

1 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

1.1 Standard Applicable

According to mission's guideline.

This is a Mobile device, the MPE is required.

According to (minute)

Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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1.2 Maximum Permissible Exposure (MPE) Evaluation

Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
5180	15.71	0.0372	0.4246
5220	15.14	0.0327	0.4246
5240	12.41	0.0174	0.4246

MPE Prediction (802.11a 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$S=PG/4$

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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
5180	18.45	0.0700	0.2123
5220	17.28	0.0535	0.2123
5240	16.30	0.0427	0.2123

MPE Prediction (802.11n_HT20 5150~5250)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
5190	13.29	0.0213	0.2123
5230	16.87	0.0486	0.2123

MPE Prediction (802.11n_HT40 5150~5250)

Prediction of MPE limit at a given distance

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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
5745	11.39	0.0138	0.4064
5785	10.44	0.0111	0.4064
5825	10.10	0.0102	0.4064

MPE Prediction (802.11a 5745~5825)

Prediction of MPE limit at a given distance

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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
5745	15.18	0.0330	0.2032
5785	14.20	0.0263	0.2032
5825	13.46	0.0222	0.2032

MPE Prediction (802.11n_HT20 5745~5825)

Prediction of MPE limit at a given distance

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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)
5755	13.26	0.0212	0.2032
5795	15.00	0.0316	0.2032

MPE Prediction (802.11n_HT40 5755~5795)

Prediction of MPE limit at a given distance

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