

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

Equipment

Type of equipment:	Communication Radio
Brand name:	Dualway
Type / Model:	Dualway
Manufacturer:	Interspiro AB
By request of:	Roland Tschöp

Transmitting frequency	902-928 MHz
Max peak output power, measured at 902,55MHz	18,6 dBm = 72,444 mW

Calculations

Timing parameters are according to the manufacturer.

The maximum transmission time during one transmission pulse

Sync data: 1,14 ms

Audio data: 6,54 ms

There is 40 ms between each transmission pulse.

Maximum duty cycle:

$$\frac{1,14 + 6,54ms}{40ms} = \frac{7,68ms}{40ms} = 19,2\%$$

Average power:

$$72,444 \text{ mW} * 19,2\% = 13,909 \text{ mW}$$

The low power threshold is:

$$\frac{60}{f_{\text{GHz}}} = \frac{60}{0,90255} = 66,478 \text{ mW}$$

Co-location with other transmitters

According to the manufacturer;

Separation between the transmitting antenna and a person using it is < 5cm.

The distance to the co-located antenna is 8 cm (i.e. > 5cm) when the transmitter is mounted on another communication radio.

The Dualway radio will be used together with (mounted on) a Motorola HT1250 communications radio.

The FCC Id's for Motorola HT1250 are:

<i>FCC ID</i>	<i>Transmitting frequency</i>
AZ489FT3794	136-174 MHz
ABZ99FT3080	217-218/219-222 MHz
AZ489FT4826	403-470 MHz
AZ489FT4834	450-512 MHz
ABZ99FT5000	746-747/762-764/776-777/792-794 MHz

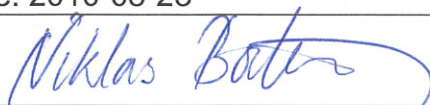
These are higher power transmitters that are approved using the occupational exposure limits.

Conclusion:

All requirements in FCC KDB 447498 section 3b (ii)(1) are fulfilled and no SAR testing is required.

Intertek Semko AB, Radio & EMC

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