

RADIO TEST REPORT FCC ID: 2ANMU-WP13

Product:Smart PhoneTrade Mark:OUKITELModel No.:WP13Family Model:N/AReport No.:S21060402406001Issue Date:22 Jul. 2021

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD

A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

Prepared by

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TABLE OF CONTENTS

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Certificate #4298.01

1	TES	ST RESULT CERTIFICATION	3
2	SUN	MMARY OF TEST RESULTS	4
3	FAC	CILITIES AND ACCREDITATIONS	5
	8.1	FACILITIES	
-	3.2 3.3	LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	
-		NERAL DESCRIPTION OF EUT	
4			
5		SCRIPTION OF TEST MODES	
6	SET	TUP OF EQUIPMENT UNDER TEST	9
6	5.1	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	9
	5.2	SUPPORT EQUIPMENT	
6	5.3	EQUIPMENTS LIST FOR ALL TEST ITEMS	
7	TES	ST REQUIREMENTS	13
7	7.1	CONDUCTED EMISSIONS TEST	
	7.2	RADIATED SPURIOUS EMISSION	
	7.3	NUMBER OF HOPPING CHANNEL HOPPING CHANNEL SEPARATION MEASUREMENT	
	7.4 7.5	AVERAGE TIME OF OCCUPANCY (DWELL TIME)	
	7.5 7.6	20DB BANDWIDTH TEST	
	.0 7.7	PEAK OUTPUT POWER	
	., 7.8	CONDUCTED BAND EDGE MEASUREMENT	
7	7.9	SPURIOUS RF CONDUCTED EMISSION	
7	7.10	ANTENNA APPLICATION	
7	7.11	FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS	34
8	TES	ST RESULTS	35
8	3.1	DWELL TIME	35
	3.2	MAXIMUM CONDUCTED OUTPUT POWER	
8	3.3	OCCUPIED CHANNEL BANDWIDTH	45
	3.4	CARRIER FREQUENCIES SEPARATION NUMBER OF HOPPING CHANNEL	55
	3.5		
	3.6	BAND EDGE	
8	3.7	CONDUCTED RF SPURIOUS EMISSION	74

Report No.: S21060402406001



1 TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Manufacturer's Name:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Product description	
Product name:	Smart Phone
Model and/or type reference:	WP13
Family Model:	N/A

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.

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The test results of this report relate only to the tested sample identified in this report.

Date of Test	: 04 Jun. 2021 ~21 Jul, 2021	
Testing Engineer	:(Allen Liu)	
Authorized Signatory	:(Alex Li)	

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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			

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Remark:

 "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.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. 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
	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 $y\pm U$, 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	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%

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Smart Phone		
Trade Mark	OUKITEL		
FCC ID	2ANMU-WP13		
Model No.	WP13		
Family Model	N/A		
Model Difference	N/A		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK, π/4-DQPSK, 8-DPSK		
Number of Channels	79 Channels		
Antenna Type	FPC Antenna		
Antenna Gain	1.8 dBi		
Power supply	DC 3.87V/5280mAh from battery or DC 5V from Adapter.		
Adapter	Model: HJ-FC017K7-US Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.0A OR 7.0V2.0A OR 9.0V2.0A OR 12.0V1.5A 18.0W		
HW Version	V318MUB-V3.0		
SW Version	OUKITEL_WP13_EEA_V01		

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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.



Revision History

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Certificate #4298.01

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Report No.	Version	Description	Issued Date	
S21060402406001	Rev.01	Initial issue of report	22 Jul, 2021	



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 π /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		

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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Certificate #4290.01 Report No.: 32 1000402	100001
6 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM For AC Conducted Emission Mode	
C-1 AC PLUG	
EUT AE-1 Adapter	
For Radiated Test Cases	
EUT	
For Conducted Test Cases	
Measurement C-2	
Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform con and this temporary antenna connector is listed in the equipment list.	ducted tests
2. EUT built-in battery-powered, the battery is fully-charged.	



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.

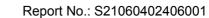
Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	HJ-FC017K7-US	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
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 [Length] 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

		estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.19	2021.11.18	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.19	2021.11.18	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

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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



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	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	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

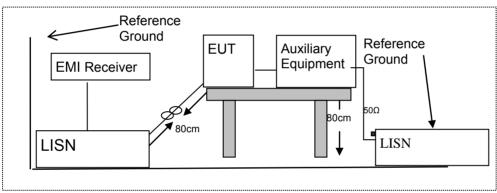
	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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



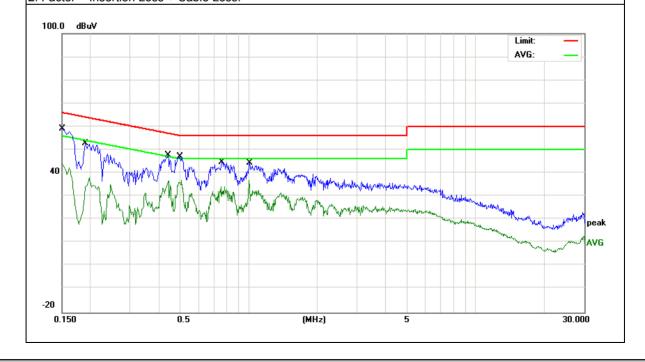
7.1.6 Test Results

EUT:	Smart Phone	Model Name :	WP13
Temperature:	24 ℃	Relative Humidity:	54%
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	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1516	49.20	9.56	58.76	65.91	-7.15	QP
0.1516	39.10	9.56	48.66	55.91	-7.25	AVG
0.1900	43.20	9.55	52.75	64.03	-11.28	QP
0.1900	33.03	9.55	42.58	54.03	-11.45	AVG
0.4420	37.97	9.55	47.52	57.02	-9.50	QP
0.4420	28.47	9.55	38.02	47.02	-9.00	AVG
0.4979	37.44	9.55	46.99	56.03	-9.04	QP
0.4979	27.14	9.55	36.69	46.03	-9.34	AVG
0.7620	35.05	9.55	44.60	56.00	-11.40	QP
0.7620	25.80	9.55	35.35	46.00	-10.65	AVG
1.0060	34.66	9.56	44.22	56.00	-11.78	QP
1.0060	25.02	9.56	34.58	46.00	-11.42	AVG

Remark:

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





EUT:	Smart Phone	Model Name :	WP13
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

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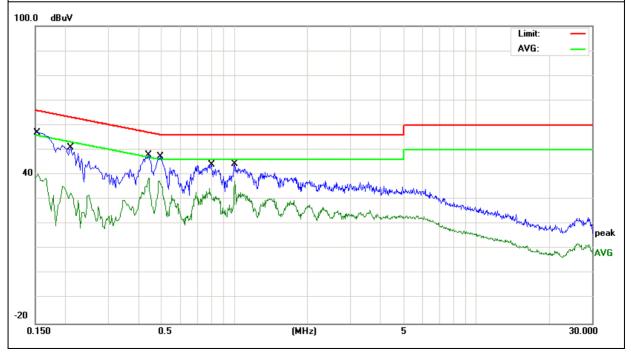
Certificate #4298.01

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Neillaik
0.1547	47.28	9.55	56.83	65.74	-8.91	QP
0.1547	37.34	9.55	46.89	55.74	-8.85	AVG
0.2099	41.35	9.54	50.89	63.21	-12.32	QP
0.2099	31.71	9.54	41.25	53.21	-11.96	AVG
0.4420	38.42	9.54	47.96	57.02	-9.06	QP
0.4420	28.82	9.54	38.36	47.02	-8.66	AVG
0.4939	37.72	9.54	47.26	56.10	-8.84	QP
0.4939	27.72	9.54	37.26	46.10	-8.84	AVG
0.8020	34.43	9.54	43.97	56.00	-12.03	QP
0.8020	24.11	9.54	33.65	46.00	-12.35	AVG
1.0020	34.83	9.55	44.38	56.00	-11.62	QP
1.0020	25.03	9.55	34.58	46.00	-11.42	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





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

According to 1 00 1 art 13.20	According to 1 Go 1 art 13.200, Restricted bands						
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

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 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)

Eroquonov(MHz)	Class B (dBuV/m) (at 3M)				
Frequency(MHz)	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.

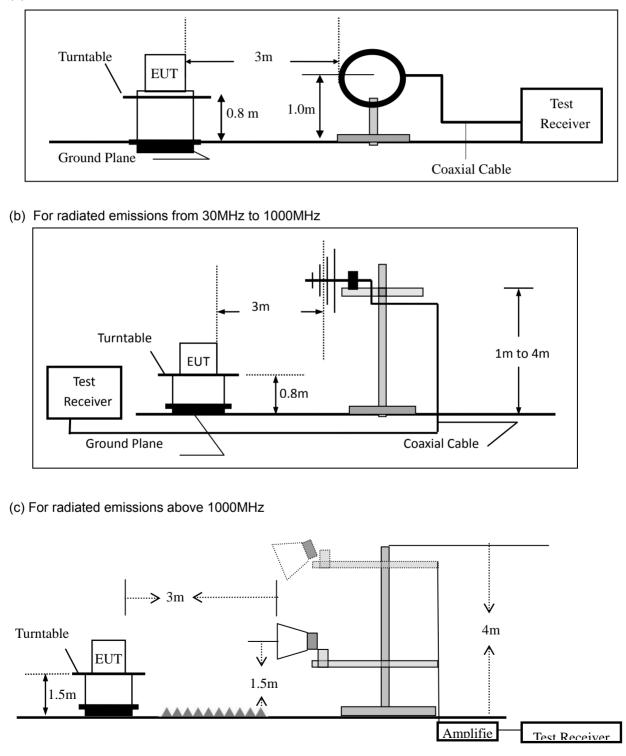


7.2.3 Measuring Instruments

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





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



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:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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

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



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

EUT:	Smart Phone	Model Name :	WP13
Temperature:	24 ℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.87V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	dB) (dBuV/m) (dBuV/m)		(dB)	
V	93.1132	20.71	10.31	31.02	43.50	-12.48	QP
V	119.4361	20.31	12.43	32.74	43.50	-10.76	QP
V	153.7385	20.62	0.62 11.76 32.38 43.9		43.50	-11.12	QP
V	215.2678	18.78	9.91	28.69	43.50	-14.81	QP
V	438.6554	17.04	18.56	35.60	46.00	-10.40	QP
V	526.3967	22.19	20.71	42.90	46.00	-3.10	QP

Remark:

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





Polar	Frequency	ncy Meter Reading Factor Emission Limits		Limits	Margin	Remark		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	138.3873	17.79	12.44	30.23	43.50	-13.27	QP	
Н	262.8955	23.47	14.63	38.10	46.00	-7.90	QP	
Н	426.5210	17.92	18.28	36.20	46.00	-9.80	QP	
Н	522.7179	18.38	20.52	38.90	46.00	-7.10	QP	
Н	801.7863	12.77	24.97	37.74	46.00	-8.26	QP	
Н	962.1623	15.71	28.40	44.11	54.00	-9.89	QP	
						Limit: Margin:	_	
32		Market Contraction of the second seco	n y Millyndrauda			nut the weat for the state		
-8) 40 50 60	70 80	(MH;		00 400 500	600 700	1000.000	



EUT:	Smart Phone			z to 25GHz Model	No ·	Model No.:		WP13			
_or. Femperature					ve Humidity		48%				
		-	2/Mada4					·			
Test Mode:			3/Mode4	Test B	,		Allen L				
All the modul	ation mode	s have b	een testeu	, and the v	Norst result	[was	report	as below	/:		
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Lir	mits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBj	µV/m)	(dB)			
			Low Chanr	nel (2402 N	/Hz)(GFSK)-	Abov	/e 1G				
4804	69.19	5.21	35.59	44.30	65.69	74	4.00	-8.31	Pk	Vertical	
4804	46.18	5.21	35.59	44.30	42.68	54	4.00	-11.32	AV	Vertical	
7206	70.08	6.48	36.27	44.60	68.23	74	4.00	-5.77	Pk	Vertical	
7206	50.82	6.48	36.27	44.60	48.97	54	4.00	-5.03	AV	Vertical	
4804	68.91	5.21	35.55	44.30	65.37	74	4.00	-8.63	Pk	Horizontal	
4804	45.03	5.21	35.55	44.30	41.49	54	4.00	-12.51	AV	Horizontal	
7206	68.68	6.48	36.27	44.52	66.91	74	4.00	-7.09	Pk	Horizonta	
7206	46.65	6.48	36.27	44.52	44.88	54	4.00	-9.12	AV	Horizontal	
			Mid Chanr	ıel (2441 M	1Hz)(GFSK)	-Abov	/e 1G				
4882	70.52	5.21	35.66	44.20	67.19	74	4.00	-6.81	Pk	Vertical	
4882	49.86	5.21	35.66	44.20	46.53	54	4.00	-7.47	AV	Vertical	
7323	69	7.10	36.50	44.43	68.17	74	4.00	-5.83	Pk	Vertical	
7323	50.49	7.10	36.50	44.43	49.66	54	4.00	-4.34	AV	Vertical	
4882	69.26	5.21	35.66	44.20	65.93	74	4.00	-8.07	Pk	Horizonta	
4882	46.55	5.21	35.66	44.20	43.22	54	4.00	-10.78	AV	Horizonta	
7323	69.62	7.10	36.50	44.43	68.79	74	4.00	-5.21	Pk	Horizonta	
7323	47.01	7.10	36.50	44.43	46.18	54	4.00	-7.82	AV	Horizontal	
			High Chanr	nel (2480 N	/Hz)(GFSK)-	Abo	ve 1G				
4960	68.45	5.21	35.52	44.21	64.97	74	4.00	-9.03	Pk	Vertical	
4960	45.06	5.21	35.52	44.21	41.58	54	4.00	-12.42	AV	Vertical	
7440	70.84	7.10	36.53	44.60	69.87	74	4.00	-4.13	Pk	Vertical	
7440	45.79	7.10	36.53	44.60	44.82	54	4.00	-9.18	AV	Vertical	
4960	69.94	5.21	35.52	44.21	66.46	74	4.00	-7.54	Pk	Horizonta	
4960	49.06	5.21	35.52	44.21	45.58	54	4.00	-8.42	AV	Horizonta	
7440	70.06	7.10	36.53	44.60	69.09	74	4.00	-4.91	Pk	Horizonta	
7440	49.98	7.10	36.53	44.60	49.01	54	4.00	-4.99	AV	Horizonta	

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.



Report No.: S21060402406001

■ Spuriou	Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz									
EUT:	Smart P	hone		Model	No.:	WP13	3			
Temperature	e: 20 ℃			Relativ	Relative Humidity:		48%			
Test Mode:	Mode2/	Mode4		Test By	Test By: Allen Liu					
All the mod	All the modulation modes have been tested, and the worst result was report as below:									
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	70.85	2.97	27.80	43.80	57.82	74	-16.18	Pk	Horizontal	
2310.00	50.33	2.97	27.80	43.80	37.30	54	-16.70	AV	Horizontal	
2310.00	68.43	2.97	27.80	43.80	55.40	74	-18.60	Pk	Vertical	
2310.00	45.39	2.97	27.80	43.80	32.36	54	-21.64	AV	Vertical	
2390.00	70.56	3.14	27.21	43.80	57.11	74	-16.89	Pk	Vertical	
2390.00	48.62	3.14	27.21	43.80	35.17	54	-18.83	AV	Vertical	
2390.00	68.05	3.14	27.21	43.80	54.60	74	-19.40	Pk	Horizontal	
2390.00	47.42	3.14	27.21	43.80	33.97	54	-20.03	AV	Horizontal	
2483.50	68.2	3.58	27.70	44.00	55.48	74	-18.52	Pk	Vertical	
2483.50	50.89	3.58	27.70	44.00	38.17	54	-15.83	AV	Vertical	
2483.50	68.69	3.58	27.70	44.00	55.97	74	-18.03	Pk	Horizontal	
2483.50	49.37	3.58	27.70	44.00	36.65	54	-17.35	AV	Horizontal	
				1Mbps (GFS	SK)- hopping					
2310.00	69.37	2.97	27.80	43.80	56.34	74	-17.66	Pk	Horizontal	
2310.00	50.74	2.97	27.80	43.80	37.71	54	-16.29	AV	Horizontal	
2310.00	70.94	2.97	27.80	43.80	57.91	74	-16.09	Pk	Vertical	
2310.00	49.04	2.97	27.80	43.80	36.01	54	-17.99	AV	Vertical	
2390.00	70.6	3.14	27.21	43.80	57.15	74	-16.85	Pk	Vertical	
2390.00	49.99	3.14	27.21	43.80	36.54	54	-17.46	AV	Vertical	
2390.00	70.12	3.14	27.21	43.80	56.67	74	-17.33	Pk	Horizontal	
2390.00	45.95	3.14	27.21	43.80	32.50	54	-21.50	AV	Horizontal	
2483.50	69.36	3.58	27.70	44.00	56.64	74	-17.36	Pk	Vertical	
2483.50	49.64	3.58	27.70	44.00	36.92	54	-17.08	AV	Vertical	
2483.50	70.14	3.58	27.70	44.00	57.42	74	-16.58	Pk	Horizontal	
2483.50	45.46	3.58	27.70	44.00	32.74	54	-21.26	AV	Horizontal	

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



EUT:	S	mart Phone	!	Model	No.:	V	WP13			
Temperature: 20 °C			Relativ	Relative Humidity:		48%				
Test Mode: Mode2/ Mode4			Test By	est By: Allen Liu						
All the modulation modes have been tested,				d, and the	worst resu	lt was	repo	rt as belov	V:	
Frequency Reading Level		Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ\	V/m)	(dB)	Туре	
3260	69.59	4.04	29.57	44.70	58.50	74	4	-15.50	Pk	Vertical
3260	47.93	4.04	29.57	44.70	36.84	54	4	-17.16	AV	Vertical
3260	71	4.04	29.57	44.70	59.91	74	4	-14.09	Pk	Horizontal
3260	50.72	4.04	29.57	44.70	39.63	54	4	-14.37	AV	Horizontal
3332	70.18	4.26	29.87	44.40	59.91	74	4	-14.09	Pk	Vertical
3332	47.57	4.26	29.87	44.40	37.30	54	4	-16.70	AV	Vertical
3332	69.35	4.26	29.87	44.40	59.08	74	4	-14.92	Pk	Horizontal
3332	50.21	4.26	29.87	44.40	39.94	54	4	-14.06	AV	Horizontal
17797	51.59	10.99	43.95	43.50	63.03	74	4	-10.97	Pk	Vertical
17797	37.26	10.99	43.95	43.50	48.70	54	4	-5.30	AV	Vertical
17788	56.51	11.81	43.69	44.60	67.41	74	4	-6.59	Pk	Horizontal
17788	30.15	11.81	43.69	44.60	41.05	54	4	-12.95	AV	Horizontal

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Certificate #4298.01

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



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:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Allen Liu



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.

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 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.4.6 Test Results

EUT:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



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 \geq 1MHz VBW \geq 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.



7.5.6 Test Results

EUT:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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.
- 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



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 \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.6.6 Test Results

EUT:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



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 \geq the 20 dB bandwidth of the emission being measured VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



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)).

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:	Smart Phone	Model No.:	WP13
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu



7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

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

7.9.2 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)).

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level. Then the limit shall be attenuated by at least 20 dB relative to the maximum

amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 30MHzHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.



7.10 ANTENNA APPLICATION

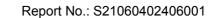
7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: 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.

7.10.2 Result

The EUT antenna is permanent attached FPC antenna (Gain: 1.8dBi). It comply with the standard requirement.

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7.11 FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS 7.11.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

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7.11.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock. Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for FCC Part 15.247 rule.

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

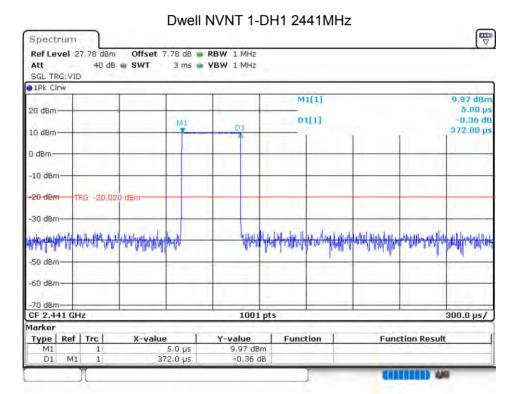
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



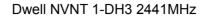
8 TEST RESULTS

8.1 **DWELL TIME**

Condition	Mode	Frequency	Pulse Time	Total Dwell	Period Time	Limit	Verdict
		(MHz)	(ms)	Time (ms)	(ms)	(ms)	
NVNT	1-DH1	2441	0.372	119.04	31600	400	Pass
NVNT	1-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	1-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	0.381	121.92	31600	400	Pass
NVNT	2-DH3	2441	1.62	259.2	31600	400	Pass
NVNT	2-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	3-DH1	2441	0.375	120	31600	400	Pass
NVNT	3-DH3	2441	1.625	260	31600	400	Pass
NVNT	3-DH5	2441	2.872	306.347	31600	400	Pass

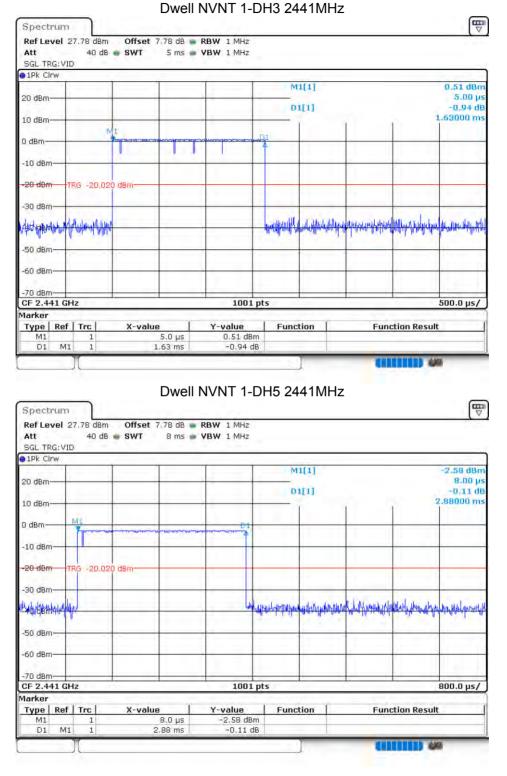




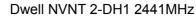


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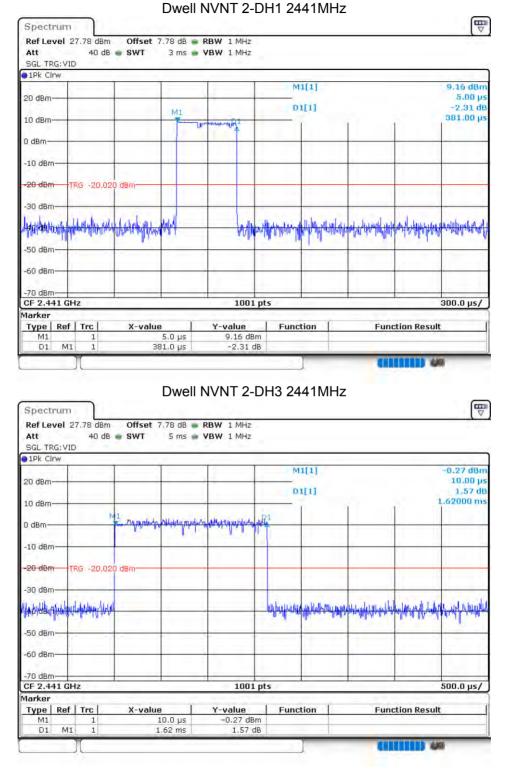
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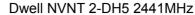




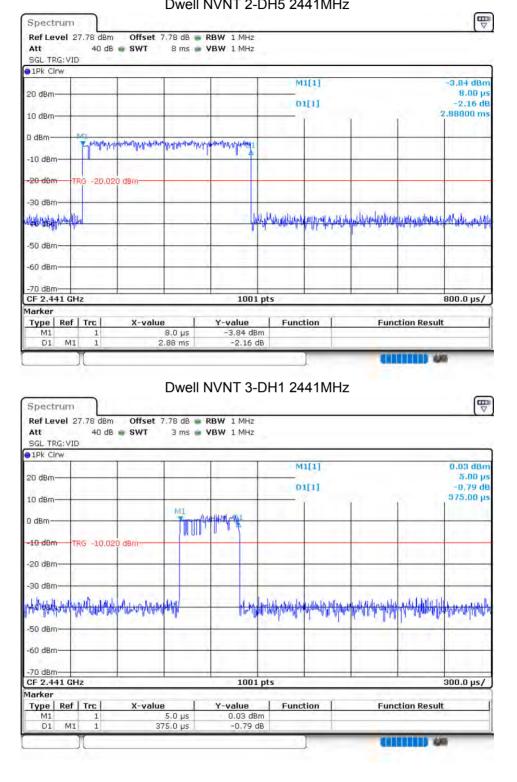
Certificate #4298.01



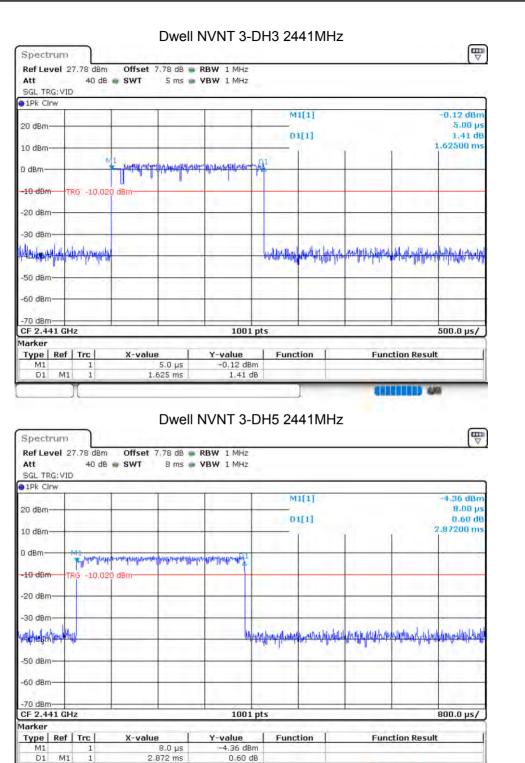




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8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	5.449	30	Pass
NVNT	1-DH5	2441	Ant 1	6.101	30	Pass
NVNT	1-DH5	2480	Ant 1	5.4	30	Pass
NVNT	2-DH5	2402	Ant 1	6.091	21	Pass
NVNT	2-DH5	2441	Ant 1	5.405	21	Pass
NVNT	2-DH5	2480	Ant 1	5.25	21	Pass
NVNT	3-DH5	2402	Ant 1	6.029	21	Pass
NVNT	3-DH5	2441	Ant 1	5.802	21	Pass
NVNT	3-DH5	2480	Ant 1	5.23	21	Pass

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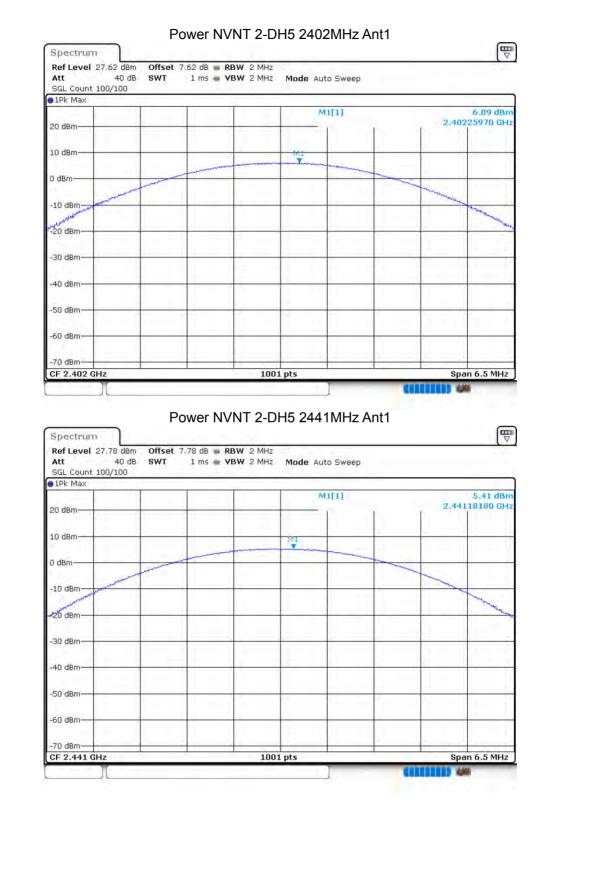
Power NVNT 1-DH5 2402MHz Ant1



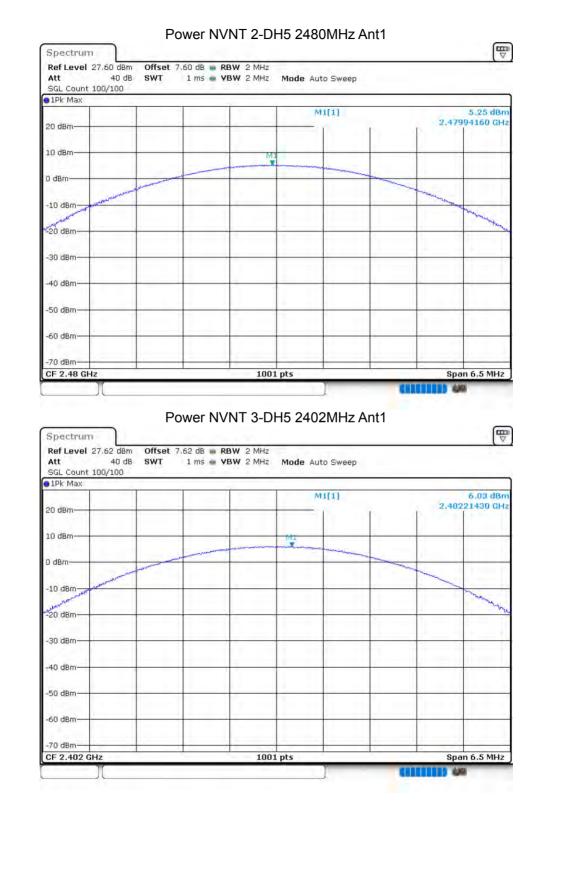


Ref Leve Att SGL Coun 1Pk Max	10 00	Offset 7 SWT	.78 dB 🗰 RB 1 ms 🖶 VB		Mode Auto				
20 dBm		1		1	IM	(1)	D	2.441	6.10 dBm 104500 GHz
							1		
10 dBm					¥				
0 dBm	-							-	
-10 dBm—									
-20 dBm—		-		-					
-30 dBm				1		1			
40 dBm									1
-40 dBm—		1							
-50 dBm			1	-			-		1
-60 dBm—								· · · · · · ·	
-70 dBm-				-		_	-	-	
				1001	1 pts			Spa	in 5.0 MHz
CF 2.441 Spectru		Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480		nt1		₩
CF 2.441 Spectrui Ref Leve Att SGL Coun	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480		nt1		
Spectrui Ref Leve Att SGL Coun 1Pk Max	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto		nt1	2 476	5,40 dBm
CF 2.441 Spectrui Ref Leve Att SGL Coun	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2,479	
Spectrui Ref Leve Att SGL Coun 1Pk Max	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.47	5,40 dBm
CF 2.441 Spectrui Ref Leve Att SGL Coun 1Pk Max 20 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrui Ref Leve Att SGL Coun 1Pk Max 20 dBm- 10 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrum Ref Leve Att SGL Coun 1Pk Max 20 dBm- 10 dBm- 10 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrum Ref Leve Att SGL Coun 1Pk Max 20 dBm- 10 dBm- 10 dBm- -20 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrum Ref Leve Att SGL Coun 1Pk Max 20 dBm- 10 dBm- 10 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrum Ref Leve Att SGL Coun 1Pk Max 20 dBm- 10 dBm- 10 dBm- -20 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.479	5,40 dBm
CF 2.441 Spectrum Ref Leve Att SGL Coun IPK Max 20 dBm- 10 dBm- 10 dBm- -20 dBm- -20 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrum Ref Leve Att SGL Coun 10 dBm- 10 dBm- 10 dBm- -20 dBm- -20 dBm- -40 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectrui Ref Leve Att SGL Coun IPk Max 20 dBm- 10 dBm- 10 dBm- 20 dBm20 dBm30 dBm30 dBm50 dBm60 dBm-	m I 27.60 dBm 40 dB	Offset 7	.60 dB 💩 RB	NT 1-D	H5 2480 Mode Auto	o Sweep	nt1	2.475	5,40 dBm
CF 2.441 Spectru Ref Leve Att SGL Coun IPk Max 20 dBm- 10 dBm- 10 dBm20 dBm30 dBm30 dBm30 dBm30 dBm30 dBm-	m	Offset 7	.60 dB 💩 RB	NT 1-D	Mode Auto	o Sweep	nt1		5,40 dBm 89510 GHz
CF 2.441 Spectrui Ref Leve Att SGL Coun IPk Max 20 dBm- 10 dBm- 10 dBm20 dBm30 dBm30 dBm50 dBm60 dBm70 dBm70 dBm-	m	Offset 7	.60 dB 💩 RB	NT 1-D	Mode Auto	o Sweep	nt1		5,40 dBm

















8.3 OCCUPIED CHANNEL BANDWIDTH

0.0 00001						
Condition	Mode	Frequency	Antenna	99% OBW	-20 dB Bandwidth	Verdict
		(MHz)		(MHz)	(MHz)	
NVNT	1-DH5	2402	Ant 1	0.9091	0.958	Pass
NVNT	1-DH5	2441	Ant 1	0.8991	0.958	Pass
NVNT	1-DH5	2480	Ant 1	0.963	0.988	Pass
NVNT	2-DH5	2402	Ant 1	1.1808	1.298	Pass
NVNT	2-DH5	2441	Ant 1	1.1608	1.282	Pass
NVNT	2-DH5	2480	Ant 1	1.1808	1.31	Pass
NVNT	3-DH5	2402	Ant 1	1.1848	1.296	Pass
NVNT	3-DH5	2441	Ant 1	1.1648	1.278	Pass
NVNT	3-DH5	2480	Ant 1	1.1948	1.304	Pass

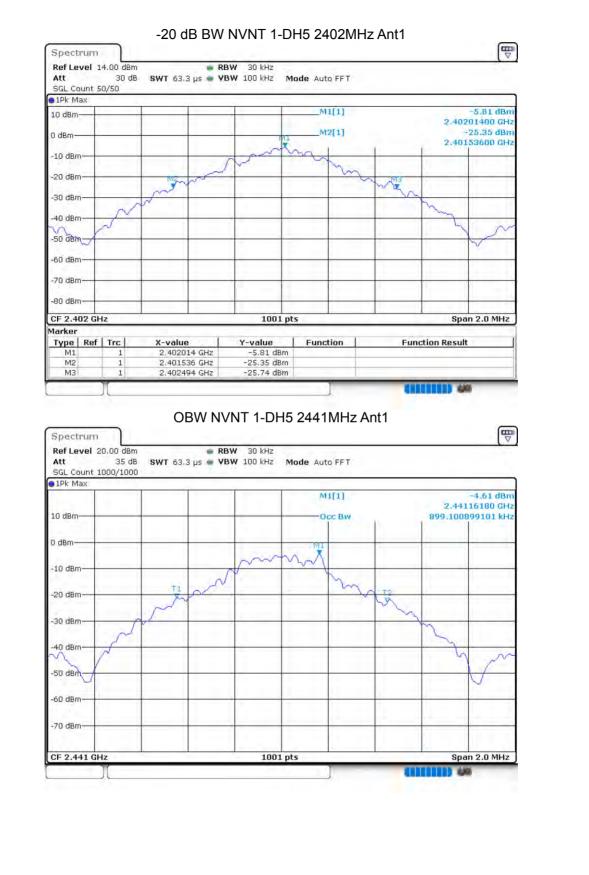
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OBW NVNT 1-DH5 2402MHz Ant1





























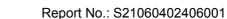














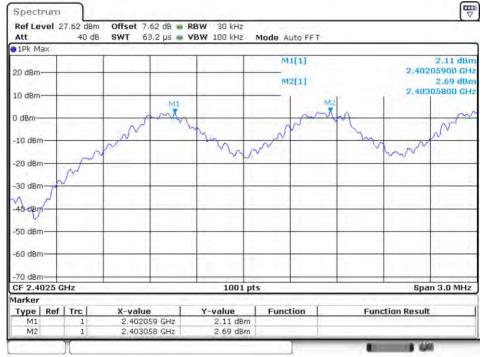
8.4 CARRIER FREQUENCIES SEPARATION

-						
Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
		(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2402.059	2403.058	0.999	0.958	Pass
NVNT	1-DH5	2441.056	2442.058	1.002	0.958	Pass
NVNT	1-DH5	2479.161	2480.163	1.002	0.988	Pass
NVNT	2-DH5	2402.014	2403.013	0.999	0.865	Pass
NVNT	2-DH5	2441.164	2442.166	1.002	0.855	Pass
NVNT	2-DH5	2479.164	2480.166	1.002	0.873	Pass
NVNT	3-DH5	2402.161	2403.163	1.002	0.864	Pass
NVNT	3-DH5	2441.164	2442.163	0.999	0.852	Pass
NVNT	3-DH5	2479.161	2480.163	1.002	0.869	Pass

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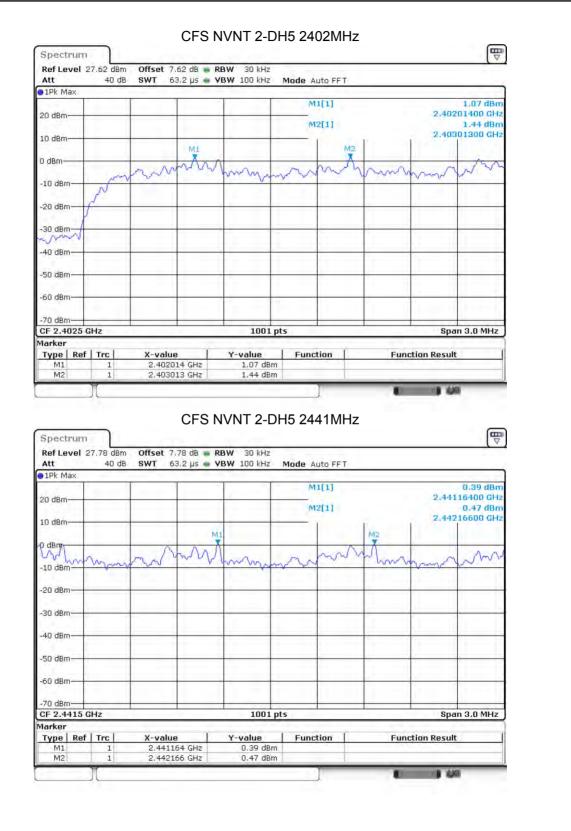
CFS NVNT 1-DH5 2402MHz



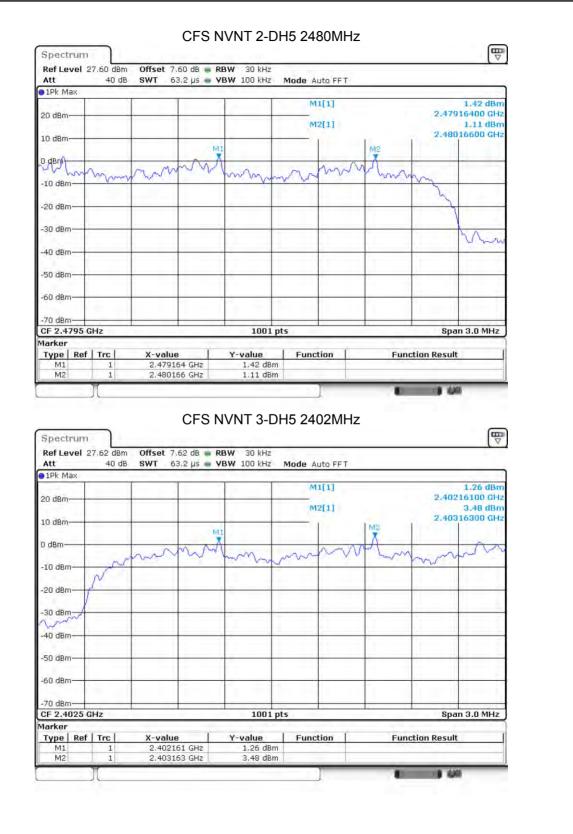








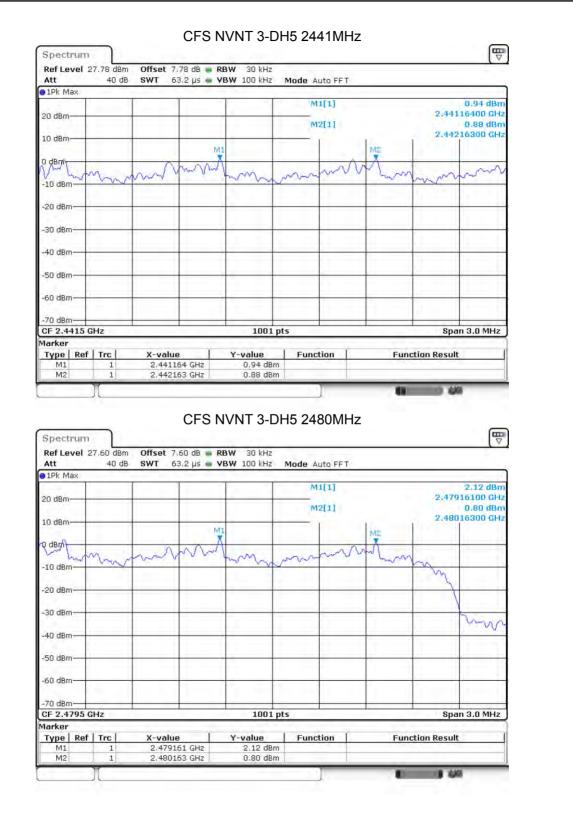




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8.5 NUMBER OF HOPPING CHANNEL

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	Hopping Number 79	15	Pass

Spectrum Ref Level 2		Offset 7.62	2 dB 📾	RBW 100 kHz			
Att	40 dB				Mode Auto Swe	eep	
SGL Count 5	5000/5000						
●1Pk Max	_	1		1 1	M1[1]		4,21
20 dBm					WILL		2.4018370
20 0011					M2[1]		8.62
1.01dBm	0.		0. 000 m 20		A	n A G A A A A A A A A	2.4802435
· ABMARAR	naannii	UTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	DADADI	ANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ARABANNAARAARA	UMANANANA	чилальвальний
O ddBm	HAHAHAH	MANANAN	HIMAN	UUMMUUMUU	1111111111111111111	VYVRDVVVVVV	WWWWWWWWW
TARATAAA	WATER	a a k a A a A a A a A a A	handed	shada. a a Adhi	AND	LAshers and	ANARARA AND COLL
-10 dBm	0						
-20 dBm							
-20 060							
-20 dBm							
-30 dBm							
-80 dBm							
-30 dBm							
-80 dBm							
-80 dBm							
-80 dBm							
-80 dBm	12			1001 pi	ts		Stop 2.4835 G
-80 dBm 40 dBm -50 dBm -60 dBm -70 dBm Start 2.4 GH Marker							
-80 dBm 40 dBm -50 dBm -60 dBm -70 dBm Start 2.4 GH Marker	4z	X-value 2.401837		1001 pr 1001 pr Y-value 4.21 d8m	ts	Fun	Stop 2.4835 G

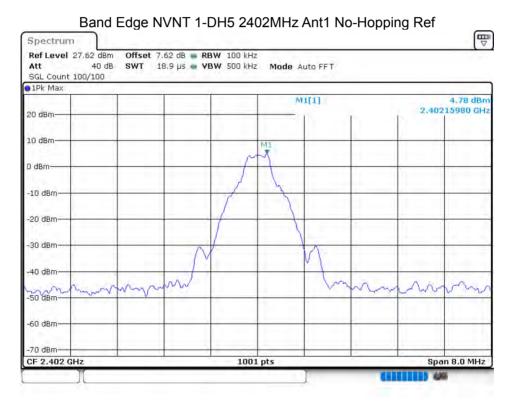
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8.6 BAND EDGE

0.0 DANDL							
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH5	2402	Ant 1	No-Hopping	-46.35	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-46.46	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-48.22	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-47.71	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-45.89	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-46.78	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-44.15	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-47.76	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-46.41	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-46.17	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-44.74	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-48.3	-20	Pass





20 dBm	
20 dBm 2.4020500 10 dBm 2.400000 0 dBm 2.400000 0 dBm 2.400000 -10 dBm -15.220 dBm -20 dBm -15.220 dBm -30 dBm -15.220 dBm -30 dBm -15.220 dBm -40 dBm -15.220 dBm -30 dBm -160 dBm -40 dBm -160 dBm -50 dBm -17.0 dBm -60 dBm -17.0 dBm -70 dBm -10.1 pts Start 2.306 GHz 1001 pts Start 2.306 GHz 1001 pts Start 2.306 GHz -17.0 dBm -80 dBm -17.0 dBm M2 1 2.4 GHz M2 1 2.4 GHz M2 1 2.3 GHz M3 1 2.3 GHz M4 1 2.3 GHz Start 2.306 GHz SWT 18.9 MS	
10 dBm M2[1] -45.9 0 dBm 2.4000000 -10 dBm -10 dBm -20 dBm -10 dBm -20 dBm -10 dBm -30 dBm -10 dBm -40 dBm -10 dBm -50 dBm -10 dBm -70 dBm -10 dBm M1 1 2.40205 GHz -45.7 dBm M2 1 2.39 GHz -47.60 dBm M3 1 2.39 GHz -47.60 dBm M3 1 2.3485 GHz -41.57 dBm M4 1 2.3485 GHz -41.57 dBm M4 1	7 dBm
0 dBm 0 dBm 0	1000
10 dBm D1 -15,220 dBm Image: constraint of the second	MGHz
D1 -15.220 dBm M4 -20 dBm	1
D1 -15.220 dBm M4 -20 dBm	
20 dBm M4 30 dBm M4 40 dBm M4 50 dBm M4 50 dBm M3 -70 dBm 1001 pts Stor 2.306 GHz 1001 pts M1 1 2.40205 GHz M1 1 2.40205 GHz M3 1 2.39 GHz M3 1 2.39 GHz M3 1 2.39 GHz M4 1 2.3485 GHz Spectrum SWT 18.9 µ5 w VBW 300 kHz Ref Level 27.62 dBm Offset 7.62 dB w RBW 100 kHz Att 40 dB SWT SQL count 8000/8000 18.9 µ5 w VBW 300 kHz M1[1] 2.4050050 1Pk Max 2.4050050	
40 dBm M4	
40 dBm M4	11
40 dBm	11
-50 dBm -60 dBm -60 dBm -70 dBm Start 2.306 GHz Type Ref Trc X-value Y-value Function Function Result M1 1 2.40205 GHz 4.57 dBm M2 1 2.4 GHz -45.97 dBm M3 1 2.39 GHz -47.60 dBm M4 1 2.3485 GHz -41.57 dBm M4 1 2.3485 GHz -41.57 dBm M5 CH2	
-60 dBm -70 dBm Stop 2.400 Start 2.306 GHz 1001 pts Stop 2.400 Aarker -70 dBm -70 dBm Function Result M1 1 2.40205 GHz 4.57 dBm Function Result M2 1 2.4 GHz -45.97 dBm Function Result M3 1 2.39 GHz -47.60 dBm	7 Wax
To dam Stor 2.306 GHz 1001 pts Stop 2.400 Narker Trc X-value Y-value Function Function Result M1 1 2.40205 GHz 4.57 dBm 1001 pts Stop 2.400 M2 1 2.4 GHz -45.97 dBm 1001 pts Function Result M2 1 2.4 GHz -45.97 dBm 1001 pts Function Result M3 1 2.39 GHz -47.60 dBm 1001 pts Function Result M4 1 2.3485 GHz -41.57 dBm 1001 pts Function Result Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref Spectrum Function Result Function Result Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Mit 1 Stop 2.4050050 Spectrum Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Mit 1 2.4050050 Pipk Max 20 dBm Mit 1 Stop 2.4050050 2.4050050	
Start 2.306 GHz 1001 pts Stop 2.400 Marker Y-value Function Function Result M1 1 2.40205 GHz 4.57 dBm Function Function Result M2 1 2.40205 GHz -45.97 dBm Function Function Result M3 1 2.39 GHz -47.60 dBm Function Function Result M4 1 2.3485 GHz -41.57 dBm Function Function Result Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref Spectrum Function Result Function Result Ref Level 27.52 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 Stop 2.4050050 FK Max 2.4050050 5.9	-
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.40205 GHz 4.57 dBm 1 </td <td>_</td>	_
Type Ref Trc X-value Y-value Function Function Result M1 1 2.40205 GHz 4.57 dBm 1 1.57 dBm 1 1.57 dBm 1 1.2.4 GHz -45.97 dBm 1 1.2.39 GHz -47.57 dBm 1 1.2.39 GHz -47.50 dBm 1 1.2.39 GHz -47.57 dBm 1 1.3.39 GHz -41.57 dBm 1 1.3.39 GHz -41.57 dBm 1 1.3.39 GHz -41.57 dBm 1 1 1 1.3.39 GHz -41.57 dBm 1 </td <td>GHz</td>	GHz
M1 1 2.40205 GHz 4.57 dBm M2 1 2.4 GHz -45.97 dBm M3 1 2.39 GHz -47.60 dBm M4 1 2.3485 GHz -41.57 dBm Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref Spectrum Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 M1[1] 5.9 20 dBm M1[1] 5.9 20 dBm M1[1] 5.9	
M2 1 2.4 GHz -45.97 dBm M3 1 2.39 GHz -47.60 dBm M4 1 2.3485 GHz -41.57 dBm Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref Spectrum Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 0 0 0 0 0 0 1Pk Max 20 dBm 0 0 0 0 0 0	_
M4 1 2.3485 GHz -41.57 dBm Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref Spectrum Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 Image: Count 8000/8000 MI[1] 5.9 20 dBm MI[1] 5.9	
MIL[1] 5.9 Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref Spectrum Ref Level 27.62 dB • RBW 100 kHz Att 40 dB SWT 18.9 µs • VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 1Pk Max MIL[1] 5.9 20 dBm MIL[1] 5.9	
Spectrum Ref Level 27.52 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz SGL Count 8000/8000 SWT 18.9 µs VBW 300 kHz Max	
Spectrum Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 IPk Max	-
Spectrum Ref Level 27.62 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz SGL Count 8000/8000 SWT 18.9 µs VBW 300 kHz IPk Max	
Ref Level 27.52 dBm Offset 7.62 dB RBW 100 kHz Att 40 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 0	
Att 40 dB SWT 18.9 µš VBW 300 kHz Mode Auto FFT SGL Count 8000/8000 91Pk Max 0 <td></td>	
SGL Count 8000/8000 IPk Max 20 dBm 20 dBm	B
01Pk Max 20 dBm-2.4050050	
20 dBm-	E
20 dBm 2.4050050	
20 08/0-	
10 dBm	7 dBm
TO ODIII. MT	7 dBm
	7 dBm
	7 dBm
	7 dBm
-10 dBm	7 dBm

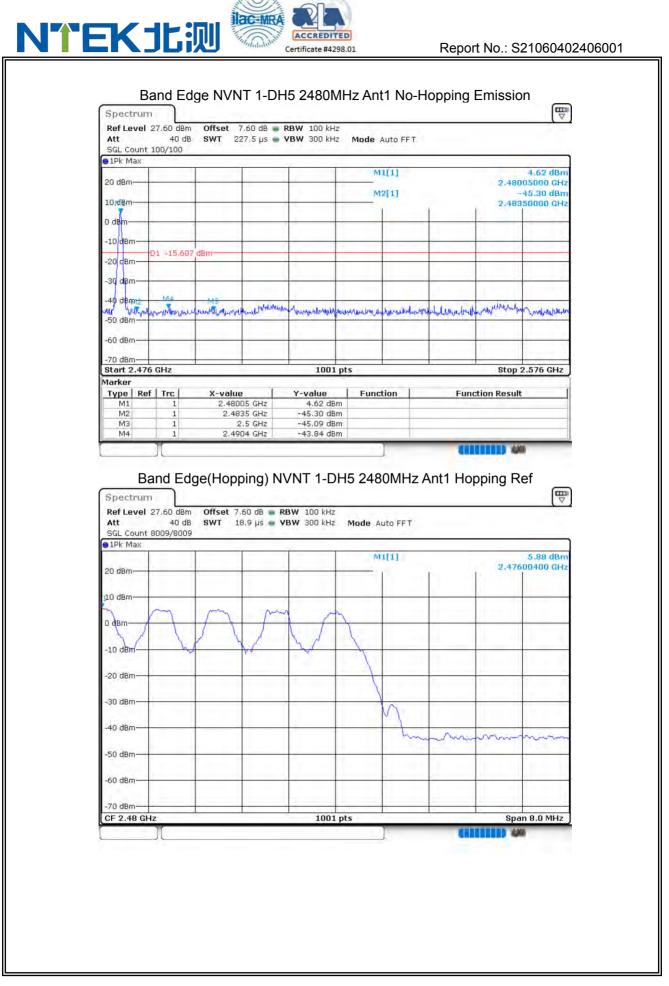
1001 pts

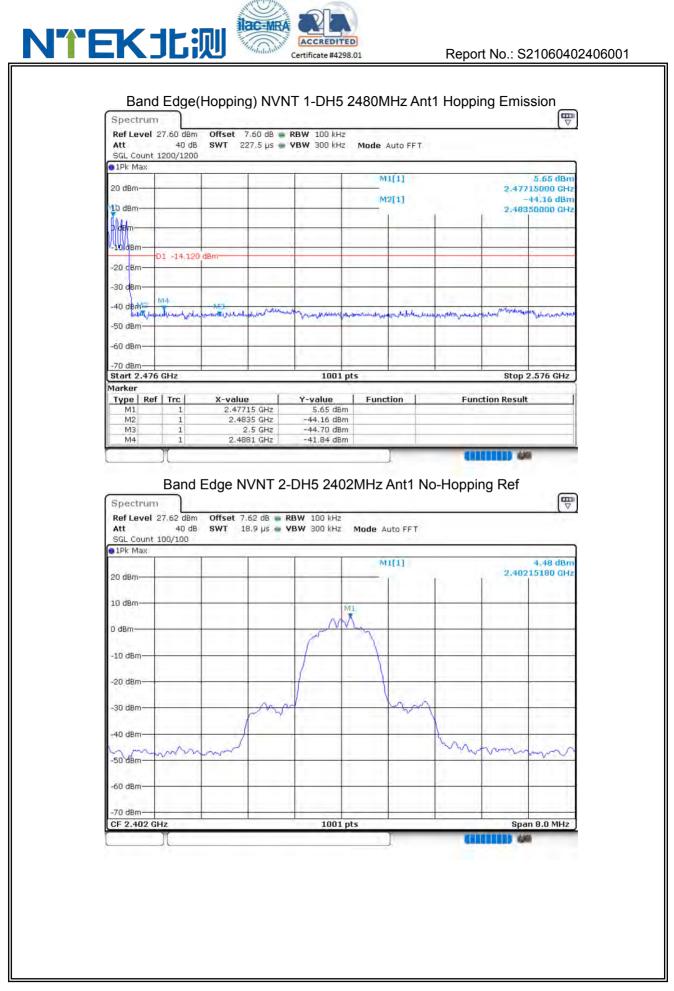
-20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz

Span 8.0 MHz



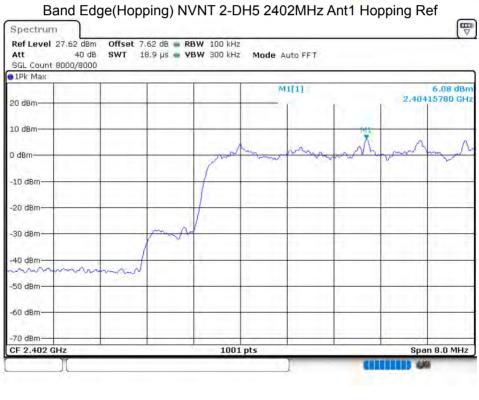
Spectrum									
Ref Level 2	-	Offset 7	.62 dB 🍙 I	RBW 100 kHz					
Att	40 dB	SWT 22	27.5 µs 🎃 🕯	VBW 300 kHz	Mode #	uto FFT			
SGL Count 1 1Pk Max	1200/1200		-						1
		1			M	1[1]			5.54 dBm
20 dBm		-		-					195000 GHz
10 dBm					M	2[1]			-44.05 dBm
						1 I		1	1111
0 dBm									l IIII
-10 dBm							-		<u>U</u> IV
-20 dBm-	01 -14.033	dBm							
				· · · · · · · · · · · · · · · · · · ·	1.1	1		1	
-30 dBm		-		100				1	
-40 dBm		1	hadred all the surger	M4		668		43	Ma
-50 dBm	lander of the Allows	ruchhalpenheith	harten annaper	and the and an and	monuting	restancements	ana Matura	and the second second	on water
-Ju ubm				·					
-60 dBm									
-70 dBm			-		-	1	1		
Start 2.306	GHz			1001	pts	-		Stop	2.406 GHz
Marker	1			A /	1				
Type Ref M1	Trc 1	X-value 2.4049	95 GHz	Y-value 5.54 dBn	Funct	tion	Fund	tion Result	
M2	1	2	.4 GHz	-44.05 dBn	n				
M3 M4	1	2.38	B7 GHz	-44.22 dBn					
IVI4	1 -	2,349	93 GHz	-40.49 dBn	n				
Spectrum)(Band			-40.49 dBn	- 23	Ant1 No	-Hoppin	ng Ref	
Spectrum	Band	Edge N	VNT 1-	DH5 248	- 23	Ant1 No	-Hoppii	ng Ref	
Spectrum Ref Level 2 Att	Band 1	Edge N'	VNT 1-		0MHz /		-Hoppii	ng Ref	
Spectrum Ref Level 2 Att SGL Count 1	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz	0MHz /		-Hoppin	ng Ref	
Spectrum Ref Level 2 Att	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz	OMHZ / Mode A	uto FF T	-Hoppin	ng Ref	
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz	OMHZ / Mode A		-Hoppin		4.39 dBm 101600 GHz
Spectrum Ref Level 2 Att SGL Count 1	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • IPk Max 20 dBm- 10 dBm- 0 dBm-	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 1Pk Max 20 dBm 10 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 PIPk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • IPk Max 20 dBm- 10 dBm- 0 dBm-	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 PIPk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 9 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 9 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 9 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Band 1	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ / Mode A	uto FF T	-Hoppin		4,39 dBm
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Band 27.60 dBm 40 dB 100/100	Edge N'	VNT 1-	DH5 248	OMHZ /	uto FF T	-Hoppin	2.480	4.39 dBm 101600 GHz
Spectrum Ref Level 2 Att SGL Count 1 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Band 27.60 dBm 40 dB 100/100	Edge N'	VNT 1-	DH5 248 BW 100 kHz BW 300 kHz	OMHZ /	uto FF T	-Hoppin	2.480	4,39 dBm







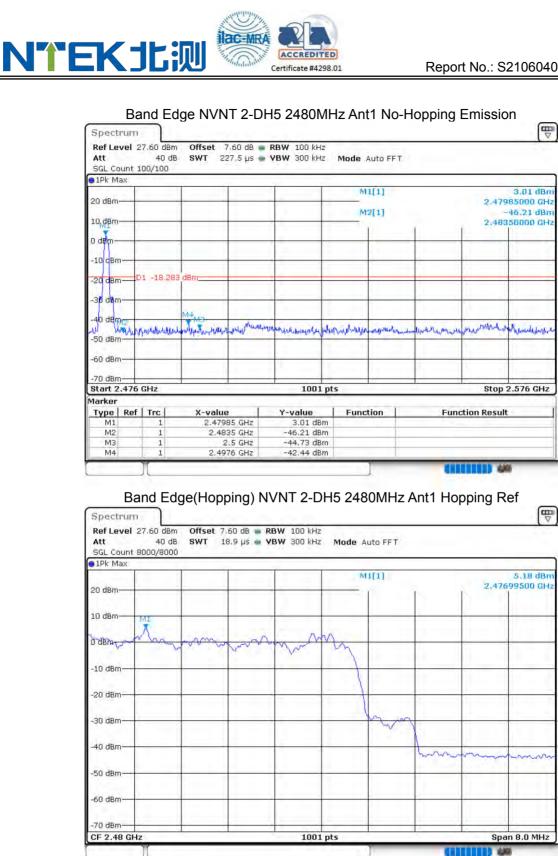
Ref Le Att SGL Co		7.62 dBn 40 dB 00/100		 RBW VBW 		Mode 4	uto FFT.				V
D1Pk M	эх	1.1.1									
20 dBm 10 dBm						_	L[1] 2[1]			4.60 di 185000 G -43.36 di 0000001G	Hz 3m
0 dBm-		_					_		2.10	I A	
-10 dBn		1 -15.52	2 dBm		-			-			
-20 dBn		1 -14/42									
-30 dBn				N	14				1	MP	t
-40 dBn	LA MALA	al defut the provision	unalle manual and highly	withhurstoni	Antonia	Multingu	unnerticitat	Madundnyymaa	appendiculation		Le li
-60 dBn	-				_			-			
-70 dBn					_						1
Start 2		GHz			1001 pt	s		-	Stop	2.406 GF	łz
Marker					6	- 1 m	1.00		1.1.1.1.		
Type M1	Ref	Trc 1	2.40185 GHz		alue .60 dBm	Funct	ion	Fun	ction Resul	t	_
M2		1	2.40105 GHz 2.4 GHz		.36 dBm						
M3		1	2.39 GHz		.33 dBm		1				
141-2											



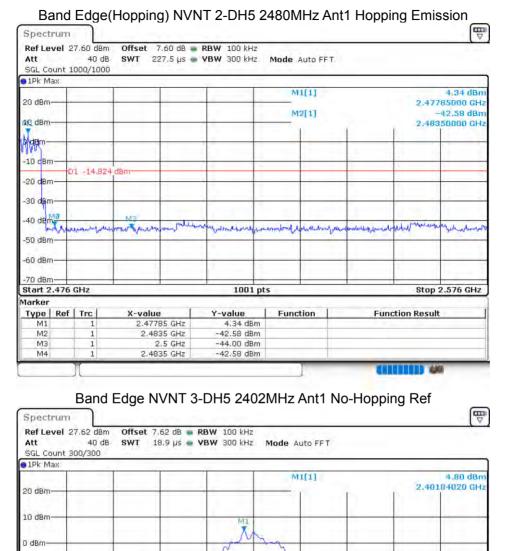


Spectrum					
Ref Level 27.62 dB Att 40 c	B SWT 227.5	dB 🗰 RBW 100 kHz µs 👜 VBW 300 kHz	Mode Auto FFT		
SGL Count 1200/120 1Pk Max	00		1000 - 103 ()		
	1		M1[1]		6.08 d
20 dBm					2.40415000
10 dBm-			M2[1]		-45.45 d
0 dBm					
	1 I I				
-10 dBm-01 -13.9	25 dBm			-	
-20 dBm-					
-30 dBm					
-40 dBm-		M4			
hand have shaped and	enough the color	and the second and the second	and the second second of the	bomenon you will be	MS MS
-50 dBm-					
-60 dBm					
-70 dBm-				-	
Start 2.306 GHz		1001 p	ots		Stop 2.406 G
Marker Type Ref Trc	X-value	Y-value	Function	Functi	on Result
M1 1	2.40415 G				
M2 1	2.4 G	Hz -45.45 dBm	5		
M3 1	2.39 G	terrest and the second s	8		
M4 1	2.39 G 2.3429 G	GHz -45.26 dBm		o-Hopping	g Ref
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 d	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	-45.26 dBm GHz -40.70 dBm	0MHz Ant1 N	o-Hopping	g Ref
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 d SGL Count 100/100	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	HZ -45.26 dBm HZ -40.70 dBm	0MHz Ant1 N	o-Hopping	g Ref
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 d	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	HZ -45.26 dBm HZ -40.70 dBm	0MHz Ant1 N	o-Hopping	g Ref
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 d SGL Count 100/100	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	HZ -45.26 dBm HZ -40.70 dBm	OMHz Ant1 N Mode Auto FFT	o-Hopping	
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 c SGL Count 100/100 1Pk Max	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	HZ -45.26 dBm HZ -40.70 dBm	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 c SGL Count 100/100 1Pk Max	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum Bane Ref Level 27.50 dB 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	HZ -45.26 dBm HZ -40.70 dBm	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum Ref Level 27.60 dB Att 40 c SGL Count 100/100 1Pk Max 20 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum Bane Ref Level 27.50 dB 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum Bane Ref Level 27.50 dB Att 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm 10 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum Bane Ref Level 27.50 dB 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm 10 dBm 0 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum RefLevel 27.60 dB Att 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Band Spectrum Band Ref Level 27.60 dB 40 c SGL Count 100/100 100 dBm 10 dBm 0 -10 dBm -10 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum RefLevel 27.60 dB Att 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 d SGL Count 100/100 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Bane Spectrum Ref Level 27.60 dB Att SGL Count 100/100 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Ref Level 27.60 dB Att 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Band Spectrum Ref Level 27.60 dB Att 40 d SGL Count 100/100 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N Mode Auto FFT	o-Hopping	1,72 d
M4 1 Ref Level 27.60 dB Att 40 c SGL Count 100/100 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2.39 G 2.3429 G d Edge NVN m Offset 7.60 c	Hz -45.26 dBm -40.70 dBm NT 2-DH5 248(dB RBW 100 kHz us YBW 300 kHz	OMHz Ant1 N	o-Hopping	1,72 d









1001 pts

mm

Span 8.0 MHz

Version.1.3

-10 dBm -20 dBm -30 dBm -40 dBm

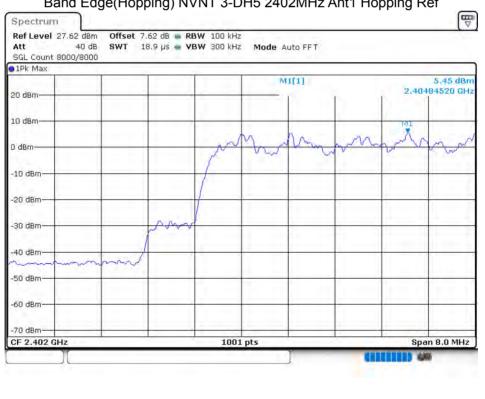
-50 dBm

-60 dBm -70 dBm

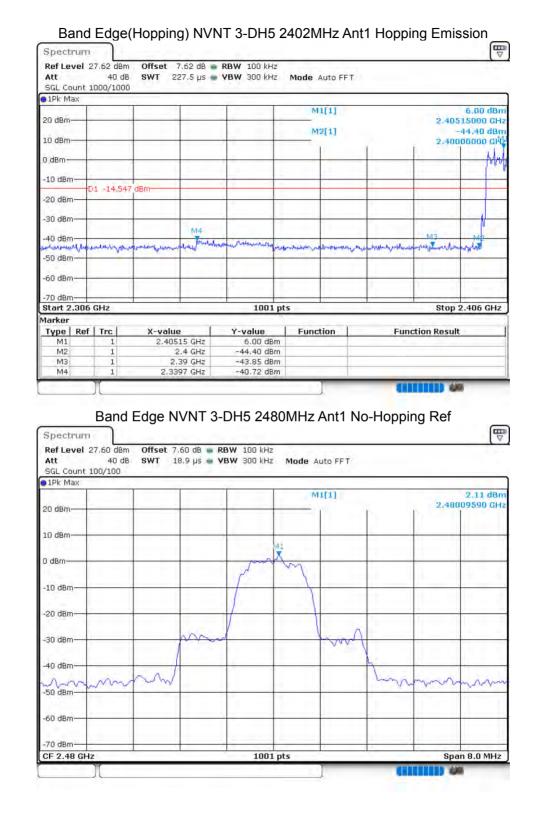
CF 2.402 GHz

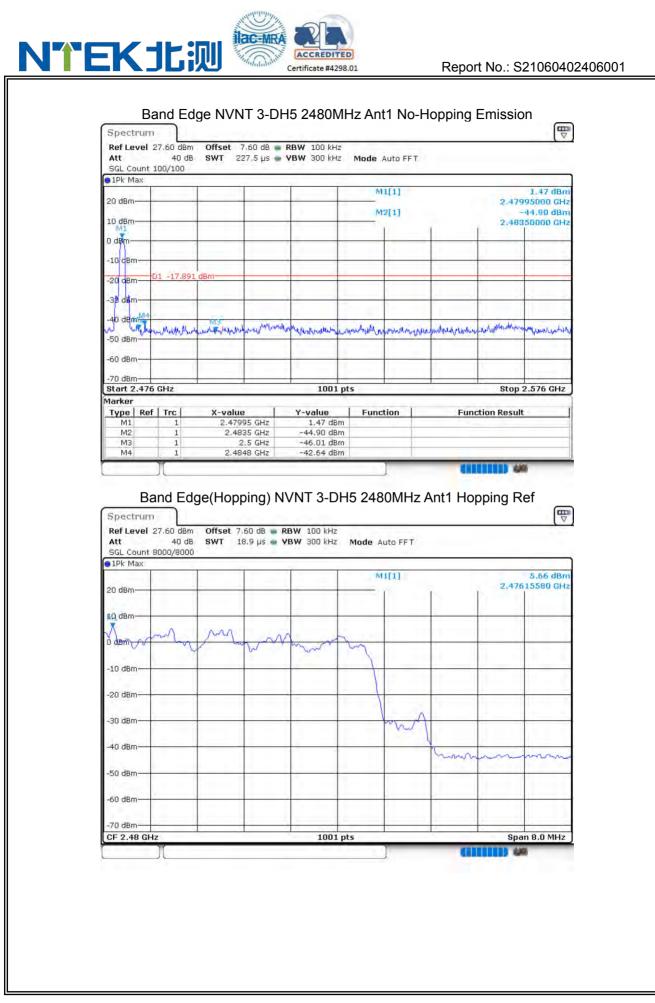


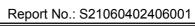
Ref Level 2 Att SGL Count 1	40 dE		 RBW 100 kHz VBW 300 kHz 	Mode Au	uto FFT.			
1Pk Max		1	1 1				_	
20 dBm			-	M1	[1]		2 40	4,45 dBm 185000 GHz
20 0011				M2	ni -			-45.29 dBm
10 dBm			-					0000001GHz
								T T
0 dBm		-						1 A
-10 dBm						_		
	1 -15.19	G dBm				1	1	
-20 dBm-	1 -10/15	2 Mpm				-		
-30 dBm						-		r y
-40 dBm			V14				1	1 an 13
-40 UBIN	while a	and a management of the second	an and man all many but	In Same	and and	and a second	MB	Line 4.
-50 dBm-+-	he was harden	and after authorite and the state	100 m 0 1 000	and the It. A che	Am a kin A Alar	a reation Cherrorithy	all diversion of	nauthe of
-60 dBm								
		· · · · · · · · · · · · · · · · · · ·					to serve a	
-70 dBm	CLIP		1001 p				Otam	2.406 GHz
larker	GHZ		1001 p	is			stup	2.400 GHZ
	Trc	X-value	Y-value	Functi	an I	Euro	tion Resul	+ 1
Type Ref M1	1	2.40185 GHz	4.45 dBm	Funcu	Un	Fura	alon Resul	
M2	1	2.4 GHz	-45.29 dBm	-				
M3	1	2.39 GHz	-46.10 dBm					
M4	1	2.3432 GHz	-41.61 dBm					
M4	1	2.3432 GHz	-41.61 dBm					











NTEK北 测	Certificate #4298.01

					Certificate #4298.01			Report No.: S2106040			
Spect Ref Le Att	rum vel 2	7.60 dB 40 d	m Offset IB SWT :	7.60 dB 🖷	NT 3-DH5 2 RBW 100 kHz YBW 300 kHz	2480MHz Mode Auto F		lopping	I Emis	sion	
SGL Co		000/100	0	1							
LPK W	an	The second second	1	1	T I	M1[1]	-			4.64 dBm	
20 dBm	-			-	-				2.47715000 GHz ~44.68 dBm		
					1.1	M2[1]					
10 dBm	-						1	Ĩ	2,483	50000 GHz	
Ridem-	-			-	-						
2.2					1		10.0		1.1	1.222.41	
-10 cBn		1 -14.3	as dam		S						
-20 aBn		T. T. J.	agui								
										1.111.1	
-30 dBn	n										
-40 dBn	12	M4	MB								
lu all	There	interesting for	representation	un marken	and a second and a	account when the	Region pal	oblandadar	Joseph Maran	hughwardtautente	
-50 dBn	0										
co Jo-									[]		
-60 dBn	-										
-70 dBn	n			-	_						
Start 2	.476	GHz		2	1001 p	ts			Stop 2	2.576 GHz	
Marker	1.1.					- 1. a					
Type	Ref		X-valı		Y-value	Function	-	Functio	n Result		
M1		1	2.47715 GHz		4.64 dBm		-				
M2 M3	1	1	2.4835 GHz 2.5 GHz		-44.68 dBm -43.42 dBm		-				
M4	-	1	2.4901 GHz		-42.64 dBm		1				
-	-	11				7		-	-		
1.00		1						GIUGU			

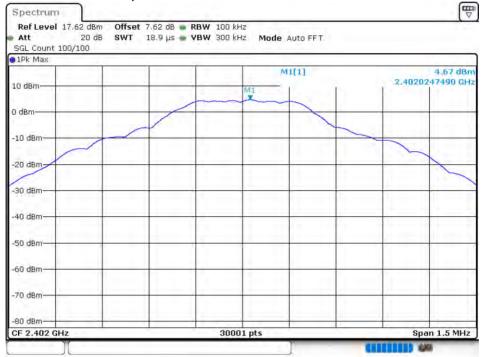


8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-55.76	-20	Pass
NVNT	1-DH5	2441	Ant 1	-54.2	-20	Pass
NVNT	1-DH5	2480	Ant 1	-50.23	-20	Pass
NVNT	2-DH5	2402	Ant 1	-45.93	-20	Pass
NVNT	2-DH5	2441	Ant 1	-54.64	-20	Pass
NVNT	2-DH5	2480	Ant 1	-51.07	-20	Pass
NVNT	3-DH5	2402	Ant 1	-44.83	-20	Pass
NVNT	3-DH5	2441	Ant 1	-46.6	-20	Pass
NVNT	3-DH5	2480	Ant 1	-47.62	-20	Pass

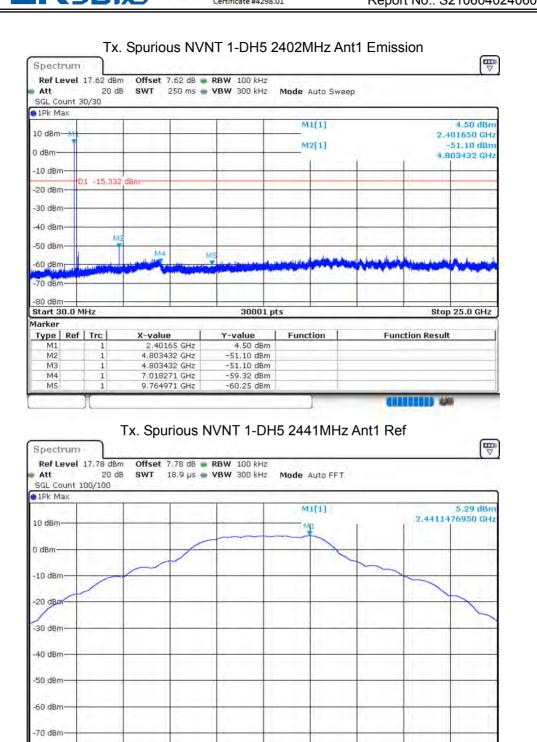
ACCREDITED

Certificate #4298.01



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref





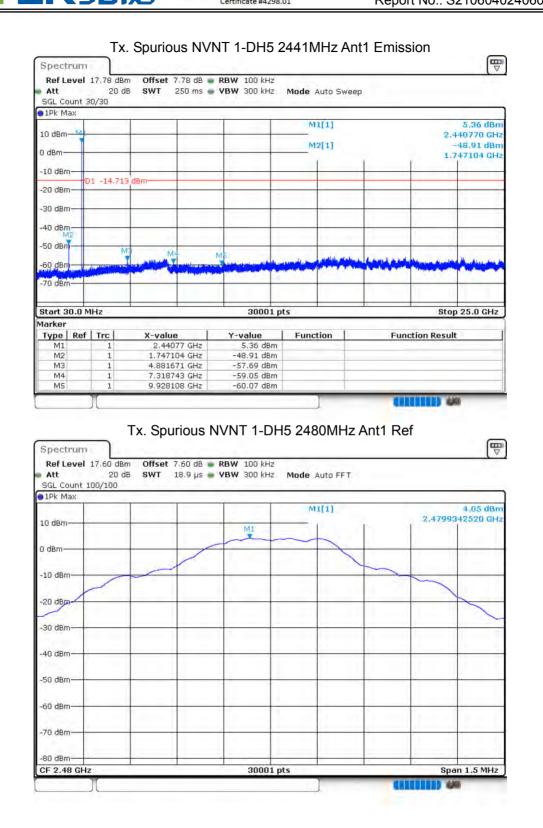
30001 pts

-80 dBm-

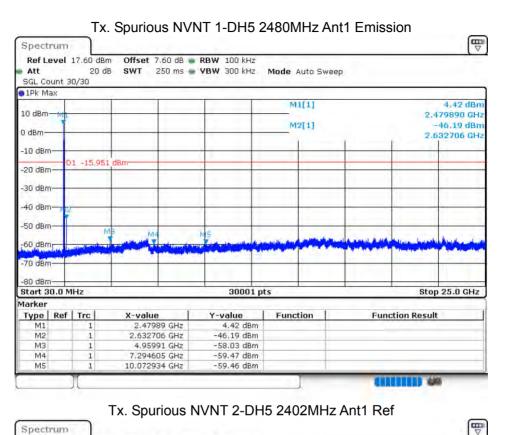
CF 2.441 GHz

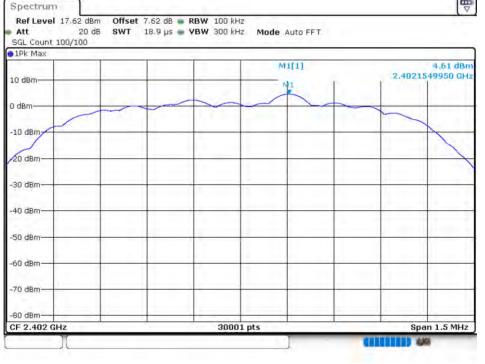
Span 1.5 MHz



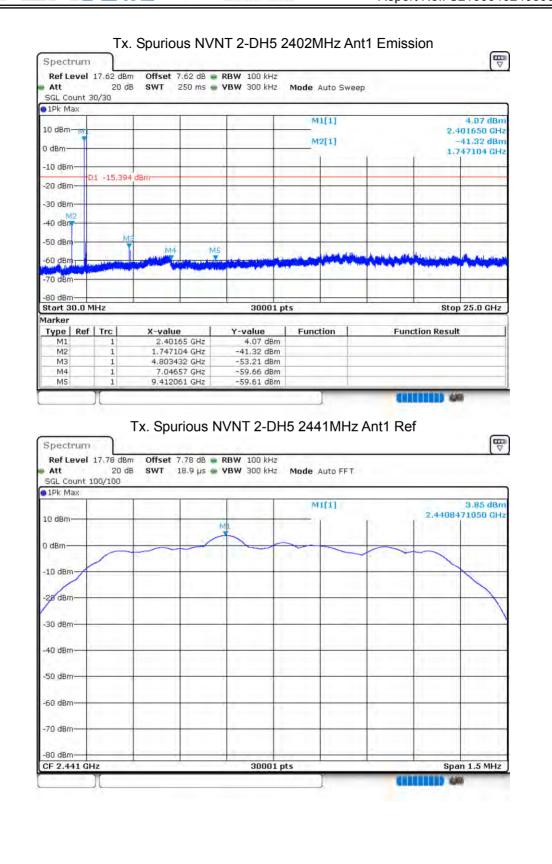




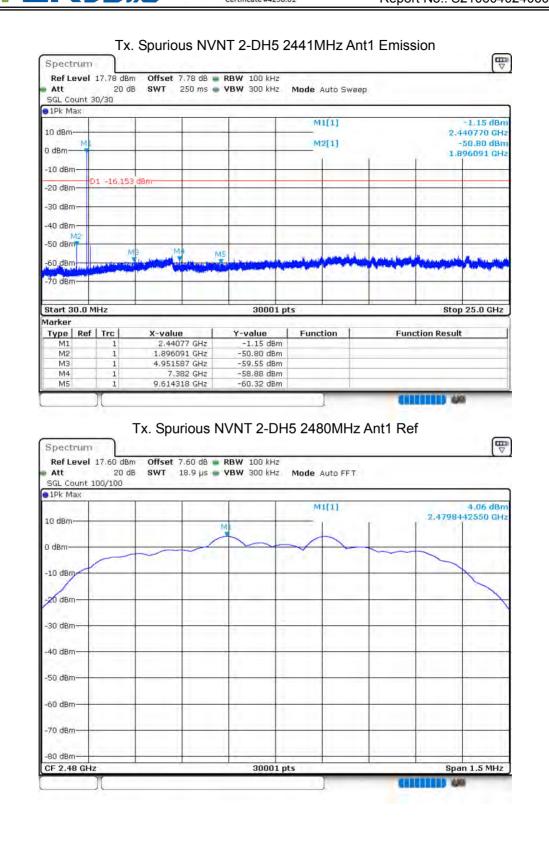




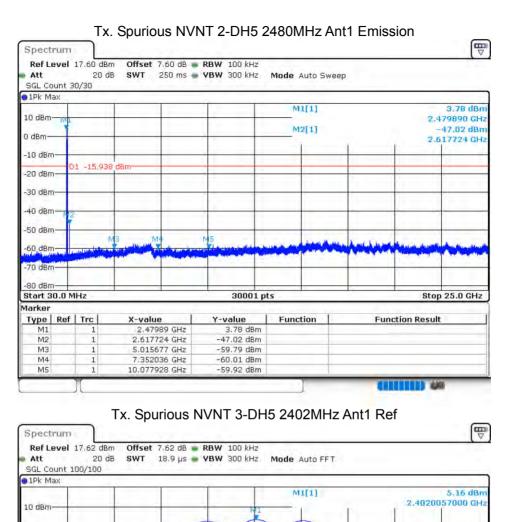






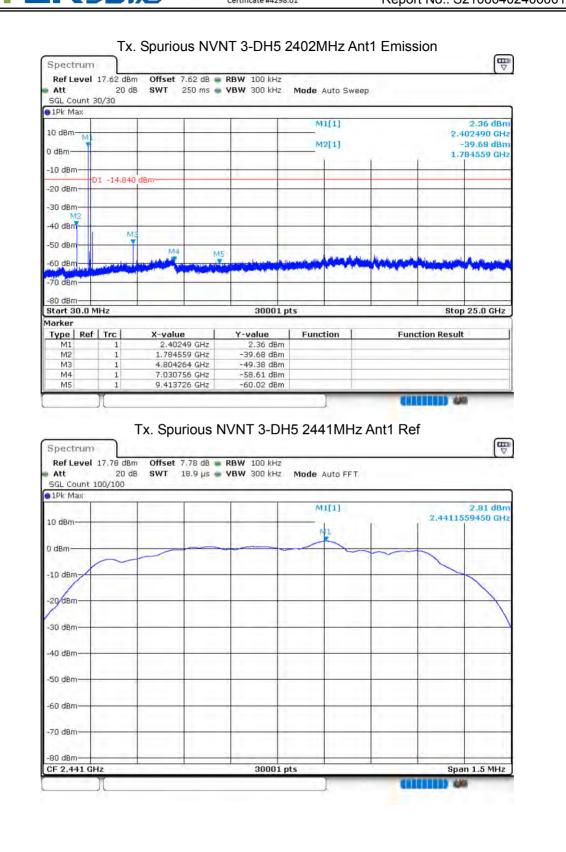




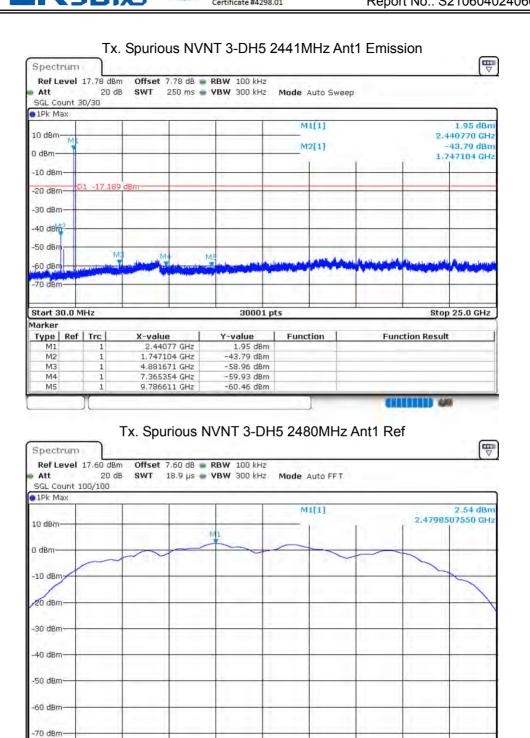












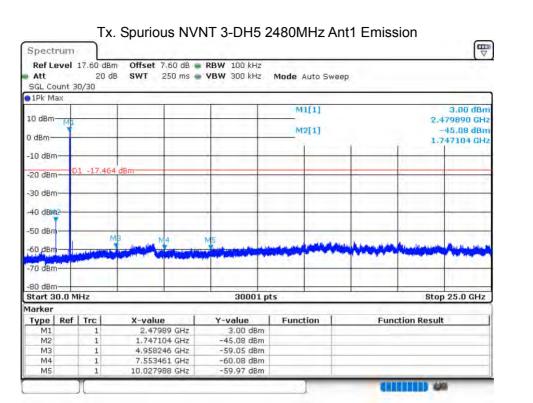
30001 pts

-80 dBm-

CF 2.48 GHz

Span 1.5 MHz





END OF REPORT