RADIO TEST REPORT FCC ID: 2A2JY-DP1425

Product: UT3 Drawing Pad

Trade Mark: ugee

Model No.: DP1425

Family Model: DP1401, DP1402, DP1403

Report No.: S24060606203001

Issue Date: Aug. 05, 2024

Prepared for

Hanvon Ugee Technology Co., Ltd.

2/F, West of 3/F, 4/F, No.4 Building, Fulongte Industrial Park, Huaxing Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	Hanvon Ugee Technology Co., Ltd.
Address	2/F, West of 3/F, 4/F, No.4 Building, Fulongte Industrial Park, Huaxing Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Manufacturer's Name	Hanvon Ugee Technology Co., Ltd.
Address	2/F, West of 3/F, 4/F, No.4 Building, Fulongte Industrial Park, Huaxing Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Product description	
Product name	UT3 Drawing Pad
Trade Mark	ugee
Model and/or type reference	DP1425
Family Model	DP1401, DP1402, DP1403
Test Sample number	S240606062003
Date (s) of performance of tests.	Jun. 06, 2024 ~ Aug. 05, 2024

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document. The test results of this report relate only to the tested sample identified in this report.

Prepared . Many . Hu	Reviewed .	Aanon Cheng	Approved :	Alex Li
By · Mary Hu (Project Engineer)	Ву ' —	Aaron Cheng (Supervisor)	– By [·]	Alex Li (Manager)

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2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- All test items were verified and recorded according to the standards and without any deviation during the test

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration
The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

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the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±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	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB
10	Occupied bandwidth	±4.7%

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	UT3 Drawing Pad	
Trade Mark	ugee	
FCC ID	2A2JY-DP1425	
Model No.	DP1425	
Family Model	DP1401, DP1402, DP1403	
Model Difference	All models are the same circuit and RF module, except for model names.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	Steel sheet Antenna	
Antenna Gain	0.2 dBi	
Adapter	Model: QC16US Input: 100-240V~, 50/60Hz 1.0A PD Output: 5.0V3.0A 15.0W 9.0V3.0A 27.0W 12.0V2.75A 33.0W 15.0V2.2A 33.0W 20.0V1.65A 33.0W PPS Output: 5.0-11.0V3.0A 33.0W MAX.; 5.0-16.0V2.0A 32.0W MAX.	
Battery	Typical Capacity: DC 3.87V, 10300mAh, 39.87Wh Rated Capacity: DC 3.87V, 10000mAh, 38.70Wh	
Power supply	DC 3.87V from battery or DC 5V from Adapter.	
HW Version	N/A	
SW Version	N/A	

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

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Revision History

Donart No.	Version	Description	Jaquad Data
Report No.	version	Description	Issued Date
S24060606203001	Rev.01	Initial issue of report	Aug. 05, 2024

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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for $\pi/4$ -DQPSK modulation; 3Mbps for 8-DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
39	2441
40	2442
77	2479
78	2480

Note: fc=2402MHz+k×1MHz k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission	
Final Test Mode	Description
Mode 1	normal link mode
Mode 1	normal link mode

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases	
Final Test Mode	Description
Mode 1	normal link mode
Mode 2	CH00(2402MHz)
Mode 3	CH39(2441MHz)
Mode 4	CH78(2480MHz)

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

For Conducted Test Cases	
Final Test Mode	Description
Mode 2	CH00(2402MHz)
Mode 3	CH39(2441MHz)
Mode 4	CH78(2480MHz)
Mode 5	Hopping mode

Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

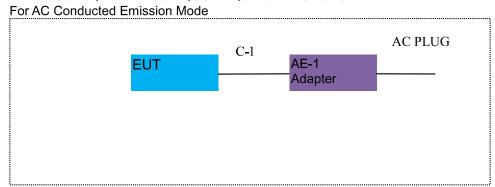
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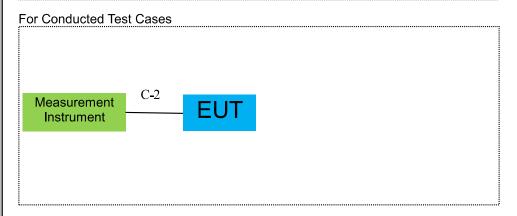


SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



For Radiated Test C	ases	 	
	EUT		



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

2. EUT built-in battery-powered, the battery is fully-charged.

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6.2 SUPPORT EQUIPMENT

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.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	QC16US	QC16US240419G100274W	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Type-C Cable	YES	NO	0.8m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

R <u>adiatio</u>	Radiation& Conducted Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.03.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

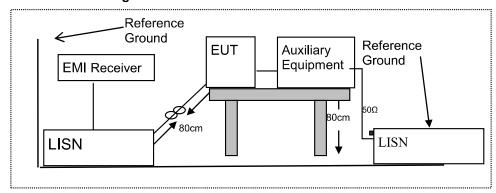
7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit		
requericy(Mr12)	Quasi-peak	Average	
0.15-0.5	66-56*	56-46*	
0.5-5.0	56	46	
5.0-30.0	60	50	

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.1.5 Test Results

Pass

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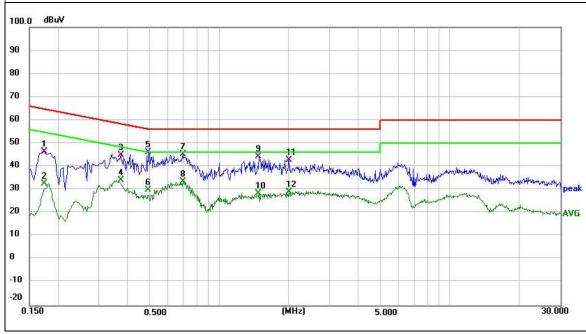
7.1.6 Test Results

EUT:	UT3 Drawing Pad	Model Name:	DP1425
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remar
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	k
0.1740	36.45	9.97	46.42	64.77	-18.35	QP
0.1740	22.71	9.97	32.68	54.77	-22.09	AVG
0.3740	34.48	10.38	44.86	58.41	-13.55	QP
0.3740	23.63	10.38	34.01	48.41	-14.40	AVG
0.4940	35.49	10.63	46.12	56.10	-9.98	QP
0.4940	19.42	10.63	30.05	46.10	-16.05	AVG
0.6940	34.31	11.03	45.34	56.00	-10.66	QP
0.6940	22.47	11.03	33.50	46.00	-12.50	AVG
1.4819	31.64	12.62	44.26	56.00	-11.74	QP
1.4819	15.69	12.62	28.31	46.00	-17.69	AVG
2.0020	33.19	9.66	42.85	56.00	-13.15	QP
2.0020	19.29	9.66	28.95	46.00	-17.05	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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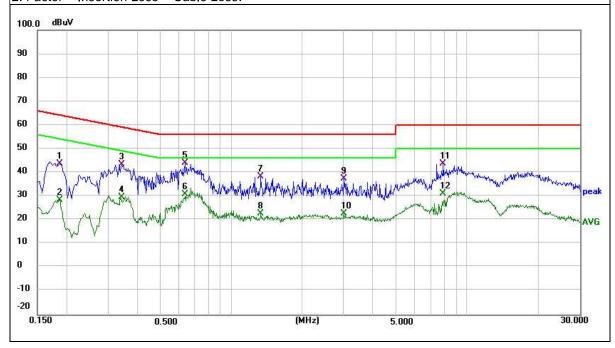


EUT:	UT3 Drawing Pad	Model Name:	DP1425
Temperature:	25℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1862	33.77	10.01	43.78	64.20	-20.42	QP
0.1862	18.46	10.01	28.47	54.20	-25.73	AVG
0.3420	33.26	10.32	43.58	59.15	-15.57	QP
0.3420	19.32	10.32	29.64	49.15	-19.51	AVG
0.6340	33.22	10.91	44.13	56.00	-11.87	QP
0.6340	20.03	10.91	30.94	46.00	-15.06	AVG
1.3340	26.03	12.32	38.35	56.00	-17.65	QP
1.3340	10.46	12.32	22.78	46.00	-23.22	AVG
3.0020	27.69	9.67	37.36	56.00	-18.64	QP
3.0020	13.11	9.67	22.78	46.00	-23.22	AVG
7.9020	34.21	9.68	43.89	60.00	-16.11	QP
7.9020	21.52	9.68	31.20	50.00	-18.80	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): 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)). According to FCC Part15.205, Restricted bands

o, i tootiiotoa bairao		
MHz	MHz	GHz
16.42-16.423	399.9-410	4.5-5.15
16.69475-16.69525	608-614	5.35-5.46
16.80425-16.80475	960-1240	7.25-7.75
25.5-25.67	1300-1427	8.025-8.5
37.5-38.25	1435-1626.5	9.0-9.2
73-74.6	1645.5-1646.5	9.3-9.5
74.8-75.2	1660-1710	10.6-12.7
123-138	2200-2300	14.47-14.5
149.9-150.05	2310-2390	15.35-16.2
156.52475-156.52525	2483.5-2500	17.7-21.4
156.7-156.9	2690-2900	22.01-23.12
162.0125-167.17	3260-3267	23.6-24.0
167.72-173.2	3332-3339	31.2-31.8
240-285	3345.8-3358	36.43-36.5
322-335.4	3600-4400	(2)
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHz MHz 16.42-16.423 399.9-410 16.69475-16.69525 608-614 16.80425-16.80475 960-1240 25.5-25.67 1300-1427 37.5-38.25 1435-1626.5 73-74.6 1645.5-1646.5 74.8-75.2 1660-1710 123-138 2200-2300 149.9-150.05 2310-2390 156.52475-156.52525 2483.5-2500 156.7-156.9 2690-2900 162.0125-167.17 3260-3267 167.72-173.2 3332-3339 240-285 3345.8-3358

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

restricted barid specified on 16:200(a), then the 16:200(a) firm in the table below has to be followed:						
Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance			
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300			
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30			
1.705~30.0	30	29.5	30			
30-88	100	40	3			
88-216	150	43.5	3			
216-960	200	46	3			
Above 960	500	54	3			

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)				
	PEAK	AVERAGE			
Above 1000	74	54			

Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

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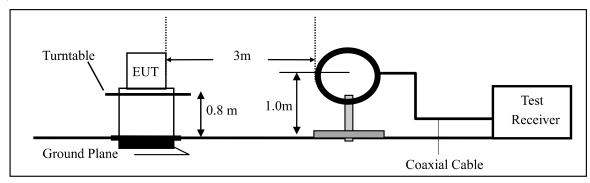


7.2.3 Measuring Instruments

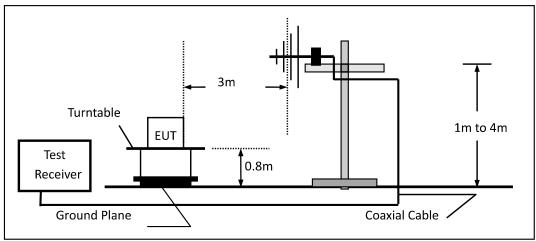
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

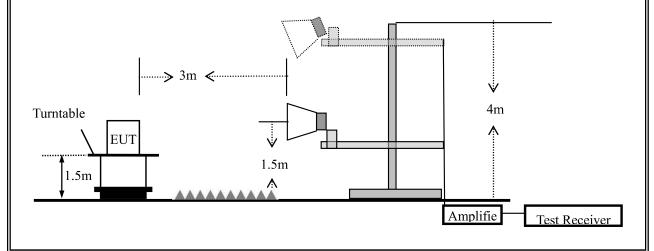
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1 MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:
 - Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

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During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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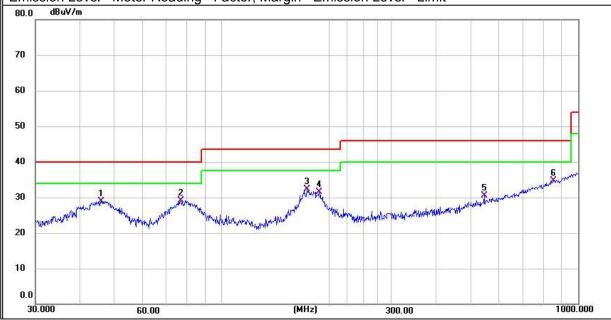
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	UT3 Drawing Pad	Model Name:	DP1425
Temperature:	25℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 2
Test Voltage:	DC 3.87V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.1779	8.72	20.24	28.96	40.00	-11.04	QP
V	76.7806	14.30	14.89	29.19	40.00	-10.81	QP
V	173.2050	16.26	15.96	32.22	43.50	-11.28	QP
V	187.7530	13.45	18.11	31.56	43.50	-11.94	QP
V	545.1825	6.10	24.45	30.55	46.00	-15.45	QP
V	854.0247	5.80	28.97	34.77	46.00	-11.23	QP QP QP QP QP QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



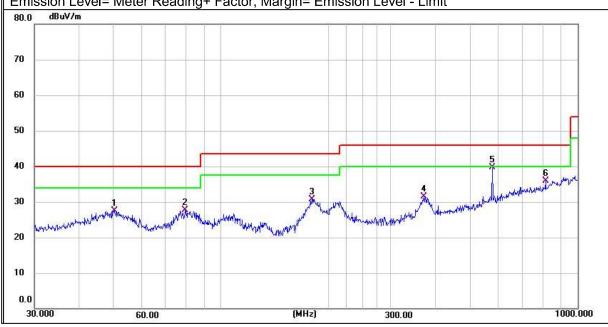
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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	50.4090	7.16	20.40	27.56	40.00	-12.44	QP	
Н	79.5210	13.16	14.61	27.77	40.00	-12.23	QP	
Н	180.0164	13.90	16.76	30.66	43.50	-12.84	QP	
Н	370.7022	9.83	21.67	31.50	46.00	-14.50	QP	
Н	576.6443	14.41	25.31	39.72	46.00	-6.28	QP	
Н	813.1114	7.42	28.52	35.94	46.00	-10.06	QP	

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit



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■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Cha	nnel (2402	MHz)(GFSK)	Above 1G			
4804.71	63.84	5.21	35.59	44.30	60.34	74.00	-13.66	Pk	Vertical
4804.71	43.43	5.21	35.59	44.30	39.93	54.00	-14.07	AV	Vertical
7206.14	62.58	6.48	36.27	44.60	60.73	74.00	-13.27	Pk	Vertical
7206.14	42.28	6.48	36.27	44.60	40.43	54.00	-13.57	AV	Vertical
4804.49	60.06	5.21	35.55	44.30	56.52	74.00	-17.48	Pk	Horizontal
4804.49	41.19	5.21	35.55	44.30	37.65	54.00	-16.35	AV	Horizontal
7206.93	63.95	6.48	36.27	44.52	62.18	74.00	-11.82	Pk	Horizontal
7206.93	41.31	6.48	36.27	44.52	39.54	54.00	-14.46	AV	Horizontal
			Mid Chan	nel (2441 N	/IHz)(GFSK)-	-Above 1G			
4882.43	65.71	5.21	35.66	44.20	62.38	74.00	-11.62	Pk	Vertical
4882.43	43.36	5.21	35.66	44.20	40.03	54.00	-13.97	AV	Vertical
7323.94	60.96	7.10	36.50	44.43	60.13	74.00	-13.87	Pk	Vertical
7323.94	43.08	7.10	36.50	44.43	42.25	54.00	-11.75	AV	Vertical
4882.91	60.92	5.21	35.66	44.20	57.59	74.00	-16.41	Pk	Horizontal
4882.91	43.69	5.21	35.66	44.20	40.36	54.00	-13.64	AV	Horizontal
7324.68	59.36	7.10	36.50	44.43	58.53	74.00	-15.47	Pk	Horizontal
7324.68	43.32	7.10	36.50	44.43	42.49	54.00	-11.51	AV	Horizontal
			High Chan	nel (2480 l	/lHz)(GFSK)-	- Above 1G			
4959.21	66.94	5.21	35.52	44.21	63.46	74.00	-10.54	Pk	Vertical
4959.21	43.46	5.21	35.52	44.21	39.98	54.00	-14.02	AV	Vertical
7439.19	61.75	7.10	36.53	44.60	60.78	74.00	-13.22	Pk	Vertical
7439.19	42.62	7.10	36.53	44.60	41.65	54.00	-12.35	AV	Vertical
4960.89	61.44	5.21	35.52	44.21	57.96	74.00	-16.04	Pk	Horizontal
4960.89	42.16	5.21	35.52	44.21	38.68	54.00	-15.32	AV	Horizontal
7440.38	63.87	7.10	36.53	44.60	62.90	74.00	-11.10	Pk	Horizontal
7440.38	43.10	7.10	36.53	44.60	42.13	54.00	-11.87	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MH	lz
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		Model No.:	DP1425
Temperature :	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

All the modulation modes have been tested, and the worst result was report as below:

tilo illoadi	<u> </u>	<u>00 114 0</u>	20011 1001	oa, ana	ic wordt rec	one was	OIL GO DC	710 11.	
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
1Mbps(GFSK)-Non-hopping									
2310.00	54.15	2.97	27.80	43.80	41.12	74	-32.88	Pk	Horizontal
2310.00	44.80	2.97	27.80	43.80	31.77	54	-22.23	AV	Horizontal
2310.00	54.50	2.97	27.80	43.80	41.47	74	-32.53	Pk	Vertical
2310.00	43.76	2.97	27.80	43.80	30.73	54	-23.27	AV	Vertical
2390.00	50.41	3.14	27.21	43.80	36.96	74	-37.04	Pk	Vertical
2390.00	44.29	3.14	27.21	43.80	30.84	54	-23.16	AV	Vertical
2390.00	54.18	3.14	27.21	43.80	40.73	74	-33.27	Pk	Horizontal
2390.00	40.61	3.14	27.21	43.80	27.16	54	-26.84	AV	Horizontal
2483.50	50.80	3.58	27.70	44.00	38.08	74	-35.92	Pk	Vertical
2483.50	40.89	3.58	27.70	44.00	28.17	54	-25.83	AV	Vertical
2483.50	52.81	3.58	27.70	44.00	40.09	74	-33.91	Pk	Horizontal
2483.50	42.23	3.58	27.70	44.00	29.51	54	-24.49	AV	Horizontal
				1Mbps(G	FSK)-hopping	<u> </u>			
2310.00	53.87	2.97	27.80	43.80	40.84	74	-33.16	Pk	Horizontal
2310.00	43.30	2.97	27.80	43.80	30.27	54	-23.73	AV	Horizontal
2310.00	50.52	2.97	27.80	43.80	37.49	74	-36.51	Pk	Vertical
2310.00	41.11	2.97	27.80	43.80	28.08	54	-25.92	AV	Vertical
2390.00	50.40	3.14	27.21	43.80	36.95	74	-37.05	Pk	Vertical
2390.00	44.19	3.14	27.21	43.80	30.74	54	-23.26	AV	Vertical
2390.00	50.95	3.14	27.21	43.80	37.50	74	-36.50	Pk	Horizontal
2390.00	41.15	3.14	27.21	43.80	27.70	54	-26.30	AV	Horizontal
2483.50	54.84	3.58	27.70	44.00	42.12	74	-31.88	Pk	Vertical
2483.50	41.70	3.58	27.70	44.00	28.98	54	-25.02	AV	Vertical
2483.50	50.29	3.58	27.70	44.00	37.57	74	-36.43	Pk	Horizontal
2483.50	43.37	3.58	27.70	44.00	30.65	54	-23.35	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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	Spurious	Emission	in	Restricted	Band	3260MHz-18000MHz
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EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	62.96	4.04	29.57	44.70	51.87	74	-22.13	Pk	Vertical
3260	47.60	4.04	29.57	44.70	36.51	54	-17.49	AV	Vertical
3260	56.66	4.04	29.57	44.70	45.57	74	-28.43	Pk	Horizontal
3260	47.09	4.04	29.57	44.70	36.00	54	-18.00	AV	Horizontal
3332	62.68	4.26	29.87	44.40	52.41	74	-21.59	Pk	Vertical
3332	45.53	4.26	29.87	44.40	35.26	54	-18.74	AV	Vertical
3332	63.03	4.26	29.87	44.40	52.76	74	-21.24	Pk	Horizontal
3332	46.87	4.26	29.87	44.40	36.60	54	-17.40	AV	Horizontal
17797	49.39	10.99	43.95	43.50	60.83	74	-13.17	Pk	Vertical
17797	34.14	10.99	43.95	43.50	45.58	54	-8.42	AV	Vertical
17788	56.86	11.81	43.69	44.60	67.76	74	-6.24	Pk	Horizontal
17788	36.36	11.81	43.69	44.60	47.26	54	-6.74	AV	Horizontal

Note: (1) All other emissions more than 20dB below the limit.

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7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and ANSI C63.10-2013

7.3.2 Conformance Limit

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

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3

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.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW: To identify clearly the individual channels, 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

7.3.6 Test Results

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mary Hu

Test data reference attachment.

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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.4.2 Conformance Limit

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 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

Report No.: S24060606203001

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2

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.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

RBW: Start with the RBW 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

7.4.6 Test Results

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

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Certificate #4298.01

Report No.: S24060606203001

7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4

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.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

 $RBW \ge 1MHz$

 $VBW \ge RBW$

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for DH5, DH3 and DH1 packet transmitting.

Measure the maximum time duration of one single pulse.

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7.5.6 Test Results

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

Note:

A Period Time = (channel number)*0.4

DH1 Dwell time: Reading * (1600/2)*31.6/(channel number)
DH3 Dwell time: Reading * (1600/4)*31.6/(channel number)
DH5 Dwell time: Reading * (1600/6)*31.6/(channel number)

For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

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7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2

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.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.6.6 Test Results

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

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7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

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.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5.

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.

The EUT was operating in controlled its channel.

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

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.7.6 Test Results

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

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7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 Conformance Limit

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)).

Report No.: S24060606203001

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

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.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

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.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.8.6 Test Results

EUT:	UT3 Drawing Pad	Model No.:	DP1425
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mary Hu

Test data reference attachment.

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