

# **FCC Test Report**

FCC ID	:	ZQ6-WMCT759B
Equipment	:	CC2640RHB BLE module
Model No.	:	WMCT-759B
Brand Name	:	АМРАК
Applicant	:	AMPAK Technology Inc.
Address	:	No.1 Jen Ai Road, Hsinchu Industrial Park,Hukou, Hsinchu, Taiwan
Standard	:	47 CFR FCC Part 15.247
<b>Received Date</b>	:	Oct. 23, 2015
Tested Date	:	Jan. 06 ~ Jan. 07, 2016

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





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# **Release Record**

Report No.	Version	Description	Issued Date
FR5O2304	Rev. 01	Initial issue	Jan. 21, 2016
FR5O2304	Rev. 02	Revised brand name (Page 1)	Jan. 25, 2016



# Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 21.830MHz 39.76 (Margin -10.24dB) - AV	Pass
15.247(d)	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz	Pass
15.209		71.97 (Margin -2.03dB) - PK	F 855
15.247(b)(3)	Maximum Output Power	Power [dBm]: 5.05	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass



# **1** General Description

# 1.1 Information

#### **1.1.1** Specification of the Equipment under Test (EUT)

RF General Information								
Frequency Range (MHz)Bluetooth ModeCh. Freq. (MHz)Channel NumberData Rate								
2400-2483.5 V4.1 LE 2402-2480 0-39 [40] 1 Mbps								
Note 1: Bluetooth LE	Note 1: Bluetooth LE (Low energy) uses GFSK modulation.							

#### 1.1.2 Antenna Details

Ant. No.	Brand	Model	Туре	Gain (dBi)	Connector
1	YAGEO	ANT8010LL04R2 400A	Chip	0.5	N/A

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
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#### 1.1.4 Accessories

N/A



### 1.1.5 Channel List

	Frequency band (MHz)				2400~2	2483.5	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

# 1.1.6 Test Tool and Duty Cycle

Test tool Btool, V1.40.12	
Duty cycle of test signal (%)	66.82%
Duty Factor (dB)	1.75

### 1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)				
	2402	2440	2480		
GFSK/1Mbps	Default	Default	Default		

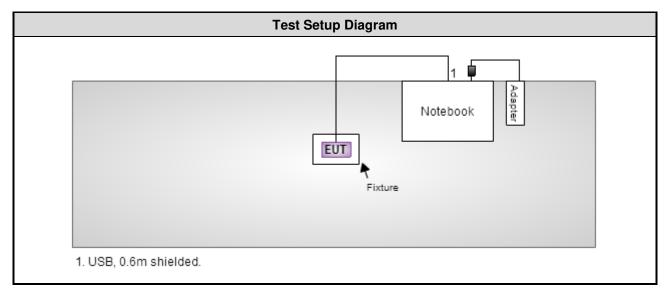


# 1.2 Local Support Equipment List

	Support Equipment List								
No.	No. Equipment Brand Model FCC ID Signal cable / Length (n								
1	Notebook	lenovo	7673	DoC	USB, 0.6m shielded.				
2	Fixture	AMPAK	WMCT-759_EVB_V00						
3	Adapter	lenovo	92P1156						

Note: No. 1, No. 2, No. 3, and USB cable are provided by applicant.

# 1.3 Test Setup Chart





#### **Test Equipment List and Calibration Data** 1.4

Test Item	Conducted Emission								
Test Site	Conduction room 1 /	Conduction room 1 / (CO01-WS)							
Instrument	Manufacturer Model No. Serial No. Calibration Date Calibration Until								
EMC Receiver	R&S	ESCS 30	100169	Oct. 21, 2015	Oct. 20, 2016				
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2015	Nov. 12, 2016				
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 21, 2015	Dec. 20, 2016				
Measurement Software AUDIX e3 6.120210k NA NA									
Note: Calibration Int	erval of instruments lis	ted above is one year.			•				

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 03, 2015	Feb. 02, 2016
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA

Test Item	Radiated Emission							
Test Site	966 chamber 2 / (03CH02-WS)							
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until			
Spectrum Analyzer	R&S	FSV40	101499	Dec. 17, 2015	Dec. 16, 2016			
Receiver	R&S	ESR3	101657	Jan. 15, 2015	Jan. 14, 2016			
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Nov. 09, 2015	Nov. 08, 2016			
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Oct. 07, 2015	Oct. 06, 2016			
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016			
Preamplifier	Burgeon	BPA-530	100218	Nov. 03, 2015	Nov. 02, 2016			
Preamplifier	Agilent	83017A	MY39501309	Sep. 22, 2015	Sep. 21, 2016			
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 10, 2015	Dec. 09, 2016			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 10, 2015	Dec. 09, 2016			
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 10, 2015	Dec. 09, 2016			
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 10, 2015	Dec. 09, 2016			
LF cable 10M	EMCC	CFD400-E	CFD400-001	Dec. 10, 2015	Dec. 09, 2016			
Measurement Software	AUDIX	e3	6.120210g	NA	NA			



# 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 C63.10-2013 FCC KDB 558074 D01 DTS Meas Guidance v03r04

# 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			
Bandwidth	±34.134 Hz			
Conducted power	±0.808 dB			
Power density	±0.463 dB			
Conducted emission	±2.670 dB			
AC conducted emission	±2.90 dB			
Radiated emission ≤ 1GHz	±3.62 dB			
Radiated emission > 1GHz	±5.60 dB			



# 2 Test Configuration

# 2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	23°C / 55%	Peter Lin
Radiated Emissions	03CH02-WS	21°C / 63%	Warren Lee
RF Conducted	TH01-WS	22°C / 63%	Alex Huang

➢ FCC site registration No.: 657002

➢ IC site registration No.: 10807A-2

# 2.2 The Worst Test Modes and Channel Details

Mode	Test Frequency (MHz)	Data Rate	Test Configuration
BT LE	2402	1Mbps	
BT LE	2402	1Mbps	
BT LE	2402, 2440, 2480	1Mbps	
BT LE	2402, 2440, 2480	1Mbps	
	BT LE BT LE BT LE	Mode  (MHz)    BT LE  2402    BT LE  2402    BT LE  2402    BT LE  2402    BT LE  2402, 2440, 2480	Mode  (MHz)  Data Hate    BT LE  2402  1Mbps    BT LE  2402  1Mbps    BT LE  2402, 2440, 2480  1Mbps

NOTE:

 The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.



# 3 Transmitter Test Results

# 3.1 Conducted Emissions

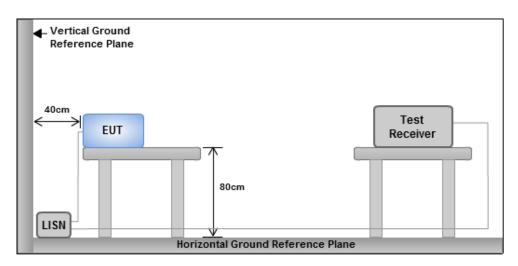
#### 3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit					
Frequency Emission (MHz)	Quasi-Peak	Average			
0.15-0.5	66 - 56 *	56 - 46 *			
0.5-5	56	46			
5-30 60 50					
Note 1: * Decreases with the logarithm of the frequency.					

#### 3.1.2 Test Procedures

- 1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
- The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
- 3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
- 4. This measurement was performed with AC 120V/60Hz

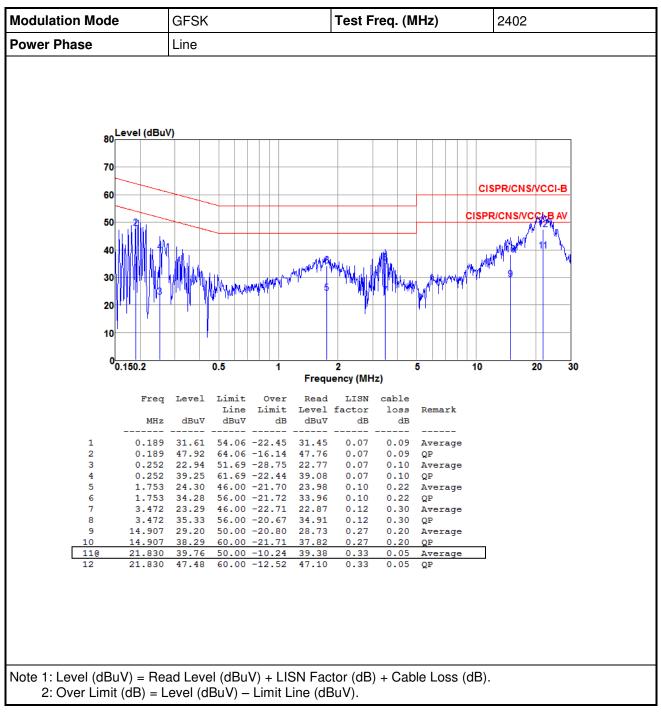
#### 3.1.3 Test Setup



Note: 1. Support units were connected to second LISN.

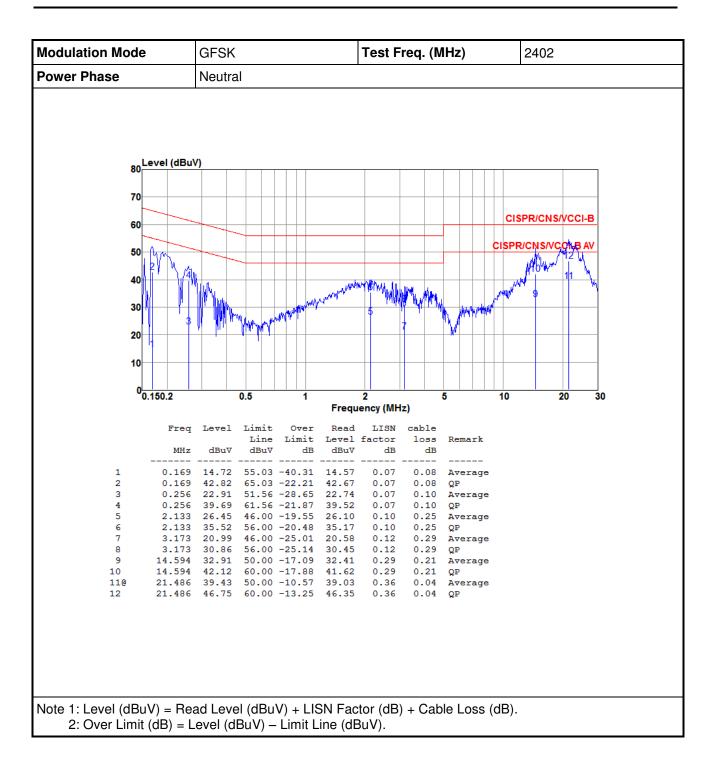
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes





### 3.1.4 Test Result of Conducted Emissions







# 3.2 6dB and Occupied Bandwidth

#### 3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

#### 3.2.2 Test Procedures

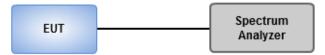
#### 6dB Bandwidth

- 1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
- 2. Detector = Peak, Trace mode = max hold.
- 3. Sweep = auto couple, Allow the trace to stabilize.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

#### Occupied Bandwidth

- 1. Set resolution bandwidth (RBW) = 30 kHz, Video bandwidth = 100 kHz.
- 2. Detector = Sample, Trace mode = max hold.
- 3 Sweep = auto couple, Allow the trace to stabilize.
- 4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

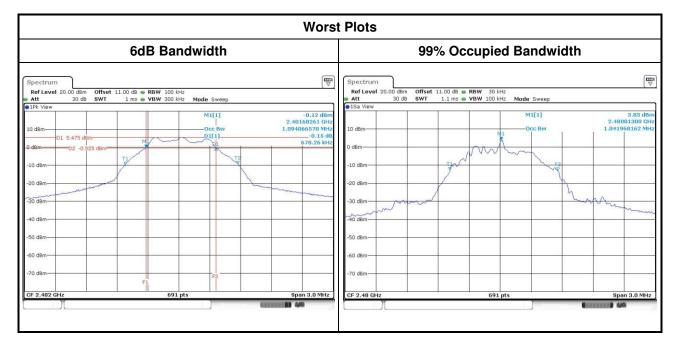
#### 3.2.3 Test Setup





3.2.4	Test Resu	It of 6dB and Oco	cupied Bandwidth	1

Mode	Freq. (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit of 6dB Bandwidth (kHz)
BT LE	2402	0.678	1.03	500
BT LE	2440	0.700	1.04	500
BT LE	2480	0.696	1.04	500





### 3.3 **RF Output Power**

#### 3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

- Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.
- Antenna gain > 6dBi
  - Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

#### 3.3.2 Test Procedures

Maximum Peak Conducted Output Power

- Spectrum analyzer
  - 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
  - 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
  - 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.

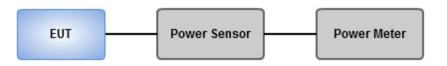
#### Power meter

- 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- Maximum Conducted Average Output Power (For reference only)

#### **Power meter**

1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

#### 3.3.3 Test Setup





3.3.4	Test Result of Maximum Output Power
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			Peak Power		Antenna	EIRP	EIRP
Mode	Freq. (MHz)	Power (mW)	Power (dBm)	Limit (dBm)	gain (dBi)	(dBm)	Limit (dBm)
BT LE	2402	3.20	5.05	30	0.5	5.55	36
BT LE	2440	3.14	4.97	30	0.5	5.47	36
BT LE	2480	3.01	4.79	30	0.5	5.29	36

Mode	Freq. (MHz)	AV Power (mW)	AV Power (dBm)	Limit (dBm)
BT LE	2402	3.18	5.02	
BT LE	2440	3.11	4.93	
BT LE	2480	2.98	4.74	

Note: Average power is for reference only



# 3.4 **Power Spectral Density**

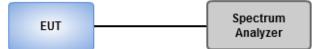
#### 3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

#### 3.4.2 Test Procedures

- Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
  - 1. Set the RBW = 3kHz, VBW = 10kHz.
  - 2. Detector = Peak, Sweep time = auto couple.
  - 3. Trace mode = max hold, allow trace to fully stabilize.
  - 4. Use the peak marker function to determine the maximum amplitude level.
- Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
  - 1. Set the RBW = 100kHz, VBW = 300 kHz.
  - 2. Detector = RMS, Sweep time = auto couple.
  - 3. Set the sweep time to: ≥ 10 x (number of measurement points in sweep) x (maximum data rate per stream).
  - 4. Perform the measurement over a single sweep.
  - 5. Use the peak marker function to determine the maximum amplitude level.\

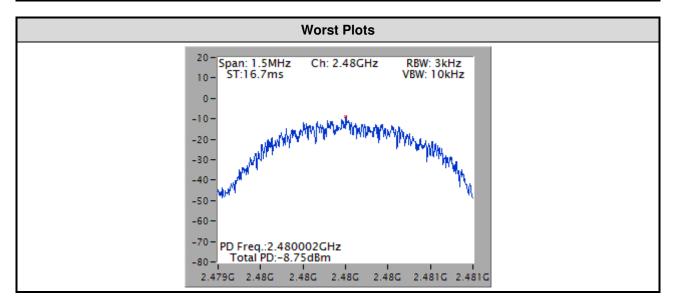
#### 3.4.3 Test Setup





Mode	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BT LE	2402	-9.52	8
BT LE	2440	-9.74	8
BT LE	2480	-8.75	8

#### 3.4.4 Test Result of Power Spectral Density





# 3.5 Emissions in Restricted Frequency Bands

#### 3.5.1 Limit of Emissions in 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.

#### 3.5.2 Test Procedures

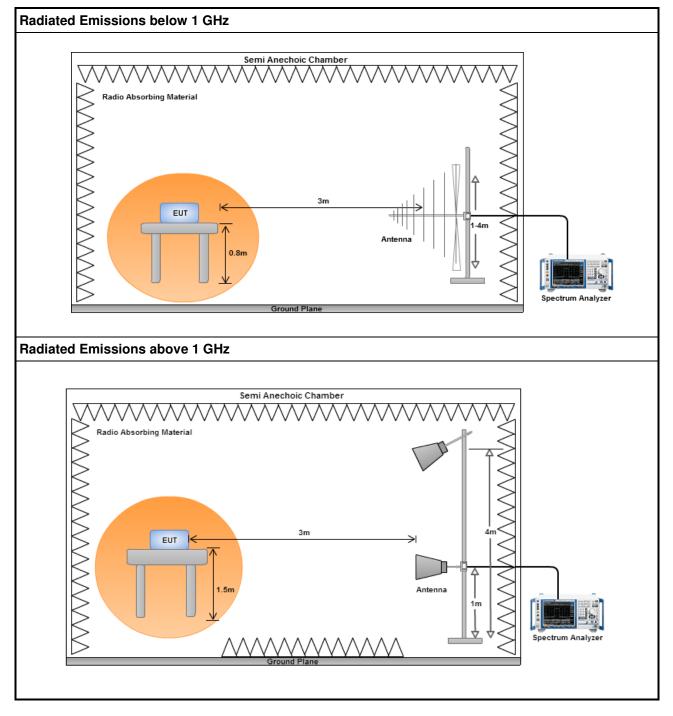
- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
- 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:

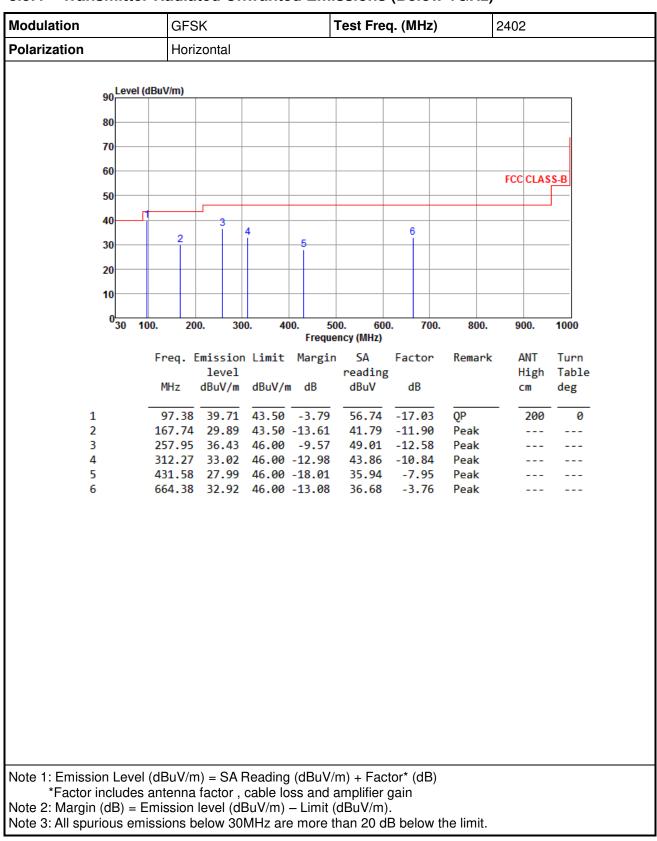
- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission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



#### 3.5.3 Test Setup





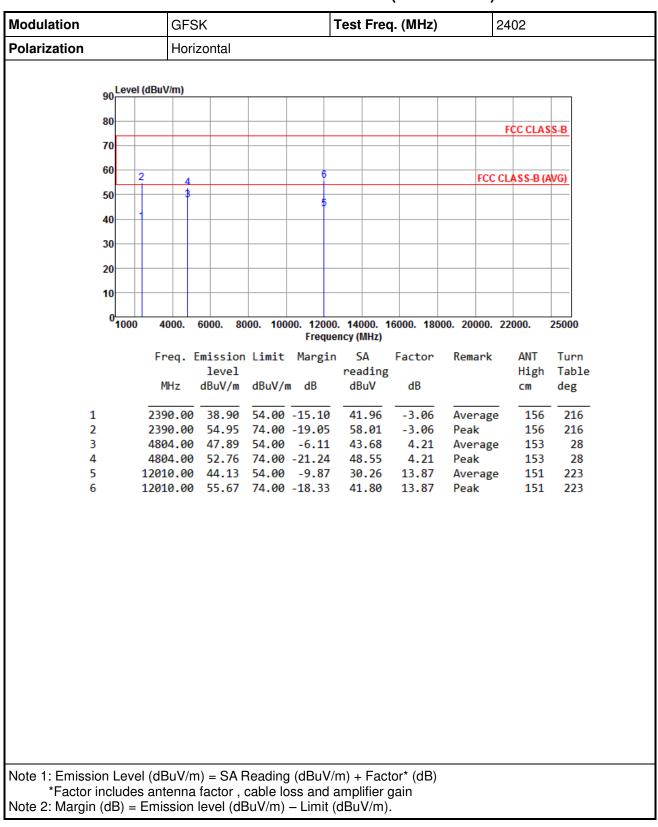


### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



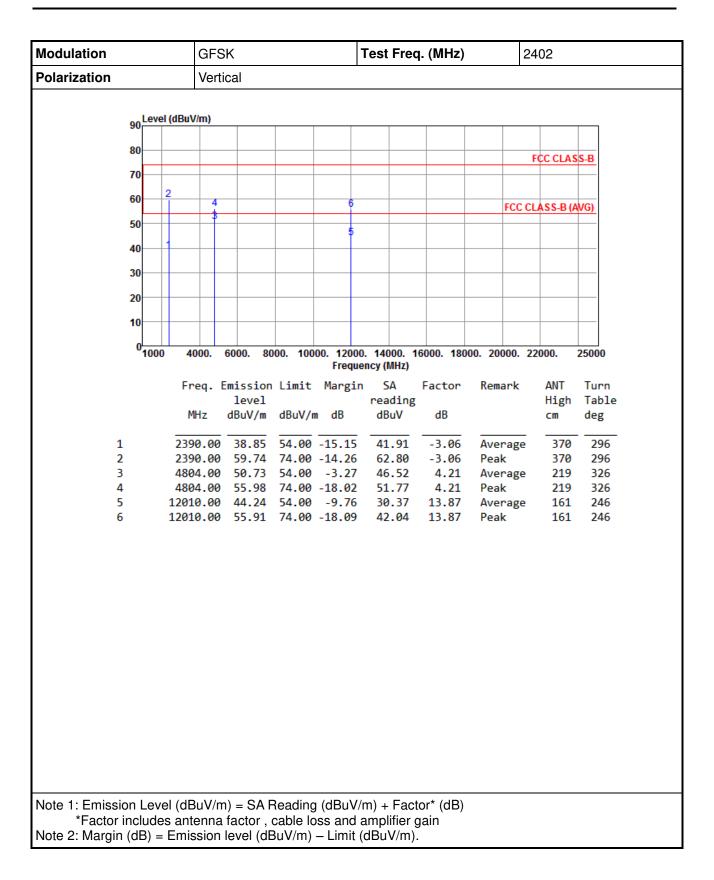
Modulation	GFS	κ		1	Fest Fre	q. (MHz)		2402		
Polarization	Vert	ical								
Lov	ol (dBu)//m)									
90	el (dBuV/m)									
80										
70										
60										
								FCC	CLAS	SS-B
50										
40	2	3								
30		Ĭ			4				5	
20										
10										
0 <mark></mark>	100. 20	0. 30	0. 40	00. 50	0. 60	0. 700.	. 800.	90	0.	1000
				Freque	ncy (MHz)					
	Freq.		Limit	Margin		Factor	Remark		NT.	Turn
	MHz	level dBuV/m	dBuV/r	n dB	reading dBuV	g dB		H: CI	igh m	Table deg
1		30.53				-12.48	Peak			
2 3		38.14 33.62			55.08 47.86	-16.94 -14.24	Peak Peak			
4				-16.00	36.25		Peak			
5				-15.47			Peak			
6	997.09	32.13	54.00	-21.87	31.50	0.63	Peak			
Note 1: Emission Lev										
*Factor includ	es antenna	factor,	cable lo	ss and a	mplifier	gain				
Note 2: Margin (dB) = Note 3: All spurious e	= EMISSION	ievel (dt	3uv/m) MHz ar	– Limit ((	uBuV/m)	). Rhelowi	tha limit			
Note 5. All spurious e	51115510115 0		ivii iz ali	e more li	iaii 20 0	שטופת ם				



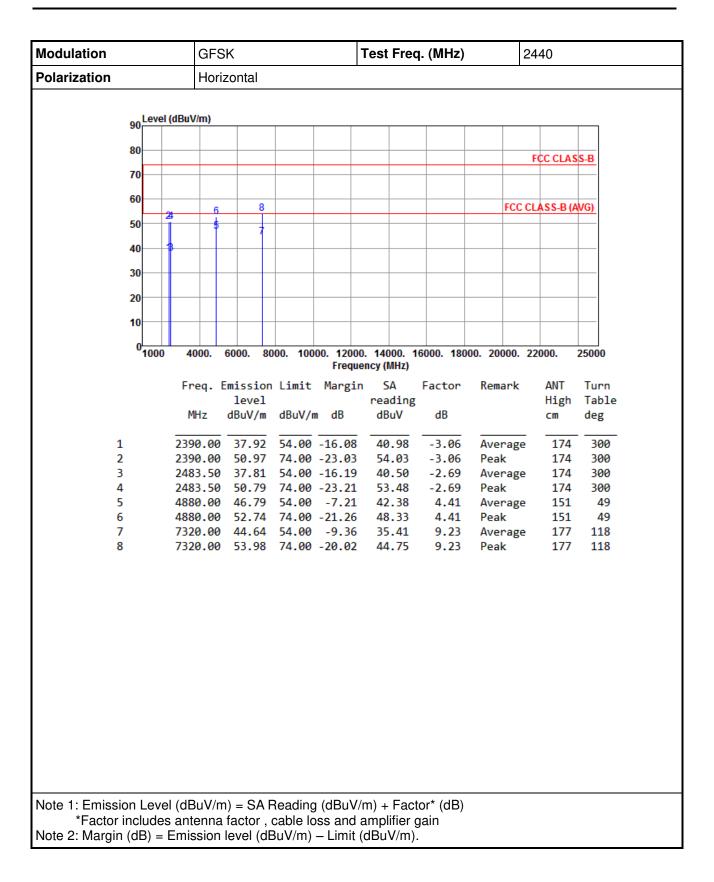


### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK

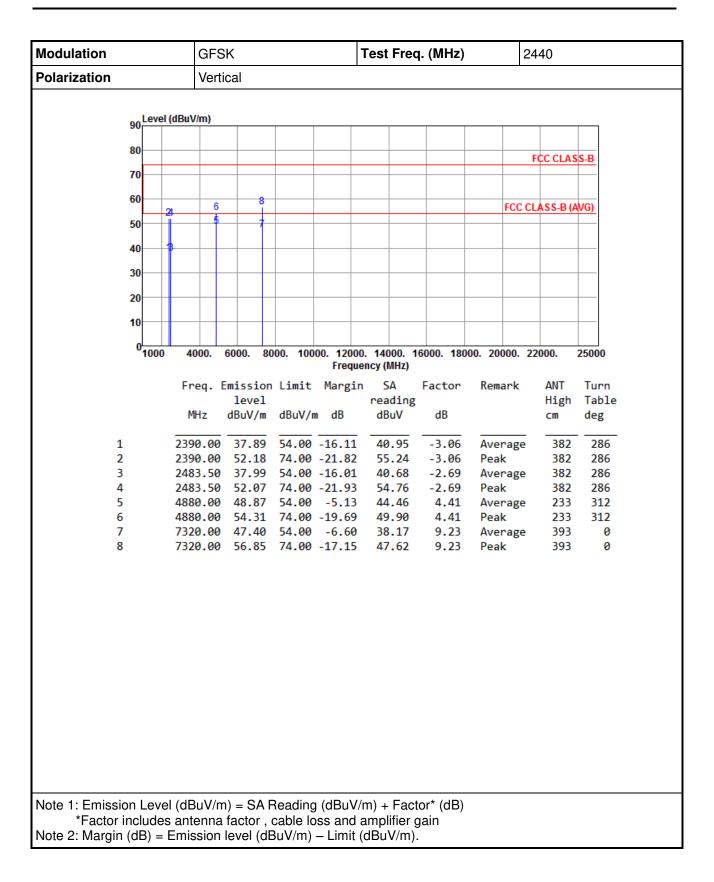




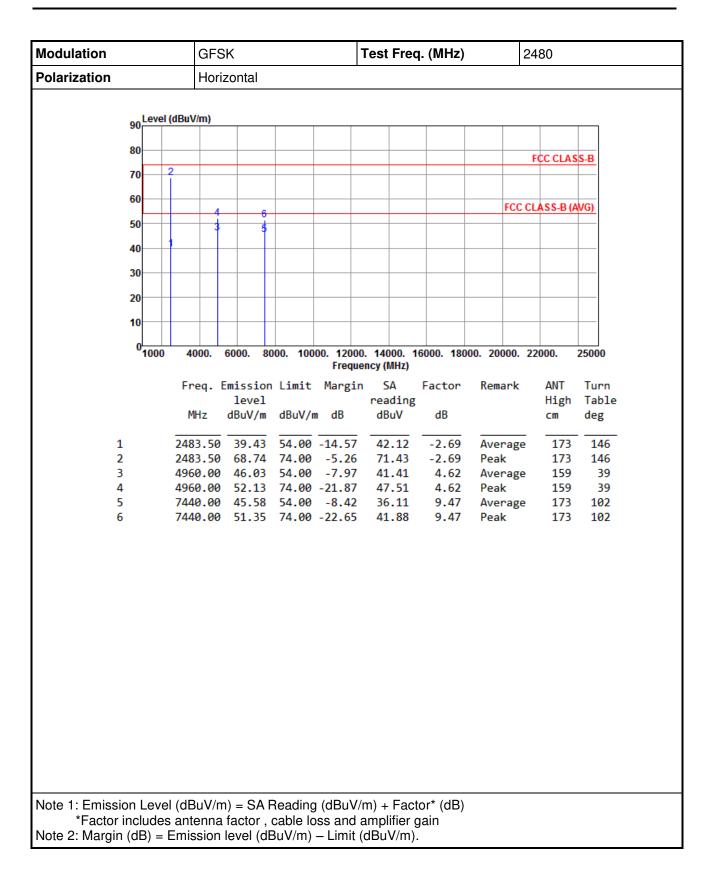




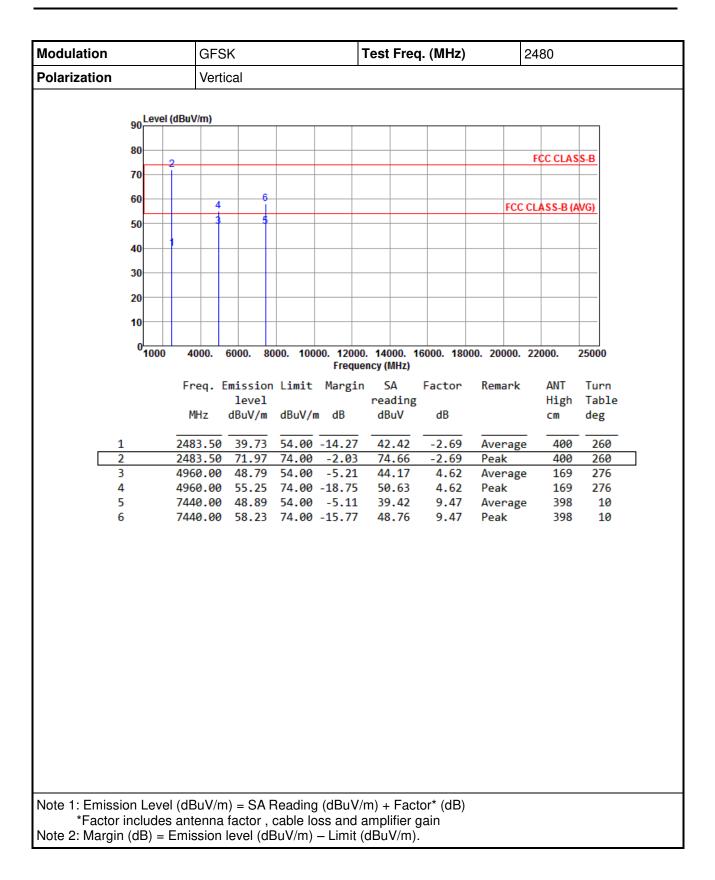














# 3.6 Emissions in non-restricted Frequency Bands

#### 3.6.1 Emissions in non-restricted frequency bands limit

The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

#### 3.6.2 Test Procedures

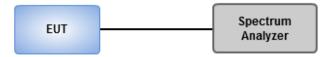
#### **Reference Level Measurement**

- 1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- 2. Set Sweep time = auto couple, Trace mode = max hold.
- 3. Allow trace to fully stabilize.
- 4. Use the peak marker function to determine the maximum amplitude level.

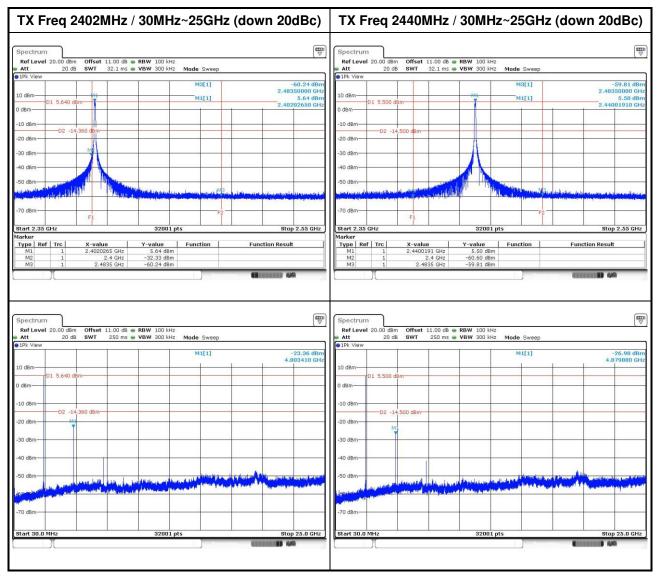
#### **Unwanted Emissions Level Measurement**

- 1. Set RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
- 2. Trace Mode = max hold, Sweep = auto couple.
- 3. Allow the trace to stabilize.
- 4. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

#### 3.6.3 Test Setup







### 3.6.4 Test Result of Emissions in non-restricted Frequency Bands



	z / 30MHz~25GHz (d			
ectrum				
	8 <b>e RBW</b> 100 kHz Is <b>e VBW</b> 300 kHz Mode Sweep	<u> </u>		
Pk View				
10-1	M3[1]	-39.08 dBm 2.48350000 GHz		
D1 5.270 dBm	M1[1] <sup>M1</sup>	5.27 dBm 2.48000530 GHz		
IBm				
0 dBm				
) dBm-				
) dBm				
dBm				
) dBm-				
	in the second	and the second state of the second state of the second		
) dBm-				
F1				
art 2.35 GHz rker	32001 pts	Stop 2.55 GHz		
Ref  Trc  X-value    M1  1  2.4800053 GHz	Y-value Function 5.27 dBm	Function Result		
M2 1 2.4 GHz	-59.44 dBm			
	-39.08 dBm			
M3 1 2.4835 GHz	-39.08 dBm	C		
M3 1 2.4835 GHz	-39.08 dBm	<b>₩</b>		
M3 1 2.4835 GHz			 	
M3 1 2.4835 GHz	B • RBW 100 kHz	-29.28 dBm	 	
M3 1 2.4835 GHz	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	( <del>\overline{\beta})</del>	 	
M3  1  2.4835 GHz    vectrum	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3 1 2.4835 GHz	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3  1  2.4835 GHz    vectrum	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3 1 2.4835 GHz	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3  1  2.4835 GHz    vectrum	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3  1  2.4835 GHz    vectrum  0  0  0    vectrum  0.00 dBm  Offset 11.00 d  0    vectrum  20 dB  SWT  250 m    vectrum  0  8  SWT  250 m    vectrum  0  0  5.270 dBm  0  0    0  dBm  0  1  5.270 dBm  0  0    0  dBm  0  -1  7.30 dBm  0  0	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3  1  2.4835 GHz    ectrum	B <b>RBW</b> 100 kH2 s <b>VBW</b> 300 kH2 <b>Mode</b> Sweep	-29.28 dBm		
M3  1  2.4835 GHz    vectrum	B • RBW 100 kH2 s • VBW 300 kH2 Mode Sweep M1[1]	-29.28 dBm 4.960250 GHz		
M3  1  2.4835 GHz    ectrum	B • RBW 100 kHz s • VBW 300 kHz Mode Sweep M1[1]	-29.28 dBm 4.960250 GHz		
M3  1  2.4835 GHz    opectrum	B RBW 100 KHz Is VBW 300 KHz Mode Sweep M1[1]	-29.28 dBm 4.960250 GHz		
M3  1  2.4835 GHz    opectrum	B • RBW 100 kHz s • VBW 300 kHz Mode Sweep M1[1]	-29.28 dBm 4.960250 GHz		
M3  1  2.4835 GHz    opectrum	B • RBW 100 kHz s • VBW 300 kHz Mode Sweep M1[1]	-29.28 dBm 4.960250 GHz		
M3  1  2.4835 GHz    opectrum	B • RBW 100 kHz s • VBW 300 kHz Mode Sweep M1[1]	-29.28 dBm 4.960250 GHz		



# 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 <u>http://www.icertifi.com.tw</u>.

#### Linkou

Tel: 886-2-2601-1640 No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.

#### Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

#### Kwei Shan Site II Tel: 886-3-271-8640

No. 14-1, Lane 19, 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

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