



RADIO TEST REPORT FCC ID: 2AQ5R-DB-AY-AP6275P IC: 24301-DBAY

Product: WIFI 6 BOX

Trade Mark: N/A

Model No.: DB-AY

Family Model: N/A

Report No.: S23022702617001

Issue Date: Mar 23. 2023

Prepared for

Shenzhen KTC Commercial Display Technology CO., LTD.

No.4023,Northern Wuhe Road,Bantian Street,Line two: Longgang District,Shenzhen City,Guangdong Province,P.R.China

Prepared by

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1 TEST RESULT CERTIFICATION

Shenzhen KTC Commercial Display Technology CO.,LTD.
No.4023,Northern Wuhe Road,Bantian Street,Line two: Longgang District,Shenzhen City,Guangdong Province,P.R.China
Shenzhen KTC Commercial Display Technology CO., LTD.
No.4023,Northern Wuhe Road,Bantian Street,Line two: Longgang District,Shenzhen City,Guangdong Province,P.R.China
WIFI 6 BOX
DB-AY
N/A
S230227026011

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 RSS-247: Issue 2 Feb 2017 RSS GEN: Issue 5 February 2021 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	: Feb 28. 2023 ~ Mar 23. 2023
Testing Engineer	Jollen Lin
	(Allen Liu)
Authorized Signatory	Aless
C <i>1</i>	(Alex Li)

F	FCC Part15 (15.247), Subpart C& RS	SS 247	
Standard Section	Test Item	Remark	
15.207 RSS-Gen 8.8	Conducted Emission	PASS	
15.209 (a) 15.205 (a) RSS-Gen 8.9 RSS-Gen 8.10	Radiated Spurious Emission	PASS	
15.247(a)(1) RSS-247.5.1(b)	Hopping Channel Separation	PASS	
15.247(b)(1) RSS-247.5.4(a)(b), 5.1(b)	Peak Output Power	PASS	
RSS-247.5.4(b)	Equivalent Isotropically Radiated Power	PASS	
15.247(a)(iii) RSS-247.5.1(d)	Number of Hopping Frequency	PASS	
15.247(a)(iii) RSS-247.5.3	Dwell Time	PASS	
15.247(a)(1) RSS-247.5.1(a) RSS-Gen 6.7	Bandwidth	PASS	
15.247 (d) RSS-247.5.5	Band Edge Emission	PASS	
15.247 (d) RSS-247.5.5	Spurious RF Conducted Emission	PASS	
15.203 RSS-Gen 6.8	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 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).
	: 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%
9	All emissions, radiated(9KHz~30MHz)	±6dB





4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	WIFI 6 BOX	
Trade Mark	N/A	
FCC ID	2AQ5R-DB-AY-AP6275P	
IC	24301-DBAY	
Model No.	DB-AY	
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	External Antenna	
Antenna Gain	2.06 dBi	
Power supply	AC 120V/60Hz	
Adapter	N/A	
HW Version	N/A	
SW Version	N/A	

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

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





Revision History			
Report No.	Version	Description	Issued Date
S23022702617001	Rev.01	Initial issue of report	Mar 23. 2023
			<u> </u>



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: AO assure lies. Ose destad Esciences to take des assure income state to such		

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	

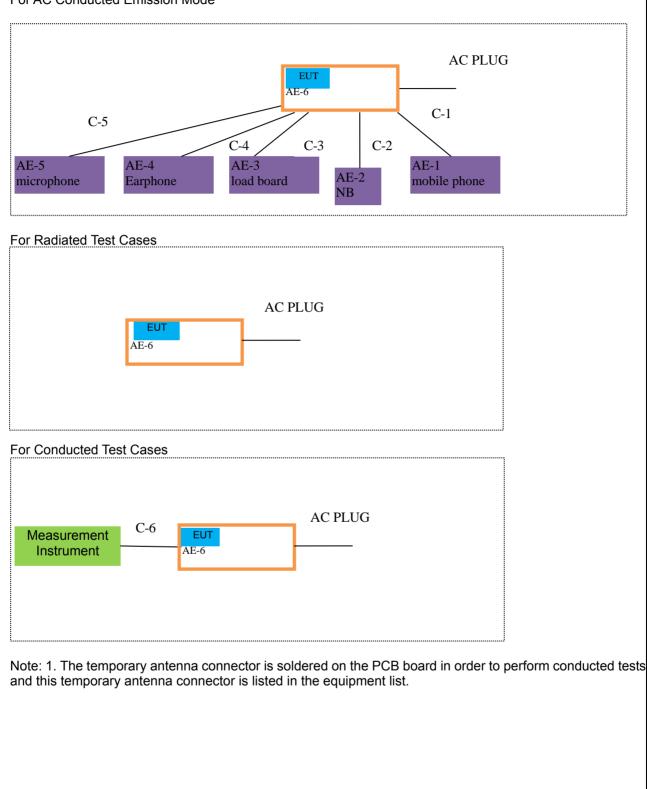
Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.



6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For AC Conducted Emission Mode





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.

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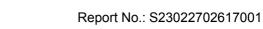
Item	Equipment	Model/Type No.	Series No.	Note
AE-1	mobile phone	N/A	N/A	Peripherals
AE-2	Notebook	N/A	N/A	Peripherals
AE-3	load board	N/A	N/A	Peripherals
AE-4	Earphone	N/A	N/A	Peripherals
AE-5	microphone	N/A	N/A	Peripherals
AE-6	INTERACTIVE FLAT PANEL	75W71B-B	N/A	Peripherals

lac.

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Type-c Cable	NO	NO	1.0m
C-2	Type-c Cable	NO	NO	1.0m
C-3	HDMI Cable/ optical cable	NO	NO	1.2m
C-4	Earphone Cable	NO	NO	1.2m
C-5	USB Cable	NO	NO	1.2m
C-6	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

ilac-M

ACCR

Radiation& Conducted Test equipment

uuuuu	na conducted i	corequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.06	2023.04.05	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.04.06	2023.04.05	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	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	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.08	2023.11.07	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.08	2023.11.07	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2022.11.08	2023.11.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	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	2022.11.08	2023.11.07	1 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	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2022.04.06	2023.04.05	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)& According to RSS-Gen 8.8

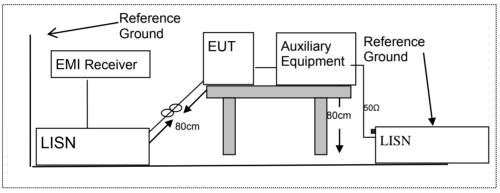
7.1.2 Conformance Limit

	Conducted	I 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.
- 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.
- 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

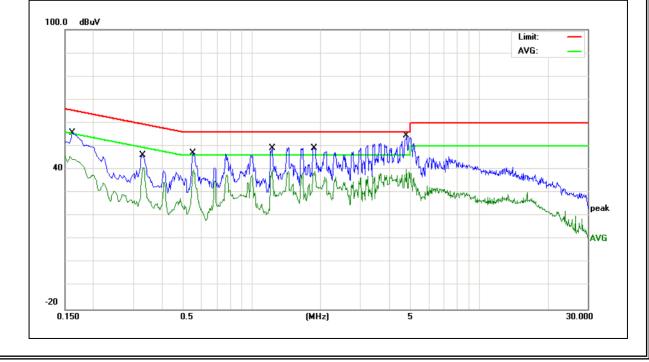
EUT:	WIFI 6 BOX	Model Name :	DB-AY
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
					-	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1620	46.01	9.61	55.62	65.36	-9.74	QP
0.1620	34.72	9.61	44.33	55.36	-11.03	AVG
0.3300	36.55	9.64	46.19	59.45	-13.26	QP
0.3300	31.10	9.64	40.74	49.45	-8.71	AVG
0.5500	37.39	9.66	47.05	56.00	-8.95	QP
0.5500	29.42	9.66	39.08	46.00	-6.92	AVG
1.2260	39.38	9.68	49.06	56.00	-6.94	QP
1.2260	27.37	9.68	37.05	46.00	-8.95	AVG
1.8700	39.56	9.68	49.24	56.00	-6.76	AVG
1.8700	27.86	9.68	37.54	46.00	-8.46	QP
4.7940	42.63	9.77	52.40	56.00	-3.60	QP
4.7940	30.28	9.77	40.05	46.00	-5.95	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.







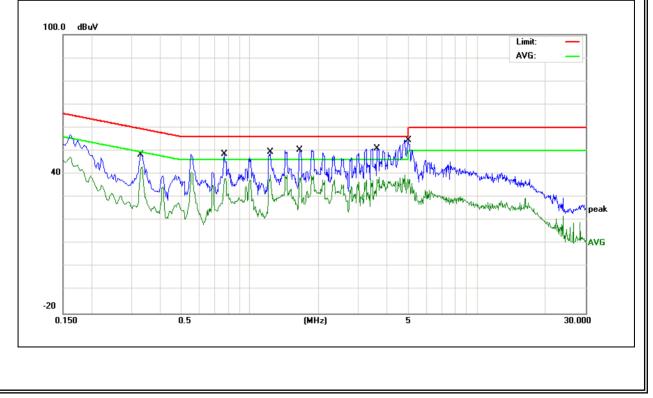
EUT:	WIFI 6 BOX	Model Name :	DB-AY
Temperature:	25 ℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.3300	38.74	9.65	48.39	59.45	-11.06	QP
0.3300	32.37	9.65	42.02	49.45	-7.43	AVG
0.7700	38.90	9.68	48.58	56.00	-7.42	QP
0.7700	27.92	9.68	37.60	46.00	-8.40	AVG
1.2260	39.83	9.67	49.50	56.00	-6.50	QP
1.2260	29.94	9.67	39.61	46.00	-6.39	AVG
1.6500	40.80	9.67	50.47	56.00	-5.53	QP
1.6500	27.75	9.67	37.42	46.00	-8.58	AVG
3.6180	41.36	9.71	51.07	56.00	-4.93	QP
3.6180	26.88	9.71	36.59	46.00	-9.41	AVG
4.9540	41.95	9.75	51.70	56.00	-4.30	QP
4.9540	24.31	9.75	34.06	46.00	-11.94	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& RSS-Gen 8.9& 8.10

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

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According to FOC Fait 15.205, 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)

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



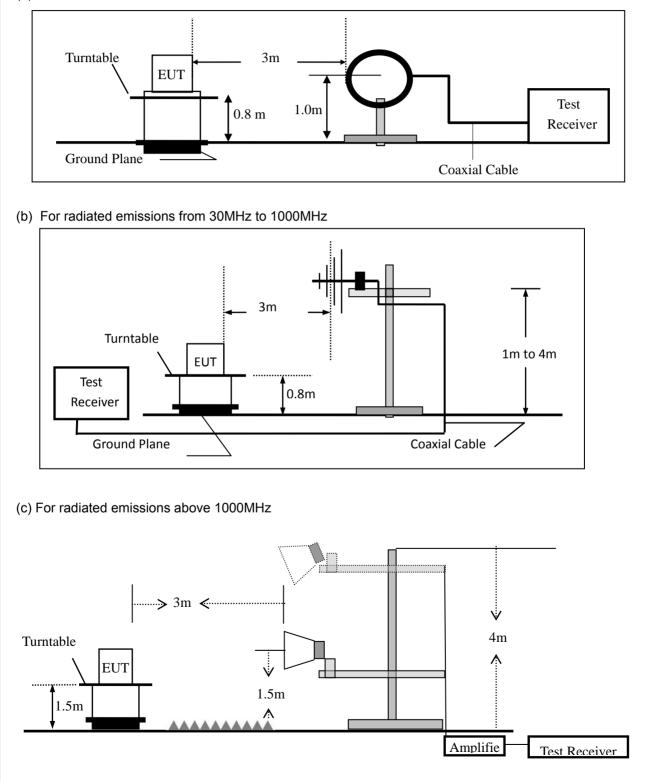
7.2.3 Measuring Instruments

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.

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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	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:										
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth								
30 to 1000	QP	120 kHz	300 kHz								
About 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:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB) PK AV		
(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.



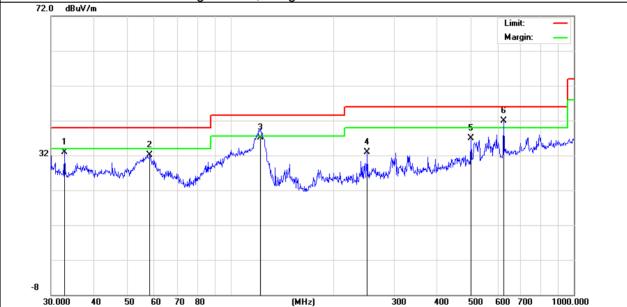


Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below: EUT: WIFI 6 BOX Model Name : DB-AY **25°**℃ Relative Humidity: 55% Temperature: Test Mode: Pressure: 1010hPa Mode 1 AC 120V/60Hz Test Voltage :

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.8637	14.96	17.97	32.93	40.00	-7.07	QP
V	58.2030	12.14	19.96	32.10	40.00	-7.90	QP
V	122.4040	20.79	16.41	37.20	43.50	-6.30	QP
V	250.3010	13.66	19.16	32.82	46.00	-13.18	QP
V	501.1788	13.27	23.57	36.84	46.00	-9.16	QP
V	625.0778	16.44	25.54	41.98	46.00	-4.02	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	122.8340	15.15	16.37	31.52	43.50	-11.98	QP
Н	250.3012	12.47	19.16	31.63	46.00	-14.37	QP
Н	375.9385	11.18	21.59	32.77	46.00	-13.23	QP
Н	501.1788	12.98	23.57	36.55	46.00	-9.45	QP
Н	595.1329	13.33	25.11	38.44	46.00	-7.56	QP
Н	627.2738	16.14	25.56	41.70	46.00	-4.30	QP
72.0	n Level= Meter F				vel - Limit	Limit: - Margin: -	
-8 30	0.000 40 50 0	50 70 80	(Mł	Iz) 3	00 400 500	600 700 1	000.000





	Spurious Emission Above 1GHz (1GHz to 25GHz)										
EU	Г:	WIFI 6	BOX		Model	No.:	Π	DB-A	Y		
Ten	nperature:	20 ℃			Relativ	e Humidity	/: 4	48%			
Tes	t Mode:	Mode2	2/Mode3/	Mode4	Test B	/:		Allen	Liu		
All t	Il 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 Chan	nel (2402 M	Hz)(GFSK)	Above	1G			
	4804.214	63.99	5.21	35.59	44.30	60.49	74.	00	-13.51	Pk	Vertical
	4804.214	40.60	5.21	35.59	44.30	37.10	54.	00	-16.90	AV	Vertical
	7206.265	61.05	6.48	36.27	44.60	59.20	74.	00	-14.80	Pk	Vertical
	7206.265	43.63	6.48	36.27	44.60	41.78	54.	00	-12.22	AV	Vertical
	4804.109	60.94	5.21	35.55	44.30	57.40	74.	00	-16.60	Pk	Horizontal
	4804.109	42.48	5.21	35.55	44.30	38.94	54.	00	-15.06	AV	Horizontal
	7206.224	64.12	6.48	36.27	44.52	62.35	74.	00	-11.65	Pk	Horizontal
	7206.224	47.42	6.48	36.27	44.52	45.65	54.		-8.35	AV	Horizontal
				Mid Chanr	nel (2441 MI	Hz)(GFSK)/	Above '	1G			
	4882.396	63.10	5.21	35.66	44.20	59.77	74.	00	-14.23	Pk	Vertical
	4882.396	42.92	5.21	35.66	44.20	39.59	54.	00	-14.41	AV	Vertical
	7323.241	59.89	7.10	36.50	44.43	59.06	74.	00	-14.94	Pk	Vertical
	7323.241	47.09	7.10	36.50	44.43	46.26	54.	00	-7.74	AV	Vertical
	4882.108	61.84	5.21	35.66	44.20	58.51	74.	00	-15.49	Pk	Horizontal
	4882.108	49.21	5.21	35.66	44.20	45.88	54.	00	-8.12	AV	Horizontal
	7323.132	60.79	7.10	36.50	44.43	59.96	74.	00	-14.04	Pk	Horizontal
	7323.132	42.76	7.10	36.50	44.43	41.93	54.		-12.07	AV	Horizontal
				High Chanr	nel (2480 M	Hz)(GFSK)	Above	1G			
	4960.397	65.64	5.21	35.52	44.21	62.16	74.	00	-11.84	Pk	Vertical
	4960.397	43.23	5.21	35.52	44.21	39.75	54.	00	-14.25	AV	Vertical
	7440.201	61.72	7.10	36.53	44.60	60.75	74.	00	-13.25	Pk	Vertical
	7440.201	46.20	7.10	36.53	44.60	45.23	54.	00	-8.77	AV	Vertical
	4960.225	68.16	5.21	35.52	44.21	64.68	74.	00	-9.32	Pk	Horizontal
	4960.225	48.40	5.21	35.52	44.21	44.92	54.	00	-9.08	AV	Horizontal
	7440.298	62.05	7.10	36.53	44.60	61.08	74.	00	-12.92	Pk	Horizontal
	7440.298	44.53	7.10	36.53	44.60	43.56	54.	00	-10.44	AV	Horizontal

Note:

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





Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz									
EUT:	WIFI 6 BO	X		Model I	No.:	DB-A	DB-AY		
Femperature:	20 °C			Relativ	e Humidity	: 48%	48%		
Fest Mode:	Mode2/ Mo	de4		Test By	/:	Allen	Liu		
All the modu	lation mode	s have be	en tested	, and the	worst resu	It was rep	ort as bel	ow:	
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	
			1M	lbps(GFSK)	-Non-hoppin	g			
2310.00	58.71	2.97	27.80	43.80	45.68	74	-28.32	Pk	Horizontal
2310.00	44.32	2.97	27.80	43.80	31.29	54	-22.71	AV	Horizontal
2310.00	58.70	2.97	27.80	43.80	45.67	74	-28.33	Pk	Vertical
2310.00	42.97	2.97	27.80	43.80	29.94	54	-24.06	AV	Vertical
2390.00	59.20	3.14	27.21	43.80	45.75	74	-28.25	Pk	Vertical
2390.00	43.42	3.14	27.21	43.80	29.97	54	-24.03	AV	Vertical
2390.00	56.52	3.14	27.21	43.80	43.07	74	-30.93	Pk	Horizontal
2390.00	42.80	3.14	27.21	43.80	29.35	54	-24.65	AV	Horizontal
2483.50	57.97	3.58	27.70	44.00	45.25	74	-28.75	Pk	Vertical
2483.50	43.75	3.58	27.70	44.00	31.03	54	-22.97	AV	Vertical
2483.50	59.11	3.58	27.70	44.00	46.39	74	-27.61	Pk	Horizontal
2483.50	43.58	3.58	27.70	44.00	30.86	54	-23.14	AV	Horizontal
				1Mbps((GFSK)-hopp	ing			
2310.00	50.33	2.97	27.80	43.80	37.30	74.00	-36.70	Pk	Vertical
2310.00	40.10	2.97	27.80	43.80	27.07	54.00	-26.93	AV	Vertical
2310.00	51.70	2.97	27.80	43.80	38.67	74.00	-35.33	Pk	Horizontal
2310.00	42.35	2.97	27.80	43.80	29.32	54.00	-24.68	AV	Horizontal
2390.00	52.58	3.14	27.21	43.80	39.13	74.00	-34.87	Pk	Vertical
2390.00	42.48	3.14	27.21	43.80	29.03	54.00	-24.97	AV	Vertical
2390.00	52.89	3.14	27.21	43.80	39.44	74.00	-34.56	Pk	Horizontal
2390.00	40.79	3.14	27.21	43.80	27.34	54.00	-26.66	AV	Horizontal
2483.50	53.62	3.58	27.70	44.00	40.90	74.00	-33.10	Pk	Vertical
2483.50	44.71	3.58	27.70	44.00	31.99	54.00	-22.01	AV	Vertical
2483.50	54.18	3.58	27.70	44.00	41.46	74.00	-32.54	Pk	Horizontal
2483.50	42.44	3.58	27.70	44.00	29.72	54.00	-24.28	AV	Horizontal

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

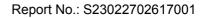




	Spurious Emission in Restricted Band 3260MHz-18000MHz											
ΕL	EUT: WIFI 6 BOX			Model N	Model No.: DB-		DB-A	-AY				
Те	mperature:		20 °C			Relative	e Humidity		48%			
Те	est Mode: Mode2/ Mode4			Test By	:		Allen	Liu				
Α	II the modu	lation	mode	s have be	en tested	, and the v	worst resu	lt wa	is repo	ort as belo	W:	
	Frequency		ding vel	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Li	mits	Margin	Detector	Comment
	(MHz)	(dB	μV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	µV/m)	(dB)	Туре	
	3260	61.	.80	4.04	29.57	44.70	50.71		74	-23.29	Pk	Vertical
	3260	56.	.99	4.04	29.57	44.70	45.90		54	-8.10	AV	Vertical
	3260	62.	.01	4.04	29.57	44.70	50.92		74	-23.08	Pk	Horizontal
	3260	58.	.00	4.04	29.57	44.70	46.91		54	-7.09	AV	Horizontal
	3332	65.	.41	4.26	29.87	44.40	55.14		74	-18.86	Pk	Vertical
	3332	53.	.66	4.26	29.87	44.40	43.39		54	-10.61	AV	Vertical
	3332	62.	.65	4.26	29.87	44.40	52.38		74	-21.62	Pk	Horizontal
	3332	52.	.49	4.26	29.87	44.40	42.22		54	-11.78	AV	Horizontal
	17797	43	.06	10.99	43.95	43.50	54.50		74	-19.50	Pk	Vertical
	17797	33	.13	10.99	43.95	43.50	44.57		54	-9.43	AV	Vertical
	17788	44.	.61	11.81	43.69	44.60	55.51		74	-18.49	Pk	Horizontal
	17788	32.	.31	11.81	43.69	44.60	43.21		54	-10.79	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)& RSS-247 5.1(d)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.

Certificate #4298.01

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:	WIFI 6 BOX	Model No.:	DB-AY
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)& RSS-247 5.1(b) 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:	WIFI 6 BOX	Model No.:	DB-AY
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)& RSS-247 5.3 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:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Certificate #4298.01

Test data reference attachment.

Note:

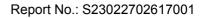
A Period Time = (channel number)*0.4

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)& RSS-247 5.1(a) and ANSI C63.10-2013

Certificate #4298.01

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:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.7 99% OCCUPIED BANDWIDTH

7.7.1 Applicable Standard

According to FCC Part 15.247(a)(1)&RSS-Gen 6.7 and ANSI C63.10-2013

Certificate #4298.01

7.7.2 Conformance Limit

No limit requirement.

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 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: Set RBW = 1-5% of 99% occupied bandwidth. Set the video bandwidth (VBW) =100 kHz. Set Span= approximately 2 to 3 times the 20 dB bandwidth Set Detector = Peak. Set Trace mode = max hold. Set Sweep = auto couple

7.7.6 Test Results

EUT:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.8 PEAK OUTPUT POWER

7.8.1 Applicable Standard

According to FCC Part 15.247(b)(1)& RSS-247 5.1(b), 5.4(a)(b) and ANSI C63.10-2013

7.8.2 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.

Certificate #4298.01

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 7.8.5.

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

7.8.6 Test Results

EUT:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.9 EQUIVALENT ISOTROPICALLY RADIATED POWER

7.9.1 Applicable Standard

NTEK 北测

According to RSS-247 5.4(b)

7.9.2 Conformance Limit

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

7.9.3 Measuring Instruments

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

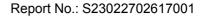
7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

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





7.9.6 Test Results

EUT:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	48% Allen Liu

ACCREDITED Certificate #4298.01

Test data reference attachment.

Note: EIRP= Peak Output Power+ ANT Gain





7.10 CONDUCTED BAND EDGE MEASUREMENT

7.10.1 Applicable Standard

According to FCC Part 15.247(d)& RSS-247 5.5 and ANSI C63.10-2013

7.10.2 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 §15.205(c)).

7.10.3 Measuring Instruments

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

7.10.4 Test Setup

Please refer to Section 6.1 of this test report.

7.10.5 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.

7.10.6 Test Results

EUT:	WIFI 6 BOX	Model No.:	DB-AY
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu





7.11 SPURIOUS RF CONDUCTED EMISSION

7.11.1 Applicable Standard

According to FCC Part 15.247(d)& RSS-247 5.5 and ANSI C63.10-2013.

7.11.2 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))& RSS-Gen.

7.11.3 Measuring Instruments

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

7.11.4 Test Setup

Please refer to Section 6.1 of this test report.

7.11.5 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.

7.11.6 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.





7.12 ANTENNA APPLICATION

7.12.1 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.

As per RSS-Gen, section 6.8 each applicant for equipment certification must provide a list of all antenna types that may be used with the transmitter, indicating the maximum permissible antenna gain (in dBi). When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements, including the antenna type used.

In addition, applicants shall perform RF power and spurious emission measurements with each antenna type supplied or specified by the manufacturer for use with the transmitter.

7.12.2 Result

The EUT antenna is permanent attached External Antenna (Gain: 2.06dBi). 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 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.

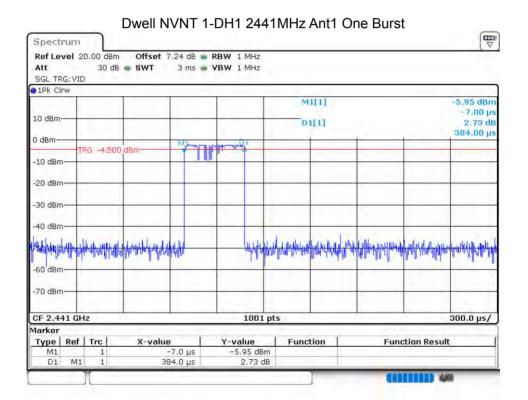




8 TEST RESULTS

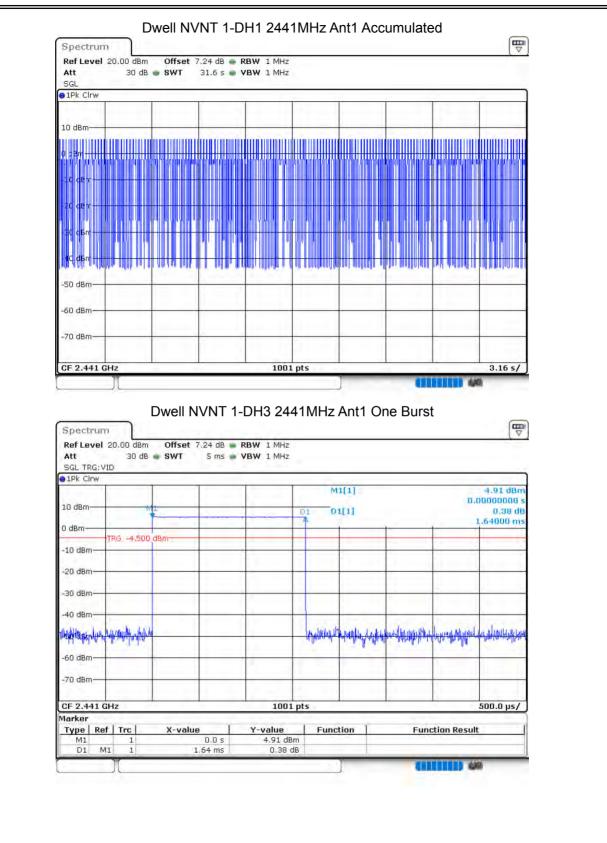
8.1 DWELL TIME

	O.1 DWELL TIME										
Condition	Mode	Frequency	Antenna	Pulse	Total	Burst	Period	Limit	Verdict		
		(MHz)		Time	Dwell	Count	Time	(ms)			
				(ms)	Time		(ms)				
					(ms)						
NVNT	1-DH1	2441	Ant1	0.384	87.168	227	31600	400	Pass		
NVNT	1-DH3	2441	Ant1	1.64	227.96	139	31600	400	Pass		
NVNT	1-DH5	2441	Ant1	2.888	268.584	93	31600	400	Pass		
NVNT	2-DH1	2441	Ant1	0.39	87.36	224	31600	400	Pass		
NVNT	2-DH3	2441	Ant1	1.64	218.12	133	31600	400	Pass		
NVNT	2-DH5	2441	Ant1	2.896	272.224	94	31600	400	Pass		
NVNT	3-DH1	2441	Ant1	0.387	86.688	224	31600	400	Pass		
NVNT	3-DH3	2441	Ant1	1.64	242.72	148	31600	400	Pass		
NVNT	3-DH5	2441	Ant1	2.888	306.128	106	31600	400	Pass		



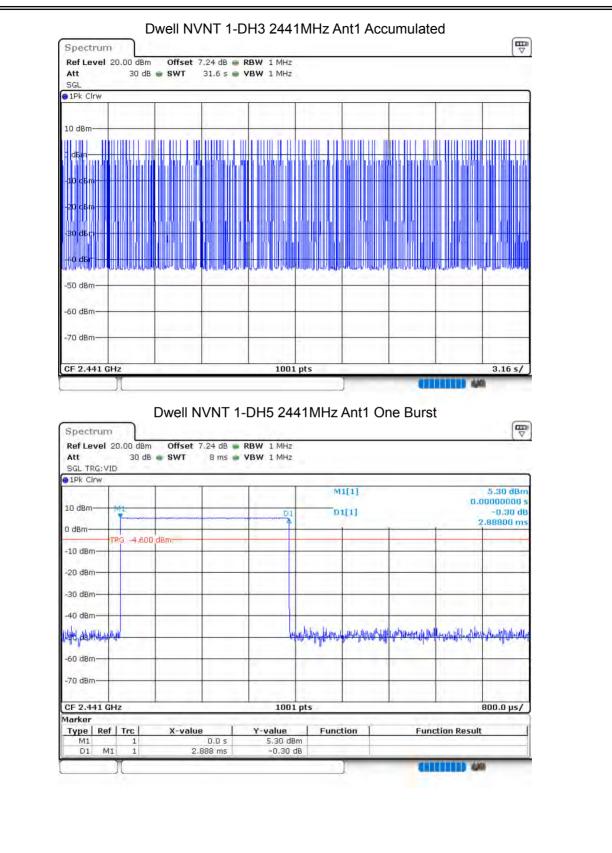






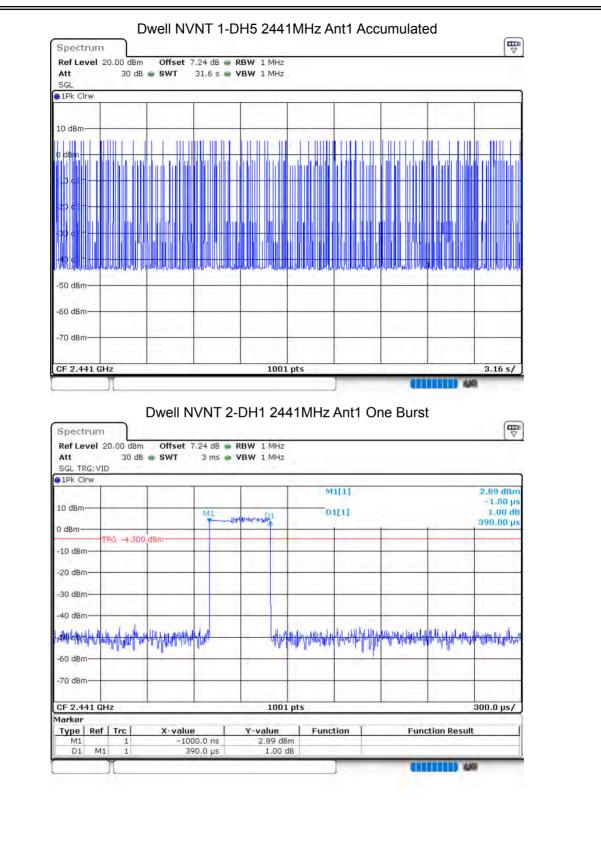






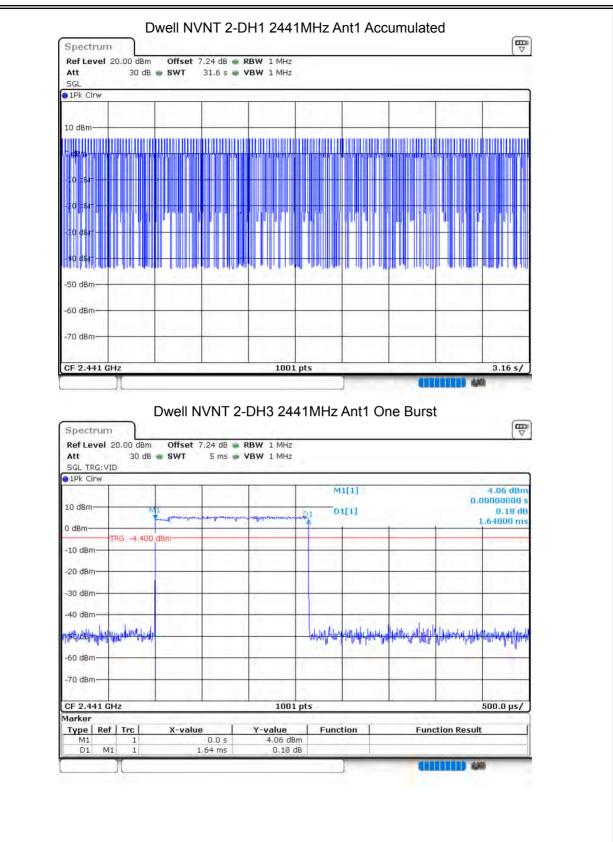






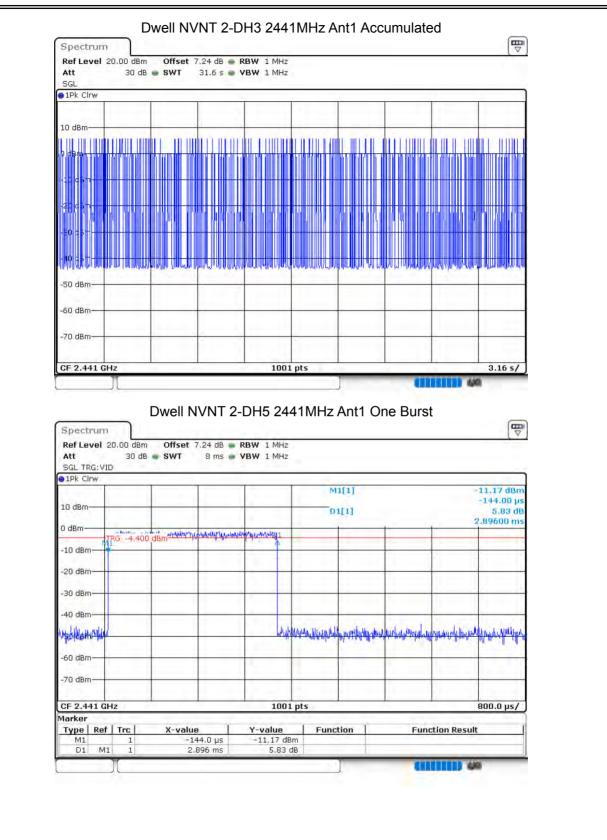






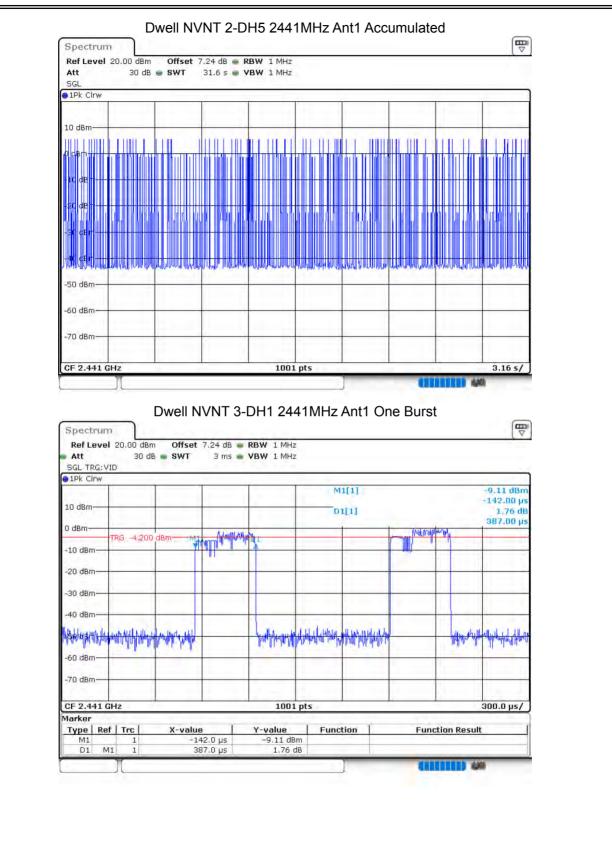








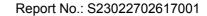


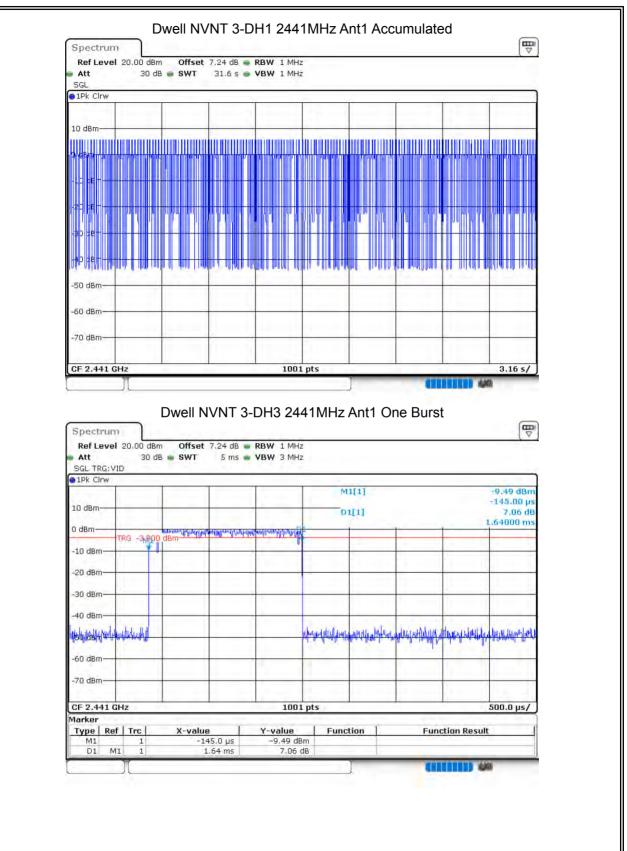




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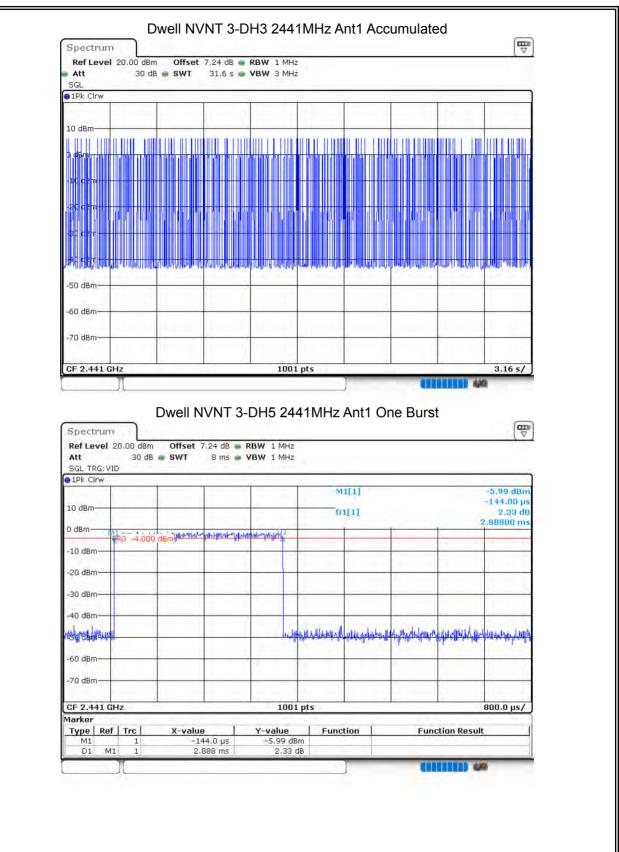
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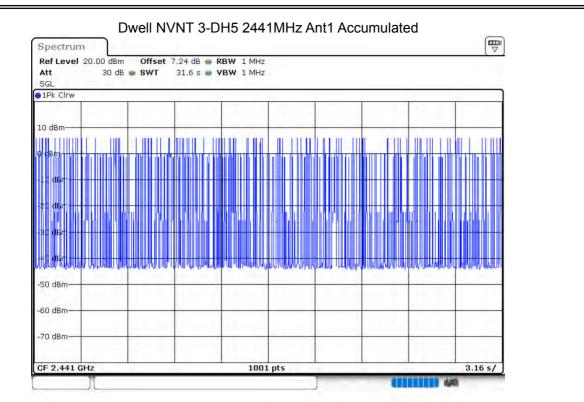








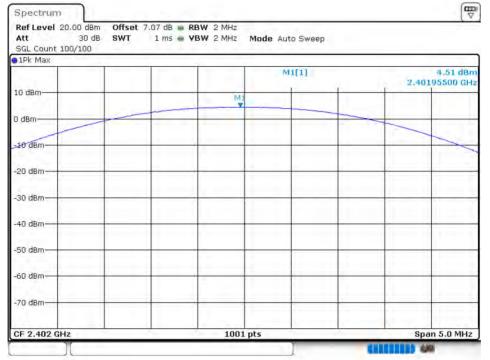






8.2 MAXIMUM CONDUCTED OUTPUT POWER									
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict			
NVNT	1-DH5	2402	Ant1	4.51	21	Pass			
NVNT	1-DH5	2441	Ant1	5.43	21	Pass			
NVNT	1-DH5	2480	Ant1	5.01	21	Pass			
NVNT	2-DH5	2402	Ant1	4.9	21	Pass			
NVNT	2-DH5	2441	Ant1	6.16	21	Pass			
NVNT	2-DH5	2480	Ant1	6.15	21	Pass			
NVNT	3-DH5	2402	Ant1	5.41	21	Pass			
NVNT	3-DH5	2441	Ant1	6.5	21	Pass			
NVNT	3-DH5	2480	Ant1	6.57	21	Pass			

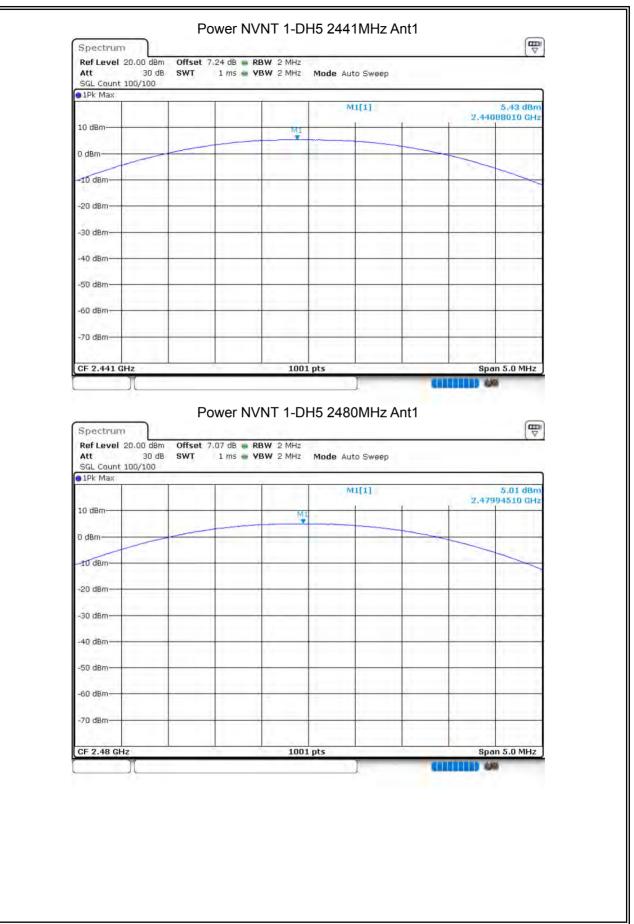
Power NVNT 1-DH5 2402MHz Ant1





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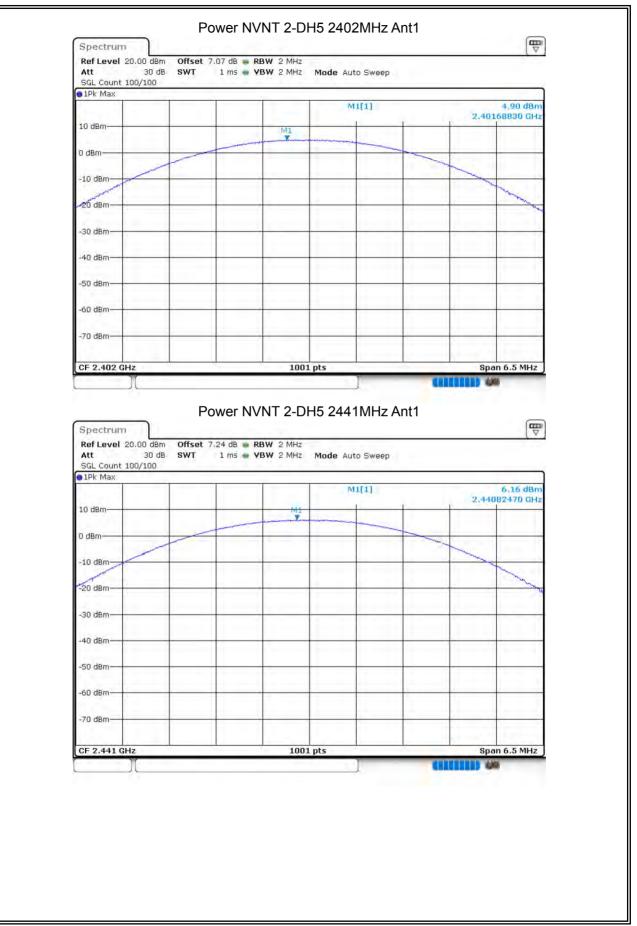
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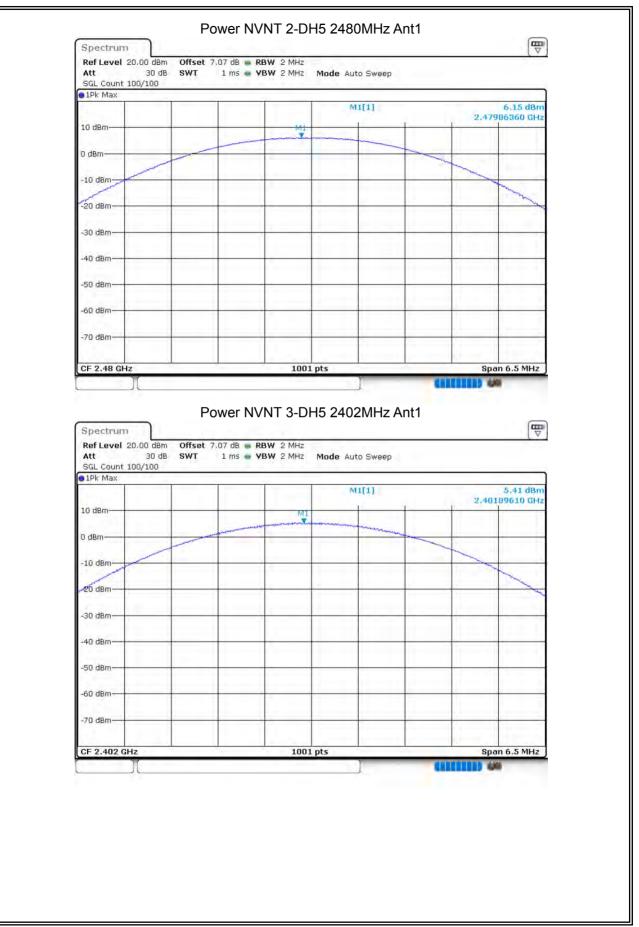
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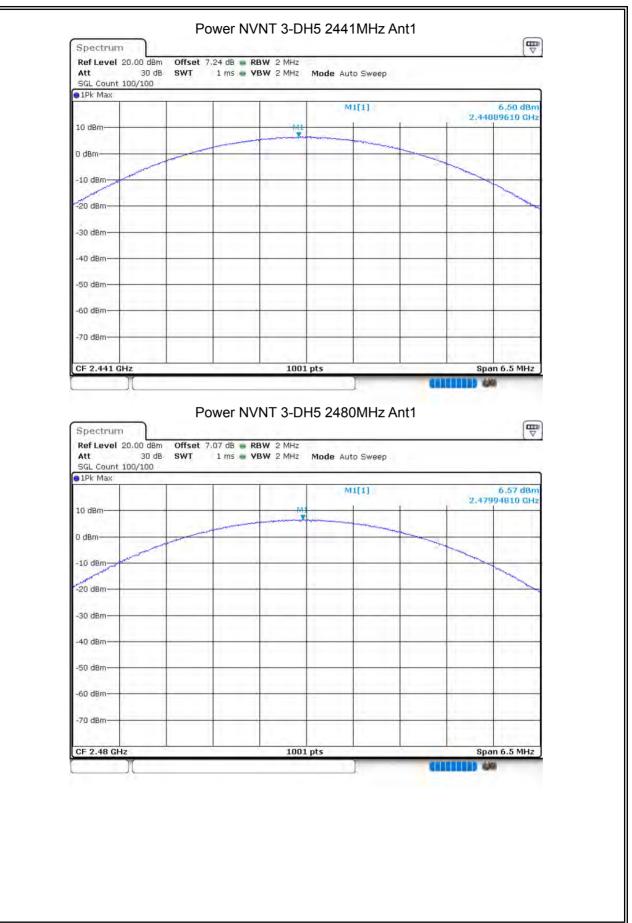
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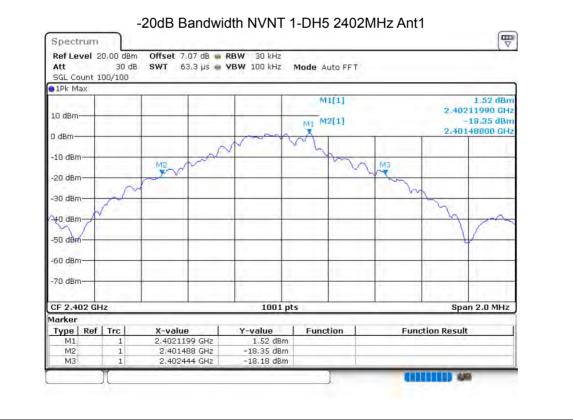




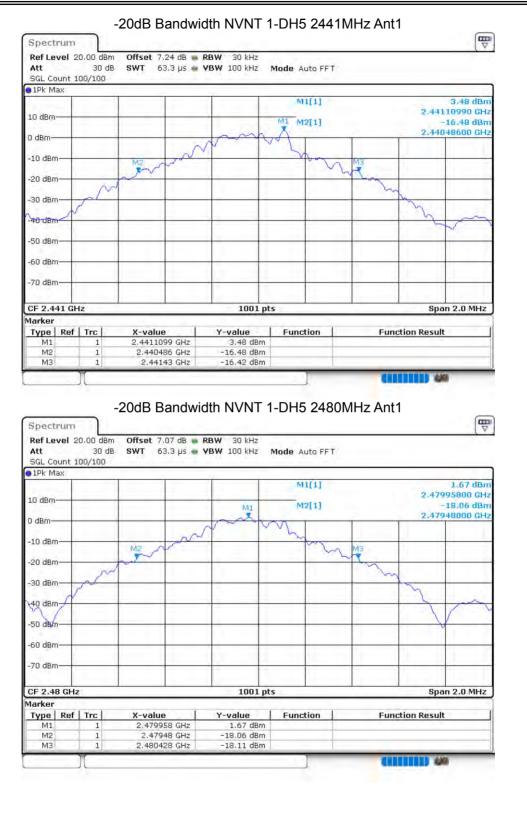
8.3 EQUIVALENT ISOTROPICALLY RADIATED POWER										
Condition	Mode	Frequency	Antenna	Conducted	Antenna	EIRP	Limit	Verdict		
		(MHz)		Power	Gain	Power	(dBm)			
				(dBm)	(dBi)	(dBm)				
NVNT	1-DH5	2402	Ant1	4.51	2.06	6.57	36	Pass		
NVNT	1-DH5	2441	Ant1	5.43	2.06	7.49	36	Pass		
NVNT	1-DH5	2480	Ant1	5.01	2.06	7.07	36	Pass		
NVNT	2-DH5	2402	Ant1	4.9	2.06	6.96	36	Pass		
NVNT	2-DH5	2441	Ant1	6.16	2.06	8.22	36	Pass		
NVNT	2-DH5	2480	Ant1	6.15	2.06	8.21	36	Pass		
NVNT	3-DH5	2402	Ant1	5.41	2.06	7.47	36	Pass		
NVNT	3-DH5	2441	Ant1	6.5	2.06	8.56	36	Pass		
NVNT	3-DH5	2480	Ant1	6.57	2.06	8.63	36	Pass		

8.4 -20DB BANDWIDTH

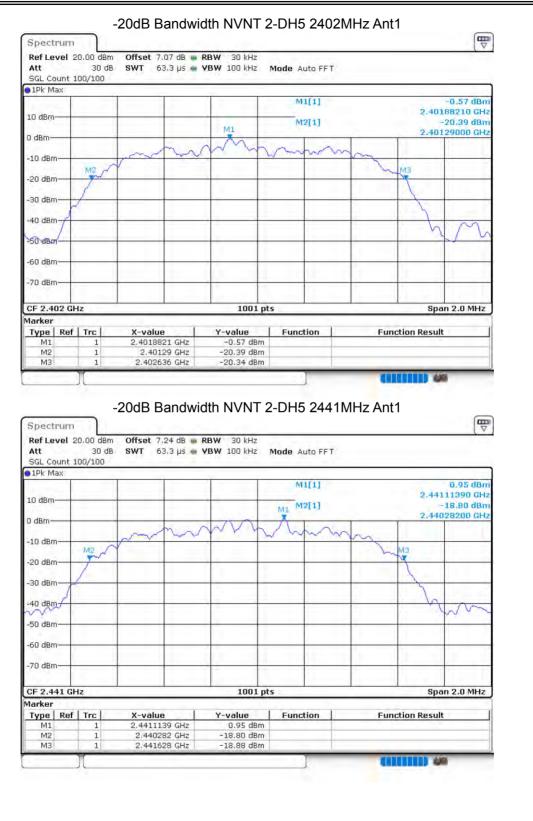
Condition	Mode	Frequency	Antenna	-20 dB	Verdict
		(MHz)		Bandwidth (MHz)	
NVNT	1-DH5	2402	Ant1	0.956	Pass
NVNT	1-DH5	2441	Ant1	0.944	Pass
NVNT	1-DH5	2480	Ant1	0.948	Pass
NVNT	2-DH5	2402	Ant1	1.346	Pass
NVNT	2-DH5	2441	Ant1	1.346	Pass
NVNT	2-DH5	2480	Ant1	1.344	Pass
NVNT	3-DH5	2402	Ant1	1.304	Pass
NVNT	3-DH5	2441	Ant1	1.308	Pass
NVNT	3-DH5	2480	Ant1	1.336	Pass





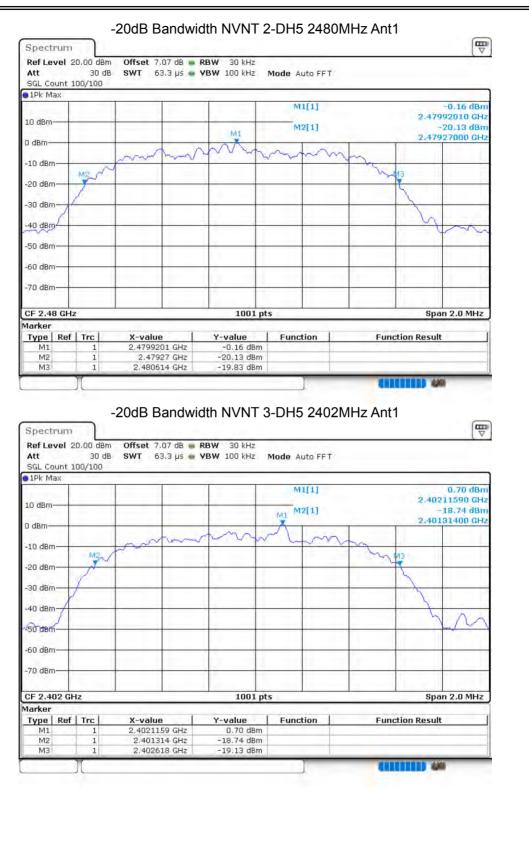




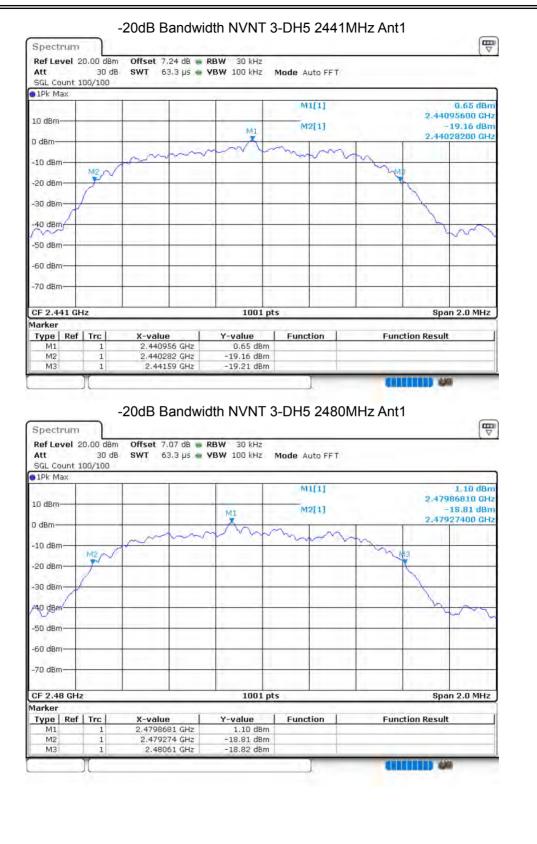




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8.5 OCCUF	8.5 OCCUPIED CHANNEL BANDWIDTH									
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)						
NVNT	1-DH5	2402	Ant1	0.885						
NVNT	1-DH5	2441	Ant1	0.885						
NVNT	1-DH5	2480	Ant1	0.895						
NVNT	2-DH5	2402	Ant1	1.205						
NVNT	2-DH5	2441	Ant1	1.211						
NVNT	2-DH5	2480	Ant1	1.199						
NVNT	3-DH5	2402	Ant1	1.199						
NVNT	3-DH5	2441	Ant1	1.207						
NVNT	3-DH5	2480	Ant1	1.227						

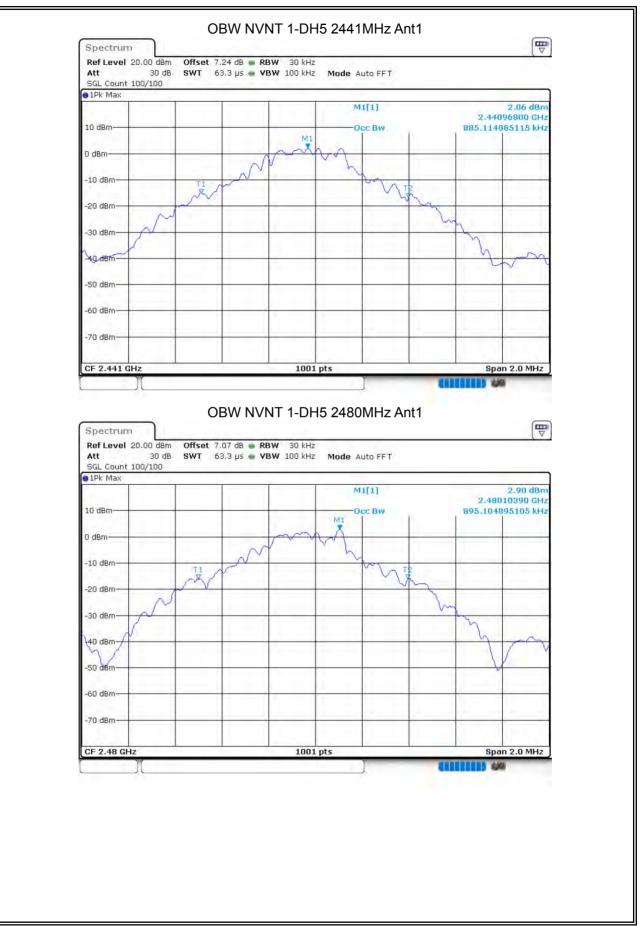


OBW NVNT 1-DH5 2402MHz Ant1



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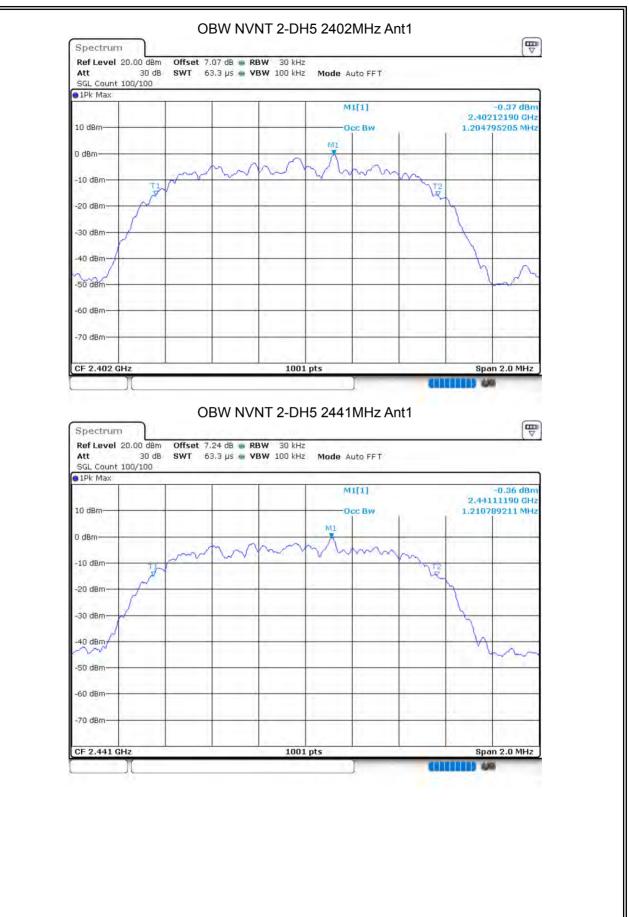
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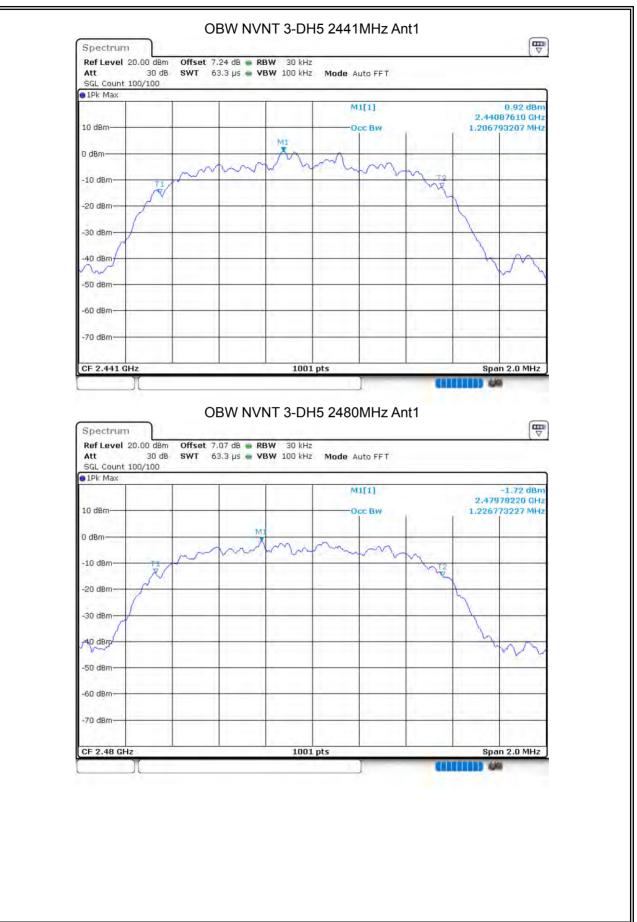




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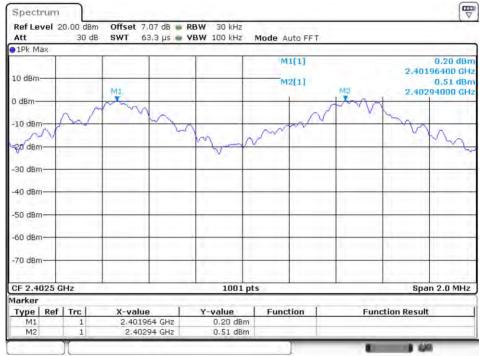
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8.6 CARRIER FREQUENCIES SEPARATION									
Condition	Mode	Antenna	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict		
			(MHz)	(MHz)	(MHz)	(MHz)			
NVNT	1-DH5	Ant1	2401.964	2402.94	0.976	0.637	Pass		
NVNT	1-DH5	Ant1	2441.012	2442.11	1.098	0.629	Pass		
NVNT	1-DH5	Ant1	2479.1	2480.102	1.002	0.632	Pass		
NVNT	2-DH5	Ant1	2401.882	2402.932	1.05	0.897	Pass		
NVNT	2-DH5	Ant1	2441.112	2442.114	1.002	0.897	Pass		
NVNT	2-DH5	Ant1	2478.92	2479.907	0.987	0.896	Pass		
NVNT	3-DH5	Ant1	2401.882	2402.884	1.002	0.869	Pass		
NVNT	3-DH5	Ant1	2440.931	2441.933	1.002	0.872	Pass		
NVNT	3-DH5	Ant1	2479.102	2480.104	1.002	0.891	Pass		

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CFS NVNT 1-DH5 2402MHz Ant1





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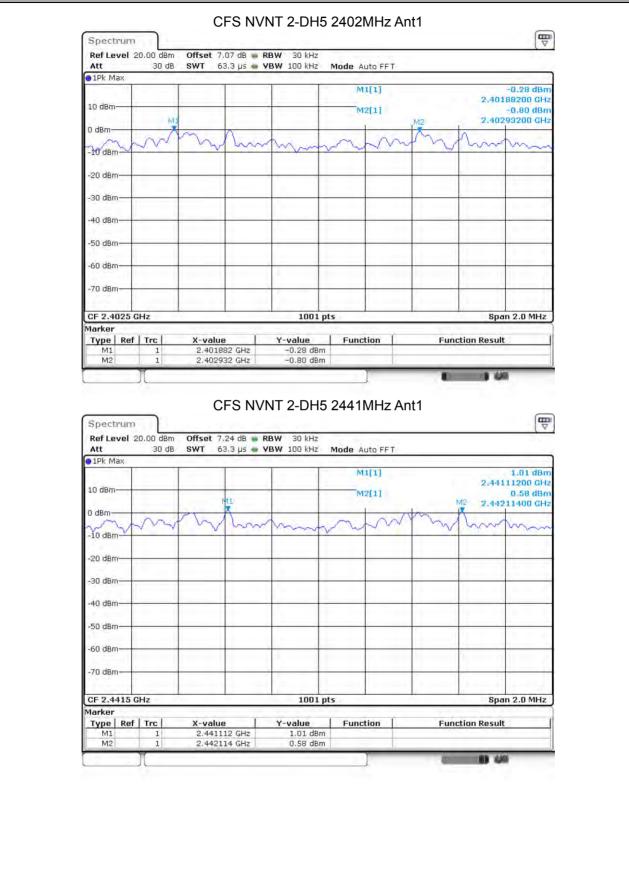
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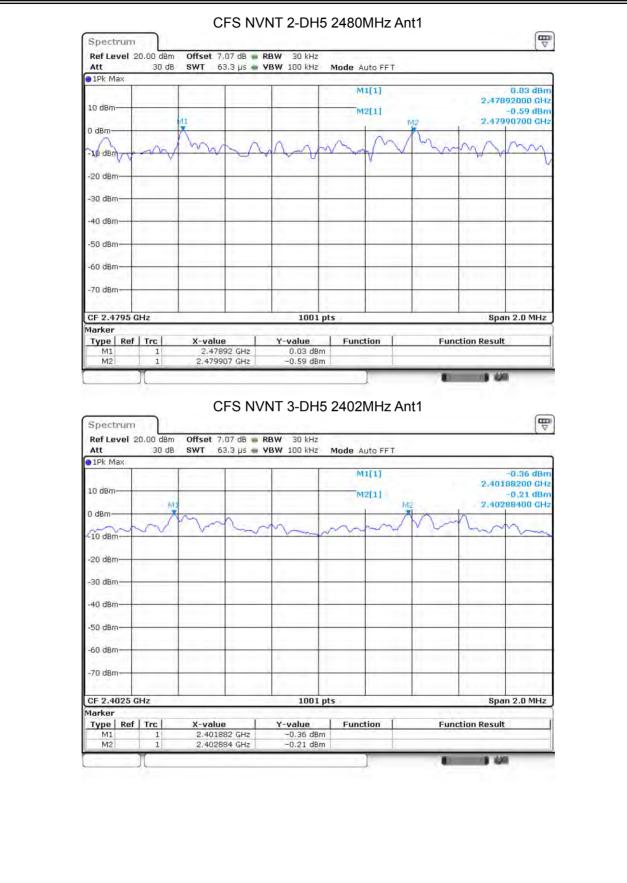
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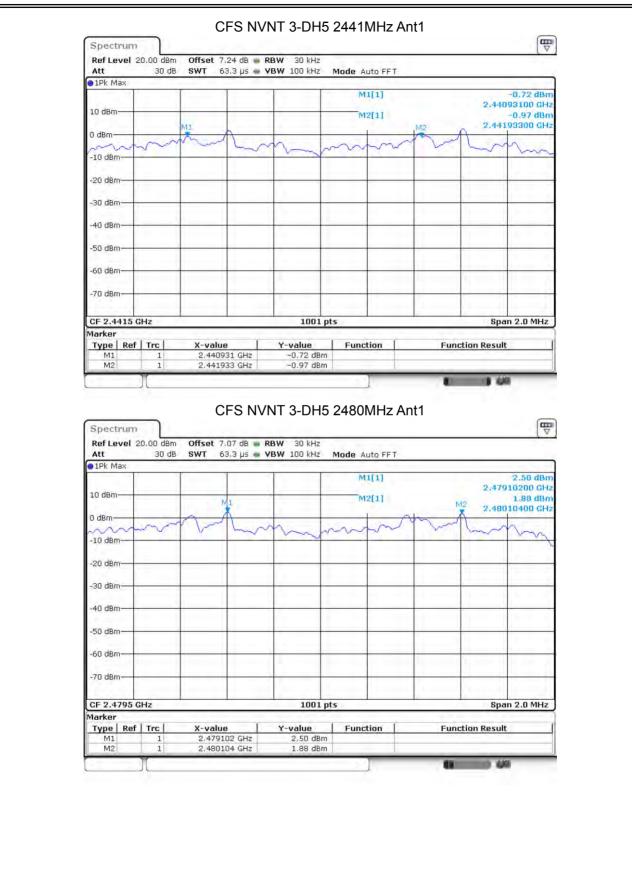




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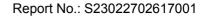
ilac-MR

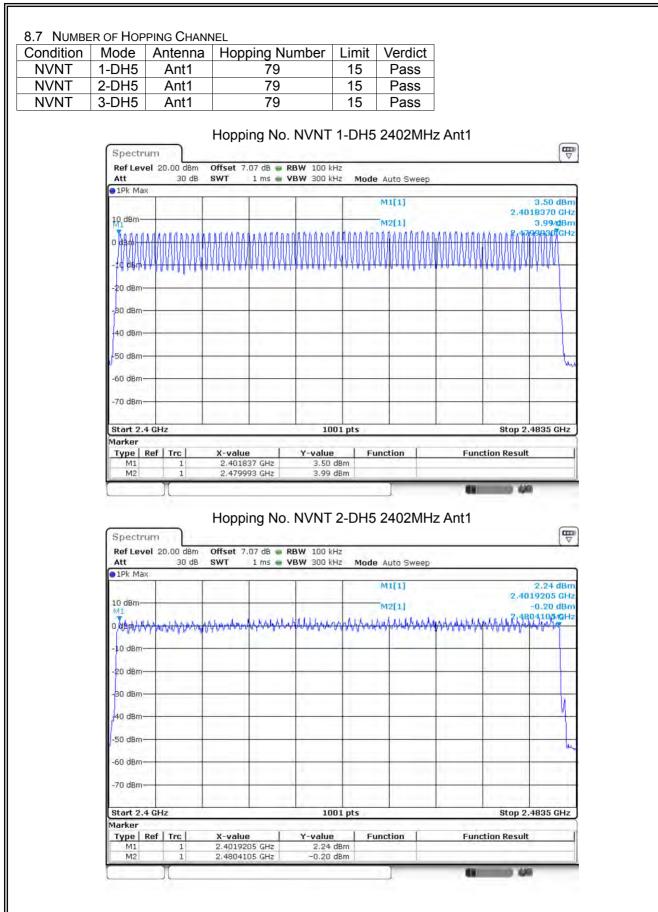




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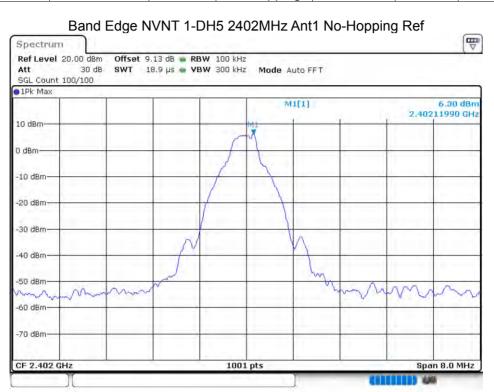


	p	Mode Auto Swee		Offset 7.07 dB 🖷 SWT 1 ms 🖷	0.00 dBm 30 dB	ef Level 2 t
					-	Pk Max
-0.82 dBm 2.4015865 GHz		M1[1]	1			
1.17 dBm		M2[1]			-	dBm-
AMAAAA2 4804105 8Hz	Add And A day	Any harn between	MAAMAAAAAAAA	A LA	LANAN	Smtr44
Madd detter de 1	a a k k a m d A A a A	a thousand a sed a s	122220 Alexand	AMAL A A MO A MARIE	AMARIAN	Hunsald
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Stop 2.4835 GHz		5	1001 pts		z	art 2.4 GH
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nction Result	Func	Function	Y-value	X-value		pe Ref
			-0.82 dBm 1.17 dBm	2.4015865 GHz 2.4804105 GHz	1	M1 M2

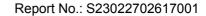


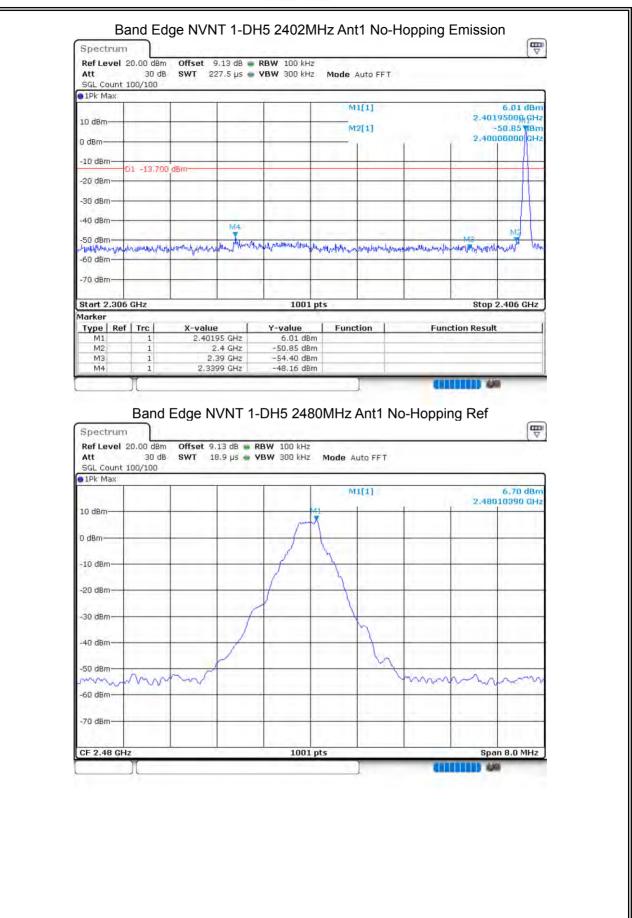
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8.8 BAND	Edge						
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.45	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.73	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-54.11	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-57.14	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.26	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-57.77	-20	Pass







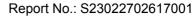


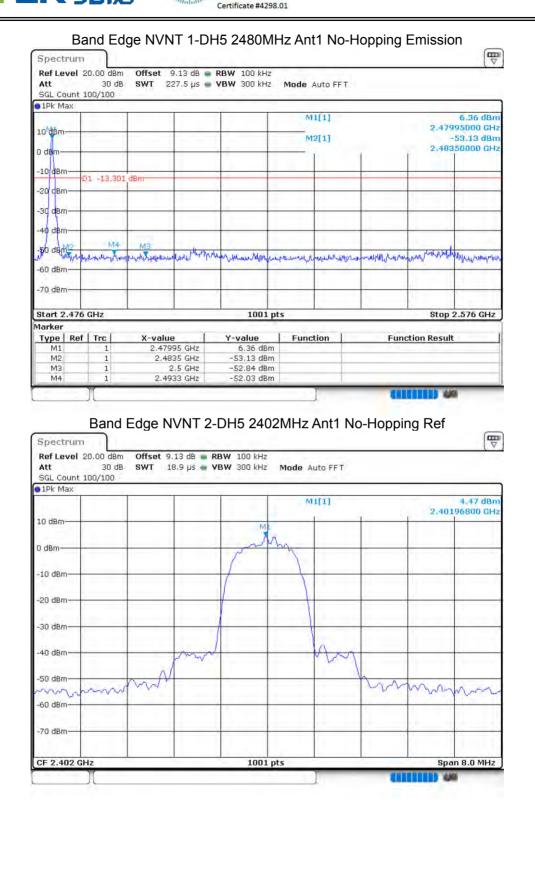
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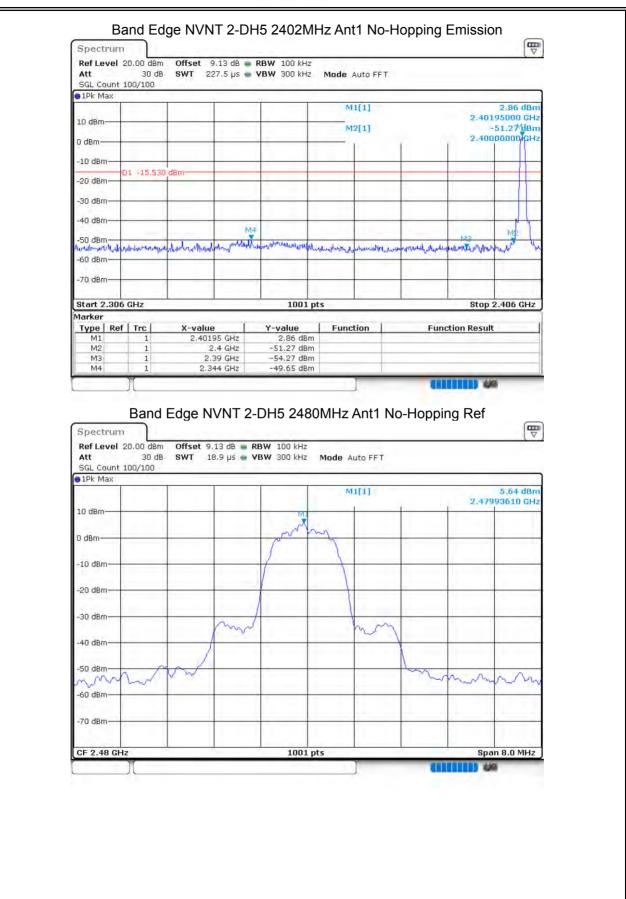
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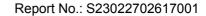


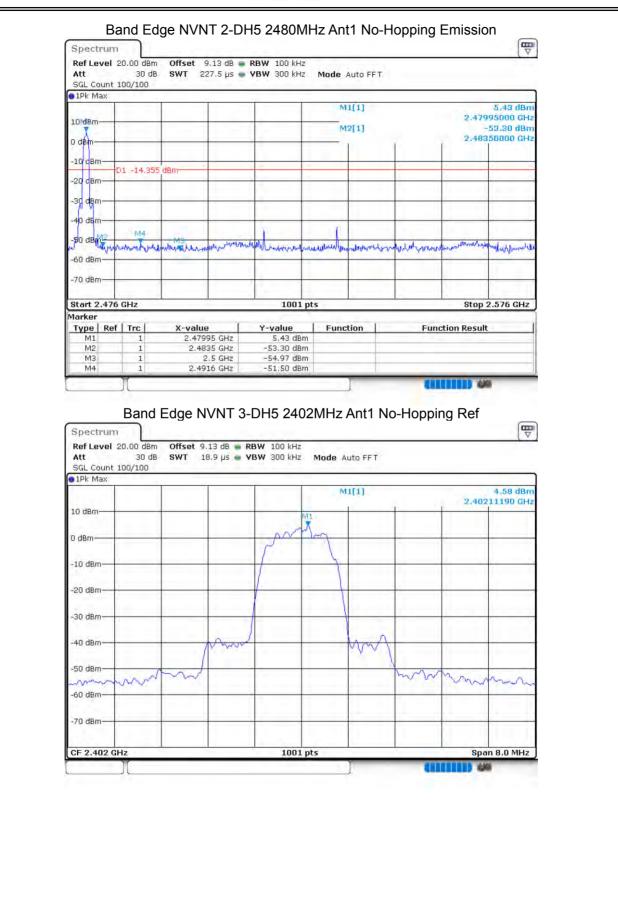
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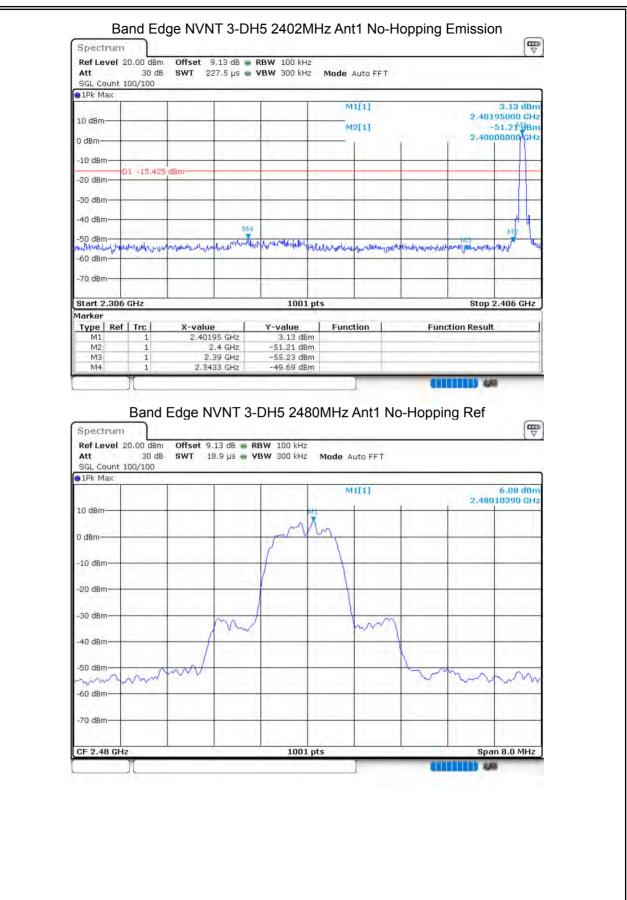
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Ref Level 2 Att	20.00 dBr 30 d		18 🖷 RBW 100 kH Us 🖷 VBW 300 kH		Auto FFT			
SGL Count 1	.00/100							
1Pk Max			1					
				M	1[1]		2.19	5.12 dBm
LONdBm-	-				1110			985000 GHz -53.05 dBm
X.				1	2[1]			350000 GHz
) dBm					1	1	1	
10 cBm								
	1 -13.91	(8 dBm		-				-
20 dBm	A			-				
			-	1.000	1.00	1.1	1	1
3C dBm				-		-		
6.1								
40 dBm								
50 dBM2	M4	MR		1.0				
Myday	Minhertorghe	multi amehourden	elonder and a stranger with the start with the stranger with the start with the stranger with the stra	anabalane my p	mallonthyllow	her worker appropriate	numationsperse	VAR alphallowish
60 dBm	1			1 1 1 1 1 1 1				
1 (C					1.1.1.1		1.0000	1
70 dBm								1
					-			
Start 2.476	GHz	-> ->	100:	l pts			Stop	2.576 GHz
larker	1.1				1.0		1.	
Type Ref	Trc	X-value	Y-value	Func	tion	Fund	tion Result	t
M1	1	2.47985 GH			1			
M2	1	2.4835 GH	the star in the star which the star is the					
M3 M4	1	2.5 GH 2.491 GH						

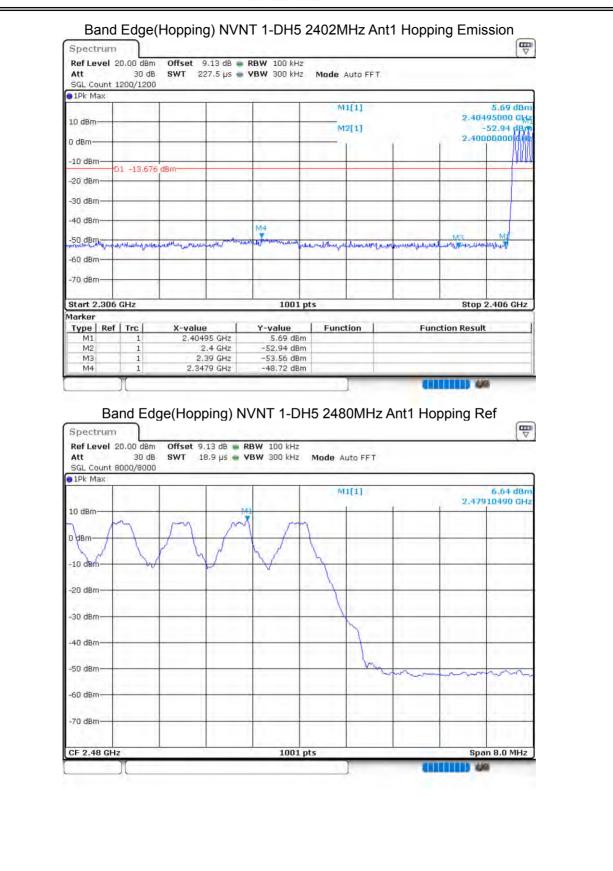


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8.9 BAND	Edge(Hop	PING)					
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH5	2402	Ant1	Hopping	-55.04	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.28	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.16	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-56.82	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.95	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.89	-20	Pass





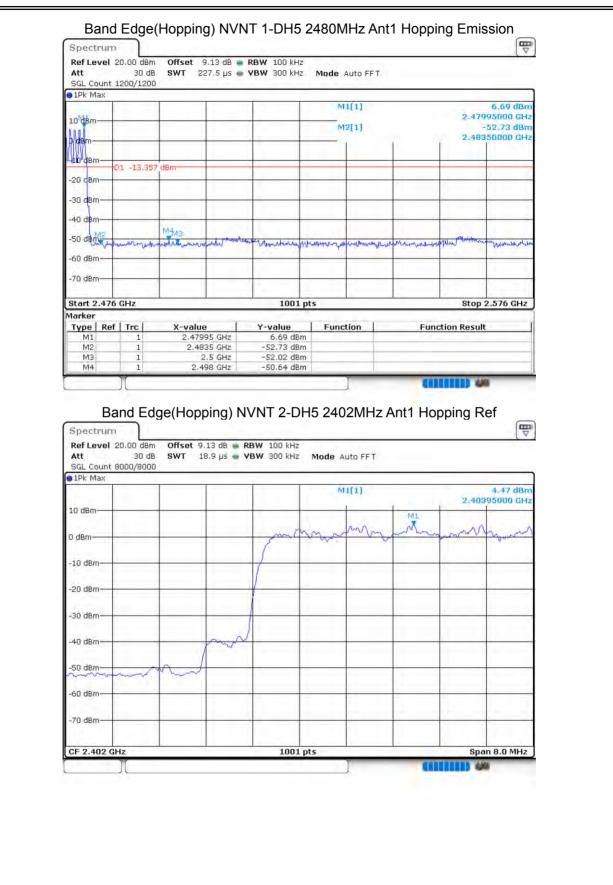


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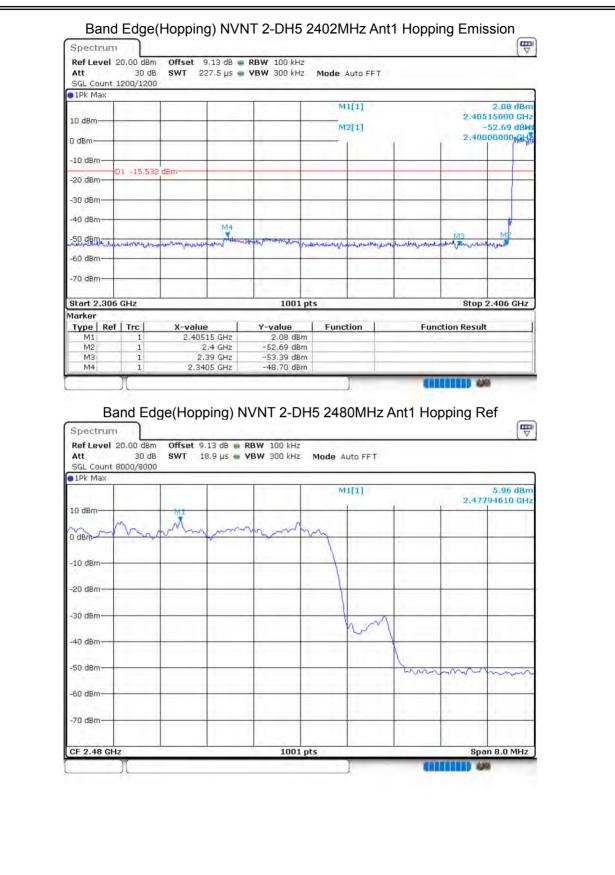
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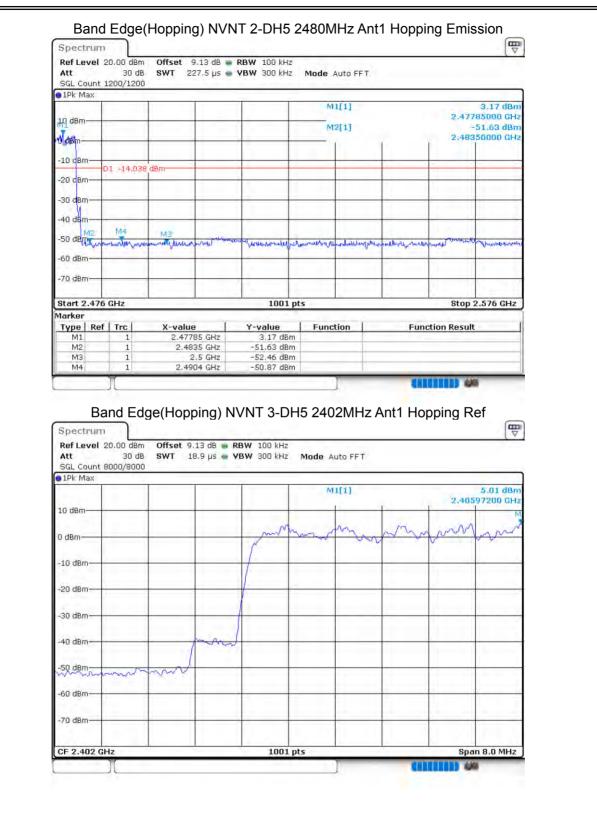


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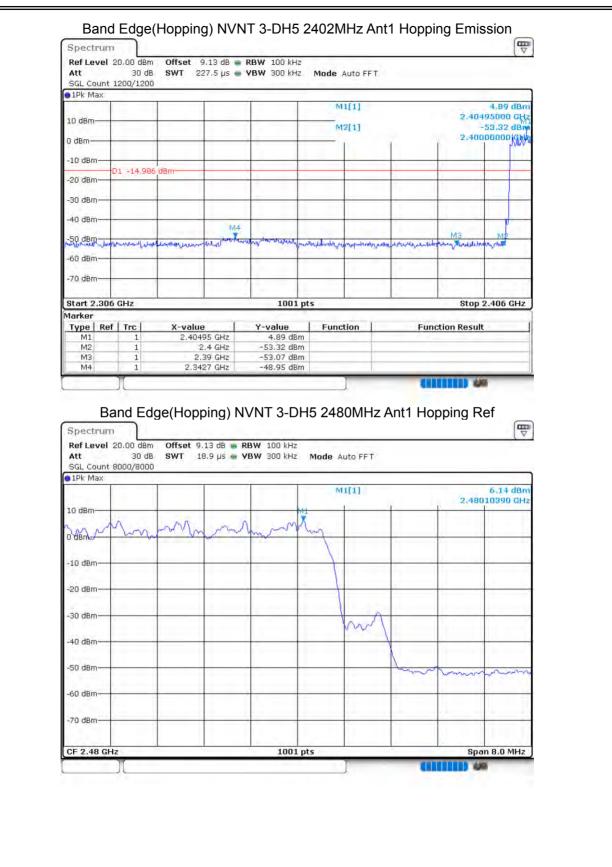


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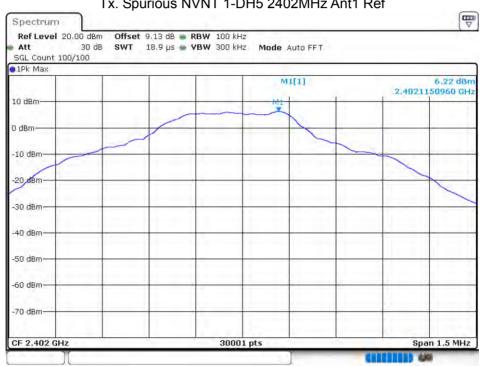
Spectrum						
Ref Level Att	20.00 dBm 30 dE			Mode Auto FFT		
SGL Count	1200/1200)				
1Pk Max	-	1	1	M1[1]		3.25 dBm
1.00				wilti	24	7605000 GHz
10 dBm	-			M2[1]		-52.70 dBm
olifism-					2.4	3350000 GHz
D. On B.						
-10 cBm-						
	D1 -13.85	7 dBm				
-20 cBm-						
-30 dBm						
-30 dBm					· · · · · · · · · · · · · · · · · · ·	
-40 dBm	-					
NAT.	M4	M3				
-50 dBm	administration	understander metters and on the second	marsh prover wither why	and the stand and the stand	estimation that would be and the work of the work	mour hand
-60 dBm-						
OU UBIN						
-70 dBm-						
		1	1			11 1
Start 2.476	i GHz	1 1	1001 pts		Stop	2.576 GHz
larker						
Type Ref	Trc	X-value	Y-value	Function	Function Resu	ilt
M1	1	2.47605 GHz	3.25 dBm			
M2	1	2.4835 GHz	-52.70 dBm			
M3	1	2.5 GHz	-52.55 dBm			
M4	1	2.4904 GHz	-49.75 dBm			



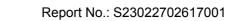
8.10 Condu	ICTED RF	SPURIOUS EMISSION				
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.12	-20	Pass
NVNT	1-DH5	2441	Ant1	-50.8	-20	Pass
NVNT	1-DH5	2480	Ant1	-50.95	-20	Pass
NVNT	2-DH5	2402	Ant1	-47.87	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.27	-20	Pass
NVNT	2-DH5	2480	Ant1	-48.84	-20	Pass
NVNT	3-DH5	2402	Ant1	-49.03	-20	Pass
NVNT	3-DH5	2441	Ant1	-48.75	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.26	-20	Pass

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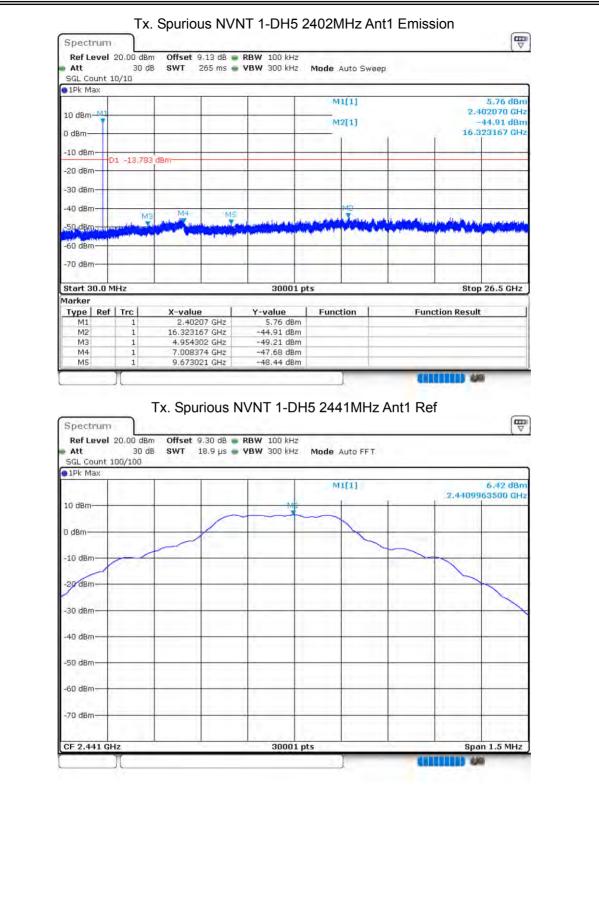
Certificate #4298.01



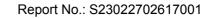
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref







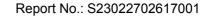


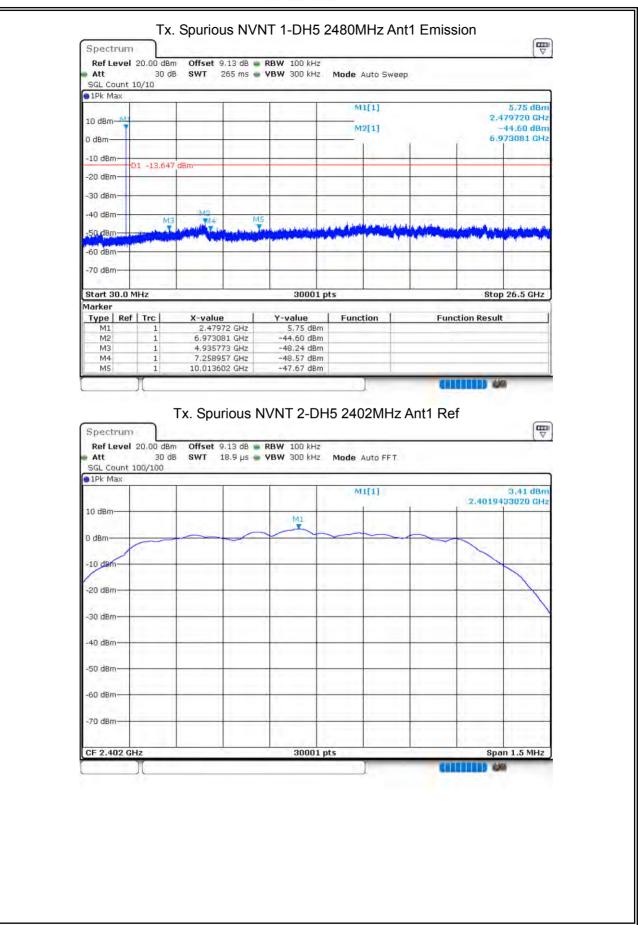


				1-1	M1[1]			6.50 dBm
10 dBm - M1				15-1	M2[1]			440900 GHz -44.39 dBm
0 dBm			1					10.	261404 GHz
-20 dBm	-13.577	dBm							
-30 dBm				-		_		1	1
-40 dBm	M3	M4	M5		M	2		1.1	1
-50 dBm porter	Land Here Y	and the	A STATE	the second state	the state		a formalis Lan	Hand the	and the second
-60 dBm		1.1.1							
-70 dBm					-		-		1
Start 30.0 MH	łz			30001	pts			Sto	p 26.5 GHz
Marker Type Ref	Trc	X-value	1	Y-value	Function	on 1	Fun	ction Resu	lt 1
M1 M2	1	2.440 16.26140	09 GHz 04 GHz	6.50 dBn -44.39 dBn					
M3 M4	1	5.0363	59 GHz	-47.95 dBn -47.86 dBn	n				
M5	1		39 GHz	-48.19 dBn					64
	0.00 dBm	Offset 9	9.13 dB 🍙	RBW 100 kHz					
 Att SGL Count 10 1Pk Max 	30 dB			RBW 100 kHz VBW 300 kHz			-		(V 6,35 dBm
SGL Count 10	30 dB				Mode Au M1[2.4800	
SGL Count 10 9 1Pk Max 10 dBm	30 dB				Mode Au			2.4800	6,35 dBm
SGL Count 10 PIPK Max 10 dBm 0 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 9 1Pk Max 10 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 PIPK Max 10 dBm 0 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 PIPk Max 10 dBm -10 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10	30 dB				Mode Au M1[2.4800	6,35 dBm
SGL Count 10	30 dB			VBW 300 kHz	Mode Au				6.35 dBm 980470 GHz
SGL Count 10	30 dB				Mode Au			Sp	6.35 dBm 980470 GHz
SGL Count 10	30 dB			VBW 300 kHz	Mode Au				6.35 dBm 980470 GHz

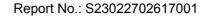
ACCREDITED Certificate #4298.01



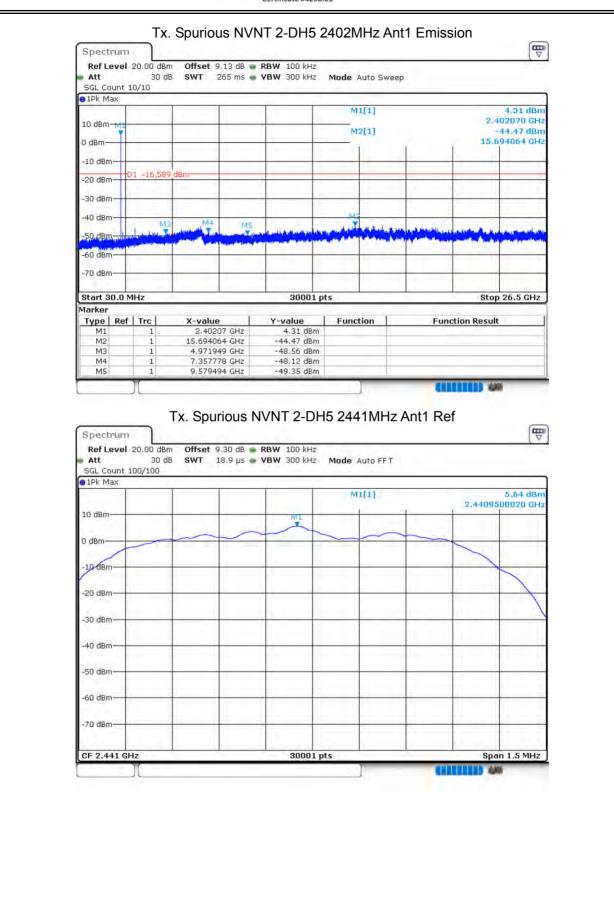


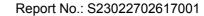


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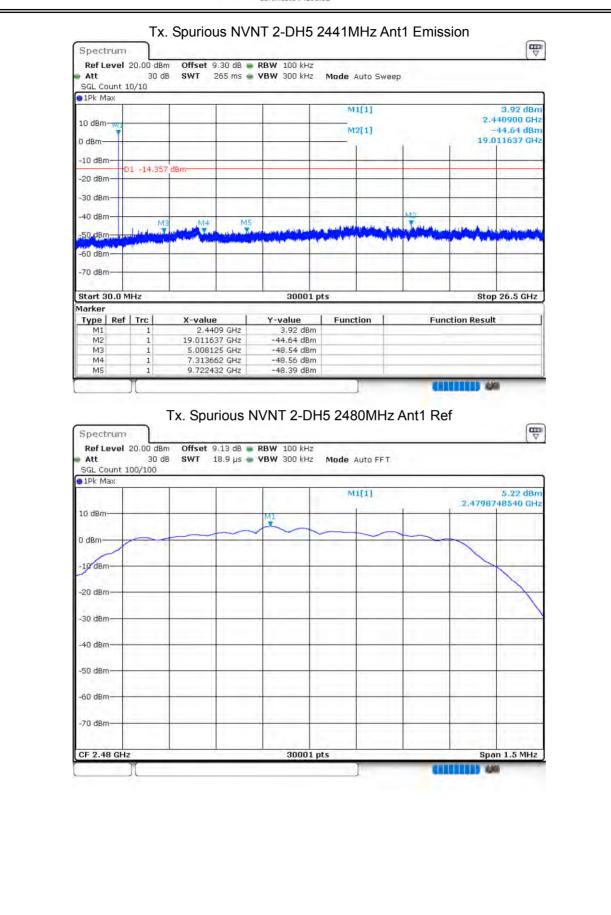


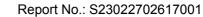






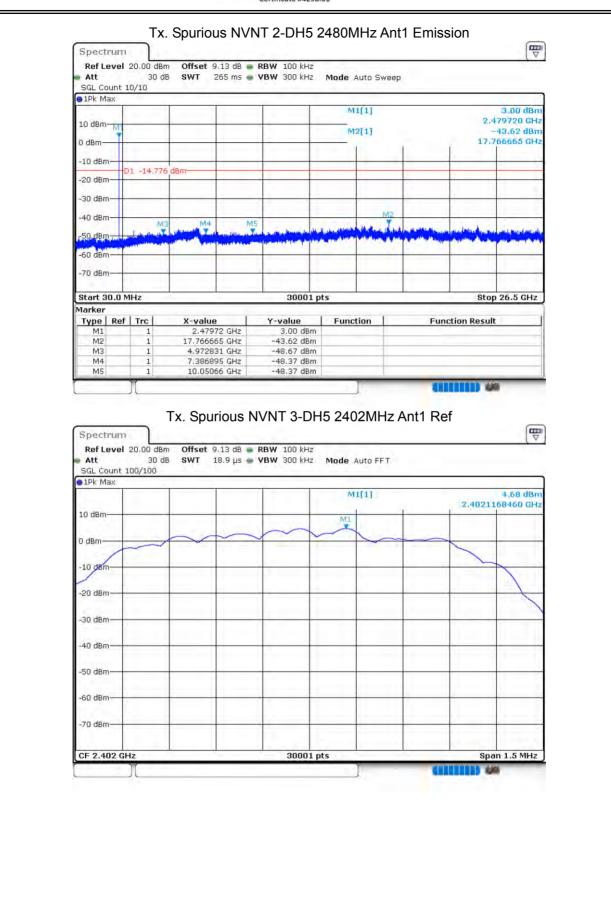
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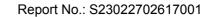




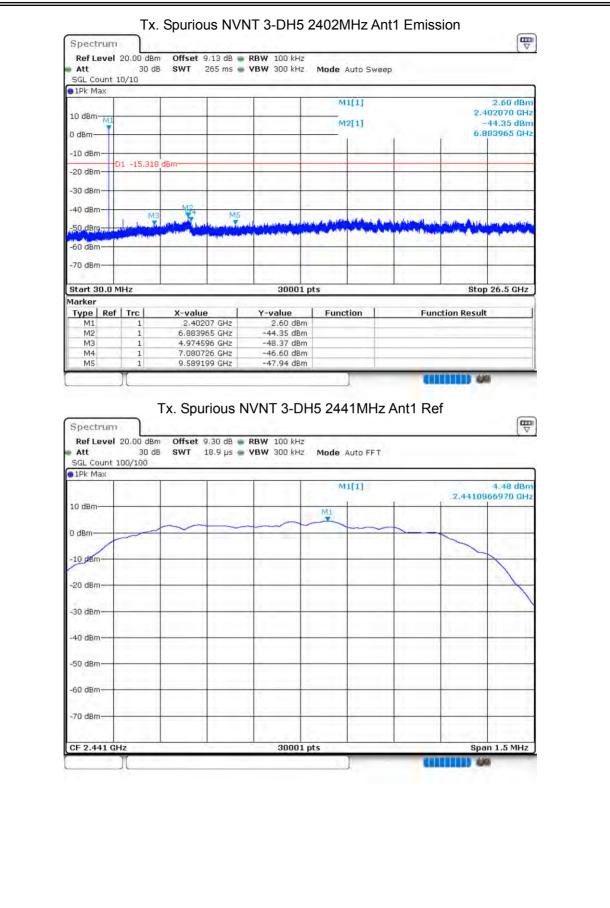


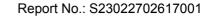
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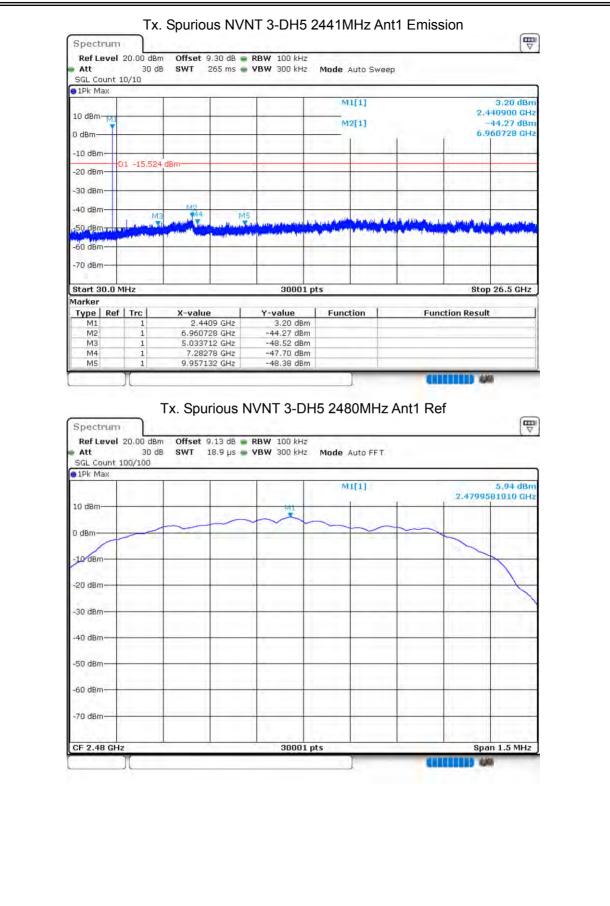














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Att SGL C		20.00 dBr 30 d		RBW 100 kHz VBW 300 kHz	Mode Auto S	weep		
D1Pk M	lax		<i></i>					
10 dBm	1413				M1[1]		2	4.17 dBm .479720 GHz ~44.32 dBm
0 dBm-	-					1	17	.756959 GHz
-10 dBr		1 -14.061	dBro					
-20 dBr		1 -14003			-			
-30 dBr	n	-						
-40 dBr		M	M4 M	5	ويعليهم وأتأستمهل وروري	M2	And the second second second	
-SQ dBr	Quinter	ter particular and the state of the			CAUSIA CONTRACTOR	Walk and A second	The start production of the start	ters annual according
-60 dBr	n							
-70 dBr	n					-		
Start 3	30.0 M	IHz		30001 p	ts		St	op 26.5 GHz
Marker		a Roman			de la sectiones a		And the second	
Туре	Ref	Trc	X-value	Y-value	Function	1	Function Resu	ult
M1	-	1	2.47972 GHz	4.17 dBm		-		
M2 M3	-	1	17.756959 GHz 5.057535 GHz	-44.32 dBm -48.13 dBm	1 <u></u>	-		
M3 M4	-	1	7.515716 GHz	-48.13 dBm		-		
DOLT.	-	1	10.028601 GHz	-47.96 dBm		1		

END OF REPORT