

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: Certification Ordinance Article 2-1-19

Report No.: RJBEMI-WTW-P23090647M-3

Product: Electronic Display Device

Brand: Rakuten kobo

Model No.: N365B

Received Date: 2026/3/3

Test Date: 2026/3/12

Issued Date: 2026/5/11

Applicant: NETRONIX, INC.

Address: No. 945, Boai St., Jubei City, Hsin-Chu, 30265, Taiwan

Factory: (1) NETRONIX, INC.
(2) NTX Electronics YANGZHOU CO., LTD.

Address: (1) No. 945, Boai St., Jubei City, Hsin-Chu, 30265, Taiwan
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Approved by: _____, **Date:** 2026/5/11
May Chen / Manager

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Prepared by: Vito Lung / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RJBEMI-WTW-P23090647M-3	Original release.	2026/5/11

1 Certificate

Product: Electronic Display Device
Brand: Rakuten kobo
Test Model: N365B
Sample Status: Engineering sample
Applicant: NETRONIX, INC.
Test Date: 2026/3/12
Standard: Certification Ordinance Article 2-1-19
Measurement procedure: MIC notice 88 Appendix 43

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.

2 Summary of Test Results

Certification Ordinance Article 2-1-19		
Clause	Test Item	Result
OR: Article 7. Annex 3.26	Spurious Emissions	Pass
OR: Article 49-20	Antenna Specifications	Pass
OR: Article 24.2	Spurious Emissions of Receiver	Pass
OR: Article 49-20	Housing Requirements	Pass (Refer to Note 1)

Notes:

1. The relative information refer section 3.1 of this report.
2. OR: Ordinance Regulating Radio Equipment
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
4. This report is prepared for supplementary report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028-1 and ETSI TR 100 028-2:

Parameter	Uncertainty (±)
Occupied Bandwidth	1050.00 Hz
Spurious Emissions	2.5 dB
Output Power Density	1.2 dB
Frequency Tolerance	960 Hz

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description

Product	Electronic Display Device
Brand	Rakuten kobo
Test Model	N365B
Test Software Version	HyperTerminal paste BT_RF_cmd20250310.txt command
Status of EUT	Engineering sample
Power Supply Rating	3.87 Vdc from battery 5 Vdc form USB interface
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	1 Mbps
Operating Frequency	2.402 GHz ~ 2.48 GHz
Number of Channel	40
Housing Requirements	The EUT is constructed as an Electronic Display Device. The housing consists of two parts, and the plastic enclosure was assembled with glue and covered by rubbers, separating the two parts was only possible by means of brute force.

Note:

1. This is a supplementary report of Report No.: RJBEMI-WTW-P23090647F-3. The differences between them are as below information:

◆ Add 4th, 5th, 6th and 7th eMMC. (Refer to Note 5)

2. According to above conditions, the Spurious Emissions (below 1 GHz) need to be performed. And all data were verified to meet the requirements.

3. The EUT must be supplied with a battery as the following table:

Brand	Model	Specification
EVE Energy Co., Ltd	K24051900-297777	Power Rating : 3.87Vdc ; 7.36Wh ; 1900mAh

4. The EUT uses following accessories.

Item	Brand	Model	Supplier Model	Color	Specification	Material	TID number
1st source USB Cable	LUXSHARE-ICT	LB93US002-1R	-	Black	Shielded, 1.0M, without core	PVC	-
2nd source USB Cable	Yih Fone	SH-0846	YF-USB2-A-C-1M(K)	Black	Shielded, 1.0M, without core	TPE	12574
3rd source USB Cable	Yih Fone	SH-0879	YF-USB2-A-C-1M-P(K)	Black	Shielded, 1.0M, without core	PVC	13713

5. The EUT will be supported with the following eMMC and DRAM LP-DDR4 source.

Original		
Item.	Brand	Model
1st source eMMC	Phison	PTE7A0YJ-16GE
2nd source eMMC	Kingston	EMMC16G-PJ30-GA02
3rd source eMMC	FORESEE	FEMDNN016G-A3A55
1st source DRAM LP-DDR4	Nanya	NT6AN256M16AV-J2
2nd source DRAM LP-DDR4	Leahkinn	LTHS0005GS4-ZPI1
3rd source DRAM LP-DDR4	Micron	MT53E256M16D1DS-046
Newly		
Item.	Brand	Model
4th source eMMC	Phison	PTE4A0TE-16GE
5th source eMMC	Kingston	EMMC16G-MW28-GA01
6th source eMMC	Phison	PTE4A0TE-32GE
7th source eMMC	Kingston	EMMC32G-TS0A-GA01

6. There are Bluetooth and WLAN (2.4 GHz & 5 GHz) technology used for the EUT.

7. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)	Bluetooth
2	WLAN (5 GHz)	Bluetooth

8. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
INPAQ	ACM3-3216-P1-CC-S	3.91	2.4~2.5GHz	Chip	none
		3.41	5.15~5.85GHz		

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. Antenna Pattern:

Please refer to the attached file (Antenna pattern).

3.3 Channel List

40 channels are provided for BT-LE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (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

3.4 Power Setting

Channel	Power Setting
0	7
19	7
39	7

3.5 Test Mode Applicability and Tested Channel Detail

Test Conditions	Voltage (Vdc)
V_{normal}	5
$V_{max.}$	5.5
$V_{min.}$	4.5

Pre-Scan:	1. The eMMC has the following models: PTE4A0TE-16GE / EMMC16G-MW28-GA01 / PTE4A0TE-32GE / EMMC32G-TS0A-GA01. Pre-scan these models of eMMC and find the worst case as a representative test condition. 2. 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).
Worst Case:	1. eMMC Worst Condition: PTE4A0TE-16GE

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

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
Spurious Emissions	BT-LE 1M	0, 19, 39	GFSK	1Mb/s
Spurious Emissions of Receiver	BT-LE 1M	0, 19, 39	-	-

Note: Per customer specification, validation testing was conducted on the newly integrated 4th / 5th / 6th / 7th eMMC units (both configured with 1st DRAM). Test results indicated that the 4th eMMC unit exhibited the lowest performance among the new additions.

Note:

In the original report:

- For input voltage of EUT, Worst condition: DC 5V
- USB Cable Worst Condition: LB93US002-1R

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Spurious Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority	Calibration Method
DC Power Supply GOOD WILL INSTRUMENT CO. LTD	GPC-3030D	E847076	Note 2	Note 2	BV CPS E&E	(d)
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10- 01	2025/5/23	2026/5/22	BV CPS E&E	(d)
MXA Signal Analyzer Keysight	N9020B	MY60112408	2026/2/12	2027/2/11	ETC	(c)
Software	ADT_RF Test Software V8	N/A	N/A	N/A	N/A	N/A
True RMS Clamp Meter FLUKE	325	31130711WS	2025/6/12	2026/6/11	ETC	(c)

Notes:

- Calibration method:
 - Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992) Japan Calibration Service System.
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1).
 - Calibration conducted by using other equipment that listed above from a) to c).
- The power supply no evaluation calibrated, which used the FLUKE meter to verify before each testing.
- The test was performed in HC - Oven room 2(Hsinchu).
- Tested Date: 2026/3/12

4.2 Spurious Emissions of Receiver

Refer to section 4.1 to get the tested date and information of the instruments.

5 Limits of Test Items

5.1 Spurious Emissions

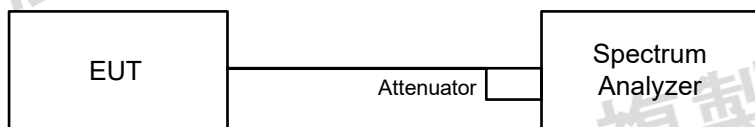
Frequencies	Limit
Operating frequency 2400 to 2483.5 MHz	
30.0 MHz to 1000.0 MHz	$\leq 0.25 \text{ uW/100 kHz}$
1000.0 MHz to 2387 MHz	$\leq 2.5 \text{ uW/MHz}$
2387.0 MHz to 2400.0 MHz	$\leq 25 \text{ uW/MHz}$
2483.5 MHz to 2496.5 MHz	$\leq 25 \text{ uW/MHz}$
2496.5 MHz to 12500.0 MHz	$\leq 2.5 \text{ uW/MHz}$

5.2 Spurious Emissions of Receiver

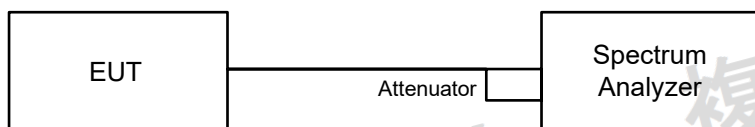
Frequencies	Limit
Below 1 GHz	$\leq 4 \text{ nW}$
Above 1 GHz	$\leq 20 \text{ nW}$

6 Test Arrangements

6.1 Spurious Emissions



6.2 Spurious Emissions of Receiver



7 Test Results of Test Item

7.1 Spurious Emissions

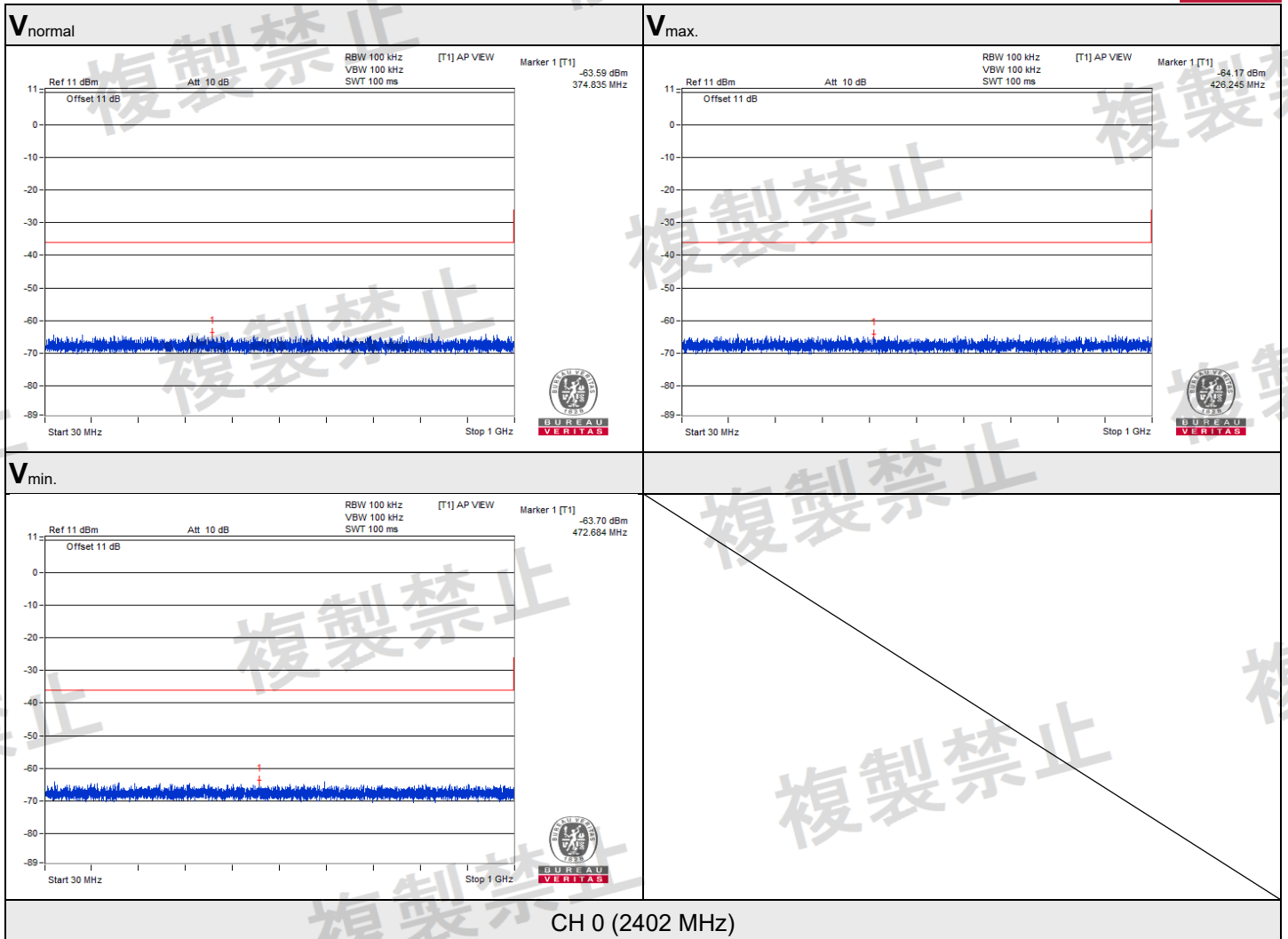
Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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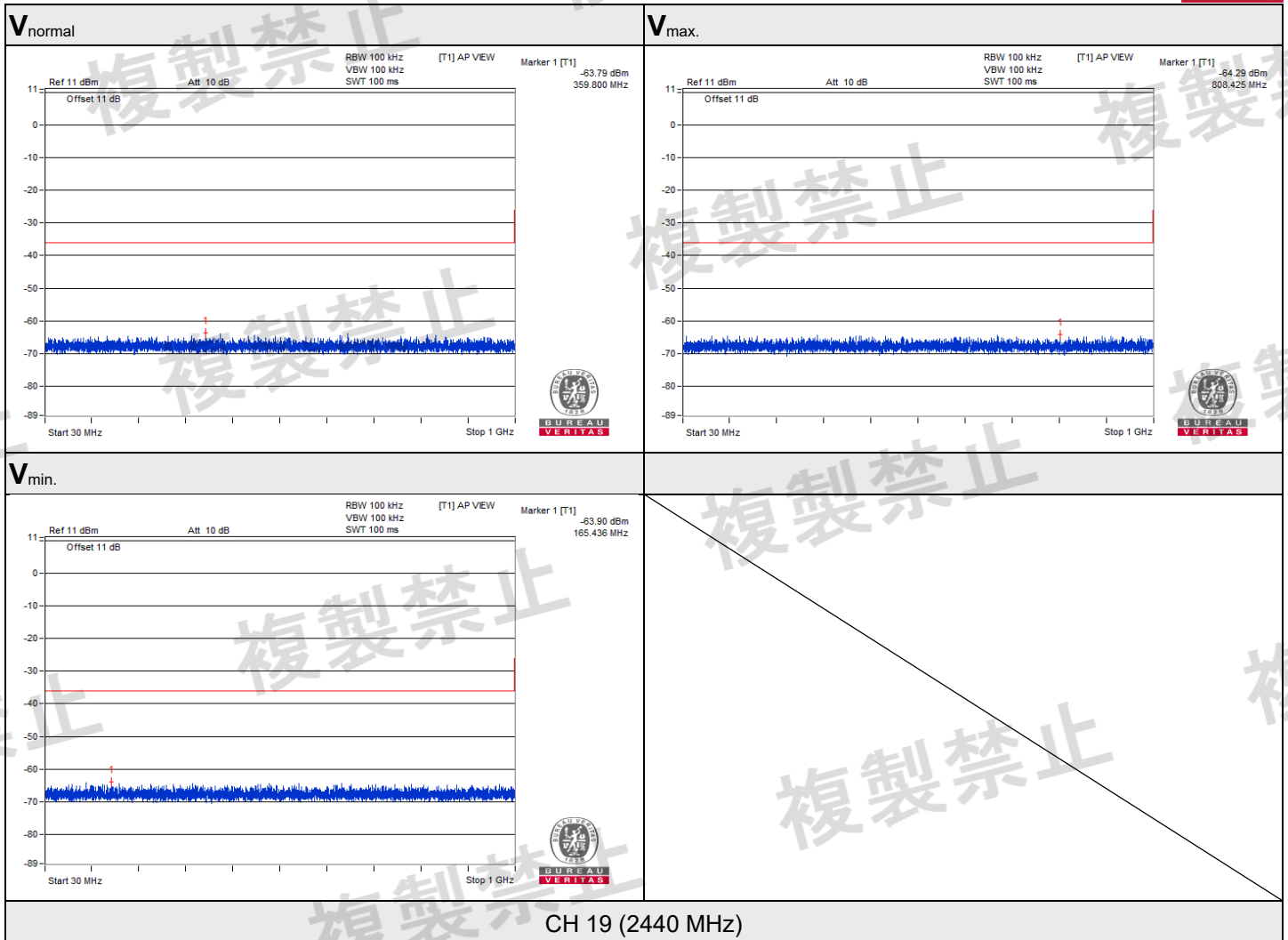
TEST CHANNEL		CH 0 (2402 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE	LIMIT	RESULT
V _{normal}	30.0 to 1000.0	374.835	0.000438 uW/100kHz	0.25 uW/100kHz	PASS
V _{max.}	30.0 to 1000.0	426.245	0.000383 uW/100kHz	0.25 uW/100kHz	PASS
V _{min.}	30.0 to 1000.0	472.684	0.000427 uW/100kHz	0.25 uW/100kHz	PASS
TEST CHANNEL		CH 19 (2440 MHz)			
V _{normal}	30.0 to 1000.0	359.800	0.000418 uW/100kHz	0.25 uW/100kHz	PASS
V _{max.}	30.0 to 1000.0	808.425	0.000372 uW/100kHz	0.25 uW/100kHz	PASS
V _{min.}	30.0 to 1000.0	165.436	0.000407 uW/100kHz	0.25 uW/100kHz	PASS
TEST CHANNEL		CH 39 (2480 MHz)			
V _{normal}	30.0 to 1000.0	253.706	0.000434 uW/100kHz	0.25 uW/100kHz	PASS
V _{max.}	30.0 to 1000.0	572.109	0.00038 uW/100kHz	0.25 uW/100kHz	PASS
V _{min.}	30.0 to 1000.0	914.276	0.000395 uW/100kHz	0.25 uW/100kHz	PASS

NOTE: 1. The spectrum plots are attached on the following pages.



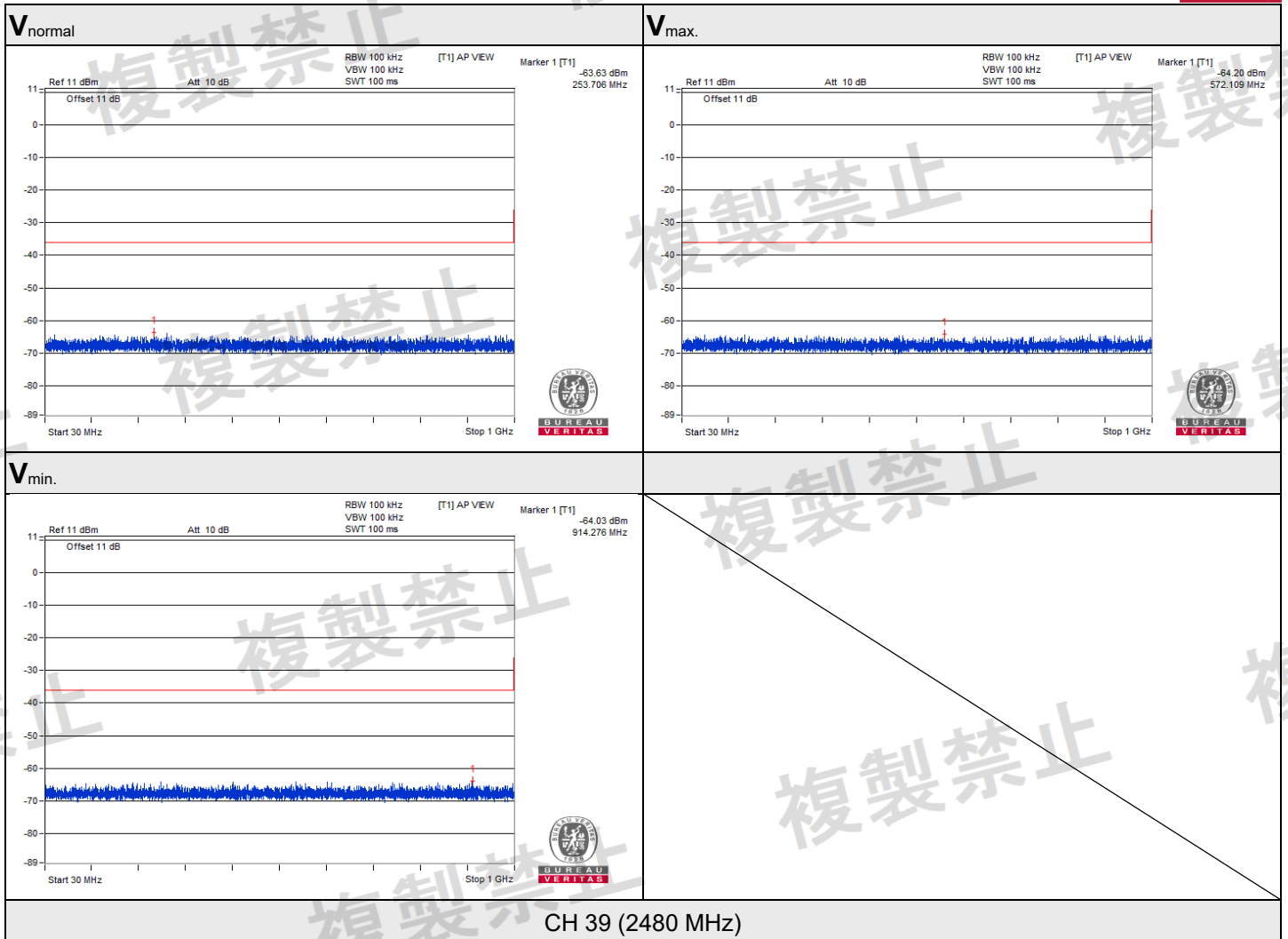
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7.2 Spurious Emissions of Receiver

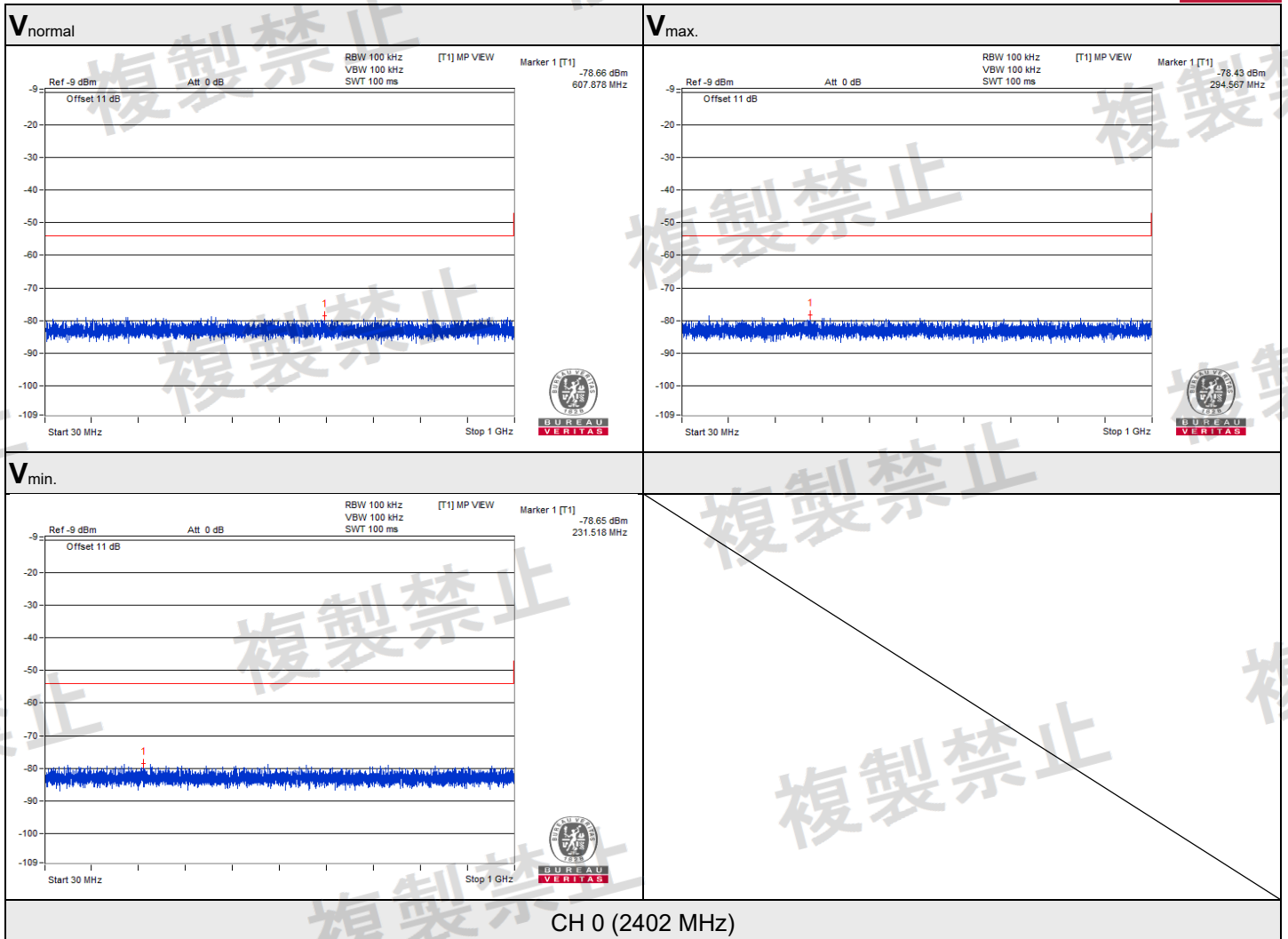
Environmental Conditions:	25°C, 60% RH	Tested By:	Chris Lin
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TEST CHANNEL		CH 0 (2402 MHz)			
TEST CONDITION	FREQUENCY RANGE(MHz)	FREQUENCY (MHz)	MEASUREMENT VALUE(nW)	LIMIT (nW)	RESULT
V _{normal}	30.0 to 1000.0	607.878	0.013614	4	PASS
V _{max.}	30.0 to 1000.0	294.567	0.014355	4	PASS
V _{min.}	30.0 to 1000.0	231.518	0.013646	4	PASS
TEST CHANNEL		CH 19 (2440 MHz)			
V _{normal}	30.0 to 1000.0	946.044	0.016218	4	PASS
V _{max.}	30.0 to 1000.0	410.604	0.016444	4	PASS
V _{min.}	30.0 to 1000.0	36.911	0.015996	4	PASS
TEST CHANNEL		CH 39 (2480 MHz)			
V _{normal}	30.0 to 1000.0	348.645	0.012794	4	PASS
V _{max.}	30.0 to 1000.0	253.827	0.014093	4	PASS
V _{min.}	30.0 to 1000.0	155.615	0.014454	4	PASS

NOTE: 1. The spectrum plots are attached on the following pages.

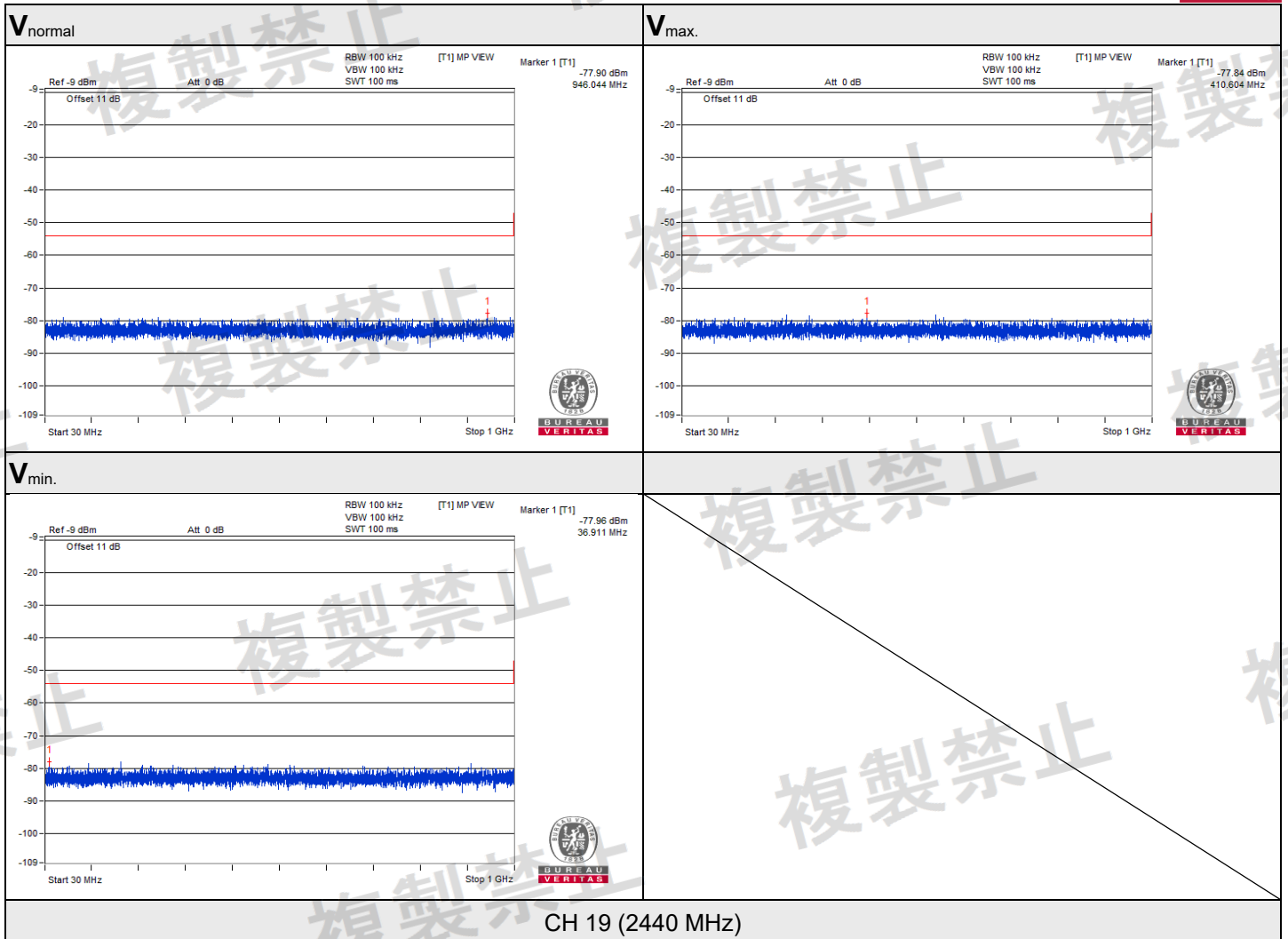


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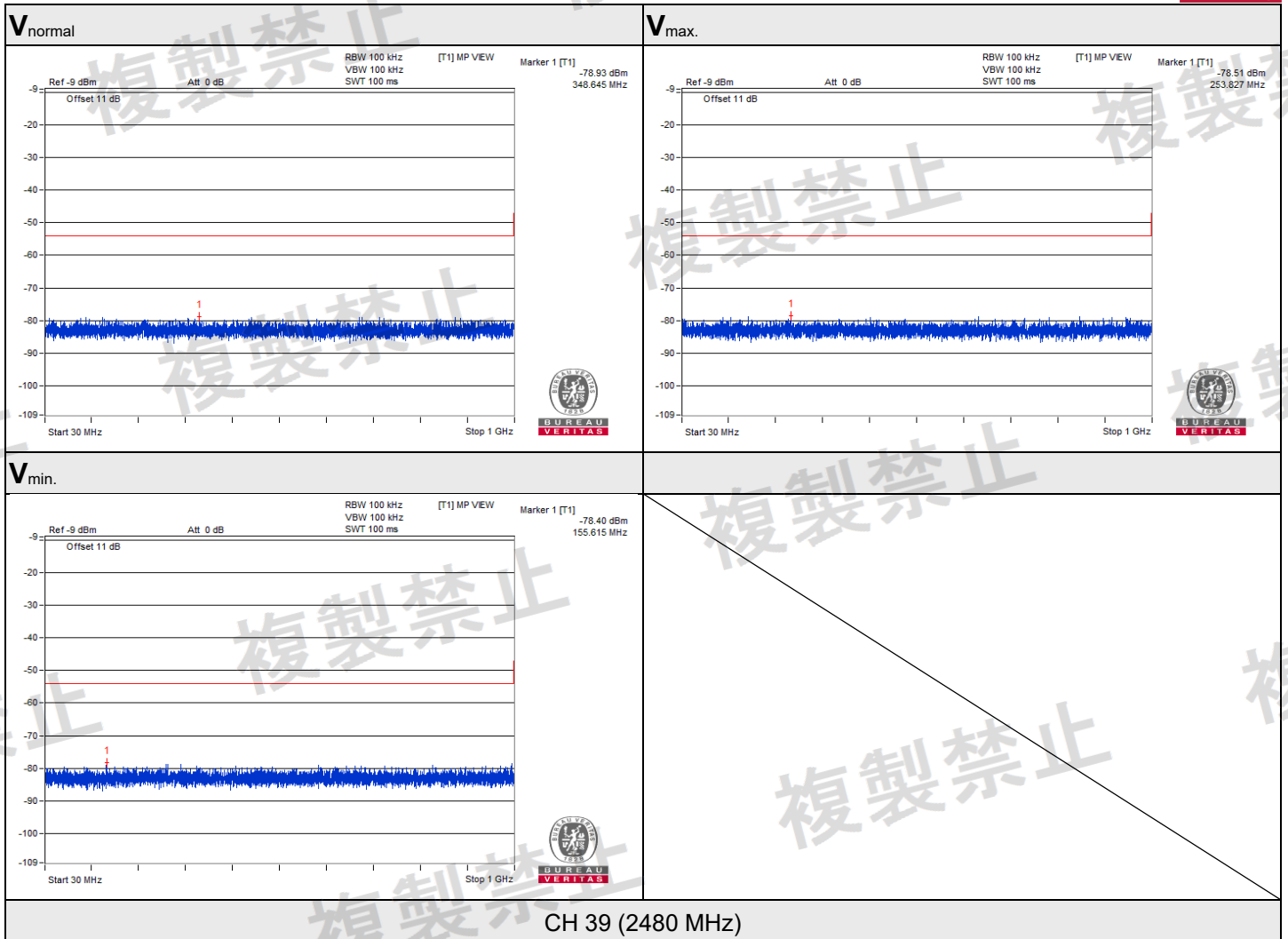


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8 Pictures of Test Arrangements



9 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:

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

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