



Silent Pocket®

MULTISHIELD®

MULTISHIELD® TESTING: MIL-STD-188-125-2



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REPORT NO.: 2106-125EB
REVISION: A

SHIELDING EFFECTIVENESS TEST REPORT FOR SILENT POCKET® MULTISHIELD® FARADAY MATERIAL

Configuration

Testing performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations, and settings used to complete the evaluation. The actual test parameters specified in the test data; this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation, indicated in the test data.

EUT		
Description		Manufacturer
Fabric Material Samples		SLNT Inc
Model Number	Part Number	Serial Number
N/A	N/A	N/A

Samples Tested	
SAMPLE	SAMPLE NAME
Sample 1	Double Layer
Sample 2	Triple Layer

EUT	
	
Fabric Material	



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Summary of Tests Performed & Results

Table 1 Tests Performed & Results

Report Paragraph	Test Description	Specification	Notes	Results
MIL-STD-188-125-2				
3.1	Shielding Effectiveness	MIL-STD-188-125-2	10kHz – 1GHz	Compliant



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Section 2 – References

2.1 Applicable Specifications

Reference Specification Title	MIL-STD-188-125-2 Department Of Defense Interface Standard High-Altitude Electromagnetic Pulse (Hemp) Protection for Ground-Based C4i Facilities Performing Critical, Time-Urgent Missions Part 2 Transportable Systems
Calibration Information	ANSI/NCSL Z540-3-2006 Calibration Laboratories and Measuring Test Equipment— General Requirements



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	<p>Shielding Effectiveness</p> <p>Sample Placed on Fixture</p>
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	<p>Shielding Effectiveness</p> <p>Sample Clamped on Fixture</p>
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Triple Layer





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Section 4 – Conclusion

- a) The Fabric Material Samples, Model Number: N/A; Part Number: N/A; Serial Number: N/A, were subjected to the following EMC Tests in accordance with MIL-STD-188-125-2 and the specifications as shown in Table 2:

Table 2 Tests Performed & Results

Test Description	Specification	Results
MIL-STD-188-125-2		
Shielding Effectiveness	MIL-STD-188-125-2	Compliant

- b) The Fabric Material Samples were returned to SLNT Inc after completion of the Shielding Effectiveness Test.



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MULTISHIELD® TESTING: IEEE 299-2006 (1 - 40GHZ)



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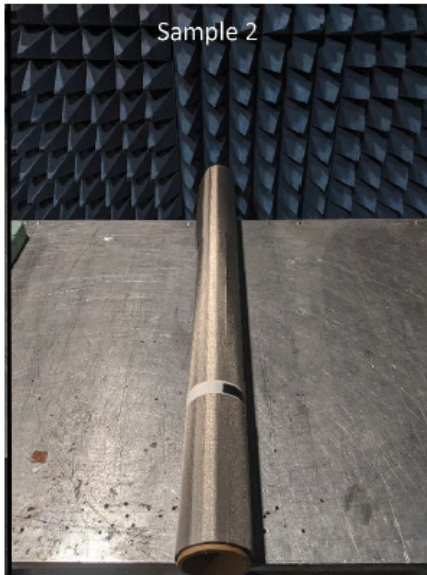
REPORT NO.: 2203-117EB-2
REVISION: B

SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Configuration

Testing performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations, and settings used to complete the evaluation. The actual test parameters specified in the test data; this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation, indicated in the test data.

EUT		
Description		Manufacturer
SLNT® Multishield® Faraday Material		SLNT, Inc
Model Number	Part Number	Serial Number
N/A	N/A	N/A
Notes		
A Single Layer was tested		

 <p>Sample 2</p>	EUT
	<p>SLNT® Multishield® Faraday Material</p>



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Summary of Tests Performed & Results

Table 1 Tests Performed & Results

Report Paragraph	Test Description	Specification	Notes	Results
IEEE 299-2006				
3.1	Shielding Effectiveness	IEEE 299-2006	1GHz-40GHz	Pass



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

3.1.3 Shielding Effectiveness Test Data

Shielding Effectiveness Data Sheet			
Customer:	SLNT, Inc		
Date:	5/2/22	Test Engineer:	M. Gennaro
Config. #:	1	Power:	N/A
		Job Site:	Keystone Compliance
Test Specifications			
Test Spec.:	IEEE 299-2006		
Test Data			
Test Parameters			
Start Frequency:	1GHz	Stop Frequency:	40GHz
		Step Size:	1GHz
EUT Operating Modes			
N/A			
Comments			
A Single Layer was tested			
Deviations From Test Standard			
None			
Results			
Compliant			



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Shielding Effectiveness Data Table

Frequency	Shielding Effectiveness	Frequency	Shielding Effectiveness
GHz	dB	GHz	dB
1	84.3	21	88.1
2	92.3	22	87.3
3	92.5	23	89.3
4	93.4	24	90.4
5	91.8	25	87.0
6	81.2	26	84.0
7	91.2	27	92.9
8	85.5	28	92.9
9	89.2	29	91.5
10	92.7	30	94.0
11	93.4	31	94.9
12	87.0	32	85.4
13	86.9	33	85.2
14	84.0	34	86.0
15	88.2	35	85.7
16	88.8	36	83.6
17	85.3	37	84.3
18	84.4	38	81.5
19	90.6	39	82.3
20	89.3	40	79.8

Data Table Additional Information
Sample Calculations
20dB = 10:1 Reduction 40dB = 100:1 Reduction 60dB = 1,000:1 Reduction 80dB = 10,000:1 Reduction 100dB = 100,000:1 Reduction
Common Mobile Phone Frequencies
2G/3G - 900MHz & 1.8GHz 4G - 1.8GHz & 2.6GHz 5G - 700MHz-2.5GHz, 28GHz & 39GHz WiFi - 2.4GHz & 5GHz Bluetooth - 2.4GHz NFC - 13.56MHz RFID - 125kHz, 134kHz, 433MHz & 860-960MHz



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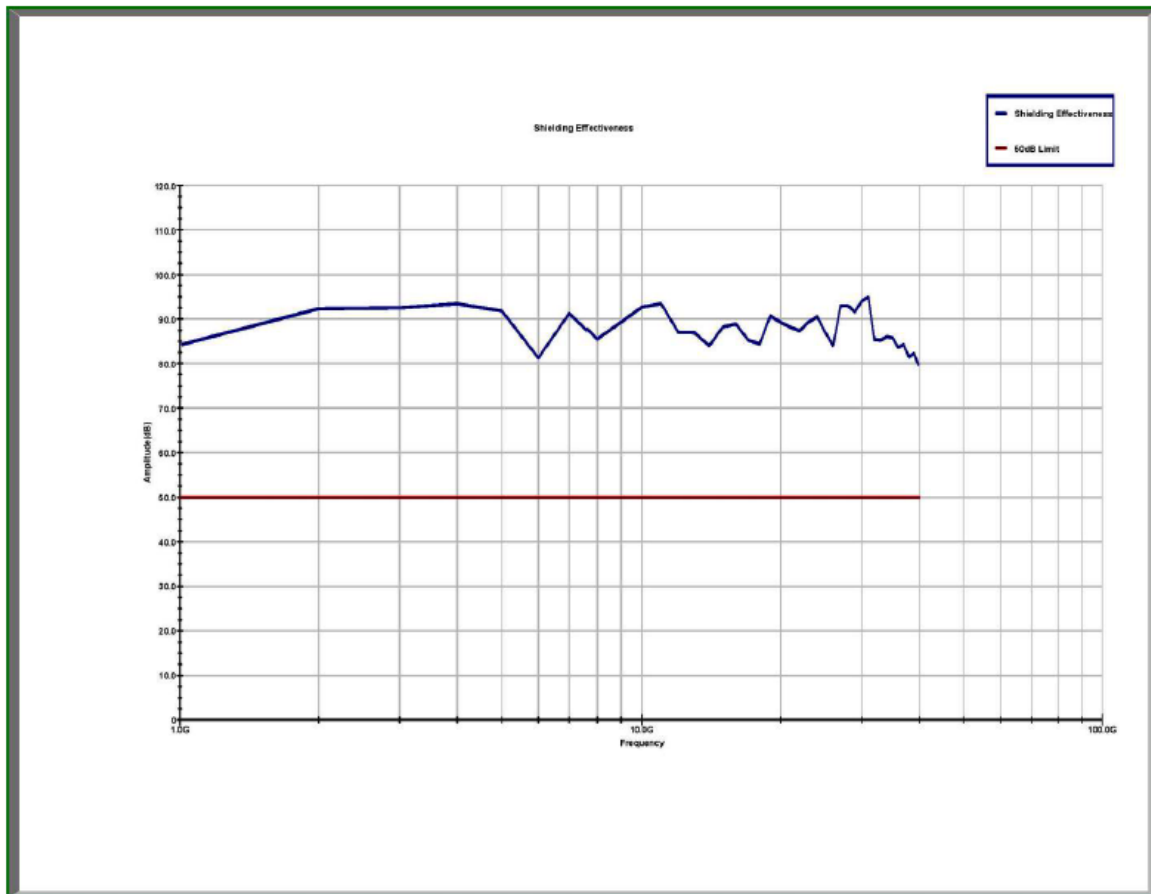


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Shielding Effectiveness Graph





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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

3.1.4 Shielding Effectiveness Test Setup Photographs

	<p>Shielding Effectiveness</p> <p>1GHz - 18GHz</p> <p>Receive</p>
--	--

	<p>Shielding Effectiveness</p> <p>1GHz - 18GHz</p> <p>Transmit</p>
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	<p>Shielding Effectiveness</p> <p>19GHz - 40GHz</p> <p>Receive</p>
--	---

	<p>Shielding Effectiveness</p> <p>19GHz - 26GHz</p> <p>Transmit</p>
---	--



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	<p>Shielding Effectiveness</p> <p>27GHz - 31GHz</p> <p>Transmit</p>
	<p>Shielding Effectiveness</p> <p>32GHz - 40GHz</p> <p>Transmit</p>



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Section 4 – Conclusion

- a) The SLNT® Multishield® Faraday Material, Model Number: N/A; Part Number: N/A; Serial Number: N/A, were subjected to the following EMC Tests in accordance with IEEE 299-2006 and the specifications as shown in Table 2:

Table 2 Tests Performed & Results

Test Description	Specification	Results
IEEE 299-2006		
Shielding Effectiveness	IEEE 299-2006	Pass

- b) The SLNT® Multishield® Faraday Material were returned to SLNT, Inc after completion of the Shielding Effectiveness Test.



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MULTISHIELD® USA BERRY COMPLIANT TESTING: IEEE 299-2006 (1 - 40GHZ)



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Configuration

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EUT		
Description		Manufacturer
SLNT® Multishield® USA Made Berry Compliant Faraday Material		SLNT, Inc
Model Number	Part Number	Serial Number
N/A	N/A	N/A
Notes		
A Single Layer was tested		





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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Summary of Tests Performed & Results

Table 1 Tests Performed & Results

Report Paragraph	Test Description	Specification	Notes	Results
IEEE 299-2006				
3.1	Shielding Effectiveness	IEEE 299-2006	1GHz-40GHz	Pass



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

3.1.3 Shielding Effectiveness Test Data

Shielding Effectiveness Data Sheet			
Customer:	SLNT, Inc		
Date:	5/2/22	Test Engineer:	M. Gennaro
Config. #:	1	Power:	N/A
		Job Site:	Keystone Compliance
Test Specifications			
Test Spec.:	IEEE 299-2006		

Test Data

Test Parameters			
Start Frequency:	1GHz	Stop Frequency:	40GHz
		Step Size:	1GHz
EUT Operating Modes			
N/A			
Comments			
A Single Layer was tested			
Deviations From Test Standard			
None			
Results			
Compliant			



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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Shielding Effectiveness Data Table

Frequency GHz	Shielding Effectiveness dB	Frequency GHz	Shielding Effectiveness dB
1	59.7	21	58.1
2	63.9	22	57.9
3	66.5	23	59.3
4	83.9	24	56.8
5	62.4	25	57.5
6	64.2	26	57.7
7	62.1	27	60.2
8	63.1	28	61.4
9	67.1	29	58.4
10	65.8	30	59.4
11	60.4	31	60.6
12	63.6	32	58.8
13	61.2	33	58.6
14	68.3	34	58.3
15	58.4	35	59.6
16	60.3	36	57.4
17	72.8	37	58.7
18	56.9	38	64.6
19	59.6	39	57.9
20	57.9	40	62.0

Data Table Additional Information

Sample Calculations

20dB = 10:1 Reduction
40dB = 100:1 Reduction
60dB = 1,000:1 Reduction
80dB = 10,000:1 Reduction
100dB = 100,000:1 Reduction

Common Mobile Phone Frequencies

2G/3G - 900MHz & 1.8GHz
4G - 1.8GHz & 2.6GHz
5G - 700MHz-2.5GHz, 28GHz & 39GHz
WiFi - 2.4GHz & 5GHz
Bluetooth - 2.4GHz
NFC - 13.56MHz
RFID - 125kHz, 134kHz, 433MHz & 860-960MHz



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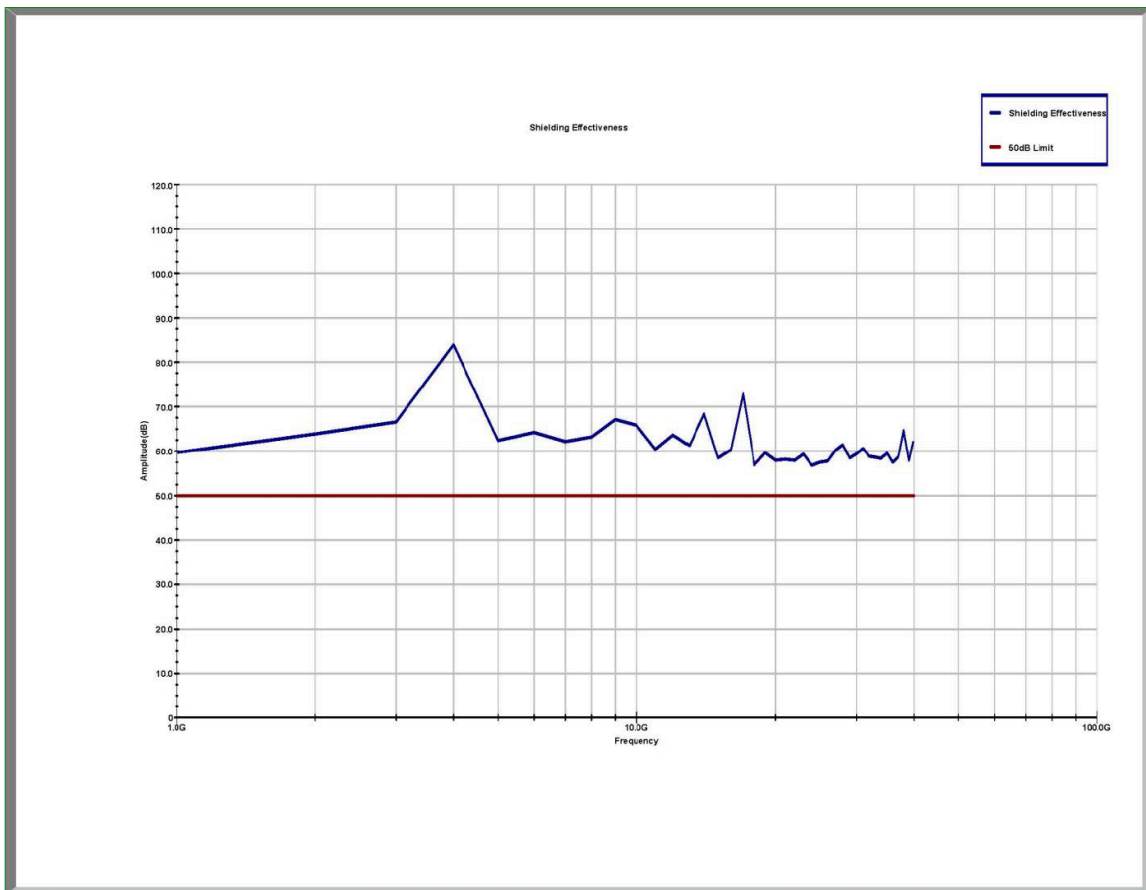


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Shielding Effectiveness Graph





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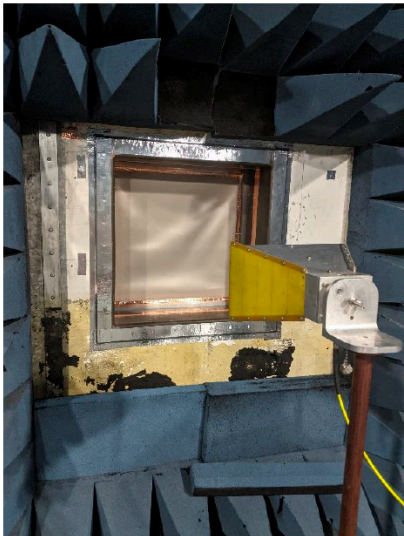
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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

3.1.4 Shielding Effectiveness Test Setup Photographs

	<p>Shielding Effectiveness</p> <p>1GHz - 18GHz</p> <p>Receive</p>
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	<p>Shielding Effectiveness</p> <p>1GHz - 18GHz</p> <p>Transmit</p>
---	--



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	<p>Shielding Effectiveness</p> <p>19GHz - 40GHz</p> <p>Receive</p>
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	<p>Shielding Effectiveness</p> <p>19GHz - 26GHz</p> <p>Transmit</p>
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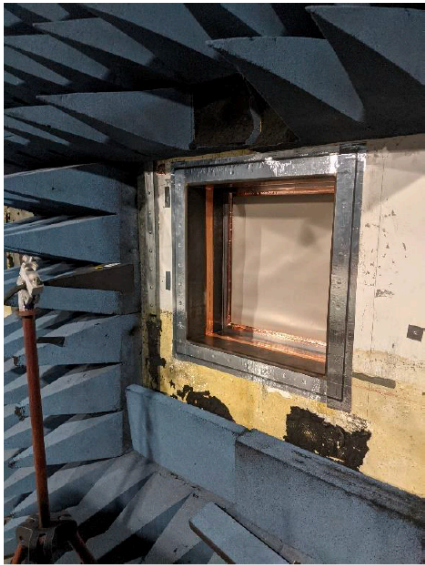
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	<p>Shielding Effectiveness</p> <p>27GHz - 31GHz</p> <p>Transmit</p>
--	--

	<p>Shielding Effectiveness</p> <p>32GHz - 40GHz</p> <p>Transmit</p>
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SHIELDING EFFECTIVENESS TEST REPORT FOR SLNT, INC

Section 4 – Conclusion

- a) The SLNT® Multishield® USA Made Berry Compliant Faraday Material, Model Number: N/A; Part Number: N/A; Serial Number: N/A, were subjected to the following EMC Tests in accordance with IEEE 299-2006 and the specifications as shown in Table 2:

Table 2 Tests Performed & Results

Test Description	Specification	Results
IEEE 299-2006		
Shielding Effectiveness	IEEE 299-2006	Pass

- b) The SLNT® Multishield® USA Made Berry Compliant Faraday Material were returned to SLNT, Inc after completion of the Shielding Effectiveness Test.



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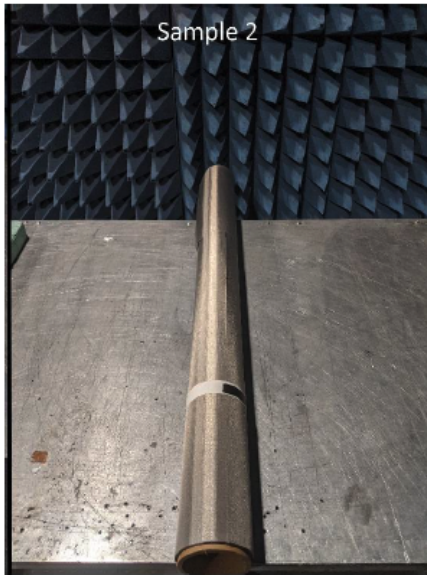
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EUT		
Description		Manufacturer
SLNT® Multishield® Faraday Material		SLNT, Inc
Model Number	Part Number	Serial Number
N/A	N/A	N/A
Notes		
A Single Layer was tested		

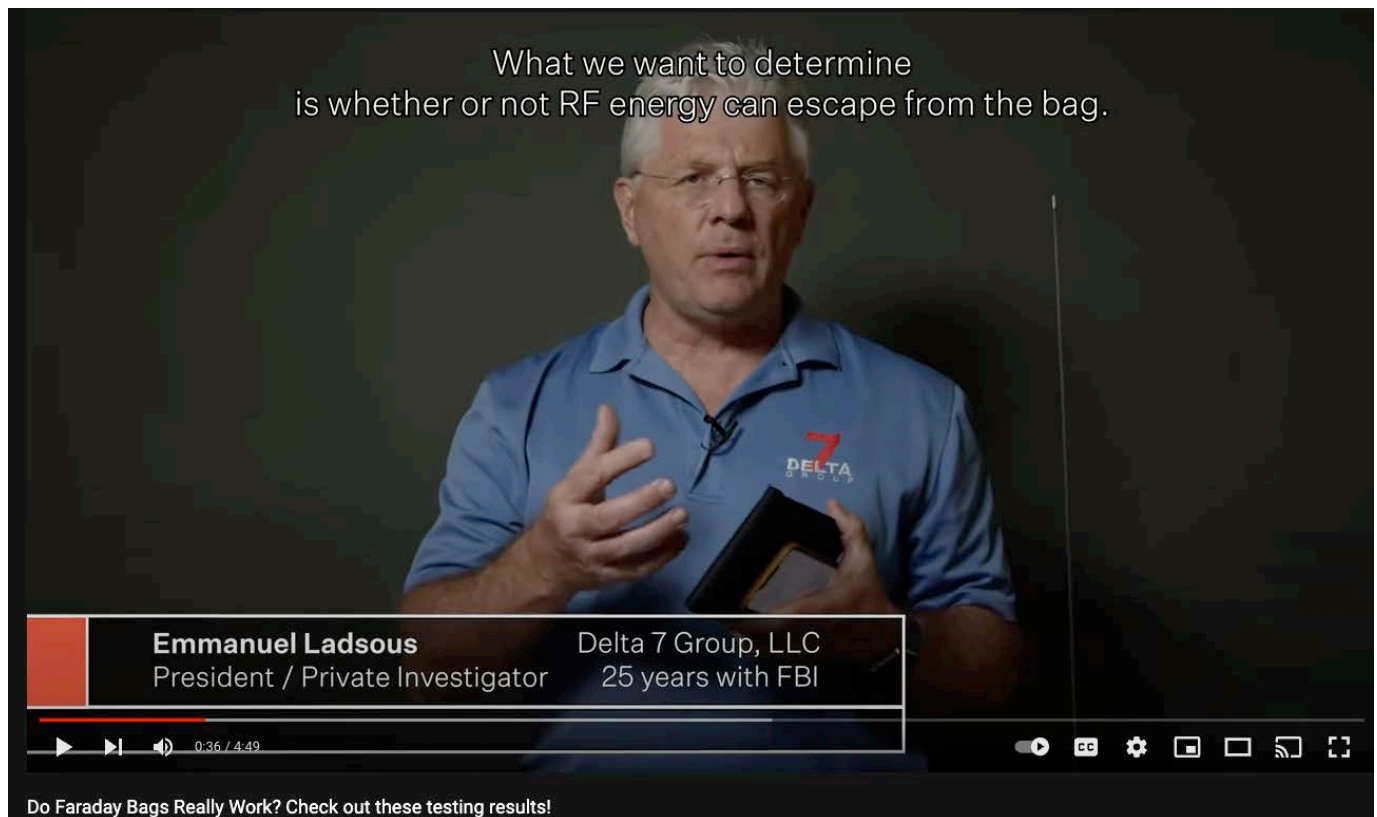
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EUT			
SLNT® Multishield® Faraday Material			



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SPECTRUM ANALYZER TESTING (FBI STANDARDS)



To ensure that our finished products meet the same standards as the standalone shielding - we enlisted the help and testing of a Third-Party Company that does all the testing for governmental agencies.

He tested on a REI OSCOR Green Spectrum Analyzer (10 kHz to 24 GHz) with a SPECTRATEK, 750 Milliwatt VHF Transmitter (@160MHz)

When watching the video above (or Here) you can see that the spectrum analyzer shows that the VHF transmitter is effectively blocked when inside any SLNT® Faraday Product.

This transmitter is 10x more powerful than a normal Bluetooth device.