

6b.6 Power Line Conducted Spurious Voltage

Conducted voltage limits:

This radio product can transmit in MOTOtalk ISM Band while resting in a battery charger that is connected to the AC power line. Each figure contains two measurement traces in addition to the two applicable limit lines (pink and red traces), the higher being applicable to measurements utilizing a quasi-peak detector and the lower being applicable to measurements utilizing an average detector. The upper data trace (light blue) portrays the amplitude of the voltage measured during sweeping with a peak detector while the lower trace (light green) represents the amplitude of the voltage measured using an average detector. These detectors facilitated the measurement process. Measurements with a quasi-peak detector lie between these bounds.

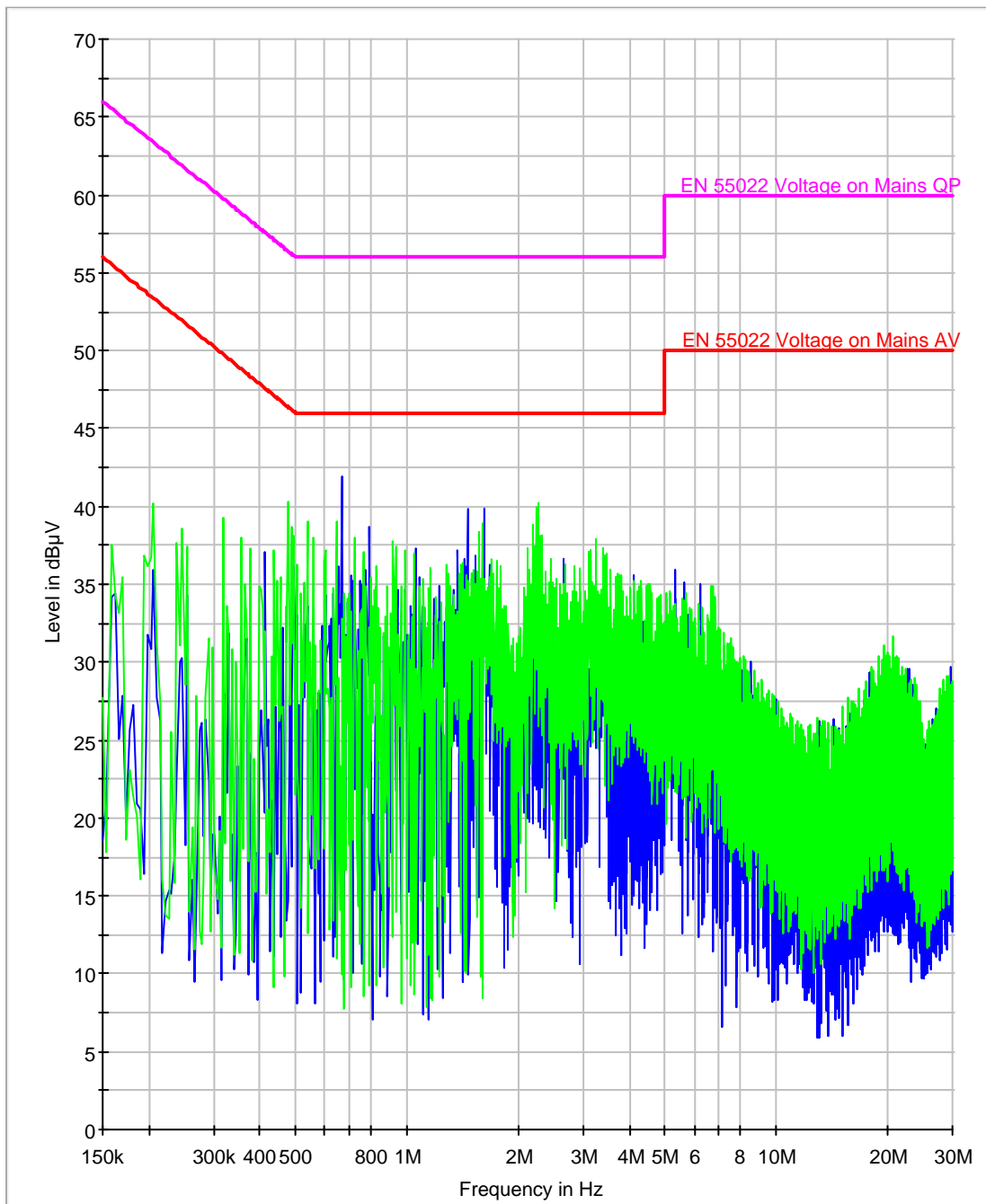


Figure 6b-6.1: MOTOTalk mode Phase Line and Neutral Line Voltage with a Peak and Average Detector N (Green) L1 (Blue)

ISM TX 902.625 MHz Limits

Frequency							
<= 500kHz	QP value	QP Limit	QP Margin	Avr Value	Avr Limit	Avr Margin	Ph
158000	33.00	65.77	32.77	27.20	55.77	28.57	L1
170000	31.00	65.43	34.43	22.50	55.43	32.93	L1
194000	30.40	64.74	34.34	19.30	54.74	35.44	L1
206000	35.30	64.39	29.09	30.60	54.39	23.79	L1
246000	30.50	63.24	32.74	25.30	53.24	27.94	L1
254000	30.10	63.01	32.91	16.60	53.01	36.41	L1
158000	38.70	65.77	27.07	30.90	55.77	24.87	N
170000	36.80	65.43	28.63	26.00	55.43	29.43	N
194000	35.80	64.74	28.94	24.10	54.74	30.64	N
206000	39.80	64.39	24.59	33.80	54.39	20.59	N
246000	34.90	63.24	28.34	27.80	53.24	25.44	N
254000	31.50	63.01	31.51	19.50	53.01	33.51	N

Table 6b-6.2: Line Voltage Data- Quasi-Peak and Average