经续检验
SLG-CPC Testlaboratory

TEST REPORT

Report Number. ..... :	91067-25-72-25-PP002	
Date of issue..... :	2025-11-27	
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Approved by (+signature) ..... :	Jason	Jason gao
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Applicant's name ..... :	VAGARYLIGHT CO., LIMITED	
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Manufacturer's name ..... :	Guangdong VagaryLight Smart Technology Co.Ltd	
Address..... :	5th FL, No.61 Xinxing Rd, Wusha Vil, Henglan Town, Zhongshan, Guangdong Prov.	
Factory's name ..... :	Guangdong VagaryLight Smart Technology Co.Ltd	
Address..... :	5th FL, No.61 Xinxing Rd, Wusha Vil, Henglan Town, Zhongshan, Guangdong Prov.	
Standard(s) ..... :	§15.247(i), §2.1093	
Test item description ..... :	Smart Tag	
Trade Mark ..... :	N/A	
Model/Type reference ..... :	NLT-30, NLT-30A, NLT-30B, NLT-30C, NLT-30D, NLT-30E	
FCC ID ..... :	2BRYI-NLT-30	
Date of receipt of test item..... :	2025-08-14	
Date (s) of performance of test:	2025-08-15 to 2025-08-25	
Summary of Test Results ..... :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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SLG-CPC Testlaboratory Co., Ltd. 经续检验

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Modified History

Report No.	Revision Date	Summary
91067-25-72-25-PP002	2025-11-27	Original Version

1. EUT Specification

Characteristics	Description
Product:	Smart Tag
Model Number:	NLT-30, NLT-30A, NLT-30B, NLT-30C, NLT-30D, NLT-30E (All models have the same wireless module PCB, RF chip structure circuit diagram; All tests were performed on model NLT-30)
Device Type:	Bluetooth V5.3
Data Rate:	1Mbps or 2Mbps for GFSK modulation
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 channels
Transmit Power Max:	-1.70 dBm
Antenna Gain:	-1.30 dBi
Power supply:	Input: DC 3V by battery
Evaluation applied:	☐MPE Evaluation ☒SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

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

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- 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

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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

3. Measurement Result

modulation	Transmit Frequency (MHz)	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
BLE: GFSK(1M)	2402	-1.70	±1	-0.70	0.263825	3
	2441	-2.15	±1	-1.15	0.239731	3
	2480	-1.72	±1	-0.72	0.266843	3
BLE: GFSK(2M)	2402	-1.82	±1	-0.82	0.256635	3
	2441	-2.28	±1	-1.28	0.232662	3
	2480	-1.98	±1	-0.98	0.251337	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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