

Variant FCC Test Report

Report No.: RF180802C04A-3

FCC ID: WIYVEGA3000-LTE

Test Model: VEGA3000

Received Date: Mar. 19, 2019

Test Date: May 08, 2019

Issued Date: May 13, 2019

Applicant: CASTLES TECHNOLOGY CO., LTD.

Address: 6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI

CITY 23143, TAIWAN (R. O. C.)

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

(R.O.C)

Test Location: B2F., No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231,

Taiwan, R.O.C

FCC Registration /

427177 / TW0011

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
RF180802C04A-3	Original Release	May 13, 2019

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1 Certificate of Conformity

Product: POS Terminal

Brand: CASTLES TECHNOLOGY

Test Model: VEGA3000

Sample Status: Identical Prototype

Applicant: CASTLES TECHNOLOGY CO., LTD.

Test Date: May 08, 2019

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.: RF180802C04-3. This report shall be used by combining with its original report.

Prepared by : _______, Date: _______, May 13, 2019

Gina Liu / Specialist

Approved by : , **Date:** May 13, 2019

Dylan Chiou / Project Engineer



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)						
FCC Clause	Test Item	Result	Remarks			
15.207	AC Power Conducted Emission	N/A	Refer to Note			
15.247(a)(1) (iii)	I Number of Hopping Frequency Used 1		Refer to Note			
15.247(a)(1) (iii)	Dwell Time on Each Channel	N/A	Refer to Note			
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System		Refer to Note			
15.247(a)(1)	Maximum Peak Output Power	N/A	Refer to Note			
	Occupied Bandwidth Measurement	N/A	Refer to Note			
15.205 & 209 Radiated Emissions		Pass	Meet the requirement of limit. Minimum passing margin is -8.85 dB at 2493 MHz.			
15.247(d) Band Edge Measurement		N/A	Refer to Note			
15.247(d)	Antenna Port Emission	N/A	Refer to Note			
15.203	Antenna Requirement	N/A	Refer to Note			

Note:

- 1. Only radiated spurious emissions tests had been performed for this addendum. 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	Expended Uncertainty (k=2) (±)
	9 kHz ~ 30 MHz	3.04 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~ 1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
Naulateu Emissions above 1 GHZ	18 GHz ~ 40 GHz	1.1508 dB

2.2 Modification Record

There were no modifications required for compliance.

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3 General Information

3.1 General Description of EUT

Product	POS Terminal
Brand	CASTLES TECHNOLOGY
Test Model	VEGA3000
Status of EUT	Identical Prototype
Dawer Comply Dating	5.0 Vdc (adapter or host equipment)
Power Supply Rating	3.7 Vdc (battery)
Modulation Type	GFSK, π/4-DQPSK, 8DPSK
Transfer Rate	1/2/3 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	79
Antenna Type	Dipole antenna with 1.29 dBi gain
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

- 1. This report is issued as a supplementary report to BV CPS report no. RF180802C04-3. The difference compared with original report is changing antenna. Therefore, original report worst case radiated spurious emissions tests had been performed for this report.
- 2. The EUT contains following accessory devices.

Product	Brand	Model	Description
USB Cable	CHANG YANG ELECTRON CO., LTD.	CY-AS-HK0059	1 m

3. 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.

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3.2 **Description of Test Modes**

79 channels are provided to this EUT:

Channel	Freq. (MHz)						
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

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3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure	Applic	able To	Description
Mode	RE≥1G	RE<1G	Description
-	V	V	-

Where

RE≥1G: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

Note:

- 1. For Radiated emission test, pre-tested GFSK, π/4-DQPSK, 8DPSK modulation type and found GFSK was the worse, therefore chosen for the final test and presented in the test report.
- 2. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

Radiated Emission Test (Above 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 Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

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 Configure Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Packet Type
-	0 to 78	78	FHSS	GFSK	DH5

Test Condition:

Tool Collainioni			
Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

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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.

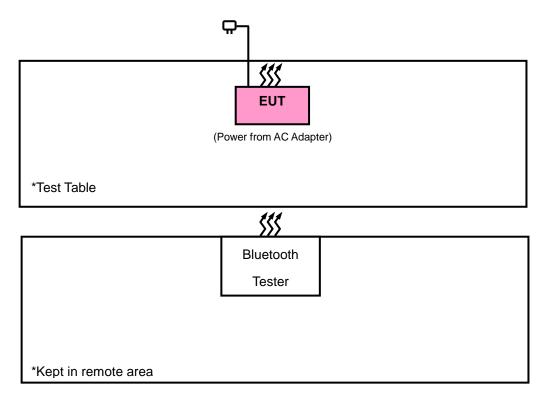
No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Adapter	LUCENT	1A52-UB52A	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

- 1. All power cords of the above support units are non-shielded (1.8m).
- 2. Item 1 was provided by client.

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

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

FCC Part 15, Subpart C (15.247) KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

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

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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:

- a. The lower limit shall apply at the transition frequencies.
- b. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- c. 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.

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4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Aug. 20, 2018	Aug. 19, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 15, 2019	Apr. 14, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-616	Nov. 27, 2018	Nov. 26, 2019
HORN Antenna ETS-Lindgren	3117	00143293	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Nov. 25, 2018	Nov. 24, 2019
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 15, 2019	Apr. 14, 2020
Bluetooth Tester	CBT	100980	Jun. 28, 2017	Jun. 27, 2019
Loop Antenna EMCI	LPA600	270	Aug. 11, 2017	Aug. 10, 2019
Preamplifier Agilent	310N	187226	Jun. 19, 2018	Jun. 18, 2019
Preamplifier Agilent	83017A	MY39501357	Jun. 19, 2018	Jun. 18, 2019
Power Meter Anritsu	ML2495A	1012010	Sep. 05, 2018	Sep. 04, 2019
Power Sensor Anritsu	MA2411B	1315050	Sep. 04, 2018	Sep. 03, 2019
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(RFC -SMS-100-SMS-12 0+RFC-SMS-100-S MS-400)	Jun. 19, 2018	Jun. 18, 2019
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(RFC -SMS-100-SMS-24)	Jun. 19, 2018	Jun. 18, 2019
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	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 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HsinTien Chamber 1.
- 3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.

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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. Both 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 Quasi-peak 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.
- 3. 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 = 1 kHz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

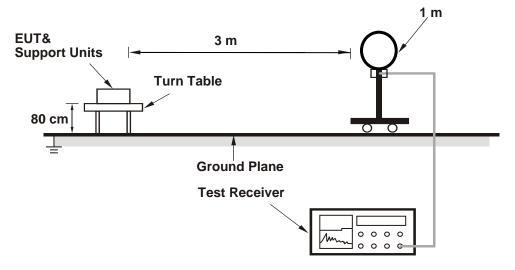
No deviation.

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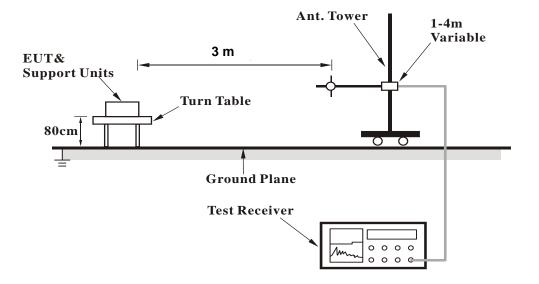


4.1.5 Test Set Up

<Radiated Emission below 30 MHz>

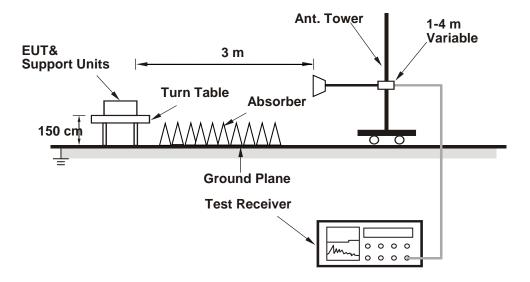


<Radiated Emission 30 MHz to 1 GHz>





<Radiated Emission above 1 GHz>



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

4.1.6 EUT Operating Conditions

Set the EUT under transmission condition continuously at specific channel frequency.

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4.1.7 Test Results

Above 1 GHz Data:

GFSK

EUT Test Condition		Measurement Detail			
Channel	Channel 78	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz		Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao		

Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	97.56	95.6	1.96			100	8	Average
2480	100.04	98.08	1.96			100	8	Peak
2493	45.15	43.13	2.02	54	-8.85	100	8	Average
2493	52.89	50.87	2.02	74	-21.11	100	8	Peak
4960	39.42	31.15	8.27	54	-14.58	147	32	Average
4960	46.76	38.49	8.27	74	-27.24	147	32	Peak
		Antenn	a Polarity 8	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2480	99.58	97.62	1.96			100	251	Average
2480	102.66	100.7	1.96			100	251	Peak
2493.08	44.66	42.64	2.02	54	-9.34	100	251	Average
2493.08	52.62	50.6	2.02	74	-21.38	100	251	Peak
4960	39.78	31.51	8.27	54	-14.22	158	8	Average
4960	46.84	38.57	8.27	74	-27.16	158	8	Peak

Remarks:

- 1. Emission Level = Read Level + Factor Margin value = Emission level – Limit value
- 2. 2480 MHz: Fundamental frequency.
- 3. The emission levels of other frequencies were very low against the limit.

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8DPSK

EUT Test Condition		Measurement Detail		
Channel	Channel 78	Frequency Range	1 GHz ~ 25 GHz	
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)	
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Charles Hsiao	

	Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2480	94.25	92.29	1.96			100	8	Average	
2480	99.65	97.69	1.96			100	8	Peak	
2492.92	44.8	42.78	2.02	54	-9.2	100	8	Average	
2492.92	52.5	50.48	2.02	74	-21.5	100	8	Peak	
4960	41.81	33.54	8.27	54	-12.19	124	7	Average	
4960	46.76	38.49	8.27	74	-27.24	124	7	Peak	
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m			
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2480	96.44	94.48	1.96			100	251	Average	
2480	101.25	99.29	1.96	_		100	251	Peak	
2492.92	44.41	42.39	2.02	54	-9.59	100	251	Average	
2492.92	52.2	50.18	2.02	74	-21.8	100	251	Peak	
4960	41.42	33.15	8.27	54	-12.58	105	111	Average	
4960	46.84	38.57	8.27	74	-27.16	105	111	Peak	

Remarks:

- 1. Emission Level = Read Level + Factor Margin value = Emission level - Limit value
- 2. 2480 MHz: Fundamental frequency.
- 3. The emission levels of other frequencies were very low against the limit.

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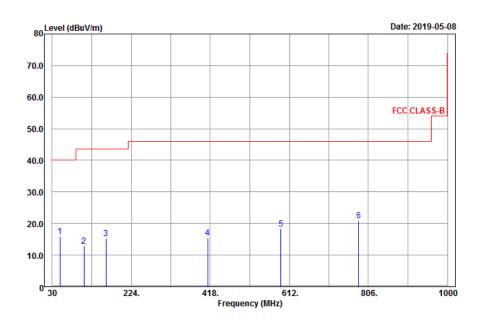
9 kHz ~ 30 MHz Data:

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

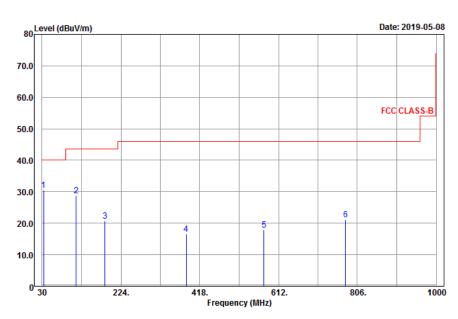
30 MHz ~ 1 GHz Worst-Case Data:

EUT Test Condition		Measurement Detail		
Channel	Channel 78	Frequency Range	30 MHz ~ 1 GHz	
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)	
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee	

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
48.63	15.86	32.62	-16.76	40	-24.14	126	154	Peak
107.76	12.91	31.69	-18.78	43.5	-30.59	104	187	Peak
161.76	15.17	37.09	-21.92	43.5	-28.33	118	195	Peak
412	15.46	30.11	-14.65	46	-30.54	103	214	Peak
591.2	18.23	29.74	-11.51	46	-27.77	163	154	Peak
782.3	20.93	29.59	-8.66	46	-25.07	195	165	Peak
		Antenn	a Polarity &	Test Dista	nce: Vertica	l at 3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
33.78	30.44	50.11	-19.67	40	-9.56	108	157	Peak
114.24	28.75	48.3	-19.55	43.5	-14.75	199	165	Peak
184.71	20.62	41.14	-20.52	43.5	-22.88	185	195	Peak
384.7	16.55	31.7	-15.15	46	-29.45	110	201	Peak
576.5	17.87	29.68	-11.81	46	-28.13	132	165	Peak
776.7	21.05	29.78	-8.73	46	-24.95	105	198	Peak

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.

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5 Pictures of Test Arrangements	
Please refer to the attached file (Test Setup Photo).	

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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

Hsin Chu EMC/RF/Telecom Lab Tel: 886-3-6668565

Tel: 886-2-26052180 Fax: 886-2-26051924

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

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