



tificate #4298.01

NTEK北测

Product:Mobile PhoneTrade Mark:BmobileModel No.:B55Family Model:N/AReport No.:S20082700101002Issue Date:08 Sep.2020

Prepared for

b mobile HK Limited Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung;New Territories; Hong Kong

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District Shenzhen, Guangdong, China Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn

Version.1.3

Page 1 of 46





TABLE OF CONTENTS

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	DES	SCRIPTION OF TEST MODES	8
6	SET	FUP OF EQUIPMENT UNDER TEST	9
7		ST REQUIREMENTS	
	7.2	6DB BANDWIDTH	25
	7.3	DUTY CYCLE	26
	7.4	PEAK OUTPUT POWER	
	7.5	POWER SPECTRAL DENSITY	
	7.6	CONDUCTED BAND EDGE MEASUREMENT.	
	7.7 7.8	SPURIOUS RF CONDUCTED EMISSIONS ANTENNA APPLICATION	
8	TES	ST RESULTS	33
	8.1	MAXIMUM CONDUCTED OUTPUT POWER	
	8.2	OCCUPIED CHANNEL BANDWIDTH	
	8.3	MAXIMUM POWER SPECTRAL DENSITY LEVEL	
	8.4	BAND EDGE CONDUCTED RF SPURIOUS EMISSION	41
	8.5	CONDUCTED RF SPURIOUS EMISSION	43



1 TEST RESULT CERTIFICATION

Applicant's name	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung;New Territories; Hong Kong
Manufacturer's Name	b mobile HK Limited
Address	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 KwaiTak Street; Kwai Chung;New Territories; Hong Kong
Product description	
Product name:	Mobile Phone
Model and/or type reference:	B55
Family Model:	N/A

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	: 27 Aug.2020 ~ 07 Sep.2020	
Testing Engineer	: (Cheng Jiawen)	
Technical Manager	: Jason Chen (Jason Chen)	
Authorized Circoton	(Jason Chen)	
Authorized Signatory	:(Alex Li)	

Version.1.3



FCC Part15 (15.247), Subpart C									
Standard Section Test Item Verdict Remark									
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	PASS							
15.247 (d)	Band Edge Emission	PASS							
15.247 (d)	Spurious RF Conducted Emission	PASS							
15.203									
hark: 'N/A" denotes test is no All test items were veri the test. This EUT has also be	Antenna Requirement of applicable in this Test Report. fied and recorded according to the standard een tested and complied with the requirent test report.		-						
hark: 'N/A" denotes test is no All test items were veri the test. This EUT has also be	ot applicable in this Test Report. fied and recorded according to the standard	ds and without ar	-						
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3 FACILITIES AND ACCREDITATIONS

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3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District Shenzhen, Guangdong, 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 Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	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
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
	Shenzhen, Guangdong, 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%

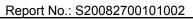


4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	Mobile Phone					
Trade Mark	Bmobile					
FCC ID	ZSW-30-098					
Model No.	B55					
Family Model	N/A					
Model Difference	N/A					
Operating Frequency	2402MHz~2480MHz					
Modulation	GFSK					
Number of Channels	40 Channels					
Bluetooth Version	BT V4.2					
Antenna Type	PIFA Antenna					
Antenna Gain	-0.38 dBi					
	DC supply: DC 3.8V/2500mAh from Battery or DC 5V from Adapter.					
Power supply	⊠Adapter supply: Input: AC100-240V~50-60Hz 0.2A Output: DC 5.0V1A					
HW Version	Bmobile_B55_HW_V1.0					
SW Version	Bmobile_B55_OM_LTM_V003					

Note: 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			
S20082700101002	Rev.01	Initial issue of report	08 Sep.2020			

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+k×2MHz 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		
Test Item	Bluetooth 4.2_LE / GFSK		
AC Conducted Emission	Mode 1: normal link mode		
	Mode 1: normal link mode		
Radiated Test	Mode 2: Bluetooth Tx Ch00_2402MHz_1Mbps		
Cases	Mode 3: Bluetooth Tx Ch19_2440MHz_1Mbps		
	Mode 4: Bluetooth Tx Ch39_2480MHz_1Mbps		
Conducted Test	Mode 2: Bluetooth Tx Ch00_2402MHz_1Mbps		
Conducted Test	Mode 3: Bluetooth Tx Ch19_2440MHz_1Mbps		
Cases	Mode 4: Bluetooth Tx Ch39_2480MHz_1Mbps		

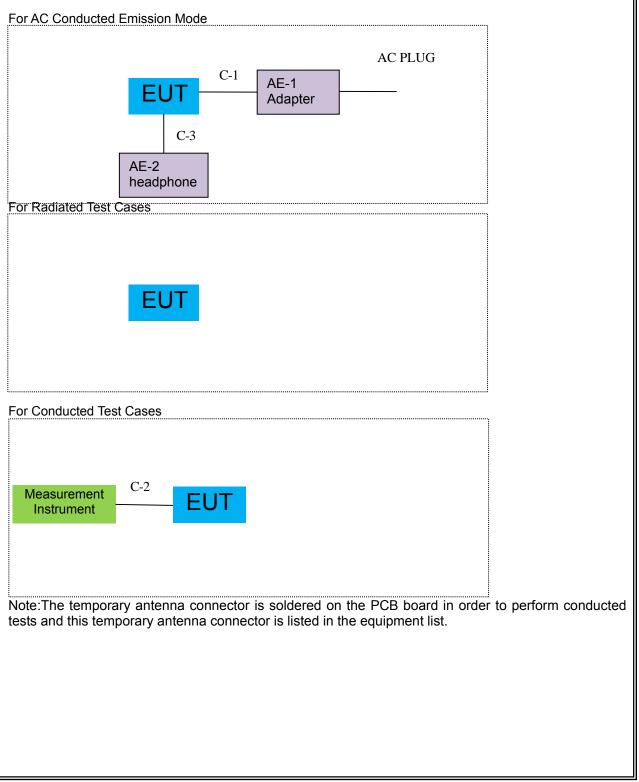
Note:

- 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 SETUP OF EQUIPMENT UNDER TEST

6.1.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM





6.1.2 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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Headphone	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	0.5m
C-2	RF Cable	YES	NO	0.1m
C-3	Headphone Cable	NO	NO	0.8m

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".



6.1.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

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aulatic	na Conducted I	estequipment	-				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.7.13	2021.7.12	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.08.07	2021.08.06	1 year
4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	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	2018.04.08	2021.04.07	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2019.11.18	2020.11.17	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.7.13	2021.7.12	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2019.11.18	2020.11.17	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.7.13	2021.7.12	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	2019.6.28	2022.6.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.6.28	2022.6.27	3 year
16	Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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



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AC Cc	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	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.05.11	2021.05.10	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2020.05.11	2021.05.10	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

7.1.1 CONDUCTED EMISSIONS TEST

7.1.2 Applicable Standard

According to FCC Part 15.207(a)

7.1.3 Conformance Limit

	Conducted 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

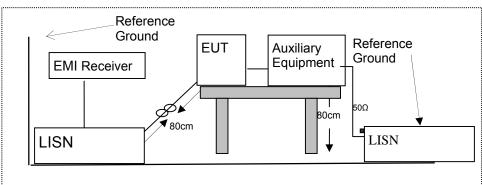
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.4 Measuring Instruments

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

7.1.5 Test Configuration



7.1.6 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.
- 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.



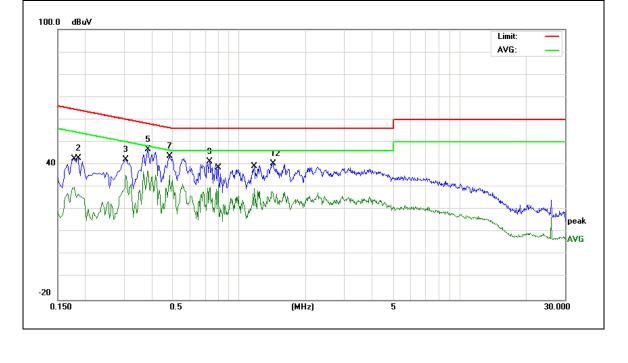
7.1.7 **Test Results**

EUT:	Mobile Phone	Model Name :	B55
Temperature:	23 ℃	Relative Humidity:	24%
Pressure:	1010hPa	Phase :	L
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
0.1780	20.38	9.55	29.93	54.57	-24.64	AVG
0.1860	33.44	9.55	42.99	64.21	-21.22	peak
0.3060	32.85	9.54	42.39	60.08	-17.69	peak
0.3060	25.79	9.54	35.33	50.08	-14.75	AVG
0.3860	37.32	9.55	46.87	58.15	-11.28	peak
0.3860	27.55	9.55	37.10	48.15	-11.05	AVG
0.4820	34.28	9.55	43.83	56.30	-12.47	peak
0.4820	25.90	9.55	35.45	46.30	-10.85	AVG
0.7340	31.80	9.55	41.35	56.00	-14.65	peak
0.8020	21.19	9.55	30.74	46.00	-15.26	AVG
1.1700	19.76	9.56	29.32	46.00	-16.68	AVG
1.4220	30.90	9.56	40.46	56.00	-15.54	peak

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Version.1.3

Page 14 of 46



Temperature:				Model Name :		B55	
1			Relative Hu	imidity:	24%		
Pressure:	1010hPa		Phase :		N		
Test Voltage : DC 5V from adapter A0 120V/60Hz		AC Test Mode:	Test Mode:		Mode 1		
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark	
0.1780	30.35	9.54	39.89	64.57	-24.68	peak	
0.2420	27.42	9.54	36.96	62.02	-25.06	peak	
0.3860	31.34	9.54	40.88	58.15	-17.27	peak	
0.8060	28.55	9.54	38.09	56.00	-17.91	peak	
3.2380	24.41	9.59	34.00	56.00	-22.00	peak	
0.1860	16.89	9.54	26.43	54.21	-27.78	AVG	
0.3860	21.60	9.54	31.14	48.15	-17.01	AVG	
0.7380	16.02	9.54	25.56	46.00	-20.44	AVG	
3.2860	8.75	9.59	18.34	46.00	-27.66	AVG	
. All readings ar 2. Factor = Inser	e Quasi-Peak ar tion Loss + Cable	nd Average values.			Limit: AVG:		
. All readings ar 2. Factor = Inser							
. All readings ar 2. Factor = Inser							
. All readings ar 2. Factor = Inser		4			AVG:		
. All readings ar Factor = Inser 100.0 dBuV	tion Loss + Cable		Marrie Martine		AVG:		
. All readings ar . Factor = Inser 100.0 dBuV	tion Loss + Cable	4			AVG:	rulu vuluu vuluu peak	
. All readings ar 2. Factor = Inser 100.0 dBuV	tion Loss + Cable	4	Marrie Martine		AVG:	peak	
. All readings ar 2. Factor = Inser 100.0 dBuV	tion Loss + Cable	4	Marrie Martine		AVG:		
All readings ar E. Factor = Inser	tion Loss + Cable	4	Marrie Martine		AVG:		
All readings ar E. Factor = Inser	tion Loss + Cable	4	Marrie Martine		AVG:		

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7.1.8 RADIATED SPURIOUS EMISSION

7.1.9 Applicable Standard

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

7.1.10 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

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
ĺ	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)		
Γιεφαειτογ(ινιτιΖ)	PEAK	AVERAGE	
Above 1000	74	54	

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

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



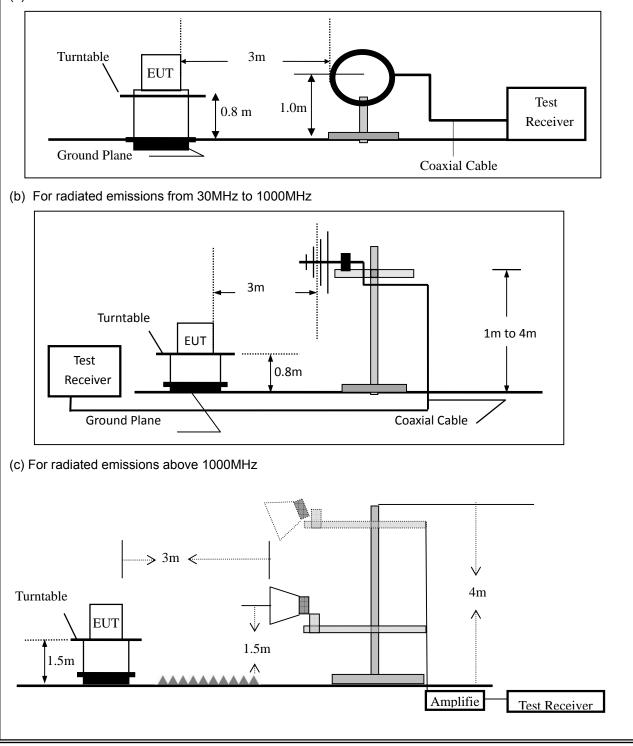
7.1.11 Measuring Instruments

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

7.1.12 Test Configuration

(a) For radiated emissions below 30MHz



Version.1.3



7.1.13 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. Use 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 / 10Hz for Average	

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 to	est, the Spectrum An	alyzer was set with the follow	ving 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	10 Hz

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.

7.1.14 Test Results

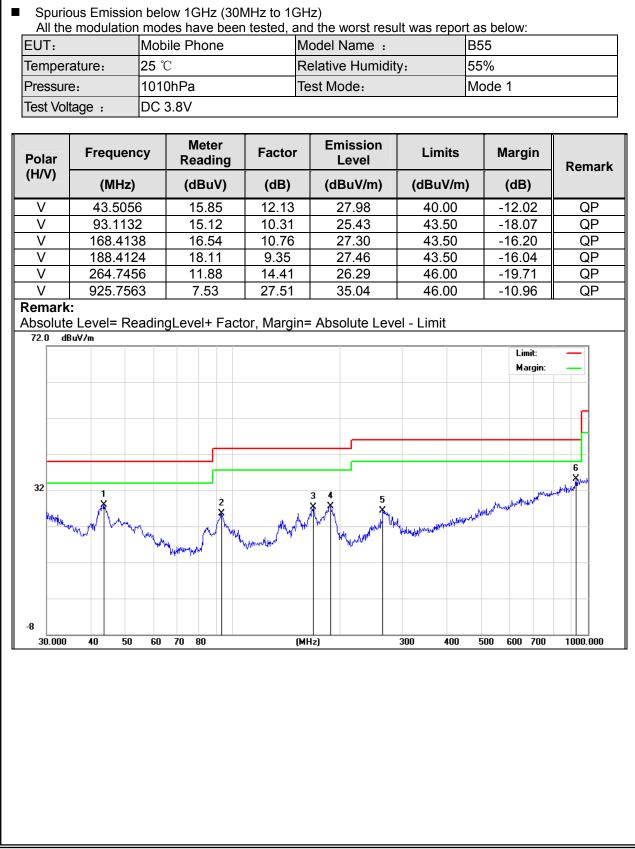
EUT:	Mobile Phone	Model No.:	B55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over	r(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.



'EK 北测



Version.1.3

Page 20 of 46



HVV Keading Level Rei (HVV) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) H 95.0930 17.69 10.29 27.98 43.50 -15.52 C H 151.5971 14.84 11.87 26.71 43.50 -16.79 C H 187.0956 16.24 9.48 25.72 43.50 -17.78 C H 261.0582 13.50 14.85 28.35 46.00 -20.32 C H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit -10.42 C 72.0 dBuV/m
H 151.5971 14.84 11.87 26.71 43.50 -16.79 C H 187.0956 16.24 9.48 25.72 43.50 -17.78 C H 261.0582 13.50 14.85 28.35 46.00 -17.65 C H 303.5437 10.68 15.00 25.68 46.00 -20.32 C H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit -10.42 C 72.0 dBuV/m -10.42 C -10.42 C 32 -10.42 -10.42 C -10.42 C 32 -10.42 -10.42 C -10.42 C 32 -11.2 -12.32 -14.33 -10.42 C 32 -11.2 -12.33 -14.33 -10.42 C 33 -10.42 -14.43 -14.43 -14.43 -14.43 -14.43 -14.43 -14.43 -14.43 -14.43 -14.
H 151.5971 14.84 11.87 26.71 43.50 -16.79 C H 187.0956 16.24 9.48 25.72 43.50 -17.78 C H 261.0582 13.50 14.85 28.35 46.00 -17.65 C H 303.5437 10.68 15.00 25.68 46.00 -20.32 C H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit -10.42 C 72.0 dBuW/m Margin: Margin: - 32 1 2 3 4 5 32 1 2 3 4 5 -
H 187.0956 16.24 9.48 25.72 43.50 -17.78 C H 261.0582 13.50 14.85 28.35 46.00 -17.65 C H 303.5437 10.68 15.00 25.68 46.00 -20.32 C H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit -10.42 C 72.0 dBuV/m dBuV/m Margin:
H 261.0582 13.50 14.85 28.35 46.00 -17.65 C H 303.5437 10.68 15.00 25.68 46.00 -20.32 C H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m dBuV/m 72.0 dBuV/m dBuV/m data and and and and and and and and and an
H 303.5437 10.68 15.00 25.68 46.00 -20.32 C H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit Imit: Imit:
H 952.0937 7.18 28.40 35.58 46.00 -10.42 C Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m
Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m
32 4
-8 30.000 40 50 60 70 80 (MHz) 300 400 500 600 700 1000

Version.1.3

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Page 21 of 46



Spurious	Emissio	n Above 1	GHz (1Gł	Iz to	25G	Hz)		-				
EUT:		Mobile P	bile Phone Model No.:					B55				
Temperature	:	20 ℃		Relative Humidity:					48%			
Test Mode:		Mode2/N	lode3/Mod	le4	Test	By:		Cheng Jiawen				
Frequency	Read Level	Cable loss	Antenna Factor		amp ctor	Emission Level	Lim	its	Margin	Rema	ark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(d	IB)	(dBµV/m)	(dBµ∖	//m)	(dB)			
			Low Cha	nnel	(2402	MHz)(GFS	()Abo	ve 10	6			
4804	69.51	5.21	35.59	44	.30	66.01	74.(00	-7.99	Pk		Vertical
4804	46.70	5.21	35.59	44	.30	43.20	54.0	00	-10.80	AV		Vertical
7206	70.32	6.48	36.27	44	.60	68.47	74.(00	-5.53	Pk		Vertical
7206	45.06	6.48	36.27	44	.60	43.21	54.0	00	-10.79	AV		Vertical
4804	70.59	5.21	35.55	44	.30	67.05	74.(00	-6.95	Pk	ŀ	lorizontal
4804	47.93	5.21	35.55	44	.30	44.39	54.0	00	-9.61	AV	ŀ	lorizontal
7206	68.20	6.48	36.27	44	.52	66.43	74.00		-7.57	Pk	ŀ	lorizontal
7206	48.99	6.48	36.27	44	.52	47.22	54.0	00	-6.78	AV	ŀ	lorizontal
	Mid Channel (2440 MHz)(GFSK)Above 1G											
4880	68.60	5.21	35.66	44	.20	65.27	74.(00	-8.73	Pk		Vertical
4880	49.20	5.21	35.66	44	.20	45.87	54.0	00	-8.13	AV		Vertical
7320	68.67	7.10	36.50	44	.43	67.84	74.(00	-6.16	Pk		Vertical
7320	47.84	7.10	36.50	44	.43	47.01	54.(00	-6.99	AV		Vertical
4880	68.14	5.21	35.66	44	.20	64.81	74.(00	-9.19	Pk	ŀ	Iorizontal
4880	48.75	5.21	35.66	44	.20	45.42	54.(00	-8.58	AV	ŀ	Iorizontal
7320	70.00	7.10	36.50	44	.43	69.17	74.(00	-4.83	Pk	ŀ	lorizontal
7320	47.32	7.10	36.50	44	.43	46.49	54.0	00	-7.51	AV	ŀ	lorizontal
			High Cha	nnel	(2480	MHz)(GFSk	K) Abo	ove 10	G			
4960	68.03	5.21	35.52	44	.21	64.55	74.(00	-9.45	Pk		Vertical
4960	48.22	5.21	35.52	44	.21	44.74	54.0	00	-9.26	AV		Vertical
7440	68.81	7.10	36.53	44	.60	67.84	74.(00	-6.16	Pk		Vertical
7440	46.34	7.10	36.53	44	.60	45.37	54.0	00	-8.63	AV		Vertical
4960	69.58	5.21	35.52	44	.21	66.10	74.(00	-7.90	Pk	H	Iorizontal
4960	49.71	5.21	35.52	44	.21	46.23	54.(00	-7.77	AV	H	lorizontal
7440	68.61	7.10	36.53	44	.60	67.64	74.(00	-6.36	Pk	H	Iorizontal
7440	48.92	7.10	36.53	44	.60	47.95	54.(00	-6.05	AV	H	Iorizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.



	Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz												
ΕL	UT: Mobile Phone						l No.:		B55				
Те	Temperature: 20 °C Relative H						ive Humidit	y:	48%				
Те	Test Mode: Mode2/ Mode4 Test By: Cheng Jiawen												
	Frequency Meter Reading Cable Loss Antenna Factor Preamp Factor Emission Level Limits Margin Detector Comment												
	(MHz) (dBµV) (dB) dB/m (dB)					(dBµV/m)	(dBµ	V/m)	(dB)	Туре			
						G	FSK						

				G	SFSK				
2310.00	69.76	2.97	27.80	43.80	56.73	74	-17.27	Pk	Horizontal
2310.00	45.28	2.97	27.80	43.80	32.25	54	-21.75	AV	Horizontal
2310.00	69.27	2.97	27.80	43.80	56.24	74	-17.76	Pk	Vertical
2310.00	49.64	2.97	27.80	43.80	36.61	54	-17.39	AV	Vertical
2390.00	70.21	3.14	27.21	43.80	56.76	74	-17.24	Pk	Vertical
2390.00	50.37	3.14	27.21	43.80	36.92	54	-17.08	AV	Vertical
2390.00	68.95	3.14	27.21	43.80	55.50	74	-18.50	Pk	Horizontal
2390.00	46.01	3.14	27.21	43.80	32.56	54	-21.44	AV	Horizontal
2483.50	70.83	3.58	27.70	44.00	58.11	74	-15.89	Pk	Vertical
2483.50	49.12	3.58	27.70	44.00	36.40	54	-17.60	AV	Vertical
2483.50	70.54	3.58	27.70	44.00	57.82	74	-16.18	Pk	Horizontal
2483.50	46.80	3.58	27.70	44.00	34.08	54	-19.92	AV	Horizontal

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



					<u>MHz-18000M⊦</u> lodel No.:		B55			
emperature: 20 °C Relative						ty:	48%			
est Mode:	М	ode2/ M	ode4	ode4 Test By:			Cheng Jiawen			
						-				
Frequency	Reading Level	Cable Loss	Antenna Factor	Prear Facto		Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB	3) (dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
3260	68.55	4.04	29.57	44.7	70 57.46	7	' 4	-16.54	Pk	Vertical
3260	46.79	4.04	29.57	44.7	70 35.70	5	54	-18.30	AV	Vertical
3260	68.63	4.04	29.57	44.7	70 57.54	7	' 4	-16.46	Pk	Horizontal
3260	45.74	4.04	29.57	44.7	70 34.65	5	54	-19.35	AV	Horizontal
3332	69.74	4.26	29.87	44.4	40 59.47	7	' 4	-14.53	Pk	Vertical
3332	45.16	4.26	29.87	44.4	40 34.89	5	54	-19.11	AV	Vertical
3332	70.77	4.26	29.87	44.4	40 60.50	7	' 4	-13.50	Pk	Horizontal
3332	49.78	4.26	29.87	44.4	40 39.51	5	54	-14.49	AV	Horizontal
17797	48.50	10.99	43.95	43.5	50 59.94	7	'4	-14.06	Pk	Vertical
17797	32.02	10.99	43.95	43.5	50 43.46	5	54	-10.54	AV	Vertical
17788	54.34	11.81	43.69	44.6	65.24	7	' 4	-8.76	Pk	Horizontal
17788	31.39	11.81	43.69	44.6	60 42.29	5	54	-11.71	AV	Horizontal

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



7.2 6DB BANDWIDTH

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.2.3 Measuring Instruments

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

7.2.4 Test Setup

Please refer to Section 6.1 of this test report.

7.2.5 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.

7.2.6 Test Results

EUT:	Mobile Phone	Model No.:	B55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

Test data reference attachment.



7.3 DUTY CYCLE

7.3.1 Applicable Standard

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

7.3.2 Conformance Limit

No limit requirement.

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

a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

b) 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:

1) Set the center frequency of the instrument to the center frequency of the transmission.

2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.

3) Set VBW \geq RBW. Set detector = peak or average.

4) 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 the duty cycle shall not be used if T \leq 16.7 µs.)

Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}

7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	B55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

N/A



7.4 PEAK OUTPUT POWER

7.4.1 Applicable Standard

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

7.4.2 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 6 dBi.

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 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.

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	B55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

Test data reference attachment.



7.5 POWER SPECTRAL DENSITY

7.5.1 Applicable Standard

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

7.5.2 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.

7.5.3 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 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: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 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.



7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	B55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

Test data reference attachment.

Version.1.3



7.6 CONDUCTED BAND EDGE MEASUREMENT

7.6.1 Applicable Standard

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

7.6.2 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.

7.6.3 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 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.

7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	B55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Cheng Jiawen

Test data reference attachment.



7.7 SPURIOUS RF CONDUCTED EMISSIONS

7.7.1 Conformance Limit

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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.

7.7.2 Measuring Instruments

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

7.7.3 Test Setup

Please refer to Section 6.1 of this test report.

7.7.4 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.

7.7.5 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.

Test data reference attachment.



7.8 ANTENNA APPLICATION

7.8.1 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.

7.8.2 Result

N

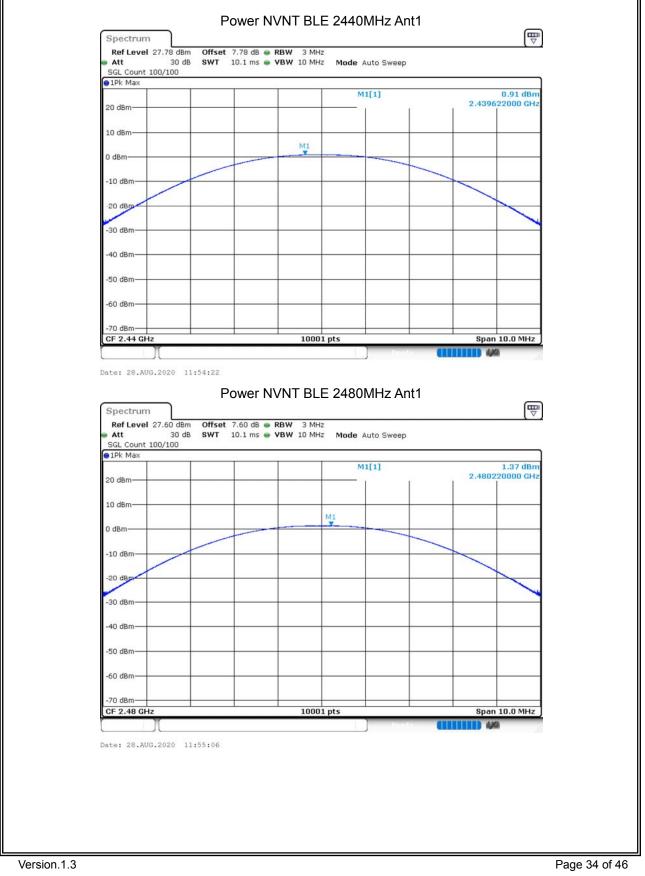
The EUT antenna is permanent attached PIFA antenna (Gain: -0.38dBi). It comply with the standard requirement.



8 TEST RESULTS

			8.1	MAXIMUM CONE	DUCTED OL	JTPUT POW	/ER	
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant 1	1.628	0	1.628	30	Pass
NVNT	BLE	2440	Ant 1	0.909	0	0.909	30	Pass
NVNT	BLE	2480	Ant 1	1.366	0	1.366	30	Pass
	 Att SGL C IPk M 20 dBm 10 dBm 0 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70 dBm CF 2.4 	.evel 27.62 dBm Off 30 dB SW ount 100/100 fax	set 7.62 dB	NT BLE 2402MH	Sweep	1.63 2.40222800		



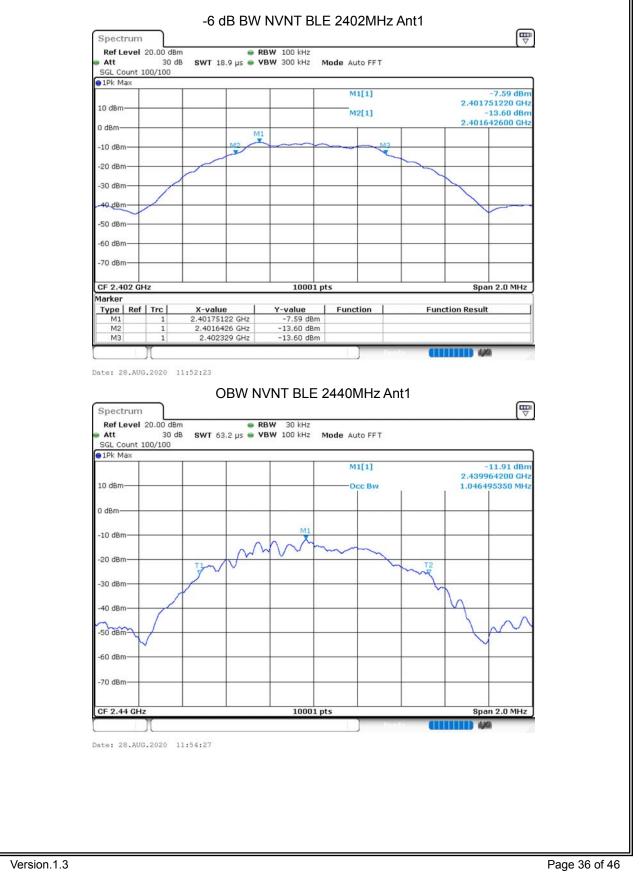




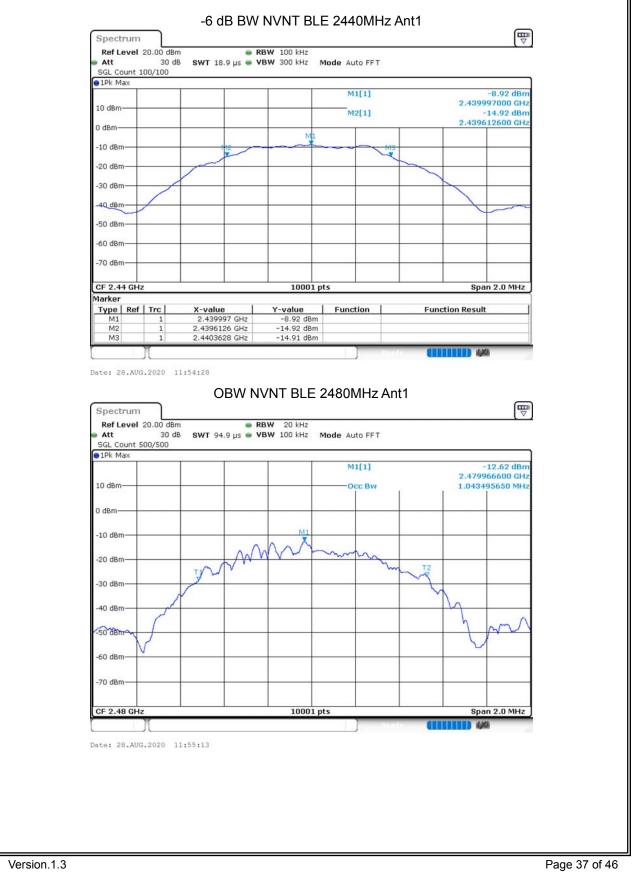
1

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	HANNEL BANDW -6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant 1	1.0471	0.6864	0.5	Pass
NVNT	BLE	2440	Ant 1	1.0465	0.7502	0.5	Pass
NVNT	BLE	2480	Ant 1	1.0435	0.6994	0.5	Pass
	👄 Att	evel 20.00 dBm 30 dB sw punt 100/100	e RBW T 63.2 μs e VBW	100 kHz Mode A	NUTO FFT	-10.45 dBm 2.401972600 GHz 1.047095290 MHz	
	-10 dBr		m	MI			
	-20 dBr	1			T2		
	-40 dBr		_			2	
	-50 dBr					1 mm	
	-60 dBr						
	-70 dBr	n					
	CF 2.4	02 GHz		10001 pts		Span 2.0 MHz	
) and (III)		

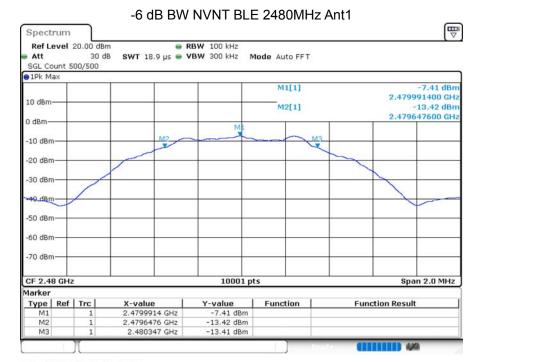












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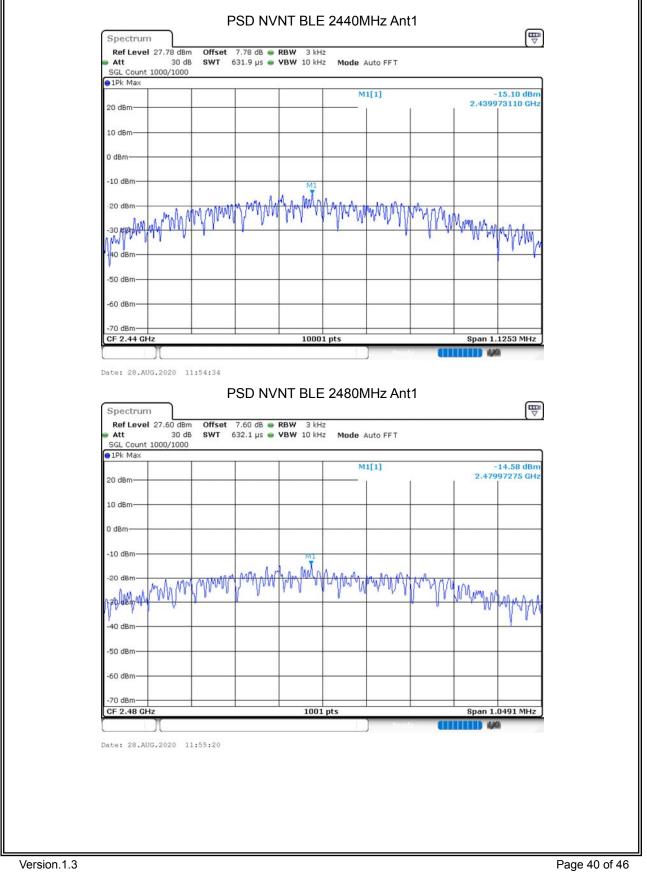
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		:	8.3 MAX	IMUM POWER SPECTRA	AL DENSITY LEVEL	
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)		Verdict
NVNT	BLE	2402	Ant 1	-13.991	8	Pass
NVNT	BLE	2440	Ant 1	-15.102	8	Pass
NVNT	BLE	2480	Ant 1	-14.583	8	Pass
	Ref Att	Ctrum Level 27.62 dBm Offset 7.62 30 dB SWT 633 Count 3000/3000 Max	2 dB 👄 RBW 3	LE 2402MHz Ant1	-13.99 dBm 2.401972820 GHz	
	0 dBn -10 d -20 d	Bm mala MM MMMAM	www.	An many many	Manananan	
	-40 d -50 d -60 d -70 d	Bm	10	0001 pts	Span 1.0296 MHz	
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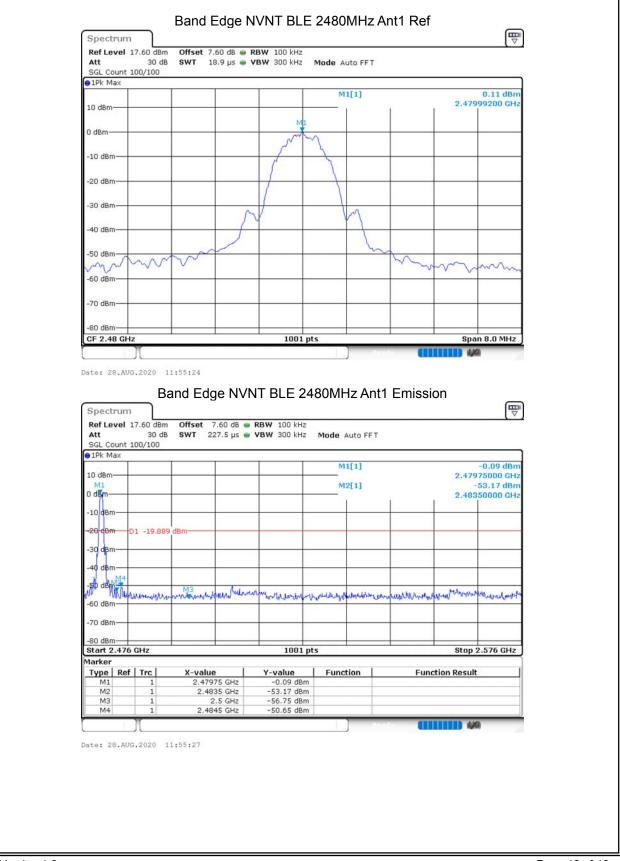
Report No.: S20082700101002





dition	Mode	Frequency	(MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
VNT	BLE	2402		Ant 1	-52.68	-20	Pass
VNT	BLE	2480		Ant 1	-50.75	-20	Pass
<u></u>		00					
		E	Band Ed	ge NVNT I	BLE 2402MHz Ant1	Ref	
	Spe	ctrum		-			
	10.000 40.000			dB - RBW 100			
		Count 100/100	5WI 18.9	hz 🛋 ARM 300	kHz Mode Auto FFT		
	● 1Pk	Max			M1[1]		0.79 dBm
	10 de	3m-					9200 GHz
					MI		
	0 dBr	n			M		
	-10 d	Bm-					
	-20 d	RW					
	-30 d	Bm		~/			
	-40 d	Dee		14	Y \		
	-40 0		A				
	-50 d	Bm				m.	~
	-60 d	Bm				Nr.	v h
	-00 0						
	-70 d	Bm					
	100000						
	-80 d			1	001 pts	Span	8.0 MHz
	-80 d	Bm-		1	001 pts	Span	8.0 MHz
	-80 d CF 2	Bm-	52:36	1	001 pts Bristy	Span	8.0 MHz
	-80 d CF 2	Bm .402 GHz 28.AUG.2020 11:1			Brindy		8.0 MHz
	-80 d CF 2 Date:	Bm .402 GHz 28.AUG.2020 11:1			E 2402MHz Ant1 E		đ
	-80 d CF 2 Date: Spe Ref	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm	offset 7.62	2 dB @ RBW 100	E 2402MHz Ant1 E		8.0 MHz
	-80 d CF 2 Date: Date:	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm	offset 7.62	NVNT BLI	E 2402MHz Ant1 E		đ
	-80 d CF 2 Date: Date:	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm 30 dB Count 100/100	offset 7.62	2 dB @ RBW 100	E 2402MHz Ant1 E	mission	
	-80 d GF 2 Date: Date: Spe Att SGL	Bm .402 GHz 28.AUG.2020 11:1 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm 30 dB Count 100/100 Max	offset 7.62	2 dB @ RBW 100	E 2402MHz Ant1 E	mission	.71 dBm 5000 GHz
	-80 d GF 2 Date: Date: Spe Ref Att SGL @IPk	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm 30 dB Count 100/100 Max	offset 7.62	2 dB @ RBW 100	E 2402MHz Ant1 E	mission 2.4022 -5	(₩) 0.71 dBm 5000 GHz 3.63 (Bm
	-80 d CF 2 Date: Date: Spe Ref Att SGL 0 dBr 0 dBr	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm 30 dB 3 Count 100/100 Max am	offset 7.62	2 dB @ RBW 100	E 2402MHz Ant1 E	mission 2.4022 -5	.71 dBm 5000 GHz
	-80 d CF 2 Date: Date: Spe Ref Att SGL ●1Pk 10 dB 0 dBr -10 d	Bm	offset 7.62 swr 227.	2 dB @ RBW 100	E 2402MHz Ant1 E	mission 2.4022 -5	(₩) 0.71 dBm 5000 GHz 3.63 (Bm
	-80 d GF 2 Date: Date: Spe Ref Att SGL 0 dBr -10 d -20 d	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm 30 dB Count 100/100 Max Bm D1 -19.210 dB	offset 7.62 swr 227.	2 dB @ RBW 100	E 2402MHz Ant1 E	mission 2.4022 -5	(₩) 0.71 dBm 5000 GHz 3.63 (Bm
	-80 d CF 2 Date: Date: Spe Ref Att SGL ●1Pk 10 dB 0 dBr -10 d	Bm .402 GHz 28.AUG.2020 11:1 Ban ctrum Level 17.62 dBm 30 dB Count 100/100 Max Bm D1 -19.210 dB	offset 7.62 swr 227.	2 dB @ RBW 100	E 2402MHz Ant1 E	mission 2.4022 -5	(₩) 0.71 dBm 5000 GHz 3.63 (Bm
	-80 d GF 2 Date: Date: Spe Ref Att SGL 0 dBr -10 d -20 d	Bm D1 -19.210 dB	offset 7.62 swr 227.	2 dB @ RBW 100	E 2402MHz Ant1 E	mission 2.4022 -5	(₩) 0.71 dBm 5000 GHz 3.63 (Bm
	-80 d CF 2 Date: Date: Spe Ref Att SGL ● 1Pk 10 de 0 dBr -10 d -20 d -30 d -40 d	Bm -402 GHz 28.AUG.2020 11:1 Ban Cetrum Cetrum Count 100/100 Max Bm Bm Bm Bm Bm Bm	offset 7.62 swr 227.1	2 dB • RBW 100 5 µs • VBW 300	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.63 tBm 0000 GHz
	-80 d CF 2 Date: Date: Spe Ref Att SGL ● 1Pk 10 de 0 dBr -10 d -20 d -30 d -40 d	Bm -402 GHz 28.AUG.2020 11:1 Ban Cetrum Cetrum Count 100/100 Max Bm Bm Bm Bm Bm Bm	offset 7.62 swr 227.1	2 dB • RBW 100 5 µs • VBW 300	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.63 tBm 0000 GHz
	-80 d CF 2 Date: Date: Spe Ref Att SGL ● 1Pk 10 de 0 dBr -10 d -20 d -30 d -40 d	Bm -402 GHz 28.AUG, 2020 11:1 Ban ctrum Level 17.62 dBm 30 dB 3 Count 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	offset 7.62 swr 227.1	2 dB • RBW 100 5 µs • VBW 300	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.63 tBm 0000 GHz
	-80 d CF 2 Date: Date: Spe Ref Att SGL ● 1Pk 10 dB 0 dBr -10 d -20 d -30 d -30 d -50 d -70 d	Bm -402 GHz 28.AUG.2020 11:1 28.AUG.2020 11:1 Ban Count 100/100 Max Count 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	offset 7.62 swr 227.1	2 dB • RBW 100 5 µs • VBW 300	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.63 tBm 0000 GHz
	-80 d CF 2 Date: Spe Ref 1 Att SGL 0 dBr -10 d -30 d -30 d -40 d -50 d -50 d -70 d -80 d	Bm -402 GHz 28.AUG.2020 11:1 28.AUG.2020 11:1 Ban Count 100/100 Max Count 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	offset 7.62 swr 227.1	2 dB	E 2402MHz Ant1 E	2.4022 	0.71 dBm 5000 GHz 3.63 tBm 0000 GHz
	-80 d CF 2 Date: Spe Ref Att SGL ● IPk 10 dE 0 dBr -10 d -20 d -30 d -30 d -50 d N,000 -70 d -80 d Start Market	Bm -402 GHz 28.AUG.2020 11:1 28.AUG.2020 11:1 Ban Court 100/100 Max Court 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	ad Edge	2 dB	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.69 tBm 0000 GHz
	-80 d CF 2 Date: Date: Spe Ref 1 Att SGL 0 dBr -10 d -30 d -30 d -30 d -30 d -30 d -30 d -70 d Start Marky Typ M	Bm 	Ad Edge	 NVNT BLI 2 dB RBW 100 5 μs VBW 300 	E 2402MHz Ant1 E	2.4022 	0.71 dBm 5000 GHz 3.69 tBm 0000 GHz
	-80 d CF 2 Date: Date: Spe Ref Att SGL ● IPk 10 de 0 dBr -10 d -20 d -30 d -30 d -30 d -50 d N_012 -70 d Start Market Typ. Market Mark	Bm -402 GHz 28.AUG.2020 11:1 28.AUG.2020 11:1 Ban Count 100/100 Max Count 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	Ad Edge	2 dB	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.69 tBm 0000 GHz
	-80 d GF 2 Date: Date: Spe Ref Att SGL • 1Pk 10 dB • 1Pk 10 dB • 1Pk 10 dB • 20 d • 30 d • 30 d • 30 d • 40 d • 30 d • 40 d • 30 d • 40 d • 30 d • 40 d • 40 d • 40 d • 70 d • 80 d • 80 d • 70 d • 80 d • 70 d • 80 d • 70 d • 80 d • 80 d • 70 d • 80 d • 70 d • 80 d • 70 d • 80 d • 70 d • 80 d • 80 d • 70 d • 80 d • 90	Bm -402 GHz 28.AUG.2020 11:1 Ban Cetrum Level 17.62 dBm 30 dB Count 100/100 Max Count 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	nd Edge offset 7.65 swr 227.1 атаритика атаритика атаритика собрание атаритика	PNVNT BLI 2 dB RBW 100 5 μs VBW 300 VBW 300 VBW 300 VBW 300 10 VBW 300 10 VBW 300 10 VBW 300 10 VBW 300 10 VBW 300 VBW 300	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.69 tBm 0000 GHz
	-80 d GF 2 Date: Date: Spe Ref Att SGL • 1Pk 10 dB • 1Pk 10 dB • 1Pk 10 dB • 20 d • 30 d • 30 d • 30 d • 40 d • 30 d • 40 d • 30 d • 40 d • 30 d • 40 d • 40 d • 40 d • 70 d • 80 d • 80 d • 70 d • 80 d • 70 d • 80 d • 70 d • 80 d • 80 d • 70 d • 80 d • 70 d • 80 d • 70 d • 80 d • 70 d • 80 d • 80 d • 70 d • 80 d • 90	Bm -402 GHz 28.AUG.2020 11:1 28.AUG.2020 11:1 Ban Count 100/100 Max Count 100/100 Max Bm Bm Bm Bm Bm Bm Bm Bm Bm Bm	Ad Edge offset 7.65 SWT 227.1 SMT 27.1 SMT 2.40225 2.4 2.39	PNVNT BLI 2 dB RBW 100 5 μs VBW 300 VBW 300 VBW 300 VBW 300 10 VBW 300 10 VBW 300 10 VBW 300 10 VBW 300 10 VBW 300 VBW 300	E 2402MHz Ant1 E	2.4022 -5 2.4000	0.71 dBm 5000 GHz 3.69 tBm 0000 GHz

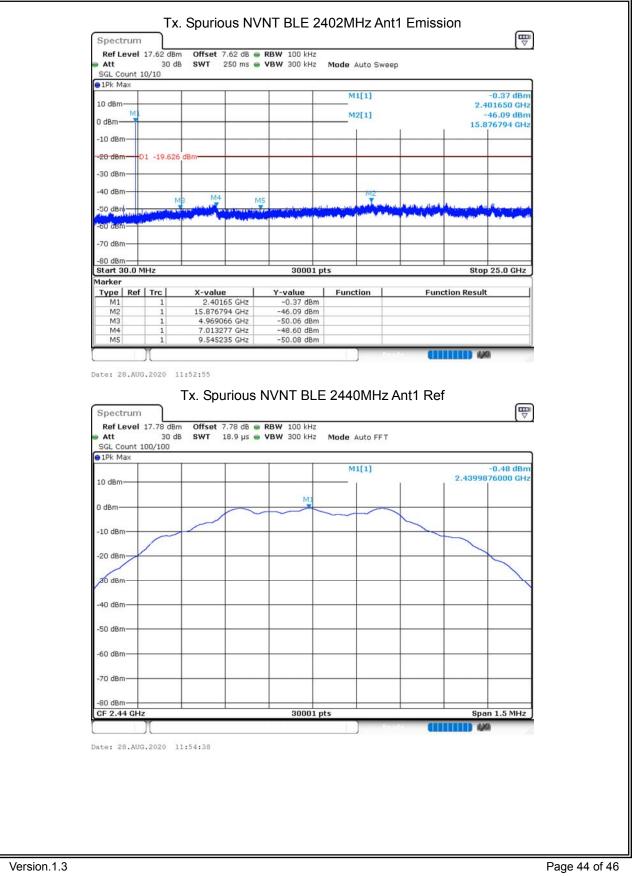




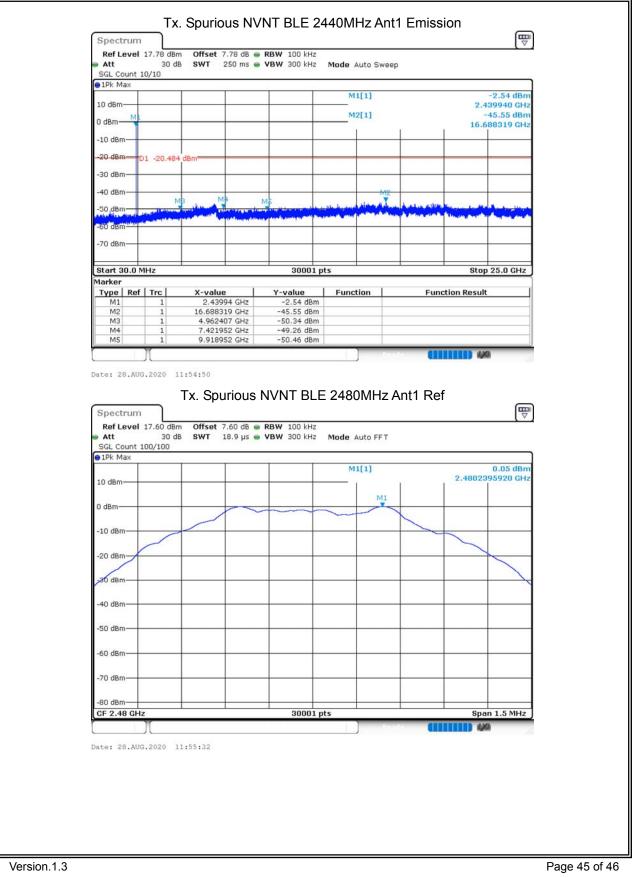
Version.1.3













Att SGL Co		17.60 dBm 30 dB 0/10		 RBW 100 kHz VBW 300 kHz 	Mode Auto S	weep		
●1Pk M	ах							
10 dBm					M1[1]			0.26 dBm 79890 GHz
TO UBIII	MI				M2[1]			45.68 dBm
0 dBm-	-			_	m2[1]			37509 GHz
					1	1	1	100000000000000000000000000000000000000
-10 dBn)							
-20 dBm	- D	1 -19.953	dBm					
-30 dBm							-	
-40 dBm							112	
		N	3 M4	MS	and the second sec		1	Sec
-50 dBn	144	Lauralia	the state of the state	- Internet and the local state			A STATE OF A STATE	
-60 080		And the other distances of the other distance	and the second of	a da anti a ta a ta a ta a ta a ta a ta a t				
-70 dBm	۱						+	
-80 dBm							_	
Start 3		Hz		30001 pt	ts		Stop	25.0 GHz
Marker								
Type	Ref	Trc	X-value	Y-value	Function	Fu	nction Result	
M1		1	2.47989 GHz	0.26 dBm				
M2		1	20.137509 GHz	-45.68 dBm	-			
MЗ	_	1	5.070611 GHz	-50.26 dBm				
M4		1	7.312917 GHz 10.062114 GHz	-49.63 dBm -48.76 dBm				
M5								

END OF REPORT

Version.1.3