

RF Exposure Evaluation Report

Product : Smart Analyzer
Trade mark : Schwarzkopf Professi
Model/Type reference : v1.1
Serial Model : /
Report Number : EED39O82078705R2
FCC ID : 2AV4ZA161902
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Test Standards	Result
☒ 47 CFR Part 1.1307	PASS
☒ 47 CFR Part 1.1310	
☒ 47 CFR Part 2.1093(portable devices)	
☒ 447498 D01 General RF Exposure Guidance v06	

Prepared for:

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EED39O820787

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Modification Record

No.	Last Report No.	Modification Description
1	EED39O82078705	First report
2	EED39O82078705R2	Change Sample Type

Note: This testing report displaces the original report of EED39O82078705, and the original one EED39O82078705 was invalid since the date of this testing report released.

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1. General Information

1.1. Client Information

Applicant:	Henkel AG & Co. KGaA
Address of Applicant:	40191 Düsseldorf, Germany
Manufacturer:	Henkel AG & Co. KGaA
Address of Manufacturer:	40191 Düsseldorf, Germany
Factory:	Henkel AG & Co. KGaA
Address of Factory:	40191 Düsseldorf, Germanyd

1.2. General Description of EUT

Product Name:	Smart Analyzer
Model No.(EUT):	v1.1
Trade Mark:	Schwarzkopf Professi
EUT Supports Radios application:	Bluetooth V4.2 BLE
Power Supply:	Model No: SYS1561-1105 Input: AC100-240V 1.0A, 50/60Hz Output: DC 5.0V 2.1A
Sample Received Date:	2023.02.10
Sample tested Date:	2023.02.22~2023.03.21

1.3. Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth LE4.2
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	portable device
Test Software of EUT:	Direct test mode (manufacturer declare)
Antenna Type:	Chip antenna
Antenna Gain ^① :	2.0dBi
Test Voltage:	DC 3.7V

Note: 1 The antenna gain is provided by the client and we Centre Testing International (Suzhou) CO., LTD. test lab is not responsible for the accuracy of the antenna gain information.

2. SAR Evaluation

2.1. RF Exposure Compliance Requirement

2.1.1. Limits

According to KDB447498 D01: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 24 where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
- If the test separation distance (antenna-user) is < 5 mm, 5 mm is used for excluded SAR calculation

2.1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.1.3. EUT RF Exposure Evaluation

Wireless Interface		Bluetooth
Tune-up Maximum power (dBm)		5
Tune-up Maximum rated power (mW)		3.16
Body	Antenna to user (mm)	5
	Frequency (GHz)	2.402
	Test result	0.98
	SAR exclusion threshold	3

Per KDB 447498 D01v06 exclusion thresholds is $0.98 < 3$, RF exposure evaluation is not required.

*** End of Report ***

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