

TEST REPORT

REPORT NO: **SATEL-TR-30012013-TiM**

TEST PERIOD: 30.1.2013

TEST SITE: Satel / R&D Dept., Salo

DEVICE UNDER TEST: **SATEL-TA13 (PCB:SPL0005g PSN:1223000148)**

TESTS PERFORMED:

Sideband Spectrum:

- 12.5 kHz channel spacing, transmitter frequency 420 MHz (page 2, figure 1)
- 12.5 kHz channel spacing, transmitter frequency 460 MHz (page 3, figure 2)
- 25 kHz channel spacing, transmitter frequency 420 MHz (pages 4-5, figures 3-4)
- 25 kHz channel spacing, transmitter frequency 460 MHz (pages 6-7, figures 5-6)

Note: transmitter modulated with pseudorandom data

TEST STANDARD: TIA/EIA-603, clause 2.2.11.

LIST OF MEASURING EQUIPMENT:

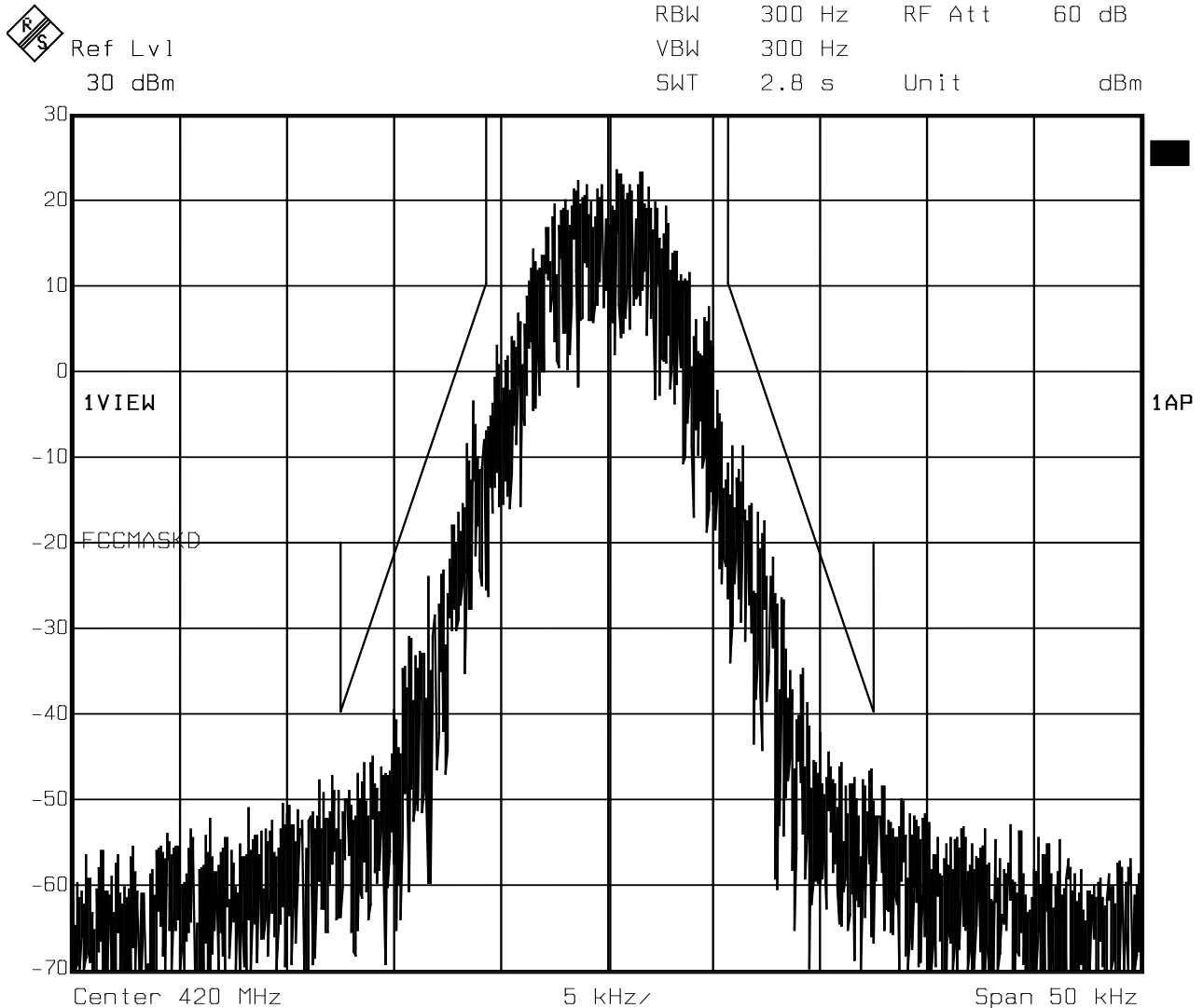
- Power supply Thurlby Thandar Instruments EX354T Serial nro. 140816
- Spectrum analyzer Rohde & Schwarz FSEA Serial nro. 826029/013, Calibrated 2012-Jun-28

TESTS PERFORMED BY:

Timoteus Marttila

TEST RESULTS

Test at 12.5 kHz channel spacing



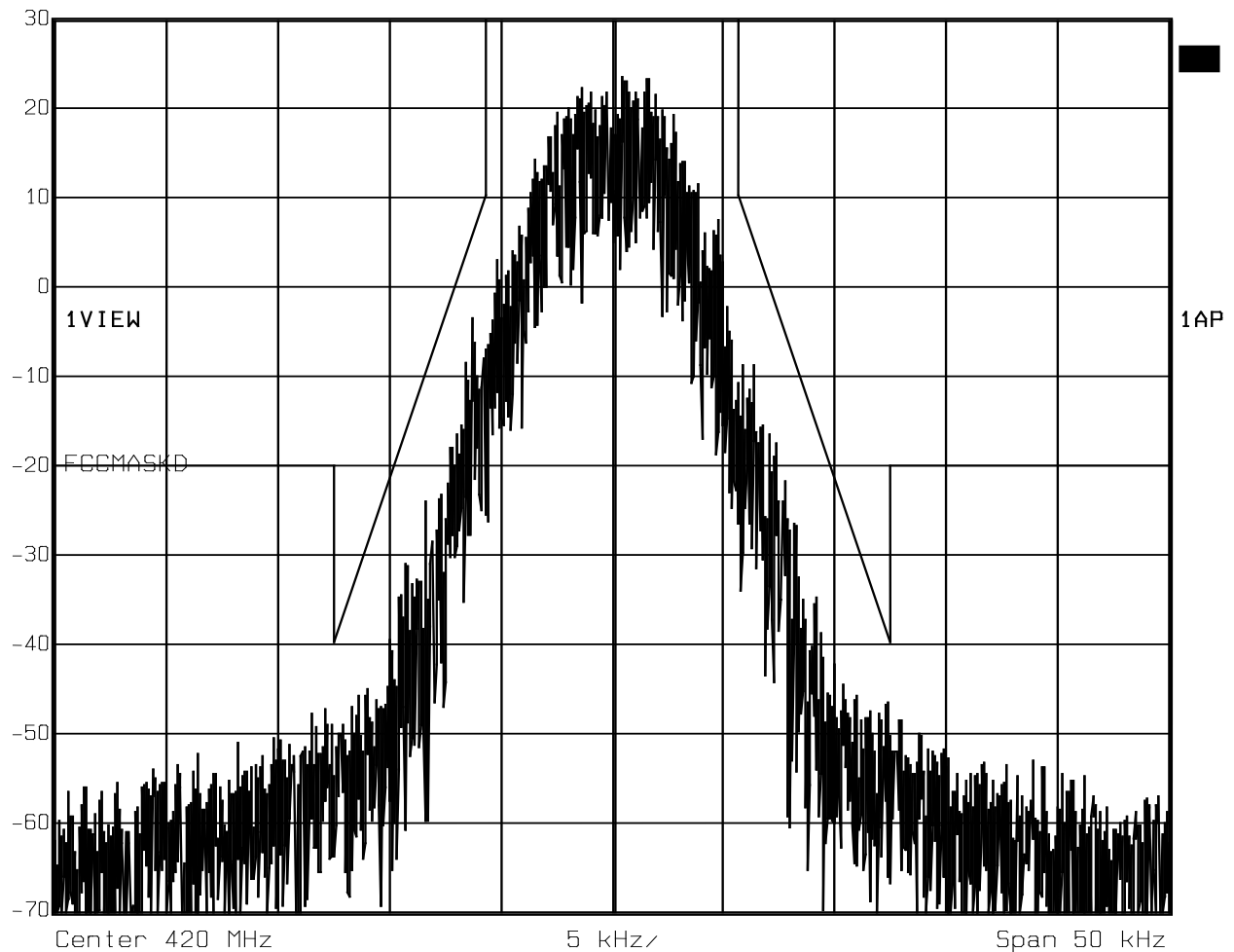
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Figure 1. Sideband spectrum at 12.5 kHz channel spacing, transmitter frequency 420.000MHz, showing compliance with the emission mask D.



Ref Lvl
30 dBm

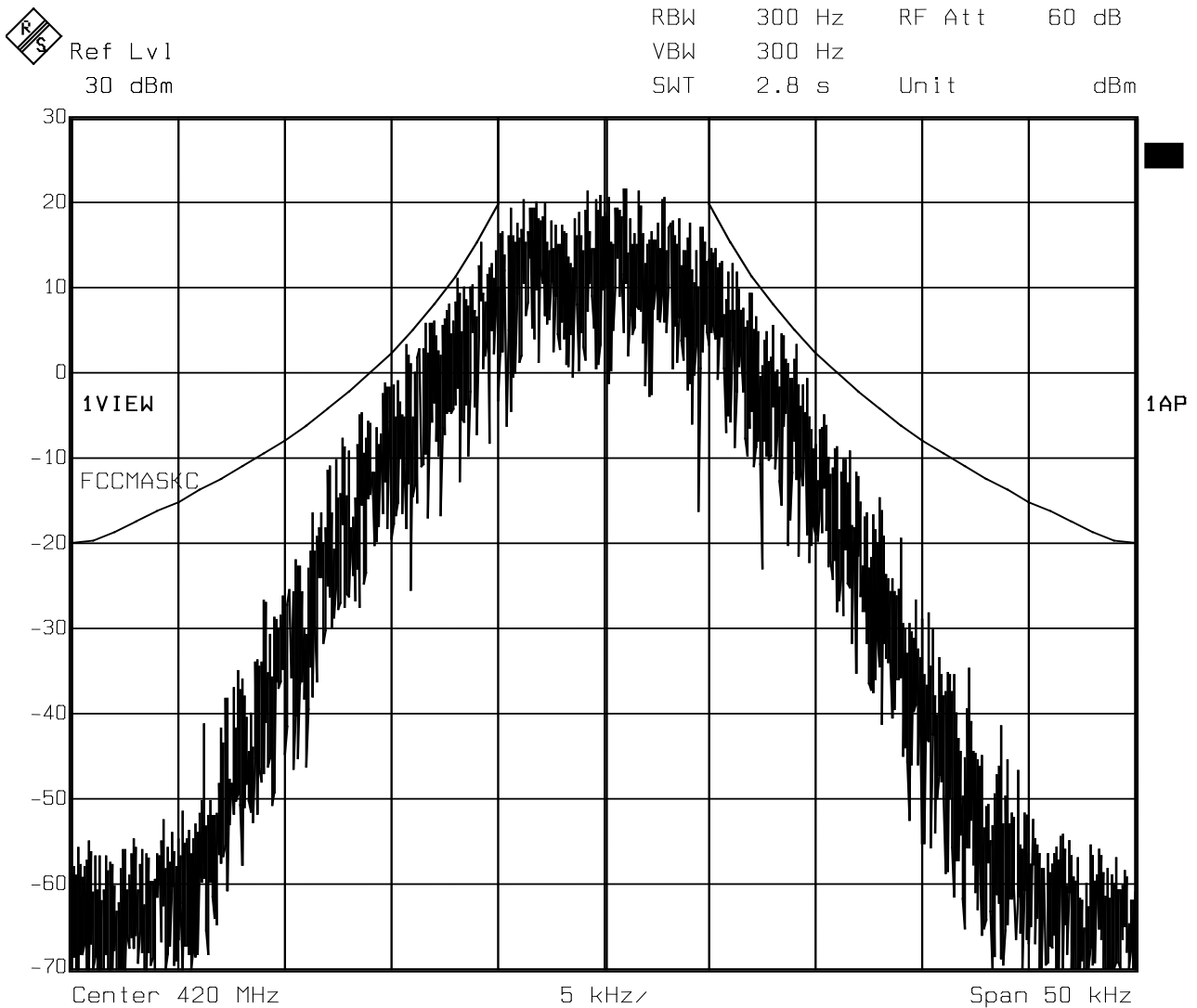
RBW 300 Hz RF Att 60 dB
VBW 300 Hz
SWT 2.8 s Unit dBm



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Figure 2. Sideband spectrum at 12.5 kHz channel spacing, transmitter frequency 460.000MHz, showing compliance with the emission mask D.

Test at 25 kHz channel spacing



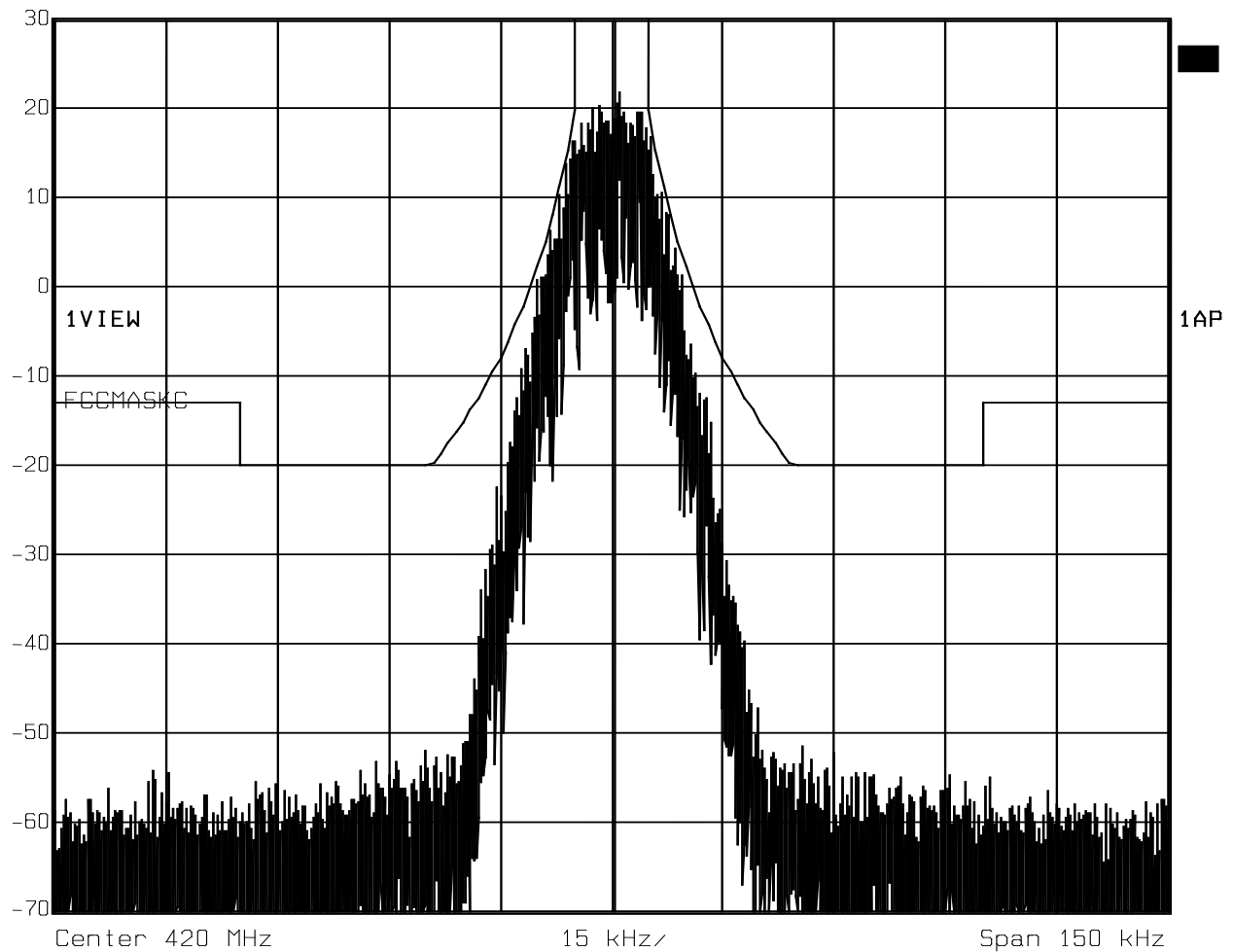
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Figure 3. Sideband spectrum at 25 kHz channel spacing, transmitter frequency 420.000MHz, showing compliance with the emission mask C, span 50kHz



Ref Lvl
30 dBm

RBW	300 Hz	RF Att	60 dB
VBW	300 Hz		
SWT	8.4 s	Unit	dBm



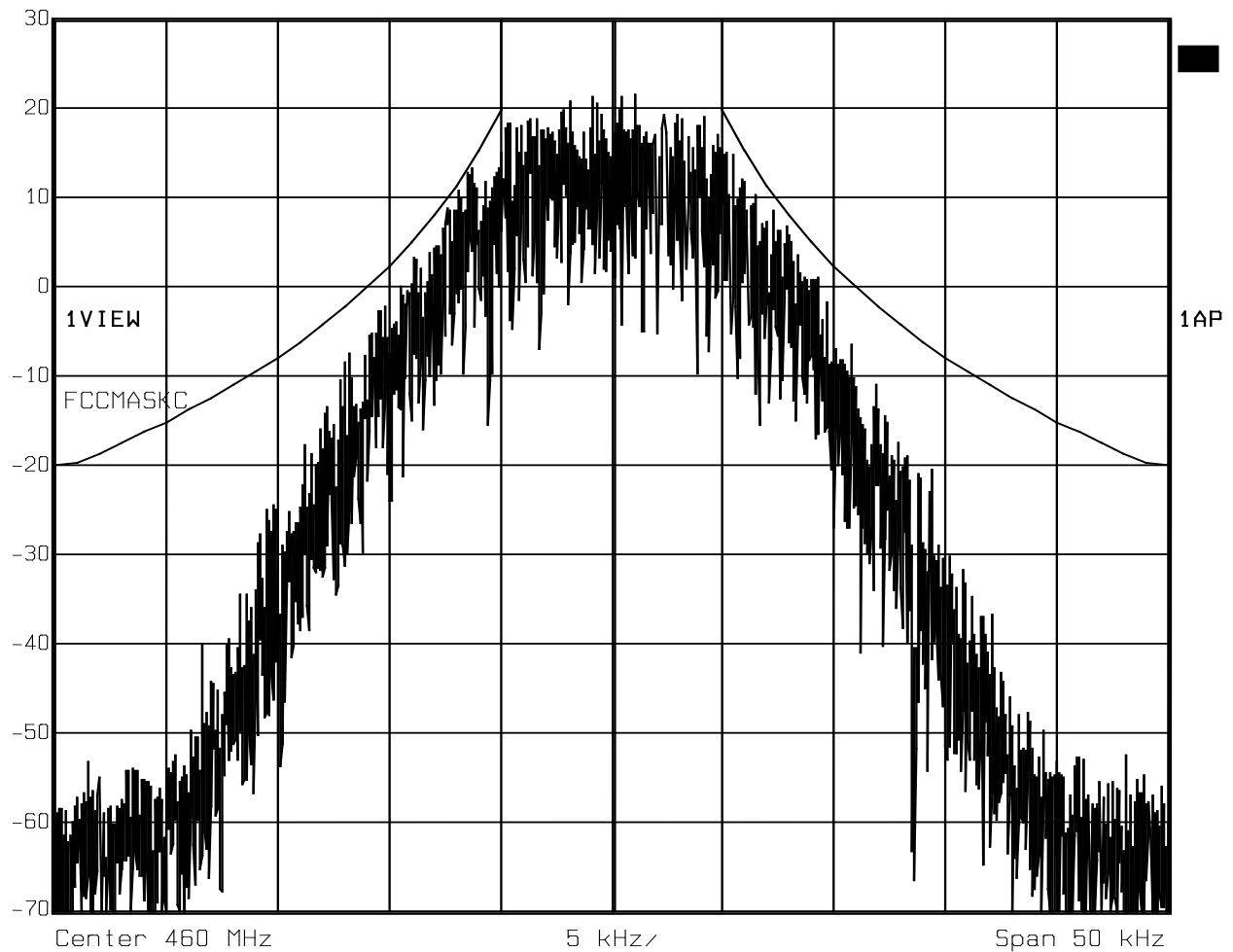
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Figure 4. Sideband spectrum at 25 kHz channel spacing, transmitter frequency 420.000MHz, showing compliance with the emission mask C, span 150kHz



Ref Lvl
30 dBm

RBW	300 Hz	RF Att	60 dB
VBW	300 Hz		
SWT	2.8 s	Unit	dBm



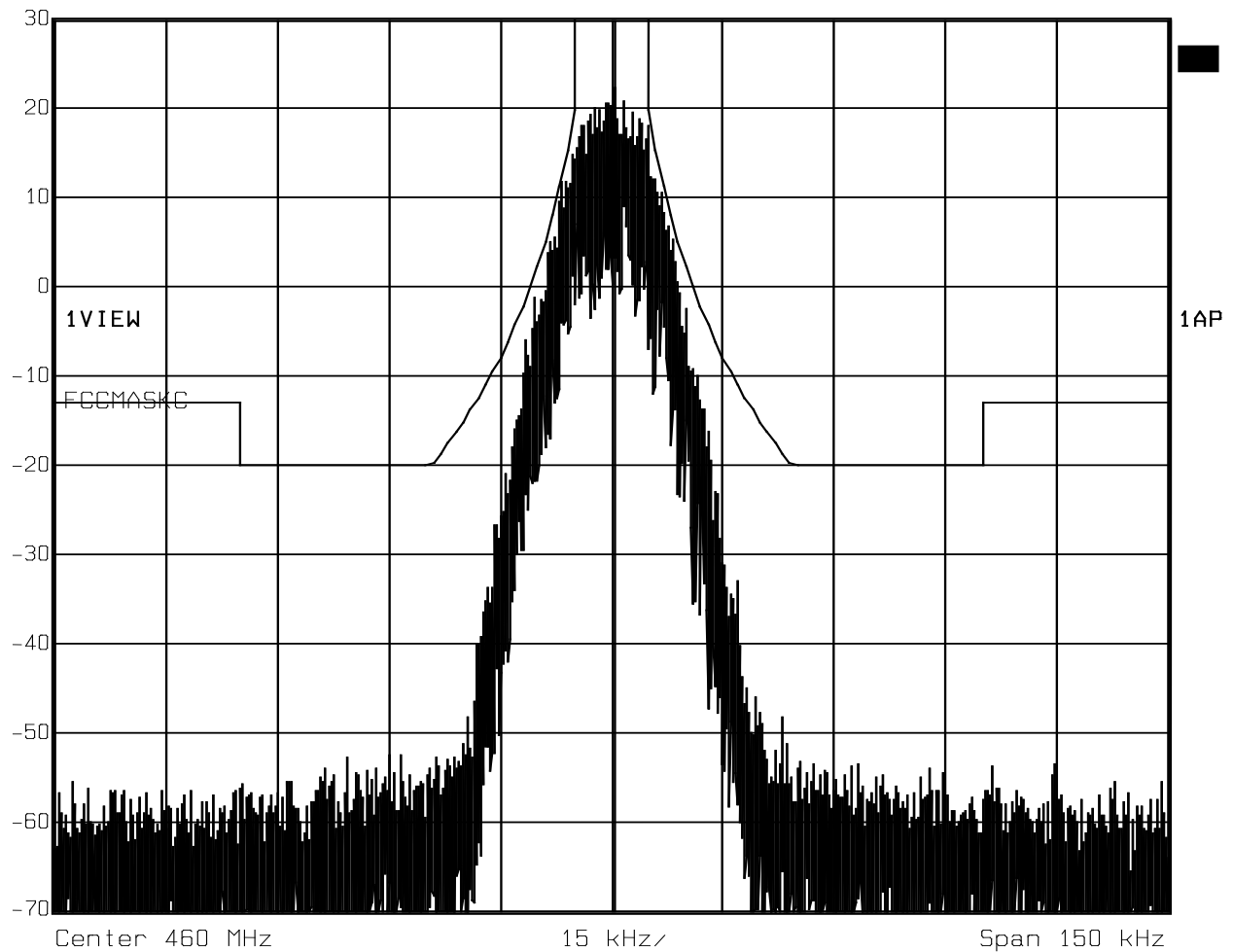
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Figure 5. Sideband spectrum at 25 kHz channel spacing, transmitter frequency 460.000MHz, showing compliance with the emission mask C, span 50kHz



Ref Lvl
30 dBm

RBW	300 Hz	RF Att	60 dB
VBW	300 Hz		
SWT	8.4 s	Unit	dBm



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Figure 6. Sideband spectrum at 25 kHz channel spacing, transmitter frequency 460.000MHz, showing compliance with the emission mask C, span 150kHz