

FCC ID: NZLADHL5D

RF Exposure/ SAR Statement

Model: ADHL5D

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

**$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [f(\text{GHz})] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where**

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

EIRP (dBm)	-16.37	
Tune-up Tolerance (dB)	1	
Antenna gain @ 365MHz (dBi to dBd)-	-22.28	dBd
	2.15	
RF Conducted (dBm)	4.76	dBm
Closest Distance to the User	5	cm
Converting	4.76	dBm to mW 2.992265 mW
$(3/50) \cdot \sqrt{0.288}$	=	<b>0.03</b> <b>3.0</b> <b>1-G Limit</b> 0.011 <b>Ratio</b>

To convert dBuV/m to EIRP(dBM)

Enter the dBuV/m value below:

78.89 dBuV/m

-16.37 =EIRP (dBm)

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For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

**[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where**

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

EIRP (dBm)	-12.67			
Tune-up Tolerance (dB)	1			
Antenna gain @ 365MHz	-23.14	dBd		
(dBi to dBd)-	2.15			
RF Conducted (dBm)	9.32	dBm		
Closest Distance to the User	5	cm		
Converting	9.32	dBm to mW	8.56	mW
(9/50)*√0.310	=	0.10	3.0	1-G Limit
		0.03	Ratio	

**To convert dBuV/m to EIRP(dBm)**

**Enter the dBuV/m value below:**

82.59 dBuV/m  
 -12.67 =EIRP (dBm)

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For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

**[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [vf(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where**

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>31</sup>
- The result is rounded to one decimal place for comparison
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EIRP (dBm)	-7.99		
Tune-up Tolerance (dB)	1		
Antenna gain @ 365MHz	-19.2	dBd	
(dBi to dBd)-	2.15		
RF Conducted (dBm)	10.06	dBm	
Closest Distance to the User	5	cm	
Converting	10.06	dBm to mW	10.13911 mW
(10/50)*√0.365	=	0.12	3.0 1-G Limit
		0.040	Ratio

**To convert dBuV/m to EIRP(dBM)**

**Enter the dBuV/m value below:**

87.27 dBuV/m

-7.99 =EIRP (dBm)

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**[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [vf(GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where**

- f(GHz) is the RF channel transmit frequency in GHz
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EIRP (dBm)	-11.15			
Tune-up Tolerance (dB)	1			
Antenna gain @ 365MHz	-17.13	dBd		
(dBi to dBd)-	2.15			
RF Conducted (dBm)	4.83	dBm		
Closest Distance to the User	5	cm		
Converting	4.83	dBm to mW	3.043	mW
(3/50)*√0.430	=	0.04	3.0	1-G Limit
		0.013	Ratio	

**To convert dBuV/m to EIRP(dBM)**

**Enter the dBuV/m value below:**

84.11 dBuV/m

-11.15 =EIRP (dBm)

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**$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where**

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The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz.

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

Conducted Power (dBm) -2.45  
Tune-up Tolerance (dB) 1

Conducted Power plus tune-up tolerance (dBm) -1.45 dBm  
Closest Distance to the User 5 cm

Converting -1.45 dBm to mW 0.716143 mW

$(1/50) \cdot \sqrt{0.90225} = 0.019$  3.0 1-G Limit  
0.006 Ratio

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Conducted Power (dBm)	-1.66			
Tune-up Tolerance (dB)	1			
Conducted Power plus tune-up tolerance (dBm)	-0.66	dBm		
Closest Distance to the User	5	cm		
Converting	-0.66	dBm to mV	0.859014	mW
$(1/50) \cdot \sqrt{0.91475}$	=	0.019	3.0	1-G Limit
		0.006	Ratio	

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Conducted Power (dBm)	-1.04
Tune-up Tolerance (dB)	1

Conducted Power plus tune-up tolerance (dBm)	-0.04	dBm
Closest Distance to the User	5	cm

Converting	-0.04	dBm to m\	0.990832	mW
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$(1/50) \cdot \sqrt{0.92675}$	=	0.019	3.0	1-G Limit
		0.006	Ratio	

Simultaneous Transmission Calculation:					
<b>15.231</b> Worse-Case +	<b>15.247</b> Worse-Case +	=	<b>Total Ratio</b>	<b>Limit</b>	<b>Margin</b>
0.040	0.01		0.05	1	0.953305