

Variant FCC Test Report

Report No.: RFBDYS-WTW-P20110097

FCC ID: 2AWUU6040001

Test Model: AD31-HW

Received Date: Nov. 04, 2020

Test Date: Nov. 11, 2020 ~ Nov. 14, 2020

Issued Date: Nov. 20, 2020

Applicant: Verkada Inc.

- Address: 405 E. 4th Ave., San Mateo, CA 94401, USA
- Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
- Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
- **Test Location:** No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RFBDYS-WTW-P20110097	Original Release	Nov. 20, 2020



1 Certificate of Conformity

Product:	Verkada Reader
Brand:	Verkada
Test Model:	AD31-HW
Sample Status:	Engineering Sample
Applicant:	Verkada Inc.
Test Date:	Nov. 11, 2020 ~ Nov. 14, 2020
Standards:	47 CFR FCC Part 15, Subpart C (Section 15.247)
	ANSI C63.10:2013

This report is issued as a supplementary report to BV CPS report no.: RF200619C17. This report shall be used by combining with its original report.

Lena Wang

Prepared by :

Lena Wang / Specialist

Approved by :

Dylan Chiou / Senior Project Engineer

Date: Nov. 20, 2020

Date: Nov. 20, 2020



2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (Section 15.247)						
FCC Clause	Test Item	Result	Remarks				
15.207			Meet the requirement of limit. Minimum passing margin is -19.61 dB at 0.41965 MHz.				
15.205 & 209			Meet the requirement of limit. Minimum passing margin is -6.13 dB at 66.86 MHz.				
15.247(d)	15.247(d) Band Edge Measurement		Refer to Note				
15.247(d)	Antenna Port Emission	N/A	Refer to Note				
15.247(a)(2)	6 dB Bandwidth	N/A	Refer to Note				
	Occupied Bandwidth Measurement	N/A	Refer to Note				
15.247(b)	Conducted Power	N/A	Refer to Note				
15.247(e)	Power Spectral Density	N/A	Refer to Note				
15.203	Antenna Requirement	N/A	Refer to Note				

Note:

1. Only Conducted Emission and Radiated Emissions (below 1GHz) tests was verified on the worst case and recorded in this report. Refer to original report for other test data.

2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
	9 kHz ~ 30 MHz	3.04 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

Product	Verkada Reader
Brand	Verkada
Test Model	AD31-HW
Status of EUT	Engineering Sample
Power Supply Rating	12.0 Vdc (adapter)
Modulation Type	GFSK
Transfer Rate	1 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	40
Antenna Type	PCB antenna with 0 dBi gain
Antenna Connector	N/A
Accessory Device	N/A
Data Cable Supplied	0.17m cable attached on EUT

Note:

- This report is prepared for FCC class II permissive change. This report is issued as a supplementary
 report to BV CPS report no: RF200619C17. The difference compared with original report is removing
 capacitive touch feature including controller (IQS231A) and FPC (Flexible Printed Circuit) sensing
 copper. Therefore, only Conducted Emission and Radiated Emissions (below 1GHz) tests was verified on
 the worst case and recorded in this report.
- 2. The test support units which provided by client is listed as below.

Product	Brand	Model	Description
Adapter	DVE	DSA-12PFT-12 FUS 120100	I/P: 100-240 Vac, 50/60 Hz, 0.5 A O/P: 12 Vdc, 1 A 1.47m power cable without core

- 3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- 4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.

5. BT & NFC & RFID can transmit simultaneously.



3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)						
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Cor	nfigure		Applic	able To	Description	
Мо	de	RE≥1G	RE<1G	PLC	APCM	Description
-		-	\checkmark	\checkmark	-	-
Where	Where RE≥1G: Radiated Emission above 1 GHz RE<1G: Radiated Emission below 1 GHz					
	PLC:	Power Line Con	ducted Emissior	n AP(CM: Antenna Po	rt Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**. **Note:** "-"means no effect.

Radiated Emission Test (Below 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Cont Mod	•	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-		0 to 39	19	GFSK	1

Power Line Conducted Emission Test:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	19	GFSK	1

Test Condition:

Applicable To Environmental Conditions		Input Power	Tested by	
RE<1G 25 deg. C, 65 % RH		120 Vac, 60 Hz	Tim Chen	
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang	



3.3 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.

No.	Product	Brand	Model No.	Serial No.	FCC ID	
1	1. Adapter DVE		DSA-12PFT-12	N/A	N/A	
1.		DVE	FUS 120100	17/7		

No. Signal Cable Description Of The Above Support Units	
1. 1.47m power cable without core provided by client	
Note:	
1. All power cords of the above support units are non-shielded (1.8m).	
3.3.1 Configuration of System under Test	
P -1	
"	
EUT	
(Power from AC Adapter)	
*Test Table	

3.4 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.



4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 16, 2020	Apr. 15, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 06, 2020	Nov. 05, 2021
Fixed Attenuator WORKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
Loop Antenna	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier EMCI	EMC001340	980201	Oct. 21, 2020	Oct. 20, 2021
Preamplifier EMCI	EMC 012645	980115	Oct. 07, 2020	Oct. 06, 2021
Power Meter Anritsu	ML2495A	1012010	Sep. 01, 2020	Aug. 31, 2021
Power Sensor Anritsu	MA2411B	1315050	Sep. 01, 2020	Aug. 31, 2021
RF Coaxial Cable EMCI	EMC104-SM-SM- 8000	171005	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	Oct. 07, 2020	Oct. 06, 2021
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 07, 2020	Oct. 06, 2021
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 10.



4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasipeak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98 %) or 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz. (RBW = 1 MHz, VBW = 10 Hz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

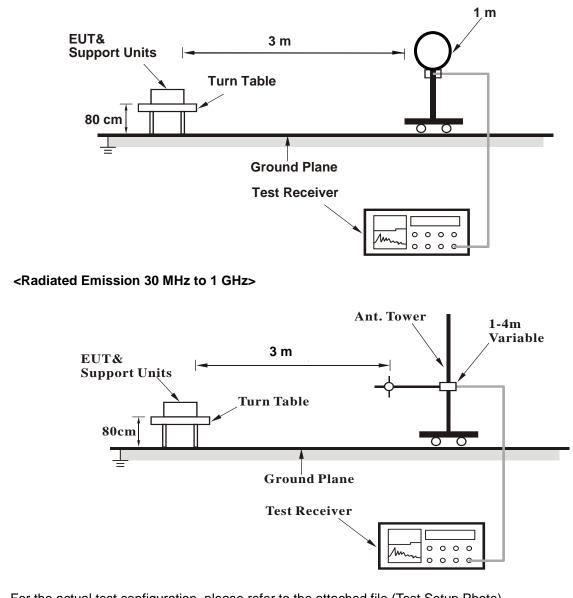
4.1.4 Deviation from Test Standard

No deviation.



4.1.5 Test Set Up

<Radiated Emission below 30 MHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

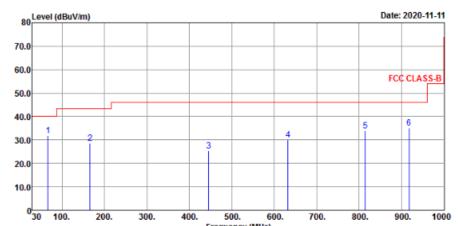
9 kHz ~ 30 MHz Data:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz Worst-Case Data:

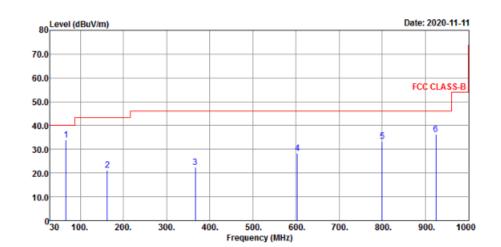
EUT Test Condition		Measurement Detail			
Channel	Channel 19	Frequency Range	30 MHz ~ 1 GHz		
Input Power	120 Vac, 60 Hz	Detector Function	Quasi-peak (QP)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim Chen		

Horizontal





Vertical





	Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level Factor (dBuV) (dB/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark			
66.86	31.98	45.17	-13.19	40	-8.02	116	262	QP			
165.8	28.66	40.66	-12	43.5	-14.84	219	105	QP			
445.16	25.52	32.06	-6.54	46	-20.48	137	298	QP			
632.37	30.07	31.84	-1.77	46	-15.93	113	355	QP			
814.73	33.81	31.77	2.04	46	-12.19	191	193	QP			
917.55	35.24	31.98	3.26	46	-10.76	100	102	QP			
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m					
Frequency (MHz)	Frequency Emission Read Level F		Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark			
66.86	33.87	47.06	-13.19	40	-6.13	191	67	QP			
162.89	21.36	33.12	-11.76	43.5	-22.14	182	233	QP			
366.59	22.52	31.68	-9.16	46	-23.48	111	147	QP			
603.27	28.43	31.07	-2.64	46	-17.57	124	212	QP			
800.18	33.21	31.55	1.66	46	-12.79	140	308	QP			
924.34	36.27	32.93	3.34	46	-9.73	142	308	QP			

Remarks:

1. Emission Level = Read Level + Factor

Margin value = Emission level – Limit value

2. The emission levels of other frequencies were very low against the limit.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

	Conducted Limit (dBuV)					
Frequency (MHz)	Quasi-Peak	Average				
0.15 - 0.5	66 - 56	56 - 46				
0.50 - 5.0	56	46				
5.0 - 30.0	60	50				

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Model No. Serial No.		Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESR3	102412	Feb. 17, 2020	Feb. 16, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2020	Sep. 03, 2021
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 20, 2020	Jan. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Aug. 18, 2020	Aug. 17, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2 (Conduction 2).

3. The VCCI Site Registration No. is C-12047.

4.2.3 Test Procedures

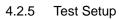
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

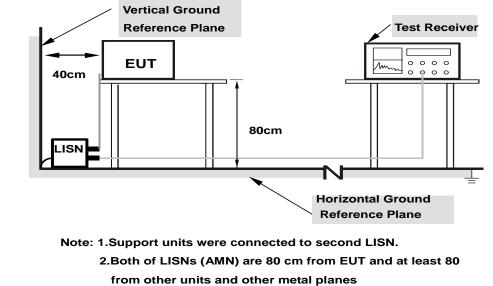
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz - 30 MHz.



4.2.4 Deviation from Test Standard

No deviation.





- 4.2.6 EUT Operating Conditions
- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



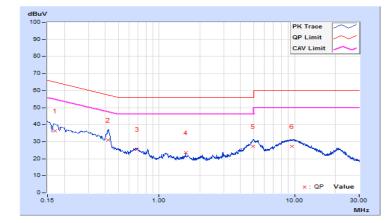
4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Getaz Yang	Test Date	2020/11/14

	Phase Of Power : Line (L)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)		
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16966	10.09	26.23	19.72	36.32	29.81	64.98	54.98	-28.66	-25.17	
2	0.41965	10.10	20.94	17.75	31.04	27.85	57.46	47.46	-26.42	-19.61	
3	0.68938	10.12	15.37	11.22	25.49	21.34	56.00	46.00	-30.51	-24.66	
4	1.57117	10.16	13.41	5.30	23.57	15.46	56.00	46.00	-32.43	-30.54	
5	4.93800	10.24	16.96	9.37	27.20	19.61	56.00	46.00	-28.80	-26.39	
6	9.52350	10.29	16.97	9.42	27.26	19.71	60.00	50.00	-32.74	-30.29	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Getaz Yang	Test Date	2020/11/14

	Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor		g Value uV)	Emission Level (dBuV)						-
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.17025	10.06	24.74	17.52	34.80	27.58	64.95	54.95	-30.15	-27.37	
2	0.41744	10.08	22.47	13.05	32.55	23.13	57.50	47.50	-24.95	-24.37	
3	0.79293	10.11	15.02	8.53	25.13	18.64	56.00	46.00	-30.87	-27.36	
4	1.18050	10.13	14.23	5.45	24.36	15.58	56.00	46.00	-31.64	-30.42	
5	4.96050	10.26	16.56	9.57	26.82	19.83	56.00	46.00	-29.18	-26.17	
6	9.62925	10.38	16.53	9.81	26.91	20.19	60.00	50.00	-33.09	-29.81	

Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab Tel: 886-2-26052180 Fax: 886-2-26051924 Hsin Chu EMC/RF/Telecom Lab Tel: 886-3-6668565 Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab Tel: 886-3-3183232 Fax: 886-3-3270892

Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

The address and road map of all our labs can be found in our web site also.

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