





Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

FCC RADIO TEST REPORT

Part 15 subpart E FCC ID: 2AM8R-D4501

Report Reference No:	AAEMT/RF/240830-01-04
Date of issue:	2024-11-29
Testing Laboratory:	AA Electro Magnetic Test Laboratory Private Limited
Address:	Plot No 174, Udyog Vihar - Phase 4, Sector 18, Gurgaon, Haryana, India
*Applicant's name:	Netradyne Inc
*Address:	9171 Towne Centre Drive, Suite 110, San Diego, CA 92122
*Manufacturer:	Netradyne Inc
*Address:	9171 Towne Centre Drive, Suite 110, San Diego, CA 92122
*Test item description:	Driveri
*Trade Mark:	netradyne
*Model/Type reference:	D-450
Ratings:	Input of AC Adapter: AC 100-240V, 0.5A, 50-60Hz

Prepared By: (+ signature) Ankur Kumar

Reviewed & Approved by: (+ signature)

Dr. Lenin Raja (Authorized Representative) (/ lenin83/)







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TEST REPORT DECLARE

Applicant	•	Netradyne Inc
Address	:	9171 Towne Centre Drive, Suite 110, San Diego, CA 92122
Equipment under Test	:	Driveri
Model No	••	D-450
Trade Mark	•	netradyne
Manufacturer	:	Netradyne Inc
Address	:	9171 Towne Centre Drive, Suite 110, San Diego, CA 92122

Test Standard Used: FCC Part 15E 15.407

Test procedure used: ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

We Declare:

The equipment described above is tested by AA Electro Magnetic Test Laboratory Private Limited and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and AA Electro Magnetic Test Laboratory Private Limited is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Disclaimer: The * Information are provided by Manufacturer and it is verified through the Request form and Marking Label, AA Electro Magnetic Test Laboratory is not responsible for the above information accuracy.

Report No:	AAEMT/RF/240830-01-04	
Date of Test:	Aug 30 ~ Oct. 18, 2024	Date of Report: Nov. 29s, 2024

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AA Electro Magnetic Test Laboratory Private Limited







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1. SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below.							
FCC Part15 (15.407) , Subpart E							
Description of Test Item Standard Results							
AC Power Line Conducted Emissions	FCC §15.207/ RSS-Gen	PASS					
Spurious Radiated Emissions	FCC §15.209(a), 15.407(b)	PASS					
26 dB and 99% Emission Bandwidth	FCC §15.407(a)	PASS					
Maximum Conducted Output Power	FCC §407(a) (1)	PASS					
Band Edges	FCC §2.1051, §15.407(b)	PASS					
Power Spectral Density	FCC §15.407(a)(1)	PASS					
Spurious Emissions at Antenna Terminals	FCC §2.1051, §15.407(b)	PASS					
Antenna Requirement	FCC §15.203	PASS					







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2. GENERAL TEST INFORMATION

2.1. DESCRIPTION OF EUT

*EUT Name	:	Driveri
*Model Number	:	D-450
*Derivative model No.:	:	D-450A,D-455
Power supply	:	DC 12V, 5A
Operation frequency	:	WiFi: 802.11a/n(HT20)/ac(VHT20): 5180MHz~5240MHz; 5745MHz~5825MHz 802.11n(HT40)/ac(VHT40): 5190MHz~5230MHz; 5755MHz~5795MHz 802.11ac(VHT80):5210MHz; 5775MHz
Modulation		802.11a/n: BPSK/QPSK/16QAM/64QAM 802.11ac: BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
Data Rate	:	802.11a:6,9,12,18,24,36,48,54Mbps; 802.11ac(VHT20):MCS0-MCS8 802.11ac(VHT40/80):MCS0-MCS11 802.11n(HT20):MCS0-MCS7; 802.11n(HT40):MCS0-MCS7;
*Antenna Type:	:	Flexible PCB Antenna
*Antenna Gain:	:	5.5dBi
*H/W No.	:	103-00-00006
*S/W No.	:	13.0.19
Battery	:	N/A
Date of Receipt	:	Aug. 30, 2024
Condition of Sample on receipt		Good
Note:		For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. Antenna gain and antenna type provided by manufacturer.
Opinions and Interpretations:	:	See the specific Note / Annexure if any in the whole /full report/NA







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	Channel List								
	802.11a/n/ac (20MHz)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
36	5180	40	5200	44	5220	48	5240		
149	5745	153	5765	157	5785	161	5805		
165	5825								
			802.11n/a	c (40MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
38	5190	46	5230	151	5755	159	5795		
	802.11ac (80MHz)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
42	5210	-	-	-	-	155	5775		

2.2. ACCESSORIES OF EUT

Description of Accessories	Shielded Type	Ferrite Core	Length
AC ADAPTER	N/A	N/A	N/A

2.3. ASSISTANT EQUIPMENT USED FOR TEST

Description of Assistant equipment	Manufacturer	Model number or Type	EMC Compliance	SN
Laptop	DELL	Latitude 3490	-	5M2Z1W2





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3. EQUIPMENT'S LIST FOR ALL TEST ITEMS

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal.Due Date
1	Spectrum Analyzer	Rohde and Schwarz	FSP	101163	2023/02/13	2025/02/13
2	Loop antenna	DAZE Beijing	ZN30900C	18052	2023/09/15	2026/09/15
3	Hi power hom antenna	DAZE Beijing	ZN30700	18012	2023/09/11	2026/09/10
4	MXA Signal Analyzer	Keysight	N9020A	6272323218	2023/07/27	2025/07/27
5	Hom antenna	DAZE Beijing	ZN30703	18005	2023/09/11	2026/09/10
6	Pre amplifier	KELIANDA	LNA-0009295	-	2024/01/10	2025/01/10
7	Pre amplifier	KELIANDA	CF-00218	-	2024/01/10	2025/01/10
8	Biconical Antenna	DAZE Beijing	ZN30505C	17038	2023/09/11	2026/09/10
9	EMI-RECEIVER	Schwarzbeck	FCKL	1528194	2024/01/10	2025/01/10
10	LISN	Kyoritsu	KNW-407	8-1789-5	2024/01/10	2025/01/10

11	Network-LISN	SCHWAR ZBECK	NNBM8125	81251314	2024/01/10	2025/01/10
12	Network-LISN	SCHWAR ZBECK	NNBM8125	81251315	2024/01/10	2025/01/10
13	PULSELIMITER	Rohde and Schwarz	ESH3-Z2	100681	1	-
14	50Ω Coaxial Switch	DAIWA	1565157	-	-	-
15	50Ω Coaxial Switch	-	-	-	-	-
16	Wireless signal power meter	DARE!!	RPR3006W	RFSW190220	2024/01/13	2025/01/13
17	Signal Generator	KEYSIGHT	N5181A	512071	2024/01/10	2026/01/10
18	RF Vector Signal Generator	Keysight	N5182B	512094	2024/01/10	2026/01/10







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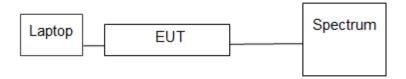
19	Spectrum analyzer	R&S	FSV-40N	101385	2023/04/28	2025/04/28
20	Radio Communication Tester	R&S	CMW 500	124589	2023/09/08	2025/09/08
				837017/004	2023/09/08	2025/09/08
21	Signal Generator	R&S	SMP02	836593/005	2023/09/08	2023/09/08
22	DC Regulated Power	Metravi	RPS-3005	669076	2023/12/12	2024/12/11





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3.1. BLOCK DIAGRAM OF EUT CONFIGURATION FOR TEST



3.2. TEST ENVIRONMENT CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25°C
Humidity range:	40-75%
Pressure range:	86-106kPa

3.3. MEASUREMENT UNCERTAINTY

No.	Item	Uncertainty
1	Conducted Emission Test	2.70dB
2	Radiated Emission Test	3.09dB
3	RF power, conducted	2.46dB
4	RF power density, conducted	2.24dB
5	Spurious emissions, conducted	2.71dB
6	All emissions, radiated(<1G)	3.08dB
7	All emissions, radiated(>1G)	3.09dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.







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4. POWER SPECTRAL DENSITY TEST

4.1. BLOCK DIAGRAM OF TEST SETUP

Spectrum Analyzer	Attenuator	EUT and Assistant System
	•	

4.2. APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omni directional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi..





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4.3. TEST PROCEDURE

(For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW $\geq 1/T$, where T is defined in section II.B.l.a).
- b) Set VBW \geq 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.







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4.4. TEST RESULT:

CH. No.	Frequency	power density (dBm/MHz)	Limit (dBm/MHz)	Result				
TX 802.11a Mode								
CH36	5180	10.26	11	Pass				
CH40	5200	10.01	11	Pass				
CH48	5240	9.54	11	Pass				
		TX 802.11n20 Mode						
CH36	5180	9.81	11	Pass				
CH40	5200	10.33	11	Pass				
CH48	5240	9.44	11	Pass				
		TX 802.11n40 Mode						
CH38	5190	8.45	11	Pass				
CH46	5230	9.11	11	Pass				
		TX 802.11ac20 Mode						
CH36	5180	9.99	11	Pass				
CH40	5200	10.60	11	Pass				
CH48	5240	9.19	11	Pass				
	TX 802.11ac40 Mode							
CH38	5190	8.54	11	Pass				
CH46	5230	8.81	11	Pass				
		TX 802.11ac80 Mode						
CH42	5210	5.30	11	Pass				







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TEST RESULT

CH. No.	Frequency	power density (dBm/500KHz)	Limit (dBm/500KHz)	Result				
TX 802.11a Mode								
CH 149	5745	9.74	30	Pass				
CH 157	5785	10.62	30	Pass				
CH 165	5825	11.61	30	Pass				
		TX 802.11n20 Mode						
CH 149	5745	10.16	30	Pass				
CH 157	5785	10.42	30	Pass				
CH 165	5825	11.09	30	Pass				
		TX 802.11n40 Mode						
CH151	5755	6.21	30	Pass				
CH159	5795	7.31	30	Pass				
		TX 802.11ac20 Mode						
CH 149	5745	9.48	30	Pass				
CH 157	5785	10.30	30	Pass				
CH 165	5825	11.20	30	Pass				
	TX 802.11ac40 Mode							
CH151	5755	7.03	30	Pass				
CH159	5795	7.51	30	Pass				
		TX 802.11ac80 Mode						
CH155	5775	7.20	30	Pass				





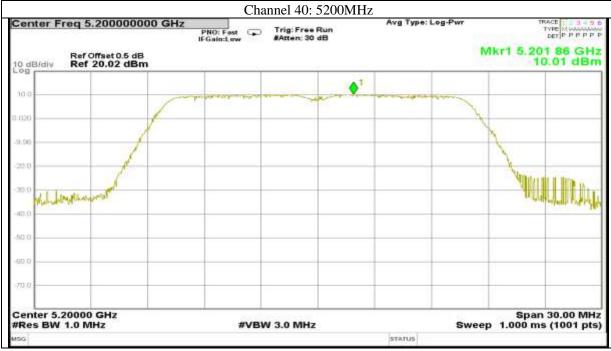


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Test plots as followed











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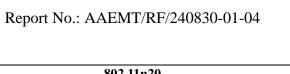




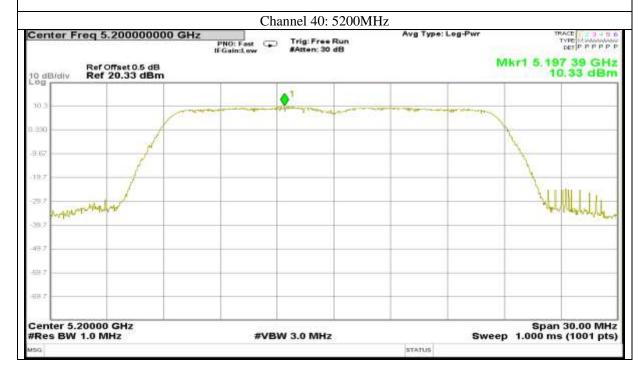




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Center 5.24000 GHz #Res BW 1.0 MHz

AA Electro Magnetic Test Laboratory Private Limited



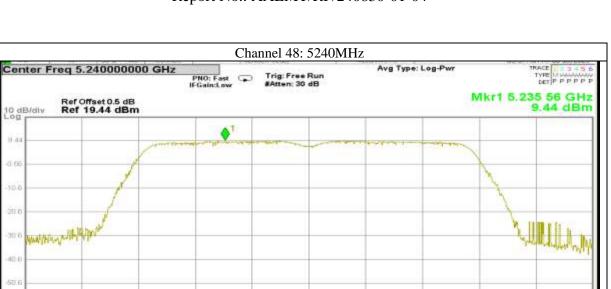
Span 30.00 MHz Sweep 1.000 ms (1001 pts)

STATUS



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#VBW 3.0 MHz











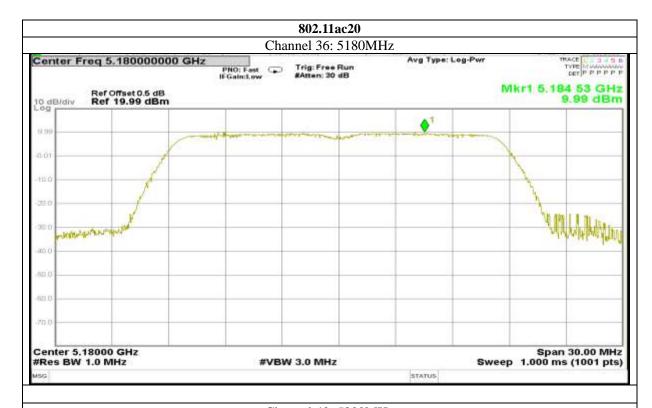


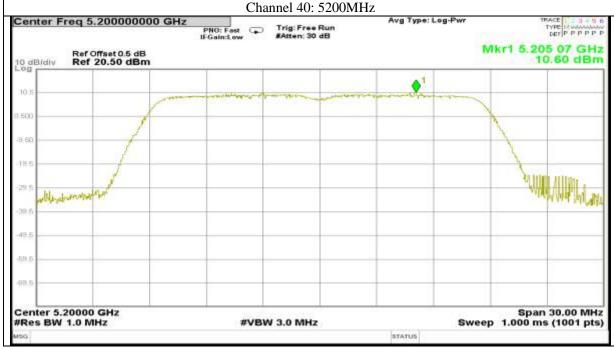


















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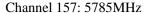
























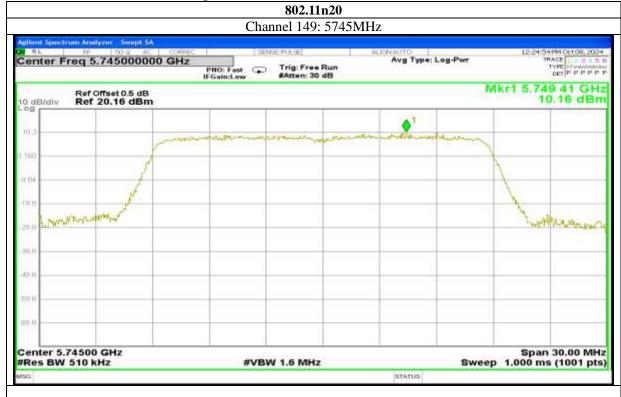






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Channel 157: 5785MHz

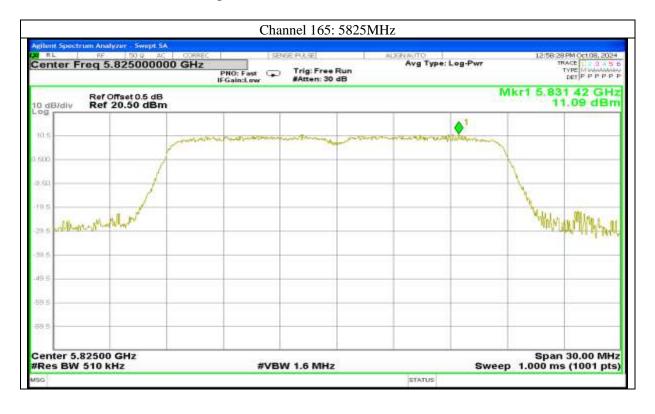












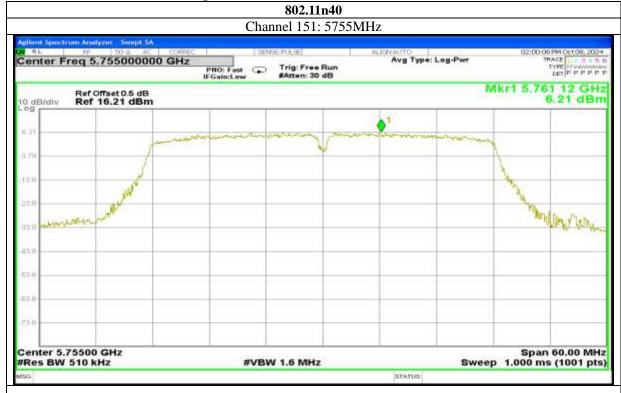






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Channel 159: 5795MHz



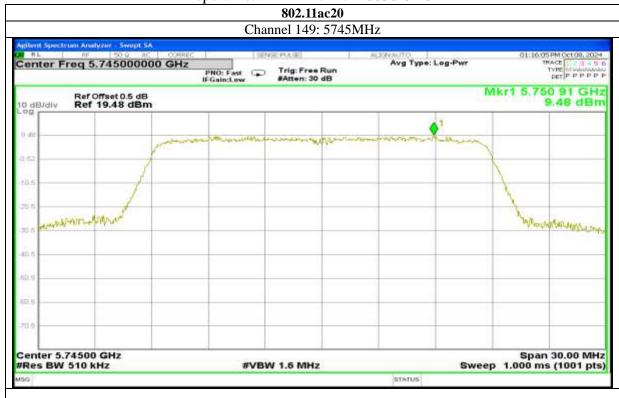






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Channel 157: 5785MHz

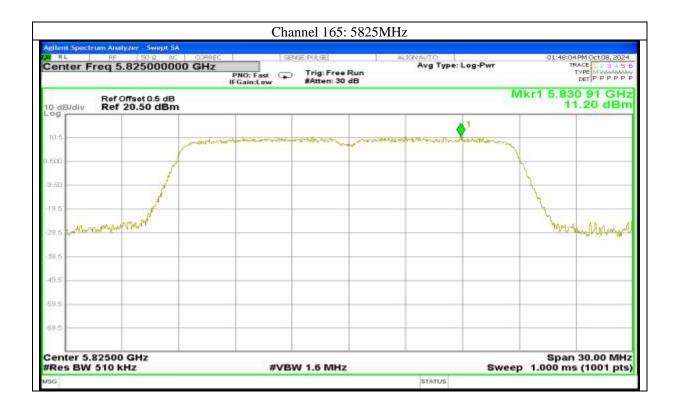








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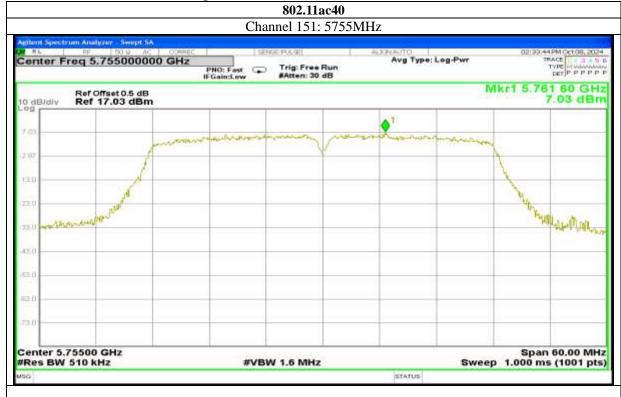






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Channel 159: 5795MHz









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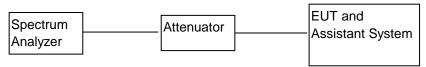


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5. 26 dB & 99% Emission Bandwidth

5.1. BLOCK DIAGRAM OF TEST SETUP



5.2. APPLIED PROCEDURES / LIMIT

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

5.3. TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1 % to 5 % of the OBW
- 4. Set $VBW > 3 \cdot RBW$
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.







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5.4. TEST RESULT

CH. Frequency		26dB Occupied Bandwidth (MHz)			99% Occupied Bandwidth (MHz)		
No.	(MHz)	802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11a	802.11n (HT20)	802.11ac (VHT20)
36	5180.00	18.450	19.410	19.410	16.309	17.496	17.505
40	5200.00	18.390	19.320	19.440	16.312	17.496	17.511
48	5240.00	18.570	19.440	19.350	16.316	17.509	17.494
CH	Fraguency	6dB Oc	cupied Bandwid	lth (MHz)	99% Occ	cupied Bandwidth	(MHz)
CH. No.	Frequency (MHz)	6dB Oc 802.11a	cupied Bandwid 802.11n (HT20)	tth (MHz) 802.11ac (VHT20)	99% Occ 802.11a	cupied Bandwidth 802.11n (HT20)	(MHz) 802.11ac (VHT20)
			802.11n	802.11ac		802.11n	802.11ac
No.	(MHz)	802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11a	802.11n (HT20)	802.11ac (VHT20)

CH.	E	26dB Occupied Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
No.	Frequency	802.11n	802.11ac	802.11n	802.11ac
NO.	(MHz)	(HT40)	(VHT40)	(HT40)	(VHT40)
38	5190.00	41.340	40.980	36.053	36.023
46	5230.00	41.700	41.040	36.070	36.086
CH.	Emaguamary	6dB Occupied Bandwidth (MHz)		99% Occupied I	Bandwidth (MHz)
No.	Frequency (MHz)	802.11n	802.11ac	802.11n	802.11ac
NO.	(MHZ)	(HT40)	(VHT40)	(HT40)	(VHT40)
151	5755.00	35.160	35.460	36.062	36.157
159	5795.00	34.200	35.220	36.070	36.116

CH.	Emagnamari	26dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
	Frequency	802.11ac	802.11ac
NO.	No. (MHz)	(VHT80)	(VHT80)
42	5210.00	81.360	74. 793
CH	CH. Frequency	6dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
No.		802.11ac	802.11ac
NO.	(MHz)	(VHT80)	(VHT80)
155	5775.00	75.360	74.787







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Test plots as followed:



















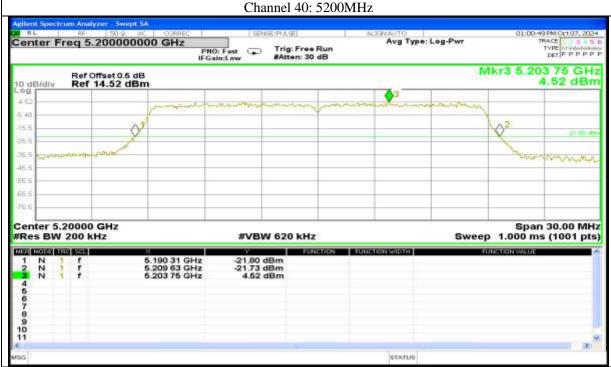


Report No.: AAEMT/RF/240830-01-04



Certificate#5593.01





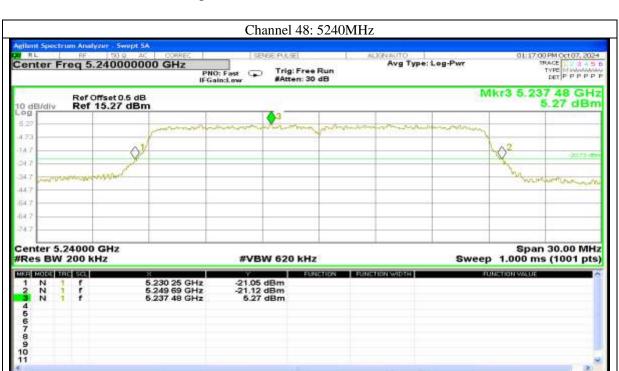






Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

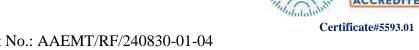


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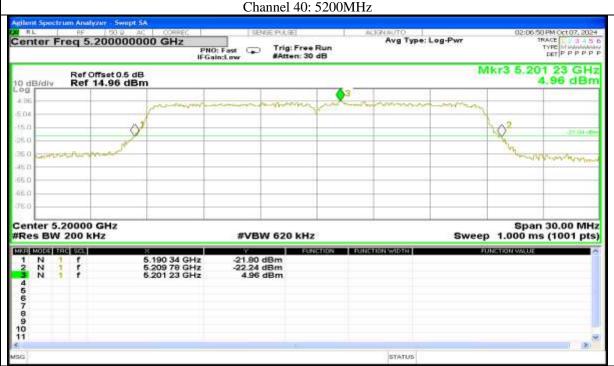














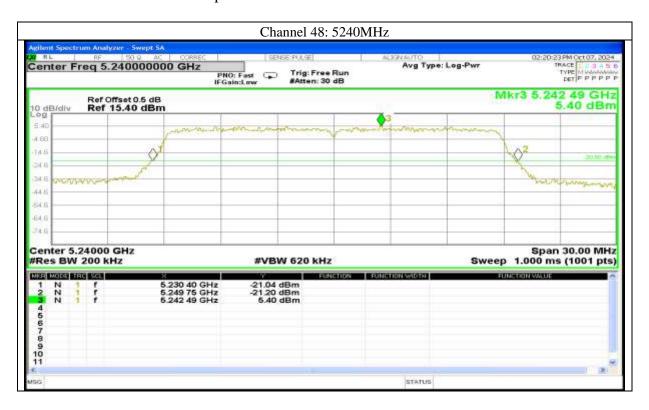




Report No.: AAEMT/RF/240830-01-04



Certificate#5593.01





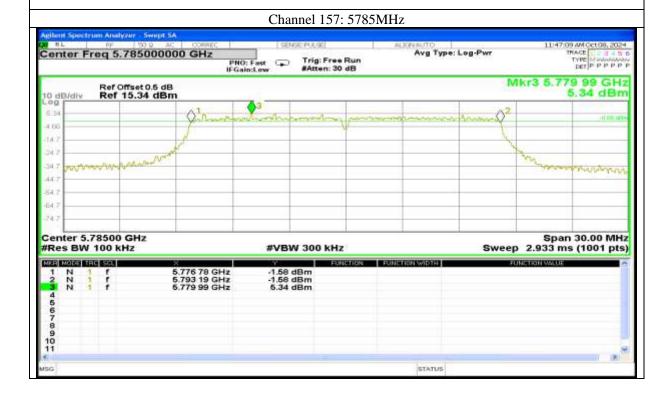




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Report No.: AAEMT/RF/240830-01-04





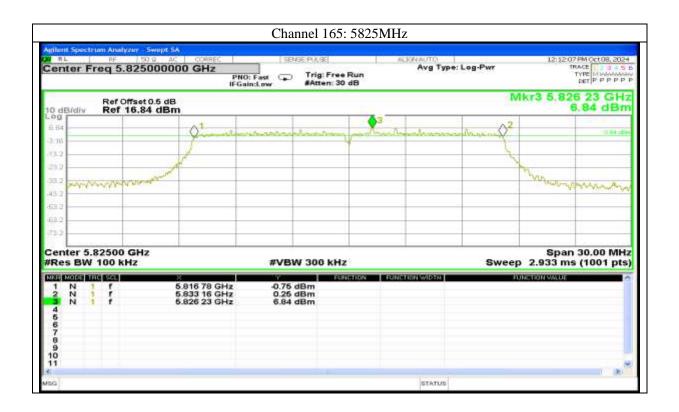
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Certificate#5593.01

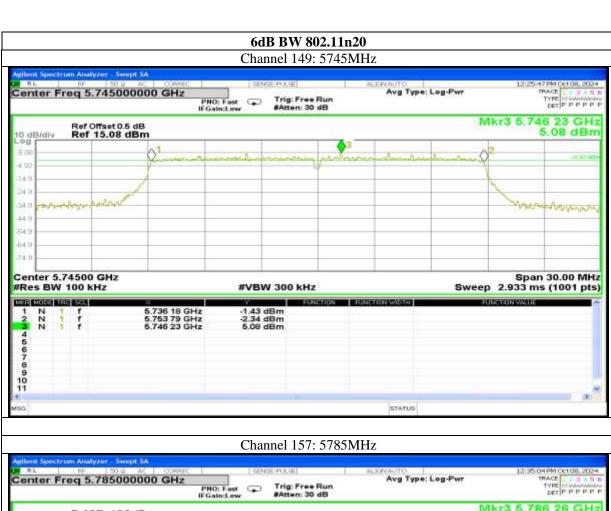














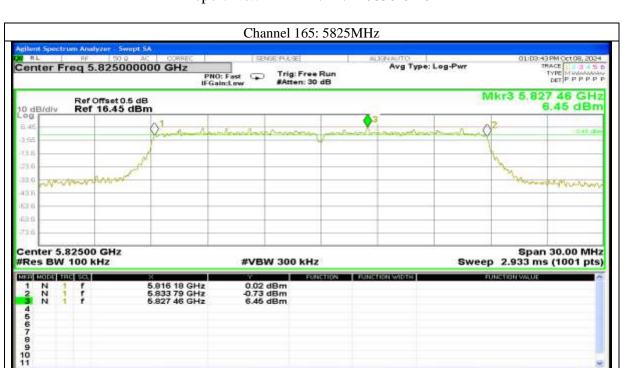






Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04



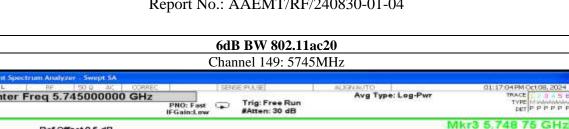
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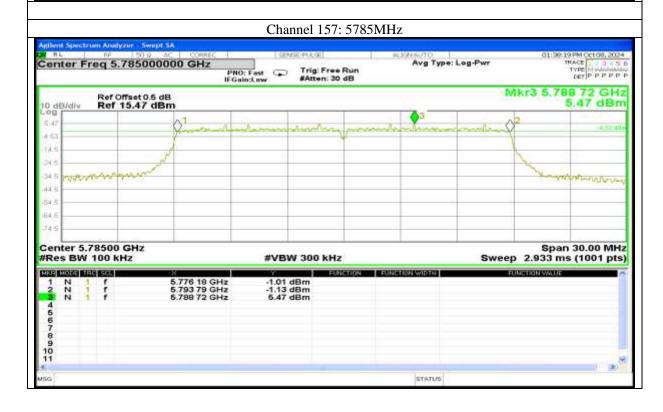




Certificate#5593.01







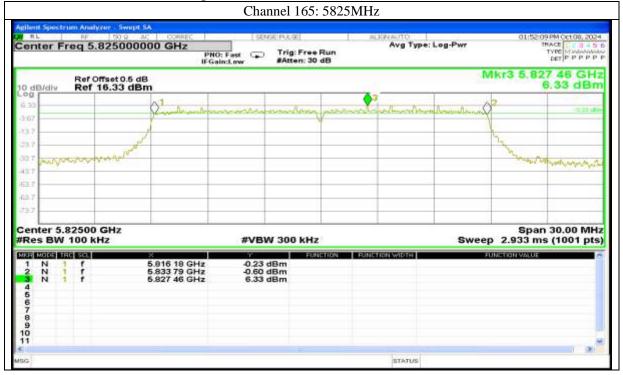






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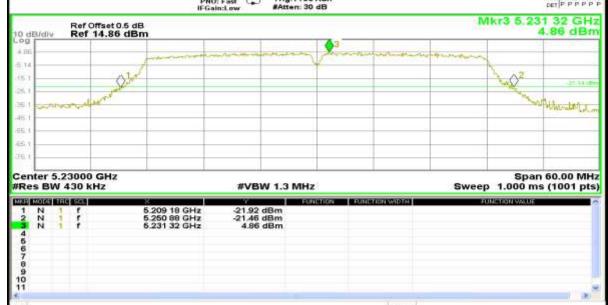


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Avg Type: Log-Pwr







Certificate#5593.01











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Certificate#5593.01



Channel 159: 5795MHz









Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04



Channel 159: 5795MHz









Certificate#5593.01





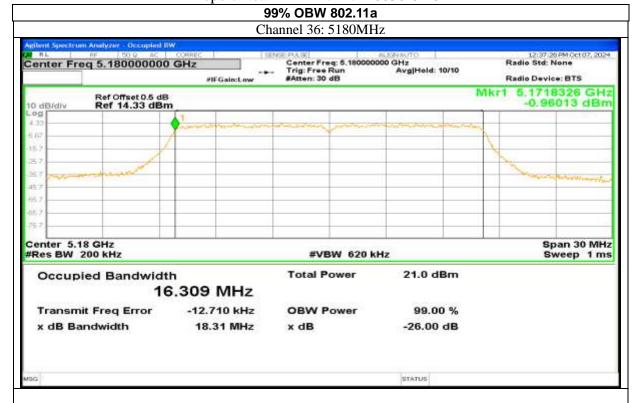


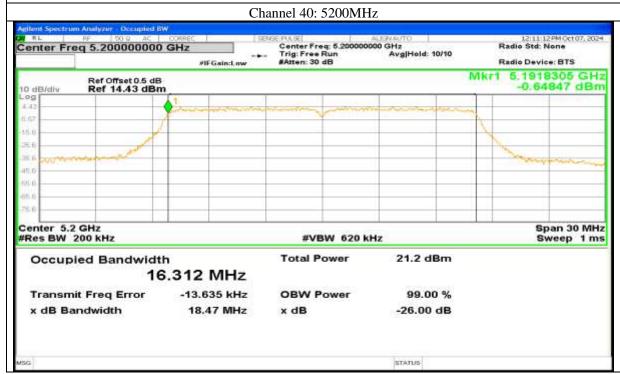






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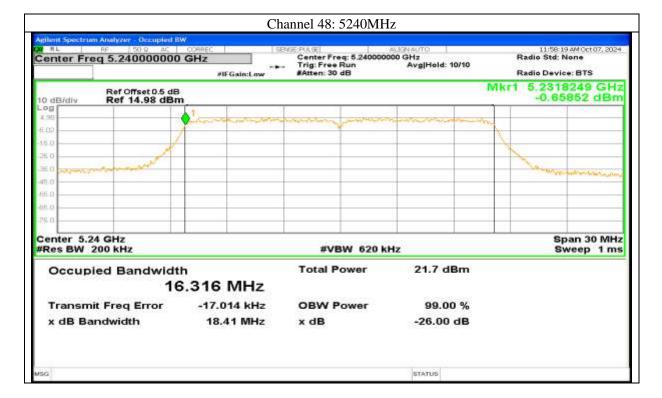






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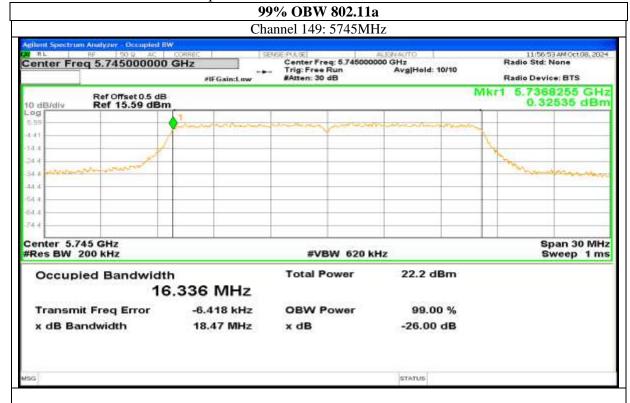




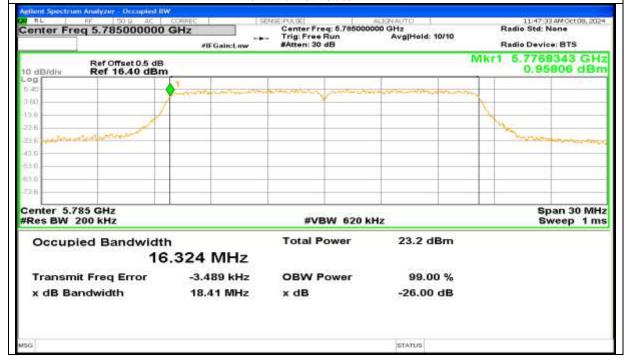


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Channel 157: 5785MHz



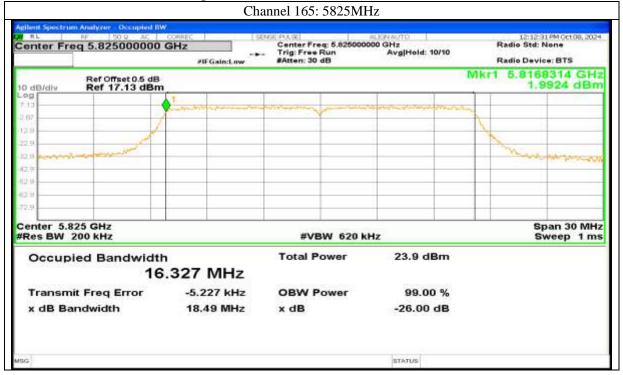






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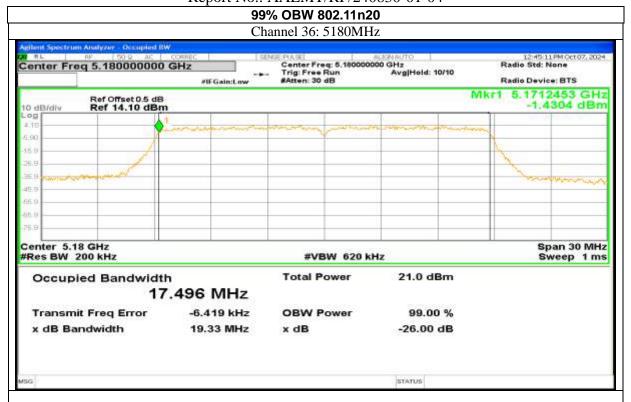




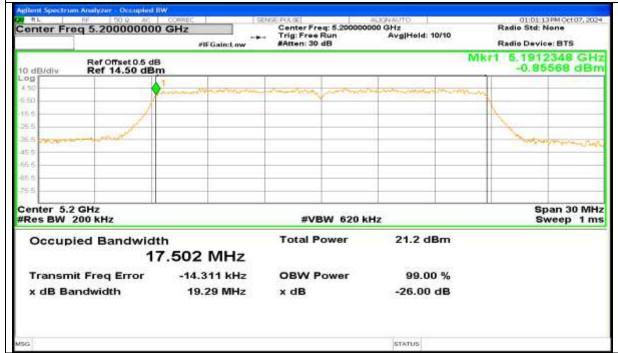


Report No.: AAEMT/RF/240830-01-04





Channel 40: 5200MHz

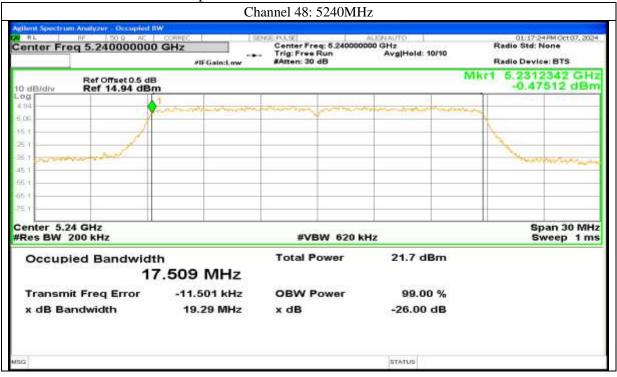








Certificate#5593.01



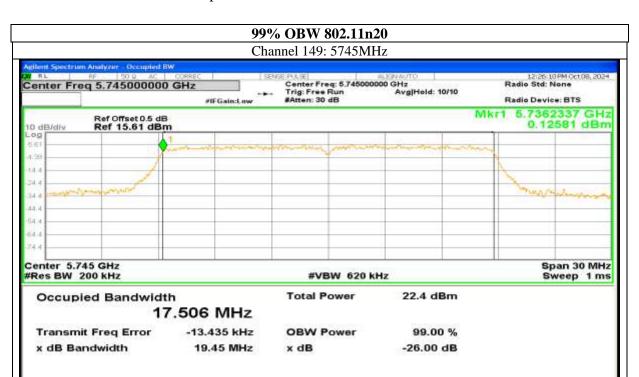


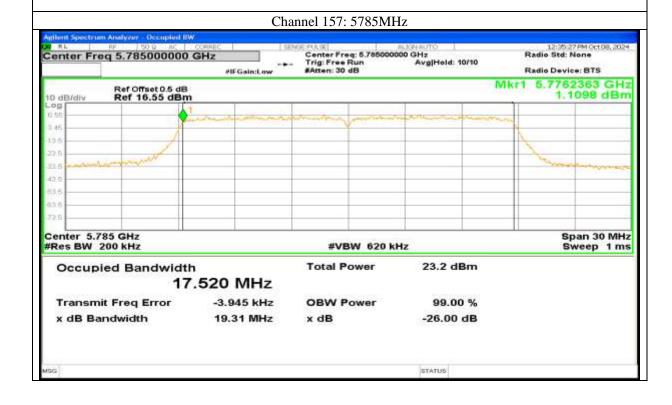




Certificate#5593.01

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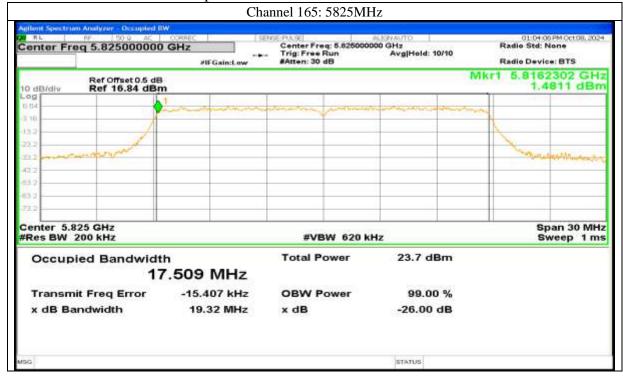
STATUS







Certificate#5593.01



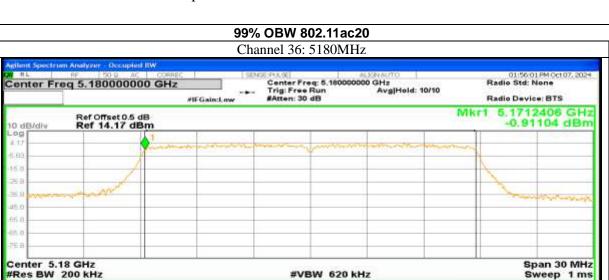






Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

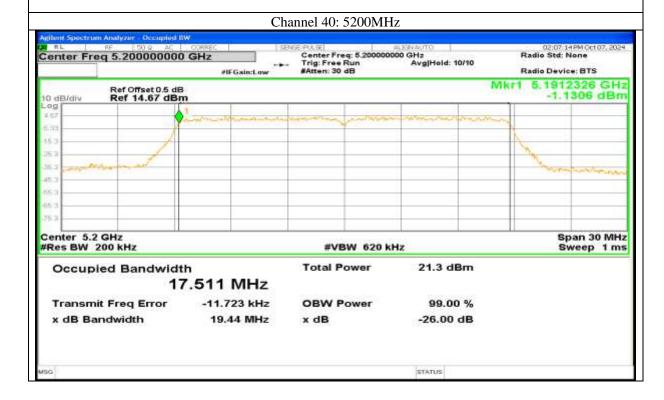


Occupied Bandwidth Total Power 21.1 dBm
17.505 MHz

 Transmit Freq Error
 -6.628 kHz
 OBW Power
 99.00 %

 x dB Bandwidth
 19.31 MHz
 x dB
 -26.00 dB

STATUS



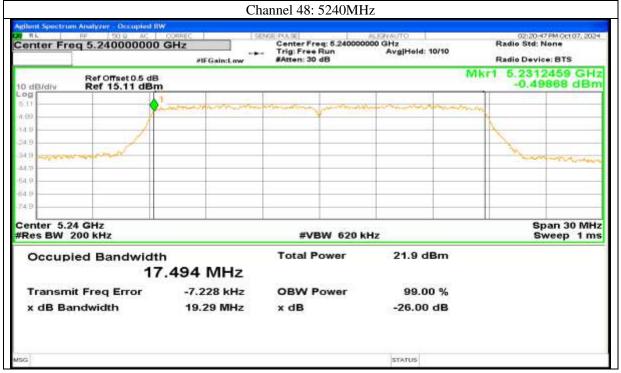






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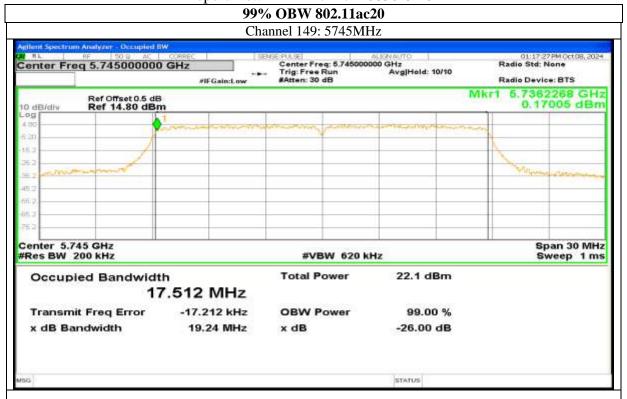


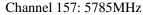






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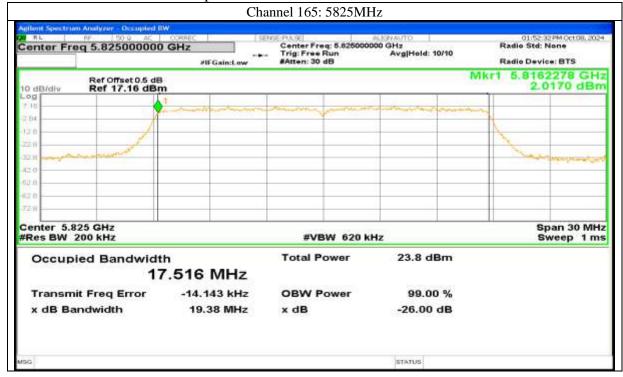








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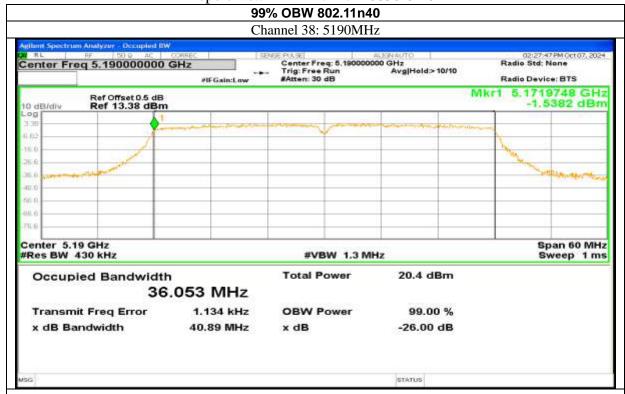


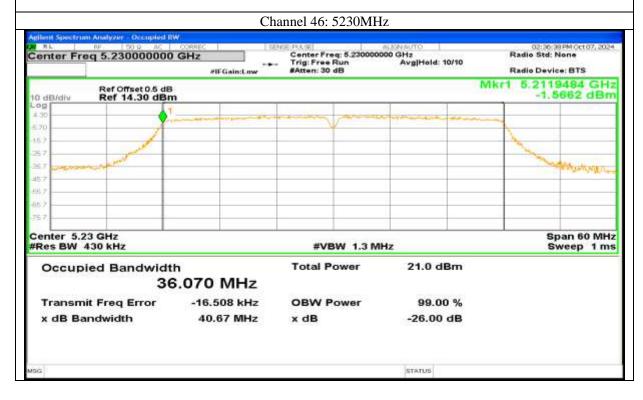






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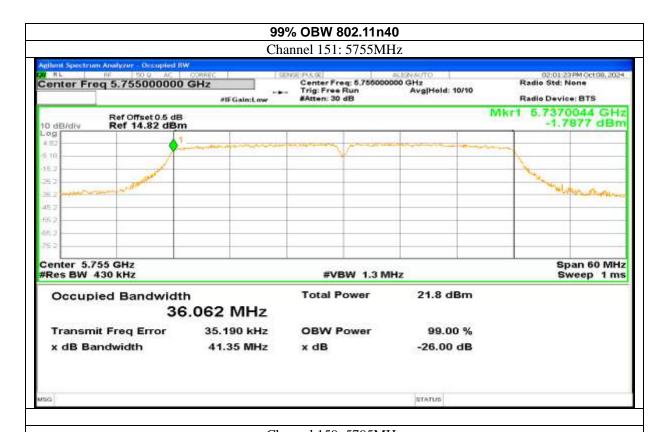


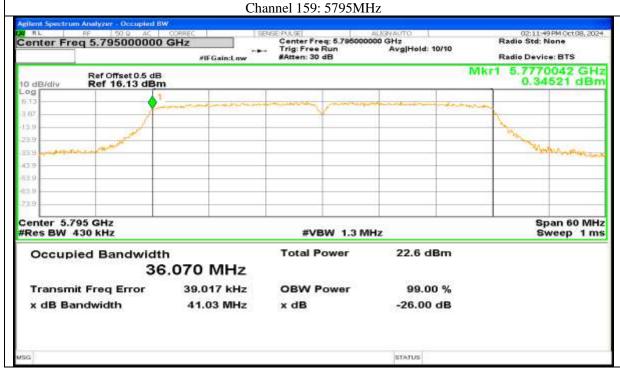










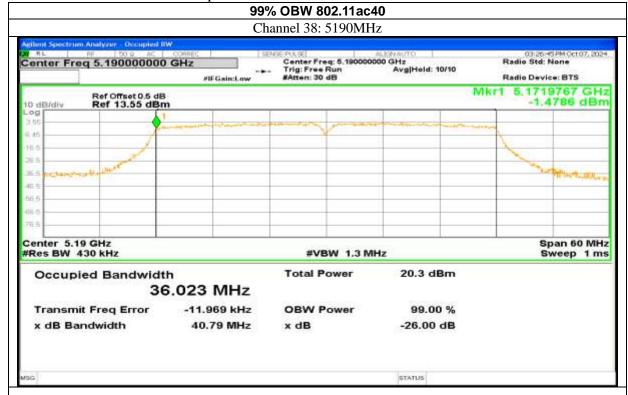


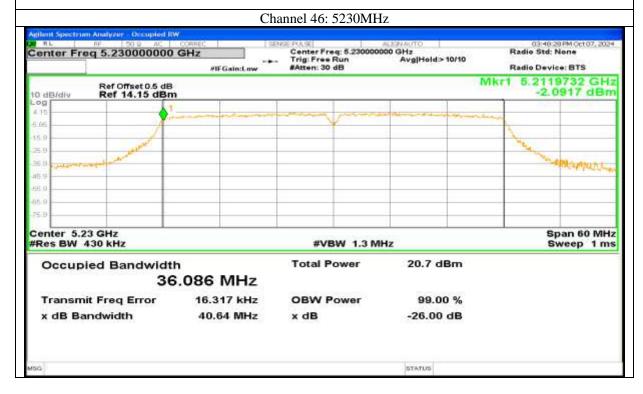






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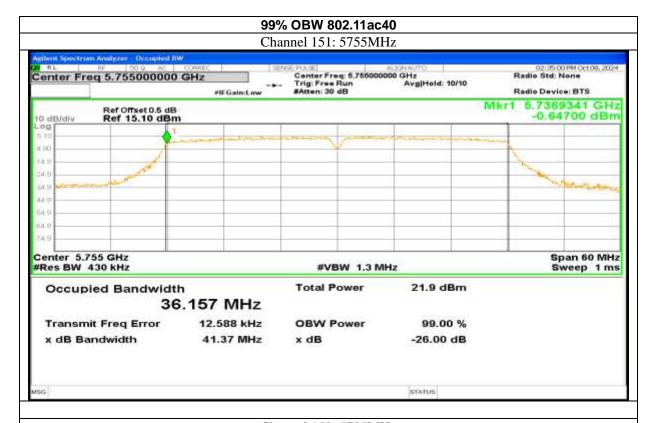


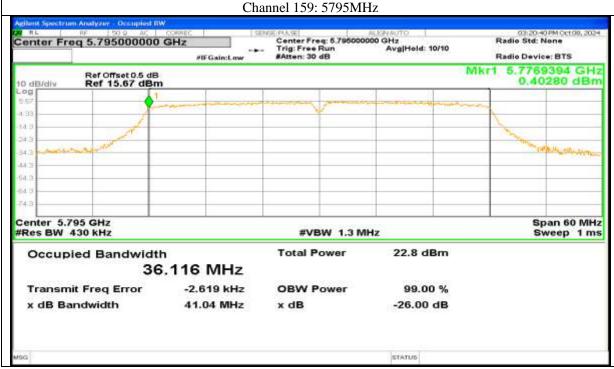












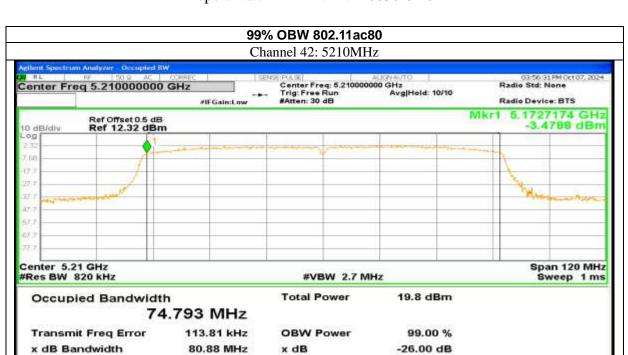


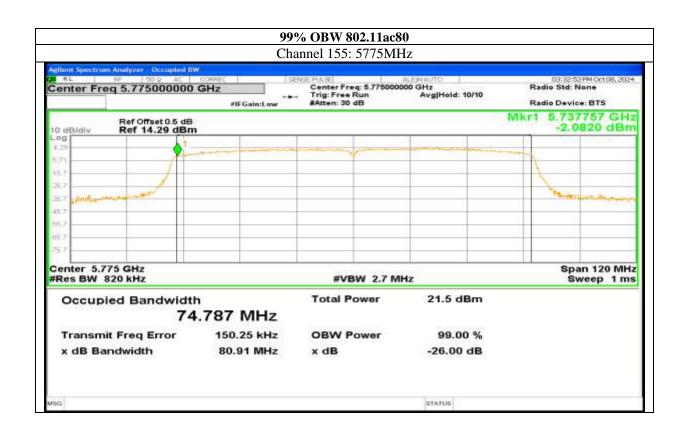




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STATUS







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6. MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement:	FCC Part15 E Section 15.407		
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01		
Limit:	For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.745-5.850 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 30dBm Power Meter E.U.T Non-Conducted Table Conducted Table Co		
Test setup:			
Test procedure:	Measurement using an RF average power meter		
	 (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. 		
	b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.		
	c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.		
	(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).		
	(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.		
	(iv) Adjust the measurement in dBm by adding 10 log(1/x) where x is the duty cycle (e.g., 10log(1/0.25) if the duty cycle is 25 percent).		
Test Instruments:	Refer to section 3 for details		
Test mode:	Refer to section 6 for details		







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6.1. TEST RESULT

CH. No.	Frequency	Output Power (dBm)				
		(MHz)	802.11a	802.11n (HT20)	802.11ac (VHT20)	Limit(dBm)
36	5180.00	22.54	22.46	22.60	24	Pass
40	5200.00	22.70	22.64	22.74	24	Pass
48	5240.00	23.28	23.34	23.38	24	Pass
149	5745.00	23.84	23.91	23.41	30	Pass
157	5785.00	24.71	24.83	24.65	30	Pass
165	5825.00	25.45	25.38	25.51	30	Pass

CH. Frequency		Output Po	ower (dBm)		
No.	Frequency	802.11n	802.11ac	Limit(dBm)	Result
NO.	(MHz)	(HT40)	(VHT40)		
38	5190.00	22.38	22.21	24	Pass
46	5230.00	22.85	22.57	24	Pass
151	5755.00	23.70	23.75	30	Pass
159	5795.00	24.56	24.76	30	Pass

CH.	Frequency	Output Power (dBm)	Limit(dBm)	Result
No.	(MHz)	802.11ac(VHT80)	Lillill(apill)	Result
42	5210.00	/22.15	24	Pass
155	5775.00	23.98	30	Pass







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7. Band Edges Measurement

Test Requirement:	FCC Part15 E Section 15.407 and 5.205		
Test Method:	ANSI C63.10:2013		
Limit:	Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz. a. The Transmitter output of EUT was connected to the spectrum analyzer. Equipment mode: Spectrum analyzer Detector function: Peak mode SPAN: 100MHz RBW: 1 MHz VBW: 1 MHz Sweep time= Auto. b. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed. c. Find the next peak frequency outside the operation frequency band.		
Test Procedure:			
Test setup:	EUT SPECTRUM ANALYZER		
Test results:	Pass		



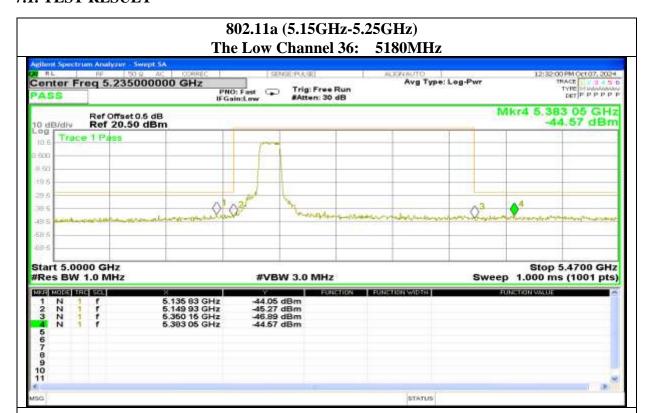




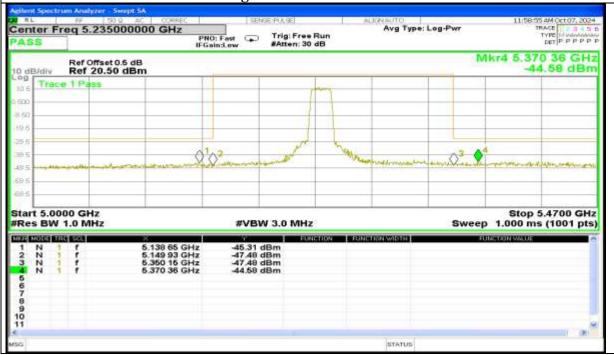
Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

7.1. TEST RESULT







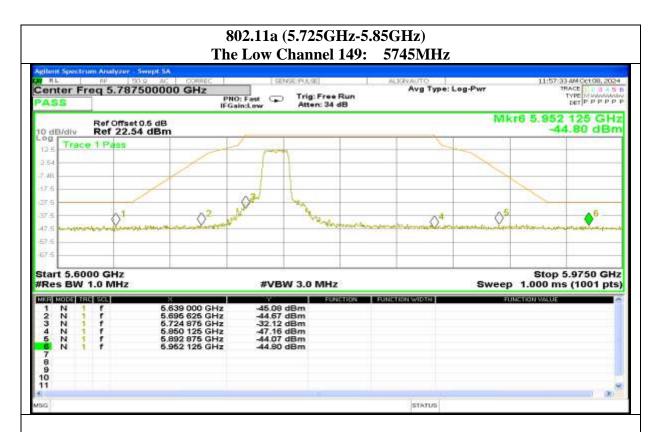






Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04









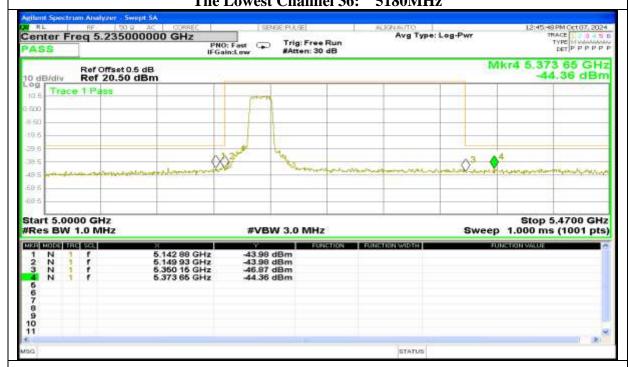




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802.11n(20M) (5.15GHz-5.25GHz) The Lowest Channel 36: 5180MHz



802.11n(20M) (5.15GHz-5.25GHz) The High Channel 48: 5240MHz



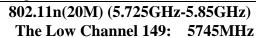






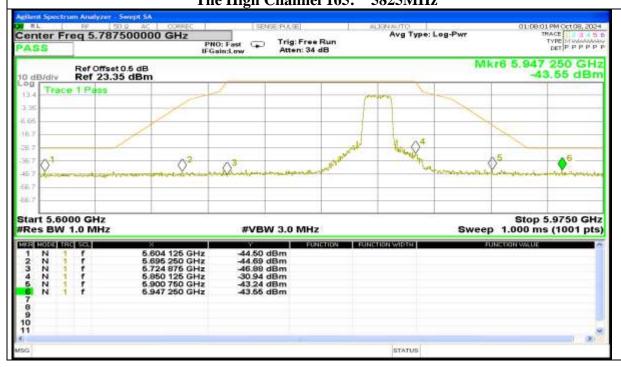
Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04





802.11n(20M) (5.725GHz-5.85GHz) The High Channel 165: 5825MHz





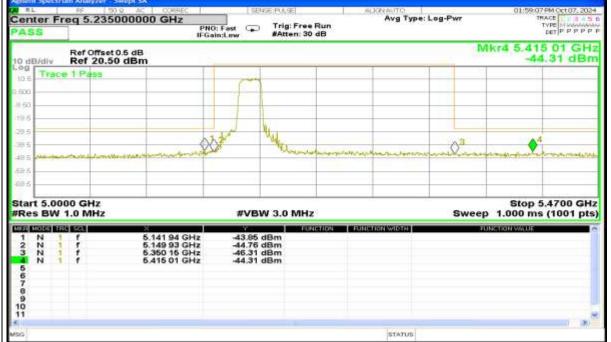




Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04





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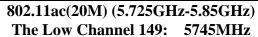






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Report No.: AAEMT/RF/240830-01-04





802.11ac(20M) (5.725GHz-5.85GHz) The High Channel 165: 5825MHz



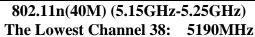






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802.11n(40M) (5.15GHz-5.25GHz) The High Channel 46: 5230MHz



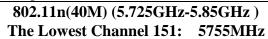






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Report No.: AAEMT/RF/240830-01-04





802.11n(40M) (5.725GHz-5.85GHz) The High Channel 159: 5795MHz



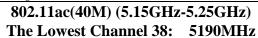






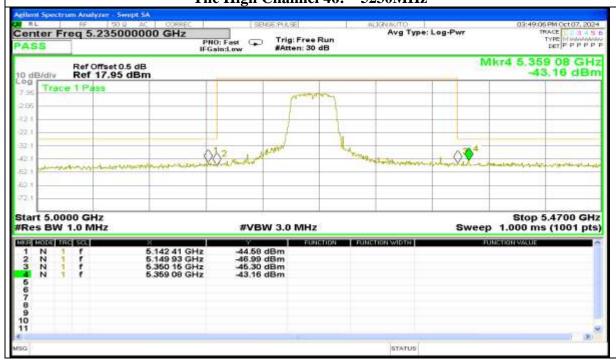
Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04





802.11ac(40M) (5.15GHz-5.25GHz) The High Channel 46: 5230MHz



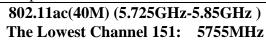






Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04





802.11ac(40M) (5.725GHz-5.85GHz) The High Channel 159: 5795MHz



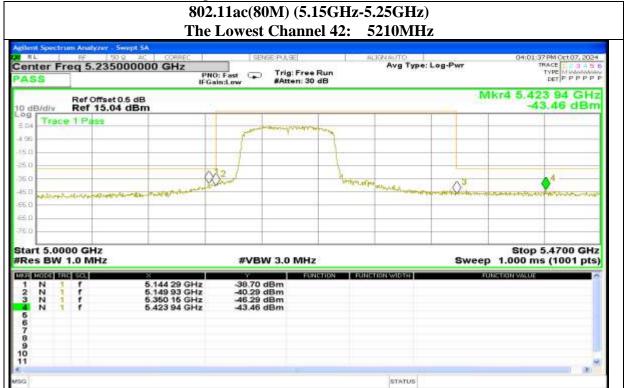


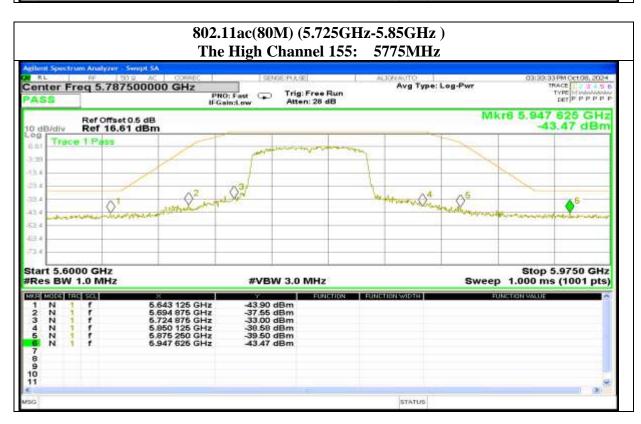




Certificate#5593.01











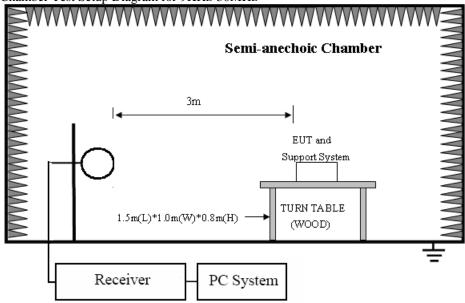


Report No.: AAEMT/RF/240830-01-04

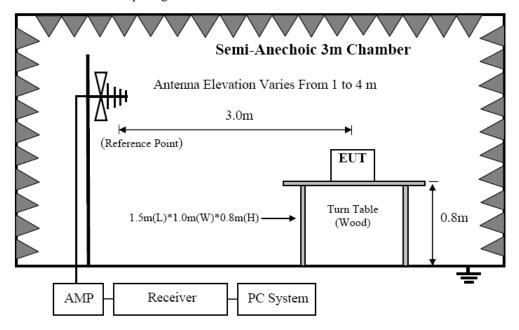
8. RADIATED EMISSION MEASUREMENT

8.1. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



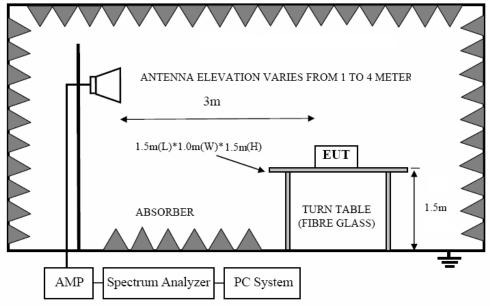




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In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.







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8.2. Limit

9.3.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

9.3.2. FCC 15.209 Limit.

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT		
MHz	Meters	μV/m	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(KHz)	67.6-20log(F)	
0.490 ~ 1.705	30	24000/F(KHz)	87.6-20log(F)	
1.705 ~ 30.0	30	30	29.54	
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500 54.0		
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)		

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

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AA Electro Magnetic Test Laboratory Private Limited



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9.3.3. Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 30dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.4 and 7.2
- (3) Test antenna was located 3m(except 18GHz-40GHz was 1m) from the EUT on an adjustable mast, and the antenna used as below

table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Bilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6,5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:
- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) new battery is used during testing
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.





Report No.: AAEMT/RF/240830-01-04

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz,110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

(8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure(according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure). Peak detector is used for Peak and AV measurement both.

According to KDB 789033 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

For example, if EIRP = -27dBm

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.





Report No.: AAEMT/RF/240830-01-04

8.4. Test result(Below 30MHz)

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:		Test Result:	Pass
Test Mode:	Keeping TX mode	Test By:	Aman

Freq.	Reading	Limit Margin		State
(MHz)	(dBuV/m)	(dBuV/m) (dB)		P/F
				P
		-		P

Note:

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

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

Limit line = specific limits(dBuv) + distance extrapolation factor.

Note: N/A





Report No.: AAEMT/RF/240830-01-04

TEST RESULTS (Between 30M – 1000 MHz)

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE) FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		





Report No.: AAEMT/RF/240830-01-04

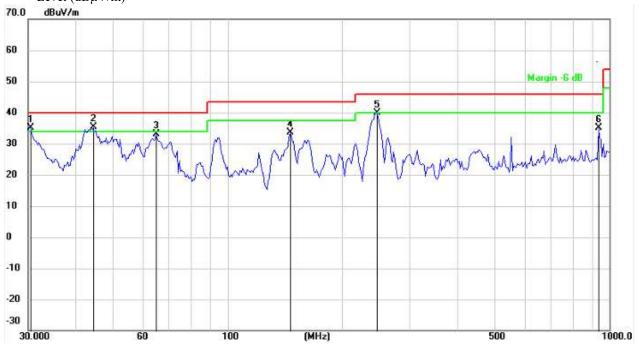
Test at Channel 36 (5.180 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Vertical:

Peak scan

Level (dBµV/m)



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2116	-12.98	47.99	35.01	40.00	-4.99	QP
2	44.1544	-11.74	47.19	35.45	40.00	-4.55	QP
3	64.9869	-14.03	47.10	33.07	40.00	-6.93	QP
4	145.8109	-15.50	49.08	33.58	43.50	-9.92	QP
5	245.2606	-10.30	50.27	39.97	46.00	-6.03	QP
6	938.7139	0.35	34.78	35.13	46.00	-10.87	QP

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (3) Margin = Result Limit







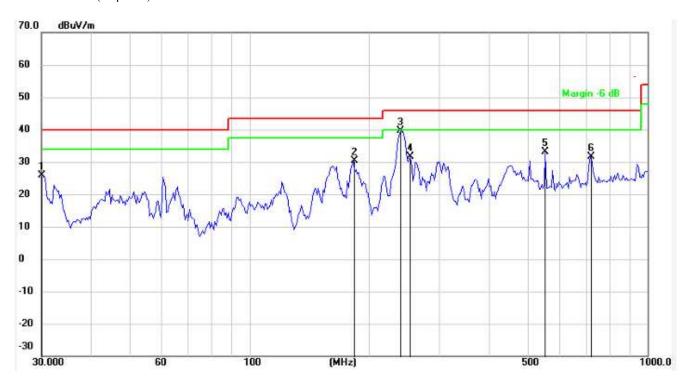
Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		

Horizontal:

Peak scan Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.0000	-10.98	36.90	25.92	40.00	-14.08	QP
2	182.5785	-11.44	41.93	30.49	43.50	-13.01	QP
3	240.1442	-8.53	48.17	39.64	46.00	-6.36	QP
4	254.0312	-7.97	39.61	31.64	46.00	-14.36	QP
5	554.1708	-0.95	34.18	33.23	46.00	-12.77	QP
6	723.7930	0.81	30.85	31.66	46.00	-14.34	QP

The test result is calculated as the following:

- (4) Result = Reading + Correct Factor
- (5) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (6) Margin = Result Limit

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Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE) FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		





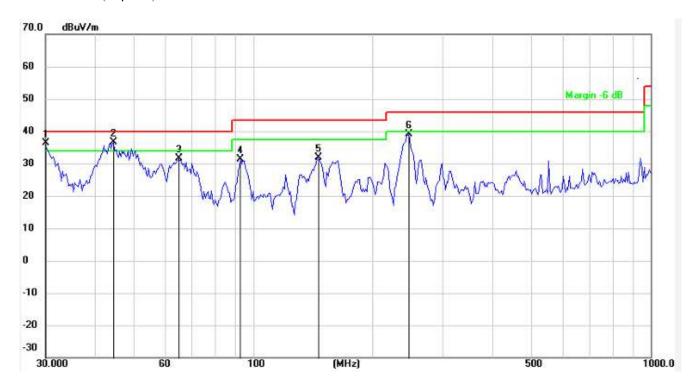
Report No.: AAEMT/RF/240830-01-04

Test at Channel 149 (5.745 GHz) in transmitting status

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Vertical:

Peak scan Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)		Margin (dB)	Detector
1	30.0000	-12.98	49.28	36.30	40.00	-3.70	QP
2	44.4657	-11.74	48.37	36.63	40.00	-3.37	QP
3	64.9869	-14.03	45.71	31.68	40.00	-8.32	QP
4	92.9974	-12.44	43.83	31.39	43.50	-12.11	QP
5	144.7899	-15.53	47.34	31.81	43.50	-11.69	QP
6	246.9901	-10.22	49.27	39.05	46.00	-6.95	QP

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (3) Margin = Result Limit







Certificate#5593.01

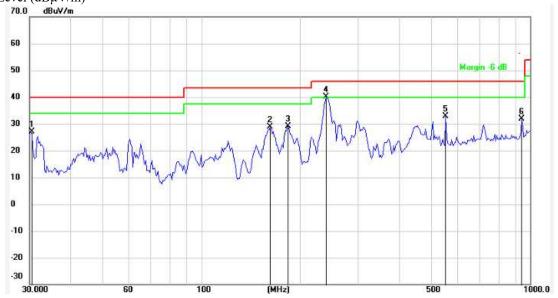
Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		

Horizontal:

Peak scan

Level $(dB\mu V/m)$



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.2116	-10.98	38.16	27.18	40.00	-12.82	QP
2	162.0197	-12.67	41.47	28.80	43.50	-14.70	QP
3	183.8660	-11.36	40.49	29.13	43.50	-14.37	QP
4	240.1442	-8.53	48.54	40.01	46.00	-5.99	QP
5	554.1708	-0.95	33.91	32.96	46.00	-13.04	QP
6	945.3336	1.78	30.22	32.00	46.00	-14.00	QP

- (4) Result = Reading + Correct Factor
- (5) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (6) Margin = Result Limit





Report No.: AAEMT/RF/240830-01-04

TEST RESULTS (Between 1000MHz - 18000 MHz)

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		







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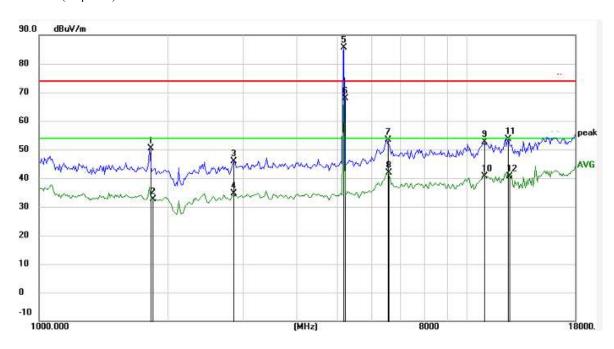
Report No.: AAEMT/RF/240830-01-04

Test at Channel 36 (5.180 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions. Peak Measurement

Vertical:

Peak scan Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1815.952	-3.66	54.12	50.46	74.00	-23.54	peak
2	1847.783	-3.61	36.23	32.62	54.00	-21.38	AVG
3	2853.115	-2.17	48.12	45.95	74.00	-28.05	peak
4	2853.115	-2.17	36.85	34.68	54.00	-19.32	AVG
5	5180.000	0.80	84.91	85.71	74.00	11.71	peak
6	5181.120	0.80	67.06	67.86	54.00	13.86	AVG
7	6532.008	-5.03	58.45	53.42	74.00	-20.58	peak
8	6569.953	-3.85	45.66	41.81	54.00	-12.19	AVG
9	11065.323	8.29	44.25	52.54	74.00	-21.46	peak
10	11065.323	8.29	32.40	40.69	54.00	-13.31	AVG
11	12569.175	8.44	45.25	53.69	74.00	-20.31	peak
12	12642.191	8.44	32.28	40.72	54.00	-13.28	AVG

Note: Marker 5 is intentionally radiated frequency from the EUT.

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result Limit

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Plot No.174, Udyog Vihar Phase 4, Sector -18, Gurgaon -122016, Haryana, India







Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		





Certificate#5593.01

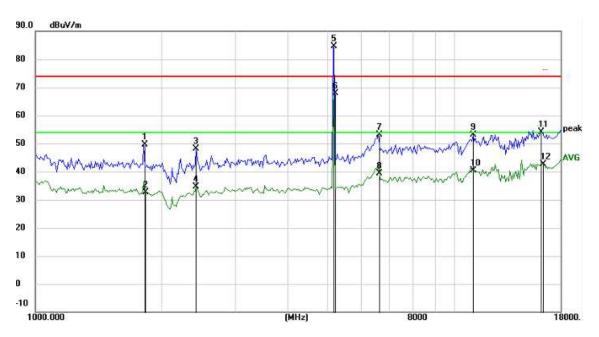
Report No.: AAEMT/RF/240830-01-04

Test at Channel 36 (5.180 GHz) in transmitting status

1000 MHz~18 GHz Spurious Emissions. Peak Measurement

Horizontal:

Peak scan Level (dBμV/m)



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1815.952	-3.66	53.26	49.60	74.00	-24.40	peak
2	1837.111	-3.63	36.37	32.74	54.00	-21.26	AVG
3	2425.957	-2.74	50.99	48.25	74.00	-25.75	peak
4	2425.957	-2.74	37.29	34.55	54.00	-19.45	AVG
5	5180.000	0.80	83.93	84.73	74.00	10.73	peak
6	5181.120	0.80	67.03	67.83	54.00	13.83	AVG
7	6608.119	-2.67	55.81	53.14	74.00	-20.86	peak
8	6646.506	-1.48	40.82	39.34	54.00	-14.66	AVG
9	11129.603	8.34	44.79	53.13	74.00	-20.87	peak
10	11129.603	8.34	32.06	40.40	54.00	-13.60	AVG
11	16217.807	9.50	44.75	54.25	74.00	-19.75	peak
12	16406.777	9.46	33.11	42.57	54.00	-11.43	AVG

Note: Marker 5 is intentionally radiated frequency from the EUT.

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (3) Margin = Result Limit







Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		





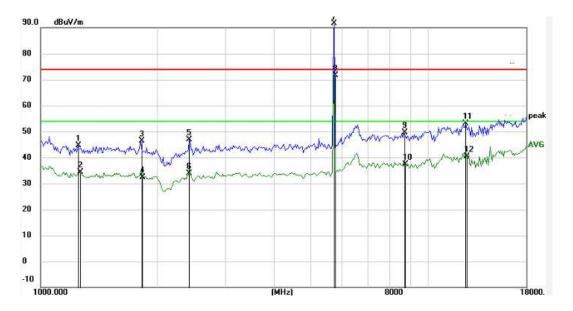


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Report No.: AAEMT/RF/240830-01-04

Test at Channel 149 (5.745 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1246.212	-4.26	48.85	44.59	74.00	-29.41	peak
2	1260.733	-4.26	38.52	34.26	54.00	-19.74	AVG
3	1815.952	-3.66	50.08	46.42	74.00	-27.58	peak
4	1837.111	-3.63	36.02	32.39	54.00	-21.61	AVG
5	2425.957	-2.74	49.73	46.99	74.00	-27.01	peak
6	2425.957	-2.74	36.64	33.90	54.00	-20.10	AVG
7	5745.000	1.73	89.86	91.59	74.00	17.59	peak
8	5750.479	1.75	69.97	71.72	54.00	17.72	AVG
9	8675.808	3.49	46.20	49.69	74.00	-24.31	peak
10	8776.898	3.42	33.98	37.40	54.00	-16.60	AVG
11	12569.175	8.44	44.68	53.12	74.00	-20.88	peak
12	12642.191	8.44	31.94	40.38	54.00	-13.62	AVG

Note: Marker 7 and 8 are intentionally radiated frequency from the EUT. Hence considered as PASS.

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result Limit







Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		





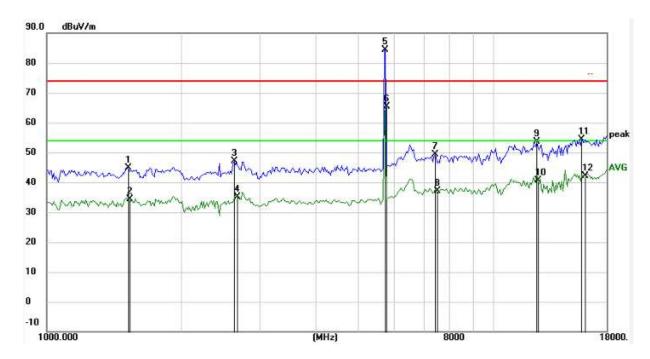


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Report No.: AAEMT/RF/240830-01-04

Test at Channel 149 (5.745 GHz) in transmitting status

1000 MHz~18000 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1517.475	22.13	22.83	44.96	74.00	-29.04	peak
2	1535.156	22.14	12.14	34.28	54.00	-19.72	AVG
3	2630.881	25.66	21.45	47.11	74.00	-26.89	peak
4	2676.997	25.82	9.19	35.01	54.00	-18.99	AVG
5	5745.000	35.35	49.09	84.44	74.00	10.44	peak
6	5750.479	35.38	30.10	65.48	54.00	11.48	AVG
7	7419.751	39.99	9.28	49.27	74.00	-24.73	peak
8	7462.854	40.04	-2.85	37.19	54.00	-16.81	AVG
9	12569.175	47.75	5.77	53.52	74.00	-20.48	peak
10	12642.191	47.82	-7.21	40.61	54.00	-13.39	AVG
11	15846.371	47.75	6.75	54.50	74.00	-19.50	peak
12	16031.014	47.36	-5.12	42.24	54.00	-11.76	AVG

Note: Marker ${\bf 5}$ and ${\bf 6}$ are intentionally radiated frequency from the EUT. Hence considered as PASS.

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result





Report No.: AAEMT/RF/240830-01-04

TEST RESULTS (Between 18000MHz - 26500 MHz)

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		

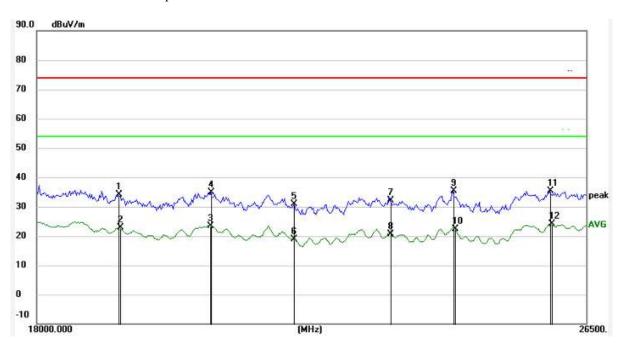




Report No.: AAEMT/RF/240830-01-04

Test at Channel 36 (5.180 GHz) in transmitting status

18000 MHz~26500 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19062.611	-7.02	41.20	34.18	74.00	-39.82	peak
2	19077.392	-7.02	29.86	22.84	54.00	-31.16	AVG
3	20329.273	-6.66	30.14	23.48	54.00	-30.52	AVG
4	20345.036	-6.65	41.59	34.94	74.00	-39.06	peak
5	21579.510	-6.35	37.23	30.88	74.00	-43.12	peak
6	21579.510	-6.35	25.31	18.96	54.00	-35.04	AVG
7	23084.875	-6.05	38.25	32.20	74.00	-41.80	peak
8	23102.774	-6.05	26.70	20.65	54.00	-33.35	AVG
9	24127.641	-5.85	41.28	35.43	74.00	-38.57	peak
10	24165.072	-5.84	28.23	22.39	54.00	-31.61	AVG
11	25830.774	-5.60	41.05	35.45	74.00	-38.55	peak
12	25850.803	-5.59	29.70	24.11	54.00	-29.89	AVG

- (3) Result = Reading + Correct Factor
- (4) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result Limit







Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		

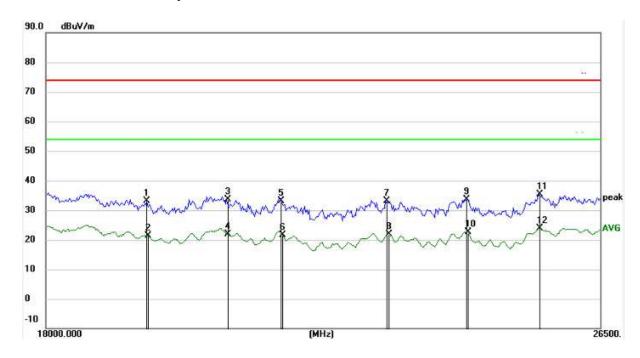




Report No.: AAEMT/RF/240830-01-04

Test at Channel 36 (5.180 GHz) in transmitting status

18000 MHz~26500 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	19315.454	-6.94	40.14	33.20	74.00	-40.80	peak
2	19330.431	-6.93	28.23	21.30	54.00	-32.70	AVG
3	20424.036	-6.63	40.19	33.56	74.00	-40.44	peak
4	20439.872	-6.63	28.42	21.79	54.00	-32.21	AVG
5	21214.653	-6.44	39.49	33.05	74.00	-40.95	peak
6	21231.103	-6.44	28.07	21.63	54.00	-32.37	AVG
7	22818.034	-6.09	39.10	33.01	74.00	-40.99	peak
8	22853.434	-6.08	28.06	21.98	54.00	-32.02	AVG
9	24146.349	-5.85	39.54	33.69	74.00	-40.31	peak
10	24165.072	-5.84	28.41	22.57	54.00	-31.43	AVG
11	25394.039	-5.66	41.09	35.43	74.00	-38.57	peak
12	25413.729	-5.65	29.55	23.90	54.00	-30.10	AVG

- (4) Result = Reading + Correct Factor
- (5) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (6) Margin = Result Limit





Report No.: AAEMT/RF/240830-01-04

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		



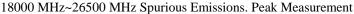


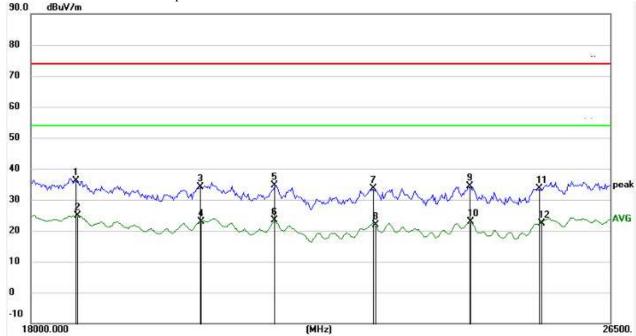


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Test at Channel 149 (5.745 GHz) in transmitting status





No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18538.051	-7.16	43.29	36.13	74.00	-37.87	peak
2	18552.425	-7.15	31.93	24.78	54.00	-29.22	AVG
3	20156.681	-6.71	40.84	34.13	74.00	-39.87	peak
4	20172.310	-6.70	29.55	22.85	54.00	-31.15	AVG
5	21181.792	-6.45	41.05	34.60	74.00	-39.40	peak
6	21181.792	-6.45	29.71	23.26	54.00	-30.74	AVG
7	22606.784	-6.13	39.78	33.65	74.00	-40.35	peak
8	22641.856	-6.12	28.06	21.94	54.00	-32.06	AVG
9	24108.947	-5.85	40.14	34.29	74.00	-39.71	peak
10	24127.641	-5.85	28.76	22.91	54.00	-31.09	AVG
11	25256.632	-5.68	39.20	33.52	74.00	-40.48	peak
12	25315.429	-5.67	28.06	22.39	54.00	-31.61	AVG

- (3) Result = Reading + Correct Factor
- (4) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result Limit







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EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		



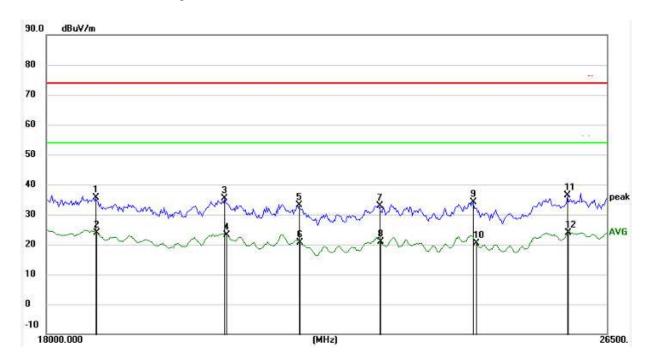




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Test at Channel 149 (5.745 GHz) in transmitting status

18000 MHz~26500 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	18624.464	-7.13	42.76	35.63	74.00	-38.37	peak
2	18638.905	-7.14	31.09	23.95	54.00	-30.05	AVG
3	20360.811	-6.65	42.04	35.39	74.00	-38.61	peak
4	20392.399	-6.64	29.70	23.06	54.00	-30.94	AVG
5	21412.895	-6.39	39.44	33.05	74.00	-40.95	peak
6	21446.114	-6.38	27.10	20.72	54.00	-33.28	AVG
7	22641.856	-6.12	39.04	32.92	74.00	-41.08	peak
8	22676.982	-6.11	26.90	20.79	54.00	-33.21	AVG
9	24165.072	-5.84	39.91	34.07	74.00	-39.93	peak
10	24221.328	-5.83	26.25	20.42	54.00	-33.58	AVG
11	25790.762	-5.60	42.07	36.47	74.00	-37.53	peak
12	25810.760	-5.60	29.55	23.95	54.00	-30.05	AVG

The test result is calculated as the following:

- (3) Result = Reading + Correct Factor
- (4) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result







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TEST RESULTS (Between 26500MHz – 40000 MHz)

EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)		

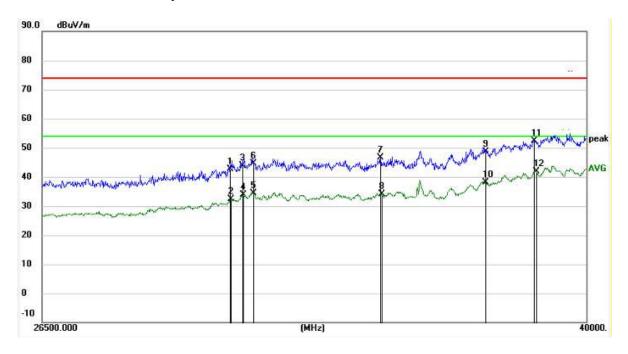




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Test at Channel 36 (5.180 GHz) in transmitting status

26500MHz - 40000 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30544.762	1.38	41.23	42.61	74.00	-31.39	peak
2	30557.341	1.38	31.00	32.38	54.00	-21.62	AVG
3	30848.090	1.44	42.53	43.97	74.00	-30.03	peak
4	30860.794	1.44	32.35	33.79	54.00	-20.21	AVG
5	31077.562	1.48	33.00	34.48	54.00	-19.52	AVG
6	31090.360	1.48	43.13	44.61	74.00	-29.39	peak
7	34234.836	1.99	44.52	46.51	74.00	-27.49	peak
8	34248.935	2.00	32.02	34.02	54.00	-19.98	AVG
9	37051.054	2.48	46.24	48.72	74.00	-25.28	peak
10	37051.054	2.48	35.76	38.24	54.00	-15.76	AVG
11	38465.612	2.71	49.63	52.34	74.00	-21.66	peak
12	38497.301	2.72	39.13	41.85	54.00	-12.15	AVG

The test result is calculated as the following:

- (5) Result = Reading + Correct Factor
- (6) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result Limit







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EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.180GHz)	_	

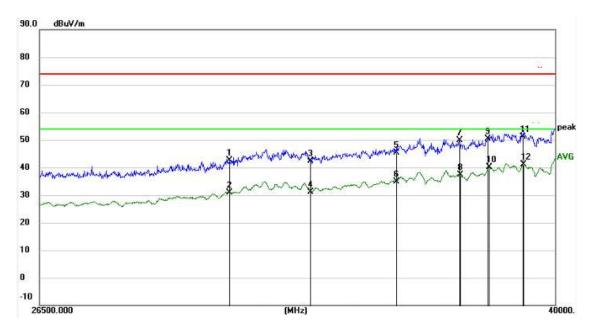




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Test at Channel 36 (5.180 GHz) in transmitting status

26500MHz - 40000 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30848.090	1.44	41.21	42.65	74.00	-31.35	peak
2	30848.090	1.44	29.51	30.95	54.00	-23.05	AVG
3	32894.500	1.80	40.48	42.28	74.00	-31.72	peak
4	32894.500	1.80	29.38	31.18	54.00	-22.82	AVG
5	35221.385	2.15	43.33	45.48	74.00	-28.52	peak
6	35221.385	2.15	32.74	34.89	54.00	-19.11	AVG
7	37051.054	2.48	47.32	49.80	74.00	-24.20	peak
8	37081.577	2.49	34.93	37.42	54.00	-16.58	AVG
9	37915.270	2.62	47.82	50.44	74.00	-23.56	peak
10	37930.885	2.62	37.54	40.16	54.00	-13.84	AVG
11	38975.770	2.79	48.38	51.17	74.00	-22.83	peak
12	38991.821	2.79	38.29	41.08	54.00	-12.92	AVG

The test result is calculated as the following:

- (7) Result = Reading + Correct Factor
- (8) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator
- (9) Margin = Result Limit







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EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		



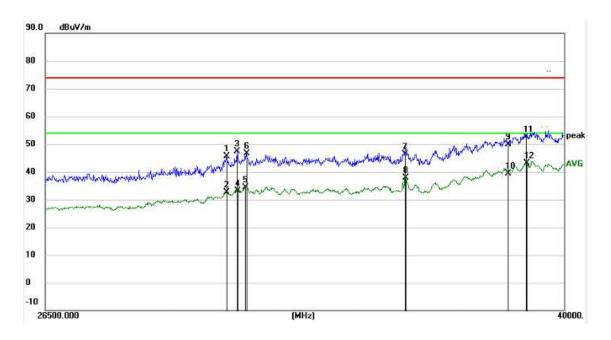


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Test at Channel 149 (5.745 GHz) in transmitting status

26500MHz - 40000 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30595.109	1.39	44.35	45.74	74.00	-28.26	peak
2	30595.109	1.39	31.17	32.56	54.00	-21.44	AVG
3	30860.794	1.44	46.02	47.46	74.00	-26.54	peak
4	30873.503	1.44	31.77	33.21	54.00	-20.79	AVG
5	31064.768	1.47	33.00	34.47	54.00	-19.53	AVG
6	31077.562	1.48	45.17	46.65	74.00	-27.35	peak
7	35250.401	2.15	44.19	46.34	74.00	-27.66	peak
8	35279.440	2.16	35.73	37.89	54.00	-16.11	AVG
9	38276.029	2.68	47.12	49.80	74.00	-24.20	peak
10	38276.029	2.68	36.76	39.44	54.00	-14.56	AVG
11	38799.645	2.76	49.83	52.59	74.00	-21.41	peak
12	38831.608	2.77	40.38	43.15	54.00	-10.85	AVG

The test result is calculated as the following:

- (5) Result = Reading + Correct Factor
- (6) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result Limit







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EUT:	Driveri	Model Name. :	D-450
Temperature:	25.4 °C	Relative Humidity:	53%
Distance:	3m	Test Power:	AC 110V/60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE)FCC PART 15E	Test By:	Aman
Test Mode:	Keeping TX mode (5.745GHz)		

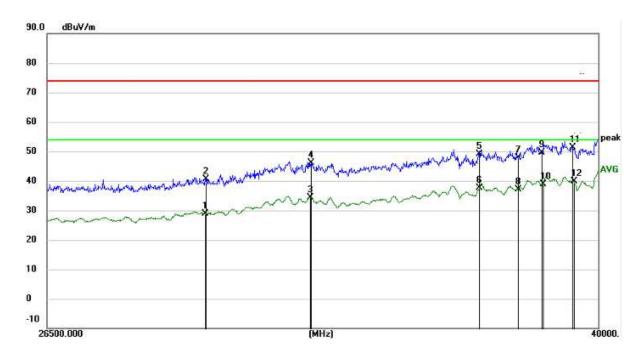




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Test at Channel 149 (5.745 GHz) in transmitting status

26500MHz - 40000 MHz Spurious Emissions. Peak Measurement



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	29811.698	1.22	27.59	28.81	54.00	-25.19	AVG
2	29823.975	1.23	39.28	40.51	74.00	-33.49	peak
3	32264.060	1.69	32.68	34.37	54.00	-19.63	AVG
4	32277.347	1.70	44.51	46.21	74.00	-27.79	peak
5	36581.148	2.40	46.74	49.14	74.00	-24.86	peak
6	36596.213	2.40	35.21	37.61	54.00	-16.39	AVG
7	37666.315	2.58	45.21	47.79	74.00	-26.21	peak
8	37666.315	2.58	34.65	37.23	54.00	-16.77	AVG
9	38354.908	2.70	47.02	49.72	74.00	-24.28	peak
10	38386.505	2.70	36.21	38.91	54.00	-15.09	AVG
11	39249.537	2.83	48.57	51.40	74.00	-22.60	peak
12	39281.871	2.83	37.03	39.86	54.00	-14.14	AVG

The test result is calculated as the following:

- (5) Result = Reading + Correct Factor
- (6) Correct Factor = Antenna Factor + Cable Loss Amplifier Gain + Attenuator Margin = Result





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The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

No any other emissions level very low which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

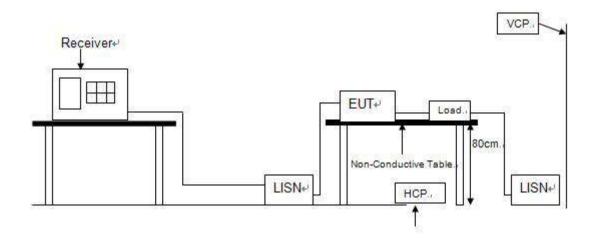




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9. POWER LINE CONDUCTED EMISSION

9.1. Block diagram of test setup



9.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)	
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*	
500kHz ~ 5MHz	56	46	
5MHz ~ 30MHz	60	50	

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.





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9.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

9.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: "----" means peak detection; "----" means average detection



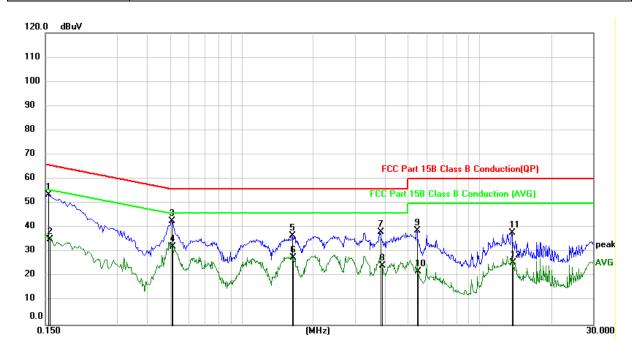




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EUT:	Driveri	Model Name. :	D-450
Temperature:	25.8°C	Relative Humidity:	52%
Probe:	Line	Test Power:	AC 110V/60Hz
Test Mode:	TX	Test Result:	Pass
Standard:	(CE)FCC PART 15 E OP		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1544	42.91	10.71	53.62	65.75	-12.13	QP
2		0.1564	24.56	10.80	35.36	55.65	-20.29	AVG
3		0.5100	31.82	10.90	42.72	56.00	-13.28	QP
4		0.5143	21.36	10.89	32.25	46.00	-13.75	AVG
5		1.6304	26.22	10.41	36.63	56.00	-19.37	QP
6		1.6484	17.21	10.41	27.62	46.00	-18.38	AVG
7		3.8490	27.76	10.59	38.35	56.00	-17.65	QP
8		3.8894	14.01	10.57	24.58	46.00	-21.42	AVG
9		5.4600	28.37	10.51	38.88	60.00	-21.12	QP
10		5.5274	11.46	10.51	21.97	50.00	-28.03	AVG
11		13.6320	26.98	10.84	37.82	60.00	-22.18	QP
12		13.7713	14.90	10.84	25.74	50.00	-24.26	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator
- (3) Margin = Result Limit





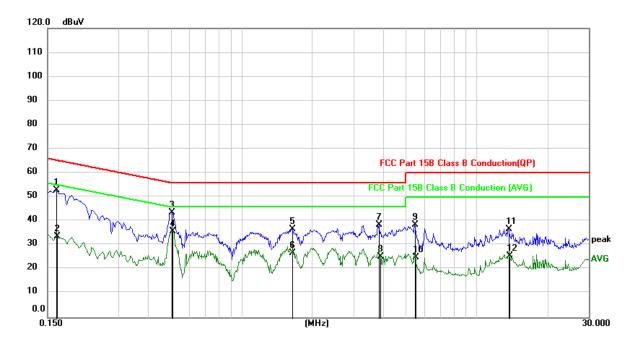


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EUT:	Driveri	Model Name. :	D-450
Temperature:	25.8°C	Relative Humidity:	52%
Probe:	Neutral	Test Power:	AC 110V/60Hz
Test Mode:	TX	Test Result:	Pass
Standard:	(CE)FCC PART 15 E_QP		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1635	41.93	10.89	52.82	65.28	-12.46	QP
2		0.1650	22.72	10.95	33.67	55.20	-21.53	AVG
3		0.5055	32.96	10.73	43.69	56.00	-12.31	QP
4	*	0.5100	25.07	10.73	35.80	46.00	-10.20	AVG
5		1.6394	26.52	10.31	36.83	56.00	-19.17	QP
6		1.6484	16.41	10.31	26.72	46.00	-19.28	AVG
7		3.8445	28.11	10.43	38.54	56.00	-17.46	QP
8		3.8894	14.94	10.41	25.35	46.00	-20.65	AVG
9		5.4555	28.39	10.29	38.68	60.00	-21.32	QP
10		5.4960	14.84	10.29	25.13	50.00	-24.87	AVG
11		13.6275	26.58	10.29	36.87	60.00	-23.13	QP
12		13.7759	15.33	10.29	25.62	50.00	-24.38	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator
- (3) Margin = Result Limit





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10. CONDUCTED SPURIOUS EMISSIONS

Test Requirement: FCC Part 15 C section 15.407

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10: Clause 6.7

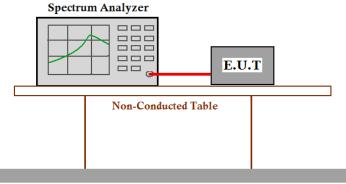
Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery. After pre-testing, we found the worst case is the test mode of

EUT power-supplied by using internal battery.

Test Configuration:



Ground Reference Plane

Test Procedure:

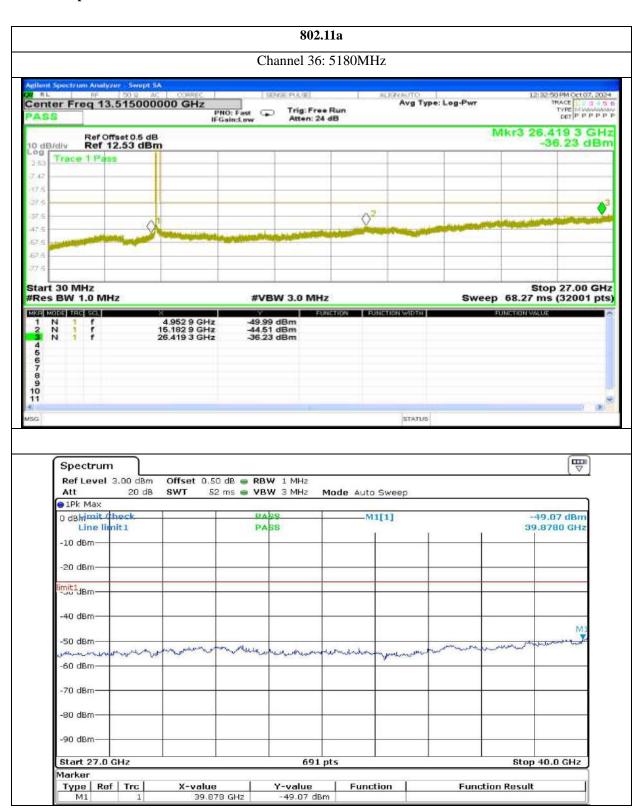
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
- 2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
- 3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worse case.





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Result plot as follows:



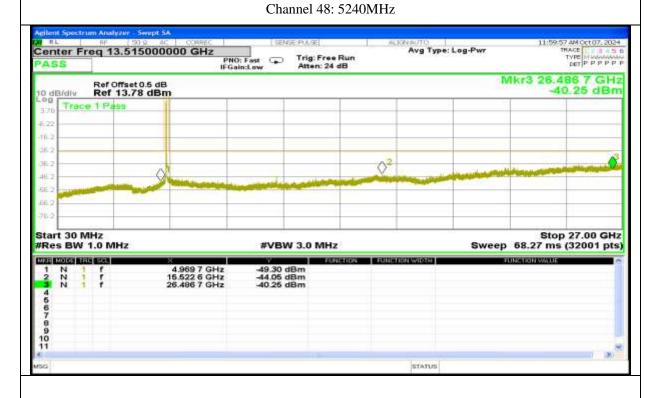


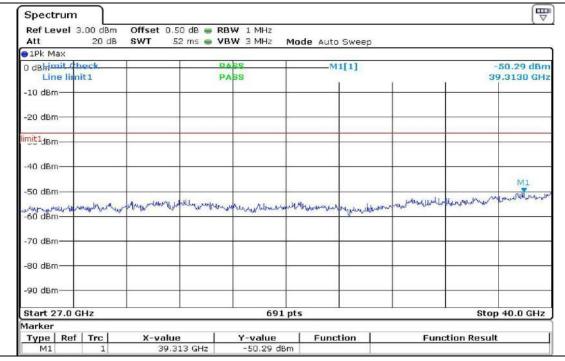




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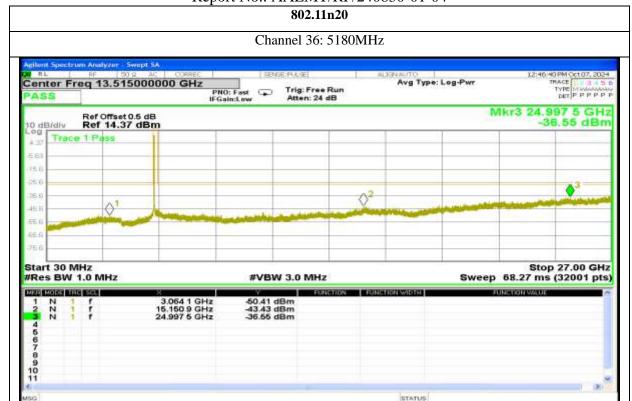


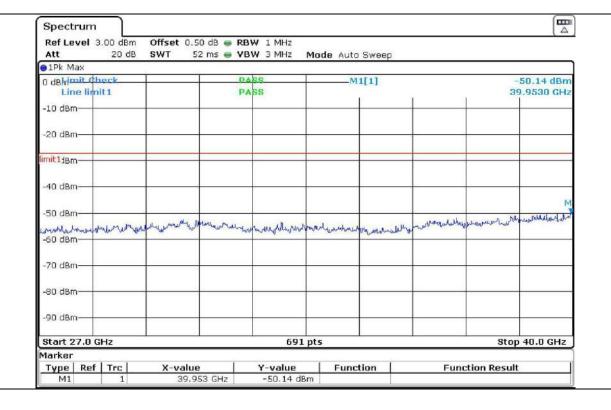






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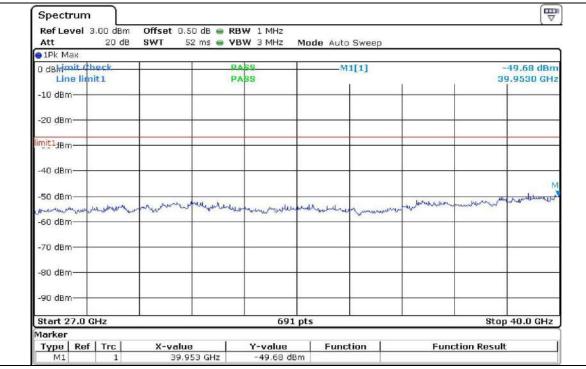






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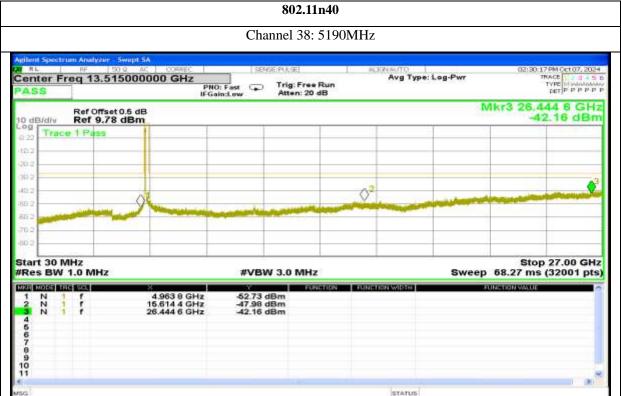


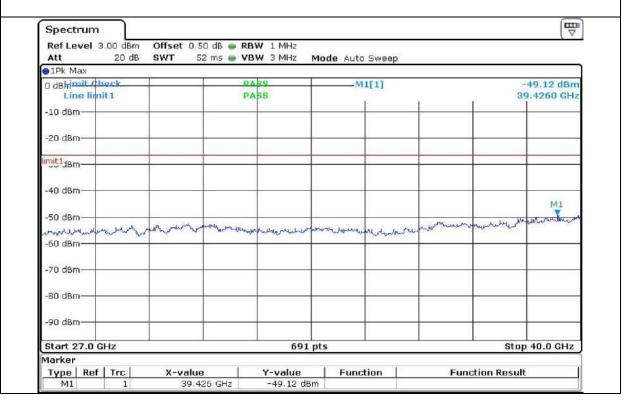




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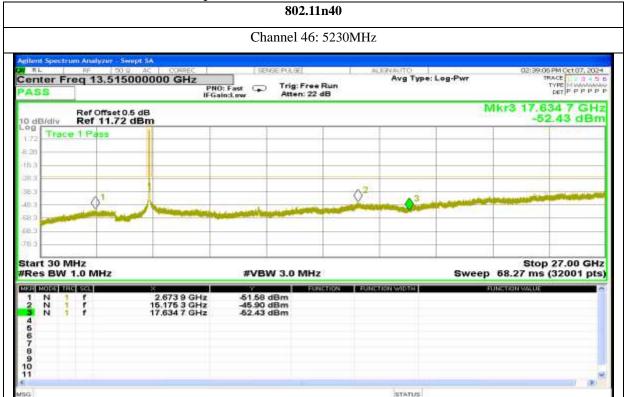


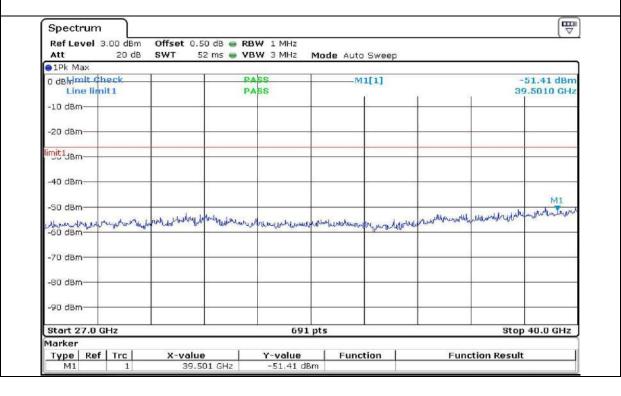






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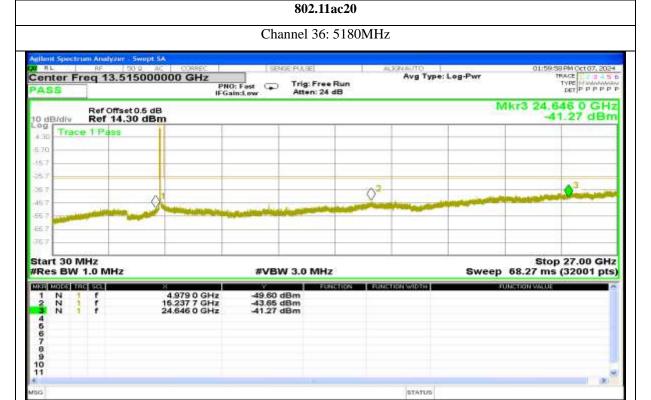


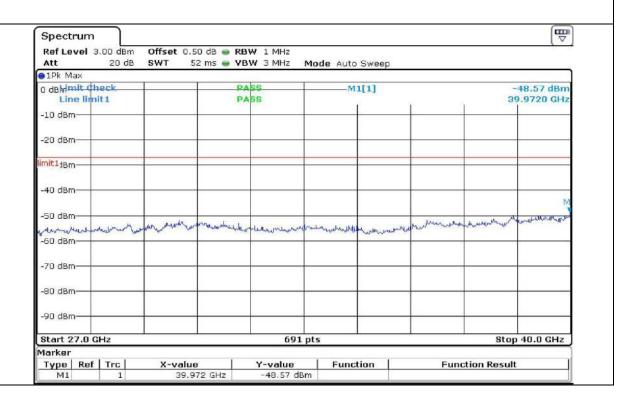




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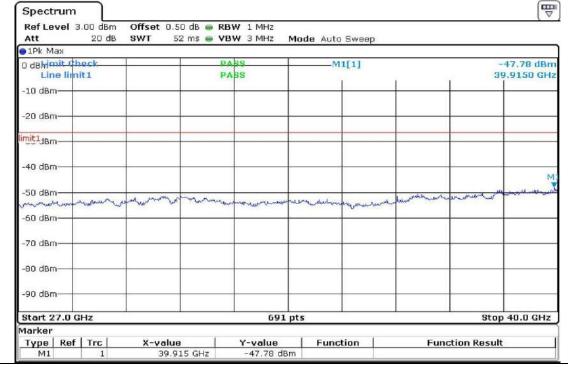






Certificate#5593.01



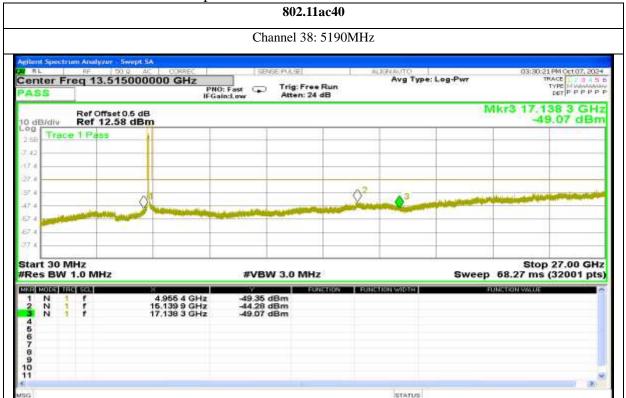


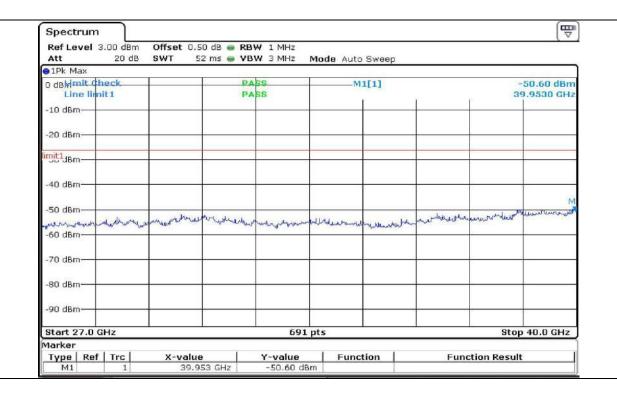






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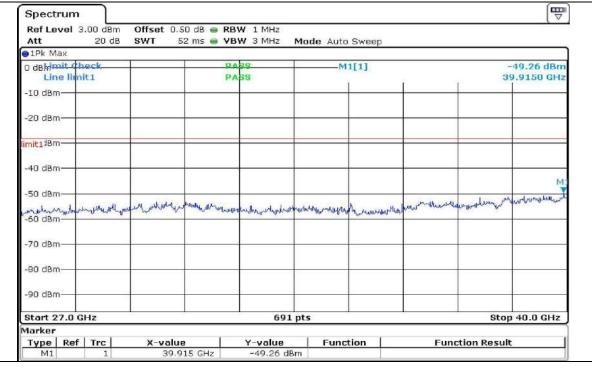






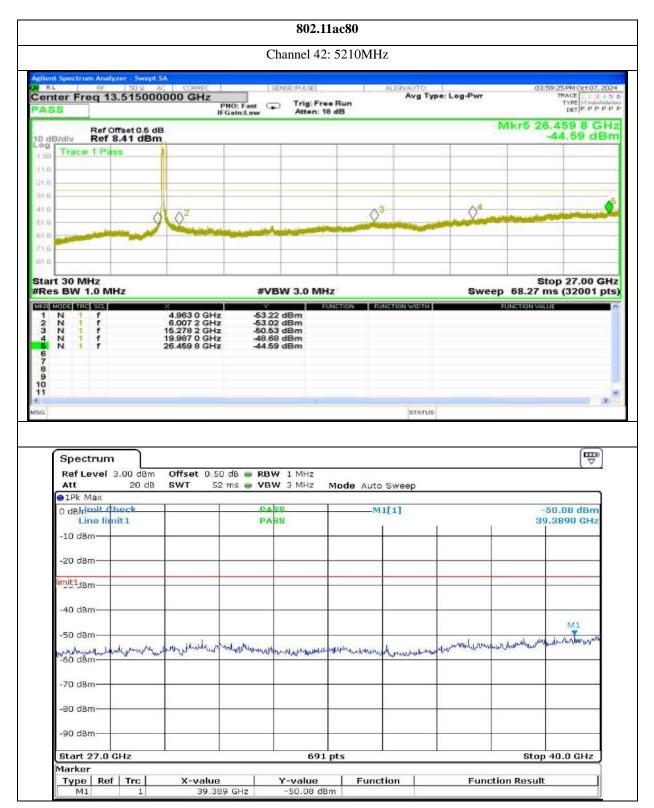
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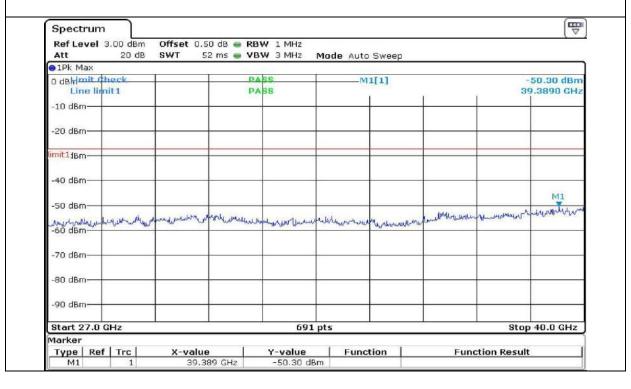






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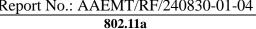


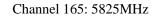




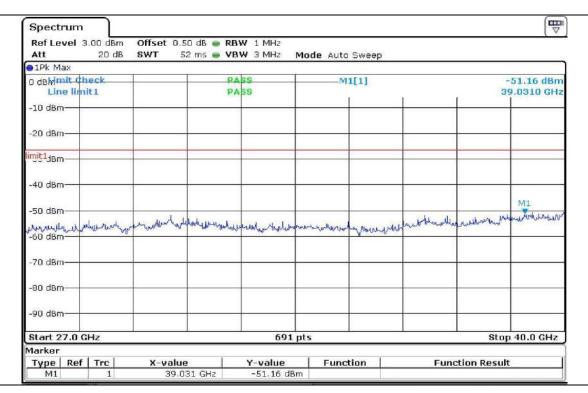


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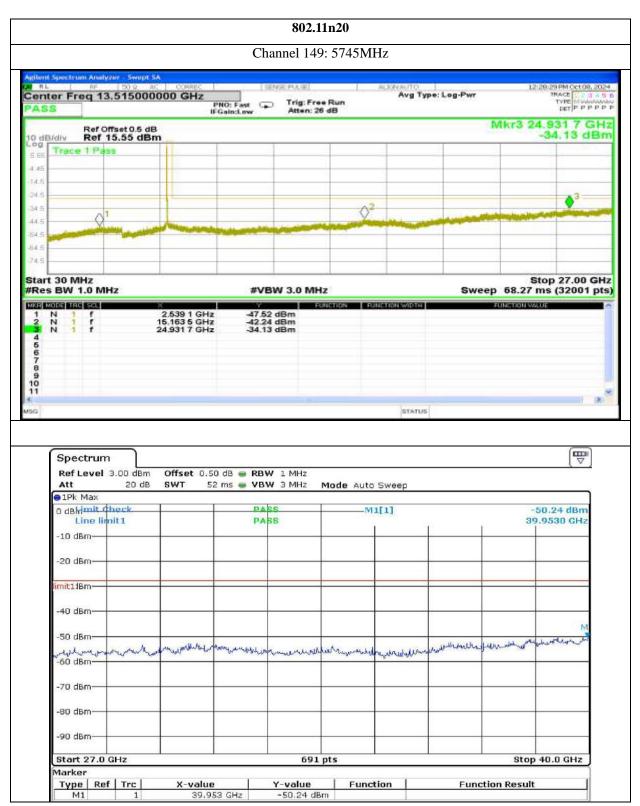






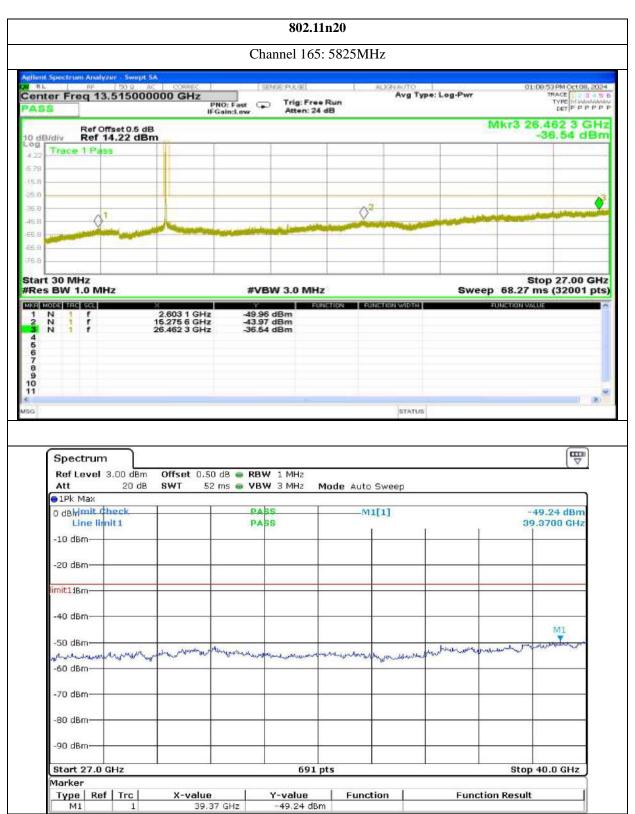










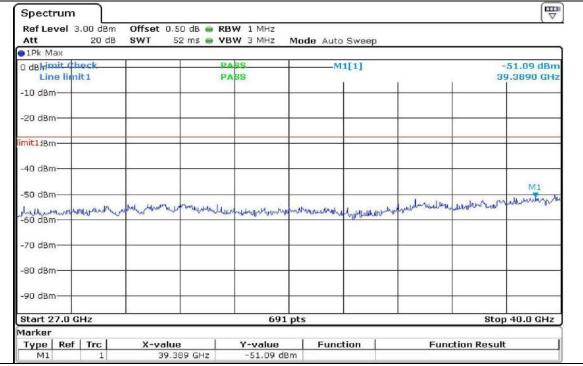






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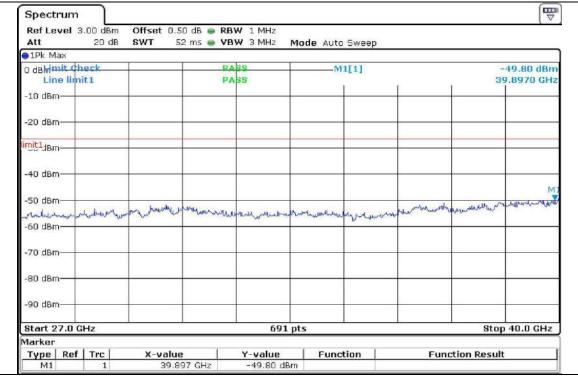






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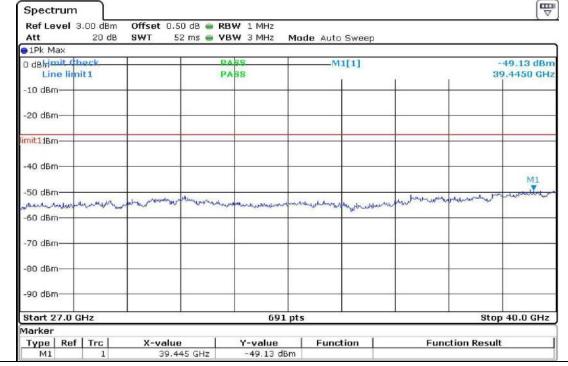






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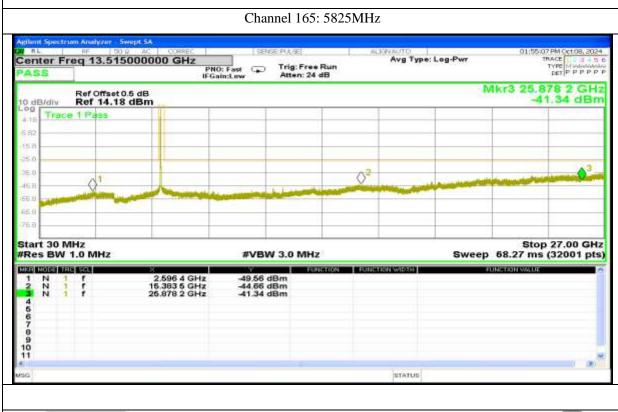


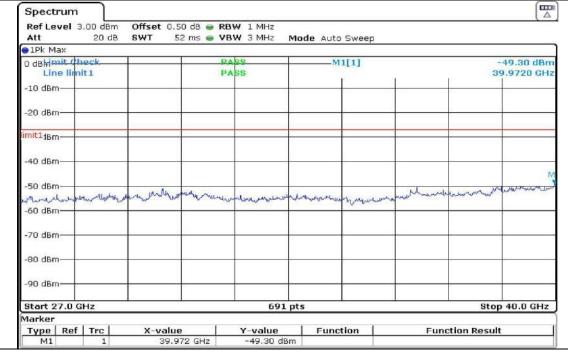




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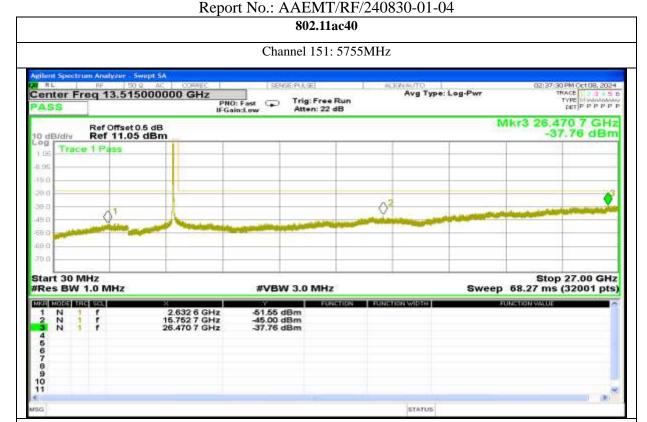


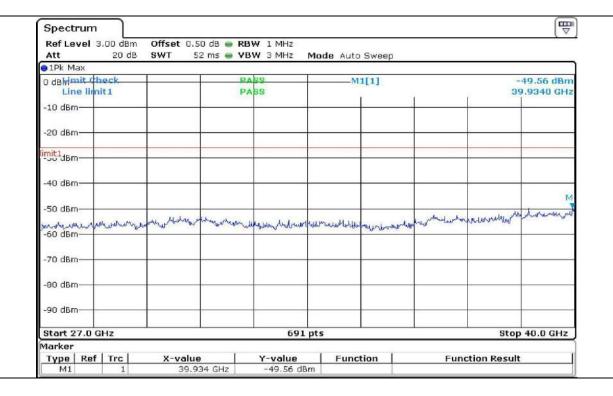




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Certificate#5593.01









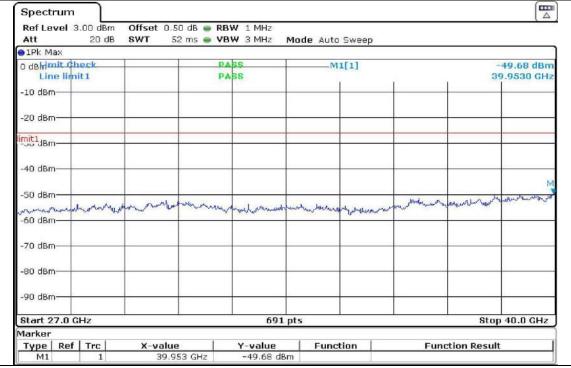






Certificate#5593.01









Certificate#5593.01

Report No.: AAEMT/RF/240830-01-04

11. ANTENNA REQUIREMENTS

11.1. Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

11.2. EUT ANTENNA

The antennas used for this product are Flexible PCB Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 5.5 dBi. and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.



End of Report