NFSS Two Tone Test
Freq1=37 MHz, Freq2=73 MHz
Measured Spectrum

V1=0.01; V2=0.01
V1=0.01; V2=0.1
V1=0.01; V2=1.0
V1=0.1; V2=0.01
V1=0.1; V2=0.1
V1=0.1; V2=1.0
V1=1.0; V2=0.01
V1=1.0; V2=0.1
V1=1.0; V2=1.0

RF Out [$V/\sqrt{Hz}$]

10^{-7}

10^{-8}

35.900 35.925 35.950 35.975 36.000 36.025 36.050 36.075 36.100

Frequency [MHz]

NFSS Two Tone Test
Freq1=37 MHz, Freq2=73 MHz

$ASD_{@f2-f1}\sqrt{IFBW}\frac{1}{\sqrt{V1*TF_{@f1}*V2*TF_{@f2}}}$ at 36.0 MHz where TF is in V/V from Test Input to RF Out

-26.07 dB
-29.9 dB
-39.76 dB
-14.44 dB
-19.97 dB
-29.88 dB
-6.52 dB
-9.74 dB
-19.92 dB

10^{0}
10^{-1}
10^{-2}

Amplitude of Freq2 [V]

10^{-2}
10^{-1}
10^{0}

Amplitude of Freq1 [V]

NFSS Two Tone Test
Freq1=35 MHz, Freq2=71 MHz
Measured Spectrum

V1=0.01; V2=0.01
V1=0.01; V2=0.1
V1=0.01; V2=1.0
V1=0.1; V2=0.01
V1=0.1; V2=0.1
V1=0.1; V2=1.0
V1=1.0; V2=0.01
V1=1.0; V2=0.1
V1=1.0; V2=1.0

10^{-7}
10^{-8}
RF Out [$V/\sqrt{Hz}$]

35.900
35.925
35.950
35.975
36.000
36.025
36.050
36.075
36.100
Frequency [MHz]

NFSS Two Tone Test
Freq1=35 MHz, Freq2=71 MHz

$ASD_{@f2-f1}\sqrt{IFBW}\frac{1}{\sqrt{V1*TF_{@f1}*V2*TF_{@f2}}}$ at 36.0 MHz where TF is in V/V from Test Input to RF Out

-20.18 dB
-30.19 dB
-40.02 dB
-9.57 dB
-20.12 dB
-29.81 dB
0.16 dB
-10.0 dB
-19.52 dB

10^{0}
10^{-1}
10^{-2}

Amplitude of Freq2 [V]

10^{-2}
10^{-1}
10^{0}

Amplitude of Freq1 [V]

SFSS Two Tone Test
Freq1=36 MHz, Freq2=73 MHz
Measured Spectrum

V1=0.01; V2=0.01
V1=0.01; V2=0.1
V1=0.01; V2=1.0
V1=0.1; V2=0.01
V1=0.1; V2=0.1
V1=0.1; V2=1.0
V1=1.0; V2=0.01
V1=1.0; V2=0.1
V1=1.0; V2=1.0

RF Out [$V/\sqrt{Hz}$]

10^{-7}

10^{-8}

36.900 36.925 36.950 36.975 37.000 37.025 37.050 37.075 37.100

Frequency [MHz]

SFSS Two Tone Test
Freq1=36 MHz, Freq2=73 MHz

$ASD_{@f2-f1}\sqrt{IFBW}\frac{1}{\sqrt{V1*TF_{@f1}*V2*TF_{@f2}}}$ at 37.0 MHz where TF is in V/V from Test Input to RF Out

-24.24 dB
-34.43 dB
-44.38 dB
-14.1 dB
-24.21 dB
-34.21 dB
-4.17 dB
-14.39 dB
-24.19 dB

10^{0}
10^{-1}
10^{-2}

Amplitude of Freq2 [V]

10^{-2}
10^{-1}
10^{0}

Amplitude of Freq1 [V]

Measurement Setup Two Tone Test
Freq1=36 MHz, Freq2=73 MHz
Measured Spectrum

RF Out [V/√Hz]

10^{-6}
10^{-7}
10^{-8}

V1=0.01; V2=0.01
V1=0.01; V2=0.1
V1=0.01; V2=1.0
V1=0.1; V2=0.01
V1=0.1; V2=0.1
V1=0.1; V2=1.0
V1=1.0; V2=0.01
V1=1.0; V2=0.1
V1=1.0; V2=1.0

36.900 36.925 36.950 36.975 37.000 37.025 37.050 37.075 37.100

Frequency [MHz]

Measurement Setup Two Tone Test
Freq1=36 MHz, Freq2=73 MHz

$ASD_{@f2-f1}\sqrt{IFBW}\frac{1}{\sqrt{V1*TF_{@f1}*V2*TF_{@f2}}}$ at 37.0 MHz where TF is in V/V from Test Input to RF Out

-88.01 dB
-85.82 dB
-90.03 dB
-87.21 dB
-91.64 dB
-79.25 dB
-76.64 dB
-86.81 dB
-68.09 dB

10^{0}
10^{-1}
10^{-2}

Amplitude of Freq2 [V]

10^{-2}
10^{-1}
10^{0}

Amplitude of Freq1 [V]