

# RADIO TEST REPORT FCC ID: 2AXP2-MOP22

Product: MODEL O PRO Trade Mark: Glorious Model No.: MODEL O PRO Family Model: N/A Report No.: S22071400306001 Issue Date: Aug 03. 2022

# **Prepared for**

**Glorious LLC** 

13809 Research Blvd Suite 500 PMB 93206 Austin, TX 78750, USA

# Prepared by

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# TABLE OF CONTENTS

1	1 TEST RESULT CERTIFICATION						
2	2 SUMMARY OF TEST RESULTS						
3	FAC	CILITIES AND ACCREDITATIONS	5				
	3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5 5				
4	GE	NERAL DESCRIPTION OF EUT	6				
5	DE	SCRIPTION OF TEST MODES	8				
6	SET	FUP OF EQUIPMENT UNDER TEST	9				
	6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	0				
7	TES	ST REQUIREMENTS	3				
	7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9	CONDUCTED EMISSIONS TEST1RADIATED SPURIOUS EMISSION16DB BANDWIDTH2DUTY CYCLE2PEAK OUTPUT POWER2POWER SPECTRAL DENSITY2CONDUCTED BAND EDGE MEASUREMENT3SPURIOUS RF CONDUCTED EMISSIONS3ANTENNA APPLICATION3	6 5 6 8 9 1 2 3				
8	TES	ST RESULTS	4				



#### 1 **TEST RESULT CERTIFICATION**

Applicant's name:	Glorious LLC		
Address:	13809 Research Blvd Suite 500 PMB 93206 Austin, TX 78750, USA		
Manufacturer's Name:	Glorious LLC		
Address	13809 Research Blvd Suite 500 PMB 93206 Austin, TX 78750, USA		
Product description			
Product name:	MODEL O PRO		
Model and/or type reference:	MODEL O PRO		
Family Model	N/A		
Test Sample Number:	S220714003006		

#### Measurement Procedure Used:

APPLICABLE STANDARD/ TEST PROCEDURE	TEST
APPLICABLE STANDARDS	S

FCC 47 CFR Part 2, Subpart J

RESULT

Complied

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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

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

Date of Test	:	Jul 14. 2022 ~ Aug 03. 2022	
		hrang. Hu	
Testing Engineer	:		
		(Mary Hu)	
		Alese	
Authorized Signatory	:	Gerbar	
, in the second s		(Alex Li)	_

Version.1.3



FCC Part15 (15.247), Subpart C					
Standard Section	Test Item	Verdict	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b)	247 (b) Peak Output Power PASS				
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.247 (d) Band Edge Emission PASS					
15.247 (d) Spurious RF Conducted Emission PASS					
15.203 Antenna Requirement PASS					

#### Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.



## 3 FACILITIES AND ACCREDITATIONS

#### 3.1 FACILITIES

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

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab. :	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
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%
9	All emissions, radiated(9KHz~30MHz)	±6dB

# 4 GENERAL DESCRIPTION OF EUT

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Product Feature and Specification					
Equipment	MODEL O PRO				
Trade Mark	Glorious				
FCC ID	2AXP2-MOP22				
Model No.	MODEL O PRO				
Family Model	N/A				
Model Difference	N/A				
Operating Frequency	2402MHz~2480MHz				
Modulation	GFSK				
Number of Channels	79 Channels				
Antenna Type	Chip Antenna				
Antenna Gain	2.78dBi				
Power supply	DC 3.7Vfrom battery or DC 5V from type-c port				
Adapter	N/A				
HW Version	V1				
FW Version	V0.03.00.03				

Certificate #4298.01

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

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



# **Revision History** Report No. Version Description **Issued Date** Aug 03. 2022 Initial issue of report S22071400306001 Rev.01



## 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/2Mbps for GFSK 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
38	2440
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.

Test Cases						
Test Item Data Rate/ Modulation						
AC Conducted Emission	Mode 1: normal link mode					
	Mode 1: normal link mode					
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps					
Cases	Mode 3: GFSK Tx Ch38_2440MHz_1Mbps/2Mbps					
	Mode 4: GFSK Tx Ch78_2480MHz_1Mbps/2Mbps					
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps					
Conducted Test	Mode 3: GFSK Tx Ch38_2440MHz_1Mbps/2Mbps					
Cases	Mode 4: GFSK Tx Ch78_2480MHz_1Mbps/2Mbps					

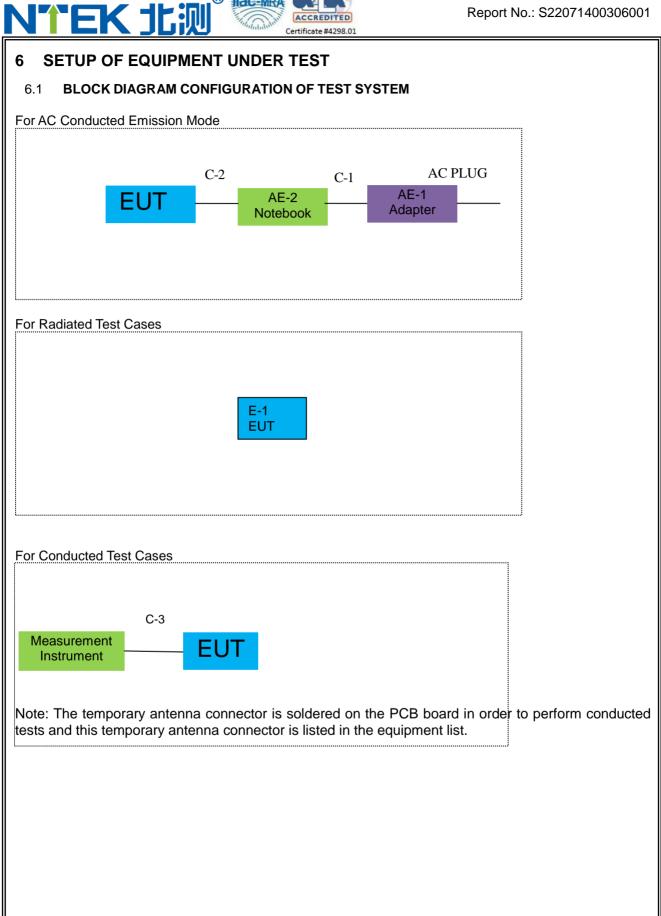
Note:

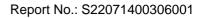
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

2. AC power line Conducted Emission was tested under maximum output power.

3. For radiated test cases, the worst mode data rate 2Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

4. EUT built-in battery-powered, the battery is fully-charged.







#### 6.2 SUPPORT EQUIPMENT

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

Certificate #4298.01

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Notebook	Lenovo	R720-15IKBN	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power cable	NO	NO	1.0m
C-2	USB cable	NO	NO	1.5m
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

	ona Conducted I	estequipment	-				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2021.11.07	2022.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2021.11.07	2022.11.06	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.06.16	2023.06.15	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2021.03.29	2024.03.28	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2021.03.29	2024.03.28	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2021.03.29	2024.03.28	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2021.03.29	2024.03.28	3 year
16	Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2022.04.06	2023.04.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2021.03.29	2024.03.28	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2021.03.29	2024.03.28	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2021.03.29	2024.03.28	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

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#### 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

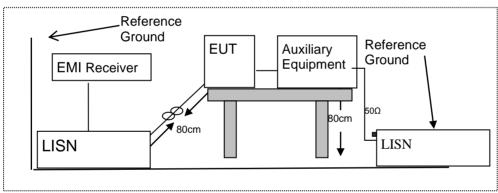
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 7.1.3 Measuring Instruments

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

#### 7.1.4 Test Configuration



#### 7.1.5 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.

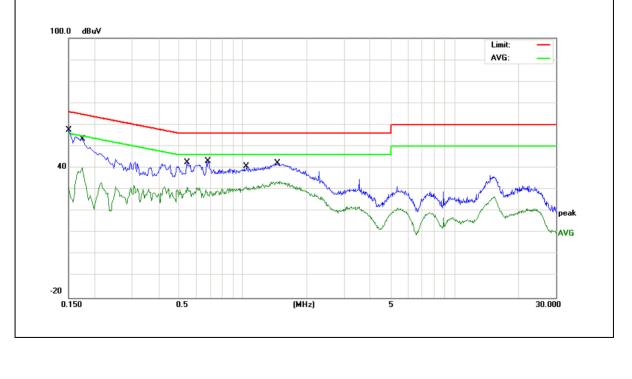


#### 7.1.6 Test Results

EUT:		MODEL	O PRO		Мо	del Name :	MODEL O PRO	
Temperature: 22 ℃ Relative Humidity: 57%								
Pressure:		1010hPa			Ph	ase :	L	
Test Voltage	DC 5V from Adapter							
Frequency	Read	ding Level	Correct Factor	Measure-mer	nt	Limits	Margin	Damarda
(MHz)	(	dBµV)	(dB)	(dBµV)		(dBµV)	(dB)	Remark
0.1500		47.87	9.60	57.47		65.99	-8.52	QP
0.1500		28.88	9.60	38.48		55.99	-17.51	AVG
0.1740		43.76	9.61	53.37		64.76	-11.39	QP
0.1740		24.57	9.61	34.18		54.76	-20.58	AVG
0.5460		32.78	9.66	42.44		56.00	-13.56	QP
0.5460		21.51	9.66	31.17		46.00	-14.83	AVG
0.6860		33.45	9.67	43.12		56.00	-12.88	QP
0.6860		20.27	9.67	29.94		46.00	-16.06	AVG
1.0380		31.19	9.68	40.87		56.00	-15.13	QP
1.0380		21.77	9.68	31.45		46.00	-14.55	AVG
1.4620		32.46	9.67	42.13		56.00	-13.87	QP
1.4620		24.05	9.67	33.72		46.00	-12.28	AVG

Remark:

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



Version.1.3



EUT:	MODEL O PRO		1	Model Name :	MODE	MODEL O PRO		
Temperature:		<b>22</b> °C		1	Relative Humidi	ty: 57%		
Pressure:		1010hPa		1	Phase :	N		
Test Voltage	t Voltage : DC 5V from Adapter AC 120V/60Hz Test Mode: Mode 1		1					
Frequency	Read	ding Level	Correct Factor	Measure-mer	nt Limits	Margi	n	Domor
(MHz)	(	dBµV)	(dB)	(dBµV)	(dBµV)	(dB)		Remar
0.1500		47.12	9.65	56.77	65.99	-9.22	2	QP
0.1500		26.12	9.65	35.77	55.99	-20.2	2	AVG
0.1780		45.42	9.64	55.06	64.57	-9.51		QP
0.1780		33.42	9.64	43.06	54.57	-11.5	1	AVG
0.2460		38.29	9.62	47.91	61.89	-13.9	8	QP
0.2460		29.44	9.62	39.06	51.89	-12.8	3	AVG
0.2940		35.68	9.64	45.32	60.41	-15.0	9	QP
0.2940		27.46	9.64	37.10	50.41	-13.3	1	AVG
0.7580		33.78	9.68	43.46	56.00	-12.5	4	QP

32.39

43.71

34.64

46.00

56.00

46.00

-13.61

-12.29

-11.36

AVG

QP

AVG

1.5540 Remark:

0.7580

1.5540

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

22.71

34.04

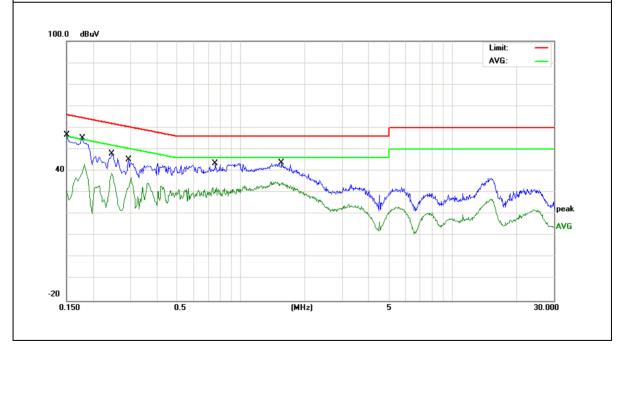
24.97

9.68

9.67

9.67

2. Factor = Insertion Loss + Cable Loss.





#### 7.2 RADIATED SPURIOUS EMISSION

#### 7.2.1 Applicable Standard

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

#### 7.2.2 Conformance Limit

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

According to 1 00 1 art 15.205, Restricted bands					
MHz	MHz	GHz			
16.42-16.423	399.9-410	4.5-5.15			
16.69475-16.69525	608-614	5.35-5.46			
16.80425-16.80475	960-1240	7.25-7.75			
25.5-25.67	1300-1427	8.025-8.5			
37.5-38.25	1435-1626.5	9.0-9.2			
73-74.6	1645.5-1646.5	9.3-9.5			
74.8-75.2	1660-1710	10.6-12.7			
123-138	2200-2300	14.47-14.5			
149.9-150.05	2310-2390	15.35-16.2			
156.52475-156.52525	2483.5-2500	17.7-21.4			
156.7-156.9	2690-2900	22.01-23.12			
162.0125-167.17	3260-3267	23.6-24.0			
167.72-173.2	3332-3339	31.2-31.8			
240-285	3345.8-3358	36.43-36.5			
322-335.4	3600-4400	(2)			
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358			

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)

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

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

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

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.



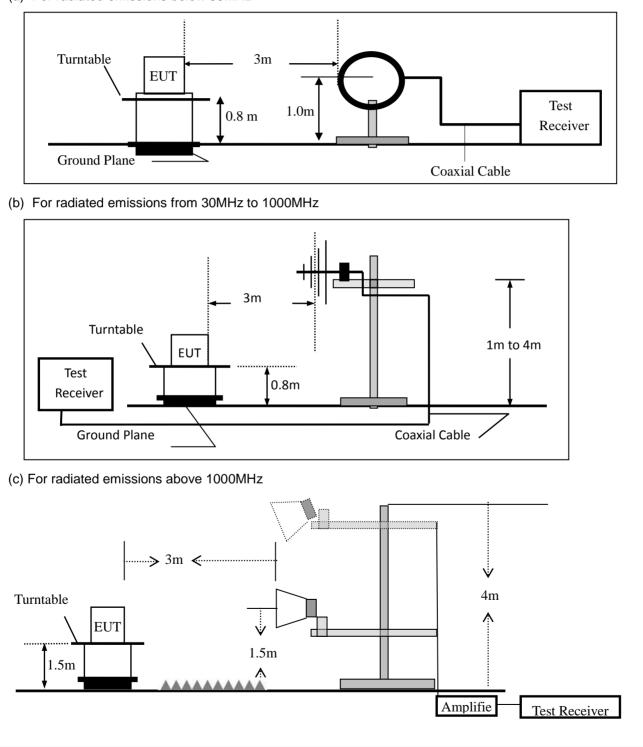
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The Measuring equipment is listed in the section 6.3 of this test report.

Certificate #4298.01

#### 7.2.4 Test Configuration

#### (a) For radiated emissions below 30MHz





#### 7.2.5 Test Procedure

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz 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	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:					
Free	quency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth		
	30 to 1000	QP	120 kHz	300 kHz		
	Ab aug 1000	Peak	1 MHz	1 MHz		
Free	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:	MODEL O PRO	Model No.:	MODEL O PRO
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3/ Mode4	Test By:	Mary Hu

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

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



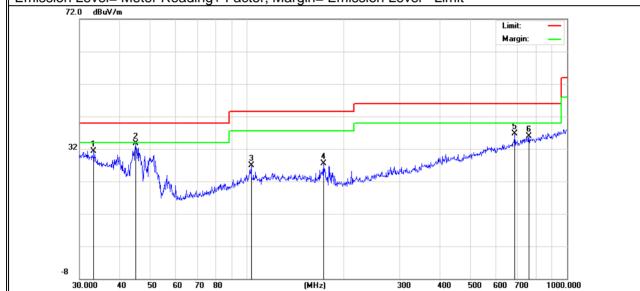
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

/ III IIIO IIIOddiala	in modele nave been teeted;	and the worst recait was reper	1 40 501011.
EUT:	MODEL O PRO	Model Name :	MODEL O PRO
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	GFSK (2M) CH00
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	33.2111	7.07	24.25	31.32	40.00	-8.68	QP
V	44.9006	15.94	17.83	33.77	40.00	-6.23	QP
V	103.0800	9.06	17.82	26.88	43.50	-16.62	QP
V	173.2051	10.37	17.09	27.46	43.50	-16.04	QP
V	687.1507	9.23	27.49	36.72	46.00	-9.28	QP
V	760.7036	7.22	28.64	35.86	46.00	-10.14	QP

#### Remark:

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





Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
167.8242	14.10	17.32	31.42	43.50	-12.08	QP
180.0165	19.05	16.78	35.83	43.50	-7.67	QP
408.9460	10.96	23.40	34.36	46.00	-11.64	QP
			33.73	46.00	-12.27	QP
						QP
	6.30	30.41	36.71	46.00	-9.29	QP
72.0 dBuV/m			2	3	Limit: Margin:	
	ilwawhiterrhtwarn	www.WMMMateriala	W Warm Internet	www.WMM.www.ww		
B	<u> </u>			100 500	C00 700 1000	
r	(MHz) 167.8242 180.0165 408.9460 603.5392 750.1082 890.7278 : n Level= Meter F 72.0 dBuV/m	Frequency       Reading         (MHz)       (dBuV)         167.8242       14.10         180.0165       19.05         408.9460       10.96         603.5392       7.29         750.1082       8.96         890.7278       6.30         :	Frequency         Reading         Factor           (MHz)         (dBuV)         (dB)           167.8242         14.10         17.32           180.0165         19.05         16.78           408.9460         10.96         23.40           603.5392         7.29         26.44           750.1082         8.96         28.86           890.7278         6.30         30.41           :         n         Level= Meter Reading+ Factor, Margin           72.0         dBuV/m         4000000000000000000000000000000000000	Frequency         Reading         Factor         Level           (MHz)         (dBuV)         (dB)         (dBuV/m)           167.8242         14.10         17.32         31.42           180.0165         19.05         16.78         35.83           408.9460         10.96         23.40         34.36           603.5392         7.29         26.44         33.73           750.1082         8.96         28.86         37.82           890.7278         6.30         30.41         36.71           :         n         Level= Meter Reading+ Factor, Margin= Emission Le           72.0         dBuV/m         4         4	Frequency         Reading         Factor         Level         Limits           (MHz)         (dBuV)         (dB)         (dBuV/m)         (dBuV/m)           167.8242         14.10         17.32         31.42         43.50           180.0165         19.05         16.78         35.83         43.50           408.9460         10.96         23.40         34.36         46.00           603.5392         7.29         26.44         33.73         46.00           750.1082         8.96         28.86         37.82         46.00           890.7278         6.30         30.41         36.71         46.00           10         Level=         Meter Reading+ Factor, Margin= Emission Level - Limit	Frequency         Reading         Factor         Level         Linnts         Margin           (MHz)         (dBuV)         (dB)         (dB)         (dBuV/m)         (dBuV/m)         (dB)           167.8242         14.10         17.32         31.42         43.50         -12.08           180.0165         19.05         16.78         35.83         43.50         -7.67           408.9460         10.96         23.40         34.36         46.00         -11.64           603.5392         7.29         26.44         33.73         46.00         -8.18           890.7278         6.30         30.41         36.71         46.00         -9.29           1         Level=         Meter Reading+ Factor, Margin= Emission Level - Limit         -9.29         -



Spurious	s Emissio	on Above	1GHz (1GI	Hz to 2	25GH	Hz)					
EUT:	М	ODEL O	PRO	l	Mode	el No.:		MODE	L O PRO		
Temperature	e: 20	<b>)</b> °C		]	Relat	tive Humidity	/:	48%			
Test Mode:	М	ode2/Mo	de3/Mode4	ŀ	Test	By:		Mary H	łu		
Frequency	Read Level	Cable loss	Antenna Factor	Prea Fac		Emission Level	Li	imits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dE	3)	(dBµV/m)	(dB	μV/m)	(dB)		
Low Channel (2402 MHz)(GFSK)Above 1G											
4802.40	62.10	5.21	35.59	44.	30	58.60	74	4.00	-15.40	Pk	Vertical
4802.40	43.15	5.21	35.59	44.	30	39.65	54	4.00	-14.35	AV	Vertical
7206.04	63.77	6.48	36.27	44.	60	61.92	74	4.00	-12.08	Pk	Vertical
7206.04	43.45	6.48	36.27	44.	60	41.60	54	4.00	-12.40	AV	Vertical
4804.14	64.91	5.21	35.55	44.	30	61.37	74	4.00	-12.63	Pk	Horizontal
4804.14	43.47	5.21	35.55	44.	30	39.93	54	4.00	-14.07	AV	Horizontal
7206.23	62.48	6.48	36.27	44.	52	60.71	74	4.00	-13.29	Pk	Horizontal
7206.23	43.59	6.48	36.27	44.	52	41.82	54	4.00	-12.18	AV	Horizontal
Mid Channel (2440 MHz)(GFSK)Above 1G											
4880.134	62.06	5.21	35.66	44.	20	58.73	74	4.00	-15.27	Pk	Vertical
4880.134	43.45	5.21	35.66	44.	20	40.12	54	4.00	-13.88	AV	Vertical
7320.705	64.33	7.10	36.50	44.	43	63.50	74	4.00	-10.50	Pk	Vertical
7320.705	43.74	7.10	36.50	44.	43	42.91	54	4.00	-11.09	AV	Vertical
4880.923	60.83	5.21	35.66	44.	20	57.50	74	4.00	-16.50	Pk	Horizontal
4880.923	43.01	5.21	35.66	44.	20	39.68	54	4.00	-14.32	AV	Horizontal
7320.252	60.66	7.10	36.50	44.	43	59.83	74	4.00	-14.17	Pk	Horizontal
7320.252	43.71	7.10	36.50	44.	43	42.88	54	4.00	-11.12	AV	Horizontal
			High Chan	nel (2	480	MHz)(GFSK	) Al	bove 10	<u> </u>		
4960.060	62.04	5.21	35.52	44.	21	58.56	74	4.00	-15.44	Pk	Vertical
4960.060	43.70	5.21	35.52	44.	21	40.22	54	4.00	-13.78	AV	Vertical
7440.613	60.27	7.10	36.53	44.	60	59.30	74	4.00	-14.70	Pk	Vertical
7440.613	43.85	7.10	36.53	44.	60	42.88	54	4.00	-11.12	AV	Vertical
4960.858	64.06	5.21	35.52	44.	21	60.58	74	4.00	-13.42	Pk	Horizontal
4960.858	43.15	5.21	35.52	44.	21	39.67	54	4.00	-14.33	AV	Horizontal
7440.497	63.39	7.10	36.53	44.	60	62.42	74	4.00	-11.58	Pk	Horizontal
7440.497	43.74	7.10	36.53	44.	60	42.77	54	4.00	-11.23	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst



UT:	MODEL	O PRO		Mod	Model No.: MOD			DEL O PRO		
emperature:	<b>20</b> ℃	20 ℃ Relative H				ty:	48%			
est Mode:	Mode2/	Mode4	Test By:				Mary	′ Hu		
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	its	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ\	V/m)	(dB)	Туре	Comment
GFSK										
2310.00	64.77	2.97	27.80	43.80	51.74	74	4	-22.26	Pk	Horizonta
2310.00	39.85	2.97	27.80	43.80	26.82	54	4	-27.18	AV	Horizonta
2310.00	62.34	2.97	27.80	43.80	49.31	74	4	-24.69	Pk	Vertical
2310.00	43.44	2.97	27.80	43.80	30.41	54	4	-23.59	AV	Vertical
2390.00	61.52	3.14	27.21	43.80	48.07	74	4	-25.93	Pk	Vertical
2390.00	43.61	3.14	27.21	43.80	30.16	54	4	-23.84	AV	Vertical
2390.00	60.38	3.14	27.21	43.80	46.93	74	4	-27.07	Pk	Horizonta
2390.00	43.59	3.14	27.21	43.80	30.14	54	4	-23.86	AV	Horizonta
2483.50	62.41	3.58	27.70	44.00	49.69	74	4	-24.31	Pk	Vertical
2483.50	43.52	3.58	27.70	44.00	30.80	54	4	-23.20	AV	Vertical
2483.50	61.98	3.58	27.70	44.00	49.26	74	4	-24.74	Pk	Horizontal
2483.50	43.36	3.58	27.70	44.00	30.64	54	4	-23.36	AV	Horizontal

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

(2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst



EUT:		MOE	DEL O PI	20		Mode	l No.:		MODE	L O PRO		
Temperatu	re:	<b>20</b> °C	<b>20</b> ℃			Relat	ive Humidity	<b>/:</b>	48%			
Test Mode:		Mode2/ Mode4 Test By:			Mary ⊦	u						
Frequency	Read Lev	•	Cable Loss	Antenna Factor		amp ctor	Emission Level	Li	imits	Margin	Detector	Comment
(MHz)	(dBµ	JV)	(dB)	dB/m	(d	IB)	(dBµV/m)	(dB	μV/m)	(dB)	Туре	
3260	64.0	04	4.04	29.57	44	.70	52.95		74	-21.05	Pk	Vertical
3260	43.8	84	4.04	29.57	44	.70	32.75		54	-21.25	AV	Vertical
3260	64.0	02	4.04	29.57	44	.70	52.93		74	-21.07	Pk	Horizontal
3260	43.4	43	4.04	29.57	44	.70	32.34		54	-21.66	AV	Horizontal
3332	63.	15	4.26	29.87	44	.40	52.88		74	-21.12	Pk	Vertical
3332	43.3	34	4.26	29.87	44	.40	33.07		54	-20.93	AV	Vertical
3332	60.8	85	4.26	29.87	44	.40	50.58		74	-23.42	Pk	Horizontal
3332	43.4	45	4.26	29.87	44	.40	33.18		54	-20.82	AV	Horizontal
17797	46.3	36	10.99	43.95	43	.50	57.80		74	-16.20	Pk	Vertical
17797	34.0	07	10.99	43.95	43	.50	45.51		54	-8.49	AV	Vertical
17788	45.9	93	11.81	43.69	44	.60	56.83		74	-17.17	Pk	Horizontal
17788	34.6	67	11.81	43.69	44	.60	45.57		54	-8.43	AV	Horizontal

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

(2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst



#### 7.3 6DB BANDWIDTH

#### 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

#### 7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

#### 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 Subclause 11.8 of ANSI C63.10

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:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\ge$  3\*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 7.3.6 Test Results

EUT:	MODEL O PRO	Model No.:	MODEL O PRO
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.4 DUTY CYCLE

#### 7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

#### 7.4.2 Conformance Limit

No limit requirement.

#### 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

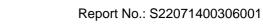
The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. Set VBW  $\geq$  RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T  $\leq$  16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if  $T \le 6.25$  microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

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 = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz ( $\geq$  RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T<sub>total</sub> and T<sub>on</sub> Calculate Duty Cycle = T<sub>on</sub>/T<sub>total</sub>





#### 7.4.6 Test Results

EUT:	MODEL O PRO	Model No.:	MODEL O PRO
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	N/A	Test By:	N/A

Note: Not Applicable



#### 7.5 **PEAK OUTPUT POWER**

#### 7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

#### 7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

#### 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 Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW  $\geq$  DTS bandwidth. Set VBW =3\*RBW. Set the span  $\geq$  3\*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

#### 7.5.6 Test Results

EUT:	MODEL O PRO	Model No.:	MODEL O PRO
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.6 **POWER SPECTRAL DENSITY**

#### 7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

#### 7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 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 Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5\*DTS bandwidth.
- c) Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set the VBW  $\geq$  3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



# 

#### 7.6.6 Test Results

EUT:	MODEL O PRO	Model No.:	MODEL O PRO
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



#### 7.7 CONDUCTED BAND EDGE MEASUREMENT

#### 7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

#### 7.7.2 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.

#### 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 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

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.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

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.

#### 7.7.6 Test Results

EUT:	MODEL O PRO	Model No.:	MODEL O PRO
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Mary Hu



#### 7.8 SPURIOUS RF CONDUCTED EMISSIONS

#### 7.8.1 Conformance Limit

Below -20dB of the highest emission level in operating band.
 Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

#### 7.8.2 Measuring Instruments

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

#### 7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

#### 7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

#### 7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz 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.



#### 7.9 ANTENNA APPLICATION

#### 7.9.1 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.

#### 7.9.2 Result

The EUT antenna is permanent attached Chip Antenna (Gain:2.78 dBi). It comply with the standard requirement.

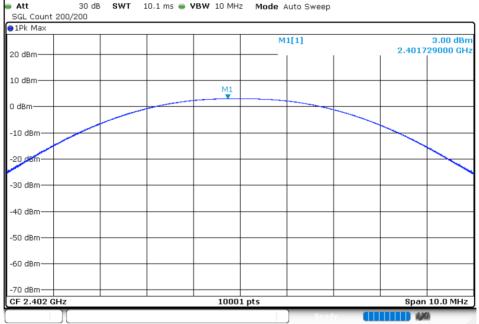


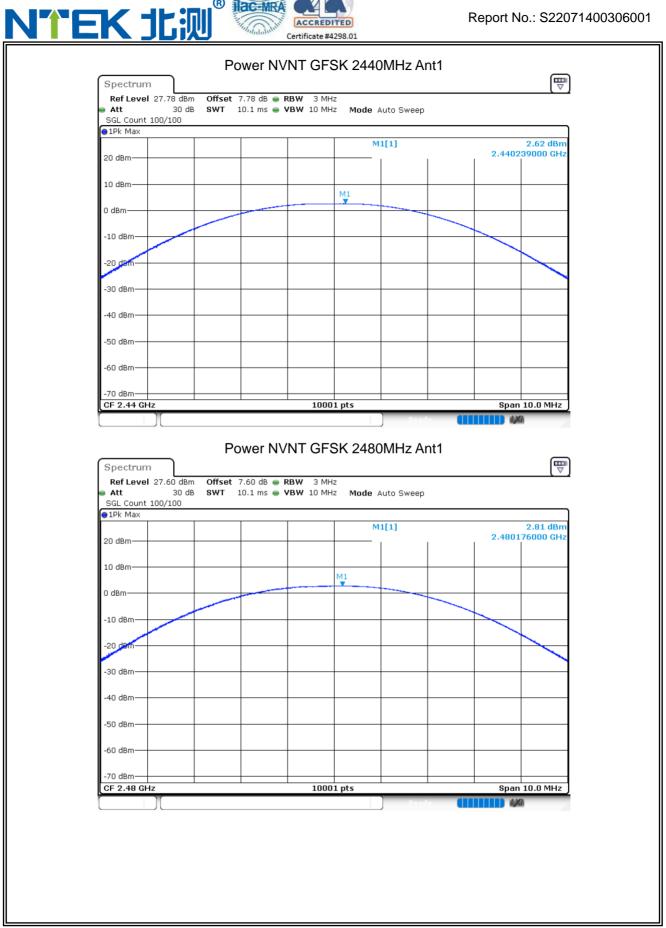
### 8 TEST RESULTS

#### 1M:

#### 8.1.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2402	Ant 1	3.00	30	Pass
NVNT	GFSK	2440	Ant 1	2.62	30	Pass
NVNT	GFSK	2480	Ant 1	2.81	30	Pass
Power NVNT BLE 2402MHz Ant1						
Spectrum						
Ref Level 27.62 dBm Offset 7.62 dB  RBW 3 MHz						
	🖷 Att		VBW 10 MHz	Mode Auto Sweep		
SGL Count 200/200						





R

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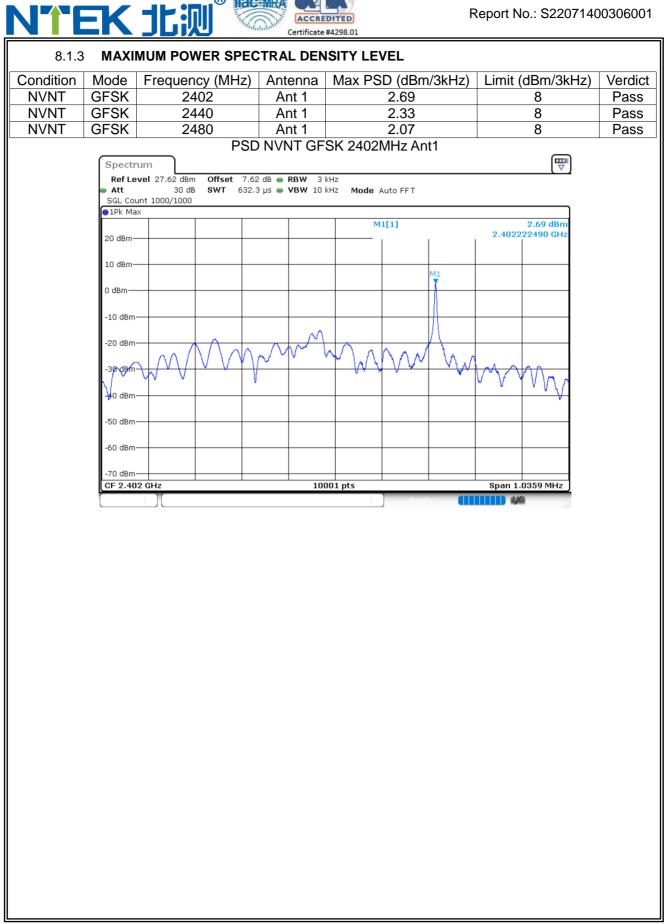
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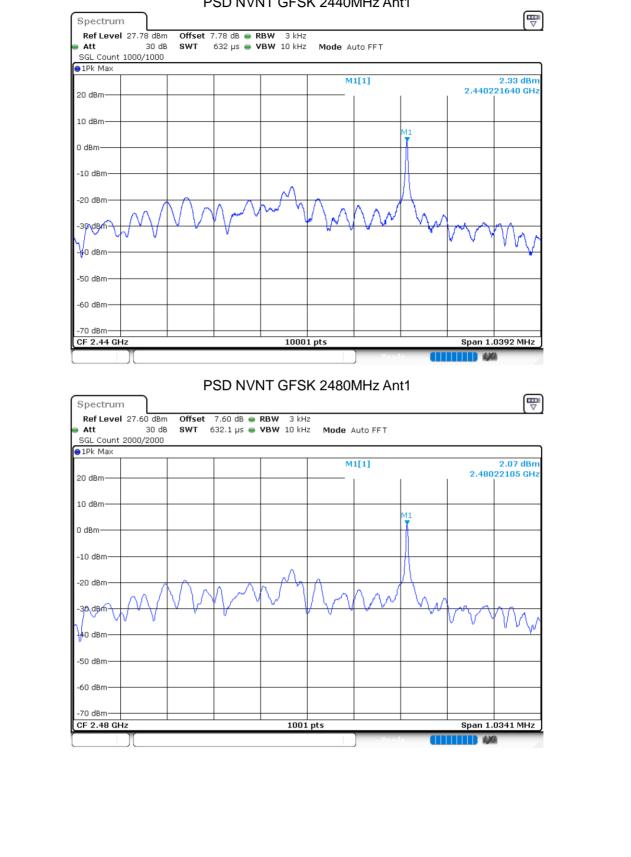


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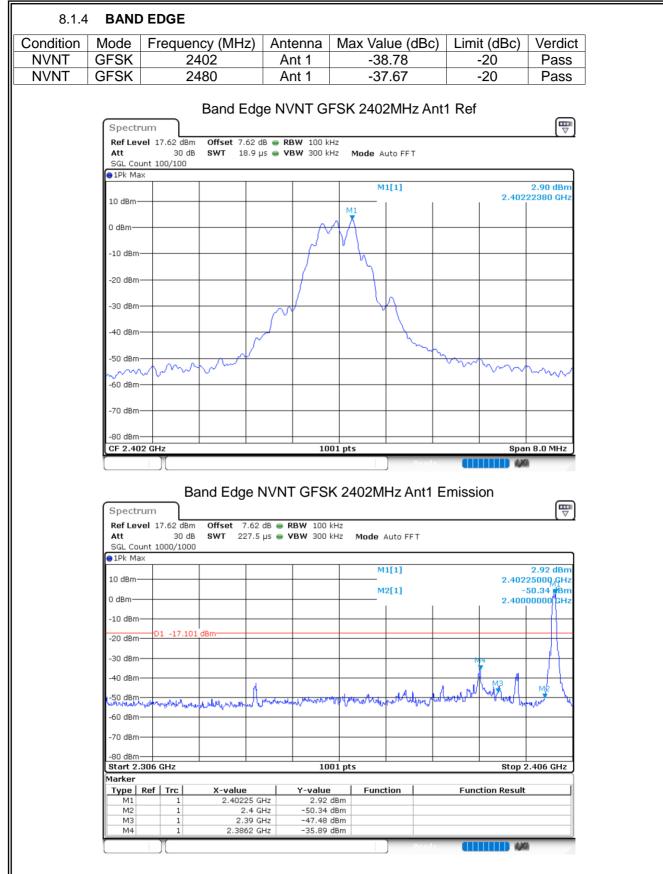
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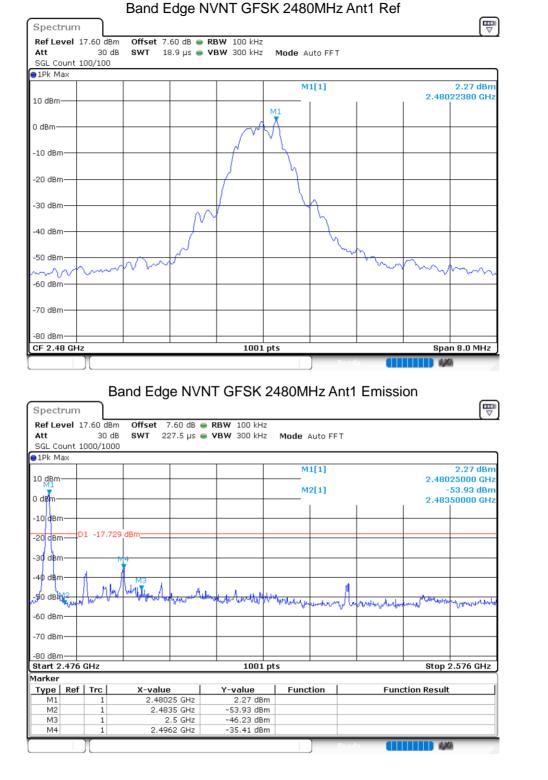


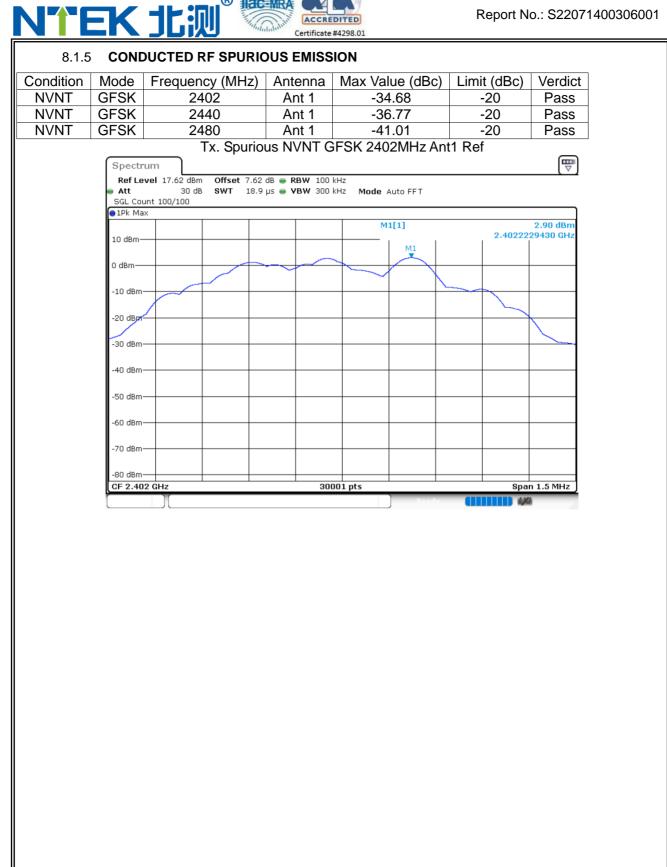




Version.1.3

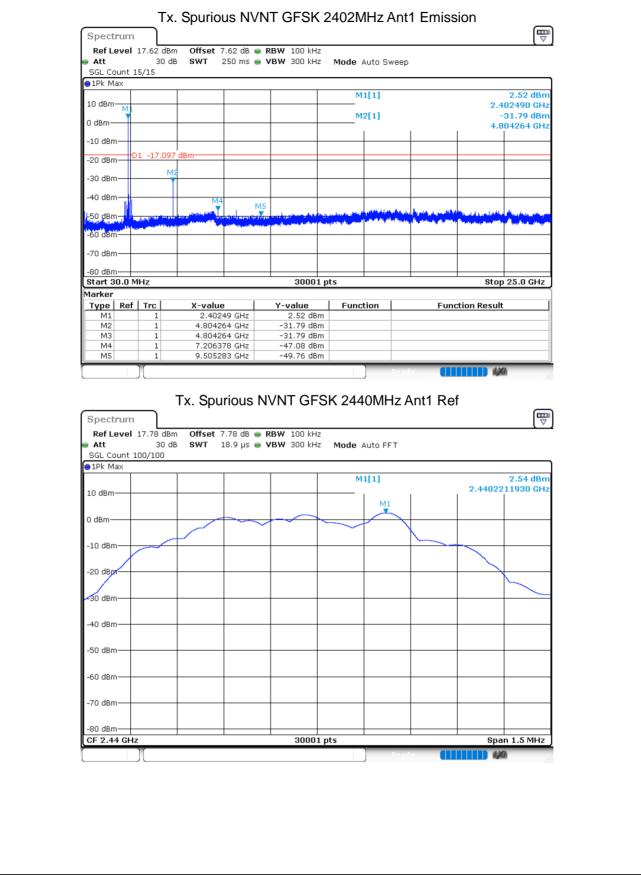




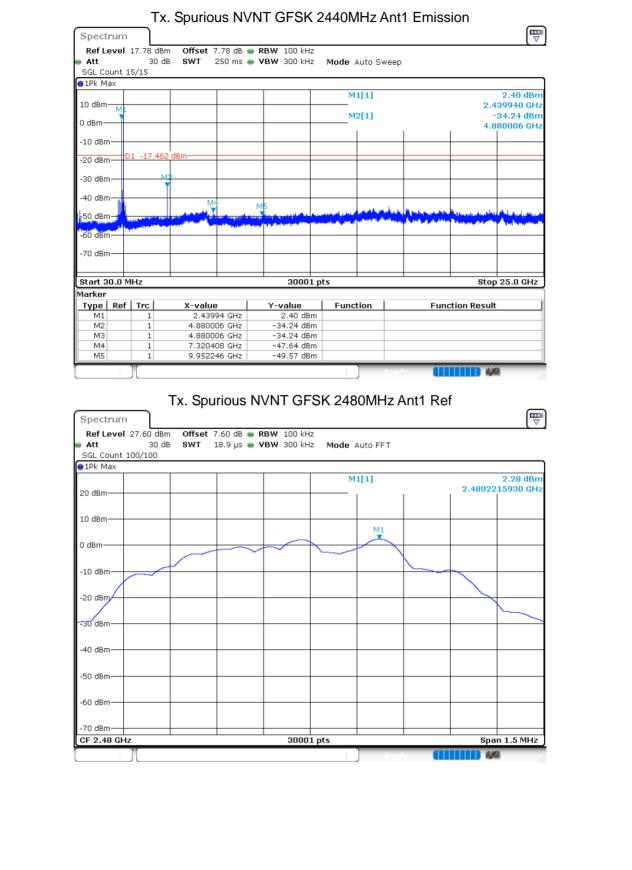


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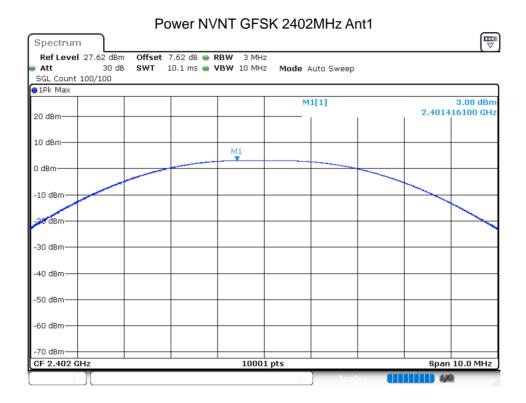
Spect	rum									□
Ref L	evel	27.60 d	Bm Offset	: 7.60 dB	RBW 100 kH;	z				
Att		30	dB SWT	250 ms (	VBW 300 kHz	Z Mode	Auto Swe	ер		
SGL Co	ount 1	0/10								
∍1Pk M	ax									
						M	1[1]		2	.25 dBm
20 dBm									2.479	890 GHz
						M	2[1]		-38	.73 dBm
10 dBm	ML								4.959	910 GHz
0 dBm–	1									
u ubiii-										
-10 dBn				_						
-20 dBn	ı — P	1 -17.7	22 dBm							
-30 dBn	א-ר		MB							
40 - 40										
-40 dBn	h.			M#	ME					
-50 dBn			المسطعيان			أمعهم الاستقريب ال	ويتروال والمختولين	and in the second second second	بأتر بالمسرحة ورياني	والمرود المرود المرود
March Rush	nal di	- hand	and the second second	all provide provide a	and the state of the state	وسقر والمراجبين	la an the start	and a standard stands	Manager and the State of the	القور والمطلو ومساقدته
-60 dBri	1			-				_		
-70 dBn										
Start 3	0.0 M	IHz			30001	l pts			Stop 2	5.0 GHz
1arker										
Туре	Ref	Trc	X-val	ue	Y-value	Func	tion	Func	tion Result	
M1		1		7989 GHz	2.25 dB					
M2		1		5991 GHz	-38.73 dB					
MЗ		1	4.95991 GHz		-38.73 dB					
M4		1		D264 GHz	-48.78 dBi					
M5		1	10.02	7156 GHz	-49.88 dBi	m				

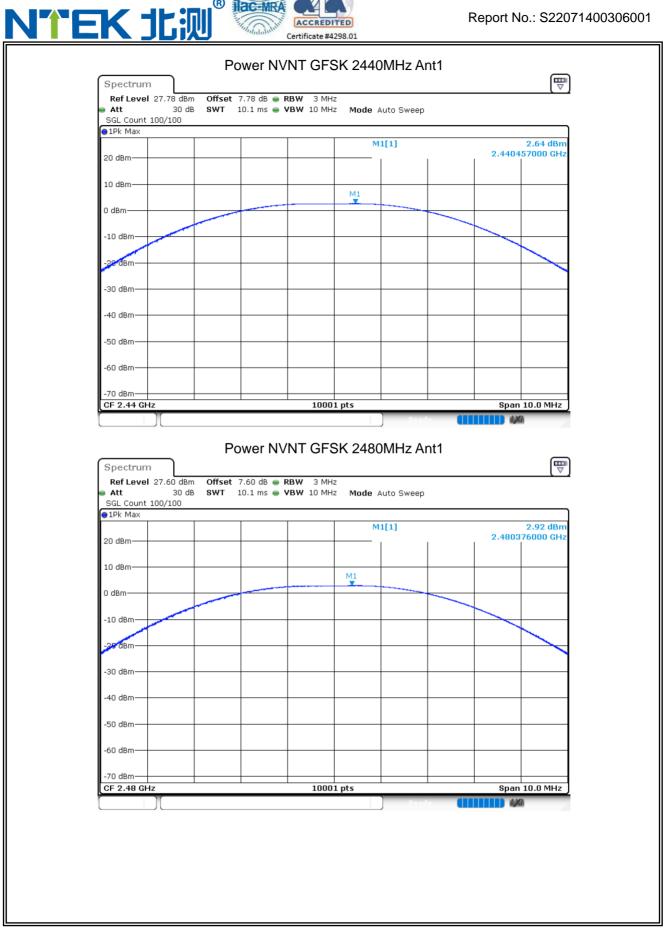


## 2M:

## 8.1.6 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	GFSK	2402	Ant 1	3.08	30	Pass
NVNT	GFSK	2440	Ant 1	2.64	30	Pass
NVNT	GFSK	2480	Ant 1	2.92	30	Pass



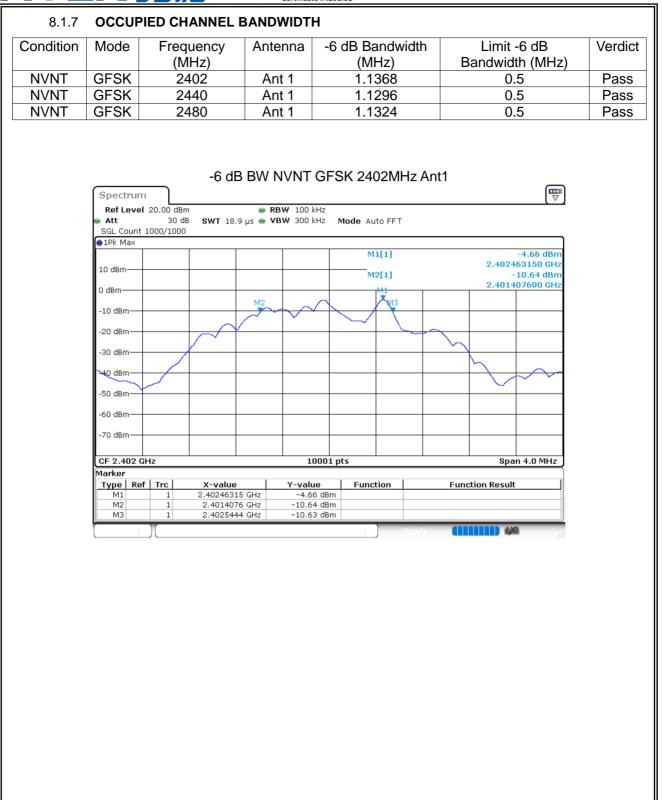


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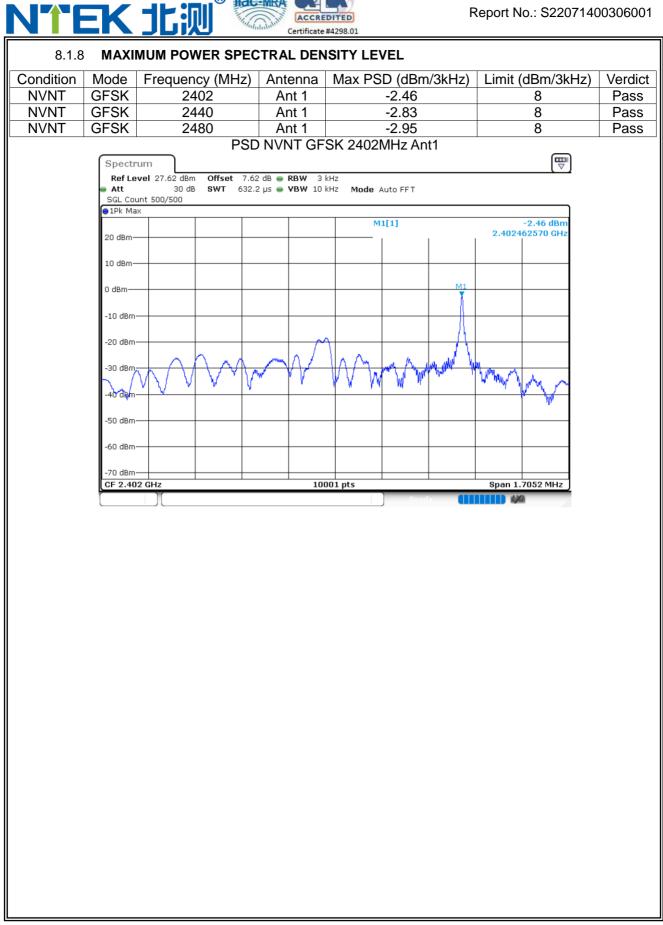
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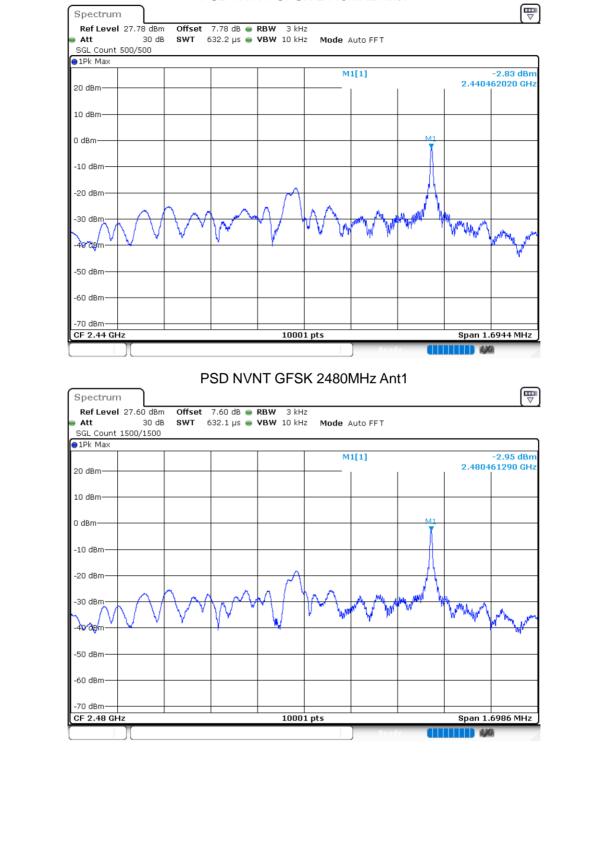




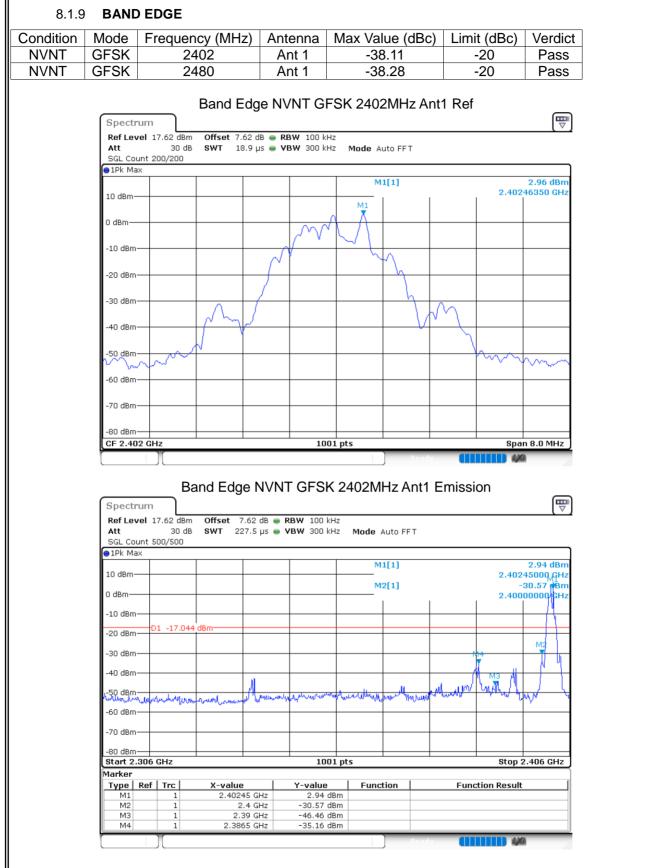
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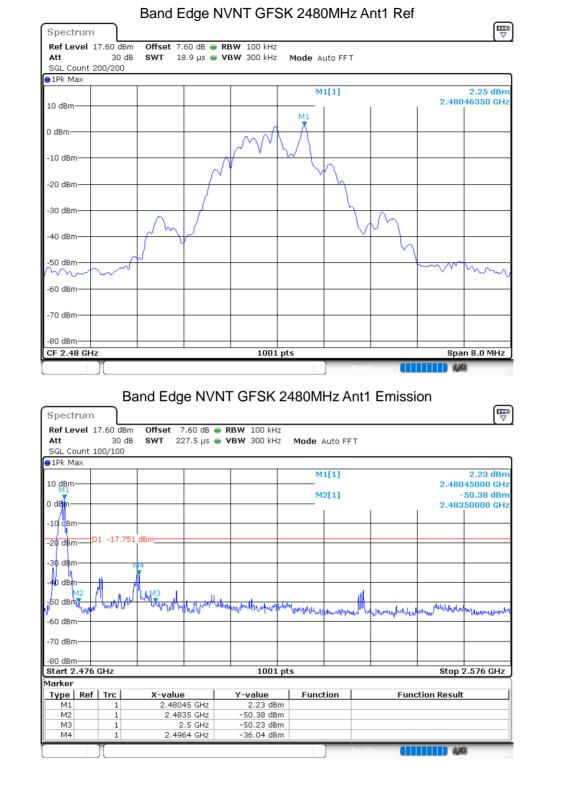








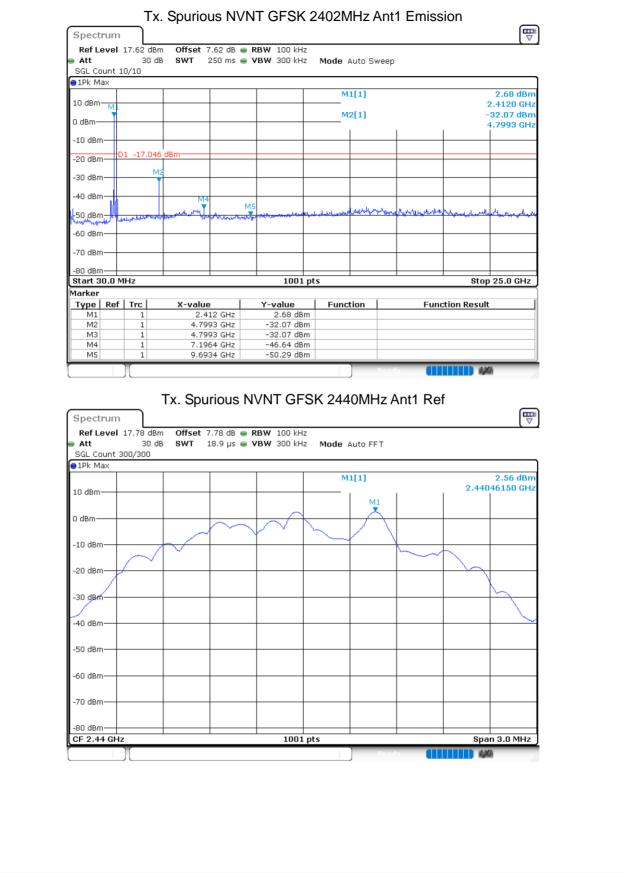




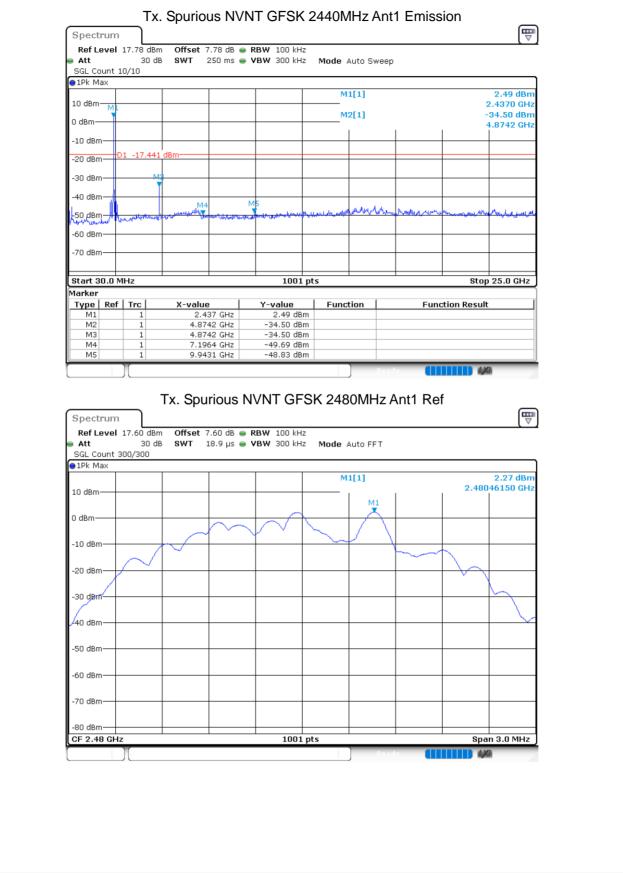


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Spectrum	``۲	<. Spurious			21001					₽
Ref Level 🔅	17.60 dB	m Offset 7.60	dB 😑	RBW 100 kHz						
Att	30 (	dB <b>SWT</b> 250	ms 😑	<b>VBW</b> 300 kHz	Mode /	Auto Sw	/eep			
SGL Count 1	5/15									
●1Pk Max										
					М	1[1]				2.25 dBm
10 dBm										2.4870 GHz
					M	2[1]				-38.06 dBm
0 dBm		+		++						4.9491 GHz
-10 dBm										
-20 dBm	1 -17.72	6 dBm					_			
-30 dBm		MB		++						
-40 dBm		M4								
		and week 🖷		MS Value on the ball-well		www.h	Mary A.	mound	Munder work	Hall a transformed and a state
L50,dBm	Jand the April of	and and and a	horn	A souther a second						
-60 dBm				_						
-70 dBm										
-80 dBm										
Start 30.0 M	Hz			1001	pts				Sto	p 25.0 GHz
Marker										
Type Ref	Trc	X-value		Y-value	Func	tion		Fun	ction Resu	lt
M1	1	2.487 (		2.25 dBn						
M2	1	4.9491 GHz		-38.06 dBn						
MЗ	1	4.9491 GHz		-38.06 dBn						
M4				-49.33 dBn						
M5	1	10.0929 (	GHz	-50.07 dBn	ו					

END OF REPORT