# **FCT**通测检测 TESTING CENTRE TECHNOLOGY **TEST REPORT** FCC ID: TUVDS-2491 **Product: Wireless Gaming Mouse** Model No.: DS-2491 Additional Model: 21452 Trade Mark: N/A Report No.: TCT160513E005 Issued Date: May 24, 2016 Issued for: Eastern Times Technology Co., Itd Building D, Nan An Industry Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China. Issued By: Shenzhen Tongce Testing Lab. 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China TEL: +86-755-27673339 FAX: +86-755-27673332

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# 1. Test Certification

Product:	Wireless Gaming	g Mouse		
Model No.:	DS-2491	$(\mathbf{c})$	$(\mathcal{S})$	G
Additional Model:	21452			C
Applicant:	Eastern Times Te	echnology Co., Itd		
Address:	<b>e</b> 1	An Industry Area, Yo Guangdong, China.	uganpu Village	, Fenggang Town,
Manufacturer:	Eastern Times Te	echnology Co., Itd		(LC
Address:		An Industry Area, Yo Guangdong, China.	uganpu Village	, Fenggang Town,
Date of Test:	May 13 – May 23	3, 2016	)	
Applicable Standards:	FCC CFR Title 4	7 Part 15 Subpart C	Section 15.249	9

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	SKY Luo	Date:	May 23, 2016	
Reviewed By:	Zonthan	Date:	May 24, 2016	
Approved By:	Joe Zhou TomSin Tomsin	Date:	May 24, 2016	Ś



# 2. Test Result Summary

Requ	lirement		CFR 47 S	ection		Result	
Antenna	Requirement		§15.20	03		PASS	
	ine Conducted		§15.20	07		N/A	
	Strength of amental		§15.249	) (a)		PASS	
Spurious	s Emissions	§15	§2.10 .249 (a) (d		S	PASS	<b>C</b>
Ban	d Edge	§1	§2.10  5.249 (d)			PASS	
20dB Occup	bied Bandwidth		§2.104 §15.215			PASS	
	item meets the require em does not meet the						(C)
3. N/A: Test c	ase does not apply to sult judgment is decid	the test object	ct.	rd.			
						Page	e 4 of 20

# 3. EUT Description

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Product Name:	Wireless Gaming Mouse
Model :	DS-2491
Additional Model:	21452
Trade Mark:	N/A
<b>Operation Frequency:</b>	2408-2474MHz
Channel Separation:	2MHz
Number of Channel:	34
Modulation Technology:	FSK
Antenna Type:	PCB print antenna
Antenna Gain:	0.11dBi
Power Supply:	DC 3.0V(AA Battery * 2)
Remark:	All models above are identical in interior structure, electrical circuits and components, and just differ in look and model for the marketing requirement.

# **Operation Frequency Each of Channel**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	10	2428 MHz	20	2448 MHz	30	2468 MHz
1	2410 MHz	11	2430 MHz	21	2450 MHz	31	2470 MHz
2	2412 MHz	12	2432 MHz	22	2452 MHz	32	2472 MHz
3	2414 MHz	13	2434 MHz	23	2454 MHz	33	2474 MHz
4	2416 MHz	14	2436 MHz	24	2456 MHz		
5	2418 MHz	15	2438 MHz	25	2458 MHz		KC)
6	2420 MHz	16	2440 MHz	26	2460 MHz		
7	2422 MHz	17	2442 MHz	27	2462 MHz		
6 8	2424 MHz	18	2444 MHz	28	2464 MHz	S)	(20)
9	2426 MHz	19	2446 MHz	29	2466 MHz		<u> </u>

### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2408MHz
The middle channel	2440MHz
The Highest channel	2474MHz

Operating Environment:			
Temperature:	25.0 °C		
Humidity:	54 % RH	$(\mathbf{c}^{*})$	
Atmospheric Pressure:	1010 mbar		
Test Mode <sup>.</sup>			

4.

		Keep the EUT in continuous transmitting by select channel
--	--	---

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

# 4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1			

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.







# 5. Facilities and Accreditations

# 5.1.Facilities

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

• FCC - Registration No.: 572331

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Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

• CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

# 5.2. Location

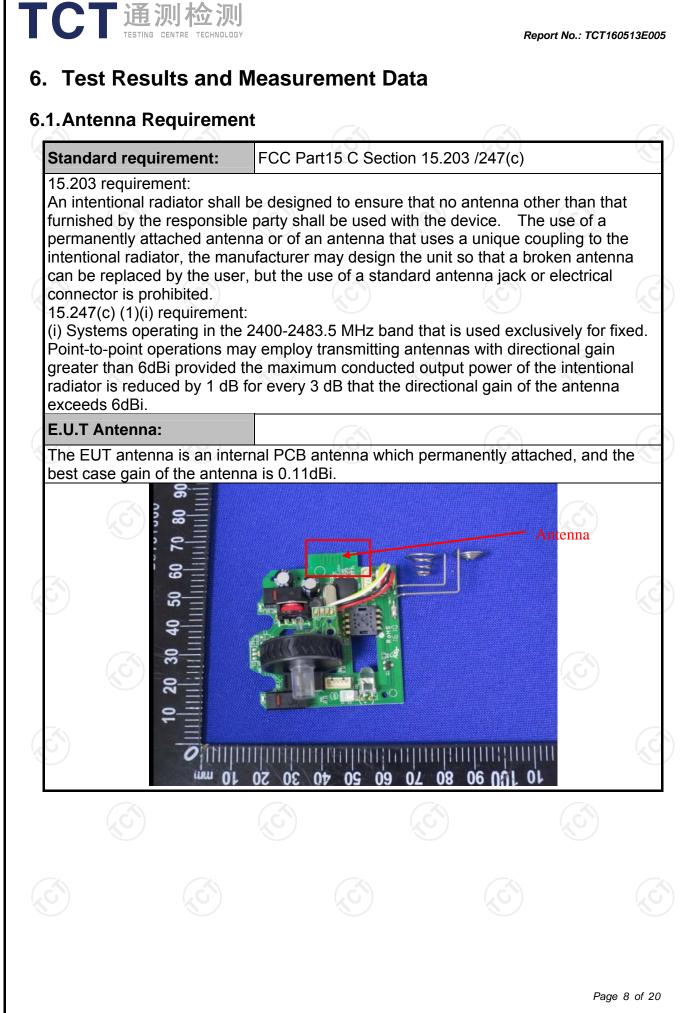
Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China Tel: 86-755-36638142

# 5.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



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6.2.Conducted Emission

Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
	Frequency range	Limit (	dBuV)		
	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Refere	nce Plane	1201		
Test Setup:	AUX         Equipment         Equipment         Test table/Insulation plate         Remark:         E.U.T: Equipment Under Test         LISN: Line Impedence Stabilization         Test table height=0.8m	J.T Ine	lter – AC power		
Test Mode:	Transmitting mode with	n modulation	Q		
Test Procedure:	<ul> <li>power through a line (L.I.S.N.). This pro- impedance for the m</li> <li>2. The peripheral device power through a LI coupling impedance refer to the block photographs).</li> <li>3. Both sides of A.C. conducted interferent emission, the relative the interface cables</li> </ul>	<ol> <li>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.</li> <li>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>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 C63.4: 2009 on conducted measurement.</li> </ol>			
Test Result:	The EUT is powered b this test item is not app	y DC 3.0V from 2			

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# **6.3. Radiated Emission Measurement**

### 6.3.1. Test Specification

Test Requirement:	FCC Part15	5 C Section	n 15.209/	Part 2 J	Section 2.1053	
Test Method:	ANSI C63.4	1: 2014 and	d ANSI C	63.10:20	13	
Frequency Range:	9 kHz to 25	GHz	2			
Measurement Distance:	3 m	X	9		No.	
Antenna Polarization:	Horizontal &	& Vertical				
	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Peak	1MHz	10Hz	Average Value	
imit/Field strength of the	Freque	ency	Limit (dBu	//m @3m)	Remark	
Limit(Field strength of the			94.		Average Value	
fundamental signal):	2400MHz-24	483.5MHZ	114	.00	Peak Value	
	Fraguanay				Remark	
	Frequency 0.009-0.490		Limit (dBuV/m @3m) 2400/F(KHz)		Quasi-peak Value	
	0.490-1.705		24000/F(KHz)		Quasi-peak Value	
	1.705		3	1 1	Quasi-peak Value	
	30MHz-8		40	-	Quasi-peak Value	
Limit(Spurious Emissions):	88MHz-2		43		Quasi-peak Value	
	216MHz-9	960MHz	46	.0	Quasi-peak Value	
	960MHz	-1GHz	54.0		Quasi-peak Value	
	Above <sup>-</sup>	1647	54.0		Average Value	
		_	74	-	Peak Value	
Limit (band edge) :	bands, exce least 50 dB general rae whichever i	ept for har below the diated em s the lesse	monics, s level of t ission lir r attenua	shall be a he funda nits in S tion.	cified frequency attenuated by a mental or to the Section 15.209	
Test Procedure:	<ul> <li>whichever is the lesser attenuation.</li> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four 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.</li> </ul>					

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		<ul> <li>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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ul>
		For radiated emissions below 30MHz Distance = 3m Computer Pre - Amplifier FUT Turn table Ground Plane 30MHz to 1GHz
Test setup:		EUT Tum But Cound Plane
		Above 1GHz
<u>Hotline: 400-66</u>	11-140 Tel: 86-	Page 11 of 20 755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

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### 6.3.2. Test Instruments

5.2. Test instrument	. ( , C )			$(\mathbf{z}\mathbf{G})$	
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016	
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016	
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016	
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016	
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016	
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016	
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016	
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sep. 13, 2016	
Coax cable	ТСТ	RE-low-01	N/A	Sep. 11, 2016	
Coax cable	тст	RE-high-02	N/A	Sep. 11, 2016	
Coax cable	тст	RE-low-03	N/A	Sep. 11, 2016	
Coax cable	тст	RE-high-04	N/A	Sep. 11, 2016	
Antenna Mast	CCS	CC-A-4M	S) N/A	N/A	
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A	

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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### 6.3.3. Test Data

### Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2408	96.36(PK)	Н	114/94	-17.64
2408	91.35(AV)	H C	114/94	-2.65
2440	93.24(PK)	Н	114/94	-20.76
2440	88.67(AV)	Н	114/94	-5.33
2474	94.84(PK)	(G)H	114/94	-19.16
2474	87.54(AV)	Н	114/94	-6.46
2408	83.97(PK)	V	114/94	-30.03
2408	77.24(AV)	V	114/94	-16.76
2440	80.65(PK)	V	114/94	-33.35
2440	75.97(AV)	V	114/94	-18.03
2474	81.65(PK)	V	114/94	-32.35
2474	75.94(AV)	V	114/94	-18.06

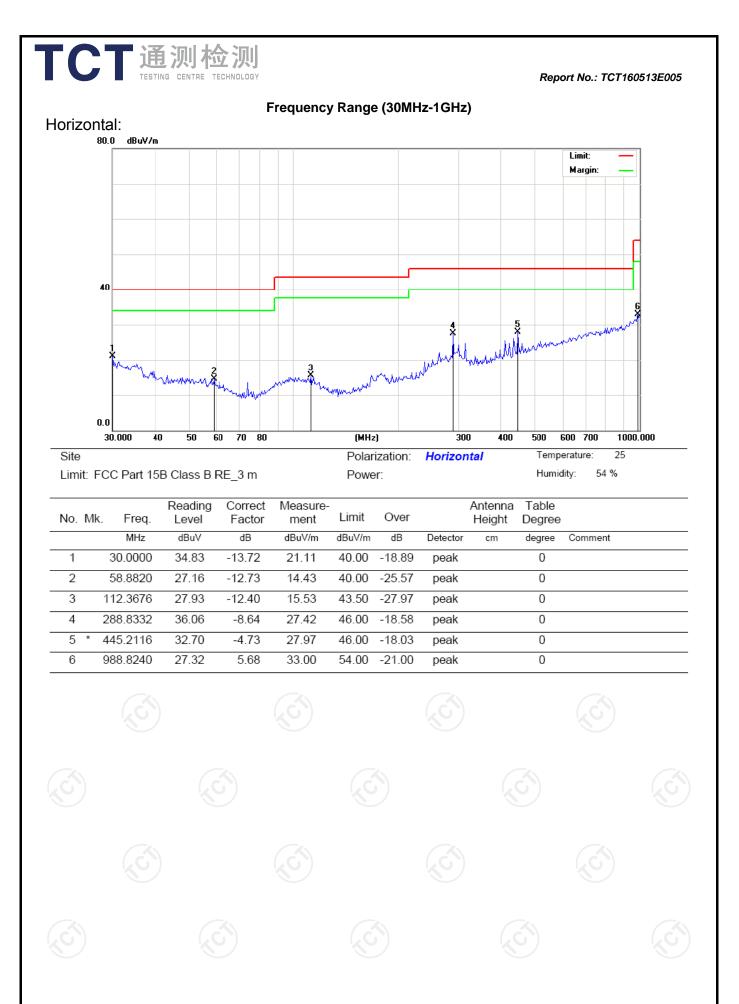
### **Spurious Emissions**

### Frequency Range (9 kHz-30MHz)

1	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
3			
		(c) <u>-</u> (c)	-

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

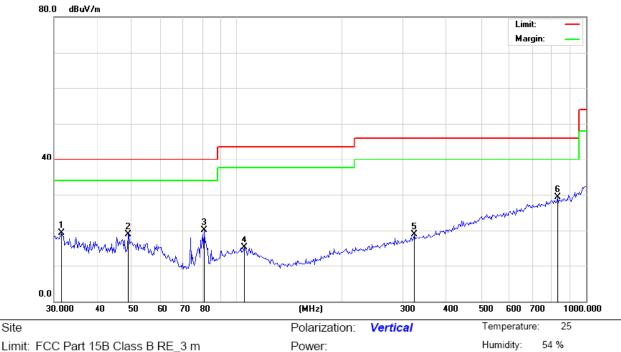


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### Vertical:

T



Limit: FCC Part 15B Class B RE\_3 m

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.5563	32.83	-13.53	19.30	40.00	-20.70	peak		0	
2		48.9153	31.00	-12.08	18.92	40.00	-21.08	peak		0	
3		80.6586	36.25	-16.13	20.12	40.00	-19.88	peak		0	
4		105.0400	26.89	-11.71	15.18	43.50	-28.32	peak		0	
5		321.3783	26.64	-7.81	18.83	46.00	-27.17	peak		0	
6	* {	830.7362	27.51	1.84	29.35	46.00	-16.65	peak		0	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.

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				Above	1GHz				
				Low channe	I: 2408 MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2387.50	Н	56.32		-4.20	52.12		74.00	54.00	-1.88
2387.50	Н		48.24	-4.20	У	44.04	74.00	54.00	-9.96
4816.00	Н	47.04		-3.94	43.10		74.00	54.00	-10.9
7224.00	Н	44.71		0.52	45.23		74.00	54.00	-8.77
	( <del>4 .</del>					~~			
			2			(GT)			
2387.50	V	54.78		-4.20	50.58		74.00	54.00	-3.42
2387.50	V		45.74	-4.20		41.54	74.00	54.00	-12.46
4816.00	V	48.18		-3.94	44.24		74.00	54.00	-9.76
7224.00	V	44.37		0.52	44.89		74.00	54.00	-9.11
				%	//				

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			N	liddle chann	el: 2440M	Hz			
Fraguanay	Ant Dol	Peak	AV	Correction	Emissio	on Level	Peak limit	A)/ limit	Morgin
Frequency (MHz)	H/V	reading	reading	Factor	Peak			(dBµV/m)	Margin (dB)
(11112)	1 I/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ubµv/m)	(ubµv/m)	(ub)
4880.00	Н	48.79		-3.98	44.81		74.00	54.00	-9.19
7320.00	Н	46.14		0.57	46.71		74.00	54.00	-7.29
					x				
G`}		(5_`)		(20	5)		(G)		
					/				
4000.00		40.00	1	2.00	44.04		74.00	F4 00	0.40
4880.00	V	48.82		-3.98	44.84		74.00	54.00	-9.16
7320.00	V	47.35		0.57	47.92		74.00	54.00	-6.08
			<u></u>	)		0 <del>1</del>			

			ł	ligh channe	el: 2474 MI	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2486.58	Н	49.20		-2.38	46.82		74.00	54.00	-7.18
2486.58	H		41.74	-2.38		39.32	74.00	54.00	-16.68
4948.00	K H	50.98		-3.98	47.00	<u>S</u> -	74.00	54.00	-7.0
7422.00	Н	46.31		0.57	46.88		74.00	54.00	-7.12
TAN N				(	2				
2483.51	V	48.53		-2.38	46.15		74.00	54.00	-7.85
2483.51	V		41.06	-2.38		38.68	74.00	54.00	-15.32
4948.00	V	50.94		-3.98	46.37		74.00	54.00	-7.63
7422.00	V	46.27		0.57	45.85		74.00	54.00	-8.15
				A					
Note:			N.			2		KU)	

### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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### **Band Edge Requirement**

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Low chann	el: 2408 M	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2400	Н	48.77	/	-4.2	44.57		74.00		-29.43
2400	Н		38.79	-4.2		34.59		54.00	-19.41
				- A.					
2400	V	48.60	(	-4.2	44.40		74.00		-29.60
2400	V		37.95	-4.2		33.75		54.00	-20.25

### low channel: 2474MHz

Low chann	el: 24/4M	Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2483.5	H	50.51		-4.2	46.31		74.00	(	-27.69
2483.5			40.53	-4.2		36.33		54.00	-17.67
			<						
2483.5	V	48.57		-4.2	44.37		74.00		-29.63
2483.5	V	-	39.05	-4.2		34.85		54.00	-19.15
			/		<u>0</u>		KO /		

### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak/Average)(dB $\mu$ V/m)-(Peak/Average) limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



# 6.4.20dB Occupied Bandwidth

# 6.4.1. Test Specification

TCT通测检测 TECTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 2.1049	15.215(c)/ Par	t 2 J Section
Test Method:	ANSI C63.10: 2013		
Limit:	N/A	$(\mathcal{O})$	$\langle \mathcal{C} \rangle$
	<ol> <li>According to the for position between the set to the maximule EUT transmit control in the following 20dB Bandwidth mean span = approxime bandwidth, centered on a hop dB bandwidth; VBW≥RBW; Sweet peak; Trace = max</li> <li>Measure and record</li> </ol>	ne artificial ante im power settir nuously. spectrum ana neasurement. nately 2 to 3 ping channel; F ep = auto; De hold.	nna and the EUT. ng and enable the alyzer settings for times the 20 dB RBW≥1% of the 20 etector function =
Test setup:	Spectrum Analyzer	EUT	
Test Mode:	Transmitting mode wit	h modulation	N.
Test results:	PASS		

### 6.4.2. Test Instruments

6	RF Test Room					
0	Equipment	Manufacturer	Model	Serial Number	Calibration Due	
	Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016	

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

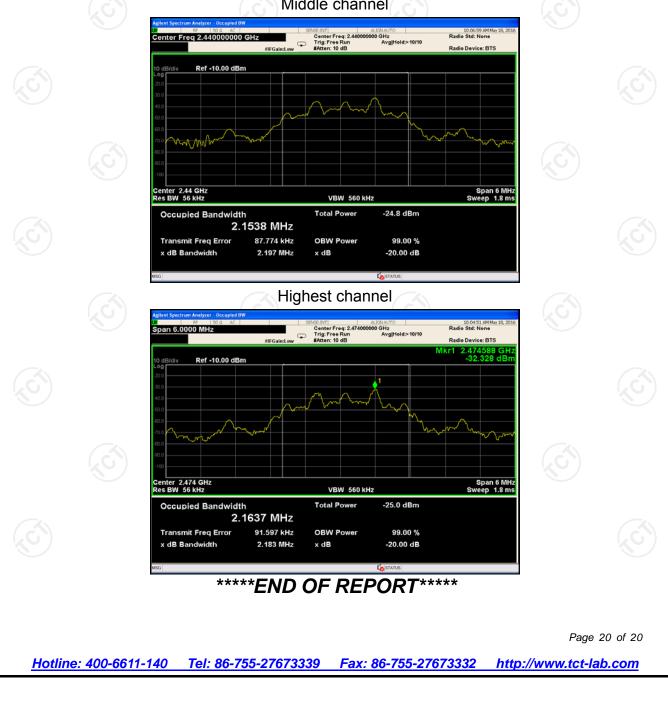


### 6.4.3. Test data

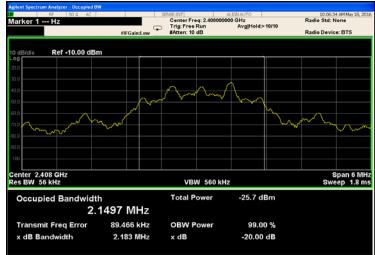
	Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion	
8	Lowest	2183	6	PASS	
	Middle	2197		PASS	
	Highest	2183		PASS	

Test plots as follo

Test plots as follow	NS:						
						Page	19 of 20
Hotline: 400-6611-	<u>-140 Tel: 86</u>	6-755-27673	339 Fax:	<u>86-755-2767</u>	<u>3332 http</u>	://www.tct-la	



### Lowest channel



### Middle channel

Report No.: TCT160513E005