

FCC C2PC Test Report

FCC ID : PY313200235

Equipment : LTE Gateway

Model No. : LG6100D

Brand Name : NETGEAR

Applicant : NETGEAR, Inc.

Address : 350 East Plumeria Drive, San Jose, California

95134, USA

Standard : 47 CFR FCC Part 15.247

Received Date : Nov. 05, 2013

Tested Date : Nov. 28 ~ Dec. 02, 2013

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager

Iac-MRA



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Release Record

Report No.	Version	Description	Issued Date
FR3O2308AI-02	Rev. 01	Initial issue	Jan. 15, 2014

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Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 54.25 MHz	Pass
15.209	Radiated Emissions	38.88 (Margin -1.12dB) - QP	Fd55

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1 General Description

1.1 Information

This report is issued as a FCC Class II Permissive Change. No hardware and software change for this device. The modification is only adding a foundation and absorber therefore only radiated emission is performed for this C2PC.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information							
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS		
5725-5850	а	5745-5825	149-165 [5]	2	6-54 Mbps		
5725-5850	n (HT20)	5745-5825	149-165 [5]	2	MCS 0-15		
5725-5850	n (HT40)	5755-5795	151-159 [2]	2	MCS 0-15		
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	2	MCS 0-9		
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	2	MCS 0-9		
5725-5850	ac (VHT80)	5775	155 [1]	2	MCS 0-9		

Note 1: RF output power specifies that Maximum Conducted Average Power

Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Details

Model	Туре	Gain (dBi)	Connector
401-10007-01	PCB Dipole Antenna	3.0	U.FL

1.1.3 EUT Operational Condition

Power Supply Type	12Vdc from AC adapter
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1.1.4 Accessories

	Accessories						
No.	Equipment	Description					
1	AC adapter 1	Brand Name: NETGEAR Model Name: P030WF120B Power Rating: I/P: 100-240Vac, 50-60Hz, 1.0A O/P: 12Vdc, 2.5A Power Line: DC 1.8m non-shielded cable w/o core					
2	AC adapter 2	Brand Name: NETGEAR Model Name: MU30-5120250-A1 Power Rating: I/P: 100-240Vac, 50-60Hz, 0.8A O/P: 12Vdc, 2.5A Power Line: DC 1.8m non-shielded cable w/o core					
3	AC adapter 3	Brand Name: NETGEAR Model Name: SAS030F1 Power Rating: I/P: 100-120Vac, 47-63Hz, 0.9A O/P: 12Vdc, 2.5A Power Line: DC 1.8m non-shielded cable w/o core					

1.1.5 Channel List

Frequency	band (MHz)	5725~5850			
802.11 a / HT	802.11 a / HT20 / ac VHT20		802.11n HT40 / ac VHT40		ac VHT80
Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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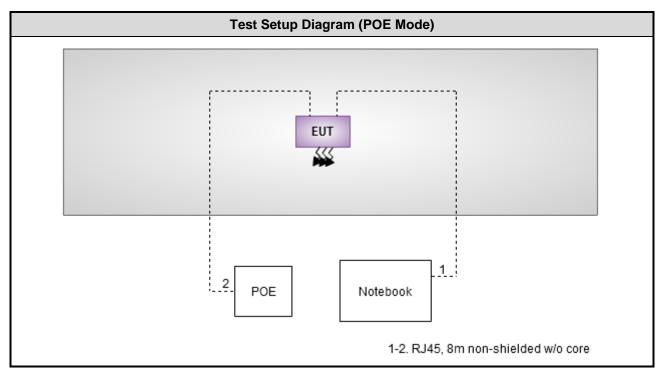
1.2 **Local Support Equipment List**

	Support Equipment List									
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)				
1	Notebook	DELL	E6430		DoC	RJ45, 8m non-shielded w/o core.				
2	POE	PowerDsine	PD-3001G C/AC		DoC	RJ45, 8m non-shielded w/o core.				

Note:

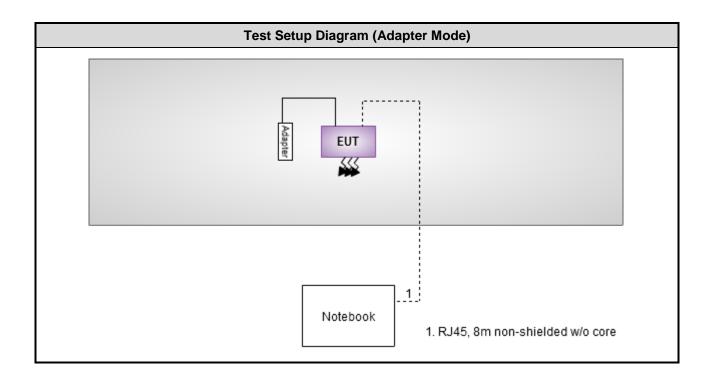
- No. 2 was supplied by applicant.
 POE is for POE mode only.

Test Setup Chart 1.3



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1.4 The Equipment List

Test Item	Radiated Emission						
Test Site	966 chamber 2 / (03C	966 chamber 2 / (03CH02-WS)					
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until		
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH02-WS	Jan. 02, 2013	Jan. 01, 2014		
Spectrum Analyzer	R&S	FSV40	101499	Jan. 28, 2013	Jan. 27, 2014		
Receiver	R&S	ESR3	101657	Jan. 30,2013	Jan. 29, 2014		
Bilog Antenna	ScHwarzbeck	VULB9168	VULB9168-524	Jan. 11, 2013	Jan. 10, 2014		
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 29, 2013	Jan. 28,2014		
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014		
Amplifier	Burgeon	BPA-530	100218	Dec. 14, 2012	Dec. 13, 2013		
Amplifier	Agilent	83017A	MY39501309	Dec. 18, 2012	Dec. 17, 2013		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 25, 2012	Dec. 24, 2013		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 25, 2012	Dec. 24, 2013		
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 25, 2012	Dec. 24, 2013		
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 25, 2012	Dec. 24, 2013		
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 25, 2012	Dec. 24, 2013		
control	EM Electronics	EM1000	060608	N/A	N/A		

Test Item	Radiated Emission	Radiated Emission						
Test Site	966 chamber 2 / (03C	966 chamber 2 / (03CH02-WS)						
Instrument	Manufacturer Model No. Serial No. Calibration Date Calibration Until							
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014			
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015			
Note: Calibration Interval of instruments listed above is two year.								

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1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty			
Parameters	Uncertainty		
Radiated emission	±2.49 dB		

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2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH02-WS	18-20°C / 62-68%	Anderson Hong Aska Huang

FCC site registration No.: 657002IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Radiated Emissions ≤1GHz	VHT20	5825	MCS 0	1, 2
	11a	5745 / 5785 / 5825	6 Mbps	
Radiated Emissions >1GHz	VHT20	5745 / 5785 / 5825	MCS 0	4
Nadiated Emissions >10112	VHT40	5755 / 5795	MCS 0	1
	VHT80	5775	MCS 0	

NOTE:

- 1. The tests reported herein were performed according to the original worst adapter 2 for final testing.
- 2. EUT has 2 types of power supply; each type is selected to perform radiated emission test as below test configuration.
 - 1) Configuration 1: POE Mode.
 - 2) Configuration 2: Adapter Mode.

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3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

	Restricted Band	Emissions Limit	
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:

Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit **Note 2:**

Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- 2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- 3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

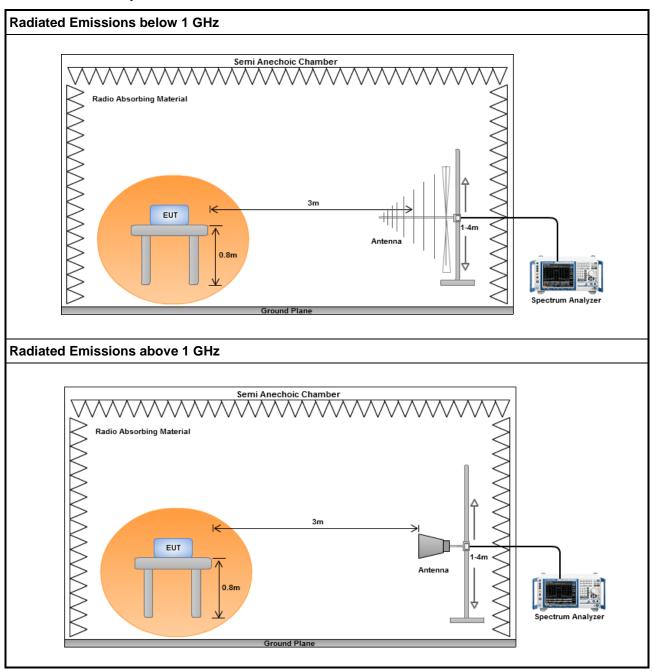
Note:

- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

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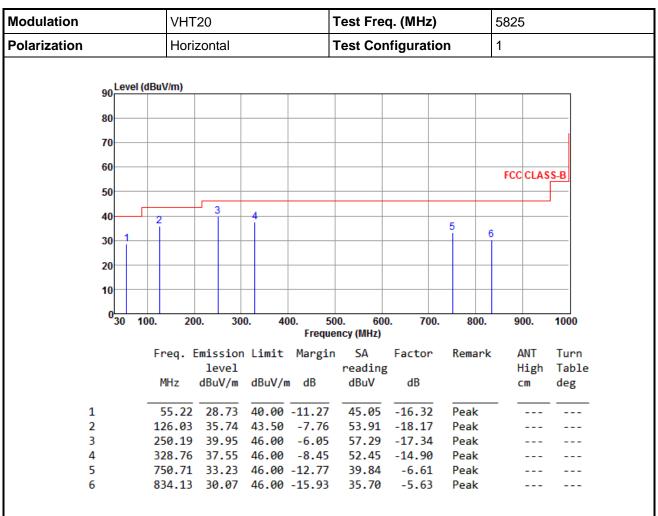
3.1.3 Test Setup



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3.1.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

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^{*}Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



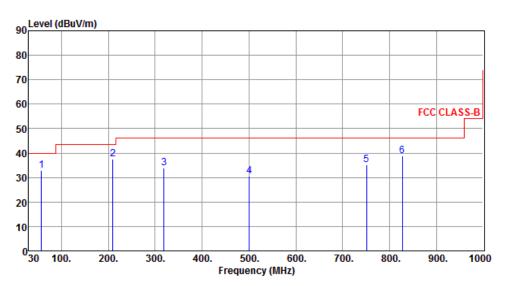
Modulation	VHT20 Test Freq. (MHz)						582	25						
Polarization		Vertical		Test Configuration					1	1				
1	evel (dBı	ıV/m)												
90	UTCI (UDC													
80														
70														
70														
60									FC	C CLAS	SS-B			
50														
40	1		3					5			-			
40		2				ı			6					
30									ì					
20														
10														
0 3	0 100.	200.	300	D. 40	00. 50	0. 60 ncy (MHz)	0. 700). 8	00.	900.	1000			
	_	req. Emi:	ccion	limi+	-		Factor	Rem	ank	ANT	Turn			
			evel	LIMIL	nai gili	reading		Kelli		High	Table			
				dBuV/n	n dB	dBuV	dB			cm	deg			
1		54.25 3	8.88	40.00	-1.12	55.13	-16.25	OP		103	23			
2	1		3.99	43.50		52.44	-18.45		k					
3			9.02	46.00		56.43								
4					-14.16		-10.94							
5 6		49.74 4: 27.34 3			-4.13	48.49 35.96								

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	2



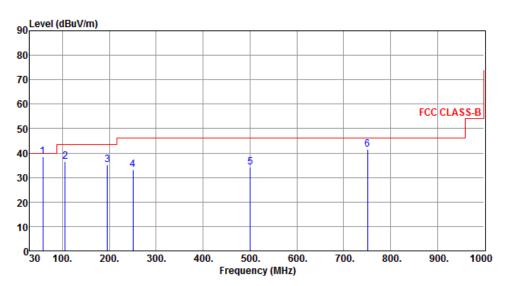
	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	57.16	32.75	40.00	-7.25	49.22	-16.47	Peak		
2	209.45	37.40	43.50	-6.10	56.26	-18.86	Peak		
3	319.06	33.77	46.00	-12.23	48.90	-15.13	Peak		
4	500.45	30.65	46.00	-15.35	41.59	-10.94	Peak		
5	750.71	35.04	46.00	-10.96	41.65	-6.61	Peak		
6	827.34	38.83	46.00	-7.17	44.55	-5.72	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical	Test Configuration	2



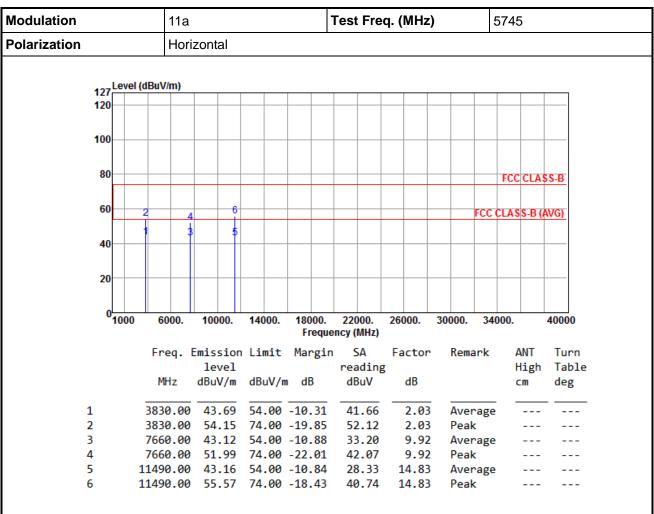
	Freq.	Emission level	Limit	Margin	SA reading		Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg
1	58.13	38.45	40.00	-1.55	55.00	-16.55	QP	103	56
2	105.66	36.48	43.50	-7.02	56.81	-20.33	Peak		
3	195.87	35.15	43.50	-8.35	54.24	-19.09	Peak		
4	250.19	33.10	46.00	-12.90	50.44	-17.34	Peak		
5	500.45	34.18	46.00	-11.82	45.12	-10.94	Peak		
6	750.71	41.38	46.00	-4.62	47.99	-6.61	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a



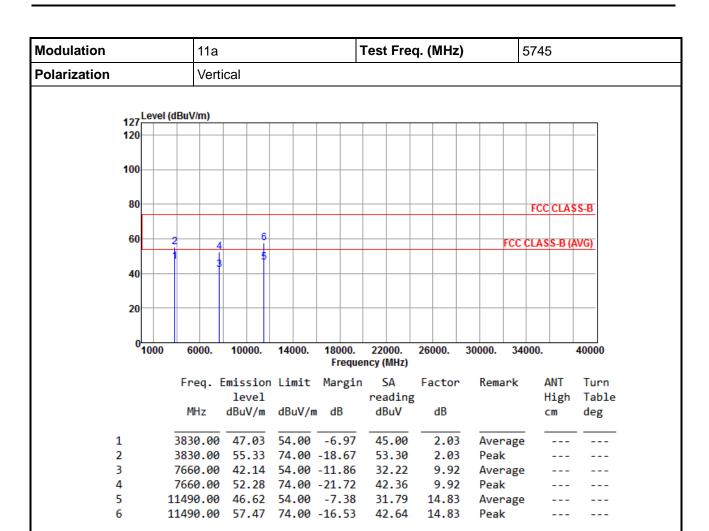
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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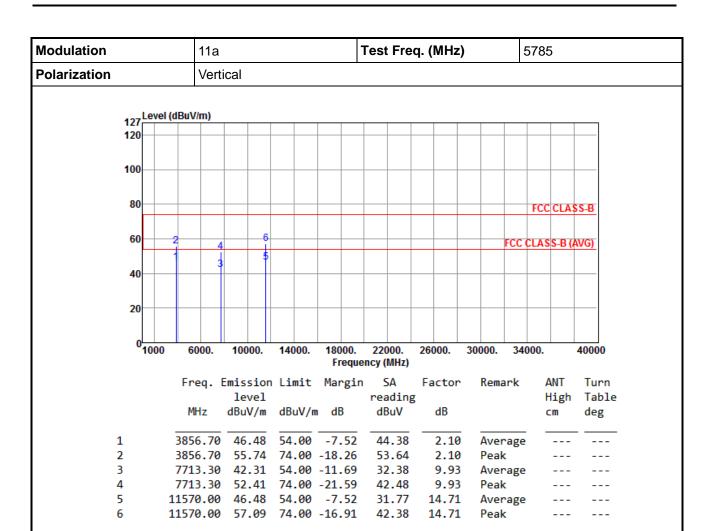
Modulation		11a			-	Test Fre	eq. (MH	z)	57	85	
Polarization		Horizo	ntal						•		
121	evel (dBu)	v/m)									
120											
100											
80-									F	CC CLA	SS-B
										JU UZIN	
60	2	4	- 6						FCC CL	ASS-B (AVG)
		3	5								
40											
20											
0											
~1 0	000 6	6000. 1	10000.	14000.	18000. Freque	22000. ency (MHz)	26000.	30000.	34000).	40000

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3856.70	43.75	54.00	-10.25	41.65	2.10	Average		
2		54.45			52.35	2.10	Peak		
3	7713.30	43.43	54.00	-10.57	33.50	9.93	Average		
4	7713.30	52.28	74.00	-21.72	42.35	9.93	Peak		
5	11570.00	43.32	54.00	-10.68	28.61	14.71	Average		
6	11570.00	56.07	74.00	-17.93	41.36	14.71	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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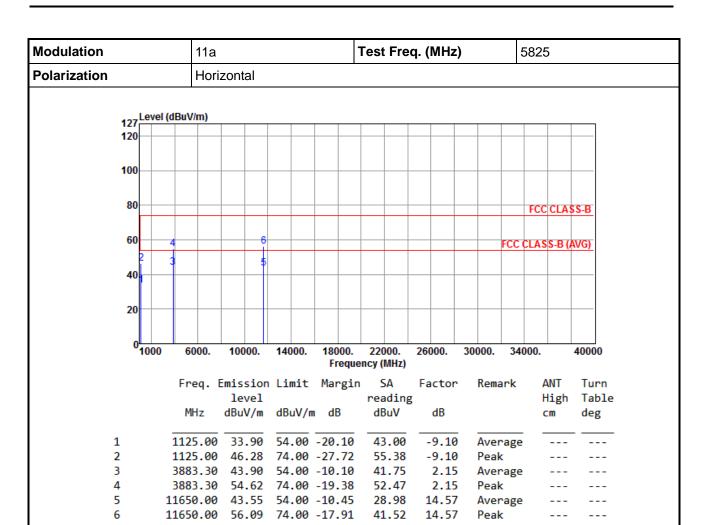


Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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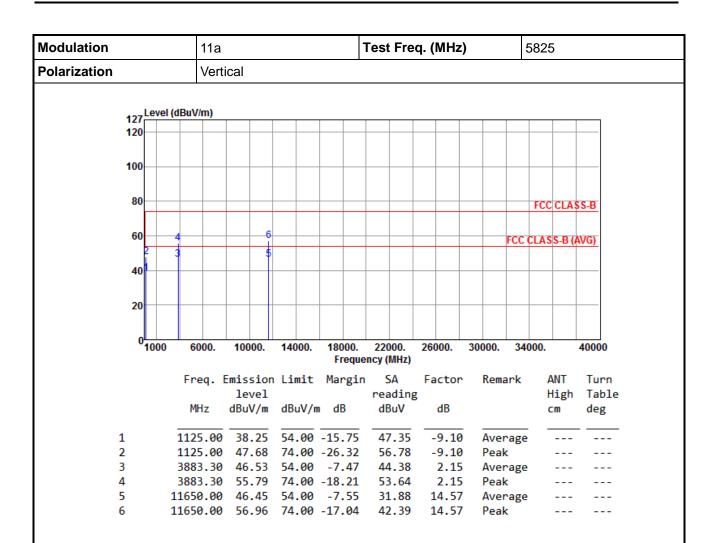


*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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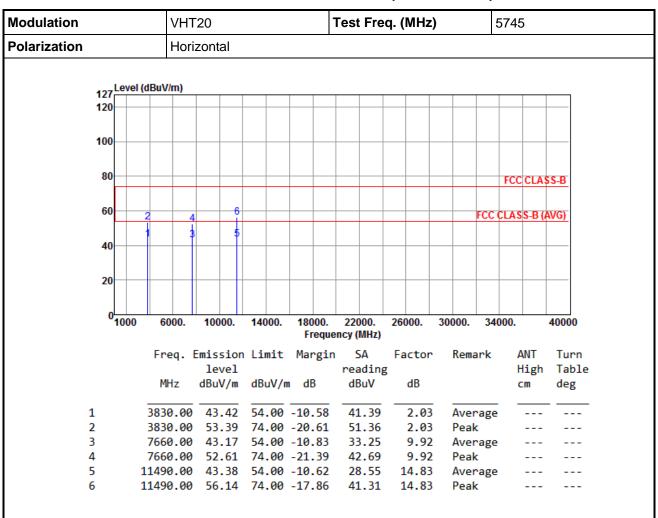
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.1.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation				VHT	20					-	Test	Fre	q. (MHz	2)			5745	5		
Polarization				Verti	cal																
	127	Level	(dBuV/	m)																	
	120																				
	100																				
	80																	FCC	CLA:	SS-B	
	60		2	4		6											FCC	CLAS	S-B (AVG)	
	40		-	3		-															
	20																				
	0	1000	60	00.	100	00.	140	00.	180 Fr		220 ency (I		260	000.	300	000.	34	000.		4000	00
			Fre	eq. E		sior vel	Lim	it			S			ctor		Rema	ark		NT High	Tu Ta	rn ble
			MH	lz			dBu	V/n	n dE	3		uV		dB					:m	de	
1							54.					.86		2.03			rage	-		-	
2				0.00			74. 54.					.65 .39		9.92		Peal Avei	k rage	:		_	

41.99

31.64

9.92

14.83

14.83

Peak

Peak

Average

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain

7660.00 51.91 74.00 -22.09 11490.00 46.47 54.00 -7.53

11490.00 57.26 74.00 -16.74 42.43

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

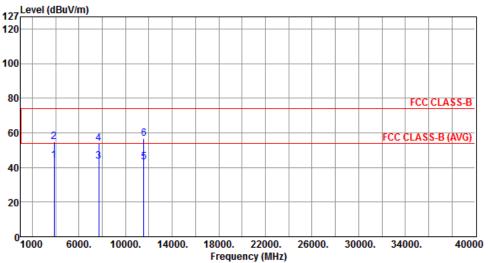
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Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		
l evel (dBu\	lim)		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3856 70	43.92	54 00	10 08	41.82	2.10	Average		
_									
2	3856.70	54.74	74.00	-19.26	52.64	2.10	Peak		
3	7713.30	43.61	54.00	-10.39	33.68	9.93	Average		
4	7713.30	53.78	74.00	-20.22	43.85	9.93	Peak		
5	11570.00	43.35	54.00	-10.65	28.64	14.71	Average		
6	11570.00	56.59	74.00	-17.41	41.88	14.71	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation			٧	ΉΤ	20				1	Test Fre	q. (MHz)		578	5	
Polarization			٧	'erti	cal				·								
	127	Level	(dBuV/m	1)											_		
	120					\dashv									+		
	100					\dashv									+		
	80														FCC	CLA	SS-B
	60		2	4		-6								FCC	CLAS	S-B (AVG)
			1	3		5											
	40			-		+									+		
	20					\dashv											
	0	1000	600	0.	1000	0.	14000.	1800	00.	22000.	260	000.	30000). 34	1000.		40000
								Fre	eque	ncy (MHz)							
			Fred	ı. E	miss	ion	Limit	Mar	gin	SA	Fa	actor	Re	mark	1	ANT	Turn
					lev					readin	_				H	High	Tab1
			MHz	2	dBuV	/m	dBuV/ı	m dB		dBuV		dB			(cm	deg
	1		3856	70	46	67	54.00	-7	33	44.57	_	2.10	<u> Αν</u>	erage			
	2						74.00			53.73		2.10		ak	-		
	3						54.00			32.64		9.93		erage	2		
	4		7747	20	F2	40	74 00	24	- A	40 50		0 02		-1-			

42.53

31.88

9.93

14.71

14.71

Peak

Peak

Average

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain

7713.30 52.46 74.00 -21.54

11570.00 57.24 74.00 -16.76 42.53

11570.00 46.59 54.00 -7.41

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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5



Modulation				VH٦	20					-	Test	Fre	q. (MHz)		ţ	5825	5	
Polarization				Hori	zont	al														
		ovo	l (dDu	\//m)																
			l (dBu	V/III)																
1	120																			
1	100																			
	80	+		_											-			FCC	CLAS	SS-B
	ı	\top																	ULJ (
	60	+	4			- 6											FCC	CLAS	S-B (AVG)
		2	1			1											100	CLAS	3-D (/	NVO)
	40		1			_														
	20	\top																		
	O,	1000) "	6000.	100	00.	1400	0.		000.	220 ncy (l		260	000.	3000	00.	340	000.		40000
			_		г	. .	1.2					-	г.		п			,	MIT	Т
			ь	req.		sion vel	ı L1m:	ıτ	mar	rgin		A ding		ctor	K	lema	ırĸ		NNT ligh	Turn Tabl
				MHz			dBu\	V/n	n di	3		uV	_	dB					m :	deg
								_												
1				25.00								.24		9.10		ver	_			
2				25.00		.57			-27			.67		9.10		eak				
3				83.30								.38		2.15		lver	_			
4				83.30								.67		2.15		eak				
5			116	50.00	43	. /0	54.0	90	-10	. 30	29	.13	1	4.57	Д	lver	age			

14.57

Peak

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

11650.00 55.95 74.00 -18.05 41.38

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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Modulation			VHT	20				Test	Fred	q. (MHz)		5825	5	
Polarization			Verti	cal			•								
127	Lev	el (dBu	V/m)												
120					_				_						
100	1											_			
80													FCC	CLAS	SS-B
60	יבוי	4			-6							FCC	CLAS	S-B (/	AVG)
	ĬΙ	3			1										
40	1														
20	"														
,	Щ														
•	100	0 (6000.	1000	0.	14000.	18000.	2200 ency (M		26000.	30000.	34	000.		40000
		г.	[1 4 4 +				Factor	Don	ıark	,	ANT	Turn
		FI	req. :	leve.		LIMIC	Margin	read			· Keii	iark		awı High	Table
		1	MHz			dBuV/r	n dB	dBı	_	dB				:m	deg
		_			_						_		_		
1			25.00				-21.37	41.		-9.10		rage	2		
2			25.00				-26.28 -7.28	56. 44.		-9.10 2.15		ik erage			
4							-17.94	53.		2.15		_			
5							-6.88			14.57		 erage	•		
6							-16.82	42.		14.57					

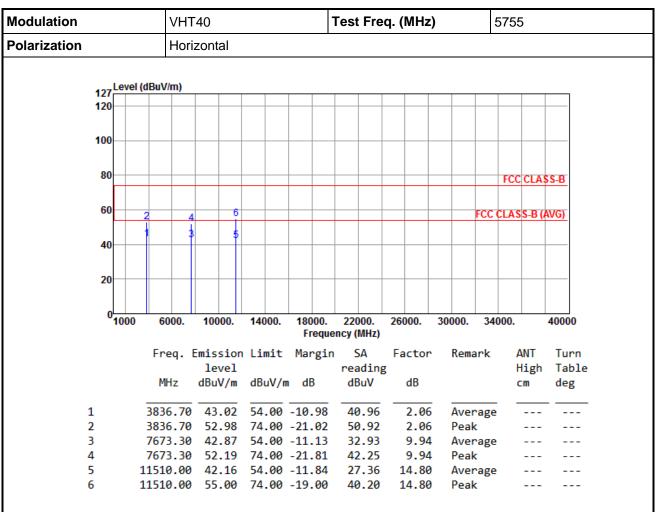
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.1.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

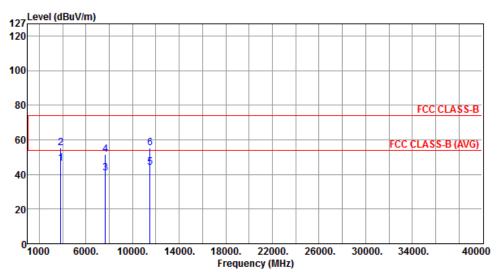
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



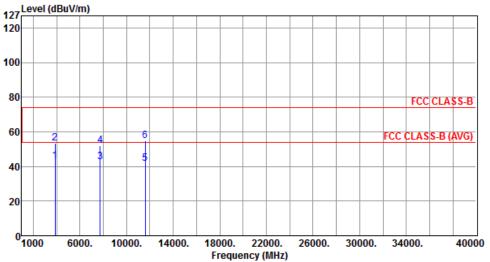
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3836.70	46.43	54.00	-7.57	44.37	2.06	Average		
2	3836.70	55.29	74.00	-18.71	53.23	2.06	Peak		
3	7673.30	40.88	54.00	-13.12	30.94	9.94	Average		
4	7673.30	51.53	74.00	-22.47	41.59	9.94	Peak		
5	11510.00	44.15	54.00	-9.85	29.35	14.80	Average		
6	11510.00	55.08	74.00	-18.92	40.28	14.80	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		
127 Level (dBu\ 120	//m)		



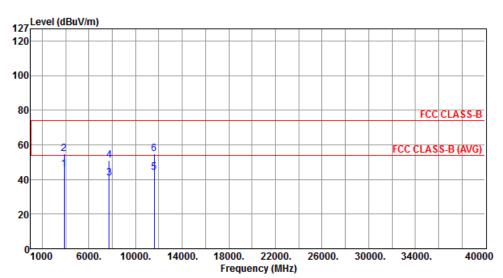
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
									0
1	3863.30	43.21	54.00	-10.79	41.10	2.11	Average		
2	3863.30	53.27	74.00	-20.73	51.16	2.11	Peak		
3	7726.70	42.48	54.00	-11.52	32.55	9.93	Average		
4	7726.70	51.94	74.00	-22.06	42.01	9.93	Peak		
5	11590.00	41.78	54.00	-12.22	27.12	14.66	Average		
6	11590.00	54.88	74.00	-19.12	40.22	14.66	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		



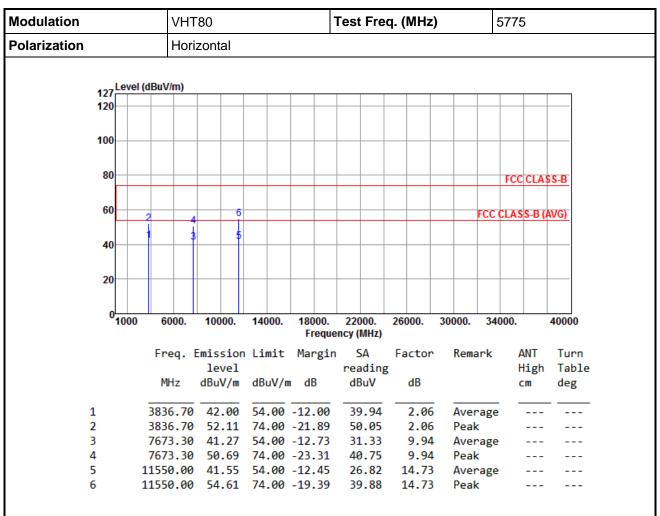
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
	PHIZ	ubuv/III	ubuv/III	ub	ubuv	ub		CIII	ueg
1	3863.30	46.11	54.00	-7.89	44.00	2.11	Average		
2	3863.30	54.83	74.00	-19.17	52.72	2.11	Peak		
3	7726.70	40.64	54.00	-13.36	30.71	9.93	Average		
4	7726.70	51.23	74.00	-22.77	41.30	9.93	Peak		
5	11590.00	44.00	54.00	-10.00	29.34	14.66	Average		
6	11590.00	54.85	74.00	-19.15	40.19	14.66	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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3.1.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80



Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

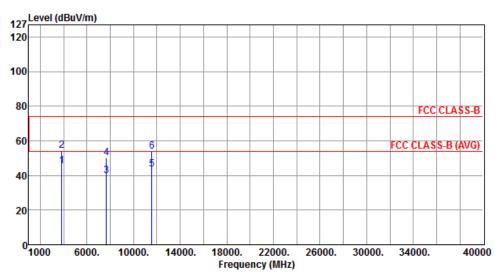
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) - Limit (dBuV/m).

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Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Ū	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3836.70	45.27	54.00	-8.73	43.21	2.06	Average		
2	3836.70	54.16	74.00	-19.84	52.10	2.06	Peak		
3	7673.30	39.88	54.00	-14.12	29.94	9.94	Average		
4	7673.30	50.20	74.00	-23.80	40.26	9.94	Peak		
5	11550.00	43.38	54.00	-10.62	28.65	14.73	Average		
6	11550.00	53.66	74.00	-20.34	38.93	14.73	Peak		

*Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website http://www.icertifi.com.tw.

Linkou Kwei Shan

Tel: 886-2-2601-1640 Tel: 886-3-271-8666

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei
City, Taiwan, R.O.C.

No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan
Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666 Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==

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