

Radio Test Report (BT-LE)

Report No.: RJ170322E05F-3

Test Model: ABC1000

Received Date: May 18, 2017

Test Date: May 29 to 31, 2017

Issued Date: Feb. 14, 2019

Applicant: Arlo Technologies, Inc.

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

Issue No.	Description	Date Issued
RJ170322E05F-3	Original release.	Feb. 14, 2019



1 Certificate of Conformity

Product: Arlo Baby

Brand: Arlo

Model No.: ABC1000

Sample Status: ENGINEERING SAMPLE

Applicant: Arlo Technologies, Inc.

Test Date: May 29 to 31, 2017

Standards: ARIB STD-T66 (V3.7), 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 EMC characteristics under the conditions specified in this report.

Prepared by : Mary Ko, **Date:** Feb. 14, 2019
Mary Ko / Specialist

Approved by : May Chen, **Date:** Feb. 14, 2019
May Chen / Manager

2 Summary of Test Results

The EUT has been tested according to the following specifications:

Notice 88 Appendix 43 Reference	ARIB STD-T66 Ref.	Report Reference	Parameter	Test Results (Note)
General Provisions				
C	3.2 (4)	4.1	Frequency tolerance	C
D	3.2 (7)	4.2	Occupied bandwidth	C
E	3.2 (6)	4.3	Spurious emissions	C
Transmitting Equipment				
F	--	4.4	Antenna power	C
--	--	--	SAR	NA
Transmitting Antenna				
--	--	3.5	Type, configuration, etc. of transmitting antenna	C
--	--	3.5	Direction pattern of transmitting antenna	C
Receiving Equipment				
G	3.3 (1)	4.5	Spurious emissions of receiver	C
--	--	3.5	Refer to all articles for transmitting antenna	C
Operating Frequency 2400 to 2483.5MHz				
--	3.7 (1)	3.4	High frequency / modulation section cannot be opened easily	C
--	3.1 (1)	3.1	Communication method	C
--	3.2 (1)a	3.1	Modulation method	C
--	3.2 (1)a	3.1	Spread spectrum method	C
--	3.2 (2)	4.4	Antenna power	C
--	3.6 (2)	4.4	Absolute gain of transmitting antenna	C
--	3.6 (2)	--	Angular width of principal radiation (AWPR)	NA
--	3.2 (10)	--	Number of carriers within 1 MHz bandwidth in OFDM	NA
--	3.2 (8)	--	Spreading bandwidth	NA
--	3.2 (9)	--	Spreading factor	NA
--	3.2 (11)	--	Frequency retention time (FH employed)	NA
--	3.4.1(1)	4.6	Interference Prevention Function	C
--	3.4.1(3)	--	Carrier Sense Capability	NA
Note: C = Conform NC = Not Conform NT = Not Tested NA = Not Applicable				

2.1 Test Instruments

Description & Manufacturer	Model no.	Serial No.	Calibrated Date	Calibrated Until	Calibration Authority
Spectrum Analyzer R&S	FSV40	100964	June 28, 2016	June 27, 2017	ETC
ESG Vector signal generator Agilent	E4438C	MY45094468/005 506 602 UK6 UNJ	Nov. 25, 2016	Nov. 24, 2017	ETC
Detector Narda	4503A	0306	NA	NA	NA
Power Meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018	ETC
Power Sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018	ETC
Digital Oscilloscope R&S	RTO1012	300053	June 28, 2016	June 27, 2017	ETC
DC Power Supply Topward	6603D	795558	NA	NA	NA
Digital Multimeter FLUKE	87III	73680266	Nov. 10, 2016	Nov. 09, 2017	ETC

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. Tested Date: May 29 to 31, 2017

2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in TR 100 028-1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Parameter	Uncertainty
Occupied Bandwidth	703.56 Hz
Spurious emissions	2.52 dB
Output power density	1.37 dB
Out of band radiated power	2.52 dB
Frequency Tolerance	703.56 Hz

2.3 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (BT-LE)

Product	Arlo Baby
Brand	Arlo
Model No.	ABC1000
Status of EUT	ENGINEERING SAMPLE
Nominal Voltage	5Vdc from power adapter or 3.6V from battery
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	up to 1Mbps
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Rated RF Output Power	2 mW
Conducted RF Output Power	1.694 mW
Radiated RF Output Power	3.523 mW
Antenna Type	Refer to section 3.5
Antenna Connector	Refer to section 3.5
Accessory Device	Adapter x 1
Cable Supplied	USB cable x 1 (3m, unshielded)

Note:

- The EUT must be supplied with a power adapter or battery and following different models could be chosen as following table:

Adapter				
No	Brand Name	Model No.	P/N	Spec.
1	arlo	AD2037320	332-50032-02	Input: 100-240Vac, 50/60Hz, 0.3A Output: 5Vdc, 2A

Battery

No	Brand Name	Model No.	P/N	Rating	Min. Capacity
1	arlo	A-3	308-10033-01	3.6V 8.78Wh	2440mAh

Note: The EUT was pre-tested with power from adapter or battery, the worse case was found in battery mode.

- Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth

- 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 Description of Test Modes

40 channels are provided for BT-LE mode:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	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

Note:

- The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

By means of test software (QRCT.EXE V3.0.219.0) provided by manufacture, the power levels during the tests were set according to the following codes:

Channel	Power Setting
0	Default
19	Default
39	Default

3.3 Test Conditions

Test Conditions		Voltage (Vdc)
V_{normal}		3.6
$V_{max.}$	+10%	3.96
$V_{min.}$	-10%	3.24

3.4 Assembly

The RF circuits was located inside of the EUT. The plastic enclosure was assembled by two screws with glue and covered by rubbers, the screw can not be observed directly. Also it won't be easy to be opened.

3.5 Antenna Specifications

3.5.1 Antenna Gain

Chain No.	Ant. Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type
Chain 0	2.64	2.4~2.4835	PIFA	NA
	5.61	5.15~5.25		
	4.92	5.25~5.35		
	4.83	5.47~5.725		
	5.38	5.725~5.85		
Chain 1	3.18	2.4~2.4835	Monopole	NA
	4.13	5.15~5.25		
	4.23	5.25~5.35		
	3.14	5.47~5.725		
	2.82	5.725~5.85		

3.5.2 Antenna Pattern

Please refer to the attached file (Antenna pattern).

4 Test Results

4.1 Frequency Tolerance Measurement

4.1.1 Limits of Frequency Tolerance Measurement

Tolerance of frequency shall be +/- 50ppm

4.1.2 Test Setup



4.1.3 Test Results

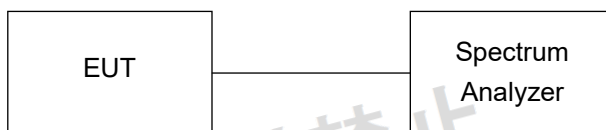
Environmental Conditions		23 deg.C, 66% RH					
Channel	Frequency (MHz)	Voltage _{normal}		Voltage _{+10%}		Voltage _{-10%}	
		Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)	Carrier frequency (MHz)	Frequency tolerance (ppm)
0	2402	2401.999640	-0.149	2401.999440	-0.233	2401.999280	-0.299
19	2440	2440.000160	0.065	2440.000040	0.016	2440.000040	0.016
39	2480	2479.999840	-0.064	2479.999640	-0.145	2479.999440	-0.225

4.2 Occupied Bandwidth Measurement (99% power bandwidth)

4.2.1 Limits of Occupied Bandwidth Measurement

Item	Limit
Occupied bandwidth	<26MHz

4.2.2 Test Setup

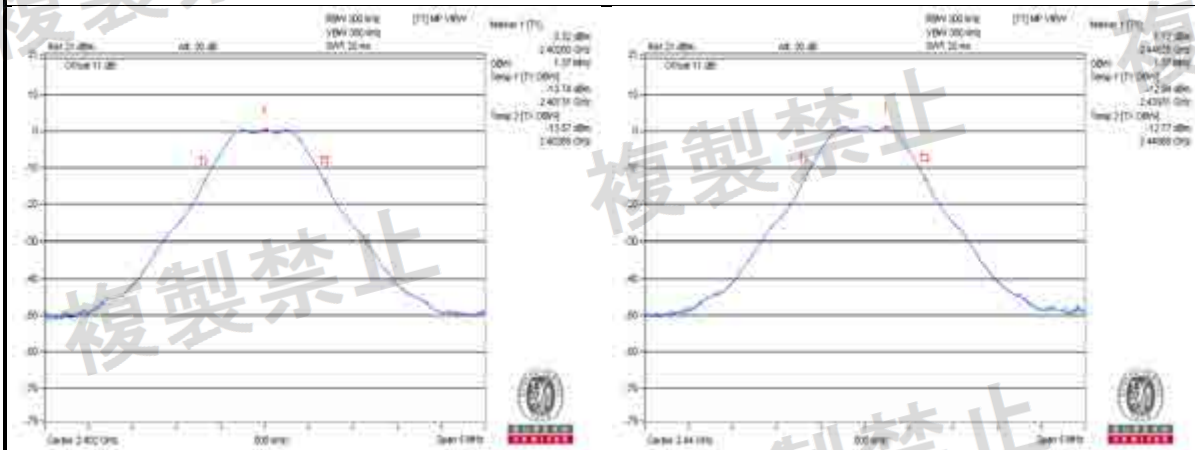


4.2.3 Test Results

Environmental Conditions		25 deg.C, 60% RH		
Channel	Frequency (MHz)	V _{normal}	V _{+10%}	V _{-10%}
		Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)	Occupied Bandwidth (MHz)
0	2402	1.37	1.37	1.37
19	2440	1.37	1.37	1.37
39	2480	1.37	1.37	1.37

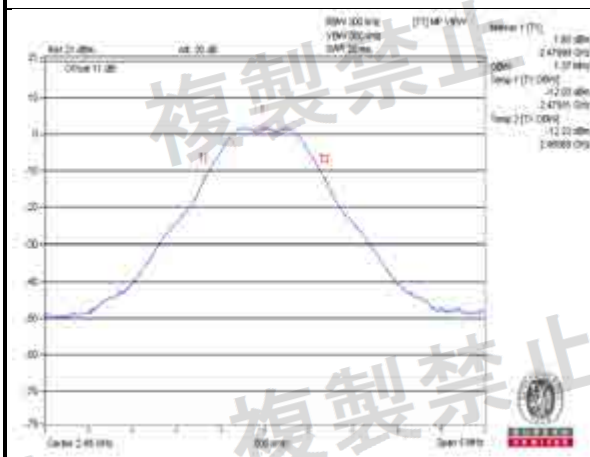
Note: 1. For the test plots please refer to the below pages.

Vnormal



Channel 0

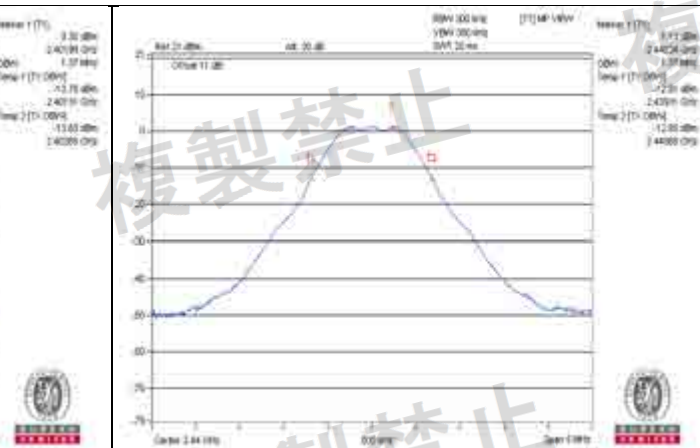
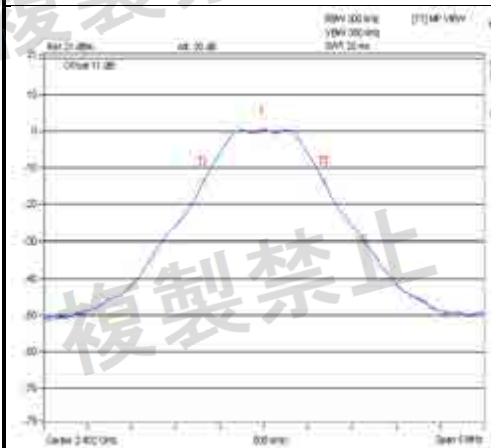
Channel 19



Channel 39

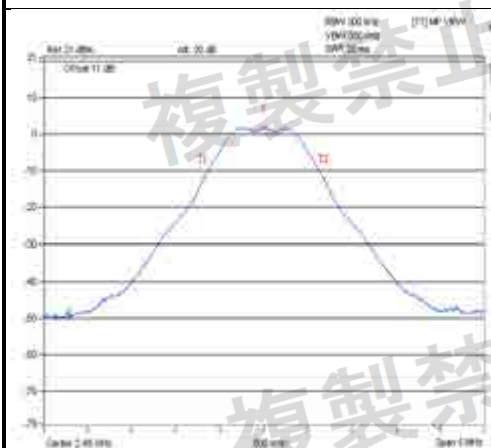


V+10%



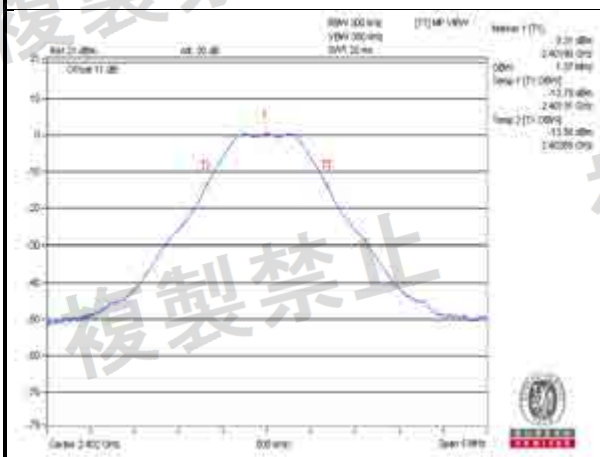
Channel 0

Channel 19

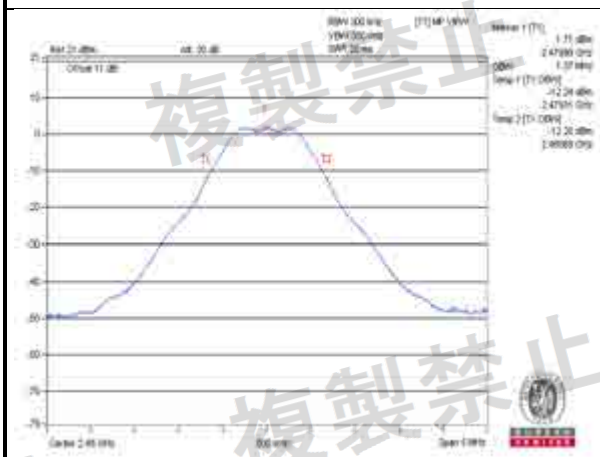


Channel 39

V-10%



Channel 0



Channel 19

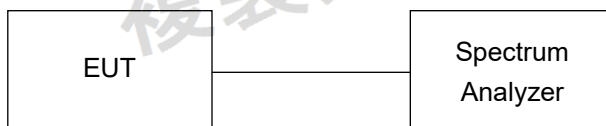
Channel 39

4.3 Spurious Emissions for Transmitter Measurement

4.3.1 Limits of Spurious Emissions

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

4.3.2 Test Setup



4.3.3 Test Results

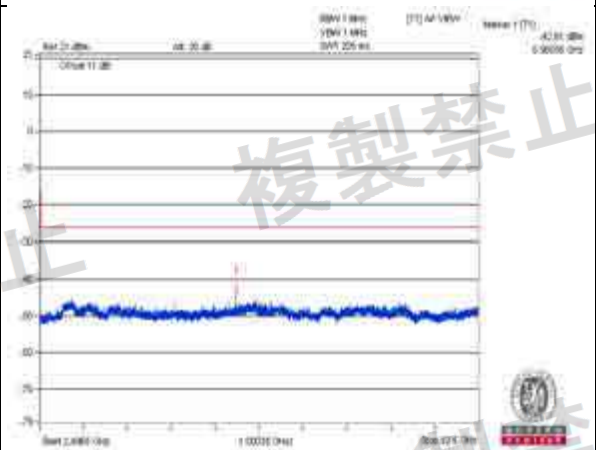
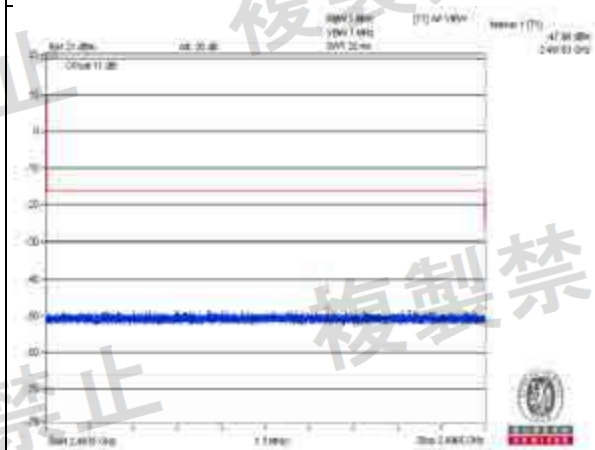
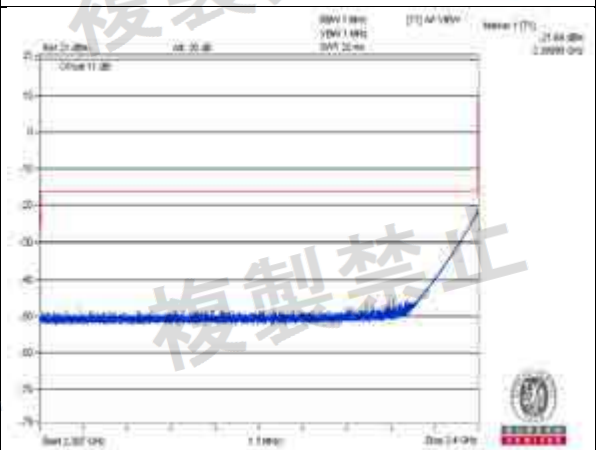
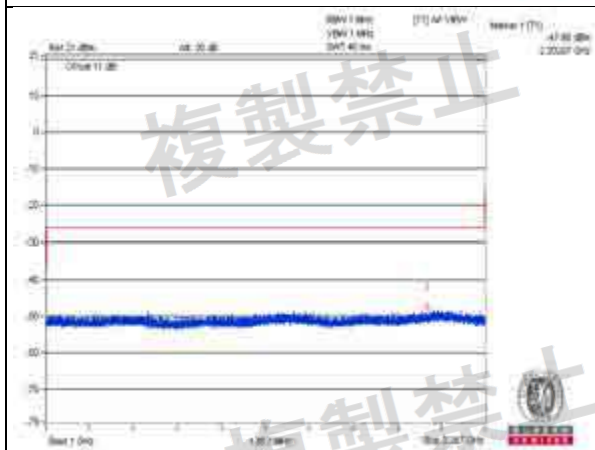
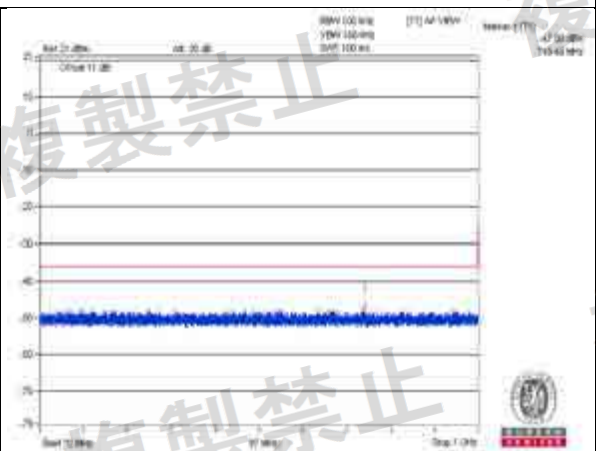
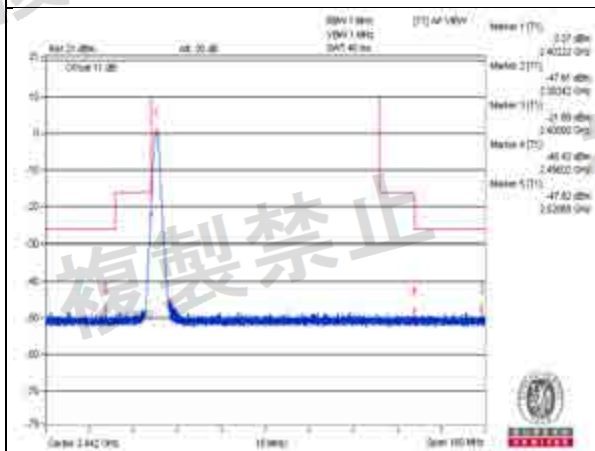
Environmental Conditions		23 deg.C, 66% RH					
Test Channel		CH 0 (2402MHz)		CH 19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value	Frequency (MHz)	Measured Value		
V _{normal}	30.0MHz to 1000.0MHz	749.49	0.019679uW	303.05	0.020893uW	0.25 uW/100kHz	PASS
	1000.0MHz to 2387MHz	2202.87	0.017114uW	2259.74	0.017701uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2399.99	6.854882uW	2395.55	0.017742uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2491.83	0.015922uW	2496.19	0.016943uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6960.56	0.054828uW	6960.56	0.053211uW	2.5uW/MHz	PASS
V _{+10%}	30.0MHz to 1000.0MHz	820.18	0.021577uW	522.63	0.019999uW	0.25 uW/100kHz	PASS
	1000.0MHz to 2387MHz	2162.65	0.014028uW	2289.38	0.016943uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2400	6.854882uW	2394.81	0.015849uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2488.24	0.016444uW	2484.87	0.01762uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6960.56	0.049091uW	6960.56	0.05105uW	2.5uW/MHz	PASS
V _{-10%}	30.0MHz to 1000.0MHz	551.49	0.021135uW	248.37	0.018621uW	0.25 uW/100kHz	PASS
	1000.0MHz to 2387MHz	2298.92	0.018535uW	2199.58	0.017701uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2399.99	6.854882uW	2394.36	0.015885uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2495.76	0.01556uW	2488.63	0.014997uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6960.56	0.05559uW	6960.56	0.049774uW	2.5uW/MHz	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following pages.

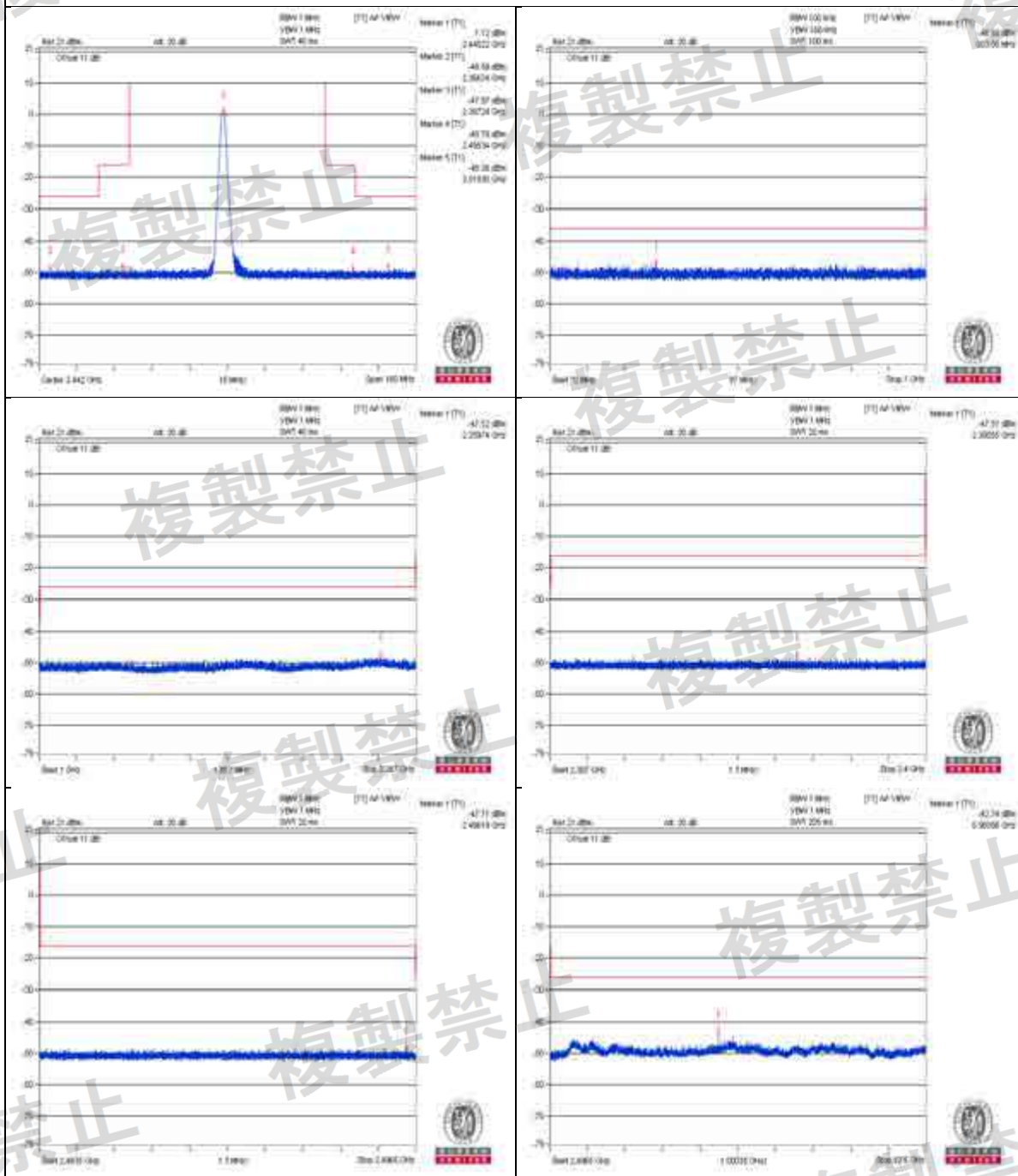
Test Channel		CH 39 (2480MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value		
V _{normal}	30.0MHz to 1000.0MHz	977.56	0.021135uW	0.25 uW/100kHz	PASS
	1000.0MHz to 2387MHz	2228.88	0.016181uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2393.94	0.016749uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.5	0.2208uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6960.56	0.05224uW	2.5uW/MHz	PASS
V _{+10%}	30.0MHz to 1000.0MHz	945.43	0.019861uW	0.25 uW/100kHz	PASS
	1000.0MHz to 2387MHz	2239.11	0.020797uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2395.15	0.015704uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.5	0.231206uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6960.56	0.053703uW	2.5uW/MHz	PASS
V _{-10%}	30.0MHz to 1000.0MHz	815.09	0.020184uW	0.25 uW/100kHz	PASS
	1000.0MHz to 2387MHz	2226.28	0.015922uW	2.5uW/MHz	PASS
	2387.0MHz to 2400.0MHz	2388.04	0.016444uW	25uW/MHz	PASS
	2483.5MHz to 2496.5MHz	2483.5	0.228034uW	25uW/MHz	PASS
	2496.5MHz to 12500.0MHz	6960.56	0.052119uW	2.5uW/MHz	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following pages.

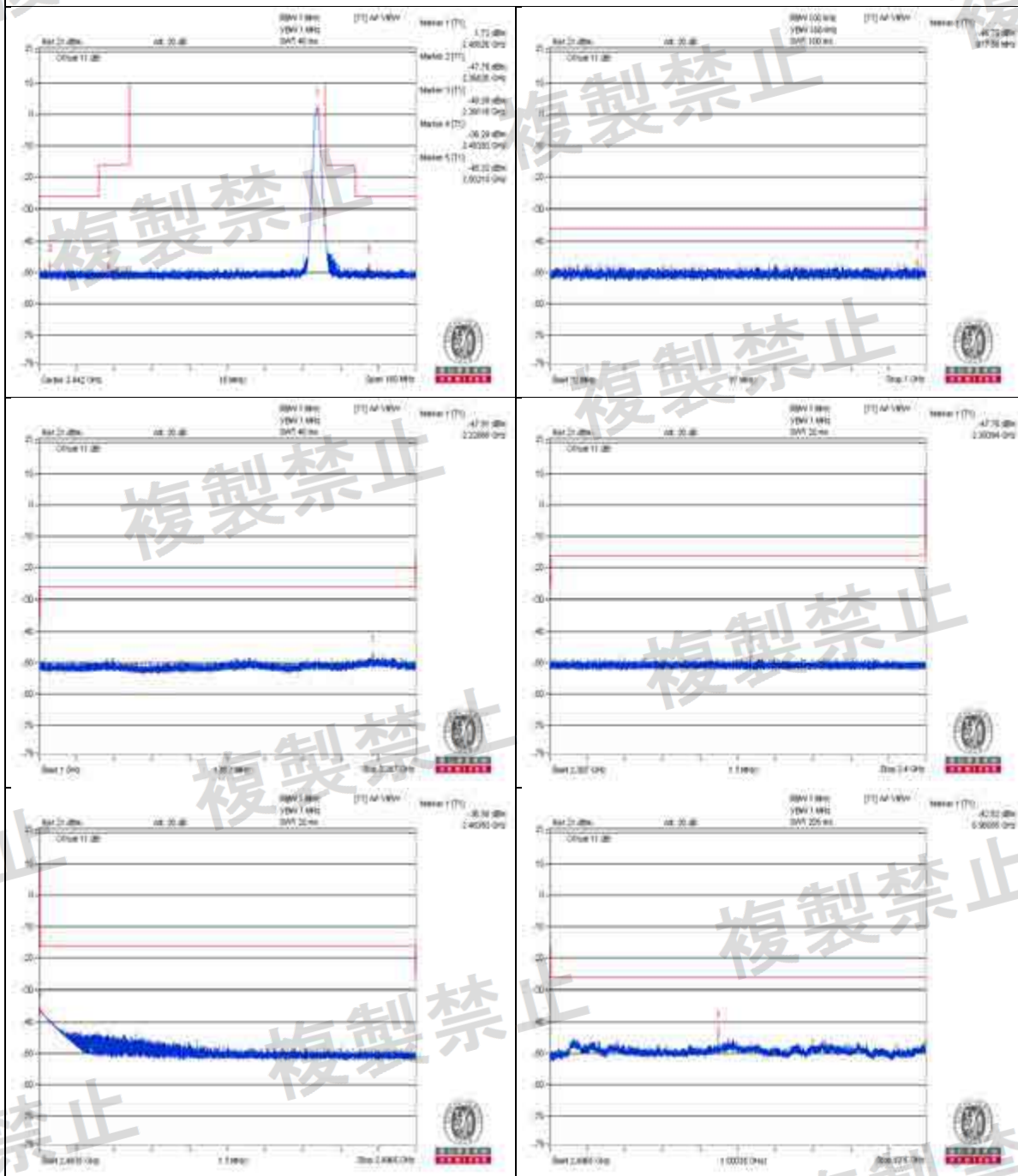
Vnormal Channel 0



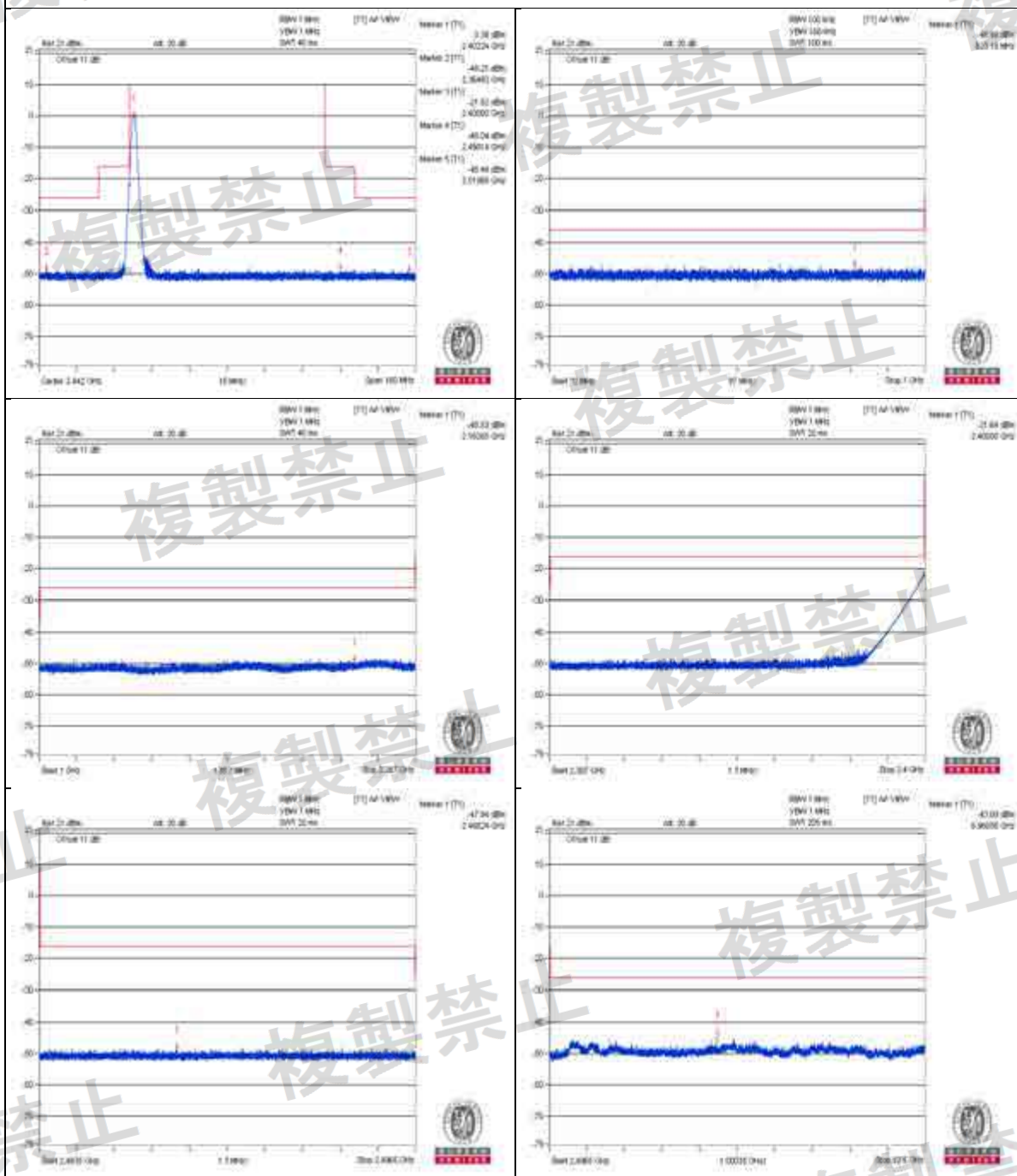
Vnormal
Channel 19



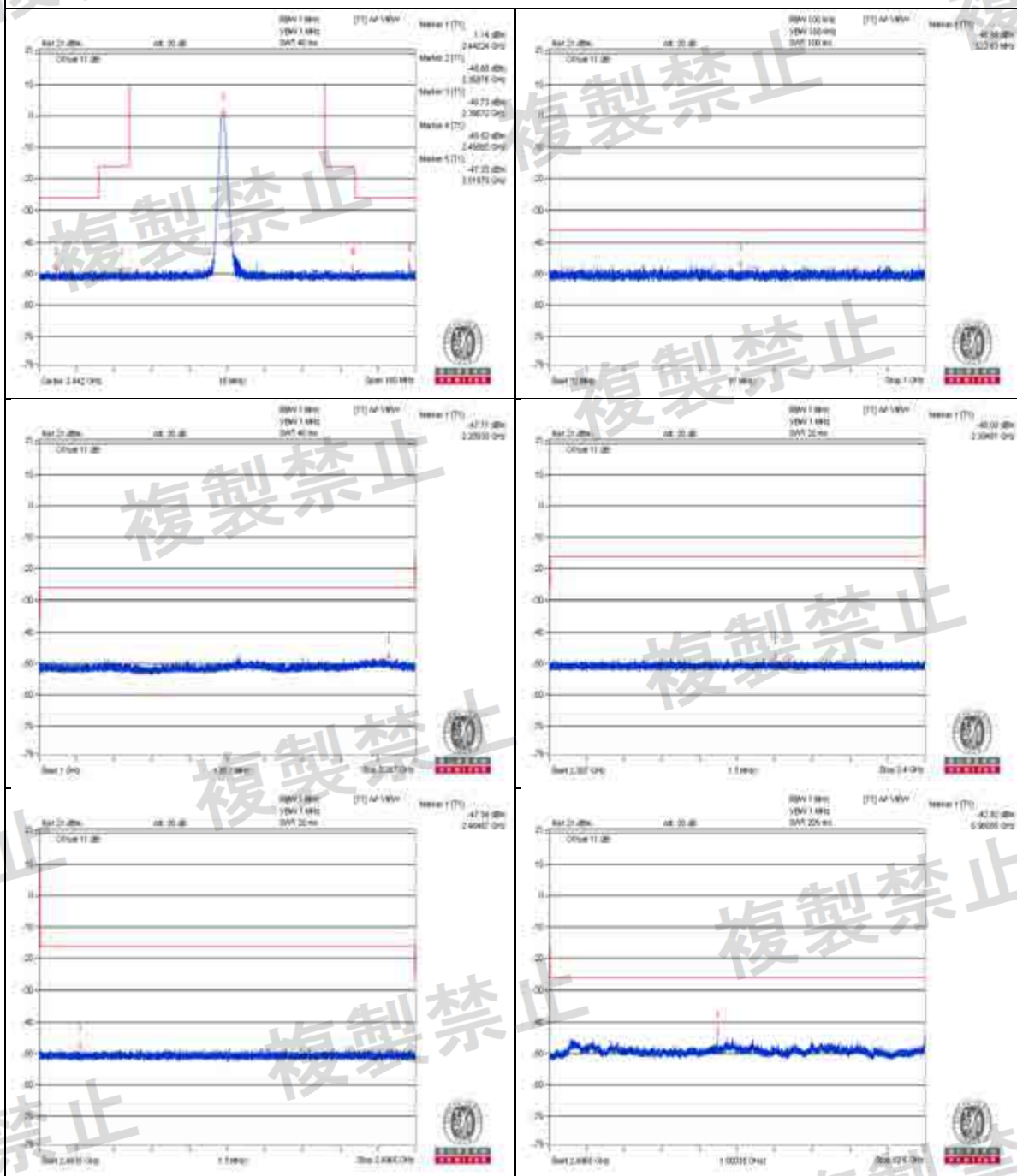
Vnormal
Channel 39



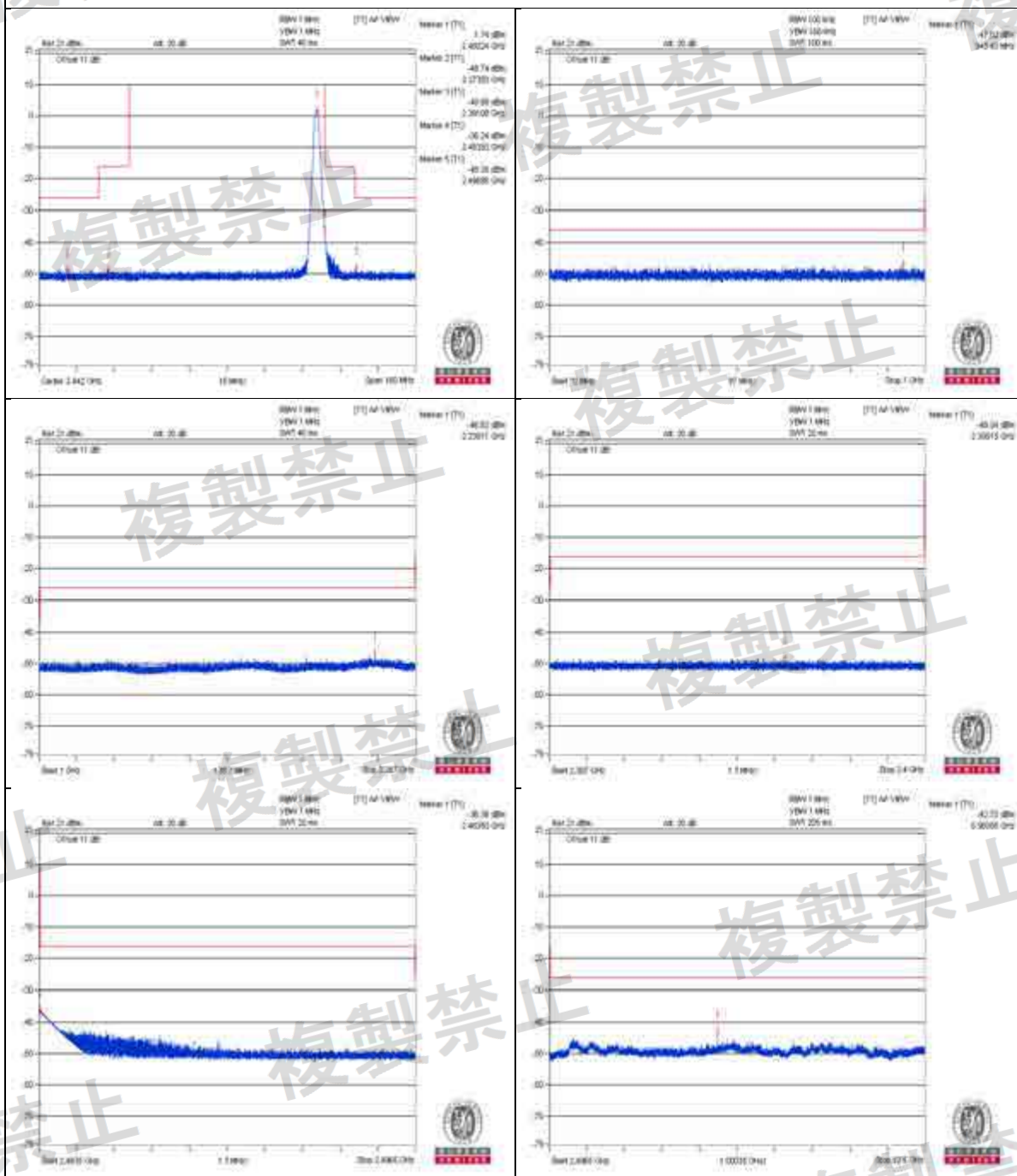
V+10%
Channel 0



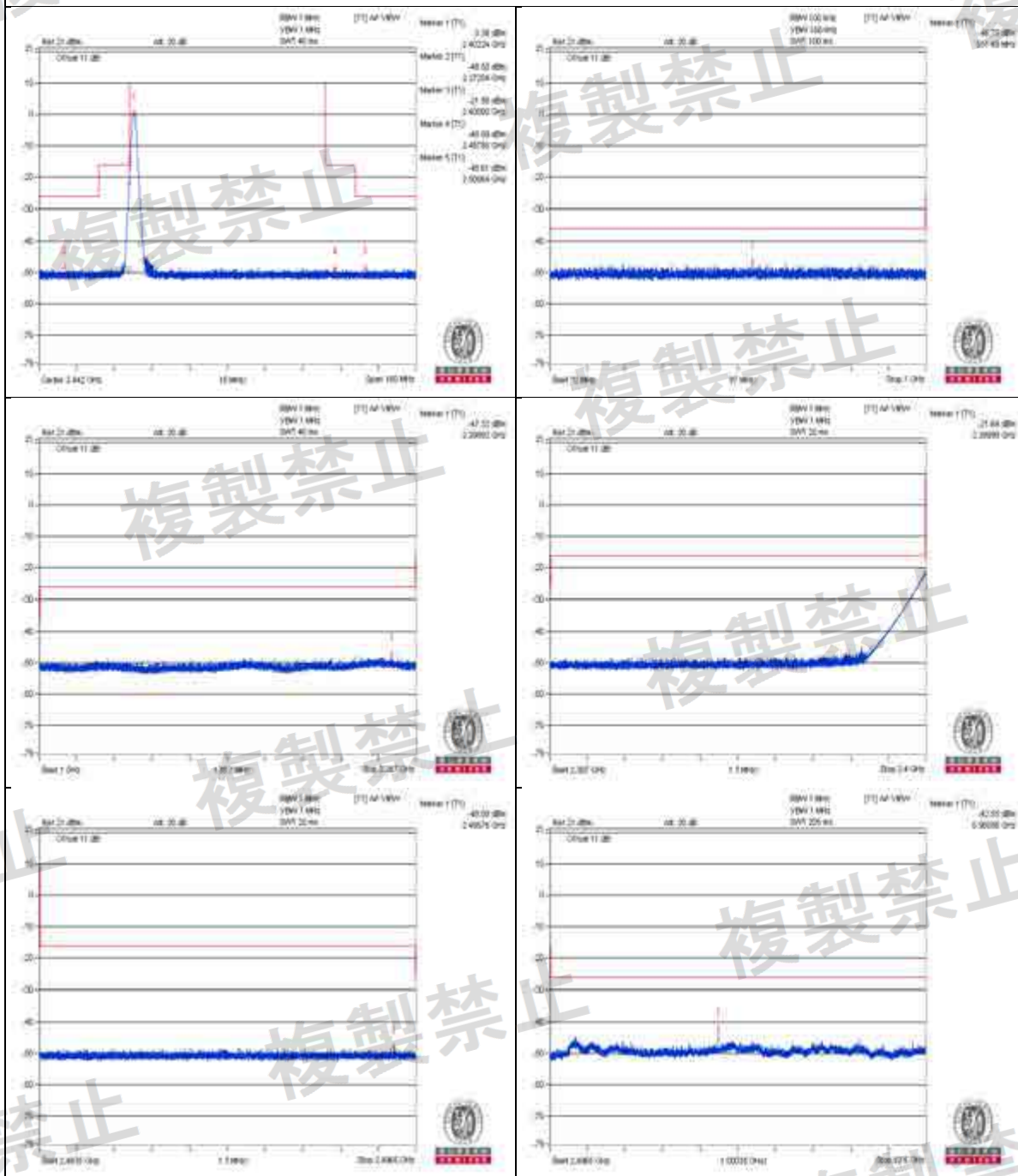
V+10%
Channel 19



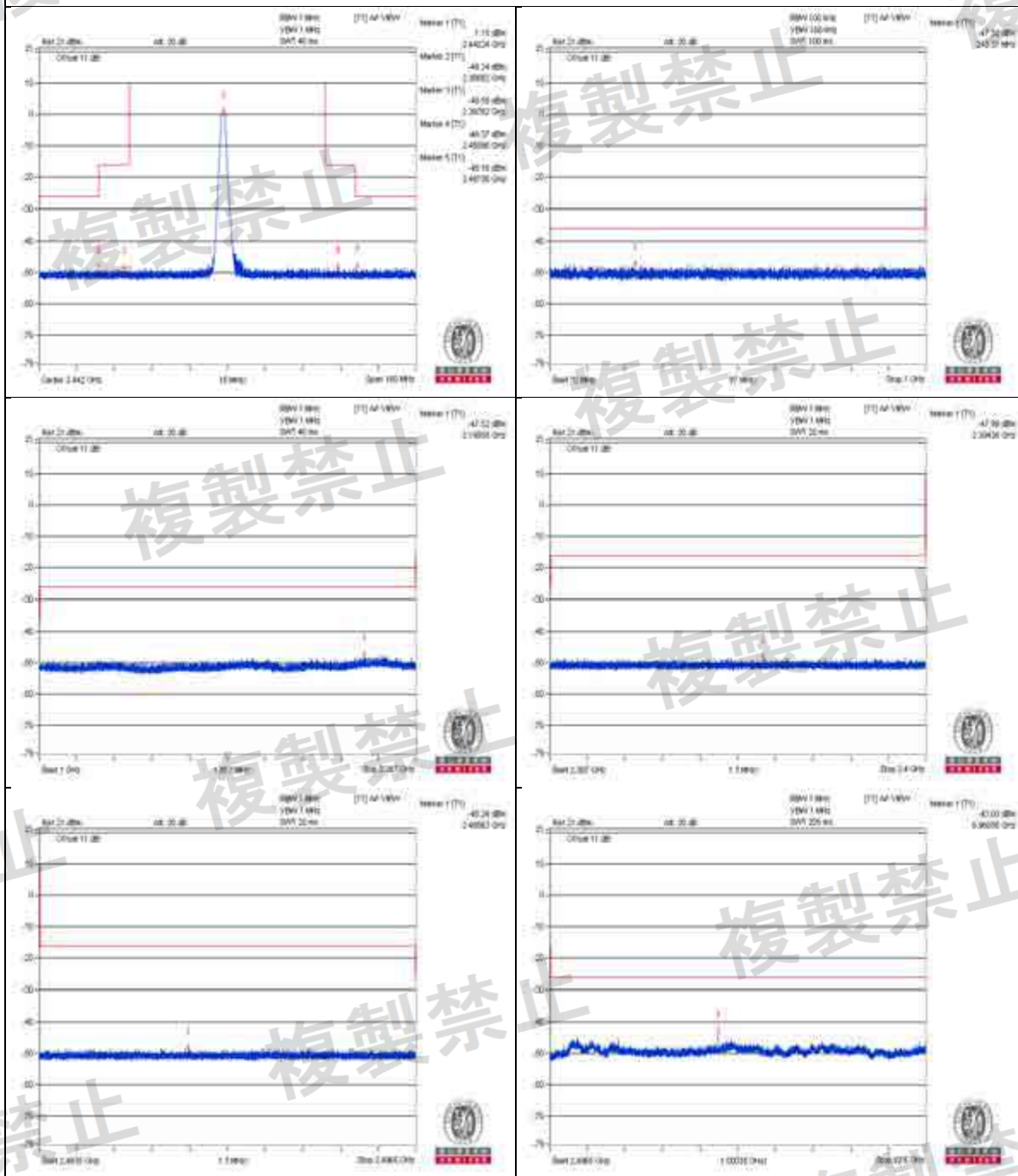
V+10%
Channel 39



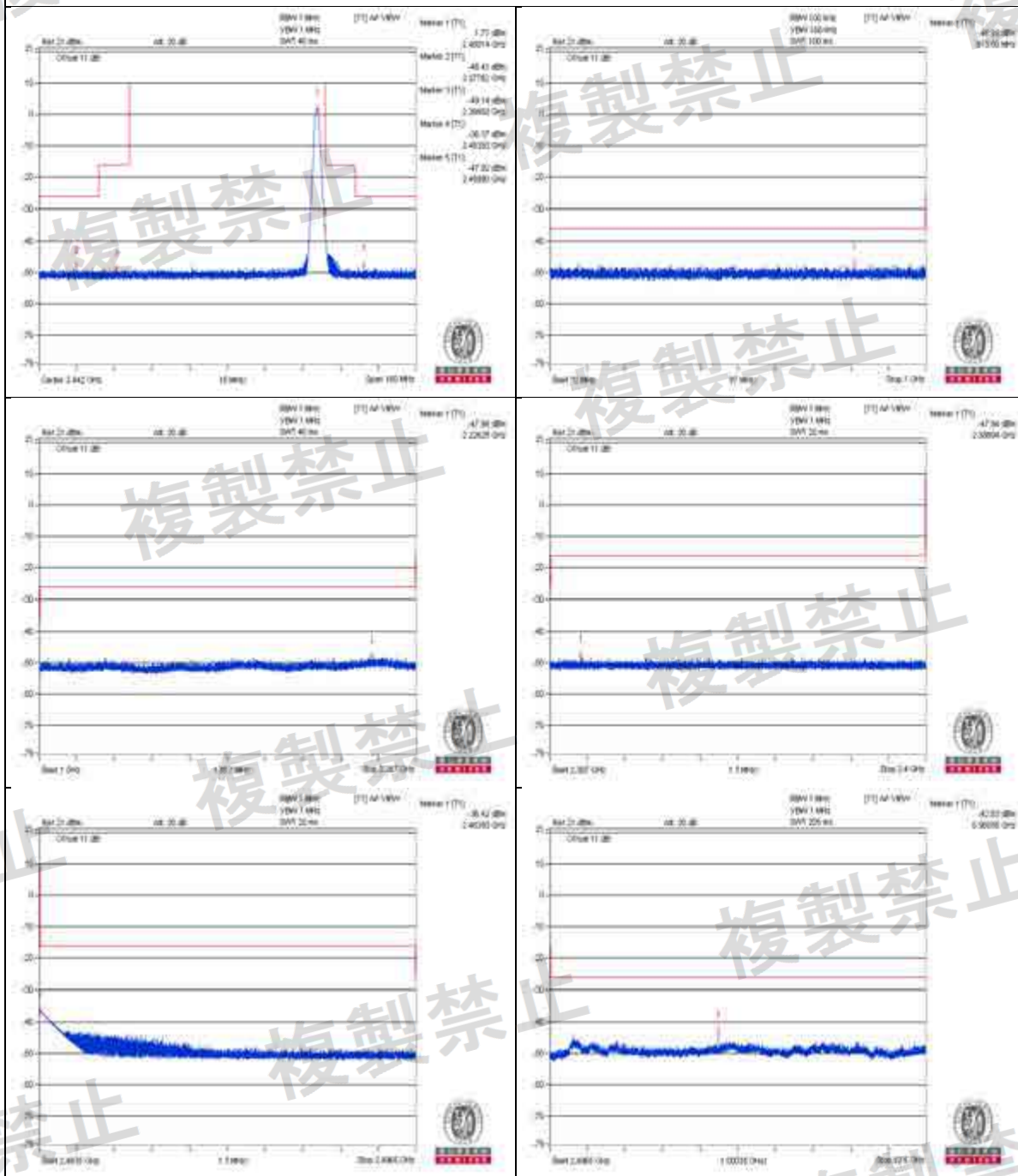
V-10%
Channel 0



V-10%
Channel 19



V-10%
Channel 39



4.4 Antenna Power Measurement

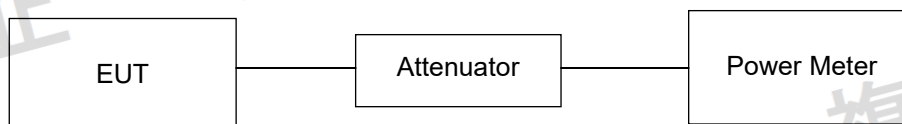
4.4.1 Limits of Antenna Power

Modulation System	Frequency Band Used	Antenna Power (Max.)	EIRP (Max.)	
			Omni-Directional Case	Directional Case
DS	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz (16.368 mW/MHz)	22.14 dBm/MHz (163.68 mW/MHz)
OFDM (Note 1)	2400 – 2483.5 MHz	10 mW/MHz	12.14 dBm/MHz (16.368 mW/MHz)	22.14 dBm/MHz (163.68 mW/MHz)
OFDM (Note 2)	2400 – 2483.5 MHz	5 mW/MHz	9.14 dBm/MHz (8.20 mW/MHz)	19.14 dBm/MHz (82.03 mW/MHz)
Other than the above	2400 – 2483.5 MHz	10 mW	12.14 dBm (16.368 mW)	22.14 dBm (163.68 mW)

Note:

1. Occupied bandwidth is less than 26MHz
2. Occupied bandwidth is more than 26MHz and less than 38MHz
3. The half-power beam width for directional antenna shall be 360/A degrees or less, where A is a ratio which causes the EIRP concerned to exceed the omnidirectional EIRP upper limit.
4. Tolerance of antenna power shall be +20% (upper value) and -80% (lower value).

4.4.2 Test Setup



4.4.3 Test Results

Environmental Conditions	23 deg.C, 66% RH			
Test Condition	Conducted RF Output Power (mW)			
	Channel 0 2402MHz	Channel 19 2440MHz	Channel 39 2480MHz	Max. Limit (mW)
V _{normal}	1.294	1.472	1.637	10
V _{normal}	1.288	1.442	1.694	10
V _{normal}	1.265	1.419	1.567	10
Rated Power	2			
Tolerance of Antenna Power	0.4 ~ 2.4			

Monopole antenna with antenna gain: 3.18dBi

Environmental Conditions	23 deg.C, 66% RH			
Test Condition	Radiated RF Output Power (mW)			
	Channel 0 2402MHz	Channel 19 2440MHz	Channel 39 2480MHz	Max. Limit (mW)
V _{normal}	2.691	3.061	3.404	16.368
V _{normal}	2.679	2.999	3.523	16.368
V _{normal}	2.631	2.951	3.259	16.368

Note: 1. The radiated RF output power is a “calculated” value derived from the conducted value.

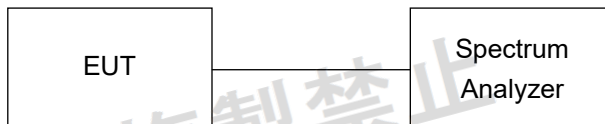
2. Formula: Radiated RF output power = Conducted RF output power + Maximum Antenna Gain

4.5 Spurious Emissions for Receiver

4.5.1 Limits of Spurious Emissions for Receiver

Frequencies (MHz)	Limit
Below 1GHz	$\leq 4\text{nW}$ (-54dBm)
Above 1GHz	$\leq 20\text{nW}$ (-47dBm)

4.5.2 Test Setup

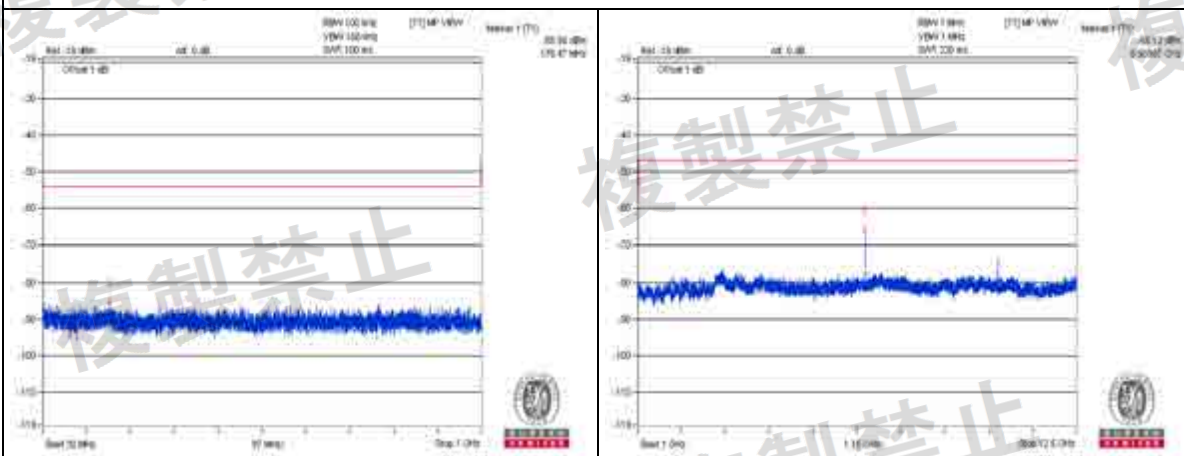


4.5.3 Test Result

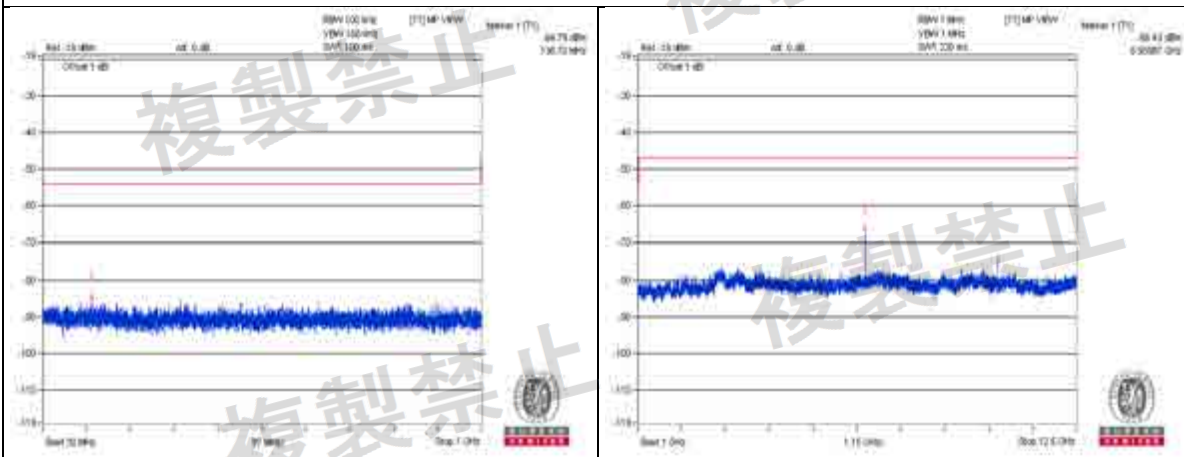
Environmental Conditions		23 deg.C, 66% RH					
Test Channel		CH 0 (2402MHz)		CH 19 (2440MHz)		Limit	Result
Test Condition	Frequency Range	Frequency (MHz)	Measured Value	Frequency (MHz)	Measured Value		
V _{normal}	Below 1GHz	176.47	0.00278nW	136.7	0.003319nW	4nW/100kHz	PASS
	Above 1GHz	6959.87	0.244343nW	6959.87	0.22751nW	20nW/MHz	PASS
V _{+10%}	Below 1GHz	167.49	0.002812nW	39.45	0.003396nW	4nW/100kHz	PASS
	Above 1GHz	6959.87	0.256448nW	6959.87	0.262422nW	20nW/MHz	PASS
V _{-10%}	Below 1GHz	833.52	0.002858nW	58.73	0.002649nW	4nW/100kHz	PASS
	Above 1GHz	6959.87	0.25293nW	6959.87	0.234963nW	20nW/MHz	PASS
Test Channel		CH 39 (2480MHz)				Limit	Result
Test Condition	Frequency Range	Frequency (MHz) Measured Value		Measured Value			
V _{normal}	Below 1GHz	163.37		0.003243nW		4nW/100kHz	PASS
	Above 1GHz	6959.87		0.25527nW		20nW/MHz	PASS
V _{+10%}	Below 1GHz	76.31		0.002518nW		4nW/100kHz	PASS
	Above 1GHz	6959.87		0.253513nW		20nW/MHz	PASS
V _{-10%}	Below 1GHz	824.3		0.002624nW		4nW/100kHz	PASS
	Above 1GHz	6959.87		0.251189nW		20nW/MHz	PASS

NOTE: 1. The worst value in each frequency range v.s. each channel has been marked by boldface.
2. The spectrum plots are attached on the following pages.

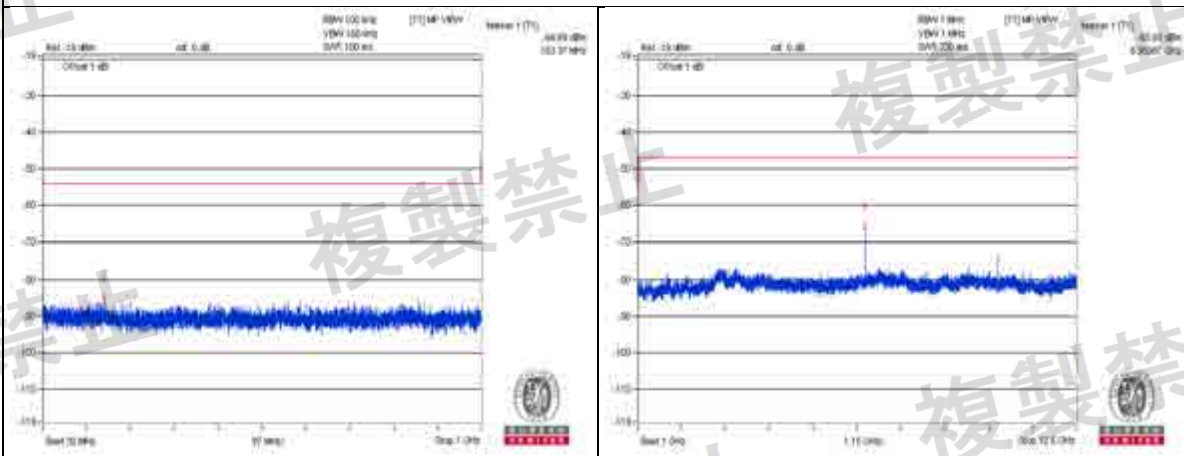
Vnormal



Channel 0

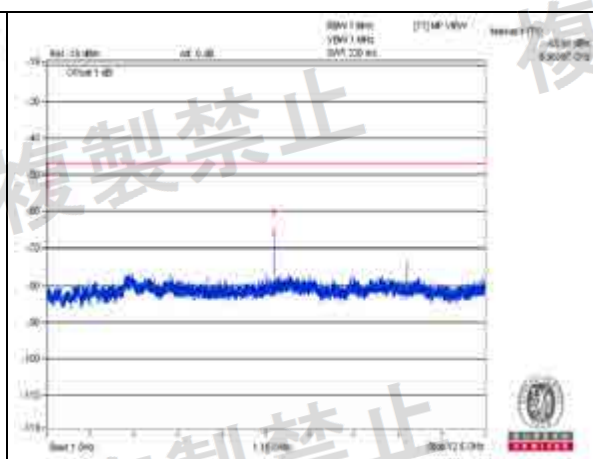
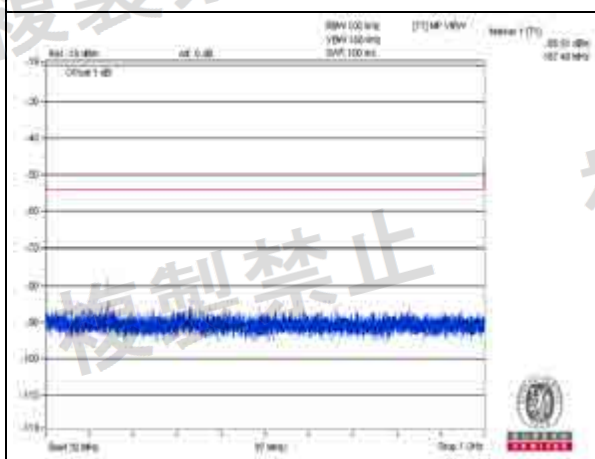


Channel 19

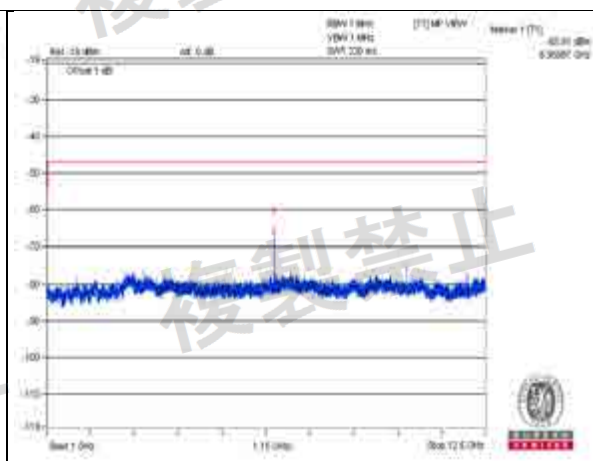
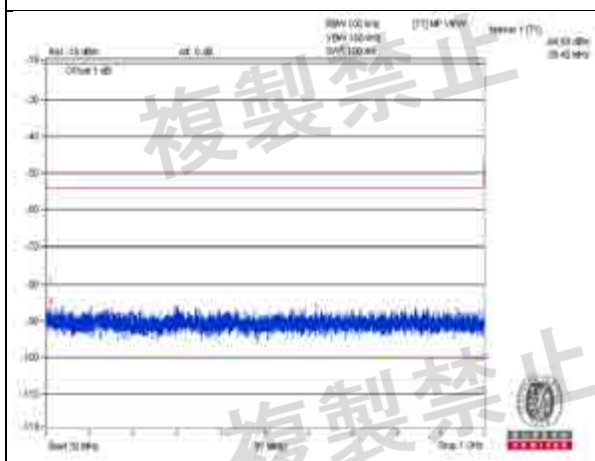


Channel 39

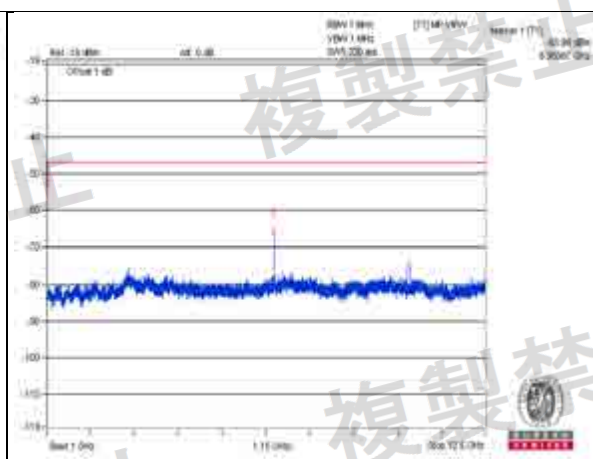
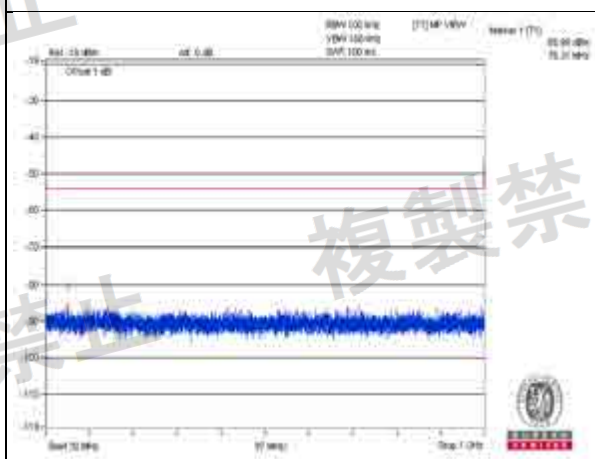
V+10%



Channel 0

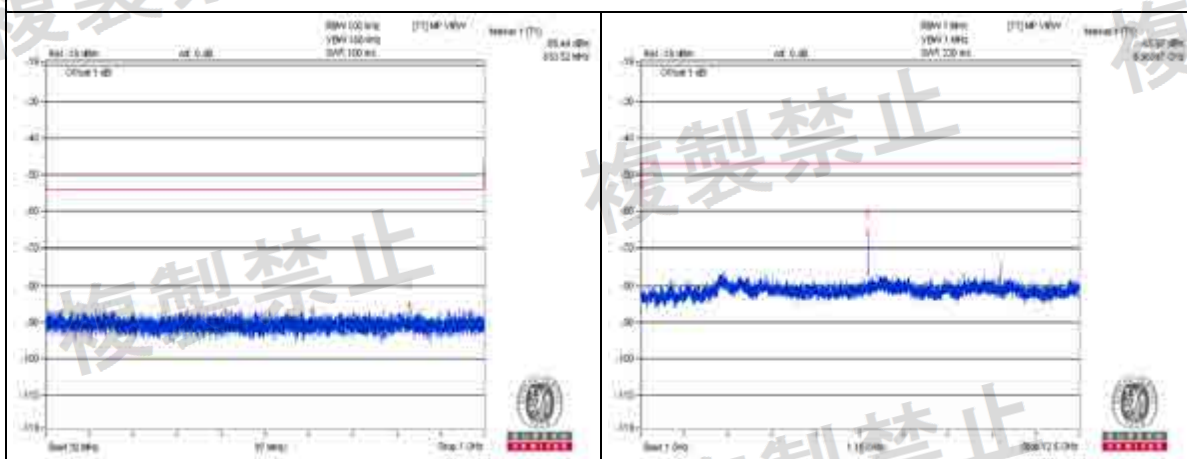


Channel 19

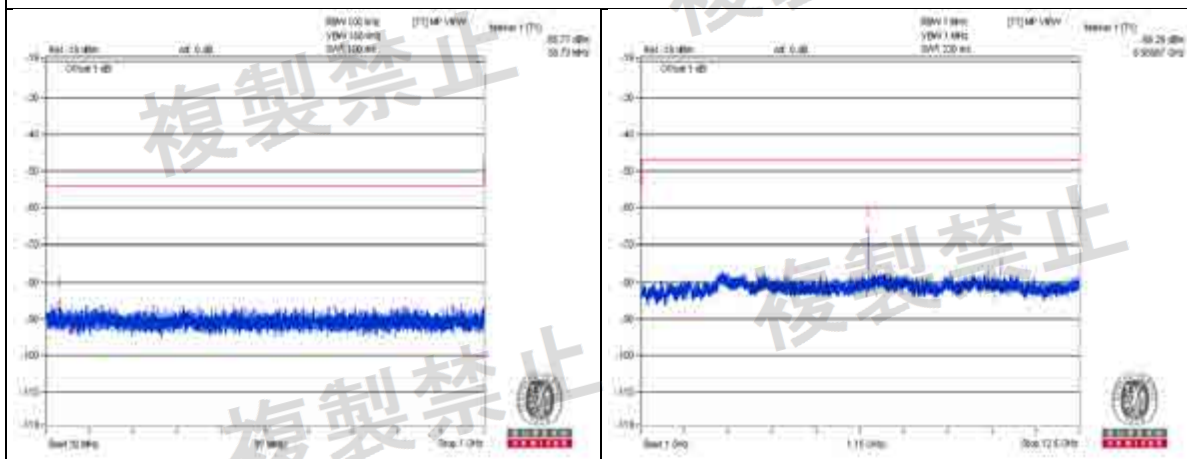


Channel 39

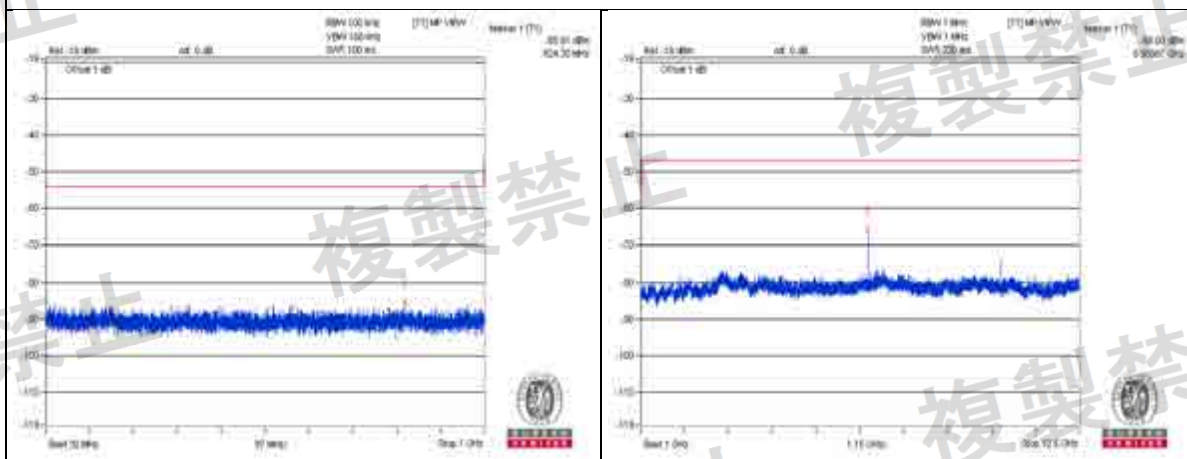
V-10%



Channel 0



Channel 19



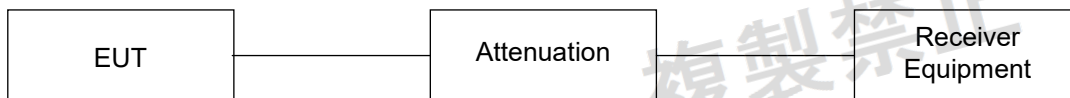
Channel 39

4.6 Interference Prevention Function

4.6.1 Limits of Interference Prevention Function

Radio equipment used mainly on the same premises and automatically transmits or receives identification code.

4.6.2 Test Setup



4.6.3 Test Results

Environmental Conditions	23 deg.C, 66% RH
Link Mode	Test Result
BT-LE	PASS

5 Photographs of the Test Configuration





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 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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Fax: 886-2-26051924

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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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