

# FCC RADIO TEST REPORT FCC ID: 2ADUM-OPL101

Product: OPCOM-1

**Trade Name:** OPCOM Link

Model Name: OPL101

Serial Model: N/A

**Report No.**: NTEK-2014NT0620971F

## **Prepared for**

OPCOM O.E.(DONGGUAN) INC.

Gu Cun Industry Estate Dajing Countryside Committee Houjie Town,Dongguan City Guangdong,China

## Prepared by

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Applicant's name .....: OPCOM O.E.(DONGGUAN) INC.



## **TEST RESULT CERTIFICATION**

Report No.: NTEK-2014NT0620971F

Address:	Gu Cun Industry Estate Dajing Countryside Committee Houjie Town,Dongguan City Guangdong,China						
Manufacture's Name:	OPCOM O.E.(DONGGUAN) INC.						
Address:	Gu Cun Industry Estate Dajing Countryside Committee Houjie Town,Dongguan City Guangdong,China						
Product description							
Product name:	OPCOM-1						
Model and/or type reference :	OPL101						
Serial Model:	N/A						
Standards:	FCC Part15.231: 01 Oct. 2014						
Test procedure	ANSI C63.4-2003						
	is been tested by NTEK, and the test results show that the n compliance with the FCC requirements. And it is applicable only in the report.						
·	ced except in full, without the written approval of NTEK, this rised by NTEK, personal only, and shall be noted in the revision of						
Date (s) of performance of tests							
Date of Issue	•						
Test Result							
Testing Engine	eer: Danny Grany						
	Denny Huang						
Technical Man	ager: Brown Ln						
	(Brown Lu)						
Authorized Sig							
	(Bill Yao)						

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.231)					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	Pass			
15.203	Antenna Requirement	Pass			
15.231	Radiated Spurious Emission	Pass			
15.231	Occupied Bandwidth	Pass			
15.231	Transmitter Timeout	Pass			

## NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Report No.: NTEK-2014NT0620971F

Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	OPCOM-1	OPCOM-1			
Trade Name	OPCOM Link				
Model Name	OPL101				
Serial Model	N/A				
Model Difference	N/A				
	The EUT is a OPCOM-	1			
	Product Type	Infrared			
	Operation Frequency:	915.00MHz			
	Modulation Type:	GFSK			
	Number Of Channel	1CH.			
Product Description	Antenna Designation:	permanent attached antenna			
·	Antenna Gain(Peak)	1 dBi			
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.				
Channel List	CH 1: 915.00MHz				
Adapter	N/A				
Input:	DC 4.5V				

## Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 2.

## Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	permanent attached antenna	N/A	1	Antenna



#### 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX

For Conducted Emission			
Final Test Mode	Description		
Mode 1	TX		

For Radiated Emission			
Final Test Mode	Description		
Mode 1	TX		

Note:

(1) The EUT use new battery.



## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test

E-1 EUT



## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	OPCOM-1	OPCOM Link	OPL101	N/A	EUT
E-2	Adapter	N/A	AD1	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	

#### Note:

(1) The support equipment was authorized by Declaration of Confirmation.

(2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.07	2015.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year

Conduction Test equipment

-	Sondaction Test equipment						
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year



3. ANTENNA REQUIREMENT

## 3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

#### 3.2 EUT ANTENNA

The F	=UJT	antenna is	nermanent	: attached	antenna	It comply	/ with th	e standard	requirement
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## 3.3 CONDUCTED EMISSION MEASUREMENT

## 3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A	(dBuV)	Class B	(dBuV)	Standard
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



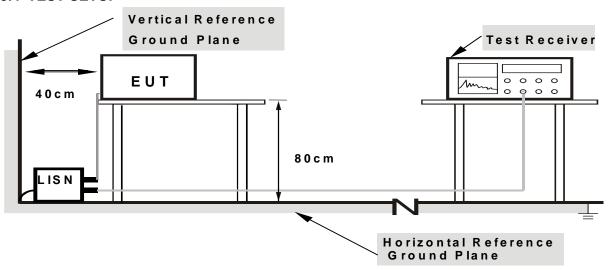
#### 3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 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 from other units and other metal planes

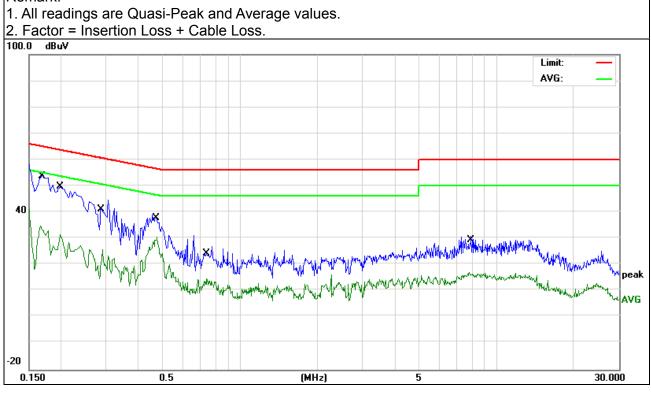


## 3.2.5 TEST RESULT

EUT:	wireless alarm kit	Model Name. :	OPL101
Temperature:	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
TASI VOHADA .	DC 12V form Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	43.65	9.59	53.24	65.15	-11.91	QP
0.1660	25.21	9.59	34.80	55.15	-20.35	AVG
0.1980	39.79	9.50	49.29	63.69	-14.40	QP
0.1980	22.01	9.50	31.51	53.69	-22.18	AVG
0.2899	31.74	9.50	41.24	60.52	-19.28	QP
0.2899	16.17	9.50	25.67	50.52	-24.85	AVG
0.4739	29.36	9.51	38.87	56.45	-17.58	QP
0.4739	20.91	9.51	30.42	46.45	-16.03	AVG
0.7378	14.08	9.53	23.61	56.00	-32.39	QP
0.7378	5.06	9.53	14.59	46.00	-31.41	AVG
7.8418	20.03	9.69	29.72	60.00	-30.28	QP
7.8418	7.24	9.69	16.93	50.00	-33.07	AVG

## Remark:





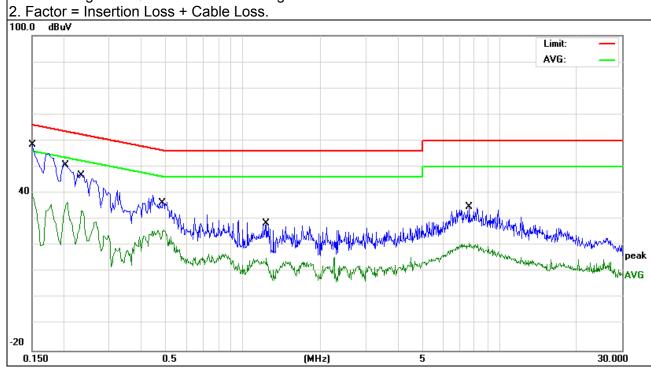
EUT:	wireless alarm kit	Model Name. :	OPL101
Temperature :	<b>26</b> ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test vollage .	DC 12V form Adapter AC 120V/60Hz	Test Mode :	Mode 1

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	48.85	9.63	58.48	65.99	-7.51	QP
0.1500	30.18	9.63	39.81	55.99	-16.18	AVG
0.2060	41.47	9.49	50.96	63.36	-12.40	QP
0.2060	27.14	9.49	36.63	53.36	-16.73	AVG
0.2340	37.52	9.49	47.01	62.30	-15.29	QP
0.2340	23.91	9.49	33.40	52.30	-18.90	AVG
0.4900	26.86	9.51	36.37	56.17	-19.80	QP
0.4900	16.60	9.51	26.11	46.17	-20.06	AVG
1.2340	18.46	9.53	27.99	56.00	-28.01	QP
1.2340	5.66	9.53	15.19	46.00	-30.81	AVG
7.6459	23.49	9.69	33.18	60.00	-26.82	QP
7.6459	11.32	9.69	21.01	50.00	-28.99	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.





#### 3.4 RADIATED EMISSION MEASUREMENT

## **3.4.1 Radiated Emission Limits** (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/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

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231)

	`	,
Fundamental Frequency (MHz)	Field Strength of fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)
40.66 - 40.70	2250.00	225.00
70 - 130	1250.00	125.00
130 - 174	1,250 to 3,750 **	125 to 375 **
174 - 260	3750.00	375.00
260 - 470	3,750 to 12,500 **	375 to 1,250 **
Above 470	12500.00	1250.00

#### Notes:

## (1) \*\* linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 93 Section 15.209, whichever limit permits a higher field strength.



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

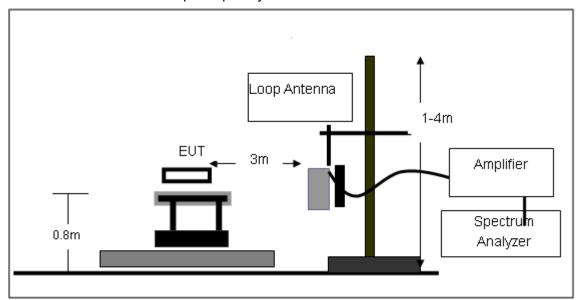
#### 3.4.3 DEVIATION FROM TEST STANDARD

No deviation

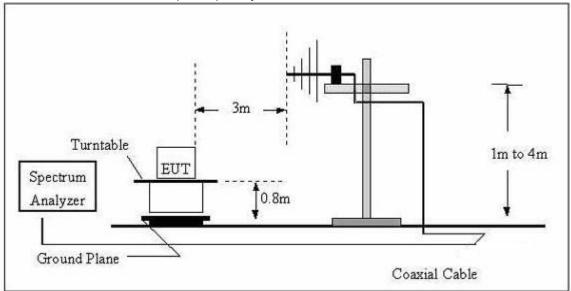


## 3.4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

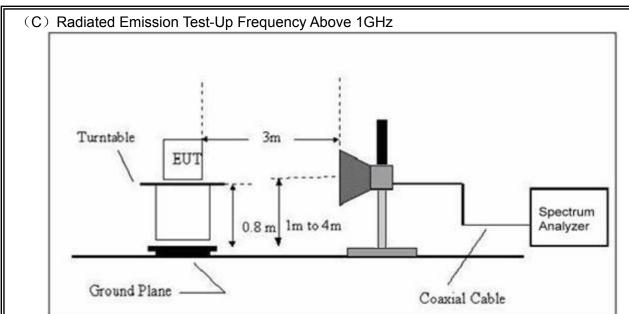


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz









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3.4.5 TEST RESULTS (BELOW 30MHz)

EUT:	OPCOM-1	Model Name. :	OPL101
Temperature :	<b>20</b> ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 4.5V
Test Mode :	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### NOTE:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



3.4.6 TEST RESULTS

EUT:	OPCOM-1	Model Name :	OPL101
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 4.5V
Test Mode :	TX	Polarization :	Horizontal

Report No.: NTEK-2014NT0620971F

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	State
915.00	-14.89	90.33	75.44	101.94	81.94	pass
1830.00	-14.89	60.26	45.37	74.00	54.00	pass
1455.62	-14.89	51.33	36.44	74.00	54.00	pass
1925.47	-14.89	50.23	35.34	74.00	54.00	pass
2254.85	-14.89	50.14	35.25	74.00	54.00	pass

EUT:	OPCOM-1	Model Name :	OPL101
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 4.5V
Test Mode :	TX	Polarization :	Vertical

Frequency	Average Factor	Field Strength	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dB	dBuV/m (PK)	dBuV/m (AV)	dBuV/m	dBuV/m	State
915.00	-14.89	92.52	77.63	101.94	81.94	pass
1830.00	-14.89	61.17	46.28	74.00	54.00	pass
1369.58	-14.89	52.58	37.69	74.00	54.00	pass
1899.24	-14.89	51.05	36.16	74.00	54.00	pass
2105.87	-14.89	50.98	36.09	74.00	54.00	pass

**NoTE:** 1. \*Calculate Average value based on Duty Cycle correction factor:

Duty Cycle=Ton/(Ton+Toff)= 18ms/100ms = 0.18 = 18%

Duty Cycle factor= 20lg (Duty Cycle) =20lg (0.18) = -14.89dB

Average=Peak+ Duty Cycle factor

2. Pulse Desensitization Correction Factor

Pulse Width (PW) = 100ms, 2/PW=2/100ms=0.02kHz,

 $RBW(100kHz) \!>\! 2/PW \; (0.02kHz) \; , \qquad \text{Therefore PDCF is not needed}$ 

3. EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report(X orientation).



#### 3.4.7 DUTY CYCLE

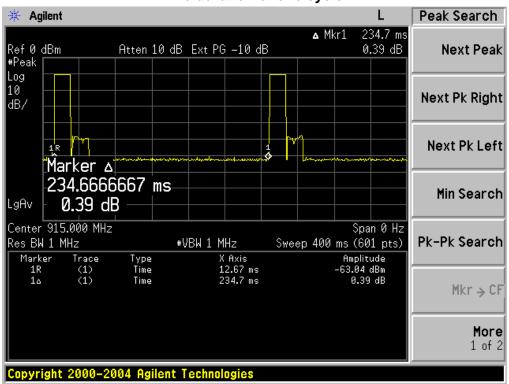
The duty cycle is simply the on time divided by the period:

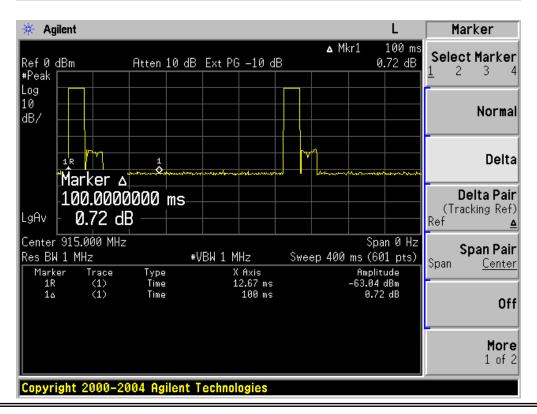
The duration of one cycle = 17.67ms

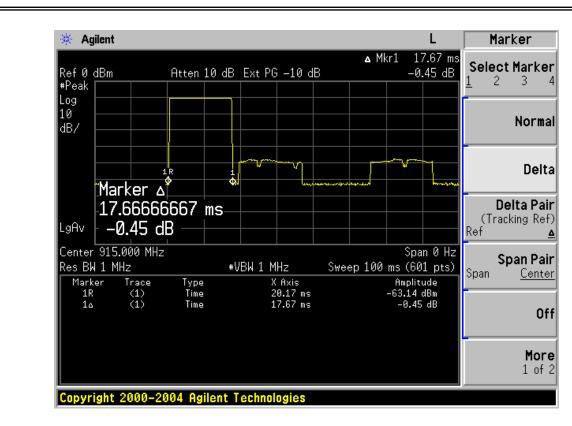
Effective period of the cycle = 100ms

Duty Cycle = 17.67ms/100ms = 0.18

#### The duration of one cycle









## 4. BANDWIDTH TEST

#### **4.1 TEST PROCEDURE**

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Limit: 915.00MHz\*0.5%=4575KHz

#### **4.2 DEVIATION FROM STANDARD**

No deviation.

## 4.3 TEST SETUP

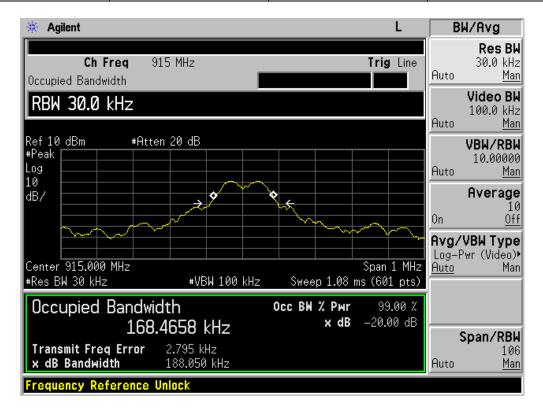
EUT	SPECTRUM
	ANALYZER



#### **4.4 TEST RESULTS**

EUT:	OPCOM-1	Model Name :	OPL101
Temperature :	<b>26</b> ℃	Relative Humidity:	53%
Pressure:	1020 hPa	Test Power :	DC 4.5V
Test Mode :	TX CH 1		

Test Channel	Frequency	20 dBc Bandwidth	Limit
	(MHz)	(kHz)	(kHz)
CH01	915.00	188.050	4575



•



#### 5. TRANSMITTER TIMEOUT

#### **5.1 REQUIREMENTS**

1 A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

**Result:** The EUT does not have manually activated transmitter,

2 A transmitter activated automatically shall cease transmission within 5 seconds after activation.

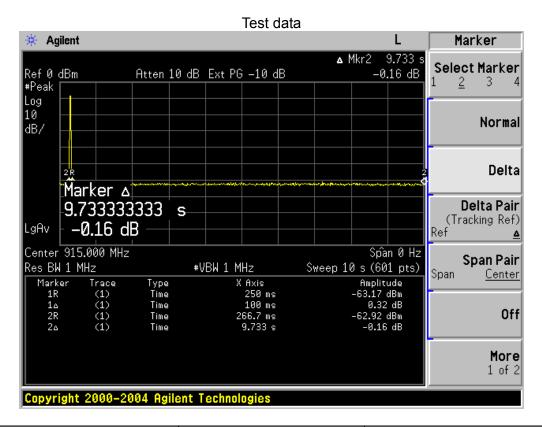
Result: The EUT has a automatically activated transmitter, please refer to below detail data

3 Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds

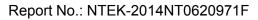
**Result:** The EUT does not employ periodic transmission.

4 Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

Result: The section is not applicable to EUT.



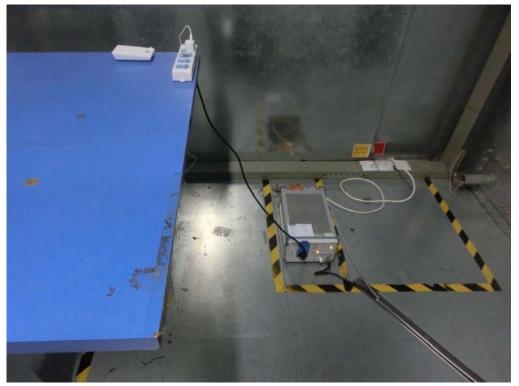
THE DURATION OF EACH TRANSMISSION	LIMIT	RESULT
100ms	<5s	PASS





# 6. EUT TEST PHOTO





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