

TEST REPORT



Report No.: TW2203156-03E

File reference No.: 2022-04-14

Applicant: Yuhong Electronics (Shenzhen) Co., LTD

Product: AIOJET

Model No.: AIOJet G1P

Trademark: SHO-U

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: April 14, 2022

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with “Quality Law of People’s Republic of China” Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAL-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAL/AC01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## 1.0 General Details

### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site Listed with Federal Communications commission (FCC)  
Registration Number:744189  
For 3m Anechoic Chamber  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Yuhong Electronics (Shenzhen) Co., LTD  
Address: 407, Floor 4, Building D, Youth Pioneer Park, East Jianshe Road, Qinghua Community, Longhua Street, Longhua District, Shenzhen  
Telephone: 0755-86704703  
Fax: --

### 1.3 Description of EUT

Product: AIOJET  
Manufacturer: Yuhong Electronics (Shenzhen) Co., LTD  
Address: 407, Floor 4, Building D, Youth Pioneer Park, East Jianshe Road, Qinghua Community, Longhua Street, Longhua District, Shenzhen  
Trademark: SHO-U  
Model Number: AIOJet G1P  
Additional Model Number: N/A  
Hardware Version: V1.0  
Software Version: 2023.41.815.2016  
Serial No.: SPWi72206T5U00001  
Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)  
IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)  
Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz;  
IEEE 802.11n HT40: 2422-2452MHz  
Channel Spacing 5MHz for IEEE 802.11b/g/n (HT20, HT40)  
Air Data Rate IEEE 802.11b: 11, 5.5, 2, 1 Mbps  
IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps

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IEEE 802.11n HT20/HT40: mcs0-mcs7  
Frequency Selection By software  
Channel Number IEEE 802.11b/g/n (HT20): 11 Channels;  
IEEE 802.11n (HT40): 7 Channels;  
Antenna: Two male IPEX connector with PCB antennas. The gain of the antennas is 2.0dBi maximum for each one (Get from the antenna specification provided the applicant)  
Rating: Input: 100-240~, 60/50Hz, 2.0A; Output: 19.0V, 7.9A, 150.1W

1.4 Submitted Sample: 2 Samples

1.5 Test Duration  
2022-03-09 to 2022-04-14

1.6 Test Uncertainty  
Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions below 1GHz Uncertainty =4.7dB  
Radiated Emissions above 1GHz Uncertainty =6.0dB  
Conducted Power Uncertainty =6.0dB  
Occupied Channel Bandwidth Uncertainty =5%  
Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer  
The sample tested by Andy Xing  
Print Name: Terry Tang



<b>2.0 Test Equipment</b>					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	CON21060660	2021-07-02	2024-07-02
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-02
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-02
9*6*6 Anechoic	--	--	N/A	2021-07-02	2022-07-15
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-14	2023-01-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2021-06-18	2022-06-17
RF Cable	Zhengdi	7m	--	2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

## 2.2 Automation Test Software

### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

### For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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### 3. DESCRIPTION OF TEST MODES

#### IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: mcs0 (worst case) were chosen for full testing

#### IEEE 802.11n (HT40) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: mcs0 data rate (worst case) were chosen for full testing

Note: 1. During the test, the duty cycle was set up to >98%

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### 3.0 Technical Details

#### 3.1 Summary of test results

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit</b>	<b>Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth &gt; 500kHz</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(b)</b>	<b>Maximum peak output power Limit: max. 30dBm</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.109, 15.205 &amp; 15.209</b>	<b>Transmitter Radiated Emission Limit: Table 15.209</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(e)</b>	<b>Power Spectral Density Limit: max. 8dBm</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.247(d)</b>	<b>Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209</b>	<b>Pass</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart & Subpart C, Paragraph 15.247**

#### 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.**

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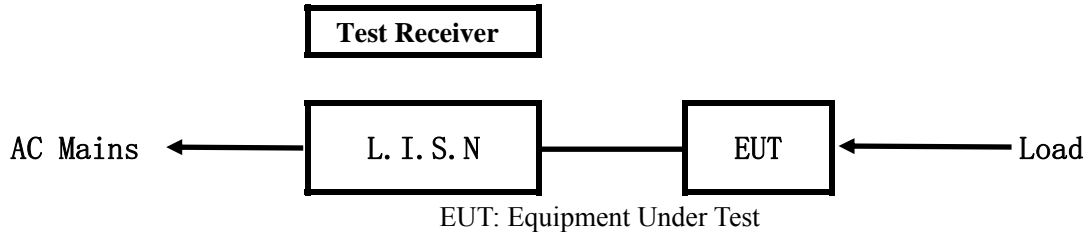
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**5.0 Power Line Conducted Emission Test**

5.1 Schematics of the test

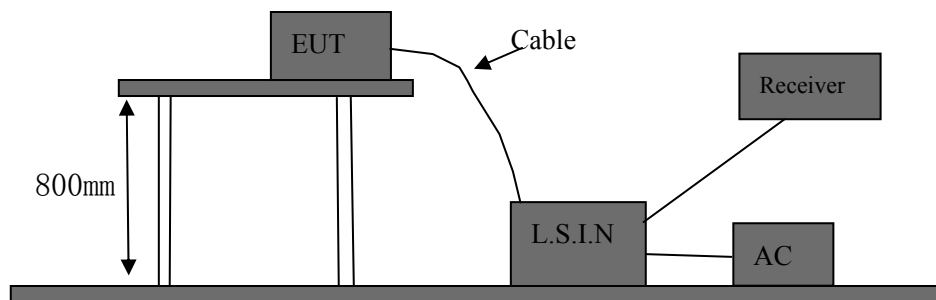


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
AIOJET	Yuhong Electronics (Shenzhen) Co., LTD	AIOJet G1P	2A3BL-AIOJETG1P

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Mouse	Dell	B100	DOC	--

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. \*Decreasing linearly with logarithm of frequency.
  2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

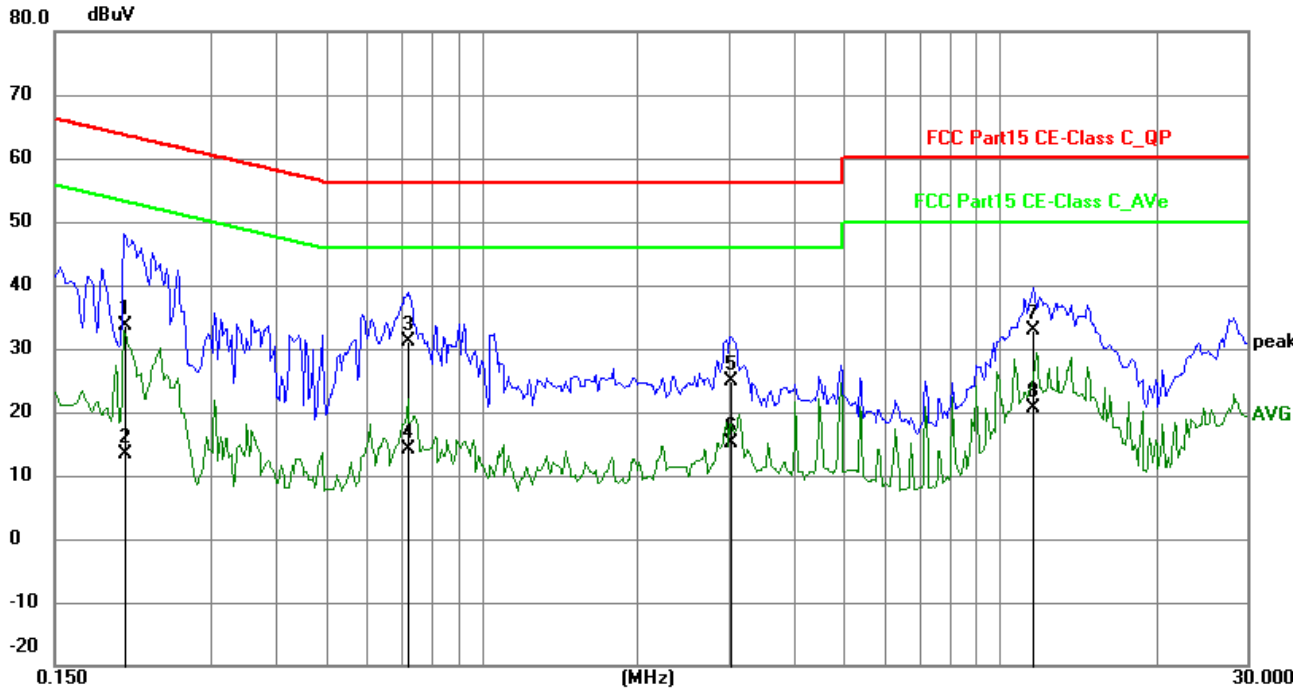
**EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep WIFI Transmitting**

**Results: PASS**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2046	23.98	9.75	33.73	63.42	-29.69	QP	P
2	0.2046	3.66	9.75	13.41	53.42	-40.01	AVG	P
3	0.7233	21.43	9.78	31.21	56.00	-24.79	QP	P
4	0.7233	4.42	9.78	14.20	46.00	-31.80	AVG	P
5	3.0195	15.06	9.84	24.90	56.00	-31.10	QP	P
6	3.0195	5.39	9.84	15.23	46.00	-30.77	AVG	P
7	11.6151	22.58	10.23	32.81	60.00	-27.19	QP	P
8	11.6151	10.39	10.23	20.62	50.00	-29.38	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

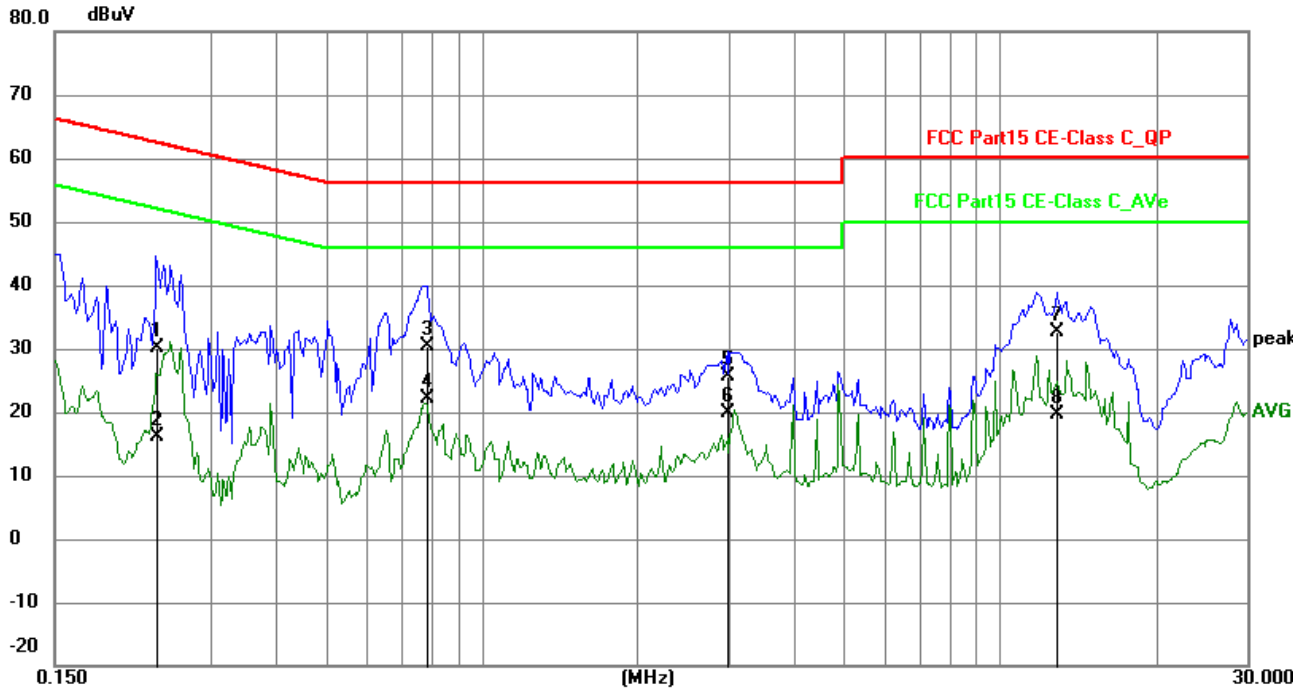
**EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Keep WIFI Transmitting**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2358	20.45	9.75	30.20	62.24	-32.04	QP	P
2	0.2358	6.31	9.75	16.06	52.24	-36.18	AVG	P
3	0.7857	20.64	9.78	30.42	56.00	-25.58	QP	P
4	0.7857	12.46	9.78	22.24	46.00	-23.76	AVG	P
5	2.9814	15.87	9.84	25.71	56.00	-30.29	QP	P
6	2.9814	10.03	9.84	19.87	46.00	-26.13	AVG	P
7	12.8709	22.35	10.29	32.64	60.00	-27.36	QP	P
8	12.8709	9.38	10.29	19.67	50.00	-30.33	AVG	P

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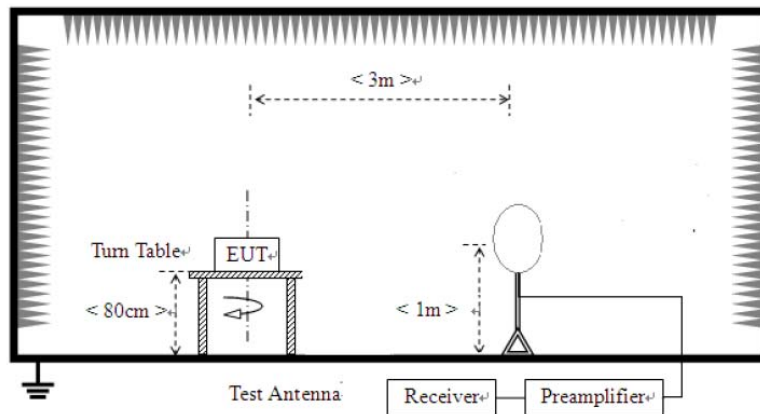
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

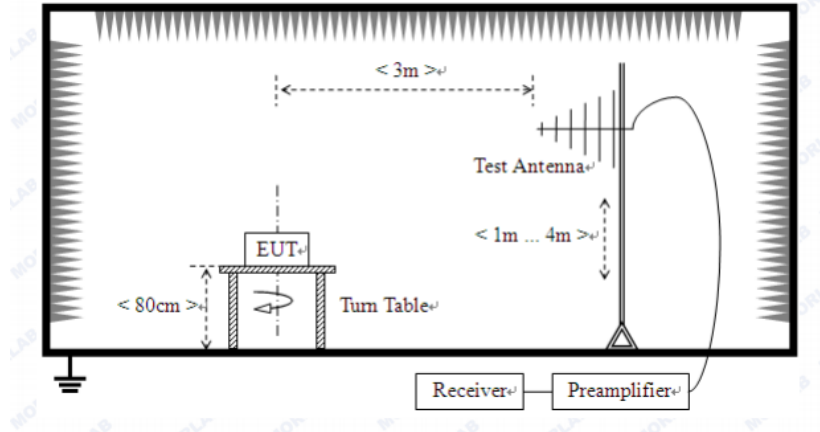


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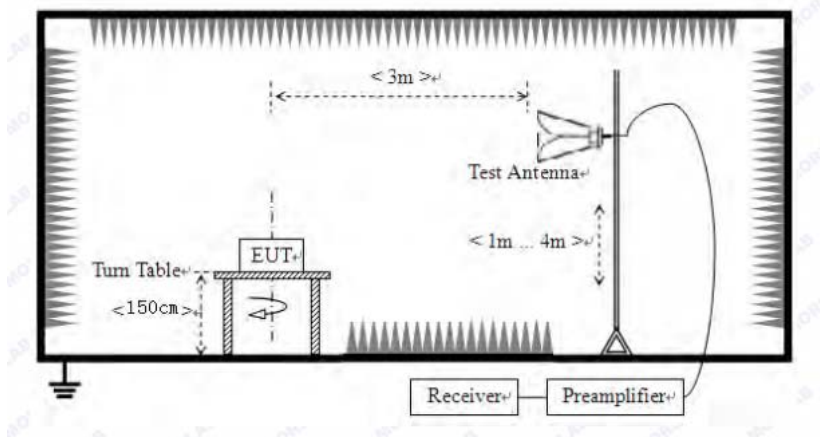
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of The EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

## 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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**Frequencies in restricted band are complied to limit on Paragraph 15.209**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
1.705-30	3	69.5
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the higher limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  4. **Worse case were recorded in the test report. 802.11n HT20 MIMO was the worst case.**

**Note: Only the worst case recorded in the test report**

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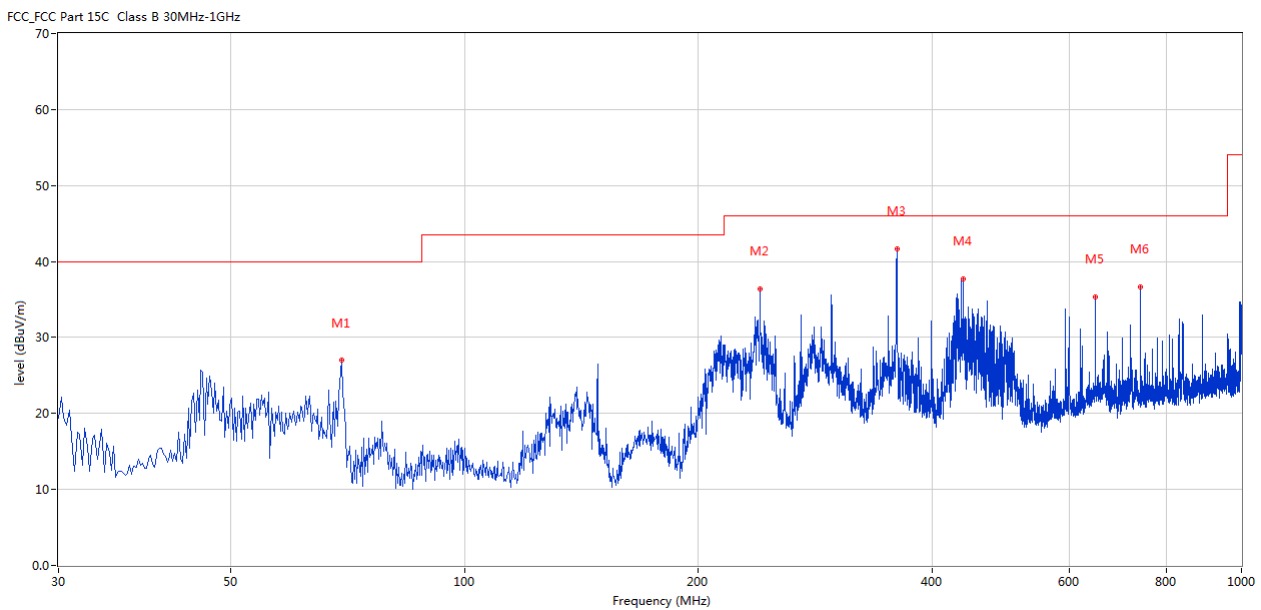
**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: **Keep Transmitting**

**Results: Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	69.518	26.96	-15.48	40.0	-13.04	Peak	219.00	108	Horizontal	Pass
2	239.953	36.44	-12.33	46.0	-9.56	Peak	333.00	108	Horizontal	Pass
3	359.960	41.68	-9.46	46.0	-4.32	Peak	246.00	108	Horizontal	Pass
4	438.025	37.77	-8.02	46.0	-8.23	Peak	267.00	108	Horizontal	Pass
5	647.978	35.31	-4.59	46.0	-10.69	Peak	336.00	108	Horizontal	Pass
6	741.802	36.60	-3.43	46.0	-9.40	Peak	324.00	108	Horizontal	Pass

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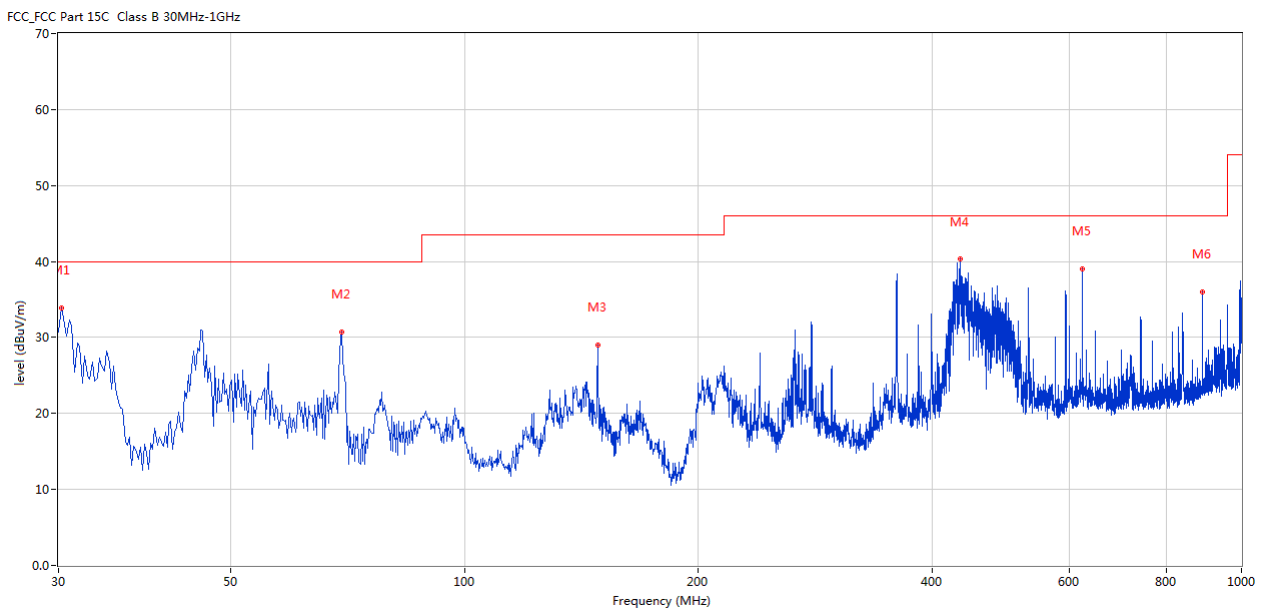
**Test result**

**General Radiated Emission Data and Harmonics Radiated Emission Data**

**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: **Keep Transmitting**

**Results: Pass**



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.000	30.67	-14.19	40.0	-9.33	Peak	95.00	100	Vertical	Pass
2	69.518	30.73	-15.48	40.0	-9.27	Peak	244.00	100	Vertical	Pass
3	148.310	28.99	-17.16	43.5	-14.51	Peak	192.00	100	Vertical	Pass
4	435.116	40.28	-8.01	46.0	-5.72	Peak	183.00	100	Vertical	Pass
5	623.977	39.07	-4.89	46.0	-6.93	Peak	360.00	100	Vertical	Pass
6	890.175	35.94	-1.89	46.0	-10.06	Peak	50.00	100	Vertical	Pass

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**Operation Mode: Transmitting under CH01 for 802.11n HT20 MIMO mode**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4824.00	58.23 (PK) / 45.95 (AV)	H	74(Peak)/ 54(AV)
4824.00	63.61 (PK) / 50.06 (AV)	V	74(Peak)/ 54(AV)
7236.00	--	H/V	74(Peak)/ 54(AV)
9648.00	--	H/V	74(Peak)/ 54(AV)
12060	--	H/V	74(Peak)/ 54(AV)
14472	--	H/V	74( eak)/ 54(AV)
16884	--	H/V	74(Peak)/ 54(AV)
19296	--	H/V	74(Peak)/ 54(AV)
21708	--	H/V	74(Peak)/ 54(AV)
24120	--	H/V	74(Peak)/ 54(AV)

**Operation Mode: Transmitting under CH06 for 802.11n HT20 MIMO mode**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
4874.00	57.39 (PK) / 44.85 (AV)	H	74(Peak)/ 54(AV)
4874.00	62.57 (PK) / 49.03 (AV)	V	74(Peak)/ 54(AV)
7311.00	--	H/V	74(Peak)/ 54(AV)
9748.00	--	H/V	74(Peak)/ 54(AV)
12185	--	H/V	74(Peak)/ 54(AV)
14622	--	H/V	74(Peak)/ 54(AV)
17059	--	H/V	74(Peak)/ 54(AV)
19496	--	H/V	74(Peak)/ 54(AV)
21933	--	H/V	74(Peak)/ 54(AV)
24370	--	H/V	74(Peak)/ 54(AV)

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**Operation Mode: Transmitting under CH11 for 802.11n HT20 MIMO mode**

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ /m)
4924	56.18 (PK) / 43.75 (AV)	H	74(Peak)/ 54(AV)
4924	63.72 (PK) / 50.33 (AV)	V	74(Peak)/ 54(AV)
7368	--	H/V	74(Peak)/ 54(AV)
9848	--	H/V	74(Peak)/ 54(AV)
12310	--	H/V	74(Peak)/ 54(AV)
14772	--	H/V	74(Peak)/ 54(AV)
17234	--	H/V	74(Peak)/ 54(AV)
196 6	--	H/V	74(Peak)/ 54(AV)
22158	--	H/V	74(Peak)/ 54(AV)
24620	--	H/V	74(Peak)/ 54(AV)

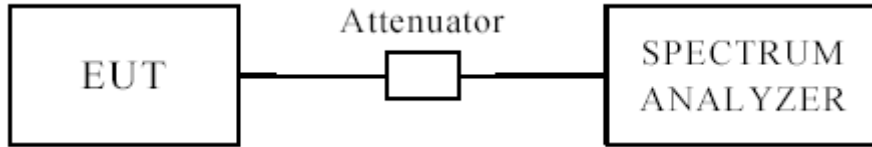
- Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit  
 2. Remark “---” means that the emissions level is too low to be measured  
 3. For 802.11n HT20 MIMO mode at mcs0  
 4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.  
 5. Note: the final peak measurement results less than the AV limit. No necessary to take down the final AV measurement result

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## 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

### 7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.4 Test Result

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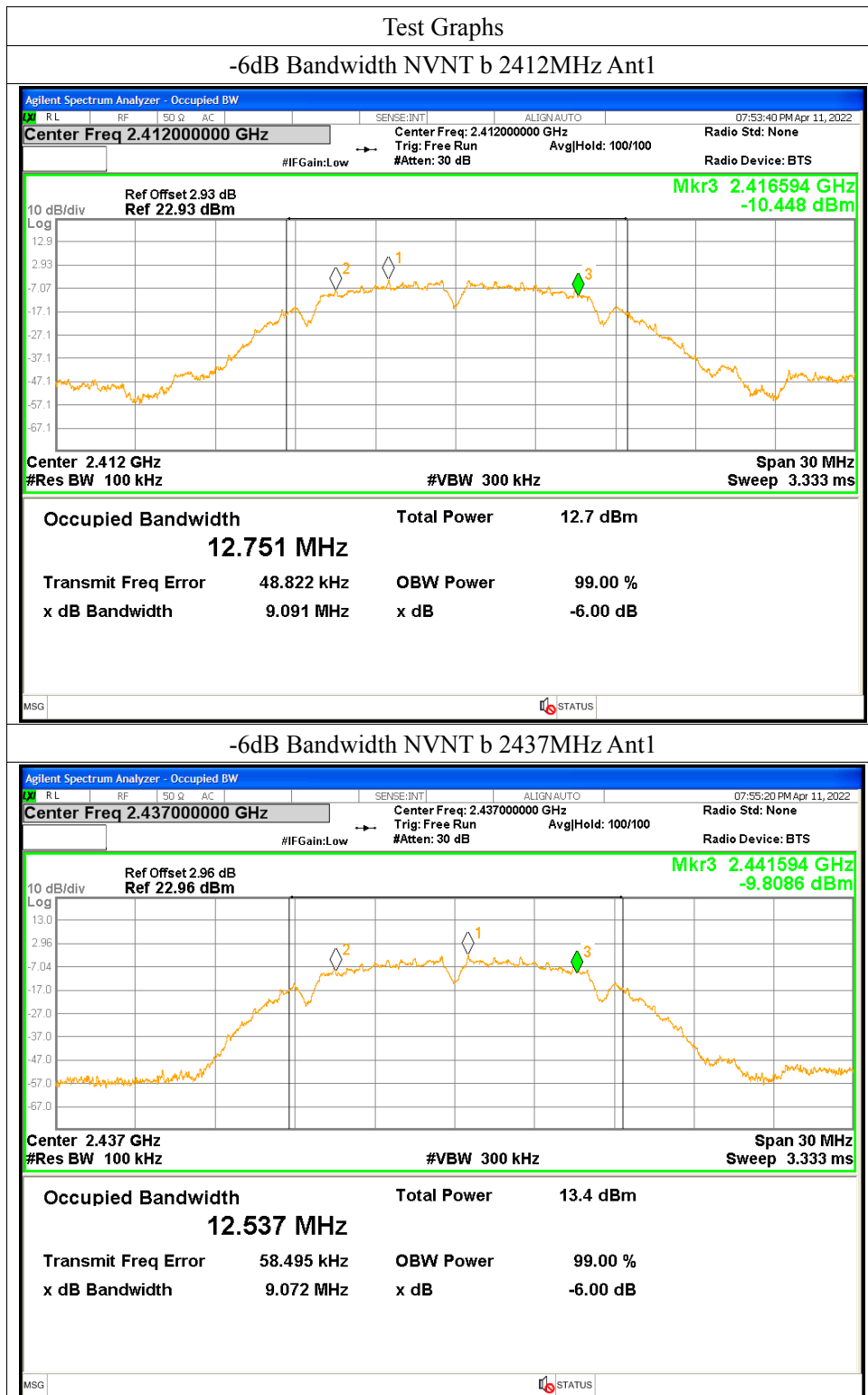
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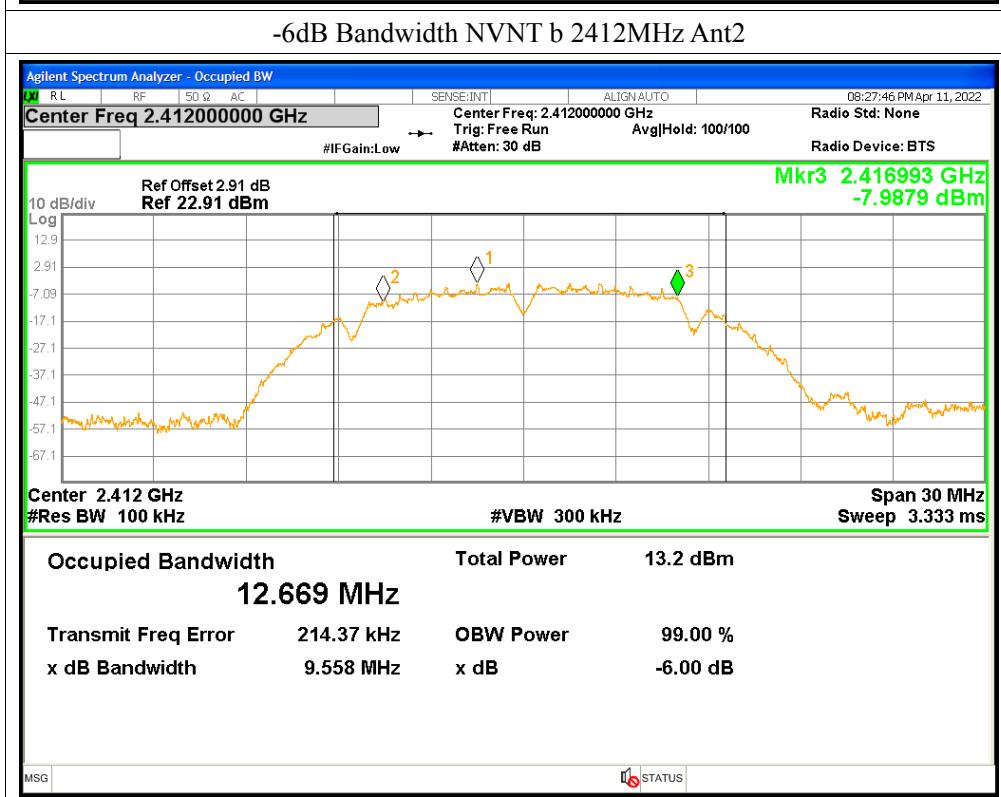
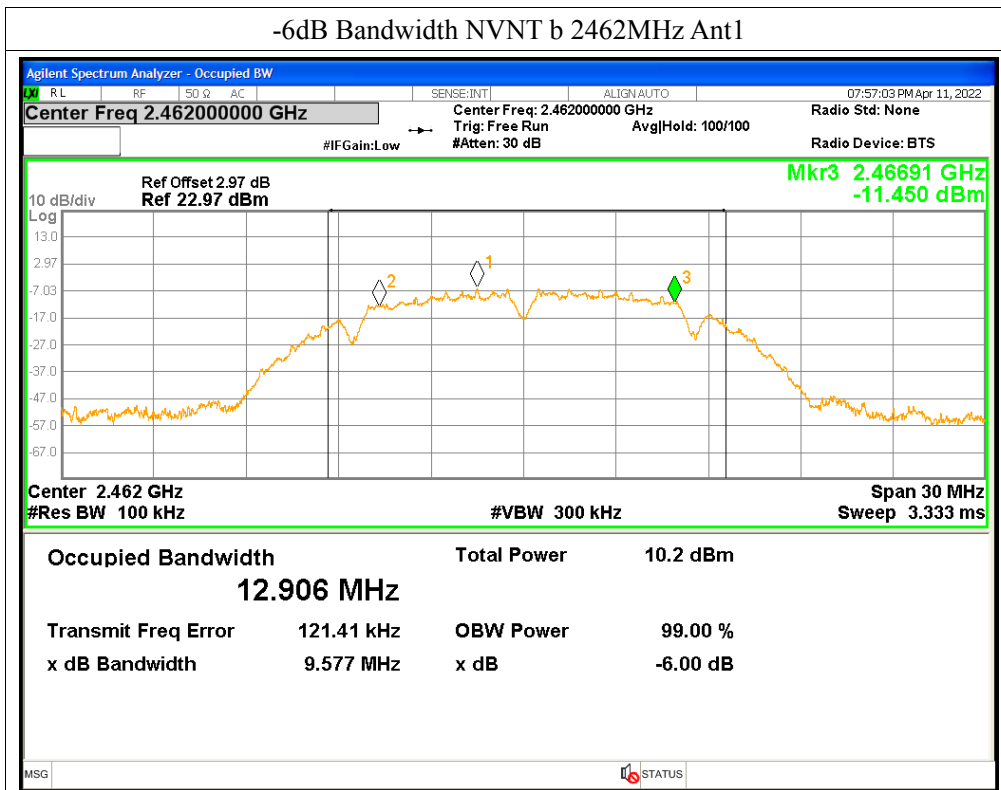
**6dB Occupied Bandwidth**

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.091	0.5	Pass
b	2437	Ant1	9.072	0.5	Pass
b	2462	Ant1	9.577	0.5	Pass
b	2412	Ant2	9.558	0.5	Pass
b	2437	Ant2	9.116	0.5	Pass
b	2462	Ant2	9.122	0.5	Pass
g	2412	Ant1	11.684	0.5	Pass
g	2437	Ant1	14.433	0.5	Pass
g	2462	Ant1	13.154	0.5	Pass
g	2412	Ant2	15.725	0.5	Pass
g	2437	Ant2	15.539	0.5	Pass
g	2462	Ant2	12.363	0.5	Pass
n20	2412	Ant1	15.091	0.5	Pass
n20	2437	Ant1	13.846	0.5	Pass
n20	2462	Ant1	16.255	0.5	Pass
n20	2412	Ant2	13.554	0.5	Pass
n20	2437	Ant2	15.004	0.5	Pass
n20	2462	Ant2	13.413	0.5	Pass
n40	2422	Ant1	35.091	0.5	Pass
n40	2437	Ant1	30.023	0.5	Pass
n40	2452	Ant1	35.039	0.5	Pass
n40	2422	Ant2	31.293	0.5	Pass
n40	2437	Ant2	35.116	0.5	Pass
n40	2452	Ant2	35.027	0.5	Pass

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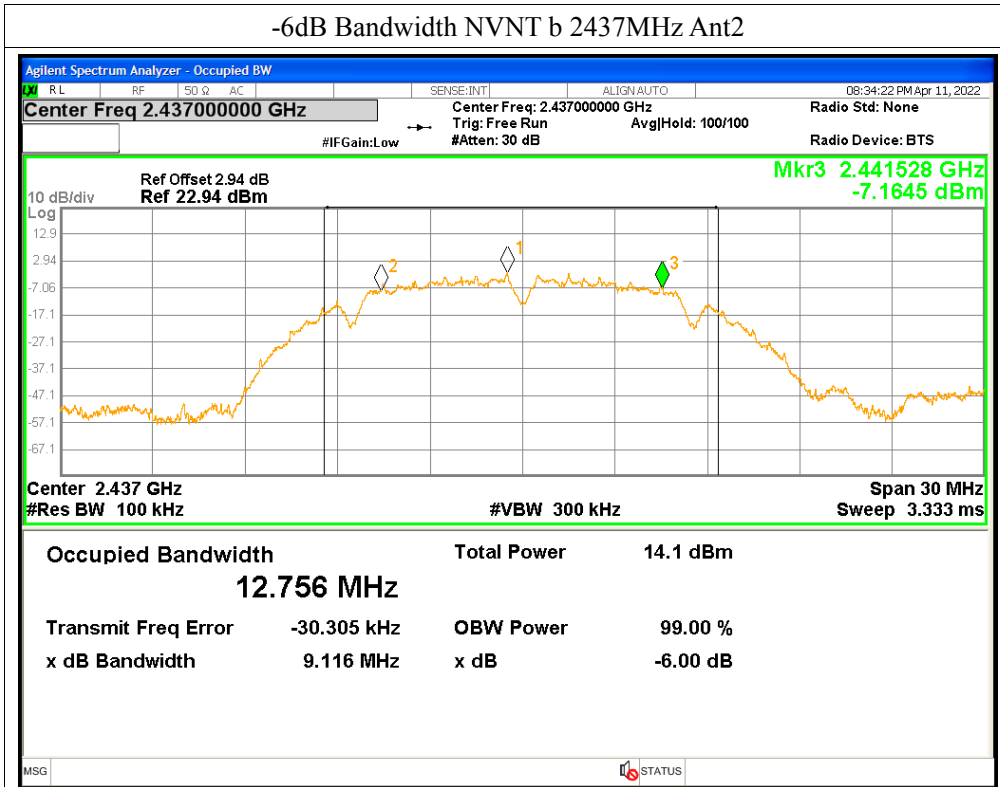
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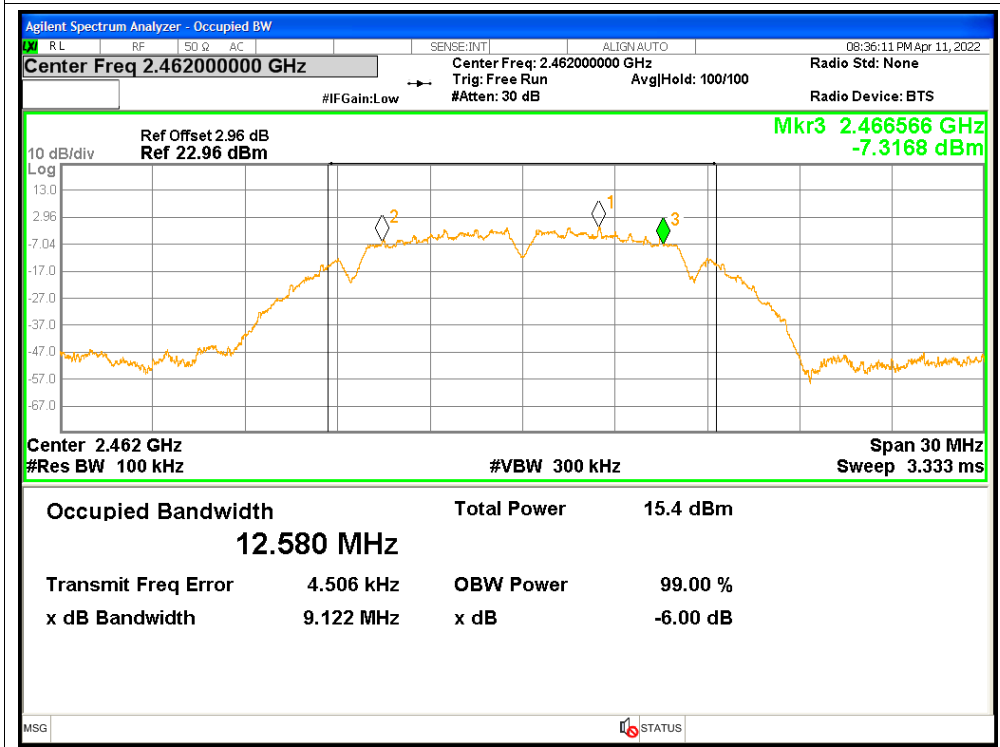
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-6dB Bandwidth NVNT b 2437MHz Ant2



-6dB Bandwidth NVNT b 2462MHz Ant2

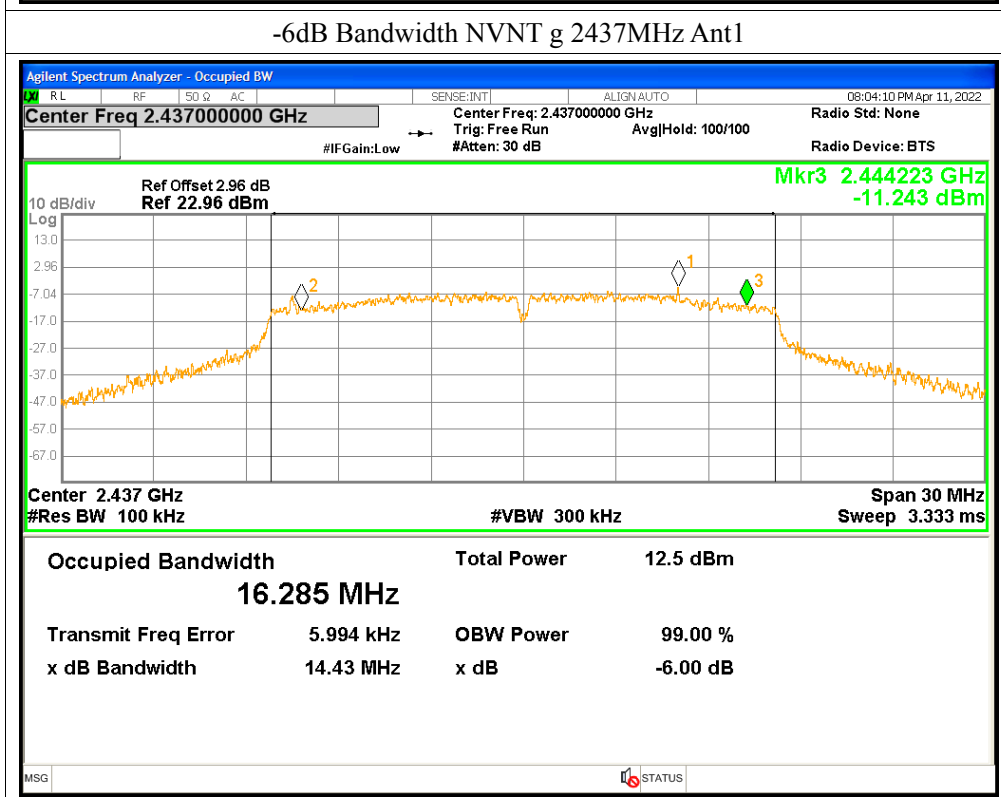
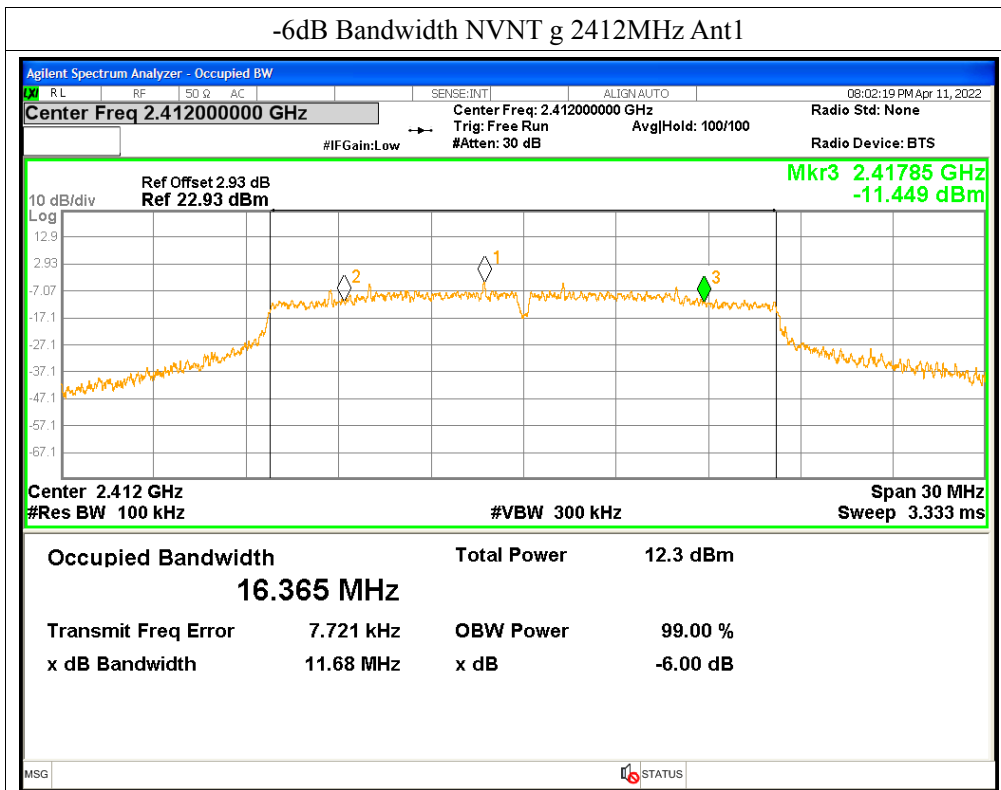


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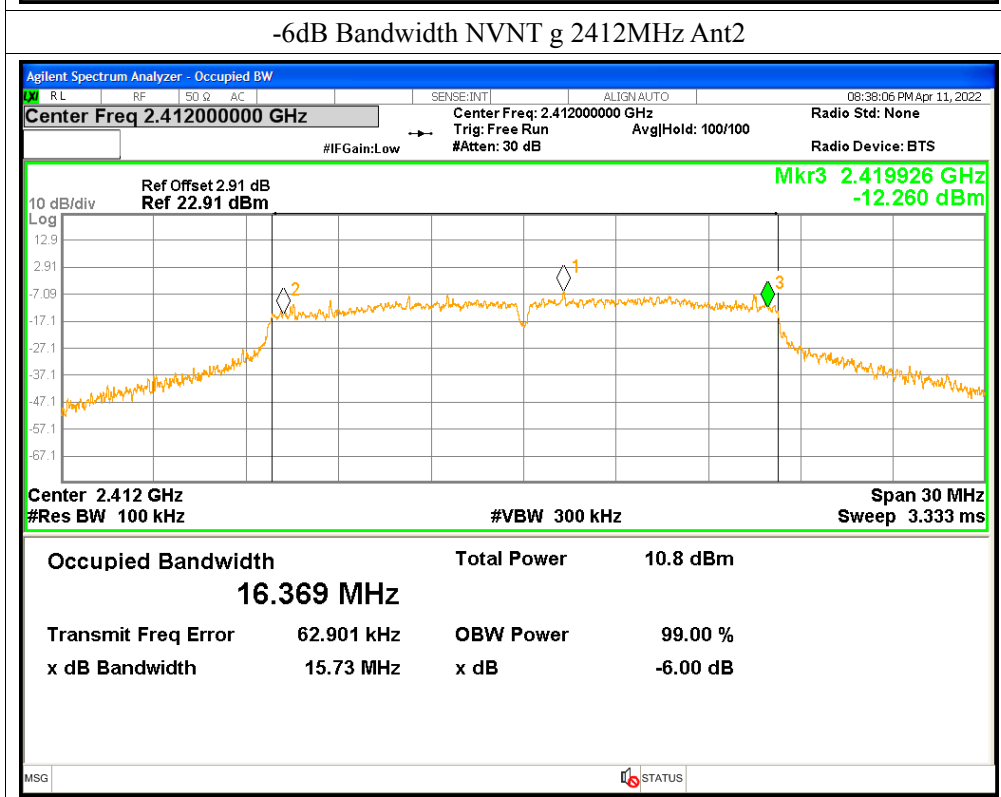
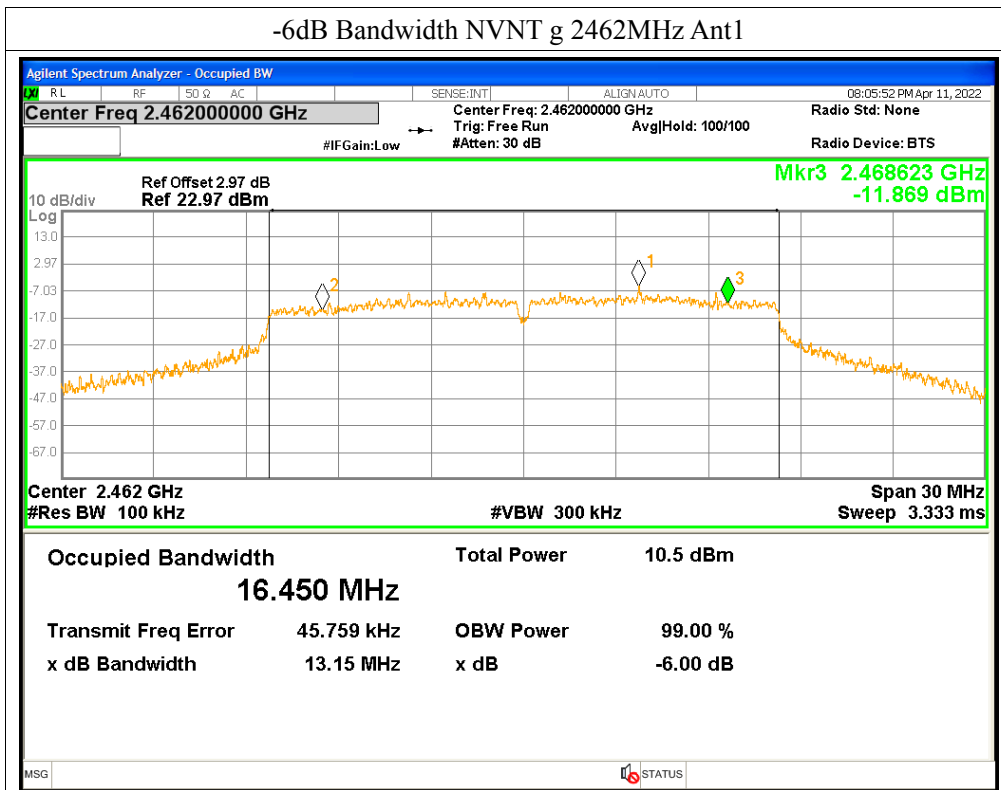
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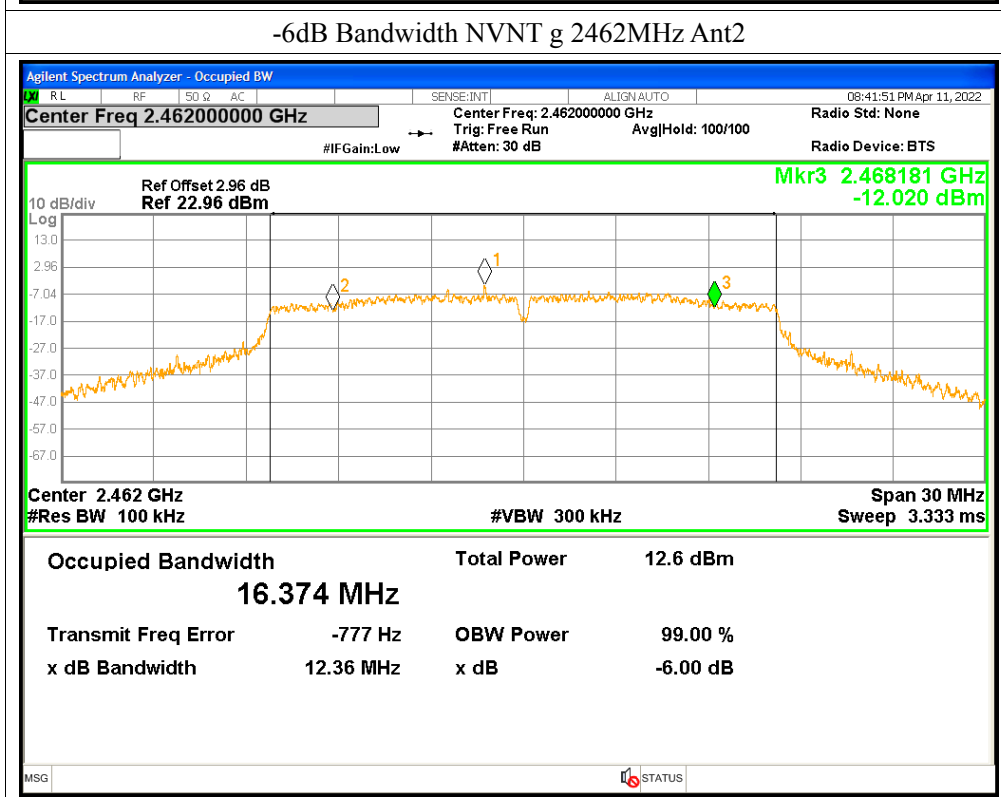
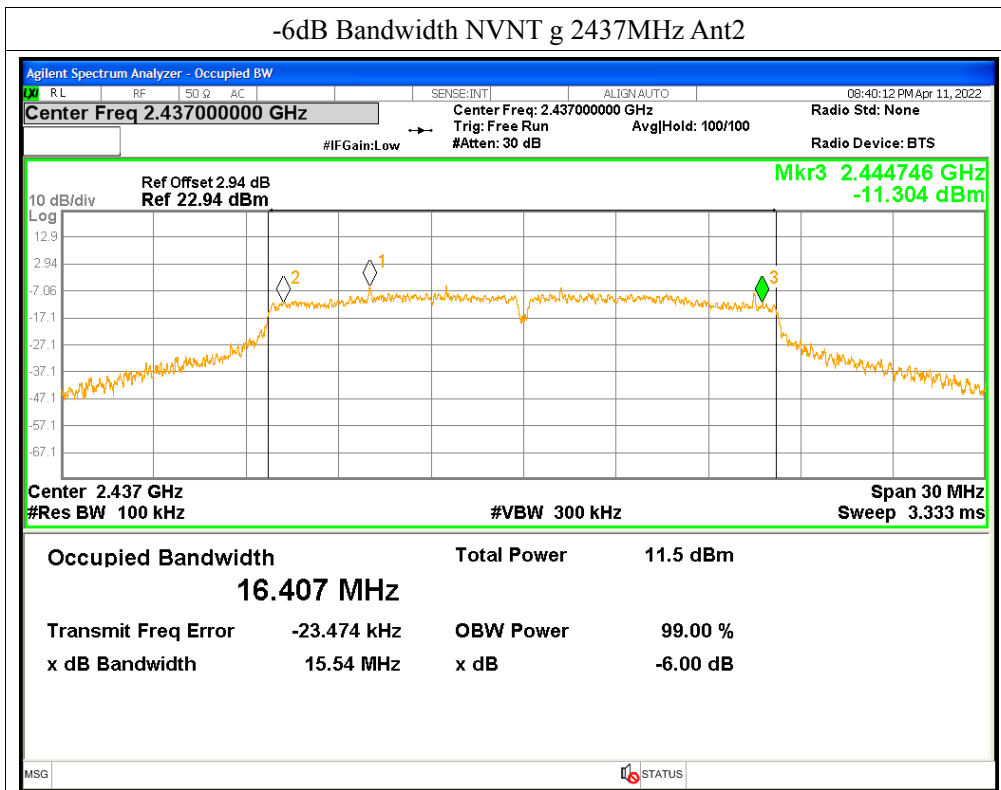
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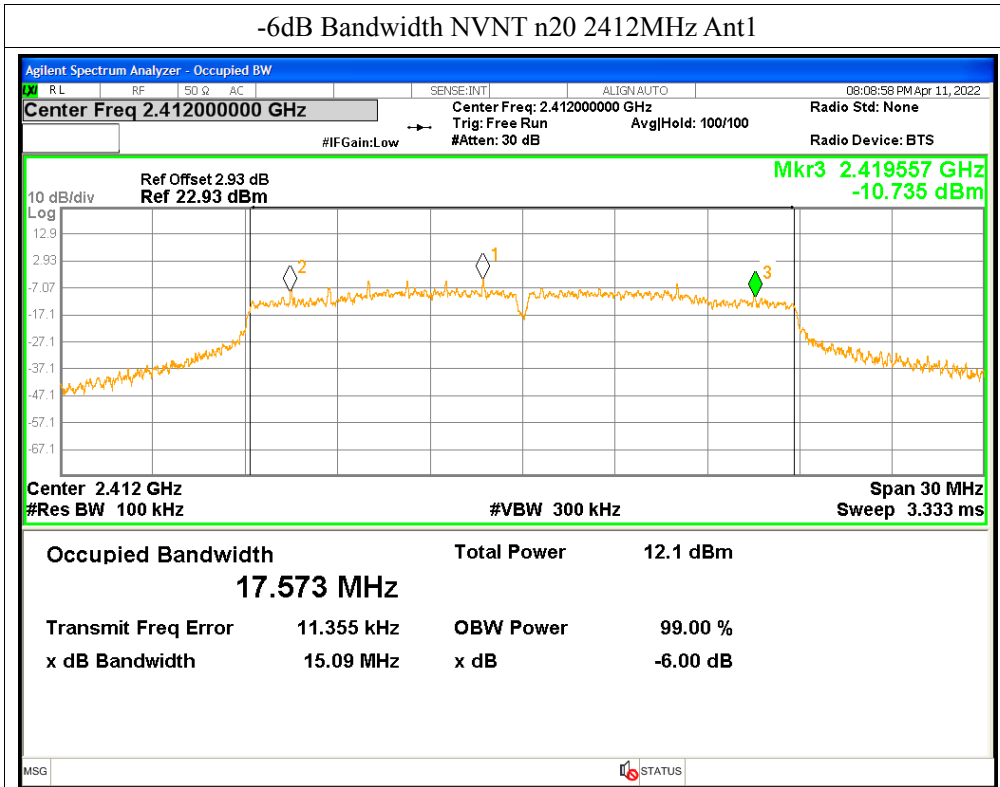
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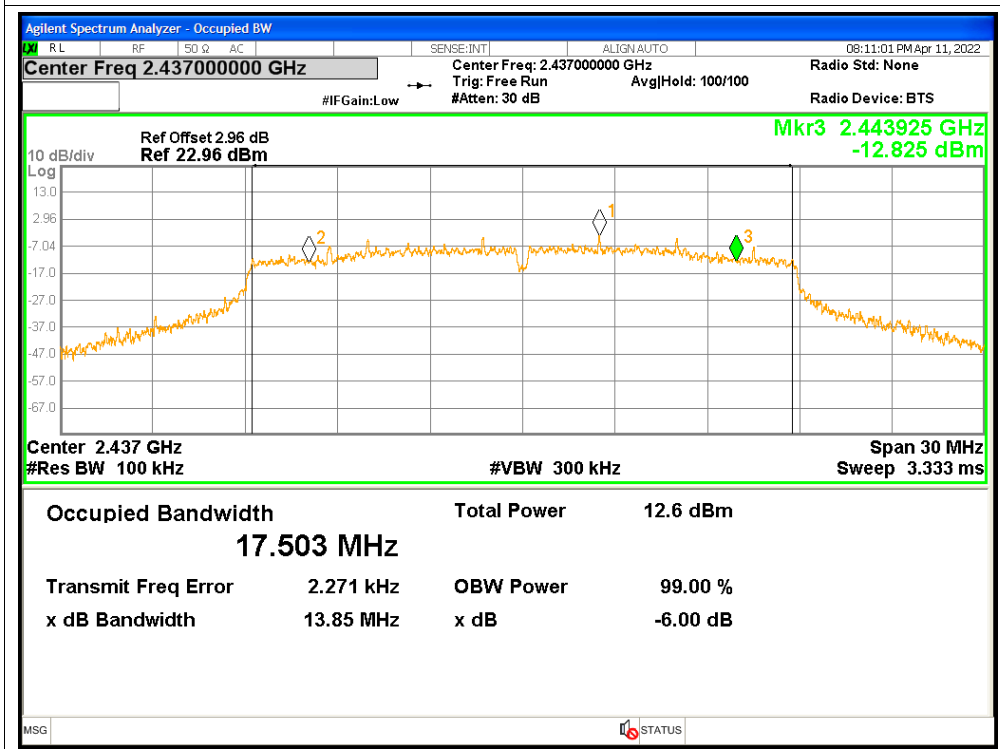
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-6dB Bandwidth NVNT n20 2412MHz Ant1



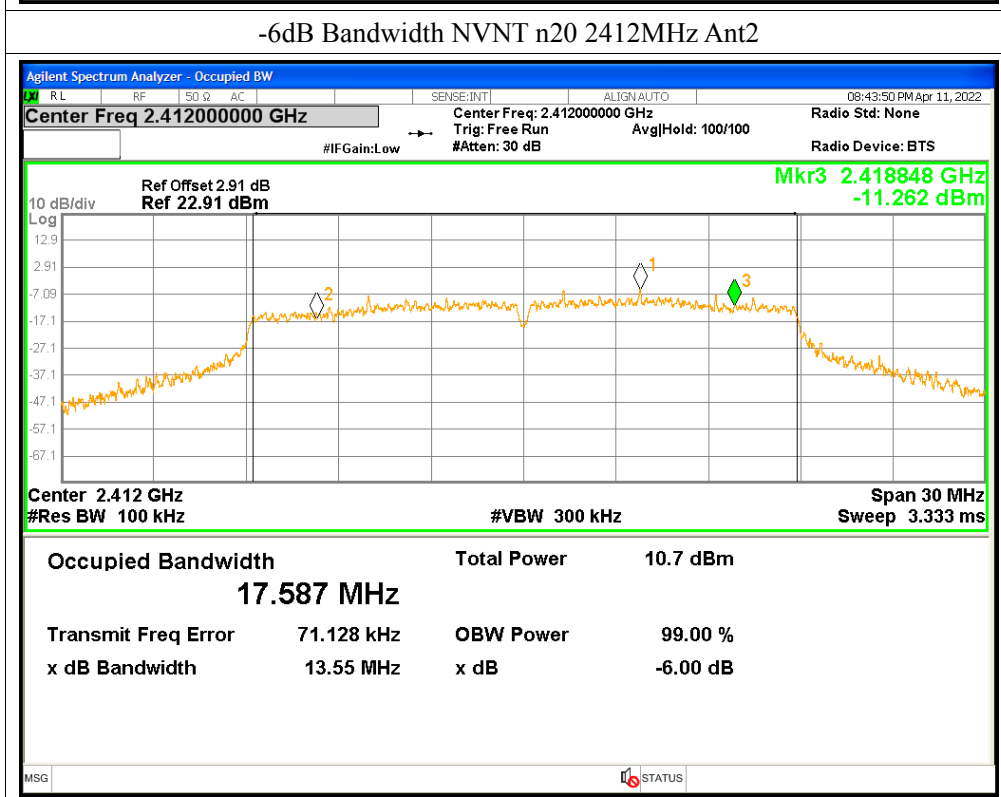
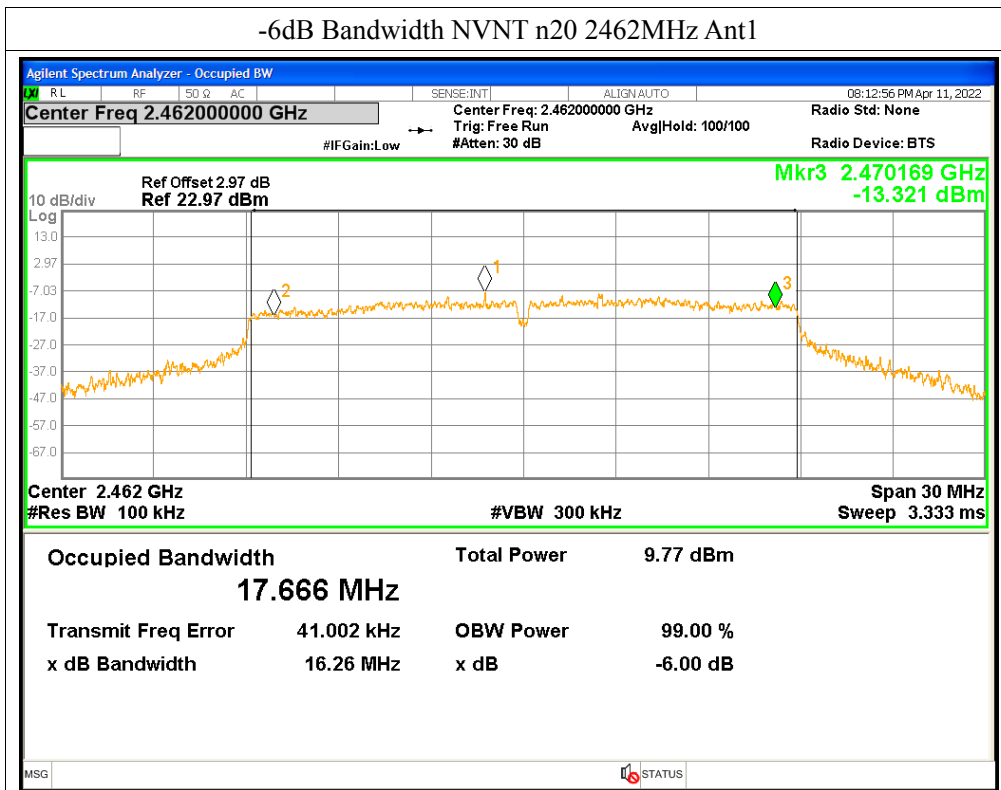
-6dB Bandwidth NVNT n20 2437MHz Ant1



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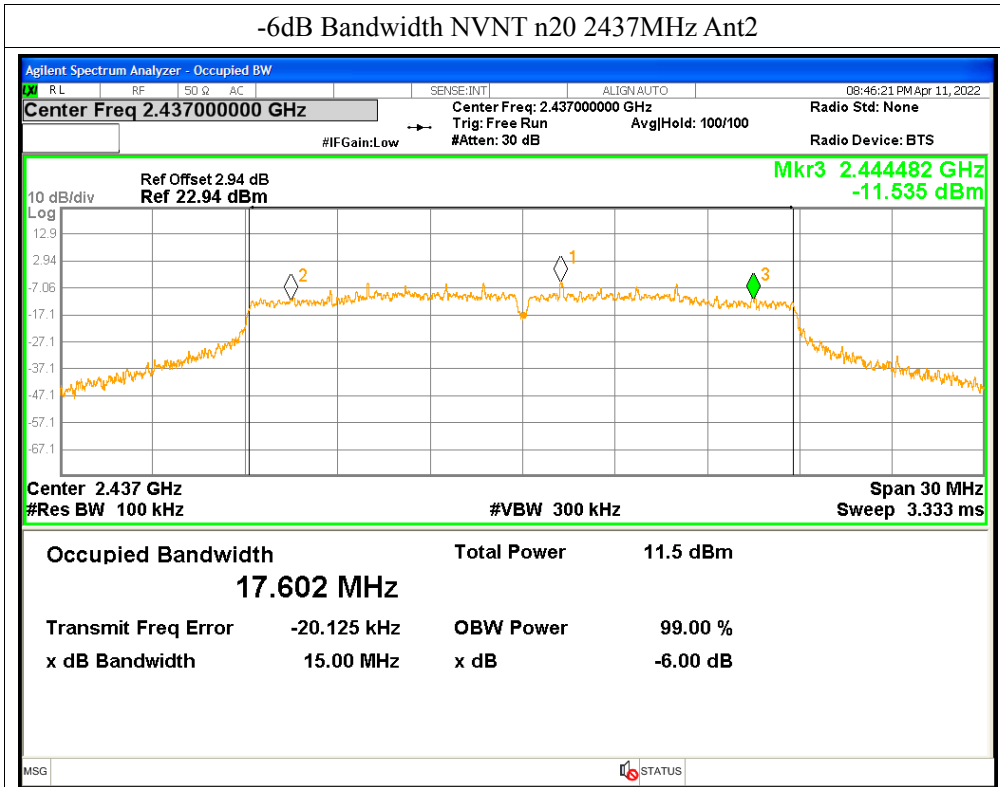


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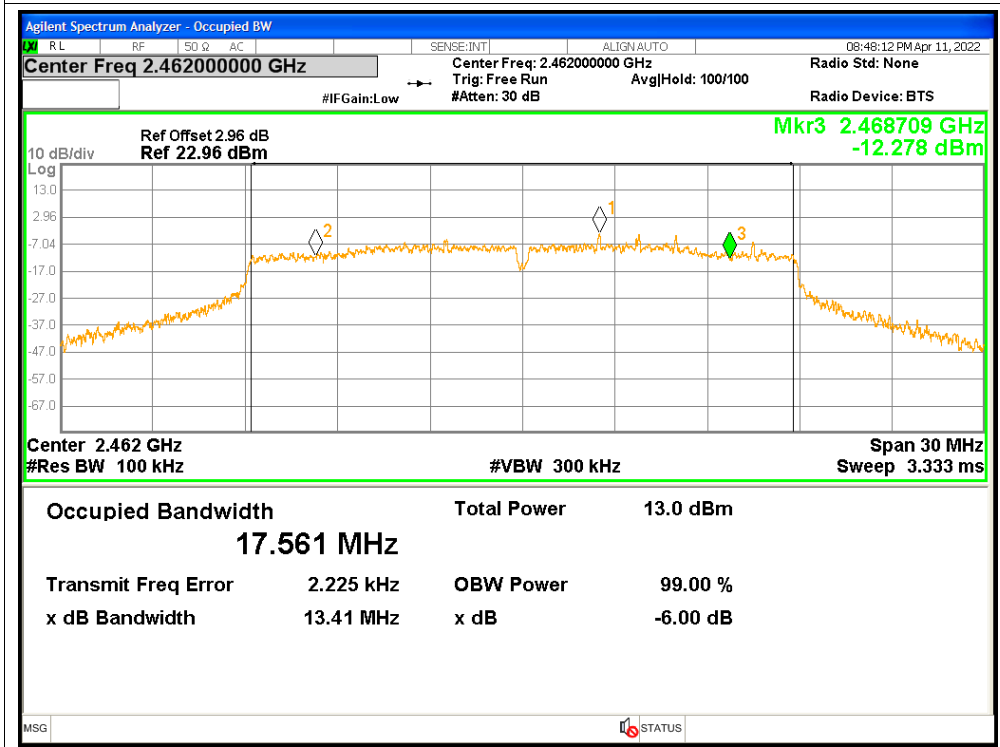
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-6dB Bandwidth NVNT n20 2437MHz Ant2



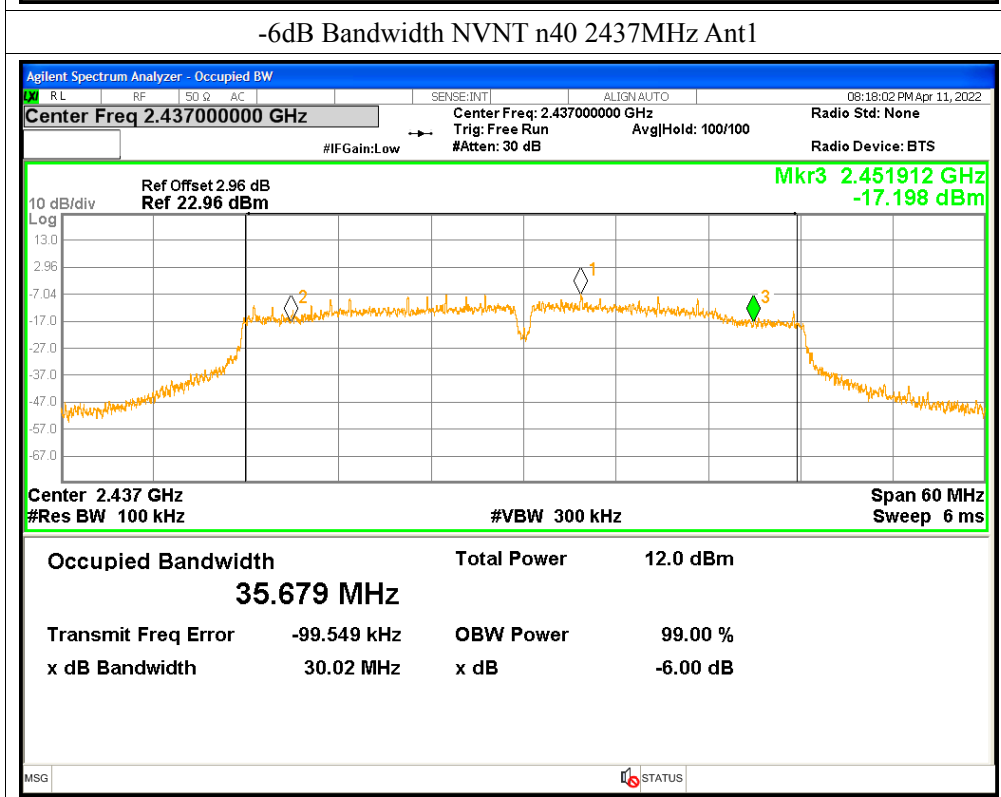
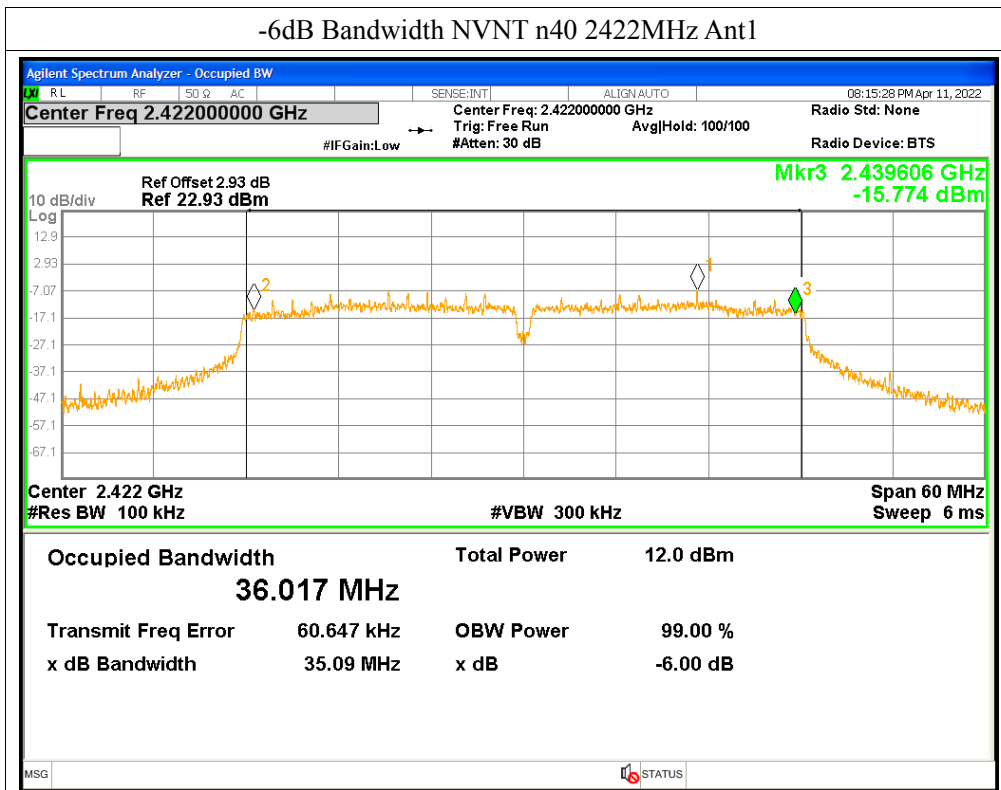
-6dB Bandwidth NVNT n20 2462MHz Ant2



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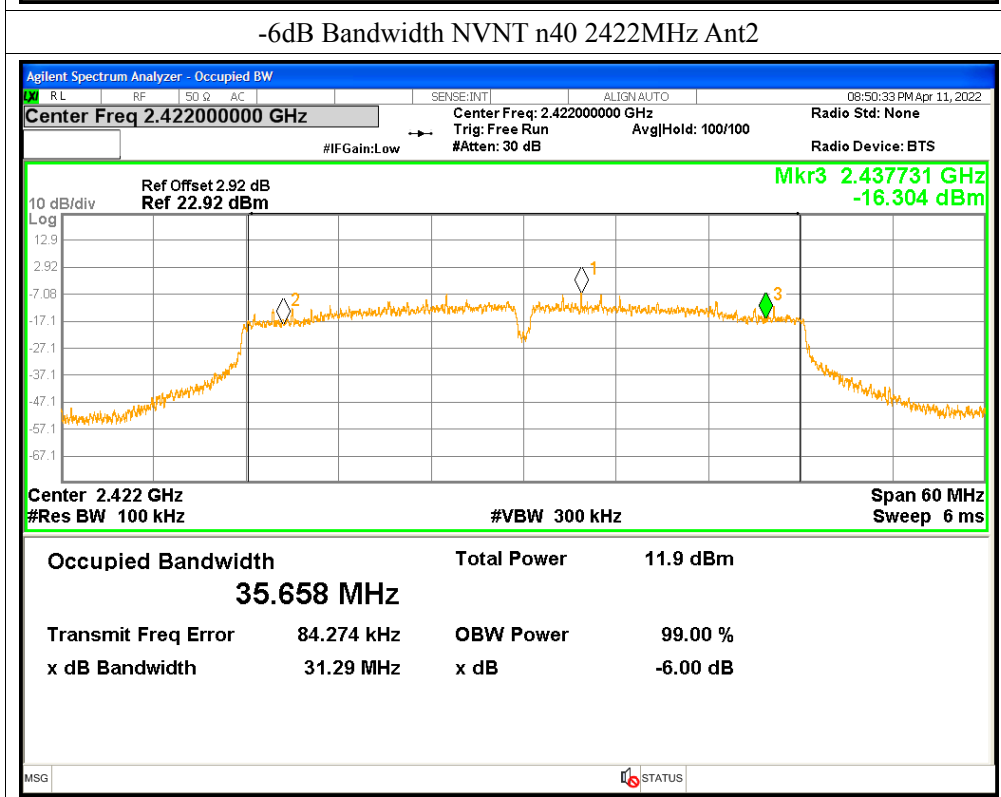
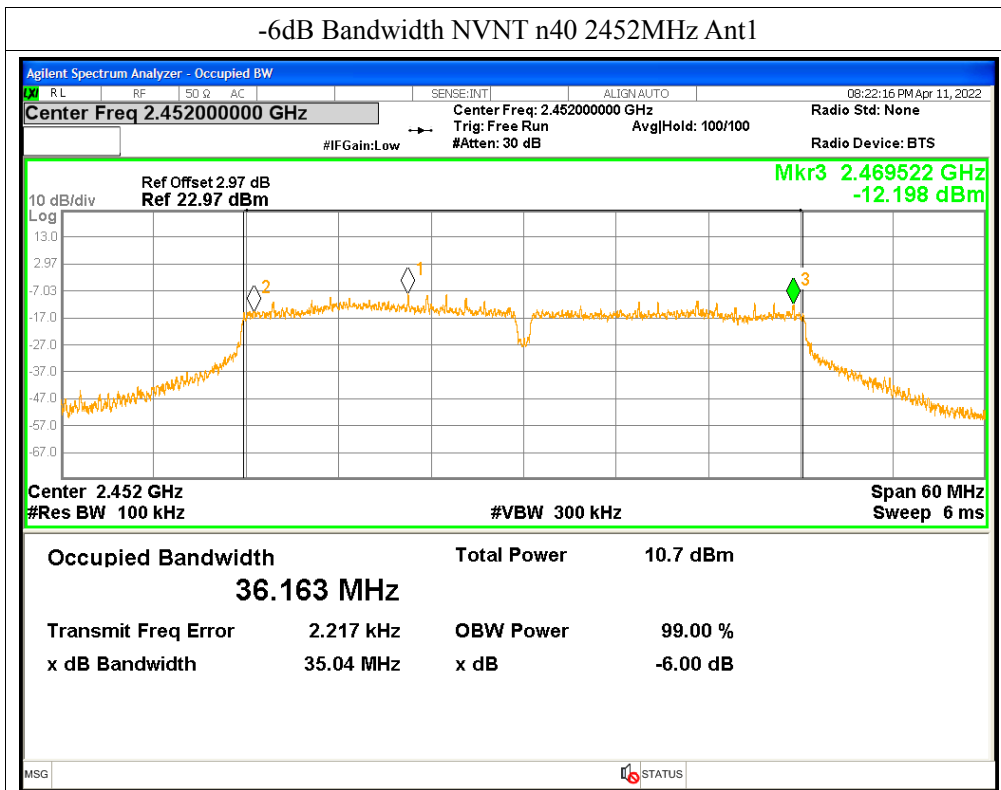
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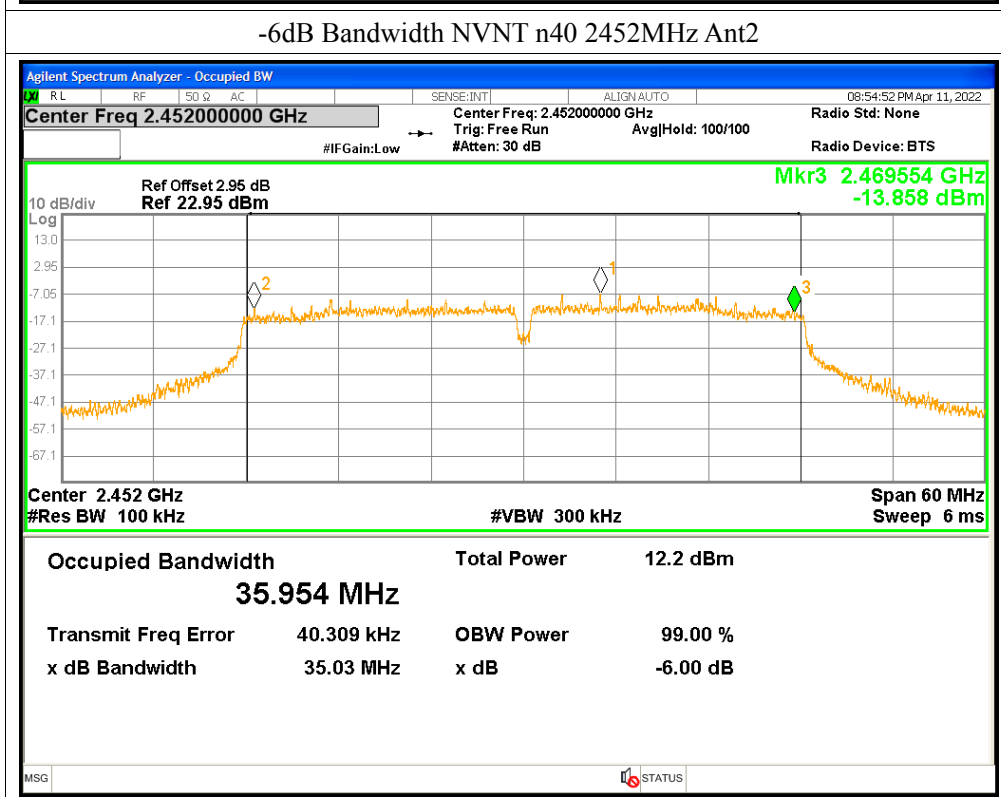
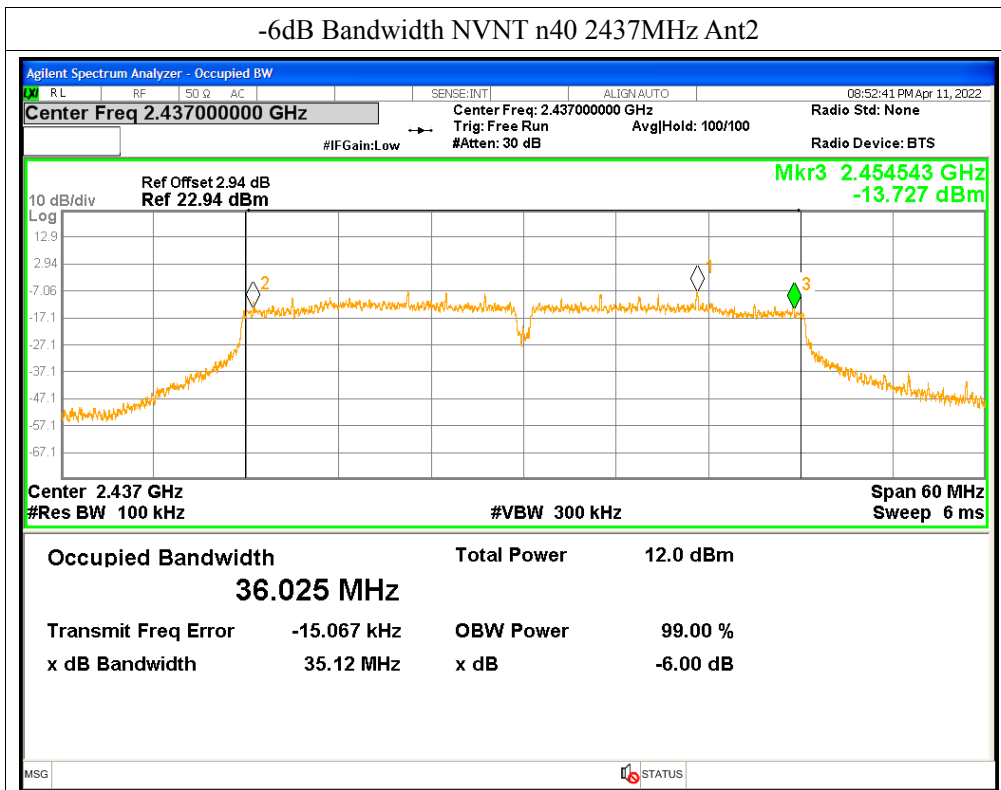
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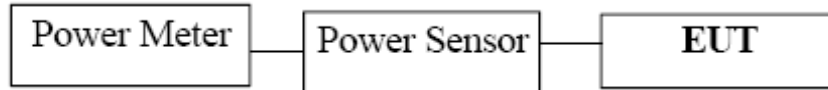
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## 8. Maximum Output Power

### 8.1 Test Setup



### 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

### 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

**Note: The Peak Power was measured**

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**8.4 Test Results**

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	8.04	0	8.04	30	Pass
b	2437	Ant1	8.64	0	8.64	30	Pass
b	2462	Ant1	5.45	0	5.45	30	Pass
b	2412	Ant2	8.41	0	8.41	30	Pass
b	2437	Ant2	9.23	0	9.23	30	Pass
b	2462	Ant2	10.64	0	10.64	30	Pass
g	2412	Ant1	11	0	11	30	Pass
g	2437	Ant1	11.24	0	11.24	30	Pass
g	2462	Ant1	9.16	0	9.16	30	Pass
g	2412	Ant2	9.53	0	9.53	30	Pass
g	2437	Ant2	10.32	0	10.32	30	Pass
g	2462	Ant2	11.46	0	11.46	30	Pass
n20	2412	Ant1	10.65	0	10.65	30	Pass
n20	2437	Ant1	11.26	0	11.26	30	Pass
n20	2462	Ant1	8.49	0	8.49	30	Pass
n20	2412	Ant2	9.37	0	9.37	30	Pass
n20	2437	Ant2	10.09	0	10.09	30	Pass
n20	2462	Ant2	11.7	0	11.7	30	Pass
n40	2422	Ant1	10.47	0	10.47	30	Pass
n40	2437	Ant1	10.42	0	10.42	30	Pass
n40	2452	Ant1	8.91	0	8.91	30	Pass
n40	2422	Ant2	10.45	0	10.45	30	Pass
n40	2437	Ant2	10.59	0	10.59	30	Pass
n40	2452	Ant2	10.83	0	10.83	30	Pass

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Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
n20 MIMO	2412	Ant1 + Ant2	13.07	30	Pass
n20 MIMO	2437	Ant1 + Ant2	13.72	30	Pass
n20 MIMO	2462	Ant1 + Ant2	13.40	30	Pass
n40 MIMO	2422	Ant1 + Ant2	13.47	30	Pass
n40 MIMO	2437	Ant1 + Ant2	13.52	30	Pass
n40 MIMO	2452	Ant1 + Ant2	12.99	30	Pass

Note: 1. At final test to get the worst-case emission at msc0 of 11n HT40 for CH03, CH06 and CH09

2. The result basic equation calculation as follow:

$$\text{Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

3. The worse case was recorded

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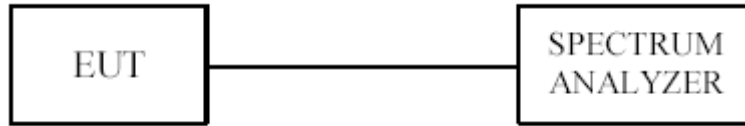
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## 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 100 kHz.
3. Set the VBW  $\geq$  300 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
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.
11. The resulting peak PSD level must be  $\leq$  8 dBm/3kHz.

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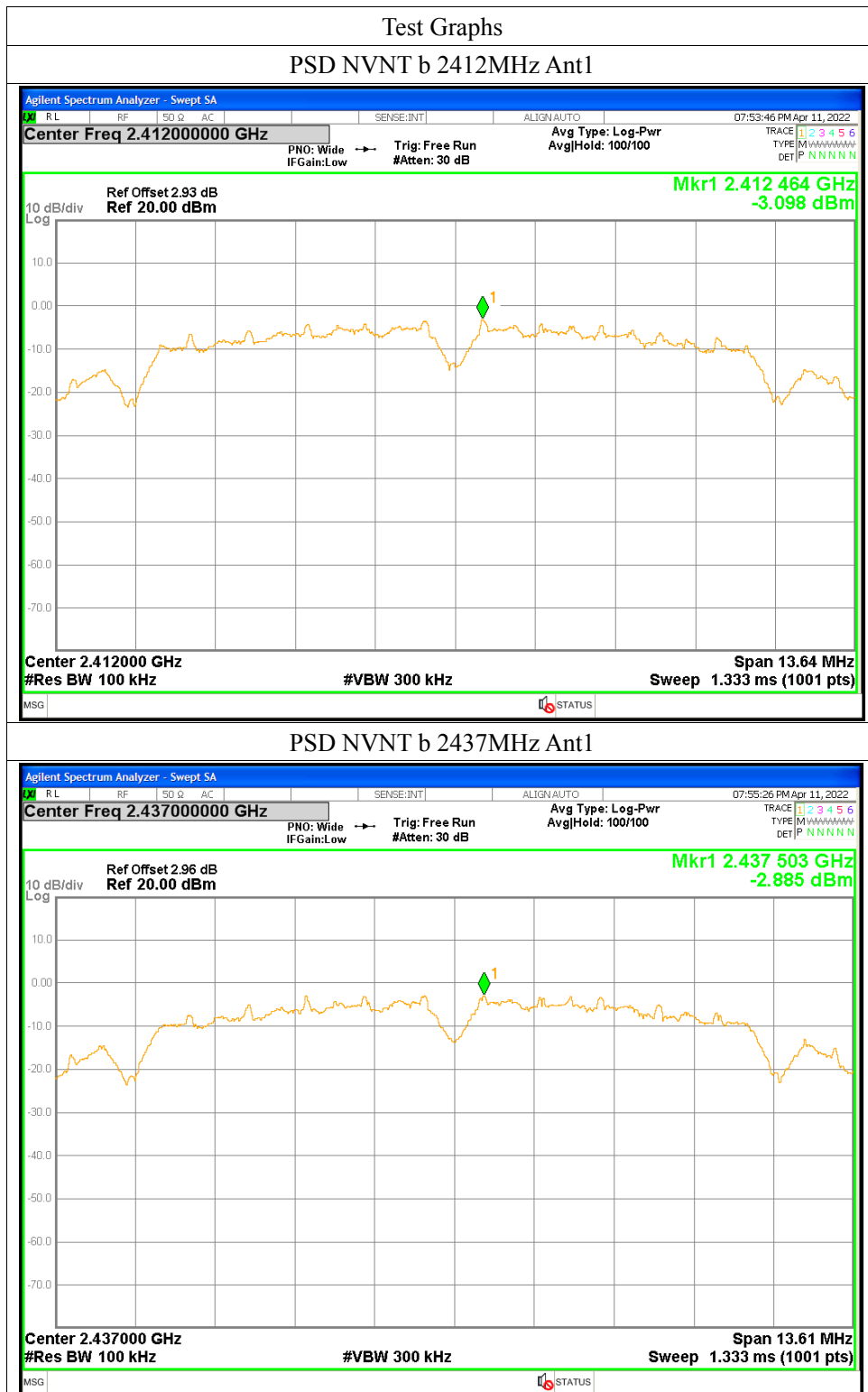


**9.4 Test Result**

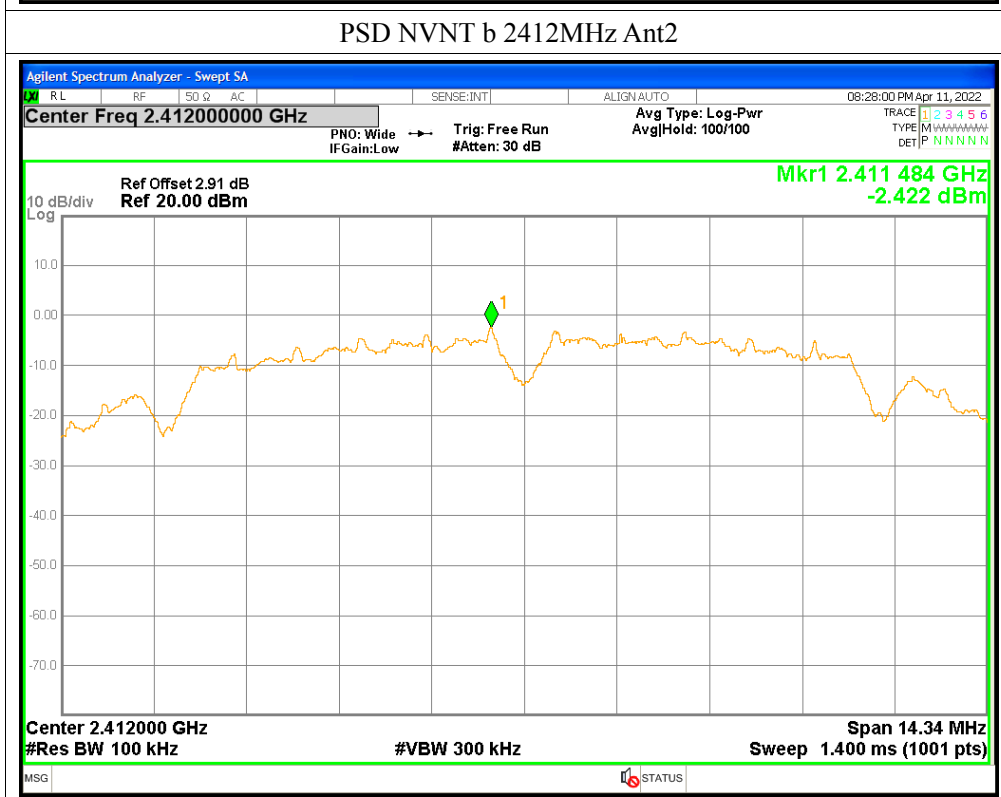
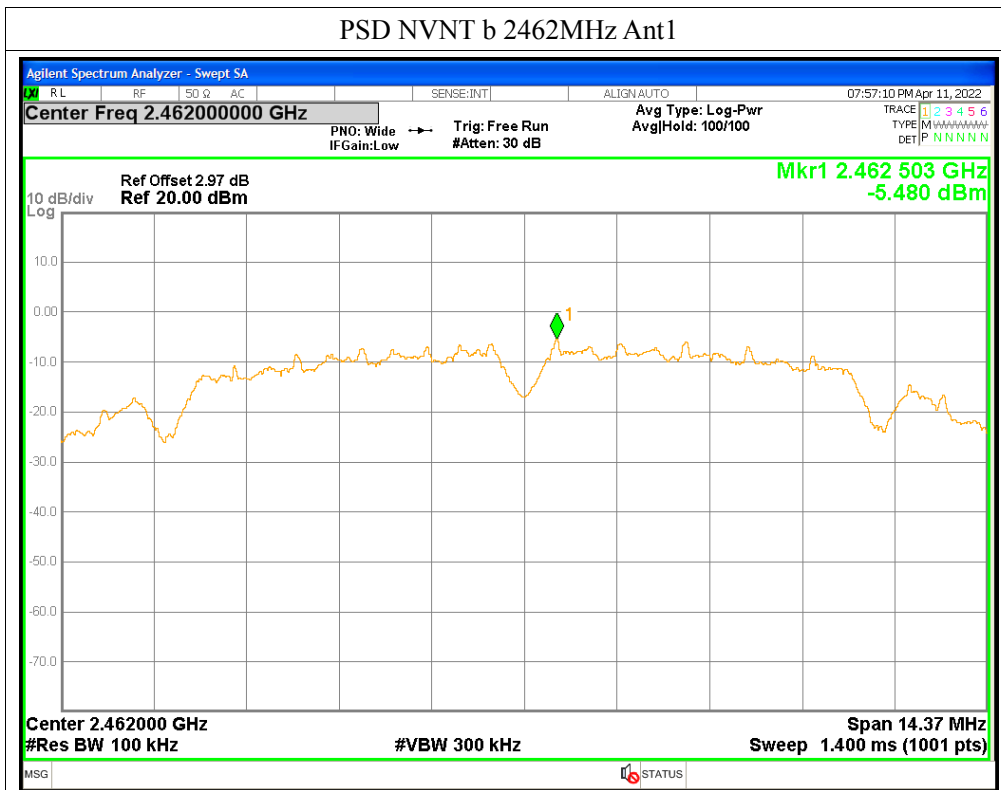
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/100kHz)	Duty Factor (dB)	Total PSD (dBm/100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-3.1	0	-3.1	8	Pass
b	2437	Ant1	-2.89	0	-2.89	8	Pass
b	2462	Ant1	-5.48	0	-5.48	8	Pass
b	2412	Ant2	-2.42	0	-2.42	8	Pass
b	2437	Ant2	-1.43	0	-1.43	8	Pass
b	2462	Ant2	-0.82	0	-0.82	8	Pass
g	2412	Ant1	-3.84	0	-3.84	8	Pass
g	2437	Ant1	-2.74	0	-2.74	8	Pass
g	2462	Ant1	-5.44	0	-5.44	8	Pass
g	2412	Ant2	-4.65	0	-4.65	8	Pass
g	2437	Ant2	-4.52	0	-4.52	8	Pass
g	2462	Ant2	-5.21	0	-5.21	8	Pass
n20 SISO	2412	Ant1	-3.96	0	-3.96	8	Pass
n20 SISO	2437	Ant1	-5.15	0	-5.15	8	Pass
n20 SISO	2462	Ant1	-5.52	0	-5.52	8	Pass
n20 SISO	2412	Ant2	-5.36	0	-5.36	8	Pass
n20 SISO	2437	Ant2	-4.66	0	-4.66	8	Pass
n20 SISO	2462	Ant2	-3.33	0	-3.33	8	Pass
n40 SISO	2422	Ant1	-7.68	0	-7.68	8	Pass
n40 SISO	2437	Ant1	-6.57	0	-6.57	8	Pass
n40 SISO	2452	Ant1	-7.62	0	-7.62	8	Pass
n40 SISO	2422	Ant2	-7.23	0	-7.23	8	Pass
n40 SISO	2437	Ant2	-7.67	0	-7.67	8	Pass
n40 SISO	2452	Ant2	-6.5	0	-6.5	8	Pass

Mode	Frequency (MHz)	Antenna	Total PSD (dBm/100kHz)	Limit (dBm/3kHz)	Verdict
n20 MIMO	2412	Ant1 + Ant2	-1.59	8	Pass
n20 MIMO	2437	Ant1 + Ant2	-1.89	8	Pass
n20 MIMO	2462	Ant1 + Ant2	-1.28	8	Pass
n40 MIMO	2422	Ant1 + Ant2	-4.44	8	Pass
n40 MIMO	2437	Ant1 + Ant2	-4.07	8	Pass
n40 MIMO	2452	Ant1 + Ant2	-4.01	8	Pass

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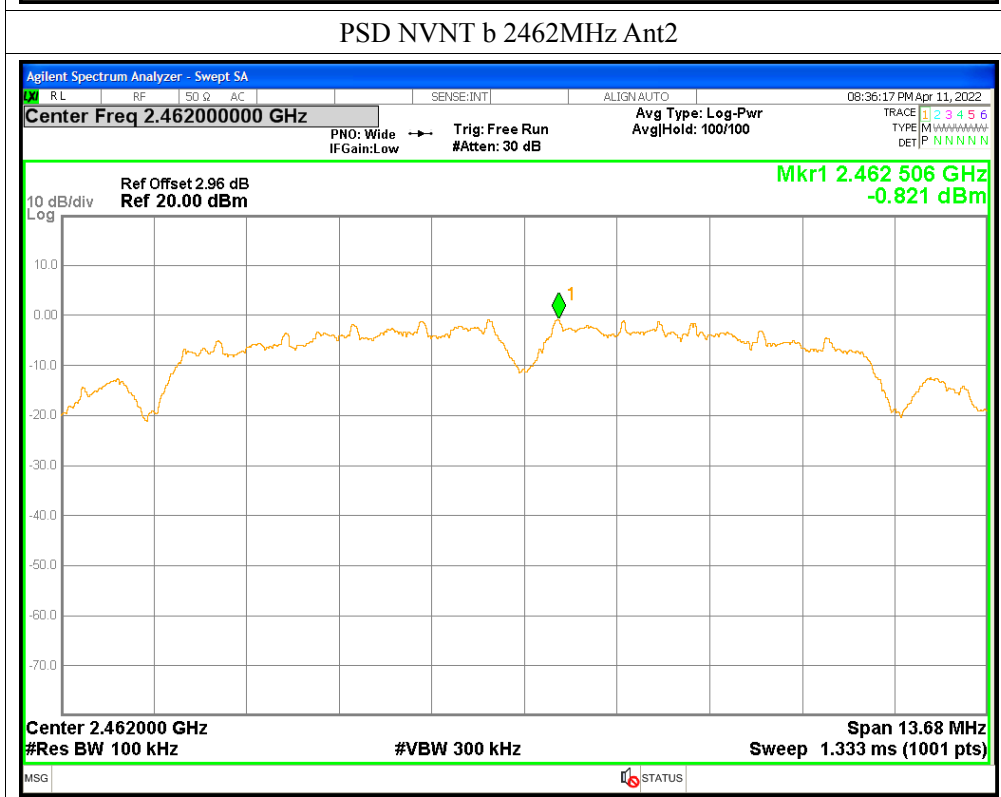
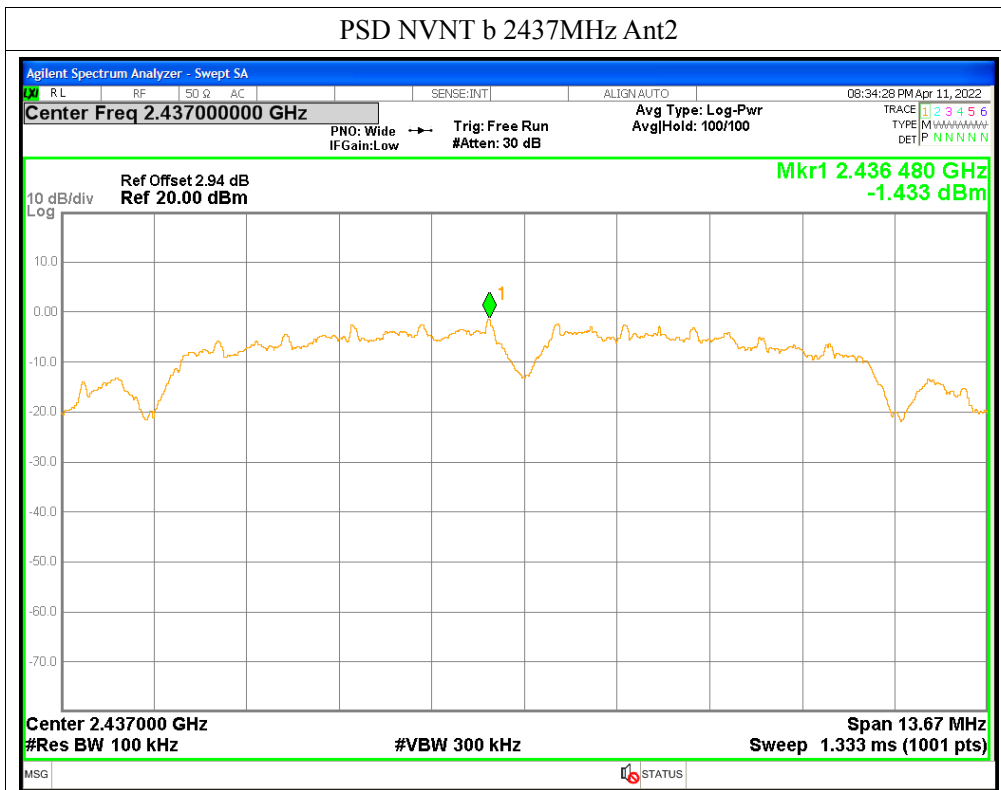


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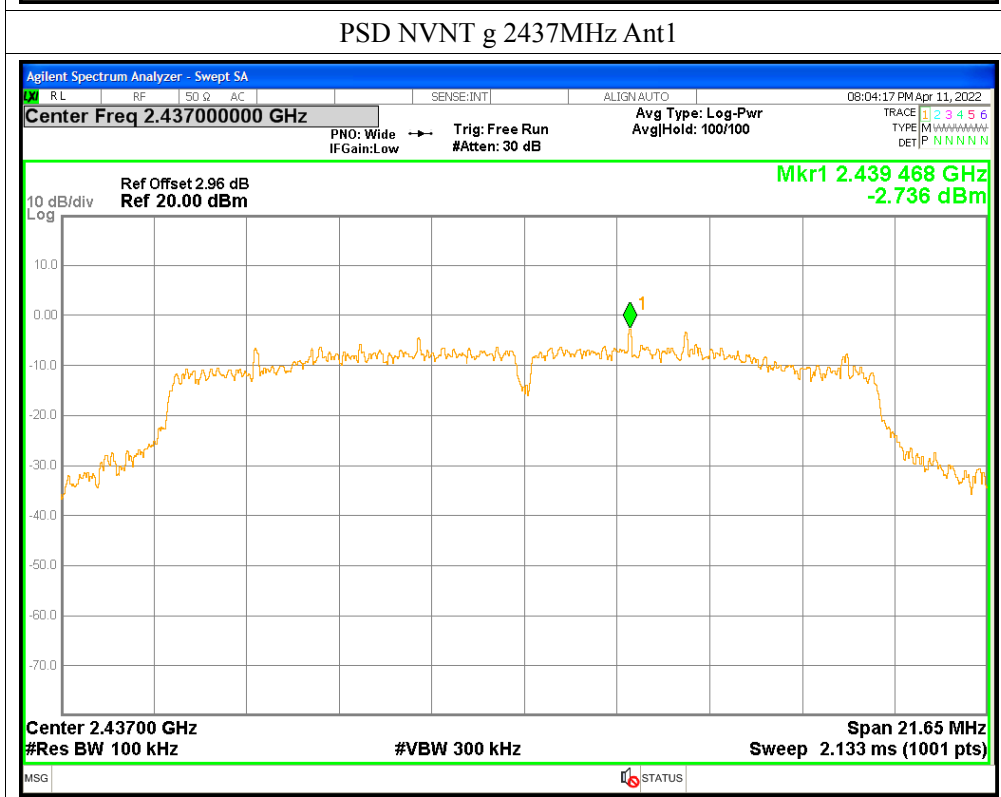
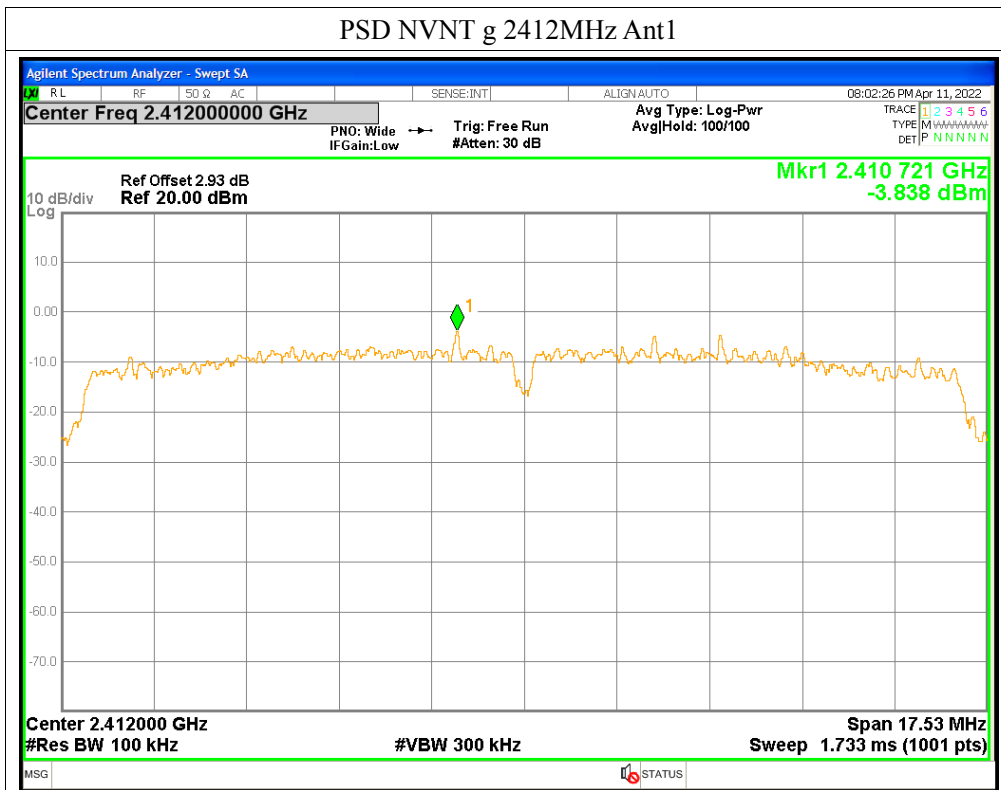


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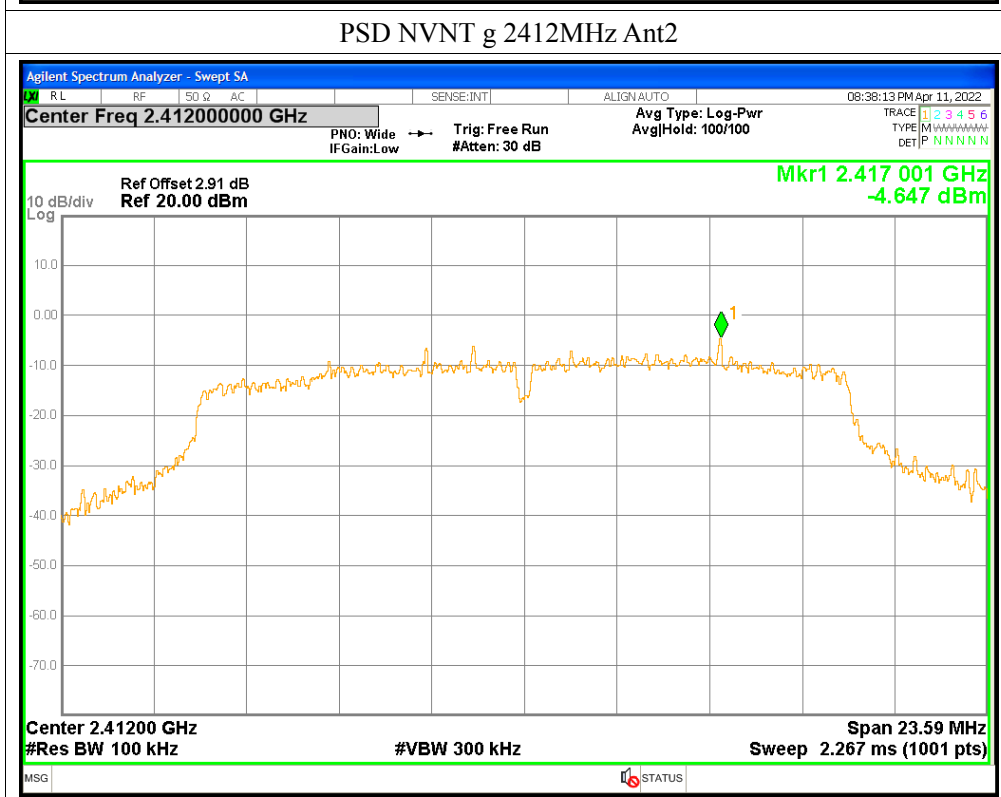
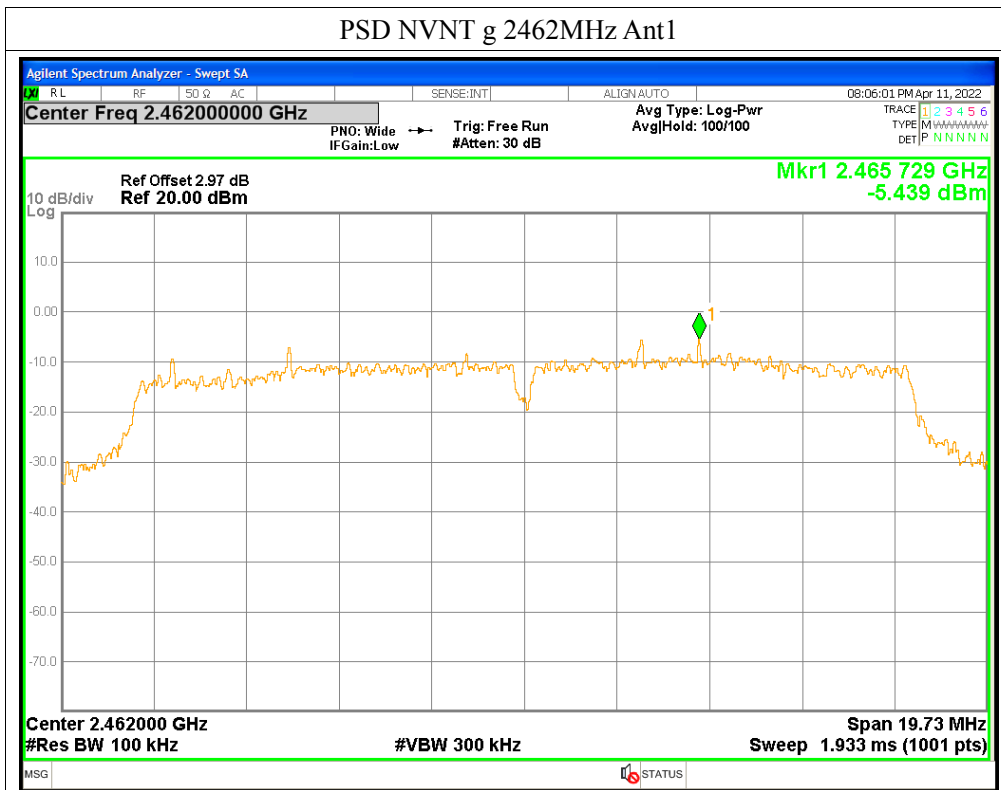




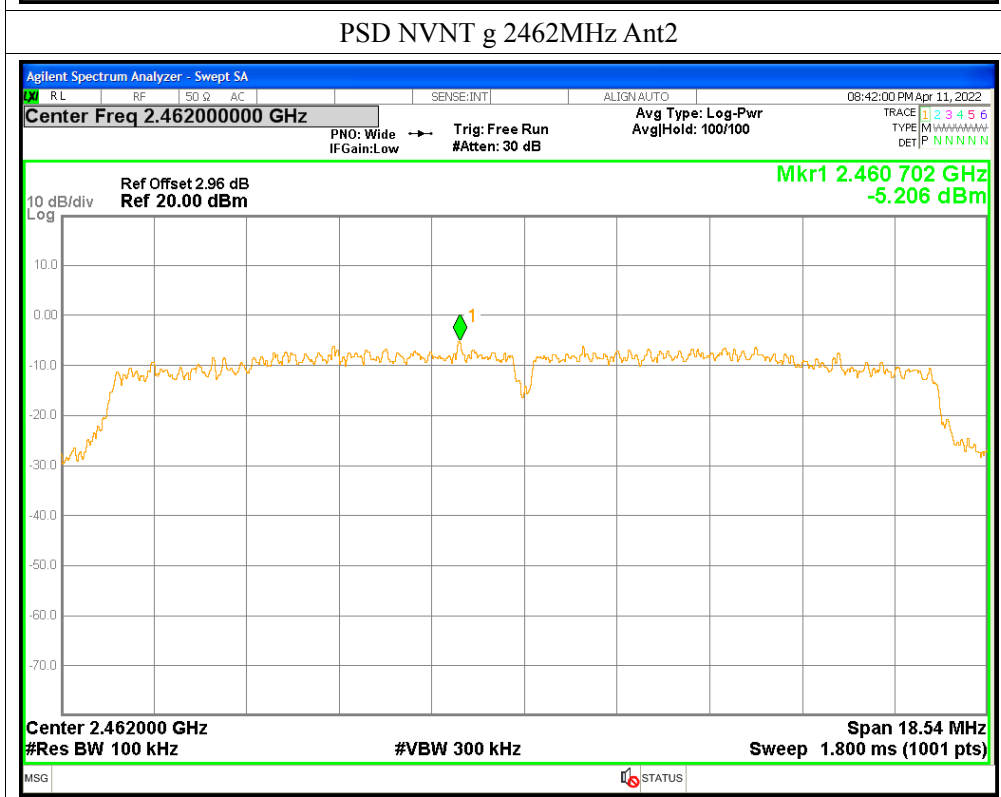
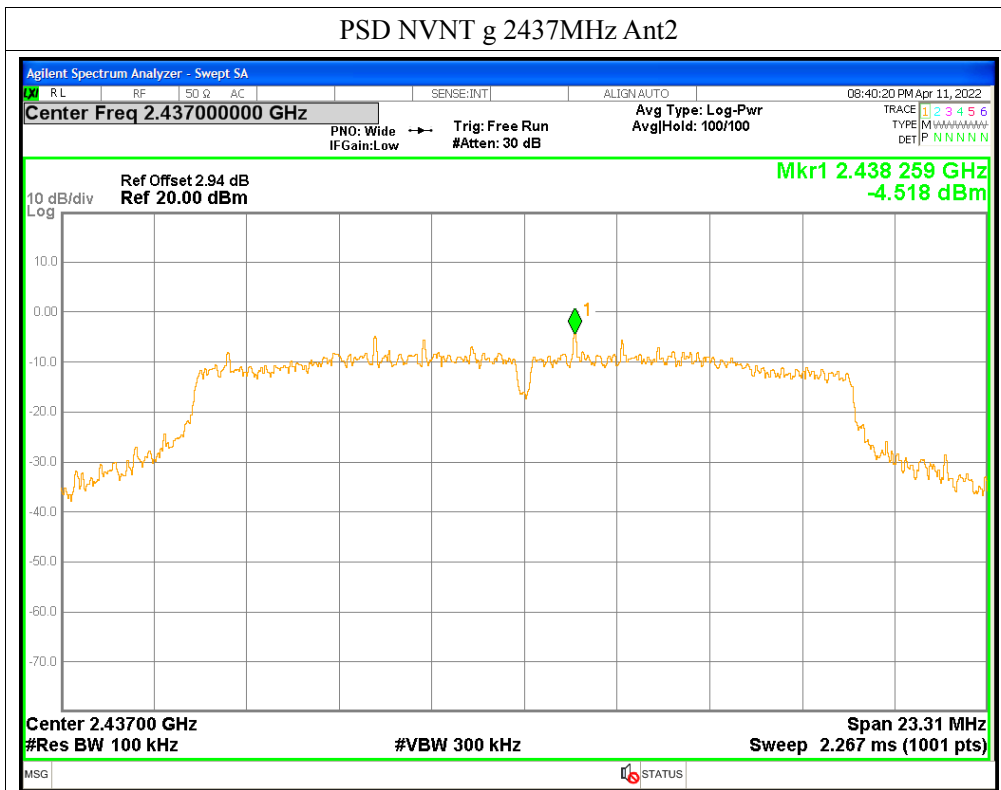
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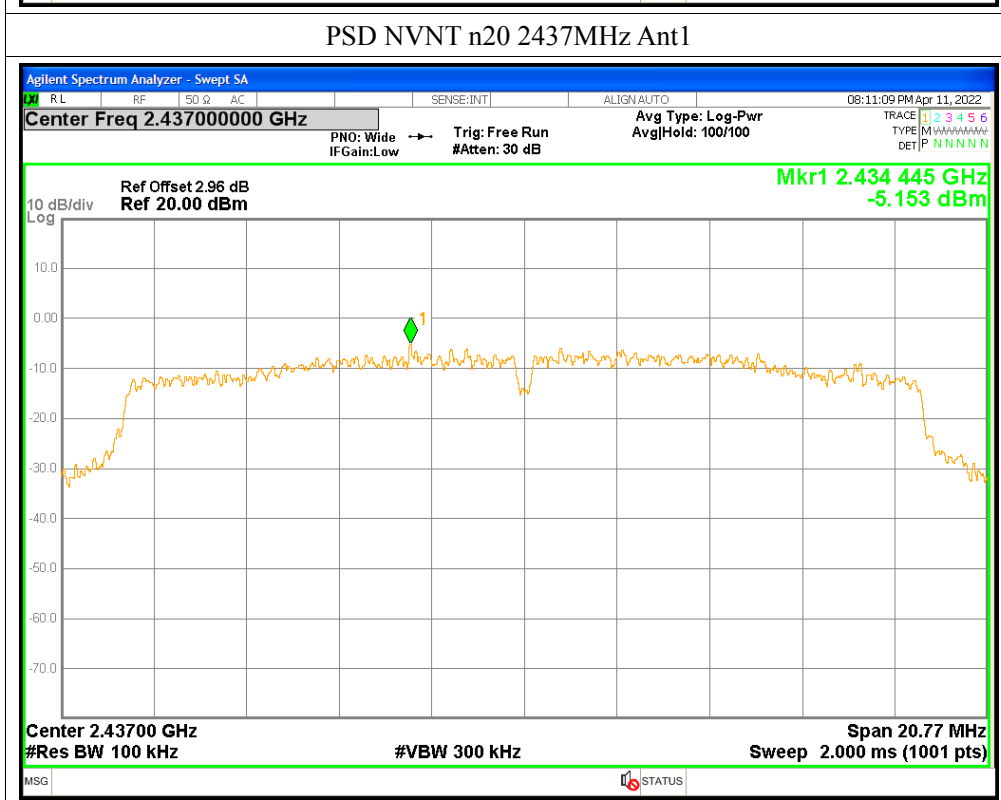
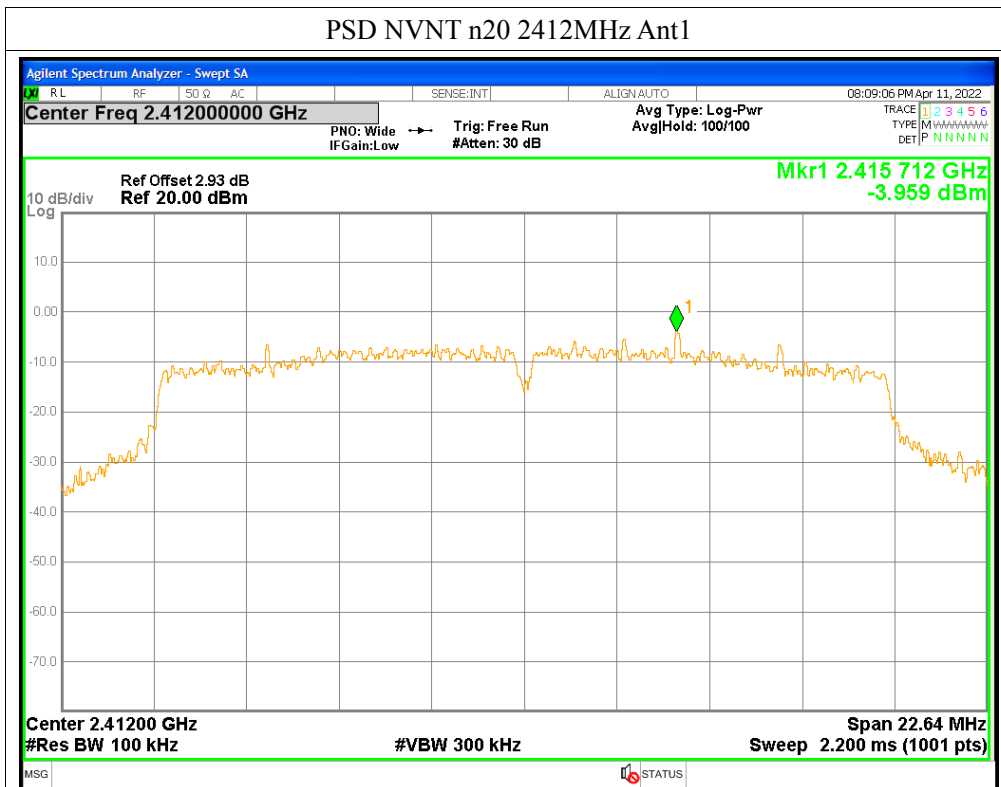
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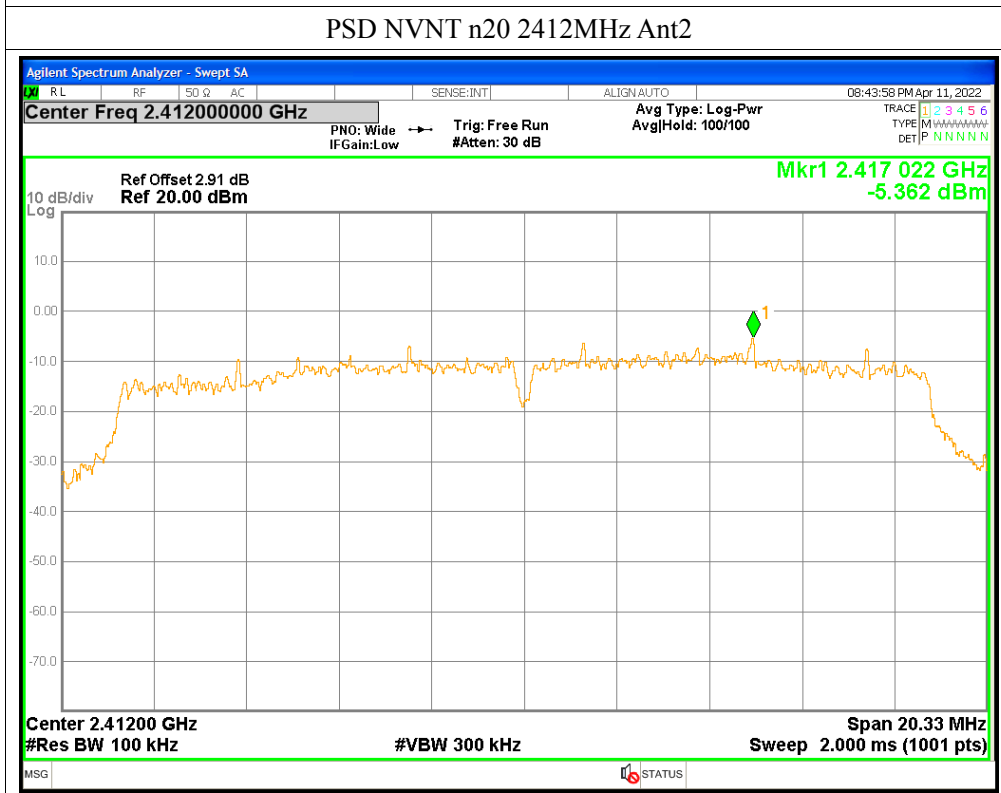
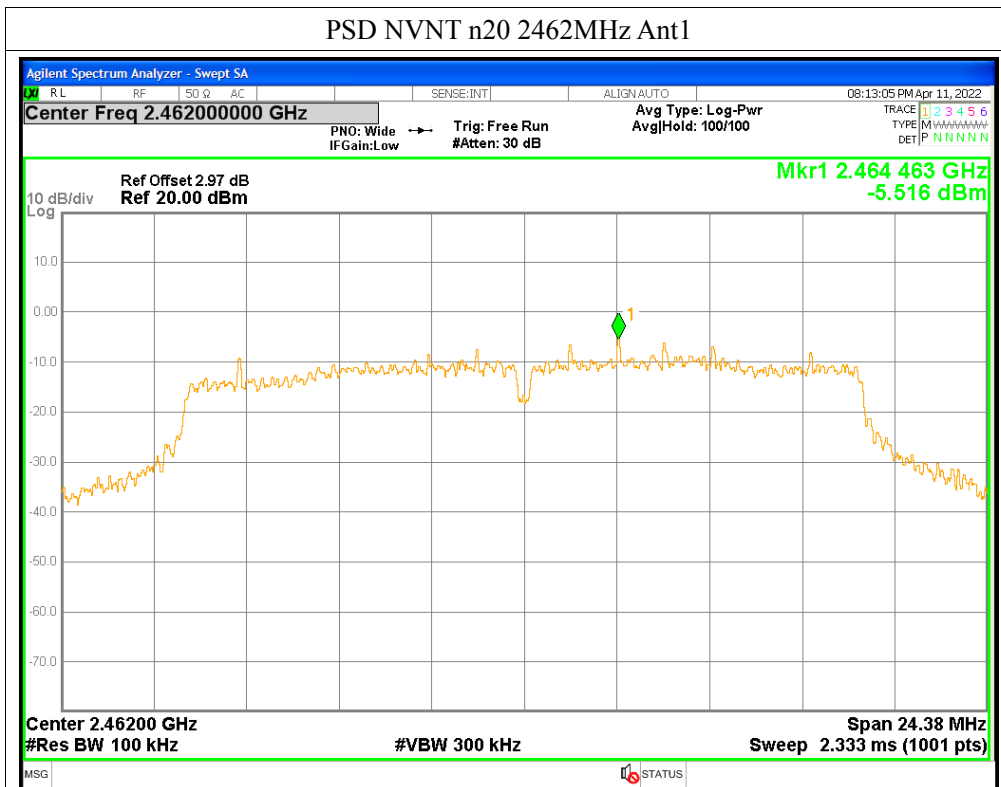
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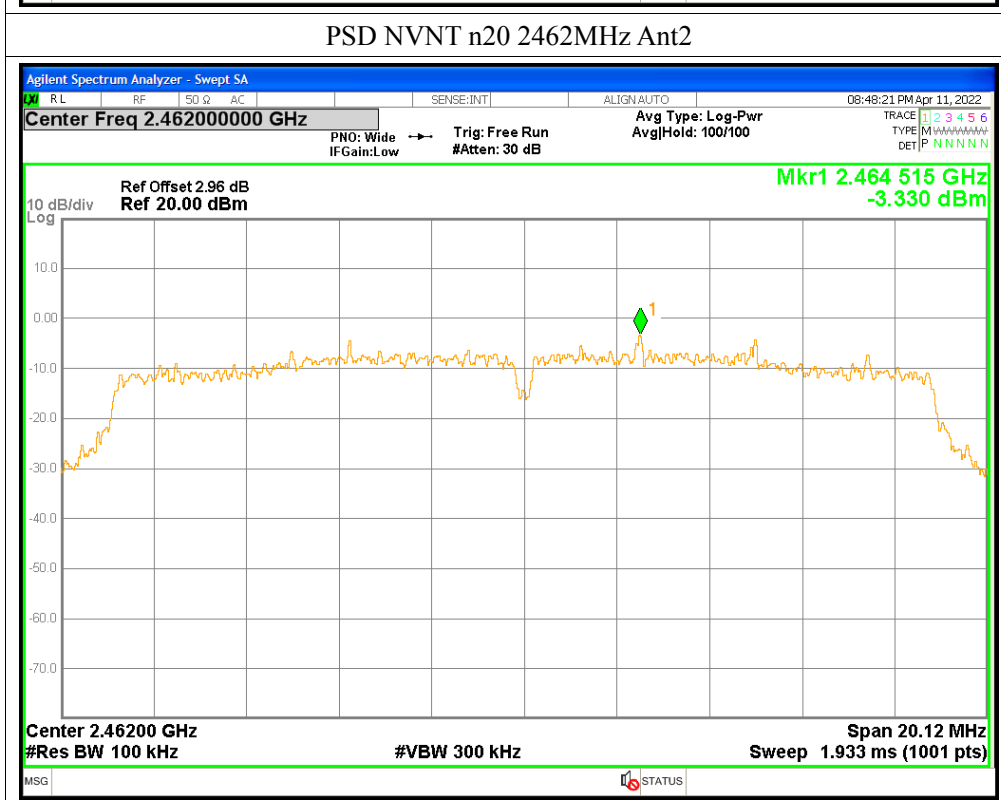
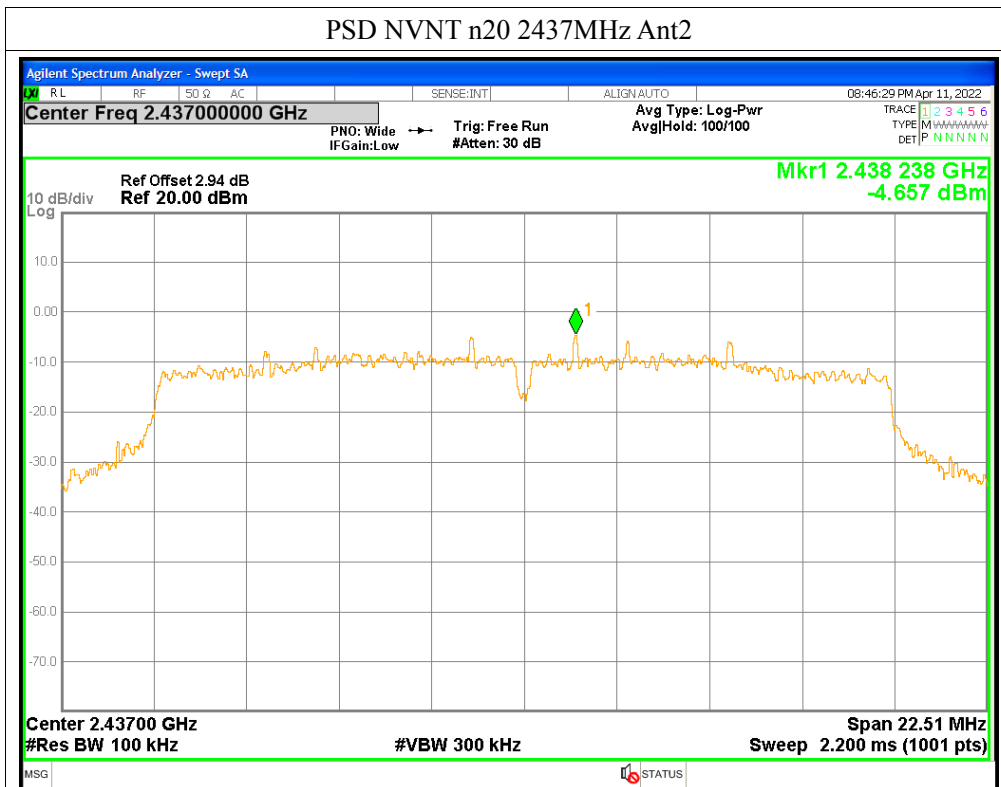
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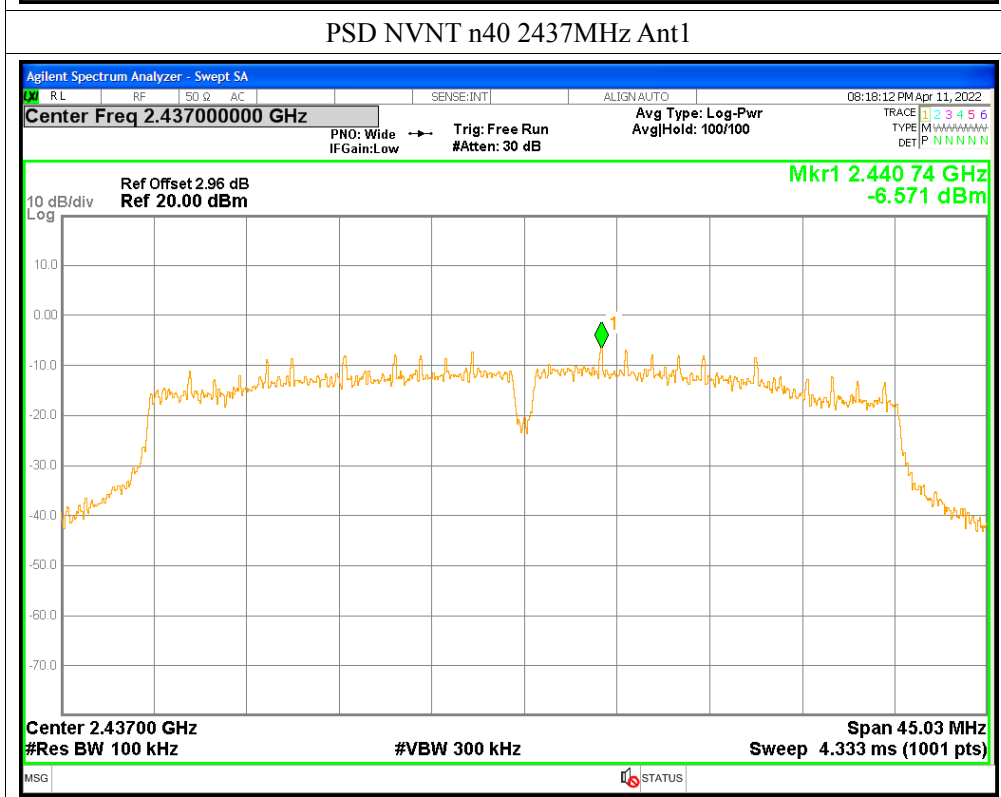
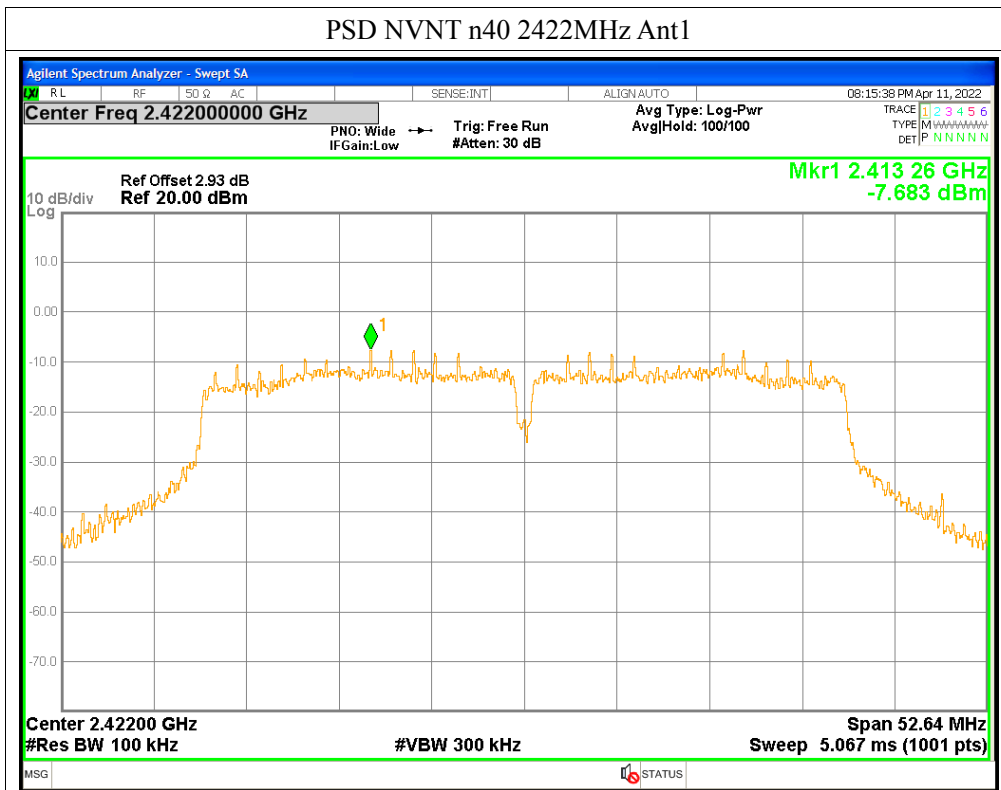


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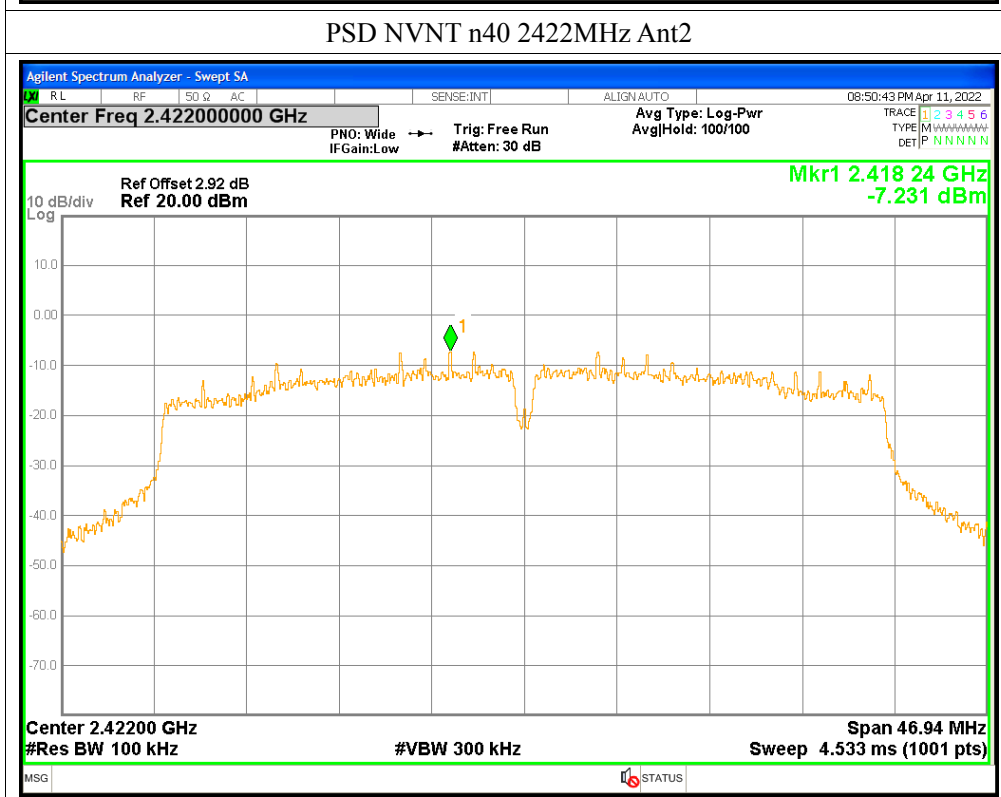
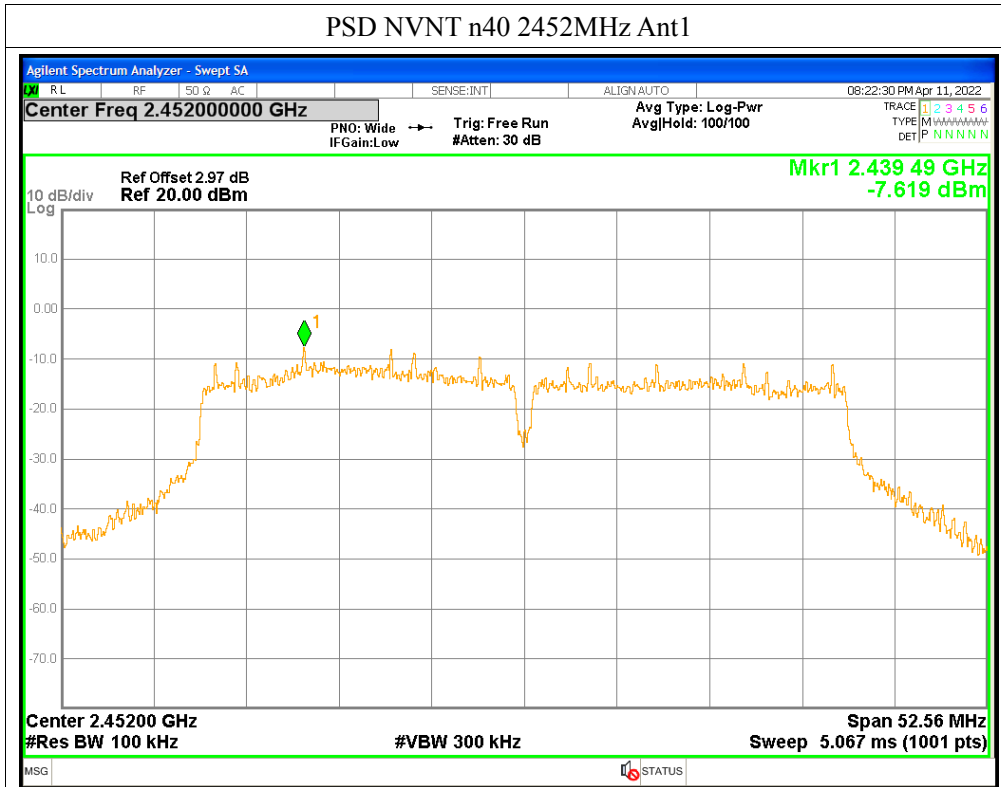
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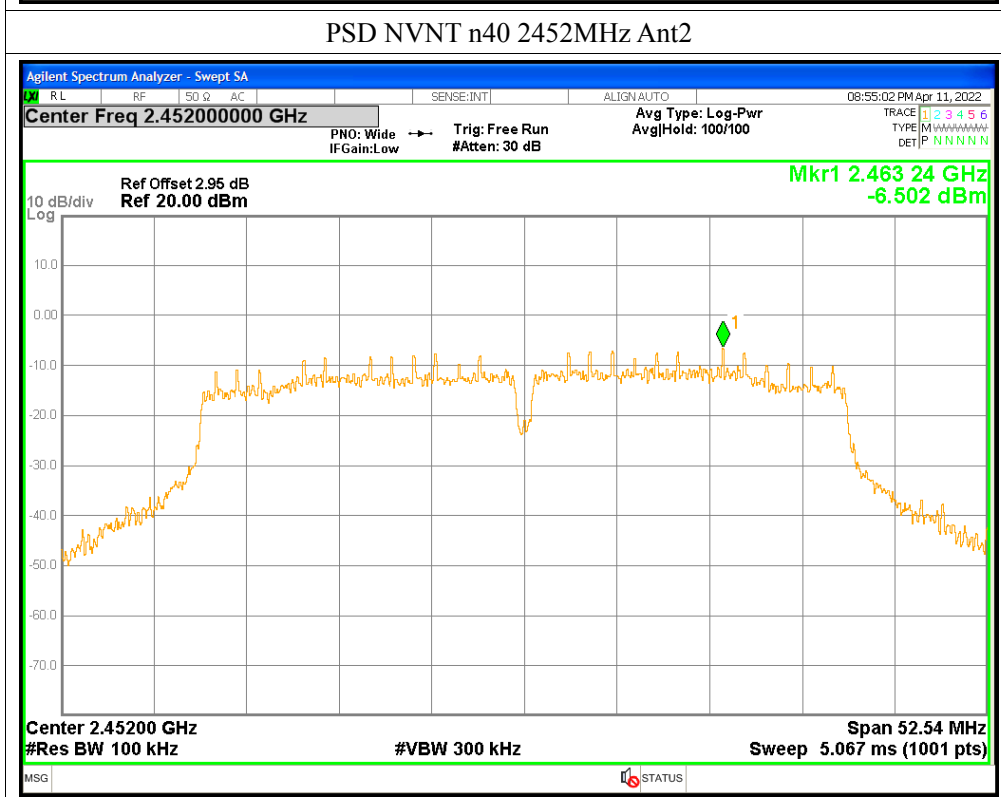
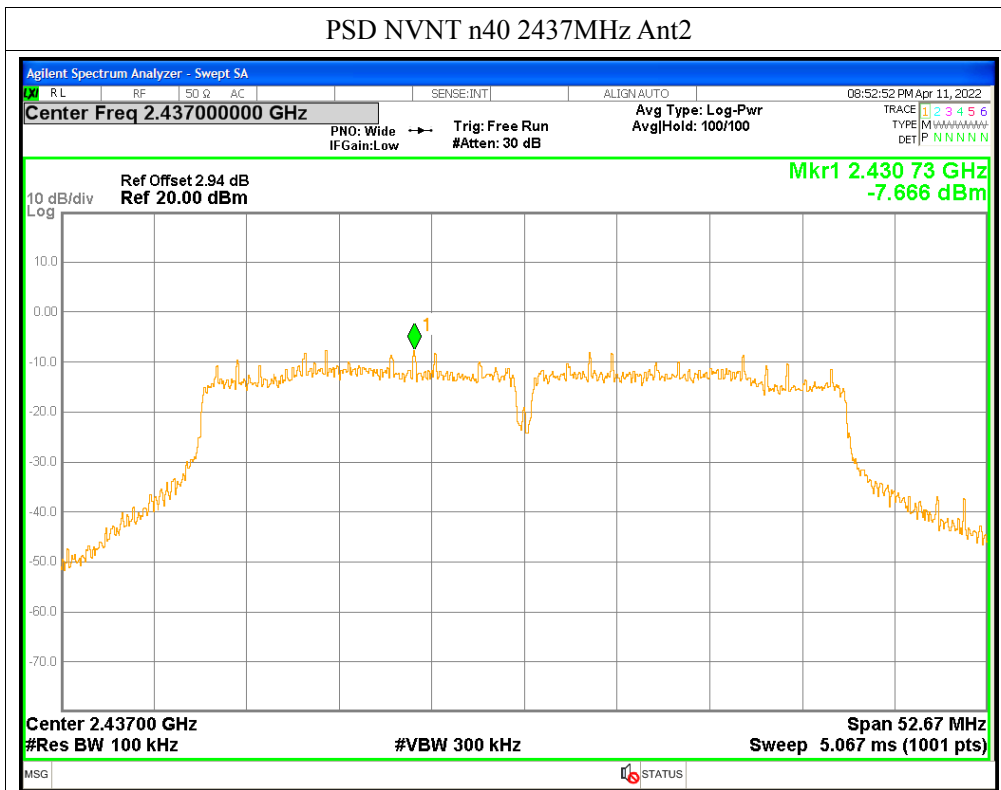


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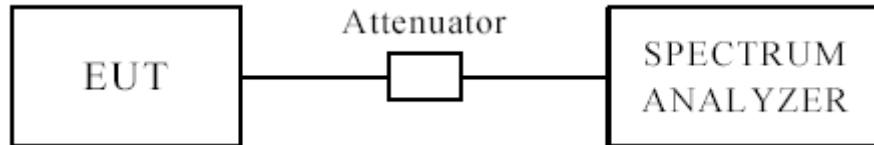


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## 10 Out of Band Measurement

### 10.1 Test Setup for band edge



**The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup**

### 10.2 Limits of Out of Band Emissions Measurement

1. Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

### 10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

### 10.4 Test Result

Please see next pages

Please see next pages

Note: 1. for band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. Two antennas (ANT1 and ANT2) were tested and only the worst case was recorded in the test report. ANT2 was the worst case.

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For 802.11b mode

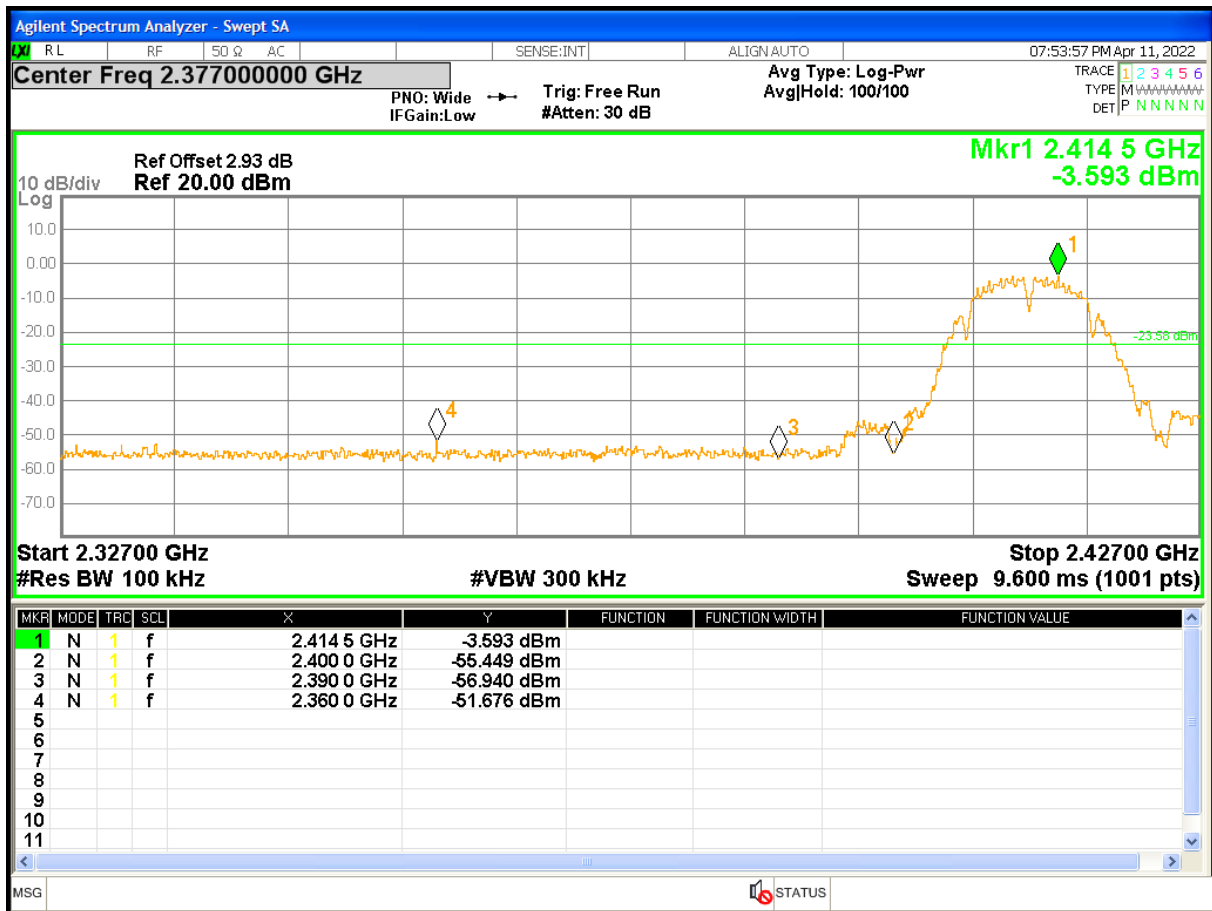
CH01 at 1Mbps

Ant1

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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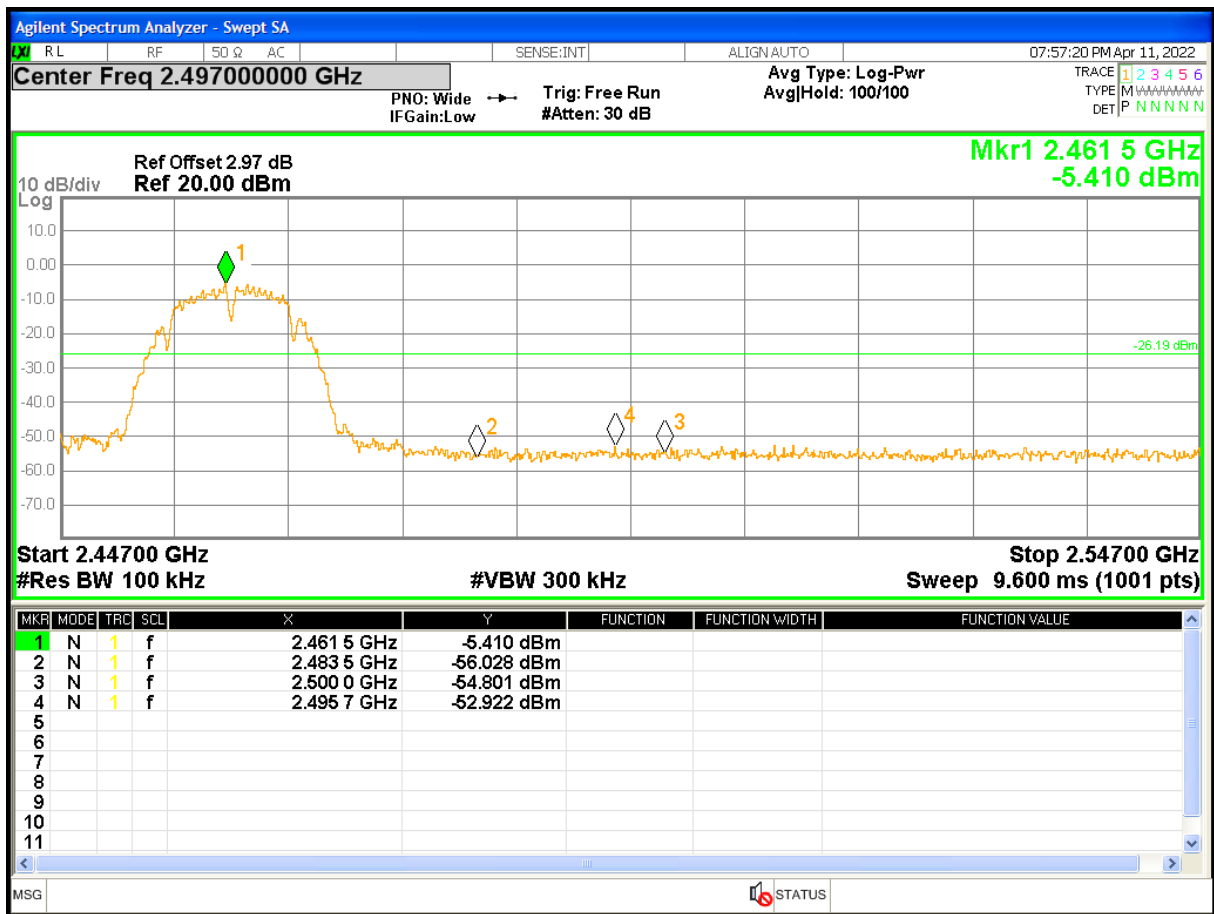
CH11 at 1Mbps

Ant1

**10.4 Band-edge Measurement**

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



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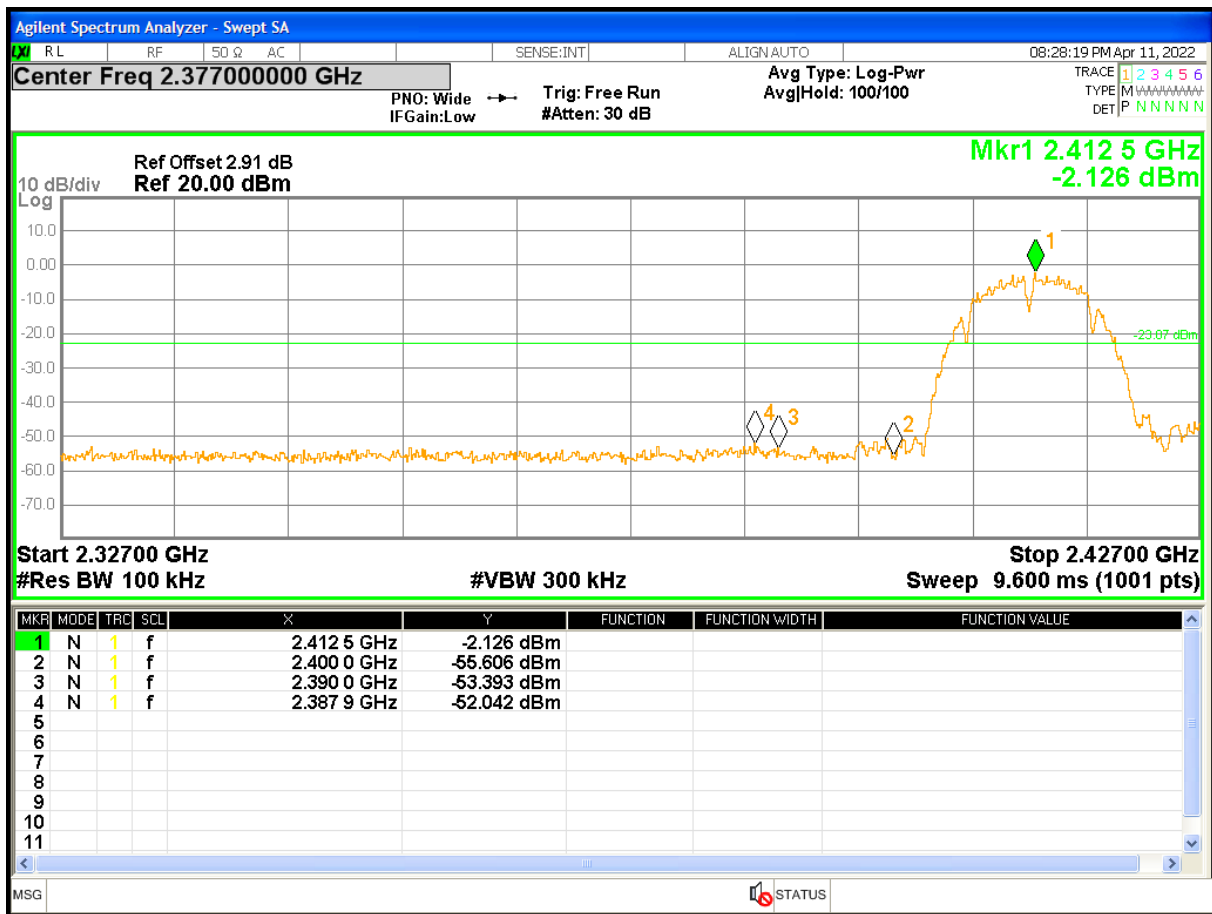
CH01 at 1Mbps

Ant2

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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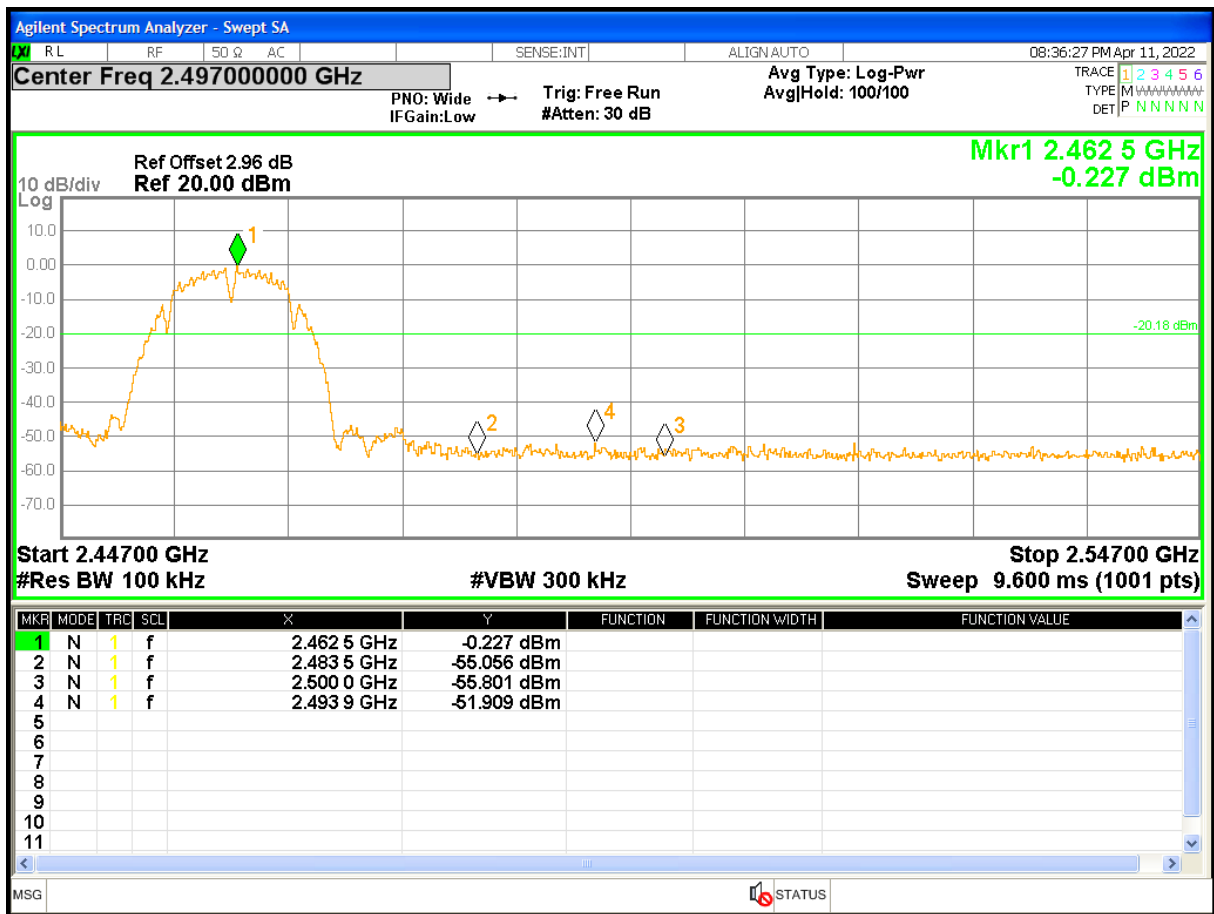
CH11 at 1Mbps

Ant2

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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For 802.11g mode

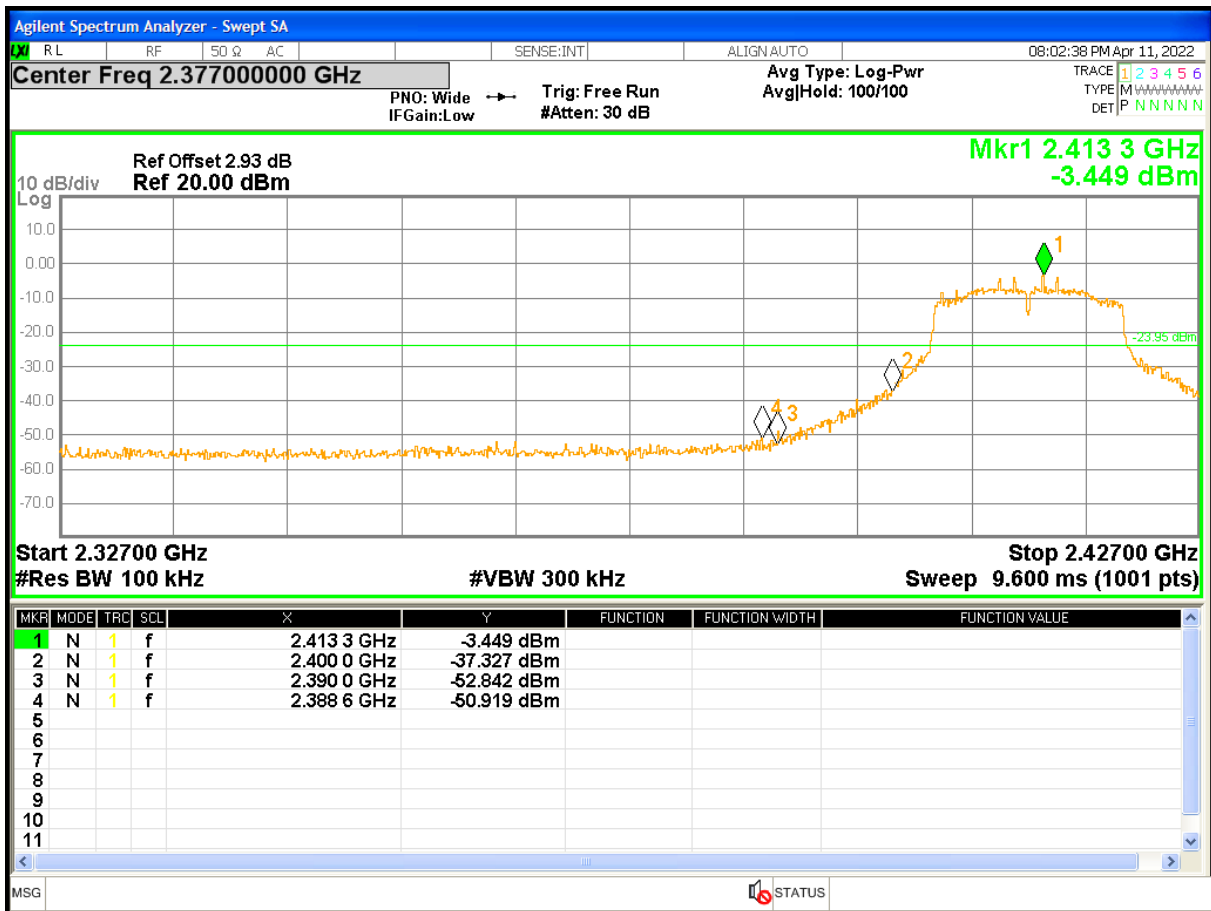
CH01 at 6Mbps

Ant1

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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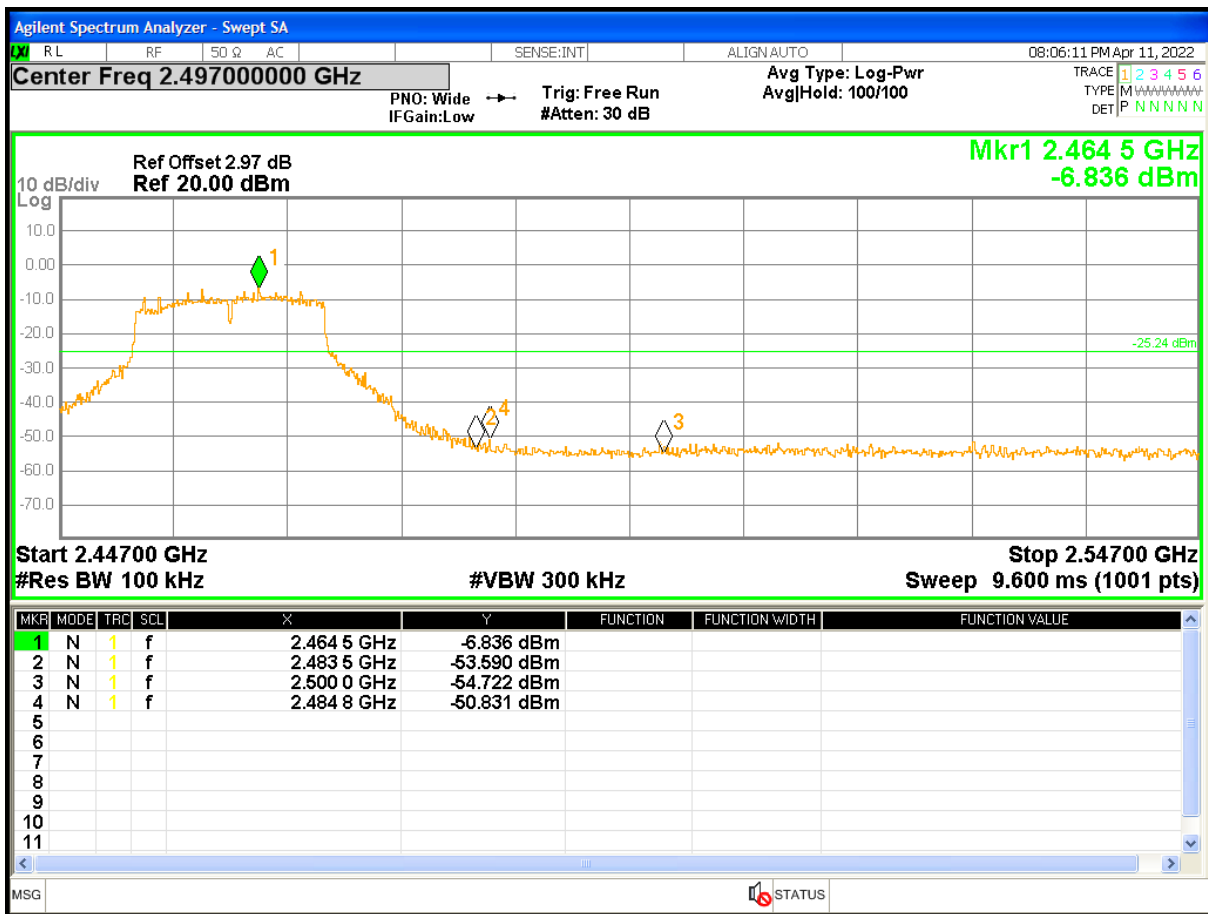
CH11 at 6Mbps

Ant1

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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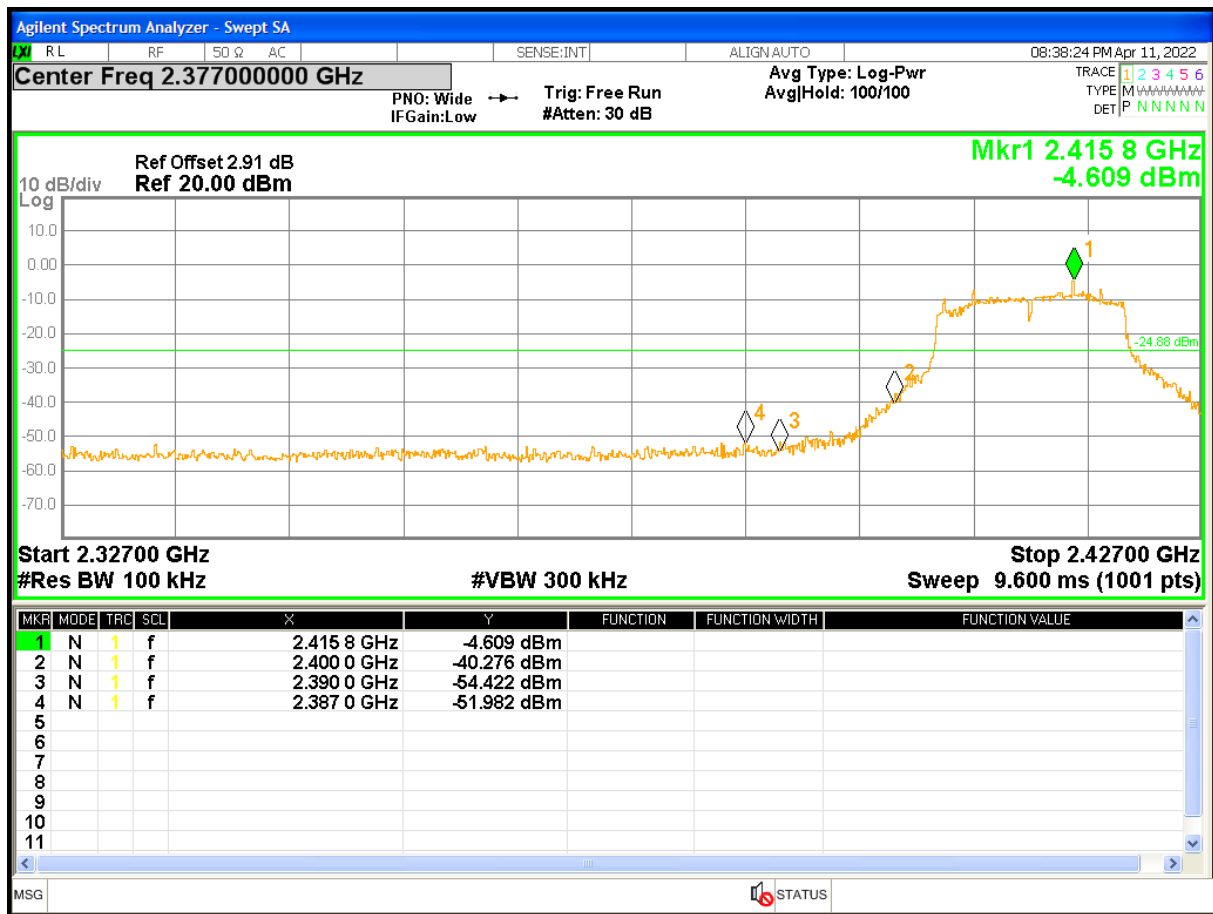
CH01 at 6Mbps

Ant2

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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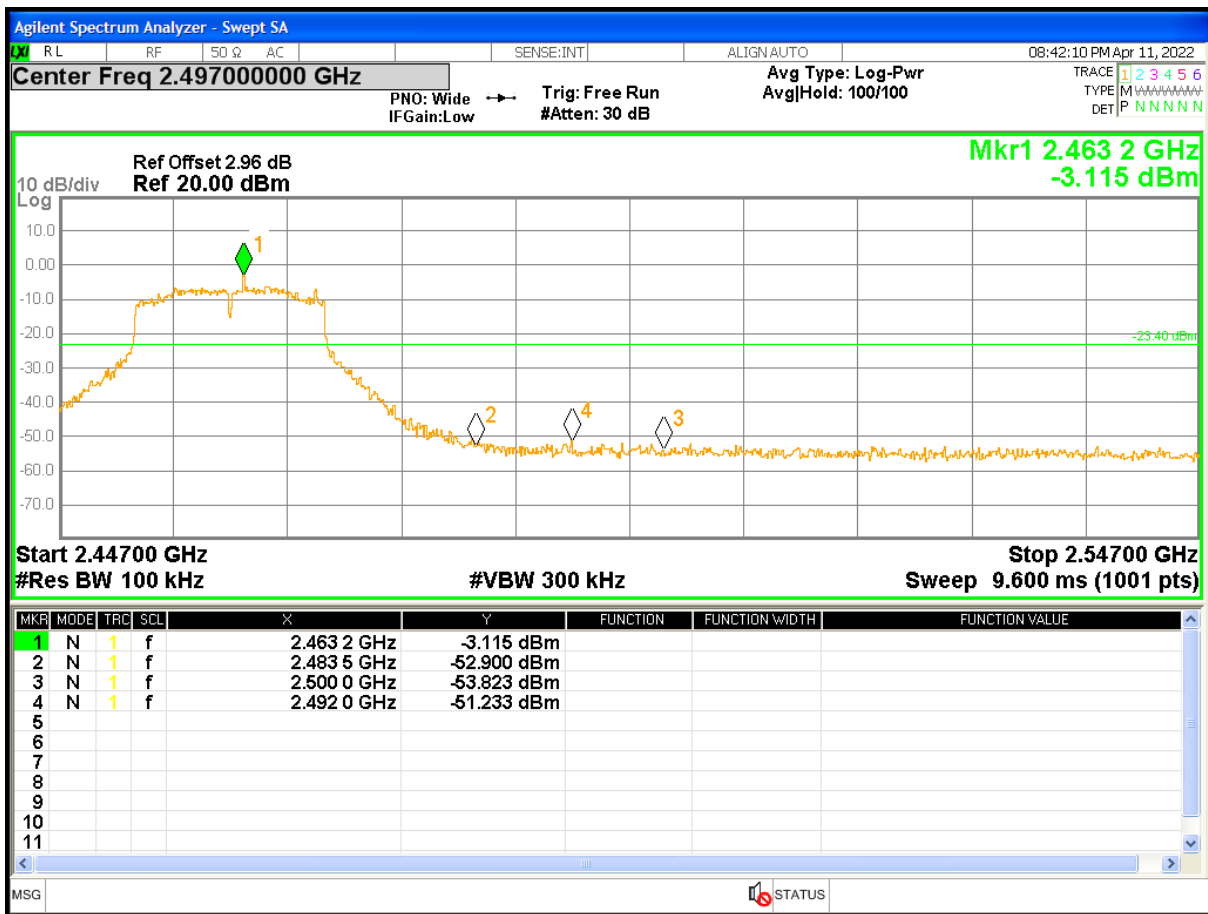
CH11 at 6Mbps

Ant2

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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For 802.11n (HT20) mode

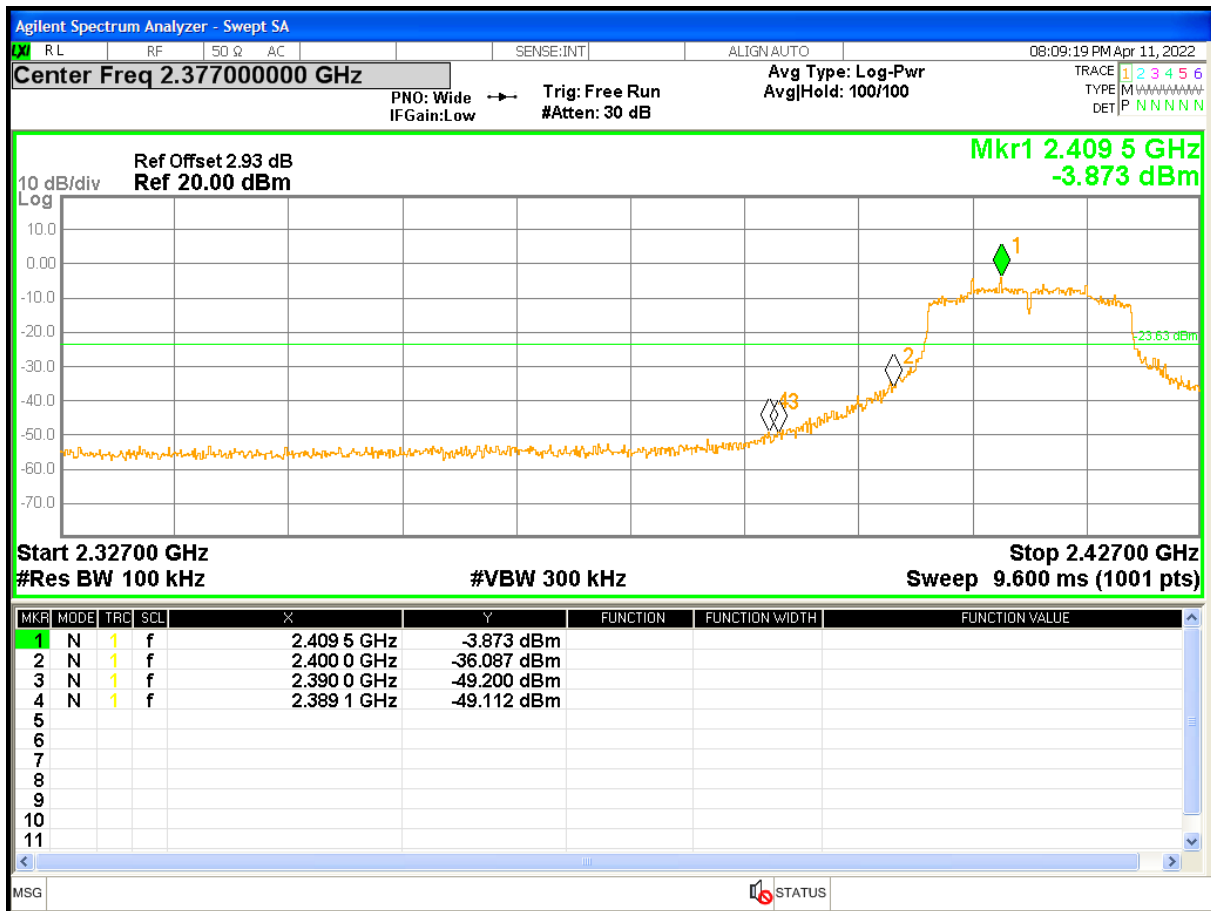
CH01 at mcs0

Ant1

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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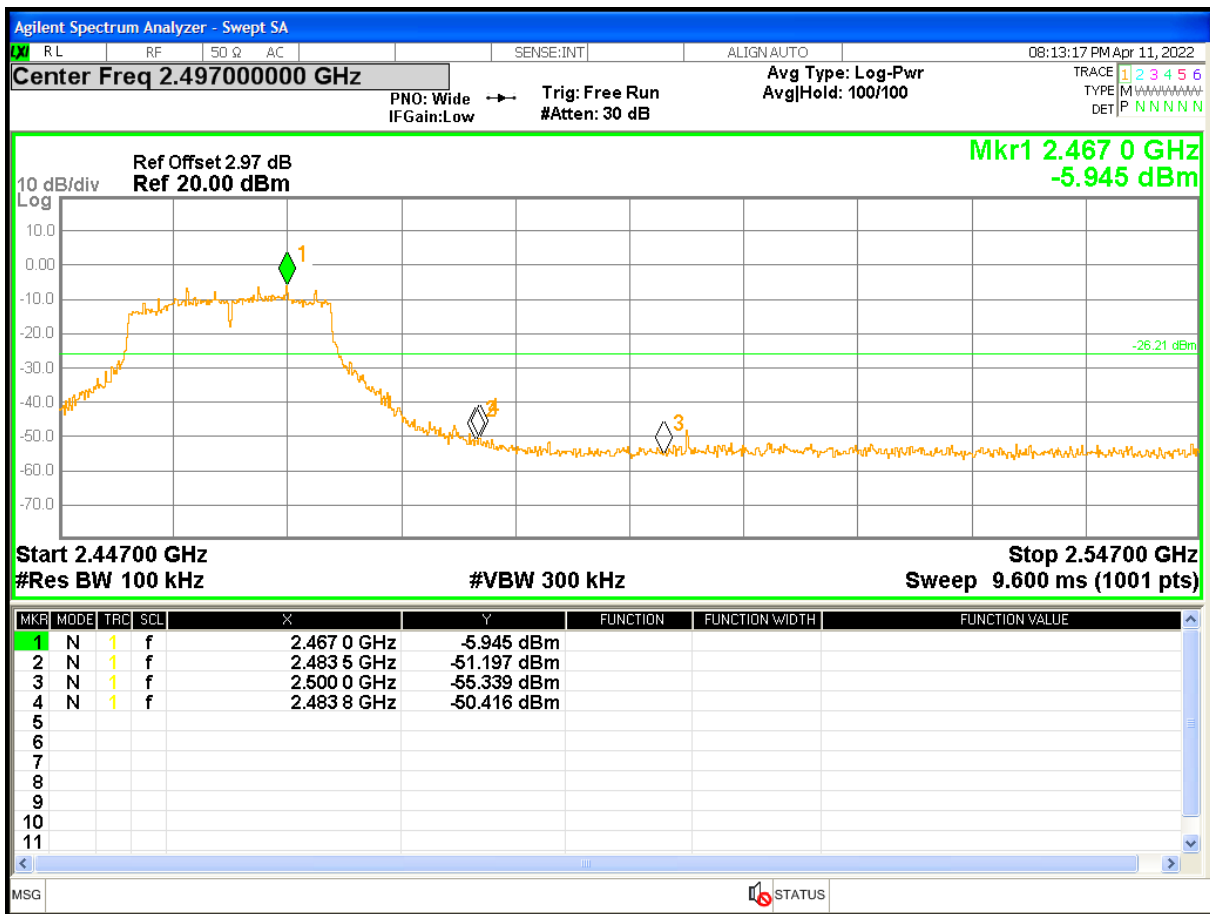
CH11 at mcs0

Ant1

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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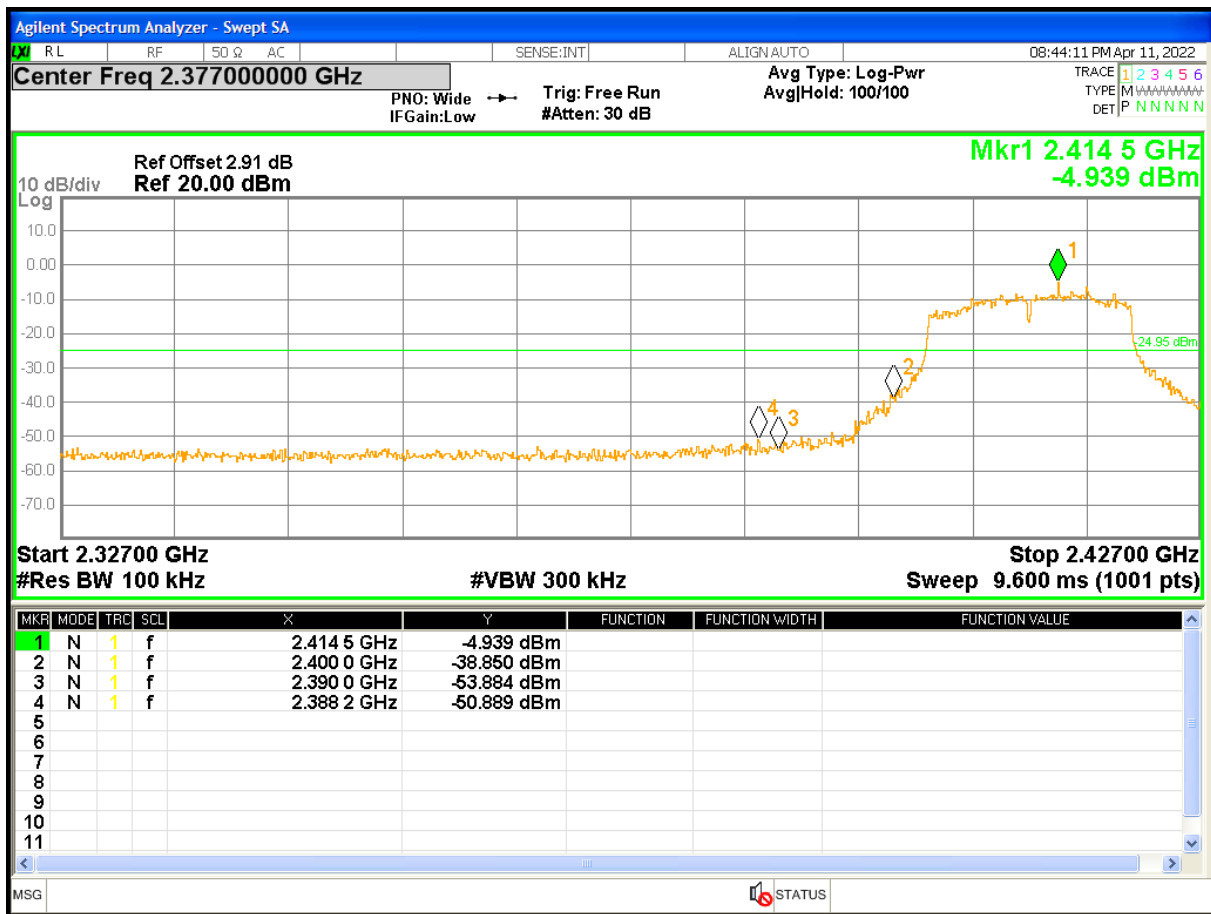
CH01 at mcs0

Ant2

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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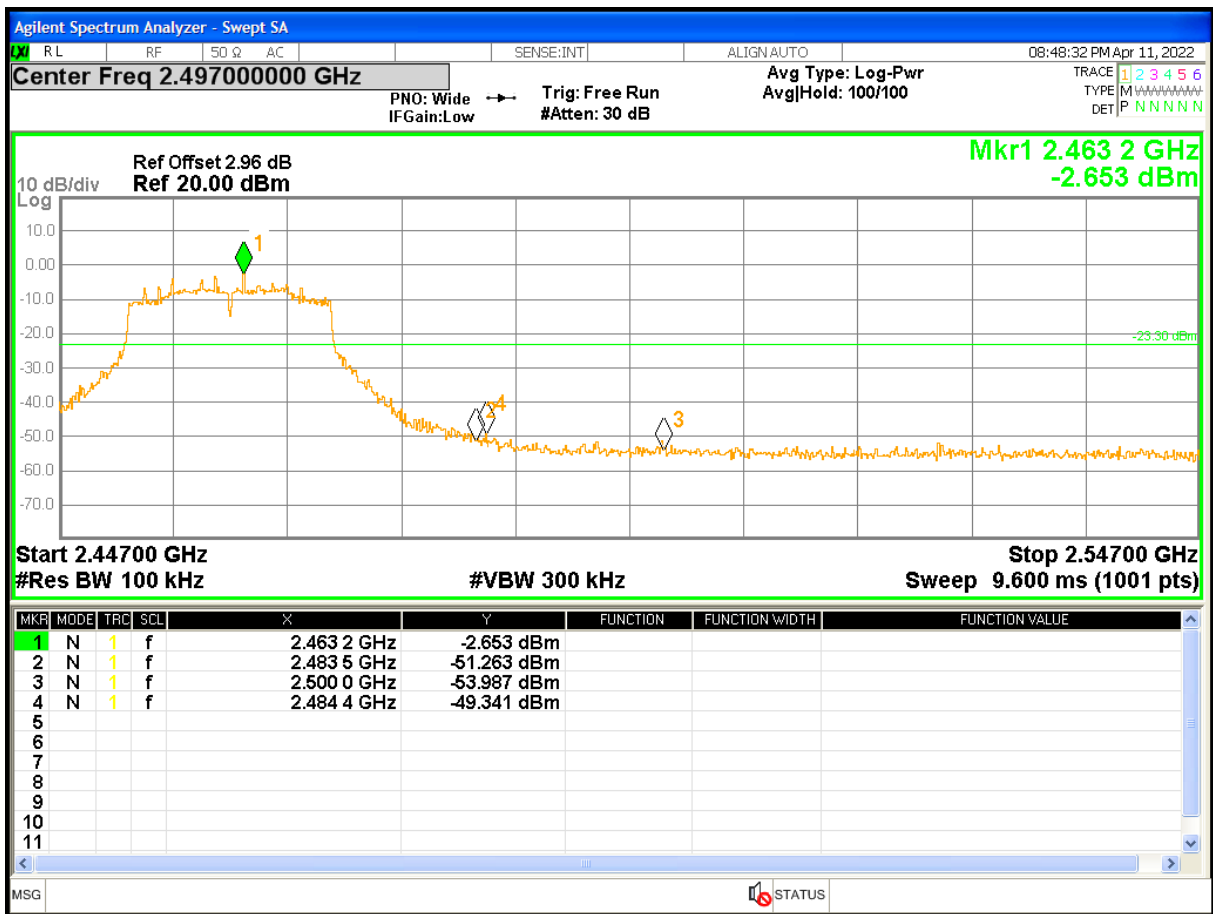
CH11 at mcs0

Ant2

10.4 Band-edge Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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For 802.11n (HT40) mode

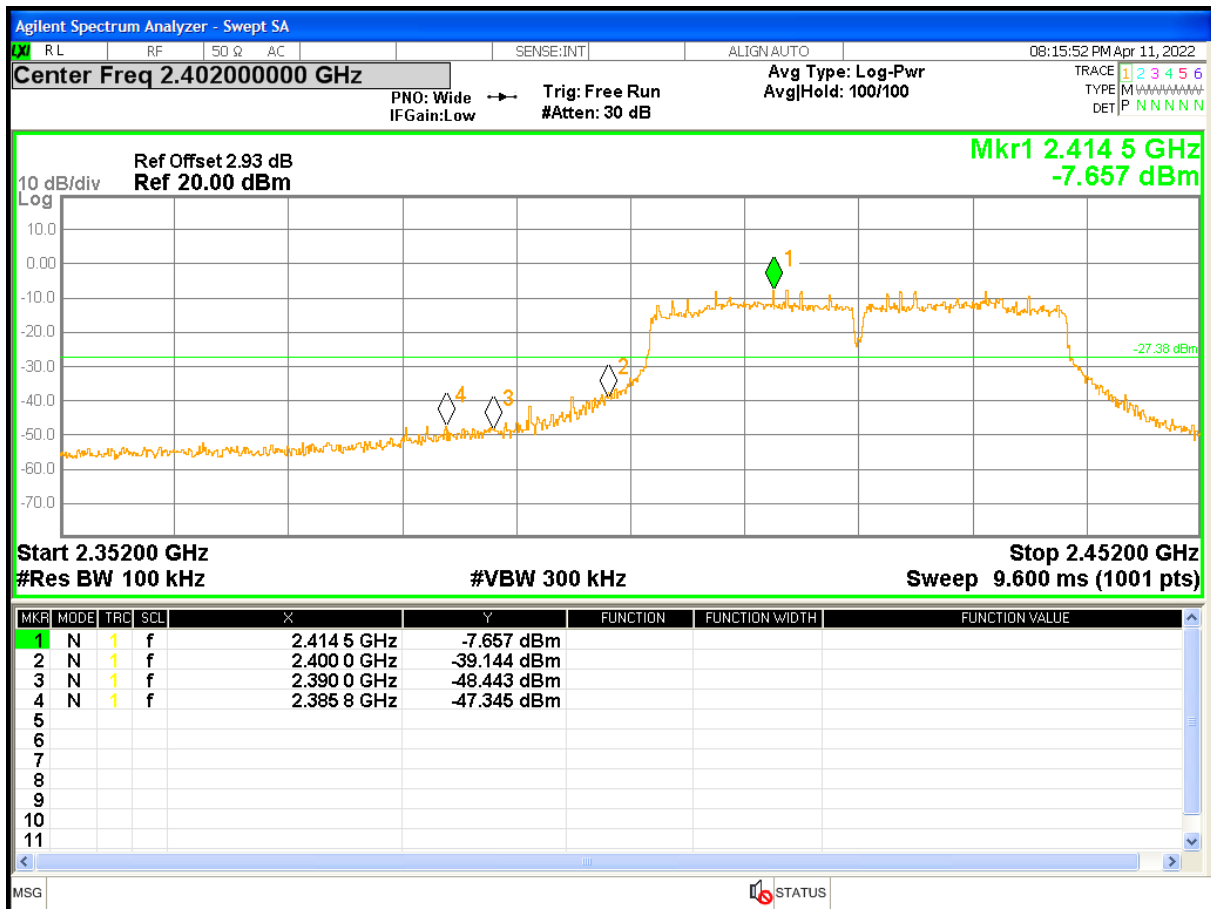
CH03 at msc0

Ant1

10.4 Band-edge and Restricted band Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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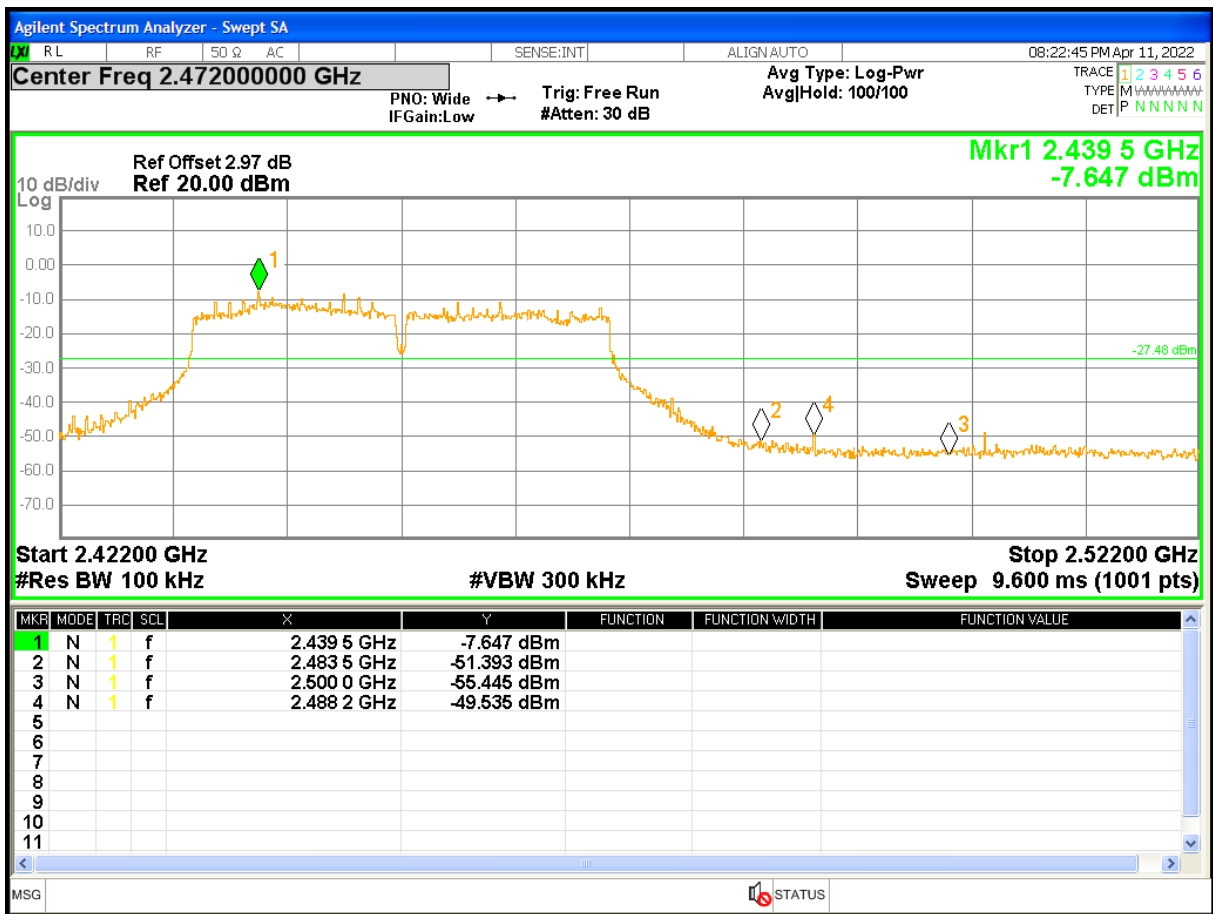
CH09 at msc0

Ant1

10.4 Band-edge and Restricted band Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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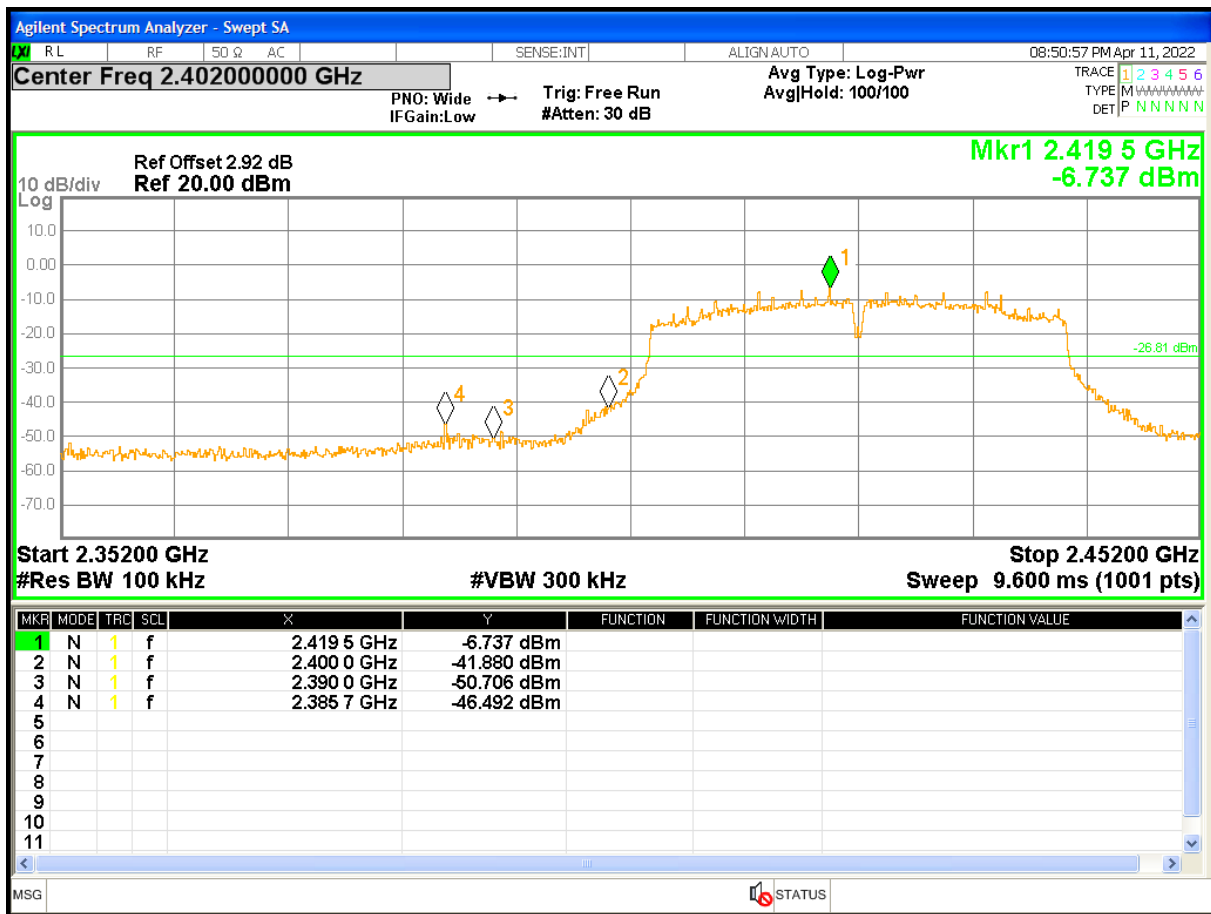
CH03 at msc0

Ant2

10.4 Band-edge and Restricted band Measurement

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



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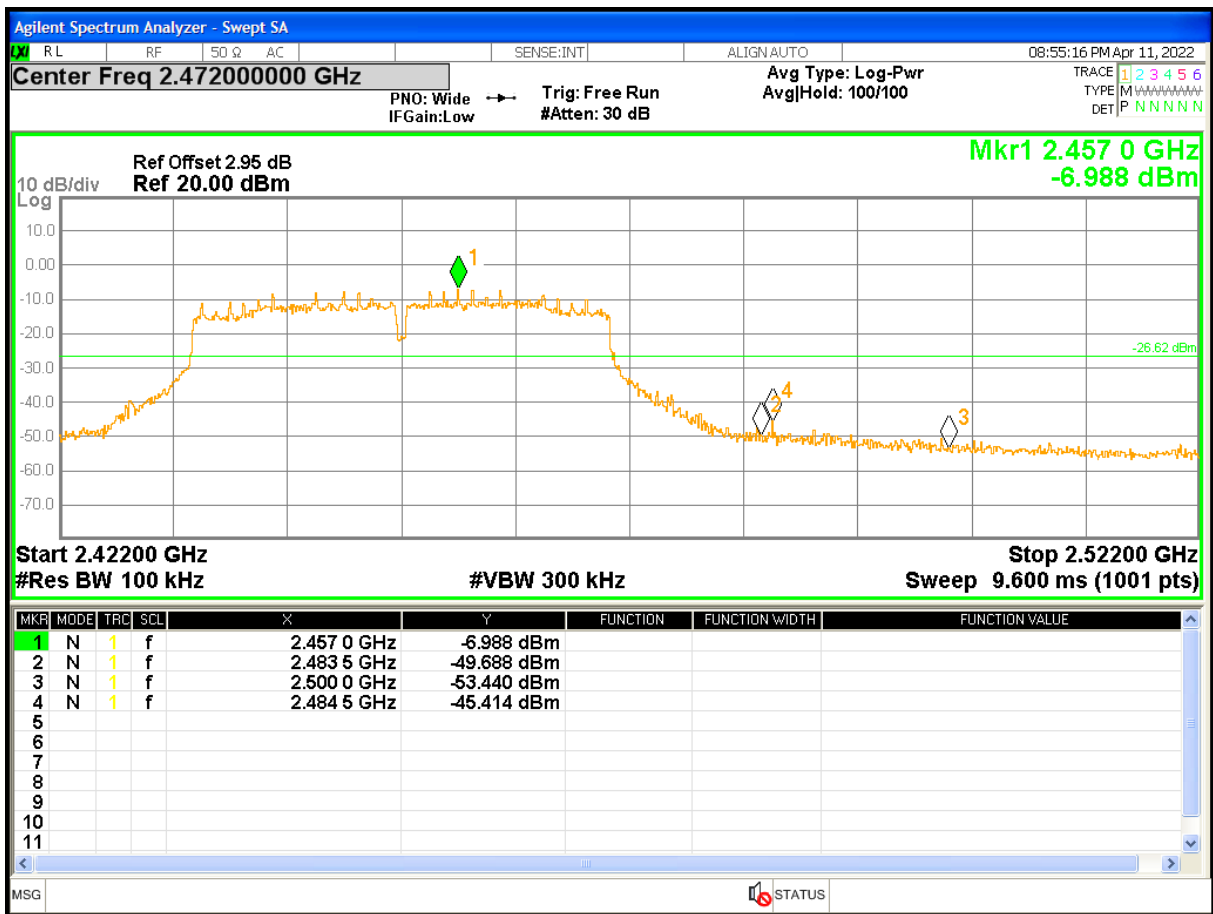
CH09 at msc0

Ant2

**10.4 Band-edge and Restricted band Measurement**

EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

**Test Figure:**



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**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	47.28	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	43.61	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	48.56	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11b mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	44.02	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	49.23	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11g mode, Horizontal				
2390	PK (dB $\mu$ V/m)	45.73	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	56.18	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	40.26		54(dB $\mu$ V/m)
802.11g mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	52.43	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

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**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	50.21	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
802.11n HT20 mode, Low Channel, Horizontal				
2390	PK (dB $\mu$ V/m)	47.05	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	56.93	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	42.37		54(dB $\mu$ V/m)
802.11n HT20 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	53.85	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	39.76		54(dB $\mu$ V/m)

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**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Vertical				
2390	PK (dB $\mu$ V/m)	53.15	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	39.27		54(dB $\mu$ V/m)
802.11n HT40 mode, Low Channel Horizontal				
2390	PK (dB $\mu$ V/m)	51.65	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

**10.5 Restricted band Measurement**

EUT	AIOJET		Model	AIOJet G1P
Mode	Keeping Transmitting		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Vertical				
2483.5	PK (dB $\mu$ V/m)	63.46	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	49.67		54(dB $\mu$ V/m)
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dB $\mu$ V/m)	57.81	Limit	74(dB $\mu$ V/m)
	AV (dB $\mu$ V/m)	43.29		54(dB $\mu$ V/m)

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## **11.0 Antenna Requirement**

### **11.1 Standard Applicable**

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **11.2 Antenna Connected construction**

Two PCB antennas used. The gain of the antennas is 2.0dBi maximum for each one. (Get from the antenna specification provided the applicant)

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## 12.0 FCC ID Label

### FCC ID: 2A3BL-AIOJETG1P

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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### 13.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



**Photographs – EUT**

Please refer test report TW2203156-01E

**-End of the report-**

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