\pi/4$ -DQPSK 2402MHz Ant2 Ref.



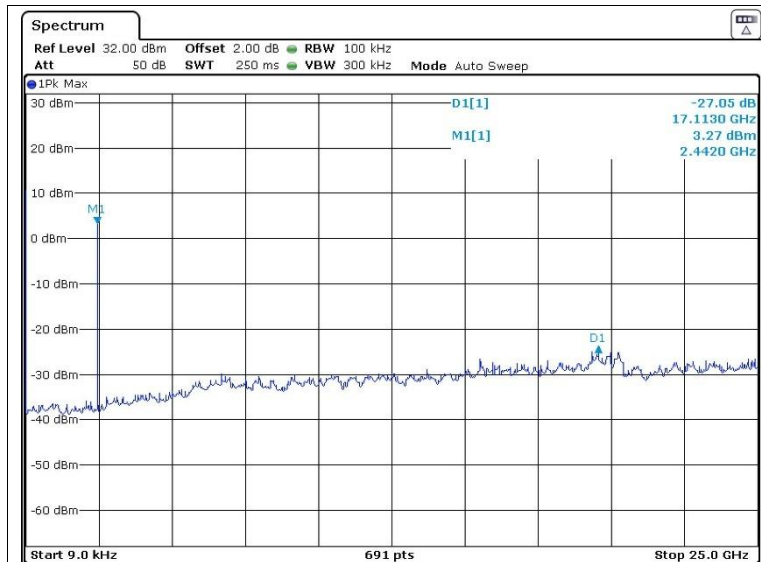
Tx. Spurious NVNT $\pi/4$ -DQPSK 2402MHz Ant2 Emission



Tx. Spurious NVNT $\pi/4$ -DQPSK 2441MHz Ant2 Ref.



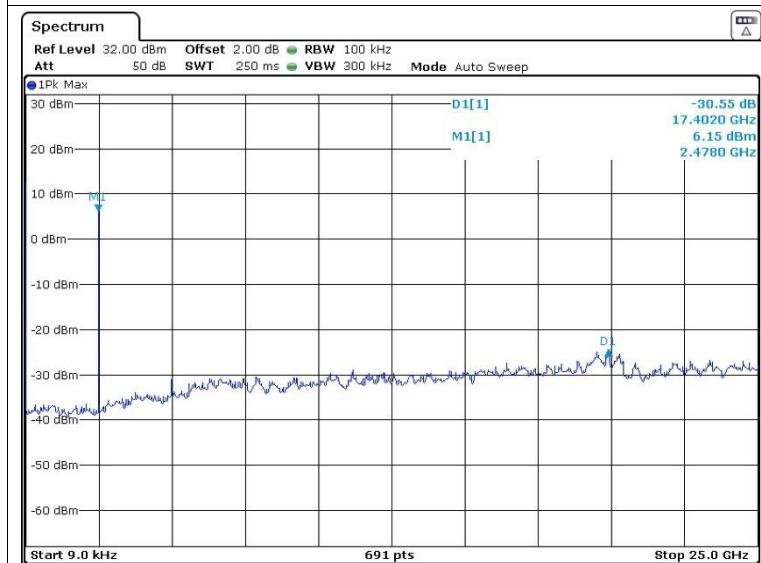
Tx. Spurious NVNT $\pi/4$ -DQPSK 2441MHz Ant2 Emission



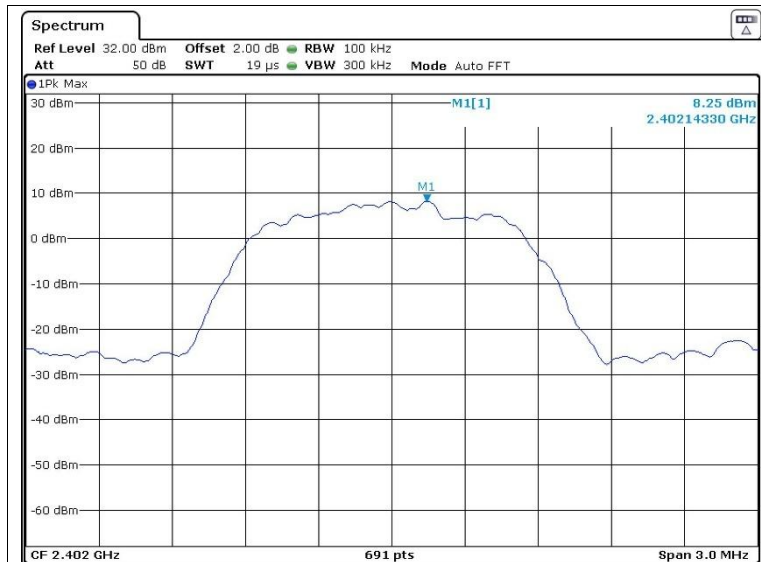
Tx. Spurious NVNT $\pi/4$ -DQPSK 2480MHz Ant2 Ref.



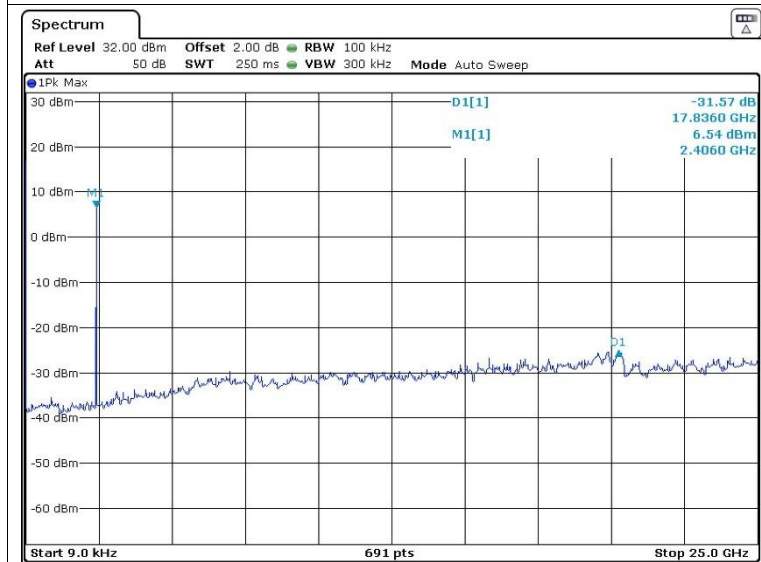
Tx. Spurious NVNT $\pi/4$ -DQPSK 2480MHz Ant2 Emission



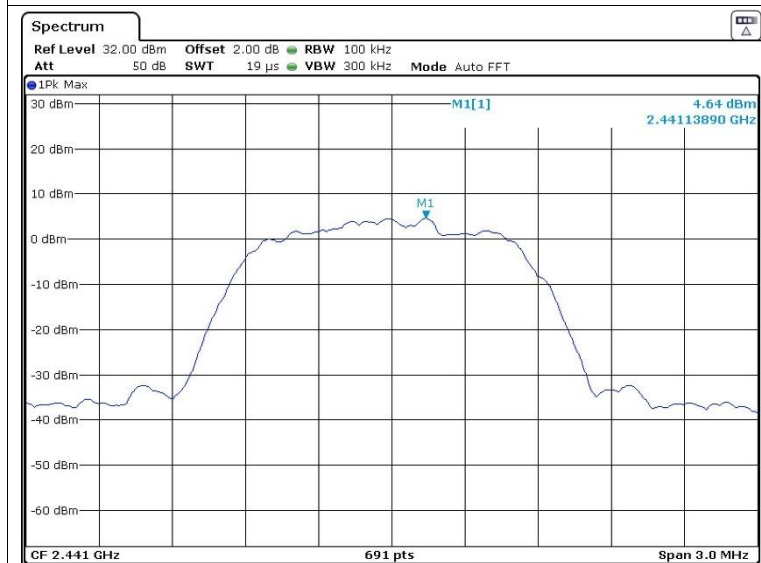
Tx. Spurious NVNT 8DPSK 2402MHz Ant2 Ref.



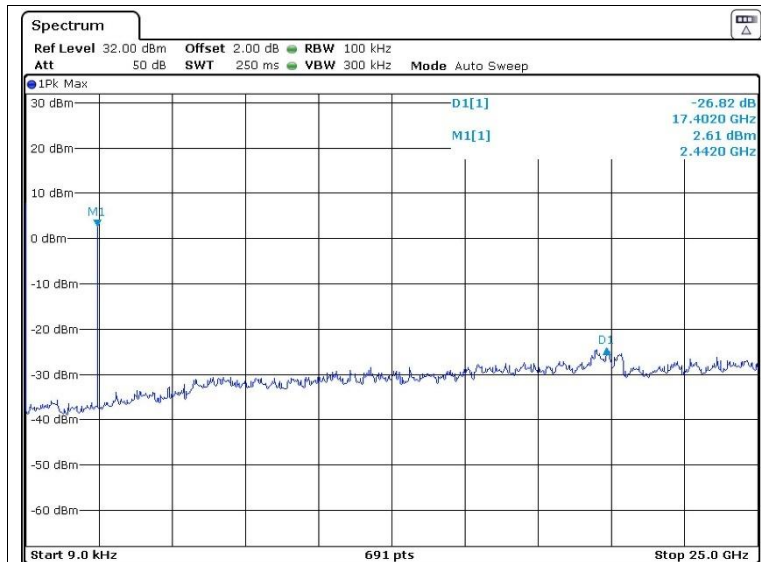
Tx. Spurious NVNT 8DPSK 2402MHz Ant2 Emission



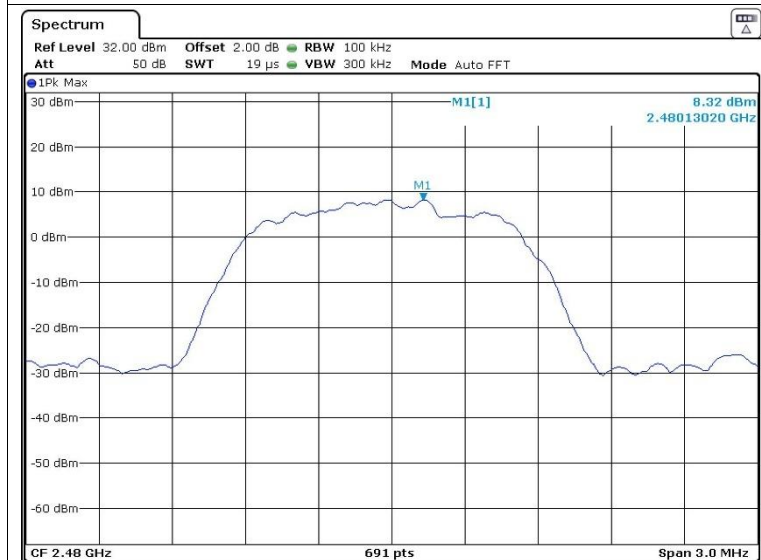
Tx. Spurious NVNT 8DPSK 2441MHz Ant2 Ref.



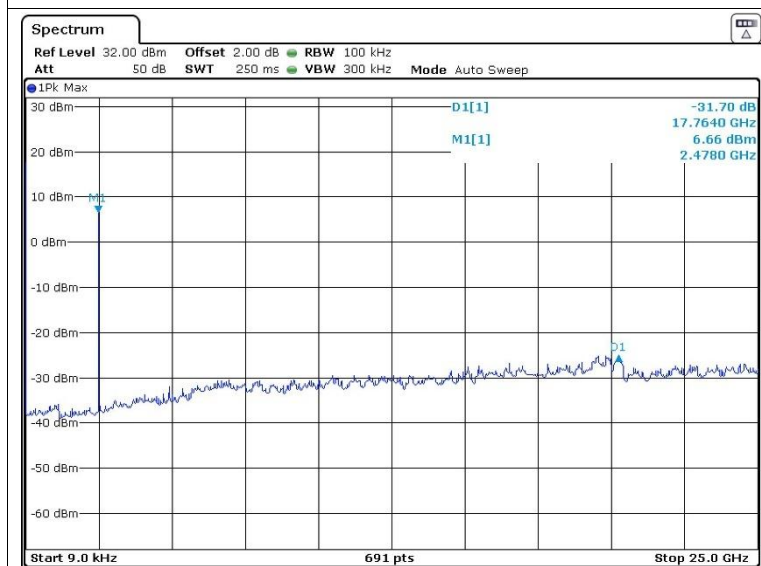
Tx. Spurious NVNT 8DPSK 2441MHz Ant2 Emission



Tx. Spurious NVNT 8DPSK 2480MHz Ant2 Ref.



Tx. Spurious NVNT 8DPSK 2480MHz Ant2 Emission

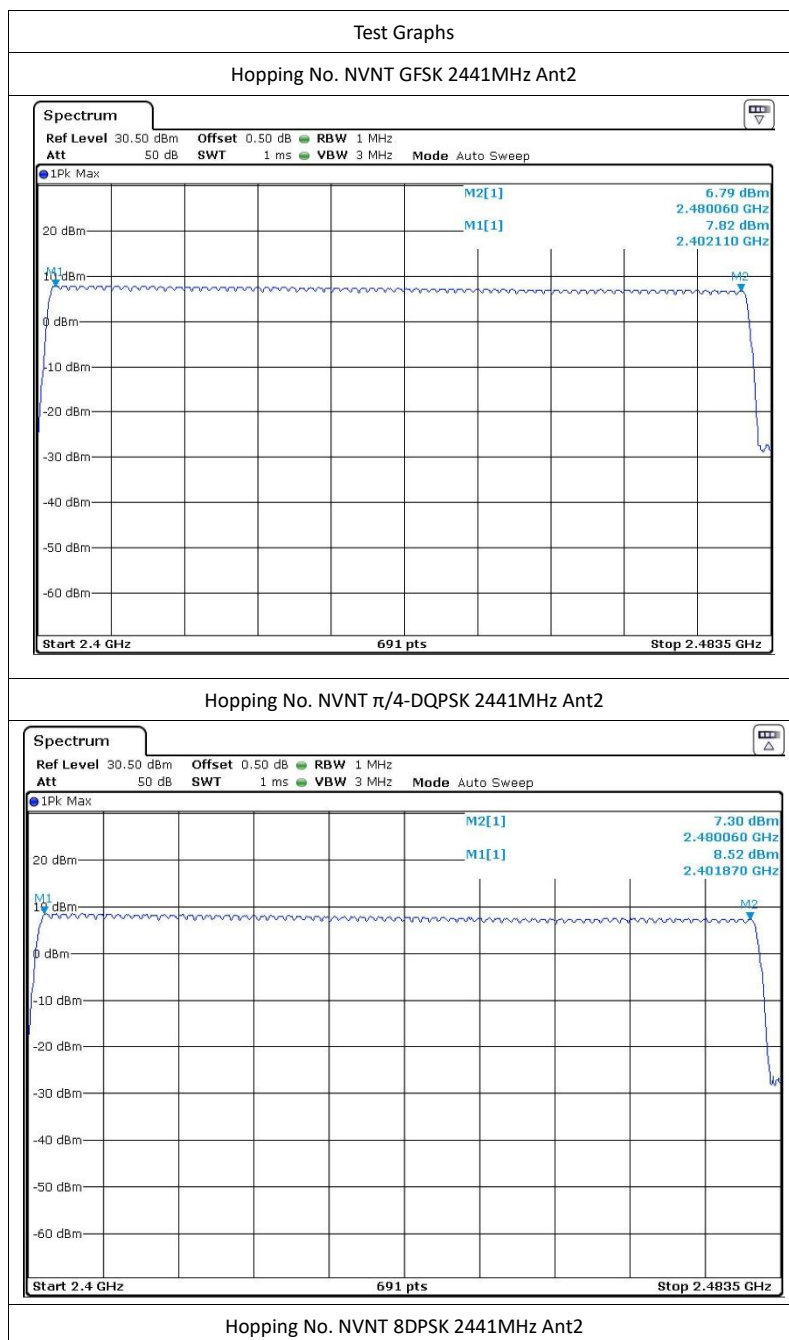


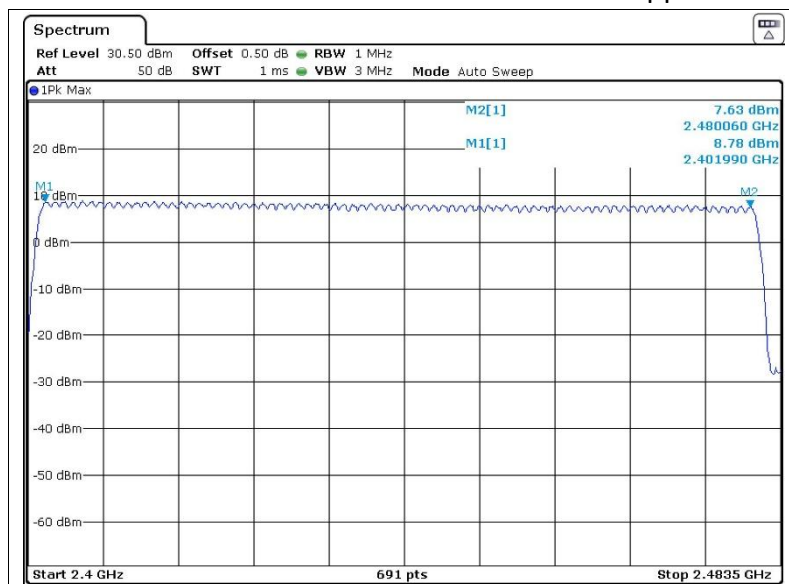
Note: offset=cable loss

Number of Hopping Channel

Worst-case Result:

Mode	Antenna	Hopping Number	Limit	Verdict
GFSK	Ant2	79	75	Pass
$\pi/4$ -DQPSK	Ant2	79	75	Pass
8DPSK	Ant2	79	75	Pass





Dwell Time

Worst-case Result:

Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
GFSK(DH1)	2402	Ant2	0.383	122.56	31600	400	Pass
GFSK(DH3)	2402	Ant2	1.652	264.32	31600	400	Pass
GFSK(DH5)	2402	Ant2	2.910	310.41	31600	400	Pass

Note:

1. In DH1 mode, hopping rate is 1600 hops/s with 2 slots in 79 hopping channels. With channel hopping rate $(1600/2/79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/2/79) \times (0.4 \times 79) = 320$ hops. Total Dwell time = Pulse Time $\times$ 320.
2. In DH3 mode, hopping rate is 1600 hops/s with 4 slots in 79 hopping channels. With channel hopping rate $(1600/4/79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/4/79) \times (0.4 \times 79) = 160$ hops. Total Dwell time = Pulse Time $\times$ 160.
3. In DH5 mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate $(1600/6/79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/6/79) \times (0.4 \times 79) = 106.67$ hops. Total Dwell time = Pulse Time $\times$ 106.67.

