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Associates Inc.

Consulting Testing Training

3551 Moore-Duncan Highway, Moore, SC 29369 Tel (864) 574-6415 Facsimile (864) 576-4992

E-mail: sfowler@sfowler.com **Web Site:** <http://www.sfowler.com>

Carl Jones
Technical Director

Noble Biomaterials, Inc
300 Palm Street
Scranton, PA 18505

February 10, 2018

Dear Carl:

Report attached

Please let us know if we may be of further assistance.

Sincerely

,

Stephen L. Fowler



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EMI Shielding per Mil-PRF-81705D

All tests at 72°F, 50% RH

Three tests per specimen. The table is the average of the test results.

Style 000000 Lot 000-0 Shielding Fabric	
Frequency MHz	Shielding
30	-89.3 dB
50	-81.2 dB
150	-43.7 dB
500	-41.0 dB
1,000	-47.7 dB
2,500	-48.0 dB
5,000	-41.0 dB
10,000	-44.5 dB
18,000	-33.7 dB

Explanation of Fabric Shielding for Personal Use

The term dB stands for deci Bell. It is a unit of attenuation for both power and voltage. In these tests, we are measuring the power attenuation. In other words, the amount of power that is blocked or shielded by the material to radio frequencies. The following chart shows how dB indicates the shielding ability of the material.

dB Attenuation	Power Getting Through Material	% Attenuation
0	100 %	0 %
3	50%	50%
10	10 %	90 %
20	1 %	99 %
30	0.1%	99.9 %
40	0.01 %	99.99 %



Stephen L. Fowler

February 10, 2018

The data and conclusions of this report are based upon the information and samples supplied to Fowler Associates for the tests described herein. Product users should make his or her own tests to determine the suitability of the information and conclusions herein stated or implied for their intended use, and shall assume all risk and liability in connection therein.