

**REPLY TO CORRESPONDENCE REFERENCE NUMBER: 23057**FCC ID: **ABZ99FT5000**Form 731 Confirmation Number: **EA543727**

HT1250•LS+ 700 MHz Portable Radio

June 11, 2002

Motorola Inc. herein submits its response to the June 5, 2002 request for information in Correspondence Number 23057.

**Q1.)** Section 27.53 ( c ) 1 and 2. Please provide spectral plots around the band edge demonstrating compliance with band edge requirements with device tuned to the extremes in each band. Plots of approximately 250 KHz and 1 MHz spans is sufficient.

**R1.)** The requested data is supplied at the extreme band edge frequencies of 747 and 762 MHz per Rules Part 27.539(c)(1), and at 777 and 792 MHz per Rules Part 27.539(c)(2). The limit of  $43 + 10 \log (P)$  dB, or  $-47.8$  dB for  $P = 3.0$  watts, is indicated on each plot.

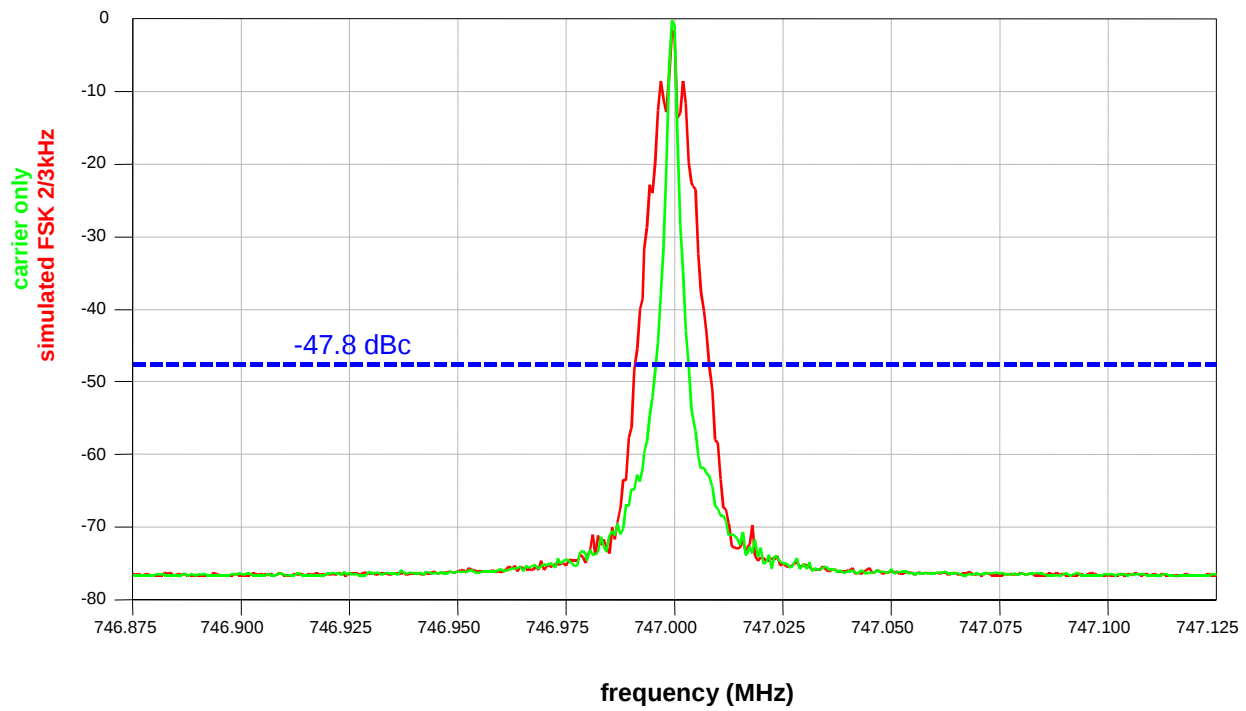
The type of modulation used was that which produced the worst case modulation spectrum in the previously supplied data (Exhibit Addendum A, page 14 of 44). This modulation is the simulated AFSK modulation of two tones, 2000 and 3000 Hz, alternating at a rate of 1200 Hz, adjusted for full system deviation, as described in Exhibit 7, sheet 4 of 7. Conducted transmitter power was 3.0 watts, and the 0 dB reference was first adjusted using an unmodulated signal. The spectrum analyzer settings were adjusted for best resolution as follows:

*For Frequency Span of 250 kHz:*

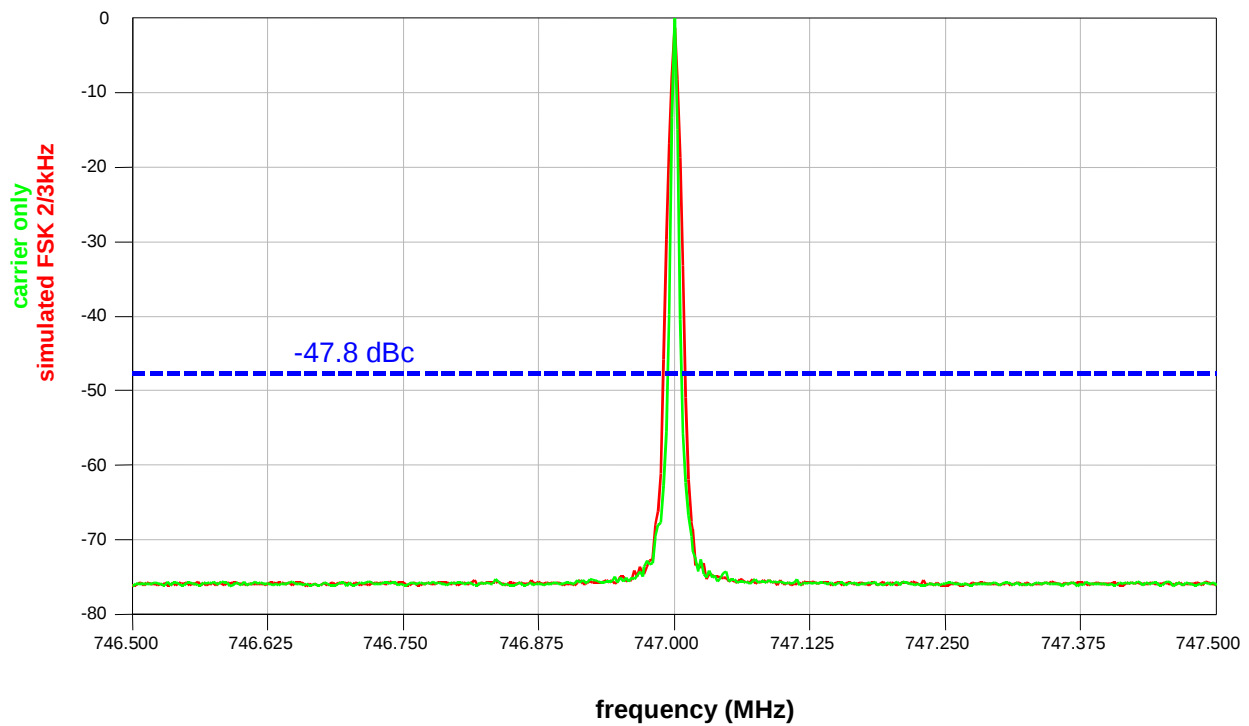
Resolution Bandwidth: 300 Hz  
Video Bandwidth: 300 kHz  
Sweep Time: 8.33 seconds  
Vertical Scale: 10 dB/div  
Reference Level: 0 dB = 3.0 Watts  
Spectrum Analyzer Attenuation: 30 dB  
External Attenuation: 20 dB

*For Frequency Span of 1 MHz:*

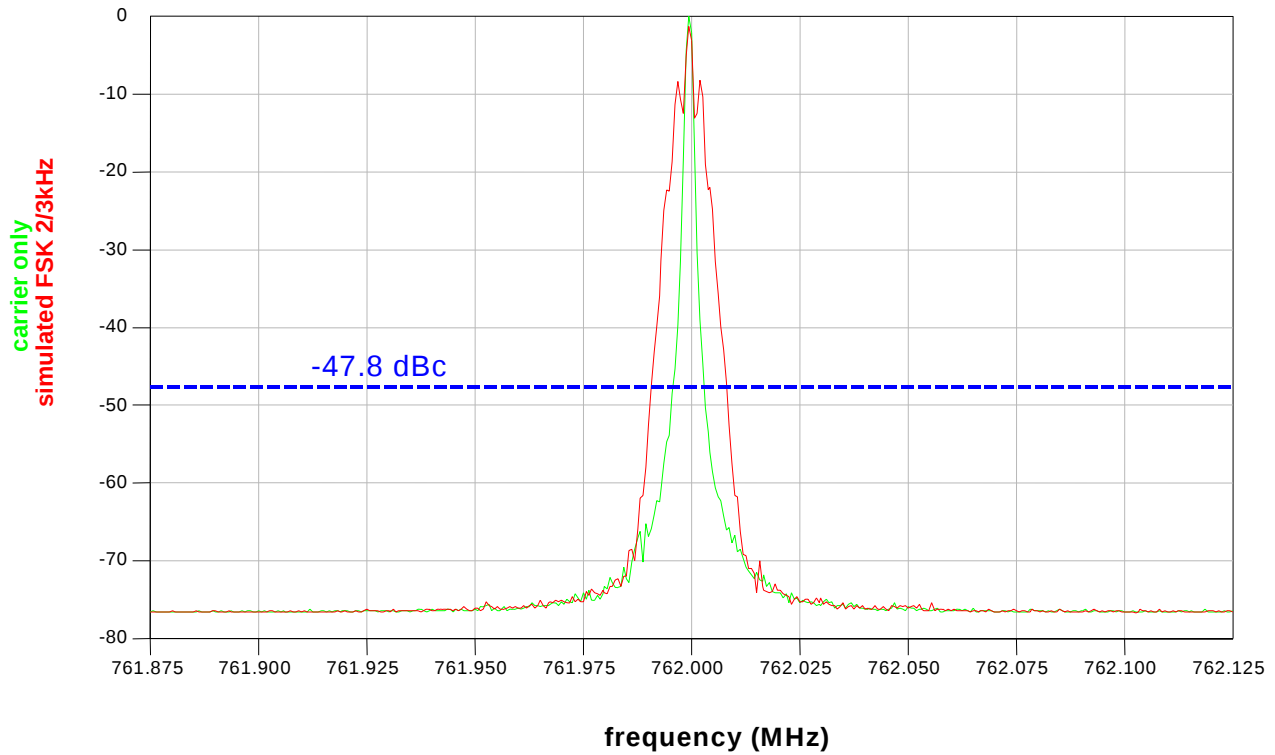
Resolution Bandwidth: 1 kHz  
Video Bandwidth: 1 MHz  
Sweep Time: 3 seconds  
Vertical Scale: 10 dB/div  
Reference Level: 0 dB = 3.0 Watts  
Spectrum Analyzer Attenuation: 30 dB  
External Attenuation: 20 dB



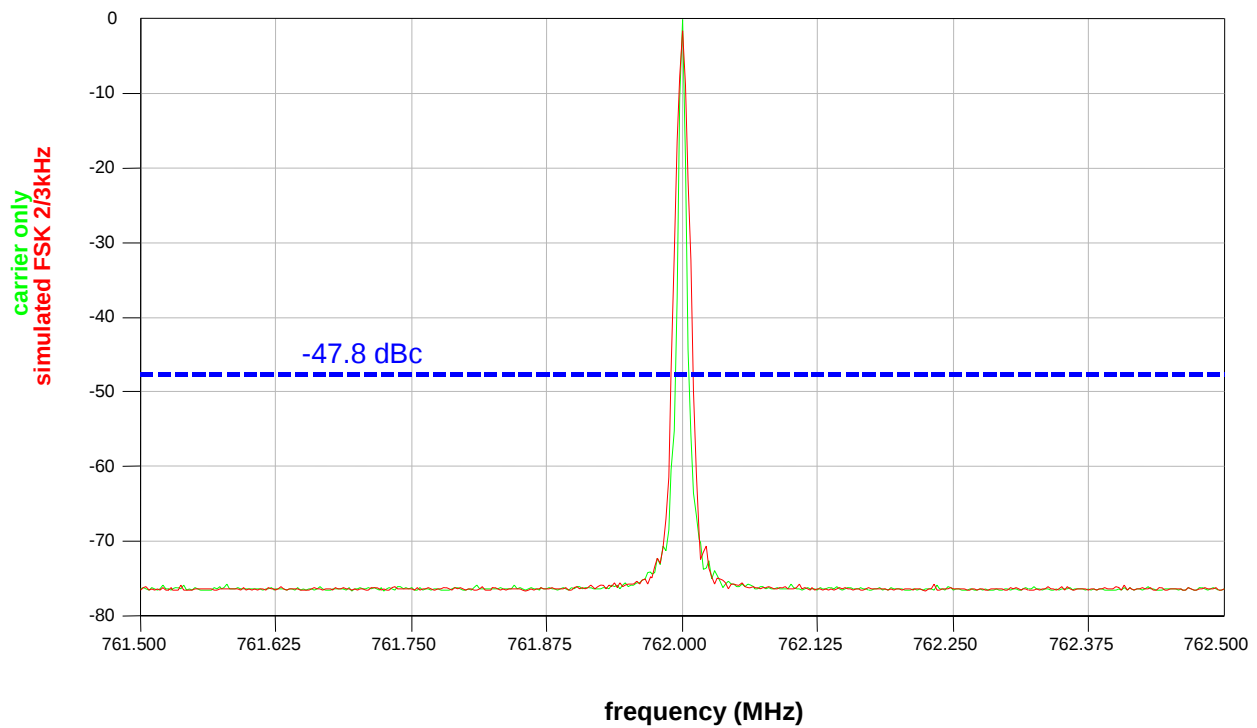
Plot 1 – Bandedge Frequency 747 MHz, Span 250 kHz



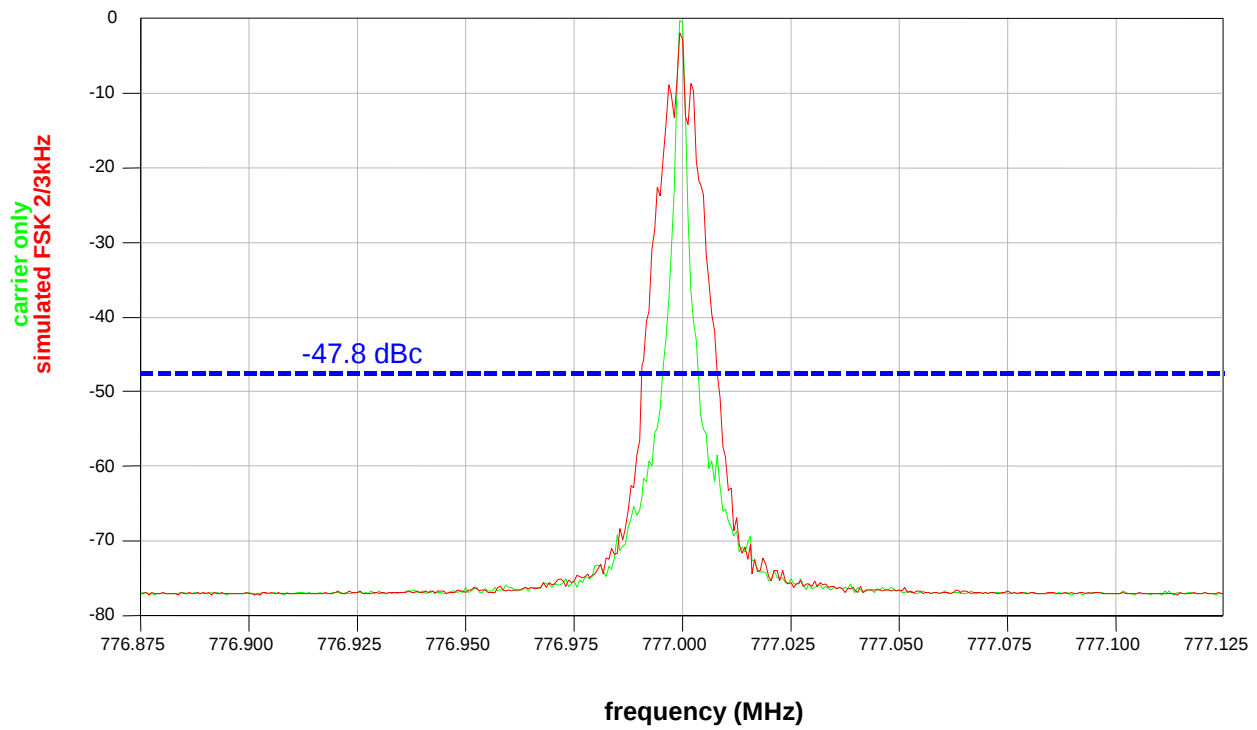
Plot 2 – Bandedge Frequency 747 MHz, Span 1 MHz



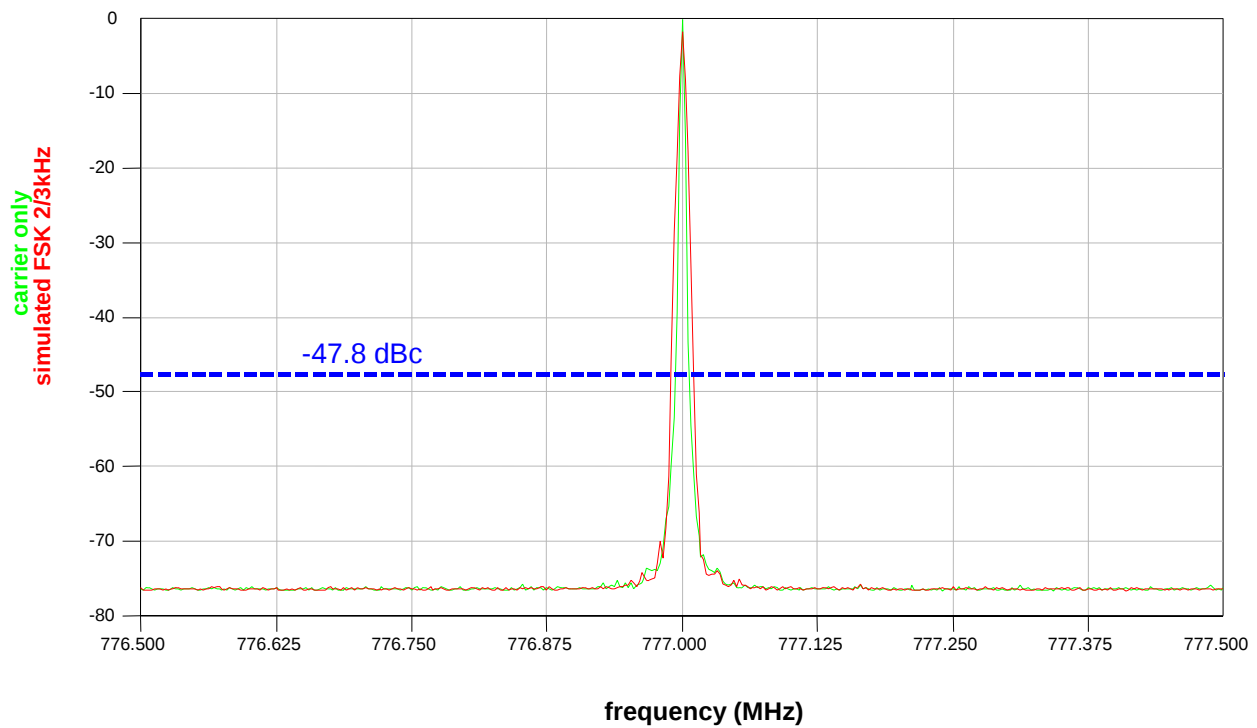
Plot 3 – Bandedge Frequency 762 MHz, Span 250 kHz



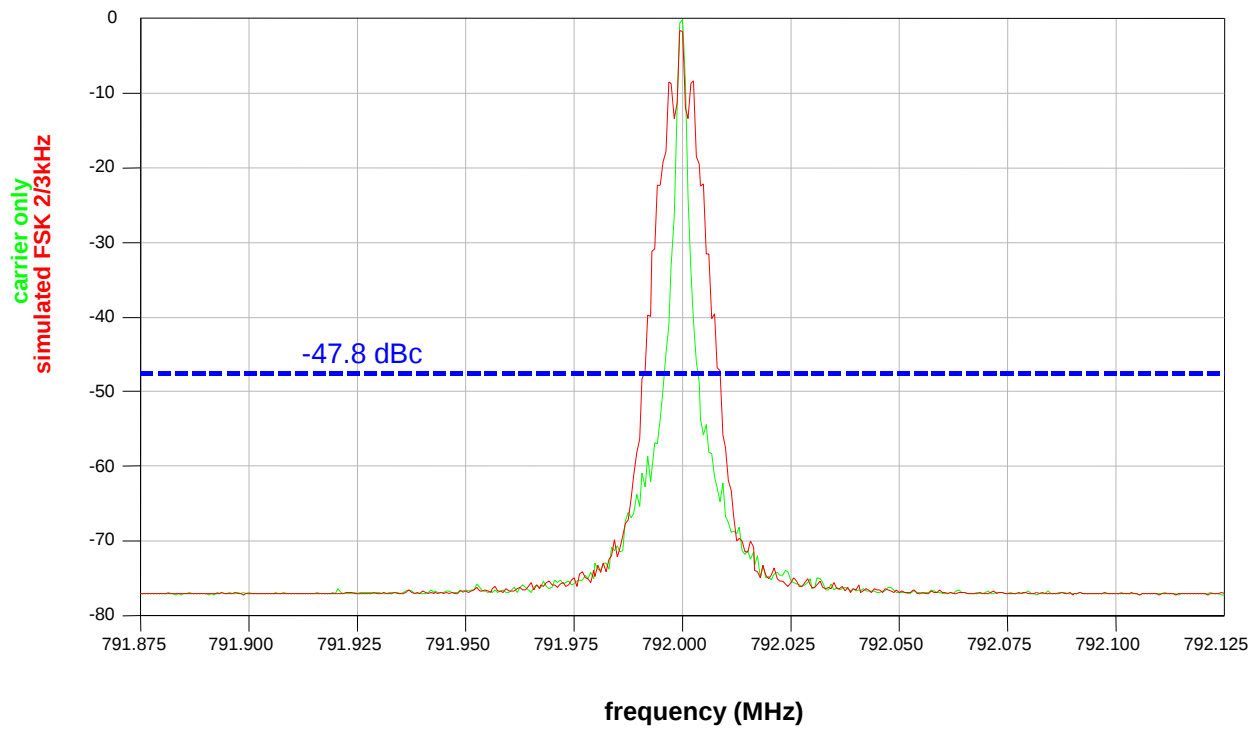
Plot 4 – Bandedge Frequency 762 MHz, Span 1 MHz



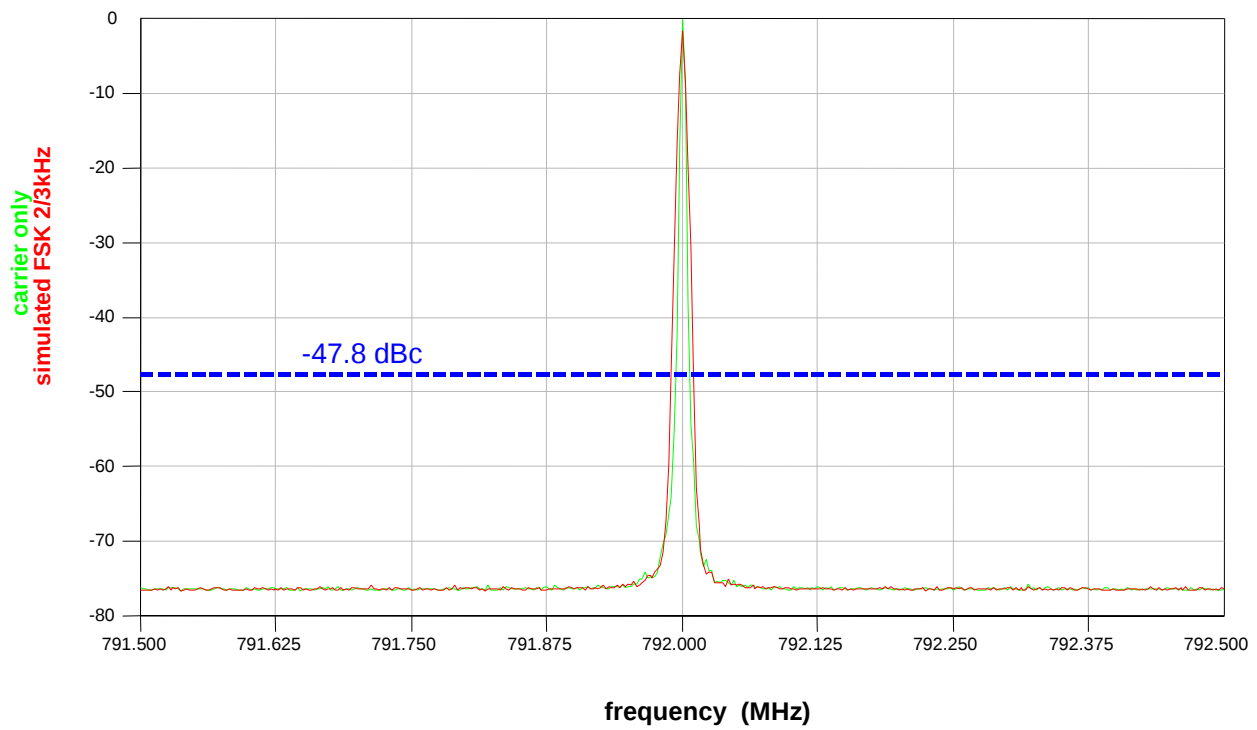
Plot 5 – Bandedge Frequency 777 MHz, Span 250 kHz



Plot 6 – Bandedge Frequency 777 MHz, Span 1 MHz



Plot 7 – Bandedge Frequency 792 MHz, Span 250 kHz



Plot 8 – Bandedge Frequency 792 MHz, Span 1 MHz

**Q2.)** Section 27.53 ( c) 3 and 4.

**R2.)** The data supplied in the original application Exhibit 6J demonstrates compliance to Rules Part 27.53(c)(4) for portable and mobile equipment. (*Note:* Rules Part 27.53(c)(3) is applicable to base and fixed equipment.) Compliance is demonstrated to the Maximum ACCP relative (dBc) limits. This equipment does not incorporate adaptive power control, and for this reason the Maximum ACCP absolute (dBm) limits are not applicable. This differentiation is clarified in the TIA/EIA Standard 603, version B.

I hope the supplied data is satisfactory. Please contact me if you require any additional information.

Sincerely,

A handwritten signature in cursive script that reads "James M. Zima".

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