

# RADIO TEST REPORT FCC ID: 2BAK2-DT1LITE

Product: Tablet Trade Mark: FOSSIBOT Model No.: DT1 Lite Family Model: N/A Report No.: S23082504607001 Issue Date: Oct 08, 2023

# **Prepared for**

Shenzhen Qichang Intelligent Technology Co., Ltd Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang , Shenzhen, China

# Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-2320 0050, 0755-2320 0090 Website: http://www.ntek.org.cn





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## **1 TEST RESULT CERTIFICATION**

Shenzhen Qichang Intelligent Technology Co., Ltd
Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang , Shenzhen,China
Shenzhen Qichang Intelligent Technology Co., Ltd
Room 510, Building 7, Yunli Intelligent Park, No. 7, Bantian Street, Longgang , Shenzhen,China
Tablet
FOSSIBOT
DT1 Lite
N/A
S230825046007

## Measurement Procedure Used:

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

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

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

Date of Test	:A	ug 25, 2023 ~Oct 08, 2023	
Testing Engineer	:	Muhri Lee	
		(Mukzi Lee)	
		Here	
Authorized Signatory	:	(Alex Li)	
		(110/ 21)	



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 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	Tablet		
Trade Mark	FOSSIBOT		
FCC ID	2BAK2-DT1LITE		
Model No.	DT1 Lite		
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	IFA Antenna		
Antenna Gain	1.5 dBi		
Adapter	Model: HJ-0502000-US Input: 100-240V~50/60Hz 0.3A Output: 5.0V2.0A 10.0W		
Battery	DC 3.87V, 11000mAh, 42.57Wh		
Power supply	DC 3.87V from battery or DC 5V from adapter		
HW Version	TP729_MIAN_PCB_V1.2		
SW Version	FOSSiBOT_DT1Lite_E		

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
S23082504607001	Rev.01	Initial issue of report	Oct 08 , 2023



## 5 DESCRIPTION OF TEST MODES

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

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

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

this report.

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

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

Carrier Frequency and Channel list:

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

Note: fc=2402MHz+k×1MHz k=0 to 78

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

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

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 2Mbps 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 FLIT was programmed to be in continuous				

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



		C-1	AE-1	AC PL	UG	
	EUT		Adapter		-	
For Radiated Te	st Cases					
	EUT					
For Conducted 7	Taet Cacac					
Measuremen Instrument	t <u>C-2</u>	UT				
and this tempora	nporary antenna co ary antenna conne ilt-in battery-power	ector is listed	d in the equipm	nent list.	in order to perf	form conducted test
2. EUI Dui		eu, ແເຮ ນລະ		lgeu.		



## 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
EUT	Tablet	DT1 Lite	N/A	N/A
AE-1	Adapter	HJ-0502000-US	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	YES	1.0m
C-2	RF Cable	YES	NO	0.1m

#### Notes:

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

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# ACCREDITED Certificate #4298.01

ilac-M

## 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

## Radiation& Conducted Test equipment

		iest equipment					
	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.05.29	2024.05.28	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.16	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2023.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.04	2023.11.03	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2023.05.29	2024.05.28	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz )	N/A	R-02	N/A	2022.06.17	2025.06.16	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	2023.03.26	2026.03.25	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	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	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.





## 7 TEST REQUIREMENTS

## 7.1 CONDUCTED EMISSIONS TEST

## 7.1.1 Applicable Standard

According to FCC Part 15.207(a)

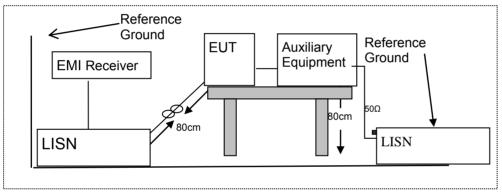
### 7.1.2 Conformance Limit

	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:	Tablet	Model Name :	DT1 Lite
Temperature:	<b>22</b> ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

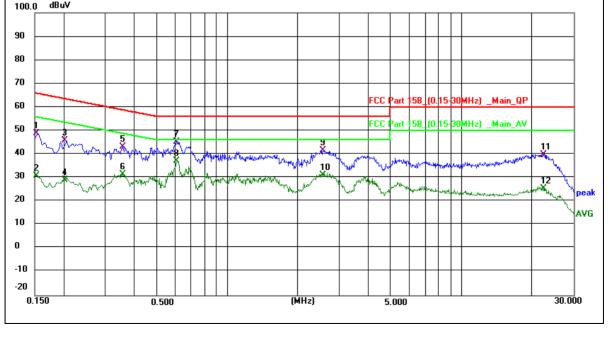
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	38.77	9.93	48.70	65.79	-17.09	QP
0.1539	20.93	9.93	30.86	55.79	-24.93	AVG
0.2020	35.95	10.03	45.98	63.53	-17.55	QP
0.2020	18.91	10.03	28.94	53.53	-24.59	AVG
0.3557	32.84	10.36	43.20	58.83	-15.63	QP
0.3557	21.07	10.36	31.43	48.83	-17.40	AVG
0.6060	34.33	10.87	45.20	56.00	-10.80	QP
0.6060	26.29	10.87	37.16	46.00	-8.84	AVG
2.5620	32.02	9.67	41.69	56.00	-14.31	QP
2.5620	21.51	9.67	31.18	46.00	-14.82	AVG
22.3500	30.16	9.68	39.84	60.00	-20.16	QP
22.3500	15.86	9.68	25.54	50.00	-24.46	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.

100.0 dBu¥



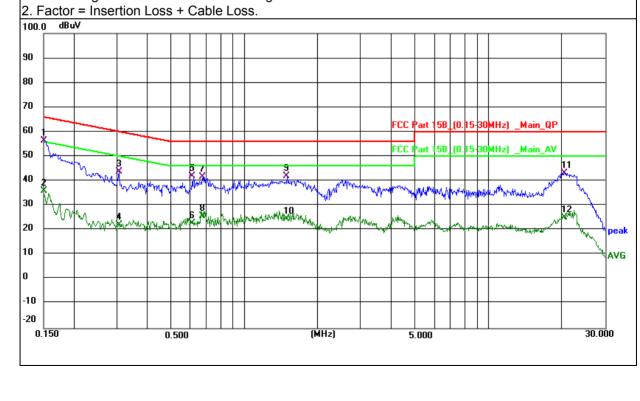


EUT:	Tablet	Model Name :	DT1 Lite
Temperature:	<b>25</b> ℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1507	46.27	9.93	56.20	65.96	-9.76	QP
0.1507	25.92	9.93	35.85	55.96	-20.11	AVG
0.3060	33.42	10.26	43.68	60.08	-16.40	QP
0.3060	11.87	10.26	22.13	50.08	-27.95	AVG
0.6107	31.23	10.87	42.10	56.00	-13.90	QP
0.6107	11.94	10.87	22.81	46.00	-23.19	AVG
0.6740	30.60	10.99	41.59	56.00	-14.41	QP
0.6740	14.90	10.99	25.89	46.00	-20.11	AVG
1.4940	29.17	12.64	41.81	56.00	-14.19	QP
1.4940	11.82	12.64	24.46	46.00	-21.54	AVG
20.4220	33.50	9.71	43.21	60.00	-16.79	QP
20.4220	15.35	9.71	25.06	50.00	-24.94	AVG

## Remark:

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





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

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

	Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
Γ	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.

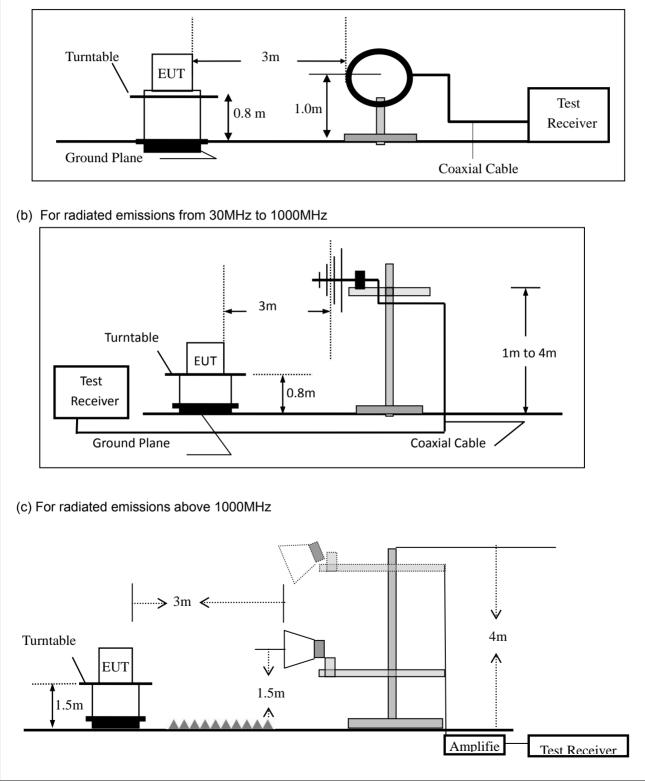


## 7.2.3 Measuring Instruments

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

## 7.2.4 Test Configuration

## (a) For radiated emissions below 30MHz





## 7.2.5 Test Procedure

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

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

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

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

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

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



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		
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.

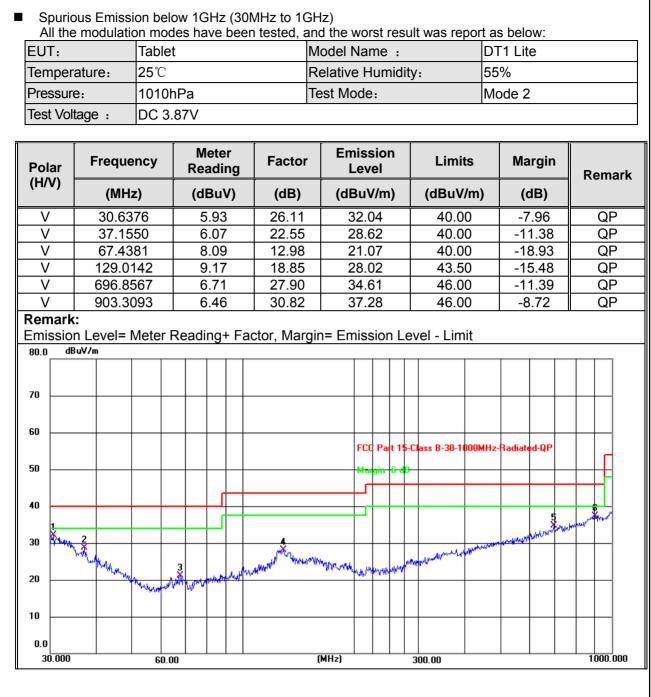
## 7.2.6 Test Results

EUT:	Tablet	Model No.:	DT1 Lite
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

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

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









Pola		Frequency			M Rea	ete adi		F	acto	or	Em L	niss .ev		า		Lin	nits	5	Ma	argir	۱	Re	ema	ark
(H/\	″	(Mł	Hz)		(dl	Bu	<b>V)</b>		(dB	)	(dE	BuV	//m	)		(dBu	V/r	n)	(	dB)				
Н		30.4	237		5	.71			26.2	3	3	1.9	)4			40	.00		-8	3.06			QF	)
Н		35.2	511		5	.68	}		23.5	6	2	9.2	24			40.	.00		-1	0.76	j –		QF	)
Н		108.6				.64			18.2		2	24.9	90			43	.50			8.60			QF	
Н		148.4				.94			18.5			24.5				43				9.00			QF	
Н		504.7				.77			24.9			2.7				46				3.30	)		QF	
H Rem		866.0	0880		6	.58	}		30.4	0	3	6.9	98			46	.00		-6	9.02			QF	)
80.0	dBu∖	Level= //m																						
70																								
60 -																								
50 -												FCC Mar		t 15 <del>G e</del>	-Cla	ass B-30	-100	OMHz	-Radia	ted-QP			ſ	
40						ſ							<b>.</b>											
ŀ	2					ſ												. 4	5	a where a start	a dome	<b></b> , <mark>&gt;</mark> ,	and w	
30	A A	Hur With Same				Lube	WWW W	3 \\	1 million and	A MANA	man	knstu	معد	wh	vw	NAMILA	, marrie	N. A. ANY						
20 -			and wand	au nadaying	WWW	4 <sup>42-00</sup>					<u>- 104 - 14</u>		- Ar											
10																								
0.0	000			0.00						(h	(Hz)				20	0.00							000.	 000



Report No.: S23082504607001

Spurious	Emissior	Above 1	GHz (1GH	z to 250	GHz)		-							
EUT:	Tal	olet		Мо	del No.:		DT1 Lite							
Temperature	: 20	°C		Rel	ati ve Humidit	y:	48%							
Test Mode:	Мо	de2/Mod	e3/Mode4	Tes	t By:		Mukzi	Lee						
All the modul	ation mod	es have	been teste		d the worst result was report as below:									
				-,			- 1							
Frequency	Read Level			Pream Factor		Lir	mits	Margin	Remark	Comment				
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dB	µV/m)	(dB)						
		L	ow Channel	(2402 N	lHz)( π/4-DQPS	SK)A	bove 1	G						
4804	69.75	5.21	35.59	44.30	66.25	74	1.00	-7.75	Pk	Vertical				
4804	47.77	5.21	35.59	44.30	44.27	54	4.00	-9.73	AV	Vertical				
7206	68.64	6.48	36.27	44.60	66.79	74	1.00	-7.21	Pk	Vertical				
7206	48.97	6.48	36.27	44.60	47.12	54	1.00	-6.88	AV	Vertical				
4804	70.41	5.21	35.55	44.30	66.87	74	4.00	-7.13	Pk	Horizontal				
4804	45.03 5.21		35.55	44.30	41.49	54	54.00 -12.51		AV	Horizontal				
7206	68.25	6.48	36.27	44.52	66.48	74	1.00	-7.52	Pk	Horizontal				
7206	48.72	6.48	36.27	44.52	46.95	54	1.00	-7.05	AV	Horizontal				
	Mid Channel (2441 MHz)( π/4-DQPSK)Above 1G													
4882	70.99	5.21	35.66	44.20	67.66	74	1.00	-6.34	Pk	Vertical				
4882	49.23	5.21	35.66	44.20	45.90	54.00		-8.10	AV	Vertical				
7323	69.08	7.10	36.50	44.43	68.25	74	1.00	-5.75	Pk	Vertical				
7323	49.76	7.10	36.50	44.43	48.93	54	1.00	-5.07	AV	Vertical				
4882	68.32	5.21	35.66	44.20	64.99	74	1.00	-9.01	Pk	Horizontal				
4882	47.34	5.21	35.66	44.20	44.01	54	1.00	-9.99	AV	Horizontal				
7323	68.09	7.10	36.50	44.43	67.26	74	1.00	-6.74	Pk	Horizontal				
7323	46.88	7.10	36.50	44.43	46.05	54	1.00	-7.95	AV	Horizontal				
		Н	igh Channel	l (2480 N	Hz)( π/4-DQP	SK) A	Above	1G						
4960	70.91	5.21	35.52	44.21	67.43	74	4.00	-6.57	Pk	Vertical				
4960	46.01	5.21	35.52	44.21	42.53	54	1.00	-11.47	AV	Vertical				
7440	68.11	7.10	36.53	44.60	67.14	74	1.00	-6.86	Pk	Vertical				
7440	48.2	7.10	36.53	44.60	47.23	54	4.00	-6.77	AV	Vertical				
4960	68.11	5.21	35.52	44.21	64.63	74	4.00 -9.37		Pk	Horizontal				
4960	47.9	5.21	35.52	44.21	44.42	54	54.00 -9.58		AV	Horizontal				
7440	70.21	7.10	36.53	44.60	69.24	74	1.00	-4.76	Pk	Horizontal				
7440	50.21	7.10	36.53	44.60	49.24	54	1.00	-4.76	AV	Horizontal				

Note:

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



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■ Spuri	ious I	Emission ir	n Restric	ted Band	<u>231</u> 0	)-239	0MHz and 2	2483.	5-250	0MHz					
EUT:		Tablet			r	Mode	l No.:		DT1 I	Lite					
Tempera	ture:	<b>20</b> ℃			F	Relative Humidity:				48%					
Test Mod	le:	Mode2/ M	ode4		٦	Test By:				i Lee					
All the m	nodul	ation mode	s have	been teste	ed, ar	nd the worst result was report as below:									
Frequ	ency	Meter Reading	Cable Loss	Antenna Factor		eamp Emission actor Level		Lin	mits Margin		Detector	Comment			
(MF	łz)	(dBµV)	(dB)	dB/m	(d	B)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре				
		1		2Mb	ps(π/	4-DQ	PSK)-Non-ho	opping	1						
2310	0.00	68.84	2.97	27.80	43	.80	55.81	7	4	-18.19	Pk	Horizontal			
2310	0.00	50.68	2.97	27.80	43	.80	37.65	5	4	-16.35	AV	Horizontal			
2310	00.0	70.26	2.97	27.80	43	.80	57.23	7	4	-16.77	Pk	Vertical			
2310	00.0	46.15	2.97	27.80	43	.80	33.12	5	4	-20.88	AV	Vertical			
2390	00.0	70.4	3.14	27.21	43	.80	56.95	7	4	-17.05	Pk	Vertical			
2390	00.0	47.42	3.14	27.21	43	.80	33.97	54		-20.03	AV	Vertical			
2390	00.0	69.26	3.14	27.21	43	.80	55.81	31 74		-18.19	Pk	Horizontal			
2390	00.0	48.79	3.14	27.21	43	.80	35.34	5	4	-18.66	AV	Horizontal			
2483	3.50	68.56	3.58	27.70	44	.00	55.84	74		-18.16	Pk	Vertical			
2483	3.50	48.12	3.58	27.70	44	.00	35.40	5	4	-18.60	AV	Vertical			
2483	8.50	68.38	3.58	27.70	44	.00	55.66	7	4	-18.34	Pk	Horizontal			
2483	8.50	46.33	3.58	27.70	44	.00	33.61	5	4	-20.39	AV	Horizontal			
				2N	/bps(	(π/4-D	QPSK)-hop	oing							
2310	0.00	69.56	2.97	27.80	43	.80	56.53	7	4	-17.47	Pk	Horizontal			
2310	0.00	45.43	2.97	27.80	43	.80	32.40	5	4	-21.60	AV	Horizontal			
2310	0.00	70.23	2.97	27.80	43	.80	57.20	7	4	-16.80	Pk	Vertical			
2310	0.00	45.81	2.97	27.80	43	.80	32.78	5	4	-21.22	AV	Vertical			
2390	0.00	68.78	3.14	27.21	43	.80	55.33	7	4	-18.67	Pk	Vertical			
2390	0.00	49.87	3.14	27.21	43	.80	36.42	5	4	-17.58	AV	Vertical			
2390	0.00	70.38	3.14	27.21	43	.80	56.93	7	4	-17.07	Pk	Horizontal			
2390	0.00	45.66	3.14	27.21	43	.80	32.21	5	4	-21.79	AV	Horizontal			
2483	8.50	69.12	3.58	27.70	44	.00	56.40	7	4	-17.60	Pk	Vertical			
2483	8.50	49.81	3.58	27.70	44	.00	37.09	5	4	-16.91	AV	Vertical			
2483	3.50	69.91	3.58	27.70	44	4.00 57.19			4	-16.81	Pk	Horizontal			
2483	8.50	45.82	3.58	27.70	44	.00	33.10	5	4	-20.90	AV	Horizontal			

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



EUT:	Та	blet			Mode	l No.:		DT1 Lite					
emperature	20	°C			Relati	ve Humidity	/:	48%					
est Mode:	Mo	de2/ Mod	e4		Test E	est By: Mukzi Lee							
All the modu	lation mo	ed, a	nd the	e worst resu	ılt wa	s repo	rt as belo	W:					
Frequency	Reading Level	Cable Loss	Antenna Factor		eamp actor	Emission Level	Limits		Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(0	dB)	(dBµV/m)	(dB	uV/m)	(dB)	Туре			
3260	68.93	4.04	29.57	44	4.70	57.84	74		-16.16	Pk	Vertical		
3260	3260 46.6 4.04 29.57		29.57	44	4.70	35.51	54		-18.49	AV	Vertical		
3260	69.29	4.04	29.57	44	4.70	58.20	74		-15.80	Pk	Horizonta		
3260	48.81	4.04	29.57	44	4.70	37.72	54		-16.28	AV	Horizonta		
3332	69.03	4.26	29.87	44	4.40	58.76	-	74	-15.24	Pk	Vertical		
3332	49.21	4.26	29.87	44	4.40	38.94	ł	54	-15.06	AV	Vertical		
3332	69.48	4.26	29.87	44	4.40	59.21		74	-14.79	Pk	Horizonta		
3332	50.64	4.26	29.87	44	4.40	40.37	4	54	-13.63	AV	Horizonta		
17797	55.16	10.99	43.95	43	3.50	66.60	-	74	-7.40	Pk	Vertical		
17797	35.34	10.99	43.95	43	3.50	46.78	4	54	-7.22	AV	Vertical		
17788	58.37	11.81	43.69	44	4.60	69.27		74 -4.7		Pk	Horizonta		
17788	32.54	11.81	43.69	44	4.60	43.44	ļ	54	-10.56	AV	Horizonta		

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



## 7.3 NUMBER OF HOPPING CHANNEL

## 7.3.1 Applicable Standard

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

### 7.3.2 Conformance Limit

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

## 7.3.3 Measuring Instruments

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

#### 7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. VBW  $\geq$  RBW Sweep = auto Detector function = peak Trace = max hold

#### 7.3.6 Test Results

EUT:	Tablet	Model No.:	DT1 Lite
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mukzi Lee



## 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:	Tablet	Model No.:	DT1 Lite
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee



## 7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

## 7.5.1 Applicable Standard

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

## 7.5.2 Conformance Limit

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

## 7.5.3 Measuring Instruments

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

## 7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

## 7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW  $\geq$  1MHz VBW  $\geq$  RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting. Measure the maximum time duration of one single pulse.



#### 7.5.6 Test Results

EUT:	Tablet	Model No.:	DT1 Lite	
Temperature:	<b>20</b> ℃	Relative Humidity:	DT1 Lite 48% Mukzi Lee	
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee	

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

## 7.6.6 Test Results

EUT:	Tablet	Model No.:	DT1 Lite
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee



## 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:	Tablet	Model No.:	DT1 Lite
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee



## 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:	Tablet	Model No.:	DT1 Lite
Temperature:	<b>20</b> °C	Relative Humidity:	
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mukzi Lee



## 7.9 SPURIOUS RF CONDUCTED EMISSION

## 7.9.1 Applicable Standard

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

## 7.9.2 Conformance Limit

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

#### 7.9.3 Measuring Instruments

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

#### 7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.9.5 Test Procedure

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

- b) Set the RBW = 100 kHz.
- c) Set the VBW  $\geq$  [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

## 7.9.6 Test Results

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



## 7.10 ANTENNA APPLICATION

## 7.10.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 7.10.2 Result

The EUT antenna is permanent attached IFA antenna (Gain:1.5 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 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.





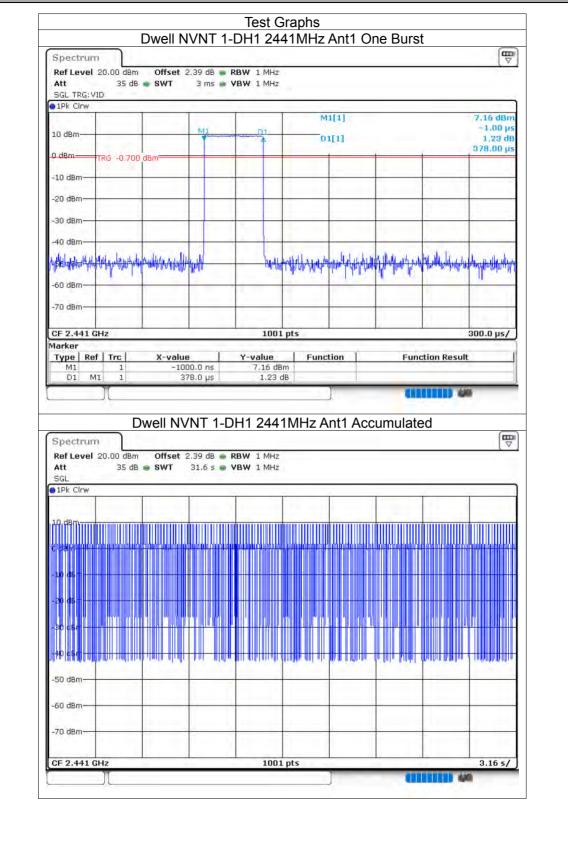
# 8 TEST RESULTS

# 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	0.378	77.49	205	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.635	219.09	134	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.888	259.92	90	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.387	80.496	208	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.64	209.92	128	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.888	259.92	90	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.387	81.27	210	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.635	210.915	129	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	254.144	88	31600	400	Pass



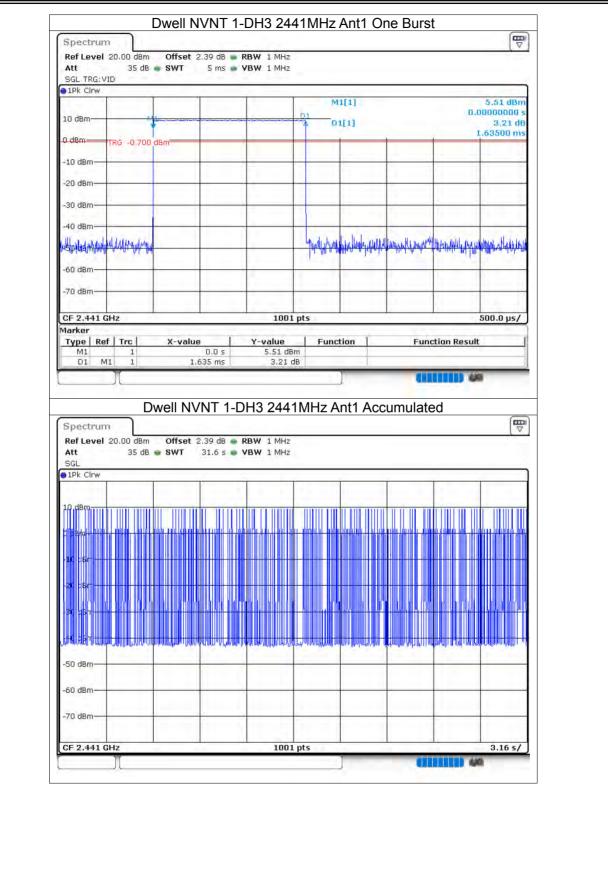
Report No.: S23082504607001



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Certificate #4298.01





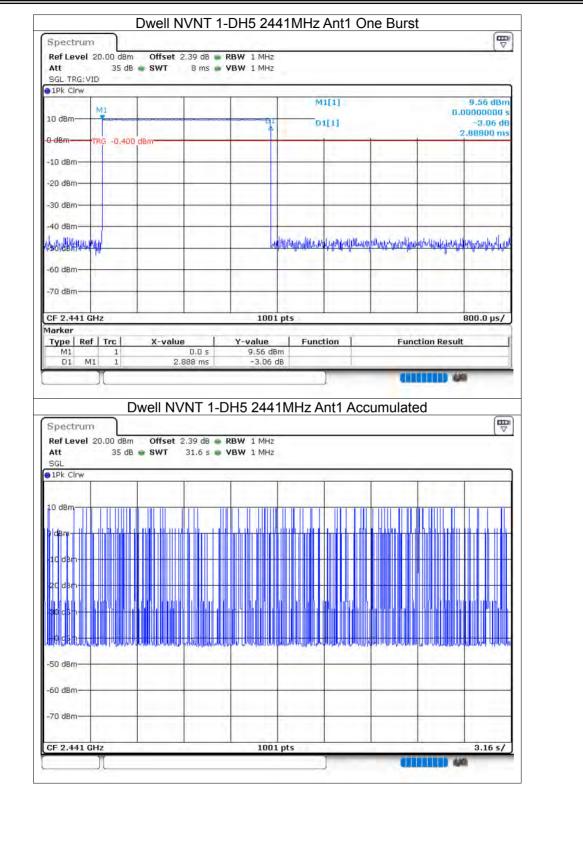
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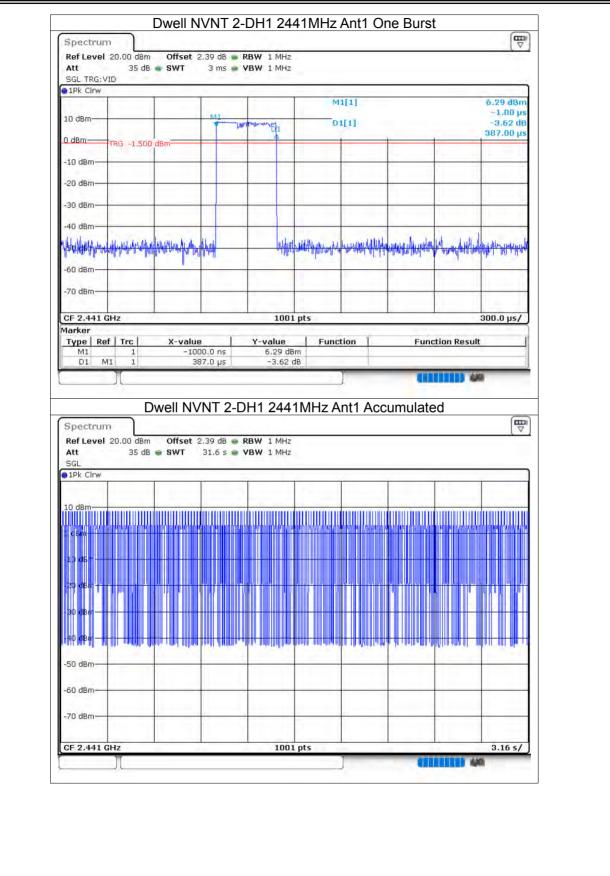
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Certificate #4298.01

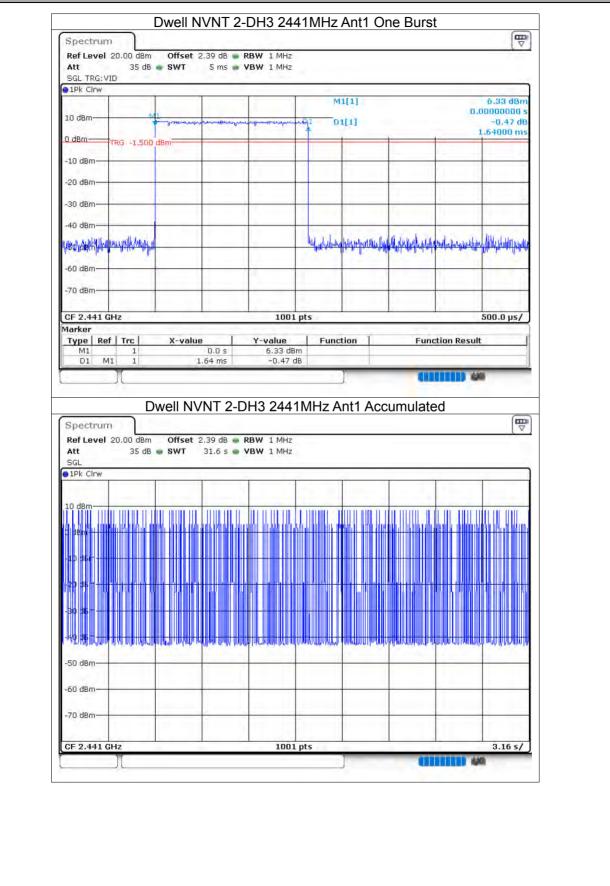






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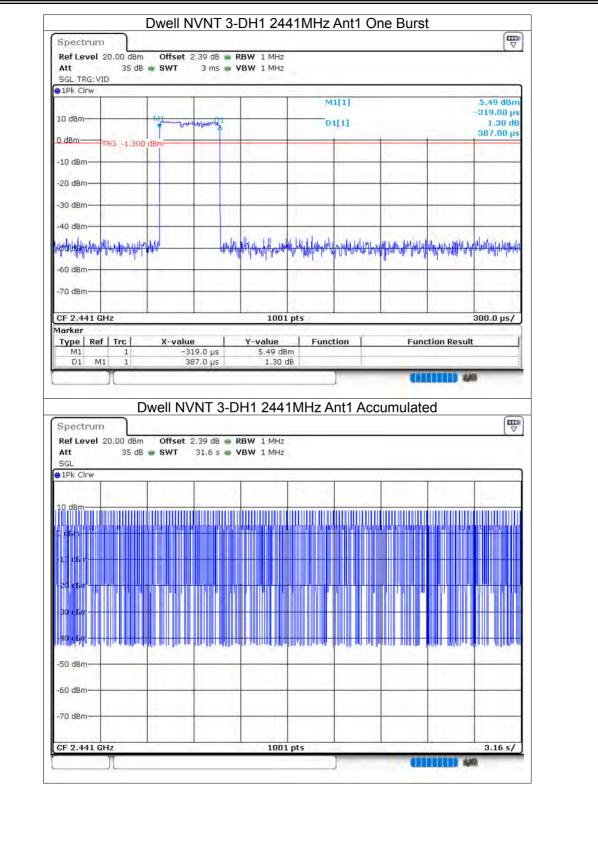


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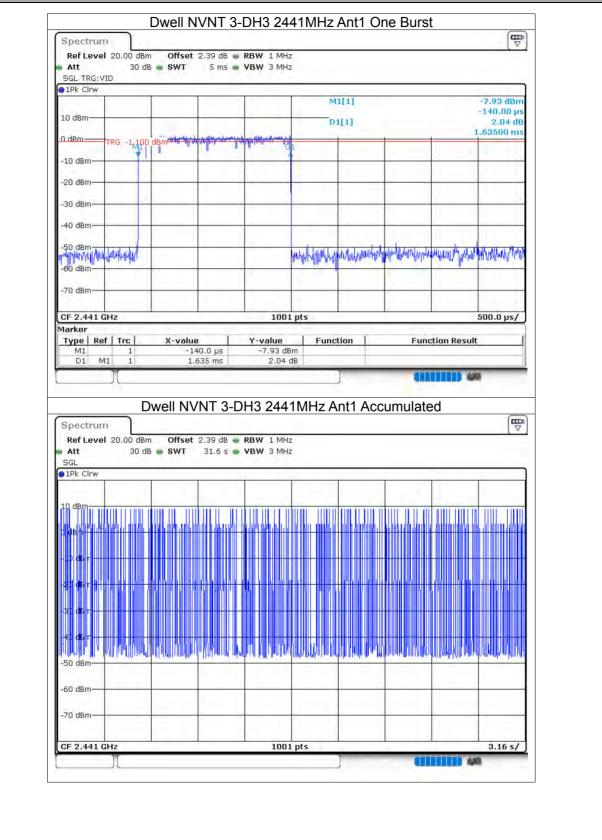
1Pk Clrw				-		1[1]			-1.44 dBm
10 dBm									-136.00 µs
Con Section 1	11	h star dadaillafore	test and the Plan of the fault	Construction of the	0	1[1]		- 3	-1,44 dB 2.88800 ms
and the second second	TRG -1,300	dBm	1	- mereprose					
-10 dBm						-			
-20 dBm	-								
-30 dBm								-	
-40 dBm			-		-				
here her had				Kuluk	wownitherwood	holdminapoli	WHEE ALL ALL ALL ALL ALL ALL ALL ALL ALL A	Holeshouldurg	alles drullen and high
-60 dBm			-	1000	-	1	1	1	0.001
-70 dBm			i	·				1	
-70 UBm				1000	A	11	(i	1.000	· · · · · · · · · · · · · · · · · · ·
CF 2.441 0	Hz	-	1	1001	pts				800.0 µs/
Marker Type Re		X-value		Y-value	Func	tion	Fund	tion Result	-
M1					100				
D1 M	1 1		36.0 µs 388 ms	-1,44 dB -1,44 (					
D1 M Spectrun Ref Level Att	1 1 D 20.00 dBm	2.1 Dwell NV	388 ms   ∕NT 2-D 2.39 dB ● 1		3B	nt1 Acc	umulate	ed	
D1 M Spectrum Ref Level	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	] nt1 Acc	umulate	ed	
D1 M Spectrum Ref Level Att SGL • 1Pk Clrw	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc		ed	
D1 M Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc	umulate	ed	
D1 M Spectrum Ref Level Att SGL • 1Pk Clrw	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc		ed	
D1 M Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc		ed	
D1 M Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc		ed	
D1 M Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	388 ms   ∕NT 2-D 2.39 dB ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 10 dBm 10 dBm 20 dSm 20 dSm 20 dSm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz	3B	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 10 dBm 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz	1MHz A	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 10 dBm 10 dBm 10 dBm 20 d5m 20 d5m -10 d5m -10 d5m -10 d5m -50 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz	1MHz A	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 10 dBm 10 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz	1MHz A	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 10 dBm 10 dBm 10 dBm 20 d5m 20 d5m -10 d5m -10 d5m -10 d5m -50 dBm	1 1 D 20.00 dBm	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz	1MHz A	nt1 Acc			
D1 M Spectrum Ref Level Att SGL 10 dBm 10 dBm 10 dBm 10 dBm -0 38 m -0 38	1 1 D 20.00 dBm 35 dB	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1.44 (		nt1 Acc			
D1 M Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -20 d5m -30 c5m -30 c5m -30 c5m -50 dBm -60 dBm	1 1 D 20.00 dBm 35 dB	2.1 Dwell NV Offset 2	/NT 2-D 2.39 dB ● 1 31.6 s ● 1	-1,44 ( 0H5 244 RBW 1 MHz		) nt1 Acc			3.16 s/





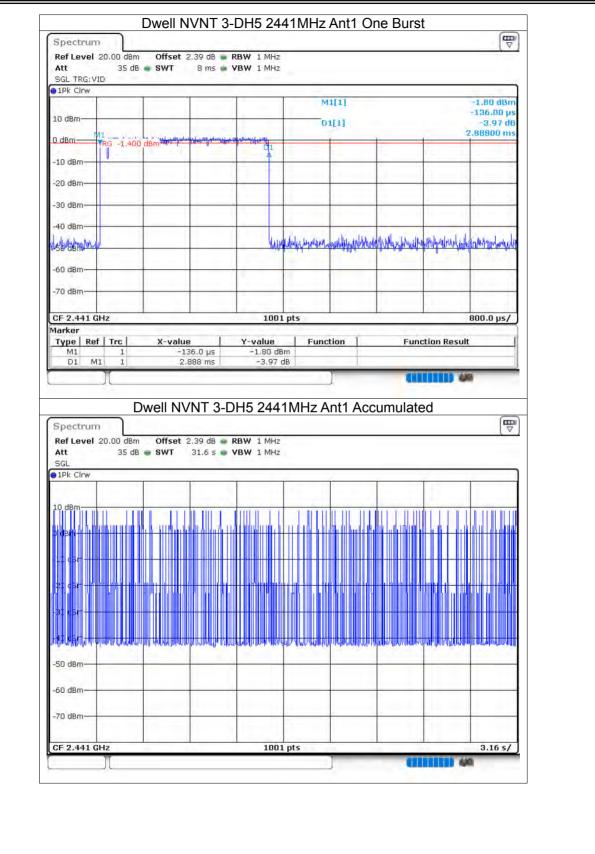
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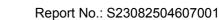
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#### 8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	9.5	21	Pass
NVNT	1-DH5	2441	Ant1	9.58	21	Pass
NVNT	1-DH5	2480	Ant1	9.42	21	Pass
NVNT	2-DH5	2402	Ant1	9.65	21	Pass
NVNT	2-DH5	2441	Ant1	9.3	21	Pass
NVNT	2-DH5	2480	Ant1	9.08	21	Pass
NVNT	3-DH5	2402	Ant1	9.56	21	Pass
NVNT	3-DH5	2441	Ant1	9.27	21	Pass
NVNT	3-DH5	2480	Ant1	9.09	21	Pass

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	20.00 dBm		.38 dB 🐞 RE			-			
Att SGL Count		SWT	1 ms 😐 🛛	BW 2 MHz	Mode Auto S	Sweep			
1Pk Max			-	í .	1174	0			0.00.00
				MI	MI			2.40	9,50 dBm 192010 GHz
10 dBm									
D dBm	-							-	
-10 dBm				1					
-20 dBm		_		-	-				
5. A.			-						
-30 dBm									
-40 dBm			-	-				_	
-50 dBm									
-50 UBIII									
-60 dBm			-	-					
-70 dBm									
-yo ubiii									
CF 2.402 G	Hz			1001	pts			Spa	an 5.0 MHz
Spectrum Ref Level :	20.00 dBm	Offset 2	.39 dB 🍙 RE	BW 2 MHz	H5 2441N				
Spectrum Ref Level : Att SGL Count	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz	H5 2441N Mode Auto S				
Spectrum Ref Level : Att SGL Count	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz		Sweep	1		9,58 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz	Mode Auto S	Sweep	1	2.44	
Spectrum Ref Level : Att SGL Count 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2,44	9,58 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.44	9,58 dBm
Spectrum Ref Level : SGL Count ) IPk Max 10 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2,440	9,58 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.444	9,58 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.440	9,58 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2,440	9,58 dBm
Spectrum Ref Level 3 Att SGL Count IPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.440	9,58 dBm
Spectrum Ref Level 3 Att SGL Count IPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.440	9,58 dBm
Spectrum Ref Level 3 SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2,440	9,58 dBm
Spectrum Ref Level 3 Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.440	9,58 dBm
Spectrum Ref Level 3 Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2.440	9,58 dBm
Spectrum	20.00 dBm 35 dB	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	2,440	9,58 dBm
Spectrum Ref Level 3 Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz	Mode Auto S	Sweep	1		9.58 dBm 088510 GHz
Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm 50 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz MHz	Mode Auto S	Sweep	1	Spa	9.58 dBm 088510 GHz
Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 🍙 RE	BW 2 MHz BW 2 MHz	Mode Auto S	Sweep	1		9.58 dBm 088510 GHz

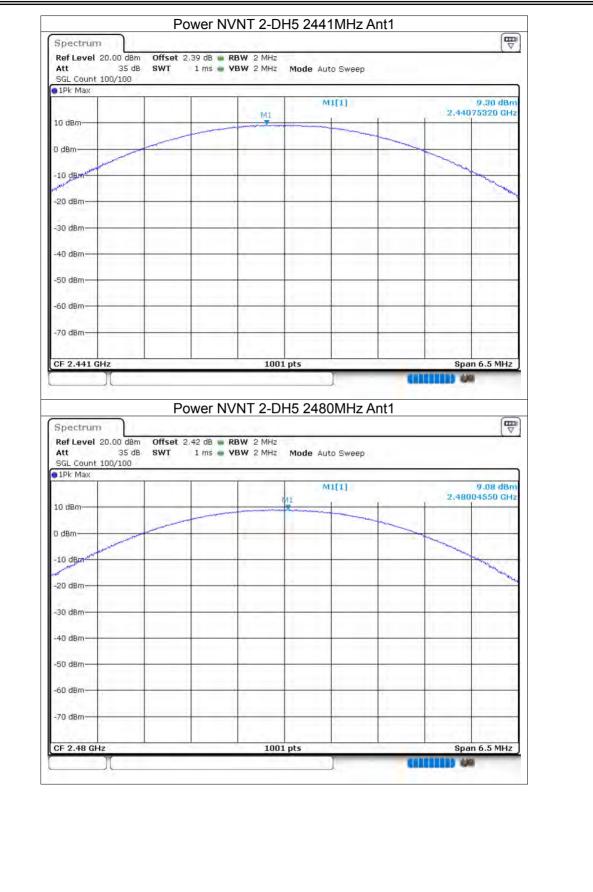








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Spectrum					
Ref Level         20.00 dB           Att         35 d           SGL Count         100/100		2 dB 🗰 <b>RBW</b> 2 MHz 1 ms 🖷 <b>YBW</b> 2 MHz	Mode Auto Sweep		
1Pk Max		-			
		MI	M1[1]	2	9.09 dBm .47988310 GHz
10 dBm-			and the second sec		
0 dBm	and the second s				
-10 dBm	-				
-20 dBm-					and the
20 0011					
-30 dBm		1			
-40 dBm	-				
-50 dBm					
-60 dBm					
-70 dBm			· · · · · · · · · · · · · · · · · · ·		
CF 2.48 GHz	4	1001	L pts		Span 6.5 MHz
T			1	CHARLEN	100





### 8.3 -20DB BANDWIDTH

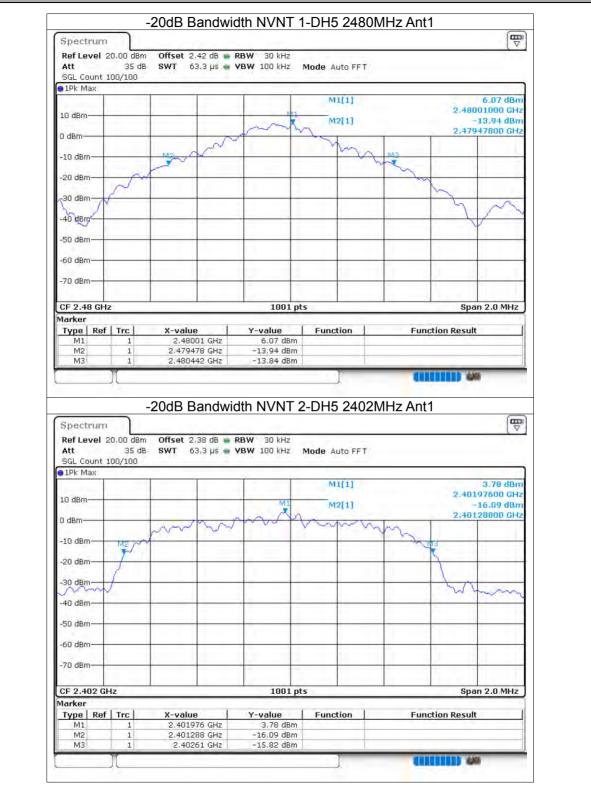
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.952	Pass
NVNT	1-DH5	2441	Ant1	1.024	Pass
NVNT	1-DH5	2480	Ant1	0.964	Pass
NVNT	2-DH5	2402	Ant1	1.322	Pass
NVNT	2-DH5	2441	Ant1	1.28	Pass
NVNT	2-DH5	2480	Ant1	1.262	Pass
NVNT	3-DH5	2402	Ant1	1.332	Pass
NVNT	3-DH5	2441	Ant1	1.276	Pass
NVNT	3-DH5	2480	Ant1	1.3	Pass



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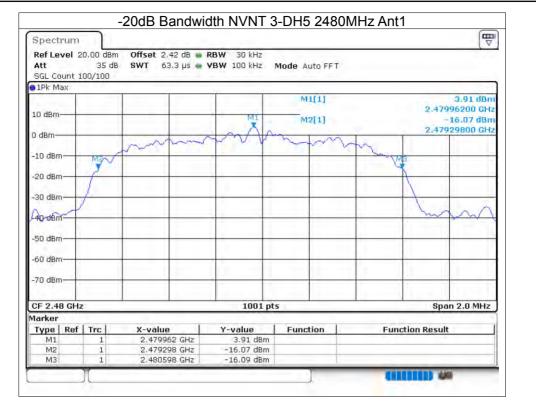














## 8.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)					
NVNT	1-DH5	2402	Ant1	0.937					
NVNT	1-DH5	2441	Ant1	0.909					
NVNT	1-DH5	2480	Ant1	0.889					
NVNT	2-DH5	2402	Ant1	1.191					
NVNT	2-DH5	2441	Ant1	1.189					
NVNT	2-DH5	2480	Ant1	1.171					
NVNT	3-DH5	2402	Ant1	1.203					
NVNT	3-DH5	2441	Ant1	1.197					
NVNT	3-DH5	2480	Ant1	1.185					





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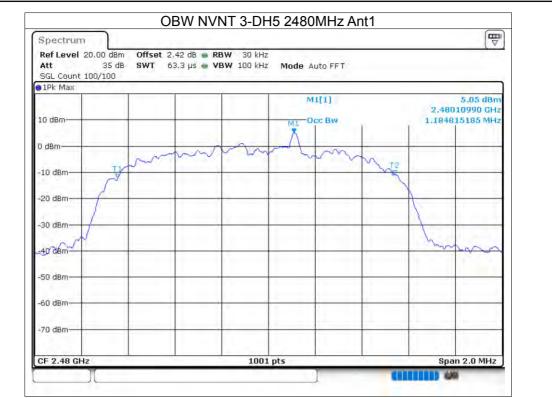






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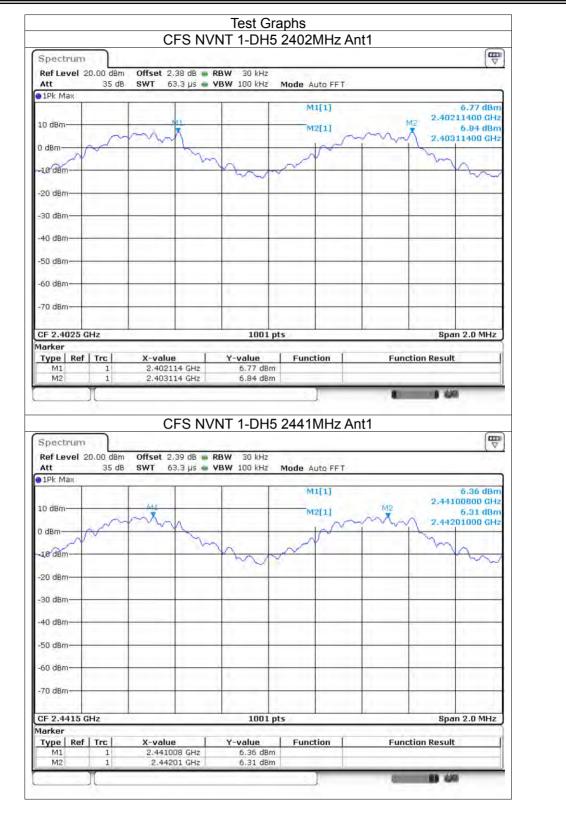




#### 8.5 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict					
NVNT	1-DH5	Ant1	2402.114	2403.114	1	0.635	Pass					
NVNT	1-DH5	Ant1	2441.008	2442.01	1.002	0.683	Pass					
NVNT	1-DH5	Ant1	2479.112	2480.114	1.002	0.643	Pass					
NVNT	2-DH5	Ant1	2401.966	2403.116	1.15	0.881	Pass					
NVNT	2-DH5	Ant1	2441.025	2441.962	0.937	0.853	Pass					
NVNT	2-DH5	Ant1	2478.963	2479.962	0.999	0.841	Pass					
NVNT	3-DH5	Ant1	2402.112	2403.114	1.002	0.888	Pass					
NVNT	3-DH5	Ant1	2440.903	2441.972	1.069	0.851	Pass					
NVNT	3-DH5	Ant1	2478.962	2480.114	1.152	0.867	Pass					



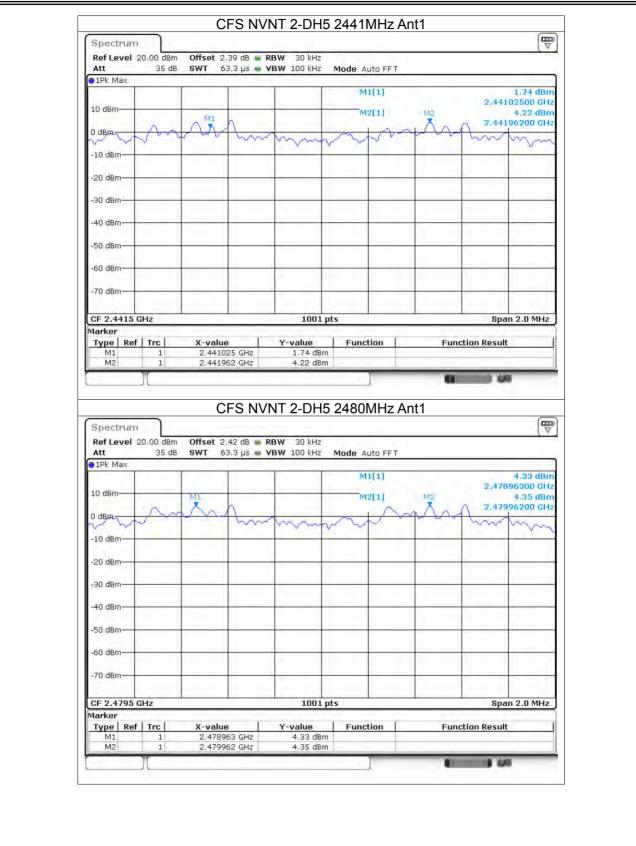


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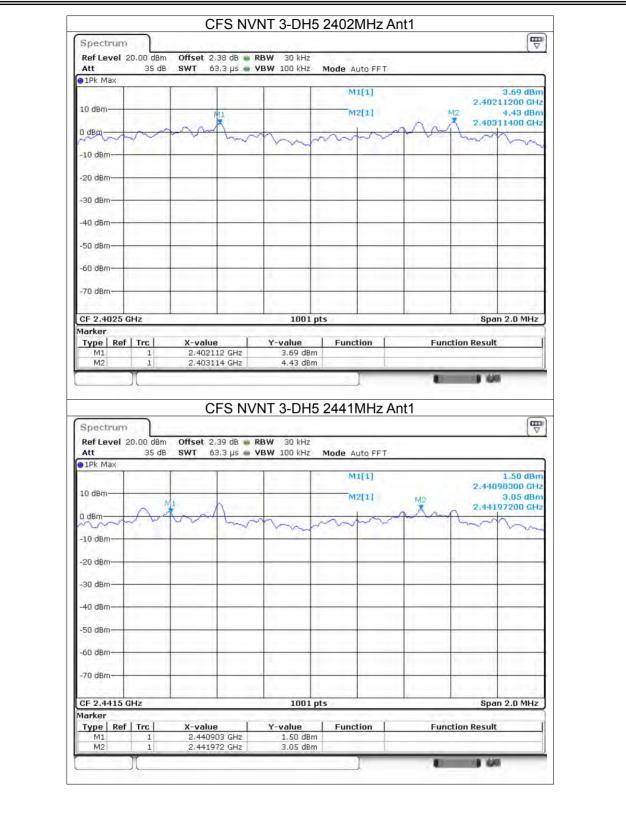




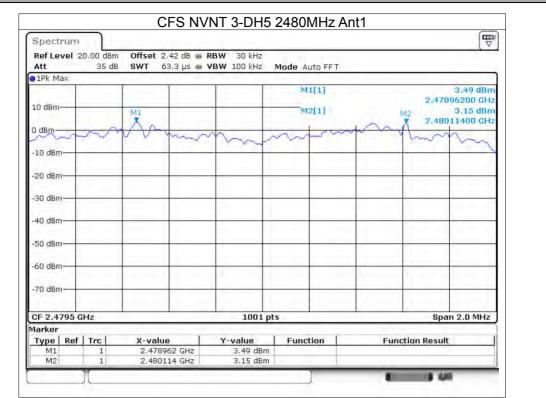












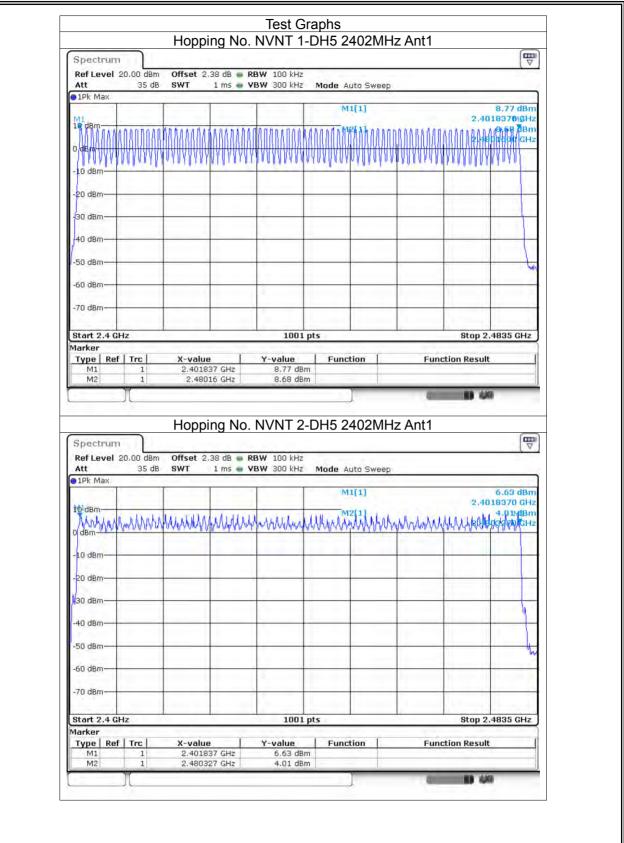


# 8.6 NUMBER OF HOPPING CHANNEL

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











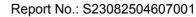
Spectrum			_						
Ref Level 2 Att	0.00 dBm 35 dB	Offset 2. SWT		RBW 100 kHz VBW 300 kHz	Mode A	uto Sweep			
1Pk Max							-		
		· · · · · · · · · · · · · · · · · · ·	-		M	1[1]		2.63	5.88 dBm
10 dBm				-					7535 GHz
MARIAN	Astabas	Added the	Makel	Maganal	a hanna		Alanderth	ANT CLARGE	3.48 MBm
o dBm	rywyny w	ada a Iladana ni J	~ A And Ad A	MONDIANA	ANAAnalad	Printer a	Addin Dadin	A A A Martines and a	and Addance
							1		
-10 dBm	_				-	-	_		
De Chanaire									
-20 dBm		-	-				-		
1.1				1.1.1.1.1.1.1					
430 dBm								-	
10.10									4
-40 dBm									
-50 dBm									
-30 GBIII-								1	U.M.S
-60 dBm					_				· · · · ·
				1				1	1
-70 dBm-	_		-				_		
						1			
Start 2.4 GH	z	1	-	1001	ots		1	Stop 2.4	835 GHz
larker									
Type   Ref	Trc	X-value		Y-value	Func	tion	Fun	ction Result	1
M1	1	2.40175		5.88 dB					
M2	1	2,48041	05 GHz	3.48 dB	m				



## 8.7 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.75	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-61.41	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-58.37	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-59.33	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-58.36	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-60.42	-20	Pass



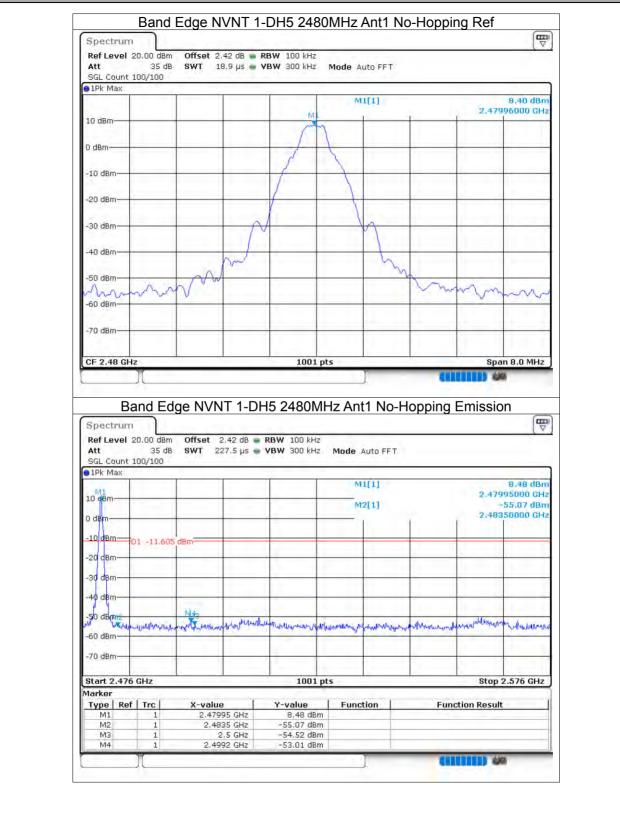


Spectrum									0	₽
Ref Level Att SGL Count	35 dB			<b>BW</b> 100 kHz <b>'BW</b> 300 kHz	Mode A	uto FFT				
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o goin				5	1					
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ma	m	ma					wh	mm	m	m
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-70 dBm						-				
-70 0611	1.00		1							Ĩ.
В	)( and Ed	ge NVN	T 1-DF	1001 15 2402N		] t1 No-H	opping l			
B Spectrum Ref Level	and Ed	Offset 2	.38 dB 📦	15 2402N RBW 100 kHz	/IHz Ant		opping I		on	z ₽
Spectrum Ref Level Att SGL Count	20.00 dBm 35 dB	Offset 2	.38 dB 📦	15 2402N	/IHz Ant		opping I		on	
B Spectrum Ref Level Att	20.00 dBm 35 dB	Offset 2	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant z Mode	Auto FFT	opping l		n [	
B Spectrum Ref Level Att SGL Count DPk Max	20.00 dBm 35 dB	Offset 2	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT.	opping I	Emissio	8.84 de	II
B Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm-	20.00 dBm 35 dB	Offset 2	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT	opping I	Emissio	9 <u>0</u> 8.84 dB	₩ Hz Sm
B Spectrum Ref Level Att 1Pk Max 10 dBm- 0 dBm-	20.00 dBm 35 dB	Offset 2	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT.	opping I	Emissio	8.84 de 05000/81 52.04 de	₩ Hz Sm
B Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2 SWT 22	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT.	opping I	Emissio	8.84 de 05000/81 52.04 de	₩ Hz Sm
B Spectrum Ref Level Att SGL Count IPk Max 10 dBm- 0 dBm- -10 dBm-	and Ed	Offset 2 SWT 22	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT.	opping I	Emissio	8.84 de 05000/81 52.04 de	₩ Hz Sm
B Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm	and Ed	Offset 2 SWT 22	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT.	opping I	Emissio	8.84 de 05000/81 52.04 de	₩ Hz Sm
B Spectrum Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm-	and Ed	Offset 2 SWT 22	.38 dB 📦	15 2402N RBW 100 kHz	/Hz Ant <sup>2</sup> Mode	Auto FFT.	opping I	Emissio	8.84 de 05000/81 52.04 de	₩ Hz Sm
B Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	and Ed	Offset 2 SWT 22	38 dB — .7.5 µs —	IS 2402N	AHz Ant	Auto FFT.		Emissio	8.84 dB 8.84 dB 05000131 52.04 dP 06000 S1	₩ Hz Sm
B Spectrum Ref Level Att 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	38 dB — .7.5 µs —	15 2402N RBW 100 kHz	AHz Ant	Auto FFT.		Emissio	8.84 dB 8.84 dB 05000131 52.04 dP 06000 S1	₩ Hz Sm
B Spectrum Ref Level Att SGL Count ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	38 dB — .7.5 µs —	IS 2402N	AHz Ant	Auto FFT.		Emissio	8.84 dB 8.84 dB 05000131 52.04 dP 06000 S1	₩ Hz Sm
B Spectrum Ref Level Att SGL Count ID dBm 10 dBm -0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	38 dB — .7.5 µs —	IS 2402N	AHz Ant	Auto FFT.		Emissio	8.84 dB 8.84 dB 05000131 52.04 dP 06000 S1	₩ Hz Sm
B Spectrum Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	38 dB — .7.5 µs —	IS 2402N	MHz Ant	Auto FFT.		2.402 2.400	8.84 dB 8.84 dB 05000131 52.04 dP 06000 S1	Bom HIZ Ham HIZ
B Spectrum Ref Level Att SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	38 dB	15 2402M	MHz Ant	Auto FFT.	Maghuntha	Emissio 2.402 2.400	8.84 dB roscoùis 52.04 dP 06000 S 06000 S 06000 S 06000 S 06000 S 06000 S	Bom HIZ Ham HIZ
B Spectrum Ref Level Att SGL Count IPk Max ID dBm- 0 dBm- -20 dBm- -30 dBm- -30 dBm- -30 dBm- -50 dBm-	and Ed 20.00 dBm 35 dB 100/100 01 -10,828 001 -10,82	Offset 2 SWT 22	38 dB	15 2402M	AHz Ant	Auto FFT.	Maghuntha	2.402 2.400	8.84 dB roscoùis 52.04 dP 06000 S 06000 S 06000 S 06000 S 06000 S 06000 S	Bom HIZ Ham HIZ
B Spectrum Ref Level Att SGL Count IPk Max ID dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	and Ed 20.00 dBm 35 dB 100/100 01 -10.026 01 -10.026 5 GHz f   Trc	Offset 2 SWT 22 dBm dBm 	38 dB — .7.5 µs — Ма л., фр.м. ми	15 2402M	MHz Ant	Auto FFT.	Maghuntha	Emissio 2.402 2.400	8.84 dB roscoùis 52.04 dP 06000 S 06000 S 06000 S 06000 S 06000 S 06000 S	Bom HIZ Ham HIZ

ACCREDITED

Certificate #4298.01







Ref Level : Att SGL Count	35 dB		<ul> <li>RBW 100 kHz</li> <li>YBW 300 kHz</li> </ul>	Mode Auto FF	r		
1Pk Max		<u> </u>	1 1	M1[1]		9	,36 dBn
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mm	me					mm	mon
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110							
-70 dBm						(* * * * * * * * * * * * * * * * * * *	
1.						·	
			1001	nte		Snan 8	B.0 MHz
Spectrum	IL and Ed		-DH5 2402M	1Hz Ant1 No	o-Hopping		(m
Ba Spectrum Ref Level 3 Att SGL Count	) ( and Ed 20.00 dBm 35 dB	Offset 2.38 d		1Hz Ant1 No			
Ba Spectrum Ref Level 3 Att	) ( and Ed 20.00 dBm 35 dB	Offset 2.38 d	-DH5 2402N	1Hz Ant1 No		Emission	
Ba Spectrum Ref Level 3 Att SGL Count • 1Pk Max	) ( and Ed 20.00 dBm 35 dB	Offset 2.38 d	-DH5 2402N	1Hz Ant1 No		Emission 8 2.40195	.31 dBn
Ba Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm	) ( and Ed 20.00 dBm 35 dB	Offset 2.38 d	-DH5 2402N	1Hz Ant1 No		Emission 8 2.40195 -47	.31 dBn 000/6H: .31 dBn
Ba Spectrum Ref Level 3 Att SGL Count • 1Pk Max	) ( and Ed 20.00 dBm 35 dB	Offset 2.38 d	-DH5 2402N	1Hz Ant1 No Mode Auto FF		Emission 8 2.40195	.31 dBn 000°6H: .31 dBn
Ba Spectrum Ref Level : Att SGL Count • 1Pk Max 10 dBm 0 dBm	) ( and Ed 20.00 dBm 35 dB	Offset 2.38 dl SWT 227.5 μ	-DH5 2402N	1Hz Ant1 No Mode Auto FF		Emission 8 2.40195 -47	.31 dBn 000/6H: .31 dBn
Ba Spectrum Ref Level : Att SGL Count • 1Pk Max 10 dBm 0 dBm	and Ed	Offset 2.38 dl SWT 227.5 μ	-DH5 2402N	1Hz Ant1 No Mode Auto FF		Emission 8 2.40195 -47	.31 dBn 000/6H: .31 dBn
Ba Spectrum Ref Level 3 Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm	and Ed	Offset 2.38 dl SWT 227.5 μ	-DH5 2402N	MI[1]		Emission 8 2.40195 -47	.31 dBn 000/6H: .31 dBn
Ba Spectrum Ref Level : Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	and Ed	Offset 2.38 dl SWT 227.5 μ	-DH5 2402N	MI[1]		Emission 8 2.40195 -47	.31 dBn 000/6H: .31 dBn
Ba Spectrum Ref Level 3 Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm	and Ed	Offset 2.38 dl SWT 227.5 µ	-DH5 2402N	MI[1]		Emission 8 2.40195 -47 2.40000	.31 dBn 000/6H: .31 dBn
Ba Spectrum Ref Level 3 Att SGL Count • 1Pk Max 10 dBm - 0 dBm - 20 dBm - 20 dBm - 30 dBm - 40 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402M	1Hz Ant1 No Mode Auto FF M1[1] M2[1]	T	Emission 8 2.40195 -47 2.40000	.31 dBn 000'6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count I D dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402N	1Hz Ant1 No Mode Auto FF M1[1] M2[1]	T	Emission 8 2.40195 -47 2.40000	.31 dBn 000'6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402M	1Hz Ant1 No Mode Auto FF M1[1] M2[1]	T	Emission 8 2.40195 -47 2.40000	.31 dBn 000'6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count I D dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402M	1Hz Ant1 No Mode Auto FF M1[1] M2[1]	T	Emission 8 2.40195 -47 2.40000	.31 dBn 000'6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -70 dBm -70 dBm	20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402M	1Hz Ant1 No Mode Auto FF M1[1] M2[1]	T	Emission 8 2.40195 -47 2.40000	.31 dBn 0000 GH: .31 gBn 000 GH:
Ba Spectrum Ref Level 3 Att SGL Count PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm	20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402M	1Hz Ant1 No Mode Auto FF M1[1] M2[1]	T	Emission 8 2.40195 -47 2.40000	.31 dBn 000/6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count P1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 2.306 Marker Type   Ref	and Ed 20.00 dBm 35 dB 100/100 01 -11,639 01 -11,639 01 -11,639 01 -11,639	Offset 2.38 dl SWT 227.5 µ dBm	-DH5 2402M	1Hz Ant1 No Mode Auto FF M1[1] M2[1] M2[1] M2[1] M2[1] M2[1]	T.	Emission 8 2.40195 -47 2.40000	.31 dBn 000/6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 2.306 Marker	and Ed 20.00 dBm 35 dB 100/100	Offset 2.38 dl SWT 227.5 µ	-DH5 2402M	1Hz Ant1 No	T.	Emission 8 2.40195 -47 2.40000 	.31 dBn 000/6H: .31 dBn 000 GH: 
Ba Spectrum Ref Level 3 Att SGL Count PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -70 dBm -70 dBm Start 2.306 Marker Type Ref M1	and Ed 20.00 dBm 35 dB 100/100 01 -11.639 01 -11.639 GHz GHz	Offset 2.38 dl SWT 227.5 µ dBm dBm NAreyllujahuluau(h.) NAreyllujahuluau(h.) NAreyllujahuluau(h.)	-DH5 2402M	1Hz Ant1 No	T.	Emission 8 2.40195 -47 2.40000 	.31 dBn 000/6H: .31 dBn 000 GH: 



	20.00 dBm			BW 100 kHz		the FFT			(T
Att SGL Count		5WI 18	ora hz 🖷 A	BW 300 kHz	Mode A	uto FFT			
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-50 dBm	and m	man					row	man	m
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						11	1		
-70 dBm									
05.0.10.01				1001					- 0.0 -
CF 2.48 GH	12	_		1001	pts	Y		spa	n 8.0 MHz
Spectrun Ref Level	n 20.00 dBm	Offset 2	2.42 dB 🖷	15 2480N	z		opping	Emissio	n (T
Spectrun Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	2.42 dB 🖷		z		opping	Emissio	
Spectrun Ref Level Att	n 20.00 dBm 35 dB	Offset 2	2.42 dB 🖷	RBW 100 kH	z z Mode /	Auto FFT.	opping	Emissio	
Spectrun Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	2.42 dB 🖷	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr
Spectrum Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 35 dB	Offset 2	2.42 dB 🖷	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.42 dB 🖷	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr 95000 GH 55.87 dBr
Spectrun Ref Level SGL Count • 1Pk Max 10 eBm	n 20.00 dBm 35 dB	Offset 2 SWT 22	2.42 dB 🖷	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr 95000 GH 55.87 dBr
Spectrun Ref Level Att SGL Count 1Pk Max 1D dBm- -10 dBm- -20 dBm-	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 🖷	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr 95000 GH 55.87 dBr
Spectrun Ref Level SGL Count • 1Pk Max 10 eBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 🖷	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr 95000 GH 55.87 dBr
Spectrun Ref Level Att SGL Count 1Pk Max 1D dBm- -10 dBm- -20 dBm-	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 📦	RBW 100 kH	z Mode /	Auto FFT.	opping	2.479	7.86 dBr 95000 GH 55.87 dBr
Spectrun Ref Level Att SGL Count • 1Pk Max 10 eBm	0 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB . 7.5 µs	RBW 100 kH:	Z Mode /	Auto FFT.		2.479	7.86 dBi 95000 GH 55.87 dBi 50000 GH
Spectrum           Ref Level           Att           SGL Count           • 1Pk Max           10 dBm           • 0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 📦	RBW 100 kH:	z Mode /	Auto FFT.		2.479	7.86 dBi 95000 GH 55.87 dBi 50000 GH
Spectrun           Ref Level           Att           SGL Count           • 1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -60 dBm	0 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB . 7.5 µs	RBW 100 kH:	Z Mode /	Auto FFT.		2.479	7.86 dBi 95000 GH 55.87 dBi 50000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 eBm -10 eBm -20 eBm -30 eBm -30 eBm -30 eBm -30 eBm -30 eBm -30 eBm	0 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB . 7.5 µs	RBW 100 kH	Z Mode /	Auto FFT.		2.479	7.86 dBi 95000 GH 55.87 dBi 50000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 eBm	0 20.00 d8m 35 d8 100/100 01 -13.512	Offset 2 SWT 22	2.42 dB . 7.5 µs	RBW 100 kH:	Z Mode /	Auto FFT.		2.479 2.483 	7.86 dBr 95000 GH 55.87 dBr 55000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 eBm -10 eBm -20 eBm -20 eBm -20 eBm -30 dBm -50 dBm -70 dBm -70 dBm Start 2.477 Marker Type   Re	20.00 dBm 35 dB 100/100 01 -13,512 01 -13,512 0 db 6 GHz f   Trc	Offset 2 SWT 22 dBm dBm	2.42 dB 27.5 μs	RBW 100 kH: YBW 300 kH:	2 Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT.	Provensite	2.479 2.483 	7.86 dBr 195000 GH 55.87 dBr 50000 GH
Spectrun           Ref Level           Att           SGL Count           • 1Pk Max           10 dBm           0 dBm           -10 cBm           -20 cBm           -30 dBm           -30 dBm           -60 dBm           -70 dBm           Start 2.470           Marker           Type           M1	20.00 dBm 35 dB 100/100 01 -13.512 	Offset 2 SWT 22 dBm dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2.42 dB 27.5 μs	RBW 100 kH VBW 300 kH 	2 2 Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT.	Provensite	2.479 2.483 	7.86 dBr 195000 GH 55.87 dBr 50000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 eBm -10 eBm -20 eBm -20 eBm -30 dBm -30 dBm -50 dBm -70 dBm	20.00 dBm 35 dB 100/100 01 -13.512 01 -13.512 5 GHz 6 GHz f Trc 1 1 1	Offset 2 SWT 22 dBm dBm M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4 M4 M4 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M3 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M4 M3 M4 M4 M4 M4 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2.42 dB 27.5 μs 27.5	RBW 100 kH: VBW 300 kH:	2 2 Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT.	Provensite	2.479 2.483 	7.86 dBr 195000 GH 55.87 dBr 50000 GH
Spectrun           Ref Level           Att           SGL Count           • 1Pk Max           10 eBm           0 dBm           -10 eBm           -20 eBm           -30 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.47           Marker           Type   Re           M1           M2	20.00 dBm 35 dB 100/100 01 -13.512 	Offset 2 SWT 22 dBm dBm M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4_M3 M4 M4 M4 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M3 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M4 M3 M4 M4 M4 M4 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2.42 dB 27.5 μs 27.5 μs 27	RBW 100 kH: VBW 300 kH:	2 2 Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT.	Provensite	2.479 2.483 	7.86 dBi 95000 GH 55.87 dBi 50000 GH



SGL Count 100/10	5 dB SWT 18.9 µs 🖷		Mode Auto FFT			
●1Pk Max	1	1 1	M1[1]		_	7.80 dB
1			wiftl		2,400	201600 GH
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		man	m			
0 dBm		1	1			
-10 dBm-				-		
10 9 H H						
-20 dBm			-	-	-	
C 2				2		
-30 dBm	prod.	~	m	1		
40 dbm				1		
-40 dBm						
-50 dBm	hart			have	2	
mont	1 million				han	m
-60 dBm				-	-	
TC						
-70 dBm						
					· · · · ·	1.000
					0	O O MILL
CF 2.402 GHz Band Spectrum Ref Level 20.00	Edge NVNT 3-E			Hopping		an 8.0 MHz
Band Spectrum Ref Level 20.00 Att 33 SGL Count 100/10	dBm <b>Offset</b> 2.38 dB 5 dB <b>SWT</b> 227.5 µs	0H5 2402MH	Iz Ant1 No	1		on
Band Spectrum Ref Level 20.00 Att 33	dBm <b>Offset</b> 2.38 dB 5 dB <b>SWT</b> 227.5 µs	OH5 2402MH	HZ ANTI NO	1		on (F
Band Spectrum Ref Level 20.00 Att 33 SGL Count 100/10 1Pk Max	dBm <b>Offset</b> 2.38 dB 5 dB <b>SWT</b> 227.5 µs	OH5 2402MH	Iz Ant1 No	1	Emissio	7.38 dBi
Band Spectrum Ref Level 20.00 Att 33 SGL Count 100/10	dBm <b>Offset</b> 2.38 dB 5 dB <b>SWT</b> 227.5 µs	OH5 2402MH	HZ ANTI NO	1	Emissic	7.38 dBi
Band Spectrum Ref Level 20.00 Att 33 SGL Count 100/10 1Pk Max	dBm <b>Offset</b> 2.38 dB 5 dB <b>SWT</b> 227.5 µs	OH5 2402MH	Hz Ant1 No Mode Auto FF1	1	Emissic	7.38 dBi
Band Spectrum Ref Level 20.00 / Att 335 SGL Count 100/10 Pk Max 10 dBm 10 dBm 10 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 10	OH5 2402MH	Hz Ant1 No Mode Auto FF1	1	Emissic	7.38 dBi
Band           Spectrum           Ref Level 20.00           Att 33           SGL Count 100/10           IPk Max           10 dBm           0 dBm           -10 dBm           D1 -12	dBm <b>Offset</b> 2.38 dB 5 dB <b>SWT</b> 227.5 µs	OH5 2402MH	Hz Ant1 No Mode Auto FF1	1	Emissic	7.38 dBi
Band           Spectrum           Ref Level 20.00 / Att           SGL Count 100/10           • IPk Max           10 dBm           -10 dBm           -20 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 10	OH5 2402MH	Hz Ant1 No Mode Auto FF1	1	Emissic	7.38 dBi
Band           Spectrum           Ref Level 20.00           Att 33           SGL Count 100/10           IPk Max           10 dBm           0 dBm           -10 dBm           D1 -12	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 10	OH5 2402MH	Hz Ant1 No Mode Auto FF1	1	Emissic	on
Band           Spectrum           Ref Level 20.00 / Att           SGL Count 100/10           • IPk Max           10 dBm           -10 dBm           -20 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 00	OH5 2402MH	Hz Ant1 No Mode Auto FF1	1	Emissic	7.38 dBi 195000 GI- 47.66 Bi 196000 GI-
Band           Spectrum           Ref Level 20.00 / Att           Att           35           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 00	DH5 2402MH RBW 100 kHz VBW 300 kHz	Hz Ant1 No Mode Auto FF1 M1[1] M2[1]		2.400	7.38 dBi 195000 CH 47.66 BBi 190000 CH
Band           Spectrum           Ref Level 20.00 / Att 33           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm	dBm Offset 2.38 dB 5 dB SWT 227.5 µs 10 .201 dBm	OH5 2402MH	Hz Ant1 No Mode Auto FF1 M1[1] M2[1]	1	2.400	7.38 dBi 195000 CH 47.66 BBi 190000 CH
Band           Spectrum           Ref Level 20.00           Att           33           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 00	DH5 2402MH RBW 100 kHz VBW 300 kHz	Hz Ant1 No Mode Auto FF1 M1[1] M2[1]		2.400	7.38 dBi 195000 CH 47.66 BBi 190000 CH
Band           Spectrum           Ref Level 20.00 / Att 33           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 00	DH5 2402MH RBW 100 kHz VBW 300 kHz	Hz Ant1 No Mode Auto FF1 M1[1] M2[1]		2.400	7.38 dBi 195000 CH 47.66 BBi 190000 CH
Band           Spectrum           Ref Level 20.00           Att 33:           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 00	DH5 2402MH	Hz Ant1 No Mode Auto FF1 M1[1] M2[1]		2.400 2.400	7.38 dBi 19500016H -47.66 BBi 1006000 GH
Band           Spectrum           Ref Level 20.00           Att           33           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 00	DH5 2402MH RBW 100 kHz VBW 300 kHz	Hz Ant1 No           Mode Auto FF1           M1[1]           M2[1]           M2[1]		2.400 2.400	7.38 dBi 19500016H -47.66 BBi 1006000 GH
Band           Spectrum           Ref Level 20.00           Att         33           SGL Count 100/10           ID dBm           D dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.306 GHz           Marker           Type         Ref   Trc	dBm Offset 2.38 dB 5 dB SWT 227.5 µs 10 .201 dBm 	DH5 2402MH RBW 100 kHz VBW 300 kHz	Hz Ant1 No           Mode Auto FF1           M1[1]           M2[1]           M2[1]		2.400 2.400	7.38 dB/ 195006/CH- 47.66 DB/ 100000 CH- 100000 CH- 100000 CH- 100000 CH- 2.406 GH2
Band           Spectrum           Ref Level 20.00 / Att           SGL Count 100/10           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.306 GHz           Marker	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 10 .201 d8m .201 d8m М4 умдалалария .201 или .201 или	DH5 2402MH RBW 100 kHz VBW 300 kHz	Mode Auto FFT		2.400 2.400 2.400 2.400 5top	7.38 dBr 195000(CH- 47.66 /Bh 100000 (CH- 47.66 /Bh 100000 (CH- 47.66 /Bh 100000 (CH- 2.406 GH2
Band           Spectrum           Ref Level 20.00           Att 33           SGL Count 100/10           • 1Pk Max           10 dBm           0 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.306 GHz           Marker           Type   Ref   Trc.           M1	d8m Offset 2.38 d8 5 d8 SWT 227.5 µs 10 227.5 µs 10 227.5 µs 10 227.5 µs 10 10 10 10 10 10 10 10 10 10 10 10 10	DH5 2402MH RBW 100 kHz VBW 300 kHz VBW 300 kHz 1001 pt 7.38 dBm	Mode Auto FFT		2.400 2.400 2.400 2.400 5top	7.38 dBr 195000(CH- 47.66 /Bh 100000 (CH- 47.66 /Bh 100000 (CH- 47.66 /Bh 100000 (CH- 2.406 GH2



Att SGL Count	20.00 dBm 35 dB 100/100	Offset 2. SWT 18		3W 100 KHz 3W 300 KHz		uto FFT			
1Pk Max				<u> </u>	M	1[1]		_	7,41 dBr
1000					M	HT1		2,480	10390 GH
10 dBm					M1		-		
0.0				m	1m				
0 dBm				1	4				
-10 dBm				1					
-10 0.011							-		
-20 dBm						-			-
-30 dBm		-	~ ~ 1			1		-	
Lange and Lange			min			many		1	11 11 11
-40 dBm		- /					1		
-		P					4		
-50 dBm	min	Jaz					prop	000	0.0
60 dpm	- Was	1						mm	- wh
-60 dBm							1	1.000	
-70 dBm									
			1						
CF 2.48 GH	12		_	1001	pcs		-	spa	n 8.0 MHz
Spectrun Ref Level	n 20.00 dBm	Offset 2	2.42 dB 📦 R	5 2480N	z	t1 No-H	opping	Emissic	n (T
Spectrun Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	2.42 dB 📦 R		z	1 No-H	opping	Emissic	l
Spectrun Ref Level Att	n 20.00 dBm 35 dB	Offset 2	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z <b>Mode</b> /	Auto FFT	opping	Emissic	
Spectrun Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 35 dB	Offset 2	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z <b>Mode</b> /		opping		7.14 dBr
Spectrun Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT	opping	2.480	7.14 dBr 05000 GH 55.37 dBr
Spectrun Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 35 dB	Offset 2	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT.	opping	2.480	7.14 dBr 05000 GH 55.37 dBr
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT.	opping	2.480	7.14 dBr
Spectrun Ref Level Att SGL Count 1Pk Max 10 dbm- 0 dbm- -10 dbm-	n 20.00 dBm 35 dB	Offset 2 SWT 22	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT.	opping	2.480	7.14 dBr 05000 GH 55.37 dBr
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT.	opping	2.480	7.14 dBr 05000 GH 55.37 dBr
Spectrun Ref Level Att SGL Count 1Pk Max 10 dbm- 0 dbm- -10 dbm-	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT.	opping	2.480	7.14 dBr 05000 GH 55.37 dBr
Spectrun Ref Level Att SGL Count 1Pk Max 10 dBm- -10 dBm- -20 dBm-	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 📦 R	<b>BW</b> 100 kH:	z z Mode / M	Auto FFT.	opping	2.480	7.14 dBr 05000 GH 55.37 dBr
Spectrun Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm-	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.42 dB <b>ε R</b> 7.5 μs <b>ε V</b>	28W 100 kH; 78W 300 kH;	z Mode / M M	Auto FFT.		2.480	7.14 dBr 05000 GH 55.37 dBr 50000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.42 dB <b>ε R</b> 7.5 μs <b>ε V</b>	<b>BW</b> 100 kH:	z Mode / M M	Auto FFT.		2.480	7.14 dBr 05000 GH 55.37 dBr 50000 GH
Spectrun Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm-	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.42 dB <b>ε R</b> 7.5 μs <b>ε V</b>	28W 100 kH; 78W 300 kH;	z Mode / M M	Auto FFT.		2.480	7.14 dBr 05000 GH 55.37 dBr 50000 GH
Spectrun Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.42 dB <b>ε R</b> 7.5 μs <b>ε V</b>	28W 100 kH; 78W 300 kH;	z Mode / M M	Auto FFT.		2.480	7.14 dBr 05000 GH 55.37 dBr 50000 GH
Spectrum Ref Level Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.42 dB <b>ε R</b> 7.5 μs <b>ε V</b>	28W 100 kH; 78W 300 kH;	z Mode / M M	Auto FFT.		2.480	7.14 dBr 05000 GH 55.37 dBr 50000 GH
Spectrun Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	n 20.00 dBm 35 dB 100/100 	Offset 2 SWT 22 dBm	2.42 dB <b>ε R</b> 7.5 μs <b>ε V</b>	28W 100 kH; 78W 300 kH;	2 Mode /	Auto FFT.		2.480 2.483	7.14 dBr 105000 GH 55.37 dBr 55000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	n 20.00 dBm 35 dB 100/100 	dBm	2.42 dB <b>F R</b> 7.5 μs <b>V</b>	BW 100 kH; BW 300 kH; Museument	2 Mode / M M M	Auto FFT.		2.480 2.483 	7,14 dBi 05000 GH 55.37 dBi 50000 GH
Spectrum Ref Level Att SGL Count • 1Pk Max 10 GBm - 0 dBm - 20 dBm - 20 dBm - 20 dBm - 40 dBm - 50 dBm - 70 dBm -	n 20.00 dBm 35 dB 100/100 01 -12.590 01 -12.590 01 -12.590 01 -12.590 01 -12.590 01 -12.590 01 -12.590 01 -12.590 01 -12.590	Offset 2 SWT 22 dBm dBm 4 Mission X-value	2.42 dB <b>• R</b> 7.5 μs <b>• V</b>	BW 100 kH: BW 300 kH: Mummuniker 1001 Y-value	z Mode / M M M M Juliupation J	Auto FFT.		2.480 2.483	7,14 dBi 05000 GH 55.37 dBi 50000 GH
Spectrun Ref Level Att SGL Count 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70	n 20.00 dBm 35 dB 100/100 	Offset 2 SWT 22 dBm dBm 4 x-value 2.4800 2.4800 2.4800	2.42 dB R.7.5 μs V V V V V V V V V V V V V	BW 100 kH; BW 300 kH; Mumoufwr 1001 Y-value 7.14 dB; -55.37 dB;	2 2. Mode / M M M M M M M M M M M M M M M M	Auto FFT.		2.480 2.483 	7,14 dBi 05000 GH 55.37 dBi 50000 GH
Spectrun Ref Level Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm Marker Type Re M1 M2 M3	n 20.00 dBm 35 dB 100/100 D1 -12.590 w w w w w w w w w w w w w w w w w w w	Offset 2 SWT 22 dBm dBm 4 	2.42 dB 7.5 μs V V V V V V V V V V V V V	BW 100 kH; BW 300 kH; Mulan, and Mark 1001 Y-value -55.37 dB -55.37 dB -55.89 dB	2 2 Mode / M M M M M M M Functor m m m	Auto FFT.		2.480 2.483 	7,14 dBi 05000 GH 55.37 dBi 50000 GH
Spectrun Ref Level Att SGL Count 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70	n 20.00 dBm 35 dB 100/100 	Offset 2 SWT 22 dBm dBm 4 	2.42 dB R.7.5 μs V V V V V V V V V V V V V	BW 100 kH; BW 300 kH; Mumoufwr 1001 Y-value 7.14 dB; -55.37 dB;	2 2 Mode / M M M M M M M Functor m m m	Auto FFT.	ฟสหากุษ มิปลา Func	2.480 2.483 	7,14 dBr 05000 GH 55.37 dBr 50000 GH





## 8.8 BAND EDGE(HOPPING)

		_(					1
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-59.22	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-60.51	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-58.5	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-59.27	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-57.07	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-60.01	-20	Pass

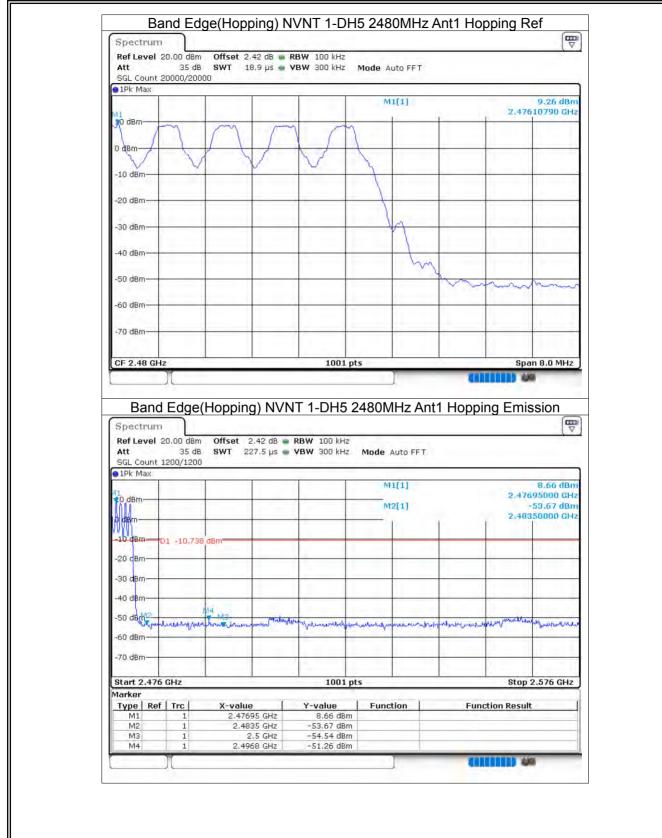


Spect	vel 2	0.00 dBr	n Offset	2.38 dB 😐	RBW 100 kHz				
Att		35 d	B SWT		YBW 300 kHz	Mode Auto FFT			
SGL Co 1Pk Ma		5000/15	000						
a is nis		-	1	1	1	M1[1]			9.04 dBm
10 dBm-						I	1	2010	494910 GHz
to abiii					m	m	m	m	m m
0 dBm—			-	-		+ $+$ $+$ $+$		1	
					1	$\sim$	V	5	$\vee$
-10 dBm							-		
-20 dBm	-		-	-	1		·		
-30 dBm	-		-	ſ	V		-	-	
-40 dBm								1 22 2	
-+0 080				M					
-50 dBm	-		1 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4					
m	m	curre							
-60 dBm									
-70 dBm	-			-			-		
ALL OPIN									
CF 2.40	12 CH				1001 wh				an 8.0 MHz
Spect	and	IC Edge	_	200	1001 pt		nt1 Hoppir		a
Spect	and	)(	n Offset	2.38 dB 📦		402MHz A			ssion
Specta Ref Lev Att SGL Co	and rum vel 2 unt 1	Edge	m Offset B SWT	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A			ssion
Spect Ref Le Att	and rum vel 2 unt 1	Edge	m Offset B SWT	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A			ssion ( ( )
Specta Ref Lev Att SGL Co	and rum vel 2 unt 1	Edge	m Offset B SWT	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	9,48 dBm +15000 C42
Spect Ref Lev Att SGL Co 1Pk Ma	and rum vel 2 unt 1	Edge	m Offset B SWT	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	ssion
Specb Ref Le Att SGL Co 1Pk Ma 10 dBm-	and rum vel 2 unt 1 ax	Edge 0.00 dBr 35 d 200/120	m Offset B SWT : 0	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	9,48 dBm 115000 G42 -52.87 #11
Specb Ref Le- Att SGL Co 1Pk Ma 10 dBm- 0 dBm-	and rum vel 2 unt 1 ax	Edge	m Offset B SWT : 0	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	9,48 dBm 115000 G42 -52.87 #11
Specb Ref Le Att SGL Co 1Pk Ma 10 dBm-	and rum vel 2 unt 1 ax	Edge 0.00 dBr 35 d 200/120	m Offset B SWT : 0	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	9,48 dBm 115000 G42 -52.87 #11
Specb Ref Le- Att SGL Co 1Pk Ma 10 dBm- 0 dBm-	and rum vel 2 uunt 1:	Edge 0.00 dBr 35 d 200/120	m Offset B SWT : 0	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	9,48 dBm 115000 G42 -52.87 #11
Specta Ref Lev Att SGL Co 1Pk Ma 10 dBm- -10 dBm- -20 dBm	and rum vel 2 unt 1 ax	Edge 0.00 dBr 35 d 200/120	m Offset B SWT : 0	2.38 dB 📦	NT 1-DH5 2 RBW 100 kHz	402MHz A		ng Emi: 2.404	9,48 dBm 115000 G42 -52.87 #11
Spect Ref Lev Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm	and rum vel 2 unt 1:	Edge 0.00 dBr 35 d 200/120	m Offset B SWT : 0	2.38 dB	NT 1-DH5 2 RBW 100 kHz VBW 300 kHz	402MHz A		ng Emi: 2.404	9,48 dBm 115000 G42 -52.87 #11
Specb Ref Lev SGL Co IPk Ma ID dBm- Co dBm- -10 dBm -20 dBm -30 dBm -40 dBm		Edge	m Offset B SWT : 0	2.38 dB	NT 1-DH5 2 RBW 100 kHz YBW 300 kHz	402MHz A		2.400 2.400	9,48 dbm 415000 G42 -52,87 41 h 000000 444
Specb Ref Lev Att SGL Co IPk Ma ID dBm- Co dBm- -10 dBm -20 dBm -30 dBm -40 dBm		Edge	m Offset B SWT 0	2.38 dB	NT 1-DH5 2 RBW 100 kHz YBW 300 kHz	Mode Auto FFT		2.400 2.400	9,48 dbm 415000 G42 -52,87 41 h 000000 444
Specb Ref Lev SGL Co IPk Ma ID dBm- Co dBm- -10 dBm -20 dBm -30 dBm -40 dBm	and vel 2 unt 1: 38	Edge	m Offset B SWT 0	2.38 dB	NT 1-DH5 2 RBW 100 kHz YBW 300 kHz	Mode Auto FFT		2.400 2.400	9,48 dbm 415000 G42 -52,87 41 h 000000 444
Specb Ref Ler SGL Co IPk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	and rum vel 2: unt 1: ax	Edge	m Offset B SWT 0	2.38 dB	NT 1-DH5 2 RBW 100 kHz VBW 300 kHz	2402MHz Ai Mode Auto FFT M1[1] M2[1]		2.400 2.400	9,48 dBm 415000 GV2 -52.87 dBm 
Specb Ref Lec Att SGL Co 1Pk M: 10 dBm- -10 dBm- -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm	and rum vel 2: unt 1: ax	Edge	m Offset B SWT 0	2.38 dB	NT 1-DH5 2 RBW 100 kHz YBW 300 kHz	2402MHz Ai Mode Auto FFT M1[1] M2[1]		2.400 2.400	9,48 dbm 415000 G42 -52,87 41 h 000000 444
Specb Ref Ler Att SGL Co 1Pk M2 10 dBm- -10 dBm- -20 dBm -20 dBm -40 dBm -40 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	and Cum vel 20 unt 1: 38 D D Cum 20 20 20 20 20 20 20 20 20 20	Edge 0.00 dBr 35 d 200/120 1 -10,96 1 -10,96 GHz	x-valu	2.38 dB = 227.5 μs =	NT 1-DH5 2 RBW 100 kHz VBW 300 kHz	2402MHz Ai Mode Auto FFT M1[1] M2[1]		2.400 2.400	9,48 dBm 9,48 dBm 415000 GH2 -52,87 HBm 000000 HH M2 -2,406 GHz
Specb Ref Ler Att SGL Co 1Pk M2 10 dBm- 0 dBm- -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm	and Cum vel 20 unt 1: 38 D D Cum 20 20 20 20 20 20 20 20 20 20	Edge 0.00 dBr 35 d 200/120 1 -10,98	x-valc 2.40	2.38 dB	NT 1-DH5 2 RBW 100 kHz VBW 300 kHz 	Mode Auto FFT		2.400 2.400	9,48 dBm 9,48 dBm 415000 GH2 -52,87 HBm 000000 HH M2 -2,406 GHz
Specb Ref Ler Att SGL Co IPk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm	and Cum vel 20 unt 1: 38 D D Cum 20 20 20 20 20 20 20 20 20 20	Edge 0.00 dBr 35 d 200/120 1 -10,96 1 -10,96 GHz [Trc   1	m Offset B SWT 0 55 dBm 55 dBm X-vali 2.40	2.38 dB	NT 1-DH5 2 RBW 100 kHz VBW 300 kHz	Mode Auto FFT		2.400 2.400	9,48 dBm 9,48 dBm 415000 GH2 -52,87 HBm 000000 HH M2 -2,406 GHz

ACCREDITED

Certificate #4298.01







Ref Level Att SGL Count	20.00 dBm 35 dB 8000/8000			RBW 100 kHz YBW 300 kHz	Mode A	uto FFT			
1Pk Max									
	-				M	1[1]			8,56 dB
10 dBm			1			-	M1	2.40	410990 GH
				- A	~ ~ ~	A.	m	M	
0 dBm	_		-	1	where	w where	a v v	where i	mon
				1					
-10 dBm	-		-	1/	-			-	
				/					
-20 dBm	-	1 1						-	1
-30 dBm			ma		_			1.000	
-50 060		1	V						
-40 dBm	_	/			_				
0.000		1							
-50 dBm		mond		+	_				-
mun pr	mont								
-60 dBm							-	-	1
1.5									
-70 dBm									1
1.2	12								
									11 F. (71) 77 - A 97 - 7
Spectrun Ref Level	d Edge(	Offset 2.	38 dB 🖷	1001 IT 2-DH5 RBW 100 kHz	2402N		I Hoppii		ssion
Band Spectrum Ref Level Att SGL Count	][ d Edge( □	Offset 2.	38 dB 🖷	IT 2-DH5	2402N		I Hoppin		ssion
Band Spectrun Ref Level Att	d Edge( 20.00 dBm 35 dB	Offset 2.	38 dB 🖷	IT 2-DH5 RBW 100 kHz	2402N Mode		I Hoppii		ssion
Band Spectrum Ref Level Att SGL Count	d Edge( 20.00 dBm 35 dB	Offset 2.	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppii	ng Emis	7.83 dB
Band Spectrum Ref Level Att SGL Count • 1Pk Max 10 dBm-	d Edge( 20.00 dBm 35 dB	Offset 2.	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	7.83 dB
Band Spectrun Ref Level Att SGL Count 9 1Pk Max	d Edge( 20.00 dBm 35 dB	Offset 2.	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	55ion
Band Spectrun Ref Level Att SGL Count SGL Count 10 dBm- 0 dBm-	20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	7.83 dB
Band Spectrum Ref Level Att SGL Count • 1Pk Max 10 dBm-	20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	7.83 dB
Band Spectrum Ref Level Att SGL Count SGL Count 1D dBm- 0 dBm- -10 dBm- -20 dBm-	20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	7.83 dB
Band Spectrun Ref Level Att SGL Count 10 dBm	20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22	38 dB 🖷	IT 2-DH5 RBW 100 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	7.83 dB
Band Spectrum Ref Level Att SGL Count SGL Count 1D dBm- 0 dBm- -10 dBm- -20 dBm-	20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22	38 dB 🖷	IT 2-DH5 RBW 100 kHz VBW 300 kHz	24021V Mode ,	Auto FFT.	I Hoppin	ng Emis	7.83 dB 405000 de -48.36 dP
Band Spectrum Ref Level Att SGL Count • 1Pk Max 10 dBm- - 0 dBm- - 20 dBm- - 20 dBm- - 30 dBm- - 40 dBm-	D Edge( 20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22 dBm	38 dB	NT 2-DH5	24021V Mode ,	Auto FFT.	I Hoppin	2.40 2.40	7.83 dB 405000 dG -48.36 dB 00000 NA -48.36 dB
Band Spectrun Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	D Edge( 20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22	38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Mode / M	Auto FFT.	I Hoppin	ng Emi: 2.40 2.40	7.83 dB 405000 dG -48.36 dB 00000 NA -48.36 dB
Band Spectrum Ref Level Att SGL Count 10 dBm	D Edge( 20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22 dBm	38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Mode / M	Auto FFT.		2.40 2.40	7.83 dB 405000 dG -48.36 dB
Band Spectrun Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	D Edge( 20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22 dBm	38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Mode / M	Auto FFT.		2.40 2.40	7.83 dB 405000 dG -48.36 dB
Band Spectrum Ref Level Att SGL Count •1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	D1 -11.439	Offset 2. SWT 22 dBm	38 dB	NT 2-DH5	2402N	Auto FFT.		2.40 2.40	7.83 dB 405000 de -48.36 dB
Band Spectrum Ref Level Att SGL Count •10 dBm	D1 -11.439	Offset 2. SWT 22 dBm	38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N	Auto FFT.		2.40 2.40	7.83 dB 405000 dG -48.36 dB
Banc Spectrun Ref Level Att SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	20.00 dBm 35 dB 1200/1200	dBm	38 dB 7.5 µs	NT 2-DH5 RBW 100 kHz VBW 300 kHz 300 kHz M4 M4 M4 1001	2402N Mode	Auto FFT.	In the part	2.40 2.40 2.40	7.83 dB 405000 df -48.36 dP 00000 df -48.36 dP 0000 df -48.36 dF
Band Spectrum Ref Level Att SGL Count •10 dBm	20.00 dBm 35 dB 1200/1200	Offset 2. SWT 22 dBm	38 dB = 7.5 µs =	NT 2-DH5	2402N Mode	Auto FFT.	In the part	2.40 2.40	7.83 dB 405000 df -48.36 dP 00000 df -48.36 dP 0000 df -48.36 dF -
Band           Spectrum           Ref Level           Att           SGL Count           © 1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.30           Marker           Type           M2	D -11.439	Offset 2. SWT 22 dBm dBm x-value 2.4040 2.	38 dB 7.5 μs	NT 2-DH5 RBW 100 kHz VBW 300 kHz M4 M4 1001 Y-value 7.83 dBm -48.36 dBm	2402N Mode / M M M m m m	Auto FFT.	In the part	2.40 2.40 2.40	7.83 dB 405000 df -48.36 dP 00000 df -48.36 dP 0000 df -48.36 dF -
Band Spectrum Ref Level Att SGL Count • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm <b>Stort 2.300</b> Marker <b>Type</b> Re M1	d Edge( 20.00 dBm 35 dB 1200/1200 01 -11.439 01 -11.439 6 GHz f Trc 1	Offset 2. SWT 22 dBm dBm <u>X-value</u> 2.4040 2.3	38 dB 7.5 μs	IT 2-DH5 RBW 100 kHz VBW 300 kHz 100 kHz VBW 100 kHz VBW 300 kHz VBW 100 kHz VB	2402N Mode / M M M	Auto FFT.	In the part	2.40 2.40 2.40	7.83 dB 405000 df -48.36 dP 00000 df -48.36 dP 0000 df -48.36 dF -



Ref Level 20 Att SGL Count 80	35 dB	SWT 18.9			Mode Au	uto FFT			
1Pk Max		1-1-		Ť – Í	M	1[1]			7.96 dB
10 -0		MI				et et		2.47	795400 GH
10 dBm	n	M	-1	- AA	17.				
0 dBm	m	the state		mari	m		-		
-10 dBm									
-10 (15/1)									
-20 dBm	_			-					*
-30 dBm						A	-	1	11-11-1
-Se dom						mm			
-40 dBm				-	-		-	-	-
-50 dBm							4		
ou abin							m	mon	mm
-60 dBm	_			1	-				-
-70 dBm						-	-		
y o upin					$[1, \dots, n]$	1			1.000
A second second second				A CONTRACTOR OF A CONTRACTOR O					
Spectrum Ref Level 20	).00 dBm	(Hopping)	dB 🖷	RBW 100 kHz	2480M		<b>H</b> oppir		ssion
Band I	1.00 dBm 35 dB	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M		Hoppir		ssion
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max	1.00 dBm 35 dB	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M		Hoppir	ng Emis	Ssion
Band I Spectrum Ref Level 20 Att SGL Count 12 • 1Pk Max	1.00 dBm 35 dB	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M Mode 4	Auto FFT.	I Hoppir	ng Emi: 2.47	3.47 dBr 335000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max	1.00 dBm 35 dB	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M Mode 4	Auto FFT.	Hoppir	ng Emi: 2.47	3.47 dBr
Band I Spectrum Ref Level 20 Att SGL Count 12 SGL Count 12 IPk Max	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M Mode 4	Auto FFT.	I Hoppir	ng Emi: 2.47	3.47 dBr 335000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 • 1Pk Max	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M Mode 4	Auto FFT.	Hoppir	ng Emi: 2.47	3.47 dBr 335000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 IPk Max Mg1dBm -10 cBm D1	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M Mode 4	Auto FFT.	I Hoppir	ng Emi: 2.47	3.47 dBr 335000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 SGL Count 12 IPk Max IPIdBm -10 cBm -20 cBm -20 cBm	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB 🖷	<b>NT 2-DH5</b> <b>RBW</b> 100 kHz	2480M Mode 4	Auto FFT.	1 Hoppir	ng Emi: 2.47	3.47 dBr 335000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 SGL Count 12 IPk Max IPrdBm -10 cBm -20 cBm -30 dBm -30 dBm -30 dBm	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB µs	NT 2-DH5	2480M	Auto FFT		2.471 2.480	3.47 dBr 33.47 dBr 33.5000 GH -53.45 dBr 350000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 IPk Max IMIdBm -10 cBm -10 cBm -20 cBm -30 dBm -40 dBm -50 dBm	0.00 dBm 35 dB 00/1200	Offset 2.42 SWT 227.5	dB µs	NT 2-DH5	2480M	Auto FFT	Hoppir	2.471 2.480	3.47 dBr 33.47 dBr 33.5000 GH -53.45 dBr 350000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max 191dBm -10 cBm -20 cBm -20 cBm -30 dBm -50 dBm -50 dBm	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB µs	NT 2-DH5	2480M	Auto FFT		2.471 2.480	3.47 dBr 33.47 dBr 33.5000 GH -53.45 dBr 350000 GH
Band I Spectrum Ref Level 20 Att SGL Count 12 IPk Max IMIdBm -10 cBm -10 cBm -20 cBm -30 dBm -40 dBm -50 dBm	0.00 dBm 35 dB 200/1200	Offset 2.42 SWT 227.5	dB µs	NT 2-DH5	2480M	Auto FFT		2.471 2.480	3.47 dBr 33.47 dBr 33.5000 GH -53.45 dBr 350000 GH
Band I           Spectrum           Ref Level 20           Att           SGL Count 12           IPk Max           IMIdBm           IMIdBm           IMIdBm           IMIdBm           IMIdBm           IMIdBm           IMIdBm           SGL Count 12           IMIdBm           IMIdBm      <	0.00 dBm 35 dB 200/1200 -12,043	Offset 2.42 SWT 227.5	dB µs	NT 2-DH5	2480M	Auto FFT		2.471 2.483	3.47 dBr 33.47 dBr 33.5000 GH -53.45 dBr 350000 GH
Band I           Spectrum           Ref Level 20           Att           SGL Count 12           IPk Max           IMIdBm           IMIdBm           IMIdBm           IMIdBm           IMIdBm           IMIdBm           IMIdBm           SGL Count 12           IMIdBm           IMIdBm      <		Offset 2.42 SWT 227.5	dB µs	IT 2-DH5	2480M	Auto FFT	horan the same the sa	2.471 2.483	3.47 dBr 3.47 dBr 335000 GH 53.45 dBr 53.45 dBr
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max 191dBm -10 cBm -20 cBm -20 cBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm <b>Start 2.476 G</b> Marker Type Ref M1	M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Offset 2.42 SWT 227.5	Jandamu Jandamu	IT 2-DH5 RBW 100 kHz VBW 300 kHz 100	2480M	Auto FFT	horan the same the sa	2.471 2.483	3.47 dBr 3.47 dBr 335000 GH 53.45 dBr 53.45 dBr
Band I Spectrum Ref Level 20 Att SGL Count 12 IPk Max IPIdBm -10 cBm -10 cBm -20 cBm -30 dBm -30 dBm -50 dB -50 dB -70 dBm -70 dBm Start 2.476 G Marker Type   Ref	M4 M4 M4 M4 Hz Trc	Offset 2.42 SWT 227.5	dB µs modulu	T 2-DH5	2480M	Auto FFT	here the same the sa	2.471 2.483	3.47 dBr 3.47 dBr 335000 GH 53.45 dBr 53.45 dBr



Att 35 d SGL Count 8000/800		• <b>VBW</b> 300 kHz	Mode Auto FFT			
●1Pk Max	1 1	- T T	M1[1]			7.87 dB
			IM1	1	2,402	94310 G
10 dBm		Ma	My	An	m	1
0 dBm			my m	Mr. ~ m	m. n	mm
		/				
-10 dBm		1			1, 1	
-20 dBm						
-30 dBm	A	mal		_		
1000						
-40 dBm	1			-	h	
-50 dBm	and			_		
man						
-60 dBm						
-70 dBm				-		-
-70 0811						
1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			£	_	· · · · ·	
CF 2.402 GHz		1001 p	ts	· · · · ·	Spar	n 8.0 MH
Band Edge	e(Hopping) N\ m offset 2.38 dB	/NT 3-DH5 :	]	nt1 Hoppir		sion
Band Edge	m <b>Offset</b> 2.38 dB B <b>SWT</b> 227.5 µs	/NT 3-DH5	]			sion
Band Edge Spectrum Ref Level 20.00 dBi Att 35 d	m <b>Offset</b> 2.38 dB B <b>SWT</b> 227.5 µs	/NT 3-DH5	2402MHz Ar Mode Auto FFT			sion
Band Edge Spectrum Ref Level 20.00 dB Att 35 d SGL Count 1200/120 1Pk Max	m <b>Offset</b> 2.38 dB B <b>SWT</b> 227.5 µs	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge Spectrum Ref Level 20.00 dBr Att 35 d SGL Count 1200/120 1Pk Max 10 dBm	m <b>Offset</b> 2.38 dB B <b>SWT</b> 227.5 µs	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge Spectrum Ref Level 20.00 dB Att 35 d SGL Count 1200/120 1Pk Max	m <b>Offset</b> 2.38 dB B <b>SWT</b> 227.5 µs	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge Spectrum Ref Level 20.00 dBr Att 35 d SGL Count 1200/120 1Pk Max 10 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge Spectrum Ref Level 20.00 dBi Att 35 d SGL Count 1200/120 1Pk Max 10 dBm 0 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBi           Att 35 d           SGL Count 1200/120           • IPk Max           10 dBm           0 dBm           -10 dBm           D1 -12.12	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBi           Att 35 d           SGL Count 1200/120           • IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT		ng Emis	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBr           Att 35 d           SGL Count 1200/120           ID dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	m Offset 2.38 dB B SWT 227.5 μs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT		2.404	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBi           Att 35 d           SGL Count 1200/120           • IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT		2.404 2.400	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBi           Att 35 d           SGL Count 1200/120           • IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT 		2.404 2.400	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBi           Att 35 d           SGL Count 1200/120           ID dBm           10 dBm           0 dBm           -10 dBm           -30 dBm           -30 dBm           -40 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT 		2.404 2.400	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBn           Att 35 d           SGL Count 1200/120           • IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT 		2.404 2.400	5.49 dB
Band Edge           Spectrum           Ref Level 20.00 dBn           Att 35 d           SGL Count 1200/120           • IPk Max           1D dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.306 GHz	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT M1[1] M2[1]		2.404	5.49 dB 05000 G 50.31 dB 000000 G
Band Edge           Spectrum           Ref Level 20.00 dBn           Att 35 d           SGL Count 1200/120           • IPk Max           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm	m Offset 2.38 dB B SWT 227.5 µs 0	/NT 3-DH5	2402MHz Ar Mode Auto FFT M1[1] M2[1]		2.404	5.49 dB 35000 GN 50.31 dB 000000 dW
Band Edge           Spectrum           Ref Level 20.00 dBi           Att 35 d           SGL Count 1200/120           ID dBm           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.306 GHz           Marker           Type         Ref Trc           M1         1	т Offset 2.38 dB B SWT 227.5 µs 0 27 dBm 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	/NT 3-DH5 2	2402MHz Ar Mode Auto FFT M1[1] M2[1] M2[1]		2.404 2.404	5.49 dB 35000 GH 50.31 dB 00000 GH 2.406 GH
Band Edge           Spectrum           Ref Level 20.00 dBr           Att 35 d           SGL Count 1200/120           ID dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -70 dBm           -70 dBm           Start 2.306 GHz           Marker           Type   Ref   Trc	m Offset 2.38 dB B SWT 227.5 µs 0 27 dBm 4 4 4 4 4 4 4 4 5 7 4 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/NT 3-DH5	2402MHz Ar Mode Auto FFT M1[1] M2[1]		2.404 2.404	5.49 dB 35000 GN 50.31 dB 000000 GN 400 2.406 GH







## 8.9 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-60.2	-20	Pass
NVNT	1-DH5	2441	Ant1	-60.21	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.21	-20	Pass
NVNT	2-DH5	2402	Ant1	-58.91	-20	Pass
NVNT	2-DH5	2441	Ant1	-58.52	-20	Pass
NVNT	2-DH5	2480	Ant1	-58.91	-20	Pass
NVNT	3-DH5	2402	Ant1	-58.78	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.66	-20	Pass
NVNT	3-DH5	2480	Ant1	-58.65	-20	Pass



Spectrum		- **	12					
Ref Level Att	20.00 dBm 30 dB		3 dB 🖷 RBW 10 9 µs 🖷 VBW 30		Auto FET			2.5
SGL Count 1		21/0 201		a to the fillend	indice in the			
1Pk Max			- T	1				
					41[1]		2,40210	9.02 dBm 62460 GHz
10 dBm				M1	1	F F		
			-					
0 dBm				-	1			
						-	~	
-10 dBm							~	1,
-20 dBm				-			-	
-20 abili								
-30 dBm				_				
				-				
-40 dBm	-			-	-			
1.00								
-50 dBm								
-60 dBm								
-00 00m			1					
-70 dBm				_			· · · · ·	
	_							
CF 2.402 GH	1z		3	0001 pts	]	CIRC	Spa	n 1.5 MHz
CF 2.402 GH	Tx.	Spurious	3 NVNT 1-D		MHz Ant	1 Emissi		n 1.5 MHz
Spectrum Ref Level Att	Tx. 20.00 dBm 30 dB	Offset 2.38		0H5 24021				
Spectrum Ref Level	Tx. 20.00 dBm 30 dB	Offset 2.38	NVNT 1-D	0 KHZ 0 KHZ 0 KHZ Mode	Auto Sweep			
Spectrum Ref Level Att SGL Count 1 1Pk Max M1	Tx. 20.00 dBm 30 dB	Offset 2.38	NVNT 1-D	0 KHZ 0 KHZ 0 KHZ Mode			on	(₩) 9.24 dBm
Spectrum Ref Level Att SGL Count 1 1Pk Max	Tx. 20.00 dBm 30 dB	Offset 2.38	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 1Pk Max M1	Tx. 20.00 dBm 30 dB	Offset 2.38	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 O HBM 10 dBm 0 dBm	Tx. 20.00 dBm 30 dB .0/10	Offset 2.38 SWT 265	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm	Tx. 20.00 dBm 30 dB .0/10	Offset 2.38 SWT 265	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm	Tx. 20.00 dBm 30 dB .0/10	Offset 2.38 SWT 265	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm	Tx. 20.00 dBm 30 dB .0/10	Offset 2.38 SWT 265	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm	Tx. 20.00 dBm 30 dB 0/10	Offset 2.38 SWT 265	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		0n 2.4 22.8	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	Tx. 20.00 dBm 30 dB .0/10	Offset 2.36 SWT 265	NVNT 1-C	0H5 2402N	Auto Sweep		on 2.4	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 20.00 dBm 30 dB 0/10	Offset 2.36 SWT 265	NVNT 1-D	0H5 2402N 0 kHz 0 kHz Mode	Auto Sweep		0n 2.4 22.8	
Spectrum Ref Level Att SGL Count J 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx. 20.00 dBm 30 dB 0/10	Offset 2.36 SWT 265	NVNT 1-C	0H5 2402N	Auto Sweep		0n 2.4 22.8	
Spectrum Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 20.00 dBm 30 dB 0/10	Offset 2.36 SWT 265	NVNT 1-C	0H5 2402N	Auto Sweep		0n 2.4 22.8	
Spectrum Ref Level Att SGL Count J 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Tx. 20,00 dBm 30 dB 0/10	Offset 2.36 SWT 265	NVNT 1-C	0H5 2402N	Auto Sweep		0n 2.4 22.8	
Spectrum Ref Level Att SGL Count J IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	Tx. 20,00 dBm 30 dB 0/10	Offset 2.36 SWT 265	NVNT 1-C	DH5 2402N	Auto Sweep		0n 2.4 22.8	9.24 dBm 02070 GHz 51.18 dBm 05670 GHz
Spectrum Ref Level Att SGL Count J 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Tx. 20.00 dBm 30 dB 0/10 11 -10,977 M3 11 -10,977 11 -10,977 1	Offset 2.36 SWT 265	NVNT 1-D	DH5 24021	Auto Sweep		0n 2.4 22.8	9.24 dBm 02070 GHz 51.18 dBm 05670 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Tx. 20.00 dBm 30 dB 0/10 11 -10,977	Offset 2.36 SWT 265	NVNT 1-D	0H5 2402N	Auto Sweep		0n 2.4 22.8 <u>M2</u> Stop	9.24 dBm 02070 GHz 51.18 dBm 05670 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70	Tx. 20.00 dBm 30 dB 0/10 11 -10.977 M3 M3 M2 M2 M2 M2 11 -10 1 1 1 1	Offset 2.36 SWT 265	NVNT 1-D 3 dB RBW 10 5 ms VBW 30 105 105 105 105 105 105 105 10	0H5 2402N	Auto Sweep		0n 2.4 22.8 <u>M2</u> Stop	9.24 dBm 02070 GHz 51.18 dBm 05670 GHz
Spectrum Ref Level Att SGL Count J SGL Count J ID dBm M1 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm Stort 30.0 M Marker Type Ref M1 M2 M3 M4	Tx. 20,00 dBm 30 dB 0/10 1 -10,977 M2 11 -10,977 M2 11 -10,977 11 -10	Offset 2.36 SWT 265	NVNT 1-D 3 dB RBW 10 5 ms VBW 30 1015	DH5 24021	Auto Sweep		0n 2.4 22.8 <u>M2</u> Stop	9.24 dBm 02070 GHz 51.18 dBm 05670 GHz
Spectrum Ref Level Att SGL Count 1 IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70	Tx. 20.00 dBm 30 dB 0/10 11 -10.977 M3 M3 M2 M2 M2 M2 11 -10 1 1 1 1	Offset 2.36 SWT 265	NVNT 1-D 3 dB RBW 10 5 ms VBW 30 1015	0H5 2402N	Auto Sweep		0n 2.4 22.8 <u>M2</u> Stop	9.24 dBm 02070 GHz 51.18 dBm 05670 GHz



