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TEST REPORT

FCC ID: 2AXYP-OSW-850H

Product: Smart Watch

Model No.: OSW-850H

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240400021A-BT

Issued Date: 20 May 2024

Issued for:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI

STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
Building A-B, Baoshi Science & Technology Park, Baoshi Road,
Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-26996192 FAX: +86-755-86376605

Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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Certificate #5768.01

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Report No.: WSCT-A2LA-R&E240400021A-BT

1. Test Certification

Product: Smart Watch

Model No.: OSW-850H

Additional Model:

oraimo

Applicant:

ORAIMO TECHNOLOGY LIMITED

Address:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

ORAIMO TECHNOLOGY LIMITED

Address:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test:

29 April 2024 to 19 May 2024

Applicable Standards:

FCC CFR Title 47 Part 15 Subpart C Section 15.247

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Way Yiar

(Wang Xiang)

Checked By:

10 Peryun

(Mo Peiyun)

Approved By:

(Liu Fuxin)

Date: 20

20 May 2004

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2. Test Result Summary

	インスマード インスマー		/ / / day
7	Requirement	CFR 47 Section	Result
	Antenna Requirement	§15.203/§15.247 (c)	PASS
	Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS
1	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
1	Carrier Frequencies Separation	§15.247 (a)(1)	PASS
	Hopping Channel Number	§15.247 (a)(1)	PASS
	Dwell Time	§15.247 (a)(1)	PASS
7	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS
1	Band Edge	§15.247(d) §2.1051, §2.1057	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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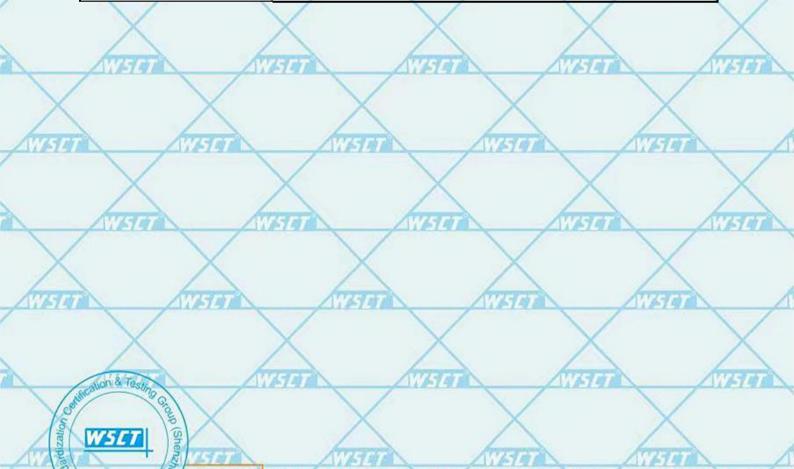


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EUT Description 3.

3.01	For Question,
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	Product Name:	Smart Watch	7-14
	Model :	OSW-850H	
	Trade Mark:	oraimo	
2.4	Operation Frequency:	2402MHz~2480MHz	/
	Channel Separation:	1MHz	X
	Number of Channel:	79 W541 W341	751
	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
Ý I	Modulation Technology:	FHSS W5111	
	Antenna Type:	FPC Antenna	X
	Antenna Gain:	-2.06dBi	16710
/	Rechargeable Li-Polymer Battery:	Li-ion Battery : 532626V Rated Voltage: 3.8V Rated Capacity: 460mAh 1.748Wh	Madada
7	Remark:	N/A. WSGT WSGT	



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	Operation Frequency each	ch	of channel for GFSK, π/4-	DQPSK, 8DPSK
--	--------------------------	----	---------------------------	--------------

								WALAN
C	hannel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
,	0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
						\wedge		
2	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	X		X		X		X	
	18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
	19	2421MHz	39	2441MHz	59	2461MHz	17-79	
			0 0 70 1		1 1 0	FOLK // DO		DOM

Remark: Channel 0, 39 &78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode.

WHAT	WEIGH	AVE THE	WISIA	WHIT	1
NVE9			AVES		
1115191	WHITE	WSI	Wester	Western	,
NVF3				$\langle \times$	1
WETER	WSI	WETAT	Wiston	WATER A	/
W.F.				$\langle \times$	
WHITE	WSG	WEIGH	WESTER	VI-TO A	
			Wis NVIS	$\langle \times$	1
Autication & Te	and C				

TEL:86-755-269

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4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting
format format	by select channel and modulations with Fully-charged battery

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

4.2. Description of Support Units

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

1	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	/	1	1	1	X /

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.











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5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

CNAS - Registration Number: L3732

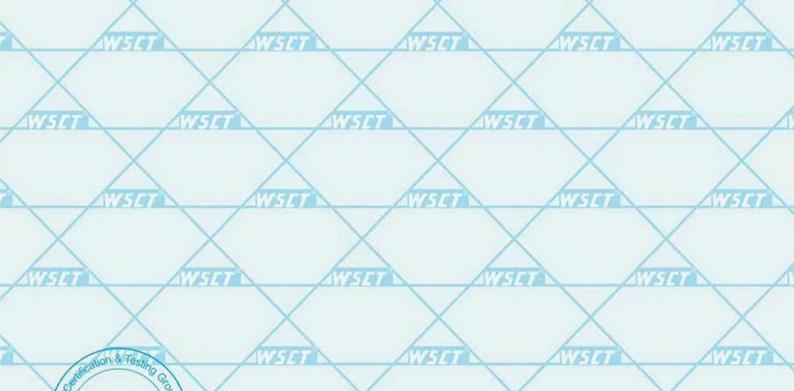
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

A2LA - Certificate Number: 5768.01

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01



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5.3. Measurement Uncertainty

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The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
7	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature W547	±0.5°C
	7 🗙	Humidity	±2.0%

	AVZTO	SVISTOR	WETTE	177797	AVET 4
NVI-10					700
	VV2-141	Wister	VIETA	WESTATA	WEIGH
NV 6-14					701
	WHI	WEIGH	Wester	WISTER	MESTAT
ATE 14					700
	X	WATER	Wister	Wister	VIETE
8	succession & Testino Go				X

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5.4. MEASUREMENT INSTRUMENTS

					www.ws	Ct-C
NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	Z
Test software		EZ-EMC	CON-03A	-	X	
Test software		MTS8310	(V274)	- /	4746	
EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	1
LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	/
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	Z
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	\
Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	/
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	7
Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
9*6*6 Anechoic	4 ·- /	IST A	THEFT	11/05/2023	11/04/2024	
Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	1
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	é
System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	t
RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	
Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	7
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
Power sensor	Anritsu	MX248XD	AUSTRA	11/05/2023	11/04/2024	
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	1











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6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

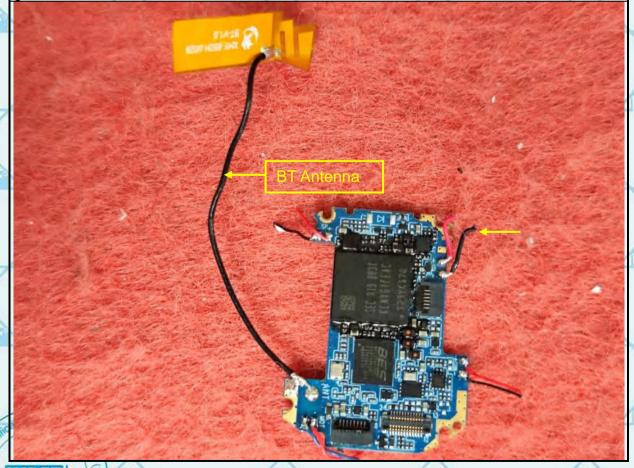
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is a FPC Antenna. it meets the standards, and the best case gain of the antenna is -2.06dBi.



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6.2. Conducted Output Power

6.2.1. Test Specification

FCC Part15 C Section 15.247 (b)(3)
ANSI C63.10:2014
Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.
Spectrum Analyzer EUT
Transmitting mode with modulation
Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
PASS











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6.2.2. Test Data

7		GFSK mo	ode	
	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
0	Lowest	2.31	20.97	PASS
	Middle	1.24	20.97	PASS
	Highest	-0.56	20.97	PASS

-	All de marie	ATTACHED ATT	77720	7774	
	Pi/4DQPSK mode				
	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
	Lowest	2.68	20.97	PASS	
	Middle	1.69	20.97	PASS	
	Highest	-0.2	20.97	PASS	

8DPSK mode				
		oue -		
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	2.89	20.97	PASS	
Middle	1.68	20.97	PASS	
Highest	-0.07	20.97	PASS	

Test plots as follows:

World Standard Continues of Party Stroup ISh









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Center 2.480000 GHz #Res BW 2.0 MHz

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Span 10.00 MHz

Member of the WSCT INC

Sweep 1.33 ms (10001 pts)





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#Video BW 6.0 MHz







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> Center 2.402000 GHz #Res BW 2.0 MHz

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Span 10.00 MHz Sweep 1.33 ms (10001 pts)

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#Video BW 6.0 MHz



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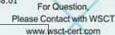






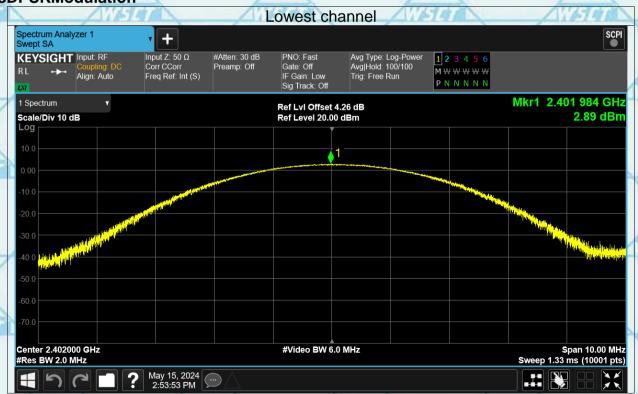
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8DPSKModulation





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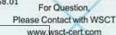


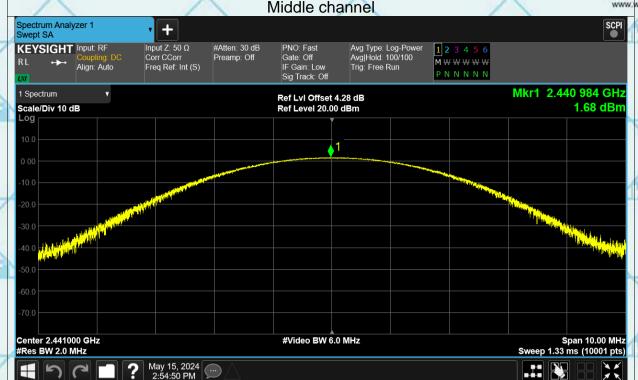


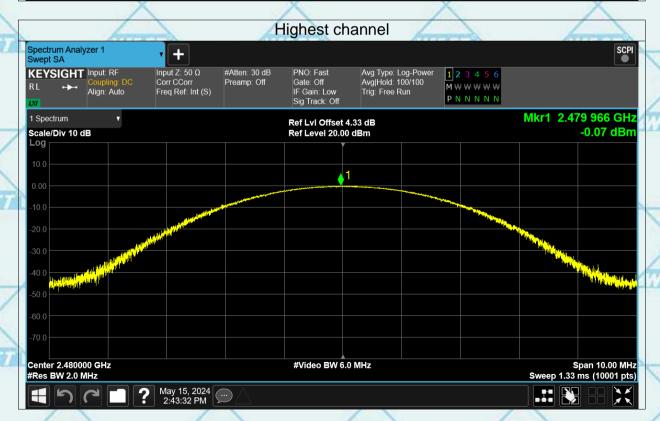


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6.3. 20dB Occupy Bandwidth

6.3.1. Test Specification

100	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
	Test Method:	ANSI C63.10:2014
	Limit:	N/A
7	Test Setup:	Spectrum Analyzer EUT
	Test Mode:	Transmitting mode with modulation
	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤ RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
	Test Result:	PASS



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6.3.2. Test data

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Toot obonnol	-20	dB Occupy Band	dwidth (MHz)
Test channel	GFSK	π/4-DQPSK	8DPSK	Conclusion
Lowest	1.015	1.337	1.347	PASS
Middle	1.026	1.361	1.323	PASS
Highest	1	1.337	1.324	PASS

Test plots as follows:

WESTER	WEIGH	WHI I	WEIGH	WEIT	
	\times	\times	ET AT AT I		7674
WETER	WSG	WHAT	WEIGH	WSTEE	
	\times	\times	ET AT AT A		75190
WESTER	WSTRI	WESTER	NV-51-01	NVATE I	
	\times	\times	\times		115101
AT STATE	WASTER	WEIR	WESTER OF	N/A-T-9	
	\times	\times	110 NV		Westgra
Cashification	Testing Giga				A.A. A. Maria

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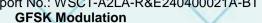




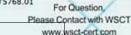




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Pi/4DQPSK Modulation

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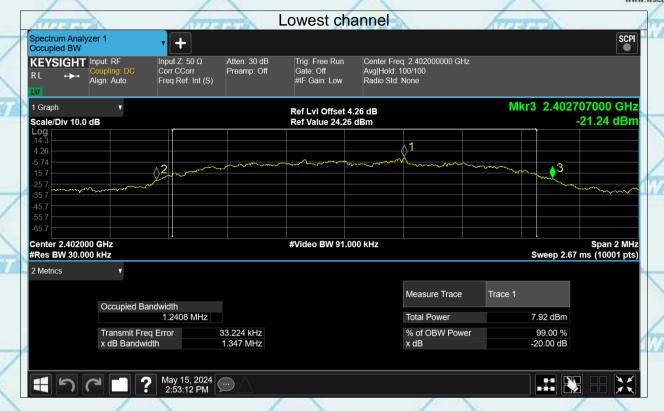




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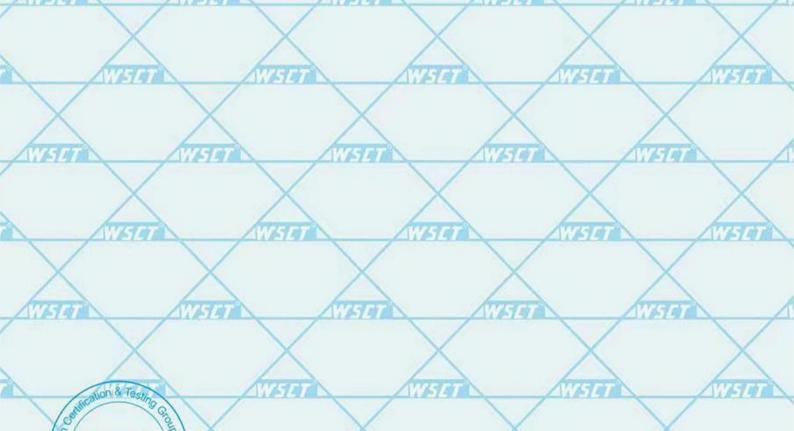
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6.4. Carrier Frequencies Separation

6.4.1. Test Specification

	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
0	Test Method:	ANSI C63.10:2014
	Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
	Test Setup:	Spectrum Analyzer EUT
	Test Mode:	Hopping mode
	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
	Test Result:	PASS











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6.4.2. Test data

	man A Date of the Control of the Con		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
GFSK mode					
2	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	
	Lowest	1.024	2/3*20dB BW	PASS	
	Middle	1.01	2/3*20dB BW	PASS	
	Highest	1 /	2/3*20dB BW	PASS	

		Pi/4 DQPSK	mode		
ì	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	
	Lowest	0.998	2/3*20dB BW	PASS	
	Middle	0.998	2/3*20dB BW	PASS	
	Highest	1 /	2/3*20dB BW	PASS	

8DPSK mode				
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	
Lowest	0.998	2/3*20dB BW	PASS	
Middle	0.998	2/3*20dB BW	PASS	
Highest	W557 1.002	2/3*20dB BW	PASS	

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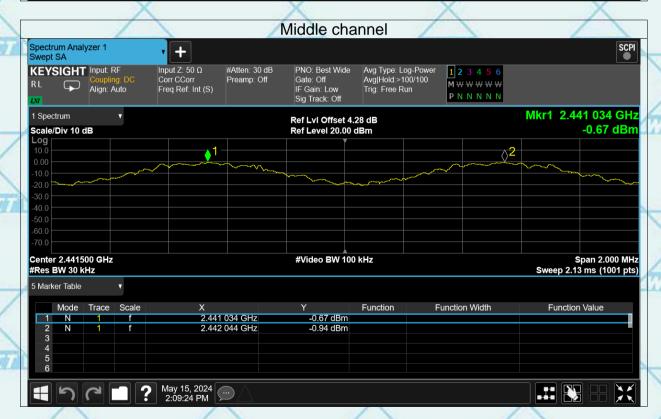


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GFSK Modulation













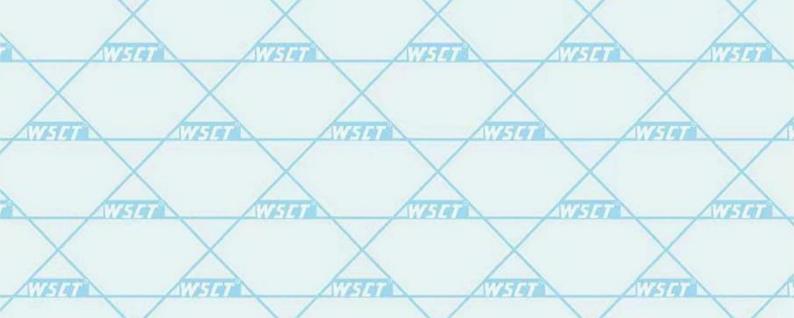


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For Question, Please Contact with WSCT www.wsct-cert.com Highest channel Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold:>100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 ___ M ₩ ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Trig: Free Run Mkr1 2.479 038 GHz 1 Spectrum Ref LvI Offset 4.33 dB Ref Level 20.00 dBm -2.55 dBm Scale/Div 10 dB Center 2.479500 GHz #Res BW 30 kHz Span 2.000 MHz Sweep 2.13 ms (1001 pts) #Video BW 100 kHz





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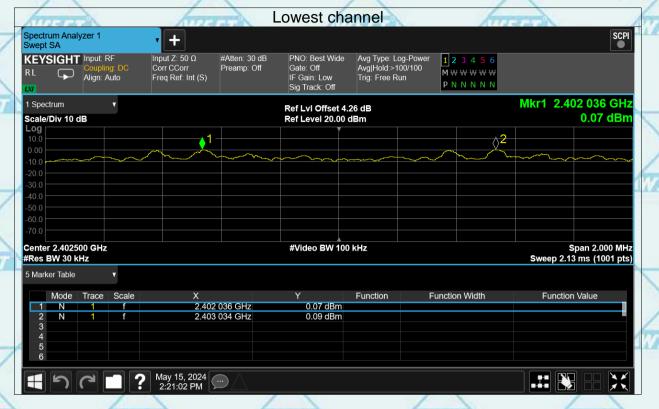


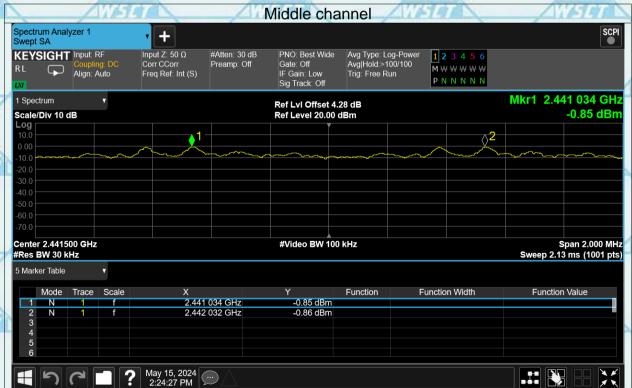


Pi/4DQPSK Modulation

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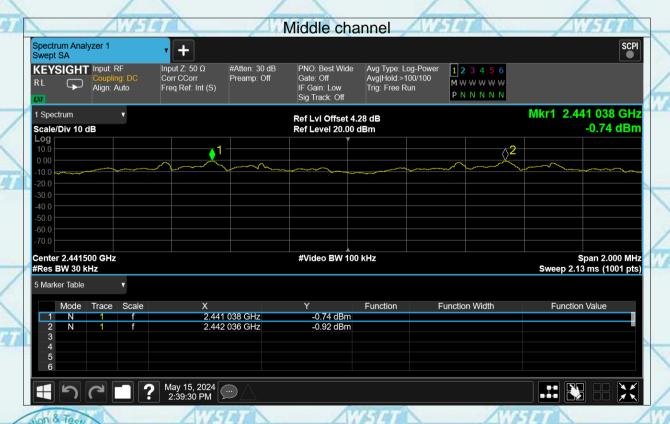


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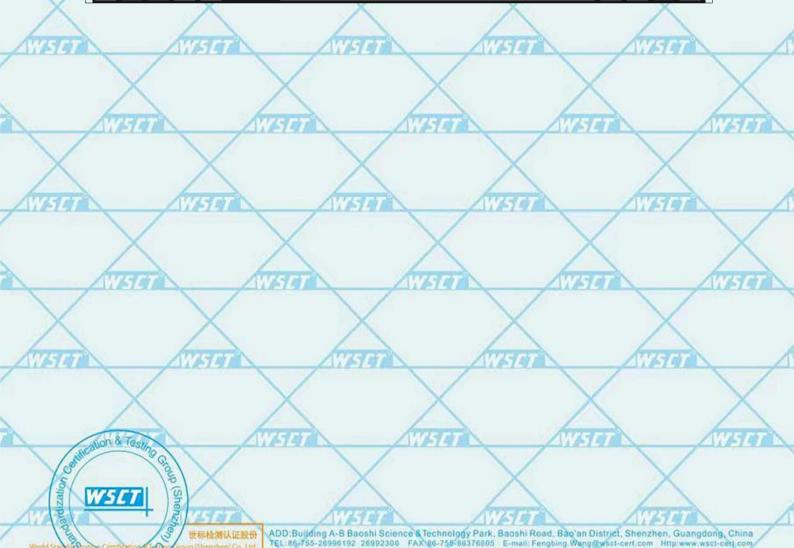


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6.5. Hopping Channel Number

6.5.1. Test Specification

1747 HE
5 MHz
X
7474
e tor. The or each
s: Span = W to less dB V; Sweep ax hold. efined as







Limit





Report No.: WSCT-A2LA-R&E240400021A-BT

Mode

6.5.2. Test data

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Result

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X	GFSK, P/4-DQPSK, 8DPSK	79	15	PASS	
AVETUE T	est plots as follows:	YIN	SYFIELD	AVETTE	
	WEIGHT.	NIE 14	772-14		WETER A
AVELO	WEIGH	WATER OF THE PARTY	V/2-141	WHITE	
	WHE	NIET 4	W.1519		WET #
NESTA	WEIGH	WEIGH	WESTER	WSET	
	VI-144	VI-10	V/4-14		100
N/SIM	WSEI	VISTRI	W5199	V6198	
	WEIGH	X	X		115101
NVETTE	WHE	VI-100	Wester	V/659.0	
	XX	Wister			WEIGH
A dization (A)	VSET Steeling Graup (Shenz)	VI-191	V619	2700	

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Hopping channel

numbers

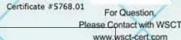


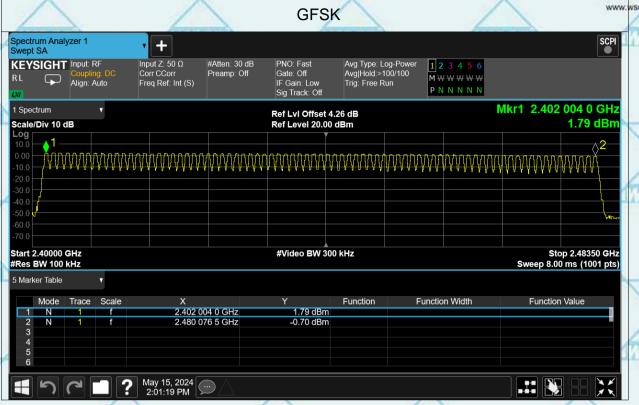


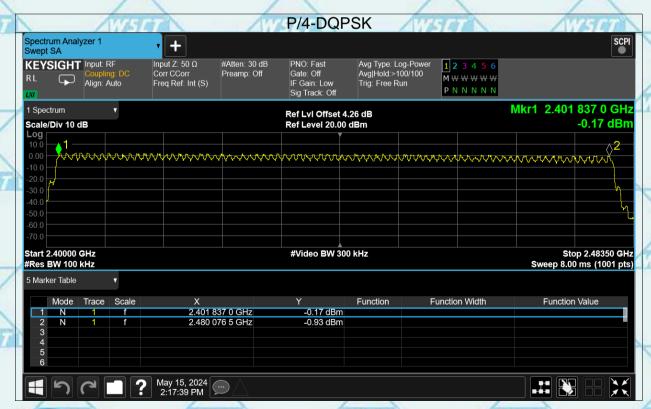




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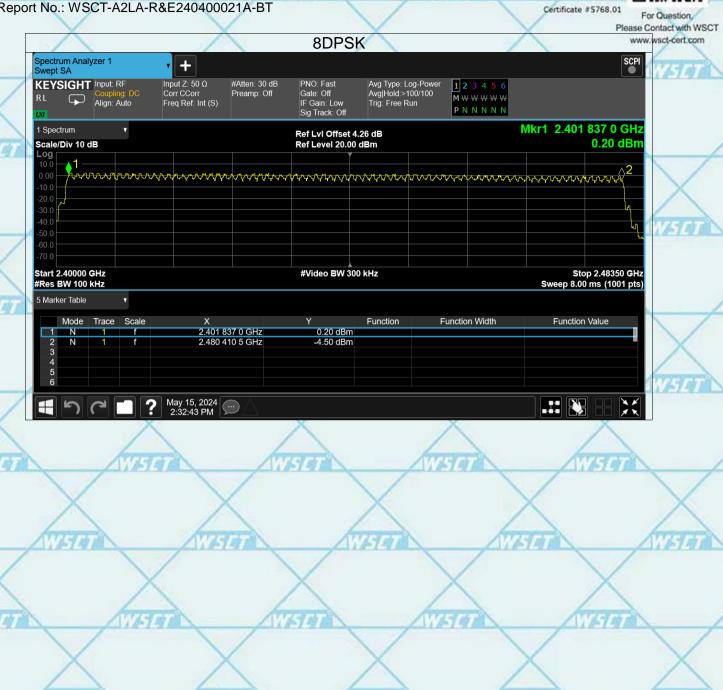








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6.6. Dwell Time

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Hopping mode W5777
Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test Result:	PASS











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6.6.2. Test Data

-	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
	1-DH1	2402	0.384	61.056	159	31600	400	Pass
	1-DH1	2441	0.384	57.984	151	31600	400	Pass
A	1-DH1	2480	0.385	61.6	160	31600	400	Pass
	1-DH3	2402	1.641	172.305	105	31600	400	Pass
	1-DH3	2441	1.64	173.84	106	31600	400	Pass
	1-DH3	2480	1.641	167.382	102	31600	400	Pass
	1-DH5	2402	2.887	280.039	97	31600	400	Pass
1	1-DH5	2441	2.887	300.248	104	31600	400	Pass
	1-DH5	2480	2.885	314.465	109	31600	400	Pass

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600/2/79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/2/79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate (1600/4/79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/4/79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate (1600/6/79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/6/79) \times (0.4 \times 79) = 106.67$ hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

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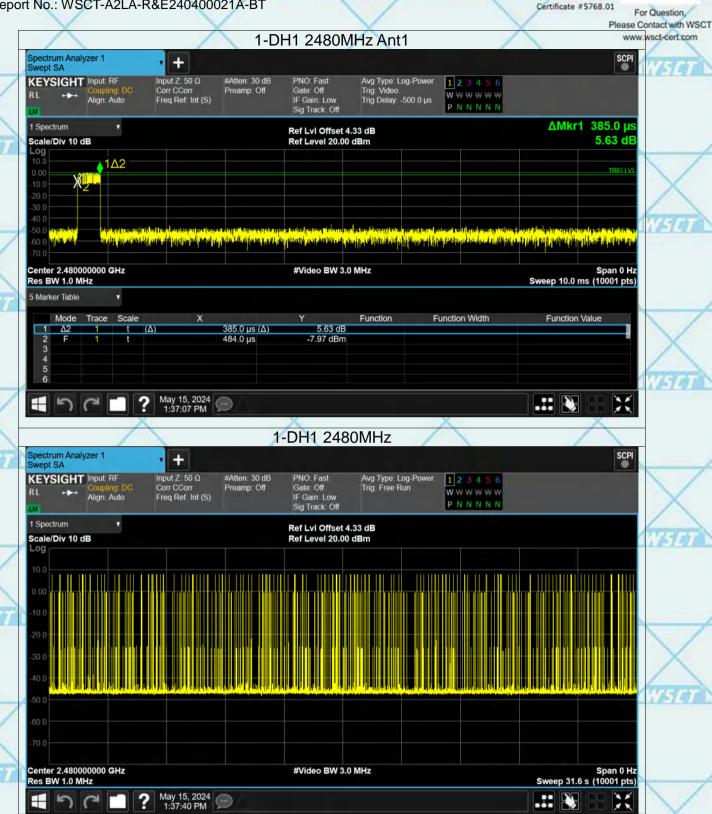






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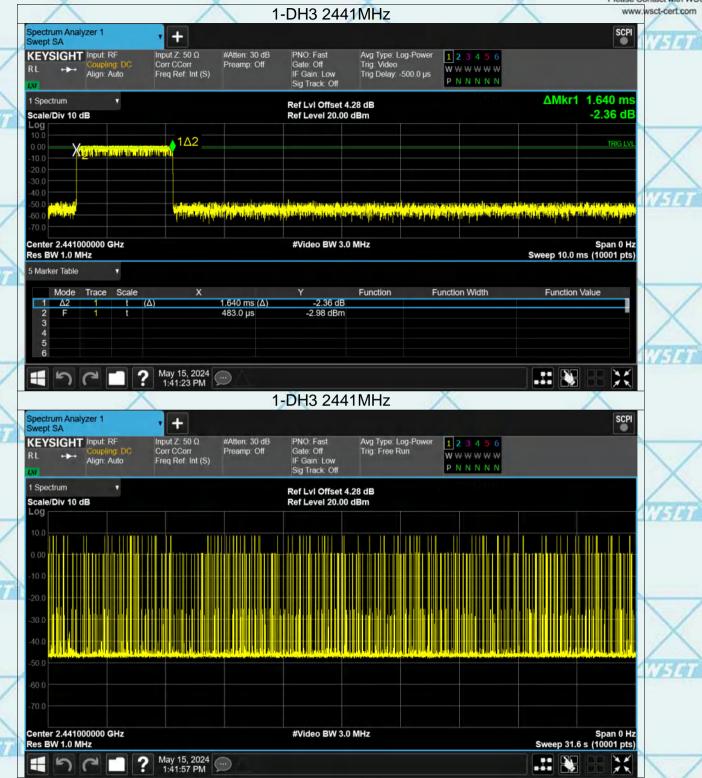






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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com 1-DH3 2480MHz Spectrum Analyzer 1 SCPI + Input Z: 50 Ω #Atten: 30 dB PNO: Fast Gate: Off KEYSIGHT Input: RF Avg Type: Log-Power 1 2 3 4 5 6 Preamp: Off w w w w w Align: Auto IF Gain: Low Sig Track: Off Trig Delay: -500.0 µs Freq Ref: Int (S) PNNNNN 1 Spectrum ΔMkr1 1.641 ms Ref LvI Offset 4.33 dB 5.90 dB Scale/Div 10 dB Ref Level 20.00 dBm 1Δ2 Center 2.480000000 GHz #Video BW 3.0 MHz Span 0 Hz Sweep 10.0 ms (10001 pts) Res BW 1.0 MHz 5 Marker Table **Function Width** Function Value Mode Function 1.641 ms (Δ) 5.90 dB -8.26 dBm May 15, 2024 1:42:02 PM 1-DH3 2480MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Trig: Free Run Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off WWWWW Align: Auto PNNNNN Ref LvI Offset 4.33 dB Scale/Div 10 dB Ref Level 20.00 dBm



Center 2.480000000 GHz

May 15, 2024 1:42:35 PM

Res BW 1.0 MHz

Log

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#Video BW 3.0 MHz

Span 0 Hz

Sweep 31.6 s (10001 pts)



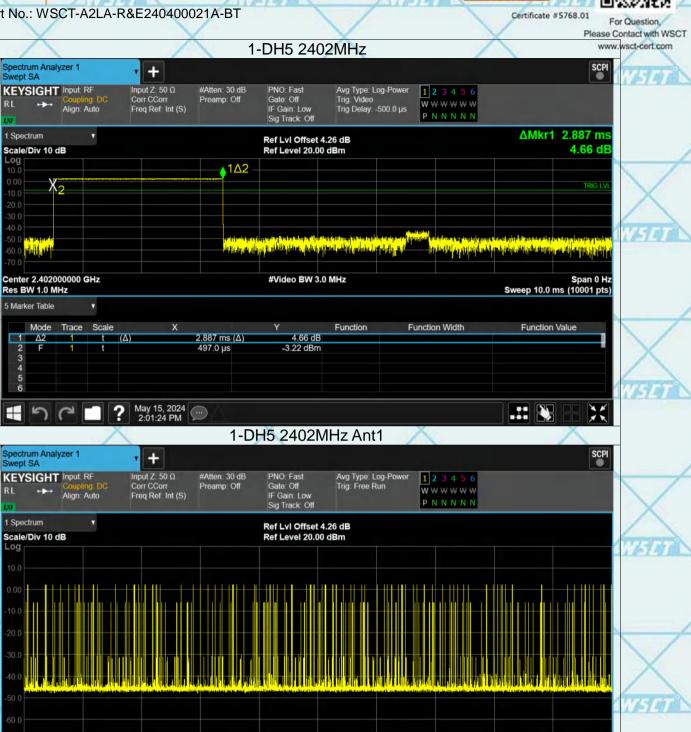






Report No.: WSCT-A2LA-R&E240400021A-BT







Center 2.402000000 GHz

May 15, 2024 2:01:58 PM

Res BW 1.0 MHz

Log

#Video BW 3.0 MHz

Span 0 Hz

Sweep 31.6 s (10001 pts)









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Certificate #5768.01 For Question, Please Contact with WSCT 1-DH5 2441MHz www.wsct-cert.com Spectrum Analyzer 1 SCPI + Input Z: 50 Ω #Atten: 30 dB PNO: Fast Gate: Off KEYSIGHT Input: RF Avg Type: Log-Power 1 2 3 4 5 6 Preamp: Off w w w w w Align: Auto IF Gain: Low Sig Track: Off Trig Delay: -500.0 µs Freq Ref: Int (S) PNNNNN 1 Spectrum ΔMkr1 2.887 ms Ref LvI Offset 4.28 dB 1.80 dB Scale/Div 10 dB Ref Level 20.00 dBm **1**Δ2 XII. 1864 m., jida, kistoma ila, irakiranjeja, aistoma ila, kastonjek te an not for the first the state of Center 2.441000000 GHz #Video BW 3.0 MHz Span 0 Hz Sweep 10.0 ms (10001 pts) Res BW 1.0 MHz 5 Marker Table **Function Width** Function Value Mode Function 2.887 ms (Δ) 1.80 dB -11.87 dBm May 15, 2024 2:05:27 PM 1-DH5 2441MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Trig: Free Run Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off WWWWW Align: Auto PNNNNN Ref LvI Offset 4.28 dB Scale/Div 10 dB Ref Level 20.00 dBm



Center 2.441000000 GHz

May 15, 2024 2:06:00 PM

Res BW 1.0 MHz

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#Video BW 3.0 MHz

Span 0 Hz

Sweep 31.6 s (10001 pts)









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6.7. Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

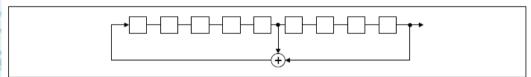
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

EUT Pseudorandom Frequency Hopping Sequence

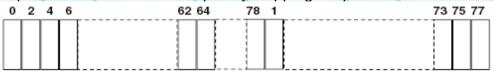
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized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

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



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

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











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6.8. Conducted Band Edge Measurement

6.8.1. Test Specification

mit: est Setup: est Mode:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fa in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3.
	5. Measure and record the results in the test report.









6.8.2. Test Data

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GFSK Modulation (the worst case)





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1 Spectrum

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Certificate #5768.01 For Question, Please Contact with WSCT Band Edge(Hopping) 1-DH5 2480MHz www.wsct-cert.com Spectrum Analyzer 1 SCPI + Input Z: 50 Ω #Atten: 30 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 2000/2000 KEYSIGHT Input: RF Corr CCorr ____ M ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Freq Ref: Int (S) Trig: Free Run Mkr1 2.478 880 GHz Ref Lvl Offset 4.33 dB Scale/Div 10 dB Ref Level 20.00 dBm -0.76 dBm Mary my har Center 2.480000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz May 15, 2024 2:09:36 PM 噩 Band Edge(Hopping) 1-DH5 2480MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 2000/2000 Trig: Free Run Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off MWWWWW Align: Auto PNNNNN Mkr1 2.478 0 GHz Ref LvI Offset 4.33 dB -0.66 dBm Scale/Div 10 dB Ref Level 20.00 dBm DL1 -20.76 d \$2 \$2,000 milion (1,000 milion) weente to the properties the properties of Start 2.47600 GHz #Video BW 300 kHz Stop 2.57600 GHz #Res BW 100 kHz Sweep 9.60 ms (1001 pts) **Function Width** Function Value Scale **Function** 2.478 0 GHz -0.66 dBm 2.483 5 GHz 2.500 0 GHz 2.487 2 GHz -55.26 dBm -52.10 dBm



AAAA.

5 Marker Table

5

Mode

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May 15, 2024 2:10:04 PM

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-46.72 dBm









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6.9. Conducted Spurious Emission Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS



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Test Data GFSK mode





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Report No.: WSCT-A2LA-R&E240400021A-BT Pi/4DQPSK mode

Certificate #5768.01

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Report No.: WSCT-A2LA-R&E240400021A-BT



Certificate #5768.01







1 Spectrum

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World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd.







Report No.: WSCT-A2LA-R&E240400021A-BT



Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com 2-DH5 2480MHz SCPI Spectrum Analyzer 1 + Input Z: 50 Ω #Atten: 20 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr ____ M ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Freq Ref: Int (S) Trig: Free Run Mkr1 2.479 865 0 GHz Ref Lvl Offset 4.33 dB -1.06 dBm Scale/Div 10 dB Ref Level 14.33 dBm Center 2.4800000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz May 15, 2024 2:51:06 PM 2-DH5 2480MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 30/30 Trig: Free Run Input Z: 50 Ω #Atten: 20 dB PNO: Fast KEYSIGHT Input: RF 123456 Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off MWWWWW Align: Auto PNNNNN Mkr1 2.483 GHz Ref LvI Offset 4.33 dB -3.65 dBm Scale/Div 10 dB Ref Level 14.33 dBm **∂**5 Start 30 MHz #Video BW 300 kHz Stop 26.50 GHz #Res BW 100 kHz Sweep ~2.57 s (3001 pts) 5 Marker Table **Function Width** Function Value Scale Function -3.65 dBm 7.442 GHz 4.962 GHz 7.442 GHz -38.75 dBm -45.95 dBm



Mode

5

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-38.75 dBm

-42.53 dBm

9.921 GHz

May 15, 2024 2:52:32 PM













May 15, 2024 2:53:47 PM

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1 Spectrum

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Report No.: WSCT-A2LA-R&E240400021A-BT



Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com 3-DH5 2480MHz SCPI Spectrum Analyzer 1 + Input Z: 50 Ω #Atten: 20 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr ____ M ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Freq Ref: Int (S) Trig: Free Run Mkr1 2.480 040 5 GHz Ref Lvl Offset 4.33 dB Scale/Div 10 dB Ref Level 14.33 dBm -0.89 dBm Center 2.4800000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz May 15, 2024 2:43:52 PM 3-DH5 2480MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 10/10 Trig: Free Run Input Z: 50 Ω #Atten: 20 dB PNO: Fast KEYSIGHT Input: RF 123456 Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off MWWWWW Align: Auto PNNNNN Mkr1 2.480 2 GHz Ref LvI Offset 4.33 dB -4.49 dBm Scale/Div 10 dB Ref Level 14.33 dBm DL1-20.89 dt **∂**5 #Video BW 300 kHz Stop 26.50 GHz #Res BW 100 kHz Sweep ~2.53 s (30001 pts) **Function Width** Function Value Scale Function



Start 30 MHz

5 Marker Table

5

Mode

-4.49 dBm

-37.55 dBm -46.16 dBm -37.55 dBm

-42.65 dBm

2.480 2 GHz

7.439 8 GHz 4.960 5 GHz 7.439 8 GHz

9.920 1 GHz

May 15, 2024 2:44:23 PM









Certificate #5768.01

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6.10. Conducted Emission

6.10.1. Test Specification

6.10.1. Test Specification	on /
Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2014
Frequency Range:	150 kHz to 30 MHz
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto
Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50
X	Reference Plane
WEST WEST	40cm 80cm LISN
Test Setup:	E.U.T AC power Test table/Insulation plane Remark
Test Mode:	E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m Refer to item 4.1
WETER A	The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
Test Procedure:	 The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum
ation & Testin	conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement.
Test Result:	PASS

W5ET

S DUOM * PT









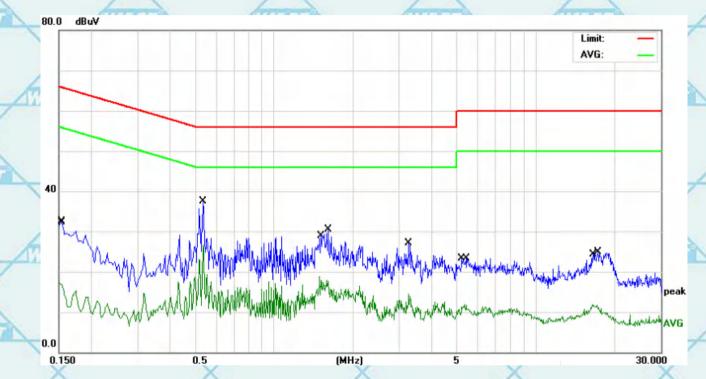
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6.10.2. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1499	6.81	10.45	17.26	56.00	-38.74	AVG
2		0.1539	21.98	10.45	32.43	65.78	-33.35	QP
3	*	0.5340	26.97	10.52	37.49	56.00	-18.51	QP
4		0.5340	16.16	10.52	26.68	46.00	-19.32	AVG
5		1.4939	8.21	10.63	18.84	46.00	-27.16	AVG
6		1.6019	19.81	10.65	30.46	56.00	-25.54	QP
7		3.2620	16.37	10.72	27.09	56.00	-28.91	QP
8		3.2620	3.87	10.72	14.59	46.00	-31.41	AVG
9		5.1979	12.64	10.74	23.38	60.00	-36.62	QP
10		5.3459	1.22	10.75	11.97	50.00	-38.03	AVG
11		16.4539	0.72	11.16	11.88	50.00	-38.12	AVG
12		17.2019	13.75	11.13	24.88	60.00	-35.12	QP

WSGI

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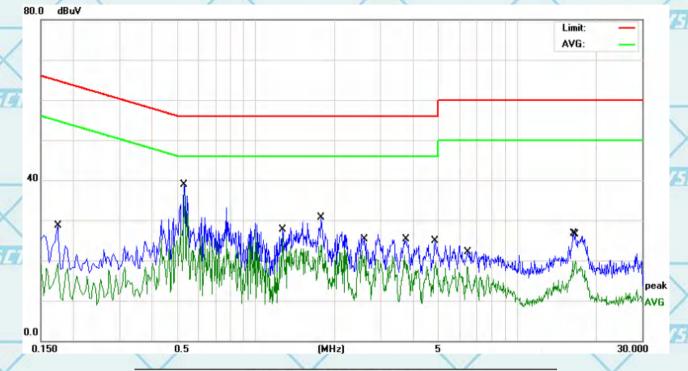




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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1740	18.21	10.45	28.66	64.76	-36.10	QP
2		0.1740	8.81	10.45	19.26	54.76	-35.50	AVG
3	*	0.5299	26.42	10.52	36.94	46.00	-9.06	AVG
4	1	0.5340	27.95	10.52	38.47	56.00	-17.53	QP
5		1.2660	15.56	10.59	26.15	46.00	-19.85	AVG
6		1.7780	20.01	10.67	30.68	56.00	-25.32	QP
7		2.6340	10.79	10.72	21.51	46.00	-24.49	AVG
8		3.7420	14.50	10.73	25.23	56.00	-30.77	QP
9		4.8380	14.21	10.74	24.95	56.00	-31.05	QP
10		6.4500	7.69	10.77	18.46	50.00	-31.54	AVG
11		16.4700	15.50	11.16	26.66	60.00	-33.34	QP
12		16.7300	8.65	11.15	19.80	50.00	-30.20	AVG
_	_			W.				

Note:

DUOM * PI

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.









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3

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6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

7	6.11.1. Test Specification	/		1			
	Test Requirement:	FCC Part15	C Sectio	n 15.209		X	
9	Test Method:	ANSI C63.10):2014	WHI		17674	
	Frequency Range:	9 kHz to 25 (GHz		1	/	1
	Measurement Distance:	3 m					
,	Antenna Polarization:	Horizontal &	Vertical		177	7	É
-		Frequency	Detecto	r RBW	VBW	Remark	ĺ
	X	9kHz- 150kHz	Quasi-pea	ak 200Hz	1kHz	Quasi-peak Value	ĺ
		150kHz-	Quasi-pea	ak 9kHz	30kHz	Quasi-peak Value	ĺ
	Receiver Setup:	30MHz		1775/10		1975	
		30MHz-1GHz	Quasi-pea	ak 100KHz	300KHz	Quasi-peak Value	Š
		Above 1GHz	Peak	1MHz	3MHz	Peak Value	ĺ
	\wedge	Above 10112	Peak	1MHz	10Hz	Average Value	ĺ
	WEST AVESTE		ATTITLE	Field Stre	enath	Measurement	4
7	177-19	Frequen	су	(microvolts		Distance (meters)	ŀ
		0.009-0.4	190	2400/F(H	,	300	ĺ
	X	0.490-1.7	705	24000/F(,	30	ĺ
2		1.705-3	0	30		30	
	11514	30-88		100		3	L

Limit:

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Ab 4011-	500	3	Average
Above 1GHz	5000	3	Peak

150

200

500

For radiated emissions below 30MHz

Distance = 3m

88-216

216-960

Above 960

30MHz to 1GHz

WSGT

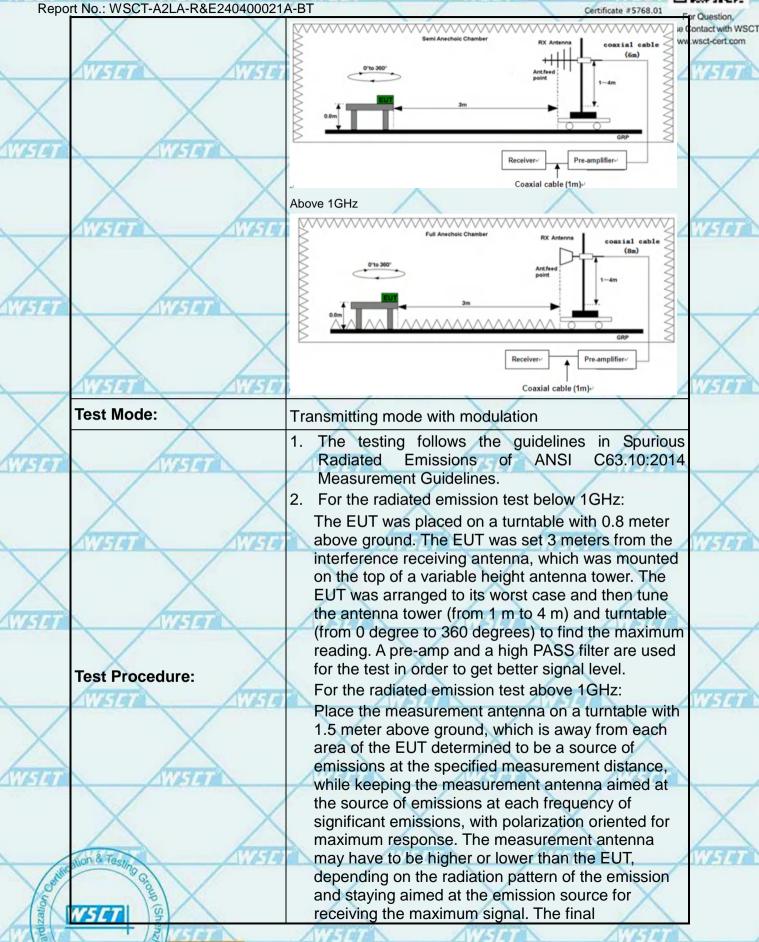
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Repo	rt No.: WSCT-A2LA-R&E240400021	_		Certificate #5768.01	For Question,
	X			a elevation shall be that which	
				ons. The measurement	
	WSG AWSG			maximum emissions shall be	WSET
/				f heights of from 1 m to 4 m	
X	×			eference ground plane.	
		3.		power setting and enable the	;
AVZTE	WSFI	1	EUT transmit continue	1 A 7 B B C	
		4.	Use the following spe	ctrum analyzer settings:	
	\vee		(1) Span shall wide e	enough to fully capture the	
			emission being m	neasured;	
	ATTENDED ATTENDED		(2) Set RBW=100 kH	Iz for f < 1 GHz, RBW=1MHz	117733
	01714		for f>1GHz; VBW		1614
			Sweep = auto; D	Detector function = peak; Trace	}
			= max hold for p	eak	
ATTANA	(max	1	(3) For average mea	asurement: use duty cycle	
ZIFITE	110130		correction factor	1 API 2 API	/
				cle = On time/100 milliseconds	
				·N2*L2++Nn-1*LNn-1+Nn*Lr	
	ATTENDED ATTENDED			mber of type 1 pulses, L1 is	(112)
1	CIETA CIETA		length of type 1	The second secon	TEL TAIL
				on Level = Peak Emission	
			Level + 20*log(D		
house	- American	1	(Asserted to the second	The second second	
ZIF19E	TIP34B	1		ig: Antenna Factor + Cable	/
			Loss + Read Leve	el - Preamp Factor = Level	\/
	Test results:	PAS	SS		
	Amara Amara	-3/	ATTEN	AUGGE	ATTEN
1	11019		JIF140	10198	LIFT THE
				\wedge	
17514	MISS	1	Trans.	WSIGT AVSIGT	
CIPITA	177797	1	1679	I FINE	
	\wedge				
	NV65100 NV2510	1	176300	772766	ATTENDED TO











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6.11.2. Test Data

Please refer to following diagram for individual

Below 1GHz

(the worst case)



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	red.	e).
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	/
	1	- /	30.0000	31.16	-2.60	28.56	40.00	-11.44	QP	1
	2	*	36.5092	32.27	-1.95	30.32	40.00	-9.68	QP	Ż
1	3		46.8303	27.71	-2.02	25.69	40.00	-14.31	QP	
	4		146.8877	27.29	-1.83	25.46	43.50	-18.04	QP	
1	5	Ŋ.	300.3672	29.13	-2.49	26.64	46.00	-19.36	QP	,
	6		912.8620	27.83	7.79	35.62	46.00	-10.38	QP	

WSET SPORT

110191

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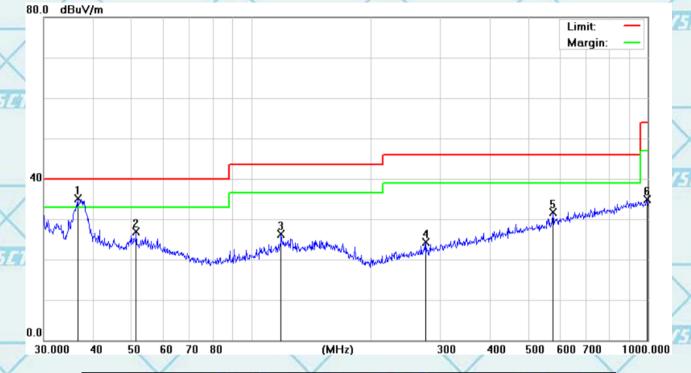


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Vertical:

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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Take,
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	36.5092	37.15	-1.95	35.20	40.00	-4.80	QP
12	2	Ai.	51.3005	29.21	-2.23	26.98	40.00	-13.02	QP
P	3		119.0180	30.15	-3.81	26.34	43.50	-17.16	QP
	4		276.1235	27.44	-3.19	24.25	46.00	-21.75	QP
	5	D	576.6443	28.43	3.26	31.69	46.00	-14.31	QP
	6		996.4996	26.43	8.53	34.96	54.00	-19.04	QP
-									

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

e 150 kHz to 30MHz.



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Above 1GHz

GFSK

	Freq. (MHz)	Low channel: 2402MHz							
		Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
		H/V	PK	AV	PK	AV	PK	AV	
1	4804	V	59.49	39.80	74	54	-14.51	-14.20	
	7206	V	58.74	39.21	74	54	-15.26	-14.79	
	4804	Η	58.23	40.67	74	54	-15.77	-13.33	
	7206	T	58.17	39.17	74	54	-15.83	-14.83	

	ALLEY AND ADDRESS.		JULIA WALLEY	21.7		40.7	T J - B - L - M h		
	Freq. (MHz)	Middle channel: 2441MHz							
		Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV	
١	4882	V	59.27	39.73	74	54	-14.73	-14.27	
	7323	V	58.78	40.06	74	54	-15.22	-13.94	
	4882	Ι	59.97	39.17	74	54	-14.03	-14.83	
	7323	Τ	58.19	39.19	74	54	-15.81	-14.81	

* Character Control of the Control o		"telededentimbus"		Company of the last of the las	A	Continue of the last		
Frog	High channel: 2480MHz							
Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m(dBuV/m)		Over(dB)		
(IVITIZ)	H/V	PK	AV	PK	AV	PK	AV	
4960	V	59.54	41.96	74	54	-14.46	-12.04	
7440	A	59.09	40.59	74	54	-14.91	-13.41	
4960	Н	58.45	40.79	74	54	-15.55	-13.21	
7440	Н	59.29	40.29	74	54	-14.71	-13.71	

Note:

- 1. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 2. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 3. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
- 4. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

Warld Stand 18 20 Control of 19 19 Show Strong ISh

WETER NETERIN

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Report No.: WSCT-A2LA-R&E240400021A-BT Restricted Bands Requirements

Test result for GFSK Mode(the worst case)

Frequency Reading			2/11/J ell als 1	ATTIGUE			
Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	
(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
MITTER		Low Cha	nnel	Kings	1	1112	
62.66	-8.94	53.72	74	-20.28	F	PK	
45.96	-8.94	37.02	54	-16.98	н	AV	
64.57	-8.94	55.63	74	-18.37	V	PK	
44.22	-8.94	35.28	54	-18.72	VV5	AV	
66.24	-8.73	57.51	74	-16.49	Н	PK	
47.05	-8.73	38.32	54	-15.68	I	AV	
67.16	-8.73	58.43	74	-15.57	V	PK	
48.28	-8.73	39.55	54	-14.45	V	AV	
	X	High Cha	nnel		X		
66.44	-8.17	58.27	74	-15.73	H	PK	
51.67	-8.17	43.50	54	-10.50	HIFT	AV	
68.94	-8.17	60.77	74	-13.23	V	PK	
48.23	-8.17	40.06	54	-13.94	V	AV	
	Reading (dBuV/m) 62.66 45.96 64.57 44.22 66.24 47.05 67.16 48.28 66.44 51.67 68.94	Reading (dBuV/m) Correct Factor 62.66 -8.94 45.96 -8.94 64.57 -8.94 44.22 -8.94 66.24 -8.73 47.05 -8.73 67.16 -8.73 48.28 -8.73 66.44 -8.17 51.67 -8.17 68.94 -8.17	Reading (dBuV/m) Correct Factor Emission Level (dBuV/m) dB/m (dBuV/m) Low Charman Low Charman 62.66 -8.94 53.72 45.96 -8.94 37.02 64.57 -8.94 55.63 44.22 -8.94 35.28 66.24 -8.73 57.51 47.05 -8.73 38.32 67.16 -8.73 58.43 48.28 -8.73 39.55 High Charman 66.44 -8.17 58.27 51.67 -8.17 43.50 68.94 -8.17 60.77	Reading (dBuV/m) Correct Factor Emission Level Limit Level (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) 62.66 -8.94 53.72 74 45.96 -8.94 37.02 54 64.57 -8.94 55.63 74 44.22 -8.94 35.28 54 66.24 -8.73 57.51 74 47.05 -8.73 38.32 54 67.16 -8.73 58.43 74 48.28 -8.73 39.55 54 High Channel 66.44 -8.17 58.27 74 51.67 -8.17 43.50 54 68.94 -8.17 60.77 74	Reading (dBuV/m) Correct Factor Emission Level Limit Level Margin Low Channel 62.66 -8.94 53.72 74 -20.28 45.96 -8.94 37.02 54 -16.98 64.57 -8.94 55.63 74 -18.37 44.22 -8.94 35.28 54 -18.72 66.24 -8.73 57.51 74 -16.49 47.05 -8.73 38.32 54 -15.68 67.16 -8.73 58.43 74 -15.57 48.28 -8.73 39.55 54 -14.45 High Channel 66.44 -8.17 58.27 74 -15.73 51.67 -8.17 43.50 54 -10.50 68.94 -8.17 60.77 74 -13.23	Reading (dBuV/m) Correct Factor Emission Level Limit Level Margin (dBuV/m) Polar Low Channel 62.66 -8.94 53.72 74 -20.28 H 45.96 -8.94 37.02 54 -16.98 H 64.57 -8.94 55.63 74 -18.37 V 44.22 -8.94 35.28 54 -18.72 V 66.24 -8.73 57.51 74 -16.49 H 47.05 -8.73 38.32 54 -15.68 H 67.16 -8.73 58.43 74 -15.68 H 48.28 -8.73 39.55 54 -14.45 V High Channel 66.44 -8.17 58.27 74 -15.73 H 51.67 -8.17 43.50 54 -10.50 H 68.94 -8.17 60.77 74 -13.23 V	

Note: Freq. = Emission frequency in MHz Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Level $(dB\mu V)$ – Limits $(dB\mu V)$

*****END OF REPORT*****

WSET STANDERS OF STREET OF STREET STANDERS STREET S

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