



TEST REPORT

FCC ID: 2AH3IBM-I02B

Applicant : BIRCH TECHNOLOGY INC.
Address : 7F-13, No 79, Hsin Tai Sth Rd, sec 1, Hsichih Dist, New Taipei City 22101,
Taiwan

Equipment under Test (EUT):

Name	:	Mobile printer
Model	:	BM-i02B, BM-iC2B, BM-i02W, BM-iC2W, BM-C02 BM-i03B, BM-iC3B, BM-i03W, BM-iC3W, BM-iA03
Trademark	:	

Standards: FCC PART 15, SUBPART C : 2015 (Section 15.247)
ANSI C63.4:2014

Report No : T1860726 06
Date of Test : April 09- April 23, 2016
Date of Issue : April 23, 2016

Test Result : PASS

In the configuration tested, the EUT complied with the standards specified above
Authorized Signature



(Mark Zhu)
Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

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1. General Information

1.1. Description of Device (EUT)

EUT	:	Mobile printer
Model No.	:	BM-i02B, BM-iC2B, BM-i02W, BM-iC2W , BM-C02 BM-i03B, BM-iC3B, BM-i03W, BM-iC3W , BM-iA03
Difference	:	Only differ in model name.
Trade mark	:	
Power supply	:	DC 7.4V from battery or DC 9V from adapter
Radio Technology	:	BT 3.0+EDR
Operation frequency	:	2402-2480MHz
Modulation	:	GFSK, $\pi/4$ DQPSK, 8-DPSK
Antenna Type	:	Integrated Antenna, max gain 0dBi.
Adapter	:	ZL-B024W0902000
Applicant	:	BIRCH TECHNOLOGY INC.
Address	:	7F-13, No.79, Hsin Tai Sth Rd, sec 1, Hsichih Dist, New Taipei City 22101, Taiwan
manufacture	:	Zhuhai HONOR Technology Co., Ltd
Address	:	5 Floor, 2nd Building, No.613 Huawei Road, Qianshan Industrial Park, Xiangzhou District, Zhuhai City, Guangdong, China.

1.2. Accessories of device (EUT)

Description : Adapter
Manufacturer : NIL
Model No. : ZL-B024W0902000
Input : AC 100-240V, 50/60Hz, 1.0A Max
Output : DC 9V, 2000mA

1.3. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd
Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road,
Bao'an, Shenzhen, China

August 11, 2014 File on Federal Communication Commission
Registration Number: 203110

July 18, 2014 Certificated by IC
Registration Number: 12135A

2. Summary of test

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.4 :2014& ANSI C63.10 :2013	PASS
Bandwidth	FCC Part 15: 15.215 ANSI C63.4 :2014& ANSI C63.10 :2013	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.4 :2014 & ANSI C63.10 :2013	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014& ANSI C63.10 :2013	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014 & ANSI C63.10 :2013	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4 :2014& ANSI C63.10 :2013	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.4 :2014& ANSI C63.10 :2013	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4 :2014& ANSI C63.10 :2013	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: Test with the test software		

2.2. Assistant equipment used for test

Description	:	Notebook
Manufacturer	:	ACER
Model No.	:	ZQT
Remark: FCC DOC approved.		

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was be set into BT test mode by software before test.



2, For Power Line Conducted Emissions Test: EUT was connected to notebook by 1.5m USB line



2.4. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
π /4 DQPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
8- DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.5. Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Cal. Due day	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2017.01.19	1 Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2017.01.19	1 Year
Receiver	R&S	ESCI	101165	2017.01.19	1 Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2017.01.21	2 Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2017.01.21	2 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2017.01.21	2 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2017.01.19	1 Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2017.01.19	1 Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2017.01.19	1 Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2017.01.19	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2017.01.19	1 Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2017.01.19	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	2017.01.19	1 Year
Power sensor	Anritsu	ML2491A	32516	2017.01.19	1 Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2017.01.19	1 Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2017.01.19	1 Year

3. Maximum Peak Output power

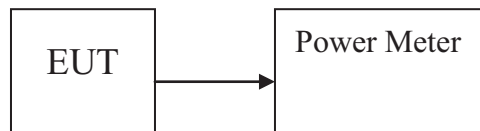
3.1. Limit

Please refer RSS-247 & section15.247.

3.2. Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

EUT: Mobile printer		M/N: BM-i02B			
Test date: 2016-04-21		Test site: RF site		Tested by: Peter	
Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Margin (dB)
GFSK	2402	3.653	2.319	30	26.347
	2441	3.582	2.281	30	26.418
	2480	3.942	2.479	30	26.058
π /4 DQPSK,	2402	2.631	1.833	21	18.369
	2441	2.347	1.717	21	18.653
	2480	3.253	2.115	21	17.747
8- DPSK	2402	2.816	1.912	21	18.184
	2441	2.725	1.873	21	18.275
	2480	3.642	2.313	21	17.358
Conclusion: PASS					

4. Bandwidth

4.1. Limit

Please refer RSS-247 & section15.247.

4.2. Test Procedure

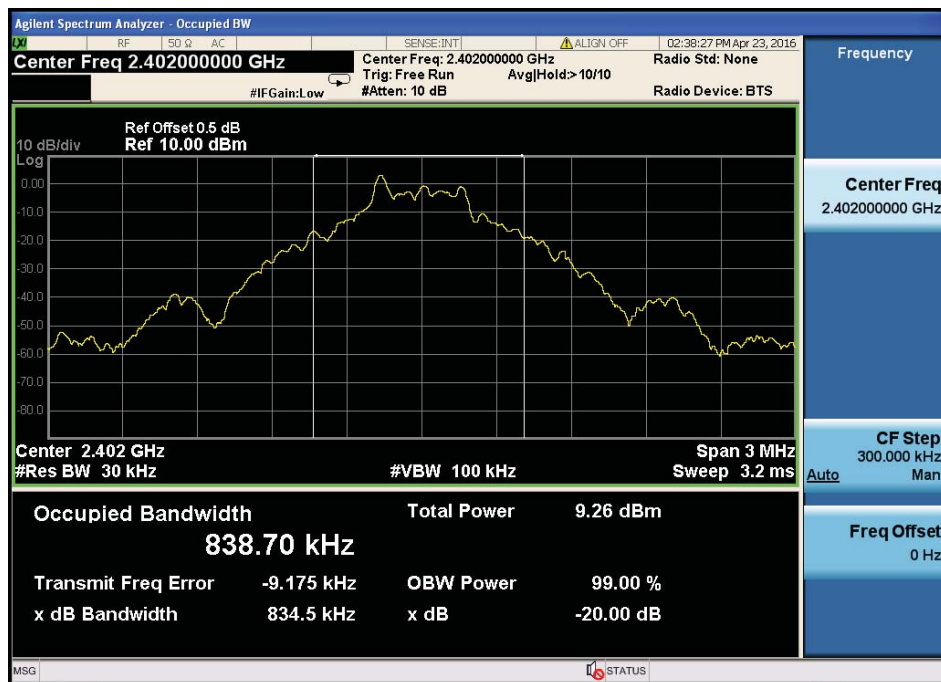
The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW, PK detector. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.3. Test Result

EUT: Mobile printer		M/N: BM-i02B		
Test date: 2016-04-21		Test site: RF site		Tested by: Peter
Mode	Freq (MHz)	20dB Bandwidth (KHz)	Limit	Conclusion
GFSK	2402	834.5	-	PASS
	2441	833.6	-	PASS
	2480	833.1	-	PASS
π /4 DQPSK	2402	1118	-	PASS
	2441	1115	-	PASS
	2480	1118	-	PASS
8- DPSK	2402	1166	-	PASS
	2441	1164	-	PASS
	2480	1165	-	PASS

Original Test data

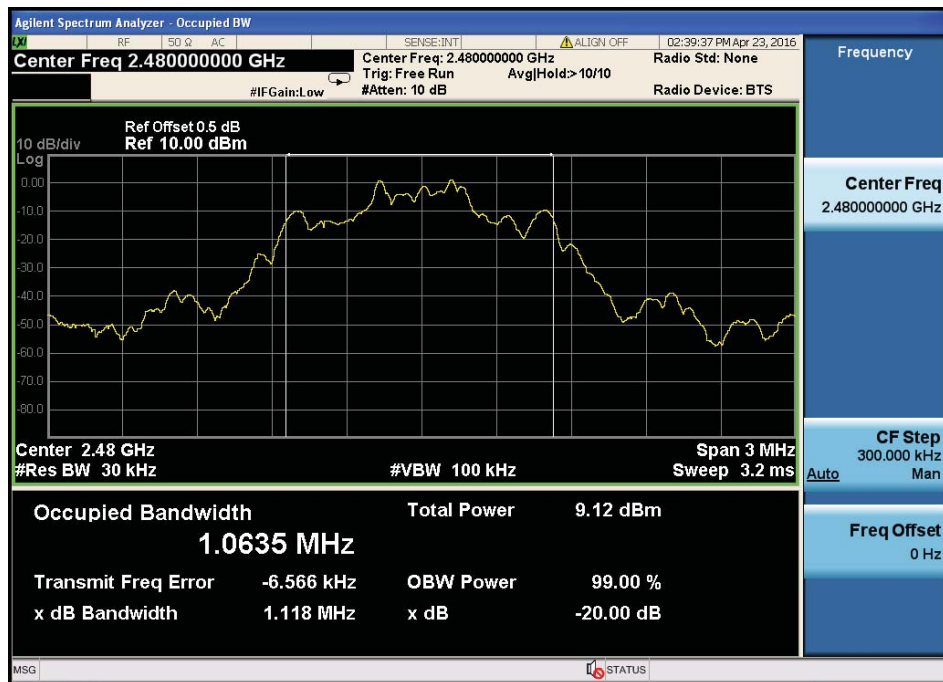
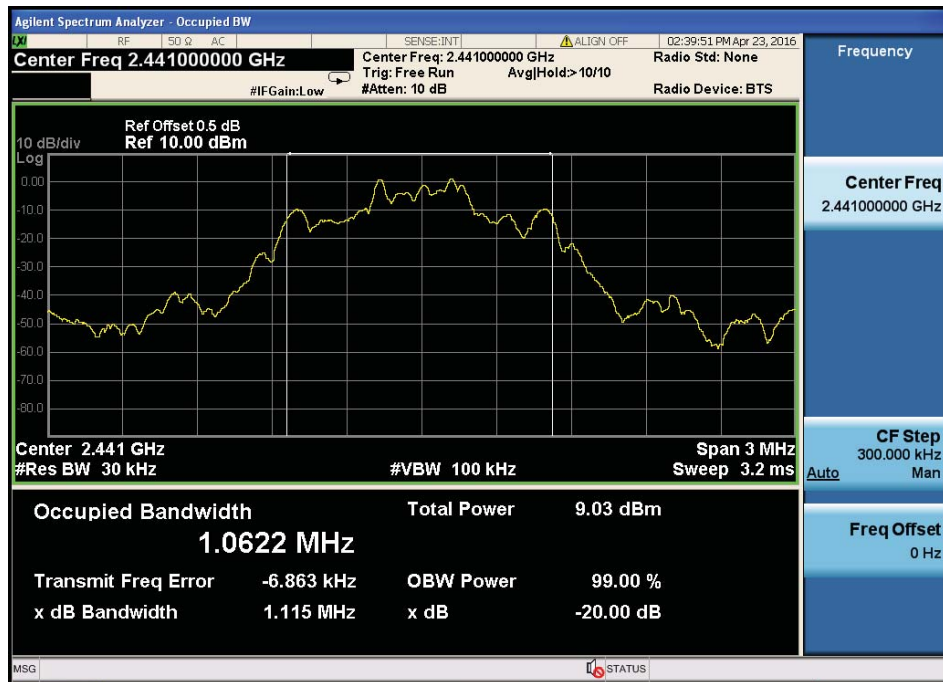
GFSK:



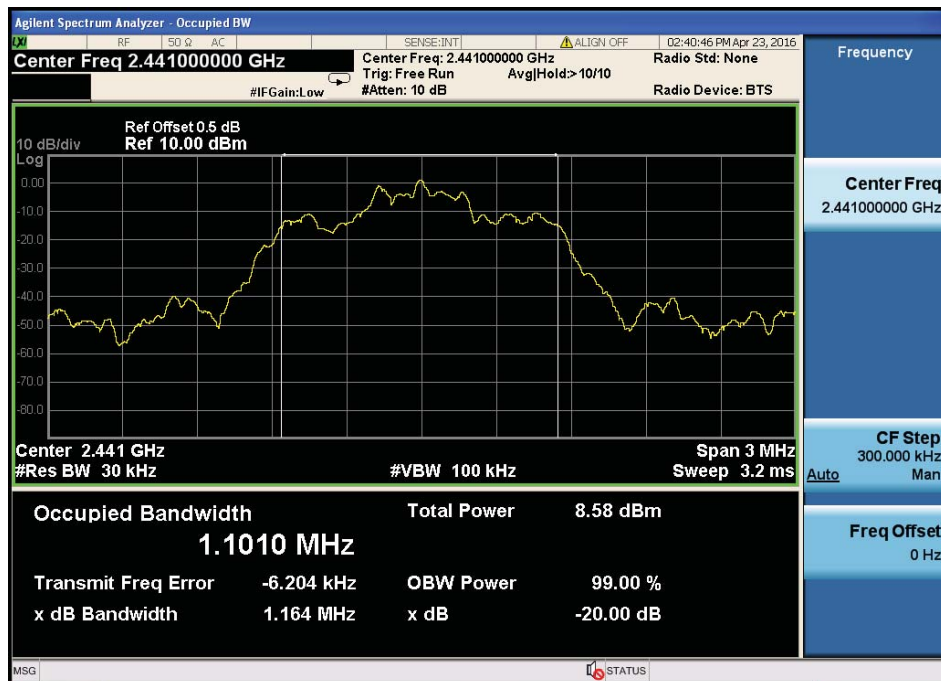
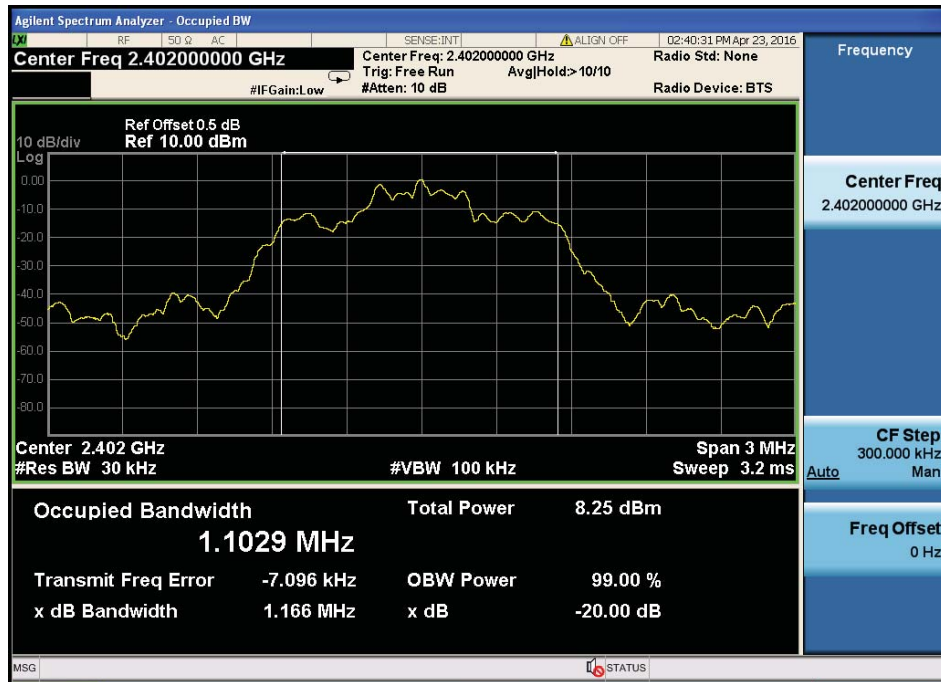


$\pi/4$ DQPSK





8- DPSK





5. Carrier Frequency Separation

5.1. Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW

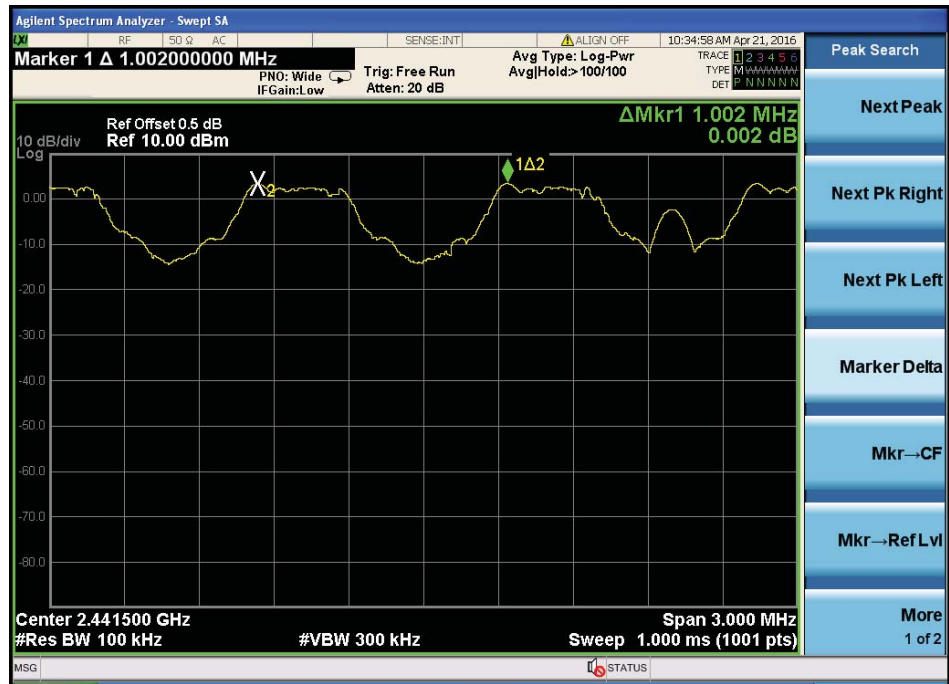
5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

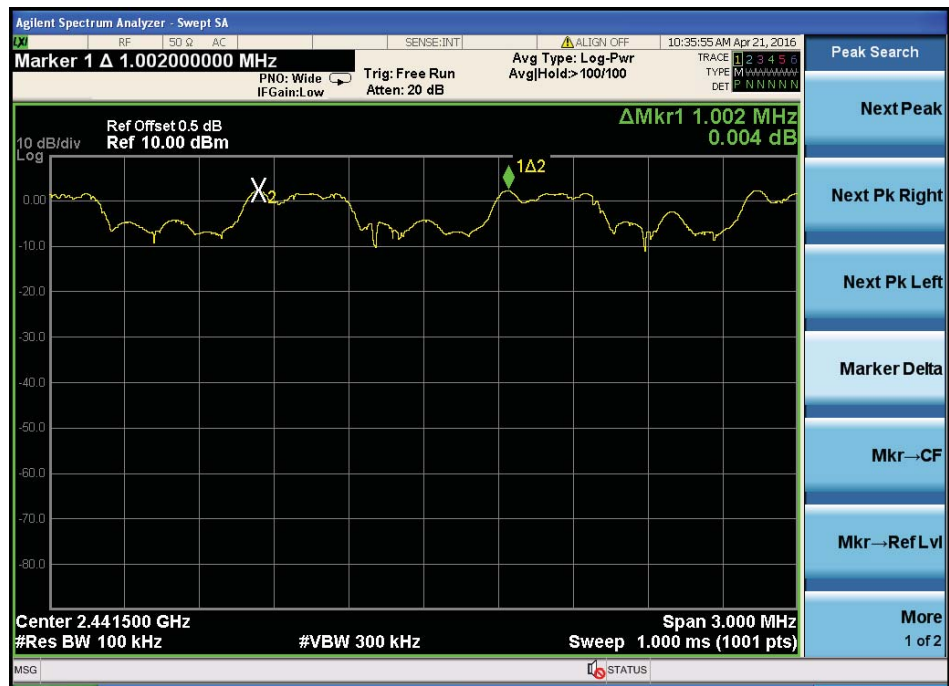
5.3. Test Result

EUT: Mobile printer M/N: BM-i02B				
Test date: 2016-04-21		Test site: RF site		Tested by: Peter
Mode/Channel	Channel separation (KHz)	20dB Bandwidth (KHz)	Limit (KHz) 2/3 20dB bandwidth	Conclusion
GFSK	1002	833.600	555.733	PASS
$\pi/4$ DQPSK	1002	1115.000	743.333	PASS
8- DPSK	1002	1164.000	776.000	PASS

Original test data for channel separation
GFSK



$\pi/4$ DQPSK



8- DPSK



6. Number Of Hopping Channel

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

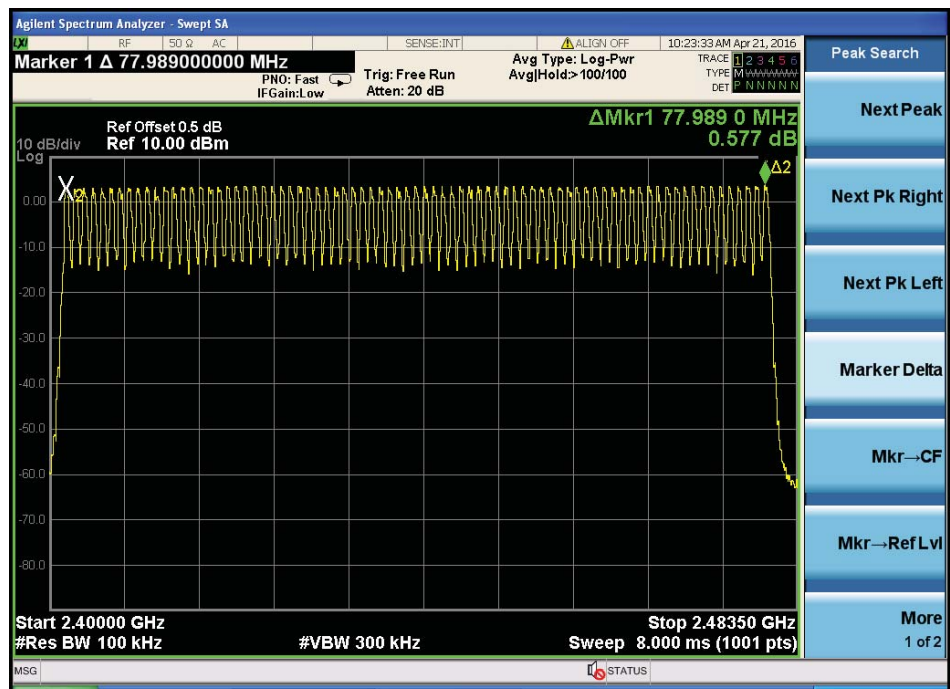
6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW.

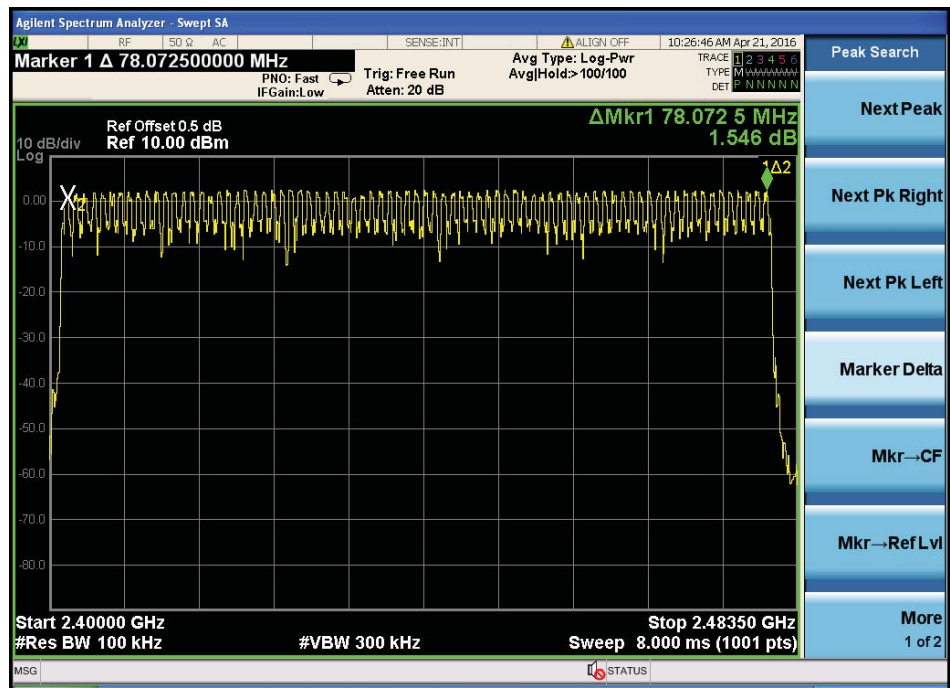
6.3. Test Result

EUT: Mobile printer M/N: BM-i02B			
Test date: 2016-04-21		Test site: RF site	Tested by: Peter
Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
$\pi/4$ DQPSK	79	>15	PASS
8- DPSK	79	>15	PASS

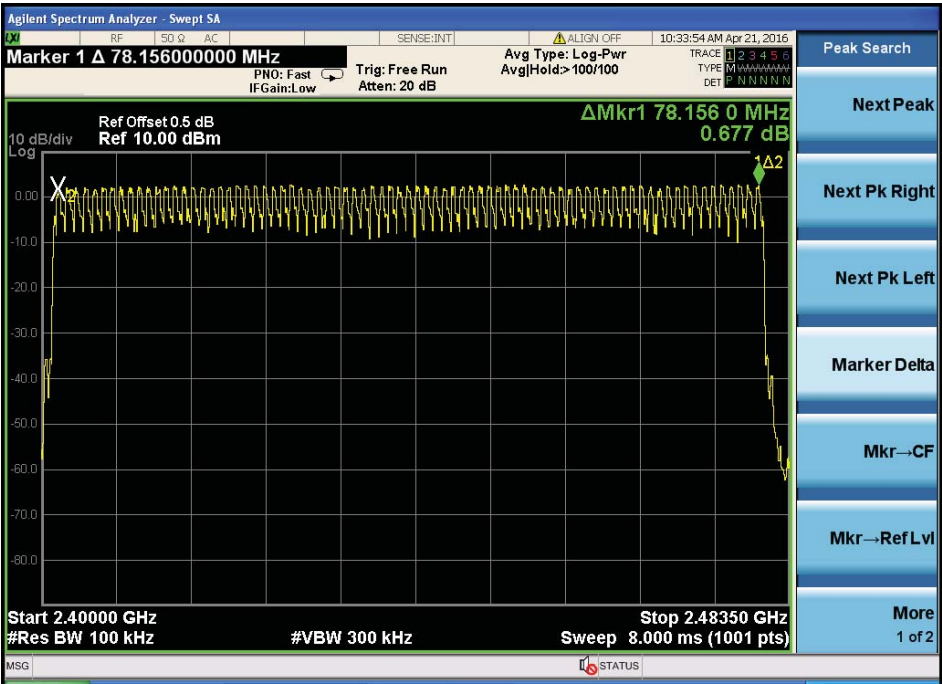
Original test data for hopping channel number
GFSK



$\pi/4$ DQPSK



8- DPSK



7. Dwell Time

7.1. Test limit

Please refer RSS-247 & section15.247.

7.2. Test Procedure

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set center frequency of spectrum analyzer = operating frequency.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.

7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Results

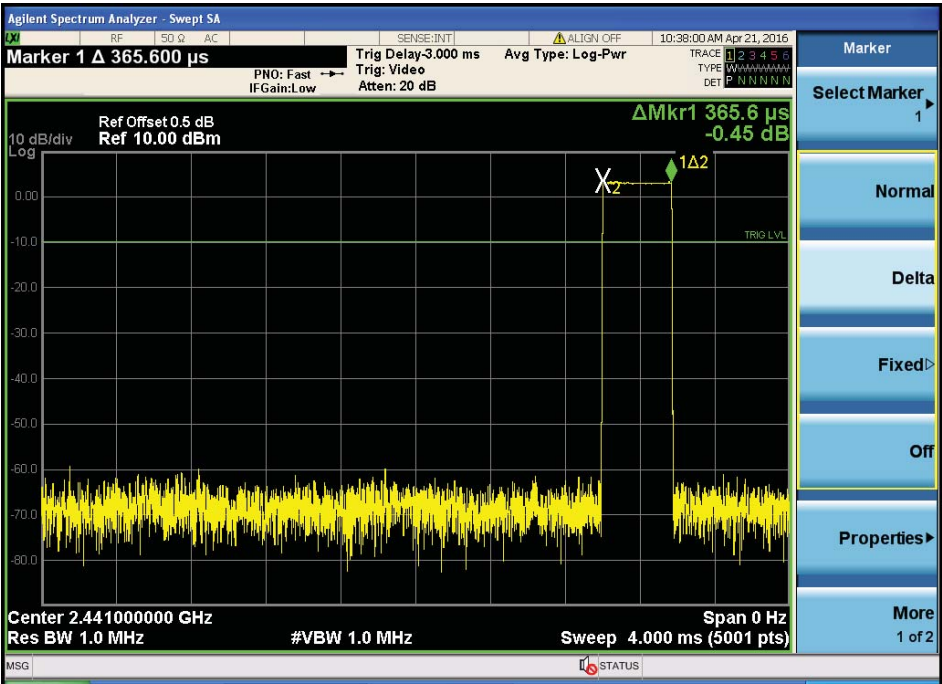
PASS.

Detailed information please see the following page.

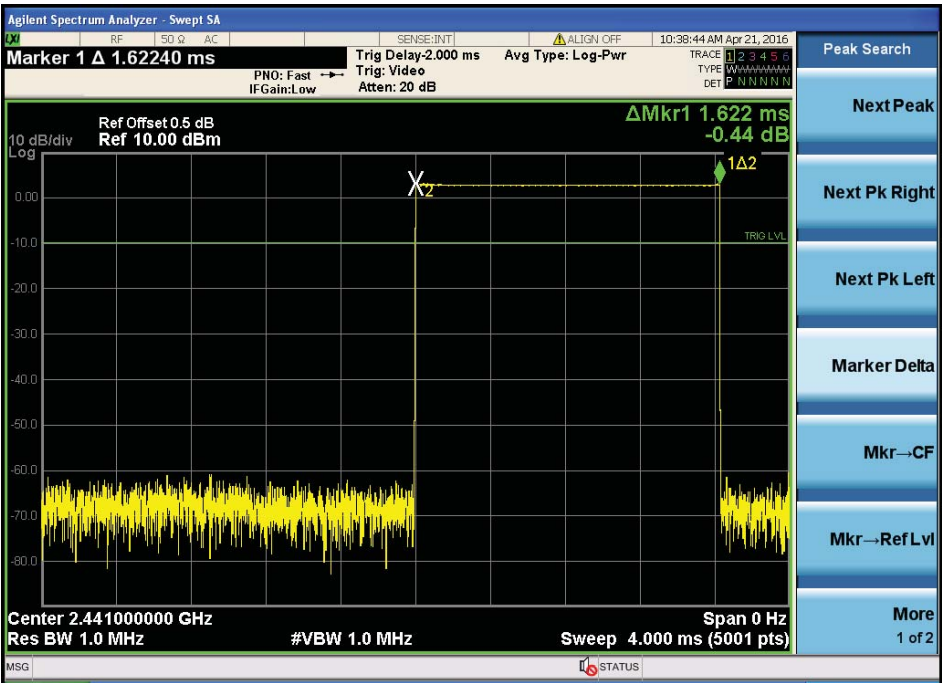
EUT: Mobile printer M/N: BM-i02B						
Test date: 2016-04-21		Test site: RF site		Tested by: Peter		
Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Conclusion
GFSK	DH1	2441	0.3656	0.234	<0.4	PASS
	DH3	2441	1.622	0.346	<0.4	PASS
	DH5	2441	2.869	0.367	<0.4	PASS
π /4 DQPSK	DH1	2441	0.3704	0.237	<0.4	PASS
	DH3	2441	1.62	0.346	<0.4	PASS
	DH5	2441	2.872	0.368	<0.4	PASS
8- DPSK	DH1	2441	0.3728	0.239	<0.4	PASS
	DH3	2441	1.62	0.346	<0.4	PASS
	DH5	2441	2.866	0.367	<0.4	PASS
Note: 1 A period time = 0.4 (s) * 79 = 31.6(s) 2 DH1 time slot = Pulse Duration * (1600/(1*79)) * A period time DH3 time slot = Pulse Duration * (1600/(3*79)) * A period time DH5 time slot = Pulse Duration * (1600/(5*79)) * A period time						

GFSK

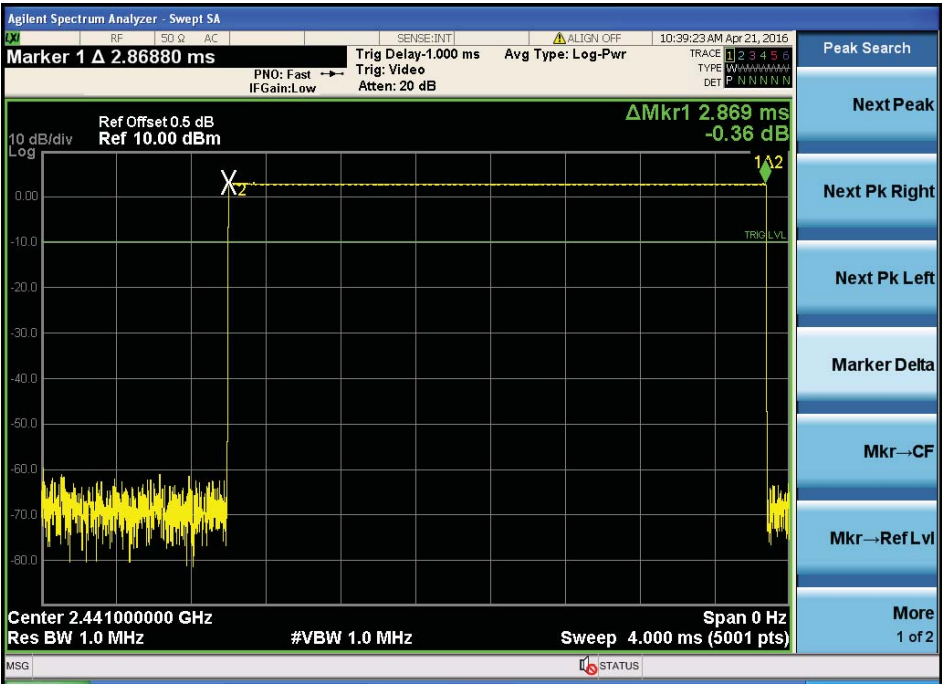
DH1:



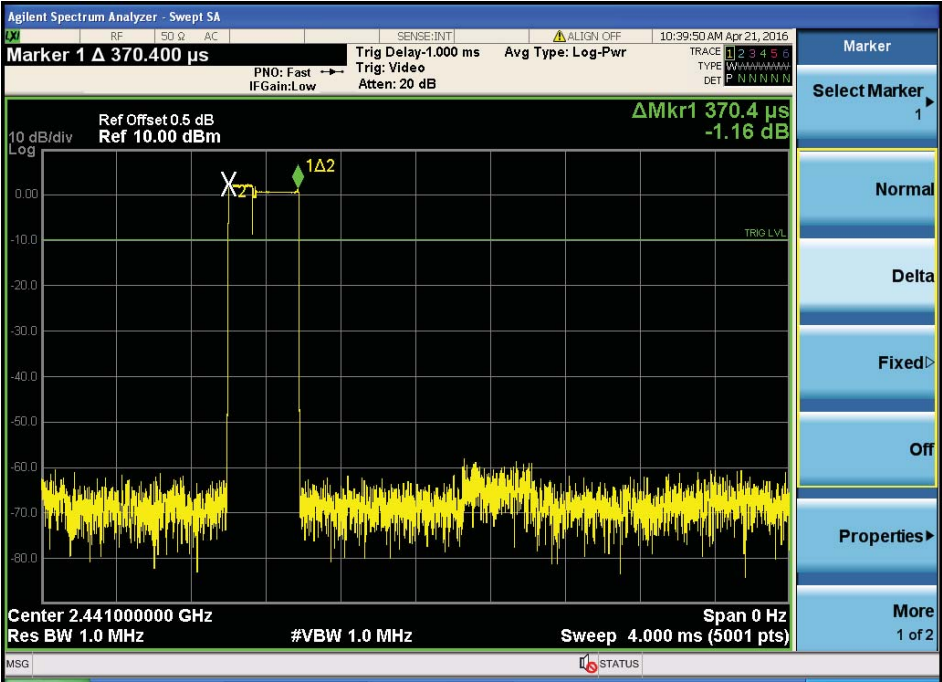
DH3:



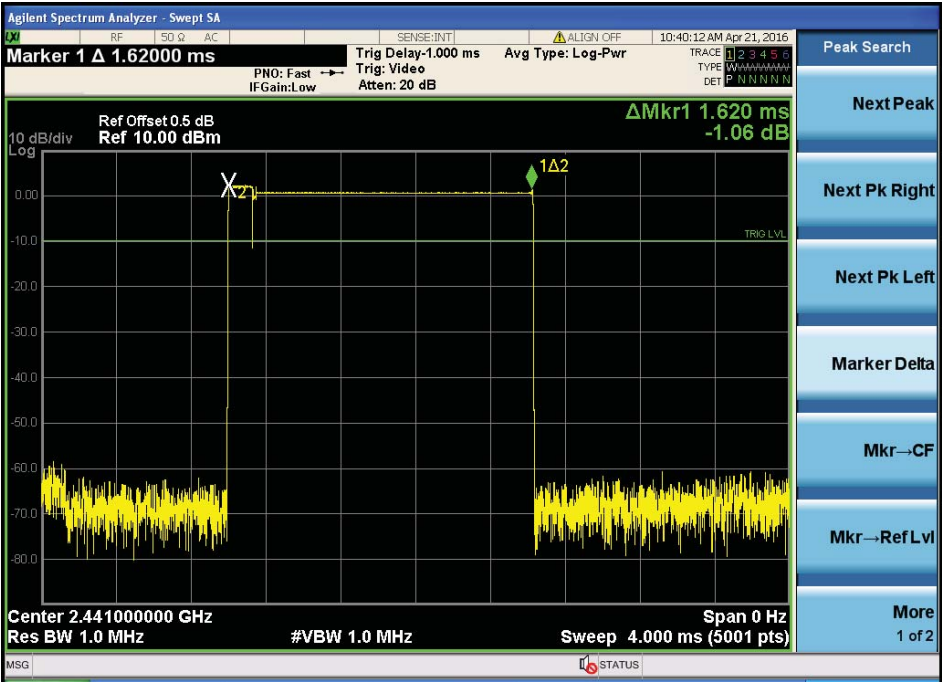
DH5



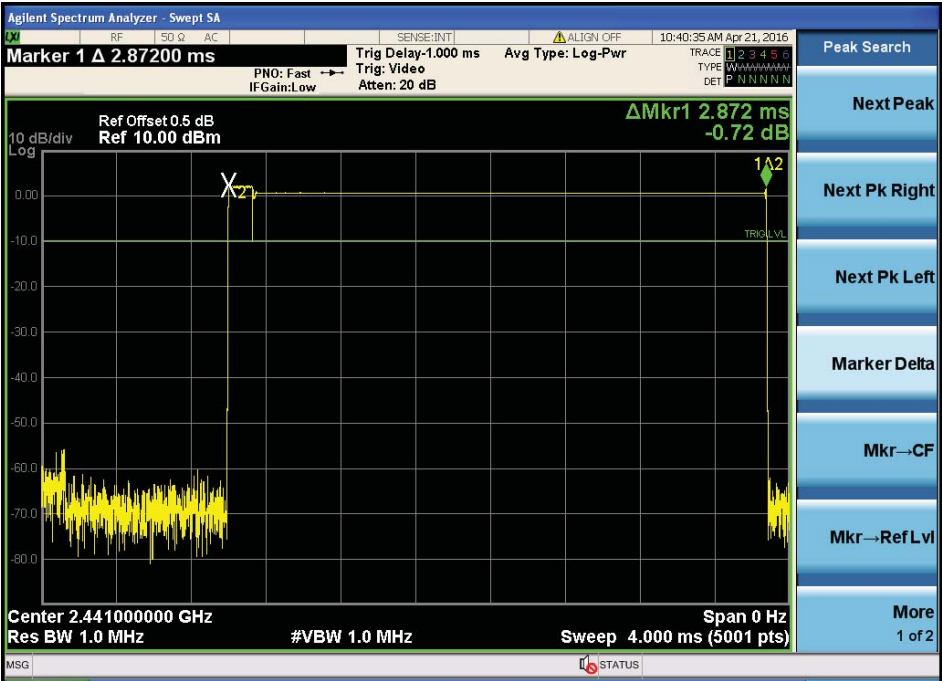
$\pi/4$ DQPSK
DH1



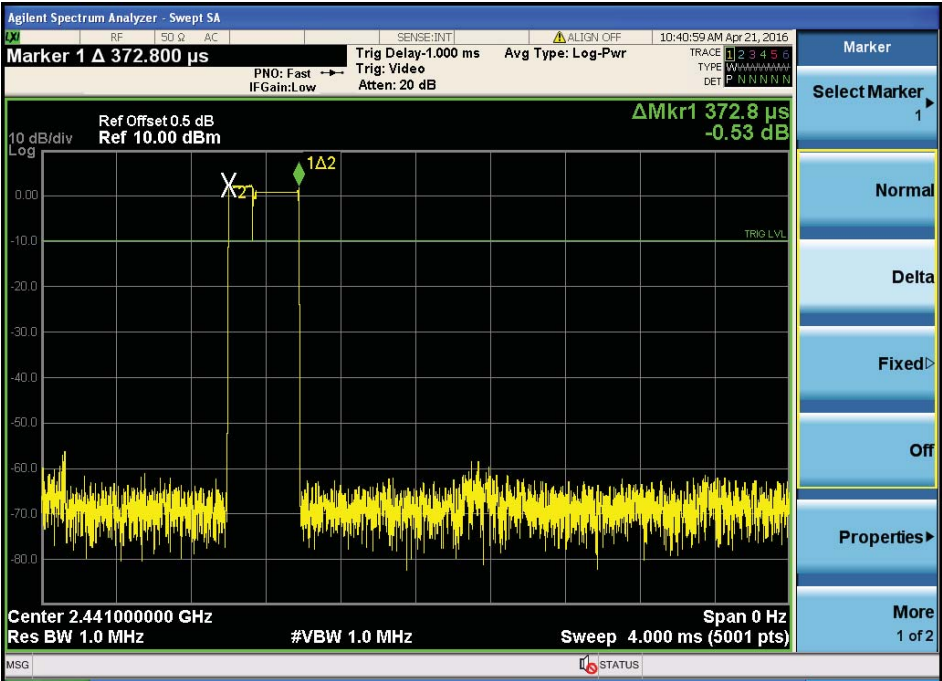
DH3



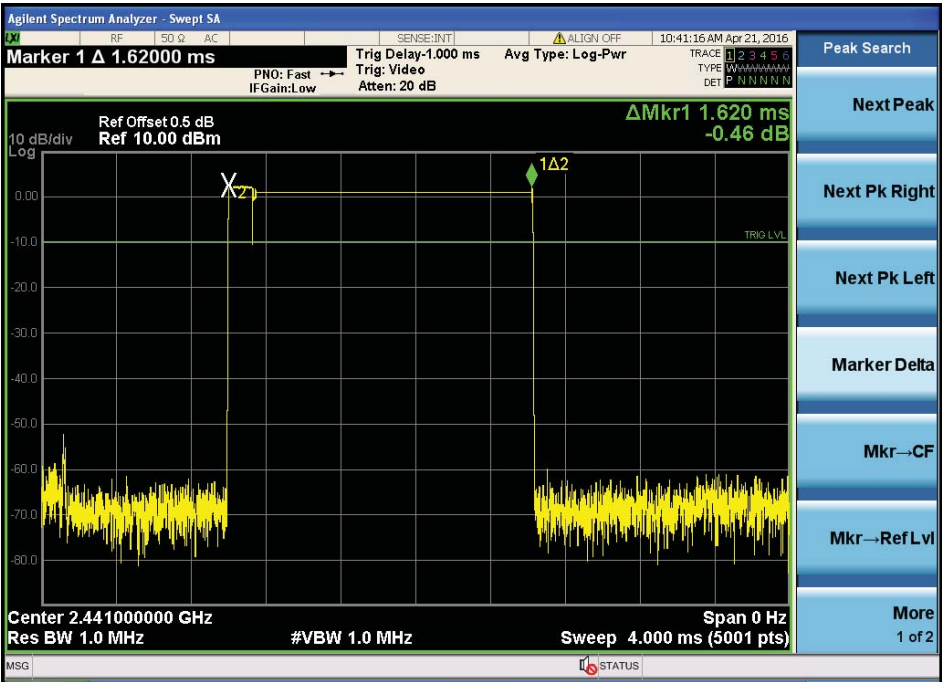
DH5



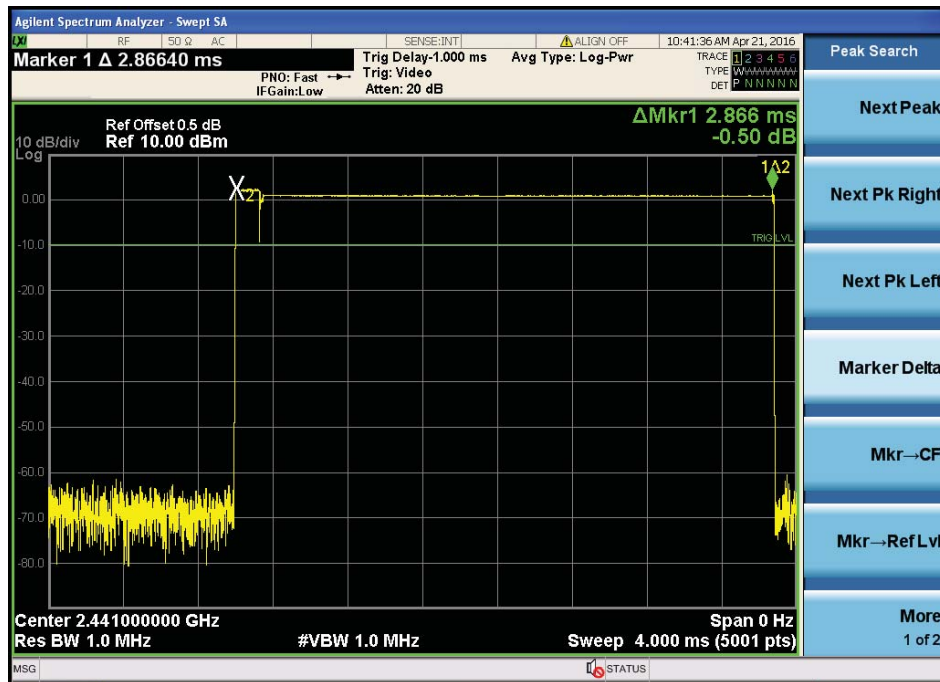
8- DPSK:
DH1



DH3



DH5



8. Radiated emissions

8.1. Limit

All the emissions appearing within RSS-GEN restricted frequency bands shall not exceed the limits shown in RSS-GEN, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with RSS-GEN limits.

RSS-GEN Restricted frequency band

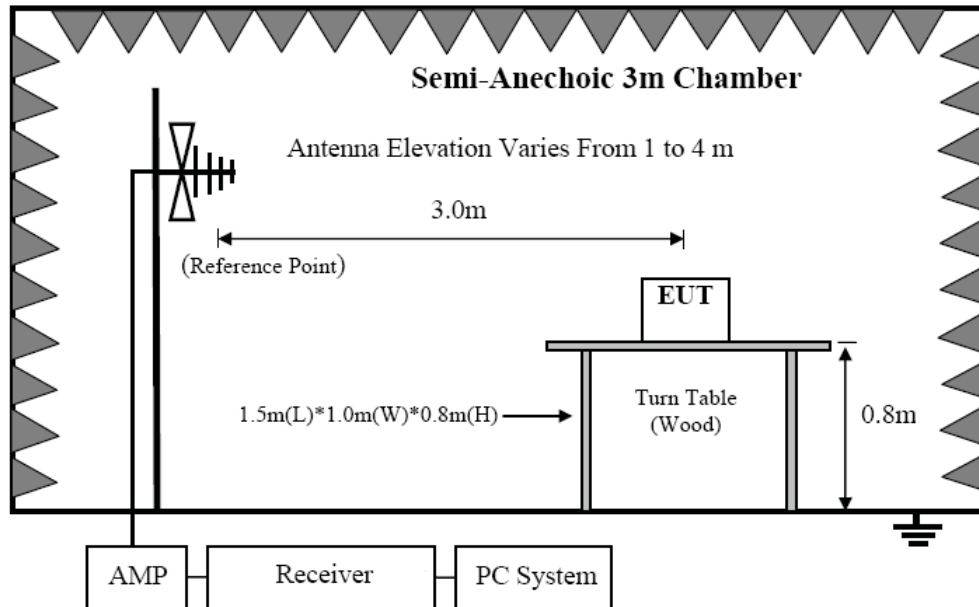
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

RSS-GEN Limit

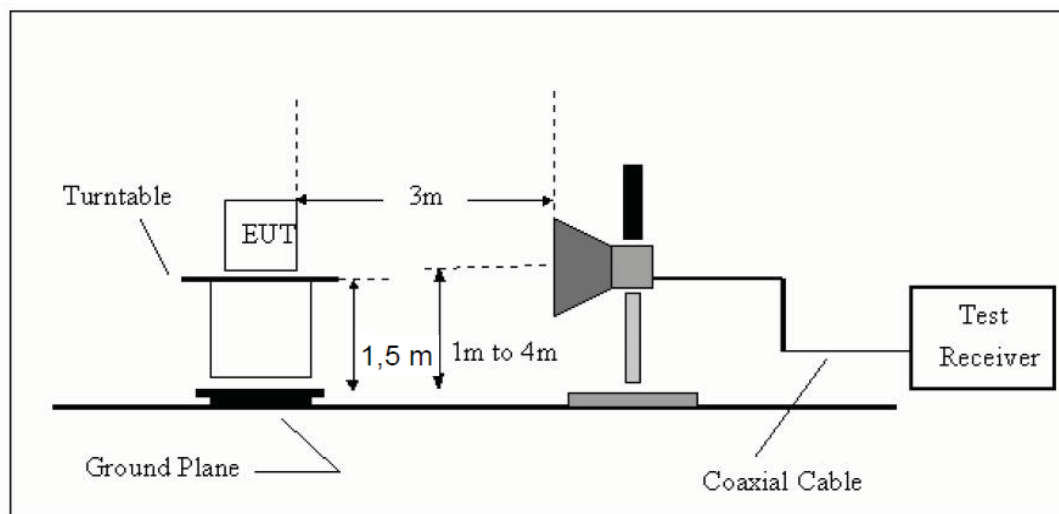
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

8.2. Block Diagram of Test setup

8.2.1 In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2 In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1GHz testing, and 150cm for above 1GHz testing.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2014 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

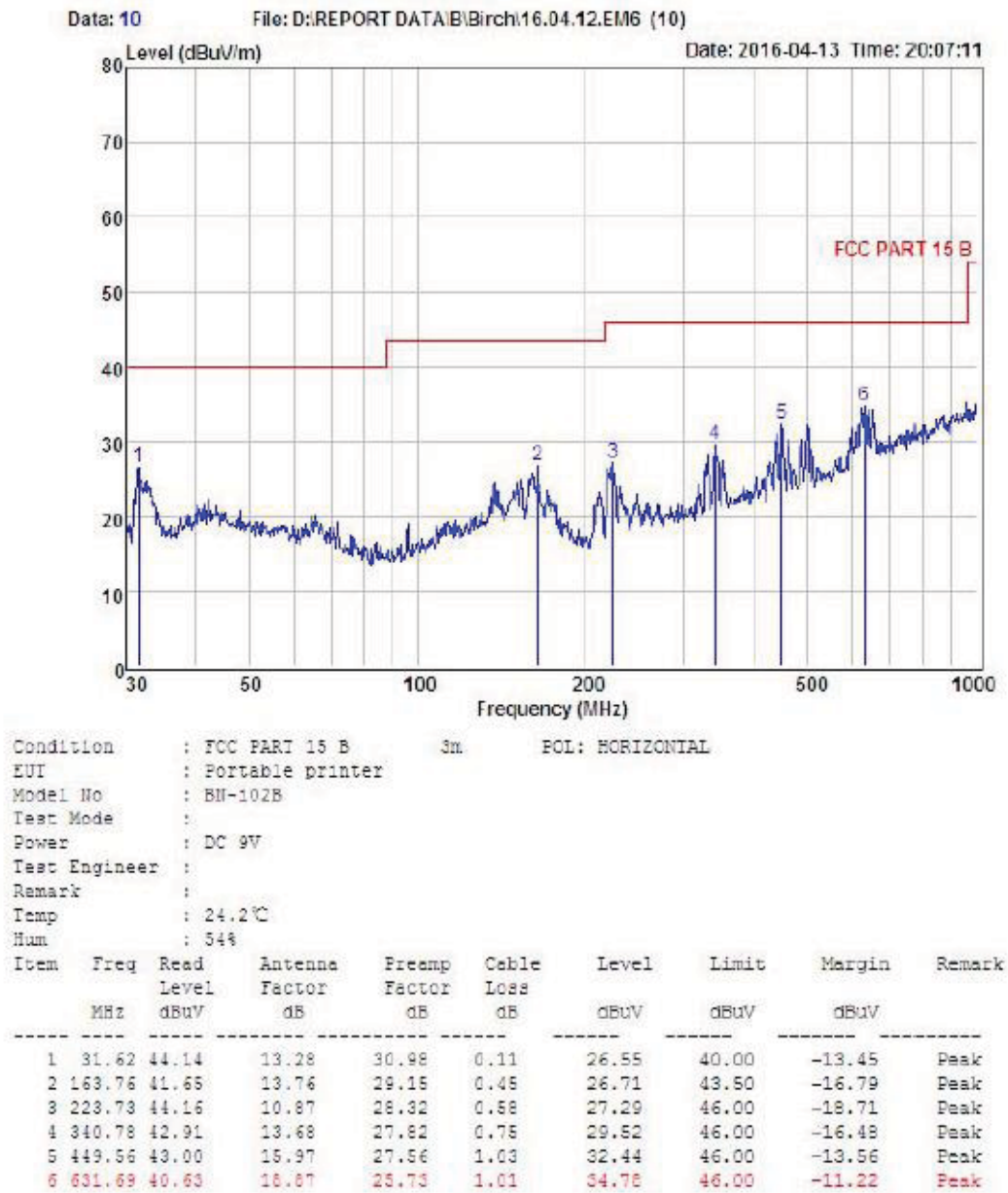
8.4. Test Result

We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

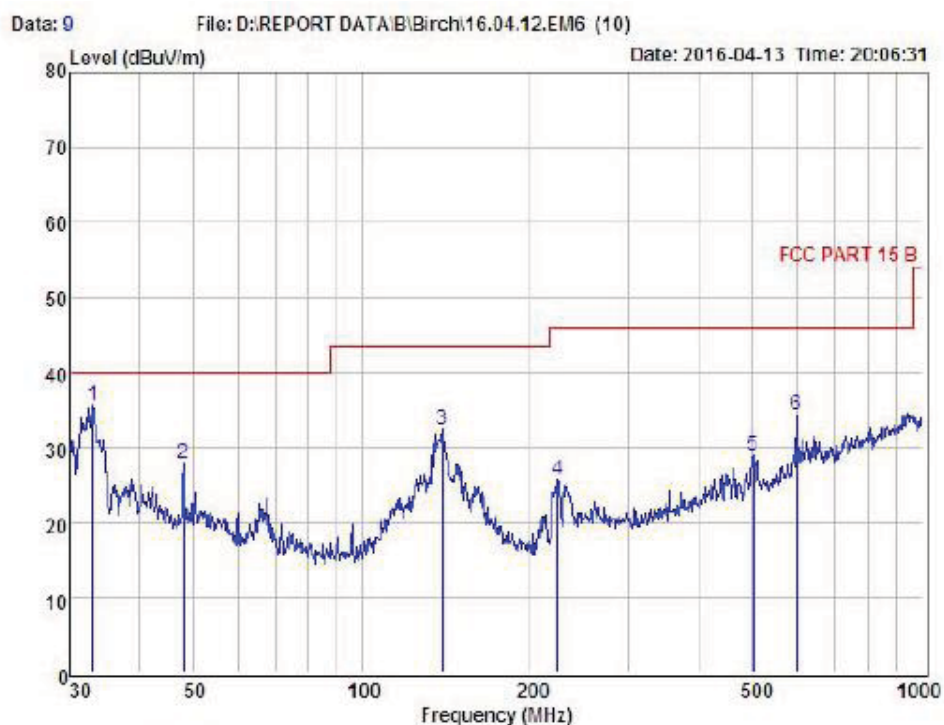
From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz: Conclusion: PASS



Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



Condition : FCC PART 15 B 3m POL: VERTICAL
 EUT : Portable printer
 Model No : BN-102B
 Test Mode :
 Power : DC 9V
 Test Engineer :
 Remark :
 Temp : 24.2°C
 Hum : 54%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamplifier Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	32.98	52.97	13.33	30.90	0.11	38.51	40.00	-4.49	Peak
2	47.99	44.41	13.59	30.25	0.09	27.84	40.00	-12.16	Peak
3	139.36	47.93	13.37	29.32	0.32	32.30	43.50	-11.20	Peak
4	223.73	42.56	10.87	28.32	0.58	25.69	46.00	-20.31	Peak
5	501.18	38.90	16.54	27.18	0.76	29.02	46.00	-16.98	Peak
6	599.32	40.87	18.32	25.90	1.00	34.29	46.00	-11.71	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

1GHz—25GHz Radiated emissison Test result									
EUT: Mobile printer			M/N: BM-i02B						
Power: DC 9V from adapter									
Test date: 2016-04-21			Test site: 3m Chamber			Tested by: Peter			
Test mode: GFSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	42.53	33.95	10.18	34.26	52.4	74	21.6	PK
2	4804	31.89	33.95	10.18	34.26	41.76	54	12.24	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	42.55	33.95	10.18	34.26	52.42	74	21.58	PK
2	4804	31.33	33.95	10.18	34.26	41.2	54	12.8	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Mobile printer			M/N: BM-i02B						
Power: DC 9V from adapter									
Test date: 2016-04-21			Test site: 3m Chamber			Tested by: Peter			
Test mode: GFSK Tx CH40 2441MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4882	42.95	33.93	10.2	34.29	52.79	74	21.21	PK
2	4882	32.15	33.93	10.2	34.29	41.99	54	12.01	AV
3	7323	/							
4	9764	/							
5	12205	/							
Antenna Polarity: Horizontal									
1	4882	42.78	33.93	10.2	34.29	52.62	74	21.38	PK
2	4882	31.56	33.93	10.2	34.29	41.4	54	12.6	AV
3	7323	/							
4	9764	/							
5	12205	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emission Test result									
EUT: Mobile printer		M/N: BM-i02B							
Power: DC 9V from adapter									
Test date: 2016-04-21 Test site: 3m Chamber Tested by: Peter									
Test mode: GFSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	43.23	33.98	10.22	34.25	53.18	74	20.82	PK
2	4960	31.56	33.98	10.22	34.25	41.51	54	12.49	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	43.17	33.98	10.22	34.25	53.12	74	20.88	PK
2	4960	32.04	33.98	10.22	34.25	41.99	54	12.01	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emission Test result									
EUT: Mobile printer			M/N: BM-i02B						
Power: DC 9V from adapter									
Test date: 2016-04-21			Test site: 3m Chamber			Tested by: Peter			
Test mode: π /4 DQPSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	42.84	33.95	10.18	34.26	52.71	74	21.29	PK
2	4804	35.94	33.95	10.18	34.26	45.81	54	8.19	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	42.86	33.95	10.18	34.26	52.73	74	21.27	PK
2	4804	32.61	33.95	10.18	34.26	42.48	54	11.52	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result									
EUT: Mobile printer					M/N: BM-i02B				
Power: DC 9V from adapter									
Test date: 2016-04-21			Test site: 3m Chamber			Tested by: Peter			
Test mode: π /4 DQPSK Tx CH40 2441MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Remark
1	4882	42.96	33.93	10.2	34.29	52.8	74	21.2	PK
2	4882	32.54	33.93	10.2	34.29	42.38	54	11.62	AV
3	7323	/							
4	9764	/							
5	12205	/							
Antenna Polarity: Horizontal									
1	4882	42.96	33.93	10.2	34.29	52.8	74	21.2	PK
2	4882	32.33	33.93	10.2	34.29	42.17	54	11.83	AV
3	7323	/							
4	9764	/							
5	12205	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emission Test result									
EUT: Mobile printer			M/N: BM-i02B						
Power: DC 9V from adapter									
Test date: 2016-04-21			Test site: 3m Chamber			Tested by: Peter			
Test mode: π /4 DQPSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	42.86	33.98	10.22	34.25	52.81	74	21.19	PK
2	4960	32.71	33.98	10.22	34.25	42.66	54	11.34	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	43.24	33.98	10.22	34.25	53.19	74	20.81	PK
2	4960	32.81	33.98	10.22	34.25	42.76	54	11.24	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									