

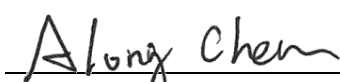
FCC Test Report

FCC ID : JVPER-80
Equipment : Enhanced Wireless Receiver
Model No. : ER-80
Brand Name : ZOWIE
Applicant : BENQ CORPORATION
Address : 16 Jihu Road, Neihu, Taipei 114, Taiwan
Standard : 47 CFR FCC Part 15.249
Received Date : Jun. 06, 2022
Tested Date : Jun. 15 ~ Jun. 24, 2022

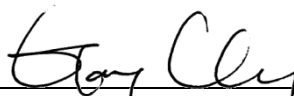
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the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

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR260609	Rev. 01	Initial issue	Jul. 12, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 2.334MHz 26.32 (Margin -19.68dB) - AV	Pass
15.249(a)	Field Strength of Fundamental	Meet the requirement of limit	Pass
15.249(a)(d)	Field Strength of Harmonics and Emissions Radiated outside of the Specified Frequency Bands	Meet the requirement of limit	Pass
15.215(c)	20dB bandwidth	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Modulation	Ch. Freq. (MHz)	Channel Number	Data Rate
2400-2483.5	GFSK	2403-2475	1-5 [5]	1 Mbps

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	BENQ Corporation	ER-80 ANT	Patch Antenna	NA	5.69

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Type	5Vdc from host
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1.1.4 Accessories

No.	Equipment	Description
1	USB cable	Brand: Le Prestique Electronics Manufacturing Model: USB Type-C cable 2.05m non-shielded with one core

1.1.5 Channel List

Channel No.	Frequency (MHz)
1	2403
2	2423
3	2440
4	2461
5	2475

1.1.6 Test Tool and Duty Cycle

Test Tool	Bus Hound, Version: 7.00	
Duty Cycle and Duty Factor	Duty Cycle (%)	Duty Factor (dB)
	32.26	4.91

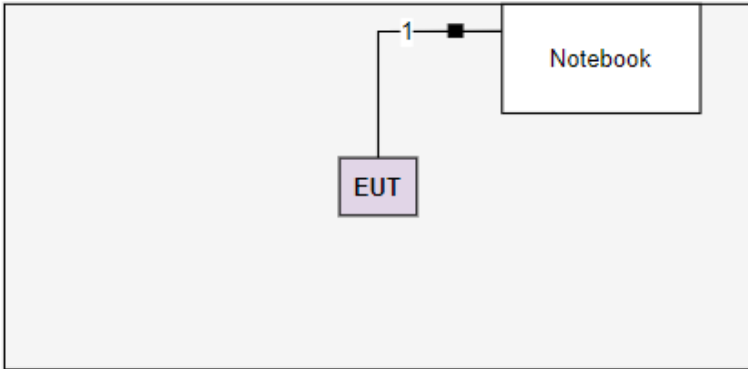
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)		
	2403	2440	2475
GFSK	Default	Default	Default

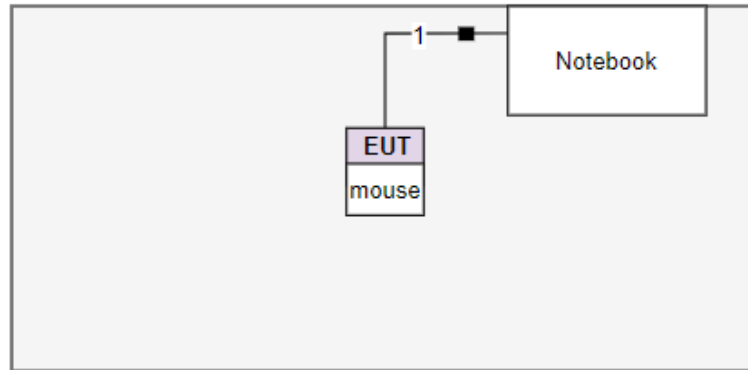
1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	USB cable	Le Prestique Electronics Manufacturing	USB Type-C cable	---	Provided by applicant.
3	Mouse	BenQ	EC2-CW	---	Provided by applicant.
4	Adapter	Samsung	ETA-U90JWS	---	---

1.3 Test Setup Chart

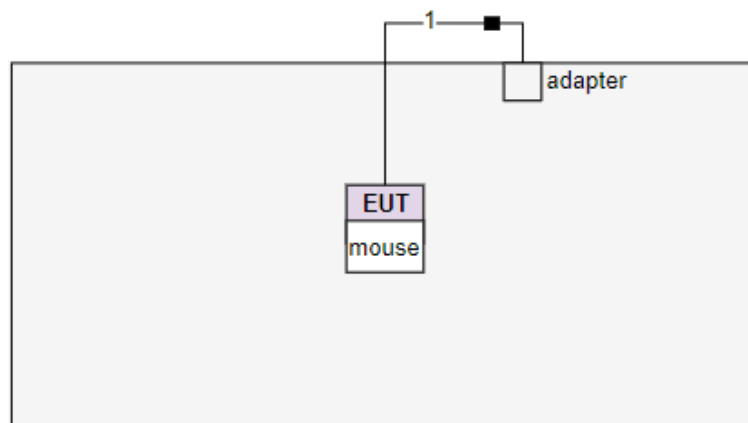
Test Setup Diagram (TX mode with notebook)	
	
No.	Signal cable / Length (m)
1	USB, 2.05m non-shielded with one core.

Test Setup Diagram (charging mode with notebook)



No.	Signal cable / Length (m)
1	USB, 2.05m non-shielded with one core.

Test Setup Diagram (charging mode with adapter)



No.	Signal cable / Length (m)
1	USB, 2.05m non-shielded with one core.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jun. 24, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Apr. 21, 2022	Apr. 20, 2023
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 07, 2022	Jan. 06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	01	May 10, 2022	May 09, 2023
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jun. 15 ~ Jun. 22, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.249
ANSI C63.10-2013

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
AC conducted emission	± 2.92 dB
Unwanted Emission ≤ 1 GHz	± 3.41 dB
Unwanted Emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	GFSK	2440	1 Mbps	TX
	Charging	-	-	Charging with NB
	Charging	-	-	Charging with adapter
Unwanted Emissions ≤ 1GHz	GFSK	2440	1 Mbps	TX
	Charging	-	-	Charging with NB
	Charging	-	-	Charging with adapter
Field Strength of Fundamental Unwanted Emissions > 1GHz 20dB bandwidth	GFSK	2403 / 2440 / 2475	1 Mbps	TX

3 Transmitter Test Results

3.1 Unwanted Emission

This section includes field strength of fundamental, field strength of harmonics and emissions radiated outside of the operating frequency bands.

3.1.1 Limit of field strength of fundamental and field strength of harmonics

Fundamental Frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400–2483.5 MHz	50	500

3.1.2 Limit of Unwanted Emissions

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in below table, whichever is the lesser attenuation.

Radiated emission limits			
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:

Quasi-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.

3.1.3 Test Procedures

1. 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:

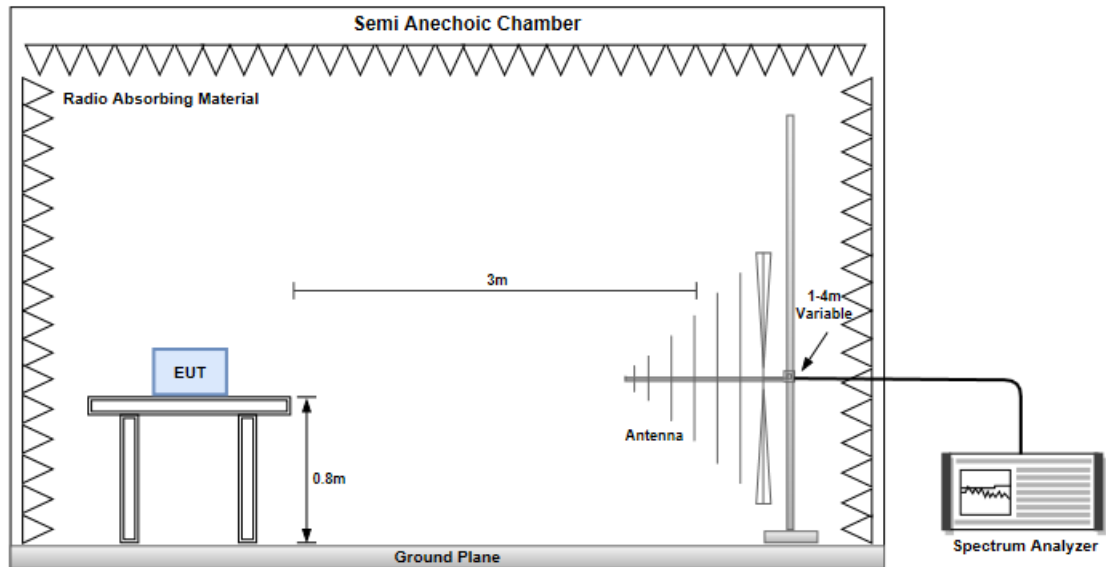
1. Radiated emission below 1GHz
120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission
2. Radiated emission above 1GHz / Peak value except fundamental
RBW=1MHz, VBW=3MHz and Peak detector
3. Radiated emission above 1GHz / Average value for field strength of fundamental and harmonics
The average value is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log (\text{Duty cycle}) = 20\log \frac{0.073913 \times 13\text{ms}}{100 \text{ ms}} = -40.35\text{dB}$$

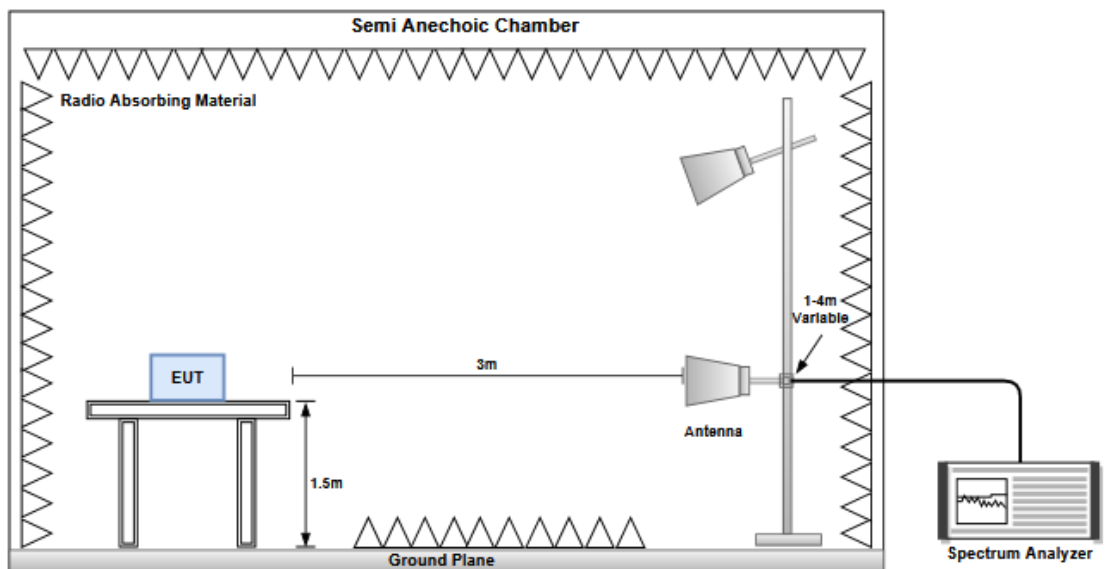
4. Radiated emission above 1GHz / Average value for other emissions
RBW=1MHz, VBW=1/T and Peak detector
5. Radiated emission Peak value for fundamental
RBW=2MHz, VBW=10MHz and Peak detector

3.1.4 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.5 Test Results

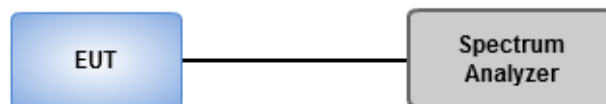
Refer to Appendix A.

3.2 20dB and Occupied Bandwidth

3.2.1 Test Procedures

1. Set resolution bandwidth (RBW) = 20 kHz, Video bandwidth = 100 kHz.
2. Detector = Peak(20 dB bandwidth) / Sample(Occupied bandwidth), 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 20dB relative to the maximum level measured in the fundamental emission.
5. Use the occupied measurement function of spectrum analyzer to measure 99% occupied bandwidth.

3.2.2 Test Setup



3.2.3 Test Results

Ambient Condition	23°C / 64%	Tested By	Roger Lu
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Refer to Appendix B.

3.3 AC Power Line Conducted Emissions

3.3.1 Limit of AC Power Line Conducted Emissions

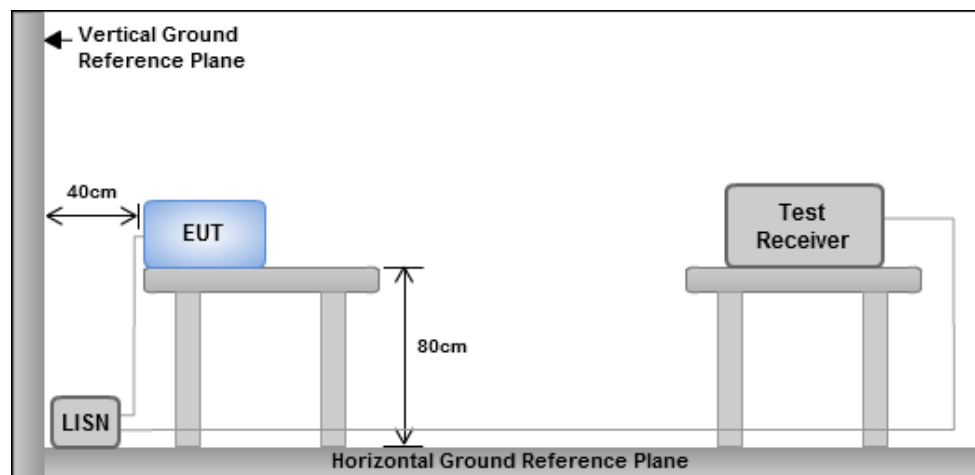
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.3.2 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.
2. 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.

3.3.3 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

3.3.4 Test Results

Refer to Appendix C.

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 Corporation (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 <http://www.icertifi.com.tw>.

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 Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., 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

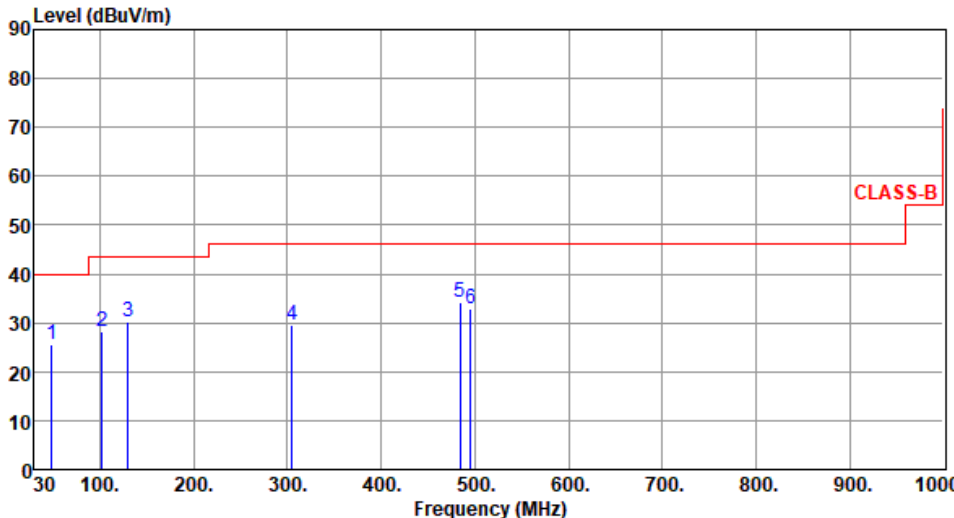
Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==



Unwanted Emissions (Below 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2440																																																																						
Polarization	Horizontal																																																																								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																									
<div><div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>48.21</td><td>25.56</td><td>40.00</td><td>-14.44</td><td>34.15</td><td>-8.59</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>102.26</td><td>28.21</td><td>43.50</td><td>-15.29</td><td>41.06</td><td>-12.85</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>129.68</td><td>30.29</td><td>43.50</td><td>-13.21</td><td>40.09</td><td>-9.80</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>304.59</td><td>29.65</td><td>46.00</td><td>-16.35</td><td>37.67</td><td>-8.02</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>484.56</td><td>34.12</td><td>46.00</td><td>-11.88</td><td>37.86</td><td>-3.74</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>495.68</td><td>32.83</td><td>46.00</td><td>-13.17</td><td>36.22</td><td>-3.39</td><td>Peak</td><td>---</td><td>---</td></tr></table></div>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	48.21	25.56	40.00	-14.44	34.15	-8.59	Peak	---	---	2	102.26	28.21	43.50	-15.29	41.06	-12.85	Peak	---	---	3	129.68	30.29	43.50	-13.21	40.09	-9.80	Peak	---	---	4	304.59	29.65	46.00	-16.35	37.67	-8.02	Peak	---	---	5	484.56	34.12	46.00	-11.88	37.86	-3.74	Peak	---	---	6	495.68	32.83	46.00	-13.17	36.22	-3.39	Peak	---	---
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<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</p>																																																																									

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Mode	Charging mode with notebook																																																																														
Polarization	Horizontal																																																																														
Test By :Roger Lu Temperature(°C):25 Humidity(%):61																																																																															
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5	450.26	37.46	46.00	-8.54	41.69	-4.23	Peak	---	---																																																																						
6	463.48	39.61	46.00	-6.39	43.64	-4.03	Peak	---	---																																																																						
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																															



Mode	Charging mode with notebook								
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61									
<div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div>									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	43.42	28.13	40.00	-11.87	36.66	-8.53	Peak	---	---
2	120.59	25.91	43.50	-17.59	36.55	-10.64	Peak	---	---
3	180.42	26.94	43.50	-16.56	37.20	-10.26	Peak	---	---
4	449.31	35.64	46.00	-10.36	39.90	-4.26	Peak	---	---
5	463.89	38.59	46.00	-7.41	42.61	-4.02	Peak	---	---
6	485.12	36.54	46.00	-9.46	40.28	-3.74	Peak	---	---
<div>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)</div> <div>*Factor includes antenna factor , cable loss and amplifier gain</div> <div>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</div> <div>Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</div>									



Mode	Charging mode with adapter								
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61									
<div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div>									
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level			reading			High	Table
		dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	43.68	20.89	40.00	-19.11	29.45	-8.56	Peak	---	---
2	159.26	29.25	43.50	-14.25	37.91	-8.66	Peak	---	---
3	174.13	28.65	43.50	-14.85	38.20	-9.55	Peak	---	---
4	189.45	24.31	43.50	-19.19	35.65	-11.34	Peak	---	---
5	324.56	22.46	46.00	-23.54	29.92	-7.46	Peak	---	---
6	455.12	27.59	46.00	-18.41	31.72	-4.13	Peak	---	---
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.									

Page No. : 6 of 13

Unwanted Emissions (Above 1GHz)

Modulation	GFSK	Test Freq. (MHz)	2403						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61									
<div><div>Level (dBUV/m)</div><div></div><div>Frequency (MHz)</div></div>									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2371.00	17.63	54.00	-36.37			Average	100	3
2	2371.00	57.98	74.00	-16.02	60.68	-2.70	Peak	100	3
3	2400.00	44.58	54.00	-9.42	47.35	-2.77	Average	100	3
4	2400.00	59.36	74.00	-14.64	62.13	-2.77	Peak	100	3
5	2403.00	63.37	94.00	-30.63			Average	100	3
6	2403.00	103.72	114.00	-10.28	106.50	-2.78	Peak	100	3
7	2531.00	13.66	54.00	-40.34			Average	100	3
8	2531.00	54.01	74.00	-19.99	56.56	-2.55	Peak	100	3
9	4806.00	18.90	54.00	-35.10			Average	248	31
10	4806.00	59.25	74.00	-14.75	55.12	4.13	Peak	248	31
11	7209.00	11.36	54.00	-42.64			Average	100	146
12	7209.00	51.71	74.00	-22.29	42.64	9.07	Peak	100	146

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.



Modulation	GFSK	Test Freq. (MHz)	2403						
Polarization	Vertical								
Test By :Roger Lu Temperature(°C):25 Humidity(%):61									
<div><div>Level (dBUV/m)</div><div><div>SRD-2.4G</div><div>SRD-2.4G(AV)</div></div><div>Frequency (MHz)</div></div>									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2371.00	11.08	54.00	-42.92			Average	319	68
2	2371.00	51.43	74.00	-22.57	54.13	-2.70	Peak	319	68
3	2400.00	37.85	54.00	-16.15	40.62	-2.77	Average	319	68
4	2400.00	50.36	74.00	-23.64	53.13	-2.77	Peak	319	68
5	2403.00	53.20	94.00	-40.80			Average	319	68
6	2403.00	93.55	114.00	-20.45	96.33	-2.78	Peak	319	68
7	2531.00	10.05	54.00	-43.95			Average	319	68
8	2531.00	50.40	74.00	-23.60	52.95	-2.55	Peak	319	68
9	4806.00	12.21	54.00	-41.79			Average	100	49
10	4806.00	52.56	74.00	-21.44	48.43	4.13	Peak	100	49
11	7209.00	12.91	54.00	-41.09			Average	100	173
12	7209.00	53.26	74.00	-20.74	44.19	9.07	Peak	100	173

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
Note 3: When average value is calculated not measured, no SA reading and factor value are listed.



Modulation	GFSK	Test Freq. (MHz)	2440
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61			
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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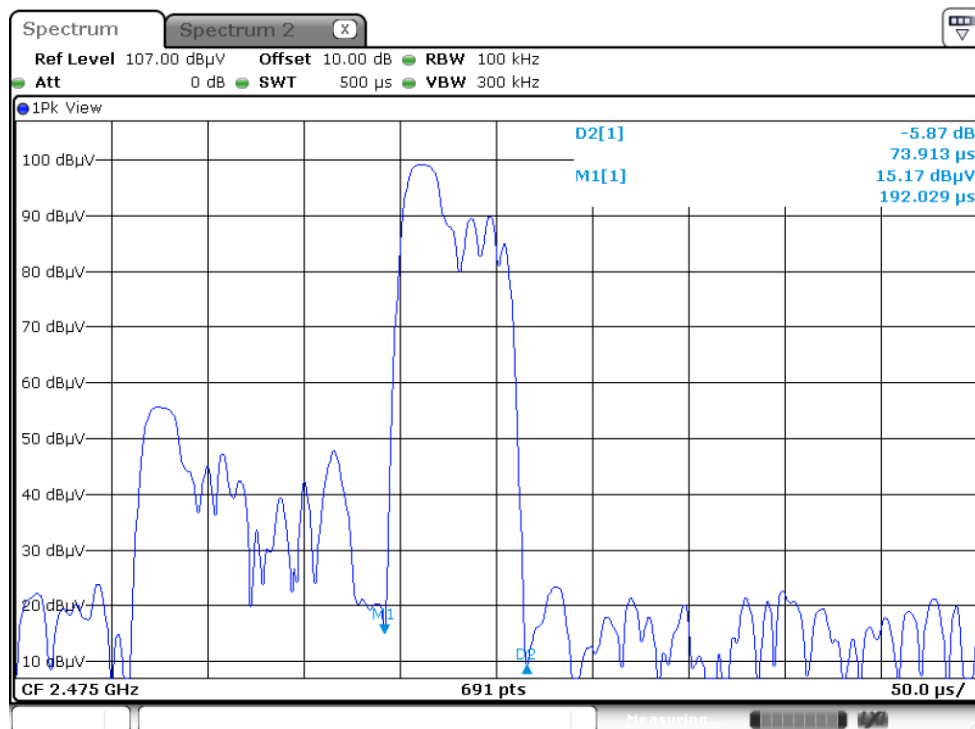
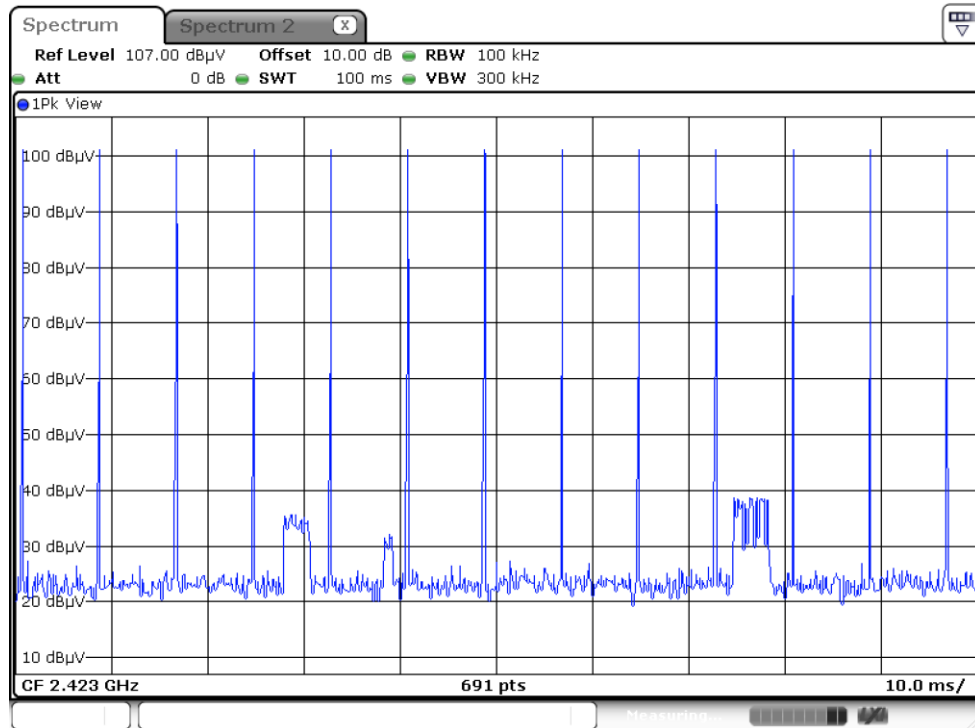
Modulation	GFSK	Test Freq. (MHz)	2440
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):25 Humidity(%):61			
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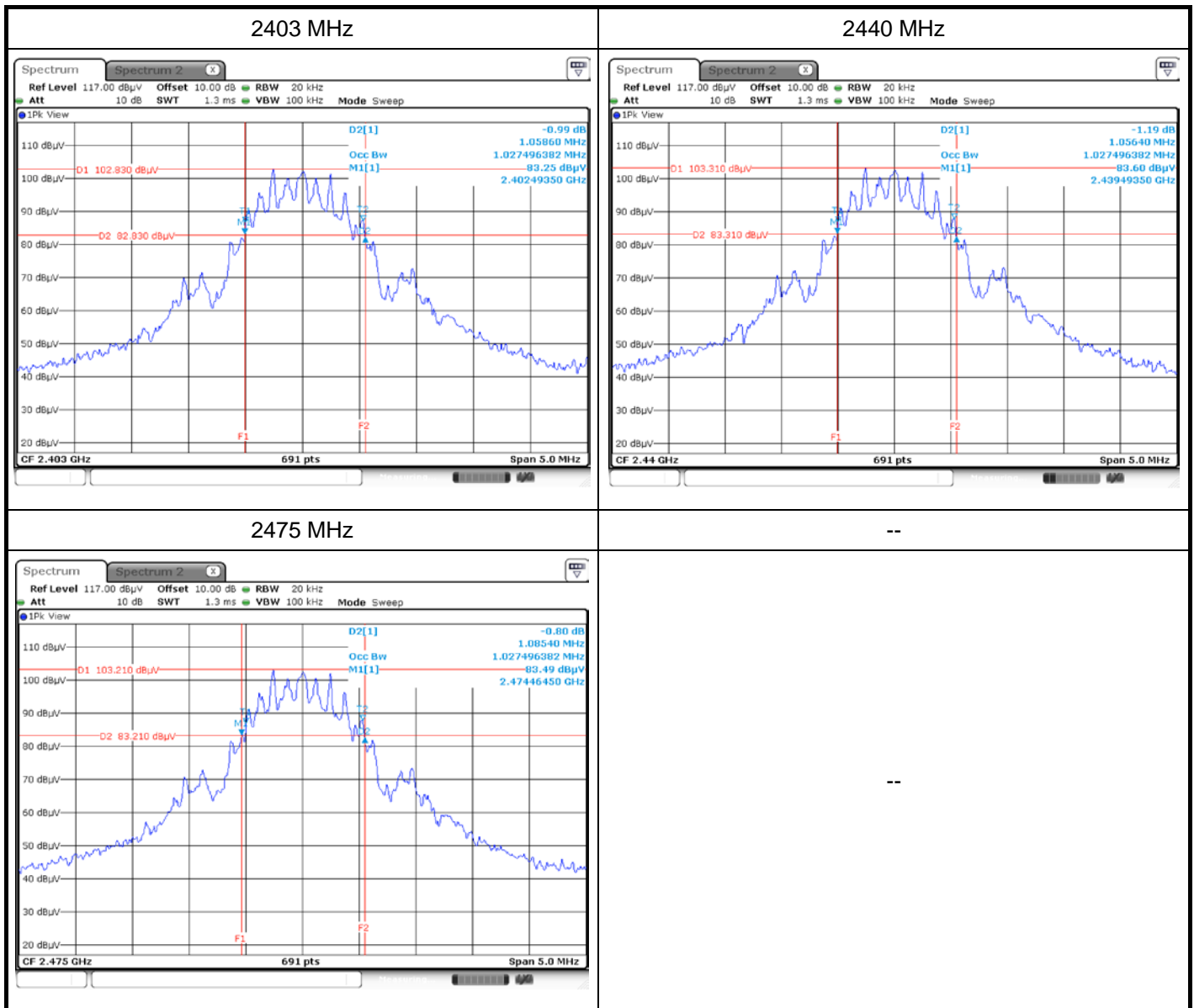
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$$20\log (\text{Duty cycle}) = 20\log \frac{0.073913 \times 13 \text{ ms}}{100 \text{ ms}} = -40.35\text{dB}$$



Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
2403.0	1.059	1.027
2440.0	1.056	1.027
2475.0	1.085	1.027



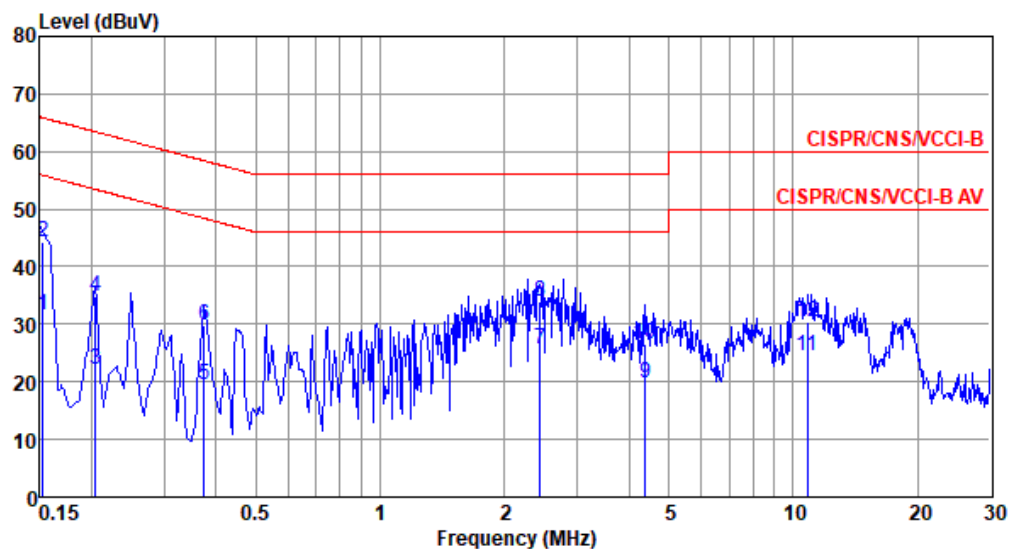


Modulation Mode	GFSK	Test Freq. (MHz)	2440
Power Phase	Line		

Test by : Joe Liao

Temperature: 24°C

Humidity: 59%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.152	31.53	55.87	-24.34	21.77	9.68	0.08	0.00	Average
2	0.152	44.26	65.87	-21.61	34.50	9.68	0.08	0.00	QP
3	0.204	22.19	53.45	-31.26	12.43	9.68	0.08	0.00	Average
4	0.204	34.81	63.45	-28.64	25.05	9.68	0.08	0.00	QP
5	0.375	19.58	48.39	-28.81	9.83	9.67	0.08	0.00	Average
6	0.375	29.75	58.39	-28.64	20.00	9.67	0.08	0.00	QP
7*	2.435	25.76	46.00	-20.24	15.87	9.69	0.20	0.00	Average
8	2.435	33.98	56.00	-22.02	24.09	9.69	0.20	0.00	QP
9	4.384	19.67	46.00	-26.33	9.74	9.70	0.23	0.00	Average
10	4.384	26.57	56.00	-29.43	16.64	9.70	0.23	0.00	QP
11	10.847	24.57	50.00	-25.43	14.36	9.74	0.47	0.00	Average
12	10.847	30.38	60.00	-29.62	20.17	9.74	0.47	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

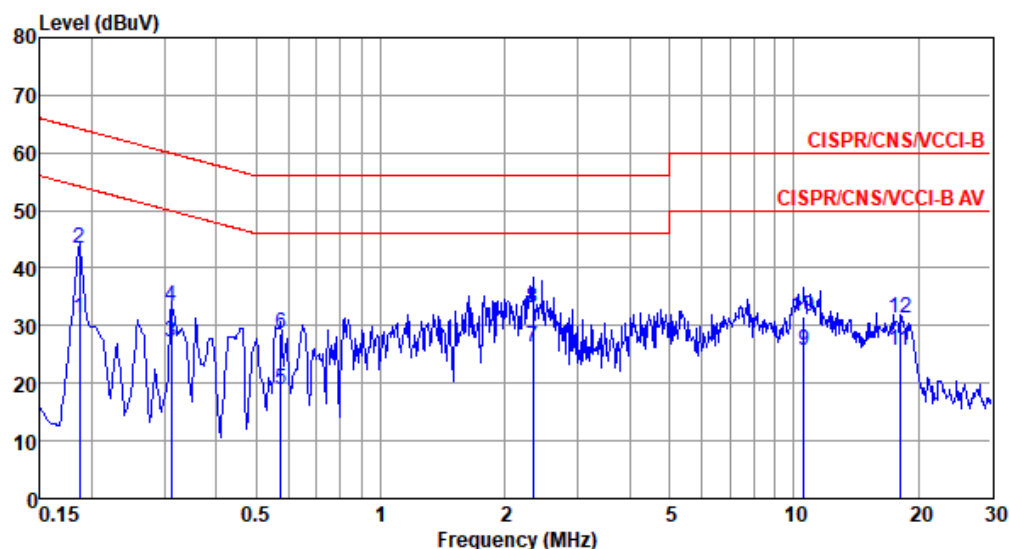


Modulation Mode	GFSK	Test Freq. (MHz)	2440
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 24°C

Humidity: 59%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.186	31.41	54.20	-22.79	21.72	9.61	0.08	0.00	Average
2	0.186	43.44	64.20	-20.76	33.75	9.61	0.08	0.00	QP
3	0.312	27.06	49.93	-22.87	17.37	9.61	0.08	0.00	Average
4	0.312	33.34	59.93	-26.59	23.65	9.61	0.08	0.00	QP
5	0.573	18.77	46.00	-27.23	9.05	9.61	0.11	0.00	Average
6	0.573	28.76	56.00	-27.24	19.04	9.61	0.11	0.00	QP
7*	2.334	26.32	46.00	-19.68	16.50	9.62	0.20	0.00	Average
8	2.334	33.12	56.00	-22.88	23.30	9.62	0.20	0.00	QP
9	10.564	25.67	50.00	-24.33	15.51	9.70	0.46	0.00	Average
10	10.564	31.64	60.00	-28.36	21.48	9.70	0.46	0.00	QP
11	18.039	25.70	50.00	-24.30	15.31	9.77	0.62	0.00	Average
12	18.039	31.22	60.00	-28.78	20.83	9.77	0.62	0.00	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).



Mode	Charging mode with notebook								
Power Phase	Line								
Test by : Joe Liao Temperature: 24°C Humidity: 59%									
<div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div>									
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	dB	loss dB	dB	
1	0.159	20.18	55.52	-35.34	10.42	9.68	0.08	0.00	Average
2	0.159	36.48	65.52	-29.04	26.72	9.68	0.08	0.00	QP
3	0.195	25.37	53.80	-28.43	15.61	9.68	0.08	0.00	Average
4	0.195	36.71	63.80	-27.09	26.95	9.68	0.08	0.00	QP
5	0.466	18.38	46.58	-28.20	8.62	9.67	0.09	0.00	Average
6	0.466	27.68	56.58	-28.90	17.92	9.67	0.09	0.00	QP
7	1.043	17.42	46.00	-28.58	7.58	9.68	0.16	0.00	Average
8	1.043	24.20	56.00	-31.80	14.36	9.68	0.16	0.00	QP
9*	2.358	26.24	46.00	-19.76	16.35	9.69	0.20	0.00	Average
10	2.358	31.07	56.00	-24.93	21.18	9.69	0.20	0.00	QP
11	19.122	20.95	50.00	-29.05	10.58	9.73	0.64	0.00	Average
12	19.122	26.23	60.00	-33.77	15.86	9.73	0.64	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Mode	Charging mode with notebook								
Power Phase	Neutral								
Test by : Joe Liao Temperature: 24°C Humidity: 59%									
<div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div>									
	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark
	MHz	dBuV	dBuV	dB	Level	dB	loss	dB	
1	0.159	23.88	55.52	-31.64	14.19	9.61	0.08	0.00	Average
2	0.159	39.50	65.52	-26.02	29.81	9.61	0.08	0.00	QP
3	0.204	24.46	53.45	-28.99	14.77	9.61	0.08	0.00	Average
4	0.204	35.03	63.45	-28.42	25.34	9.61	0.08	0.00	QP
5	0.466	22.23	46.58	-24.35	12.53	9.61	0.09	0.00	Average
6	0.466	30.28	56.58	-26.30	20.58	9.61	0.09	0.00	QP
7	1.049	15.98	46.00	-30.02	6.21	9.61	0.16	0.00	Average
8	1.049	22.73	56.00	-33.27	12.96	9.61	0.16	0.00	QP
9*	2.358	25.40	46.00	-20.60	15.58	9.62	0.20	0.00	Average
10	2.358	30.61	56.00	-25.39	20.79	9.62	0.20	0.00	QP
11	18.622	19.92	50.00	-30.08	9.51	9.78	0.63	0.00	Average
12	18.622	24.92	60.00	-35.08	14.51	9.78	0.63	0.00	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



Mode	Charging mode with adapter																																																																																																																																																														
Power Phase	Line																																																																																																																																																														
Test by : Joe Liao Temperature: 24°C Humidity: 59%																																																																																																																																																															
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