



RADIO TEST REPORT FCC ID: 2A27O-IDN08

Product: Mini PC Trade Mark: Azeyou Model No.: IDN08-N100 iAN08P, iAN09P, iAN10P, iAN11P, Family Model: iAN12P, iAN13P, iAN14P, iAN15P, iAN16P, iAN17P, iAN19P, iAN20P Report No.: S24101203202001 Issue Date: Nov. 01, 2024

Prepared for

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Prepared by

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1 TEST RESULT CERTIFICATION

Γ	
Applicant's name:	Dongguan Lianzhou Electronic Technology Co., Ltd.
Address:	Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town,
	DongGuan City, GuangDong Province.
Manufacturer's Name:	Dongguan Lianzhou Electronic Technology Co., Ltd.
Address:	Building 1, No. 10, Feng Gang Technology Road, Feng Gang Town,
	DongGuan City, GuangDong Province.
Product description	
Product name:	Mini PC
Trade Mark:	Azeyou
Model and/or type reference:	IDN08-N100
Family Model:	iAN08P, iAN09P, iAN10P, iAN11P, iAN12P, iAN13P, iAN14P, iAN15P, iAN16P, iAN17P, iAN19P, iAN20P
Test Sample Number	S241012032003
Date (s) of performance of tests	Oct. 12, 2024 ~ Nov. 01, 2024

Certificate #4298.01

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	TEST RESULT 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.

Prepared : Gavan Zhang Reviewed : Aaron Cheng Approved : By : Aaron Cheng By : Alex Li (Project Engineer) (Supervisor) (Manager)



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:

 "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, Xixiang, Bao'an 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
	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, PSD	±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 Channel Bandwidth	±3.7dB





4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Mini PC		
Trade Mark	Azeyou		
FCC ID	2A27O-IDN08		
Model No.	IDN08-N100		
Family Model	iAN08P, iAN09P, iAN10P, iAN11P, iAN12P, iAN13P, iAN14P, iAN15P, iAN16P, iAN17P, iAN19P, iAN20P		
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	PIFA antenna		
Antenna Gain	3.36 dBi		
Adapter	Model: BSY036A120300U W Input: 100-240V~, 50/60Hz, 1.0A, Max. Output: 12.0V3.0A 36.0W		
Battery	N/A		
Rating(s)	DC 12V from adapter		
HW Version	EM_IDN08_V2.0		
SW Version	WINDOWS 11		

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				
Report No.	Version	Description	Issued Date	
S24101203202001	Rev.01	Initial issue of report	Nov. 01, 2024	



5 DESCRIPTION OF TEST MODES

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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	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 3Mbps 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.

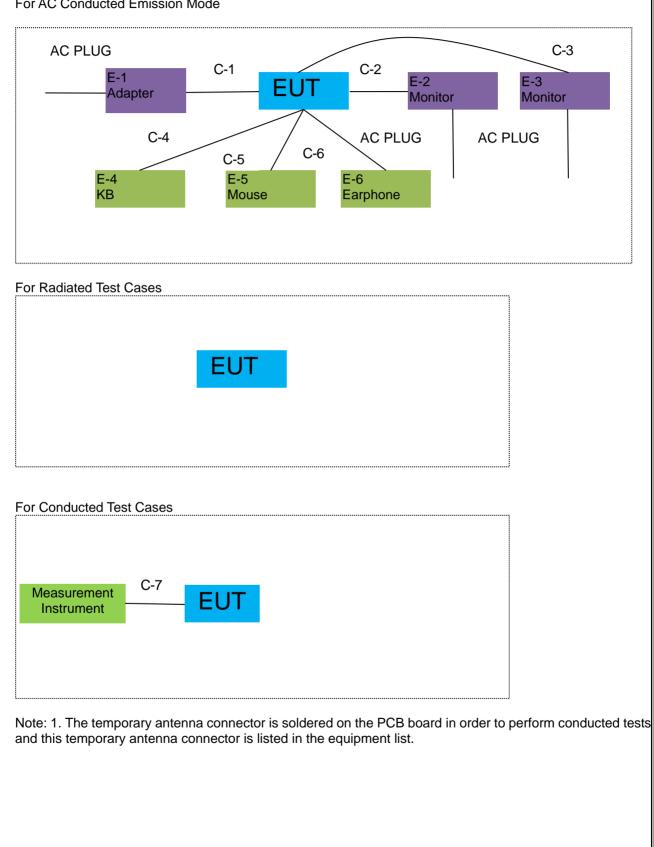




SETUP OF EQUIPMENT UNDER TEST 6

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For AC Conducted Emission Mode





Certificate #4298.01

6.2 SUPPORT EQUIPMENT

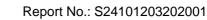
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	BSY036A120300U W	N/A	Peripherals
AE-2	Monitor	N/A	N/A	Peripherals
AE-3	Monitor	N/A	N/A	Peripherals
AE-4	KB	N/A	N/A	Peripherals
AE-5	Mouse	N/A	N/A	Peripherals
AE-6	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.0m
C-2	HDMI Cable	YES	YES	1.0m
C-3	HDMI Cable	YES	YES	1.0m
C-4	USB Cable	NO	NO	1.2m
C-5	USB Cable	NO	NO	1.2m
C-6	Earphone Cable	NO	NO	1.2m
C-7	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".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

ilac-

ACCREDITED Certificate #4298.01

Radiation& Conducted Test equipment

(aulatic		estequipment					
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	2025.05.11	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 084	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





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.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

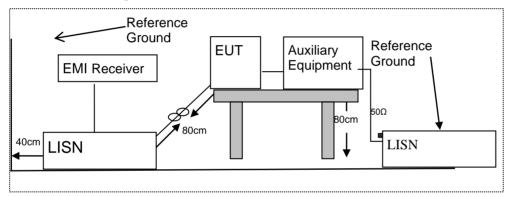
7.1.2 Conformance Limit

	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

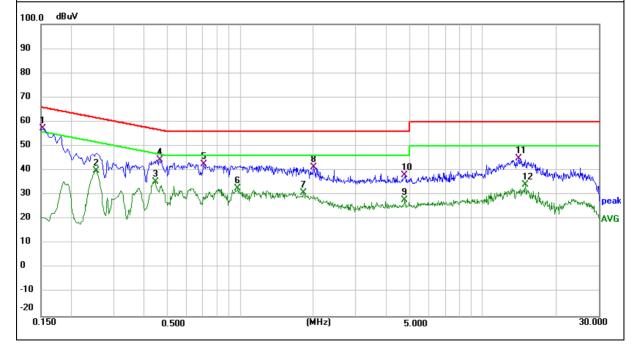
EUT:	Mini PC	Model Name :	IDN08-N100
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	47.17	10.00	57.17	65.79	-8.62	QP
0.2540	29.79	10.19	39.98	51.63	-11.65	AVG
0.4460	24.81	10.59	35.40	46.95	-11.55	AVG
0.4660	33.62	10.63	44.25	56.58	-12.33	QP
0.7060	31.39	11.13	42.52	56.00	-13.48	QP
0.9740	20.88	11.67	32.55	46.00	-13.45	AVG
1.8220	17.49	13.44	30.93	46.00	-15.07	AVG
2.0020	31.68	9.81	41.49	56.00	-14.51	QP
4.7618	17.88	10.07	27.95	46.00	-18.05	AVG
4.7857	28.04	10.08	38.12	56.00	-17.88	QP
14.0175	33.19	11.65	44.84	60.00	-15.16	QP
14.9700	22.27	11.83	34.10	50.00	-15.90	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.







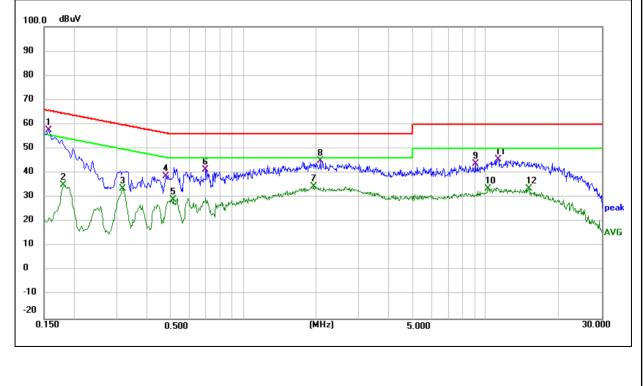
EUT:	Mini PC	Model Name :	IDN08-N100
Temperature:	25 ℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 12V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	48.09	9.45	57.54	65.57	-8.03	QP
0.1819	25.62	9.48	35.10	54.40	-19.30	AVG
0.3180	23.78	9.73	33.51	49.76	-16.25	AVG
0.4780	28.82	9.95	38.77	56.37	-17.60	QP
0.5140	19.03	9.99	29.02	46.00	-16.98	AVG
0.6980	31.04	10.38	41.42	56.00	-14.58	QP
1.9420	21.40	12.94	34.34	46.00	-11.66	AVG
2.0700	35.79	9.06	44.85	56.00	-11.15	QP
9.0175	33.98	9.92	43.90	60.00	-16.10	QP
10.1897	33.50	-0.07	33.43	50.00	-16.57	AVG
11.2140	46.48	-0.90	45.58	60.00	-14.42	QP
15.0937	22.58	11.07	33.65	50.00	-16.35	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 art10.20	According to FOC Fait 13.203, 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)

Froguopov(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)

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

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

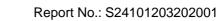
Limit line=Specific limits(dBuV) + distance extrapolation factor.

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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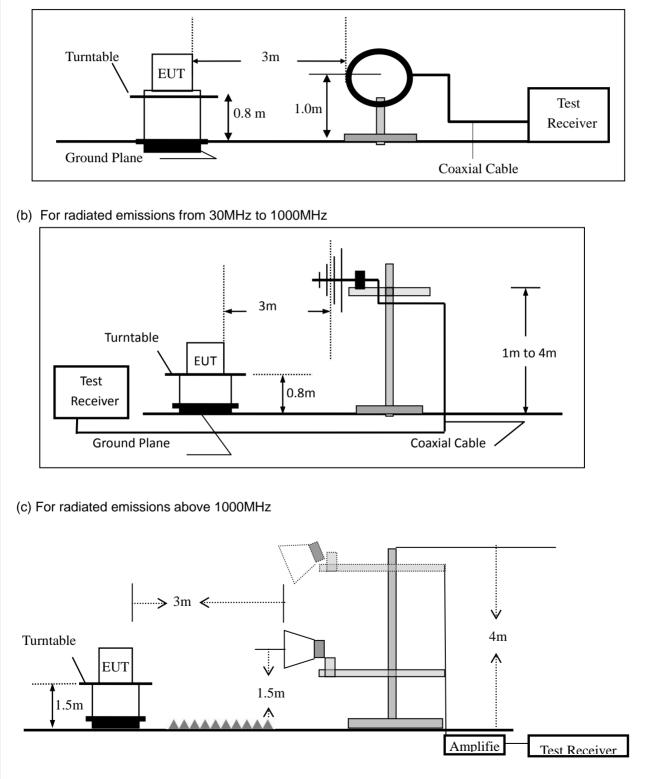
7.2.3 Measuring Instruments

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

Certificate #4298.01

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.

Certificate #4298.01

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





During the radiated emission to	est, the Spectrum An	alyzer was set with the follow	ving configurations:
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	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:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(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.





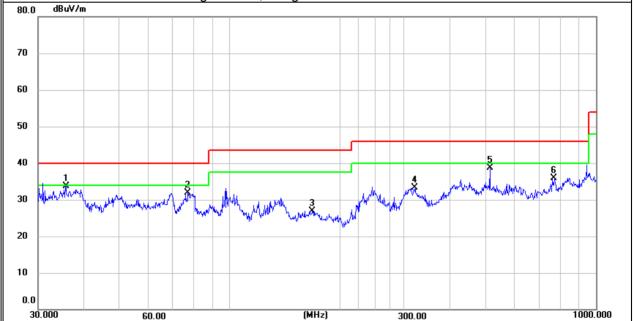
 Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:
 EUT: Mini PC Model Name : IDN08-N100
 Temperature: 25°C Relative Humidity: 55%
 Pressure: 1010hPa Test Mode: Mode 4

		Motor	Emission	
lest voltage :		. v		
Test Voltage :	DC 12	N/		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	, , ,	
V	35.7490	15.96	17.73	33.69	40.00	-6.31	QP QP QP QP QP QP
V	77.0502	17.11	14.85	31.96	40.00	-8.04	QP
V	168.4137	11.85	15.05	26.90	43.50	-16.60	QP
V	321.0605	13.14	20.07	33.21	46.00	-12.79	QP
V	513.6331	14.38	24.31	38.69	46.00	-7.31	QP
V	771.4482	7.19	28.74	35.93	46.00	-10.07	QP

Remark:

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







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
Н	77.0502	16.03	14.85	30.88	40.00	-9.12	QP	
Н	154.8204	18.96	14.67	33.63	43.50	-9.87	QP	
Н	257.4221	12.21	19.00	31.21	46.00	-14.79	QP	
Н	308.9125	15.80	20.09	35.89	46.00	-10.11	QP	
Н	428.0192	13.59	22.89	36.48	46.00	-9.52	QP	
Н	848.0561	9.36	29.88	39.24	46.00	-6.76	QP	
	n Level= Meter F dBuV/m	Reading+ Fac	tor, Margin=	= Emission Lev	vel - Limit			
70								
60								
50								
40			2 X		Jummen Mrs	Marthe mother	6 North	
30	munderenderenderender	man him h	in amurally the	man and a start	And the second second second	v va osupinijan		
20	AMUNIA CONTRACTOR	Data adata APAL A Ab	. AMARIN .					
10								
0.0 30.000	0 00.				200.00		1000.000	
30.000	0 60.1	UU	U U	Hz)	300.00		1000.000	





	-		GHz (1GH		,						
EUT:	Min	i PC		Mode	el No.:	II	DN08	-N100			
Temperature:	20	Ĉ		Relat	ive Humidity	/: 4	48%				
Test Mode:	Мо	de2/Mod	e3/Mode4	Test	By:	Ģ	Gavan	n Zhang			
All the modula	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	Lim	nits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)			
			Low Chann	el (2402 N	Hz) (8-DPSK	()Abov	ve 1G				
4804	69.3	5.21	35.59	44.30	65.80	74.	00	-8.20	Pk	Vertical	
4804	45.31	5.21	35.59	44.30	41.81	54.	00	-12.19	AV	Vertical	
7206	69.35	6.48	36.27	44.60	67.50	74.	00	-6.50	Pk	Vertical	
7206	47.67	6.48	36.27	44.60	45.82	54.	00	-8.18	AV	Vertical	
4804	69.76	5.21	35.55	44.30	66.22	74.	00	-7.78	Pk	Horizontal	
4804	50.03	5.21	35.55	44.30	46.49	54.	00	-7.51	AV	Horizontal	
7206	69.54	6.48	36.27	44.52	67.77	74.	00	-6.23	Pk	Horizontal	
7206	45.14	6.48	36.27	44.52	43.37	54.	00	-10.63	AV	Horizontal	
			Mid Chann	el (2441 M	Hz)(8-DPSK)Abov	/e 1G				
4882	70.77	5.21	35.66	44.20	67.44	74.	00	-6.56	Pk	Vertical	
4882	46.59	5.21	35.66	44.20	43.26	54.	00	-10.74	AV	Vertical	
7323	68.61	7.10	36.50	44.43	67.78	74.	00	-6.22	Pk	Vertical	
7323	45.23	7.10	36.50	44.43	44.40	54.	00	-9.60	AV	Vertical	
4882	68.73	5.21	35.66	44.20	65.40	74.	00	-8.60	Pk	Horizontal	
4882	50.43	5.21	35.66	44.20	47.10	54.	00	-6.90	AV	Horizontal	
7323	69.2	7.10	36.50	44.43	68.37	74.	00	-5.63	Pk	Horizontal	
7323	48.51	7.10	36.50	44.43	47.68	54.	00	-6.32	AV	Horizontal	
			High Chann	el (2480 N	Hz)(8-DPSK	í) Abo	ve 1G	i			
4960	68.01	5.21	35.52	44.21	64.53	74.	00	-9.47	Pk	Vertical	
4960	49.52	5.21	35.52	44.21	46.04	54.	00	-7.96	AV	Vertical	
7440	70.35	7.10	36.53	44.60	69.38	74.	00	-4.62	Pk	Vertical	
7440	45.36	7.10	36.53	44.60	44.39	54.	00	-9.61	AV	Vertical	
4960	70.44	5.21	35.52	44.21	66.96	74.	00	-7.04	Pk	Horizontal	
4960	45.64	5.21	35.52	44.21	42.16	54.	00	-11.84	AV	Horizontal	
7440	68.92	7.10	36.53	44.60	67.95	74.	00	-6.05	Pk	Horizontal	
7440	48.99	7.10	36.53	44.60	48.02	54.	00	-5.98	AV	Horizontal	

Note:

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





	s Emission i	n Restri	cted Band		90MHz and	2483.	5-25	00MHz			
EUT:	Mini PC			Moc	el No.:		IDN08-N100				
Temperature	e: 20 ℃			Rela	ative Humidi	ty:	48%				
Test Mode:	Mode2/ M	/lode4		Test	: By:		Gava	an Zhang			
All the mod	ulation mod	es have	been test	ed, and t	he worst res	sult wa	is rep	ort as be	low:		
Frequency	/ Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	its	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре		
	3Mbps(8-DPSK)-Non-hopping										
2310.00											
2310.00	48.91	2.97	27.80	43.80	35.88	54	4	-18.12	AV	Horizontal	
2310.00	70.44	2.97	27.80	43.80	57.41	74	4	-16.59	Pk	Vertical	
2310.00	49.88	2.97	27.80	43.80	36.85	54	4	-17.15	AV	Vertical	
2390.00	70.75	3.14	27.21	43.80	57.30	74	4	-16.70	Pk	Vertical	
2390.00	47.46	3.14	27.21	43.80	34.01	54	4	-19.99	AV	Vertical	
2390.00	69.86	3.14	27.21	43.80 56.41 74		4	-17.59	Pk	Horizontal		
2390.00	49.37	3.14	27.21	43.80	35.92 54		4	-18.08	AV	Horizontal	
2483.50	68.13	3.58	27.70	44.00	55.41	74	4	-18.59	Pk	Vertical	
2483.50	49.39	3.58	27.70	44.00	36.67	54	4	-17.33	AV	Vertical	
2483.50	70.10	3.58	27.70	44.00	57.38	74	4	-16.62	Pk	Horizontal	
2483.50	48.24	3.58	27.70	44.00	35.52	54	4	-18.48	AV	Horizontal	
				3Mbps(8-	DPSK)-hopp	ing					
2310.00	70.32	2.97	27.80	43.80	57.29	74	4	-16.71	Pk	Horizontal	
2310.00	48.67	2.97	27.80	43.80	35.64	54	4	-18.36	AV	Horizontal	
2310.00	70.71	2.97	27.80	43.80	57.68	74	4	-16.32	Pk	Vertical	
2310.00	48.55	2.97	27.80	43.80	35.52	54	4	-18.48	AV	Vertical	
2390.00	69.64	3.14	27.21	43.80	56.19	74	4	-17.81	Pk	Vertical	
2390.00	46.76	3.14	27.21	43.80	33.31	54	4	-20.69	AV	Vertical	
2390.00	70.25	3.14	27.21	43.80	56.80	74	4	-17.20	Pk	Horizontal	
2390.00	47.56	3.14	27.21	43.80	34.11	54	4	-19.89	AV	Horizontal	
2483.50	69.68	3.58	27.70	44.00	56.96	74	4	-17.04	Pk	Vertical	
2483.50	46.81	3.58	27.70	44.00	34.09	54	4	-19.91	AV	Vertical	
2483.50	69.18	3.58	27.70	44.00	56.46	74	4	-17.54	Pk	Horizontal	
2483.50	45.15	3.58	27.70	44.00	32.43	54	4	-21.57	AV	Horizontal	

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





Spurious E EUT:	Mini					I No.:	<u>_</u>		8-N100		
	20 ℃							48%	0 11100		
Temperature:		e2/ Mode				ive Humidit	у.				
Test Mode:	Test				In Zhang						
All the modula							ult wa	is rep	ort as be	low:	
Frequency	Reading Level	Cable Loss	Antenna Factor		eamp actor	Emission Level	Lin	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(0	dB)	(dBµV/m)	(dBµ	ıV/m)	(dB)	Туре	
3260	68.54	4.04	29.57	44	4.70	57.45	7	'4	-16.55	Pk	Vertical
3260	49.02	49.02 4.04 29.57		44	4.70	37.93	5	54	-16.07	AV	Vertical
3260	68.47	68.47 4.04 29.57		44	4.70	57.38	7	'4	-16.62	Pk	Horizontal
3260	50.28	4.04	29.57	44	4.70	39.19	5	64	-14.81	AV	Horizontal
3332	70.22	4.26	29.87	44	1.40	59.95	7	'4	-14.05	Pk	Vertical
3332	48.93	4.26	29.87	44	4.40	38.66	5	54	-15.34	AV	Vertical
3332	68.19	4.26	29.87	44	4.40	57.92	7	'4	-16.08	Pk	Horizontal
3332	48.41	4.26	29.87	44	1.40	38.14	5	54	-15.86	AV	Horizontal
17797	50.40	10.99	43.95	43	3.50	61.84	7	'4	-12.16	Pk	Vertical
17797	31.35	10.99	43.95	43	3.50	42.79	5	64	-11.21	AV	Vertical
17788	55.01	11.81	43.69	44	4.60	65.91	7	'4	-8.09	Pk	Horizontal
17788	36.41	11.81	43.69	44	1.60	47.31	5	64	-6.69	AV	Horizontal

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.

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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 \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.3.6 Test Results

EUT:	Mini PC	Model No.:	IDN08-N100	
Temperature:	20 ℃	Relative Humidity:	48%	
Test Mode:	Mode 5(1Mbps)	Test By:	Gavan Zhang	



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 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:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





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.

Certificate #4298.01

7.5.3 Measuring Instruments

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

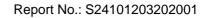
7.5.4 Test Setup

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: Mini PC		Model No.:	IDN08-N100
Temperature:	Temperature: 20 °C R		48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

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Test data reference attachment.

Note:

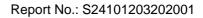
A Period Time = (channel number)*0.4

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 x 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 $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ 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

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7.6.6 Test Results

EUT:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





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

 $RBW \ge the 20 dB$ bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Mini PC	Model No.:	IDN08-N100 48% Gavan Zhang
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





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:	Mini PC	Model No.:	IDN08-N100
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Gavan Zhang





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 Permanently attached PIFA antenna (Gain: 3.36 dBi). It comply with the standard requirement.



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 transmitter be presented with a continuous data (or information) stream. In addition, a system employing short 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.

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**

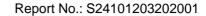
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.381	86.487	227	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.635	217.455	133	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.888	280.136	97	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.39	88.14	226	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.64	221.4	135	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.888	259.92	90	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.39	88.53	227	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.64	232.88	142	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.896	243.264	84	31600	400	Pass

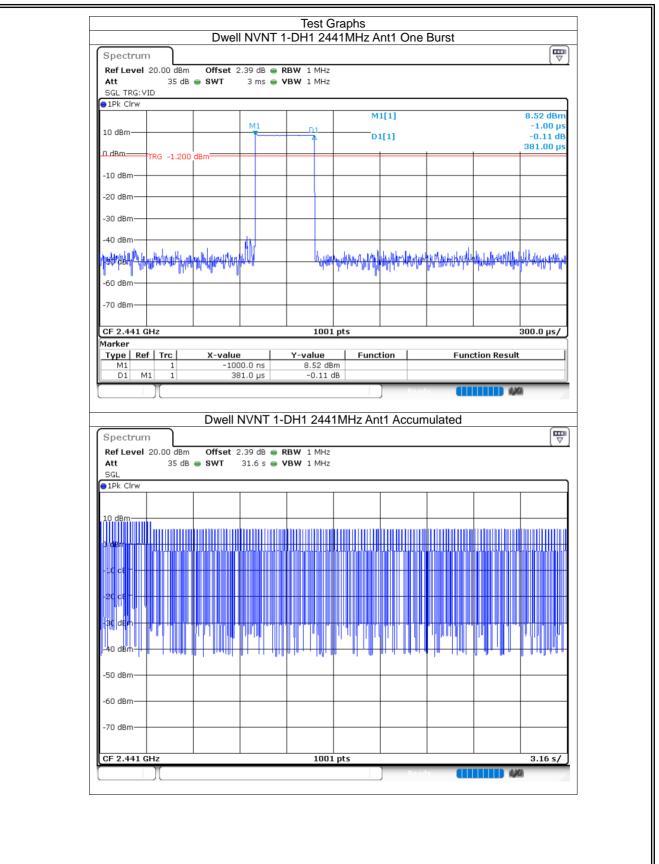


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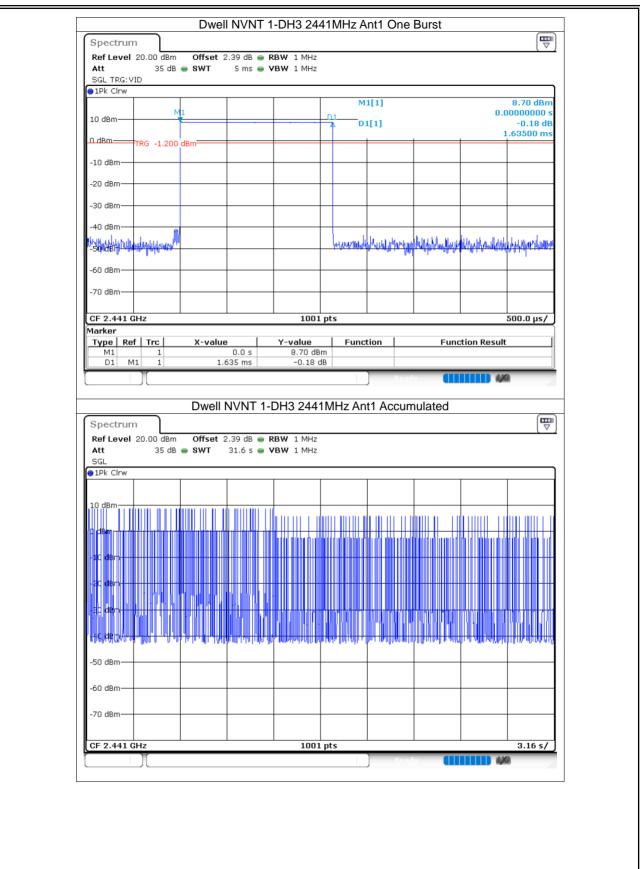




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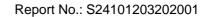
Certificate #4298.01

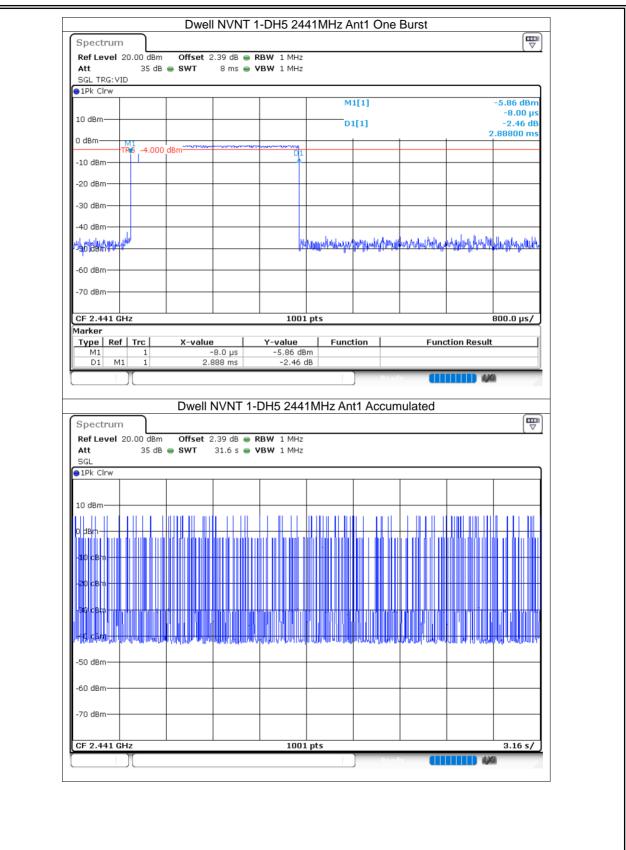
Report No.: S24101203202001





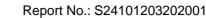
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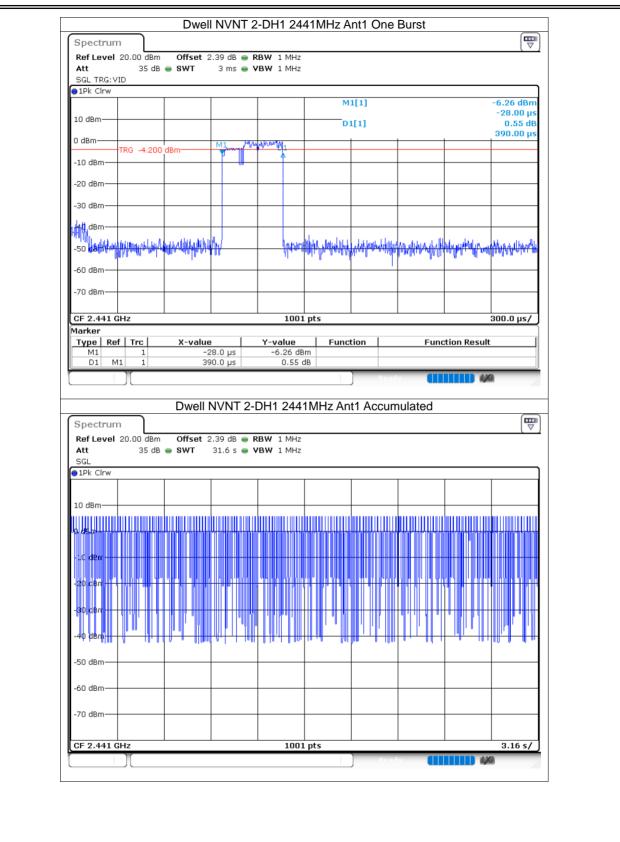






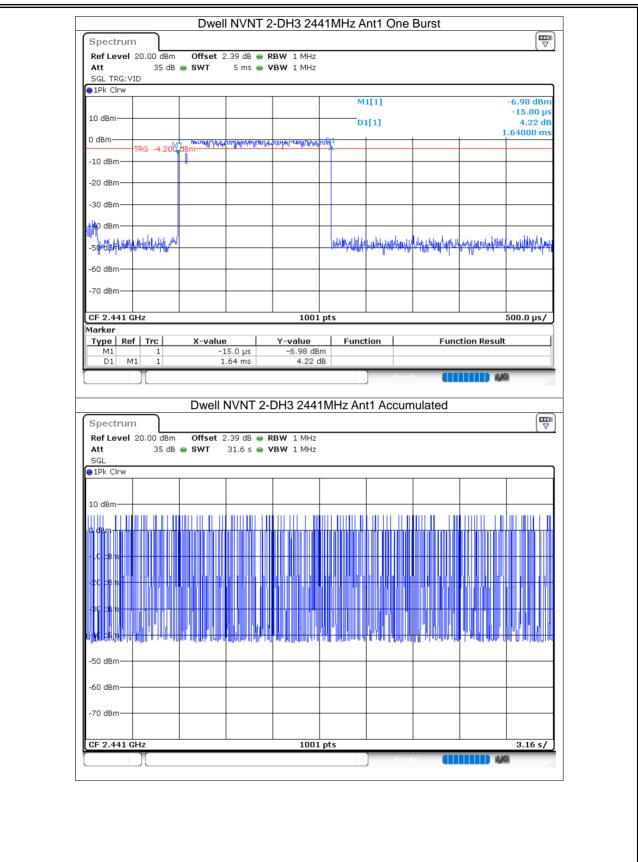
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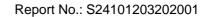


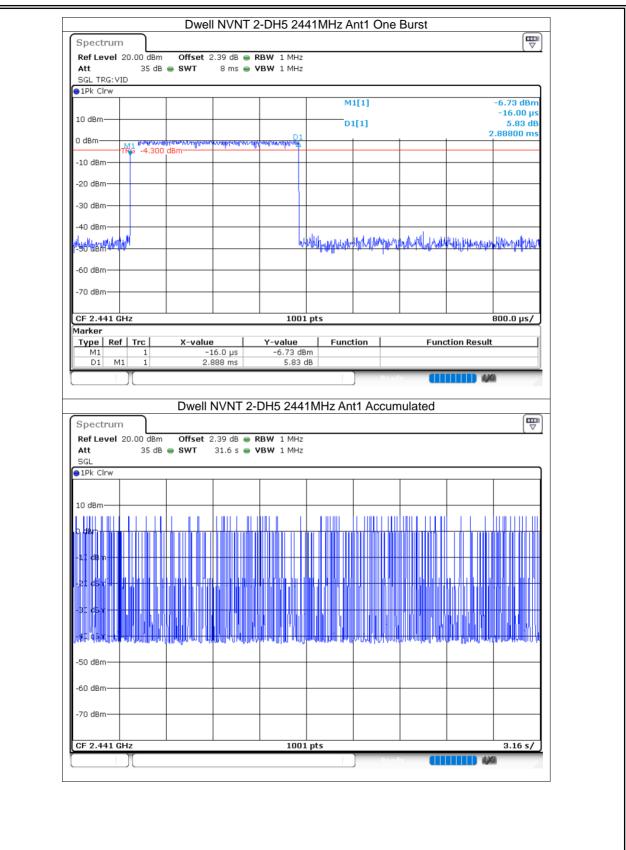






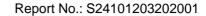
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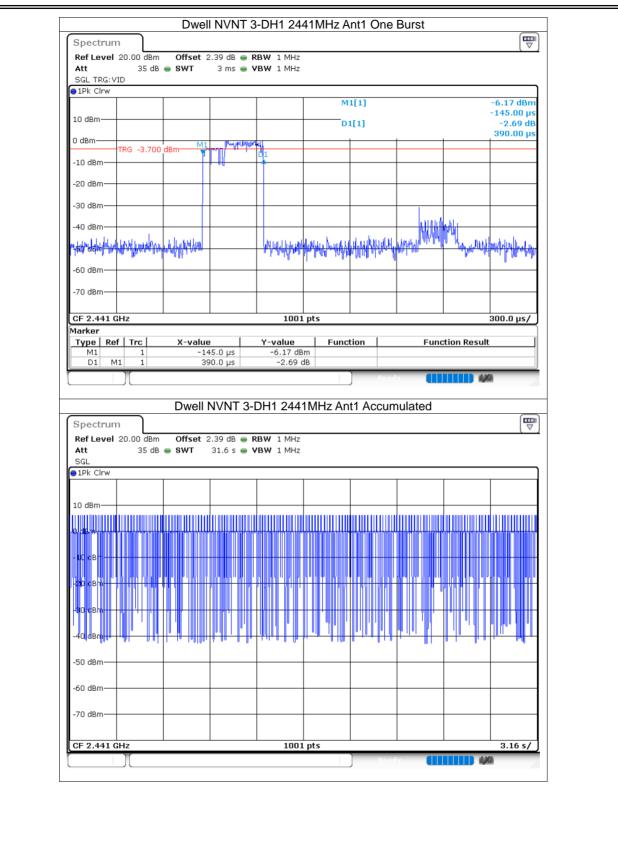






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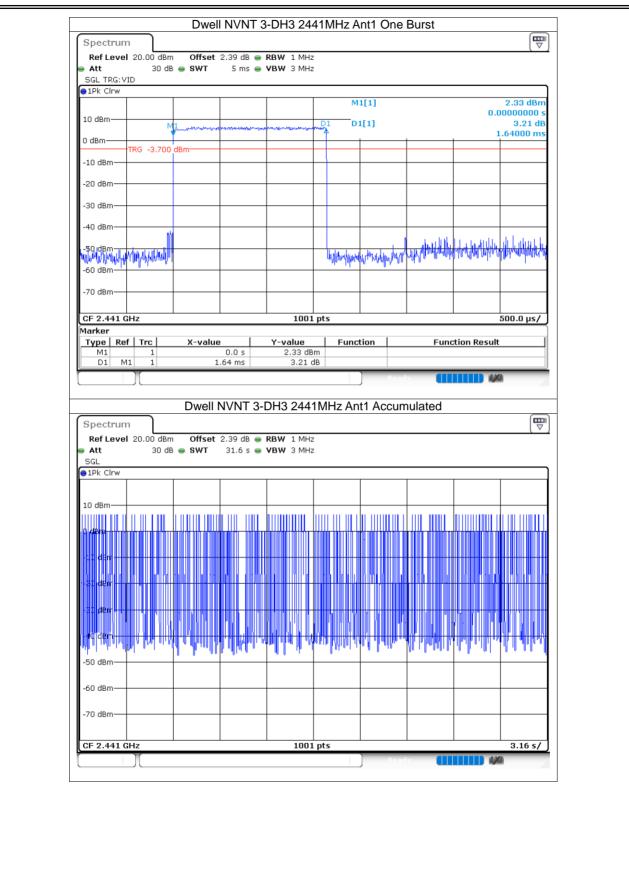




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8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.44	21	Pass
NVNT	1-DH5	2441	Ant1	5.73	21	Pass
NVNT	1-DH5	2480	Ant1	5.73	21	Pass
NVNT	2-DH5	2402	Ant1	6.01	21	Pass
NVNT	2-DH5	2441	Ant1	6.44	21	Pass
NVNT	2-DH5	2480	Ant1	6.57	21	Pass
NVNT	3-DH5	2402	Ant1	6.05	21	Pass
NVNT	3-DH5	2441	Ant1	6.54	21	Pass
NVNT	3-DH5	2480	Ant1	6.64	21	Pass

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Power NVNT 1-DH5 2441MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.39 dB • RBW 2 MHz Att 35 dB SWT 1 ms • VBW 2 MHz Max M1[1] 5.73 2.44102001	Power NVNT 1-DH5 2441MHz Ant1 Spectrum Colspan="2">Ref Level 20.00 dBm Offset 2.39 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100	Power NVNT 1-DH5 2441MHz Ant1 rum vel 20.00 dBm Offset 2.39 dB RBW 2 MHz 35 dB SWT 1 ms VBW 2 MHz unt 100/100 Mail Mail 5.73
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Spectrum Ref Level 20.00 dBm Offset 2.42 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 Ims VBW 2 MHz Mode Auto Sweep O dBm M1 1 5.7 10 0 M1 10 5.7	5.73 dBm 9020 GHz
10 dBm	
10 dBm	9020 GHz
<10 dBm	
-20 dBm	
-30 dBm	
-40 dBm	
-50 dBm	
-60 dBm	
-70 dBm-	
CF 2.48 GHz 1001 pts Span 5.0	,
Read V	5.0 MHz
Prover Power NVNT 2-DH5 2402MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.38 dB • RBW 2 MHz Att 35 dB SWT 1 ms • VBW 2 MHz Mode Auto Sweep	1
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 P1Pk Max	
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 0<	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB • RBW 2 MHz Att 35 dB SGL Count 100/100 • 1Pk Max 10 dBm	(₩ ▽
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 0 0 1Pk Max M1[1] 6.0 10 /b 0 0 0 0 0 0	(₩ ▽
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz SGL Count 100/100 Image: SGL Count 100/100 Image: SGL Count 100/100 Image: SGL Count 100/100 I Pk Max M1[1] 6.0 2.4020714 10 dBm Image: SGL Count 100/100 Image: SGL Count 100/100 Image: SGL Count 100/100	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 Image: Count 100/10	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz SGL Count 100/100 Image: SGL Count 100/100 M1[1] 6.0 ID dBm 0 dBm 0 <td>(₩ ▽ 6.01 dBm</td>	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz SGL Count 100/100 Image: second s	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz SGL Count 100/100 Image: SGL Count 100/100 M1[1] 6.0 ID dBm Image: SGL Count 100/100 Image: SGL Count 100/100 Image: SGL Count 100/100 ID dBm Image: SGL Count 100/100 Image: SGL Count 100/100 Image: SGL Count 100/100 Image: SGL Count 100/100 ID dBm Image: SGL Count 100/100 Image: SGL	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz SGL Count 100/100 Image: SGL Count 100/100 M1[1] 6.0 ID dBm Image: SGL Count 100/100 Image: SGL Count 100/100 M1[1] 6.0 ID dBm Image: SGL Count 100/100 Image: SG	(
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 Image: Signature of the system of the	(
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 0 10 dBm 0.00 dB	(₩ ▽ 6.01 dBm
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz Att 35 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 Image: second sec	(
Spectrum Ref Level 20.00 dBm Offset 2.38 dB RBW 2 MHz SGL Count 100/100 Ims VBW 2 MHz Mode Auto Sweep SIL Count 100/100 Ims VBW 2 MHz Mode Auto Sweep Ims VBW 2 MHz Mode Auto Sweep 6.0 Ims VBW 2 MHz MI[1] 6.0 Ims VI Ims VI Ims Ims VI Ims VI Ims Ims Ims VI Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims Ims	(₩ ▽ 6.01 dBm





						MHz Ant1			
Att SGL Count	20.00 dBm 35 dB		.39 dB 👄 RE 1 ms 👄 VE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep			(\
●1Pk Max					м	1[1]			6.44 dBm
10 dBm					M1			2.441	.08440 GHz
					M1 V				
0 dBm								_	
-10 dBm									
~									
-20 dBm—									
-30 dBm									
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
-70 ubiii									
CF 2.441 (GHz			1001	pts			Spa	n 6.5 MHz
						Read	v M		2
	20.00 dBm	Offset 2.	.42 dB 👄 RE						
	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE		Mode Aut	o Sweep			
Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut			2.479	6.57 dBm 88960 GH2
Ref Level Att SGL Count	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz	Mode Aut	o Sweep		2.479	6.57 dBm
Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count IPK Max 10 dBm- -10 dBm- -20 dBm-	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count • 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count • 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count • 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.479	6.57 dBm
Ref Level Att SGL Count PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	20.00 dBm 35 dB	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		2.475	6.57 dBm
Ref Level Att SGL Count • 1Pk Max 10 dBm - 0 dBm - 10 dBm - 20 dBm - 30 dBm - 40 dBm - 50 dBm - 60 dBm	20.00 dBm 35 dB 100/100	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep		Spa	6.57 dBm 88960 GHz
Ref Level Att SGL Count • 1Pk Max 10 dBm	20.00 dBm 35 dB 100/100	Offset 2.	.42 dB 👄 RE	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep			6.57 dBm 88960 GHz





Spectrum Ref Level 20.00 dBm Att 35 dB		RBW 2 MHz	Mada Auto Curcos			
SGL Count 100/100	SWI Ims	S ARM 5 MH2	Mode Auto Sweep			
●1Pk Max			M1[1]			6.05 dBm
			mili		2.402	05840 GHz
10 dBm						
0 dBm						
-10 dBm						
-20 dBm						- Mark
-30 dBm						
-40 dBm						
50 40 -						
-50 dBm						
-60 dBm				_		
-70 dBm						
-70 0811						
		100	1 pts		Spa	n 6.5 MHz
CF 2.402 GHz						
Spectrum Ref Level 20.00 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar			
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100	Offset 2.39 dB	er NVNT 3-D	R	nt1		1
Spectrum Ref Level 20.00 dBm Att 35 dB	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 ● 1Pk Max 10 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 • 1Pk Max	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 ● 1Pk Max 10 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 • 1Pk Max 10 dBm 0 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 • IPk Max 10 dBm -10 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1		6.54 dBm
Spectrum Ref Level 20.00 dBm Att 35 dB SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	Offset 2.39 dB	er NVNT 3-D	H5 2441MHz Ar	nt1	2.441	6.54 dBm





Spectrum							
Ref Level 20.00 Att	DdBm Offso 35dB SWT	et 2.42 dB 👄 F 1 ms 👄 V		Mode Auto Sweep			
SGL Count 100/	100						
1Pk Max							
				M1[1]		2.479	6.64 dBm 96100 GHz
10 dBm			- M		+ +	2.1173	
			+				
0 dBm							
-10 dBm					+ +		
and the second se							
-20 dBm					+ +		
-30 dBm							
40 dBm							
-40 dBm							
-50 dBm							
oo abiii							
-60 dBm							
-70 dBm							
CF 2.48 GHz			1001				n 6.5 MHz





8.3 -20DB BANDWIDTH

8.3 -2008 B A	NDWIDTH					
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.954	0	Pass
NVNT	1-DH5	2441	Ant1	0.956	0	Pass
NVNT	1-DH5	2480	Ant1	0.946	0	Pass
NVNT	2-DH5	2402	Ant1	1.524	0	Pass
NVNT	2-DH5	2441	Ant1	1.518	0	Pass
NVNT	2-DH5	2480	Ant1	1.518	0	Pass
NVNT	3-DH5	2402	Ant1	1.485	0	Pass
NVNT	3-DH5	2441	Ant1	1.521	0	Pass
NVNT	3-DH5	2480	Ant1	1.458	0	Pass

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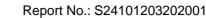








ACCREDITED













ACCREDITED Certificate #4298.01

Report No.: S24101203202001

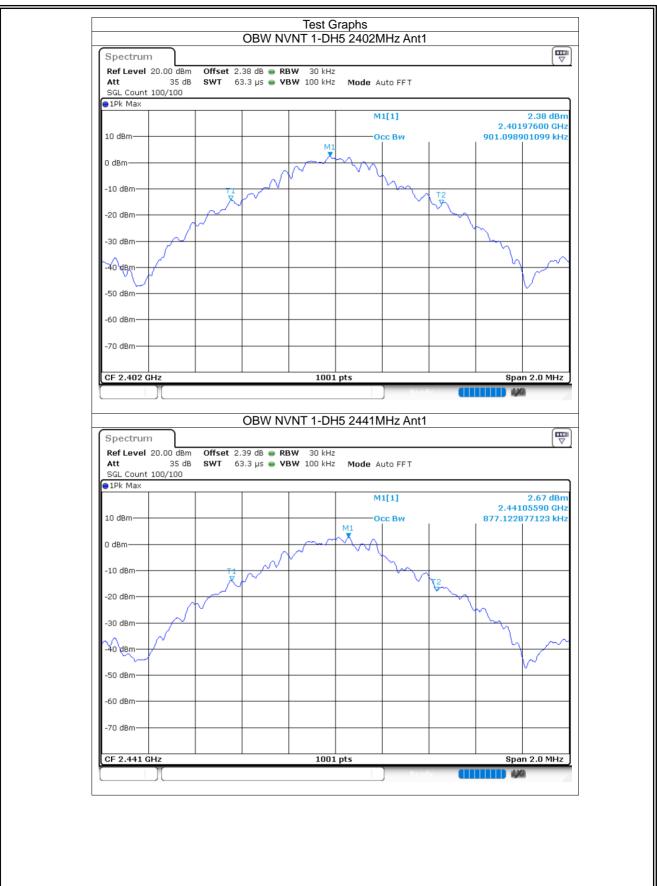
Spectr	um							
Ref Lev	el 20).00 dBn	Offset 2.42 dB	RBW 30 kHz				(.)
Att		35 dE	в SWT 63.2 µs	VBW 100 kHz	Mode Auto FFT			
SGL Co	unt 10	00/100						
1Pk Ma	x							
					M1[1]			1.30 dBm
o							2.480	04800 GHz
.0 dBm-				M1	M2[1]		-	17.93 dBm
I dBm—				X			2.479	27700 GHz
ubiii—				m	manda			
10 dBm			~~~~	m viv.				
10 0.0			M2~			~~√_мз		
20 dBm	_		_			X		
			m			- N		
30 dBm	_						\	
		1					h	
40 øB, m	~~		+				<u> </u>	
		v						
50 dBm								
60 dBm								
70 dBm								
F 2.48	GHz			1001 pt	s		Spa	n 3.0 MHz
arker								
Туре	Ref		X-value	Y-value	Function	Func	tion Result	:
M1		1	2.480048 GH					
M2		1	2.479277 GH					
M3		1	2.480735 GH	z -18.66 dBm				



Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.901
NVNT	1-DH5	2441	Ant1	0.877
NVNT	1-DH5	2480	Ant1	0.897
NVNT	2-DH5	2402	Ant1	1.373
NVNT	2-DH5	2441	Ant1	1.376
NVNT	2-DH5	2480	Ant1	1.373
NVNT	3-DH5	2402	Ant1	1.355
NVNT	3-DH5	2441	Ant1	1.364
NVNT	3-DH5	2480	Ant1	1.355

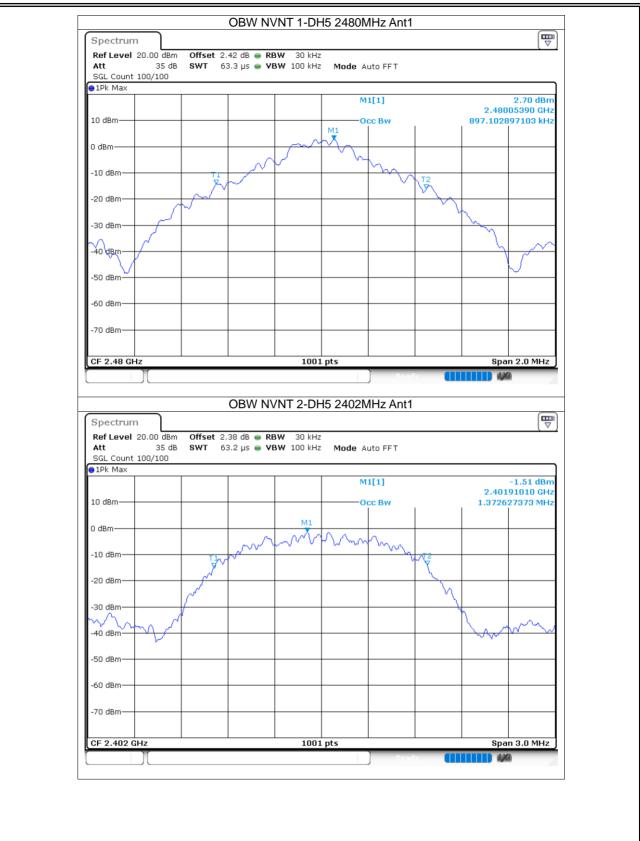












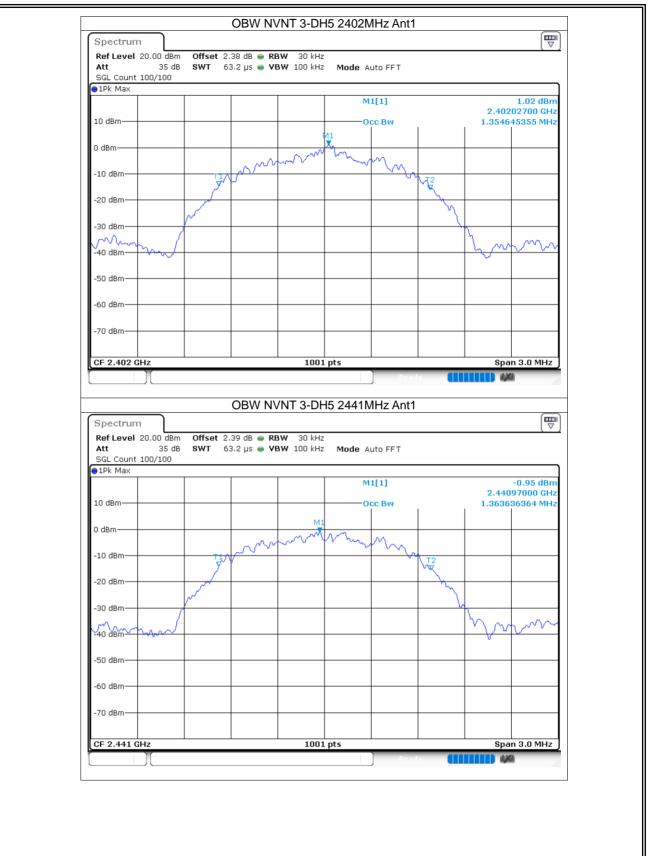






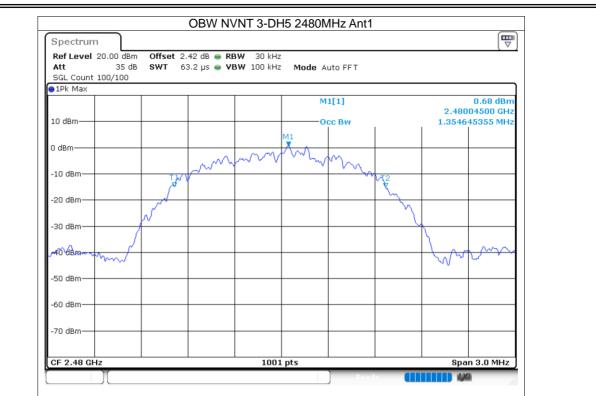




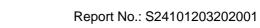








NTEK 北测[®]



Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdic
NVNT	1-DH5	Ant1	2401.996	2403.06	1.064	0.025	Pass
NVNT	1-DH5	Ant1	2441.008	2442.058	1.05	0.637	Pass
NVNT	1-DH5	Ant1	2479.058	2480.06	1.002	0.631	Pass
NVNT	2-DH5	Ant1	2402.016	2403.054	1.038	1.016	Pass
NVNT	2-DH5	Ant1	2440.984	2442.056	1.072	1.012	Pass
NVNT	2-DH5	Ant1	2479.028	2480.078	1.05	1.012	Pass
NVNT	3-DH5	Ant1	2402.16	2403.162	1.002	0.99	Pass
NVNT	3-DH5	Ant1	2440.836	2441.908	1.072	1.014	Pass
NVNT	3-DH5	Ant1	2478.968	2480.052	1.084	0.972	Pass

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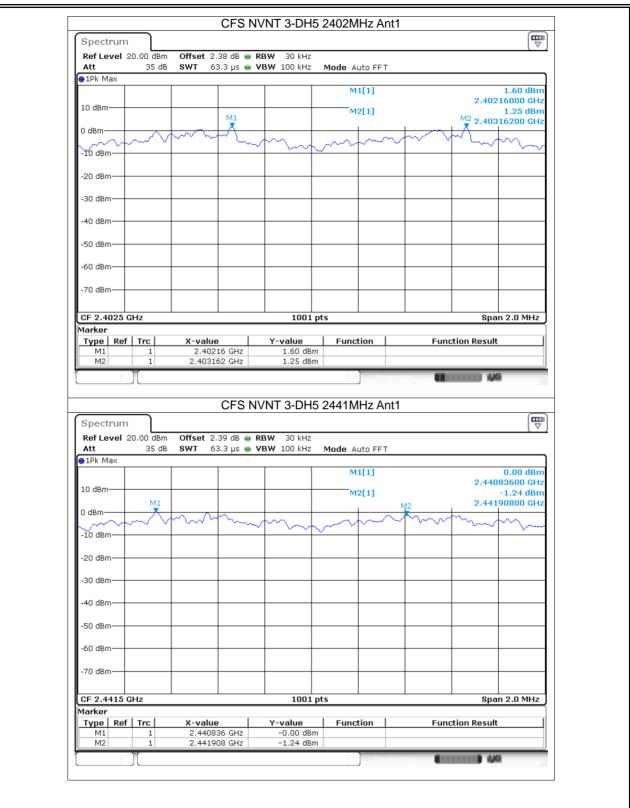
















Spectrum							
Ref Level 2	0.00 dBm	Offset 2.42 dB	RBW 30 kHz				(*)
Att	35 dB		VBW 100 kHz	Mode Auto FFT			
)1Pk Max							
				M1[1]			-0.43 dBm
10 dBm						2.478	96800 GHz
				M2[1]	M2		1.28 dBm
D dBm		M1			. ×	2.480	05200 GHz
	m	month	-m	m	\sim	m l	m
-10 dBm				<i></i>		~	~~~
-20 dBm							
-30 dBm							
-40 dBm							
-50 dBm							
60 db-							
-60 dBm							
-70 dBm							
-70 ubiii							
CF 2.4795 G	Hz		1001 p	ts		Spa	n 2.0 MHz
1arker							
Type Ref		X-value	Y-value	Function	Fund	tion Result	
M1 M2	1	2.478968 GHz 2.480052 GHz	-0.43 dBm 1.28 dBm				
MIZ		2.480052 GHZ	1.28 dBm				





.6 NUMBER OF HOP	PING CHANNEL				
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass





		Hor	opina Na	Iest G D. NVNT 1	araphs -DH5 24	02MHz A	Ant1		
Spectrum			1						
Ref Level 20.				BW 100 kHz					(*
Att 1Pk Max	35 dB	SWT	1 ms 😑 🖌	/ BW 300 kHz	Mode A	uto Sweep			
_					1	1[1]			4.59 dBn
1,Q1dBm					м	2[1]		2.4	018370 GH: 5.07∛∰Bn
	<u>haaaa</u> f	MANANAA	110000	<u>A</u> DAADAAAAA	TANANAA.	<u>laaanaaa</u>	<u>hadadhha</u>	AAAAARAA	ардазысн:
	WWW	WWWWW	VVVVV	AMAMANA	NVVVVVV	VVVVVVV	WWWW	IVYVYVY	YVYYY
-10 @Bm-++++++									
-20 dBm									
-80 dBm									
40 dBm									
									1
150 dBm									- ⁴
-60 dBm									+
-70 dBm									
Start 2.4 GHz Marker				1001	L pts			Stop 2	2.4835 GHz
Type Ref	Trc	X-value 2.40183		Y-value 4.59 dB	Func	tion	Fund	ction Resu	lt
M1 M2	1	2.40183		4.59 de 5.07 de					
						Monour			XI
)	-		
			· •						
		Нор	oping No	D. NVNT 2	2-DH5 24	02MHz A			
Spectrum						02MHz A			
Ref Level 20. Att	00 dBm 35 dB		38 dB 👄 🖡	D. NVNT 2	1	02MHz A			
Ref Level 20.		Offset 2.	38 dB 👄 🖡	BW 100 kHz	: Mode A				0.71 dBn
Ref Level 20. Att		Offset 2.	38 dB 👄 🖡	BW 100 kHz	: Mode A	uto Sweep 1[1]			0.71 dBn 016700 GH:
Ref Level 20. Att PIPK Max 10 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 10 dBm M1 0 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	BW 100 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att PIPK Max 10 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 10 dBm M1 0 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm M1 008m/MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm M1 0 dBm -10 dBm -20 dBm 30 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm M1 0 dBm -10 dBm -20 dBm 30 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm M1 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	Mode A	uto Sweep 1[1] 2[1]	Ant1	2.4	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm M1 008m 20 dBm 20 dBm 30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.4 GHz	35 dB	Offset 2. SWT	38 dB 👄 🖡 1 ms 👄 V	28W 100 kHz 78W 300 kHz	· Mode A M ለማሪካቲካታለታ	uto Sweep 1[1] 2[1]	Ant1	2.4 p. (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.71 dBn 016700 GH: 1.63 dBn
Ref Level 20. Att 1Pk Max 10 dBm M1 0/89m/MA -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	35 dB	Offset 2. SWT	38 dB • F 1 ms • V	88₩ 100 kHz 78₩ 300 kHz МАЛДАДАДАДА 1001 Y-value	المحافظ المحاف	uto Sweep 1[1] 2[1] 	Ant1	2.4 p. (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.71 dBn 016700 GH: 1.63 dBn 802435 GHz
Ref Level 20. Att 11Pk Max 10 dBm M1 0 0 0 0 0 0 40 dBm -50 dBm -60 dBm -70 dBm Start 2.4 GHz Marker	35 dB	Offset 2. SWT	38 dB • F 1 ms • V	28 w 100 kHz 78 w 300 kHz 4 лүүлүүлү 4 лүүлүүлүү 100 л 7-value 0.71 de	ישמפ א איז איז איז איז איז איז איז איז איז איז	uto Sweep 1[1] 2[1] 	Ant1	2.4 AAAAAi Stop 2	0.71 dBn 016700 GH: 1.63 dBn 802435 GHz
Ref Level 20. Att 1Pk Max 10 dBm M1 0 0 0 0 0 0 40 dBm -20 dBm -30 dBm -30 dBm -60 dBm -70 dBm -70 dBm Type Ref M1	35 dB	Offset 2. SWT	38 dB • F 1 ms • V	88₩ 100 kHz 78₩ 300 kHz МАЛДАДАДАДА 1001 Y-value	ישמפ א איז איז איז איז איז איז איז איז איז איז	uto Sweep 1[1] 2[1] 	Ant1	2.4 AAAAAi Stop 2	0.71 dBn 016700 GH: 1.63 dBn 80248 4/3 H: MHMAA 2.4835 GHz