

# Global United Technology Services Co., Ltd.

Report No.: GTS201610000080E02

# FCC REPORT

Applicant: Autel Intelligent Tech. Corp., Ltd.

Address of Applicant: 6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan

Shenzhen China

**Equipment Under Test (EUT)** 

Product Name: Professional Scan Tool

Model No.: MaxiTPMS TS508, MaxiTPMS TS408

Trade Mark: AUTEL

**FCC ID:** WQ82016-TS408

Applicable standards: FCC CFR Title 47 Part 15 Subpart C:2015

Date of sample receipt: October 25, 2016

**Date of Test:** October 26-November 08, 2016

Date of report issued: November 11, 2016

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

**Laboratory Manager** 

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

Version No.	Date	Description
00	November 11, 2016	Original

Prepared By:	Bill. yvan	Date:	November 11, 2016
	Project Engineer		
Check By:	- And www - Reviewer	Date: —	November 11, 2016



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# 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Radiated Emission	15.209	Pass
20dB Bandwidth	15.205	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

## 4.1 Measurement Uncertainty

Test Item Frequency Range Measurement Uncertainty					
Radiated Emission	± 4.34dB	(1)			
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)		
Radiated Emission	Radiated Emission 1GHz ~ 26.5GHz		(1)		
AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB					
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.		



## 5 General Information

## 5.1 Client Information

Applicant:	Autel Intelligent Tech. Corp., Ltd.
Address of Applicant:	6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan Shenzhen China
Manufacturer/ Factory:	Autel Intelligent Tech. Corp., Ltd.
Address of Manufacturer/ Factory:	6th - 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan Shenzhen China

## 5.2 General Description of EUT

<u> </u>	
Product Name:	Professional Scan Tool
Model No.:	MaxiTPMS TS508, MaxiTPMS TS408
Test Model:	MaxiTPMS TS508
Remark:	Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The only difference is the model name for commercial purpose.
Operation Frequency:	125KHz
Modulation type:	ASK
Antenna Type:	Integral Antenna
Antenna gain:	0dBi (declare by Manufacturer)
Power supply:	Adapter:
	Model:GME10C-050200FQU
	Input: AC 100-240V, 50/60Hz, 0.28A
	Output: DC 5V, 1A
	DC 3.7V 3200mAh Lithium Battery

#### Note:

In section 15.31(m), regards to the operating frequency range less than 1 MHz, only the middle frequency of channel was selected to perform the test, and the selected channel see below:

Channel	Frequency
Test channel	125KHz

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#### 5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting and charging mode

### 5.4 Description of Support Units

N/A

#### 5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road,

Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

#### 5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



# 6 Test Instruments list

Rad	Radiated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017
5	Loop Antenna	Zhinan	ZN30900A	GTS534	June. 29 2016	June. 28 2017
6	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017
7	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017
9	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
10	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017
11	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017
12	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017
13	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017
14	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017
15	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017
16	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017
17	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017
18	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017
19	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017

Conduc	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017	
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017	
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017	
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017	

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	June 29 2016	June 28 2017



## 7 Test results and Measurement Data

## 7.1 Antenna requirement:

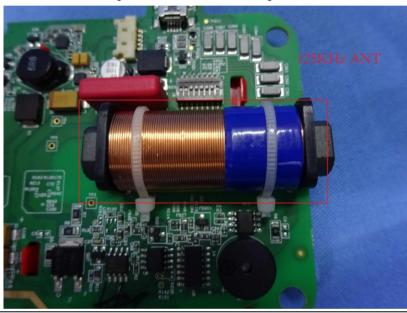
Standard requirement: FCC Part15 C Section 15.203

#### 15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### E.U.T Antenna:

The antenna is Integral Antenna, the best case gain of the antenna is 0dBi





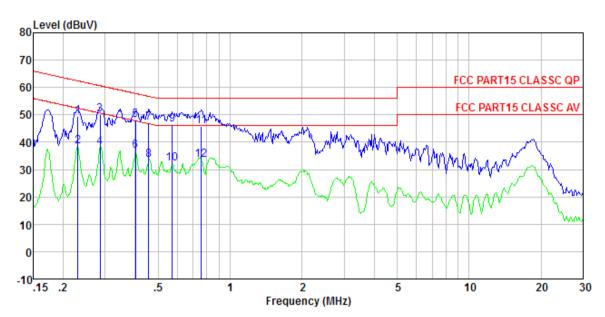
## 7.2 Conducted Emissions

Test Method:  ANSI C63.10:2013  Test Frequency Range:  Class B  Receiver setup:  RBW=9KHz, VBW=30KHz, Sweep time=auto  Limit:  Limit:  Limit (dBuV)  Quasi-peak Average  0.15-0.5 66 to 56* 56 to 46*  0.5-5 56 46  5-30 60 50  *Decreases with the logarithm of the frequency.  Reference Plane  LISN Line impedance Stabilization network (L.I.S.N.).  This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a line impedance stabilization network (L.I.S.N.).  This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.  Refer to section 6.0 for details	Test Requirement:	FCC Part15 C Section 15.207					
Class / Severity:  Receiver setup:  RBW=9KHz, VBW=30KHz, Sweep time=auto  Limit:  Limit:  Limit (dBuV)  Quasi-peak Average  0.15-0.5 66 to 56* 56 to 46*  0.5-5 56 46  5-30 60 50  * Decreases with the logarithm of the frequency.  Reference Plane  LISN  AUX  Equipment List on Boom  Aux Aux Act power  Entire LU.T  Test able/Insulation plane  Act power  Receiver  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.).  This provides a 500hm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.	·	ANSI C63.10:2013					
Receiver setup:    Comparison   Comparison	Test Frequency Range:	150KHz to 30MHz					
Limit:    Frequency range (MHz)	Class / Severity:	Class B					
Limit:    Frequency range (MHz)	Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Test setup:  Test setup:  Test procedure:  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance for the measuring equipment.  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.	Limit:			IBuV)			
Test setup:    Test setup:   Reference Plane   LISN   Filter   Ac power   Lisn   Receiver		Frequency range (MHz)					
Test setup:    Test setup:   Reference Plane   LISN		0.15-0.5	·				
* Decreases with the logarithm of the frequency.    Reference Plane							
* Decreases with the logarithm of the frequency.  Reference Plane  LISN  AC power  Remark  EUT : Equipment Under Test LISN Line impedence Stabilization Network Test table height-0-tim  Test procedure:  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.).  This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.		5-30	60	50			
Test setup:    Reference Plane		* Decreases with the logarithm	n of the frequency.				
Test procedure:  1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.	Test setup:	_	•				
through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.  2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.		AUX Filter AC power Equipment E.U.T Receiver  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network					
	Test procedure:	<ul> <li>through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI</li> </ul>					
	Test Instruments:						
Test mode: Refer to section 5.3 for details	Test mode:	Refer to section 5.3 for details					
Test results: Pass	Test results:	Pass					



#### Measurement data

Line:



: Shielded room Site

Condition : FCC PART15 CLASSC QP LISN-2016 LINE

: 0080

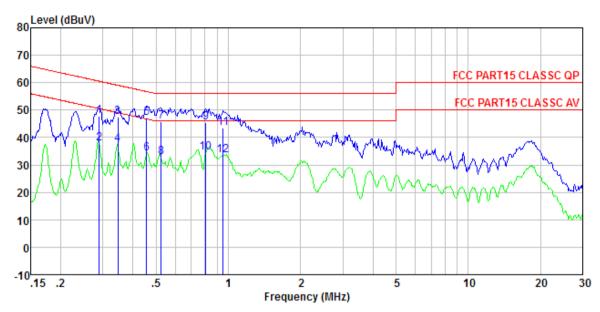
Job No. Test mode : transmitting mode

Test Engineer: Boy : 125KHz Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1	0.230	49.05	0.43	0.12	49.60		-12.84	-
2	0. 230 0. 286	37.82 49.56	0. 43 0. 44	0.12 0.10	38.37 50.10	60.63	-10.53	
4 5	0. 286 0. 402	37. 74 47. 64	0. 44 0. 42	0.10 0.11	38. 28 48. 17	50.63 57.81	-12.35 -9.64	Average QP
6 7	0. 402 0. 456	36.14 46.72	0.42 0.40	0.11 0.11	36.67 47.23	47.81 56.76	-11.14 -9.53	Average QP
8 9	0. 456 0. 573	33.04 46.03	0.40 0.32	0.11 0.12	33.55 46.47			Average
10	0.573	31.74	0.32	0.12	32.18	46.00	-13.82	Average
11 12	0. 759 0. 759	45. 44 33. 02	0. 27 0. 27	0.13 0.13	45. 84 33. 42		-10.16 -12.58	WP Average



#### Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSC QP LISN-2016 NEUTRAL

Job No. : 0080

Test mode : transmitting mode

Test Engineer: Boy Remark : 125KHz

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9 10 11	0. 289 0. 289 0. 346 0. 346 0. 456 0. 456 0. 524 0. 524 0. 804 0. 804	47. 27 37. 38 47. 02 37. 03 46. 48 33. 81 45. 32 32. 53 45. 06 33. 99 42. 98	0. 42 0. 42 0. 41 0. 41 0. 37 0. 37 0. 34 0. 23 0. 23 0. 21	0.10 0.10 0.10 0.10 0.11 0.11 0.11 0.13 0.13	47. 79 37. 90 47. 53 37. 54 46. 96 34. 29 45. 77 32. 98 45. 42 34. 35 43. 32	50.54 59.05 49.05 56.76 46.76 56.00 46.00 56.00	-11.52 -11.51 -9.80 -12.47 -10.23 -13.02 -10.58	Average QP Average QP Average QP Average QP Average QP Average
12	0.953	33.16	0.21	0.13	33.50			Average

#### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



## 7.3 Radiated Emission Method

7.5 Radia	7.3 Radiated Emission Method								
Test R	equirement:	FCC Part15 C Section 15.209							
Test M	lethod:	ANSI C63.4:2014	ļ						
Test Fr	requency Range:	9kHz to 1GHz							
Test sit	te:	Measurement Distance: 3m							
Receiv	er setup:	Frequency Detector RBW VBW Remark							
		9kHz - 30MHz	Quasi-pea		10kHz	30kHz	Quasi-peak Value		
		30MHz-1GHz	Quasi-pea		120kHz	300kHz	Quasi-peak Value		
		Remark: For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission test in these three bands are based on							
		measurements e					Daseu on		
Limit:		Limits for freque				0.01.			
	ous Emissions)				1	urement	Dominio		
(Opano	oud Emilionomo)	Frequency	Limit (u\	//m)	Dista	ance(m)	Remark		
		0.009-0.490	2400/F(k		;	300	Quasi-peak Value		
		0.490-1.705	24000/F(	kHz)		30	Quasi-peak Value		
		1.705-30	30	- 2014	<u> </u>	30	Quasi-peak Value		
		Limits for frequen			i <b>nz</b> nit (dBuV/	/m @2m)	Remark		
		Frequen 30MHz-88	•	LIII	40.0		Quasi-peak Value		
		88MHz-216			43.5		Quasi-peak Value		
		216MHz-96			46.0		Quasi-peak Value		
		960MHz-1	GHz		54.0	0	Quasi-peak Value		
		Above 10	H <sub>7</sub>		54.0		Average Value		
				<u> </u>	74.0		Peak Value		
		Remark: The em measurements e							
							000 MHz. Radiated		
		emission limits in							
		employing an ave							
Test Pr	rocedure:						0.8 meters above the		
		-					360 degrees to		
		determine the	-		_		ace receiving		
		2. The EUT was			-		le-height antenna		
		tower.	i was iiioai	itou o	ii aic top	or a variab	ie neigni antenna		
		3. The antenna h	eight is var	ied fro	om one m	neter to four	r meters above the		
		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
		4. For each suspected emission, the EUT was arranged to its worst case							
		and then the antenna was tuned to heights from 1 meter to 4 meters and							
		the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.							
			Ū	was s	et to Pea	k Detect Fu	unction and Specified		
		Bandwidth with					,		
		6. If the emission	level of the	e EUT	in peak	mode was	10dB lower than the		
							e peak values of the		
		EUT would be	reported. C	therw	vise the e	missions th	nat did not have 10dB		



Report No.: GTS201610000080E02 margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. Test setup: Below 30MHz Turntable EUT 0.8 m Test Receiver Ground Plane Coaxial Cable 30MHz ~ 1000MHz Turntable 1m to 4m EUT Spectrum 0.8m Analyzer Ground Plane Coaxial Cable Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details Test results: **Pass** 

## Measurement data:

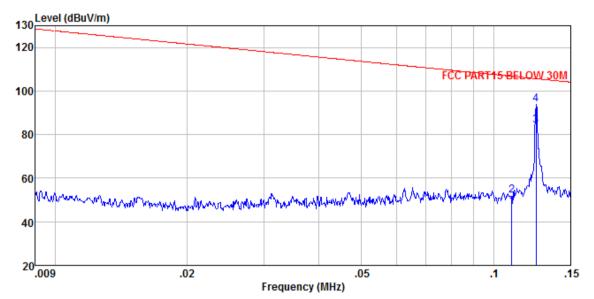
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#### Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80 Limit dBuV/m @3m = Limit dBuV/m @30m + 40

#### 9kHz ~ 30MHz



Site

3m chamber FCC PART15 BELOW 30M 3m Condition

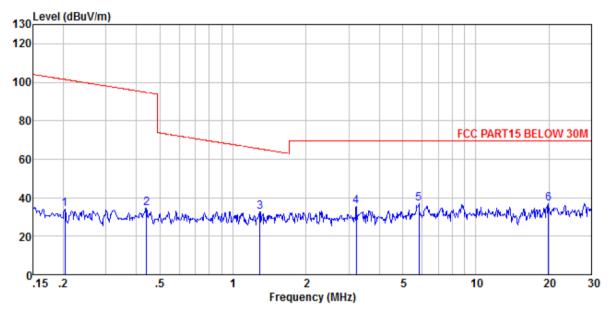
Job No. 0080

Test Mode : Test Engineer: Transmitting mode Sky

### Freq Level Factor Loss Factor Level Line Limit Remark  ###################################	-20	migineer.		Antenna	Cable	Preamn		Limit	Over		
1 0.110 22.45 24.12 0.17 0.00 46.74 106.78 -60.04 Average 2 0.110 27.76 24.12 0.17 0.00 52.05 106.78 -54.73 Peak		Freq								Remark	
2 0.110 27.76 24.12 0.17 0.00 52.05 106.78 -54.73 Peak		MHz	dBu₹	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B		
4 0.125 70.14 23.64 0.18 0.00 93.96 105.66 -11.70 Peak	2	0.110 0.125	27.76 60.43	24.12 23.64	0.17 0.18	0.00 0.00	52.05 84.25	106.78 105.66	-54.73 -21.41	Peak Average	



#### 150kHz~30MHz



Site

3m chamber FCC PART15 BELOW 30M 3m 0080 Condition

Job No. Test Mode

Transmitting mode

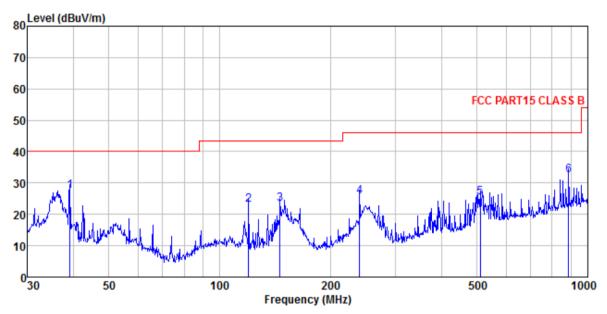
Test

est	Engineer:	Эку								
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBu∜	<u>d</u> B/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>		
1	0.203	11.46	22.20	0.22	0.00	33.88	101.46	-67.58	Peak	
2	0.440	13.59	20.89	0.27	0.00	34.75	94.74	-59.99	Peak	
	1.289	11.48	20.89	0.34	0.00	32.71	65.40	-32.69	Peak	
4	3.224	13.59	21.28	0.41	0.00	35.28	69.54	-34.26	Peak	
5	5.836	13.60	22.68	0.45	0.00	36.73	69.54	-32.81	Peak	
6	19 950	8 26	28 10	0.53	0 00	36 89	69 54	-32.65	Peak	



#### 30MHz~1GHz

#### Vertical:



Site

3m chamber FCC PART15 CLASS B 3m VERTICAL 0080 Condition

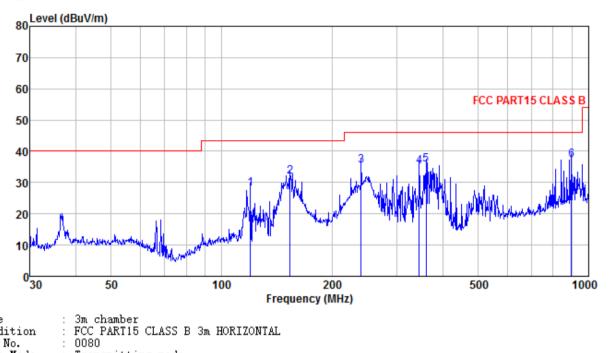
Transmitting mode

Job No. : 0080 Test Mode : Tran Test Engineer: Sky

	Freq	ReadA Level			Preamp Factor				Remark
	MHz	dBu₹	dB/m	<u>dB</u>	dB	dBuV/m	dBuV/m	<u>dB</u>	
1 2 3 4 5	39.162 119.856 145.861 239.987 510.044 887.610	38.61 40.84 39.23 32.52	12.48 10.23 14.09 18.79	1.36 1.54 2.07 3.35	30.05 29.57 29.43 29.56 29.30 29.11	22.88 23.18 25.83 25.36	43.50 43.50 46.00 46.00	-20.62 -20.32 -20.17 -20.64	QP QP QP QP



#### Horizontal:



Site

Condition

Job No.

Transmitting mode Skv Test Mode

Test Engineer

320	Engineer.	JKy							
		Read	Antenna	Cable	Preamp		Limit	Over	
	Frea	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	dB7m		dB	dBu777m	dBu777m	dB	
	11112	шич	ш/ ж	ш	ш	шич/ ж	abav, m	ш	
1	119.856	43.67	12.48	1.36	29.57	27, 94	43, 50	-15.56	ΩP
			10.42						
2	239. 987				29.56				
4	345.595	46.22	16.20	2.60	29.75	35.27	46.00	-10.73	QP
5	360.448	46.22	16.43	2.67	29.69	35.63	46.00	-10.37	QP
6	896.997	38.48	23.05	4.83	29.10	37.26	46.00	-8.74	QΡ

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

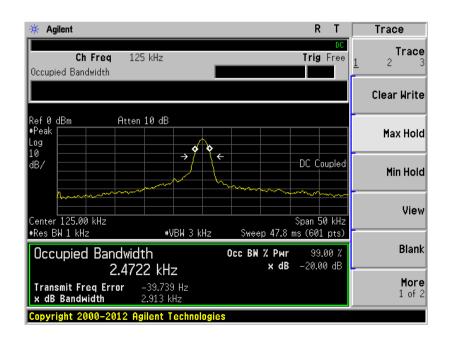


## 7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.215					
Test Method:	ANSI C63.10: 2013					
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

#### **Measurement Data**

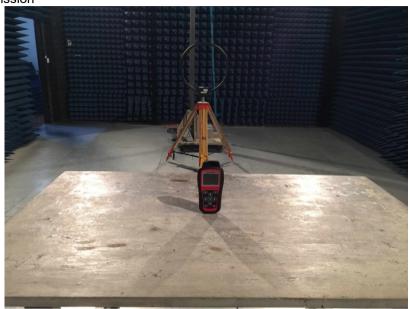
Test frequency	20dB bandwidth(KHz)	Result
125KHz	2.913	Pass

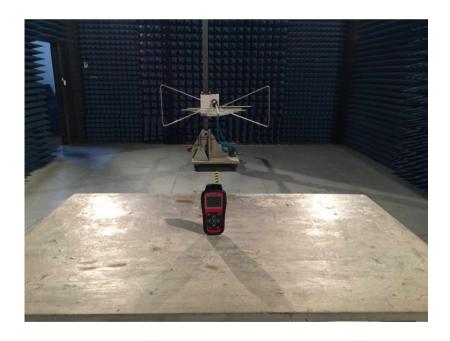




# 8 Test Setup Photo

Radiated Emission







Conducted Emission



# 9 EUT Constructional Details

Reference to the test report No. GTS201610000080E01

-----End-----