

## FCC RADIO TEST REPORT FCC ID: 2AUVWPB619

Product: Verse Lite Trade Mark: PocketBook Model No.: PB619 Family Model: N/A Report No.: S24110605906001 Issue Date: Dec. 24, 2024

## **Prepared for**

Pocketbook International SA.

Crocicchio Cortogna 6, 6900, Lugano, Switzerland

### Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China

Tel. 0755-23200050 Website:http://www.ntek.org.cn



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

Applicant's name	Pocketbook International SA.
Address	Crocicchio Cortogna 6, 6900, Lugano, Switzerland
Manufacturer's Name	Pocketbook International SA.
Address	Crocicchio Cortogna 6, 6900, Lugano, Switzerland
Product description	
Product name	Verse Lite
Model and/or type reference	PB619
Trade Mark	PocketBook
Family Model	N/A
Test Sample Number	S241106059005
Date of Test	Nov. 06, 2024 ~ Dec. 24, 2024

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	Complied			
ANSI C63.10-2013	Complied			
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.

Prepared

By

**Kieron Luo** (Project Engineer)

) Reviewed By :-

Aaron Cheng Aaron Cheng

(Supervisor)

Approved By Alex Li

(Manager)



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)	Maximum 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:

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

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of 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	: No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan
	District, Shenzhen, Guangdong, People's Republic of 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	Occupied bandwidth	±3.7%
9	POWER SPECTRAL DENSITY	±1.21dB
10	Humidity	±2%
11	All emissions, radiated(9KHz~30MHz)	±6dB

# NTEK JLW®

#### 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment	Verse Lite				
Trade Mark	PocketBook				
FCC ID	2AUVWPB619				
Model No.	PB619				
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	1.8 dBi				
Power supply	DC 3.7V from battery				
Battery	DC 3.7V 1000mAh 3.7Wh				
Adapter	N/A				
Hardware version:	v. 1.0				
Firmware version:	6.8.4252				
Software version:	N/A				

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.	Version	Description	Issued Date		
S24110605906001	Rev.01	Initial issue of report	Dec. 24, 2024		





#### 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 (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.

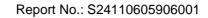




Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	WiFi Link +Charging	-	-	-
	11b/CCK	1 Mbps	1/6/11	1
Maximum Conducted Output	11g/BPSK	6 Mbps	1/6/11	1
Power	11n HT20	MCS0	1/6/11	1
				1
	11b/CCK	1 Mbps	1/6/11	1
Power Spectral Density	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
				1
	11b/CCK	1 Mbps	1/6/11	1
6dB Spectrum Bandwidth	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
				1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
	11b/CCK	1 Mbps	1/6/11	1
Radiated Emissions Above	11g/BPSK	6 Mbps	1/6/11	1
1GHz	•	•		-
	11n HT20	MCS0	1/6/11	1
				1
	11b/CCK	1 Mbps	1/6/11	1
Band Edge Emissions	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
		10000	1/0/11	1



Certificate #4298.01	
6 SETUP OF EQUIPMENT UNDER TEST	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
For AC Conducted Emission Mode	
AC PLUG C-1 AE-1 Adapter EUT	
For Radiated Test Cases	
EUT	
For Conducted Test Cases	
Measurement Instrument EUT	
Noto:The temporary antenna connector is soldered on the PCB board in order	to perform conducted
Note:The temporary antenna connector is soldered on the PCB board in order tests and this temporary antenna connector is listed in the equipment list.	to periorni conducted





#### 6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
EUT	Verse Lite	PB619	N/A	Peripherals
AE-1	adapter	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	0.3m
C-2	RF Cable	NO	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

		estequipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2024.04.25	2025.04.24	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	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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



AC 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	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	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.

#### Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

#### 7 TEST REQUIREMENTS

#### 7.1 CONDUCTED EMISSIONS TEST

#### 7.1.1 Applicable Standard

According to FCC Part 15.207(a)

#### 7.1.2 Conformance Limit

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

Note: 1. \*Decreases with the logarithm of the frequency

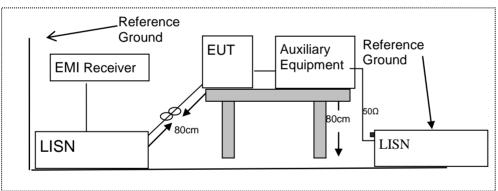
2. The lower limit shall apply at the transition frequencies

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

#### 7.1.3 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

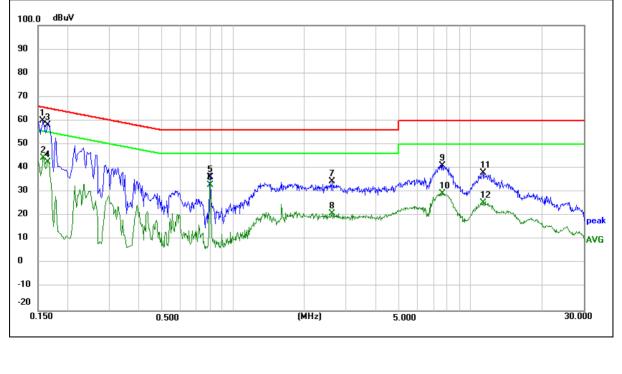
EUT:	Verse Lite	Model Name :	PB619
Temperature:	<b>25.8</b> ℃	Relative Humidity:	55.6%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Last Moda.	WiFi Link +Charging

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	50.00	10.02	60.02	65.57	-5.55	QP
0.1581	34.28	10.02	44.30	55.56	-11.26	AVG
0.1650	48.15	10.04	58.19	65.21	-7.02	QP
0.1650	32.40	10.04	42.44	55.21	-12.77	AVG
0.8020	24.94	11.32	36.26	56.00	-19.74	QP
0.8020	21.52	11.32	32.84	46.00	-13.16	AVG
2.6220	24.66	9.86	34.52	56.00	-21.48	QP
2.6220	11.07	9.86	20.93	46.00	-25.07	AVG
7.6100	30.51	10.49	41.00	60.00	-19.00	QP
7.6100	18.80	10.49	29.29	50.00	-20.71	AVG
11.2860	38.22	-0.17	38.05	60.00	-21.95	QP
11.2860	25.53	-0.17	25.36	50.00	-24.64	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





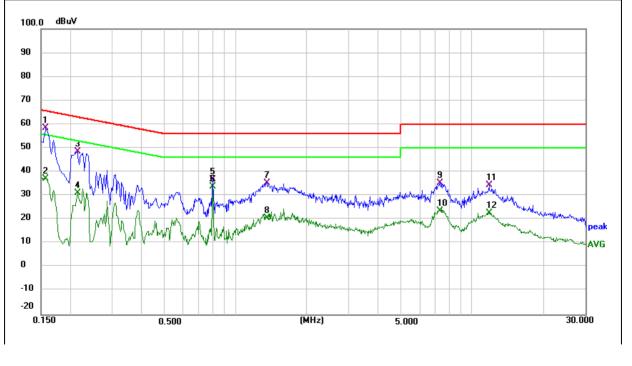
EUT:	Verse Lite	Model Name :	PB619
Temperature:	<b>25.8</b> ℃	Relative Humidity:	55.6%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	WiFi Link +Charging

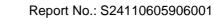
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demerle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	48.94	9.46	58.40	65.57	-7.17	QP
0.1580	27.80	9.46	37.26	55.57	-18.31	AVG
0.2140	38.96	9.54	48.50	63.05	-14.55	QP
0.2140	21.70	9.54	31.24	53.05	-21.81	AVG
0.7980	26.23	10.60	36.83	56.00	-19.17	QP
0.7980	23.23	10.60	33.83	46.00	-12.17	AVG
1.3580	23.67	11.75	35.42	56.00	-20.58	QP
1.3580	8.99	11.75	20.74	46.00	-25.26	AVG
7.3140	25.85	9.64	35.49	60.00	-24.51	QP
7.3140	14.02	9.64	23.66	50.00	-26.34	AVG
11.7700	35.83	-1.34	34.49	60.00	-25.51	QP
11.7700	24.05	-1.34	22.71	50.00	-27.29	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 Fail 15.205, Restricted bands				
MHz	MHz	MHz	GHz	
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15	
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46	
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75	
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5	
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2	
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5	
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7	
6.26775-6.26825	123-138	2200-2300	14.47-14.5	
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2	
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4	
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12	
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0	
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8	
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5	
12.57675-12.57725	322-335.4	3600-4400	(2)	
13.36-13.41				

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

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

#### Limits of Radiated Emission Measurement(Above 1000MHz)

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

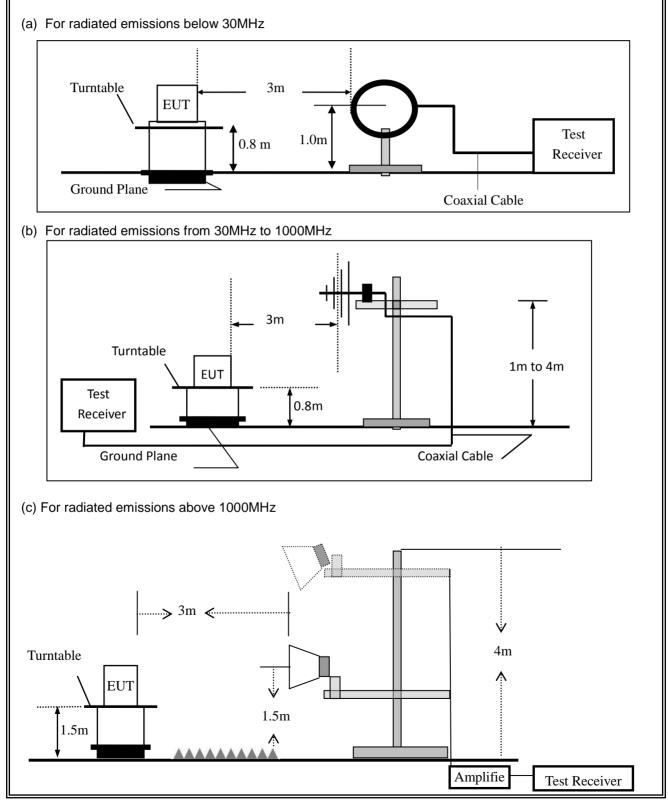
Limit line=Specific limits(dBuV) + distance extrapolation factor.



#### 7.2.3 Measuring Instruments

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

#### 7.2.4 Test Configuration





#### 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 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.

#### 7.2.6 Test Results

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

EUT:	Verse Lite	N	Model No.:	PB619
Temperature:	<b>20</b> ℃	R	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20)	Т	Test By:	Kieron Luo

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 Lite	Model Name :	PB619
Temperature:	<b>25.4</b> ℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	802.11b CH01
Test Voltage :	DC 3.7V from battery		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)		
V	67.6751	8.92	16.99	25.91	40.00	-14.09	QP	
V	99.8777	6.08	17.89	23.97	43.50	-19.53	QP	
V	181.9202	11.22	16.36	27.58	43.50	-15.92	QP	
V	239.9874	16.07	19.10	35.17	46.00	-10.83	QP	
V	649.6597	6.89	27.31	34.20	46.00	-11.80	QP	
V	721.7259	11.79	28.85	40.64	46.00	-5.36	QP	

#### **Remark:**







Pol		Frequ	ency		leter ading	Factor	Emis: Lev		Limits	Margin	Remark
(H/\	V)	(MF	(MHz)		BuV)	(dB)	(dBu\	//m)	(dBuV/m)	(dB)	1 tornaint
Н		46.6	664	ļ	5.76	19.66	25.4	42	40.00	-14.58	QP
Н		67.4	382	1	1.27	17.05	28.3	32	40.00	-11.68	QP
Н		93.1	132		5.43	16.47	21.9	90	43.50	-21.60	QP
Н		165.4	866		3.30	15.28	28.		43.50	-14.92	QP
Н		239.9			7.15	19.10	36.2		46.00	-9.75	QP
Н		721.7	259	1	3.22	28.85	42.0	)7	46.00	-3.93	QP
Remark:         Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit         80.0       dBuV/m											
70											
60 50											
40							ſ	5 ×		6	umandum
30 20	ogelsfraw	nijetode vieže	whole ded wind for	Ž	3	when we	1 Juli Mandard	www.ww	and the and the second	Alashhhhh	
10				- Mayer	upon -	- WEINE - SHARE					
0.0											
30	).000		60.	00			(MHz)	<u> </u>	300.00		1000.000



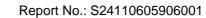
■ Si	purious Er	nission	Above 1	GHz (1GH	z to 25GF	Ηz)						
EUT:			Verse Lite			,	el No.:	PB	619			
Temp	erature:		20 °C			Rela	ative Humidi	ty: 48	%			
Test N	Mode:	8	302.11b/g	g/n(HT20)		Tes	: By:	Kie	Kieron Luo			
All the	modulatio		,		d, and the		ult was repo					
F	requency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment		
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
				Low Chanr	nel (2412 N	/Hz)(802.1 <sup>-</sup>	b)Above 10	G				
4	4824.265	64.55	5.21	35.59	44.30	61.05	74.00	-12.95	Pk	Vertical		
4	4824.265	53.02	5.21	35.59	44.30	49.52	54.00	-4.48	AV	Vertical		
7	7236.296	53.91	6.48	36.27	44.60	52.06	74.00	-21.94	Pk	Vertical		
7	7236.296	43.03	6.48	36.27	44.60	41.18	54.00	-12.82	AV	Vertical		
4	4824.414	60.98	5.21	35.55	44.30	57.44	74.00	-16.56	Pk	Horizontal		
4	4824.414	50.43	5.21	35.55	44.30	46.89	54.00	-7.11	AV	Horizontal		
7	7236.428	44.82	6.48	36.27	44.52	43.05	74.00	-30.95	Pk	Horizontal		
7	7236.428	33.50	6.48	36.27	44.52	31.73	54.00	-22.27	AV	Horizontal		
			1	liddle Char	nnel (2437	MHz)(802.	1b)Above 2	IG				
4	4874.312	64.46	5.21	35.66	44.20	61.13	74.00	-12.87	Pk	Vertical		
4	4874.312	53.20	5.21	35.66	44.20	49.87	54.00	-4.13	AV	Vertical		
7	7311.227	51.69	7.10	36.50	44.43	50.86	74.00	-23.14	Pk	Vertical		
7	7311.227	42.46	7.10	36.50	44.43	41.63	54.00	-12.37	AV	Vertical		
4	4874.529	62.49	5.21	35.66	44.20	59.16	74.00	-14.84	Pk	Horizontal		
4	4874.529	51.53	5.21	35.66	44.20	48.20	54.00	-5.80	AV	Horizontal		
7	7311.313	58.94	7.10	36.50	44.43	58.11	74.00	-15.89	Pk	Horizontal		
7	7311.313	48.05	7.10	36.50	44.43	47.22	54.00	-6.78	AV	Horizontal		
				High Chan	nel (2462 N	MHz)(802.1	1b)Above 1	G				
4	4924.102	64.11	5.21	35.52	44.21	60.63	74.00	-13.37	Pk	Vertical		
4	4924.102	53.40	5.21	35.52	44.21	49.92	54.00	-4.08	AV	Vertical		
7	7386.425	46.56	7.10	36.53	44.60	45.59	74.00	-28.41	Pk	Vertical		
7	7386.425	34.47	7.10	36.53	44.60	33.50	54.00	-20.50	AV	Vertical		
4	4924.066	62.92	5.21	35.52	44.21	59.44	74.00	-14.56	Pk	Horizontal		
4	4924.066	51.80	5.21	35.52	44.21	48.32	54.00	-5.68	AV	Horizontal		
7	7386.198	55.29	7.10	36.53	44.60	54.32	74.00	-19.68	Pk	Horizontal		
7	7386.198	46.52	7.10	36.53	44.60	45.55	54.00	-8.45	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	
				80	02.11b				
2310.00	65.09	2.97	27.80	43.80	52.06	74	-21.94	Pk	Horizontal
2310.00	55.24	2.97	27.80	43.80	42.21	54	-11.79	AV	Horizontal
2310.00	64.60	2.97	27.80	43.80	51.57	74	-22.43	Pk	Vertical
2310.00	54.04	2.97	27.80	43.80	41.01	54	-12.99	AV	Vertical
2390.00	62.89	3.14	27.21	43.80	49.44	74	-24.56	Pk	Vertical
2390.00	52.93	3.14	27.21	43.80	39.48	54	-14.52	AV	Vertical
2390.00	65.78	3.14	27.21	43.80	52.33	74	-21.67	Pk	Horizontal
2390.00	54.91	3.14	27.21	43.80	41.46	54	-12.54	AV	Horizontal
2483.50	68.84	3.58	27.70	44.00	56.12	74	-17.88	Pk	Vertical
2483.50	60.06	3.58	27.70	44.00	47.34	54	-6.66	AV	Vertical
2483.50	70.55	3.58	27.70	44.00	57.83	74	-16.17	Pk	Horizontal
2483.50	60.71	3.58	27.70	44.00	47.99	54	-6.01	AV	Horizontal
2500.00	66.47	5.9	27.70	45.10	54.97	74	-19.03	Pk	Vertical
2500.00	54.76	5.9	27.70	45.10	43.26	54	-10.74	AV	Vertical
2500.00	67.87	5.9	27.70	45.10	56.37	74	-17.63	Pk	Horizontal
2500.00	55.91	5.9	27.70	45.10	44.41	54	-9.59	AV	Horizontal
				80	02.11g				
2310.00	65.00	2.97	27.80	43.80	51.97	74	-22.03	Pk	Horizontal
2310.00	53.61	2.97	27.80	43.80	40.58	54	-13.42	AV	Horizontal
2310.00	65.28	2.97	27.80	43.80	52.25	74	-21.75	Pk	Vertical
2310.00	54.80	2.97	27.80	43.80	41.77	54	-12.23	AV	Vertical
2390.00	66.92	3.14	27.21	43.80	53.47	74	-20.53	Pk	Vertical
2390.00	55.83	3.14	27.21	43.80	42.38	54	-11.62	AV	Vertical
2390.00	67.16	3.14	27.21	43.80	53.71	74	-20.29	Pk	Horizontal
2390.00	56.84	3.14	27.21	43.80	43.39	54	-10.61	AV	Horizontal
2483.50	70.49	3.58	27.70	44.00	57.77	74	-16.23	Pk	Vertical
2483.50	60.60	3.58	27.70	44.00	47.88	54	-6.12	AV	Vertical
2483.50	69.69	3.58	27.70	44.00	56.97	74	-17.03	Pk	Horizontal
2483.50	58.94	3.58	27.70	44.00	46.22	54	-7.78	AV	Horizontal
2500.00	66.36	5.9	27.70	45.10	54.86	74	-19.14	Pk	Vertical
2500.00	54.53	5.9	27.70	45.10	43.03	54	-10.97	AV	Vertical
2500.00	66.09	5.9	27.70	45.10	54.59	74	-19.41	Pk	Horizontal
2500.00	54.86	5.9	27.70	45.10	43.36	54	-10.64	AV	Horizontal
	I	I		802	2.11n20	[			
2310.00	64.03	2.97	27.80	43.80	51.00	74	-23.00	Pk	Horizontal
2310.00	53.91	2.97	27.80	43.80	40.88	54	-13.12	AV	Horizontal
2310.00	64.23	2.97	27.80	43.80	51.20	74	-22.80	Pk	Vertical
2310.00	53.78	2.97	27.80	43.80	40.75	54	-13.25	AV	Vertical
2390.00	66.79	3.14	27.21	43.80	53.34	74	-20.66	Pk	Vertical
2390.00	56.45	3.14	27.21	43.80	43.00	54	-11.00	AV	Vertical
2390.00	67.00	3.14	27.21	43.80	53.55	74	-20.45	Pk	Horizontal



ſ			1					1		
	2390.00	57.06	3.14	27.21	43.80	43.61	54	-10.39	AV	Horizontal
	2483.50	70.59	3.58	27.70	44.00	57.87	74	-16.13	Pk	Vertical
	2483.50	59.66	3.58	27.70	44.00	46.94	54	-7.06	AV	Vertical
	2483.50	69.93	3.58	27.70	44.00	57.21	74	-16.79	Pk	Horizontal
	2483.50	58.53	3.58	27.70	44.00	45.81	54	-8.19	AV	Horizontal
	2500.00	67.36	5.9	27.70	45.10	55.86	74	-18.14	Pk	Vertical
	2500.00	55.44	5.9	27.70	45.10	43.94	54	-10.06	AV	Vertical
	2500.00	68.77	5.9	27.70	45.10	57.27	74	-16.73	Pk	Horizontal
	2500.00	56.45	5.9	27.70	45.10	44.95	54	-9.05	AV	Horizontal



Spurious Emission in Restricted Bands 3260MHz- 18000MHz

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

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	62.30	4.04	29.57	44.70	51.21	74	-22.79	Pk	Vertical
3260	51.73	4.04	29.57	44.70	40.64	54	-13.36	AV	Vertical
3260	63.38	4.04	29.57	44.70	52.29	74	-21.71	Pk	Horizontal
3260	51.71	4.04	29.57	44.70	40.62	54	-13.38	AV	Horizontal
3332	62.78	4.26	29.87	44.40	52.51	74	-21.49	Pk	Vertical
3332	51.92	4.26	29.87	44.40	41.65	54	-12.35	AV	Vertical
3332	64.59	4.26	29.87	44.40	54.32	74	-19.68	Pk	Horizontal
3332	53.40	4.26	29.87	44.40	43.13	54	-10.87	AV	Horizontal
17797	44.62	10.99	43.95	43.50	56.06	74	-17.94	Pk	Vertical
17797	33.51	10.99	43.95	43.50	44.95	54	-9.05	AV	Vertical
17788	44.84	11.81	43.69	44.60	55.74	74	-18.26	Pk	Horizontal
17788	32.15	11.81	43.69	44.60	43.05	54	-10.95	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

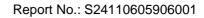
The testing follows Subclause 11.8 of ANSI C63.10. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW = 100KHz VBW  $\geq$  3\*RBW Sweep = auto Detector function = peak Trace = max hold



#### 7.3.6 Test Results

EUT:	Verse Lite	Model No.:	PB619
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Kieron Luo

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 µs.)

Measure  $T_{total}$  and  $T_{on}$ 

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

#### 7.4.6 Test Results

EUT:	Verse Lite	Model No.:	PB619
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Kieron Luo

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.

#### 7.5.2 Conformance Limit

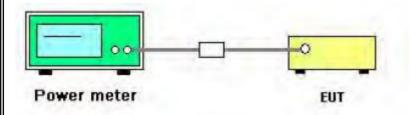
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be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

#### 7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.



#### 7.5.7 Test Results

EUT:	Verse Lite	Model No.:	PB619
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Kieron Luo

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.

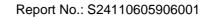
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



#### 7.6.6 Test Results

EUT:	Verse Lite	Model No.:	PB619
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Kieron Luo

Test data reference attachment.





#### 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:	Verse Lite	Model No.:	PB619
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Kieron Luo

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.

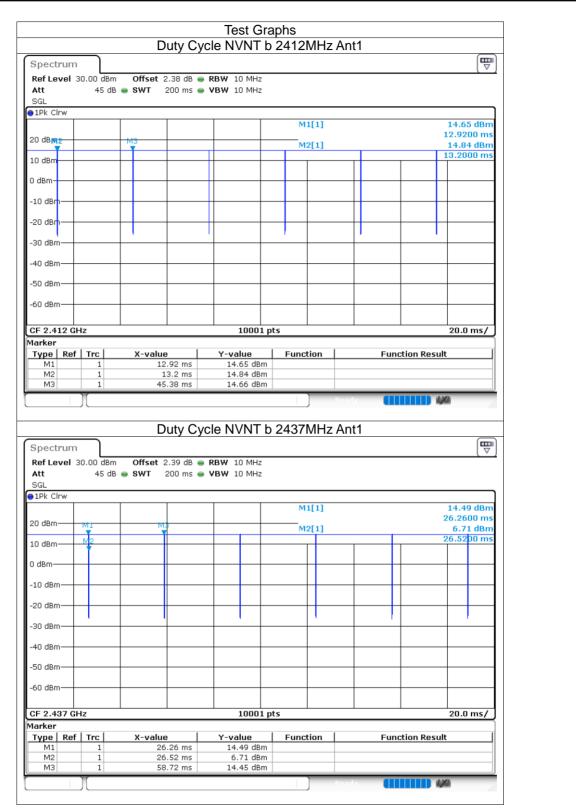


# 8 TEST RESULTS

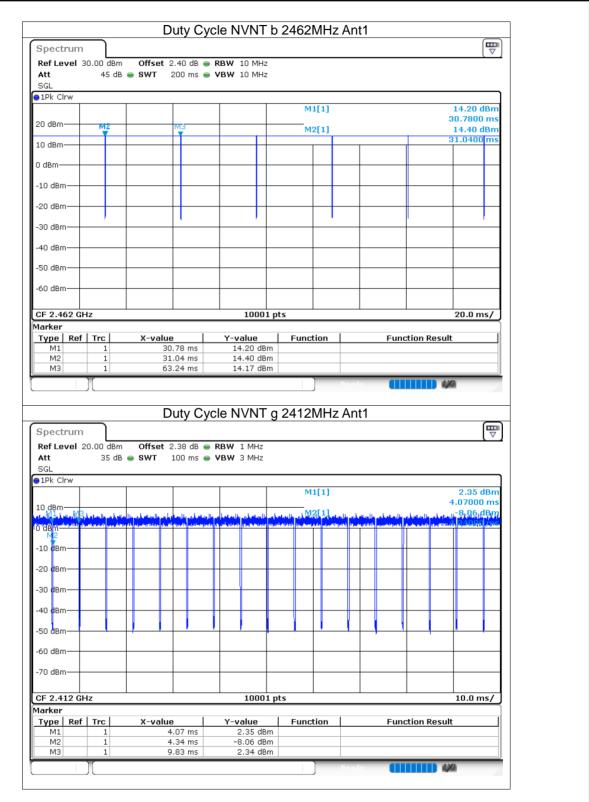
### 8.1 DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.26	0.03	0.03
NVNT	b	2437	Ant1	99.28	0.03	0.03
NVNT	b	2462	Ant1	99.28	0.03	0.03
NVNT	g	2412	Ant1	95.42	0.2	0.18
NVNT	g	2437	Ant1	95.56	0.2	0.19
NVNT	g	2462	Ant1	94.73	0.24	0.19
NVNT	n20	2412	Ant1	92.57	0.34	0.2
NVNT	n20	2437	Ant1	95.27	0.21	0.2
NVNT	n20	2462	Ant1	94.56	0.24	0.2

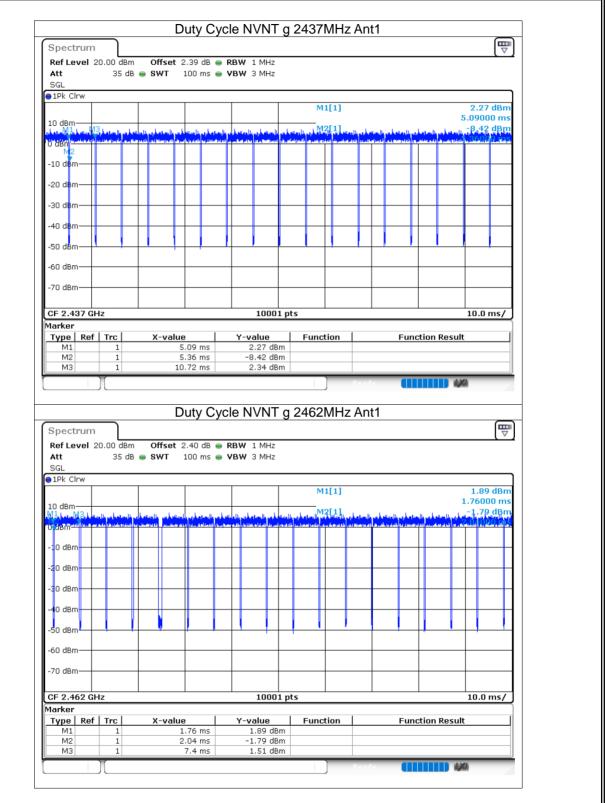




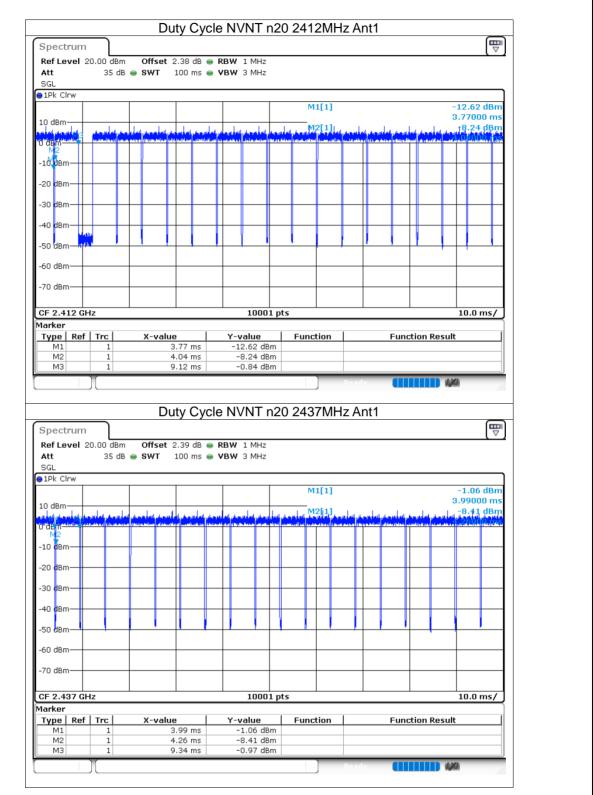




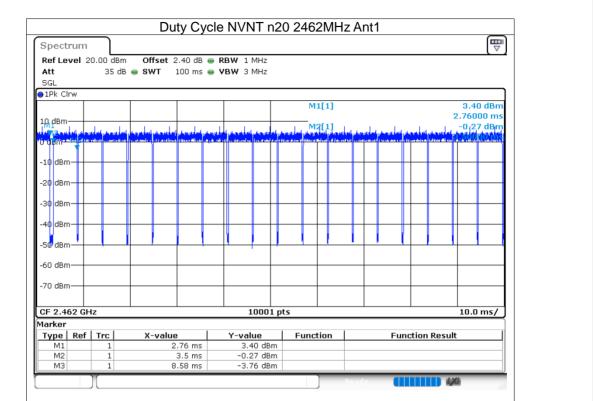


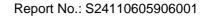














### 8.2 MAXIMUM CONDUCTED OUTPUT POWER

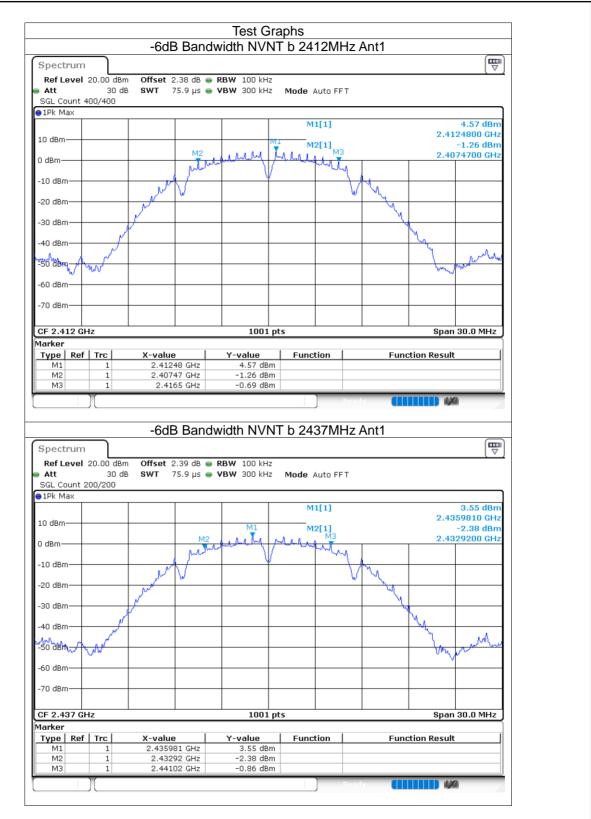
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.8	30	Pass
NVNT	b	2437	Ant1	13.69	30	Pass
NVNT	b	2462	Ant1	13.34	30	Pass
NVNT	g	2412	Ant1	12.75	30	Pass
NVNT	g	2437	Ant1	12.47	30	Pass
NVNT	g	2462	Ant1	12.23	30	Pass
NVNT	n20	2412	Ant1	12.79	30	Pass
NVNT	n20	2437	Ant1	12.46	30	Pass
NVNT	n20	2462	Ant1	12.14	30	Pass



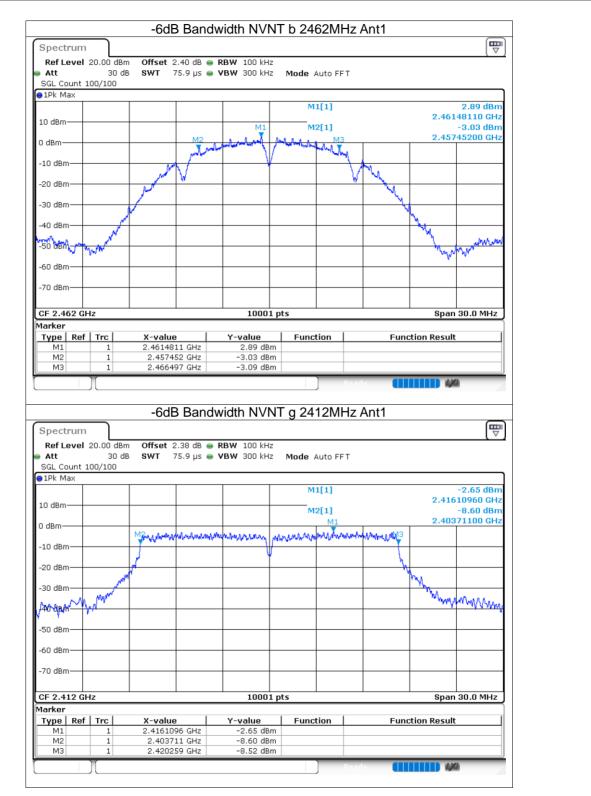
## 8.3 -6DB BANDWIDTH

	JANDWID					
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.03	0.5	Pass
NVNT	b	2437	Ant1	8.1	0.5	Pass
NVNT	b	2462	Ant1	9.045	0.5	Pass
NVNT	g	2412	Ant1	16.548	0.5	Pass
NVNT	g	2437	Ant1	16.347	0.5	Pass
NVNT	g	2462	Ant1	16.341	0.5	Pass
NVNT	n20	2412	Ant1	17.799	0.5	Pass
NVNT	n20	2437	Ant1	17.586	0.5	Pass
NVNT	n20	2462	Ant1	17.595	0.5	Pass

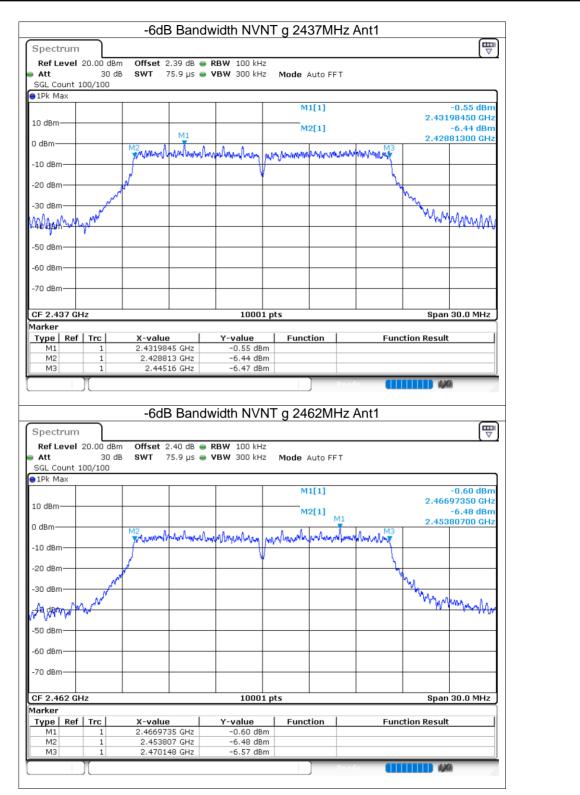




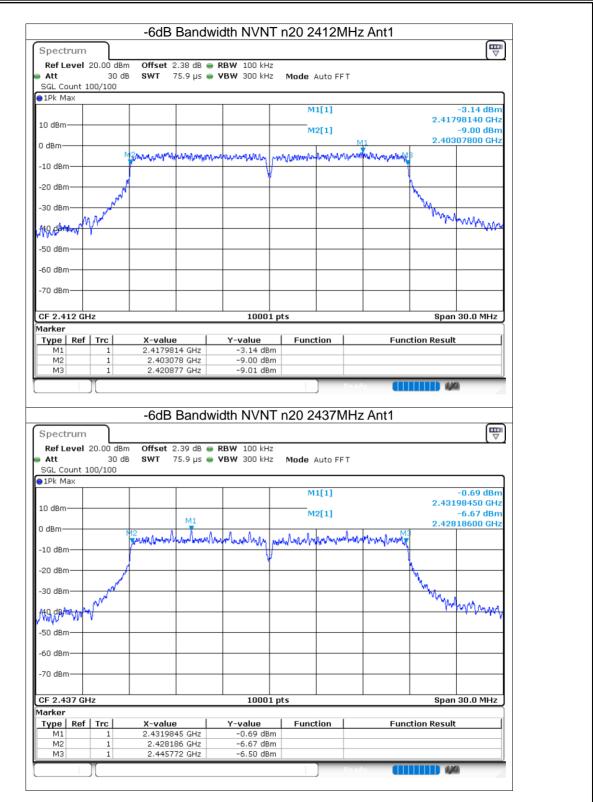














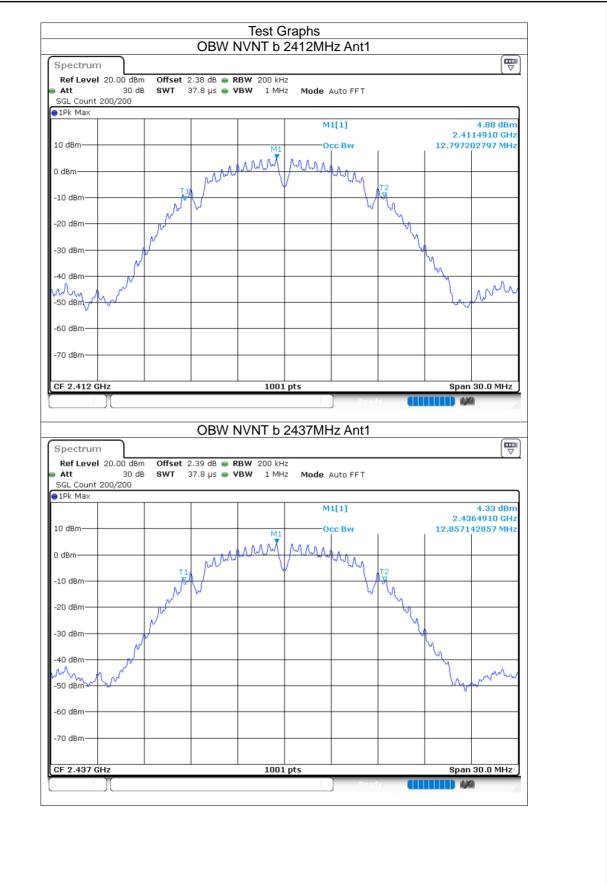
Spectru	m						
Ref Lev	el 20.00 de	3m Offset 2.40 dB 🖷	• RBW 100 kHz				
Att	30	dB <b>SWT</b> 75.9 µs 🧉	• VBW 300 kHz	Mode Auto FFT			
SGL Coun 1Pk Max	t 100/100						
)1РК Мах	1			M1[1]			1.00 dBm
				MILI		2 466	-1.09 dBm 597050 GHz
10 dBm—				M2[1]		2.400	-6.97 dBm
) dBm——				M1		2.453	317700 GHz
J UBM		M2 manumenter	when h has see ships a super-	Moundannah	Manager Ma		
-10 dBm—		Mind Olympich anothera		of further all Brokers a state of the	And the second second second		
			V V		_   _ i		
-20 dBm—						N	
-30 dBm—						Mry	
-30 aBm	and a M					The	mman
40/d8m-	1000					/	www.
. W.							
-50 dBm—							
-60 dBm—							
-70 dBm—							
/ o ubiii							
CF 2.462	GHz		10001 pt	· · · · · · · · · · · · · · · · · · ·		Snar	1 30.0 MHz
larker			10001 pt			opai	
	ef   Trc	X-value	Y-value	Function	Fund	tion Result	t í
M1	1	2.4669705 GHz	-1.09 dBm				
M2	1	2.453177 GHz	-6.97 dBm				
MЗ	1	2.470772 GHz	-6.95 dBm				



### 8.4 OCCUPIED CHANNEL BANDWIDTH

			-	
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.797
NVNT	b	2437	Ant1	12.857
NVNT	b	2462	Ant1	12.827
NVNT	g	2412	Ant1	16.711
NVNT	g	2437	Ant1	16.615
NVNT	g	2462	Ant1	16.693
NVNT	n20	2412	Ant1	17.974
NVNT	n20	2437	Ant1	17.665
NVNT	n20	2462	Ant1	17.74





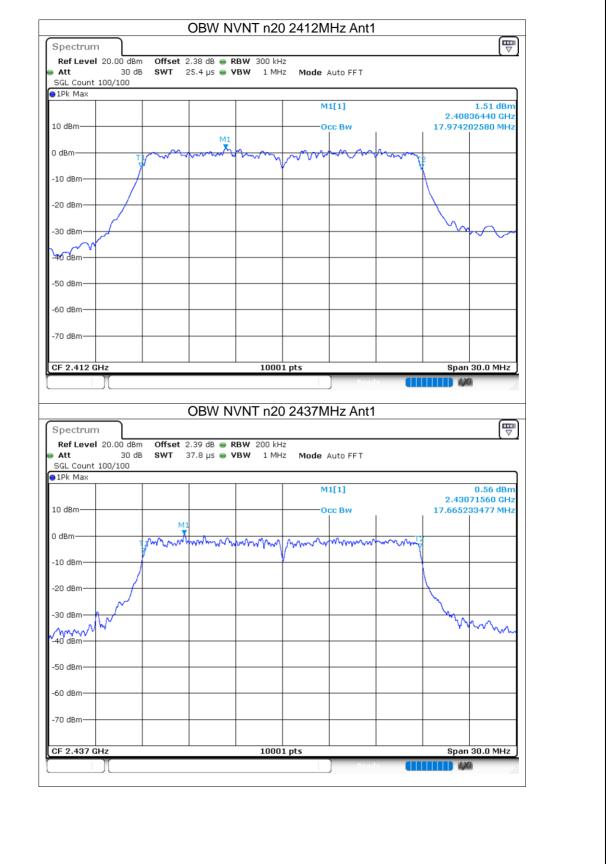






Spectrum Ref Level 20.00	dBm Offset	2.39 dB 😑 RBW	200 kHz				
Att	30 dB <b>SWT</b>	37.8 µs 🖷 VBW		e Auto FFT			
SGL Count 100/1 1Pk Max	00						
				M1[1]			0.33 dBm
10 dBm				-Occ Bw			26480 GHz 38466 MHz
				11		10.0100	501001112
0 dBm	TALAM	mmmm	more word	hommon	m .m		
	1				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
-10 dBm							
-20 dBm							
						X	
-30 dBm						Jun -	mon
-40 dBm							
-50 dBm		+					
-60 dBm							
-70 dBm		+					
CF 2.437 GHz			10001 pts			Span	30.0 MHz
Spectrum Ref Level 20.00		2.40 dB 🖷 RBW	NT g 2462N	/Hz Ant1			
Spectrum Ref Level 20.00	30 dB <b>SWT</b>		NT g 2462N	MHz Ant1 e Auto FFT			
Spectrum Ref Level 20.00 Att SGL Count 100/1	30 dB <b>SWT</b>	2.40 dB 🖷 RBW	NT g 2462N	e Auto FFT	aiiii		
Spectrum Ref Level 20.00 Att SGL Count 100/1	30 dB <b>SWT</b>	2.40 dB 🖷 RBW	NT g 2462N				-0.46 dBm
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max	30 dB <b>SWT</b>	2.40 dB 🖷 RBW	NT g 2462N	e Auto FFT		2.455	
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max 10 dBm	30 dB SWT	2.40 dB 🖷 RBW	NT g 2462N	e Auto FFT M1[1]		2.455	-0.46 dBm 94060 GHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max 10 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455	-0.46 dBm 94060 GHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 DIPK Max 10 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455	-0.46 dBm 94060 GHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max 10 dBm -10 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455	-0.46 dBm 94060 GHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 DIPK Max 10 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455	-0.46 dBm 94060 GHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max 10 dBm -10 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.0( Att SGL Count 100/1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max 10 dBm -10 dBm -20 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.0( Att SGL Count 100/1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.0( Att SGL Count 100/1 IPk Max I0 dBm	30 dB SWT	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 IPk Max I0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm	30 dB SWT 00	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.0( Att SGL Count 100/1 IPk Max I0 dBm	30 dB SWT 00	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.0( Att SGL Count 100/1 PR Max 10 dBm	30 dB SWT 00	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz
Spectrum Ref Level 20.00 Att SGL Count 100/1 IPk Max I0 dBm O dBm10 dBm20 dBm30 dBm50 dBm60 dBm60 dBm	30 dB SWT 00	2.40 dB ● RBW 37.8 µs ● VBW	NT g 2462N	e Auto FFT M1[1] -Occ Bw		2.455 16.6933	-0.46 dBm 94060 GHz 30667 MHz







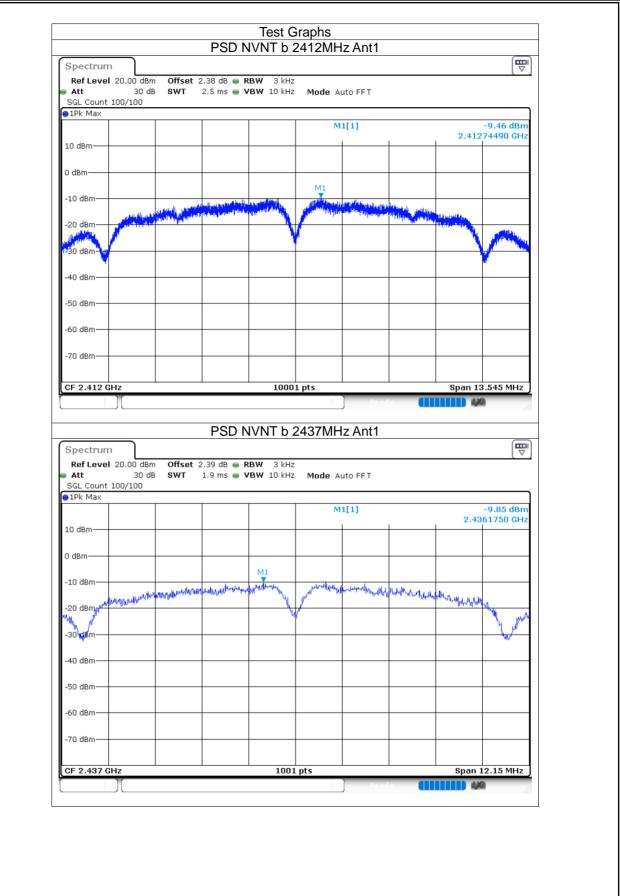
Spectrum Ref Level 20.0		2.40 dB 🖷 RI						
Att SGL Count 100/1	30 dB <b>SWT</b> 00	37.8 µs 🖷 VI	3 <b>W</b> 1 MH	z Mode	Auto FFT			
1Pk Max								
				м	1[1]		2,458	-0.97 dBm 44540 GHz
10 dBm				o	cc Bw			25977 MHz
		M1						
) dBm	TIMM	mmmm	man	many	man	mmmm		
10 dBm			}	ľ		¥		
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20 dBm							$\rightarrow$	
							~	
30 dBm							- M	mm
HØ dBm								L L VV
50 dBm								
60 dBm								
60 dBm								
70 dBm								



### 8.5 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-9.46	8	Pass
NVNT	b	2437	Ant1	-9.85	8	Pass
NVNT	b	2462	Ant1	-9.81	8	Pass
NVNT	g	2412	Ant1	-13.59	8	Pass
NVNT	g	2437	Ant1	-13.88	8	Pass
NVNT	g	2462	Ant1	-14	8	Pass
NVNT	n20	2412	Ant1	-13.48	8	Pass
NVNT	n20	2437	Ant1	-13.64	8	Pass
NVNT	n20	2462	Ant1	-13.91	8	Pass





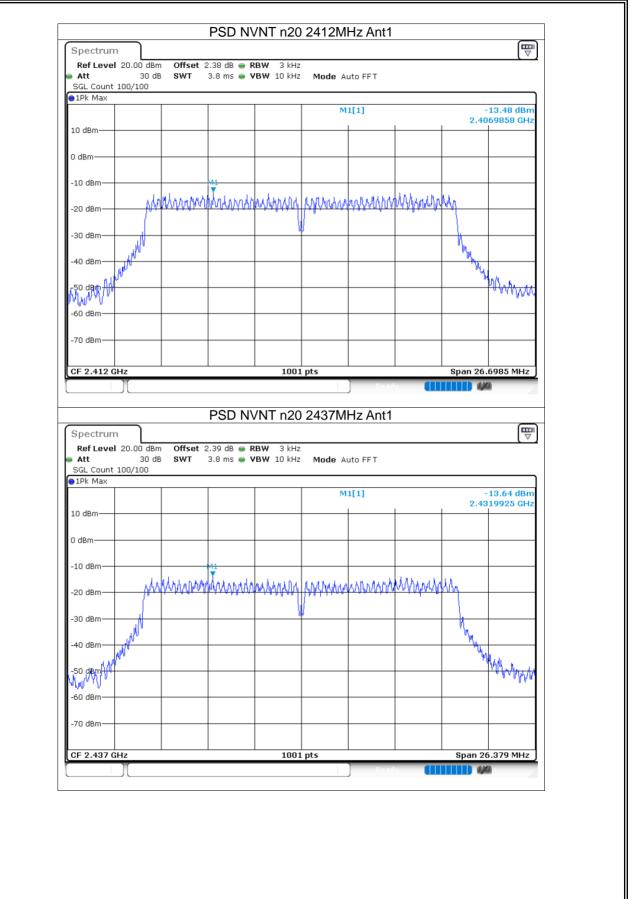


10 dBm     M1[1]     -9.81 c       10 dBm     2.4626503       0 dBm     M1       -10 dBm     M1       -20 dBm     M1       -30 dBm     -0.00000000000000000000000000000000000	GHZ
10 dBm     M1[1]     -9.81 (2.4626503)       10 dBm     0 dBm     0.00000000000000000000000000000000000	GHZ
10 dBm         M1[1]         -9.81 (2.4626503)           0 dBm         2.4626503         2.4626503           0 dBm         M1         -0.00000000000000000000000000000000000	GHZ
10 dBm 0 dBm -10 dBm -20 dBm -30 dB	
0 dBm -10 dBm -20 dBm -30 d	- Marcheller
-10 dBm -20 dBm -20 dBm -30 dBm -20	- Juny My Jung
-10 dBm -20 dBm -30 dBm	- Hogely Land
-30 dBm	- Un Mala
-30 dBm	heling by the state
-30 dBm	- Un flyher
	1 - N
40 dbm	
-50 dBm-	
-60 dBm	
-70 dBm	
CF 2.462 GHz 1001 pts Span 13.5675 №	инz
Ready (	
SGL Count 100/100 1Pk Max	1
M1[1] -13.59	
2.4063460	
10 dBm	
10 dBm	
10 dBm 2.4063460	
10 dBm         2.4063460           0 dBm         2.003460           -10 dBm         -10 dBm           -10 dBm         -10 dBm	
10 dBm 2.4063460 0 dBm	
10 dBm 2.4063460 0 dBm	
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm	
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm	
10 dBm     2.4063460       0 dBm     0       10 dBm     10 dBm       20 dBm     10 dBm       30 dBm     10 dBm	
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm	
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm     10 dBm       -20 dBm     10 dBm       -30 dBm     10 dBm       -30 dBm     10 dBm       -40 dBm     10 dBm	
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm     10 dBm       -20 dBm     10 dBm       -30 dBm     10 dBm       -40 dBm     10 dBm       -40 dBm     10 dBm       -40 dBm     10 dBm       -40 dBm     10 dBm	
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm     10 dBm       -20 dBm     10 dBm       -30 dBm     10 dBm       -40 dBm     10 dBm       -40 dBm     10 dBm       -40 dBm     10 dBm       -40 dBm     10 dBm	
10 dBm     2.4063460       0 dBm     10 dBm       -10 dBm     10 dBm       -20 dBm	WA
10 dBm     2.4063460       0 dBm     0 dBm       -10 dBm     1       -20 dBm     1       -30 dBm     1       -40 dBm     1       -70 dBm     1       -70 dBm     1       -70 dBm     1	y GHz



SGL Count 100/100			Mode Auto FFT			_
THK MIGY			M1[1]		-13.88	
10 dBm					2.4313418	GHz
0 dBm						
o ubiii						
-10 dBm	I					
-20 dBm	งปรุญภายีสีสมุกก	nananananan	proposition	ananana	1/24	
-30 dBm		V			h.	
-30 dBm					Muy hu	
-+0 dBill					WWWWW	4
-\$0 dBm WWW					- NAV	∆n <mark>v</mark> 4
-60 dBm						
-70 dBm						
CF 2.437 GHz		1001	pts		Span 24.5205 N	1Hz
				eauy	NAME:	In
	P	SD NVNT g 2	2462MHz Ant	1		
Spectrum Ref Level 20.00	dBm Offset 2.40 (	dB 😑 RBW 3 kHz				
	nda <b>ewr</b> bon					
Att 31		ns 👄 <b>VBW</b> 10 kHz	Mode Auto FFT			_
Att 31		ns <b>e VBW</b> 10 kHz	Mode Auto FFT M1[1]		-14.00	
Att 31		ms 👄 VBW 10 kHz			-14.00 2.4563433	
Att 30 SGL Count 100/100 1Pk Max		ns • VBW 10 kHz				
Att 31     SGL Count 100/100     IPk Max     10 dBm     0 dBm		ns • VBW 10 kHz				
Att 33 SGL Count 100/100 PIPk Max 10 dBm 0 dBm -10 dBm			M1[1]		2.4563433	
Att 33 SGL Count 100/100 PIPk Max 10 dBm 0 dBm -10 dBm			M1[1]	MANA ANA	2.4563433	
Att 31 SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm			M1[1]		2.4563433	
Att 33 SGL Count 100/100 P1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm			M1[1]	MANA MANA	2.4563433	
Att 31 SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm			M1[1]	. <u></u>	2.4563433	
Att 33 SGL Count 100/100 P1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm			M1[1]		2.4563433	
Att 33 SGL Count 100/100 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm			M1[1]		2.4563433	
Att 33 SGL Count 100/100 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm			M1[1]		2.4563433	
Att 33 SGL Count 100/100 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm			M1[1]		2.4563433	
Att 33 SGL Count 100/100 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -60 dBm					2.4563433	GHZ
Att 33 SGL Count 100/100 TPK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -70 dBm -70 dBm						GHZ







Ref Level Att	20.00 dBm 30 dB		2.40 dB 👄 F 3.8 ms 👄 🎙	BW 3 kHz BW 10 kHz		uto FFT			
SGL Count 1 1Pk Max	.00/100								
TEK Max					м	1[1]			13.91 dBm 69908 GHz
10 dBm									
D dBm									
-10 dBm			vii V						
-20 dBm		MARINA	Annah	MANAMANA	ASABASAA	AARAAAAA	WALLAN	444	
	1								
-30 dBm	wh				*			hu	
40 dBm	414							· Wash	histi ii
50 dem									" WWW
-60 dBm									
-70 dBm									



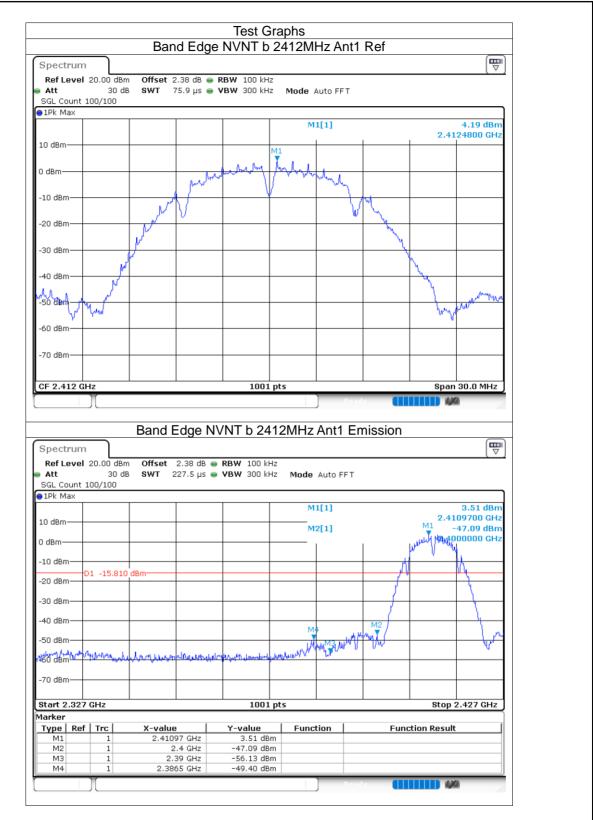
# 8.6 BAND EDGE

8.6 BANI	D EDGE					
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.59	-20	Pass
NVNT	b	2462	Ant1	-56.58	-20	Pass
NVNT	g	2412	Ant1	-44.32	-20	Pass
NVNT	g	2462	Ant1	-46.4	-20	Pass
NVNT	n20	2412	Ant1	-45.48	-20	Pass
NVNT	n20	2462	Ant1	-42.49	-20	Pass

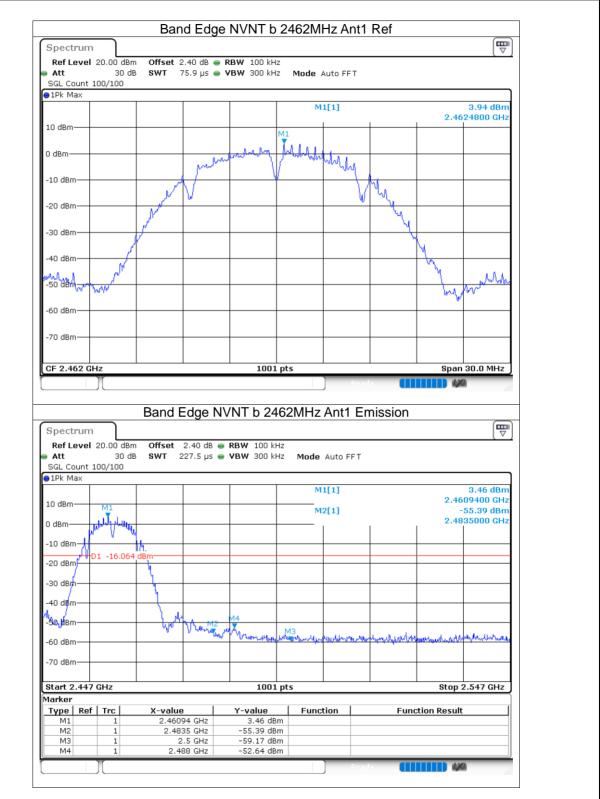
ACCREDITED

Certificate #4298.01











C		Danc	Luge	NVNT g			INCI		Ē	n
Spectrur	m el 20.00 dBm	Offcot 0	20 d0 🔿 🛛	DW 100 kU-						
Att	ei 20.00 aBm 30 dB			<b>RBW</b> 100 kHz <b>/BW</b> 300 kHz		uto FFT				
SGL Count	t 100/100									
⊖1Pk Max				<del>, , , , , , , , , , , , , , , , , , , </del>					0.01.40	
		1			M1	[1]		2.4	-2.91 dBm 167350 GHz	
10 dBm		<u> </u>								
0 dBm	+					M1				1
10 -10		proprise	handhann	mannandy	windpharene	white way wo	Mundany			
-10 dBm—				T V						1
-20 dBm—							L Y			]
	d	r I						MA .	Wingq	
-30 dBm—		<b>└──</b>						Υų,		4
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.£0,98m~~		<u>├</u>						1	ANA ADAOPU	A
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Ref Leve           Att           SGL Count           SGL Count           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           Start 2.32           Marker           Type           M1           M2	el 20.00 dBm 30 dB 100/100 D1 -22.909 01 -22.900 01 -22.9000 01 -22.9000 01 -22.9000 01 -22.9000 01 -22.9000 01 -22.90000 01 -22.900000000000000000000000000000000000	Offset 2     SWT 22     SWT 22     dBm     dBm     dBm     constant of the second	2.38 dB 2.38 dB 2.35 μs 4 GHz 	RBW 100 kH VBW 300 kH	IZ IZ Mode A M11 M2 M2 I I I I I I I I I I I I I	Auto FF T	112 112	2.4 Pride-dry polority	-2.61 dBm 179600 GHz -35.41 dBm 00000 GHz	
Ref Leve           Att           SGL Count           SGL Count           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.32           Marker           Type         Ref	el 20.00 dBm 30 dB 100/100	Offset 2     SWT 22     SWT 22     dBm     dBm     dBm     constant of the second	2.38 dB 27.5 μs 27.5	RBW 100 kH VBW 300 kH	IZ Mode A M1  M2  M2  M2  M2  M2  M2  M2  M2	Auto FF T	112 112	2.4 Pride-dry polority	-2.61 dBm 179600 GHz -35.41 dBm 00000 GHz	



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Ref Level         20.00 dt           Att         30           SGL         Count         100/100           )1Pk         Max           10 dBm         10 dBm	Bm <b>Offset</b> 2.40 d	iB 👄 <b>RBW</b> 100 kH	iz Iz <b>Mode</b> Auto F		2.45	-3.42 dBm 45400 GHz 46.81 dBm
Ref Level         20.00 df           Att         30           SGL Count         100/100           PIPk Max         10           L0 dBm         10	Bm Offset 2.40 d dB SWT 227.5 µ	iB 👄 <b>RBW</b> 100 kH	iz Mode Auto F M1[1]		2.45	-3.42 dBm 45400 GHz
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Ref Level         20.00 df           Att         30           SGL Count         100/100           IPk Max         30           0 dBm         10           10 dBm         10	Bm Offset 2.40 d dB SWT 227.5 μ	iB 👄 <b>RBW</b> 100 kH	iz Mode Auto F M1[1]		2.45	-3.42 dBm 45400 GHz 46.81 dBm
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Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           0 dBm         10           10 dBm         10           20 dBm         D1           20 dBm         30	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1]		2.45	-3.42 dBm 45400 GHz 46.81 dBm
Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           0 dBm         10           10 dBm         10           20 dBm         D1           -20 dBm         -20.40           30 dBm         -1	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1]		2.45	-3.42 dBm 45400 GHz 46.81 dBm
Ref Level         20.00 df           Att         30           SGL Count         100/100           1PK Max         30           0 dBm         10           10 dBm         10           20 dBm         D1           20 dBm         D1           30 dBm         40 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1]		2.45	-3.42 dBm 45400 GHz 46.81 dBm
Ref Level         20.00 df           Att         30           SGL Count         100/100           11Pk Max         30           0 dBm         10           10 dBm         10           20 dBm         D1           20 dBm         D1           30 dBm         50 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1]	FT	2.45	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           11Pk Max         30           0 dBm         10           10 dBm         10           20 dBm         D1           20 dBm         50 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1]	FT	2.45	-3.42 dBm 45400 GHz 46.81 dBm
Ref Level         20.00 df           Att         30           SGL Count         100/100           PIPk Max         30           10 dBm         10           10 dBm         10           20 dBm         D1           20 dBm         D1           30 dBm         60 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	iB 👄 <b>RBW</b> 100 kH	12 12 Mode Auto F M1[1] M2[1]	FT	2.45	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           .0 dBm         10           .0 dBm         01           .20 dBm         01	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	FT	2.45 - 2.48 	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           11Pk Max         30           10 dBm         10           10 dBm         10           20 dBm         10           20 dBm         10           30 dBm         10           20 dBm         10           30 dBm         10           30 dBm         10           40 dBm         50 dBm           50 dBm         60 dBm           70 dBm         30           30 dBm         40	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	FT	2.45 - 2.48 	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           10 dBm         10           10 dBm         10           10 dBm         10           20 dBm         10           30 dBm         10           -20 dBm         01           -30 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	IB • RBW 100 kH	12 12 Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	FT	2.45 - 2.48 	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           10 dBm         10           10 dBm         10           20 dBm         10           20 dBm         10           30 dBm         10           40 dBm         10           30 dBm         10           -50 dBm         -60 dBm           -70 dBm         -70 dBm           Start 2.447 GHz         Tarker           Type         Ref         Trc           M1         1         1	Bm Offset 2.40 d dB SWT 227.5 µ	B         RBW 100 kH           IS         VBW 300 kH	12 12 Mode Auto F M1[1] M2[1] M2[1] M3 M3 M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	FT	2.45 - 2.48 	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           10 dBm         10           10 dBm         10           20 dBm         10           40 dBm         10           30 dBm         10           40 dBm         10           20 dBm         01           -20 dBm         01           -30 dBm         -20.40           -30 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	IB       •       RBW       100 kH         IS       •       VBW       300 kH	2 Mode Auto F M1[1] M2[1] M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	FT	2.45 - 2.48 	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz
Ref Level         20.00 df           Att         30           SGL Count         100/100           1Pk Max         30           10 dBm         10           10 dBm         10           20 dBm         10           40 dBm         10           30 dBm         10           40 dBm         10           20 dBm         01           -20 dBm         01           -30 dBm         -20.40           -30 dBm	Bm Offset 2.40 d dB SWT 227.5 µ	M2 1001 Y-value 	2 2 Mode Auto F M1[1] M2[1] M2[1] M2[1] M3 M3 M3 M3 M4 M3 M4 M4 M3 M4	FT	2.45 - 2.48 	-3.42 dBm 45400 GHz 46.81 dBm 35000 GHz



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Ref Level 20 Att SGL Count 100 )1Pk Max 10 dBm	.00 dBm 30 dB	Offset	2.38 dB 🧉	/NT n20 2	Hz Hz Hz Mode	e Auto FFT M1[1]	M	n 2.4	-2.87 dBn +057700 GH: -37.28 dBn	
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Ref Level         20           Att         SGL Count 100           IPk Max         10 dBm           10 dBm	.00 dBm 30 dB	Offset SWT 2	2.38 dB 🧉	/NT n20 2	Hz Hz Hz Mode	e Auto FFT M1[1]	M	<b>n</b> 2.4 1 2.4	-2.87 dBn +057700 GH: -37.28 dBn	
Ref Level         20           Att         SGL Count         100           1Pk Max         10         dBm           10 dBm	.00 dBm 30 dB //100	Offset SWT 2	2.38 dB 🧉	/NT n20 2	Hz Hz Hz Mode	e Auto FFT M1[1]	Market State	<b>n</b> 2.4 1 2.4	-2.87 dBn +057700 GH: -37.28 dBn	
Ref Level         20           Att         SGL Count         100           10 dBm         0         0	.00 dBm 30 dB //100	Offset SWT 2	2.38 dB 🧉	/NT n20 2	Hz Hz Hz Mode	e Auto FFT M1[1]	M	<b>n</b> 2.4 1 2.4	-2.87 dBn +057700 GH: -37.28 dBn	
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Ref Level         20           Att         SGL Count         100           1Pk Max         10         dBm           10 dBm         10         dBm           -10 dBm	.00 dBm 30 dB //100	Offset SWT 2	2.38 dB 2.27.5 μs 2.27.5 μs	/NT n20 2	412MH Hz Hz Mode	e Auto FFT M1[1] M2[1]	Ma Maria	<b>n</b> 2.4 1 2.4	-2.87 dBn i057700 GH: -37.28 dBn i00000 GH:	
Ref Level         20           Att         SGL Count         100           ) IPk Max         10         dBm           10         dBm	.00 dBm 30 dB 1/100	Offset SWT 2	2.38 dB 2.27.5 μs 2.27.5 μs	/NT n20 2	412MH Hz Hz Mode	e Auto FFT M1[1] M2[1]	Ma Maria	<b>n</b> 2.4 1 2.4	-2.87 dBn i057700 GH: -37.28 dBn i00000 GH:	
Ref Level         20           Att         SGL Count 100           IPk Max         10           IO dBm         10           10 dBm         10           20 dBm         D1           30 dBm         D1           30 dBm         50           40 dBm         50	.00 dBm 30 dB 1/100	Offset SWT 2	2.38 dB 2.27.5 μs 2.27.5 μs	/NT n20 2	412MH Hz Hz Mode	e Auto FFT M1[1] M2[1]	Ma Maria	<b>n</b> 2.4 1 2.4	-2.87 dBn i057700 GH: -37.28 dBn i00000 GH:	
Ref Level         20           Att         SGL Count 100           IPk Max         10           IO dBm         10           10 dBm         10           20 dBm         D1           30 dBm         D1           30 dBm         50           40 dBm         50	.00 dBm 30 dB 1/100	Offset SWT 2	2.38 dB 2.27.5 μs 2.27.5 μs	/NT n20 2	412MH Hz Hz Mode	e Auto FFT M1[1] M2[1]	Ma Maria	<b>n</b> 2.4 1 2.4	-2.87 dBn i057700 GH: -37.28 dBn i00000 GH:	
Ref Level         20           Att         SGL Count 100           SGL Count         100           IPK Max         10           10 dBm         10           -10 dBm         10           -20 dBm         D1           -30 dBm         10           -40 dBm         0           -50 dBm         -0           -70 dBm         -70	.00 dBm 30 dB /100	Offset SWT 2	2.38 dB 2.27.5 μs 2.27.5 μs	/NT n20 2	412MH	e Auto FFT M1[1] M2[1]	Ma Maria	2.< 1 2.<	-2.87 dBn 4057700 GH: -37.28 dBn 400000 GH: -400000 GH:	
Ref Level         20           Att         SGL Count 100           SGL Count 100         IPK Max           10 dBm         ID           10 dBm         ID           10 dBm         ID           20 dBm         ID           30 dBm         ID           40 dBm         ID           50 dBm         ID           50 dBm         ID           60 dBm         ID           70 dBm         ID	.00 dBm 30 dB /100	Offset SWT 2	2.38 dB 2.27.5 μs 2.27.5 μs	/NT n20 2	412MH	e Auto FFT M1[1] M2[1]	Ma Maria	2.< 1 2.<	-2.87 dBn i057700 GH: -37.28 dBn i00000 GH:	
Ref Level         20           Att         SGL Count 100           SGL Count         100           IPk Max         10           10 dBm         10           -10 dBm         10           -30 dBm         01           -30 dBm         01           -50 dBm         01           -70 dBm         10           -70 dBm         10           -70 dBm         10           -70 dBm         10	.00 dBm 30 dB /100 -19.754	Offset SWT 2	2.38 dB 2.27.5 μs 4.,	/NT n20 2	412MH	e Auto FFT M1[1] M2[1]	Markan Markan Markan Markan Markan Markan	2.< 1 2.<	-2.87 dBn H057700 GH: -37.28 dBn H000000 GH: -37.28 dbn H000000 GH: 	
Ref Level         20           Att         SGL Count 100           IPk Max         100           IO dBm         100           -10 dBm         100           -20 dBm         D1           -30 dBm         -01           -70 dBm         -01	-19.754	Offset SWT 2 dBm والمحسب مراجع مالمحسب مراجع X-value 2.405	2.38 dB 2.7.5 μs 2.7.5 μs 4. dynuw <sup>4</sup> ll	/NT n20 2	412MH	e Auto FFT M1[1] M2[1] M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Markan Markan Markan Markan Markan Markan	2.4 1	-2.87 dBn H057700 GH: -37.28 dBn H000000 GH: -37.28 dbn H000000 GH: 	
Ref Level         20           Att         SGL Count 100           SGL Count 100         IPk Max           10 dBm         -           0 dBm         -           -10 dBm         -           -20 dBm         D1           -30 dBm         -           -40 dBm         -           -50 dBm         -           -60 dBm         -           -70 dBm         - <tr< td=""><td>-19.754</td><td>Offset SWT 2 مالیسترساری (۲۵۵۲) مالیسترساری (۲۵۵۶) X-value 2.4057 2</td><td>2.38 dB 2.7.5 μs 2.7.5 μs 4.27.5 μs 2.7.5 μs</td><td>/NT n20 2 RBW 100 kH VBW 300 kH</td><td>412MH</td><td>e Auto FFT M1[1] M2[1] M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4</td><td>Markan Markan Markan Markan Markan Markan</td><td>2.4 1 2.4 1 2.4 1</td><td>-2.87 dBn H057700 GH: -37.28 dBn H000000 GH: -37.28 dbn H000000 GH: </td><td></td></tr<>	-19.754	Offset SWT 2 مالیسترساری (۲۵۵۲) مالیسترساری (۲۵۵۶) X-value 2.4057 2	2.38 dB 2.7.5 μs 2.7.5 μs 4.27.5 μs 2.7.5 μs	/NT n20 2 RBW 100 kH VBW 300 kH	412MH	e Auto FFT M1[1] M2[1] M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Markan Markan Markan Markan Markan Markan	2.4 1	-2.87 dBn H057700 GH: -37.28 dBn H000000 GH: -37.28 dbn H000000 GH: 	
Att           SGL Count 100           SGL Count 100           IPk Max           10 dBm           -10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm	-19.754	Offset SWT 2 dBm- db/2004_05_01 X-value 2.4051 2 2.3	2.38 dB 2.7.5 μs 2.7.5 μs 4. dynuw <sup>4</sup> ll	/NT n20 2	412MH	e Auto FFT M1[1] M2[1] M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Markan Markan Markan Markan Markan Markan	2.4 1	-2.87 dBn H057700 GH: -37.28 dBn H000000 GH: -37.28 dbn H000000 GH: 	



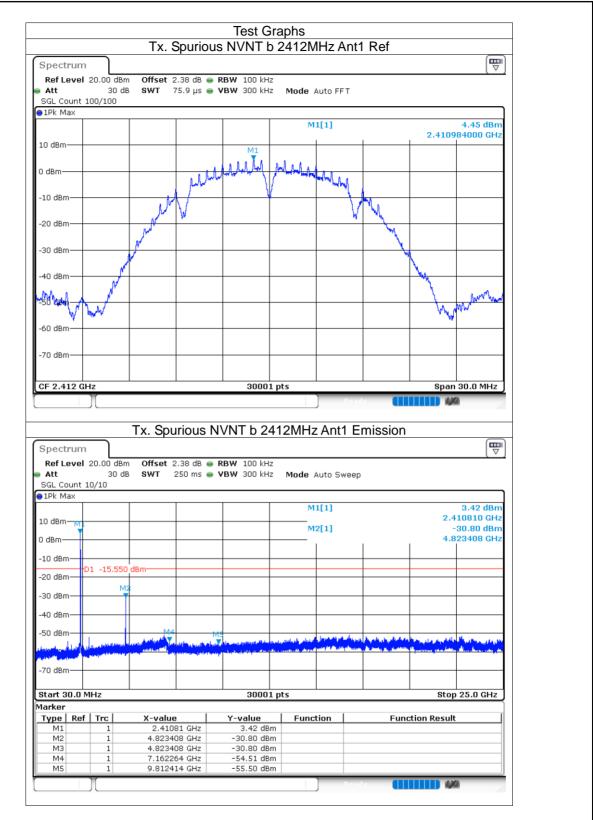




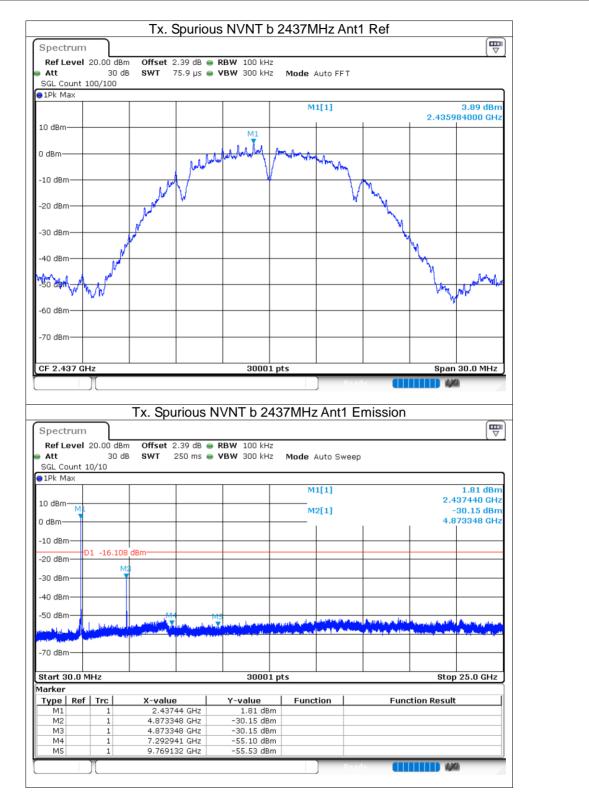
# 8.7 CONDUCTED RF SPURIOUS EMISSION

	_		-			
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-35.25	-20	Pass
NVNT	b	2437	Ant1	-34.03	-20	Pass
NVNT	b	2462	Ant1	-32.99	-20	Pass
NVNT	g	2412	Ant1	-42.91	-20	Pass
NVNT	g	2437	Ant1	-39.4	-20	Pass
NVNT	g	2462	Ant1	-39.06	-20	Pass
NVNT	n20	2412	Ant1	-39.36	-20	Pass
NVNT	n20	2437	Ant1	-41.48	-20	Pass
NVNT	n20	2462	Ant1	-38.51	-20	Pass

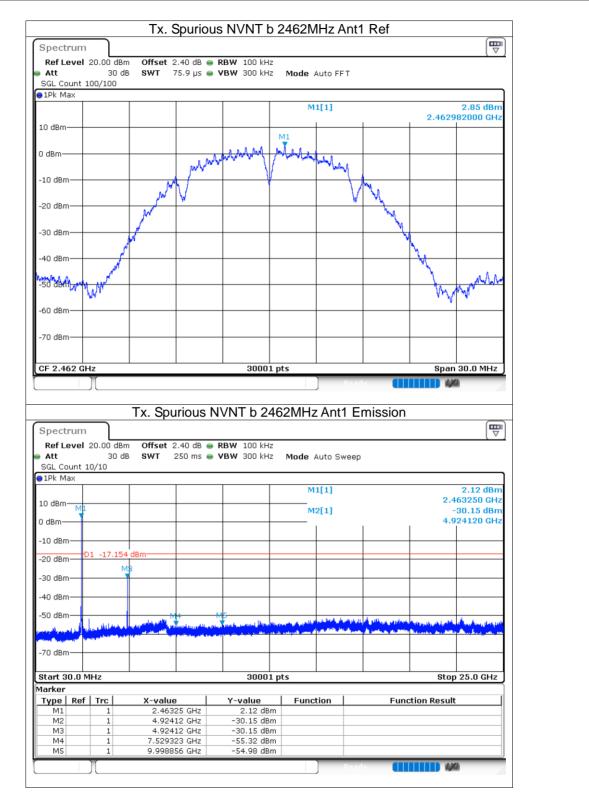














		_	17.	Opuno	us NVNT	g 2412ivii	12 AIII				
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Ref Le Att	evel	20.00 de ، 30			● RBW 100 kH ● VBW 300 kH		Ito EET				
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⊜1Pk Ma	ж										
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-30 dBm	+	A		+					"N		
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140 dent	* * *	V		1							
-50 dBm				_							
-60 dBm	+										
-70 dBm	+			1						+	
CF 2.41	2 GH	iz ) [	Tx. Sp	urious		412MHz	Read Ant1 E	mission	Spa	n 30.0 M	Hz
		Iz	Tx. Sp	urious	1001 NVNT g 2		Read Ant1 E	mission	Spa	n 30.0 M	
Spectr Ref Le	um	20.00 dE	m Offset	2.38 dB (	NVNT g 2	412MHz			Spa	n 30.0 M	
Spectr Ref Le Att	rum evel :	20.00 dB 30 (	m Offset	2.38 dB (	NVNT g 2	412MHz	Read Ant1 E uto Sweep		Spa	n 30.0 M	
Spectr Ref Le Att SGL Co	um evel :: unt 1	20.00 dB 30 (	m Offset	2.38 dB (	NVNT g 2	412MHz			Spa	n 30.0 M	
Spectr Ref Le Att SGL Col 1Pk Ma	um evel :: unt 1	20.00 dB 30 (	m Offset	2.38 dB (	NVNT g 2	412MHz	uto Sweep		Spa	-3.24 d	IBM
Spectr Ref Le Att SGL Co 1Pk Ma	um evel :: unt 1	20.00 dB 30 (	m Offset	2.38 dB (	NVNT g 2	412MHz	uto Sweep [1]		Spa		IBm GHz
Spectr Ref Le Att SGL Col 1Pk Ma 10 dBm-	um evel :: unt 1	20.00 dB 30 (	m Offset	2.38 dB (	NVNT g 2	412MHz	uto Sweep [1]			-3.24 d 2.4230 d	₩
Spectr Ref Le Att SGL Coi 1Pk Ma 10 dBm- 0 dBm-	rum evel : unt 1 ex	20.00 dB 30 (	m Offset	2.38 dB (	NVNT g 2	412MHz	uto Sweep [1]			-3.24 d 2.4230 d -42.64 d	₩
Spectr Ref Le Att SGL Coo 1Pk Ma 10 dBm- 0 dBm- -10 dBm	unt 1	)( 20.00 dB 30 d 0/10	m Offset dB SWT	2.38 dB (	NVNT g 2	412MHz	uto Sweep [1]			-3.24 d 2.4230 d -42.64 d	₩
Spectr Ref Le Att SGL Cor 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm	unt 1	20.00 dB 30 (	m Offset dB SWT	2.38 dB (	NVNT g 2	412MHz	uto Sweep [1]			-3.24 d 2.4230 d -42.64 d	₩
Spectr Ref Le Att SGL Cor 10 dBm- 10 dBm- -10 dBm- -20 dBm	rum evel : ax	20.00 dE 30 ( 0/10	m Offset dB SWT	2.38 dB (	NVNT g 2	412MHz	uto Sweep [1]			-3.24 d 2.4230 d -42.64 d	₩
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Spectr Ref Le Att SGL Cor 10 dBm- 0 dBm- -10 dBm- -20 dBm -30 dBm	unt 1 ax	20.00 dE 30 0 0/10	m Offset JB SWT	2.38 dB ( 265 ms (	NVNT g 2	412MHz	uto Sweep [1] [1]			-3.24 c 2.4230 ( -42.64 c 4.8211 (	iBm GHz iBm GHz
Spectr Ref Le Att SGL Co 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm	M1	20.00 dE 30 ( 0/10	m Offset dB SWT	2.38 dB ( 265 ms (	NVNT g 2	412MHz	11]		5pa	-3.24 c 2.4230 ( -42.64 c 4.8211 (	iBm GHz iBm GHz
Spectr Ref Le SGL Coo 1Pk Ma 10 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	vum svel : unt 1 ix	20.00 dE 30 0 0/10	m Offset JB SWT	2.38 dB ( 265 ms (	NVNT g 2	412MHz	uto Sweep [1] [1]			-3.24 c 2.4230 ( -42.64 c 4.8211 (	iBm GHz iBm GHz
Spectr Ref Le SGL Coo 1Pk Ma 10 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	vum svel : unt 1 ix	20.00 dE 30 0 0/10	m Offset JB SWT	2.38 dB ( 265 ms (	NVNT g 2	412MHz	uto Sweep [1] [1]			-3.24 c 2.4230 ( -42.64 c 4.8211 (	iBm GHz iBm GHz
Spectr Ref Le Att SGL Cor 10 dBm- 0 dBm- -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 30	MI MI	20.00 dE 30 0 0/10	m Offset JB SWT	2.38 dB ( 265 ms (	NVNT g 2	412MHz	uto Sweep [1] [1]			-3.24 c 2.4230 ( -42.64 c 4.8211 (	iBm GHz iBm GHz iBm GHz
Spectr Ref Le Att SGL Cor 10 dBm- 0 dBm- -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 30 Marker	MI D.0 M	20.00 dE 30 ( 0/10 1 -19.71	m Offset B SWT 9 dBm 9 dBm	2.38 dB 265 ms	NVNT g 2	412MHz	II)		Sto	-3.24 c 2.4230 ( -42.64 c 4.8211 ( 	iBm GHz iBm GHz iBm GHz
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SGL C		.00/100									
TLK N						M1[	1]			-2.84 dBm	
							-		2.44	411060 GHz	
10 dBm	<u>ا</u>										
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-30 dBr	_	S.	4						N.		
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Spect					NVNT g 24	437MHz A	Read	mission	4		_
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Spect Ref L SGL C: 1Pk M 10 dBm 0 dBm- -10 dBr -20 dBr -30 dBr	n	20.00 dE 30 0/10	dB SWT	2.39 dB 🧉	NVNT g 24	437MHz A z Mode Aut	to Sweep			-3.67 dBm 2.4230 GHz -42.24 dBm	_
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Spect Ref L SGL C2 1Pk M 10 dBm -10 dBm -20 dBr -20 dBr -30 dBr -30 dBr	evel	20.00 dE 30 0/10	3 M44	2.39 dB  265 ms	NVNT g 24	437MHz / 2 Mode Aut 	to Sweep 1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm	-
Spect Ref L Att SGL Cr 10 dBm 10 dBm -10 dBm -20 dBr -30 dBr -40 dBr	evel	20.00 dE 30 0/10	3 M44	2.39 dB  265 ms	NVNT g 24 RBW 100 kH VBW 300 kH	437MHz / 2 Mode Aut 	to Sweep 1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm	_
Spect Ref L SGL C: 10 dBm 0 dBm- 10 dBm -10 dBr -20 dBr -30 dBr -30 dBr -30 dBr -30 dBr	n	20.00 dE 30 0/10	3 M44	2.39 dB  265 ms	NVNT g 24 RBW 100 kH VBW 300 kH	437MHz / 2 Mode Aut 	to Sweep 1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm	
Spect Ref L SGL Cr JIPK M 0 dBm- -10 dBr -20 dBr -30 dBr -40 dBr -50 dBr -50 dBr	evel ount 1 lax M1 n n n n n n n n n n n n n n n n n n	20.00 de 30 0/10	3 M44	2.39 dB  265 ms	NVNT g 2-	437MHz / 2 Mode Aut 	to Sweep 1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm 4.8740 GHz	
Spect Ref L SGL CZ ) IPK M 10 dBm -10 dBm -20 dBr -20 dBr -30 dBr -30 dBr -40 dBr -50 dBr -70 dBr Start 2	evel ount 1 lax M1 n n n n n n n n n n n n n n n n n n	20.00 de 30 0/10	3 M44	2.39 dB  265 ms	NVNT g 24 RBW 100 kH VBW 300 kH	437MHz / 2 Mode Aut 	to Sweep 1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm	-
Spect Ref L SGL C: SGL	evel ount 1 lax 	20.00 dE 30 0/10	Sm Offset : dB SWT 42 dBm 42 dBm 3 42 dBm 44 44 44 44 44 44 44 44 44 4	2.39 dB 265 ms 265 ms 100 ms 10	NVNT g 24	437MHz / 2 Mode Aut M1[ M2[ 1 M2[ 1 1 1 1 1 1 1 1 1 1 1 1 1	1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm 4.8740 GHz	
Spect Ref L SGL Cri JIPK M 10 dBm -10 dBm -20 dBr -30 dBr -30 dBr -30 dBr -30 dBr -40 dBr -50 dBr -50 dBr Start 3 Marker Type M1	evel	20.00 dE 30 0/10 1 -22.84 M IHz IHz	Sim Offset : dB SWT 2 dBm 2	2.39 dB 265 ms 265 ms 26	NVNT g 2- RBW 100 kH VBW 300 kH S S S S S S S S S S S S S	437MHz / 2 2 Mode Aut 1 1 1 1 1 1 1 1 1 1 1 1 1	1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm 4.8740 GHz	
Spect Ref L SGL CT 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70	aunt 1 lax m m m m m m m m m m m m m m m m m m m	20.00 dE 30 0/10	Sm Offset : dB SWT 2 2 X-value 2.4 4.8 4.8	2.39 dB 265 ms 2	NVNT g 2- RBW 100 kH VBW 300 kH 	437MHz / 2 Mode Aut M1[: M2[: 1 M2]: 1 M2[: 1 M2[: 1 M2]: 1 M2[: 1 M	1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm 4.8740 GHz	
Spect Ref L SGL CA J IPK M 0 dBm- -10 dBm -20 dBr -20 dBr -20 dBr -30 dBr -30 dBr -30 dBr -30 dBr -30 dBr -70 dBr Start 3 Marker Type M1 M2	ann n n n n n n n n n n n n n n n n n n	20.00 dE 30 0/10	Sm Offset : dB SWT 2 42 dBm 3 42 dBm 3 42 dBm 44 44 44 4.8 4.8 7.36	2.39 dB 265 ms 2	NVNT g 2- RBW 100 kH VBW 300 kH 	437MHz / 2 Mode Aut M1[: M2[: 1 M2]: 1 M2[: 1 M2[: 1 M2]: 1 M2[: 1 M	1] 1]			-3.67 dBm 2.4230 GHz -42.24 dBm 4.8740 GHz	



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<b>-</b>				1		м	1[1]			-3.35 dBm	
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			Tx. Spi	urious	NVNT g 2		) Rea z Ant1 E	mission		9	
Spect					NVNT g 2	462MHz	) Rea z Ant1 E	mission	4		]
Ref L		)[ 20.00 d	Bm Offset	2.40 dB (	NVNT g 2	462MHz				9	]
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Ref L Att SGL Co	evel	20.00 di 30	Bm Offset	2.40 dB (	NVNT g 2	462MHz				9	] ]
Ref L Att SGL Co	evel	20.00 di 30	Bm Offset	2.40 dB (	NVNT g 2	462MHz <sup>Iz</sup> Mode				2 (₩ ▼ -3.81 dBm	] ] ]
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Ref L Att SGL Co 1Pk M	evel	20.00 di 30	Bm Offset	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweep			2 (₩ ▼ -3.81 dBm	
Ref L SGL Co 1Pk M 10 dBm	evel	20.00 di 30	Bm Offset	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweer			-3.81 dBm 2.4760 GHz -42.41 dBm	
Ref L Att SGL Co 1Pk M	evel	20.00 di 30	Bm Offset	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweer			-3.81 dBm 2.4760 GHz -42.41 dBm	
Ref L SGL Co 1Pk M 10 dBm	evel	20.00 dl 30	Bm Offset dB SWT	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweer			-3.81 dBm 2.4760 GHz -42.41 dBm	
Ref L SGL CC 1Pk M 10 dBm 0 dBm- -10 dBm -20 dBn	evel	20.00 di 30	Bm Offset dB SWT	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweer			-3.81 dBm 2.4760 GHz -42.41 dBm	
Ref L Att SGL Cc 1Pk M 10 dBm 0 dBm- -10 dBm -20 dBm -30 dBm	n	20.00 dl 30 10/10	Bm Offset dB SWT	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweer			-3.81 dBm 2.4760 GHz -42.41 dBm	
Ref L SGL CC 1Pk M 10 dBm 0 dBm- -10 dBm -20 dBn	n	20.00 dl 30 10/10	Bm Offset dB SWT	2.40 dB (	NVNT g 2	462MHz <sup>iz</sup> Mode . Mode .	Auto Sweer			-3.81 dBm 2.4760 GHz -42.41 dBm	
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Ref L SGL Cc 1Pk M 10 dBm- -10 dBm- -20 dBm -30 dBm -40 dBm -50 dBm	n n n n	20.00 di 20.00 di 10/10	AT dBm	2.40 dB (	NVNT g 2	462MHz	Auto Sweep 1[1] 2[1]			-3.81 dBm 2.4760 GHz 42.41 dBm 4.9269 GHz	
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Ref L SGL Cc 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker	evel	20.00 dl 30 10/10	AT dBm	2.40 dB ( 265 ms)	NVNT g 2	462MHz	Auto Sweep 1[1] 2[1]	3	sto	-3.81 dBm 2.4760 GHz 42.41 dBm 4.9269 GHz	
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Ref L SGL Cc P1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker Type M2 M2	evel	20.00 dl 30 10/10	Bm Offset dB SWT 47 dBm 47 dBm 18 47 dBm 47 dBm	2.40 dB 265 ms 265 ms 2	NVNT g 2	462MHz	Auto Sweep 1[1] 2[1]	3	sto	-3.81 dBm 2.4760 GHz 42.41 dBm 4.9269 GHz	
Ref L SGL CC PIPK M 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 3 Marker Type M1 M2 M3	evel	20.00 dl 30 10/10	Bm Offset dB SWT 47 dBm 47 dBm 48 dB SWT	2.40 dB (265 ms)	NVNT g 2 • RBW 100 kF • VBW 300 kF • VBW 300 kF • VBW 300 kF • 100 f • 100 f • 100 f • -42.41 df • -42.41 df	462MHz	Auto Sweep 1[1] 2[1]	3	sto	-3.81 dBm 2.4760 GHz 42.41 dBm 4.9269 GHz	
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Speci	rum				NVNT n2					
-		20.00 dB	m Offset 2	.38 dB 👄	RBW 100 kHz					
Att		30 0	ib <b>SWT</b> 7	'5.9 μs 👄	<b>VBW</b> 300 kHz	Mode Au	uto FFT			
SGL C		100/100								
						M1	[1]			-3.17 dBm
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Ref L SGL C 1Pk M	evel ount 1 lax	20.00 dB 30 d	m Offset 2	.38 dB 😑	RBW 100 kHz	Mode Au	uto Sweep [1]	Emission		-3.14 dBm 2.3970 GHz •42.53 dBm
Ref L Att SGL C	evel ount 1 lax	20.00 dB 30 d	m Offset 2	.38 dB 😑	RBW 100 kHz	Mode Au M1	uto Sweep [1]	Emission		-3.14 dBm 2.3970 GHz
Ref L SGL C 1Pk M	evel	20.00 dB 30 d	m Offset 2	.38 dB 😑	RBW 100 kHz	Mode Au M1	uto Sweep [1]	Emission		-3.14 dBm 2.3970 GHz •42.53 dBm
Ref L Att SGL C 1Pk M 10 dBm 0 dBm-	evel	20.00 dB 30 c	m Offset 2 IB SWT 2	.38 dB 😑	RBW 100 kHz	Mode Au M1	uto Sweep [1]	Emission		-3.14 dBm 2.3970 GHz •42.53 dBm
Ref L Att SGL C 1Pk M 10 dBm 0 dBm-	evel	20.00 dB 30 d	m Offset 2 IB SWT 2	.38 dB 😑	RBW 100 kHz	Mode Au M1	uto Sweep [1]	Emission		-3.14 dBm 2.3970 GHz •42.53 dBm
Ref L SGL C 1Pk M 10 dBm -10 dBm -20 dBr -30 dBr	evel	20.00 dB 30 c	m Offset 2 BB SWT 2	.38 dB 😑	RBW 100 kHz	Mode Au M1	uto Sweep [1]	Emission		-3.14 dBm 2.3970 GHz •42.53 dBm
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Ref L Att SGL C 1Pk M 10 dBm 0 dBm- -10 dBr -20 dBr -30 dBr -40 dBr	evel	20.00 dB 30 d 10/10	m Offset 2 lB SWT 2	38 dB	RBW 100 kHz VBW 300 kHz	Mode Au M1	11 [1]			-3.14 dBm 2.3970 GHz •42.53 dBm
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Ref L           Att           SGL C           1Pk M           10 dBm           0 dBm-           -10 dBr           -20 dBr           -30 dBr           -40 dBr           -50 dBr           -70 dBr           -70 dBr           Marker           Type           M1           M2	evel ount 1 lax M1 n n n n 0 0 0 0 0	20.00 dB 30 d 10/10 01 -23.16 M2 HHz HHz I Trc 1 1 1 1	m Offset 2 B SWT 2 7 dBm 7 dBm 7 dBm 7 dBm 7 dBm 8 8 8 8 8 8 8 8 8 8 8 8 8	38 dB	RBW         100 kHz           VBW         300 kHz           VBW         300 kHz           U         1001           Y-value	Mode Au M1  M2  M2  pts Function	uto Sweep [1] [1] אוליאעקלעאק		Just Market Art	-3.14 dBm 2.3970 GHz 42.53 dBm 4.8211 GHz
Ref L Att SGL C 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm Start 3 Marker Type M1 M2	evel ount 1 lax M1 n n n n 0 0 0 0 0	20.00 dB 30 c 10/10 01 -23.16 M2 IHz IHz IHz	m Offset 2 B SWT 2 7 dBm 7 dBm 7 dBm 8 8 8 8 8 8 8 8 8 8 8 8 8	1.38 dB  265 ms  265 ms	RBW 100 kHz VBW 300 kHz	Mode Au M1] M2] M2] m2 m2 m2 m2 m2 m2 m2 m2 m2 m2	uto Sweep [1] [1] אוליאעקלעאק		Just Market Art	-3.14 dBm 2.3970 GHz 42.53 dBm 4.8211 GHz



Spect	- PH 1 - PM-				NVNT n2					
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CF 2.4		][]	Tx. Spur	ious N'			z Ant1 I	<b>E</b> missior	<b></b>	
Spect	rum	][]	•			2437MH2	Read z Ant1 I	Emissior	<b></b>	30.0 MH2
Spect Ref L Att	rum evel	20.00 dB 30 c	m Offset 2	2.39 dB 👄	VNT n20 2	2437MH2		Emissior	<b></b>	
Spect Ref L Att SGL Co	rum evel	20.00 dB 30 c	m Offset 2	2.39 dB 👄	VNT n20 2 RBW 100 kH:	2437MH2		Emissior	<b></b>	
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Spect Ref L Att SGL Co	evel	20.00 dB 30 c	m Offset 2	2.39 dB 👄	VNT n20 2 RBW 100 kH:	2437MH2 2 Mode At M1	uto Sweep [1]	Emission	n	-3.42 dBm 2.4230 GHz
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Spect Ref L Att SGL Co 1Pk M 10 dBm 0 dBm-	evel	20.00 dB	m Offset 2 B SWT	2.39 dB 👄	VNT n20 2	2437MH2 2 Mode At M1	uto Sweep [1]	Emission	ייייייייייייייייייייייייייייייייייייי	-3.42 dBm 2.4230 GHz 42.38 dBm
Spect Ref L Att SGL Co 1Pk M 10 dBm 0 dBm- -10 dBr	evel	20.00 dB 30 c 0/10	m Offset 2 B SWT	2.39 dB 👄	VNT n20 2	2437MH2 2 Mode At M1	uto Sweep [1]	Emission	ייייייייייייייייייייייייייייייייייייי	-3.42 dBm 2.4230 GHz 42.38 dBm
Spect Ref L Att SGL Cr 10 dBm 0 dBm- -10 dBm -20 dBr -30 dBr	m	20.00 dB 30 c 0/10	m Offset 2 B SWT :	2.39 dB 👄	VNT n20 2	2437MH2 2 Mode At M1	uto Sweep [1]	Emission	ייייייייייייייייייייייייייייייייייייי	-3.42 dBm 2.4230 GHz 42.38 dBm
Spect Ref L Att SGL Co 1Pk M 10 dBm 0 dBm- -10 dBr	m	20.00 dB 30 c 0/10	m Offset 2 B SWT :	2.39 dB 👄	VNT n20 2	2437MH2 2 Mode At M1	uto Sweep [1]	Emission	ייייייייייייייייייייייייייייייייייייי	-3.42 dBm 2.4230 GHz 42.38 dBm
Spect Ref L Att SGL CC 1Pk M 10 dBm 0 dBm- -10 dBm -20 dBm -30 dBr	m m m m m	20.00 dB 30 c 0/10	m Offset 2 B SWT :	2.39 dB • 265 ms •	VNT n20 2	2437MH2 2 Mode At M1	uto Sweep			-3.42 dBm 2.4230 GHz 42.38 dBm
Spect Ref L Att SGL Co 1Pk M 10 dBm -10 dBm -20 dBm -20 dBr -30 dBr -40 dBr	m	20.00 dB 30 c 0/10	m Offset 2 B SWT :	2.39 dB 👄	VNT n20 2	2437MH2 2 Mode At M1	uto Sweep		ייייייייייייייייייייייייייייייייייייי	-3.42 dBm 2.4230 GHz 42.38 dBm
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Spect Ref L SGL CC 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm Start 3 Marker Type	rum evel bunt 1 n n n n n n n n n n n n n n n n n n n	) 20.00 dB 30 c 0/10 11 -20.88 Mi 11 -20.88 Mi 11 -20.88 Mi 11 -20.88 Mi 11 -20.88 Mi 11 -20.88 Mi 11 -20.88 Mi 11 -20.88 Mi 12 -20.88 Mi 13 -20.88 Mi 13 -20.88 Mi 14 -20.88 Mi 15 -20.85 Mi 15 -20.88 Mi 15 -20.88	m Offset 2 B SWT	2.39 dB  265 ms	VNT n20 2	2437MH2 2 Mode Au M1 M2 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1]	Mal marine		-3.42 dBm 2.4230 GHz 42.38 dBm 4.8740 GHz
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Spect Ref L SGL CO PIPK M 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker Type M1 M2 M3	rum evel bunt 1 n n n n n n n n n n n n n n n n n n n	20.00 dB 30 c 0/10 1 -20.88 M: 	m Offset 2 B SWT :: 6 dBm 6 dBm 7 44 8 44 8 4.8 7 4.8 7 4.8	2.39 dB 265 ms 265 ms 26	VNT n20 2 RBW 100 kH; vBW 300	2437MH2 2 Mode Au M1 M2 pts Functi m m m	1]	Mal marine	n 	-3.42 dBm 2.4230 GHz 42.38 dBm 4.8740 GHz
Spect Ref L SGL CC 1Pk M 10 dBm -10 dBm -20 dBr -20 dBr -30 dBr -30 dBr -30 dBr -50 dBr -50 dBr -50 dBr -50 dBr -70 dBr Start 3 Marker Type M1 M2	rum evel bunt 1 n n n n n n n n n n n n n n n n n n n	20.00 dB 30 c 0/10 1 -20.88 M: m./low IHz IHz	m Offset 2 B SWT :: 5 dBm 5 dBm 3 3 3 4 4 5 dBm 5 5 dBm 5 5 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.39 dB 265 ms	VNT n20 2 RBW 100 kH VBW 300 kH 0 0 0 0 0 0 0 0 0 0 0 0 0	2437MH2 2 Mode Au M11 M2 M2 pts Functi m m m m	1]	Mal marine	n 	-3.42 dBm 2.4230 GHz 42.38 dBm 4.8740 GHz



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RefLevel 20.0	00 dBm Offset 30 dB SWT	2.40 dB 👄	RBW 100 kHz				-3.95 dBm
Ref Level 20.0 Att SGL Count 10/10	00 dBm Offset 30 dB SWT	2.40 dB 👄	RBW 100 kHz	Mode Auto S			
Ref Level 20.0 Att SGL Count 10/10 1Pk Max	00 dBm Offset 30 dB SWT	2.40 dB 👄	RBW 100 kHz	Mode Auto S M1[1]			-3.95 dBm 2.4500 GHz
Ref Level 20.0 Att SGL Count 10/10 1Pk Max	00 dBm Offset 30 dB SWT	2.40 dB 👄	RBW 100 kHz	Mode Auto S M1[1]			-3.95 dBm 2.4500 GHz ·42.00 dBm
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           0 dBm           -10 dBm           -20 dBm	00 dBm Offset 30 dB SWT	2.40 dB 👄	RBW 100 kHz	Mode Auto S M1[1]			-3.95 dBm 2.4500 GHz ·42.00 dBm
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm	00 dBm Offset 30 dB SWT	2.40 dB 👄	RBW 100 kHz	Mode Auto S M1[1]			-3.95 dBm 2.4500 GHz ·42.00 dBm
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	00 dBm Offset 30 dB SWT	2.40 dB  265 ms	RBW         100         kHz           VBW         300         kHz           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I           I         I         I	Mode Auto S M1[1]			-3.95 dBm 2.4500 GHz ·42.00 dBm
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	23.477 dBm	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S M1[1] M2[1]			-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	00 dBm Offset 30 dB SWT 23.477 dBm MB	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S	weep		-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	23.477 dBm	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S	weep		-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 30.0 MHz	23.477 dBm	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S M1[1] M2[1] 	weep		-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 30.0 MHz           Marker           Type         Ref	23.477 dBm	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S M1[1] M2[1] 			-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level 20.0           Att           SGL Count 10/10           1Pk Max           10 dBm           10 dBm           -10 dBm           -20 dBm           -20 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           -50 dBm           -70 dBm	D0 dBm         Offset           30 dB         SWT           30 dB         SWT           23.477 dBm         23.477 dBm           M2	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S			-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level         20.0           Att         SGL Count         10/10           9 IPk Max         10         40 Max           10 dBm         -         -           0 dBm         -         -           -10 dBm         -         -           -20 dBm         -         -           -30 dBm         -         -           -40 dBm         -         -           -50 dBm         -         -           -70 dBm         -         -     <	C X-valu 1 4.9	2.40 dB  265 ms	RBW         100         KHz           VBW         300         KHz           Image: state stat	Mode Auto S			-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz
Ref Level         20.0           Att         SGL Count         10/10           1Pk Max	C X-valu 1 4.9 1 7.2	2.40 dB  265 ms	RBW         100 kHz           VBW         300 kHz	Mode Auto S			-3.95 dBm 2.4500 GHz 42.00 dBm 4.9269 GHz