



MOTOROLA

FCC ID: AZ489FT4850

RF POWER OUTPUT DATA

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

Measured Conducted RF output (GMRS)	1.04	Watts
Measured Conducted RF output (FRS)	0.580	Watts
* Measured Radiated RF output (GMRS)	0.434	Watts
* Measured Radiated RF output (FRS)	0.336	Watts
Normal DC Voltage	4.20	Volts
Normal DC Current (GMRS)	760	ma
Normal DC Current (FRS)	542	ma
Primary Supply Voltage	4.50	Volts

RF Conducted output measured at 4.5v

*Measured Radiated RF output. A fully assembled radio with the antenna mounted to the device was used for measuring Effective Radiated Power (ERP) for both FRS and GMRS bands using the substitution method. The radio was powered by AA Alkaline batteries and the transmitter keyed up by inserting a shorted pin in the microphone jack to activate the external PTT circuit. The maximum radiated power level observed was 25.26 dBm at 467.6125 MHz (FRS band) and 26.37 dBm at 462.6250 MHz (GMRS band). Therefore, the measured Effective Radiated Power (ERP) in Watts is:

For FRS:

$$\text{ERP} = 10^{(25.26/10)} = 10^{2.526} = 0.336 \text{ Watts.}$$

For GMRS:

$$\text{ERP} = 10^{(26.37/10)} = 10^{2.637} = 0.434 \text{ Watts.}$$

EXHIBIT: 6A

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GMRS Radiated Power

	ERP	Chase					
	Frequency(MHz)	Turn Table Deg.	Path Loss	Ant. Height	Ant. Angle	SA Reading(dBm)	Radiated Power. (dBm)
Horiz.	462.625	0	32.68	168	0	-20.39	12.29
Horiz.	462.625	45	32.68	203	0	-25.37	7.31
Horiz.	462.625	90	32.68	100	0	-26.71	5.97
Horiz.	462.625	135	32.68	100	0	-22.01	10.67
Horiz.	462.625	180	32.68	100	0	-20.05	12.63
Horiz.	462.625	225	32.68	202	0	-28.28	4.40
Horiz.	462.625	270	32.68	162	0	-26.28	6.40
Horiz.	462.625	315	32.68	165	0	-20.35	12.33
Vert.	462.625	0	32.78	113	0	-6.68	26.10
Vert.	462.625	45	32.78	104	0	-7.47	25.31
Vert.	462.625	90	32.78	100	0	-9.53	23.25
Vert.	462.625	135	32.78	100	0	-8.16	24.62
Vert.	462.625	180	32.78	110	0	-6.41	26.37
Vert.	462.625	225	32.78	103	0	-8.13	24.65
Vert.	462.625	270	32.78	100	0	-9.57	23.21
Vert.	462.625	315	32.78	100	0	-8.73	24.05

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FRS Radiated Power

	ERP	Chase					
	Frequency(MHz)	Turn Table Deg.	Path Loss	Ant. Height	Ant. Angle	SA Reading(dBm)	Radiated Power. (dBm)
Horiz.	467.6125	0	33.4	163	0	-19.78	13.62
Horiz.	467.6125	45	33.4	204	0	-27.8	5.60
Horiz.	467.6125	90	33.4	181	0	-25.44	7.96
Horiz.	467.6125	135	33.4	172	0	-23.7	9.70
Horiz.	467.6125	180	33.4	178	0	-23.25	10.15
Horiz.	467.6125	225	33.4	185	0	-29.06	4.34
Horiz.	467.6125	270	33.4	160	0	-27.64	5.76
Horiz.	467.6125	315	33.4	169	0	-22.63	10.77
Vert.	467.6125	0	33.24	103	0	-7.98	25.26
Vert.	467.6125	45	33.24	107	0	-8.66	24.58
Vert.	467.6125	90	33.24	100	0	-11.41	21.83
Vert.	467.6125	135	33.24	100	0	-9.69	23.55
Vert.	467.6125	180	33.24	102	0	-8	25.24
Vert.	467.6125	225	33.24	100	0	-9.37	23.87
Vert.	467.6125	270	33.24	100	0	-10.57	22.67
Vert.	467.6125	315	33.24	100	0	-10.34	22.90