

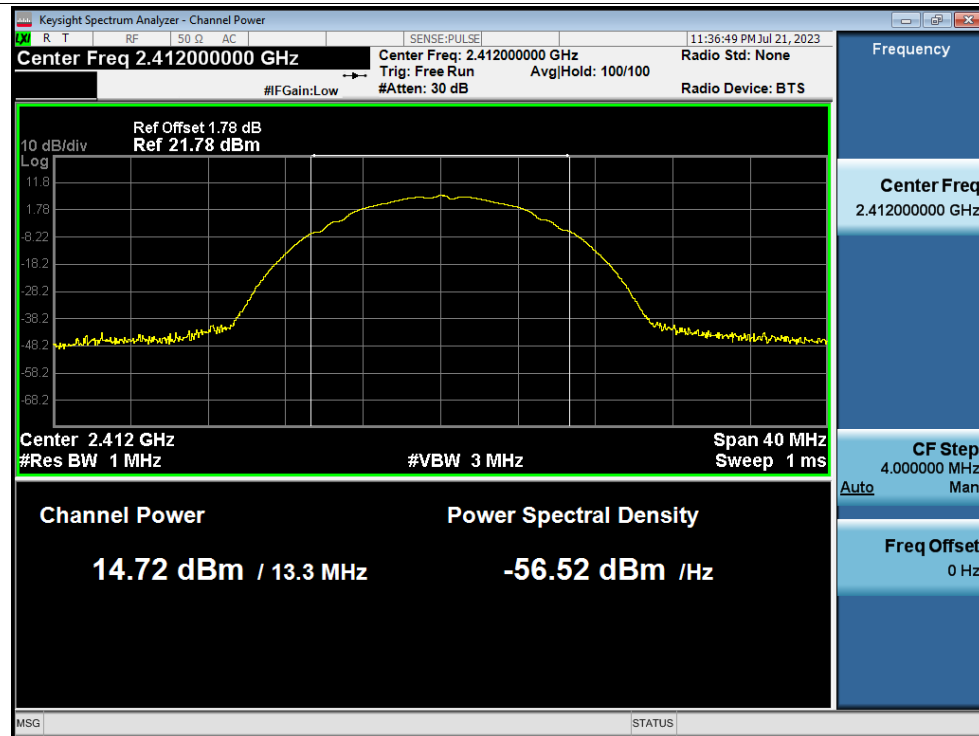
Appendix A

7.1 Maximum Conducted Output Power

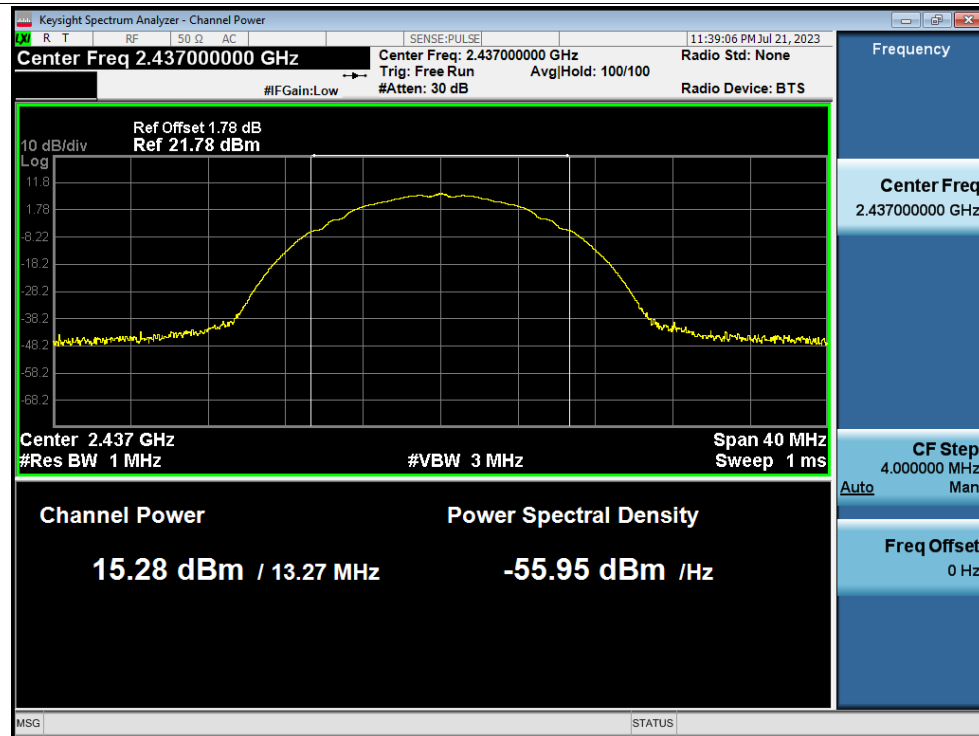
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.72	0	14.72	30	Pass
NVNT	b	2437	Ant1	15.28	0	15.28	30	Pass
NVNT	b	2462	Ant1	15.4	0	15.4	30	Pass
NVNT	g	2412	Ant1	14.21	0	14.21	30	Pass
NVNT	g	2437	Ant1	14.89	0	14.89	30	Pass
NVNT	g	2462	Ant1	15.12	0	15.12	30	Pass
NVNT	n20	2412	Ant1	14.33	0	14.33	30	Pass
NVNT	n20	2437	Ant1	15.04	0	15.04	30	Pass
NVNT	n20	2462	Ant1	15.28	0	15.28	30	Pass
NVNT	n40	2422	Ant1	13.62	0	13.62	30	Pass
NVNT	n40	2437	Ant1	13.87	0	13.87	30	Pass
NVNT	n40	2452	Ant1	13.96	0	13.96	30	Pass

Test Graphs

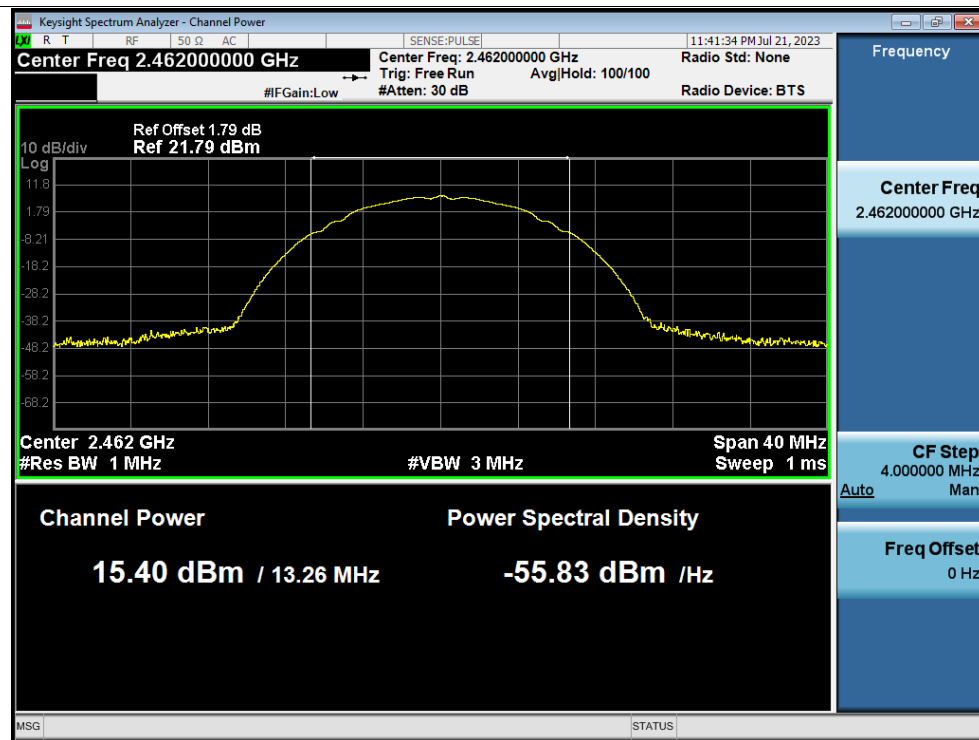
Power NVNT b 2412MHz Ant1



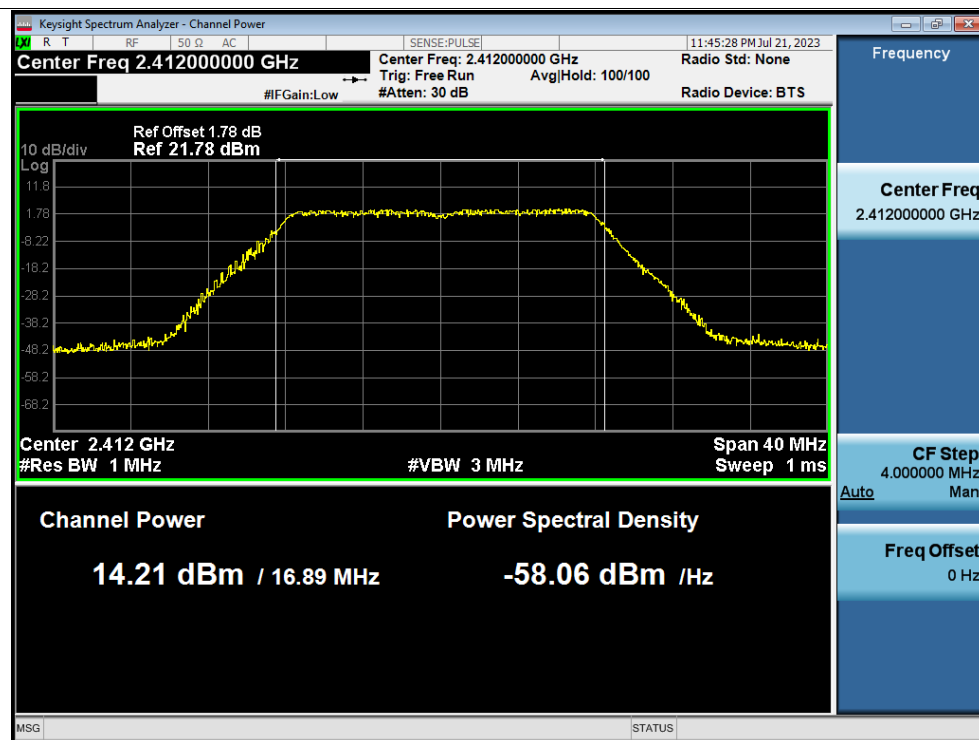
Power NVNT b 2437MHz Ant1



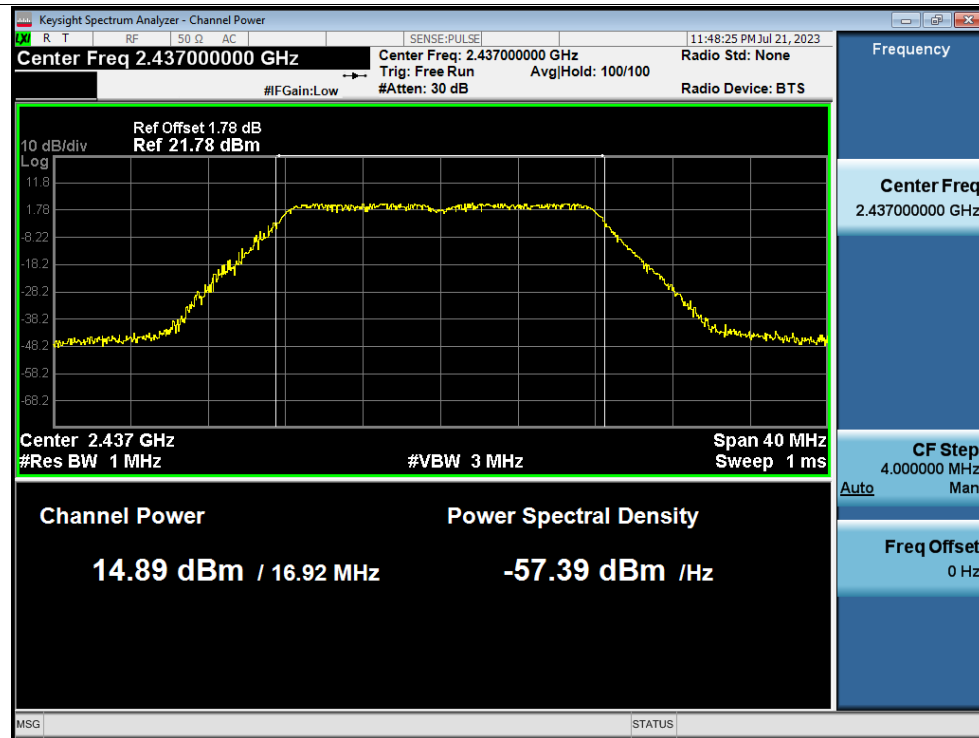
Power NVNT b 2462MHz Ant1



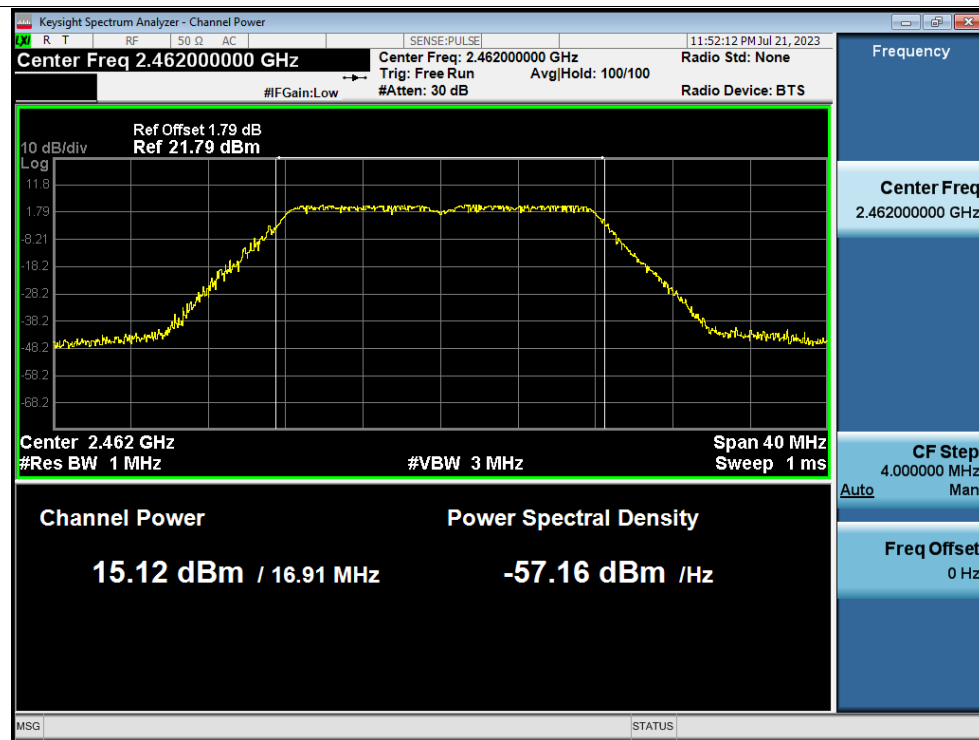
Power NVNT g 2412MHz Ant1



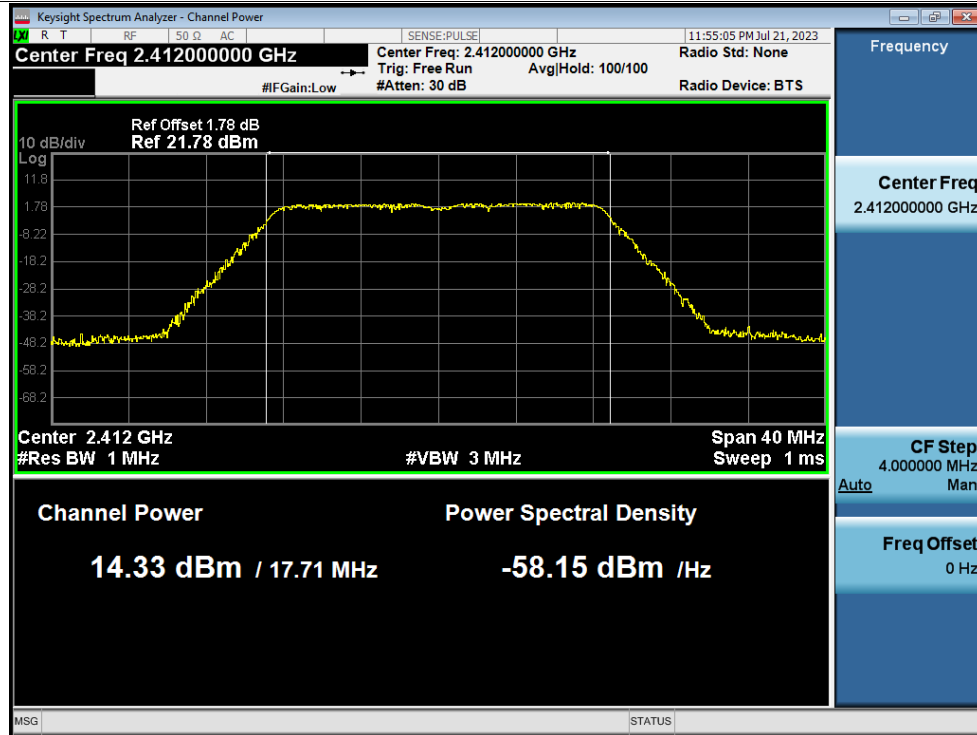
Power NVNT g 2437MHz Ant1



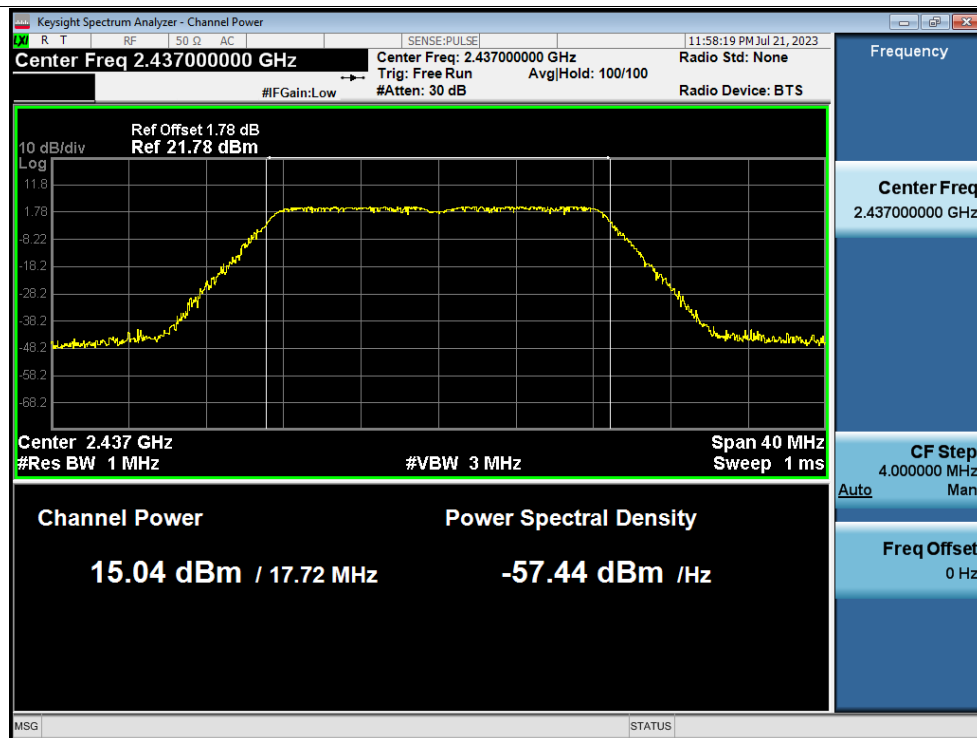
Power NVNT g 2462MHz Ant1



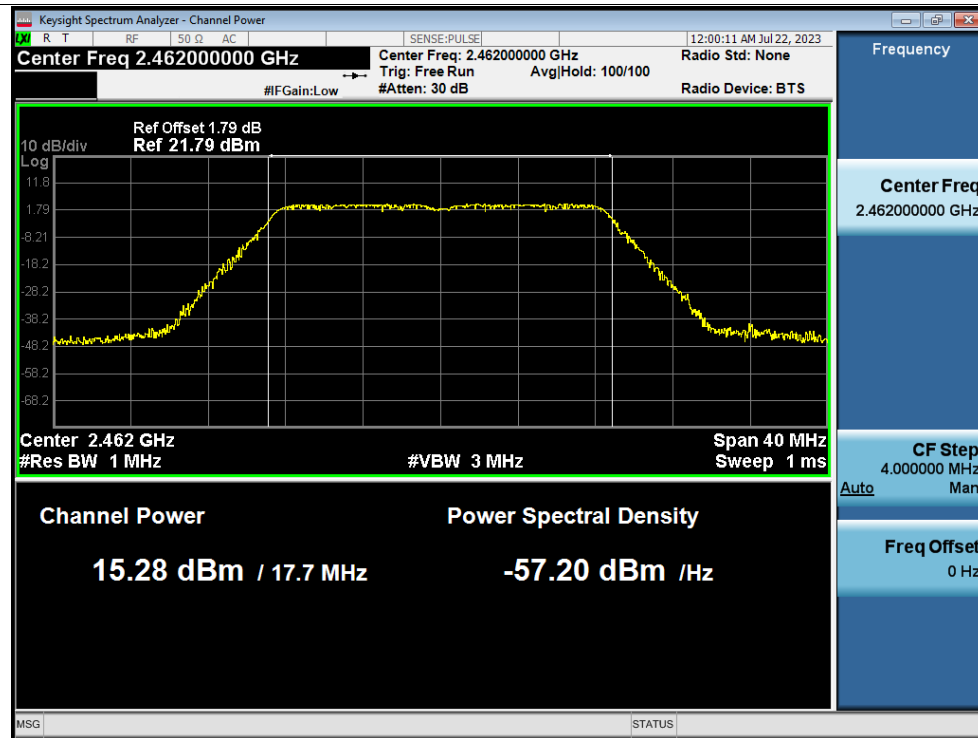
Power NVNT n20 2412MHz Ant1



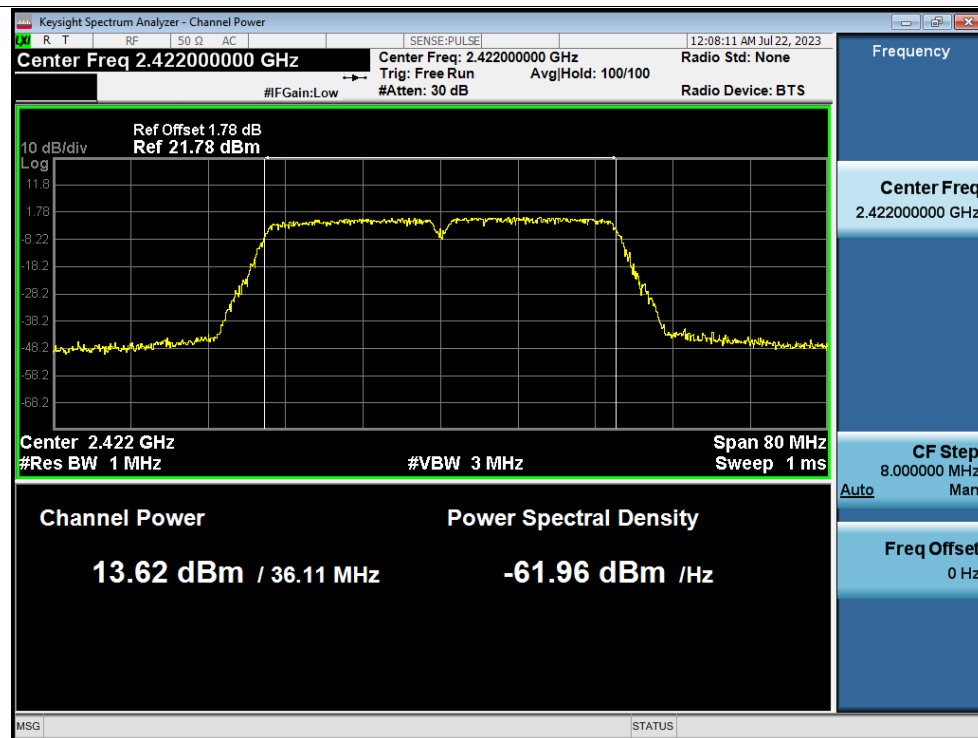
Power NVNT n20 2437MHz Ant1



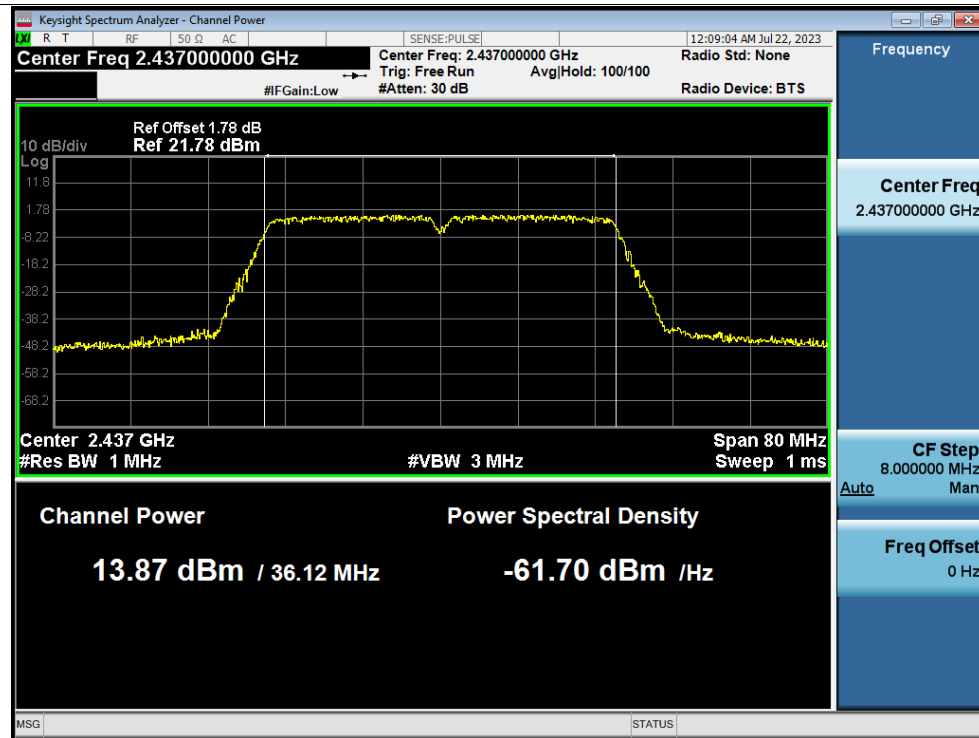
Power NVNT n20 2462MHz Ant1



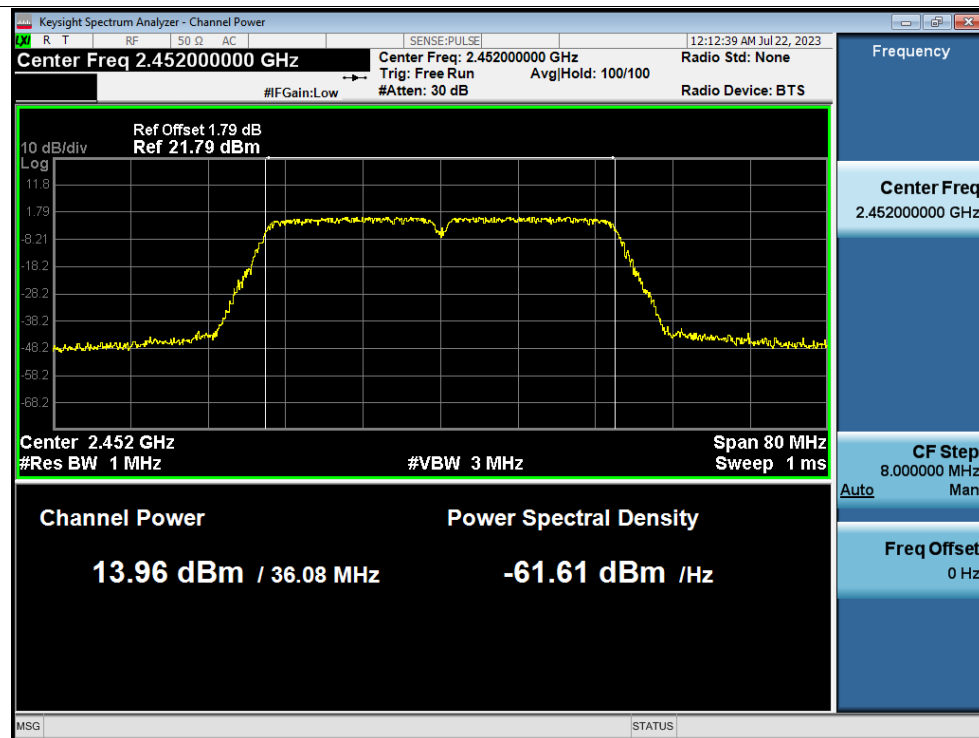
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



Power NVNT n40 2452MHz Ant1



7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.056	0.5	Pass
NVNT	b	2437	Ant1	8.993	0.5	Pass
NVNT	b	2462	Ant1	9.011	0.5	Pass
NVNT	g	2412	Ant1	16.548	0.5	Pass
NVNT	g	2437	Ant1	16.561	0.5	Pass
NVNT	g	2462	Ant1	16.54	0.5	Pass
NVNT	n20	2412	Ant1	17.77	0.5	Pass
NVNT	n20	2437	Ant1	17.746	0.5	Pass
NVNT	n20	2462	Ant1	17.721	0.5	Pass
NVNT	n40	2422	Ant1	36.364	0.5	Pass
NVNT	n40	2437	Ant1	36.418	0.5	Pass
NVNT	n40	2452	Ant1	36.398	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



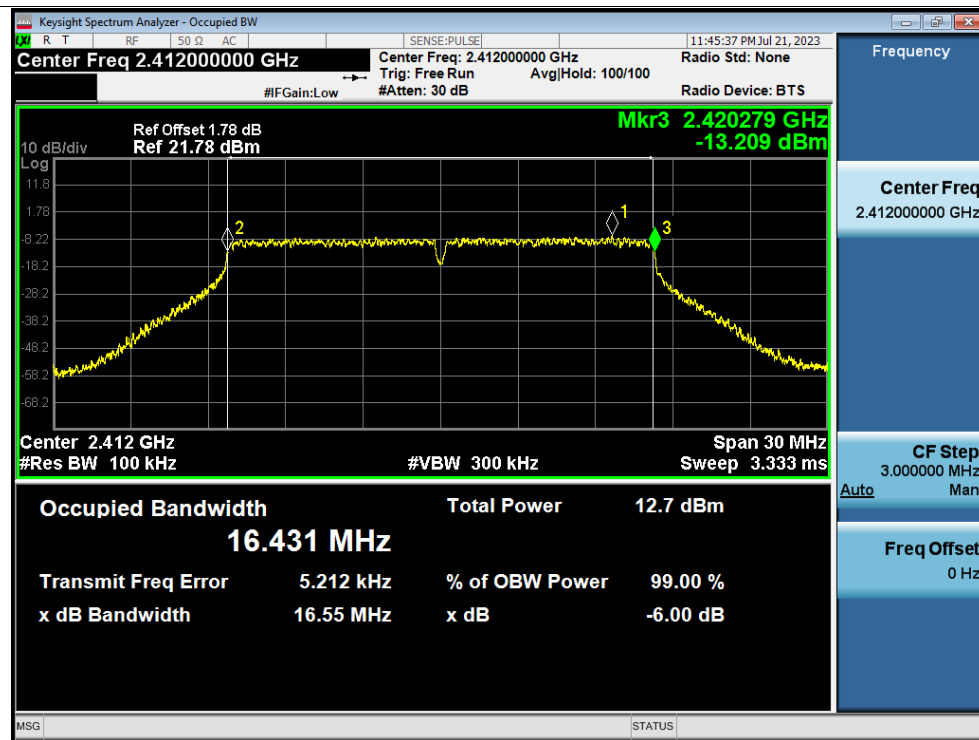
-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant1



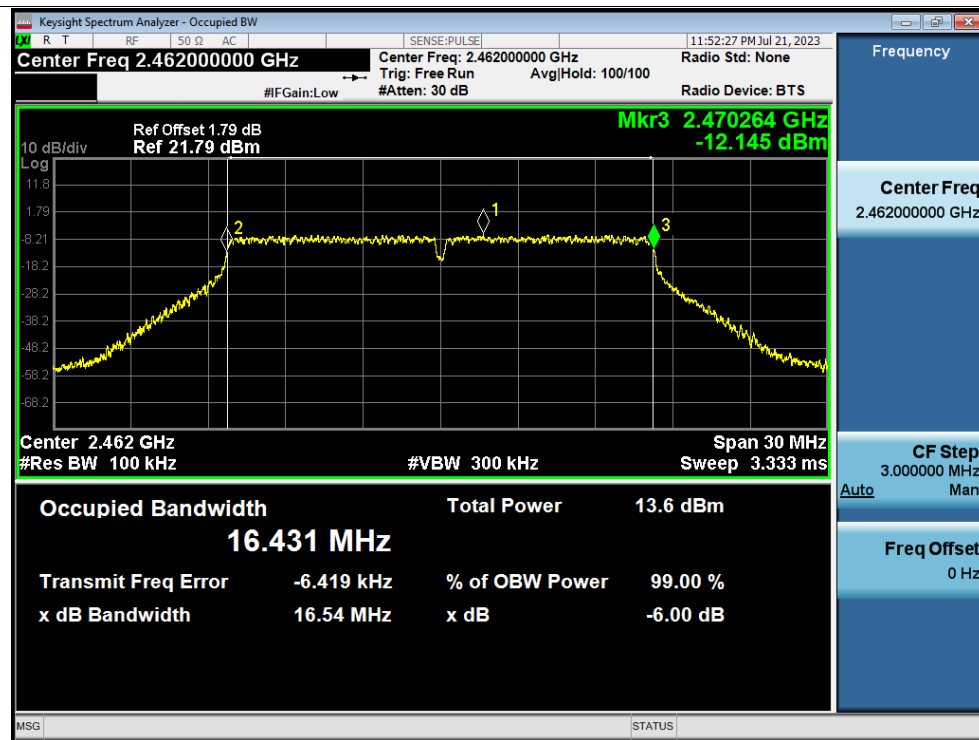
-6dB Bandwidth NVNT g 2412MHz Ant1



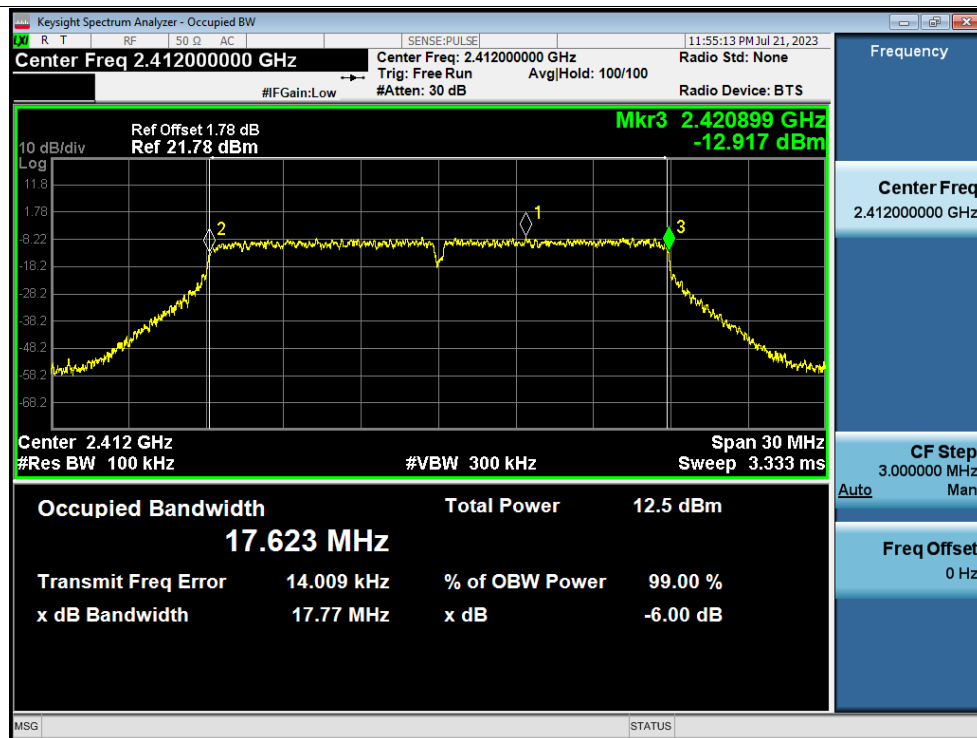
-6dB Bandwidth NVNT g 2437MHz Ant1



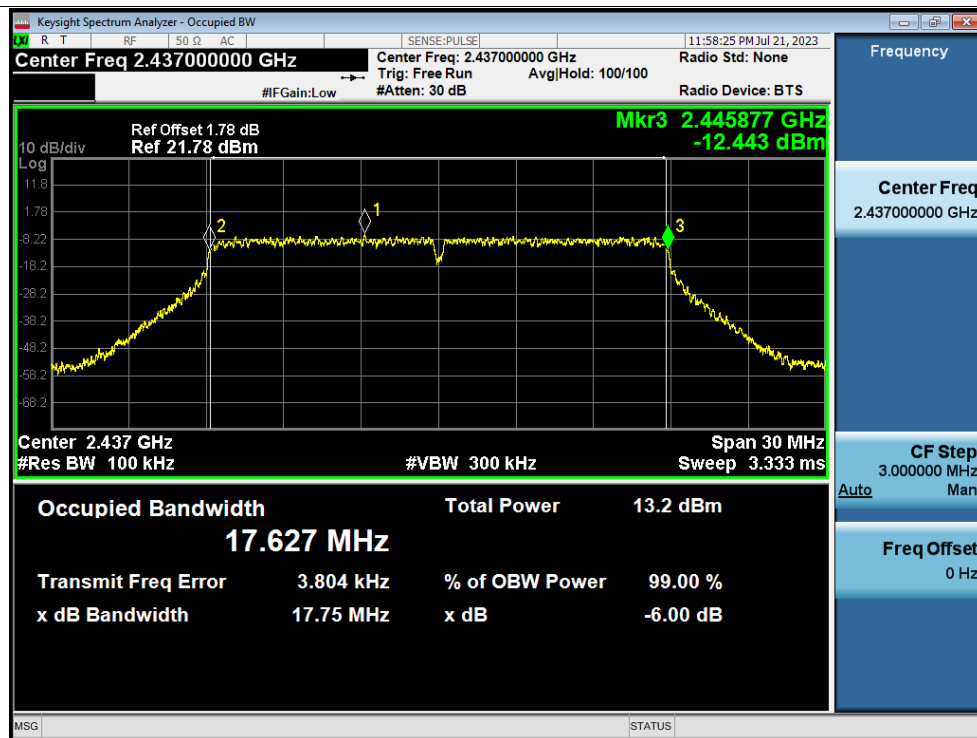
-6dB Bandwidth NVNT g 2462MHz Ant1



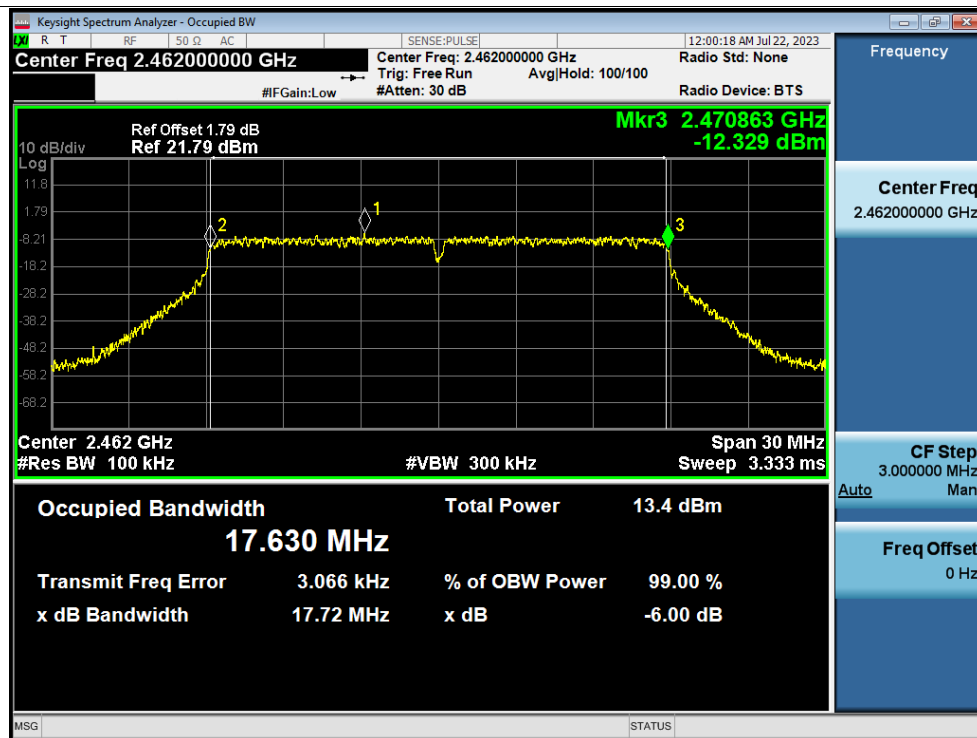
-6dB Bandwidth NVNT n20 2412MHz Ant1



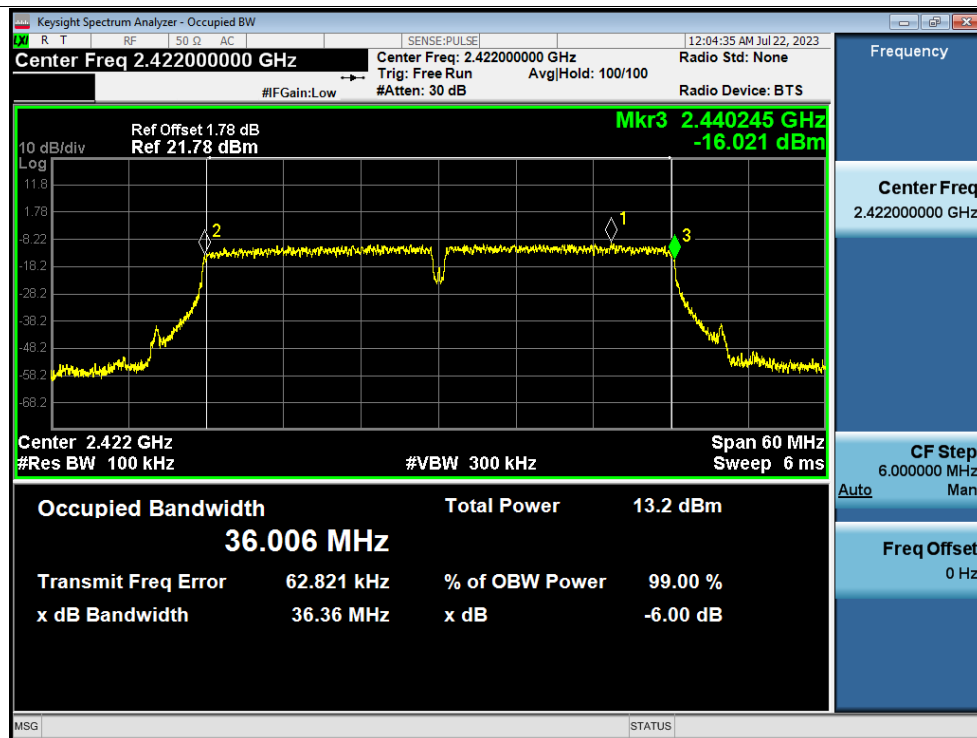
-6dB Bandwidth NVNT n20 2437MHz Ant1



-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

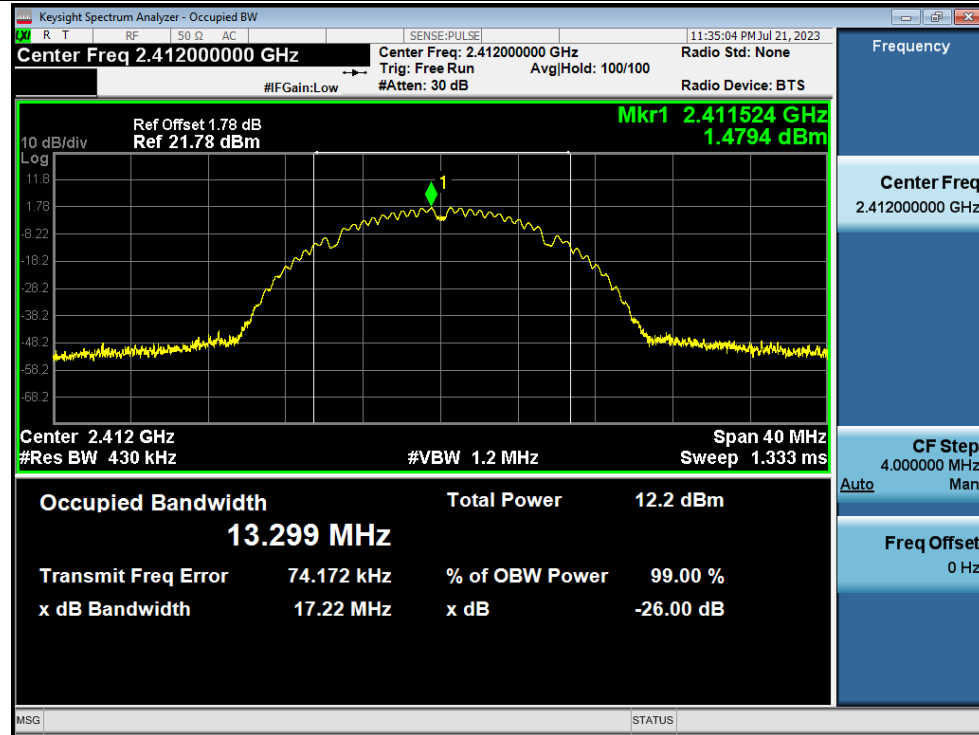


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.299
NVNT	b	2437	Ant1	13.274
NVNT	b	2462	Ant1	13.259
NVNT	g	2412	Ant1	16.892
NVNT	g	2437	Ant1	16.924
NVNT	g	2462	Ant1	16.905
NVNT	n20	2412	Ant1	17.708
NVNT	n20	2437	Ant1	17.715
NVNT	n20	2462	Ant1	17.701
NVNT	n40	2422	Ant1	36.11
NVNT	n40	2437	Ant1	36.116
NVNT	n40	2452	Ant1	36.084

Test Graphs

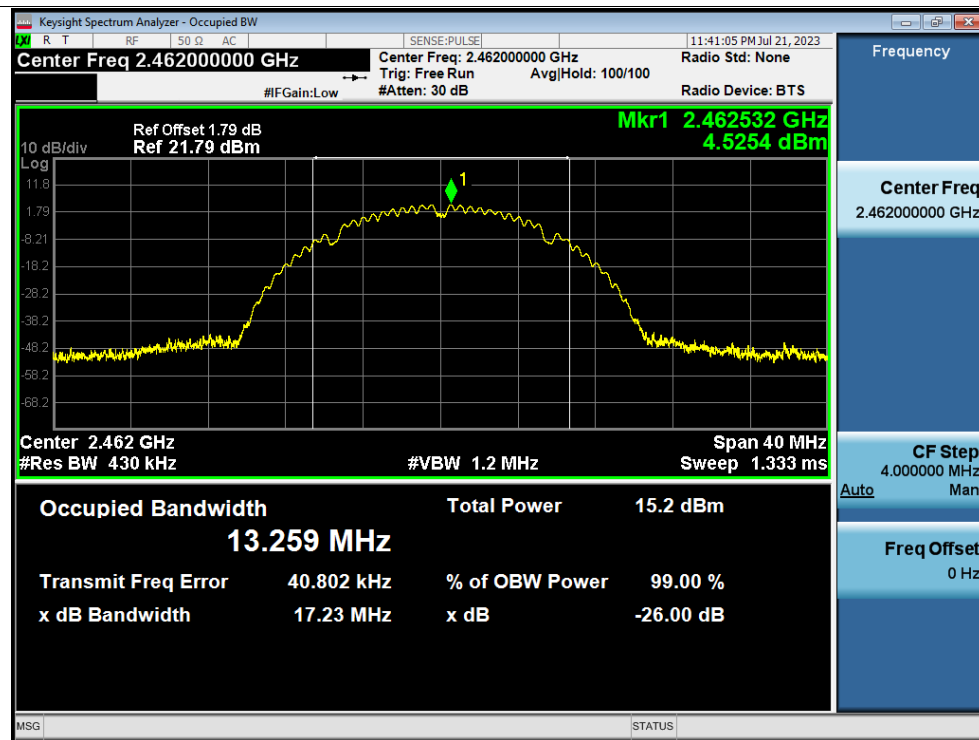
OBW NVNT b 2412MHz Ant1



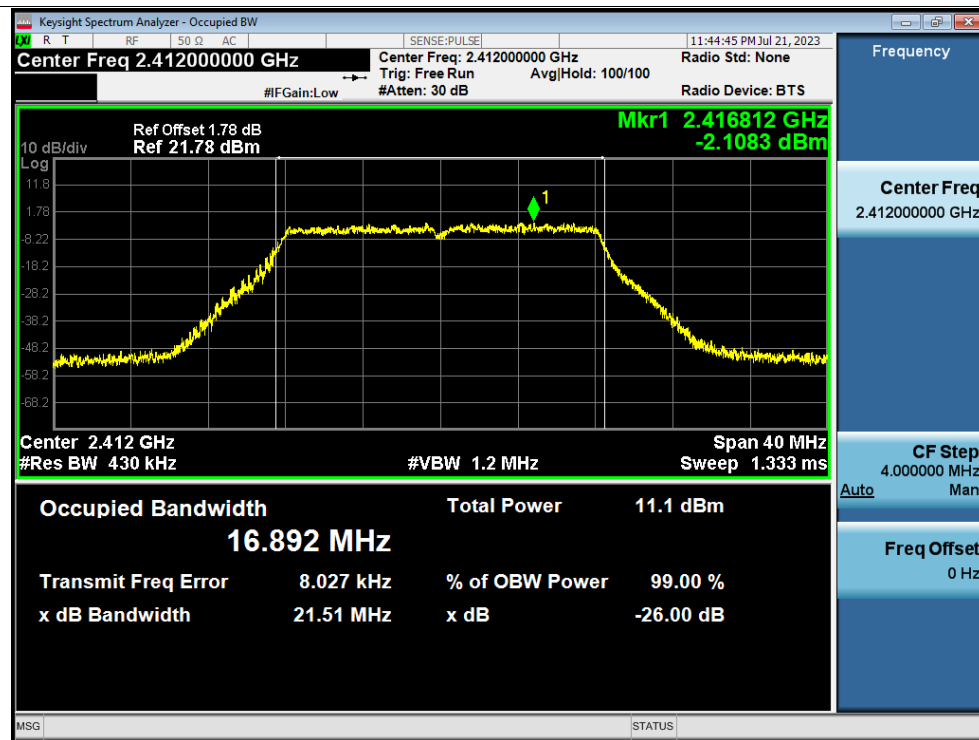
OBW NVNT b 2437MHz Ant1



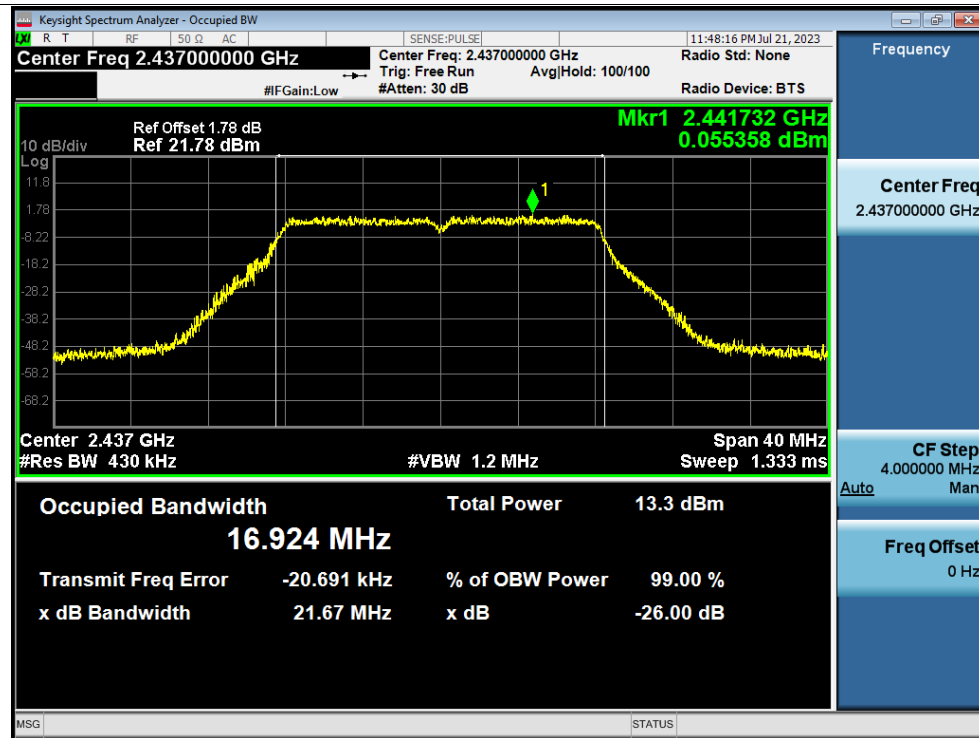
OBW NVNT b 2462MHz Ant1



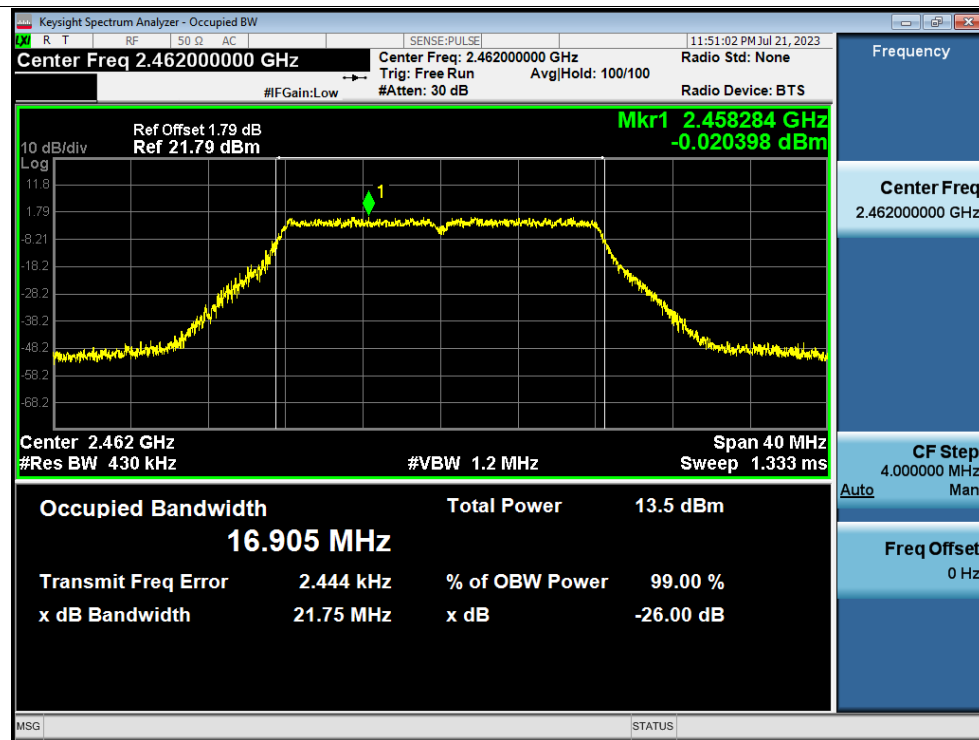
OBW NVNT g 2412MHz Ant1



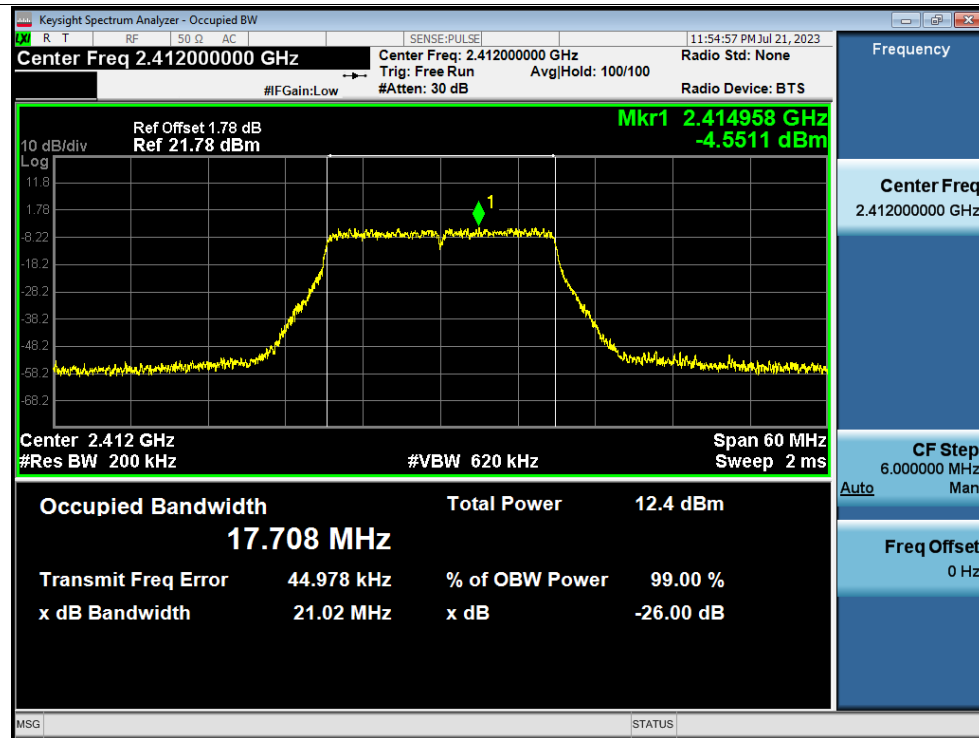
OBW NVNT g 2437MHz Ant1



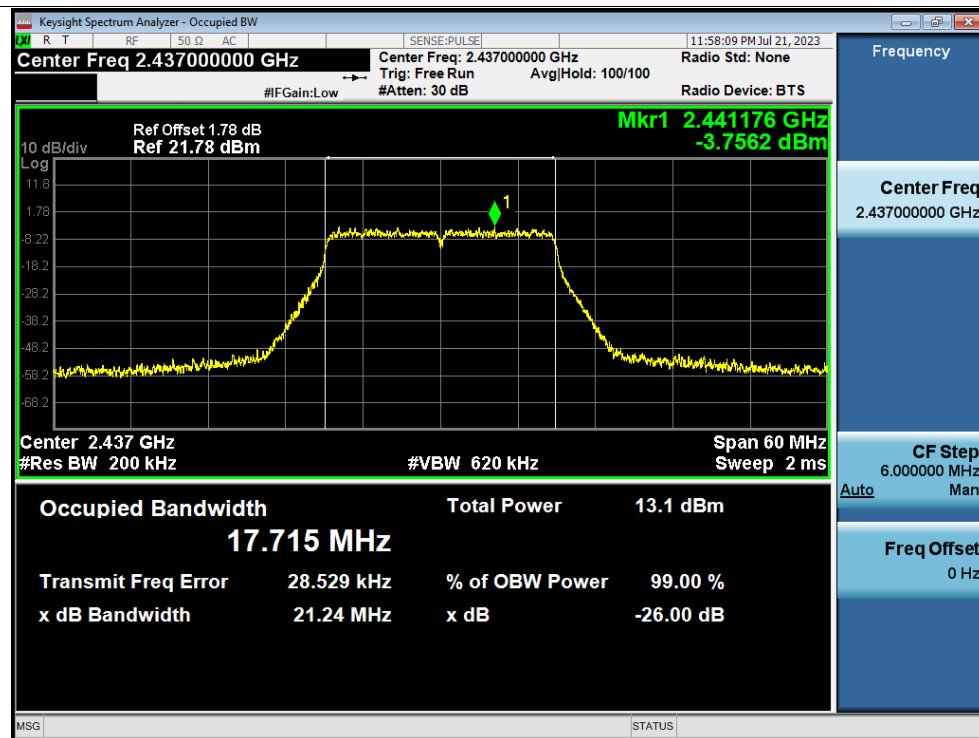
OBW NVNT g 2462MHz Ant1



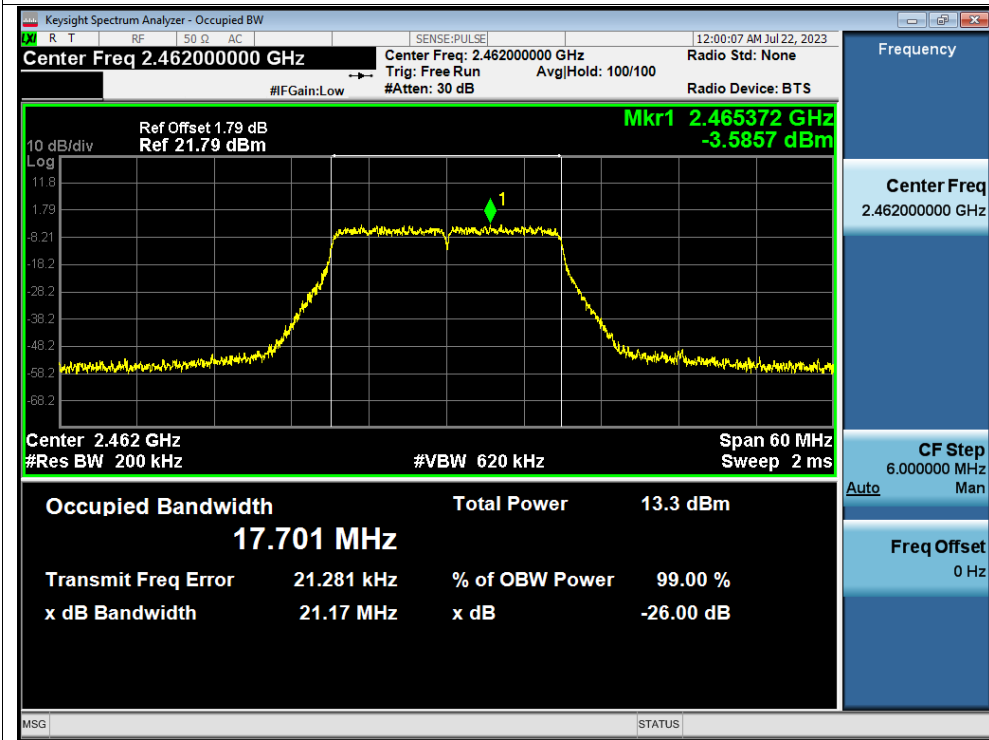
OBW NVNT n20 2412MHz Ant1



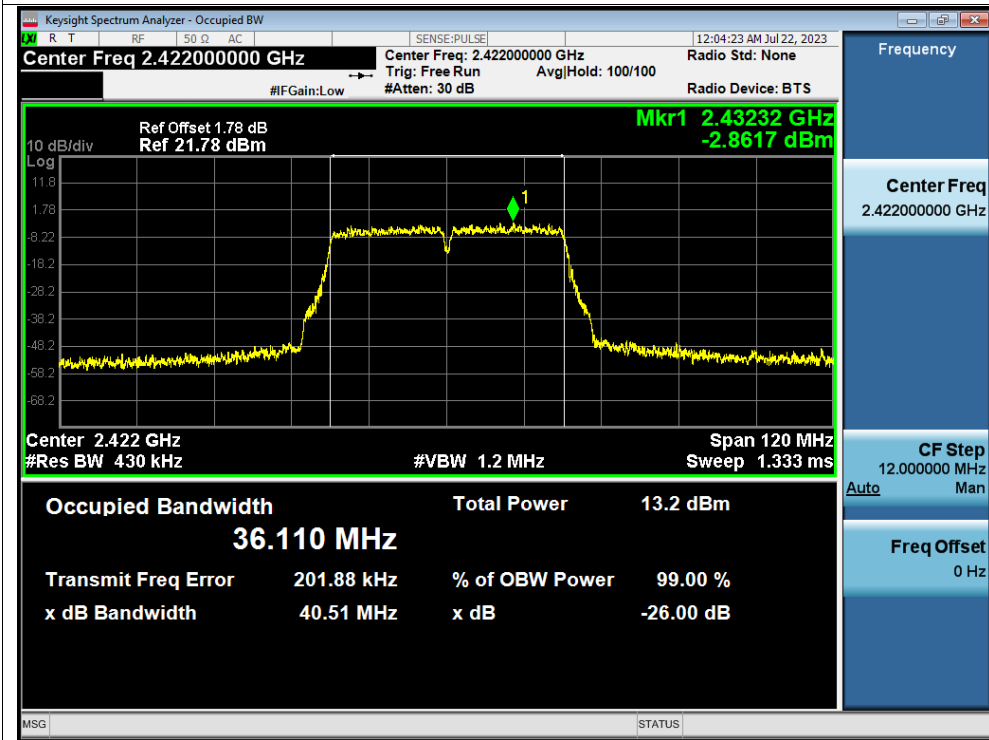
OBW NVNT n20 2437MHz Ant1



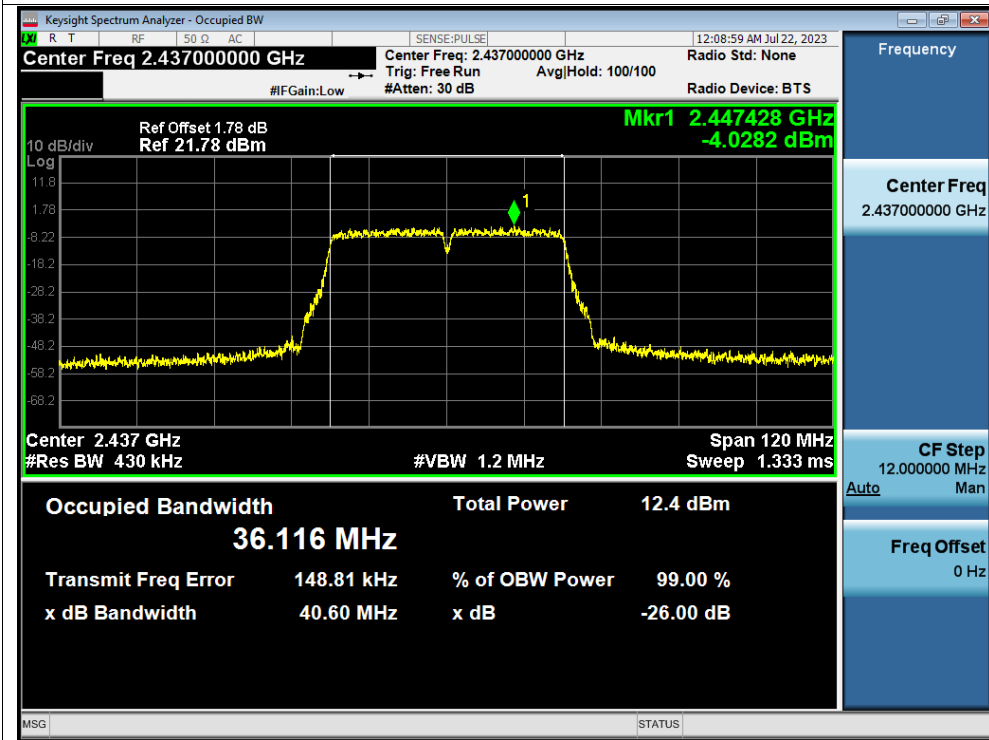
OBW NVNT n20 2462MHz Ant1



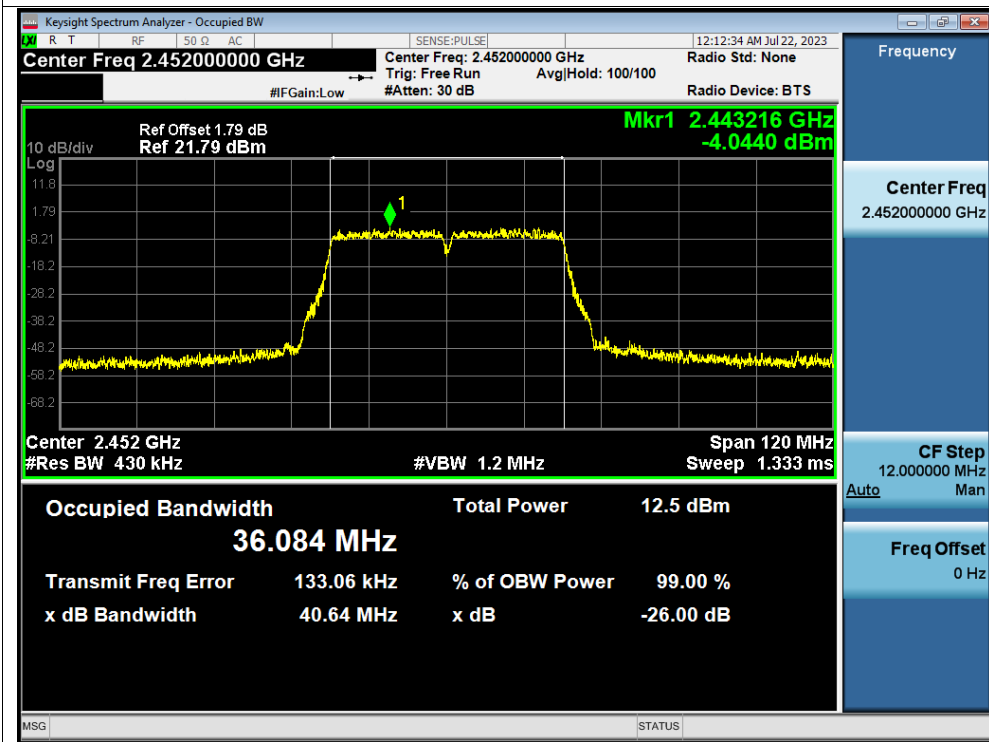
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



7.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-17.65	0	-17.65	8	Pass
NVNT	b	2437	Ant1	-17.08	0	-17.08	8	Pass
NVNT	b	2462	Ant1	-16.96	0	-16.96	8	Pass
NVNT	g	2412	Ant1	-21.36	0	-21.36	8	Pass
NVNT	g	2437	Ant1	-20.5	0	-20.5	8	Pass
NVNT	g	2462	Ant1	-20.3	0	-20.3	8	Pass
NVNT	n20	2412	Ant1	-21.28	0	-21.28	8	Pass
NVNT	n20	2437	Ant1	-20.18	0	-20.18	8	Pass
NVNT	n20	2462	Ant1	-19.77	0	-19.77	8	Pass
NVNT	n40	2422	Ant1	-20.42	0	-20.42	8	Pass
NVNT	n40	2437	Ant1	-21.38	0	-21.38	8	Pass
NVNT	n40	2452	Ant1	-21.15	0	-21.15	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1



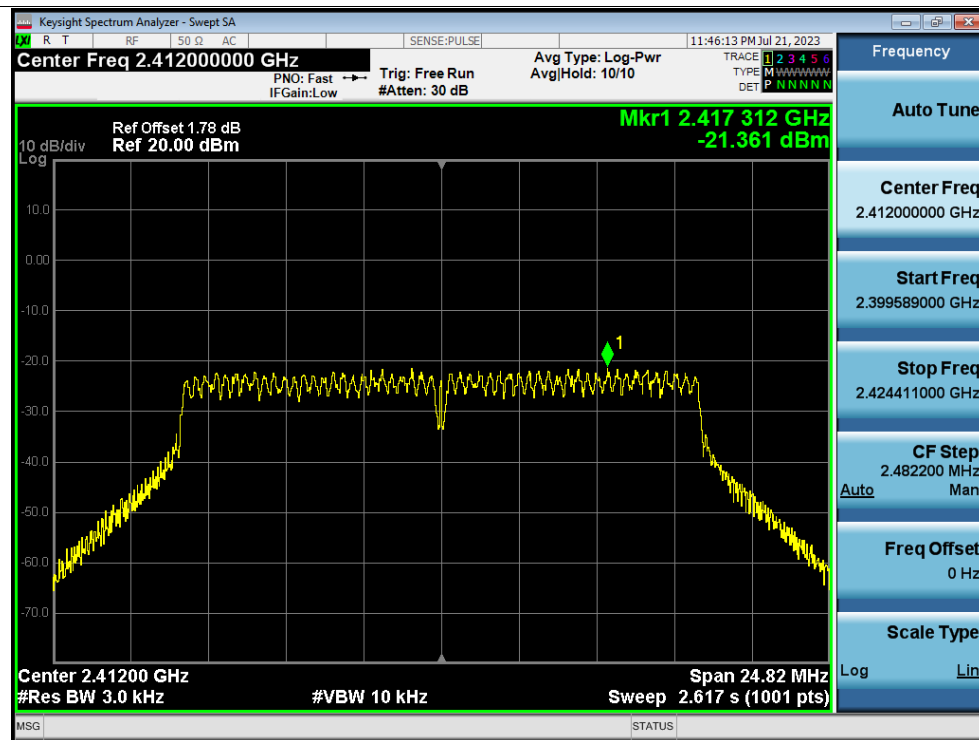
PSD NVNT b 2437MHz Ant1



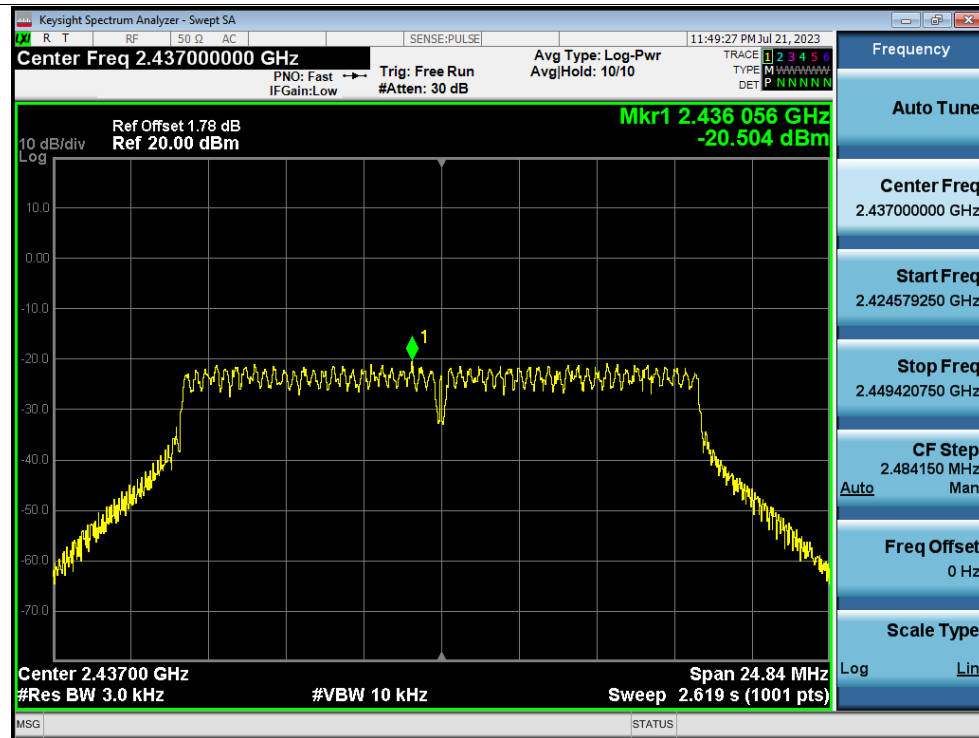
PSD NVNT b 2462MHz Ant1



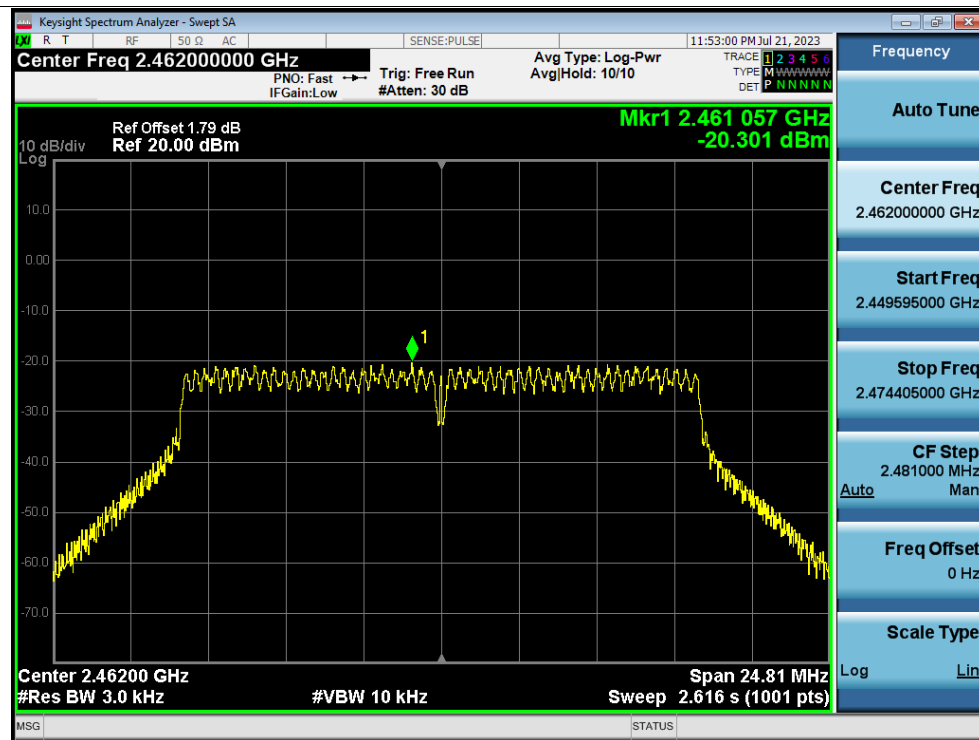
PSD NVNT g 2412MHz Ant1



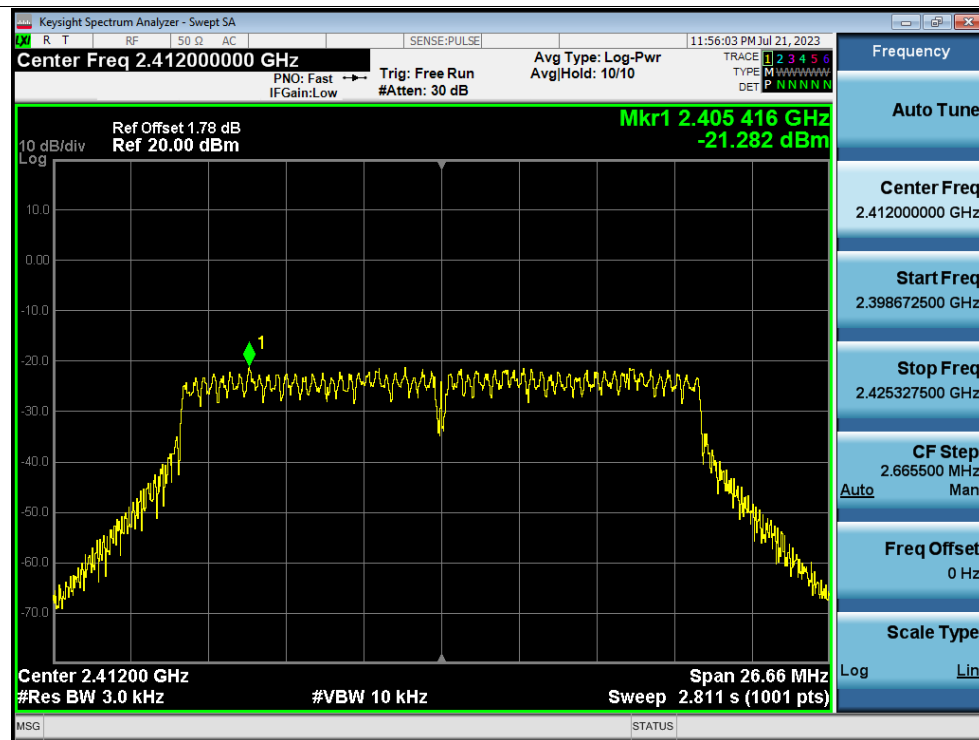
PSD NVNT g 2437MHz Ant1



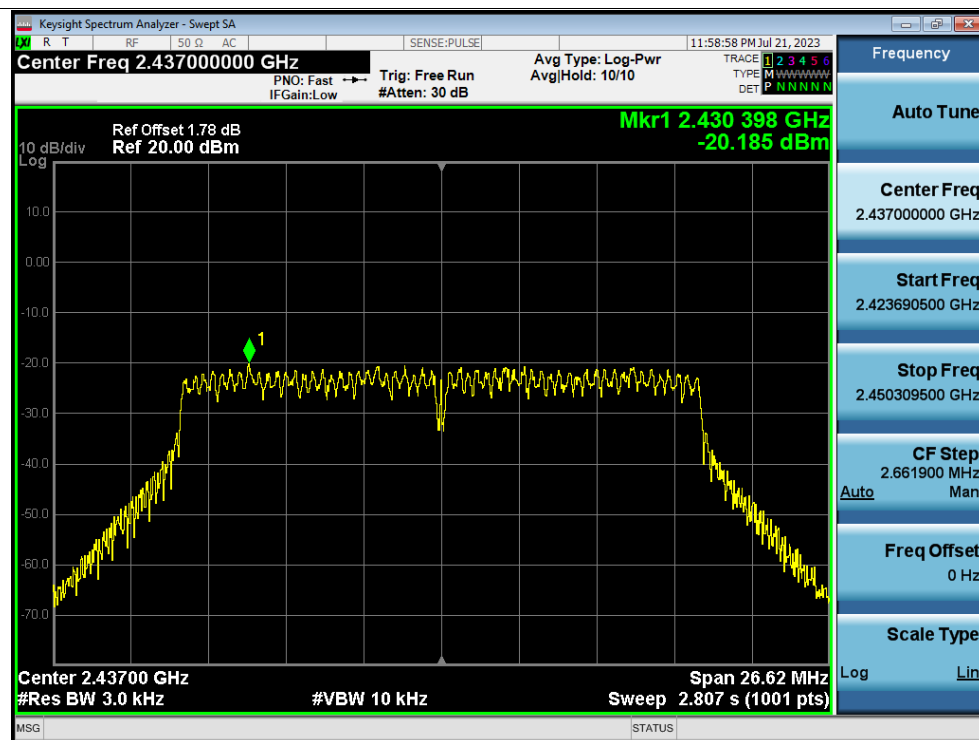
PSD NVNT g 2462MHz Ant1



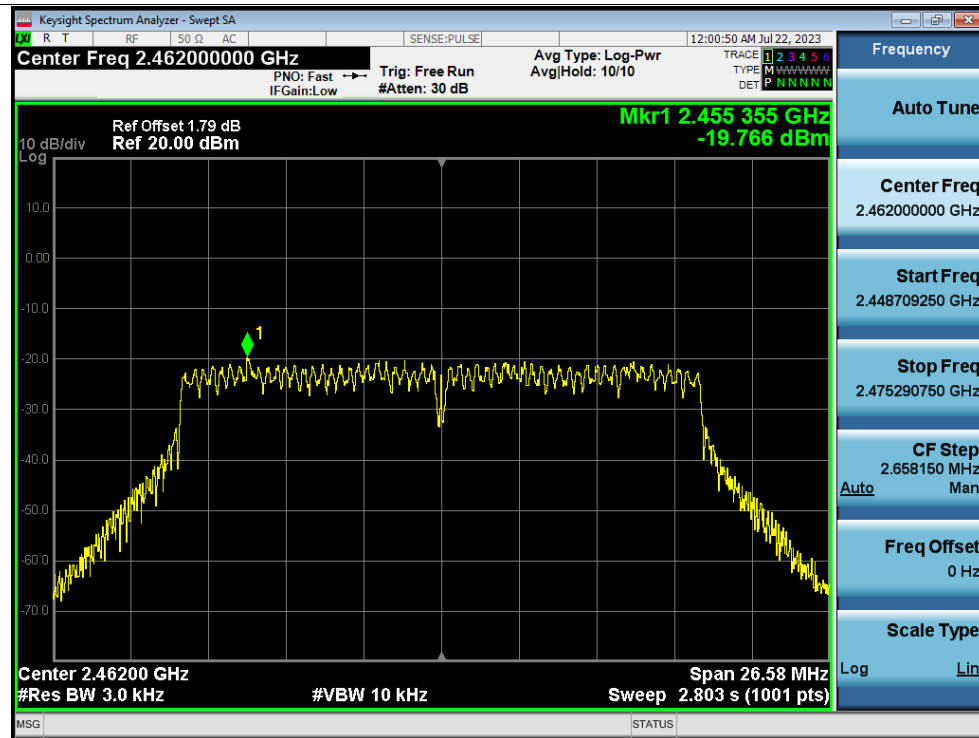
PSD NVNT n20 2412MHz Ant1



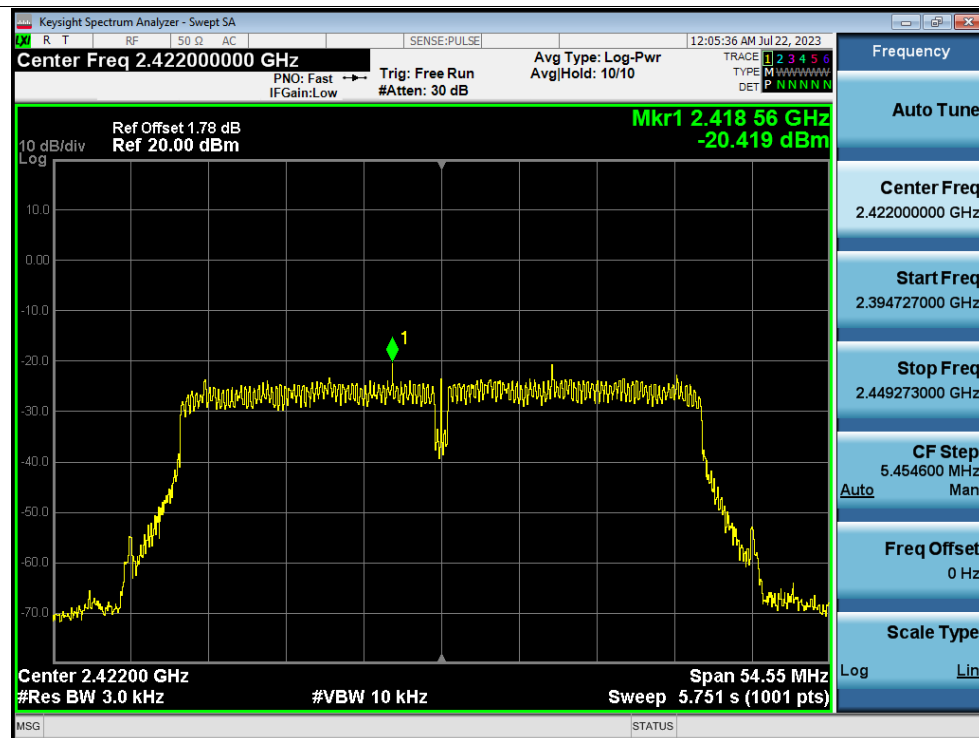
PSD NVNT n20 2437MHz Ant1



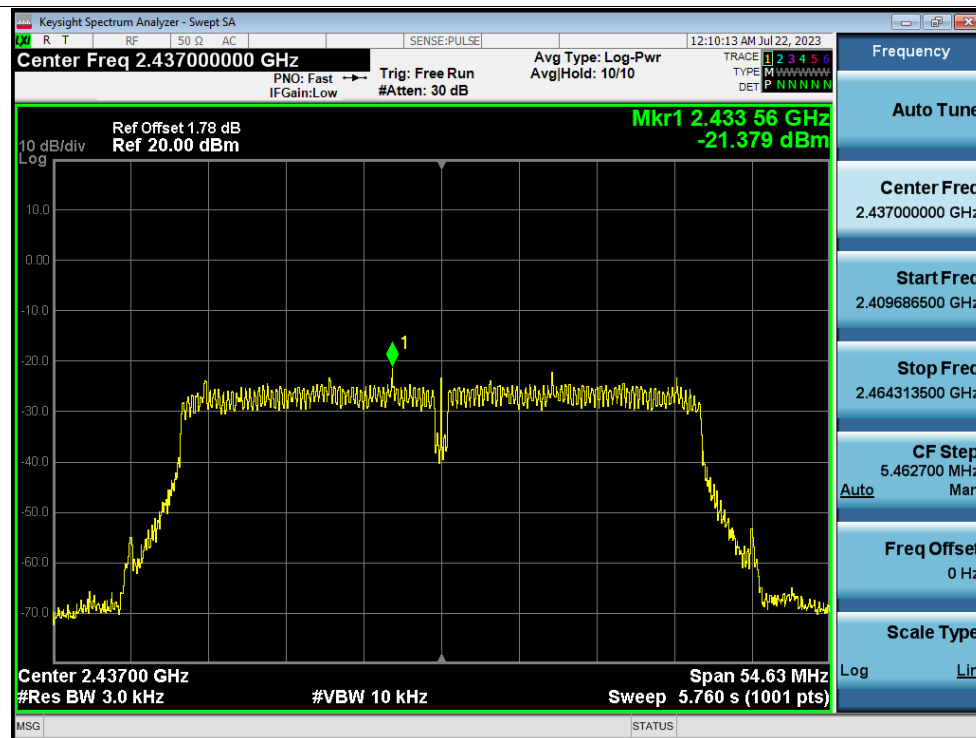
PSD NVNT n20 2462MHz Ant1



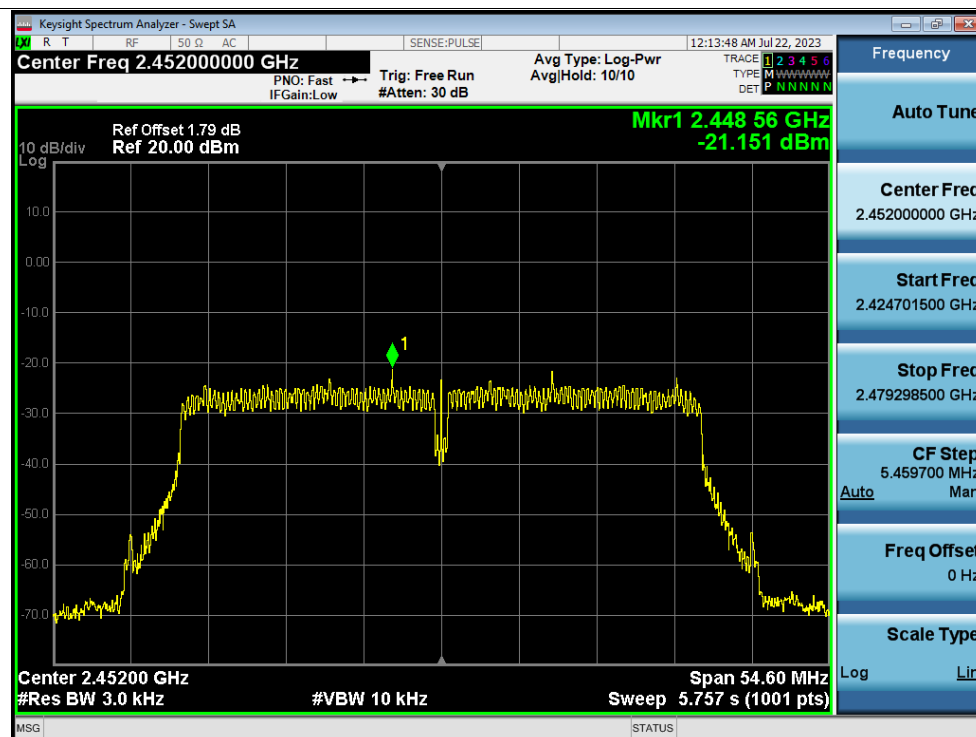
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



7.4 Band Edge

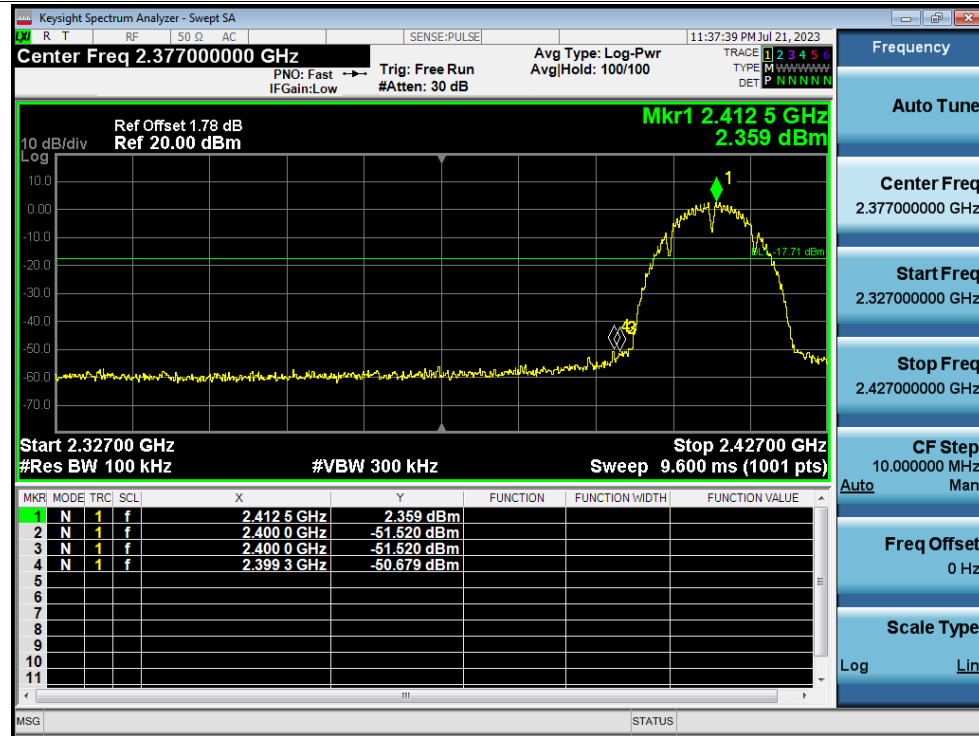
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.96	-20	Pass
NVNT	b	2462	Ant1	-58.17	-20	Pass
NVNT	g	2412	Ant1	-36.75	-20	Pass
NVNT	g	2462	Ant1	-48.19	-20	Pass
NVNT	n20	2412	Ant1	-36.43	-20	Pass
NVNT	n20	2462	Ant1	-48.74	-20	Pass
NVNT	n40	2422	Ant1	-32.66	-20	Pass
NVNT	n40	2452	Ant1	-43.06	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



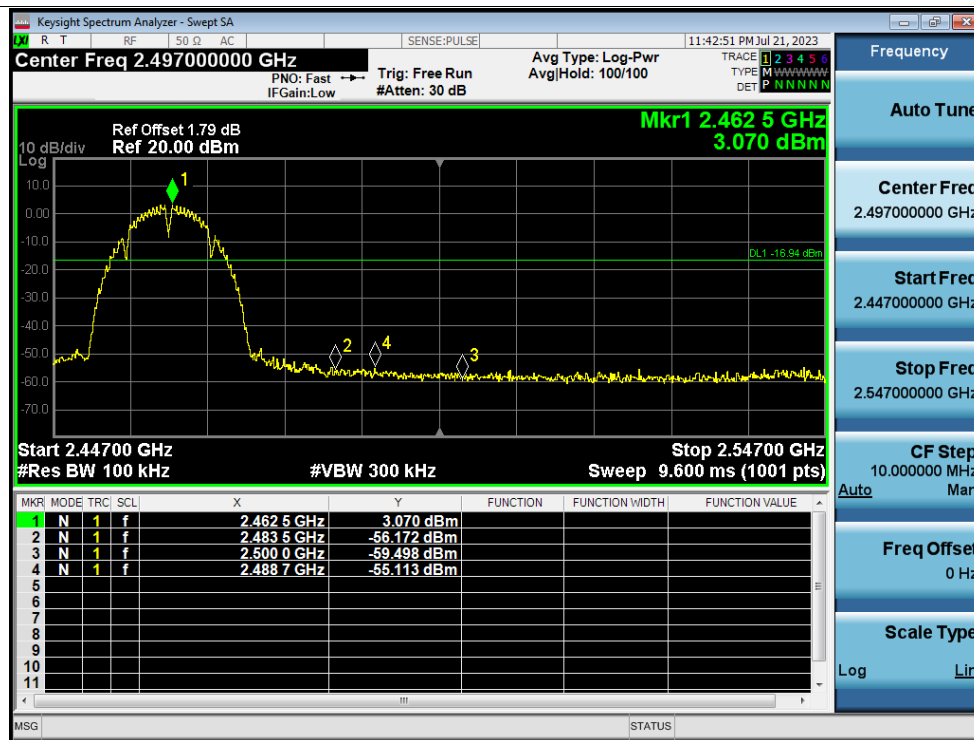
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



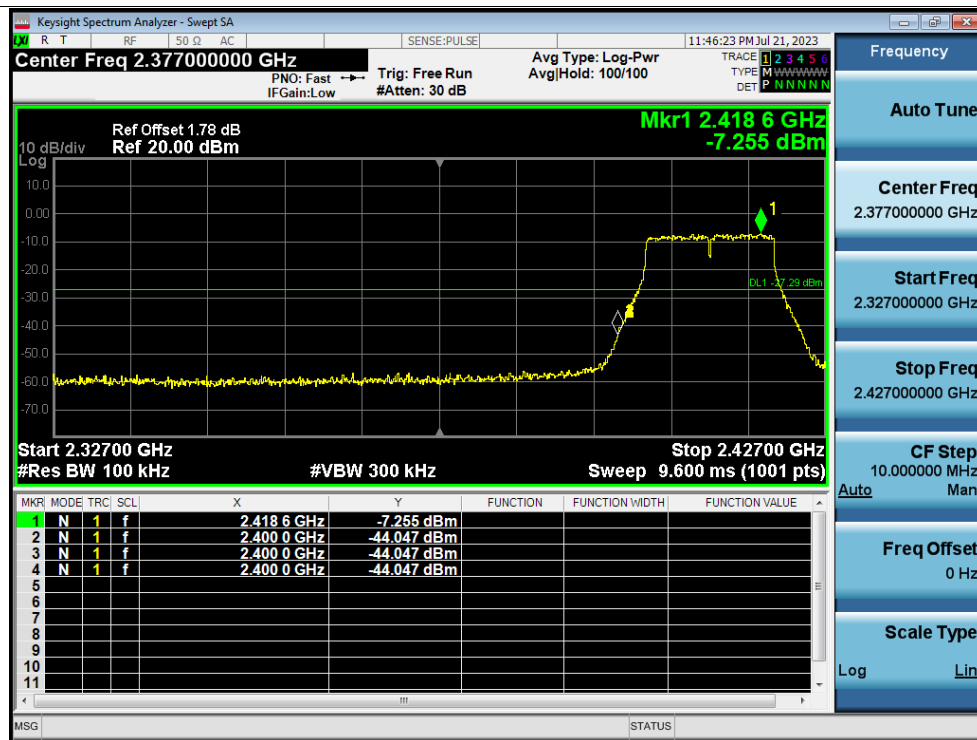
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.46200000 GHz

Ref Offset 1.79 dB
Ref 20.00 dBm

10 dB/div
Log

Trig: Free Run
#Atten: 30 dB

Avg Type: Log-Pwr
Avg/Hold: 100/100

Frequency

Auto Tune

Center Freq
2.46200000 GHz

Start Freq
2.447000000 GHz

Stop Freq
2.477000000 GHz

CF Step
3.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log

Center Freq 2.46200000 GHz

Span 30.00 MHz

#Res BW 100 kHz

#VBW 300 kHz

Sweep 2.933 ms (1001 pts)

Mkr1 2.463 68 GHz
-6.535 dBm

The figure shows a Keysight Spectrum Analyzer display. The main plot area shows a signal spectrum with a yellow trace. The signal is centered at 2.46200000 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -70.0 to 10.0. The x-axis is labeled 'Center Freq 2.46200000 GHz' and 'Span 30.00 MHz'. A marker is placed at 2.463 68 GHz with a value of -6.535 dBm. The plot shows a signal with a peak at the center frequency and side lobes. The top of the screen displays various settings: 'Keysight Spectrum Analyzer - Swept SA', 'Center Freq 2.46200000 GHz', 'Ref Offset 1.79 dB', 'Ref 20.00 dBm', 'Trig: Free Run', '#Atten: 30 dB', 'Avg Type: Log-Pwr', 'Avg/Hold: 100/100', 'Frequency', 'Auto Tune', 'Center Freq 2.46200000 GHz', 'Start Freq 2.447000000 GHz', 'Stop Freq 2.477000000 GHz', 'CF Step 3.000000 MHz Man', 'Freq Offset 0 Hz', 'Scale Type Log', 'Center Freq 2.46200000 GHz', 'Span 30.00 MHz', '#Res BW 100 kHz', '#VBW 300 kHz', 'Sweep 2.933 ms (1001 pts)', 'Mkr1 2.463 68 GHz -6.535 dBm'. The bottom status bar shows 'MSG' and 'STATUS'.

[illegible]

Keysight Spectrum Analyzer - Swept SA

RF S0.0 AC SENSE:PULSE 11:57:01 PM Jul 21, 2023

Center Freq 2.412000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr
IFGain:Low #Atten: 30 dB Avg|Hold: 100/100

TRACE 1 2 3 4 5 6
TYPE M N N N N N N
P N N N N N

Ref Offset 1.78 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 2.406 63 GHz
-7.681 dBm

1

Center Freq 2.41200 GHz
#Res BW 100 kHz

Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

#VBW 300 kHz

Frequency

Auto Tune

Center Freq
2.412000000 GHz

Start Freq
2.397000000 GHz

Stop Freq
2.427000000 GHz

CF Step
3.000000 MHz
Man

Auto

Freq Offset
0 Hz

Scale Type
Log Lin

MSG STATUS

[illegible]

Keysight Spectrum Analyzer - Swept SA

R T RF S0 Q AC SENSE:PULSE 12:00:54 AM Jul 22, 2023

Center Freq 2.46200000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr
IFGain:Low #Atten: 30 dB Avg|Hold: 100/100

TRACE 1 2 3 4 5 6
TYPE M N N N N N N N
P N N N N N

Ref Offset 1.79 dB
Ref 20.00 dBm

Mkr1 2.459 12 GHz
-6.247 dBm

10 dB/div
Log

The plot shows a spectrum with a central peak at 2.459 GHz. The y-axis is labeled '10 dB/div' and 'Log'. The x-axis represents frequency. A marker 'Mkr1' is placed at 2.459 GHz with a value of -6.247 dBm. The signal has a bandwidth of approximately 30 MHz.

Center Freq 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30.00 MHz
Sweep 2.933 ms (1001 pts)

Frequency
Auto Tune
Center Freq 2.462000000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz Man
Auto
Freq Offset 0 Hz
Scale Type Log Lin

[illegible]

[illegible]

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 1.78 dB
Ref 20.00 dBm

PNO: Fast
IF Gain: Low

Trig: Free Run
#Atten: 30 dB

Avg Type: Log-Pwr
Avg/Hold: 100/100

12:05:43 AM Jul 22, 2023

TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N

10 dB/div
Log

Mkr1 2.424 1 GHz
-9.930 dBm

Start 2.35200 GHz
#Res BW 100 kHz

Stop 2.45200 GHz
Sweep 9.600 ms (1001 pts)

#VBW 300 kHz

DL1 -29.68 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	10.00 ms	-10.32 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.352000000 GHz

Stop Freq
2.452000000 GHz

CF Step
10.000000 MHz

Auto Man

Freq Offset
0 Hz

Scale Type
Log Lin

[illegible]

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.47200000 GHz

Ref Offset 1.79 dB
Ref 20.00 dBm

Mkr2 2.472 0 GHz
-38.944 dBm

Start 2.42200 GHz
#Res BW 100 kHz

Stop 2.52200 GHz
#VBW 300 kHz
Sweep 9.600 ms (1001 pts)

10 dB/div
Log

Start 2.42200 GHz
#Res BW 100 kHz

Stop 2.52200 GHz
#VBW 300 kHz
Sweep 9.600 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	10.00 ms	-10.49 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

Frequency

Auto Tune

Center Freq
2.472000000 GHz

Start Freq
2.422000000 GHz

Stop Freq
2.522000000 GHz

CF Step
10.000000 MHz
Man

Freq Offset
0 Hz

Scale Type
Log Lin

Conducted RF Spurious Emission

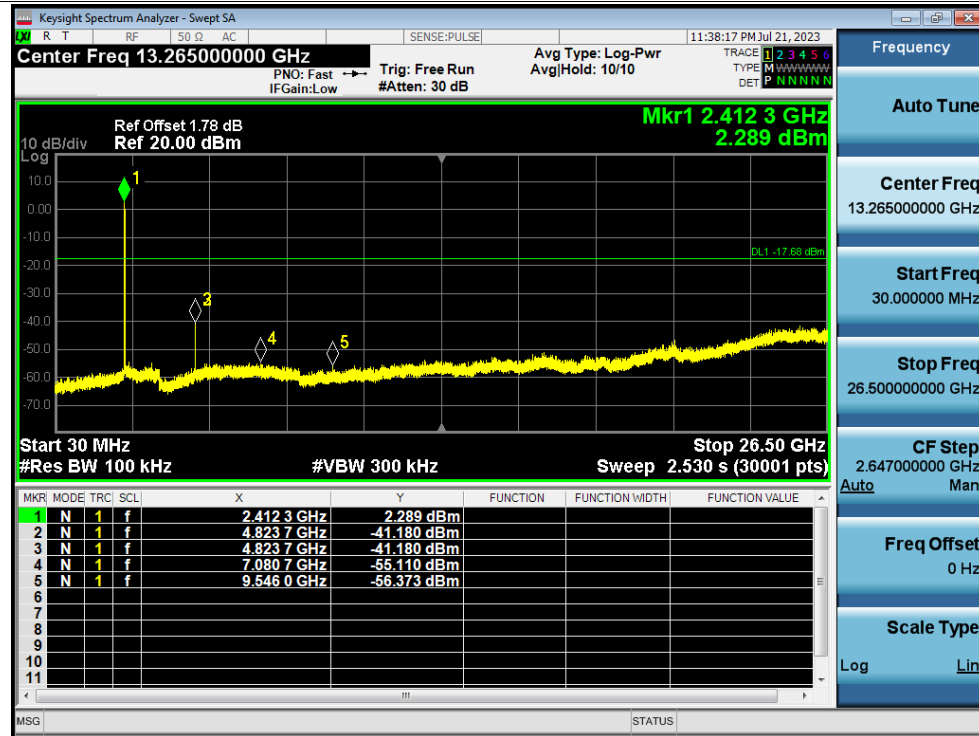
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.49	-20	Pass
NVNT	b	2437	Ant1	-44.31	-20	Pass
NVNT	b	2462	Ant1	-45.4	-20	Pass
NVNT	g	2412	Ant1	-34.64	-20	Pass
NVNT	g	2437	Ant1	-34.95	-20	Pass
NVNT	g	2462	Ant1	-35.2	-20	Pass
NVNT	n20	2412	Ant1	-35.16	-20	Pass
NVNT	n20	2437	Ant1	-35.22	-20	Pass
NVNT	n20	2462	Ant1	-35.28	-20	Pass
NVNT	n40	2422	Ant1	-31.52	-20	Pass
NVNT	n40	2437	Ant1	-31.06	-20	Pass
NVNT	n40	2452	Ant1	-30.99	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



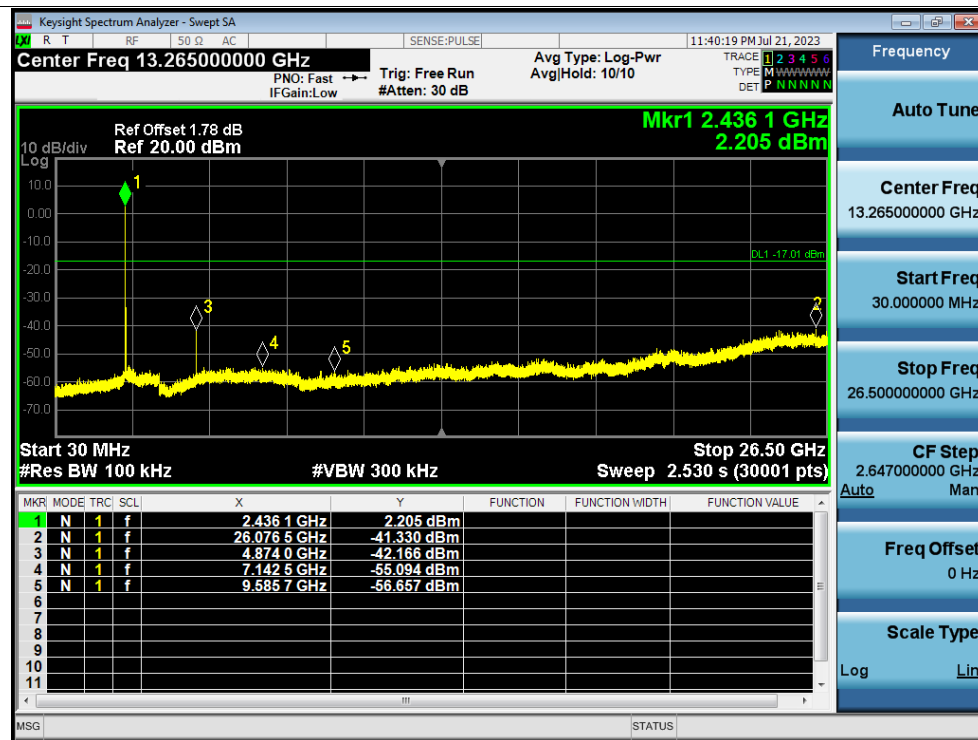
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission



Tx. Spurious NVNT b 2462MHz Ant1 Ref

Keysight Spectrum Analyzer - Swept SA

R T RE 50 Q AC SENSE:PULSE 11:42:59 PM Jul 21, 2023

Center Freq 2.46200000 GHz PNO: Fast → Trig: Free Run Avg Type: Log-Pwr
IF Gain: Low #Atten: 30 dB Avg|Hold: 100/100

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET P N N N N N N

Ref Offset 1.79 dB
Ref 20.00 dBm

Mkr1 2.462 51 GHz
3.053 dBm

10 dB/div
Log

Center Freq 2.46200000 GHz
Start Freq 2.447000000 GHz
Stop Freq 2.477000000 GHz
CF Step 3.000000 MHz
Auto Man
Freq Offset 0 Hz
Scale Type Log Lin

Center 2.46200 GHz Span 30.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)

MSG STATUS

Keysight Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:PULSE 11:43:27 PM Jul 21, 2023

Center Freq 13.265000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 10/10

TRACE 1 2 3 4 5 6
TYPE M N N N N N
DET P N N N N N

Ref Offset 1.79 dB
Ref 20.00 dBm

Mkr1 2.464 GHz
2.126 dBm

10 dB/div
Log

Start 30 MHz Stop 26.50 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.530 s (30001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.464 GHz	2.126 dBm			
2	N	1	f	24.997 GHz	-42.355 dBm			
3	N	1	f	4.924 GHz	-44.119 dBm			
4	N	1	f	7.228 GHz	-55.362 dBm			
5	N	1	f	9.733 GHz	-57.426 dBm			
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency

Auto Tune

Center Freq
13.265000000 GHz

Start Freq
30.000000 MHz

Stop Freq
26.500000000 GHz

CF Step
2.647000000 GHz
Auto Man

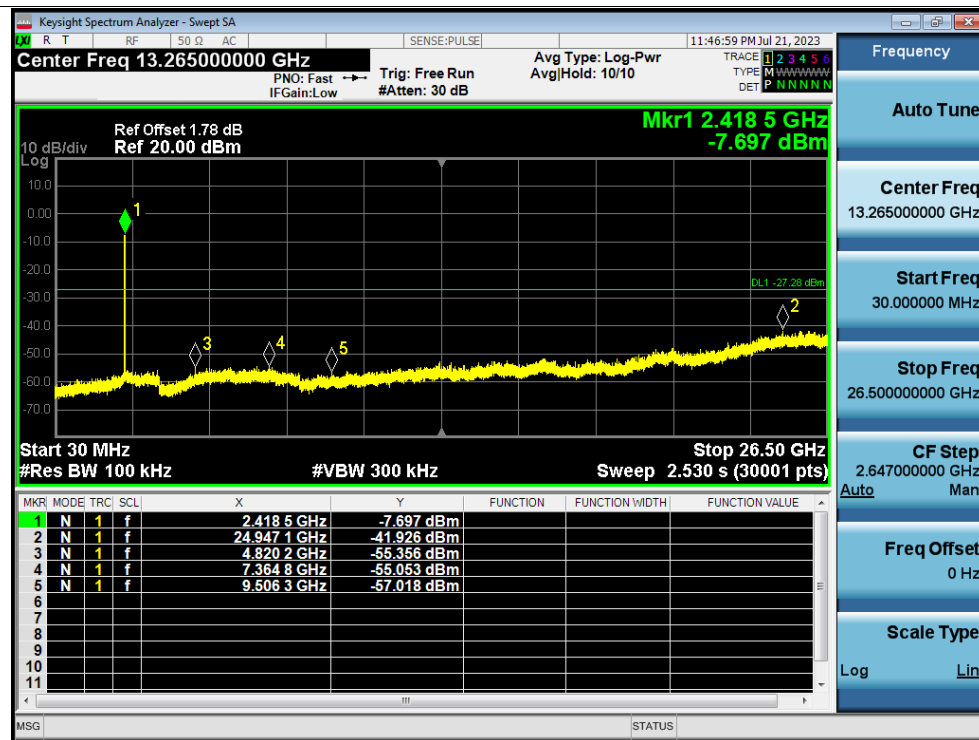
Freq Offset
0 Hz

Scale Type
Log Lin

Tx. Spurious NVNT g 2412MHz Ant1 Ref



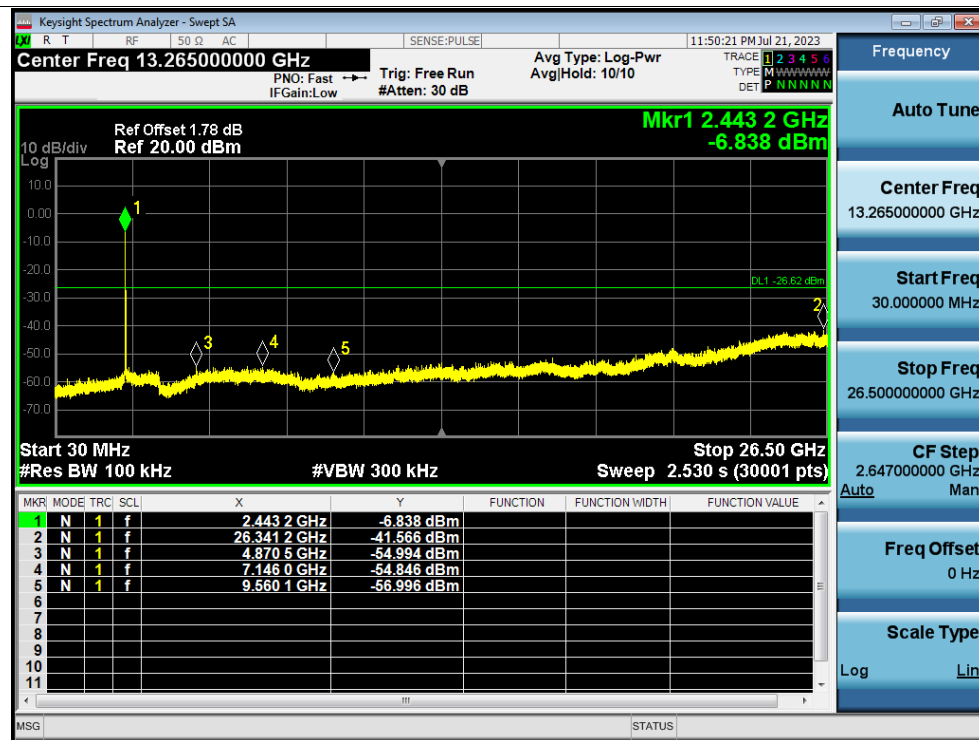
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



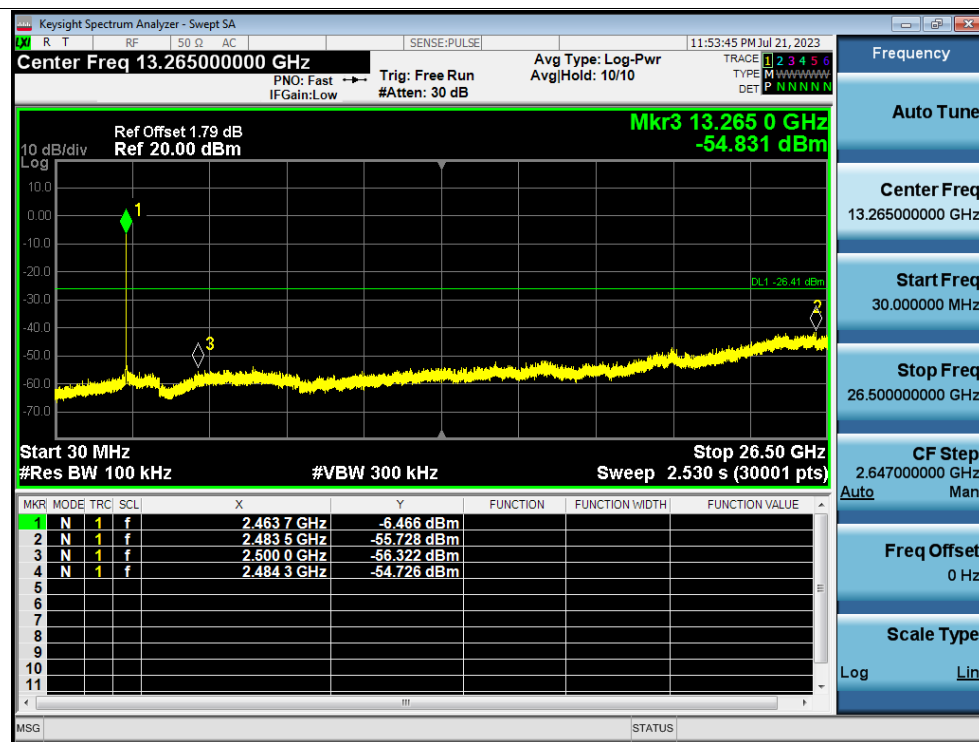
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref



Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref

Keysight Spectrum Analyzer - Swept SA

R T RF S.O. AC SENSE:PULSE 11:57:10 PM Jul 21, 2023

Center Freq 2.41200000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr
IFGain:Low #Atten: 30 dB Avg|Hold: 100/100

TRACE 1 2 3 4 5 6 TYPE M N N N N N N N DET P N N N N N N

Ref Offset 1.78 dB
Ref 20.00 dBm

Mkr1 2.409 15 GHz
-7.327 dBm

10 dB/div
Log

The plot shows a spectrum with a central peak at 2.412 GHz. A yellow marker labeled '1' is positioned at 2.409 GHz with a value of -7.327 dBm. The y-axis ranges from -70 dB to 10 dB, and the x-axis spans 30 MHz around the center frequency.

Center 2.41200 GHz Span 30.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)

MSG STATUS

Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.397000000 GHz Stop Freq 2.427000000 GHz CF Step 3.000000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin

Keysight Spectrum Analyzer - Swept SA

R T RF 50 Ω AC SENSE:PULSE 11:57:39 PM Jul 21, 2023

Center Freq 13.265000000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

TRACE 1 2 3 4 5 6 TYPE M N N N N N DET P N N N N N

Ref Offset 1.78 dB Ref 20.00 dBm

Mkr1 2.415 8 GHz -7.778 dBm

Start 30 MHz Stop 26.50 GHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.530 s (30001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.409 1 GHz	-7.324 dBm			
2	N	1	f	2.400 0 GHz	-44.115 dBm			
3	N	1	f	2.400 0 GHz	-44.115 dBm			
4	N	1	f	2.400 0 GHz	-44.115 dBm			

Frequency Auto Tune

Center Freq 13.265000000 GHz

Start Freq 30.000000 MHz

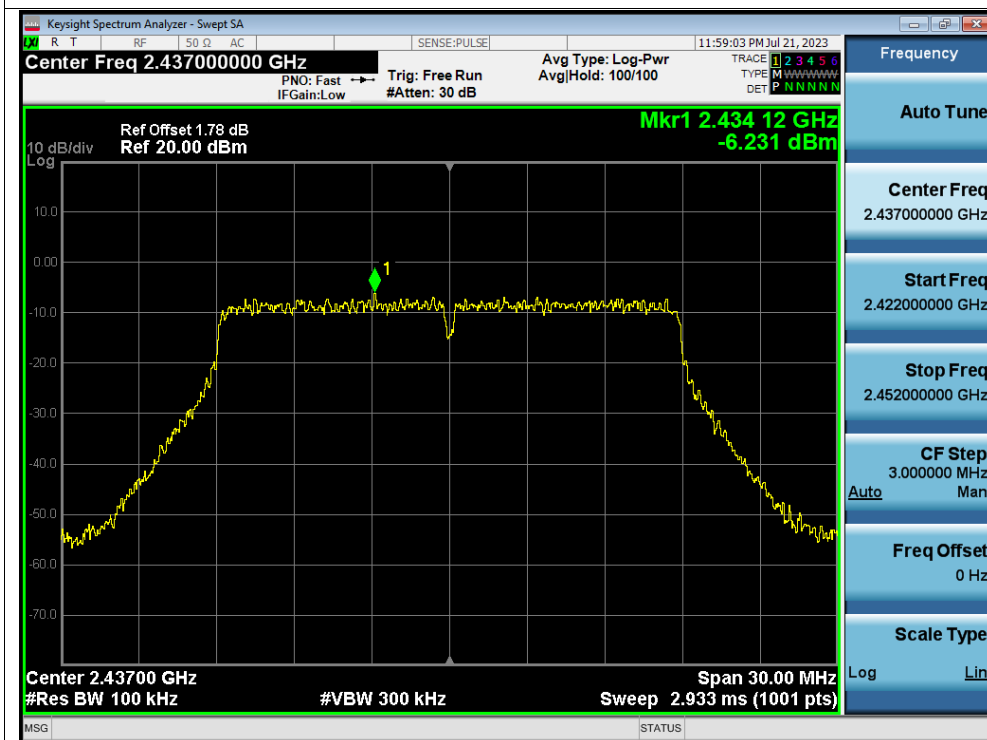
Stop Freq 26.500000000 GHz

CF Step 2.647000000 GHz Man

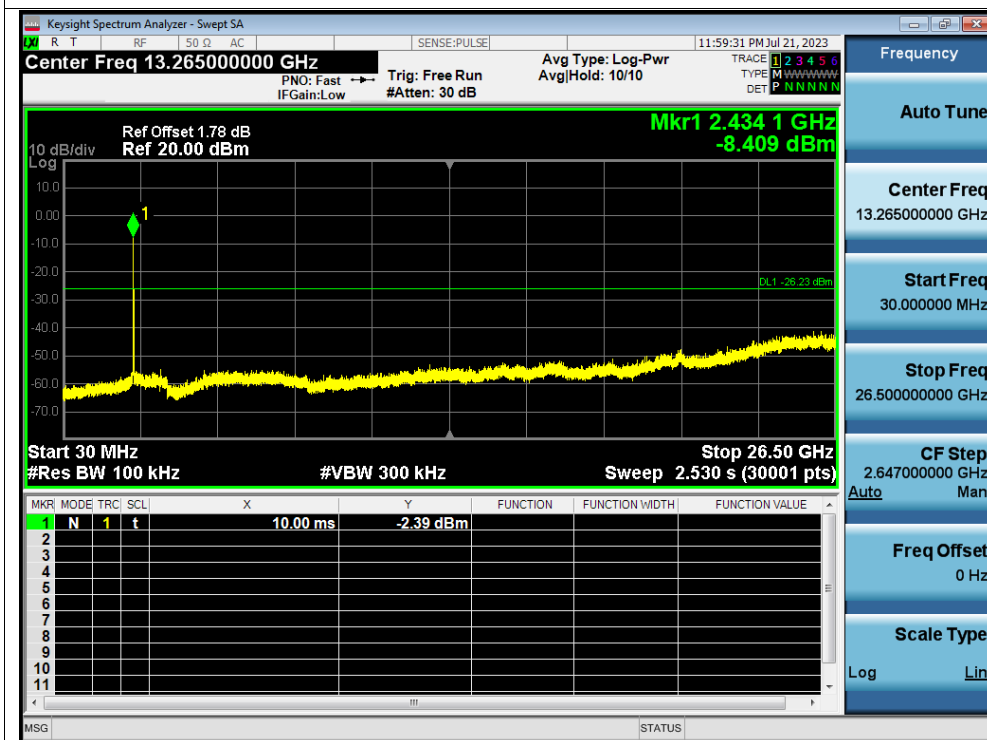
Freq Offset 0 Hz

Scale Type Log Lin

Tx. Spurious NVNT n20 2437MHz Ant1 Ref



Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref

The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a spectral signal with a prominent peak at 2.462 GHz. The y-axis is labeled '10 dB/div Log' and ranges from -70 to 10 dBm. The x-axis represents frequency. A green marker 'Mkr1' is placed at 2.45726 GHz with a value of -6.529 dBm. The plot title is 'Center Freq 2.462000000 GHz'. The right sidebar contains various settings: Frequency (Auto Tune), Center Freq (2.462000000 GHz), Start Freq (2.447000000 GHz), Stop Freq (2.477000000 GHz), CF Step (3.000000 MHz Man), Freq Offset (0 Hz), Scale Type (Log), and Lin. The bottom status bar shows 'MSG', 'STATUS', 'Center 2.46200 GHz', '#Res BW 100 kHz', '#VBW 300 kHz', 'Span 30.00 MHz', and 'Sweep 2.933 ms (1001 pts)'.

Keysight Spectrum Analyzer - Swept SA

R T RF 50 Ω AC SENSE:PULSE 12:01:02 AM Jul 22, 2023

Center Freq 2.462000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr Avg/Hold: 100/100

IFGain:Low #Atten: 30 dB TRACEL 1 2 3 4 5 6 TYPE M N N N N N N N DET P N N N N N

Ref Offset 1.79 dB
Ref 20.00 dBm

Mkr1 2.457 26 GHz
-6.529 dBm

10 dB/div
Log

Center 2.46200 GHz Span 30.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms (1001 pts)

Frequency Auto Tune

Center Freq 2.462000000 GHz

Start Freq 2.447000000 GHz

Stop Freq 2.477000000 GHz

CF Step 3.000000 MHz Man

Freq Offset 0 Hz

Scale Type Log Lin

Keysight Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:PULSE 12:01:30 AM Jul 22, 2023

Center Freq 13.265000000 GHz PNO: Fast IF Gain: Low Trig: Free Run Avg Type: Log-Pwr Avg Hold: 10/10

Ref Offset 1.79 dB Ref 20.00 dBm

Mkr1 2.457 3 GHz -8.296 dBm

10 dB/div Log

Start 30 MHz Stop 26.50 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.530 s (30001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.459 1 GHz	-6.247 dBm			
2	N	1	f	2.483 5 GHz	-57.215 dBm			
3	N	1	f	2.500 0 GHz	-58.112 dBm			
4	N	1	f	2.484 5 GHz	-54.996 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency Auto Tune

Center Freq 13.265000000 GHz

Start Freq 30.000000 MHz

Stop Freq 26.500000000 GHz

CF Step 2.647000000 GHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin

Tx. Spurious NVNT n40 2422MHz Ant1 Ref

Keysight Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:PULSE 12:05:49 AM Jul 22, 2023

Center Freq 2.42200000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr
IF Gain: Low #Atten: 30 dB Avg Hold: 100/100

TRACE 1 2 3 4 5 6
TYPE M W W W W W
DET P N N N N N

Ref Offset 1.78 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 2.424 16 GHz
-9.838 dBm

1

Center 2.42200 GHz Span 60.00 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 5.800 ms (1001 pts)

Frequency

Auto Tune

Center Freq
2.42200000 GHz

Start Freq
2.392000000 GHz

Stop Freq
2.452000000 GHz

CF Step
6.000000 MHz
Auto Man

Freq Offset
0 Hz

Scale Type
Log Lin

MSG STATUS

Key Parameters:

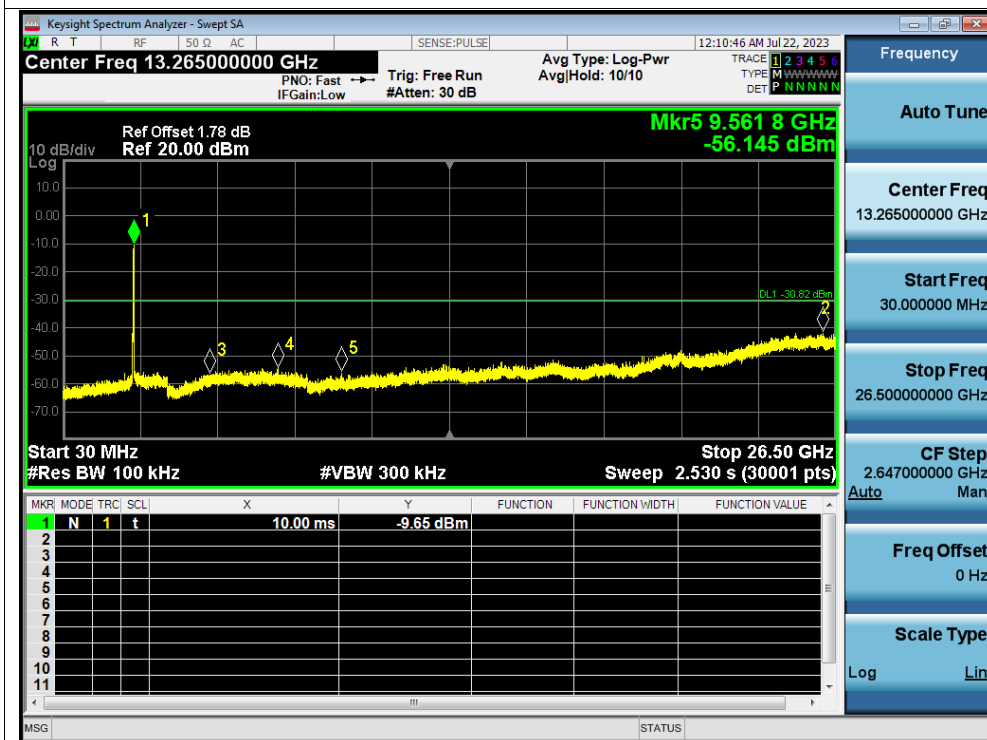
- Center Freq: 13.26500000 GHz
- Ref Offset: 1.78 dB
- Ref: 20.00 dBm
- Mkr3: 13.265 0 GHz, -57.121 dBm
- Start: 30 MHz
- Stop: 26.50 GHz
- #Res BW: 100 kHz
- #VBW: 300 kHz
- Sweep: 2.530 s (30001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.424 1 GHz	-9.930 dBm			
2	N	1	f	2.400 0 GHz	-42.348 dBm			
3	N	1	f	2.400 0 GHz	-42.348 dBm			
4	N	1	f	2.400 0 GHz	-42.348 dBm			

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref

Keysight Spectrum Analyzer - Swept SA

12:14:00 AM Jul 22, 2023

Center Freq 2.45200000 GHz

PNO: Fast → Trig: Free Run Avg Type: Log-Pwr

IF Gain: Low #Atten: 30 dB Avg Hold: 100/100

TRACE 1 2 3 4 5 6

TYPE M W W W W W W

DET P N N N N N

Ref Offset 1.79 dB

Ref 20.00 dBm

10 dB/div

Log

Mkr1 2.444 26 GHz

-10.657 dBm

1

Center 2.45200 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 60.00 MHz

Sweep 5.800 ms (1001 pts)

Frequency

Auto Tune

Center Freq 2.452000000 GHz

Start Freq 2.422000000 GHz

Stop Freq 2.482000000 GHz

CF Step 6.000000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin

MSG STATUS

[illegible]

7.5 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0