

**Annex acc. to FCC Title 47 CFR Part 95 M
relating to
s.m.s, smart microwaves sensors GmbH
DRVEGRD 169**

Annex no. 3 Occupied Bandwidth

**Title 47 - Telecommunication
Part 95 – Personal Radio Services
Subpart M – The 76 – 81 GHz Band Radar Service
ANSI C63.26-2015**



Test plots – Measured 26 dB Bandwidth (Waveform 0)

@ 77.85 GHz



@ 79.80 GHz

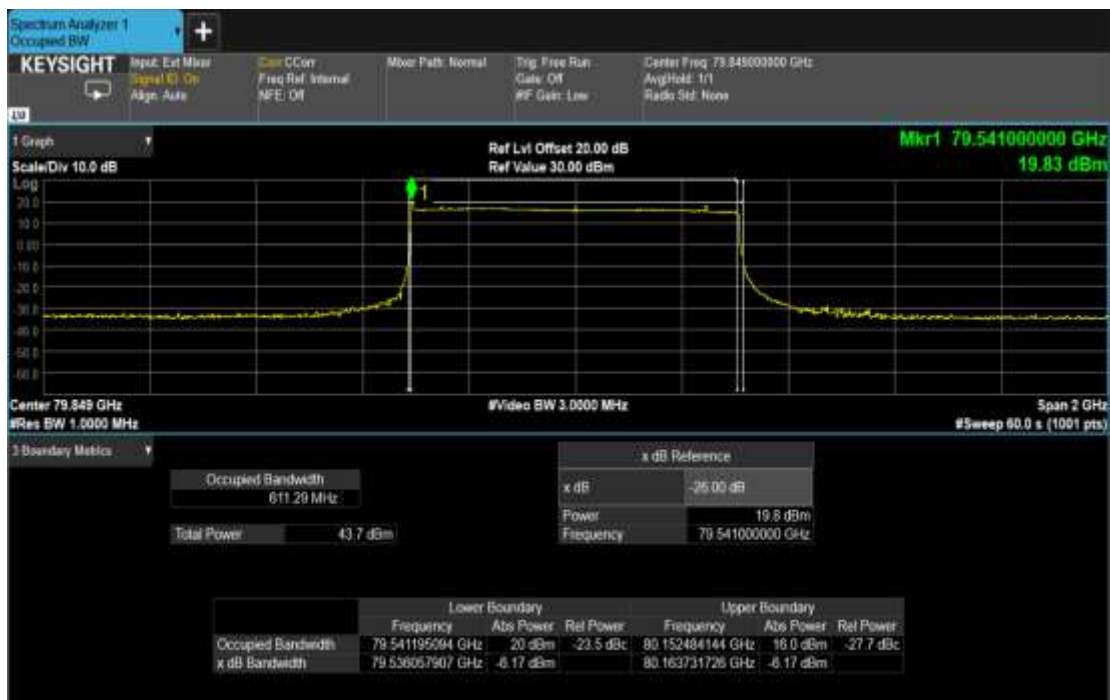


Test plots – Measured 26 dB Bandwidth (Waveform 1)

@ 77.85 GHz



@ 79.80 GHz

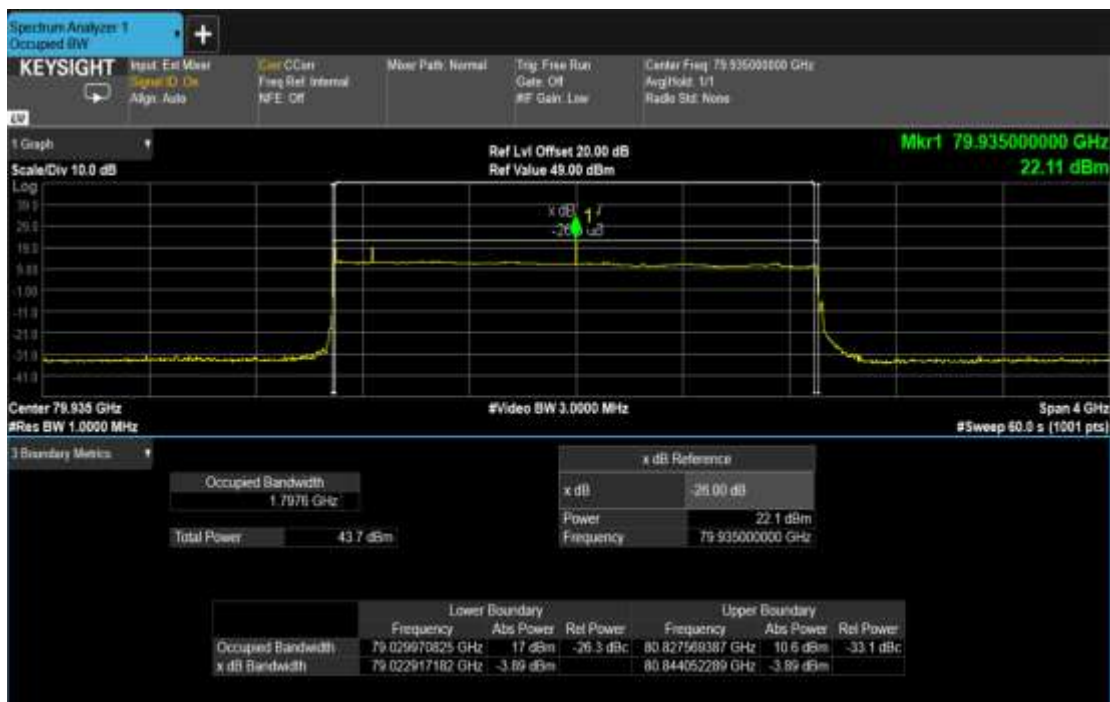


Test plots – Measured 26 dB Bandwidth (Waveform 2)

@ 77.85 GHz



@ 79.80 GHz



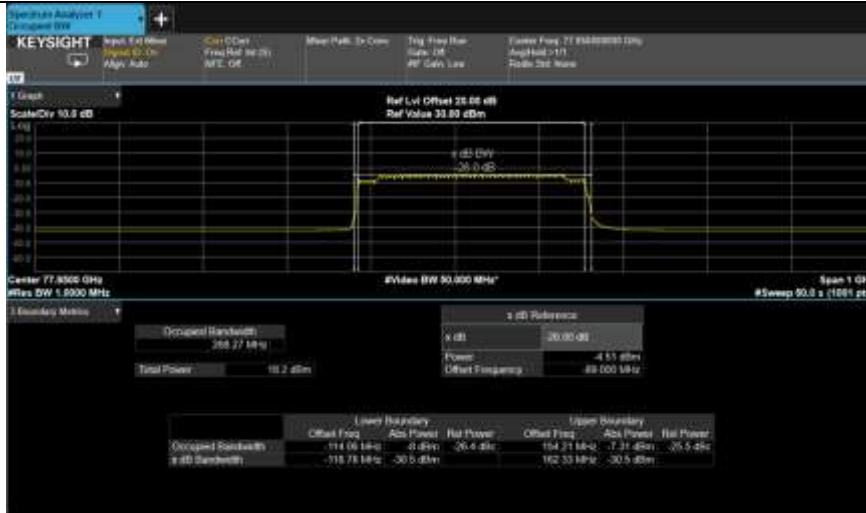
Test plots – Measured 26 dB Bandwidth (Waveform 3)

@ 78.85 GHz

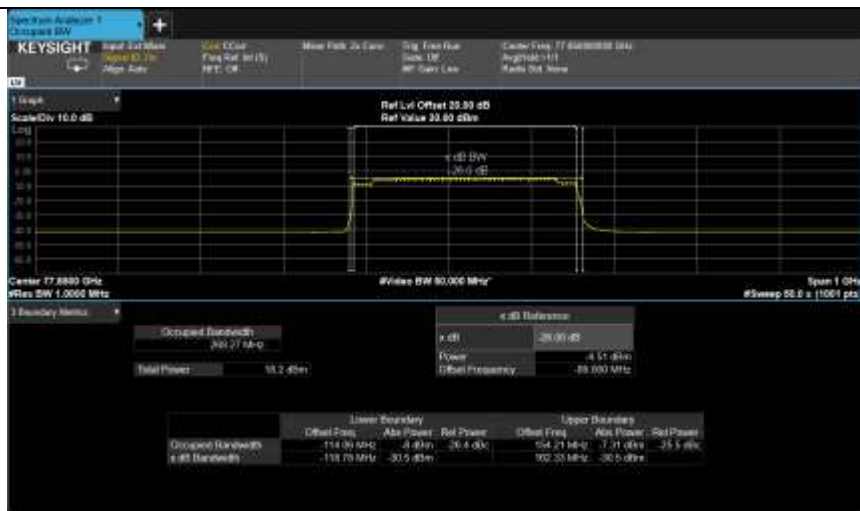


Test plots – Frequency stability (Waveform 0 @ 77.85 GHz)

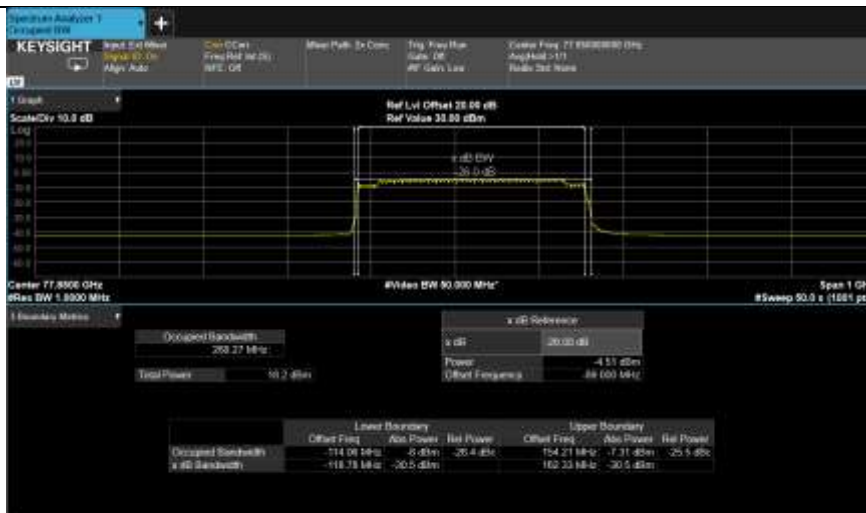
99% mbw +24°C 24V DC



99% mbw +24°C 7V DC



99% mbw +24°C 32V DC



Test plots – Frequency stability (Waveform 0 @ 79.80 GHz)

99% mbw +24°C 24V DC



99% mbw +24°C 7V DC

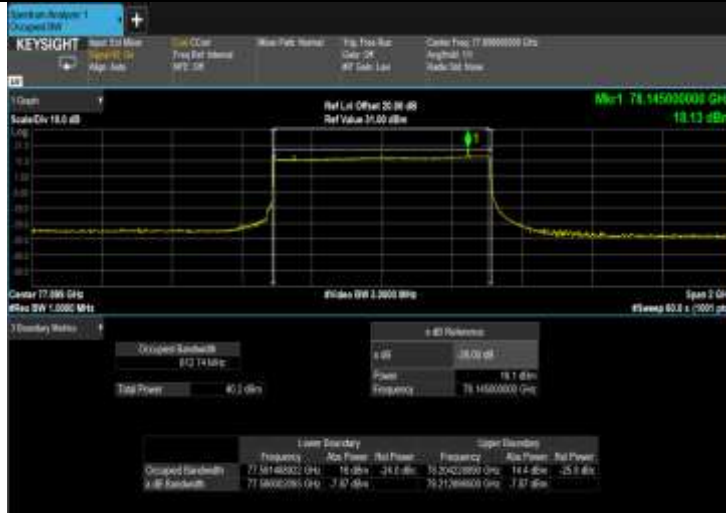


99% mbw +24°C 32V DC

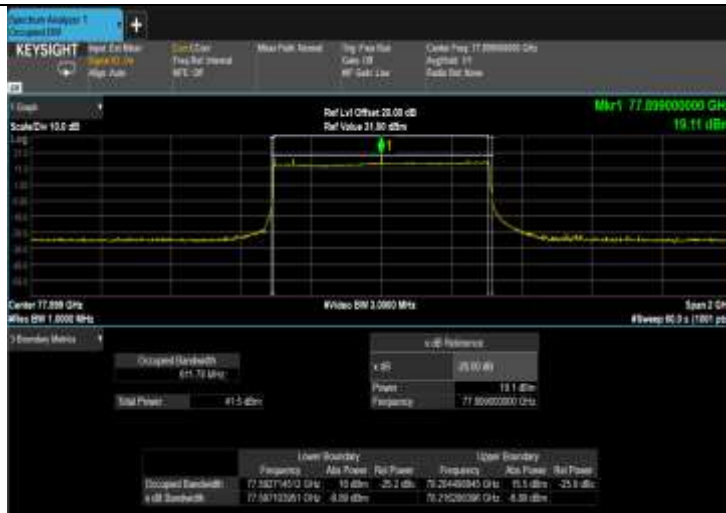


Test plots – Frequency stability (Waveform 1 @ 77.85 GHz)

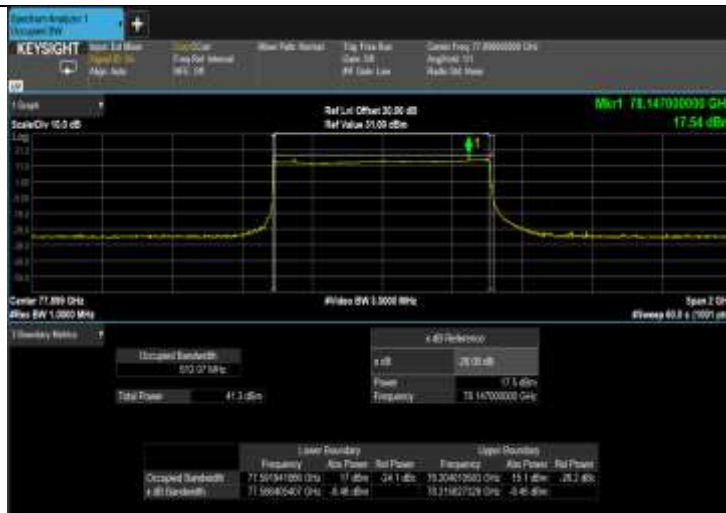
99% mbw +24°C 24V DC



99% mbw +24°C 7V DC

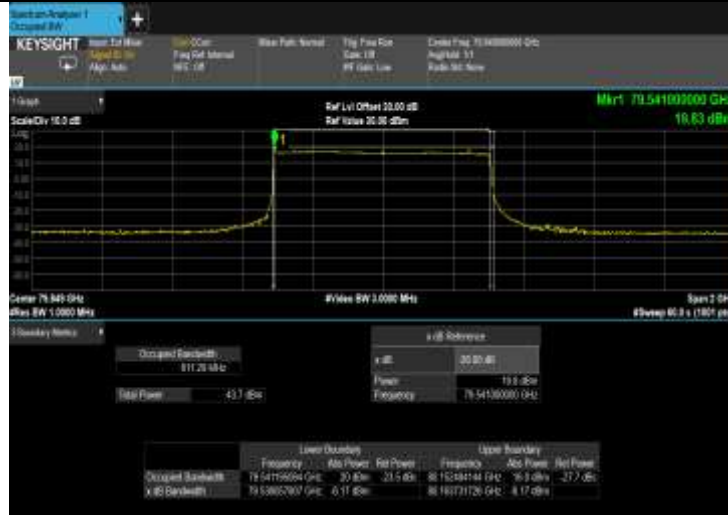


99% mbw +24°C 32V DC

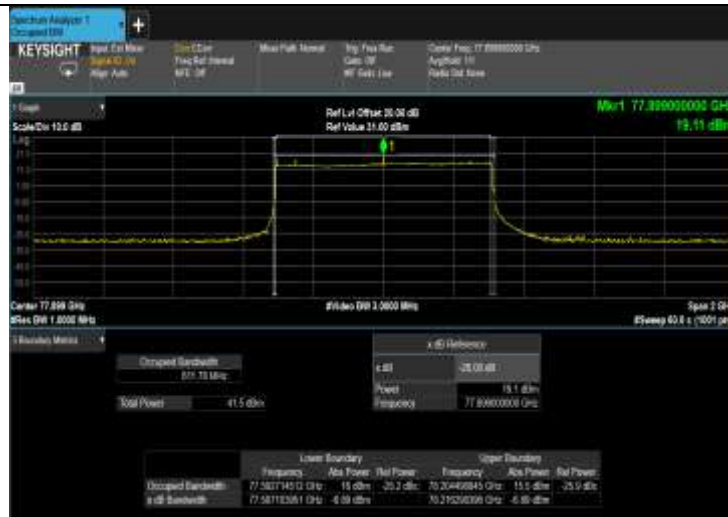


Test plots – Frequency stability (Waveform 1 @ 79.80 GHz)

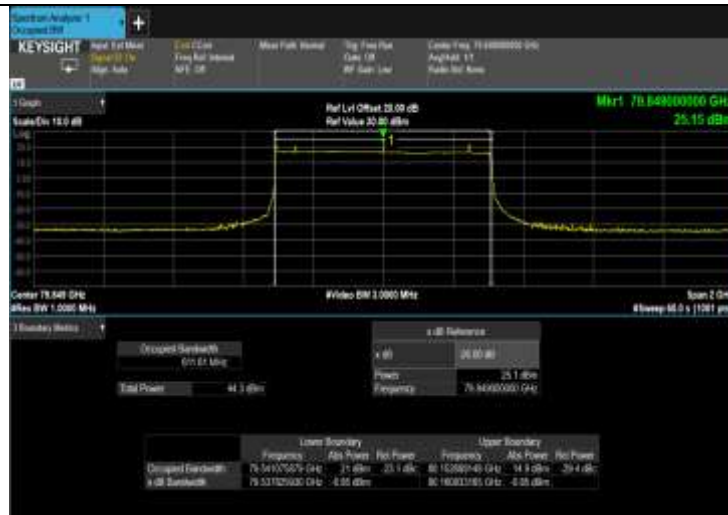
99% mbw +24°C 24V DC



99% mbw +24°C 7V DC



99% mbw +24°C 32V DC

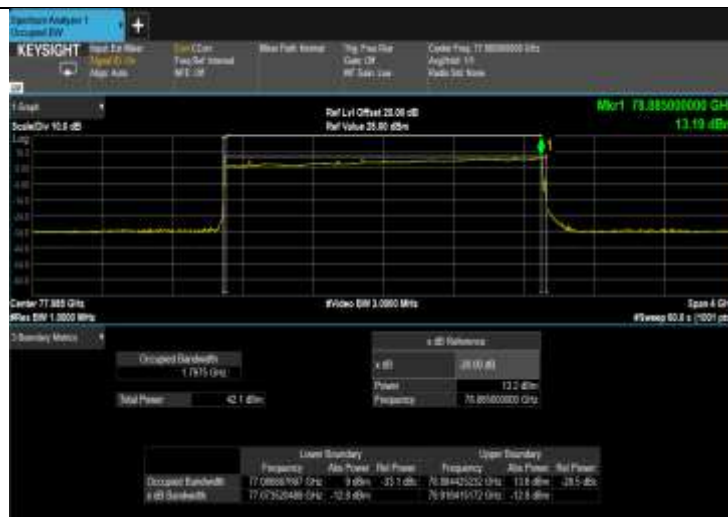


Test plots – Frequency stability (Waveform 2 @ 77.85 GHz)

99% mbw +24°C 24V DC



99% mbw +24°C 7V DC



99% mbw +24°C 32V DC



Test plots – Frequency stability (Waveform 2 @ 79.80 GHz)

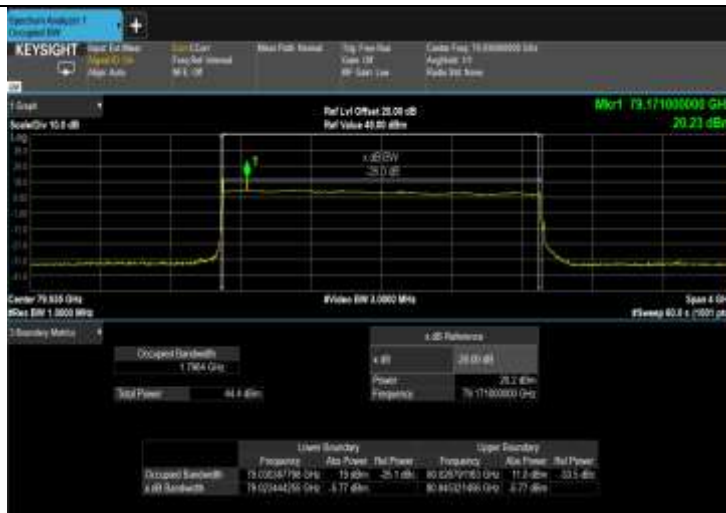
99% mbw +24°C 24V DC



99% mbw +24°C 7V DC



99% mbw +24°C 32V DC

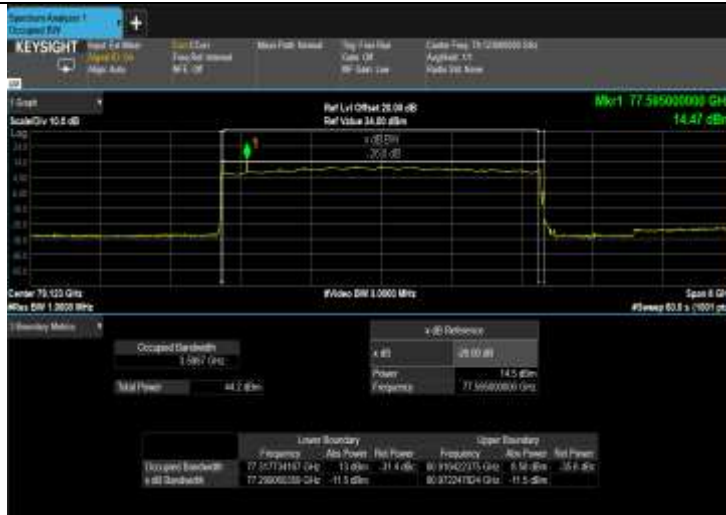


Test plots – Frequency stability (Waveform 3 @ 78.85 GHz)

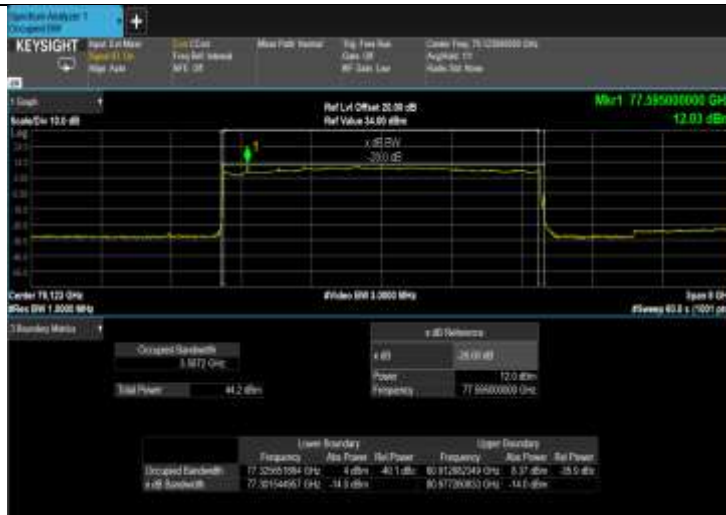
99% mbw +24°C 24V DC



99% mbw +24°C 7V DC

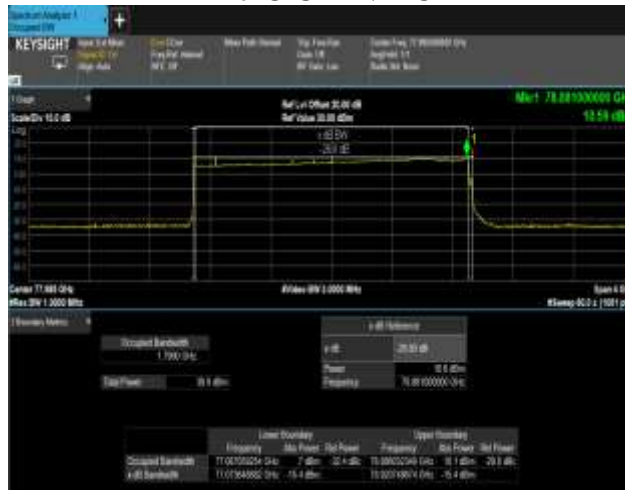


99% mbw +24°C 32V DC



Test plots – Frequency stability (Waveform 0 @ 77.85 GHz)

-40°C @ 24 V DC



-20°C @ 24V DC



-10°C @ 24V DC



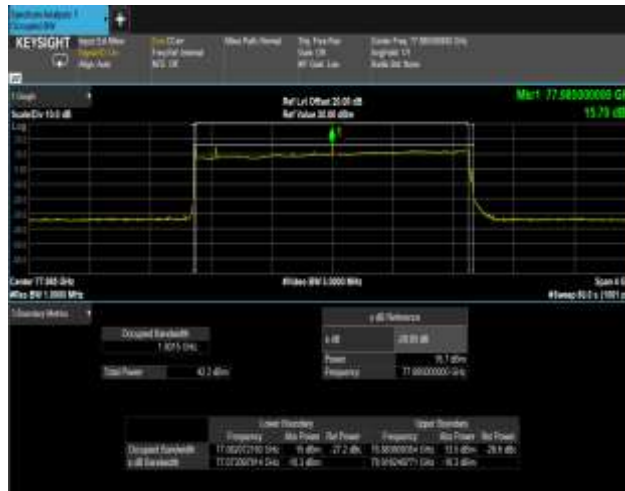
0°C @ 24V DC



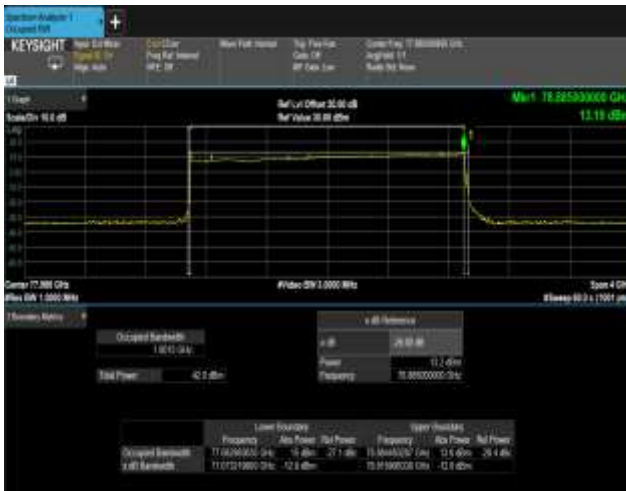
+10°C @ 24V DC



+20°C with 24 V DC



+30°C with 24V DC



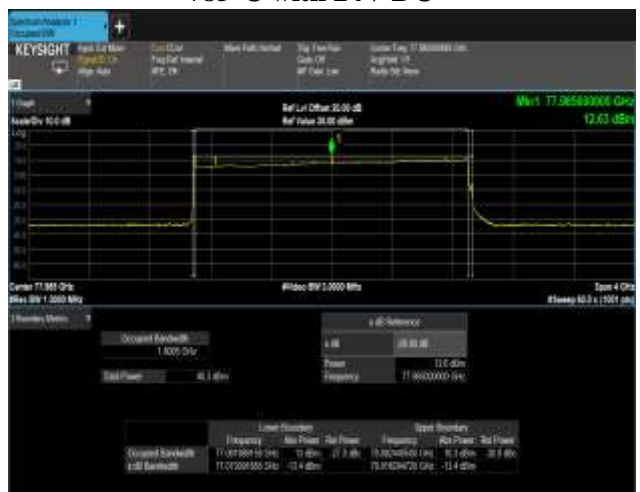
+40°C with 24V DC



+50°C with 24V DC

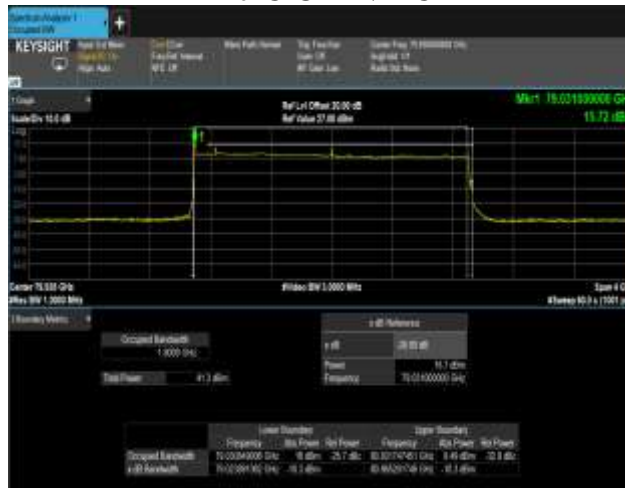


+85°C with 24V DC



Test plots – Frequency stability (Waveform 0 @ 79.80 GHz)

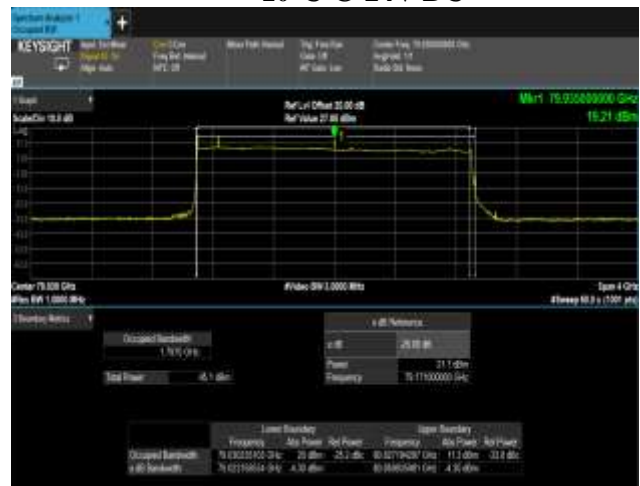
-40°C @ 24 V DC



-20°C @ 24V DC



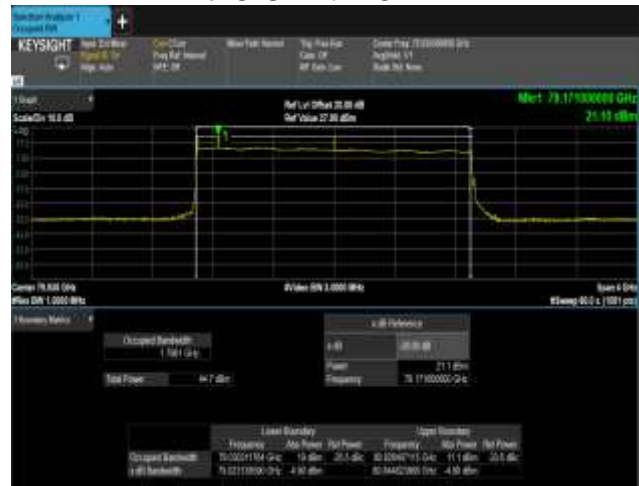
-10°C @ 24V DC



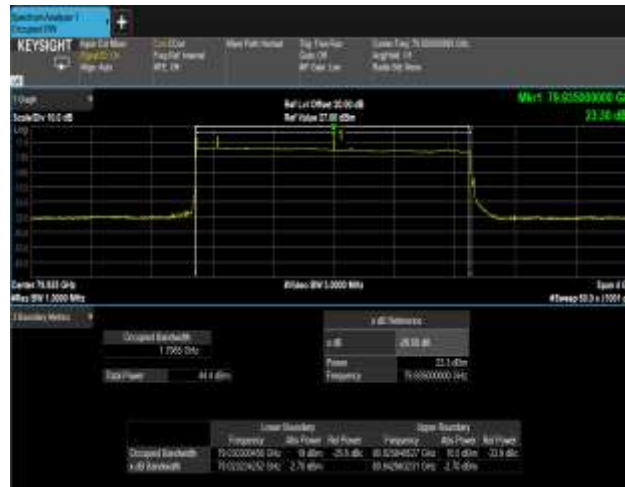
0°C @ 24V DC



+10°C @ 24V DC



+20°C with 24 V DC



+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC

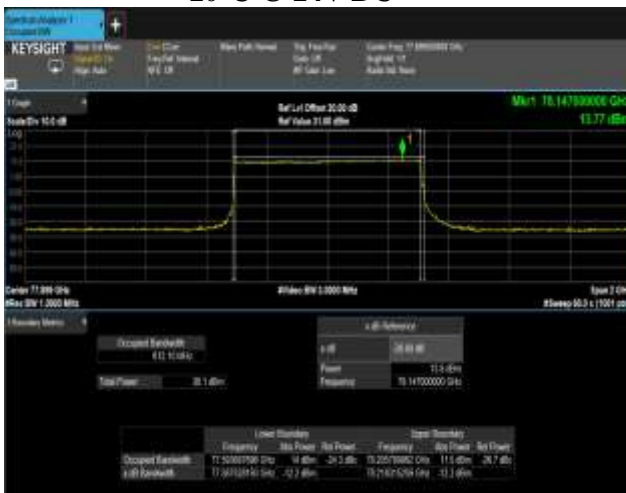


Test plots – Frequency stability (Waveform 1 @ 77.85 GHz)

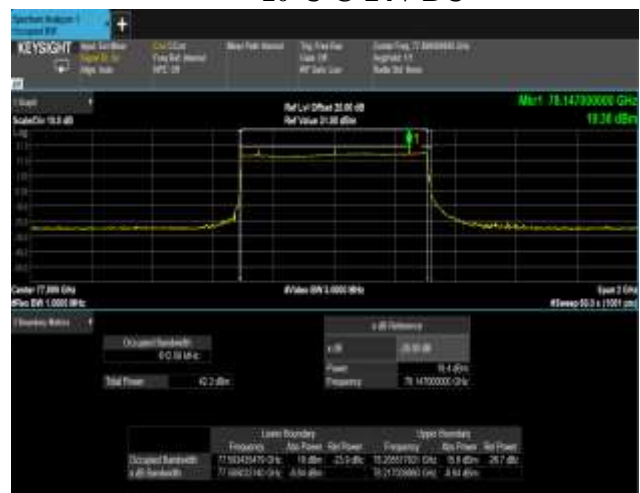
-40°C @ 24 V DC



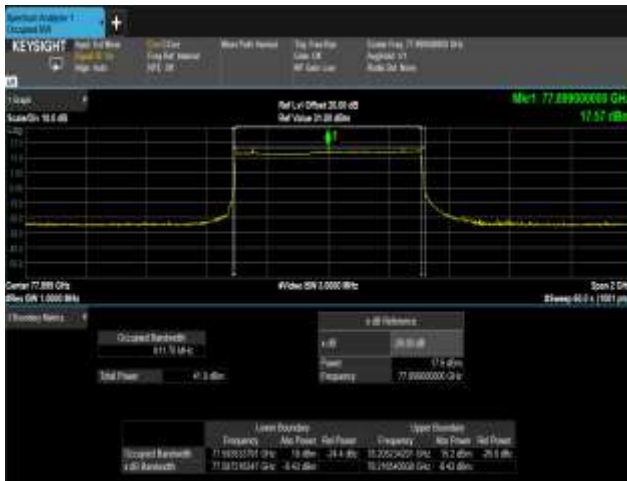
-20°C @ 24V DC



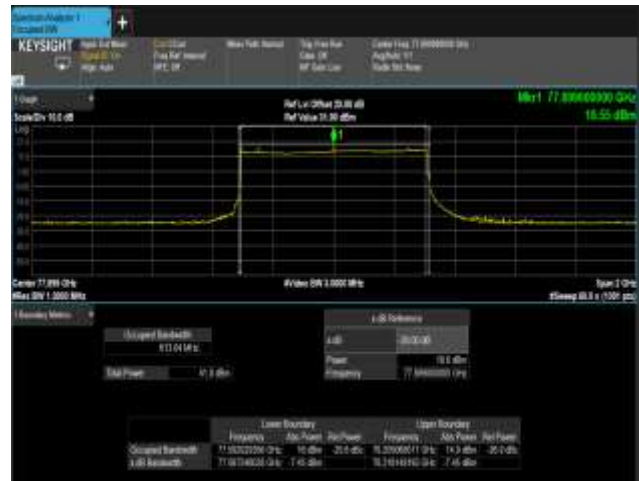
-10°C @ 24V DC



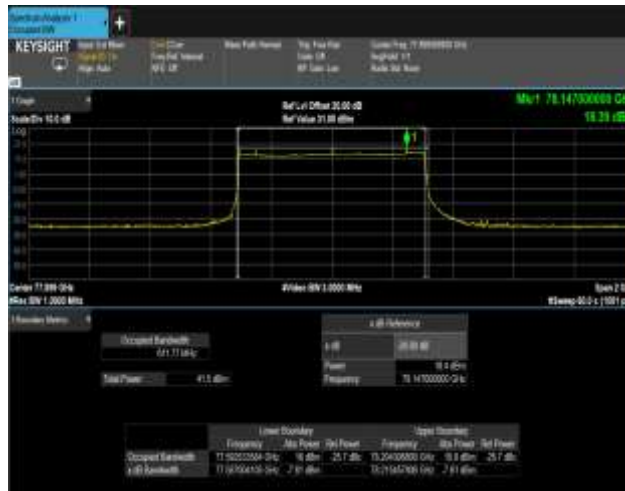
0°C @ 24V DC



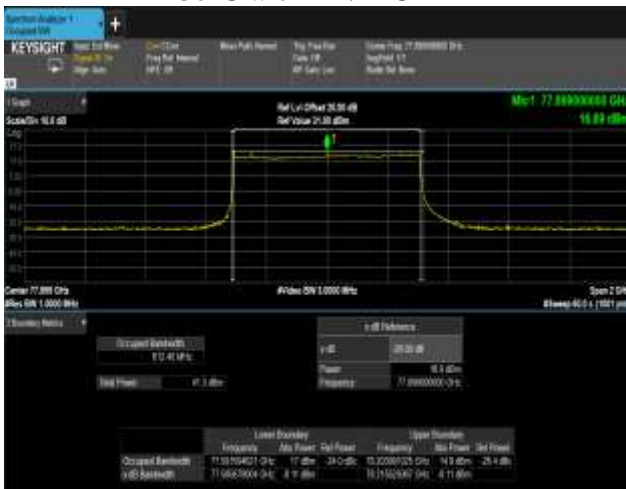
+10°C @ 24V DC



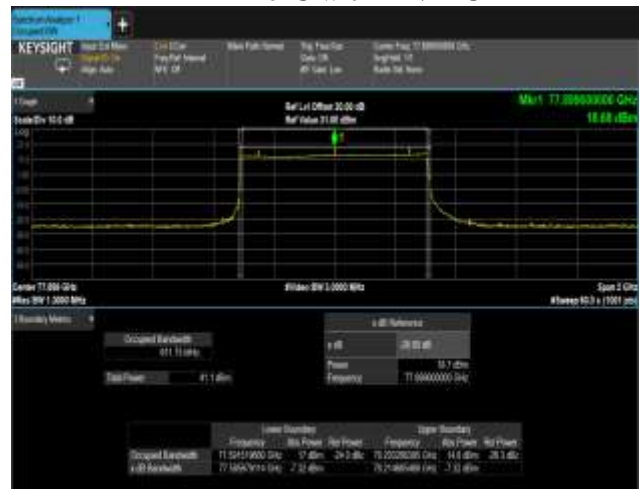
+20°C with 24 V DC



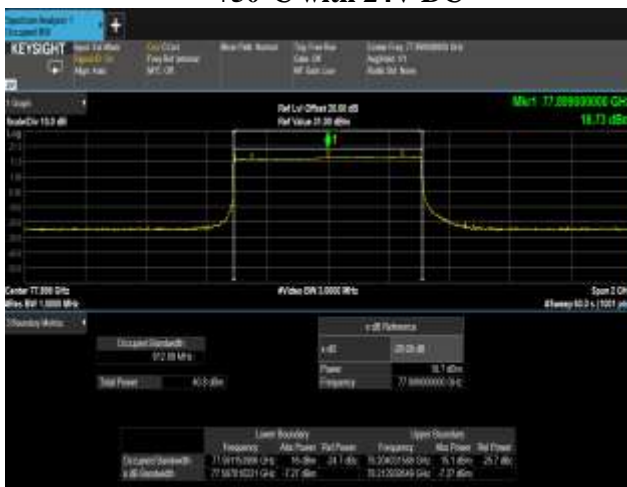
+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC

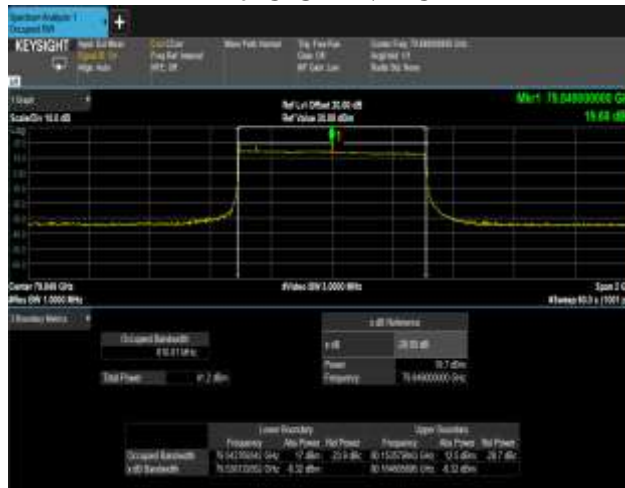


+85°C with 24V DC

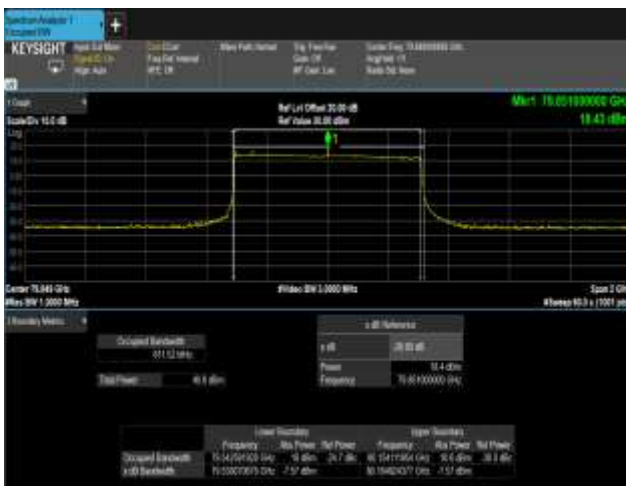


Test plots – Frequency stability (Waveform 1 @ 79.80 GHz)

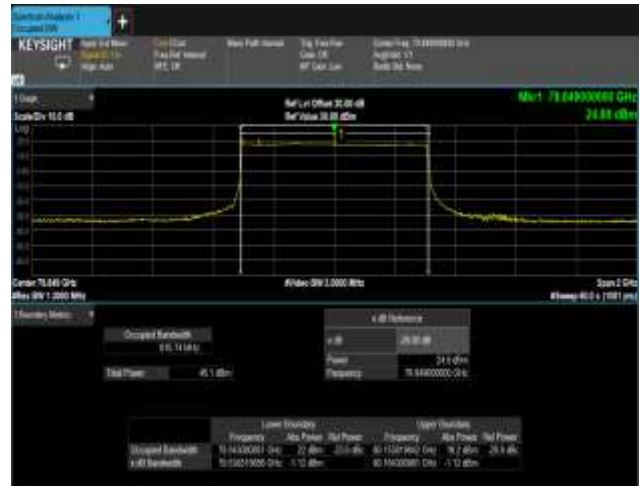
-40°C @ 24 V DC



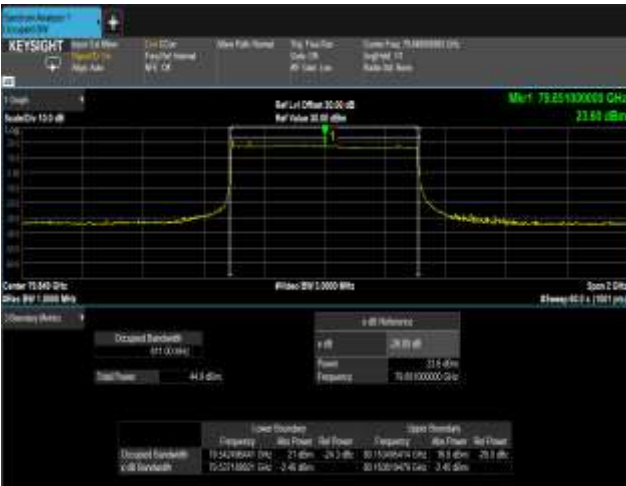
-20°C @ 24V DC



-10°C @ 24V DC



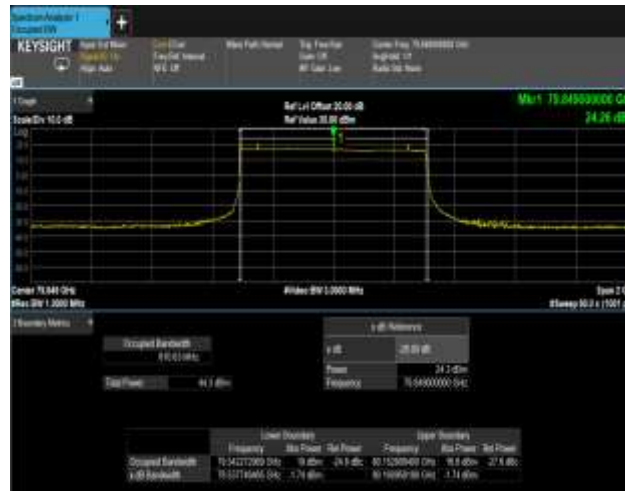
0°C @ 24V DC



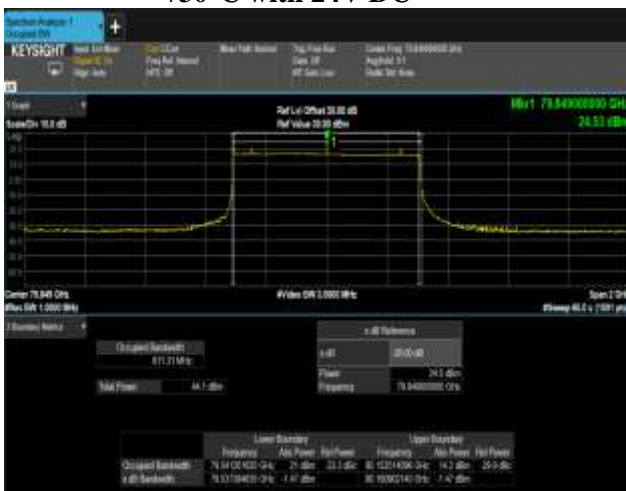
+10°C @ 24V DC



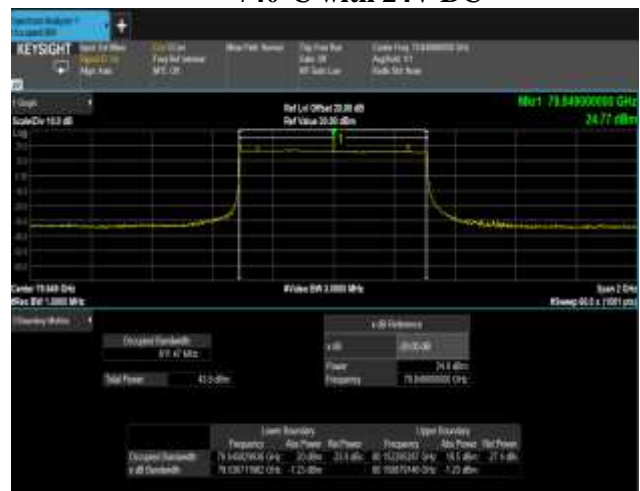
+20°C with 24 V DC



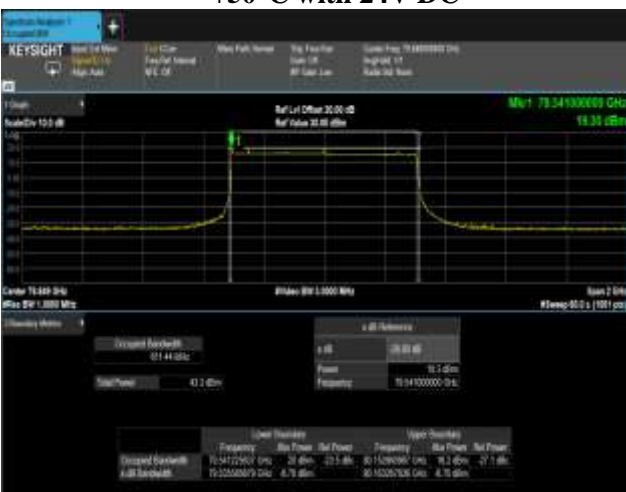
+30°C with 24V DC



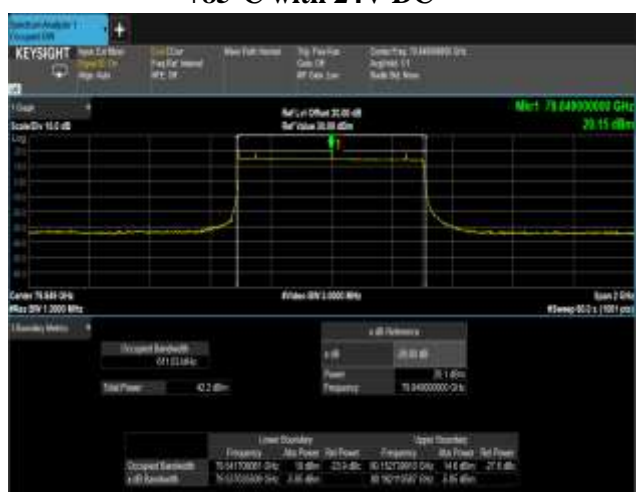
+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC



Test plots – Frequency stability (Waveform 2 @ 77.85 GHz)

-40°C @ 24 V DC



-20°C @ 24V DC



-10°C @ 24V DC



0°C @ 24V DC



+10°C @ 24V DC



+20°C with 24 V DC



+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC

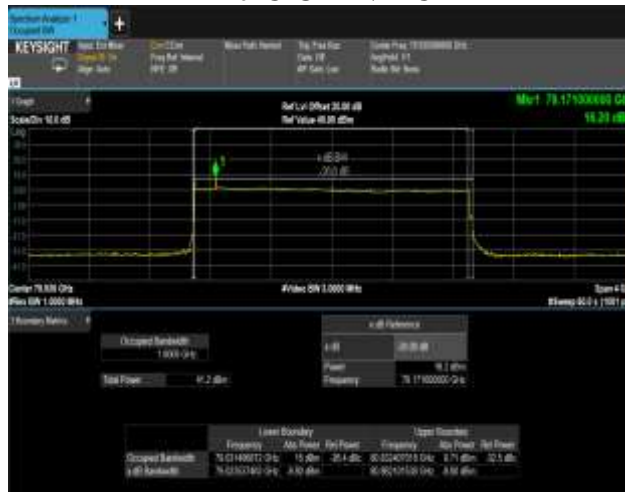


+85°C with 24V DC



Test plots – Frequency stability (Waveform 2 @ 79.80 GHz)

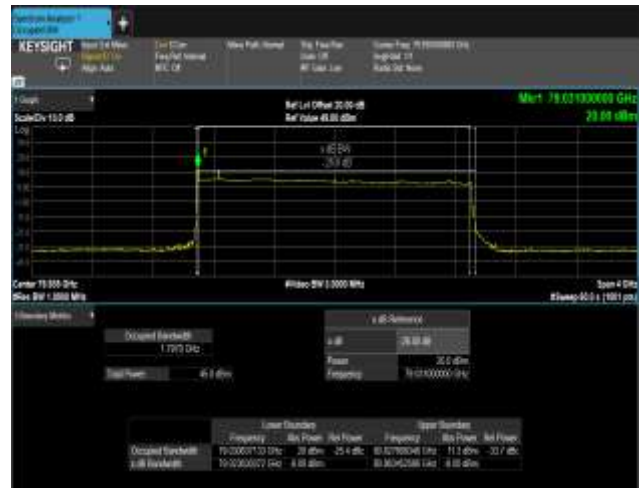
-40°C @ 24 V DC



-20°C @ 24V DC



-10°C @ 24V DC



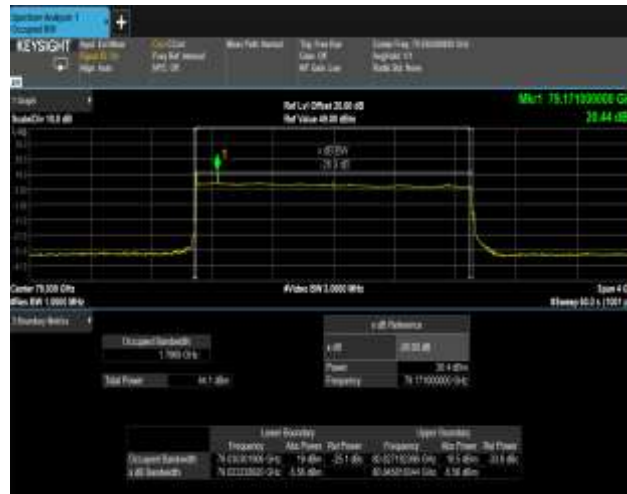
0°C @ 24V DC



+10°C @ 24V DC



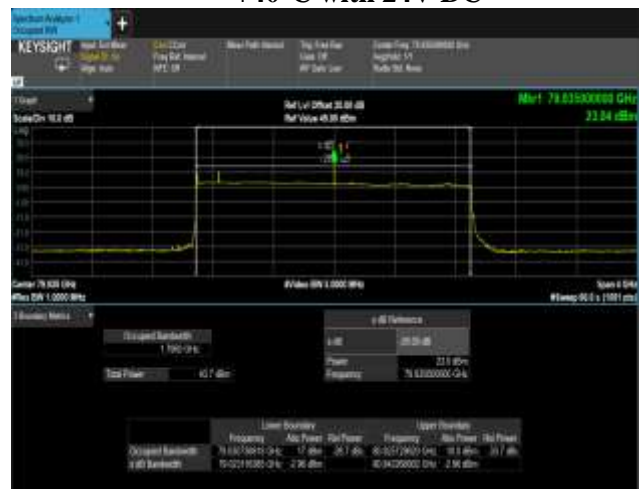
+20°C with 24 V DC



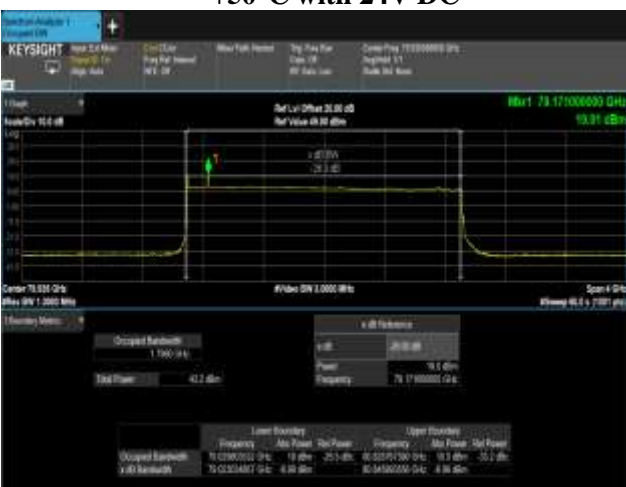
+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC

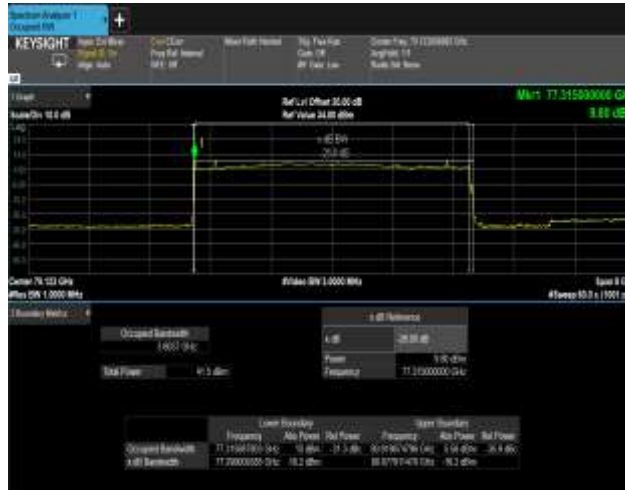


+85°C with 24V DC



Test plots – Frequency stability (Waveform 3 @ 78.85 GHz)

-40°C @ 24 V DC



-20°C @ 24V DC



-10°C @ 24V DC



0°C @ 24V DC



+10°C @ 24V DC



+20°C with 24 V DC



+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC

