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LABORATORY LOCATION/ CENTRAL OFFICE:	QAV Technologies Sdn Bhd 116, Lintang Kampung Jawa MK12 Bayan Lepas 11900 Bayan Lepas, Pulau Pinang , 11900, PULAU PINANG MALAYSIA
	
ACCREDITED SINCE :	31 OCTOBER 2006
FIELD(S) OF TESTING:	ELECTRICAL ELECTROMAGNETIC COMPATIBILITY (EMC) MECHANICAL (ENVIRONMENTAL)
FIELD(S) OF CALIBRATION:	TEMPERATURE AND HUMIDITY

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

CENTRAL LOCATION:	QAV Technologies Sdn Bhd 116, Lintang Kampung Jawa MK12 Bayan Lepas 11900 Bayan Lepas, Pulau Pinang , 11900, Pulau Pinang
FIELD(S) OF TESTING :	ELECTRICAL, ELECTROMAGNETIC COMPATIBILITY (EMC), MECHANICAL

SCOPE OF TESTING : ELECTRICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
2. Led Assemblies	None	None
3. Solid State Lighting	None	None
Ac Voltage	None	(2400 0.19 V)
	60.33 V to 63.5 V	0.068 V
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	60.33 V to 63.5 V	0.068 V
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	60.33 V to 63.5 V	0.068 V
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	60.33 V to 63.5 V	0.068 V
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	10 Hz to 1 MHz	0.01 mV
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	2.2 mV to 220 V (See Matrix A)	(See Matrix A)
	1100 V Range (110 V to 1100 V)	360 + 20 mV 85 +4 mV
	15 Hz to 50 Hz 50 Hz to 1 kHz	
	800 V to 1050 V 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 20 kHz	0.8 mV/V + 0.13 V 0.8 mV/V + 0.21 V 1.2 mV/V + 0.32 V
	2.2 mV to 1000V (See Matrix D)	(See Matrix D)
	10 mV to 700V (See Matrix E)	(See Matrix E)
	(0 kV to 9.99 kV) @ 50/60 Hz (10 kV to	1.2mVNV +0.1V
	2.2 mV to 220 V (See Matrix A)	(See Matrix A) 90 +4 mV
	1100 V Range (110 V to 1100 V)	
	50 Hz to 1 kHz	
	800 V to 1050 V 1 kHz to 3 kHz 3 kHz to 10 kHz 10 kHz to 20 kHz	0.8 mV/V V 0.8 mV/V + 0.21 V V
	10 mV to 700V (See Matrix D)	(See Matrix D)
	0 to 1000 V	(See Matrix K)
	0 to 33 mV 10 Hz to 45 Hz	0.03 mV
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	60.33 V to 63.5 V	0.068 V
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8
	60.33 V to 63.5 V	0.068 V
	0 to 33 mV	None
	100 mV	None
	45 Hz to 10 kHz 10 kHz to 20 kHz	8

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	to 1050 V	See Matrix A
	0 to 1000 V	See Matrix C
	0 V to 1050 V	See Matrix A
	0 V to 1000 V	See Matrix C
	3Vto6V	None
	None	None
	7.5 V to 14.999 V	0.21 mV/V - 0.20 mV
	0 to 1020 V	See Matrix A
	0 to 1020 V	See Matrix A
	1 mV to 1000 V	See Matrix A
	None	
	0 mV to 10 V (Refer The Matrix A)	(Refer The Matrix A)
	10 V to 750 V	None
	(Refer The Matrix B)	(Refer The Matrix B)
	At 50 Hz 1 kV to 10 kV	13 mV/V
	At 50 Hz 1 kV to 10 kV	16 mV/V
	2.2 mV to 220 V	See Matrix E
	330V to 1020V	None
	45Hz to 1kHz	0.24mV/V + 11mV
	1kHz to 5kHz	0.21mV/V + 8.6mV
	5kHz to 10kHz	0.24mV/V +
	0 mV to 750 V	Refer Matrix A
	2.2 mV to 220 V (See Matrix A)	(See Matrix A)
	220 V to 1100 V	None
	15 Hz to 50 Hz	0.30 mV/V + 16 mV
	220 V to 1100 V	None
	50 Hz to 1 kHz	77 + 3.2 mV
	See Matrix E	None
	0.5 kV to 10 kV	12 mV/V + 13 mV
	1.0 to 33 mV	None
	10 Hz to 45 Hz	3.6
	45 Hz to 10 kHz	43
	10 kHz to 20	3.6 UV
	20 kHz to 50 kHz	5.7
	50 kHz to 100 kHz	11
	100 kHz to 500 kHz	26
	33 to 330 mV	None
	10 Hz to 45 Hz	13
	45 Hz to 10 kHz	77 uv
	10 kHz to 20	13
	20 kHz to 50 kHz	18
	50 kHz to 100 kHz 100 kHz to 500 kHz	45 110
	0.33 to 3.3 V	None
	10 Hz to 45 Hz	0.1 mV
	45 Hz to 10 kHz	0.1 mV
	10 kHz to 20 kHz	0.1 mV
	20 kHz to 50 kHz	0.2 mV

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	50 kHz to 100 kHz	0.2 mV
	100 kHz to 500 kHz	1.1 mV
	3.3 to 33. V	None
	10 Hz to 45 Hz	1.2mV
	45 Hz to 10 kHz	None
	10 kHz to 20 kHz	1.2mV
	20 kHz to 50 kHz	2.1mV
	50 kHz to 100 kHz	2.8 mV
	33 to 330 V	None
	10 Hz to 45 Hz	None
	45 Hz to 10 kHz	14 mV
	10 kHz to 20 kHz	14 mV
	330 to 1020 V	None
	45 Hz to 1 kHz	39 mV
	1 kHz to 5 kHz	52 mV
	-1 Ato -100 mA	None
	10 mV rang	None
	0 mV to 10 mV	None
	100 mV rang	None
	10 mV to 100 mV	None
	1V rang	None
	100 mV to 1 V	None
	10 V rang	(See Matrix A)
	1Vto10V	None
	100 V rang	None
	10 V to 100 V	None
	1000 V rang	None
	100 V to 700 V	None
	(See Matrix A)	None
	10 Hz to 45 Hz	0.14 mV
	45 Hz to 10 kHz	85
	10 kHz to 20 kHz 20 kHz to 50 kHz	91 0.11 mV
	50 kHz to 100 kHz	0.16 mV
	100 kHz to 500 kHz	0.41 mV
	33 to 330 mV	None
	10 Hz to 45 Hz	0.9 mV
	45 Hz to 10 kHz	0.2 mV
	10 kHz to 20 kHz	None
	20 kHz to 50 kHz	0.6 mV
	50 kHz to 100 kHz	1.0 mV
	100 kHz to 500 kHz	2.8 mV
	0.33 to 3.3 V	None
	10 Hz to 45 Hz	5.9 mV
	45 Hz to 10 kHz	1.2mV
	10 kHz to 20 kHz	3.1 mV
	20 kHz to 50 kHz	5.6 mV
	50 kHz to 100 kHz	11 mV

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	100 kHz to 500 kHz	22 mV
	3.3 to 33 V	None
	10 Hz to 45 Hz	59 mV
	45 Hz to 10 kHz	16 mV
	10 kHz to 20 kHz	33 mV
	20 kHz to 50 kHz	76 mV
	50 kHz to 100 kHz	110 mV
	33 to 330 V	None
	10 Hz to 45 Hz	0.2
	45 Hz to 10 kHz	0.3
	10 kHz to 20 kHz	0.3
	330 to 1020 V	None
	45 Hz to 1 kHz	0.7
	1 kHz to 5 kHz	2.3
	- 1000 V to -100 V	None
	10 mV rang	None
	0 mV to 10 mV	None
	100 mV range	None
	10 mV to 100 mV	None
	1V rang	None
	100 mV to1V	None
	10 V rang	(See Matrix B)
	1Vto10V	None
	100 V rang	None
	10 V to 100 V	None
	1000 V rang	None
	100 V to 700 V	None
	(See Matrix B)	None
	33 mV to 750 V	See Matrix A
	33 mV to 750 V	None
	33 mV to 1020 V See Matrix A	See Matrix A
	100 to 1050 V See Matrix C	See Matrix C
	33 mV to 1020 V See Matrix E	See Matrix E
	100 to 1050 V See Matrix G	See Matrix G
	See Matrix A	See Matrix A
	See Matrix C	See Matrix C
	10 kHz to 20 kHz	1.0mV/V
	330 V to 1020 V	None
	45 Hz to 1 kHz	0.67
	1 kHz to 5 kHz	2.3mV/V
	5 kHz to 10 kHz	2.3mV/V
	1 mV to 750 V	See Matrix C
	750 V to 1000 V 45 Hz to 1 kHz 1 kHz to 10 kHz	9.2mV/V 9.2mV/V
	45 Hz to 65 Hz	35
	45 Hz to 65 Hz	None
	45 Hz to 65 Hz	None
	1 mA to 10 mA	0.90 mA/A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	10 mA to 100 mA	0.77
	0.045 kHz to 1 kHz	9.2mV/V
	1 kHz to 10 kHz	9.2mV/V
	to 40 kV 45 Hz to 65 Hz	62 mV/V
	to 40 kV 45 Hz to 65 Hz	None
Assembly Control Gear	None	None
Assembly With Self	None	None
Assembly, Finished	None	None
	30°C to 80°C	None
Ballast	None	None
Circuit Board Assembly,	Field	Ed 2.0 2009-09
Control Gear For Use On	None	BS EN 61347-1: 2001+AMD1:2008
D.c.	None	BS EN 61347-2-13: 2006
D.c.supplies Up To 250v	None	None
Dc Current	15Ato20A	(0.52 mA/A + 0.058 A)
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA
	0 UA to 220 pA 220 to 2.2 mA 2.2 mA to 22 mA	0.03 pA 0.07 pA 0.7 pA
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	0 mA to 3.29 mA 3.3 mA to 32.9 mA 33 mA to 329.0 mA 329 mA to 2.19A	0.13 pA 1.1 35 pA 0.26 mA
	10A 10Ato50A	0.7A 0.9A
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA
	0 mA to 3.29 mA 3.3 mA to 32.9 mA 33 mA to 329.0 mA 329 mA to 2.19A	0.13 pA 1.1 35 pA 0.26 mA
	10A 10Ato50A	0.7A 0.9A
	+ 220 Range + (0 to 220 pA) + 2.2 mA Range mA to 2.2 mA) + 22 mA Range mA to 22 mA) + 220 mA Range + (0 mA to 220 mA) + 2.2 A Range +(0Ato2.2A)	40 + 6 nA 35 pA/A + 7 nA 35 pA/A + 40 nA 45 + 0.7 pA 80 + 12 pA
	+ 3.2 A Range + (0.32 Ato 3.2A) + 10.5 A Range + (3.2 A to + 20 A Range A to 20 A)	0.6 + 0.12 mA 0.55 mA/A + 0.94 mA 0.55 mA/A + 4.5 mA
	200 mA	8.0 + 2.0 pA 33.0 pA/A + 4.0 pA
	+(1 nA to 100 nA) + (100 nA to 1 to 10 + (10 wA to 100 + (100 to 1 mA) mA to 10 mA) + (10 mA to 100 mA) mA to 1A)	30 + 0.04 nA 20 + 0.04 nA 20 wA/A + 0.1 nA 20 + 0.8 nA 20 + 5 nA 20 + 0.05 pA 35 + 0.5 0.11 + 0.01 mA
	+(10 A to 100 A)	5.1 mA 0.05A
	+ (100 A to 1000 A)	15 mA/A + 2A
	0 to 3.3 mA 3.3 to 33 mA 33 to 330 mA 330 mA 1.1to3A	95 0.3 mA 2mA
	0 nA to 100 nA 100 nA to 10 pA 10 pA to 10 mA 10 mA to 100 mA	4.6 pA/A + 1.2 pA 0.6 + 1 nA + 0.03 1.2 + 0.06 mA
	105to 200A	1.7A
	0.1 W to 1 kw 1 kW to 20 kW	0.1 mW 0.1 kW
	0 to 100 nA 0.1 UA to 100 pA 100 WA to 10 mA 10 mA to 100 mA 100 mA to 1A	0.6 pA/A + 0.3 pA 30 pA/A + 0.07 nA 30 nA/A + 0.5 nA 30 nA/A + 0.1 0.1 + 0.2 UA
	0 mA to 300 pA 300 to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 1.1A 1.1Ato3A	0.1 pA 4.0 pA 0.1 mA 0.3 mA 2.0 mA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105to 200A	1.7A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to 1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105 to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to 1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105 to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to 1A	0.07 pA
	0 to 3.3 mA	None
	0 nA to 100 nA	4.6 pA/A + 1.2 pA
	105 to 200A	1.7A
	0.1 W to 1 kw	0.1 mW
	0 mA to 300 pA	0.1 pA
	100 mA to 1A	0.07 pA
	0 mA to 10 mA 10 mA to 20 mA	5.6
	0 mA to 10 mA 10 mA to 20 mA	None
	0 to 320 pA 0.32 mA to 3.2 mA 3.2 mA to 32 mA 32 mA to 320 mA 0.32	0.000021 mA + 0.025 mA/A 0.00060 mA + 0.026 mA/A 0.0026 mA + 0.043 mA/A 0.14 mA + 0.14 mA/A 0.14 mA + 0.14 mA/A 18 mA + 0.80
	0 to 100 pA 100 pA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1A	0.0000047 mA + 0.023 mA/A 0.000036 mA + 0.025 mA/A 0.00065 mA + 0.026 mA/A 0.0040 mA + 0.043 mA/A 0.14 mA + 0.14 mA/A
	1A to 3A	2.6 mA + 1.4 mA/A
	0 A to 320 pA 0.32 mA to 3.2 mA 3.2 mA to 32 mA 32 mA to 320 mA 0.32 A to 3.2A	0.026 mA/A + 0.0000059 mA 0.027 mA/A + 0.00054 mA 0.043 mA/A + 0.00059 mA 0.14 mA/A + 0.018 mA 0.29 mA/A + 0.11 mA 0.58 + 0.55 mA
	16A to 16A 10 Hz to 440 Hz 10 Hz to 440 Hz	None
	0 to 100 pA 100 to 1mA to 10 mA 10 mA to 100 mA 100 mA to 1A	0.023 mA/A + 0.0000024 mA 0.027 mA/A + 0.0000083 mA 0.026 mA/A + 0.00053 mA 0.044 mA/A + 0.00083 mA 0.14 mA/A + 0.019 mA
	1A to 3A	1.5 + 0.82 mA
	0.2A to 1A	0.2 mA/A - 0.8 PA
	33 mA to 330 mA	0.12 mA/A + 2.9 PA
	33 mA to 330 mA	0.12 mA/A + 2.9 pA
	100 pA to 1 mA to 10 mA	23 + 5.7 nA 23 + 57 nA
	None	None
	19 1kQ 10 kQ 100 kQ 1MQ 10 MQ 100 MQ	None

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	to	0.5mAVA + 1.1nA
	to	0.5mAVA + 8.9nA
	to 1mA	+
	1mA to 10mA	+
	10mA to 100mA	+
	100mA to 1A	+ 0.22mA
	1A to 3A	1.2mA/A +
	10 mA to 100 mA 100 mA to1A	0.33 0.66 mA/A
	1Ato3A	0.87 mA/A
	0 UA to 220 pA	40 + 6 nA
	3.3A to 10.999A 11A to 29.999A	0.34mA/A + 6OMA 0.75mA/A +
	30A to 109.999A 110A to 205A	55mA + 41mA 2.5mA/A +
	205A to 549.995A 550A to 1025A	4.0mA/A + 0.44A 4.4mA/A + 0.20A
	3.3A to 10.999A	None
	45Hz to 1kHz	None
	11A to 29.999A	None
	45Hz to 1kHz	None
	32.9999mA to 329.999mA to 1.0999A	78uA/A+2.0UA 0.16mA/A+31UA
	1.1A to 2.99999A	None
	2.99999A to 10.9999A	None
	11A to 20.5A	None
	0 mA to 10 mA 10 mA to 100 mA 100 mA to1A 1Ato3A	0.45 + 5.8 nA 0.45 mA/A + 0.07 pA 0.2 mA/A + 0.66 0.2 + 8.52 0.4 + 0.08 mA
	0 mA to 10 mA 10 mA to 100 mA 100 mA to1A 1Ato3A	0.5 mAVA + 0.23 mA
	0 mA to 10 mA 10 mA to 100 mA 100 mA to1A 1Ato3A	None
	0 mA to 10 mA 10 mA to 100 mA 100 mA to1A 1Ato3A	None
	0.1Ato 100A	0.07 mA/A + 4.2 mA
	0.1Ato 100A	None
	0.1Ato 100A	None
	0 UA to 220 pA	0.94 nA/A + 7.8 nA
	220 UA to 2.2 mA	8.6 nA/A + 24 nA
	2.2 mA to 22 mA	87 + 0.21
	22 mA to 220 mA	1.5 + 3.4
	220 mA to 2.2A	18 + 48 LA
	10 pA	0.2
	10 to 100 pA	37 +
	100 pA to 1mA	30 + 6 nA
	1 mA to 10 mA	30 + 52 nA
	10 mA to 100 mA	47 + 0.6
	100 mAtto1A	0.1 + 5 pA
	0 to 3.3 mA	0.1 pA
	0 to 33 mA 0 to 330 mA 0to22A 0to11A	2.1 0.1mA 1.2mA 7.8mA

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	100 pA	None
	+10 to +100 pA	16 nA
	-100 pA 10 pA	16 nA
	+100 to +1 mA	69 nA
	-1 mA to -100 pA	69 nA
	10 mA	None
	+1 +10 mA	0.7
	-10 mA to -1 mA	0.7 UA
	100 mA	None
	+10 mA to +100 mA	None
	-100 mA to -10 mA	None
	1A	None
	+100 mA to +1A	0.1 mA
	-1 A to -100 mA	0.1 mA
	110 to 330 MQ	(of reading)
	0 to 3.3 mA mA 0 to 330 mA 0 to 22A	0.5 pA 0.1mA 1.4mA
	0 to 3.3 mA mA 0 to 330 mA 0 to 22A	11mA
	+10 to +100 pA -100 pA 10 pA	16 nA 16 nA
	1mA	None
	+100 A to +1 mA	74nA
	mA to -100 pA	74nA
	10 mA	None
	+1 mA to +10 mA	0.7 pA
	-10 mA to -1 mA	0.7 pA
	100 mA	None
	+10mA to +100 mA	8 yA
	-100 mA to -10 mA	8 yA
	1A	None
	+100 mA to +1A	0.2mA
	-1 A to -100 mA	0.2mA
	0 to 330 pA	170 + 23 nA
	330 UA to 3.3 mA	113 + 57 pA
	3.3 mA to 33 mA	113 + 0.29 PA
	33 mA to 330 mA	113 PA/A + 2.8 LA
	330 mA	227 + 45 pA
	1.1A to 3A	429 + 48 LA
	3A to 10A	567 + 562 PA
	3A to 10A	None
	330 A + (0 pA to 330 A)	+ 0.02
	3.3 mA mA to 3.3 mA)	0.12 + 0.05
	33 mA + (0 mA to 33 mA)	0.12 mA/A PA
	330 mA + (0 mA to 330 mA)	0.12
	1.1A +(0A to	0.23 mA/A + 47 PA
	3A +(1.1A to 3A)	0.46 mAVA + 0.11 mA
	11A	0.58 mA/A + 0.58 mA
	20.5A +(11A to 20.5 A)	1.2 mA/A + 0.87 mA

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	200 (0.1 A to 199.99	13 + 0.6 nA
	2mA (0.2 mA to 199.99 mA)	13 + 0.006 pA
	20 mA (2 mA to 19.999 mA)	16 + 0.06
	200 mA (20 mA to 199.99 mA)	55 + 0.98
	2A (0.2 A to 1.9999 A)	0.21 mA/A + 18
	20A (2 A to 19.999 pA)	0.46 mAVA + 0.46 mA
	330 pA + (0 pA to 330 pA)	0.17 mMA/A + 0.02 pA
	3.3 mA mA to 3.3 mA)	0.12 + 0.05 pA
	33 mA + (0 mA to 33 mA)	0.12 0.3 pA
	330 mA + (0 mA to 330 mA)	0.12
	1.1A +(0Ato	0.23 mA/A + 47 pA
	3A	0.46 + 0.11 mA
	11A	0.58 mA/A + 0.58 mA
	20.5A +(11A to 20.5A)	+ 0.87 mA
	200 pA (0.1 pA to 199.99 yA)	13 nA
	2mA (0.2 mA to 199.99 mA)	13 + 0.006
	(2 mA to 19.999 mA)	16 + 0.06 pA
	200 mA (20 mA to 199.99 mA)	55 + 0.98
	2A (0.2 A to 1.9999 A)	0.21 18 pA
	20A (2 A to 19.999 pA)	0.46 mA/A + 0.46 mA
	0 to 100 pA 0.1 mAto1mA	0.058%of 0.035%of rdg+0.0004mA
	50 to 500 pA	0.06%of rdg+0.21
	0 to 100 pV 0 to 0 to 10 mV 0 to 100 mV 0to1V 0 to 10 V 0 to 100 V 0 to 1000 V	None
	0 to 100 pA 0to1mA 0 to 10 mA 0 to 100 mA 0to1A	0.013 pA 0.00013 mA 0.0016 mA 0.028 mA 0.000028 A
	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 0.330 A 0.330 A 2.2Ato11A	0.17 0.13 0.15 mA/A 0.37 mMA/A 0.71 mMA/A
	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 0.330 A 0.330 A 2.2Ato11A	None
	11 A to 550 A (current coil)	None
	11 A to 550 A (current coil)	None
	0.029 mA to 330 mA	See Matrix B
	0.33 Ato 2.2A	None
	10 Hz to 45 Hz	2.5mA/A
	45 Hz to 1 kHz 1 kHz to 5 kHz	None
	100 mA to1A 1Ato3A	1.3mA/A
	100 mA to1A 1Ato3A	None
	100A	None
	100A	None
	0 mA to 24 mA	0.95 mA/A
	0 mA to 24 mA	None
	0 mA to 24 mA	12mQ/Q
	10 Q to 100 Q	\$.8mQ/Q

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	100 mAt01A 1Ato3A	1.3mA/A 1.6mA/A
	100 mAt01A 1Ato3A	None
	100A	2.5mA/A
	100A	None
	100A	None
	100A	None
	50 to3A	See Matrix F
Dc Voltage	10 V to 100 V	(68 +10 mV)
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 mV to 200 mV 200 mV to 2.2 V 2.2Vto11V	0.002 mV 0.01 mV 0.09 mV
	0 to 330 mV	15
	None	None
	0 mV to 329 mV 0.329 V to 3.29 V	0.006 mV 0.02 mV
	0 to 330 mV	15
	None	None
	0 mV to 329 mV 0.329 V to 3.29 V	0.006 mV 0.02 mV
	0 to 330 mV 330 mV to 3.3 V	12 0.1 mV
	0 to 330 mV 0to3.3V	15 0.1 mV
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 to 330 mV	12
	0 to 330 mV	15
	None	None
	0 mV to 100 mV 0.1Vto1V 1Vto10V	1.6
	OkV to2 kV 2kV to5 kV 5 kV to 10 kV	1.3V 7.9V 11V
	10 kV to 15 kV	None
	15 kV to 20 kV	16V
	0 to 330 mV	12
	0 to 330 mV	15
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	0 mV to 100 mV 0.1Vto1V	0.06 mV 11.3 mV
	1Vto10V	16.5 mV
	0 mV to 100 mV 0.1Vto1V	0.04 mV 1.5 mV
	1Vto10V	
	0 mV to 100 mV 0.1Vto1V	None
	1Vto10V	
	0 mV to 100 mV 0.1Vto1V	None
	1Vto10V	
	0 mV to 100 mV 0.1Vto1V	None
	1Vto10V	
	to 60 V	50 + 0.0034 V
	3 V to 100 V	10 uV/V + 40 pV
	3.3 V to 33 V	14 uV/V + 22
	3.3 V to 33 V	14 uV/V + 22
	1Vto10V	9.5 + 0.57
	None	None
	100mV to 1V	+ 6.2UV
	1V to 10V	+
	10V to 100V	+ 1.2mV
	100V to 300V	+ 24mV
	0 mV to 220 mV	7.5 + 0.4
	Omv to 329.9999mV	16uV/V+0.78uV
	329.9999mV to 3.299999V	8.6uV/V+1.6uV
	3.299999V to 32.99999V	9.3uV/V+16uV
	32.99999V to 329.9999V	None
	329.9999V to 1020.00V	14uV/V+1.2mV
	329.9999V to 1020.00V	None
	QUA to 329.9999UA	0.12mA/A+16nA
	to 3.299999mA	None
	3.299999mA to	78uA/A+0.20UA
	0 mV to 100 mV 100 mV to1V 1 V to 10V 10 V to 100 V 100 V to 1000 V	0.03 mV/V + 3.5 pV 0.025 mV/V + 8.65 pV 0.025 mV/V + 0.08 mV 0.04 mV/V + 0.95 mV 0.04 mV/V + 10.6 mV
	1 V to 250 V	0.1V
	0 V to 220 mV	4.2
	220 mV to 2.2 V	6.1 + 1.1
	2.2Vto11V	5.1 + 2.0
	11V 22 V to 220 V 220 V to 1100 V	5.0 uV/V + 3.2 7.4 + 28 8.9 + 0.31 mV
	100 mV	None
	+ 100 to + 100 mV	1.8
	-100 mV to - 100	1.8
	iV	None
	+100 mV to1V	None
	-1 V to -100 mV	None
	10 V	None
	+1Vto+10V	0.1 mV

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	-10Vto-1V	0.1 mV
	100 V	None
	+10V to +100 V	None
	-100 V to -10 V	1mV/V
	1000 V	None
	+ 100 V to + 1000 V	12 mV
	- 1000 V to -100 V	12 mV
	0 to 330 mV 0to3.3V	30 0.2 mV
	0 to	2.2mV
	33 to 330 V	24 mV
	330 to 1000 V	110 mV
	100 mV	None
	+ 100 to + 100 mV	None
	-100	None
	1V	None
	+100 mV to1V	0.12 mV
	-1 V to -100 mV	0.12 mV
	10V	None
	+1Vto+10V	None
	-10V to-1V	None
	100 V	None
	+10V to +100 V	None
	-100 V to -10 V	None
	1000 V	None
	+ 100 V to + 1000 V	17 mV
	- 1000 V to -100 V	17 mV
	0 to 100 mV	0.004%of rdg+0.004mV
	0 to 50 mV	0.05%of rdg+0.005mV
	30 V to 329 V	0.066 mv /V
	329 V to 1020 V	0.066
	1 mV to 33 V	See Matrix A
	1 mV to 33 V	None
	33 V to 330 V	None
	45 Hz to 1 kHz	0.6 mV/V
	1 kHz to 10 kHz	0.92 mV/V
	1 mV to 100 mV 100 mV to 1V	0.098 mV /V 0.054 0.046 0.059
	1Vto10V 10 V to 100 V 100 V to 1000 V	0.064 mV /V
	1 kV to 30 kV	23 mV/V
	1 kV to 30 kV	None
	1 kV to 30 kV	None
	1 kV to 30 kV	None
	0V to	0.58
	1 mV to 100 mV 100 mV to 1 V	0.17 mV/V 0.10 mV/V 0.096 mV /V
	1Vto10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	0.10 mV/V 0.11 mV/V 23 mV/V

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	1 mV to 100 mV 100 mV to 1 V 1Vto10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	0.17 mV/V 0.10 mV/V 0.096 mV /V 0.10 mV/V 0.11 mV/V 23 mV/V
	1 mV to 100 mV 100 mV to 1 V 1Vto10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	None
	1 mV to 100 mV 100 mV to 1 V 1Vto10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	None
	1 mV to 100 mV 100 mV to 1 V 1Vto10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	None
	10 mV to 750 V	See Matrix E
	10 mV to 750 V	None
	750 V to 1000 V	None
Devices And Package Elements	Corrosion Test (Salt Atmosphere)	MIL-STD-883L (Method 1009.8) (2019)
	Corrosion Test (Salt Atmosphere)	MIL-STD-883L (Method 1009.8) (2019)
Double-capped Led	Full Type Test except clause	IEC 62776:2014
Ed Modules For Generallighting	Full Type Test	IEC 62717:2014+AMD1:2015 +AMD2:2019
Electrical And Electronic	None	None
Electronic Product	0.1 A/M to 4 A/M	None
	Surge Test	IEC 61000-4-5
	-30 °C to 80 °C	Clause 3.3
	33% RH to 98% RH	Dated 15/10/2010)
	Temperature Cycle Test -" -40 °C to 130 °C	IEC 60068-2-14 Ed 6.0 (2009-01) Test Nb
	Rapid Change of Temperature Test	IEC 60068-2-14 Ed 6.0 (Na & Nc)
	Cold Test	IEC 60068-2-1 Ed 5.2 (Aa & Ab)
	Damp Heat Steady State Test	Test instruction reference to IEC
Finished Electrical And Fitting For Led Modules For General Lighting	0.1 Ato5.0A	None
	Full Type Test	IEC 62031:2008+AMD1:2012+AMD2:2014 (Clause 22 -•Photobiological
Fixtures, Light Control	None	None
Flux	Surface Insulation Resistance (s/r)	IPC-TM 650: Rev B 2.6.3.3 (2004) 2.6.3.6 (2004); 2.6.3.7 (2007)
Gears, Cfl, Automotive, General And Particular	None	None
	Full Type Test	IEC 62722-1:2014
General And Safety	Full Type Test	IEC 61347-1:2015
General Purpose Luminaires, Recessed	None	MS IEC 60598-1: 2006 BS EN 60598-1: 2008
Instrument	1Vto10V	(42 mV)
	10 Hz to 60 Hz	None
	5Ato15A	(0.75 mA/A +0.051 A)

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	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Up to 6.1g	0.032 mg
	None	None
	None	None
	None	None
	100 kHz to 26.5 GHz	None
	None	None
	None	None
	None	None
	0.03 to 0.33 mA	None
	1.0 to 33 mV	None
	None	None
	100 yA	None
	None	None
	None	None
	None	None
Interchangeability And	G5 Bi-pins caps	None
Lamp Caps And Holder	E27 Screw caps	IEC 60061-1Edition 3.35 2005-01
Lamp Fitting For Fixed	Full Type Test	IEC 60598-1:2014 IEC 60598-1:2008
Lamp Fitting For Lamp Control Gear For Use On	Full Type Test	IEC 61347-2-13: 2014+AMD1:2016 MS IEC 61347-2-13: 2011
Lamp Fitting For Led Lamp Holders	Full Type Test	IEC 60838-2-1:2008 MS IEC 60838-2-1 :2008
Lamp Fitting For Self Ballasted Single Capped Led Lamps For General	Full Type test	IEC 62560: 2011+AMD1:2015 MS IEC 62560: 2012 BS EN 62560: 2012
Lamps Designed To Retrofit	16	None
Led Assembly, Light	None	None

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Led Luminaires	None	None
Ledluminaires	None	None
Leds, Solid State	Full Type Test	IEC 62384:2020
	IP Testing	IEC 60529:1989 +AMD1:1999
Leds, Solid State Lightings, Led Lamps,	Full Type test	IEC 62612:2013+AMD1:2015 +AMD2:2018
Lighting Products: 1 Led	Full Type Test	IES LM 79: 2019 IES LM 80: 2008
Lightings, Led Lamps,	None	+AMD2:2013
Lightings, _led Lamps,	None	None
Linear Flourecentlamps -"	None	None
Luminaire	None	None
Luminaire, Street Lamps, Christmas Light	None	AS/NZS 60598.1 IEC 60598-2-1:1987
Medical And	None	None
Microelectronics Devices, Leads, Welds &seals	Lead Integrity	MIL-STD-883L (Method 2004.7) (2019)-" Test Condition A
	Lead Integrity	MIL-STD-883L (Method 2004.7) Test Condition A
Or A.c. Up To 1000v	None	None
Performance	None	None
Printed Circuit Board Assembly	Changes of Temperature -65°C to 175°C	IEC 60068-2-14 Ed 6.0 (2009-01) (Na, Nb, Nc)
	Damp Heat -40°C to 150°C	IEC 60068-2-30 Ed 3.0 (2005-08)
	Changes of Temperature -65°C to 175°C	IEC 60068-2-14 Ed 6.0 (2009-01) (Na, Nb, Nc)
	Damp Heat -40°C to 150°C	IEC 60068-2-30 Ed 3.0 (2005-08)
Products	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Bend Performance	Clause 7.2.4 e
	Lithium, Li Vanadium,V	001 with reference to USP 39 and USP 40
	None	nicotinic acid and nicotinamide in
	None	None
	phthalate, DIBP	None
	Dibutyl phthalate, DBP	006, with reference to ISO 8124-
	None	None
	None	None

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	L03-007-Determination of Aflatoxin
	None	G03-123(1)-Detection of Maize in
	None	G03-143(1)-Detection of Event-Specific
	None	G03-143(2)-Detection of Event-Specific
	None	G03-143(3)-Detection of Event-Specific
	None	G03-143(5)-Detection of Event-Specific
	None	G03-143(4)-Detection of Event-Specific
	NoneNone	None
	None	
	None	None
	Ultimate Tensile Strength e	(ref no: QA/METAL/05)
	None	None
	Monosodium Glutamate	F024 by HPLC Fluorescence
	None	None
	None	None
	None	None
	None	None
	None	None
	None	None
	Aerobic Plate Count	None
	Total Coliform Count	FDA-BAM, Ed, Chap 4
	Fecal Coliform	None
	Salmonella spp.	FDA-BAM, Ed, Chap 5
	- Sulphate	BS 1377, 1990-Part 3 Section 5
	- pH Value	BS 1377, 1990-Part 3 Section 9
	- Loss on Ignition	BS 1377, 1990-Part 3 Section 4
	Average Grain Size Measurement	Method)
	- Rockwell Method	ASTM E18: 20
	Break Test (Filled Weld)	None
	Properties Measured /	Method/
	Total Plate Count	Plating
	Coliform	Determination of Coliform & E.coli
	Escherichia Coli	(Pour Plate Method) - AOAC
	Escherichia Coli	performance tested. Certificate no.
	Escherichia Coli	020902
	Coliform	AOAC 998.08. Edition,
	Escherichia Coli (Petrifilm)	2019/Petrifilm
	Staphylococcus Aureus (Petrifilm)	AOAC 2003.11. 21% Edition,
	Staphylococcus Aureus (Petrifilm)	2019/Petrifilm
	Salmonella (Petrifilm)	AOAC 2014.01. 21% Edition,
	Salmonella	2019/Petrifilm
	Salmonella	FDA BAM Chapter 5. 2020;

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	(Alpha Tocopherol, Alpha Tocotrienol,	70, No. 12, December 1993/HPLC
	Beta Tocotrienol, Gamma Tocotrienol,	None
	Delta Tocotrienol)	None
	Phytosterols Content	EvTM_0008/HPLC
	(Sitosterol, Stigmasterol)	None
	Plant Squalene	EvTM_0007/HPLC
	Solvent Residue	EvTM_0005/GC Headspace
	(Hexane, Ethyl Acetate, Methanol,	None
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Benzo A Pyrene	EvTM_0004, Based on AOCS Cd
	Benzo A Pyrene	21 - 91, 5 th Edition (2003)
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Mixed Carotene	None
	Mixed Carotene	EvTM_0150/HPLC
	Solvent Residue	EvTM_0151/GC-HS
	(Hexane, Ethyl Acetate, Methanol,	None
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	None	None
	2,6-Di-Tert-Butyl Hydroxytoluene	EvTM_0049/GC
	Tocotrienol, Beta Tocotrienol,	1993/HPLC
	Gamma Tocotrienol, Delta	None
	Tocotrienol)	None
	Benzo A Pyrene	EvTM_0114, Based on AOCS Cd
		21-91, 5 th Edition (2003)
	Mixed Carotene	EvTM_0115/HPLC
	Mixed Carotene	EvTM_0116/UV-VIS
	Lycopene Content	EvTM_0118/UV-VIS
	Plant Squalene	EvTM_0124/HPLC
	Phytosterols Content (Sitosterol,	EvTM_0125/HPLC
	Stigmasterol)	
	Solvent Residue (Hexane, Ethyl	EvTM_0126/GC HS
	Acetate, Methanol,	
	Isopropanol, Dichloromethane,	None
	Ethanol)	None
	Moisture	AOCS Ca 2e - 84, Edition
	Moisture	(2003)
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds	BP 2020/Volume
	Count	XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative	BP 2020/Volume

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Bacteria	XVI B
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	IV/Appendix XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	Total Aerobic Microbial Count	XVI B
	Total Combined Yeasts/ Moulds Count	BP 2020/Volume XVI B
	Coliform Count	FDA BAM Chapter 4, 2020
	Bile-Tolerant Gram-Negative Bacteria	BP 2020/Volume XVI B
	Detection of Specific Microorganism	BP 2020/Volume
	Pseudomonas aeruginosa	XVI B
	Staphylococcus aureus	None
	Escherichia coli	None
	Salmonella spp	None
	None	spp. by Real-Time PCR (qPCR) -" SYBR
	None	None
	None	in Soybean by real-Time PCR (qPCR)
	None	DNA (Universal Plant) by Real-Time
	Free Fatty Acids	None
	Moisture and Volatile Matter Hot Plate Method	AOCS Ca 2b-38 (1997) None
	Insoluble Impurities	AOCS Ca 3a-46 (1997)
	Iodine Value of Fats and Oils	None
	Cyclohexane-Acetic Acid Method	AOCS Cd 1d-92 (1997) None
	Slip Melting Point	None
	AOCS Standard Open Tube Melting Point	AOCS Cc 3-25 (1997) None
	Color	AOCS Cc (1997)
Requirement	None	None
Requirements For Lamp	None	MS IEC 61347-1: 2012
Requirements For Lamps And Lightings With Led	None	IEC 62722-2-1:2014
Safety	None	None
Safety Specifications	None	None
Semiconductor, Pcb	None	None
Semiconductor, Printed	Power Frequency Magnetic	IEC 61000-4-8
Source/ Generating	100 mV	(7 +0.09 mV)
	10 V to 100 V	(300 +0.17 V)
	OAt5A	0.051A

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Supplies Up To 250v Or A.c. Up To 1000v	None	None
The Control Of	E14 Screw caps	Measurement with fix gauges
Together With Gauges For	G13 Bi-pins caps	None
Use With Voltage >50v	None	None

SCOPE OF TESTING : ELECTROMAGNETIC COMPATIBILITY (EMC)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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SCOPE OF TESTING : MECHANICAL (ENVIRONMENTAL)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
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CENTRAL LOCATION	QAV Technologies Sdn Bhd 116, Lintang Kampung Jawa MK12 Bayan Lepas 11900 Bayan Lepas, Pulau Pinang , 11900, Pulau Pinang	
FIELD(S) OF CALIBRATION :	HEAT & TEMPERATURE,	

SCOPE OF CALIBRATION : TEMPERATURE AND HUMIDITY

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
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