Annex E – FCC §15.209 Band Edges

Note: below measurements are in units of dBuV/m at 3meters. These measurements are performed conducted in lieu of radiated as permitted by ANSI C63.10-2013. The following formula was used in making such conversions:

For measurements above 1GHz:

$$E[dB\mu V/m] = EIRP[dBm] - 20 \log (d[m]) + 104.77$$

where E is field strength and d is measurement distance at which the field strength limit is specified in the applicable requirements.

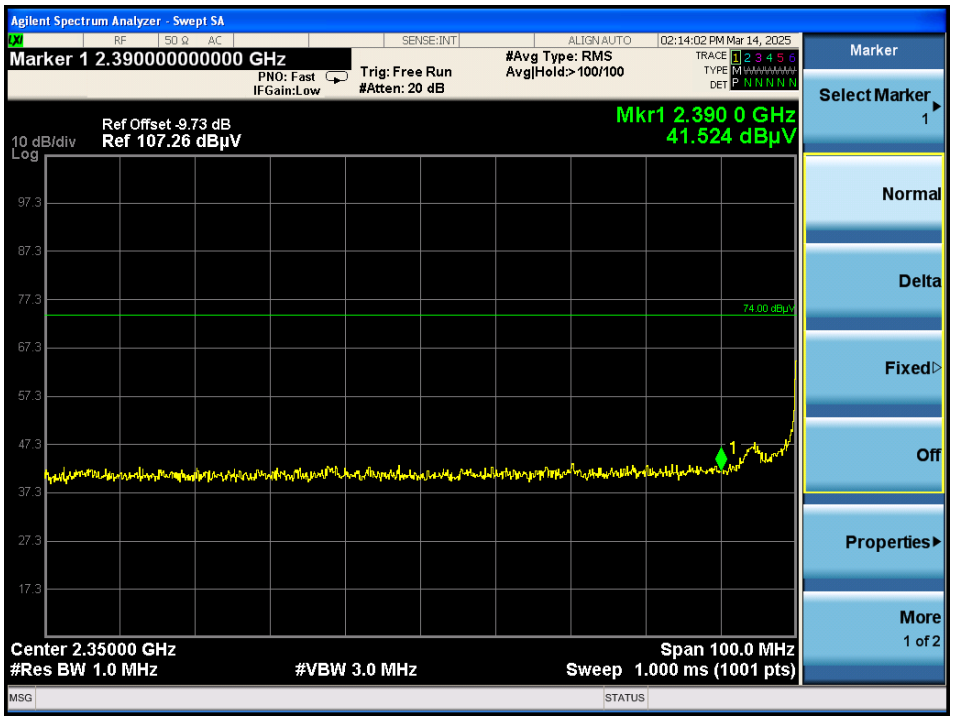
For d = 3m:

$$E[dB\mu V/m] = EIRP[dBm] + 95.2$$

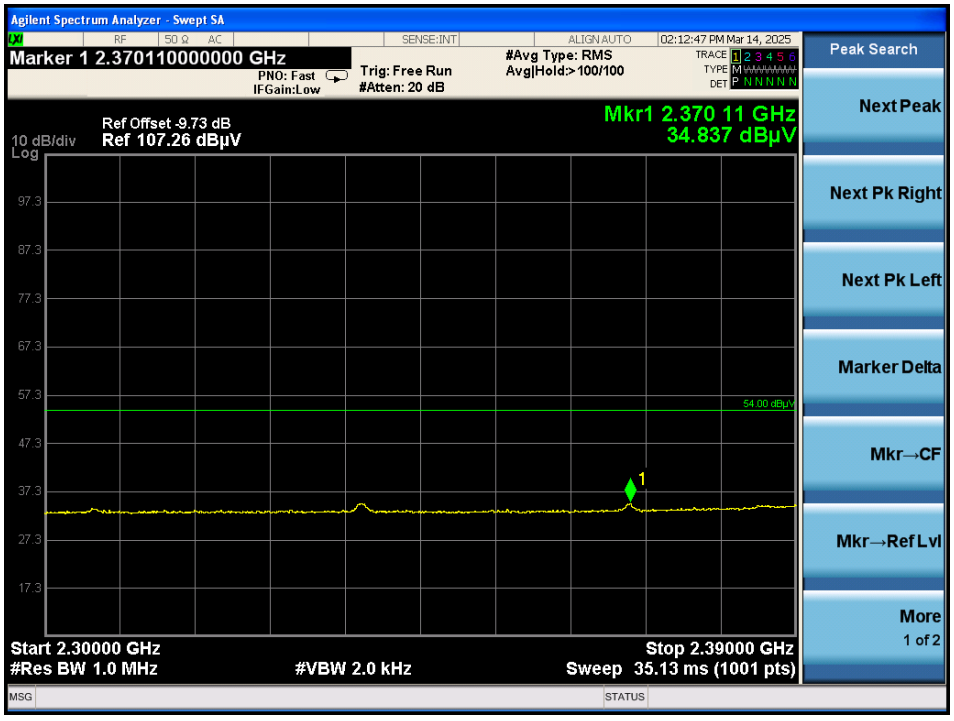
Straight conversion factor between E[dBuV/m] and EIRP[dBm] is 107, thus the offset for dBuV/m at 3meters is

$$\text{Offset [dB]} = 95.2 - 107 + \text{antenna gain} + \text{cable loss.}$$

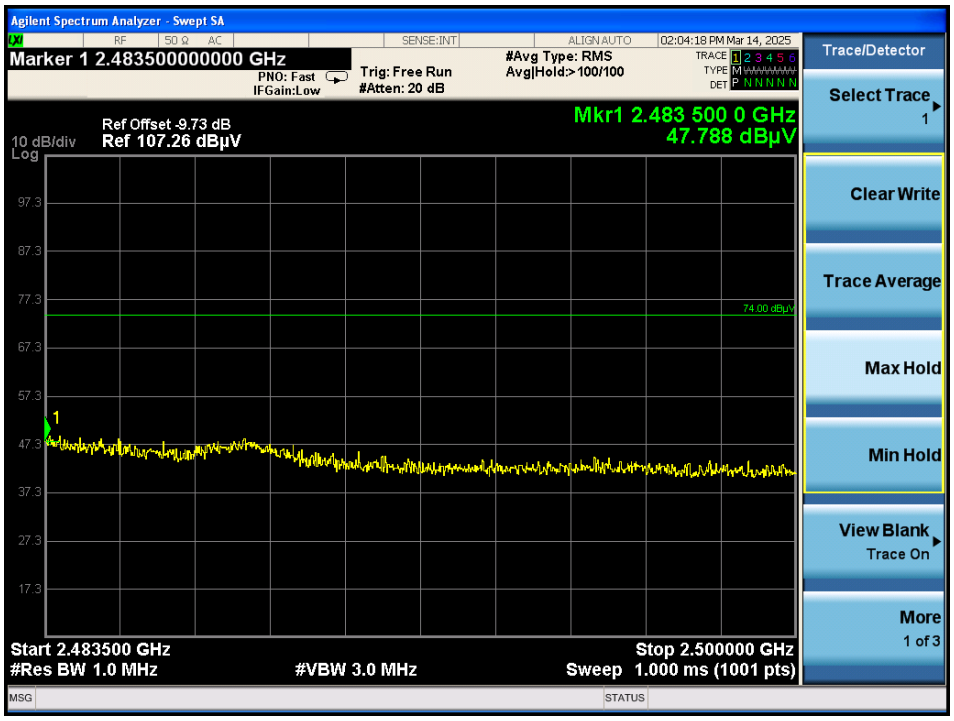
BLE, 1M PHY, 2402 MHz, Lower Band Edge, Peak



BLE, 1M PHY, 2402 MHz, Lower Band Edge, Average

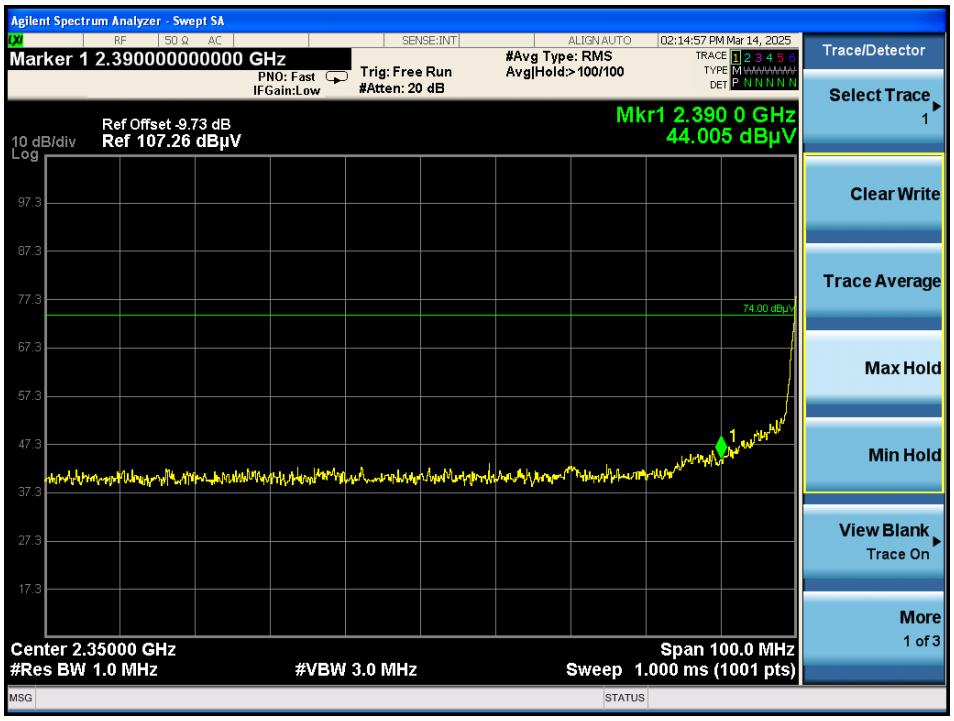


BLE, 1M PHY, 2480 MHz, Upper Band Edge, Peak

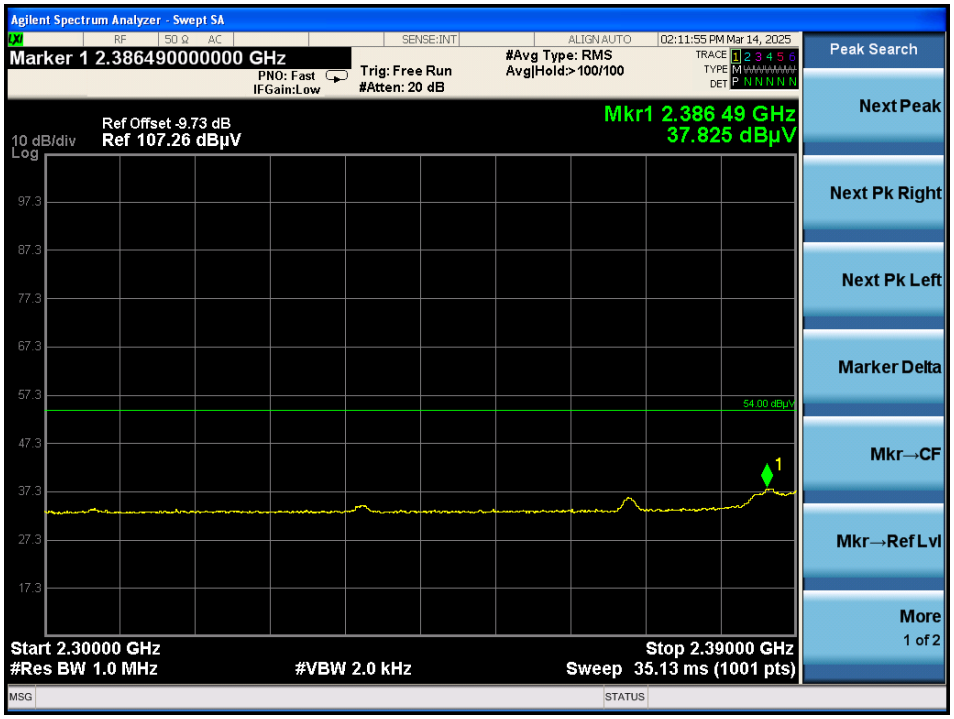


BLE, 1M PHY, 2480 MHz, Upper Band Edge, Average

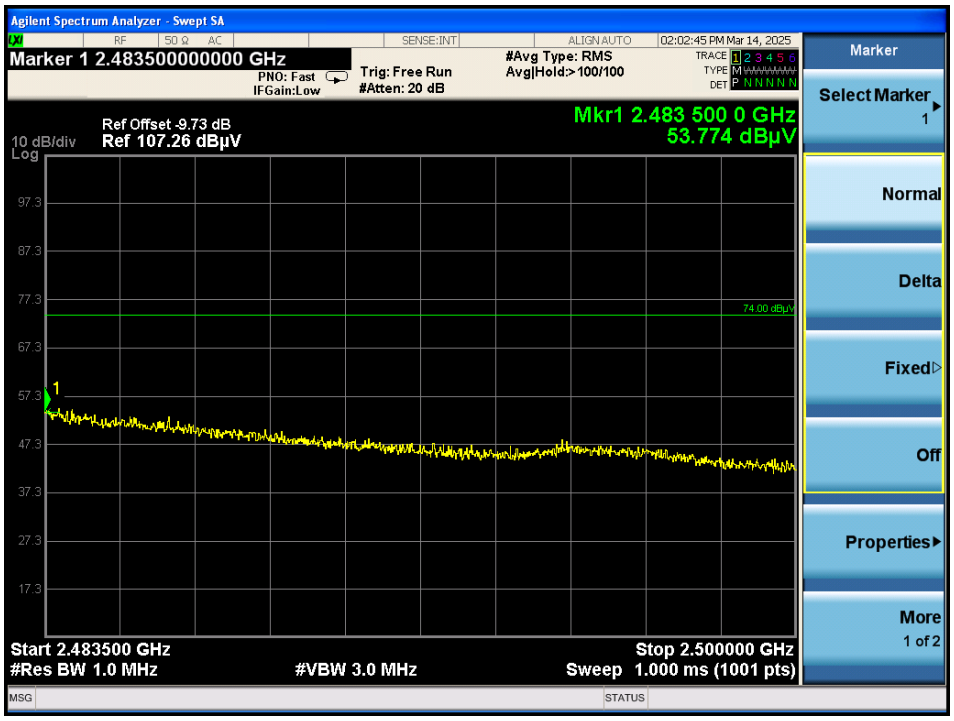
BLE, 2M PHY, 2402 MHz, Lower Band Edge, Peak



BLE, 2M PHY, 2402 MHz, Lower Band Edge, Average



BLE, 2M PHY, 2480 MHz, Upper Band Edge, Peak



BLE, 2M PHY, 2480 MHz, Upper Band Edge, Average