

Test Report

No. 1-2210-25-01-14_TR1-R01

March 19. 2026

Applicant	Renesas Design Netherlands B.V.
Product	SmartBond Multi-Core Dual Mode Bluetooth/Bluetooth LE 6.0 Module
Model	DA14870MOD (DA14870MOD-SF01; DA14870MOD-DF01)
Tested Technology	Bluetooth, Bluetooth LE
Test Standard	FCC 47 CFR Part 2

Verdict **TEST EXEMPTION FULFILLED**

The test results apply only to the equipment specified in this document.

This test report is electronically signed and valid without handwritten signature.
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1. Disclaimer

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2. Document history

2.1. Current release

Release No.: R01
Date of release: March 19. 2026
Applied changes: Initial release

2.2. Previous releases

Version	Applied change	Date of release
n/a		

3. Test laboratory

3.1. Contact information

cetecom advanced GmbH
Untertuerkheimer Str. 6-10
66117 Saarbruecken
Germany

3.2. Involved test locations

Saarbrücken Lab

Untertürkheimer Strasse 6 – 10
66117 Saarbrücken
Germany

3.3. Subcontracted laboratories

None.

3.4. Laboratory listings and recognitions

	Saarbrücken	Essen
FCC	DE0002	DE0003
ISED	DE0001 3462C	DE0001 3462D

4. Client information

4.1. Applicant

Name: Renesas Design Netherlands B.V.
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Contact Person: Steven Leussink
Contact Person's Email: steven.leussink.wx@renesas.com

4.2. Manufacturer

Name: China Dragon Technology Limited
Address: CHINA, 518104 Baoan District, Shenzhen City, 3rd Floor, Building B4, Haosan First Industry Park, No.253, Nanpu Road, Xinqiao Street
Contact Person: --
Contact Person's Email: n/a

5. Test sample information

The data about the test samples is given/supplied by the customer and not under control by cetecom advanced GmbH.

5.1. General Information

5.1.1. General Data of Main EUT as Declared by Applicant

FCC ID

Y82-DA14870MOD

6. Measurement details

6.1. Test methodology

The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2018-03) by the Deutsche Akkreditierungsstelle GmbH (DAkkS).

The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number D-PL-12047-01-00.

Test method, standard, rule	Description
FCC 47 CFR Part 2	Federal Communications Commission, 47 code of federal regulations, Part 2: General Rules & Regulations for Equipment Authorisation

7. SAR test exclusion (KDB 447498 D01 General RF Exposure Guidance v06)

7.0.1. 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

a) 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:

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

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

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.

b) 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:

1) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f_{(\text{MHz})}/150)]\}$ mW, for 100 MHz to 1500 MHz

2) $\{[\text{Power allowed at numeric threshold for 50 mm in step a)}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\}$ mW, for > 1500 MHz and ≤ 6 GHz

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{(\text{MHz})})]$

For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and

100 MHz is multiplied by $\frac{1}{2}$

SAR measurement procedures are not established below 100 MHz.

MHz	5	10	15	20	25	mm
150	49	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

7.0.2. Results

Technology	Note	Frequency [MHz]	min. safety Distance	Threshold $1g$	Powerlimit [mW]	P_{max} [dBm]	P_{max} [mW]	Limit [%]
BT LE	A	2450.00	15	3	28.75	13.40	21.88	76.10%
BT EDR	B	2450.00	15	3	28.75	13.30	21.38	74.37%
BT LE	A	2450.00	5	7.5	23.96	13.40	21.88	91.32%
BT EDR	B	2450.00	5	7.5	23.96	13.30	21.38	89.24%

Separate Body/Limb evaluation with differing distances have been evaluated to comply with differing use-cases of the EUT

Value Explanation

Output Power	The larger of the maximum conducted power or equivalent isotropic radiated power (EIRP), source-based and time-averaged.
Limit	SAR-based threshold in mW.
Limit %	Output Power / Limit

Notes & References

#	Document	Document Type	Additional Information
A	1-2210-25-01-07_TR1-R01	cetecom advanced test report	pg 24, cond. 11.8 dBm, Gain 1.6 dBi
B	1-2210-25-01-06_TR1-R01	cetecom advanced test report	Pg. 25, cond. 11.7 dBm, Gain 1.6 dBi

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