

DUT Code:	ADL	Cal Date:	2020-11-09
Description	Antenna - Dipole	Temperature:	20.4C
Model	D2450V2	Humidity:	37.80%
Manufacturer	SPEAG	Tester:	Kyle McMullan
Certificate No.:	ADL2020-11-09	Pressure:	1012.6mb
		Job Site:	MN11

TEST SPECIFICATIONS			
Specification:	WP 438 SAR Dipole Verificaiton	Version:	2020 - Rev 0
Specification:		Version:	

TEST PARAMETERS			
Device Received In Tolerance:	Yes	Calibrated Frequency Range:	N/A
		Next Cal Due Date:	2021-11-10

Equipment Used to perform calibration									
Item:	Analyzer - Network Analyzer	Identifier:	NAM	Model:	E5071C	Last Cal:	2019-11-13	Cal Due:	2022-11-13
Item:	Fixture/Kit - Calibration/Verification	Identifier:	NAN	Model:	85032F	Last Cal:	NCR	Cal Due:	NCR
Item:	Terminator	Identifier:	NANA	Model:	85032-60017	Last Cal:	2020-09-10	Cal Due:	2021-09-10
Item:		Identifier:		Model:		Last Cal:		Cal Due:	
Item:		Identifier:		Model:		Last Cal:		Cal Due:	
Item:		Identifier:		Model:		Last Cal:		Cal Due:	

COMMENTS, OPINIONS and INTERPRETATIONS					
None					

Measurement Uncertainty					
	Probability Distribution	Impedance (dB)	Insertion Loss (dB)	Value (dB)	Value (+/- %)
Expanded uncertainty U (level of confidence = 95%)	normal (k=2)			0.81	

RESULTS
Pass

This measurement was a calibration verification. (Instrument parameters are within tolerances.)

Measurements are traceable to the International System of Units (SI) via NIST.

CALIBRATION DATA ATTACHED

		Return Loss		Real Impedence	Imaginary Impedence
Head Phantom	2020 Value (dB)	-26.3	2020 Value (Ω)	52.0	3.5
	2019 Value (dB)	-24.7	2019 Value (Ω)	52.2	5.6
	Deviation (%)	-6.5	Deviation (Ω)	0.2	2.1
	Limit (%)	20	Limit (Ω)	5	5
	Limit (< dB)	-20	Results	Pass	Pass
	Results	Pass			
Body Phantom	2020 Value (dB)	-24.2	2020 Value (Ω)	48.3	1.8
	2019 Value (dB)	-23.3	2019 Value (Ω)	49	6.7
	Deviation (%)	-3.9	Deviation (Ω)	0.7	4.9
	Limit (%)	20	Limit (Ω)	5	5
	Limit (< dB)	-20	Results	Pass	Pass
	Results	Pass			