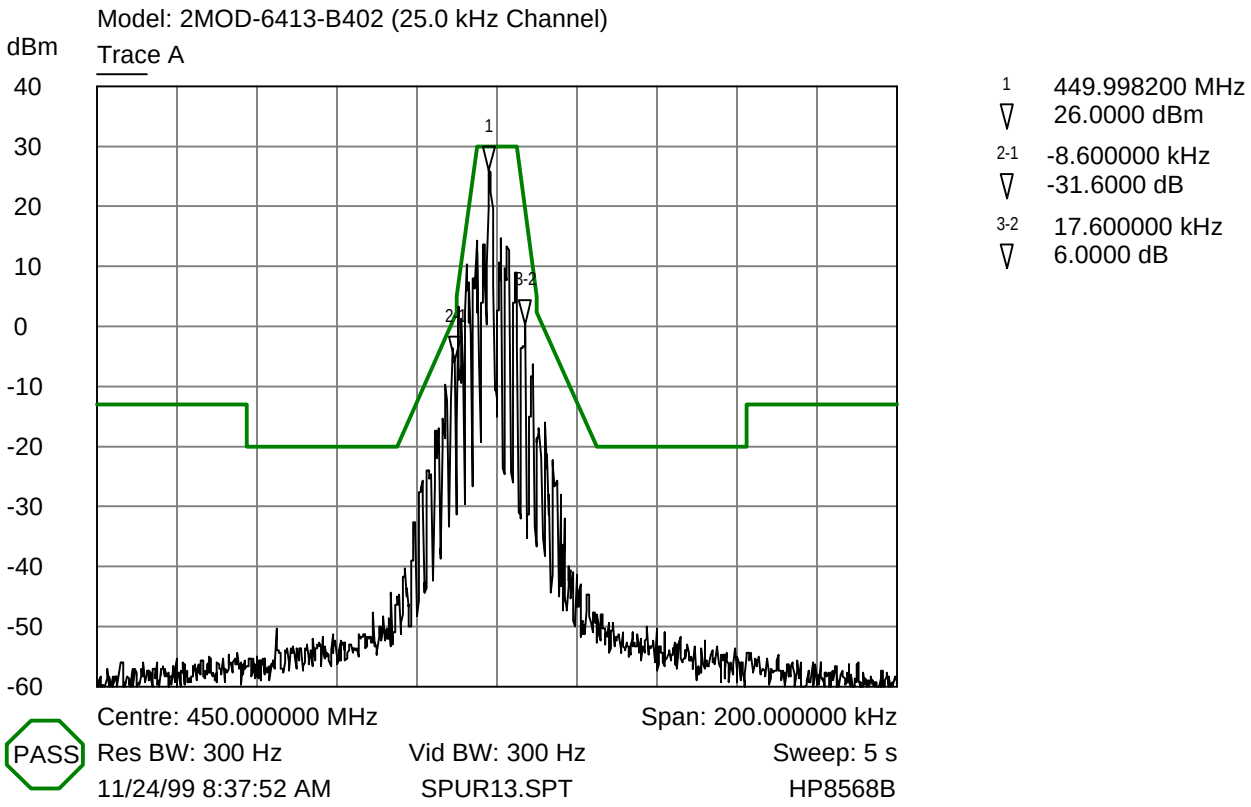
Occupied Bandwidth



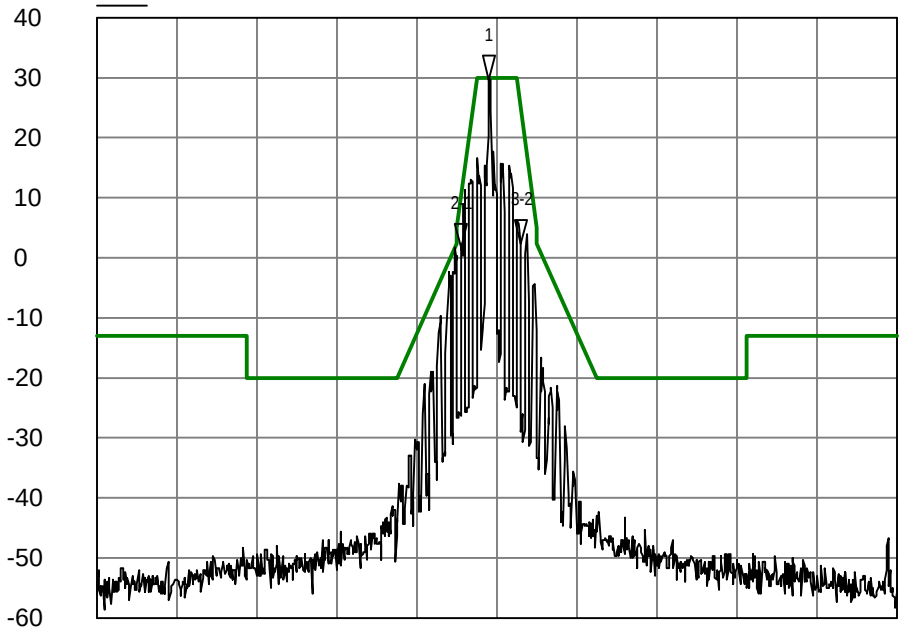
Spurious Emissions - Emission Mask C

Trace A Modulated with 7 bytes

Occupied Bandwidth 2MOD-6413-B402 (450.0 MHz)

Model: 2MOD-6413-B402 (25.0 kHz Channel)

Trace A



1 459.998200 MHz
29.5000 dBm
2-1 -7.000000 kHz
-27.9000 dB
3-2 14.600000 kHz
600.0000 mdB

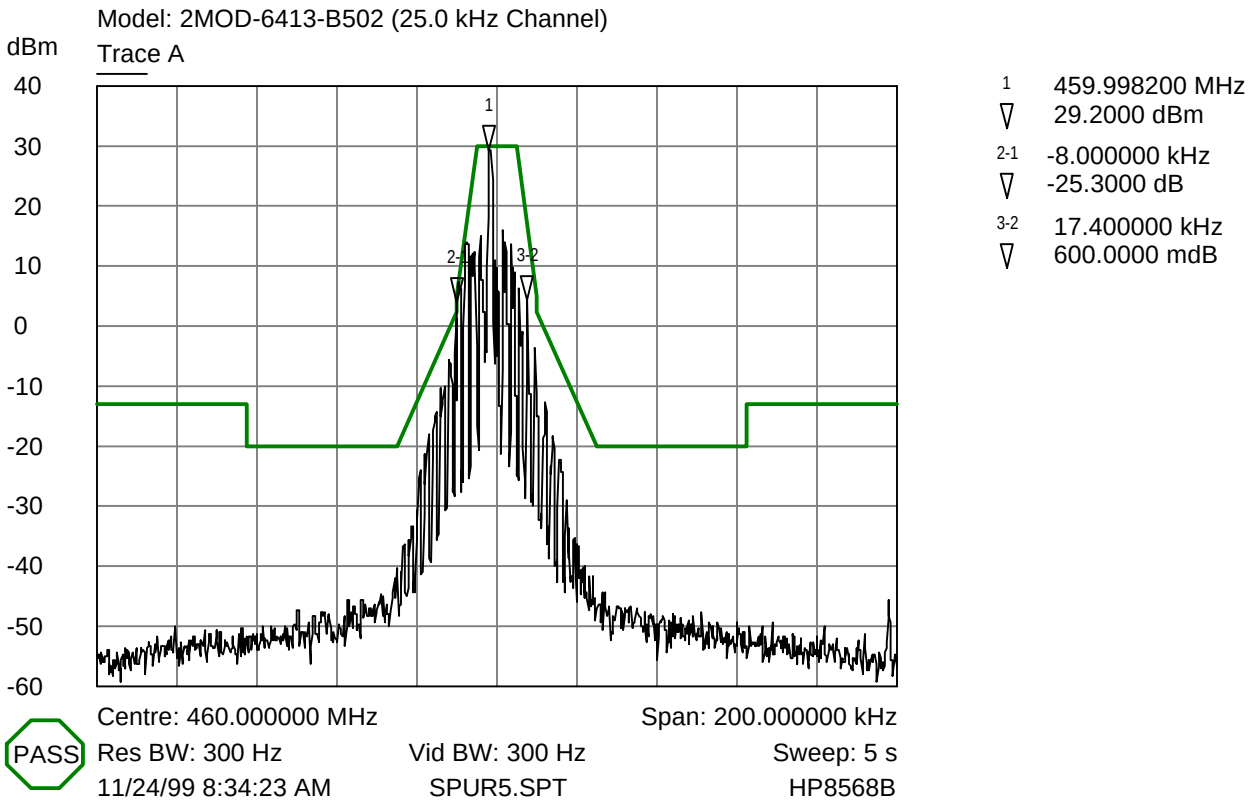
PASS

Centre: 460.000000 MHz Span: 200.000000 kHz
Res BW: 300 Hz Vid BW: 300 Hz Sweep: 5 s
11/24/99 8:39:41 AM SPUR15.SPT HP8568B

Spurious Emissions - Emission Mask C

Trace A Modulated with 7 bytes

Occupied Bandwidth 2MOD-6413-B402 (460.0 MHz)



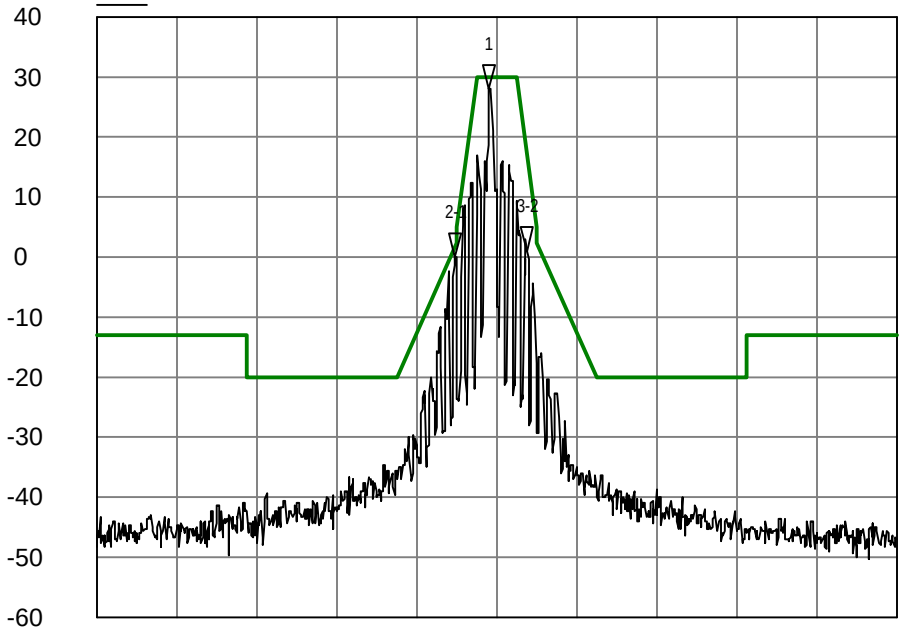
Spurious Emissions - Emission Mask C

Trace A Modulated with 8 bytes

Occupied Bandwidth 2MOD-6413-B502 (460.0 MHz)

Model: 2MOD-6413-B502 (25.0 kHz Channel)

Trace A



1 469.998200 MHz
28.0000 dBm
2-1 -8.600000 kHz
-28.0000 dB
3-2 18.000000 kHz
1.0000 dB

PASS

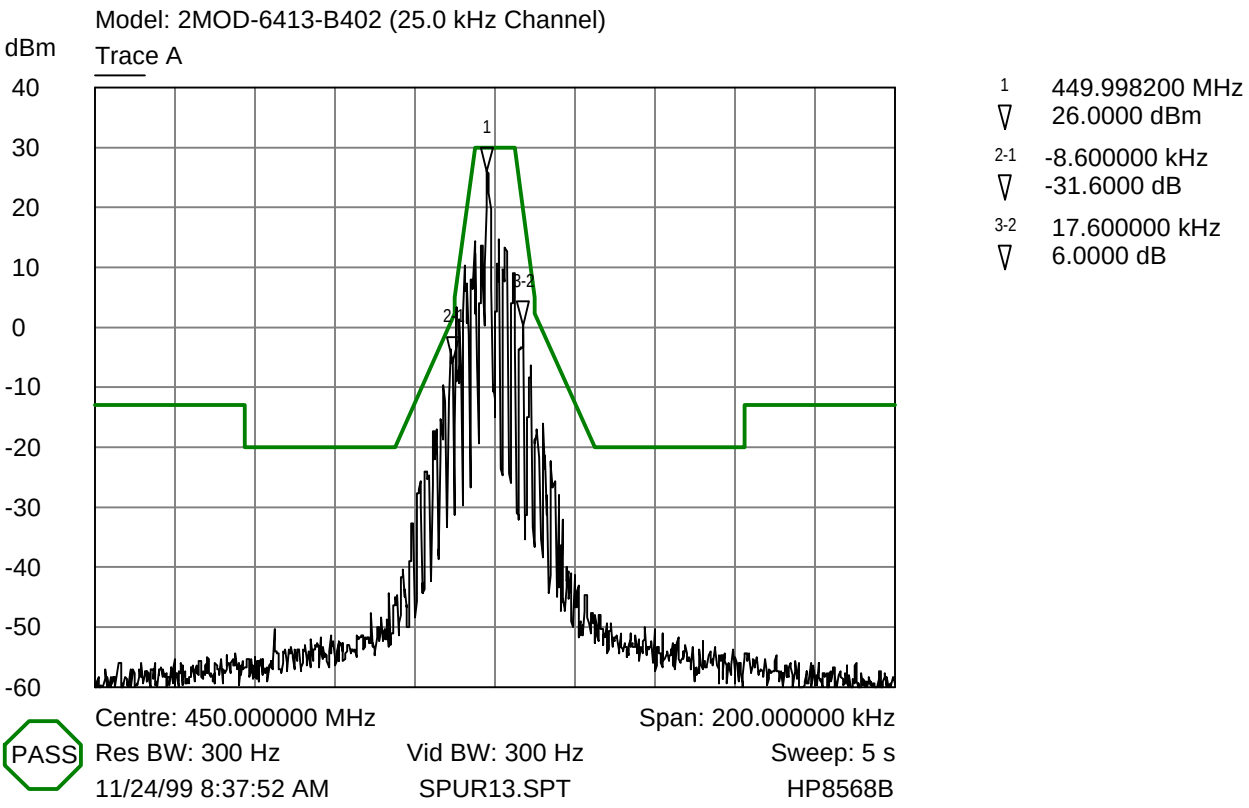
Centre: 470.000000 MHz Span: 200.000000 kHz
Res BW: 300 Hz Vid BW: 300 Hz Sweep: 5 s
11/24/99 8:31:26 AM SPUR7.SPT HP8568B

Spurious Emissions - Emission Mask C

Trace A Modulated with 8 bytes

Occupied Bandwidth 2MOD-6413-B502 (470.0 MHz)

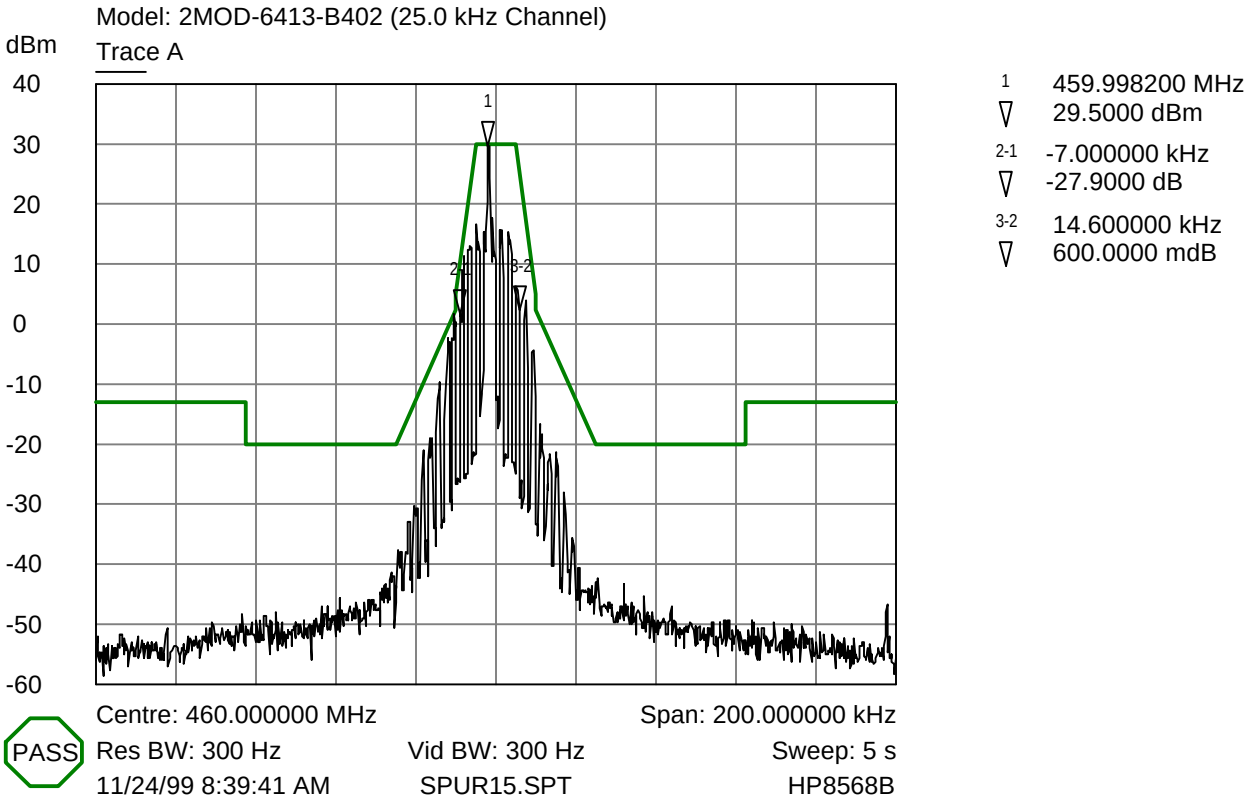
Conducted Spurious Emissions



Spurious Emissions - Emission Mask C

Trace A Modulated with 7 bytes

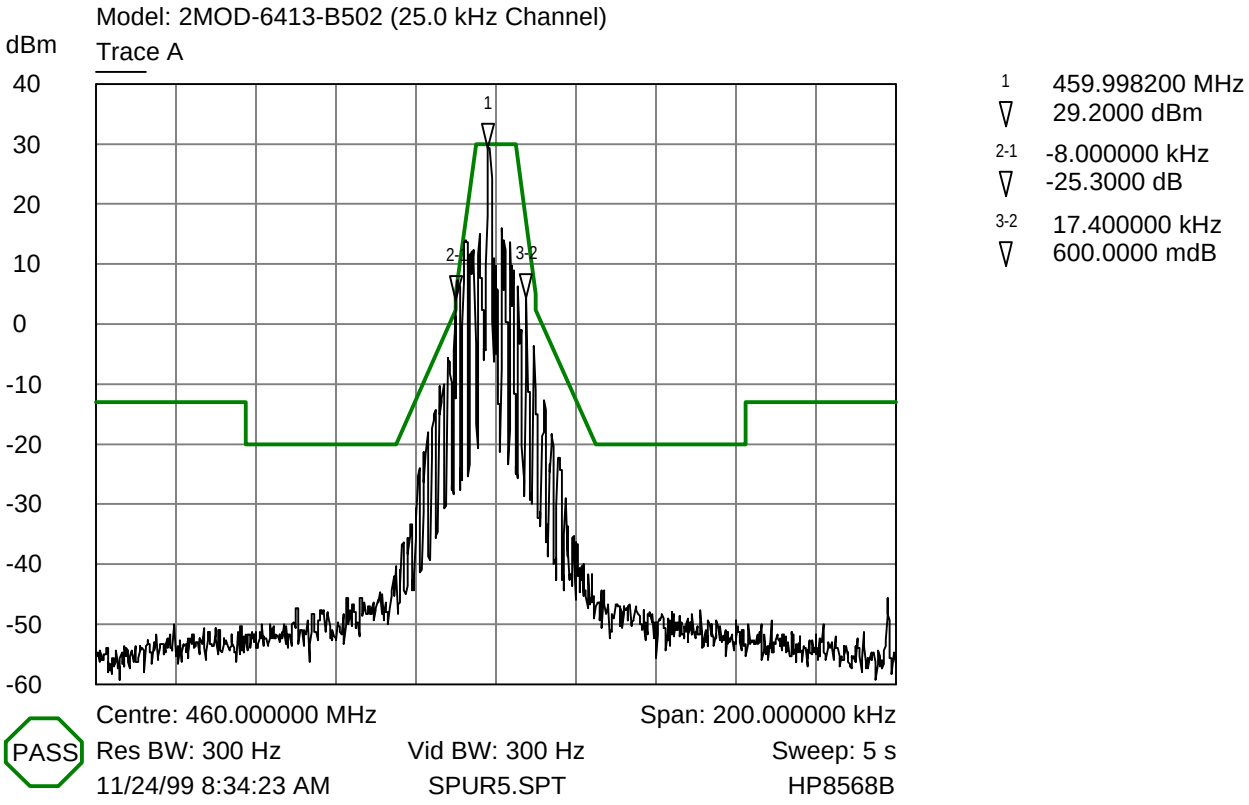
Conducted Spurious Emissions – 2MOD-6413-B402 (450 MHz 0 to 50 kHz)



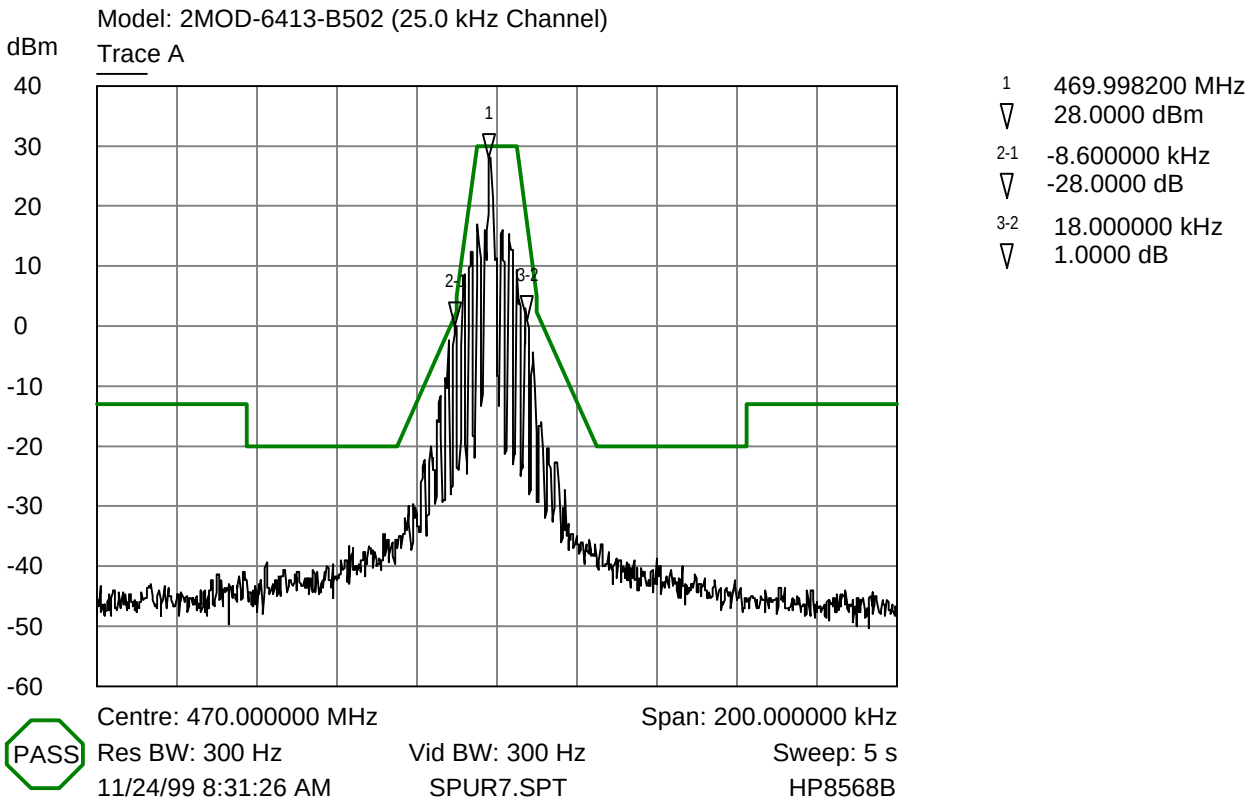
Spurious Emissions - Emission Mask C

Trace A Modulated with 7 bytes

Conducted Spurious Emissions – 2MOD-6413-B402
(460 MHz 0 to 50 kHz)



Conducted Spurious Emissions – 2MOD-6413-B502
(460 MHz 0 to 50 kHz)



Spurious Emissions - Emission Mask C

Trace A Modulated with 8 bytes

Conducted Spurious Emissions – 2MOD-6413-B502
(470 MHz 0 to 50 kHz)

Radiated Spurious Emissions (Substitution Method)

2MOD-6413-B402					
Transmitting at 450.0 MHz					
Antenna Polarity	Frequency (MHz)	Uncorrected Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Spurious Attenuation (dB)
V	1800.0	-78.5	4.6	6.8	-47.2
H	900.0	-76.6	2.3	1.9	-47.9
H	1800.0	-78.1	4.6	6.8	-46.8

Note: Below 1 GHz the reference antenna was a Dipole antenna and above 1 GHz reference antenna was a Double Ridge Guide Antenna.

Spurious attenuation (dB)=

$10 \log_{10} \{\frac{\text{TX power in watts}}{0.001}\}$ – Calculated power (dBm)

$10 \log_{10} \{\frac{0.813}{0.001}\} = 29.1$

Calculated power (dBm) =
Uncorrected Level – Cable Loss + Antenna Gain

2MOD-6413-B402					
Transmitting at 460.0 MHz					
Antenna Polarity	Frequency (MHz)	Uncorrected Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Spurious Attenuation (dB)
V	1840.0	-78.7	4.7	6.8	-47.5
V	2300.0	-76.3	5.2	6.8	-45.6
H	920.0	-77.2	2.3	1.9	-48.5
H	1840.0	-76.1	4.7	6.8	-44.9
H	2300.0	-78.8	5.2	6.8	-48.1

Note: Below 1 GHz the reference antenna was a Dipole antenna and above 1 GHz reference antenna was a Double Ridge Guide Antenna.

Spurious attenuation (dB)=

$10 \log_{10} \{\frac{\text{TX power in watts}}{0.001}\}$ – Calculated power (dBm)

$10 \log_{10} \{\frac{0.813}{0.001}\} = 29.1$

Calculated power (dBm) =
Uncorrected Level – Cable Loss + Antenna Gain

2MOD-6413-B411					
Transmitting at 450.0 MHz					
Antenna Polarity	Frequency (MHz)	Uncorrected Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Spurious Attenuation (dB)
V	1800.0	-77.2	4.6	6.8	-45.8
H	900.0	-76.4	2.3	1.9	-47.6
H	1800.0	-80.2	4.6	6.8	-48.8

Note: Below 1 GHz the reference antenna was a Dipole antenna and above 1 GHz reference antenna was a Double Ridge Guide Antenna.

Spurious attenuation (dB)=

$10 \log_{10} \{\frac{\text{TX power in watts}}{0.001}\}$ – Calculated power (dBm)

$10 \log_{10} \{\frac{0.832}{0.001}\} = 29.2$

Calculated power (dBm) =
Uncorrected Level – Cable Loss + Antenna Gain

2MOD-6413-B411					
Transmitting at 460.0 MHz					
Antenna Polarity	Frequency (MHz)	Uncorrected Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Spurious Attenuation (dB)
V	1840.0	-76.4	4.7	6.8	-45.1
V	2300.0	-77.3	5.2	6.8	-46.5
H	1840.0	-76.6	4.7	6.8	-45.3
H	2300.0	-78.6	5.2	6.8	-47.8

Note: Below 1 GHz the reference antenna was a Dipole antenna and above 1 GHz reference antenna was a Double Ridge Guide Antenna.

Spurious attenuation (dB)=

$$10 \log_{10} \left\{\frac{\text{TX power in watts}}{0.001}\right\} - \text{Calculated power (dBm)}$$

$$10 \log_{10} \left\{\frac{0.832}{0.001}\right\} = 29.2$$

Calculated power (dBm) =
Uncorrected Level – Cable Loss + Antenna Gain

2MOD-6413-B502					
Transmitting at 460.0 MHz					
Antenna Polarity	Frequency (MHz)	Uncorrected Level (dBm)	Cable Loss (dB)	Antenna Gain (dB)	Spurious Attenuation (dB)
V	1840.0	-78.7	4.7	6.8	-47.8

Note: Below 1 GHz the reference antenna was a Dipole antenna and above 1 GHz reference antenna was a Double Ridge Guide Antenna.

Spurious attenuation (dB)=

$$10 \log_{10} \left\{\frac{\text{TX power in watts}}{0.001}\right\} - \text{Calculated power (dBm)}$$

$$10 \log_{10} \left\{\frac{0.759}{0.001}\right\} = 28.8$$

Calculated power (dBm) =
Uncorrected Level – Cable Loss + Antenna Gain