

Model Information	
FCC ID:	NZLFDMHL6D
Model:	FDMHL6D
# of Transmitters Simultaneously Transmitting	3
Distance to User (cm)	20
Mobile or Portable	Mobile
Field Strength or Worse Case Output Power	
Radiated Field Strength - 288MHz(dBuV/m)	82.34
Radiated Field Strength - 310MHz(dBuV/m)	83.34
Radiated Field Strength - 365MHz(dBuV/m)	84.82
Radiated Field Strength - 430MHz(dBuV/m)	83.44
Worse Case Output Power - 902-928MHz (dBm)	-3.566
Worse Case Output Power - BLE - 2.4GHz (dBm)	4.72
Antenna Gain	
Worse Case Antenna Gain - HL High Band (dBi)	-7.59
Worse Case Antenna Gain - BLE (dBi)	0.61

Requirements	
Distance to User (cm):	d≥20
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	288
Measured Field Strength (dBuV/m):	82.34
Distance to User (cm):	20
dBuV/m to V/m	0.013
Worst Case EIRP (mW)	0.051419
Power Density (mW/cm²)	0.000010
Power Density Limit (mW/cm²)	0.2
Ratio	5.11471E-05

Exposure Evaluation
Equation from page 18 of OET Bulletin 65, Edition 97-01
 $S=(PG)/4\pi R^2$
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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Permissible Exposure (MPE)

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	d≥20
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	310
Measured Field Strength (dBuV/m):	83.34
Distance to User (cm):	20
dBuV/m to V/m	0.015
Worst Case EIRP (mW)	0.064732
Power Density (mW/cm²)	0.000013
Power Density Limit (mW/cm²)	0.206666667
Ratio	6.23133E-05

Exposure Evaluation
Equation from page 18 of OET Bulletin 65, Edition 97-01
 $S=(PG)/4\pi R^2$
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 1 from 47 CFR 1.1310—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	d≥20
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	365
Measured Field Strength (dBuV/m):	84.82
Distance to User (cm):	20
dBuV/m to V/m	0.017
Worst Case EIRP (mW)	0.091017
Power Density (mW/cm²)	0.000018
Power Density Limit (mW/cm²)	0.243333333
Ratio	7.44132E-05

Exposure Evaluation
Equation from page 18 of OET Bulletin 65, Edition 97-01
 $S=(PG)/4\pi R^2$
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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Permissible Exposure (MPE)

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	d≥20
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	430
Measured Field Strength (dBuV/m):	83.44
Distance to User (cm):	20
dBuV/m to V/m	0.015
Worst Case EIRP (mW)	0.066240
Power Density (mW/cm²)	0.000013
Power Density Limit (mW/cm²)	0.286666667
Ratio	4.597E-05

Exposure Evaluation
Equation from page 18 of OET Bulletin 65, Edition 97-01
 $S=(PG)/4\pi R^2$
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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f²)	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Permissible Exposure (MPE)

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	902
Distance to User (cm):	20
Worse Case Output Power (dBm):	-3.57
Distance to User (cm):	20.1
Antenna Gain (dBi)	-7.59
Numerical Antenna Gain	0.174180687
Tune Up Adjustment (dB)	1
Worse Case Output Power with tune up tolerance (dBm):	-2.57
Worse Case Output Power with tune up tolerance (mW):	0.554
EIRP (mW)	0.096472
Power Density (mW/cm^2)	0.000110
Power Density Limit (mW/cm^2)	0.60133333
Ratio	0.000183331

Exposure Evaluation

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

$$S = (PG) / 4\pi R^2$$

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)	Permissible Exposure (MPE)
(ii) 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	
300-1,500			$f/1500$	<30	
1,500-100,000			1.0	<30	

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

Requirements	
Distance to User (cm):	$d \geq 20$
Exposure Condition:	Mobile
Model Information	
Frequency (MHz):	2402
Distance to User (cm):	20
Worse Case Output Power (dBm):	4.72
Distance to User (cm):	20
Antenna Gain (dBi)	0.61
Numerical Antenna Gain	1.150800389
Tune Up Adjustment (dB)	1
Worse Case Output Power with tune up tolerance (dBm):	5.72
Worse Case Output Power with tune up tolerance (mW):	3.733
EIRP (mW)	4.295364
Power Density (mW/cm^2)	0.000855
Power Density Limit (mW/cm^2)	1
Ratio	0.000854969

Exposure Evaluation

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

$S = (PG) / 4\pi R^2$

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 1 from 47 CFR 1.1310—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(ii) 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
300-1,500			$f/1500$	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB447498 Section 3, the RF exposure guidelines adopted by the FCC are based on SAR and MPE limits. The basic restrictions for human exposure is defined by SAR limits. MPE limits are derived from the SAR limits, in terms of free-space field strength and power density.

FCC Total Exposure Ratio	
Specification/Frequency Band	Worse Case
15.231 - 286-440MHz	0.000074
15.247 - 902-928MHz	0.000183
15.247 - 2.4GHz (BLE)	0.000855
Total Exposure Ratio=	0.001524