

FCC RF EXPOSURE REPORT

FCC ID: N73-ET33

Project No. : 1501C132
Equipment : ET33 Tag
Model : ET33
Applicant : Mine Site Technologies Pty Ltd.
Address : 113 Wicks Road, North Ryde, New South Wales
: 2113, Australia

According: : FCC Guidelines for Human Exposure IEEE
: C95.1

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	RainSun	AN9520-245	Chip	N/A	1.30	TX/RX

TEST RESULTS

EUT :	ET33 Tag	Model Name :	ET33
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.30	1.3490	21.39	137.7209	0.03697859	1	Complies
1.30	1.3490	21.27	133.9677	0.03597082	1	Complies
1.30	1.3490	20.87	122.1800	0.03280578	1	Complies

Note: the calculated distance is 20 cm.