

**Annex acc. to FCC Title 47 CFR Part 95 M  
relating to  
s.m.s, smart microwave sensors GmbH  
DRVEGRD 166**

**Annex no. 3  
Test results  
Channel occupancy/ bandwidth**

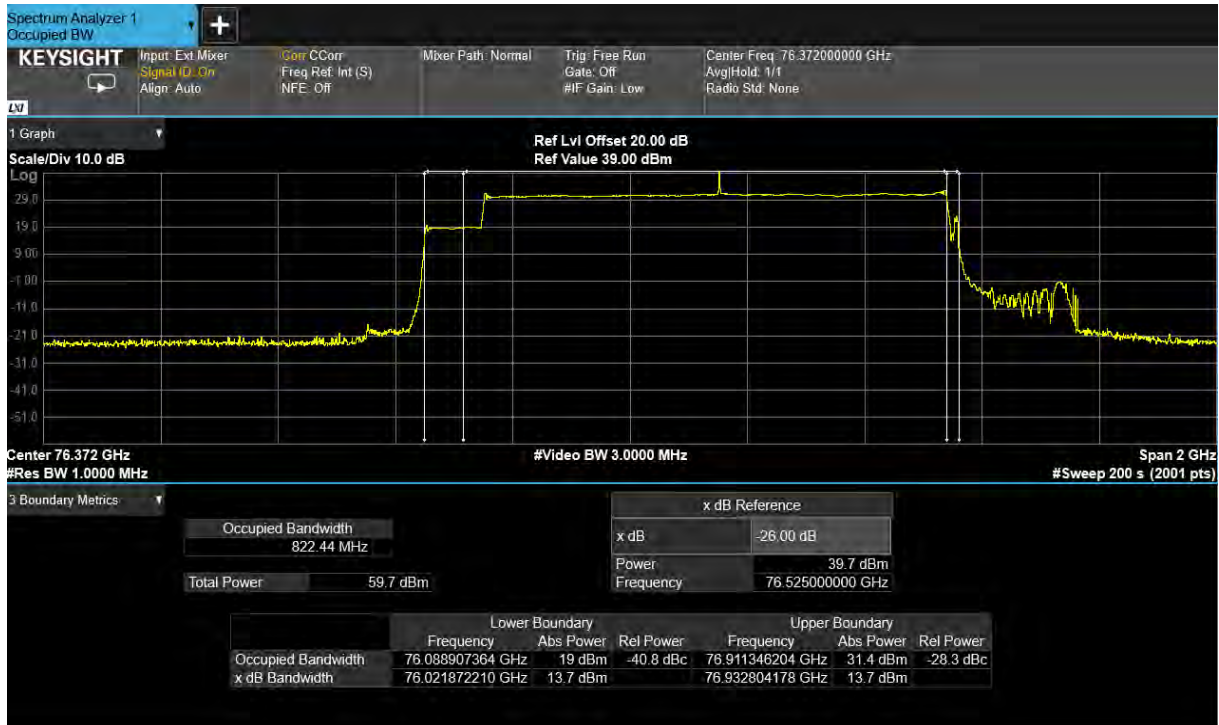
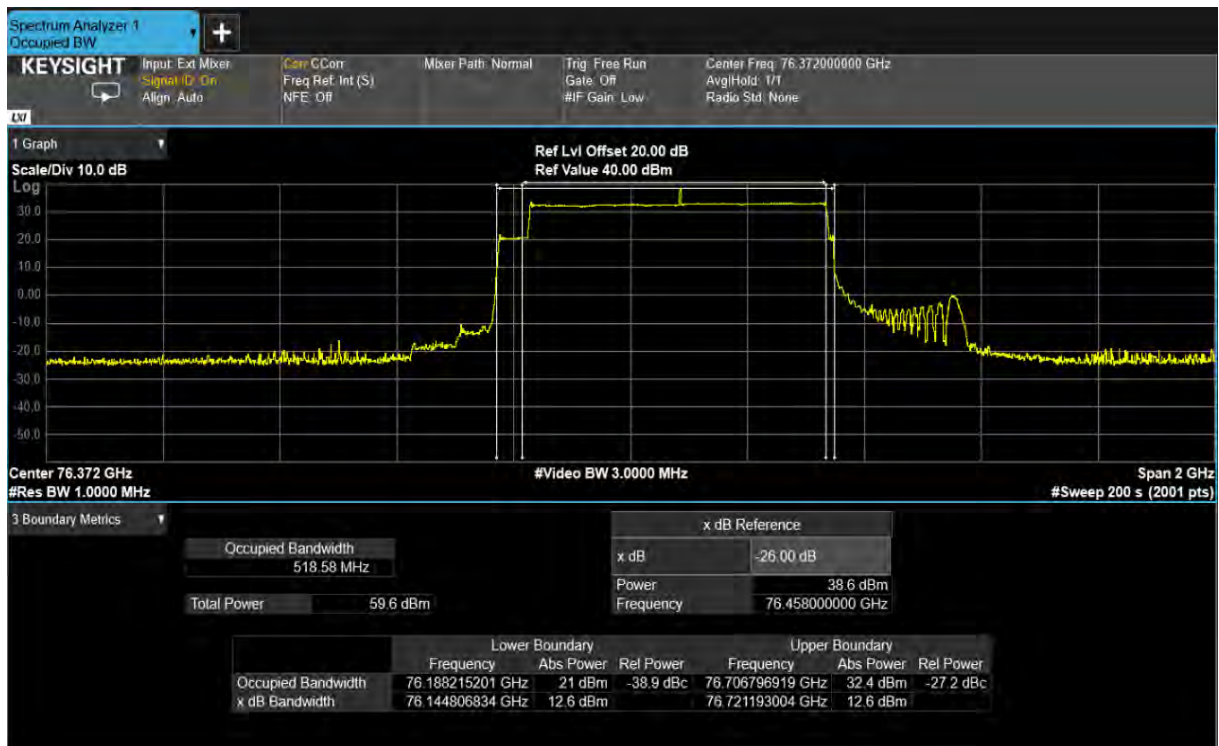
**Title 47 - Telecommunication  
Part 95 - Personal Radio Services  
Subpart M – The 76 – 81 GHz Band Radar Service  
Measurement Procedure:  
ANSI C63.26-2015**



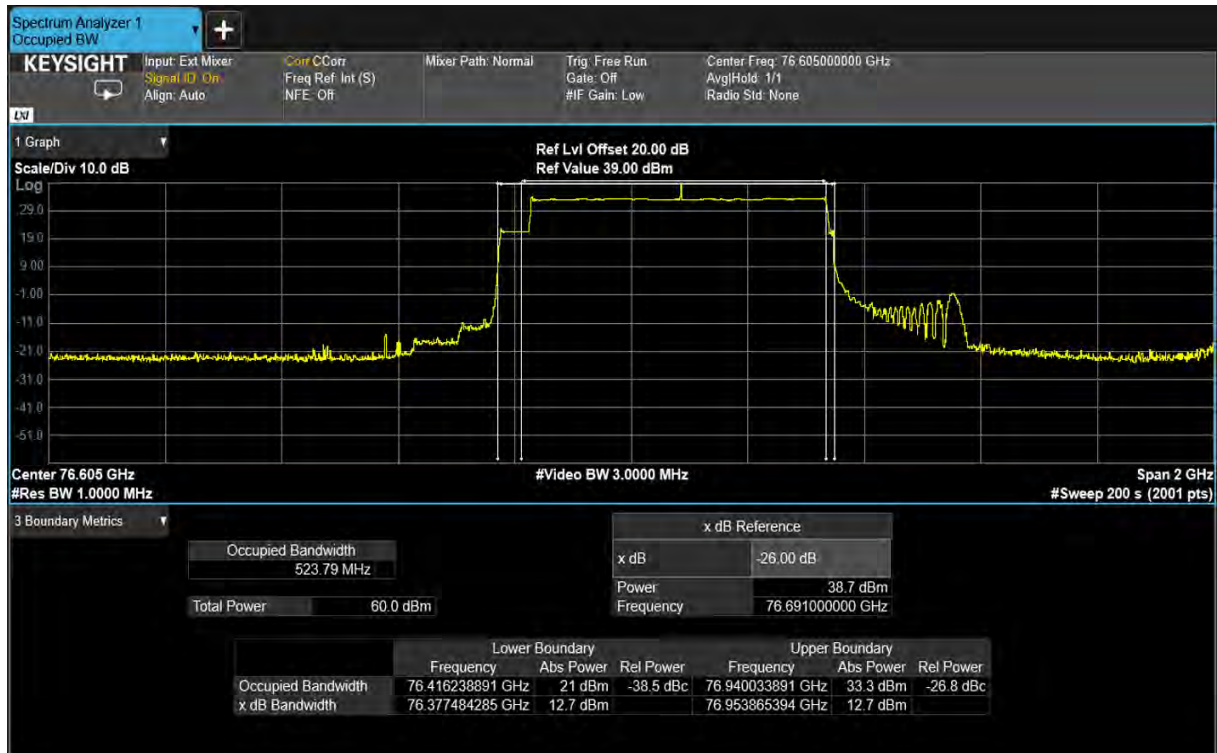
Deutsche  
Akkreditierungsstelle  
D-PL-12053-01-03

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EUT: DRVEGRD 166 FCC ID: W34UMRRA1A6-A FCC Title 47 CFR Part 95 M Date of issue: 2025-01-28

## Test plots – Measured 26 dB Bandwidth

EUT Waveform SRR / CF @ 76.372 GHzEUT Waveform MRR / CF @ 76.372 GHz

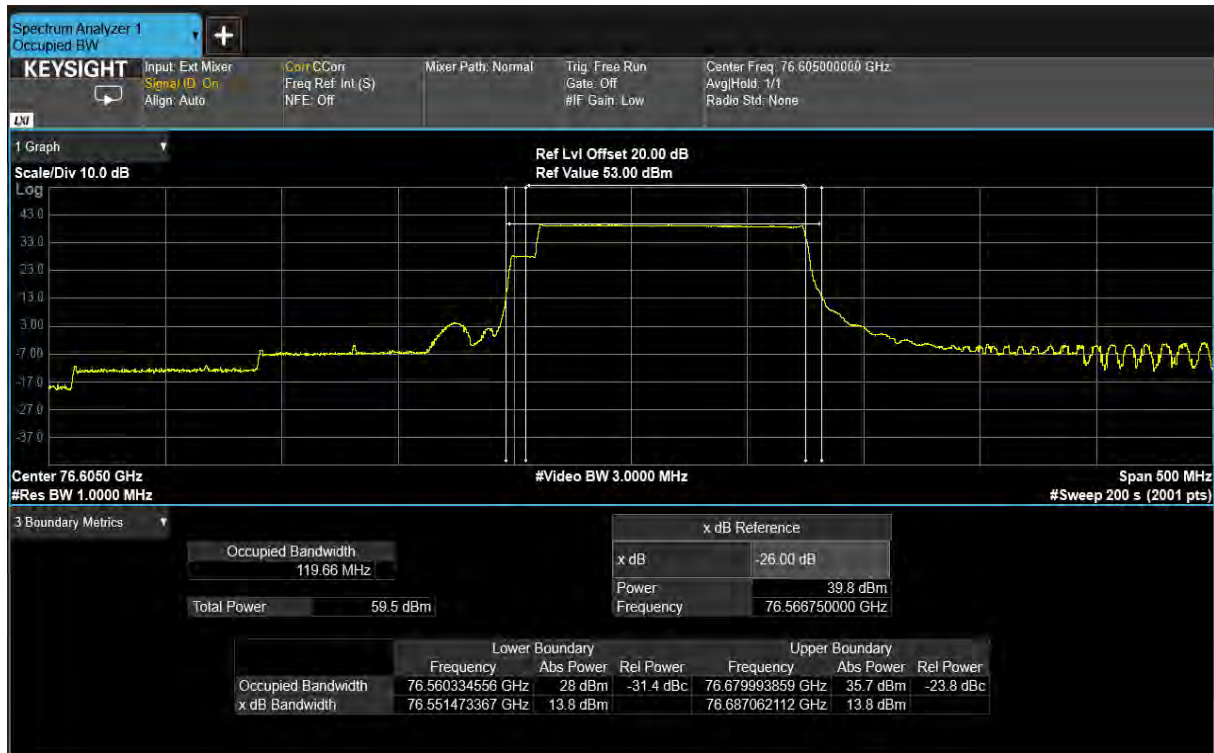
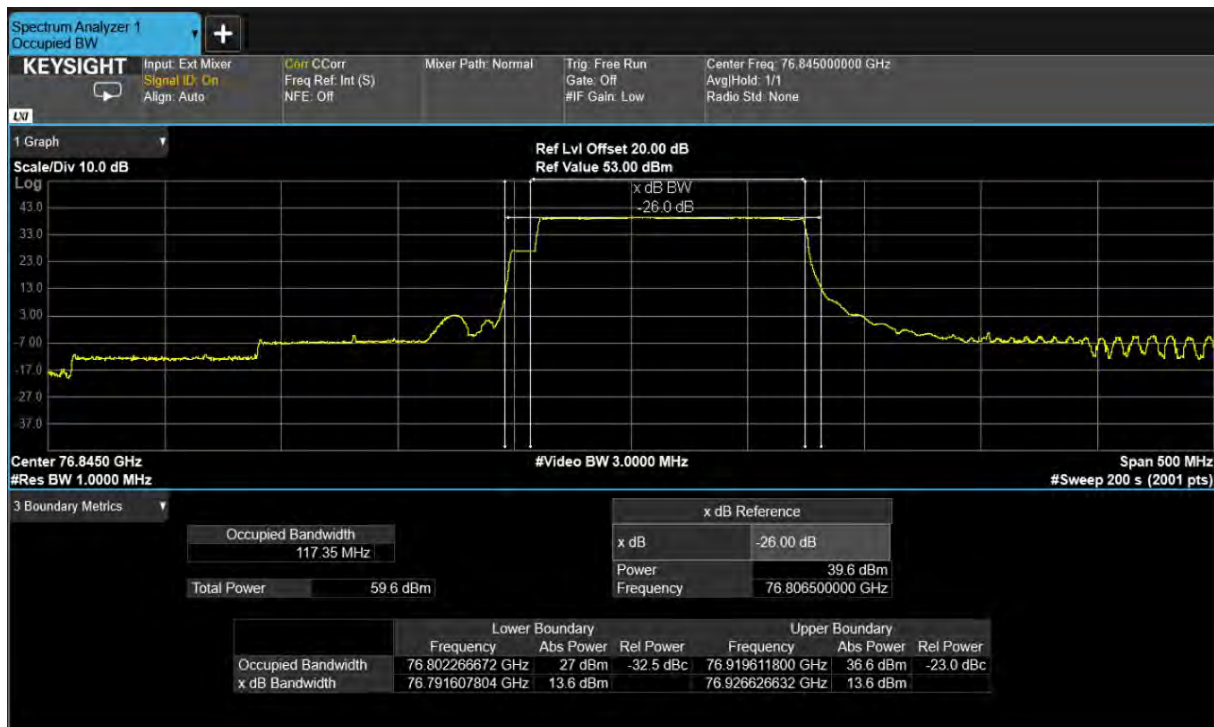
### EUT Waveform MRR / CF @ 76.605 GHz



### EUT Waveform LRR / CF @ 76.125 GHz



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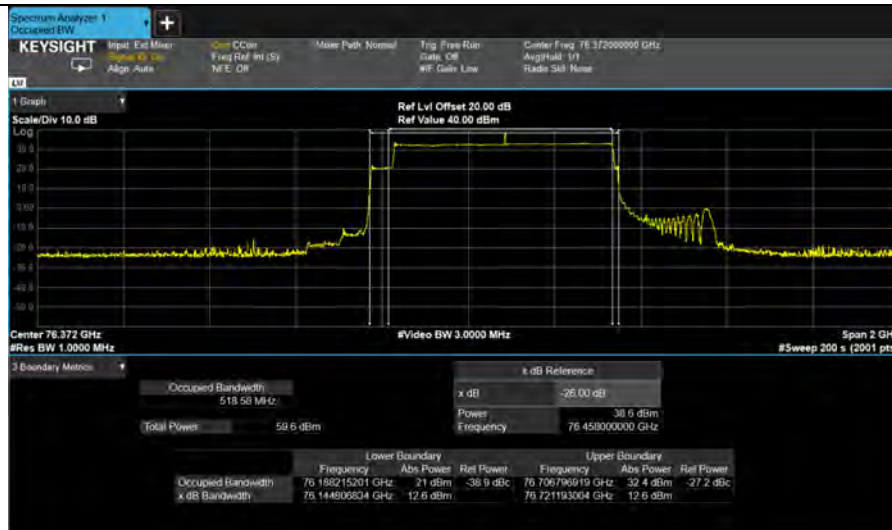
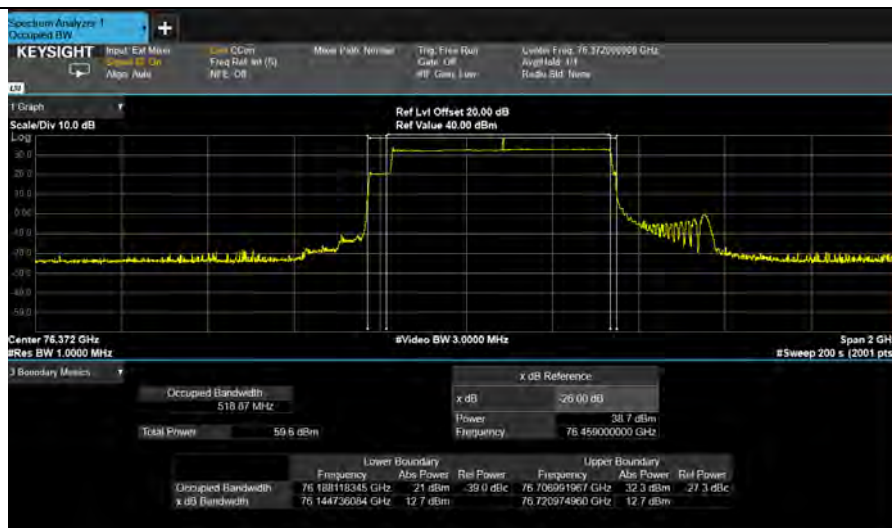
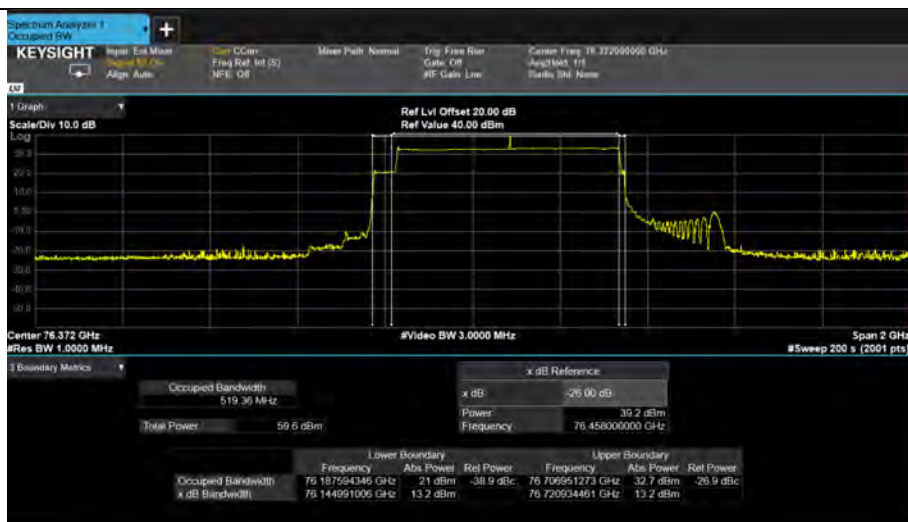
EUT Waveform LRR / CF @ 76.605 GHzEUT Waveform LRR / CF @ 76.845 GHz



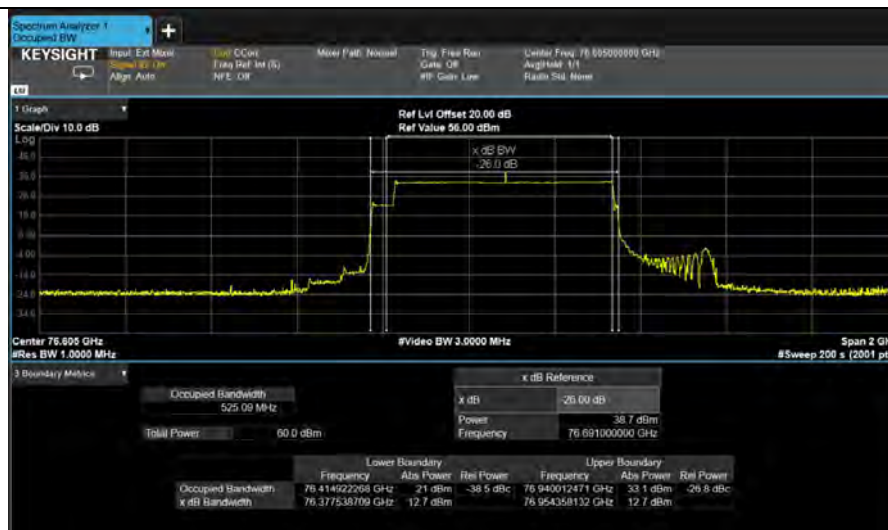
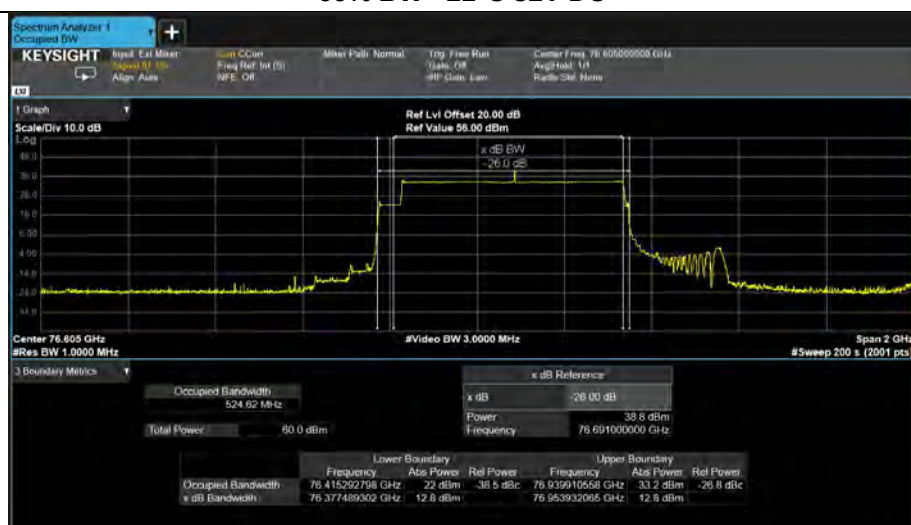
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**Test plots – Frequency stability (EUT Waveform SRR / CF@ 76.372 GHz)****99% BW +21°C 24V DC****99% BW +21°C 7V DC****99% BW +21°C 32V DC**

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**Test plots – Frequency stability (EUT Waveform MRR / CF@ 76.605 GHz)****99% BW +21°C 24V DC****99% BW +21°C 7V DC****99% BW +21°C 32V DC**



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**Test plots – Frequency stability (EUT Waveform LRR / CF@ 76.125 GHz)****99% BW +21°C 24V DC****99% BW +21°C 7V DC****99% BW +21°C 32V DC**



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EUT: DRVEGRD 166 FCC ID: W34UMRRA1A6-A FCC Title 47 CFR Part 95 M Date of issue: 2025-01-28

## Test plots – Frequency stability (EUT Waveform LRR / CF@ 76.605 GHz)

### 99% BW +21°C 24V DC



### 99% BW +21°C 7V DC



### 99% BW +21°C 32V DC



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EUT: DRVEGRD 166 FCC ID: W34UMRRA1A6-A FCC Title 47 CFR Part 95 M Date of issue: 2025-01-28

**Test plots – Frequency stability (EUT Waveform LRR / CF@ 76.845 GHz)****99% BW +21°C 24V DC****99% BW +21°C 7V DC****99% BW +21°C 32V DC**

**Test plots – Frequency stability (EUT Waveform SRR / CF @ 76.372 GHz)**

**-40°C with 24V DC**



**-20°C with 24V DC**



**-10°C with 24V DC**



**0°C with 24V DC**



**10°C with 24V DC**



**20°C with 24V DC**





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+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC

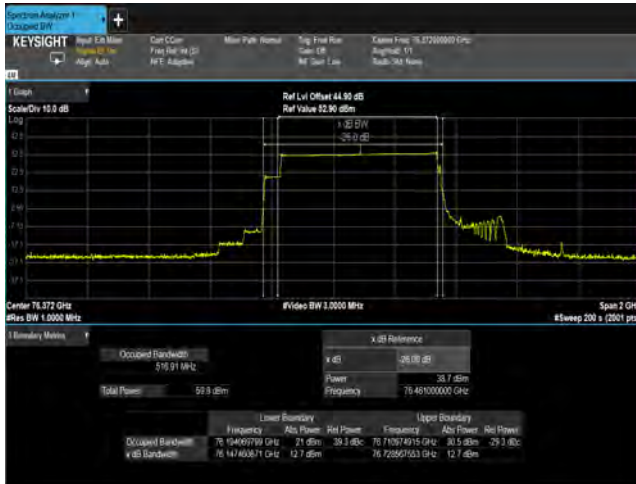


+85°C with 24V DC

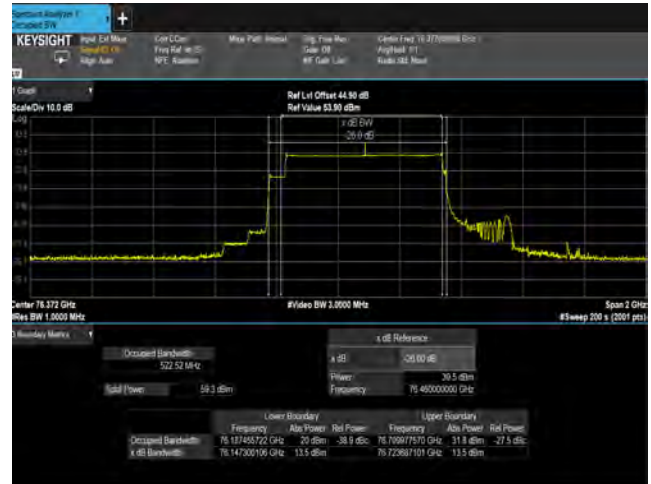


**Test plots – Frequency stability (EUT Waveform MRR / CF @ 76.372 GHz)**

**-40°C with 24V DC**



**-20°C with 24V DC**



**-10°C with 24V DC**



**0°C with 24V DC**



**10°C with 24V DC**

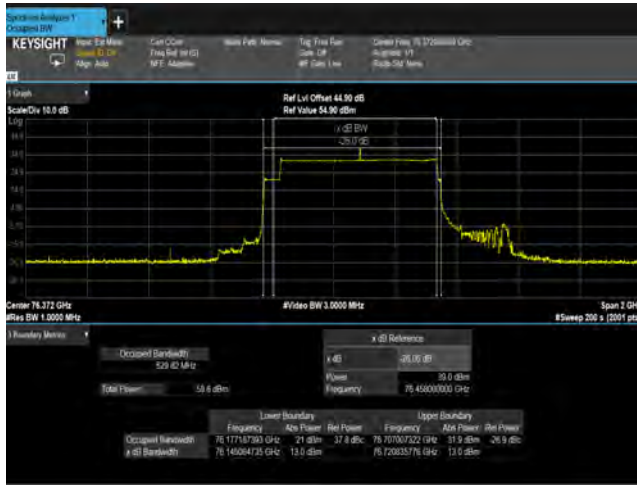


**20°C with 24V DC**

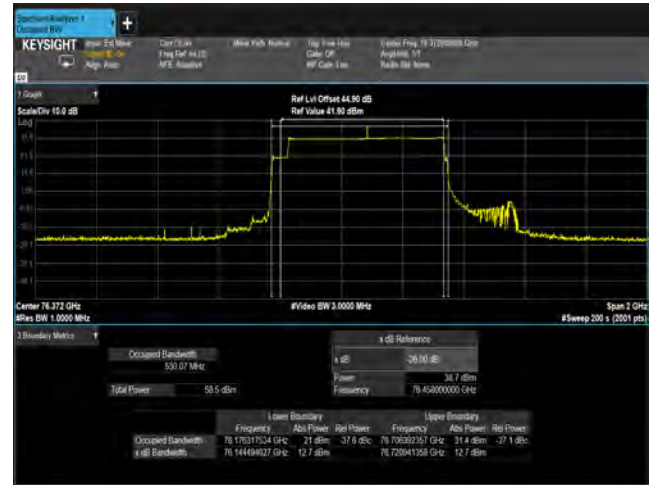


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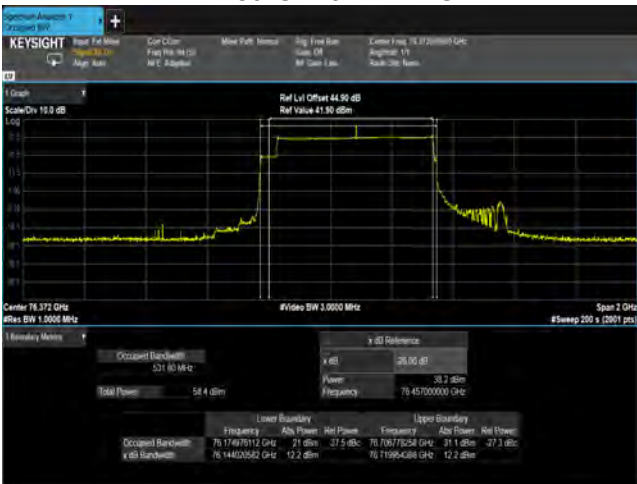
**+30°C with 24V DC**



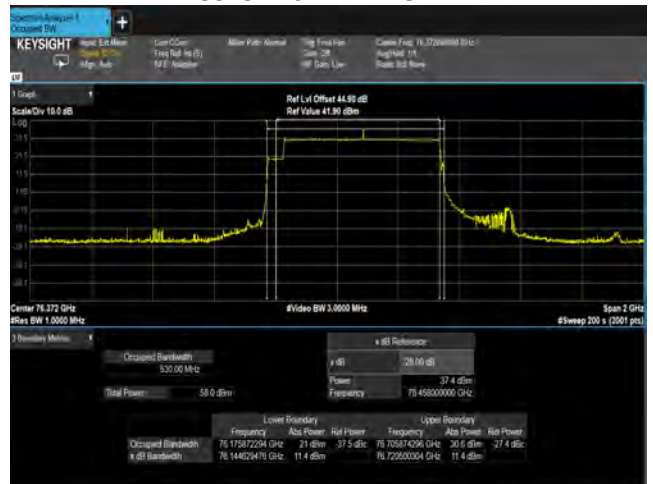
**+40°C with 24V DC**



**+50°C with 24V DC**



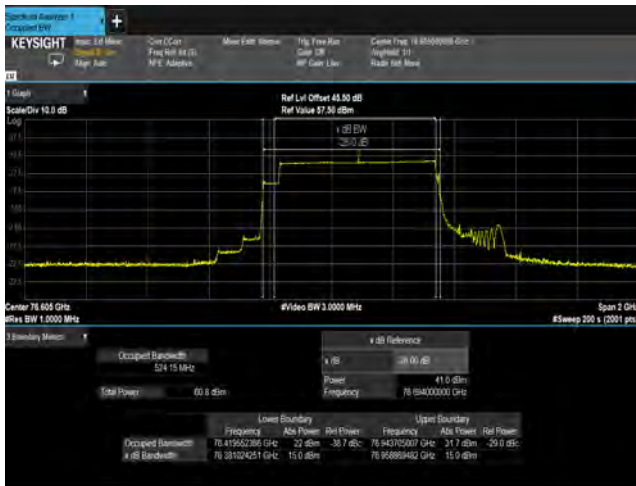
**+85°C with 24V DC**



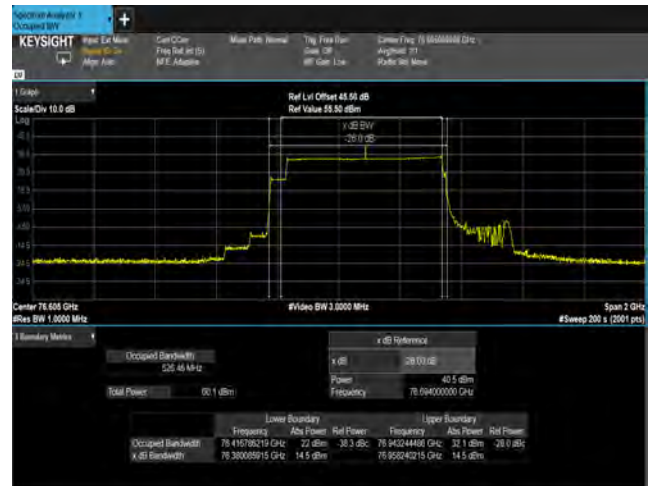


## Test plots – Frequency stability (EUT Waveform MRR / CF @ 76.605 GHz)

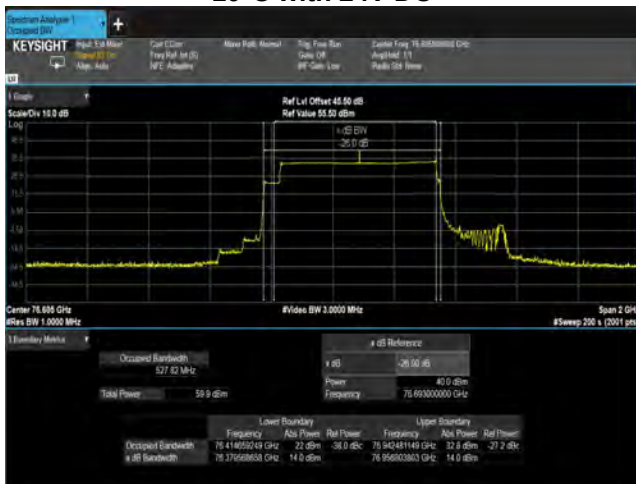
-40°C with 24V DC



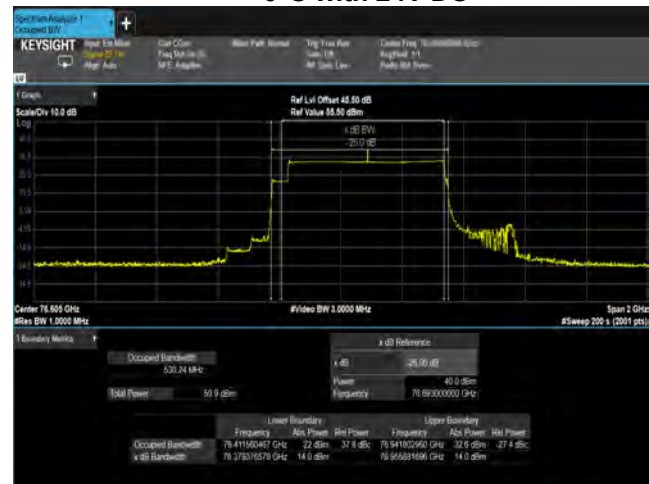
-20°C with 24V DC



-10°C with 24V DC



0°C with 24V DC



10°C with 24V DC

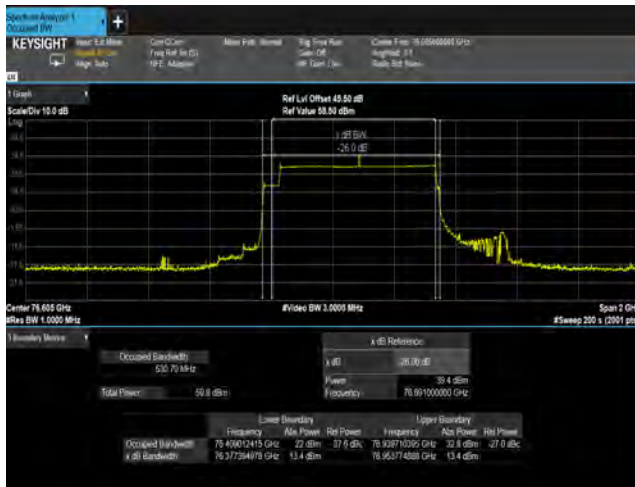


20°C with 24V DC



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+30°C with 24V DC



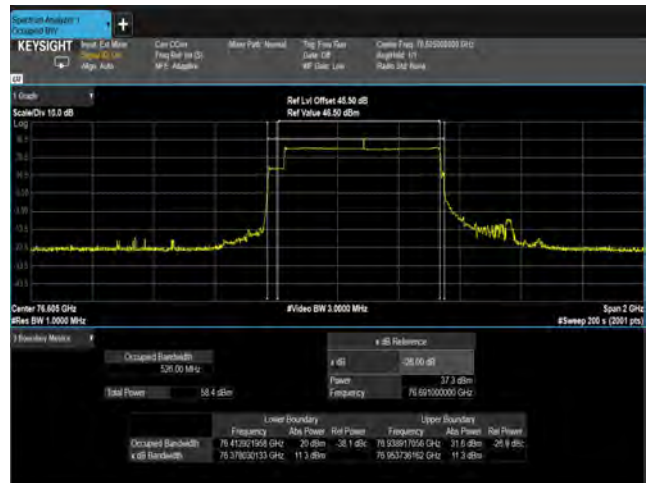
+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC



Test plots – Frequency stability (EUT Waveform LRR / CF @ 76.125 GHz)

-40°C with 24V DC



-20°C with 24V DC



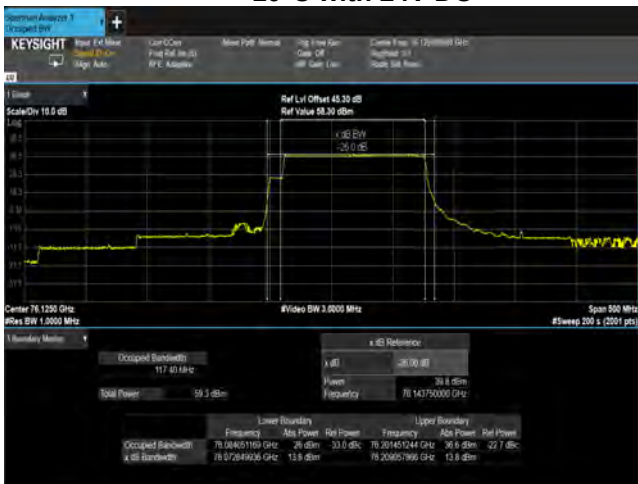
-10°C with 24V DC



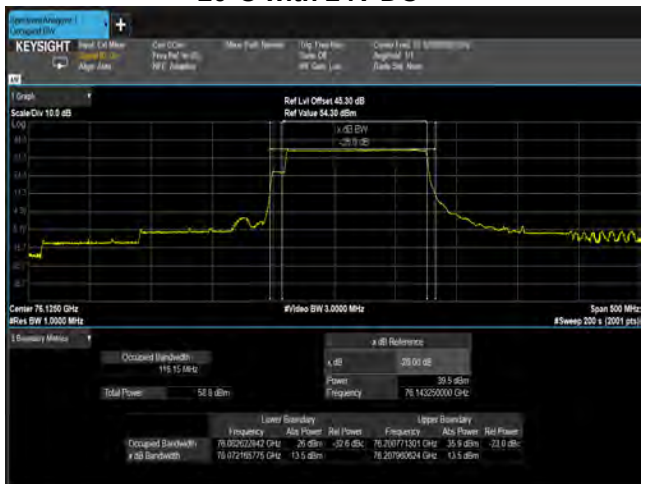
0°C with 24V DC



10°C with 24V DC



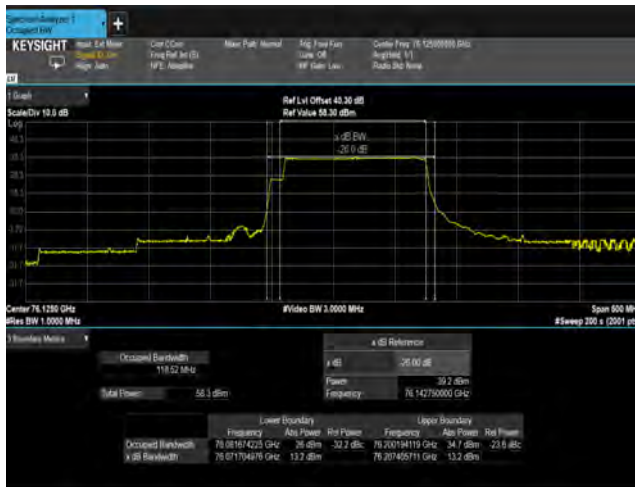
20°C with 24V DC



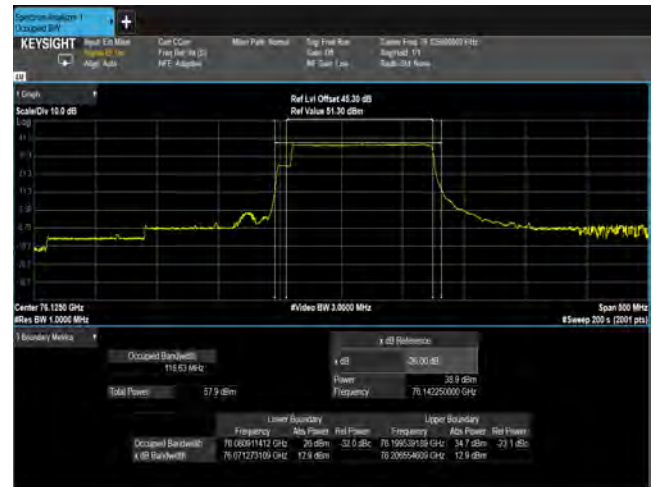


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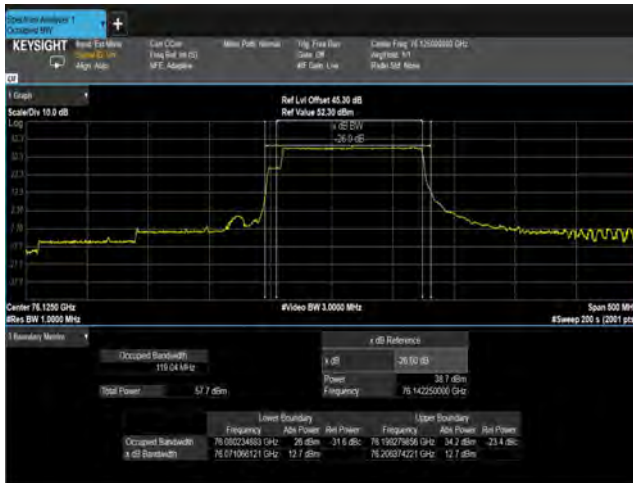
+30°C with 24V DC



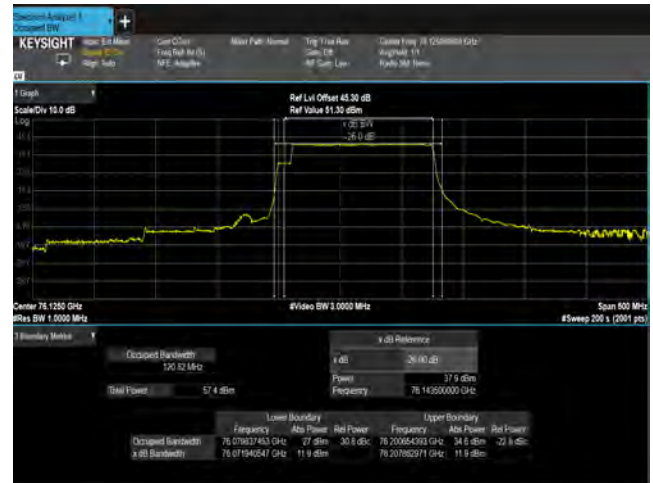
+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC

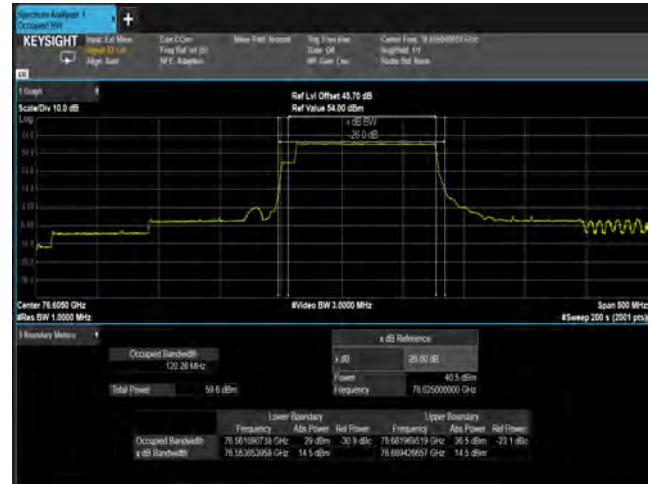


**Test plots – Frequency stability (EUT Waveform LRR / CF @ 76.605 GHz)**

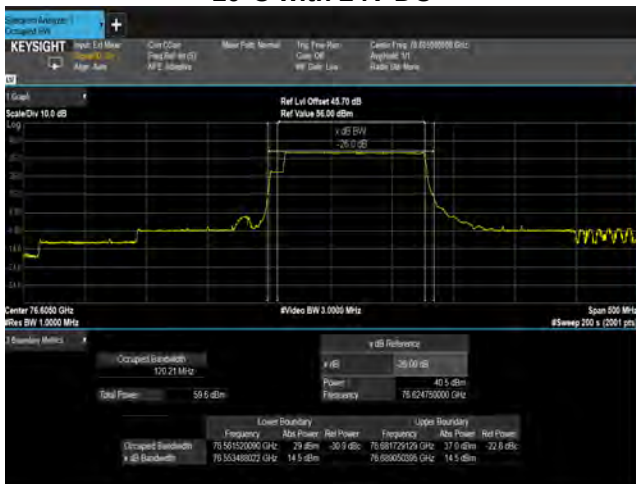
**-40°C with 24V DC**



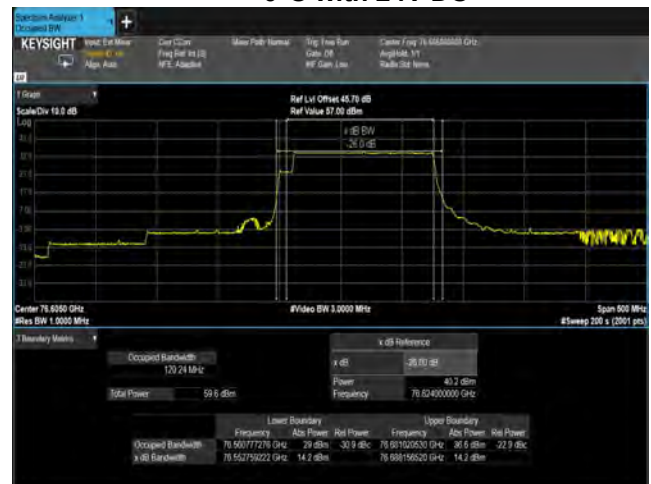
**-20°C with 24V DC**



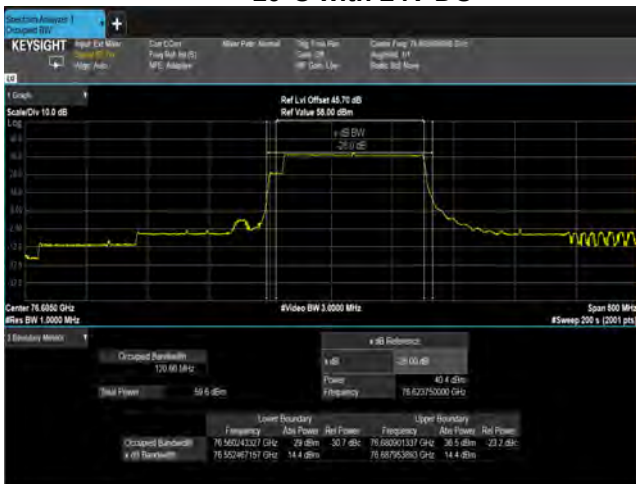
**-10°C with 24V DC**



**0°C with 24V DC**



**10°C with 24V DC**

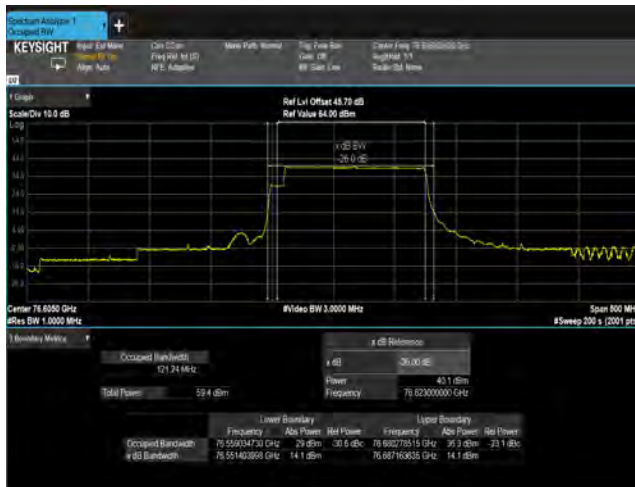


**20°C with 24V DC**

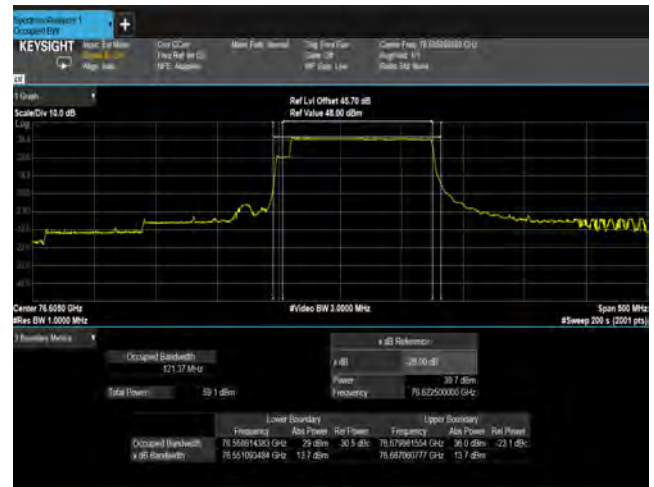


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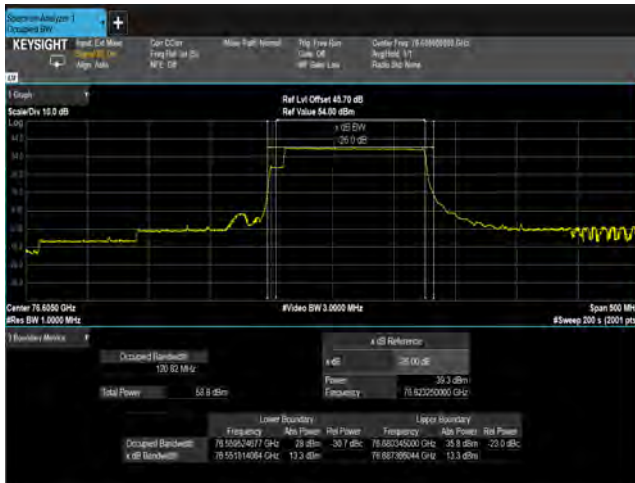
+30°C with 24V DC



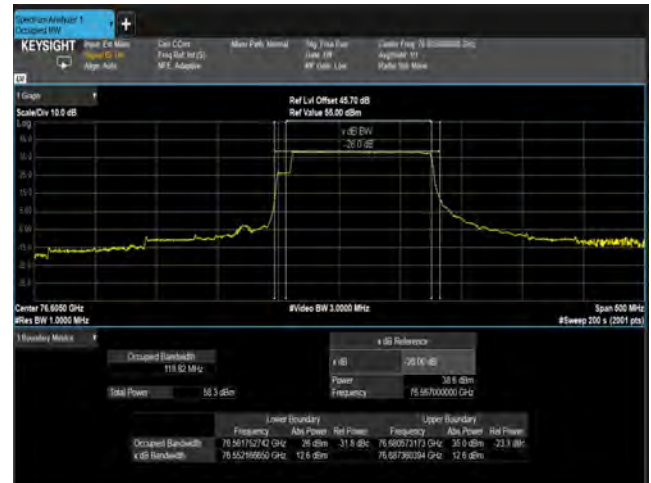
+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC



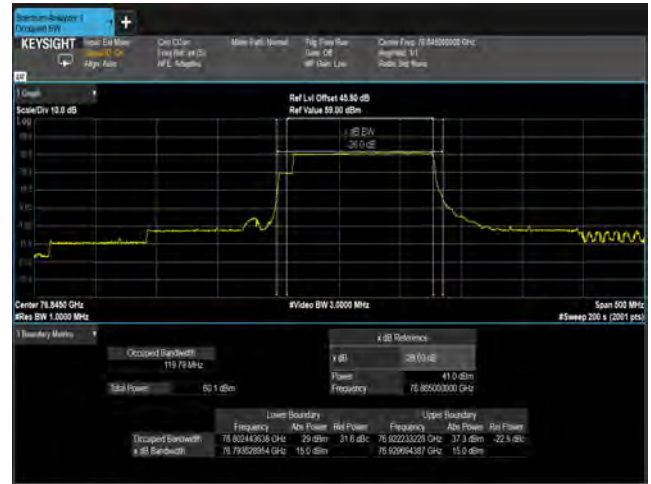


Test plots – Frequency stability (EUT Waveform LRR / CF @ 76.845 GHz)

-40°C with 24V DC



-20°C with 24V DC



-10°C with 24V DC



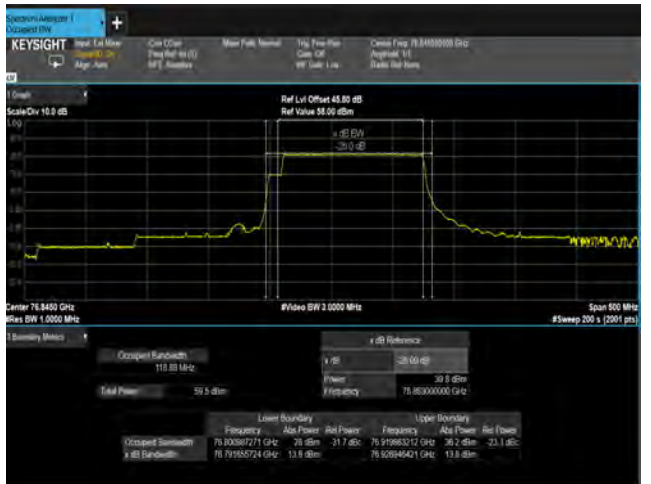
0°C with 24V DC



10°C with 24V DC

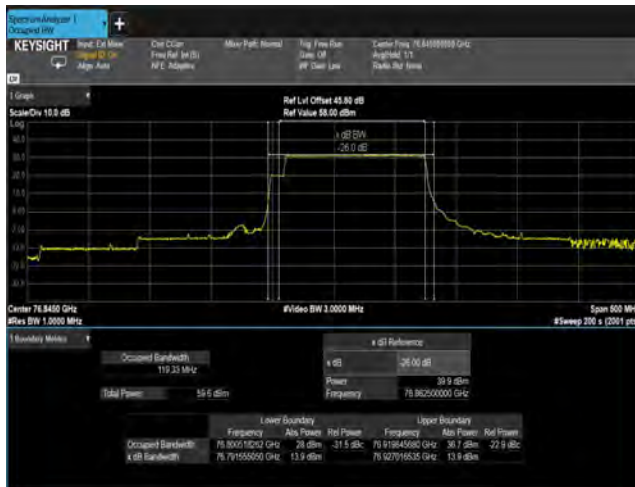


20°C with 24V DC



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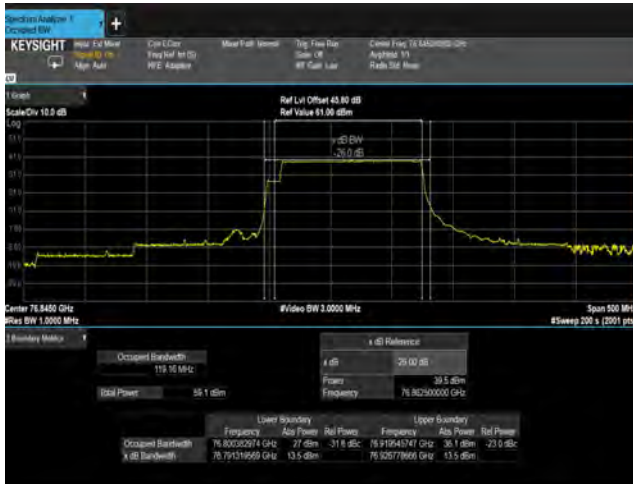
+30°C with 24V DC



+40°C with 24V DC



+50°C with 24V DC



+85°C with 24V DC

