

FCC ID:2BHL5-V0050

Portable device

For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

E-Filed Strength at 4 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)
0.125	8.13	7.54	7.66	8.19	614

E-Filed Strength at 4 cm from the top of the EUT (V/m)

Frequency Range (MHz)	Test Position E	Limits (V/m)
0.125	8.09	614

H-Filed Strength at 4 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.125	0.49	0.51	0.51	0.48	1.63

H-Filed Strength at 4 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.125	0.53	1.63

E-Filed Strength at 2 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)
0.125	7.41	7.55	8.12	7.94	614

E-Filed Strength at 2 cm from the top of the EUT (V/m)

Frequency Range (MHz)	Test Position E	Limits (V/m)
0.125	7.86	614

H-Filed Strength at 2 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.125	0.52	0.52	0.55	0.55	1.63

H-Filed Strength at 2 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.125	0.55	1.63

The probe center is 1.65cm from the coil surface, according to KDB 680106, data at 0cm must be estimated through a model, and then the model must be validated with the actual measurements at 2cm.

Using Biot-Savart Law, the value of 2cm can be estimated through the test result of 4cm
H-Filed Strength at 2 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.125	0.55	0.55	0.56	0.55	1.63

H-Filed Strength at 2 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.125	0.56	1.63

Using Biot-Savart Law, the value of 0cm can be estimated through the test result of 2cm
H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.125	0.58	0.58	0.56	0.58	1.63

H-Filed Strength at 0 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.125	0.59	1.63

The difference between measurements and estimates is no more than 30%
So the estimates in 0cm is ok