TEST REPORT

ГСТ

FCC ID: 2ACMYADR42R Product: NVR Model No.: ADR42R

Additional Model No.: Nxyzw + 1~16×IPCxyz (x, y, z, w refer to 0~9)

Trade Mark: N/A Report No.: TCT180604E003 Issued Date: Jun. 08, 2018

Issued for:

Atoms Labs LLC 2670 Firewheel Dr. Suite D, Flower Mound, Texas, 75028 United States

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339 FAX: +86-755-27673332

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Report No.: TCT180604E003

1. Test Certification

Product:	NVR O	
Model No.:	ADR42R	
Additional Model:	Nxyzw + 1~16×IPCxyz (x, y, z, w refer to 0~9)	
Trade Mark:	N/A	
Applicant:	Atoms Labs LLC	
Address:	2670 Firewheel Dr. Suite D, Flower Mound, Texas, 75028 United States	
Manufacturer:	HUAYI ELECTRONICS., LTD	
Address:	3rd Floor, No. 26, Jinheng 2nd Road, Jinding Technology & Industrial Park, Xiangzhou, Zhuhai, Guangdong, P. R. China	
Date of Test:	Jun. 05, 2018 – Jun. 07, 2018	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04	

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:	Jerry Lie	Date:	Jun. 07, 2018
	Jerry Xie	_	Ś
Reviewed By:	Beny zhao	Date:	Jun. 08, 2018
	Beryl Zhao		
Approved By:	Jomsm	Date:	Jun. 08, 2018
	Tomsin		(C)
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2. Test Result Summary

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Requirement	CFR 47 Section	Result	
Antenna requirement	§15.203/§15.247 (c)	PASS	
AC Power Line Conducted Emission	§15.207	PASS	
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS	
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
Power Spectral Density	§15.247 (e)	PASS	
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS	
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
lata			

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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Report No.: TCT180604E003

3. EUT Description

Product:	NVR	K
Model No.:	ADR42R	
Additional Model:	Nxyzw + 1~16×IPCxyz (x, y, z, w refer to 0~9)	
Trade Mark:	N/A	
Hardware Version:	V120	
Software Version:	V2.8.3.3	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))	
Channel Separation:	5MHz	
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)	
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)	
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)	
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps	
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps	
Data speed (IEEE 802.11n):	Up to 150Mbps	
Antenna Type:	Integral antenna	
Antenna Gain:	5dBi	
Power Supply:	AC 120V/60Hz	1
Adapter:	Adapter Information: Model: JYH36-1202000-BA Input: AC 100-240V, 50/60Hz, 1.0A Output: DC 12V, 2.0A	
Remark:	All models above are identical in interior structure, electrical circuits and components, and just appearance are different for the marketing requirement.	

ТСТ

Operation Frequency each of channel For 802.11b/g/n(HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		(XC)

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	2	4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		

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:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.<u>11n (HT40)</u>

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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4. Genera Information

4.1. Test environment and mode

Operating Environment:

Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	

Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting
	by select channel and modulations(The
	value of duty cycle is 98.46%)

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. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

with modulation

2. According to ANSI C63.10 standards, the test results are both the "worst case" and

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13.5Mbps 1	p" 1Mbps for or 802.11(H4 power setting	0). Duty cycl	le setting du	ring the tran	smission is	98.5% with	

ТСТ

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
/	/	/	/	/

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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 645098

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

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

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(<1G)	±3.92dB	
5	All emissions, radiated(>1G)	±4.28dB	
6	Temperature		
7	Humidity	±1.0%	

6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WIFI antenna is integral antenna which permanently attached, and the best case gain of the antenna is 5dBi.







Invalid ANT



6.2. Conducted Emission

6.2.1. Test Specification

TCT

Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz						
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (0 Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50				
Test Setup:	40cm E.U.T AC powe Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m	EMI Receiver	— AC power				
Test Mode:	Charging + transmittin	g with modulation					
Test Procedure:	 The E.U.T is 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. 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). 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. 						
	PASS						

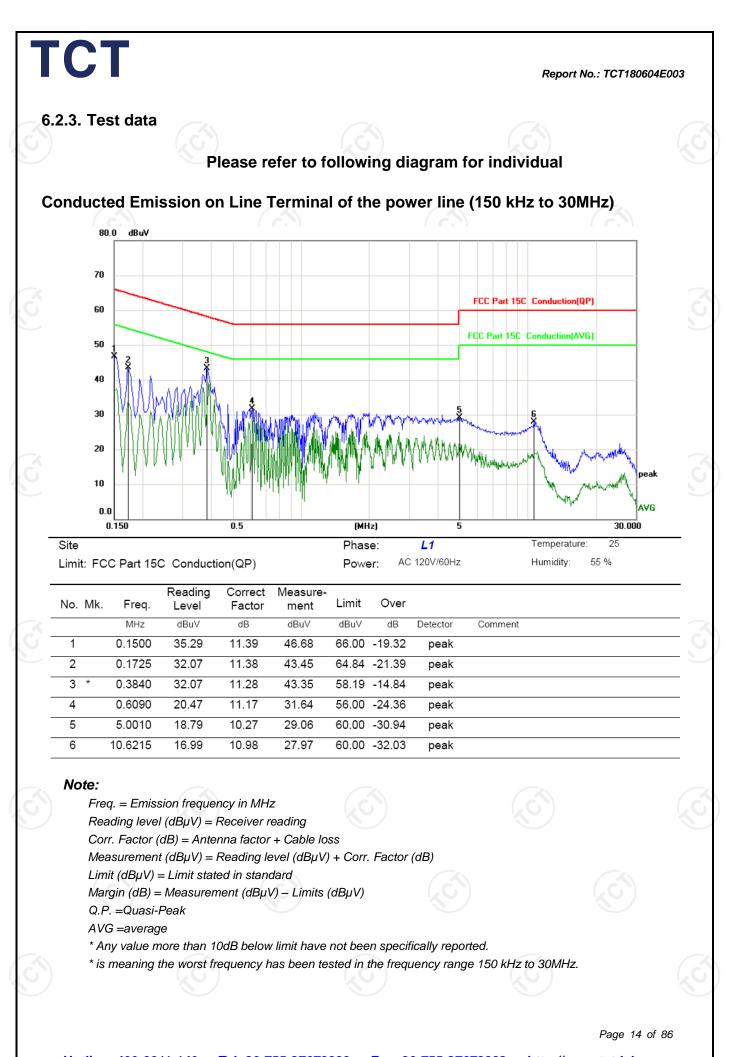


6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	R&S	ESPI	101401	Sep. 27, 2018				
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018				
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018				
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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ТСТ Report No.: TCT180604E003 Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) dBu¥ 80.0 70 FCC Part 15C Conduction(QP) 60 FCC Part 15C Conduction(AVG) 50 40 30 20 10 AVG 0.0 0.150 0.5 (MHz) 5 30.000 Site Phase: Ν Temperature: 25 AC 120V/60Hz Humidity: 55 % Limit: FCC Part 15C Conduction(QP) Power: Reading Correct Measure-Limit Over М Erc No

	No. Mk.	Freq.	Level	Factor	ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
	1	0.1545	33.94	11.39	45.33	65.75	-20.42	peak		
	2	0.1770	30.39	11.38	41.77	64.63	-22.86	peak		
	3 *	0.3840	30.80	11.28	42.08	58.19	-16.11	peak		
	4	0.9375	17.45	11.00	28.45	56.00	-27.55	peak		
j	5	1.9230	16.93	11.34	28.27	56.00	-27.73	peak		
	6	10.9995	16.83	10.99	27.82	60.00	-32.18	peak		

Note:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average *Any value more than 10dB below limit have not been specifically reported.

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Maximum Conducted (Average) Output Power

6.3.1. Test Specification

TCT

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
Test Method:	KDB 558074	
Limit:	30dBm	
Test Setup:	Spectrum Analyzer EUT	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 	
Test Result:	PASS	

6.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

6.4. Emission Bandwidth

6.4.1. Test Specification

TCT

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074					
Limit:	>500kHz					
Test Setup:						
	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 					
Test Result:	PASS					

6.4.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018			

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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6.5. Power Spectral Density

6.5.1. Test Specification

TCT

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018			
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018			
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 27, 2018			

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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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

ТСТ

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB a 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



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http://www.tct-lab.com

6.6.2. Test Instruments

Hotline: 400-6611-140

Tel: 86-755-27673339

Fax: 86-755-27673332

RF Test Room											
Equipment	Manufacturer	Model	Serial Number	Calibration Due							
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018							
RF Cable (9KHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018							
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018							

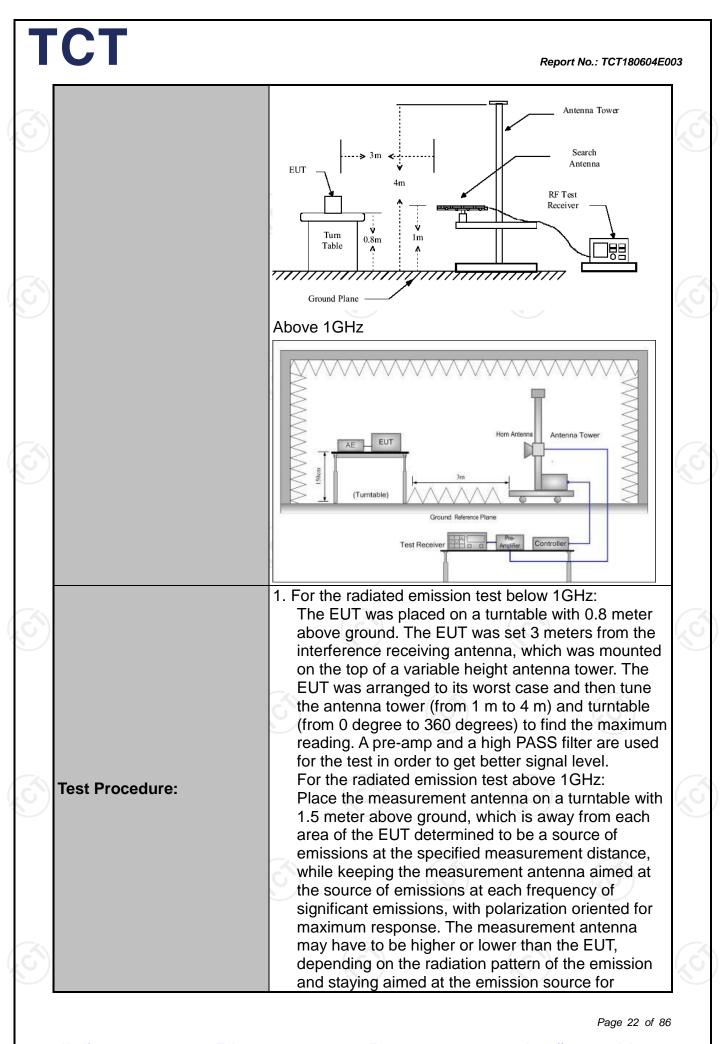
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

TCT

Test Requirement:	FCC Part15	C Sectior	15.209			
Test Method:	ANSI C63.10	0: 2013	$\langle \mathbf{G} \rangle$		($\langle \mathcal{O} \rangle$
Frequency Range:	9 kHz to 25 (GHz				
Measurement Distance:	3 m	-				
Antenna Polarization:	Horizontal &	Vertical		(\mathbf{G})		
Operation mode:	Transmitting	mode wit	h modula [.]			
	Frequency	Detector	RBW	VBW		Remark
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz			1kHz 30kHz		si-peak Value si-peak Value
	30MHz-1GHz	Quasi-peal		300KHz		si-peak Value
	Above 1GHz	Peak	1MHz	3MHz		eak Value
		Peak	1MHz	10Hz	Ave	erage Value
	Frequen	-	Field Str (microvolts	s/meter)		asurement
	0.009-0.4		2400/F(24000/F			<u>300</u> 30
	1.705-3		30		30	
	30-88	1	100			3
	88-216		150		3	
Limit:	216-96		200		3	
	Above 9	160	500			3
	Frequency		d Strength ovolts/meter)	Measure Distan (mete	ice	Detector
		_	500		13)	Average
	Above 1GH:	2	5000		3Average3Peak	
Test setup:	For radiated	stance = 3m		Pre -A	Compute	
(¿G`)		5)		(\hat{O})		
						Page 21 of 8



		me ma ant res abo 3. Corr Res	asurement a ximizes the tricted to a r ove the grou rected Read ad Level - P	emissions. ion for maxin range of heig ind or refere ling: Antenna reamp Factor	vation shall The measur mum emiss ghts of from nce ground a Factor + 0 or = Level	be that which rement ions shall be 1 m to 4 m	
3		of t low leve me det 5. Use (1) (2) (3)	the EUT mean ver than the el will be represented the followin Span shall ver emission be Set RBW=1 Sweep = au max hold; Set RBW = for peak me	asured by th applicable li ported. Othe will be repeat ported. ag spectrum wide enough ing measure 00 kHz for f ito; Detector 1 MHz, VBV easurement.	e peak determit, the peak rwise, the eated using the analyzer set to fully cap ed; < 1 GHz; V function = p V= 3MHz fo	ector is 3 dB ak emission emission ne quasi-peak ettings: oture the BW ≹BW; peak; Trace = r f □ 1 GHz	
		dut who the tran	y cycle is no en duty cycl minimum tr nsmitter is o	o less than 9 e is less tha ansmission n and is trar	n 98 percer duration ov nsmitting at	VBW $\geq 1/T$, nt where T is er which the its maximum	
Test	: results:	dut who the tran	y cycle is no en duty cycl minimum tr nsmitter is o	o less than 9 e is less tha ansmission n and is trar	8 percent. ` n 98 percer duration ov nsmitting at	VBW $\geq 1/T$, nt where T is er which the	
Test	results:	dut who the trar pov	y cycle is no en duty cycl minimum tr nsmitter is o	o less than 9 e is less tha ansmission n and is trar	8 percent. ` n 98 percer duration ov nsmitting at	VBW $\geq 1/T$, nt where T is er which the its maximum	-
Test	results:	dut who the trar pov	y cycle is no en duty cycl minimum tr nsmitter is o	o less than 9 e is less tha ansmission n and is trar	8 percent. ` n 98 percer duration ov nsmitting at	VBW $\geq 1/T$, nt where T is er which the its maximum	
Test	results:	dut who the trar pov	y cycle is no en duty cycl minimum tr nsmitter is o	o less than 9 e is less tha ansmission n and is trar	8 percent. ` n 98 percer duration ov nsmitting at	VBW $\geq 1/T$, nt where T is er which the its maximum	
Test	results:	dut who the trar pov	y cycle is no en duty cycl minimum tr nsmitter is o	o less than 9 e is less tha ansmission n and is trar	8 percent. ` n 98 percer duration ov nsmitting at	VBW $\geq 1/T$, nt where T is er which the its maximum	

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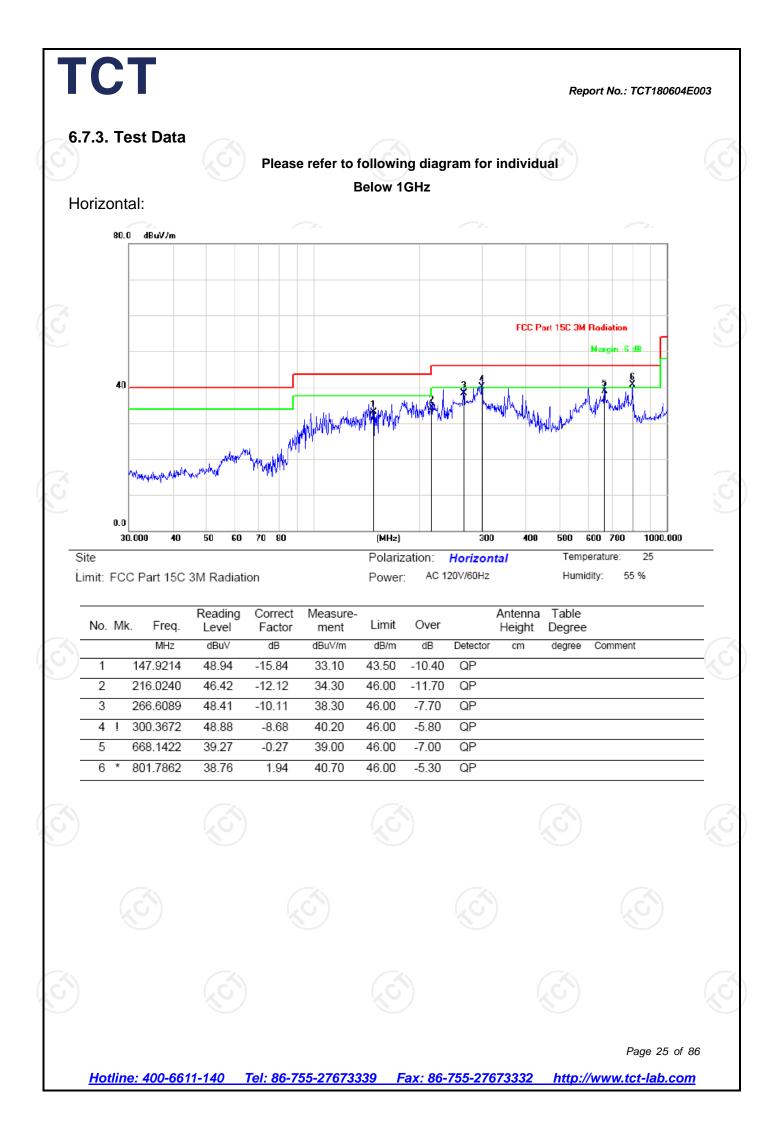
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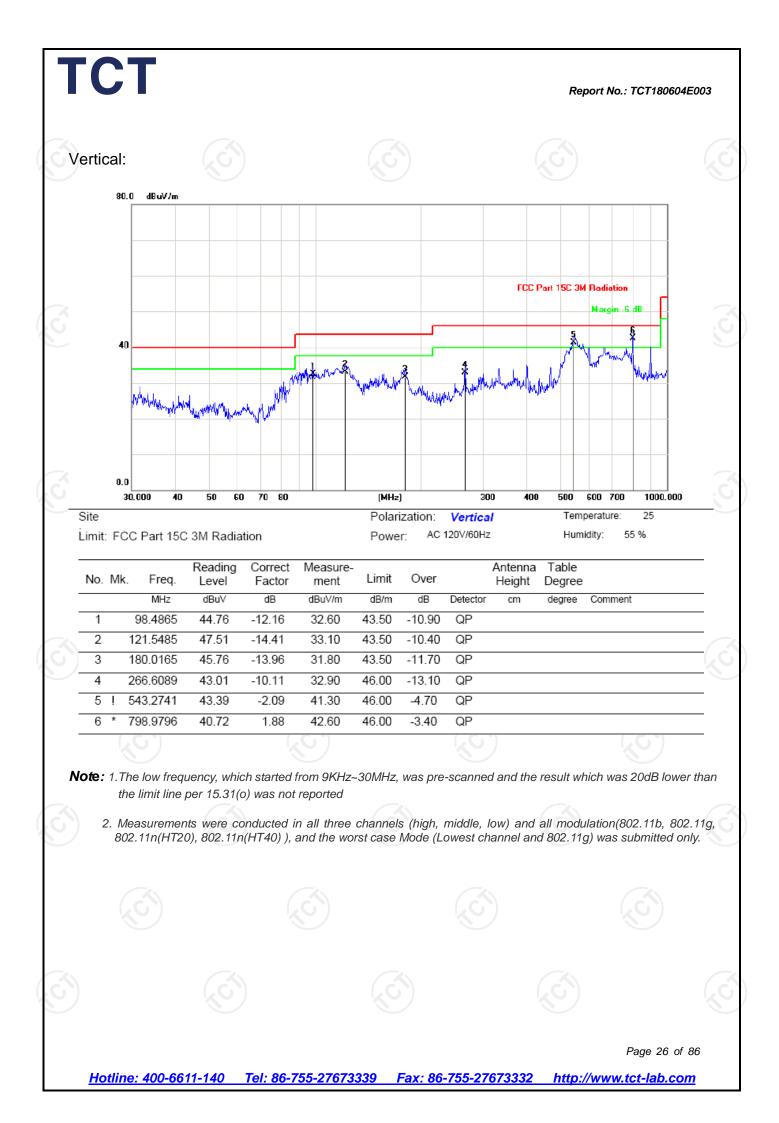
6.7.2. Test Instruments

	Radiated Em	ission Test Si	te (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	ТСТ	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018
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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ТСТ

Test Result of Radiated Spurious at Band edges

	(.c.)		Modulation Type: 802.11b Low channel: 2412 MHz					
		Low				F		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)		
2310	Н	45.90	-4.20	41.70	74.00	54.00		
2377.38	Н	48.13	-4.10	44.03	74.00	54.00		
2390	Н	53.47	-3.94	49.53	74.00	54.00		
2310	V	44.25	-4.20	40.05	74.00	54.00		
2377.38	V	54.78	-4.10	50.68	74.00	54.00		
2390	V	55.06	-3.94	51.12	74.00	54.00		
	(.G)	Modu	lation Type: 80	2.11b	(G)			
		High	channel: 2462	MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)		
2483.5	Н	50.46	-3.60	46.86	74.00	54.00		
2487.09	Н	47.17	-3.50	43.67	74.00	54.00		
2500	Н	45.04	-3.34	41.70	74.00	54.00		
2483.5	V	54.63	-3.60	51.03	74.00	54.00		
2487.09	V	47.82	-3.50	44.32	74.00	54.00		
2500	N	42.39	-3.34	39.05	74.00	54.00		
		Modu	lation Type: 80	2.11α				
		Low	channel: 2412	MHz				
Frequency (MHz)	Ant. Pol. H/V	Low Peak reading (dBµV)			Peak limit (dBµV/m)	AV limit (dBµV/m)		
		Peak reading	channel: 2412 Correction Factor	MHz Peak Final Emission				
(MHz)	H/V	Peak reading (dBµV)	channel: 2412 Correction Factor (dB/m)	MHZ Peak Final Emission Level	(dBµV/m)	(dBµV/m)		
(MHz) 2310	H/V H H H	Peak reading (dBµV) 43.12	channel: 2412 Correction Factor (dB/m) -4.20	MHz Peak Final Emission Level 38.92	(dBµV/m) 74.00	(dBµV/m) 54.00		
(MHz) 2310 2388.96	H/V H H	Peak reading (dBμV) 43.12 50.84	channel: 2412 Correction Factor (dB/m) -4.20 -4.12	MHz Peak Final Emission Level 38.92 46.72	(dBµV/m) 74.00 74.00	(dBµV/m) 54.00 54.00		
(MHz) 2310 2388.96 2390	H/V H H H	Peak reading (dBµV) 43.12 50.84 53.36	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94	MHz Peak Final Emission Level 38.92 46.72 49.42	(dBµV/m) 74.00 74.00 74.00	(dBµV/m) 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310	H/V H H H V	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39	(dBµV/m) 74.00 74.00 74.00 74.00	(dBµV/m) 54.00 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96	H/V H H H V V	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g	(dBµV/m) 74.00 74.00 74.00 74.00 74.00	(dBµV/m) 54.00 54.00 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96	H/V H H H V V	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80 channel: 2462	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g MHz	(dBµV/m) 74.00 74.00 74.00 74.00 74.00	(dBµV/m) 54.00 54.00 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96	H/V H H H V V	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g	(dBµV/m) 74.00 74.00 74.00 74.00 74.00	(dBµV/m) 54.00 54.00 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96 2390 Frequency	H/V H H V V V V	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu High Peak reading	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80 channel: 2462 Correction Factor	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g MHz Peak Final Emission	(dBµV/m) 74.00 74.00 74.00 74.00 74.00 74.00 Peak limit	(dBµV/m) 54.00 54.00 54.00 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96 2390 Frequency (MHz)	H/V H H V V V V Ant. Pol. H/V	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu High Peak reading (dBµV)	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80 channel: 2462 Correction Factor (dB/m)	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g MHz Peak Final Emission Level	(dBµV/m) 74.00 74.00 74.00 74.00 74.00 74.00 Peak limit (dBµV/m)	(dBµV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96 2390 2390 Frequency (MHz) 2483.5	H/V H H V V V V Ant. Pol. H/V H	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu High Peak reading (dBµV) 52.56	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80 channel: 2462 Correction Factor (dB/m) -3.60	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g MHz Peak Final Emission Level 48.96	(dBµV/m) 74.00 74.00 74.00 74.00 74.00 74.00 Peak limit (dBµV/m) 74.00	(dBµV/m) 54.00 54.00 54.00 54.00 54.00 54.00 AV limit (dBµV/m) 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96 2390 2390 Frequency (MHz) 2483.5 2487.59	H/V H H V V V V Ant. Pol. H/V H H	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu High Peak reading (dBµV) 52.56 50.49	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80 channel: 2462 Correction Factor (dB/m) -3.60 -3.52	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g MHz Peak Final Emission Level 48.96 46.97	(dBµV/m) 74.00 74.00 74.00 74.00 74.00 74.00 Peak limit (dBµV/m) 74.00 74.00	(dBµV/m) 54.00 54.00 54.00 54.00 54.00 54.00 AV limit (dBµV/m) 54.00 54.00		
(MHz) 2310 2388.96 2390 2310 2388.96 2390 Frequency (MHz) 2483.5 2483.5 2487.59 2500	H/V H H V V V V Ant. Pol. H/V H H	Peak reading (dBµV) 43.12 50.84 53.36 45.69 49.24 54.33 Modu High Peak reading (dBµV) 52.56 50.49 46.34	channel: 2412 Correction Factor (dB/m) -4.20 -4.12 -3.94 -4.20 -4.12 -3.94 lation Type: 80 channel: 2462 Correction Factor (dB/m) -3.60 -3.52 -3.34	MHz Peak Final Emission Level 38.92 46.72 49.42 41.49 45.12 50.39 2.11g MHz Peak Final Emission Level 48.96 46.97 43.00	(dBµV/m) 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	(dBµV/m) 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00 54.00		

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			n Type: 802.11			
		LOW	Low channel: 2412 MHz			
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Factor (dB/m)	Emission	Peak limit (dBµV/m)	AV limit (dBµV/m)
2310	Н	46.61	-4.20	42.41	74.00	54.00
2388.01	Н	53.48	-4.10	49.38	74.00	54.00
2390	Н	54.93	-3.94	50.99	74.00	54.00
2310	V	48.25	-4.20	44.05	74.00	54.00
2388.01	V	54.37	-4.10	50.27	74.00	54.00
2390	V	55.79	-3.94	51.85	74.00	54.00
			n Type: 802.11			
		High	channel: 2462	MHz		
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
2483.5	Н	52.41	-3.60	48.81	74.00	54.00
2392.55	Н	51.83	-3.50	48.33	74.00	54.00
2500	Н	47.16	-3.34	43.82	74.00	54.00
2483.5	V	53.57	-3.60	49.97	74.00	54.00
2392.55	V	50.23	-3.50	46.73	74.00	54.00
2500	V	48.39	-3.34	45.05	74.00	54.00
requency	Ant. Pol.	Peak reading	channel: 2422 Correction	Peak Final	Peak limit	AV limit
(MHz)	H/V	(dBµV)	Factor (dB/m)	Emission Level	(dBµV/m)	(dBµV/m)
2310	Н	50.45	-4.20	46.25	74.00	54.00
2387.85	Н	55.02	-4.10	50.92	74.00	54.00
2390	Н	52.34	-3.94	48.40	74.00	54.00
2310	V	51.28	-4.20	47.08	74.00	54.00
2389.98	V	50.56	-4.10	46.46	74.00	54.00
2390	V	49.74	-3.94	45.80	74.00	54.00
		Modulatio	n Type: 802.11	n(40MHz)		
		High	channel: 2452			
	Ant. Pol. H/V	Peak reading (dBµV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBµV/m)	AV limit (dBµV/m)
requency (MHz)		52.27	-3.60	48.67	74.00	54.00
(MHz) 2483.5	Н	52.21	0.50	51.01	74.00	54.00
(MHz)	Н	54.51	-3.50			= 1 0 0
(MHz) 2483.5			-3.50 -3.34	45.95	74.00	54.00
(MHz) 2483.5 2493.51	Н	54.51			74.00 74.00	54.00 54.00
(MHz) 2483.5 2493.51 2500	H H	54.51 49.29	-3.34	45.95		

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			М	Above odulation T	1GHz ype: 802.11	lb					
Low channel: 2412 MHz											
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)		
4824	H	50.42		0.75	51.17		74	54	-2.83		
7236	С Н С	41.39	LO.	9.87	51.26		74	54	-2.74		
	Ĥ										
4824	V	49.51		0.75	50.26		74	54	-3.74		
7236	V	41.75		9.87	51.62		74	54	-2.38		
	V			(20	5)		$(-\Theta)$		(
				0					<u> </u>		

			Μ	iddle chanr	nel: 2437MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4874	ЮН	49.82	×	0.97	50.79	<u> </u>	74	54	-3.21
7311	Н	41.04		9.83	50.87		74	54	-3.13
	Н								
4874	V	49.55		0.97	50.52		74	54	-3.48
7311	V	40.68		9.83	50.51		74	54	-3.49
· · · · ·	V								2

	High channel: 2462 MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)		
4924	Н	49.79		1.18	50.97		74	54	-3.03		
7386	Н	39.52		10.07	49.59		74	54	-4.41		
	Н										
				(((8)		
4924	V	49.64		1.18	50.82		74	54	-3.18		
7386	V	40.18		10.07	50.25		74	54	-3.75		
	V										

Note:

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

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

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

Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
 Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB

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.



Modulation Type: 802.11g

_	Low channel: 2412 MHz									
Q.	Frequency (MHz)	ency Ant. Pol. Peak z) H/V (dBµV)		AV reading (dBuV)	ading uV) Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
ľ	4824	Н	49.39		0.75	50.14		74	54	-3.86
	7236	Н	40.05		9.87	49.92		74	54	-4.08
		Ŧ								
	()	(U))	()	$\langle \mathbf{O} \rangle$)
Γ	4824	V	47.54		0.75	48.29		74	54	-5.71
	7236	V	40.12		9.87	49.99		74	54	-4.01
		V								

		(G)	Middle channel: 2437MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
4874	Н	48.38		0.97	49.35		74	54	-4.65	
7311	H	40.22		9.83	50.05		74	54	-3.95	
5	Ч		N N					<u>K</u>		
4874	V	47.78		0.97	48.75		74	54	-5.25	
7311	V	40.91		9.83	50.74		74	54	-3.26	
	V			((

			H	ligh channe	el: 2462 MH	Z			e e
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	47.52		1.18	48.70		74	54	-5.30
7386	H	39.26		10.07	49.33		74	54	-4.67
	H								
4924	V	46.85		1.18	48.03		74	54	-5.97
7386	V	40.07		10.07	50.14		74	54	-3.86
/	V			🔨	/				X

Note:

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

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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. The highest test frequency is 25GHz.

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.



Modulation Type: 802.11n (HT20)

			L	ow channe		Z			
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)
4824	Н	49.41		0.75	50.16		74	54	-3.84
7236	Н	40.13		9.87	50.00		74	54	-4.00
	Н					-			
	$\langle \mathbf{O}^{T} \rangle$)	()	$\langle \mathbf{O} \rangle$			
4824	V	47.82		0.75	48.57		74	54	-5.43
7236	V	40.34		9.87	50.21		74	54	-3.79
	V								

C			(G)	М	iddle chanr	el: 2437MH	Ιz	(G)		
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	4874	Н	47.84		0.97	48.81		74	54	-5.19
	7311	Н	40.02		9.83	49.85		74	54	-4.15
		Ч Ч							<u>14</u>	/
Γ										
Γ	4874	V	47.65		0.97	48.62		74	54	-5.38
	7311	V	40.14		9.83	49.97		74	54	-4.03
Z		V			((

			H	ligh channe	el: 2462 MH	Z			e e
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	48.58		1.18	49.76		74	54	-4.24
7386	H	40.16		10.07	50.23		74	54	-3.77
	Н								
4924	V	47.33		1.18	48.51		74	54	-5.49
7386	V	40.75		10.07	50.82		74	54	-3.18
	V			🔨	· /				🔨

Note:

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

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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. The highest test frequency is 25GHz.

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.

TCT

Report No.: TCT180604E003

				Modu	lation Type	e: 802.11n (H	HT40)			
				l	Low channe	el: 2422 MH	z			
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
	4844	Н	45.95		0.66	46.61		74	54	-7.39
	7266	Н	38.34		9.50	47.84	~~~	74	54	-6.16
'	(CH		TTC		()	O^{-}		C	
	×					4				
'	4824	V	44.07		0.66	44.73		74	54	-9.27
1 '	7236	V	35.28		9.50	44.78		74	54	-9.22
\square		V				x				
l.C			(.C)	· · · · ·	(.0			(.C)	<u>.</u>	

			Μ	iddle chann	el: 2437MF	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	42.63		0.99	43.62		74	54	-10.38
7311	С H	34.49	1KO	9.85	44.34		74	54	-9.66
	Н								
4874	V	43.56		0.99	44.55		74	54	-9.45
7311	V	37.74		9.85	47.59		74	54	-6.41
())	V)				

				ligh channe		z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)		Margin (dB)
4904	Н	45.18		1.33	46.51	<u> </u>	74	54	-7.49
7356	Н	36.95		10.22	47.17		74	54	-6.83
	Н								
4904	V	43.83		1.33	45.16		74	54	-8.84
7356	V	36.79		10.22	47.01		74	54	-6.99
	V								

Note:

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

2. Margin (dB) = Emission Level (Peak) (dBµV/m)-Average limit (dBµV/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. The highest test frequency is 25GHz.

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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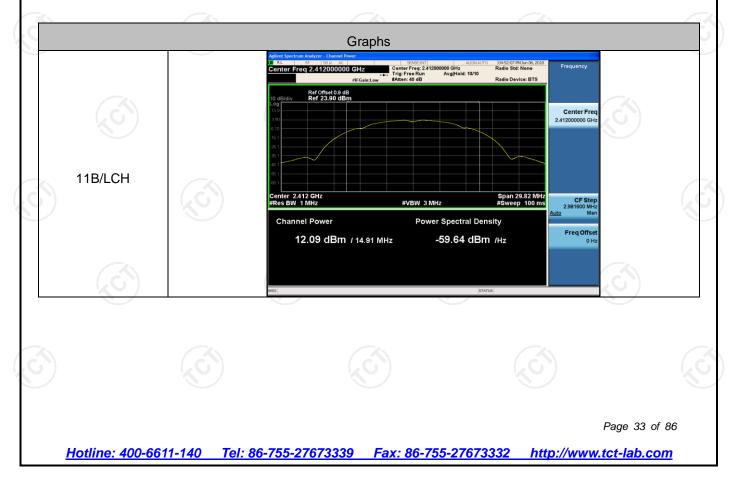
Appendix A: Test Result of Conducted Test Conducted Average Output Power

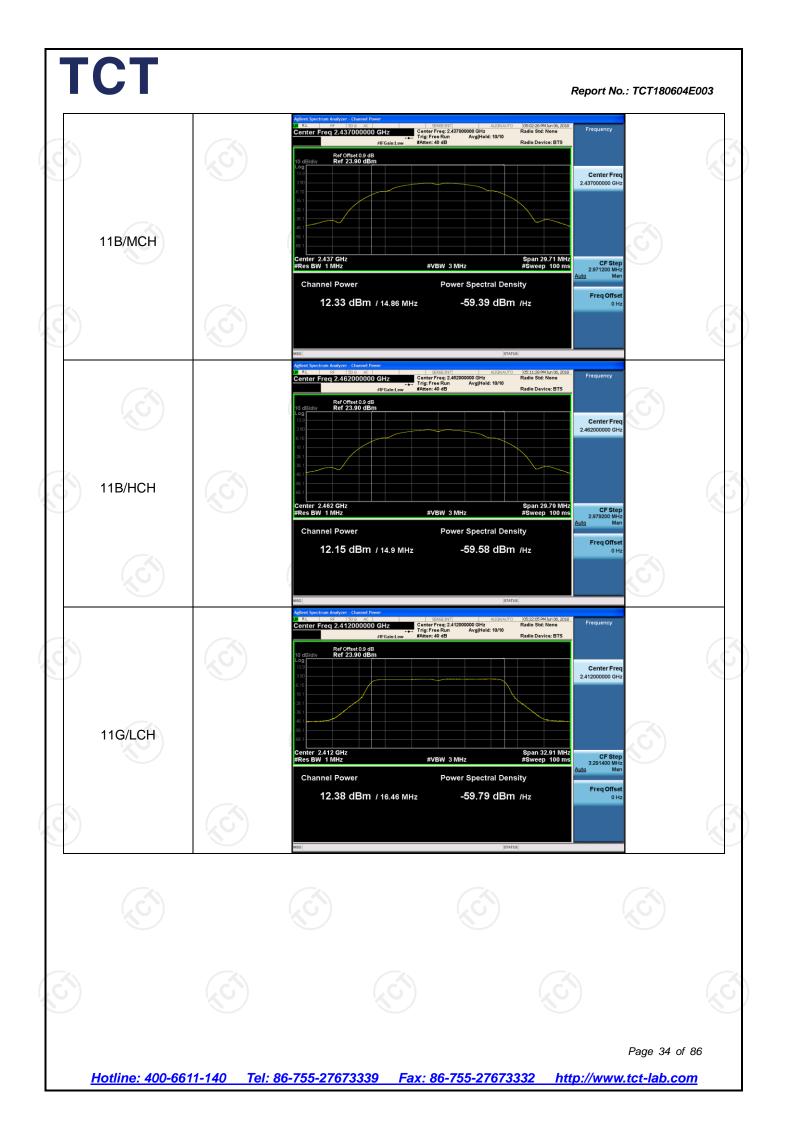
Result Table

TCT

	(χG^{*})	$(\mathcal{A}\mathcal{G})$	
Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	12.09	PASS
11B	MCH	12.33	PASS
11B	НСН	12.15	PASS
11G	LCH	12.38	PASS
11G	MCH	11.81	PASS
11G	НСН	11.82	PASS
11N20SISO	LCH	11.52	PASS
11N20SISO	MCH	11.89	PASS
11N20SISO	НСН	11.91	PASS
11N40SISO	LCH	11.86	PASS
11N40SISO	MCH	11.28	PASS
11N40SISO	НСН	11.15	PASS

Test Graph











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6dB Occupied Bandwidth

Result Table

ТСТ

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict	
11B	LCH	10.03	14.908	PASS	
11B	MCH	10.06	14.856	PASS	
11B	НСН	9.565	14.896	PASS	
11G	LCH	16.34	16.457	PASS	
11G	МСН	16.33	16.461	PASS	
11G	НСН	16.35	16.484	PASS	
11N20SISO	LCH	17.54	17.612	PASS	
11N20SISO	MCH	17.54	17.601	PASS	
11N20SISO	НСН	17.55	17.606	PASS	
11N40SISO	LCH	32.96	35.785	PASS	
11N40SISO	МСН	35.05	35.772	PASS	
11N40SISO	НСН	35.04	35.758	PASS	

Graphs

0 GH

Test Graph

eq 2.41200 11B/LCH ter 2.412 GHz s BW 100 kHz



04:51:10 PM Jun 06, 201 Radio Std: None

Frequency

CF St 4.000000

Freq Offs

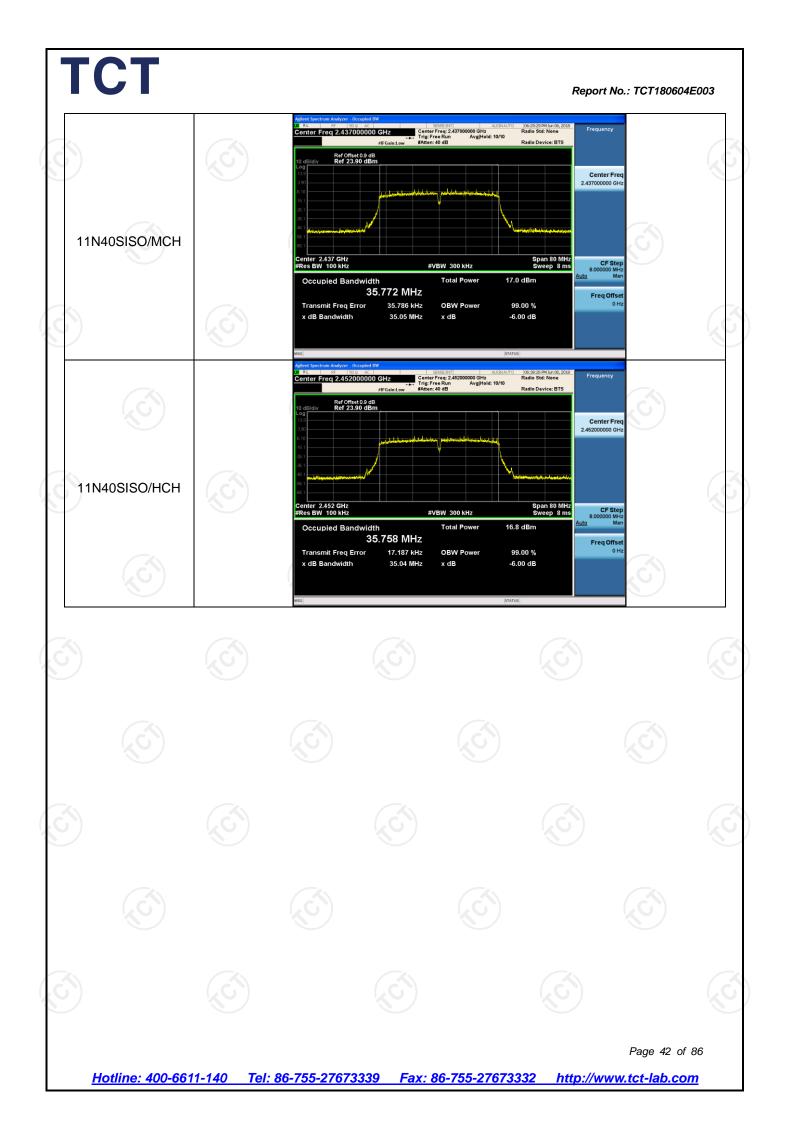
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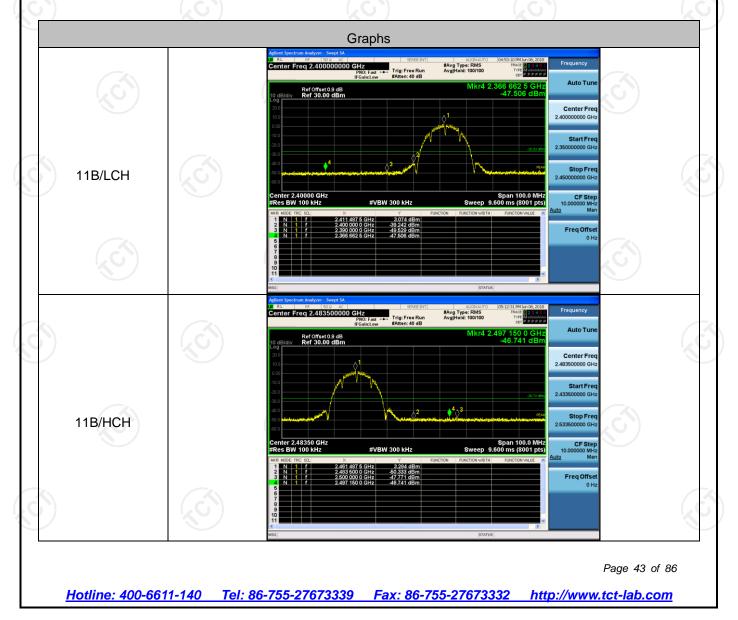
Band-edge for RF Conducted Emissions

Result Table

TCT

Mode	Channel	Carrier Power [dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict	
11B	LCH	3.074	-47.506	-26.93	PASS	
11B	НСН	3.284	-46.741	-26.72	PASS	
11G	LCH	0.541	-46.699	-29.46	PASS	
11G	НСН	0.207	-46.608	-29.79	PASS	
11N20SISO	LCH	0.140	-46.456	-29.86	PASS	
11N20SISO	НСН	0.194	-45.579	-29.81	PASS	
11N40SISO	LCH	-1.946	-47.218	-31.95	PASS	
11N40SISO	НСН	-3.083	-46.688	-33.08	PASS	

Test Graph







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RF Conducted Spurious Emissions

Result Table

TCT

Mode	Channel	Pref [dBm]	Puw [dBn	n] Verdict
11B	LCH	2.766	<limit< td=""><td>PASS</td></limit<>	PASS
11B	МСН	3.088	<limit< td=""><td>PASS</td></limit<>	PASS
11B	НСН	3.107	<limit< td=""><td>PASS</td></limit<>	PASS
11G	LCH	0.72	<limit< td=""><td>PASS</td></limit<>	PASS
11G	МСН	0.118	<limit< td=""><td>PASS</td></limit<>	PASS
11G	нсн	0.078	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	LCH	-0.213	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	МСН	0.605	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	НСН	0.176	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	LCH	-2.241	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	МСН	-2.632	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	НСН	-3.32	<limit< td=""><td>PASS</td></limit<>	PASS

Test Graph

