Appendix:Bluetooth Classic

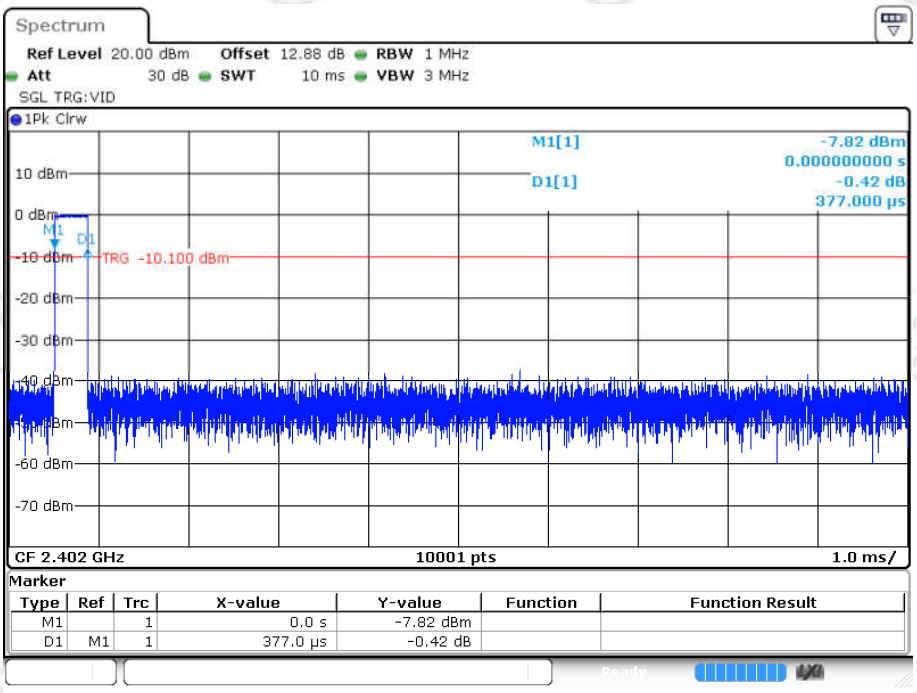
Contents

Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2402	Ant1	0.377	119.132	316	31600	400	Pass
NVNT	1-DH3	2402	Ant1	1.632	261.12	160	31600	400	Pass
NVNT	1-DH5	2402	Ant1	2.881	290.981	101	31600	400	Pass
NVNT	2-DH1	2402	Ant1	0.386	120.046	311	31600	400	Pass
NVNT	2-DH3	2402	Ant1	1.639	258.962	158	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.886	271.284	94	31600	400	Pass

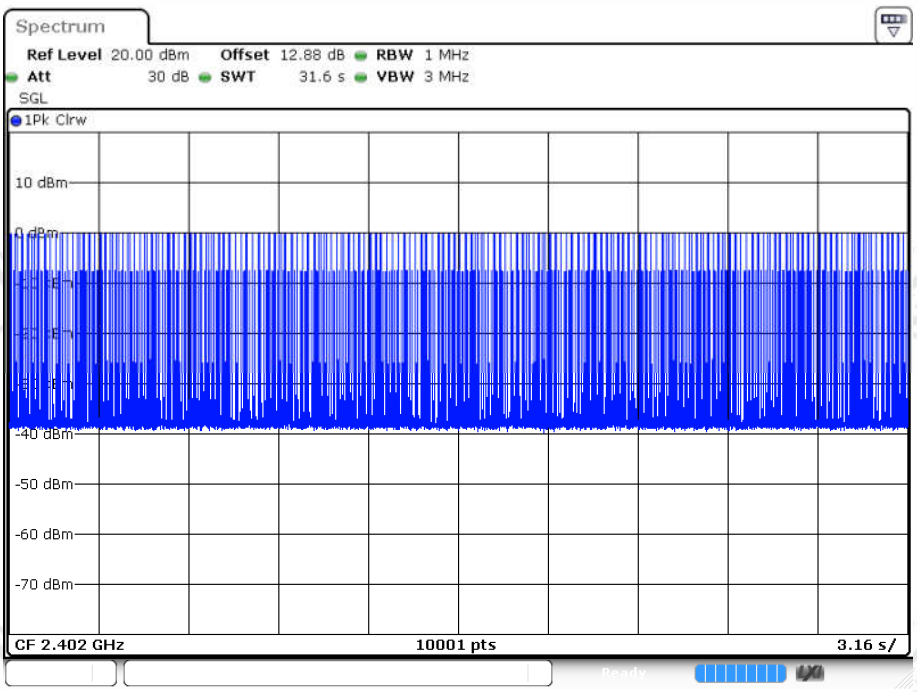
Test Graphs

Dwell NVNT 1-DH1 2402MHz Ant1 One Burst



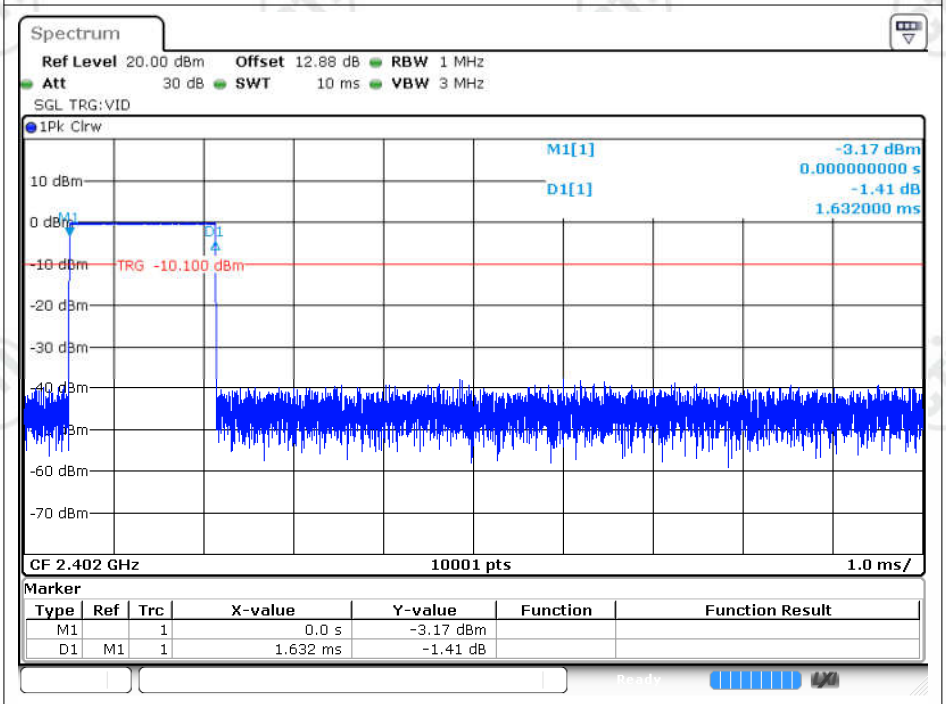
Date: 31.JAN.2024 11:24:43

Dwell NVNT 1-DH1 2402MHz Ant1 Accumulated



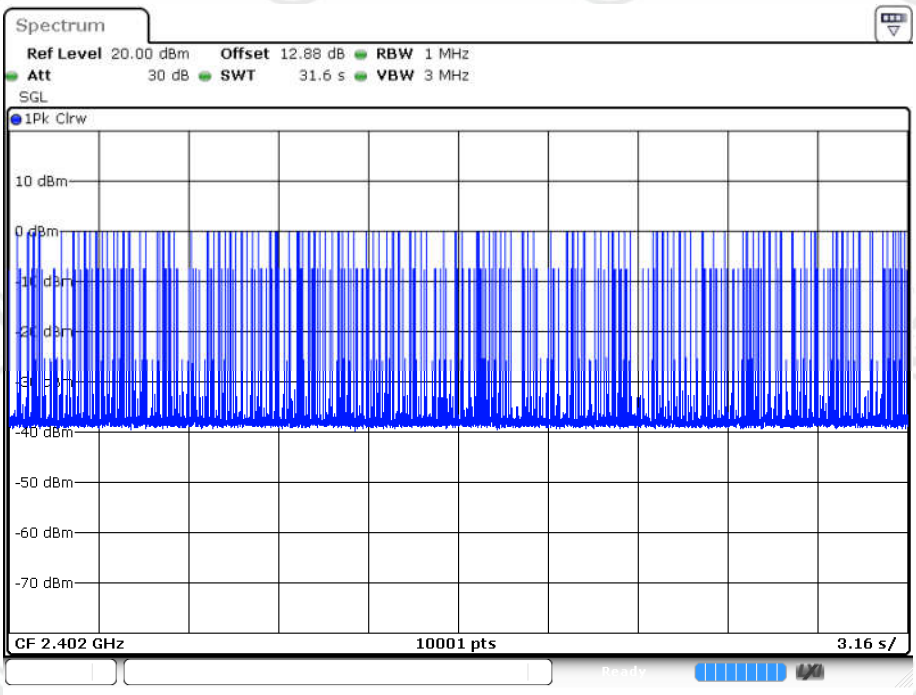
Date: 31.JAN.2024 11:25:15

Dwell NVNT 1-DH3 2402MHz Ant1 One Burst



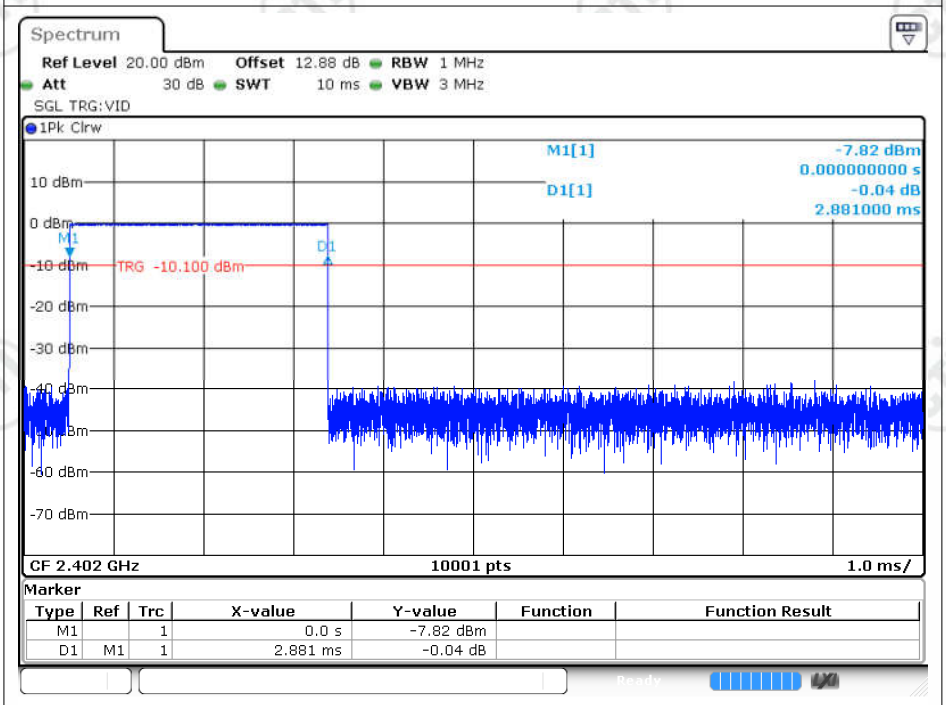
Date: 31.JAN.2024 11:25:51

Dwell NVNT 1-DH3 2402MHz Ant1 Accumulated



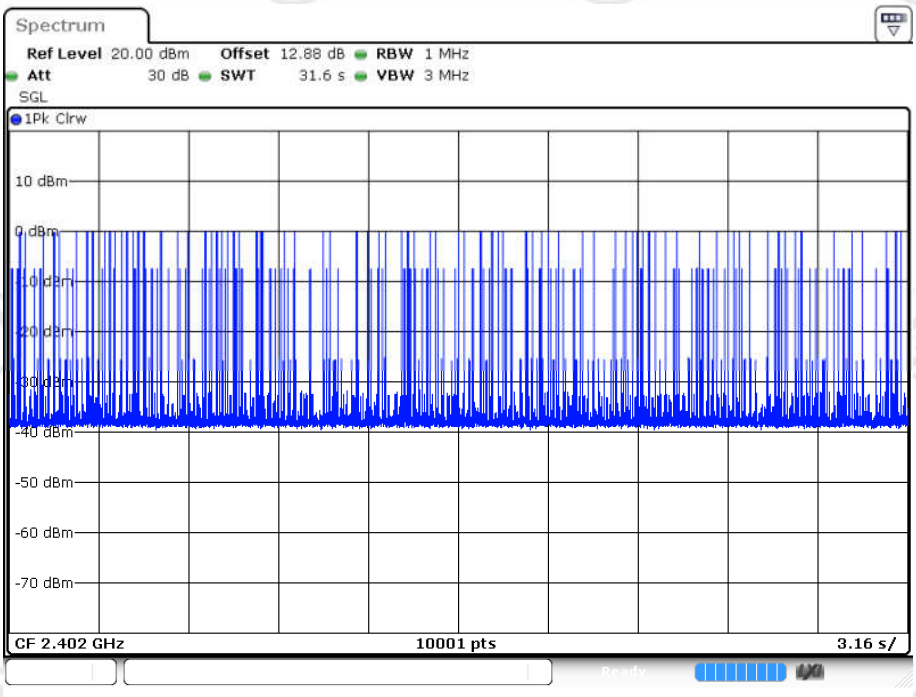
Date: 31.JAN.2024 11:26:24

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



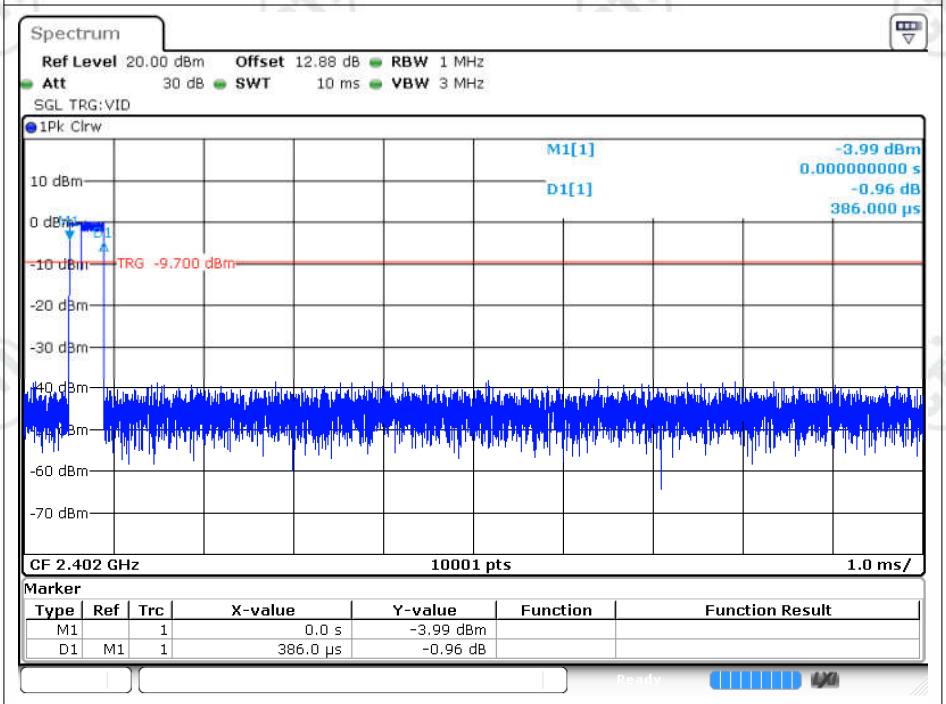
Date: 31.JAN.2024 11:15:08

Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



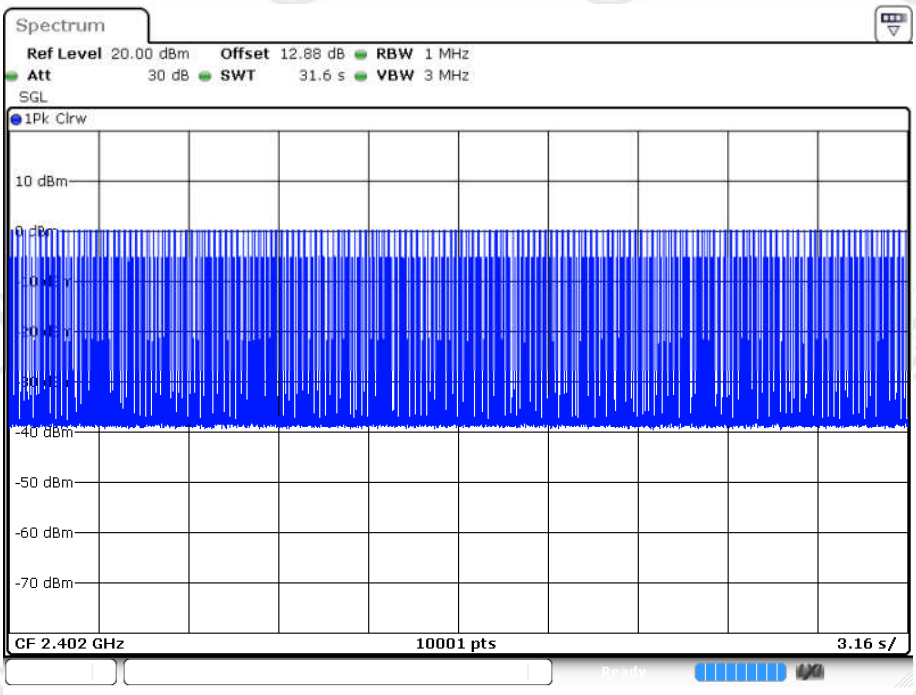
Date: 31.JAN.2024 11:15:40

Dwell NVNT 2-DH1 2402MHz Ant1 One Burst



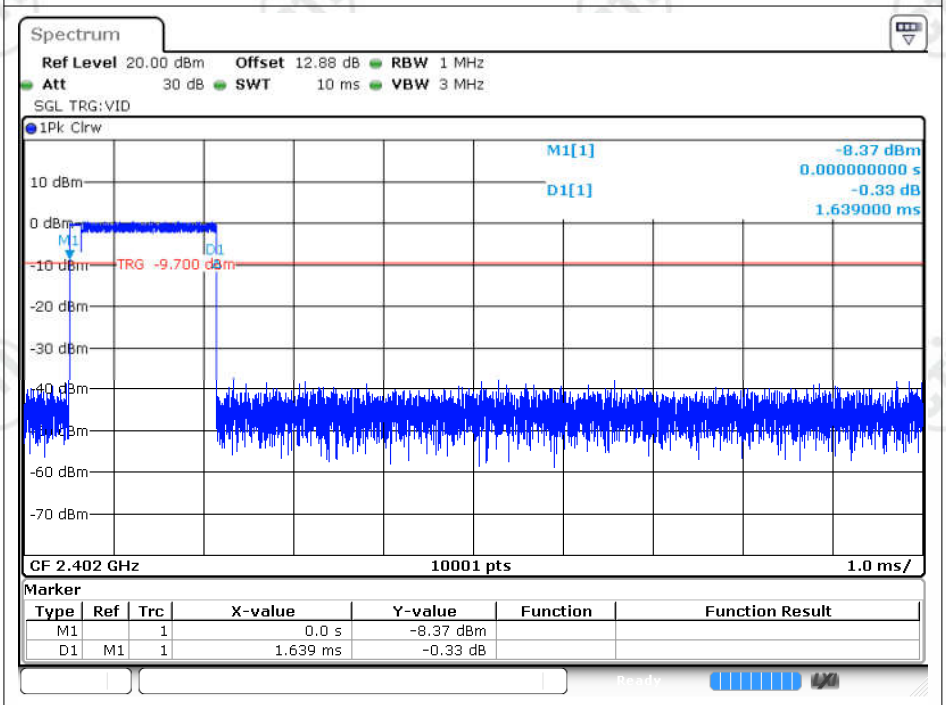
Date: 31.JAN.2024 11:26:47

Dwell NVNT 2-DH1 2402MHz Ant1 Accumulated



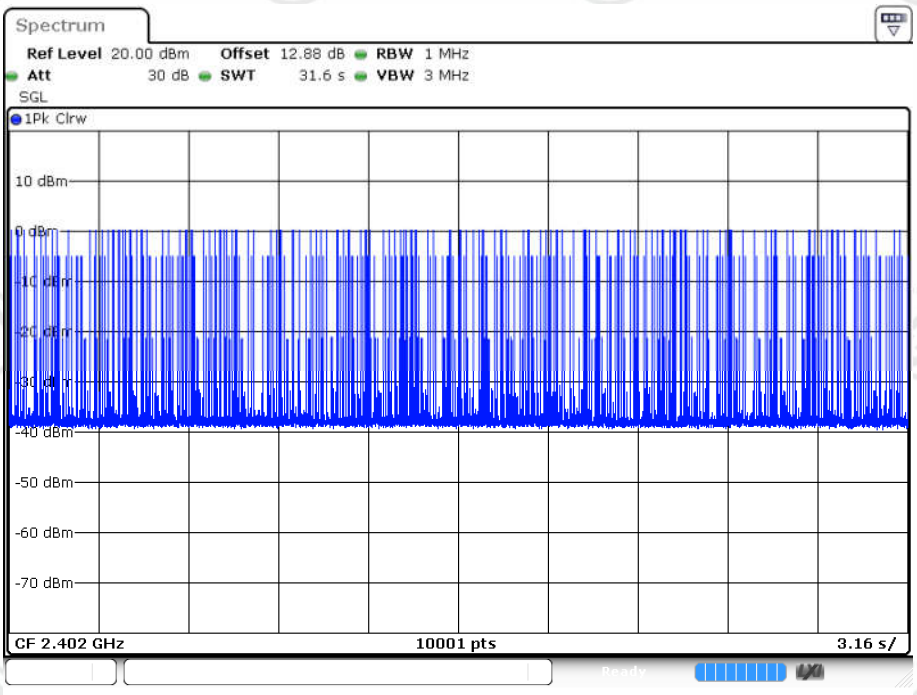
Date: 31.JAN.2024 11:27:19

Dwell NVNT 2-DH3 2402MHz Ant1 One Burst



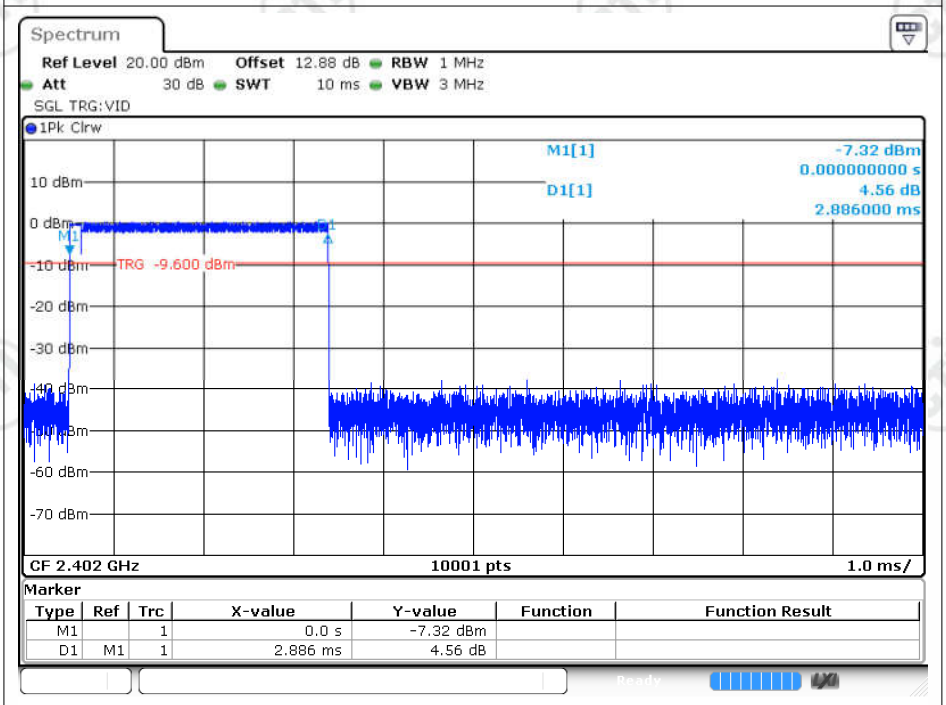
Date: 31.JAN.2024 11:27:59

Dwell NVNT 2-DH3 2402MHz Ant1 Accumulated



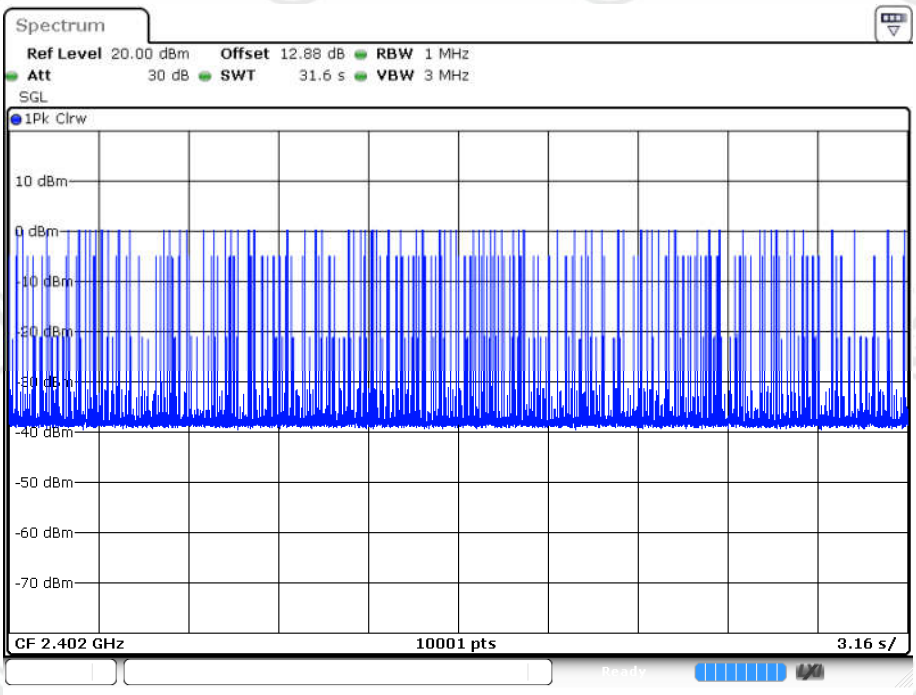
Date: 31.JAN.2024 11:28:32

Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



Date: 31.JAN.2024 11:19:27

Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



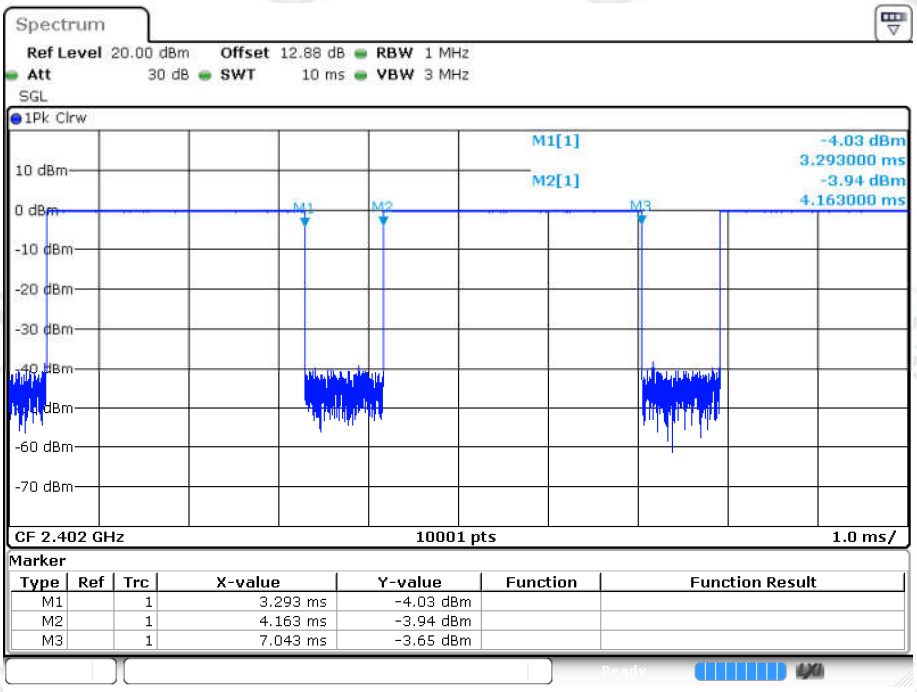
Date: 31.JAN.2024 11:20:00

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	76.8	1.15	0.35
NVNT	1-DH5	2441	Ant1	76.85	1.14	0.35
NVNT	1-DH5	2480	Ant1	76.83	1.14	0.35
NVNT	2-DH5	2402	Ant1	77	1.14	0.35
NVNT	2-DH5	2441	Ant1	77	1.14	0.35
NVNT	2-DH5	2480	Ant1	77	1.14	0.35

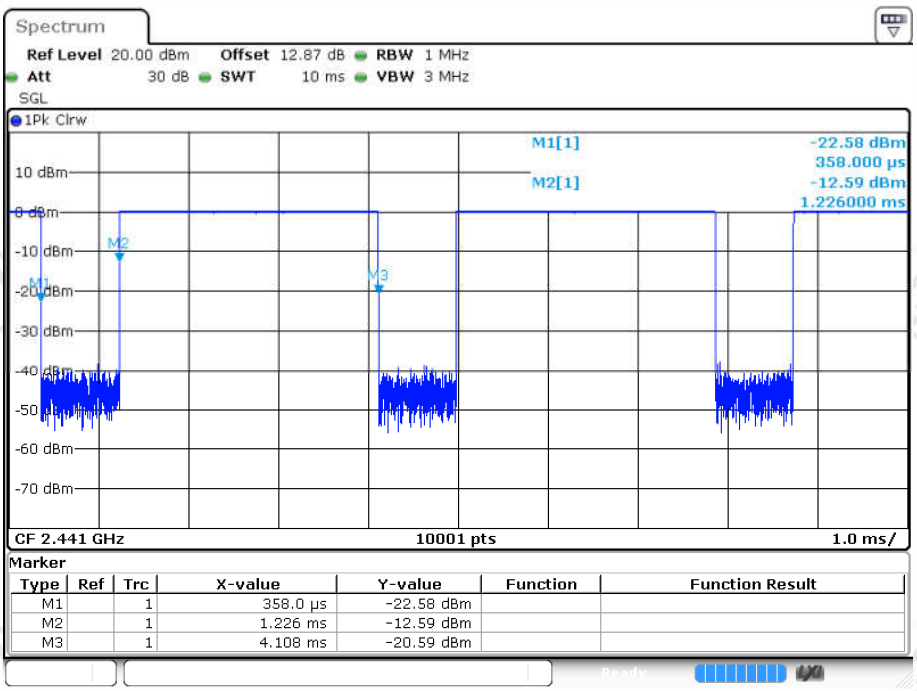
Test Graphs

Duty Cycle NVNT 1-DH5 2402MHz Ant1



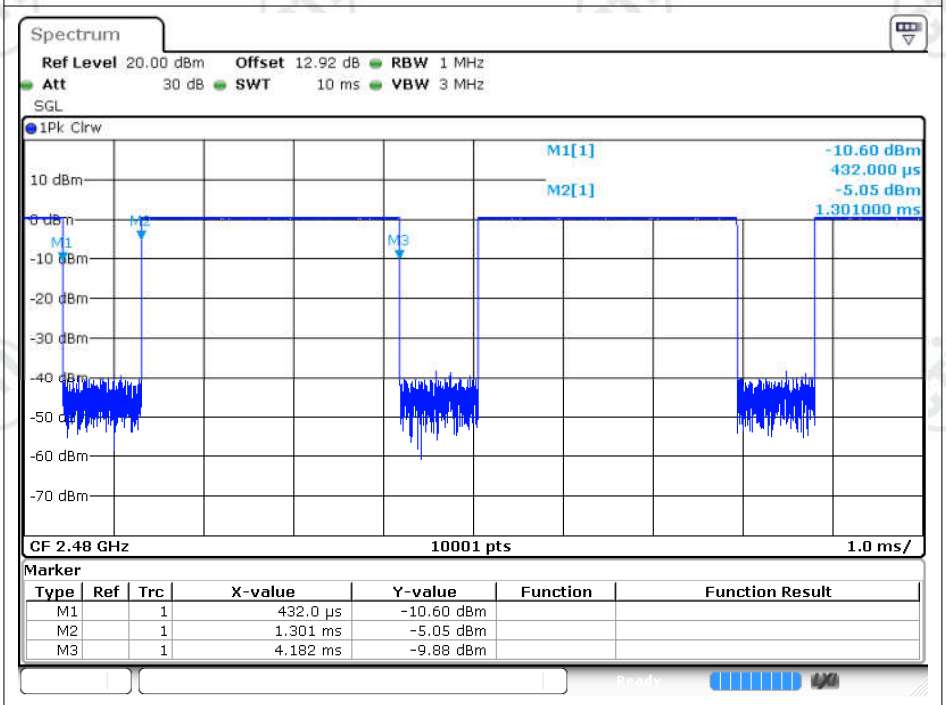
Date: 31.JAN.2024 11:02:43

Duty Cycle NVNT 1-DH5 2441MHz Ant1



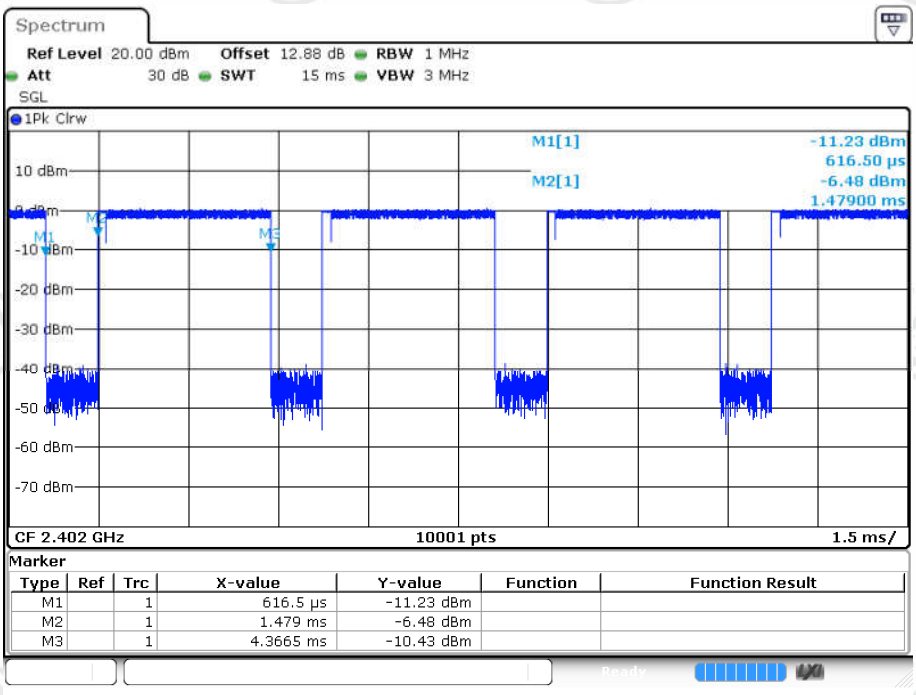
Date: 31.JAN.2024 11:04:43

Duty Cycle NVNT 1-DH5 2480MHz Ant1



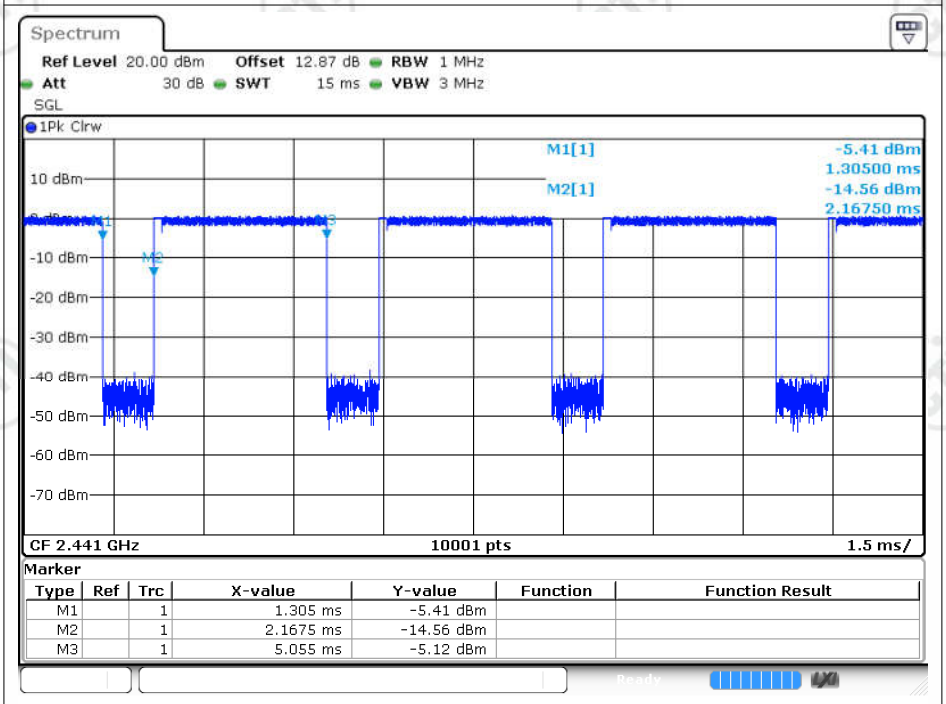
Date: 31.JAN.2024 11:06:03

Duty Cycle NVNT 2-DH5 2402MHz Ant1



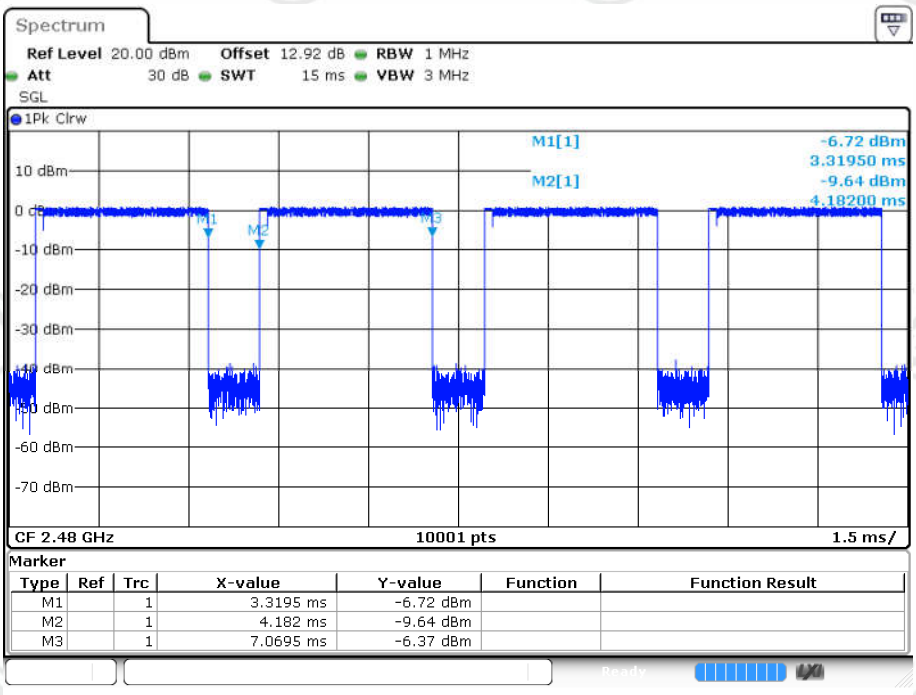
Date: 31.JAN.2024 11:08:14

Duty Cycle NVNT 2-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:09:44

Duty Cycle NVNT 2-DH5 2480MHz Ant1



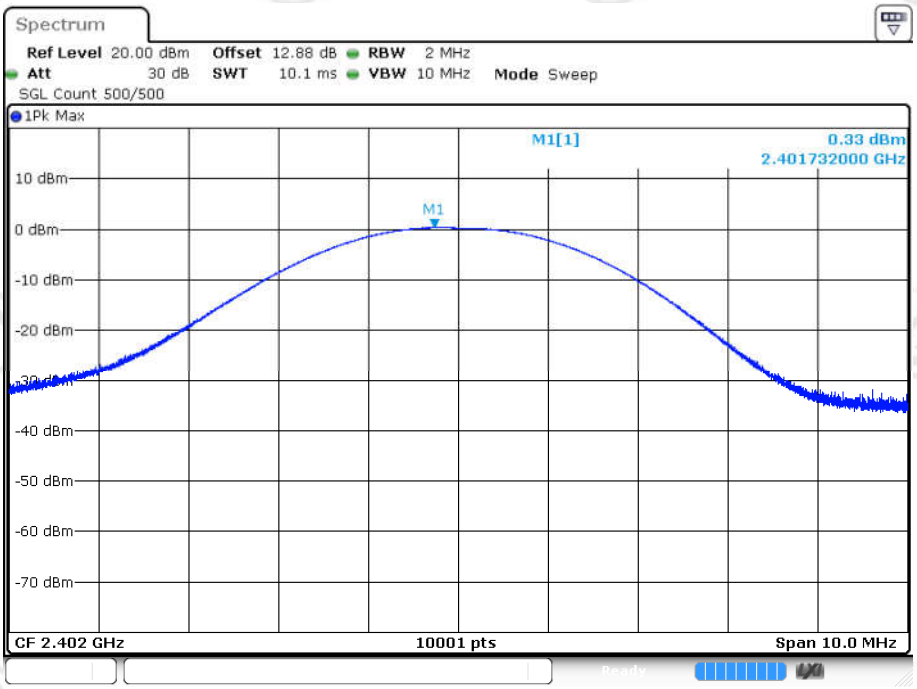
Date: 31.JAN.2024 11:11:35

Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.33	21	Pass
NVNT	1-DH5	2441	Ant1	0.64	21	Pass
NVNT	1-DH5	2480	Ant1	0.92	21	Pass
NVNT	2-DH5	2402	Ant1	1.05	21	Pass
NVNT	2-DH5	2441	Ant1	1.33	21	Pass
NVNT	2-DH5	2480	Ant1	**1.56**	21	Pass

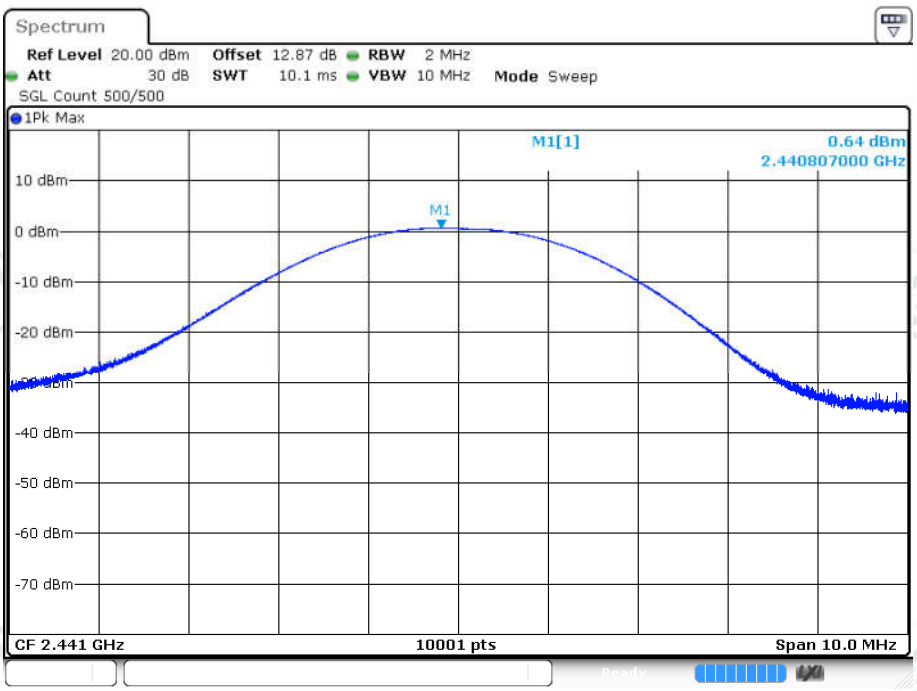
Test Graphs

Peak Power NVNT 1-DH5 2402MHz Ant1



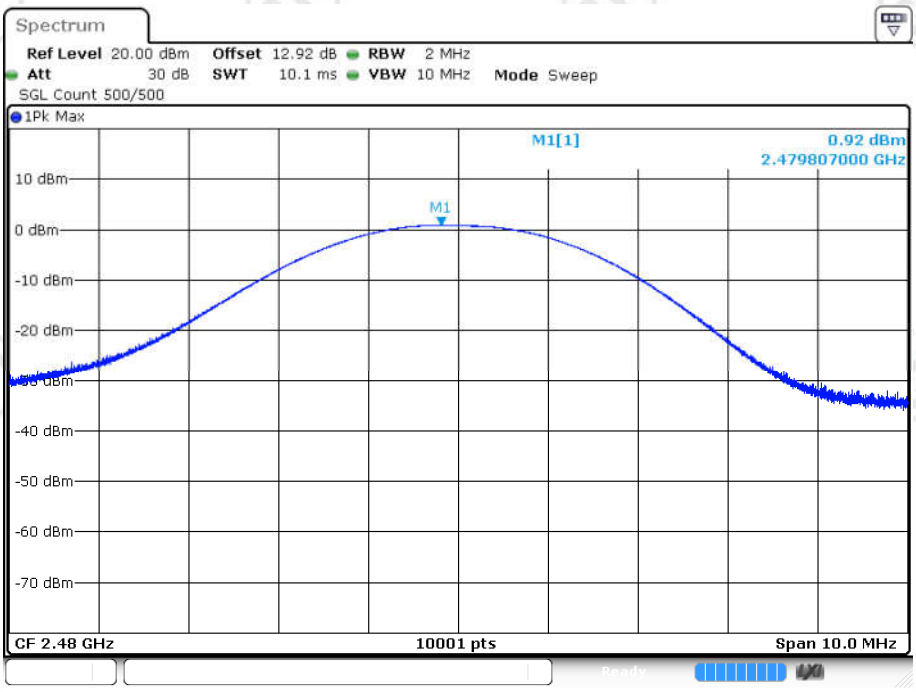
Date: 31.JAN.2024 11:02:16

Peak Power NVNT 1-DH5 2441MHz Ant1



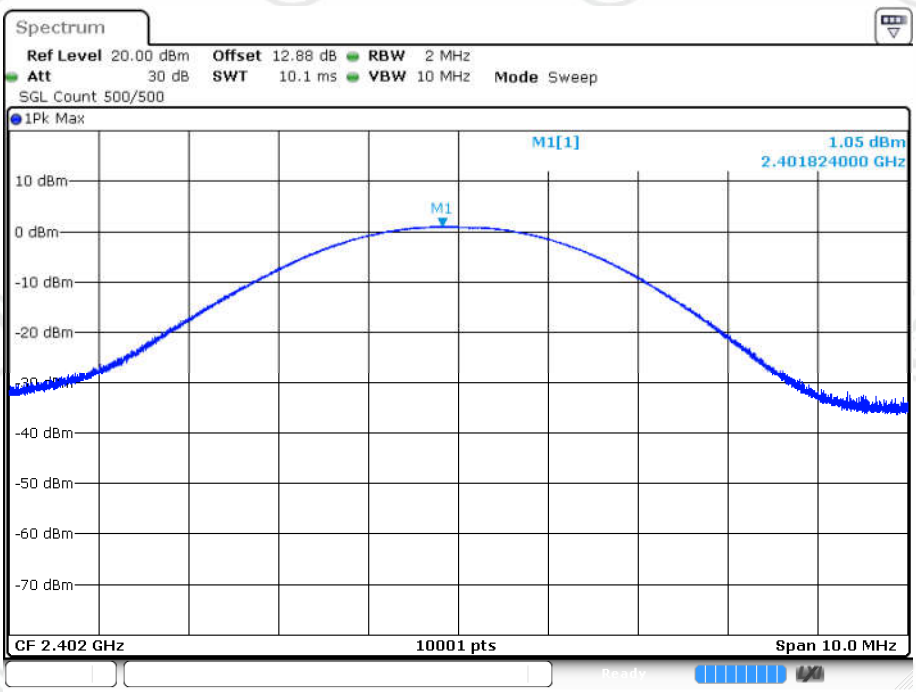
Date: 31.JAN.2024 11:04:53

Peak Power NVNT 1-DH5 2480MHz Ant1



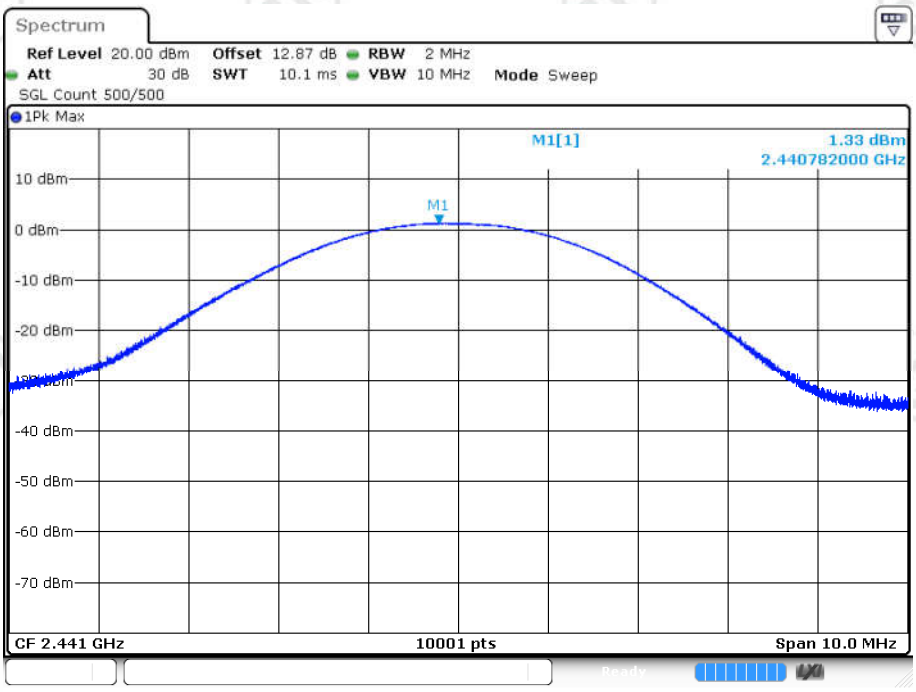
Date: 31.JAN.2024 11:06:13

Peak Power NVNT 2-DH5 2402MHz Ant1



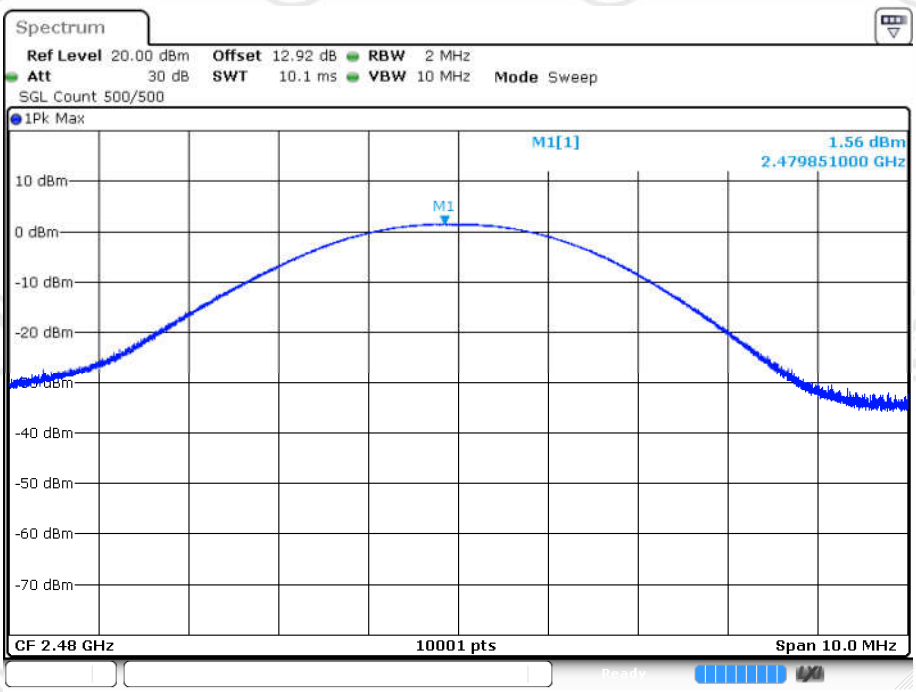
Date: 31.JAN.2024 11:08:25

Peak Power NVNT 2-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:09:54

Peak Power NVNT 2-DH5 2480MHz Ant1



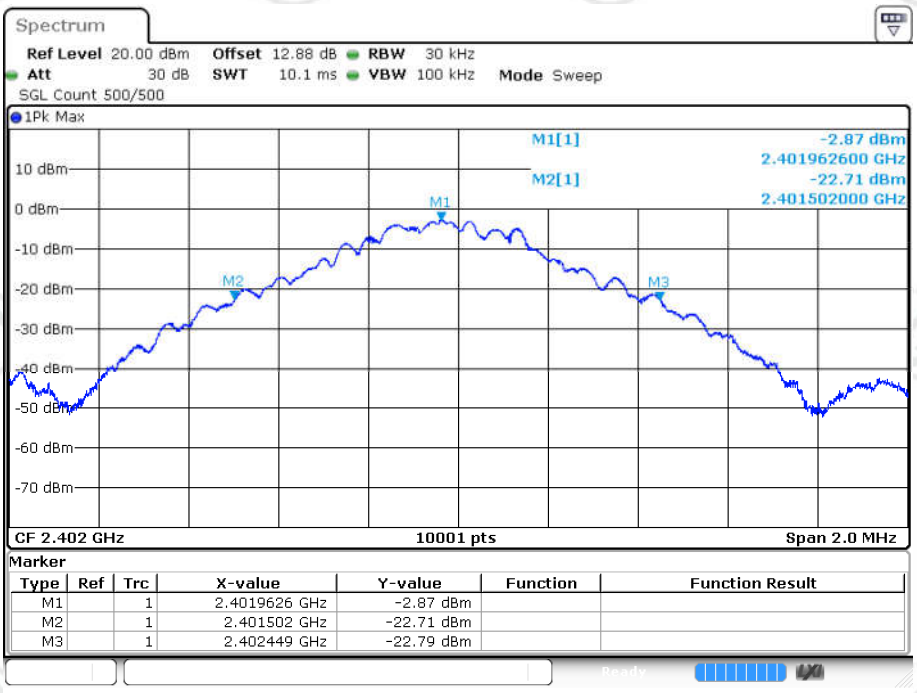
Date: 31.JAN.2024 11:11:45

-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.947	Pass
NVNT	1-DH5	2441	Ant1	0.948	Pass
NVNT	1-DH5	2480	Ant1	0.948	Pass
NVNT	2-DH5	2402	Ant1	1.310	Pass
NVNT	2-DH5	2441	Ant1	1.311	Pass
NVNT	2-DH5	2480	Ant1	1.310	Pass

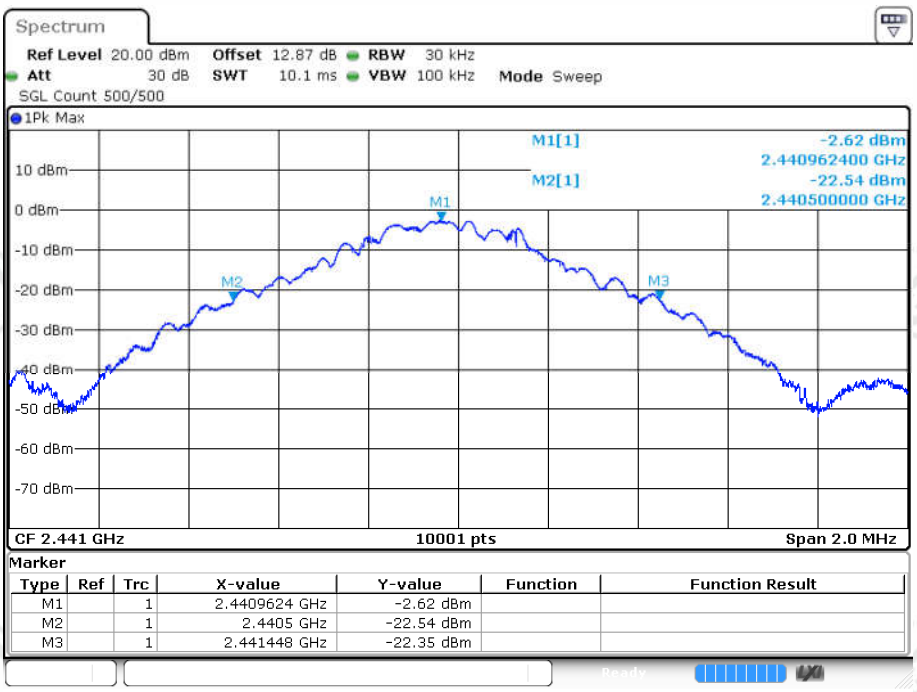
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



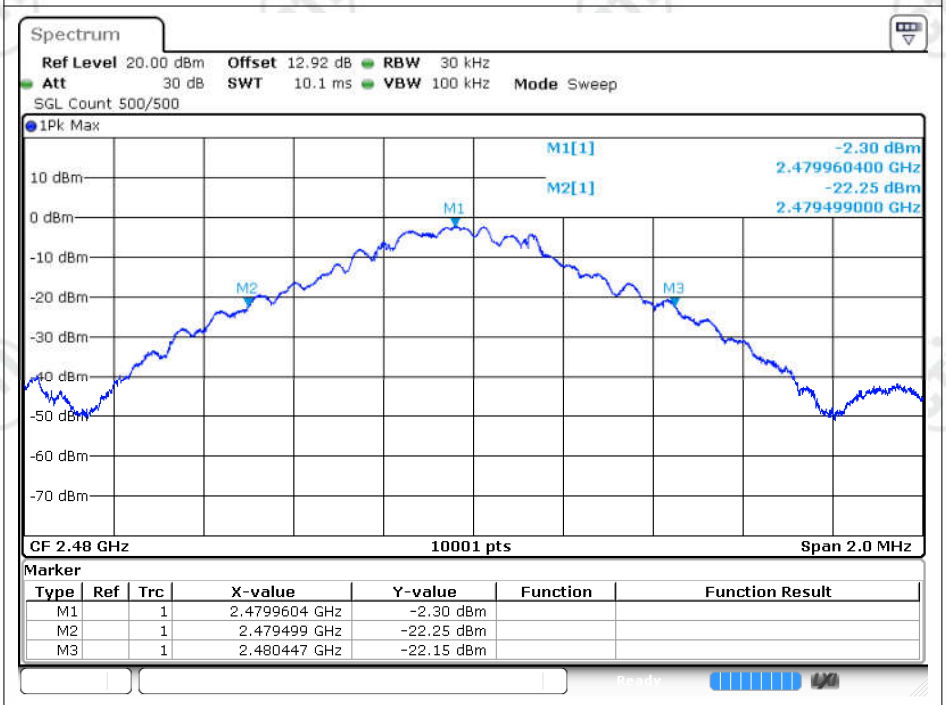
Date: 31.JAN.2024 11:03:06

-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



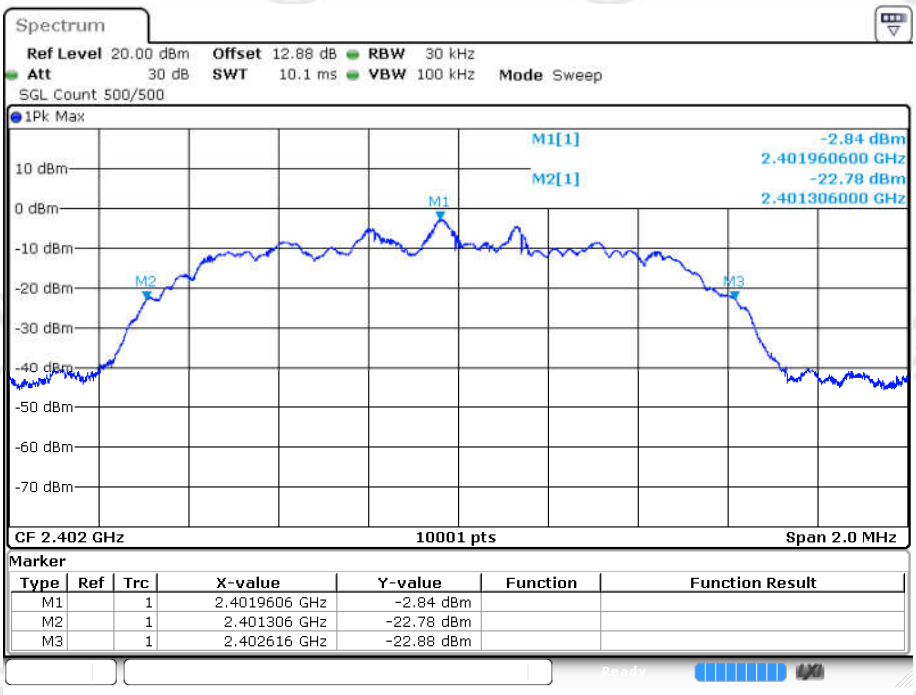
Date: 31.JAN.2024 11:05:16

-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



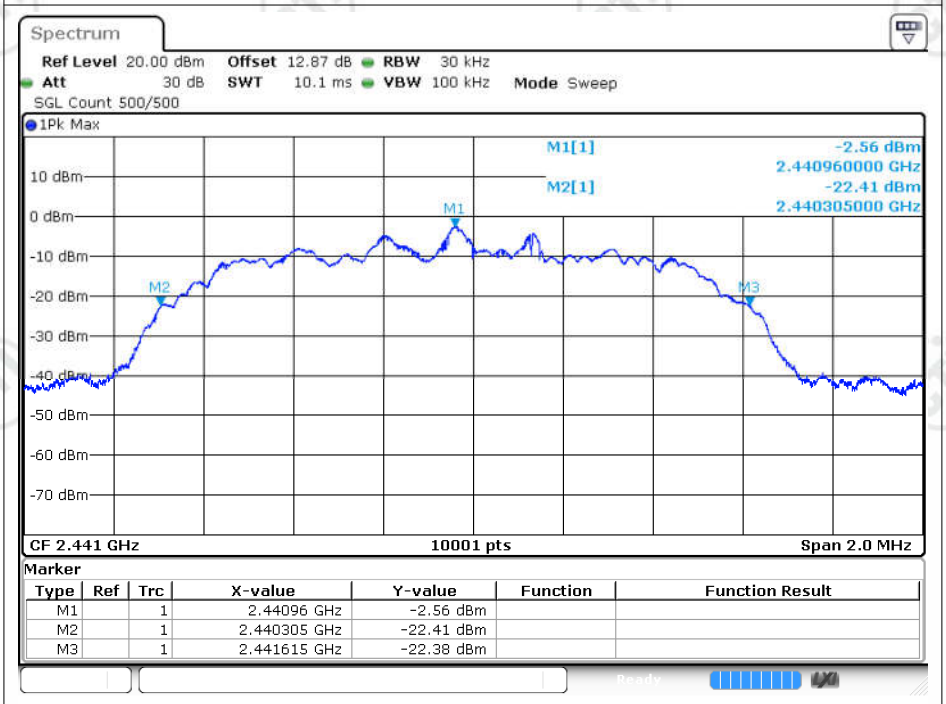
Date: 31.JAN.2024 11:06:36

-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



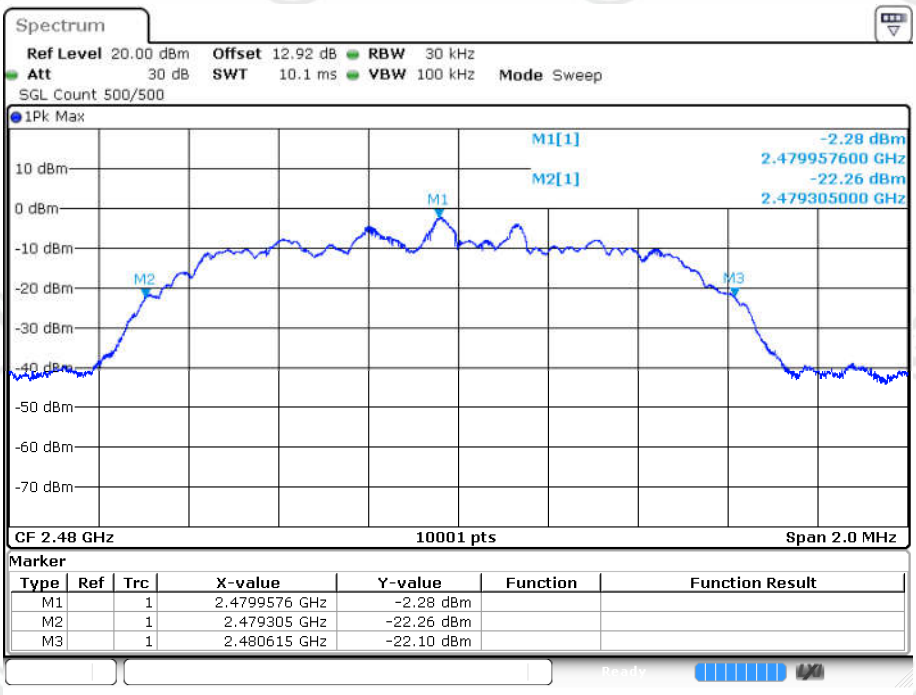
Date: 31.JAN.2024 11:08:48

-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:10:17

-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



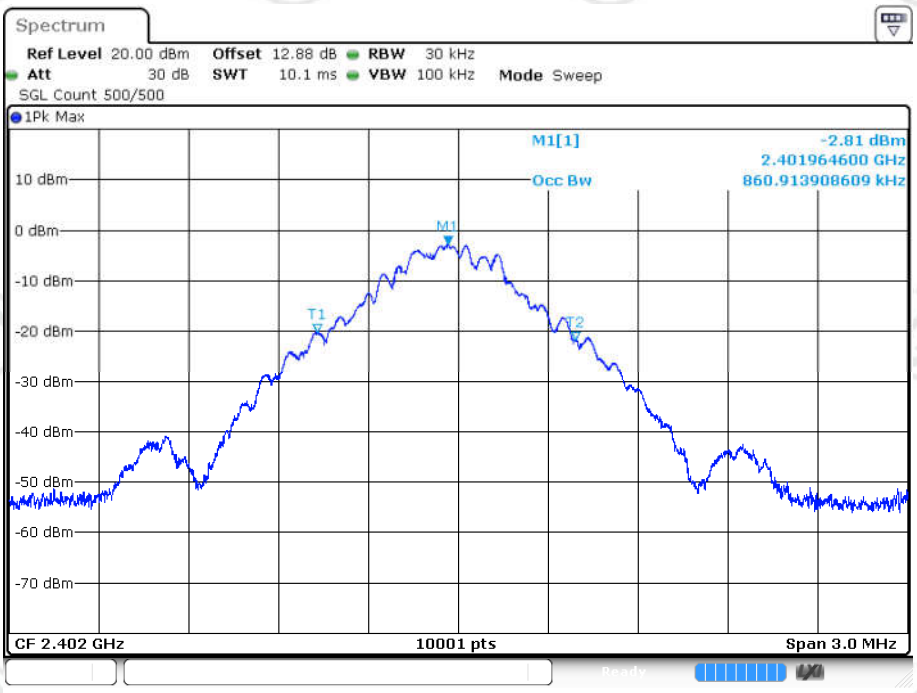
Date: 31.JAN.2024 11:12:08

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.861
NVNT	1-DH5	2441	Ant1	0.862
NVNT	1-DH5	2480	Ant1	0.861
NVNT	2-DH5	2402	Ant1	1.183
NVNT	2-DH5	2441	Ant1	1.185
NVNT	2-DH5	2480	Ant1	1.187

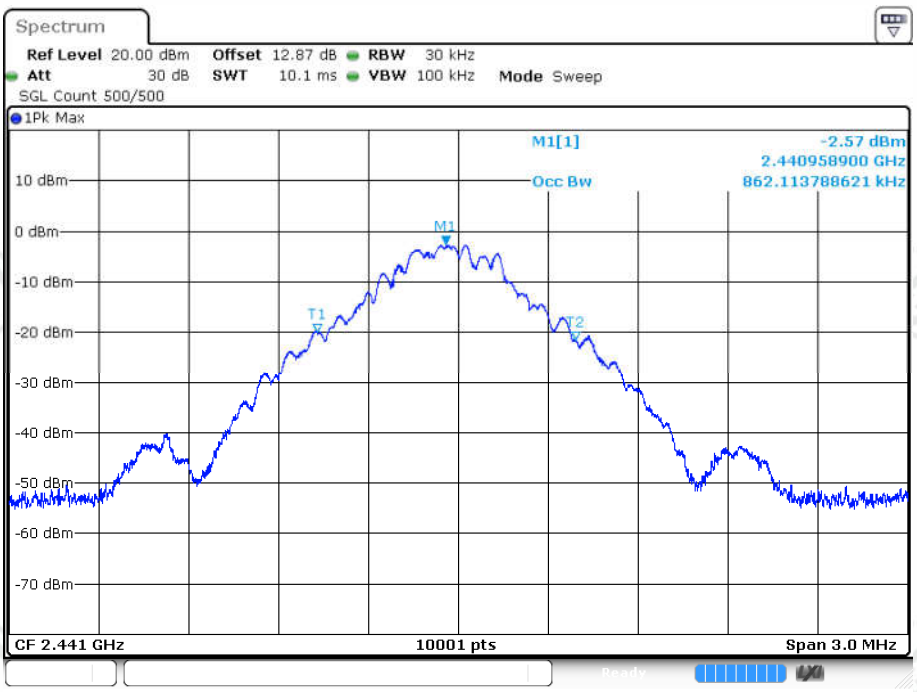
Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



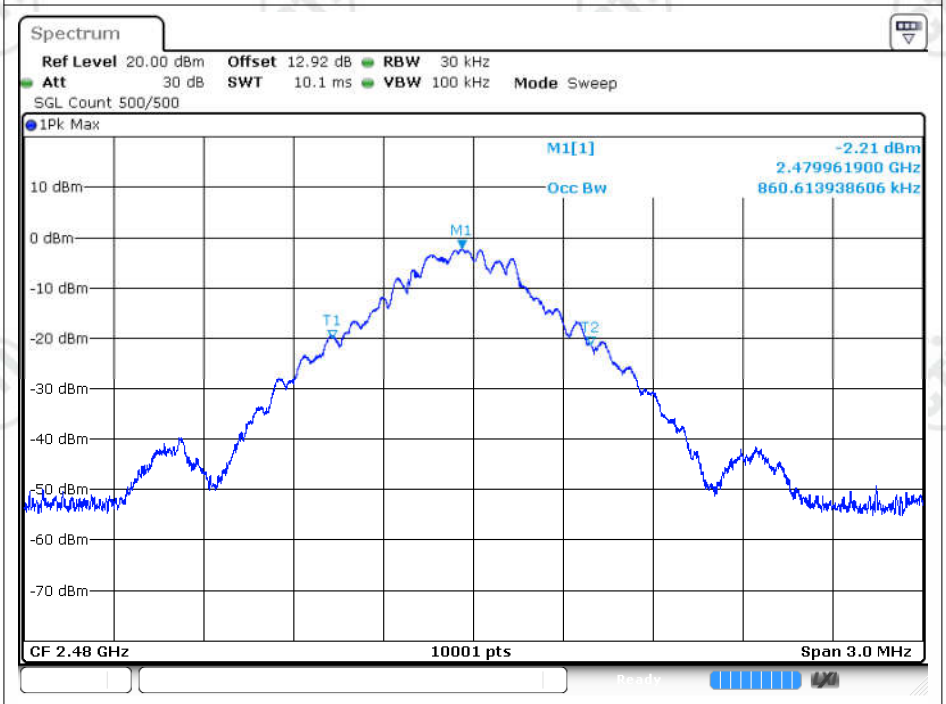
Date: 31.JAN.2024 11:02:54

OBW NVNT 1-DH5 2441MHz Ant1



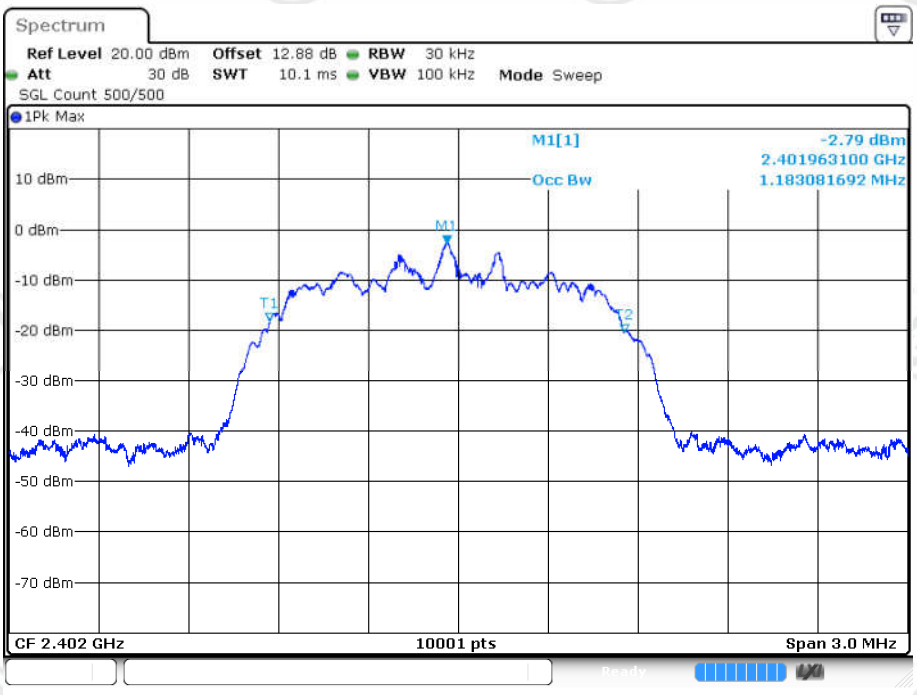
Date: 31.JAN.2024 11:05:04

OBW NVNT 1-DH5 2480MHz Ant1



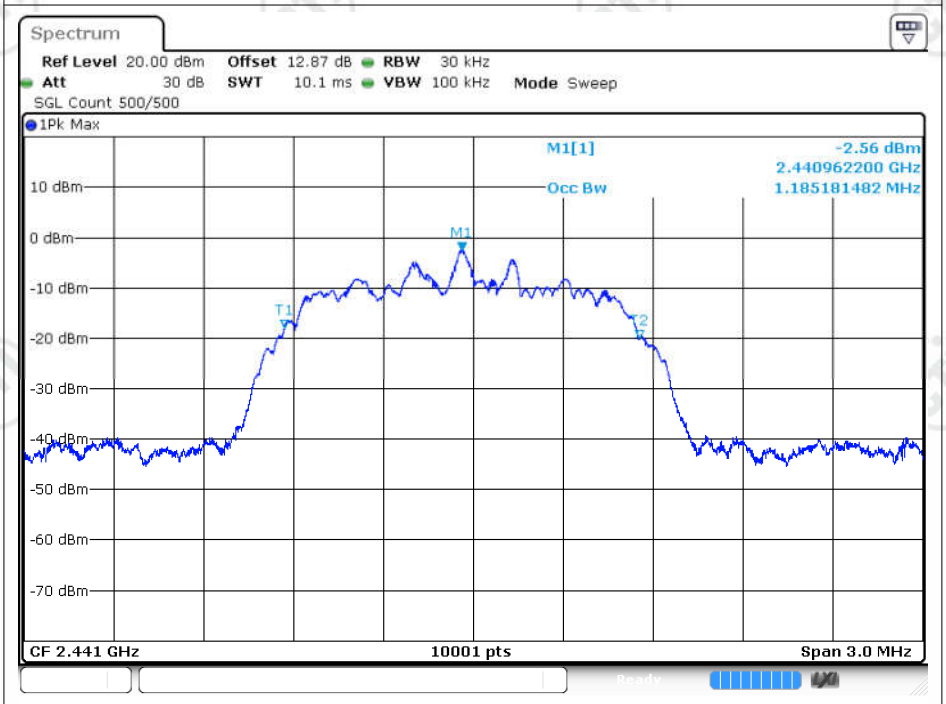
Date: 31.JAN.2024 11:06:24

OBW NVNT 2-DH5 2402MHz Ant1



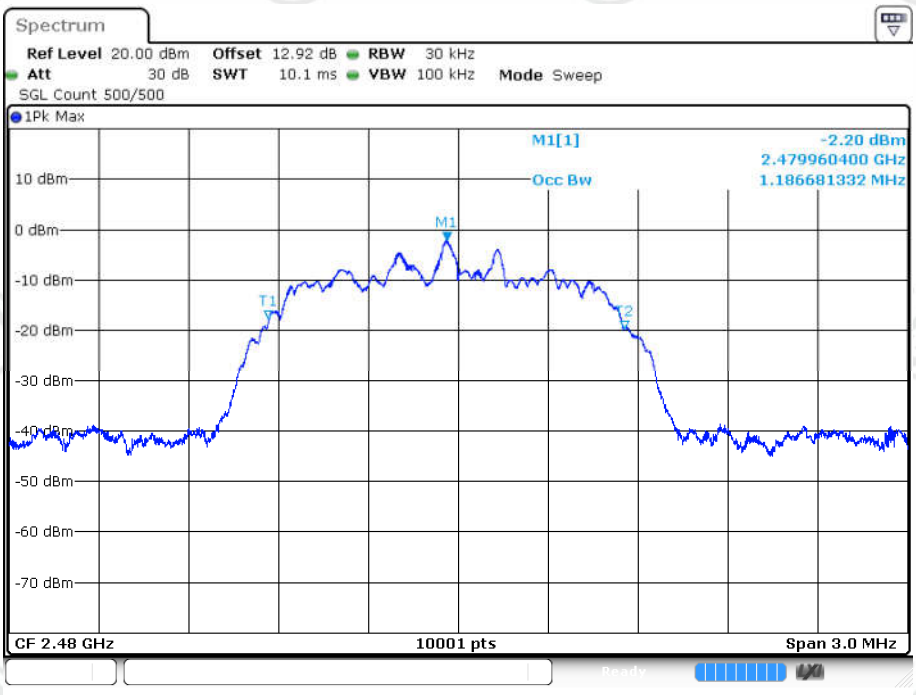
Date: 31.JAN.2024 11:08:36

OBW NVNT 2-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:10:05

OBW NVNT 2-DH5 2480MHz Ant1



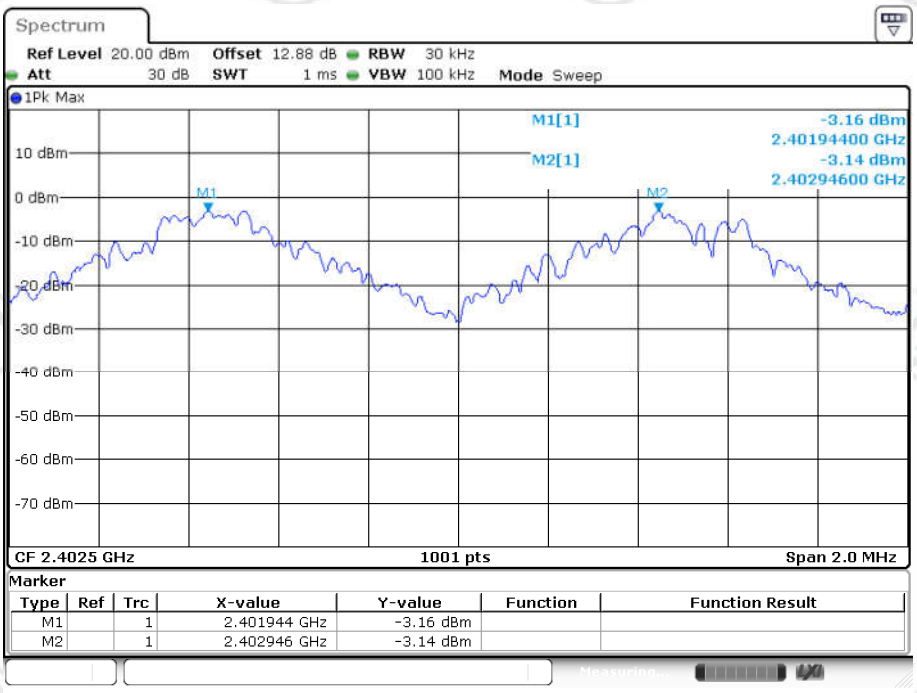
Date: 31.JAN.2024 11:11:56

Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.944	2402.946	1.002	0.631	Pass
NVNT	1-DH5	Ant1	2440.842	2441.948	1.106	0.632	Pass
NVNT	1-DH5	Ant1	2478.96	2479.94	0.980	0.632	Pass
NVNT	2-DH5	Ant1	2401.964	2402.944	0.980	0.873	Pass
NVNT	2-DH5	Ant1	2440.796	2441.956	1.160	0.874	Pass
NVNT	2-DH5	Ant1	2478.96	2479.962	1.002	0.873	Pass

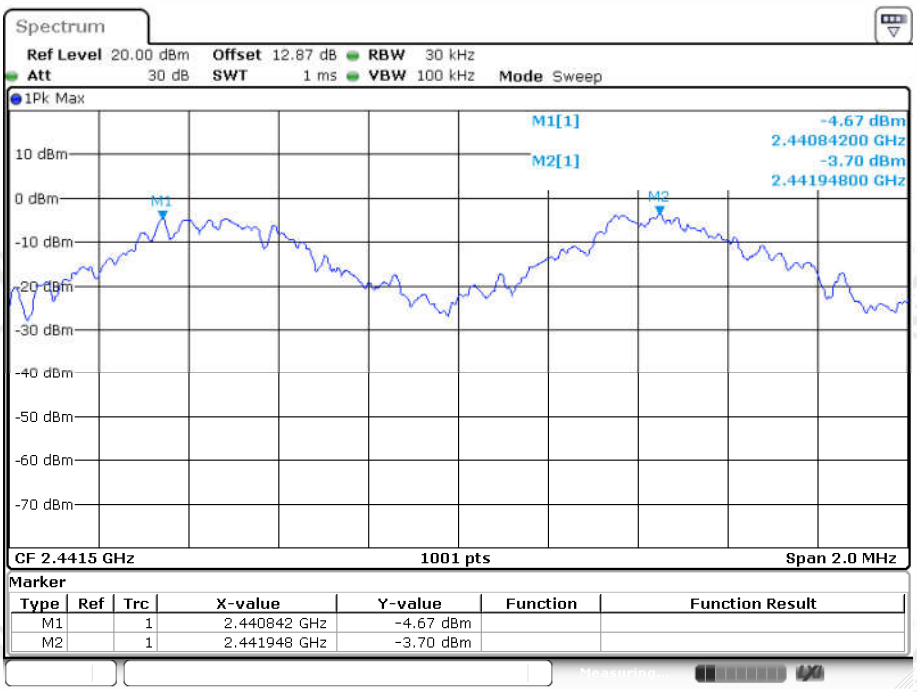
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



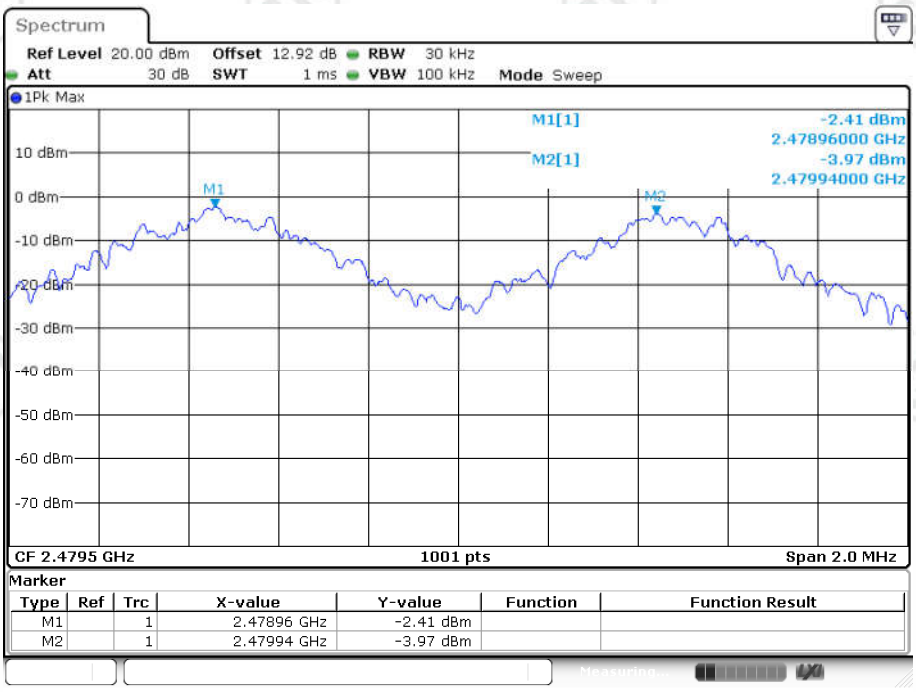
Date: 31.JAN.2024 11:13:39

CFS NVNT 1-DH5 2441MHz Ant1



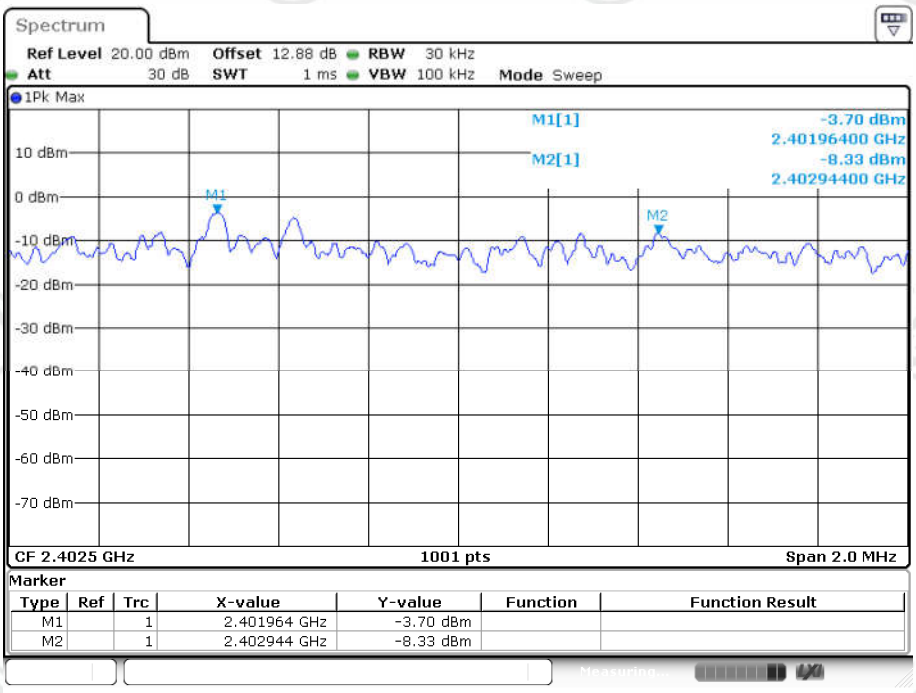
Date: 31.JAN.2024 11:14:39

CFS NVNT 1-DH5 2480MHz Ant1



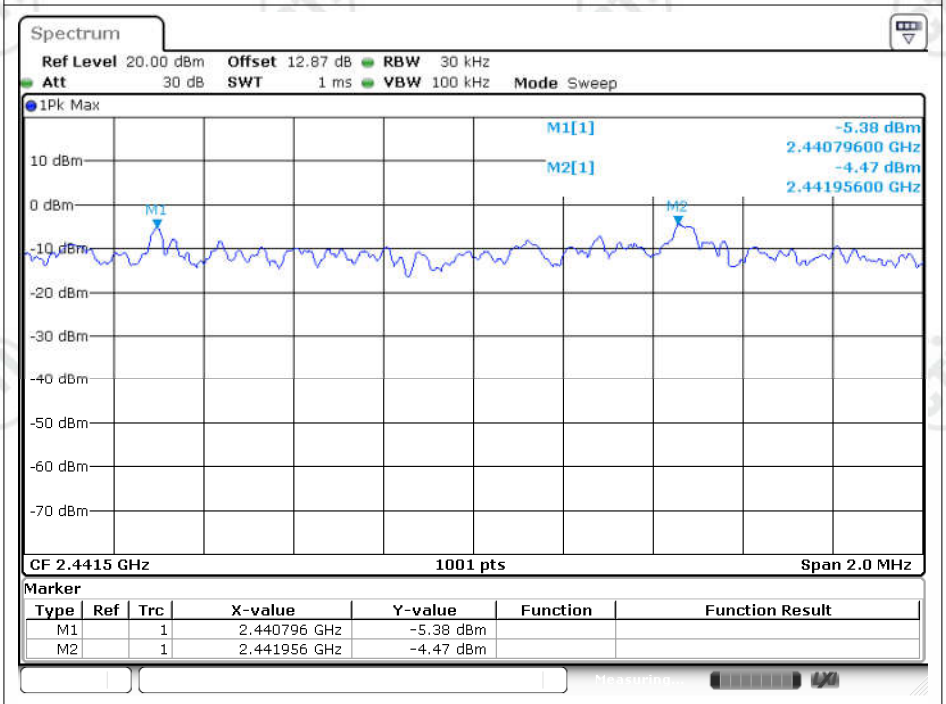
Date: 31.JAN.2024 11:16:11

CFS NVNT 2-DH5 2402MHz Ant1



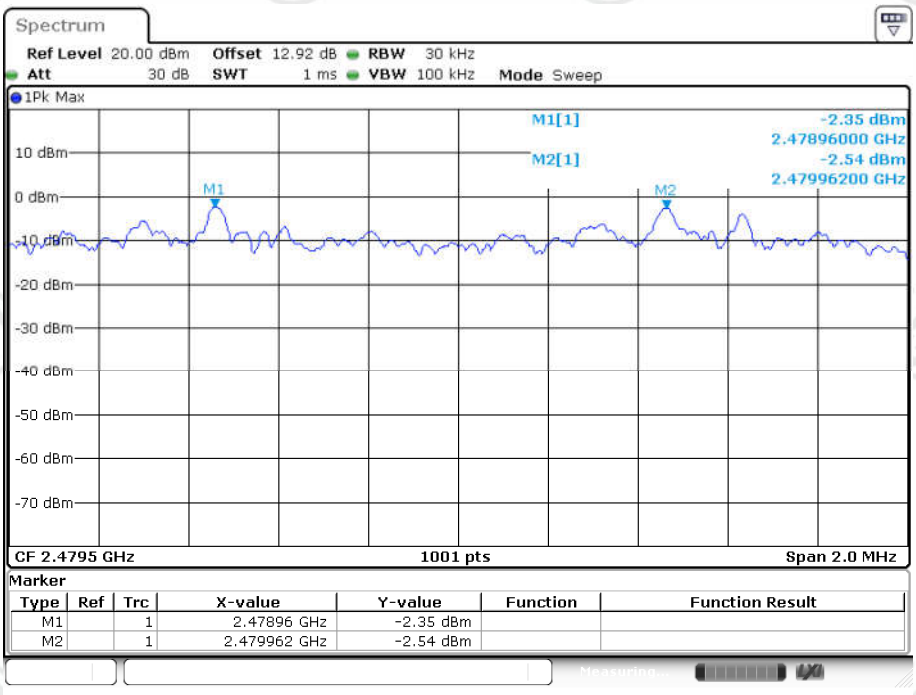
Date: 31.JAN.2024 11:17:20

CFS NVNT 2-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:18:43

CFS NVNT 2-DH5 2480MHz Ant1



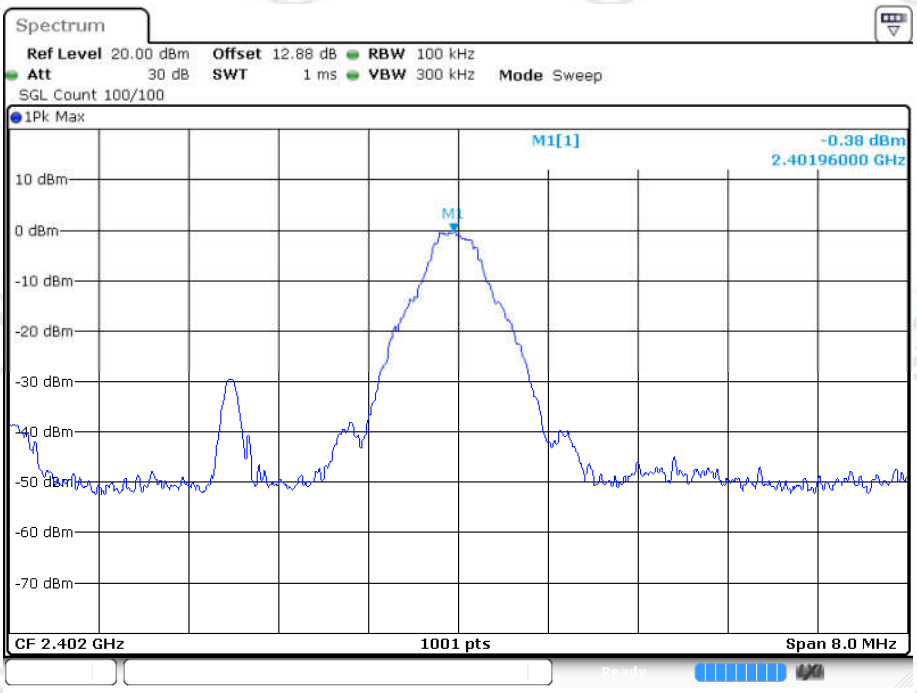
Date: 31.JAN.2024 11:20:43

Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-31.04	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-46.82	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-30.18	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-46.48	-20	Pass

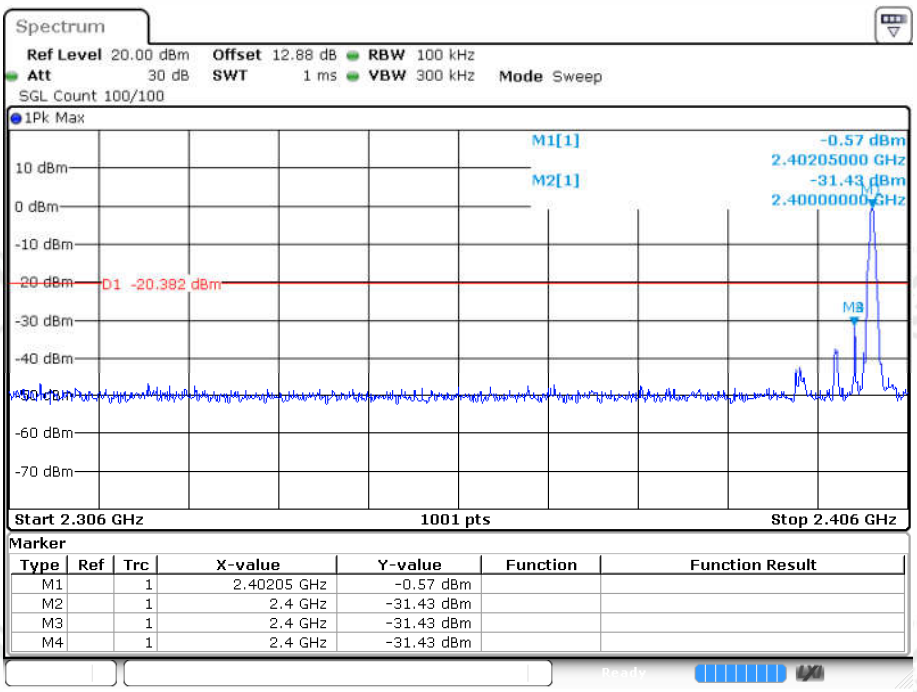
Test Graphs

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Date: 31.JAN.2024 11:03:09

Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

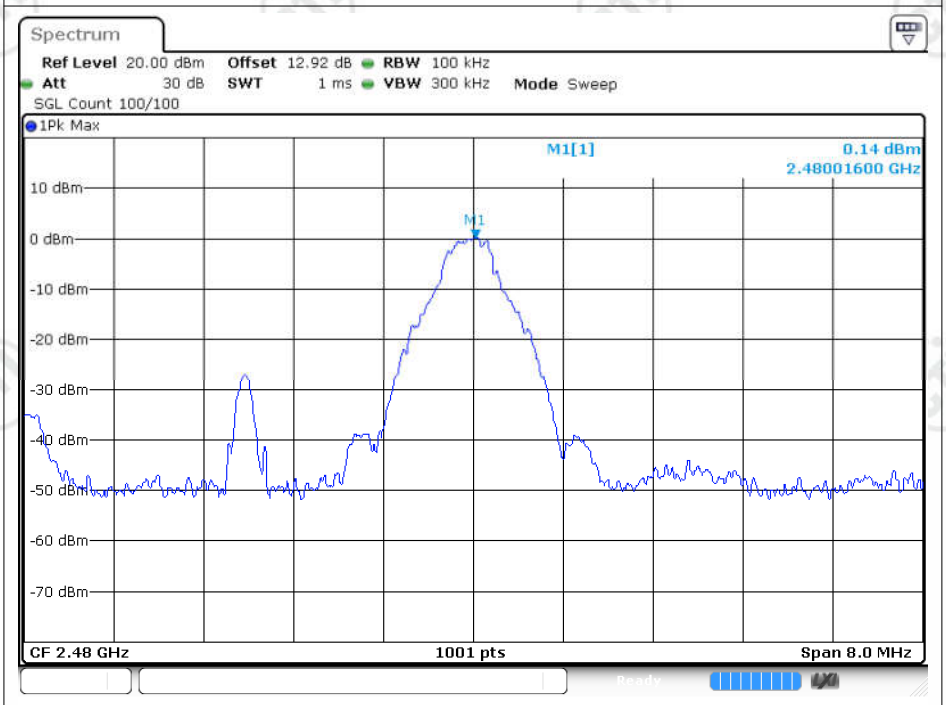


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40205 GHz	-0.57 dBm		
M2		1	2.4 GHz	-31.43 dBm		
M3		1	2.4 GHz	-31.43 dBm		
M4		1	2.4 GHz	-31.43 dBm		

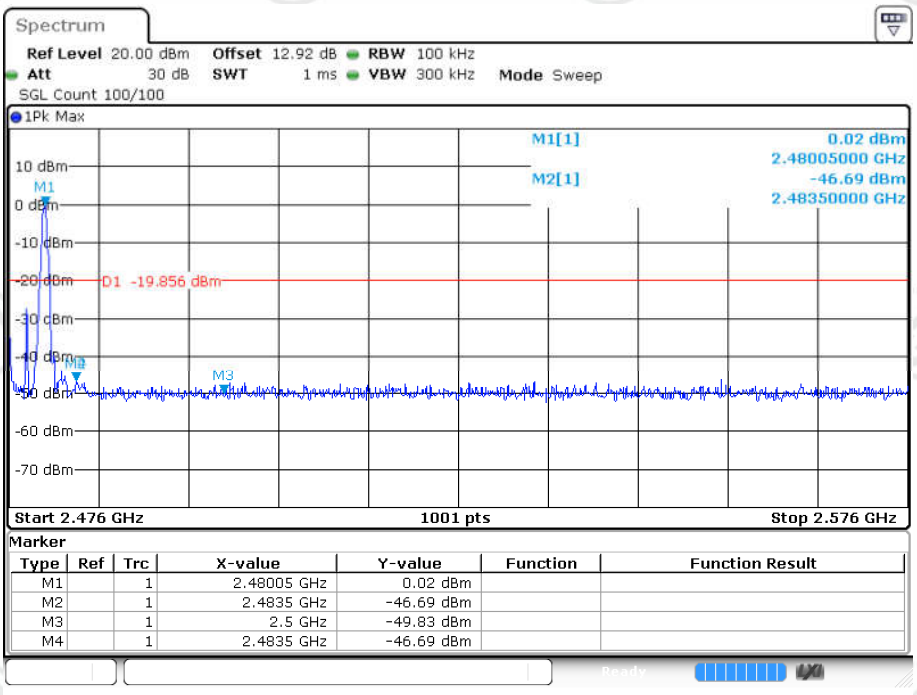
Date: 31.JAN.2024 11:03:11

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



Date: 31.JAN.2024 11:06:39

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

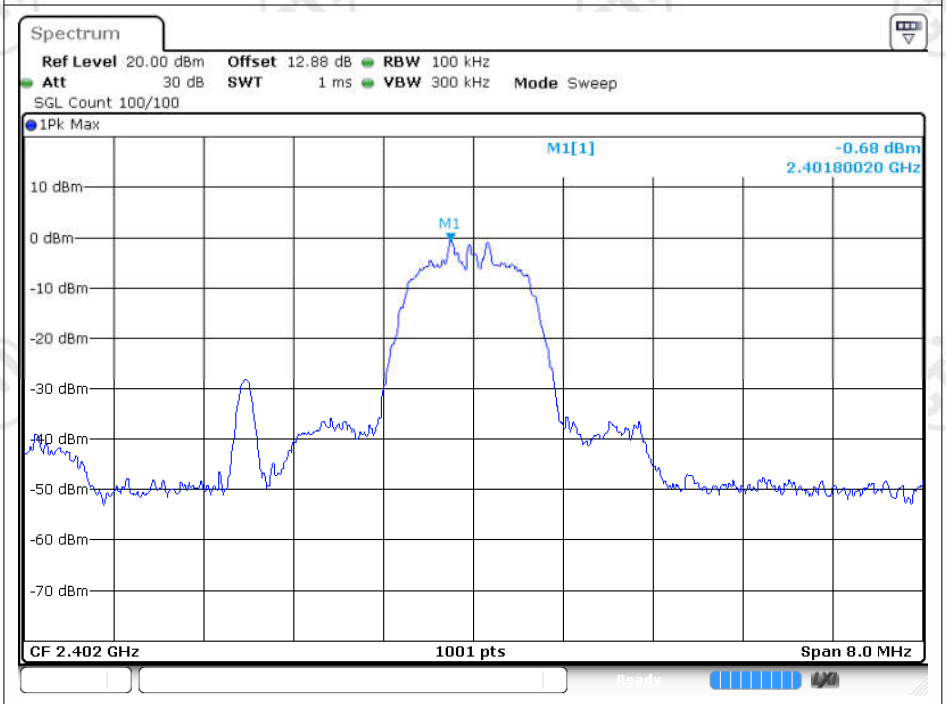


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48005 GHz	0.02 dBm		
M2		1	2.4835 GHz	-46.69 dBm		
M3		1	2.5 GHz	-49.83 dBm		
M4		1	2.4835 GHz	-46.69 dBm		

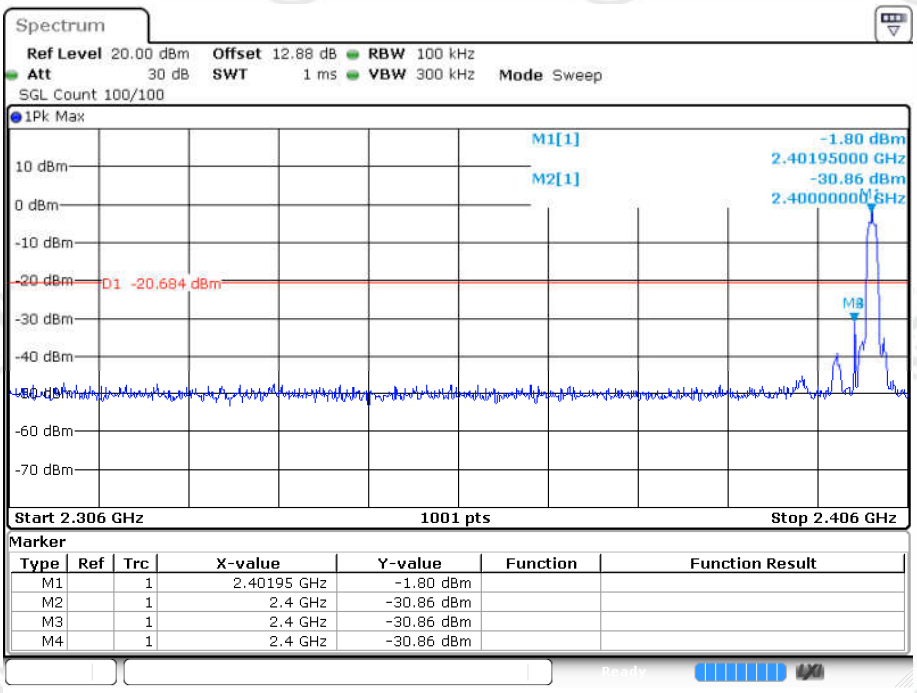
Date: 31.JAN.2024 11:06:40

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



Date: 31.JAN.2024 11:08:51

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

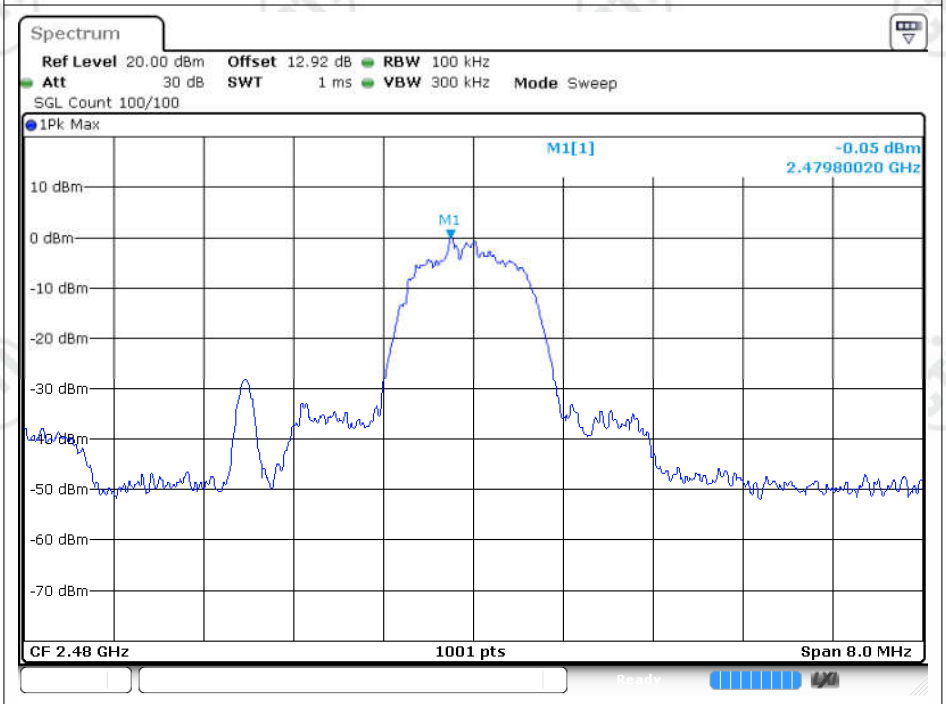


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40195 GHz	-1.80 dBm		
M2		1	2.4 GHz	-30.86 dBm		
M3		1	2.4 GHz	-30.86 dBm		
M4		1	2.4 GHz	-30.86 dBm		

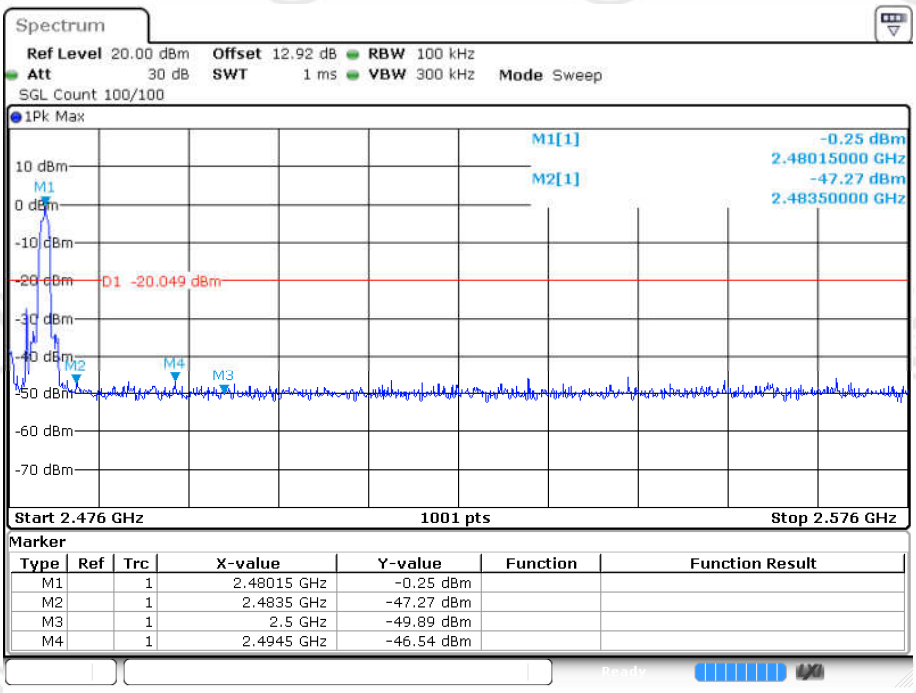
Date: 31.JAN.2024 11:08:52

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Date: 31.JAN.2024 11:12:11

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48015 GHz	-0.25 dBm		
M2		1	2.4835 GHz	-47.27 dBm		
M3		1	2.5 GHz	-49.89 dBm		
M4		1	2.4945 GHz	-46.54 dBm		

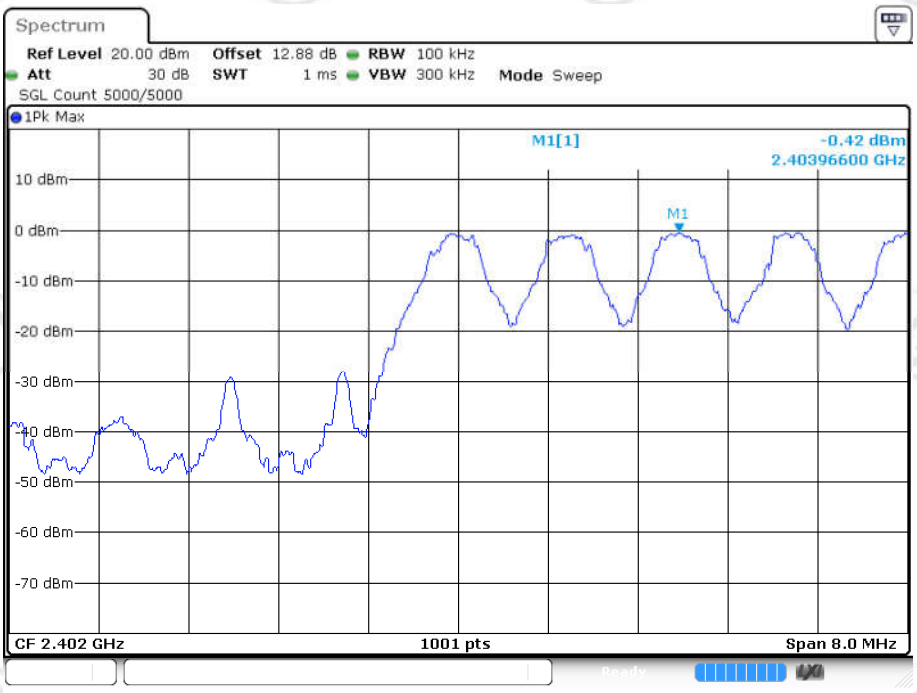
Date: 31.JAN.2024 11:12:12

Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-45.23	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-45.92	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-45.09	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-44.77	-20	Pass

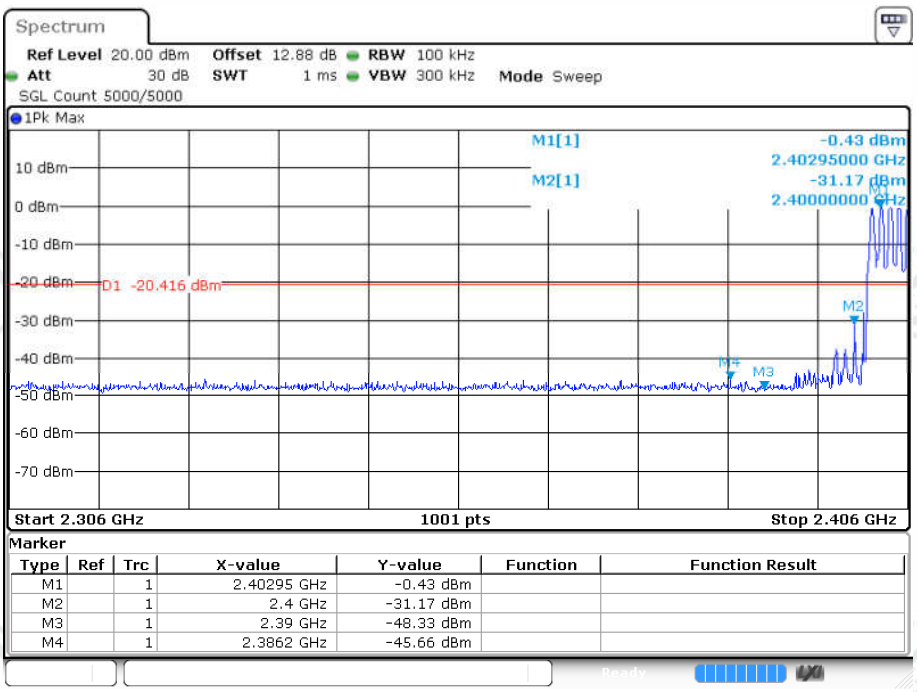
Test Graphs

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



Date: 31.JAN.2024 11:13:56

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

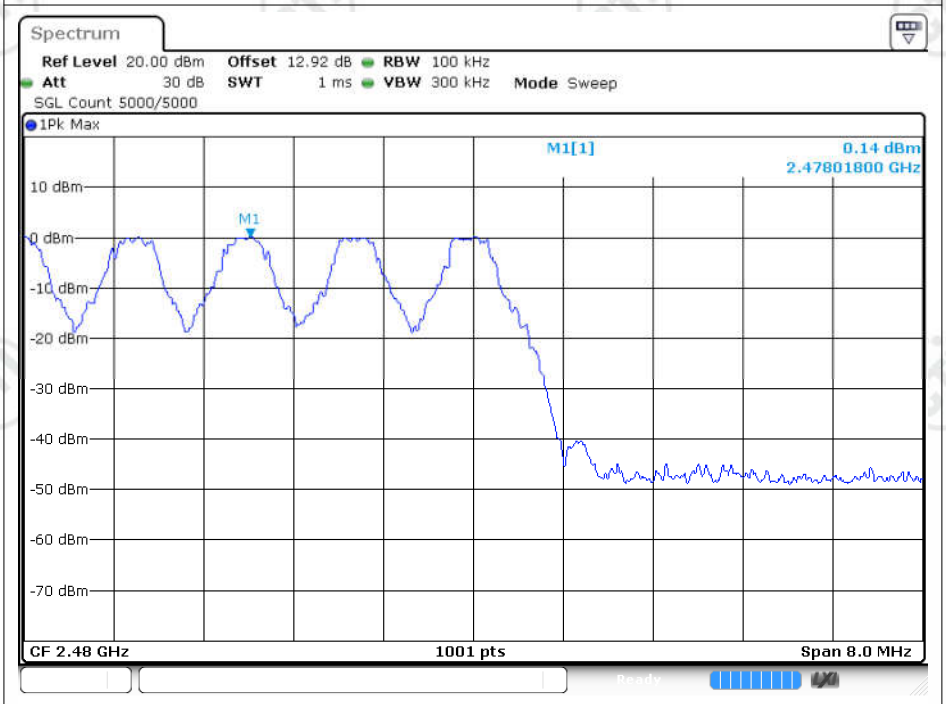


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40295 GHz	-0.43 dBm		
M2		1	2.4 GHz	-31.17 dBm		
M3		1	2.39 GHz	-48.33 dBm		
M4		1	2.3862 GHz	-45.66 dBm		

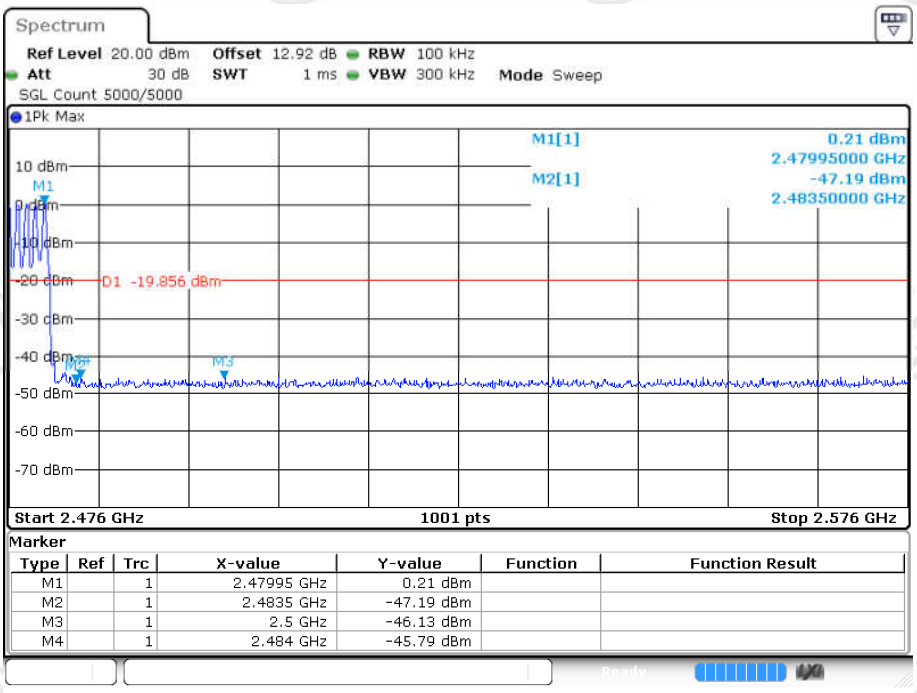
Date: 31.JAN.2024 11:14:20

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



Date: 31.JAN.2024 11:16:26

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

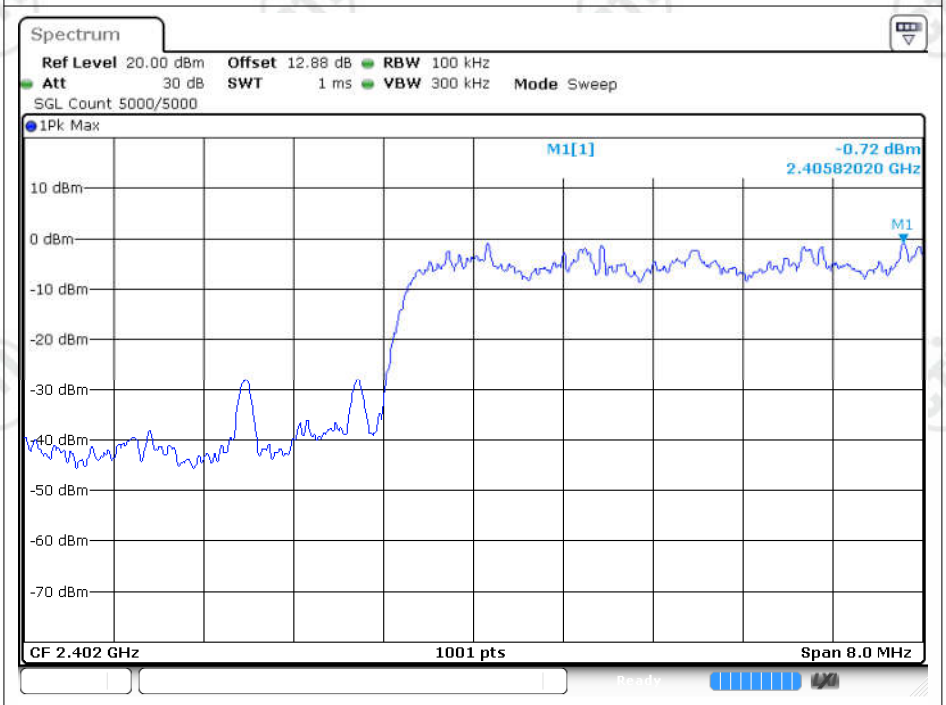


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47995 GHz	0.21 dBm		
M2		1	2.4835 GHz	-47.19 dBm		
M3		1	2.5 GHz	-46.13 dBm		
M4		1	2.484 GHz	-45.79 dBm		

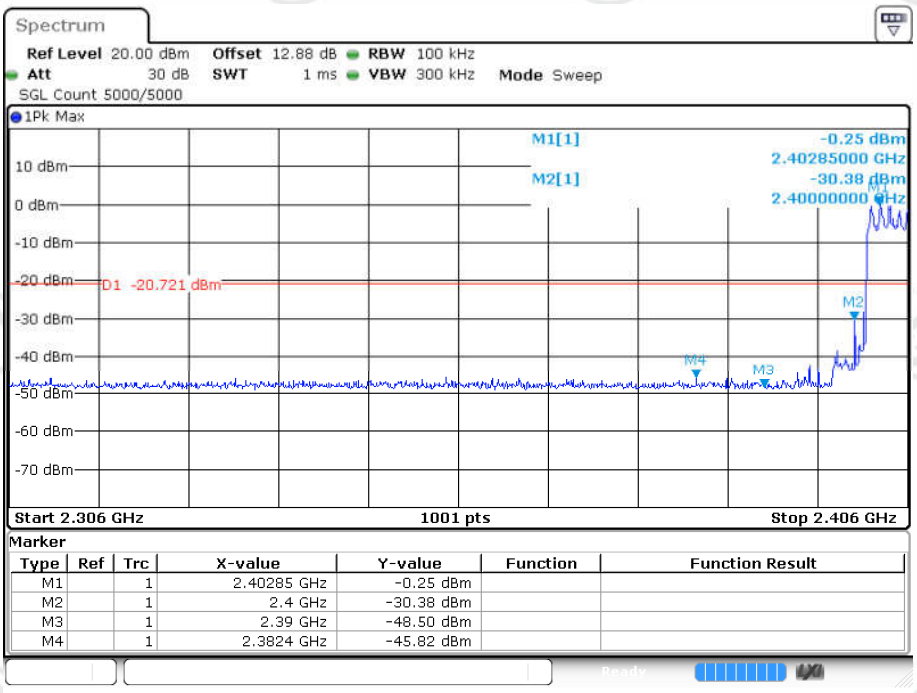
Date: 31.JAN.2024 11:16:37

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



Date: 31.JAN.2024 11:17:36

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

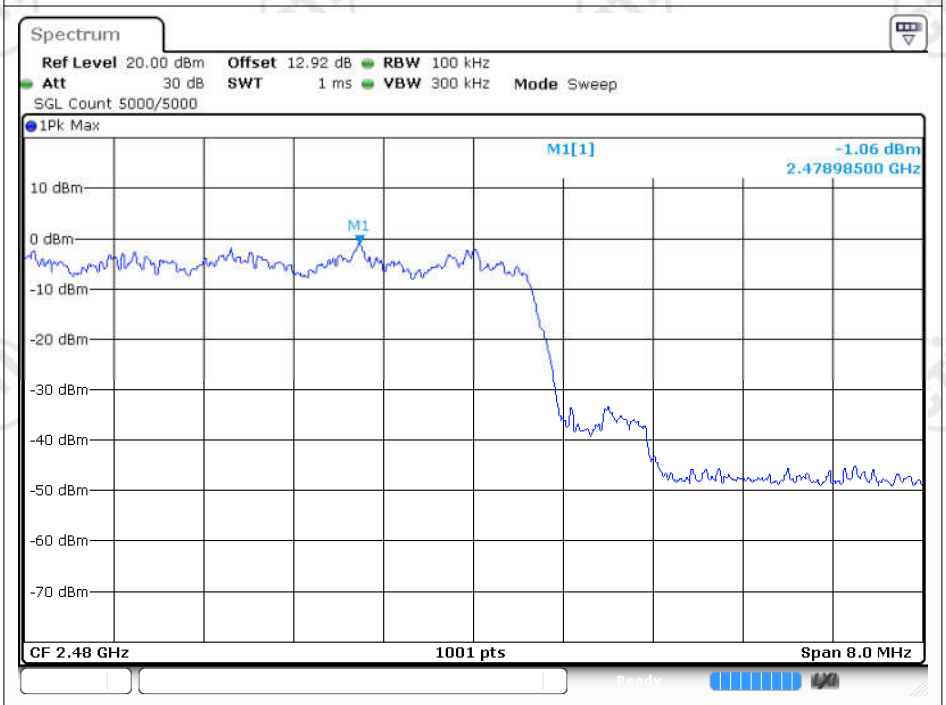


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40285 GHz	-0.25 dBm		
M2		1	2.4 GHz	-30.38 dBm		
M3		1	2.39 GHz	-48.50 dBm		
M4		1	2.3824 GHz	-45.82 dBm		

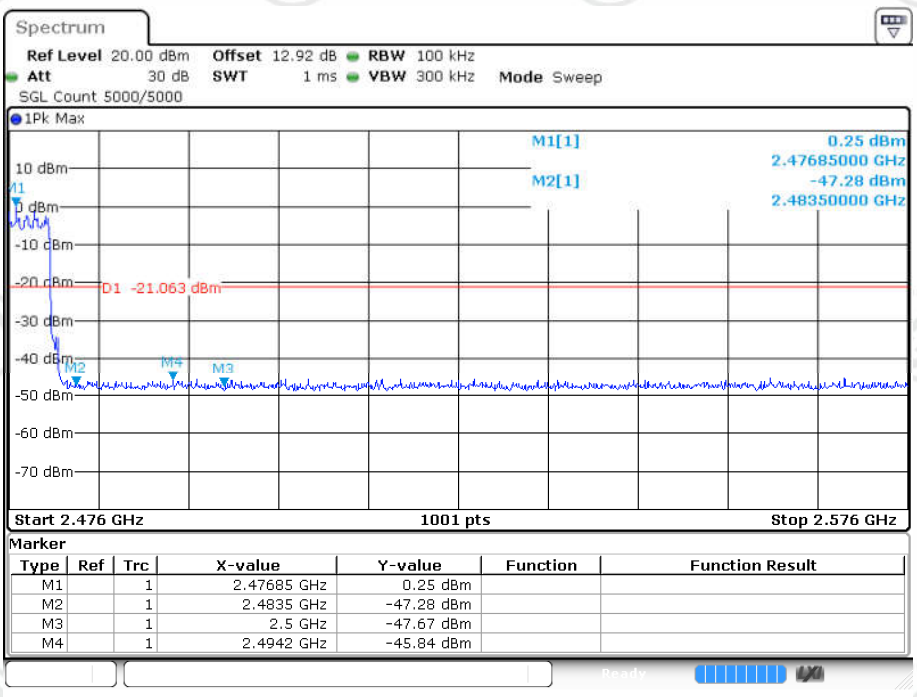
Date: 31.JAN.2024 11:18:00

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



Date: 31.JAN.2024 11:20:59

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47685 GHz	0.25 dBm		
M2		1	2.4835 GHz	-47.28 dBm		
M3		1	2.5 GHz	-47.67 dBm		
M4		1	2.4942 GHz	-45.84 dBm		

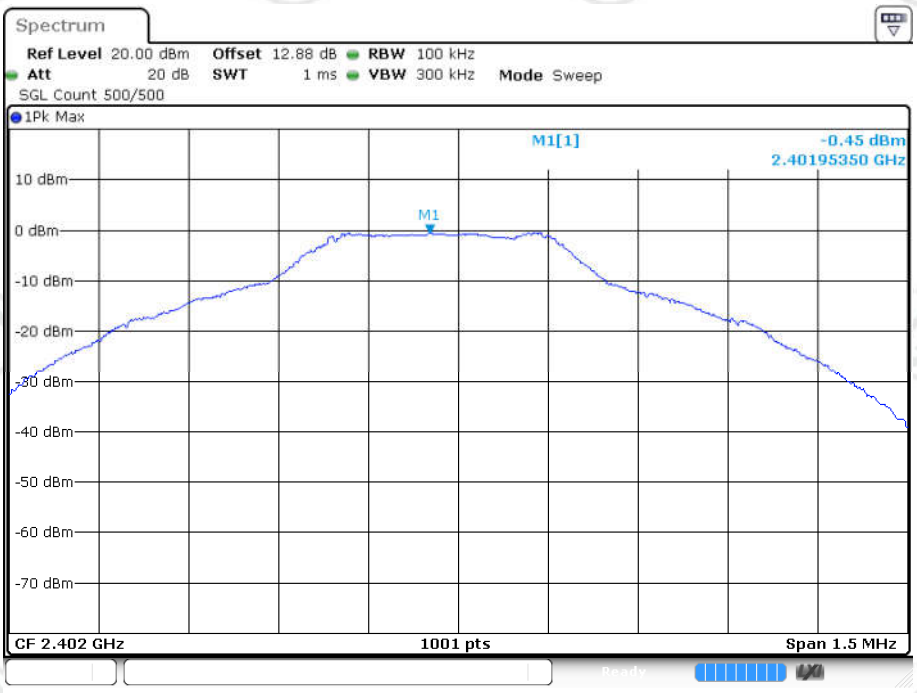
Date: 31.JAN.2024 11:21:10

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-41.14	-20	Pass
NVNT	1-DH5	2441	Ant1	-40.78	-20	Pass
NVNT	1-DH5	2480	Ant1	-42.06	-20	Pass
NVNT	2-DH5	2402	Ant1	-39.27	-20	Pass
NVNT	2-DH5	2441	Ant1	-44.85	-20	Pass
NVNT	2-DH5	2480	Ant1	-45.64	-20	Pass

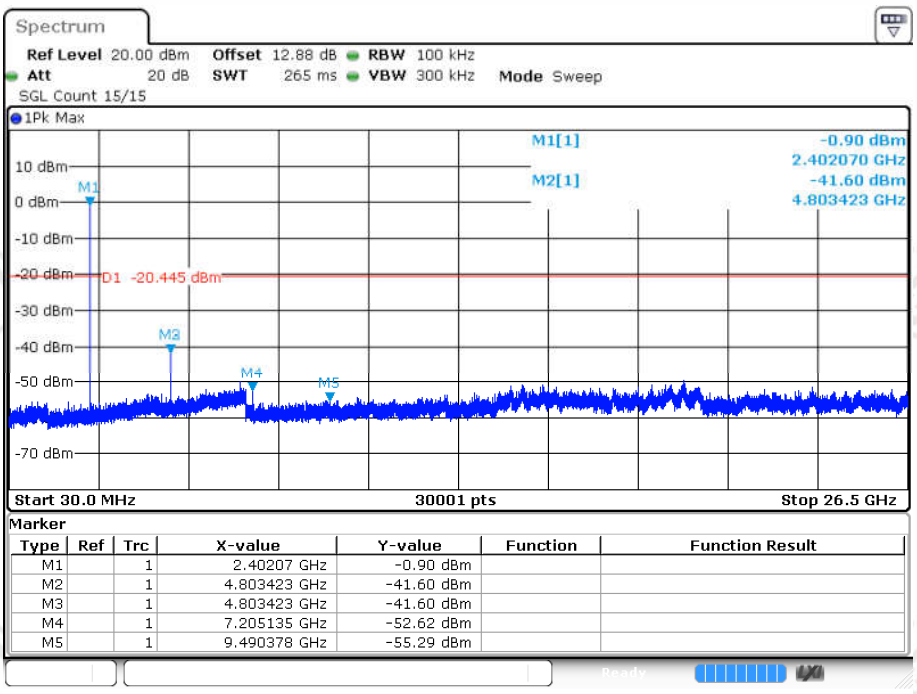
Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Date: 31.JAN.2024 11:03:15

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

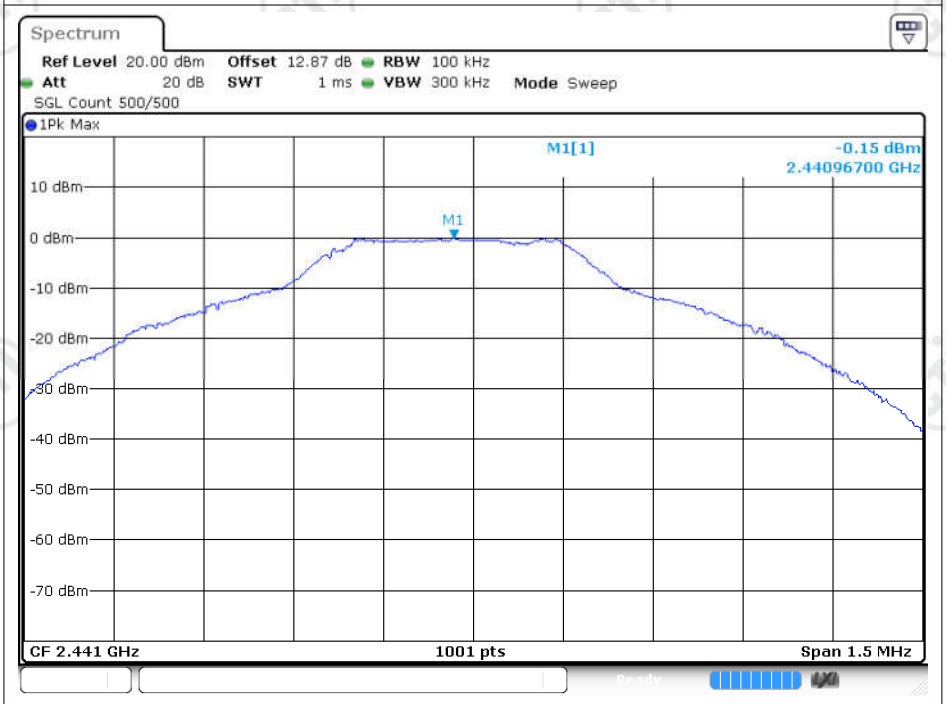


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40207 GHz	-0.90 dBm		
M2		1	4.803423 GHz	-41.60 dBm		
M3		1	4.803423 GHz	-41.60 dBm		
M4		1	7.205135 GHz	-52.62 dBm		
M5		1	9.490378 GHz	-55.29 dBm		

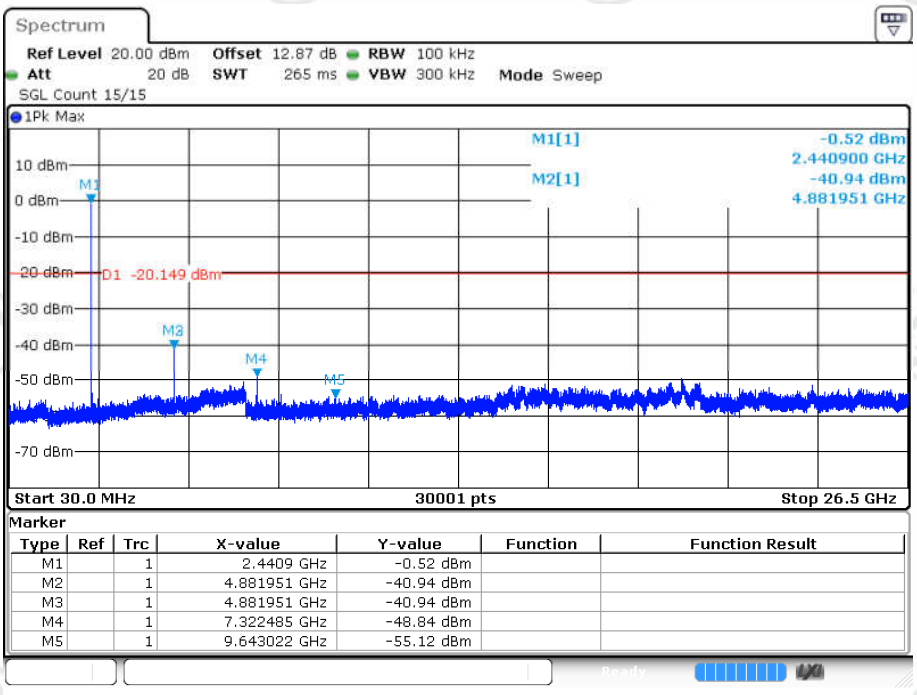
Date: 31.JAN.2024 11:03:30

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Date: 31.JAN.2024 11:05:20

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

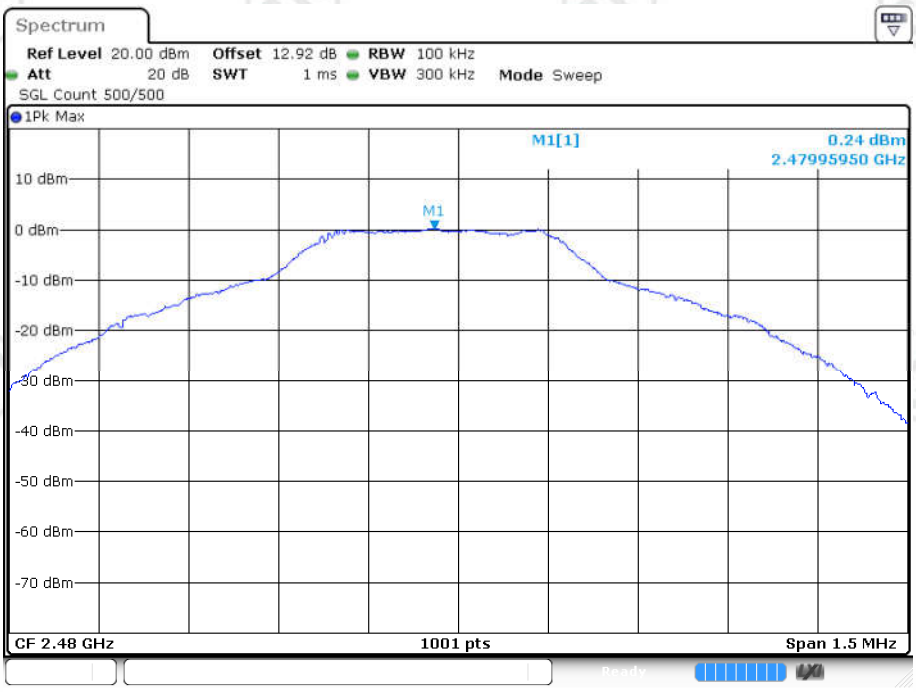


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409 GHz	-0.52 dBm		
M2		1	4.881951 GHz	-40.94 dBm		
M3		1	4.881951 GHz	-40.94 dBm		
M4		1	7.322485 GHz	-48.84 dBm		
M5		1	9.643022 GHz	-55.12 dBm		

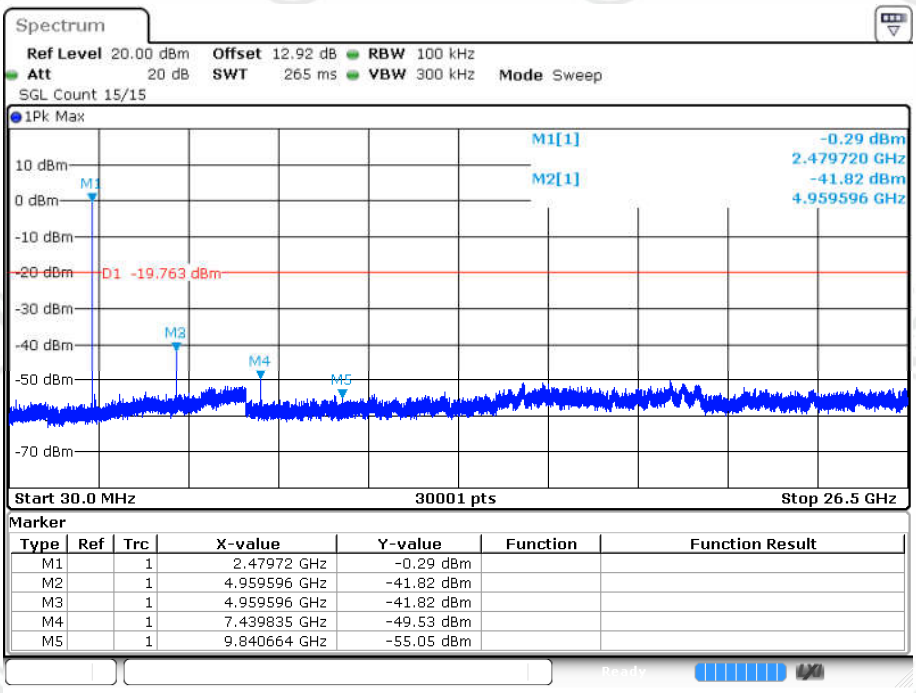
Date: 31.JAN.2024 11:05:35

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



Date: 31.JAN.2024 11:06:44

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

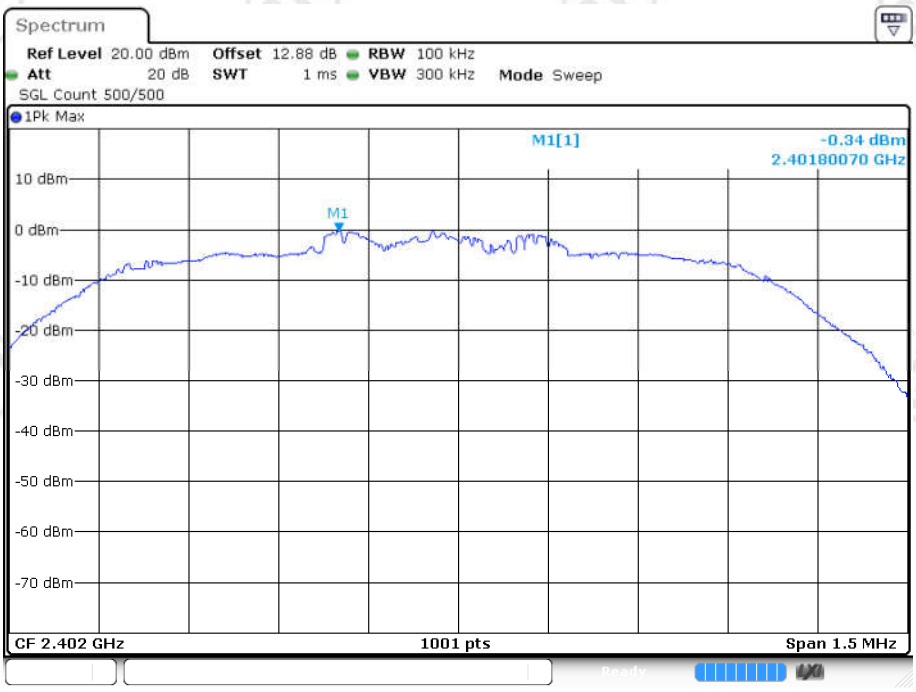


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47972 GHz	-0.29 dBm		
M2		1	4.959596 GHz	-41.82 dBm		
M3		1	4.959596 GHz	-41.82 dBm		
M4		1	7.439835 GHz	-49.53 dBm		
M5		1	9.840664 GHz	-55.05 dBm		

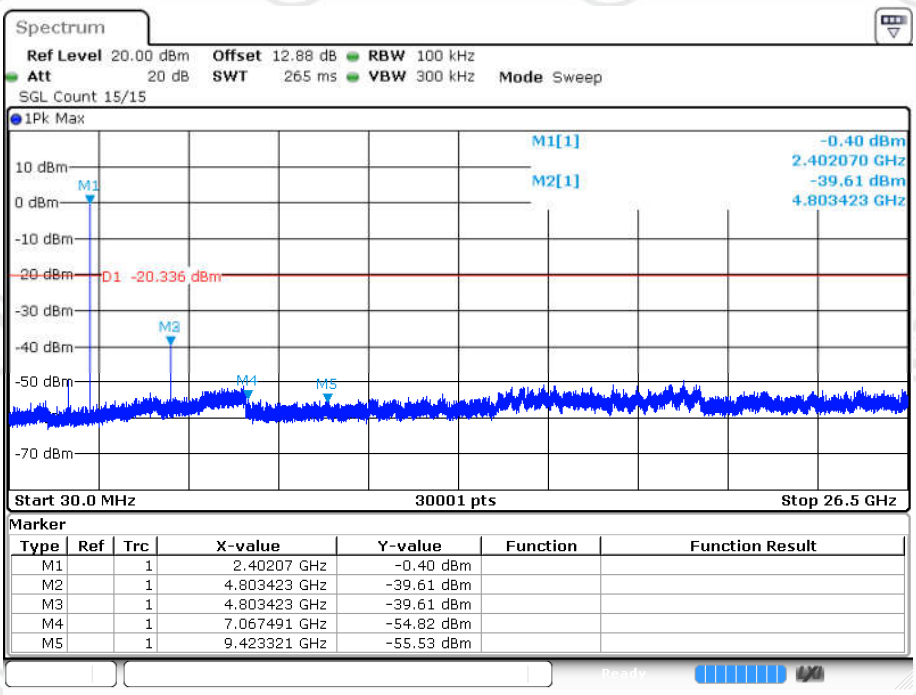
Date: 31.JAN.2024 11:07:00

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Date: 31.JAN.2024 11:08:56

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

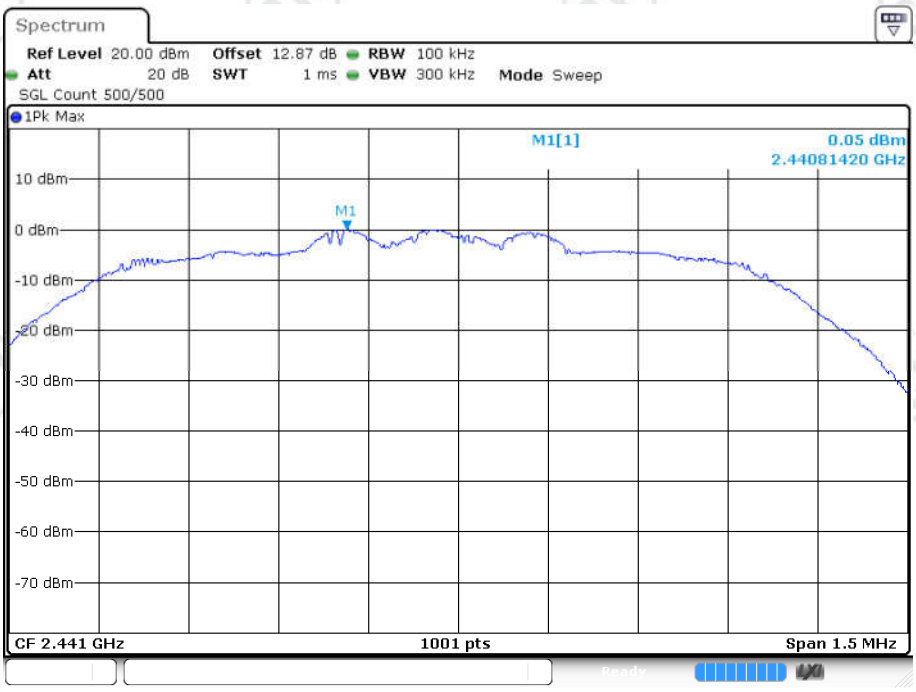


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40207 GHz	-0.40 dBm		
M2		1	4.803423 GHz	-39.61 dBm		
M3		1	4.803423 GHz	-39.61 dBm		
M4		1	7.067491 GHz	-54.82 dBm		
M5		1	9.423321 GHz	-55.53 dBm		

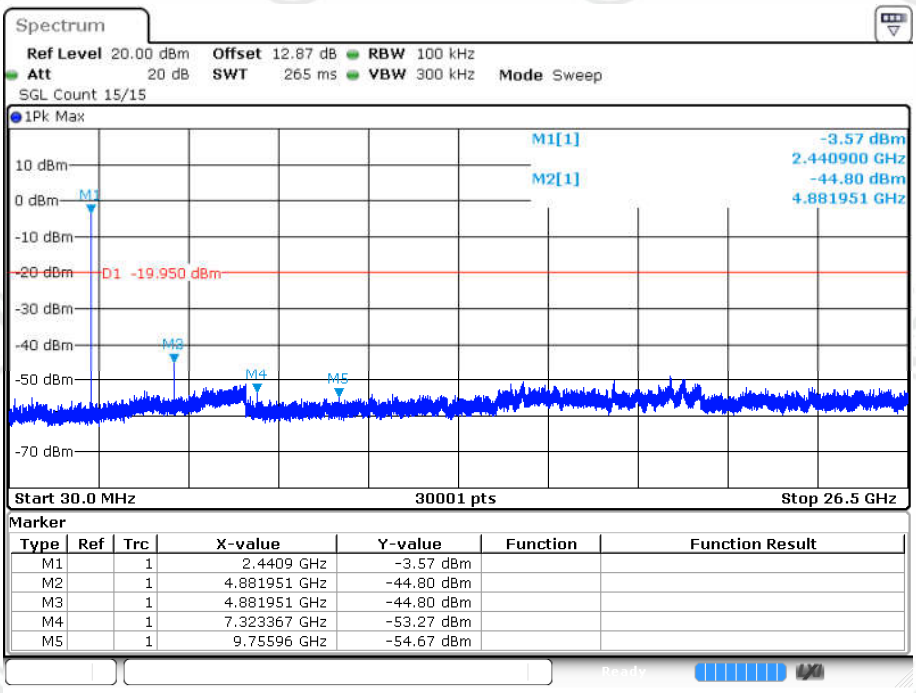
Date: 31.JAN.2024 11:09:12

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Date: 31.JAN.2024 11:10:21

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

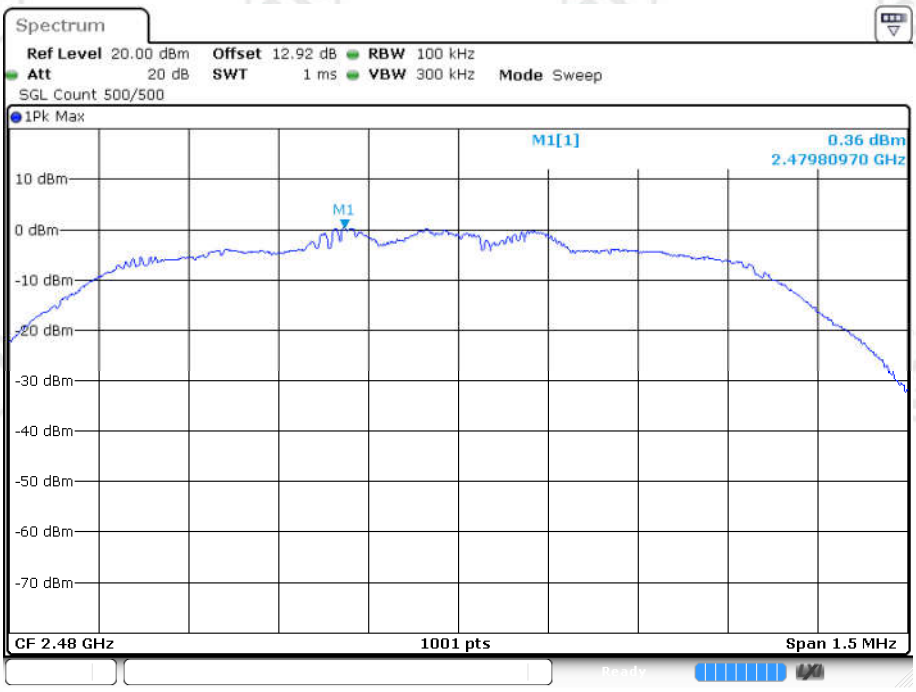


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4409 GHz	-3.57 dBm		
M2		1	4.881951 GHz	-44.80 dBm		
M3		1	4.881951 GHz	-44.80 dBm		
M4		1	7.323367 GHz	-53.27 dBm		
M5		1	9.75596 GHz	-54.67 dBm		

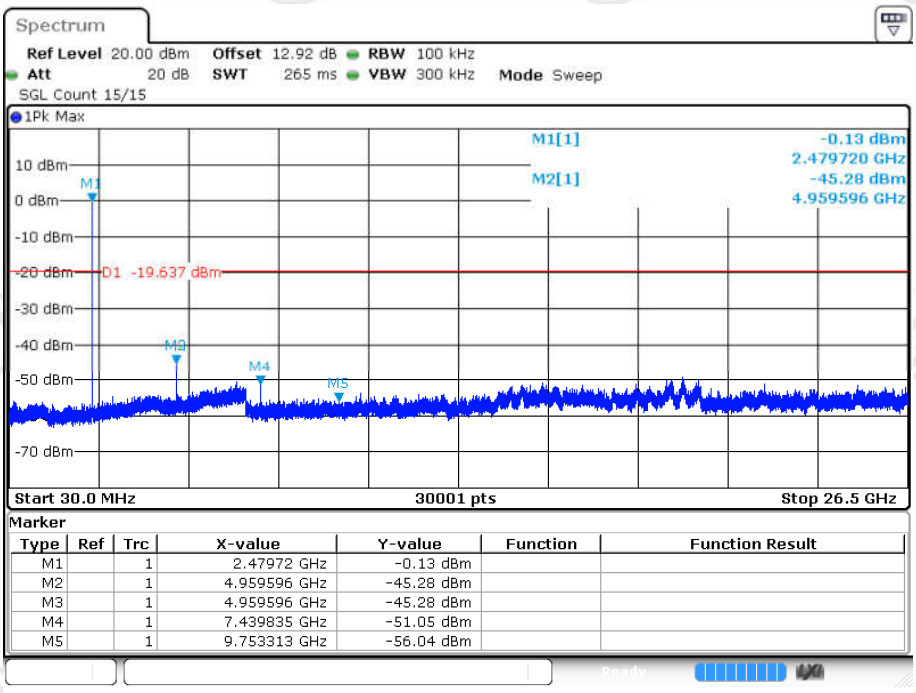
Date: 31.JAN.2024 11:10:37

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



Date: 31.JAN.2024 11:12:16

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47972 GHz	-0.13 dBm		
M2		1	4.959596 GHz	-45.28 dBm		
M3		1	4.959596 GHz	-45.28 dBm		
M4		1	7.439835 GHz	-51.05 dBm		
M5		1	9.753313 GHz	-56.04 dBm		

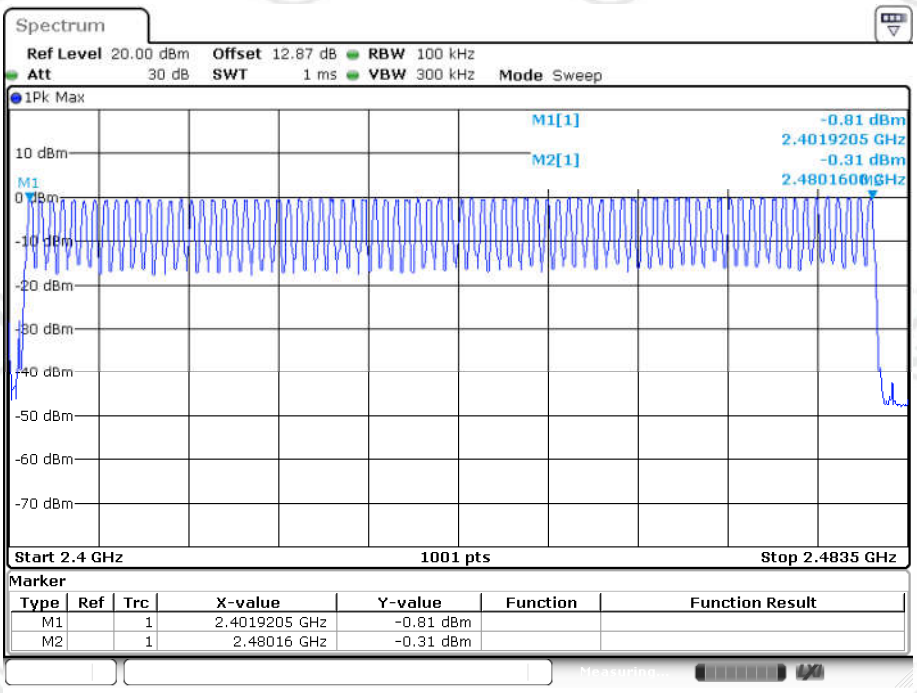
Date: 31.JAN.2024 11:12:32

Number of Hopping Channel

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

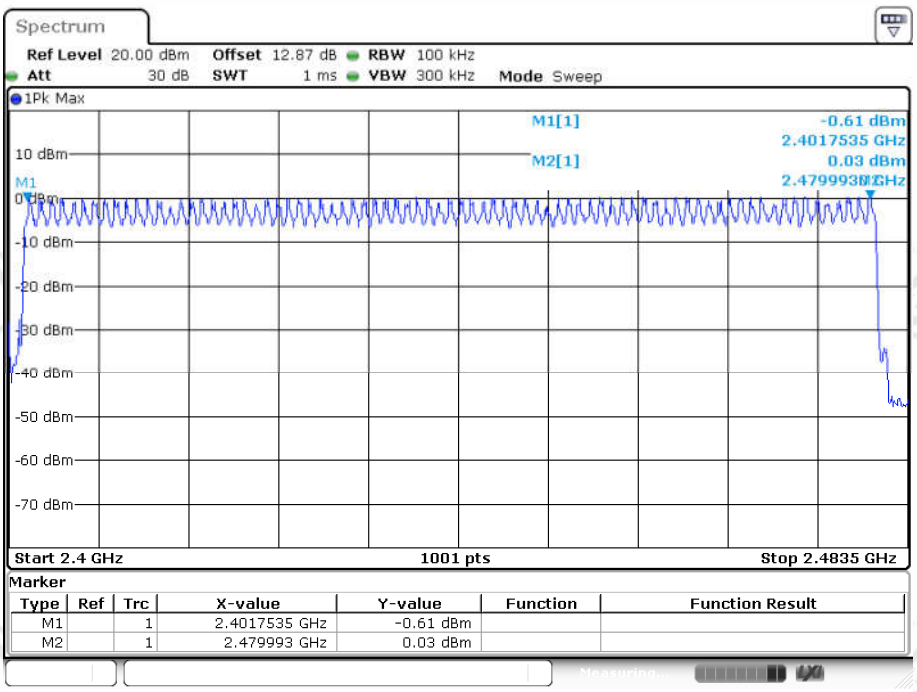
Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:14:59

Hopping No. NVNT 2-DH5 2441MHz Ant1



Date: 31.JAN.2024 11:23:57

END OF REPORT