



Complex Media Institute
Advanced Electromagnetic Laboratory

Microwave Laboratory Complex Media Institute

Complex Media Institute, Kheradmand St., Karim Khan Zand Blvd., Tehran, Iran
Postal Code : 1583773311

Report of Electromagnetic Shielding Properties Measurement

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The instrument identified below has been individually calibrated in compliance with the following standard:
ASTM D4935

Environment: Laboratory was maintained in a temperature-controlled environment with ambient conditions from 19° to 25° C, relative humidity less than 60%.

Test Type: EM Shielding Properties Measurement

Test Date: August 16-17, 19, 2023

DUT Identification:

Manufacturer: Mahar Mouj Tosea Sanaat Shargh (Pars shield Co.)

Contract No.: 1311-1402

Address

Model: Plexiglas

Sample Number/ID: 1311-1402-05-S-01(S1) to 1311-1402-05-S-07(S6)

Device Type: The Plexiglas's coated by material

Sample Characteristics: The black Plexiglas sheet

Comments: Measurement of Shielding Effectiveness in Frequency Range: 1.45–26.5 GHz

Main Equipment Used:

Make	Model	Name	Calibration Date
Agilent	N5222A	PNA Series Network Analyzer, 10MHz – 26.5GHz	Aug-2024
A-INFOMW	(510,340,159) WCAN (112, 90,62,42)WCAS	Standard Waveguide Shims, Lines &Adapters	
Rosenberger CMI	03CK10A X,P&K-11644A	RPC-3.5 Calibration Kit Mechanical Calibration Kits	

Technical Manager
Nasrin Bahari


Head of the Lab.
Seyed Bagher Noorbakhsh

Attested and Issued on August 19, 2023

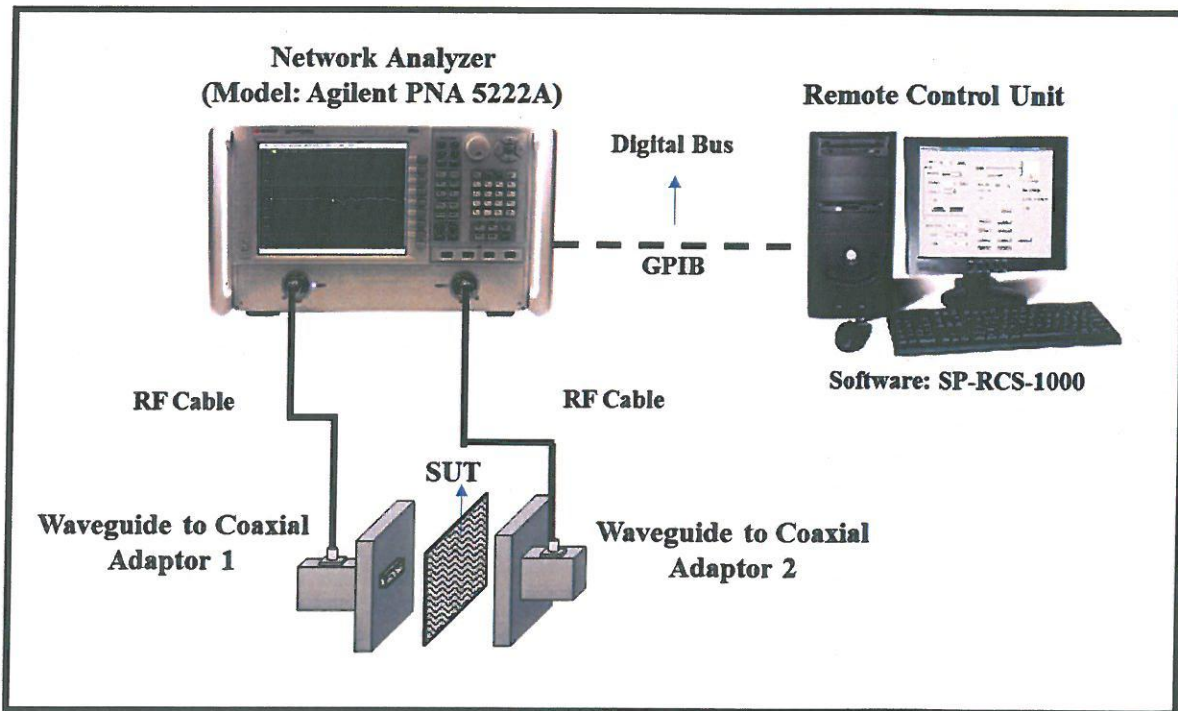
Certificate No. : CMI-LQS-F510- **S13111402_51**

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		Test Date: August 16-17, 19 2023
Test Report for EM Shielding Properties Measurement Manufactured: Mahar Mouj Tosea Sanaat Shargh (Pars shield Co.) Sample No: 6 Contract No: 1311-1402		

MEASUREMENT CONDITION

NUM	PARAMETER	VALUES	NUM	PARAMETER	VALUES
1	Transmitted Power	0dBm	3	Frequency Band	1.45 GHz -26.5 GHz
2	Time Domain Gating	Not Used	4	Frequency Point	1601

TEST SETUP:



<p>Q.C.</p> 	 Complex Media Institute Advanced Electromagnetic Laboratory Microwave Laboratory Complex Media Institute Complex Media Institute, Kheradmand St., Karim Khan Zand Blvd., Tehran, Iran Postal Code : 1583773311	<p>Page: 3 of 10 S13111402_51</p>
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Fig. 1: Test Setup

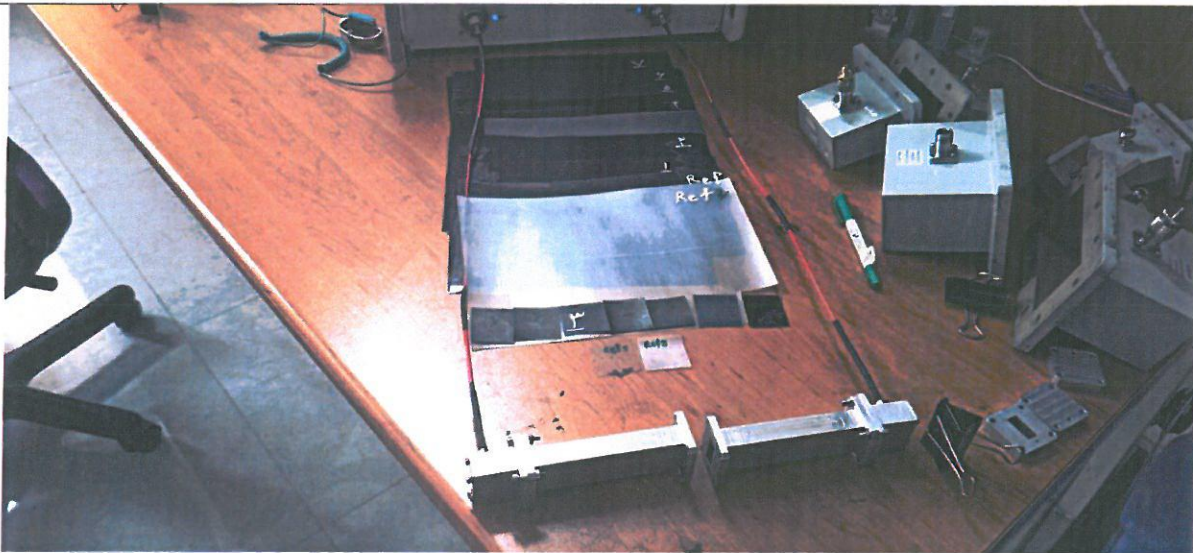


Fig. 2: Samples Under Test of 1311-1402-05-S-01(S1) to 1311-1402-05-S-07(S6), Metal Ref Plates

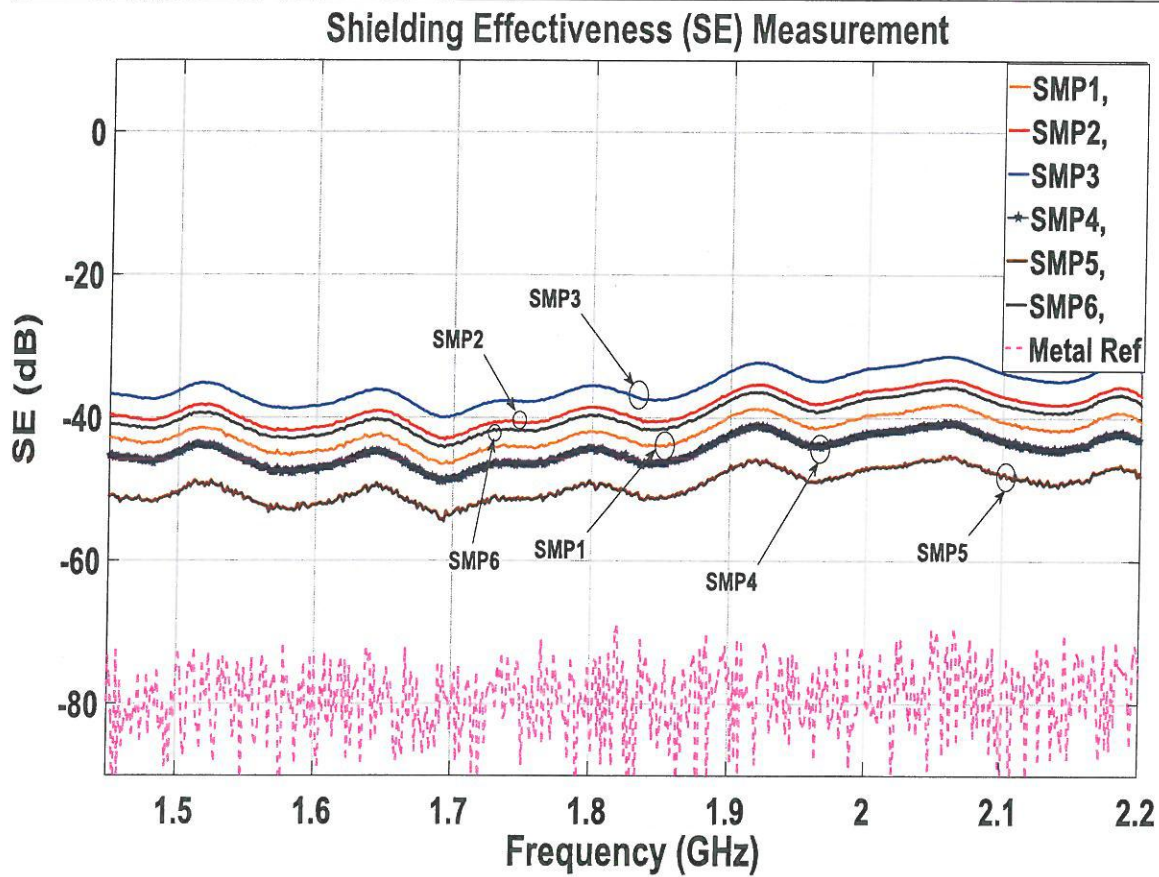


Fig. 3: The Shielding Effectiveness (SE) of SUT's and Ref Metal plate at 1.45 to 2.2 GHz (L-band)

Shielding Effectiveness (SE) Measurement

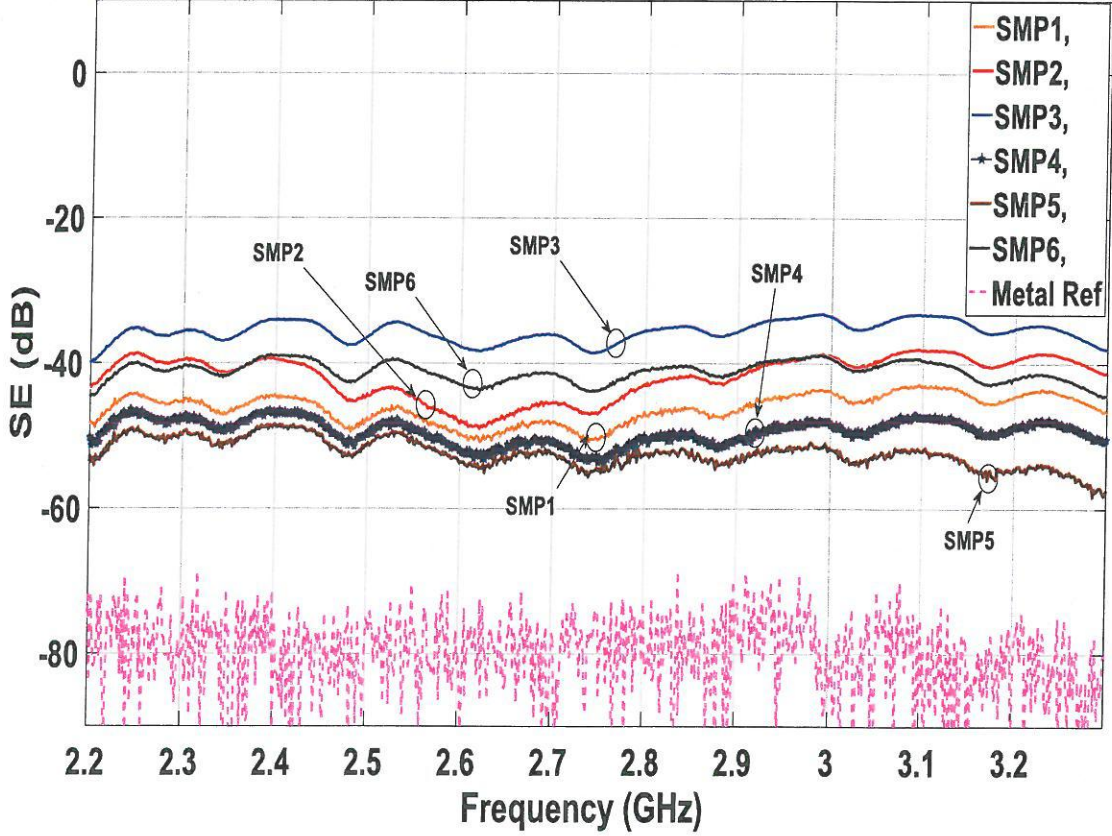


Fig. 4: The Shielding Effectiveness (SE) of SUT's and Ref Metal plate at 2.2 to 3.3 GHz (S-band)

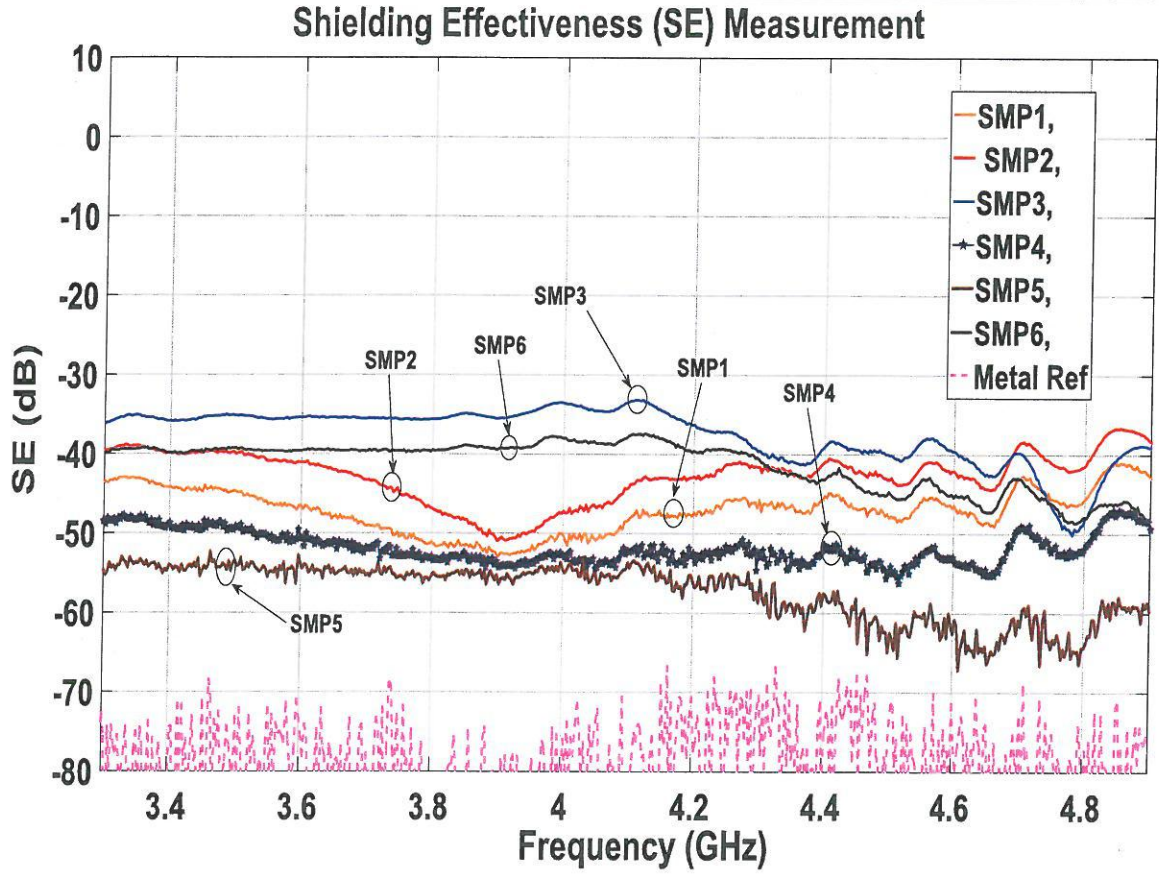


Fig. 5: The Shielding Effectiveness (SE) of SUT's and Ref Metal plate at 3.3 to 4.9 GHz (S&C-bands)

Shielding Effectiveness (SE) Measurement

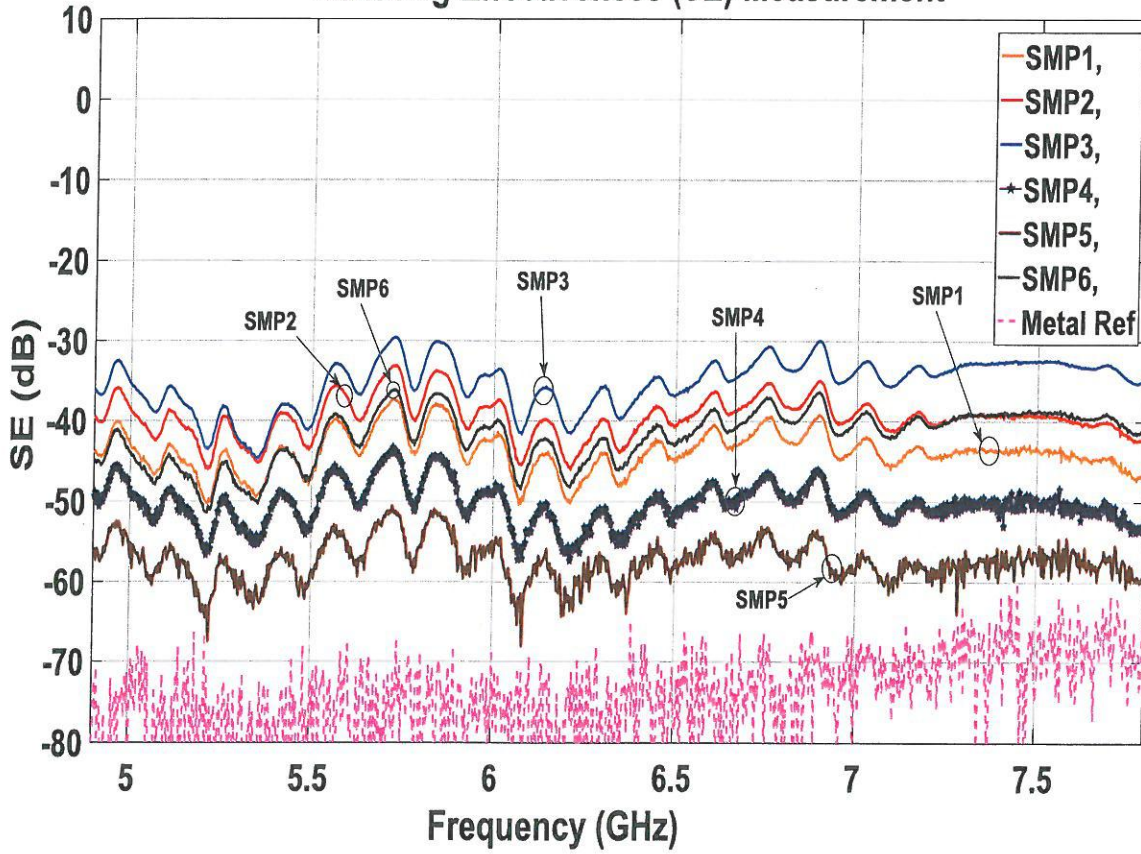


Fig. 6: The Shielding Effectiveness (SE) of SUT's and Ref Metal plate at 4.9 to 8 GHz (C-band)

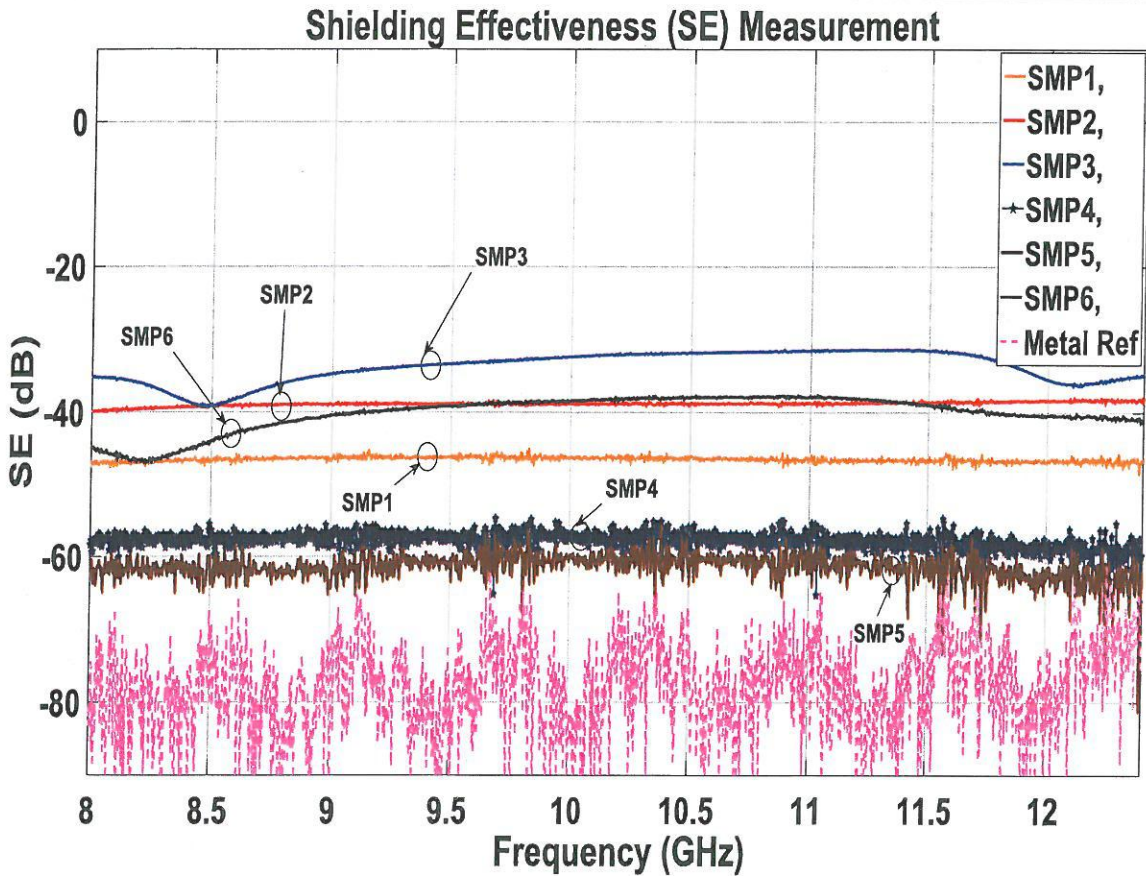


Fig. 7: The Shielding Effectiveness (SE) of SUT's and Ref Metal plate at 8 to 12.4 GHz (X-band)

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Test Date:
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2023

Test Report for EM Shielding Properties Measurement

Manufactured: **Mahar Mouj Tosea Sanaat Shargh (Pars shield Co.)** Sample No: **6** Contract No: **1311-1402**

Shielding Effectiveness (SE) Measurement

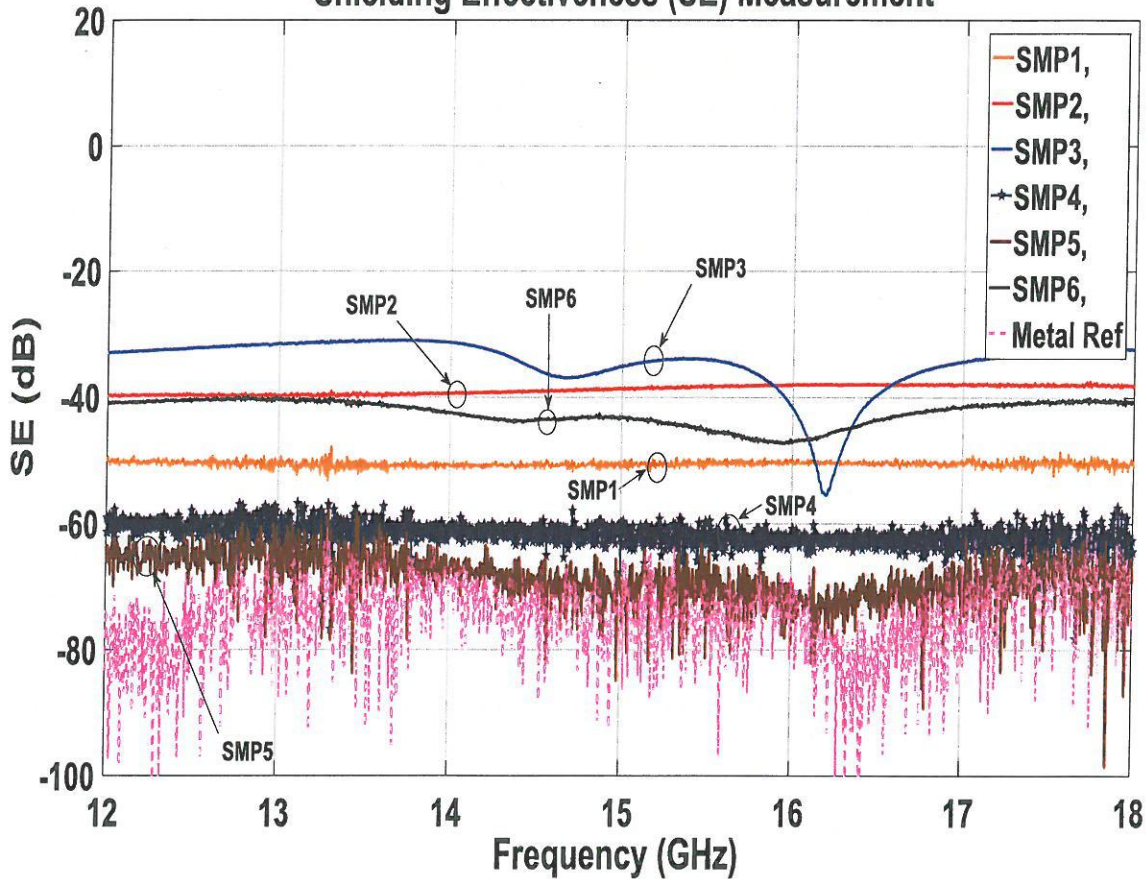


Fig. 8: The Shielding Effectiveness (SE) of SUT's and Ref Metal plate at 12 to 18 GHz (Ku-band)

Shielding Effectiveness (SE) Measurement

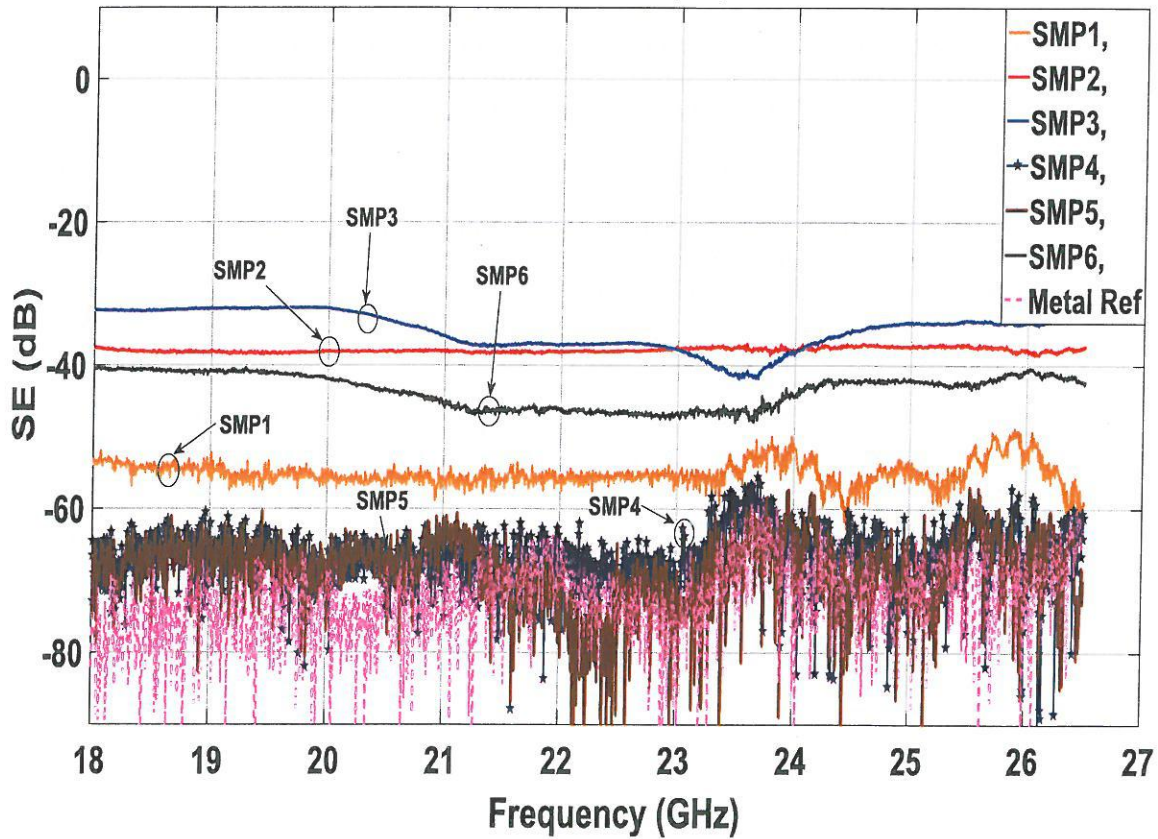


Fig. 9: The Shielding Effectiveness (SE) of SUT's and Metal Ref plate at 18 to 26.5 GHz (K-band)