

I. Dimensional				
Location	Parameter/Equipment	Range/Frequency	CMC (±)	Comments
Boston	Micrometers[3] – Flatness	Up to 0.001 in	11 µin	Grade 2 gage blocks, optical flat
Boston	Micrometers[3] – Parallelism	Up to 0.001 in	16 µin	Grade 2 gage blocks, optical flat
Boston	Micrometers[3] – Linearity	Up to 0.2 in	52 µin	Grade 2 gage blocks, optical flat
Boston	Micrometers[3] – Linearity	(0.2 to 1.0) in	66 µin	Grade 2 gage blocks, optical flat
Boston	Micrometers[3] – Linearity	(1.0 to 6.0) in	92 µin	Grade 2 gage blocks, optical flat
Boston	Calipers[3]	Up to 12 in	(280 + 40L) µin	Grade 2 gage blocks, master ring
Boston	Indicators[3]	Up to 1 in	(17 + 11L) µin	Grade 2 gage blocks
Boston	Linear Scales	Increments Up to 12 in	0.000 87 in	MicroVu

## II. Electrical – DC/Low Frequency

Location	Parameter/Equipment	Range/Frequency	CMC (±)	Comments
Boston	DC Voltage – Generate[3]	(0 to 120) mV	10 µV/V + 0.8 µV	Fluke 5560A
Boston	DC Voltage – Generate[3]	(0.12 to 1.2) V	6.8 µV/V + 1 µV	Fluke 5560A
Boston	DC Voltage – Generate[3]	(1.2 to 12) V	6.3 µV/V + 10 µV	Fluke 5560A
Boston	DC Voltage – Generate[3]	(12 to 120) V	8.7 µV/V + 100 µV	Fluke 5560A
Boston	DC Voltage – Generate[3]	(120 to 1020) V	8.7 µV/V + 1 mV	Fluke 5560A
Boston	DC Voltage – Measure[3]	(0 to 100) mV	7.3 µV/V + 0.3 µV	HP 3458A OPT-002
Boston	DC Voltage – Measure[3]	100 mV to 1 V	4.6 µV/V + 0.3 µV	HP 3458A OPT-002
Boston	DC Voltage – Measure[3]	(1 to 10) V	4.6 µV/V + 0.5 µV	HP 3458A OPT-002
Boston	DC Voltage – Measure[3]	(10 to 100) V	6.9 µV/V + 30 µV	HP 3458A OPT-002
Boston	DC Voltage – Measure[3]	(100 to 1000) V*	7.0 µV/V + 0.1 mV*	HP 3458A OPT-002 *Add 12 µV/V x (V in /100)
Boston	DC Current – Generate[3]	(0 to 120) µA	98 µA/A + 6 nA	Fluke 5560A
Boston	DC Current – Generate[3]	(0.12 to 1.2) mA	79 µA/A + 15 nA	Fluke 5560A
Boston	DC Current – Generate[3]	(1.2 to 12) mA	79 µA/A + 80 nA	Fluke 5560A
Boston	DC Current – Generate[3]	(12 to 120) mA	79 µA/A + 0.8 µA	Fluke 5560A
Boston	DC Current – Generate[3]	(0.12 to 1.2) A	120 µA/A + 10 µA	Fluke 5560A
Boston	DC Current – Generate[3]	(1.2 to 3.1) A	250 µA/A + 0.15 mA	Fluke 5560A
Boston	DC Current – Generate[3]	(3.1 to 21) A	240 µA/A + 0.25 mA	Fluke 5560A
Boston	DC Current – Generate[3]	(12 to 30.2) A	800 µA/A + 0.5 mA	Fluke 5560A
Boston	DC Current – Generate[3] – DC Induced Current	(20 to 149.999) A	0.38 %	Fluke 5560A, Fluke 5500A/COIL
Boston	DC Current – Generate[3] – DC Induced Current	(150 to 1000) A	0.36 %	Fluke 5560A, Fluke 5500A/COIL
Boston	DC Current – Measure[3]	(10 to 100) µA	29 µA/A + 0.8 nA	HP 3458A OPT-002
Boston	DC Current – Measure[3]	(0.1 to 1) mA	26 µA/A + 5 nA	HP 3458A OPT-002
Boston	DC Current – Measure[3]	(1 to 10) mA	26 µA/A + 50 nA	HP 3458A OPT-002
Boston	DC Current – Measure[3]	(10 to 100) mA	42 µA/A + 0.5 µA	HP 3458A OPT-002
Boston	DC Current – Measure[3]	100 mA to 1 A	130 µA/A + 10 µA	HP 3458A OPT-002
Boston	DC Current – Measure[3]	(1 to 40) A	0.038 % + 0.12 mA	HP 3458A OPT-2 standard shunts
Boston	DC Current – Measure[3]	(40 to 60) A	0.065 % + 0.12 mA	HP 3458A OPT-2 standard shunts
Boston	DC Current – Measure[3]	(60 to 100) A	0.058 % + 0.12 mA	HP 3458A OPT-2 standard shunts
Boston	DC Current – Measure[3]	(100 to 500) A	0.46 % + 0.12 mA	HP 3458A OPT-2 standard shunts
Boston	Resistance – Measure[3]	(0 to 10) Ω	19 µΩ/Ω + 50 mΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	(10 to 100) Ω	16 µΩ/Ω + 0.5 mΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	100 Ω to 1 kΩ	14 µΩ/Ω + 0.5 mΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	(1 to 10) kΩ	14 µΩ/Ω + 5 mΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	(10 to 100) kΩ	14 µΩ/Ω + 50 mΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	100 kΩ to 1 MΩ	19 µΩ/Ω + 210 mΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	(1 to 10) MΩ	60 µΩ/Ω + 100 Ω	HP 3458A OPT-002
Boston	Resistance – Measure[3]	(10 to 100) MΩ	0.058 % + 0.1 kΩ	HP 3458A OPT-002
Boston	Resistance – Measure[3]	(100 to 1000) MΩ	0.58 % + 1 kΩ	HP 3458A OPT-002
Boston	Resistance – Generate[3]	(0 to 12) Ω	27 µΩ/Ω + 1 mΩ	Fluke 5560A
Boston	Resistance – Generate[3]	(12 to 120) Ω	22 µΩ/Ω + 1 mΩ	Fluke 5560A
Boston	Resistance – Generate[3]	(0.12 to 1.2) kΩ	22 µΩ/Ω + 2 mΩ	Fluke 5560A
Boston	Resistance – Generate[3]	(1.2 to 12) kΩ	21 µΩ/Ω + 20 mΩ	Fluke 5560A
Boston	Resistance – Generate[3]	(12 to 120) kΩ	22 µΩ/Ω + 200 mΩ	Fluke 5560A
Boston	Resistance – Generate[3]	(0.12 to 1.2) MΩ	23 µΩ/Ω + 2 Ω	Fluke 5560A
Boston	Resistance – Generate[3]	(1.2 to 12) MΩ	29 µΩ/Ω + 30 Ω	Fluke 5560A
Boston	Resistance – Generate[3]	(12 to 120) MΩ	340 µΩ/Ω + 2.5 kΩ	Fluke 5560A
Boston	Resistance – Generate[3]	(120 to 1200) MΩ	3500 µΩ/Ω + 100 kΩ	Fluke 5560A
Boston	Capacitance – Generate[3]	(0.2 to 1.2) nF	0.09 % + 0.002 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	(1.2 to 12) nF	0.09 % + 0.005 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	(12 to 120) nF	0.12 % + 0.03 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	120 nF to 1.2 µF	0.10 % + 0.3 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	(1.2 to 12) µF	0.10 % + 3 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	(12 to 120) µF	0.13 % + 25 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	120 µF to 1.2 mF	0.19 % + 250 nF	Fluke 5560A
Boston	Capacitance – Generate[3]	(1.2 to 12) mF	0.19 % + 3 µF	Fluke 5560A
Boston	Capacitance – Generate[3]	(12 to 120) mF	0.40 % + 30 µF	Fluke 5560A
Boston	AC Voltage – Generate[3] – (1 to 12) mV	(3 to 5) Hz	1900 µV/V + 7 µV	Fluke 5560A
Boston	AC Voltage – Generate[3] – (1 to 12) mV	(5 to 10) Hz	690 µV/V + 7 µV	Fluke 5560A
Boston	AC Voltage – Generate[3] – (1 to 12) mV	10 Hz to 20 kHz	190 µV/V + 6 µV	Fluke 5560A
Boston	AC Voltage – Generate[3] – (1 to 12) mV	(20 to 50) kHz	360 µV/V + 6 µV	Fluke 5560A
Boston	AC Voltage – Generate[3] – (1 to 12) mV	(50 to 100) kHz	1200 µV/V + 15 µV	Fluke 5560A
Boston	AC Voltage – Generate[3] – (1 to 12) mV	(100 to 300) kHz	6200 µV/V + 30 µV	Fluke 5560A



Boston	AC Voltage – Measure[3] – (10 to 100) V	(1 to 20) kHz	0.027 % + 2 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (10 to 100) V	(20 to 50) kHz	0.044 % + 2 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (10 to 100) V	(50 to 100) kHz	0.17 % + 2 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (10 to 100) V	(100 to 300) kHz	0.51 % + 10 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (100 to 700) V	(15 to 50) Hz	0.051 % + 20 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (100 to 700) V	50 Hz to 1 kHz	0.049 % + 20 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (100 to 700) V	(1 to 20) kHz	0.072 % + 20 mV	HP 3458A OPT-002
Boston	AC Voltage – Measure[3] – (100 to 700) V	(20 to 50) kHz	0.14 % + 20 mV	HP 3458A OPT-002
Boston	AC Current – Generate[3] – (10 to 120) μA	(3 to 45) Hz	0.021 % + 0.01 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (10 to 120) μA	45 to 1k Hz	0.020 % + 0.01 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (10 to 120) μA	(1 to 5) kHz	0.021 % + 0.01 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (10 to 120) μA	(5 to 10) kHz	0.12 % + 0.04 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (10 to 120) μA	(10 to 30) kHz	0.40 % + 1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) mA	(3 to 45) Hz	0.023 % + 0.1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) mA	45 to 1 kHz	0.021 % + 0.1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) mA	(1 to 5) kHz	0.021 % + 0.1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) mA	(5 to 10) kHz	0.12 % + 0.1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) mA	(10 to 30) kHz	0.40 % + 5 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 12) mA	(3 to 45) Hz	0.020 % + 1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 12) mA	45 to 1 kHz	0.020 % + 1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 12) mA	(1 to 5) kHz	0.020 % + 1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 12) mA	(5 to 10) kHz	0.12 % + 1 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 12) mA	(10 to 30) kHz	0.39 % + 10 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 120) mA	(3 to 45) Hz	0.020 % + 10 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 120) mA	45 to 1 kHz	0.013 % + 5 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 120) mA	(1 to 5) kHz	0.020 % + 8 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 120) mA	(5 to 10) kHz	0.12 % + 10 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 120) mA	(10 to 30) kHz	0.39 % + 100 μA	Fluke 5560A
Boston	AC Current – Generate[3]	(3 to 45) Hz	0.020 % + 0.1 mA	Fluke 5560A
Boston	AC Current – Generate[3]	45 to 1 kHz	0.020 % + 0.05 mA	Fluke 5560A
Boston	AC Current – Generate[3]	(1 to 5) kHz	0.020 % + 0.08 mA	Fluke 5560A
Boston	AC Current – Generate[3]	(5 to 10) kHz	0.19 % + 300 μA	Fluke 5560A
Boston	AC Current – Generate[3]	(10 to 30) kHz	0.39 % + 300 μA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) A	(3 to 45) Hz	0.032 % + 0.5 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) A	45 to 1 kHz	0.025 % + 0.3 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) A	(1 to 5) kHz	0.030 % + 0.3 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (0.12 to 1.2) A	(5 to 10) kHz	0.19 % + 0.5 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 3.1) A	(3 to 45) Hz	0.034 % + 1 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 3.1) A	45 to 1 kHz	0.027 % + 0.5 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 3.1) A	(1 to 5) kHz	0.034 % + 0.8 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (1.2 to 3.1) A	(5 to 10) kHz	0.19 % + 1 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (3.1 to 12) A	(3 to 45) Hz	0.085 % + 10 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (3.1 to 12) A	45 to 1 kHz	0.055 % + 8 mA	Fluke 5560A
Boston	AC Current – Generate[3] – (3.1 to 12) A	(1 to 5) kHz	0.39 % + 8 ma	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 30.2) A (20 to 149.9)	(45 to 65) Hz	0.38 %	Fluke 55XXA w/ Fluke 5500/COIL
Boston	AC Current – Generate[3] – (12 to 30.2) A (20 to 149.9)	(65 to 440) Hz	0.85 %	Fluke 55XXA w/ Fluke 5500/COIL
Boston	AC Current – Generate[3] – (12 to 30.2) A (20 to 149.9)	(45 to 65) Hz	0.38 %	Fluke 5560A
Boston	AC Current – Generate[3] – (12 to 30.2) A (20 to 149.9)	(65 to 440) Hz	0.96 %	Fluke 5560A
Boston	AC Current – Measure[3] – (5 to 100) μA	(10 to 20) Hz	0.46 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (5 to 100) μA	(20 to 45) Hz	0.17 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (5 to 100) μA	45 to 100) Hz	0.071 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (5 to 100) μA	100 Hz to 1 kHz	0.036 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (100 to 1) mA	(10 to 20) Hz	0.46 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (100 to 1) mA	(20 to 45) Hz	0.20 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (100 to 1) mA	45 to 100) Hz	0.093 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (100 to 1) mA	100 Hz to 5 kHz	0.059 % + 0.01 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (1 to 10) mA	(10 to 20) Hz	0.46 % + 0.012 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (1 to 10) mA	(20 to 45) Hz	0.17 % + 0.012 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (1 to 10) mA	45 to 100) Hz	0.07 % + 0.012 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (1 to 10) mA	100 Hz to 5 kHz	0.036 % + 0.012 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (10 to 100) mA	(10 to 20) Hz	0.46 % + 0.059 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (10 to 100) mA	(20 to 45) Hz	0.17 % + 0.059 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (10 to 100) mA	45 to 100) Hz	0.07 % + 0.059 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – (10 to 100) mA	100 Hz to 5 kHz	0.036 % + 0.059 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – 100 mA to 1 A	(10 to 20) Hz	0.46 % + 0.58 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – 100 mA to 1 A	(20 to 45) Hz	0.19 % + 0.58 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – 100 mA to 1 A	45 to 100) Hz	0.095 % + 0.58 μA	HP 3458A OPT-2
Boston	AC Current – Measure[3] – 100 mA to 1 A	100 Hz to 5 kHz	0.12 % + 0.58 μA	HP 3458A OPT-2
Boston	AC Voltage Flatness – Measure[3] – 0.5 V	10 MHz	0.88 %	Fluke A55 0.5 V thermal converter
Boston	AC Voltage Flatness – Measure[3] – 0.5 V	20 MHz	0.95 %	Fluke A55 0.5 V thermal converter
Boston	AC Voltage Flatness – Measure[3] – 0.5 V	30 MHz	0.95 %	Fluke A55 0.5 V thermal converter
Boston	AC Voltage Flatness – Measure[3] – 0.5 V	50 MHz	1.4 %	Fluke A55 0.5 V thermal converter
Boston	AC Voltage Flatness – Measure[3] – 2 V	10 MHz	0.95 %	Fluke A55 2.0 V thermal converter
Boston	AC Voltage Flatness – Measure[3] – 2 V	20 MHz	1.0 %	Fluke A55 2.0 V thermal converter
Boston	AC Voltage Flatness – Measure[3] – 2 V	30 MHz	1.0 %	Fluke A55 2.0 V thermal converter

Boston	AC Voltage Flatness – Measure[3] – 2 V	50 MHz	1.3 %	Fluke A55 2.0 V thermal converter
Boston	Oscilloscopes[3] – Level Sine 50 kHz Reference	5 mV to 5.5 V (p-p)	1.6 % + 300 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Sine Flatness 5 mV to 5.5 V Relative (0.050 to 10) MHz		1.2 % + 100 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Sine Flatness 5 mV to 5.5 V Relative (10 to 300) MHz		2.4 % + 100 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Sine Flatness 5 mV to 5.5 V Relative (300 to 600) MHz		2.4 % + 100 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Sine Flatness 5 mV to 5.5 V Relative (600 to 1100) MHz		3.2 % + 100 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Square Wave Amplitude	1.0 mV to 120 V (p-p)	0.082 % + 40 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Square Wave Amplitude	1.0 mV to 6.6 V (p-p)	0.21 % + 40 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – DC Signal Level	(0 to 120) V	0.042 % + 40 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – DC Signal Level	(0 to 6.6) V	0.20 % + 40 $\mu$ V	Fluke 5560A
Boston	Oscilloscopes[3] – Time Marker Output Into 50 $\Omega$	500 ps to 5 s	2.5 $\mu$ s/s	Fluke 5560A
Boston	Oscilloscopes[3] – Rise Time: 900 Hz to 10 MHz	<175 ps	65 ps	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-250 to -100) °C		0.35 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-100 to -25) °C		0.15 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-25 to 350) °C		0.11 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (350 to 650) °C		0.13 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (650 to 1000) °C		0.17 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-210 to -100) °C		0.25 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-100 to -30) °C		0.14 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-30 to 150) °C		0.12 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (150 to 760) °C		0.12 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (760 to 1200) °C		0.19 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-200 to -100) °C		0.23 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-100 to -25) °C		0.12 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-25 to 120) °C		0.12 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (120 to 1000) °C		0.21 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (1000 to 1372) °C		0.28 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-250 to -150) °C		0.49 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (-150 to 0) °C		0.17 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (0 to 120) °C		0.11 °C	Fluke 5560A
Boston	Electrical Simulation of Thermocouples – Generate & I (120 to 400) °C		0.097 °C	Fluke 5560A

### III. Mechanical

Location	Parameter/Equipment	Range/Frequency	CMC ( $\pm$ )	Comments
Boston	Scales & Balances[3]	1 mg to 200 g	0.50 mg + 0.58R	Class 1 weight set
Boston	Scales & Balances[3]	200 g to 10 kg	0.001 % + 0.58R	Class 1 weight set
Boston	Torque Tools	4 ozf-in to 600 lbf-ft	0.34 %	4:1 transducer load cell (x3) w/ display

### IV. Thermodynamic

Location	Parameter/Equipment	Range/Frequency	CMC ( $\pm$ )	Comments
Boston	Humidity – Measuring Equipment[3]	11 % RH	1.5 % RH + 0.58R	Vaisala HMP233, humidity chambers w/ salts
Boston	Humidity – Measuring Equipment[3]	43 % RH	1.5 % RH + 0.58R	Vaisala HMP233, humidity chambers w/ salts
Boston	Humidity – Measuring Equipment[3]	75 % RH	1.5 % RH + 0.58R	Vaisala HMP233, humidity chambers w/ salts
Boston	Humidity – Measure[3]	(15 to 90) % RH	1.5 % RH + 0.58R	Vaisala HMP233
Boston	Temperature – Measuring Equipment	(-20 to 140) °C	0.18 °C	Rosemont 162CE w/ Hart 9105
Boston	Temperature – Measure[3]	(-40 to 420) °C	0.013 °C	Rosemont 162CE w/ Hart 9105

### V. Time & Frequency

Location	Parameter/Equipment	Range/Frequency	CMC ( $\pm$ )	Comments
Boston	Frequency – Generate – Fixed Point	10 MHz	6.6 x 10 <sup>-12</sup> Hz	Fluke 910
Boston	Frequency – Generate – Measuring Equipment	0.01 Hz to 1.1 GHz	2.5 uHz/Hz	Fluke 5560A
Boston	Frequency – Measure[3]	10 mHz to 225 MHz	0.17 x 10 <sup>-9</sup> Hz	HP 53132A OPT-012, 030
Boston	Frequency – Measure[3]	(0.225 to 3.0) GHz	5.8 x 10 <sup>-9</sup> Hz	HP 53132A OPT-012, 030
Boston	Frequency – Measure[3]	10 Hz to 525 MHz	21 x 10 <sup>-9</sup> Hz	HP5351B
Boston	Frequency – Measure[3]	(0.500 to 26.5) GHz	21 x 10 <sup>-9</sup> Hz	HP5351B