# **FCC TEST REPORT**

### according to

### FCC Rules and Regulations Part 15 Subpart C

Applicant : Pegatron Corporation

Address : 5F., No.76, Ligong St., Beitou District, Taipei City 112, Taiwan

Manufacturer Maintek Computer(Suzhou) Co., Ltd

Address No.233 JinFeng Road., SuZhou City, JiangSu Province, China

Equipment : IP Set-Top

Model No. Cisco CX041AE1; Cisco ITV8100; Cisco ITV81000;

CX041AE1; ITV8100; ITV81000

FCC ID : VUIITV8100

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of Cerpass Technology (Suzhou) Co.,Ltd. the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Rules and Regulations Part 15. The test report has been issued separately.
- The test report must not be used by the clients to claim product certification approval by NVLAP or any agency of the Government.

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888 Fax: 86-512-6917-5666
 Page No. : 1 of 47

Page No. : 1 of 47 FCC ID : VUIITV8100



### Contents

1.	Repo	ort of Measurements and Examinations	6
	1.1	List of Measurements and Examinations	6
2.	Test	Configuration of Equipment under Test	7
	2.1	Feature of Equipment under Test	7
	2.2	Carrier Frequency of Channels	7
	2.3	Test Mode & Test Software	8
	2.4	Description of Test System	8
	2.5	General Information of Test	9
	2.6	Measurement Uncertainty	9
3.	Ante	nna Requirements	.10
	3.1	Standard Applicable	.10
	3.2	Antenna Construction and Directional Gain	.10
4.	Test	of Conducted Emission	. 11
	4.1	Test Limit	. 11
	4.2	Test Procedures	. 11
	4.3	Typical Test Setup	.12
	4.4	Measurement equipment	.12
	4.5	Test Result and Data	.13
5.	Test	of Radiated Emission	. 15
	5.1	Test Limit	. 15
	5.2	Test Procedures	. 15
	5.3	Typical Test Setup	. 16
	5.4	Measurement equipment	. 17
	5.5	Test Result and Data	
	5.6	Restrict band emission Measurement Data	. 25
6.	20dE	Bandwidth Measurement Data	. 26
	6.1	Test Limit	
	6.2	Test Procedures	. 26
	6.3	Test Setup Layout	. 26
	6.4	Measurement equipment	.26
	6.5	Test Result and Data	.26
7.	Freq	uencies Separation	
	7.1	Test Limit	.30
	7.2	Test Procedures	.30
	7.3	Test Setup Layout	
	7.4	Measurement equipment	.30
	7.5	Test Result and Data	.30
8.	Dwe	Il Time on each channel	. 32
	8.1	Test Limit	.32
	8.2	Test Procedures	.32
	8.3	Test Setup Layout	
	8.4	Measurement equipment	.32
	8.5	Test Result and Data	.33



9.	Num	Number of Hopping Channels		
	9.1	Test Limit	38	
	9.2	Test Procedures	38	
	9.3	Test Setup Layout	38	
	9.4	Measurement equipment	38	
	9.5	Test Result and Data	38	
10.	Maxi	mum Peak Output Power	40	
	10.1	Test Limit	40	
	10.2	Test Procedures	40	
	10.3	Test Setup Layout	40	
	10.4	Measurement equipment	40	
	10.5	Test Result and Data		
11.	Band	l Edges Measurement	41	
	11.1	Test Limit		
	11.2	Test Procedure	41	
	11.3	Test Setup Layout	41	
	11.4	List of Measuring Equipment Used	41	
	11.5	Test Result and Data		
12.	Rest	ricted Bands of Operation		
		Labeling Requirement		

Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Report No.: SEFB1412077

Page No. : 3 of 47 FCC ID : VUIITV8100

### History of this test report

#### ■ ORIGINAL.

 $\hfill\square$  Additional attachment as following record:

Attachment No.	Issue Date	Description

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date
 : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No.
 : 4 of 47

Page No. : 4 of 47
FCC ID : VUIITV8100

### CERTIFICATE OF COMPLIANCE

### according to

### FCC Rules and Regulations Part 15 Subpart C

**Applicant** : Pegatron Corporation

Address : 5F., No.76, Ligong St., Beitou District, Taipei City 112, Taiwan

Manufacturer Maintek Computer(Suzhou) Co., Ltd

Address No.233 JinFeng Road., SuZhou City, JiangSu Province, China

: IP Set-Top Equipment

Cisco CX041AE1; Cisco ITV8100; Cisco ITV81000; Model No.

CX041AE1; ITV8100; ITV81000

FCC ID : VUIITV8100

#### I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 The equipment was passed the test performed according to FCC Rules and Regulations Part 15 Subpart C (2010).

The test was carried out on Dec 25, 2014 at *Cerpass Technology (Suzhou)* 

Co.,Ltd

Signature

Miro Chueh/ Technical director

Report No.: SEFB1412077

: 5 of 47



## 1. Report of Measurements and Examinations

### 1.1 List of Measurements and Examinations

FCC Rule	. Description of Test	Result
§ 15.203	. Antenna Requirement	Pass
§ 15.207(a)	. Conducted Emission	Pass
§ 15.209(a)	. Radiated Emission	Pass
§ 15.247(a)(1)	. Channel Carrier Frequencies Separation	Pass
§ 15.247(a)(1)	. 20dB Bandwidth Measurement	Pass
§ 15.247(a)(1)	. Dwell Time	Pass
§ 15.247(b)	. Number of Hopping Channels	Pass
§ 15.247(b)	. Peak Output Power Measurement Data	Pass
§ 15.247(d)	. Band Edges Measurement Data	Pass

Cerpass Technology (Suzhou) Co., Ltd Tel: 86-512-6917-5888 Fax: 86-512-6917-5666 Issued Date : Jan 21, 2015 Page No. : 6 of 47 FCC ID : VUIITV8100



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

Frequency	2.402GHz~2.480GHz
Number of Channel	79 channel
Modulation type	GFSK, π /4 PSK,8DPSK
Bluetooth Version	Bluetooth 2.1+EDR
Antenna type	PCB Antenna 4.55dBi
Operating Temperature	-20℃~55℃

### 2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Cerpass Technology (Suzhou) Co., Ltd Issued Date : Jan 21, 2015 Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Page No. : 7 of 47 FCC ID : VUIITV8100

#### 2.3 Test Mode & Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4
- b. The complete test system included EUT for RF test.
- c. The EUT was executed to keep transmitting and receiving data via Bluetooth.
- d. The following test mode was performed for conduction and radiation test:

GFSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.

8DPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.

### 2.4 Description of Test System

Device	Manufacturer	Model No.	Description					
Remote works	Remote workstation							
N/A								

#### Use Cable:

Cable	Quantity	Description
N/A		

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date
 : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No.
 : 8 of 47

FCC ID : VUIITV8100

#### 2.5 General Information of Test

Test Site:	Cerpass Technology (Suzhou) Co.,Ltd			
Test Site Location :	No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China			
NVLAP LAB Code :	200814-0			
FCC Registration Number :	331395			
IC Registration Number :	7290A-1, 7290A-2			
VCCI Registration Number :	T-1945 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test below 1GHz G-227 for Radiated emission test above 1GHz			
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 25000MHz			
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.			

### 2.6 Measurement Uncertainty

Measurement Item	Measurement Uncertainty
Conducted Emission	±2.71 dB
Radiation test (10m) below	Vertical: ±3.89 dB
1GHz	Horizontal: ±4.11 dB
Padiation tost (2m) balow 1CHz	Vertical: ±4.11 dB
Radiation test (3m) below 1GHz	Horizontal: ±4.10 dB
20 dB Bandwidth	7500 Hz
Maximum Peak Output Power	±1.4 dB
100kHz Bandwidth of Frequency	10 0 dD
Band Edges	±2.2 dB
Power Spectral Density	±1.3870 dB

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date
 : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No.
 : 9 of 47

FCC ID : VUIITV8100

### 3. Antenna Requirements

### 3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 3.2 Antenna Construction and Directional Gain

Antenna Model: Xi4 PCB Antenna

Antenna type: PCB

Antenna Gain: 4.55dBi

**Cerpass Technology (Suzhou) Co., Ltd**Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 10 of 47
FCC ID : VUIITV8100

## 4. Test of Conducted Emission

#### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)	
0.15 - 0.5	66-56*	56-46*	
0.5 - 5.0	56	46	
5.0 - 30.0	60	50	

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 4.2 Test Procedures

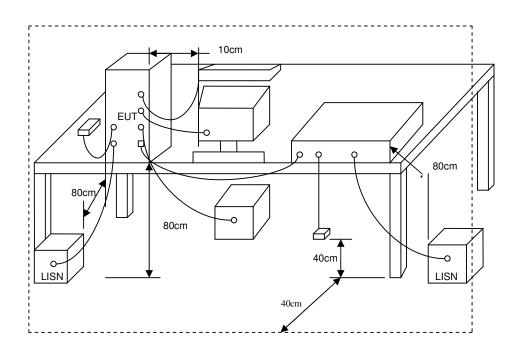
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 11 of 47

FCC ID : VUIITV8100

### 4.3 Typical Test Setup



### 4.4 Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2014.03.24	2015.03.23
AMN	R&S	ESH2-Z5	100182	2014.09.11	2015.09.10
ISN	FCC	FCC-TLISN-	20379	0014 00 04	2015.03.23
ISIN	100	T2-02	20379	2014.03.24	2015.05.25
ISN	FCC	FCC-TLISN-	20380	2014 02 24	2015.03.23
ISIN	FCC	T4-02	20300	2014.03.24	
ISN	FCC	FCC-TLISN-	20381	2014.03.24	2015.03.23
ISIN		T8-02			
ISN	TESEQ	ISN ST08	30175	2014.03.24	2015.03.23
Current Probe	R&S	EZ-17	100303	2014.04.04	2015.04.03
Passive Voltage Probe	R&S	ESH2-Z3	100026	2014.03.24	2015.03.23
Pulse Limiter	R&S	ESH3-Z2	100529	2014.03.24	2015.03.23
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2014.03.31	2015.03.30

Cerpass Technology (Suzhou) Co., Ltd

Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 12 of 47

Report No.: SEFB1412077

FCC ID : VUIITV8100

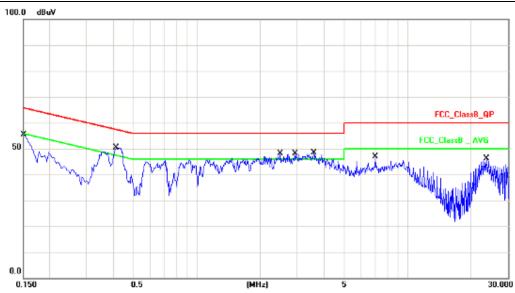


#### 4.5 Test Result and Data

Test Mode: Mode 1: Normal Link

AC Power: AC 120V/60Hz Phase: LINE **24**℃ Temperature: Humidity: 42%

Pressure(mbar): 1002 Date: 2014/12/14



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.1500	10.13	40.32	50.45	65.99	-15.54	QP
2	0.1500	10.13	28.01	38.14	55.99	-17.85	AVG
3	0.4140	10.15	38.29	48.44	57.57	-9.13	QP
4	0.4140	10.15	31.09	41.24	47.57	-6.33	AVG
5	2.4980	10.18	31.90	42.08	56.00	-13.92	QP
6	2.4980	10.18	22.35	32.53	46.00	-13.47	AVG
7	2.9300	10.19	31.64	41.83	56.00	-14.17	QP
8	2.9300	10.19	24.57	34.76	46.00	-11.24	AVG
9	3.5980	10.20	31.70	41.90	56.00	-14.10	QP
10	3.5980	10.20	24.48	34.68	46.00	-11.32	AVG
11	7.0300	10.26	32.28	42.54	60.00	-17.46	QP
12	7.0300	10.26	28.51	38.77	50.00	-11.23	AVG
13	23.6940	10.40	32.62	43.02	60.00	-16.98	QP
14	23.6940	10.40	30.25	40.65	50.00	-9.35	AVG

Note: Measurement Level = Reading Level + Correct Factor

Cerpass Technology (Suzhou) Co., Ltd

Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015 Page No. : 13 of 47 FCC ID : VUIITV8100

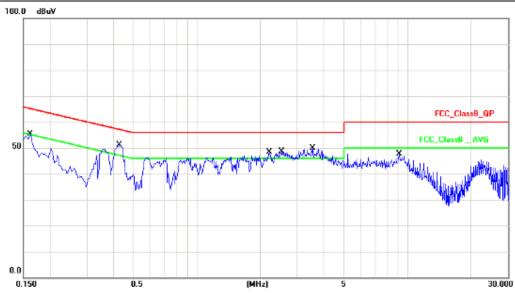


Test Mode: Mode 1: Normal Link

AC Power : AC 120V/60Hz Phase : NEUTRAL

Temperature :  $24^{\circ}$ C Humidity : 42%

Pressure(mbar): 1002 Date: 2014/12/14



No.	Frequency	Factor	Reading	Level	Limit	Margin	Detector
	(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.1620	10.13	39.57	49.70	65.36	-15.66	QP
2	0.1620	10.13	30.64	40.77	55.36	-14.59	AVG
3	0.4300	10.15	38.89	49.04	57.25	-8.21	QP
4	0.4300	10.15	28.74	38.89	47.25	-8.36	AVG
5	2.2020	10.18	32.31	42.49	56.00	-13.51	QP
6	2.2020	10.18	24.30	34.48	46.00	-11.52	AVG
7	2.5180	10.19	31.97	42.16	56.00	-13.84	QP
8	2.5180	10.19	22.51	32.70	46.00	-13.30	AVG
9	3.5580	10.21	32.70	42.91	56.00	-13.09	QP
10	3.5580	10.21	24.85	35.06	46.00	-10.94	AVG
11	9.1100	10.27	31.66	41.93	60.00	-18.07	QP
12	9.1100	10.27	26.04	36.31	50.00	-13.69	AVG

Note: Measurement Level = Reading Level + Correct Factor

Cerpass Technology (Suzhou) Co., Ltd

Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 14 of 47
FCC ID : VUIITV8100

#### 5. Test of Radiated Emission

#### 5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2009. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Report No.: SEFB1412077

FREQUENCIES(MHz)	FIELD STRENGTH(microvolts/meter)	MEASUREMENT DISTANCE(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency	Distance	Radiated	
(MHz)	Meters	(dB μ V/ M)	
30-230	10	30	
230-1000	10	37	

#### 5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 15 of 47

 FCC ID : VUIITV8100

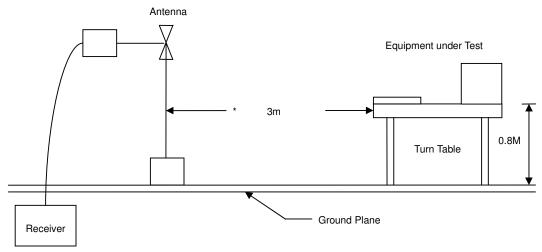
If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

Report No.: SEFB1412077

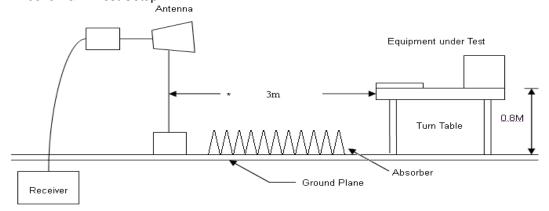
h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

#### 5.3 **Typical Test Setup**

Below 1GHz Test Setup



#### Above 1GHz Test Setup



Cerpass Technology (Suzhou) Co., Ltd

Issued Date: Jan 21, 2015 Tel: 86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 16 of 47 FCC ID : VUIITV8100



### 5.4 Measurement equipment

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	100563	2014.02.10	2015.02.09
H64 Preamplifier	HP	8447F	3113A05582	2014.03.10	2015.03.09
Preamplifier	Agilent	8449B	3008A02342	2014.03.10	2015.03.09
Ultra Broadband Antenna	R&S	HL562	100362	2015.05.02	2015.05.01
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2014.05.02	2015.05.01
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	9170-347	2014.05.12	2015.05.11
Spectrum Analyzer	R&S	FSP40	100324	2014.03.10	2015.03.09
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-002	2014.03.10	2015.03.09

**Cerpass Technology (Suzhou) Co., Ltd**Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 17 of 47
FCC ID : VUIITV8100

#### 5.5 Test Result and Data

#### **Under 1G**

Site : EMC Lab AC 102	Time : 2014-12-23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: normal link	Probe : VERTICAL/ HORIZONTAL

Frequency	AntPol.	Correct	Reading	Measure	Limit 3m	Safe	Detector
(MHz)	H/V	Factor	level	Level	(dBuV/m)	Margin	mode
		(dB)	(dBuV)	(dBuV/m)		(dB)	(PK/QP)
251.174	Н	-8.74	44.96	36.22	46	-9.78	QP
359.641	Н	-4.41	49.42	45.01	46	-0.99	QP
376.521	Н	-4.95	45.23	40.28	46	-5.72	QP
480.4325	Н	-1.1	41.11	40.01	46	-5.99	QP
600.826	Н	-1.05	37.86	36.81	46	-9.19	QP
960.6354	Н	3.17	36.13	39.3	54	-14.7	QP
55.3854	V	-16.94	49.07	32.13	40	-7.87	QP
251.3965	V	-8.74	47.91	39.17	46	-6.83	QP
358.9002	V	-4.41	46.85	42.44	46	-3.56	QP
481.974	٧	-1.1	43.29	42.19	46	-3.81	QP
500.6589	V	-2.2	41.75	39.55	46	-6.45	QP
601.5233	V	-1.05	43.74	42.69	46	-3.31	QP

#### Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 18 of 47

FCC ID : VUIITV8100



#### **Above 1G**

Site : EMC Lab AC 102	Time : 2015-01-21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit by GFSK(1M) 2402MHz	Probe : VERTICAL/ HORIZONTAL

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	ıal Fs	Peak Limit	AV Limit	Margin (dB)	Margin (dB)
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	AV	Peak
4804.64	V	33.16	-	18.1	51.26	-	74	54	-	-22.74
7605.99	V	28.33	-	24.95	53.28	-	74	54	-	-20.72
4804.64	Н	31.58	-	18.35	49.93	-	74	54	-	-24.07
7603.31	Н	26.96	-	26.32	53.28	-	74	54	-	-20.72

#### Note:

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

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 Issued Date
 : Jan 21, 2015

 Page No.
 : 19 of 47

 FCC ID
 : VUIITV8100

Site : EMC Lab AC 102	Time : 2015-01-21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit by GFSK(1M) 2441MHz	Probe : VERTICAL/ HORIZONTAL

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Acti	Actual Fs		AV Limit	Margin (dB)	Margin (dB)
		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	AV	Peak
4883.57	V	26.59	-	19.12	45.71	-	74	54	-	-28.29
7326.33	V	26.22	-	25.34	51.56	-	74	54	-	-22.44
4884.32	Н	26.03	-	19.23	45.26	-	74	54	-	-28.74
7326.11	Н	26.9	-	26.05	52.95	-	74	54	-	-21.05

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

Issued Date : Jan 21, 2015
 Page No. : 20 of 47
 FCC ID : VUIITV8100

Site : EMC Lab AC 102	Time : 2015-01-21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit by GFSK(1M) 2480MHz	Probe : VERTICAL/ HORIZONTAL

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Margin (dB)	Margin (dB)
		(dBuV)	(dBuV)	(dB)	Peak	AV (dBuV/m)		(dBuV/m)	AV	Peak
4964.59	V	27.15	-	22.34	49.49	- (uDu v/III)	74	54	-	-24.51
7444.26	V	25.13	-	26.11	51.24	-	74	54	-	-22.76
4962.34	Н	29.5	-	20.45	49.95	-	74	54	-	-24.05
7445.17	Н	24.18	-	26.56	50.74	-	74	54	-	-23.26

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

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Issued Date : Jan 21, 2015
Page No. : 21 of 47
FCC ID : VUIITV8100

ERPASS TECHNOLOGY (SUZHOU)CO., LTD.	Report No.: SEFB1412077
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Site : EMC Lab AC 102	Time : 2015-01-21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit by 8DPSK(3M) 2402MHz	Probe : VERTICAL/ HORIZONTAL

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	Actual Fs		AV Limit	Margin (dB)	Margin (dB)
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	AV	Peak
					(dBuV/m)	(dBuV/m)				
4804.12	V	25.05	-	18.10	43.15	-	74	54	-	-30.85
7444.27	V	22.10	-	24.95	47.05	-	74	54	-	-26.95
4808.26	Н	24.55	-	18.35	42.90	-	74	54	-	-31.10
7444.77	Н	25.19	-	26.32	51.51	-	74	54	-	-22.49

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

**Cerpass Technology (Suzhou) Co., Ltd**Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

 Issued Date
 : Jan 21, 2015

 Page No.
 : 22 of 47

 FCC ID
 : VUIITV8100

Site : EMC Lab AC 102	Time : 2015-01-21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit by 8DPSK(3M) 2441MHz	Probe : VERTICAL/ HORIZONTAL

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Margin (dB)	Margin (dB)
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	AV	Peak
					(dBuV/m)	(dBuV/m)				
4886.50	V	26.13	-	19.12	45.25	-	74	54	-	-28.75
7322.35	V	26.21	-	25.34	51.55	-	74	54	-	-22.45
4888.58	Н	26.22	-	19.23	45.45	-	74	54	-	-28.55
7324.24	Н	25.17	-	26.05	51.22	-	74	54	-	-22.78
		·				·			·	
		·							·	

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

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Issued Date : Jan 21, 2015
Page No. : 23 of 47
FCC ID : VUIITV8100

Site : EMC Lab AC 102	Time : 2015-01-21
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Test mode: Transmit by 8DPSK(3M) 2480MHz	Probe : VERTICAL/ HORIZONTAL

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	Actual Fs		AV Limit	Margin (dB)	Margin (dB)
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	AV	Peak
					(dBuV/m)	(dBuV/m)				
4958.74	V	27.88	-	22.34	50.22	-	74	54	-	-23.78
7325.59	V	25.42	-	26.11	51.53	-	74	54	-	-22.47
4956.21	Н	30.19	-	20.45	50.64	-	74	54	-	-23.36
7324.69	Н	23.33	-	26.56	49.89	-	74	54	-	-24.11

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor

**Cerpass Technology (Suzhou) Co., Ltd**Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

 Issued Date
 : Jan 21, 2015

 Page No.
 : 24 of 47

 FCC ID
 : VUIITV8100



#### 5.6 Restrict band emission Measurement Data

Test Date : Jan 21, 2015

Temperature :  $25^{\circ}$ C Humidity : 55% Atmospheric Pressure : 1020 hPa

1M

Channel 0						Fu	ındame	ental Frequ	uency: 240	2 MHz
Frequency (MHz)	' '		Corrected Result		Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High
, ,		J		,		Peak	Avg	, ,	· • • •	(cm)
2390.00	Η	40.15	11.08	51.23	Peak	74	54	-22.77	0	100
	Н				Avg	74	54			
2390.00	٧	41.52	10.6	52.12	Peak	74	54	-21.88	158	100
	V				Avg	74	54			
Channel 78						Fι	ındame	ental Frequ	uency: 248	0 MHz
2483.50	Н	42.18	10.62	52.80	Peak	74	54	-21.20	0	100
	Н				Avg	74	54			
2483.50	V	40.61	10.63	51.24	Peak	74	54	-22.76	162	100
	V				Avg	74	54			

#### ЗМ

Channel 0 Fundamental Frequency: 2402 MHz										
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High
						Peak	Avg			(cm)
2390.00	Н	39.32	11.08	50.40	Peak	74	54	-23.60	0	100
	Н				Avg	74	54			
2390.00	V	40.06	10.60	50.66	Peak	74	54	-23.34	157	100
	V				Avg	74	54			
Channel 78						Fι	ındame	ntal Frequ	uency: 248	0 MHz
2483.50	Н	38.37	10.62	48.99	Peak	74	54	-25.01	0	100
	Н				Avg	74	54			
2483.50	V	40.06	10.63	50.69	Peak	74	54	-23.31	153	100
	V				Avg	74	54			

#### Notes:

- 1. Result = Meter Reading + Factor
- 2. Factor = Antenna Factor + Cable Loss Amplifier
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
- 4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 25 of 47

FCC ID : VUIITV8100

#### 6. 20dB Bandwidth Measurement Data

#### 6.1 Test 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.

#### 6.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- c. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

#### 6.3 Test Setup Layout



#### 6.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	Agilent	N9010A	MY53400169	2014.09.28	2015.09.27

#### 6.5 Test Result and Data

1M

Channel	Frequency (MHz)	20dB Bandwidth (KHz)
00	2402	1044
39	2441	1042
78	2480	1042

3M

OW .							
Channel	Frequency (MHz)	20dB Bandwidth (KHz)					
00	2402	1200					
39	2441	1201					
78	2480	1201					

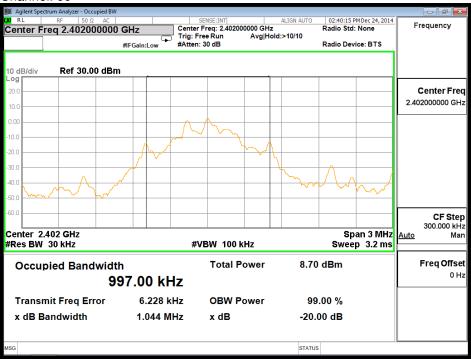
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 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 26 of 47

FCC ID : VUIITV8100

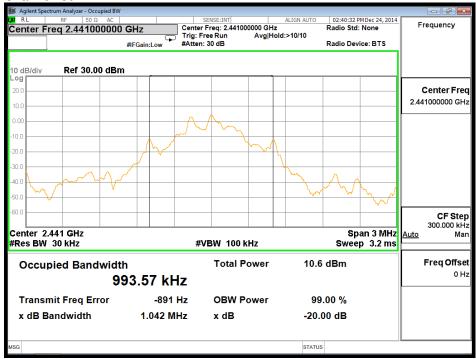
Modulation Standard: GFSK (1Mbps)

Channel: 00



Modulation Standard: GFSK (1Mbps)

Channel: 39



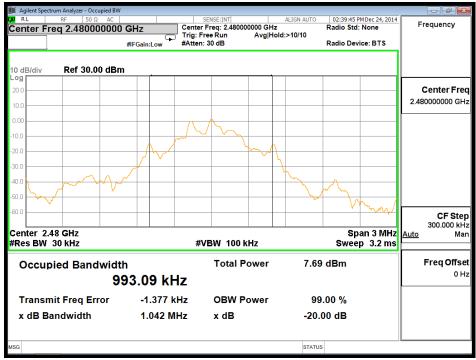
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 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 27 of 47

FCC ID : VUIITV8100

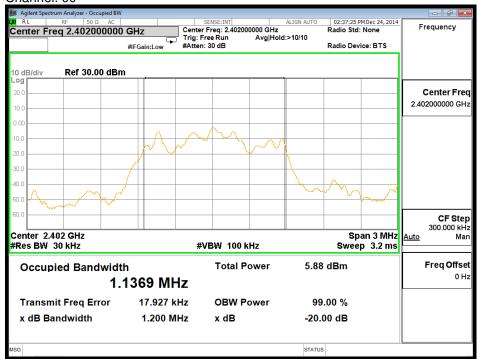
### Modulation Standard: GFSK (1Mbps)

Channel: 78



#### Modulation Standard: 8DPSK (3Mbps)

Channel: 00



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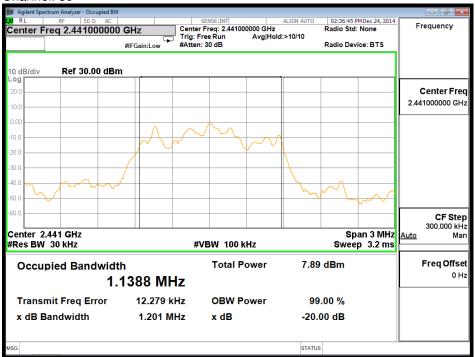
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Issued Date : Jan 21, 2015
Page No. : 28 of 47
FCC ID : VUIITV8100

## Report No.: SEFB1412077

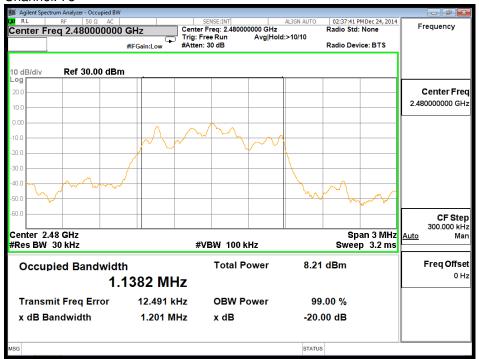
Modulation Standard: 8DPSK (3Mbps)

Channel: 39



Modulation Standard: 8DPSK (3Mbps)

Channel: 78



Cerpass Technology (Suzhou) Co., Ltd Issued Date: Jan 21, 2015 Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Page No. : 29 of 47 FCC ID : VUIITV8100



### 7. Frequencies Separation

#### 7.1 Test 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.

#### 7.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 30 KHz and VBW to 100 KHz.
- c. By using the MaxHold function record the separation of two adjacent channels.
- d. Measure the frequency difference of these two adjacent channels.

#### 7.3 Test Setup Layout



#### 7.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	Agilent	N9010A	MY53400169	2014.09.28	2015.09.27

#### 7.5 Test Result and Data

1M

Channel Separation	Result
(MHz)	
1.000	Pass
3M	

Channel Separation	Result
(MHz)	
1.000	Pass

Issued Date : Jan 21, 2015 Cerpass Technology (Suzhou) Co., Ltd Tel: 86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 30 of 47

FCC ID : VUIITV8100

Modulation Standard: GFSK (1Mbps)



#### Modulation Standard:8DPSK (3Mbps)



Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 31 of 47
FCC ID : VUIITV8100

#### 8. Dwell Time on each channel

#### 8.1 Test Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

#### 8.2 Test Procedures

- 1. The transmitter output was connected to the spectrum analyzer.
- 2. Adjust the center frequency to measure frequency, then set zero span mode.
- 2. Set RBW of spectrum analyzer to 1 MHz and VBW to 1 MHz.
- 4. Measure the time duration of one transmission on the measured frequency.

#### 8.3 Test Setup Layout



#### 8.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	Agilent	N9010A	MY53400169	2014.09.28	2015.09.27

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 32 of 47

FCC ID : VUIITV8100

#### 8.5 Test Result and Data

Test Date: Dec 23, 2014 Temperature:  $25^{\circ}$ C Atmospheric pressure: 1020 hPa Humidity:  $55^{\circ}$ 

1M DH 1

0.38 \* (1600/2)/79 \* 31.6 = 132.16 (ms)

	Total of Dwell (ms)		Limit (ms)	Result
0.38	121.6	31.60	400	PASS

DH 3

1.640\* (1600/4)/79 \* 31.6 = 262.40 (ms)

	Total of Dwell (ms)		Limit (ms)	Result
1.640	262.40	31.60	400	PASS

DH 5

2.890\* (1600/6)/79 \* 31.6 =308.27 (ms)

			Limit (ms)	Result
2.890	308.27	31.60	400	PASS

Issued Date : Jan 21, 2015
Page No. : 33 of 47
FCC ID : VUIITV8100



ЗМ

DH 1

0.400 \* (1600/2)/79 \* 31.6 = 128.0 (ms)

			Limit (ms)	Result
0.400	128.0	31.60	400	PASS

DH 3

1.650 \* (1600/4)/79 \* 31.6 = 264.0 (ms)

(1000/1)/10 0110 =0110(0)						
			Limit (ms)	Result		
1.650	264.0	31.60	400	PASS		

DH 5

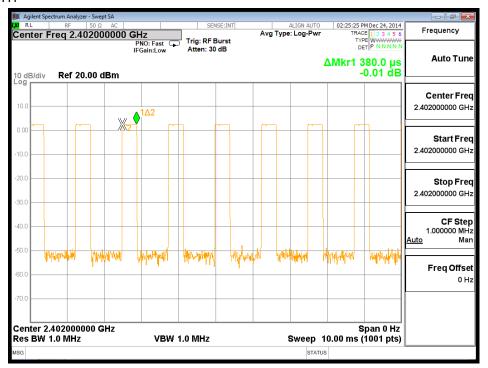
2.900\* (1600/6)/79\*31.6 = 309.3 (ms)

			Limit (ms)	Result
2.900	309.3	31.60	400	PASS

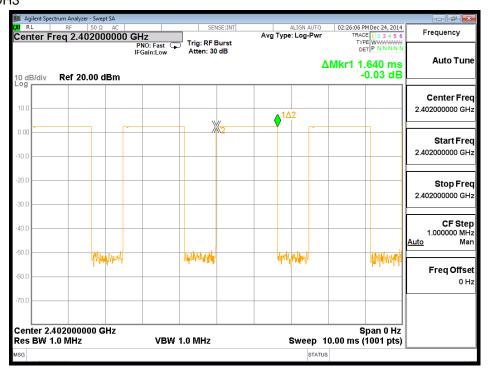
Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 34 of 47
FCC ID : VUIITV8100

Modulation Standard: GFSK (1Mbps) DH1



Modulation Standard: GFSK (1Mbps) DH3



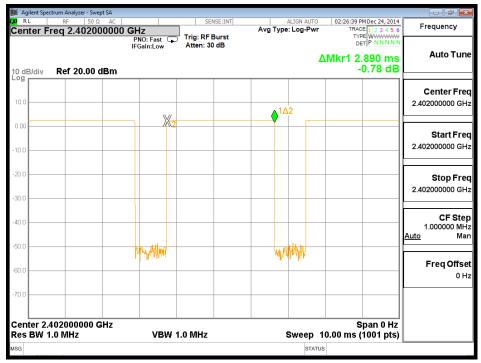
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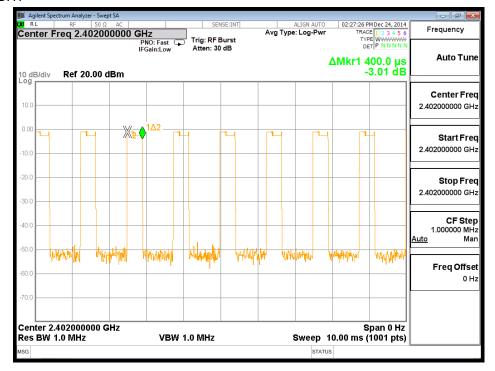
Issued Date : Jan 21, 2015
Page No. : 35 of 47
FCC ID : VUIITV8100

Report No.: SEFB1412077

Modulation Standard: GFSK (1Mbps) DH<sub>5</sub>

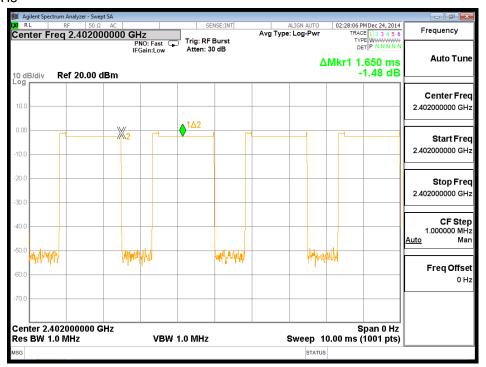


Modulation Standard: 8DPSK (3Mbps)

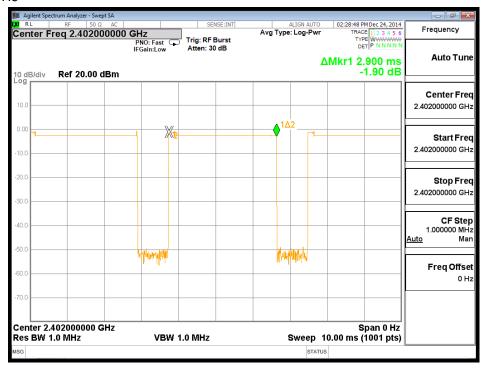


Cerpass Technology (Suzhou) Co., Ltd Tel: 86-512-6917-5888 Fax: 86-512-6917-5666 Issued Date: Jan 21, 2015 Page No. : 36 of 47 FCC ID : VUIITV8100

Modulation Standard: 8DPSK (3Mbps) DH3



Modulation Standard: 8DPSK (3Mbps) DH5



Cerpass Technology (Suzhou) Co., Ltd

Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

Issued Date : Jan 21, 2015
Page No. : 37 of 47

FCC ID : VUIITV8100

### 9. Number of Hopping Channels

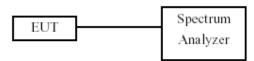
#### 9.1 Test Limit

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

#### 9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. 2. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. 3. Set the MaxHold function, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been record.

#### 9.3 Test Setup Layout



### 9.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	Agilent	N9010A	MY53400169	2014.09.28	2015.09.27

#### 9.5 Test Result and Data

Modulation Standard: GFSK (1Mbps)

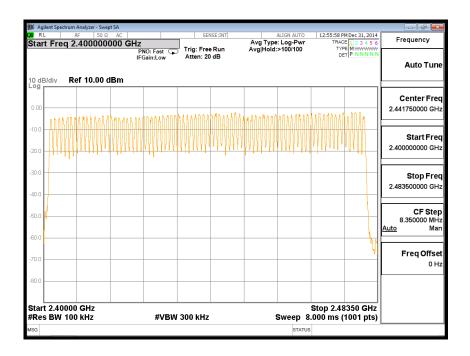
Number of hopping channels: 7	9 Channels
-------------------------------	------------

Modulation Standard: 8DPSK (3Mbps)

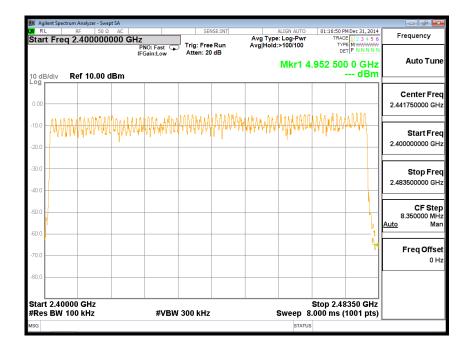
Issued Date : Jan 21, 2015 Cerpass Technology (Suzhou) Co., Ltd Tel: 86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 38 of 47

FCC ID : VUIITV8100

Modulation Standard: GFSK (1Mbps)



Modulation Standard: 8DPSK (3Mbps)



 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 39 of 47

FCC ID : VUIITV8100

### 10. Maximum Peak Output Power

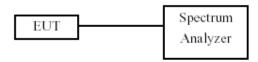
#### 10.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

#### 10.2 Test Procedures

The antenna port( RF output ) of the EUT was connected to the input( RF input ) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

#### 10.3 Test Setup Layout



#### 10.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	Agilent	N9010A	MY53400169	2014.09.28	2015.09.27

#### 10.5 Test Result and Data

1M

Channel	Frequency (MHz)	Average Power Output (dBm)	Peak Power Output (dBm)
00	2402	2.121	3.521
39	2441	2.055	3.429
78	2478	1.958	2.735
3M			

Channel	Frequency (MHz)	Average Power Output (dBm)	Peak Power Output (dBm)
00	2402	1.255	2.799
39	2441	1.094	2.595
78	2478	0.499	1.814

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No. : 40 of 47

FCC ID : VUIITV8100

### 11. Band Edges Measurement

#### 11.1 Test Limit

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

#### 11.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. The band edges was measured and recorded.

#### 11.3 Test Setup Layout



#### 11.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	Agilent	N9010A	MY53400169	2014.09.28	2015.09.27

#### 11.5 Test Result and Data

1M

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)	
00	2402	2400.00	-38.822	
78	2480	2483.50	-55.523	

3<u>IVI</u>

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
00	2402	2400.00	-50.714
78	2480	2483.50	-56.149

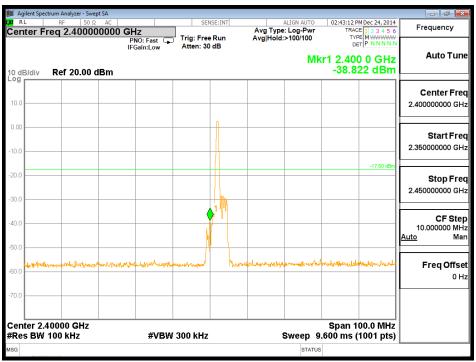
 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date
 : Jan 21, 2015

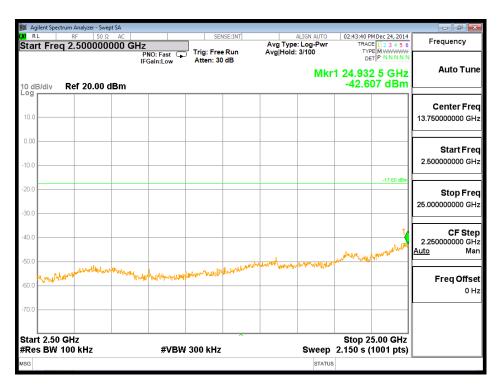
 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No.
 : 41 of 47

FCC ID : VUIITV8100

Modulation Standard: GFSK (1Mbps)

Channel: 00





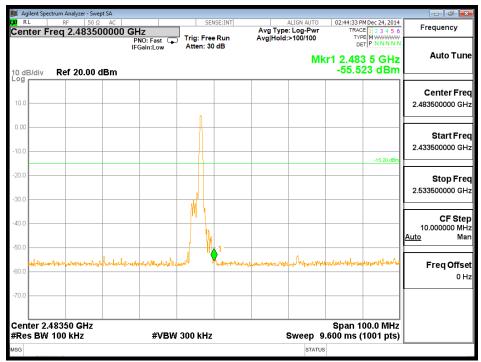
 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date
 : Jan 21, 2015

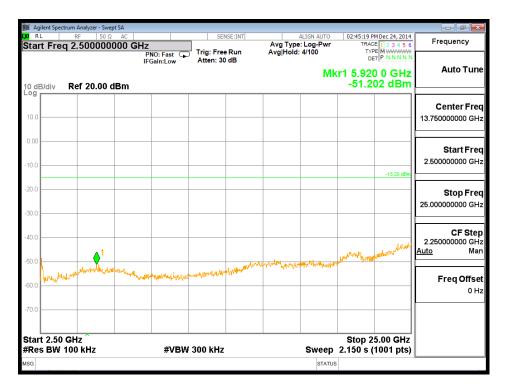
 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No.
 : 42 of 47

FCC ID : VUIITV8100

Modulation Standard: GFSK (1Mbps)

Channel: 78





Modulation Standard: 8DPSK (3Mbps)

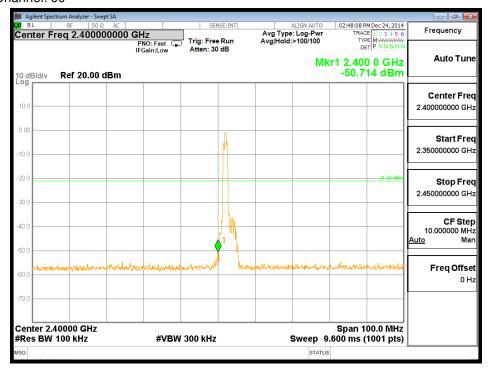
**Cerpass Technology (Suzhou) Co., Ltd**Tel: 86-512-6917-5888 Fax: 86-512-6917-5666

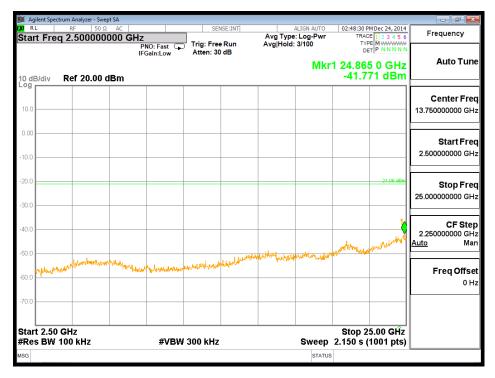
Issued Date : Jan 21, 2015
Page No. : 43 of 47

FCC ID : VUIITV8100

### CERPASS TECHNOLOGY (SUZHOU)CO., LTD. Report No.: SEFB1412077

#### Channel: 00





Issued Date : Jan 21, 2015

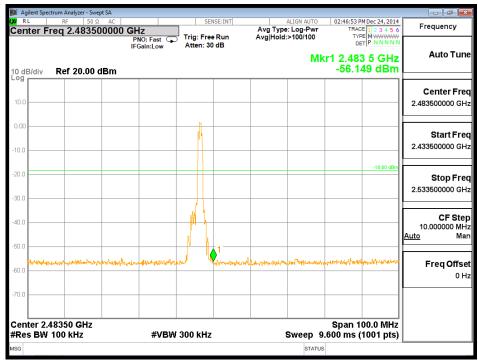
Page No. : 44 of 47

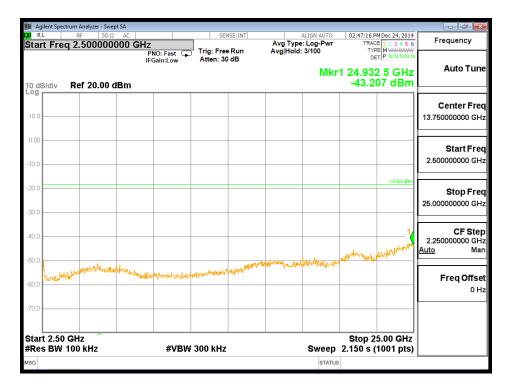
FCC ID : VUIITV8100



Modulation Standard: 8DPSK (3Mbps)

Channel: 78





Page No. : 45 of 47 FCC ID : VUIITV8100

 Cerpass Technology (Suzhou) Co., Ltd
 Issued Date
 : Jan 21, 2015

 Tel: 86-512-6917-5888
 Fax: 86-512-6917-5666
 Page No.
 : 46 of 47

FCC ID : VUIITV8100



### 12. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

		•	
MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 - 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 - 1240.0	7.250 - 7.750
4.12500 - 4.12800	25.50000 - 25.67000	1300.0 - 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 - 1626.5	9.000 - 9.200
4.20725 - 4.20775	73.00000 - 74.60000	1645.5 - 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 - 75.20000	1660.0 - 1710.0	10.600 - 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 - 13.400
6.31175 - 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 - 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 - 2390.0	15.350 - 16.200
8.36200 - 8.36600	156.52475 - 156.52525	2483.5 - 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 - 23.120
8.41425 - 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 - 24.000
12.29000 - 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 - 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 - 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

<sup>\*\*:</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

#### **Labeling Requirement** 12.1

The device shall bear the following statement in a conspicuous location on the device: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Issued Date : Jan 21, 2015 Cerpass Technology (Suzhou) Co., Ltd Tel: 86-512-6917-5888 Fax: 86-512-6917-5666 Page No. : 47 of 47

FCC ID : VUIITV8100