



A2LA

Proposal – SCOPE OF ACCREDITATION TO
ISO/IEC 17025:2017 & ANSI/NCSL Z540-1-1994

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**PROPOSED SCOPE OF ACCREDITATION
SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

TEST AND MEASUREMENT PARTS INC, AKA TOP DOG TEST
27732 Industrial Blvd
Hayward, CA 94545
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CALIBRATION

Valid To: Current

Certificate Number: 0000.01

I. Electrical – DC/Low Frequency

Parameter	Range	CMC (\pm)	Reference Standards
DC Voltage – Source	(0 to 220) mV 220 mV to 2.2 V (2.2 to 11) V (11 to 22) V (22 to 220) V (220 to 1 100) V	8 μ V/V + 0.6 μ V 7 μ V/V + 1 μ V 7 μ V/V + 3.5 μ V 7 μ V/V + 6.5 μ V 8 μ V/V + 80 μ V 9 μ V/V + 500 μ V	Fluke 5720A/03
DC Voltage – Measure	(0 to 100) mV 100 mV to 1 V (1 to 10) V (10 to 100) V (100 to 1 000) V	7.2 μ V/V + 0.55 μ V 7 μ V/V + 0.42 μ V 6.9 μ V/V + 0.86 μ V 9.2 μ V/V + 38 μ V 9.3 μ V/V + 0.13 mV	Agilent 3458A Opt 002
DC Current – Source	(0 to 220) μ A 220 μ A to 2.2 mA (2.2 to 22) mA (22 to 220) mA 220 mA to 2.2 A (0 to 11) A (11 to 20.5) A	50 μ A/A + 8 nA 50 μ A/A + 8 nA 50 μ A/A + 80 nA 60 μ A/A + 0.8 μ A 80 μ A/A + 25 μ A 0.50 mA/A + 0.50 mA 1 mA/A + 0.75 mA	Fluke 5720A/03 Fluke 5725A Fluke 5522A



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AC Voltage – Source	220 mV to 2.2 V		Fluke 5720A/03
	(10 to 20) Hz	0.50 mV/V + 80 μ V	
	(20 to 40) Hz	0.16 mV/V + 25 μ V	
	40 Hz to 20 kHz	75 μ V/V + 6 μ V	
	(20 to 50) kHz	0.12 mV/V + 16 μ V	
	(50 to 100) kHz	0.25 mV/V + 70 μ V	
	(100 to 300) kHz	0.43 mV/V + 0.13 mV	
	(300 to 500) kHz	1.1 mV/V + 0.35 mV	
	500 kHz to 1 MHz	2.2 mV/V + 0.85 mV	
	2.2 V to 22 V		
	(10 to 20) Hz	0.50 mV/V + 0.80 mV	
	(20 to 40) Hz	0.16 mV/V + 0.25 mV	
	40 Hz to 20 kHz	75 μ V/V + 60 μ V	
	(20 to 50) kHz	0.12 mV/V + 0.16 mV	
	(50 to 100) kHz	0.25 mV/V + 0.35 mV	
	(100 to 300) kHz	0.50 mV/V + 1.5 mV	
	(300 to 500) kHz	1.3 mV/V + 4.3 mV	
	500 kHz to 1 MHz	2.7 mV/V + 8.5 mV	
	22 V to 220 V		
	(10 to 20) Hz	0.50 mV/V + 8 mV	
(20 to 40) Hz	0.16 mV/V + 2.5 mV		
40 Hz to 20 kHz	80 μ V/V + 0.8 mV		
(20 to 50) kHz	0.22 mV/V + 3.5 mV		
(50 to 100) kHz	0.50 mV/V + 8 mV		
(100 to 300) kHz	1.5 mV/V + 90 mV		
(300 to 500) kHz	4.7 mV/V + 90 mV		
500 kHz to 1 MHz	12 mV/V + 0.19 V		
220 V to 1 100 V			
(15 to 50) Hz	0.40 mV/V + 16 mV		
50 Hz to 1 kHz	80 μ V/V + 3.5 mV		
AC Voltage - Source Wide Band Absolute Level Output	30 Hz to 500 kHz		Fluke 5720A/03 Wide Band Function
	(0 to 1.1) mV	8 mV/V + 2 μ V	
	(1.1 to 3) mV	7 mV/V + 3 μ V	
	(3 to 11) mV	7 mV/V + 8 μ V	
	(11 to 33) mV	6 mV/V + 16 μ V	
	(33 to 110) mV	6 mV/V + 40 μ V	
	(110 to 330) mV	5 mV/V + 0.10 mV	
	330 mV to 1.1 V	5 mV/V + 0.40 mV	
	(1.1 to 3.5) V	4 mV/V + 0.50 mV	



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Parameter	Range	CMC (\pm)	Reference Standards
AC Voltage - Source Wide Band Flatness relative to 1 kHz	(10 to 30) Hz	3 mV/V	Fluke 5720A/03 Wide Band Function
	(30 to 120) Hz	1 mV/V	
	120 Hz to 1.2 kHz	1 mV/V	
	(1.2 to 12) kHz	1 mV/V	
	(12 to 120) kHz	1 mV/V	
	120 kHz to 1.2 MHz	1 mV/V	
	(1.2 to 2) MHz	1 mV/V + 3 μ V	
	(2 to 10) MHz	2 mV/V + 3 μ V	
	(10 to 20) MHz	4 mV/V + 3 μ V	
	(20 to 30) MHz	10 mV/V + 3 μ V	
AC Voltage – Measure	0 to 10 mV		Agilent 3458A Opt 002
	(1 to 40) Hz	0.36 mV/V + 3.6 μ V	
	40 Hz to 1 kHz	0.23 V/V + 1.4 μ V	
	(1 to 20) kHz	0.32 mV/V + 1.7 μ V	
	(20 to 50) kHz	1.2 mV/V + 1.6 μ V	
	(50 to 100) kHz	5.7 mV/V + 2 μ V	
	(100 to 300) kHz	46 mV/V + 2.6 μ V	
	10 mV to 10 V		
	(1 to 40) Hz	72 μ V/V + 0.85 mV	
	40 Hz to 1 kHz	84 μ V/V + 0.26 mV	
	(1 to 20) kHz	0.17 mV/V + 0.26 mV	
	(20 to 50) kHz	0.35 mV/V + 0.25 mV	
	(50 to 100) kHz	0.93 mV/V + 0.27 mV	
	(100 to 300) kHz 300 kHz to 1 MHz	3.5 mV/V + 1.2 mV	
	(1 to 2) MHz	12 mV/V + 1.2 mV	
	18 mV/V + 1.2 mV		
	10 V to 100 V		Agilent 3458A Opt 002
	(1 to 40) Hz	0.24 mV/V + 4.7 mV	
	40 Hz to 1 kHz	0.15 mV/V + 16 mV	
	(1 to 20) kHz	0.15 mV/V + 17 mV	
	(20 to 50) kHz	0.36 mV/V + 8.6 mV	
	(50 to 100) kHz	1.4 mV/V + 3.9 mV	
	(100 to 300) kHz	4.8 mV/V + 12 mV	
	300kHz to 1 MHz	18 mV/V + 12 mV	
	10 V to 100 V		
	(1 to 40) Hz	0.24 mV/V + 4.7 mV	
	40 Hz to 1 kHz	0.15 mV/V + 16 mV	
	(1 to 20) kHz	0.15 mV/V + 17 mV	
(20 to 50) kHz	0.36 mV/V + 8.6 mV		
(50 to 100) kHz	1.4 mV/V + 3.9 mV		
(100 to 300) kHz	4.8 mV/V + 12 mV		
300kHz to 1 MHz	18 mV/V + 12 mV		



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AC Voltage - Measure	100 V to 1 000 V		Agilent 3458A Opt 002
	(1 to 40) Hz	0.46 mV/V + 50 mV	
	40 Hz to 1 kHz	0.46 mV/V + 28 mV	
	(1 to 20) kHz	0.69 mV/V + 29 mV	
	(20 to 50) kHz	1.5 mV/V + 24 mV	
	<i>(50 to 100) kHz</i>	<i>3.6 mV/V + 24 mV</i>	
AC Current - Source	0 to 220 μ A		Fluke 5720A
	(10 to 20) Hz	0.70 mA/A + 2.5 nA	
	(20 to 40) Hz	0.35 mA/A + 20 nA	
	40 Hz to 1 kHz	0.14 mA/A + 16 nA	
	(1 to 5) kHz	0.60 mA/A + 40 nA	
	(5 to 10) kHz	1.6 mA/A + 80 nA	
	220 μ A to 2.2 mA		
	(10 to 20) Hz	0.70 mA/A + 40 nA	
	(20 to 40) Hz	0.35 mA/A + 35 nA	
	40 Hz to 1 kHz	0.14 mA/A + 35 nA	
	(1 to 5) kHz	0.60 mA/A + 0.40 μ A	
	(5 to 10) kHz	1.6 mA/A + 0.80 μ A	
	2.2 mA to 22 mA		
	(10 to 20) Hz	0.70 mA/A + 0.40 μ A	
	(20 to 40) Hz	0.35 mA/A + 0.35 μ A	
	40 Hz to 1 kHz	0.14 mA/A + 0.35 μ A	
	(1 to 5) kHz	0.60 mA/A + 4 μ A	
	(5 to 10) kHz	1.6 mA/A + 8 μ A	
	22 mA to 220 mA		
	(10 to 20) Hz	0.70 mA/A + 4 μ A	
	(20 to 40) Hz	0.35 mA/A + 3.5 μ A	
	40 Hz to 1 kHz	0.14 mA/A + 3.5 μ A	
	(1 to 5) kHz	0.60 mA/A + 40 μ A	
	(5 to 10) kHz	1.6 mA/A + 80 μ A	
	220 mA to 2.2 A		
	20 Hz to 1kHz	0.66 mA/A + 0.17 mA	Fluke 5520A with Coil
	(1 to 5) kHz	0.95 mA/A + 0.38 mA	
(5 to 10) kHz	3.6 mA/A + 0.75 mA		
20 A to 1 000 A			
(45 to 65) Hz	96 mA		
(65 to 440) Hz	43 mA		



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Parameter	Range	CMC (\pm)	Reference Standards
AC Current – Measure	0 to 100 μ A (10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz 100 μ A to 100 mA	4 mA/A + 30 nA 1.5 mA/A + 30 nA 0.60 mA/A + 30 nA 0.60 mA/A + 30 nA	Agilent 3458A Opt 002
AC Current - Measure	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz 100 mA to 1 A	4 mA/A + 20 μ A 1.5 mA/A + 20 μ A 0.60 mA/A + 20 μ A 0.30 mA/A + 20 μ A	Agilent 3458A Opt 002
Resistance - Source	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	4 mA/A + 0.20 mA 1.6 mA/A + 0.20 mA 0.80 mA/A + 0.20 mA	Agilent 3458A Opt 002
Resistance - Source	(0 to 11) Ω (11 to 33) Ω (33 to 110) Ω (110 to 330) Ω 330 Ω to 1.1 k Ω (1.1 to 3.3) k Ω (3.3 to 11) k Ω (11 to 33) k Ω (33 to 110) k Ω (110 to 330) k Ω 330 k Ω to 1.1 M Ω (1.1 to 3.3) M Ω (3.3 to 11) M Ω (11 to 33) M Ω (33 to 110) M Ω (110 to 330) M Ω (330 to 1 100) M Ω	5.7 $\mu\Omega/\Omega$ + 1.1 m Ω 35 $\mu\Omega/\Omega$ + 1.8 m Ω 29 $\mu\Omega/\Omega$ + 0.57 Ω 33 $\mu\Omega/\Omega$ + 2.4 m Ω 30 $\mu\Omega/\Omega$ + 4.3 m Ω 33 $\mu\Omega/\Omega$ + 27 m Ω 4.5 $\mu\Omega/\Omega$ + 1.7 Ω 34 $\mu\Omega/\Omega$ + 0.23 Ω 33 $\mu\Omega/\Omega$ + 0.33 Ω 35 $\mu\Omega/\Omega$ + 4 Ω 37 $\mu\Omega/\Omega$ + 2.4 Ω 71 $\mu\Omega/\Omega$ + 36 Ω 0.15 m Ω/Ω + 67 Ω 0.39 m Ω/Ω + 3 k Ω 0.58 m Ω/Ω + 4.8 k Ω 3.5 m Ω/Ω + 0.12 M Ω 18 mA/A + 0.59 M Ω	Fluke 5522A
Resistance - Source Fixed Points	1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 k Ω 1.9 k Ω 10 k Ω 19 k Ω 100 k Ω 190 k Ω 1 M Ω 1.9 M Ω	0.12 m Ω 0.22 m Ω 0.28 m Ω 0.58 m Ω 1.3 m Ω 2.4 m Ω 10 m Ω 20 m Ω 90 m Ω 0.19 Ω 1.3 Ω 2.5 Ω 24 Ω 47 Ω	Fluke 5720A/003



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Parameter	Range	CMC (\pm)	Reference Standards
Resistance - Source Fixed Points	10 M Ω 19 M Ω 100 M Ω	0.47 k Ω 1.3 k Ω 12 k Ω	Fluke 5720A/03
Resistance - Measure Fixed Points (4 WIRE)	10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω 1 G Ω	22 $\mu\Omega/\Omega$ + 62 $\mu\Omega$ 18 $\mu\Omega/\Omega$ + 0.61 m Ω 16 $\mu\Omega/\Omega$ + 0.73 m Ω 15 $\mu\Omega/\Omega$ + 13 m Ω 15 $\mu\Omega/\Omega$ + 67 m Ω 21 $\mu\Omega/\Omega$ + 2.7 Ω 46 $\mu\Omega/\Omega$ + 0.39 k Ω 0.56 m Ω/Ω + 1.2 k Ω 6 m Ω/Ω + 12 k Ω	Agilent 3458A Opt 002
Capacitance – Source			
190 pF to 1.1 nF (1.1 to 11) nF (11 to 110) nF (110 to 330) nF (0.33 to 1.1) μ F (1.1 to 3.3) μ F (3.3 to 11) μ F (11 to 33) μ F (33 to 110) μ F (110 to 330) μ F 330 μ F to 1.1 1 pF 10 pF 100 pF 1 nF	10 Hz to 10 kHz 10 Hz to 3 kHz 10 Hz to 10 kHz 10 Hz to 10 kHz (10 to 600) Hz (10 to 300) Hz (10 to 150) Hz (10 to 120) Hz (10 to 80) Hz (10 to 80) Hz (10 to 80)	5 mF/F + 12 pF 5.8 mF/F + 12 pF 2.9 mF/F + 0.12 nF 2.9 mF/F + 0.35 nF 3 mF/F + 1.2 nF 4.1 mF/F + 3.5 nF 4.1 mF/F + 11 nF 4.7 mF/F + 35 nF 5.9 mF/F + 0.11 μ F 8.1 mF/F + 0.35 μ F 12 mF/F + 0.27 μ F 1.2 fF 12 fF 0.12 pF 1.2 pF	Fluke 5522A
Electrical Simulation of Thermocouple Indicating Devices – Source and Measure			
Type K	(-200 to -50) $^{\circ}$ C (-50 to 1 372) $^{\circ}$ C	0.56 $^{\circ}$ C (1 $^{\circ}$ F) 0.28 $^{\circ}$ C (0.5 $^{\circ}$ F)	
Type T	(-200 to -50) $^{\circ}$ C (-50 to 400) $^{\circ}$ C	0.56 $^{\circ}$ C (1 $^{\circ}$ F) 0.28 $^{\circ}$ C (0.5 $^{\circ}$ F)	Fluke 5522A
Type J	(-210 to -50) $^{\circ}$ C (-50 to 760) $^{\circ}$ C	0.56 $^{\circ}$ C (1 $^{\circ}$ F) 0.28 $^{\circ}$ C (0.5 $^{\circ}$ F)	



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Parameter	Range	CMC (\pm)	Reference Standards
Oscilloscopes			
Level Sine Amp 50 kHz Ref.	5 mV to 5.0 V(p-p)	3 % + 0.3 mV	Fluke 5522A/SC1100
Level Sine Flatness 5 mV to 5.5 V Relative to 50 kHz Ref.	50 kHz to 100 MHz (100 to 300) MHz (300 to 600) MHz (600 to 1100) MHz	2 % + 0.1 mV 2.5 % + 0.1 mV 4.5 % + 0.1 mV 5.5 % + 0.1 mV	
Square Wave 1 M Ω , 100 Hz 50 Ω , 1 kHz	1 mV to 150 V(p-p) 1 mV to 6.6 V(p-p)	0.2 % + 40 μ V 0.35 % + 40 μ V	
Time Marker Output Into 50 Ω	1 ns to 20 ms	5 μ s/s	
Rise Time – Generate	1 kHz to 2 MHz (200 to 300) ps	40 ps	
	(2 to 10) MHz (200 to 350) ps	59 ps	



I. Electromagnetic - RF/Microwave

Parameter	Range	CMC (\pm)	Reference Standards
RF Tuned Power - Measure 100 kHz to 26.5 GHz	0 dB -10 dB -20 dB -30 dB -40 dB -50 dB -60 dB -70 dB -80 dB -90 dB -100 dB	0.01 dB 0.02 dB 0.03 dB 0.04 dB 0.05 dB 0.05 dB 0.07 dB 0.08 dB 0.10 dB 0.10 dB 0.11 dB	Agilent E4440A Option 233
100 kHz to 3 GHz	-110 dB -120 dB -130 dB	0.11 dB 0.22 dB 0.56 dB	
Amplitude Modulation – Source Rate: 10 MHz to 50 GHz 0 % to 100 %	DC to 100 kHz	0.46 dB	Agilent 83650B
Frequency Modulation - Source 1 kHz rate Max Dev. 8 MHz	40 MHz to 50 GHz	100 mHz/Hz 40 MHz to 50 GHz @ 1 MHz rate	Agilent 83650B
RF Power – Generate >10 dBm (10 to -10) dBm (<-10 to -60) dBm (<-60 to -110) dBm >10 dBm (10 to -10) dBm (<-10 to -60) dBm (<-60 to -110) dBm (10 to -10) dBm (<-10 to -60) dBm (<-60 to -110) dBm	<2 GHz (2 to 20) GHz (>20 to 40) GHz	1.4 dB 0.72 dB 1.1 dB 1.6 dB 1.5 dB 0.83 dB 1.2 dB 1.74 dB 1.1 dB 1.4 dB 2 dB	Agilent 83650B



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Parameter	Range	CMC (\pm)	Reference Standards
RF Power – Generate (10 to -10) dBm (<-10 to -60) dBm (<-60 to -110) dBm	(>40 to 50) GHz	2 dB 2.3 dB 3 dB	Agilent 83650B
RF Power – Measure (-20 to +30) dBm (-20 to +30) dBm	10 MHz to 2.6 GHz 50 MHz to 26.5 GHz	0.14 dB 0.36 dB	Agilent/HP 8902A with 11793A mixer and 11722a, 11792 A sensors
Amplitude Modulation – Measure Rate: 50 Hz to 10 kHz Depths: (5 to 99) % Rate: 20 Hz to 10 kHz Depths: Up to 99 % Rate: 50 Hz to 50 kHz Depths: (5 to 99) % Rate: 20 Hz to 100 kHz Depths: Up to 99 % Rate: 50 Hz to 50 kHz Depths: (5 to 99) % Rate: 20 Hz to 100 kHz Depths: Up to 99 %	150 kHz to 10 MHz >10 MHz to 1.3 GHz (>1.3 to 26.5) GHz	2.5 % + 1 digit 3.6 % + 1 digit 1.5 % + 1 digit 3.6 % + 1 digit 1.9 % + 1 digit 3.5 % + 1 digit	Agilent/HP 8902A measuring receiver with 11722A sensor and 11793A mixer
Frequency Modulation – Measure Rate: 20 Hz to 10 kHz Dev.: \leq 40 kHz peak Rate: 50 Hz to 100 kHz Dev.: \leq 400 kHz peak Rate: 20 Hz to 200 kHz Dev.: \leq 400 kHz peak	(0.25 to 10) MHz (10 to 1300) MHz (10 to 1300) MHz	2.3 % + 1 digit 1.2 % + 1 digit 5.8 % + 1 digit	Agilent/HP 8902A with 11722A and 11792A sensors



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Parameter	Range	CMC (\pm)	Reference Standards
Attenuation – (+16 to -129) dB (+16 to -134) dB (+16 to -140) dB (+16 to -135) dB (+16 to -129) dB (+16 to -121) dB	100 kHz to 2 MHz (2 to 10) MHz 10 MHz to 6.6 GHz (6.6 to 13.2) GHz (13.2 to 19.2) GHz (19.2 to 26.5) GHz	0.08 dB + 0.005 dB/10 dB Step	Keysight N5531S, add 0.031dB each time you switch between ranges (E4440A, N1914A, N5532A)
Amplitude Modulation – Measure			
Rate: 20 Hz to 10 kHz Depth: (5 to 99) %	<i>100 kHz to 10 MHz</i>	<i>0.98 %</i>	Keysight N5531S, add 0.031dB each time you switch between ranges (E4440A, N1914A, N5532A)
Rate: 50 Hz to 100 kHz Depth: (20 to 99) %	<i>10 MHz to 3 GHz</i>	<i>0.71 %</i>	
Rate: 50 Hz to 100 kHz Depth: (5 to 20) %	<i>10 MHz to 3 GHz</i>	<i>3.0 %</i>	
Rate: 50 Hz to 100 kHz Depth: (20 to 99) %	<i>(3 to 26.5) GHz</i>	<i>1.8 %</i>	
Rate: 50 Hz to 100 kHz Depth: (5 to 20) %	<i>(3 to 26.5) GHz</i>	<i>5.4 %</i>	
Frequency Modulation – Measure			
Rates: 20 Hz to 10 kHz Deviations: 200 Hz to 40 kHz peak	250 kHz to 10 MHz	<i>1.8 %</i>	Keysight N5531S, add 0.031dB each time you switch between ranges (E4440A, N1914A, N5532A)
Rates: 50 Hz to 200 kHz Deviations: 250 Hz to 400 kHz peak	10 MHz to 6.6 GHz	<i>1.8 %</i>	
Rates: 50 Hz to 200 kHz Deviations: 250 Hz to 400 kHz peak	(6.6 to 13.2) GHz	<i>3.0 %</i>	
Rates: 50 Hz to 200 kHz Deviations: 250 Hz to 400 kHz peak	(13.2 to 26.5) GHz	<i>4.6 %</i>	
Rates: 50 Hz to 200kHz Deviations: 250 Hz to 400 kHz peak	250 kHz to 26.5 GHz	<i>1.2 %</i>	



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Parameter	Range	CMC (\pm)	Reference Standards
Distortion - Measure Rate: 20 Hz to 250 kHz (0.01 to 100) %	20 Hz to 20 kHz (20 to 100) kHz	+/- 1 dB +/- 2 dB	Agilent 8903B
Power Flatness 0 dBm or 1 mW	100 kHz to 4.2 GHz	0.08 dB	Agilent E4419B Agilent 8482A
	10 MHz to 12.4 GHz (12.4 to 18) GHz	0.08 dB 0.1 dB	Agilent E4419B Agilent 8481A
	50 MHz to 12.4 GHz (12.4 to 26.5) GHz	0.1 dB 0.15 dB	Agilent E4419B Agilent 8485A
	(26.5 to 40) GHz (40 to 50) GHz	0.16 dB 0.24 dB	Agilent E4419B Agilent 8487A
Power - Measure, 1 mW reference	50 MHz 1 mW Power Reference	0.3 % or 0.003 mW	Agilent 432A Agilent 478A Opt H93 Agilent 3458A

DOCUMENT REVISION HISTORY

DATE	DESCRIPTION
09/14/19	First Draft