

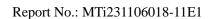
Test Report

- **Report No.:** MTi231106018-11E1
- Date of issue: 2024-03-14
- Applicant: LEXON
- Product: POWERUP
- Model(s): LD151
- FCC ID: 2ARD3-LD151

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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- 2. The test results in this test report are only responsible for the samples submitted
- 3. This test report is invalid without the seal and signature of the laboratory.
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- 5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



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Test Result Certification			
Applicant:	LEXON		
Address:	125 avenue des Champs-Élysées 75008 Paris France		
Manufacturer:	LEXON		
Address:	125 avenue des Champs-Élysées 75008 Paris France		
Product description			
Product name:	POWERUP		
Trademark:	LEXON		
Model name:	LD151		
Series Model(s):	N/A		
Standards:	47 CFR Part 15C		
Test Method:	ANSI C63.10-2013		
Date of Test			
Date of test:	2023-11-27 to 2023-12-12		
Test result:	Pass		

Test Engineer	:	Monleerh Deny
		(Maleah Deng)
Reviewed By	:	(con chen
		(Leon Chen)
Approved By	:	Tom Kne
		(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	POWERUP	
Model name:	LD151	
Series Model(s):	N/A	
Model difference:	N/A	
Electrical rating:	Input: DC 9V 2A Wireless Output: 5W,7.5W,10W,15W	
Accessories:	Cable: USB-C to USB-C cable	
Hardware version:	V5.0	
Software version:	v2.21	
Test sample(s) number:	MTi231106018-11S1001	
RF specification		
Operating frequency range:	115-205KHz	
Modulation type:	ASK	
Antenna(s) type:	Coil Antenna	

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless Output(5W)
Mode2	Wireless Output(7.5W)
Mode3	Wireless Output(10W)
Mode4	Wireless Output(15W)
Mode5	Stand by



1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list					
Description	Model	Serial No.	Manufacturer		
wireless charging load	YBZ1.1	/	YBZ		
MI CHARGE	MDY-08-EH	YJ2808215006999	MI		
Support cable list					
Description Length (m) From To					
/	/	/	/		

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	±5%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15C	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15C	47 CFR Part 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR Part 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone: (86-755)88850135	
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
	Conducted Emission at AC power line					
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2023-04-26	2024-04-25
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2023-05-05	2024-05-04
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2023-06-03	2024-06-02
		20dB Oc	cupied Bandwid	lth		
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2023-04-26	2024-04-25
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2023-04-25	2024-04-24
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2023-04-25	2024-04-24
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2023-04-25	2024-04-24
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2023-04-26	2024-04-25
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2023-04-26	2024-04-25
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2023-05-05	2024-05-04
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2023-04-25	2024-04-24
9	DC Power Supply	Agilent	E3632A	MY40027695	2023-05-05	2024-05-04
		Emissions in frequ	iency bands (bel	low 30MHz)		
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25
	Emissions in frequency bands (30MHz - 1GHz)					
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2023-04-26	2024-04-25
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2023-06-11	2025-06-10
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2023-06-26	2024-06-25
5	Multi-device Controller	TuoPu	TPMDC	/	2023-05-04	2024-05-03



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be
	considered sufficient to comply with the provisions of this section.

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.



6 Radio Spectrum Matter Test Results (RF)

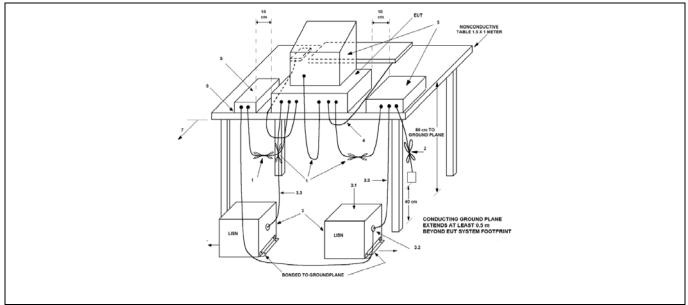
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).					
Test Limit:	Frequency of emission (MHz)	IV)				
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-306050*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2013 section 6.2					
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power- line conducted emissions from unlicensed wireless devices					

6.1.1 E.U.T. Operation:

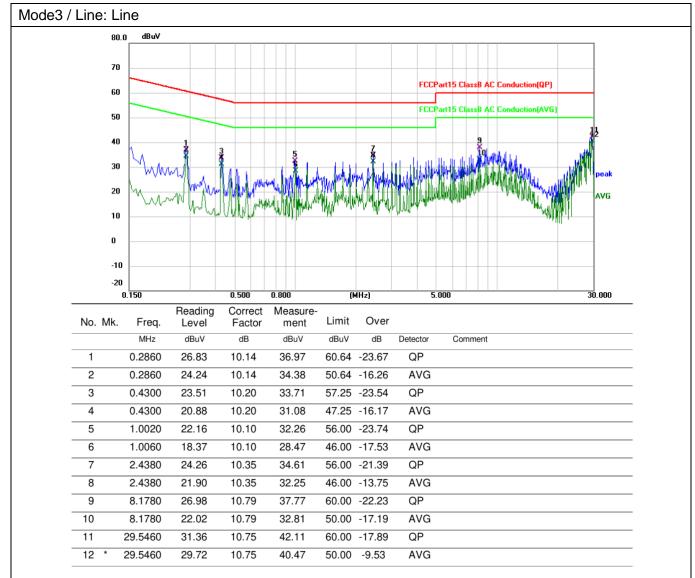
Operating Environment:							
Temperature:	25.9 °C		Humidity: 44 % Atmospheric Pressure: 101 kPa				
Pre test mode:		Mode1, Mode2, Mode3, Mode4, Mode5					
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report					of the worst mode		

6.1.2 Test Setup Diagram:

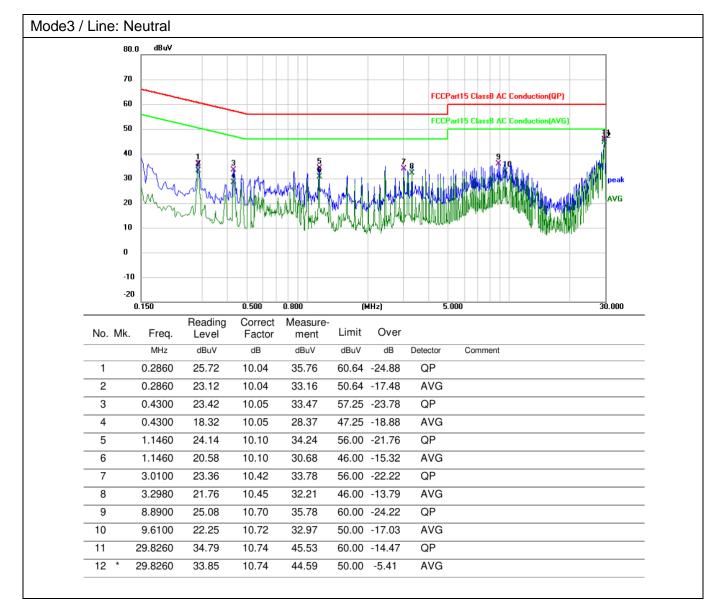




6.1.3 Test Data:









6.2 20dB Occupied Bandwidth

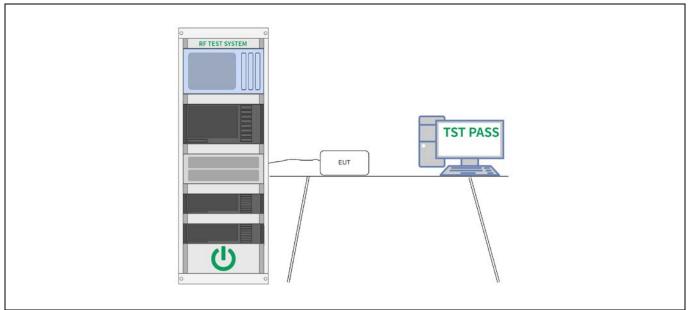
Test Limit:Refer to alternat 15.217 ensure otherwis operate sectionTest Method:ANSI CProcedure:a) The s center f shall be b) The s 5% of th times R c) Set th from ex general (OBW/F d) Step tolerand e) The o than 10	R Part 15.215(c) o 47 CFR 15.215(c), intentional radiators operating under the tive provisions to the general emission limits, as contained in §§
Procedure: a) The scenter f shall be b) The s 5% of th times R c) Set th from ex general (OBW/F d) Step tolerand e) The o than 10	through 15.257 and in subpart E of this part, must be designed to that the 20 dB bandwidth of the emission, or whatever bandwidth may ise be specified in the specific rule section under which the equipment es, is contained within the frequency band designated in the rule under which the equipment is operated.
center f shall be b) The 5% of th times R c) Set th from ex general (OBW/F d) Step tolerand e) The o than 10	C63.10-2013, section 6.9.2
at the s reference f) Set d g) Dete carrier of spectrue the refer h) Dete Alternation of the ir i) If the the EUT trace or Otherw j) Place frequent or slight marker as possible betwee of the et below the delta fue delta m amplitue	spectrum analyzer center frequency is set to the nominal EUT channel frequency. The span range for the EMI receiver or spectrum analyzer e between two times and five times the OBW. nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to the OBW and video bandwidth (VBW) shall be approximately three RBW, unless otherwise specified by the applicable requirement. the reference level of the instrument as required, keeping the signal acceeding the maximum input mixer level for linear operation. In I, the peak of the spectral envelope shall be more than [10 log RBW)] below the reference level. Specific guidance is given in 4.1.5.2. bs a) through c) might require iteration to adjust within the specified



6.2.1 E.U.T. Operation:

Operating Environment:								
Temperature:	32.4 °C		Humidity: 59 % Atmospheric Pressure: 100 kPa					
Pre test mode:		Mode1, Mode2, Mode3, Mode4, Mode5						
Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report					of the worst mode			

6.2.2 Test Setup Diagram:





6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Frequency kHz	20 dB	occupied band Hz	dwidth	99% oc	cupied bandwidt Hz
133.85		813		694	
Agilent Spectrum Analyzer - Occupied BW LX RF 50 Ω DC Center Freq 133.850 kHz	Center	SENSE:INT SOURCE OFF Freq: 133.850 kHz ree Run Avg Hol - 10 dB	Rad d: 10/10	58:25 AMNov 27, 2023 io Std: None io Device: BTS	Frequency
To dB/div Ref 0.00 dBm Log -10.0 -20.0 -30.0 -30.0 -40.0					Center Freq 133.850 kHz
-50.0 -60.0 -70.0 -80.0 -90.0 -90.0 Center 133.9 kHz				Span 5 kHz	25 Stor
#Res BW 300 Hz	#\	VBW 1 kHz		eep 68.07 ms	CF Step 500 Hz Auto Man
Occupied Bandwidth	694 Hz	Total Power	-17.2 dB	m	FreqOffset
Transmit Freq Error x dB Bandwidth	-16 Hz 813 Hz	OBW Power x dB	99.00 -20.00 d		0 Hz



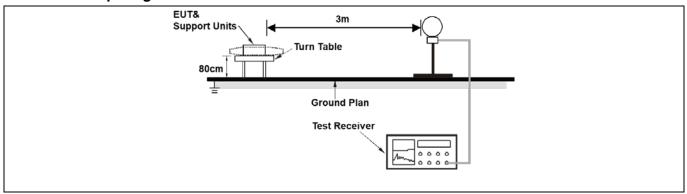
6.3 Emissions in frequency bands (below 30MHz)

olts/meter) kHz) F(kHz)	Measuremen t distance (meters) 300 30 30 30 3 3				
kHz) F(KHz)	(meters) 300 30 30 30 3 3 3				
kHz) F(kHz)	300 30 30 30 3 3 3				
F(KHZ)	30 30 3 3 3				
	30 3 3				
	3 3				
	3				
	-				
	3				
	3				
limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB u					
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB und any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.					

6.3.1 E.U.T. Operation:

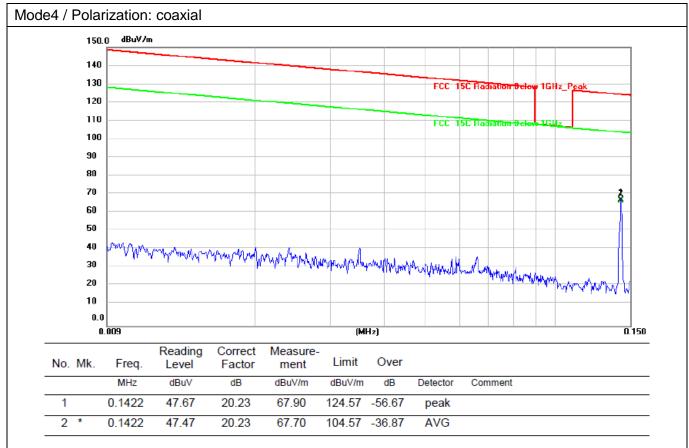
Operating Environment:						
Temperature: 22.5	Humidity: 43 % Atmospheric Pressure: 101 kPa					
Pre test mode:	Mode1, Mode2, Mode3, Mode4, Mode5					
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report						

6.3.2 Test Setup Diagram:

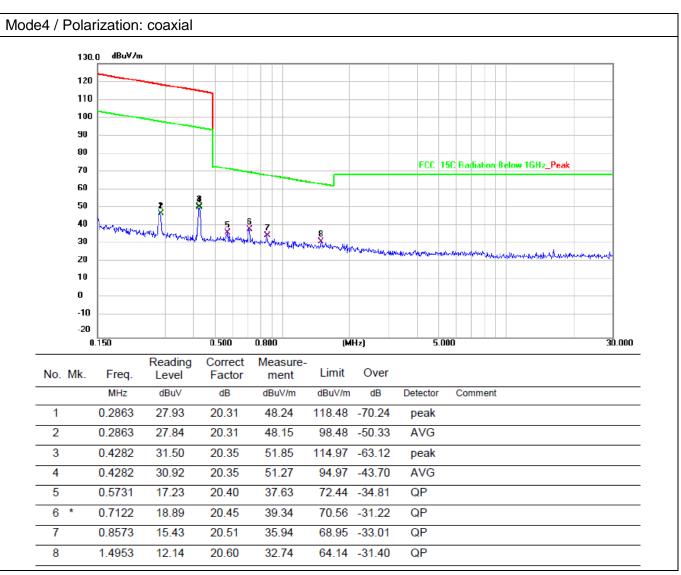




6.3.3 Test Data:









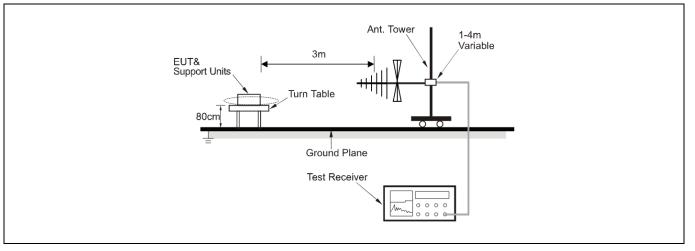
6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209						
Test Limit:	Frequency (MHz)	Field strength	Measuremen				
		(microvolts/meter)	t distance				
			(meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30 100 **	30				
	30-88	3					
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960 500 3						
Test Method: Procedure:	 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB unany condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth. 						

6.4.1 E.U.T. Operation:

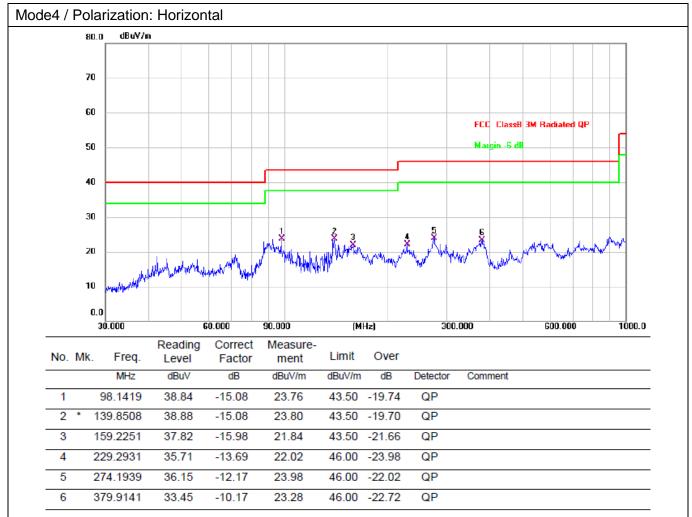
Operating Environment:							
Temperature:	22.5 °C	Humidity: 43 % Atmospheric Pressure: 101 kPa					
Pre test mode:		Mode1, Mode2, Mode3, Mode4, Mode5					
Final test mode:All of the listed pre-test mode were tested, only the data of the worst mode (Mode4) is recorded in the report					of the worst mode		

6.4.2 Test Setup Diagram:

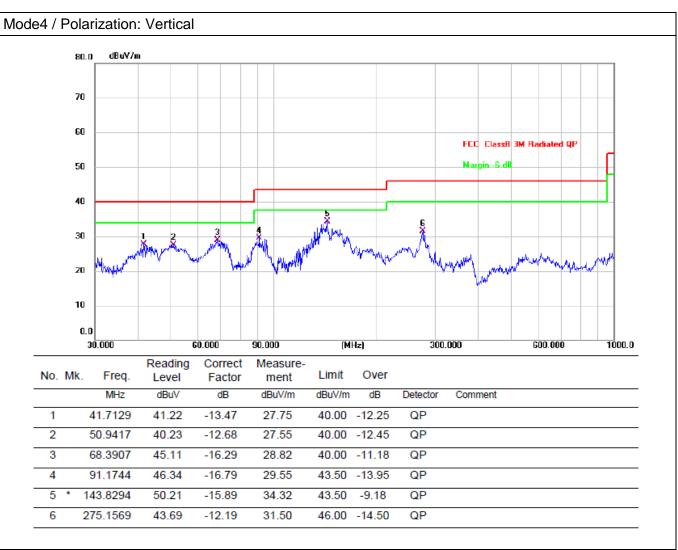




6.4.3 Test Data:









Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----