

# **FCC Test Report**

FCC ID	:	XNAWBS06
Equipment	:	Body
Model No.	:	WBS06
Brand Name	:	Nokia
Applicant	:	Withings
Address	:	2 rue Maurice Hartmann, 92130 Issy-les-Moulineaux, FRANCE
Standard	:	47 CFR FCC Part 15.247
<b>Received Date</b>	:	Dec. 16, 2016
Tested Date	:	Dec. 20 ,2016 ~ Jan. 10, 2017

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.

**Reviewed by:** 

Approved by:

ong Cher





Along Cherly/ Assistant Manager Gary Chang / Manager



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# **Release Record**

Report No.	Version	Description	Issued Date
FR5D1801-03AE	Rev. 01	Initial issue	May 12, 2017



# Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	Note	N/A
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 4960.00MHz 51.53 (Margin -2.47dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Power [dBm]: 9.01	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

Note: The EUT consumes DC power from battery, so the test is not required.



# **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	(Low energy) uses G	FSK modulation.						

#### 1.1.2 Antenna Details

Ant. No.	Brand	Model	Туре	Gain (dBi)	Connector	Remarks
1	BROADCOM	BCM9Fractal64	PCB	2.8	N/A	

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

Power Supply Type6Vdc from battery(1.5Vdc AAA battery x4).	
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#### 1.1.4 Accessories

N/A



### 1.1.5 Channel List

	Frequency	band (MHz)		2400~2483.5			
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	Tera Term, Version: 4.74
Duty cycle of test signal (%)	68.00%
Duty Factor (dB)	1.67

### 1.1.7 Power Setting

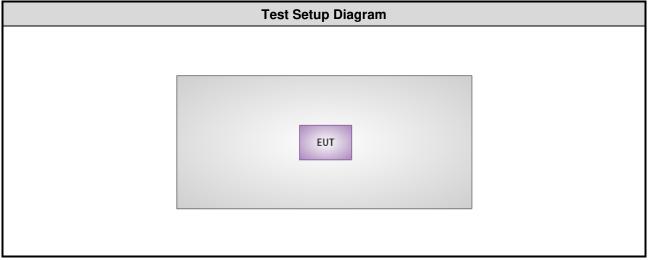
Modulation Mode	Test Frequency (MHz)				
	2402	2440	2480		
GFSK/1Mbps	Default	Default	Default		



# **1.2 Local Support Equipment List**

	Support Equipment List							
No.	No. Equipment Brand Model FCC ID Signal cable / Length (m)							
1	Notebook	DELL	Latitude E6430	DoC				

### 1.3 Test Setup Chart



Note: The support notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.



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

Test Item	Radiated Emission								
Test Site	966 chamber1 / (03CH01-WS)								
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until				
Spectrum Analyzer	R&S	FSV40	101498	Nov. 25, 2016	Nov. 24, 2017				
Receiver	R&S	ESR3	101658	Nov. 24, 2016	Nov. 23, 2017				
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017				
Horn Antenna 1G-18G	ETS-LINDGREN	3115	00149268	Aug. 31, 2016	Aug. 30, 2017				
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017				
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017				
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 09, 2016	Dec. 08, 2017				
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017				
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017				
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017				
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 09, 2016	Dec. 08, 2017				
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 09, 2016	Dec. 08, 2017				
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 09, 2016	Dec. 08, 2017				
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 09, 2016	Dec. 08, 2017				
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 09, 2016	Dec. 08, 2017				
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 09, 2016	Dec. 08, 2017				
Measurement Software	AUDIX	e3	6.120210g	NA	NA				

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. 17, 2016	Feb. 16, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	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 v03r05

# 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
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.63dB



# 2 Test Configuration

# 2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	24°C / 62-66%	Kevin Lee
RF Conducted	TH01-WS	22°C / 63%	Brad Wu

➢ FCC Designation No.: TW2732

➢ FCC site registration No.: 181692

IC site registration No.: 10807A-1

# 2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Radiated Emissions ≤ 1GHz	BT LE	2480	1Mbps	
Radiated Emissions > 1GHz	BT LE	2402, 2440, 2480	1Mbps	
Maximum Output Power				
6dB bandwidth	BT LE	2402, 2440, 2480	1Mbps	
Power spectral density				



# 3 Transmitter Test Results

# 3.1 6dB and Occupied Bandwidth

#### 3.1.1 Limit of 6dB Bandwidth

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

#### 3.1.2 Test Procedures

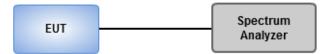
#### 6dB Bandwidth

- 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.

### 3.1.3 Test Setup





Mode	Freq. (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit of 6dB Bandwidth (kHz)
BT LE	2402	0.674	1.05	500
BT LE	2440	0.674	1.05	500
BT LE	2480	0.674	1.05	500

# 3.1.4 Test Result of 6dB and Occupied Bandwidth

Wor	t Plots
6dB Bandwidth	99% Occupied Bandwidth
pectrum T	Spectrum
Ref Level 20.00 dBm Offset 12.30 dB 🖷 RBW 100 kHz	Ref Level 20.00 dBm Offset 12.30 dB . RBW 20 kHz
Att 30 dB SWT 1 ms  VBW 300 kHz Mode Sweep	Att 30 dB SWT 3 ms VBW 100 kHz Mode Sweep
M1[1] 1.66 dBr 2.40163478 GH	I Sa View
0 dBm 01 7.562 dBm	D1 3.916 dBm M1 . () . D1111 0.03 d
dBm D2 1.562 dBm 673.91 kH	02 -2.084 dBm WWV - 539.180 kH
11 T2	-10 dBm
0 dBm	-20 dBm
	-30 dBm
10 dBm	
i0 dBm	-40 dBm
	VS0 dBm
0 dBm	-60 dBm
	-70 dBm
0 dBm-	F1 F2
10 dBm	CF 2.402 GHz 3000 pts Span 3.0 MHa
	Marker
10 dBm - F2	Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.40164238 GHz         -2.08 dBm         -2.08 dBm         -
F1 F1	T1 1 2.4014525 GHz -13.07 dBm Occ Bw 1.049 MHz
F 2.402 GHz 691 pts Span 3.0 MHz	T2         1         2.4025015 GHz         -11.58 dBm           D1         M1         1         539.18 kHz         0.03 dB
Mexication Balance B 49	Mexander Internet 40



### 3.2 **RF Output Power**

#### 3.2.1 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

#### 3.2.2 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.

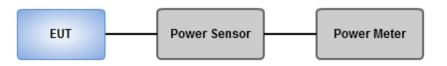
#### Power meter

- 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.

#### 3.2.3 Test Setup





3.2.4	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 (dBm) (dBi)		Limit (dBm)	
BT LE	2402	6.17	7.90	30	2.8	10.70	36	
BT LE	2440	7.29	8.63	30	2.8	11.43	36	
BT LE	2480	7.96	9.01	30	2.8	11.81	36	

Mode	Freq. (MHz)	AV Power (mW)	AV Power (dBm)	Limit (dBm)
BT LE	2402	5.28	7.23	
BT LE	2440	5.96	7.75	
BT LE	2480	6.46	8.10	

Note: Average power is for reference only



## 3.3 **Power Spectral Density**

#### 3.3.1 Limit of Power Spectral Density

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

#### 3.3.2 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.

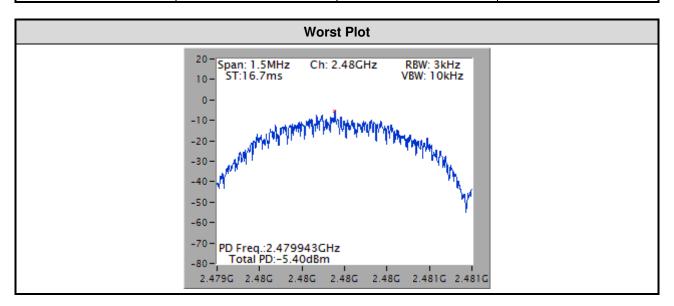
#### 3.3.3 Test Setup





### 3.3.4 Test Result of Power Spectral Density

Mode	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
BT LE	2402	-6.45	8
BT LE	2440	-5.77	8
BT LE	2480	-5.40	8





# 3.4 Emissions in Restricted Frequency Bands

#### 3.4.1 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.

#### 3.4.2 Test Procedures

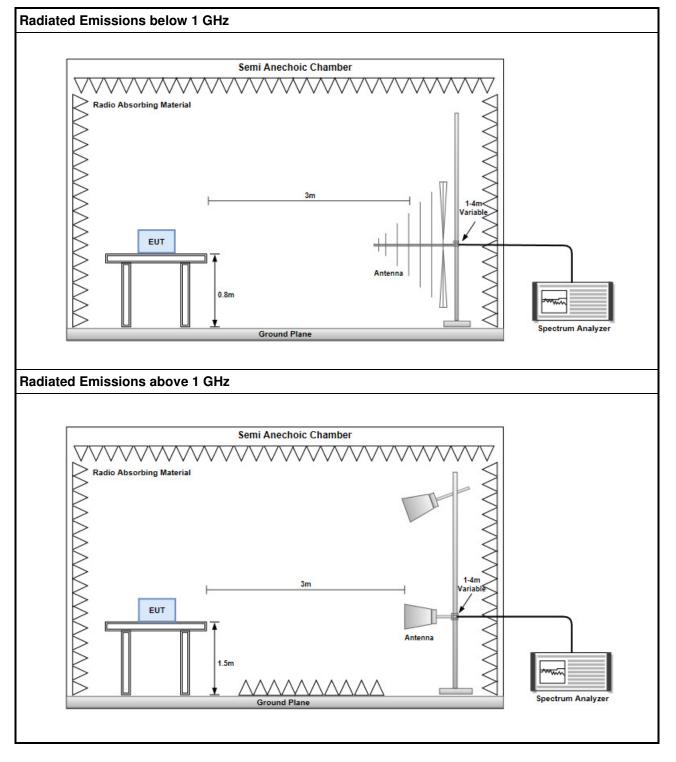
- Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

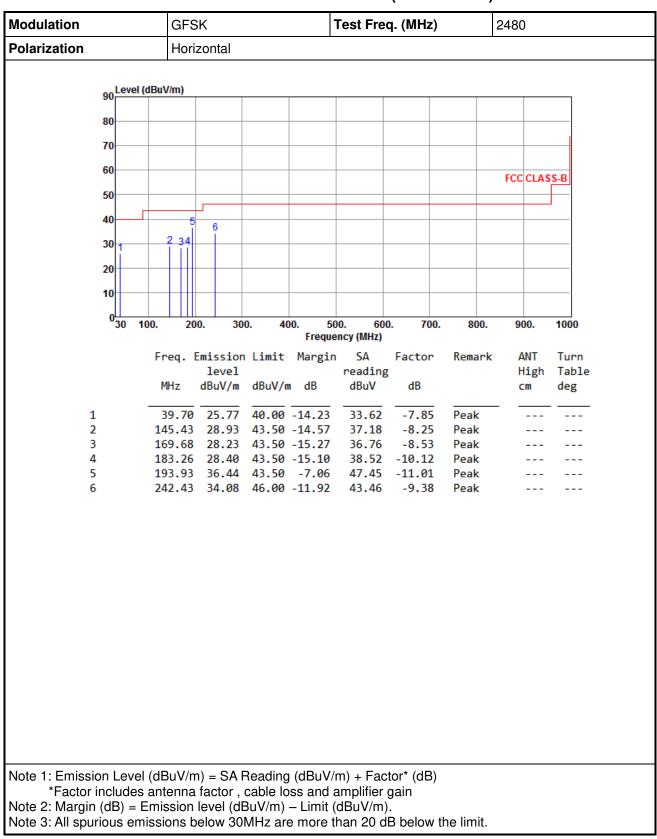
- 1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
- 2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
- 3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission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



#### 3.4.3 Test Setup





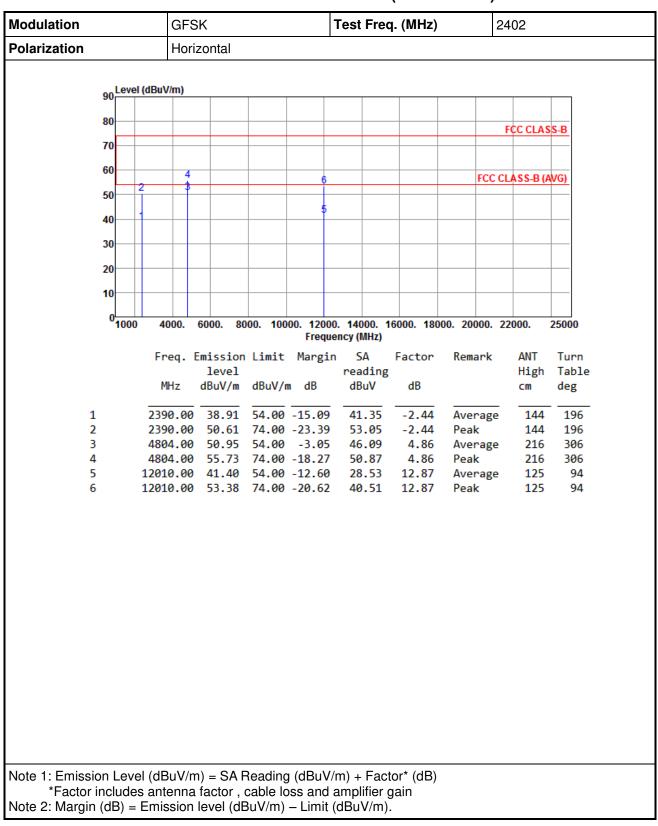


### 3.4.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)



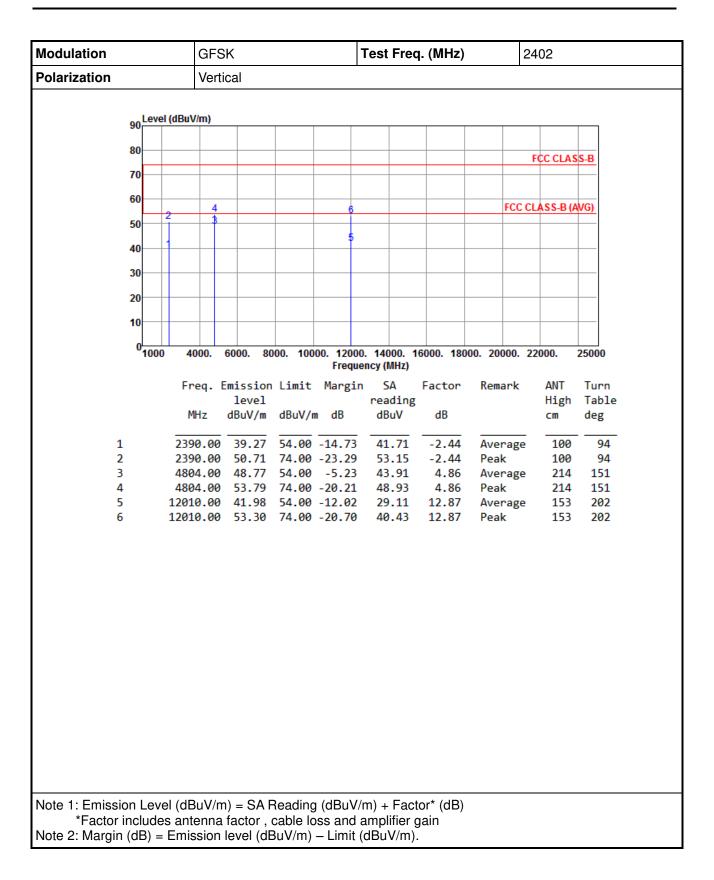
Modulation			GFSK Test Freq. (MHz) 2480									
Polarization			Vertical									
	90 Lev	el (dBuV	<u>/m)</u>									
	80											
	70											
	70											
	60									FCC	CLAS	S-B
	50											
												J
	40	2 4										
	30	2 4	5	6								
	20											
	20											
	10											
	0 <mark></mark>	100.	20	0. 30	0 40	)0. 50	0. 60	0. 700	. 800.	90	0	1000
	50	100.	20	0. 50	0. 40		ncy (MHz)	0. 700	. 000.	30	0.	1000
		Fre	eq. E		Limit	Margin		Factor	Remark		NT	Turn
				level	10.14	10	reading				igh	Table
		M	Hz	dBuV/m	dBuV/n	n dB	dBuV	dB		C	m	deg
1		4	0.67	28.97	40.00	-11.03	36.74	-7.77	Peak			
2	2	7:	1.71	31.68	40.00	-8.32	42.69	-11.01	Peak			
3				25.79			37.53		Peak			
4						-12.93 -14.57		-10.13 -11.01	Peak Peak			
6				25.82			35.20	-9.38	Peak			
	, 	24	2.45	23.02	40.00	20.10	55.20	5.50	1 Curk			
Note 1: Emissi	on Lev	vel (dB	uV/m	n) = SAF	Reading	(dBuV/r	n) + Fac	tor* (dB)				
*Factor	includ	es ante	enna	factor,	cable lo	ss and a	mplifier	gain				
Note 2: Margin	(dB) :	= Emis	sion	level (dE	BuV/m)	– Limit (	dBuV/m	).				
Note 3: All spu	rious e	emissic	ons b	elow 30	MHz are	e more th	1an 20 d	B below	the limit.			



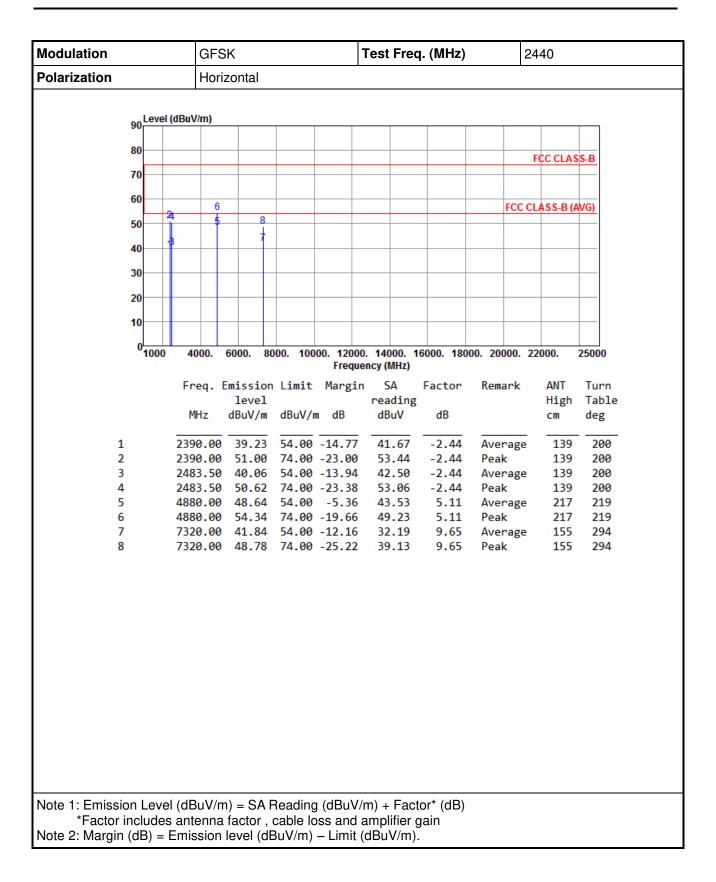


### 3.4.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for GFSK

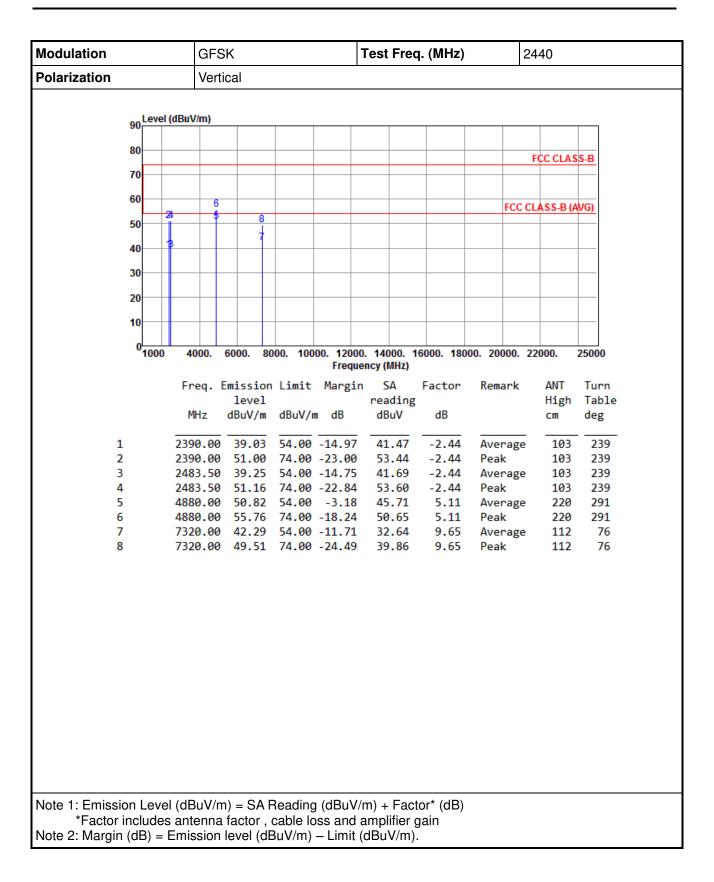




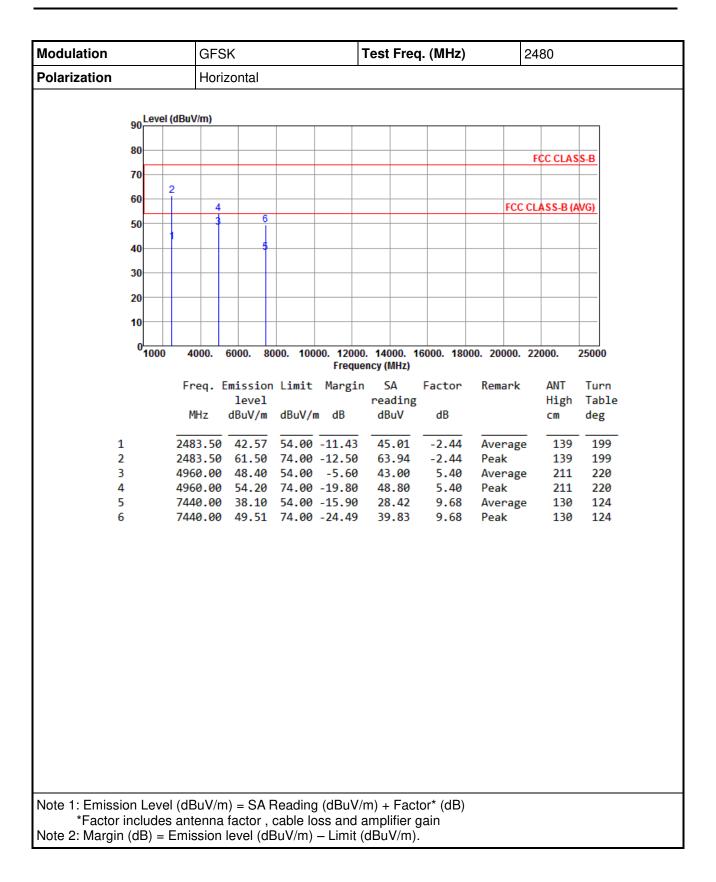




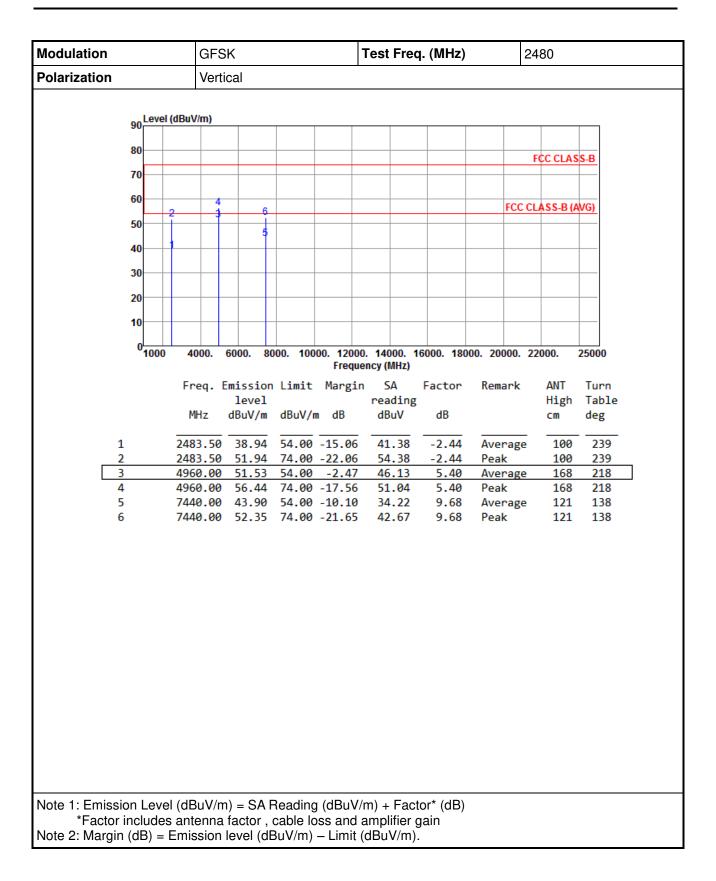














# 3.5 Emissions in non-restricted Frequency Bands

#### 3.5.1 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.

#### 3.5.2 Test Procedures

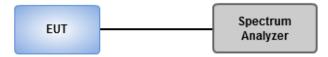
#### **Reference Level Measurement**

- 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.

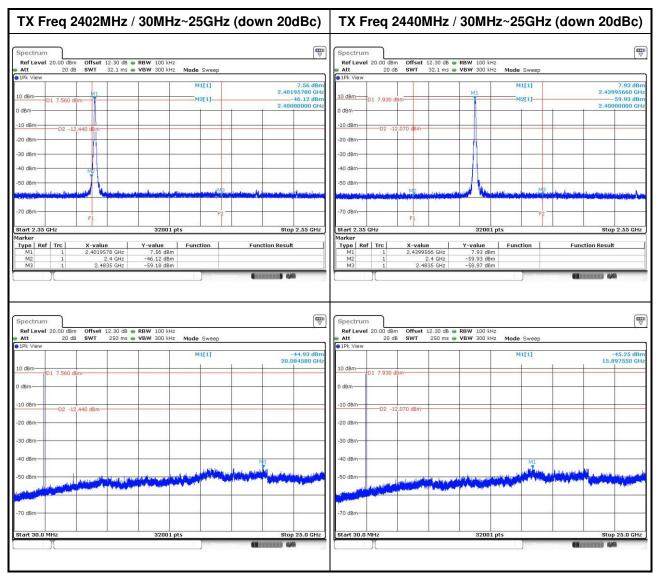
#### **Unwanted Emissions Level Measurement**

- 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.

#### 3.5.3 Test Setup







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



pectrum					
tt 20 dB SWT	12.30 dB • RBW 100 kHz 32.1 ms • VBW 300 kHz Mode	Sweep			
LPk View	M	3[1]	-54.32 dBm		
0 dBm01 8.370 dBm	M	M1 2.48	350000 GHz 		
d8m		2.47	994910 GHz		
0 dBmD2 -11.630 dBm					
0 dBm-					
0 dBm					
0 dBm					
D dBm	and the second state of the second	and the statement of the statement	And the state of a state burgers		
D dBm F1		F2			
art 2.35 GHz	32001 pts	Stop	2.55 GHz		
orker 'ype   Ref   Trc   X-value		tion Function Resul	t I		
M1 1 2.47994	91 GHz 8.37 dBm 2.4 GHz -60.53 dBm				
M2 1 2	.,+ GHz -00.03 übili				
M2 1 2 M3 1 2.48	-54.32 dBm		0		
M3 1 2.48	-54.32 dBm	(			
M3 1 2.48	12.30 dB         RBW 100 kHz           250 ms         VBW 300 kHz				
M3 1 2.48	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3 1 2.48	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	( <del>**</del> )		
M3 1 2.48 Dectrum Lef Level 20.00 dBm Offset 1 tt 20 dB SWT Pk View dBm 01 8.370 dBm	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3         1         2.48           pectrum	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3         1         2.48           pectrum	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3         1         2.48           pectrum	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3         1         2.48           pectrum	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3         1         2.48           pectrum	25 GHz -54.32 dBm 12.30 dB ■ RBW 100 kHz 250 ms ● VBW 300 kHz Mode	Sweep	(₩) +4.27 dBm		
M3         1         2.48           ectrum	25 GHz -54.32 dBm	Sweep 1[1] 15.1	(₩) 44.27 dBm 572950 GHz		
M3         1         2.48           pectrum	12.30 dB RBW 100 KHz 250 ms VBW 300 KHz Mode Mage Not KHz Mode	Sweep 1[1] 15.1	(₩) 44.27 dBm 572950 GHz		
M3         1         2.48           pectrum	25 GHz -54.32 dBm	Sweep	(₩) 44.27 dBm 572950 GHz		
M3         1         2.48           pectrum	12.30 dB RBW 100 KHz 250 ms VBW 300 KHz Mode Mage Not KHz Mode	Sweep 1[1] 15.1	(₩) 44.27 dBm 572950 GHz		
M3         1         2.48           pectrum	12.30 dB RBW 100 KHz 250 ms VBW 300 KHz Mode Mage Not KHz Mode	Sweep 1[1] 15.1	(₩) 44.27 dBm 572950 GHz		
M3         1         2.48           vectrum	12.30 dB RBW 100 KHz 250 ms VBW 300 KHz Mode Mage Not KHz Mode	Sweep  1[1] 15.1	(₩) 44.27 dBm 572950 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 (EMC and Wireless Communication Laboratory), 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 District. 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 District, Tao Yuan City 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 District, Tao Yuan City 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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