



COMMUNICATIONS, INC.

Electromagnetic Devices for Radio Communications Systems

November 14, 2016

Subject: RF MPE Exposure

FCC ID: **P3TDH7**

IC ID: **8986A-DH7**

To Whom It May Concern:

The MPE calculations for model DH7 signal booster were done for frequency band 700 MHz. For this band four calculations were done; these included the different possibilities of antennas that may be connected to this device and two output power options (with and without High Power amplifier): fixed outside and inside antennas.

Minimum Safe Distance from Antennas

High power configuration

According FCC CFR 47 part 1, 1310

	Frequency	Power	Antenna Gain	EIRP	EIRP	Distance D	PD	Limit	Margin
	MHz	dBm	dBi	dBm	mW	cm	mW/m ²	mW/cm ²	dB
DL	763	37	0	37	5012	45.00	0.1970	0.5087	4.12
UL	793	24	13	37	5012	45.00	0.1970	0.5287	4.29
	PD=EIRP/(4πrD ²)								



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Minimum Safe Distance from Antennas

Mid power configuration

According FCC CFR 47 part 1, 1310

	Frequency	Power	Antenna Gain	EIRP	EIRP	Distance D	PD	Limit	Margin
	MHz	dBm	dBi	dBm	mW	cm	mW/m ²	mW/cm ²	dB
DL	763	30	0	30	1000	45.00	0.0393	0.5087	11.12
UL	793	24	13	37	5012	45.00	0.1970	0.5287	4.29
	PD=EIRP/(4πrD ²)								

Minimum Safe Distance from Antennas

Low power configuration

According FCC CFR 47 part 1, 1310

	Frequency	Power	Antenna Gain	EIRP	EIRP	Distance D	PD	Limit	Margin
	MHz	dBm	dBi	dBm	mW	cm	mW/m ²	mW/cm ²	dB
DL	763	24	0	24	251	45.00	0.0099	0.5087	17.12
UL	793	24	13	37	5012	45.00	0.1970	0.5287	4.29
	PD=EIRP/(4πrD ²)								

Minimum Safe Distance from Antennas

High power configuration

According CANADA RSS-102

	Frequency	Power	Antenna Gain	EIRP	EIRP	Distance D	PD	PD W	Limit	Margin
	MHz	dBm	dBi	dBm	mW	cm	mW/m ²	W/m ²	PD W/m ²	dB
DL	768	37	0	37	5012	45.00	0.1970	1.970	2.45	0.96
UL	798	24	13	37	5012	45.00	0.1970	1.970	2.52	1.07
	PD=EIRP/(4πrD ²)									



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Minimum Safe Distance from Antennas

Mid power configuration

According CANADA RSS-102

	Frequency	Power	Antenna Gain	EIRP	EIRP	Distance D	PD	PD W	Limit	Margin
	MHz	dBm	dBi	dBm	mW	cm	mW/m ²	W/m ²	PD W/m ²	dB
DL	768	30	0	30	1000	45.00	0.0393	0.393	2.45	7.96
UL	798	24	13	37	5012	45.00	0.1970	1.970	2.52	1.07
	PD=EIRP/(4xπxD ²)									

Minimum Safe Distance from Antennas

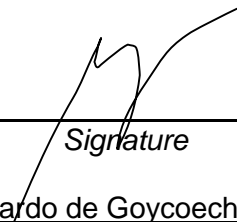
Low power configuration

According CANADA RSS-102

	Frequency	Power	Antenna Gain	EIRP	EIRP	Distance D	PD	PD W	Limit	Margin
	MHz	dBm	dBi	dBm	mW	cm	mW/m ²	W/m ²	PD W/m ²	dB
DL	768	24	0	24	251	45.00	0.0099	0.099	2.45	13.96
UL	798	24	13	37	5012	45.00	0.1970	1.970	2.52	1.07
	PD=EIRP/(4xπxD ²)									

Dated this 14th day of November 2016

By:



Signature

 Ricardo de Goycochea
Printed

Title: CEO
 On behalf of: Fiplex Communications, Inc
 Telephone: +1 305 884 8991