

FCC RADIO TEST REPORT FCC ID: 2AUVWPB629

Product: Verse Trade Mark: PocketBook Model No.: PB629 Family Model: N/A Report No.: S23040300706001 Issue Date: Aug 01, 2023

Prepared for

Pocketbook International SA.

Crocicchio Cortogna 6, 6900, Lugano, Switzerland

Prepared by

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





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1 TEST RESULT CERTIFICATION

	Γ					
Applicant's name:	Pocketbook International SA.					
Address	Crocicchio Cortogna 6, 6	900, Lugano, Switzerland				
Manufacturer's Name	Pocketbook International	SA.				
Address:	Crocicchio Cortogna 6, 6	900, Lugano, Switzerland				
Product description						
Product name:	Verse					
Model and/or type reference:	PB629					
Family Model	N/A					
Sample number	S230403007007					
Measurement Procedure Used:						
APPLICABLE STANDARDS						
APPLICABLE STANDARD/	TEST PROCEDURE	TEST RESULT				

FCC 47 CFR Part 2, Subpart J 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	:	Jun 19, 2023 ~ Aug 01, 2023
Testing Engineer	:	Johan Lin
		(Allen Liu)
Authorized Signatory	:	Alex
		(Alex Li)



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

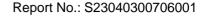
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Remark:

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

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

3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.







3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
	Shenzhen, Guangdong, 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

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Report No.: S23040300706001

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	Verse					
Trade Mark	PocketBook					
FCC ID	2AUVWPB629					
Model No.	PB629					
Family Model	N/A					
Model Difference	N/A					
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20);					
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;					
Number of Channels	11 channels for 802.11b/g/11n(HT20);					
Antenna Type	Chip Antenna					
Antenna Gain	1.8dBi					
Adapter	N/A					
Battery	DC 3.7V, 1500mAh					
Power supply	DC 3.7V from battery or DC 5V from USB Port.					
Hardware version:	v. 1.0					
Firmware version:	U629.6.8.xxx					

Note: 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.	Report No. Version Description Issued Date								
S23040300706001	Rev.01	Initial issue of report	Aug 01, 2023						

5 DESCRIPTION OF TEST MODES

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

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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 (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0;) 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 Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20):

Channel	Frequency(MHz)
1	2412
2	2417
5	2432
6	2437
10	2457
11	2462

Note: fc=2412MHz+(k-1)×5MHz k=1 to 11

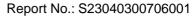
EUT built-in battery-powered, the battery is fully-charged.





est Mode:				
Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
	11b/CCK	1 Mbps	1/6/11	1
Maximum Conducted Output	11g/BPSK	6 Mbps	1/6/11	1
Power	11n HT20	MCS0	1/6/11	1
Power Spectral Density	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above	11b/CCK	1 Mbps	1/6/11	1
1GHz	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1

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	C-1		AC PLUG	
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Cases				
C-2	т			
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6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals

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

Notes:

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

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

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Radiation& Conducted Test equipment

		estequipment					
Item	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	2023.06.15	2024.06.14	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.08	2023.11.07	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.06.15	2024.06.14	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.08	2023.11.07	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.11.08	2023.11.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2022.11.08	2023.11.07	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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





AC 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.

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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

Fraguanov (MHz)	Conducted	d 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

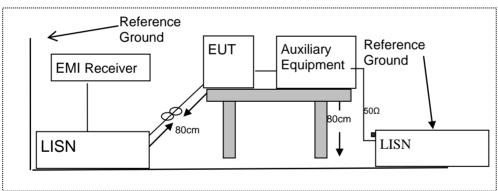
2. The lower limit shall apply at the transition frequencies

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.





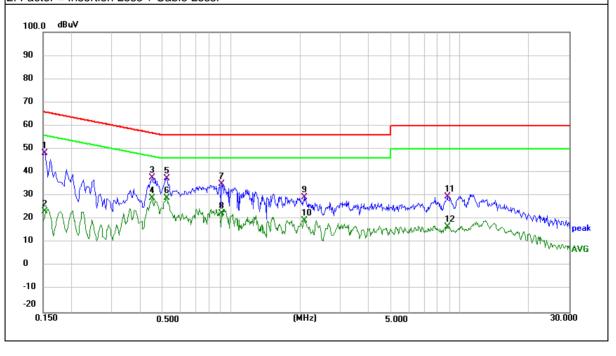
7.1.6 Test Results

EUT:	Verse	Model Name :	PB629
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	38.35	9.90	48.25	65.79	-17.54	QP
0.1539	13.60	9.90	23.50	55.79	-32.29	AVG
0.4500	27.33	10.56	37.89	56.88	-18.99	QP
0.4500	18.58	10.56	29.14	46.88	-17.74	AVG
0.5220	26.74	10.70	37.44	56.00	-18.56	QP
0.5220	18.38	10.70	29.08	46.00	-16.92	AVG
0.9060	23.48	11.50	34.98	56.00	-21.02	QP
0.9060	10.83	11.50	22.33	46.00	-23.67	AVG
2.0980	19.66	9.69	29.35	56.00	-26.65	QP
2.0980	9.63	9.69	19.32	46.00	-26.68	AVG
8.8020	19.62	9.90	29.52	60.00	-30.48	QP
8.8020	6.72	9.90	16.62	50.00	-33.38	AVG

Remark:

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



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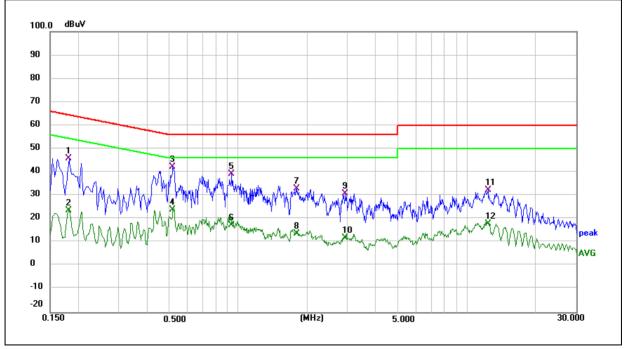
EUT:	Verse	Model Name :	PB629
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	35.72	10.00	45.72	64.40	-18.68	QP
0.1819	13.79	10.00	23.79	54.40	-30.61	AVG
0.5180	31.59	10.70	42.29	56.00	-13.71	QP
0.5180	13.18	10.70	23.88	46.00	-22.12	AVG
0.9380	27.55	11.57	39.12	56.00	-16.88	QP
0.9380	5.88	11.57	17.45	46.00	-28.55	AVG
1.8020	19.70	13.27	32.97	56.00	-23.03	QP
1.8020	0.51	13.27	13.78	46.00	-32.22	AVG
2.9420	21.29	9.69	30.98	56.00	-25.02	QP
2.9420	2.37	9.69	12.06	46.00	-33.94	AVG
12.3220	22.35	9.97	32.32	60.00	-27.68	QP
12.3220	7.84	9.97	17.81	50.00	-32.19	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.







7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

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

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

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

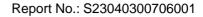
Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

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

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



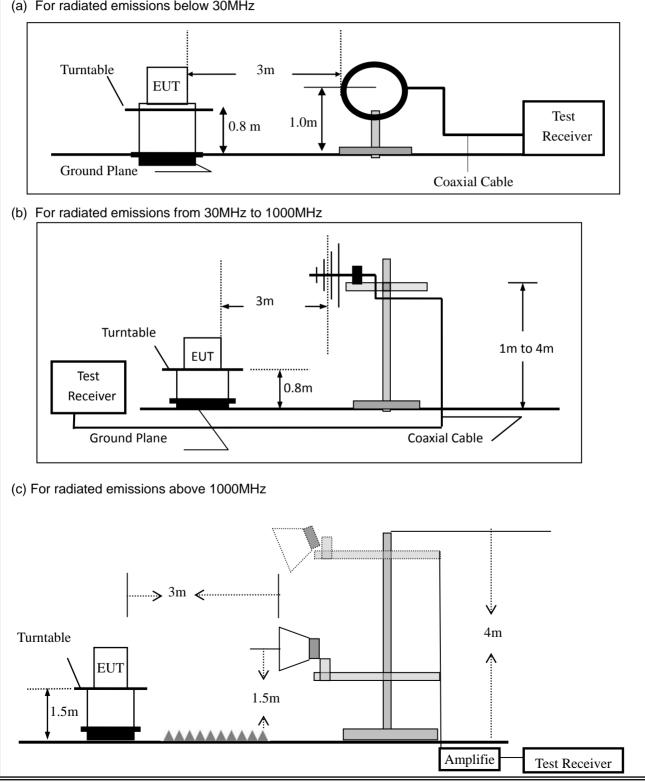


7.2.3 **Measuring Instruments**

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



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7.2.5 Test Procedure

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 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 and frequencies above 1GHz,
- 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: For peak measurement:

Set RBW=120 kHz for f < 1 GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f≥1 GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



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.

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7.2.6 Test Results

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

EUT:	Verse	Model No.:	PB629
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20)	Test By:	Allen Liu

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

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





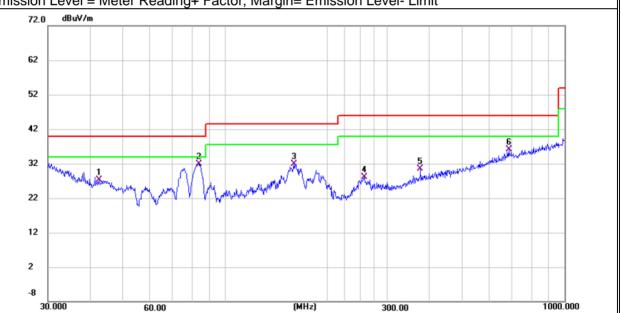
Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

EUT:	Verse	Model Name :	PB629
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	802.11b CH01
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	42.4508	7.61	19.61	27.22	40.00	-12.78	QP
V	83.5222	16.08	15.86	31.94	40.00	-8.06	QP
V	159.2251	13.81	18.11	31.92	43.50	-11.58	QP
V	256.5211	8.91	19.29	28.20	46.00	-17.80	QP
V	375.9385	7.70	22.71	30.41	46.00	-15.59	QP
V	684.7454	8.37	27.70	36.07	46.00	-9.93	QP

Remark:

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





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtomant
Н	47.6586	5.84	16.62	22.46	40.00	-17.54	QP
Н	103.0800	5.71	17.94	23.65	43.50	-19.85	QP
Н	160.9089	9.61	18.01	27.62	43.50	-15.88	QP
Н	286.9823	8.17	20.06	28.23	46.00	-17.77	QP
Н	494.1984	6.74	24.80	31.54	46.00	-14.46	QP
H Remark	776.8778	7.48	29.26	36.74	46.00	-9.26	QP
72.0	n Level = Meter dBuV/m	Reaulity+ Fa	icior, iviargi				
62							
52							-6
42						5	
32	Wheel harvester here here				madded and a strategy	March Martin Martin Parce	
22	Methode and the street of the	where the stranger of the stra	Marine and a start of the sta	Marthand			
12							
2							
-8							

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Report No.: S23040300706001

JT:		Verse			Ν	/lodel No.:		PB629	
mperature:		20 ℃				Relative Humidity: 48%			
est Mode:		802.11b/g	g/n(HT20)		Т	est By:		Allen Liu	
the modula	tion mod	les have t	been teste	d, and th	ie worst i	result was re	eport as	below:	
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 Ch:	annel (2412	2 MHz)(802	2.11b)Above 1	G		
4824.265	63.25	5.21	35.59	44.30	59.75	74.00	-14.25	Pk	Vertical
4824.265	40.44	5.21	35.59	44.30	36.94	54.00	-17.06	AV	Vertical
7236.296	59.83	6.48	36.27	44.60	57.98	74.00	-16.02	Pk	Vertical
7236.296	43.57	6.48	36.27	44.60	41.72	54.00	-12.28	AV	Vertical
4824.414	60.59	5.21	35.55	44.30	57.05	74.00	-16.95	Pk	Horizontal
4824.414	43.13	5.21	35.55	44.30	39.59	54.00	-14.41	AV	Horizontal
7236.428	63.10	6.48	36.27	44.52	61.33	74.00	-12.67	Pk	Horizontal
7236.428	46.92	6.48	36.27	44.52	45.15	54.00	-8.85	AV	Horizontal
			Mid Cha	annel (2437	MHz)(802	.11b)Above 1	G		
4874.312	63.32	5.21	35.66	44.20	59.99	74.00	-14.01	Pk	Vertical
4874.312	42.36	5.21	35.66	44.20	39.03	54.00	-14.97	AV	Vertical
7311.227	59.68	7.10	36.50	44.43	58.85	74.00	-15.15	Pk	Vertical
7311.227	47.31	7.10	36.50	44.43	46.48	54.00	-7.52	AV	Vertical
4874.529	61.07	5.21	35.66	44.20	57.74	74.00	-16.26	Pk	Horizontal
4874.529	48.32	5.21	35.66	44.20	44.99	54.00	-9.01	AV	Horizontal
7311.313	59.47	7.10	36.50	44.43	58.64	74.00	-15.36	Pk	Horizontal
7311.313	41.88	7.10	36.50	44.43	41.05	54.00	-12.95	AV	Horizontal
			High Ch	annel (2462	2 MHz)(802	2.11b)Above 2	1G		
4924.102	65.84	5.21	35.52	44.21	62.36	74.00	-11.64	Pk	Vertical
4924.102	43.03	5.21	35.52	44.21	39.55	54.00	-14.45	AV	Vertical
7386.425	61.00	7.10	36.53	44.60	60.03	74.00	-13.97	Pk	Vertical
7386.425	44.41	7.10	36.53	44.60	43.44	54.00	-10.56	AV	Vertical
4924.066	66.55	5.21	35.52	44.21	63.07	74.00	-10.93	Pk	Horizontal
4924.066	47.07	5.21	35.52	44.21	43.59	54.00	-10.41	AV	Horizontal
7386.198	60.68	7.10	36.53	44.60	59.71	74.00	-14.29	Pk	Horizontal
7386.198	44.72	7.10	36.53	44.60	43.75	54.00	-10.25	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

(3)"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.





■ Spurious Emission in Restricted Band 2310MHz -18000MHz All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре		
	802.11b									
2310.00	58.09	2.97	27.80	43.80	45.06	74	-28.94	Pk	Horizontal	
2310.00	43.08	2.97	27.80	43.80	30.05	54	-23.95	AV	Horizontal	
2310.00	58.30	2.97	27.80	43.80	45.27	74	-28.73	Pk	Vertical	
2310.00	42.07	2.97	27.80	43.80	29.04	54	-24.96	AV	Vertical	
2390.00	57.76	3.14	27.21	43.80	44.31	74	-29.69	Pk	Vertical	
2390.00	41.60	3.14	27.21	43.80	28.15	54	-25.85	AV	Vertical	
2390.00	57.03	3.14	27.21	43.80	43.58	74	-30.42	Pk	Horizontal	
2390.00	41.33	3.14	27.21	43.80	27.88	54	-26.12	AV	Horizontal	
2483.50	57.87	3.58	27.70	44.00	45.15	74	-28.85	Pk	Vertical	
2483.50	43.35	3.58	27.70	44.00	30.63	54	-23.37	AV	Vertical	
2483.50	58.50	3.58	27.70	44.00	45.78	74	-28.22	Pk	Horizontal	
2483.50	41.39	3.58	27.70	44.00	28.67	54	-25.33	AV	Horizontal	
	802.11g									
2310.00	59.05	2.97	27.80	43.80	46.02	74	-27.98	Pk	Horizontal	
2310.00	44.38	2.97	27.80	43.80	31.35	54	-22.65	AV	Horizontal	
2310.00	56.43	2.97	27.80	43.80	43.40	74	-30.60	Pk	Vertical	
2310.00	43.05	2.97	27.80	43.80	30.02	54	-23.98	AV	Vertical	
2390.00	57.96	3.14	27.21	43.80	44.51	74	-29.49	Pk	Vertical	
2390.00	41.82	3.14	27.21	43.80	28.37	54	-25.63	AV	Vertical	
2390.00	58.04	3.14	27.21	43.80	44.59	74	-29.41	Pk	Horizontal	
2390.00	43.75	3.14	27.21	43.80	30.30	54	-23.70	AV	Horizontal	
2483.50	59.05	3.58	27.70	44.00	46.33	74	-27.67	Pk	Vertical	
2483.50	43.79	3.58	27.70	44.00	31.07	54	-22.93	AV	Vertical	
2483.50	58.42	3.58	27.70	44.00	45.70	74	-28.30	Pk	Horizontal	
2483.50	41.69	3.58	27.70	44.00	28.97	54	-25.03	AV	Horizontal	
		T	r	802.	11n20			r	0	
2310.00	58.11	2.97	27.80	43.80	45.08	74	-28.92	Pk	Horizontal	
2310.00	44.21	2.97	27.80	43.80	31.18	54	-22.82	AV	Horizontal	
2310.00	59.20	2.97	27.80	43.80	46.17	74	-27.83	Pk	Vertical	
2310.00	42.49	2.97	27.80	43.80	29.46	54	-24.54	AV	Vertical	
2390.00	58.26	3.14	27.21	43.80	44.81	74	-29.19	Pk	Vertical	
2390.00	41.66	3.14	27.21	43.80	28.21	54	-25.79	AV	Vertical	
2390.00	56.51	3.14	27.21	43.80	43.06	74	-30.94	Pk	Horizontal	
2390.00	42.27	3.14	27.21	43.80	28.82	54	-25.18	AV	Horizontal	
2483.50	58.11	3.58	27.70	44.00	45.39	74	-28.61	Pk	Vertical	
2483.50	42.69	3.58	27.70	44.00	29.97	54	-24.03	AV	Vertical	
2483.50	58.43	3.58	27.70	44.00	45.71	74	-28.29	Pk	Horizontal	
2483.50	42.65	3.58	27.70	44.00	29.93	54	-24.07	AV	Horizontal	

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Spurious Emission in Restricted Bands 3260MHz- 18000MHz

All the modulation modes have been tested, the worst result was report as below:

AC-MR

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	60.76	4.04	29.57	44.70	49.67	74	-24.33	Pk	Vertical
3260	55.75	4.04	29.57	44.70	44.66	54	-9.34	AV	Vertical
3260	61.90	4.04	29.57	44.70	50.81	74	-23.19	Pk	Horizontal
3260	57.25	4.04	29.57	44.70	46.16	54	-7.84	AV	Horizontal
3332	64.63	4.26	29.87	44.40	54.36	74	-19.64	Pk	Vertical
3332	54.14	4.26	29.87	44.40	43.87	54	-10.13	AV	Vertical
3332	63.33	4.26	29.87	44.40	53.06	74	-20.94	Pk	Horizontal
3332	52.37	4.26	29.87	44.40	42.10	54	-11.90	AV	Horizontal
17797	43.44	10.99	43.95	43.50	54.88	74	-19.12	Pk	Vertical
17797	32.49	10.99	43.95	43.50	43.93	54	-10.07	AV	Vertical
17788	43.67	11.81	43.69	44.60	54.57	74	-19.43	Pk	Horizontal
17788	31.88	11.81	43.69	44.60	42.78	54	-11.22	AV	Horizontal

"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.



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: Span = the frequency band of operation RBW = 100KHz VBW \ge 3*RBW Sweep = auto Detector function = peak Trace = max hold



7.3.6 Test Results

EUT:	Verse	Model No.:	PB629
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu

Test data reference attachment.



7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 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

a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

b) 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:

1) Set the center frequency of the instrument to the center frequency of the transmission.

2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.

3) Set VBW \geq RBW. Set detector = peak or average.

4) 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 the duty cycle shall not be used if T \leq 16.7 us.)

Measure T_{total} and T_{on}

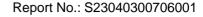
Calculate Duty Cycle = T_{on} / T_{total}

7.4.6 Test Results

EUT:	Verse	Model No.:	PB629
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu

Test data reference attachment.





7.5 MAXIMUM 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 8.3.2.3.

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Conformance Limit 7.5.2

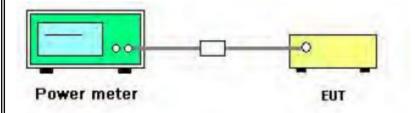
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be 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 following table is the setting of the power meter.

Power meter parameter	Setting
Detector	PK

7.5.4 **Test Setup**



7.5.5 **Test Procedure**

The testing follows Measurement Procedure Subclause 11.9.1.3 of ANSI C63.10

EUT operation during Test 7.5.6

The EUT was programmed to be in continuously transmitting mode.



7.5.7 Test Results

EUT:	Verse	Model No.:	PB629
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu

Test data reference attachment.



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.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the 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:	Verse	Model No.:	PB629
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu

Test data reference attachment.





7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

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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:	Verse	Model No.:	PB629
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Allen Liu

Test data reference attachment.



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. 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.

Test data reference attachment.



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: 1.8dBi). It comply with the standard requirement.





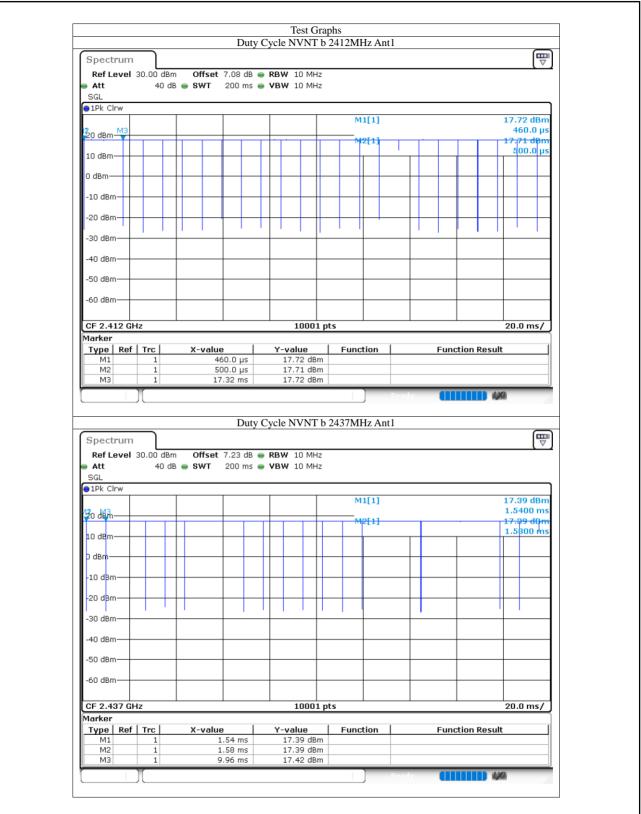
8 TEST RESULTS

8.1 DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)
NVNT	b	2412	Ant1	99.7
NVNT	b	2437	Ant1	99.83
NVNT	b	2462	Ant1	99.77
NVNT	g	2412	Ant1	98.01
NVNT	g	2437	Ant1	98.09
NVNT	g	2462	Ant1	98.09
NVNT	n20	2412	Ant1	98.01
NVNT	n20	2437	Ant1	98.03
NVNT	n20	2462	Ant1	98.04

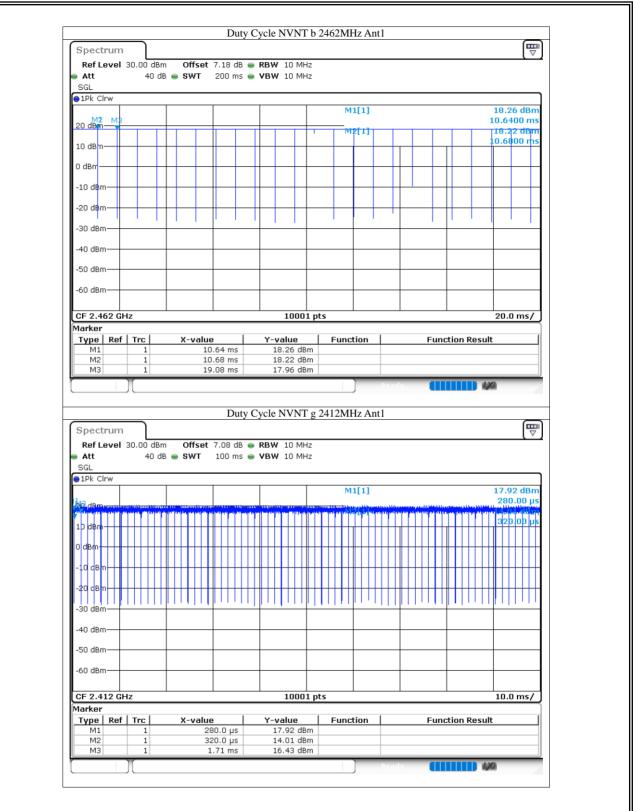






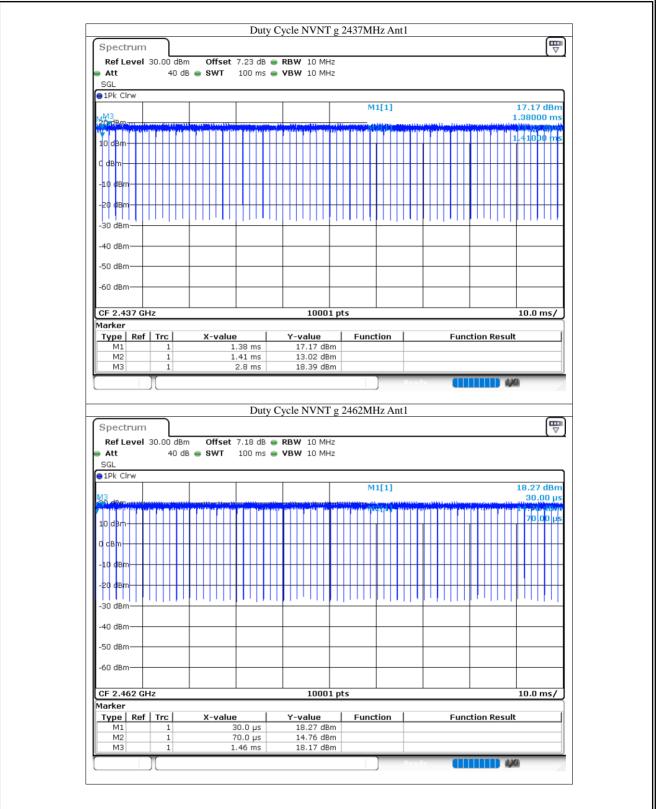






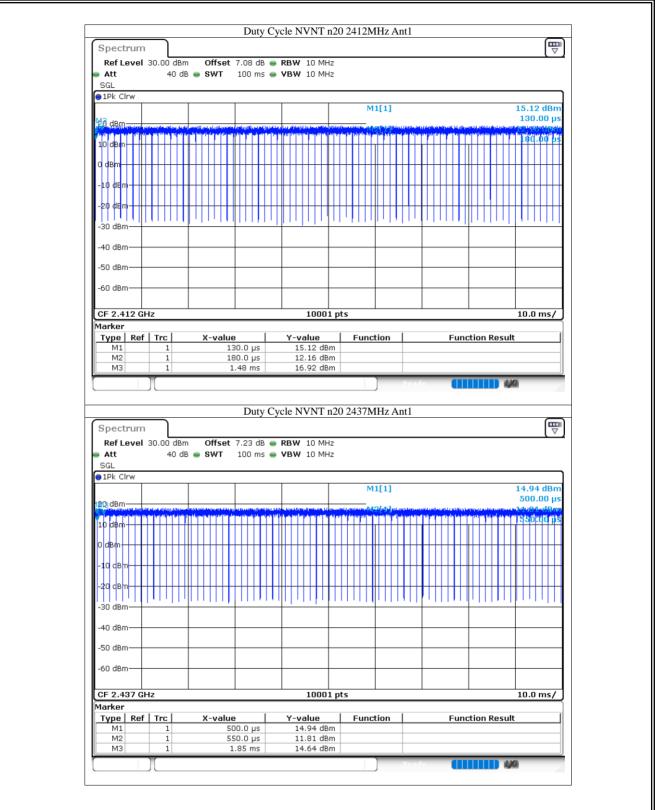






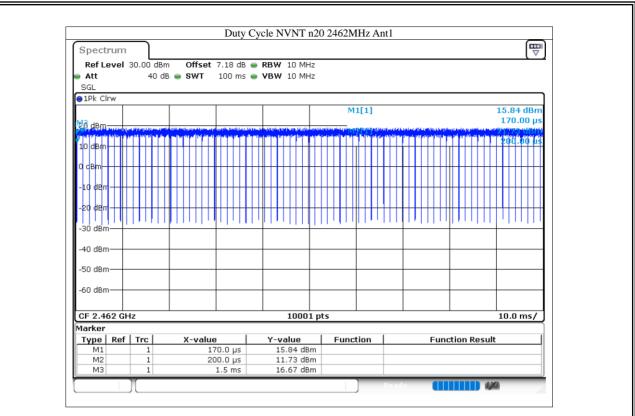












8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.1	30	Pass
NVNT	b	2437	Ant1	14.12	30	Pass
NVNT	b	2462	Ant1	15.27	30	Pass
NVNT	g	2412	Ant1	11.62	30	Pass
NVNT	g	2437	Ant1	10.92	30	Pass
NVNT	g	2462	Ant1	10.66	30	Pass
NVNT	n20	2412	Ant1	12.55	30	Pass
NVNT	n20	2437	Ant1	11.81	30	Pass
NVNT	n20	2462	Ant1	11.68	30	Pass



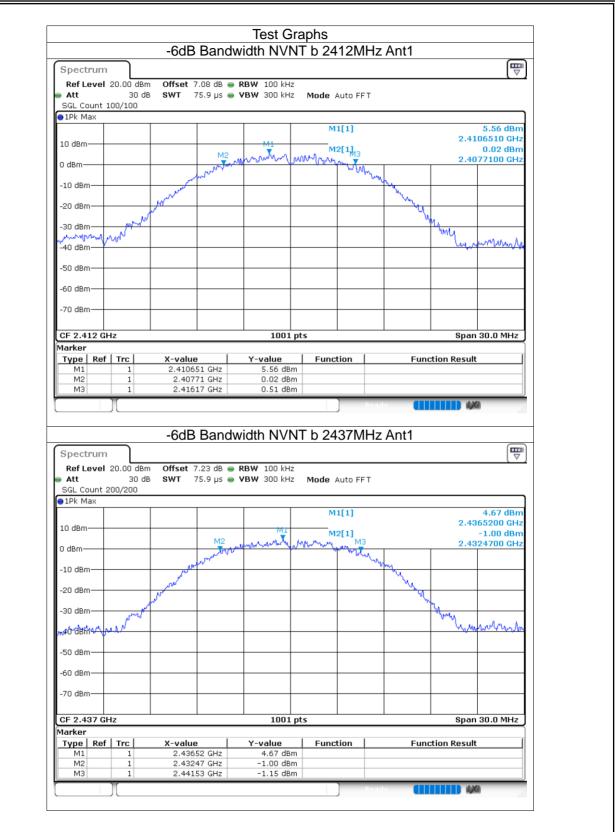


8.3 -6DB BANDWIDTH

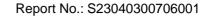
0.3 -001						
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.46	0.5	Pass
NVNT	b	2437	Ant1	9.06	0.5	Pass
NVNT	b	2462	Ant1	7.71	0.5	Pass
NVNT	g	2412	Ant1	16.464	0.5	Pass
NVNT	g	2437	Ant1	16.422	0.5	Pass
NVNT	g	2462	Ant1	16.443	0.5	Pass
NVNT	n20	2412	Ant1	17.706	0.5	Pass
NVNT	n20	2437	Ant1	17.697	0.5	Pass
NVNT	n20	2462	Ant1	17.631	0.5	Pass

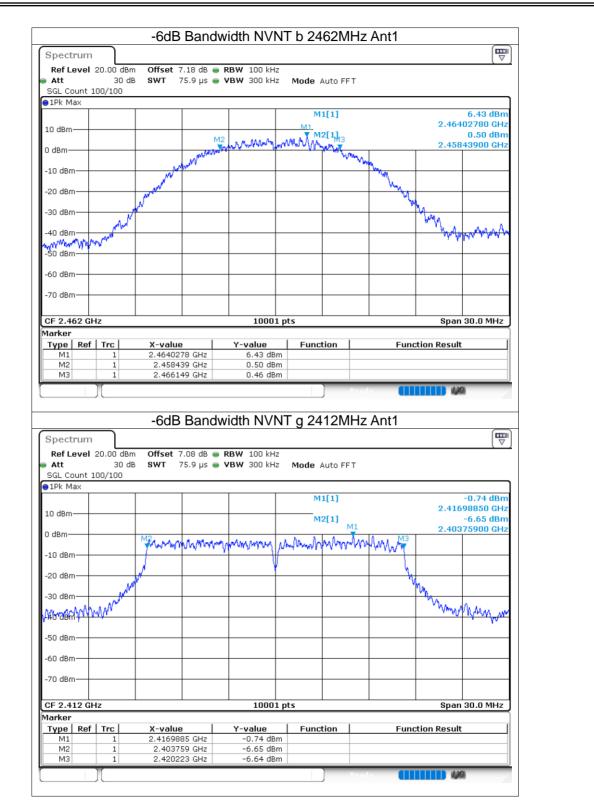












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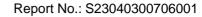


Spectru	ım										
Ref Lev		.0.00 dB	m Offset	7.08 dB 🧉	• RBW 100 kH	z				(v	2
Att 🗧		30 0	ib SWT	75.9 µs 🧉	VBW 300 kH	iz Mode A	Auto FFT				
SGL Cour		10/100									
●1Pk Max	_						1[1]			0.51 dBm	
						[INI.	1[1]		2.40	-0.51 dBm 857430 GHz	
10 dBm—						M	2[1]			-6.45 dBm	
0 dBm	_		100		M1				2.40	316200 GHz	
			The way way	MAAAAA	montry	Awarm	mar all have	Munnulli	p		
-10 dBm—											
-20 dBm—	_		,						<u> </u>		
		AN AN	*						"h		
-30 dBm- ////////////////////////////////////	What	MM.							Mm	Manhan	
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-50 dBm—				1							
-60 dBm—	_										
-70 dBm—				1							
05.6.11-						L					
CF 2.412	GH	Z			1000	1 pts			Spai	n 30.0 MHz	
Marker Type R	ef I	Tre	X-valı	ie I	Y-value	Funct	tion 1	Fund	tion Resul	t I	
M1		1		743 GHz	-0.51 dB			- and			
M2		1		162 GHz	-6.45 dB						
M3	_	1	2.420	868 GHZ	-6.45 dB	sm					
	IJ						D o o				
		_	-6dB	Bandw	vidth NVN	T n20 2	437MF	Iz Ant1			
Spectru							437MF	Iz Ant1			
Spectru Ref Lev Att		0.00 dB	m Offset	7.23 dB 🧉	VIDT NVN	Iz		Iz Ant1]
Ref Lev Att SGL Cour	el 2 nt 10	30 0	m Offset	7.23 dB 🧉	• RBW 100 kH	Iz		Iz Ant1]
Ref Lev Att	el 2 nt 10	30 0	m Offset	7.23 dB 🧉	• RBW 100 kH	iz Iz Mode A	Auto FFT	Iz Ant1		(\	
Ref Lev Att SGL Cour	el 2 nt 10	30 0	m Offset	7.23 dB 🧉	• RBW 100 kH	iz Iz Mode A		Iz Ant1	244	-0.43 dBm]
Ref Lev Att SGL Cour	el 2 nt 10	30 0	m Offset	7.23 dB 🧉	• RBW 100 kH	iz Iz Mode A M:	Auto FFT 1[1] 2[1]	Hz Ant1	2.44	(\	
Ref Lev Att SGL Cour 1Pk Max	el 2 nt 10	30 0	m Offset IB SWT	7.23 dB 75.9 μs	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	Hz Ant1		-0.43 dBm 197350 GHz	
Ref Lev Att SGL Cour PR Max 10 dBm 0 dBm	el 2 nt 10	30 0	m Offset IB SWT	7.23 dB 75.9 μs	• RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	Hz Ant1		-0.43 dBm 197350 GHz -6.24 dBm	
Ref Lev Att SGL Cour 1Pk Max	el 2 nt 10	30 0	m Offset IB SWT	7.23 dB 75.9 μs	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M		-0.43 dBm 197350 GHz -6.24 dBm]
Ref Lev Att SGL Cour 1Pk Max 10 dBm- 0 dBm- -10 dBm-	el 2 nt 10	30 0	m Offset IB SWT	7.23 dB 75.9 μs	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M		-0.43 dBm 197350 GHz -6.24 dBm	
Ref Lev Att SGL Cour 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm-	el 2 nt 10	30 0	m Offset IB SWT	7.23 dB 75.9 μs	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 1Pk Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB 75.9 μs	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 1Pk Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm	
Ref Lev Att SGL Cour PIPK Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 1Pk Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 1Pk Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour PIPK Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 1Pk Max 10 dBm	el 2	30 0	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ IZ Mode A M: M:	Auto FFT 1[1] 2[1] M1	al. M	2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 9 1Pk Max 10 dBm		30 (00/100	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH VBW 300 kH	IZ Mode A	Auto FFT 1[1] 2[1] M1	al. M	2.421	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 9 1Pk Max 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm		30 (00/100	m Offset IB SWT	7.23 dB е 75.9 µs е	RBW 100 kH	IZ Mode A	Auto FFT 1[1] 2[1] M1	al. M	2.421	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 10 dBm	el 2	30 0 10/100 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	m Offset IB SWT	7.23 dB 75.9 µs	RBW 100 kH VBW 300 kH Mmmm/MM 1000	Iz Mode A	Auto FFT [[1] 2[1] M1 Auto Anton Anton		2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 9 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm Type	el 2	30 c 10/100	m Offset IB SWT	7.23 dB 75.9 µs МҮМ/М/М/	RBW 100 kH VBW 300 kH MMmm/MM 1000 1000 Y-value	Iz Mode A	Auto FFT [[1] 2[1] M1 Auto Anton Anton		2.421	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour 10 dBm	el 2	30 0 10/100 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	M2 Month M2	7.23 dB 75.9 µs	RBW 100 kH VBW 300 kH Mmmm/MM 1000	12 Mode A	Auto FFT [[1] 2[1] M1 Auto Anton Anton		2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	
Ref Lev Att SGL Cour SGL Cour 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Type Mathew	el 2	30 c 10/100	m Offset B SWT	7.23 dB 75.9 µs	RBW 100 kH VBW 300 kH VBW 300 kH 1000 1000 Y-value -0.43 dE	IZ IZ Mode A	Auto FFT [[1] 2[1] M1 Auto Anton Anton		2.42	-0.43 dBm 197350 GHz -6.24 dBm 816500 GHz	





Spectru	m						₽
	el 20.00 d	iBm Offset 7.18 dB 🖷	DDW 100 kus				(•)
Att		-		Mode Auto FFT			
	t 100/100		1011 300 KHZ	MOUE AUTOFFT			
1Pk Max	,						
				M1[1]			0.06 dBm
10 dBm						2.46	698250 GHz
10 aBm—				M2[1] M1			-5.93 dBm
0 dBm—						2.45	319200 GHz
		WWWWWWWWWWWWWW	Managhan in	mound	MARMIM	1	
-10 dBm—			11	And a mark Ada.	1.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4		
			. I ¥				
-20 dBm—						<u>الــــــــــــــــــــــــــــــــــــ</u>	
	1	m ² 1				m	
-30 dBm—	In ANN					"MA	winhan
<u>464821</u> 0	WVV.					" Ver	"እሳምን" ካኢልጦክህ
10.0011							
-50 dBm—							
-60 dBm—							
-70 dBm—							
CF 2.462	GHz	· ·	10001 pt	s		Spar	1 30.0 MHz
1arker							
Type R	ef Trc	X-value	Y-value	Function	Fund	tion Resul	t 🔤
M1	1	2.4669825 GHz	0.06 dBm				
M2	1	2.453192 GHz	-5.93 dBm				
М3	1	2.470823 GHz	-5.88 dBm				





OCCUPIED CHANNEL BANDWIDTH 8.4

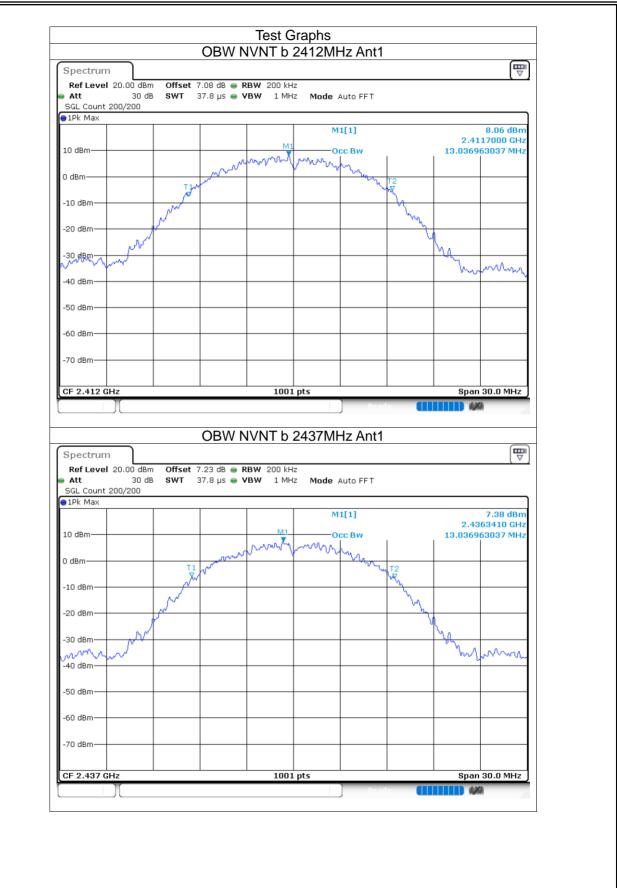
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.037
NVNT	b	2437	Ant1	13.037
NVNT	b	2462	Ant1	12.827
NVNT	g	2412	Ant1	16.48
NVNT	g	2437	Ant1	16.507
NVNT	g	2462	Ant1	16.489
NVNT	n20	2412	Ant1	17.641
NVNT	n20	2437	Ant1	17.728
NVNT	n20	2462	Ant1	17.671

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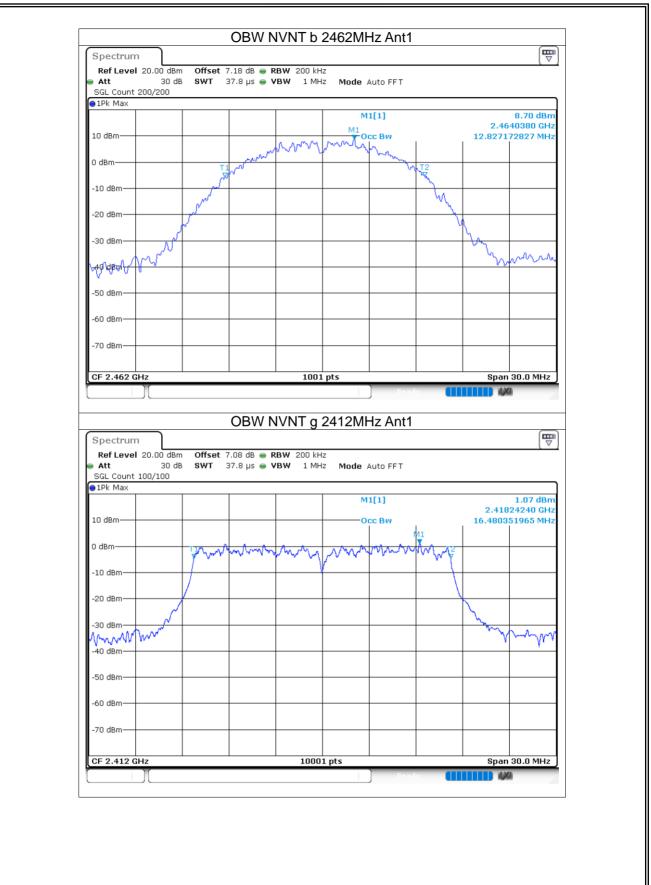






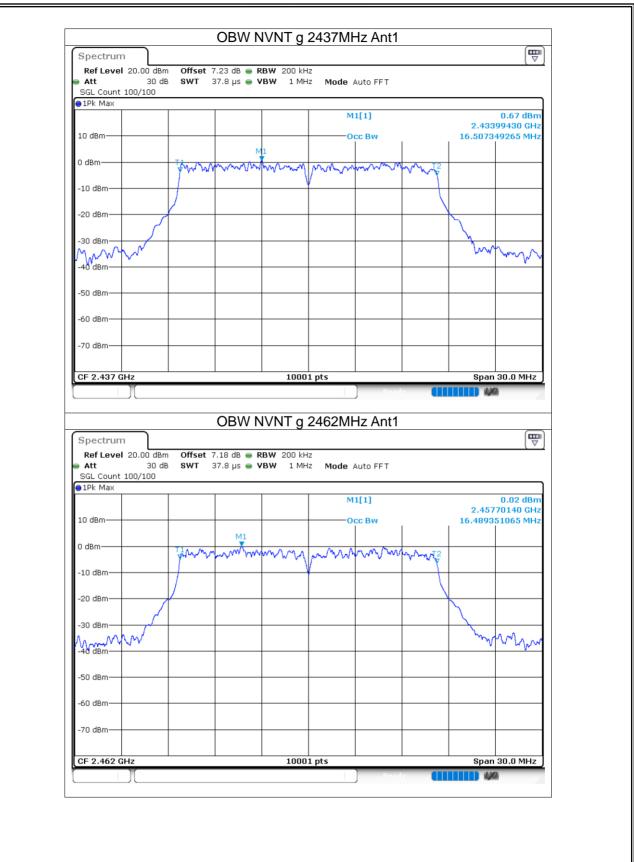






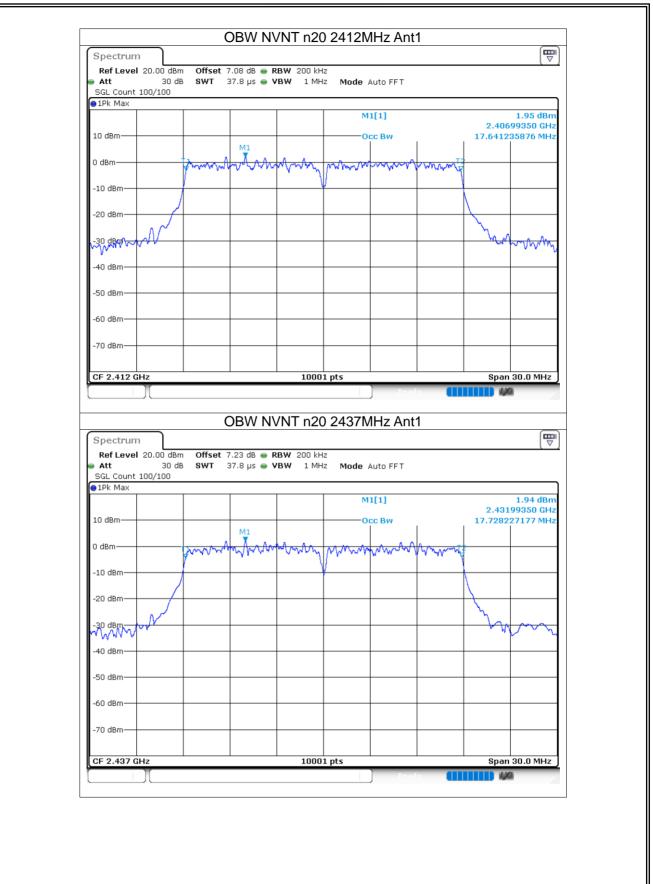
















Spectrum						
Ref Level 20.00	dBm Offse	t 7.18 dB 👄	RBW 200 kHz			(•)
	30 dB SWT	37.8 µs 🖷	VBW 1 MHz	Mode Auto FFT		
SGL Count 100/1	00					
1Pk Max				M1[1]		0.57 dBm
				MILI	2	2.45695750 GHz
10 dBm				Occ Bw		571232877 MHz
		M1				
0 dBm	m	montim	mmmm	mmmm	A MAR A A T	
	7.000				1	
-10 dBm			+ +			
	1					
-20 dBm						
0.01	V					
-30 dBm						mm
mmm						v · · ·
-40 dBm						
-50 dBm						
-50 dBill						
-60 dBm						
-70 dBm						
CF 2.462 GHz			10001	ntc		Span 30.0 MHz
			10001	pts		



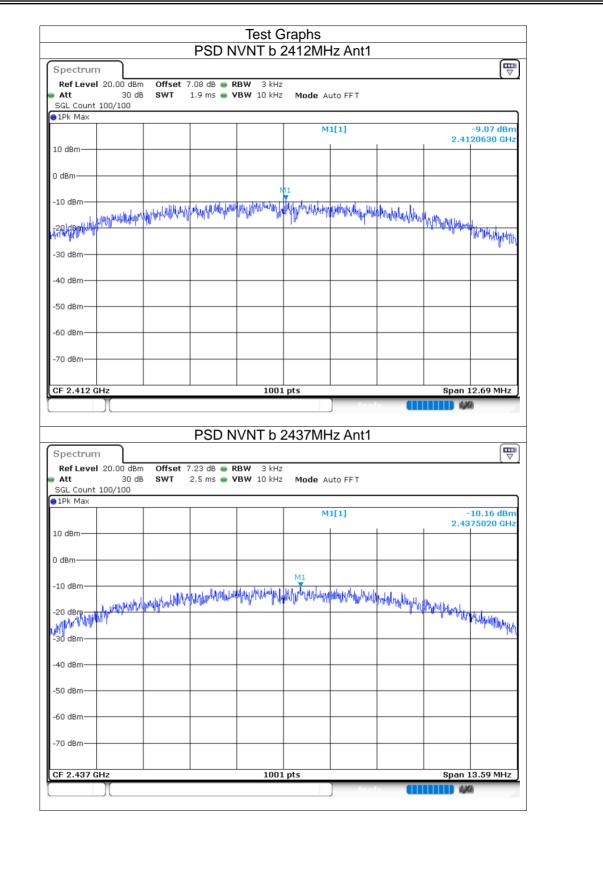
8.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

NTEK 北测[®]

	1 011				•	
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-9.07	8	Pass
NVNT	b	2437	Ant1	-10.16	8	Pass
NVNT	b	2462	Ant1	-8.62	8	Pass
NVNT	g	2412	Ant1	-13.85	8	Pass
NVNT	g	2437	Ant1	-13.76	8	Pass
NVNT	g	2462	Ant1	-14.23	8	Pass
NVNT	n20	2412	Ant1	-14.21	8	Pass
NVNT	n20	2437	Ant1	-14.2	8	Pass
NVNT	n20	2462	Ant1	-14.66	8	Pass







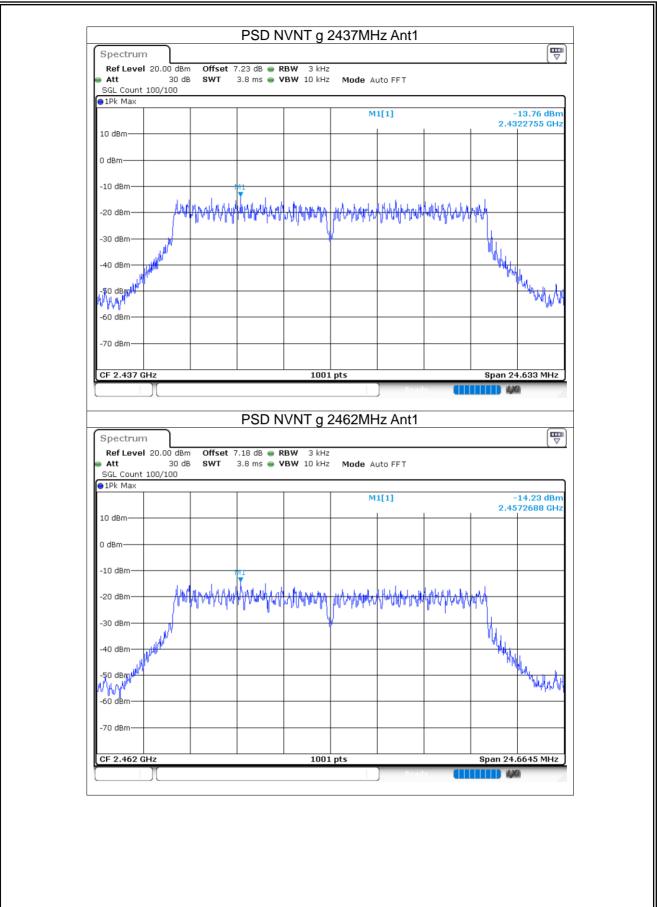




Att SGL Count 1	20.00 dBm 30 dB			RBW 3 kHz VBW 10 kHz		uto FFT			
 1Pk Max 	.00/100								
					M	1[1]		2.4	-8.62 dBm 620695 GHz
10 dBm									
0 dBm									
-10 dBm									
	udinharadana	unhamph	pullity fille gran	herredownline	and the second second	elvanadhrindh	dertydanie tydanie	HANNIN HANN	Hullauren I.
								-	
-30 dBm									
-40 dBm									
50 40-5									
-50 dBm									
-60 dBm									
-70 dBm									
CF 2.462 GH	lz			1001	1 pts		411	Span 1	1.565 MHz
									1
Spectrum Ref Level	20.00 dBm	Offset 7		IVNT g		Hz Ant1			
Ref Level Att SGL Count 1	30 dB		7.08 dB 👄 I	NVNT g 2 RBW 3 kHz VBW 10 kHz	:				
Ref Level Att	30 dB		7.08 dB 👄 I	RBW 3 kHz	: Mode A				-13.85 dBm
Ref Level Att SGL Count 1	30 dB		7.08 dB 👄 I	RBW 3 kHz	: Mode A	uto FFT			X
Ref Level Att SGL Count 1 1Pk Max 10 dBm	30 dB		7.08 dB 👄 I	RBW 3 kHz	: Mode A	uto FFT			-13.85 dBm
Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm	30 dB		7.08 dB 👄 I	RBW 3 kHz	: Mode A	uto FFT			-13.85 dBm
Ref Level Att SGL Count 1 1Pk Max 10 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT			-13.85 dBm
Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm	30 dB 00/100		7.08 dB	RBW 3 kHz	: Mode A	uto FFT			-13.85 dBm
Ref Level Att SGL Count 1 P1Pk Max 10 dBm 0 dBm -10 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT			-13.85 dBm
Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT	- Ayatur		-13.85 dBm
Ref Level Att SGL Count 1 P1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT	- 		- 13.85 dBm 072880 GHz
Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT			-13.85 dBm 072880 GHz
Ref Level Att SGL Count 1 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT			- 13.85 dBm 072880 GHz
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT			- 13.85 dBm 072880 GHz
Ref Level Att SGL Count 1 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	: Mode A	uto FFT			- 13.85 dBm 072880 GHz
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	30 dB 00/100	SWT	7.08 dB	RBW 3 kHz	Mode A	uto FFT			-13.85 dBm 072880 GHz

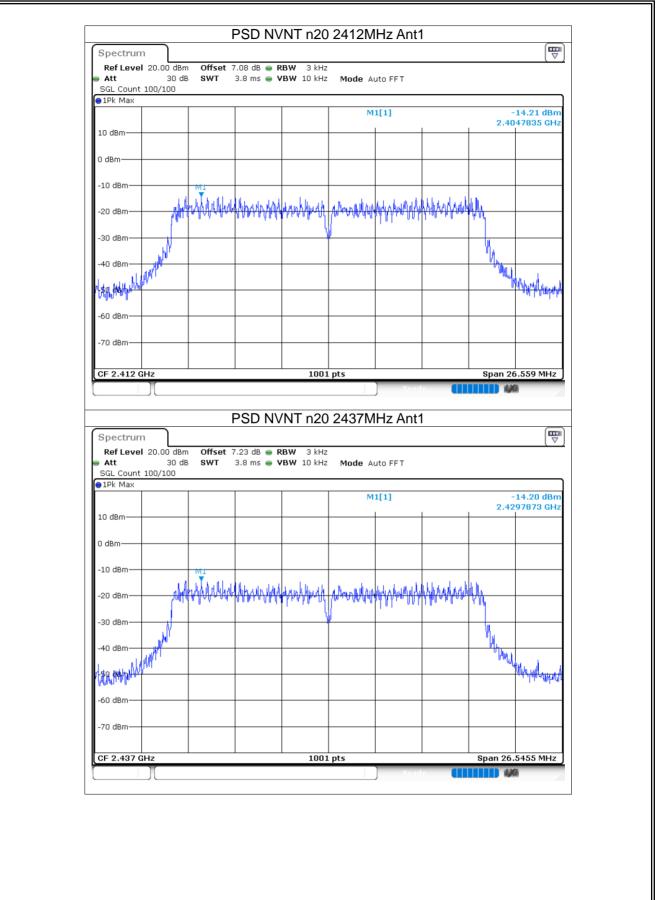






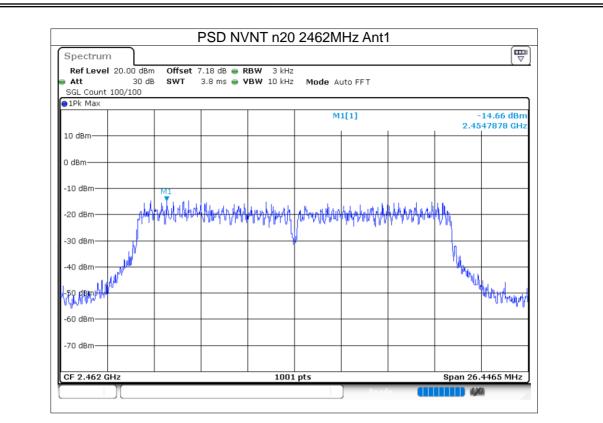












8.6 **BAND EDGE**

NTEK 北测[®]

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.89	-20	Pass
NVNT	b	2462	Ant1	-55.46	-20	Pass
NVNT	g	2412	Ant1	-41.47	-20	Pass
NVNT	g	2462	Ant1	-41.49	-20	Pass
NVNT	n20	2412	Ant1	-38.19	-20	Pass
NVNT	n20	2462	Ant1	-40.74	-20	Pass

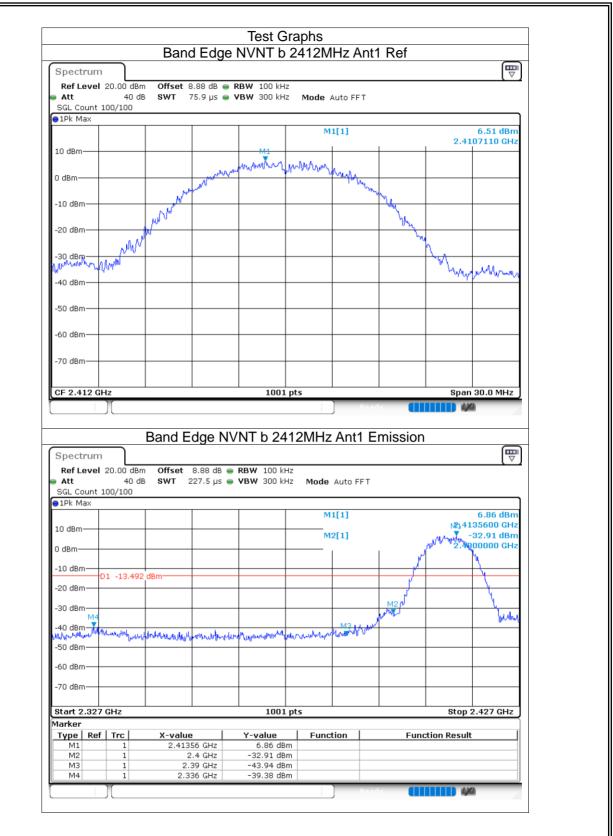
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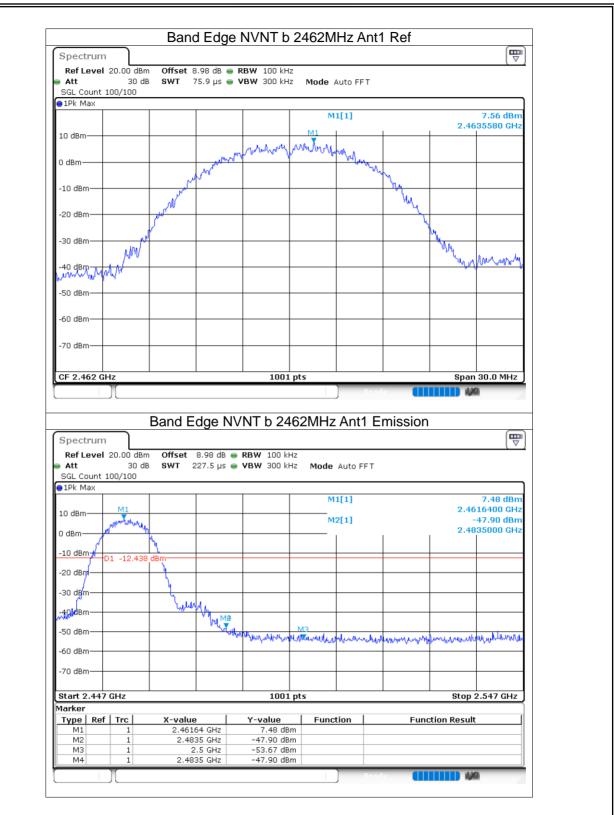






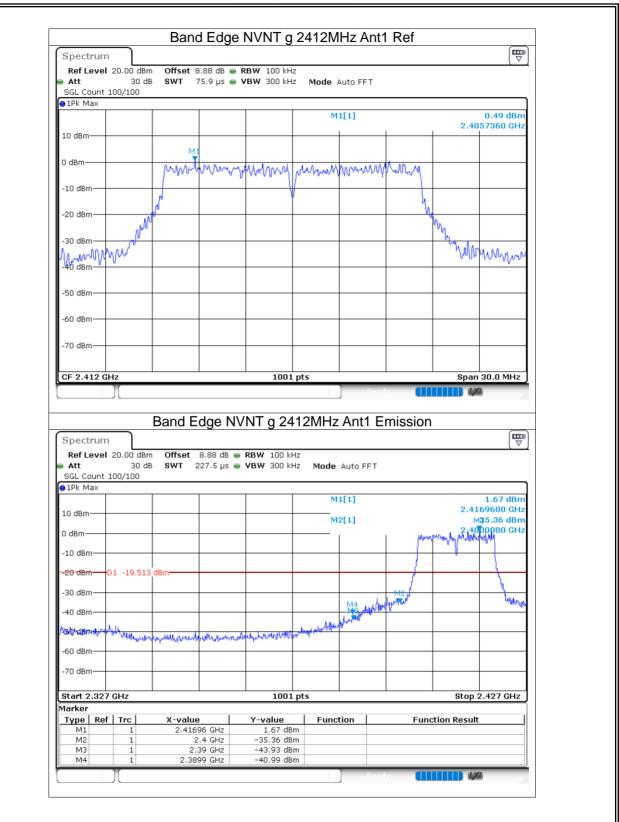






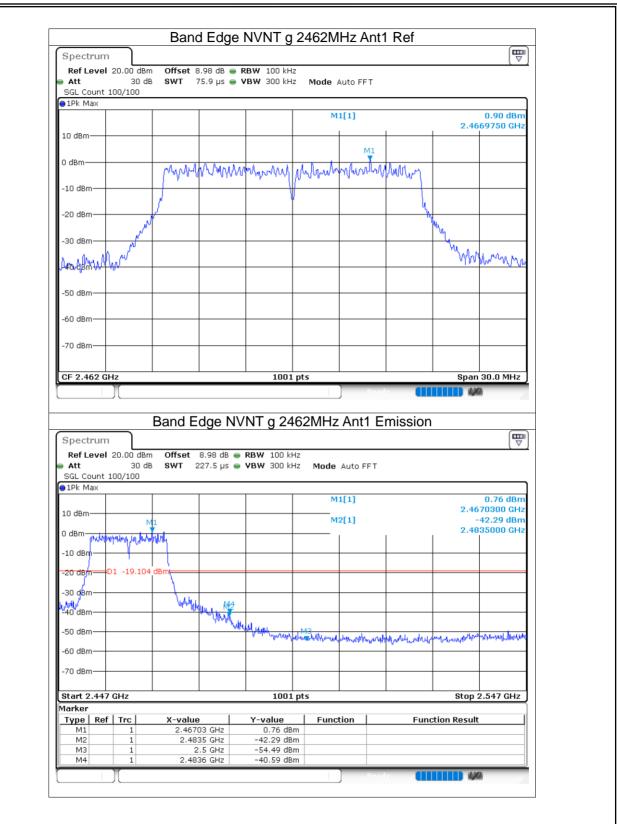












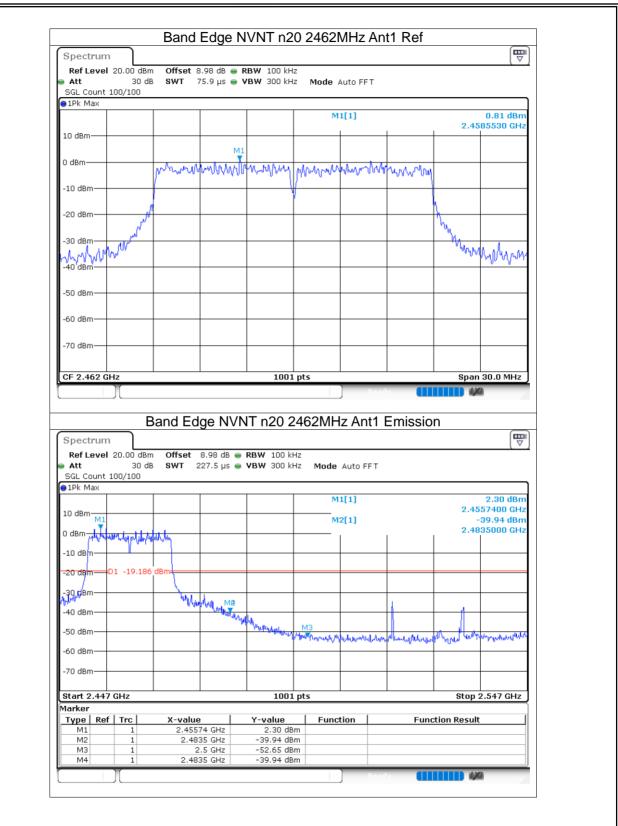


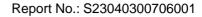


Spectrum			-	IVNT n2					
Ref Level 20).00 dBm	Offset 8	88 dB 👄 🖪	RBW 100 kHz	,				[\vee]
Att	30 dB			/BW 300 kHz		Auto FFT			
SGL Count 100)/100								
●1Pk Max									
					м	1[1]		2.41	1.23 dBm 176040 GHz
10 dBm							l	2.7.	70040 012
						M1			
0 dBm		1.1							
		Matrix	wyywwyw	mannal	production	HANDAN W	mangy		
-10 dBm									
	N			"				A.	
-20 dBm	- 1							N.	
	MM							1 miles	
-30 dBm	pll "							- Math	mm
-30 dBm	v							~ 00	W WYGD
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
CF 2.412 GHz				1001	nts		1	Spar	30.0 MHz
	В	and Edg	ge NVN	IT n20 2	412MH) Rear Iz Ant1	Emissio	n	
Spectrum	B	and Edg	je NVN	IT n20 2	412MH] Rear Iz Ant1	Emissio	n	
-) Read	Emissio	n	
Ref Level 20).00 dBm	Offset 8	3.88 dB 👄	IT n20 2 RBW 100 kH VBW 300 kH	Iz	D Read	Emissio	n	
Ref Level 20 Att SGL Count 100).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	Iz		Emissio	n	
Ref Level 20 Att SGL Count 100).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	iz iz Mode	Auto FFT	Emissio	n	
Ref Level 20 Att SGL Count 100 1Pk Max).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	iz iz Mode		Emissio		2.19 dBm
Ref Level 20 Att SGL Count 100 1Pk Max).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	iz iz Mode M	Auto FFT	Emissio	2.43	
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	iz iz Mode M	Auto FFT		2.43 N	2.19 dBm 169600 GHz
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 0 dBm 0 dBm 0).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	iz iz Mode M	Auto FFT		2.41 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 0 dBm 0 dBm 0).00 dBm 30 dB	Offset 8	3.88 dB 👄	RBW 100 kH	iz iz Mode M	Auto FFT		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm).00 dBm 30 dB	Offset 8 SWT 22	3.88 dB 👄	RBW 100 kH	iz iz Mode M	Auto FFT		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm D1 -20).00 dBm 30 dB)/100	Offset 8 SWT 22	3.88 dB 👄	RBW 100 kH	iz iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Att SGL Count 100 1Pk Max 10 dBm -10 dBm -10 dBm	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm D1 -20	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 0 dBm -10 dBm -10 dBm -20 dBm D1 -30 dBm -40 dBm -40 dBm -40 dBm	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 SGL Count 100 10 IPk Max 10 0 dBm - -10 dBm - -20 dBm D1 -30 dBm - -40 dBm -	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 kH	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	0.00 dBm 30 dB 3/100 -18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	iz Mode M	Auto FFT 1[1] 2[1]		2.43 N	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 IPk Max 10 dBm 0 dBm -10 dBm -10 dBm 01 -30 dBm -01 -40 dBm -01 -70 dBm -01	-18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	Iz Mode	Auto FFT 1[1] 2[1]		2.4: N Why PLIA	2.19 dBm 169600 GHz 133.60 dBm 10000 GHz
Ref Level 20 Att SGL Count 100 3GL Count 100 100 dBm 10 dBm 0 -10 dBm 01 -30 dBm 01 -40 dBm 01 -70 dBm 01 -70 dBm 01 -70 dBm 01	-18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k-	Iz Mode	Auto FFT 1[1] 2[1]		2.4: N Why PLIA	2.19 dBm 169600 GHz 433.60 dBm
Ref Level 20 Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	-18.772	Offset 8 SWT 22	8.88 dB ● 27.5 µs ●	RBW 100 k- YBW 300 k-	iz Mode	Auto FFT 1[1] 2[1] M3 M3	Aru Mart	2.4: N Why PLIA	2.19 dBm 169600 GHz 433.60 dBm 70000 GHz
Ref Level 20 Att SGL Count 100 1Pk Max 100 dBm 10 dBm -00 dBm -10 dBm -00 dBm -20 dBm -01 -300 -40 dBm -60 dBm -70 dBm -60 dBm -70 dBm -700 dBm Type Ref 1 M1 -7 -7 -7	-18.772	Offset 8 SWT 22 dBm dBm <u>www.www.www</u>	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k- 	اع 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] M3 M3	Aru Mart	2.43 2.44 2.44 2.44 2.44 2.44 2.43 2.43	2.19 dBm 169600 GHz 433.60 dBm 70000 GHz
Ref Level 20 Att SGL Count 100 3GL Count 100 10 1Pk Max 0 10 dBm 0 -10 dBm 0 -20 dBm 01 -30 dBm 0 -40 dBm 01 -30 dBm -01 -30 dBm -01 -40 dBm -01 -50 dBm -01 -70 dBm	-18.772	Offset 8 SWT 22 dBm dBm www.www.www www.www.www comparison www.www.www dBm comparison www.www.www comparison www.comparison comparis	8.88 dB ● 27.5 µs ● 	RBW 100 k- VBW 300 k- 	12 12 Mode M M M M M M M M M M M M M	Auto FFT 1[1] 2[1] M3 M3	Aru Mart	2.43 2.44 2.44 2.44 2.44 2.44 2.43 2.43	2.19 dBm 169600 GHz 433.60 dBm 70000 GHz
Ref Level 20 Att SGL Count 100 1Pk Max 10 1Pk Max 10 0 dBm - -10 dBm - -20 dBm D1 -30 dBm - -40 dBm - -60 dBm - -70 dBm - -70 dBm - Type Ref	-18.772	Offset 8 SWT 22 dBm dBm <u>v</u> v v v v v v v v v v v v v v v v v v	8.88 dB ● 27.5 µs ●	RBW 100 k- VBW 300 k- 	12 Mode M M M M M M M M M M M M M	Auto FFT 1[1] 2[1] M3 M3	Aru Mart	2.43 2.44 2.44 2.44 2.44 2.44 2.43 2.43	2.19 dBm 169600 GHz 433.60 dBm 70000 GHz











NTEK 北测[®]

8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-38.12	-20	Pass
NVNT	b	2437	Ant1	-37.3	-20	Pass
NVNT	b	2462	Ant1	-47.17	-20	Pass
NVNT	g	2412	Ant1	-45.68	-20	Pass
NVNT	g	2437	Ant1	-46.4	-20	Pass
NVNT	g	2462	Ant1	-44.14	-20	Pass
NVNT	n20	2412	Ant1	-39.63	-20	Pass
NVNT	n20	2437	Ant1	-46.64	-20	Pass
NVNT	n20	2462	Ant1	-46.33	-20	Pass

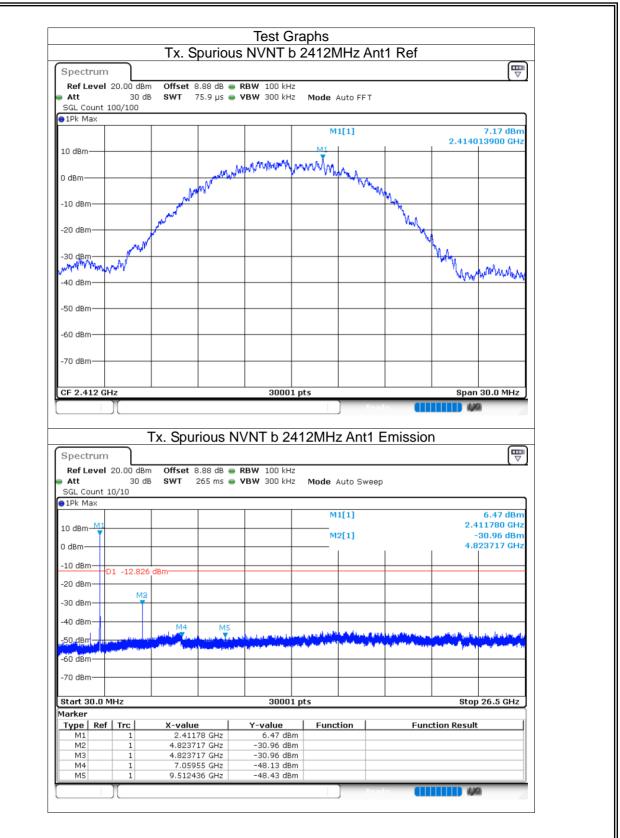
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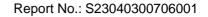
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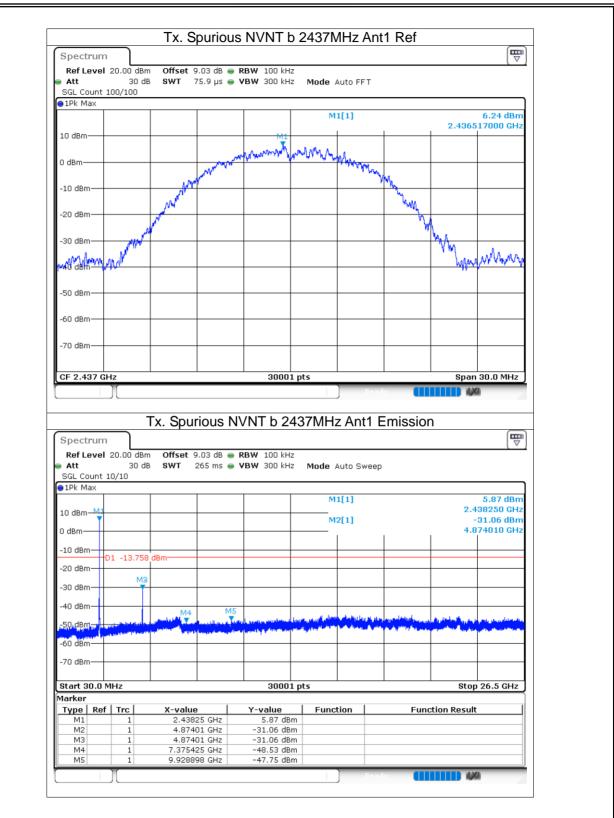










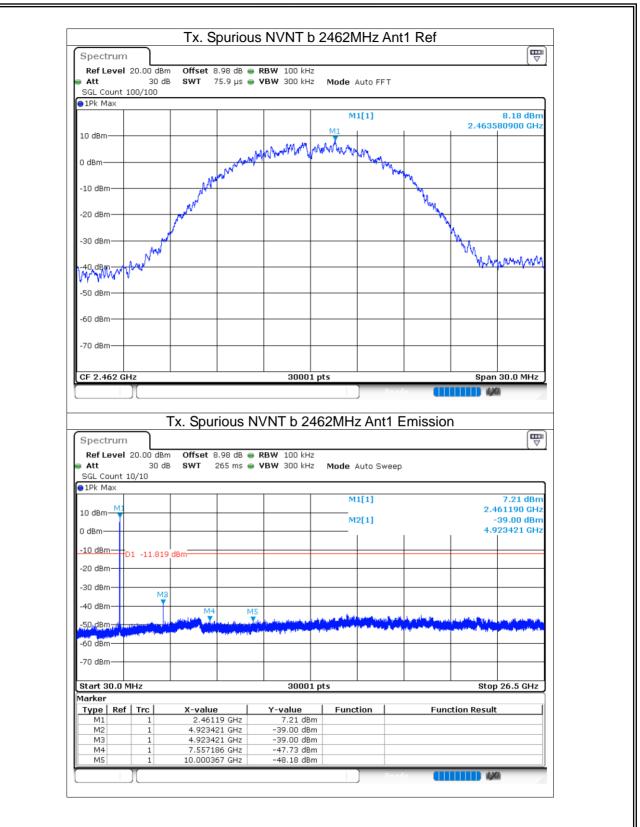


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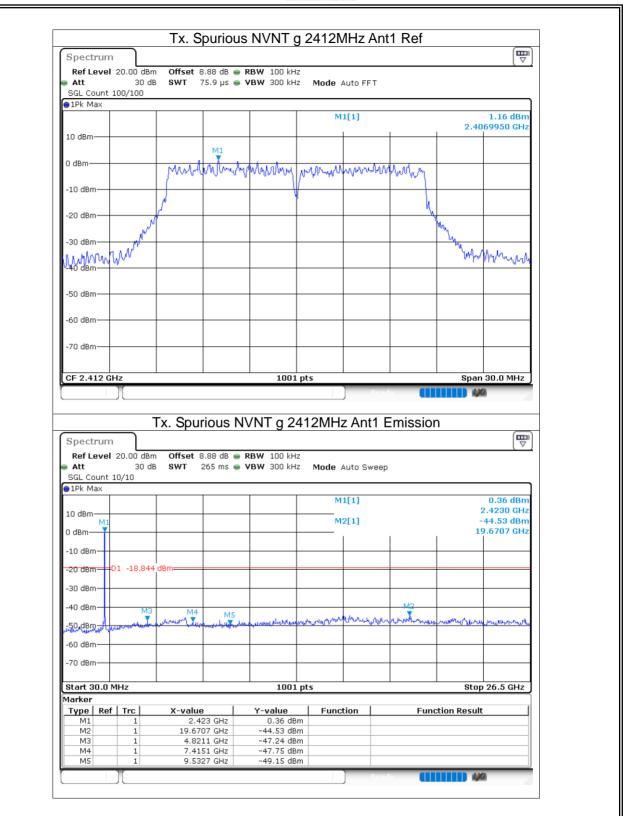






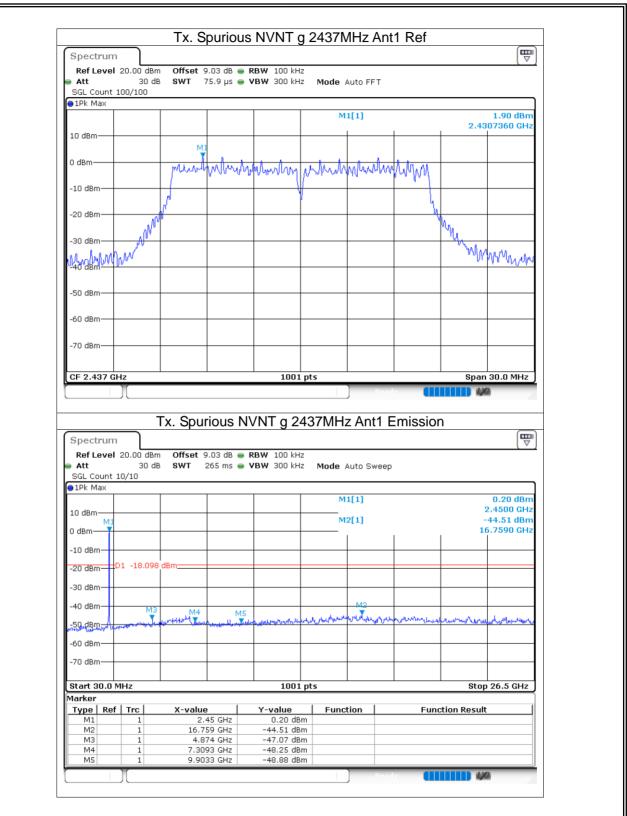










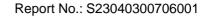


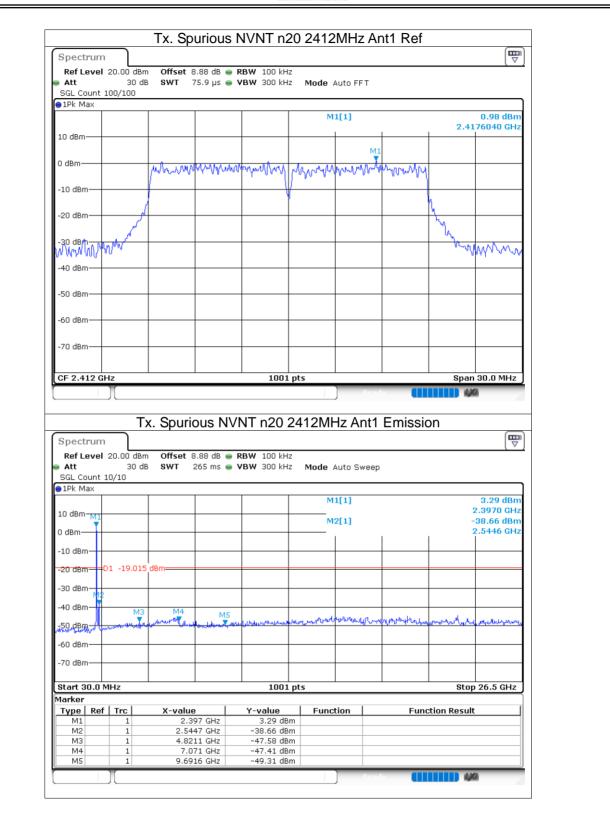




Spect	euro				s NVNT g					
-		20.00 dB	m Offset 8	a ah 80 1	RBW 100 kHz	,				[\Box]
Att		30 c			VBW 300 kHz		uto FFT			
SGL Co		00/100								
⊖1Pk Ma	ax					M1	[1]			0.07 dBm
									2.45	57360 GHz
10 dBm-										
			M1							
0 dBm—			March	Muhan	Monthly	Manda	mynn	rollins		
-10 dBm					0	V V				
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-20 dBm	-							h 74		
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-30 dBm		NA							Mr.	
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-50 dBm	+				+					
-60 dBm	-		+		+ +					
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-70 dBm										
					1					
05.2	0.0	-								00.0
CF 2.46		iz)[Tx. Spur	ious N	1001 IVNT g 24		z Ant1 E	Emission		30.0 MHz
Spectr Ref Le	rum	20.00 dB	m Offset 8	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz				30.0 MHz)
Spectr	rum evel :	20.00 dB 30 c	m Offset 8	1.98 dB 👄	IVNT g 24	162MHz	Z Ant1 E			
Spectr Ref Le Att	rum evel :: unt 1	20.00 dB 30 c	m Offset 8	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : : Mode A	uto Sweep		n	
Spectr Ref Le • Att SGL Co • 1Pk Ma	rum evel :: unt 1	20.00 dB 30 c	m Offset 8	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : : Mode A			n	
Spectr Ref Le Att SGL Co PIPk Ma 10 dBm-	rum evel :: unt 1	20.00 dB 30 c	m Offset 8	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : Mode A	uto Sweep		n	-0.85 dBm 2.4500 GHz 44.08 dBm
Spectr Ref Le • Att SGL Co • 1Pk Ma	rum evel : unt 1 ax	20.00 dB 30 c	m Offset 8	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : Mode A	uto Sweep		n	-0.85 dBm 2.4500 GHz
Spectr Ref Le Att SGL Co PIPk Ma 10 dBm-	rum evel : unt 1 ex	20.00 dB 30 c	m Offset 8	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : Mode A	uto Sweep		n	-0.85 dBm 2.4500 GHz 44.08 dBm
Spectr Ref Le Att SGL Co 1Pk Ma 10 dBm- 0 dBm-	rum svel : unt 1 sx	20.00 dB 30 c	m Offset 8 B SWT 2	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : Mode A	uto Sweep		n	-0.85 dBm 2.4500 GHz 44.08 dBm
Spectr Ref Le Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm	rum evel : unt 1 ax M1	20.00 dB 30 c 0/10	m Offset 8 B SWT 2	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : Mode A	uto Sweep		n	-0.85 dBm 2.4500 GHz 44.08 dBm
Spectr RefLe SGL Co IPk Ma 10 dBm- -10 dBm- -20 dBm	rum evel : M1 M1	20.00 dB 30 c 0/10	m Offset 8 B SWT 2	1.98 dB 👄	VNT g 24 RBW 100 kH2	162MHz : Mode A	uto Sweep		n	-0.85 dBm 2.4500 GHz 44.08 dBm
Spectu Ref Le Att SGL Co 10 dBm- 10 dBm- -10 dBm -20 dBm -30 dBm	rum evel : ax M1	20.00 dB 30 c 0/10	m Offset 8 IB SWT 2 8 dBm 8 dBm	1.98 dB 👄	RBW 100 kHz VBW 300 kHz	162MHz Mode A M1	uto Sweep [[1] 2[1]			-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr RefLe SGL Co IPk Ma 10 dBm- -10 dBm- -20 dBm	rum evel : ax M1	20.00 dB 30 c 0/10	m Offset 8 B SWT 2	2.98 dB	VNT g 24 RBW 100 kH2	162MHz Mode A M1	uto Sweep [[1] 2[1]			-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectu Ref Le Att SGL Co 10 dBm- 10 dBm- -10 dBm -20 dBm -30 dBm	M1	20.00 dB 30 c 0/10	m Offset 8 IB SWT 2 8 dBm 8 dBm	2.98 dB	RBW 100 kHz VBW 300 kHz	162MHz Mode A M1	uto Sweep [[1] 2[1]			-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr Ref Le Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	M1	20.00 dB 30 c 0/10	m Offset 8 IB SWT 2 8 dBm 8 dBm	2.98 dB	RBW 100 kHz VBW 300 kHz	162MHz Mode A M1	uto Sweep [[1] 2[1]			-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr Ref Le Att SGL Co 1Pk Ma 10 dBm- -10 dBm- -10 dBm -30 dBm -30 dBm -40 dBm -50 dBm	M1	20.00 dB 30 c 0/10	m Offset 8 IB SWT 2 8 dBm 8 dBm	2.98 dB	RBW 100 kHz VBW 300 kHz	162MHz Mode A M1	uto Sweep [[1] 2[1]			-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr Ref Le Att SGL Co 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm	M1	20.00 dB 30 c 0/10	m Offset 8 IB SWT 2 8 dBm 8 dBm	2.98 dB	RBW 100 kHz VBW 300 kHz	162MHz Mode A M1 M2	uto Sweep [[1] 2[1]		ר ר ר ר ר ר ר ר	-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectu Ref Le Att SGL Co ID dBm- 0 dBm- -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm	MI D.0 M	20.00 dB 30 c 0/10 1 -19.92	m Offset 8 B SWT 2	. 98 dB 265 ms 265 ms	IVNT g 24 RBW 100 kHz VBW 300 kHz	162MHz	uto Sweep	and the second s	۲ ۲ 1 ۱ ۱ ۱ ۲	-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr Ref Le Att SGL Co 10 dBm- 10 dBm- -10 dBm- -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 30 Marker Type M1	MI D.0 M	20.00 dB 30 c 0/10 1 -19.92 M 	m Offset 8 B SWT 2 8 dBm 8 dBm 3 4 4 4 4 4 4 4 4 4 4 4 4 4	M5	VNT g 24 RBW 100 kHz VBW 300 kHz 100 kHz vBW 300 kHz 100 kHz vBW 300 kHz 100 kHz vBW 300 kHz 100 k	162MHz Mode A M3 M2 M2 M2 M2 M2 M3 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto Sweep	and the second s	ר ר ר ר ר ר ר ר ר	-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr Ref Le Att SGL Co 10 dBm- 10 dBm- -10 dBm- -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm Start 31 Marker Type M1 M2	MI D.0 M	20.00 dB 30 c 0/10 1 -19.92 	m Offset 8 IB SWT 2 8 dBm 8 dBm X-value X-value 2.4 15.964		IVNT g 24 RBW 100 kHz VBW 300 kHz VBW 300 kHz	162MHz Mode A M1 M2 M2 mult_mut m2 mult_mut m	uto Sweep	and the second s	۲ ۲ 1 ۱ ۱ ۱ ۲	-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz
Spectr Ref Le Att SGL Co 1Pk Ma 10 dBm- 10 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 30 Marker Type M1	MI D.0 M	20.00 dB 30 c 0/10 1 -19.92 M 	m Offset 8 B SWT 2 8 dBm 8 dBm 3 M4 4 2.4 15.964 4.922 7.282 7.282	M5	VNT g 24 RBW 100 kHz VBW 300 kHz 100 kHz vBW 300 kHz 100 kHz vBW 300 kHz 100 kHz vBW 300 kHz 100 k	162MHz Mode A M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto Sweep	and the second s	۲ ۲ 1 ۱ ۱ ۱ ۲	-0.85 dBm 2.4500 GHz 44.08 dBm 5.9649 GHz







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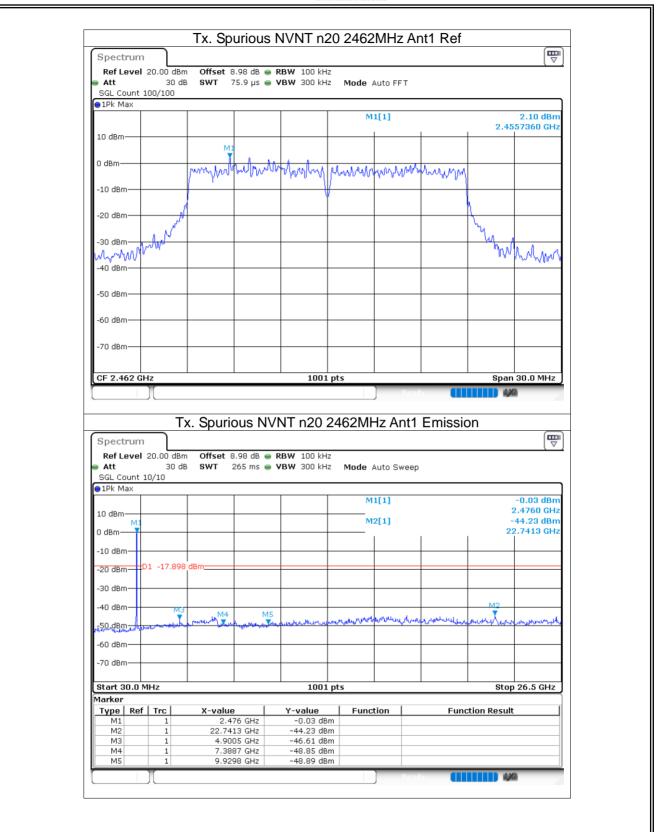




Spectrum								
Ref Level 20.00	dBm Offset 9.1	03 dB 👄 R	BW 100 kH	z				(~
Att :	30 dB SWT 75		'BW 300 kH		Auto FFT			
SGL Count 100/10	00							
●1Pk Max								0.00.15
				N N	1[1]		24	2.82 dBm 307360 GHz
10 dBm							2.9	
	M1							
0 dBm	L. Brown W	n . A A in	M. A.M.		. w Mostra	10 a 10 a 10		
	perminant		""ผู้สายหลุ่งๆ	pupper	WANG WANT	and a sol		
-10 dBm								
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-20 dBm							N	
-30 dBm	<i>S</i>						hay	
-30 dBm - MA							- White	when
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-40 dBm						1		
-50 dBm								1
60 d0m								
-60 dBm								
70 d0m								
-70 dBm								
05 0 407 011-			1001				0	- 00 0 MU-
GF 2.437 GHZ			1001	pts	-		spa	n 30.0 MHz
CF 2.437 GHz	Tx. Spurio	us NVI) Prov Hz Ant1	e missio		
Spectrum Ref Level 20.00	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M				M 30.0 MH2
Spectrum Ref Level 20.00 Att	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M				
Spectrum Ref Level 20.00 Att 35GL Count 10/10	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M				
Spectrum Ref Level 20.00 Att 35GL Count 10/10	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M ^z Mode				
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M	Auto Sweep			2.23 dBm 2.4500 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm M1	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M	Auto Sweep		on	2.23 dBm 2.4500 GHz -43.82 dBm
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm M1 0 dBm	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M	Auto Sweep		on	2.23 dBm 2.4500 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm M1 0 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB 👄 R	NT n20 :	2437M	Auto Sweep		on	2.23 dBm 2.4500 GHz -43.82 dBm
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm M1 0 dBm	dBm Offset 9.1	03 dB 👄 R	NT n20 :	2437M	Auto Sweep		on	2.23 dBm 2.4500 GHz -43.82 dBm
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm M1 0 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB 👄 R	NT n20 :	2437M	Auto Sweep		on	2.23 dBm 2.4500 GHz -43.82 dBm
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -10 dBm -10 dBm -10 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB 👄 R	NT n20 :	2437M	Auto Sweep		on	2.23 dBm 2.4500 GHz -43.82 dBm
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -40 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep		DN	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att 5 SGL Count 10/10 1Pk Max 10 dBm 10 0 dBm 10 -20 dBm 11 -20 dBm 11 -30 dBm	0 dBm Offset 9.0 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep		DN	2.23 dBm 2.4500 GHz -43.82 dBm
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm 10 -10 dBm 20 -20 dBm 20 -20 dBm 20 -30 dBm 40 -50 dBm 40	0 dBm Offset 9.1 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep		DN	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att 5 SGL Count 10/10 1Pk Max 10 dBm 10 0 dBm 10 -20 dBm 11 -20 dBm 11 -30 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep		DN	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm 10 10 dBm 10 -20 dBm 10 -20 dBm 10 -20 dBm 10 -20 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep		DN	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att :: SGL Count 10/10 • 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep			2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm	0 dBm Offset 9.1 30 dB SWT 26	03 dB • R 65 ms • V	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep			2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 30.0 MHz	0 dBm Offset 9.1 30 dB SWT 26	03 dB	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep	l L L L L	DN DN phop ^{uk} true ¹ (cycle sta	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 IPk Max 10 dBm 10	0 dBm Offset 9.0 30 dB SWT 26 7.180 dBm M3 بریابی سایر M4 بریابی سایر M4 K-value	03 dB • R 55 ms • V	NT n20 2	2437M	Auto Sweep	l L L L L		2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 30.0 MHz	0 dBm Offset 9.1 30 dB SWT 26	03 dB R S S M5 M5 M5 S GHz	NT n20 2 BW 100 kH BW 300 kH	2437M	Auto Sweep	l L L L L	DN DN phop ^{uk} true ¹ (cycle sta	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Btart 30.0 MHz Marker Type M1 M3	0 dBm Offset 9.1 30 dB SWT 26 30 dB SWT 26 7.180 dBm 1 7.180 dBm 1 1.180 dBm <td< td=""><td>03 dB • R 55 ms • V 55 ms • V 55 GHZ 5 GHZ 5 GHZ</td><td>NT n20 2 BW 100 kH BW 300 kH 300 kH 100 kH 100 kH 100 kH 100 kH 200 kH 100 kH 1</td><td>2437M</td><td>Auto Sweep</td><td>l L L L L</td><td>DN DN phop^{uk}true¹ (cycle sta</td><td>2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz</td></td<>	03 dB • R 55 ms • V 55 ms • V 55 GHZ 5 GHZ 5 GHZ	NT n20 2 BW 100 kH BW 300 kH 300 kH 100 kH 100 kH 100 kH 100 kH 200 kH 100 kH 1	2437M	Auto Sweep	l L L L L	DN DN phop ^{uk} true ¹ (cycle sta	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz
Spectrum Ref Level 20.00 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 30.0 MHz Marker Type M1 M2	M3 M3 M3 M3 M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	03 dB R 55 ms V 55 ms V 55 ms 56 ms	NT n20 2 BW 100 kH BW 300 kH 300 kH 3	2437M	Auto Sweep	l L L L L	DN DN phop ^{uk} true ¹ (cycle sta	2.23 dBm 2.4500 GHz -43.82 dBm 16.7326 GHz







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