

Table of Contents

1. -20dB Bandwidth and 99% Occupied Bandwidth	2
2. Peak Output Power	6
3. Spurious Emissions	10
4. Bandedge	13
5. Carrier Frequencies Separation (Hopping).....	17
6. Number of Hopping Channel (Hopping).....	21
7. Dwell Time (Hopping).....	23

FCC ID: 2AWYK-XP-420B

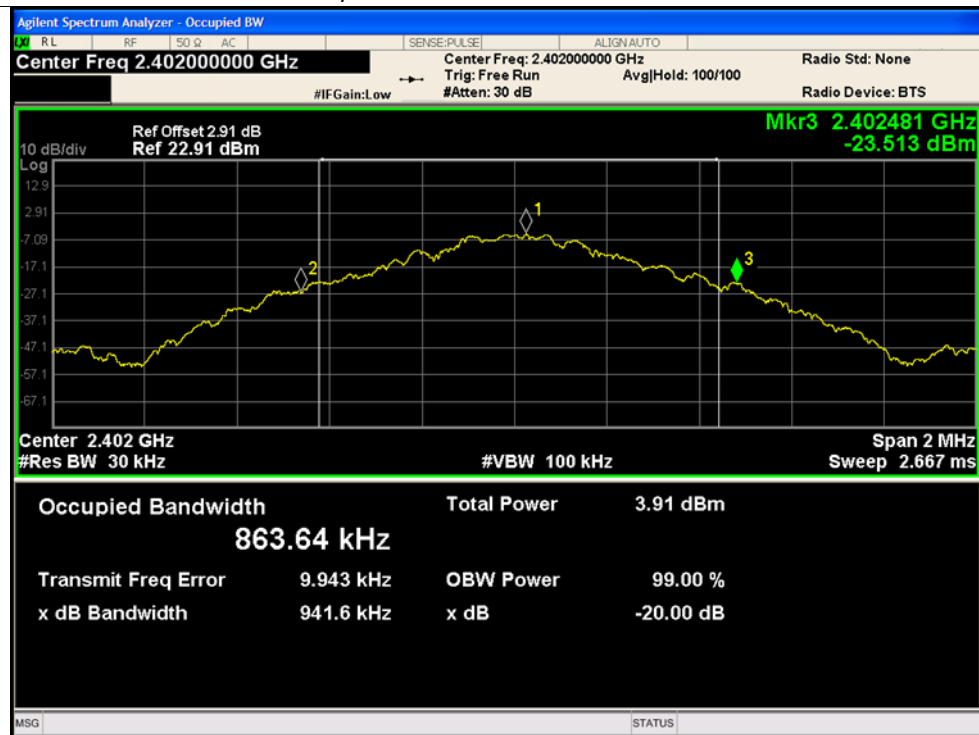
BT Test Data

1. -20dB Bandwidth and 99% Occupied Bandwidth

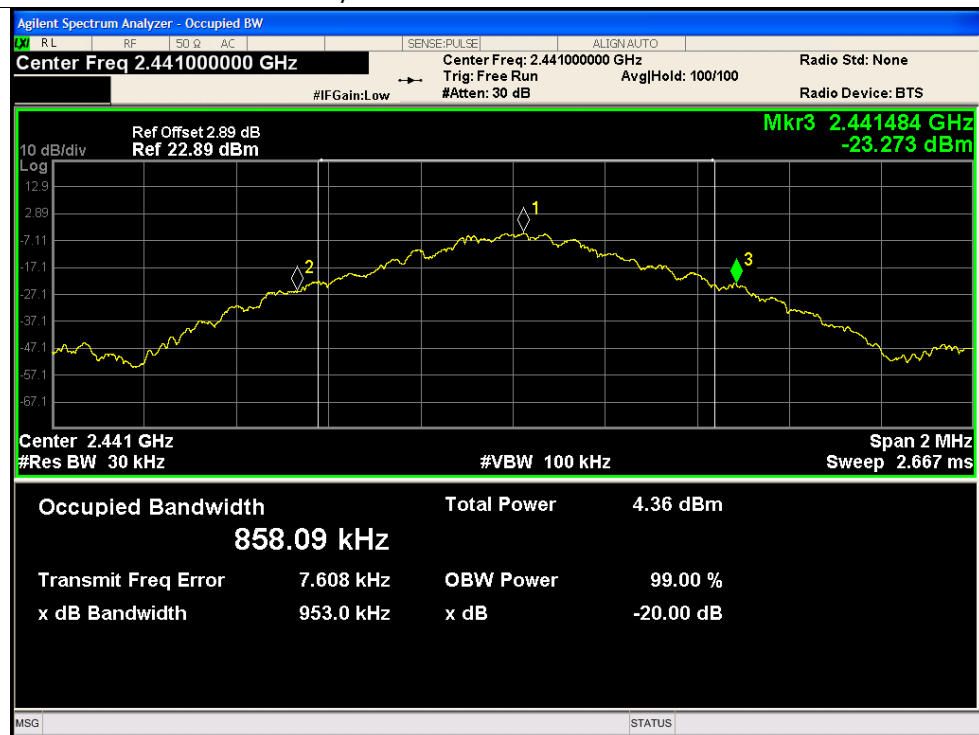
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.942	0.864	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.953	0.858	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.946	0.862	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.36	1.192	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.365	1.192	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.362	1.193	N/A	Pass

Test Graphs

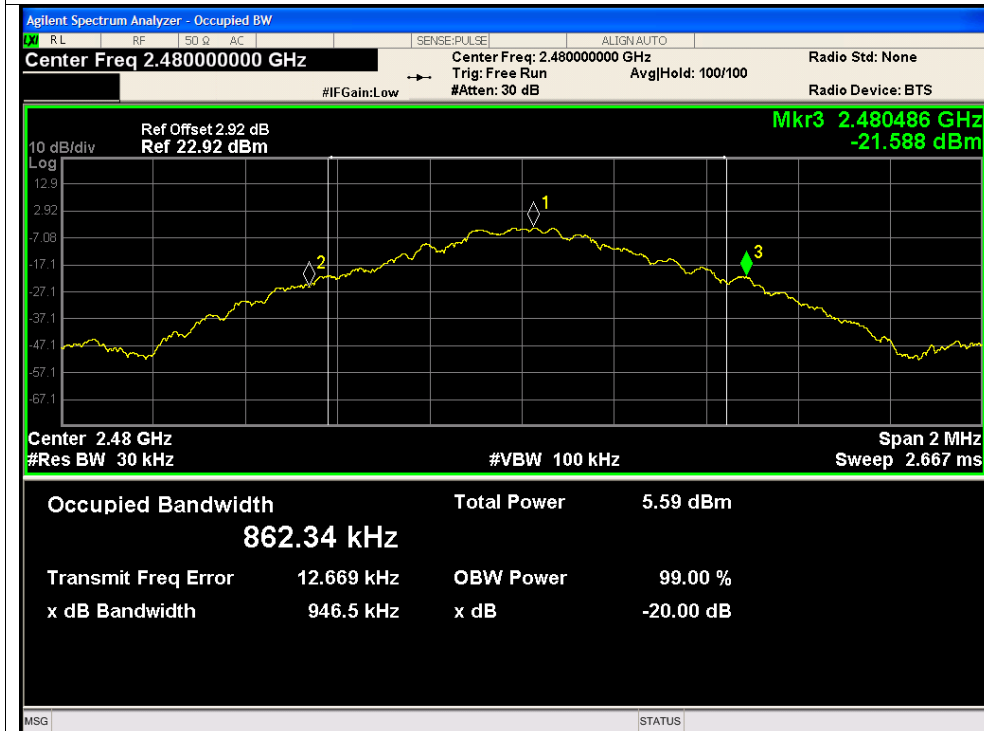
-20dB Bandwidth / 99% Bandwidth NVNT 1-DH5 2402MHz Ant1



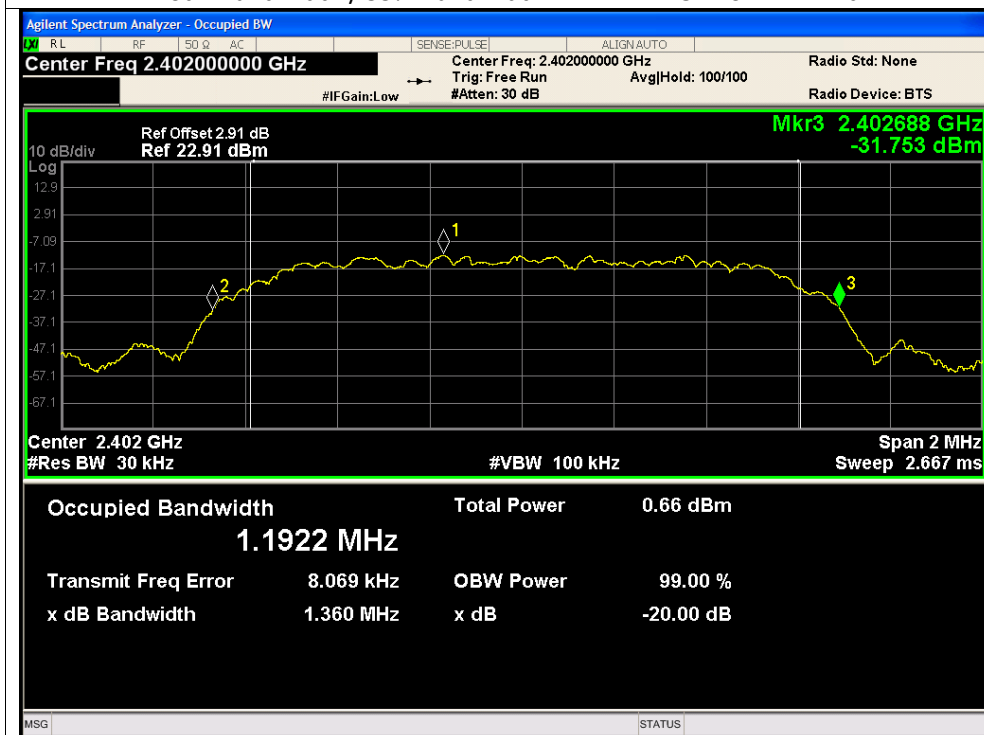
-20dB Bandwidth / 99% Bandwidth NVNT 1-DH5 2441MHz Ant1



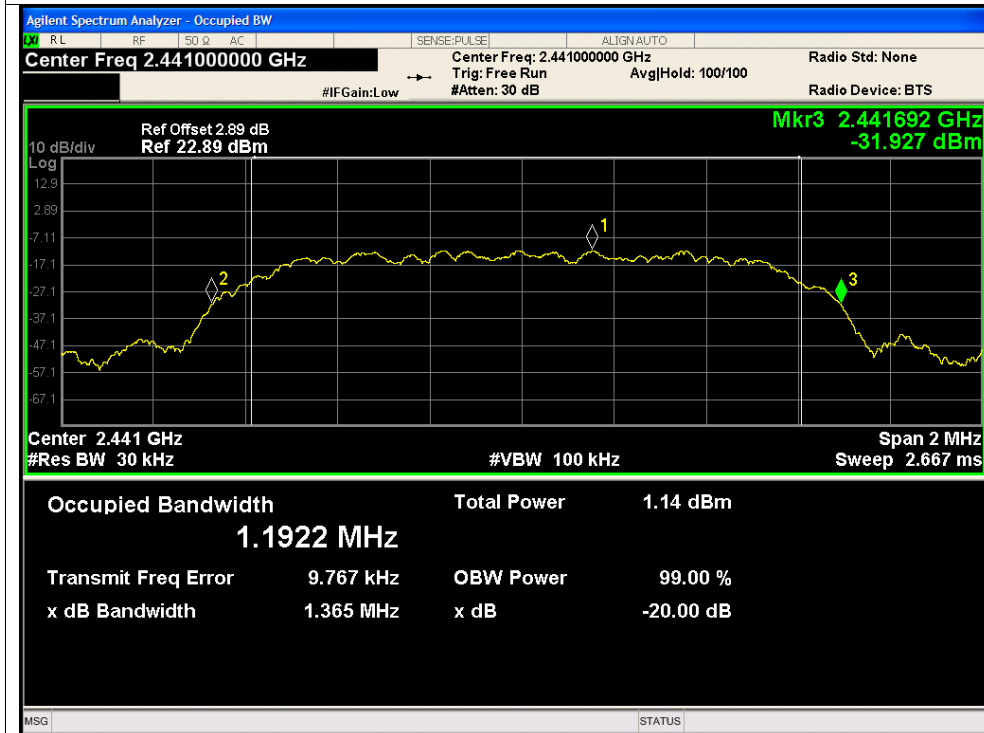
-20dB Bandwidth / 99% Bandwidth NVNT 1-DH5 2480MHz Ant1



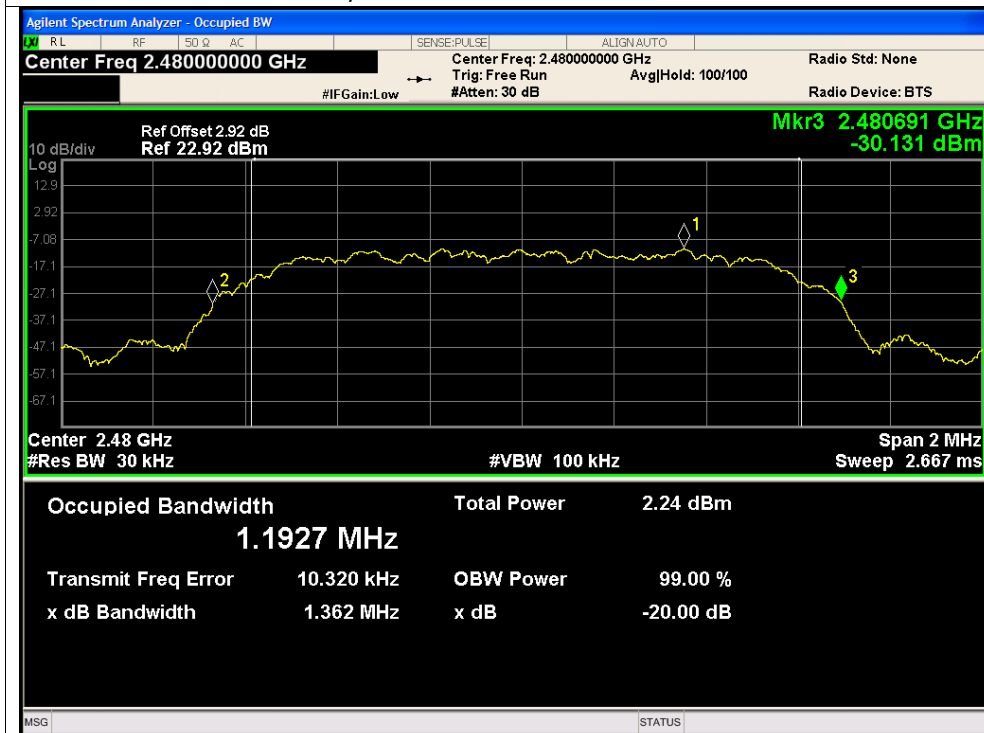
-20dB Bandwidth / 99% Bandwidth NVNT 2-DH5 2402MHz Ant1



-20dB Bandwidth / 99% Bandwidth NVNT 2-DH5 2441MHz Ant1



-20dB Bandwidth / 99% Bandwidth NVNT 2-DH5 2480MHz Ant1

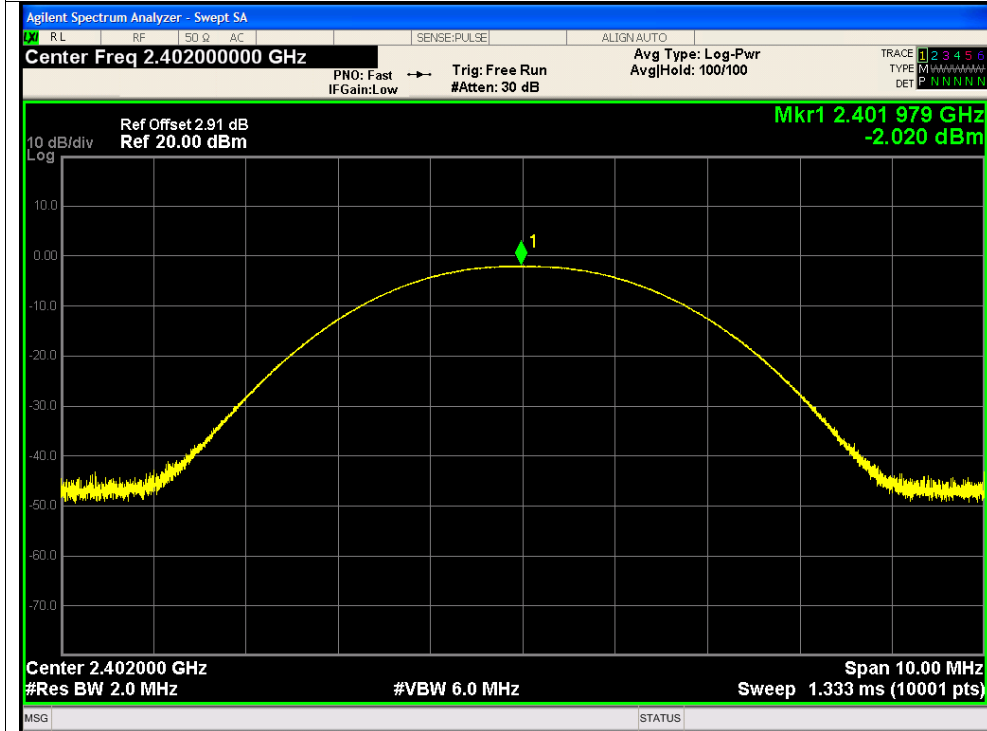


2. Peak Output Power

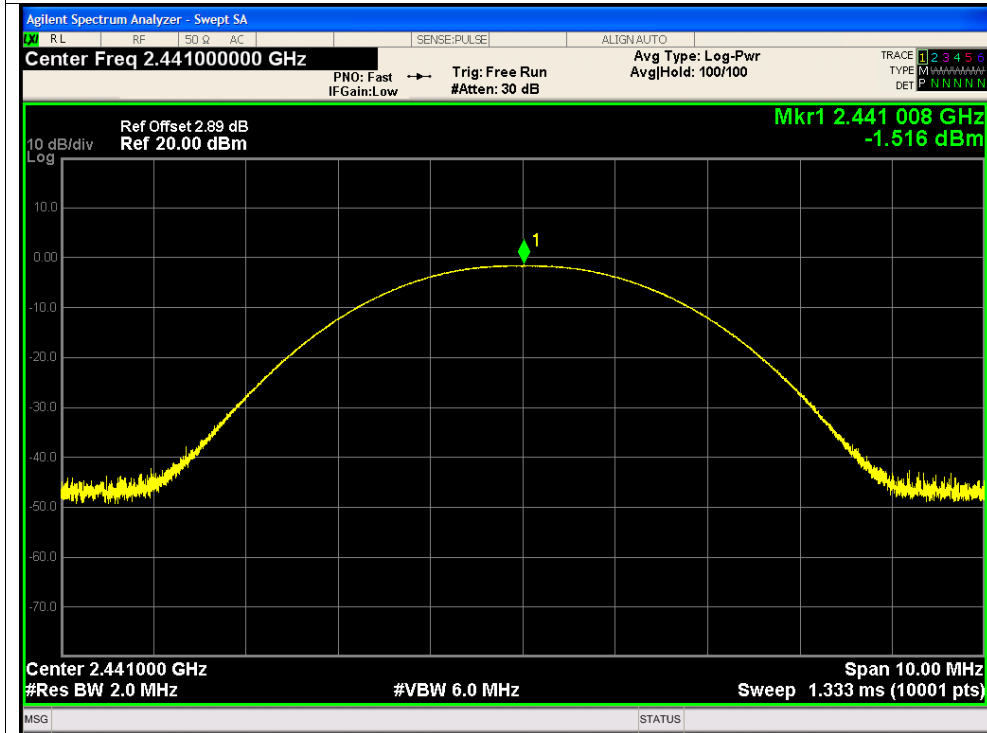
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.02	21	Pass
NVNT	1-DH5	2441	Ant1	-1.52	21	Pass
NVNT	1-DH5	2480	Ant1	-0.4	21	Pass
NVNT	2-DH5	2402	Ant1	-2.84	21	Pass
NVNT	2-DH5	2441	Ant1	-2.47	21	Pass
NVNT	2-DH5	2480	Ant1	-1.28	21	Pass

Test Graphs

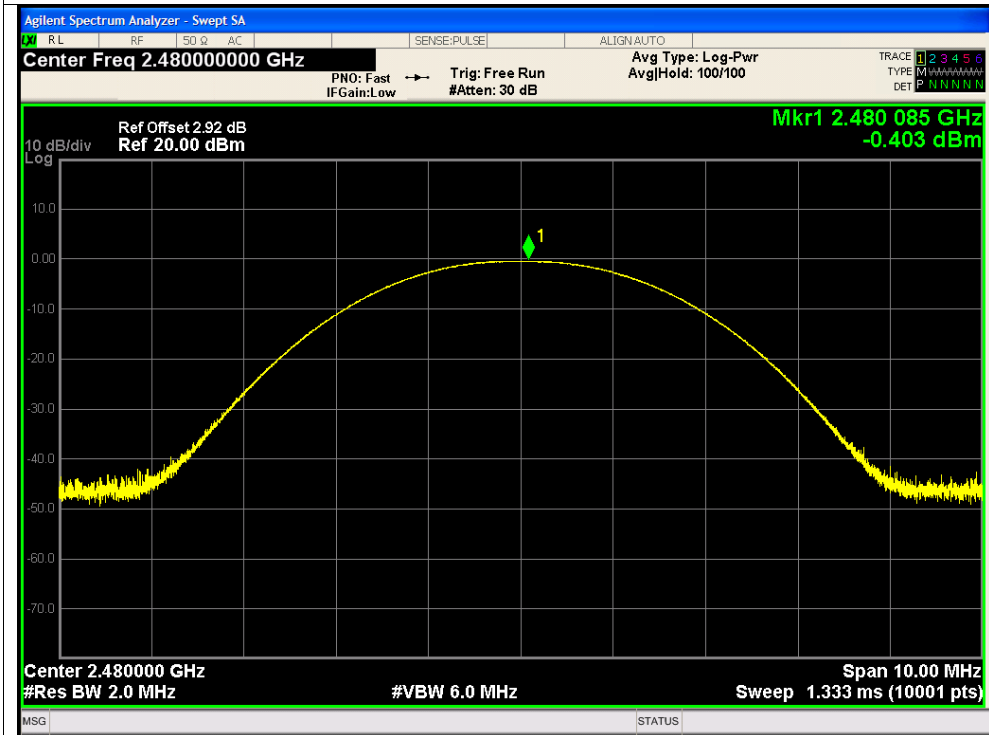
Power NVNT 1-DH5 2402MHz Ant1



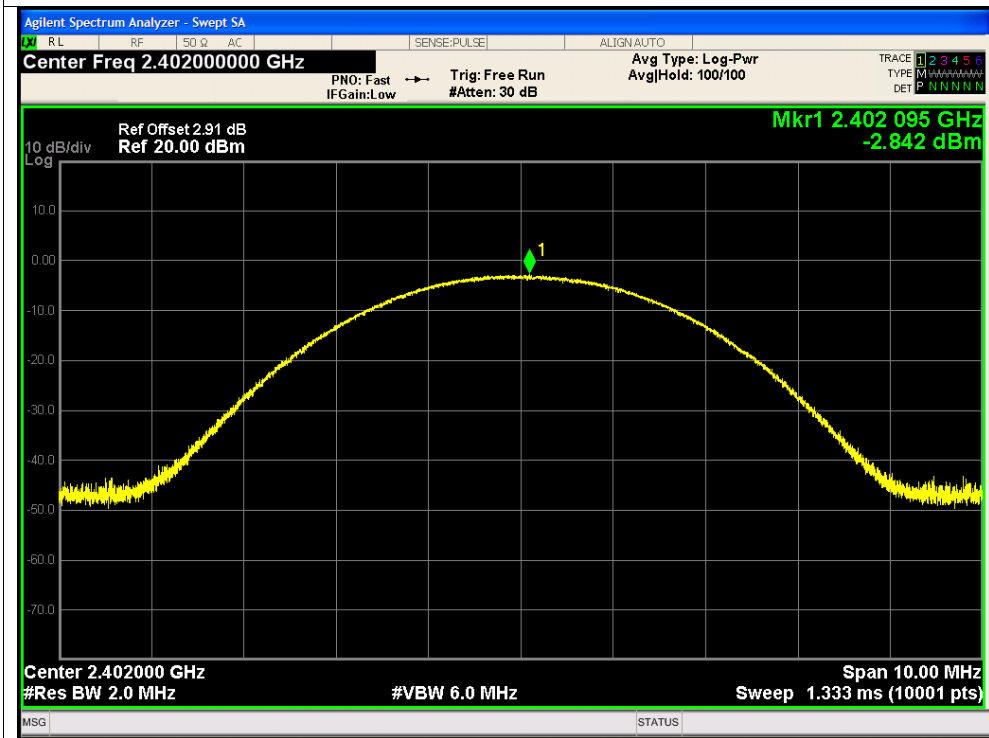
Power NVNT 1-DH5 2441MHz Ant1



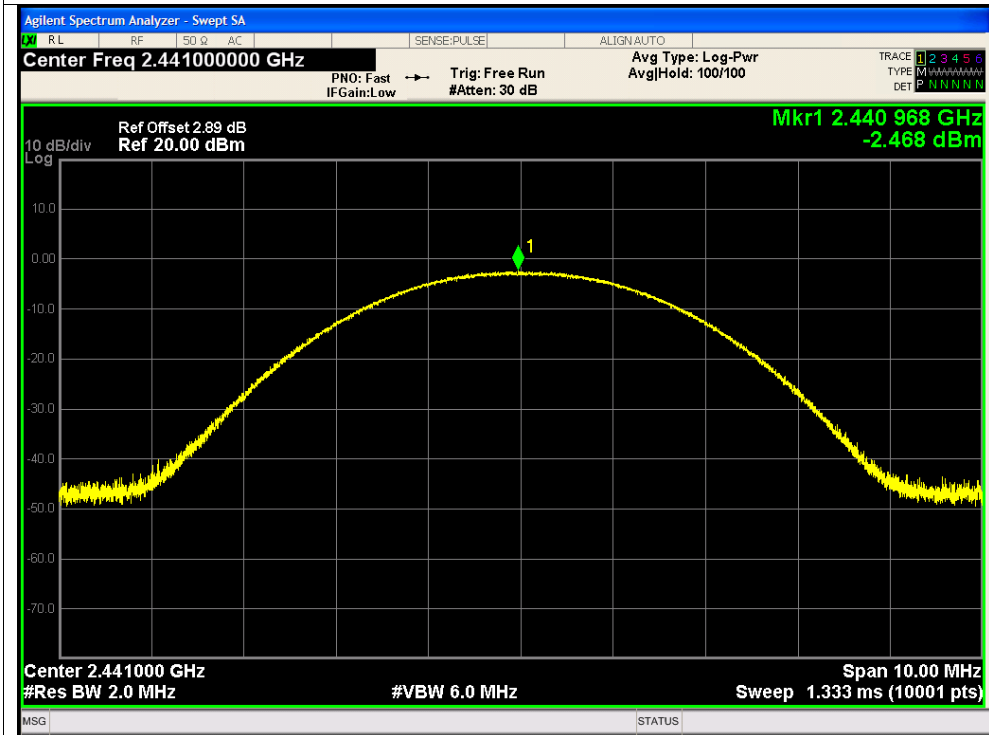
Power NVNT 1-DH5 2480MHz Ant1



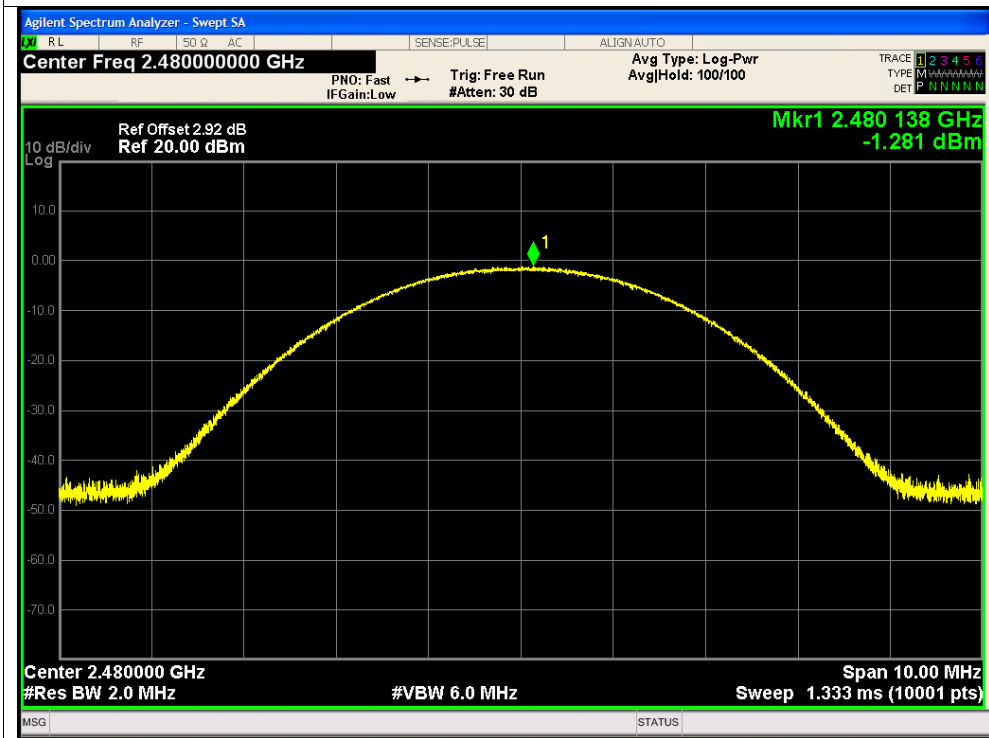
Power NVNT 2-DH5 2402MHz Ant1



Power NVNT 2-DH5 2441MHz Ant1

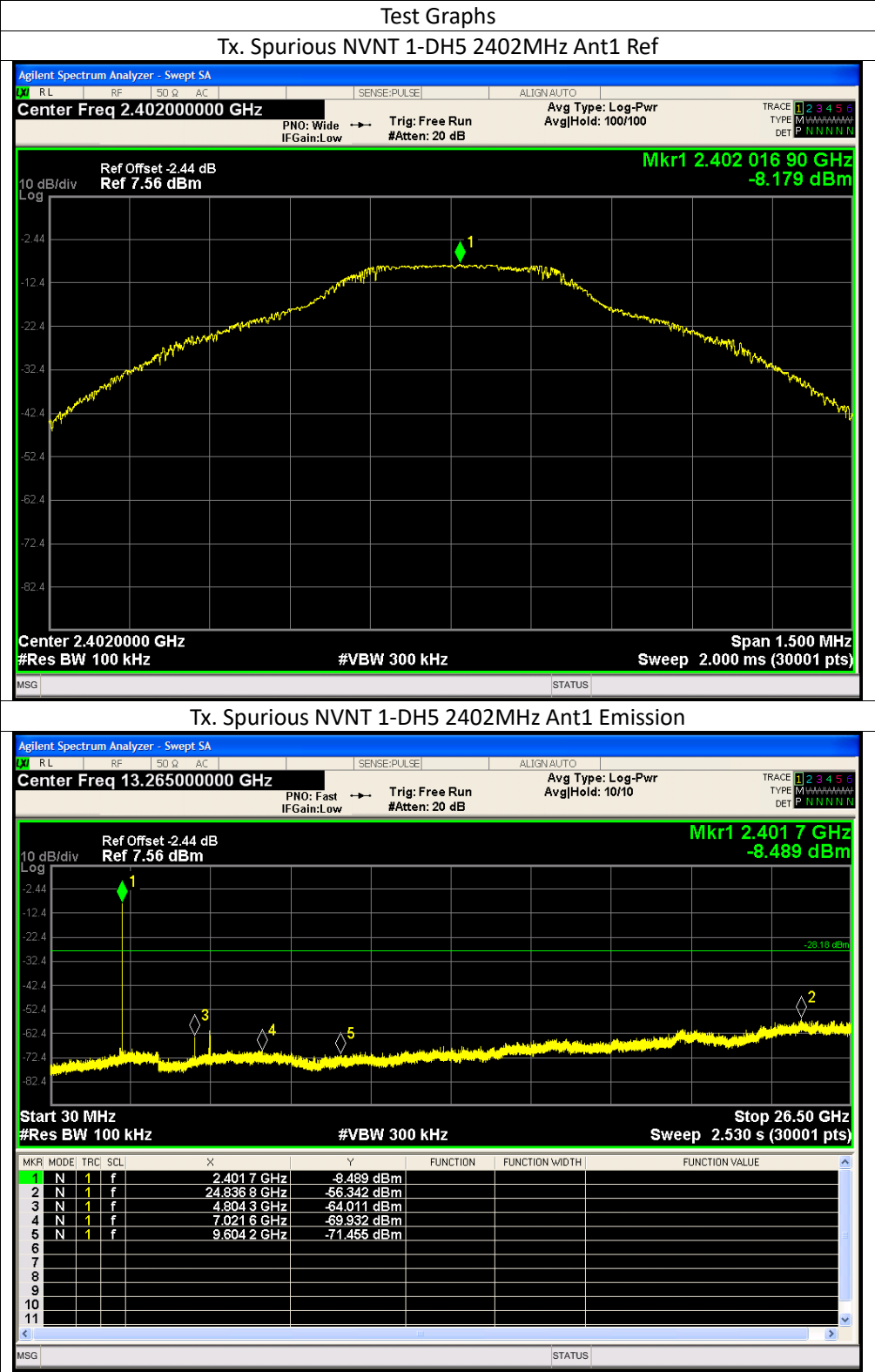


Power NVNT 2-DH5 2480MHz Ant1

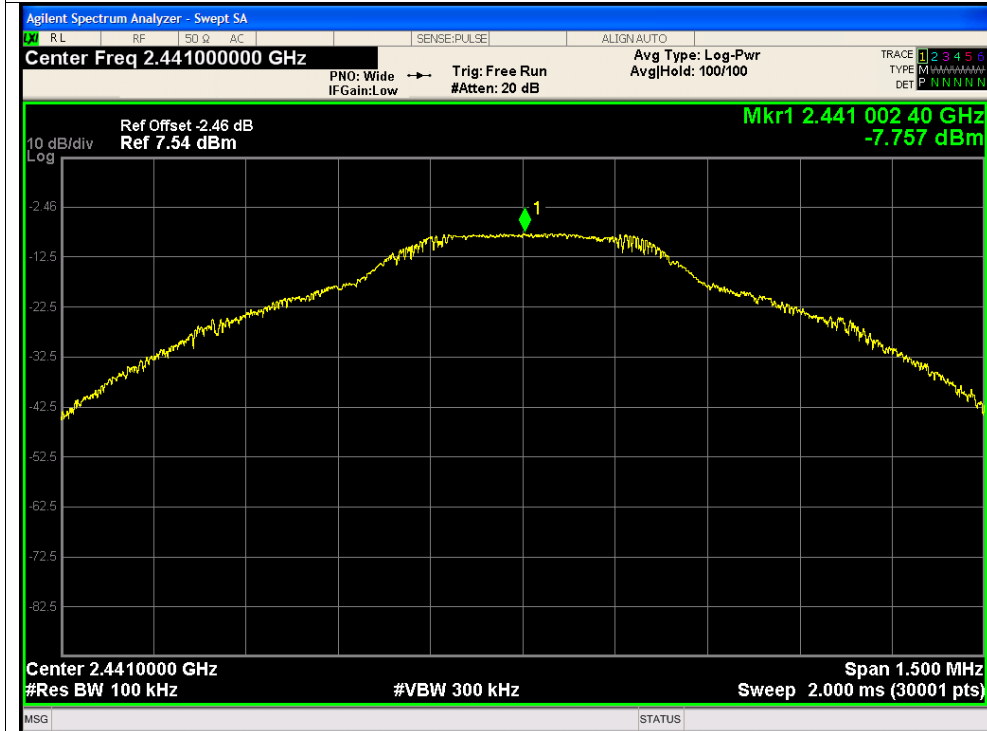


3. Spurious Emissions

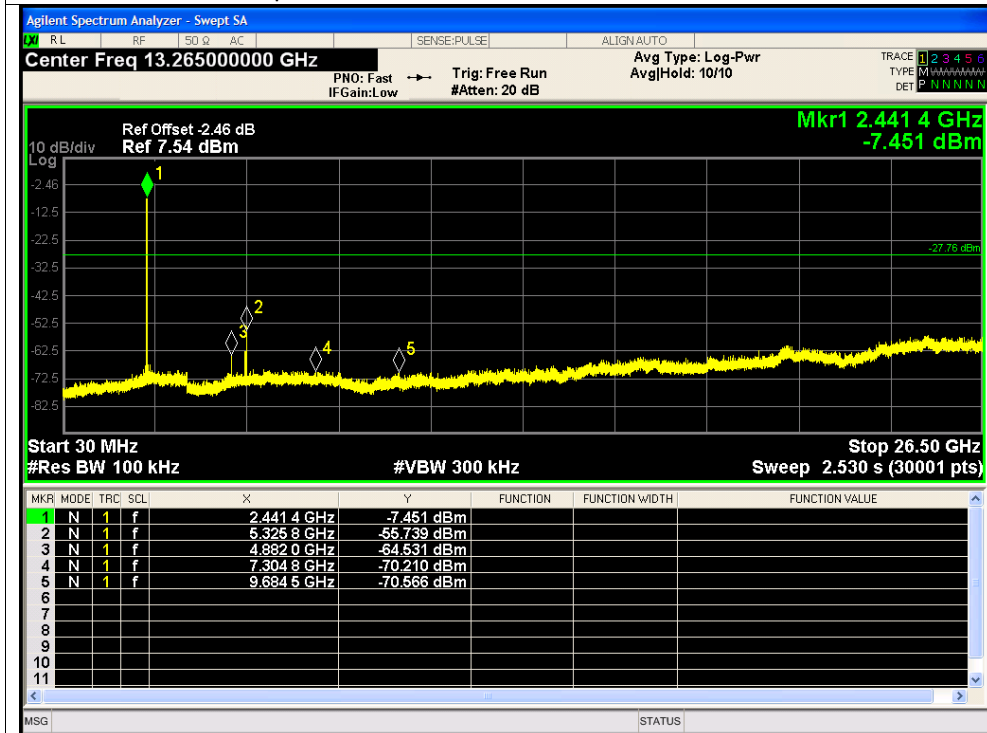
All the modes have tested and recorded the worst mode(GFSK) in the report



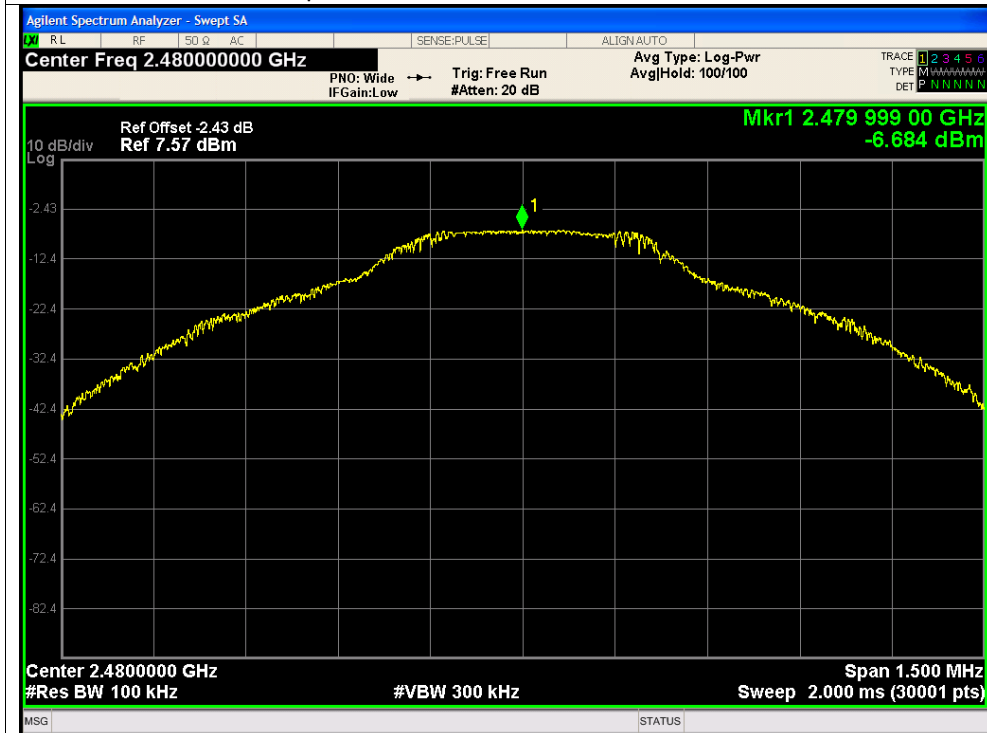
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



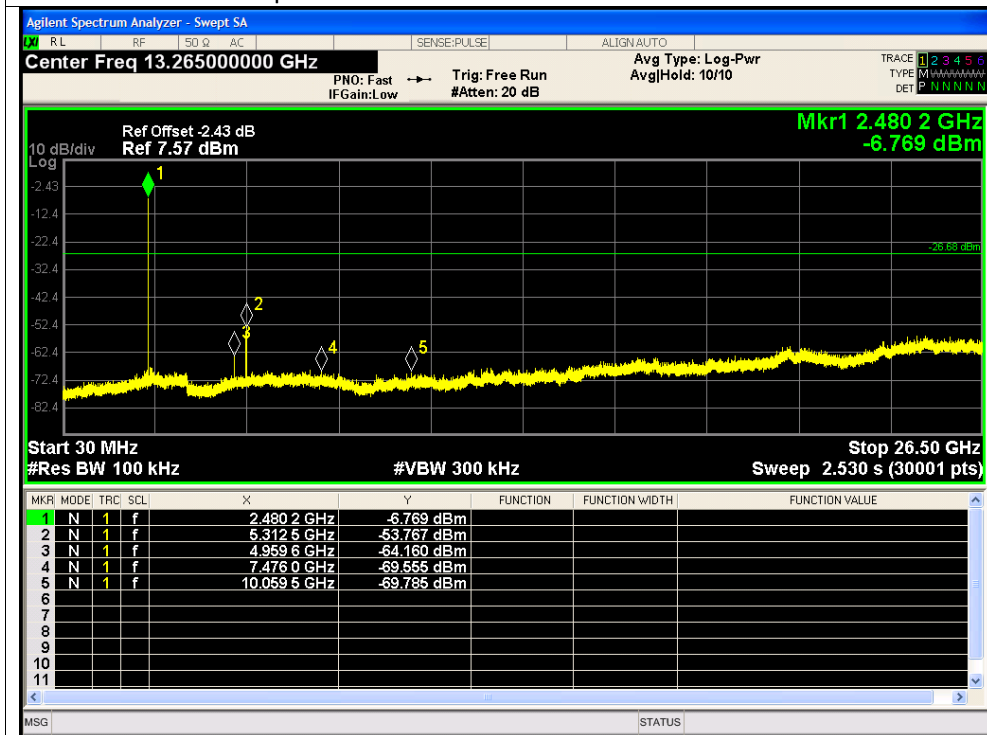
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

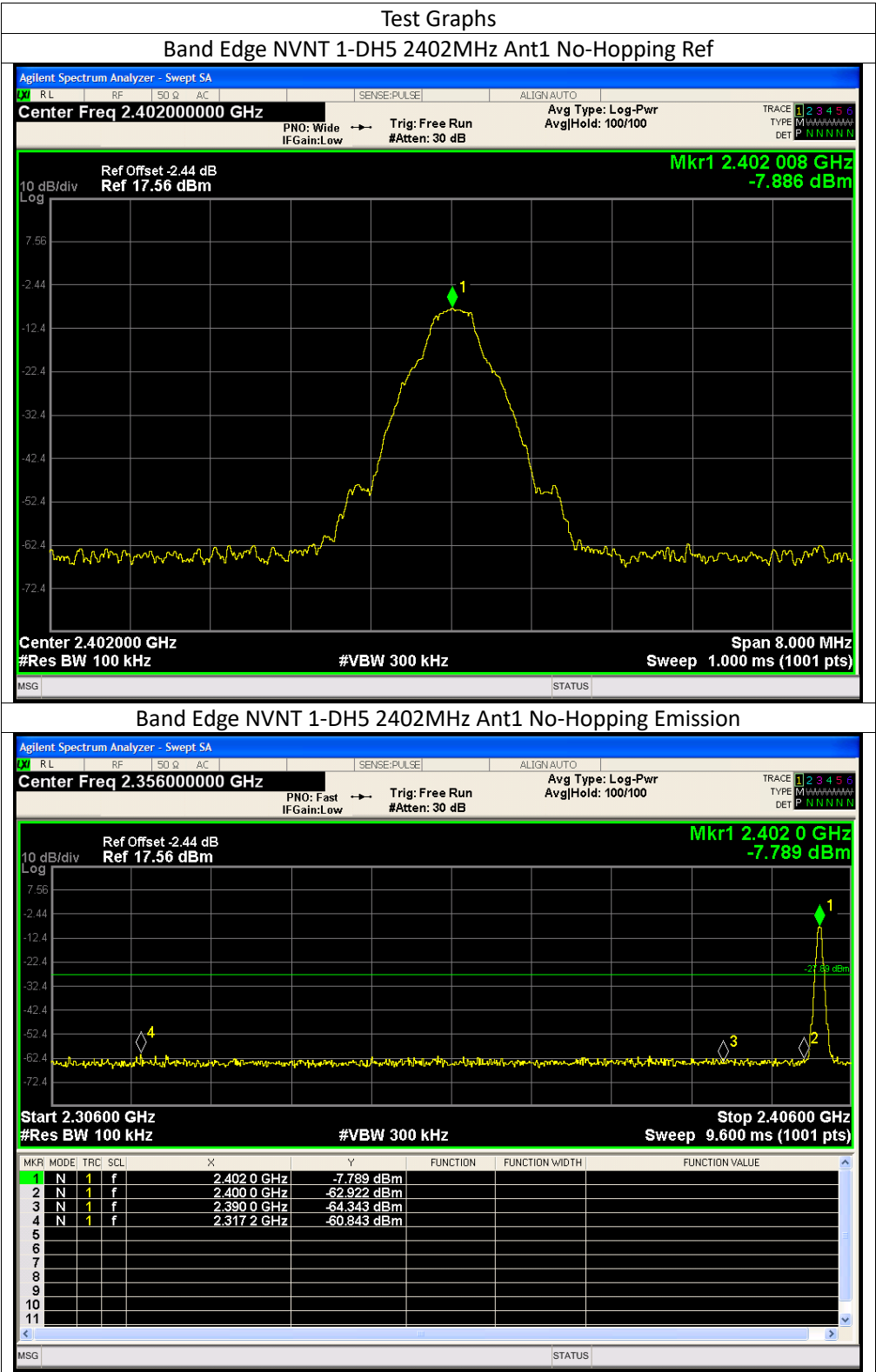


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

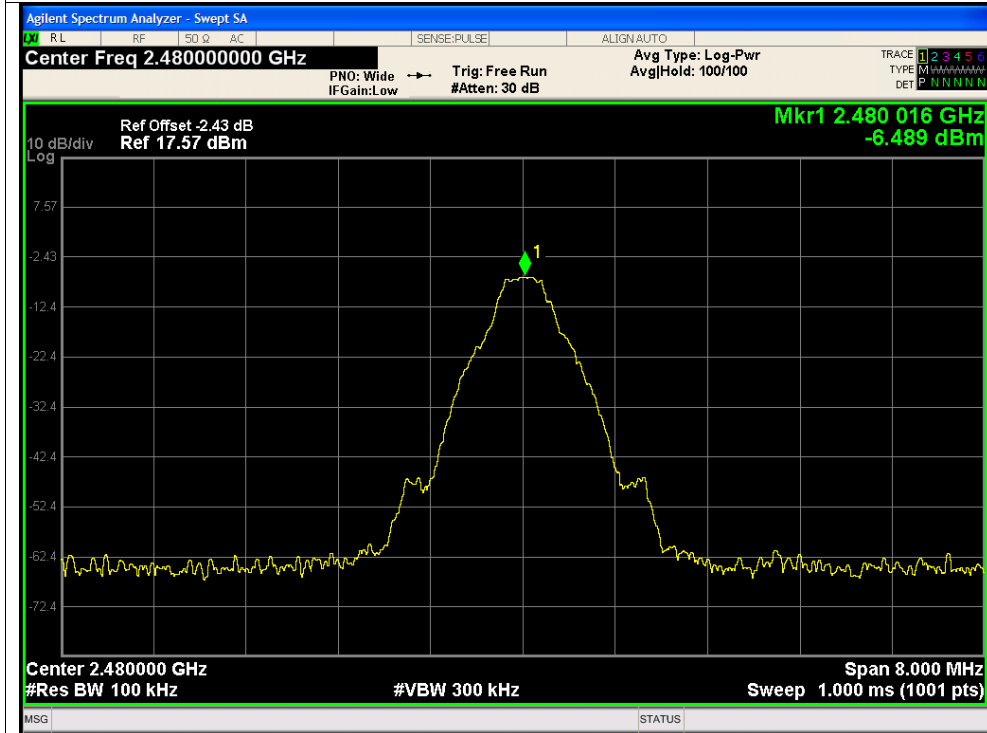


4. Bandedge

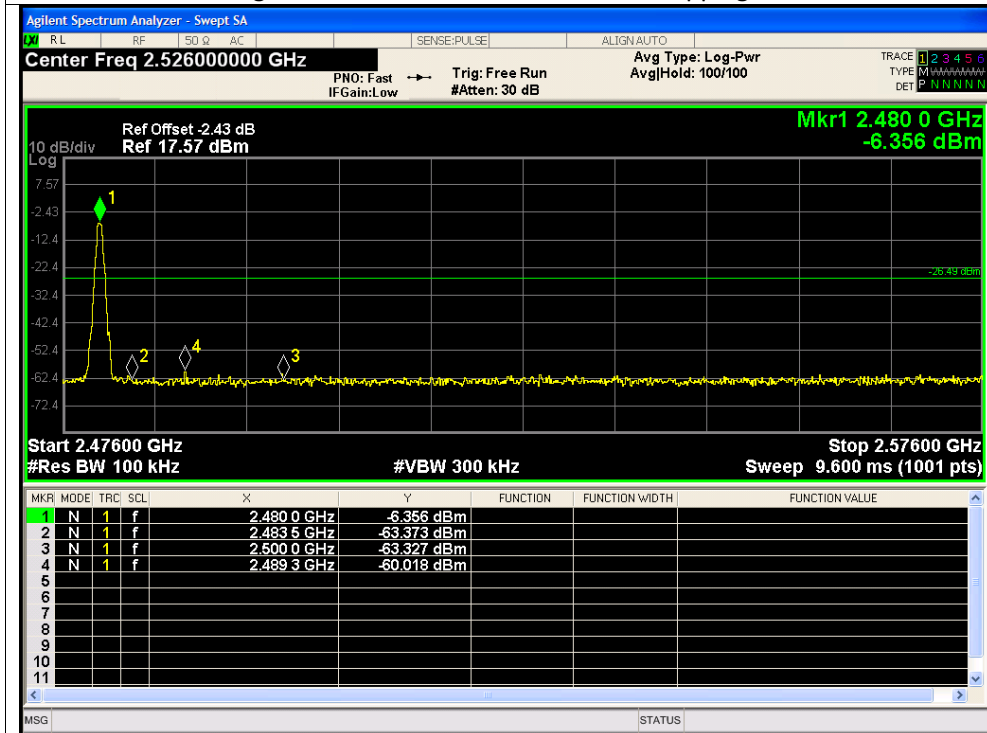
All the modes have tested and recorded the worst mode(GFSK) in the report



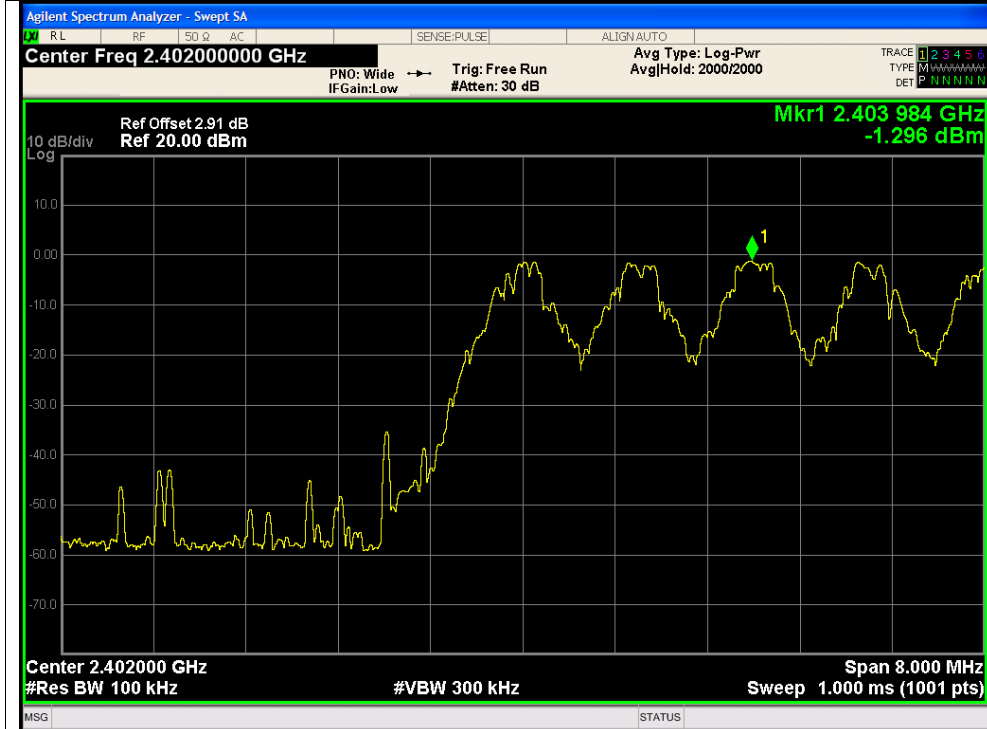
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



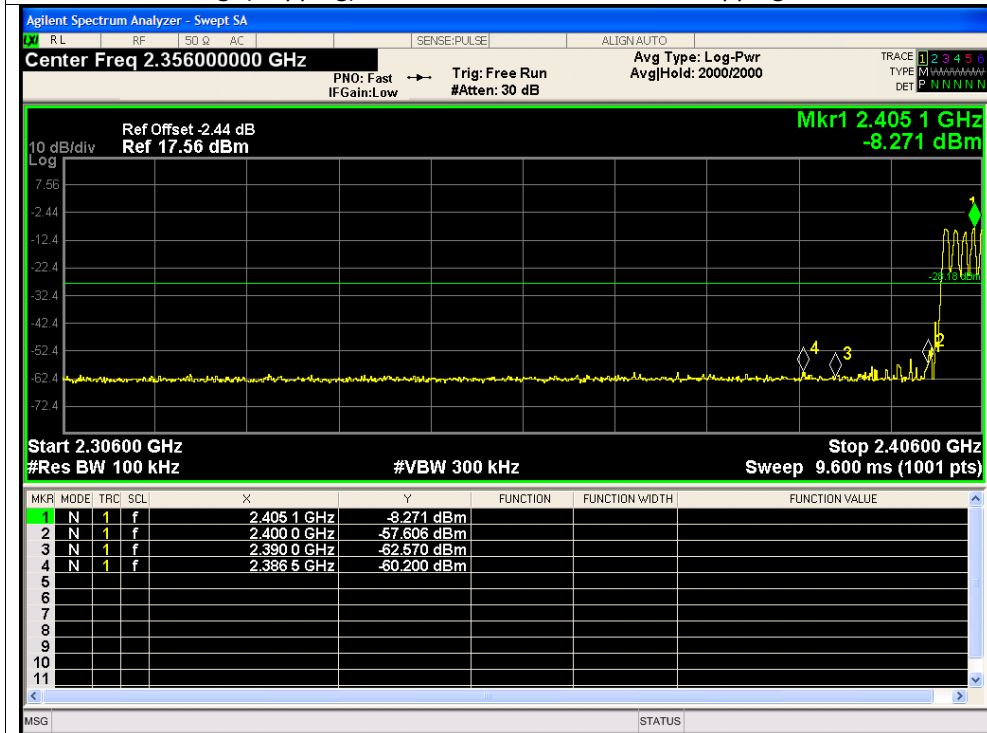
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



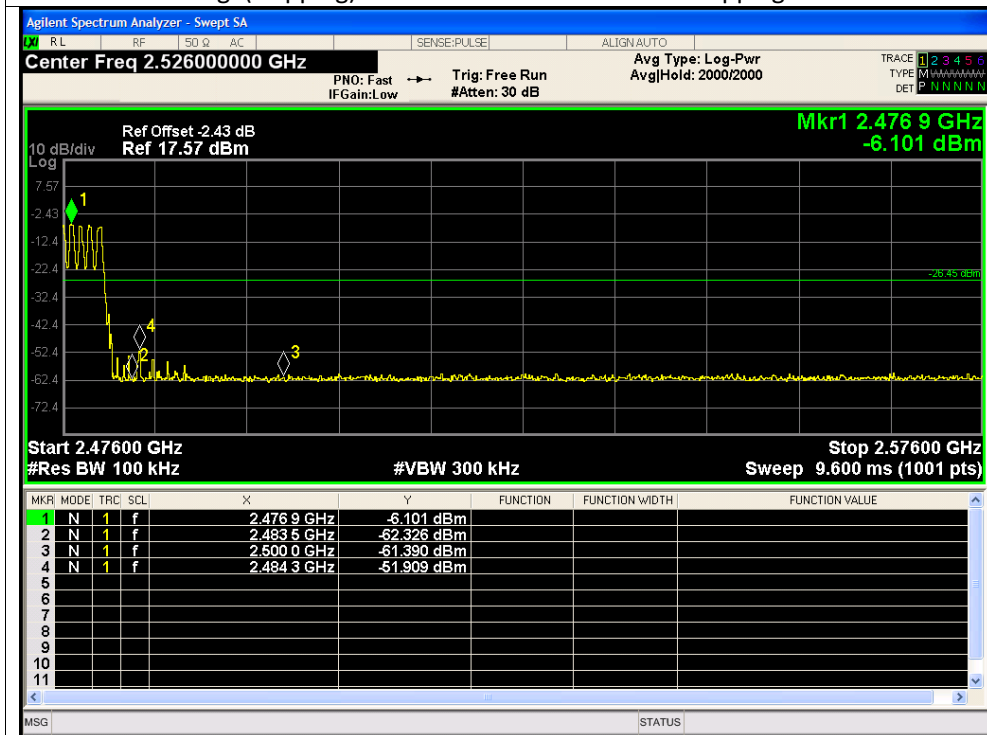
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

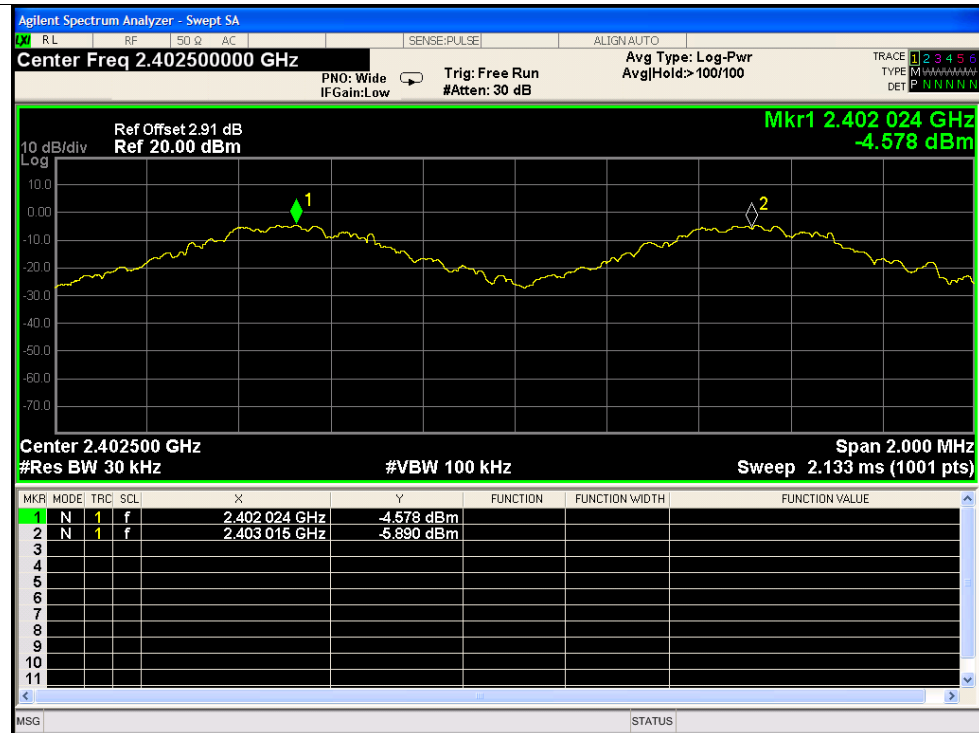


5. Carrier Frequencies Separation (Hopping)

Condition	Mode	Antenna	Channel Frequency (MHz)	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	Carrier Frequencies Separation (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402	2402.024	2403.015	0.991	>0.628	Pass
NVNT	1-DH5	Ant1	2441	2441.014	2442.016	1.002	>0.635	Pass
NVNT	1-DH5	Ant1	2480	2479.015	2480.016	1.001	>0.631	Pass
NVNT	2-DH5	Ant1	2402	2402.032	2402.94	0.951	>0.907	Pass
NVNT	2-DH5	Ant1	2441	2441.079	2442.01	0.931	>0.910	Pass
NVNT	2-DH5	Ant1	2480	2478.94	2480.033	1.093	>0.908	Pass
Note: Limit = 20dB bandwidth * 2/3								

Test Graphs

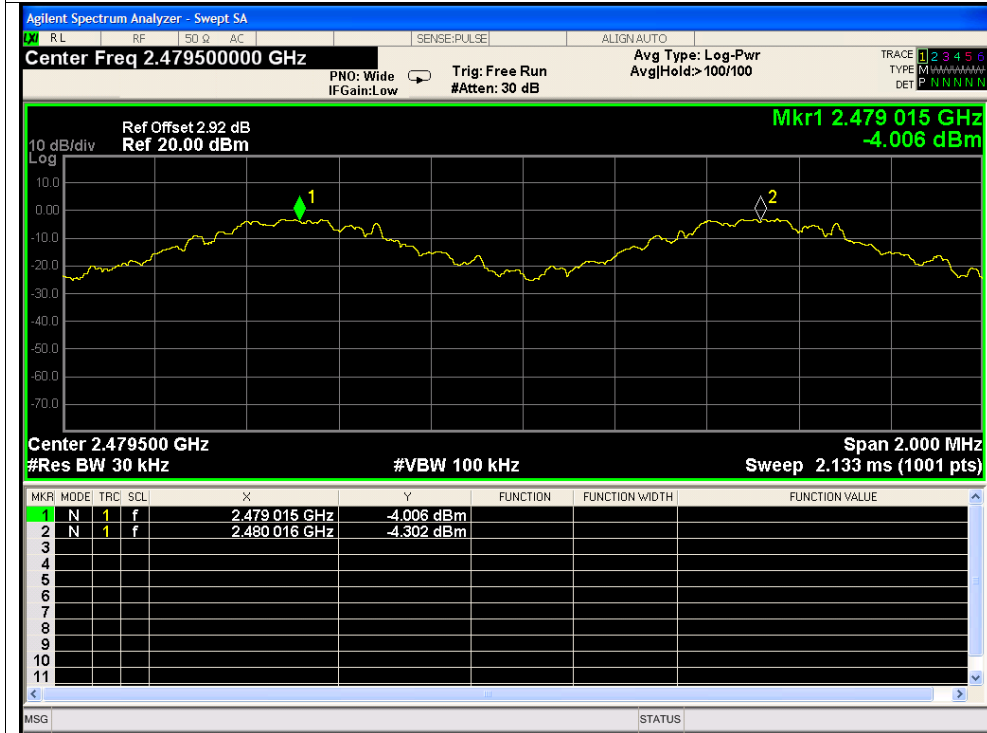
CFS NVNT 1-DH5 2402MHz Ant1



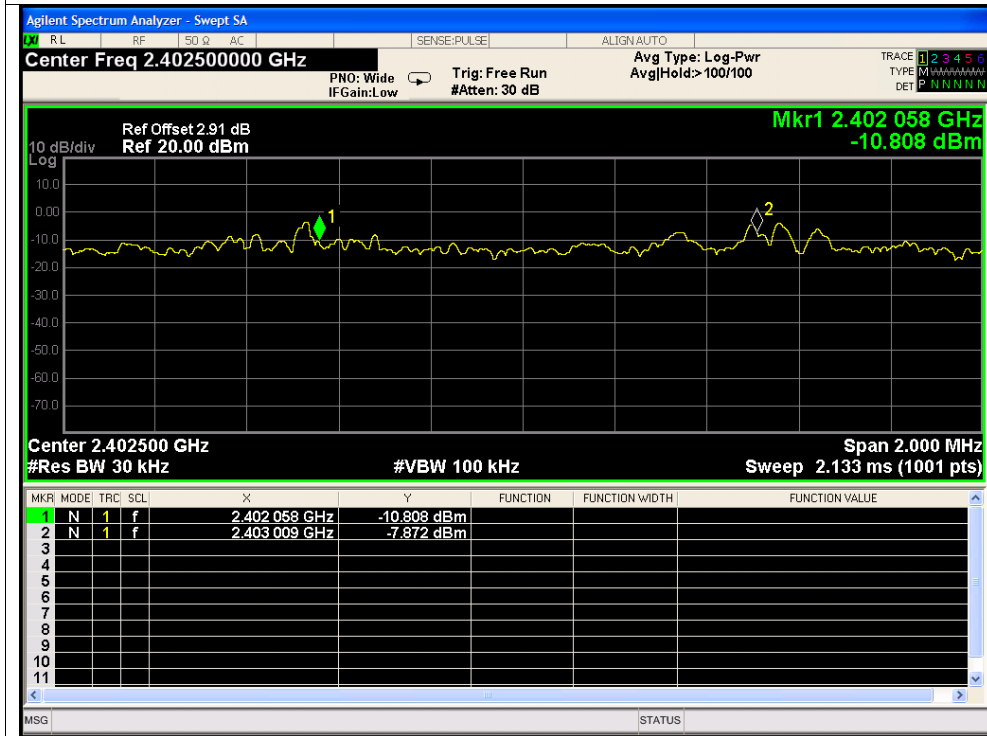
CFS NVNT 1-DH5 2441MHz Ant1



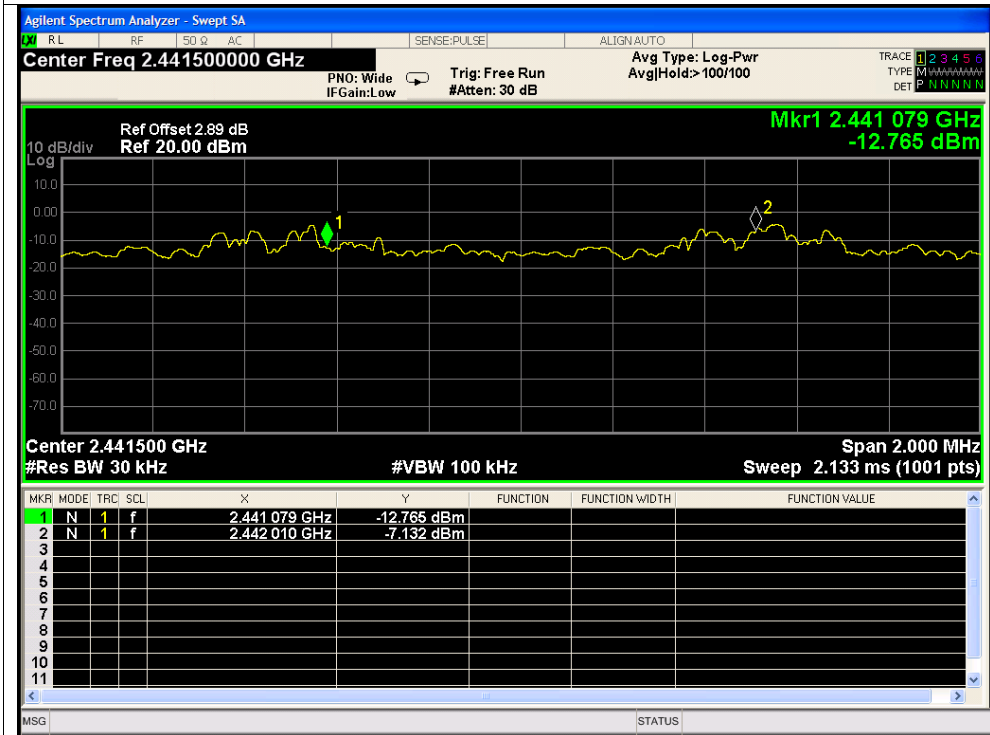
CFS NVNT 1-DH5 2480MHz Ant1



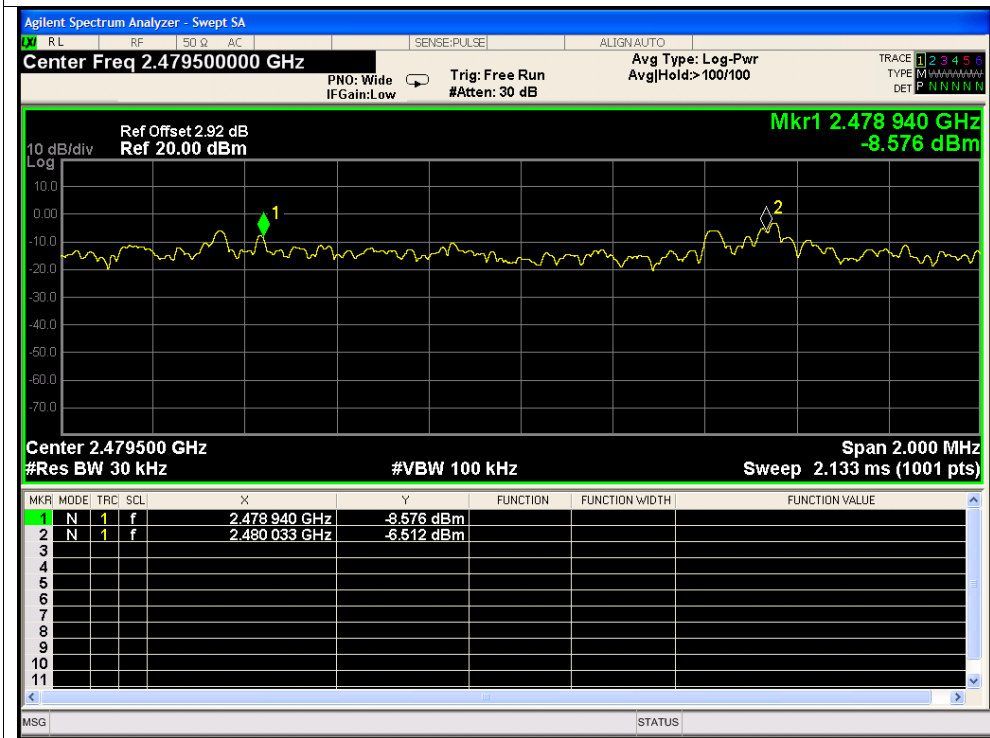
CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2441MHz Ant1



CFS NVNT 2-DH5 2480MHz Ant1

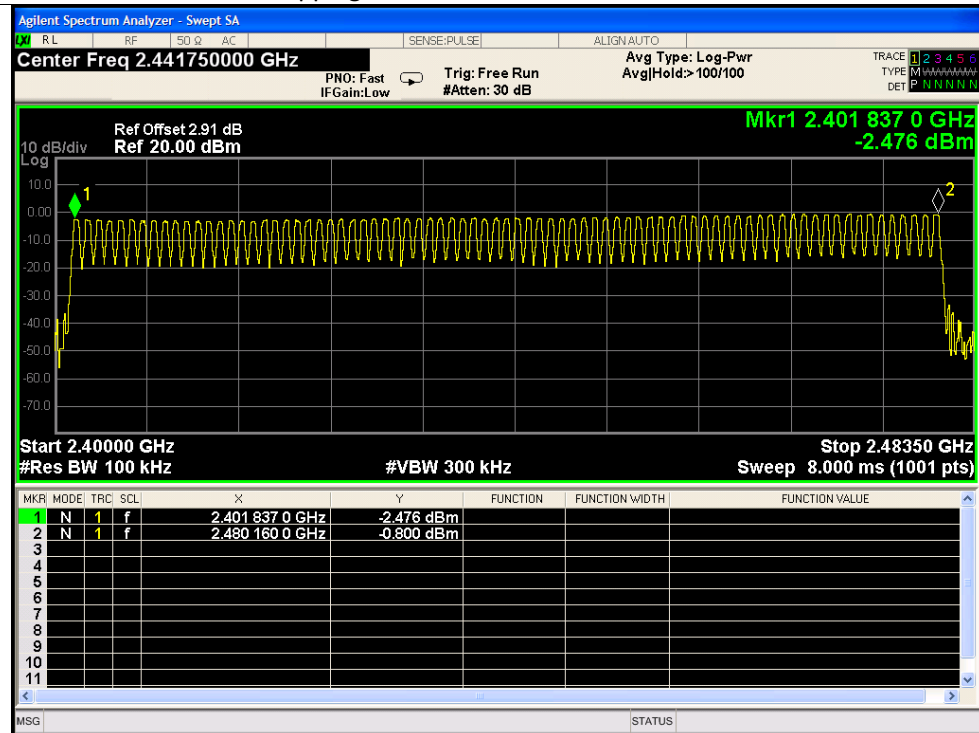


6. Number of Hopping Channel (Hopping)

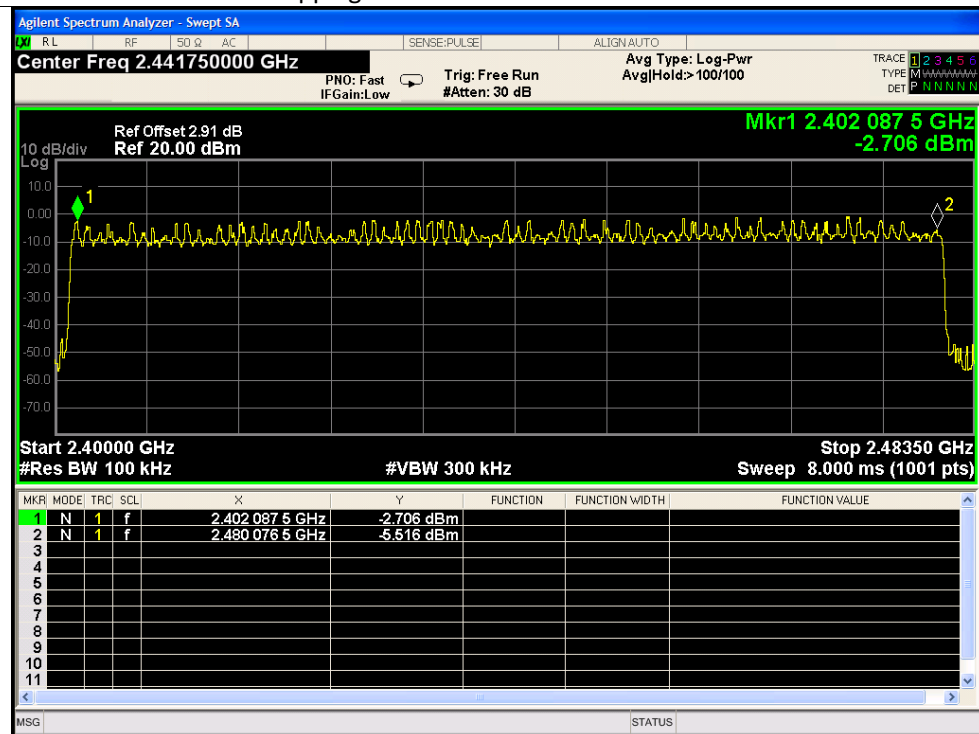
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



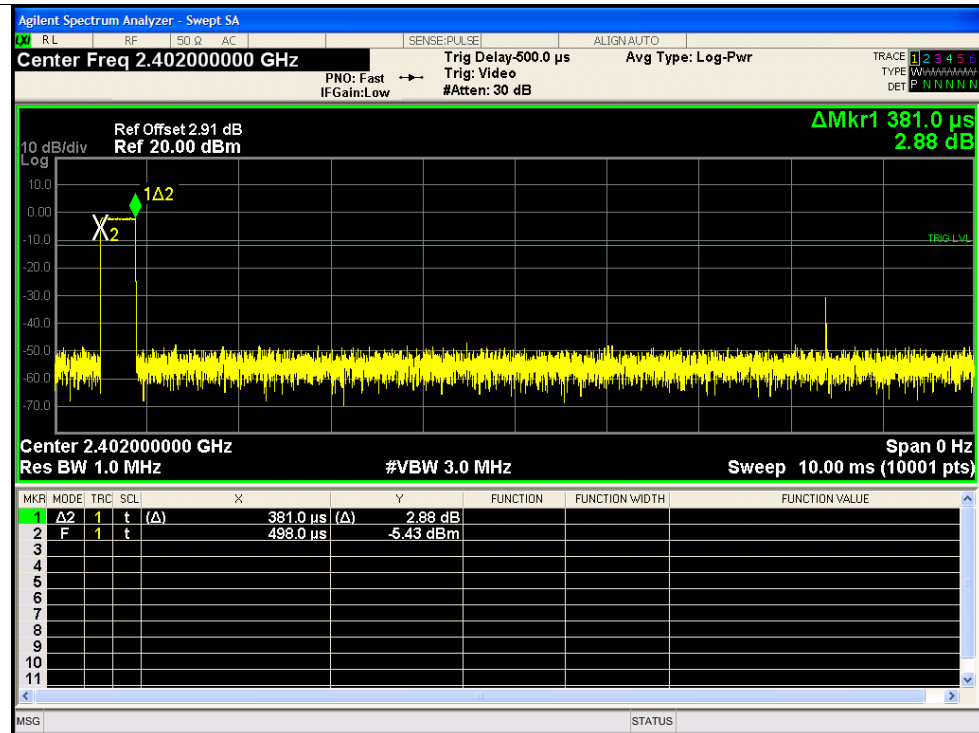
7. Dwell Time (Hopping)

All the modes have tested and recorded the worst mode (GFSK) in the report

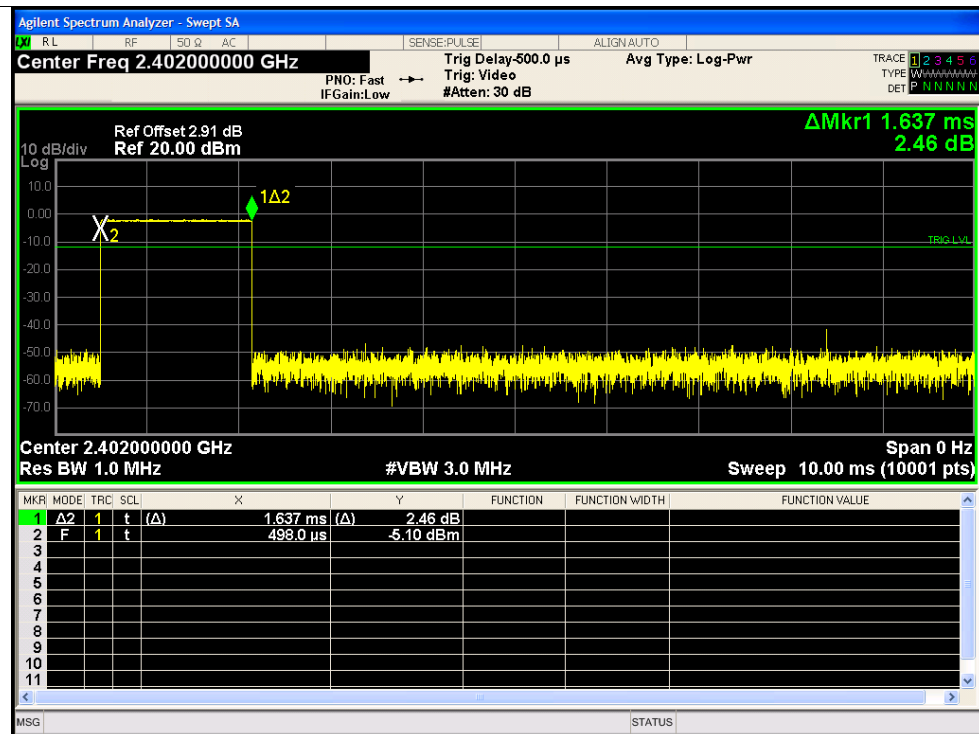
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2402	Ant1	0.381	121.92	<400	Pass
NVNT	1-DH3	2402	Ant1	1.637	261.92	<400	Pass
NVNT	1-DH5	2402	Ant1	2.885	307.73	<400	Pass
Note: Dwell Time(DH1)=PW*(1600/2/79)*31.6 Dwell Time(DH3)=PW*(1600/4/79)*31.6 Dwell Time(DH5)=PW*(1600/6/79)*31.6							

Test Graphs

Dwell NVNT 1-DH1 2402MHz Ant1 One Burst



Dwell NVNT 1-DH3 2402MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

