

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2101633

FCC REPORT

(Bluetooth)

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-

35 SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: BD4

Trade mark: TECNO

FCC ID: 2ADYY-BD4

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 27 Aug., 2021

Date of Test: 28 Aug., to 08 Sep., 2021

Date of report issued: 08 Sep., 2021

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

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

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	08 Sep., 2021	Original

Tested by:	Mike.ou	Date:	08 Sep., 2021
	Test Engineer		
	1. Timer Thang		

Reviewed by: Date: 08 Sep., 2021

Project Engineer





3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	
5 GENERAL INFORMATION	
5.1 CLIENT INFORMATION	
5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST ENVIRONMENT AND MODE, AND TEST SAMPLES PLANS	
5.4 DESCRIPTION OF SUPPORT UNITS	
5.5 MEASUREMENT UNCERTAINTY	
5.6 ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD	
5.7 LABORATORY FACILITY	
5.8 LABORATORY LOCATION	
5.9 TEST INSTRUMENTS LIST	7
6 TEST RESULTS AND MEASUREMENT DATA	8
6.1 Antenna Requirement	8
6.2 CONDUCTED EMISSIONS	
6.3 CONDUCTED OUTPUT POWER	
6.4 20DB OCCUPY BANDWIDTH	
6.5 CARRIER FREQUENCIES SEPARATION	
6.7 DWELL TIME	
6.8 PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	
6.9 BAND EDGE	
6.9.1 Conducted Emission Method	
6.9.2 Radiated Emission Method	
6.10 Spurious Emission	
6.10.1 Conducted Emission Method	
6.10.2 Radiated Emission Method	
7 TEST SETUP PHOTO	37
8 EUT CONSTRUCTIONAL DETAILS	39

Page 3 of 39





4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna Requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Conducted Peak Output Power	15.247 (b)(1)	Appendix A – BT	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Appendix A – BT	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Appendix A – BT	Pass
Hopping Channel Number	15.247 (a)(1)	Appendix A – BT	Pass
Dwell Time	15.247 (a)(1)	Appendix A – BT	Pass
Conducted Band Edge	45 005 8 45 000	Appendix A – BT	Pass
Radiated Band Edge	15.205 & 15.209	See Section 6.9.2	Pass
Conducted Spurious Emission	45.047(-1)	Appendix A – BT	Pass
Radiated Spurious Emission	15.247(d)	See Section 6.10.2	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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5 General Information

5.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	BD4
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	1.0 dBi
Power supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh
AC adapter:	Model: A8-501000
	Input: AC100-240V, 50/60Hz, 200mA
	Output: DC 5.0V, 1.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation	Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	19 2421MHz 39 2441MHz 59 2461MHz						
Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.							

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5.3 Test environment and mode, and test samples plans

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.
Hopping mode:	Keep the EUT in hopping mode.
Remark	GFSK (1 Mbps) is the worst case mode.

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

Test Samples Plans:	
Samples Number	Used for Test Items
3#	Conducted measurements test method
1#	Radiated measurements test method
1#	EUT constructional details

Remark: Jian Yan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

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5.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

5.9 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	966	01-19-2021	01-18-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-03-2021	03-02-2022
Biconical Antenna	SCHWARZBECK	VUBA9117	359	07-02-2021	07-01-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-03-2021	03-02-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-26-2021	06-25-2022
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919b	
Pre-amplifier	HP	8447D	2944A09358	03-03-2021	03-02-2022
Pre-amplifier	CD	PAP-1G18	11804	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2020	11-17-2021
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-03-2021	03-02-2022
Signal Generator	R&S	SMR20	1008100050	03-03-2021	03-02-2022
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-03-2021	03-02-2022
Cable	MICRO-COAX	MFR64639	K10742-5	03-03-2021	03-02-2022
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-03-2021	03-02-2022
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2020	09-24-2021
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2020	10-31-2021
Simulated Station	Rohde & Schwarz	CMW500	140493	07-16-2021	07-15-2022
10m SAC	ETS	RFSD-100-F/A	Q2005	03-31-2021	04-01-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1249	03-31-2021	04-01-2022
BiConiLog Antenna	SCHWARZBECK	VULB 9168	1250	03-31-2021	04-01-2022
EMI Test Receiver	R&S	ESR 3	102800	04-06-2021	04-07-2022
EMI Test Receiver	R&S	ESR 3	102802	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2016	04-06-2021	04-07-2022
Pre-amplifier	Bost	LNA 0920N	2019	04-06-2021	04-07-2022
Test Software	R&S	EMC32	Version: 10.50.40		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-03-2021	03-02-2022
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-03-2021	03-02-2022
LISN	CHASE	MN2050D	1447	03-03-2021	03-02-2022
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2021	06-17-2022
Cable	HP	10503A	N/A	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	Version: 6.110919b		

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Conducted method:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
Spectrum Analyzer	Keysight	N9010B	MY60240202	11-27-2020	11-26-2021		
Vector Signal Generator	Keysight	N5182B	MY59101009	11-27-2020	11-26-2021		
Analog Signal Generator	Keysight	N5173B	MY59100765	11-27-2020	11-26-2021		
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-27-2020	11-26-2021		
Simulated Station	Rohde & Schwarz	CMW270	102335	11-27-2020	11-26-2021		
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A		
PDU	MWRF-test	XY-G10	N/A	N/A	N/A		
Test Software	MWRF-tes	MTS 8310	Version: 2.0.0.0				
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2021		

6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement:	FCC Part 15 C Section 15.203 & 247(b))
Standard requirement:	FUU Part 15 U Section 15.203 & 247(t	J

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is 1.0 dBi.

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6.2 Conducted Emissions

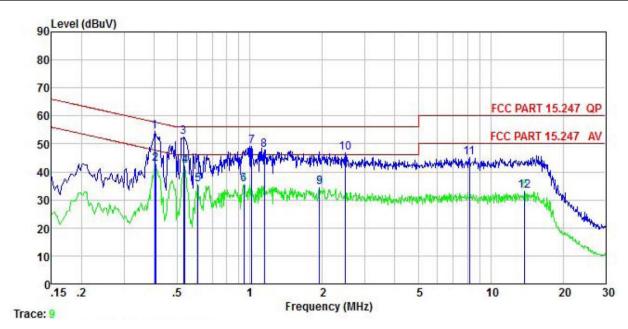
Test Requirement:	FCC Part 15 C Section 15.	207			
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
Limit:	Frequency range (MHz)	Limit (c	dBuV)		
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
Test setup:	* Decreases with the logari	•			
Toot procedure:	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Netwo Test table height=0.8m				
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 				
Test Instruments:	Refer to section 5.9 for det	ails			
Test mode:	Hopping mode				
Test results:	Pass				

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Measurement Data:

Product name:	Mobile Phone	Product model:	BD4
Test by:	Mike	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	₫₿uѶ	dB	dB	dB	dBu₹	₫₿u₹	<u>d</u> B	
1	0.402	43.63	10.28	0.42	0.04	54.37	57.81	-3.44	QP
2	0.406	32.23	10.28	0.36	0.04	42.91	47.73	-4.82	Average
2	0.529	42.56	10.29	-0.36	0.03	52.52	56.00	-3.48	QP
4 5	0.538	32.36	10.29	-0.36	0.03	42.32	46.00	-3.68	Average
5	0.608	25.64	10.30	-0.38	0.02	35.58	46.00	-10.42	Average
6 7	0.943	24.78	10.32	0.30	0.04	35.44	46.00	-10.56	Average
7	1.016	38.44	10.32	0.44	0.05	49.25	56.00	-6.75	QP
8 9	1.147	37.23	10.32	0.30	0.08	47.93	56.00	-8.07	QP
9	1.949	24.42	10.33	-0.29	0.20	34.66	46.00	-11.34	Average
10	2.487	36.73	10.34	-0.26	0.13	46.94	56.00	-9.06	QP
11	8.148	33.11	10.53	1.58	0.10	45.32	60.00	-14.68	QP
12	13.841	19.11	10.74	3.28	0.12	33.25	50.00	-16.75	Average

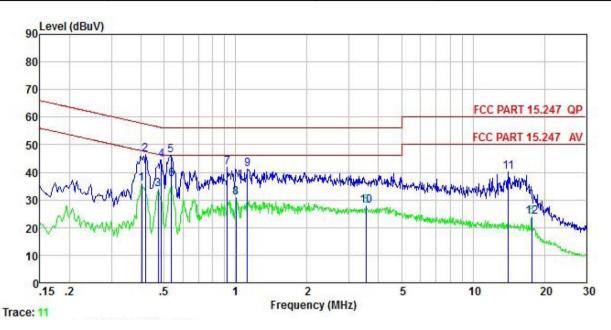
Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.

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Product name:	Mobile Phone	Product model:	BD4
Test by:	Mike	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	<u>d</u> B	dB	dBu₹	dBu∜	<u>d</u> B	
1 2 3	0.402	25.46	10.27	-0.06	0.04	35.71			Average
2	0.417	36.29	10.27	-0.04	0.04	46.56		-10.95	
	0.471	23.44	10.28	0.01	0.03	33.76	46.49	-12.73	Average
4	0.486	34.27	10.28	0.02	0.03	44.60	56.23	-11.63	QP
5	0.535	35.73	10.28	0.03	0.03	46.07	56.00	-9.93	QP
6	0.538	27.18	10.28	0.03	0.03	37.52	46.00	-8.48	Average
4 5 6 7	0.923	31.33	10.31	0.07	0.04	41.75	56.00	-14.25	
8	1.005	20.50	10.31	0.08	0.05	30.94	46.00	-15.06	Average
8	1.123	30.64	10.31	0.09	0.08	41.12		-14.88	
10	3,565	17.19	10.36	0.43	0.08	28.06	46.00	-17.94	Average
11	14.063	26.39	10.71	2.84	0.12	40.06		-19.94	
12	17.661	11.49	10.82	1.47	0.15	23.93			Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Project No.: JYTSZE2108116



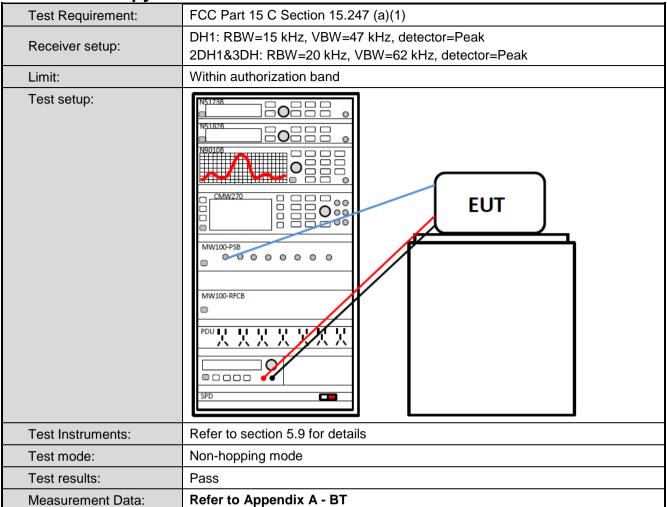
6.3 Conducted Output Power

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Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=2MHz, VBW=6MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test setup:	NS173R NS182R NS010B NS010B NMW100-PS8 NMW10
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT

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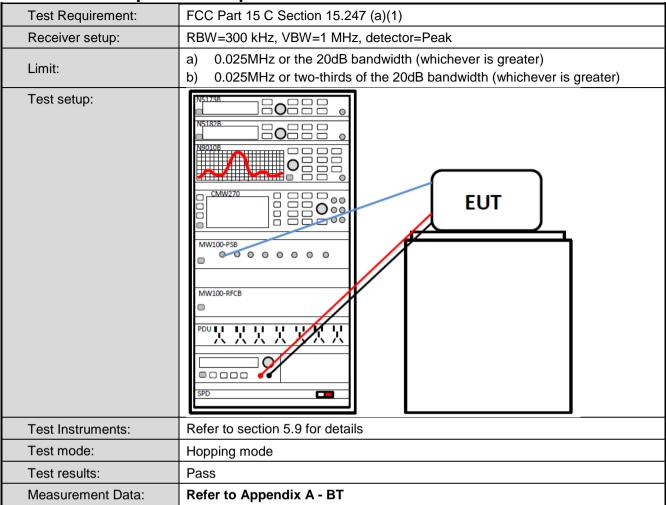
6.4 20dB Occupy Bandwidth



Page 13 of 39



6.5 Carrier Frequencies Separation

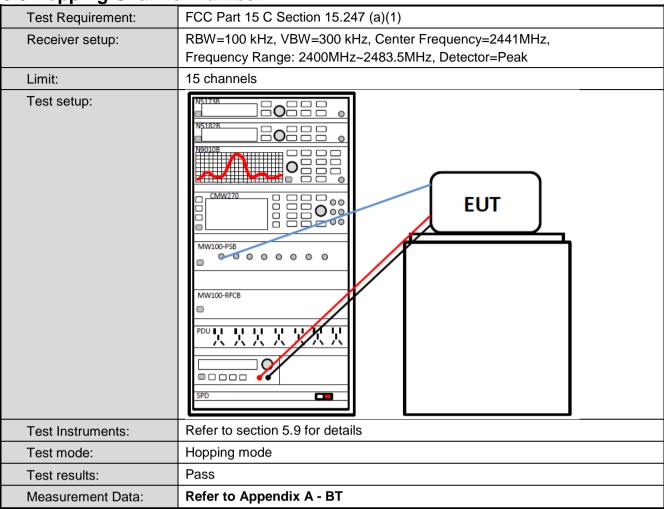


Page 14 of 39





6.6 Hopping Channel Number





6.7 Dwell Time

I					
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)				
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak				
Limit:	0.4 Second				
Test setup:	NS173B				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Hopping mode				
Test results:	Pass				
Measurement Data:	Refer to Appendix A - BT				

Page 16 of 39





6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:

FCC Part 15 C Section 15.247 (a)(1) requirement:

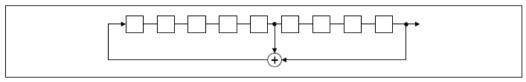
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29-1 = 511 bits
- · Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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6.9 Band Edge

6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	NS102B NS102B NS102B NS102B NS102B NMW100-PSB NMW100-PSB NMW100-PSB NMW100-PSB NMW100-PSB
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode and hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT

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6.9.2 Radiated Emission Method

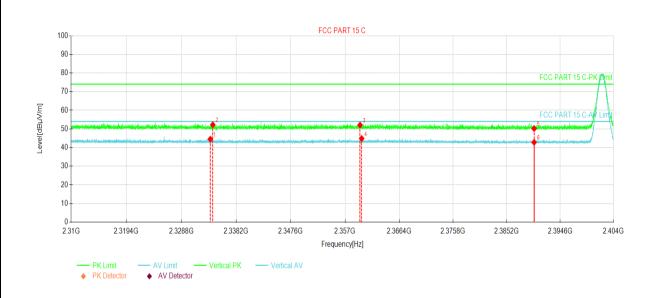
Test Requirement:	FCC Part 15 C	Section 15.	.209	and 15.205			
Test Frequency Range:	2310 MHz to 23	90 MHz ar	nd 24	83.5 MHz to 25	500 M	Hz	
Test Distance:	3m						
Receiver setup:	Frequency Detector RBW VE		VBW		Remark		
	Above 1GHz	Peak		1MHz	31	ИНz	Peak Value
	Above 1GHZ	RMS		1MHz	31	ИНz	Average Value
Limit:	Frequenc	су	Lim	it (dBuV/m @3	3m)		Remark
	Above 1GHz					erage Value	
						Peak Value	
Test setup:	ATEUT Horn Antenna Tower Artenna Tower Ground Reference Plane Test Receiver Test Receiver Toward Reference Plane						
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or 						
Test Instruments:	average method as specified and then reported in a data sheet. Refer to section 5.9 for details						
Test mode:	Non-hopping mode						
Test results:	Passed						

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GFSK Mode:

Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



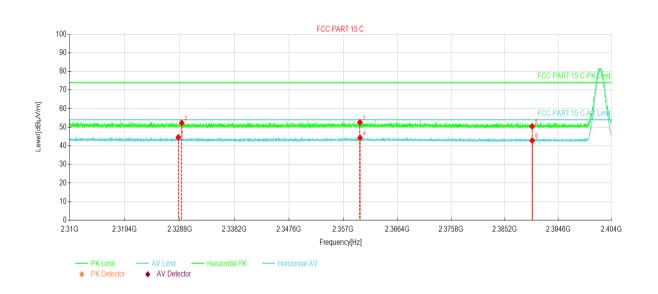
NO.₽	Freq.⊌	Reading∉	Level⊬	Factor⊬	Limit⊬	Margin⊬	Trace	Doloritu
NO.₽	[MHz]∂	[dBµV/m]₽	[dBµV/m]₽	[dB]∂	[dBµV/m]∂	[dB]₽	Trace	Polarity∂
1 ₽	2333.77	37.61₽	44.50₽	6.89₽	54.00₽	9.50₽	AV₽	Vertical₽
2 40	2334.19	45.34	52.23₽	6.89₽	74.00₽	21.77₽	PK₽	Vertical₽
3₽	2359.60	45.09₽	52.07₽	6.98₽	74.00₽	21.93₽	PK₽	Vertical₽
4 0	2359.89	37.86₽	44.84₽	6.98₽	54.00₽	9.16₽	AV₽	Vertical₽
5₽	2390.00	43.10₽	50.18₽	7.08₽	74.00₽	23.82₽	PK₽	Vertical₽
6₽	2390.00	35.74₽	42.82₽	7.08₽	54.00₽	11.18₽	AV₽	Vertical₽

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



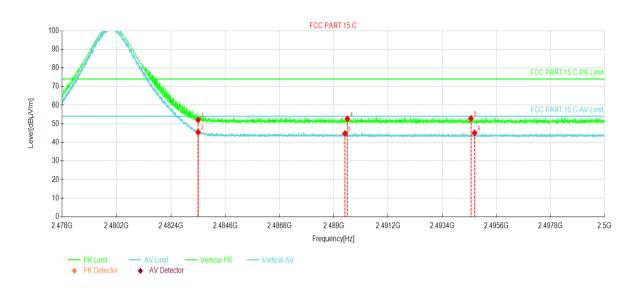
NO.₽	Freq.	Reading⊬	Level	Factor⊬	Limitℯ	Margin⊬	Trace	Polarity∂
NO.	[MHz]∂	[dBµV/m]∂	[dBµV/m]₽	[dB]₽	[dBµV/m]∂	[dB]₽	Hace	Folanty
1 ₽	2328.56	37.65₽	44.52₽	6.87₽	54.00₽	9.48₽	AV₽	Horizontal₽
2 43	2329.14	45.43₽	52.31₽	6.88₽	74.00₽	21.69₽	PK₽	Horizontal₽
3₽	2359.89	45.66₽	52.64₽	6.98₽	74.00₽	21.36₽	PK₽	Horizontal₽
4₽	2359.91	37.31₽	44.29₽	6.98₽	54.00₽	9.71₽	AV₄⋾	Horizontal₽
5₽	2390.00	43.38₽	50.46₽	7.08₽	74.00₽	23.54	PK₽	Horizontal₽
6₽	2390.00	35.75₽	42.83₽	7.08₽	54.00₽	11.17₽	AV₽	Horizontal₽

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Page 21 of 39



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

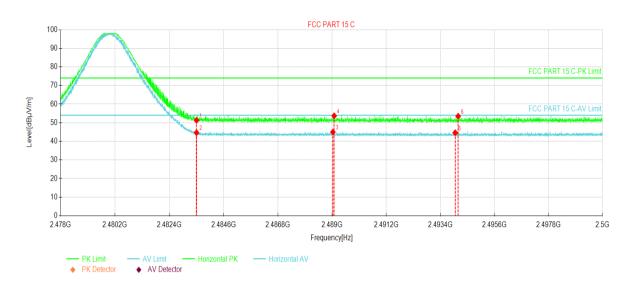


NO.₽	Freq.⊌	Reading⊬	Level	Factor⊬	Limitℯ	Margin⊬	Trace	Polarity∂
	[MHz]∂	[dBµV/m]₽	[dBµV/m]₽	[dB]∂	[dBµV/m]₽	[dB]∂		
1₽	2483.50	44.32₽	52.01₽	7.69₽	74.00₽	21.99₽	PK₽	Vertical₽
2₽	2483.50	37.74₽	45.43₽	7.69₽	54.00₽	8.57₽	AV₽	Vertical₽
3₊□	2489.45	37.01₽	44.74₽	7.73₽	54.00₽	9.26₽	AV₽	Vertical₽
4 ø	2489.54	44.90₽	52.63₽	7.73₽	74.00₽	21.37₽	PK₽	Vertical₽
5⊷	2494.56	45.03₽	52.79₽	7.76₽	74.00₽	21.21₽	PK₽	Vertical₽
6₽	2494.71	37.28₽	45.04₽	7.76₽	54.00₽	8.96₽	AV₽	Vertical₽

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.⊌	Reading⊬	Level⊬	Factor⊬	Limit⊬	Margin⊬	Trace	Dolority
NO.₽	[MHz]∂	[dBµV/m]₽	[dBµV/m]∂	[dB] <i>₀</i>	[dBµV/m]∂	[dB] <i>₀</i>	Hace₽	Polarity∂
1₽	2483.50	43.63₽	51.32₽	7.69₽	74.00₽	22.68₽	PK₽	Horizontal₽
2₊□	2483.50	36.96₽	44.65₽	7.69₽	54.00₽	9.35₽	AV₽	Horizontal₽
3₽	2489.03	37.23₽	44.95₽	7.72₽	54.00₽	9.05₽	AV₽	Horizontal₽
4₽	2489.08	45.96₽	53.68₽	7.72₽	74.00₽	20.32₽	PK₽	Horizontal₽
5₽	2493.99	36.83₽	44.59₽	7.76₽	54.00₽	9.41₽	AV₽	Horizontal₽
6₽	2494.12	45.70₽	53.46₽	7.76₽	74.00₽	20.54₽	PK₽	Horizontal₽

Remark.

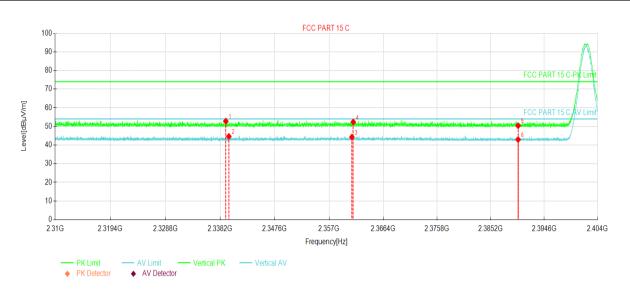
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Page 23 of 39



π/4-DQPSK mode

Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.⊬ [MHz]∂	Reading [dBµV/m]	Level- [dBµV/m]-	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace	Polarity
1₽	2339.17	45.91₽	52.82₽	6.91₽	74.00₽	21.18₽	PK₽	Vertical₽
2₽	2339.70	37.71₽	44.62₽	6.91₽	54.00₽	9.38₽	AV₽	Vertical₽
3₽	2360.97	37.30₽	44.28₽	6.98₽	54.00₽	9.72₽	AV₽	Vertical₽
4₽	2361.20	45.39₽	52.37₽	6.98₽	74.00₽	21.63₽	PK₽	Vertical₽
5₽	2390.00	43.29₽	50.37₽	7.08₽	74.00₽	23.63₽	PK₽	Vertical₽
6₽	2390.00	35.88₽	42.96₽	7.08	54.00₽	11.04₽	AV₽	Vertical₽

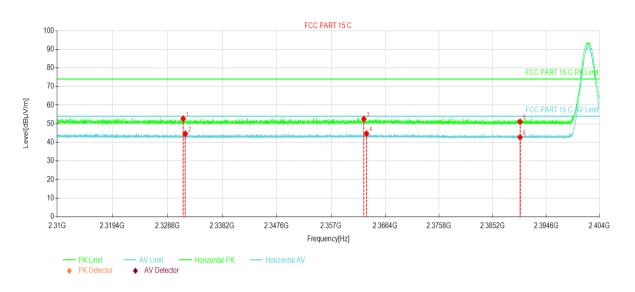
Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Page 24 of 39



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



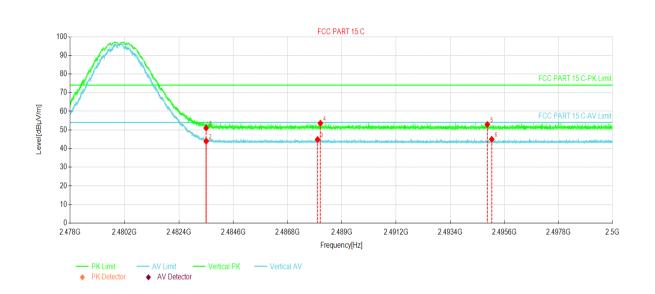
NO.₽	Freq.√ [MHz]∂	Reading⊮ [dBµV/m]⊮	Level√ [dBuV/m]√	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace	Polarity
1₽	2331.51	45.81₽	52.69₽	6.88₽	74.00₽	21.31₽	PK₽	Horizontal₽⊸
2 43	2331.89	37.71₽	44.60₽	6.89₽	54.00₽	9.40₽	AV₄⋾	Horizontal₽
3₊□	2362.71	45.54₽	52.53₽	6.99₽	74.00₽	21.47 ₽	PK₽	Horizontal₽
4₽	2363.15	37.67₽	44.66₽	6.99₽	54.00₽	9.34₽	AV₄⋾	Horizontal₽
5₽	2390.00	43.94₽	51.02₽	7.08₽	74.00₽	22.98₽	PK₽	Horizontal₽
6₽	2390.00	35.62₽	42.70₽	7.08₽	54.00₽	11.30₽	AV₽	Horizontal₽⊸

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Page 25 of 39



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

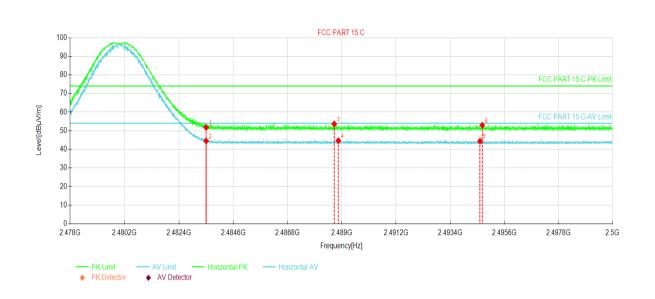


NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]√	Level⊬ [dBµV/m]₽	Factor⊬ [dB]∉	Limit⊍ [dBµV/m]₽	Margin⊬ [dB]⊮	Trace	Polarity∂
1₽	2483.50	43.34₽	51.03₽	7.69₽	74.00₽	22.97₽	PK₽	Vertical₽
2₽	2483.50	36.27₽	43.96₽	7.69₽	54.00₽	10.04₽	AV₄⊃	Vertical₽
3₽	2488.01	37.14₽	44.86₽	7.72₽	54.00₽	9.14₽	AV₄⊃	Vertical₽
4₽	2488.12	45.88₽	53.60₽	7.72₽	74.00₽	20.40₽	PK₽	Vertical₽
5₽	2494.90	45.13₽	52.89₽	7.76₽	74.00₽	21.11₽	PK₽	Vertical₽
6₽	2495.08	37.22₽	44.99₽	7.77₽	54.00₽	9.01₽	AV₽	Vertical₽

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.⊬ [MHz]∂	Reading. [dBµV/m].	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊮	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊮	Trace∂	Polarity∂
1₽	2483.50	44.09₽	51.78₽	7.69₽	74.00₽	22.22₽	PK₽	Horizontal₽
2 ₽	2483.50	36.82₽	44.51₽	7.69₽	54.00₽	9.49₽	AV₽	Horizontal₽
3₽	2488.68	45.89₽	53.61₽	7.72₽	74.00₽	20.39₽	PK₽	Horizontal₽
4₽	2488.85	36.93₽	44.65₽	7.72₽	54.00₽	9.35₽	AV₽	Horizontal₽
5⊷	2494.60	36.63₽	44.39₽	7.76₽	54.00₽	9.61₽	AV₽	Horizontal₽
6₽	2494.70	45.15₽	52.91₽	7.76₽	74.00₽	21.09₽	PK₽	Horizontal₽

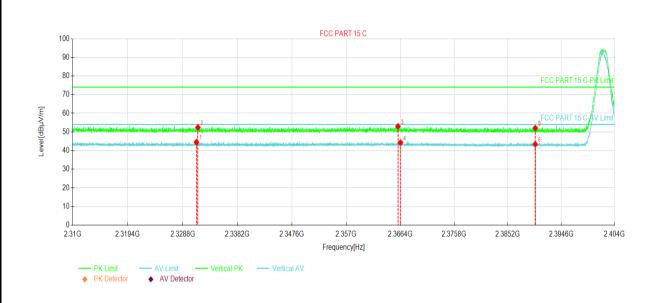
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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8DPSK mode

Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



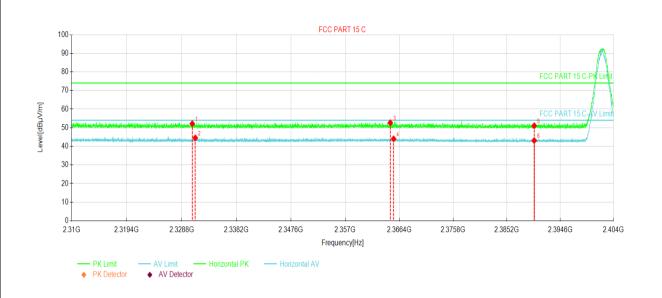
NO.₽	Freq.√ [MHz]∂	Reading⊮ [dBµV/m]⊮	Level⊬ [dBµV/m]₽	Factor⊬ [dB]⊮	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace	Polarity∉
1₽	2331.15	37.63₽	44.51₽	6.88	54.00₽	9.49₽	AV₽	Vertical₽
2₊⋾	2331.40	45.52₽	52.40₽	6.88₽	74.00₽	21.60₽	PK₽	Vertical₽
3₽	2365.98	45.94₽	52.94₽	7.00₽	74.00₽	21.06₽	PK₽	Vertical₽
4 0	2366.42	37.24₽	44.24₽	7.00₽	54.00₽	9.76₽	AV₽	Vertical₽
5₽	2390.00	44.93₽	52.01₽	7.08₽	74.00₽	21.99₽	PK₽	Vertical₽
6₽	2390.00	36.30₽	43.38₽	7.08₽	54.00₽	10.62₽	AV₽	Vertical₽

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



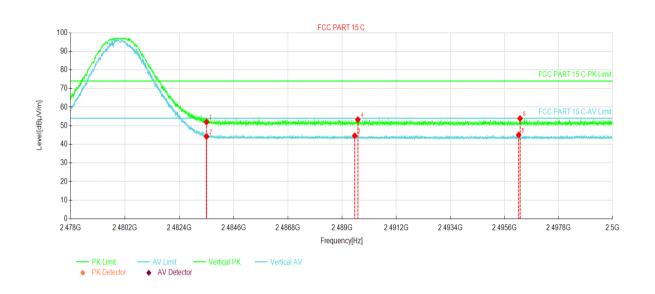
NO.₽	Freq. [MHz]∂	Reading√ [dBµV/m]√	Level. [dBµV/m].	Factor⊬ [dB]⊮	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊮	Trace∂	Polarity
1₽	2330.60	45.28₽	52.16₽	6.88₽	74.00₽	21.84	PK₽	Horizontal₽⊸
2₽	2331.12	37.64₽	44.52₽	6.88₽	54.00₽	9.48₽	AV₽	Horizontal₽⊸
3₽	2364.82	45.68₽	52.67₽	6.99₽	74.00₽	21.33₽	PK₽	Horizontal₽
4₽	2365.41	37.02₽	44.02₽	7.00₽	54.00₽	9.98₽	AV₽	Horizontal₽⊸
5₽	2390.00	43.97₽	51.05₽	7.08₽	74.00₽	22.95₽	PK₽	Horizontal₽⊸
6₽	2390.00	36.04₽	43.12₽	7.08₽	54.004	10.88₽	AV₽	Horizontal₽⊸

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Page 29 of 39



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



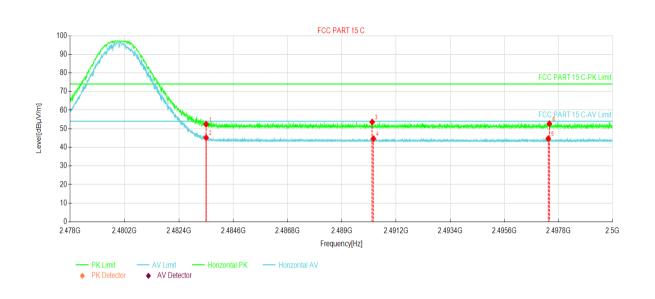
NO.	Freq.	Reading⊮ [dBµV/m]∂	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]∉	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]∉	Trace	Polarity _@
		2000			2	. ,		
1₽	2483.50	44.28₽	51.97₽	7.69₽	74.00₽	22.03₽	PK₽	Vertical₽
2₽	2483.50	36.52₽	44.21₽	7.69₽	54.00₽	9.79₽	AV₽	Vertical₽
3₽	2489.50	36.84₽	44.57₽	7.73₽	54.00₽	9.43₽	AV₽	Vertical₽
4₽	2489.63	45.54₽	53.27₽	7.73₽	74.00₽	20.73₽	PK₽	Vertical₽
5₽	2496.17	37.25₽	45.02₽	7.77₽	54.00₽	8.98₽	AV₽	Vertical₽
6₽	2496.23	46.11₽	53.88₽	7.77₽	74.00₽	20.12₽	PK₽	Vertical₽

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

Page 30 of 39



Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	3DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.₽	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Polarity∂
	[MHz]∘	[dBµV/m]₽	[dBµV/m]₽	[dB]∘	[dBµV/m]₽	[dB]∂		
1 ₽	2483.50	44.67₽	52.36₽	7.69₽	74.00₽	21.64	PK₽	Horizontal₽
2 43	2483.50	37.46₽	45.15₽	7.69₽	54.00₽	8.85₽	AV₽	Horizontal₽
3₊□	2490.22	45.85₽	53.58₽	7.73₽	74.00₽	20.42₽	PK₽	Horizontal₽
4 0	2490.27	36.90₽	44.63₽	7.73₽	54.00₽	9.37₽	AV₽	Horizontal₽
5₽	2497.38	36.91₽	44.69₽	7.78₽	54.00₽	9.31₽	AV₽	Horizontal₽
6₽	2497.42	44.92₽	52.70₽	7.78₽	74.00₽	21.30₽	PK₽	Horizontal₽

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

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Page 31 of 39



6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	NS102R NS
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Measurement Data:	Refer to Appendix A - BT

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6.10.2 Radiated Emission Method

6.10.2 Radiated Emission I	vietnod					
Test Requirement:	FCC Part 15 C Section 15.209					
Test Frequency Range:	9 kHz to 25 GHz					
Test Distance:	3m or 10m					
Receiver setup:	Frequency	Detector			Remark	
	30MHz-1GHz	Quasi-pea	ak 120kHz	300kH	z Quasi-peak Value	
	Above 1GHz	Peak	1MHz	3MHz	z Peak Value	
	Above 1GHz	RMS	1MHz	3MHz	Average Value	
Limit:	Frequenc	y I	Limit (dBuV/m	@10m)	Remark	
	30MHz-88N	ЛHz	30.0		Quasi-peak Value	
	88MHz-216I	MHz	33.5		Quasi-peak Value	
	216MHz-960	216MHz-960MHz 36.0			Quasi-peak Value	
	960MHz-10	GHz	44.0		Quasi-peak Value	
	Frequenc	у	Limit (dBuV/m	@3m)	Remark	
	Above 1GI	H ₇	54.0		Average Value	
	Above 1G	1 14	74.0		Peak Value	
	Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz 1. The EUT was placed on the top of a rotating table 0.8m(below					
Total Diseased in the						
Test Procedure:	1GHz)/1.5m (below 1GH 360 degree	n(above 1Gl lz)or 3 mete s to determi	Hz) above the er chamber(about ne the position	ground a ve 1GHz) of the hig	at a 10 meter chamber. The table was rotated.	

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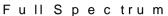
Ī				
	away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.			
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 			
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.			
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.			
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Non-hopping mode			
Test results:	Pass			
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.			
NGIIIdik.	2. 9 kHz to 30 MHz is noise floor and lower than the limit 20dB, so only shows the data of above 30MHz in this report.			

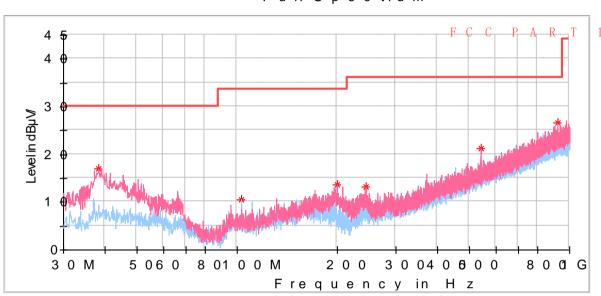


Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	BD4
Test By:	Mike	Test mode:	BT Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical & Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%





-	Frequency↓	MaxPeak↓	Limit↓	Margin↓	Height↓	Pol₽	Azimuth ↓	Corr.↓
	(MHz)∂	(dBµV/m)∂	(dBµV/m)∂	(dB) <i>⊍</i>	(cm) <i>₽</i>		(deg)∂	(dB/m)∂
•	38.342000	17.10₽	30.00₽	12.90↩	100.0₽	V₽	31.0₽	-16.0₽
•	103.138000₽	10.58₽	33.50₽	22.92↩	100.0₽	H₽	258.0↩	-18.6₽
-	200.041000	13.63₽	33.50₽	19.87↵	100.0₽	V₽	193.0₽	-18.3₽
•	244.661000	13.15₽	36.00₽	22.85↩	100.0₽	V₽	141.0↩	-15.7₽
-	540.026000	21.36₽	36.00₽	14.64₽	100.0₽	V₽	150.0↩	-8.0₽
•	921.915000↩	26.57↵	36.00₽	9.43₽	100.0₽	V₽	346.0₽	-0.5₽

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.





Above 1GHz:

		Test ch	annel: Lowest ch	nannel					
		Def	tector: Peak Valu	ie					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4804.00	54.17	-9.60	44.57	74.00	29.43	Vertical			
4804.00	56.03	-9.60	46.43	74.00	27.57	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4804.00	49.94	-9.60	40.34	54.00	13.66	Vertical			
4804.00	48.16	-9.60	38.56	54.00	15.44	Horizontal			
	Test channel: Middle channel								
		Det	tector: Peak Valu	ue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4882.00	54.22	-9.05	45.17	74.00	28.83	Vertical			
4882.00	56.26	-9.05	47.21	74.00	26.79	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4882.00	50.17	-9.05	41.12	54.00 12.88		Vertical			
4882.00	47.80	-9.05	38.75	54.00	15.25	Horizontal			
			annel: Highest ch						
	T	Det	tector: Peak Valu			1			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	54.40	-8.45	45.95	74.00	28.05	Vertical			
4960.00	56.70	-8.45	48.25	74.00	25.75	Horizontal			
		Dete	ctor: Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization			
4960.00	50.26	-8.45	41.81	54.00	12.19	Vertical			

Remark:

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^{1.} Final Level =Receiver Read level + Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





8 EUT Constructional Details

Reference to the test report No.: JYTSZB-R12-2101630.

-----End of report-----