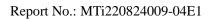


Test Report

Report No.:	MTi220824009-04E1
Date of issue:	2022-10-12
Applicant:	SHENZHEN FLYSHINE TECHNOLOGY CO., LTD
Product:	Wireless Charger Desk Lamp
Model(s):	XS-F11, XS-F10, XS-F9
FCC ID:	2AVJX-F11

Shenzhen Microtest Co., Ltd. http://www.mtitest.com





Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.

2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.

Any objection to this test report shall be submitted to the laboratory within
15 days from the date of receipt of the report.



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Test Result Certification				
Applicant:	SHENZHEN FLYSHINE TECHNOLOGY CO., LTD			
Address:	3/F, Building C6, HengFeng Industrial City, HeZhou, BaoAn, ShenZhen Guangdong, China			
Manufacturer:	SHENZHEN FLYSHINE TECHNOLOGY CO., LTD			
Address:	3/F, Building C6, HengFeng Industrial City, HeZhou, BaoAn, ShenZhen Guangdong, China			
Product description				
Product name:	Wireless Charger Desk Lamp			
Trademark:	N/A			
Model name:	XS-F11			
Serial Model:	XS-F10, XS-F9			
Standards:	FCC 47 CFR Part 15 Subpart C			
Test method:	ANSI C63.10-2013			
Date of Test				
Date of test:	2022-09-06 ~ 2022-09-30			
Test result:	Pass			

Test Engineer :

Letter. Jan.

(Letter Lan)

Reviewed By: :

loor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Wireless Charger Desk Lamp
Model name:	XS-F11
Series Model:	XS-F10, XS-F9
Model difference:	All the models are the same circuit and module, except the model name and different models are from different distributors.
Electrical rating:	Input: DC 12V/2A Output: DC 9V/1.1A Wireless Output: 5W/7.5W/10W
Hardware version:	V1.0
Software version:	V1.3
Accessories:	Adapter: Model: KDP-A3120200U Input: 100-240V~ 50/60Hz 0.8A Output: 12V-2000mA
EUT serial number:	MTi220824009-04-S0001
RF specification:	
Bluetooth version:	V5.1
Operation frequency:	2402 MHz ~ 2480 MHz
Modulation type:	GFSK, π/4-DQPSK
Antenna designation:	PCB antenna, antenna Gain: -0.58 dBi
Max. peak conducted output power:	0.25 dBm

1.2 Description of test modes

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472



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Report No.: MTi220824009-04E1

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

1.2.2 Test channels

Channel	Frequency
Lowest (CH0)	2402MHz
Middle (CH39)	2441MHz
Highest (CH78)	2480MHz

Note: The test software has been used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

1.2.3 Description of support units

Support equipment list					
Description	Model	Serial No.	Manufacturer		
Load	YBZ1.1	/	YBZ		
Mobile phone	Mate 30	/	HUAWEI		

1.3 Measurement uncertainty

Parameter	Measurement uncertainty
AC power line conducted emission (9 kHz~30 MHz)	±2.5 dB
Occupied Bandwidth	±3 %
Conducted RF output power	±0.16 dB
Conducted spurious emissions	±0.21 dB
Radiated emission (9 kHz ~ 30 MHz)	±4.0 dB
Radiated emission (30 MHz~1 GHz)	±4.2 dB
Radiated emission (above 1 GHz)	±4.3 dB

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



2 Summary of Test Result

No.	FCC reference	Description of test	Result
1	§ 15.203	Antenna requirement	Pass
2	§ 15.207	AC power line conducted emissions	Pass
3	15.247(a)(1)	20dB occupied bandwidth	Pass
4	15.247(b)(1)	Conducted peak output power	Pass
5	15.247(a)(1)	Carrier Frequencies Separation	Pass
6	15.247(a)(1)	Average time of occupancy (Dwell time)	Pass
7	15.247(a)(1)	Number of hopping channels	Pass
8	15.247(d)	Conducted emission at the band edge	Pass
9	15.247(d)	Conducted spurious emissions	Pass
10	15.247(d)	Radiated spurious emissions	Pass

Note: N/A means not applicable.



3 Test Facilities and Accreditations

3.1 Test laboratory

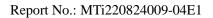
Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



4 Equipment List

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E002	EMI Test Receiver	R&S	ESCI3	101368	2022/05/05	2023/05/04
MTi-E023	Artificial power network	Schwarzbeck	NSLK8127	NSLK8127# 841	2022/05/05	2023/05/04
MTi-E025	Artificial power network	Schwarzbeck	NSLK8127	8127183	2022/05/05	2023/05/04
MTI-E043	EMI test receiver	R&S	ESCI7	101166	2022/05/05	2023/05/04
MTI-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00044	2021/05/30	2023/05/29
MTI-E044	Broadband antenna	Schwarzbeck	VULB9163	9163-1338	2021/05/30	2023/05/29
MTI-E045	Horn antenna	Schwarzbeck	BBHA9120D	9120D-2278	2021/05/30	2023/05/29
MTI-E047	Pre-amplifier	Hewlett-Packard	8447F	3113A06184	2022/05/05	2023/05/04
MTI-E048	Pre-amplifier	Agilent	8449B	3008A01120	2022/05/05	2023/05/04
MTi-E120	Broadband antenna	Schwarzbeck	VULB9163	9163-1419	2021/05/30	2023/05/29
MTi-E121	Pre-amplifier	Hewlett-Packard	8447D	2944A09365	2022/04/15	2023/04/14
MTi-E123	Pre-amplifier	Agilent	8449B	3008A04723	2022/05/05	2023/05/04
MTi-E135	Horn antenna	Schwarzbeck	BBHA 9170	00987	2021/05/30	2023/05/29
MTi-E136	Pre-amplifier	Space-Dtronics	EWLAN1840G -G45	210405001	2022/05/05	2023/05/04
MTi-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2022/05/05	2023/05/04
MTi-E067	RF Control Unit	Tonscend	JS0806-1	19D8060152	2022/05/05	2023/05/04
MTi-E068	RF Control Unit	Tonscend	JS0806-2	19D8060153	2022/05/05	2023/05/04
MTi-E069	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2022/05/05	2023/05/04
MTI-E010S	EMI Measurement Software	Farad	EZ-EMC Ver. EMEC-3A1	/	/	/
MTI-E014S		Tonscend	TS®JS1120 V2.6.88.0330	/	/	/

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5 Test Result

5.1 Antenna requirement

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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Description of the antenna of EUT

The antenna of EUT is PCB antenna (Antenna Gain: -0.58 dBi). which is no consideration of replacement.



5.2 AC power line conducted emissions

5.2.1 Limits

Frequency (MHz)	Detector type / Bandwidth	Limit-Quasi-peak dBµV	Limit-Average dBµV
0.15 -0.5		66 to 56	56 to 46
0.5 -5	Average / 9 kHz	56	46
5 -30		60	50

Note 1: the limit decreases with the logarithm of the frequency in the range of 0.15 MHz to 0.5 MHz.

5.2.2 Test Procedures

a) The test setup is refer to the standard ANSI C63.10-2013.

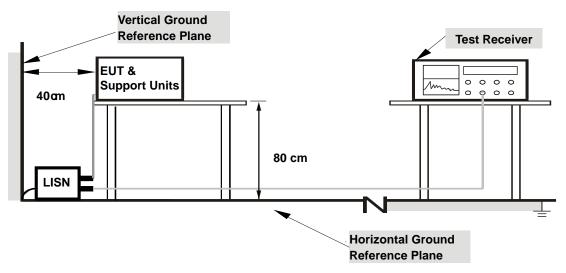
b) The EUT is connected to the main power through a line impedance stabilization network (LISN). All support equipment is powered from additional LISN(s).

c) Emissions were measured on each current carrying line of the EUT using an EMI test receiver connected to the LISN powering the EUT.

d) The test receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes described in Item 1.2.

e) The test data of the worst-case condition(s) was recorded.

5.2.3 Test setup



For the actual test configuration, please refer to the related item – Photographs of the test setup.

5.2.4 Test Result

Notes:

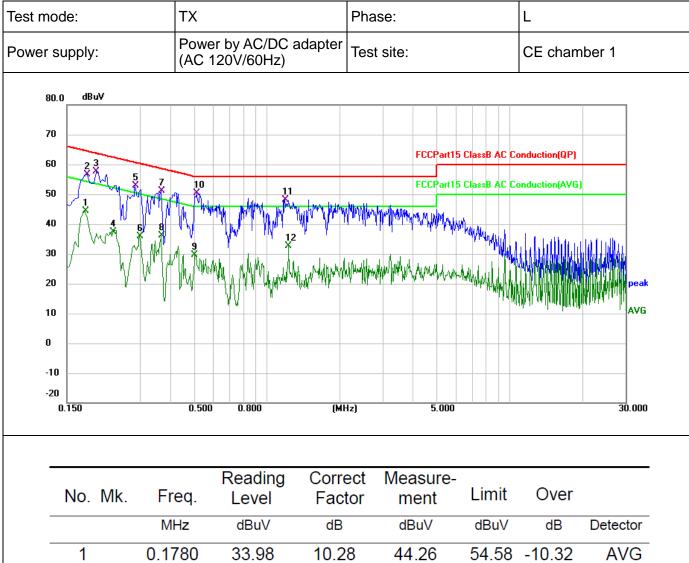
All modes of operation of the EUT were investigated, and only the worst-case results are reported.

Calculation formula:

Measurement (dB μ V) = Reading Level (dB μ V) + Correct Factor (dB) Over (dB) = Measurement (dB μ V) – Limit (dB μ V)



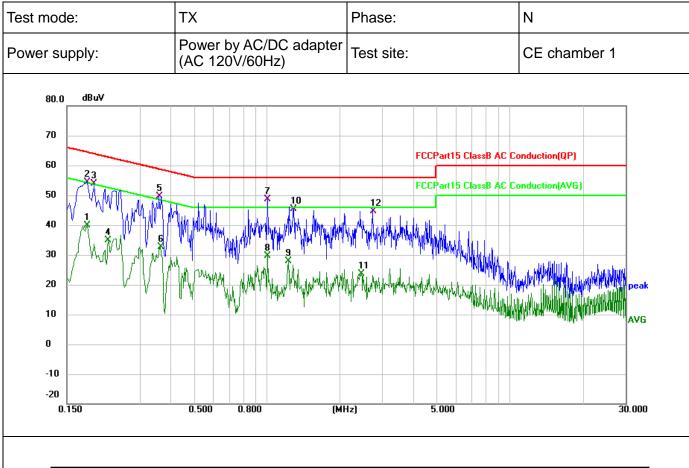
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	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1780	33.98	10.28	44.26	54.58	-10.32	AVG
2	0.1819	46.08	10.64	56.72	64.40	-7.68	QP
3	0.1980	47.04	10.68	57.72	63.69	-5.97	QP
4	0.2328	26.71	10.73	37.44	52.35	-14.91	AVG
5	0.2860	42.08	10.85	52.93	60.64	-7.71	QP
6	0.2980	25.10	10.87	35.97	50.30	-14.33	AVG
7	0.3660	40.06	11.03	51.09	58.59	-7.50	QP
8	0.3660	25.07	11.03	36.10	48.59	-12.49	AVG
9	0.5060	18.22	11.34	29.56	46.00	-16.44	AVG
10 *	0.5140	39.02	11.34	50.36	56.00	-5.64	QP
11	1.1860	35.54	12.71	48.25	56.00	-7.75	QP
12	1.2300	19.92	12.77	32.69	46.00	-13.31	AVG



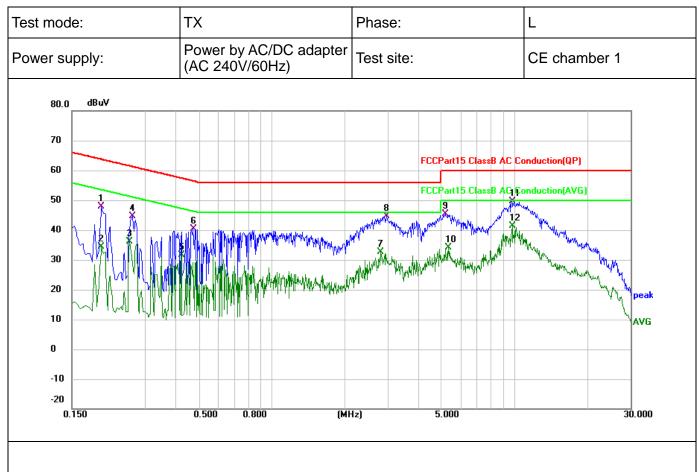
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detecto
1		0.1815	29.38	10.59	39.97	54.42	-14.45	AVG
2		0.1819	43.73	10.59	54.32	64.40	-10.08	QP
3		0.1940	43.20	10.59	53.79	63.86	-10.07	QP
4		0.2220	24.13	10.65	34.78	52.74	-17.96	AVG
5		0.3580	38.55	10.96	49.51	58.77	-9.26	QP
6		0.3620	21.59	10.96	32.55	48.68	-16.13	AVG
7	*	1.0060	36.22	12.35	48.57	56.00	-7.43	QP
8		1.0060	17.24	12.35	29.59	46.00	-16.41	AVG
9		1.2300	15.08	12.82	27.90	46.00	-18.10	AVG
10		1.2900	32.35	12.95	45.30	56.00	-10.70	QP
11		2.4500	13.31	10.39	23.70	46.00	-22.30	AVC
12		2.7260	34.22	10.34	44.56	56.00	-11.44	QP



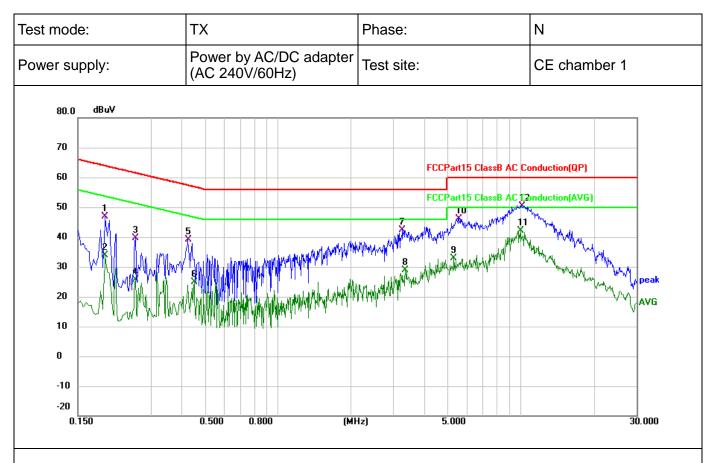
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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1980	36.83	10.99	47.82	63.69	-15.87	QP
2	0.1980	23.36	10.99	34.35	53.69	-19.34	AVC
3	0.2580	25.05	11.10	36.15	51.50	-15.35	AVC
4	0.2660	33.51	11.12	44.63	61.24	-16.61	QP
5	0.4220	20.12	11.48	31.60	47.41	-15.81	AVC
6	0.4740	28.82	11.62	40.44	56.44	-16.00	QP
7	2.8179	21.83	10.68	32.51	46.00	-13.49	AVC
8	2.9620	33.85	10.67	44.52	56.00	-11.48	QP
9	5.1860	34.70	10.71	45.41	60.00	-14.59	QP
10	5.3500	23.37	10.72	34.09	50.00	-15.91	AVC
11	9.7260	38.81	10.72	49.53	60.00	-10.47	QP
12 *	9.7980	30.69	10.72	41.41	50.00	-8.59	AVC



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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1940	35.92	10.90	46.82	63.86	-17.04	QP
2	0.1940	22.92	10.90	33.82	53.86	-20.04	AVG
3	0.2580	28.64	11.00	39.64	61.50	-21.86	QP
4	0.2580	14.73	11.00	25.73	51.50	-25.77	AVG
5	0.4260	27.66	11.36	39.02	57.33	-18.31	QP
6	0.4500	13.48	11.40	24.88	46.88	-22.00	AVG
7	3.2659	31.61	10.68	42.29	56.00	-13.71	QP
8	3.3580	18.09	10.68	28.77	46.00	-17.23	AVG
9	5.3100	22.18	10.66	32.84	50.00	-17.16	AVG
10	5.5580	35.44	10.66	46.10	60.00	-13.90	QP
11 *	10.0020	31.52	10.68	42.20	50.00	-7.80	AVG
12	10.0740	39.82	10.68	50.50	60.00	-9.50	QP



5.3 20dB occupied bandwidth

5.3.1 Limits

None, for reporting purposes only.

5.3.2 Test setup



5.3.3 Test procedures

- a) Test method: ANSI C63.10-2013 Section 6.9.2.
- b) The transmitter output of EUT is connected to the spectrum analyzer.
- c) Spectrum analyzer setting: RBW=30 kHz, VBW=100 kHz, detector= Peak

5.3.4 Test results

Mode	Test channel	Frequency (MHz)	20dB Bandwidth (MHz)
	CH0	2402	0.9571
GFSK	CH39	2441	0.9553
	CH78	2480	0.9551
	CH0	2402	1.309
π/4-DQPSK	CH39	2441	1.282
	CH78	2480	1.324



GFSK mode - 20dB occupied bandwidth



CH39



CH78





Micr©test 微测检测



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CH39



CH78





5.4 Conducted peak output power

5.4.1 Limits

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.

5.4.2 Test setup



5.4.3 Test procedure

a) Test method: ANSI C63.10-2013 Section 7.8.5.

b) The EUT was set to continuously transmitting in the max power during the test.

c) The transmitter output of EUT is connected to the spectrum analyzer.

d) Spectrum analyzer setting: RBW > 20dB occupied bandwidth, VBW ≥ RBW, detector= Peak

5.4.4 Test results

Mode	Test channel	Frequency (MHz)	Conducted peak output power (dBm)	Limit (dBm)
	CH0	2402	-1.21	≤ 20.97
GFSK	CH39	2441	-0.61	≤ 20.97
	CH78	2480	-0.61	≤ 20.97
	CH0	2402	-0.32	≤ 20.97
π/4-DQPSK	CH39	2441	0.25	≤ 20.97
	CH78	2480	0.2	≤ 20.97

GFSK mode - peak conducted output power



CH39



CH78



CH0



$\pi/4\text{-}DQPSK$ mode - peak conducted output power



CH39

Frequency	1Sep 07, 2022 E 1 2 3 4 5 6 E M ///////////////////////////////////	TRAC		CE OFF #Avg Typ Avg Hold:		Hz PNO: Fast ↔ IFGain:Low		⊮⊧ 50 req 2.4410	enter F
Auto Tur	00 GHz 45 dBm	2.440 6	Mkr1		WALLEN. 4	IFGain:Low	9.17 dB	Ref Offset 9 Ref 30.00	0 dB/div
Center Fre 2.441000000 GF									og
Start Fre 2.437000000 Gi					∮ ¹				10.0
Stop Fre 2.445000000 GF								*************	10.0 Arme
CF Ste 800.000 ki <u>Auto</u> Mi									8.0
Freq Offs 0 I									10.0
									50.0
	.000 MHz 1001 pts)	Span 8 .000 ms (Sweep 1		8.0 MHz	#VBW	Z	I41000 GH 3.0 MHz	enter 2. Res BW

CH78



CH0



5.5 Carrier frequency separation

5.5.1 Limits

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

5.5.2 Test setup

	Spectrum
EUTE	AnalyzerS

5.5.3 Test procedure

- a) Test method: ANSI C63.10-2013 Section 7.8.2.
- b) The EUT was set to hopping mode during the test.
- c) The transmitter output of EUT is connected to the spectrum analyzer.
- d) Spectrum Setting: RBW = 30 kHz, VBW = 100 kHz, detector= Peak.

5.5.4 Test results

Mode	Test channel	Test Result (MHz)	Limit (MHz)	Result
GFSK	Hop-mode	1.000	>=0.638	Pass
π/4-DQPSK	Hop-mode	1.000	>=0.883	Pass



Carrier frequency separation



π/4-DQPSK



Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, ChinaTel: (86-755)88850135Fax: (86-755) 88850136Web: www.mtitest.comE-mail: mti@51mti.com



5.6 Average time of occupancy

5.6.1 Limits

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.

5.6.2 Test setup



5.6.3 Test procedure

- a) Test method: ANSI C63.10-2013 Section 7.8.4
- b) The EUT was set to hopping mode during the test.
- c) The tranistter output of EUT is connneted to the specturm analyzer.

d) Spectrum analyzer setting: RBW = 1MHz, VBW = 3MHz, Span = 0Hz, Detector = Peak, weep time: As necessary to capture the entire dwell time per hopping channel.

e) Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

f) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

Mode	Data Packet	Frequency (MHz)	Pulse width (ms)	Number of pulses in 3.16 s	Average time of occupancy (s)	Limit (s)	Result
	DH1	2441	0.37	32	0.120	<=0.4	Pass
GFSK	DH3	2441	1.63	15	0.245	<=0.4	Pass
	DH5	2441	2.88	10	0.288	<=0.4	Pass
	2DH1	2441	0.38	33	0.127	<=0.4	Pass
π/4-DQPS K	2DH3	2441	1.64	14	0.229	<=0.4	Pass
	2DH5	2441	2.88	9	0.260	<=0.4	Pass

5.6.4 Test results

Notes:

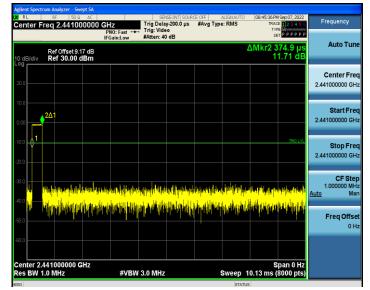
1. Period time = 0.4 (s) * 79 = 31.6(s)

2. Average time of occupancy = Pulse width * Number of pulses in 3.16s * 10

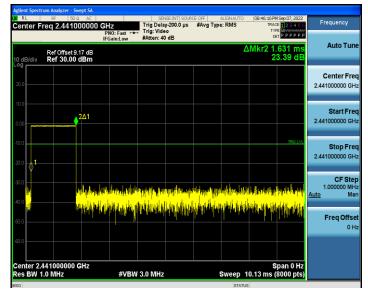


GFSK mode - Average time of occupancy

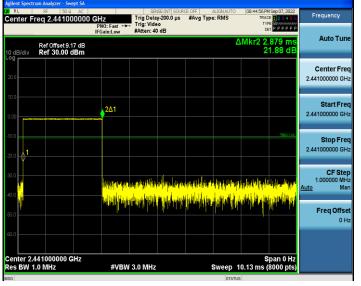
Pulse width – DH1



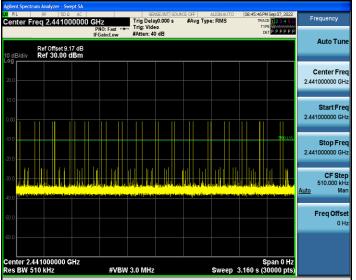
Pulse width – DH3



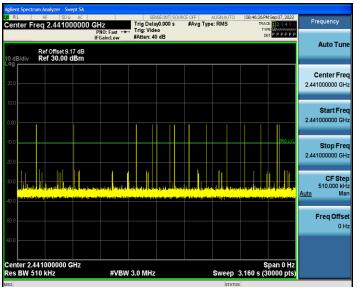
Pulse width – DH5



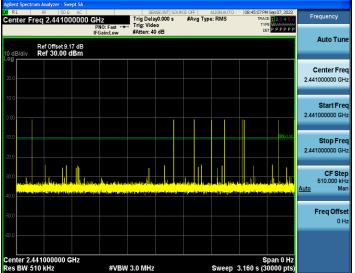
Number of pulses in 3.16 s – DH1



Number of pulses in 3.16 s – DH3



Number of pulses in 3.16 s – DH5

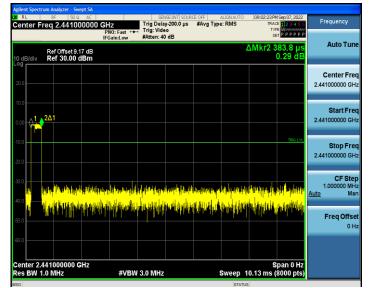


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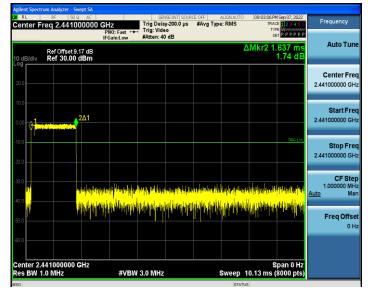


$\pi/4\text{-}D\text{QPSK}$ - Average time of occupancy

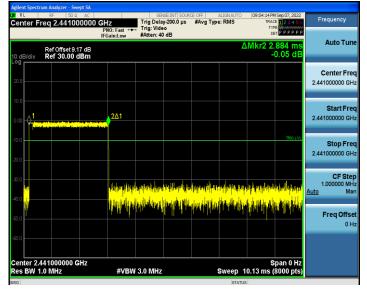
Pulse width – 2DH1



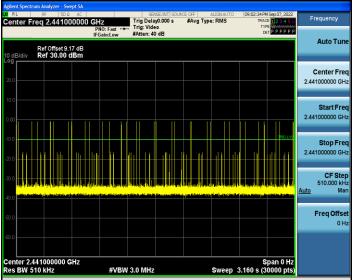
Pulse width – 2DH3



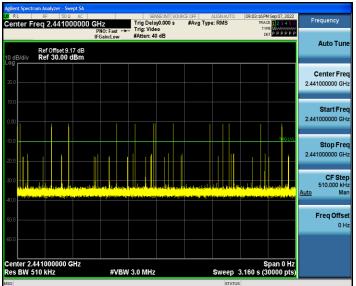
Pulse width - 2DH5



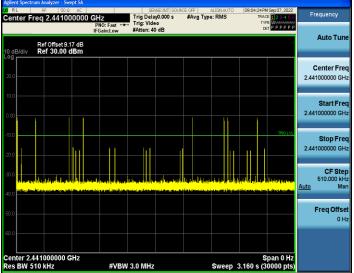
Number of pulses in 3.16 s - 2DH1



Number of pulses in 3.16 s – 2DH3



Number of pulses in 3.16 s – 2DH5



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5.7 Number of hopping channels

5.7.1 Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

5.7.2 Test setup

	Spectrum	
EUT	Analyzer	

5.7.3 Test procedure

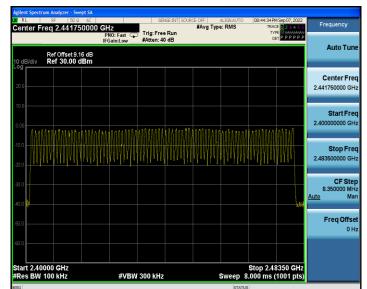
- a) Test method: ANSI C63.10-2013 Section 7.8.3
- b) The EUT was set to hopping mode during the test.
- c) The tranistter output of EUT is connneted to the specturm analyzer.
- d) Spectrum analyzer setting: RBW = 100 kHz, VBW = 300 kHz, Detector = Peak.

5.7.4 Test results

Mode	Quantity of Hopping Channel	Limit	Results
GFSK	79	≥15	Pass
π/4-DQPSK	79	≥15	Pass



Number of hopping channels



 $\pi/4$ -DQPSK

Frequency	Sep 07, 2022	TRAC	ALIGNAUTO E: RMS	#Avg Typ	SE:INT SOUR		Hz NO: Fast	ac 50000 G	2.44175		r R Cen
Auto Tur	<u> </u>	DE				#Atten: 40	Gain:Low	16 dB	ef Offset 9.1 ef 30.00 d		
Center Fre 2.441750000 GF											.og 20.0
Start Fre 2.400000000 GH		Alista	د الله م	.ulit.	W.C.MA	h	al a	1		AM.	10.0 0.00
Stop Fre 2.483500000 GF		AAAAAAAAA	MAAMMAA)	an na na hri	and have a h	49997777	HAT YMYM	iywwn	YAAVAY YAA	 uil Add	10.0 20.0
CF Ste 8.350000 Mi <u>Auto</u> Ma											30.0 40.0
Freq Offs 0 ⊦											50.0
											-60.0
	350 GHz (001 pts)	Stop 2.48 .000 ms (*	Sweep 8			300 kHz	#VBW			t 2.4000 s BW 10	

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GFSK

5.8 Conducted emissions at the band edge

5.8.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.8.2 Test setup



5.8.3 Test procedure

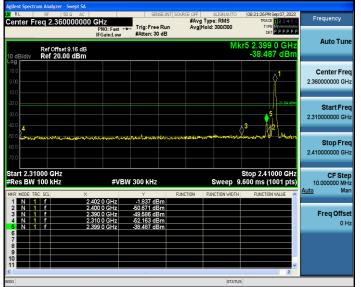
- a) Test method: ANSI C63.10-2013 Section 6.10.4
- b) The EUT was set to non-hopping mode & hopping mode during the test.
- c) The transmitter output of EUT is connected to the spectrum analyzer.
- d) Spectrum analyzer setting: RBW = 100 kHz, VBW = 300 kHz, Detector = Peak.

5.8.4 Test results



GFSK mode - conducted emissions at the band edge

Low band-edge (no-hopping mode mode)



Low band-edge (hopping mode)

RL	RF 50 :			SB	NSE:INT SO		ALIGN AUTO		M Sep 07, 2022	Frequency
enter Fre	eq 2.3525	00000	PNO: Fast	Trig: Fre			ype: RMS ld: 300/300	T	ACE 123456 YPE MUNICIPALITY DET P P P P P P	requerey
	Ref Offset 9	1 dB	IFGain:Low	#Atten: 3	0 dB		Mkr5	2.300	630 GHz	Auto Tur
dB/div g	Ref 20.00				1			-48.6	22 dBm	
1.0									1	Center Fre
									al	2.352500000 GH
1.0										
									-21.92 484	Start Fre
									Q ²	2.30000000 GH
	4	A day before the	utile a Ma Bard	. House and last	ANN TON YOUR	land at the	a californi di co Ma	3	M	
	te i generade an									Oten En
1.0										
.0	000 GHz							Stop 2.4	0500 GHz	2.405000000 Gi
art 2.300 Res BW 1			#VE	3W 300 kHz			Sweep 1		0500 GHz (1001 pts)	2.405000000 GI CF Ste 10.500000 Mi
art 2.300	100 kHz	X 2 403		Y	FU	NCTION	Sweep 1	0.07 ms		2.405000000 GI CF Ste 10.500000 Mi
art 2.300 Res BW 1 R MODE TRO N 1 2 N 1	100 kHz	2.403	950 GHz 000 GHz	Y -1.933 di -40.913 di	FU Bm Bm	NCTION		0.07 ms	(1001 pts)	2.405000000 Gi CF Ste 10.500000 Mi <u>Auto</u> Mi
art 2.300 Res BW 1 R MODE TRO N 1 N 1 N 1 N 1	100 kHz	2.403 2.400 2.390 2.310	950 GHz 000 GHz 000 GHz 000 GHz	-1.933 df -40.913 df -51.953 df -53.035 df	FU Bm Bm Bm Bm	NCTION		0.07 ms	(1001 pts)	2.40500000 Gi CF Ste 10.500000 Mi <u>Auto</u> Mi Freq Offs
art 2.300 Res BW 1 R MODE TRO N 1 2 N 1 4 N 1 4 N 1	100 kHz	2.403 2.400 2.390 2.310	950 GHz 000 GHz 000 GHz	-1.933 di -40.913 di -51.953 di	FU Bm Bm Bm Bm	NCTION		0.07 ms	(1001 pts)	2.40500000 GF CF Ste 10.500000 MF <u>Auto</u> Ma
art 2.300 Res BW 1 R MODE TRO N 1 N 1 S N 1 S N 1 S N 1 S N 1	100 kHz	2.403 2.400 2.390 2.310	950 GHz 000 GHz 000 GHz 000 GHz	-1.933 df -40.913 df -51.953 df -53.035 df	FU Bm Bm Bm Bm	NCTION		0.07 ms	(1001 pts)	Stop Fre 2.405000000 GH CF Ste 10.500000 MH Auto Ma Freq Offs: 0 H
art 2.300 Res BW 1 R MODE TRC N 1 2 N 1 3 N 1 4 N 1 5 N 1 5 N 1 5 N 1 5 N 1 5 N 1 6 N 1 7	100 kHz	2.403 2.400 2.390 2.310	950 GHz 000 GHz 000 GHz 000 GHz	-1.933 df -40.913 df -51.953 df -53.035 df	FU Bm Bm Bm Bm	NCTION I		0.07 ms	(1001 pts)	2.40500000 GF CF Ste 10.500000 MF <u>Auto</u> Ma
art 2.300 Res BW 1 R MODE TRO N 1 2 N 1 3 N 1 4 N 1 5 N 1 5 N 1	100 kHz	2.403 2.400 2.390 2.310	950 GHz 000 GHz 000 GHz 000 GHz	-1.933 df -40.913 df -51.953 df -53.035 df	FU Bm Bm Bm Bm	NCTION		0.07 ms	(1001 pts)	2.40500000 GH CF Ste 10.500000 MH <u>Auto</u> Ma

High band-edge (non-hopping mode)



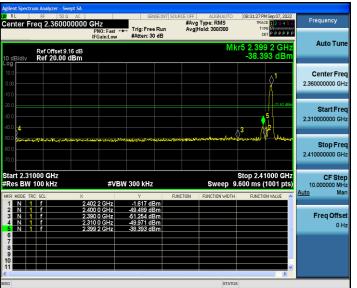
High band-edge (hopping mode)

Agilent Spectrum Analyzer - Swept SA						
Center Freq 2.510000000	GHz	SENSE:INT	#Avg Typ		08:48:33 PM Sep 07, 202 TRACE 2 3 4 5 TYPE M	Frequency
Ref Offset 9.17 dB 10 dB/div Ref 20.00 dBm	PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold	i: 300/300 Mkr	4 2.532 48 GH: -48.631 dBn	Auto Tune
10.0 0.00 -10.0 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA						Center Freq 2.510000000 GHz
-20.0 4147 (199) -30.0				¢4	-21.94 dB	Start Freq 2.470000000 GHz
-50.0 -60.0 -70.0		, Ale Angle (Series and Angle (S		dje rp enst- _e ofdfest	yako yanatayo na katayo na kata	Stop Freq 2.550000000 GHz
Start 2.47000 GHz #Res BW 100 kHz MKR MODE TRC SCL X	#VBW 3	300 kHz Y -1.840 dBm			Stop 2.55000 GH 667 ms (1001 pts FUNCTION VALUE	8.000000 MHz
2 N 1 f 2.48 3 N 1 f 2.50 4 N 1 f 2.53 5 6	3 50 GHz -	51.637 dBm 51.716 dBm 48.631 dBm				Freq Offset 0 Hz
7 8 9 10 11						
MSG				STATUS		

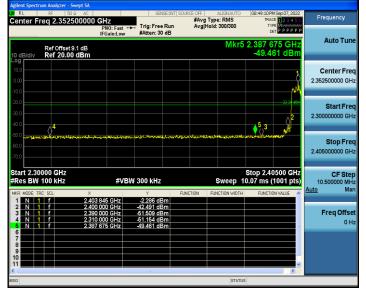


π /4-DQPSK mode - conducted emissions at the band edge

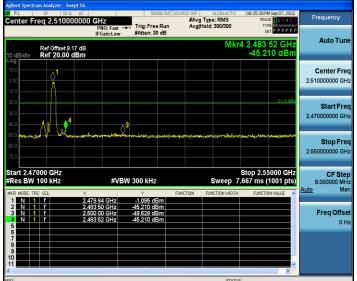
Low band-edge (non-hopping mode)



Low band-edge (hopping mode)



High band-edge (non-hopping mode)



High band-edge (hopping mode)

gilent Spectrum Analyzer - Swept SA		CENCE IN	IT SOURCE OFF	ALIGNAUTO	09:03:39 PM Sep 07	2022	
Center Freq 2.510000000	GHz PNO: Fast ↔		#Avg	Type: RMS old: 300/300	TRACE	456	Frequency
Ref Offset 9.17 dB 10 dB/div Ref 20.00 dBm	IFGain:Low	#Atten: 30 dB			4 2.520 48 G -48.242 d	HE	Auto Tune
10.0 0.00 -10.0 + 1 -10.0 + 1							Center Free 2.510000000 GH
20.0 30.0 40.0			4-			O dBm	Start Free 2.470000000 GH;
50.0 Under				gelation of the second	รมีการสมรู้เการ ⁴ มรูปกรรม		Stop Free 2.55000000 GH
Start 2.47000 GHz #Res BW 100 kHz #KR MODE TRC SCL X	#VBW	300 kHz Y -5.099 dBm	FUNCTION		Stop 2.55000 667 ms (1001 FUNCTION VALUE	pts)	CF Step 8.000000 MH Auto Mai
2 N 1 F 2.48 3 N 1 F 2.50 4 N 1 F 2.52 5 6 6 7	3 50 GHz 0 00 GHz	-51.639 dBm -51.914 dBm -48.242 dBm					Freq Offse 0 H
8 9 10 11		Ш				~	
SG				STATUS			



5.9 Conducted spurious emissions

5.9.1 Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.9.2 Test setup



5.9.3 Test procedure

- a) Test method: ANSI C63.10-2013 Section 6.10.4
- b) The EUT was set to non-hopping mode & hopping mode during the test.
- c) The transmitter output of EUT is connected to the spectrum analyzer.
- d) Spectrum analyzer setting: RBW = 100 kHz, VBW = 300 kHz, Detector = Peak.

5.9.4 Test results

Notes:

All modes of operation of the EUT were investigated, and only the worst-case results are reported. The worst-case mode: TX mode (π /4-DQPSK).



Conducted spurious emissions $-\pi/4$ -DQPSK mode



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Conducted spurious emissions $-\pi/4$ -DQPSK mode



Frequency enter Freq 515.000000 MHz): Fast ++ Trig: Free Run in:1 ow #Atten: 20 dB #Avg Type: RMS Avg|Hold: 10/10 Auto Tun Ref Offset 9.17 dB Ref 19.17 dBm Center Freq 515.000000 MH; Start Free 30.000000 MH Stop Freq 1.00000000 GH CF Step 97.000000 MHz MH Ma **♦**¹ Freq Offse 0 H; Stop 1.0000 GHz Sweep 94.00 ms (30001 pte tart 30.0 MHz Res BW 100 kHz #VBW 300 kHz

CH78

CH78

enter Freq 13.7500	PNO: Fast		#Avg Type: RMS Avg Hold: 9/10	08:36:23 PM Sep 07, 2022 TRACE 2 3 4 5 6 TYPE MULTINE DET P P P P P P	Frequency
Ref Offset 9.1 dB/div Ref 19.17 d		#Atten: 20 dB	Mkr2	26.361 45 GHz -45.812 dBm	Auto Tun
og 117 183 0.8					Center Fre 13.750000000 GH
0.8				-21.10 dBn	Start Fre 1.00000000 Gi
					Stop Fre 26.50000000 GF
Res BW 100 kHz	#V	BW 300 kHz	· · · · · ·	Stop 26.50 GH2 2.438 s (30001 pts)	CF Ste 2.55000000 GF
Res BW 100 kHz (R MODE TRC SCL 1 1 2 N 3 4	#V 2.479 85 GHz 26.361 45 GHz		Sweep	Stop 26.50 GHz 2.438 s (30001 pts) PUNCTION VALUE	2.550000000 GI <u>Auto</u> M Freq Offs
	× 2.479 85 GHz	Y FL -5.304 dBm	· · · · · ·	2.438 s (30001 pts)	2.55000000 G

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5.10 Radiated spurious emission

5.10.1 Limits

§ 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

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

§ 15.209 Radiated emission limits; general requirements.

Note 1: the tighter limit applies at the band edges.

Note 2: the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector

§ 15.35 (b) requirements:

When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.253(d), 15.255, 15.256, and 15.509 through 15.519, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.



According to ANSI C63.10-2013, the tests shall be performed in the frequency range shown in the following table:

Frequency range of measurements for unlicensed wireless device

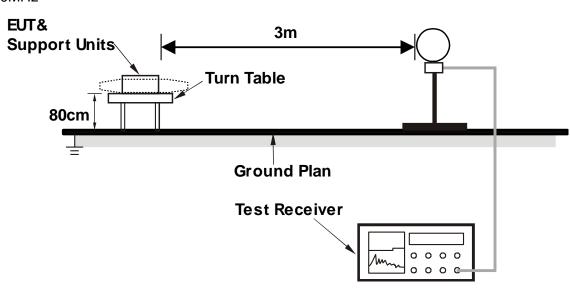
Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Frequency range of measurements for unlicensed wireless device with digital device

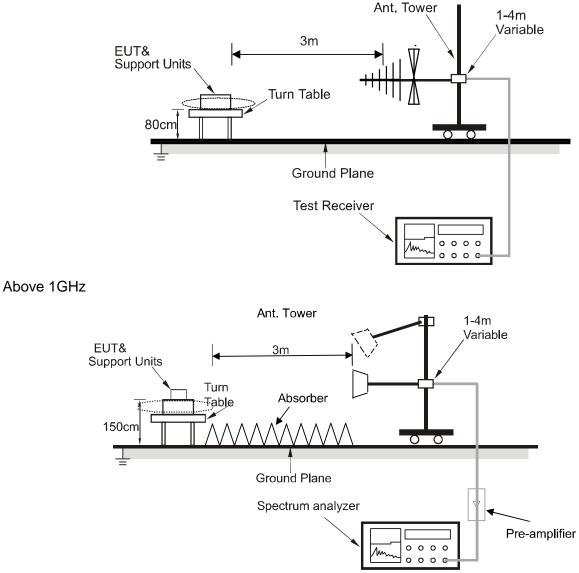
Highest frequency generated or used in the device or on which the device operates or tunes	Upper frequency range of measurement
Below 1.705 MHz	30 MHz
1.705 MHz to 108 MHz	1000 MHz
108 MHz to 500 MHz	2000 MHz
500 MHz to 1000 MHz	5000 MHz
	5th harmonic of the highest frequency or 40 GHz, whichever is lower



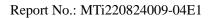
5.10.2 Test setup Below 30MHz



30MHz~1GHz



For the actual test configuration, please refer to the related item - Photographs of the test setup.





5.10.3 Test procedure

a) Test method: ANSI C63.10-2013 Section 6.3, 6.4, 6.5, 6.6, 6.10.

b) The EUT is placed on an on-conducting table 0.8 meters above the ground plane for measurement below 1GHz, 1.5 meters above the ground plane for measurement above 1GHz.

c) Emission blew 18 GHz were measured at a 3 meters test distance, above 18 GHz were measured at 1.5-meter test distance with the application of a distance correction factor

d) The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

KDB 558074 D01 15.247 Meas Guidance v05r02

The use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the unwanted emission limit is subject to an average field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period.

Test instrument setup

Frequency	Test receiver / Spectrum analyzer setting
9 kHz ~ 150 kHz	Quasi Peak / RBW: 200 Hz
150 kHz ~ 30 MHz	Quasi Peak / RBW: 9 kHz
30 MHz ~ 1 GHz	Quasi Peak / RBW: 120 kHz
Above 1 GHz	Peak / RBW: 1 MHz, VBW: 3MHz, Peak detector AVG / RBW: 1 MHz, VBW: 1/T, Peak detector

5.10.4 Test results

Notes:

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

All modes of operation of the EUT were investigated, and only the worst-case results are reported.

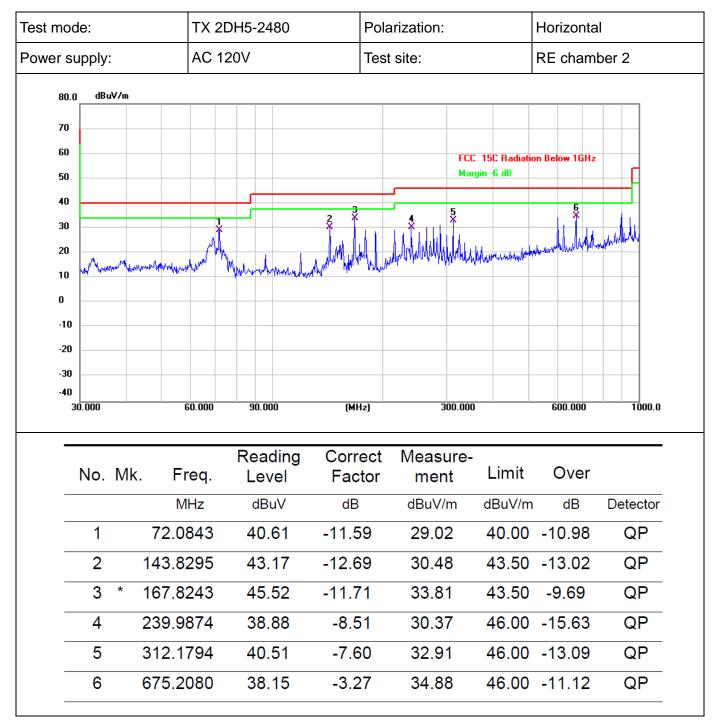
There were no emissions found below 30MHz within 20dB of the limit.

Calculation formula:

Measurement ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Correct Factor (dB/m) Over (dB) = Measurement ($dB\mu V/m$) – Limit ($dB\mu V/m$)

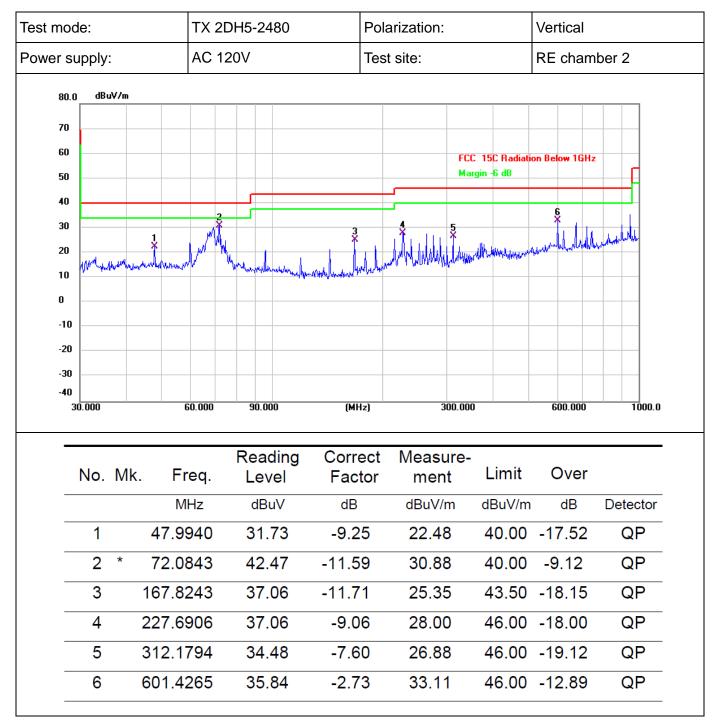


Radiated emissions between 30MHz – 1GHz





Radiated emissions between 30MHz – 1GHz





Radiated emissions 1 GHz ~ 25 GHz

Frequency	Reading Level	Correct Factor	Measuremen t	Limits	Over	Detector	Polarization					
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Peak/AVG	H/V					
	π/4-DQPSK - 2402 MHz TX mode											
4804	44.23	0.81	45.04	74.00	-28.96	Peak	V					
4804	38.21	0.81	39.02	54.00	-14.98	AVG	V					
7206	39.63	5.86	45.49	74.00	-28.51	Peak	V					
7206	33.39	5.86	39.25	54.00	-14.75	AVG	V					
9608	43.76	6.32	50.08	74.00	-23.92	Peak	V					
9608	37.79	6.32	44.11	54.00	-9.89	AVG	V					
4804	47.18	0.81	47.99	74.00	-26.01	Peak	Н					
4804	40.75	0.81	41.56	54.00	-12.44	AVG	Н					
7206	39.99	5.86	45.85	74.00	-28.15	Peak	Н					
7206	33.69	5.86	39.55	54.00	-14.45	AVG	Н					
9608	44.18	6.32	50.50	74.00	-23.50	Peak	Н					
9608	38.05	6.32	44.37	54.00	-9.63	AVG	Н					
		π/4	-DQPSK - 244	11 MHz TX m	ode		•					
4882	44.37	1.18	45.55	74.00	-28.45	Peak	V					
4882	38.06	1.18	39.24	54.00	-14.76	AVG	V					
7323	40.12	5.52	45.64	74.00	-28.36	Peak	V					
7323	33.86	5.52	39.38	54.00	-14.62	AVG	V					
9764	41.66	6.21	47.87	74.00	-26.13	Peak	V					
9764	35.35	6.21	41.56	54.00	-12.44	AVG	V					
4882	48.13	1.18	49.31	74.00	-24.69	Peak	Н					
4882	42.07	1.18	43.25	54.00	-10.75	AVG	Н					
7323	42.17	5.52	47.69	74.00	-26.31	Peak	н					
7323	35.87	5.52	41.39	54.00	-12.61	AVG	Н					
9764	43.34	6.21	49.55	74.00	-24.45	Peak	н					
9764	37.05	6.21	43.26	54.00	-10.74	AVG	н					



Frequency	Reading Level	Correct Factor	Measuremen t	Limits	Over	Detector	Polarization					
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Peak/AVG	H/V					
	π/4-DQPSK - 2480 MHz TX mode											
4960	39.84	1.53	41.37	74.00	-32.63	Peak	V					
4960	33.71	1.53	35.24	54.00	-18.76	AVG	V					
7440	40.02	5.16	45.18	74.00	-28.82	Peak	V					
7440	33.96	5.16	39.12	54.00	-14.88	AVG	V					
9920	38.56	6.09	44.65	74.00	-29.35	Peak	V					
9920	32.27	6.09	38.36	54.00	-15.64	AVG	V					
4960	47.12	1.53	48.65	74.00	-25.35	Peak	Н					
4960	40.73	1.53	42.26	54.00	-11.74	AVG	Н					
7440	41.19	5.16	46.35	74.00	-27.65	Peak	Н					
7440	35.15	5.16	40.31	54.00	-13.69	AVG	Н					
9920	43.64	6.09	49.73	74.00	-24.27	Peak	Н					
9920	37.43	6.09	43.52	54.00	-10.48	AVG	Н					



Radiated emissions at band edge

Frequency	Reading Level	Correct Factor	Measurement	Limits	Over	Detector	Polarization
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Peak/AVG	H/V
π/4-DQPSK – Low band-edge							
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Peak/AVG	H/V
2310	46.69	-8.20	38.49	74.00	-35.51	Peak	V
2310	37.08	-8.20	28.88	54.00	-25.12	AVG	V
2390	47.22	-7.83	39.39	74.00	-34.61	Peak	V
2390	37.53	-7.83	29.70	54.00	-24.30	AVG	V
2310	46.93	-8.20	38.73	74.00	-35.27	Peak	Н
2310	37.08	-8.20	28.88	54.00	-25.12	AVG	Н
2390	46.80	-7.83	38.97	74.00	-35.03	Peak	Н
2390	37.79	-7.83	29.96	54.00	-24.04	AVG	Н
			π/4-DQPSK – H	ligh band-edg	e		
2483.5	47.46	-7.39	40.07	74.00	-33.93	Peak	V
2483.5	37.77	-7.39	30.38	54.00	-23.62	AVG	V
2500	48.32	-7.32	41.00	74.00	-33.00	Peak	V
2500	37.72	-7.32	30.40	54.00	-23.60	AVG	V
2483.5	48.02	-7.39	40.63	74.00	-33.37	Peak	Н
2483.5	38.38	-7.39	30.99	54.00	-23.01	AVG	Н
2500	47.13	-7.32	39.81	74.00	-34.19	Peak	Н
2500	38.30	-7.32	30.98	54.00	-23.02	AVG	Н



Photographs of the Test Setup

See the Appendix – Test Setup Photos.



Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----