

Report No.: AAEMT/RF/231110-04-03

# FCC RADIO TEST REPORT

Part 15 subpart E

FCC ID: 2AZOI12XIH

Report Reference No.....: AAEMT/RF/231110-04-03

Date of issue.....: 2024-01-17

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 .....: HFCL limited

Address .....: Plot No. 38, Institutional Area, Sector 32, Gurugram,  
Haryana-122001, India

Manufacturer.....: HFCL limited

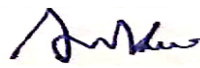
Plot No. 38, Institutional Area, Sector 32, Gurugram,  
Haryana-122001, India

Test item description.....: Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated  
Antenna (6 dBi) [DC powered]

Trade Mark .....: 

Model/Type reference .....: ion12xi\_h

Ratings .....: Input For EUT: DC+12V,5A(max)

Prepared By: (+ signature) Ankur Kumar 

Reviewed & Approved by: (+ signature)   
Dr. Lenin Raja (Authorized Representative) (/ lenin83/)

## TABLE OF CONTENTS

|      |                                                   |     |
|------|---------------------------------------------------|-----|
| 1.   | Summary of test results.....                      | 5   |
| 2.   | General test information .....                    | 6   |
| 2.1. | Description of EUT .....                          | 6   |
| 2.2. | Accessories of EUT .....                          | 7   |
| 2.3. | Assistant equipment used for test .....           | 7   |
| 3.   | Equipment's List for All Test Items .....         | 8   |
| 3.1. | Block diagram of EUT configuration for test ..... | 10  |
| 3.2. | Test environment conditions.....                  | 10  |
| 3.3. | Measurement uncertainty.....                      | 10  |
| 4.   | POWER SPECTRAL DENSITY TEST .....                 | 11  |
| 4.1. | Block diagram of test setup .....                 | 11  |
| 4.2. | Applied procedures / limit .....                  | 11  |
| 4.3. | Test Procedure .....                              | 12  |
| 4.4. | Test Result:.....                                 | 13  |
| 5.   | 26 dB & 99% Emission Bandwidth.....               | 237 |
| 5.1. | Block diagram of test setup .....                 | 237 |
| 5.2. | Applied procedures / limit .....                  | 237 |
| 5.3. | Test Procedure .....                              | 237 |
| 5.4. | Test Result .....                                 | 238 |
| 6.   | MAXIMUM CONDUCTED OUTPUT POWER.....               | 633 |
| 6.1. | Test Result .....                                 | 634 |
| 7.   | Band Edges Measurement .....                      | 850 |
| 7.1. | Test Result .....                                 | 851 |
| 8.   | RADIATED EMISSION MEASUREMENT .....               | 981 |
| 8.1. | Block diagram of test setup .....                 | 981 |
| 8.2. | Limit .....                                       | 983 |
| 8.3. | Test Procedure .....                              | 984 |
| 8.4. | Test result(Below 30MHz) .....                    | 986 |
| 9.   | Power Line Conducted Emission.....                | 992 |
| 9.1. | Block diagram of test setup .....                 | 992 |
| 9.2. | Power Line Conducted Emission Limits .....        | 992 |
| 9.3. | Test Procedure .....                              | 993 |
| 9.4. | Test Result .....                                 | 993 |

Report No.: AAEMT/RF/231110-04-03

|       |                                    |      |
|-------|------------------------------------|------|
| 10.   | Conducted Spurious Emissions ..... | 996  |
| 11.   | Antenna Requirements.....          | 1141 |
| 11.1. | Limit .....                        | 1141 |
| 11.2. | EUT ANTENNA.....                   | 1141 |



Report No.: AAEMT/RF/231110-04-03

## TEST REPORT DECLARE

|                      |   |                                                                                          |
|----------------------|---|------------------------------------------------------------------------------------------|
| Applicant            | : | HFCL limited                                                                             |
| Address              | : | Plot No. 38, Institutional Area, Sector 32, Gurugram, Haryana-122001, India              |
| Equipment under Test | : | Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated Antenna (6 dBi) [DC powered] |
| Model No             | : | ion12xi_h                                                                                |
| Trade Mark           | : |         |
| Manufacturer         | : | HFCL limited                                                                             |
| Address              | : | Plot No. 38, Institutional Area, Sector 32, Gurugram, Haryana-122001, India              |

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.**

|               |                              |                 |               |
|---------------|------------------------------|-----------------|---------------|
| Report No:    | AAEMT/RF/231110-04-03        |                 |               |
| Date of Test: | Nov. 10, 2023~ Jan. 05, 2024 | Date of Report: | Jan. 17, 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

Report No.: AAEMT/RF/231110-04-03

## 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    |

## 2. GENERAL TEST INFORMATION

### 2.1. DESCRIPTION OF EUT

|                                |   |                                                                                                                                                                                                                |
|--------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name                       | : | Wi-Fi 6 Dual Band 8x8:8 Indoor Access Point with Integrated Antenna (6 dBi) [DC powered]                                                                                                                       |
| Model Number                   | : | ion12xi_h                                                                                                                                                                                                      |
| Power supply                   | : | Input For EUT: DC+12V,5A(max)                                                                                                                                                                                  |
| Operation frequency            | : | WiFi:<br>802.11a/n (HT20)/ac (VHT20)/ax (HE20):<br>5180MHz~5240MHz; 5745MHz~5825MHz<br>802.11n (HT40)/ac (VHT40)/ax (HE40):<br>5190MHz~5230MHz; 5755MHz~5795MHz<br>802.11ac (VHT80)/ax (HE80):5210MHz; 5775MHz |
| Modulation                     | : | 802.11a/n: BPSK/QPSK/16QAM/64QAM<br>802.11ac/ax: BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM                                                                                                                          |
| Data Rate                      | : | 802.11a:6,9,12,18,24,36,48,54Mbps;<br>802.11ac(VHT20):MCS0-MCS9<br>802.11ac(VHT40/80):MCS0-MCS9<br>802.11n(VHT20):MCS0-MCS9;<br>802.11n(VHT40):MCS0-MCS9;<br>802.11ax(HE20/40/80):MCS0-MCS11                   |
| Antenna Type                   | : | Folded Monopole                                                                                                                                                                                                |
| Antenna gain                   | : | 5 dBi                                                                                                                                                                                                          |
| Antenna Function Description   | : | 802.11a<br>802.11n20/ac20/ax20<br>802.11n40/ac40/ax40<br>802.11ac80/ax80<br>ANT0,ANT1,ANT2,ANT3,<br>ANT4,ANT5,ANT6,ANT7                                                                                        |
| H/W No.                        | : | C1                                                                                                                                                                                                             |
| S/W No.                        | : | 1.0.0.25                                                                                                                                                                                                       |
| Battery                        | : | N/A                                                                                                                                                                                                            |
| Date of Receipt                | : | Nov. 11, 2023                                                                                                                                                                                                  |
| Condition of Sample on receipt | : | Good                                                                                                                                                                                                           |
| Note:                          | : | 1 .For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.<br>2. Antenna gain and antenna type provided by manufacturer.                             |
| Opinions and Interpretations:  | : | See the specific Note / Annexure if any in the whole /full report.                                                                                                                                             |

| Channel List            |                 |         |                 |         |                 |         |                 |
|-------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 802.11a/n/ac/ax (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/ac/ax (40MHz)   |                 |         |                 |         |                 |         |                 |
| Channel                 | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 38                      | 5190            | 46      | 5230            | 151     | 5755            | 159     | 5795            |
| 802.11ac/ax (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              |
|----------------------------|---------------|--------------|---------------------|
| DC Adaptor                 | -             | -            | 1m unshielded Cable |

## 2.3. ASSISTANT EQUIPMENT USED FOR TEST

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

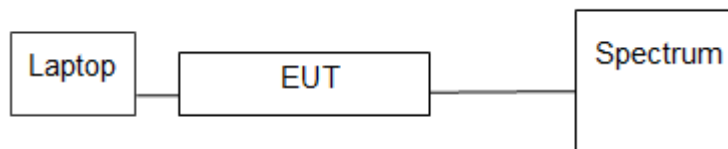
### 3.EQUIPMENT'S LIST FOR ALL TEST ITEMS

| No | Test Equipment        | Manufacturer      | Model No    | Serial No  | Cal. Date  | Cal.Due Date |
|----|-----------------------|-------------------|-------------|------------|------------|--------------|
| 1  | Spectrum Analyzer     | Rohde and Schwarz | FSP         | 101163     | 2022/02/08 | 2024/02/07   |
| 2  | Loop antenna          | DAZE Beijing      | ZN30900C    | 18052      | 2021/09/15 | 2023/09/15   |
| 3  | Hi power horn antenna | DAZE Beijing      | ZN30700     | 18012      | 2021/09/15 | 2023/09/15   |
| 4  | MXA Signal Analyzer   | Keysight          | N9020A      | 6272323218 | 2022/07/27 | 2023/07/26   |
| 5  | Horn antenna          | DAZE Beijing      | ZN30703     | 18005      | 2021/09/15 | 2023/09/15   |
| 6  | Pre amplifier         | KELIANDA          | LNA-0009295 | -          | 2023/01/13 | 2024/01/13   |
| 7  | Pre amplifier         | KELIANDA          | CF-00218    | -          | 2023/01/13 | 2024/01/13   |
| 8  | Biconical Antenna     | DAZE Beijing      | ZN30505C    | 17038      | 2021/09/15 | 2023/09/15   |
| 9  | EMI-RECEIVER          | Schwarzbeck       | FCKL        | 1528194    | 2023/01/13 | 2024/01/13   |
| 10 | LISN                  | Kyoritsu          | KNW-407     | 8-1789-5   | 2023/01/13 | 2024/01/13   |

|    |                             |                   |          |            |            |            |
|----|-----------------------------|-------------------|----------|------------|------------|------------|
| 11 | Network-LISN                | SCHWAR ZBECK      | NNBM8125 | 81251314   | 2023/01/13 | 2024/01/13 |
| 12 | Network-LISN                | SCHWAR ZBECK      | NNBM8125 | 81251315   | 2023/01/13 | 2024/01/13 |
| 13 | PULSELIMITER                | Rohde and Schwarz | ESH3-Z2  | 100681     | 2023/01/13 | 2024/01/13 |
| 14 | 50Ω Coaxial Switch          | DAIWA             | 1565157  | -          | 2023/01/13 | 2024/01/13 |
| 15 | 50Ω Coaxial Switch          | -                 | -        | -          | 2023/01/13 | 2024/01/13 |
| 16 | Wireless signal power meter | DARE!!            | RPR3006W | RFSW190220 | 2023/01/13 | 2024/01/13 |
| 17 | Signal Generator            | KEYSIGHT          | N5181A   | 512071     | 2023/01/13 | 2024/01/13 |

|    |                             |                                |           |                          |            |            |
|----|-----------------------------|--------------------------------|-----------|--------------------------|------------|------------|
| 18 | RF Vector Signal Generator  | Keysight                       | N5182B    | 512094                   | 2023/01/13 | 2024/01/13 |
| 19 | Spectrum analyzer           | R&S                            | FSV-40N   | 101385                   | 2023/01/13 | 2024/01/13 |
| 20 | Radio Communication Tester  | R&S                            | CMW 500   | 124589                   | 2021/09/15 | 2023/09/15 |
| 21 | Signal Generator            | R&S                            | SMP02     | 837017/004<br>836593/005 | 2021/09/15 | 2023/09/15 |
| 22 | DC Regulated Power          | Mettravi                       | RPS-3005  | 669076                   | 2022/12/13 | 2023/12/12 |
| 23 | Climatic Chamber            | Sunrise Scientific Instruments | -         | -                        | 2022/11/22 | 2023/11/21 |
| 24 | Attenuators                 | AGILENT                        | 8494B     | -                        | -          | -          |
| 25 | Attenuators                 | AGILENT                        | 8495B     | -                        | -          | -          |
| 26 | Wireless signal power meter | Dare                           | RPR 3006W | RSW190220                | 2023/01/13 | 2024/01/13 |

### 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 |

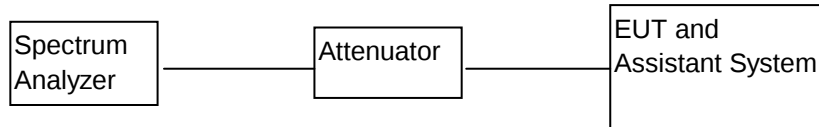
### 3.3. MEASUREMENT UNCERTAINTY

| 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.

## 4. POWER SPECTRAL DENSITY TEST

### 4.1. BLOCK DIAGRAM OF TEST SETUP



### 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..

#### 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.1.a).
- b) Set  $VBW \geq 3$  RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/RBW)$  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  $10\log(1\text{MHz}/RBW)$  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.

#### 4.4. TEST RESULT:

##### Antenna 0:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 14.55                      | 17                 | Pass   |
| CH40               | 5200      | 14.91                      | 17                 | Pass   |
| CH48               | 5240      | 15.53                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.68                      | 17                 | Pass   |
| CH40               | 5200      | 14.89                      | 17                 | Pass   |
| CH48               | 5240      | 15.79                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 11.49                      | 17                 | Pass   |
| CH46               | 5230      | 12.29                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 14.28                      | 17                 | Pass   |
| CH40               | 5200      | 14.83                      | 17                 | Pass   |
| CH48               | 5240      | 14.91                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.23                      | 17                 | Pass   |
| CH46               | 5230      | 11.88                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.45                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 15.03                      | 17                 | Pass   |
| CH40               | 5200      | 15.09                      | 17                 | Pass   |
| CH48               | 5240      | 16.39                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 12.62                      | 17                 | Pass   |
| CH46               | 5230      | 12.77                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 9.09                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 9.84                  | 30                    | Pass   |
| CH 157             | 5785      | 10.06                 | 30                    | Pass   |
| CH 165             | 5825      | 10.36                 | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 9.89                  | 30                    | Pass   |
| CH 157             | 5785      | 10.44                 | 30                    | Pass   |
| CH 165             | 5825      | 9.88                  | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 9.37                  | 30                    | Pass   |
| CH159              | 5795      | 7.84                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 9.66                  | 30                    | Pass   |
| CH 157             | 5785      | 10.36                 | 30                    | Pass   |
| CH 165             | 5825      | 10.67                 | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 9.23                  | 30                    | Pass   |
| CH159              | 5795      | 8.17                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 7.97                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.44                 | 30                    | Pass   |
| CH 157             | 5785      | 10.65                 | 30                    | Pass   |
| CH 165             | 5825      | 10.42                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 9.63                  | 30                    | Pass   |
| CH159              | 5795      | 8.10                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 8.67                  | 30                    | Pass   |

### Antenna 1:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 13.53                      | 17                 | Pass   |
| CH40               | 5200      | 14.04                      | 17                 | Pass   |
| CH48               | 5240      | 15.15                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.93                      | 17                 | Pass   |
| CH40               | 5200      | 14.20                      | 17                 | Pass   |
| CH48               | 5240      | 14.75                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 11.47                      | 17                 | Pass   |
| CH46               | 5230      | 12.45                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 13.59                      | 17                 | Pass   |
| CH40               | 5200      | 14.64                      | 17                 | Pass   |
| CH48               | 5240      | 14.43                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 10.88                      | 17                 | Pass   |
| CH46               | 5230      | 11.13                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.04                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 14.55                      | 17                 | Pass   |
| CH40               | 5200      | 14.84                      | 17                 | Pass   |
| CH48               | 5240      | 15.63                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.58                      | 17                 | Pass   |
| CH46               | 5230      | 13.02                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.96                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 9.23                  | 30                    | Pass   |
| CH 157             | 5785      | 9.70                  | 30                    | Pass   |
| CH 165             | 5825      | 9.63                  | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 9.51                  | 30                    | Pass   |
| CH 157             | 5785      | 9.31                  | 30                    | Pass   |
| CH 165             | 5825      | 9.34                  | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 7.85                  | 30                    | Pass   |
| CH159              | 5795      | 6.43                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 9.89                  | 30                    | Pass   |
| CH 157             | 5785      | 9.34                  | 30                    | Pass   |
| CH 165             | 5825      | 10.14                 | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.09                  | 30                    | Pass   |
| CH159              | 5795      | 6.54                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 6.47                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.26                 | 30                    | Pass   |
| CH 157             | 5785      | 9.99                  | 30                    | Pass   |
| CH 165             | 5825      | 10.70                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 9.07                  | 30                    | Pass   |
| CH159              | 5795      | 7.45                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 7.38                  | 30                    | Pass   |

### Antenna 2:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 14.32                      | 17                 | Pass   |
| CH40               | 5200      | 14.77                      | 17                 | Pass   |
| CH48               | 5240      | 14.99                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.87                      | 17                 | Pass   |
| CH40               | 5200      | 14.32                      | 17                 | Pass   |
| CH48               | 5240      | 14.76                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 10.92                      | 17                 | Pass   |
| CH46               | 5230      | 11.94                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 13.73                      | 17                 | Pass   |
| CH40               | 5200      | 13.87                      | 17                 | Pass   |
| CH48               | 5240      | 15.00                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.36                      | 17                 | Pass   |
| CH46               | 5230      | 11.83                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 7.94                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 15.40                      | 17                 | Pass   |
| CH40               | 5200      | 15.08                      | 17                 | Pass   |
| CH48               | 5240      | 16.25                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 12.40                      | 17                 | Pass   |
| CH46               | 5230      | 12.83                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 9.46                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 10.02                 | 30                    | Pass   |
| CH 157             | 5785      | 9.67                  | 30                    | Pass   |
| CH 165             | 5825      | 10.74                 | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 10.11                 | 30                    | Pass   |
| CH 157             | 5785      | 9.31                  | 30                    | Pass   |
| CH 165             | 5825      | 10.43                 | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 7.95                  | 30                    | Pass   |
| CH159              | 5795      | 7.00                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.36                 | 30                    | Pass   |
| CH 157             | 5785      | 9.38                  | 30                    | Pass   |
| CH 165             | 5825      | 10.86                 | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 7.69                  | 30                    | Pass   |
| CH159              | 5795      | 6.36                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 6.45                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.42                 | 30                    | Pass   |
| CH 157             | 5785      | 10.51                 | 30                    | Pass   |
| CH 165             | 5825      | 10.77                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 9.14                  | 30                    | Pass   |
| CH159              | 5795      | 7.83                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 8.09                  | 30                    | Pass   |

### Antenna 3:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 14.12                      | 17                 | Pass   |
| CH40               | 5200      | 14.32                      | 17                 | Pass   |
| CH48               | 5240      | 14.79                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.58                      | 17                 | Pass   |
| CH40               | 5200      | 14.12                      | 17                 | Pass   |
| CH48               | 5240      | 15.28                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 11.35                      | 17                 | Pass   |
| CH46               | 5230      | 12.24                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 13.37                      | 17                 | Pass   |
| CH40               | 5200      | 14.01                      | 17                 | Pass   |
| CH48               | 5240      | 14.57                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.09                      | 17                 | Pass   |
| CH46               | 5230      | 11.64                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.00                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 15.00                      | 17                 | Pass   |
| CH40               | 5200      | 15.71                      | 17                 | Pass   |
| CH48               | 5240      | 15.80                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.82                      | 17                 | Pass   |
| CH46               | 5230      | 12.94                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 9.22                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 9.18                  | 30                    | Pass   |
| CH 157             | 5785      | 9.50                  | 30                    | Pass   |
| CH 165             | 5825      | 9.33                  | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 8.88                  | 30                    | Pass   |
| CH 157             | 5785      | 8.97                  | 30                    | Pass   |
| CH 165             | 5825      | 9.93                  | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 7.70                  | 30                    | Pass   |
| CH159              | 5795      | 6.04                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 9.56                  | 30                    | Pass   |
| CH 157             | 5785      | 9.64                  | 30                    | Pass   |
| CH 165             | 5825      | 9.05                  | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.15                  | 30                    | Pass   |
| CH159              | 5795      | 6.54                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 6.78                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.68                 | 30                    | Pass   |
| CH 157             | 5785      | 10.49                 | 30                    | Pass   |
| CH 165             | 5825      | 10.56                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.83                  | 30                    | Pass   |
| CH159              | 5795      | 7.10                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 7.26                  | 30                    | Pass   |

#### Antenna 4:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 14.42                      | 17                 | Pass   |
| CH40               | 5200      | 14.74                      | 17                 | Pass   |
| CH48               | 5240      | 15.52                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 14.28                      | 17                 | Pass   |
| CH40               | 5200      | 14.49                      | 17                 | Pass   |
| CH48               | 5240      | 15.75                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 11.32                      | 17                 | Pass   |
| CH46               | 5230      | 11.77                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 13.57                      | 17                 | Pass   |
| CH40               | 5200      | 14.41                      | 17                 | Pass   |
| CH48               | 5240      | 15.13                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.55                      | 17                 | Pass   |
| CH46               | 5230      | 12.15                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.01                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 15.04                      | 17                 | Pass   |
| CH40               | 5200      | 15.26                      | 17                 | Pass   |
| CH48               | 5240      | 15.81                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 12.33                      | 17                 | Pass   |
| CH46               | 5230      | 13.63                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 10.25                      | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 9.11                  | 30                    | Pass   |
| CH 157             | 5785      | 9.98                  | 30                    | Pass   |
| CH 165             | 5825      | 9.31                  | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 9.98                  | 30                    | Pass   |
| CH 157             | 5785      | 9.86                  | 30                    | Pass   |
| CH 165             | 5825      | 10.27                 | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 8.79                  | 30                    | Pass   |
| CH159              | 5795      | 6.68                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.00                 | 30                    | Pass   |
| CH 157             | 5785      | 9.64                  | 30                    | Pass   |
| CH 165             | 5825      | 9.63                  | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 9.61                  | 30                    | Pass   |
| CH159              | 5795      | 7.16                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 7.30                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.42                 | 30                    | Pass   |
| CH 157             | 5785      | 10.55                 | 30                    | Pass   |
| CH 165             | 5825      | 10.35                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 9.37                  | 30                    | Pass   |
| CH159              | 5795      | 8.14                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 8.80                  | 30                    | Pass   |

Report No.: AAEMT/RF/231110-04-03

### Antenna 5:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 13.66                      | 17                 | Pass   |
| CH40               | 5200      | 14.56                      | 17                 | Pass   |
| CH48               | 5240      | 15.07                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.85                      | 17                 | Pass   |
| CH40               | 5200      | 14.46                      | 17                 | Pass   |
| CH48               | 5240      | 14.62                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 10.87                      | 17                 | Pass   |
| CH46               | 5230      | 11.23                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 13.98                      | 17                 | Pass   |
| CH40               | 5200      | 13.91                      | 17                 | Pass   |
| CH48               | 5240      | 14.96                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.19                      | 17                 | Pass   |
| CH46               | 5230      | 10.90                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 7.61                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 14.66                      | 17                 | Pass   |
| CH40               | 5200      | 14.73                      | 17                 | Pass   |
| CH48               | 5240      | 15.10                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.80                      | 17                 | Pass   |
| CH46               | 5230      | 12.41                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.63                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 9.94                  | 30                    | Pass   |
| CH 157             | 5785      | 10.37                 | 30                    | Pass   |
| CH 165             | 5825      | 10.17                 | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 9.59                  | 30                    | Pass   |
| CH 157             | 5785      | 9.48                  | 30                    | Pass   |
| CH 165             | 5825      | 9.66                  | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 7.89                  | 30                    | Pass   |
| CH159              | 5795      | 6.92                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 9.94                  | 30                    | Pass   |
| CH 157             | 5785      | 9.88                  | 30                    | Pass   |
| CH 165             | 5825      | 10.63                 | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.04                  | 30                    | Pass   |
| CH159              | 5795      | 6.79                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 6.26                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.27                 | 30                    | Pass   |
| CH 157             | 5785      | 10.14                 | 30                    | Pass   |
| CH 165             | 5825      | 10.52                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.79                  | 30                    | Pass   |
| CH159              | 5795      | 8.98                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 7.38                  | 30                    | Pass   |

### Antenna 6:

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 14.47                      | 17                 | Pass   |
| CH40               | 5200      | 14.86                      | 17                 | Pass   |
| CH48               | 5240      | 14.74                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.88                      | 17                 | Pass   |
| CH40               | 5200      | 15.03                      | 17                 | Pass   |
| CH48               | 5240      | 14.42                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 11.41                      | 17                 | Pass   |
| CH46               | 5230      | 11.48                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 14.62                      | 17                 | Pass   |
| CH40               | 5200      | 14.70                      | 17                 | Pass   |
| CH48               | 5240      | 15.35                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.42                      | 17                 | Pass   |
| CH46               | 5230      | 11.45                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.07                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 14.62                      | 17                 | Pass   |
| CH40               | 5200      | 15.66                      | 17                 | Pass   |
| CH48               | 5240      | 15.95                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 12.41                      | 17                 | Pass   |
| CH46               | 5230      | 13.14                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 9.86                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 10.29                 | 30                    | Pass   |
| CH 157             | 5785      | 8.98                  | 30                    | Pass   |
| CH 165             | 5825      | 10.40                 | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 9.47                  | 30                    | Pass   |
| CH 157             | 5785      | 9.66                  | 30                    | Pass   |
| CH 165             | 5825      | 10.04                 | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 8.77                  | 30                    | Pass   |
| CH159              | 5795      | 6.88                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.13                 | 30                    | Pass   |
| CH 157             | 5785      | 8.94                  | 30                    | Pass   |
| CH 165             | 5825      | 10.40                 | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.68                  | 30                    | Pass   |
| CH159              | 5795      | 7.36                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 6.70                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.13                 | 30                    | Pass   |
| CH 157             | 5785      | 10.48                 | 30                    | Pass   |
| CH 165             | 5825      | 10.64                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.37                  | 30                    | Pass   |
| CH159              | 5795      | 7.24                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 7.37                  | 30                    | Pass   |

**Antenna 7:**

| CH. No.            | Frequency | Power density<br>(dBm/MHz) | Limit<br>(dBm/MHz) | Result |
|--------------------|-----------|----------------------------|--------------------|--------|
| TX 802.11a Mode    |           |                            |                    |        |
| CH36               | 5180      | 14.11                      | 17                 | Pass   |
| CH40               | 5200      | 14.73                      | 17                 | Pass   |
| CH48               | 5240      | 15.24                      | 17                 | Pass   |
| TX 802.11n20 Mode  |           |                            |                    |        |
| CH36               | 5180      | 13.91                      | 17                 | Pass   |
| CH40               | 5200      | 14.84                      | 17                 | Pass   |
| CH48               | 5240      | 14.90                      | 17                 | Pass   |
| TX 802.11n40 Mode  |           |                            |                    |        |
| CH38               | 5190      | 11.73                      | 17                 | Pass   |
| CH46               | 5230      | 11.61                      | 17                 | Pass   |
| TX 802.11ac20 Mode |           |                            |                    |        |
| CH36               | 5180      | 13.91                      | 17                 | Pass   |
| CH40               | 5200      | 14.46                      | 17                 | Pass   |
| CH48               | 5240      | 14.71                      | 17                 | Pass   |
| TX 802.11ac40 Mode |           |                            |                    |        |
| CH38               | 5190      | 11.09                      | 17                 | Pass   |
| CH46               | 5230      | 11.43                      | 17                 | Pass   |
| TX 802.11ac80 Mode |           |                            |                    |        |
| CH42               | 5210      | 8.78                       | 17                 | Pass   |
| TX 802.11ax20 Mode |           |                            |                    |        |
| CH36               | 5180      | 14.51                      | 17                 | Pass   |
| CH40               | 5200      | 15.32                      | 17                 | Pass   |
| CH48               | 5240      | 16.04                      | 17                 | Pass   |
| TX 802.11ax40 Mode |           |                            |                    |        |
| CH38               | 5190      | 12.73                      | 17                 | Pass   |
| CH46               | 5230      | 12.73                      | 17                 | Pass   |
| TX 802.11ax80 Mode |           |                            |                    |        |
| CH42               | 5210      | 9.23                       | 17                 | Pass   |

| CH. No.            | Frequency | Limit<br>(dBm/500KHz) | Limit<br>(dBm/500KHz) | Result |
|--------------------|-----------|-----------------------|-----------------------|--------|
| TX 802.11a Mode    |           |                       |                       |        |
| CH 149             | 5745      | 9.23                  | 30                    | Pass   |
| CH 157             | 5785      | 8.64                  | 30                    | Pass   |
| CH 165             | 5825      | 9.35                  | 30                    | Pass   |
| TX 802.11n20 Mode  |           |                       |                       |        |
| CH 149             | 5745      | 8.44                  | 30                    | Pass   |
| CH 157             | 5785      | 9.12                  | 30                    | Pass   |
| CH 165             | 5825      | 9.02                  | 30                    | Pass   |
| TX 802.11n40 Mode  |           |                       |                       |        |
| CH151              | 5755      | 8.19                  | 30                    | Pass   |
| CH159              | 5795      | 6.35                  | 30                    | Pass   |
| TX 802.11ac20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 9.04                  | 30                    | Pass   |
| CH 157             | 5785      | 8.94                  | 30                    | Pass   |
| CH 165             | 5825      | 9.14                  | 30                    | Pass   |
| TX 802.11ac40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.41                  | 30                    | Pass   |
| CH159              | 5795      | 5.73                  | 30                    | Pass   |
| TX 802.11ac80 Mode |           |                       |                       |        |
| CH155              | 5775      | 6.17                  | 30                    | Pass   |
| TX 802.11ax20 Mode |           |                       |                       |        |
| CH 149             | 5745      | 10.45                 | 30                    | Pass   |
| CH 157             | 5785      | 9.75                  | 30                    | Pass   |
| CH 165             | 5825      | 10.42                 | 30                    | Pass   |
| TX 802.11ax40 Mode |           |                       |                       |        |
| CH151              | 5755      | 8.93                  | 30                    | Pass   |
| CH159              | 5795      | 7.93                  | 30                    | Pass   |
| TX 802.11ax80 Mode |           |                       |                       |        |
| CH155              | 5775      | 8.01                  | 30                    | Pass   |

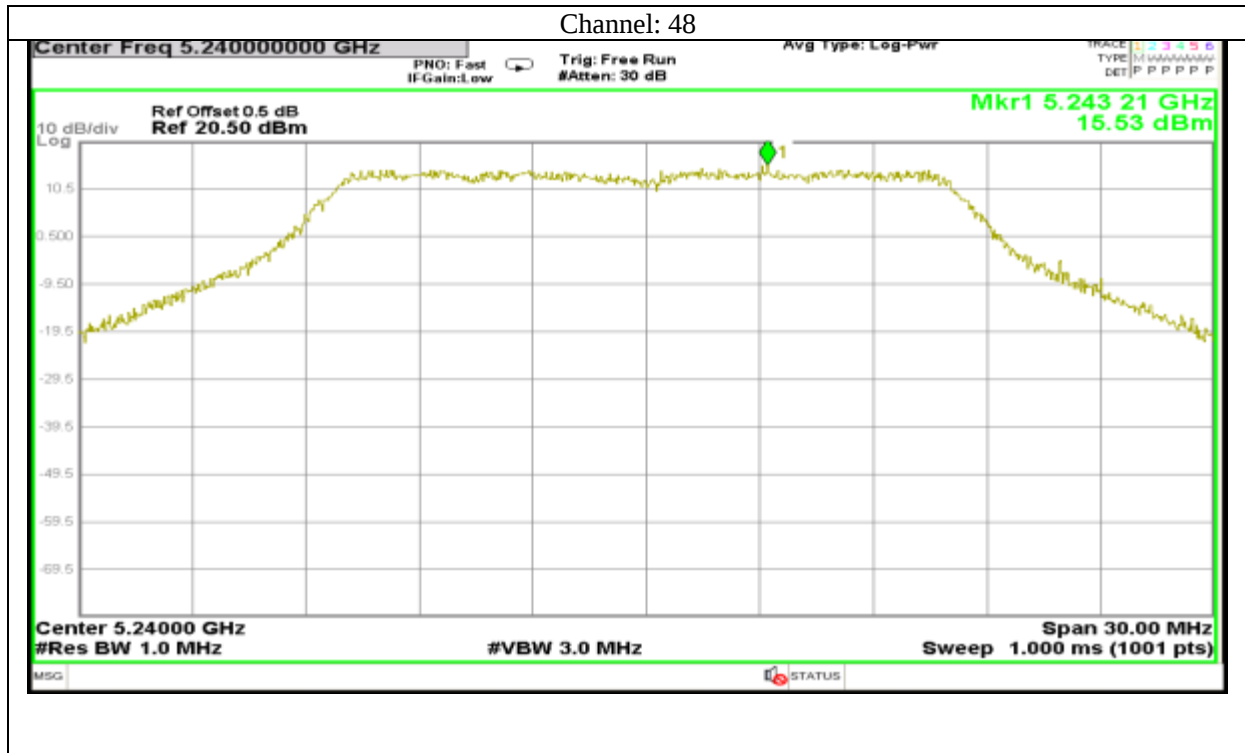
Report No.: AAEMT/RF/231110-04-03

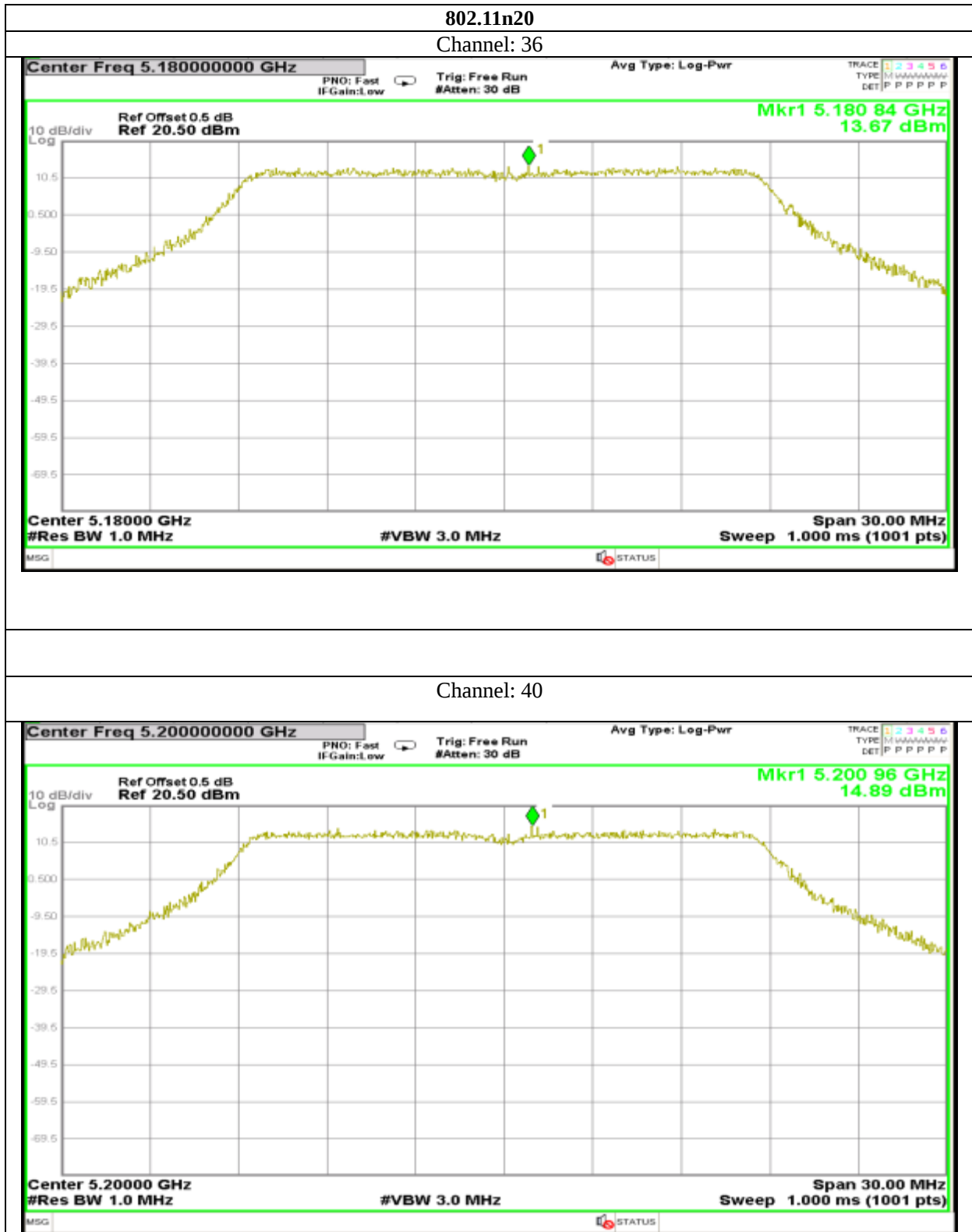
### Test plots as followed

### Antenna 0:

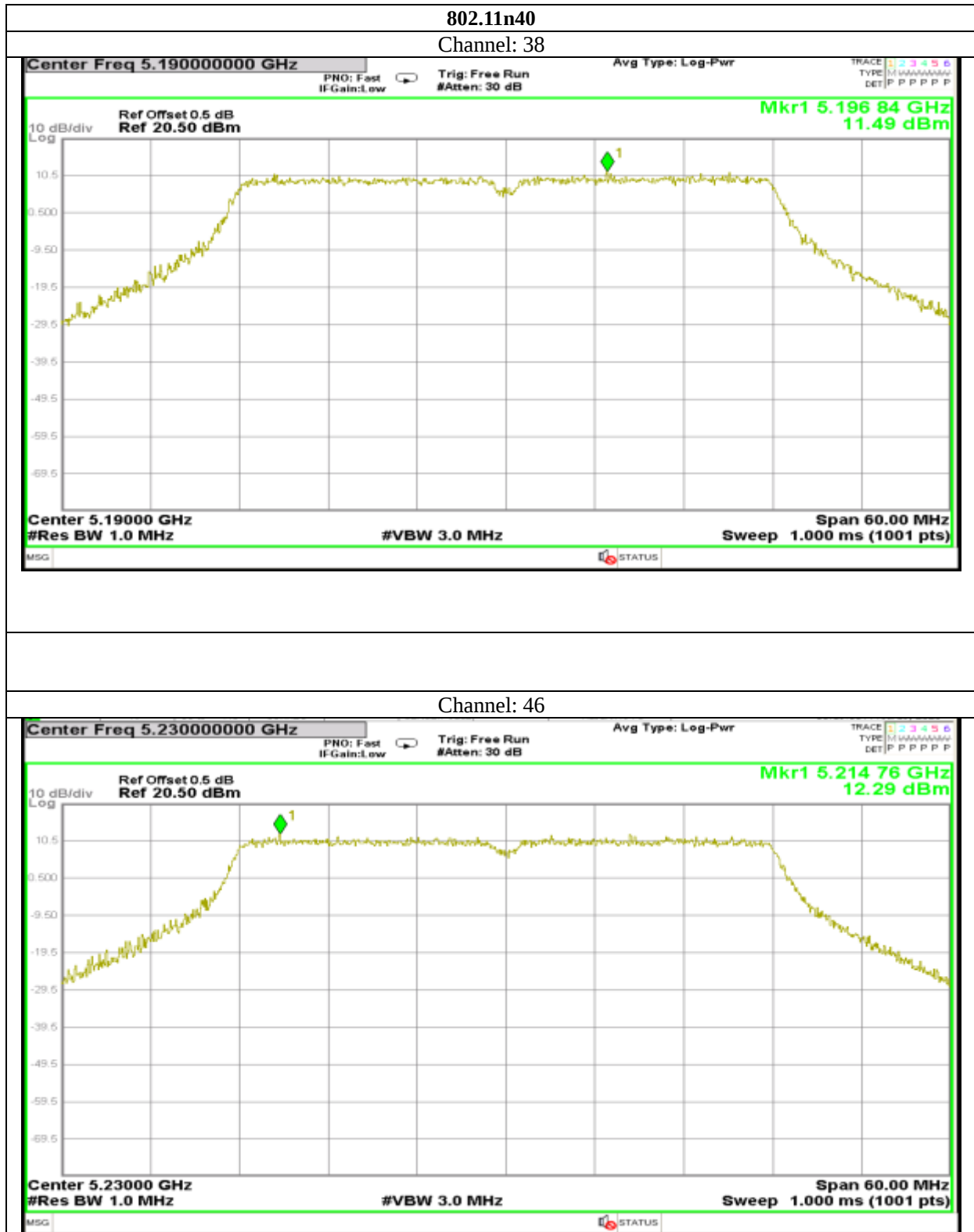


Report No.: AAEMT/RF/231110-04-03



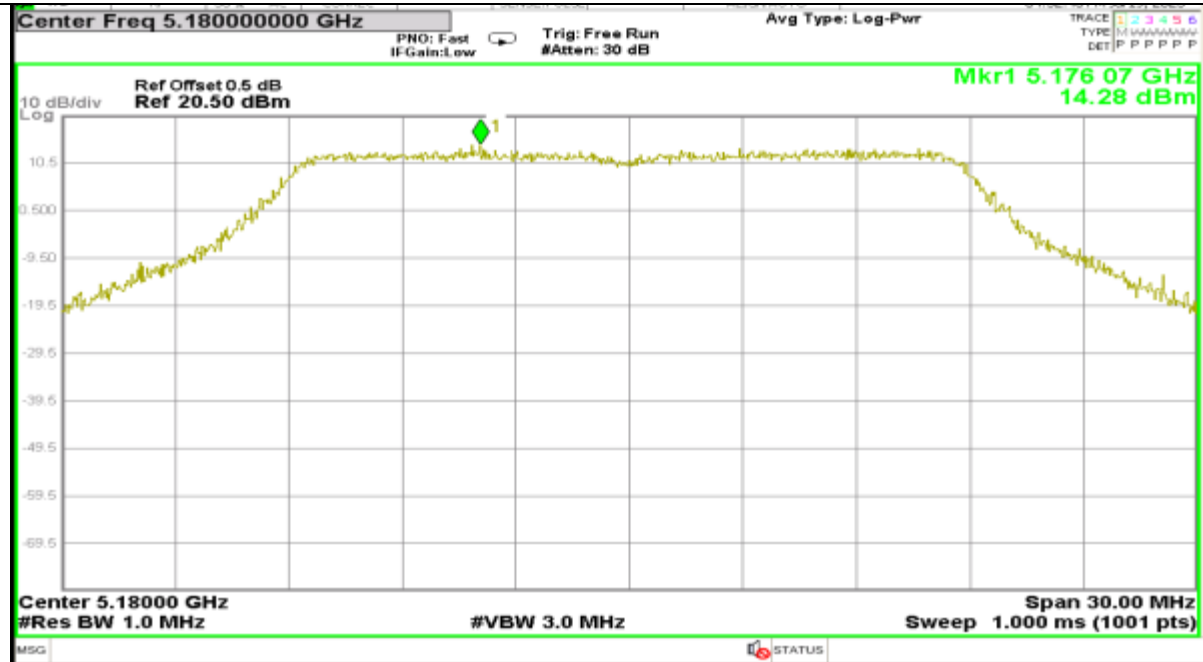






802.11ac20

Channel: 36



Channel: 40



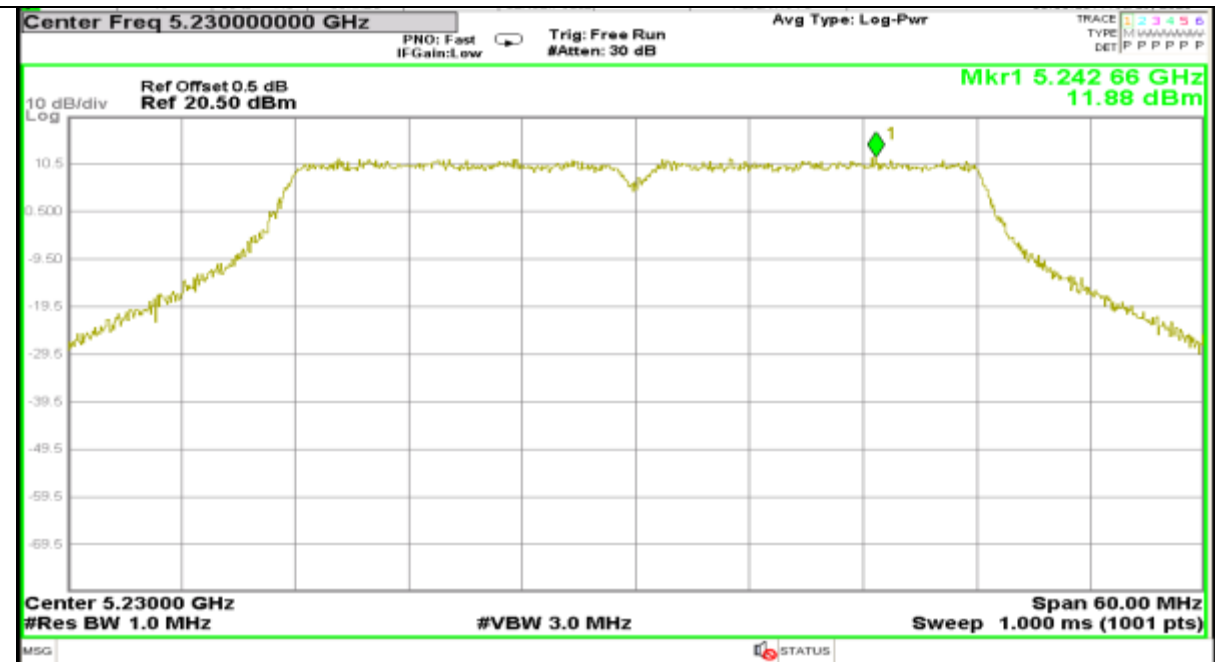


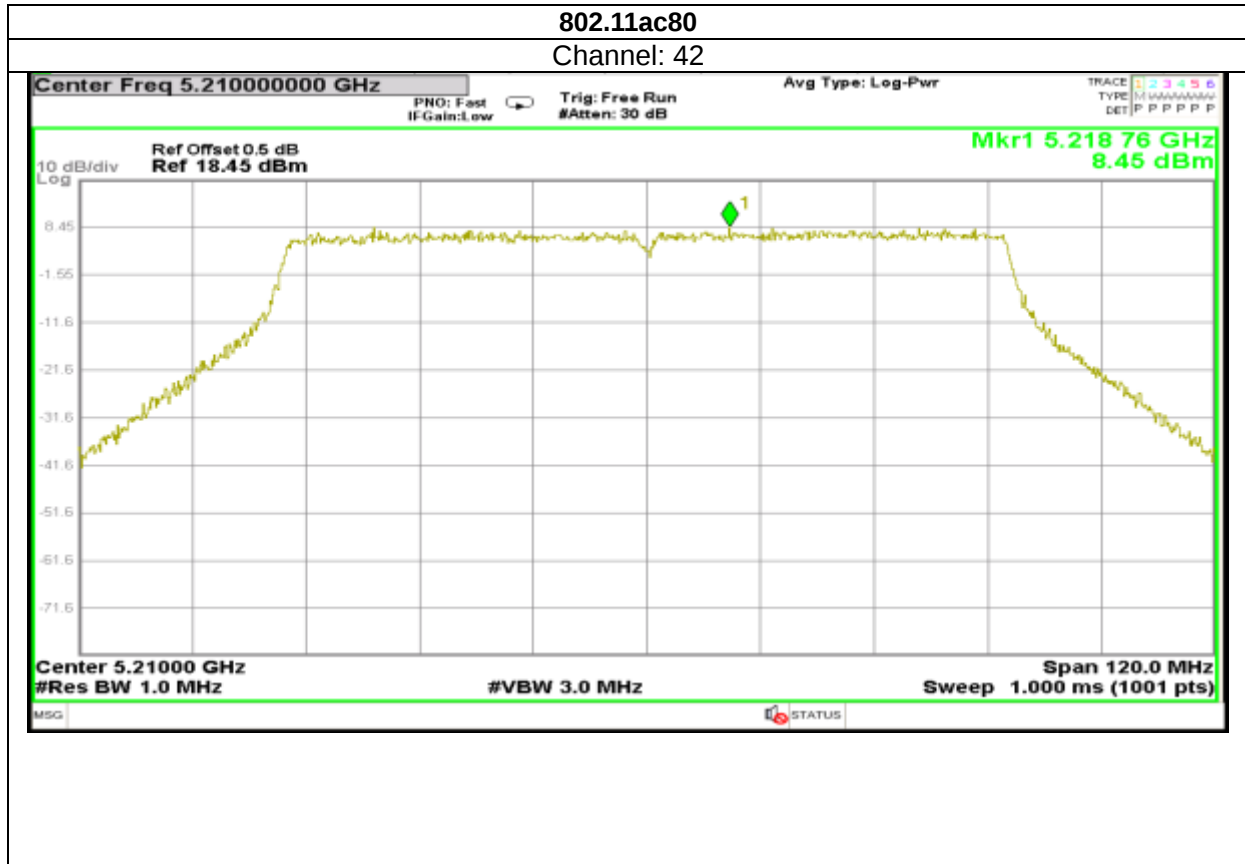
802.11ac40

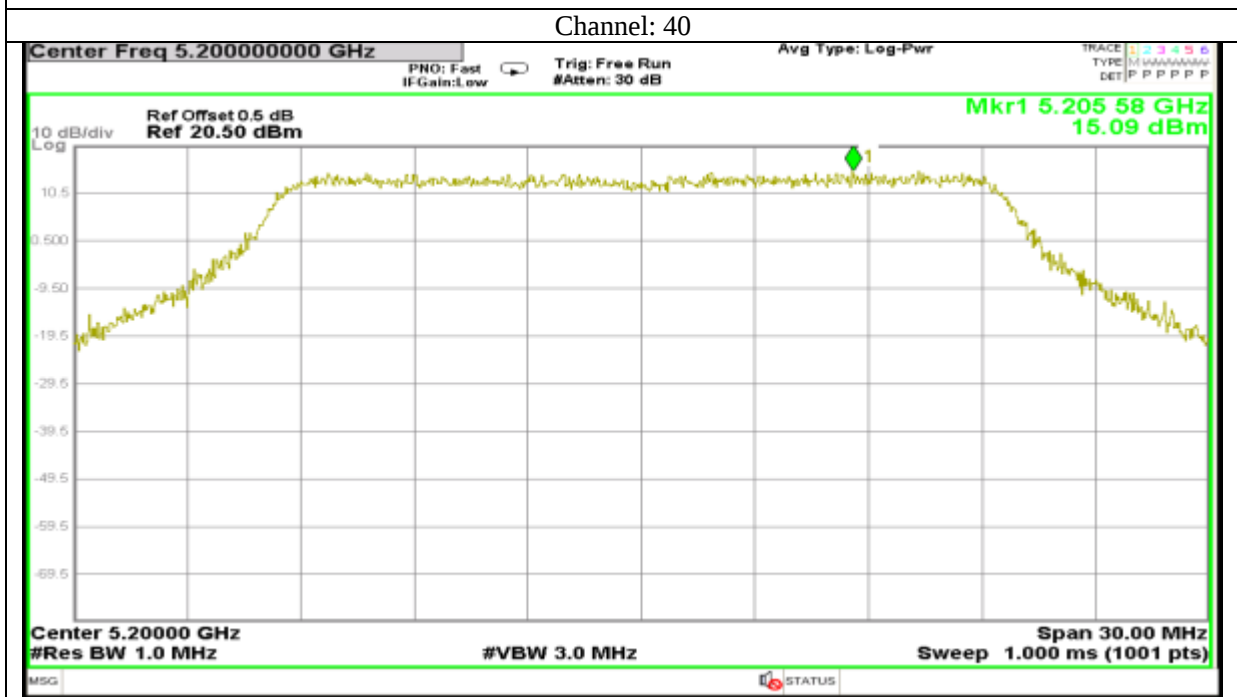
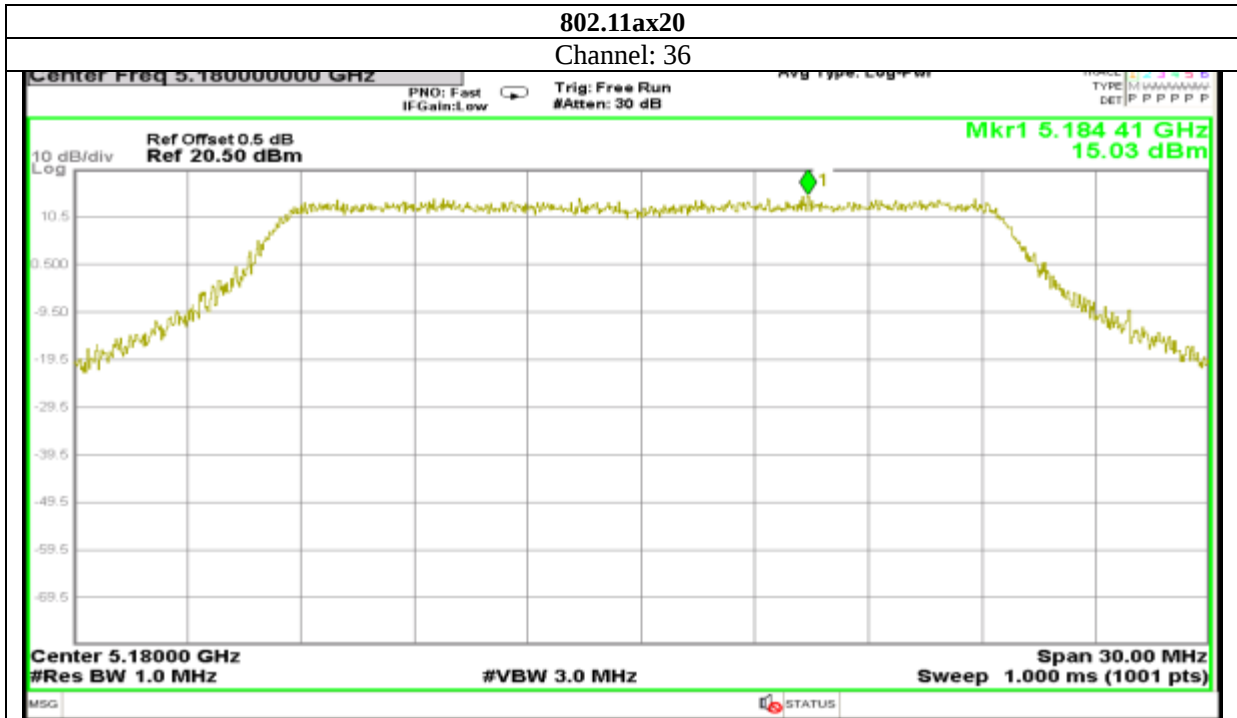
Channel: 38

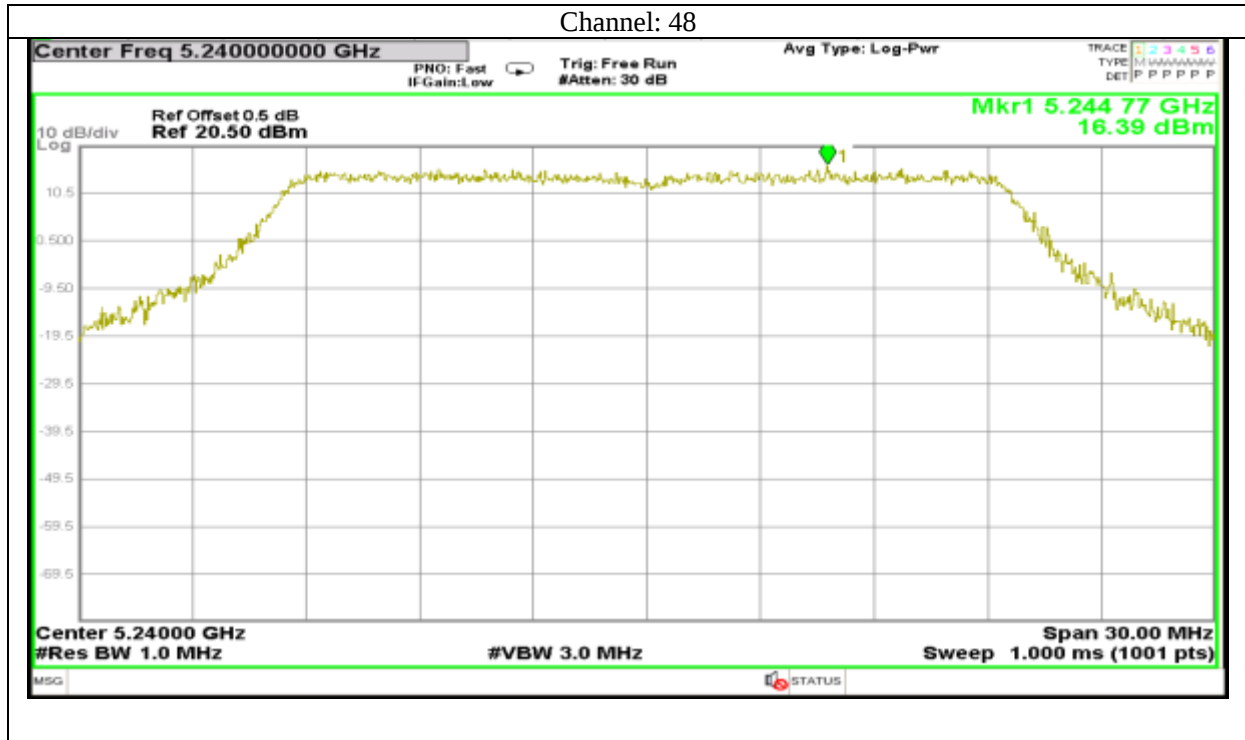


Channel: 46



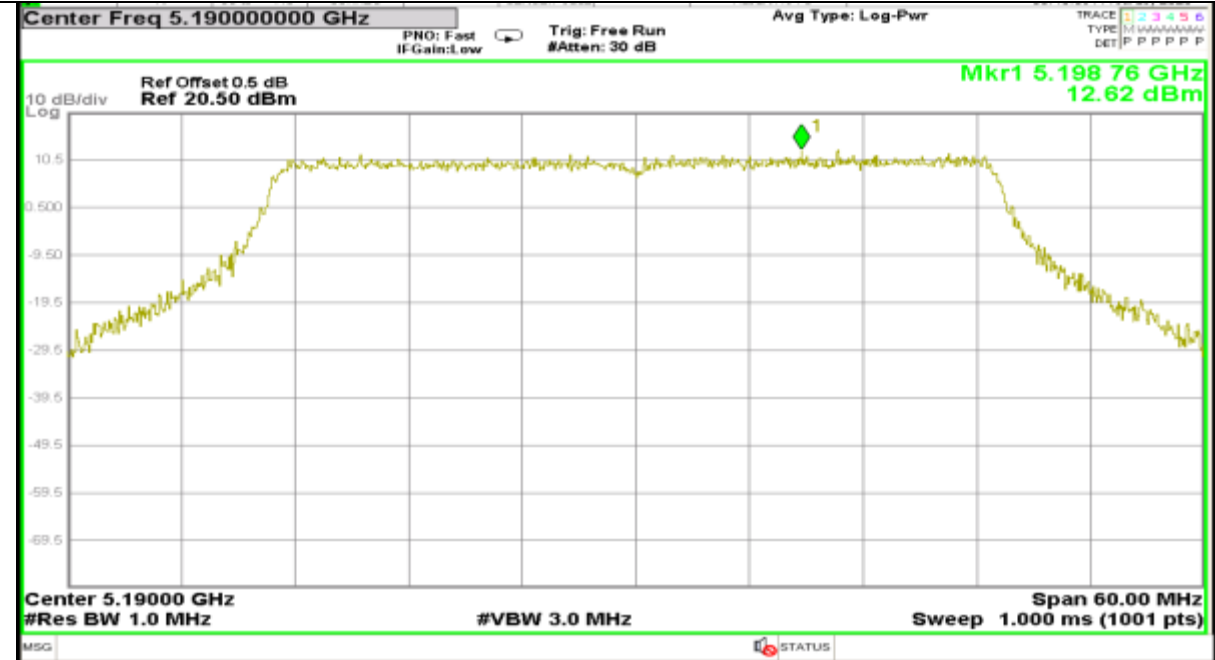




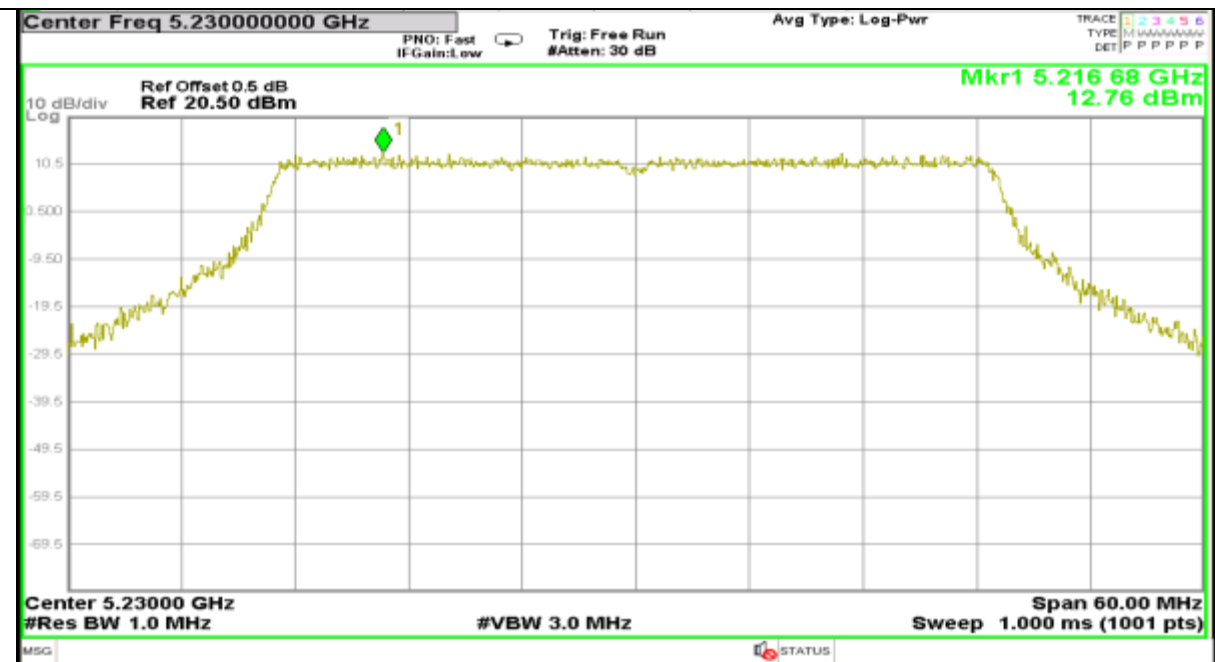


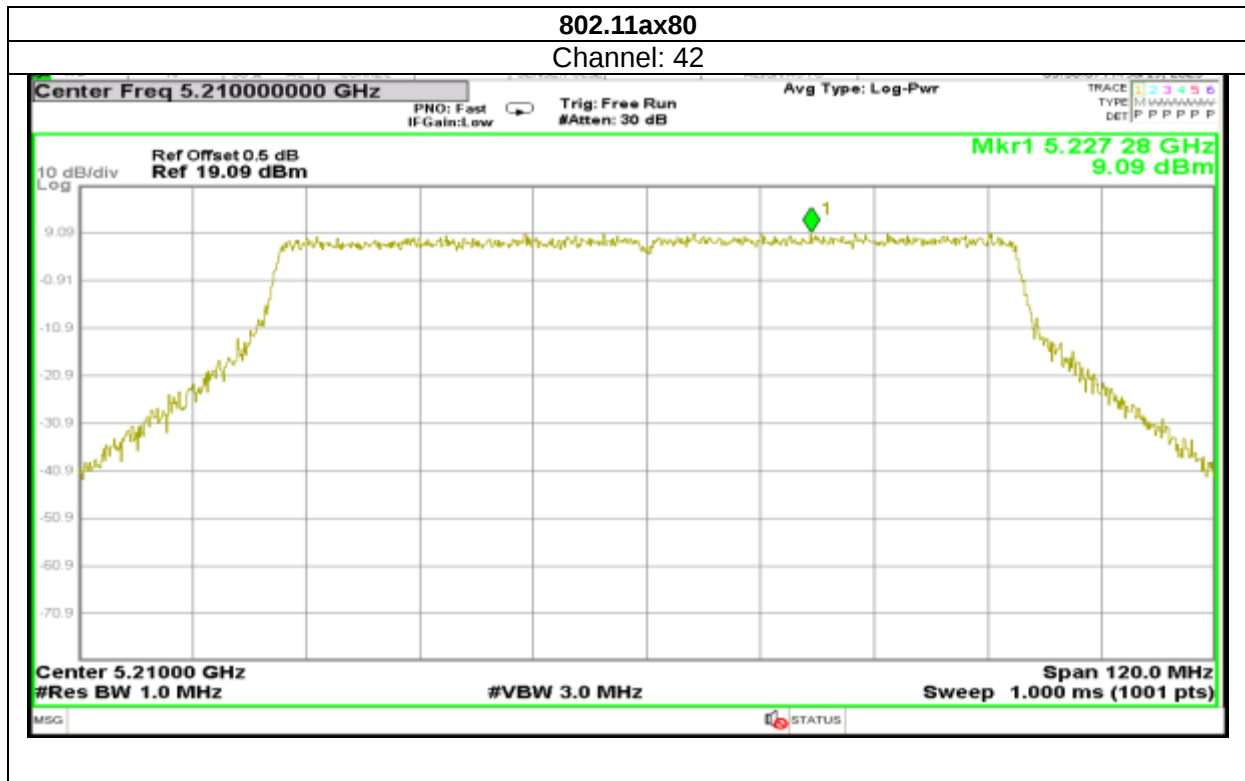
802.11ax40

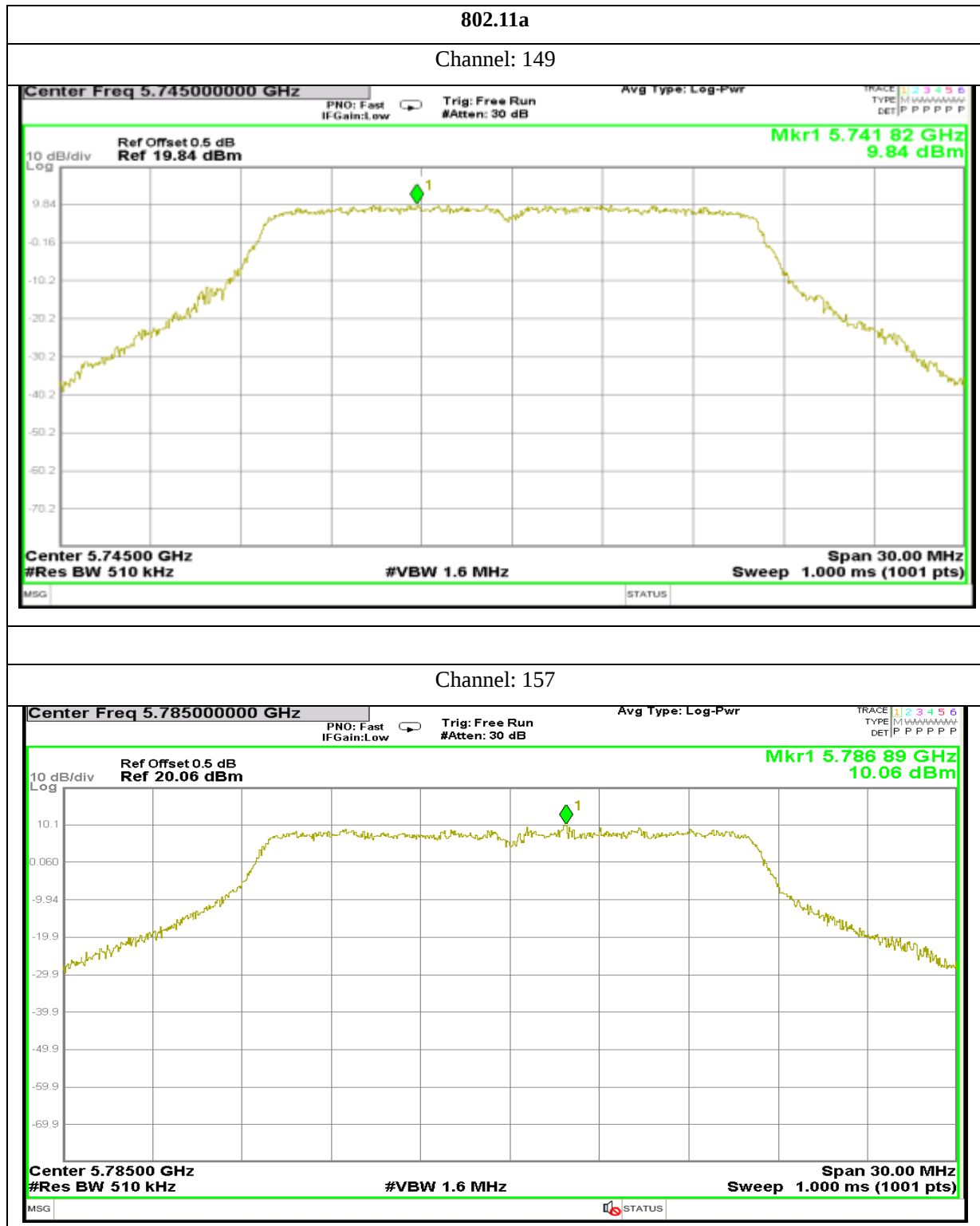
Channel: 38

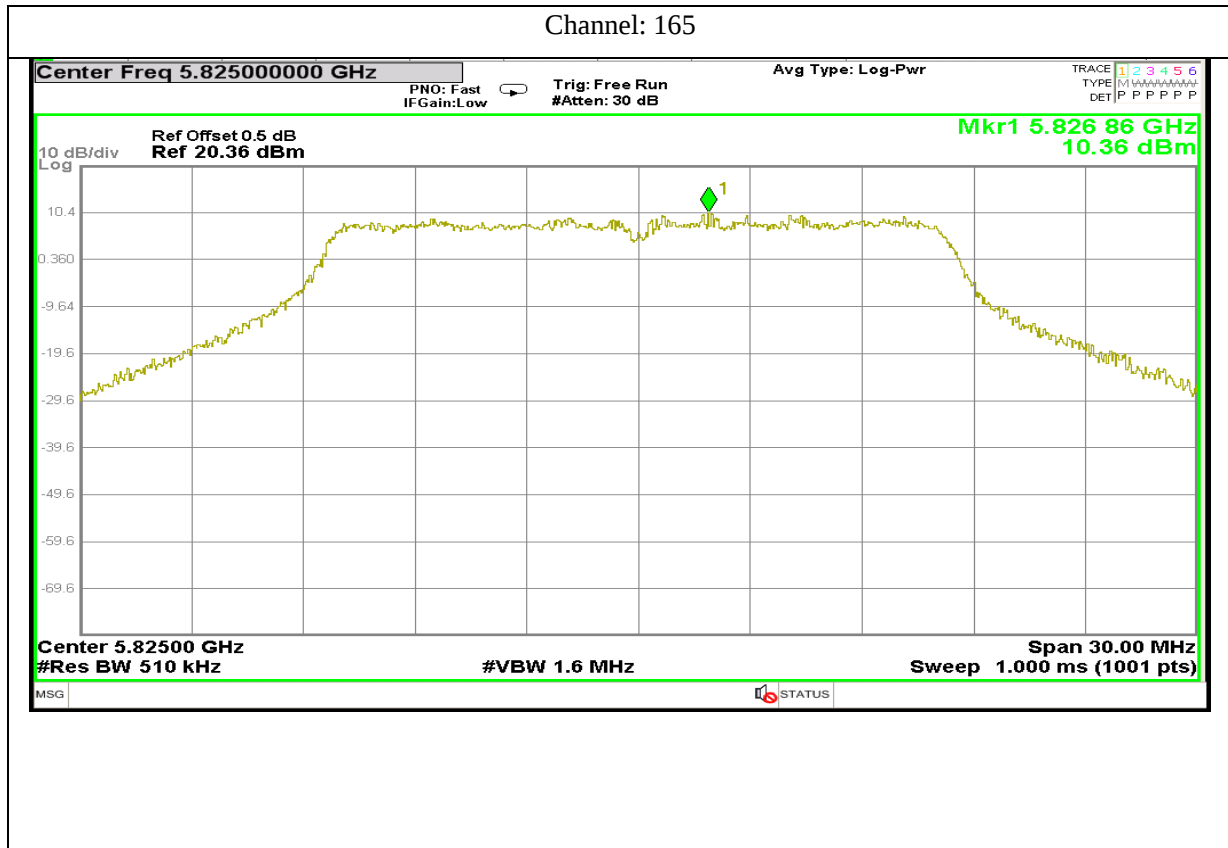


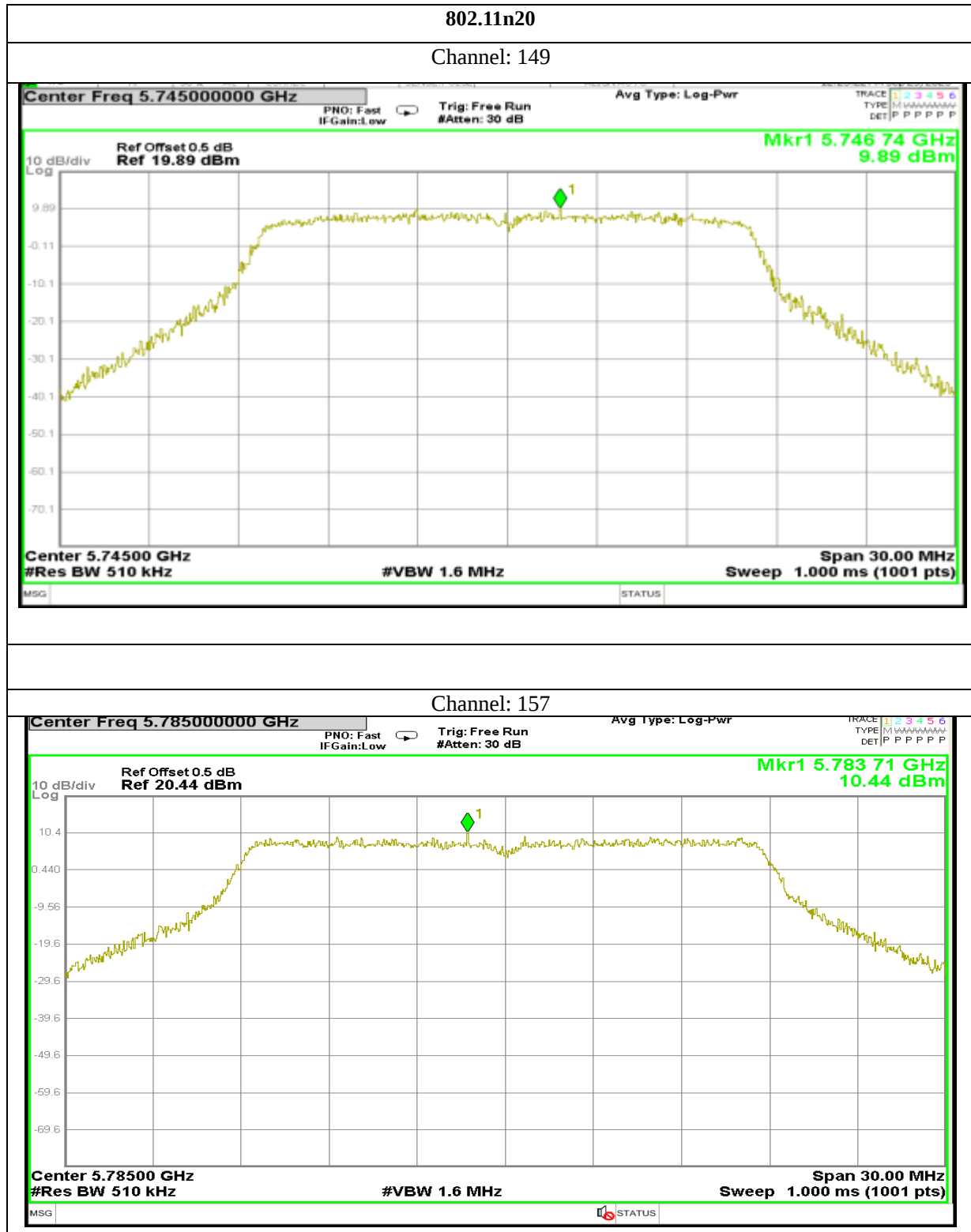
Channel: 46

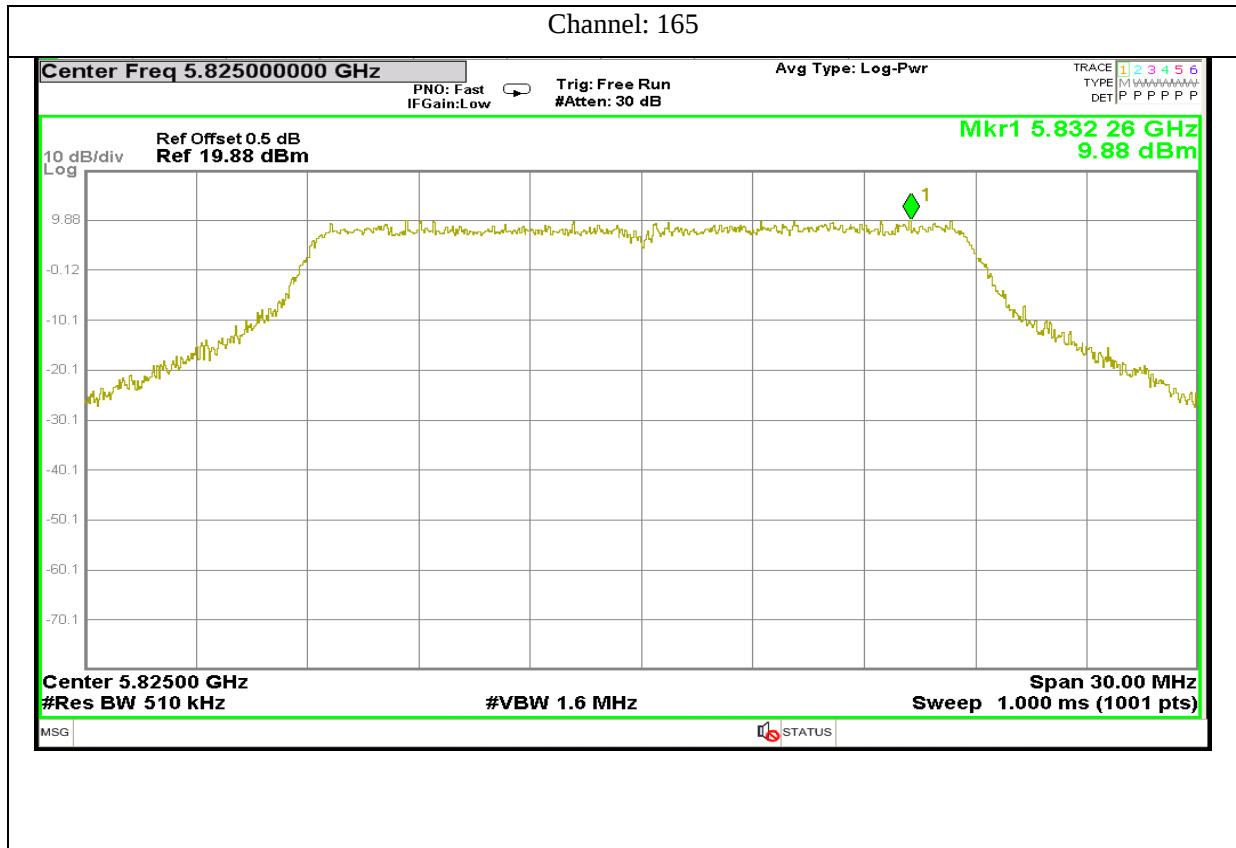






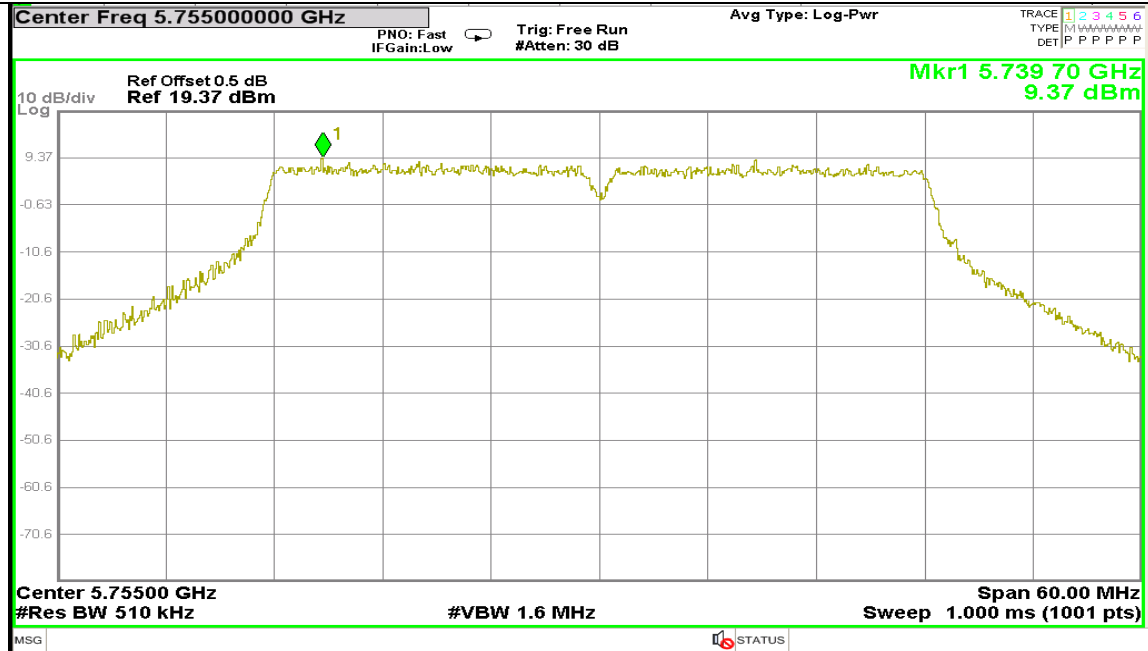




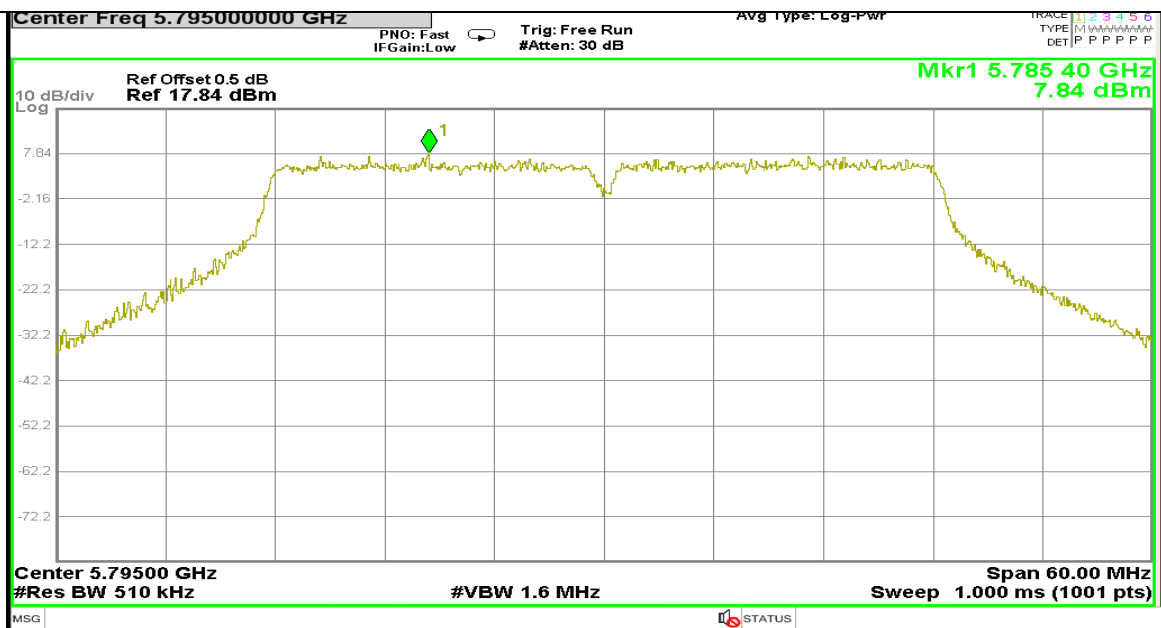


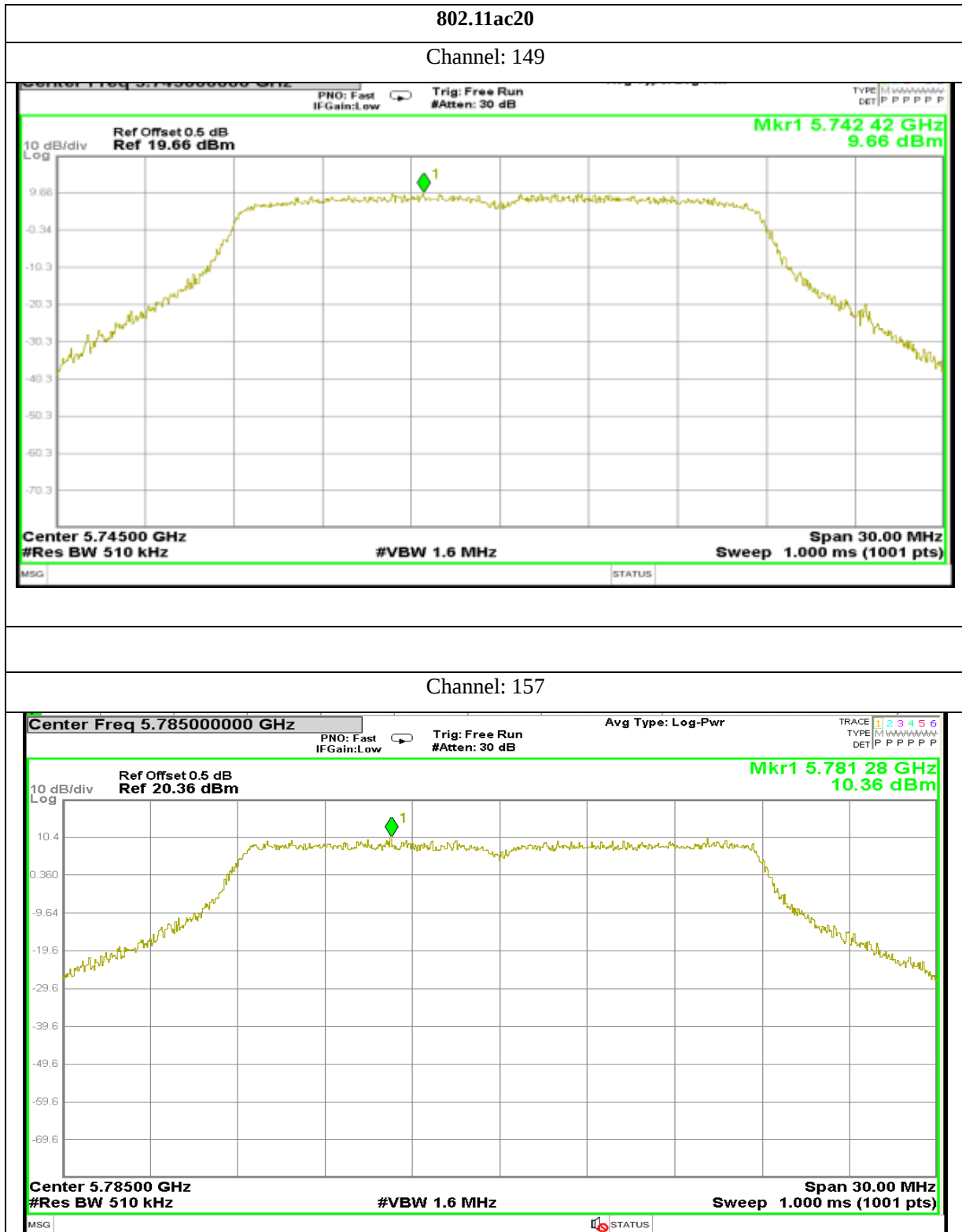
802.11n40

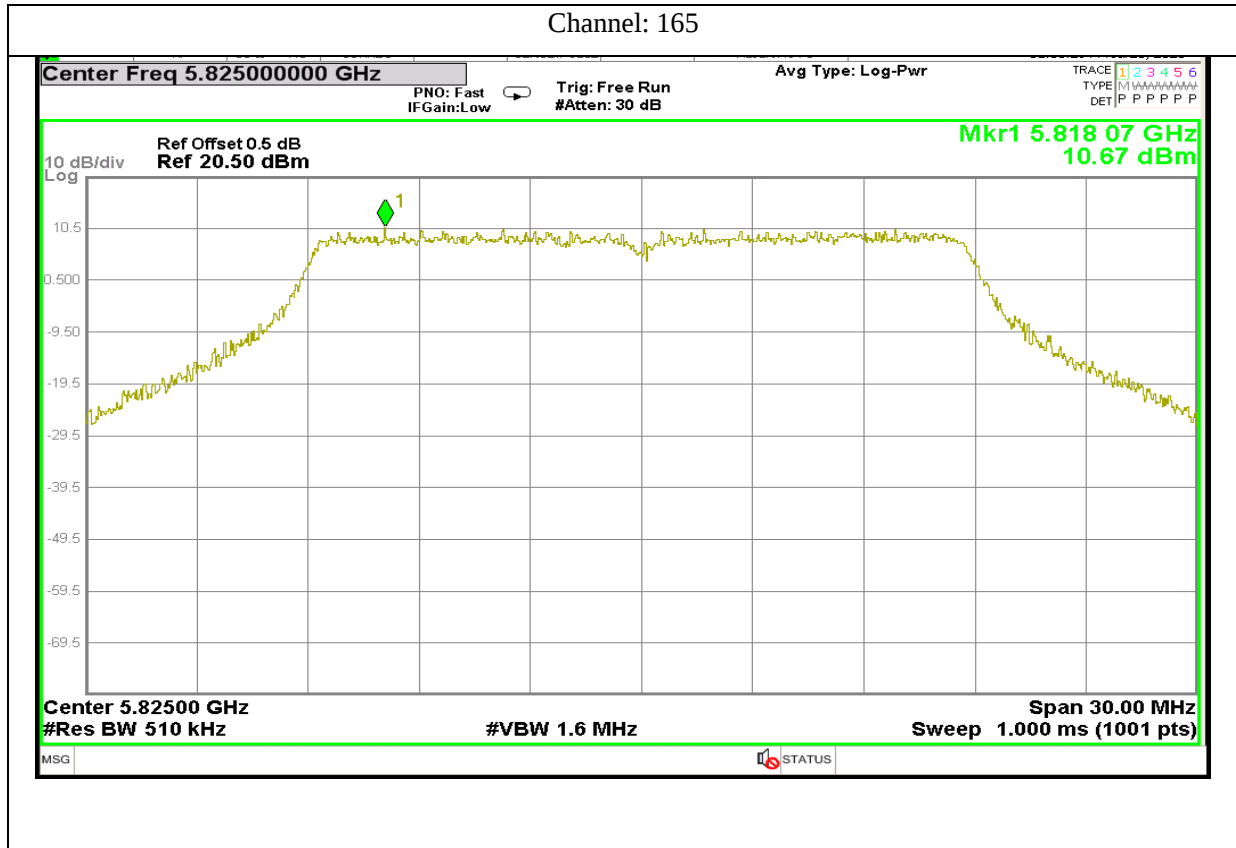
Channel: 151



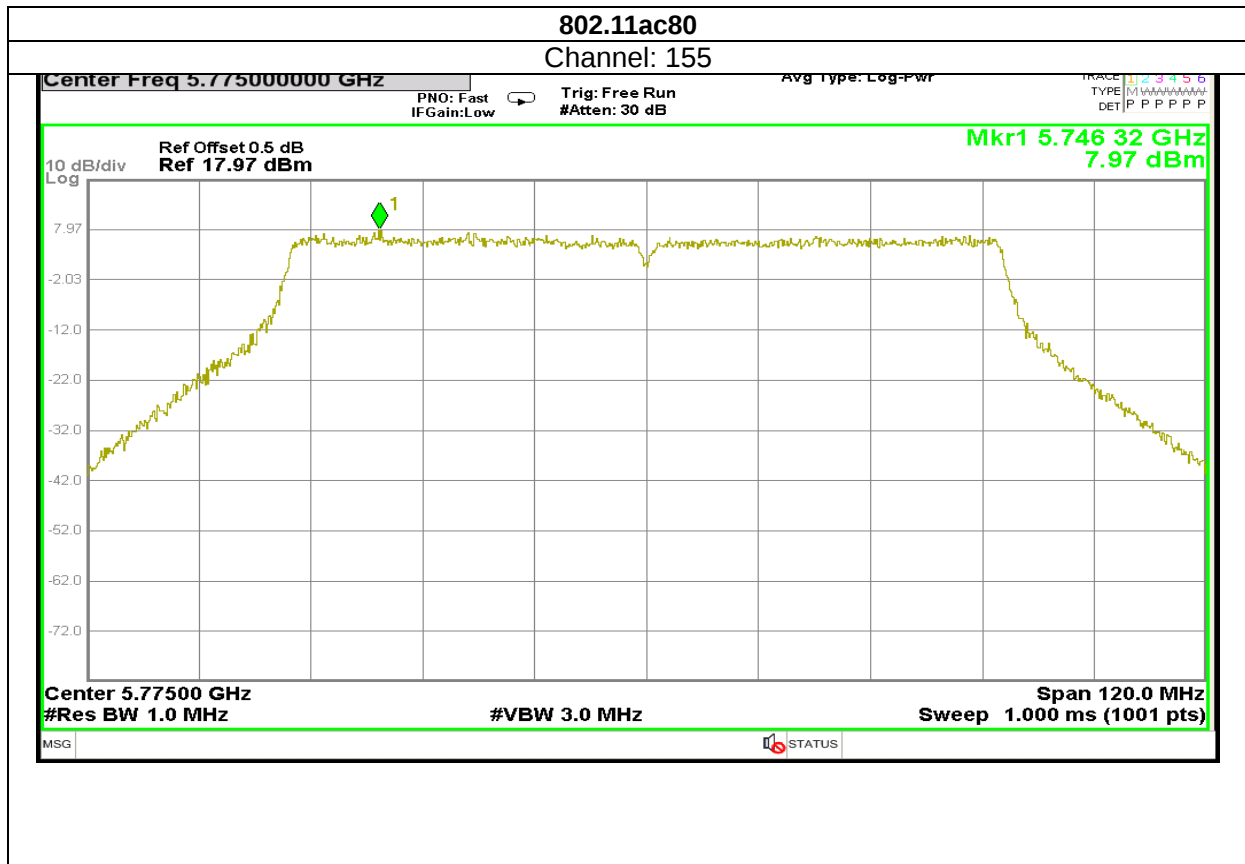
Channel: 159

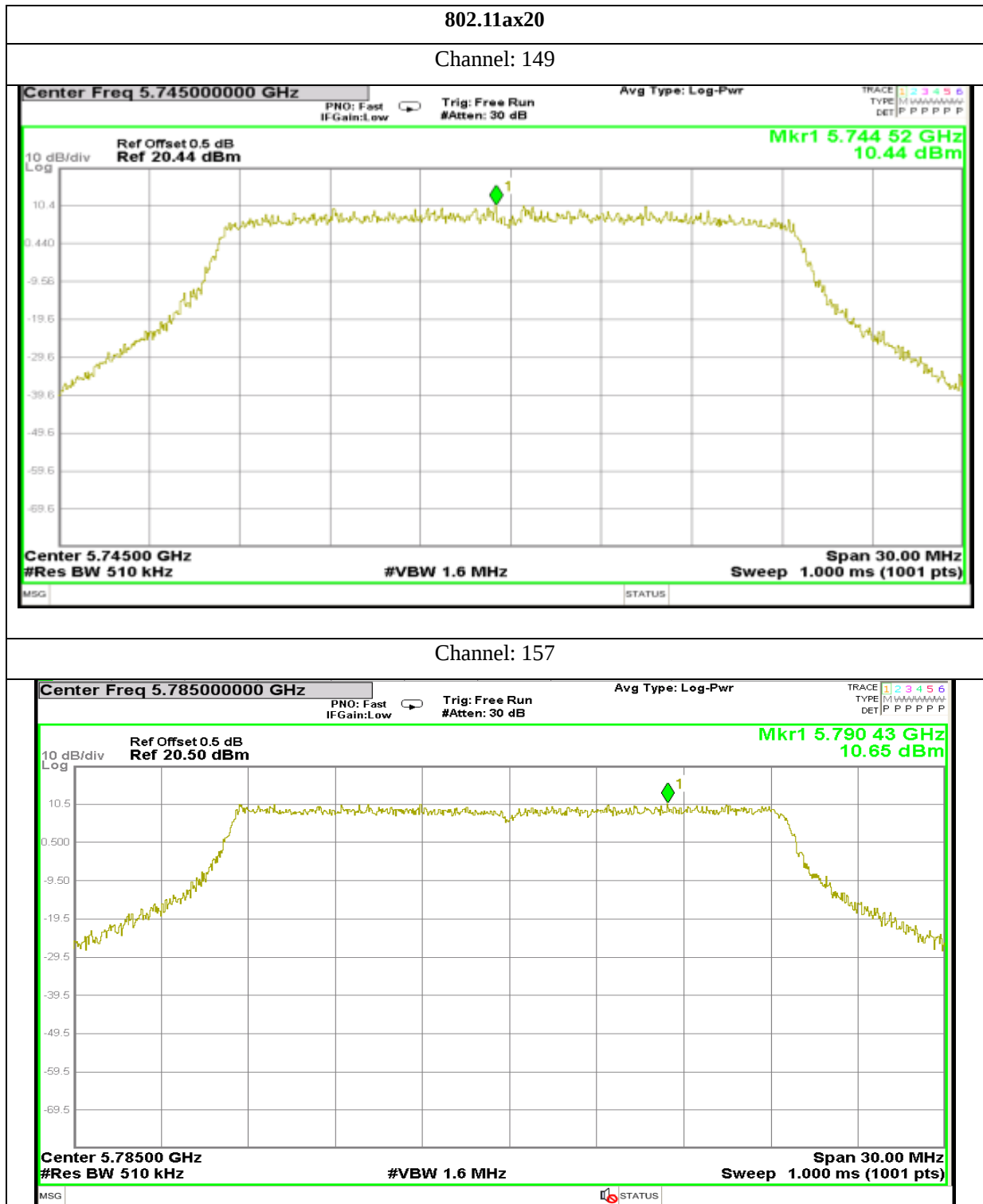


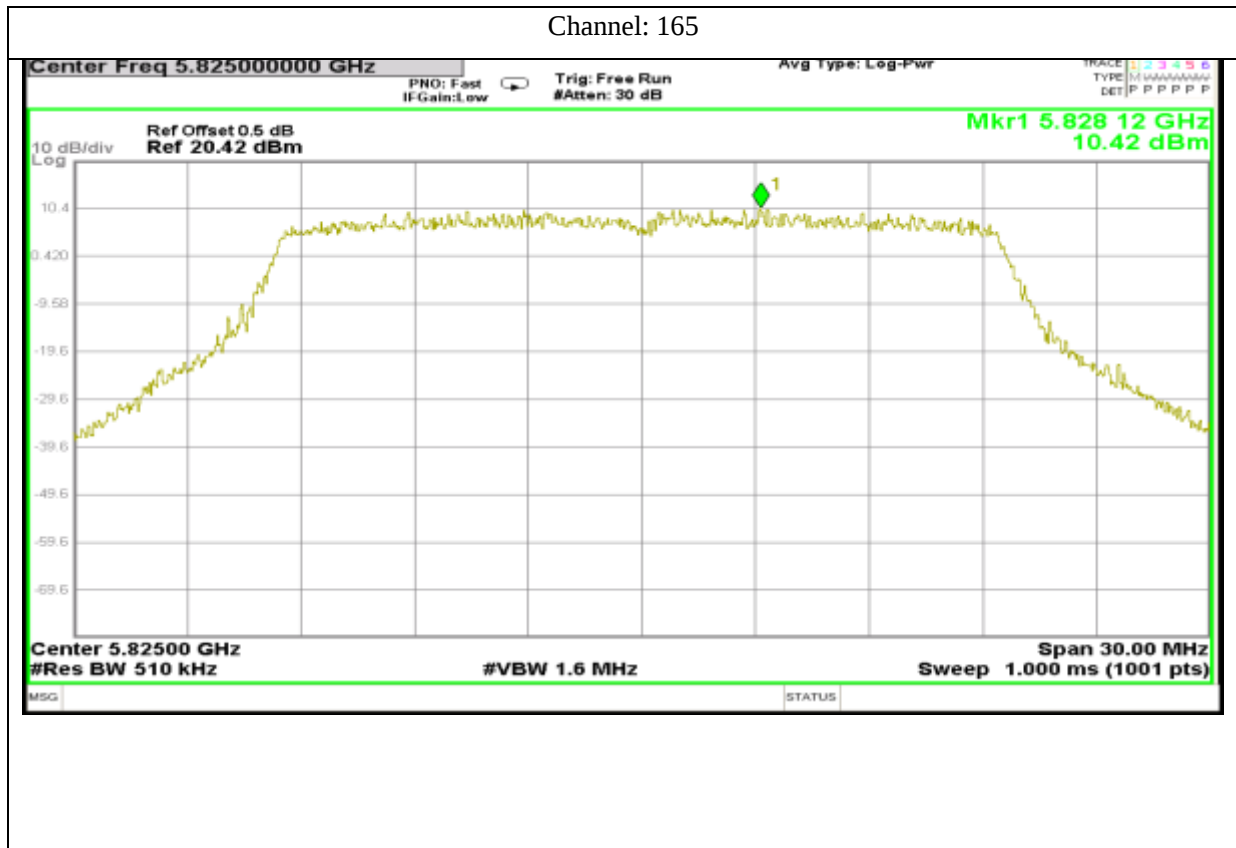




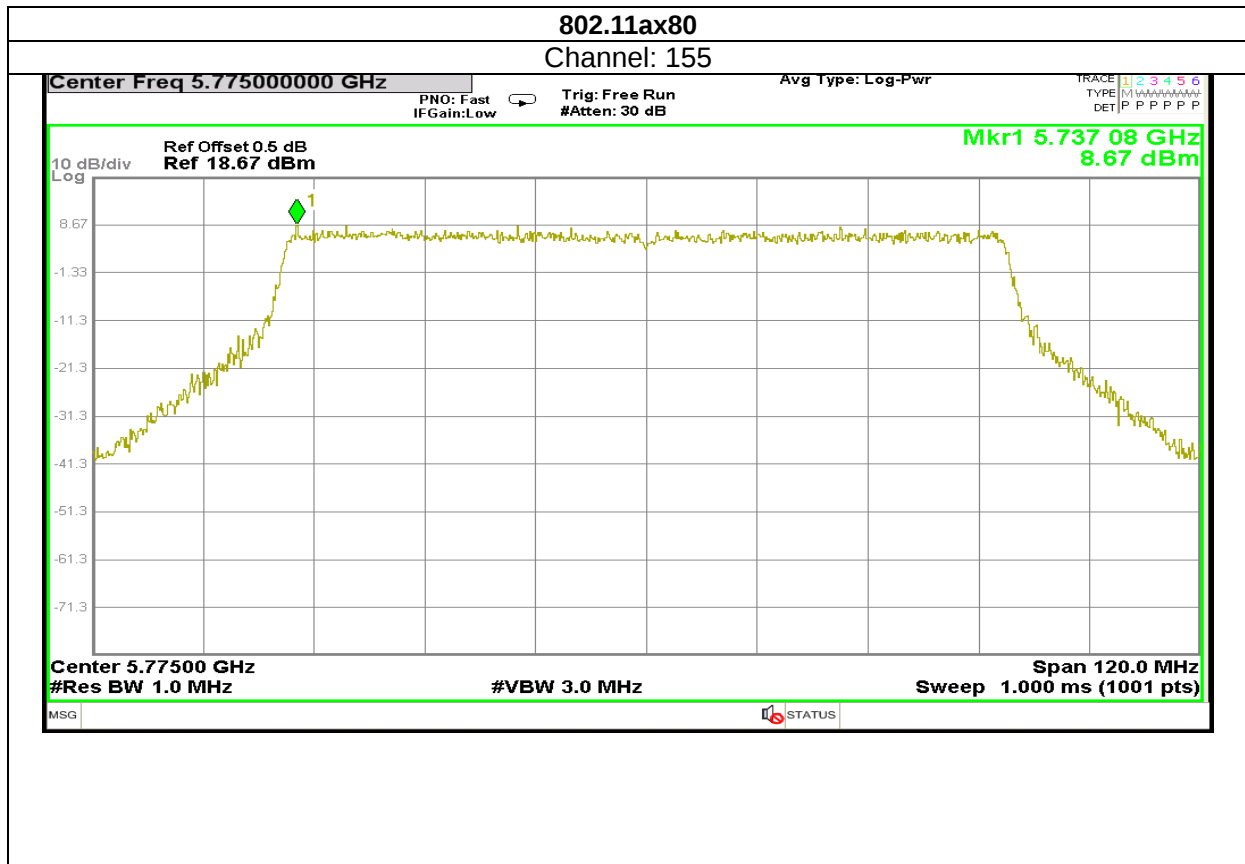




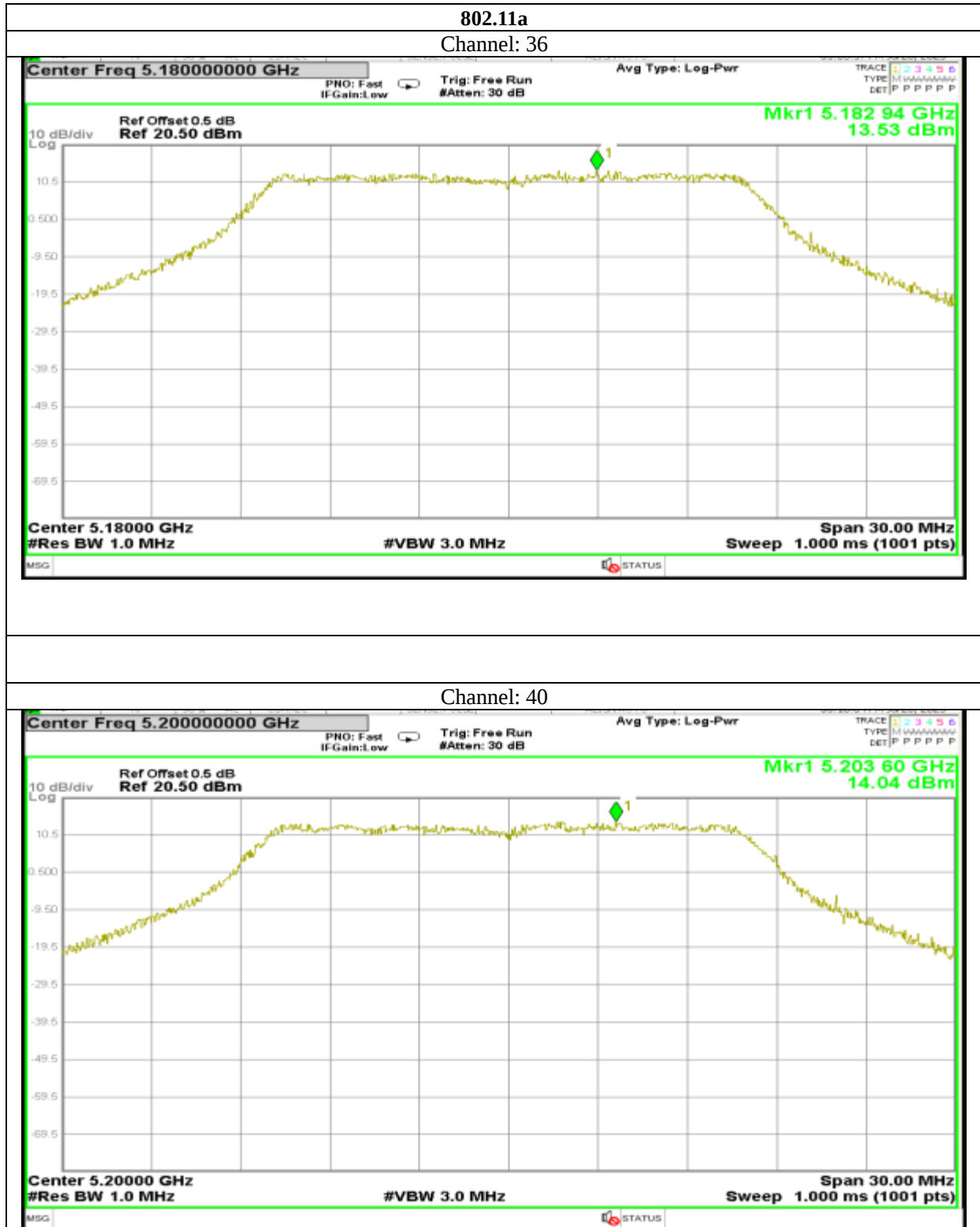


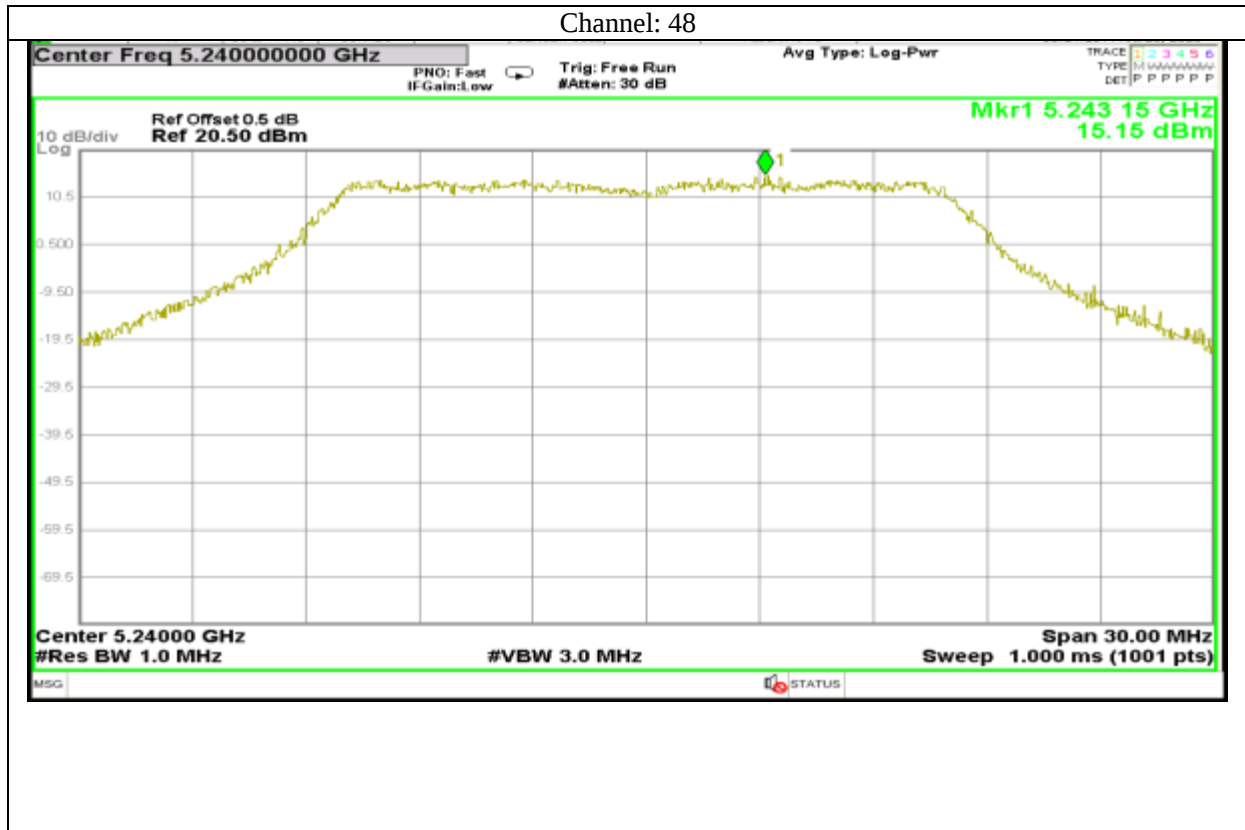


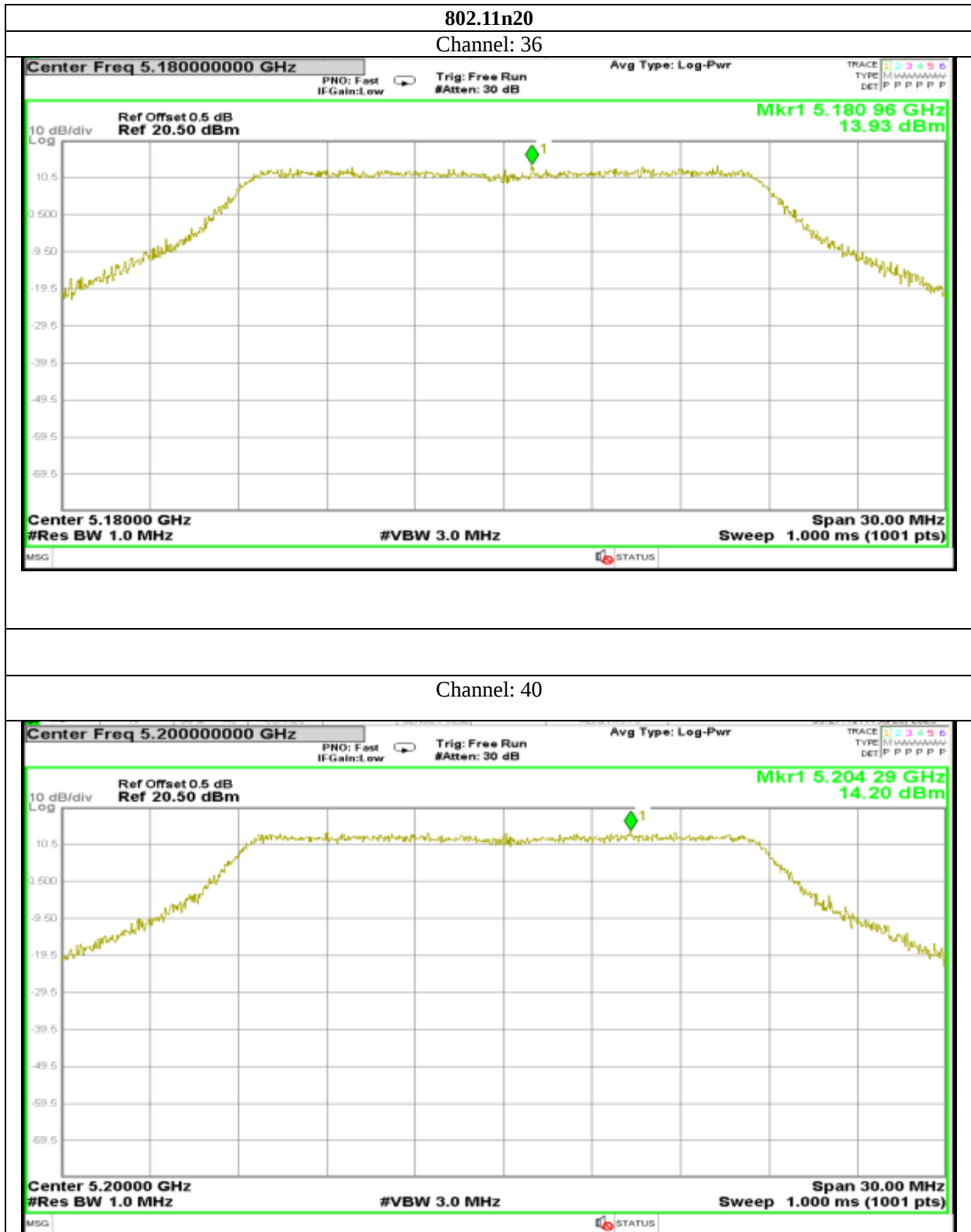


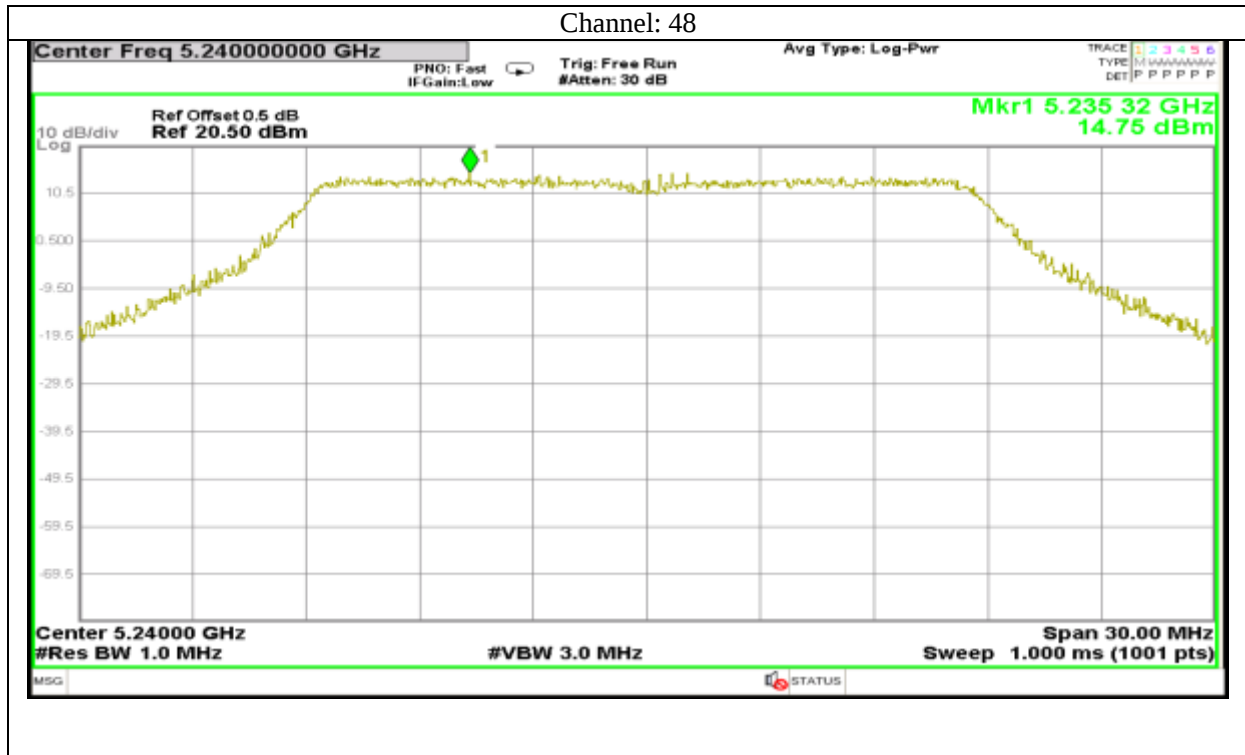


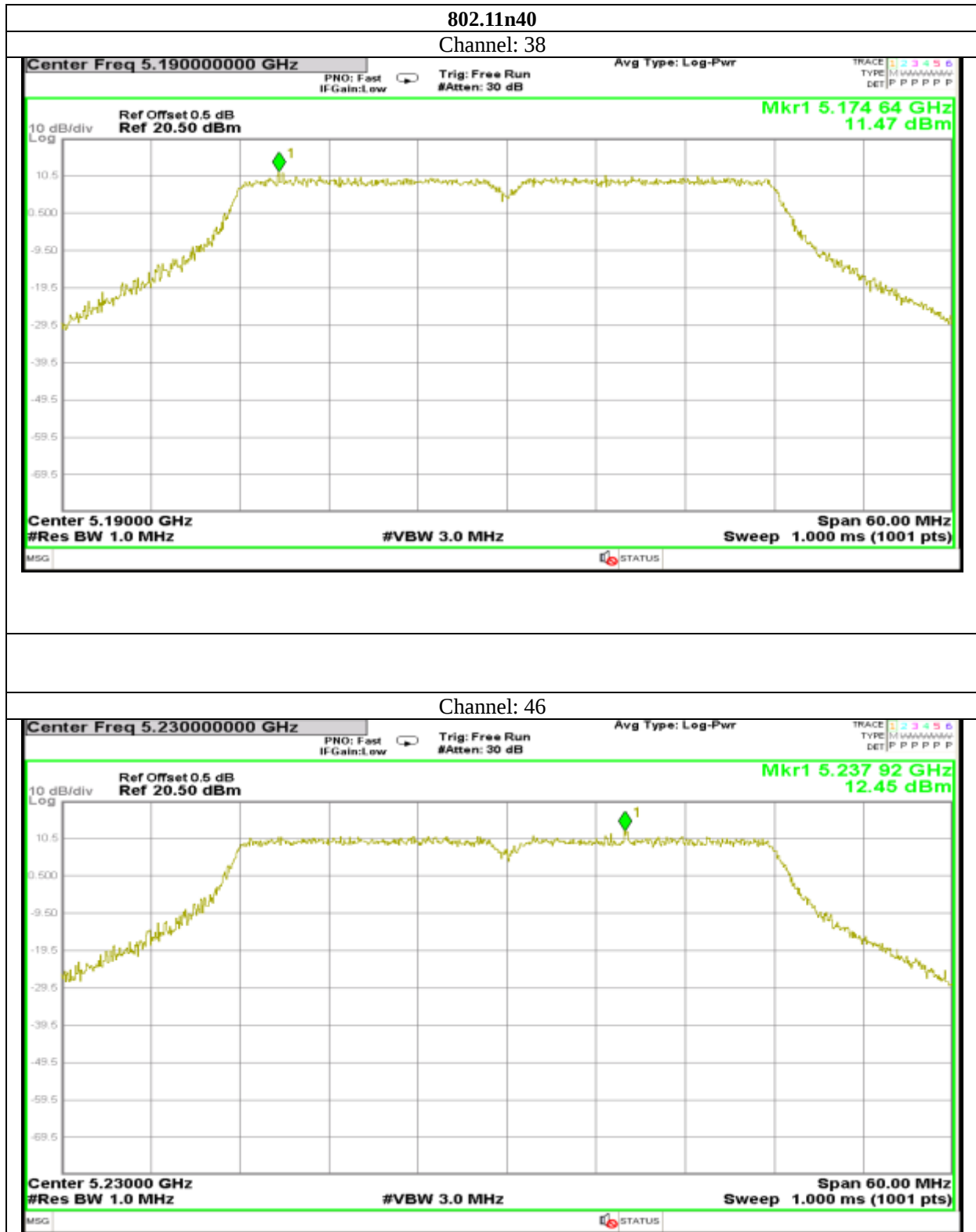
**Antenna 1:**





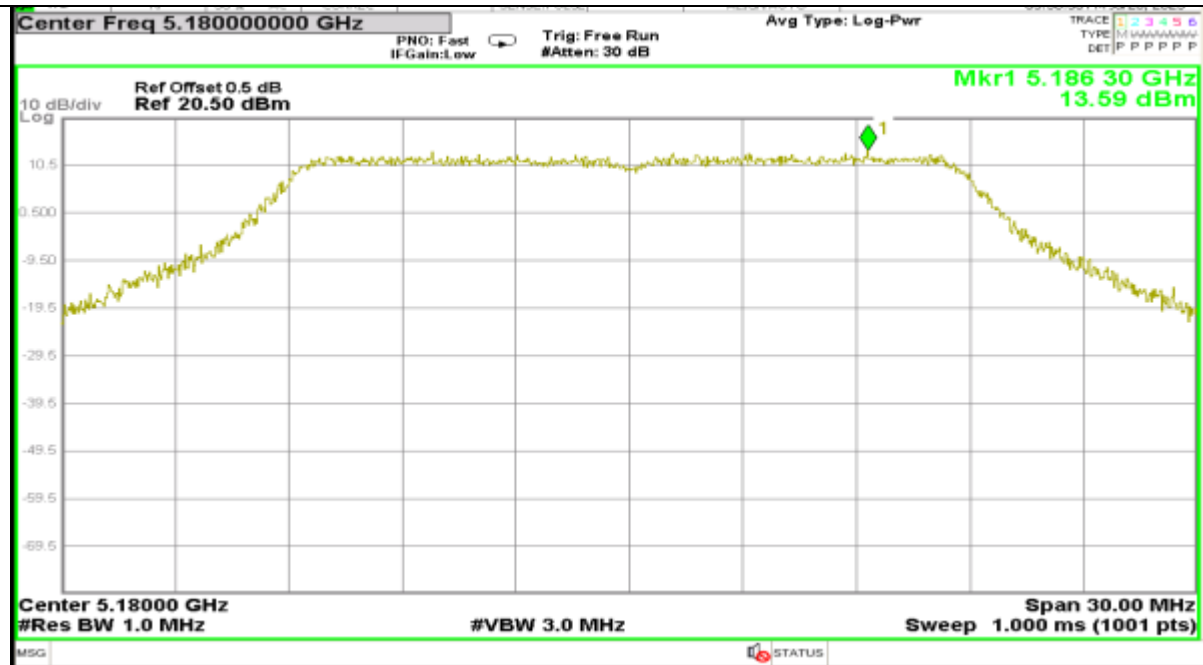




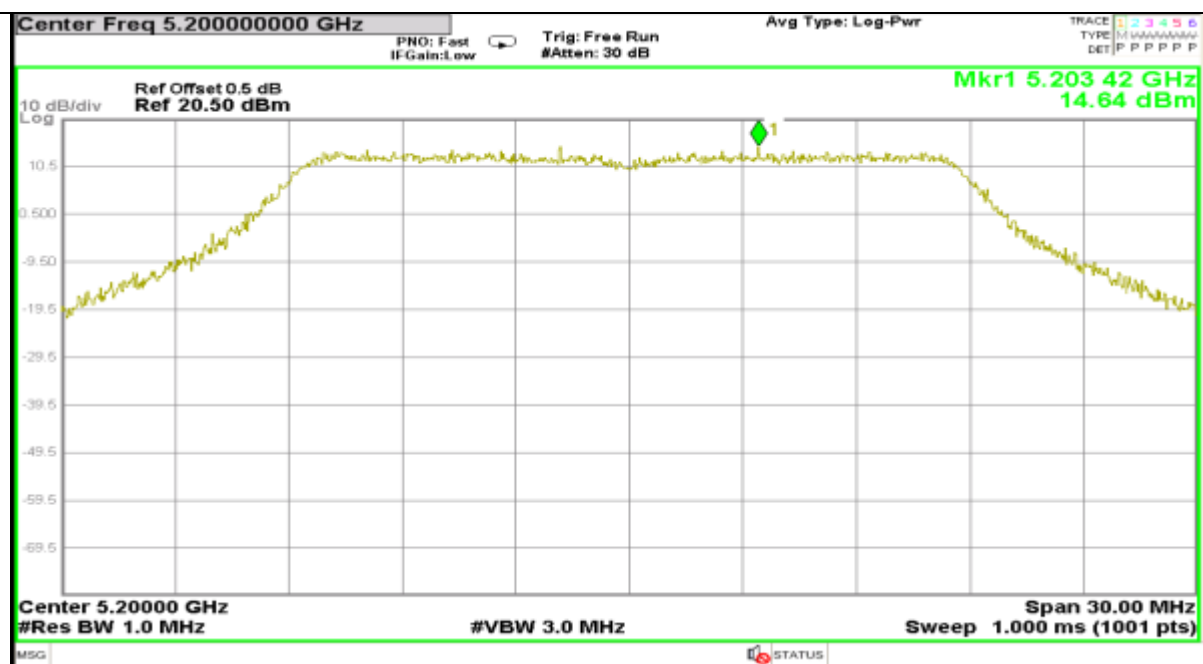


802.11ac20

Channel: 36



Channel: 40



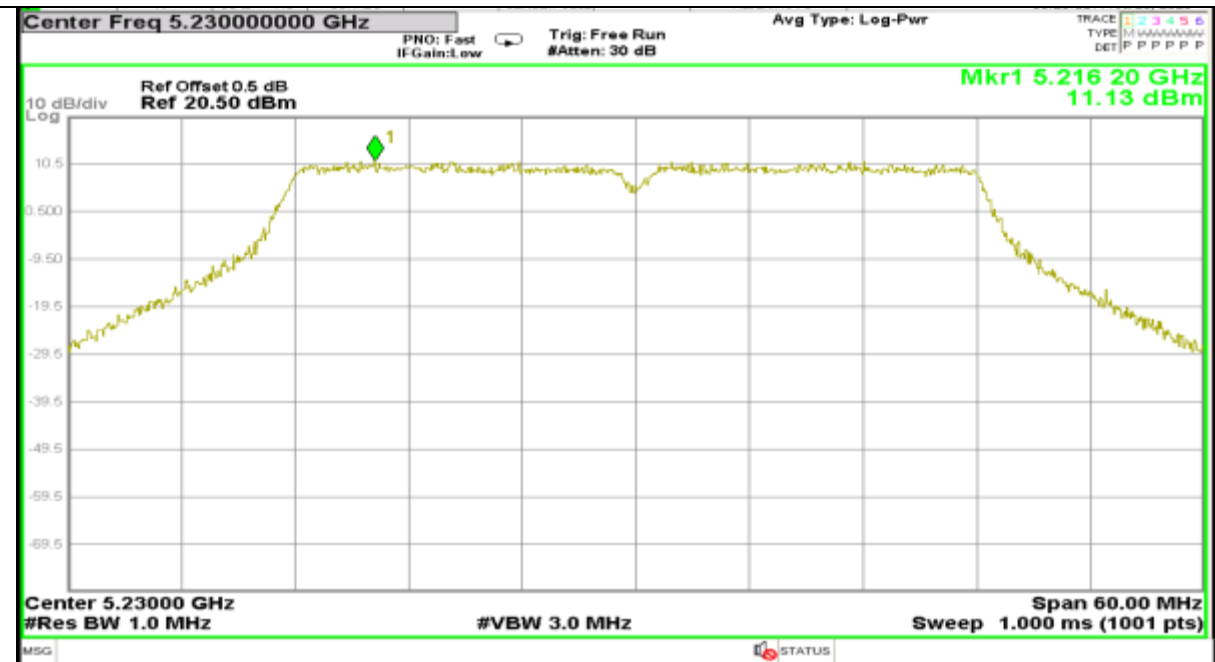


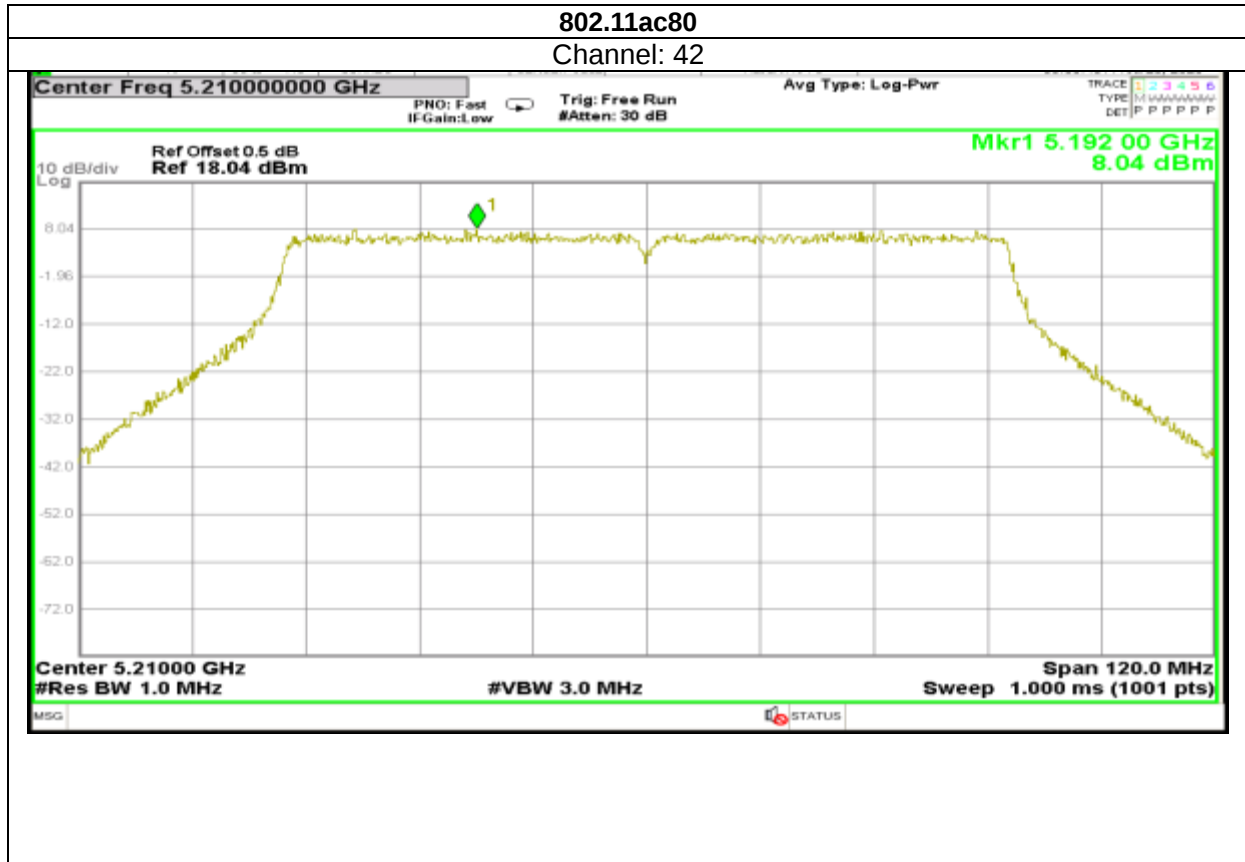
802.11ac40

Channel: 38



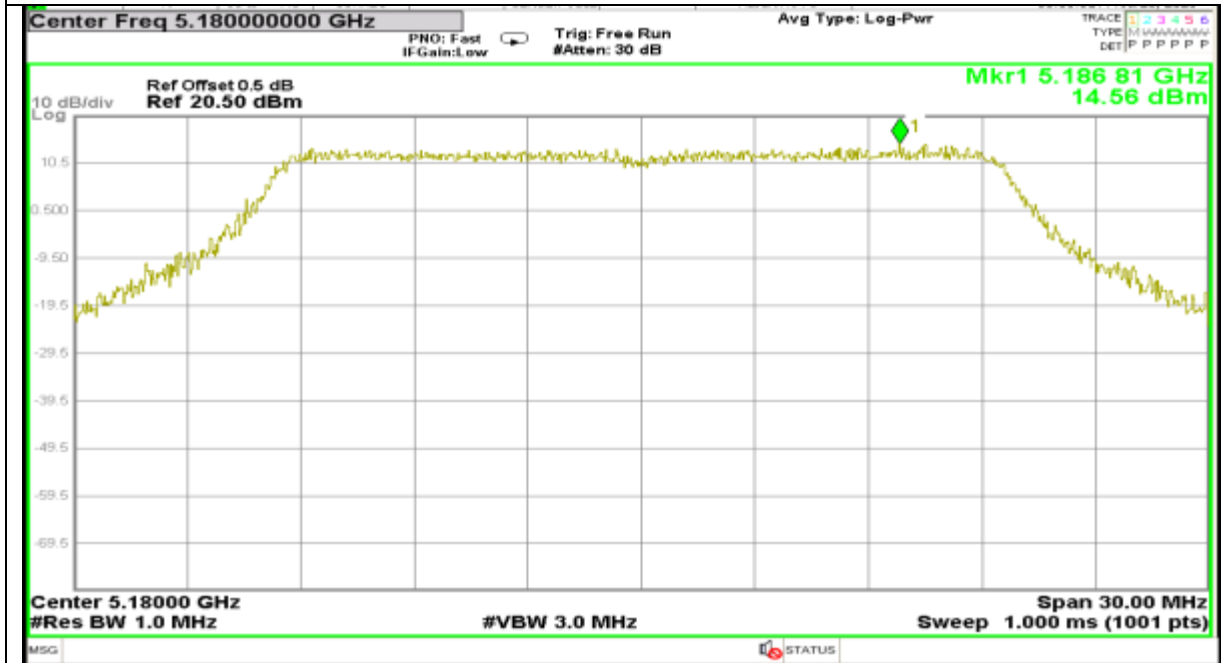
Channel: 46



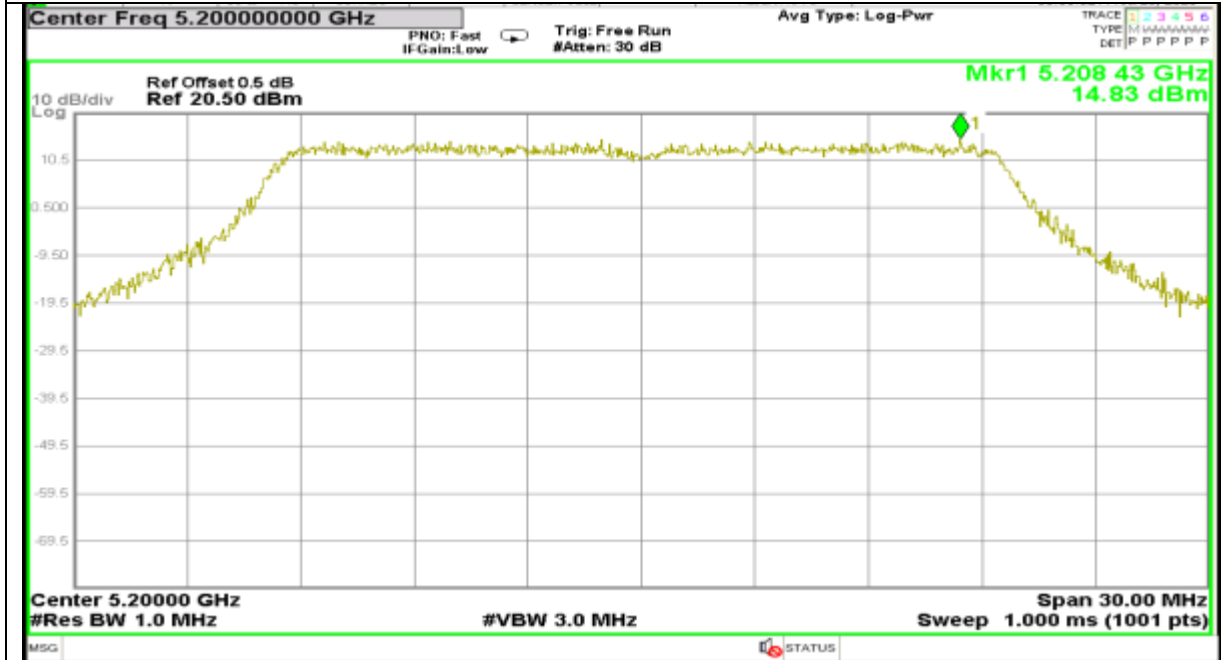


802.11ax20

Channel: 36



Channel: 40





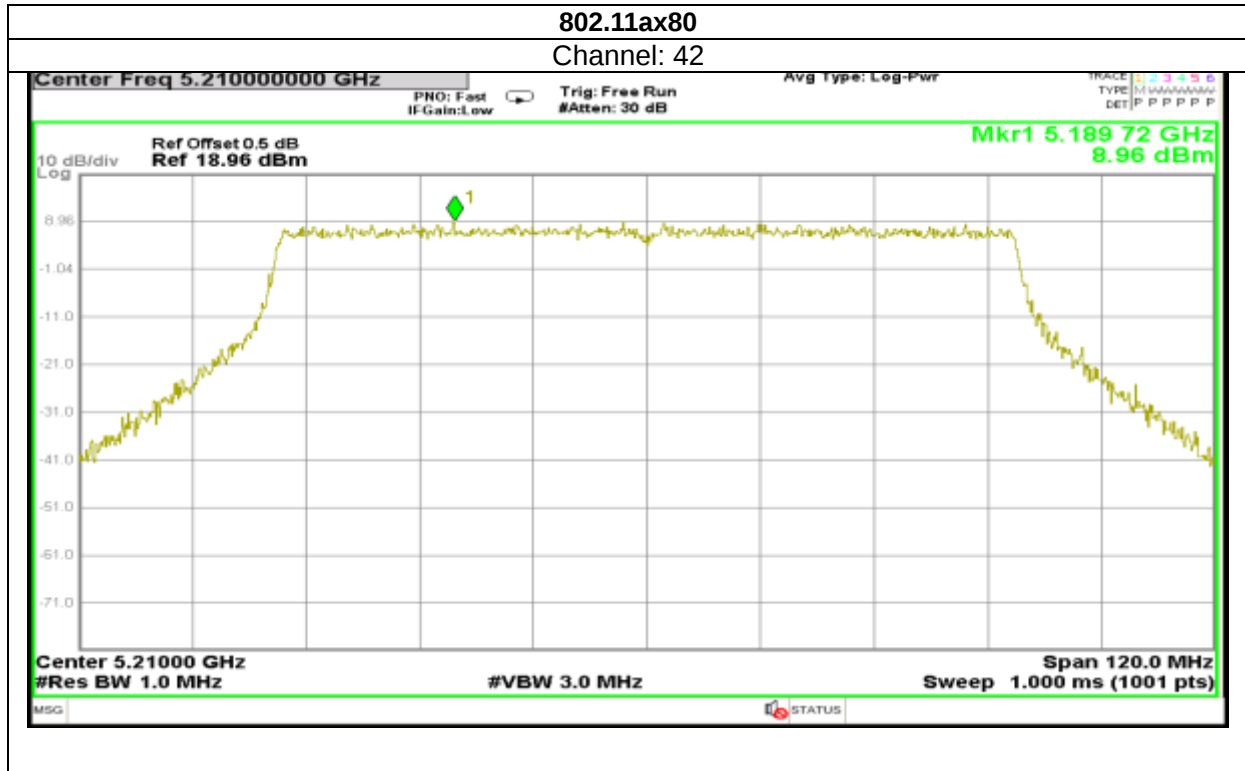
802.11ax40

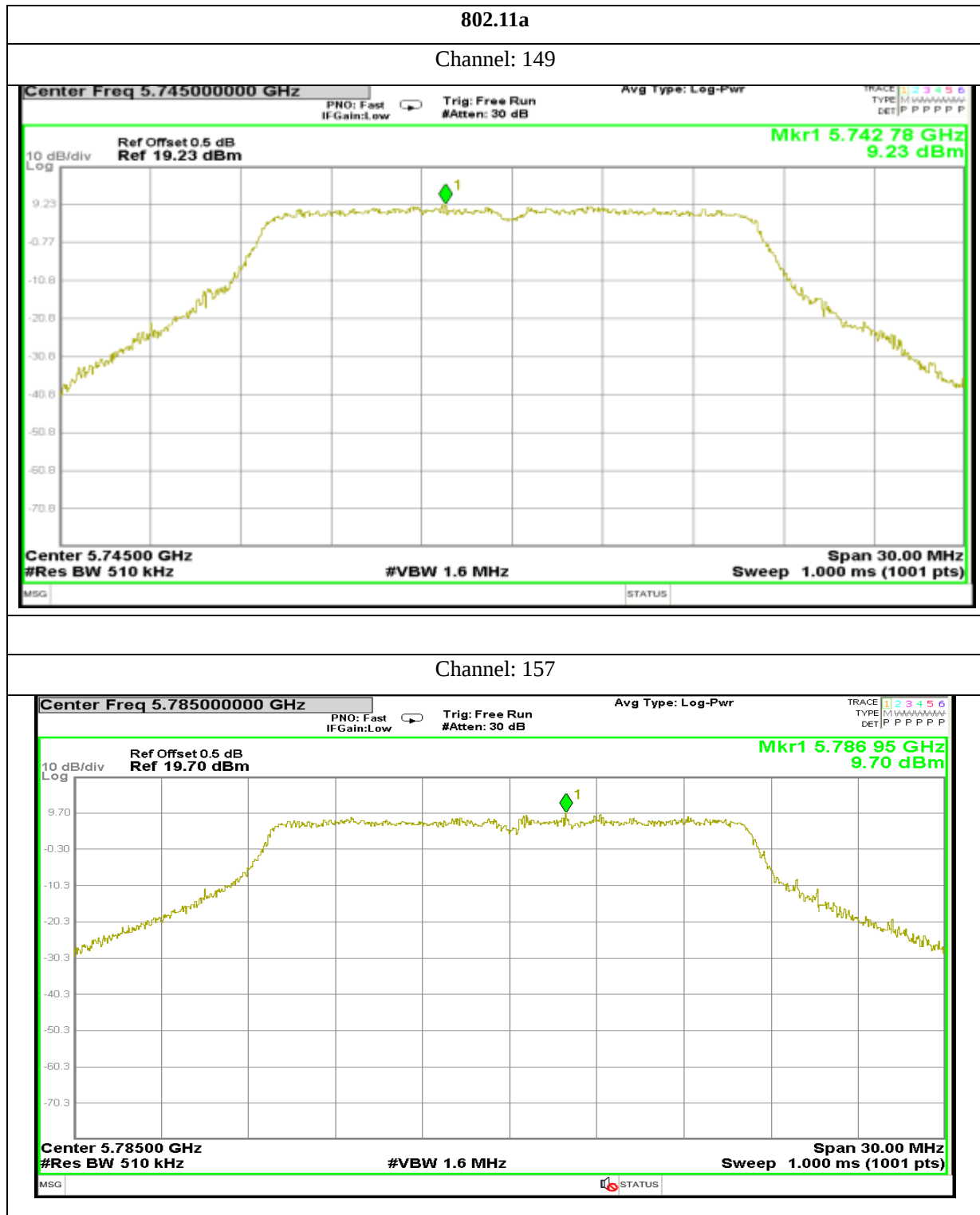
Channel: 38

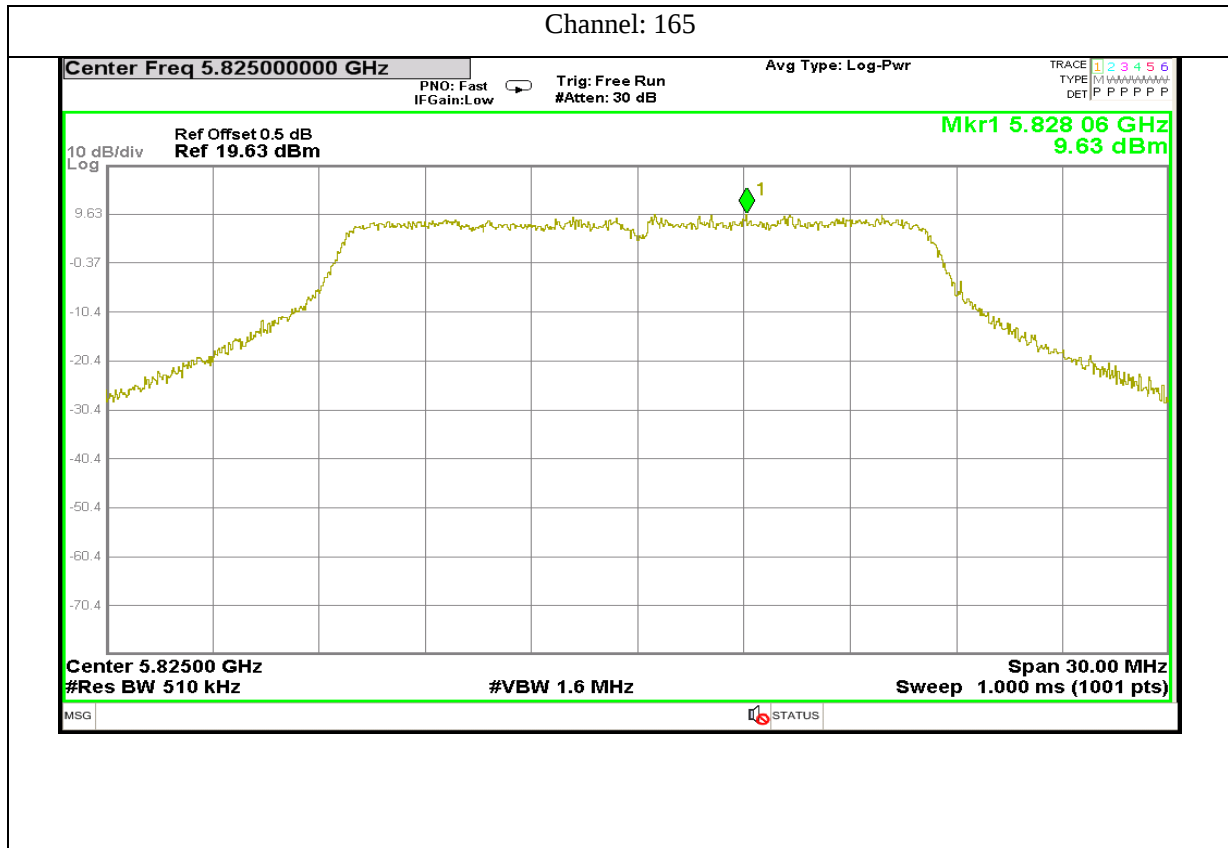


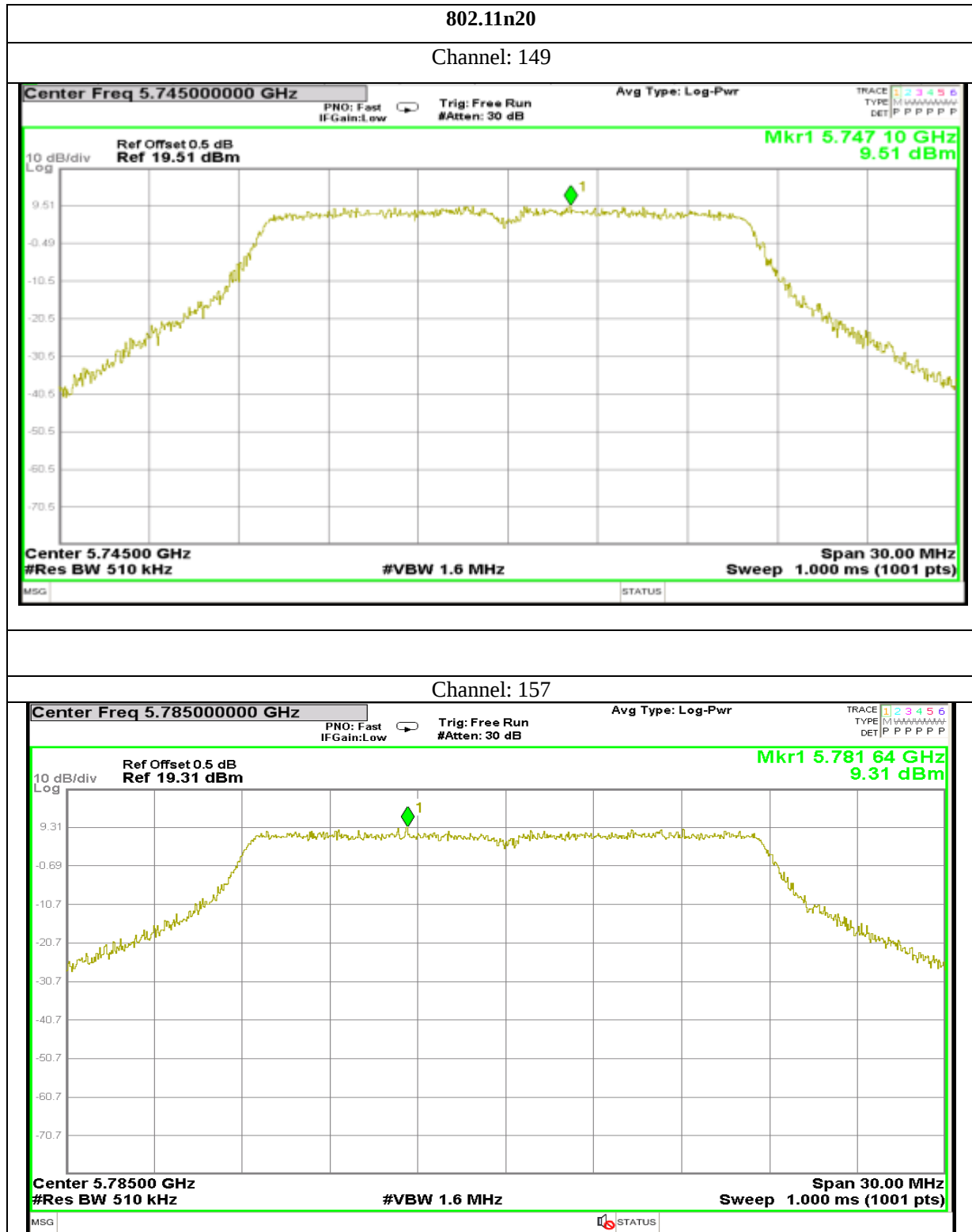
Channel: 46

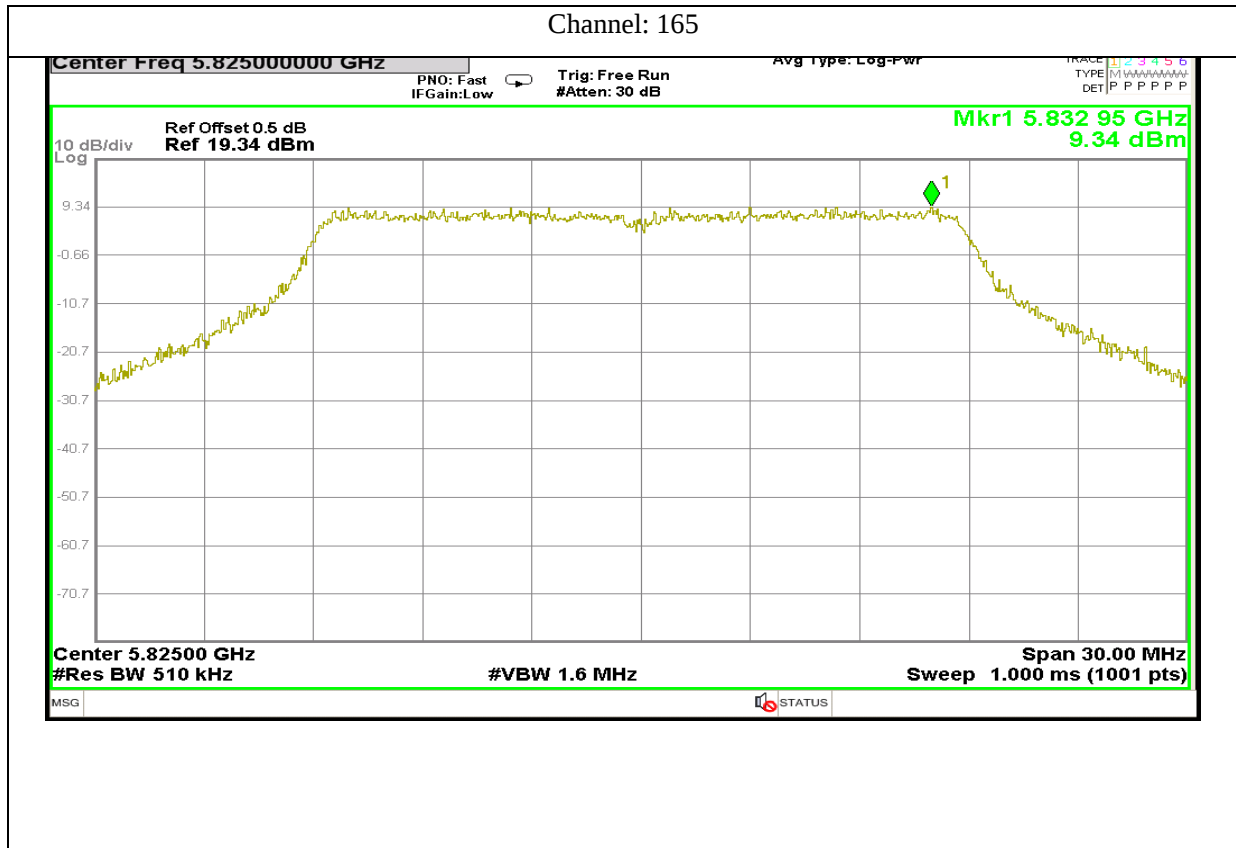


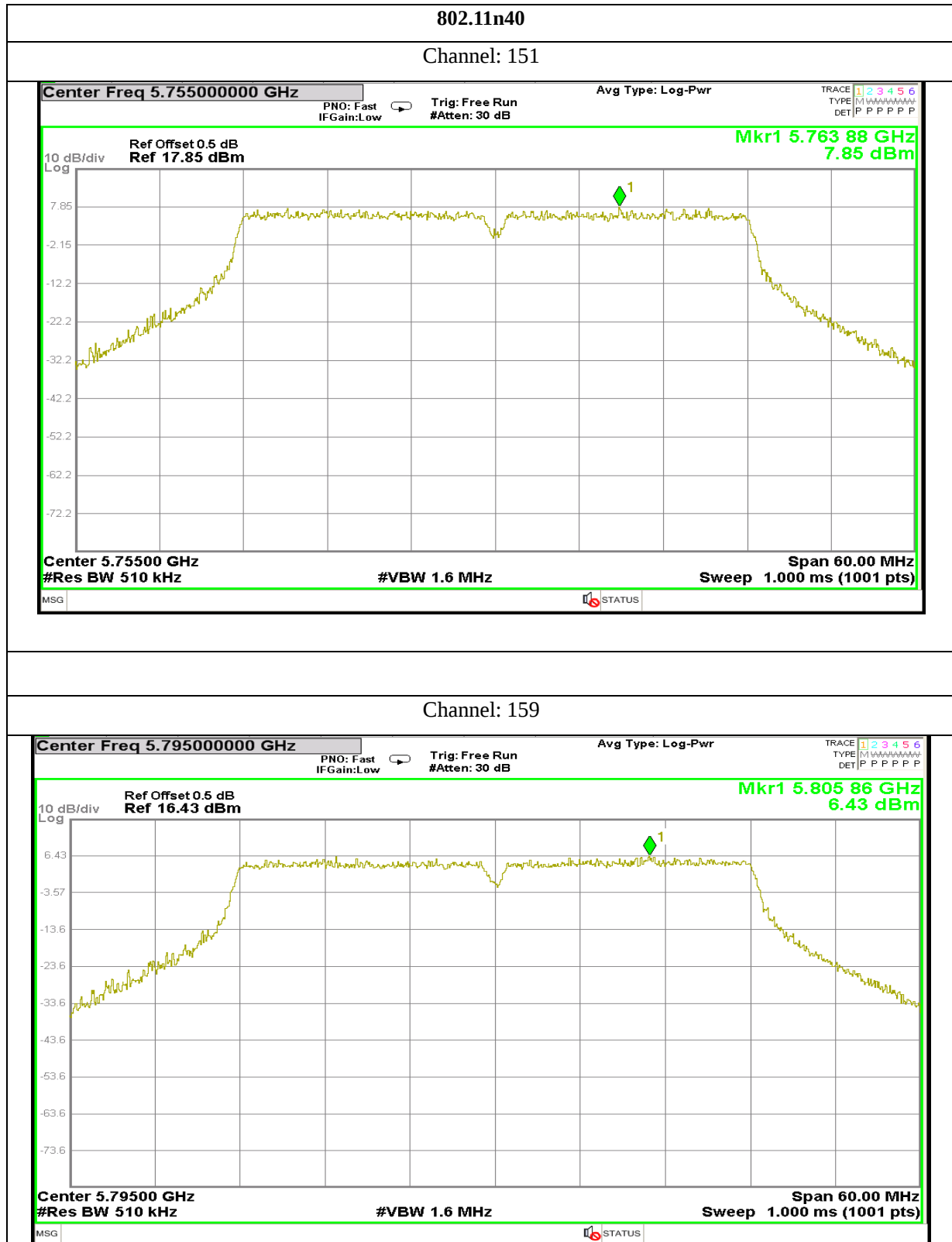






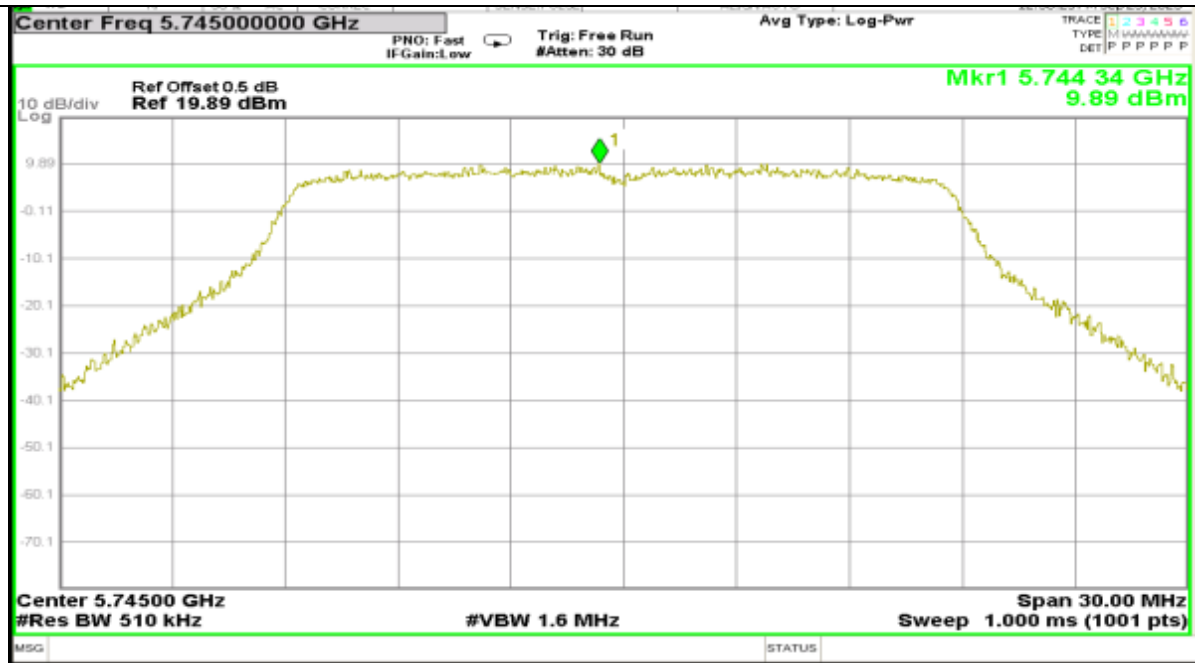




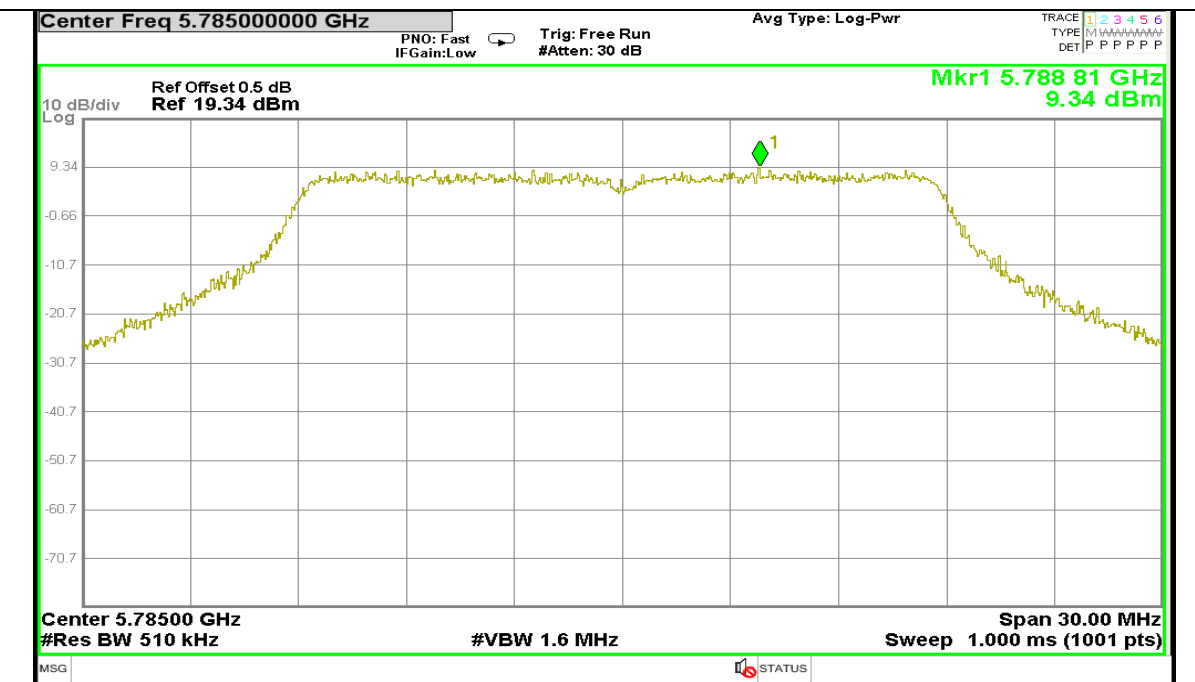


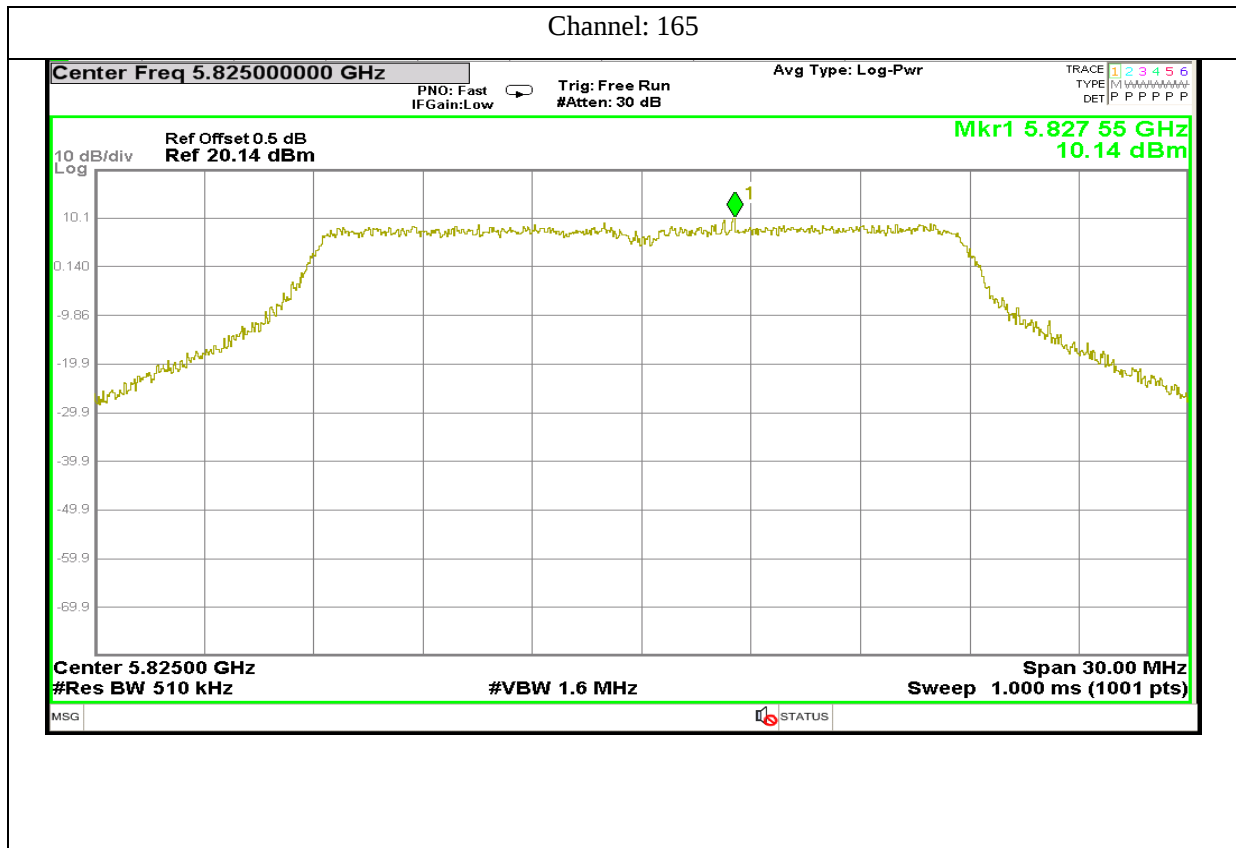
802.11ac20

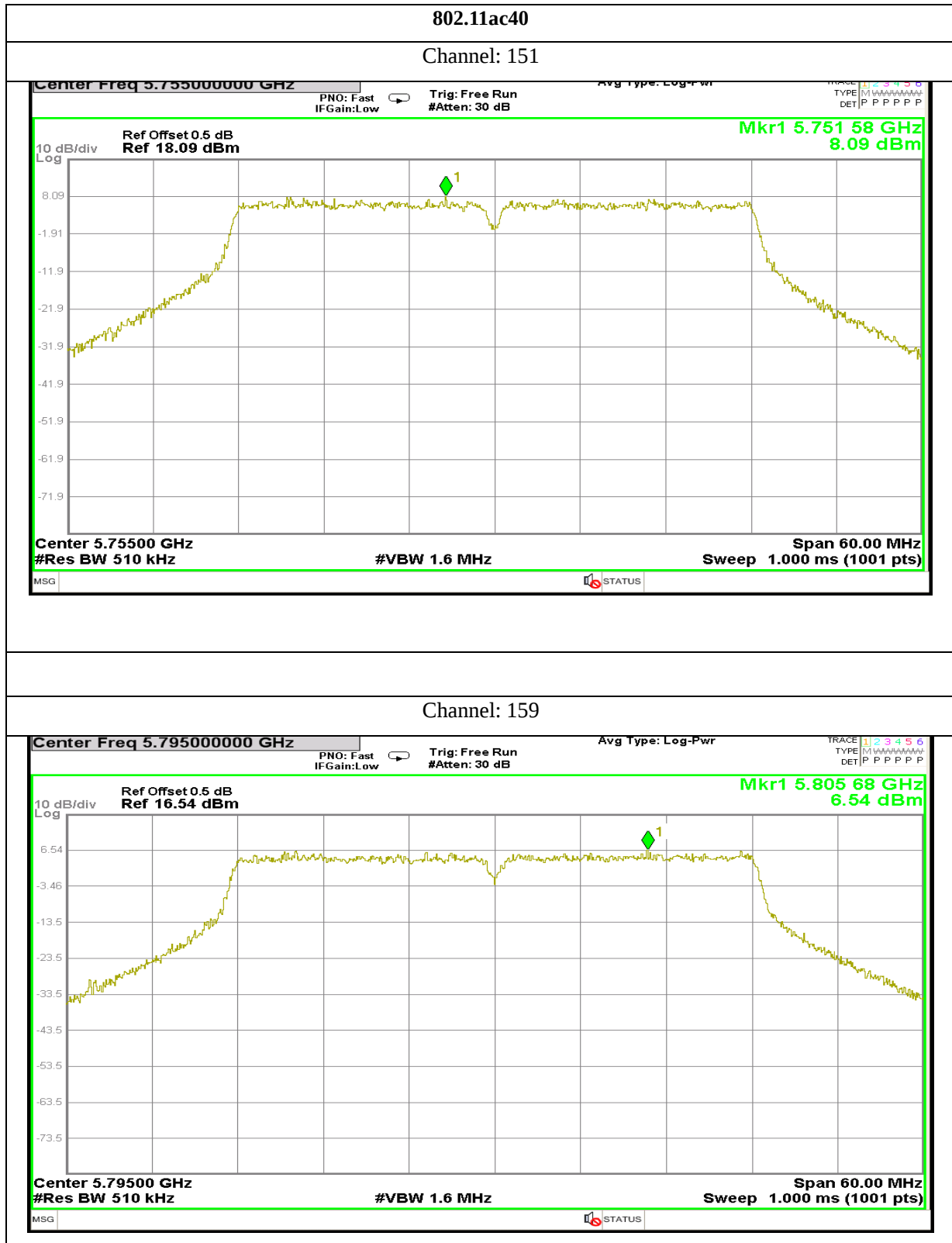
Channel: 149

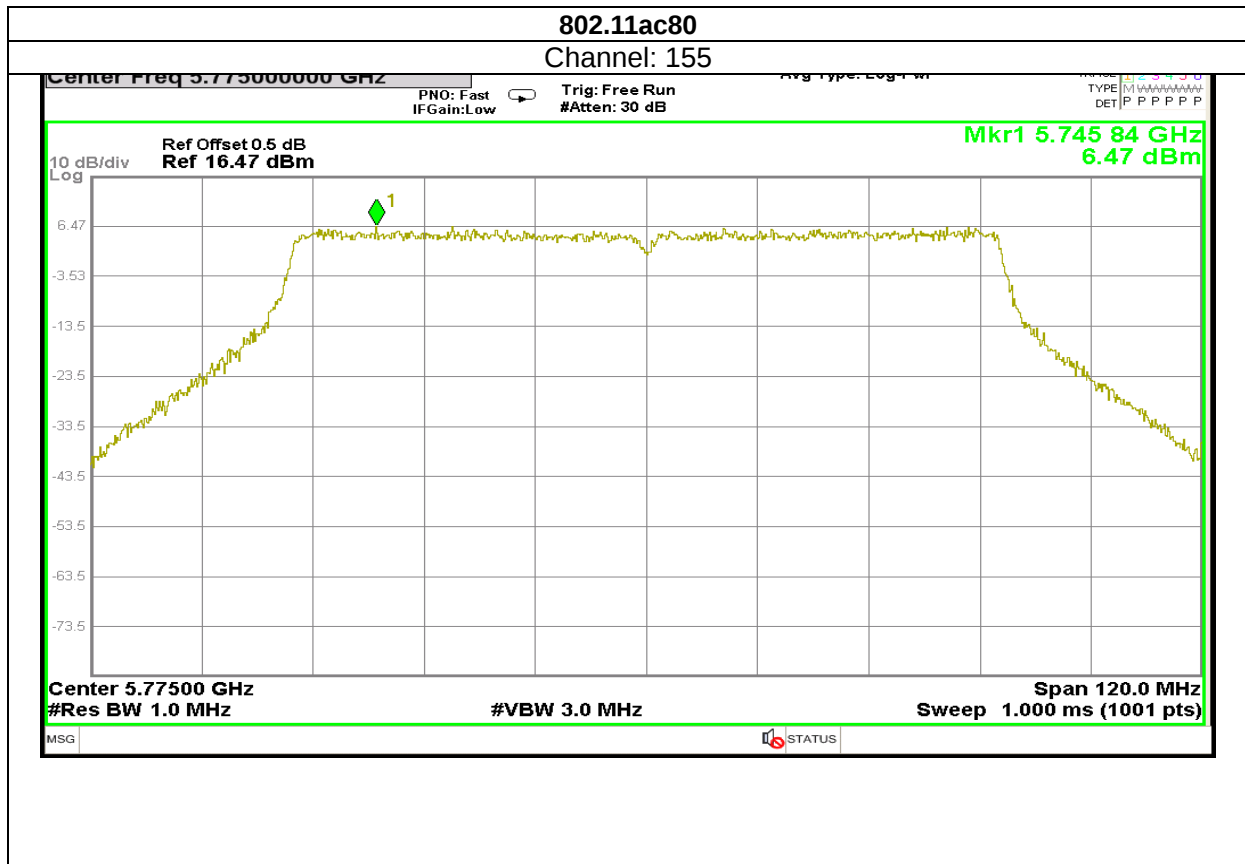


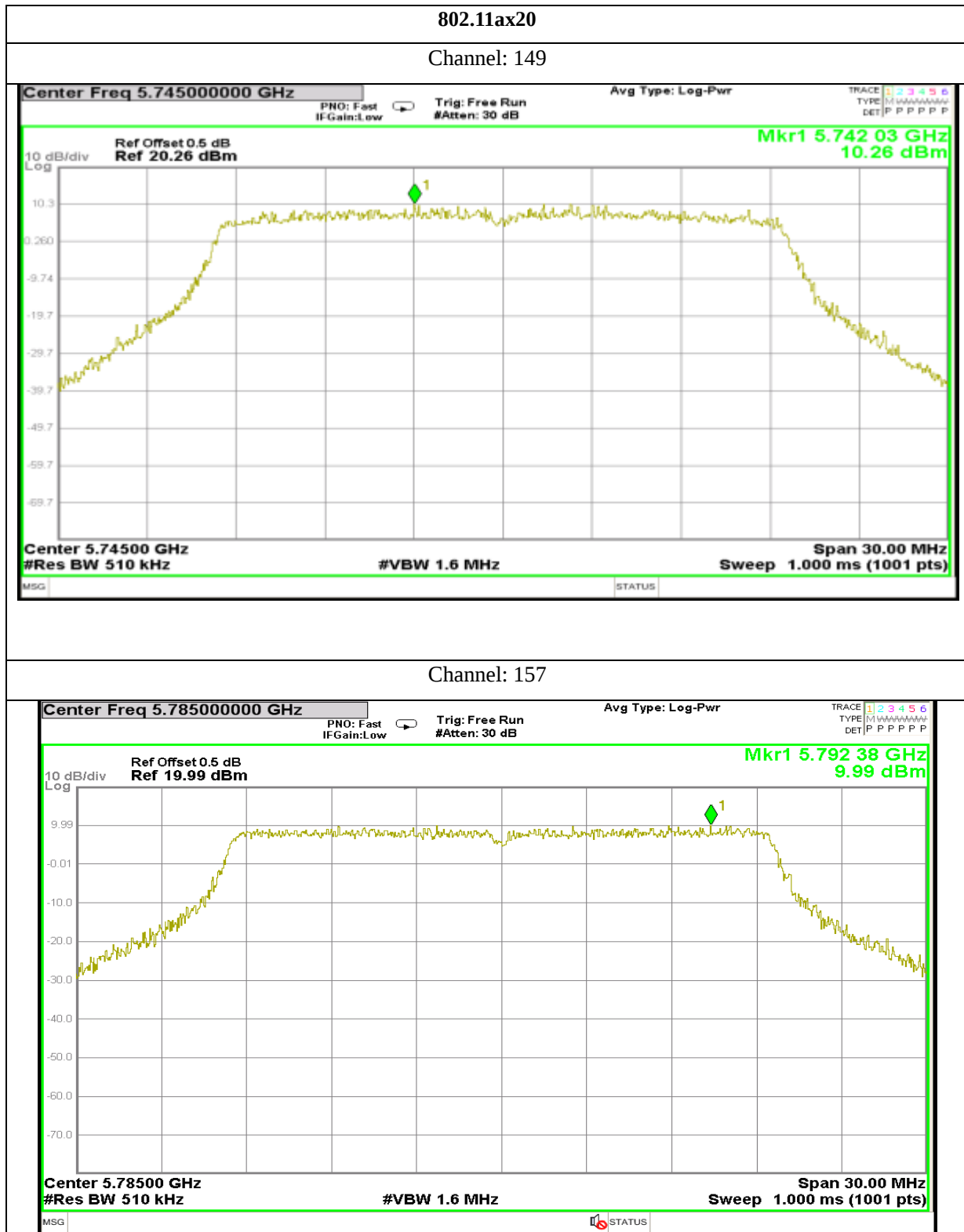
Channel: 157

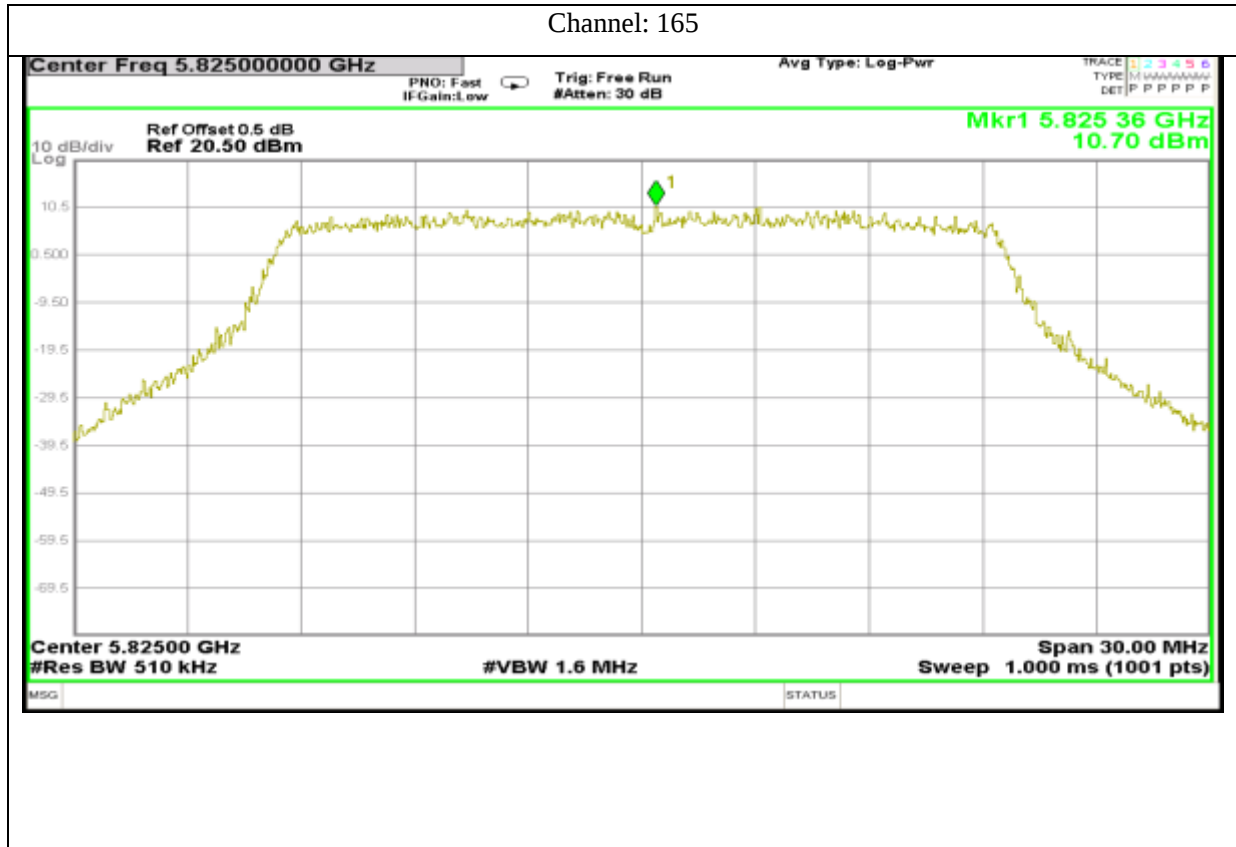


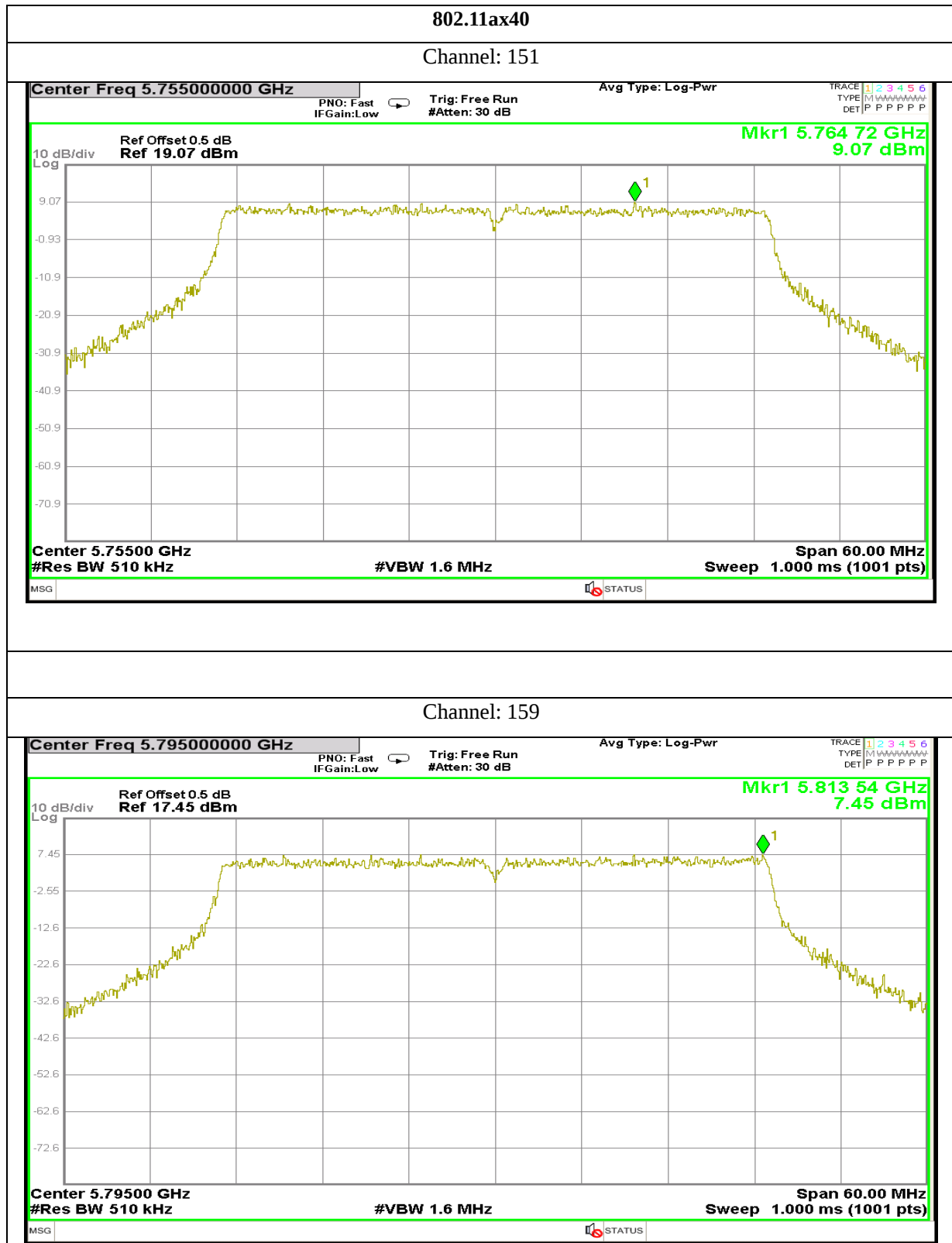


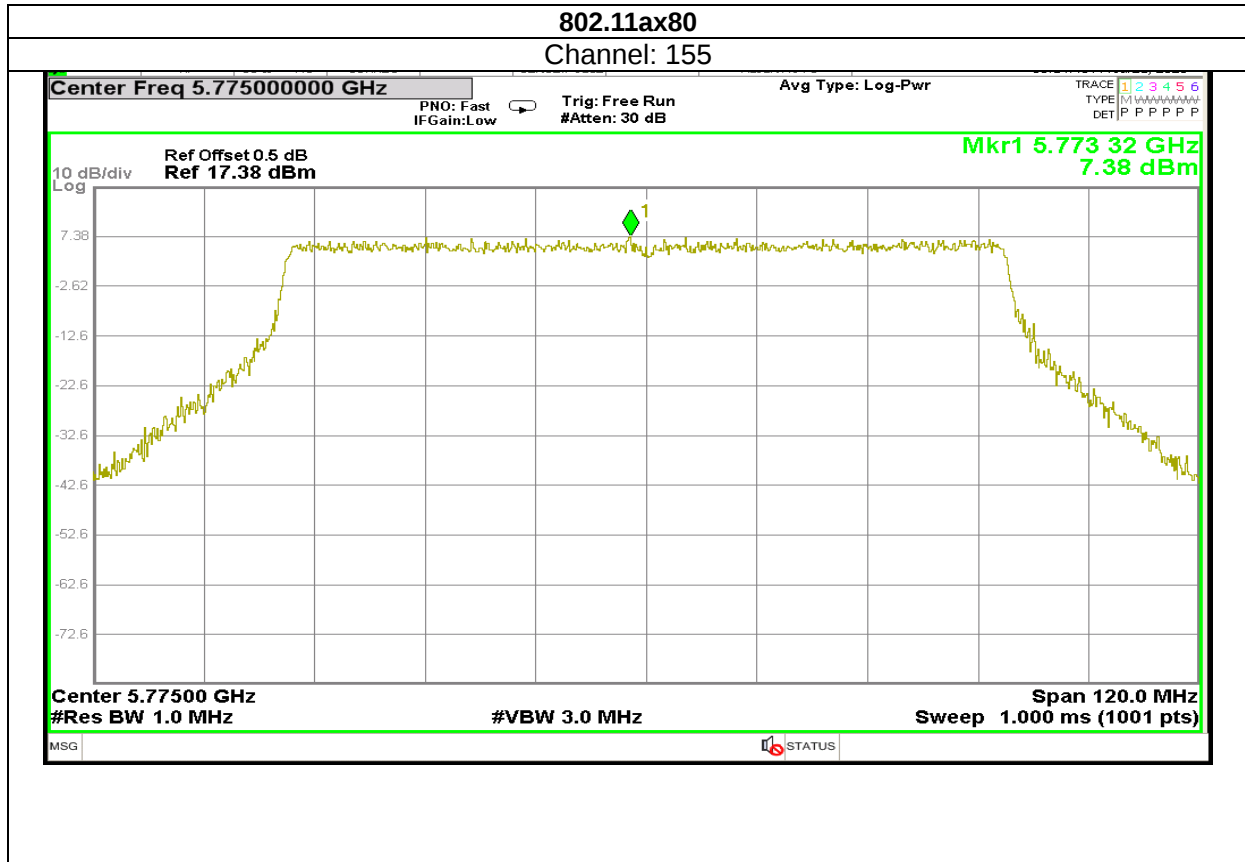




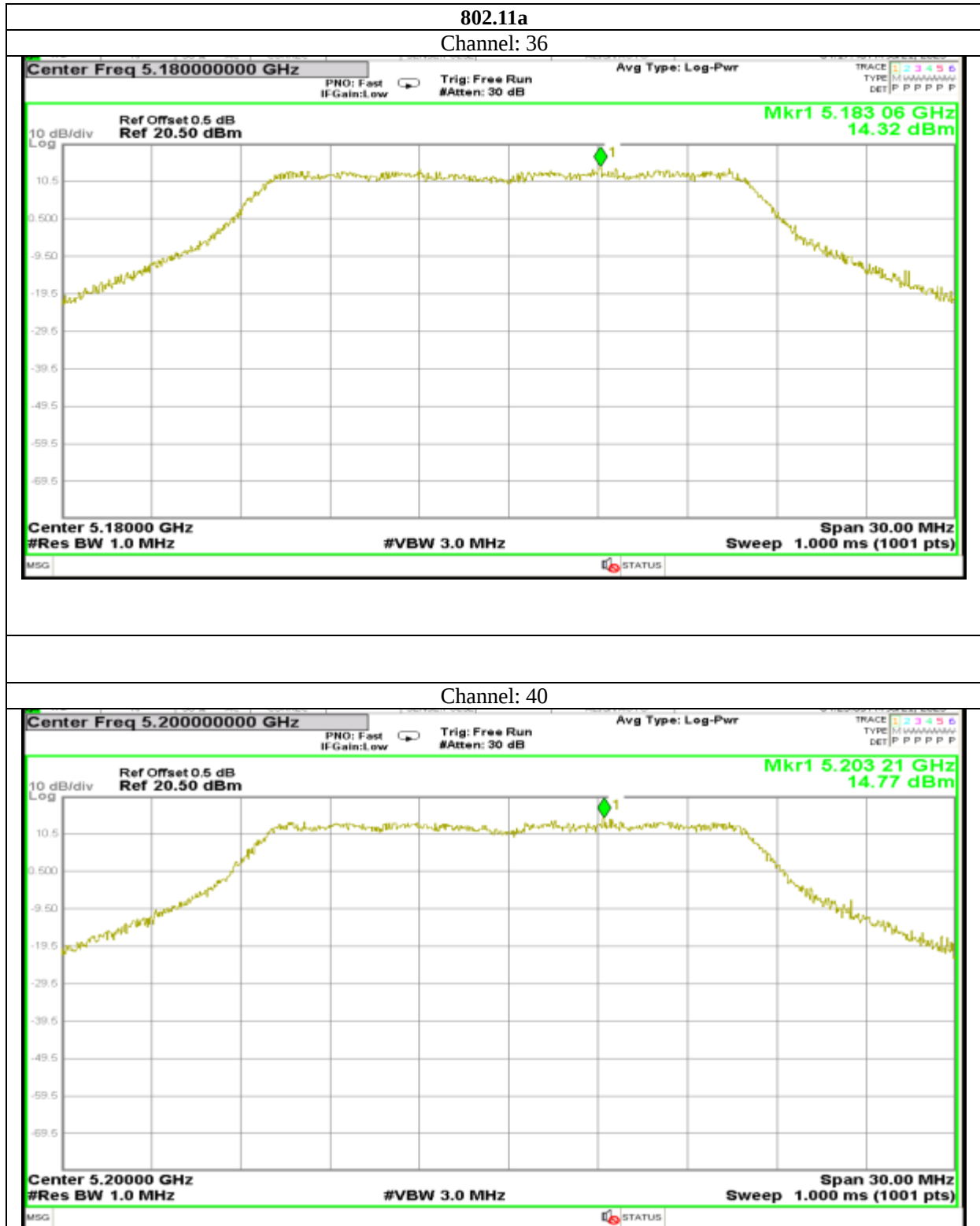




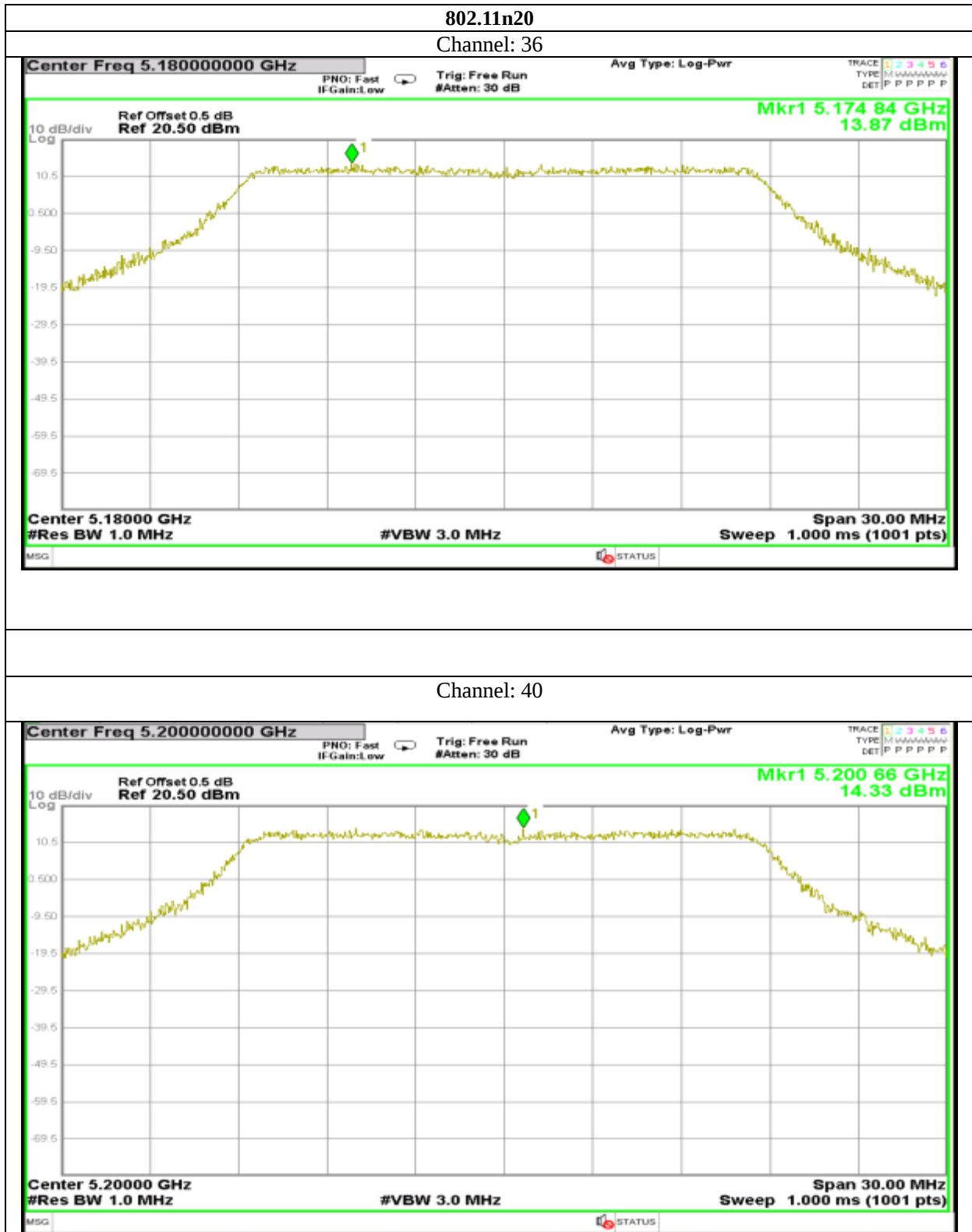




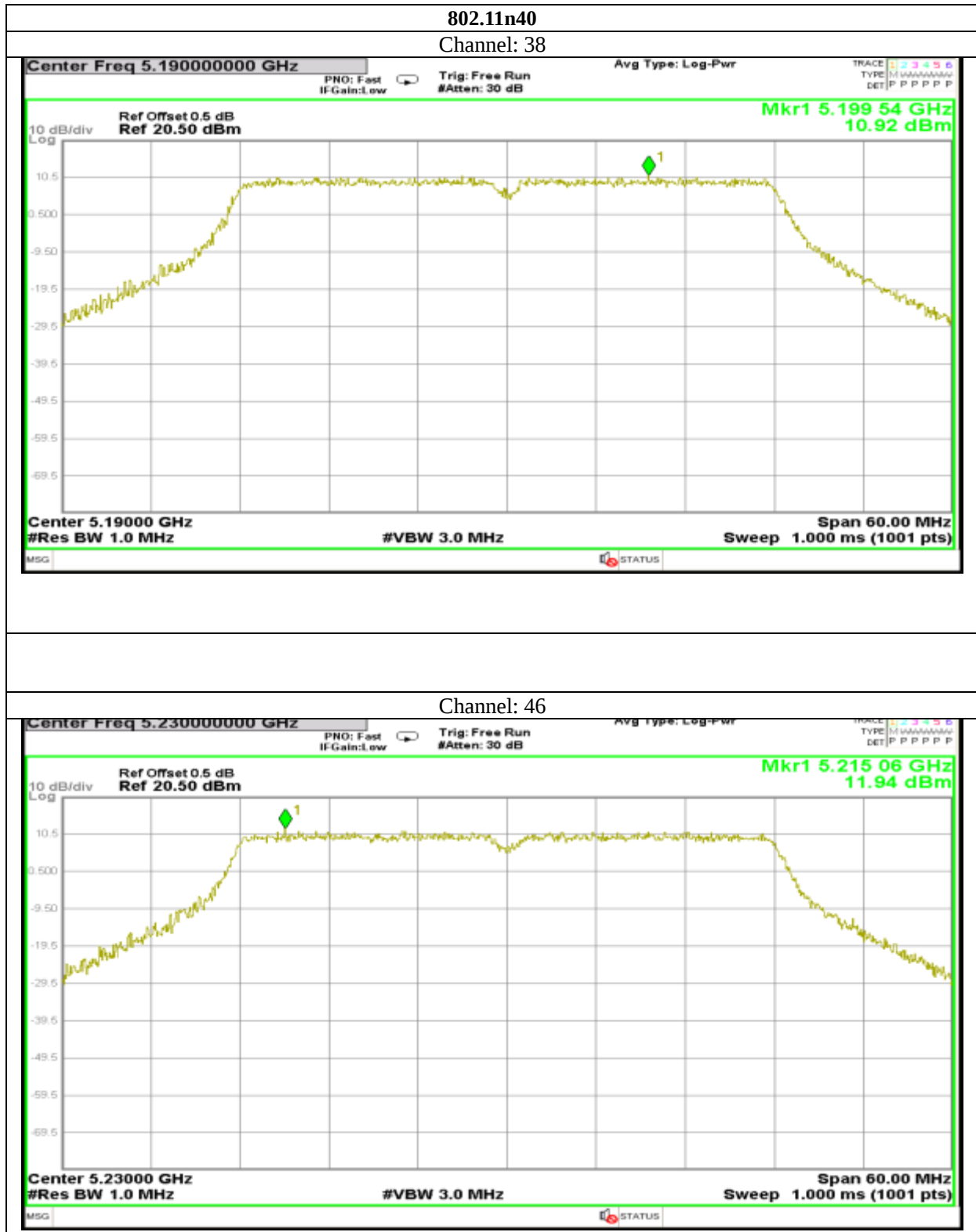
**Antenna 2:**

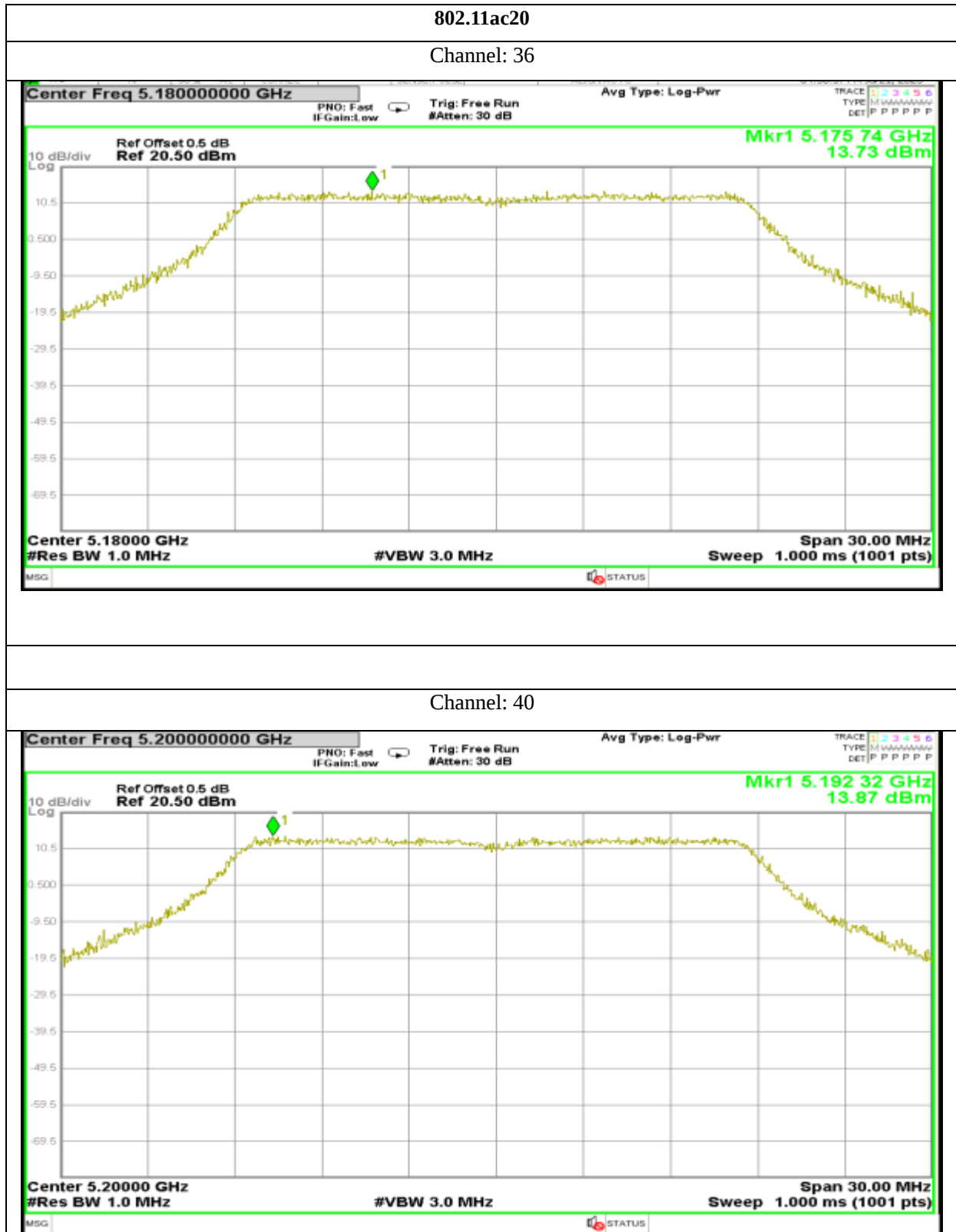




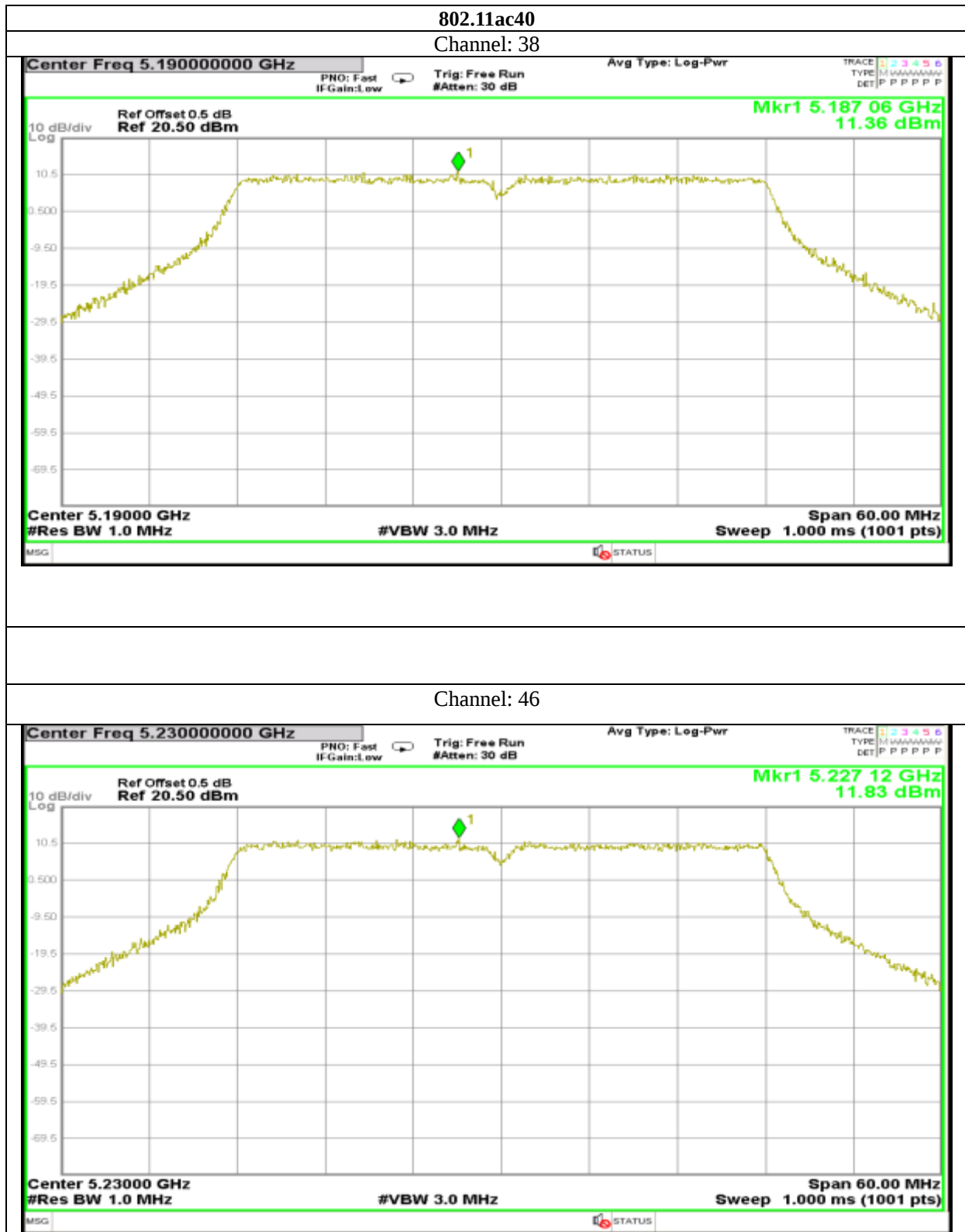




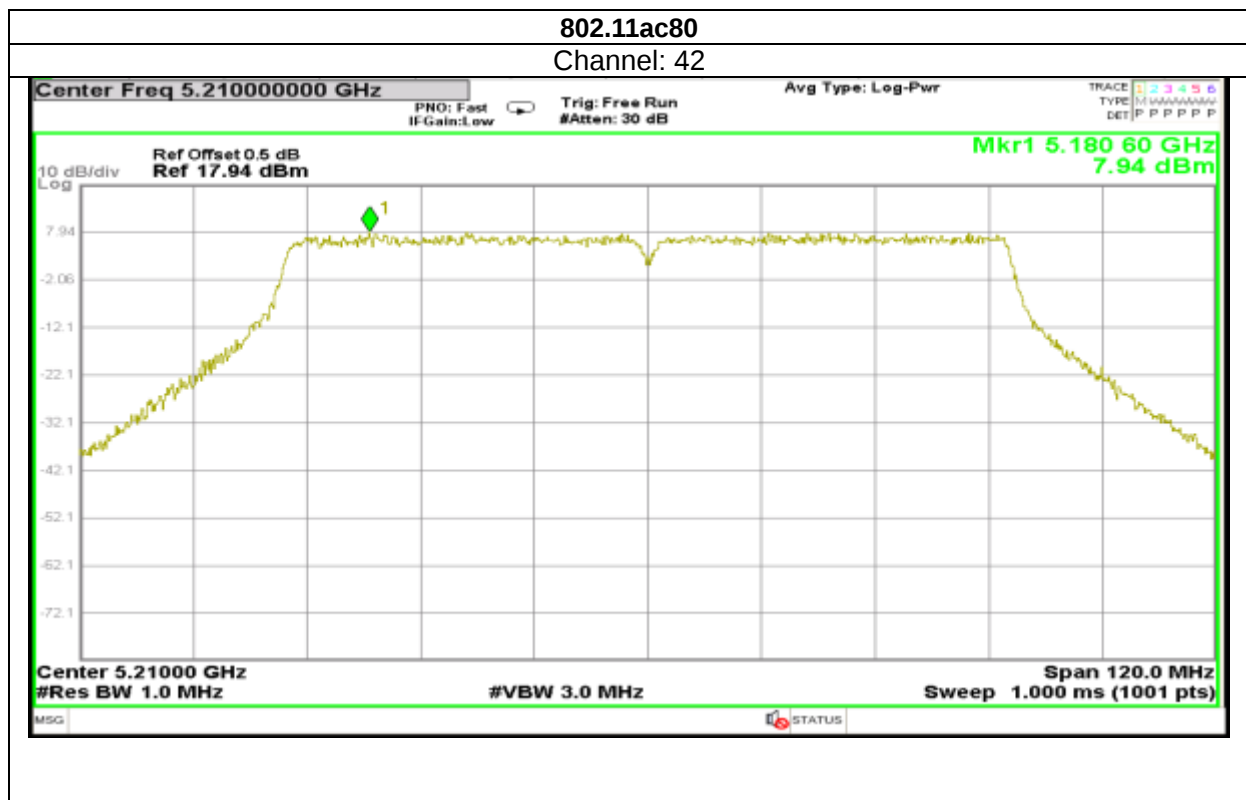


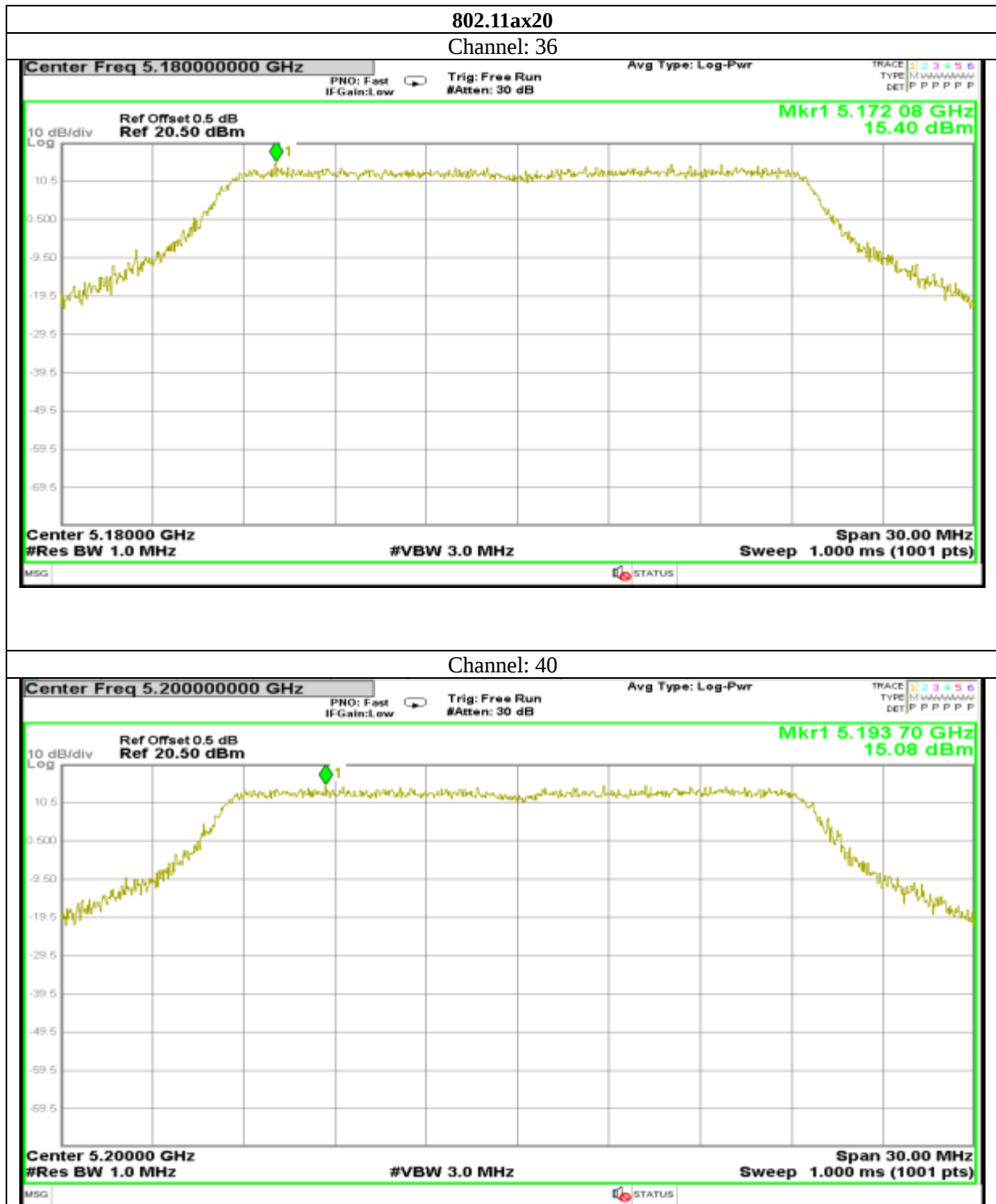


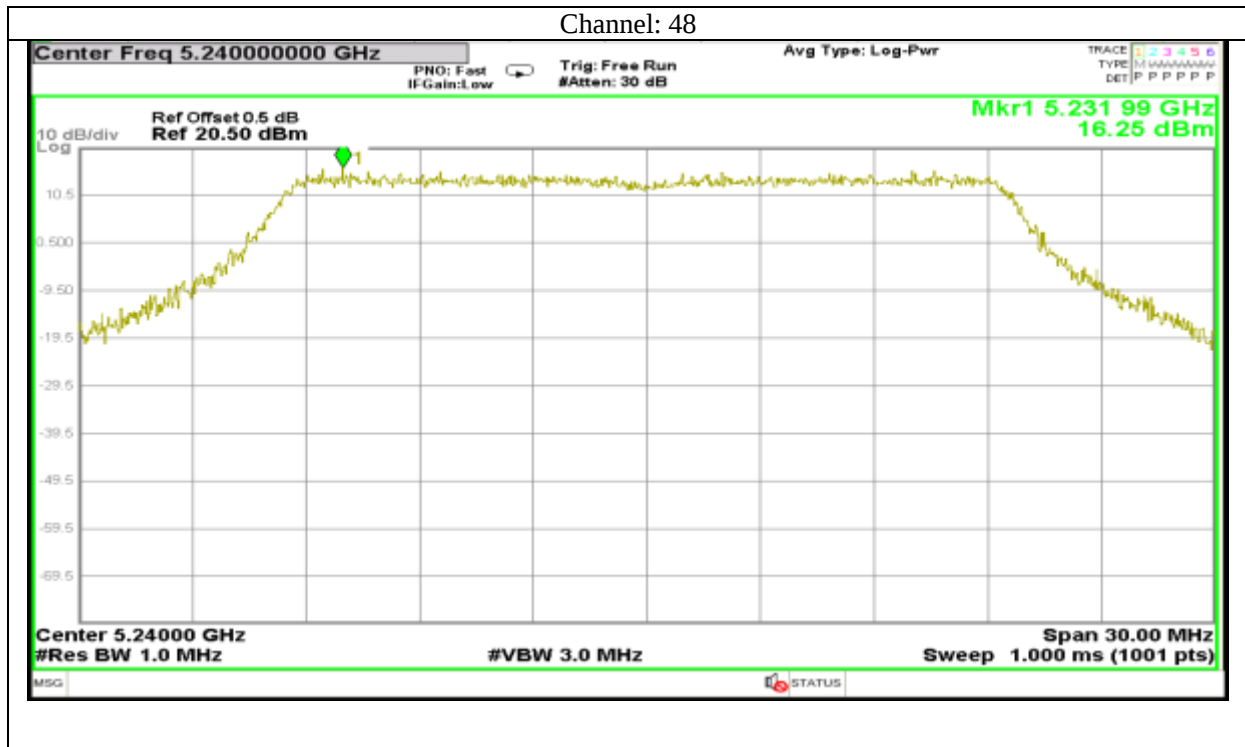


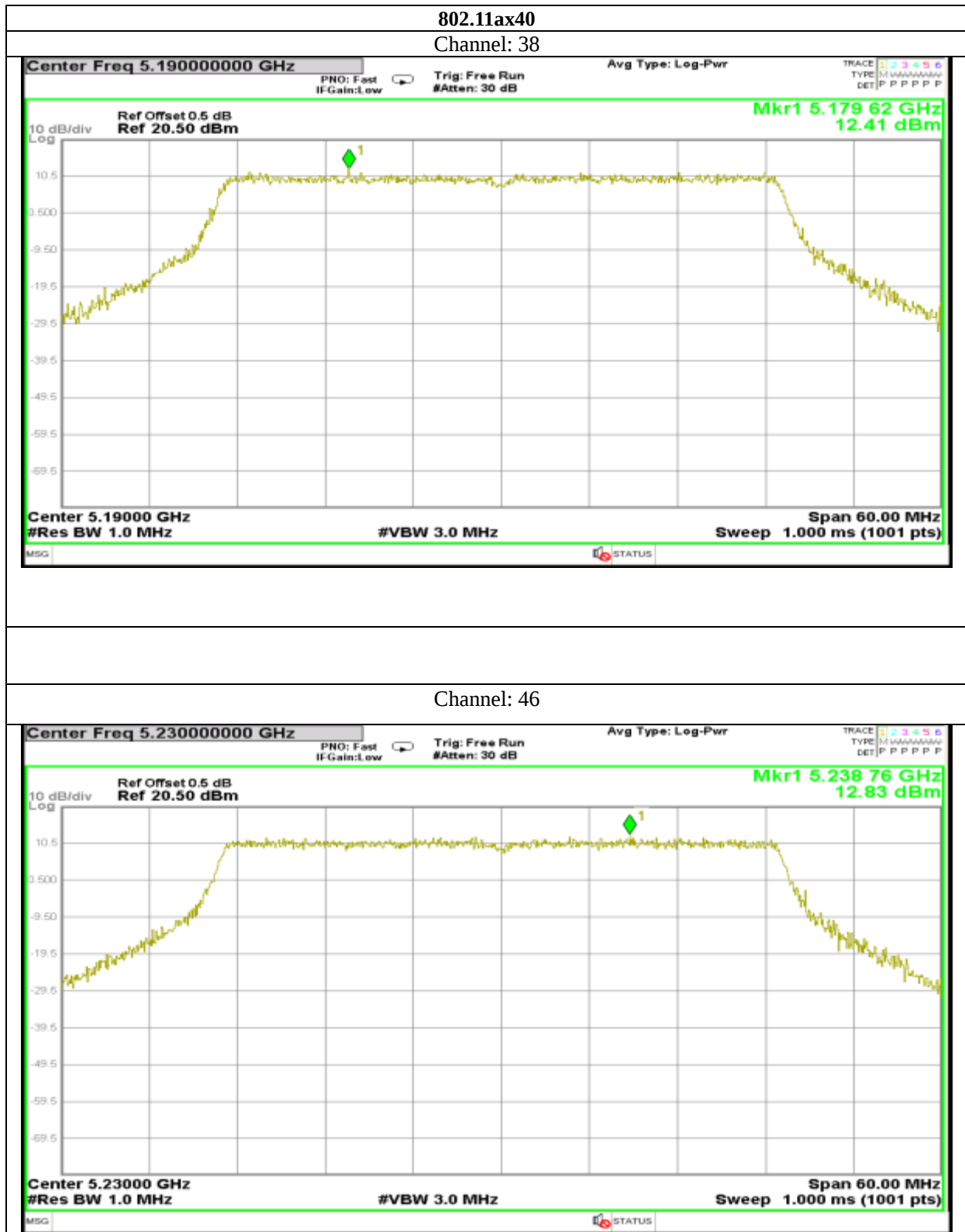


Report No.: AAEMT/RF/231110-04-03

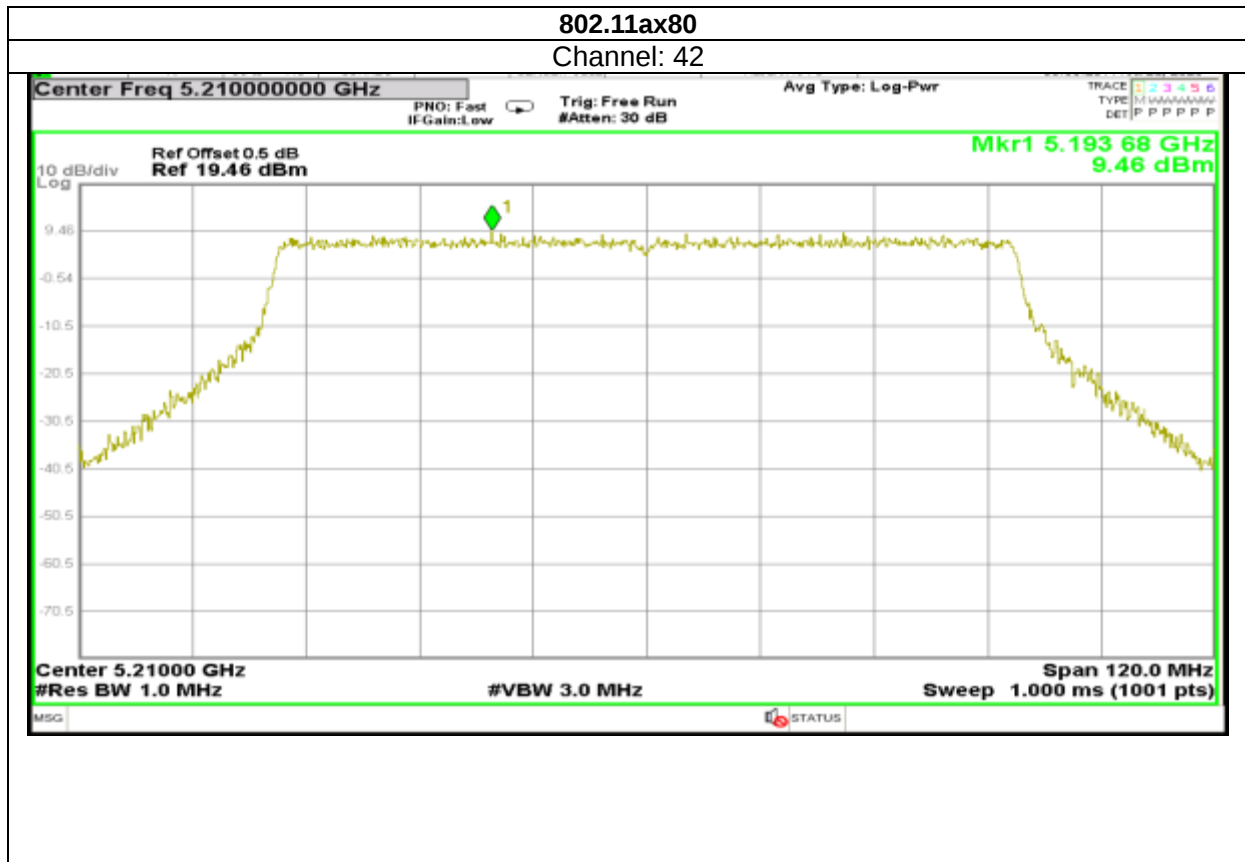






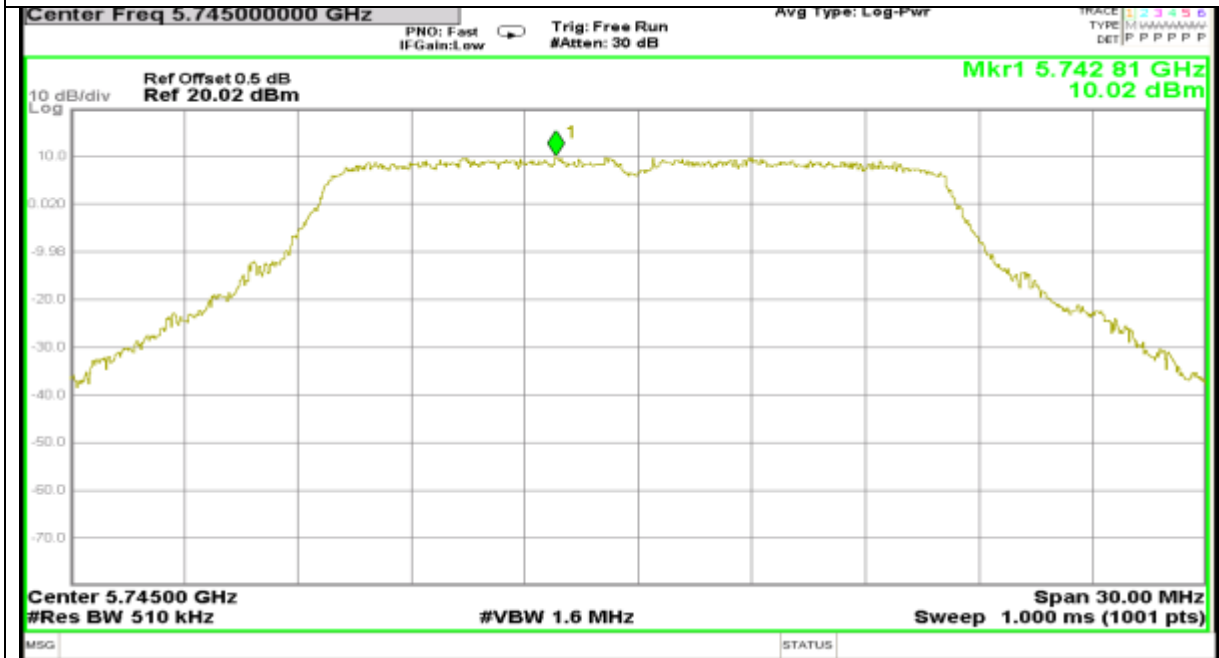


Report No.: AAEMT/RF/231110-04-03



802.11a

Channel: 149



Channel: 157

