

Report No.: File reference No.:	TW2203156-03E 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 Terry long 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

SHENZHEN TIMEWAY TESTING LABORATORIES. Name: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Address: 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:	

Description of EUT 1.3

1	
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 Nur	mber: 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

Submitted Sample: 2 Samples 1.4

- 1.5 Test Duration 2022-03-09 to 2022-04-14
- Test Uncertainty 1.6

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

Andy -Xing

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
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

Standard	Test Type	Result	Notes
CC Part 15, Paragraph15.203	Antenna Requirement	Pass	Complies
CC Part 15, Paragraph15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

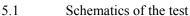
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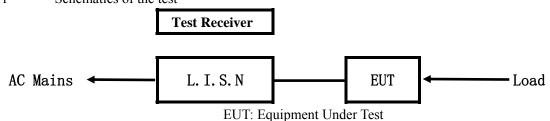
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5.0 Power Line Conducted Emission Test



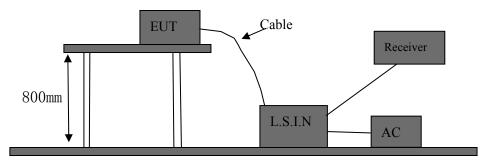


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/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	Limits (dB µ V)				
(MHz)	Quasi-peak Level	Average Level			
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*			
$0.50~\sim~5.00$	56.0	46.0			
$5.00~\sim~30.00$	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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Ρ

Р

Ρ

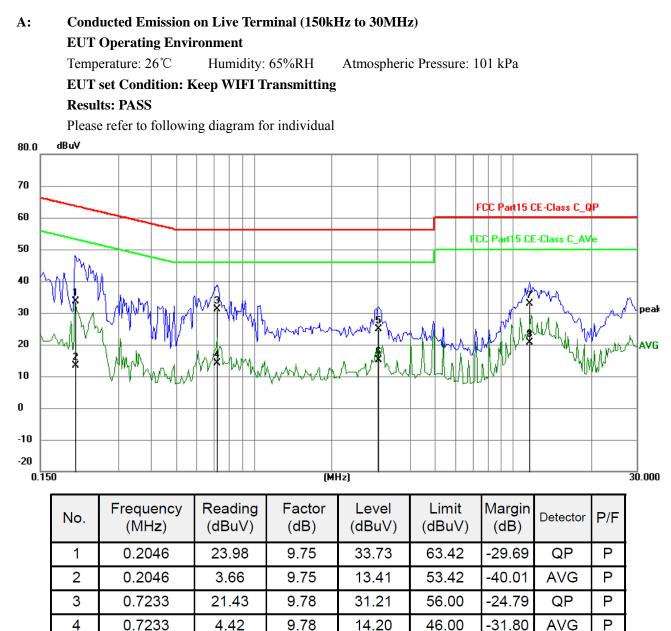
Ρ

QP

AVG

QP

AVG



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5

6

7

8

3.0195

3.0195

11.6151

11.6151

15.06

5.39

22.58

10.39

9.84

9.84

10.23

10.23

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24.90

15.23

32.81

20.62

56.00

46.00

60.00

50.00

-31.10

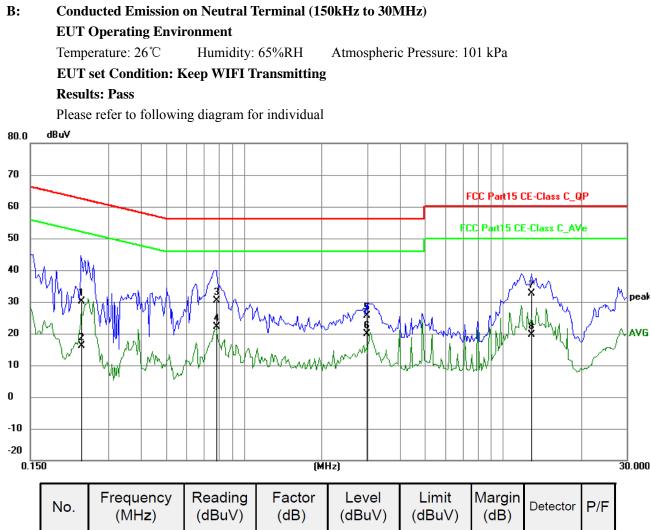
-30.77

-27.19

-29.38

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No.	Frequency (MHz)	(dBuV)	Factor (dB)	Level (dBuV)	(dBuV)	lvlargin (dB)	Detector	P/F
1	0.2358	20.45	9.75	30.20	62.24	-32.04	QP	Ρ
2	0.2358	<mark>6.</mark> 31	9.75	16.06	52.24	-36.18	AVG	Ρ
3	0.7857	20.64	9.78	30.42	56.00	-25.58	QP	Ρ
4	0.7857	12.46	9.78	22.24	46.00	-23.76	AVG	Ρ
5	2.9814	15.87	9.84	25.71	56.00	-30.29	QP	Ρ
6	2.9814	10.03	9.84	19.87	46.00	-26.13	AVG	Р
7	12.8709	22.35	10.29	32.64	60.00	-27.36	QP	Р
8	12.8709	9.38	10.29	19 <mark>.</mark> 67	50.00	-30.33	AVG	Р

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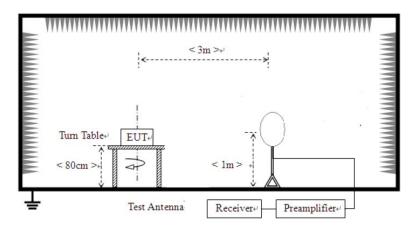


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- 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. F 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



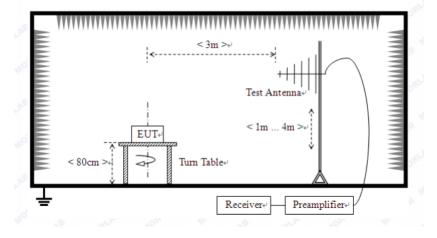
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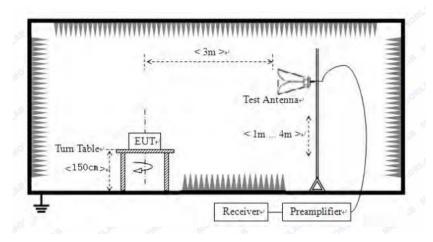
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For radiated emissions from 30MHz to1GHz



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 minit on Faragraph 15.209							
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)					
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)					
0.490-1.705	3	20log(24000/F(kHz)) +40log (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					

Frequencies in restricted band are complied to limit on Paragraph 15.209

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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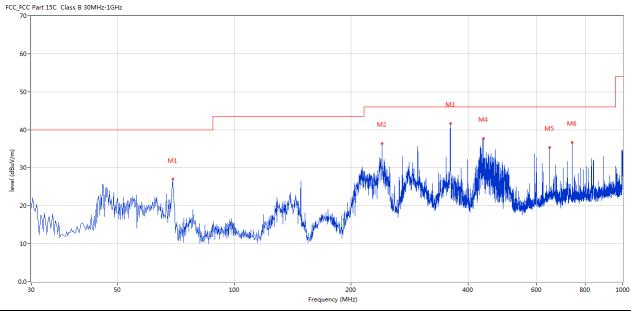
Test result General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**

Results:

Pass



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
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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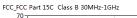
Test result General Radiated Emission Data and Harmonics Radiated Emission Data

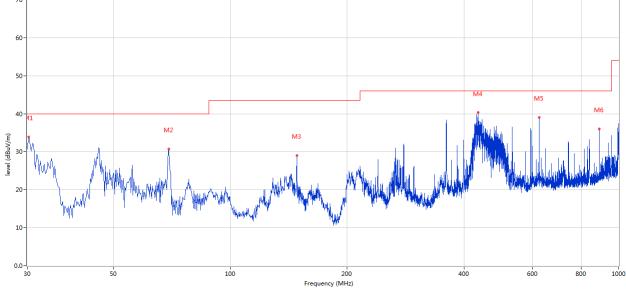
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results:

Pass





No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
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 μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4824.00	58.23 (PK) / 45.95 (AV)	Н	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 μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4874.00	57.39 (PK) / 44.85 (AV)	Н	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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Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@ $3m$ (dB μ /m)
4924	56.18 (PK) / 43.75 (AV)	Н	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

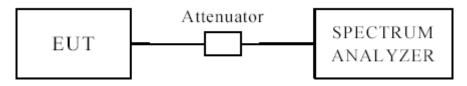
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7.0 6dB Bandwidth Measurement7.1 Test Setup



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) \ge 3 x 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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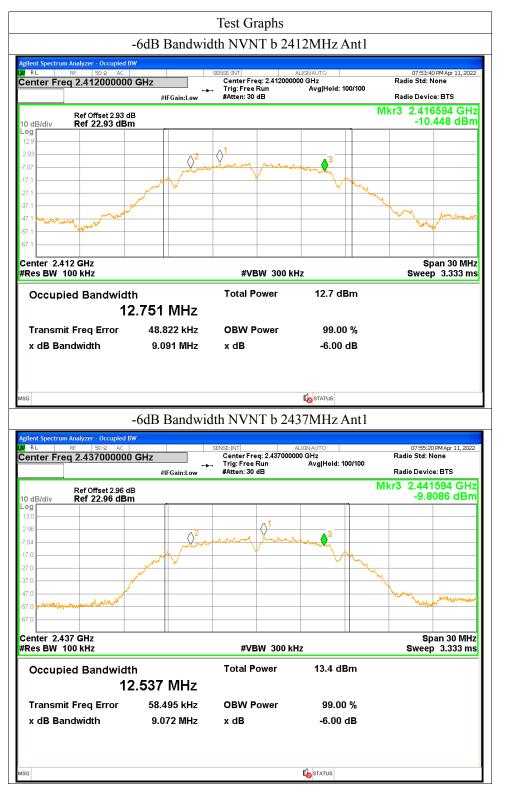


6dB Occupied Bandwidth

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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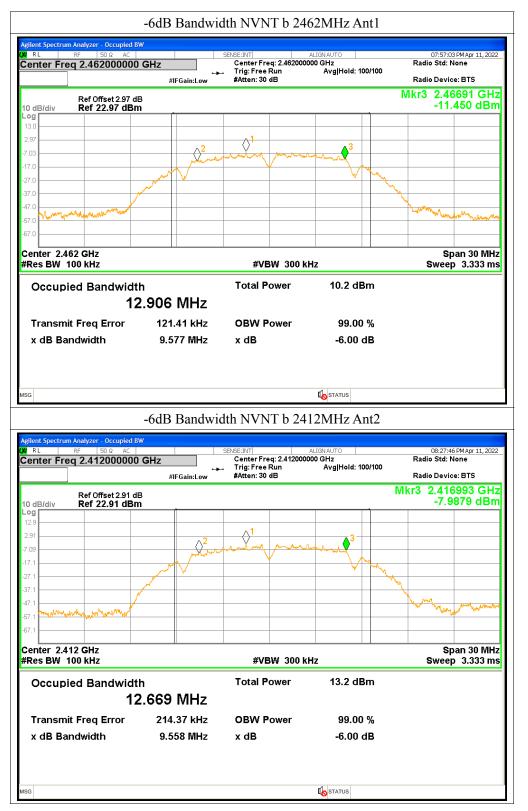




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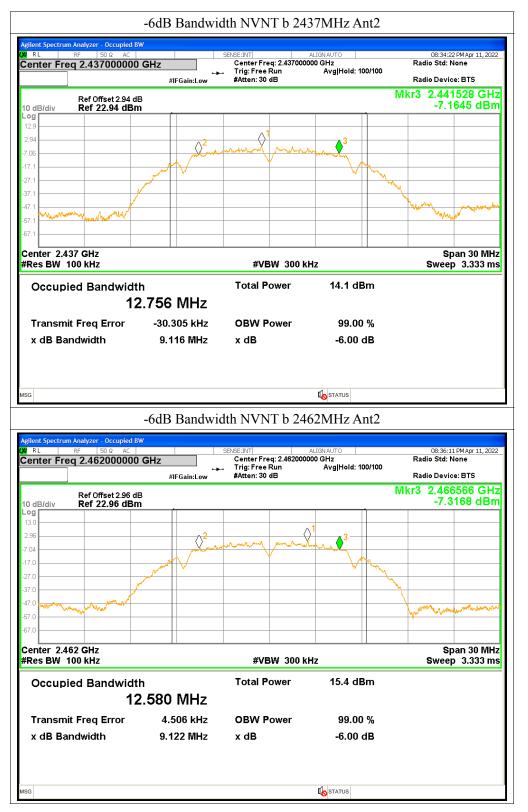




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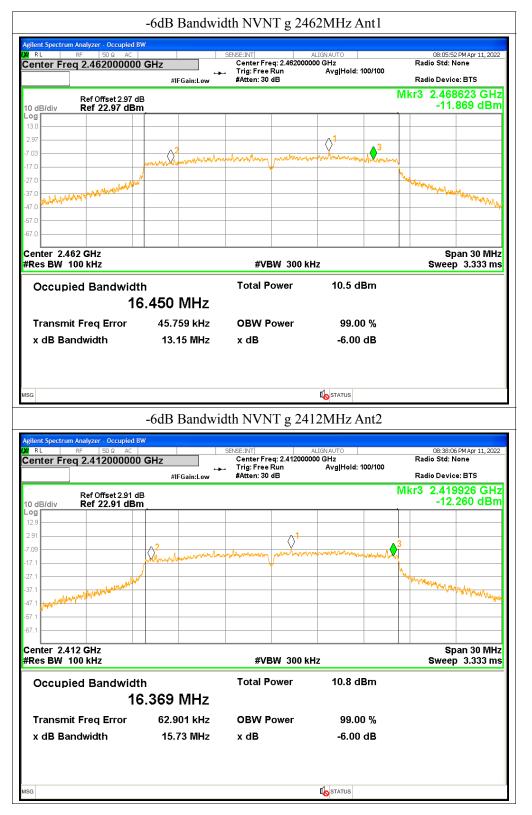
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Ient Spectrum Analyzer - Occupied BV RL RF 50 Ω AC enter Freq 2.412000000		SENSE:INT Center Freq: 2.412000 , Trig: Free Run #Atten: 30 dB	08:02:19 PMApr 11,2022 Radio Std: None Radio Device: BTS	
Ref Offset 2.93 dE dB/div Ref 22.93 dBm				Mkr3 2.41785 GHz -11.449 dBm
	• 			
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enter 2.412 GHz				Span 30 MHz
Res BW 100 kHz		#VBW 300 k	Hz	Sweep 3.333 ms
Occupied Bandwidth	h	Total Power	12.3 dBm	
•	 .365 MHz			
		0.014/	00.00.1/	
Transmit Freq Error x dB Bandwidth	7.721 kHz 11.68 MHz	OBW Power x dB	99.00 % -6.00 dB	
	11.00 1012	X GB	0.00 48	
	-6dB Bandwid	dth NVNT g 24	37MHz Ant1	
RL RF 50 Ω AC	N	SENSE:INT	ALIGN AUTO	
RL RF 50 Ω AC	GHz	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGN AUTO	Radio Std: None
RL RF 50 Ω AC enter Freq 2.437000000	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000	ALIGN AUTO	Radio Std: None Radio Device: BTS
RL RF 50 Ω AC Priter Freq 2.437000000 Ref Offset 2.96 dE Ref Offset 2.96 dE dB/div Ref 22.96 dBm	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGN AUTO	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz
RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.96 dE dB/div Ref 22.96 dBm g	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGN AUTO	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz
RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.96 dE Ref Offset 2.96 dE Ref 22.96 dBm g	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGNAUTO 000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz
RL RF 50 Ω AC enter Freq 2.437000000 Ref Offset 2.96 dB Ref Offset 2.96 dB dB/div Ref 22.96 dB Ref 2.96 dB 9	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGN AUTO	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz
RL RF 50 Ω AC Pinter Freq 2.437000000 Ref Offset 2.96 dB Ref Offset 2.96 dB dB/div Ref 22.96 dB Ref 2.96 dB 9 0 0 0 0 0 0 0 04 0 0 0	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGNAUTO 000 GHz Avg Hold: 100/100	Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 \u03c0 AC enter Freq 2.437000000 Ref Offset 2.96 dB dB/div Ref 22.96 dBm 9 0 0 0 0 0	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGNAUTO 000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50.2 AC Inter Freq 2.437000000 Ref 0ffset 2.96 dB Ref 22.96 dB B G G G G G G G G G G G G G G G G G G G G G G	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGNAUTO 000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50.2 AC Inter Freq 2.437000000 Ref 0ffset 2.96 dB Ref 22.96 dB B/div Ref 22.96 dB Ref 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGNAUTO 000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50.2 AC enter Freq 2.437000000 Ref 0ffset 2.96 dB Ref 22.96 dB B Ref 22.96 dB Ref 20 B Ref 20 Ref 20 B R R R	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 , Trig: Free Run	ALIGNAUTO 000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 2 AC enter Freq 2.437000000 Ref 0ffset 2.96 dB Ref 22.96 dBm 9	GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 Trig: Free Run #Atten: 30 dB	ALIGNAUTO 1000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 Q AC enter Freq 2.437000000 Ref 0ffset 2.96 dB Ref 22.96 dB g	W GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 - Trig: Free Run #Atten: 30 dB	ALIGNAUTO 1000 GHz Avg Hold: 100/100 1 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 Q AC Parter Freq 2.437000000 Ref Offset 2.96 dB Ref 22.96 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9	W GHz #IFGain:Low 3 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.437000 Trig: Free Run #Atten: 30 dB	ALIGNAUTO 1000 GHz Avg Hold: 100/100	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 Q AC Parter Freq 2.437000000 Ref Offset 2.96 dB Ref 22.96 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9	W GHz #IFGain:Low	SENSE:INT Center Freq: 2.437000 - Trig: Free Run #Atten: 30 dB	ALIGNAUTO 1000 GHz Avg Hold: 100/100 1 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
dB/div Ref 22.96 dBm	W GHz #IFGain:Low 3 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.437000 - Trig: Free Run #Atten: 30 dB	ALIGNAUTO 1000 GHz Avg Hold: 100/100 1 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 Ω AC enter Freq 2.437000000 Ref 0ffset 2.96 dB Ref 22.96 dB dB/div Ref 22.96 dB Ref 22.96 dB g	M GHz #IFGain:Low 3 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT Center Freq: 2.437000 - Trig: Free Run #Atten: 30 dB #VBW 300 k Total Power	ALIGNAUTO 1000 GHz Avg Hold: 100/100 100/100 Avg Hold: 100/100 Avg Hold: 100/100 Av	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RE 007 AC Parter Freq 2.437000000 B/div Ref 075set 2.96 dB Ref 22.96 dBm 9 0 0 0 0 0 0 0 0 0 0 0 0 0	M GHz #IFGain:Low 3 1 2 3 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Center Freq: 2.437000 - Trig: Free Run #Atten: 30 dB #VBW 300 k Total Power OBW Power	ALIGNAUTO 1000 GHz Avg Hold: 100/100 4vg Hold: 1	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm
RL RF 50 2 AC enter Freq 2.437000000 B/div Ref 22.96 dB Ref 22.96 dB Ref 22.96 dB A A A A A A A A A A A A A	M GHz #IFGain:Low 3 1 2 3 1 1 3 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Center Freq: 2.437000 - Trig: Free Run #Atten: 30 dB #VBW 300 k Total Power OBW Power	ALIGNAUTO 1000 GHz Avg Hold: 100/100 4vg Hold: 1	Radio Std: None Radio Device: BTS Mkr3 2.444223 GHz -11.243 dBm

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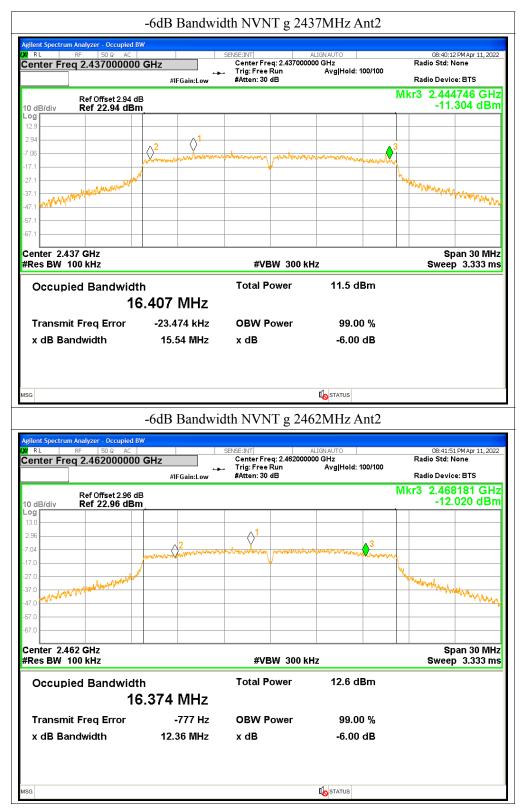




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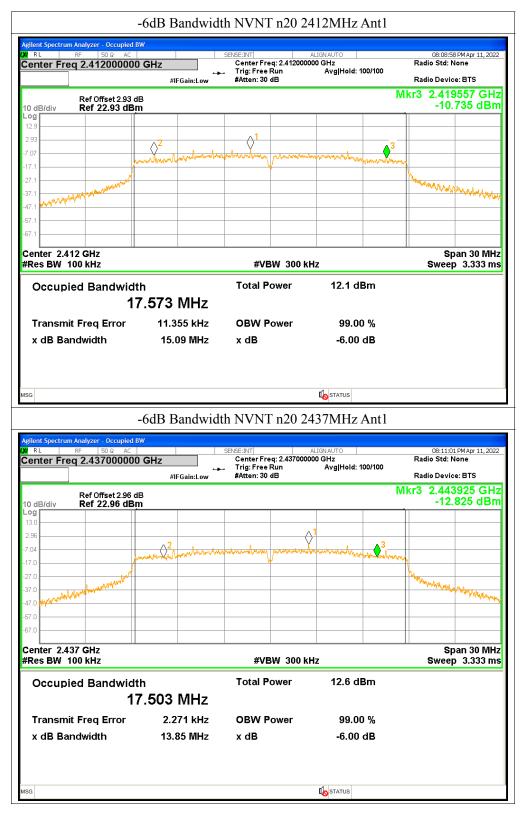




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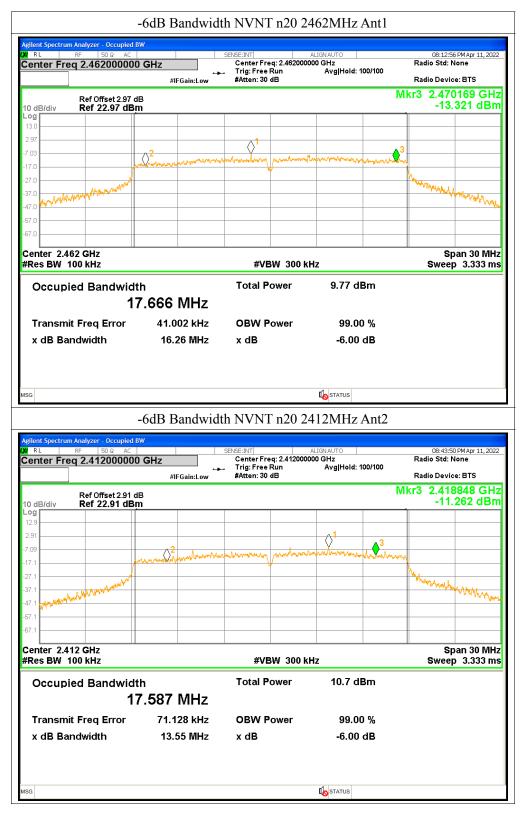




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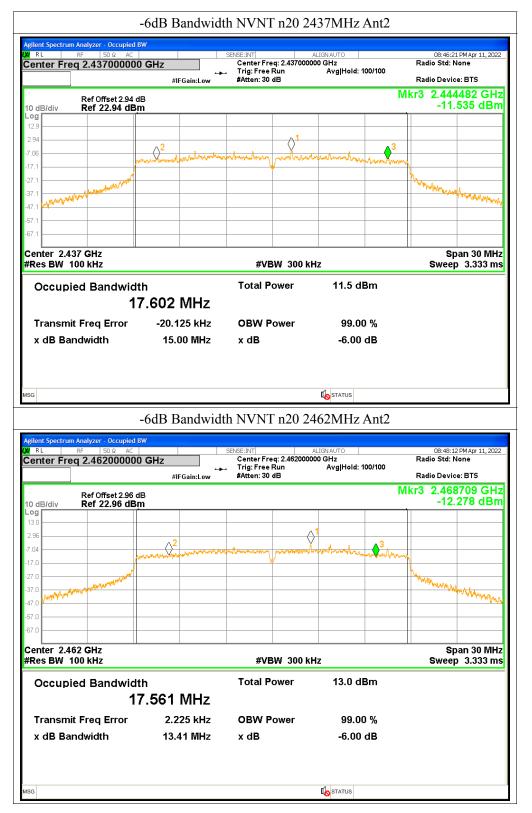




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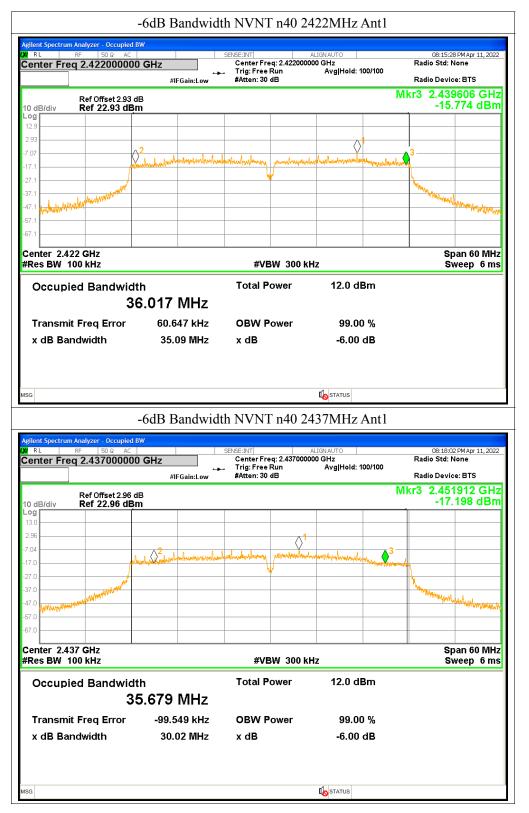


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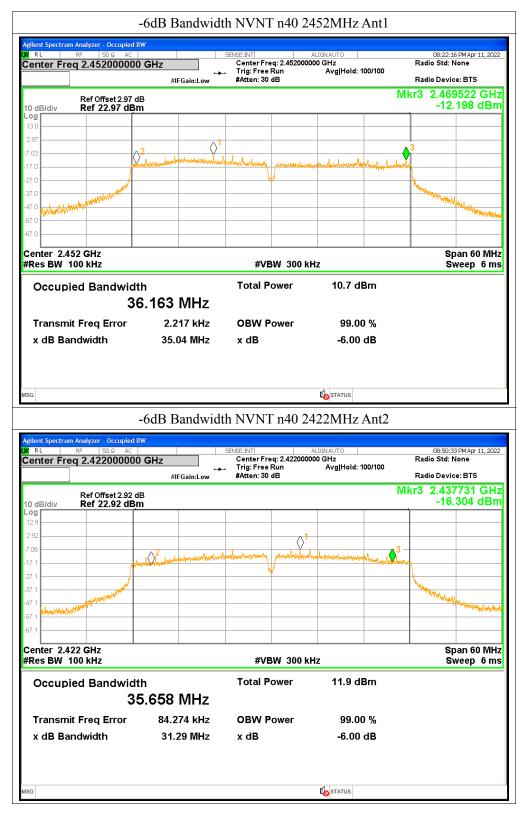




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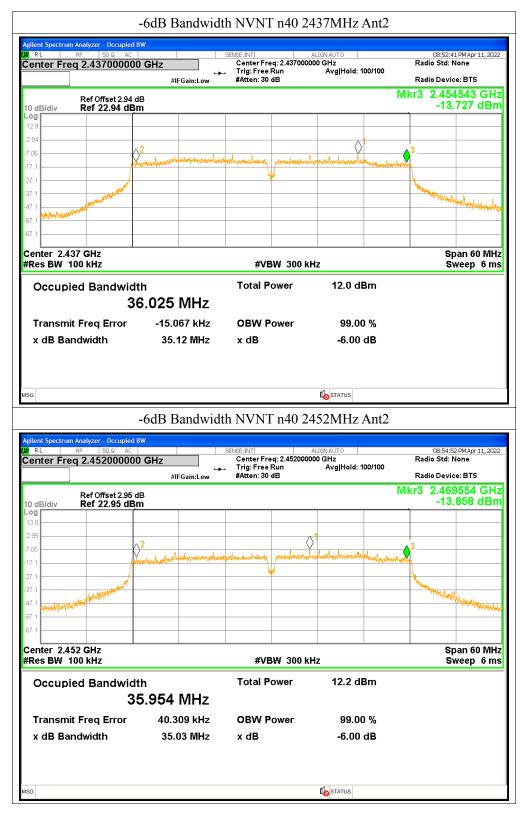




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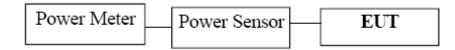


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8. Maximum Output Power 8.1 Test Setup



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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Q ATest Desults



8.4Test Results							
Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
	(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
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	Antenna	Total Power	Limit (dBm)	Verdict
	(MHz)		(dBm)		
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 finial 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:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

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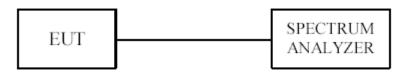
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9. Power Spectral Density Measurement

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 $\leq 8 \text{ dBm/3kHz}$.

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9.4Test Re Mode	Frequency	Antenna	Conducted PSD	Duty Factor	Total PSD	Limit	Verdict
moue	(MHz)	Antonina	(dBm/100kHz)	(dB)	(dBm/100kHz)	(dBm/3kHz)	Vertaiot
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	Antenna	Total PSD	Limit	Verdict
	(MHz)		(dBm/100kHz)	(dBm/3kHz)	
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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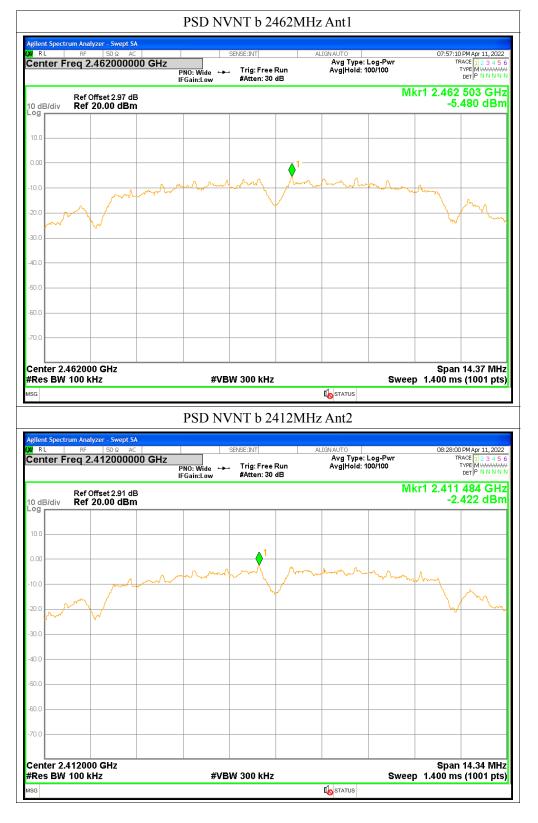




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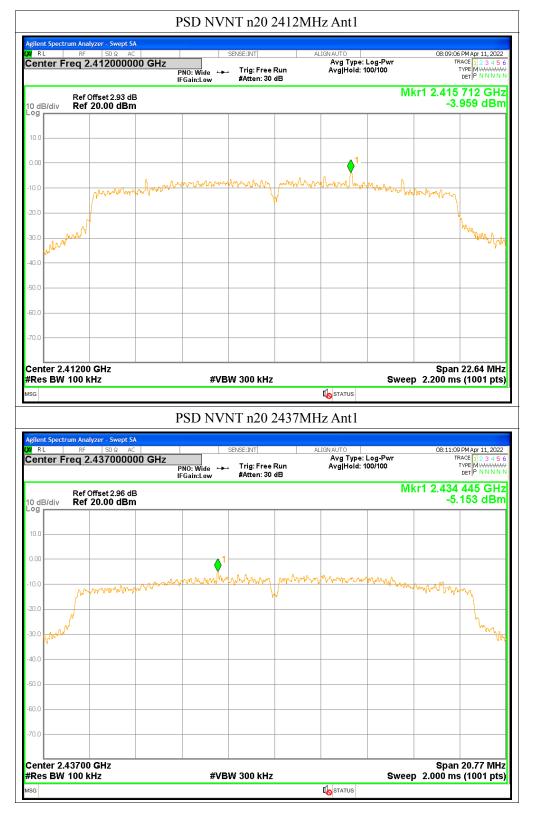




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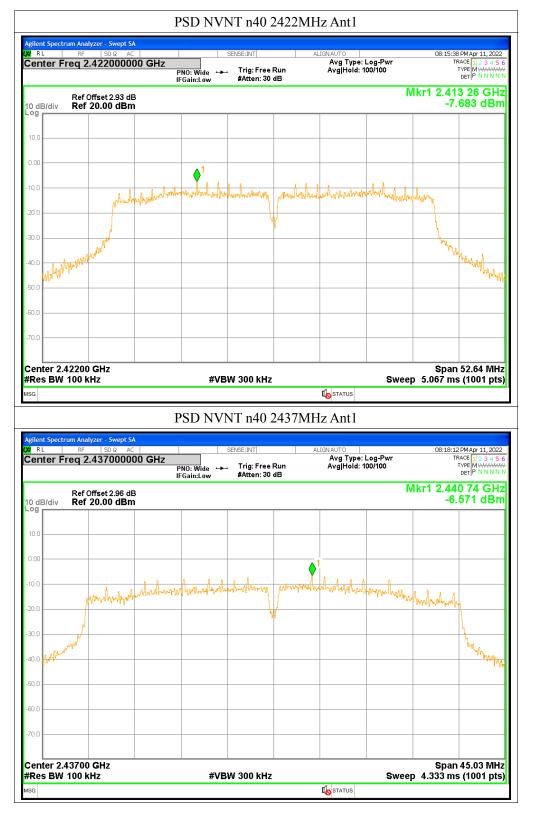




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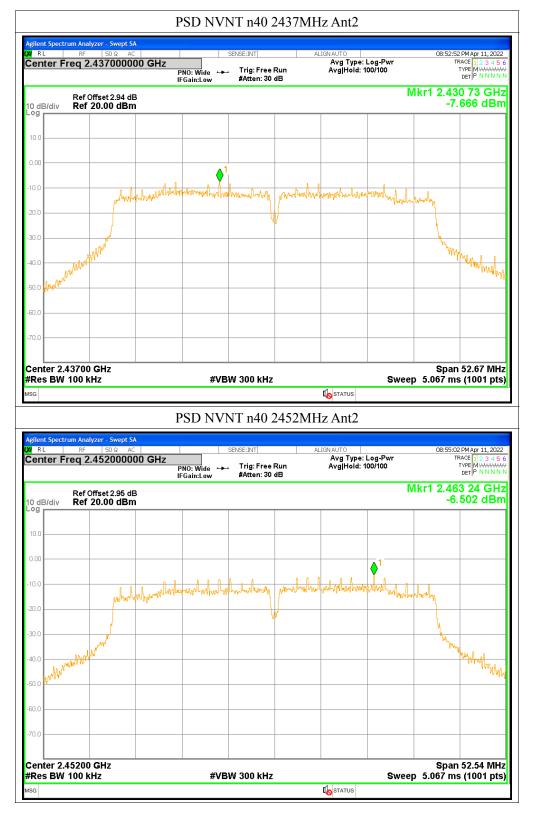




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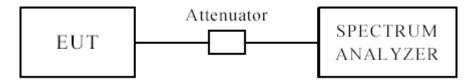


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10 Out of Band Measurement 10.1 Test Setup for band edge



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 –20dB 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 cased 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	РК

Test Figure:

	rum Analyzer - S							
RL		Ω AC	SEN	VSE:INT	ALIGN AUTO			PM Apr 11, 20
enter F	req 2.377(PNO: Wide ↔ FGain:Low	Trig: Free Run #Atten: 30 dB	Avg Type: Avg Hold: 1		1	ACE 1234 YPE MWWW DET PNNN
dB/div	Ref Offset Ref 20.00						Mkr1 2.4 -3.	14 5 GH 593 dB
).0								
00							≬ 1	
.0							where marine	
.0						Λ		-23.58
.0 0.								<u> </u>
.0			04			-		<u> </u>
.0	L. M. L. Marson Street		- Y	and the land of the state	when when when when when when when when	144 /2-		W
.0	charted for any first and for	waran war and the solution of	Jarderstanderson and the same	when the second second	adalleant with the start			
.0								
	2700 GHz 100 kHz		#\(B)M	300 kHz		Swoor	Stop 2.4 9.600 ms	2700 G
			#VBVV			-		(1001 p
R MODE T N N	RC SOL	× 2.414 5 GHz 2.400 0 GHz			FUNCTION WIDTH	FL	JNCTION VALUE	
N 1	f	2.390 0 GHz	-56.940 dE	3m				
N 1	f	2.360 0 GHz	-51.676 di	3m				
}								
								>

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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	РК

Test Figure:

	Swept SA	SENSE:I	JTI	ALIGN AUTO	07:5	7:20 PM Apr 11, 202
enter Freq 2.497	000000 GHz	D:Wide ↔ Trig	g: Free Run ten: 30 dB	Avg Type: Log- Avg Hold: 100/1	Pwr	TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
Ref Offset						.461 5 GH 5.410 dBr
0.0						
.00	1					
						-26.19 d
.0						-20.13 0
		n 2	$\langle \rangle^4 \rangle^3$			
.0 <mark>~~~~~~~~~</mark>	a sharkarky	2 mmun Lale prove	www.	monoral	where the water of the second	www.
.0						
art 2.44700 GHz tes BW 100 kHz		#VBW 30	0 kHz		Stop Sweep 9.600	2.54700 Gł ms (1001 pl
R MODE TRC SCL N 1 f N 1 f	× 2.461 5 GHz 2.483 5 GHz	√ -5.410 dBm -56.028 dBm	FUNCTION FI	UNCTION WIDTH	FUNCTION VALU	E
N 1 f N 1 f	2.500 0 GHz 2.495 7 GHz	-54.801 dBm -52.922 dBm				
)) 						

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CH01 at 1Mbps

Ant2

Band-edge Measurement 10.4

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

Test Figure:

	RF	50Ω AC		SENSE:INT	ALIGN AUTO		08:28:19 PM Apr 11, 20
enter F	req 2.37	77000000 GHz	PNO: Wide ++ IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Type: Avg Hold:		TRACE 1 2 3 4 TYPE MWWW DET P N N N
) dB/div		set 2.91 dB 0.00 dBm					Mkr1 2.412 5 GH -2.126 dB
9.0							- 1
							↓
.0 0.							walyhere
.0						N	-23.07
.0							
.0						- 2	
0	w. Thurley	لمعاليب تاريم المعالية بالمعالية المعالية المعالية المعالية المعالية المعالية المعالية المعالية المعالية المعال	non Malalan manufron	Mengell Margaret plant	vormation man	whit	
.0							
.0							
	2700 GH	Z		W 000 kli-		Sweer	Stop 2.42700 G 9.600 ms (1001 p
	100 kHz	2	#VB	W 300 kHz		aweet	
es BW	100 kHz	×	Y	FUNCTION	FUNCTION WIDTH	-	JNCTION VALUE
es BW	TOO KHZ	× 2.412 5 2.400 0	GHz -2.126 GHz -55.606	GBM dBm	FUNCTION WIDTH	-	
es BW	100 kHz RC SCL	× 2.412 5	GHz -2.126 GHz -55.606 GHz -53.393	FUNCTION dBm dBm dBm	FUNCTION WIDTH	-	
es BW	TOO KHZ	× 2.412 5 2.400 0 2.390 0	GHz -2.126 GHz -55.606 GHz -53.393	FUNCTION dBm dBm dBm	FUNCTION WIDTH	-	
es BW	TOO KHZ	× 2.412 5 2.400 0 2.390 0	GHz -2.126 GHz -55.606 GHz -53.393	FUNCTION dBm dBm dBm	FUNCTION WIDTH	-	
es BW	TOO KHZ	× 2.412 5 2.400 0 2.390 0	GHz -2.126 GHz -55.606 GHz -53.393	FUNCTION dBm dBm dBm	FUNCTION WIDTH	-	
es BW	TOO KHZ	× 2.412 5 2.400 0 2.390 0	GHz -2.126 GHz -55.606 GHz -53.393	FUNCTION dBm dBm dBm	FUNCTION WIDTH	-	

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CH11 at 1Mbps

Ant2

10.4 Band-edge Measurement

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

Test Figure:

RL RF	50 Ω AC			SENSE:INT		ALIGN AUTO		08:36:	27 PM Apr 11, 2
nter Freq 2	2.49700000	Р	NO: Wide 🔸	Trig: Free #Atten: 30		Avg Type Avg Hold:	:: Log-Pwr 100/100		TRACE 1 2 3 4 TYPE MWWW DET P N N N
	Offset 2.96 dE f 20.00 dB m							Mkr1 2.4 -0	162 5 GI .227 dB
0	1								
	www.								
<mark>م</mark> ر (V ·	W,							-20.18
<i>[</i>		<u>}</u>							
. N			<u>^2</u>						
where a		Myne	MMILIUM	Munhow	4 ¹⁴ Angrow	m Annon	phymphian m	vyanvolim	-+~~equila
)									
rt 2.44700 es BW 100			#VB	W 300 kHz			Swee	Stop 2 9.600 m	2.54700 G s (1001 p
MODE TRC SCL			Y		CTION FU	NCTION WIDTH		FUNCTION VALUE	· ·
N 1 f		2.462 5 GHz 2.483 5 GHz	-55.056	dBm					
N 1 f N 1 f		2.500 0 GHz 2.493 9 GHz	-55.801 -51.909						

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For 802.11g mode

CH01 at 6Mbps

Antl

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	РК

Test Figure:

		Analyzer - Swep							
RL		RF 50Ω	AC	SEI	NSE:INT	ALIGN AUTO			3 PM Apr 11, 20
enter	Freq	2.377000		NO: Wide +	Trig: Free Run #Atten: 30 dB	Avg Type Avg Hold:	:: Log-Pwr 100/100		RACE 1 2 3 4 1 TYPE MWWW DET P N N N
dB/div		ef Offset 2.93 ef 20.00 di						Mkr1 2.4 -3.	13 3 GH 449 dB
								¹	
								· V	3-19-1
									-23.95
							- P		
						23 mg	water		
	www.	www.eutyway.com.av.	applymantana	manumphel	muchar Uninguestione	Marth row Min Martin			
art 2.3 Res BV				#VBW	300 kHz		Swee	Stop 2. p 9.600 ms	42700 G s (1001 p
R MODE			×	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
N 2 N	1 1		2.413 3 GHz 2.400 0 GHz	-3.449 di -37.327 di	Зm				
N N	1 1		2.390 0 GHz 2.388 6 GHz	-52.842 di -50.919 di					
			2.000 0 0112	00.010 41	2				
3									
)									
1									
									>

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CH11 at 6Mbps

Ant1

Band-edge Measurement 10.4

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

Test Figure:

Agilent Spectrum Analyzer - Swept SA				
α RL RF 50 Ω AC Center Freq 2.497000000 GH	PNO Wide ⊶ Tri	ig: Free Run tten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 100/100	08:06:11 PM Apr 11, 2022 TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
Ref Offset 2.97 dB 10 dB/div Ref 20.00 dBm				Mkr1 2.464 5 GHz -6.836 dBm
10.0				
10.0				
30.0	N _M			-25.24 dBi
50.0 60.0	White Marine Mar	Jane And	ur work morrow when hope and the	๛๛๚๎ๅๅ๚๚๚๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛
70.0				
Start 2.44700 GHz Res BW 100 kHz	#VBW 30	00 kHz	Sw	Stop 2.54700 GH eep 9.600 ms (1001 pts
INF MODE TRC SCL X 1 N 1 f 2.464 2 N 1 f 2.483 3 N 1 f 2.500	5 GHz -53.590 dBm		NCTION WIDTH	FUNCTION VALUE
4 N 1 f 2.4841 5 6				
7 8 9 0				

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CH01 at 6Mbps

Ant2

10.4 Band-edge Measurement

	0			
	EUT	AIOJET	Model	AIOJet G1P
	Mode	Keeping Transmitting	Test Voltage	120V~
Te	emperature	24 deg. C,	Humidity	56% RH
T	est Result:	Pass	Detector	РК

Test Figure:

		yzer - Swept SA							
RL	RF	50 Ω AC		S	ENSE:INT	ALIGN AUTO			PM Apr 11, 202
enter F	req 2.	37700000	PN	lO: Wide ↔ Gain:Low	Trig: Free Run #Atten: 30 dB		e: Log-Pwr d: 100/100	T	CE 1 2 3 4 5 PE MWWW DET P N N N N
0 dB/div		offset 2.91 dB 20.00 dBm						Mkr1 2.41 -4.6	5 8 GH 609 dBr
og 10.0									
1.00								A 1	
0.0								-	h
0.0							- Aw		
0.0									-24.88 d
									Lun Ind
1.0						4 3	and the former		
	mont	whowhenny	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	www.markenwe	how was had and the	mon and and and and and			
0.0									
tart 2.32 Res BW				#VBV	V 300 kHz		Swee	Stop 2.4 p 9.600 ms	2700 GI (1001 pi
R MODE T	RC SCL	×	2.415 8 GHz	Y -4.609 c	FUNCTION	FUNCTION WIDTH		UNCTION VALUE	
	1 f	2	2.400 0 GHz	-40.276 c	dBm				
	1 f		2.390 0 GHz	-54.422 c					
3 N 1 N	f		2.387 0 GHz	-51.982 c	dBm				
8 N /				-51.982 c	¦Bm				
3 N 4 N 5 7				-51.982 c	1Bm				
3 N 4 N 5 7 8 9				-51.982 d	1Bm				
3 N 4 N 5 7 8				-51.982 c	JBm				
				-51.982 c					

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CH11 at 6Mbps

Ant2

Band-edge Measurement 10.4

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

Test Figure:

RL RF 50Ω AC	9	ENSE:INT	ALIGN AUTO		08:42:10 PM Apr 11, 2022
nter Freq 2.497000000 GHz	PNO: Wide	Trig: Free Run #Atten: 30 dB	Avg Type: I Avg Hold: 1		TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
Ref Offset 2.96 dB dB/div Ref 20.00 dBm				M	kr1 2.463 2 GH: -3.115 dBn
					-23.40 ut
0 20 20 20 20 20 20 20 20 20 20 20 20 20	M. M. Marine 2	4 3	home where and a non- and	nonder and red as all a	house for many of the second
0				a kan santah kabana ditin	
art 2.44700 GHz es BW 100 kHz	#VBV	V 300 kHz		Sweep	Stop 2.54700 GH 9.600 ms (1001 pt
MODE TRC SCL X N 1 f 2.463 2 0 N 1 f 2.463 2 0 N 1 f 2.463 0 0 N 1 f 2.400 0 0 N 1 f 2.400 0 N 1 f 2.492 0	Hz -52.900 c Hz -53.823 c	lBm IBm	FUNCTION WIDTH	FUNC	TION VALUE
					>

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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	РК

Test Figure:

L	RF 5	50 Ω AC		SENSE:INT	ALIGN AUTO			9 PM Apr 11,
nter Fr	req 2.377	7000000 GHz	PNO: Wide ↔ IFGain:Low	► Trig: Free R #Atten: 30 d	un Avgil	Type: Log-Pwr Hold: 100/100		RACE 1 2 3 TYPE MWW DET P N N
B/div	Ref Offse Ref 20.0						Mkr1 2.4 -3.	09 5 G 873 d
							. 1	
							_ _ ♦ '	
<u> </u>						prote-st	alamahampahanam	water
								-23.6
								- Wil
						WWWWWWWWWWW		
010 David 4 1	المعامية المعامية	nor when the second	Linear I. Con Makes with J. A.W.	mart at the about	And the state of t	Holer -		
- Danker	And a state of the second s	NL . Chell Manual	- I hallowed a set of Million by a	and a set of a set of the set of the	Kuran ya k			
	700 GHz					•	Stop 2	.42700 (
	100 kHz		#V	BW 300 kHz			ep 9.600 m	s (1001
MODE TR	C SCL	× 2.409 5 (Y 3Hz _3.87	3 dBm	TION FUNCTION WIDT	Н	FUNCTION VALUE	
	f	2.400 0 0	GHz -36.08	7 dBm				
N 1	f	2.390 0 (0 dBm 2 dBm				
	f							
N 1 N 1	f							
N 1 N 1	f							
N 1 N 1								
N 1 N 1	f							

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CH11 at mcs0

Ant1

10.4 Band-edge Measurement

0			
EUT	EUT AIOJET		AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

Test Figure:

	a					
Agilent Spectrum Analyzer	50 Ω AC	OF NOT J	u z	ALIGNAUTO		00-10-17 PM Arrs 11, 2022
Center Freq 2.49		SENSE:I		ALIGNAUTO Avg Type:	Log-Pwr	08:13:17 PM Apr 11, 2022 TRACE 1 2 3 4 5 6
Center Fred 2.49		NO: Wide 🛶 Trig	g: Free Run	Avg Hold: 1		TYPE M WWWWW
		Gain:Low #At	ten: 30 dB			DET P N N N N N
					M	kr1 2.467 0 GHz
	et 2.97 dB					-5.945 dBm
10 dB/div Ref 20.	00 dBm					0.040 abiii
10.0						
	1					
0.00	•					
-10.0	- mprahandangalan					
-20.0	¥					
-30.0						-26.21 dBm
اللغيب المحالية	What .					
-40.0 11 - 1		Martine of Da				
-50.0		May have a set		toral distance of		
-60.0		- The second sec	M. M	Man Marine Marine	ale suchtly in an an an	mpsonwell-knownersh
-70.0						
Start 2.44700 GHz	I					Stop 2.54700 GHz
#Res BW 100 kHz		#VBW 30	0 kHz		Sween	9.600 ms (1001 pts)
MKR MODE TRC SCL	X	Y COAS allow	FUNCTION	FUNCTION WIDTH	FUN	CTION VALUE
1 N 1 f 2 N 1 f	2.467 0 GHz 2.483 5 GHz	-5.945 dBm -51.197 dBm				
3 N 1 f	2.500 0 GHz	-55.339 dBm				
4 N 1 f	2.483 8 GHz	-50.416 dBm				
5						
7						
8						
9 10						
11						~
<						>
MSG				I STATUS		
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CH01 at mcs0

Ant2

Band-edge Measurement 10.4

0			
EUT	AIOJET	Model	AIOJet G1P
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

Test Figure:

Agilent Spectrum Analyzer - Swept SA				
LX/ RL RF 50Ω AC	SENSE:II	NT ALIGN AUTO		08:44:11 PM Apr 11, 2022
Center Freq 2.377000000 GHz	PNO:Wide →→→ Trig	Avg	Type: Log-Pwr Iold: 100/100	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N
Ref Offset 2.91 dB 10 dB/div Ref 20.00 dBm			N	/kr1 2.414 5 GHz -4.939 dBm
10.0				
0.00				∲ 1
-10.0			and the second s	on a for the second of the sec
-20.0				24.95 dBm
-30.0				W. Why
-40.0		- willially wave miligher for the low for the	. John W	
-0.00 -60.0	were and were and any	with the same much with the first	Phyle -	
-70.0				
Start 2.32700 GHz #Res BW 100 kHz	#VBW 30	0 kHz	Sweep	Stop 2.42700 GHz 9.600 ms (1001 pts)
MKR MODE TRC SCL X 1 N 1 f 2.414 5 2 N 1 f 2.400 0 3 N 1 f 2.390 0 4 N 1 f 2.388 2	GHz -38.850 dBm GHz -53.884 dBm	FUNCTION FUNCTION WIDTI	H FUN	ACTION VALUE
5 6 7 8 9				
10 11				×
MSG		Ko stat	US	

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CH11 at mcs0

Ant2

10.4 Band-edge Measurement

0			
EUT	JT AIOJET		AIOJet G1P
Mode	Mode Keeping Transmitting		120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

Test Figure:

Agilent Spectrum Analyzer - Swept SA				
Agrent Spectrum Analyzer - Swept SA	SENSE:	INT	ALIGN AUTO	08:48:32 PM Apr 11, 2022
Center Freq 2.497000000 GHz			Avg Type: Log-P	Wr TRACE 1 2 3 4 5 6
	THO, WILE P	ig: Free Run tten: 30 dB	Avg Hold: 100/100	
	IFGain:Low #A	tten: 30 dB		,
Ref Offset 2.96 dB				Mkr1 2.463 2 GHz
10 dB/div Ref 20.00 dBm				-2.653 dBm
Log				
10.0				
0.00				
-10.0				
-20.0				-23.30 dBm
				-23.50 dbm
-30.0	ι			
-40.0 vi ^{nv}	hunder and the			
-50.0	White was a set			lb l
-60.0	ի դարաղիրվ	the of her have a fill the set of	Mal mar and the good allow and	wonflymatichensister and antiparticles
-70.0				
-70.0				
Start 2.44700 GHz	I	1		Stop 2.54700 GHz
#Res BW 100 kHz	#VBW 30	0 kHz		Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X	Y	FUNCTION FUN	NCTION WIDTH	FUNCTION VALUE
1 N 1 f 2.463 2 0				
2 N 1 f 2.48350				
3 N 1 f 2.500 0 0 4 N 1 f 2.484 4 0				
5	40.041 0011			
6				
8				
9				
10				
				>
MSG				

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For 802.11n (HT40) mode

CH03 at msc0

Ant1

nent

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

Test Figure:

ent Spectrum Analyzer - Swept SA			
RL RF 50Ω AC	SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr	08:15:52 PM Apr 11, 20 TRACE 1 2 3 4
nter Freq 2.402000000 GH	Z PNO: Wide ↔→ Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold: 100/100	TYPE MWWW DET P N N N
Ref Offset 2.93 dB dB/div Ref 20.00 dBm			Mkr1 2.414 5 GH -7.657 dB
9 .0			
.0			1 .
	A	hadrents have been been been been bere and	and the mark
0			-27.38
0			
0	4 3 martine way		เข้าสามาร์ เ
0 www.wijamaryhowar			<u>ب</u> بين
0			
0			
art 2.35200 GHz			Stop 2.45200 G
es BW 100 kHz	#VBW 300 kHz	Swee	p 9.600 ms (1001 p
MODE TRC SCL X	Y FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
N 1 f 2.414 5 N 1 f 2.400 0			
N 1 f 2.390 0	GHz -48.443 dBm		
N 1 f 2.385 8	GHz -47.345 dBm		
			>

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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	РК				

Test Figure:

	um Analyz	er - Swept SA								
RL	RF	50 Ω AC			SENSE:INT		ALIGNAUTO			PM Apr 11, 20
enter F	req 2.4	7200000	F	PNO: Wide 🔸 FGain:Low	. Trig: Free #Atten: 30		Avg Type: Avg Hold: 1		Т	ACE 1234 YPE MWWWM DET PNNN
dB/div		fset 2.97 dB 0.00 dBm				1			Mkr1 2.43 -7.6	9 5 GH 47 dB
.0										
		. 1								
0		and all all all all all all all all all al	armentally	mulphilip	www. warden have have have have have have have have					
0		-		₩						-27.48
0					- \					
o	New					White and the second se				
Mulph o	ιγ-1					"Ihunhunhu	$Q^2 Q^2$	3	1	
							with while by the ball of the ball	manum	har have all and a set	_{พรา} ตงตรงการก _{าร}
0										
	200 GH 100 kH			#VB	W 300 kHz	:		Sweep	Stop 2.5 9.600 ms	2200 G (1001 p
MODE T	RC SCL f	×	2.439 5 GHz	-7.647		ICTION FU	NCTION WIDTH	FL	INCTION VALUE	
N 1 N 1	f f		2.483 5 GHz 2.500 0 GHz							
N 1	f		2.488 2 GHz							

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CH03 at msc0

Ant2

10.4 Band-edge and Restricted band Measurement

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

Test Figure:

Agilent Spectrum Analyzer - Swept SA			
LX RL RF 50Ω AC	SENSE:INT	ALIGN AUTO	08:50:57 PM Apr 11, 2022
Center Freq 2.402000000 GHz	PNO: Wide 🛶 Trig: Fro IFGain:Low #Atten:		
Ref Offset 2.92 dB 10 dB/div Ref 20.00 dBm			Mkr1 2.419 5 GHz -6.737 dBm
10.0			
0.00		↓	
-10.0		and a hard and and and and and and and and and an	without any had a dealer of the
-20.0			-26.81 dBm
-30.0	<u>\</u> 4 ⟨	2	To have
59.0	S and the set of the s	***	W-1hn ndr. Lyda-y
-50.0 Augurran walky with a line of a set of the set of	Monthelesent I. h II . I di di		
-70.0			
Start 2.35200 GHz #Res BW 100 kHz	#VBW 300 ki	łz	Stop 2.45200 GHz Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X 1 N 1 f 2.419 5 GF	lz -6.737 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE
2 N 1 f 2.400 0 GH 3 N 1 f 2.390 0 GH	lz -50.706 dBm		
4 N 1 f 2.3857GH	lz -46.492 dBm		
6 7			
8 9			
10 11			~
		1- CTATUS	
ISG			

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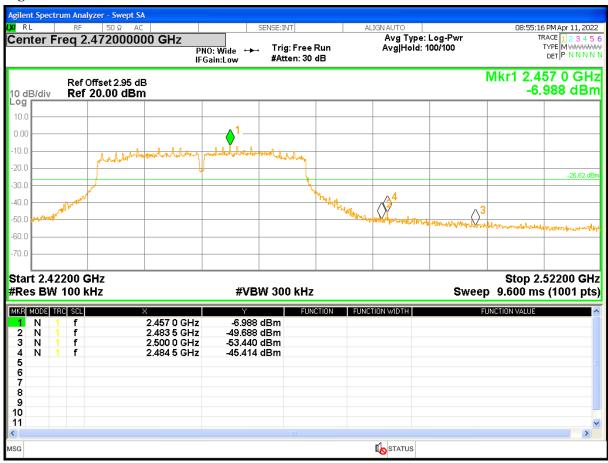
CH09 at msc0

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	РК					

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	РК				
	802.11b mode, Low Channel, Vertical							
2390	PK (dBµV/m)	47.28	I insit	74(dBµV/m)				
	AV (dBµV/m)		Limit	54(dBµV/m)				
802.11b mode, Low Channel, Horizontal								
2390	PK (dBµV/m)	43.61	T insit	74(dBµV/m)				
	AV $(dB\mu V/m)$		Limit	54(dBµV/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	РК				
	802.11b mode, High Channel, Vertical							
2483.5	PK (dBµV/m)	48.56	T in it	74(dBµV/m)				
	AV ($dB\mu V/m$)		Limit	54(dBµV/m)				
	802.11b mode, High Channel, Horizontal							
2483.5	PK (dBµV/m)	44.02	T insit	74(dBµV/m)				
	AV ($dB\mu V/m$)		Limit	$54(dB\mu V/m)$				

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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	РК		
802.11g mode, Low Channel, Vertical						
2390	PK (dBµV/m)	49.23	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)			54(dBµV/m)		
802.11g mode, Horizontal						
2390	PK (dBµV/m)	45.73	– Limit –	74(dBµV/m)		
	AV ($dB\mu V/m$)			54(dBµV/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	РК		
802.11g mode, High Channel, Vertical						
2483.5	PK (dBµV/m)	56.18	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)	40.26		54(dBµV/m)		
802.11g mode, High Channel, Horizontal						
2483.5	PK (dBµV/m)	52.43	Limit	74(dBµV/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		
EUT	AIOJET		Model	Alojet Olf		
Mode	Keeping Transmitting		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	РК		
802.11n HT20 mode, Low Channel, Vertical						
2390	PK (dBµV/m)	50.21	T :	74(dBµV/m)		
	AV (dBµV/m)		Limit	54(dBµV/m)		
802.11n HT20 mode, Low Channel, Horizontal						
2390	PK (dBµV/m)	47.05	T insit	74(dBµV/m)		
	AV (dBµV/m)		Limit	54(dBµV/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	РК		
802.11n HT20 mode, High Channel, Vertical						
2483.5	PK (dBµV/m)	56.93	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)	42.37		54(dBµV/m)		
802.11n HT20 mode, High Channel, Horizontal						
2483.5	PK (dBµV/m)	53.85	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)	39.76		54(dBµV/m)		

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10.5 Restricted band Measurement

	1	IO IET	37.11			
EUT	AIOJET		Model	AIOJet G1P		
Mode	Keeping Transmitting		Test Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	РК		
802.11n HT40 mode, Low Channel, Vertical						
2390	PK (dBµV/m)	53.15	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)	39.27		54(dBµV/m)		
802.11n HT40 mode, Low Channel Horizontal						
2390	PK (dBµV/m)	51.65	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)			54(dBµV/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	РК		
802.11n HT40 mode, High Channel, Vertical						
2483.5	PK (dBµV/m)	63.46	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)	49.67		54(dBµV/m)		
802.11n HT40 mode, High Channel, Horizontal						
2483.5	PK (dBµV/m)	57.81	Limit	74(dBµV/m)		
	AV ($dB\mu V/m$)	43.29		54(dBµV/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 mount 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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