





Certificate #5768.01

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EST REPORT

FCC ID: 2AEJAFLIP

Product: MOBILE PHONE

Model No.: FLIP

Additional Model No.: N/A

Trade Mark: RAYO MOVIL

Report No.: WSCT-A2LA-R&E220900006A-BT

Issued Date: 13 October 2022

Issued for:

GSM GLOBE.COM INC

8180 NW 36 Street Suite 317 Doral FL 33166.

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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Test Certification

Report No.: WSCT-A2LA-R&E220900006A-BT

Product: MOBILE PHONE

Model No .: FLIP

Additional

N/A Model:

Applicant: GSM GLOBE.COM INC

Address: 8180 NW 36 Street Suite 317 Doral FL 33166.

Manufacturer: GSM GLOBE, COM INC

Address: 8180 NW 36 Street Suite 317 Doral FL 33166.

Date of Test: 23 August 2022 to 13 October 2022

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

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:

(Wang Xiang)

Checked By:

(Qin Shugiuan)

Approved By:

(Wang Fengbing)

Date: 15 October

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2. Test Result Summary

	1023	THE TOTAL PROPERTY OF THE PARTY	ATTENDED OF
7	Requirement	CFR 47 Section	Result
	Antenna Requirement	§15.203/§15.247 (c)	PASS
0	AC Power Line Conducted Emission	§15,207	PASS
	Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS
1	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
_	Carrier Frequencies Separation	§15.247 (a)(1)	PASS
	Hopping Channel Number	§15.247 (a)(1)	PASS
7	Dwell Time	§15.247 (a)(1)	PASS
	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS
	CITAL AND A STATE OF THE STATE	The Table 1	A CONTRACT OF THE PARTY OF THE

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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3. **EUT Description**

MOBILE PHONE W5///
FLIP
N/A
RAYO MOVIL
2402MHz~2480MHz
1MHz W5//
79
GFSK, π/4-DQPSK, 8DPSK
FHSS
Integral Antenna
-10.01dBi
Model: FLIP Type: 3.7V Rated Capacity: 800mAh/2.96Wh Max Charge Voltage: 4.2V
Model: Rok2 Input: 100-240V~50/60Hz 0.15A Output:5.0V===1A
N/A.



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

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
	X		X		X		X
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	17276	- /
					-014 /4 -04	Complete Street, Stree	

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

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	19 8				FIRE
WEIGT	Wester	WET IN	WATER	N/STATE	
	100				F19.0
WESTER	Wiston	WESTER	W5191	WATER	,
	$\langle \ \rangle$	THE AVE			679
MYSTOT	WASTER	WESTER	NIST #	WEIGH	
	$\langle \rangle$	191 W			F-7 0 0
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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 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	Adapter	1	1	ADAPTER

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 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

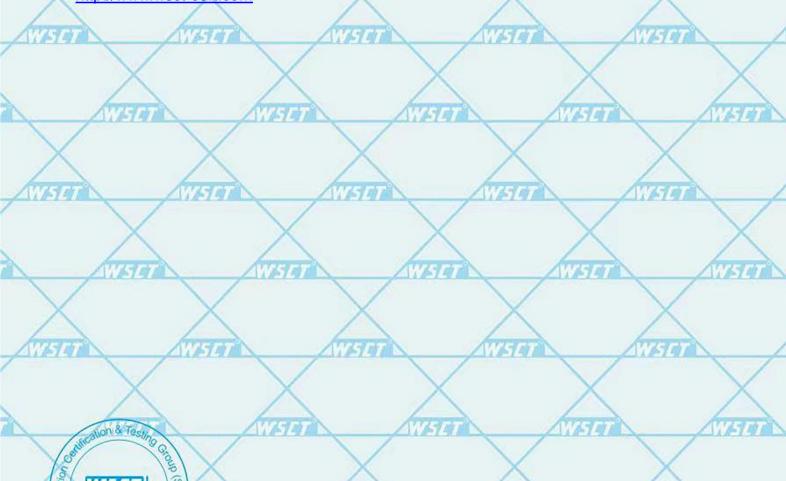
China National Accreditation Service for Conformity Assessment (CNAS)
Registration number NO: L3732

American Association for Laboratory Accreditation(A2LA)

Registration NO: 5768.01

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Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct-cert.com



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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
0	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 W507	±0.5°C
	7	Humidity	±2.0%

	A1111	NYSTOT	WEIGH	NY514	WEIGH
N/ESTATI	$\langle \ \rangle$	WHI THE		5191	7/5/4
	W-5147	NV-51-81	NVET 4	Wister	VIETA I
NV651411	$\langle \ \rangle$			X	WEIGH
	WEIGH	AVISTO	AVSIG	WSIII	11/5/197
WHO	$\langle \ \rangle$			\times	N5101
	X	WATER A	WEIGH	N/STATE OF	VII-51-01
rdization Com	WSET Shenz			2700	2300

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5.4 MEASUREMENT INSTRUMENTS

	ATTI-Day of	ATT THE REAL PROPERTY.	Aller		The second	100	J.
/	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibrati on Due.	200
\	Test software		EZ-EMC	CON-03A	- /	\wedge	
9	EMI Test Receiver	R&S	/5/ ESCI	100005	11/05/2021	11/04/2022	
	LISN	AFJ	LS16	16010222119	11/05/2021	11/04/2022	1
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2021	11/04/2022	/
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2021	11/04/2022	Z:
/	Coaxial cable	Megalon	LMR400	N/A	11/05/2021	11/04/2022	
7	GPIB cable	Megalon	GPIB	N/A	11/05/2021	11/04/2022	
7	Spectrum Analyzer	R&S	FSU	100114	11/05/2021	11/04/2022	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2021	11/04/2022	
	Pre-Amplifier	CDSI	PAP-1G18-38	-	11/05/2021	11/04/2022	Z
,	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2021	11/04/2022	
	9*6*6 Anechoic		Х	X	11/05/2021	11/04/2022	
3	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	17274	11/05/2021	11/04/2022	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2021	11/04/2022	1
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2021	11/04/2022	/
	System-Controller	ccs	N/AW/SZ	N/A	N.C.R	N.C.R	Z
/	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
1	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
4	RF cable	Murata	MXHQ87WA3000	11619	11/05/2021	11/04/2022	
	Loop Antenna	EMCO	6502	00042960	11/05/2021	11/04/2022	-
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2021	11/04/2022	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2021	11/04/2022	ď.
1	Power sensor	Anritsu	MX248XD	- X	11/05/2021	11/04/2022	



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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 Integral Antenna. it meets the standards, and the best case gain of the antenna is -10.01dBi.

Antenna ·



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6.2. Conducted Emission

2.1. Test Specification	10111	100	
est Requirement:	FCC Part15 C Section	15.207	X
est Method:	ANSI C63.10:2014	AV-141	WESTER
requency Range:	150 kHz to 30 MHz		
eceiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto
imits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (d Quasi-peak 66 to 56* 56 60	dBuV) Average 56 to 46* 46 50
X	Reference	e Plane	
est Setup:	40cm E.U.T AC powe	80cm LISN Filter	—— AC power
WEIGHT AVE	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	Receiver	
est Mode:	Refer to item 4.1	X	X
est Procedure:	coupling impedance	ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm term	(L.I.S.N.). This pedance for the ected to the main a 50ohm/50uH nination. (Please
n & Text	refer to the block photographs). 3. Both sides of A.C. conducted interferer emission, the relative the interface cables	line are checkence. In order to fire positions of equipments be changed	ed for maximum nd the maximum ipment and all of according to
3000	ANSI C63.10:2014 c	on conducted mea	asurement.







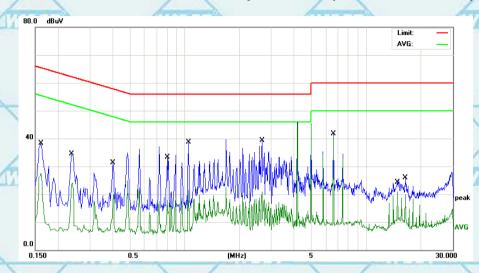
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6.2.2. Test data

Please refer to following diagram for individual

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



- 3									
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
4			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
A	1		0.1620	27.98	10.41	38.39	65.36	-26.97	QP
	2		0.2420	13.65	10.42	24.07	52.02	-27.95	AVG
	3		0.4020	20.83	10.45	31.28	57.81	-26.53	QP
_	4		0.4060	9.59	10.45	20.04	47.73	-27.69	AVG
1	5		0.8020	7.47	10.49	17.96	46.00	-28.04	AVG
	6		1.0500	28.23	10.52	38.75	56.00	-17.25	QP
4	7		2.6660	28.64	10.67	39.31	56.00	-16.69	QP
1	8		2.6660	10.16	10.67	20.83	46.00	-25.17	AVG
	9		6.6020	30.89	10.72	41.61	60.00	-18.39	QP
	10	*	6.6020	30.23	10.72	40.95	50.00	-9.05	AVG
-	11		14.8500	9.88	11.05	20.93	50.00	-29.07	AVG
1	12		16.4380	14.76	11.06	25.82	60.00	-34.18	QP
	3.7								

Note:

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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 (dB μ V) = Limit stated in standard

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

Q.P. =Quasi-Peak

AVG =average

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

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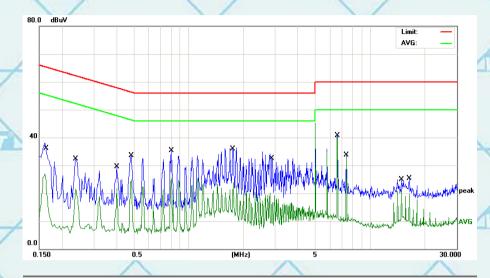


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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
ľ			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1650	23.88	10.41	34.29	65.20	-30.91	QP
j	2		0.2380	10.99	10.42	21.41	52.16	-30.75	AVG
-	3		0.4020	19.13	10.45	29.58	57.81	-28.23	QP
	4		0.4020	11.22	10.45	21.67	47.81	-26.14	AVG
	5		0.4820	14.51	10.47	24.98	46.30	-21.32	AVG
D	6		0.8020	24.78	10.49	35.27	56.00	-20.73	QP
	7		1.7620	13.28	10.62	23.90	46.00	-22.10	AVG
	8		2.8740	21.86	10.67	32.53	56.00	-23.47	QP
J	9	*	6.5940	29.16	10.72	39.88	50.00	-10.12	AVG
	10		7.4020	23.05	10.74	33.79	60.00	-26.21	QP
	11		14.8780	10.27	11.05	21.32	50.00	-28.68	AVG
	12		16.4420	14.23	11.06	25.29	60.00	-34.71	QP

Note1:

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

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak AVG =average

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

Note2:

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Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (Lowest channel and GFSK) was submitted only.

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6.3. Conducted Output Power

6.3.1. Test Specification

N A	X X X
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2014
Limit:	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.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	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.
Test Result:	PASS



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6.3.2. Test Data

GFSK mode	GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	7.68	20.97	PASS			
Middle	3.93	20.97	PASS			
Highest	2.32	20.97	PASS			

Pi/4DQPSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	1.97	20.97	PASS			
Middle	3.35	20.97	PASS			
Highest	1.52	20.97	PASS			

Peak Output Power (dBm)	Limit (dBm)	Result	
6.35	20.97	PASS	
w5/7 2.95	20.97	PASS	
1.48	20.97	PASS	
	(dBm) 6.35 2.95	(dBm) Limit (dBm) 6.35 20.97 2.95 20.97	

Test plots as follows:

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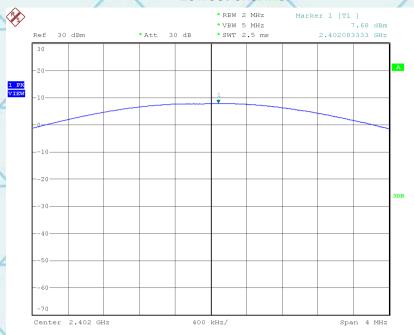
Report No.: WSCT-A2LA-R&E220900006A-BT



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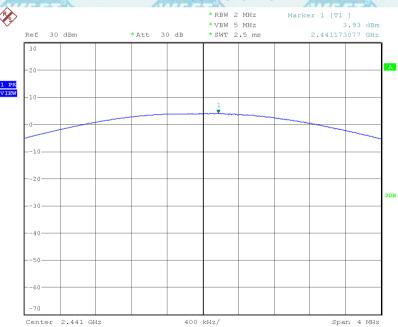
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Date: 8.SEP.2022 14:17:06

Middle channel



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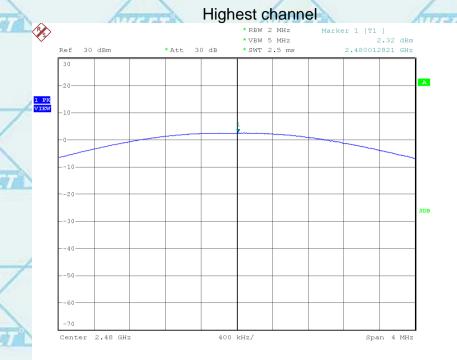




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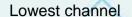






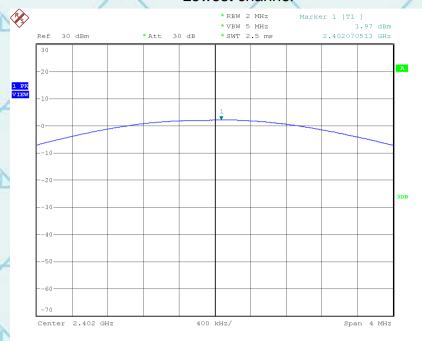
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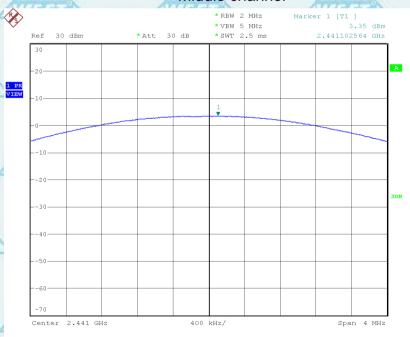
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Middle channel



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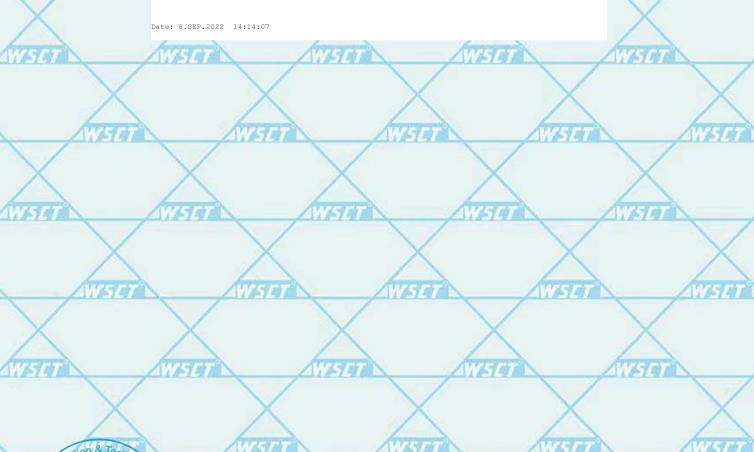
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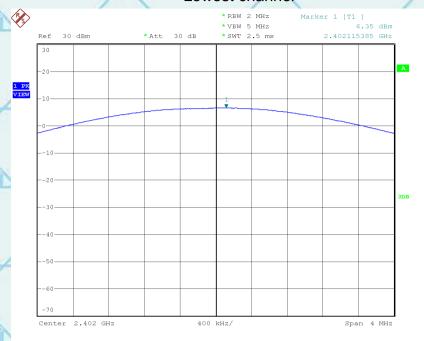
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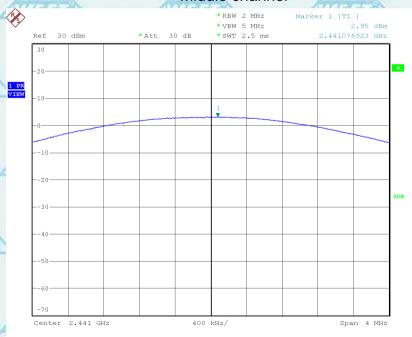
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Middle channel



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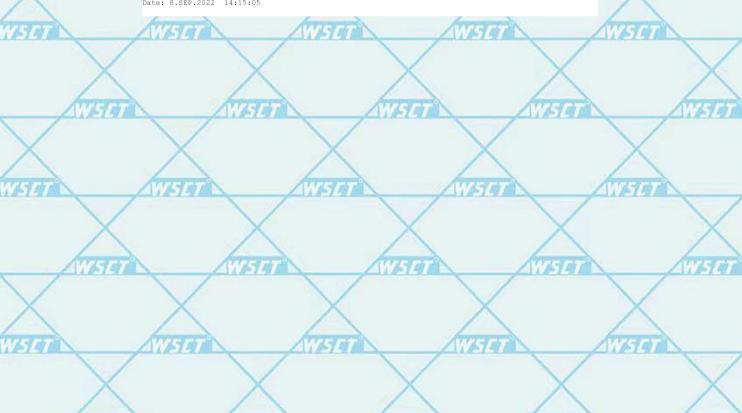
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6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

FCC Part15 C Section 15.247 (a)(1)
ANSI C63.10:2014
N/A
Spectrum Analyzer EUT
Transmitting mode with modulation
 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.
PASS



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6.4.2. Test data

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-	Test channel	20dB Occupy Bandwidth (kHz)				
	rest channel	GFSK	π/4-DQPSK	8DPSK	Conclusion	
	Lowest	855.769	1274.038	1283.654	PASS	
-	Middle	865.385	1278.546	1283.654	PASS	
-	Highest	871.795	1269.231	1288.462	PASS	

Test plots as follows:

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GFSK Modulation

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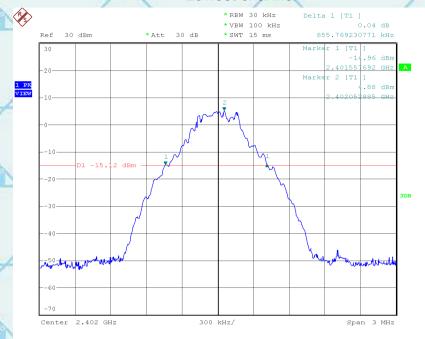




Certificate #5768.01

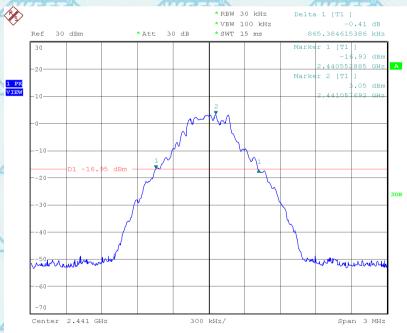
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Lowest channel



Date: 8.SEP.2022 14:23:58

Middle channel



Date: 8.SEP.2022 14:22:40

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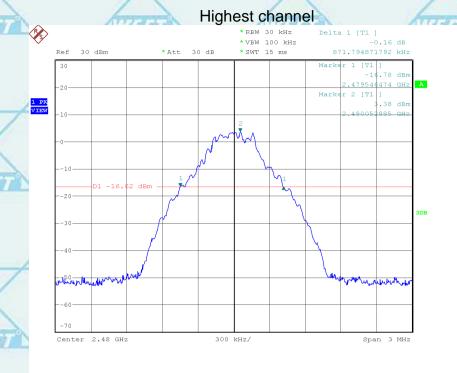




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Report No.: WSCT-A2LA-R&E220900006A-BT Pi/4DQPSK Modulation



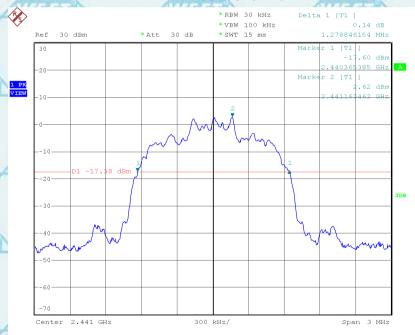
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Middle channel



Date: 8.SEP.2022 14:31:33

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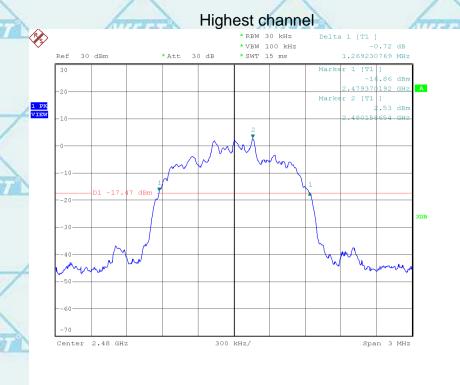




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8DPSK Modulation

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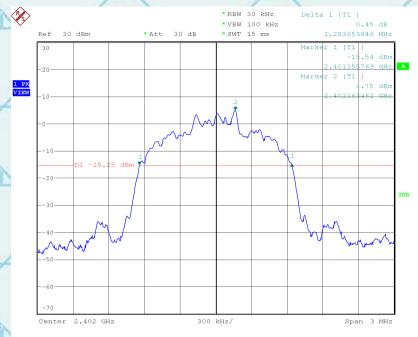




Certificate #5768.01

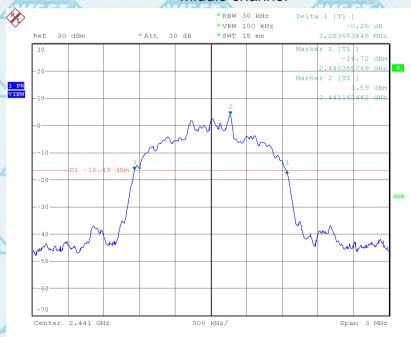
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Middle channel



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6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
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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6.5.2. Test data

		GFSK mo	ode	
Test	channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lo	owest	1000	2/3*20dB BW	PASS
M	liddle	1003	2/3*20dB BW	PASS
Hi	ghest	1003	2/3*20dB BW	PASS

	Pi/4 DQPSK mode					
100	Test channel Carrier Frequencies Separation (kHz)		Limit (kHz)	Result		
	Lowest	1003	2/3*20dB BW	PASS		
	Middle	1006	2/3*20dB BW	PASS		
	Highest	1000	2/3*20dB BW	PASS		

8DPSK mode			
Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
Lowest	1000	2/3*20dB BW	PASS
Middle	1003	2/3*20dB BW	PASS
Highest	1000 W	2/3*20dB BW	PASS

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Lowest channel



Date: 8.SEP.2022 14:48:58

Middle channel



Date: 8.SEP.2022 14:50:27

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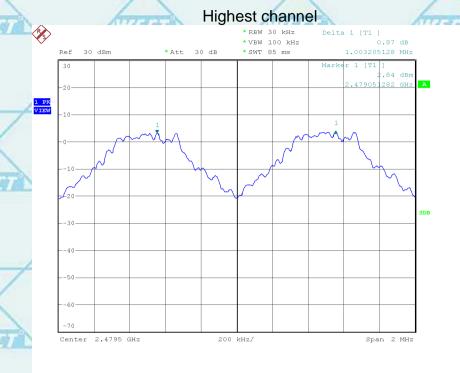




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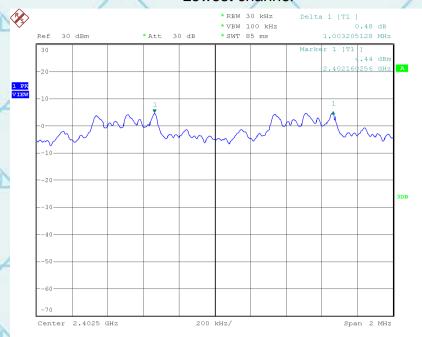
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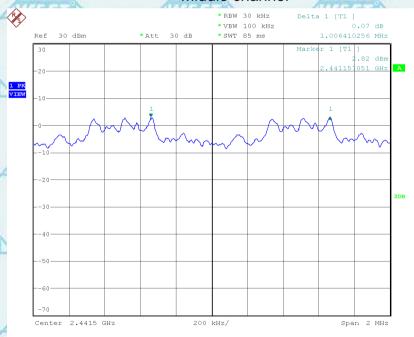
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Middle channel



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Middle channel



Date: 8.SEP.2022 14:46:00

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6.6. Hopping Channel Number

6.6.1. Test Specification

1	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
	Test Method:	ANSI C63.10:2014
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
7	Test Setup:	
ì		Spectrum Analyzer EUT
	Test Mode:	Hopping mode
To To		 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
	Test Procedure:	 EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 7. Record the measurement data in report.
	Test Result:	PASS PASS
	Test Result:	PASS



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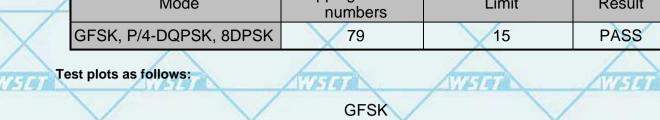
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6.6.2. Test data

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Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS







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6.7. Dwell Time

6.7.1. 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 ////////////////////////////////////
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 PASS
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6.7.2. Test Data

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Mode	Packet	Frequency	Package Transfer Time (ms)	Dwell time (second)	Limit (second)	Result
GFSK	DH1	2402MHz	0.376	0.122	0.4	PASS
GFSK	DH1	2441MHz	0.376	0.122	0.4	PASS
GFSK	DH1	2480MHz	0.376	0.122	0.4	PASS
GFSK	DH3	2402MHz	1.632	0.262	0.4	PASS
GFSK	DH3	2441MHz	1.632	0.262	0.4	PASS
GFSK	DH3	2480MHz	1.632	0.262	0.4	PASS
GFSK	DH5	2402MHz	2.880	0.308	0.4	PASS
GFSK	DH5	2441MHz	2.880	0.305	0.4	PASS
GFSK	DH5	2480MHz	2.880	0.305	0.4	PASS
	GFSK GFSK GFSK GFSK GFSK GFSK	GFSK DH1 GFSK DH1 GFSK DH3 GFSK DH3 GFSK DH3 GFSK DH3 GFSK DH3 GFSK DH5	GFSK DH1 2402MHz GFSK DH1 2441MHz GFSK DH1 2480MHz GFSK DH3 2402MHz GFSK DH3 2441MHz GFSK DH3 2480MHz GFSK DH3 2480MHz GFSK DH5 2402MHz GFSK DH5 2402MHz	Mode Packet Frequency Transfer Time (ms) GFSK DH1 2402MHz 0.376 GFSK DH1 2441MHz 0.376 GFSK DH3 2480MHz 0.376 GFSK DH3 2402MHz 1.632 GFSK DH3 2480MHz 1.632 GFSK DH3 2480MHz 1.632 GFSK DH5 2402MHz 2.880 GFSK DH5 2441MHz 2.880	Mode Packet Frequency Transfer Time (ms) time (second) GFSK DH1 2402MHz 0.376 0.122 GFSK DH1 2441MHz 0.376 0.122 GFSK DH1 2480MHz 0.376 0.122 GFSK DH3 2402MHz 1.632 0.262 GFSK DH3 2480MHz 1.632 0.262 GFSK DH3 2480MHz 1.632 0.262 GFSK DH5 2402MHz 2.880 0.308 GFSK DH5 2441MHz 2.880 0.305	Mode Packet Frequency Transfer Time (ms) time (second) Limit (second) GFSK DH1 2402MHz 0.376 0.122 0.4 GFSK DH1 2441MHz 0.376 0.122 0.4 GFSK DH3 2480MHz 0.376 0.122 0.4 GFSK DH3 2402MHz 1.632 0.262 0.4 GFSK DH3 2480MHz 1.632 0.262 0.4 GFSK DH3 2480MHz 1.632 0.262 0.4 GFSK DH5 2402MHz 2.880 0.308 0.4 GFSK DH5 2441MHz 2.880 0.305 0.4

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 x 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:

WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT WEIGHT

W-5-C-7 One stoup (St

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Marker 1 [T1]





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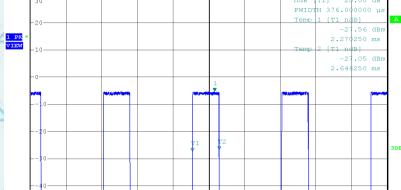
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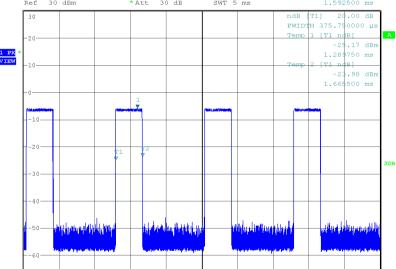


Center 2.402 GHz 500 µs/

Date: 8.SEP.2022 14:54:38







Center 2.441 GHz 500 µs/

Date: 8.SEP.2022 14:55:13

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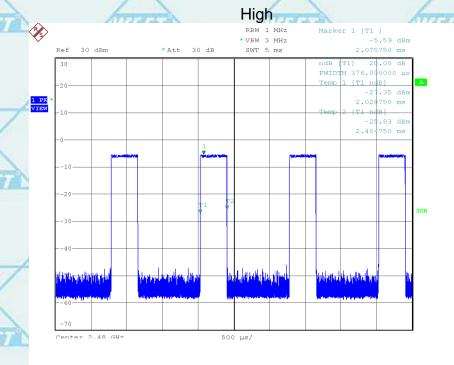




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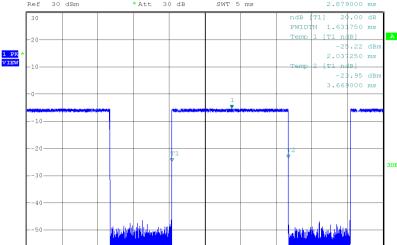
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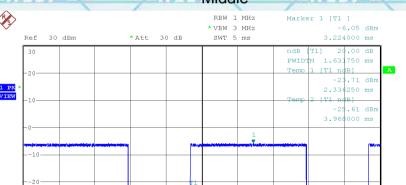




Center 2.402 GHz 500 µs/

Date: 8.SEP.2022 14:57:23

Middle Middle



500 µs/

--40
--50
--60
--60

Date: 8.SEP.2022 14:56:59

Center 2.441 GHz

Date: 8.SEP.2022 14:56:59

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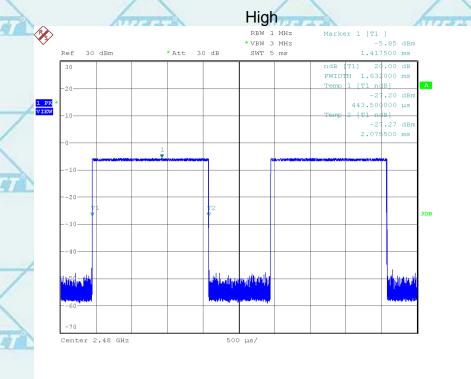




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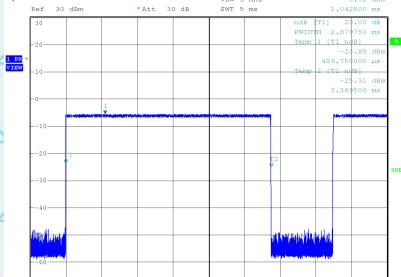
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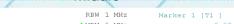


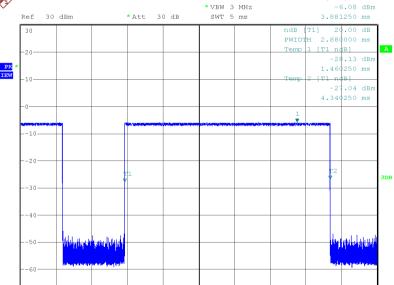


Center 2.402 GHz 500 μs/

Date: 8.SEP.2022 14:58:10

Middle Middle





Center 2.441 GHz 500 μs/

Date: 8.SEP.2022 14:58:38

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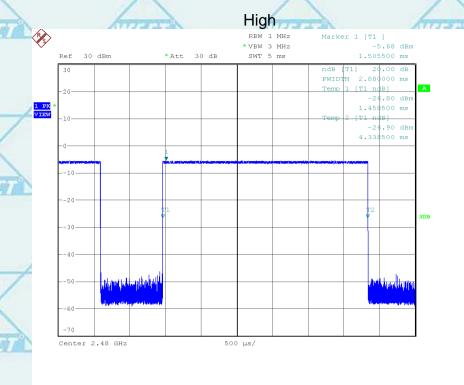




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6.8. Pseudorandom Frequency Hopping Sequence

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

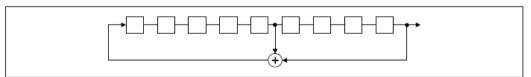
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

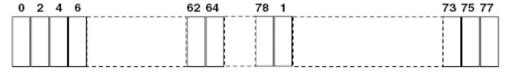
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized 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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6.9. Conducted Band Edge 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 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. Measure and record the results in the test report.
Test Result:	PASS
2/77/2F2/2000 2/77	TOTAL ATTITUDE ATTITU











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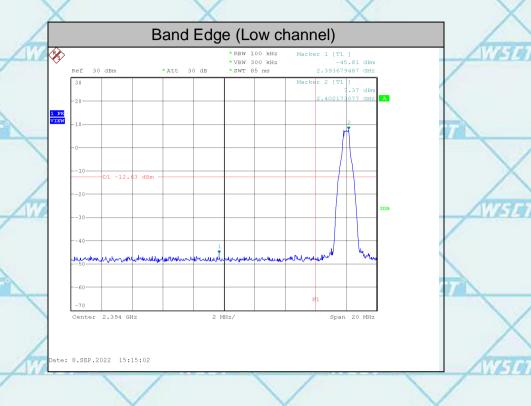
6.9.2. Test Data

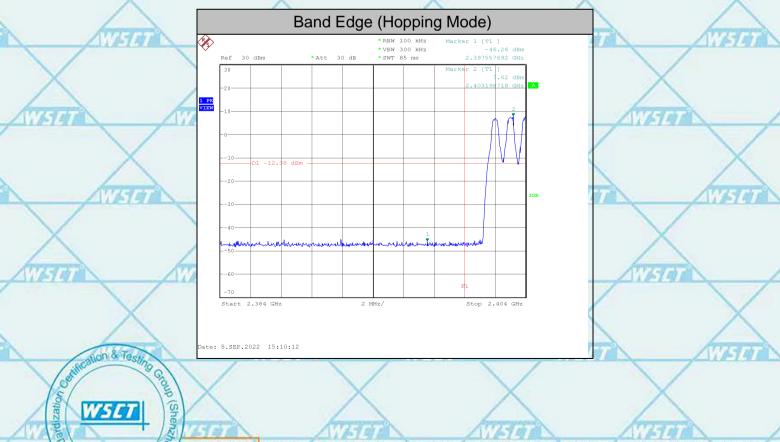
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GFSK Modulation (the worst case)

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6.10. Conducted Spurious Emission Measurement

6.10.1. 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
	 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.
Test Procedure:	 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 PASS



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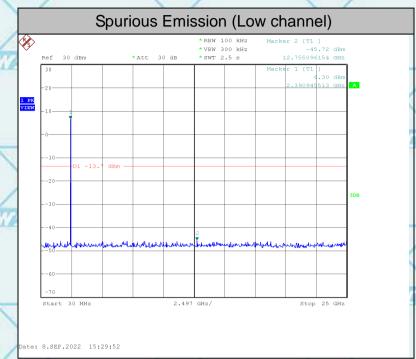
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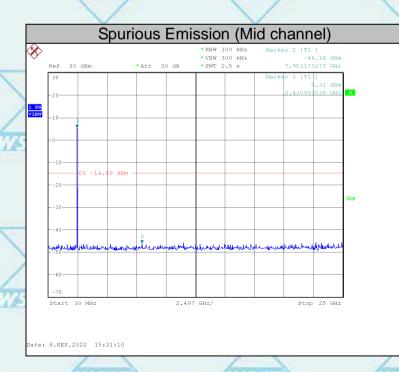
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6.10.2. Test Data

GFSK mode



WSET WSET



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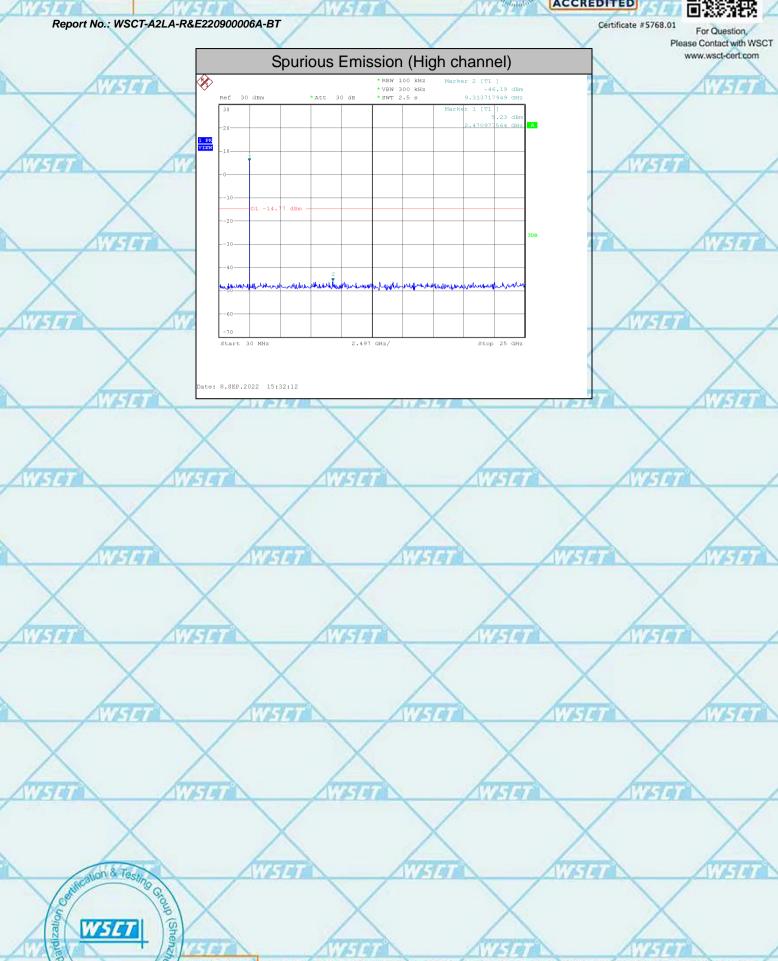
Signal Company

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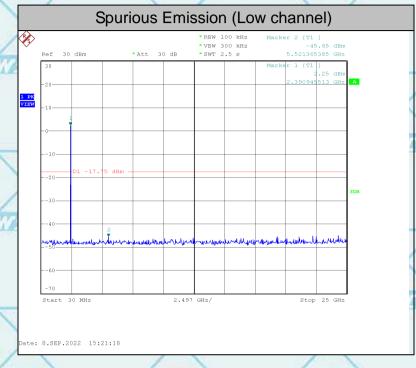
Report No.: WSCT-A2LA-R&E220900006A-BT

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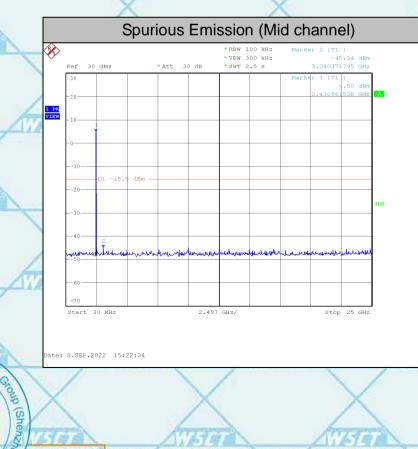
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Pi/4DQPSK mode

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WSET



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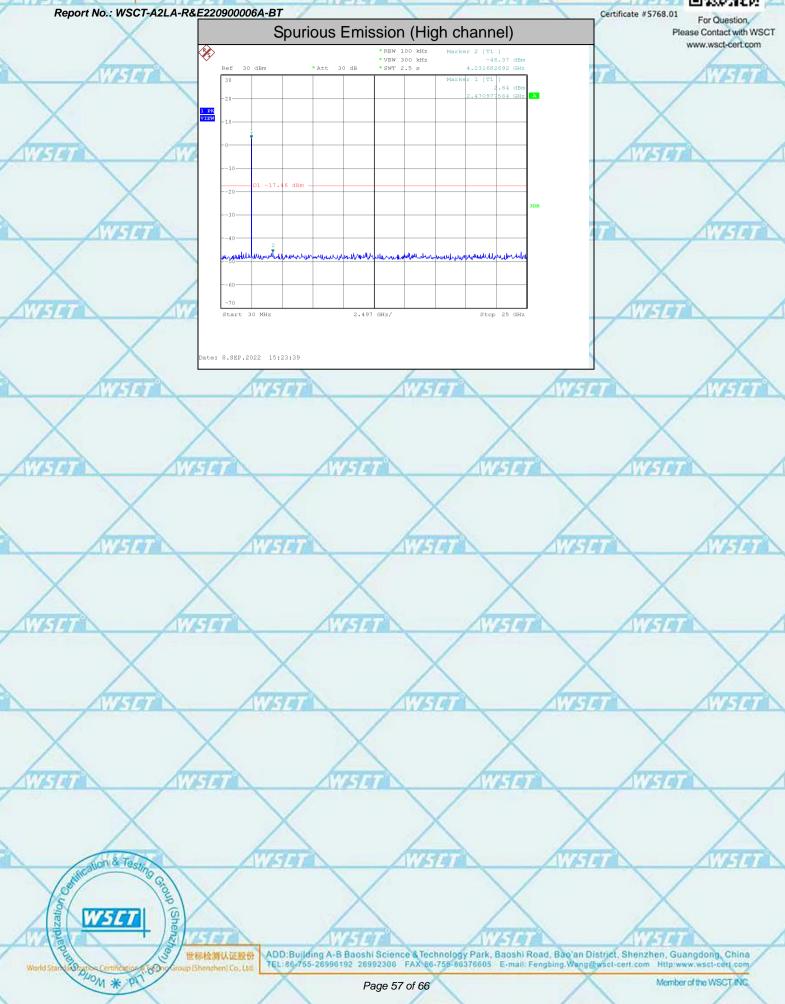








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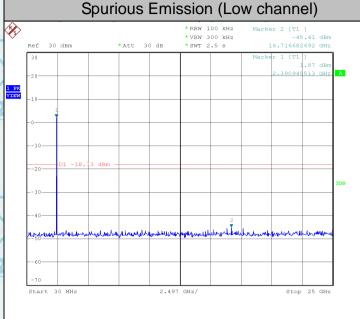




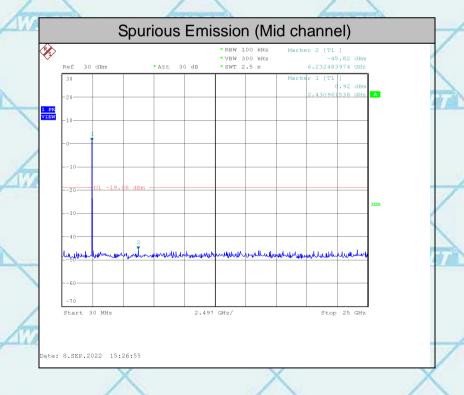












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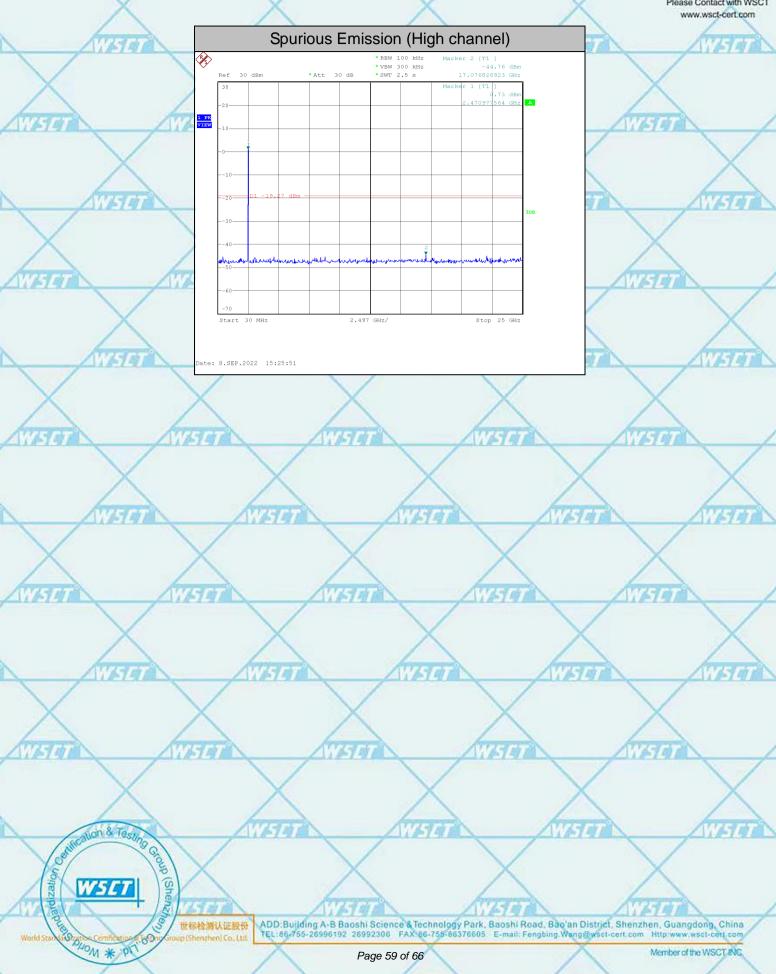


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Average Value

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6.11. Radiated Spurious Emission Measurement

7	6.11.1. Test Specification			1				
	Test Requirement:	FCC Part15 C Section 15.209						
0	Test Method:	ANSI C63.10:2014						
	Frequency Range:							
	Measurement Distance:	3 m			X			
	Antenna Polarization:	Horizontal &	Vertical		AVIS	Ta		
		Frequency	Detector	RBW	VBW	Remark		
	X	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
		150kHz-	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
8	Receiver Setup:	30MHz		117577		ATTENTO		
		30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value		
		Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	A	Above IGHZ	Dook	11/14	1047	Avorago Valuo		

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

1MHz

10Hz

	0.009-0.490	2400/F(KHz)	300
X	0.490-1.705	24000/F(KHz)	30
	1.705-30	30	30
W5147	30-88	100	357
	88-216	150	3
_imit:	216-960	200	3
\wedge	Above 960	500	3

Peak

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Abaya 4CH	500	3	Average
Above 1GHz	5000	3	Peak

For radiated emissions below 30MHz

Computer Pre -Amplifier Test setup: EUT Receiver Ground Plane

Distance = 3m

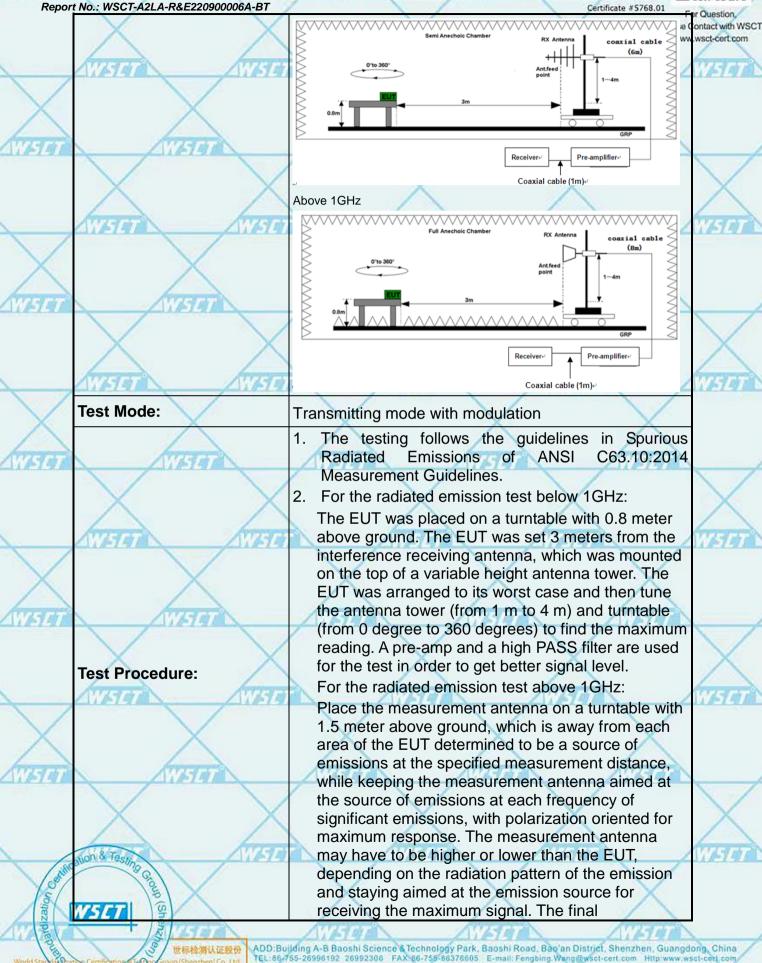
30MHz to 1GHz

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		maximizes the		neasurement	ww.wsct-cert.com
	NIGHT NIGHT			emissions shall be	NET WA
				of from 1 m to 4 m	
		above the groun			
				etting and enable the	€
1112-12-3	1773	EUT transmit co	ontinuously.	17744	
211214	1015	 Use the following 	ng spectrum and	alyzer settings:	/
		(1) Span shall	wide enough to	fully capture the	
	\wedge	•	eing measured;		
	(VATE)	(2) Set RBW=	100 kHz for f < 1	GHz, RBW=1MHz	ATTITUDE OF
	CIFIA LIFT		; VBW≥RBW;	1614	CI PINE
		Sweep = a	auto: Detector fu	inction = peak; Trace	
		= max hole			
ATTESTICAL PROPERTY.	(VISIO)	(3) For averag	ge measuremen	t: use duty cycle	
		correction	factor method p	er	
	\vee	15.35(c). D	uty cycle = On t	ime/100 milliseconds	3
4		On time =N	l1*L1+N2*L2+	+Nn-1*LNn-1+Nn*Lr	1
N	10230	Where N1	is number of ty	pe 1 pulses, L1 is	(VITA)
1		length of ty	ype 1 pulses, et	C.	
				Peak Emission	
		_)*log(Duty cycle		
WST	WATER	Corrected F	Reading: Antenr	a Factor + Cable	/
			_	p Factor = Level	
	Test results:		8	X	- X
	rest results:	PASS			
<u> </u>	WSGT AVSG	AVE	T A	WSET	AWSET
/					
X	X	X	X	X	
AWSET	WSIT	WSFT	AWSTOT	W/5/197	
			/		1/
	X	X		X	X
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6.11.2. Test Data

Please refer to following diagram for individual

Horizontal:





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	144
-		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	36.0007	30.22	2.29	32.51	40.00	-7.49	QP
2	1	95.4270	25.14	-4.77	20.37	43.50	-23.13	QP
3	- 3	189.0743	26.59	-7.18	19.41	43.50	-24.09	QP
4		378.5843	26.70	-1.21	25.49	46.00	-20.51	QP
Z 5	1	776.8778	26.48	3.58	30.06	46.00	-15.94	QP
6	1	1000.000	25.35	7.32	32.67	54.00	-21.33	QP

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Vertical:



No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	36.1272	30.08	2.21	32.29	40.00	-7.71	QP
2		107.8877	26.85	-2.28	24.57	43.50	-18.93	QP
/3		141.8262	24.50	-4.42	20.08	43.50	-23.42	QP
4		300.3672	25.09	-2.23	22.86	46.00	-23.14	QP
745	1	549.0195	26.15	0.94	27.09	46.00	-18.91	QP
6		912.8620	26.07	5.86	31.93	46.00	-14.07	QP

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and three modulation (GFSK, Pi/4 DQPSK, 8DPSK) and the worst case Mode (Lowest channel and GFSK) was submitted only.

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3.Reading level ($dB\mu V$) = 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 ($dB\mu V$)



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Report No.: WSCT-A2LA-R&E220900006A-BT

Certificate #5768.01

Please Contact with WSCT www.wsct-cert.com

Above 1GHz

GFSK

	Eroa	Low channel: 2402MHz								
	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV		
	4804	V	60.08	39.50	74	54	-13.92	-14.50		
	7206	V	58.25	40.71	74	54	-15.75	-13.29		
	4804	Ι	58.75	40.79	74	54	-15.25	-13.21		
	7206	H	59.76	40.76	74	54	-14.24	-13.24		

	ALTERNATION OF THE PARTY OF THE		ALTERNATION OF THE PARTY OF THE	20.7		417	T J - M - L - M - L			
1	Eroa	Middle channel: 2441MHz								
	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV		
	4882	V	58.06	39.82	74	54	-15.94	-14.18		
	7323	V	59.57	39.91	74	54	-14.43	-14.09		
	4882	Τ	59.84	39.11	74	54	-14.16	-14.89		
	7323	Н	59.74	40.74	74	54	-14.26	-13.26		

	· Andrewson Company (*)		* Additional Contractions of the last of t	200	Contract of the last of the la	, ja	Company of the Park			
d	Erog	High channel: 2480MHz								
	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m(dBuV/m)		Over(dB)			
	(IVIITZ)	H/V	PK	AV	PK	AV	PK	AV		
×	4960	V	59.40	41.50	74	54	-14.60	-12.50		
	7440		58.04	39.91	74	54	-15.96	-14.09		
	4960	Ι	59.39	41.00	74	54	-14.61	-13.00		
	7440	H	58.82	39.82	74	54	-15.18	-14.18		

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.
- Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

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Certificate #5768.01

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Report No.: WSCT-A2LA-R&E220900006A-BT Restricted Bands Requirements

Test result for GFSK Mode(the worst case)

IOI OI OIL IVI	ouc(the w	orst case)	and the second section of	200	11122	200
Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
August .		Low Cha	nnel	Konsa	Y	Aug
64.52	-8.76	55.76	74	18.24	Y	PK
53.32	-8.76	44.56	54	9.44	Н	AV
60.04	-8.73	51.31	74	22.69	V	PK
54.14	-8.73	45.41	54	8.59	V/5	AV
62.01	-8.76	53.25	74	20.75	Н	PK
56.54	-8.76	47.78	54	6.22	I	AV
60.56	-8.73	51.83	74	22.17	V	PK
56.90	-8.73	48.17	54	5.83	V	AV
	X	High Cha	nnel		X	
62.39	-8.76	53.63	74	20.37	1	PK
53.86	-8.76	45.10	54	8.90	HIP	AV
61.07	-8.73	52.34	74	21.66	V	PK
55.13	-8.73	46.40	54	7.60	V	AV
	Reading (dBuV/m) 64.52 53.32 60.04 54.14 62.01 56.54 60.56 56.90 62.39 53.86 61.07	Reading (dBuV/m) Correct Factor (dBuV/m) dB/m 64.52 -8.76 53.32 -8.76 60.04 -8.73 54.14 -8.73 62.01 -8.76 60.54 -8.76 60.56 -8.73 56.90 -8.73 62.39 -8.76 53.86 -8.76 61.07 -8.73	Reading (dBuV/m) Correct Factor Emission Level (dBuV/m) dB/m (dBuV/m) Low Cha 64.52 -8.76 55.76 53.32 -8.76 44.56 60.04 -8.73 51.31 54.14 -8.73 45.41 62.01 -8.76 53.25 56.54 -8.76 47.78 60.56 -8.73 51.83 56.90 -8.73 48.17 High Cha 62.39 -8.76 53.63 53.86 -8.76 45.10 61.07 -8.73 52.34	Reading (dBuV/m) Correct Factor Emission Level Limit Level (dBuV/m) (dBuV/m) (dBuV/m) (dBuV/m) 64.52 -8.76 55.76 74 53.32 -8.76 44.56 54 60.04 -8.73 51.31 74 54.14 -8.73 45.41 54 62.01 -8.76 53.25 74 56.54 -8.76 47.78 54 60.56 -8.73 51.83 74 56.90 -8.73 48.17 54 High Channel 62.39 -8.76 53.63 74 53.86 -8.76 45.10 54 61.07 -8.73 52.34 74	Reading (dBuV/m) Correct Factor Emission Level Limit Level Margin Low Channel 64.52 -8.76 55.76 74 18.24 53.32 -8.76 44.56 54 9.44 60.04 -8.73 51.31 74 22.69 54.14 -8.73 45.41 54 8.59 62.01 -8.76 53.25 74 20.75 56.54 -8.76 47.78 54 6.22 60.56 -8.73 51.83 74 22.17 56.90 -8.73 48.17 54 5.83 High Channel 62.39 -8.76 53.63 74 20.37 53.86 -8.76 45.10 54 8.90 61.07 -8.73 52.34 74 21.66	Factor Level (dBuV/m) (dBuV/m) (dB) H/V Low Channel 64.52 -8.76 55.76 74 18.24 H 53.32 -8.76 44.56 54 9.44 H 60.04 -8.73 51.31 74 22.69 V 54.14 -8.73 45.41 54 8.59 V 62.01 -8.76 53.25 74 20.75 H 56.54 -8.76 47.78 54 6.22 H 60.56 -8.73 51.83 74 22.17 V 56.90 -8.73 48.17 54 5.83 V High Channel 62.39 -8.76 53.63 74 20.37 H 53.86 -8.76 45.10 54 8.90 H 61.07 -8.73 52.34 74 21.66 V

Note: Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading

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

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

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

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