

To : Shield Your Body - SYB

Date: 28/06/20

Att : Mr. R Blank

From : Doron Ben-David

Subject: Report # Y20SYB143TR EMR Protective laptop tray
Attenuation test

1. We performed an attenuation test for "EMR protective laptop tray" manufactured by Smart & Safe.
2. The tests were conducted, inside a semi-anechoic chamber in order to test with a low-level ambient interference.
3. The tray was tested for attenuation in the following frequencies:
 - Cellular + microwave - 650MHz-20GHz.
 - ELF – 3-30kHz.
4. **Conclusion:**
 - 4.1. The tray passed all the tests.
 - 4.2. The tray's Maximum attenuation was 98%.
 - 4.3. The Attenuation in ELF was 96%
 - 4.4. The tray's attenuation in all the tested frequencies were more than 90%
 - 4.5. The Average attenuation was more than 94%.
5. For detailed results and test setup – see Appendix A.

Best regards

Doron

Ben-David

Ordos

Technologies

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Appendix A – Test results

- Results**

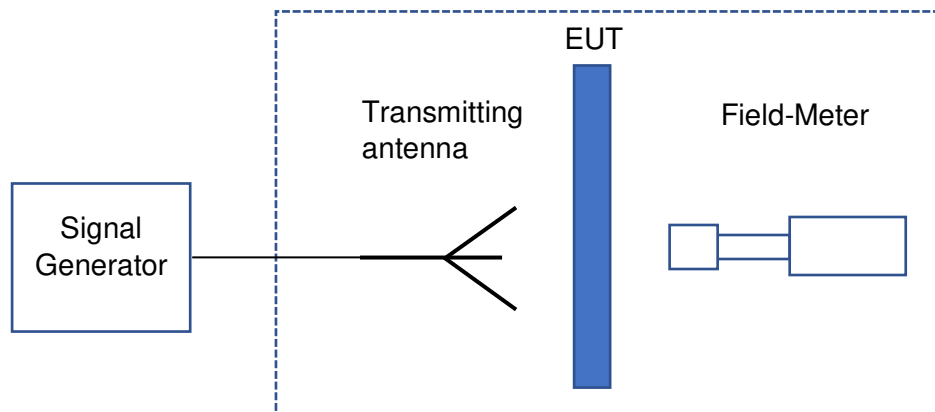
Tested frequency	Without the EMR (mG)	With EMR protective tray (mG)	Attenuation
ELF – 3-30kHz	1330	54	95.94%

Tested frequency (MHz)	Without the EMR (V/M)	With EMR protective tray (V/M)	Attenuation
650	19	1.8	90.53%
850	26.5	2.6	90.19%
900	23	1.6	93.04%
980	29.2	1.6	94.52%
1800	88	1.7	98.07%
2400	114	2.1	98.16%
5000	11.2	0.4	96.43%
7500	14.8	1.2	91.89%
10000	51.6	1.7	96.71%
15000	11	0.5	95.45%
20000	8.5	0.6	92.94%

- Equipment used**

<u>Instrument</u>	<u>Model</u>	<u>Manufacturer</u>
Signal Generator 100kHz-20GHz	N5183A	KeySight
Amplifier 20MHz-1GHz	GRF5027	GTCrf
Amplifier 1GHz-3GHz	5172	OPHIR
Field-meter	C.A 43	Chauvin-Arnoux
Antenna	APN101B	AEL Inc.
ELF meter	TM-192D	Tenmars

- Test setup



- Test setup Pictures

