



# RADIO TEST REPORT FCC ID: 0556562923

Certificate #4298.0

Product:4G Smart PhoneTrade Mark:LOGIC, iSWAG, UNONUModel No.:L66MFamily Model:REX, 6601Report No.:S23082106601001Issue Date:Sep 14, 2023

# **Prepared for**

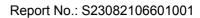
SWAGTEK

10205 NW 19th Street STE101 Miami, FL 33172, United States

# Prepared by

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	0.9	CONDUCTED VL OLORIOOS EMISSION	





## **1 TEST RESULT CERTIFICATION**

Applicant's name:	SWAGTEK
Address:	10205 NW 19th Street STE101 Miami, FL 33172, United States
Manufacturer's Name	SWAGTEK
Address:	10205 NW 19th Street STE101 Miami, FL 33172, United States
Product description	
Product name:	4G Smart Phone
Trade Mark:	LOGIC, iSWAG, UNONU
Model and/or type reference:	L66M
Family Model	REX, 6601
Test Sample Number	S230821066001
Least and the second seco	·

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	:	Aug 21, 2023 ~Sep 14, 2023
Testing Engineer	:	Mukri Lee
		(Mukzi Lee)
Authorized Signatory	:	Alex
,	·	(Alex Li)





## 2 SUMMARY OF TEST RESULTS

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

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

 All test items were verified and recorded according to the standards and without any deviation during the test.





## **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
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

#### 3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y\pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%





# **4** GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	4G Smart Phone			
Trade Mark	LOGIC, iSWAG, UNONU			
FCC ID	O556562923			
Model No.	L66M			
Family Model	REX, 6601			
Model Difference	All the model are the same circuit and RF module, except the model names.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK, π/4-DQPSK, 8-DPSK			
Number of Channels	79 Channels			
Antenna Type	PIFA Antenna			
Antenna Gain	-2 dBi			
Adapter	Model: UT-681A-5200ZCY Input: 100-240V, 50-60Hz 0.35A Output: 5.0V2.0A 10.0W			
Battery	DC 3.85V, 4900mAh, 18.865Wh			
Power supply	DC 3.85V from battery or DC 5V from Adapter.			
HW Version	V1.0			
SW Version	LOGIC_L66M_GENERIC_V1.0_02082023			

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





#### **Revision History**

Report No.	Version	Description	Issued Date
S23082106601001	Rev.01	Initial issue of report	Sep 14, 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 neuron line Conducted Environment to the device on viscours output a super-				

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

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

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

For Conducted Test Cases					
Final Test Mode	Description				
Mode 2	CH00(2402MHz)				
Mode 3	CH39(2441MHz)				
Mode 4	CH78(2480MHz)				
Mode 5	Hopping mode				
Note: The engineering	test program was provided and the EUT was programmed to be in continuous				

transmitting mode.



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or Radiated Test Cases	C-2	EUT AE-2 Earphone	C-1 AE-1 Adapter	AC PLUC	}
Conducted Test Cases	Radiated Test (				
	r Conducted Tes	t Cases			





#### 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	4G Smart Phone	L66M	N/A	N/A
AE-1	Adapter	UT-681A-5200ZCY	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	0.8m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

#### Notes:

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





#### 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test 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

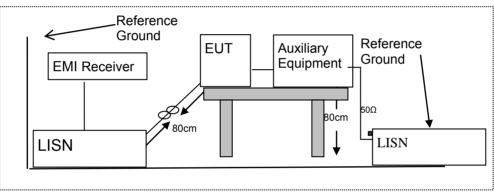
	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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

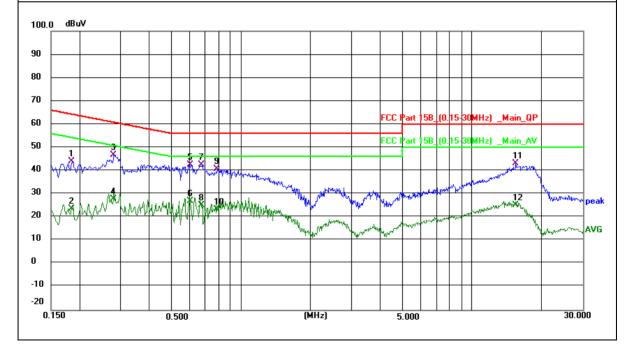
EUT:	4G Smart Phone	Model Name :	L66M
Temperature:	<b>22.1</b> ℃	Relative Humidity:	53%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

1	1	1	1		1	1
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1844	33.92	9.99	43.91	64.29	-20.38	QP
0.1844	13.53	9.99	23.52	54.29	-30.77	AVG
0.2787	36.70	10.20	46.90	60.85	-13.95	QP
0.2787	17.55	10.20	27.75	50.85	-23.10	AVG
0.6020	31.60	10.85	42.45	56.00	-13.55	QP
0.6020	16.19	10.85	27.04	46.00	-18.96	AVG
0.6740	31.64	10.99	42.63	56.00	-13.37	QP
0.6740	14.25	10.99	25.24	46.00	-20.76	AVG
0.7860	29.62	11.24	40.86	56.00	-15.14	QP
0.7860	12.00	11.24	23.24	46.00	-22.76	AVG
15.3580	33.46	9.71	43.17	60.00	-16.83	QP
15.3580	15.59	9.71	25.30	50.00	-24.70	AVG

#### Remark:

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

2. Factor = Insertion Loss + Cable Loss.

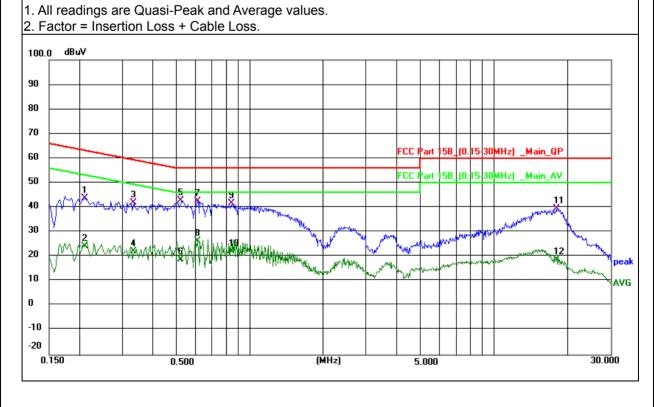






EUT:		4G Smar	t Phone		Model Name :		L66M	
Temperature	mperature: 22.1°C Relative Humidity:				ity:	53%		
Pressure:		1010hPa			Phase :		Ν	
Test Voltage :		DC 5V fro	om Adapter AC	120V/60Hz	Test Mode:		Mode 1	
Frequency	Read	ding Level	Correct Factor	Measure-ment	Limits	Ma	rgin	Remark
(MHz)	(	dBµV)	(dB)	(dBµV)	(dBµV)	(0	IB)	Remark
0.2100	:	33.76	10.06	43.82	63.21	-19	9.39	QP
0.2100		14.20	10.06	24.26	53.21	-28	3.95	AVG
0.3339	;	31.59	10.30	41.89	59.35	-17	7.46	QP
0.3339		11.79	10.30	22.09	49.35	-27	7.26	AVG
0.5181	:	32.30	10.69	42.99	56.00	-13	3.01	QP
0.5181		8.13	10.69	18.82	46.00	-27	7.18	AVG
0.6100	;	31.64	10.87	42.51	56.00	-13	3.49	QP
0.6100		15.59	10.87	26.46	46.00	-19	9.54	AVG
0.8420	:	30.17	11.34	41.51	56.00	-14	1.49	QP
0.8420		10.93	11.34	22.27	46.00	-23	3.73	AVG
18.0300	:	29.87	9.71	39.58	60.00	-20	).42	QP
18.0300		9.21	9.71	18.92	50.00	-31	.08	AVG

Remark:







#### 7.2 RADIATED SPURIOUS EMISSION

#### 7.2.1 Applicable Standard

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

#### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

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

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

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

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



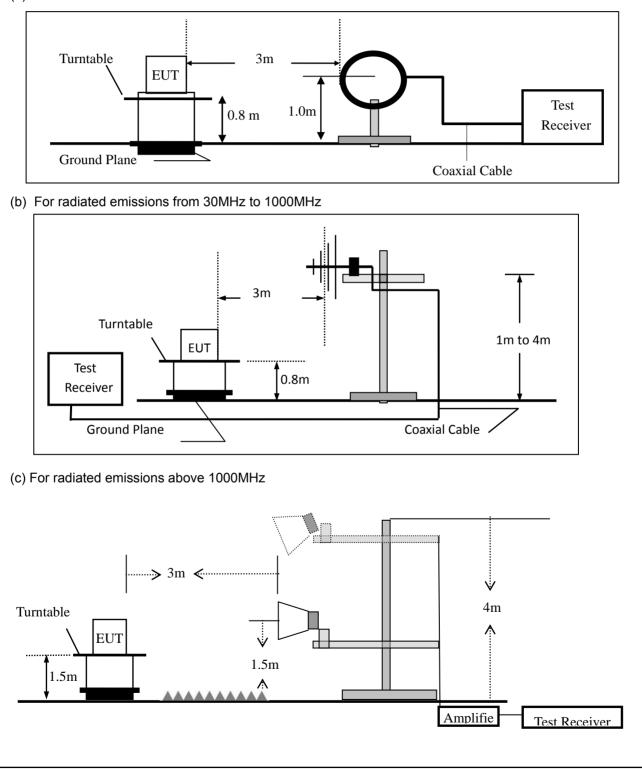


#### 7.2.3 Measuring Instruments

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

#### 7.2.4 Test Configuration

(a) For radiated emissions below 30MHz







#### 7.2.5 Test Procedure

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

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

ele ale lenewing opeen and analyzer beamig	5.					
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 test, the Spectrum Analyzer was set with the following configurations:

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

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

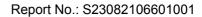
#### 7.2.6 Test Results

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

EUT:	4G Smart Phone	Model No.:	L66M
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(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV	

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





# ACCREDITED Certificate #4298.01

Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below: EUT: 4G Smart Phone Model Name : L66M **25.4** ℃ Relative Humidity: 54% Temperature: Test Mode: Pressure: 1010hPa Mode 4 DC 3.85V Test Voltage : Meter Emission Frequency Factor Limits Margin Polar Reading Level Remark (H/V) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) 18.08 -18.96 V 104.9033 6.46 24.54 43.50 QP V 163.7550 8.44 17.84 26.28 43.50 -17.22 QP V 240.8304 7.38 18.11 46.00 -20.51 QP 25.49 V 345.5952 5.69 21.58 27.27 46.00 -18.73 QP V 545.1826 5.54 25.54 31.08 46.00 -14.92 QP V 807.4291 6.45 29.62 36.07 46.00 -9.93 QP Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit dBuV/m 80.0 70 60 FCC Part 15-Class B-30-1000MHz-Radiated-QP 50 40 5 30 why where New Mary Court 2 X 3 1 the Michael Martin Martin 20 My man work work 10 0.0 30.000 60.00 (MHz) 1000.000 300.00





Pol		Frequ	ency		M Rea	lete adi		Fac	ctor	En L	nis: _ev		n		Limi	ts	Ма	argin		Re	ema	ırk
(H/	V)	(M⊦	łz)		(d	Bu	V)	(d	B)	(dE	3u\	//m	I)		(dBuV	/m)	(0	dB)				
H	1	37.8	121			1.30		22	.19	2	26.4	19			40.0	0	-1	3.51			QP	
Н		83.2	298		4	1.75	5	15	.82	2	20.5	57			40.0	0	-1	9.43			QP	
H	1	172.5	5988		-	5.74		17	.35	2	23.0	)9			43.5	0	-2	0.41			QP	
H	1	379.9	)141		5	5.07	7	22	.79	2	27.8	36			46.0	0	-18	8.14			QP	
H		502.9				6.03		24			30.9				46.0	0	-1	5.07			QP	
H		830.4	002		6	6.89	)	29	.99	3	86.8	38			46.0	0	-9	9.12			QP	
Emi		Level=	Mete	er R	ead	ing	+ F	actor, I	Margi	n= Er	nis	sio	n l	Le	vel - Lin	nit						
80.0	dBu	√/m	1										_				1	1				
70																					_	
60																						
											FCO	Pa	at 1!	5-CI	ass B-30-1	000MHz	-Radiat	ed-QP				
50												gin-									П	
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10																						
0.0																						
30	.000		6	0.00					(	MHz)			-	3	00.00					10	000.0	000





EUT:	4G Sn	nart Pho	one	Model	No.:	L66M	L66M			
Temperature:	<b>20</b> ℃			Relativ	e Humidity	: 48%				
Test Mode:	Mode	2/Mode3	3/Mode4	Test B	y:	Mukzi	Mukzi Lee			
All the modulation	n modes	have be	en tested		vorst result			N:		
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
			Low Chann	el (2402 M	Hz)( GFSK)	-Above 1G				
4804	69.96	5.21	35.59	44.30	66.46	74.00	-7.54	Pk	Vertical	
4804	46.55	5.21	35.59	44.30	43.05	54.00	-10.95	AV	Vertical	
7206	68.73	6.48	36.27	44.60	66.88	74.00	-7.12	Pk	Vertical	
7206	46.02	6.48	36.27	44.60	44.17	54.00	-9.83	AV	Vertical	
4804	69.4	5.21	35.55	44.30	65.86	74.00	-8.14	Pk	Horizontal	
4804	46.12	5.21	35.55	44.30	42.58	54.00	-11.42	AV	Horizontal	
7206	69.8	6.48	36.27	44.52	68.03	74.00	-5.97	Pk	Horizontal	
7206	46.59	6.48	36.27	44.52	44.82	54.00	-9.18	AV	Horizontal	
			Mid Chann	el (2441 M	Hz)( GFSK)-	-Above 1G				
4882	68.73	5.21	35.66	44.20	65.40	74.00	-8.60	Pk	Vertical	
4882	49.78	5.21	35.66	44.20	46.45	54.00	-7.55	AV	Vertical	
7323	69.85	7.10	36.50	44.43	69.02	74.00	-4.98	Pk	Vertical	
7323	47.36	7.10	36.50	44.43	46.53	54.00	-7.47	AV	Vertical	
4882	69.84	5.21	35.66	44.20	66.51	74.00	-7.49	Pk	Horizontal	
4882	45.55	5.21	35.66	44.20	42.22	54.00	-11.78	AV	Horizontal	
7323	68.34	7.10	36.50	44.43	67.51	74.00	-6.49	Pk	Horizontal	
7323	48.52	7.10	36.50	44.43	47.69	54.00	-6.31	AV	Horizontal	
		ŀ	ligh Chann	el (2480 M	Hz)( GFSK)-	Above 1G				
4960	69.13	5.21	35.52	44.21	65.65	74.00	-8.35	Pk	Vertical	
4960	45.22	5.21	35.52	44.21	41.74	54.00	-12.26	AV	Vertical	
7440	68.31	7.10	36.53	44.60	67.34	74.00	-6.66	Pk	Vertical	
7440	50.26	7.10	36.53	44.60	49.29	54.00	-4.71	AV	Vertical	
4960	70.1	5.21	35.52	44.21	66.62	74.00	-7.38	Pk	Horizontal	
4960	48.13	5.21	35.52	44.21	44.65	54.00	-9.35	AV	Horizontal	
7440	70.2	7.10	36.53	44.60	69.23	74.00	-4.77	Pk	Horizontal	
7440	49.49	7.10	36.53	44.60	48.52	54.00	-5.48	AV	Horizontal	

Note:

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



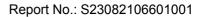


Report No.: S23082106601001

Spurious EUT:	Emission ir 4G Smart		ted Band		0MHz and el No.:	1	5-2500 L66M	MHz			
		Phone									
Temperature:					ive Humidit	5	48%				
Test Mode:	Mode2/ M				Test By: Mukzi Lee						
All the modul						ult was	s repor	rt as bel	ow:		
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level			nits Margin		Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ∖	//m)	(dB)	Туре		
			11	Mbps(GFS	K)-Non-hopp	bing					
2310.00	69.16	2.97	27.80	43.80	56.13	74	ł	-17.87	Pk	Horizontal	
2310.00	46.05	2.97	27.80	43.80	33.02	54	ł	-20.98	AV	Horizontal	
2310.00	70.37	2.97	27.80	43.80	57.34	74	ł	-16.66	Pk	Vertical	
2310.00	48.27	2.97	27.80	43.80	35.24	54	ł	-18.76	AV	Vertical	
2390.00	69.03	3.14	27.21	43.80	55.58	74	ł	-18.42	Pk	Vertical	
2390.00	50.06	3.14	27.21	43.80	36.61	54	ł	-17.39	AV	Vertical	
2390.00	70.51	3.14	27.21	43.80	57.06	74	ł	-16.94	Pk	Horizontal	
2390.00	45.35	3.14	27.21	43.80	31.90	54	ł	-22.10	AV	Horizontal	
2483.50	69.75	3.58	27.70	44.00	57.03	74	ł	-16.97	Pk	Vertical	
2483.50	47.75	3.58	27.70	44.00	35.03	54	ł	-18.97	AV	Vertical	
2483.50	69.35	3.58	27.70	44.00	56.63	74	ļ 🛛	-17.37	Pk	Horizontal	
2483.50	48.23	3.58	27.70	44.00	35.51	54	ł	-18.49	AV	Horizontal	
				1Mbps(G	Mbps(GFSK)-hopping						
2310.00	69.72	2.97	27.80	43.80	56.69	74	ł	-17.31	Pk	Horizontal	
2310.00	45.39	2.97	27.80	43.80	32.36	54	ł	-21.64	AV	Horizontal	
2310.00	70.06	2.97	27.80	43.80	57.03	74	ł	-16.97	Pk	Vertical	
2310.00	50.67	2.97	27.80	43.80	37.64	54	ł	-16.36	AV	Vertical	
2390.00	68.68	3.14	27.21	43.80	55.23	74	ł	-18.77	Pk	Vertical	
2390.00	49.37	3.14	27.21	43.80	35.92	54	t I	-18.08	AV	Vertical	
2390.00	69.45	3.14	27.21	43.80	56.00	74	1	-18.00	Pk	Horizontal	
2390.00	47.89	3.14	27.21	43.80	34.44	54	ļ 🛛	-19.56	AV	Horizontal	
2483.50	70.02	3.58	27.70	44.00	57.30	74	l I	-16.70	Pk	Vertical	
2483.50	46.85	3.58	27.70	44.00	34.13	54	t I	-19.87	AV	Vertical	
2483.50	70.34	3.58	27.70	44.00	57.62	74	1	-16.38	Pk	Horizontal	
2483.50	49.92	3.58	27.70	44.00	37.20	54	ł	-16.80	AV	Horizontal	

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





UT:	4G S	mart Ph	one	M	lodel	No.:		L66M			
emperature:	<b>20</b> ℃			R	Relative Humidity:			48%			
est Mode:	est Mode: Mode2 / Mode3 / Mode4							Mukz	i Lee		
All the modula	ed, and	d the	e worst res	ult wa	s repo	ort as bel	ow:				
Frequency	Reading Level	Cable Loss	Antenna Factor	Prear Fact		Emission Level	Lin	nits	Margin	Detector	Comment
(MHz)	IHz) (dBμV) (dB) dB/m (dB) (dBμV/m) (dBμV/m		V/m)	(dB)	Туре						
3260	68.03	4.04	29.57	44.7	70	56.94	7	4	-17.06	Pk	Vertical
3260	48.6	4.04	29.57	44.7	70	37.51	5	4	-16.49	AV	Vertical
3260	70.21	4.04	29.57	44.7	70	59.12	74		-14.88	Pk	Horizontal
3260	48.76	4.04	29.57	44.7	70	37.67	5	4	-16.33	AV	Horizontal
3332	70.93	4.26	29.87	44.4	40	60.66	7	4	-13.34	Pk	Vertical
3332	49.07	4.26	29.87	44.4	40	38.80	5	4	-15.20	AV	Vertical
3332	69.25	4.26	29.87	44.4	40	58.98	7	4	-15.02	Pk	Horizontal
3332	47.1	4.26	29.87	44.4	40	36.83	5	4	-17.17	AV	Horizontal
17797	57.49	10.99	43.95	43.5	50	68.93	7	4	-5.07	Pk	Vertical
17797	33.08	10.99	43.95	43.5	50	44.52	54		-9.48	AV	Vertical
17788	53.94	11.81	43.69	44.6	60	64.84	74		-9.16	Pk	Horizontal
17788	37.03	11.81	43.69	44.6	60	47.93		4	-6.07	AV	Horizontal

Certificate #4298.01

ilac-M

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:	4G Smart Phone	Model No.:	L66M
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.

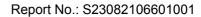
#### 7.4.5 Test Procedure

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

#### 7.4.6 Test Results

EUT:	4G Smart Phone	Model No.:	L66M
Temperature:	<b>20</b> °C	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.

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#### 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:	4G Smart Phone	Model No.:	L66M
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
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  $(0.4 \times 79)$  (s), Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.
- In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time





#### 7.6 20DB BANDWIDTH TEST

#### 7.6.1 Applicable Standard

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

#### 7.6.2 Conformance Limit

No limit requirement.

#### 7.6.3 Measuring Instruments

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

#### 7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW  $\geq$  1% of the 20 dB bandwidth VBW  $\geq$  RBW Sweep = auto Detector function = peak Trace = max hold

#### 7.6.6 Test Results

EUT:	4G Smart Phone	Model No.:	L66M
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  $\geq$  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:	4G Smart Phone	Model No.:	L66M	
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:	4G Smart Phone	Model No.:	L66M
Temperature:	20 °C	Relative Humidity:	48%
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 PIFA antenna (Gain: -2 dBi). It comply with the standard requirement.

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

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

#### 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.





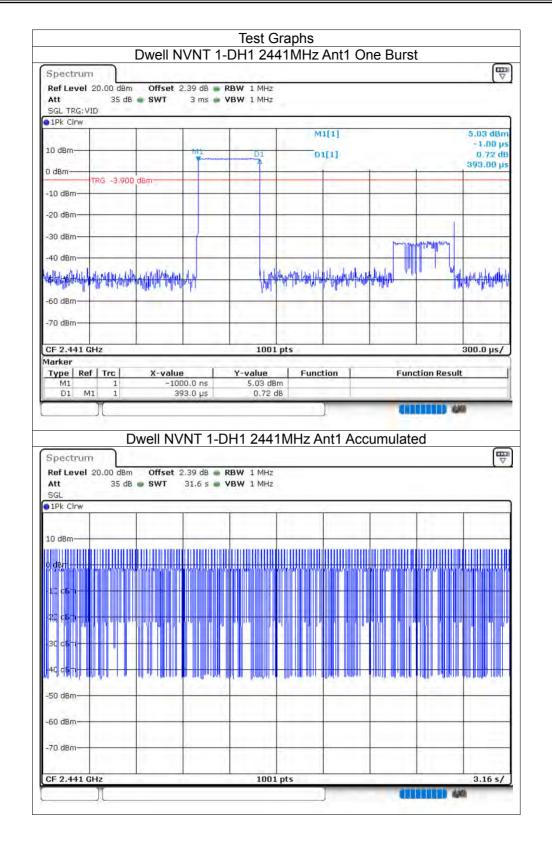
# 8 TEST RESULTS

# 8.1 **DWELL TIME**

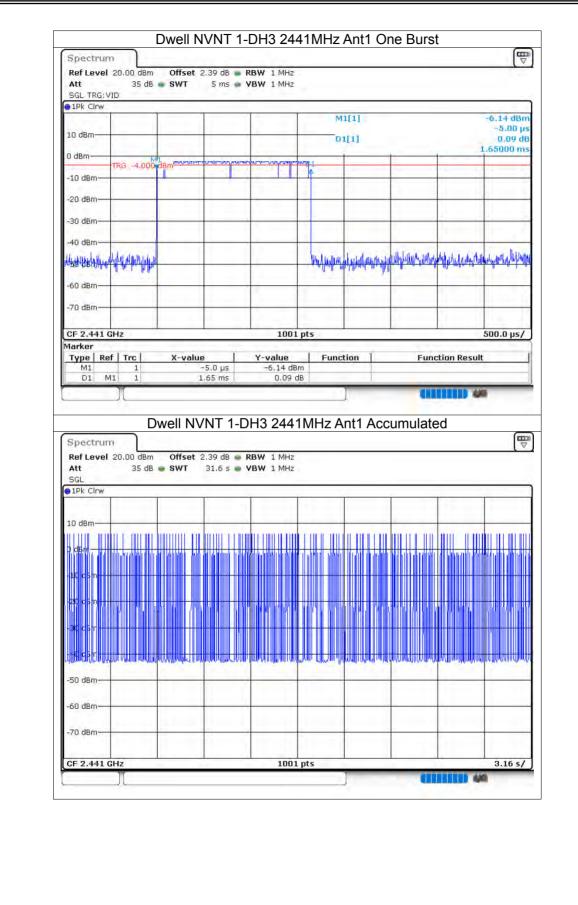
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.393	86.067	219	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.65	231	140	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.904	243.936	84	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.384	85.248	222	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.635	230.535	141	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.888	254.144	88	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.381	83.82	220	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.63	203.75	125	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	254.144	88	31600	400	Pass



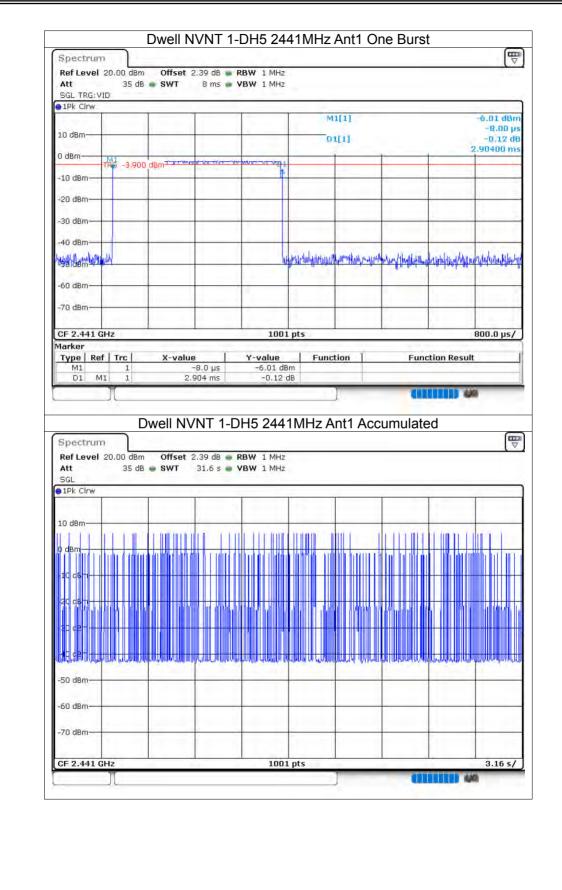
# ACCREDITED Certificate #4298.01



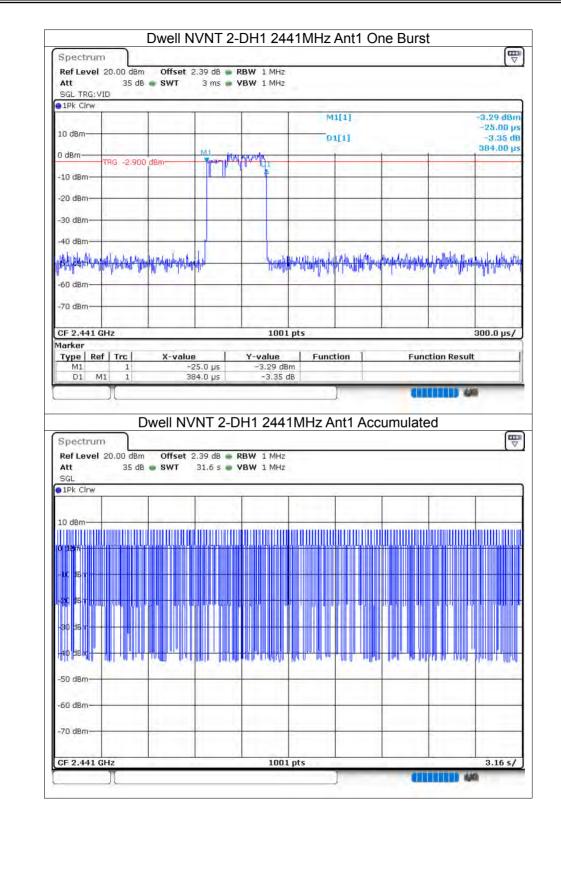






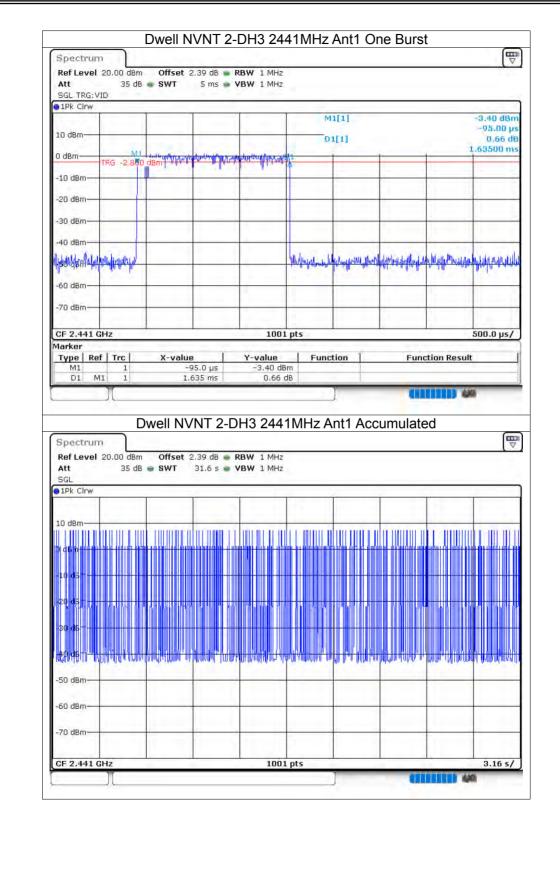




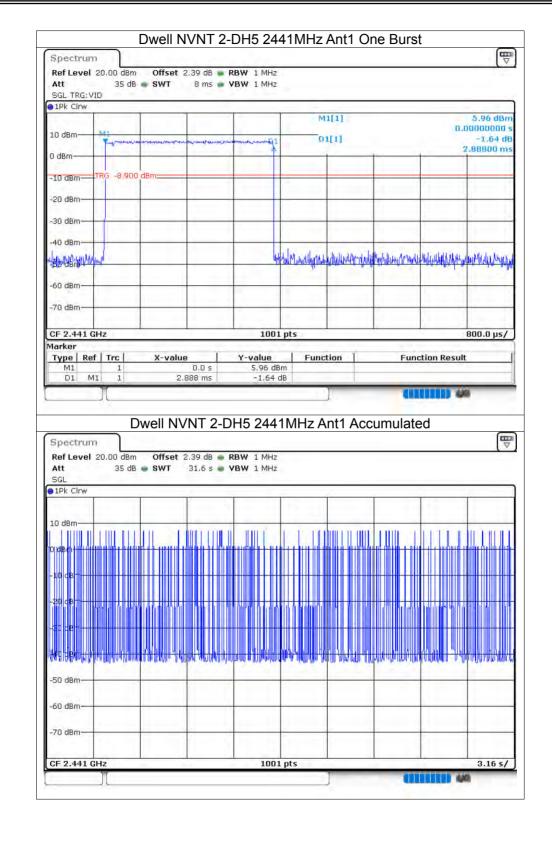




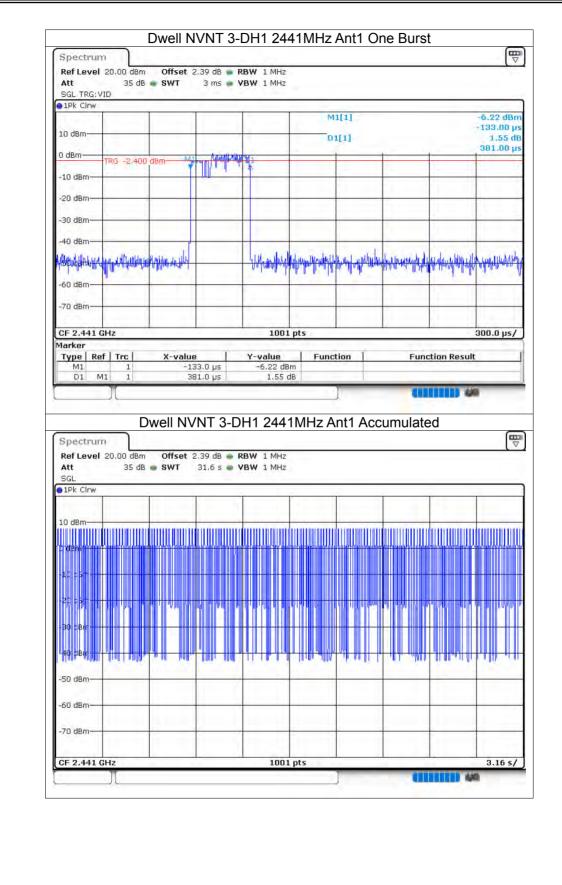
# Certificate #4298.01



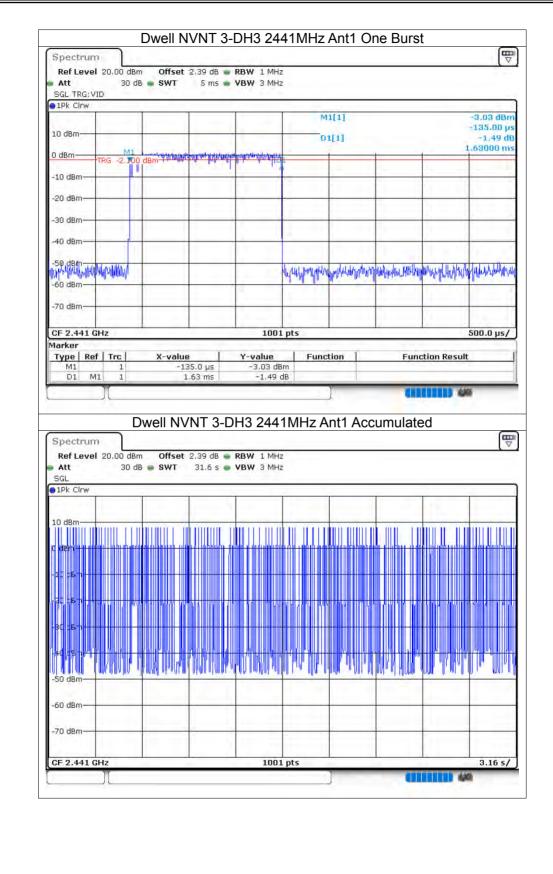






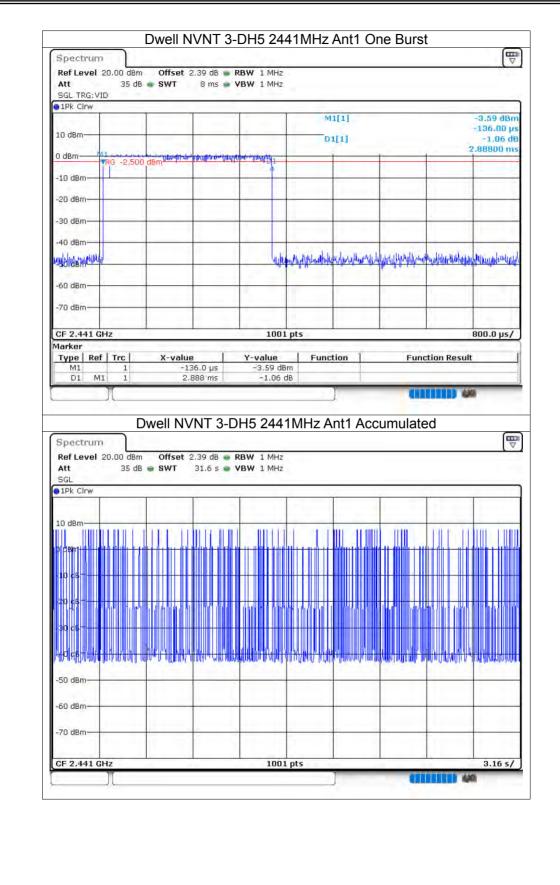




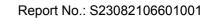




# Certificate #4298.01







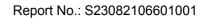
### 8.2 MAXIMUM CONDUCTED OUTPUT POWER

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Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	5.13	21	Pass
NVNT	1-DH5	2441	Ant1	6.13	21	Pass
NVNT	1-DH5	2480	Ant1	6.2	21	Pass
NVNT	2-DH5	2402	Ant1	4.77	21	Pass
NVNT	2-DH5	2441	Ant1	4.29	21	Pass
NVNT	2-DH5	2480	Ant1	4.39	21	Pass
NVNT	3-DH5	2402	Ant1	5.09	21	Pass
NVNT	3-DH5	2441	Ant1	4.71	21	Pass
NVNT	3-DH5	2480	Ant1	4.74	21	Pass

Certificate #4298.01





		D-		NT 1-D	Graphs		\nt1		
e		20			HD 240	ZIVIHZA	41111		Ē
Spectrum Ref Level		Offcot 2	38 dB 🗰 R	RW 2 MH-	_				
Att	35 dB			BW 2 MHz	Mode A	uto Sweep			
SGL Count : 1Pk Max	100/100								
TLE Man					1	M1[1]		-	5,13 dBm
10 dBm						-	1	2,40	218980 GH2
10 00.00					MI	-			
0 dBm	-			-					
10 dBm									
Pro ubin-				-					
-20 dBm			-	-	-	-			
5.2					_				· · · · · ·
-30 dBm	1								
-40 dBm		-			-			-	
-									
-50 dBm									1
-60 dBm	_			-	-				
						1.0			1
-70 dBm				-	-	-			
									11 1211
CF 2.402 GI	J(	Po	wer NV	100 /NT 1-D	<sup>1 pts</sup> H5 244	1 1MHz A	Ant1	Spa	an 5.0 MHz
Spectrum Ref Level 3	20.00 dBm	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244			Spa	an 5.0 MHz
Spectrum Ref Level 3 Att	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	′NT 1-D	H5 244			Spa	8
Spectrum Ref Level 3	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep		Spa	
Spectrum Ref Level 2 Att SGL Count 3	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A				8
Spectrum Ref Level 2 Att SGL Count 3	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 3 IPk Max 10 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 2 DIPk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 3 IPk Max 10 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 2 1Pk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 2 DIPk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 2 1Pk Max 10 dBm 0 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 3 SGL Count 3 IPk Max 10 dBm 0 dBm 0 dBm -20 dBm -20 dBm -30 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 2 Att SGL Count 2 1Pk Max 10 dBm 0 dBm -20 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 3 SGL Count 3 IPk Max 10 dBm 0 dBm 0 dBm -20 dBm -20 dBm -30 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 3 IPk Max 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 3 IPK Max 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 3 IPk Max 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 1 IPk Max 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 📟 R	<b>/NT 1-D</b> <b>BW</b> 2 MHz	H5 244 Mode A	uto Sweep			6,13 dBn
Spectrum Ref Level 3 Att SGL Count 1 IPk Max 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 📟 R	/NT 1-D BW 2 MHz BW 2 MHz	H5 244 Mode A	uto Sweep		2.44	6,13 dBn 114990 GH2

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Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max	dB SWT	.42 dB <b>B RBW</b> 2 1 ms <b>B VBW</b> 2		Auto Sweep	_		(The second seco
IPK Max				M1[1]	_	2.4798	6.20 dBm 34520 GHz
10 dBm			M11	-			
0 dBm			-			-	
-10 dBm							_
-20 dBm			-				
-30 dBm	-		-				-
-40 dBm	-						-
-50 dBm							
-60 dBm							
-70 dBm			-				
			1001 pts	1		Spar	1 5.0 MHz
Spectrum Ref Level 20.00 d Att 35	Bm Offset 2 dB SWT	.38 dB • RBW 2 1 ms • YBW 2	2-DH5 24				(E
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24				4.77 dBm
Att 35	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4,77 dBm 14940 GHz
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz MHz Mode	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum        Ref Level 20.00 d        Att 35        SGL Count 100/100        1Pk Max        10 dBm        -10 dBm        -10 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -40 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -50 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep			4.77 dBm
Spectrum Ref Level 20.00 d Att 35 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Bm Offset 2 dB SWT	.38 dB 👜 RBW 2	2-DH5 24 MHz Mode A	Auto Sweep		2,4021	4.77 dBm 4940 GH2





	2.39 dB <b>B RBW</b> 2 MHz 1 ms <b>B VBW</b> 2 MHz	Mode Auto Sweep		
		M1[1]	a	4,29 dBm 2,44109740 GHz
10 dBm		M1	1	
D dBm		and and a second second		
-10 dBm				~
20 dBm				and the second
1				
-30 dBm				
-40 dBm				
-50 dBm				
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-70 dBm				
				Owner C T MILLS
PC Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT	DWER NVNT 2-D 2.42 dB • RBW 2 MHz 1 ms • YBW 2 MHz	The second second		Span 6.5 MHz
Spectrum Ref Level 20.00 dBm Offset 2	DWER NVNT 2-D	H5 2480MHz A Mode Auto Sweep		<b>**</b>
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A		
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm-	DWER NVNT 2-D	H5 2480MHz A Mode Auto Sweep		4,39 dBm
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm-	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm- 0 dBm-	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm -10 dBm	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
Pc Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -10 dBm -30 dBm	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
PC Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -30 dBm -40 dBm	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
PC Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -30 dBm -30 dBm -50 dBm	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
PC Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -30 dBm -40 dBm	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
PC Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -30 dBm -30 dBm -50 dBm	DWER NVNT 2-D 2.42 dB RBW 2 MHz 1 ms VBW 2 MHz	H5 2480MHz A Mode Auto Sweep		4,39 dBm
PC Spectrum Ref Level 20.00 dBm Offset 2 Att 35 dB SWT SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -10 dBm -30 dBm -50 dBm -60 dBm	DWER NVNT 2-D	H5 2480MHz A Mode Auto Sweep		4,39 dBm





Spectrun Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB		.38 dB 🍙 RE 1 ms 🖷 VI		<b>Mode</b> Auto Sw	/еер			(5
• 1PK Max			1		M1[1]			-	5.09 dBr
10 dBm	c			M1			_	2.40	192860 GH
D dDes						namena			p =
0 dBm	-	- A CONTRACTOR OF CONTRACT							
and a company									
20 dBm		-						-	
-30 dBm							-		
-40 dBm							_		
-50 dBm									
-11100 00-									
-60 dBm				-					
-70 dBm	-		-						
	12								
CF 2.402 C	Hz			1001 p	ots	_		Sp	an 6.5 MHz
	20.00 dBm	Offset 2	.39 dB 🐞 RE	3W 2 MHz	5 2441MI		:1		(
	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	3W 2 MHz	Mode Auto Sw	/еер	.1		
Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	3W 2 MHz		/еер	.1	2.44	4,71 dBr
Ref Level Att SGL Count	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	3W 2 MHz	Mode Auto Sw	/еер	1	2.44	4,71 dBr
Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2.44	4,71 dBr
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 1	Mode Auto Sw	/еер	1	2.44	4,71 dBr
Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2.44	4.71 dBr
Ref Level Att SGL Count 1Pk Max 10 dBm- 0 dBm- -10 dBm-	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2,44	4,71 dBr
Ref Level Att SGL Count IO dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2,44	4,71 dBr
Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm-	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2,44	4,71 dBr
Ref Level Att SGL Count IO dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2,44	4,71 dBr
Ref Level Att SGL Count O dBm 0 dBm -10 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 1	Mode Auto Sw	/еер	1	2.44	4,71 dBr
Ref Level Att SGL Count SGL Count 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -50 dBm	20.00 dBm 35 dB	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер	1	2.44	4,71 dBr
Ref Level Att        SGL Count        SGL Count        10 dBm        10 dBm        -10 dBm        -10 dBm        -30 dBm        -40 dBm        -50 dBm        -60 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 🐞 RE	3W 2 MHz 2 MHz MHz M1	Mode Auto Sw	/еер	1		4.71 dBr
Ref Level Att        SGL Count        1Pk Max        10 dBm        0 dBm        -10 dBm        -30 dBm        -40 dBm        -50 dBm        -60 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 🐞 RE	BW 2 MHz BW 2 MHz 1	Mode Auto Sw	/еер		Sp	4.71 dBr
Ref Level Att        SGL Count        SGL Count        10 dBm        10 dBm        -10 dBm        -10 dBm        -30 dBm        -40 dBm        -50 dBm        -60 dBm	20.00 dBm 35 dB 100/100	Offset 2	.39 dB 🐞 RE	3W 2 MHz 2 MHz MHz M1	Mode Auto Sw	/еер	1	Sp	4,71 dBr



# Certificate #4298.01

Spectrum		E
Ref Level 20.00 dBm Offset 2.42	dB <b>BRBW</b> 2 MHz ms <b>VBW</b> 2 MHz <b>Mode</b> Auto Swee;	
1Pk Max		
	M1[1]	4,74 dBm 2,48003250 GHz
10 dBm	N11	
D dBm		numero management
-10 dBm		
Sand and a start of the start o		
20 dBm-		
-30 dBm		
-40 dBm		
-50 dBm-		
-60 dBm		
-70 dBm		
	1001 mbr	Span 6.5 MHz
CF 2.48 GHz	1001 pts	opan 6.5 MHz





### 8.3 -20DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.95	Pass
NVNT	1-DH5	2441	Ant1	0.942	Pass
NVNT	1-DH5	2480	Ant1	0.95	Pass
NVNT	2-DH5	2402	Ant1	1.334	Pass
NVNT	2-DH5	2441	Ant1	1.336	Pass
NVNT	2-DH5	2480	Ant1	1.338	Pass
NVNT	3-DH5	2402	Ant1	1.298	Pass
NVNT	3-DH5	2441	Ant1	1.284	Pass
NVNT	3-DH5	2480	Ant1	1.292	Pass

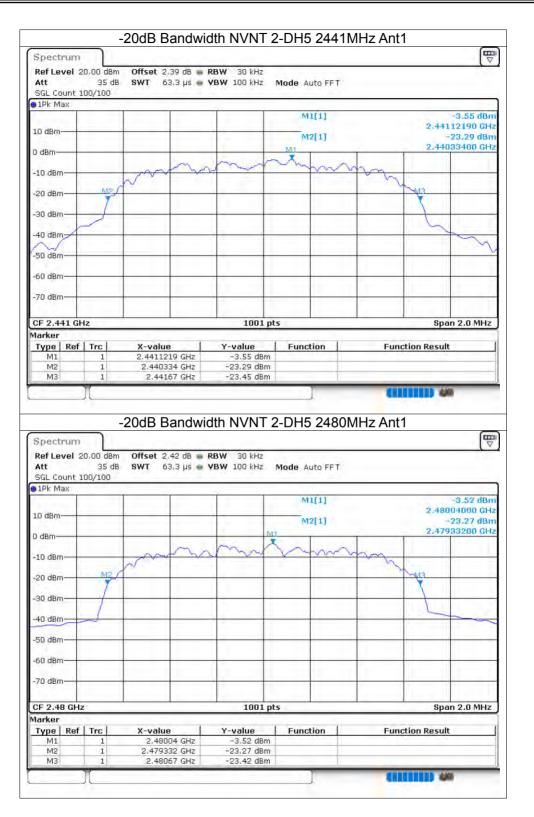




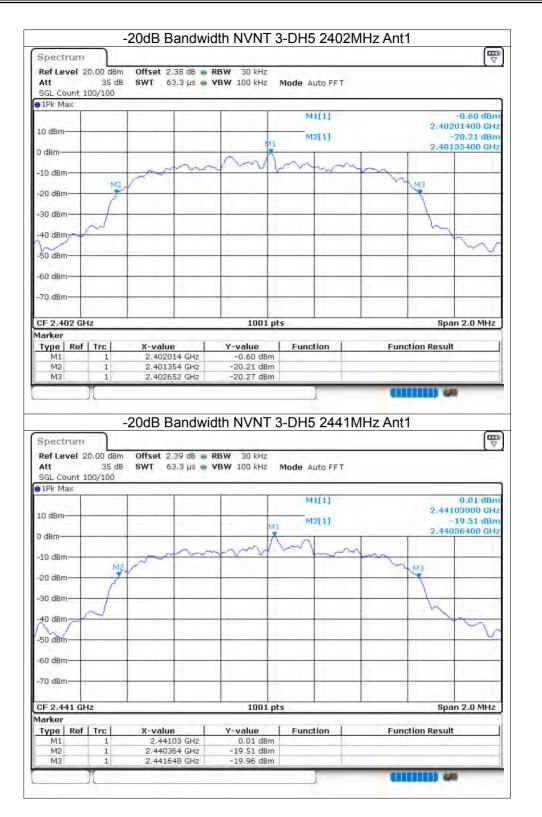






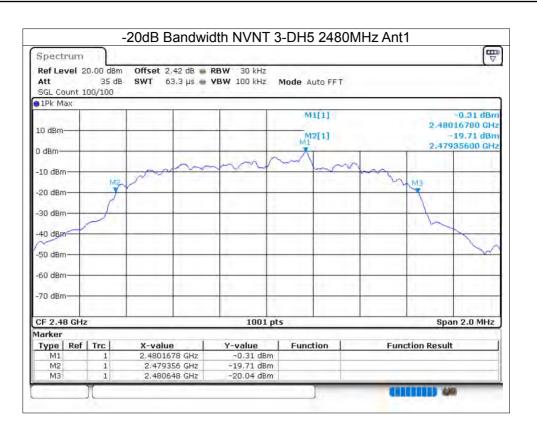








#### Report No.: S23082106601001



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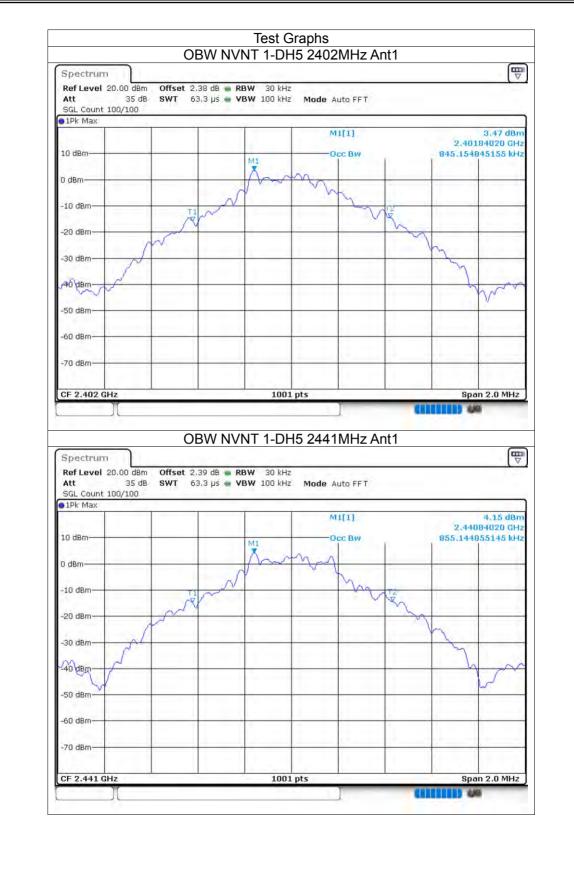


### 8.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.845
NVNT	1-DH5	2441	Ant1	0.855
NVNT	1-DH5	2480	Ant1	0.883
NVNT	2-DH5	2402	Ant1	1.197
NVNT	2-DH5	2441	Ant1	1.193
NVNT	2-DH5	2480	Ant1	1.193
NVNT	3-DH5	2402	Ant1	1.179
NVNT	3-DH5	2441	Ant1	1.197
NVNT	3-DH5	2480	Ant1	1.199











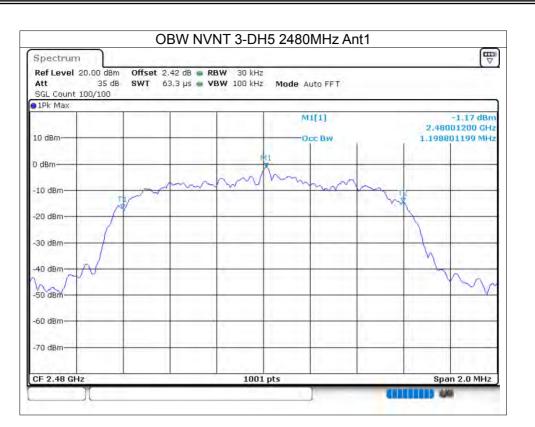












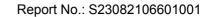




### 8.5 **CARRIER FREQUENCIES SEPARATION**

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.838	2402.838	1	0.633	Pass
NVNT	1-DH5	Ant1	2440.84	2441.84	1	0.628	Pass
NVNT	1-DH5	Ant1	2478.838	2479.84	1.002	0.633	Pass
NVNT	2-DH5	Ant1	2402.03	2403.022	0.992	0.889	Pass
NVNT	2-DH5	Ant1	2441.078	2442.087	1.009	0.891	Pass
NVNT	2-DH5	Ant1	2479.013	2480.015	1.002	0.892	Pass
NVNT	3-DH5	Ant1	2402.166	2403.166	1	0.865	Pass
NVNT	3-DH5	Ant1	2440.911	2441.979	1.068	0.856	Pass
NVNT	3-DH5	Ant1	2479.028	2480.03	1.002	0.861	Pass







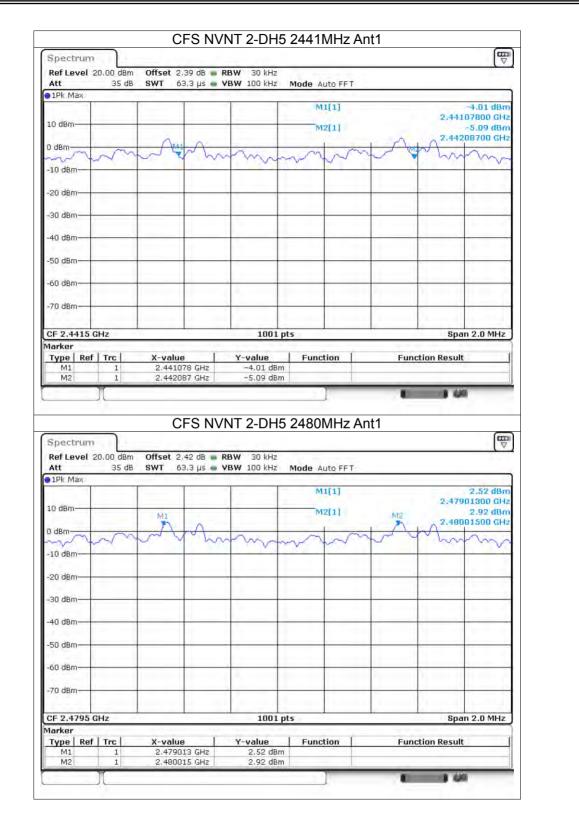
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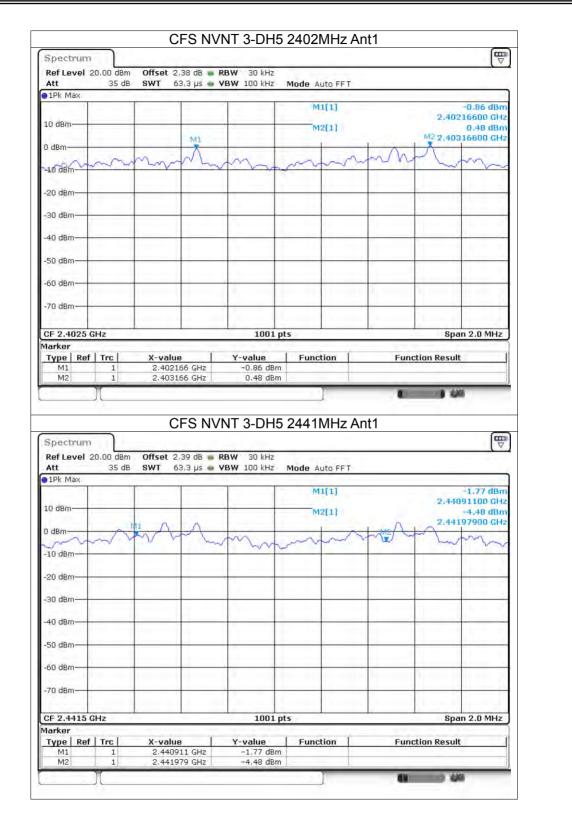




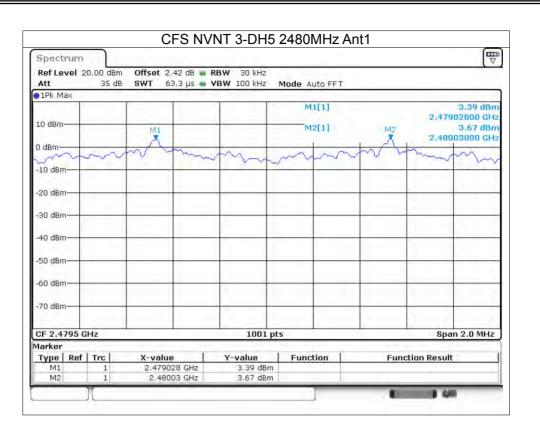














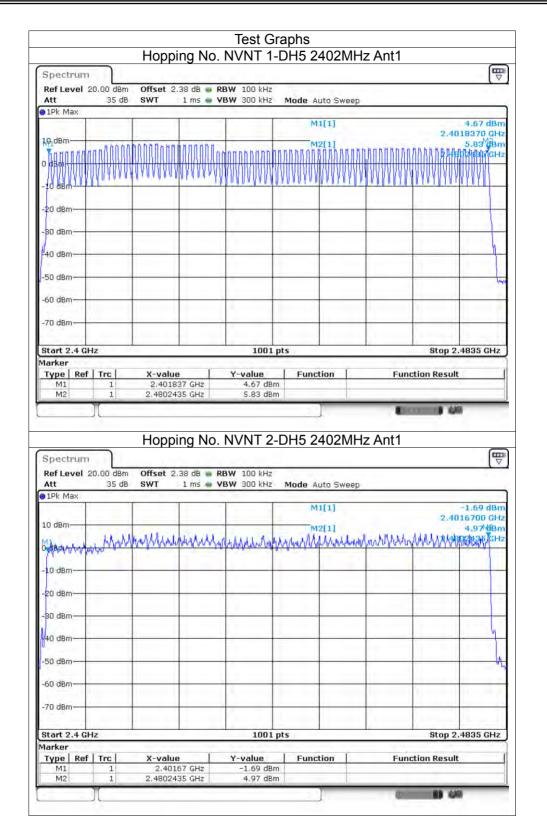


### 8.6 NUMBER OF HOPPING CHANNEL

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









Ref Level      20.00 dBm      Offset      2.38 dB      RBW      100 kHz        Att      35 dB      SWT      1 ms      VBW 300 kHz      Mode      Auto Sweep        10 dBm	Spectrum			Ŭ					E
Att      35 dB      SWT      1 ms      VBW      300 kHz      Mode Auto Sweep        10 dBm				_					
1Pk Max	Ref Level 2								
MI[1]  -0.47 dBm    0 dBm  M2[1]    1.0 dBm  M2[1]    1.9 dBm  1.9 dBm    10 dBm  M2[1]    10 dBm  1.9 dBm    10 dBm  1.9 dBm    10 dBm  1.9 dBm    20 dBm  1.9 dBm    30 dBm  1.9 dBm    30 dBm  1.9 dBm    10 dBm  <		35	dB SWT	1 ms 🖷	VBW 300 kHz	Mode Auto Sw	еер		
0 dBm  2.4016700 GHz    1.90 dBm  1.90 dBm    10 dBm  1.90 dBm    20 dBm  1.90 dBm    20 dBm  1.90 dBm    30 dBm  1.90 dBm    30 dBm  1.90 dBm    10 dBm  1.90 dBm    20 dBm  1.90 dBm    20 dBm  1.90 dBm    30 dBm  1.90 dBm    30 dBm  1.90 dBm    10 dBm  1.90 dBm	1Pk Max								
10 dBm  M2[1]  1.90 dBm    10 dBm  10 dBm  10 dBm  10 dBm    20 dBm  10 dBm  10 dBm  10 dBm    30 dBm  10 dBm  10 dBm  10 dBm    30 dBm  10 dBm  10 dBm  10 dBm    40 dBm  10 dBm  10 dBm  10 dBm    50 dBm  10 dBm  10 dBm  10 dBm    70 dBm  10 dBm  10 dBm  10 dBm    70 dBm  10 dBm  10 dBm  10 dBm					· · · · · · · · ·	M1[1]			0.47 dBm
Number  Number  Number    10 dBm  10 dBm    20 dBm  10 dBm    30 dBm  10 dBm    30 dBm  10 dBm    40 dBm  10 dBm    50 dBm  10 dBm    70 dBm  10 dBm    70 dBm  10 dBm    101 pts  Stop 2.4835 GHz    Stop 2.4835 GHz    MI 1 2.40167 GHz0.47 dBm	in down							2.401	6700 GHz
10 dBm  10 dBm    20 dBm  10 dBm    30 dBm  10 dBm    30 dBm  10 dBm    50 dBm  10 dBm    50 dBm  10 dBm    50 dBm  100 pts    Start 2.4 GHz  1001 pts    Stop 2.4835 GHz    Type Ref Trc X-value Y-value Function Result    M1  1		-	1. 57	144		M2[1]	and the stand		1.90,dBm
10 dBm  10 dBm    20 dBm  10 dBm    30 dBm  10 dBm    30 dBm  10 dBm    50 dBm  10 dBm    50 dBm  10 dBm    50 dBm  100 pts    Start 2.4 GHz  1001 pts    Stop 2.4835 GHz    Type Ref Trc X-value Y-value Function Result    M1  1	13	. 1 hald	Annaharman	Address	Apple black burger	ad Manual And	h da Analik Anal da	LAAAAAA BABB	184 GHz
20 dBm  30 dBm  30 dBm  40 dBm <td>ALTHOUGH AND AND AND AND AND AND AND AND AND AND</td> <td>My me</td> <td>1.0.0.0.0.0</td> <td></td> <td>chillitation and a state</td> <td>AAAT-MAA AN</td> <td>Y 10 10 0 0 - 0 - 0</td> <td>Alter Ink</td> <td></td>	ALTHOUGH AND	My me	1.0.0.0.0.0		chillitation and a state	AAAT-MAA AN	Y 10 10 0 0 - 0 - 0	Alter Ink	
20 dBm  30 dBm  30 dBm  40 dBm <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
30 dBm  30 dBm    40 dBm  40 dBm    50 dBm  50 dBm    50 dBm  50 dBm    60 dBm  100 pts    70 dBm  100 pts    Stop 2,4835 GHz    Janker    Type    Ref  Trc    X-value  Y-value    Function Result    M1  1    2,40167 GHz  -0,47 dBm	10 dBm								
30 dBm  30 dBm    40 dBm  40 dBm    50 dBm  50 dBm    50 dBm  50 dBm    60 dBm  100 pts    70 dBm  100 pts    Stop 2,4835 GHz    Janker    Type    Ref  Trc    X-value  Y-value    Function Result    M1  1    2,40167 GHz  -0,47 dBm									
40 dBm 50 dBm 60 dBm 70 dBm	20 dBm		-		-				
40 dBm 50 dBm 60 dBm 70 dBm	had been a								
50 dBm      50 dBm      60 dBm<	30 dBm				-				
50 dBm      50 dBm      60 dBm<									M
60 dBm      70 dBm      1001 pts      Stop 2,4835 GHz        Start 2.4 GHz      1001 pts      Stop 2,4835 GHz        larker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0,47 dBm      Function      Function Result	40 dBm		- 90 1						
60 dBm      70 dBm      1001 pts      Stop 2,4835 GHz        Start 2.4 GHz      1001 pts      Stop 2,4835 GHz        larker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0,47 dBm      Function      Function Result					1.1.1.1.1.1.1			1. 1	1.1.1
60 dBm      70 dBm      1001 pts      Stop 2,4835 GHz        Start 2.4 GHz      1001 pts      Stop 2,4835 GHz        larker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0,47 dBm      Function      Function Result	50 dBm								
TO dBm      1001 pts      Stop 2.4835 GHz        istart 2.4 GHz      1001 pts      Stop 2.4835 GHz        iarker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm      Function      Function      Function	So abili							1	14
TO dBm      1001 pts      Stop 2.4835 GHz        istart 2.4 GHz      1001 pts      Stop 2.4835 GHz        iarker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm      Function      Function      Function	co dom	-							
Start 2.4 GHz      1001 pts      Stop 2.4835 GHz        larker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm      Function      Function									1.000
Start 2.4 GHz      1001 pts      Stop 2.4835 GHz        larker      Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm	de la composition de la compos								
Intervalue        Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm	-70 dBm								· · · · · · · · · · · · · · · · · · ·
Intervalue        Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm	-								1
Narker        Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm	Start 2.4 GH	lz			1001 p	s		Stop 2.4	835 GHz
Type      Ref      Trc      X-value      Y-value      Function      Function Result        M1      1      2.40167 GHz      -0.47 dBm	larkor								
M1 1 2.40167 GHz -0.47 dBm		I Tec I	V-value	1	V-ualuo	Eunction	Eur	ction Pocult	1
						runction	Fun	ccion Kesult	
M2 1 2.480494 GHz 1.90 dBm	M2	1			1.90 dBm				

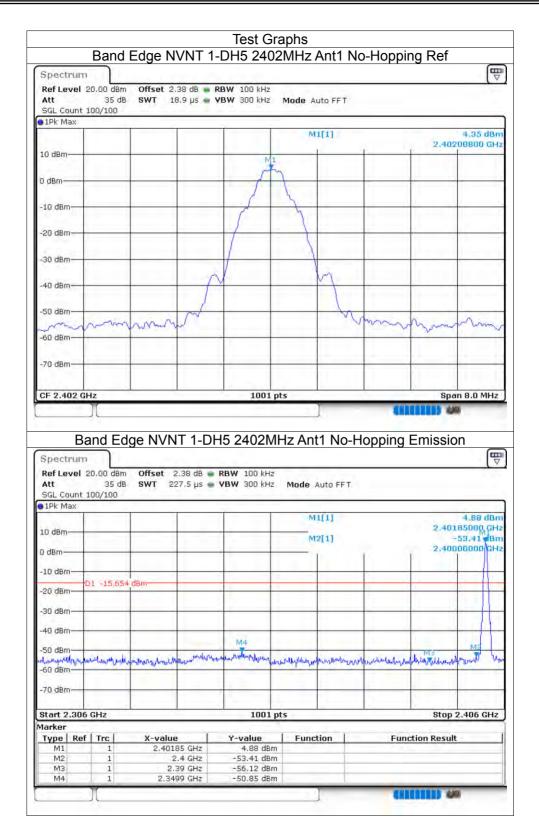




### 8.7 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.2	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.93	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.41	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.86	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.93	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.01	-20	Pass







Att	20.00 dBm 35 dB			<b>BW</b> 100 kHz <b>'BW</b> 300 kHz	Mode A	uto FFT			U N
SGL Count 1Pk Max	100/100	-			_				
TLE MON	-			T T	M	1[1]		-	5,40 dBn
							- D	2.480	100800 GH
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) dBm					η				
o ubin				1					
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									1
20 dBm-	-	-		1			-	-	
30 dBm		-							
ia nort					1	M			
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70 dBm-		-		-	-		-		-
			1		F	11			1.000
CF 2.48 GI				1001 p	ate			- Cna	n 8.0 MHz
Spectrur	Cand Ed			15 2480M	IHz Ant	] :1 No-H	opping l	Emissic	
Spectrur	Cand Ed	Offset 2	2.42 dB 🍙		IHz Ant			Emissic	
Spectrun Ref Level Att SGL Count	and Ed	Offset 2	2.42 dB 🍙	15 2480M RBW 100 kHz	IHz Ant			Emissic	
Spectrur Ref Level Att	and Ed	Offset 2	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant	Auto FFT		Emissic	E ▼
Spectrun Ref Level Att SGL Count 1Pk Max	and Ed	Offset 2	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH:
Spectrun Ref Level Att SGL Count 1Pk Max	and Ed	Offset 2	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT		2.480	5.68 dBn 15000 GH 54.49 dBn
Spectrun Ref Level Att SGL Count 1Pk Max	and Ed	Offset 2	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH:
Spectrun Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH 54.49 dBn
Spectrun Ref Level Att SGL Count IPk Max ID(dBm	and Ed	Offset 2 SWT 22	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH 54.49 dBn
Spectrun Att SGL Count 1Pk Max 1Pk Max 10dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH 54.49 dBn
Spectrun Ref Level Att SGL Count IPk Max ID(dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH 54.49 dBn
Spectrun Att SGL Count 1Pk Max 1Pk Max 10dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 🍙	15 2480M RBW 100 kHz	Hz Ant Mode 4	Auto FFT.		2.480	5.68 dBn 15000 GH 54.49 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm- 20 dBm- 20 dBm- 30 dBm- 40 dBm- M4	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 27.5 µs 27.5 µs	15 2480M	Mode / M	Auto FFT.		2.480	5.68 dBn 115000 GH: 54.49 dBn 50000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 20 dBm 30 dBm 30 dBm 40 dBm	20.00 dBm 35 dB 100/100	dBm	2.42 dB 27.5 µs 27.5 µs	15 2480M RBW 100 kHz	Mode / M	Auto FFT.		2.480	5.68 dBn 115000 GH: 54.49 dBn 50000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm- 20 dBm- 20 dBm- 30 dBm- 40 dBm- M4	Dand Ed	Offset 2 SWT 22 dBm	2.42 dB 27.5 µs 27.5 µs	15 2480M	Mode / M	Auto FFT.		2.480	5.68 dBn 115000 GH: 54.49 dBn 50000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 1Pk Max 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm 50 dBm	Dand Ed	Offset 2 SWT 22 dBm	2.42 dB 27.5 µs 27.5 µs	15 2480M	Mode / M	Auto FFT.		2.480	5.68 dBn 115000 GH: 54.49 dBn 50000 GH:
Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm- 20 dBm- 20 dBm- 30 dBm- 40 dBm- 50 dBm- 5	Dand Ed	Offset 2 SWT 22 dBm	2.42 dB 27.5 µs 27.5 µs	15 2480M	Mode / M	Auto FFT.		2.480	5.68 dBn 115000 GH: 54.49 dBn 50000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm 70 dBm 70 dBm 51 dBm 70 dBm 70 dBm 51 dBm 70 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.42 dB 27.5 µs 27.5 µs	15 2480M	Made / Made / M	Auto FFT.		2.480 2.483	5.68 dBn 115000 GH: 54.49 dBn 50000 GH:
Spectrum        Ref Level        Att        SGL Count        1Pk Max        1Pk Max        10 dBm        20 dBm        30 dBm        40 dBm        50 dBm        50 dBm        70 dBm        70 dBm        310 dBm	Cand Ed n 20.00 dBm 35 dB 100/100 -01 -14.597	Offset 2 SWT 22	2.42 dB 27.5 μs	15 2480M	Mode / Mode / M M	Auto FFT. 1[1] 2[1]	Manperme	2.480 2.483 1400 1400 1400 1400 1400 1400 1400 140	5.68 dBn 115000 GH: 54.49 dBn 50000 GH: 54.49 dBn 50000 GH: 2.576 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm 70 dBm 70 dBm 51 dBm 70 dBm 70 dBm 51 dBm 70 dBm	Sand Ed n 20.00 dBm 35 dB 100/100 101 -14.597 Mm/Juluiy-hytys 6 GHz of Trc	Offset 2 SWT 22 dBm Ma Ma Ma Ma Ma X-value	2.42 dB 27.5 μs	15 2480M	Mode / Mode / M M M	Auto FFT. 1[1] 2[1]	Manperme	2.480 2.483	5.68 dBn 115000 GH: 54.49 dBn 50000 GH: 54.49 dBn 50000 GH: 2.576 GHz
Spectrum        Ref Level        Att        SGL Count        1Pk Max        1DdBm        20 dBm        30 dBm        70 dBm        70 dBm        Start 2.47        Type   Re        M1        M2	Cand Ed	Offset 2 SWT 22 dBm Ma Ma Ma Ma Ma S X-value 2.480 2.480	2.42 dB 27.5 μs	15 2480M	Made / Made / M M M M M M M M M M M M M M M M M M M	Auto FFT. 1[1] 2[1]	Manperme	2.480 2.483 1400 1400 1400 1400 1400 1400 1400 140	5.68 dBn 115000 GH: 54.49 dBn 50000 GH: 54.49 dBn 50000 GH: 2.576 GHz
Spectrum        Ref Level        Att        SGL Count        IPK Max        IDdBm        10 dBm        20 dBm        30 dBm        <	Band Ed n 20.00 dBm 35 dB 100/100 	Offset 2 SWT 22 dBm dBm Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma Ma	2.42 dB 27.5 μs	15 2480M	Mode / Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT. 1[1] 2[1]	Manperme	2.480 2.483 1400 1400 1400 1400 1400 1400 1400 140	5.68 dBn 115000 GH: 54.49 dBn 50000 GH: 54.49 dBn 50000 GH: 2.576 GHz



Spectrur Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB			BW 100 kHz BW 300 kHz	Mode A		o-Hoppir		  ⊽
					M	1(1)	46-10	2,402	2.54 dBn 16780 GH
10 dBm					M1				
0 dBm				m	My		-		
-10 dBm—					1	-			
-20 dBm									
-30 dBm									
-40 dBm—			m			mor			
-50 dBm	har	mont					how	hm	mm
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101 m									
E	Sand Ed				1Hz An	] t1 No-ł	Hopping		n 8.0 MHz DN
E Spectrur Ref Level Att	Band Ed	Offset 2	2.38 dB 📦 F		1Hz An		Hopping		on
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E Spectrur Ref Level Att SGL Count JPk Max	Band Ed	Offset 2	2.38 dB 📦 F	5 2402N	1Hz An 2 Mode M	Auto FFT.	Hopping	Emissio	on
E Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm-	Band Ed	Offset 2	2.38 dB 📦 F	5 2402N	1Hz An 2 Mode M	Auto FFT	Hopping	Emissio	0.25 dBn 0.25 dBn 05000 GH: 53.02,4Bn
E Spectrur Ref Level Att SGL Count ID Max 10 dBm	Band Ed	Offset 2	2.38 dB 📦 F	5 2402N	1Hz An 2 Mode M	Auto FFT.	Hopping	Emissio	0000000 GH2
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E Spectrur Ref Level Att SGL Couni 1Pk Max 10 dBm	Band Ed	Offset 2 SWT 22	2.38 dB 📦 F	5 2402N	1Hz An 2 Mode M	Auto FFT.	Hopping	Emissio	0.25 dBn 0.25 dBn 0.5500 GH: 53.02,4Bn
E Spectrur Ref Level Att SGL Couni 1Pk Max 10 dBm	Band Ed n 20.00 dBm 35 dB : 100/100	Offset 2 SWT 22	2.38 dB 📦 F	5 2402N	1Hz An 2 Mode M	Auto FFT.	Hopping	Emissio	0.25 dBn 0.25 dBn 0.5500 GH: 53.02,4Bn
E Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	Band Ed n 20.00 dBm 35 dB : 100/100	Offset 2 SWT 22	2.38 dB 📦 F	15 2402N RBW 100 kHz YBW 300 kHz	1Hz An 2 Mode M	Auto FFT.	Hopping	Emissio	0.25 dBn 0.25 dBn 0.5500 GH: 53.02,4Bn
E Spectrur Ref Level Att SGL Count ID dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	Band Ed n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB <b>F</b> 7.5 μs <b>S</b>	15 2402N RBW 100 kHz YBW 300 kHz 100	1Hz An	Auto FFT.		Emissio	0.25 dBn 0.25 dBn 05000 GH: 53.02 dBn 06000 GH:
E Spectrur Ref Level Att SGL Count 10 dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -50 dBm- -50 dBm- -50 dBm-	Band Ed n 20.00 dBm 35 dB : 100/100	Offset 2 SWT 22	2.38 dB <b>F</b> 7.5 μs <b>S</b>	15 2402N RBW 100 kHz YBW 300 kHz 100	1Hz An	Auto FFT.	Hopping	Emissio	0.25 dBn 0.25 dBn 05000 GH: 53.02 dBn 06000 GH:
E Spectrur Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	Band Ed n 20.00 dBm 35 dB 100/100 	Offset 2 SWT 22	2.38 dB <b>F</b> 7.5 μs <b>S</b>	15 2402N RBW 100 kHz YBW 300 kHz M4 Jurmululuenny	1Hz An	Auto FFT.		2.400	0.25 dBn 05000 GH2 53.02, dBn 000000 GH2
Spectrur Ref Level Att SGL Count 1Pk Max 1D dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -40 dBm- -50 dBm- -60 dBm-	Band Ed n 20.00 dBm 35 dB 100/100 	Offset 2 SWT 22	2.38 dB <b>F</b> 7.5 μs <b>S</b>	15 2402N RBW 100 kHz YBW 300 kHz 100	1Hz An	Auto FFT.		2.400	0.25 dBn 0.25 dBn 05000 GH: 53.02 dBn 06000 GH:
E Spectrur Ref Level Att SGL Count ID dBm 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm	Band Ed n 20.00 dBm 35 dB 100/100 -01 -17.464 -01 -17.464 -01 -17.464 -01 -17.464	Offset 2 SWT 22	2.38 dB <b>F</b> 7.5 μs <b>N</b>	15 2402N RBW 100 kHz YBW 300 kHz M4 Jurmululuenny	1Hz An	Auto FF T 1[1] 2[1] 	andwither and the	2.400	0.25 dBm 0.25 dBm 05000 GH: 53.02,dBm 06000 GH: 100000 GH: 100000 GH 10000 GH2



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Spectrun Ref Level	n 20.00 dBm	Offcot 1	42 dP =	RBW 100 kHz					
Att	35 dB			VBW 300 kHz	Mode A	uto FFT			
SGL Count 1Pk Max	100/100				-	-			
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Spectrun	n 20.00 dBm	Offset 2	.42 dB 📦	H5 2480M RBW 100 kHz VBW 300 kHz	2		Hopping	Emissic	
Spectrun Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	.42 dB 📦	RBW 100 kHz	2		Hopping	Emissic	
Spectrun Ref Level Att	n 20.00 dBm 35 dB	Offset 2	.42 dB 📦	RBW 100 kHz	2 2 Mode .		Hopping	Emissic	V
Spectrun Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 35 dB	Offset 2	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	1.10 dBn 005000 GH2
Spectrun Ref Level Att SGL Count 11Pk Max LD dBm	n 20.00 dBm 35 dB	Offset 2	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT	Hopping	2.480	1.10 dBm 005000 GHz -55.43 dBm
Spectrun Ref Level Att SGL Count IPk Max IPk Max ID dBm	n 20.00 dBm 35 dB	Offset 2	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	1.10 dBm 005000 GHz -55.43 dBm
Spectrun Ref Level Att SGL Count 11Pk Max 11Pk Max M1 0 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	1.10 dBn 005000 GH2 -55,43 dBn
Spectrun Ref Level Att SGL Count 11Pk Max 11Pk Max M1 0 dBm	n 20.00 dBm 35 dB	Offset 2 SWT 22	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	₽
Spectrun Ref Level Att SGL Count 1Pk Max LD dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	1.10 dBm 005000 GHz -55.43 dBm
Spectrum Ref Level Att SGL Count 1Pk Max ID dBm 10 dBm 20 dBm 30 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	1.10 dBm 005000 GHz -55.43 dBm
Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 📦	RBW 100 kHz	2 2 Mode . M	Auto FFT.	Hopping	2.480	1,10 dBm 005000 GHz 55,43 dBm 850000 GHz
Spectrum Ref Level Att SGL Count 1Pk Max ID dBm 10 dBm 20 dBm 30 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB	RBW 100 kHz	2 Mode . M	Auto FF T 1[1] 2[1]		2.480	1,10 dBm 005000 GHz 55,43 dBm 850000 GHz
Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB	RBW 100 kHz YBW 300 kHz	2 Mode . M	Auto FF T 1[1] 2[1]		2.480	1,10 dBm 005000 GHz 55,43 dBm 850000 GHz
Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB	RBW 100 kHz YBW 300 kHz	2 Mode . M	Auto FF T 1[1] 2[1]		2.480	1,10 dBm 005000 GHz 55,43 dBm 850000 GHz
Spectrum        Ref Level        Att        SGL Count        11Pk Max        10 dBm        10 dBm        20 dBm        30 dBm        40 dBm        50 dBm        40 dBm        50 dBm        60 dBm	20.00 dBm 35 dB 100/100 201 -18,143 74	Offset 2 SWT 22	2.42 dB	RBW 100 kHz YBW 300 kHz	2 Mode . M M	Auto FF T 1[1] 2[1]		2.480 2.483	1,10 dBm 005000 GHz 55,43 dBm 850000 GHz
Spectrum        Ref Level        Att        SGL Count        SGL Count        11Pk Max        10 dBm        20 dBm        30 dBm        30 dBm        40 dBm        50 dBm        50 dBm        70 dBm        70 dBm        Start 2.47	0 20.00 dBm 35 dB 100/100 201 -18,143 л4 л4 6 GHz	Offset 2 SWT 22	2.42 dB	RBW 100 kHz VBW 300 kHz	2 Mode . M M M	Auto FF T. 1[1] 2[1]	ally sources	2.480 2.483 	1,10 dBm 005000 GH2 55,43 dBm 850000 GH2
Spectrum        Ref Level        Att        SGL Count        1Pk Max        10 dBm        10 dBm        20 dBm        30 dBm        40 dBm        50 dBm        50 dBm        70 dBm        70 dBm        31 dBm        70 dBm	20.00 dBm 35 dB 100/100 201 -18.143 74 74 6 GHz f   Trc	Offset 2 SWT 22	2.42 dB 7.5 μs	RBW 100 kHz YBW 300 kHz	2 Mode M M Lutherton Lutherton Jun pts Func	Auto FF T. 1[1] 2[1]	ally sources	2.480 2.483	1,10 dBm 005000 GH2 55,43 dBm 850000 GH2
Spectrum        Ref Level        Att        SGL Count        SGL Count        11Pk Max        10 dBm        20 dBm        30 dBm        30 dBm        40 dBm        50 dBm        50 dBm        70 dBm        70 dBm        Start 2.47	0 20.00 dBm 35 dB 100/100 201 -18,143 л4 л4 6 GHz	Offset 2 SWT 22 dBm adBm who who who who who who who who who who	2.42 dB 7.5 μs	RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 k	2 Mode M M M M M M M M M M M N N N	Auto FF T. 1[1] 2[1]	ally sources	2.480 2.483 	1,10 dBm 005000 GH2 55,43 dBm 850000 GH2
Spectrum        Ref Level        Att        SGL Count        11Pk Max        10 dBm        20 dBm        20 dBm        30 dBm        30 dBm        40 dBm        50 dBm        50 dBm        70 dBm        70 dBm        31 dBm        70 dBm        70 dBm        31 dBm        70 dBm        71 dBm        81 datt        70 dBm	100/100 20.00 dBm 35 dB 100/100 201 -18,143 44 44 6 GHz f Trc 1 1 1	Offset 2 SWT 22 d8m d8m MO MO X-value 2.48000 2.48000 2.48000 2.48000 2.48000 2.48000000000000000000000000000000000000	2.42 dB 7.5 μs	RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz	2 Mode M M M M M M M M M M M	Auto FF T. 1[1] 2[1]	ally sources	2.480 2.483 	1,10 dBm 005000 GH2 55,43 dBm 850000 GH2
Spectrum        Ref Level        Att        SGL Count        SGL Count        11PK Max        10 dBm        20 dBm        30 dBm	20.00 dBm 35 dB 100/100 201 -18.142 44 44 6 GHz 6 GHz 6 I Trc 1	Offset 2 SWT 22 d8m d8m MO MO X-value 2.48000 2.48000 2.48000 2.48000 2.48000 2.48000000000000000000000000000000000000	2.42 dB 7.5 μs	RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 k	2 Mode M M M M M M M M M M M	Auto FF T. 1[1] 2[1]	ally sources	2.480 2.483 	1,10 dBm 005000 GHz 55,43 dBm 850000 GHz



Spectrur			VNT 3-					0	
Ref Level Att	20.00 dBm 35 dB			BW 100 kHz BW 300 kHz	Mode A	uto FFT			
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		ge NVN	IT 3-DH	15 2402N		] t1 No-H	opping I	<b>11110</b>	
Spectrur Ref Level	n 20.00 dBm	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant		opping I	<b>11110</b>	
Spectrur Ref Level Att	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	I5 2402N	1Hz Ant		opping I	<b>11110</b>	'n
Spectrur Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant		opping I	<b>11110</b>	'n
Spectrur Ref Level Att SGL Count	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant		opping I	Emissio	n (₩ 1.25 dBn
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping I	Emissio	I.25 dBm 1.25 dBm 15000 GHz
Spectrur Ref Level Att SGL Count 1Pk Max	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT	opping I	Emissio	n (₩ 1.25 dBn
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping E	Emissio	1.25 dBm 15000 GH2 52.20 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping I	Emissio	1.25 dBm 15000 GH2 52.20 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB	Offset 2 SWT 22	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping I	Emissio	1.25 dBm 15000 GH2 52.20 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 1Pk Max 10 dBm	n 20.00 dBm 35 dB : 100/100	Offset 2 SWT 22	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping E	Emissio	1.25 dBm 15000 GH2 52.20 dBm
Spectrur 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	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping E	Emissio	1.25 dBm 15000 GH2 52.20 dBm
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB : 100/100	Offset 2 SWT 22	2.38 dB 📦 I	15 2402N	1Hz Ant Mode	Auto FFT.	opping E	Emissio	1.25 dBm 15000 GHz 52.20 dBm 00000 GHz
Spectrur Ref Level Att SGL Count 10 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB 😦 I 27.5 µs 🖷 '	I5 2402N RBW 100 kHz 900 kHz	1Hz Ant	Auto FFT.		2.402	I.25 dBm 1.25 dBm 15000 GHz 52.20 dBm 06000 GHz
Spectrur        Ref Level        Att        SGL Count        1Pk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm        -50 dBm	n 20.00 dBm 35 dB : 100/100	Offset 2 SWT 22	2.38 dB 📦 I	I5 2402N RBW 100 kHz 900 kHz	1Hz Ant	Auto FFT.		2.402	I.25 dBm 1.25 dBm 15000 GHz 52.20 dBm 06000 GHz
Spectrur        Ref Level        Att        SGL Count        10 dBm        10 dBm        -10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -50 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB 😦 I 27.5 µs 🖷 '	I5 2402N RBW 100 kHz 900 kHz	1Hz Ant	Auto FFT.		2.402	I.25 dBm 1.25 dBm 15000 GHz 52.20 dBm 06000 GHz
Spectrur        Ref Level        Att        SGL Count        10 dBm        10 dBm        -10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -50 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB 😦 I 27.5 µs 🖷 '	I5 2402N RBW 100 kHz 900 kHz	1Hz Ant	Auto FFT.		2.402	I.25 dBm 1.25 dBm 15000 GHz 52.20 dBm 06000 GHz
Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB 😦 I 27.5 µs 🖷 '	I5 2402N RBW 100 kHz 900 kHz	Mode / Mode / M	Auto FFT.		2.402 2.400	I.25 dBm 1.25 dBm 15000 GHz 52.20 dBm 06000 GHz
Spectrur        Ref Level        Att        SGL Count        1Pk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm        -50 dBm        -70 dBm        -70 dBm        -70 dBm        -50 dBm	n 20.00 dBm 35 dB 100/100 -01 -20,047 -01 -20,047 -01 -20,047 -01 -20,047	Offset 2 SWT 22	2.38 dB 😦 I 27.5 µs 🖷 '	15 2402N RBW 100 kHz VBW 300 kHz M4	Mode / Mode / M	Auto FFT.		2.402 2.400	1.25 dBm 15000 GH2 52.20 dBm 06000 GH2
Spectrur        Ref Level        Att        SGL Count        1Pk Max        10 dBm        0 dBm        -10 dBm        -20 dBm        -30 dBm        -50 dBm        -60 dBm        -50 dBm        -50 dBm        Start 2.30        darker        Type   Re	n 20.00 dBm 35 dB 100/100	Offset 2 SWT 22 dBm	2.38 dB 17.5 μs 1	15 2402N RBW 100 kHz ybw 300 kHz 300 kHz 100	1Hz Ant Mode / M M M	Auto FFT.	tertraphywood	2.402 2.400	1.25 dBm 15000 GH2 52.20 dBm 00800 GH2
Spectrur        Ref Level        Att        SGL Count        1Pk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm        -50 dBm        -50 dBm        -70 dBm        -70 dBm        -70 dBm        -70 dBm	n 20.00 dBm 35 dB 100/100 -01 -20,047 -01 -20,047 -01 -20,047 -01 -20,047	Offset 2 SWT 22 dBm gpmuuvuum x-value 2.402	2.38 dB 27.5 µs	I5 2402M	1Hz Ani Mode / M M M M	Auto FFT.	tertraphywood	2.402 2.400	1.25 dBm 15000 GH2 52.20 dBm 00800 GH2
Spectrur        Ref Level        Att        SGL Count        1Pk Max        10 dBm        -10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -60 dBm        -70 dBm        Start 2.300        Marker	n 20.00 dBm 35 dB 100/100 	Offset 2        SWT 22        dBm        dBm        xymdunum        xymdunum        xymdunum        xymdunum        2,402        2        2	2.38 dB 27.5 μs 27.5	15 2402N RBW 100 kHz VBW 300	1Hz Ant Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT.	tertraphywood	2.402 2.400	1.25 dBm 15000 GH2 52.20 dBm 00800 GH2



Spectrum									[ <del>□</del>
Ref Level : Att SGL Count :	35 dB			<b>BW</b> 100 kHz <b>'BW</b> 300 kHz	Mode A	uto FFT			
1Pk Max	100/100								
					M	1[1]		1.1	1,89 dBm
10 dBm						1		2.480	016780 GHz
LO GEIN				1.1.1	Mi				
D dBm	-		-	m	Ann		-	-	
				1	1				
-10 dBm			-		1		1	1	
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Spectrum	IC and Ed			1001 15 2480N	1Hz An	] t1 No-H	lopping	•	
Ba Spectrum Ref Level 3 Att	and Ed	Offset 2.4	42 dB 📦		1Hz An	] t1 No-F Auto FFT.	lopping	•	on
Ba Spectrum Ref Level 3	and Ed	Offset 2.4	42 dB 📦	15 2480M	1Hz An		lopping	•	on
Ba Spectrum Ref Level 3 Att SGL Count 3	and Ed	Offset 2.4	42 dB 📦	15 2480M	1Hz An Mode		Hopping	Emissic	0N (₩ 1.82 dBn
Ba Spectrum Ref Level 3 Att SGL Count 3	and Ed	Offset 2.4	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	lopping	Emissic	00 .82 dBm 005000 GH2
Ba Spectrum Ref Level 3 Att SGL Count 3 1Pk Max 10 dBm	and Ed	Offset 2.4	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	lopping	Emissic	000 (₩ 1.82 dBm 005000 GHz -56.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count 1Pk Max 10 dBm 10 dBm	and Ed	Offset 2.4	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	lopping	Emissic	000 (₩ 1.82 dBm 005000 GHz -56.12 dBm
Ba Spectrum Ref Level : Att SGL Count : 1Pk Max 10 dBm M1 0 dBm -10 dBm	and Ed	Offset 2. SWT 227	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	lopping	Emissic	000 (₩ 1.82 dBm 005000 GHz -56.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm 10 dBm 10 dBm 20 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	Hopping	Emissic	000 (₩ 1.82 dBm 005000 GHz -56.12 dBm
Ba Spectrum Ref Level : Att SGL Count : 1Pk Max 10 dBm M1 0 dBm -10 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	lopping	Emissic	000 (₩ 1.82 dBm 005000 GHz -56.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm 10 dBm 10 dBm 20 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB 📦	15 2480M	1Hz An Mode	Auto FFT.	lopping	Emissic	000 (₩ 1.82 dBm 005000 GHz -56.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count 3 1Pk Max 10 dBm -10 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB .5 μs .5	15 2480M RBW 100 kHz YBW 300 kHz	1Hz An Mode	Auto FFT.		2.480 2.480	00 1.82 dBm 005000 GH2 -56.12 dBm 56.000 GH2
Ba Spectrum Ref Level : Att SGL Count : 1Pk Max 1D dBm D dBm -10 dBm -10 dBm -30 dBm -30 dBm -30 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB 📦	15 2480M RBW 100 kHz YBW 300 kHz	1Hz An Mode	Auto FFT.		Emissic	00 1.82 dBm 005000 GH2 -56.12 dBm 56.000 GH2
Ba Spectrum Ref Level 3 Att SGL Count 1 IPk Max 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 40 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB .5 μs .5	15 2480M	1Hz An Mode	Auto FFT.		2.480 2.480	00 1.82 dBm 005000 GH2 -56.12 dBm 56.000 GH2
Ba Spectrum Ref Level : Att SGL Count : 1Pk Max 1D dBm D dBm -10 dBm -10 dBm -30 dBm -30 dBm -30 dBm	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB .5 μs .5	15 2480M	1Hz An Mode	Auto FFT.		2.480 2.480	00 1.82 dBm 005000 GH2 -56.12 dBm 56.000 GH2
Ba Spectrum Ref Level 3 Att SGL Count 3 1Pk Max 10 dBm 	20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB .5 μs .5	15 2480M	Mode Mode	Auto FFT.		2.480	00 1.82 dBm 005000 GH2 -56.12 dBm 55.12 dBm -56.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count 3 IPK Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB .5 μs .5		1Hz An	Auto FFT	ug/jhrwyr-dri	Emissic	DN 1.82 dBm 005000 GH2 -56.12 dBm 56.12 dBm 401/2000 GH2 
Ba Spectrum Ref Level 3 Att SGL Count 3 1Pk Max 10 dBm 	and Ed 20.00 dBm 35 dB 100/100	Offset 2. SWT 227	42 dB		1Hz An Mode M س س به س به س س س س س س س س س س س س س س	Auto FFT	ug/jhrwyr-dri	2.480	DN 1.82 dBm 005000 GH2 -56.12 dBm 56.12 dBm 4 -4
Ba Spectrum Ref Level 3 Att SGL Count 3 IPk Max ID dBm -10	20.00 dBm 35 dB 100/100 01 -18,113 ,4// pumpu/h	Offset 2. SWT 227 dBm dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	42 dB .5 μs •	15 2480M	1Hz An Mode M M M M M M M M M M M M M M M M M M M	Auto FFT	ug/jhrwyr-dri	Emissic	DN 1.82 dBm 005000 GH2 -56.12 dBm 56.12 dBm 4 -4
Ba Spectrum Ref Level 3 Att SGL Count 3 IPk Max ID dBm -10 dBm -20 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm Start 2.476 Iarker Type Ref M1	20.00 dBm 35 dB 100/100 01 -18,113 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Offset 2. SWT 227 dBm dBm M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	42 dB .5 μs .5 μs .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	15 2480M	1Hz An Mode M M M M M M M M M M M M M M M M M M M	Auto FFT	ug/jhrwyr-dri	Emissic	DN 1.82 dBm 005000 GH2 -56.12 dBm 56.12 dBm 4 -4

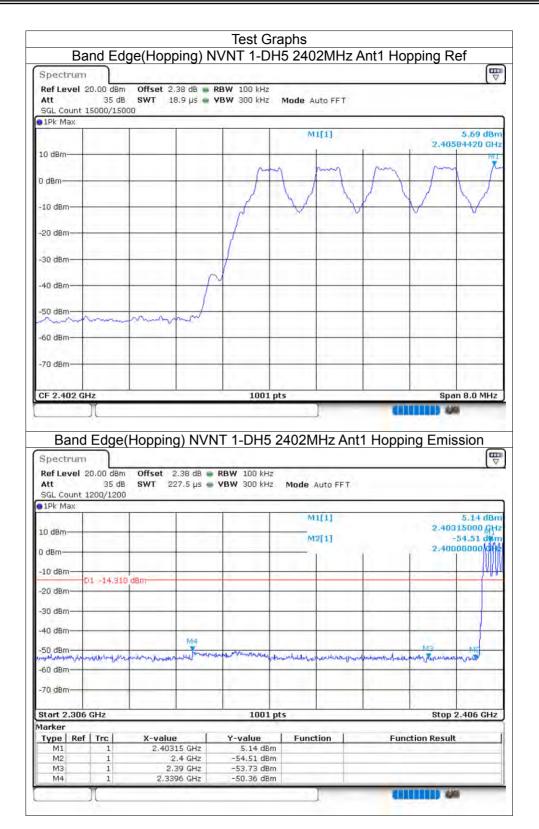


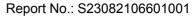


### 8.8 BAND EDGE(HOPPING)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-56.05	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.64	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.18	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.45	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.98	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.27	-20	Pass
	1			11 9			





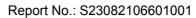




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Spectrum									[
Ref Level 2 Att SGL Count 8	35 d	B SWT 1		RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			
• 1Pk Max		1		1 1	M	1[1]		-	2.85 d
10 dBm						_		2.405	03700 0
						~ ^		MI	
0 dBm				mon	m	Ann	mon	month	m
-10 dBm	_	-		1	_	_			
-20 dBm									
-20 0611									
-30 dBm		-							
-40 dBm		-	/						
			1						
-50 dBm	m	mont							
-60 dBm					_				
-70 dBm						-	-		
				1.1.1.1	10.000	1			
CF 2.402 G		the second se							
	J Edge			1001 p NT 2-DH5 RBW 100 kHz		] IHz Ant	1 Hoppi		sion
Band	20.00 dBi 35 d	m Offset 2 B SWT 2	2.38 dB 🖷	NT 2-DH5	2402N		1 Hoppi		sion
Band Spectrum Ref Level 2 Att	20.00 dBi 35 d	m Offset 2 B SWT 2	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	2402W Mode /	Auto FFT	1 Hoppi		sion (
Band Spectrum Ref Level 2 Att SGL Count :	20.00 dBi 35 d	m Offset 2 B SWT 2	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	24021V Mode /	Auto FFT.	1 Hoppi	ng Emis	sion ( 1.85 d 15000 c
Band Spectrum Ref Level 2 Att SGL Count 2 • 1Pk Max	20.00 dBi 35 d	m Offset 2 B SWT 2	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	24021V Mode /	Auto FFT	1 Hoppi	ng Emis	1.85 d 15000 ( 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 @1Pk Max 10 dBm	20.00 dBi 35 d	m Offset 2 B SWT 2	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	24021V Mode /	Auto FFT.	1 Hoppi	ng Emis	1.85 d 15000 ( 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 • 1Pk Max 10 dBm 0 dBm -10 dBm	20.00 dBi 35 d	m Offset ( B SWT 2: 0	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	24021V Mode /	Auto FFT.	1 Hoppi	ng Emis	1.85 d 15000 ( 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 0 1Pk Max 10 dBm 0 dBm -10 dBm	)[   Edge 20.00 dBi 35 d 1200/120	m Offset ( B SWT 2: 0	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	24021V Mode /	Auto FFT.	1 Hoppi	ng Emis	1.85 d 15000 ( 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2 O dBm 0 dBm -10 dBm -20 dBm	)[   Edge 20.00 dBi 35 d 1200/120	m Offset ( B SWT 2: 0	2.38 dB 🖷	NT 2-DH5 RBW 100 kHz	24021V Mode /	Auto FFT.	1 Hoppi	ng Emis	1.85 d 15000 ( 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	)[   Edge 20.00 dBi 35 d 1200/120	m Offset ( B SWT 2: 0	2.38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Mode / M	Auto FFT.		2.402 2.400	1.85 d 15000 C 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	)[   Edge 20.00 dBi 35 d 1200/120	m Offset : B SWT 2: 0	2.38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Mode / M	Auto FFT.		ng Emis	1.85 d 15000 C 52,10 d
Band Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2	)[ Edge 20.00 dBi 35 d 1200/120	m Offset : B SWT 2: 0	2.38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Mode / M	Auto FFT.		2.402 2.400	1.85 dt 15000 C 52.10 dt
Band Spectrum Ref Level 2 Att SGL Count 2 ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm	)[ Edge 20.00 dBi 35 d 1200/120	m Offset : B SWT 2: 0	2.38 dB	NT 2-DH5 RBW 100 kHz VBW 300 kHz	2402N Made / M	Auto FFT.		2.402 2.400	1.85 d 15000 C 52,104 06000 M
Band Spectrum Ref Level 2 Att SGL Count 1 © 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm	)[ Edge 20.00 dBi 35 d 1200/120	m Offset : B SWT 2: 0	2.38 dB	NT 2-DH5 RBW 100 kHz YBW 300 kHz	2402N Made / M	Auto FFT.		2.402 2.400	1.85 d 15000 C 52.10 d
Band Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2 SGL Count 2 O dBm 0 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -7	)[ Edge 35 d 1200/120 01 -17,19 01 -17,19 01 -17,19 01 -17,19 01 -17,19 01 -17,19	m Offset ; B SWT 2: 0	2.38 dB 27.5 µs	NT 2-DH5 RBW 100 kHz VBW 300 kHz VBW 300 kHz N4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M	2402N Mode / M M M	Auto FFT 1[1] 2[1]		2.402 2.400	1.85 d 15000 C 52.10 d 00000 M M 2.406 G
Band Spectrum Ref Level 2 Att SGL Count 2 9 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 d	Contemporation (Contemporation) (Contemp	m Offset : B SWT 2: 0 52 dBm 52 dBm 53 dBm 54 dBm 54 dBm 54 dBm 55 dBm 56 dBm 5	2.38 dB 27.5 µs	NT 2-DH5 RBW 100 kHz VBW 300 kHz VBW 300 kHz M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	2402N Made / M M M	Auto FFT 1[1] 2[1]		2.402	1.85 d 15000 C 52.10 d 00000 M M 2.406 G
Band Spectrum Ref Level 2 Att SGL Count 2 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 d	CHz	m Offset : B SWT 2: 0 52 dBm x-value 2:402 2: 2:	2.38 dB 27.5 µs	NT 2-DH5 RBW 100 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz VBW 100	2402W	Auto FFT 1[1] 2[1]		2.402	1.85 d 15000 ( 52,104 00000 ( 15000 ( 52,104 00000 ( 15000 ( 1

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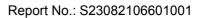


Spectru	and the second second								
Att	l 20.00 dBm 35 dB 1t 8000/8000			RBW 100 kHz VBW 300 kHz		uto FFT			
😑 1Pk Max			1	aî.					
					M	1[1]		2.47	5,58 d
10 dBm	MI						1		-
O'UBM	nh	non	mm	Man	m				
o domo			1	1271-2					
-10 dBm—		-							
			_						
-20 dBm-		-							
-30 dBm-	-				1	~		-	
La con			-		127 21	m			
-40 dBm-				-					-
-50 dBm-	_						han	~	
	_						1 × *	a more	min
-60 dBm-	1		-	1					
-70 dBm-									
-yo ubiii			1.000		1	11			
Section and				1					
Spectru				1001	5 2480N	] 1Hz Ant	1 Hoppir		ssion
Bar Spectru Ref Leve Att	nd Edge(	Offset	2.42 dB 🍙	IT 2-DH	5 2480N		1 Hoppir		ssion
Bar Spectru Ref Leve Att	nd Edge( m 1 20.00 dBm 35 dB at 1200/1200	Offset	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480M	Auto FFT	1 Hoppir		ssion
Bar Spectru Ref Leve Att SGL Cour • 1Pk Max	nd Edge( m 1 20.00 dBm 35 dB at 1200/1200	Offset	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480M		1 Hoppir	ng Emi	ssion ( 5.72 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max	nd Edge( m 1 20.00 dBm 35 dB at 1200/1200	Offset	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480N	Auto FFT	1 Hoppir	ng Emi: 2.48	5.72 d 5.72 d 015000 ( -53.95 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm-	nd Edge( m 1 20.00 dBm 35 dB at 1200/1200	Offset	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480N	Auto FFT.	1 Hoppir	ng Emi: 2.48	5.72 d 5.72 d 015000 ( -53.95 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max	nd Edge( m 1 20.00 dBm 35 dB at 1200/1200	Offset SWT 2	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480N	Auto FFT.	1 Hoppir	ng Emi: 2.48	5.72 d 5.72 d 015000 ( -53.95 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm-	nd Edge( m	Offset SWT 2	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480N	Auto FFT.	1 Hoppir	ng Emi: 2.48	5.72 d 015000 C -53.95 d
Bar Spectru Ref Leve Att SGL Cour 10/dBm- -10 dBm-	nd Edge( m	Offset SWT 2	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480N	Auto FFT.	1 Hoppir	ng Emi: 2.48	ssion
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- -10 dBm- -20 dBm-	nd Edge( m	Offset SWT 2	2.42 dB 🍙	IT 2-DH€ RB₩ 100 kF	5 2480N	Auto FFT.	1 Hoppir	ng Emi: 2.48	5.72 d 5.72 d 015000 ( -53.95 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- -20 dBm- -20 dBm- -30 dBm- -40 dBm-	nd Edge( m	Offset SWT 2 dBm	2.42 dB	IT 2-DH5	5 2480N	Auto FFT		2.480 2.481	5.72 d 5.72 d 015000 c -53.95 d 350000 c
Bar Spectru Ref Leve Att SGL Cour IPk Max 10/dBm- -10 dBm- -20 dBm- -30 dBm- -50 dBm-	nd Edge( m	Offset SWT 2	2.42 dB	IT 2-DH5	5 2480N	Auto FFT.		2.480 2.481	5.72 d 015000 C -53.95 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10/d8m- -20 d8m- -20 d8m- -40 d8m- -50 d8m-	nd Edge( m	Offset SWT 2 dBm	2.42 dB	IT 2-DH5	5 2480N	Auto FFT		2.480 2.481	5.72 d 015000 ( -53.95 d -53.95 d
Bar Spectru Ref Leve Att SGL Cour IPk Max 10/dBm- -10 dBm- -20 dBm- -30 dBm- -50 dBm-	nd Edge( m	Offset SWT 2 dBm	2.42 dB	IT 2-DH5	5 2480N	Auto FFT		2.480 2.481	5.72 d 015000 ( -53.95 d -53.95 d
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10/d8m- -20 d8m- -20 d8m- -40 d8m- -50 d8m-	D1 -14.424	Offset SWT 2 dBm	2.42 dB	IT 2-DH5	5 2480N	Auto FFT		2.480 2.480	5.72 d 015000 d -53.95 d 350000 d
Bar Spectru Ref Leve SGL Cour IPk Max 10 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -50 dBm- -70 dBm- Start 2.4 Marker	nd Edge( m 35 dB 1 20.00 dBm 35 dB 1 1200/1200 D1 -14.424 M4 M4 M4 M4 M4 M4 M4	Offset SWT 2 dBm	2.42 dB = .27.5 µs =	IT 2-DHS RBW 100 kH VBW 300 kH	5 2480N	Auto FFT	product Agreeding	2.48 2.48	5.72 d 015000 -53.95 d 35000 i 2.576 G
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10/dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -70 dBm- -70 dBm-	nd Edge( m 35 dB 1 20.00 dBm 35 dB 1 1200/1200 D1 -14.424 M4 M4 M4 M4 M4 M4 M4	Offset SWT 2 dBm M3 M3 M3 X-valu	2.42 dB = .27.5 µs =	IT 2-DHS RBW 100 kH VBW 300 kH 	5 2480N	Auto FFT	product Agreeding	2.480 2.480	5.72 d 015000 ( -53.95 d 35000 ( 
Bar Spectru Ref Leve Att SGL Cour 1Pk Max 10/d8m -10 d8m -20 d8m -20 d8m -30 d8m -30 d8m -30 d8m -50 d8m -50 d8m -50 d8m -70 d	D1 -14.424	Offset SWT 2 dBm M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	2.42 dB	IT 2-DHS RBW 100 kH VBW 300	5 2480N	Auto FFT	product Agreeding	2.48 2.48	5.72 d 015000 ( 
Bar Spectru Ref Leve Att SGL Cour IPk Max ID/dBm- -20 dBm- -20 dBm- -20 dBm- -30 dBm- -40 dBm- -50 dBm- -60 dBm- -70 dBm- <b>Start 2.4</b> Marker Type R M1	nd Edge( m 35 dB 1 20.00 dBm 35 dB 1 1200/1200 01 -14.424 01 -14.424 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Offset SWT 2 dBm M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	2.42 dB = 27.5 µs = 27.5 µ	IT 2-DHS RBW 100 kH VBW 300 kH 	5 2480N	Auto FFT	product Agreeding	2.48 2.48	5.72 d 015000 ( 

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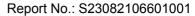


Ref Level 20 Att	.00 dBm 35 dB			RBW 100 kHz VBW 300 kHz	Mode A	uto FFT			
SGL Count 80	00/8000								
1Pk Max	_			1	M	1[1]		-	1.79 dB
to Jp-							2 · · · · · ·	2,40	502900 G
10 dBm					1.11			MI	11
0 dBm	-			- m	mm. 1	MAN	m	h Nonth	man
				r	· wa	. * (		T~	N.
-10 dBm	-						1	1,	
-20 dBm		-	-			1			
6 7 m					_				1
-30 dBm									
-40 dBm	_				_				-
			mon						1.1
-50 dBm	mm	mont					-		
-60 dBm		1.00				-			
						1.000	1		
-70 dBm						-		-	
5									
AND A COMPANY OF A CARD AND A									
CF 2.402 GH2 Band I Spectrum Ref Level 20				1001 NT 3-DH5 RBW 100 kHz	2402M	IHz Ant	1 Hoppi		ssion
Band I Spectrum	Edge	Offset 2 SWT 22	.38 dB 📦	1T 3-DH5	2402M				ssion
Band I Spectrum Ref Level 20 Att	Edge	Offset 2 SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M	Auto FFT.			ssion [ <sup>1</sup>
Band I Spectrum Ref Level 20 Att SGL Count 12 IPk Max	Edge	Offset 2 SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emi:	2.97 dE
Band I Spectrum Ref Level 20 Att SGL Count 12 IPk Max	Edge	Offset 2 SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emis 2.400	2.97 dE 315000 G -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max 10 dBm 0 dBm	Edge	Offset 2 SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emis 2.400	2.97 dE 315000 G -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 • 1Pk Max 10 dBm - 10 dBm	Edge 00 dBm 35 dB 00/1200	Offset 2. SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emis 2.400	2.97 dE 315000 G -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 • 1Pk Max 10 dBm - 10 dBm	Edge	Offset 2. SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emis 2.400	2.97 dE 315000 G -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 10 dBm 0 dBm -10 dBm	Edge 00 dBm 35 dB 00/1200	Offset 2. SWT 22	.38 dB 📦	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emis 2.400	ssion
Band I Spectrum Ref Level 20 Att SGL Count 12 SGL Count 12 IPk Max 10 dBm -10 dBm -20 dBm -20 dBm	Edge 00 dBm 35 dB 00/1200	Offset 2. SWT 22	.38 dB 🖷	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		ng Emis 2.400	2.97 dE 315000 G -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Edge 	Offset 2 SWT 22	.38 dB — 7.5 µs —	IT 3-DH5	2402M Mode /	Auto FFT.		2.400	2.97 dE 315000 G -54.28 dt 00000 d
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm	Edge 	Offset 2 SWT 22	.38 dB — 7.5 µs —	IT 3-DH5 RBW 100 kHz	2402M Mode /	Auto FFT.		2.400	2.97 dE 315000 G -54.28 dt 00000 d
Band I Spectrum Ref Level 20 Att SGL Count 12 ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm	Edge 	Offset 2 SWT 22	.38 dB — 7.5 µs —	IT 3-DH5	2402M Mode /	Auto FFT.		2.400	2.97 dE 315000 G -54.28 dt 00000 d
Band I Spectrum Ref Level 20 Att SGL Count 12 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm	Edge 	Offset 2 SWT 22	.38 dB — 7.5 µs —	IT 3-DH5	2402M Mode /	Auto FFT.		2.400	2.97 dE 315000 G -54.28 dt 00000 d
Band I Spectrum Ref Level 20 Att SGL Count 12 ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm	Edge .00 dBm 35 dB 00/1200	Offset 2 SWT 22	.38 dB — 7.5 µs —	IT 3-DH5	2402M Mode / M	Auto FFT.		ng Emis 2.400 2.400	2.97 dE 315000 G -54.28 dt 00000 d
Band I Spectrum Ref Level 20 Att SGL Count 12 SGL Count 12 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Edge 	Offset 2. SWT 22	.38 dB 7.5 µs	IT 3-DH5	2402M Mode / M	۵.uto FFT. ۱[1] 2[1]		ng Emis 2.400 2.400 	2.97 dE 315000 G -54.28 dt 000000 dt -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Edge 	Offset 2 SWT 22	.38 dB 7.5 µs М4 шил близира 5 GHz	IT 3-DH5 RBW 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz 100 kHz 100 kHz 100 kHz 2.97 dBn	2402M Mode / M M M M	۵.uto FFT. ۱[1] 2[1]		ng Emis 2.400 2.400	2.97 dE 315000 G -54.28 dt 000000 dt -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 ID dBm 0 dBm -10 dBm -10 dBm -20 dBm -10 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70	Edge .000 dBm 35 dB 00/1200 -18.211 	Offset 2 SWT 22 dBm dBm x-value 2.4031 2.	.38 dB 7.5 µs	IT 3-DH5 RBW 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz 100 kHz 100 kHz 2.97 dBn -54.28 dBn	2402M Mode / M M M M	۵.uto FFT. ۱[1] 2[1]		ng Emis 2.400 2.400 	2.97 dE 315000 G -54.28 dt 000000 dt -54.28 dt
Band I Spectrum Ref Level 20 Att SGL Count 12 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Edge 	Offset 2. SWT 22	.38 dB 7.5 µs М4 шил близира 5 GHz	IT 3-DH5 RBW 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz 100 kHz 100 kHz 100 kHz 2.97 dBn	2402M Mode / M M M M	۵.uto FFT. ۱[1] 2[1]		ng Emis 2.400 2.400 	2.97 dE 315000 G -54.28 dt 000000 dt -54.28 dt

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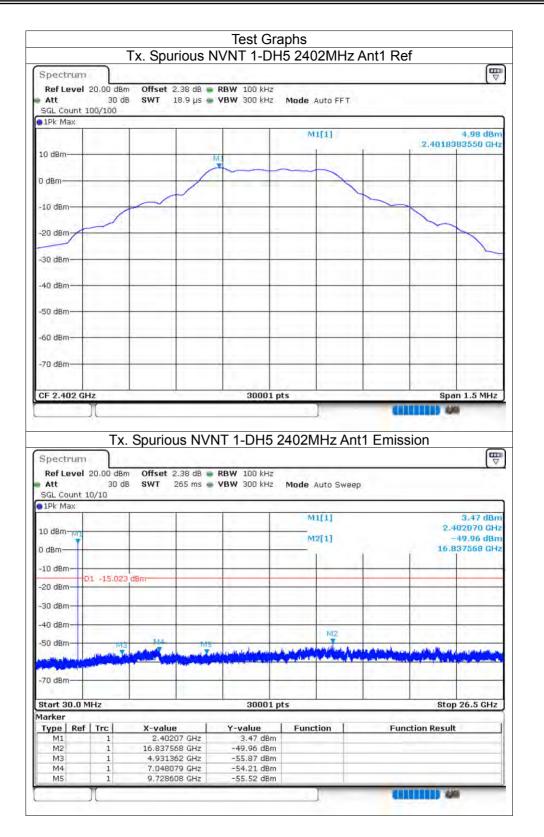




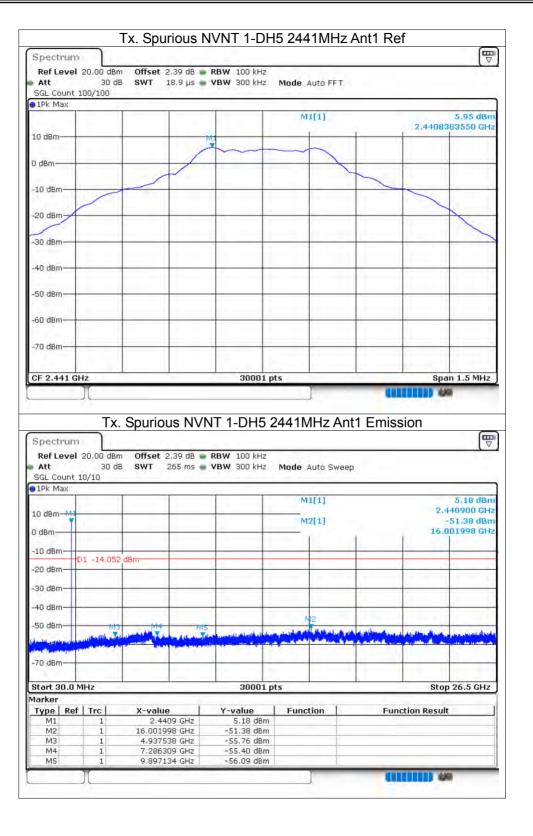
### 8.9 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.93	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.33	-20	Pass
NVNT	1-DH5	2480	Ant1	-56.85	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.38	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.24	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.05	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.52	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.06	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.5	-20	Pass











Spectrum		Tx. Spurio							E
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		Spurious		1-DH5 2		Hz An	t1 Emiss		
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Ref Level Att SGL Count	20.00 dBm 30 dB	Offset 2.4	2 dB 🝙 RB	1-DH5 2	2480M	_			10
Ref Level Att SGL Count	20.00 dBm 30 dB	Offset 2.4	2 dB 🝙 RB	1-DH5 2	2480M Mode A	uto Sweej			
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Ref Level Att SGL Count 1Pk Max	20.00 dBm 30 dB	Offset 2.4	2 dB 🝙 RB	1-DH5 2	2480M Mode A M1	uto Sweej		sion 2.	4.93 dBm 479720 GHz -50.91 dBm
Ref Level Att SGL Count 1Pk Max	20.00 dBm 30 dB	Offset 2.4	2 dB 🝙 RB	1-DH5 2	2480M Mode A M1	uto Sweej [1]		sion 2.	4,93 dBm 479720 GHz
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Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm	20.00 dBm 30 dB	Offset 2.4 SWT 26	2 dB 🝙 RB	1-DH5 2	2480M Mode A M1	uto Sweej [1]		sion 2.	4.93 dBm 479720 GHz -50.91 dBm
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Ref Level        Att        SGL Count        IPk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm	20.00 dBm 30 dB 10/10	Offset 2.4 SWT 26	2 dB 🝙 RB	1-DH5 2	2480M Mode A M1	uto Sweej [1]		sion 2.	4.93 dBm 479720 GHz -50.91 dBm
Ref Level        Att        SGL Count        IPk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm	20.00 dBm 30 dB 10/10	Offset 2.4 SWT 26	2 dB 🝙 RB	1-DH5 2	2480M Mode A M1	uto Sweej [1] ?[1]		sion 2.	4.93 dBm 479720 GHz -50.91 dBm
Ref Level        Att        SGL Count        IPk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm	20.00 dBm 30 dB 10/10	Offset 2.4 SWT 26	2 dB 🝙 RB	1-DH5 2	2480M Mode A M1	uto Sweej [1] ?[1]		sion 2.	4.93 dBm 479720 GHz -50.91 dBm
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Ref Level        Att        SGL Count        IPk Max        10 dBm        10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -70 dBm        Start 30.0 M	20.00 dBm 30 dB 10/10	dBm	2 dB RB 5 ms VB	1-DH5 2	2480M Mode A M1 M2	11] [1] [1] [1] [1]		Sion 2. 16.	4,93 dBm 479720 GHz -50.91 dBm 751981 GHz
Ref Level        Att        SGL Count        IPk Max        10 dBm        10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -50 dBm        -70 dBm        Start 30.0 M	20.00 dBm 30 dB 10/10 D1 -14.050	Offset 2.4 SWT 26	2 dB RB 5 ms VB	1-DH5 2	2480M Mode A M1 M2	11] [1] [1] [1] [1]		2. 16.	4.93 dBm 479720 GHz -50.91 dBm 751981 GHz
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Ref Level        Att        SGL Count        IPk Max        10 dBm        10 dBm        -10 dBm        -20 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -50 dBm        -50 dBm        datase        -70 dBm        Start 30.0 M        Marker        Type        M1        M2        M3	20.00 dBm 30 dB 10/10 D1 -14.050 MHz MHz I Trc   1 1 1	Contraction of the second seco	2 dB RB	1-DH5 2	2480M Mode A M1 M2	11] [1] [1] [1] [1]		Sion 2. 16.	4,93 dBm 479720 GHz -50.91 dBm 751981 GHz
Ref Level        Att        SGL Count        IPk Max        10 dBm        10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -70 dBm        Start 30.0 M        Adrker        Type      Ref        M1        M2	20.00 dBm 30 dB 10/10 01 -14.050 10/10 11 11 11	Contraction of the second seco	2 dB RB 5 ms VB	1-DH5 2 w 100 kHz w 300 kHz 	2480M Mode A M1 M2	11] [1] [1] [1] [1]		Sion 2. 16.	4,93 dBm 479720 GHz -50.91 dBm 751981 GHz

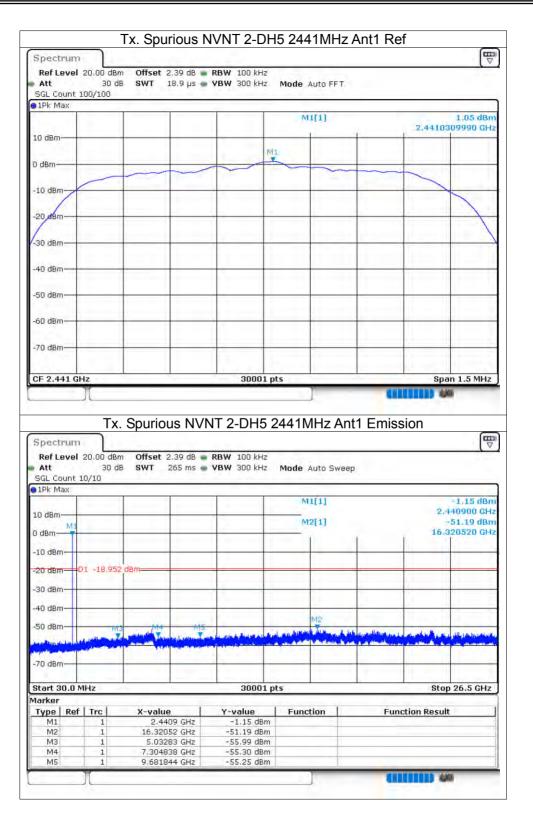


Spectrum	6. 7 1.4 0								
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Spectrum Ref Level	ЛТх.	Offset 2.3	38 dB 🝙 I	IT 2-DH5 2	2402M				an 1.3 MH2
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Ref Level Att SGL Count 1 1Pk Max 0 dBm dBm	Tx. 20.00 dBm 30 dB	Offset 2.3	38 dB 🝙 I	IT 2-DH5 2	2402M Mode A M1	uto Sweej		sion 2.	-0.58 dBm 402070 GHz -51.13 dBm
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Ref Level Att SGL Count 1 1Pk Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm	Tx. 20.00 dBm 30 dB	Offset 2.3 SWT 26	38 dB 🝙 I	IT 2-DH5 2	2402M Mode A M1	uto Sweej		sion 2.	-0.58 dBm 402070 GHz -51.13 dBm
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## Certificate #4298.01

Report No.: S23082106601001



Iac-MR

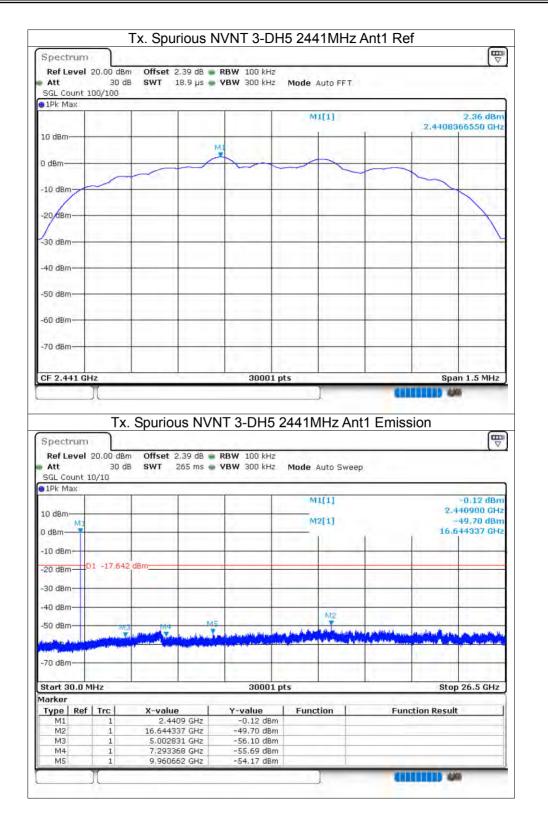


Pofia	m el 20.00 dBr	n Offcot 3 4	2 dB = 1	RBW 100 kHz		_			
Att	er 20.00 ubi 30 d			VBW 300 kHz		Auto FFT			
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		. Spurious	NVN	30001 T 2-DH5		) 1Hz Ar	nt1 Emis		
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Spectru Ref Lev Att SGL Cour	Tx m el 20.00 dBr 30 d nt 10/10	m Offset 2.4	2 dB 🍙 I	T 2-DH5	2480M	Auto Swee			
Spectru Ref Lev Att SGL Cour 1Pk Max	Tx m el 20.00 dBr 30 d nt 10/10	m Offset 2.4	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion	
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Spectru Ref Lev Att SGL Cour ) 1Pk Max 10 dBm h 0 dBm	Tx m el 20.00 dBr 30 d nt 10/10	m Offset 2.4	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz
Spectru Ref Lev Att SGL Cour ) IPk Max 10 dBm— ) dBm— -10 dBm—	Tx m el 20.00 dBr 30 d it 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz -50.72 dBm
Spectru Ref Lev Att SGL Cour ) IPk Max 10 dBm— ) dBm— -10 dBm—	Tx m el 20.00 dBr 30 d nt 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz -50.72 dBm
Spectru Ref Lev Att SGL Cour 1Pk Max 10 dBm— 10 dBm— -10 dBm—	Tx m el 20.00 dBr 30 d it 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz -50.72 dBm
Spectru Ref Lev Att SGL Cour 1Pk Max 10 dBm- 10 dBm- -10 dBm- -30 dBm-	Tx m el 20.00 dBr 30 d it 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz -50.72 dBm
Att SGL Cour 1Pk Max 10 dBm— h0 dBm— -10 dBm— -20 dBm— -30 dBm— -40 dBm—	Tx m el 20.00 dBr 30 d it 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz -50.72 dBm
Spectru Ref Lev Att SGL Cour 1Pk Max 10 dBm— h 0 dBm— -10 dBm— -20 dBm— -30 dBm—	Tx m el 20.00 dBr 30 d it 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee		sion 2.	0.81 dBm 480600 GHz -50.72 dBm
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Spectru Ref Lev Att SGL Cour 1Pk Max 1 DdBm- 10 dBm- 30 dBm- 30 dBm- 30 dBm- 50 dBm-	Tx m el 20.00 dBr 30 d it 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480N Mode ,	Auto Swee	ър.	sion 2.	0.81 dBm 480600 GHz -50.72 dBm
Spectru Ref Lev Att SGL Cour 1Pk Max 10 dBm— 10 dBm— 20 dBm— 30 dBm— 30 dBm— 40 dBm— 50 dBm—	Tx m el 20.00 dBr 30 d ht 10/10	m Offset 2.4%	2 dB 🍙 I	T 2-DH5	2480M	Auto Swee	ър.	2. 15.	0,81 dBm 480600 GHz -50.72 dBm 761121 GHz
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Spectru Ref Lev Att SGL Cour 1Pk Max 1 D dBm- 10 dBm- 10 dBm- 30 dBm- 30 dBm- 30 dBm- 30 dBm- 30 dBm- 30 dBm- 50 dB	Tx mel 20.00 dBr 30 d nt 10/10 01 -20.656 001 -20.656 001 -20.656 001 -20.656	m Offset 2.4% B SWT 265	2 dB 1 5 ms 1 MS GHz	T 2-DH5	2480M	Auto Swee		2. 15.	0.81 dBm 480600 GHz -50.72 dBm 761121 GHz
Spectru Ref Lev Att SGL Cour 1Pk Max 1 0 dBm- h 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -30 dBm- -70 dBm- -7	Tx m el 20.00 dBr 30 d ht 10/10 0 1 -20.656 0 MHz 0 MHz	m Offset 2.4/ B SWT 265	2 dB 1 5 ms 1 MS GHz GHz GHz	T 2-DH5	2480M	Auto Swee		2 15 5 5 5	0.81 dBm 480600 GHz -50.72 dBm 761121 GHz
Spectru Ref Lev Att SGL Cour 1Pk Max 10 dBm- 10 dBm- 10 dBm- 20 dBm- 30 dBm- 30 dBm- 30 dBm- 30 dBm- 50 dBm	Tx mel 20,00 dBr 30 d ht 10/10 01 -20.65r 0 MHz ef Trc 1 1 1 1	m Offset 2.4% B SWT 265	2 dB 1 5 ms 1 5	T 2-DH5 RBW 100 kHz yBW 300 kHz 300 kHz 300 kHz 300 kHz 300 kHz 300 kHz 300 kHz 300 kHz 55.29 dBr -55.29 dBr -55.29 dBr	2480N	Auto Swee		2 15 5 5 5	0.81 dBm 480600 GHz -50.72 dBm 761121 GHz
Spectru Ref Lev Att SGL Cour 1Pk Max 10 dBm— 10 dBm— 20 dBm— 20 dBm— 30 dBm— 30 dBm— 30 dBm— 30 dBm— 30 dBm— 50 dBm	Tx m el 20.00 dBr 30 d nt 10/10 D1 -20.656 0 MHz 0 MHz ef Trc 1 1	m Offset 2.47 B SWT 265 6 dBm 5 dBm 2 4806 15.761121 4.961361	2 dB 1 5 ms 1 5	T 2-DH5 RBW 100 kHz yBW 300 kHz 300 kHz Hz Hz Hz Hz Hz Hz Hz Hz Hz	2480N	Auto Swee		2 15 5 5 5	0.81 dBm 480600 GHz -50.72 dBm 761121 GHz



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Ref Level Att SGL Count	20.00 dBr 30 dl	n Offset 2.	.38 dB 📦	RBW 100 kHz	Mode /	Auto Swee		ion	(⊽_
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Ref Level        Att        SGL Count        1Pk Max        10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -50 dBm        -50 dBm        -70 dBm        -70 dBm	20,00 dBr 30 dl 10/10 01 -17.727 01 -17.727 01 01 01 01 01 01 01 01 01 01 01 01 01	dBm	.38 dB	RBW 100 kHz VBW 300 kHz	Mode /	Auto Swee		2.4 17.6	1.61 dBm 02070 GHz 51.25 dBm 89019 GHz
Ref Level Att SGL Count IPk Max 10 dBm dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm 5	20,00 dBr 30 dl 10/10 01 -17.727 01 -17.727 MEz MHz	dBm dBm x-value 2.4020 17.68901 4.94459	.38 dB 65 ms	RBW 100 kHz VBW 300 kHz	Mode /	Auto Swee		2.4 17.6	1.61 dBm 02070 GHz 51.25 dBm 89019 GHz
Ref Level Att        SGL Count        1Pk Max        10 dBm        -10 dBm        -10 dBm        -20 dBm        -30 dBm        -40 dBm        -50 dBm        -50 dBm        -60 dBm        -70 dBm	20,00 dBr 30 dl 10/10 01 -17.727 01 -17.727 01 01 01 01 01 01 01 01 01 01 01 01 01	dBm X-value 2.4020 17.68901	.38 dB 65 ms 65 ms 165 ms 165 ms 16 GHz 17 GHz 17 GHz 16 GHz	RBW 100 kHz VBW 300 kHz	Mode /	Auto Swee		2.4 17.6	1.61 dBm 02070 GHz 51.25 dBm 89019 GHz
Att SGL Count SGL Count SGL Count SGL Count SGL Count MI O dBm MI O dBm CO d	20,00 dBr 30 dl 10/10 01 -17.727 01 -17.727 MHz MHz	dBm K-value 2.4020 17.68901 4.94459 7.01278	.38 dB 65 ms 65 ms 165 ms 165 ms 16 GHz 17 GHz 17 GHz 16 GHz	RBW 100 kHz VBW 300 kHz	Mode /	Auto Swee		2.4 17.6	1.61 dBm 02070 GHz 51.25 dBm 89019 GHz





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