

SUBMITTED MEASURED DATA -- INDEX**EXHIBIT DESCRIPTION**

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RF POWER OUTPUT DATA

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

Measured RF output	<u>100</u>	Watts
Normal DC Voltage	<u>28.4</u>	Volts
Normal DC Current	<u>11.0</u>	Amperes
Input power for final RF amplifying device(s)	<u>312</u>	Watts
Primary Supply Voltage	<u>120</u>	Volts AC
Minimum Measured RF output	<u>25</u>	Watts
Normal DC Voltage	<u>28.4</u>	Volts
Normal DC Current	<u>5.8</u>	Amperes
Input power for final RF amplifying device(s)	<u>165</u>	Watts
Primary Supply Voltage	<u>120</u>	Volts AC

CONDUCTED SPURIOUS EMISSIONS**SPECIFICATION REQUIREMENT:****§90.210(d) Emission Mask Requirements for 12.5 kHz Channel Bandwidth Equipment, Emission Mask D:**

[Note: This transmitter was originally type accepted to operate with 25 kHz channels as well as with 12.5 kHz channels. All 25 kHz emissions were required to adhere to the B-mask which is, of course, less stringent than the D-mask outside of the authorized bandwidth. Therefore only the D-mask requirement is referred to or listed in this change package].

For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz:
 At least $50 + 10 \log (P)$ dB or 70 dB
 (whichever is the lesser attenuation).

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide to capture the true peak emission of the equipment under test. A sufficient number of sweeps must be measured to ensure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, a resolution of at least 10 kHz must be used for frequencies below 1000 MHz. Above 1000 MHz the resolution bandwidth of the instrumentation must be at least 1 MHz. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, then an alternate procedure may be used provided prior Commission approval is obtained.

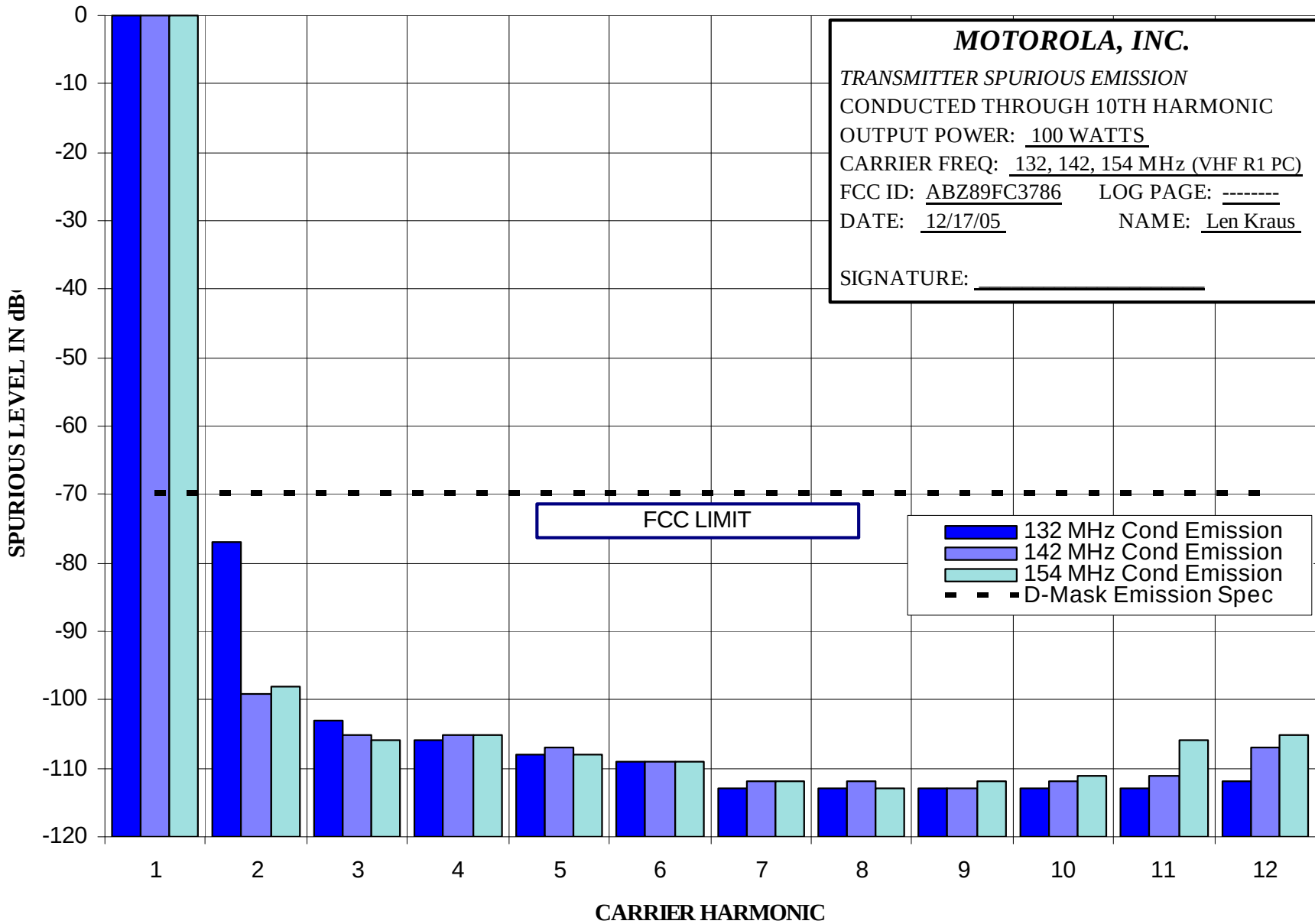
Modulation: 2500 Hz tone at +16 dB over the level required for 50% deviation.

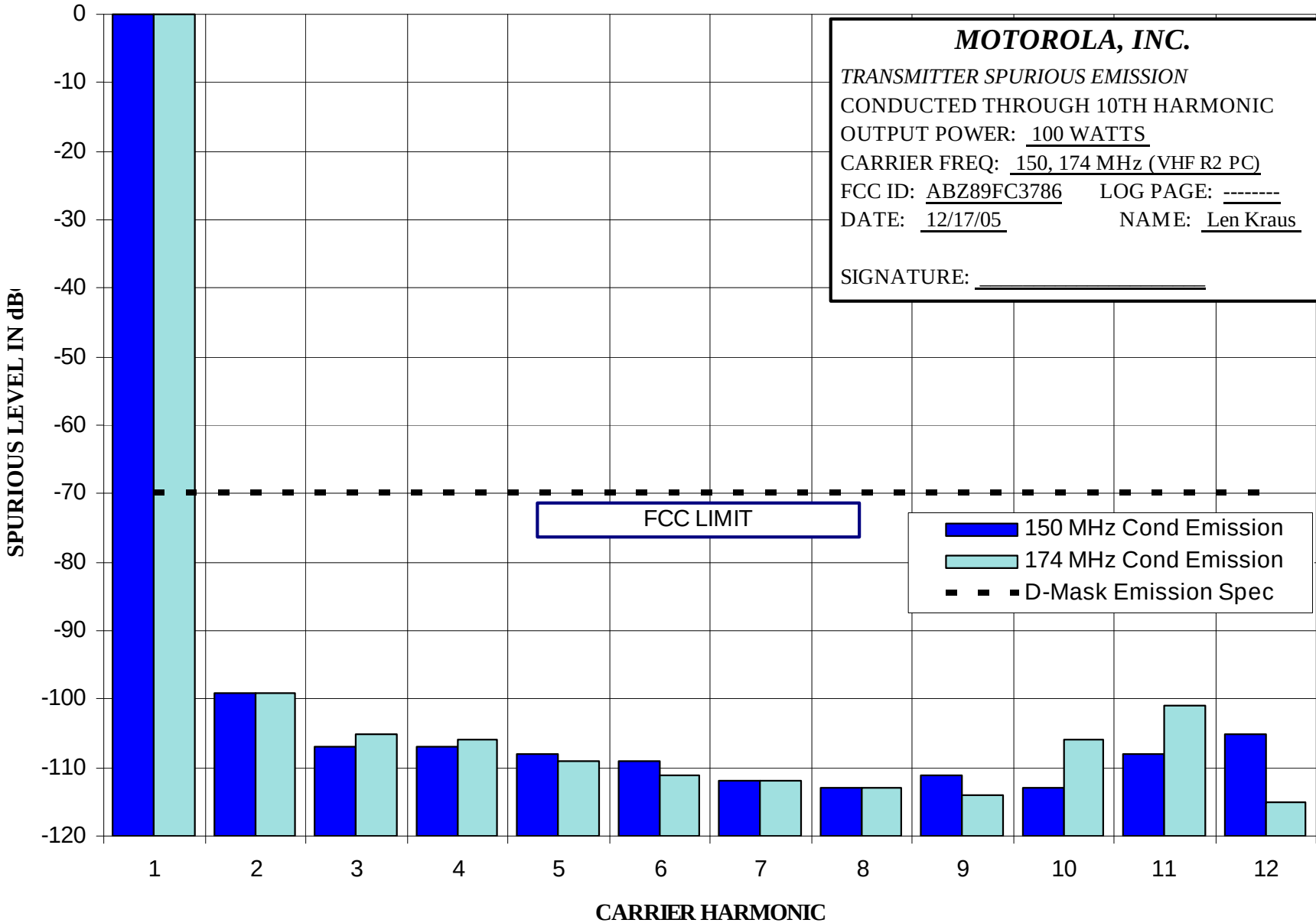
Carrier Frequency: For the range 1 operating sub-band, carrier frequencies at 132, 142, and 154 MHz were measured. These frequencies represent the low end, middle, and high end of the 132 – 154 MHz range 1 sub-band.

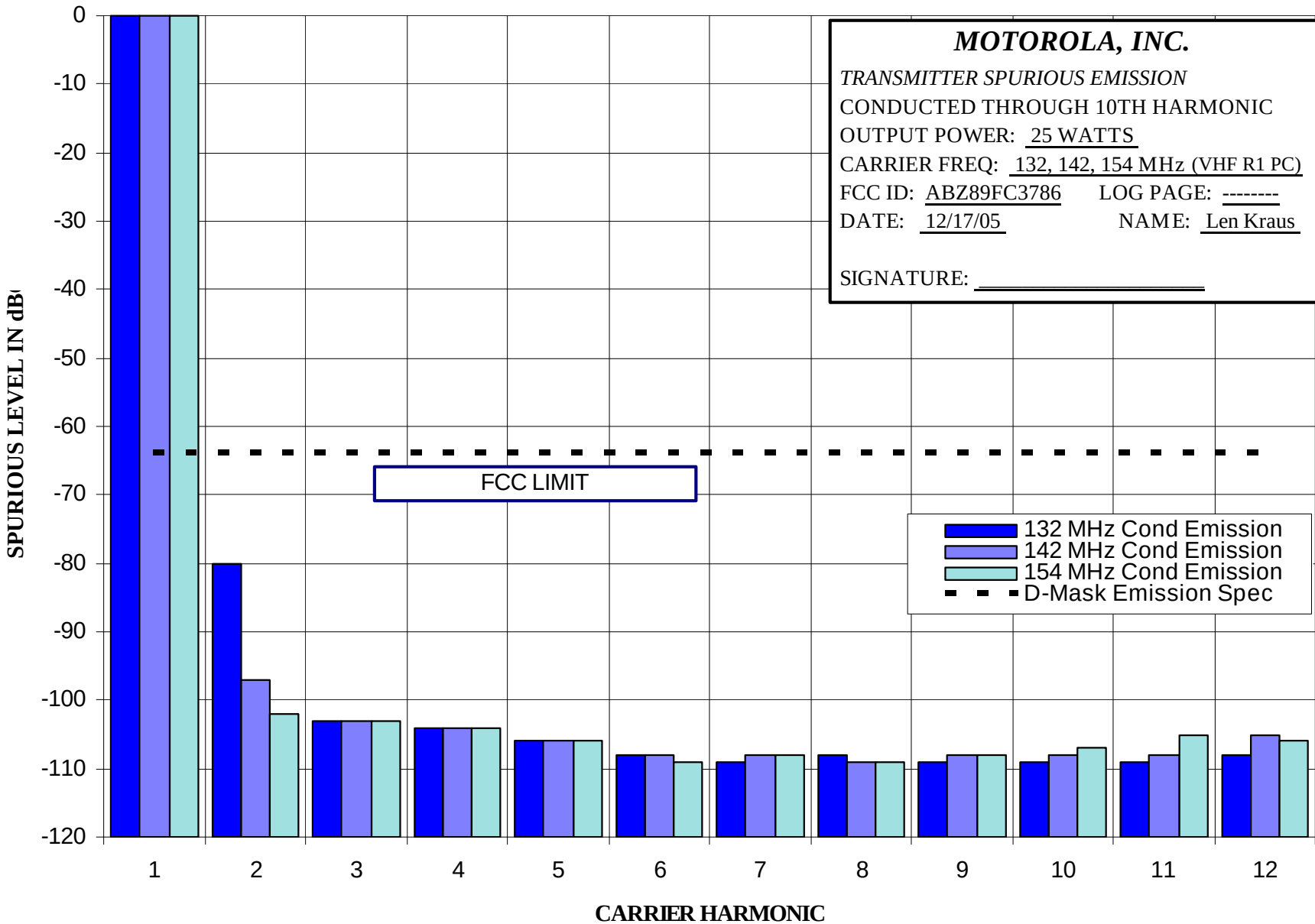
For the range 2 operating sub-band, carrier frequencies at 150 and 174 MHz were measured. These frequencies represent the low end and the high end of the 150 – 174 MHz range 2 sub-band.

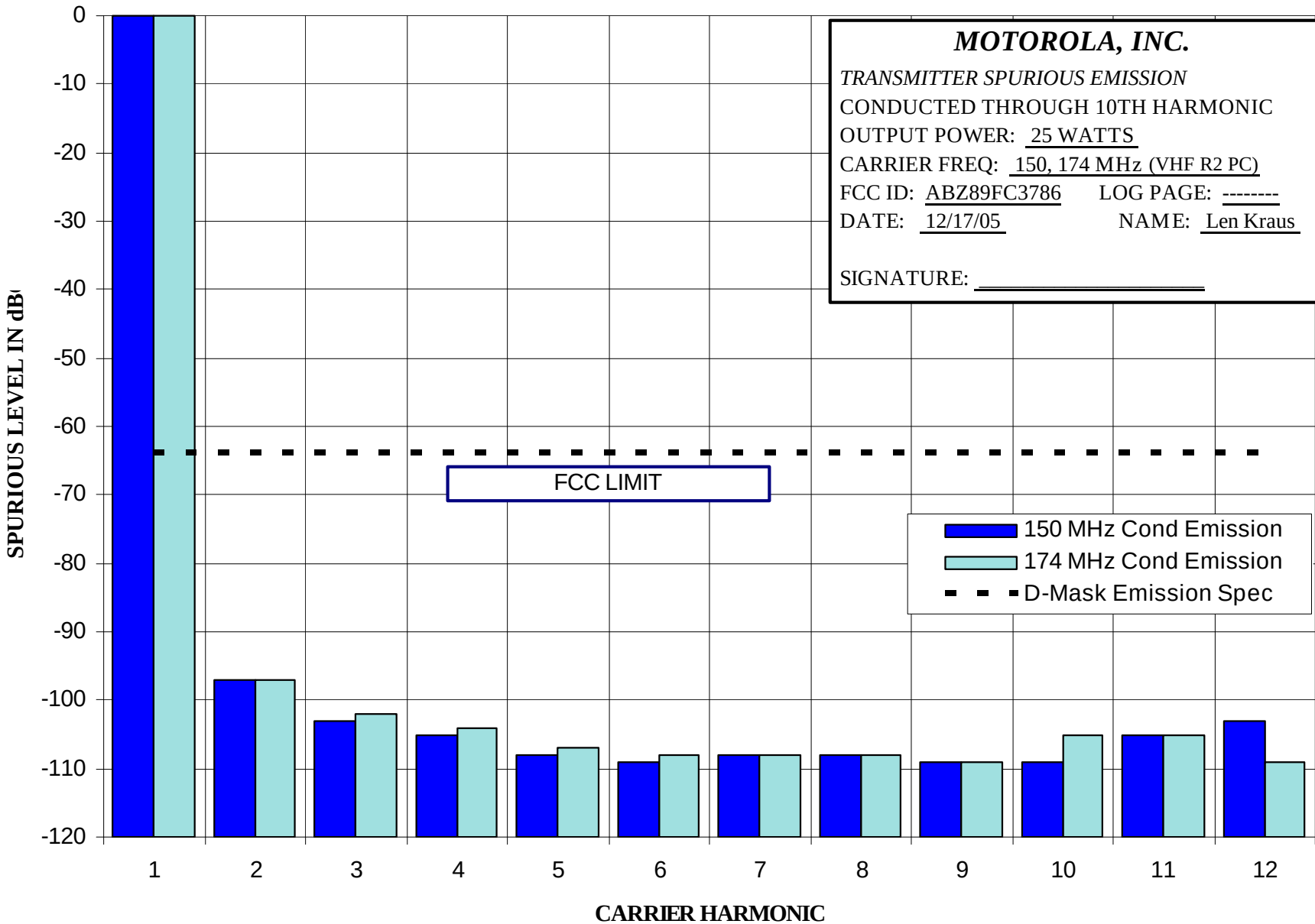
SPURIOUS EMISSION PLOTS:**EXHIBIT DESCRIPTION**

11G-1	Conducted Spurious Emissions, Harmonics, Range 1, Power Output at 100 Watts
11G-2	Conducted Spurious Emissions, Harmonics, Range 2, Power Output at 100 Watts The specification limit is -70.0 dBc
11G-4	Conducted Spurious Emissions, Harmonics, Range 1, Power Output at 25 Watts
11G-5	Conducted Spurious Emissions, Harmonics, Range 2, Power Output at 25 Watts The specification limit is -64.0 dBc









RADIATED SPURIOUS EMISSIONS**SPECIFICATION REQUIREMENT:****§90.210(d) Emission Mask Requirements for 12.5 kHz Channel Bandwidth Equipment, Emission Mask D:**

[Note: This transmitter was originally type accepted to operate with 25 kHz channels as well as with 12.5 kHz channels. All 25 kHz emissions were required to adhere to the B-mask which is, of course, less stringent than the D-mask outside of the authorized bandwidth. Therefore only the D-mask requirement is referred to or listed in this change package].

For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz:
At least $50 + 10 \log (P)$ dB or 70 dB
(whichever is the lesser attenuation).

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide to capture the true peak emission of the equipment under test. A sufficient number of sweeps must be measured to ensure that the emission profile is developed. If video filtering is used, its bandwidth must not be less than the instrument resolution bandwidth. For emissions beyond 50 kHz from the edge of the authorized bandwidth, a resolution of at least 10 kHz must be used for frequencies below 1000 MHz. Above 1000 MHz the resolution bandwidth of the instrumentation must be at least 1 MHz. If it can be shown that use of the above instrumentation settings do not accurately represent the true interference potential of the equipment under test, then an alternate procedure may be used provided prior Commission approval is obtained.

Modulation: 2500 Hz tone at +16 dB over the level required for 50% deviation.

Carrier Frequency: A carrier at 150.0125 MHz was measured. This frequency is near the center of the operating band 132 – 174 MHz.

SPURIOUS EMISSION PLOTS:**EXHIBIT DESCRIPTION**

11H-1	Radiated Spurious Emissions, Harmonics, Power Output at 100 Watts The specification limit is –70.0 dBc
11H-2	Radiated Spurious Emissions, Harmonics, Power Output at 25 Watts The specification limit is –64.0 dBc

