
FCC_RF 2.4G (Part15.247) Test Data

Report No.: NCT250501882XE1-1

FCC ID: 2ATHV-CR10S

Contents

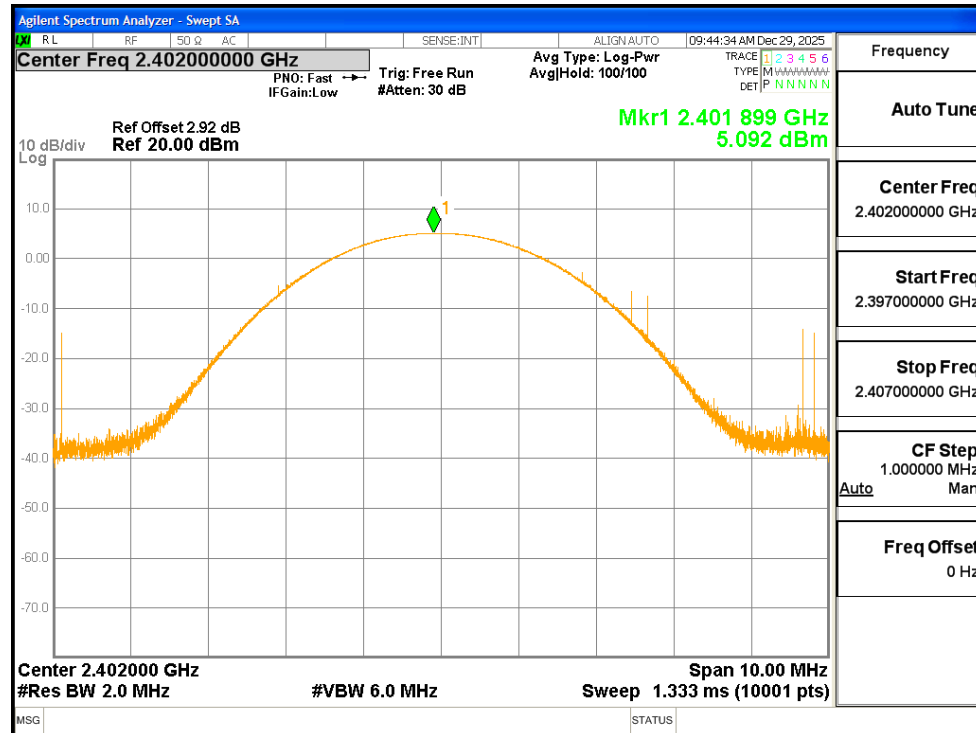
Maximum Conducted Output Power	2
-20dB Bandwidth.....	5
Carrier Frequencies Separation.....	8
Number of Hopping Channel	11
Dwell Time	14
Band Edge	18
Band Edge(Hopping)	21
Conducted RF Spurious Emission.....	24

Maximum Conducted Output Power

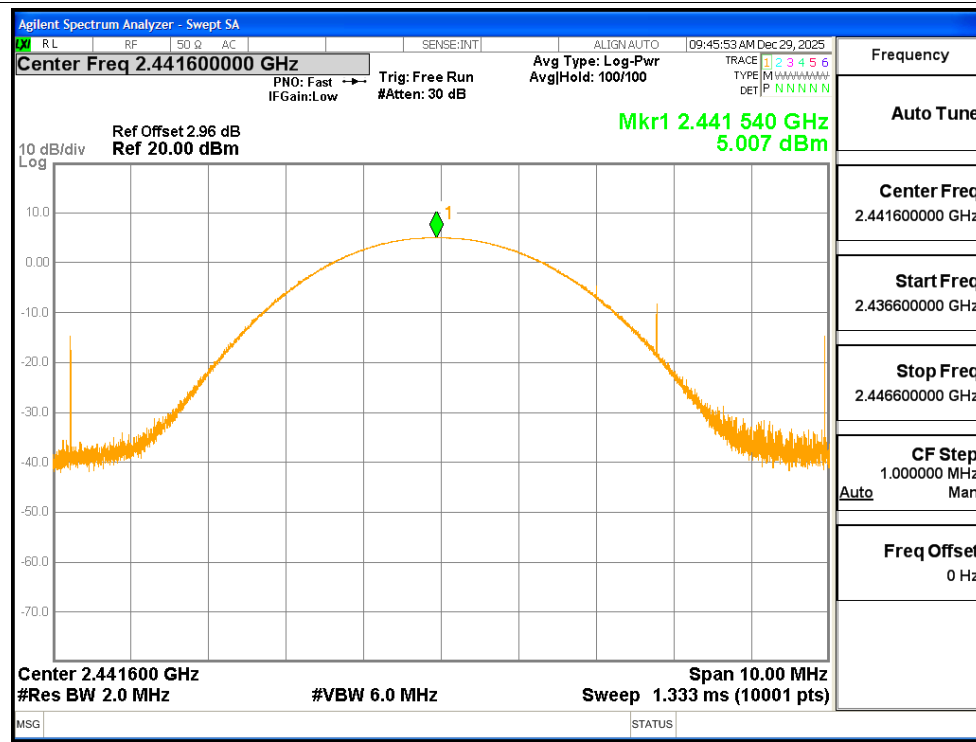
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2402	Ant1	5.09	0	5.09	21	Pass
		2441.6		5.01	0	5.01	21	Pass
		2481.2		5.15	0	5.15	21	Pass

Test Graphs

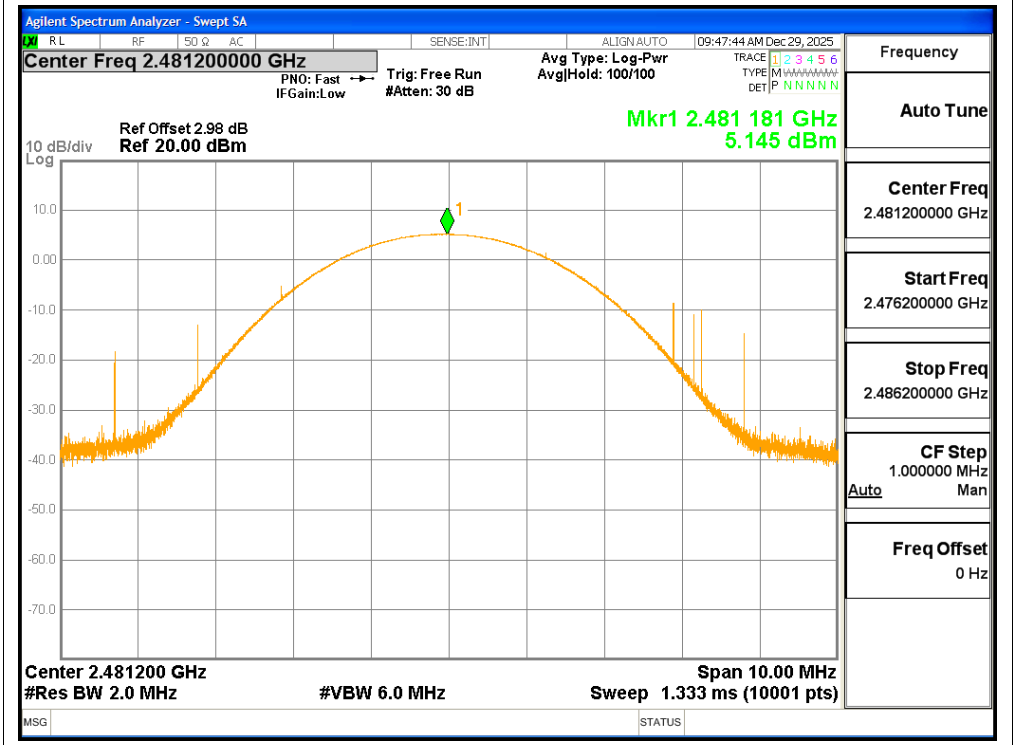
Power NVNT GFSK 2402MHz Ant1



Power NVNT GFSK 2441.6MHz Ant1



Power NVNT GFSK 2481.2MHz Ant1

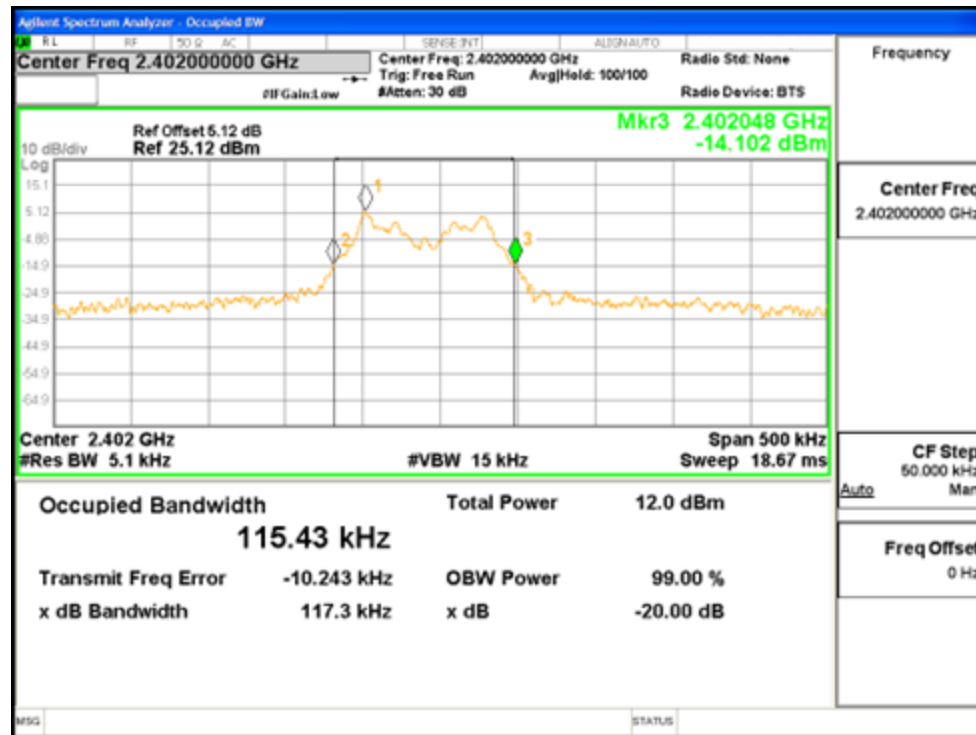


-20dB Bandwidth

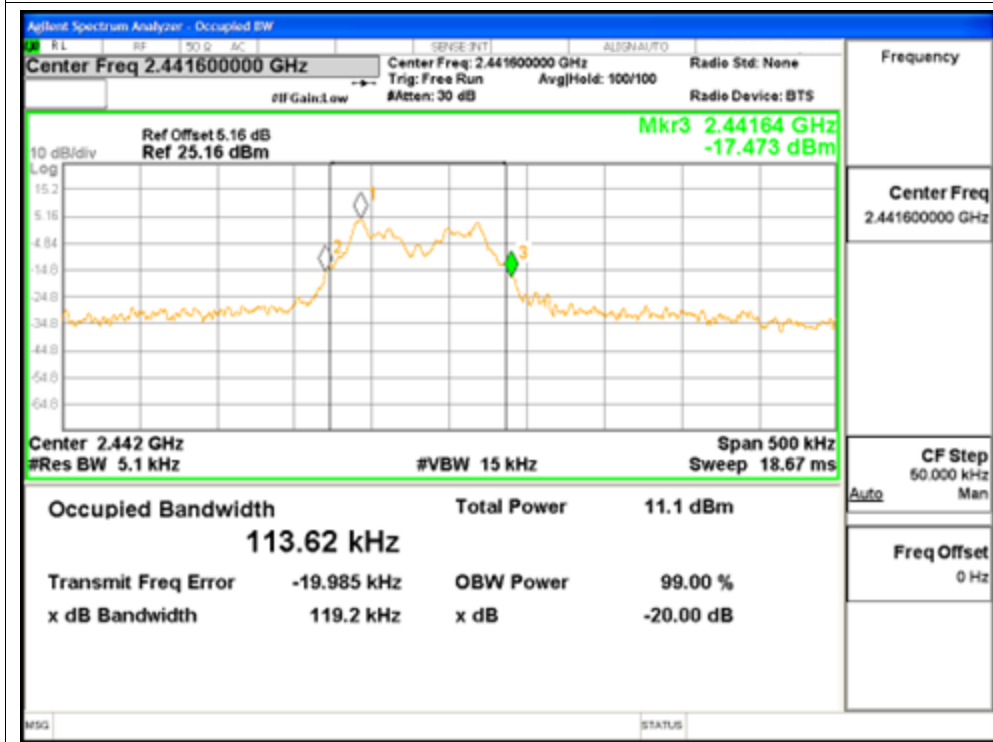
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	GFSK	2402	Ant1	0.117	0	Pass
		2441.6		0.119	0	Pass
		2481.2		0.120	0	Pass

Test Graphs

-20dB Bandwidth NVNT GFSK 2402MHz Ant1



-20dB Bandwidth NVNT GFSK 2441.6MHz Ant1



-20dB Bandwidth NVNT GFSK 2481.2MHz Ant1

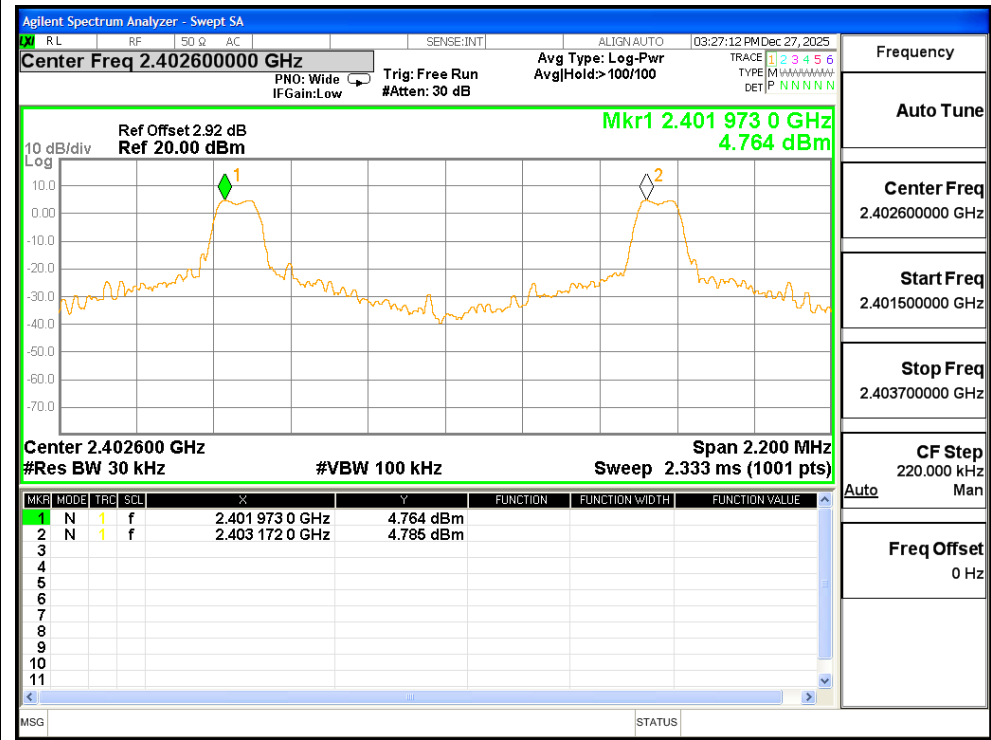


Carrier Frequencies Separation

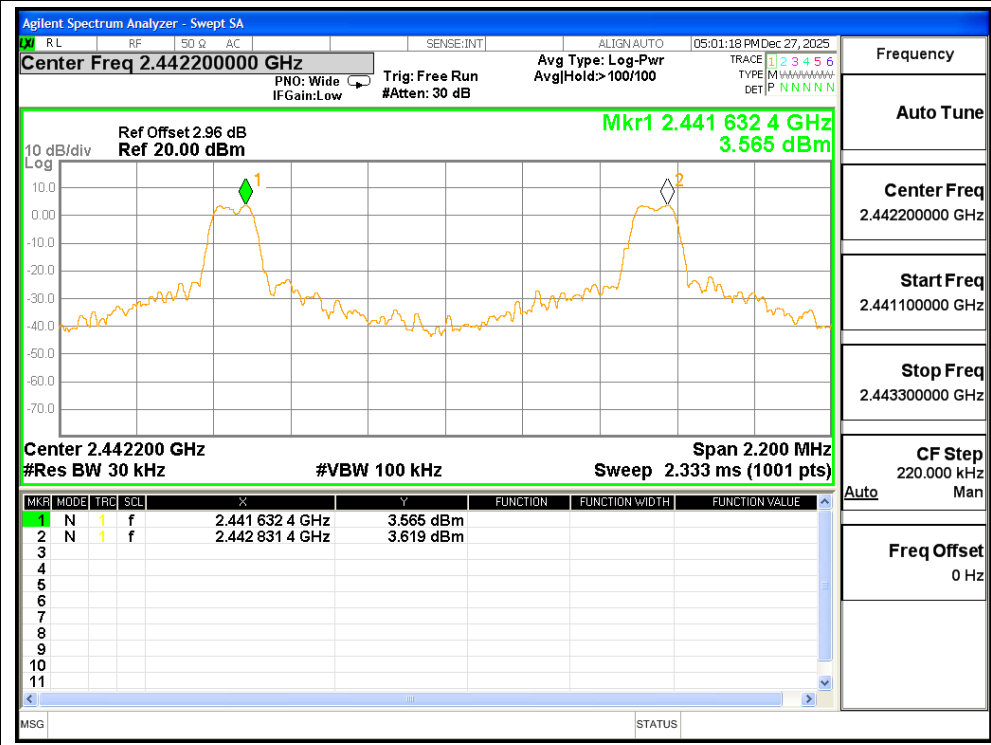
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	GFSK	Ant1	2401.973	2403.172	1.199	0.117	Pass
			2441.6324	2442.8314	1.199	0.119	Pass
			2480.0236	2481.2226	1.199	0.120	Pass

Test Graphs

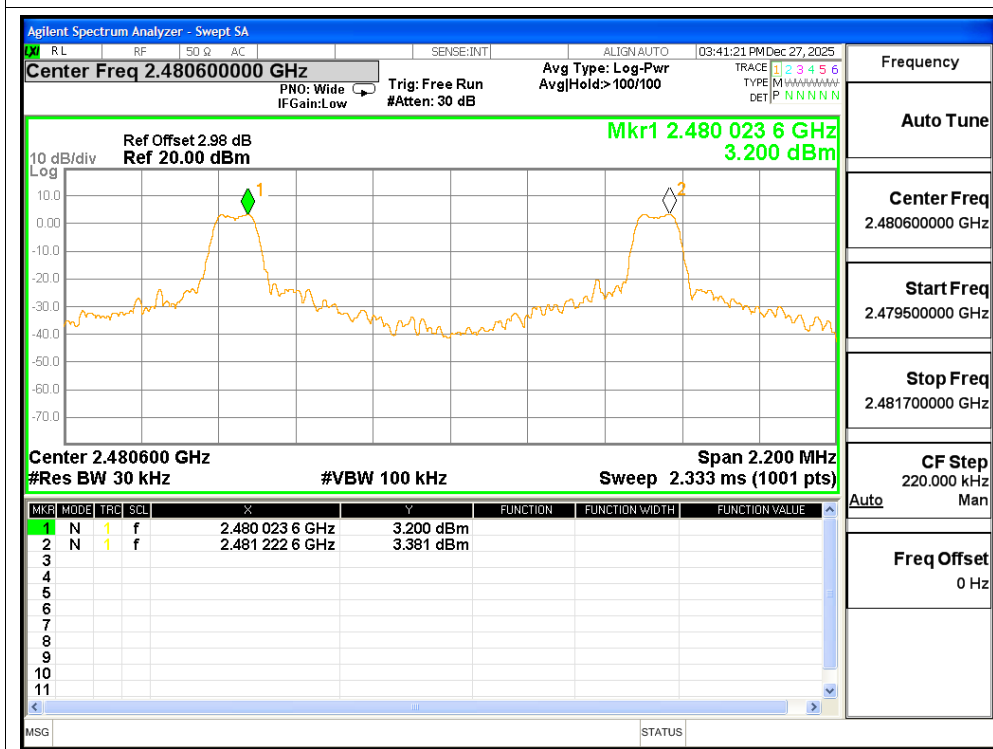
CFS NVNT GFSK 2402MHz Ant1



CFS NVNT GFSK 2441.6MHz Ant1



CFS NVNT GFSK 2481.2MHz Ant1

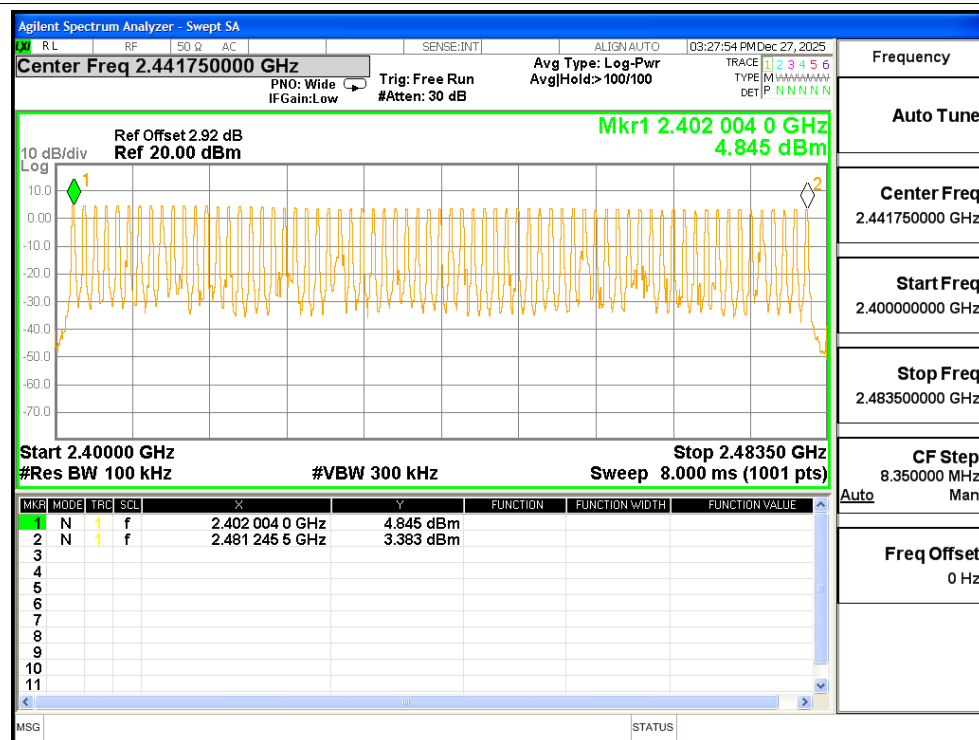


Number of Hopping Channel

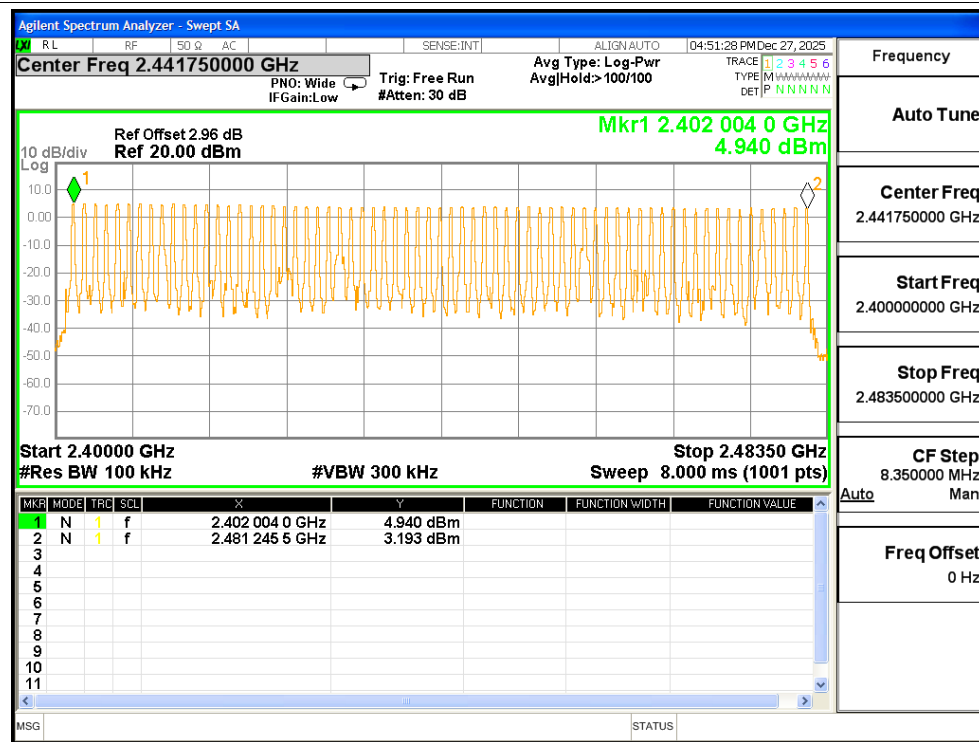
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	GFSK	Ant1	67	15	Pass

Test Graphs

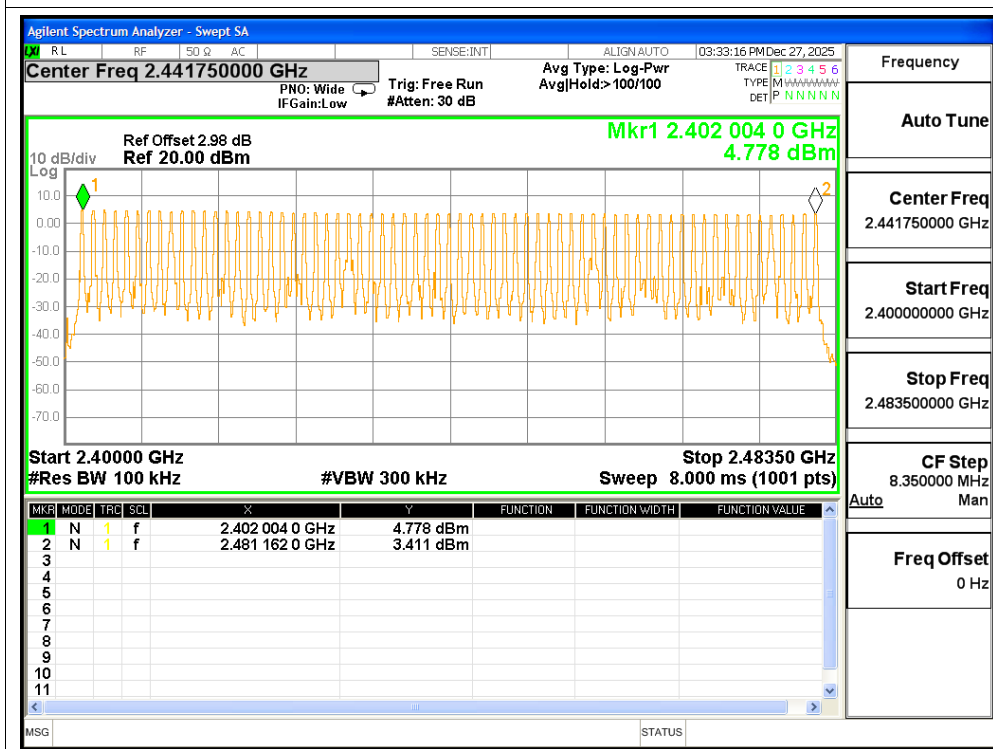
Hopping No. NVNT GFSK 2402MHz Ant1



Hopping No. NVNT GFSK 2441.6MHz Ant1



Hopping No. NVNT GFSK 2481.2MHz Ant1

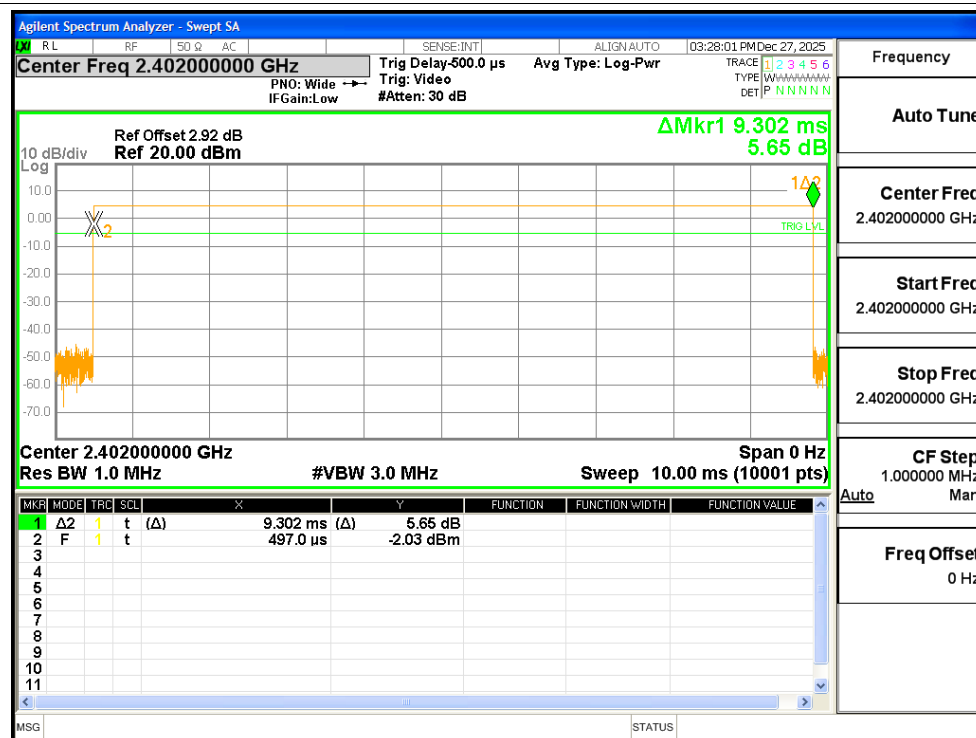


Dwell Time

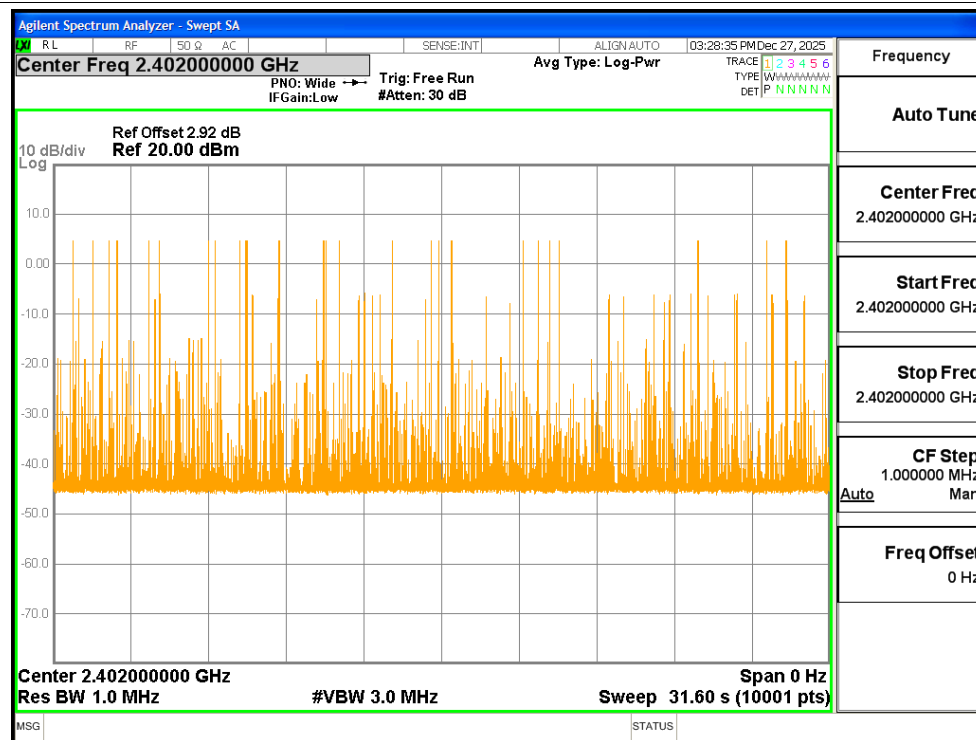
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	GFSK	2402	Ant1	9.302	241.852	26	31600	400	Pass
		2441.6		9.301	251.127	27	31600	400	Pass
		2481.2		9.301	204.622	22	31600	400	Pass

Test Graphs

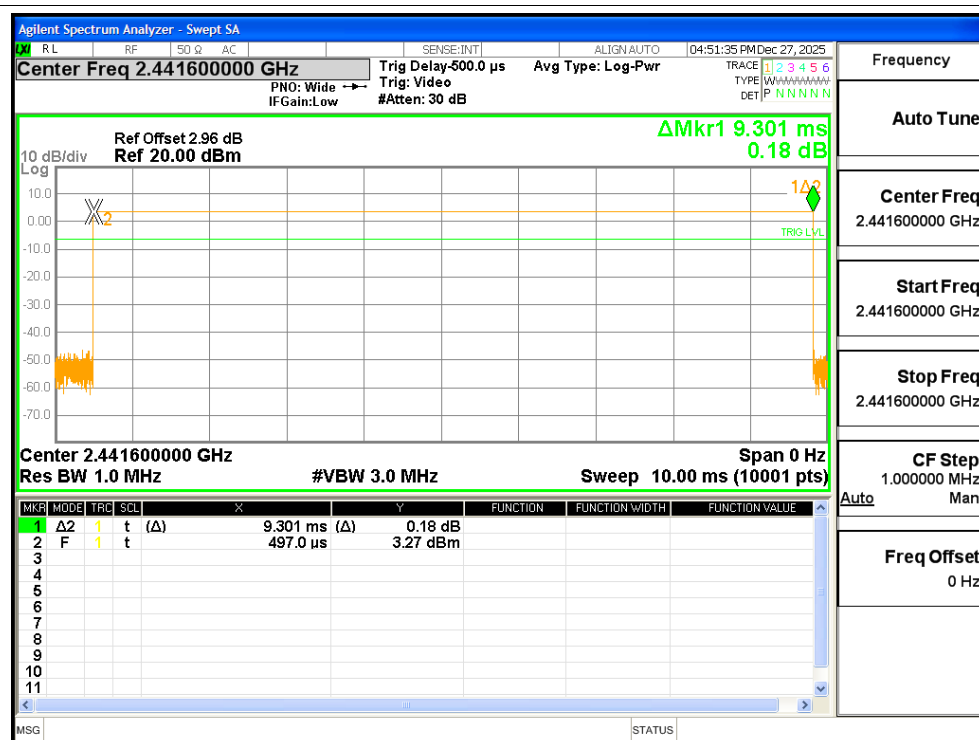
Dwell NVNT GFSK 2402MHz Ant1 One Burst



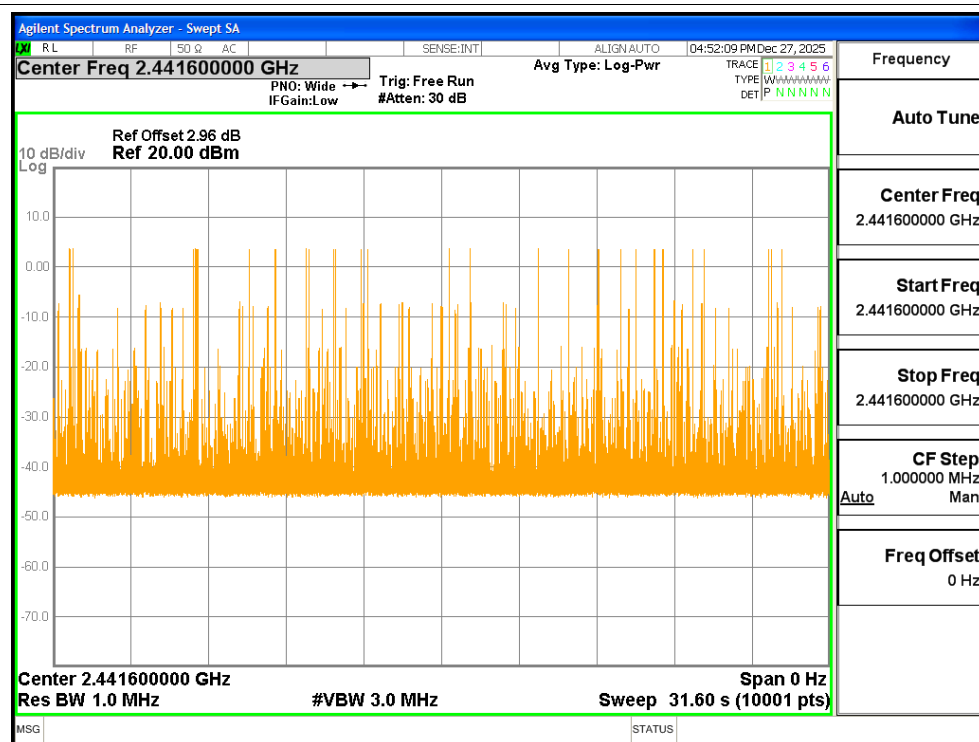
Dwell NVNT GFSK 2402MHz Ant1 Accumulated



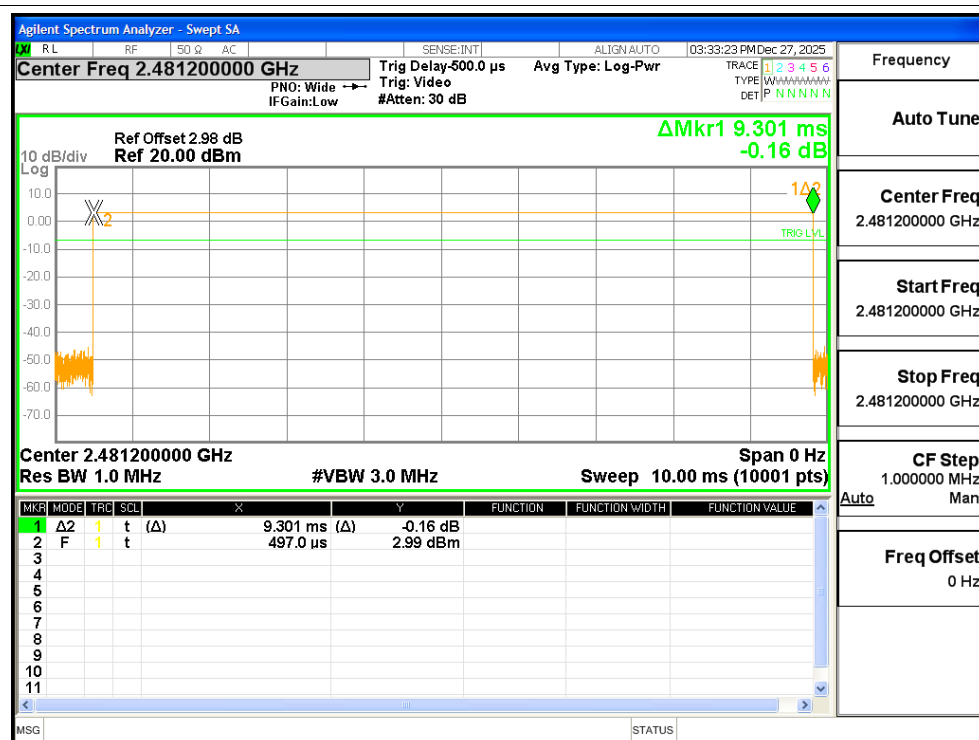
Dwell NVNT GFSK 2441.6MHz Ant1 One Burst



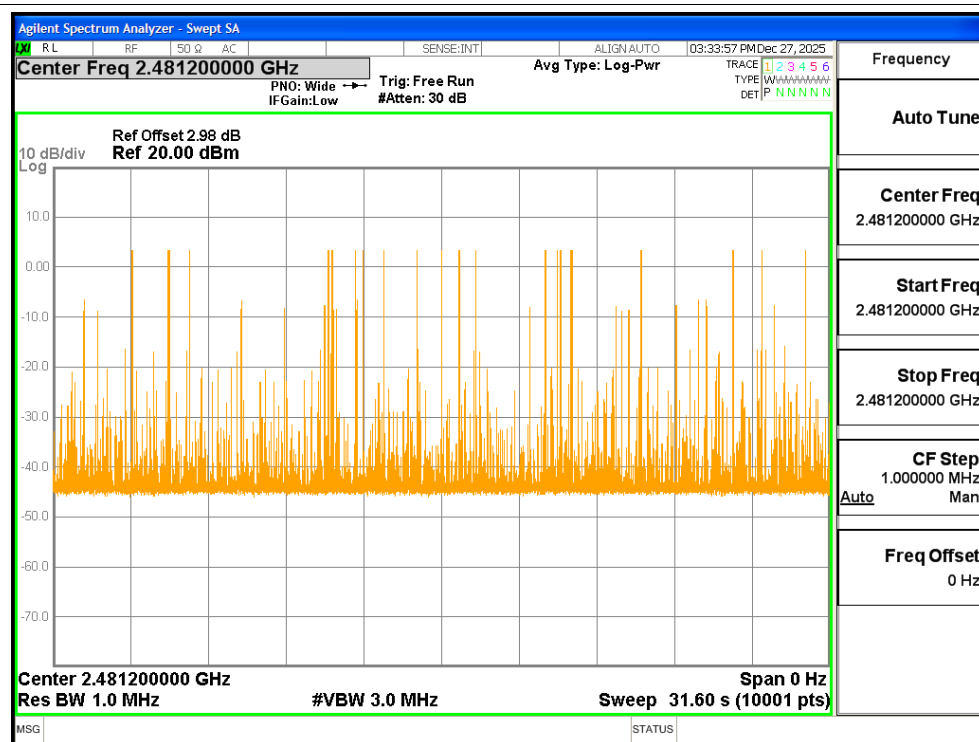
Dwell NVNT GFSK 2441.6MHz Ant1 Accumulated



Dwell NVNT GFSK 2481.2MHz Ant1 One Burst



Dwell NVNT GFSK 2481.2MHz Ant1 Accumulated

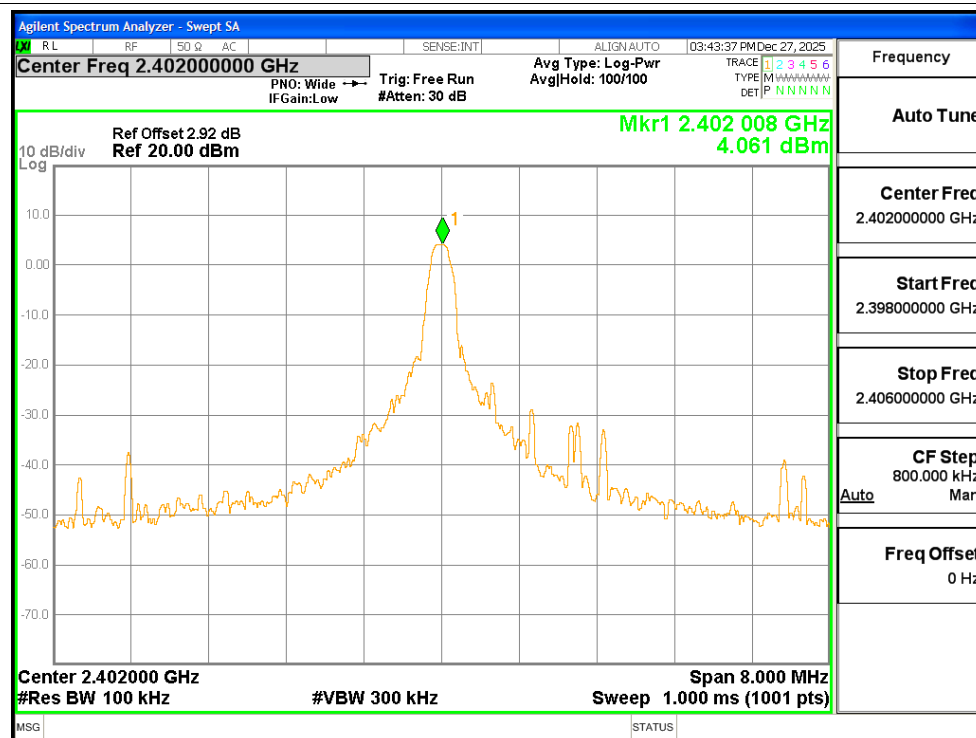


Band Edge

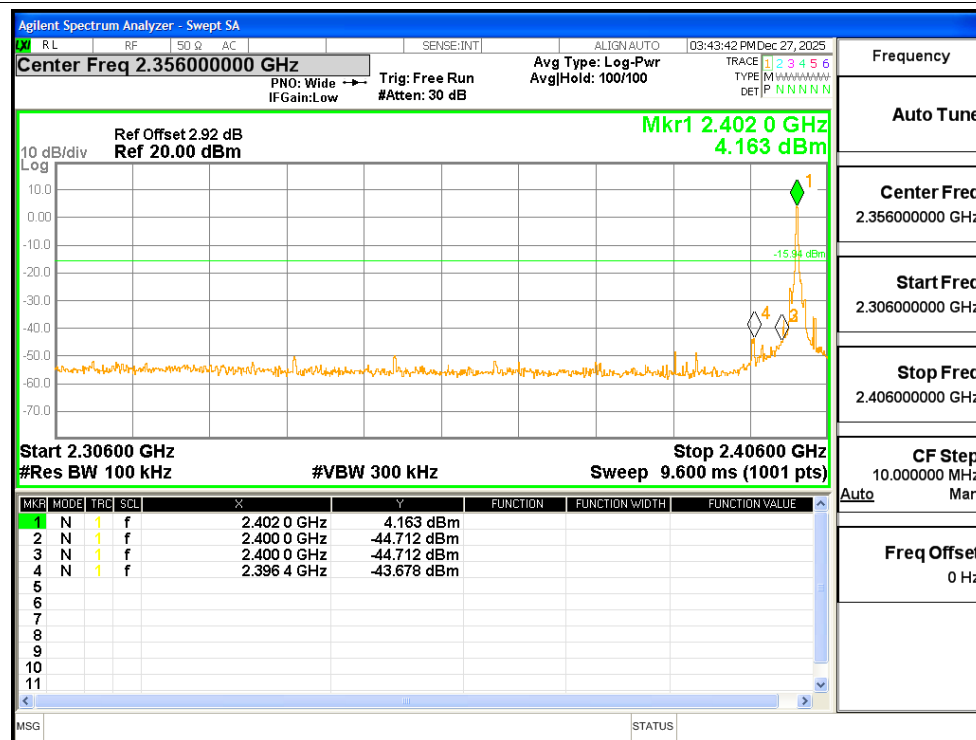
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant1	No-Hopping	-47.73	-20	Pass
		2481.2		No-Hopping	-48.72	-20	Pass

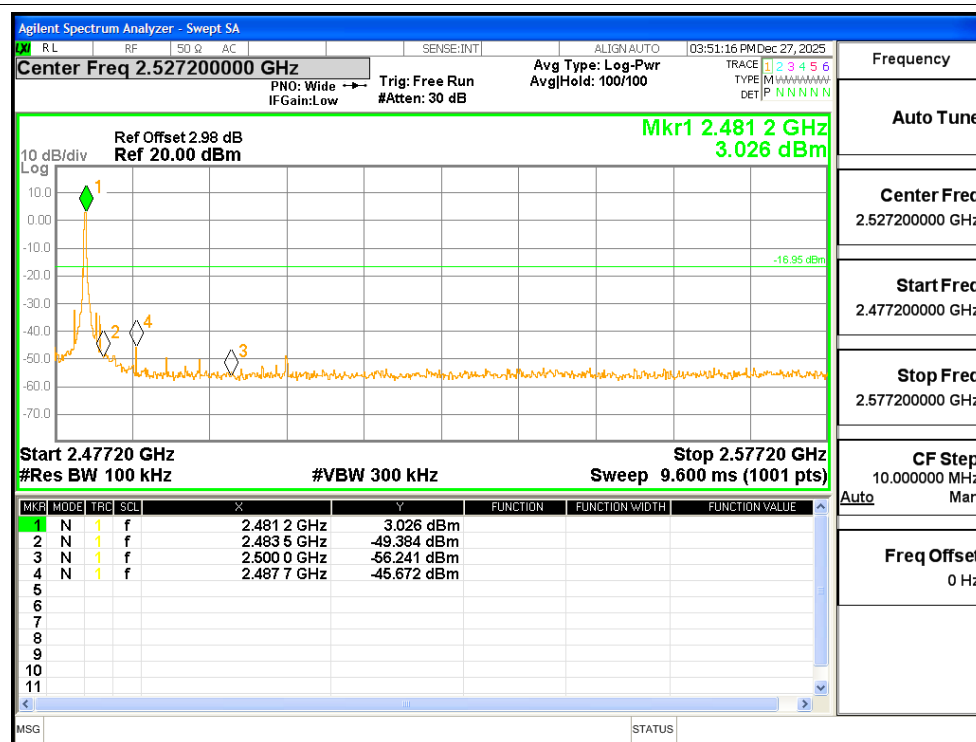
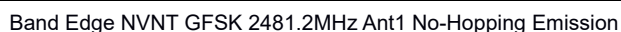
Test Graphs

Band Edge NVNT GFSK 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT GFSK 2402MHz Ant1 No-Hopping Emission



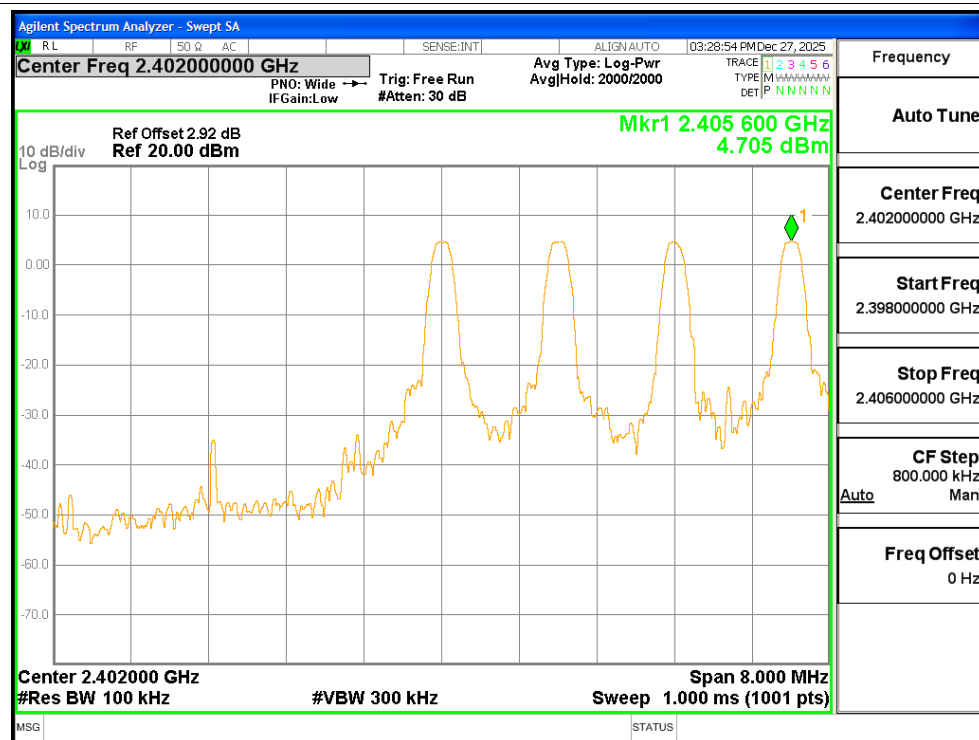


Band Edge(Hopping)

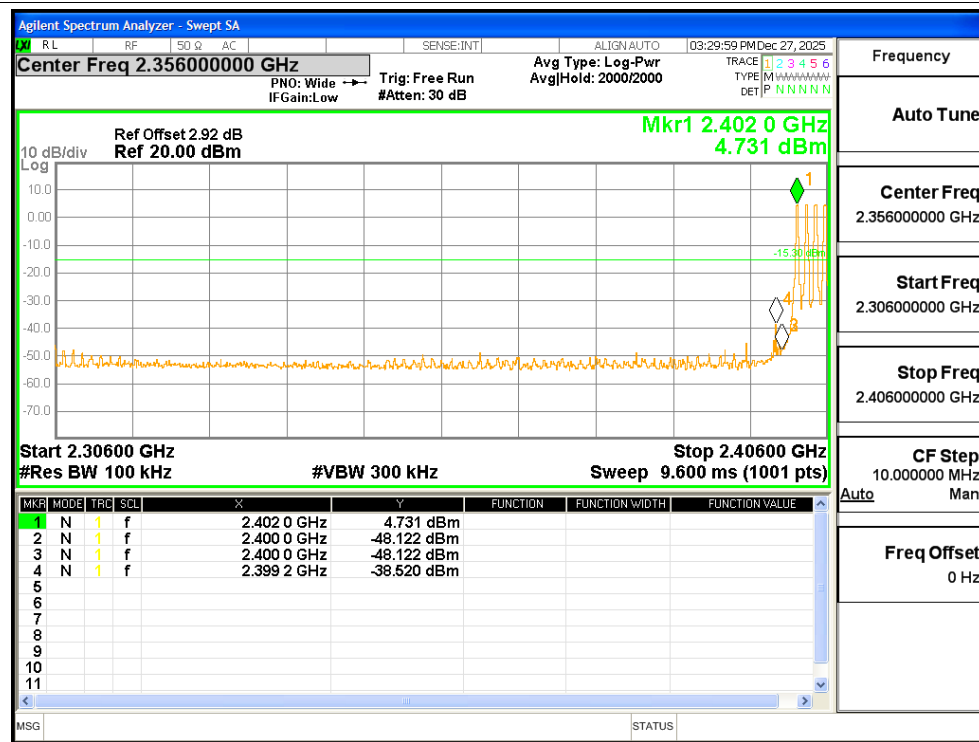
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant1	Hopping	-43.22	-20	Pass
		2481.2		Hopping	-50.33	-20	Pass

Test Graphs

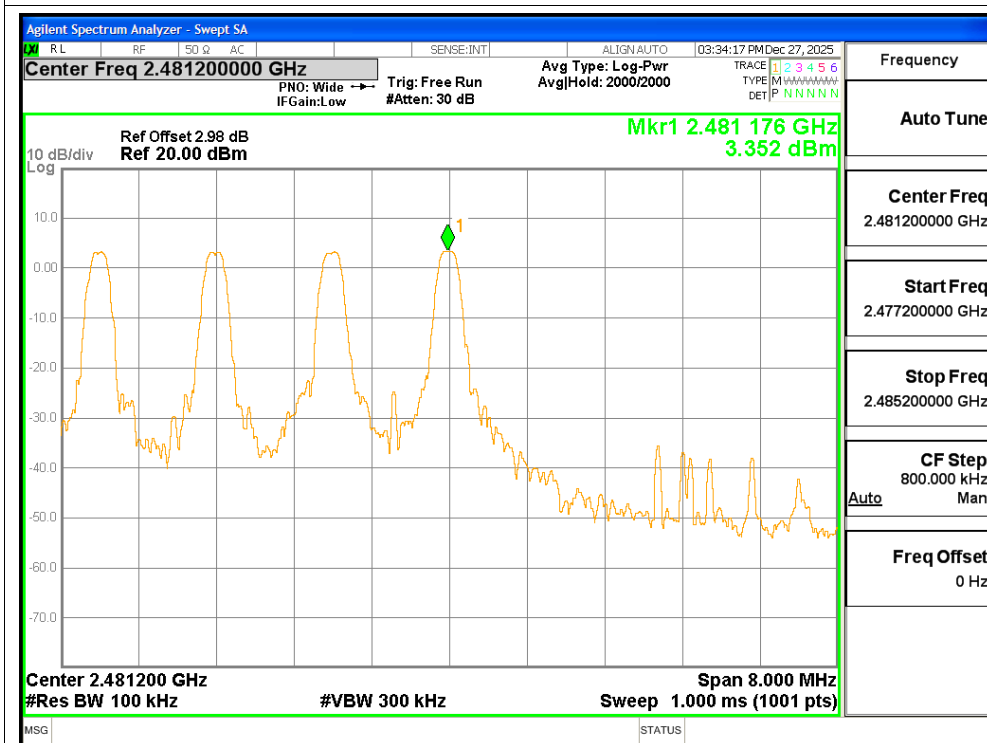
Band Edge(Hopping) NVNT GFSK 2402MHz Ant1 Hopping Ref



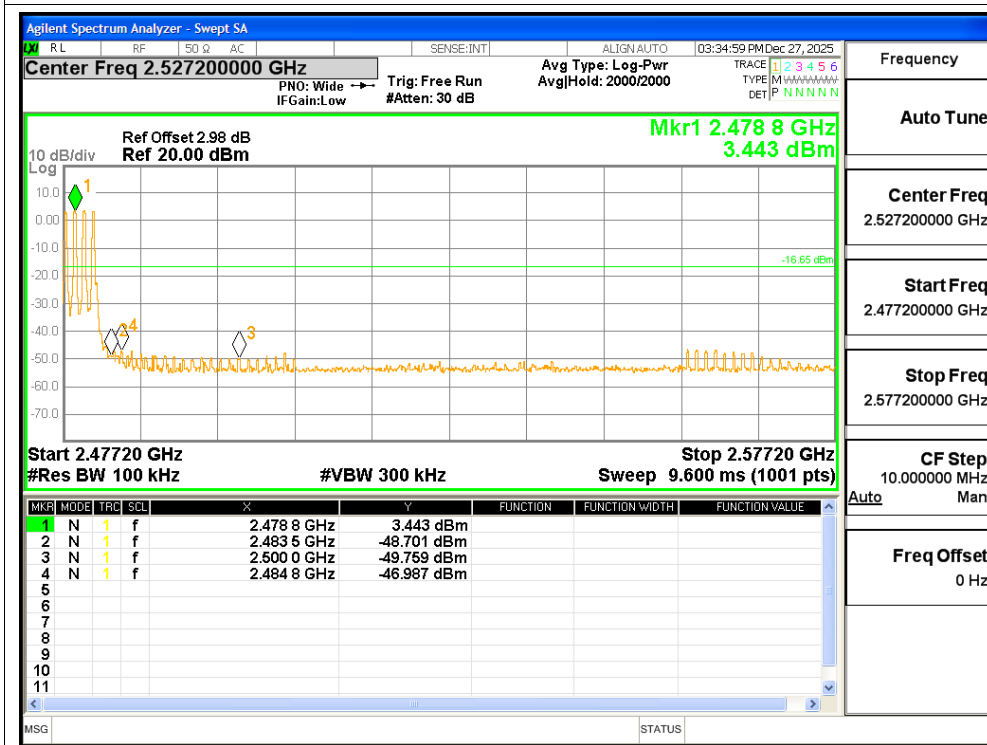
Band Edge(Hopping) NVNT GFSK 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT GFSK 2481.2MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT GFSK 2481.2MHz Ant1 Hopping Emission

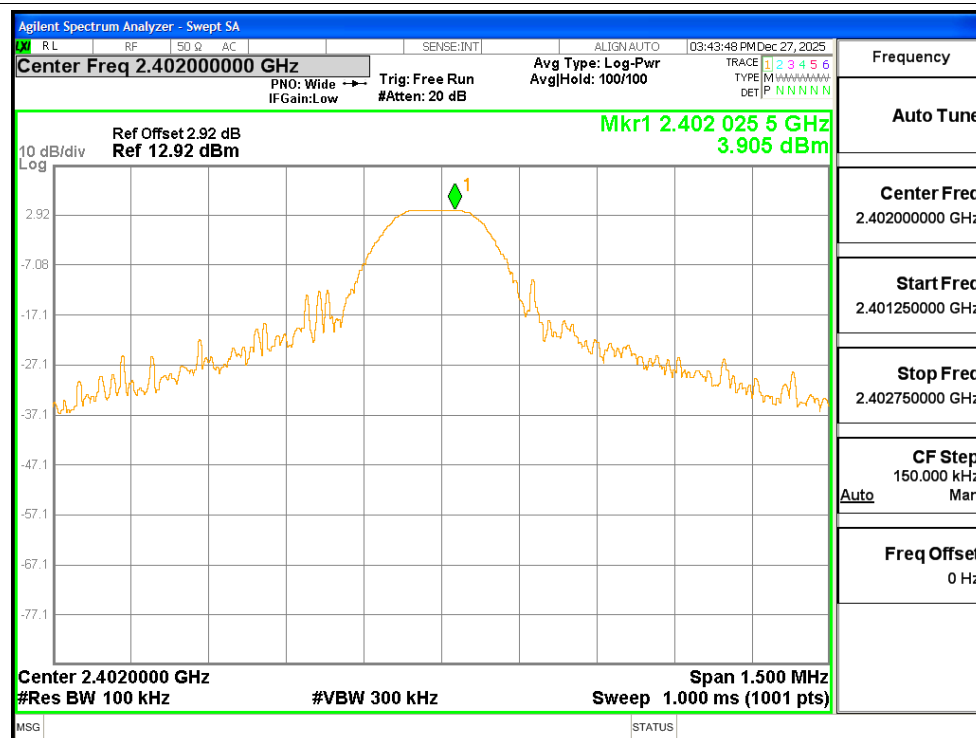


Conducted RF Spurious Emission

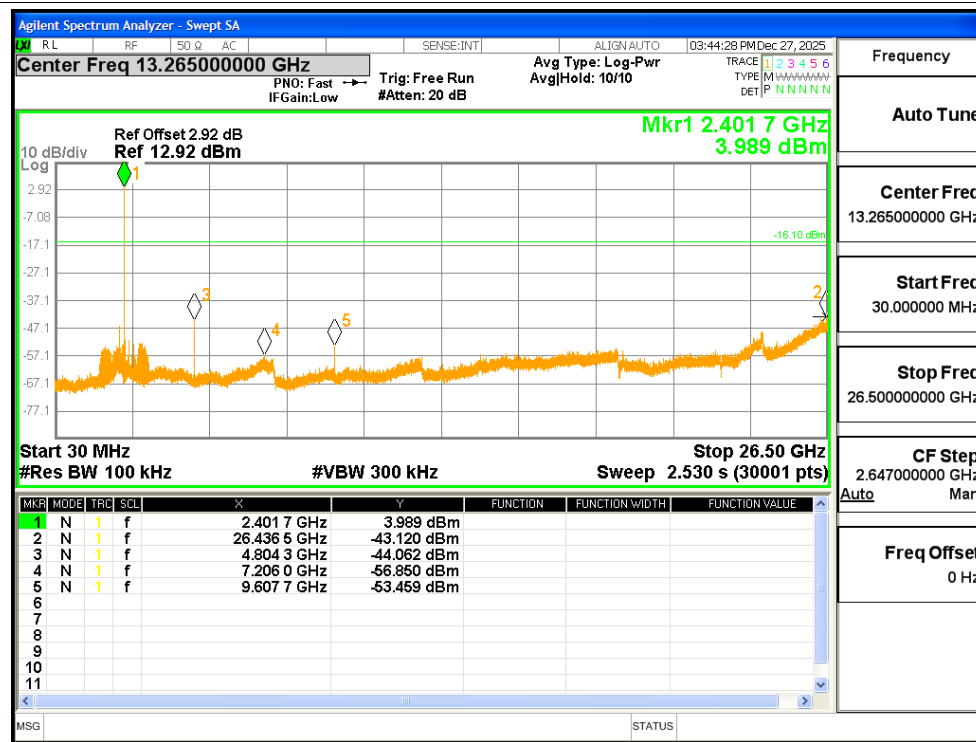
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	GFSK	2402	Ant1	-47.02	-20	Pass
		2441.6		-46.55	-20	Pass
		2481.2		-45.12	-20	Pass

Test Graphs

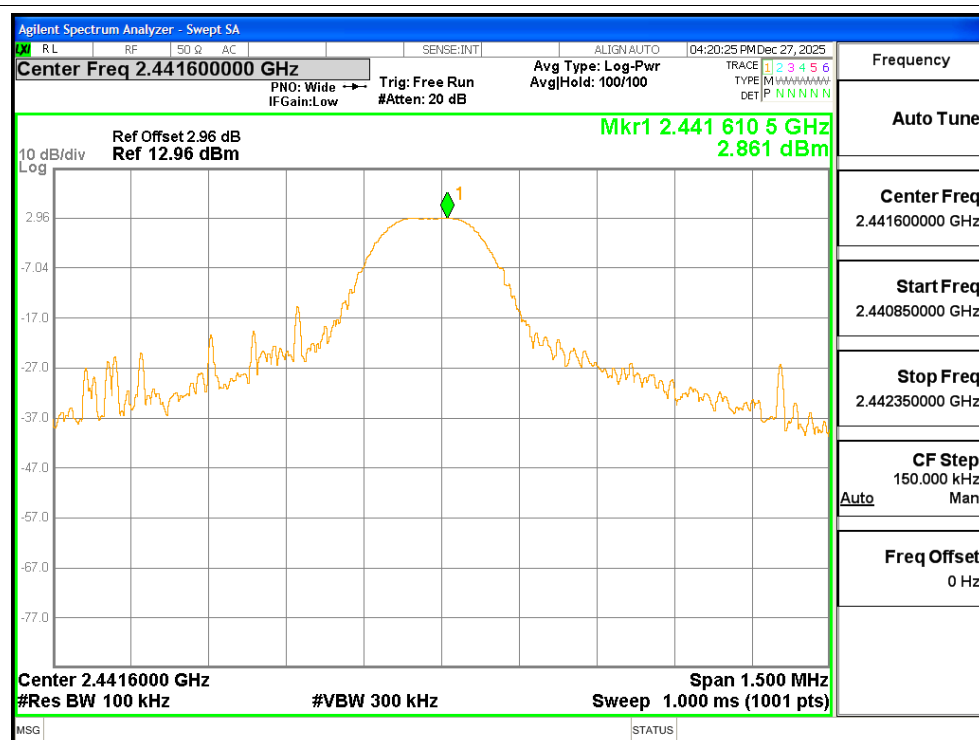
Tx. Spurious NVNT GFSK 2402MHz Ant1 Ref



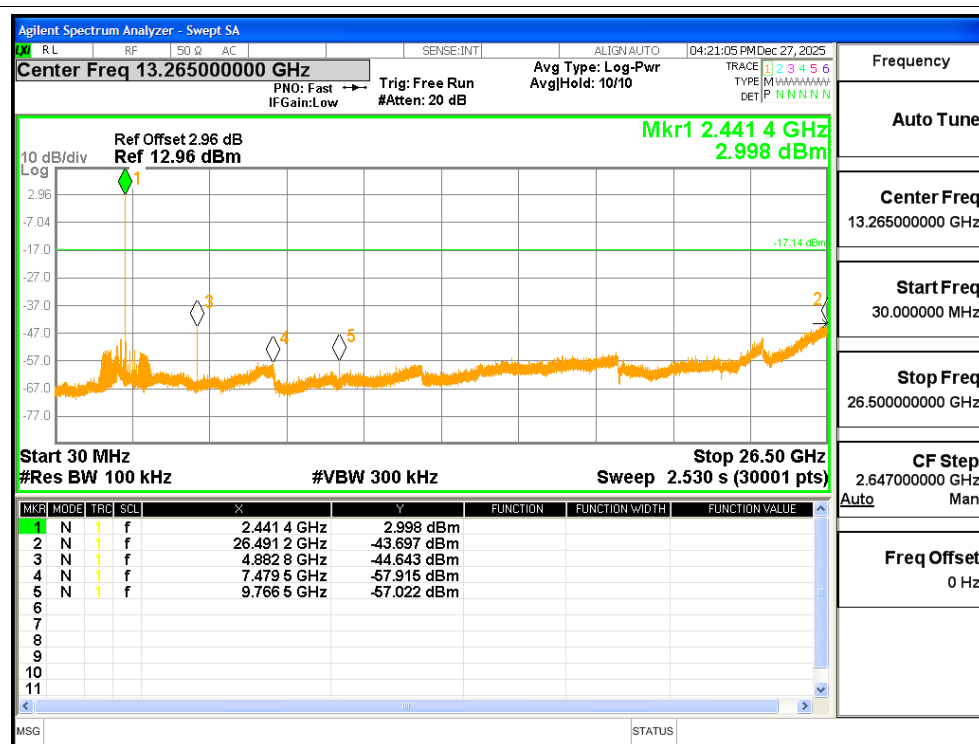
Tx. Spurious NVNT GFSK 2402MHz Ant1 Emission



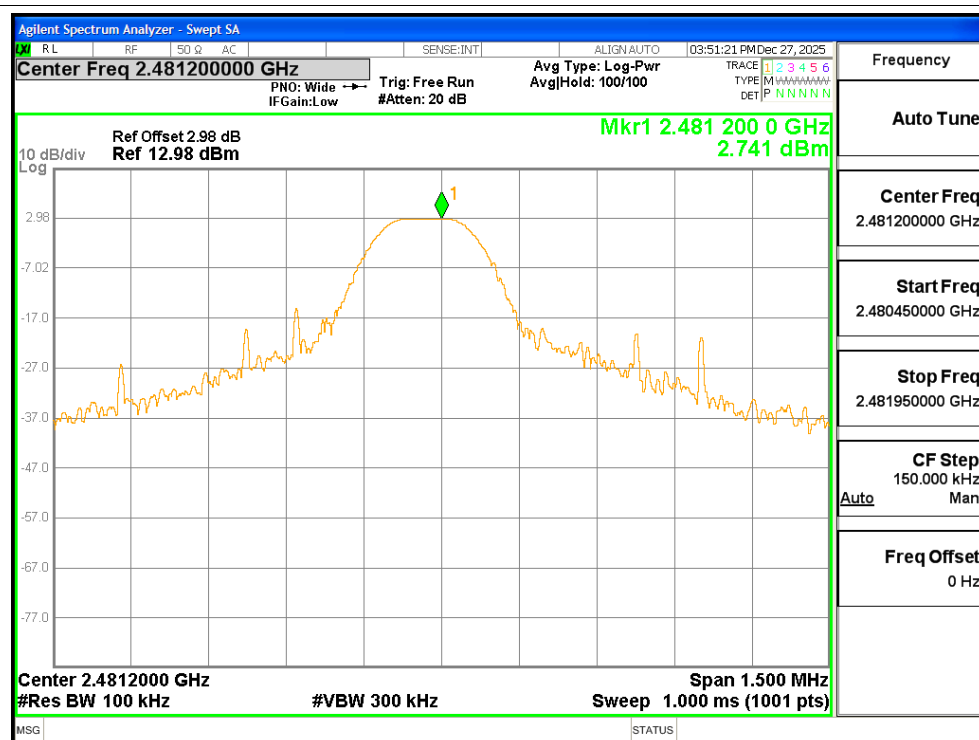
Tx. Spurious NVNT GFSK 2441.6MHz Ant1 Ref



Tx. Spurious NVNT GFSK 2441.6MHz Ant1 Emission



Tx. Spurious NVNT GFSK 2481.2MHz Ant1 Ref



Tx. Spurious NVNT GFSK 2481.2MHz Ant1 Emission

