

Re:	FCC ID QLAMID
Applicant:	Mala GeoScience AB (publ)
Correspondence Reference Number:	24454
731 Confirmation Number:	EA364767

Dear Mr Dayhoff,

The two test reports that are referred to below was uploaded on your web with the description "Test report" (TR-020144) and "test report 2" (TR-020169).

Below you'll find our lab's answers to your questions. In case you answer this letter in the same way as we got a similar letter answered, I also forward the message, from our test lab, that the plot on page 13 of the test report (TR020169) was made with an RBW of 1MHz.

Answers from our test lab follows:

- 1) The plot you are referring to (page 13 in Test Report TR020169) is only shown to verify were the listed frequencies describing the -10 dB points data on page 12 come from. There is no demand in the FCC documents to do additional measurements to verify the definitions according to 15.503 (a-d) and 15.509 (a). Measurements to show compliance with 15.509 (d) have been performed up to 5 GHz.
- 2) The plot and data indicate that the measurements are corrected for non-linearity. In the measurement procedures described in 5.2.2 of the above mentioned test report it is written "The diagrams show the peak field strength from these sweeps." the plots indicate frequency versus field strength (dBμV/m). This can only be achieved by applying the correction factors for the measurement equipment used.
- 3) Using the same test procedures as described in 5.1.2 of the above mentioned test report for the measurement below 960 MHz would NOT be in compliance with 15.509 (d). These measurements have been reported and shown to comply with the limits according to test report TR-020144 uploaded to your site.

Best regards.

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- 1) *The -10 dB plot only goes to 1 GHz. Part 15.521(h) indicates that the upper measurement frequency is $F_c + 3/(pulse\ width\ in\ seconds)$. This is approximately 2 Ghz. Submit this data.*
- 2) *The -10 dB plot and radiated emissions data plots do not indicate that they are corrected for non-linearities in the system (amplifier gain, antenna factors, etc.) . How was this achieved? Submit new corrected plots and data as necessary.*
- 3) *Submit radiated emissions plots or data for frequencies below 960 MHz using the same test procedure described in 5.1.2 of the new Test Report using QP detector for frequencies below 960 MHz.*