

## 8 Appendix A - General Product Information

## Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances  $\leq$  50 mm, the Numeric threshold is determined as:

Step a)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f}(GHz)] \le 3.0$  for 1-g SAR

>> The fundamental frequency of the EUT is 433.92MHz, the test separation distance is  $\leq$  5mm &  $\leq$  20mm.

(Manufacturer specified the separation distance is: 20mm)

Step a.1)

>> Numeric threshold, mW / 5 mm \*  $\sqrt{0.43392}$ GHz  $\leq 3.0$ Numeric threshold  $\leq 22.771$ mW

Step a.2)

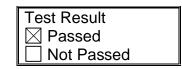
- >> Numeric threshold, mW / **20 mm** \* √0.43392GHz ≤ 3.0 Numeric threshold ≤ **91.084mW**
- >> The power of EUT measured is: -2.49dBm = 0.564mW Which is smaller than the Numeric threshold. Therefore, the device is exempt from stand-alone SAR test requirements.



## Appendix A - Conducted power

EUT: Op Condition: Comment: Remark:

HG05124A-US-TX Operated, TX Mode 3 VDC NA



Ref Level 31.00 dB	m Offset 1.00 dB 🖷	RBW 100 kHz			
Att 50 d	iB SWT 19.1 µs 🕳	VBW 300 kHz M	Mode Auto FFT		
1Rm Max					
			M1[1]		2.49 dBr .600 MH
20 dBm		_		433.91	000 MH
10 dBm		-			
		ML			
0 dBm					
-10 dBm				· · · · · · · · · · · · · · · · · · ·	
10 dbiii					
-20 dBm		_			
-30 dBm					
-40 dBm					
-40 UBIII-					
-50 dBm					
-60 dBm					
CF 433.92 MHz		501 pts		Span	1.0 MHz
larker	Muslus 1		Function	Currentian Description	
Type Ref Trc M1 1	X-value 433.916 MHz	-2.49 dBm	Function	Function Result	

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