

TEST REPORT

Product Name : Bluetooth MODULE
Brand Mark : RF-STAR
Model No. : RF-BM-BG22A1
FCC ID : 2ABN2- BG22A1
Report Number : BLA-EMC-202012-A3402
Date of Sample Receipt : 2020/12/12
Date of Test : 2020/12/12 to 2020/12/30
Date of Issue : 2020/12/30
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
: 447498
Test Result : Pass

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REPORT REVISE RECORD

Version No.	Date	Description
00	2020/12/30	Original

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TABLE OF CONTENTS

1	TEST SUMMARY	4
2	LIMITS	5
2.1	EUT RF EXPOSURE EVALUATION	6

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass

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2 LIMITS

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, where

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

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

2.1 EUT RF EXPOSURE EVALUATION

Operational Mode: BLE (GFSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power(dBm)	Maximum tune-up Power(mW)	Calculated value	Exclusion threshold
2402MHz	0.84	1	1.84	1.53	0.47	3
2442MHz	0.58	1	1.58	1.44	0.45	3
2480MHz	0.25	1	1.25	1.33	0.42	3
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

----END OF REPORT----

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