

Prüfbericht-Nr.: <i>Test Report No.:</i>	50085893 001	Auftrags-Nr.: <i>Order No.:</i>	154243722	Seite 1 von 7 <i>Page 1 of 7</i>
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	52195561	Auftragsdatum: <i>Order date:</i>	26.04.2017	
Auftraggeber: <i>Client:</i>	AXENT Corporation Ltd. 3 Musick, Irvine CA 92618 USA			
Prüfgegenstand: <i>Test item:</i>	Tankless toilet (Remote Controller)			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	Hi-Touch FCC ID: 2AL4GHI-TOUCH			
Auftrags-Inhalt: <i>Order content:</i>	Complete test			
Prüfgrundlage: <i>Test specification:</i>	FCC KDB # 447498 D01 V06			
Wareneingangsdatum: <i>Date of receipt:</i>	05.05.2017	Please refer to the External Photos		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A000540881-006			
Prüfzeitraum: <i>Testing period:</i>	Refer to test report			
Ort der Prüfung: <i>Place of testing:</i>	MRT Technology(Suzhou) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
11.07.2017 <i>Date</i>	Elliot Zhang / Assistant Project Manager <i>Name / Stellung</i> <i>Name / Position</i>	11.07.2017 <i>Date</i>	Shi Li / Department Manager <i>Name / Stellung</i> <i>Name / Position</i>	
	Unterschrift <i>Signature</i>		Unterschrift <i>Signature</i>	
Sonstiges / Other				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: <i>Legend:</i>	1 = sehr gut <i>1 = very good</i> 2 = gut <i>2 = good</i> P(ass) = entspricht o.g. Prüfgrundlage(n) <i>P(ass) = passed a.m. test specification(s)</i>	3 = befriedigend <i>3 = satisfactory</i> F(ail) = entspricht nicht o.g. Prüfgrundlage(n) <i>F(ail) = failed a.m. test specification(s)</i>	4 = ausreichend <i>4 = sufficient</i> N/A = nicht anwendbar <i>N/A = not applicable</i>	5 = mangelhaft <i>5 = poor</i> N/T = nicht getestet <i>N/T = not tested</i>
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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TEST SUMMARY

2.2.1 EVALUATION FOR 2411MHZ FSK TRANSMITTER
RESULT: Pass

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1. General Product Information

1.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a remote controller which using a 2.4GHz wireless module to control the intelligent toilet.

The aim of this report is to evaluate the RF Exposure of the EUT.

For details refer to the User Manual and Circuit Diagram.

1.2 Ratings and System Details

Table 1: Technical Specification of EUT

General Description of EUT	
Product Name:	Tankless toilet (Remote Controller)
Model No.:	Hi-Touch
Rated Voltage:	DC 4.5V (3*AAA)
2.4GHz Wireless module	
Frequency:	2411MHz
Modulation Type:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi

2. RF Exposure

2.1 FCC Requirement and Limit

According to FCC KDB # 447498 D01 V06, Clause 4.3.1

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

$$\frac{(\text{max. power of channel, including tune - up tolerance, mW})}{(\text{min. test separation distance, mm})} \times \sqrt{f(\text{GHz})}$$

≤ 3.0 , for 1-g SAR, and ≤ 7.5 , for 10-g extremity SAR

2.2 FCC Evaluation Results

2.2.1 Evaluation for 2411MHz FSK Transmitter

RESULT:**Pass**

According to the RF test report No. 50085892 001 issued by TÜV Rheinland (Shanghai) Co., Ltd. And the maximum conducted output power declared in the operation description.

The Max EIRP is:

Table 2: Evaluation for 2411MHz FSK Transmitter

Frequency [GHz]	Maximum EIRP [dBm]	Maximum EIRP [mW]
2.411	-16.0	0.025118864

And for the frequency 2.411GHz, the SAR test exclusion thresholds at the test separation distance 5mm is,

1-g SAR test exclusion thresholds = 9.660345383mW

10-g SAR test exclusion thresholds = 24.15086346mW

Conclusion

The device is excluded for SAR test and complies with the FCC exposure requirements since the maximum conducted peak output power is lower than the SAR test exclusion thresholds.

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