



RADIO TEST REPORT FCC ID: 2ATVQ-U9000

Product: Handheld terminal

Trade Mark: N/A

Model No.: U9000

 Family Model:
 N40, N40L, N40H, N40P, N40A, N40B, N41U, N45, N50, N50L, N50H, N50P, N55, N55L, N55H, N55P, N60, N60L, N60H, N60P, N60A, N60B, BlovedreamN60, N65, N70, N80P, N80H, S40, P50, P60, P70, P80, P90, N90, U8000S, U8000T U8000P, U9000S, U9000T, U9000P, U9100T, IPDA030, IPDA036

Report No.: S22022500402002

Issue Date: 22 Mar. 2022

Prepared for

SHENZHEN BLOVEDREAM TECHNOLOGY CO., LTD

4th Floor, A-Building, Fenghuang Zhigu Building, Tiezai Rd, Xixiang Street, Bao'an District, Shenzhen, China

Prepared by

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Report No.: S22022500402002

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1	TES	ST RESULT CERTIFICATION	3
2	SUN	MMARY OF TEST RESULTS	4
3	FAC	CILITIES AND ACCREDITATIONS	5
	3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5
4	GEI	NERAL DESCRIPTION OF EUT	6
5		SCRIPTION OF TEST MODES	
6	SET	TUP OF EQUIPMENT UNDER TEST	9
	6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS	10 11
7	TES	ST REQUIREMENTS	13
	7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION 6DB BANDWIDTH DUTY CYCLE PEAK OUTPUT POWER POWER SPECTRAL DENSITY CONDUCTED BAND EDGE MEASUREMENT SPURIOUS RF CONDUCTED EMISSIONS ANTENNA APPLICATION	16 26 27 30 32 33 34
8		ST RESULTS	
	8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9 8.10 8.11 8.12	1M. MAXIMUM CONDUCTED OUTPUT POWER. OCCUPIED CHANNEL BANDWIDTH. MAXIMUM POWER SPECTRAL DENSITY LEVEL. BAND EDGE. CONDUCTED RF SPURIOUS EMISSION. 2M. MAXIMUM CONDUCTED OUTPUT POWER. OCCUPIED CHANNEL BANDWIDTH. MAXIMUM POWER SPECTRAL DENSITY LEVEL. BAND EDGE. CONDUCTED RF SPURIOUS EMISSION.	35 37 39 41 43 47 47 47 49 51 53



1 TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN BLOVEDREAM TECHNOLOGY CO., LTD	
Address:	4th Floor,A-Building,Fenghuang Zhigu Building,Tiezai Rd,Xixiang Street,Bao'an District, Shenzhen, China	
Manufacturer's Name:	SHENZHEN BLOVEDREAM TECHNOLOGY CO.,LTD	
Address:	4th Floor,A-Building,Fenghuang Zhigu Building,Tiezai Rd,Xixiang Street,Bao'an District, Shenzhen, China	
Product description		
Product name:	Handheld terminal	
Model and/or type reference:	U9000	
Family Model:	N40, N40L, N40H, N40P, N40A, N40B, N41U, N45, N50, N50L, N50H, N50P, N55, N55L, N55H, N55P, N60, N60L, N60H, N60P, N60A, N60B, BlovedreamN60, N65, N70, N80P, N80H, S40, P50, P60, P70, P80, P90, N90, U8000S, U8000T, U8000P, U9000S, U9000T, U9000P, U9100T, IPDA030, IPDA036	

Measurement Procedure Used:

APPLICABLE STANDARDS		
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J		
FCC 47 CFR Part 15, Subpart C	Complied	
ANSI C63.10-2013	Complied	
KDB 558074 D01 15.247 Meas Guidance v05r02		

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	:	25 Feb. 2022 ~21 Mar, 2022	
		Krang. Hu	
Testing Engineer	:		
		(Mary Hu)	
		Alex	
Authorized Signatory	:	0	
		(Alex Li)	



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2 SUMMARY OF TEST RESULTS						
	FCC Part15 (15.247), Subpart C					
Standard Section Test Item Verdict Rema						
15.207 Conducted Emission PASS						
15.247 (a)(2) 6dB Bandwidth PASS						
15.247 (b) Peak Output Power PASS						
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS				
15.247 (e)	Power Spectral Density PAS					
15.247 (d) Band Edge Emission PASS						
15.247 (d) Spurious RF Conducted Emission PASS						
15.203 Antenna Requirement PASS						

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A. CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
Name of Firm Site Location	 Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 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	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%



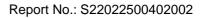
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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Handheld terminal			
Trade Mark	N/A			
FCC ID	2ATVQ-U9000			
Model No.	U9000			
Family Model	N40, N40L, N40H, N40P, N40A, N40B, N41U, N45, N50, N50L, N50H, N50P, N55, N55L, N55H, N55P, N60, N60L, N60H, N60P, N60A, N60B, BlovedreamN60, N65, N70, N80P, N80H, S40, P50, P60, P70, P80, P90, N90, U8000S, U8000T, U8000P, U9000S, U9000T, U9000P, U9100T, IPDA030, IPDA036			
Model Difference	All models are the same circuit and RF module, except the Model name and appearance.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK			
Number of Channels	40 Channels			
Antenna Type	PIFI Antenna			
Antenna Gain	1.3dBi			
Power supply	DC 3.7V 4800mAh from battery or DC 5V from Type - C port.			
Adapter	N/A			
HW Version	U9000T_MB_V1.2			
SW Version	21.0.2.315			

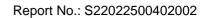
Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.





Revision History				
Report No.	Version	Description	Issued Date	
S22022500402002	Rev.01	Initial issue of report	22 Mar, 2022	

ACCREDITED Certificate #4298.01





5 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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report. Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Test Cases				
Test Item	Data Rate/ Modulation			
AC Conducted Emission	Mode 1: normal link mode			
	Mode 1: normal link mode			
Radiated Test Cases	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps			
Radialed Test Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps			
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps			
	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps			
Conducted Test Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps			
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps			

Note:

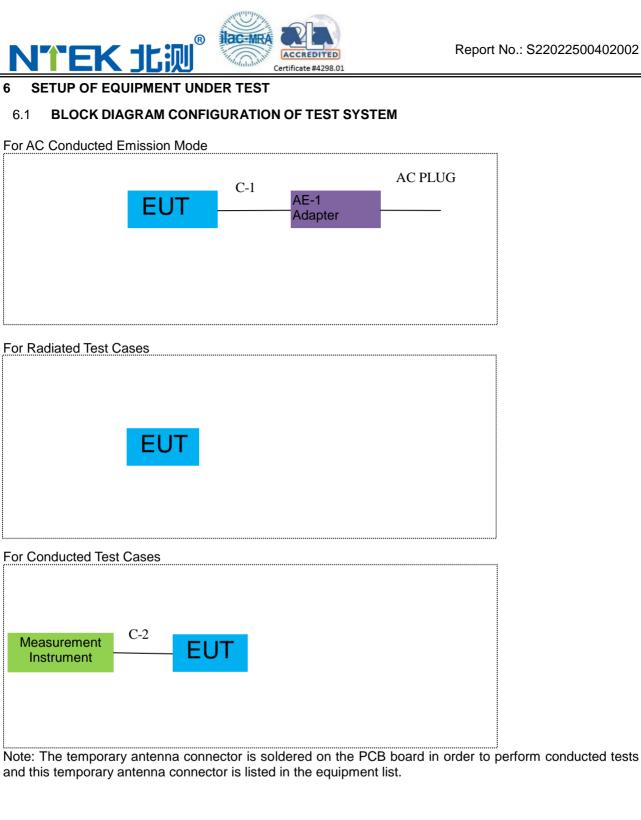
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

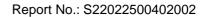
2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly

frequencies found in conducted spurious emission.

4. EUT built-in battery-powered, the battery is fully-charged.







6.2 SUPPORT EQUIPMENT

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.

100101				
Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	DC Cable	YES	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (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 [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

adiatic	on& Conducted T	est equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2021.07.01	2022.06.30	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2021.07.01	2022.06.30	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list **NTEK** 北测

AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

	Conducted	d Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

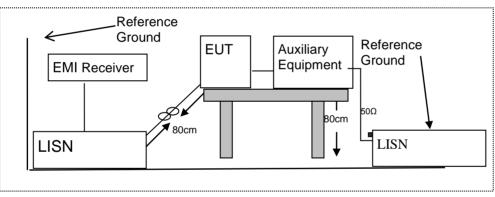
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
 - 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

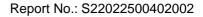
7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT 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.
- 4. 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 40cm long.
- 5. 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.





7.1.6 Test Results

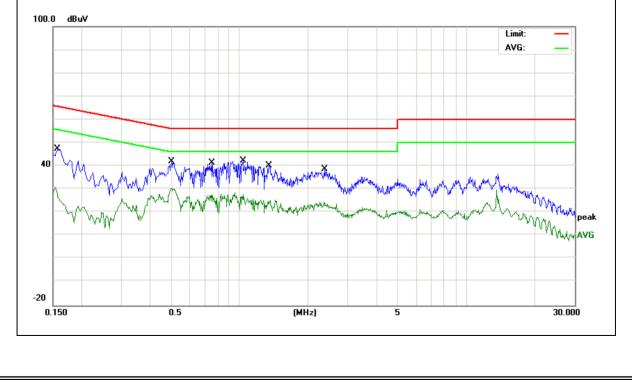
EUT:	Handheld terminal	Model Name :	U9000
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	37.74	9.71	47.45	65.56	-18.11	QP
0.1580	21.08	9.71	30.79	55.56	-24.77	AVG
0.5020	32.41	9.64	42.05	56.00	-13.95	QP
0.5020	20.74	9.64	30.38	46.00	-15.62	AVG
0.7580	31.63	9.74	41.37	56.00	-14.63	QP
0.7580	17.94	9.74	27.68	46.00	-18.32	AVG
1.0339	32.51	9.75	42.26	56.00	-13.74	QP
1.0339	18.18	9.75	27.93	46.00	-18.07	AVG
1.3500	30.37	9.75	40.12	56.00	-15.88	QP
1.3500	15.36	9.75	25.11	46.00	-20.89	AVG
2.3740	28.78	9.74	38.52	56.00	-17.48	QP
2.3740	14.62	9.74	24.36	46.00	-21.64	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



Version.1.3



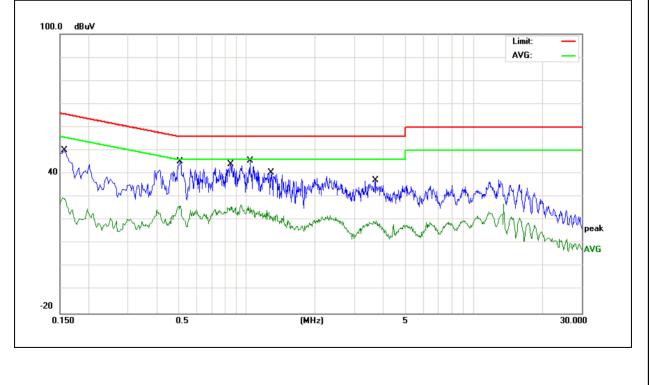
EUT:	Handheld terminal	Model Name :	U9000
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	40.35	9.63	49.98	65.56	-15.58	QP
0.1580	20.01	9.63	29.64	55.56	-25.92	AVG
0.5100	35.52	9.73	45.25	56.00	-10.75	QP
0.5100	16.38	9.73	26.11	46.00	-19.89	AVG
0.8497	34.26	9.69	43.95	56.00	-12.05	QP
0.8497	16.09	9.69	25.78	46.00	-20.22	AVG
1.0339	35.71	9.75	45.46	56.00	-10.54	QP
1.0339	16.16	9.75	25.91	46.00	-20.09	AVG
1.2780	30.79	9.72	40.51	56.00	-15.49	QP
1.2780	14.40	9.72	24.12	46.00	-21.88	AVG
3.6899	27.25	9.75	37.00	56.00	-19.00	QP
3.6899	10.03	9.75	19.78	46.00	-26.22	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



Version.1.3



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to FCC Part 15.205, Restricted bands						
MHz	MHz	MHz	GHz			
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15			
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46			
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75			
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5			
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2			
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5			
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7			
6.26775-6.26825	123-138	2200-2300	14.47-14.5			
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2			
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4			
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12			
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0			
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8			
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5			
12.57675-12.57725	322-335.4	3600-4400	(2)			
13.36-13.41						

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)				
Frequency(IVITZ)	PEAK	AVERAGE			
Above 1000	74	54			

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



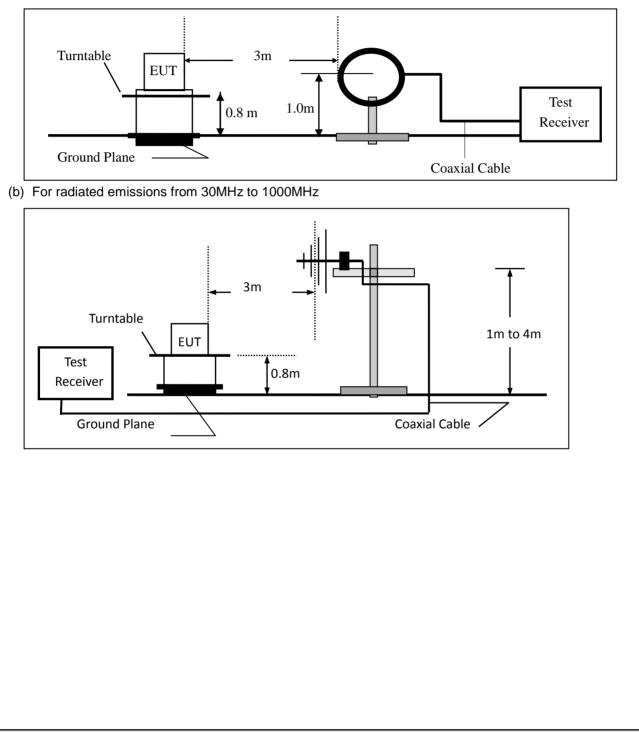


7.2.3 Measuring Instruments

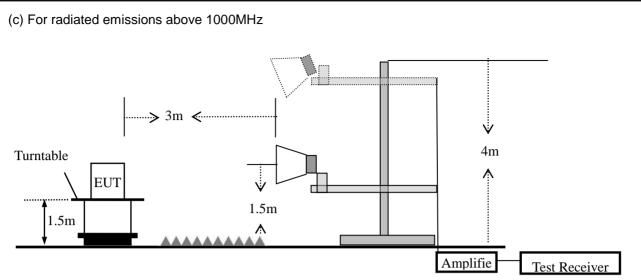
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz







7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Ose the following spectrum analyzer settings	
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average
Start Frequency Stop Frequency	1000 MHz 10th carrier harmonic

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

- 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 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. 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 for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.



- e. 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.
- f. 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.
- g. 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



During the radiated emission t	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:								
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth						
30 to 1000	QP	120 kHz	300 kHz						
Ab aug 4000	Peak	1 MHz	1 MHz						
Above 1000	Average	1 MHz	1 MHz						

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

EUT:	Handheld terminal	Model No.:	U9000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

I	-req.	Ant.Pol.	Emission L	evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)		
(MHz)	H/V	PK AV		PK	AV	PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



NTEK 北测

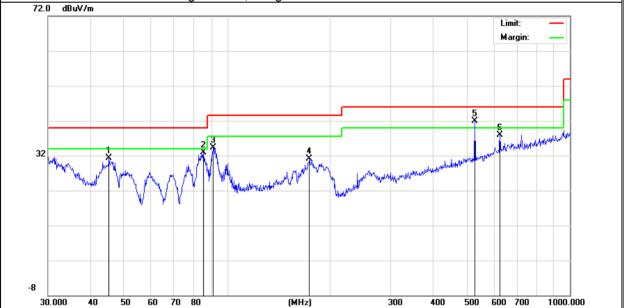
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

	An the modulation modes have been tested; and the worst result was report as below.								
EUT:	Handheld terminal	Model Name :	U9000						
Temperature:	24 ℃	Relative Humidity:	53%						
Pressure:	1010hPa	Test Mode:	Mode 1						
Test Voltage :	DC 3.7V								

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Limits Margin		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	dBuV/m) (dBuV/m)			
V	45.2166	14.66	16.57	31.23	40.00	-8.77	QP	
V	85.2980	18.29	14.63	32.92	40.00	-7.08	QP	
V	91.1746	18.39	15.82	34.21	43.50	-9.29	QP	
V	173.8135	15.00	16.20	31.20	43.50	-12.30	QP	
V	528.2458	16.91	25.09	42.00	46.00	-4.00	QP	
V	625.0780	10.73	27.27	38.00	46.00	-8.00	QP	

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit







Report No.: S22022500402002										
			1GHz (1GI							
EUT:		andheld t			el No.:	US	9000			
Temperature	e: 20) °C		Relat	tive Humidity	y: 48	8%			
Test Mode:			de3/Mode4				ary Hu			
Fraguanav	Read	Cable	Antenna	Preamp	Emission	Limit		Vorgin		
Frequency	Level	loss	Factor	Factor	Level	LIIIII	mits Margin	viargin	Remark	Commen
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV		(dB)		
		1	Low Chan	nel (2402	MHz)(GFSK)Abov	e 1G		r	
4802.07	61.50	5.21	35.59	44.30	58.00	74.0	0 ·	-16.00	Pk	Vertical
4802.07	43.83	5.21	35.59	44.30	40.33	54.0	0 ·	-13.67	AV	Vertical
7206.83	64.10	6.48	36.27	44.60	62.25	74.0	0 .	-11.75	Pk	Vertical
7206.83	43.12	6.48	36.27	44.60	41.27	54.0	54.00 -12		AV	Vertical
4804.13	61.99	5.21	35.55	44.30	58.45	74.00 -		-15.55	Pk	Horizonta
4804.13	43.28	5.21	35.55	44.30	39.74	54.00		-14.26	AV	Horizonta
7206.20	62.87	6.48	36.27	44.52	61.10	74.0	0.	-12.90	Pk	Horizonta
7206.20	43.30	6.48	36.27	44.52	41.53	54.0		-12.47	AV	Horizonta
	Mid Channel (2440 MHz)(GFSK)Above 1				e 1G					
4880.548	60.91	5.21	35.66	44.20	57.58	74.0	0 ·	-16.42	Pk	Vertical
4880.548	43.68	5.21	35.66	44.20	40.35	54.0	0 ·	-13.65	AV	Vertical
7320.278	62.60	7.10	36.50	44.43	61.77	74.0	0 ·	-12.23	Pk	Vertical
7320.278	43.01	7.10	36.50	44.43	42.18	54.0	0	-11.82	AV	Vertical
4880.524	64.03	5.21	35.66	44.20	60.70	74.0	0 ·	-13.30	Pk	Horizonta
4880.524	43.80	5.21	35.66	44.20	40.47	54.0	0 ·	-13.53	AV	Horizonta
7320.149	60.22	7.10	36.50	44.43	59.39	74.0	0 ·	-14.61	Pk	Horizonta
7320.149	43.09	7.10	36.50	44.43	42.26			-11.74	AV	Horizonta
			High Chan	nel (2480	MHz)(GFSK	i) Abov	/e 1G			
4960.044	64.78	5.21	35.52	44.21	61.30	74.0	0 ·	-12.70	Pk	Vertical
4960.044	43.62	5.21	35.52	44.21	40.14	54.0	0 ·	-13.86	AV	Vertical
7440.077	64.56	7.10	36.53	44.60	63.59	74.0	0.	-10.41	Pk	Vertical
7440.077	43.14	7.10	36.53	44.60	42.17	54.0	0	-11.83	AV	Vertical
4960.834	61.33	5.21	35.52	44.21	57.85	74.0	0.	-16.15	Pk	Horizonta
4960.834	43.87	5.21	35.52	44.21	40.39	54.0	0 ·	-13.61	AV	Horizonta
7440.177	64.99	7.10	36.53	44.60	64.02	74.0	0	-9.98	Pk	Horizonta
7440.177	43.17	7.10	36.53	44.60	42.20	54.0	0	-11.80	AV	Horizonta

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



EUT:	Hand	Handheld terminal Model No.: U9000				U9000				
Temperatu	re: 20 ℃			Re	ative Humidity	/:	48%			
Test Mode:	Mode	de2/ Mode4 Test By: Mary Hu								
Frequency	Meter Reading	Cable Loss	Antenna Factor	Pream Factor		Liı	mits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	µV/m)	(dB)	Туре	
				1M	ops(GFSK)					
2310.00	64.59	2.97	27.80	43.80	51.56	-	74	-22.44	Pk	Horizontal
2310.00	39.27	2.97	27.80	43.80	26.24	Ę	54	-27.76	AV	Horizontal
2310.00	60.87	2.97	27.80	43.80	47.84	-	74	-26.16	Pk	Vertical
2310.00	43.15	2.97	27.80	43.80	30.12	Ę	54	-23.88	AV	Vertical
2390.00	61.74	3.14	27.21	43.80	48.29	-	74	-25.71	Pk	Vertical
2390.00	43.74	3.14	27.21	43.80	30.29	Ę	54	-23.71	AV	Vertical
2390.00	63.47	3.14	27.21	43.80	50.02	-	74	-23.98	Pk	Horizontal
2390.00	43.48	3.14	27.21	43.80	30.03	Ę	54	-23.97	AV	Horizontal
2483.50	64.76	3.58	27.70	44.00	52.04		74	-21.96	Pk	Vertical
2483.50	43.48	3.58	27.70	44.00	30.76	Ę	54	-23.24	AV	Vertical
2483.50	60.68	3.58	27.70	44.00	47.96		74	-26.04	Pk	Horizontal
2483.50	43.52	3.58	27.70	44.00	30.80	Ę	54	-23.20	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



Report No.: S22022500402002									500402002			
Spurious Emission in Restricted Band 3260MHz-18000MHz												
				M	Model No.: U9000			U9000	0			
Temperatu	re:	20 °C	2		Re	Relative Humidity: 4			48%			
Test Mode:		Mod	e2/ Mode	e4	Test By:				Mary H	lu		
			1					1				
Frequency	Rea Lev	•	Cable Loss	Antenna Factor	Prean Facto		Emission Level	Li	imits	Margin	Detector	Comment
(MHz)	(dB	μV)	(dB)	dB/m	(dB))	(dBµV/m)	(dBµV/m)		(dB)	Туре	
3260	63.	08	4.04	29.57	44.7(0	51.99		74	-22.01	Pk	Vertical
3260	43.62		4.04	29.57	44.70	0	32.53		54	-21.47	AV	Vertical
3260	62.04		4.04	29.57	44.70	0	50.95		74	-23.05	Pk	Horizontal
3260	43.22		4.04	29.57	44.7(0	32.13		54	-21.87	AV	Horizontal
3332	64.	34	4.26	29.87	44.4(0	54.07		74	-19.93	Pk	Vertical
3332	43.	68	4.26	29.87	44.4(0	33.41		54	-20.59	AV	Vertical
3332	61.	58	4.26	29.87	44.4(0	51.31		74	-22.69	Pk	Horizontal
3332	43.	57	4.26	29.87	44.4(0	33.30		54	-20.70	AV	Horizontal
17797	46.	26	10.99	43.95	43.50	0	57.70		74	-16.30	Pk	Vertical
17797	34.	03	10.99	43.95	43.50	0	45.47		54	-8.53	AV	Vertical
17788	49.	67	11.81	43.69	44.60	0	60.57		74	-13.43	Pk	Horizontal
17788	34.	92	11.81	43.69	44.60	0	45.82		54	-8.18	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit. (2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

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.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

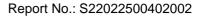
a) Set RBW = 100 kHz.

- b) Set the video bandwidth (VBW) \ge 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT: Handheld terminal		Model No.:	U9000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

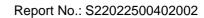
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}



7.4.6 Test Results

EUT:	Handheld terminal	Model No.:	U9000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable





7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 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. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT: Handheld terminal		Model No.:	U9000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.6 **POWER SPECTRAL DENSITY**

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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.

The EUT was operating in controlled its channel.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5*DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.

- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	Handheld terminal	Model No.:	U9000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

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.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Handheld terminal	Model No.:	U9000
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.





7.9 ANTENNA APPLICATION

7.9.1 Antenna 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.

7.9.2 Result

The EUT antenna is permanent attached PIFI antenna (Gain: 1.3dBi). It comply with the standard requirement.

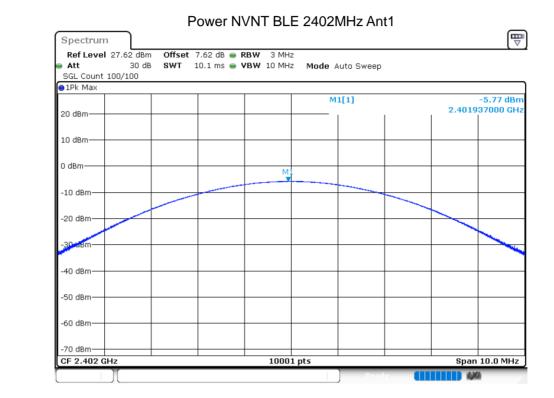


8 TEST RESULTS

8.1 **1M**

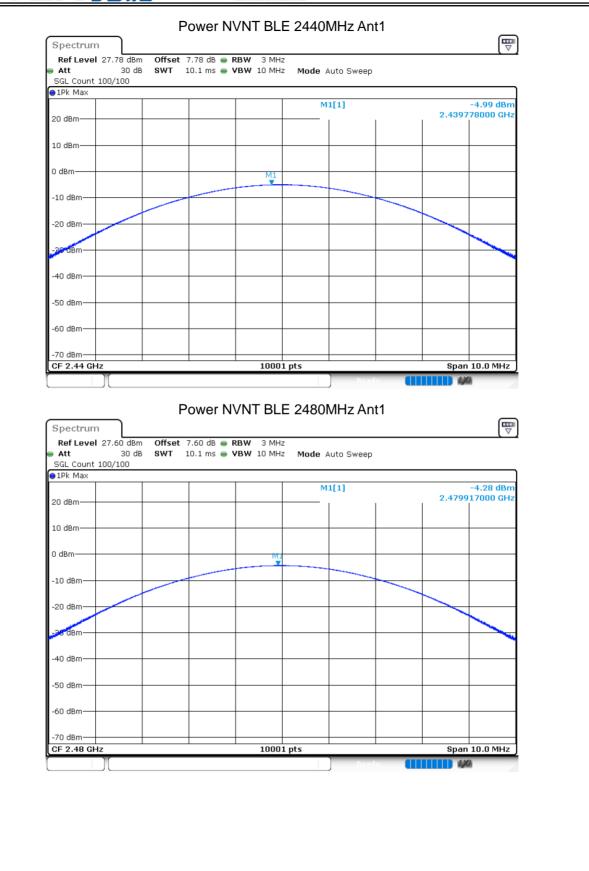
8.2	MAXIMUN	I CONDUCTED OUT	PUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant 1	-5.77	30	Pass
NVNT	BLE	2440	Ant 1	-4.99	30	Pass
Condition NVNT NVNT NVNT	BLE	2480	Ant 1	-4.28	30	Pass



Version.1.3





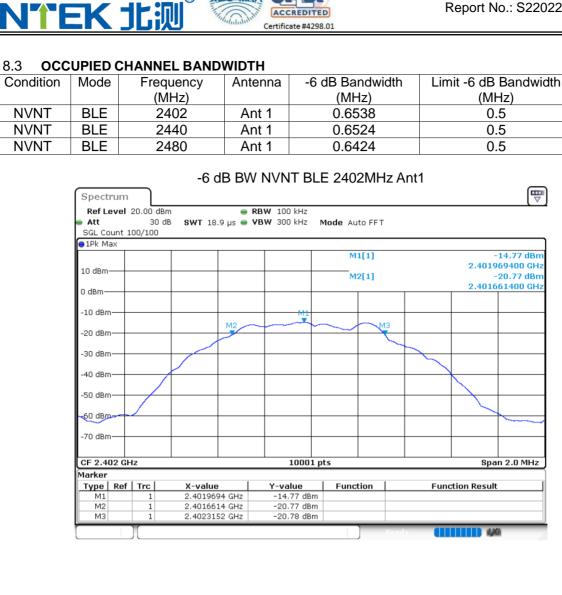
Verdict

Pass

Pass

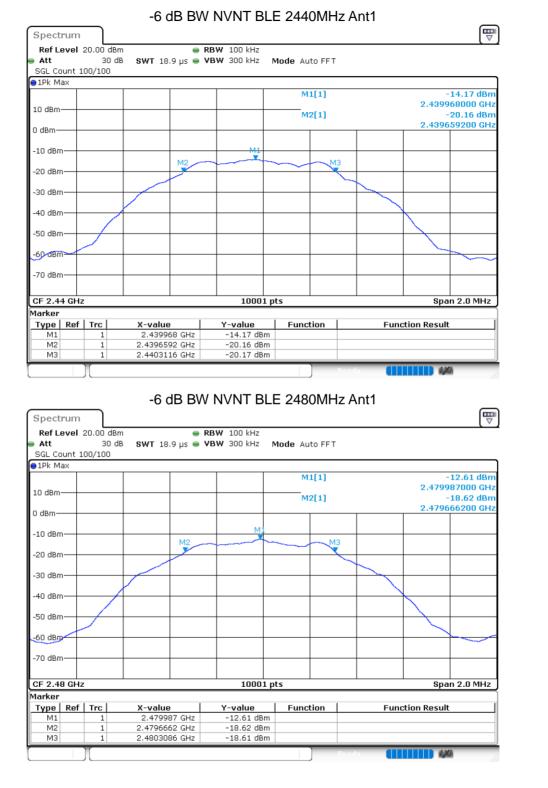
Pass



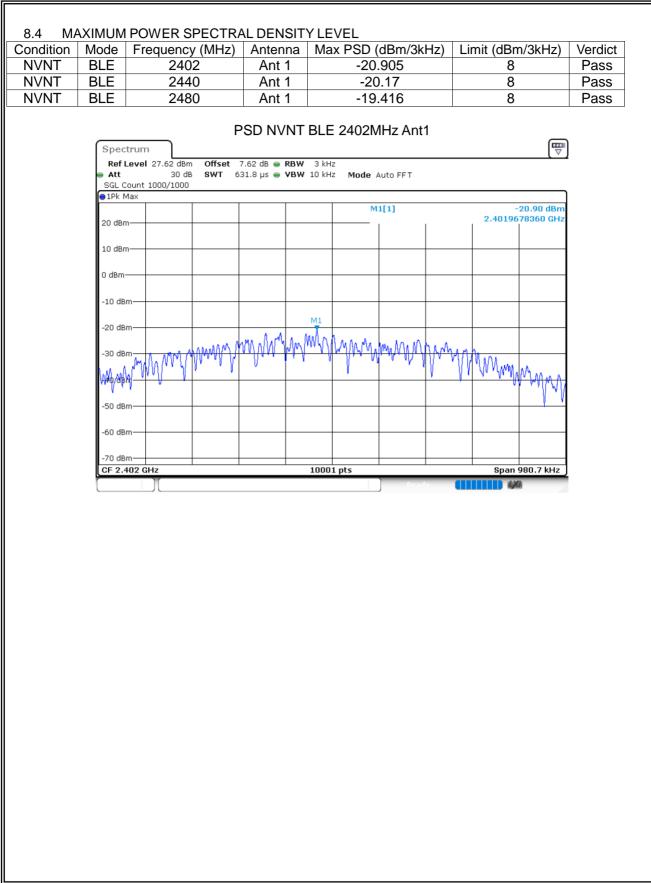






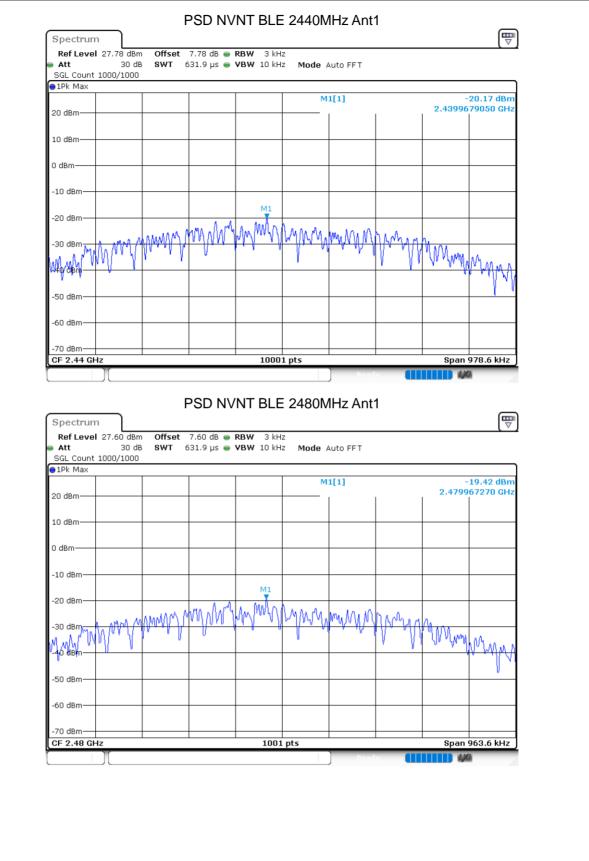




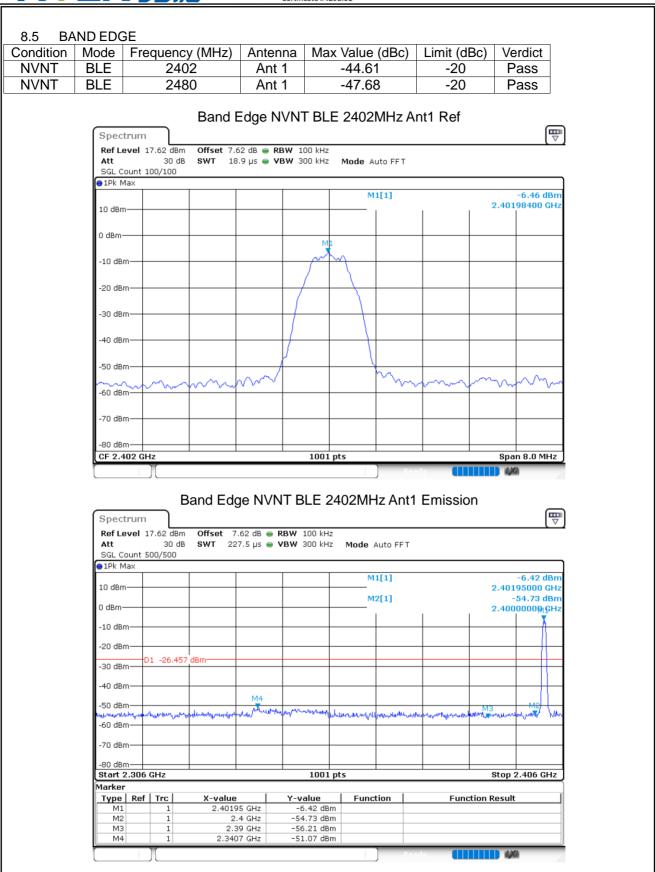




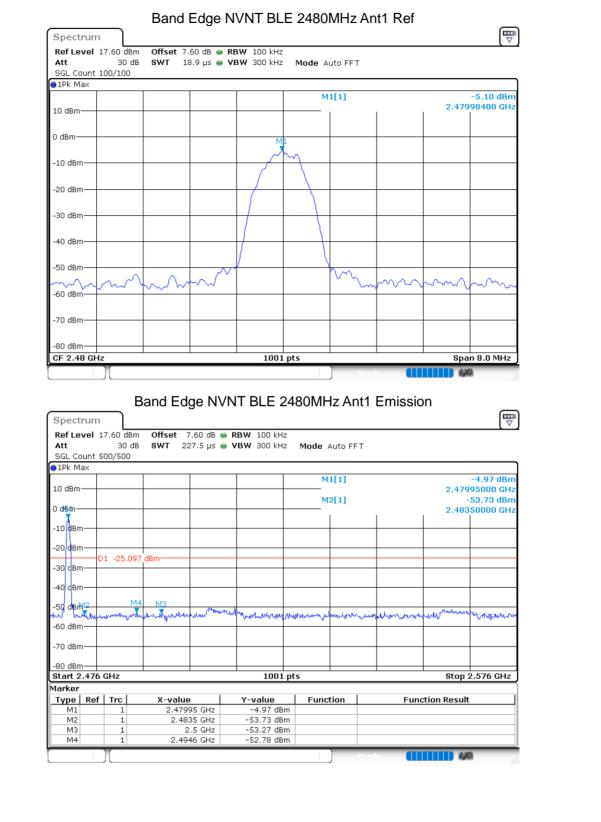






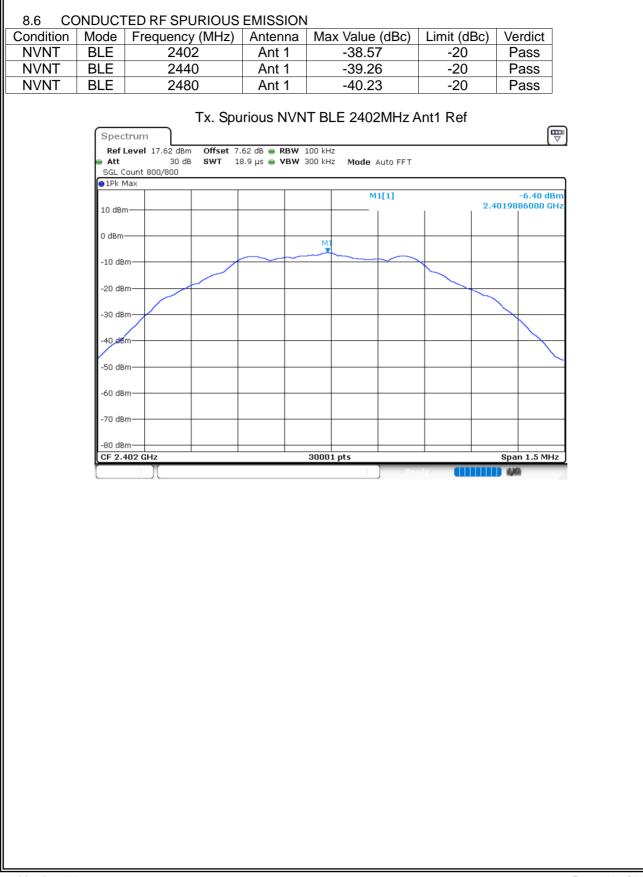




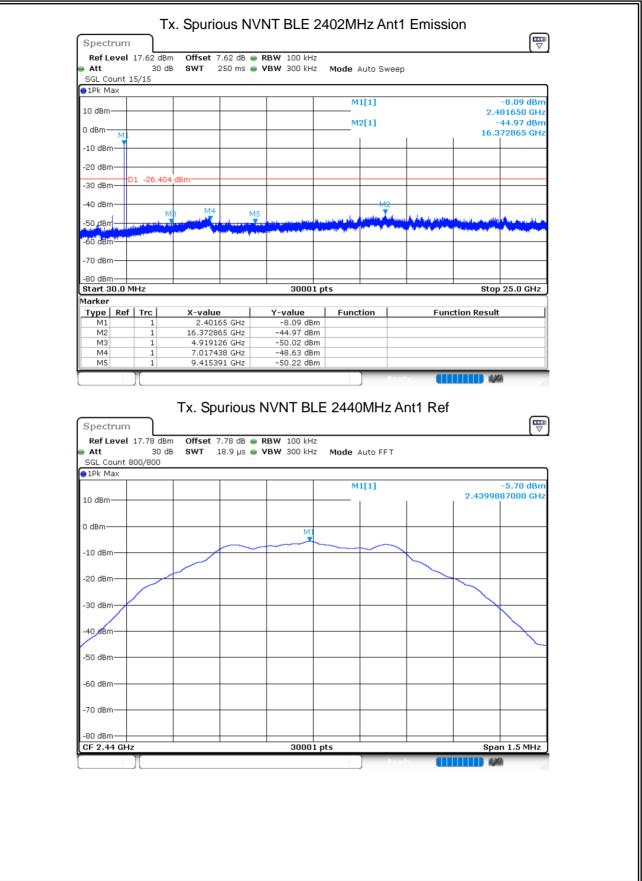




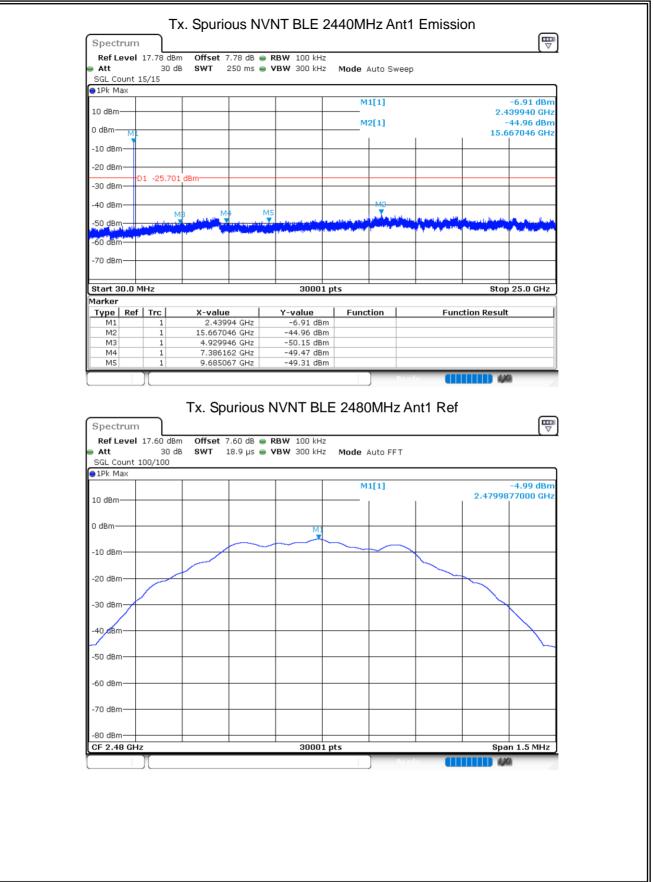














		Tx. Spurio	us NV	NT BLE 2	480MHz A	nt1 Emissio	on		
Spectrum									
Ref Level	17.60 0	Bm Offset 7.	60 dB 😑	RBW 100 kHz			X		
🕨 Att	30	dB SWT 25	50 ms 👄	VBW 300 kHz	Mode Auto St	weep			
SGL Count 1	5/15								
⊜1Pk Max									
					M1[1]		-6.52 dBm		
10 dBm							2.479890 GHz		
0 dBm	dBm			M2[1]			-45.22 dBm		
o donn Mt					1	1 1	15.602957 GHz		
-10 dBm									
-20 dBm-									
-30 dBm-	1 -24.9	992 dBm							
So abin									
-40 dBm					M2				
		M3M4		M5	and a start	have as a set of the second			
-50,dBm	a dia sa ing					the state of the state of the state of			
-60 gBm	and produced in the		Constraint and						
-00 ubiii									
-70 dBm									
-80 dBm									
Start 30.0 M	IHZ			30001 p	ots		Stop 25.0 GHz		
Marker									
	Trc	X-value		Y-value	Function	Func	tion Result		
M1	1			-6.52 dBm					
	1	15.602957 GHz		-45.22 dBm -49.19 dBm					
M2		E 005667							
M2 M3	1	5.025665							
M2		5.025665 7.499359 10.035479	9 GHz	-49.74 dBm -49.22 dBm					



8.7 **2M**

Init Spectrum Init Spe
NVNT BLE 2480 Ant 1 -4.30 30 Pa Power NVNT BLE 2402MHz Ant1 Spectrum Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Ima
Power NVNT BLE 2402MHz Ant1
Spectrum Image: Construction of the sector of
10 dBm 0 dBm -10 dBm -20 dBm -40 dBm -40 dBm -0 dBm -0 dBm -0 dBm -0 dBm -20 dBm -40 dBm -







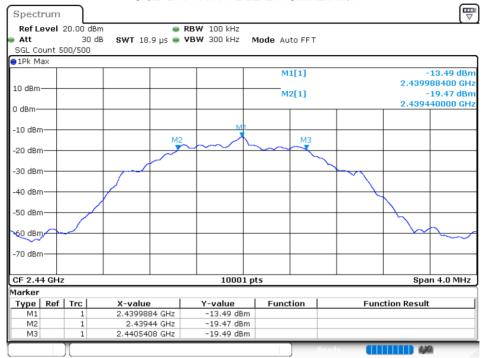


Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdic				
NVNT	NVNT BLE 2402		2 Ant 1	1.1072	0.5	Pass				
NVNT	BLE	2440	Ant 1	1.1008	0.5	Pass				
NVNT	BLE	2480	Ant 1	1.098	0.5	Pass				
	Spect			IT BLE 2402MHz Ant	1					
	Att SGL Co	unt 500/500	e RBW 100 Τ 18.9 μs e VBW 300	D KHZ D KHZ Mode Auto FFT						
	●1Pk Ma	ax IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		M1[1]	-14.04 dBm					
	10 dBm-			M2[1]	2.401988400 GHz -20.03 dBm 2.401442000 GHz					
	0 dBm—									
	-10 dBm		M2	М						
	-20 dBm									
	-30 dBm									
	-40 dBm		Ť		~ <u> </u>					
	-50 dBm									
	-60 dBm									
	-70 dBm									
	CF 2.40	CF 2.402 GHz 10001 pts Span 4.0 MH								
	Marker	Marker Type Ref Trc X-value Y-value Function Function Result								
	M1 M2 M3	1 2.4 1 2	019884 GHz -14 401442 GHz -20	.04 dBm .03 dBm .02 dBm						
				Ready	444					



<u>NTEK 北测[®]</u>

-6 dB BW NVNT BLE 2440MHz Ant1



-6 dB BW NVNT BLE 2480MHz Ant1

