

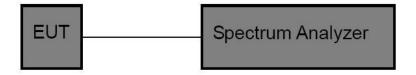
Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 26 of 71

6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)			
Test Limit	≥500kHz	Anbotek	Aupo, by	

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 100kHz, VBW≥3*RBW

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
 - 5. Repeat until all the rest channels are investigated.

6.4. Test Data

Pass

Please refer to Appendix A of the Appendix Test Data.







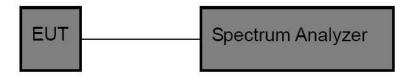
Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 27 of 71

7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (e)			10	potek	Anbore	by.
Test Limit	8dBm/3KHz	rek abote	k Vupo,	- P	u. Lotek	Anboten	Pupp

7.2. Test Setup



7.3. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW ≥ 3*RBW, Span = 1.5xDTS BW
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Pass

Please refer to Appendix D of the Appendix Test Data.







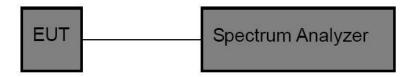
Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 28 of 71

8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
	In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the
Test Limit	100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted
	bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

- 1. Set the RBW = 100KHz.
- 2. Set the VBW = 300KHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.

8.4. Test Data

Pass

Please refer to Appendix E&F of the Appendix Test Data.







Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 29 of 71

9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	1) 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
	2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

9.2. Antenna Connected Construction

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is 3.97dBi . It complies with the standard requirement.





Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 30 of 71

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test



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Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 31 of 71





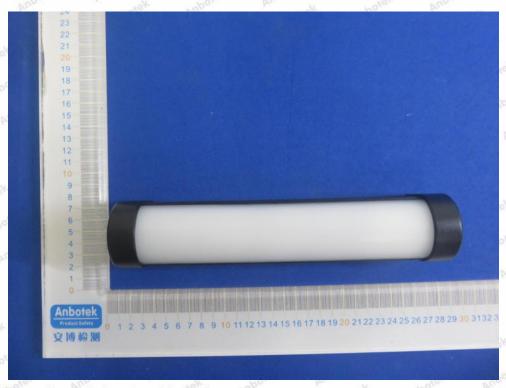




Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 32 of 71

APPENDIX II -- EXTERNAL PHOTOGRAPH





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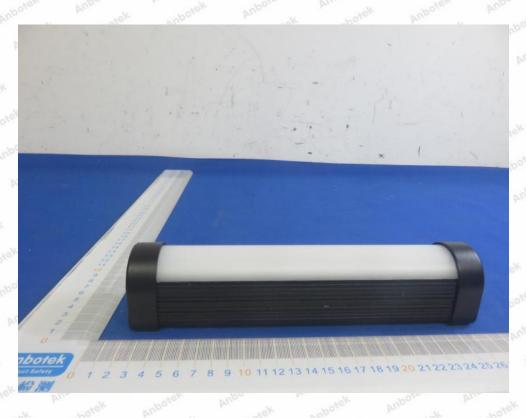






Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 33 of 71





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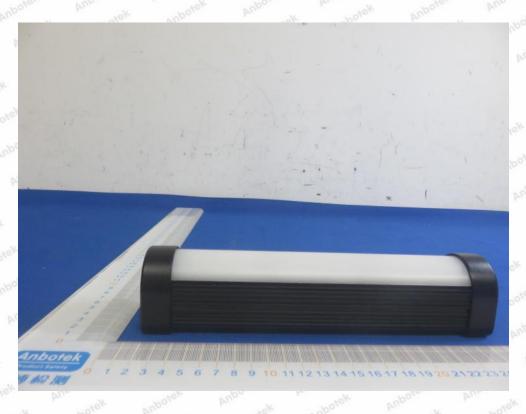






Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 34 of 71





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Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 35 of 71





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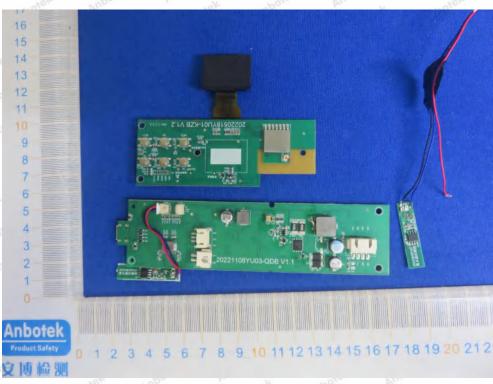




Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 36 of 71

APPENDIX III -- INTERNAL PHOTOGRAPH





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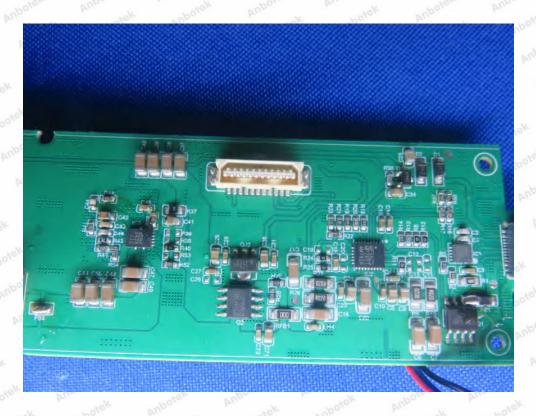






Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 37 of 71





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Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 38 of 71





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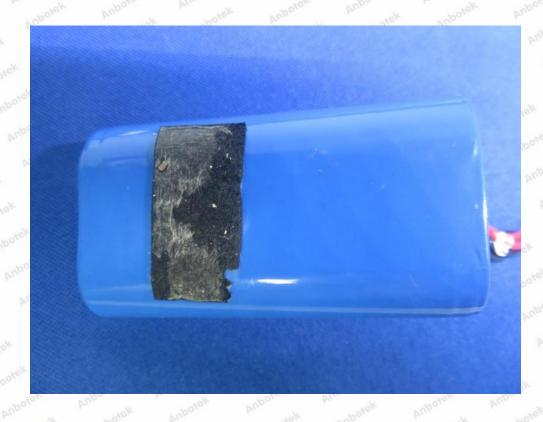






Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 39 of 71





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Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 40 of 71





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Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 41 of 71

Appendix Test Data

Report No.:	18220WC20176001	Test Sample No.:	1-2-2
Start Test Date:	2022.8.4	Finish Test Date:	2022.8.24
Test Engineer:	Zony. He	Auditor:	Edward Pan
Temperature:	26.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa	abotek Anbotek A	inbor Anbotek

Appendix A: DTS Bandwidth

Test Result

TestMode Antenna	Frequency[MHz]	DTS BW	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict	
			[MHz]				
bu.	bin, stak vup	2402	0.678	2401.690	2402.368	≥0.5	PASS
BLE_1M	Ant1	2440	0.662	2439.700	2440.362	≥0.5	PASS
potek Anl	O. 1	2480	0.668	2479.696	2480.364	≥0.5	PASS
hotek	kotek Inbote	2402	1.345	2401.380	2402.725	≥0.5	PASS
BLE_2M An	Ant1	2440	1.310	2439.405	2440.715	≥0.5	PASS
Anbo	botel	2480	1.365	2479.380	2480.745	≥0.5	PASS





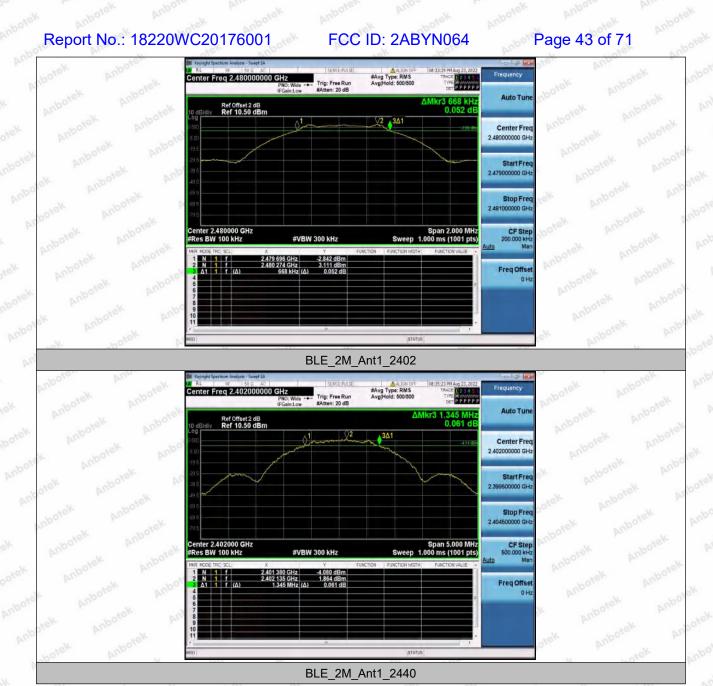
Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 42 of 71

Test Graphs























Report No.: 18220WC20176001 FCC ID: 2ABYN064 Page 45 of 71

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
ek Anb	b. bo	2402	1.0216	2401.5157	2402.5373	A11	PASS
BLE_1M Ant1	2440	1.0088	2439.5275	2440.5363	Pun	PASS	
	anbotak	2480	1.0042	2479.5281	2480.5323	otek Anbi	PASS
BLE_2M Ant1	hotek	2402	2.0523	2401.0061	2403.0584	hotek p	PASS
	Ant1	2440	2.0477	2439.0188	2441.0665	niek.	PASS
	Anbo	2480	2.0484	2479.0081	2481.0565	Anba	PASS

