# **Radio Test Report**

Report No.: STS2408164W06

Issued for

X-Sense Innovations Co., Ltd.

# Room 1703, Building 7A, International Innovation Valley, Dashi 1st Road, Shenzhen, 518055, CHINA

Product Name:	Wi-Fi Combination Smoke and Carbon Monoxide Alarm
Brand Name:	X-SENSE
Model Name:	SC06-WX
Series Model(s):	N/A
FCC ID:	2AU4DDCR
Test Standards:	FCC Part15.247

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.



#### **TEST REPORT**

Applicant's Name	X-Sense Innovations Co., Ltd.
Address	Room 1703, Building 7A, International Innovation Valley, Dashi 1st Road, Shenzhen, 518055, CHINA
Manufacturer's Name:	X-Sense Electronics Co., Ltd.
Address	Room 402, Building 4, No. 9, Jinshagang 1st Road, Shixia Village, Dalang Town, Dongguan City, 523750 Guangdong, P.R. CHINA

#### **Product Description**

Product Name:	Wi-Fi Combination Smoke and Carbon Monoxide Alarm	
Brand Name:	X-SENSE	
Model Name	. SC06-WX	
Series Model(s):	N/A	
Test Standards	FCC Part 15.247	
Test Procedure	ANSI C63.10-2020	

This device described above has been tested by STS, 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.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd. Data of Tost

Date of Test	
Date of receipt of test item:	30 Aug. 2024
Date (s) of performance of tests:	30 Aug. 2024 ~ 12 Sept. 2024
Date of Issue	12 Sept. 2024
Test Result	Pass

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Technical Manager :	(Aaron Bu)	Contraction of the second seco
		.2
Authorized Signatory :	(Tony Liu)	
	(Bovey Yang)	





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# **Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	12 Sept. 2024	STS2408164W06	ALL	Initial Issue
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			9	9





#### **1. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards: KDB 558074 D01 15.247 Meas Guidance v05r02.

FCC Part 15.247,Subpart C			
Standard Section	Judgment	Remark	
15.207	Conducted Emission	N/A	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)(3)	Output Power	PASS	
15.209	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS	-
15.247 (e)	Power Spectral Density	PASS	
15.205	Restricted Band Edge Emission	PASS	
Part 15.247(d)/ part 15.209(a)	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



#### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

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FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

## **1.2 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	RF output power, conducted	±0.755dB
2	Unwanted Emissions, conducted	±2.874dB
3	All emissions, radiated 9K-30MHz	±3.80dB
4	All emissions, radiated 30M-1GHz	±4.18dB
5	All emissions, radiated 1G-6GHz	±4.90dB
6	All emissions, radiated>6G	±5.24dB
7	Conducted Emission (9KHz-150KHz)	±2.19dB
8	Conducted Emission (150KHz-30MHz)	±2.53dB
9	Occupied Channel Bandwidth	±3.5%
10	Power Spectral Density, conducted	±1.245dB
11	Duty Cycle	±3.2%



## 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wi-Fi Combination	Smoke and Carbon Monoxide Alarm	
Brand Name	X-SENSE	1 1	
Model Name	SC06-WX		
Series Model(s)	N/A		
Model Difference	N/A		
Product Description	The EUT is a Wi-Fi Operation Frequency: Modulation Type: Bit Rate of Transmitter: Number of Channel: Antenna Type: Antenna Gain (dBi	Combination Smoke and Carbon Monoxide Alarm           802.11b/g/n 20: 2412~2462 MHz           802.11n(40MHz):2422~2452MHz           802.11b(DSSS):CCK,DQPSK,DBPSK           802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM           802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM           802.11b:11/5.5/2/1 Mbps           802.11g:54/48/36/24/18/12/9/6Mbps           802.11n(20MHz):           65/58.5/52/39/26/19.5/13/6.5Mbps           802.11n(40MHz):           135/121.5/108/81/54/40.5/37/13.5Mbps           802.11b/g/n20: 11CH           802.11n 40: 7CH           PCB antenna           ): 3.42 dBi	
Channel List	Please refer to the	Please refer to the Note 3.	
Rating	Input: DC 3V Powe	red by Battery	
Hardware version number	SC07-WX_V1.2         V1.0.0         Please refer to the Note 1.		
Software version number			
Connecting I/O Port(s)			

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- 2. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



3.

Operation Frequency of channel			
802.1	802.11b/g/n(20MHz)		st for 802.11n(40MHz)
Channel	Frequency	Channel	Frequency
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447		
09	2452		
10	2457		
11	2462		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, themiddle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below: Carrier Frequency Channel

#### 2.4GHz Test Frequency:

For 802.11b/g/n (HT20)		For 802.11n (HT40)	
Channel	Freq.(MHz)	Channel	Freq.(MHz)
01	2412	03	2422
06	2437	06	2437
11	2462	09	2452



#### 2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) We have be tested for all avaiable U.S. voltage and frequencies (DC 3V) for which the device is capable of operation, and the worst case of DC 3V is shown in the report.
- (3) The battery is new during the radiated and RF conducted test.

#### 2.3 TEST SOFTWARE AND POWER LEVEL

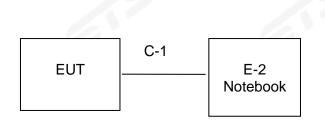
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

-	RF Function	Туре	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
	19		802.11b		25	6 19
		2.4G	802.11g	3.42	30	For DETectTool, v2.9, Manual
1	WIFI(2.4G)	WIFI	802.11n(HT20)	3.42	30	EspRFTestTool_v2.8_Manual
			802.11n(HT40)		30	



#### 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





# 2.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary	accessories	

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A
			P		

#### Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
E-2	Notebook	LENOVO	Think Pad E470	N/A	N/A
C-1	USB Cable	HUA WEI	N/A	100cm	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in <sup>C</sup>Length<sub>2</sub> column.
- (2) "YES" is means "with core"; "NO" is means "without core".



# 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

RF Radiation Test Equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2024.02.23	2025.02.22
Pre-Amplifier(1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2023.09.26	2024.09.25
Pre-Amplifier(18G-40GHz)	SKET	LNPA_1840-50	SK2018101801	2024.02.23	2025.02.22
Active loop Antenna	ZHINAN	ZN30900C	16035	2023.02.28	2025.02.27
Bilog Antenna	TESEQ	CBL6111D	34678	2022.09.30	2024.09.29
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2023.09.24	2025.09.23
Horn Antenna	A-INFOMW	LB-180400-KF	J211020657	2023.10.10	2025.10.09
Positioning Controller	MF	MF-7802	MF-780208587	N/A	N/A
Signal Analyzer	R&S	FSV 40-N	101823	2023.09.26	2024.09.25
Switch Control Box	N/A	N/A	N/A	N/A	N/A
Filter Box	BALUN Technology	SU319E	BL-SZ1530051	N/A	N/A
Antenna Mast	MF	MFA-440H	N/A	N/A	N/A
Turn Table	MF	SC100_1	60531	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N/A	N/A
DC power supply	HONGSHENGFENG	DPS-305AF	17064939	2023.09.26	2024.09.25
Test SW	EZ-EMC		Ver.STSLAB-03	A1 RE	
	RF	Connected Test			
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Signal Analyzer	Agilent	N9020A	MY51510623	2024.02.23	2025.02.22
Power detector group	Keysight	NW2021031	N/A	2023.09.26	2024.09.25
Switch control box	MW	MW100-RFCB	N/A	N/A	N/A
Temperature & Humidity	SW-108	SuWei	N/A	2024.03.15	2025.03.14
Test SW					



#### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

	Conducted Emissionlimit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### The following table is the setting of the receiver

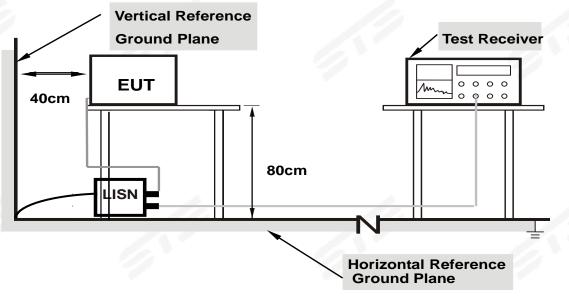
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

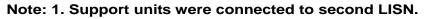
#### 3.1.2 TEST PROCEDURE

- a. The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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 40 cm long.
- c. 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.
- d. LISN is at least 80 cm from the nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.



#### 3.1.3 TEST SETUP





# 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes support units.

#### 3.1.4EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 3.1.5 TEST RESULT

Temperature:	°C	Relative Humidity:	%RH
Test Voltage:	N/A	Phase:	L/N
Test Mode:	N/A		1

Note: product is battery operated and conducted emission test is not applicable.



#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2020 below has to be followed.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

	(dBuV/m) (at 3M)	
FREQUENCY (MHz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RESTRICTED FREQUENCY BANDS

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)	
0.090-0.110	.090-0.110 16.42-16.423		4.5-5.15	
0.495-0.505	0.495-0.505 16.69475-16.69525		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	108-121.94	1718.8-1722.2	13.25-13.4	
6.31175-6.31225	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	Above 38.6	
13.36-13.41				



For Radiated Emission

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak/QP/AV		
Start Frequency	9 KHz/150KHz(Peak/QP/AV)		
Stop Frequency	150KHz/30MHz(Peak/QP/AV)		
	200Hz (From 9kHz to 0.15MHz)/		
RB / VB (emission in restricted	9KHz (From 0.15MHz to 30MHz);		
band)	200Hz (From 9kHz to 0.15MHz)/		
	9KHz (From 0.15MHz to 30MHz)		

	1
Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/QP
Start Frequency	30 MHz(Peak/QP)
Stop Frequency	1000 MHz (Peak/QP)
RB / VB (emission in restricted	
band)	120 KHz / 300 KHz

	Spectrum Parameter	Setting
	Attenuation	Auto
	Detector	Peak/AV
	Start Frequency	1000 MHz(Peak/AV)
Stop Frequency		10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted		1 MHz / 3 MHz(Peak)
	band)	1 MHz/1/T MHz(AVG)
Fo	r Restricted band	

Spectrum Parameter	Setting
 Detector	Peak/AV
Stort/Stop Fraguenay	Lower Band Edge: 2310 to 2430 MHz
Start/Stop Frequency	Upper Band Edge: 2445 to 2500 MHz
	1 MHz / 3 MHz(Peak)
RB / VB	1 MHz/1/T MHz(AVG)



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 3.2.2 TEST PROCEDURE

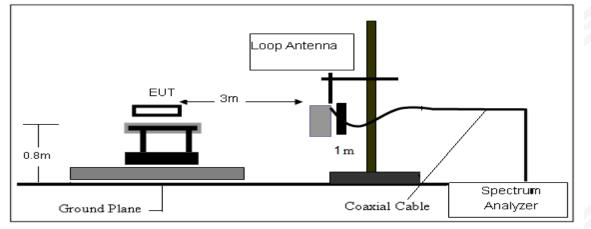
- a. The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- d. 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 QuasiPeak detector mode will be re-measured.
- e. If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- f. 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.

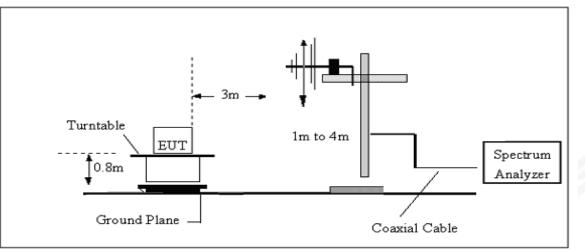


# 3.2.3 TEST SETUP

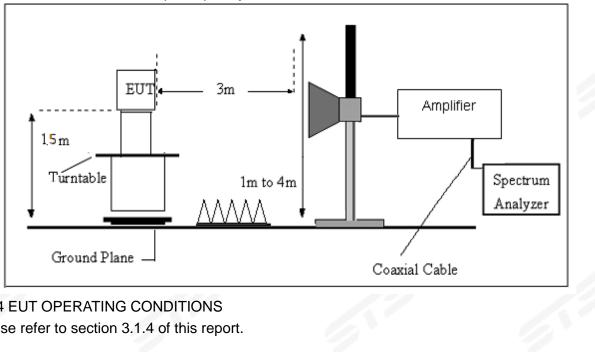
(A) Radiated Emission Test-Up Frequency Below 30MHz

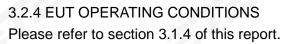


#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz







#### 3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AGWhere FS = Field Strength CL = Cable Attenuation Factor (Cable Loss) RA = Reading Amplitude AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG

#### 3.2.6 TEST RESULT

#### 9KHz-30MHz

Temperature:	<b>23.4</b> ℃	Relative Humidtity:	60%RH
Test Voltage:	DC 3V form battery	Polarization:	
Test Mode:	TX Mode	65	1

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result
					PASS
					PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.



(30MHz - 1000MHz)

Temperature:	<b>23.4℃</b>	Relative Humidtity:	60%RH		
Test Voltage:	DC 3V form battery	Phase:	Horizontal		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 7 worst mode)				

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	59.1000	54.61	-25.73	28.88	40.00	-11.12	peak
2	83.3500	55.18	-22.52	32.66	40.00	-7.34	peak
3	95.9600	57.70	-20.67	37.03	43.50	-6.47	peak
4	357.8600	46.74	-12.91	33.83	46.00	-12.17	peak
5	500.4500	41.88	-8.01	33.87	46.00	-12.13	peak
6	800.1800	36.87	-2.05	34.82	46.00	-11.18	peak

#### Remark:

- 1. Margin = Result (Result = Reading + Factor )-Limit
- 2. Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

3. All modes have been tested, only show the worst case.  $BU = \frac{1}{2} \frac{1}{2$ 





Report No.: STS2408164W06

Temperature:	<b>23.4</b> °C	Relative Humidtity:	60%RH		
Test Voltage:	DC 3V form battery	Phase:	Vertical		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 7 worst mode)				

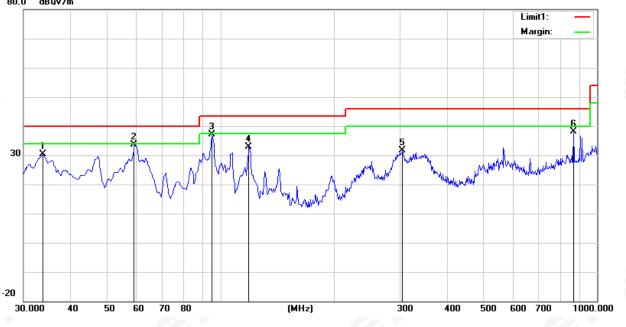
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/ m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	45.16	-14.80	30.36	40.00	-9.64	peak
2	59.1000	59.28	-25.73	33.55	40.00	-6.45	peak
3	94.9900	57.88	-20.78	37.10	43.50	-6.40	peak
4	119.2400	51.31	-18.38	32.93	43.50	-10.57	peak
5	305.4800	46.15	-14.62	31.53	46.00	-14.47	peak
6	869.0500	38.57	-0.52	38.05	46.00	-7.95	peak

Remark:.

Margin = Result (Result = Reading + Factor )–Limit
 Factor= Antenna factor+Cable attenuation factor(cable loss)-Amplifier gain

3. All modes have been tested, only show the worst case.

80.0 dBuV/m





# (1000MHz-25GHz) Spurious emission Requirements

# 802.11g

Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
19 C			11 C	Low Ch	annel (802.1g/	2412 MHz)				
3264.82	62.11	44.70	6.70	28.20	-9.80	52.31	74.00	-21.69	PK	Vertical
3264.82	50.88	44.70	6.70	28.20	-9.80	41.08	54.00	-12.92	AV	Vertical
3264.66	61.08	44.70	6.70	28.20	-9.80	51.28	74.00	-22.72	PK	Horizontal
3264.66	50.31	44.70	6.70	28.20	-9.80	40.51	54.00	-13.49	AV	Horizontal
4824.31	58.91	44.20	9.04	31.60	-3.56	55.35	74.00	-18.65	PK	Vertical
4824.31	49.22	44.20	9.04	31.60	-3.56	45.66	54.00	-8.34	AV	Vertical
4824.55	59.43	44.20	9.04	31.60	-3.56	55.87	74.00	-18.13	PK	Horizontal
4824.55	50.05	44.20	9.04	31.60	-3.56	46.49	54.00	-7.51	AV	Horizontal
5359.80	49.19	44.20	9.86	32.00	-2.34	46.85	74.00	-27.15	PK	Vertical
5359.80	39.22	44.20	9.86	32.00	-2.34	36.88	54.00	-17.12	AV	Vertical
5359.71	47.29	44.20	9.86	32.00	-2.34	44.94	74.00	-29.06	PK	Horizontal
5359.71	39.50	44.20	9.86	32.00	-2.34	37.15	54.00	-16.85	AV	Horizontal
7235.71	54.07	43.50	11.40	35.50	3.40	57.47	74.00	-16.53	PK	Vertical
7235.71	43.80	43.50	11.40	35.50	3.40	47.20	54.00	-6.80	AV	Vertical
7235.69	53.75	43.50	11.40	35.50	3.40	57.15	74.00	-16.85	PK	Horizontal
7235.69	44.10	43.50	11.40	35.50	3.40	47.50	54.00	-6.50	AV	Horizontal
		•	•	Middle C	hannel (802.11	g/2437 MHz)	•	•	•	•
3264.90	62.01	44.70	6.70	28.20	-9.80	52.21	74.00	-21.79	PK	Vertical
3264.90	51.34	44.70	6.70	28.20	-9.80	41.54	54.00	-12.46	AV	Vertical
3264.86	60.88	44.70	6.70	28.20	-9.80	51.08	74.00	-22.92	PK	Horizontal
3264.86	50.10	44.70	6.70	28.20	-9.80	40.30	54.00	-13.70	AV	Horizontal
4874.56	58.46	44.20	9.04	31.60	-3.56	54.90	74.00	-19.10	PK	Vertical
4874.56	49.67	44.20	9.04	31.60	-3.56	46.11	54.00	-7.89	AV	Vertical
4874.42	59.34	44.20	9.04	31.60	-3.56	55.78	74.00	-18.22	PK	Horizontal
4874.42	50.07	44.20	9.04	31.60	-3.56	46.51	54.00	-7.49	AV	Horizontal
5359.80	48.81	44.20	9.86	32.00	-2.34	46.46	74.00	-27.54	PK	Vertical
5359.80	40.34	44.20	9.86	32.00	-2.34	38.00	54.00	-16.00	AV	Vertical
5359.86	48.45	44.20	9.86	32.00	-2.34	46.11	74.00	-27.89	PK	Horizontal
5359.86	39.31	44.20	9.86	32.00	-2.34	36.97	54.00	-17.03	AV	Horizontal
7310.90	54.09	43.50	11.40	35.50	3.40	57.49	74.00	-16.51	PK	Vertical
7310.90	44.11	43.50	11.40	35.50	3.40	47.51	54.00	-6.49	AV	Vertical
7310.89	53.72	43.50	11.40	35.50	3.40	57.12	74.00	-16.88	PK	Horizontal
7310.89	44.92	43.50	11.40	35.50	3.40	48.32	54.00	-5.68	AV	Horizontal



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				High Chan	nel (802.11g	/2462 MHz)				
3264.62	61.06	44.70	6.70	28.20	-9.80	51.26	74.00	-22.74	PK	Vertical
3264.62	50.14	44.70	6.70	28.20	-9.80	40.34	54.00	-13.66	AV	Vertical
3264.59	62.21	44.70	6.70	28.20	-9.80	52.41	74.00	-21.59	PK	Horizontal
3264.59	50.17	44.70	6.70	28.20	-9.80	40.37	54.00	-13.63	AV	Horizontal
4924.28	59.28	44.20	9.04	31.60	-3.56	55.72	74.00	-18.28	PK	Vertical
4924.28	50.26	44.20	9.04	31.60	-3.56	46.70	54.00	-7.30	AV	Vertical
4924.31	59.05	44.20	9.04	31.60	-3.56	55.49	74.00	-18.51	PK	Horizontal
4924.31	50.48	44.20	9.04	31.60	-3.56	46.92	54.00	-7.08	AV	Horizontal
5359.66	48.21	44.20	9.86	32.00	-2.34	45.87	74.00	-28.13	PK	Vertical
5359.66	40.14	44.20	9.86	32.00	-2.34	37.79	54.00	-16.21	AV	Vertical
5359.70	48.15	44.20	9.86	32.00	-2.34	45.81	74.00	-28.19	PK	Horizontal
5359.70	38.70	44.20	9.86	32.00	-2.34	36.35	54.00	-17.65	AV	Horizontal
7385.84	54.37	43.50	11.40	35.50	3.40	57.77	74.00	-16.23	PK	Vertical
7385.84	44.25	43.50	11.40	35.50	3.40	47.65	54.00	-6.35	AV	Vertical
7385.74	54.31	43.50	11.40	35.50	3.40	57.71	74.00	-16.29	PK	Horizontal
7385.74	44.90	43.50	11.40	35.50	3.40	48.30	54.00	-5.70	AV	Horizontal

#### Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. All modes have been measurement, only worst mode was reported.

Emission Level = Reading + Factor

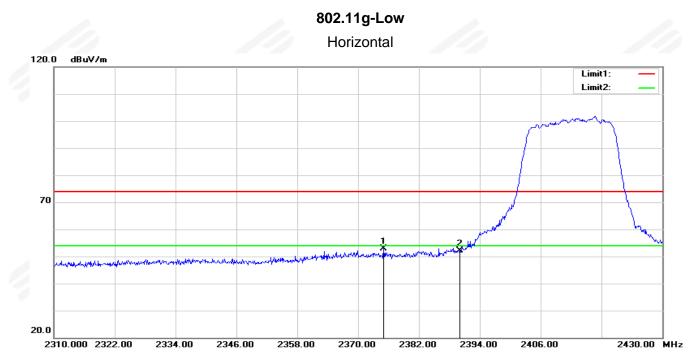
Margin = Emission Level-Limit

3. The frequency emission of peak points that did not show above the forms are at least 20dB below

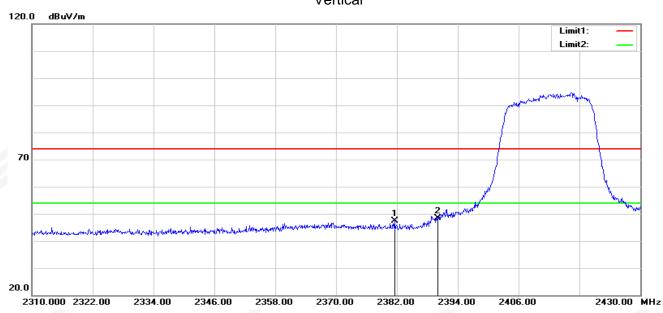
the limit, the frequency emission is mainly from the environment noise.



# 3.2.6 TEST RESULTS(Band edge Requirements)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.040	48.81	4.12	52.93	74.00	-21.07	peak
2	2390.000	47.80	4.34	52.14	74.00	-21.86	peak



No.	Frequency Reading		Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2381.520	43.20	4.22	47.42	74.00	-26.58	peak
2	2390.000	44.14	4.34	48.48	74.00	-25.52	peak

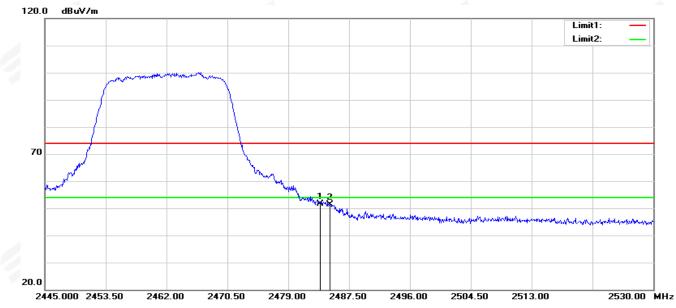
Vertical



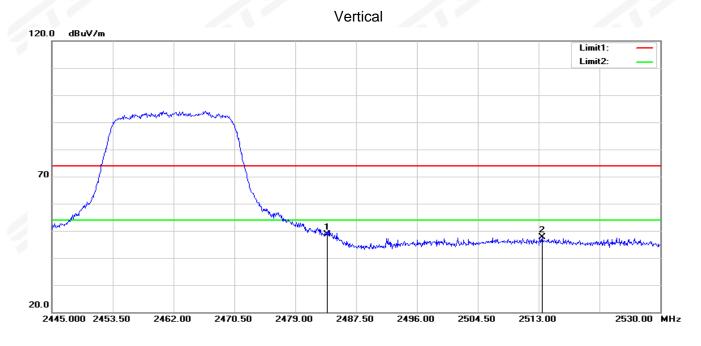


# 802.11g-High

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	47.12	4.60	51.72	74.00	-22.28	peak
2	2484.865	46.71	4.61	51.32	74.00	-22.68	peak



1	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1	2483.500	44.07	4.60	48.67	74.00	-25.33	peak
	2	2513.510	42.88	4.74	47.62	74.00	-26.38	peak

Note: All modes have been measurement, only worst mode was reported.

Max hold

# 4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 4.1 LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### 4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold
For Band edge	7 7
Spectrum Parameter	Setting
Detector	Peak
	Lower Band Edge: 2300 to 2432 MHz
Start/Stop Frequency	Upper Band Edge: 2442 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz

# 4.3 DEVIATION FROM STANDARD No deviation.

Trace-Mode:

#### 4.4 TEST SETUP



The EUT is connected to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONSPlease refer to section 3.1.4 of this report.4.6 TEST RESULTS



## 5. POWER SPECTRAL DENSITY TEST

#### 5.1 LIMIT

FCC Part15.247, Subpart C									
Section	Test Item	Limit	Frequency Range (MHz)	Result					
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥3KHz)	2400-2483.5	PASS					

#### 5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the 100 kHz  $\geq$  RBW  $\geq$ 3 kHz.
- 4. Set the VBW  $\ge$  3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

#### 5.6 TEST RESULTS



## 6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15.247,Subpart C								
Section	Test Item	Limit	Frequency Range (MHz)	Result				
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS				

#### 6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW $\geq$ 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

#### 6.6 TEST RESULTS



# 7. PEAK OUTPUT POWER TEST

#### 7.1 LIMIT

FCC Part15.247,Subpart C									
Section	Test Item	Limit	Frequency Range (MHz)	Result					
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS					

#### 7.2 TEST PROCEDURE

One of the following procedures may be used to determine the averaging conducted output powe r of a DTS EUT.

Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, foll owed by duty cycle correction. The procedure for this method is as follows:

a) Measure the duty cycle D of the transmitter output signal as described in 11.6.

b) Set span to at least 1.5 times the OBW.

c) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.

d) Set VBW  $\geq$  [3 × RBW].

e) Number of points in sweep  $\geq$  [2 × span / RBW]. (This gives bin-to-bin spacing  $\leq$  RBW / 2, so th at narrowband signals are not lost between frequency bins.)

#### f) Sweep time = auto.

g) Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode
 h) Do not use sweep triggering. Allow the sweep to "free run."

i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of trac es to be averaged shall be increased above 100 as needed such that the average accurately re presents the true average over the ON and OFF periods of the transmitter.

j) Compute power by integrating the spectrum across the OBW of the signal using the instrument 's band power measurement function with band limits set equal to the OBW band edges. If the in strument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average o ver both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.

Integrated band power method:

The following procedure can be used when the maximum available RBW of the instrument is less than the

DTS bandwidth:

a) Set the RBW = 1 MHz.

b) Set the VBW  $\geq$  [3  $\times$  RBW].

c) Set the span  $\geq$  [1.5 × DTS bandwidth].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

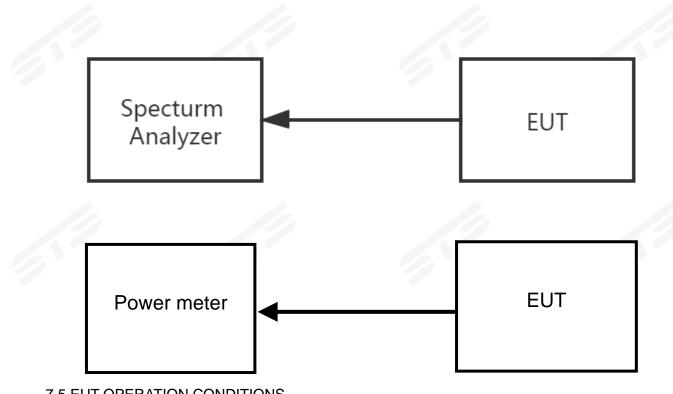
h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

PKPM1 Peak power meter method:

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

7.3 DEVIATION FROM STANDARD No deviation.





7.5 EUT OPERATION CONDITIONS Please refer to section 3.1.4 of this report.

# 7.6 TEST RESULTS



#### 8. ANTENNA REQUIREMENT

#### 8.1 STANDARD 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 partyshall be used with the device.

#### 8.2 EUT ANTENNA

The EUT antenna is PCB Antenna. It comply with the standard requirement.



# 1. Duty Cycle

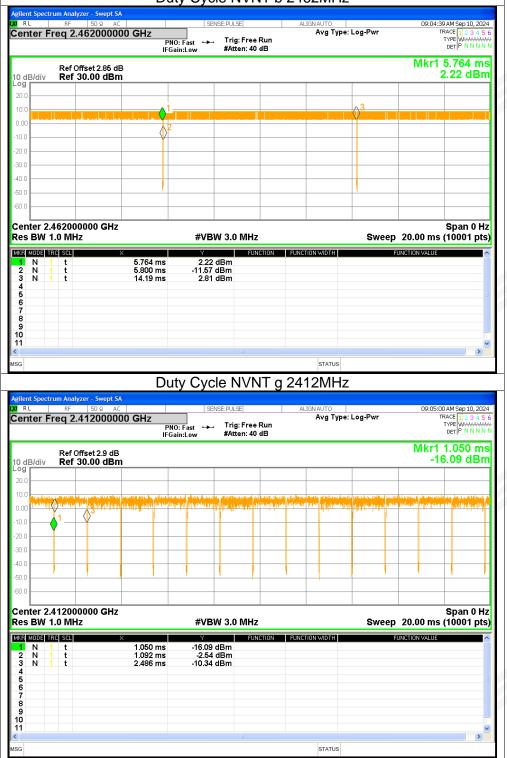
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)		
b	2412	99.57	0.02	0.12		
b	2437	99.55	0.02	0.12		
b	2462	99.57	0.02	0.12		
g	2412	97.08	0.13	0.72		
g	2437	97.08	0.13	0.72		
g	2462	97.08	0.13	0.72		
n20	2412	96.88	0.14	0.77		
n20	2437	96.84	0.14	0.77		
n20	2462	96.88	0.14	0.77		
n40	2422	94.08	0.27	1.54		
n40	2437	94.08	0.27	1.54		
n40	2452	94.08	0.27	1.54		
	b b g g n20 n20 n20 n20 n40 n40	b         2412           b         2437           b         2462           g         2412           g         2437           g         2462           n20         2412           n20         2437           n20         2437           n20         2462           n40         2422           n40         2437	b         2412         99.57           b         2437         99.55           b         2462         99.57           g         2412         97.08           g         2437         97.08           g         2462         97.08           n20         2412         96.88           n20         2437         96.84           n20         2462         96.88           n40         2422         94.08	b       2412       99.57       0.02         b       2437       99.55       0.02         b       2462       99.57       0.02         g       2412       97.08       0.13         g       2437       97.08       0.13         g       2462       96.88       0.14         n20       2437       96.84       0.14         n20       2462       96.88       0.14         n40       2422       94.08       0.27         n40       2437       94.08       0.27		



			D	uty Cycl	īest G e NV№	VT b 24	12MHz	Z		
ent Spect R L	t <b>rum A</b> r Ri	a <mark>lyzer - Swept SA</mark> 50 Ω AC	l		5E:PULSE		LIGNAUTO		00:02:1	.8 AM Sep 10, 2024
		2.41200000	0 GHz	PNO: Fast +++ Gain:Low	Trig: Free #Atten: 40	Run		:: Log-Pwr		IRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N
dB/div		f Offset 2.9 dB f 30.00 dBm	1							1.470 ms 0.93 dBm
						A.s	l a llacar ficer en	ingu an internet at	m	
						V				
o										
0	-									
s BW		100000 GHz IHz		#VBV	V 3.0 MHz	z		Swee	o 20.00 ms	Span 0 Hz (10001 pts)
R MODE 1	1 t		× 1.470 ms	Y 0.93 c	lBm	NCTION FUN	CTION WIDTH		FUNCTION VALUE	^
2 N 8 N	1 t 1 t		1.506 ms 9.892 ms	5.02 c -3.25 c						
)										
										~
							STATUS			
6			D	uty Cycl	e NVN	NT b 24		2		
<mark>ent Spec</mark> t R L	Ri						37MHz		09:04:2	2 AM Sep 10, 2024
RL	Ri		) 00 GHz	SENS PNO: Fast +++		Run	37MHz	Z :: Log-Pwr	09:04:2	
ent Spect RL enter F	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE	DO GHz	SEN	SE:PULSE	Run	37MHz		Mkr1	22 AM Sep 10, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N 3.292 ms
ent Spect R L nter F	req Re	50 Ω AC 2.43700000	DO GHz	SENS PNO: Fast +++	SE:PULSE	Run	37MHz		Mkr1	22 AM Sep 10, 2024 TRACE 12 3 4 5 6 TYPE WWWWWW DET P N N N N N
ent Spect RL nter F dB/div	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SENC PNO: Fast Gain:Low	55:PULSE Trig: Free #Atten: 40	Run e dB	37MH2	: Log-Pwr	Mkr1	22 AM Sep 10, 2024 TRACE 12: 3: 4: 5: 6 TYPE WANNINN N 3.292 ms 8.74 dBm
ant Spect RL nter F	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SENS PNO: Fast +++	55:PULSE Trig: Free #Atten: 40	Run e dB	37MH2	: Log-Pwr	Mkr1	22 AM Sep 10, 2024 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET P N N N N 3.292 ms
dB/div	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SENC PNO: Fast Gain:Low	55:PULSE Trig: Free #Atten: 40	Run e dB	37MH2	: Log-Pwr	Mkr1	22 AM Sep 10, 2024 TRACE 12: 3: 4: 5: 6 TYPE WANNINN N 3.292 ms 8.74 dBm
dB/div 9 .0 .0 .0	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SENC PNO: Fast Gain:Low	55:PULSE Trig: Free #Atten: 40	Run e dB	37MH2	: Log-Pwr	Mkr1	22 AM Sep 10, 2024 TRACE 12: 3: 4: 5: 6 TYPE WANNINN N 3.292 ms 8.74 dBm
ent Spect RL inter F 9 .0 .0 .0 .0 .0 .0	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SENC PNO: Fast Gain:Low	55:PULSE Trig: Free #Atten: 40	Run e dB	37MH2	: Log-Pwr	Mkr1	22 AM Sep 10, 2024 TRACE 12: 3: 4: 5: 6 TYPE WANNINN N 3.292 ms 8.74 dBm
Ient Spect RL enter F 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	req Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SENC PNO: Fast Gain:Low	55:PULSE Trig: Free #Atten: 40	Run e dB	37MH2	: Log-Pwr	Mkr1	22 AM Sep 10, 2024 TRACE 12: 3: 4: 5: 6 TYPE WANNINN N 3.292 ms 8.74 dBm
RL           anter F           300           300 <td>Re Re Re</td> <td>50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm</td> <td>DO GHZ</td> <td>SEN SOL: Fast Gain:Low</td> <td>SE:PULSE Trig: Free #Atten: 40</td> <td></td> <td>37MH2</td> <td>: Log-Pwr</td> <td>Mkr1</td> <td>224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111</td>	Re Re Re	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SEN SOL: Fast Gain:Low	SE:PULSE Trig: Free #Atten: 40		37MH2	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111
dB/div g anter F dB/div g a a a a a a a a a a a a a a a a a a	Reg Reg Reg 	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	×	SEN PNO: Fast → Gain:Low #VBW	SE:PULSE Trig: Free #Atten: 40	2 Run dB	37MH2	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 23 4 5 6 DEFINITION DEFINITION 3.292 ms 8.74 dBm
dB/div gg gg gg gg gg gg gg gg gg gg gg gg gg	.437(0 1.0 M 1.0 M	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	DO GHZ	SEN SOL: Fast ↔ Gain:Low #VBW #VBW	SE:PULSE Trig: Free #Atten: 40 Information V 3.0 MHz FUR IBm	2 Run dB	37MHz	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111
Ient Spect RL enter F 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	.437( 1.0 M	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	3 3.292 ms 3.330 ms	SEN SOL: Fast ← Gain:Low #VBW #VBW	SE:PULSE Trig: Free #Atten: 40 Information V 3.0 MHz FUR IBm	2 Run dB	37MHz	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111
ent Spect	.437(0 1.0 M 1.0 M	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	3 3.292 ms 3.330 ms	SEN SOL: Fast ← Gain:Low #VBW #VBW	SE:PULSE Trig: Free #Atten: 40 V 3.0 MHz FUR IBm	2 Run dB	37MHz	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111
alb/div alb	.437(0 1.0 M 1.0 M	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	3 3.292 ms 3.330 ms	SEN SOL: Fast ← Gain:Low #VBW #VBW	SE:PULSE Trig: Free #Atten: 40 V 3.0 MHz FUR IBm	2 Run dB	37MHz	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111
er 2 BW	.437(0 1.0 M 1.0 M	50 Ω AC 2.43700000 f Offset 2.88 dE f 30.00 dBm	3 3.292 ms 3.330 ms	SEN SOL: Fast ← Gain:Low #VBW #VBW	SE:PULSE Trig: Free #Atten: 40 V 3.0 MHz FUR IBm	2 Run dB	37MHz	: Log-Pwr	Mkr1	224M Sep 10, 2024 IRACE 123456 TYPE WWWWWWWW 3.292 ms 8.74 dBm 1.11111111111111111111111111111111111

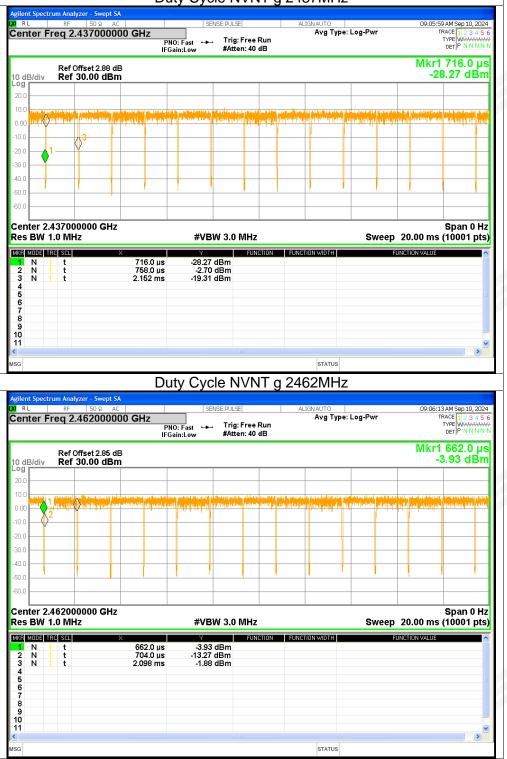












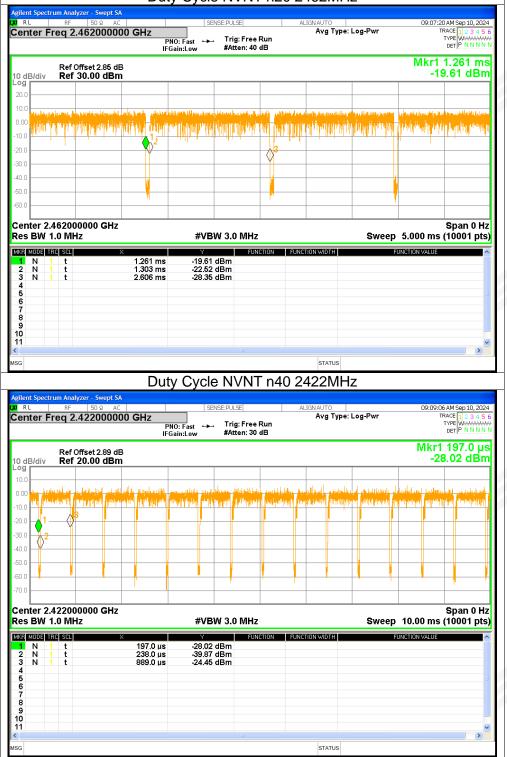






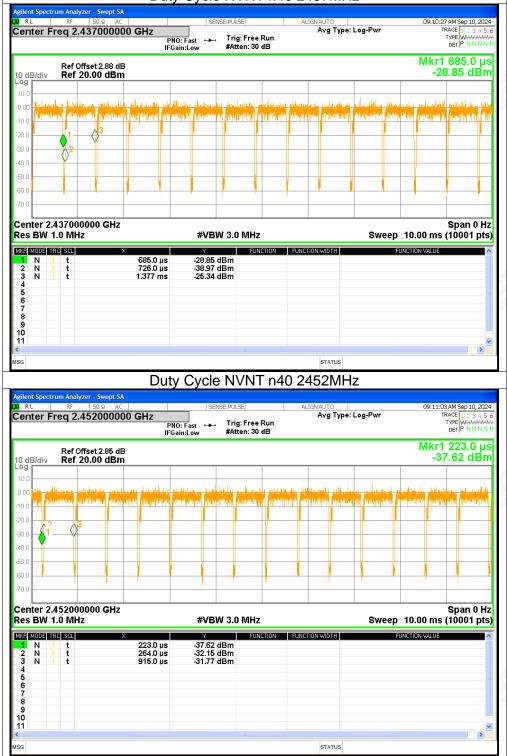








## Duty Cycle NVNT n40 2437MHz

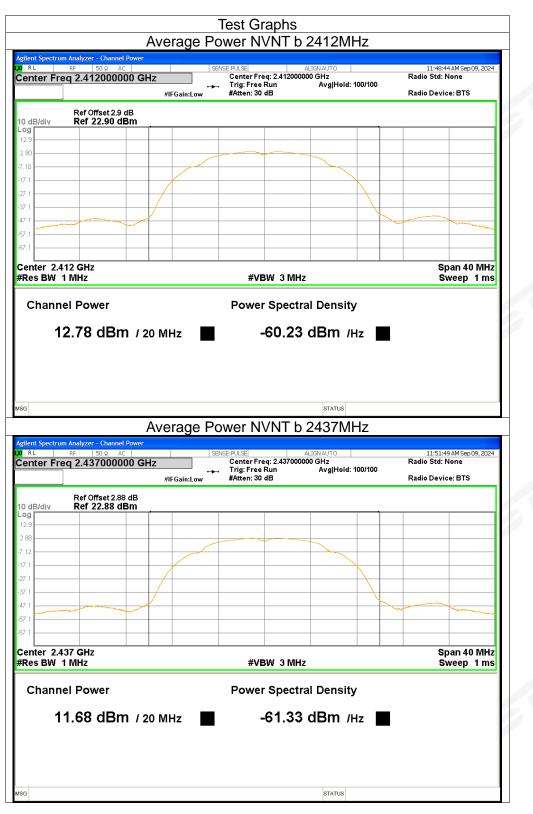




# 2. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	12.78	0.02	12.8	<=30	Pass
NVNT	b	2437	11.68	0.02	11.7	<=30	Pass
NVNT	b	2462	10.94	0.02	10.96	<=30	Pass
NVNT	g	2412	9.96	0.13	10.09	<=30	Pass
NVNT	g	2437	9.01	0.13	9.14	<=30	Pass
NVNT	g	2462	8.61	0.13	8.74	<=30	Pass
NVNT	n20	2412	10.02	0.14	10.16	<=30	Pass
NVNT	n20	2437	9.01	0.14	9.15	<=30	Pass
NVNT	n20	2462	8.31	0.14	8.45	<=30	Pass
NVNT	n40	2422	8.95	0.27	9.22	<=30	Pass
NVNT	n40	2437	8.47	0.27	8.74	<=30	Pass
NVNT	n40	2452	8.29	0.27	8.56	<=30	Pass











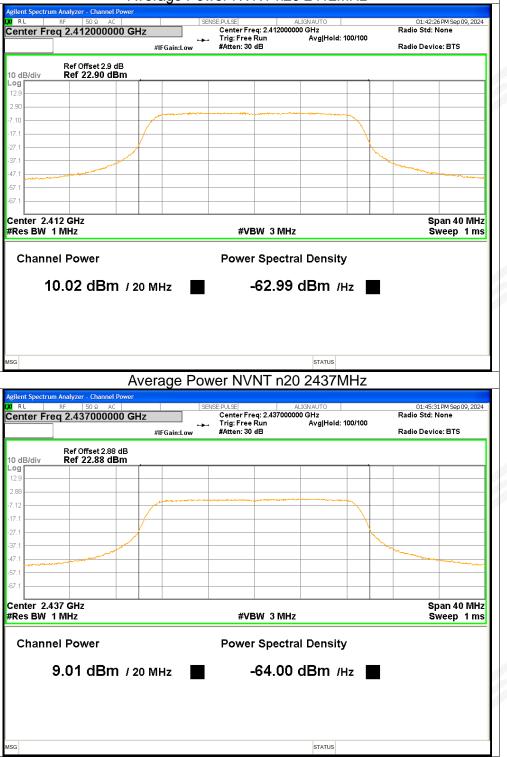






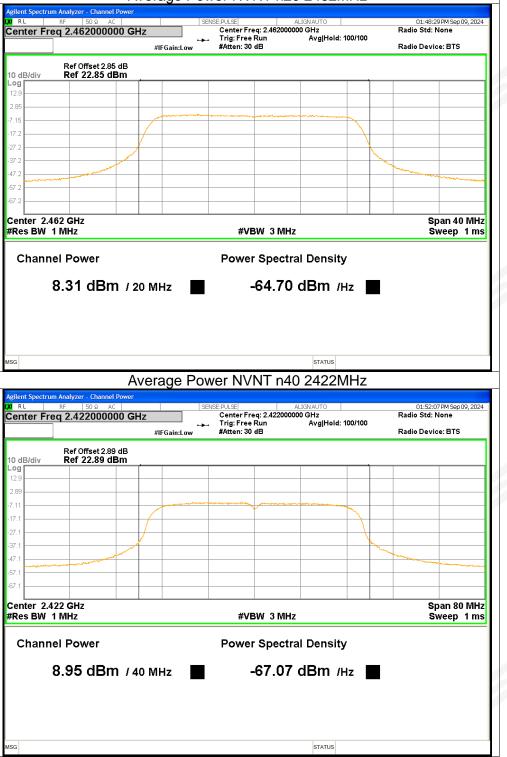






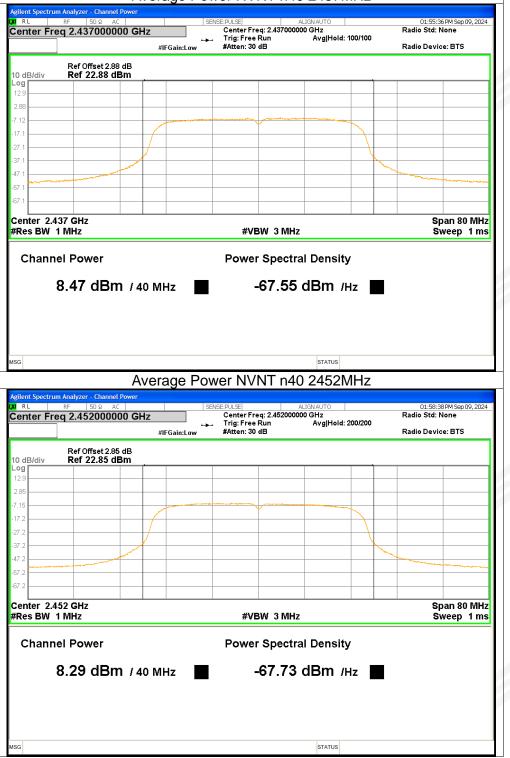








## Average Power NVNT n40 2437MHz





# 3. Maximum Peak Conducted Output Power

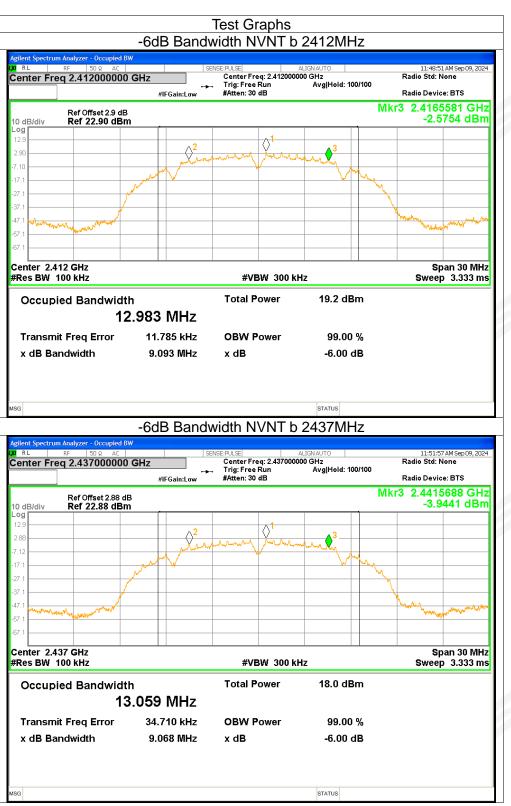
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
	WOUE	•			
NVNT	b	2412	15.79	<=30	Pass
NVNT	b	2437	14.69	<=30	Pass
NVNT	b	2462	13.9	<=30	Pass
NVNT	g	2412	17.84	<=30	Pass
NVNT	g	2437	16.87	<=30	Pass
NVNT	g	2462	16.46	<=30	Pass
NVNT	n20	2412	18.14	<=30	Pass
NVNT	n20	2437	17.09	<=30	Pass
NVNT	n20	2462	16.35	<=30	Pass
NVNT	n40	2422	17.29	<=30	Pass
NVNT	n40	2437	16.85	<=30	Pass
NVNT	n40	2452	16.61	<=30	Pass



## 4. -6dB Bandwidth

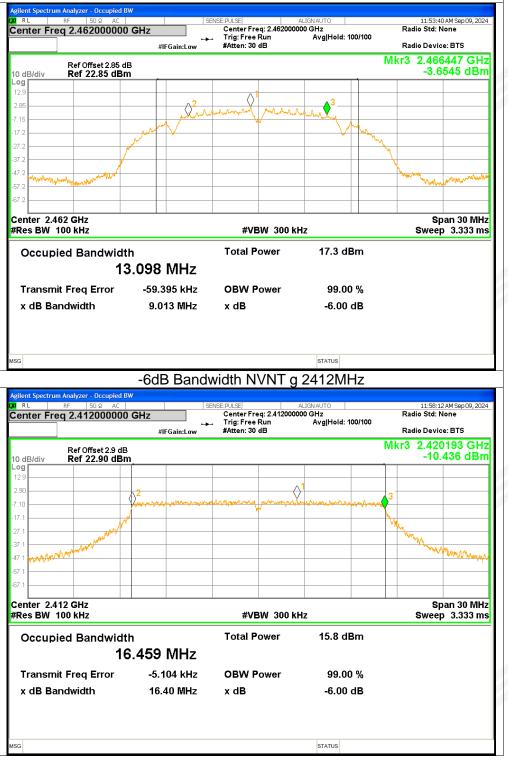
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	9.0926	>=0.5	Pass
NVNT	b	2437	9.0681	>=0.5	Pass
NVNT	b	2462	9.0128	>=0.5	Pass
NVNT	g	2412	16.3961	>=0.5	Pass
NVNT	g	2437	16.493	>=0.5	Pass
NVNT	g	2462	16.4374	>=0.5	Pass
NVNT	n20	2412	17.0344	>=0.5	Pass
NVNT	n20	2437	17.362	>=0.5	Pass
NVNT	n20	2462	17.5618	>=0.5	Pass
NVNT	n40	2422	33.5562	>=0.5	Pass
NVNT	n40	2437	33.5807	>=0.5	Pass
NVNT	n40	2452	32.9352	>=0.5	Pass





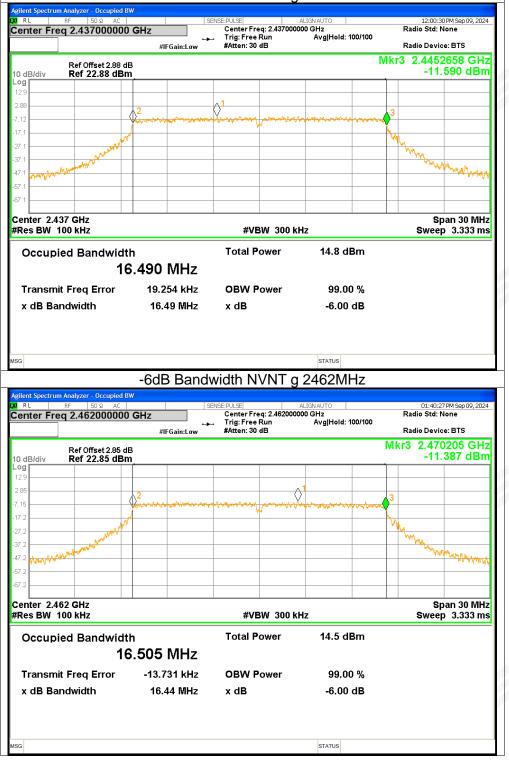


#### -6dB Bandwidth NVNT b 2462MHz



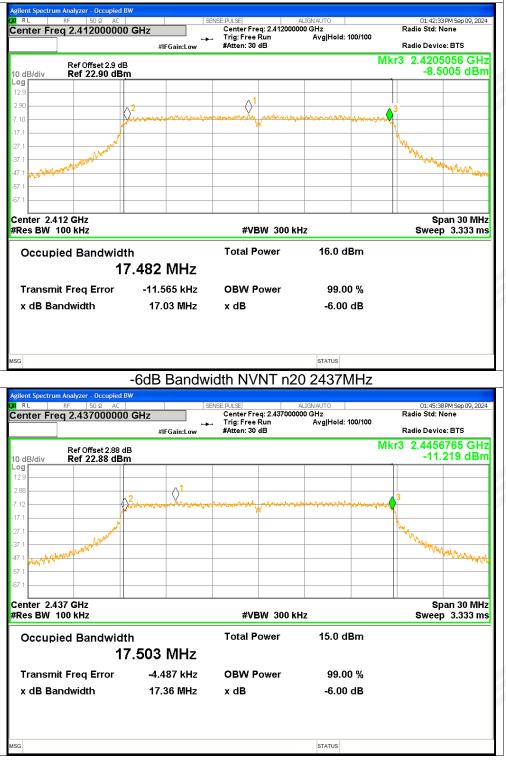


## -6dB Bandwidth NVNT g 2437MHz



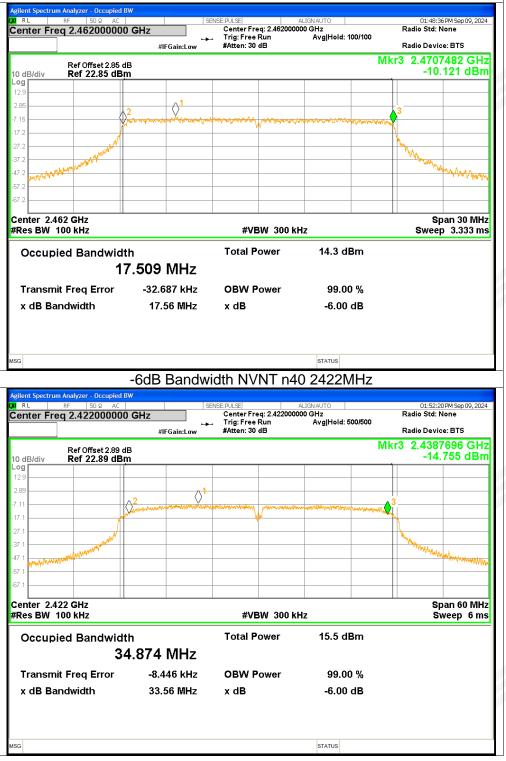


## -6dB Bandwidth NVNT n20 2412MHz





## -6dB Bandwidth NVNT n20 2462MHz





## -6dB Bandwidth NVNT n40 2437MHz

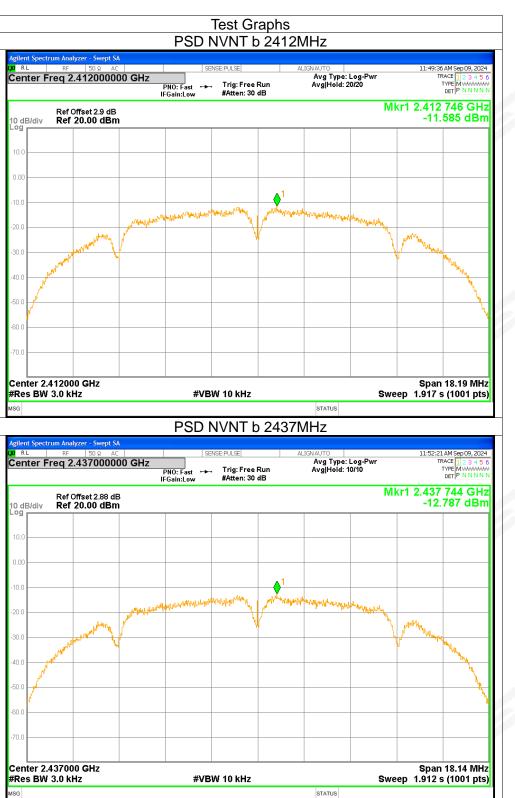




# 5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-11.59	<=8	Pass
NVNT	b	2437	-12.79	<=8	Pass
NVNT	b	2462	-13.64	<=8	Pass
NVNT	g	2412	-17.35	<=8	Pass
NVNT	g	2437	-17.33	<=8	Pass
NVNT	g	2462	-18.05	<=8	Pass
NVNT	n20	2412	-15.22	<=8	Pass
NVNT	n20	2437	-15.54	<=8	Pass
NVNT	n20	2462	-17.21	<=8	Pass
NVNT	n40	2422	-17.74	<=8	Pass
NVNT	n40	2437	-17.69	<=8	Pass
NVNT	n40	2452	-17.46	<=8	Pass

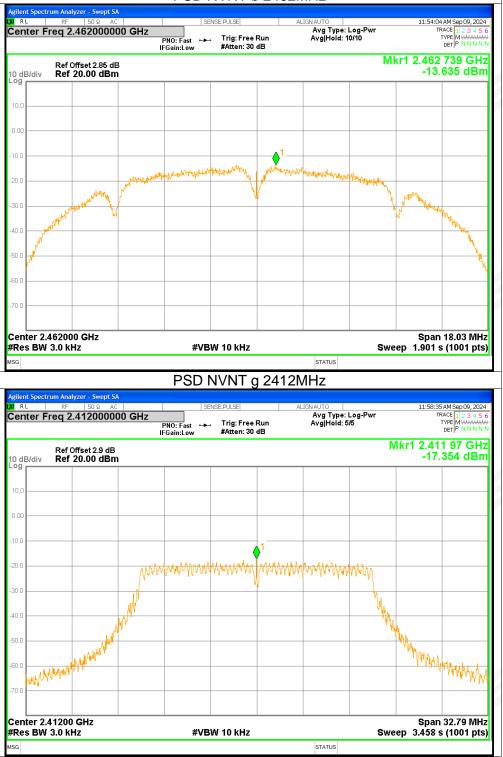




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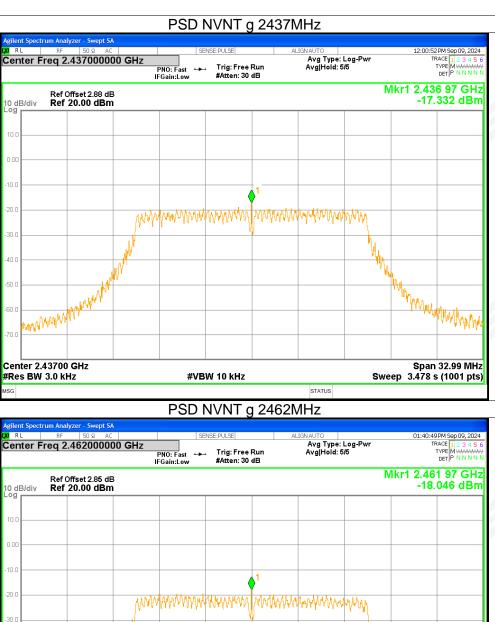
#Res BW 3.0 kHz

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Span 32.87 MHz

Sweep 3.466 s (1001 pts)

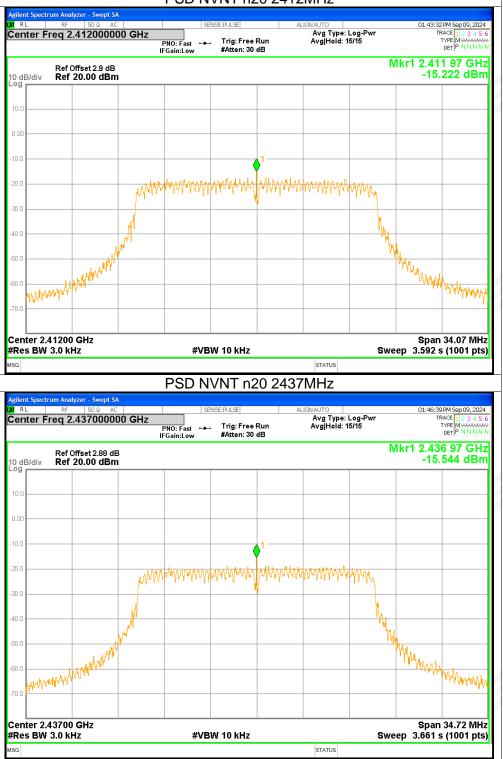


#VBW 10 kHz

STATUS



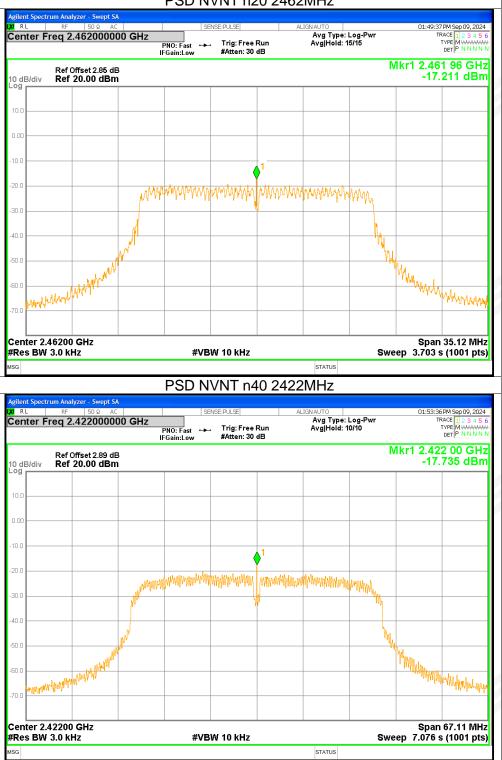




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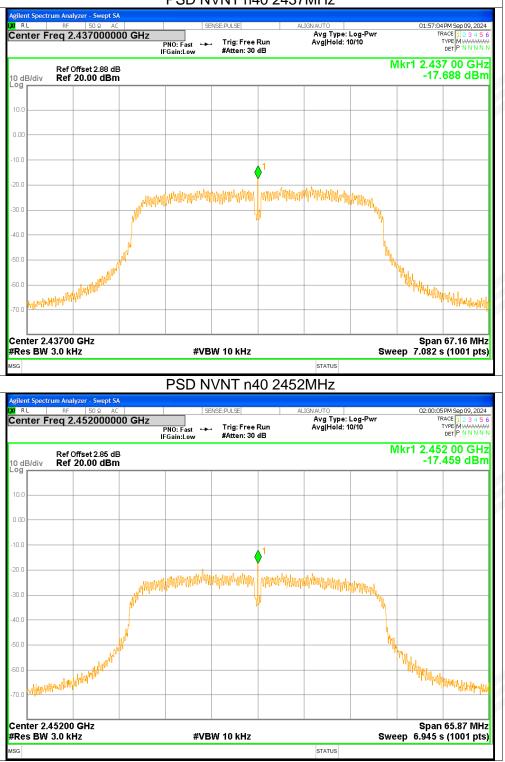








PSD NVNT n40 2437MHz





# 6. Band Edge

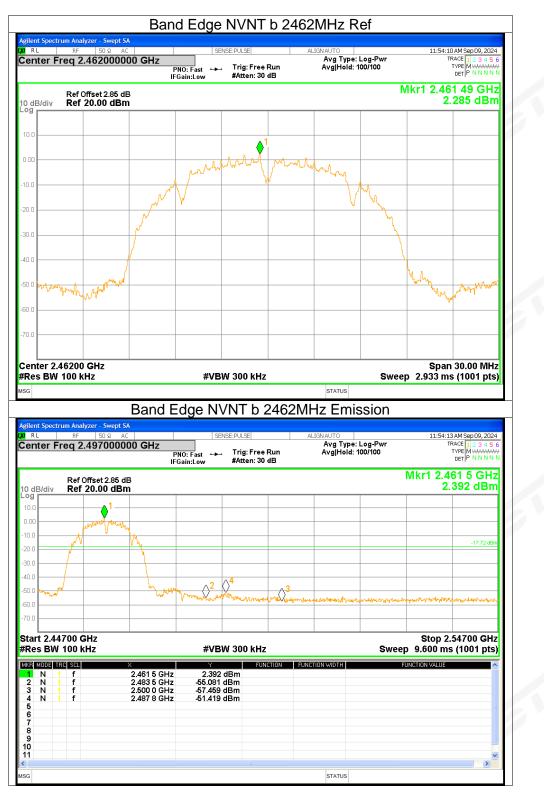
	- 3 -				
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-49.26	<=-20	Pass
NVNT	b	2462	-53.7	<=-20	Pass
NVNT	g	2412	-37.74	<=-20	Pass
NVNT	g	2462	-47.15	<=-20	Pass
NVNT	n20	2412	-36.8	<=-20	Pass
NVNT	n20	2462	-48.01	<=-20	Pass
NVNT	n40	2422	-35.52	<=-20	Pass
NVNT	n40	2452	-42.69	<=-20	Pass









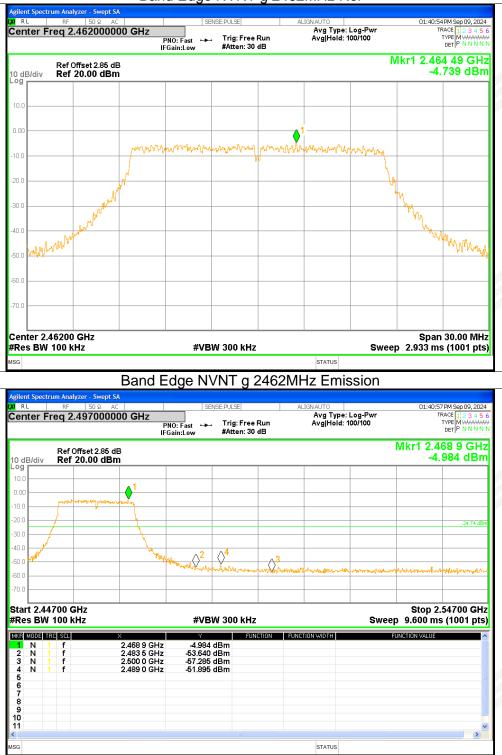




			PULSE	ALIGNAUTO Avg Type:			O AM Sep 09, 2024
<b>.</b>			Trig: Free Run #Atten: 30 dB	Avg Hold: 1			DET P N N N N
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BW 100 kHz			<sup>300 кнz</sup> NT g 2412	status MHz Emis			
BW 100 kHz Spectrum Analyzer - S RF 50	iwept SA Ω AC D00000 GHz		NT g 2412 PUGE Trig: Free Run		SSION	p 2.933 m	30.00 MHz s (1001 pts 3AM Sep 09, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW
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BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset 2	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	S (1001 pts 3AM Sep 09, 2024 TRACE 1 2 3 4 5 1 TYPE MWWWW DET P N N N N
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset:	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts 3AM Sep09, 2024 TRACE 1 2 3 4 5 TYPE M NN NN DET P. NN NN 14 5 GHz
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset:	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts 3AM Sep09, 2024 TRACE 1 2 3 4 5 TYPE M NN NN DET P. NN NN 14 5 GHz
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset:	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts 3AM Sep09, 2024 TRACE 1 2 3 4 5 TYPE M NN NN DET P. NN NN 14 5 GHz
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset:	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset:	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts
er Freq 2.377( Ref Offset 2	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset2	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	dge NVN sense	NT g 2412 PUGE Trig: Free Run	MHz Emis	SSION Log-Pwr 00/100	p 2.933 m	s (1001 pts
BW 100 kHz Spectrum Analyzer - S RF 50 er Freq 2.377( Ref Offset2	wept SA Ω AC     000000 GHz PN IFG 2.9 dB	UC: Fast ain:Low → 3	NT g 2412 PUGE Trig: Free Run	MHz Emis	Log-Pwr 00/100	p 2.933 m	s (1001 pts
BW 100 kHz  Spectrum Analyzer - S  Ref Offset  div Ref 2.377(  Ref Offset  2.32700 GHz BW 100 kHz	x	dge NVN SENSE D0: Fast ain:Low ↔ S	NT g 2412	MHz Emis	SSION	p 2.933 m	s (1001 pts
BW 100 kHz  Spectrum Analyzer - S  RF 50 er Freq 2.3770  Ref Offset 2  div Ref 20.00  2.32700 GHz BW 100 kHz  D03 h72 501  1 f	weept SA         R         AC         PN           2000000 GHz         PN         IFG           2.9 dB         0 dBm         IFG           2.9 dB         0 dBm         IFG	dge NVN	NT g 2412		SSION	p 2.933 m 11:58:- Mkr1 2.4 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	s (1001 pts
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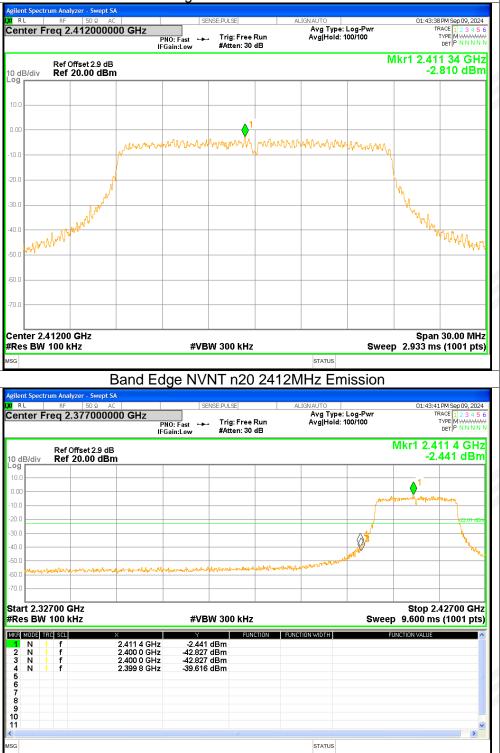






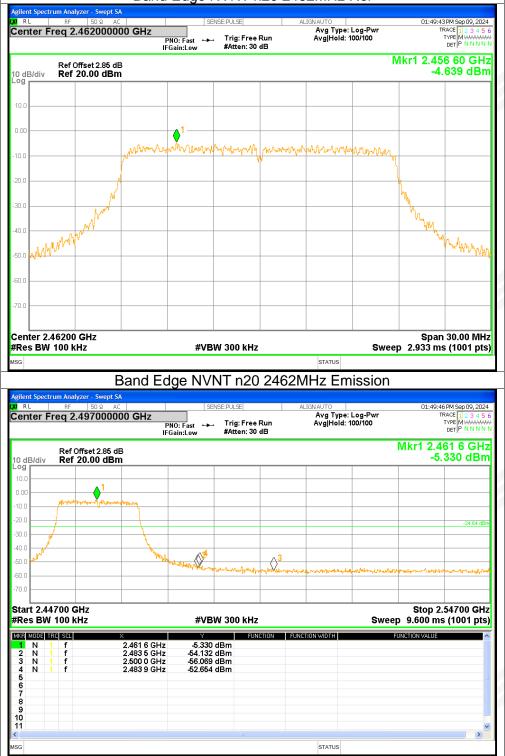








## Band Edge NVNT n20 2462MHz Ref





#### Band Edge NVNT n40 2422MHz Ref :42 PM Sep 09, 2024 TRACE 1 2 3 4 5 TYPE M WWWWW DET P N N N N B L Center Freq 2.422000000 GHz Avg Type: Log-Pw Avg|Hold: 200/200 Trig: Free Run #Atten: 30 dB PNO: Fast 🔸 Mkr1 2.412 88 GHz Ref Offset 2.89 dB Ref 20.00 dBm -6.915 dBm 10 dB/div 0.0 Ø 20.0 30.0 40 r and the form 50.0 60.0 Center 2.42200 GHz Span 60.00 MHz #VBW 300 kHz Sweep 5.800 ms (1001 pts) #Res BW 100 kHz STATUS ISG Band Edge NVNT n40 2422MHz Emission Swept SA gilent Spectrum Analyzer 01:53:45 PM Sep 09, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N R L Center Freg 2.402000000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.412 9 GHz Ref Offset 2.89 dB -7.300 dBm 10 dB/div Ref 20.00 dBm 0.0 10.0 י חכ -26.92 d 30.0 $\langle \rangle$ 40.0 50. Start 2.35200 GHz Stop 2.45200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) MKR MODE TRC SCL FUNCTION FUNCTION WIDTH FUNCTION VALUE -7.300 dBm -43.642 dBm -43.642 dBm -42.431 dBm 2.412 9 GHz 2.400 0 GHz 2.400 0 GHz 2.399 7 GHz N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG



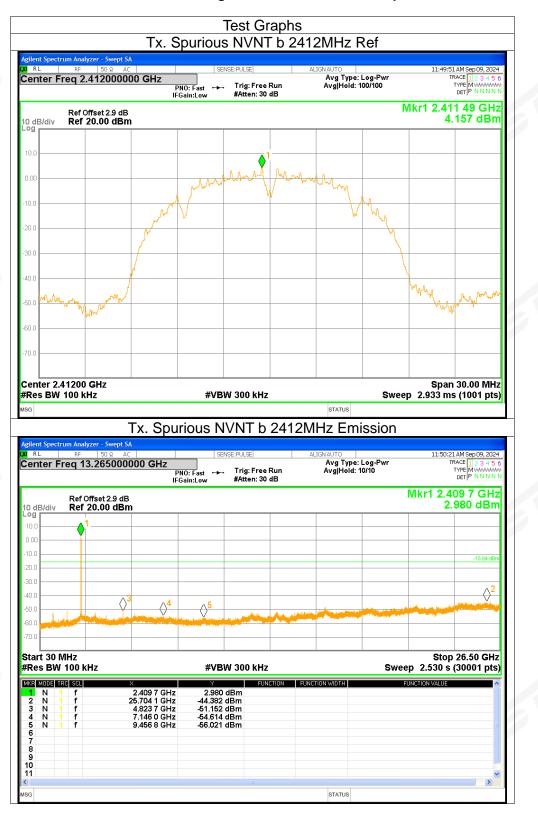
#### Band Edge NVNT n40 2452MHz Ref :00:12 PM Sep 09, 2024 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N B L Center Freq 2.452000000 GHz Avg Type: Log-Pw Avg|Hold: 200/200 Trig: Free Run #Atten: 30 dB PNO: Fast 🔸 Mkr1 2.444 20 GHz Ref Offset 2.85 dB Ref 20.00 dBm -7.059 dBm 10 dB/div 0.0 0 20.0 30.0 40 r 50.0 60. Center 2.45200 GHz Span 60.00 MHz #VBW 300 kHz Sweep 5.800 ms (1001 pts) #Res BW 100 kHz STATUS ISG Band Edge NVNT n40 2452MHz Emission Swept SA gilent Spectrum Analyzer 02:00:15 PM Sep 09, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N B L Center Freg 2.472000000 GHz Avg Type: Log-Pwi Avg|Hold: 100/100 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.444 5 GHz Ref Offset 2.85 dB Ref 20.00 dBm -7.559 dBm 10 dB/div 0.0 "♦ 10.0 י חכ -27.06 d 30.0 40.0 $\langle \rangle$ 50.0 $\ominus$ Stop 2.52200 GHz Start 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 9.600 ms (1001 pts) FUNCTION VALUE MKR MODE TRC SCL FUNCTION FUNCTION WIDTH -7.559 dBm -51.573 dBm -55.684 dBm -49.751 dBm 2.444 5 GHz 2.483 5 GHz 2.500 0 GHz 2.484 5 GHz N N N 1 2 3 4 5 6 7 8 9 10 11 STATUS SG



# 7. Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-48.54	<=-20	Pass
NVNT	b	2437	-46.58	<=-20	Pass
NVNT	b	2462	-46.26	<=-20	Pass
NVNT	g	2412	-39.47	<=-20	Pass
NVNT	g	2437	-40.25	<=-20	Pass
NVNT	g	2462	-39.71	<=-20	Pass
NVNT	n20	2412	-40.88	<=-20	Pass
NVNT	n20	2437	-39.42	<=-20	Pass
NVNT	n20	2462	-39.25	<=-20	Pass
NVNT	n40	2422	-36.73	<=-20	Pass
NVNT	n40	2437	-37.34	<=-20	Pass
NVNT	n40	2452	-37.11 🧼	<=-20	Pass







RL	m Analyzer - Swep RF 50 Ω eq 2.437000	AC	SENS	E:PULSE	ALIGNAUTO Avg Type:	Log-Pwr	11:52:2	7 AM Sep 09, 2024 RACE 1 2 3 4 5 6
	eq 2.457000		PNO: Fast 🔸	Trig: Free Run #Atten: 30 dB	Avg Hold: 1	100/100		DET P N N N N N
B/div	Ref Offset 2.88 Ref 20.00 dE							6 49 GHz .143 dBm
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nter 2.4	3700 GHz						Spar	1 30.00 MHz
			#VBW	300 kHz	STATUS	Swee		n 30.00 MHz s (1001 pts)
es BW 1					status 37MHz Emi			
nt Spectru	100 kHz	AC 0000 GHz		/NT b 243	ALIGNAUTO AVg Type:	ission	p 2.933 m	7 AM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPEIM WWWWW
es BW 1	100 kHz m Analyzer - Swep RF 50 Ω eq 13.26500	AC    00000 GHz 	urious N∖	/NT b 243	37MHz Emi	ission	p 2.933 m	s (1001 pts)
nt Spectru	IOO KHZ m Analyzer - Swep RF 50 Ω	dB		/NT b 243 E:PULSE Trig: Free Run	ALIGNAUTO AVg Type:	ission	2.933 m 11:52:5 Mkr1 2.4	5 (1001 pts) 7 AM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE M N N N N DET P N N N N N
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nt Spectru	100 kHz m Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 2.88	dB		/NT b 243 E:PULSE Trig: Free Run	ALIGNAUTO AVg Type:	ission	2.933 m 11:52:5 Mkr1 2.4	7.4M Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N 38 8 GHz
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nt Spectru hter Fra HB/div	100 kHz m Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 2.88	dB		/NT b 243 E:PULSE Trig: Free Run	ALIGNAUTO AVg Type:	ission	2.933 m 11:52:5 Mkr1 2.4	7 AM Sep 09, 2024 RACE 12 3 4 5 6 TYPE MWMMM DET P NNNN 38 8 GHz 764 dBm
at Spectru at Spectru	100 kHz m Analyzer - Swep RF 50 Ω eq 13.26500 Ref 0ffset 2.88 Ref 20.00 db	dB	PNO: Fast FGain:Low	/NT b 243 E:PULSE Trig: Free Run	ALIGNAUTO AVg Type:	Log-Pwr 10/10	p 2.933 m	7 AM Sep 09, 2024 RACE 12 3 4 5 6 TYPE MWMMM DET P NNNN 38 8 GHz 764 dBm
IL Spectru IL Spectru IB/div	m Analyzer - Swep RF 50 0 eq 13.26500 Ref Offset 2.88 Ref 2.000 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	ESA AC   00000 GHz dB 3m ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	PNO: Fast FGain:Low	/NT b 243	ALIGNAUTO AVg Type:	Log-Pwr Io/10	p 2.933 m	7 AM Sep 09, 2024 RACE 103 4 5 6 TP 10 23 4 5 6 TP 10 10 23 4 5 6 TP 10 10 10 23 4 5 6 TP 10 10 10 10 10 TP 10 10 10 10 TP 10 10 10 10 TE 20 40 TE
nt Spectru nter Fra B/div B	m Analyzer Swep RF 50 Ω eq 13.26500 Ref Offset 2.88 Ref 20.00 dE 1 1 1 1 1 1 1 1 1 1 1 1 1	x 2.438 8 GH2 2.438 8 GH2 4.874 0 GH2 4.874 0 GH2	Irious NV     SENSI     FGain:Low     #VBW	/NT b 243	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr Io/10	p 2.933 m	7 AM Sep 09, 2024 RACE 103 4 5 6 TP 10 23 4 5 6 TP 10 10 23 4 5 6 TP 10 10 10 23 4 5 6 TP 10 10 10 10 10 TP 10 10 10 10 TP 10 10 10 10 TE 20 40 TE
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ant Spectru ant Spectru anter From alb/div albb/div	100 kHz m Analyzer - Swep RF 50 Ω eq 13.26500 Ref Offset 2.88 Ref 20.00 dB 1 1 1 1 1 1 1 1 1 1 1 1 1	ESA AC   00000 GHz I dB 3m ↓ 2.438 8 GHz 2.438 8 GHz 2.438 8 GHz 2.438 8 GHz 2.438 6 GHz	Irious NV     SENSI     PNO: Fast →     FGain:Low	/NT b 243	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr Io/10	p 2.933 m	7 AM Sep 09, 2024 RACE 103 4 5 6 TP 10 23 4 5 6 TP 10 10 23 4 5 6 TP 10 10 10 23 4 5 6 TP 10 10 10 10 10 TP 10 10 10 10 TP 10 10 10 10 TE 20 40 TE



ent Spectrum Analyzer - S R L RF 50	Swept SA Ω AC	000	SE:PULSE	ALIGN AUTO	Ref	11.07-17	3 AM Sep 09, 2024
nter Freq 2.4620		PNO: Fast	Trig: Free Run #Atten: 30 dB	Aug Type: Avg Hold: 1		TF	RACE         1         2         3         4         5         6           TYPE         M         M         M         M         M           DET         P         N         N         N         N         N         N
Ref Offset 2 dB/div Ref 20.00						Mkr1 2.46 2.	1 49 GHz 317 dBm
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nter 2.46200 GHz							30.00 MHz
es BW 100 kHz		#VBV	V 300 kHz		CWA	ep 2.933 ms	s (1001 pfs)
					GWC	op 20000 m	, (100 F Bro)
	T. 0.			STATUS		op 2000 m	
ent Spectrum Analyzer - S		ourious N	VNT b 246	status S2MHz Emi			
RL   RF   50	Swept SA Ω AC	SEN:	6E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49	9 AM Sep 09, 2024
RL   RF   50	Swept SA Ω AC	SEN:		62MHz Emi	SSION	11:54:49 Tf	AM Sep 09, 2024 ACE 123456 TYPE MWWWWWW DET PNNNNN
RL RF 50 nter Freq 13.265 Ref Offset 2 dB/div Ref 20.00	2.85 dB	SEN: PNO: Fast ↔	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	AM Sep 09, 2024 ACE 123456 TYPE MWWWWWW DET PNNNNN
RL RF 50 nter Freq 13.265 Ref Offset2 dB/div Ref 20.00	2.85 dB	SEN: PNO: Fast ↔	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	AM Sep09, 2024 AACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N 62 6 GHZ
RE Freq 13.265	2.85 dB	SEN: PNO: Fast ↔	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	AM Sep09, 2024 AACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N 62 6 GHZ
RE Freq 13.265	2.85 dB	SEN: PNO: Fast ↔	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	AM Sep09, 2024 AACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N 62 6 GHZ
Ref Offset 2 Ref Offset 2 dB/div Ref 20.00	2.85 dB	SEN: PNO: Fast	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	24M Sep 09, 2024 ACCE 12 3 4 5 6 TYPE M WWWW DET P N NN N 62 6 GHz 091 dBm
Ref Offset	2.85 dB	SEN: PNO: Fast	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	24M Sep 09, 2024 ACCE 12 3 4 5 6 TYPE M WWWW DET P N NN N 62 6 GHz 091 dBm
nter Freq 13.265 Ref Offset	2.85 dB	SEN: PNO: Fast	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 TF Mkr1 2.4	24M Sep 09, 2024 ACCE 12 3 4 5 6 TYPE M WWWW DET P N NN N 62 6 GHz 091 dBm
Ref Offset 3 BB/div Ref 20.00	2.85 dB	PNO: Fast IFGain:Low	5E:PULSE	62MHz Emi Alignauto Avg Type:	SSION	11:54:49 Tr Mkr1 2.4 2.	2AM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE M WWWWWW 62 6 GHz 091 dBm -17.68 dBm -17.68 dBm 26.50 GHz
Ref Offset 3 BE/div Ref 20.00	x AC 5000000 GHz	PNO: Fast IFGain:Low	EE:PULSE Trig: Free Run #Atten: 30 dB	62MHz Emi Alignauto Avg Type:	SSION	11:54:45	2AM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE M WWWWWW 62 6 GHz 091 dBm -17.68 dBm -17.68 dBm 26.50 GHz
Ref Offset: Ref Offset: Ref Offset: Ref Offset: Ref Offset: Ref Offset: Ref Offset: Ref Offset:	x 2.85 dB 0 dBm 2.85 cB 0 dBm 2.85 dB 0 dBm	PN0: Fast IFGain:Low #VBV #VBV #VBV Hz 2.091 c Hz 43.945 c Hz 3.900 c	SE:PULSE Trig: Free Run #Atten: 30 dB	S2MHz Emi	SSION	11:54:46 ■ Mkr1 2.4 2. 2. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	2AM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE M WWWWWW 62 6 GHz 091 dBm -17.68 dBm -17.68 dBm 26.50 GHz
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Ref Offset2 Ref Offset2 Ref Offset2 B/div Ref 20.00 1 1 1 1 1 1 1 1 1 1 1 1 1	x ept 5A 2 AC 5000000 GHz 2.85 dB 0 dBm 2.85 dB 0 dBm 2.462 6 G 2.5.855 9 G 4.924 3 G 7.565 1 G	PN0: Fast → IFGain:Low #VBV #VBV	EE:PULSE Trig: Free Run #Atten: 30 dB	S2MHz Emi	SSION	11:54:46 ■ Mkr1 2.4 2. 2. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	2AM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE M WWWWWW 62 6 GHz 091 dBm -17.68 dBm -17.68 dBm 26.50 GHz



nt Spectrum Analyzer L RF Iter Freq 2.41	50 Ω AC		NSE:PULSE     . Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Avg Hold:	100/100		49 AM Sep 09, 2024 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N
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nt Spectrum Analyzer	<b>Τχ. 5</b> - Swept SA 50 Ω AC	Spurious N	W 300 kHz IVNT g 241 NSE:PULSE		ission ⊾₀g-₽wr	ep 2.933 n 11:59:	n 30.00 MHz ns (1001 pts) 47 AM Sep 09, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW
nt Spectrum Analyzer L RF 1 Iter Freq 13.2	Tx. \$ - Swept SA 50 Ω AC   265000000 GI	Spurious N	IVNT g 241	2MHz Em Alignauto Avg Type:	ission ⊾₀g-₽wr	2.933 n 11:59: Mkr1 2.4	47 AM Sep 09, 2024 17 AM Sep 09, 2024 12 3 4 5 6 12
nt Spectrum Analyzer L RF I Iter Freq 13.2 Ref Offs	<b>Τχ. 5</b> - Swept SA 50 Ω AC	Spurious N	IVNT g 241	2MHz Em Alignauto Avg Type:	ission ⊾₀g-₽wr	2.933 n 11:59: Mkr1 2.4	47 AM Sep 09, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N P
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nt Spectrum Analyzer L RF Iter Freq 13.2 B/div Ref Offs 1 1	Tx. S 50 x AC 65000000 Gi et 2.9 dB 00 dBm	Spurious N Hz PNO: Fast IFGain:Low	IVNT g 241	2MHz Em Alignauto Avg Type:	ission ⊾₀g-₽wr	2.933 n 11:59: Mkr1 2.4	47.4MSep09,2024 TRACE 12.3.4.5 Type 11.2.3.4.5 Type 11.2.3.4.5 Type 11.2.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Hold The 13.4.5 Hold The 13
It Spectrum Analyzer RF Iter Freq 13.2 Ref Offs B/div Ref 20	Tx. 5	Spurious N	IVNT g 241	2MHz Em Alignauto Avg Type:	ission ⊾₀g-₽wr	2.933 n 11:59: Mkr1 2.4	47.4MSep09,2024 TRACE 12.3.4.5 Type 11.2.3.4.5 Type 11.2.3.4.5 Type 11.2.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Hold The 13.4.5 Hold The 13
nt Spectrum Analyzer L RF Iter Freq 13.2 B/div Ref Offs Iter for the second	Tx. S 50 x AC 65000000 Gi et 2.9 dB 00 dBm	Spurious N Hz PNO: Fast IFGain:Low	IVNT g 241	2MHz Em Alignauto Avg Type:	ission ⊾₀g-₽wr	2.933 n 11:59: Mkr1 2.4	47.4MSep09,2024 TRACE 12.3.4.5 Type 11.2.3.4.5 Type 11.2.3.4.5 Type 11.2.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Type 12.3.4.5 Hold The 13.4.5 Hold The 13
nt Spectrum Analyzer L RF Iter Freq 13.2 B/div Ref 20	Tx. S 50 x AC 65000000 Gi et 2.9 dB 00 dBm	Spurious N Hz PNO: Fast IFGain:Low	IVNT g 241	2MHz Em Alignauto Avg Type:	ission ⊾₀g-₽wr	11:59: Mkr1 2.4 -3	47AMSep09,2024 TRACE [12:3:45 tree [12:3:45
nt Spectrum Analyzer ter Freq 13.2 B/div Ref 20 1 1 1 1 1 1 1 1 1 1 1 1 1	Tx. 5	Spurious N Hz PN0: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	IVNT g 241	2MHz Em	ISSION Log-Pwr 20/20	mkr1 2.4 -3 -3 	47.4M Sep 09, 2024 TRACE [1 2 3 4 5 6 TYPE [] WINN N 409 7 GHz 3.779 dBm 2340 dBm 23
nt Spectrum Analyzer ter Freq 13.2 B/div Ref 20, Freq 13.2 Ref Offs Ref Offs ref 30 MHz s BW 100 kHz MODE TRE SCL	Tx. S	Spurious N Hz PNO: Fast IFGain:Low ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	IVNT g 241	2MHz Em Alignauto Avg Type:	ISSION Log-Pwr 20/20	mkr1 2.4 Mkr1 2.4 Sto	47.4M Sep 09, 2024 TRACE [1 2 3 4 5 6 TYPE [] WINN N 409 7 GHz 3.779 dBm 2340 dBm 23
Ref Offs B/div Ref 20. B/div Ref 20. Table Sector S	Tx. S         50 Ω AC         565000000 GI         et 2.9 dB         .00 dBm	Spurious N Hz PN0: Fast IFGain:Low	IVNT g 241  NSE:PULSE Trig: Free Run #Atten: 30 dB	2MHz Em	ISSION Log-Pwr 20/20	mkr1 2.4 -3 -3 	47.4M Sep 09, 2024 TRACE [1 2 3 4 5 6 TYPE [] WINN N 409 7 GHz 3.779 dBm 2340 dBm 23
It Spectrum Analyzer           RF           Iter Freq 13.2           B/div         Ref Offs           B/div         Ref 20.           Image: second secon	Tx. S Swept SA 50 Q AC 	Spurious N Hz PN0: Fast IFGain:Low	IVNT g 241  NSE:PULSE Trig: Free Run #Atten: 30 dB	2MHz Em	ISSION Log-Pwr 20/20	mkr1 2.4 -3 -3 	47.4M Sep 09, 2024 TRACE [1 2 3 4 5 6 TYPE [] WINN N 409 7 GHz 3.779 dBm 2340 dBm 23
Ref Offs B/div Ref 20. B/div Ref 20. Table Sector S	Tx. S         50 Ω AC         565000000 GI         et 2.9 dB         .00 dBm	Spurious N Hz PN0: Fast IFGain:Low	IVNT g 241  NSE:PULSE Trig: Free Run #Atten: 30 dB	2MHz Em	ISSION Log-Pwr 20/20	mkr1 2.4 -3 -3 	47.4M Sep 09, 2024 TRACE [1 2 3 4 5 6 TYPE [] WINN N 409 7 GHz 3.779 dBm 2340 dBm 23



ent Spectrum An RL RF nter Freq		00 GHz	PNO: Fast ↔	ENSE:PULSE Trig: Free #Atten: 30	Run	ALIGNAUTO Avg Type: Avg Hold: 1			7 PM Sep 09, 2024 IRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N
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Ref	kHz nalyzer - Swept.S/ ≅ 50 Ω AC 13.2650000 f0ffset 2.88 dB	000 GHz	urious N s PN0: Fast	IVNT g ENSE:PULSE J Trig: Free	2437M		SSION	p 2.933 m 12:01:2 Mkr1 2.4	s (1001 pts)
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Ref Ref Ref Ref Ref Ref Ref Ref Ref Ref	kHz 	000 GHz	PNO: Fast FGain:Low	IVNT g	2437M		Log-Pwr 0/10	p 2.933 m	s (1001 pts)
nt Spectrum An Ter Freq IB/div Re IB/div Re IB/di IB/div Re IB/div Re IB/div Re IB/div Re IB/div Re	kHz halyzer - Swept S/ 50 Ω AC 13.2650000 f Offset 2.88 dE f 20.00 dBm 1 1 1 4 6 6 6 6 6 6 6 6 6 6 6 6 6	000 GHz	PNO: Fast FGain:Low	IVNT g ENSE:PULSE → Trig: Free #Atten: 30	2437M	Augnauto Avg Type: AvgHold: 1	Log-Pwr 0/10 Swee	p 2.933 m	s (1001 pts)
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Red Red Red Red Red Red Red Red	kHz 	2.438 8 GHz	URIOUS N PNO: Fast → FGain:Low 4 4 5 5.177 2 44.28 2 55.137 2 44.28 55.137 2 44.28 2 55.137 2 44.28 2 55.838 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 5	IVNT g	2437N	Augnauto Avg Type: AvgHold: 1	Log-Pwr 0/10 Swee	p 2.933 m 12:01:2 Mkr1 2.4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	s (1001 pts)
rt 30 MHz es BW 100	kHz 	2.438 8 GHz	URIOUS N PNO: Fast → FGain:Low 4 4 5 5.177 2 44.28 2 55.137 2 44.28 55.137 2 44.28 2 55.137 2 44.28 2 55.838 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 5	IVNT g	2437N	Augnauto Avg Type: AvgHold: 1	Log-Pwr 0/10 Swee	p 2.933 m 12:01:2 Mkr1 2.4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	s (1001 pts)
Red Red B/div Re Red B/div Re Red B/div Re Red Red Red Red Red Red Red Red Red R	kHz 	2.438 8 GHz	URIOUS N PNO: Fast → FGain:Low 4 4 5 5.177 2 44.28 2 55.137 2 44.28 55.137 2 44.28 2 55.137 2 44.28 2 55.838 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 2 55.858 5	IVNT g	2437N	Augnauto Avg Type: AvgHold: 1	Log-Pwr 0/10 Swee	p 2.933 m 12:01:2 Mkr1 2.4 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	s (1001 pts)



t Spectrum Analyzer - Swej		urious NVN					
L RF 50 Ω		SENSE:PULSE		ALIGNAUTO Avg Type:	log-Pwr		)2 PM Sep 09, 2024 TRACE 1 2 3 4 5 6
ter Freq 2.40200	PNO	:Fast ↔→ Trig:Fr in:Low #Atten:		Avg Hold: 1	00/100		
Ref Offset 2.85							64 49 GHz
3/div Ref 20.00 d						-4	.721 dBm
				<b>♦</b> <sup>1</sup>			
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ter 2.46200 GHz s BW 100 kHz		#VBW 300 kl	-		0		n 30.00 MHz Is (1001 pts)
DIN TOO KILL		#1211 000 Ki	12		0	op 2.000 m	0 (1001 pto
		ous NVNT	g 2462	status MHz Em	ission		
- RF 50 Ω	pt SA AC 00000 GHz	SENSE:PULSE		MHz Em Alignauto Avg Type:	Log-Pwr		TYPE MINIMUM
- RF 50 Ω	pt SA AC 00000 GHz PN0		ee Run	MHz Em	Log-Pwr		TYPE MWWWW DET P N N N N
- RF 50 Ω ter Freq 13.2650	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	
L RF 50 Ω ter Freq 13.2650	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	12 PM Sep09, 2024 TRACE 12 23 45 6 TYPE[MWWWW DET P N N N N 168 8 GHz 522 dBm
L RF 50 Ω ter Freq 13.2650	AC AC PNO 600000 GHz PNO IFGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	
ter Freq 13.2650	AC AC PNO 600000 GHz PNO IFGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	
L RF 50 Ω ter Freq 13.2650	AC AC PNO 600000 GHz PNO IFGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	
L RF 50 Ω ter Freq 13.2650	AC AC PNO 600000 GHz PNO IFGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	
L RF 50 Ω ter Freq 13.2650	AC AC PNO 600000 GHz PNO IFGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	IRACE    2 3 4 5 6 TYPE    WWWWWW bettp NNNN 668 8 GHz .522 dBm -24.72 dBm
- RF 50 Ω ter Freq 13.2650	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	IRACE 12 3 4 5 6 TYPE MWWWW DET P NNNN 68 8 GHz .522 dBm
- RF 50 Ω ter Freq 13.2650	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	IRACE    2 3 4 5 6 TYPE    WWWWWW bettp NNNN 668 8 GHz .522 dBm -24.72 dBm
L RF 50 Ω ter Freq 13.2650	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	IRACE    2 3 4 5 6 TYPE    WWWWWW bettp NNNN 668 8 GHz .522 dBm -24.72 dBm
- RF 50 Ω ter Freq 13.2650	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	IRACE    2 3 4 5 6 TYPE    WWWWWW bettp NNNN 668 8 GHz .522 dBm -24.72 dBm
Ref Offset 2.8 3/div Ref 20.00 d	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	ee Run	MHz Em Alignauto Avg Type:	Log-Pwr	Mkr1 2.4	IRACE    2 3 4 5 4 Утер    2 3 4 5 4 Ост    2 3 4 5 6 Ост    2 3 4 5 6 Ост    2 3 4 5 7 Ост    2 3 4 5 7 Ос
Er Freq 13.26500 Ref Offset 2.8 B/div Ref 20.00 d	AC AC PNO AC PNO FGai 5 dB	SENSE:PULSE	se Run 30 dB	MHz Em Alignauto Avg Type:	Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET
EF 50 2 ter Freq 13.26500 B/div Ref 2.8 B/div Ref 20.00 d	AC   PNO BC PNO IFGai	SENSE:PULSE : Fast → Trig: Fri : Low #Atten: #Atten: #Atten: #Atten: #Atten:	ee Run 30 dB	MHz Em Alignauto Avg Type:	Log-Pwr 0/10	Mkr1 2.4 -5	IRACE    2 3 4 5 6 TYPE    WWWWWW bettp NNNN 668 8 GHz .522 dBm -24.72 dBm
EF 50 2 ter Freq 13.26500 B/div Ref 2.84 B/div Ref 20.00 d 1 1 1 1 1 1 1 1 1 1 1 1 1	AC         PNO           AC         PNO           OD000 GHz         PNO           PNO         IFGai           5 dB         IBm           0         0           0         0           2.468 8 GHz         2.468 8 GHz           2.468 8 GHz         2.4257 1 GHz	SENSE:PULSE : Fast → Trig: Fri in:Low #Atten: #Atten: #VBW 300 kl 5.522 dBm -44.433 dBm	ee Run 30 dB		Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET
Ref         50 Ω           ter Freq         13.26500           B/div         Ref Offset 2.8           B/div         Ref 20.00 d           1         1           x         1           x         100 kHz           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1           x         1	AC   PNO BC   PNO IFGai 5 dB Bm 00000 GHz PNO IFGai 5 dB 2488 8 GHz 2468 8 GHz 24257 1 GHz 5.072 5 GHz 7.524 5 GHz	SENSE:PULSE : Fast → Trig: Fr. in:Low #Atten: #Atten: #Atten: #VBW 300 kl * 5.522 dBm -44.433 dBm -55.205 dBm	ee Run 30 dB		Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET
E F 50 2 ter Freq 13.26500 Ref Offset 2.8 B/div Ref 20.00 d 1 1 1 1 1 1 1 1 1 1 1 1 1	Pt SA AC   PN0 PN0 IFGai 5 dB Bm 4 4 2468 8 GHz 2425 T 1 GHz 5 072 5 GHz	SENSE:PULSE : Fast → Trig: Fr. in:Low #Atten:	ee Run 30 dB		Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET
L RF 50 2 ter Freq 13.26500 B/div Ref 20.00 d 1 1 1 1 1 1 1 1 1 1 1 1 1	AC   PNO BC   PNO IFGai 5 dB Bm 00000 GHz PNO IFGai 5 dB 2488 8 GHz 2468 8 GHz 24257 1 GHz 5.072 5 GHz 7.524 5 GHz	SENSE:PULSE : Fast → Trig: Fr. in:Low #Atten: #Atten: #Atten: #VBW 300 kl * 5.522 dBm -44.433 dBm -55.205 dBm	ee Run 30 dB		Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET
L RF 50 2 ter Freq 13.26500 B/div Ref 20.00 d 1 1 1 1 1 1 1 1 1 1 1 1 1	AC   PNO BC   PNO IFGai 5 dB Bm 00000 GHz PNO IFGai 5 dB 2488 8 GHz 2468 8 GHz 24257 1 GHz 5.072 5 GHz 7.524 5 GHz	SENSE:PULSE : Fast → Trig: Fr. in:Low #Atten: #Atten: #Atten: #VBW 300 kl * 5.522 dBm -44.433 dBm -55.205 dBm	ee Run 30 dB		Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET
Ref         50 Ω           ter Freq         13.26500           B/div         Ref Offset 2.8           B/div         Ref 20.00 d           1         1           5         BW 100 KHz           1002         FC           N         1           N         1           N         1           N         1           N         1           N         1           N         1           1         f           N         1	AC   PNO BC   PNO IFGai 5 dB Bm 00000 GHz PNO IFGai 5 dB 2488 8 GHz 2468 8 GHz 24257 1 GHz 5.072 5 GHz 7.524 5 GHz	SENSE:PULSE : Fast → Trig: Fr. in:Low #Atten: #Atten: #Atten: #VBW 300 kl * 5.522 dBm -44.433 dBm -55.205 dBm	ee Run 30 dB		Log-Pwr 0/10	Mkr1 2.4 -5	IFACE    2 3 4 5 4 TYPE    4 4 4 5 4 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 6 DET    2 3 4 5 7 DET    3 5 7 DET



n <mark>t Spectrum Analyzer</mark> - L RF 50	Swept SA	SENSE:PULSE	T n20 2412MHz	01:43:46 PM Sep 09, 2024
L RF 50 nter Freq 2.412		PNO: Fast +++ Trig: F	ALIGNAUTO Avg Type: L ree Run Avg Hold: 10 : 30 dB	.og-Pwr TRACE 1 2 3 4 5 6
Ref Offset B/div Ref 20.00				Mkr1 2.411 64 GHz -3.694 dBm
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ter 2.41200 GHz s BW 100 kHz	1	#VBW 300		Span 30.00 MHz
		#VDVV J001	(HZ	Sweep 2.933 ms (1001 pts)
		#VDVV J001	(HZ STATUS	Sweep 2.933 ms (1001 pts)
	Tx. Spu		STATUS	
nt Spectrum Analyzer -	Swept SA	rious NVNT r	status 120 2412MHz Em	nission
	Swept SA D Q AC   5000000 GHz		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep 09, 2024 .og-Pwr TRACE   2 3 4 5 .02 TYPE   1 2 3 4 5
L RF 50 nter Freq 13.26	Swept SA D & AC   50000000 GHz		STATUS 20 2412MHz Em Alignauto Avg Type: 1	01:44:44PM Sep 09, 2024 .og-Pwr 120 TRACE [] 2 3 4 5 6 123 4 5 6 Tree [M WANNIN DET   P N N N N Mkr1 2.415 8 GHz
L RF 50 nter Freq 13.26 Ref Offset B/div Ref 20.0	Swept SA 3 Ω AC 5000000 GHz 2.9 dB		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep 09, 2024 •og-Pwr TRACE [23456 120 TYPE [M WANNAW DET  P N N N N
Ref Offset B/div Ref 20.0	Swept SA 3 Ω AC 5000000 GHz 2.9 dB		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep 09, 2024 .og-Pwr 120 TRACE [] 2 3 4 5 6 123 4 5 6 Tree [M WANNIN DET   P N N N N Mkr1 2.415 8 GHz
L RF St tter Freq 13.26 Ref Offset B/div Ref 20.0	Swept SA 3 Ω AC 5000000 GHz 2.9 dB		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep09, 2024 •og-Pwr 12 3 4 5 6 TYRE 12 3 4 5 6 TYRE MWWHWW DET P NNNN Mkr1 2.415 8 GHz -3.469 dBm
Ref Offset	Swept SA 3 Ω AC 5000000 GHz 2.9 dB		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep09, 2024 .0g-Pwr X20  Mkr1 2.415 8 GHz -3.469 dBm
L RF Sd tter Freq 13.26 B/div Ref 20.0 1	Swept SA 3 Ω AC 5000000 GHz 2.9 dB		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep09, 2024 •og-Pwr 12 3 4 5 6 TYRE 12 3 4 5 6 TYRE MWWHWW DET P NNNN Mkr1 2.415 8 GHz -3.469 dBm
L RF St tter Freq 13.26 B/div Ref 20.0	Swept SA 3 Ω AC 5000000 GHz 2.9 dB		STATUS 120 2412MHz Em ALIGNAUTO Avg Type: I Avg Type: I AvgHold: 21	01:44:44PM Sep09, 2024 .0g-Pwr X20  Mkr1 2.415 8 GHz -3.469 dBm
L RF Sd tter Freq 13.26 B/div Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA 3 Ω AC 5000000 GHz 2.9 dB	rious NVNT r	ALIGNAUTO AVIG Type: I AvigHold: 20 AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO	01:44:44PM Sep 09, 2024 • g-Pwr
L RF SC	Swept SA 2 2 AC 5000000 GHz 2.9 dB 0 dBm 4 4 4 4 4 4 4 4	rious NVNT r	ALIGNAUTO AVIG Type: I AvigHold: 20 AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO AVIGHAUTO	01:44:44PM Sep09, 2024
L RF S2 tter Freq 13.26 B/div Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept 5A 22 AC 5000000 GHz 2.9 dB 0 dBm 4 2.415 8 GH 25.621 2 GH 4.941 9 GH	rious NVNT r	STATUS	DI:44:44PM Sep 09, 2024 .og-Pwr 12 3 4 5 6 TYRE 12 3 4 5 6 TYRE MWWWWW Mkr1 2.415 8 GHz -3.469 dBm -2369 dBm -236
L RF 50 tter Freq 13.26 B/div Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept SA 20 AC 5000000 GHz 2.9 dB 0 dBm 4 2.9 dB 0 dBm 2.415 8 GH 2.415 8 GH 2.5621 2 GH	rious NVNT r SENSE:PULSE PNO: Fast → Trig: F IFGain:Low → #Atter #Atter #Atter #Atter	STATUS	DI:44:44PM Sep 09, 2024 .og-Pwr 12 3 4 5 6 TYRE 12 3 4 5 6 TYRE MWWWWW Mkr1 2.415 8 GHz -3.469 dBm -2369 dBm -236
L RF 53 tter Freq 13.26 Ref Offset B/div Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept 5A 20 AC 5000000 GHz 2.9 dB 0 dBm 4 4 4 2.415 8 GH 2.5.621 2 GH 4.941 9 GH 7.067 5 GH	rious NVNT r SENSE:PULSE PNO: Fast → Trig: F IFGain:Low → #Atter #Atter #Atter #Atter	STATUS	DI:44:44PM Sep 09, 2024 .og-Pwr 12 3 4 5 6 TYRE 12 3 4 5 6 TYRE MWWWWW Mkr1 2.415 8 GHz -3.469 dBm -2369 dBm -236
L RF 53 tter Freq 13.26 Ref Offset B/div Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1	Swept 5A 20 AC 5000000 GHz 2.9 dB 0 dBm 4 4 4 2.415 8 GH 2.5.621 2 GH 4.941 9 GH 7.067 5 GH	rious NVNT r SENSE:PULSE PNO: Fast → Trig: F IFGain:Low → #Atter #Atter #Atter #Atter	STATUS	DI:44:44PM Sep 09, 2024 .og-Pwr 12 3 4 5 6 TYRE 12 3 4 5 6 TYRE MWWWWW Mkr1 2.415 8 GHz -3.469 dBm -2369 dBm -236



ent Spectrum Analyzer -		Spurious NVN		
	50 Ω AC	PNO: Fast ↔ Trig: Fr IFGain:Low #Atten:	ALIGNAUTO Avg Type: Lo ee Run Avg Hold: 100 30 dB	01:46:44 PM Sep 09, 2024 g-Pwr TRACE 1 2 3 4 5 1 /100 TYPE M WWWWW DET P N N N N
Ref Offse		n Jam.Low whiteh		Mkr1 2.431 60 GHz -4.400 dBm
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	J. Marine and			Mar Mar I
MITHMAN				MARANNAL
MAAMA				
nter 2.43700 GH es BW 100 kHz	Z			Span 30.00 MHz
- 211 .00 1112		#VBW 300 ki	Hz	
- 211 100 MIL			STATUS	Sweep 2.933 ms (1001 pts
				Sweep 2.933 ms (1001 pts
nt Spectrum Analyzer - L RF S	- Swept SA 50 Ω AC		status 20 2437MHz Emi alignauto	Sweep 2.933 ms (1001 pts SSION
nt Spectrum Analyzer - L RF S	- Swept SA 50 Ω AC		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep         2.933 ms (1001 pts           SSION         01:47:42PM Sep 09,2024           g-Pwr         TRACE 12 3.45           TYPEIN Wardson         TYPEIN Wardson
nt Spectrum Analyzer LL RF S nter Freq 13.20 Ref Offse	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep         2.933 ms (1001 pts           SSION         01:47:42PM Sep 09,2024           g-Pwr         TRACE 112.3.45           TARCE 12.3.45         TYPE MWANSW           DET P NNNN         DET P NNNN           Mkr1 2.440 5 GHz         CH2
nt Spectrum Analyzer L RF 1 nter Freq 13.20 Ref Offse IB/div Ref 20.0	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09, 2024 g-Pwr TRACE 1 2 3 4 5
nt Spectrum Analyzer IL RF 1 Iter Freq 13.20 Ref Offse IB/div Ref 20.0	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep         2.933 ms (1001 pts           SSION         01:47:42PM Sep 09,2024           g-Pwr         TRACE 112.3.45           TARCE 12.3.45         TYPE MWANSW           DET P NNNN         DET P NNNN           Mkr1 2.440 5 GHz         CH2
nt Spectrum Analyzer	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep 2.933 ms (1001 pts           SSiON         01:47:42PM Sep 09,2024           g-Pwr         TRACE 12.3.4 5.           0         TYPE Myrow Der P.NNNN           Mkr1 2.440 5 GH2         -4.761 dBm
Ref Offse	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep         2.933 ms (1001 pts           SSION         01:47:42PM Sep 09,2024           g-Pwr         TRACE 112.3.45           TARCE 12.3.45         TYPE MWANSW           DET P NNNN         DET P NNNN           Mkr1 2.440 5 GHz         CH2
nt Spectrum Analyzer	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep 2.933 ms (1001 pts           SSiON         01:47:42PM Sep 09,2024           g-Pwr         TRACE 12.3.4 5.           0         TYPE Myrow Der P.NNNN           Mkr1 2.440 5 GH2         -4.761 dBm
nt Spectrum Analyzer	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep 2.933 ms (1001 pts           SSiON         01:47:42PM Sep 09,2024           g-Pwr         TRACE 12.3.4 5.           0         TYPE Myrow Der P.NNNN           Mkr1 2.440 5 GH2         -4.761 dBm
nt Spectrum Analyzer	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB		STATUS 20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo AvgJHold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5. TYPE MWAND DET P NN N1 Mkr1 2.440 5 GHz -4.761 dBm -24.40 dBm
nt Spectrum Analyzer nter Freq 13.20 Ref Offse B/div Ref 20.0 1 1 1 1 1 1 1 1 1 1 1 1 1	- Swept SA 50 Ω AC 5 65000000 GHz at 2.88 dB	JITIOUS NVNT N.	20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo Avg Type: Lo Avg Hold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5 0 0 0 0 0 0 0 0 0 0 0 0 0
nt Spectrum Analyzer	Swept SA 50 Q AC   65000000 GHz it 2.88 dB 00 dBm	JITIOUS NVNT N	20 2437MHz Emi ALIGNAUTO Avg Hold: 20/2 Avg Hold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.45 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.45 01:47:42PM Sep 09,2024 02:23.45 02:24.40 dBm -24.40 dBm -
nt Spectrum Analyzer	Swept SA 50 9. AC 65000000 GHz ht 2.88 dB 00 dBm 2.440 5 Gi 2.440 5 Gi 2.440 5 Gi 4.985 2 Gi	JITIOUS NVNT N SENSE:PULSE PNO: Fast → Trig: Fr IFGain:Low #Atten: 4 5 #VBW 300 kl Hz 4.761 dBm Hz 4.3820 dBm Hz 4.3820 dBm	20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo Avg Type: Lo Avg Hold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5 0 0 0 0 0 0 0 0 0 0 0 0 0
nt Spectrum Analyzer Rter Freq 13.26 Ref Offse. B/div Ref 20.6 18/div Ref 20.6 19/01/10/10/10/10/10/10/10/10/10/10/10/10/	Swept SA 50 Q AC   55000000 GHz at 2.88 dB 00 dBm 2.440 5 Gi 2.440 5 Gi 2.440 5 Gi	JITIOUS NVNT N	20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo Avg Type: Lo Avg Hold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5 0 0 0 0 0 0 0 0 0 0 0 0 0
nt Spectrum Analyzer nter Freq 13.26 Ref Offse IB/div Ref 20.0 IB/div	Swept SA 50 Q AC   55000000 GHz at 2.88 dB 00 dBm 2.440 5 G 2.440 5 G 2.449 5 G 4.995 2 G 4.995 2 G 7.115 1 G	JITIOUS NVNT N	20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo Avg Type: Lo Avg Hold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5 0 0 0 0 0 0 0 0 0 0 0 0 0
nt Spectrum Analyzer iter Freq 13.26 Ref Offse IB/div Ref 20.0 IB/div	Swept SA 50 Q AC   55000000 GHz at 2.88 dB 00 dBm 2.440 5 G 2.440 5 G 2.449 5 G 4.995 2 G 4.995 2 G 7.115 1 G	JITIOUS NVNT N	20 2437MHz Emi ALIGNAUTO Avg Type: Lo Avg Type: Lo Avg Type: Lo Avg Hold: 20/2	Sweep 2.933 ms (1001 pts SSION 01:47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5 or Tryce Mixed DI-47:42PM Sep 09,2024 g-Pwr TRACE 12.3.4 5 Tryce Mixed DI-47:42PM Sep 09,2024 TRACE 12.3.4 5 TRACE 12.5.5 5 TRACE 12.5



nt Spectrum Analyzer		Spurious I		52402101112			
	50 Ω AC	PNO: Fast	SE:PULSE Trig: Free Run #Atten: 30 dB	ALIGNAUTO Avg Type: Avg Hold: 1	Log-Pwr 100/100	01:49:5 T	1 PM Sep 09, 2024 RACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N
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nter Freq 13.2	- Swept SA 50 Ω AC   265000000 GH:		NT n20 2	462MHz En	NISSION	01:50:4 T	9PM Sep 09, 2024 RACE 12 3 4 5 6 TYPE MYMMMM DET P N N N N N
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nt Spectrum Analyzer	- Swept SA	Spurio	ous NV	NT n40 2	2422MHz E			/
	- Swept SA 50 Ω AC	GHz	DUS NV	NT n40 2 ISE:PULSE Trig: Free Rur	2422MHz E alignauto Avg Typ	mission	01:54:	0PM Sep 09, 2024 IRACE 1 2 3 4 5 6
L RF	- Swept SA 50 Ω AC	GHz	ous NV	'NT n40 :	2422MHz E alignauto Avg Typ	mission	01:54:	0 PM Sep 09, 2024 IRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N
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ent Spectrum Analyzer - RL RF 5 Inter Freq 2.437	50 Ω AC	PNO: Fast	ENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 200/200	• TR/ T	M Sep 09, 2024 CE 1 2 3 4 5 6 (PE M W N N N N DET P N N N N N
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es BW 100 kHz ent Spectrum Analyzer - RL RF 5	<b>Τχ. Spi</b> Swept SA	urious N\	/NT n40 24	STATUS 37MHz Emissi Alignauto Avg Type: Log-Pwr	weep 5.800 ms ON 01:57:267	(1001 pts) M Sep 09, 2024 CE 1 2 3 4 5 6
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es BW 100 kHz	Тх. Spi Swept SA 55000000 GHz t2.88 dB	Urious N\ SI Z PN0: Fast IFGain:Low	/NT n40 24	STATUS 37MHz Emissi Alignauto Avg Type: Log-Pwr	weep 5.800 ms ON 01:57:266 ™ ™ Mkr1 2.44	(1001 pts) м Sep 09, 2024 се 12 3 4 5 6 ге Милики ет Р N N N N 7 6 GHz 17 dBm
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ent Spectrum Analyze RL RF nter Freq 2.4	50 Ω AC 52000000 GHz	PNO: Fast	NSE:PULSE Trig: Free Run #Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 200/200		22 PM Sep 09, 2024 IRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N
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nt Spectrum Analyze	<b>Τχ. Spi</b> er - Swept SA	urious NV	′NT n40 24	status 52MHz Emissi alignauto	weep 5.800 m ON 02:00:3	8 PM Sep 09, 2024 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N
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nt Spectrum Analyze RF nter Freq 13 BB/div Ref 20	2 Tx. Spι sr - Swept SA 50 Ω AC 265000000 GHz set 2.85 dB	urious NV	'NT n40 24 NSE:PULSE	STATUS 52MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 5.800 m ON 02:00:5 Mkr1 2.4	s (1001 pts)
nt Spectrum Analyze Rt RF nter Freq 13.: IB/div Ref Offs	2 Tx. Spι sr - Swept SA 50 Ω AC 265000000 GHz set 2.85 dB	urious NV	'NT n40 24 NSE:PULSE	STATUS 52MHz Emissi ALIGNAUTO Avg Type: Log-Pwr	weep 5.800 m ON 02:00:5 Mkr1 2.4	s (1001 pts)
nt Spectrum Analyze RF nter Freq 13 B/div Ref Offs Ref	2 Tx. Spu r- Swept SA 2655000000 GHz 2655000000 GHz set 2.85 dB 0.00 dBm	PRO: Fast FGain:Low	/NT n40 24	STATUS 52MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/5	weep 5.800 m ON 02:00:3 Mkr1 2.4 -8	s (1001 pts)
nt Spectrum Analyze nter Freq 13.: Ref Offa Ref Offa Ref 20 1	2 Tx. Spu r- Swept SA 2655000000 GHz 2655000000 GHz set 2.85 dB 0.00 dBm	PRO: Fast FGain:Low	VNT n40 24 NSE:PULSE Trig: Free Run #Atten: 30 dB	STATUS 52MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/5	weep 5.800 m ON 02:00:3 Mkr1 2.4 -8 	s (1001 pts)
nt Spectrum Analyze RE RF nter Freq 13 BB/div Ref 20	2 Tx. Spu r- Swept SA 2655000000 GHz 2655000000 GHz set 2.85 dB 0.00 dBm	PN0: Fast IFGain:Low #VB	VNT n40 24  NSE:PULSE  Trig: Free Run #Atten: 30 dB  W 300 kHz  Bm dBm dBm dBm dBm dBm	STATUS 52MHz Emissi ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 5/5	weep 5.800 m ON 02:00:3 Mkr1 2.4 -8	s (1001 pts)



## APPENDIX 2-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\* \* \* \* \* END OF THE REPORT \* \* \* \* \*









