

FCC Test Report

(Part 90)

Report No.: RFBBGM-WTW-P22010900-3

FCC ID: WIYLE910C1NF

Test Model: LE910C1-NF

Received Date: Feb. 06, 2022

Test Date: Feb. 21 ~ Apr. 08, 2022

Issued Date: Apr. 21, 2022

Applicant: CASTLES TECHNOLOGY CO., LTD.

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

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Test Location (1): No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan

FCC Registration /

Designation Number(1): 788550 / TW0003

FCC Registration /

Designation Number(2): 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
RFBBGM-WTW-P22010900-3	Original release	Apr. 21, 2022

1 Certificate of Conformity

Product: WCDMA and LTE cellular wireless module

Brand:  **CASTLES
TECHNOLOGY**

Test Model: LE910C1-NF

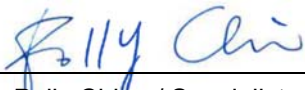
Sample Status: Identical Prototype

Applicant: CASTLES TECHNOLOGY CO., LTD.

Test Date: Feb. 21 ~ Apr. 08, 2022

Standards: FCC Part 90, Subpart I, R

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : , **Date:** Apr. 21, 2022
Polly Chien / Specialist

Approved by : , **Date:** Apr. 21, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 90 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 90.542(a)(7)	Maximum Peak Output Power Limit: max. 3 watts e.r.p peak power	Pass	Meet the requirement of limit.
2.1055 90.539	Frequency Stability	N/A	Refer to Note
2.1049	Occupied Bandwidth	N/A	Refer to Note
90.210(n)	Emission Mask	N/A	Refer to Note
90.543(e)	Band Edge Measurements	N/A	Refer to Note
---	Peak To Average Ratio	N/A	Refer to Note
2.1051 90.543(e)	Conducted Spurious Emissions	N/A	Refer to Note
90.543(e)(2)	Emission in the 769–775 MHz and 799–805 MHz band	N/A	Refer to Note
2.1053 90.543 (e) & (f)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.08dB at 1586.00MHz.
2.1053 90.543(f)	Emissions in the band 1559–1610 MHz	N/A	Refer to Note

Note:

1. This report is a partial report. Therefore, only test item of Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to DEKRA report no.: 1980255R-HPUSP17V00-B & 1980255R-HPUSP17V00-C (LTE Module, Brand: Telit, Model: LE910C4-NF, FCC ID: RI7LE910CXNF).
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) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver Rohde & Schwarz	ESR3	102782	Dec. 10, 2021	Dec. 09, 2022
Spectrum Analyzer Rohde & Schwarz	FSW43	460230	Jan. 07, 2022	Jan. 06, 2023
BILOG Antenna SCHWARZBECK	VULB9168	9168-1213	Oct. 27, 2021	Oct. 26, 2022
HORN Antenna RF SPIN	DRH18-E	210103A18E	Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	9170-1048	Nov. 14, 2021	Nov. 13, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980782	Jan. 17, 2022	Jan. 16, 2023
Preamplifier EMCI	EMC118A45SE	980808	Dec. 30, 2021	Dec. 29, 2022
Preamplifier EMCI	EMC184045SE	980788	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC104-SM-SM- (9000+2000+1000)	201243+ 201231+ 210102	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMCCFD400-NM- NM- (9000+300+500)	201236+ 201235+ 201233	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC101G-KM-KM- (5000+3000+2000)	201260+201257+201254	Jan. 17, 2022	Jan. 16, 2023
Software BV ADT	ADT_Radiated_V7. 6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Max-Full	MF-7802BS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208674	NA	NA
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Dec. 24, 2021	Dec. 23, 2022

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 WM Chamber 8.

3 General Information

3.1 General Description of EUT

Product	WCDMA and LTE cellular wireless module		
Brand			
Test Model	LE910C1-NF		
Sample Status	Identical Prototype		
Power Supply Rating	3.8 Vdc		
Modulation Type	QPSK, 16QAM		
Operating Frequency	LTE Band 14	Channel Bandwidth 5MHz	790.5MHz ~ 795.5MHz
		Channel Bandwidth 10MHz	793MHz
Max. ERP Power	LTE Band 14		QPSK 16QAM
		Channel Bandwidth 5MHz	205.116mW (23.12dBm) 154.170mW (21.88dBm)
		Channel Bandwidth 10MHz	199.067mW (22.99dBm) 147.911mW (21.70dBm)
Antenna Type	Refer to Note		
Accessory Device	NA		
Cable Supplied	NA		

Note:

1. This report is a partial report. Therefore, only test item of Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to DEKRA report no.: 1980255R-HPUSP17V00-B & 1980255R-HPUSP17V00-C (LTE Module, Brand: Telit, Model: LE910C4-NF, FCC ID: R17LE910CXNF). For radiated spurious emission test, the worst mode according to the maximum conducted power reported by the original module.
2. The antenna information of POS Terminal is listed as below.

Antenna Type	Dipole	Brand	Aristotle
Antenna Connector	SMA R/A PLUG	Model	RFA-US-T1000G-2M-A5
Antenna Gain (dBi)	LTE Band 14	2	

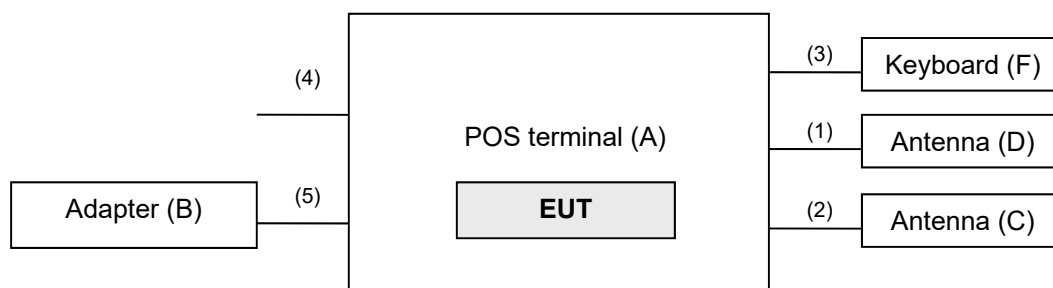
*The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3. The EUT was installed in a specific End-product.

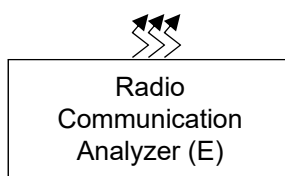
Product	Brand	Model
POS Terminal		UPT1000B

4. The EUT support Category 1 only. Above bandwidth 10MHz of 16QAM modulation supports only 25RB.

3.2 Configuration of System under Test



Remote site



3.2.1 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.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	POS Terminal	 CASTLES TECHNOLOGY	UPT1000B	NA	WIYUPT1000-BV	Provided by client.
B.	Adapter	 CASTLES TECHNOLOGY	PW04-945A	NA	NA	Provided by client.
C.	Antenna	Aristotle	RFA-US-T1000G-2M-A5	NA	NA	Provided by client.
D.	Antenna	Aristotle	RFA-25-T100-41-3M-A2	NA	NA	Provided by client.
E.	Radio Communication Analyzer	Anritsu	MT8820C	6201010284	NA	-
F.	Keyboard	DELL	SK-8115	CN-OJ4635-71616-53-OCAE	FCC DoC Approved	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item E acted as a communication partner to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	ANT cable	1	2	Y	0	Provided by client.
2.	ANT cable	1	3	Y	0	Provided by client.
3.	USB cable	1	1.8	Y	0	-
4.	LAN cable	1	1	N	0	Cat.5e, RJ45
5.	Power cable	1	1.5	-	0	Provided by client.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-plane. Following channel(s) was (were) selected for the final test as listed below:

EUT Configure Mode	Test item	Available channel	Tested channel	Channel Bandwidth	Modulation	Mode
-	ERP	23305 to 23355	23305(790.5MHz), 23330(793.0MHz), 23355(795.5MHz)	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		23330	23330(793.0MHz)	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
-	Radiated Emission below 1GHz	23330	23330(793.0MHz)	10MHz	QPSK	1 RB / 49 RB Offset
-	Radiated Emission above 1GHz	23330	23330(793.0MHz)	10MHz	QPSK	1 RB / 49 RB Offset

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
ERP	23deg. C, 66%RH	120Vac, 60Hz	Adair Peng
Radiated Emission	23deg. C, 69%RH	120Vac, 60Hz	Edison Lee

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 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 47 CFR Part 2

FCC 47 CFR Part 90

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

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

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

EIRP / ERP Measurement:

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is

given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

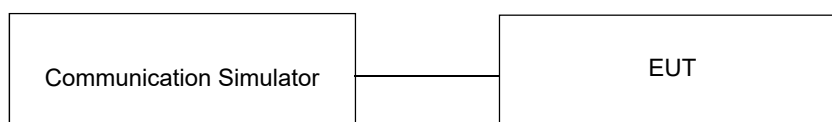
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

LTE Band 14				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	22.66
		1	24	23.14
		1	49	22.96
		25	0	21.71
		25	12	21.66
		25	25	21.64
		50	0	21.57
10M	16QAM	1	0	21.63
		1	24	21.85
		1	49	21.65
		25	0	20.70
		25	12	20.66
		25	25	20.63

LTE Band 14						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	22.51	22.83	22.83
		1	12	22.81	23.27	23.02
		1	24	22.74	22.92	22.83
		12	0	21.69	21.88	21.81
		12	6	21.67	21.87	21.77
		12	13	21.66	21.85	21.73
		25	0	21.51	21.80	21.70
5M	16QAM	1	0	21.81	21.58	21.65
		1	12	21.92	21.82	22.03
		1	24	21.86	21.68	21.85
		12	0	20.68	20.91	20.88
		12	6	20.63	20.85	20.81
		12	13	20.62	20.84	20.79
		25	0	20.59	20.82	20.77

ERP Power (dBm)

LTE Band 14				
BW	MCS Index	RB Size	RB Offset	Mid
		Channel		23330
		Frequency (MHz)		793
10M	QPSK	1	0	22.51
		1	24	22.99
		1	49	22.81
		25	0	21.56
		25	12	21.51
		25	25	21.49
		50	0	21.42
10M	16QAM	1	0	21.48
		1	24	21.70
		1	49	21.50
		25	0	20.55
		25	12	20.51
		25	25	20.48

LTE Band 14						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5M	QPSK	1	0	22.36	22.68	22.68
		1	12	22.66	23.12	22.87
		1	24	22.59	22.77	22.68
		12	0	21.54	21.73	21.66
		12	6	21.52	21.72	21.62
		12	13	21.51	21.70	21.58
		25	0	21.36	21.65	21.55
5M	16QAM	1	0	21.66	21.43	21.50
		1	12	21.77	21.67	21.88
		1	24	21.71	21.53	21.70
		12	0	20.53	20.76	20.73
		12	6	20.48	20.70	20.66
		12	13	20.47	20.69	20.64
		25	0	20.44	20.67	20.62

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

For operations in the 758-768 MHz and 788-798 MHz bands, on any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The emission limit equal to -13dBm .

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

4.2.2 Test Procedure

- a. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. 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.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7.
 - $\text{EIRP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
 - $\text{ERP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

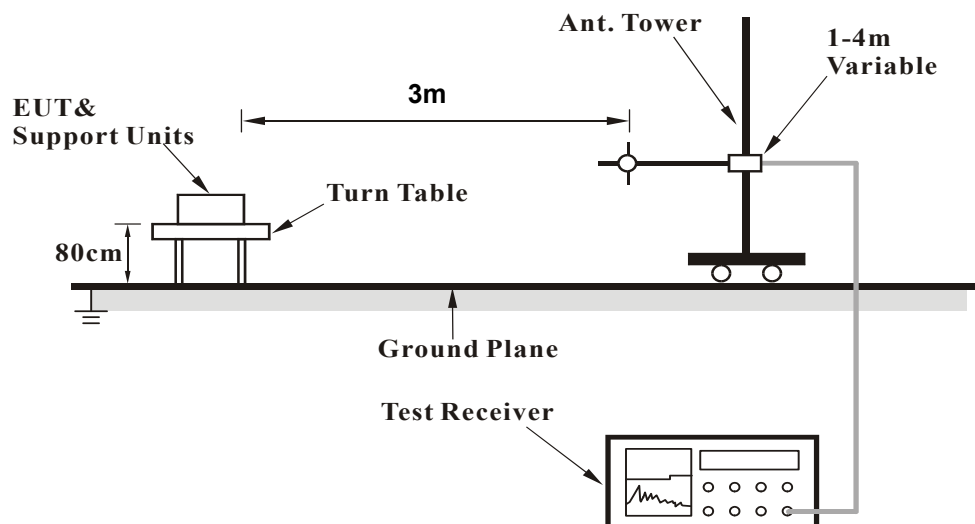
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

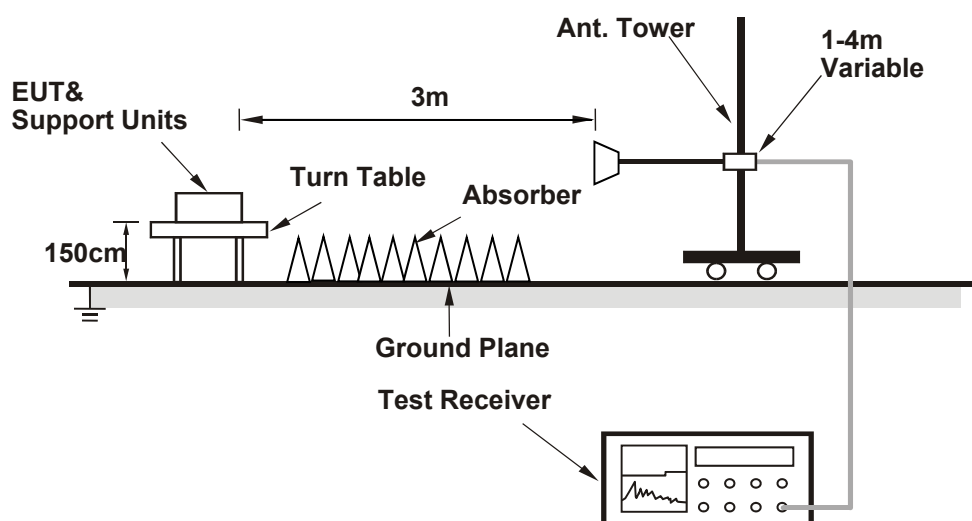
No deviation.

4.2.4 Test Setup

For Radiated Emission below or equal 1GHz



For Radiated Emission above 1GHz



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

4.2.5 Test Results

Below 1GHz

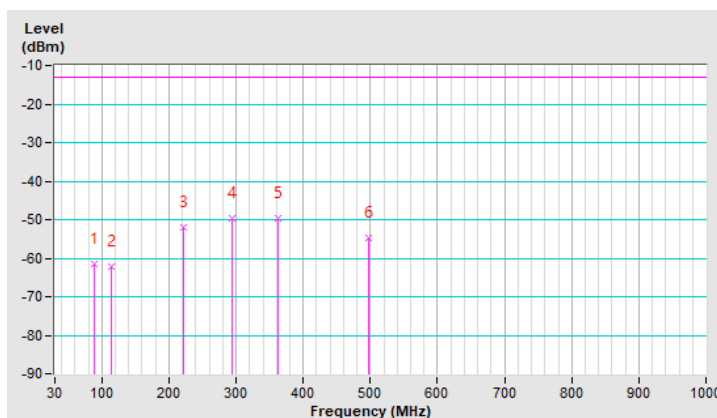
Channel Bandwidth: 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	23deg. C, 69%RH	Input Power	120Vac, 60Hz
Tested By	Edison Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	88.20	-61.52	-13.00	-48.52	2.00 H	175	59.87	-121.39
2	114.39	-62.36	-13.00	-49.36	1.50 H	331	55.94	-118.30
3	221.09	-52.05	-13.00	-39.05	1.00 H	221	66.95	-119.00
4	293.84	-49.80	-13.00	-36.80	1.00 H	242	65.40	-115.20
5	362.71	-49.81	-13.00	-36.81	1.50 H	11	63.79	-113.60
6	496.57	-54.80	-13.00	-41.80	1.50 H	119	55.56	-110.36

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

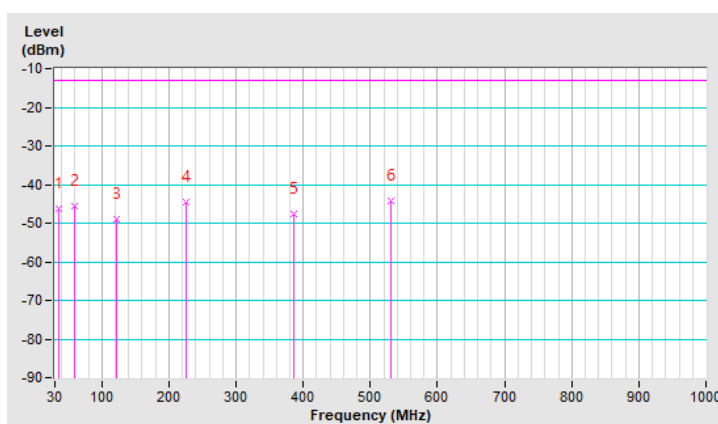


Mode	TX channel 23355 (795.5MHz)	Frequency Range	Below 1000 MHz
Environmental Conditions	23deg. C, 69%RH	Input Power	120Vac, 60Hz
Tested By	Edison Lee		

Antenna Polarity & Test Distance: Vertical at 3 M								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36.79	-46.18	-13.00	-33.18	1.50 V	333	70.64	-116.82
2	60.07	-45.48	-13.00	-32.48	1.00 V	227	70.87	-116.35
3	121.18	-49.12	-13.00	-36.12	1.50 V	23	68.57	-117.69
4	224.97	-44.41	-13.00	-31.41	1.00 V	245	74.48	-118.89
5	385.99	-47.79	-13.00	-34.79	1.50 V	114	65.07	-112.86
6	530.52	-44.33	-13.00	-31.33	1.00 V	243	65.36	-109.69

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB)$
 $+ 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



Above 1GHz

Channel Bandwidth: 10MHz

Mode	TX channel 23330 (793.0MHz)	Frequency Range	1 ~ 18GHz
Environmental Conditions	23deg. C, 69%RH	Input Power	120Vac, 60Hz
Tested By	Edison Lee		

Antenna Polarity & Test Distance: Horizontal at 3 M								
No.	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1586.00	-40.08	-40.00	-0.08	1.31 H	357	61.90	-101.98
Antenna Polarity & Test Distance: Vertical at 3 M								
No.	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1586.00	-47.28	-40.00	-7.28	1.39 V	116	54.70	-101.98

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV/m) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

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 and approved according to ISO/IEC 17025.

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

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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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