

Anritsu

Bluetooth low energy Test Report

Test Set Serial Number: 001022002

Date: 3/29/2022

Test Set Firmware: 5.00.017

Time: 15:28:11

Overall Result: PASSED

Packet Length: 255

Symbol Rate: 2 Mbps

Output Power

	<u>Low</u>	<u>Medium</u>	<u>High</u>	<u>Limits</u>
Average Power	-1.05 dBm	-0.79 dBm	-0.96 dBm	
Max Power	-1.04 dBm	-0.79 dBm	-0.95 dBm	≤ 10 dBm
Min Power	-1.06 dBm	-0.81 dBm	-0.98 dBm	≥ -20 dBm
Peak to Average	0.43 dB	0.43 dB	0.42 dB	≤ 3 dB
Total Packets Failed	0	0	0	
Total Packets Tested	10	10	10	
Result	Passed	Passed	Passed	

Carrier Frequency Offset and Drift

	<u>Low</u>	<u>Medium</u>	<u>High</u>	<u>Limits</u>
Average Frequency Offset	-3.1 kHz	-3.2 kHz	-3.2 kHz	
Max +ve Frequency Offset	1.9 kHz	1.9 kHz	1.4 kHz	≤ 150 kHz
Max -ve Frequency Offset	-8.2 kHz	-7.9 kHz	-7.0 kHz	≤ 150 kHz
Initial Drift Rate	5.70 kHz	4.76 kHz	4.22 kHz	< 23 kHz
Drift Rate	7.50 kHz	-6.85 kHz	5.54 kHz	< 20 kHz / 50 μs
Max Drift	-6 kHz	-5 kHz	5 kHz	< 50 kHz
Average Drift	2 kHz	1 kHz	1 kHz	
Total Packets Failed	0	0	0	
Total Packets Tested	10	10	10	
Overall Result	Passed	Passed	Passed	

Modulation Index

	<u>Low</u>	<u>Medium</u>	<u>High</u>	<u>Limits</u>
'F1avg'	470.2 kHz	477.2 kHz	481.0 kHz	450 kHz ≤ F1avg ≤ 550 kHz
'F1max'	494.1 kHz	505.9 kHz	504.7 kHz	
'F2avg'	473.2 kHz	476.8 kHz	475.1 kHz	
'F2max'	410.6 kHz	391.8 kHz	409.6 kHz	≥ 370 kHz
'F2max' Pass Rate	100.00 %	100.00 %	100.00 %	
F1/F2 Ratio	1.00	0.99	0.98	≥ 0.8
Total Packets Failed	0	0	0	
Total Packets Tested	20	20	20	

Result	Passed	Passed	Passed
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Receiver Sensitivity

	<u>Low</u>	<u>Medium</u>	<u>High</u>	<u>Limits</u>
Packet Error Rate	0.00 %	0.00 %	0.00 %	≤ 30.8 %
Total Packets Received	500	500	500	
Total Packets Tested	500	500	500	
Result	Passed	Passed	Passed	