

SUBJECT: CamLite Corporation - FCC ID: QIH-CL1

REFERENCE: JOB 973UC3

Attn: Gretchen Torres & Bruno Clavier

In reply to your recent questions:

EMC:

1. TUNING PROCEDURE: This exhibit was not received for this application and it is a required exhibit. Please submit.

Answer: See attachment for tuning procedure.

2. Emission designator: Please, justify the designator chosen. Would it be rather `F8W?

Answer: This is a single channel containing FM, NTSC video with 6MHz aural sub-carrier. That is why we used 'FXW' as the emission designator.

3. Please, explain why the device is exempted from the requirements of Part 2.1047 (a),(b), and particularly (d)? What is the video frequency of maximum response according to 2.1047(d)? An analysis using the Bessel coefficients (functions) should be used. Notes: The modulation index  $m$  is equal to the deviation divided by the maximum modulation frequency.

Answer: Audio frequency response and audio low passfilter are not required for wideband emissions. We check it with Mr. Steven Dayhoff at FCC. (See similar product certified by Timco before with FCC ID: QIH-CL0201)

4. Does this device employ modulation limiting? Please, provide a set of curves.

Answer: It is not required for wideband emissions. You may like to check on our previous submission for the same type of product. (See FCC ID: QIH-CL0201)

5. Necessary Bandwidth calculation ( $N_b$ ): Please, use the Carson's rules ( $2M+2D$ ) to determine the necessary bandwidth  $N_b$ . The 99% occupied bandwidth, as measured in the test report, is not the minimum bandwidth required to convey the information, as 1M32 includes only a portion of the modulated envelop. The color sub-carriers and sound carriers are missing. The data obtained in 5. should be used to calculate  $N_b$ .

Answer: There is no formula for FM, NTSC video with aural sub-carrier. Therefore, the measured 99% occupied band was used as the emission bandwidth.

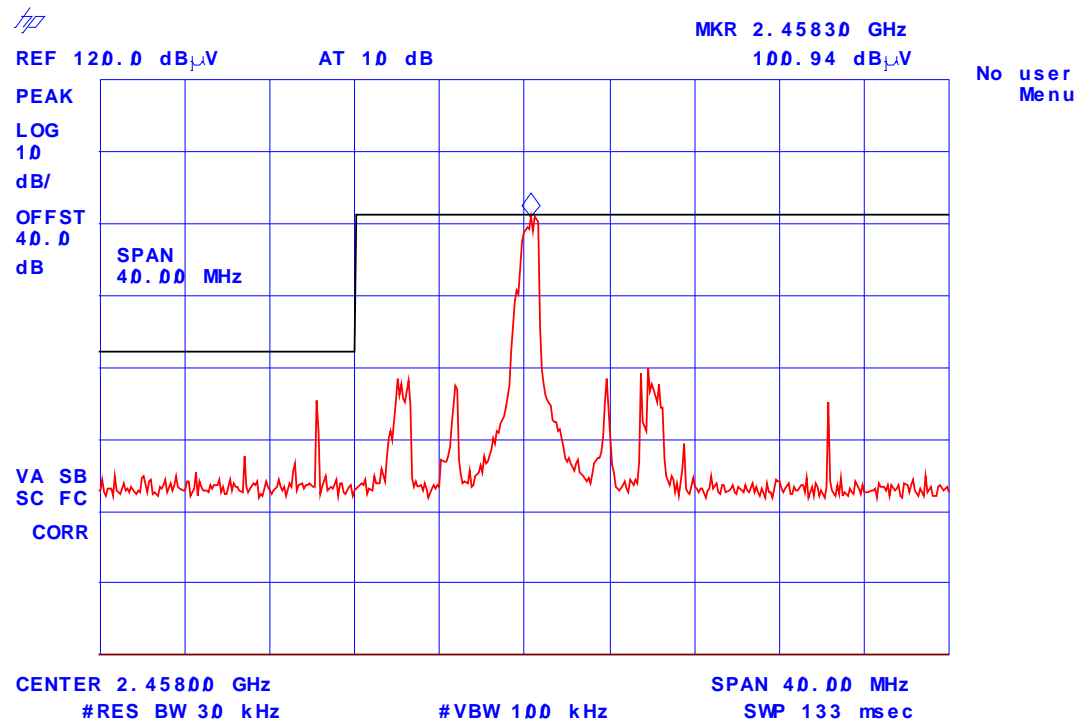
6. Occupied Bandwidth/band-edges: Please, specify the maximum audio and video settings (e.g. signal amplitude, etc.) used to performed this test. Was the transmitter modulated to its maximum extent to show compliance at the band-edges? A video pattern generator can be used to generate video and audio.

Answer: The modulation is internally generated, the manufacturer tune the device for typical use. Test was performed with this manufacture setting. There are no audio/video input/output ports on this device.

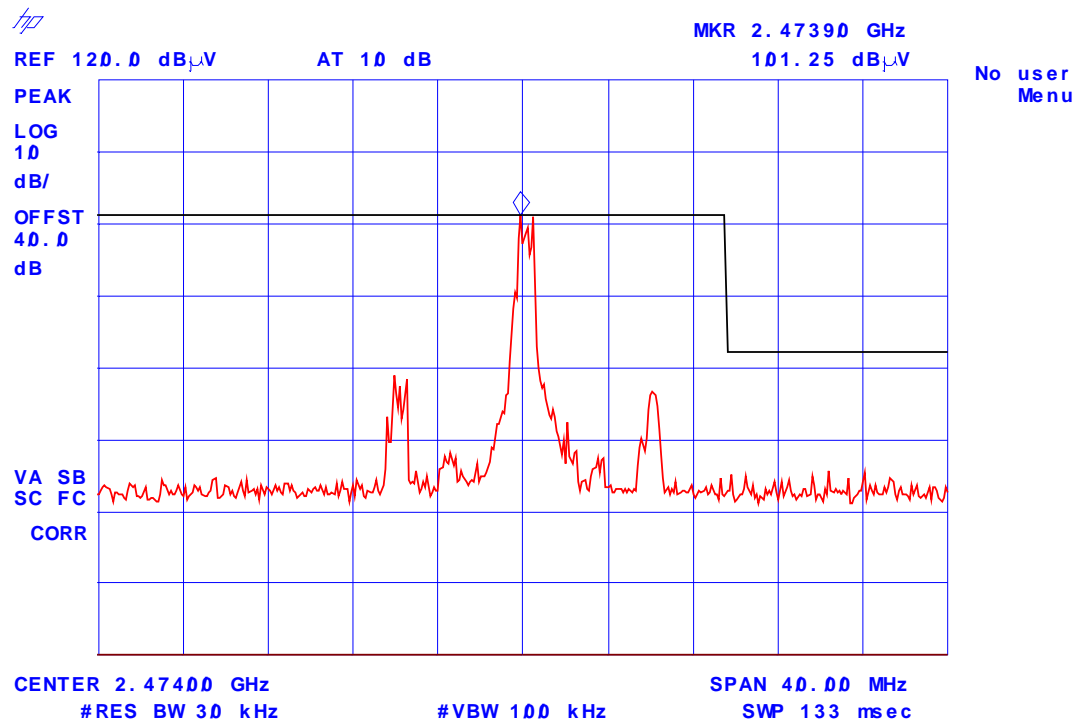
7. Frequency Stability as a function of Temperature and Voltage: Please, provide the actual measured frequency tolerance, which is required to be reported on 731 form. Additionally, please provide the tolerance at the battery end-point as required under part 2.1055(d)(2).

Answer: See revised 731 Form for measured frequency tolerance. Below are the data plots for frequency stability measured at battery end point (4 V):

**Configuration: Frequency: 2458 MHz, Temperature: 20°C**



Configuration: Frequency: 2474 MHz, Temperature: 20°C



8. Part 2.1033 (c)(8): Please, provide the dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range, as specify in this section.

Answer:

DC Voltage (V)	DC Current (A)
7.5	0.858
7.0	0.821
6.5	0.792
6.0	0.729
5.5	0.456
5.0	0.337
4.5	0.271
4.0	0.219

9. Form 731: The application was made for a TNB. It appears that the device has provisions for body-worn operation. TNT appears to be more appropriate. Please, confirm and/or comment.

Answer: This is a handheld device, it operate like a flashlight. There is NO provision for body-worn operations.

RF exposure:

10. User's Manual: End-users must be informed of the body-worn operating requirements for satisfying RF exposure compliance. Please, include specific RFx information in the User's manual.

Answer: This device in NOT intended for body-worn operation and there are no provisions for such usage. SAR compliance was for bystander operations.

11. It could not be found in the test report whether the test device was a production unit or identical prototype according to Part 2.908. Please, specify.

Answer: Test sample is a preproduction unit.

12. It could not be found any reference to the probe's crest factor/or duty cycle used for the measurements. Please, specify.

Answer: See page 9 in SAR report. EUT was transmitting continuously (100% duty cycle) as probe is calibrated in CW. Thus, there was no duty cycle correction factor.