

RADIO TEST REPORT FCC ID: 2A7DX-FITBUDSH1

Product: Wireless Earphone

Trade Mark: Blackview

Model No.: FitBuds H1

Family Model: N/A

Report No.: S25022601904002

Issue Date: Mar. 20, 2025

Prepared for

DOKE COMMUNICATION (HK) LIMITED

19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO KONG KL

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

Tel. 0755-2320 0050 Website: http://www.ntek.org.cn

Version.1.3 Page 1 of 42





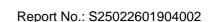
TABLE OF CONTENTS

2 SUMMARY OF TEST RESULTS 5 3 FACILITIES AND ACCREDITATIONS 6 3.1 FACILITIES 6 3.2 LABORATORY ACCREDITATIONS AND LISTINGS 6 3.3 MEASUREMENT UNCERTAINTY 6 4 GENERAL DESCRIPTION OF EUT 7 5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1.1 Applicable Standard 14 7.1.2 CONDUCTED EMISSIONS TEST 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 ROLIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Measuring Instruments 18 7.2.4 Test Configuration 17 7.2.2 Test Procedure 19 7.2.3 Measuring Instruments 18 7.2.4 Test Confi	1 TEST	RESULT CERTIFICATION	4
3 FACILITIES AND ACCREDITATIONS 6 3.1 FACILITIES 6 3.2 LABORATORY ACCREDITATIONS AND LISTINGS 6 3.3 MEASUREMENT UNCERTAINTY 6 4 GENERAL DESCRIPTION OF EUT 7 5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 TEST Procedure 14 7.1.4 TEST Configuration 14 7.1.5 TEST Procedure 14 7.1.1 Applicable Standard 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.1 Applicable Standard 17 7.2.2 Test Procedure 18 7.2.3 Absauring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure	2 SIIM	MARY OF TEST RESULTS	5
3.1 FACILITIES 6 3.2 LABORATORY ACCREDITATIONS AND LISTINGS 6 3.3 MEASUREMENT UNCERTAINTY 6 4 GENERAL DESCRIPTION OF EUT 7 5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITIEMS 12 7 TEST REQUIREMENTS 14 7.1.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.5 Test Procedure 26 7.3.1 Applicabl			
3.2 LABORATORY ACCREDITATIONS AND LISTINGS 6 3.3 MEASUREMENT UNCERTAINTY 6 4 GENERAL DESCRIPTION OF EUT 7 5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 11 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 COnformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Ontiguration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 18 7.2.4 Test Procedure 18 7.2.5 Test Results 26 7.3.1 </td <td>3 FACI</td> <td>LITIES AND ACCREDITATIONS</td> <td>6</td>	3 FACI	LITIES AND ACCREDITATIONS	6
3.3 MEASUREMENT UNCERTAINTY 6 4 GENERAL DESCRIPTION OF EUT 7 5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1.1 CONDUCTED EMISSIONS TEST 14 7.1.2 Conformance Limit 14 7.1.3 Agasawing Instruments 14 7.1.4 Test Procedure 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 GDB BANDWIDTH 26 7.3.1 Applicable Standard <td< td=""><td></td><td></td><td></td></td<>			
4 GENERAL DESCRIPTION OF EUT 7 5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 </td <td>3.2</td> <td>LABORATORY ACCREDITATIONS AND LISTINGS</td> <td>6</td>	3.2	LABORATORY ACCREDITATIONS AND LISTINGS	6
5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1.1 CONDUCTED EMISSIONS TEST 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 GDB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.1 Applicable Standard 26 7.3.2 Test Procedure 26 7.3.3 Test Procedure 26 </td <td>3.3</td> <td>MEASUREMENT UNCERTAINTY</td> <td>6</td>	3.3	MEASUREMENT UNCERTAINTY	6
5 DESCRIPTION OF TEST MODES 9 6 SETUP OF EQUIPMENT UNDER TEST 10 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1.1 CONDUCTED EMISSIONS TEST 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 GDB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.1 Applicable Standard 26 7.3.2 Test Procedure 26 7.3.3 Test Procedure 26 </th <th>4 GEN</th> <th>ERAL DESCRIPTION OF EUT</th> <th>7</th>	4 GEN	ERAL DESCRIPTION OF EUT	7
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Procedure 19 7.2.5 Test Results 20 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Sesults 26 7.3.5 Test Procedure 27			
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 10 6.2 SUPPORT EQUIPMENT 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Procedure 19 7.2.5 Test Results 20 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Sesults 26 7.3.5 Test Procedure 27	6 SETI	IP OF FOLIPMENT LINDER TEST	10
6.2 SUPPORT EQUIPMENTS. 11 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Results 20 7.3 6 Test Results 20 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Procedure 26 7.3.5 Test Procedure 27			
6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 7 TEST REQUIREMENTS 14 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 GDB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Sesults 26 7.3.5 Test Procedure 27 7.4.1 Applicable Standard 27			
7 TEST REQUIREMENTS 14 7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 <td></td> <td></td> <td></td>			
7.1 CONDUCTED EMISSIONS TEST 14 7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.3.6 DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.4.6 Test Results 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit <td< td=""><td></td><td></td><td></td></td<>			
7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Test Setup 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29	7 TEST	REQUIREMENTS	14
7.1.1 Applicable Standard 14 7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Test Setup 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29	71 (CONDUCTED EMISSIONS TEST	14
7.1.2 Conformance Limit 14 7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.3.7 Test Setup 26 7.3.8 Test Setup 26 7.3.9 Test Procedure 26 7.3.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 <t< td=""><td></td><td></td><td></td></t<>			
7.1.3 Measuring Instruments 14 7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.3.7 Test Procedure 26 7.3.8 Measuring Instruments 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29			
7.1.4 Test Configuration 14 7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.3.7 Test Setup 26 7.3.8 Measuring Instruments 26 7.3.9 Test Procedure 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 <		v	
7.1.5 Test Procedure 14 7.1.6 Test Results 15 7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.4.5 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29	7.1.4	· ·	
7.2 RADIATED SPURIOUS EMISSION 17 7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Frocedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance	7.1.5		
7.2.1 Applicable Standard 17 7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29 7.5.5			
7.2.2 Conformance Limit 17 7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29	7.2		
7.2.3 Measuring Instruments 18 7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.3.7 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29			
7.2.4 Test Configuration 18 7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29 <td></td> <td></td> <td></td>			
7.2.5 Test Procedure 19 7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.5.1 Applicable Standard 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29			
7.2.6 Test Results 20 7.3 6DB BANDWIDTH 26 7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29			
7.3 6DB BANDWIDTH			
7.3.1 Applicable Standard 26 7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29			
7.3.2 Conformance Limit 26 7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29 7.5.5 Test Procedure 29			
7.3.3 Measuring Instruments 26 7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29			
7.3.4 Test Setup 26 7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29			
7.3.5 Test Procedure 26 7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29			
7.3.6 Test Results 26 7.4 DUTY CYCLE 27 7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29		<u>*</u>	
7.4.1 Applicable Standard 27 7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29	7.3.6		
7.4.2 Conformance Limit 27 7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29	7.4	DUTY CYCLE	27
7.4.3 Measuring Instruments 27 7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29	7.4.1	Applicable Standard	27
7.4.4 Test Setup 27 7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29	7.4.2	Conformance Limit	27
7.4.5 Test Procedure 27 7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29		Measuring Instruments	27
7.4.6 Test Results 28 7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29		•	
7.5 PEAK OUTPUT POWER 29 7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29	,,,,,		
7.5.1 Applicable Standard 29 7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29			
7.5.2 Conformance Limit 29 7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29			
7.5.3 Measuring Instruments 29 7.5.4 Test Setup 29 7.5.5 Test Procedure 29		••	
7.5.4 Test Setup 29 7.5.5 Test Procedure 29			
7.5.5 Test Procedure			
	7.5.6	Test Results	





7.6	POWER SPECTRAL DENSITY	30
7.6.1	Applicable Standard	30
7.6. 2	Conformance Limit	30
7.6. 3	Measuring Instruments	30
7.6. 4	1 Test Setup	30
7.6.5	5 Test Procedure	30
7.6.6	= + * · · = - · · · · · · · · · · · · · · · ·	
7.7	CONDUCTED BAND EDGE MEASUREMENT	32
7.7.1	TT	
7.7.2	Conformance Limit	32
7.7. 3	Measuring Instruments	32
7.7.4	= 000 00 00 mg	
7.7.5	5 Test Procedure	32
7.7.6	= + * · · = - · · · · · · · · · · · · · · · ·	
7.8	SPURIOUS RF CONDUCTED EMISSIONS	
7.8.1	Conformance Limit	33
7.8.2	Measuring Instruments	33
7.8. 3	B Test Setup	33
7.8.4	Test Procedure	33
7.8.5	= *** = -** ****	
7.9	ANTENNA APPLICATION	
7.9.1		
7.9. 2	Result	34
8 TES	T RESULTS	35
o ils		
8.1	CONDUCTED OUTPUT POWER	35
8.2	99% Bandwidth	36
8.3	6DB BANDWIDTH	
8.4	CONDUCTED OUT OF BAND EMISSION	
8.5	DUTY CYCLE	41
8.6	POWER SPECTRAL DENSITY	42







1 TEST RESULT CERTIFICATION

DOKE COMMUNICATION (HK) LIMITED
19H MAXGRAND PLAZA NO 3 TAI YAU STREET
SAN PO KONG KL
Shenzhen DOKE Electronic Co., Ltd
801, Building3, 7th Industrial Zone, Yulv Community,
Yutang Road, Guangming District, Shenzhen, China.
Wireless Earphone
Blackview
FitBuds H1
N/A
S250226019004
Feb. 26, 2025 ~ Mar. 20, 2025

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.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

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

Prepared .	Yoyo Liang	Reviewed .	Aaron Cheng	Approved .	Alex Li
By ' -	Yoyo Liang (Project Engineer)	Ву	Aaron Cheng (Supervisor)	- By [·]	Alex Li (Manager)

Version.1.3 Page 4 of 42



SUMMARY OF TEST RESULTS

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	Antenna Requirement	PASS			

Remark:

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

Page 5 of 42 Version.1.3



3 FACILITIES AND ACCREDITATIONS

3.1 **FACILITIES**

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

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration
The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

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 : No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan

District, Shenzhen, Guangdong, People's Republic of China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±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%
9	All emissions, radiated(9KHz~30MHz)	±6dB
10	Occupied bandwidth	±3.7dB

Version.1.3 Page 6 of 42



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment Wireless Earphone			
Trade Mark	Blackview		
FCC ID	2A7DX-FITBUDSH1		
Model No.	FitBuds H1		
Family Model	N/A		
Model Difference	N/A		
Operating Frequency	2402~2480 MHz		
Modulation	GFSK		
Number of Channels	40 Channels		
Antenna Type	PCB Antenna		
Antenna Gain	2.02 dBi		
Adapter	N/A		
Battery	DC 3.7V 500mAh 1.85Wh		
Power supply	DC 3.7V from battery or DC 5V from Charge port.		
Hardware version:	JD-JL7018F6-A700-V2.0		
Firmware version:	N/A		
Software version:	V0.0.33		

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

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

Version.1.3 Page 7 of 42





Revision History

Report No.	Version	Description	Issued Date
S25022601904002	Rev.01	Initial issue of report	Mar. 20, 2025

Version.1.3 Page 8 of 42





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/2Mbps 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:

Carrier Frequency and Charmer 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

The following summary	The following summary table is showing all test modes to demonstrate in compliance with the standard.					
	Test Cases					
Test Item Data Rate/ Modulation						
AC Conducted Emission N/A						
	Mode 1: normal link mode					
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps					
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps					
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps					
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps					
Conducted Test Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps					
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps					

Note:

- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)
- 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.

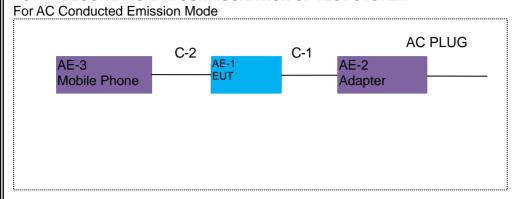
Version.1.3 Page 9 of 42





6 SETUP OF EQUIPMENT UNDER TEST

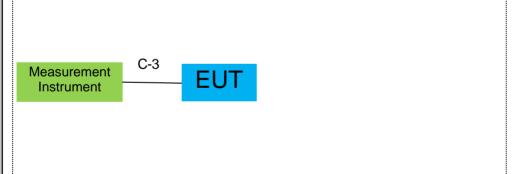
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



For Radiated Test Cases



For Conducted Test Cases



Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Version.1.3 Page 10 of 42



6.2 **SUPPORT EQUIPMENT**

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests

Item	Equipment	Model/Type No.	Series No.	Note
EUT	Wireless Earphone	FitBuds H1	N/A	N/A
AE-2	Adapter	N/A	N/A	Peripherals
AE-3	Mobile phone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.0 m
C-2	USB Cable	NO	NO	0.8 m
C-3	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

Version.1.3 Page 11 of 42



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

adiatic	adiation& Conducted Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	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

Version.1.3 Page 12 of 42





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	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year
4	50Ω COAXIAL SWITCH	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	TEST CABLE (9KHZ-30MH Z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	TEST CABLE (9KHZ-30MH Z)		C02	N/A	2023.05.06	2026.05.05	3 year
7	TEST CABLE (9KHZ-30MH Z)		C03	N/A	2023.05.06	2026.05.05	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.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
2	raditeq	RadiMation	2023.1.3	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test
4	WCS Technology	WCS-WCN	2024.10.29	RF Conducted Test

Version.1.3 Page 13 of 42



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Fraguanay/MHz)	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	

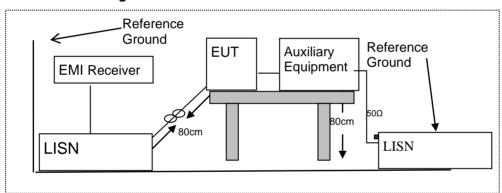
Note: 1. *Decreases with the logarithm of the frequency

- 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.

7.1.3 Measuring Instruments

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

7.1.4 Test Configuration



7.1.5 Test Procedure

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

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 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.

Version.1.3 Page 14 of 42





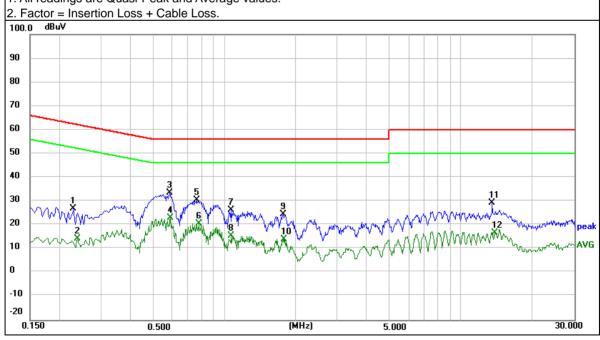
7.1.6 Test Results

EUT:	Wireless Earphone	Model Name:	FitBuds H1
Temperature:	25.6 ℃	Relative Humidity:	56.3%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from adapter AC 230V/50Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	D I -
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2300	16.88	10.16	27.04	62.45	-35.41	QP
0.2380	4.12	10.18	14.30	52.17	-37.87	AVG
0.5860	22.73	10.87	33.60	56.00	-22.40	QP
0.5900	12.04	10.87	22.91	46.00	-23.09	AVG
0.7620	19.17	11.24	30.41	56.00	-25.59	QP
0.7780	9.26	11.28	20.54	46.00	-25.46	AVG
1.0660	14.34	11.88	26.22	56.00	-29.78	QP
1.0660	3.80	11.88	15.68	46.00	-30.32	AVG
1.7660	11.20	13.33	24.53	56.00	-31.47	QP
1.7820	0.70	13.35	14.05	46.00	-31.95	AVG
13.5300	31.35	-1.97	29.38	60.00	-30.62	QP
13.8740	4.99	11.62	16.61	50.00	-33.39	AVG

Remark:

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



Page 15 of 42 Version.1.3



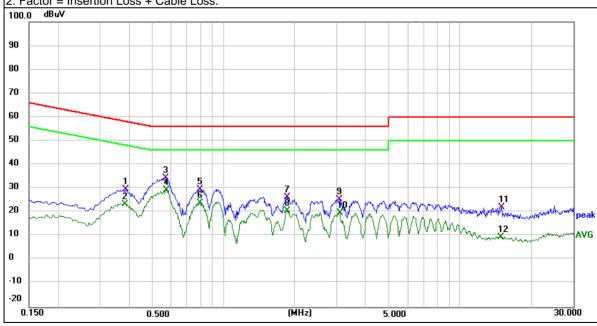


EUT:	Wireless Earphone	Model Name:	FitBuds H1
Temperature:	25.6 ℃	Relative Humidity:	56.3%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V from adapter AC 230V/50Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3860	19.95	9.85	29.80	58.15	-28.35	QP
0.3831	13.61	9.83	23.44	48.21	-24.77	AVG
0.5700	24.41	10.11	34.52	56.00	-21.48	QP
0.5740	19.22	10.11	29.33	46.00	-16.67	AVG
0.7940	19.21	10.58	29.79	56.00	-26.21	QP
0.7940	13.46	10.58	24.04	46.00	-21.96	AVG
1.8580	13.58	12.77	26.35	56.00	-29.65	QP
1.8620	7.82	12.77	20.59	46.00	-25.41	AVG
3.0740	16.32	9.15	25.47	56.00	-30.53	QP
3.0940	10.66	9.15	19.81	46.00	-26.19	AVG
14.9220	11.26	11.03	22.29	60.00	-37.71	QP
14.8420	-1.34	11.01	9.67	50.00	-40.33	AVG

Remark:

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



Version.1.3 Page 16 of 42



Ficate #4298.01 Report No.: \$25022601904002

7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

According to FCC Part15.205, Restricted bands

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

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

controlled barrie operation to 1200(a), then the telegraph with the table below that to be removed.				
Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance		
2400/F(KHz)	20 log (uV/m)	300		
24000/F(KHz)	20 log (uV/m)	30		
30	29.5	30		
100	40	3		
150	43.5	3		
200	46	3		
500	54	3		
	Field Strength (µV/m) 2400/F(KHz) 24000/F(KHz) 30 100 150 200	Field Strength (μV/m) Field Strength (dBμV/m) 2400/F(KHz) 20 log (uV/m) 24000/F(KHz) 20 log (uV/m) 30 29.5 100 40 150 43.5 200 46		

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Version.1.3 Page 17 of 42



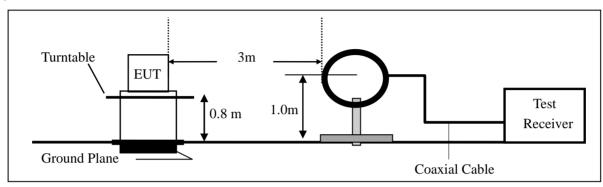
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

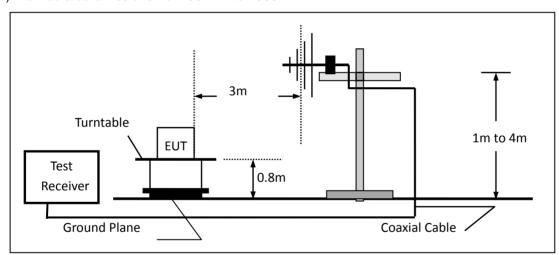
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

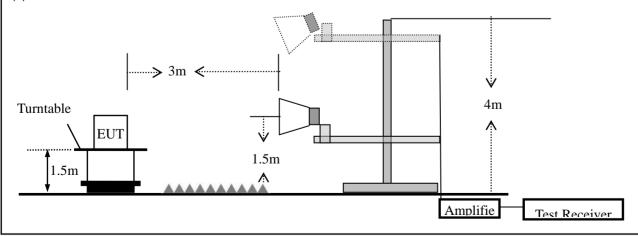
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



Version.1.3 Page 18 of 42







7.2.5 Test Procedure

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

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

good and remember of opening and an any actioning a	.			
Spectrum Parameter	Setting			
Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average			

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

Version.1.3 Page 19 of 42





During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

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

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Wireless Earphone	Model No.:	FitBuds H1					
Temperature:	20 ℃	Relative Humidity:	48%					
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Yoyo Liang					

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

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

Version.1.3 Page 20 of 42





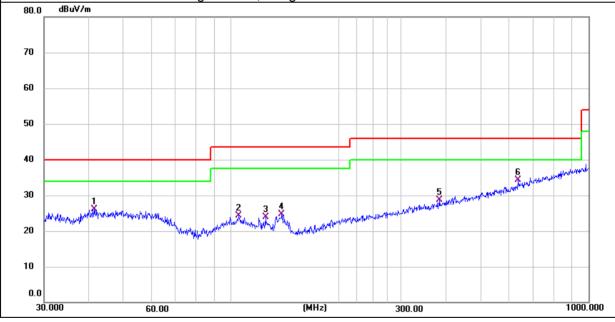
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Wireless Earphone	Model Name:	FitBuds H1			
Temperature:	25.1 ℃	Relative Humidity:	50%			
Pressure:	1010hPa	Test Mode:	Mode 4(GFSK 1Mbps)			
Test Voltage:	DC 5V from adapter AC 230V/50Hz					

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtomant	
V	41.4215	7.20	18.82	26.02	40.00	-13.98	QP	
V	104.9032	6.11	18.19	24.30	43.50	-19.20	QP	
V	125.0065	8.51	15.34	23.85	43.50	-19.65	QP	
V	138.8734	10.20	14.48	24.68	43.50	-18.82	QP	
V	383.9318	6.05	22.60	28.65	46.00	-17.35	QP	
V	636.1340	7.54	26.83	34.37	46.00	-11.63	QP	

Remark:

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



Version.1.3 Page 21 of 42

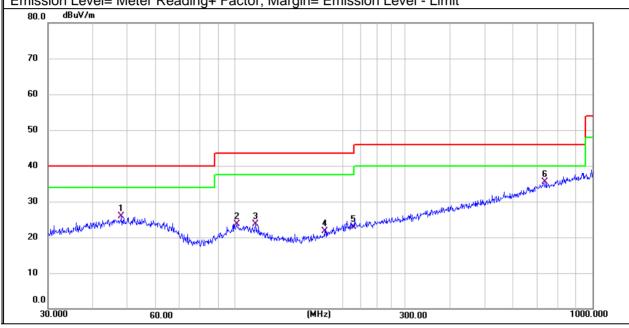




Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	48.1625	6.15	19.69	25.84	40.00	-14.16	QP	
Н	101.2885	5.79	17.92	23.71	43.50	-19.79	QP	
Н	114.1137	6.60	17.11	23.71	43.50	-19.79	QP	
Н	178.1327	5.79	15.97	21.76	43.50	-21.74	QP	
Н	214.5142	4.71	18.24	22.95	43.50	-20.55	QP	
Н	737.0713	6.66	28.83	35.49	46.00	-10.51	QP	

Remark:





Version.1.3 Page 22 of 42





■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Yoyo Liang

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
Low Channel (2402 MHz)(GFSK)Above 1G										
4804.51	67.27	5.21	35.59	44.30	63.77	74.00	-10.23	Pk	Vertical	
4804.51	45.44	5.21	35.59	44.30	41.94	54.00	-12.06	AV	Vertical	
7206.46	68.57	6.48	36.27	44.60	66.72	74.00	-7.28	Pk	Vertical	
7206.46	45.21	6.48	36.27	44.60	43.36	54.00	-10.64	AV	Vertical	
4804.47	65.83	5.21	35.55	44.30	62.29	74.00	-11.71	Pk	Horizontal	
4804.47	46.87	5.21	35.55	44.30	43.33	54.00	-10.67	AV	Horizontal	
7206.69	66.55	6.48	36.27	44.52	64.78	74.00	-9.22	Pk	Horizontal	
7206.69	44.72	6.48	36.27	44.52	42.95	54.00	-11.05	AV	Horizontal	
			Mid (Channel (244	0 MHz)(GFSh	()Above 1G				
4880.49	67.13	5.21	35.66	44.20	63.80	74.00	-10.20	Pk	Vertical	
4880.49	44.82	5.21	35.66	44.20	41.49	54.00	-12.51	AV	Vertical	
7320.64	66.09	7.10	36.50	44.43	65.26	74.00	-8.74	Pk	Vertical	
7320.64	46.37	7.10	36.50	44.43	45.54	54.00	-8.46	AV	Vertical	
4880.29	68.64	5.21	35.66	44.20	65.31	74.00	-8.69	Pk	Horizontal	
4880.29	46.86	5.21	35.66	44.20	43.53	54.00	-10.47	AV	Horizontal	
7320.79	65.75	7.10	36.50	44.43	64.92	74.00	-9.08	Pk	Horizontal	
7320.79	45.97	7.10	36.50	44.43	45.14	54.00	-8.86	AV	Horizontal	
			High (Channel (248	0 MHz)(GFSI	<) Above 1G				
4960.66	68.22	5.21	35.52	44.21	64.74	74.00	-9.26	Pk	Vertical	
4960.66	47.06	5.21	35.52	44.21	43.58	54.00	-10.42	AV	Vertical	
7440.66	66.96	7.10	36.53	44.60	65.99	74.00	-8.01	Pk	Vertical	
7440.66	46.32	7.10	36.53	44.60	45.35	54.00	-8.65	AV	Vertical	
4960.58	65.46	5.21	35.52	44.21	61.98	74.00	-12.02	Pk	Horizontal	
4960.58	46.98	5.21	35.52	44.21	43.50	54.00	-10.50	AV	Horizontal	
7440.72	65.12	7.10	36.53	44.60	64.15	74.00	-9.85	Pk	Horizontal	
7440.72	44.86	7.10	36.53	44.60	43.89	54.00	-10.11	AV	Horizontal	

Note:

- (1) Emission Level= Antenna Factor + Cable Loss + Read Level Preamp Factor
- (2) All other emissions more than 20dB below the limit.
- (3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst

Version.1.3 Page 23 of 42





■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Yoyo Liang

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				1Mbp	s(GFSK)				
2310.00	64.41	2.97	27.80	43.80	51.38	74	-22.62	Pk	Horizontal
2310.00	44.54	2.97	27.80	43.80	31.51	54	-22.49	AV	Horizontal
2310.00	66.26	2.97	27.80	43.80	53.23	74	-20.77	Pk	Vertical
2310.00	45.75	2.97	27.80	43.80	32.72	54	-21.28	AV	Vertical
2390.00	64.56	3.14	27.21	43.80	51.11	74	-22.89	Pk	Vertical
2390.00	46.69	3.14	27.21	43.80	33.24	54	-20.76	AV	Vertical
2390.00	66.09	3.14	27.21	43.80	52.64	74	-21.36	Pk	Horizontal
2390.00	45.76	3.14	27.21	43.80	32.31	54	-21.69	AV	Horizontal
2483.50	66.59	3.58	27.70	44.00	53.87	74	-20.13	Pk	Vertical
2483.50	46.23	3.58	27.70	44.00	33.51	54	-20.49	AV	Vertical
2483.50	64.71	3.58	27.70	44.00	51.99	74	-22.01	Pk	Horizontal
2483.50	45.42	3.58	27.70	44.00	32.70	54	-21.30	AV	Horizontal

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

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

Version.1.3 Page 24 of 42





■ Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Yoyo Liang

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	65.52	4.04	29.57	44.70	54.43	74	-19.57	Pk	Vertical
3260	46.72	4.04	29.57	44.70	35.63	54	-18.37	AV	Vertical
3260	64.78	4.04	29.57	44.70	53.69	74	-20.31	Pk	Horizontal
3260	44.30	4.04	29.57	44.70	33.21	54	-20.79	AV	Horizontal
3332	66.91	4.26	29.87	44.40	56.64	74	-17.36	Pk	Vertical
3332	45.77	4.26	29.87	44.40	35.50	54	-18.50	AV	Vertical
3332	66.62	4.26	29.87	44.40	56.35	74	-17.65	Pk	Horizontal
3332	45.45	4.26	29.87	44.40	35.18	54	-18.82	AV	Horizontal
17797	52.59	10.99	43.95	43.50	64.03	74	-9.97	Pk	Vertical
17797	33.20	10.99	43.95	43.50	44.64	54	-9.36	AV	Vertical
17788	54.46	11.81	43.69	44.60	65.36	74	-8.64	Pk	Horizontal
17788	33.04	11.81	43.69	44.60	43.94	54	-10.06	AV	Horizontal

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

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

Version.1.3 Page 25 of 42







7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

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

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Yoyo Liang

Test data reference attachment.

Version.1.3 Page 26 of 42





7.4 DUTY CYCLE

7.4.1 Applicable Standard

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

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

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

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

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

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

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 8MHz(the largest available value)

 $VBW = 8MHz (\ge RBW)$

Number of points in Sweep >100

Detector function = peak

Trace = Clear write

Measure T_{total} and T_{on}

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

Version.1.3 Page 27 of 42





7.4.6 Test Results

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Yoyo Liang

Test data reference attachment.

Version.1.3 Page 28 of 42

7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

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

7.5.2 Conformance Limit

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

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the RBW ≧ DTS bandwidth.

Set VBW = 3*RBW.

Set the span ≥ 3*RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Wireless Earphone	Model No.:	FitBuds H1	
Temperature:	20 ℃	Relative Humidity:	48%	
Test Mode:	Mode2/Mode3/Mode4	Test By:	Yoyo Liang	

Test data reference attachment.

Version.1.3 Page 29 of 42





7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

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

7.6.2 Conformance Limit

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

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 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.

Version.1.3 Page 30 of 42





7.6.6 Test Results

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Yoyo Liang

Test data reference attachment.

Version.1.3 Page 31 of 42



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

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

7.7.2 Conformance Limit

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

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

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

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

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

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

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Wireless Earphone	Model No.:	FitBuds H1
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Yoyo Liang

Test data reference attachment.

Version.1.3 Page 32 of 42



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

- 1. Below -20dB of the highest emission level in operating band.
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

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

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

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

7.8.5 Test Results

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

Test data reference attachment.

Version.1.3 Page 33 of 42



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 **Result**

The EUT antenna is permanent attached PCB antenna (Gain: 2.02 dBi). It comply with the standard requirement.

Version.1.3 Page 34 of 42



8 TEST RESULTS

8.1 CONDUCTED OUTPUT POWER

Test Result

Mode	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
BLE 1M	0	2.86	≤30	PASS
	19	2.87	≤30	PASS
	39	2.26	≤30	PASS
BLE 2M	0	3.00	≤30	PASS
	19	3.04	≤30	PASS
	39	2.54	≤30	PASS

Version.1.3 Page 35 of 42



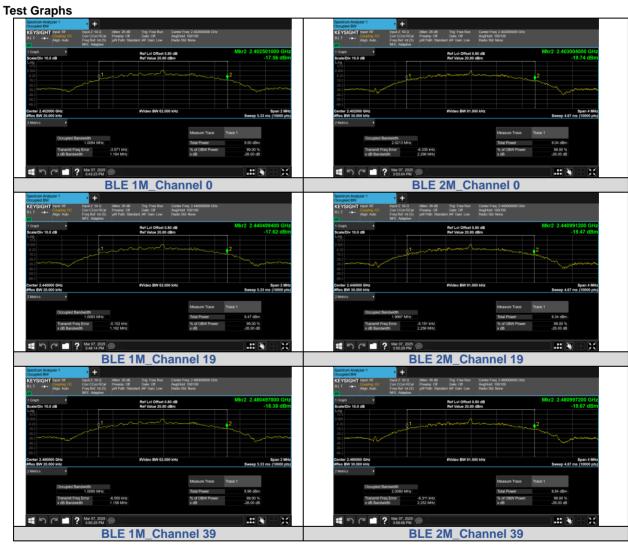


8.299% BANDWIDTH

Test Result

Mode	Channel	Center Frequency (MHz)	99% BW (MHz)
BLE 1M	0	2402	1.0094
BLE 1M	19	2440	1.0093
BLE 1M	39	2480	1.0090
BLE 2M	0	2402	2.0213
BLE 2M	19	2440	1.9997
BLE 2M	39	2480	2.0080





Page 36 of 42 Version.1.3



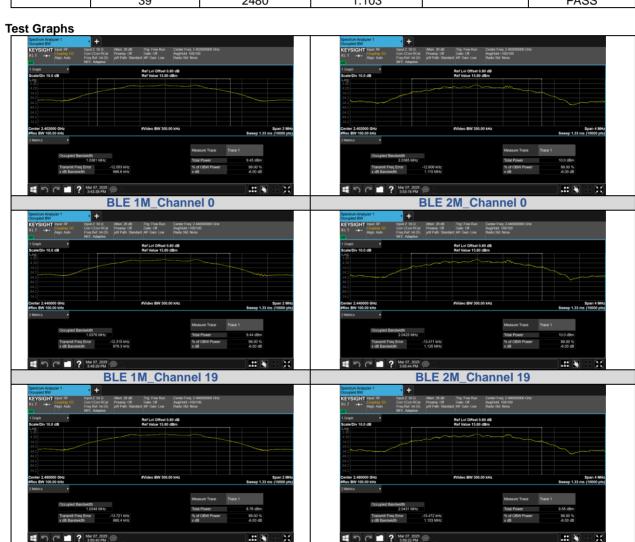




8.36DB BANDWIDTH

Test Result

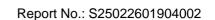
Mode	Channel	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
	0	2402	0.6666		PASS
BLE 1M	19	2440	0.6793		PASS
	39	2480	0.6604	≥0.5	PASS
	0	2402	1.115	≥0.5	PASS
BLE 2M	19	2440	1.125		PASS
	39	2480	1.103		PASS



Version.1.3 Page 37 of 42

BLE 2M_Channel 39

BLE 1M_Channel 39



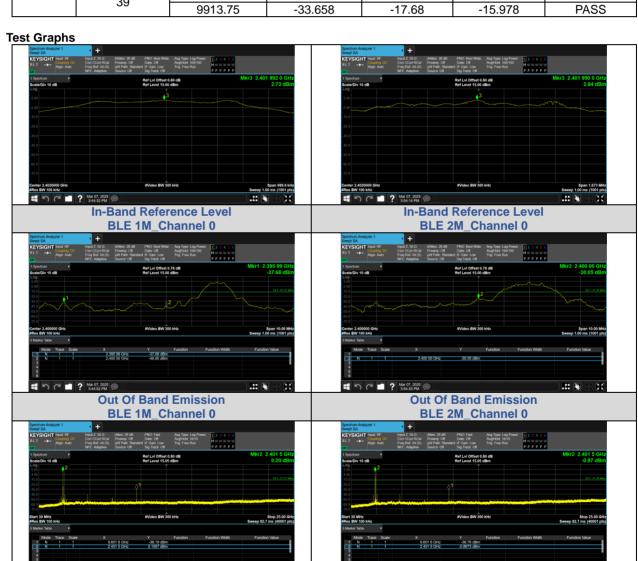




8.4 CONDUCTED OUT OF BAND EMISSION

Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
		2395.99	-37.684	-17.27	-20.414	PASS
	0	2400.00	-46.796	-17.27	-29.526	PASS
BLE 1M		9601.60	-36.187	-17.27	-18.917	PASS
DLE IIVI	19	9753.94	-34.937	-17.25	-17.687	PASS
	39	2483.50	-50.823	-17.81	-33.013	PASS
		9913.75	-33.736	-17.81	-15.926	PASS
	0	2400.00	-30.050	-17.16	-12.890	PASS
		9601.63	-36.757	-17.16	-19.597	PASS
BLE 2M	19	9753.94	-34.186	-17.15	-17.036	PASS
	30	2483.50	-55.350	-17.68	-37.670	PASS
	39	9913.75	-33.658	-17.68	-15.978	PASS



Version.1.3 Page 38 of 42

... 📡

30.0 MHz - 25000.0 MHz

BLE 1M_Channel 0

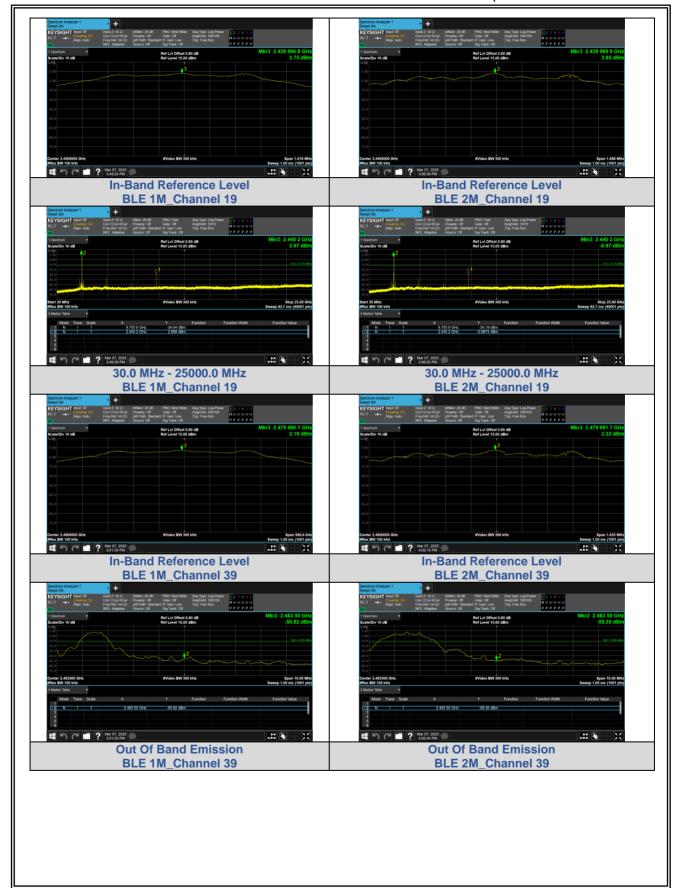
1 5 C 2 3:54:45 PM

30.0 MHz - 25000.0 MHz

BLE 2M_Channel 0







Version.1.3 Page 39 of 42







Version.1.3 Page 40 of 42







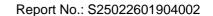
8.5 DUTY CYCLE

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
BLE	0	2.185	2.498	87.48	0.8748	0.5809	0.4577
1M	19	2.186	2.499	87.48	0.8748	0.5809	0.4575
I IVI	39	2.186	2.499	87.48	0.8748	0.5809	0.4575
BLE	0	1.130	2.499	45.22	0.4522	3.4467	0.8850
2M	19	1.130	2.499	45.22	0.4522	3.4467	0.8850
ZIVI	39	1.130	2.499	45.22	0.4522	3.4467	0.8850



Version.1.3 Page 41 of 42



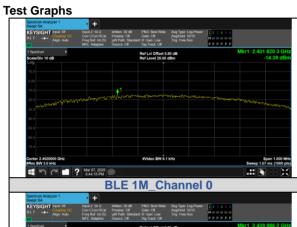


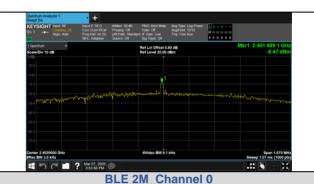


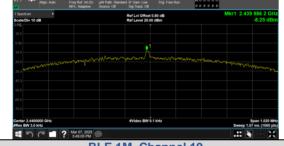
8.6 Power Spectral Density

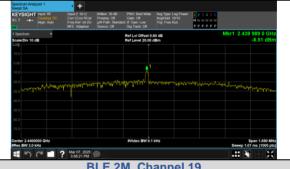
Test Result

Mode	Channel	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
BLE 1M	0	-14.390	≤8	PASS
BLE 1M	19	-8.246	≤8	PASS
BLE 1M	39	-14.382	≤8	PASS
BLE 2M	0	-8.468	≤8	PASS
BLE 2M	19	-8.508	≤8	PASS
BLE 2M	39	-8.979	≤8	PASS











BLE 1M_Channel 39



END OF REPORT

Version.1.3 Page 42 of 42