

Test Report of FCC CFR 47 Part 15 Subpart C

On Behalf of

ShenZhen Weistek Co., Ltd

RooM2301, 29 Nan Huan Gao Xin Road, Shenzhen Overseas Chinese High-Tech Venture Park, Shenzhen, P. R. China

Product Name: **3D Printer**

Model/Type No.: WT800M, MiniToy

Trade Name: WEISTEK

FCC ID: 2AIFS-WT800M

Prepared By: Shenzhen Hongcai Testing Technology Co., Ltd.

1st-3rd Floor, Building C, Shuanghuan Xin Yi Dai Hi-Tech Industrial

Park, No.8 Baoqing Road, Baolong Industrial Zone, Longgang

District, Shenzhen, Guangdong, China

Tel: +86-755-86337020 Fax:+86-755-86337028

Report Number: HCT16ER102E-1

Tested Date: June 20~July 1, 2016

Issued Date: July 1, 2016

Tested By: Haiqing.Zhao/ Haiqing Than

Reviewed By: Dum yang

Owen.Yang

EMC Technical Supervisor

Approved By:

Tony Wu

EMC Technical Manager



TABLE OF CONTENTS

1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	1.	GENERAL INFORMATION	
1.3 TEST FACILITY. 2. SYSTEM TEST CONFIGURATION. 6. 2.1 EUT CONFIGURATION. 6. 2.2 EUT EXERCISE 6. 2.1 GENERAL TEST PROCEDURES. 6. 2.3 GENERAL TEST PROCEDURES. 7. 2.5 MEASUREMENT UNCERTAINTY 6. 2.5 MEASUREMENT UNCERTAINTY 7. 2.6 LIST OF MEASURING EQUIPMENTS USED. 8. 3. SUMMARY OF TEST RESULTS 9. 4. TEST OF AC POWER LINE CONDUCTED EMISSION. 10. 4.1 APPLICABLE STANDARD. 10. 4.2 TEST SETUP DIAGRAM. 10. 4.3 TEST RESULT. 11. 5. OUTPUT POWER MEASUREMENT 11. 5.1 APPLICABLE STANDARD. 13. 5.2 FUT SETUP. 13. 5.3 TEST EQUIPMENT LIST AND DETAILS. 13. 5.4 TEST OF PROCEDURE. 13. 5.5 TEST RESULT. 14. 6. TEST OF PEAK POWER SPECTRAL DENSITY. 15. 6.1 APPLICABLE STANDARD. 15. 6.1 APPLICABLE STANDARD. 16. 15 FEST OF DEAK POWER SPECTRAL DENSITY. 16. 1.4 FUT SETUP. 17. 1.5 TEST OF DEAK POWER SPECTRAL DENSITY. 18. 6.1 APPLICABLE STANDARD. 19. 6.1 APPLICABLE STANDARD. 19. 6.1 APPLICABLE STANDARD. 19. 6.1 TEST COUPMENT LIST AND DETAILS. 19. 6.2 EUT SETUP. 19. 6.3 TEST EQUIPMENT LIST AND DETAILS. 19. 6.3 TEST EQUIPMENT LIST AND DETAILS. 19. 6.4 TEST PROCEDURE. 19. 7. TEST OF OBD BANDWIDTH. 20. 7. TEST OF OBD BANDWIDTH. 21. 7. TEST OF OBD BANDWIDTH. 22. 21. 7. SETUP. 23. TEST EQUIPMENT LIST AND DETAILS. 24. TEST OF CONDUCTED SPURIOUS EMISSION. 25. TEST OF CONDUCTED SPURIOUS EMISSION. 27. SETS TEQUIPMENT LIST AND DETAILS. 27. 8. TEST OF RADIATED SPURIOUS EMISSION. 29. 11 ALIMITS. 20. 20. 12 EUT SETUP. 20. 12 EUT SETUP. 21. TEST OF BAND EDGES EMISSION. 22. PUT SETUP. 23. TEST OF BAND EDGES EMISSION. 24. TEST OF BAND EDGES EMISSION. 25. TEST OF BAND EDGES EMISSION. 26. TEST OF BAND EDGES EMISSION. 27. TEST OF PROCEDURE. 28. TEST OF PROCEDURE. 29. 13. TEST EQUIPMENT LIST AND DETAILS. 29. 14. TEST PROCEDURE. 29. 13. TEST EQUIPMENT LIST AND DETAILS. 29. 14. TEST PROCEDURE. 29. 13. TEST OF BAND EDGES EMISSION. 29. 14. TEST TEST COLUPMENT LIST AND DETAILS. 29. 14. TEST TEST COLUPMENT LIST AND DETAILS. 29. 15. TEST OF BAND EDGES EMISSION. 29. 14. TEST TEST TE			
2. SYSTEM TEST CONFIGURATION 6 2. 1 EUT CONFIGURATION 6 2. 2 EUT EXERCISE 6 2. 3 GENERAL TEST PROCEDURES. 6 2. 4 MEASUREMENT UNCETAINTY 6 2. 5 MEASURE RESULTS EXPLANATION EXAMPLE 7 2. 6 LIST OF MEASURING EQUIPMENTS USED 8 3. SUMMARY OF TEST RESULTS 9 4. TEST OF AC POWER LINE CONDUCTED EMISSION 10 4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 10 5. OUTPUT POWER MEASUREMENT 11 5. 1 APPLICABLE STANDARD 13 5. 2 EUT SETUP 13 5. 2 EUT SETUP 13 5. 4 TEST PROCEDURE 13 5. 4 TEST FROCEDURE 13 6. 1 EST OF PEAK POWER SPECTRAL DENSITY 15 6. 1 EST OF PEAK POWER SPECTRAL DENSITY 15 6. 1 EST OF PEAK POWER SPECTRAL DENSITY 15 6. 1 EST OF PEAK POWER SPECTRAL DENSITY 15 6. 1 EST OF PEAK POWER SPECTRAL DENSITY 15 6. 1 EST OF SUBJUCIAL STANDARD 15 6. 2 TEST FESULT 16 7. 1 EST O			
2.1 EUT CONFIGURATION 6 2.2 EUT EXERCISE			
2.2 EUT EXERCISE 2.3 GENERAL TEST PROCEDURES 2.3 GENERAL TEST PROCEDURES 2.4 MEASUREMENT UNCERTAINTY 4.6 2.5 MEASUREMENT UNCERTAINTY 4.7 2.6 LIST OF MEASURING EQUIPMENTS USED 4.7 3. SUMMARY OF TEST RESULTS 5. SUMMARY OF TEST RESULTS 9. 4. TEST OF AC POWER LINE CONDUCTED EMISSION 4.1 APPLICABLE STANDARD 4.1 APPLICABLE STANDARD 4.2 TEST SETUP DIAGRAM 4.1 APPLICABLE STANDARD 4.3 TEST RESULT 5. OUTPUT POWER MEASUREMENT 5. OUTPUT POWER MEASUREMENT 5. TO UTPUT POWER MEASUREMENT 5. TO UTPUT POWER MEASUREMENT 5. TEST ESTUP 5. TEST SETUP 5. TEST OF PEAK POWER SPECTRAL DENSITY 5. TEST SETUP 5. TEST OF PEAK POWER SPECTRAL DENSITY 5. TEST SETUP 5. TEST OF SOB BANDWIDTH 7. TEST OF GOB BANDWIDTH 7. TEST OF GOB BANDWIDTH 7. TEST OF GOB BANDWIDTH 7. TEST OF SOB BANDWIDTH 7. TEST OF SOB BANDWIDTH 7. TEST OF SOB BANDWIDTH 7. TEST SETUP 7. TEST OF SOB BANDWIDTH 7. TEST SETUP 7. TEST OF SOB BANDWIDTH 7. TEST SETUP 7. TEST OF CONDUCTED SPURIOUS EMISSION 7. TEST SETUP 7. TEST SET SETUP 7. TEST SETUP 7. TEST SET SETUP 7. TEST	2.		_
2.3 GENERAL TEST PROCEDURES 2.4 MEASUREMENT UNCESTAINTY 3.6 LIST OF MEASURE RESULTS EXPLANATION EXAMPLE 2.5 MEASURE RESULTS EXPLANATION EXAMPLE 3.5 SUMMARY OF TEST RESULTS 3.5 SUMMARY OF TEST RESULTS 3.5 SUMMARY OF TEST RESULTS 4.1 APPLICABLE STANDARD 4.1 APPLICABLE STANDARD 4.2 TEST SETUP DIAGRAM 4.3 TEST RESULT 5.0 OUTPUT POWER MEASUREMENT 5.5 OUTPUT POWER MEASUREMENT 5.5 OUTPUT POWER MEASUREMENT 5.5 JEST ESULT 5.6 SUMMERS 5.6 TEST OF PEAR POWER SPECTRAL DENSITY 6.1 APPLICABLE STANDARD 5.6 CLEUT SETUP 5.6 STEST OF PEAR POWER SPECTRAL DENSITY 5.6 STEST OF DEAR POWER SPECTRAL DENSITY 5.7 TEST OF ORD BANDWIDTH 7.1 APPLICABLE STANDARD 5.7 TEST OF SUMMERS 5.7 T			
2.4 MEASUREMENT UNCERTAINTY 6 2.5 MEASURE RESULTS EXPLANATION EXAMPLE 7 2.6 LIST OF MEASURING EQUIPMENTS USED 8 3. SUMMARY OF TEST RESULTS 9 4. TEST OF AC POWER LINE CONDUCTED EMISSION 10 4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 10 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EGUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST GOUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27			
2.5 MEASURE RESULTS EXPLANATION EXAMPLE. 7 2.6 LIST OF MEASURING EQUIPMENTS USED. 8 3. SUMMARY OF TEST RESULTS. 9 4. TEST OF AC POWER LINE CONDUCTED EMISSION 10 4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 11 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 6.7 TEST OF BOB BANDWIDTH 15 7. TEST OF 6DB BANDWIDTH 15 7. TEST OF 6DB BANDWIDTH 15 7. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 APPLICABLE STANDARD 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 APPLICABLE STANDARD 32 9.1 1 AIMITS 32 9.1.1 LIMITS 33 10. TEST PROCEDURE 35 10.1 TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.1 APPLICABLE STAN			
2.6 LIST OF MEASURING EQUIPMENTS USED 8 3. SUMMARY OF TEST RESULTS 9 4. TEST OF AC POWER LINE CONDUCTED EMISSION 10 4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.2 TEST SETUP DIAGRAM 10 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.5 TEST RESULT 14 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 60B BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT			
3. SUMMARY OF TEST RESULTS 9 4. TEST OF AC POWER LINE CONDUCTED EMISSION 10 4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 10 5. OUTPUT POWER MEASUREMENT 11 5. OUTPUT POWER MEASUREMENT 11 5.1 EST ETUP 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.5 TEST OF 6DB BANDWIDTH 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.5 TEST RESULT			
4. TEST OF AC POWER LINE CONDUCTED EMISSION 10 4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 10 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.5 TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.5 TEST OF RADIATED SPURIOUS EMISSION 27 8.1 TEST OF RADIATED SPURIOUS EMISSION 22 9.1 RADIATED SPURIOUS EMISSION 32	2		
4.1 APPLICABLE STANDARD 10 4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 10 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 60B BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8. TEST GUIPMENT LIST AND DETAILS 27 8. TEST GUIPMENT LIST AND DETAILS 27 8. TEST GUIPMENT LIST AND DETAILS 27 8. TEST FRESULT 27 8. TEST OF RADIATED SPUR			
4.2 TEST SETUP DIAGRAM 10 4.3 TEST RESULT 10 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST EQUIPMENT LIST AND DETAILS 13 6.6 TEST OF PEAK POWER SPECTRAL DENSITY 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 15 6.5 TEST RESULT 16 6.5 TEST EQUIPMENT LIST AND DETAILS 15 6.5 TEST EQUIPMENT LIST AND DETAILS 15 6.5 TEST EQUIPMENT LIST AND DETAILS 15 6.5 TEST RESULT 16 7.1 APPLICABLE STANDARD 12 7.1 APPLICABLE STANDARD 12 7.2 EUT SETUP 12 7.3 TEST EQUIPMENT LIST AND DETAILS 12 7.4 TEST PROCEDURE 17 7.5 TEST RESULT 12 7.5 TEST RESULT 12 7.6 TEST OF CONDUCTED SPURIOUS EMISSION 17 8.1 APPLICABLE STANDARD 12 8.1 APPLICABLE STANDARD 12 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 17 8.3 TEST EQUIPMENT LIST AND DETAILS 17 8.4 TEST PROCEDURE 12 8.5 TEST OF CONDUCTED SPURIOUS EMISSION 15 8.1 APPLICABLE STANDARD 15 8.1 APPLICABLE STANDA	4.		
4.3 TEST RESULT. 10 5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.5 TEST RESULT 27 9. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 <			
5. OUTPUT POWER MEASUREMENT 11 5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 </td <td></td> <td></td> <td></td>			
5.1 APPLICABLE STANDARD 13 5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 8.5 TEST RESULT 27 8.5 TEST RESULT 27 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32			
5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 32 9.1.3 TEST PROCEDURE 33 <t< td=""><td>5.</td><td>OUTPUT POWER MEASUREMENT</td><td> 11</td></t<>	5.	OUTPUT POWER MEASUREMENT	11
5.2 EUT SETUP 13 5.3 TEST EQUIPMENT LIST AND DETAILS 13 5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 32 9.1.3 TEST PROCEDURE 33 <t< td=""><td></td><td>5.1 APPLICABLE STANDARD</td><td> 13</td></t<>		5.1 APPLICABLE STANDARD	13
5.4 TEST PROCEDURE 13 5.5 TEST RESULT 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.3 TEST PROCEDURE 33 9.1.4 TEST OF BAND EDGES EMISSION 35 10. TEST OF BAND EDGES EMISSION		5.2 EUT SETUP	13
5.5 TEST RESULT. 14 6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 LIMITS 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST PROCEDURE 33 9.1.5 TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45		5.3 TEST EQUIPMENT LIST AND DETAILS	13
6. TEST OF PEAK POWER SPECTRAL DENSITY 15 6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1 TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1 TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD		5.4 TEST PROCEDURE	13
6.1 APPLICABLE STANDARD 15 6.2 EUT SETUP 15 6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST PROCEDURE 33 9.1.5 TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 35 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45			
6.2 EUT SETUP	6.		
6.3 TEST EQUIPMENT LIST AND DETAILS 15 6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45			
6.4 TEST PROCEDURE 15 6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45		6.2 EUT SETUP	15
6.5 TEST RESULT 16 7. TEST OF 6DB BANDWIDTH 21 7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45		6.3 TEST EQUIPMENT LIST AND DETAILS	15
7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45 10.5 TEST RESULT 45		6.4 LEST PROCEDURE	15
7.1 APPLICABLE STANDARD 21 7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45 10.5 TEST RESULT 45		0.5 TEST RESULT	10
7.2 EUT SETUP 21 7.3 TEST EQUIPMENT LIST AND DETAILS 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45 10.5 TEST RESULT 45	7.		
7.3 TEST EQUIPMENT LIST AND DETAILS. 21 7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45			
7.4 TEST PROCEDURE 21 7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 45			
7.5 TEST RESULT 22 8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
8. TEST OF CONDUCTED SPURIOUS EMISSION 27 8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
8.1 APPLICABLE STANDARD 27 8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47	_		
8.2 EUT SETUP 27 8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47	8.		
8.3 TEST EQUIPMENT LIST AND DETAILS 27 8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
8.4 TEST PROCEDURE 27 8.5 TEST RESULT 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
8.5 TEST RESULT. 27 9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
9. TEST OF RADIATED SPURIOUS EMISSION 32 9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
9.1 RADIATED SPURIOUS EMISSION 32 9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47	_		
9.1.1 LIMITS 32 9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47	9.		
9.1.2 EUT SETUP 32 9.1.3 TEST PROCEDURE 33 9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
9.1.3 Test Procedure 33 9.1.4 Test Result 35 10. Test Of Band Edges Emission 45 10.1 Applicable Standard 45 10.2 EUT Setup 45 10.3 Test Equipment List and Details 45 10.4 Test Procedure 45 10.5 Test Result 47			
9.1.4 TEST RESULT 35 10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
10. TEST OF BAND EDGES EMISSION 45 10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
10.1 APPLICABLE STANDARD 45 10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47	40		
10.2 EUT SETUP 45 10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47	10		
10.3 TEST EQUIPMENT LIST AND DETAILS 45 10.4 TEST PROCEDURE 45 10.5 TEST RESULT 47			
10.4 Test Procedure			
10.5 Test Result			
Report No.: HCT16CR102E-1			
	Re	port No.: HCT16CR102E-1	age 2 of



11. ANTENNA REQUIREMENT	50
11.1 STANDARD APPLICABLE	50
11.2 ANTENNA CONNECTED CONSTRUCTION	



Report No.: HCT16CR102E-1 Page 3 of 50



1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	ShenZhen Weistek Co., Ltd
Address of Applicant:	RooM2301, 29 Nan Huan Gao Xin Road, Shenzhen Overseas Chinese High-Tech Venture Park, Shenzhen, P. R. China
Manufacturer:	ShenZhen Weistek Co., Ltd
Address of Manufacturer:	RooM2301, 29 Nan Huan Gao Xin Road, Shenzhen Overseas Chinese High-Tech Venture Park, Shenzhen, P. R. China

General Description of E.U.T

Items	Description
EUT Description:	3D Printer
Model No.:	WT800M
Supplementary Model:	MiniToy
Frequency Band:	IEEE 802.11b: 2412MHz~2462MHz;
	IEEE 802.11g : 2412MHz∼2462MHz;
Channel Spacing:	IEEE 802.11b : 5MHz
	IEEE 802.11g : 5MHz
Number of Channels:	IEEE 802.11b :11 Channels;
	IEEE 802.11g :11 Channels;
Transmit Data Rate:	maximum of 54Mbps
Type of Modulation:	IEEE 802.11b: CCK
	IEEE 802.11g: OFDM
Antenna Type:	Internal antenna
Antenna Gain:	2dBi
Power Rating:	DC 24V from adapter
	Model:FSP120-AAAN2
Adapter :	Input: AC100-240V, 1.8A, 50-60Hz
	Output:DC 24V, 5A

Remark:* The test data gathered are from the production sample provided by the manufacturer.

Report No.: HCT16CR102E-1 Page 4 of 50

^{*} Supplementary models have the same circuit, but with different name, WT800M is Production of naming, MiniToy is Sales of naming.



1.2 Test standards

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB558074 D01 V03r03: Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

RSS-GEN Issue 4: General Requirements for Compliance of Radio Apparatus.

RSS 247 Issue 1: Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

1.3 Test Facility

All measurement required was performed at laboratory of Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

FCC - Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December, 2013.

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

Report No.: HCT16CR102E-1 Page 5 of 50



2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the table, which is 0.8 m above ground plane According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in ANSI C63.10-2013.

2.4 Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Transmitter power conducted	+/- 0.57 dB
Transmitter power Radiated	+/- 2.20 dB
Conducted spurious emission 9KHz-40 GHz	+/- 2.20 dB
Occupied Bandwidth	+/- 0.01 dB
Power Line Conducted Emission	+/- 3.20 dB
Radiated Emission	+/- 4.32 dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Report No.: HCT16CR102E-1 Page 6 of 50



2.5 Measure Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable less and attenuator factor. Offset= RF cable less+ attenuator factor.

Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

Equipment	Manufacturer	Model No.	Frequency range(GHz)	Attenuation values(dBm)	
Line	Zhenjiang south electronic	RG316	1-12	0.08	
Connector	Zhenjiang south electronic	SMA-K/N-J	1-12	0.01	



Report No.: HCT16CR102E-1 Page 7 of 50



2.6 List of Measuring Equipments Used

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calibration	Due Calibration
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2015-7-25	2016-7-24
2	BCT-EMC002	EMI Test Receiver	R&S	ES PI	100097	2015-11-1	2016-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2015-7-25	2016-7-24
4	BCT-EMC018	TRILOGBroadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2015-7-25	2016-7-24
5	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2015-11-1	2016-10-31
6	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2015-7-25	2016-7-24
7	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2015-7-25	2016-7-24
8	BCT-EMC032	10dB attenuator	ELECTRO- METRICS	EM-7600	836	2015-7-25	2016-7-24
9	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2015-11-1	2016-10-31
10	BCT-EMC037	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2015-7-25	2016-7-24
11	BCT-EMC039	Horn Antenna	SCHWARZBECK	BBHA 9120D	0437	2015-7-25	2016-7-24
12	BCT-EMC038	Horn Antenna	SCHWARZBECK	BBHA9170	0483	2015-7-25	2016-7-24
13	BCT-EMC050	Pulse power sensor	Anritsu	MA2411B	110553	2015-11-1	2016-10-31
14	BCT-EMC050	Power Meter	Anritsu	ML2487B	100345	2015-11-1	2016-10-31

HONGCAI TESTING

Report No.: HCT16CR102E-1 Page 8 of 50



3. SUMMARY OF Test RESULTS

FCC/IC Rules	Description of Test	Result
FCC §15.207 IC RSS-GEN Clause 8.8	AC Power Line Conducted Emission	Pass
FCC §15.247(b) IC RSS-247 Issue1 Clause 5.4 (4)	Output Power Measurement	Pass
FCC §15.247(e) IC RSS-247 Issue1 Clause 5.2 (2)	Power Spectral Density	Pass
FCC §15.247(a) IC RSS-247 Issue1 Clause 5.2 (1) IC RSS-GEN Clause 6.6	6dB Bandwidth 99%Occupied Bandwidth	Pass
FCC §15.247 (d) IC RSS-247 Issue1 Clause 5.5	Conducted Spurious Emission	Pass
FCC §15.205 and §15.209 IC RSS-247 Issue1 Clause 5.5	Radiated Spurious Emission	Pass
FCC§15.247 (d) and §15.205 and §15.209 IC RSS-247 Issue1 Clause 5.5	Unwanted Emissions	Pass
FCC §15.203/15.247(b)/(c) IC RSS-GEN Clause 8.3	Antenna Requirement	Pass

Report No.: HCT16CR102E-1 Page 9 of 50

Tel: +86 755 86337020(60Lines) Fax: +86 755 86337028 Web: www.hct-test.com



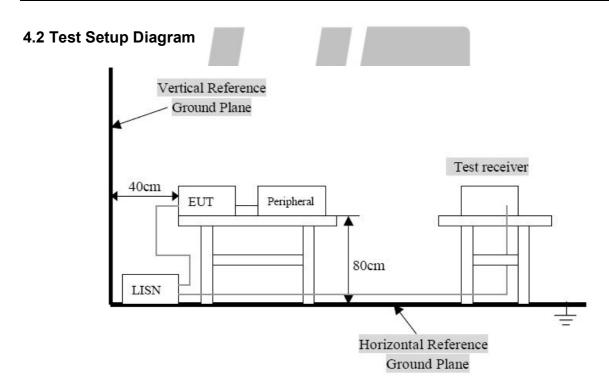
4. Test OF AC POWER LINE CONDUCTED EMISSION

4.1 Applicable standard

Refer to FCC §15.207 and IC RSS-GEN Clause 8.8

For a Low-power Radio-frequency Device is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Eroguenov Bongo (MHz)	Limits (dBuV)				
Frequency Range (MHz)	Quasi-Peak	Average			
0.150~0.500	66∼56	56∼46			
0.500~5.000	56	46			
5.000~30.00	60	50			



Remark: The EUT was connected to a 120 VAC/ 60Hz power source.

4.3 Test Result

PASS

Report No.: HCT16CR102E-1 Page 10 of 50



Conducted Emission Test Data

EUT: 3D Printer M/N: **W008TW Operating Condition:** Tx Mode

Test Site: Shielded Room

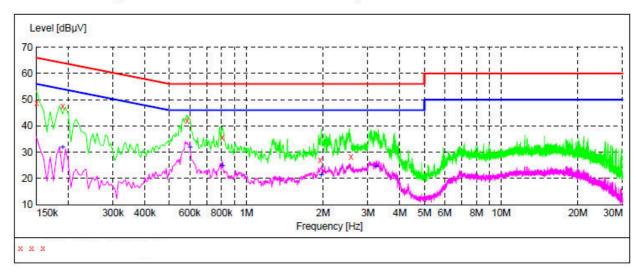
Operator: Cheng

Test Specification: AC 120V/60Hz

Comment: Live Line

Start of Test: Tem:25℃ Hum:50%

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	48.70	13.4	66	17.3	QP	L1	GND
0.190000	47.60	11.7	64	16.4	QP	L1	GND
0.585000	42.00	10.4	56	14.0	QP	L1	GND
0.805000	35.70	10.4	56	20.3	QP	L1	GND
1.945000	26.90	10.4	56	29.1	QP	L1	GND
2.575000	28.30	10.4	56	27.7	QP	L1	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	31.80	11.7	54 46	22.2	AV AV	L1 L1	GND
0.805000	24.80	10.4	46	21.2	AV	L1	GND
1.965000 3.230000	21.20	10.4	46 46	24.8	AV AV	L1 L1	GND

Report No.: HCT16CR102E-1 Page 11 of 50



Conducted Emission Test Data

EUT: 3D Printer M/N: **W008TW Operating Condition:** Tx Mode

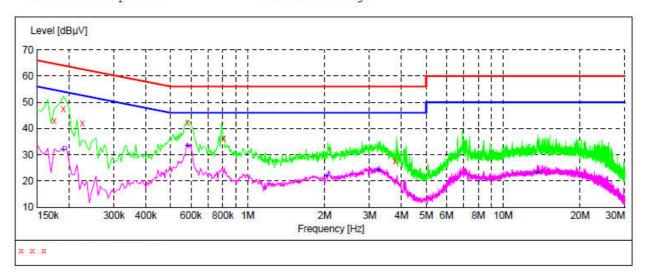
Test Site: Shielded Room

Operator: Cheng

Test Specification: AC 120V/60Hz Comment: **Neutral Line**

Start of Test: Tem:25℃ Hum:50%

SCAN TABLE: "Voltage (150K-30M) FIN"
Short Description: 150K-30M Voltage



MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175000	43.10	12.3	65	21.6	QP	N	GND
0.190000	47.60	11.7	64	16.4	QP	N	GND
0.225000	42.00	11.2	63	20.6	QP	N	GND
0.580000	42.30	10.4	56	13.7	QP	N	GND
0.805000	36.20	10.4	56	19.8	QP	N	GND
3.785000	27.60	10.4	56	28.4	QP	N	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.190000	31.80	11.7	54	22.2	AV	N	GND
0.580000	33.40	10.4	46	12.6	AV	N	GND
2.035000	21.90	10.4	46	24.1	AV	N	GND
3.235000	24.10	10.4	46	21.9	AV	N	GND
13.640000	23.10	10.7	50	26.9	AV	N	GND

Report No.: HCT16CR102E-1 Page 12 of 50



5. Output Power Measurement

5.1 Applicable standard

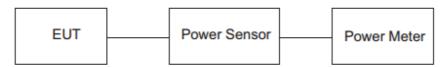
Refer to FCC §15.247 (b) and IC RSS-247 Issue1 Clause 5.4 (4).

KDB 558074 v03r03 – Section 9.1.2 PKPM1 Peak Power, Method

KDB 558074 v03r03 - Section 9.2.3.2 Method AVGPM-G

The maximum permissible conducted output power is 1Watt.

5.2 EUT Setup



5.3 Test Equipment List and Details

See section 2.5.

5.4 Test Procedure

Method PKPM1 (Peak Power Measurement)

Peak power measurement were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor, The pulse senor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was than or equal to 50MHz.

Method AVGPM-G (Average Power Measurement)

Average power measurement were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor, The pulse mater implemented triggering and fating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter, The trace was averaged over 100 traces to obtain the final measured average power.

Report No.: HCT16CR102E-1 Page 13 of 50

Shenzhen Hongcai Testing Technology Co., Ltd.



5.5 Test Result

Temperature ($^{\circ}$) : 22~23	EUT: 3D Printer
Humidity (%RH): 50~54	M/N: WT800M
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

IEEE 802.11b mode

Channel	Channel Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2412	15.23	18.25	30	PASS
Middle	2437	15.36	18.49	30	PASS
High	2462	15.89	18.62	30	PASS

IEEE 802.11g mode

Channel	Channel Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Peak Power Limit (dBm)	Pass / Fail
Low	2412	14.31	16.85	30	PASS
Middle	2437	14.46	17.33	30	PASS
High	2462	14.24	16.37	30	PASS
	HOI	NGCAL	TESTINO	J	

Report No.: HCT16CR102E-1 Page 14 of 50



6. Test of Peak Power Spectral Density

6.1 Applicable standard

Refer to FCC §15.247 (e) and IC RSS-247 Issue1 Clause 5.2 (2).

KDB 558074v03r03 - Section 10.2 Method PKPSD

The 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.

6.2 EUT Setup



6.3 Test Equipment List and Details

See section 2.5.

6.4 Test Procedure

The transmitter output was connected to the spectrum analyzer and the parameter was set as below:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Report No.: HCT16CR102E-1 Page 15 of 50



6.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Printer
Humidity (%RH): 50~54	M/N: WT800M
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

IEEE 802.11b mode

Channel	Channel Frequency (MHz)	RF Power Level in 100KHz RBW (dBm)	Correct Factor 100KHz to 3KHz (dB)	Final RF Power Level in 3KHz RBW (dBm)	Maximum Limit (dBm)	Pass / Fail
Low	2412	6.91	-15.22	-8.31	8	PASS
Middle	2437	4.85	-15.22	-10.37	8	PASS
High	2462	5.54	-15.22	-9.68	8	PASS

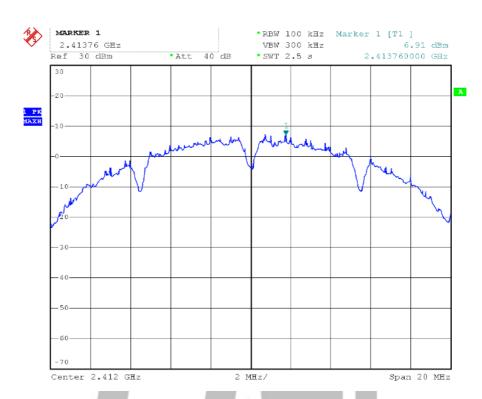
IEEE 802.11 gmode

Channel	Channel Frequency (MHz)	RF Power Level in 100KHz RBW (dBm)	Correct Factor 100KHz to 3KHz (dB)	Final RF Power Level in 3KHz RBW (dBm)	Maximum Limit (dBm)	Pass / Fail
Low	2412	0.14	-15.22	-15.08	8	PASS
Middle	2437	2.28	-15.22	-12.94	8	PASS
High	2462	H (147) C (↑ 15.22 □ €	-13.75	8	PASS

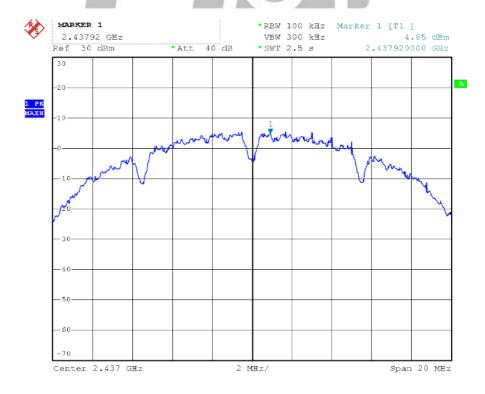
Report No.: HCT16CR102E-1 Page 16 of 50



POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH Low)



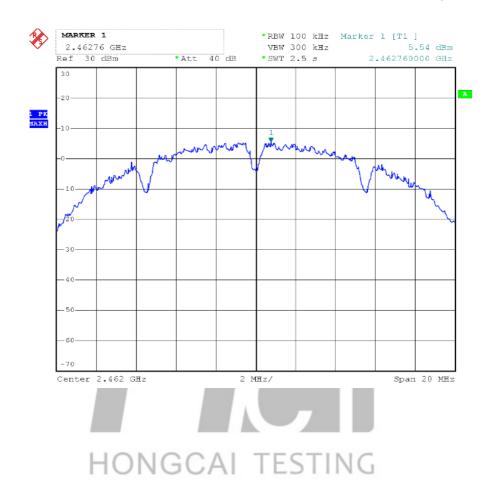
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH Mid)



Report No.: HCT16CR102E-1 Page 17 of 50



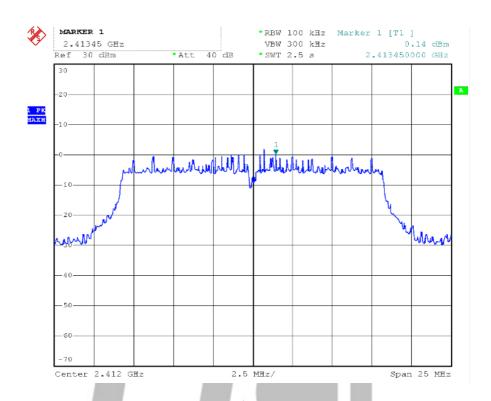
POWER SPECTRAL DENSITY (IEEE 802.11b MODE CH High)



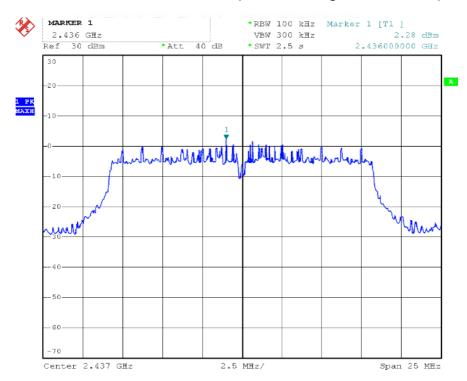
Report No.: HCT16CR102E-1 Page 18 of 50



POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH Low)



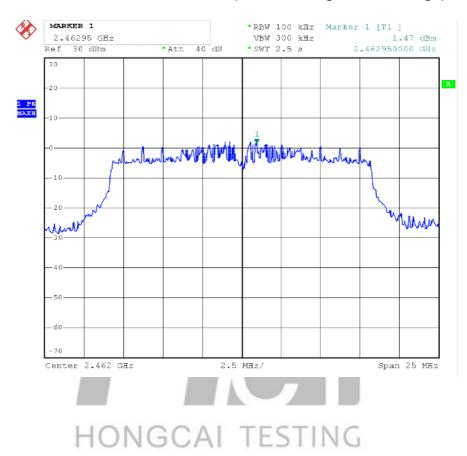
POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH Mid)



Report No.: HCT16CR102E-1 Page 19 of 50



POWER SPECTRAL DENSITY (IEEE 802.11g MODE CH High)



Report No.: HCT16CR102E-1 Page 20 of 50



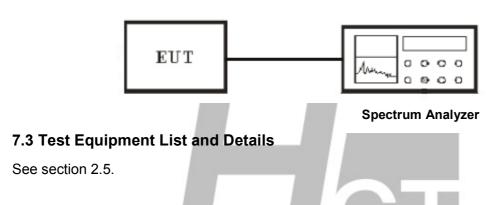
7. Test of 6dB Bandwidth

7.1 Applicable standard

Refer to FCC §15.247 (a) (2) and IC RSS-247 Issue1 Clause 5.2 (1), IC RSS-GEN Clause 6.6 KDB558074 v03r03 – Section 8.2 Option 2

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

7.2 EUT Setup



7.4 Test Procedure

The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB. The transmitter output was connected to a spectrum analyzer and the parameter was set as below:

- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Report No.: HCT16CR102E-1 Page 21 of 50



7.5 Test Result

Temperature (°C) : 22~23	EUT: 3D Printer
Humidity (%RH): 50~54	M/N: WT800M
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

IEEE 802.11b mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	9.12	500	PASS
Middle	2437	8.16	500	PASS
High	2462	8.24	500	PASS

IEEE 802.11g mode

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (kHz)	Pass / Fail
Low	2412	15.92	500	PASS
Middle	2437	15.527	500	PASS
High	2462	16.40	500	PASS

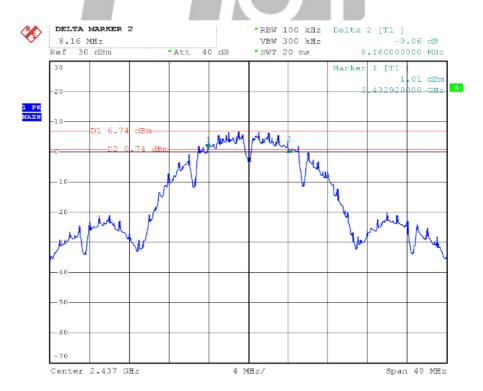
Report No.: HCT16CR102E-1 Page 22 of 50



6dB BANDWIDTH (IEEE 802.11b MODE CH Low)



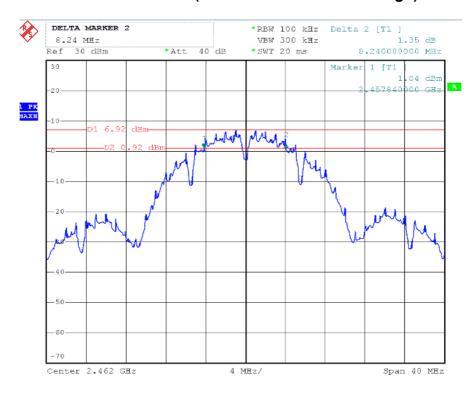
6dB BANDWIDTH (IEEE 802.11b MODE CH Mid)



Report No.: HCT16CR102E-1 Page 23 of 50



6dB BANDWIDTH (IEEE 802.11b MODE CH High)

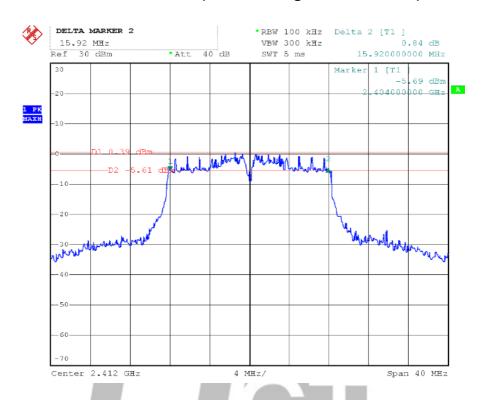




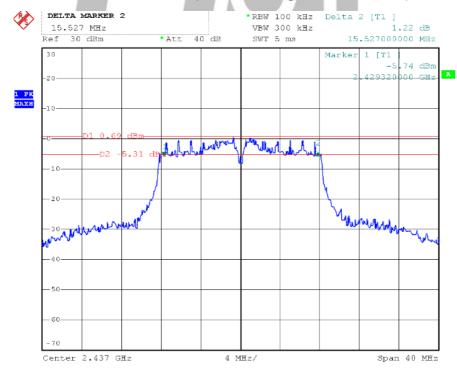
Report No.: HCT16CR102E-1 Page 24 of 50



6dB BANDWIDTH (IEEE 802.11g MODE CH Low)



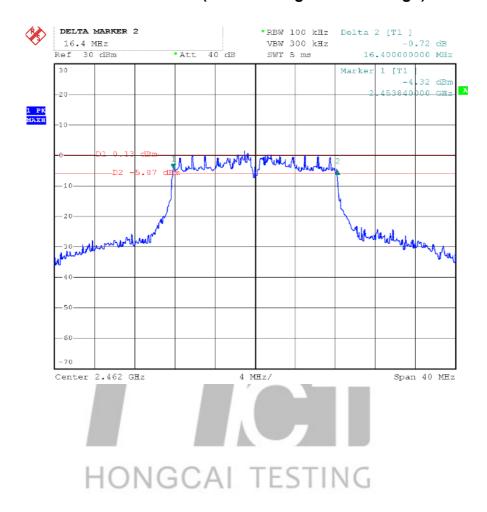
6dB BANDWIDTH (IEEE 802.11g MODE CH Mid)



Report No.: HCT16CR102E-1 Page 25 of 50



6dB BANDWIDTH (IEEE 802.11g MODE CH High)



Report No.: HCT16CR102E-1 Page 26 of 50



8. Test of Conducted Spurious Emission

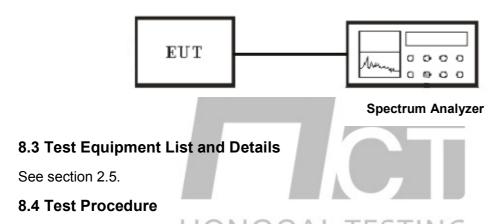
8.1 Applicable standard

Refer to FCC §15.247 (d) and IC RSS-247 Issue1 Clause 5.5.

KDB 558074 v03r03 - Section 11.3

Section 15.247(d): 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. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

8.2 EUT Setup



- Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW ≥ 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

8.5 Test Result

Temperature (°C): 22~23	EUT: 3D Printer
Humidity (%RH): 50~54	M/N: WT800M
Barometric Pressure (mbar): 950~1000	Operation Condition: TX Mode

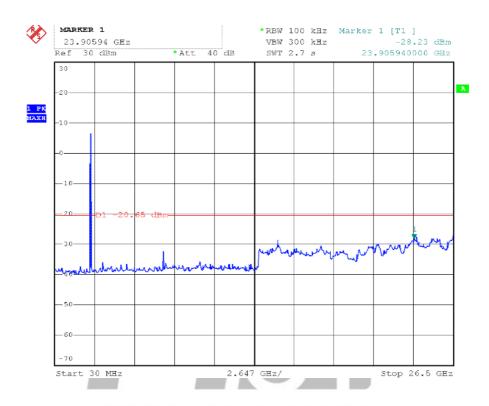
Report No.: HCT16CR102E-1 Page 27 of 50



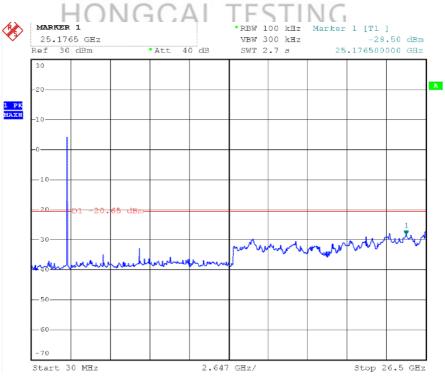
Test Result: PASS

IEEE 802.11b mode

CH Low



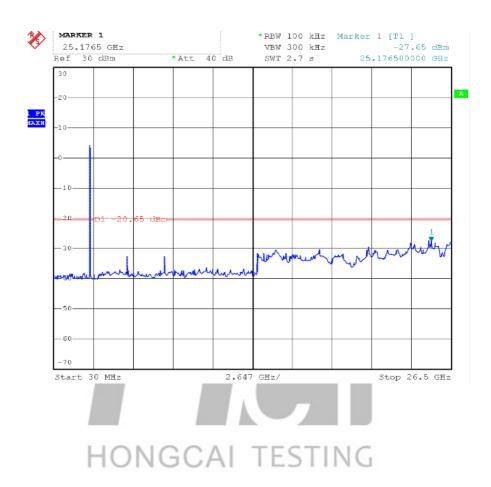
CH Mid



Report No.: HCT16CR102E-1 Page 28 of 50



CH High

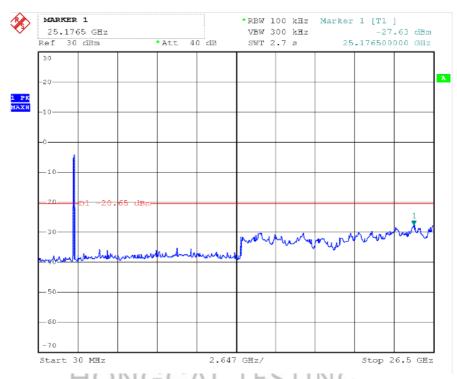


Report No.: HCT16CR102E-1 Page 29 of 50



IEEE 802.11g mode

CH Low

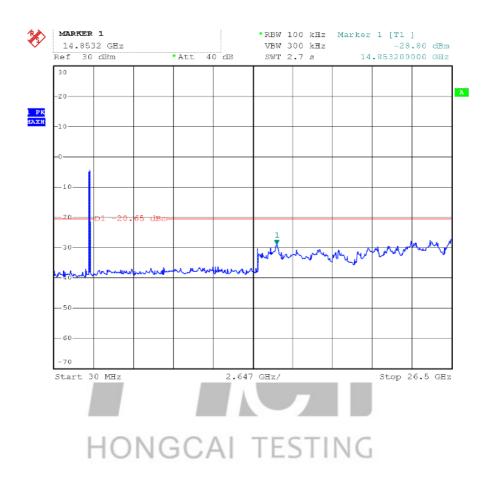


CH Mid

Report No.: HCT16CR102E-1 Page 30 of 50



CH High



Report No.: HCT16CR102E-1 Page 31 of 50



9. Test of Radiated Spurious Emission

9.1 Radiated Spurious Emission

Refer to FCC §15.205 and §15.209, IC RSS-247 Clause 5.5

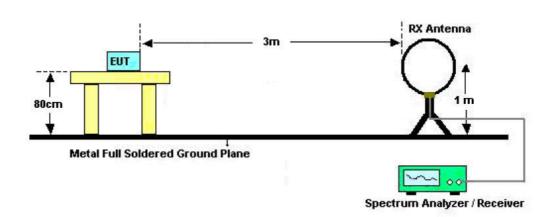
9.1.1 Limits

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

9.1.2 EUT Setup

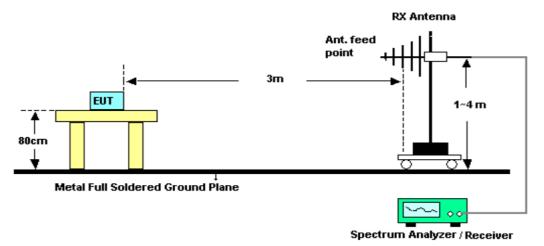
For radiated emission below 30MHz

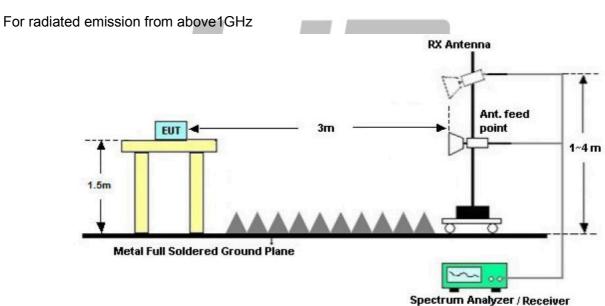


Report No.: HCT16CR102E-1 Page 32 of 50



For radiated emission from 30MHz to1GHz





9.1.3 Test Procedure

KDB 558074 v03r03 - Section 12.1, 12.2.7

Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 120kHz(for emissions from 30MHz-1GHz)
- 3. Detector = Quasi-Peak
- 4. Trace Mode = max hold.
- 5. Sweep = auto couple.
- 6. Trace was allowed to stabilize

Report No.: HCT16CR102E-1 Page 33 of 50



Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = Peak
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.
- 7. Trace was allowed to stabilize

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points=1001 (>= 2 x span/RBW)
- 6. Sweep = auto couple.
- 7. Trace (RMS) averaging was performed over at least 100 traces

NOTE:

- 1. Configure the EUT according to ANSI C63.10-2013
- 2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
- 4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.

Report No.: HCT16CR102E-1 Page 34 of 50



9.1.4 Test Result

Temperature (°C): 22~23	EUT: 3D Printer		
Humidity (%RH): 50~54	M/N: WT800M		
Barometric Pressure (mbar): 950~1000	Operation Condition:		
	Normal operation ,TX Mode		

Note

- 1. Worst-case radiated emission below 30MHz is IEEE 802.11b TX(CH Low, Middle, High) mode;
- 2. Worst-case radiated emission below 1GHz is Normal operation mode.
- 3. Worst-case radiated emission above 1GHz is IEEE 802.11b TX (CH Low, Middle, High) and IEEE 802.11g TX (CH Low, Mid, High) mode.

RADIATED EMISSION BELOW 30 MHz

IEEE 802.11 b TX (CH Low) operating Mode:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB µ V/M)	(dB)	PK/QP
5.49	22.76	8.23	1.03	29.96	67	-37.04	QP
18.84	22.47	9.07	1.19	30.35	49.5	-19.15	QP
23.36	23.79	9.25	1.08	31.96	49.5	-17.54	QP
28.33	23.89	8.43	1.66	30.66	49.5	-18.84	QP

IEEE 802.11 b TX (CH Middle) operating Mode:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
0.522	24.58	8.22	-1.01	31.79	67.0	-35.21	QP
18.43	24.74	8.17	-1.20	31.71	49.5	-17.79	QP
23.71	22.92	8.03	-1.05	29.90	49.5	-19.60	QP
24.88	24.28	7.48	-1.69	30.07	49.5	-19.43	QP

TECTINIC

Report No.: HCT16CR102E-1 Page 35 of 50



IEEE 802.11 b TX (CH High) operating Mode:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Levels	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dB μ V/M)	(dB)	PK/QP
0.510	19.10	7.89	1.02	28.01	67.0	-38.99	QP
15.40	19.50	8.75	1.21	29.46	49.5	-20.04	QP
19.30	16.20	8.73	1.05	25.98	49.5	-23.52	QP
23.20	21.20	7.33	1.68	30.21	49.5	-19.29	QP

Note:

- 1. The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos. The worst case data is recorded in the report.
- 2. Emission level (dBuV/m) =Raw Value (dBuV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. The other emission levels were very low against the limit.
- 5. Margin value = Emission level.- Limit value



Report No.: HCT16CR102E-1 Page 36 of 50



Spurious Emission Below 1GHz: IEEE 802.11g TX (CH Low)

EUT: 3D Printer M/N: **W008TW**

Operating Condition: Normal operation Test Site: 3m CHAMBER

Operator: Chen

Test Specification: AC 120V/60Hz

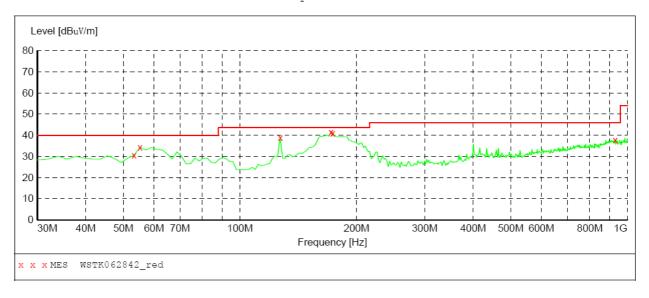
Comment: Polarization: Horizontal

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength

Detector Meas. IF Time Bandw. Start Stop Transducer

Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 9163-2015



MEASUREMENT RESULT: "WSTK062842 red"

6/28/2016 20	:28							
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBuV/m	dB	dBuV/m	dB		cm	deg	
53.280000	30.50	13.8	40.0	9.5	QP	300.0	0.00	HORIZONTAL
55.220000	34.20	15.1	40.0	5.8	QP	300.0	0.00	HORIZONTAL
127.000000	39.00	12.9	43.5	4.5	QP	300.0	0.00	HORIZONTAL
171.620000	41.50	12.5	43.5	2.0	QP	100.0	0.00	HORIZONTAL
173.560000	40.80	12.4	43.5	2.7	QP	100.0	0.00	HORIZONTAL
930.160000	37.80	25.9	46.0	8.2	QP	300.0	0.00	HORIZONTAL

Report No.: HCT16CR102E-1 Page 37 of 50



Spurious Emission Below 1GHz: IEEE 802.11g TX (CH Low)

EUT: 3D Printer M/N: **W008TW**

Operating Condition: Normal operation Test Site: 3m CHAMBER

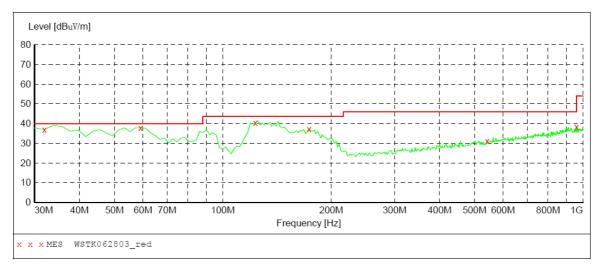
Operator: Chen

Test Specification: AC 120V/60Hz Comment: Polarization: Vertical

SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF
Time Bandw.

Transducer

Frequency Frequency 30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz 9163-2015



MEASUREMENT RESULT: "WSTK062803 red"

6/29/2016	20:45							
Frequency MH:	4		Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.94000	37.00	14.0	40.0	3.0	QP	100.0	0.00	VERTICAL
59.100000	37.80	15.7	40.0	2.2	QP	100.0	0.00	VERTICAL
123.120000	40.30	13.1	43.5	3.2	QP	100.0	0.00	VERTICAL
173.560000	37.20	12.4	43.5	6.3	QP	100.0	0.00	VERTICAL
542.160000	31.10	19.8	46.0	14.9	QP	100.0	0.00	VERTICAL
959.260000	38.30	25.3	46.0	7.7	OP	100.0	0.00	VERTICAL

Report No.: HCT16CR102E-1 Page 38 of 50



RADIATED EMISSION ABOVE 1 GHz

IEEE 802.11b TX (CH Low)

			Channe	l Low (2412	2MHz)			
Maximum Frequency		Pol	arity and Le	vel		Limit	Margin	
(MHz)	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	Mark (P/Q/A)
			46.27	-7.97	38.30	74	-35.70	P
1385.21	Н	1	33.36	-7.97	25.39	54	-28.61	Α
			46.36	-7.97	38.39	74	-35.61	Р
1368.33	V	1	32.74	-7.97	24.77	54	-29.23	Α
			86.24	-6.47	79.77			Р
2402	Н	1	79.54	-6.47	73.07			Α
			84.24	-6.47	77.77			Р
2402	V	1	78.25	-6.47	71.78			Α
			41.30	0.52	41.82	74	-32.18	Р
4804	Н	1	30.27	0.52	30.79	54	-23.21	Α
			42.71	0.52	43.23	74	-30.77	Р
4804	V	1	30.22	0.52	30.74	54	-23.26	Α
			40.15	7.41	47.56	74	-26.44	Р
7206	Н	1	30.63	7.41	38.04	54	-15.96	Α
			40.15	7.41	47.56	74	-26.44	Р
7206	V	HO	30.46	7.41	37.87	G 54	-16.13	Α
11145.34								
16327.65								
25376.32								

Remark: 1.Transd=Antenna Factor + Cable Loss - Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

Report No.: HCT16CR102E-1 Page 39 of 50



IEEE 802.11b TX (CH Middle)

	Channel Middle (2437MHz)									
Maximum Frequency		Pol	arity and Le	vel		Limit	Margin			
(MHz)	Polarity	Height (m)	Reading dB _µ V	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	Mark (P/Q/A)		
			45.43	-8.23	37.20	74	-36.80	Р		
1311.67	Н	1	34.04	-8.23	25.81	54	-28.19	Α		
			46.01	-8.23	37.78	74	-36.22	Р		
1311.67	V	1	34.74	-8.23	26.51	54	-27.49	Α		
			86.21	-6.37	79.84			Р		
2440	Н	1	78.12	-6.37	71.75			Α		
		_	85.23	-6.37	78.86			Р		
2440	V	1	77.27	-6.37	70.9			Α		
			40.77	0.75	41.52	74	-32.48	Р		
4880	Н	1	30.64	0.75	31.39	54	-22.61	Α		
			42.25	0.75	43.00	74	-31.00	Р		
4880	V	1	31.64	0.75	32.39	54	-21.61	Α		
			39.41	7.48	46.89	74	-27.11	Р		
7320	Н	1	30.84	7.48	38.32	54	-15.68	Α		
			40.08	7.48	47.56	74	-26.44	Р		
7320	V	1101	30.73	7.48	38.21	54	-15.79	Α		
		HUI	VGC,	4111	:2111/	Ú				
11238.52										
16327.71										
25376.58										

Remark: 1.Transd=Antenna Factor + Cable Loss - Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

Report No.: HCT16CR102E-1 Page 40 of 50



IEEE 802.11b TX (CH High)

	Channel High (2462MHz)									
Maximum Frequency (MHz)		Pol	arity and Le	Result	Limit	Margin (dBµV/m)				
(141112)	Polarity	Height (m)	dB _µ V	Transd	dBµV/m	(αΒμν/ιιι)	(αΒμν/ιιι)	Mark (P/Q/A)		
			45.77	-8.23	37.54	74	-36.46	Р		
1321.44	Н	1	33.67	-8.23	25.44	54	-28.56	Α		
			46.27	-8.23	38.04	74	-35.96	Р		
1321.44	V	1	33.78	-8.23	25.55	54	-28.45	Α		
			85.74	-6.28	79.46			Р		
2480	Н	1	76.74	-6.28	70.46			Α		
			84.27	-6.28	77.99			Р		
2480	V	1	72.48	-6.28	66.20			Α		
			41.07	0.97	42.04	74	-31.96	Р		
4960	Н	1	30.74	0.97	31.71	54	-22.29	Α		
			44.59	0.97	45.56	74	-28.44	Р		
4960	V	1	31.73	0.97	32.70	54	-21.30	Α		
			40.48	7.56	48.04	74	-25.96	Р		
7440	Н	1	30.24	7.56	37.80	54	-16.20	Α		
		0.000	39.84	7.56	47.40	74	-26.60	Р		
7440	V	HO	29.75	7.56	37.31	G 54	-16.69	Α		
11243.58										
16327.45										
25376.26										

Remark: 1.Transd=Antenna Factor + Cable Loss - Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

Report No.: HCT16CR102E-1 Page 41 of 50



IEEE 802.11g TX (CH Low)

	Channel Low (2412MHz)									
Maximum Frequency		Pol	arity and Le	vel		Limit	Margin			
(MHz)	Polarity	Height (m)	Reading dB _µ V	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	Mark (P/Q/A)		
			51.04	-7.97	43.07	74	-30.93	Р		
1382	Н	1	38.13	-7.97	30.16	54	-23.84	А		
			51.13	-7.97	43.16	74	-30.84	Р		
1364	V	1	37.51	-7.97	29.54	54	-24.46	Α		
			111.01	-6.47	104.54			Р		
2412	Н	1	104.31	-6.47	97.84			Α		
			115.01	-6.47	108.54			Р		
2412	V	1	105.02	-6.47	98.55			Α		
			46.06	0.52	46.58	74	-27.42	Р		
4824	Н	1	35.04	0.52	35.56	54	-18.44	Α		
			47.48	0.52	48	74	-26	Р		
4824	V	1	34.99	0.52	35.51	54	-18.49	Α		
			44.92	7.41	52.33	74	-21.67	Р		
7236	Н	1	35.4	7.41	42.81	54	-11.19	Α		
			44.92	7.41	52.33	74	-21.67	Р		
7236	V	1101	35.23	7.41	42.64	54	-11.36	Α		
		HUI	VGC,	4111	:2TII/	J				
11145.34	Н	1								
16327.65										
25376.32										

Remark: 1.Transd=Antenna Factor + Cable Loss - Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

Report No.: HCT16CR102E-1 Page 42 of 50



IEEE 802.11gTX (CH Middle)

	Channel Middle (2437MHz)									
Maximum Frequency		Pol	arity and Le	vel		Limit	Margin			
(MHz)	Polarity	Height (m)	Reading dBµV	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	Mark (P/Q/A)		
		. ,	50.2	-8.23	41.97	74	-32.03	Р		
1310.26	Н	1	38.81	-8.23	30.58	54	-23.42	Α		
			50.78	-8.23	42.55	74	-31.45	Р		
1310.88	V	1	39.51	-8.23	31.28	54	-22.72	Α		
			110.96	-6.37	104.59			Р		
2437	Н	1	99.89	-6.37	93.52			Α		
			_ 115	-6.37	108.63	-		Р		
2437	V	1	104.04	-6.37	97.67			А		
			45.54	0.75	46.29	74	-27.71	Р		
4874	Н	1	35.41	0.75	36.16	54	-17.84	Α		
			47.02	0.75	47.77	74	-26.23	Р		
4874	V	1	36.41	0.75	37.16	54	-16.84	Α		
			44.18	7.48	51.66	74	-22.34	Р		
7311	Н	1	35.61	7.48	43.09	54	-10.91	Α		
			44.85	7.48	52.33	74	-21.67	Р		
7311	V	1101	35.5	7.48	42.98	54	-11.02	Α		
		HUI	VGC,	4111	:2111/	Ú				
11238.52	Н	1								
16327.71										
25376.58										

Remark: 1.Transd=Antenna Factor + Cable Loss - Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

Report No.: HCT16CR102E-1 Page 43 of 50



IEEE 802.11gTX (CH High)

			Channe	l High (2462	2MHz)			
Maximum Frequency		Pol	arity and Le	vel	Decult	Limit	Margin	
(MHz)	Polarity	Height (m)	Reading dB _µ V	Transd	Result dBµV/m	(dBµV/m)	(dBµV/m)	Mark (P/Q/A)
			50.54	-8.23	42.31	74	-31.69	Р
1318.66	Н	1	38.44	-8.23	30.21	54	-23.79	Α
			51.04	-8.23	42.81	74	-31.19	Р
1318.66	V	1	38.55	-8.23	30.32	54	-23.68	Α
			113.51	-6.28	107.23			Р
2462	Н	1	100.51	-6.28	94.23			Α
			115.04	-6.28	108.76			Р
2462	V	1	104.25	-6.28	97.97			Α
			45.84	0.97	46.81	74	-27.19	Р
4924	Н	1	35.51	0.97	36.48	54	-17.52	Α
			49.36	0.97	50.33	74	-23.67	Р
4924	V	1	36.5	0.97	37.47	54	-16.53	Α
			45.25	7.56	52.81	74	-21.19	Р
7386	Н	1	35.01	7.56	42.57	54	-11.43	Α
			44.61	7.56	52.17	74	-21.83	Р
7386	V	HO	34.52	7.56	42.08	54	-11.92	Α
11243.58	Н	1						
16327.45								
25376.26								

Remark: 1.Transd=Antenna Factor + Cable Loss - Pre-amplifier
Margin = Level-Limit

Mark: P means Peak Value, Q means Quasi Peak Value, A means Average Value

- 2. Data of measurement within this frequency range shown " -" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=3MHz, A(Average): RBW=1MHz, VBW=3MHz.
- 4. The test limit distance is 3m limit

Report No.: HCT16CR102E-1 Page 44 of 50



10. Test of Band Edges Emission

10.1 Applicable standard

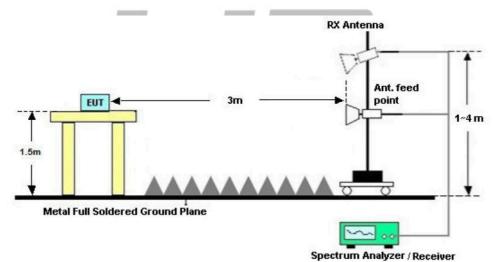
Refer to FCC §15.247 (d), IC RSS-247 Issue1 Clause 5.5

KDB558074 v03r03 - Section 11.3

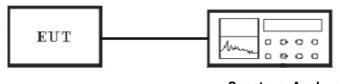
Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions that fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

10.2 EUT Setup

Radiated Measurement Setup



Conducted Measurement Setup



Spectrum Analyzer

10.3 Test Equipment List and Details

See section 2.5.

10.4 Test Procedure

Conducted Measurement

KDB558074 v03r03 - Section 11.3

1.Set the center frequency and span to encompass frequency range to be measured.

Report No.: HCT16CR102E-1 Page 45 of 50



- 2.Set the RBW = 100 kHz.
- 3.Set the VBW \geq 3 x RBW.
- 4.Detector = peak.
- 5.Sweep time = auto couple.
- 6.Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the peak marker function to determine the maximum amplitude level.

Radiated Measurement

KDB 558074 v03r03 - Section 12.1, 12.2.7

Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = Peak
- 5. Trace Mode = max hold.
- 6. Sweep = auto couple.
- 7. Trace was allowed to stabilize

Average Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Set RBW = 1MHz
- 3. Set VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Sweep = auto couple.
- 6. Trace (RMS) averaging was performed over at least 100 traces

NOTE:

- 1. Configure the EUT according to ANSI C63.10-2013
- 2. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of both horizontal and vertical polarization.
- 4. For band edge emission, the antenna tower was scan (from 1 M to 4 M) and then the turn table was rotated (from 0 degree to 360 degrees) to find the maximum reading.

Report No.: HCT16CR102E-1 Page 46 of 50



10.5 Test Result

Temperature (°C): 22~23	EUT: 3D Printer
Humidity (%RH): 50~54	M/N: WT800M
Barometric Pressure (mbar): 950~1000	Operation Condition: Tx Mode

PASS

Radiated Test Result IEEE 802.11b mode

Channel	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	2390	46.72	74	-27.28	Peak
LOW	2390	38.53	54	-15.47	Average
	2483.5	43.76	74	-30.24	Peak
HIGH	2483.5	35.33	54	-18.67	Average

IEEE 802.11g mode

Channel	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector	
	2390	49.70	74	-24.30	Peak	
LOW	2390	37.55	54	-16.45	Average	
	2483.5	49.56	74	-24.44	Peak	
HIGH	2483.5	38.34	54	-15.76	Average	

Note: 1. Emission Level = Emission Read Value + Correction Factor

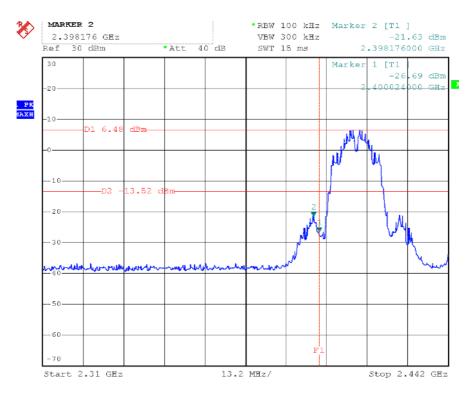
- 2. Correction Factor) = Antenna Factor + Cable Loss- amplifier gain
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value

Report No.: HCT16CR102E-1 Page 47 of 50

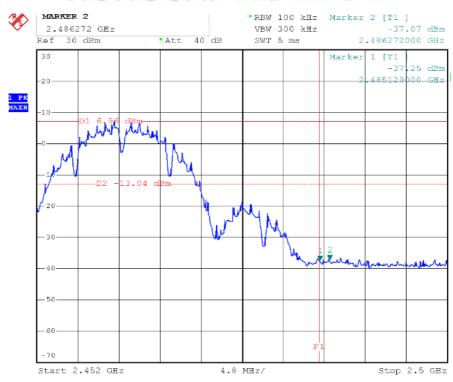


Test of Conducted band edges

CH Low (802.11b MODE)



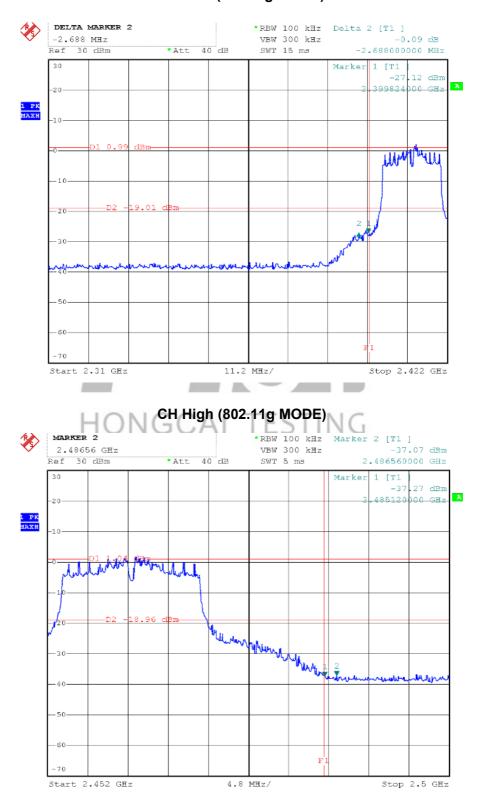
CH High (802.11b MODE)



Report No.: HCT16CR102E-1 Page 48 of 50



CH Low (802.11g MODE)



Report No.: HCT16CR102E-1 Page 49 of 50



11. ANTENNA REQUIREMENT

11.1 standard Applicable

Section 15.203 & IC RSS-GEN Clause 8.3

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 shall be considered sufficient to comply with the provisions of this Section. 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.

Section 15.247(b)/(c)

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected Construction

There are no provisions for connections to an external antenna. The antenna is designed with permanent attachment and no consideration of replacement. The antenna used in this product is complied with standard. The maximum Gain of the antenna lower than 6.0dBi and have the definite antenna Specification.

HONGCAI TESTING

···End of Report···

Report No.: HCT16CR102E-1 Page 50 of 50