

Report No.: KSCR220100003502 Page: 1 of 44

TEST REPORT

Application No.:	KSCR2201000035AT
FCC ID:	2ADTD-DS-D5B86
IC:	20199-DSD5B86
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant:	No.555 Qianmo Road,Binjiang District Hangzhou 310052,China
Manufacturer:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer:	No.555 Qianmo Road,Binjiang District Hangzhou 310052,China
Factory:	1.Hangzhou Hikvision Technology Co., Ltd.
	2.Hangzhou Hikvision Electronics Co., Ltd.
	3.Hangzhou Hikvision Digital Technology Co., Ltd.
	4.Chongqing Hikvision technology Co.,LTD
Address of Factory:	1.No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China;
	2.No.299,Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou,Zhejiang,310052,China
	3.No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
	4.NO.118.Haikang Road,Area C,Jianqiao Industrial Park,Dadukou District,Chongqing,401325,China.
Equipment Under Test (EU	T):
EUT Name:	Interactive Tablets
Model No.:	Refer to Page 2~3¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark:	HIKVISION
Standard(s) :	47 CFR Part 15, Subpart C 15.247
	RSS-247 Issue 2, February 2017
	RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2022-01-05
Date of Test:	2022-02-23 to 2022-03-08
Date of Issue:	2022-03-09
Test Result:	Pass*

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

Foria fri

Eric Lin Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN_Doccheck@cas.com No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn f(86-512)57370818 sgs.china@sgs.com

中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888



Report No.: KSCR220100003502 Page: 2 of 44

Model No.:

DS-D5B86RB/A; DS-D5B86RB/B; DS-D5B86RB/C; DS-D5B86RD/A; DS-D5B86RD/B; DS-D5B86RD/C; DS-D5B86RO/A; DS-D5B86RO/B; DS-D5B86RO/C; DS-D5B86RG/A; DS-D5B86RG/B; DS-D5B86RG/C; DS-D5B86RM/A; DS-D5B86RM/B; DS-D5B86RM/C; DS-D5B86JRX; DS-D5B86JRY; DS-D5B86JRZ; DS-D5B86NYX; DS-D5B86NYY; DS-D5B86NYZ; DS-D5B86ZFX; DS-D5B86ZFY; DS-D5B86ZFZ; DS-D5B86GAX; DS-D5B86GAY; DS-D5B86GAZ; DS-D5B86DCX; DS-D5B86DCY; DS-D5B86DCZ; DS-D5B86RB/ZC;DS-D5B86RD/ZC;DS-D5B86XX/ZC;DS-D5B86RD/AO; DS-D5B86RD/AP; DS-D5B86RB/AO; DS-D5B86RB/AP; DS-D5B86RD/BO; DS-D5B86RD/BP; DS-D5B86RB/BO; DS-D5B86RB/BP; DS-D5B86MD/AO; DS-D5B86MD/AP; DS-D5B86MB/AO; DS-D5B86MB/AP; DS-D5B86MD/BO; DS-D5B86MD/BP; DS-D5B86MB/BO; DS-D5B86MB/BP; DS-D5B86CD/AO; DS-D5B86CD/AP; DS-D5B86CB/AO; DS-D5B86CB/AP; DS-D5B86CD/BO; DS-D5B86CD/BP; DS-D5B86CB/BO; DS-D5B86CB/BP; DS-D5B86FD/AO; DS-D5B86FD/AP; DS-D5B86FB/AO; DS-D5B86FB/AP; DS-D5B86FD/A; DS-D5B86FB/A; DS-D5B86FD/BO; DS-D5B86FD/BP; DS-D5B86FB/BO: DS-D5B86FB/BP: DS-D5B86FD/B: DS-D5B86FB/B: DS-D5C86RB/A: DS-D5C86RB/B: DS-D5C86RB/C; DS-D5C86RD/A; DS-D5C86RD/B; DS-D5C86RD/C; DS-D5C86RO/A; DS-D5C86RO/B; DS-D5C86RO/C; DS-D5C86RG/A; DS-D5C86RG/B; DS-D5C86RG/C; DS-D5C86RM/A; DS-D5C86RM/B; DS-D5C86RM/C; DS-D5C86JRX; DS-D5C86JRY; DS-D5C86JRZ; DS-D5C86NYX; DS-D5C86NYY; DS-D5C86NYZ; DS-D5C86ZFX; DS-D5C86ZFY; DS-D5C86ZFZ; DS-D5C86GAX; DS-D5C86GAY; DS-D5C86GAZ; DS-D5C86DCX; DS-D5C86DCY; DS-D5C86DCZ; DS-D5C86RB/ZC:DS-D5C86RD/ZC:DS-D5C86XX/ZC:DS-D5C86RD/AO; DS-D5C86RD/AP; DS-D5C86RB/AO; DS-D5C86RB/AP; DS-D5C86RD/BO; DS-D5C86RD/BP; DS-D5C86RB/BO; DS-D5C86RB/BP; DS-D5C86MD/AO; DS-D5C86MD/AP; DS-D5C86MB/AO; DS-D5C86MB/AP; DS-D5C86MD/BO; DS-D5C86MD/BP; DS-D5C86MB/BO; DS-D5C86MB/BP; DS-D5C86CD/AO; DS-D5C86CD/AP; DS-D5C86CB/AO; DS-D5C86CB/AP; DS-D5C86CD/BO; DS-D5C86CD/BP; DS-D5C86CB/BO; DS-D5C86CB/BP; DS-D5C86FD/AO; DS-D5C86FD/AP; DS-D5C86FB/AO; DS-D5C86FB/AP; DS-D5C86FD/A; DS-D5C86FB/A; DS-D5C86FD/BO; DS-D5C86FD/BP; DS-D5C86FB/BO; DS-D5C86FB/BP; DS-D5C86FD/B; DS-D5C86FB/B; DS-D5D86RB/A; DS-D5D86RB/B; DS-D5D86RB/C: DS-D5D86RD/A; DS-D5D86RD/B; DS-D5D86RD/C; DS-D5D86RO/A; DS-D5D86RO/B; DS-D5D86RO/C; DS-D5D86RG/A; DS-D5D86RG/B; DS-D5D86RG/C; DS-D5D86RM/A; DS-D5D86RM/B; DS-D5D86RM/C: DS-D5D86JRX: DS-D5D86JRY: DS-D5D86JRZ; DS-D5D86NYX; DS-D5D86NYY; DS-D5D86NYZ; DS-D5D86ZFX; DS-D5D86ZFY; DS-D5D86ZFZ; DS-D5D86GAX; DS-D5D86GAY; DS-D5D86GAZ; DS-D5D86DCX; DS-D5D86DCY; DS-D5D86DCZ; DS-D5D86RB/ZC;DS-D5D86RD/ZC;DS-D5D86XX/ZC;DS-D5D86RD/AO; DS-D5D86RD/AP; DS-D5D86RB/AO; DS-D5D86RB/AP; DS-D5D86RD/BO; DS-D5D86RD/BP; DS-D5D86RB/BO; DS-D5D86RB/BP; DS-D5D86MD/AO; DS-D5D86MD/AP; DS-D5D86MB/AO; DS-D5D86MB/AP; DS-D5D86MD/BO; DS-D5D86MD/BP; DS-D5D86MB/BO; DS-D5D86MB/BP; DS-D5D86CD/AO; DS-D5D86CD/AP; DS-D5D86CB/AO; DS-D5D86CB/AP; DS-D5D86CD/BO; DS-D5D86CD/BP; DS-D5D86CB/BO; DS-D5D86CB/BP; DS-D5D86FD/AO; DS-D5D86FD/AP; DS-D5D86FB/AO; DS-D5D86FB/AP; DS-D5D86FD/A; DS-D5D86FB/A; DS-D5D86FD/BO; DS-D5D86FD/BP; DS-D5D86FB/BO; DS-D5D86FB/BP; DS-D5D86FD/B; DS-D5D86FB/B; DS-D5F86RB/A; DS-D5F86RB/B; DS-D5F86RB/C; DS-D5F86RD/A; DS-D5F86RD/B; DS-D5F86RD/C; DS-D5F86RO/A; DS-D5F86RO/B; DS-D5F86RO/C; DS-D5F86RG/A; DS-D5F86RG/B; DS-D5F86RG/C; DS-D5F86RM/A; DS-D5F86RM/B; DS-D5F86RM/C; DS-D5F86JRX; DS-D5F86JRY; DS-D5F86JRZ; DS-D5F86NYX; DS-D5F86NYY; DS-D5F86NYZ; DS-D5F86ZFX; DS-D5F86ZFY; DS-D5F86ZFZ; DS-D5F86GAX; DS-D5F86GAY; DS-D5F86GAZ; DS-D5F86DCX; DS-D5F86DCY; DS-D5F86DCZ; DS-D5F86RB/ZC;DS-D5F86RD/ZC;DS-D5F86XX/ZC;DS-D5F86RD/AO; DS-D5F86RD/AP; DS-D5F86RB/AO; DS-D5F86RB/AP; DS-D5F86RD/BO; DS-D5F86RD/BP; DS-



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@gs.com

Test Report Form Version: Rev01



Report No.: KSCR220100003502 Page: 3 of 44

D5F86RB/BO; DS-D5F86RB/BP; DS-D5F86MD/AO; DS-D5F86MD/AP; DS-D5F86MB/AO; DS-D5F86MB/AP; DS-D5F86MD/BO; DS-D5F86MD/BP; DS-D5F86MB/BO; DS-D5F86MB/BP; DS-D5F86CD/AO; DS-D5F86CD/AP; DS-D5F86CB/AO; DS-D5F86CB/AP; DS-D5F86CD/BO; DS-D5F86CD/BP; DS-D5F86CB/BO; DS-D5F86CB/BP; DS-D5F86FD/AO; DS-D5F86FD/AP; DS-D5F86FB/AO; DS-D5F86FB/AP; DS-D5F86FD/A; DS-D5F86FB/A; DS-D5F86FD/BO; DS-D5F86FD/BP; DS-D5F86FB/BO; DS-D5F86FB/BP; DS-D5F86FD/B; DS-D5F86FB/B; DS-D5A86RB/A; DS-D5A86RB/B: DS-D5A86RB/C: DS-D5A86RD/A: DS-D5A86RD/B: DS-D5A86RD/C: DS-D5A86RO/A; DS-D5A86RO/B; DS-D5A86RO/C; DS-D5A86RG/A; DS-D5A86RG/B; DS-D5A86RG/C; DS-D5A86RM/A; DS-D5A86RM/B; DS-D5A86RM/C; DS-D5A86JRX; DS-D5A86JRY; DS-D5A86JRZ; DS-D5A86NYX; DS-D5A86NYY; DS-D5A86NYZ; DS-D5A86ZFX; DS-D5A86ZFY; DS-D5A86ZFZ; DS-D5A86GAX; DS-D5A86GAY; DS-D5A86GAZ; DS-D5A86DCX; DS-D5A86DCY; DS-D5A86DCZ; DS-D5A86RB/ZC:DS-D5A86RD/ZC:DS-D5A86XX/ZC:DS-D5A86RD/AO; DS-D5A86RD/AP; DS-D5A86RB/AO; DS-D5A86RB/AP; DS-D5A86RD/BO; DS-D5A86RD/BP; DS-D5A86RB/BO; DS-D5A86RB/BP; DS-D5A86MD/AO; DS-D5A86MD/AP; DS-D5A86MB/AO; DS-D5A86MB/AP; DS-D5A86MD/BO; DS-D5A86MD/BP; DS-D5A86MB/BO; DS-D5A86MB/BP; DS-D5A86CD/AO; DS-D5A86CD/AP; DS-D5A86CB/AO; DS-D5A86CB/AP; DS-D5A86CD/BO; DS-D5A86CD/BP; DS-D5A86CB/BO; DS-D5A86CB/BP; DS-D5A86FD/AO; DS-D5A86FD/AP; DS-D5A86FB/AO; DS-D5A86FB/AP; DS-D5A86FD/A; DS-D5A86FB/A; DS-D5A86FD/BO; DS-D5A86FD/BP; DS-D5A86FB/BO; DS-D5A86FB/BP; DS-D5A86FD/B; DS-D5A86FB/B; DS-D5X86XX/X; DS-D5X86XX/X; DS-D5XXXXX/XXX; DS-D5XXXXX/XXXX("X" stands for A-Z, 0-9 or blank)

For IC Model No.:

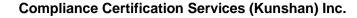
DS-D5B86RB/A; DS-D5B86RB/B



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company any unauthorized alteration, forgery or falsification of the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 f(86-512)57370818 www.sgsgroup.com.cn

t(86-512)57355888





Report No.: KSCR220100003502 Page: 4 of 44

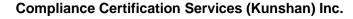
Revision Record			
Version	Description	Date	Remark
00	Original	2022-03-09	/

Authorized for issue by:		
	Damon zhou	
	Damon Zhou / Project Engineer	
	Eric fri	
	Eric Lin / Reviewer	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, or email: CN.Doccheck@seas.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn





2 Test Summary

Radio Spectrum Technical Requirement				
Item	FCC Requirement	IC Requirement	Method	Result
Antenna Requirement	enna Requirement 47 CFR Part 15, Subpart C 15.203 & 15.247(c)		N/A	Customer Declaration
N/A: Not applicable				
Radio Spectrum Matt	er Part			
Item	FCC Requirement	IC Requirement	Method	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.	2 Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.1	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.2	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass

Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-D5B86RB/A was tested since their differences were the model number, trade name, Color and appearance.



中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300



Report No.: KSCR220100003502 Page: 6 of 44

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	5
3 CONTENTS	6
4 GENERAL INFORMATION	7
4.1 DETAILS OF E.U.T.	7
4.2 POWER LEVEL SETTING USING IN TEST	
4.3 DESCRIPTION OF SUPPORT UNITS	
4.4 MEASUREMENT UNCERTAINTY	8
4.5 Test Location	9
4.6 TEST FACILITY	•
4.7 DEVIATION FROM STANDARDS	
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	9
5 EQUIPMENT LIST	10
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	12
6.1 ANTENNA REQUIREMENT	
	12
6.1 ANTENNA REQUIREMENT	12 13
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS	12 13
 6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS	12
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz) 7.2 MINIMUM 6DB BANDWIDTH 7.3 CONDUCTED PEAK OUTPUT POWER 7.4 POWER SPECTRUM DENSITY	
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz) 7.2 MINIMUM 6DB BANDWIDTH 7.3 CONDUCTED PEAK OUTPUT POWER 7.4 POWER SPECTRUM DENSITY 7.5 CONDUCTED BAND EDGES MEASUREMENT	
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHz) 7.2 MINIMUM 6DB BANDWIDTH 7.3 CONDUCTED PEAK OUTPUT POWER 7.4 POWER SPECTRUM DENSITY 7.5 CONDUCTED BAND EDGES MEASUREMENT 7.6 CONDUCTED SPURIOUS EMISSIONS	
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ) 7.2 MINIMUM 6DB BANDWIDTH 7.3 CONDUCTED PEAK OUTPUT POWER 7.4 POWER SPECTRUM DENSITY 7.5 CONDUCTED BAND EDGES MEASUREMENT 7.6 CONDUCTED SPURIOUS EMISSIONS 7.7 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz) 7.2 MINIMUM 6DB BANDWIDTH 7.3 CONDUCTED PEAK OUTPUT POWER 7.4 POWER SPECTRUM DENSITY 7.5 CONDUCTED BAND EDGES MEASUREMENT 7.6 CONDUCTED SPURIOUS EMISSIONS 7.7 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS 7.8 RADIATED SPURIOUS EMISSIONS	
6.1 ANTENNA REQUIREMENT	
6.1 ANTENNA REQUIREMENT 7 RADIO SPECTRUM MATTER TEST RESULTS 7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150KHz-30MHz) 7.2 MINIMUM 6DB BANDWIDTH 7.3 CONDUCTED PEAK OUTPUT POWER 7.4 POWER SPECTRUM DENSITY 7.5 CONDUCTED BAND EDGES MEASUREMENT 7.6 CONDUCTED SPURIOUS EMISSIONS 7.7 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS 7.8 RADIATED SPURIOUS EMISSIONS	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this destructure of the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or email: <u>CN.Doccheck@ssa.com</u>

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



 Report No.:
 KSCR220100003502

 Page:
 7 of 44

4 General Information

4.1 Details of E.U.T.

Power supply:	AC100-240V 50/60Hz
Test voltage:	AC 120V/60Hz
Antenna Gain:	5.19dBi (Provided by the manufacturer)
Antenna Type:	PCB Antenna
Bluetooth Version:	V5.0 Dual mode
Channel Spacing:	2MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz
Serial Number:	G20517594
Firmware Version:	V2.1.0 build210528

4.2 Power level setting using in test

Channel	BLE
0	Default
19	Default
39	Default

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Notebook	Lenovo	N/A	N/A





Report No.: KSCR220100003502 Page: 8 of 44

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dedicted Dever	5.2dB (Below 1GHz)
8	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Courieus Emission Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

4.4 Measurement Uncertainty

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, or email: CN.Doccheck@sss.com



Report No.: KSCR220100003502 Page: 9 of 44

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China. Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.7 Deviation from Standards None

4.8 Abnormalities from Standard Conditions

None



中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300



Report No.: KSCR220100003502 Page: 10 of 44

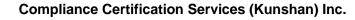
5 Equipment List

ltem	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150) kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	01/22/2022	01/21/2023
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Faratronic	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF	Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
16	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
18	Conducted Test Cable	/	RF01-RF04	/	04/15/2021	04/14/2022
19	Software	BST	TST-PASS	N/A	N/A	N/A
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
21	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF R	adiated Test			<u>.</u>		
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/20/2022	02/19/2023
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@esg.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com





Report No.: KSCR220100003502 Page: 11 of 44

15	Filter (5150 MHz \sim 5350 MHz $)$	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz \sim 915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz \sim 860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz \sim 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC	N/A	N/A	N/A



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asox and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.asox. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document the company compound of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or eramit. CN. Doccheck@basc.com



Report No.: KSCR220100003502 Page: 12 of 44

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

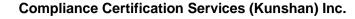
EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 5.19dBi.

Antenna location: Refer to Appendix (Internal Photos)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.





Report No.: KSCR220100003502 Page: 13 of 44

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement	47 CFR Part 15, Subpart C 15.207
Test Method:	ANSI C63.10 (2013) Section 6.2
Limit [.]	

Eroquency of omission/MUT	Conducted limit(dBµV)					
Frequency of emission(MHz)	Quasi-peak	Average				
0.15-0.5	66 to 56*	56 to 46*				
0.5-5	56	46				
5-30	60	50				
*Decreases with the logarithm of t	he frequency.					

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unatfue approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unatfue to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn



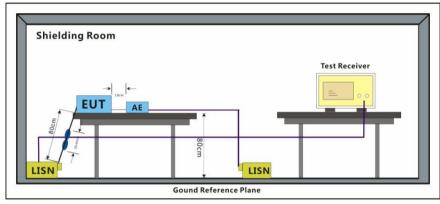
Report No.: KSCR220100003502 Page: 14 of 44

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:48 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodulation

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50 μ H + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

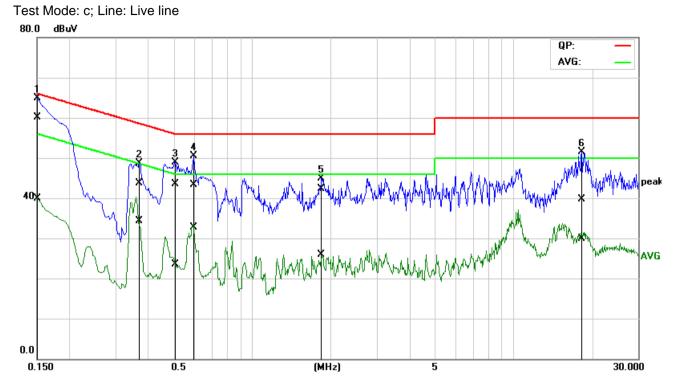


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exenerate parties to a contained there on the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the faults otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & centificate, please contact us at telephone: (86-512)57355888 f(86-512)57355888 f(86-51





Report No.: KSCR220100003502 Page: 15 of 44



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	40.58	20.36	19.50	60.08	39.86	66.00	56.00	-5.92	-16.14	Pass
2	0.3657	24.22	14.71	19.53	43.75	34.24	58.60	48.60	-14.85	-14.36	Pass
3	0.5112	23.99	3.89	19.56	43.55	23.45	56.00	46.00	-12.45	-22.55	Pass
4	0.5963	23.77	13.11	19.56	43.33	32.67	56.00	46.00	-12.67	-13.33	Pass
5	1.8505	22.74	6.27	19.64	42.38	25.91	56.00	46.00	-13.62	-20.09	Pass
6	18.2345	19.39	9.66	20.32	39.71	29.98	60.00	50.00	-20.29	-20.02	Pass



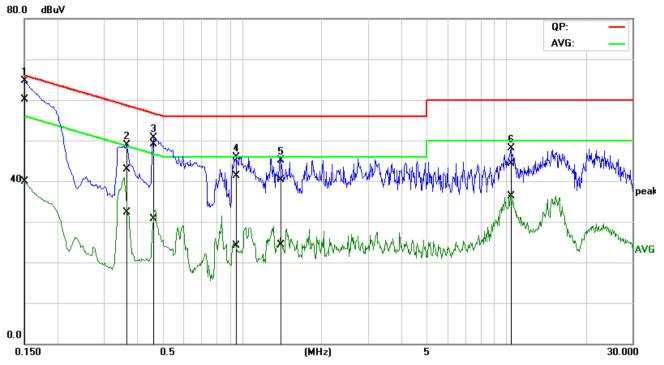
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document coment be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or email: To. Doccheck@asa.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn



Report No.: KSCR220100003502 Page: 16 of 44

Test Mode: c; Line: Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.1500	40.65	20.42	19.48	60.13	39.90	65.99	56.00	-5.86	-16.10	Pass
2	0.3683	23.40	12.75	19.52	42.92	32.27	58.54	48.54	-15.62	-16.27	Pass
3	0.4602	29.50	11.11	19.55	49.05	30.66	56.69	46.69	-7.64	-16.03	Pass
4	0.9446	21.80	4.56	19.59	41.39	24.15	56.00	46.00	-14.61	-21.85	Pass
5	1.4158	20.68	4.65	19.62	40.30	24.27	56.00	46.00	-15.70	-21.73	Pass
6	10.4444	24.28	16.16	20.05	44.33	36.21	60.00	50.00	-15.67	-13.79	Pass

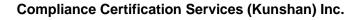


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document coment be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

Member of the SGS Group (SGS SA)

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn





Report No.: KSCR220100003502 Page: 17 of 44

7.2 Minimum 6dB Bandwidth

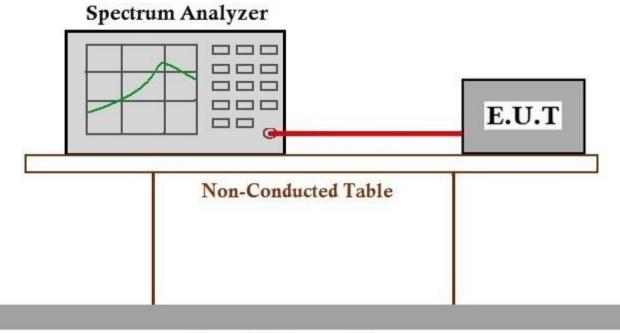
Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodulation

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220100003502-BLE-MT7668



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-eDocument.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document for Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or email: CM.Doccheck@egs.com



Report No.: KSCR220100003502 Page: 18 of 44

7.3 Conducted Peak Output Power

Test Requirement47 CFR Part 15, Subpart C 15.247(b)(3)Test Method:ANSI C63.10 (2013) Section 11.9.1

L	ir	n	ii	::	

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document coment be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn





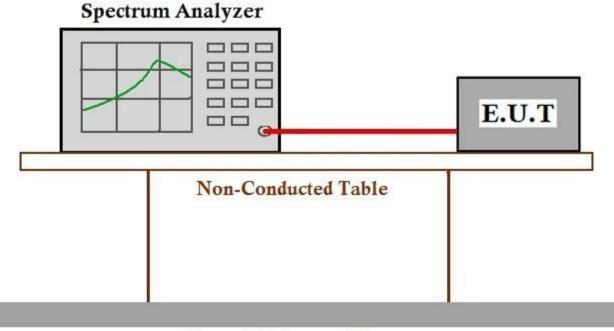
Report No.: KSCR220100003502 Page: 19 of 44

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodulation

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220100003502-BLE-MT7668

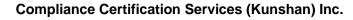


No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

f(86-512)57370818 www.sgsgroup.com.cn

t(86-512)57355888





Report No.: KSCR220100003502 Page: 20 of 44

7.4 Power Spectrum Density

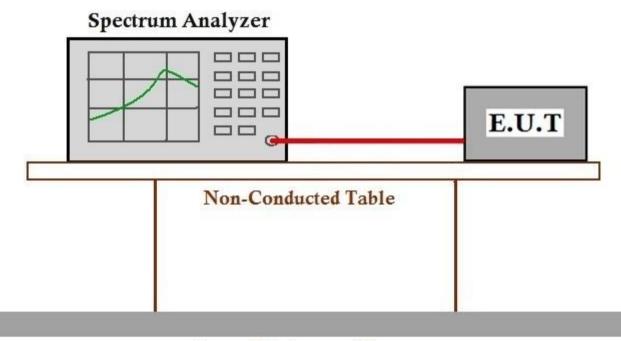
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	\leq 8dBm in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:	24	°C	Humidity:	50	% RH	Atmospheric Pressure: 1010	mbar
Test mode		X mode_K dulation	eep the EUT	in coi	ntinuously t	transmitting mode with GFSK	

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220100003502-BLE-MT7668



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a speerance of this document is unlawful and offenders may be prosecuted to the fullest extend to the content withe competities to accument is unlawful and offenders may be prosecuted to the fullest extend of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing (inspection report & certificate, please contact us at telephone; (66-755) 83071443, or email: <u>CN_Doccheck@sgs.com</u> No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 (186-512)5735688 (186-512)5737688 www.sgsgroup.com.cn mail: <u>CN_Doccheck@sgs.com</u> (186-512)5735688 (186-512)5737688 www.sgsgroup.com.cn sgs.china@sgs.com



Limit:

Report No.: KSCR220100003502 Page: 21 of 44

7.5 Conducted Band Edges Measurement

Test Requirement47 CFR Part 15, Subpart C 15.247(d)Test Method:ANSI C63.10 (2013) Section 11.13.3.2

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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asox and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.asox. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, https://www.state.astates.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



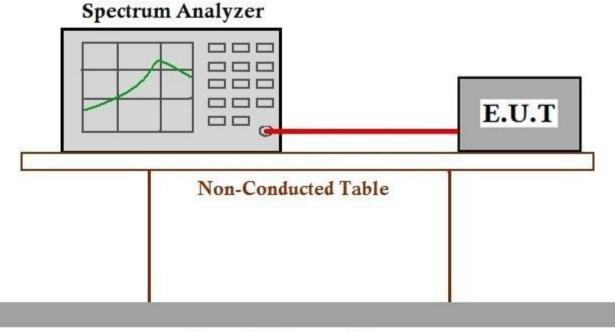
Report No.: KSCR220100003502 Page: 22 of 44

7.5.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodulation

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220100003502-BLE-MT7668



No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

f(86-512)57370818 www.sgsgroup.com.cn

t(86-512)57355888



Report No.: KSCR220100003502 Page: 23 of 44

7.6 Conducted Spurious Emissions

Test Requirement47 CFR Part 15, Subpart C 15.247(d)Test Method:ANSI C63.10 (2013) Section 11.11Limit:In any 100 kHz bandwidth outside the frequency band in which the spectrum or digitally modulated intentional radiator is operating, the radiator	
Limit: In any 100 kHz bandwidth outside the frequency band in which the sp	
frequency power that is produced by the intentional radiator is operating, the radiator of digitally modulated intentional radiator is operating, the radiator of the general power that is produced by the intentional radiator shall be a 20 dB below that in the 100 kHz bandwidth within the band that contan highest level of the desired power, based on either an RF conducted radiated measurement, provided the transmitter demonstrates complies with the peak conducted power limits. If the transmitter complies with conducted power limits based on the use of RMS averaging over a tir interval, as permitted under paragraph (b)(3) of this section, the atten required under this paragraph shall be 30 dB instead of 20 dB. Attenue below the general limits specified in §15.209(a) is not required. In addiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specifie §15.209(a) (see §15.205(c)	adio at least ains the or a iance the me juation dition,



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document coment be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn





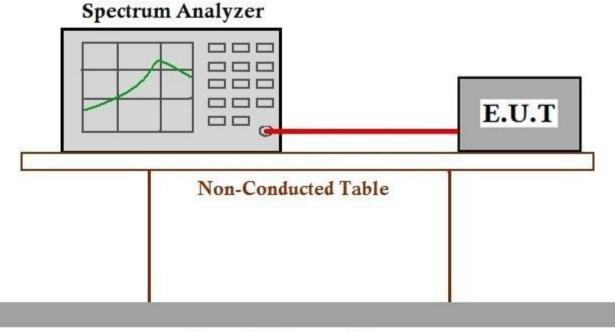
Report No.: KSCR220100003502 Page: 24 of 44

7.6.1 E.U.T. Operation

Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodulation

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220100003502-BLE-MT7668



No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

f(86-512)57370818 www.sgsgroup.com.cn

t(86-512)57355888



Report No.: KSCR220100003502 Page: 25 of 44

7.7 Radiated Emissions which fall in the restricted bands

Test Requirement Test Method: Limit:	47 CFR Part 15, Subpart C 15.205 & 15. ANSI C63.10 (2013) Section 6.10.5	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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document tance be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or email: CN.Doccheck@sas.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn



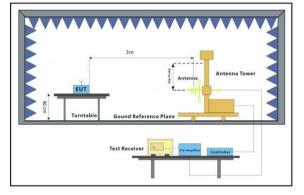
Report No.: KSCR220100003502 Page: 26 of 44

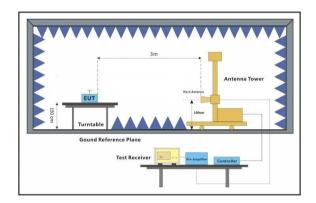
7.7.1 E.U.T. Operation

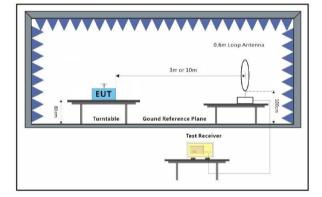
Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodemodemode

7.7.2 Test Setup Diagram









Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, transition is the provent of the test.



Report No.: KSCR220100003502 Page: 27 of 44

7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



 Report No.:
 KSCR220100003502

 Page:
 28 of 44

															Lim Lim		_	
																	3	
60																	1	
	afalla a da abada ata	nd an children de staffe d	er, utbarnak papak		lana-a-a	. A sound a stand of the	مريهم	ي المه حام	فرير مايانديه	مىلارۇسارىمرە	1 X	بالعماية.	Postika na	, 	3 ***	e water at M	,	
0.0																		
23	310.0002319	9.50 2329	9.00 233	8.50	231	8.00 2	235	7.50	236	7.00	237	6.50	238	6.00		24	105.00	MHz
F	requency (MHz)	Reading (dBuV)	factor(dB/m)		esult BuV/m)	(Lim dBuV			rgin B)				Ren	nark		
	2372.605	61.73	-14.		4	7.67		74.0	0	-26	6.33				ре	ak		
1	2390.000	59.65	-14.	01	4	5.64		74.0	0	-28	36				pe	ak		
1	2402.245	95.91	-13.	97	8	1.94		74.0	0	7	94		peak					

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document coment be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



 Report No.:
 KSCR220100003502

 Page:
 29 of 44

								Limit1: — Limit2: —
60								
	ale a grade grade	الإطلياني فحو الرسمام		endanier mannen	tra-shirehabbarradi	and the second	mar martin	duran derived
0.0								
23	10.0002319	.50 2329.	00 2338.50	2318.00 2	357.50 2 36	7.00 2376	.50 2386.00	2105.00 MH:
F	requency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark
2	2384.765	62.18	-14.03	48.15	74.00	-25.85		peak
	2390.000	60.69	-14.01	46.68	74.00	-27.32		peak

74.00

27.17

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



3

2402.150

115.14

-13.97

101.17

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-75) 83071443, tested the termine of the dome.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 peak



 Report No.:
 KSCR220100003502

 Page:
 30 of 44

																	nitl: — nit2: —	
	60-			2														
			-16		~										lange, solennin i terrer			
	0.0 21	175.0	000	2483	7.50 250	0.0	0 251	2.50	252	2525.00 25		7.50 255	0.00	2562	2.50 257	5.00	2500.00	MHz
0.	F	requ (MI	ien Hz)	су	Reading (dBuV)							Limit dBuV/m)	Margin (dB)			Rema		
	2	2480			92.21		-13.7			8.50	Τ,	74.00	4.5			pe	eak	
	2	2483	3.50	00	59.21		-13.7	71	4	5.50		74.00	-28.	50		pe	eak	
	2	2493	3.7	5 0	60.99		-13.6	67	4	7.32		74.00	-26.	68		pe	eak	
	2	2500	0.0	00	59.90		-13.6	64	4	6.26		74.00	-27.	74		pe	eak	

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document company content is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



 Report No.:
 KSCR220100003502

 Page:
 31 of 44

																		Limi Limi		
			Å																	
	60					Antonio 23		والمعادمة المعارجة والم	der Verhander	and the second					~~~~~		(asurad-of th		ging get wijdeg de geven	
	0.0 2'	175.	000	121	87.	.50 250	0.0	0 251	2.50	252	5.00 2!	537.5	i o 255	0.00	2562	50 257	5.00		2500.00	MHz
D.	F	req (N	uer IHz	icy)		Reading (dBuV)	9	Correct factor(d		Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)			I	Rem	ark	
	1		9.8		1	112.92		-13.7			9.21	7	4.00	25.				pea	ık	
	1	248	3.5	00		63.62		-13.1	71	4	9.91	7	4.00	-24.	09			pea	ık	
	1	248	5.0	00		63.93		-13.7	70	5	0.23	7	4.00	-23.	77			pea	ik	

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document company compared to the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: KSCR220100003502 Page: 32 of 44

7.8 Radiated Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method:	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Limit:	

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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, to the certificate, please contact us at telephone: (66-75) 83071443, to the terms of the sample of the



 Report No.:
 KSCR220100003502

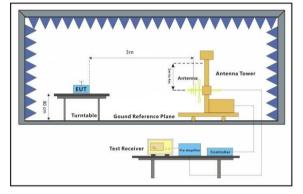
 Page:
 33 of 44

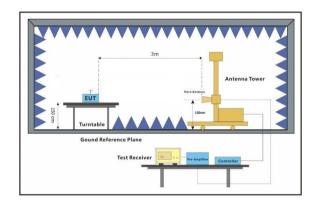
7.8.1 E.U.T. Operation

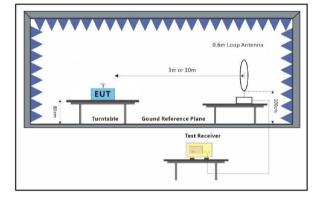
Operating Environment:

Temperature:24 °CHumidity:50 % RHAtmospheric Pressure:1010 mbarTest modec:TX mode_Keep the EUT in continuously transmitting mode with GFSK
modulationmodemodemode

7.8.2 Test Setup Diagram









Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fulleest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, transition is the provent of the test.



Report No.: KSCR220100003502 Page: 34 of 44

7.8.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions.rems-e-Document.aspx</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or pepearance of this document is unafvil and offenders may be prosecuted to the fulles extend to the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /Inspection report & certificate, pilease contact us at telephone; (66-755) 8307 1443, or email: <u>CN.Doccheck@sgs.com</u>
No.10, Weige Road, Innovation Park, Kunshan, Jiangsu, China 215300 tteleformation (86-512)5730618 www.sgsgroup.com.cn
return to the intervention of the company is a state of the source of the source of the soccurrent of the source of the source of the soccurrent of the

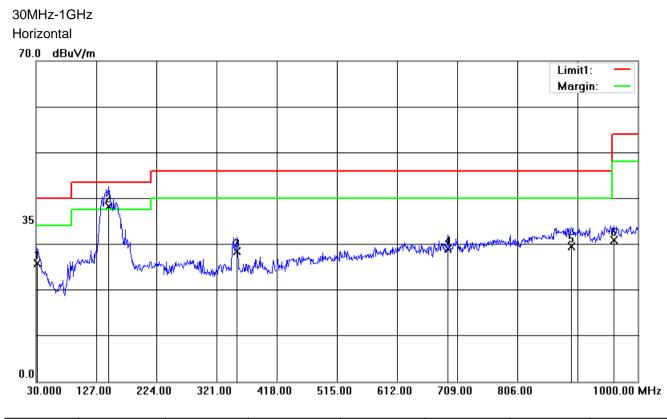
Test Report Form Version: Rev01

Member of the SGS Group (SGS SA)





Report No.: KSCR220100003502 Page: 35 of 44

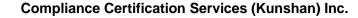


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	1.05	24.82	25.87	40.00	-14.13	QP
2	147.3700	18.15	20.05	38.20	43.50	-5.30	QP
3	353.9800	5.99	22.48	28.47	46.00	-17.53	QP
4	693.4800	1.50	27.45	28.95	46.00	-17.05	QP
5	893.3000	0.87	28.59	29.46	46.00	-16.54	QP
6	961.2000	1.57	29.28	30.85	54.00	-23.15	QP



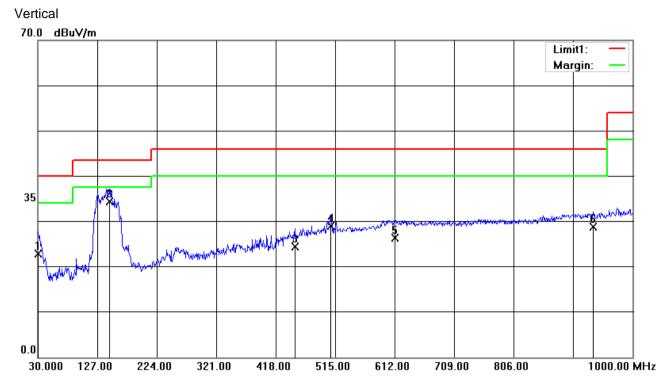
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, or email: CN.Doccheck@seas.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com





Report No.: KSCR220100003502 Page: 36 of 44



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	-3.04	25.93	22.89	40.00	-17.11	QP
2	147.3700	14.30	20.05	34.35	43.50	-9.15	QP
3	449.0400	0.20	24.30	24.50	46.00	-21.50	QP
4	507.2400	3.55	25.33	28.88	46.00	-17.12	QP
5	612.9700	-0.38	26.67	26.29	46.00	-19.71	QP
6	935.9800	-0.25	29.12	28.87	46.00	-17.13	QP



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@sss.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com

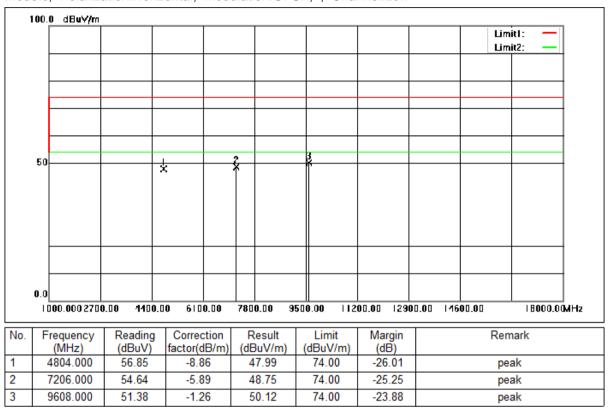


 Report No.:
 KSCR220100003502

 Page:
 37 of 44

Above 1GHz

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document company content or appearance of this tervention of the content or appearance of this tervention is the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@soa.com



 Report No.:
 KSCR220100003502

 Page:
 38 of 44

1	00.0 dBu∀/m								
								Limitl: — Limit2: —	
	50	5	k	2	<u></u>				
	0.0								
	1000.0002700).00 1100.0	10 6100.00	7800.00	9500.00 12	00.00 1290	0.00 1600.0	0 18000.00	MHz
lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)		Remark	
	4804.000	57.05	-8.86	48.19	74.00	-25.81		peak	
2	7206.000	55.12	-5.89	49.23	74.00	-24.77		peak	

74.00

-23.73

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



3

9608.000

51.53

-1.26

50.27

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be proscuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-75) 83071443, tertemon is unlawfulle.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

Member of the SGS Group (SGS SA)

peak



 Report No.:
 KSCR220100003502

 Page:
 39 of 44

1	100.	0 dBu∀/m													
														nitl: —	
								+						nit2: —	
								_							
	50			<u>.</u>		2			4 *						
				Î											
					+		+								
	0.0	 100.0002700	.00 1100		 0.00 78		 0.00 9	 9500		200.00	1290	0.00 146	00.00	 8000.00	 1443
		100.0002100			0.00	100	0.00 3	9900		200.00	12.30	0.00 110	00.00	10000.00	M112
No.	F	requency	Reading				esult		Limit	Ma	rgin		Rer	mark	
1		(MHz) 4880.000	(dBuV) 56.93	factor(-8.			3uV/m) 8.33	(0	<u>BuV/m)</u> 74.00		B) 5.67			ak	
2	-	7320.000	55.03	-0.			9.26	+	74.00	_	4.74			eak ak	
2		1320.000	55.05	-0.		4	3.20		74.00	-24	+.14		pe	eak	

74.00

-23.93

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



3

9760.000

51.52

-1.45

50.07

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document coment be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 peak



Report No.: KSCR220100003502 Page: 40 of 44

1	00.	0 dBu∀/m						-				_						-		
																	Lim Lim			
	50			_1			2			4										
				Ì	ξ		Î													
	0.0																			
	10	100.000 2700	.00 1100	0.00) 610	0.00	7800.00 95		9500)500.00		1200.00 12900		0.00	146	00.00		1800	0.00	lHz
No.	F	requency (MHz)	Reading (dBuV)	J	Correct factor(d			lesult BuV/m)	6		mit ıV/m)	Ma (d	rgin B)				Rem	nark		
1	4	4880.000	56.95		-8.6			8.35	–		.00		5.65				pe	ak		
2	Ī	7320.000	55.06		-5.7	7	4	9.29		74	.00	-24	.71				pea	ak		
3	9	9760.000	51.92		-1.4	5	5	0.47		74	.00	-23	3.53				pea	ak		

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-75) 83071443, to the sample(s) its of the company for the sample(s) its of the sample(s) are retained for 30 days only.

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn



Report No.: KSCR220100003502 Page: 41 of 44

1	100.	0 dBu∀/m										-	
											Lim		
											Lim	162:	
	50			ţ		-		×					
				Î									
				+ +									
	0.0	 100.0002700	.00 1100.0	0 610	0.00	780	0.00 9!	500.00 12	 00.00 290	0.00 146	00.00	 18000.00	 MH2
No.	F	requency	Reading	Correc	tion		esult	Limit	Margin		Ren	nark	
1		(MHz) 4960.000	(dBuV) 56.56	factor(d -8.3			8uV/m) 8.24	(dBuV/m) 74.00	(dB) -25.76		pe	ak	
2													
2		7440.000	55.00	-5.6	3	4	9.37	74.00	-24.63		pea	ак	

74.00

-23.67

Mode:c; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



3

9920.000

51.27

-0.94

50.33

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or email: CN. Doccheck@base.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 peak



Report No.: KSCR220100003502 Page: 42 of 44

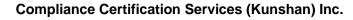
1	00.0	0 dBu∀/m																
																Lim		-
																Lim	it2: —	-
	ł			\vdash											-			-
																		-
																		-
							2			\$								-
	50				¥		2			<u>+×</u>								-
	İ																	1
																		_
	0.0	 00.0002700	.00 110	<u>о</u> п	0 610	0 0 0	780	 0.00	951]0.00	112	00.00	1290		 600.00	1	18000	 .00MHz
		100.0002100		0.0	0 010	0.00	ruu	0.00	331	10.00	116	00.00	12.30	0.00 1-	000.00	1	10000.	
No.	F	requency	Reading		Correc			Result		Limi		Ma	rgin			Ren	nark	
		(MHz)	(dBuV)		factor(d			3uV/m)	(dBuV			B)					
1		4960.000	56.41		-8.3			18.09		74.0			5.91			pe		
2		7440.000	54.85		-5.6			19.22		74.0			.78			pe		
3	9	9920.000	51.25		-0.9	4	1	50.31		74.0	0	-23	8.69			pe	ak	

Mode:c; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.asox and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.asox. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document the company compound of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-755) 83071443, or eramit. CN. Doccheck@basc.com

No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300 中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300 t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn





 Report No.:
 KSCR220100003502

 Page:
 43 of 44

7.9 99% Bandwidth

Test Requirement	RSS-Gen Section 6.7
Test Method:	ANSI C63.10 Section 6.9.3

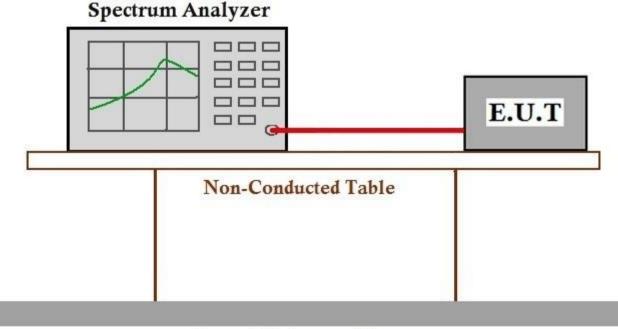
7.9.1 E.U.T. Operation

Operating Environment:

 Temperature:
 24 °C
 Humidity:
 50 % RH
 Atmospheric Pressure:
 1010 mbar

 Test mode
 c:TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation
 modulation
 modulation

7.9.2 Test Setup Diagram



Ground Reference Plane

7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix B for KSCR220100003502-BLE-MT7668



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fulleest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, or email: CN.Doccheck.



Report No.: KSCR220100003502 Page: 44 of 44

8 Test Setup Photographs

Refer to the < Test Setup photos>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is unlawful and offenders may be prosecuted to the fulleest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (66-75) 83071443, to the company: Any ended for the company: Any ended for 30 days only.