

TEST REPORT

Product : Wireless Smart Audio Module
Trade mark : Linkplay
Model/Type reference : A98, A98M, A98M-12, A98M-22,
A98MG, A98-12, A98-22, A98G
Serial Number : N/A
Report Number : EED32L00167704
FCC ID : 2ANOG-A98XX
Date of Issue : Aug. 09, 2019
Test Standards : 47 CFR Part 15 Subpart E
Test result : PASS

Prepared for:

Linkplay Technology Inc
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Date:

Aug. 09, 2019

Check No.: 3915522376



2 Version

| Version No. | Date | Description |
|-------------|------------|-------------|
| 00 | 2019-08-09 | Original |
| | | |
| | | |

3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|--|---|--------------------------|--------|
| Antenna Requirement | 47 CFR Part 15 Subpart C Section 15.203 | ANSI C63.10-2013 | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15 Subpart E Section 15.407 (b)(6) | ANSI C63.10-2013 | PASS |
| Conducted Output Power and transmit power control mechanism | 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1) | ANSI C63.10-2013 | PASS |
| 26dB emission bandwidth | 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2) | ANSI C63.10-2013 | PASS |
| Peak Power Spectral Density | 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(5) | ANSI C63.10-2013 | PASS |
| Peak power excursion | 47 CFR Part 15 Subpart E Section 15.407 (a)(6) | ANSI C63.10-2013 | PASS |
| Frequency stability | 47 CFR Part 15 Subpart E Section 15.407 (g) | ANSI C63.10-2013 | PASS |
| Dynamic Frequency Selection | 47 CFR Part 15 Subpart E Section 15.407 (h) | KDB905462 D02 | PASS |
| Operation in the absence of information to the transmit | 47 CFR Part 15 Subpart E Section 15.407 (c) | 47 CFR Part 15 Subpart E | PASS |
| Unwanted Emissions that fall Outside of the Restricted Bands | 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(5) | ANSI C63.10-2013 | PASS |
| Unwanted Emissions in the Restricted Bands | 47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8) | ANSI C63.10-2013 | PASS |
| Restricted bands around fundamental frequency (Radiated Emission) | 47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8) | ANSI C63.10-2013 | PASS |

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

Model No.: A98, A98M, A98M-12, A98M-22, A98MG, A98-12, A98-22, A98G

Only the model A98 was tested, The difference is that ROM and RAM are different in size or customer.

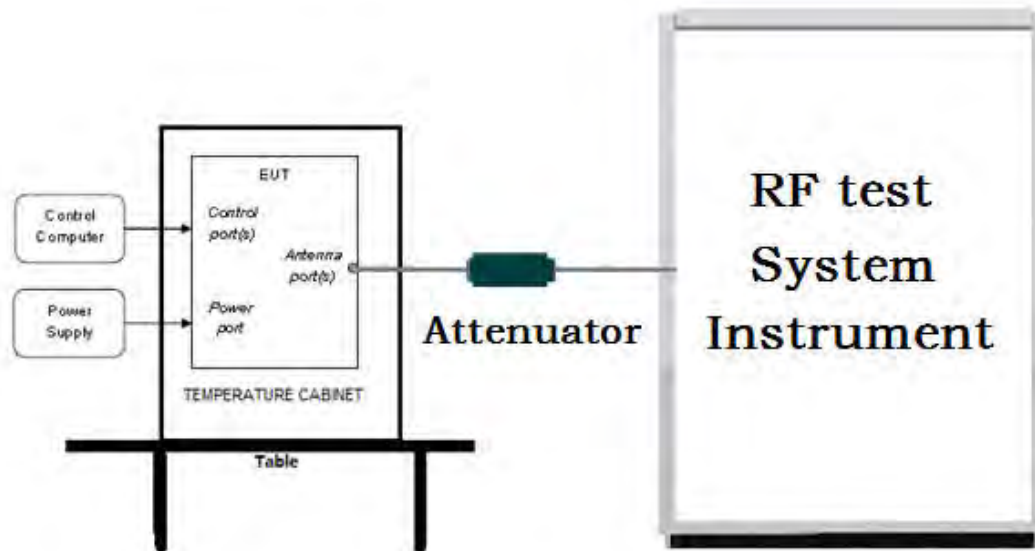
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

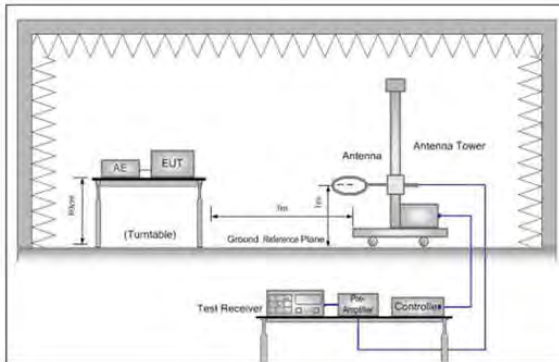


Figure 1. Below 30MHz

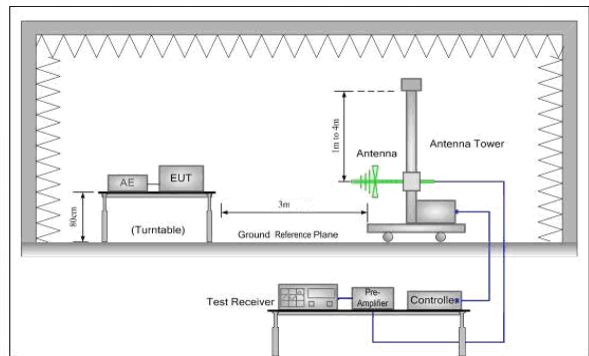


Figure 2. 30MHz to 1GHz

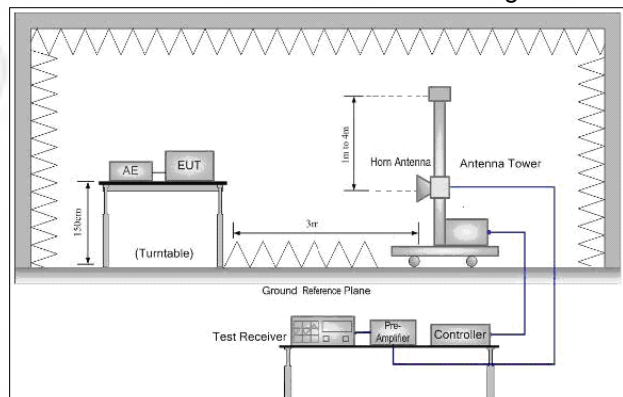
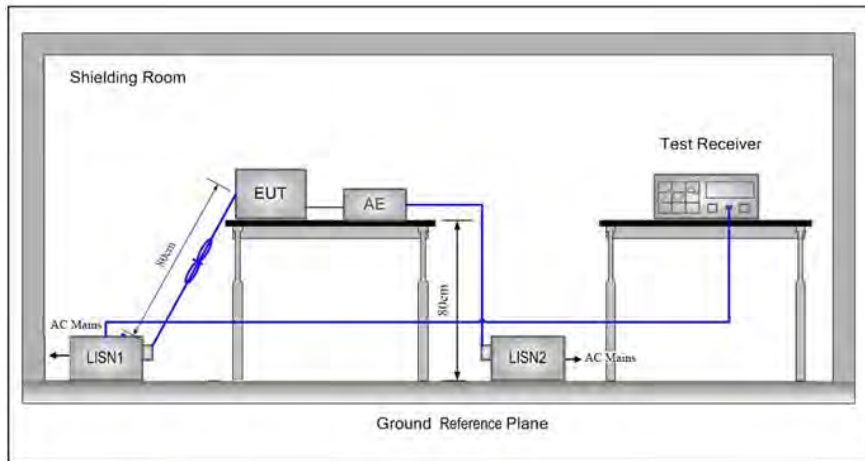


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup
Conducted Emissions setup



5.2 Test Environment

| Operating Environment: | |
|------------------------|----------|
| Temperature: | 25.0 °C |
| Humidity: | 57 % RH |
| Atmospheric Pressure: | 1010mbar |

5.3 Test Condition

Test channel:

| Test Mode | Tx/Rx | RF Channel | | |
|--------------------|-------------------|-------------|------------|-------------|
| | | Low(L) | Middle(cm) | High(H) |
| 802.11a/n/ac(HT20) | 5150MHz ~5250 MHz | Channel 36 | Channel 44 | Channel 48 |
| | | 5180MHz | 5220MHz | 5240MHz |
| 802.11a/n/ac(HT20) | 5250MHz ~5350 MHz | Channel 52 | Channel 60 | Channel 64 |
| | | 5260MHz | 5300MHz | 5320MHz |
| 802.11a/n/ac(HT20) | 5470MHz ~5600 MHz | Channel 100 | Channel108 | Channel116 |
| | | 5500MHz | 5600MHz | 5580MHz |
| 802.11a/n/ac(HT20) | 5650MHz ~5725 MHz | Channel 132 | Channel136 | Channel140 |
| | | 5660MHz | 5680MHz | 5700MHz |
| 802.11a/n/ac(HT20) | 5725MHz ~5850 MHz | Channel 149 | Channel157 | Channel165 |
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11n/ac(HT40) | 5150MHz ~5250 MHz | Channel 38 | N/A | Channel 46 |
| | | 5190MHz | N/A | 5230MHz |
| 802.11n/ac(HT40) | 5250MHz ~5350 MHz | Channel54 | N/A | Channel62 |
| | | 5270MHz | N/A | 5310MHz |
| 802.11n/ac(HT40) | 5470MHz ~5600 MHz | Channel 102 | N/A | Channel 110 |
| | | 5510MHz | N/A | 5550MHz |
| 802.11n/ac(HT40) | 5650MHz ~5725 MHz | Channel 134 | N/A | N/A |
| | | 5670MHz | N/A | N/A |
| 802.11ac(HT40) | 5725MHz ~5850 MHz | Channel 151 | N/A | Channel 159 |
| | | 5755MHz | N/A | 5795MHz |
| 802.11ac(HT80) | 5150MHz ~5250 MHz | Channel 42 | N/A | N/A |
| | | 5210MHz | N/A | N/A |
| 802.11ac(HT80) | 5250MHz ~5350 MHz | Channel58 | N/A | N/A |
| | | 5290MHz | N/A | N/A |
| 802.11ac(HT80) | 5470MHz ~5600 MHz | Channel 106 | N/A | N/A |
| | | 5530MHz | N/A | N/A |
| 802.11ac(HT80) | 5725MHz ~5850 MHz | Channel 155 | N/A | N/A |
| | | 5775MHz | N/A | N/A |

6 General Information

6.1 Client Information

| | |
|--------------------------|--|
| Applicant: | Linkplay Technology Inc |
| Address of Applicant: | 8F-8036, Qianren Building, No. 7, Yingcui Road, Jiangning District, Nanjing, China |
| Manufacturer: | Linkplay Technology Inc |
| Address of Manufacturer: | 8F-8036, Qianren Building, No. 7, Yingcui Road, Jiangning District, Nanjing, China |
| Factory: | Linkplay Technology Inc |
| Address of Factory: | 8F-8036, Qianren Building, No. 7, Yingcui Road, Jiangning District, Nanjing, China |

2General Description of EUT

| | | |
|----------------------------------|---|-------|
| Product Name: | Wireless Smart Audio Module | |
| Model No.(EUT): | A98, A98M, A98M-12, A98M-22, A98MG, A98-12, A98-22, A98G | |
| Test Model No.: | A98 | |
| Trade Mark: | Linkplay | |
| EUT Supports Radios application: | 5G WiFi, 802.11a/n(HT20)/n(HT40)/ac(HT20)/ac(HT40)/ac(HT80) | |
| Power Supply: | Battery: | DC 5V |
| Sample Received Date: | Jun. 26, 2019 | |
| Sample tested Date: | Jun. 26, 2019 to Aug. 09, 2018 | |

6.2 Product Specification subjective to this standard

| | |
|------------------------|---|
| Operation Frequency: | IEEE 802.11a/n/ac(HT20): 5180MHz ~5240 MHz IEEE 802.11a/n/ac(HT20): 5260MHz ~5320 MHz IEEE 802.11a/n/ac(HT20): 5500MHz ~5700 MHz IEEE802.11a/n/ac(HT20): 5745MHz ~5825 MHz IEEE802.11n/ac(HT40) 5190MHz ~5230 MHz IEEE802.11n/ac(HT40) 5270MHz ~5310 MHz IEEE802.11n/ac(HT40) 5510MHz ~5670 MHz IEEE802.11n/ac(HT40) 5755MHz ~5795 MHz IEEE802.11ac(HT80) 5210 IEEE802.11ac(HT80) 5290 IEEE802.11ac(HT80) 5530 ~ 5610 IEEE802.11ac(HT80) 5775 |
| Channel Numbers: | IEEE 802.11a/n/ac(HT20): 5180MHz ~5240 MHz / 4 channel IEEE 802.11a/n/ac(HT20): 5260MHz ~5320 MHz / 4 channel IEEE 802.11a/n/ac(HT20): 5500MHz ~5700 MHz / 11 channel IEEE802.11a/n/ac(HT20): 5745MHz ~5825 MHz / 5 channel IEEE802.11n/ac(HT40) 5190MHz ~5230 MHz/ 2 channel IEEE802.11n/ac(HT40) 5270MHz ~5310 MHz / 2 channel IEEE802.11n/ac(HT40) 5510MHz ~5670 MHz / 5 channel IEEE802.11n/ac(HT40) 5755MHz ~5795 MHz / 2 channel IEEE802.11ac(HT80) 5210 / 1 channel IEEE802.11ac(HT80) 5290 / 1 channel IEEE802.11ac(HT80) 5530 ~ 5610 / 2 channel IEEE802.11ac(HT80) 5775 /1 channel |
| Type of Modulation: | OFDM, |
| Test Power Grade: | N/A |
| Test Software of EUT: | Linkplay Factory Tool For Custom (manufacturer declare) |
| Antenna Type and Gain: | PIFA antenna, Gain: 4.64dBi |
| Test Voltage: | DC 5V |

Operation Frequency each of channel

| For 802.11a/n/ac(HT20) Operation in the 5180 ~ 5240 band | | | | | | | |
|---|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 36 | 5180MHz | 40 | 5200MHz | 44 | 5220MHz | 48 | 5240MHz |

| For 802.11a/n/ac(HT20) Operation in the 5260MHz ~5320 MHz MHz band | | | | | | | |
|---|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 52 | 5260MHz | 56 | 5280MHz | 60 | 5300MHz | 64 | 5320MHz |

| For 802.11a/n/ac(HT20) Operation in the 5500MHz ~5700 MHz band | | | | | | | |
|---|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 100 | 5500MHz | 104 | 5520MHz | 108 | 5540MHz | 112 | 5560MHz |
| 116 | 5580MHz | 120 | 5600MHz | 124 | 5620MHz | 128 | 5640MHz |
| 132 | 5660MHz | 136 | 5680MHz | 140 | 5700MHz | N/A | N/A |

| For 802.11a/n/ac(HT20) Operation in the 5745MHz ~5825 MHz band | | | | | | | |
|---|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 149 | 5745MHz | 153 | 5765MHz | 157 | 5785MHz | 161 | 5805MHz |
| 165 | 5825MHz | N/A | N/A | N/A | N/A | N/A | N/A |

| For 802.11n/ac(HT40) Operation in the 5190MHz ~5230MHz band | | | |
|--|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 38 | 5190MHz | 46 | 5230MHz |

| For 802.11n/ac(HT40) Operation in the 5270MHz ~5310 MHz band | | | |
|---|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 54 | 5190MHz | 46 | 5310MHz |

| For 802.11a/n/ac(HT40) Operation in the 551MHz ~5670 MHz band | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 102 | 5510MHz | 110 | 5550MHz | 118 | 5590MHz | 126 | 5630MHz |
| 134 | 5670MHz | N/A | N/A | N/A | N/A | N/A | N/A |

| For 802.11n/ac(HT40) Operation in the 5755MHz ~5795 MHz band | | | | | |
|---|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 151 | 5755MHz | 159 | 5795MHz | N/A | N/A |

| For 802.11ac(HT80) Operation in the 5210 MHz band | | | | | |
|--|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 42 | 5210MHz | N/A | N/A | N/A | N/A |

| For 802.11ac(HT80) Operation in the 5290 MHz band | | | | | |
|--|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 58 | 5290MHz | N/A | N/A | N/A | N/A |

| For 802.11ac(HT80) Operation in the 5530MHz ~5610 MHz band | | | | | |
|---|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 106 | 5530MHz | 122 | 5610 | N/A | N/A |

| For 802.11ac(HT80) Operation in the 5775 MHz band | | | | | |
|--|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 155 | 5775MHz | N/A | N/A | N/A | N/A |

6.4 Description of Support Units

The EUT has been tested independently

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

6.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.9×10^{-8} |
| 2 | RF power, conducted | 0.46dB (30MHz-1GHz) |
| | | 0.55dB (1GHz-18GHz) |
| 3 | Radiated Spurious emission test | 4.5dB (30MHz-1GHz) |
| | | 4.8dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.5dB (9kHz to 150kHz) |
| | | 3.1dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 3.8% |
| 7 | DC power voltages | 0.026% |

7 Equipment List

| RF test system | | | | | |
|----------------------------------|---------------|------------------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-01-2019 | 02-28-2020 |
| Spectrum Analyzer | Keysight | N9010A | MY54510339 | 03-01-2019 | 02-28-2020 |
| Signal Generator | Keysight | N5182B | MY53051549 | 03-01-2019 | 02-28-2020 |
| High-pass filter | Sinoscite | FL3CX03WG1 8NM12-0398-002 | --- | 01-09-2019 | 01-08-2020 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-09-2019 | 01-08-2020 |
| DC Power | Keysight | E3642A | MY54426035 | 03-01-2019 | 02-28-2020 |
| PC-1 | Lenovo | R4960d | --- | 03-01-2019 | 02-28-2020 |
| BT&WI-FI Automatic control | R&S | OSP120 | 101374 | 03-01-2019 | 02-28-2020 |
| RF control unit | JS Tonscend | JS0806-2 | 15860006 | 03-01-2019 | 02-28-2020 |
| RF control unit | JS Tonscend | JS0806-1 | 15860004 | 03-01-2019 | 02-28-2020 |
| RF control unit | JS Tonscend | JS0806-4 | 158060007 | 03-01-2019 | 02-28-2020 |
| BT&WI-FI Automatic test software | JS Tonscend | JS1120-2 | --- | 03-01-2019 | 02-28-2020 |
| Temperature/ Humidity Indicator | biaozhi | HM10 | 1804186 | 10-12-2018 | 10-11-2019 |

| Conducted disturbance Test | | | | | |
|---------------------------------|--------------|----------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| Receiver | R&S | ESCI | 100435 | 05-20-2019 | 05-18-2020 |
| Temperature/ Humidity Indicator | Defu | TH128 | / | 06-14-2019 | 06-12-2020 |
| Communication test set | Agilent | E5515C | GB47050 534 | 03-01-2019 | 02-28-2020 |
| Communication test set | R&S | CMW500 | 102898 | 01-18-2019 | 01-17-2020 |
| LISN | R&S | ENV216 | 100098 | 05-08-2019 | 05-06-2020 |
| LISN | schwarzbeck | NNLK8121 | 8121-529 | 05-08-2019 | 05-06-2020 |
| Voltage Probe | R&S | ESH2-Z3 0299.7810.56 | 100042 | 06-13-2017 | 06-11-2020 |
| Current Probe | R&S | EZ-17 816.2063.03 | 100106 | 05-20-2019 | 05-18-2020 |
| ISN | TESEQ | ISN T800 | 30297 | 01-06-2019 | 01-15-2020 |
| Barometer | changchun | DYM3 | 1188 | 06-20-2019 | 06-18-2020 |

| 3M Semi/full-anechoic Chamber | | | | | |
|----------------------------------|------------------|--------------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | --- | 05-24-2019 | 05-22-2020 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-401 | 12-21-2018 | 12-20-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-618 | 07-26-2019 | 07-24-2020 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 08-21-2018 | 08-20-2019 |
| Microwave Preamplifier | Tonscend | EMC051845 SE | 980380 | 01-16-2019 | 01-15-2020 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-1869 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057410 | 06-05-2018 | 06-03-2021 |
| Double ridge horn antenna | A.H.SYSTEMS | SAS-574 | 374 | 06-05-2018 | 06-04-2021 |
| Pre-amplifier | A.H.SYSTEMS | PAP-1840-60 | 6041.6041 | 07-26-2019 | 07-24-2020 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04-25-2018 | 04-25-2021 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 04-28-2019 | 04-26-2020 |
| Receiver | R&S | ESCI | 100435 | 05-20-2019 | 05-18-2020 |
| Receiver | R&S | ESCI7 | 100938-003 | 11-23-2018 | 11-22-2019 |
| Multi device Controller | matur | NCD/070/10711112 | --- | 01-09-2019 | 01-08-2020 |
| Signal Generator | Agilent | E4438C | MY45095744 | 03-01-2019 | 02-28-2020 |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-01-2019 | 02-28-2020 |
| Temperature/Humidity Indicator | Shanghai qixiang | HM10 | 1804298 | 10-12-2018 | 10-11-2019 |
| Communication test set | Agilent | E5515C | GB47050534 | 03-01-2019 | 02-28-2020 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01-09-2019 | 01-08-2020 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01-09-2019 | 01-08-2020 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01-09-2019 | 01-08-2020 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01-09-2019 | 01-08-2020 |
| High-pass filter | Sinoscite | FL3CX03WG18NM12-0398-002 | --- | 01-09-2019 | 01-08-2020 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX01CA09CL12-0395-001 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX01CA08CL12-0393-001 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX02CA04CL12-0396-002 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX02CA03CL12-0394-001 | --- | 01-09-2019 | 01-08-2020 |

| 3M full-anechoic Chamber | | | | | |
|---------------------------------|--------------|-------------------|---------------|------------------------|----------------------------|
| Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) |
| RSE Automatic test software | JS Tonscend | JS36-RSE | 10166 | 06-19-2019 | 06-17-2020 |
| Receiver | Keysight | N9038A | MY57290136 | 03-27-2019 | 03-25-2020 |
| Spectrum Analyzer | Keysight | N9020B | MY57111112 | 03-27-2019 | 03-25-2020 |
| Spectrum Analyzer | Keysight | N9030B | MY57140871 | 03-27-2019 | 03-25-2020 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-075 | 04-25-2018 | 04-23-2021 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04-25-2018 | 04-23-2021 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-1148 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-832 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-829 | 04-25-2018 | 04-23-2021 |
| Communication Antenna | Schwarzbeck | CLSA 0110L | 1014 | 02-14-2019 | 02-13-2020 |
| Biconical antenna | Schwarzbeck | VUBA 9117 | 9117-381 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057407 | 07-10-2018 | 07-08-2021 |
| Preamplifier | EMCI | EMC184055SE | 980596 | 05-22-2019 | 5-20-2020 |
| Communication test set | R&S | CMW500 | 102898 | 01-18-2019 | 01-17-2020 |
| Preamplifier | EMCI | EMC001330 | 980563 | 05-08-2019 | 05-06-2020 |
| Preamplifier | Agilent | 8449B | 3008A02425 | 08-21-2018 | 08-20-2019 |
| Temperature/ Humidity Indicator | biaozhi | GM1360 | EE1186631 | 05-01-2019 | 04-30-2020 |
| Signal Generator | KEYSIGHT | E8257D | MY53401106 | 03-01-2019 | 02-28-2020 |
| Fully Anechoic Chamber | TDK | FAC-3 | --- | 01-17-2018 | 01-15-2021 |
| Filter bank | JS Tonscend | JS0806-F | 188060094 | 04-10-2018 | 04-08-2021 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0002 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0003 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-2.50M | 393495-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | EMC104-NMNM-1000 | SN160710 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-3.00M | 394813-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMNM-1.50M | 381964-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-7.00M | 394815-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | HF160-KMKM-3.00M | 393493-0001 | 01-09-2019 | 01-08-2020 |

8 Radio Technical Requirements Specification

Reference documents for testing:

| No. | Identity | Document Title |
|-----|--|--|
| 1 | FCC Part15E | Subpart C-Intentional Radiators |
| 2 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |
| 3 | KDB789033 D02 General UNII Test Procedures New Rules v01 | Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15 subpart E |

Test Results List:

| Test Requirement | Test method | Test item | Verdict | Note |
|---|------------------|---|---------|-------------|
| Part15E Section 15.407 (a)(1)(2)(4)(h)(1) | KDB789033 D02v01 | Conducted Output Power and transmit power control mechanism | PASS | Appendix A) |
| Part15E Section 15.407 (a)(1)(2) | KDB789033 D02v01 | 26dB Occupied Bandwidth | PASS | Appendix B) |
| Part15E Section 15.407 (a)(1)(2)(5) | KDB789033 D02v01 | Power Spectral Density | PASS | Appendix C) |
| Part15E Section 15.407 (a)(6) | KDB789033 D02v01 | Peak power excursion | PASS | Appendix D) |
| Part15E Section 15.407 (g) | KDB789033 D02v01 | Frequency stability | PASS | Appendix E) |
| Part15C Section 15.203 | ANSI C63.10 | Antenna Requirement | PASS | Appendix F) |
| Part15E Section 15.407 (c) | Section 15.407 | Operation in the absence of information to the transmit | PASS | Appendix G) |
| Part15E Section 15.407 (b)(6) | ANSI C63.10 | AC Power Line Conducted Emission | PASS | Appendix H) |
| Part15E Section 15.407 (b)(6)(7)(8) | KDB789033 D02v01 | Restricted bands around fundamental frequency (Radiated Emission) | PASS | Appendix I) |
| Part15E Section 15.407 (b)(6)(7)(8) | KDB789033 D02v01 | Unwanted Emissions in the Restricted Bands | PASS | Appendix J) |
| Part15E Section 15.407 (b)(1)(2)(3)(5) | KDB789033 D02v01 | Unwanted Emissions that fall Outside of the Restricted Bands | PASS | Appendix K) |

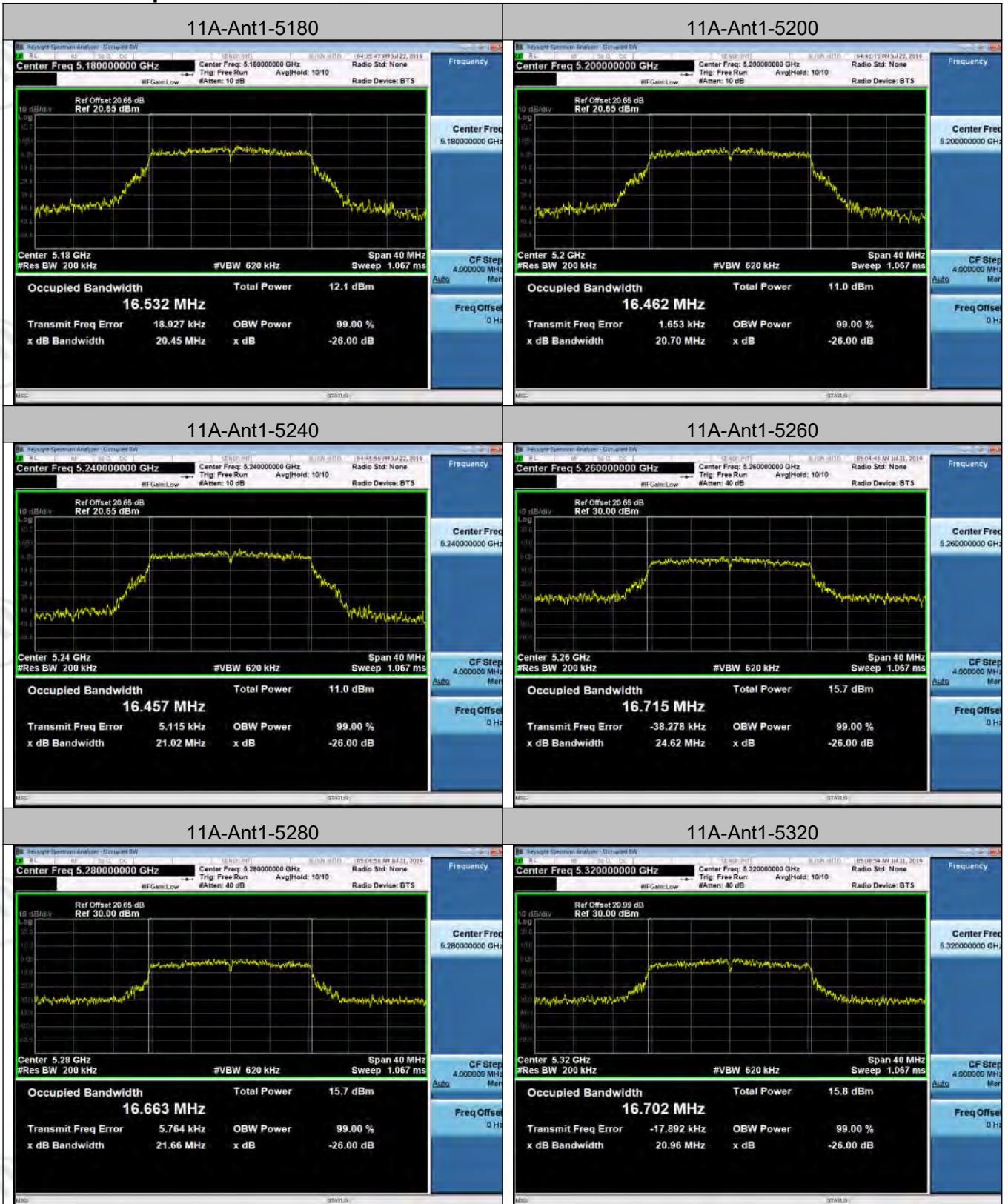
Ant 1:
Appendix A): Emission Bandwidth
Result Table

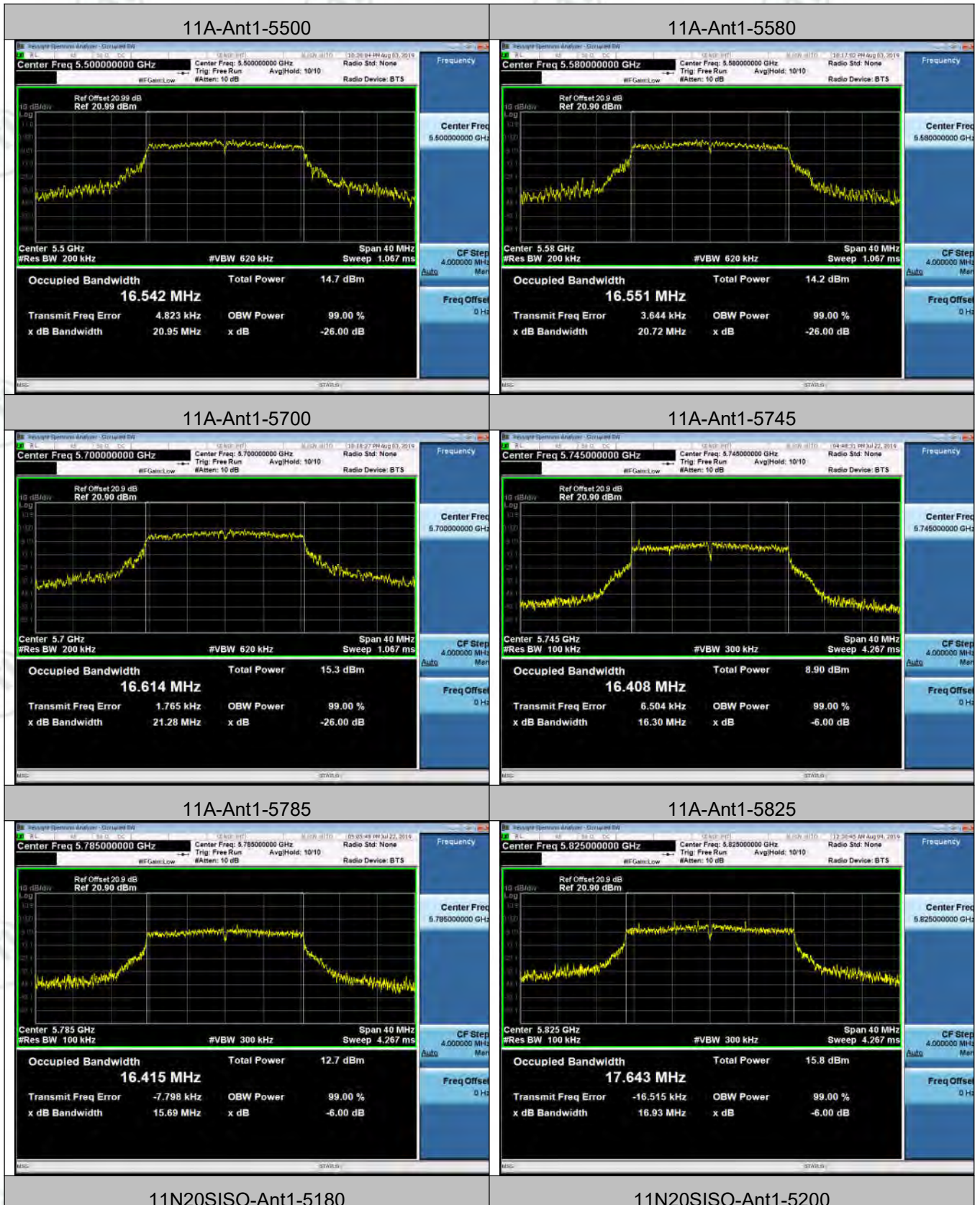
| Test Mode | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
|------------|---------|---------|----------|----------|---------|
| 11A | Ant1 | 5180 | 20.45 | 16.532 | PASS |
| 11A | Ant1 | 5200 | 20.70 | 16.462 | PASS |
| 11A | Ant1 | 5240 | 21.02 | 16.457 | PASS |
| 11A | Ant1 | 5260 | 24.62 | 16.715 | PASS |
| 11A | Ant1 | 5280 | 21.66 | 16.663 | PASS |
| 11A | Ant1 | 5320 | 20.96 | 16.702 | PASS |
| 11A | Ant1 | 5500 | 20.95 | 16.542 | PASS |
| 11A | Ant1 | 5580 | 20.72 | 16.551 | PASS |
| 11A | Ant1 | 5700 | 21.28 | 16.614 | PASS |
| 11A | Ant1 | 5745 | 16.30 | 16.408 | PASS |
| 11A | Ant1 | 5785 | 15.69 | 16.415 | PASS |
| 11A | Ant1 | 5825 | 16.93 | 17.643 | PASS |
| 11N20SISO | Ant1 | 5180 | 21.11 | 17.698 | PASS |
| 11N20SISO | Ant1 | 5200 | 20.55 | 17.724 | PASS |
| 11N20SISO | Ant1 | 5240 | 21.15 | 17.722 | PASS |
| 11N20SISO | Ant1 | 5260 | 20.84 | 17.709 | PASS |
| 11N20SISO | Ant1 | 5280 | 21.04 | 17.659 | PASS |
| 11N20SISO | Ant1 | 5320 | 21.11 | 17.689 | PASS |
| 11N20SISO | Ant1 | 5500 | 20.59 | 17.757 | PASS |
| 11N20SISO | Ant1 | 5580 | 20.72 | 17.719 | PASS |
| 11N20SISO | Ant1 | 5700 | 21.47 | 17.719 | PASS |
| 11N20SISO | Ant1 | 5745 | 17.63 | 17.677 | PASS |
| 11N20SISO | Ant1 | 5785 | 17.54 | 17.611 | PASS |
| 11N20SISO | Ant1 | 5825 | 16.24 | 17.616 | PASS |
| 11AC20SISO | Ant1 | 5180 | 20.51 | 17.687 | PASS |
| 11AC20SISO | Ant1 | 5200 | 20.35 | 17.670 | PASS |
| 11AC20SISO | Ant1 | 5240 | 21.01 | 17.712 | PASS |

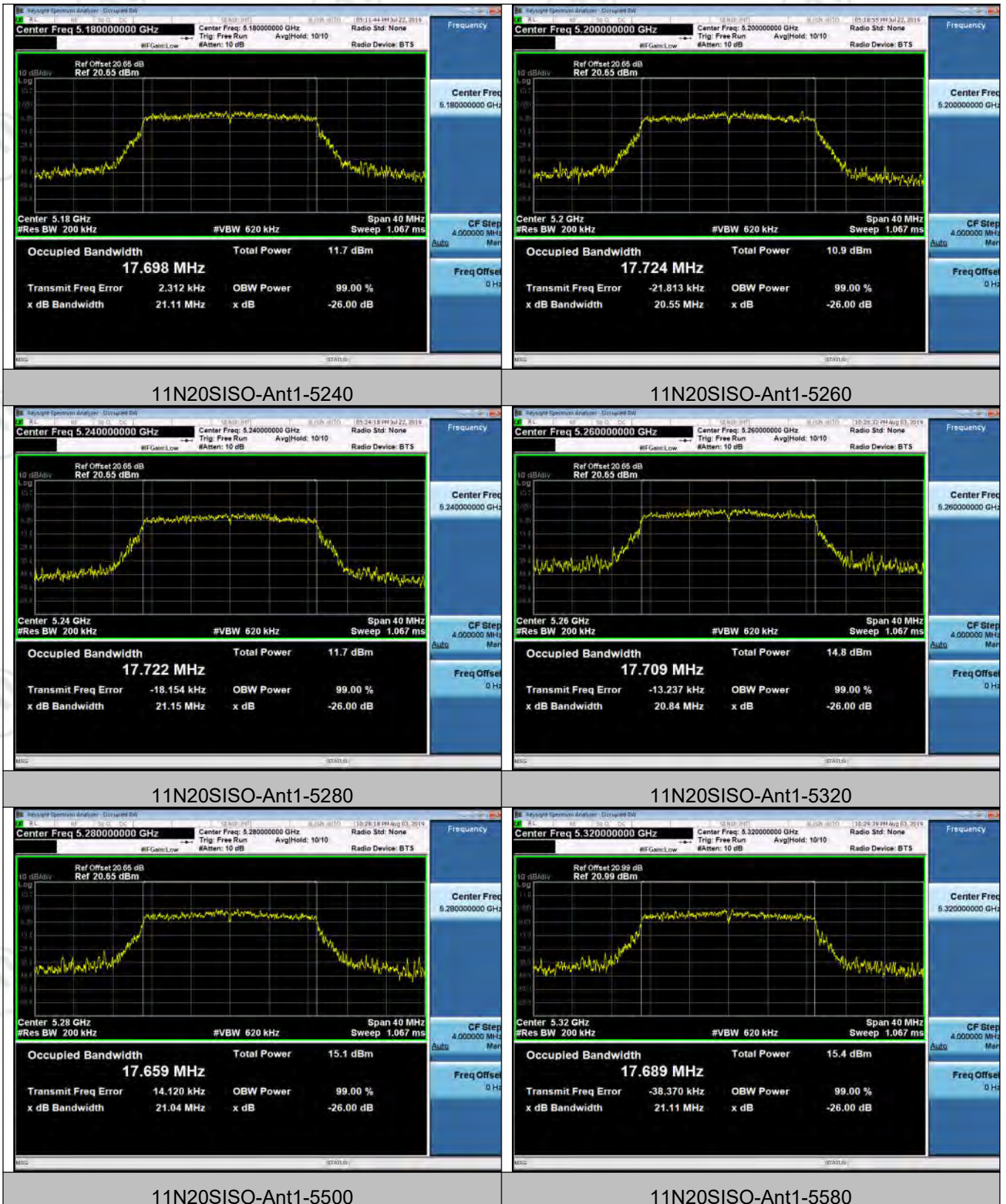
| | | | | | |
|------------|------|------|-------|--------|------|
| 11AC20SISO | Ant1 | 5260 | 20.97 | 17.719 | PASS |
| 11AC20SISO | Ant1 | 5280 | 21.19 | 17.668 | PASS |
| 11AC20SISO | Ant1 | 5320 | 20.76 | 17.680 | PASS |
| 11AC20SISO | Ant1 | 5500 | 20.68 | 17.760 | PASS |
| 11AC20SISO | Ant1 | 5580 | 20.86 | 17.668 | PASS |
| 11AC20SISO | Ant1 | 5700 | 21.27 | 17.679 | PASS |
| 11AC20SISO | Ant1 | 5745 | 17.60 | 17.664 | PASS |
| 11AC20SISO | Ant1 | 5785 | 17.06 | 17.667 | PASS |
| 11AC20SISO | Ant1 | 5825 | 17.56 | 17.616 | PASS |
| 11N40SISO | Ant1 | 5190 | 38.55 | 36.163 | PASS |
| 11N40SISO | Ant1 | 5230 | 39.32 | 36.150 | PASS |
| 11N40SISO | Ant1 | 5270 | 39.41 | 36.172 | PASS |
| 11N40SISO | Ant1 | 5310 | 38.85 | 36.184 | PASS |
| 11N40SISO | Ant1 | 5510 | 39.18 | 36.082 | PASS |
| 11N40SISO | Ant1 | 5550 | 38.76 | 36.195 | PASS |
| 11N40SISO | Ant1 | 5670 | 38.71 | 36.182 | PASS |
| 11N40SISO | Ant1 | 5755 | 35.22 | 36.155 | PASS |
| 11N40SISO | Ant1 | 5795 | 36.31 | 36.162 | PASS |
| 11AC40SISO | Ant1 | 5190 | 38.78 | 36.214 | PASS |
| 11AC40SISO | Ant1 | 5230 | 39.38 | 36.104 | PASS |
| 11AC40SISO | Ant1 | 5270 | 39.29 | 36.205 | PASS |
| 11AC40SISO | Ant1 | 5310 | 38.77 | 36.096 | PASS |
| 11AC40SISO | Ant1 | 5510 | 38.47 | 36.001 | PASS |
| 11AC40SISO | Ant1 | 5550 | 39.21 | 36.149 | PASS |
| 11AC40SISO | Ant1 | 5670 | 38.92 | 36.117 | PASS |
| 11AC40SISO | Ant1 | 5755 | 36.06 | 36.104 | PASS |
| 11AC40SISO | Ant1 | 5795 | 35.67 | 36.146 | PASS |

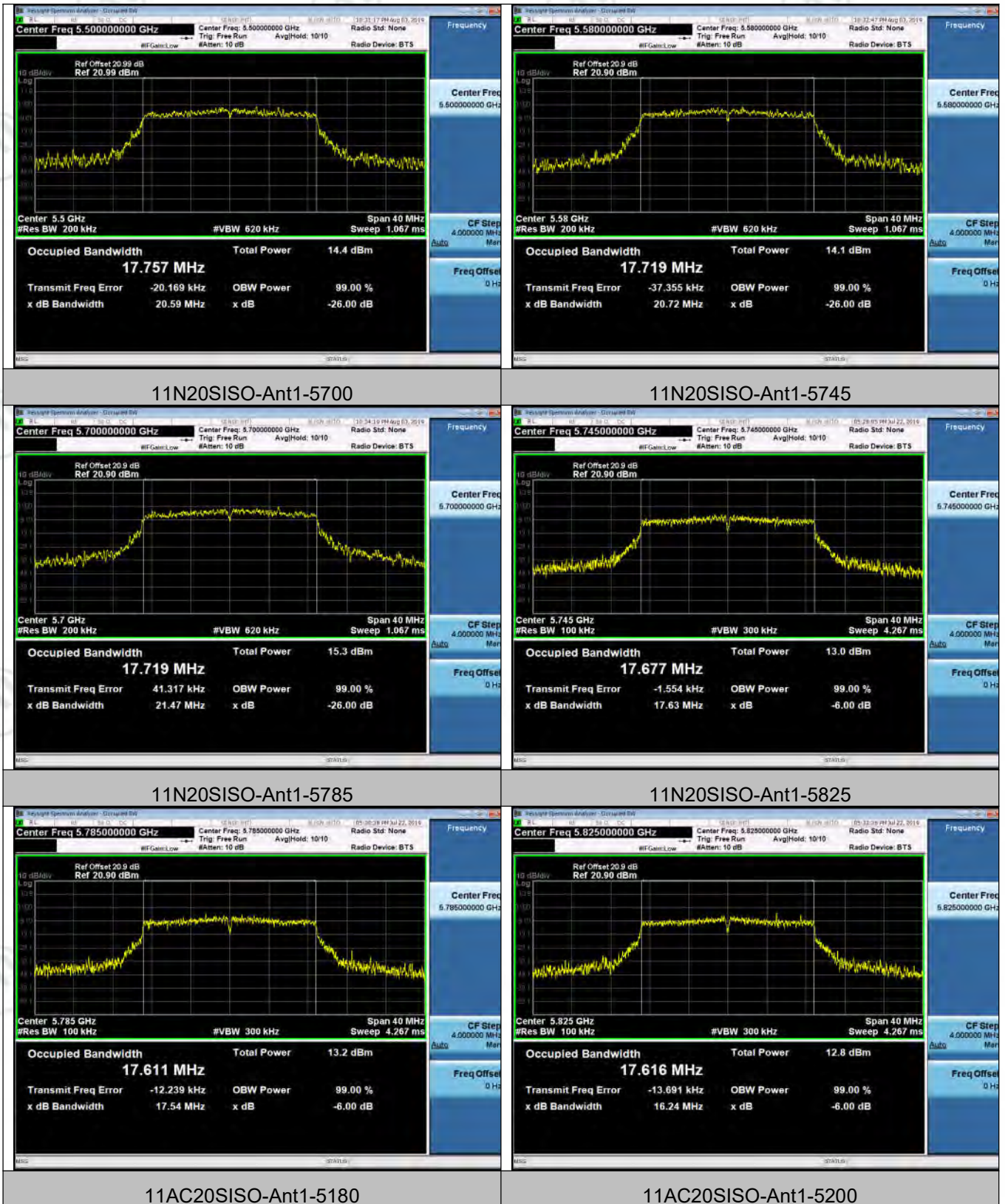
| Test Mode | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
|------------|---------|---------|----------|----------|---------|
| 11AC80SISO | Ant1 | 5210 | 80.13 | 75.445 | PASS |
| 11AC80SISO | Ant1 | 5290 | 80.11 | 75.409 | PASS |
| 11AC80SISO | Ant1 | 5530 | 80.23 | 75.522 | PASS |
| 11AC80SISO | Ant1 | 5775 | 73.85 | 75.624 | PASS |

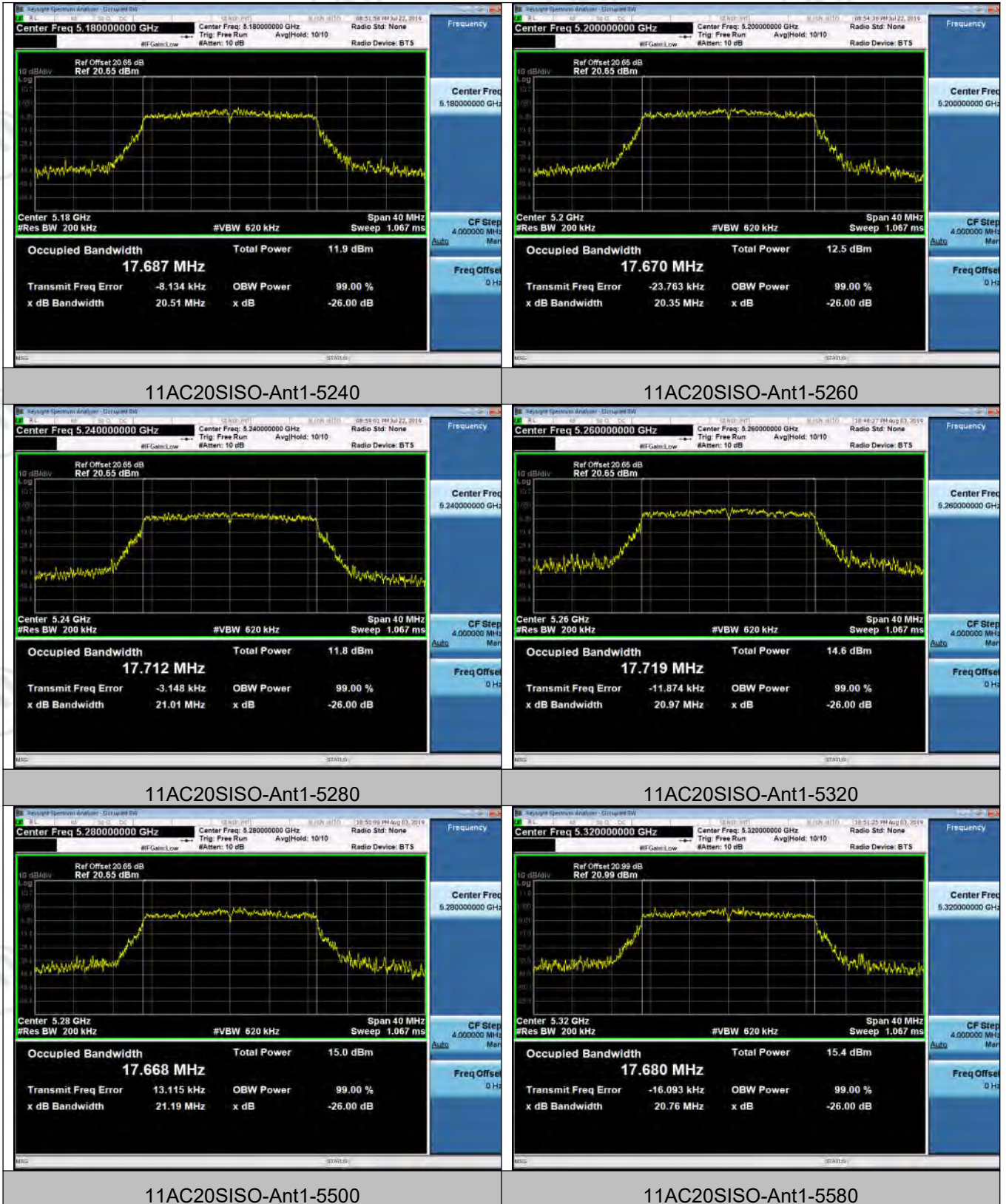
Test Graph

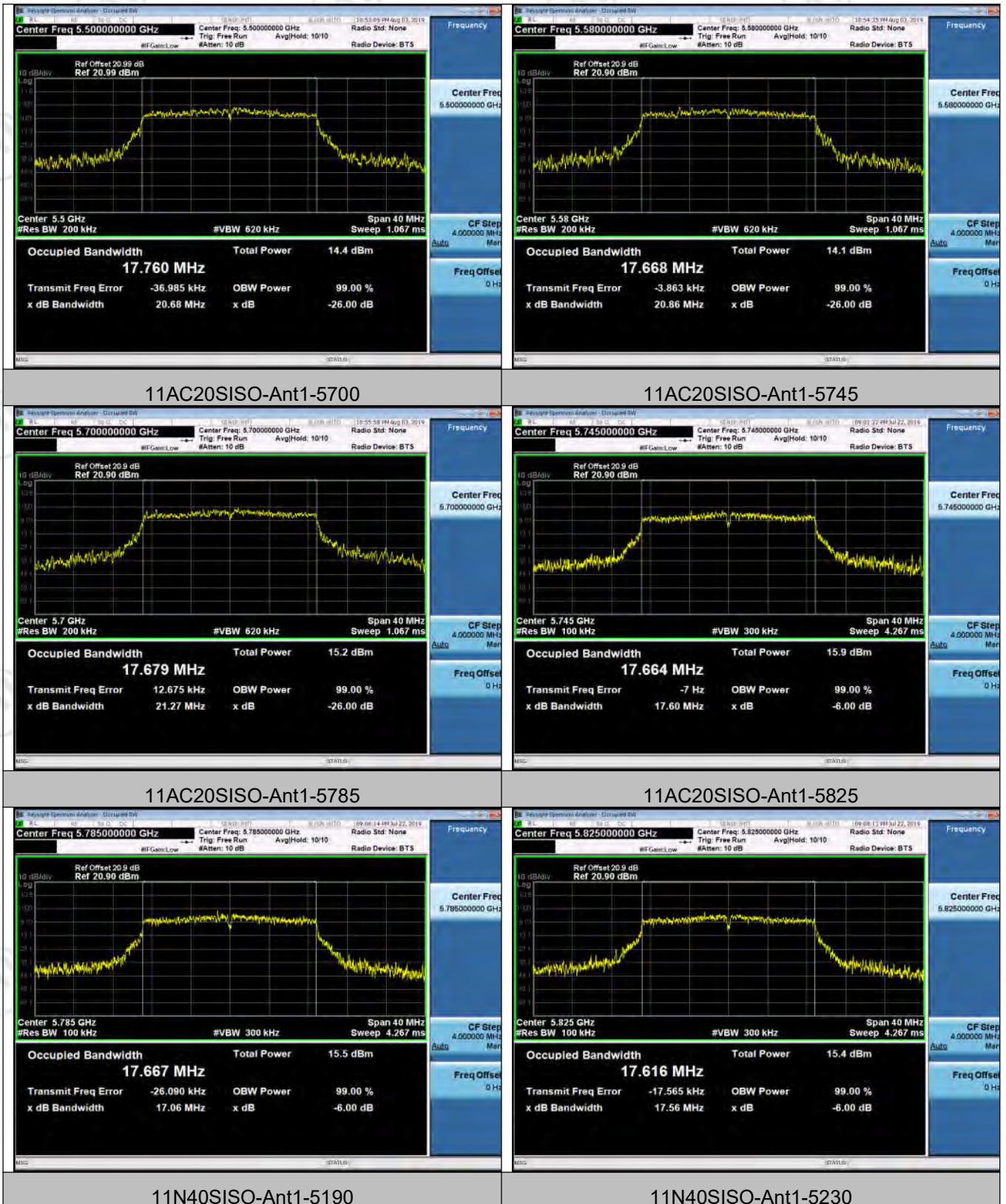


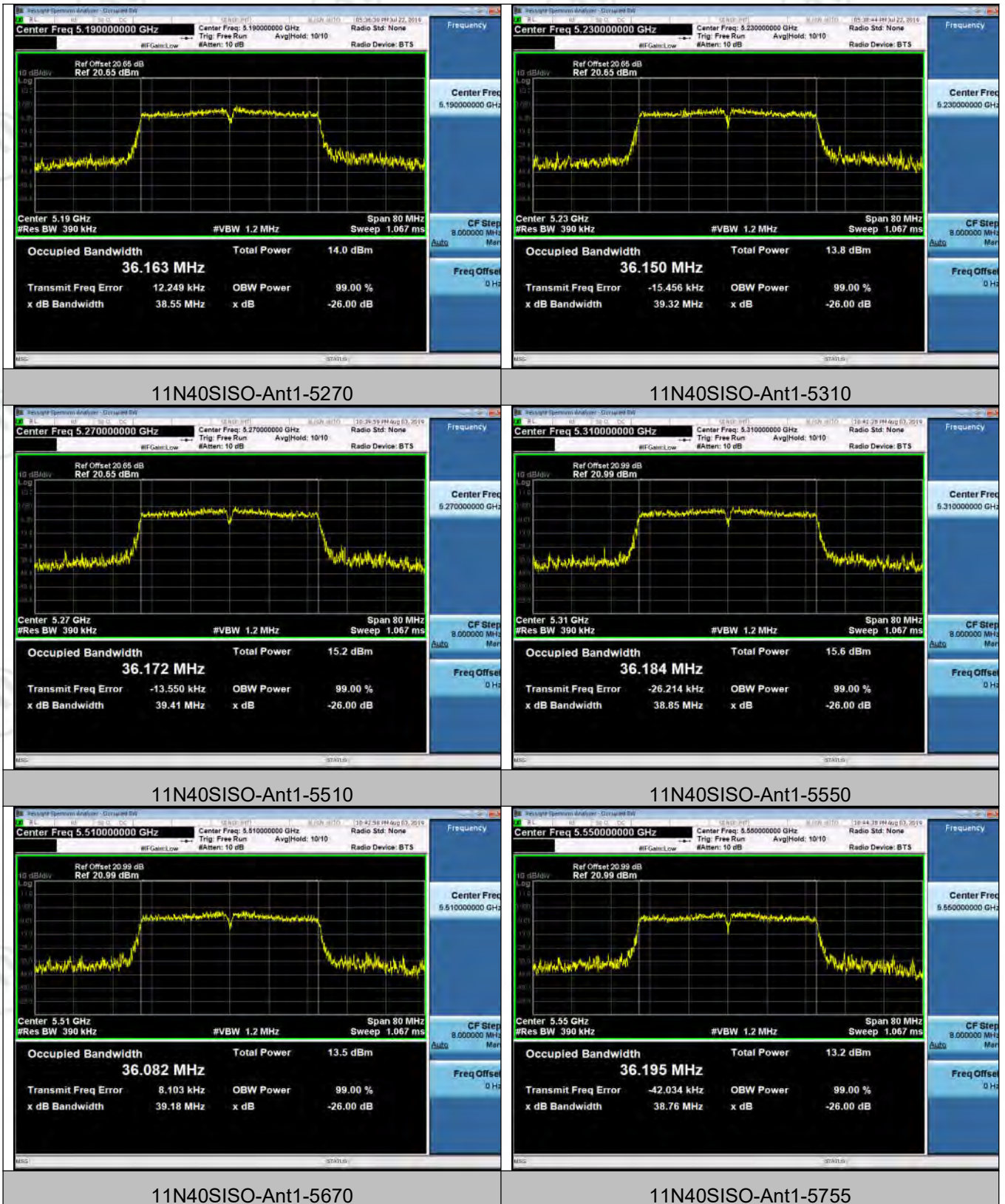


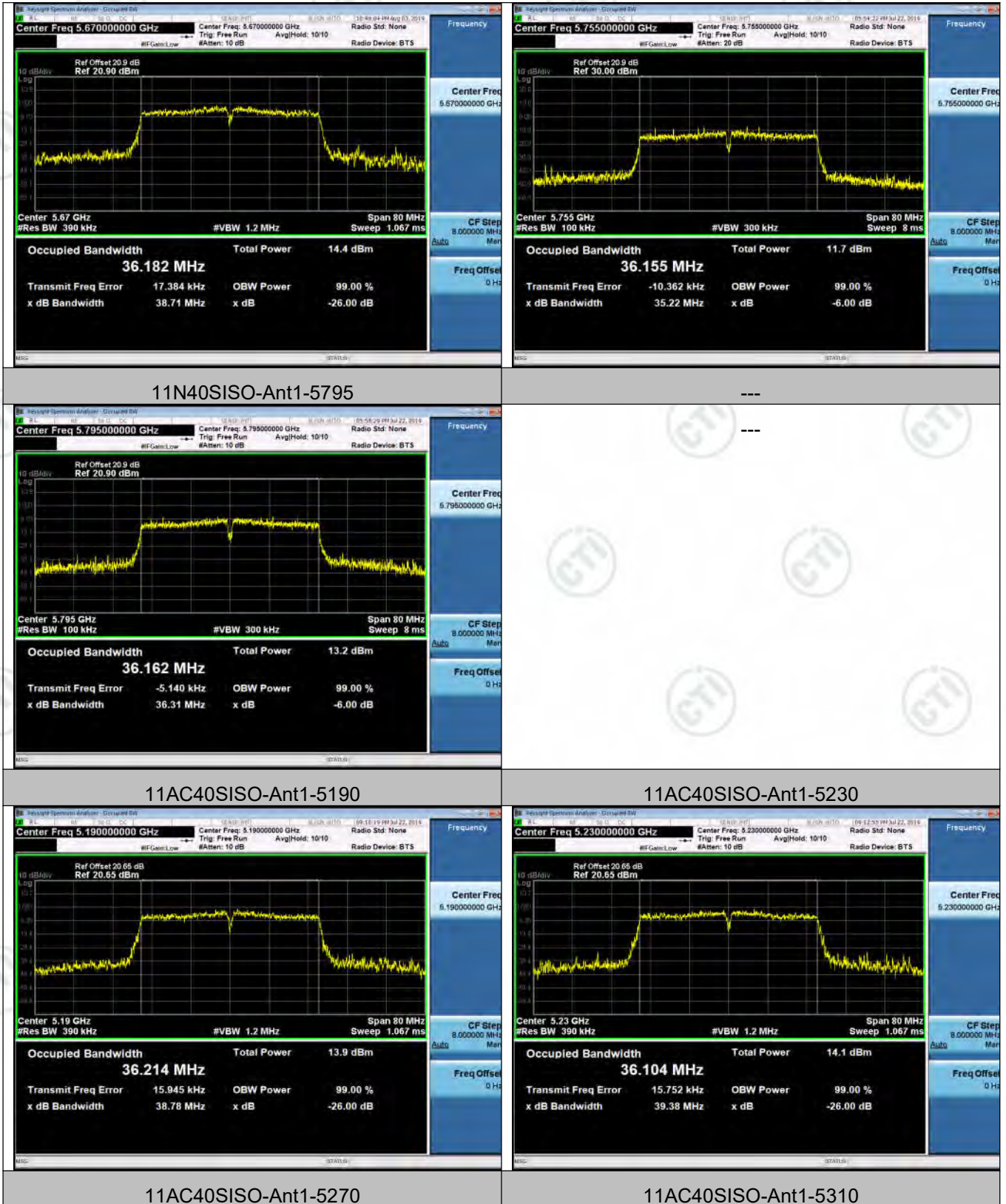


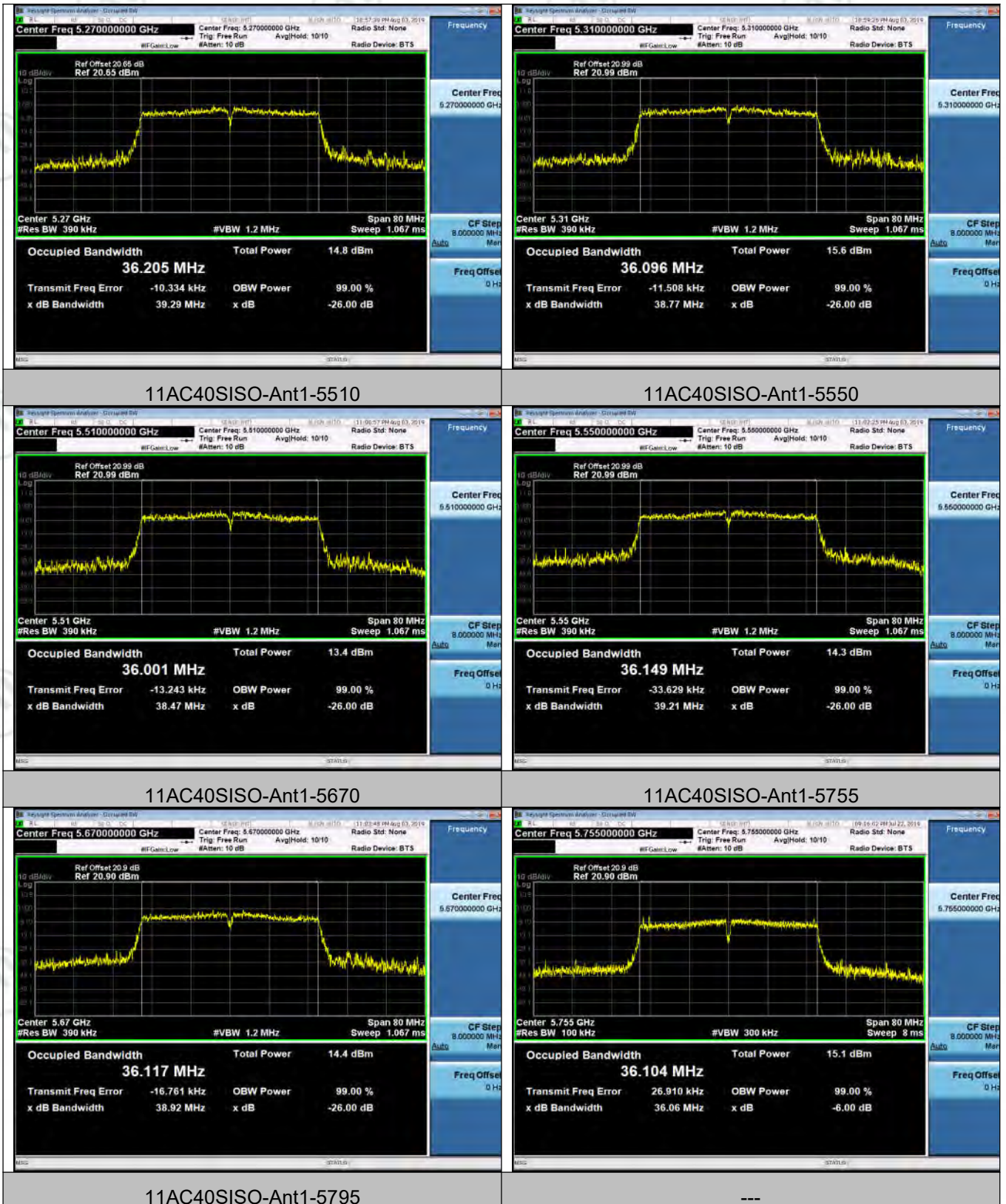


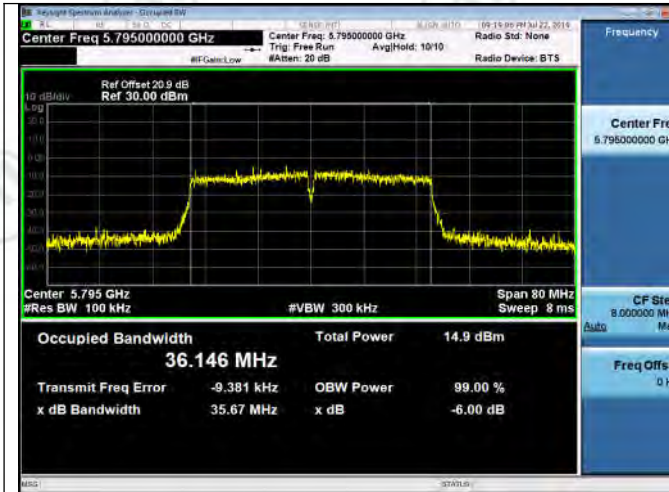




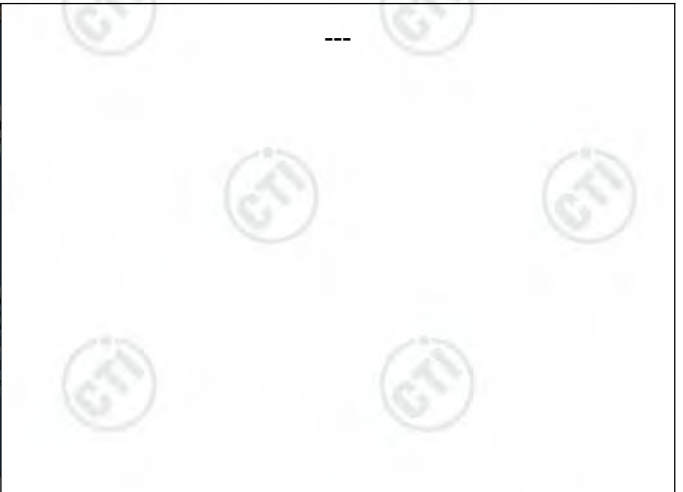




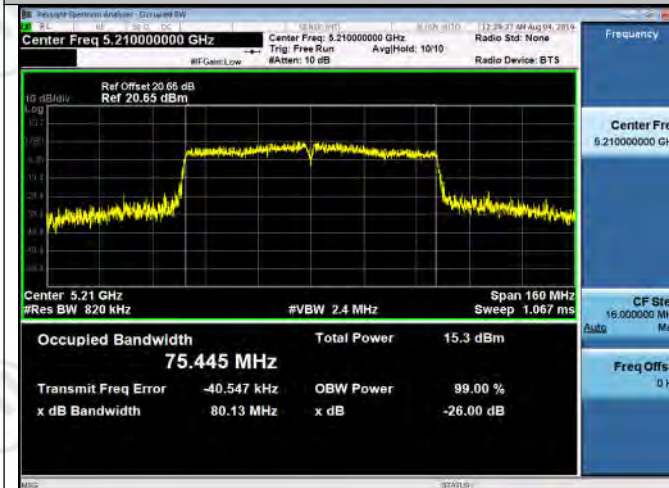




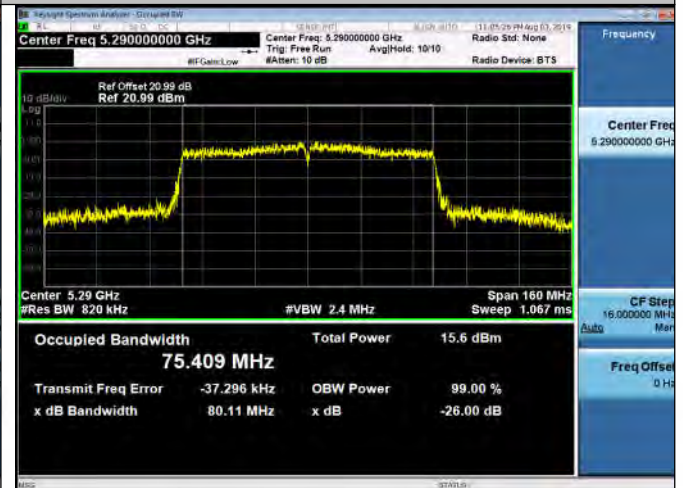
11AC80SISO-Ant1-5210



11AC80SISO-Ant1-5290



11AC80SISO-Ant1-5530



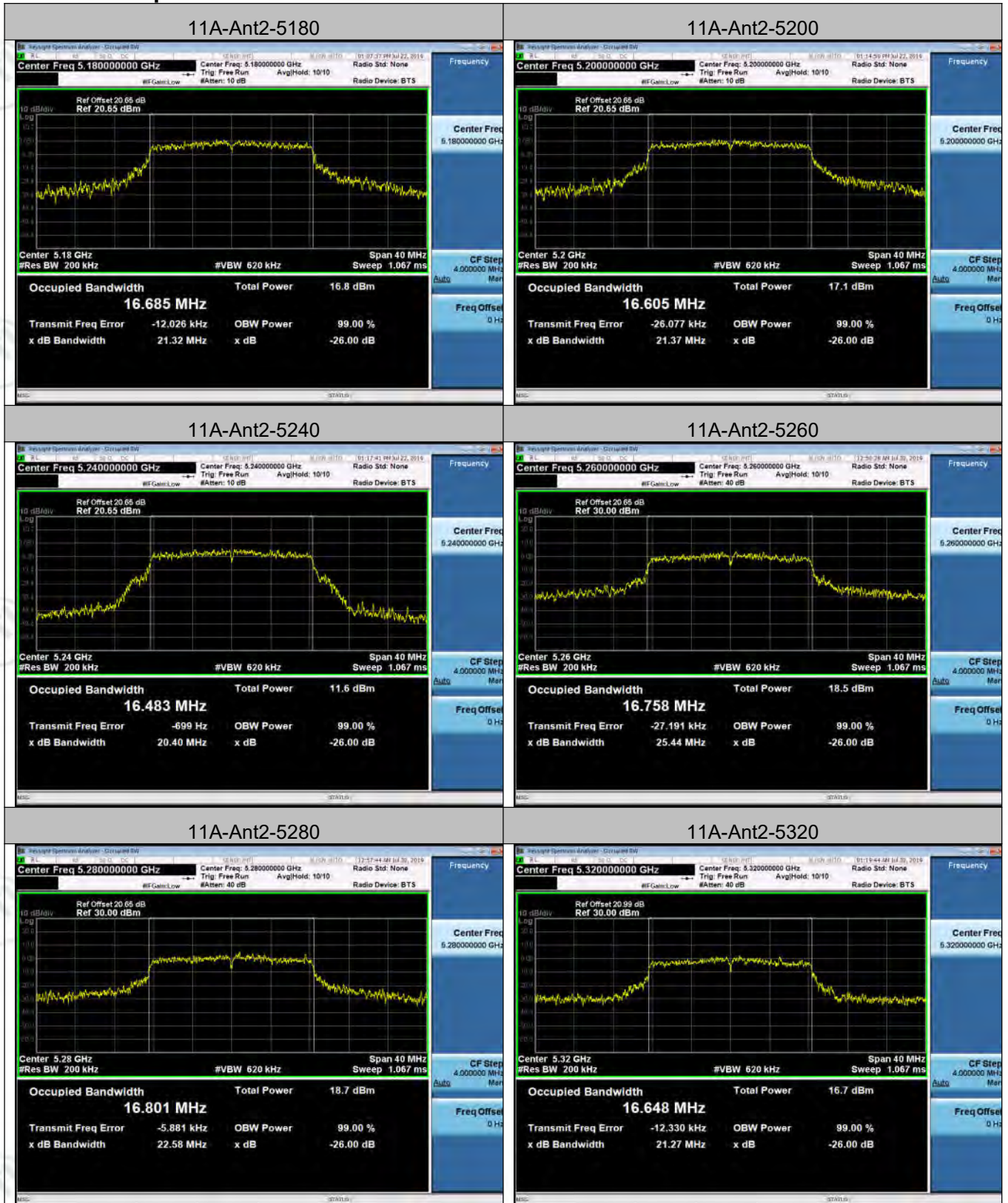
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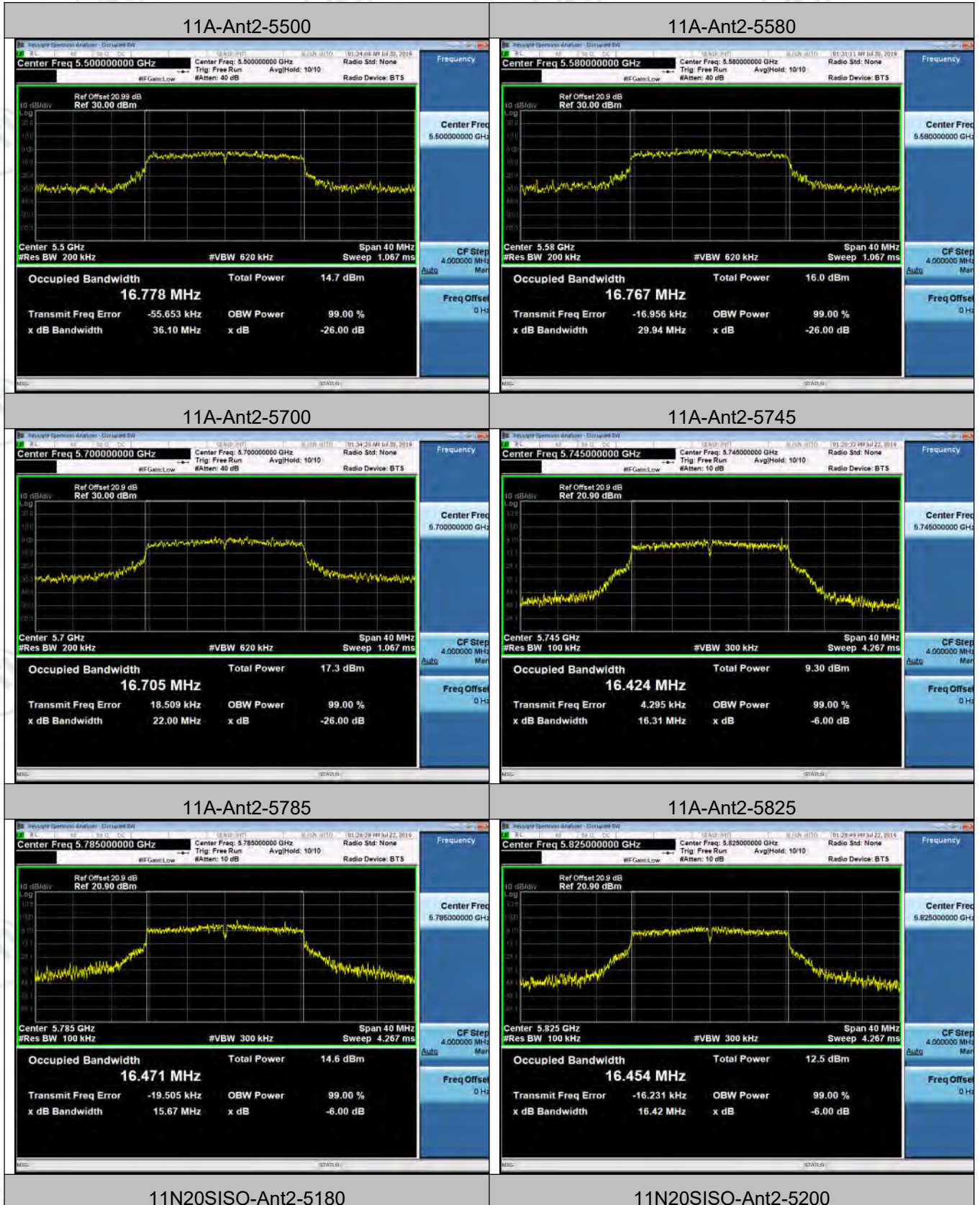
Ant 2:

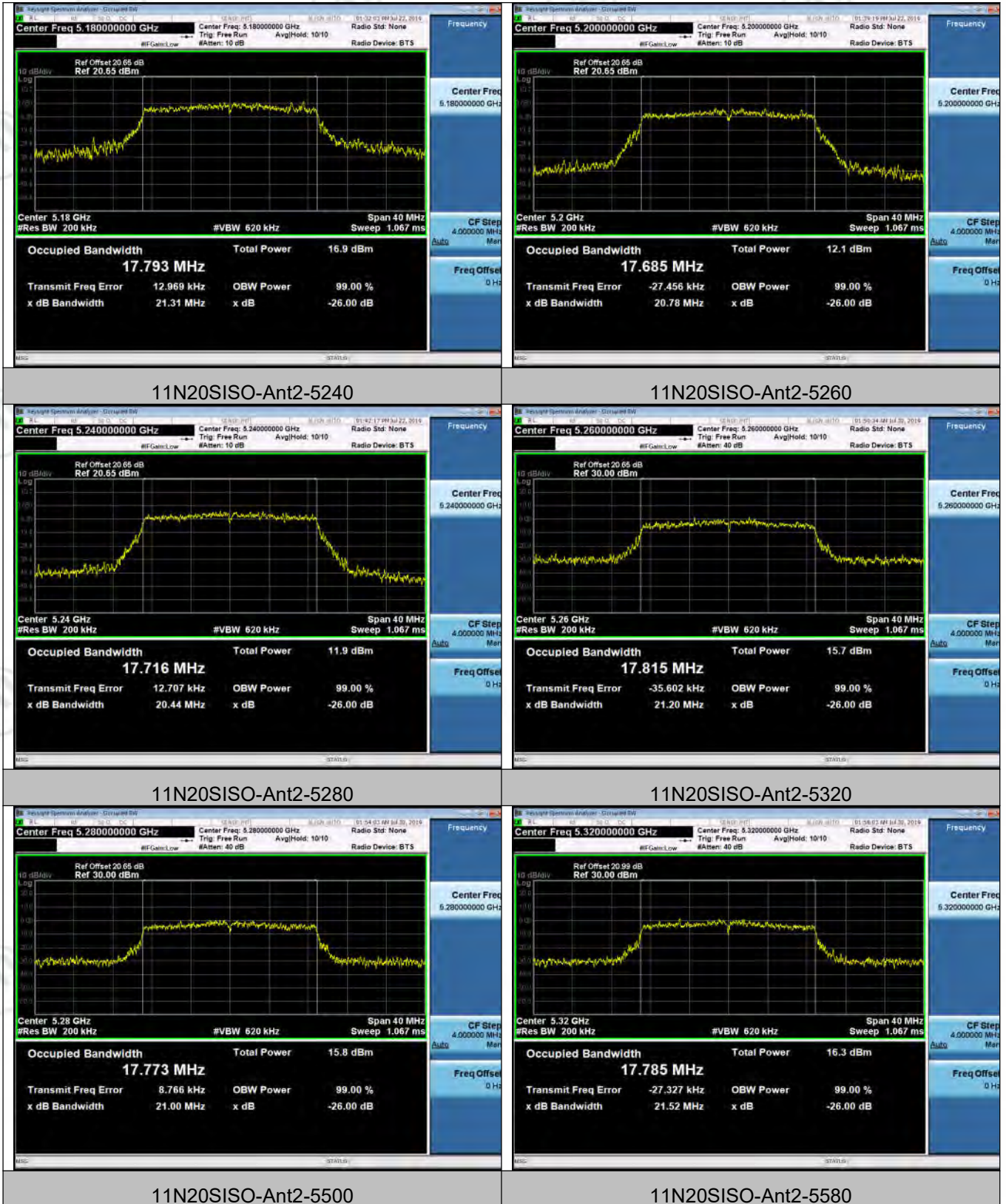
| Test Mode | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
|------------|---------|---------|----------|----------|---------|
| 11A | Ant2 | 5180 | 21.32 | 16.685 | PASS |
| 11A | Ant2 | 5200 | 21.37 | 16.605 | PASS |
| 11A | Ant2 | 5240 | 20.40 | 16.483 | PASS |
| 11A | Ant2 | 5260 | 25.44 | 16.758 | PASS |
| 11A | Ant2 | 5280 | 22.58 | 16.801 | PASS |
| 11A | Ant2 | 5320 | 21.27 | 16.648 | PASS |
| 11A | Ant2 | 5500 | 36.10 | 16.778 | PASS |
| 11A | Ant2 | 5580 | 29.94 | 16.767 | PASS |
| 11A | Ant2 | 5700 | 22.00 | 16.705 | PASS |
| 11A | Ant2 | 5745 | 16.31 | 16.424 | PASS |
| 11A | Ant2 | 5785 | 15.67 | 16.471 | PASS |
| 11A | Ant2 | 5825 | 16.42 | 16.454 | PASS |
| 11N20SISO | Ant2 | 5180 | 21.31 | 17.793 | PASS |
| 11N20SISO | Ant2 | 5200 | 20.78 | 17.685 | PASS |
| 11N20SISO | Ant2 | 5240 | 20.44 | 17.716 | PASS |
| 11N20SISO | Ant2 | 5260 | 21.20 | 17.815 | PASS |
| 11N20SISO | Ant2 | 5280 | 21.00 | 17.773 | PASS |
| 11N20SISO | Ant2 | 5320 | 21.52 | 17.785 | PASS |
| 11N20SISO | Ant2 | 5500 | 21.61 | 17.860 | PASS |
| 11N20SISO | Ant2 | 5580 | 21.08 | 17.715 | PASS |
| 11N20SISO | Ant2 | 5700 | 25.18 | 17.887 | PASS |
| 11N20SISO | Ant2 | 5745 | 17.17 | 17.674 | PASS |
| 11N20SISO | Ant2 | 5785 | 16.89 | 17.705 | PASS |
| 11N20SISO | Ant2 | 5825 | 15.67 | 17.653 | PASS |
| 11AC20SISO | Ant2 | 5180 | 20.58 | 17.714 | PASS |
| 11AC20SISO | Ant2 | 5200 | 20.82 | 17.684 | PASS |
| 11AC20SISO | Ant2 | 5240 | 20.82 | 17.691 | PASS |
| 11AC20SISO | Ant2 | 5260 | 21.89 | 17.771 | PASS |
| 11AC20SISO | Ant2 | 5280 | 21.03 | 17.709 | PASS |
| 11AC20SISO | Ant2 | 5320 | 21.19 | 17.766 | PASS |

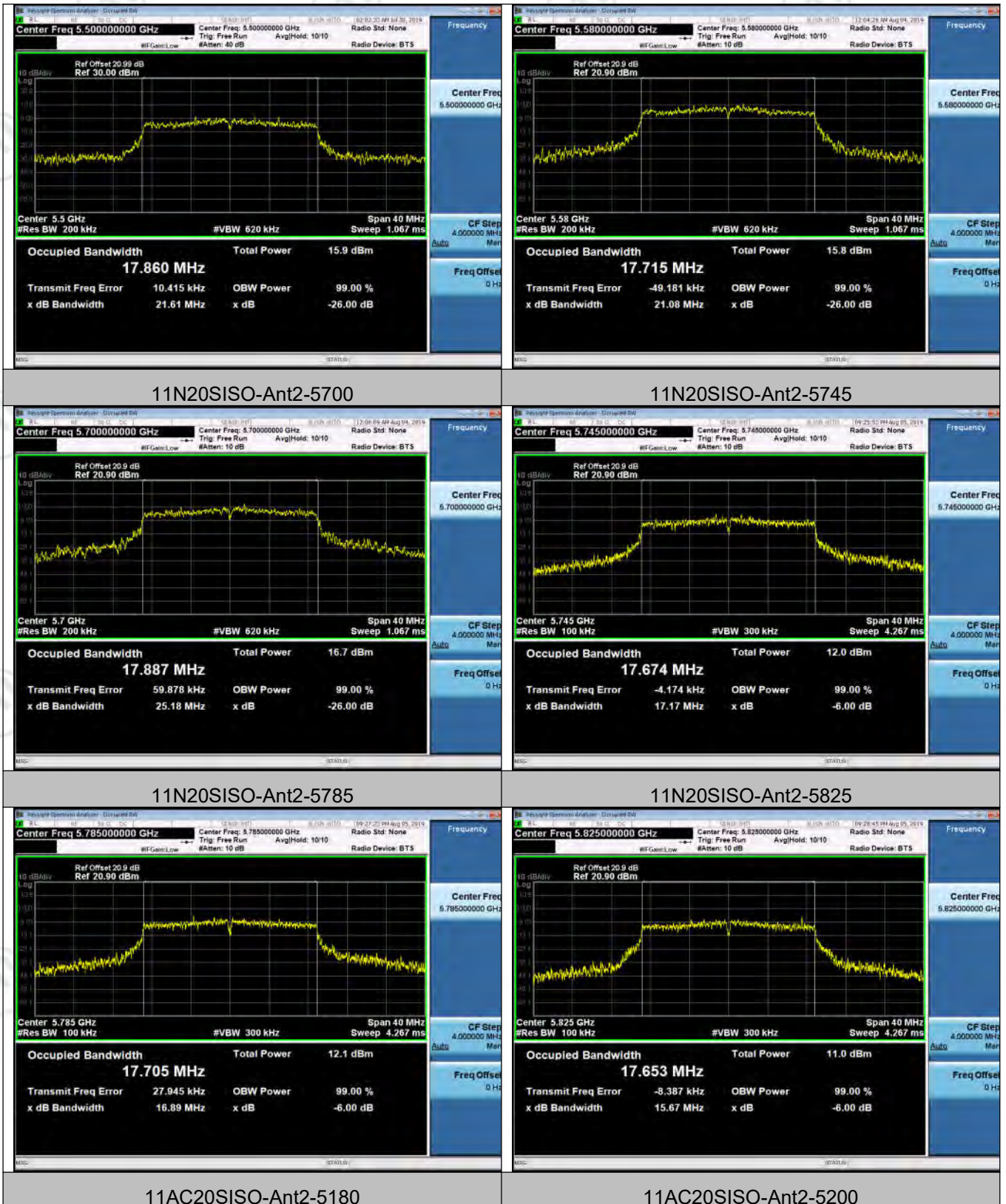
| 11AC20SISO | Ant2 | 5500 | 21.99 | 17.782 | PASS |
|------------|---------|---------|----------|----------|---------|
| 11AC20SISO | Ant2 | 5580 | 21.54 | 17.766 | PASS |
| 11AC20SISO | Ant2 | 5700 | 24.24 | 17.862 | PASS |
| 11AC20SISO | Ant2 | 5745 | 17.54 | 17.728 | PASS |
| 11AC20SISO | Ant2 | 5785 | 16.26 | 17.702 | PASS |
| 11AC20SISO | Ant2 | 5825 | 17.57 | 17.694 | PASS |
| 11N40SISO | Ant2 | 5190 | 39.16 | 36.184 | PASS |
| 11N40SISO | Ant2 | 5230 | 38.90 | 36.187 | PASS |
| 11N40SISO | Ant2 | 5270 | 39.40 | 36.156 | PASS |
| 11N40SISO | Ant2 | 5310 | 39.17 | 36.177 | PASS |
| 11N40SISO | Ant2 | 5510 | 38.93 | 36.103 | PASS |
| 11N40SISO | Ant2 | 5550 | 38.93 | 36.250 | PASS |
| 11N40SISO | Ant2 | 5670 | 42.06 | 36.276 | PASS |
| 11N40SISO | Ant2 | 5755 | 36.33 | 36.162 | PASS |
| 11N40SISO | Ant2 | 5795 | 35.80 | 36.178 | PASS |
| 11AC40SISO | Ant2 | 5190 | 47.18 | 36.186 | PASS |
| 11AC40SISO | Ant2 | 5230 | 39.33 | 36.144 | PASS |
| 11AC40SISO | Ant2 | 5270 | 40.28 | 36.165 | PASS |
| 11AC40SISO | Ant2 | 5310 | 39.25 | 36.100 | PASS |
| 11AC40SISO | Ant2 | 5510 | 39.17 | 36.108 | PASS |
| 11AC40SISO | Ant2 | 5550 | 40.05 | 36.130 | PASS |
| 11AC40SISO | Ant2 | 5670 | 39.50 | 36.207 | PASS |
| 11AC40SISO | Ant2 | 5755 | 35.80 | 36.237 | PASS |
| 11AC40SISO | Ant2 | 5795 | 35.08 | 36.239 | PASS |
| Test Mode | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
| 11AC80SISO | Ant2 | 5210 | 80.59 | 75.397 | PASS |
| 11AC80SISO | Ant2 | 5290 | 80.16 | 75.513 | PASS |
| 11AC80SISO | Ant2 | 5530 | 79.75 | 75.479 | PASS |
| 11AC80SISO | Ant2 | 5775 | 75.34 | 75.824 | PASS |

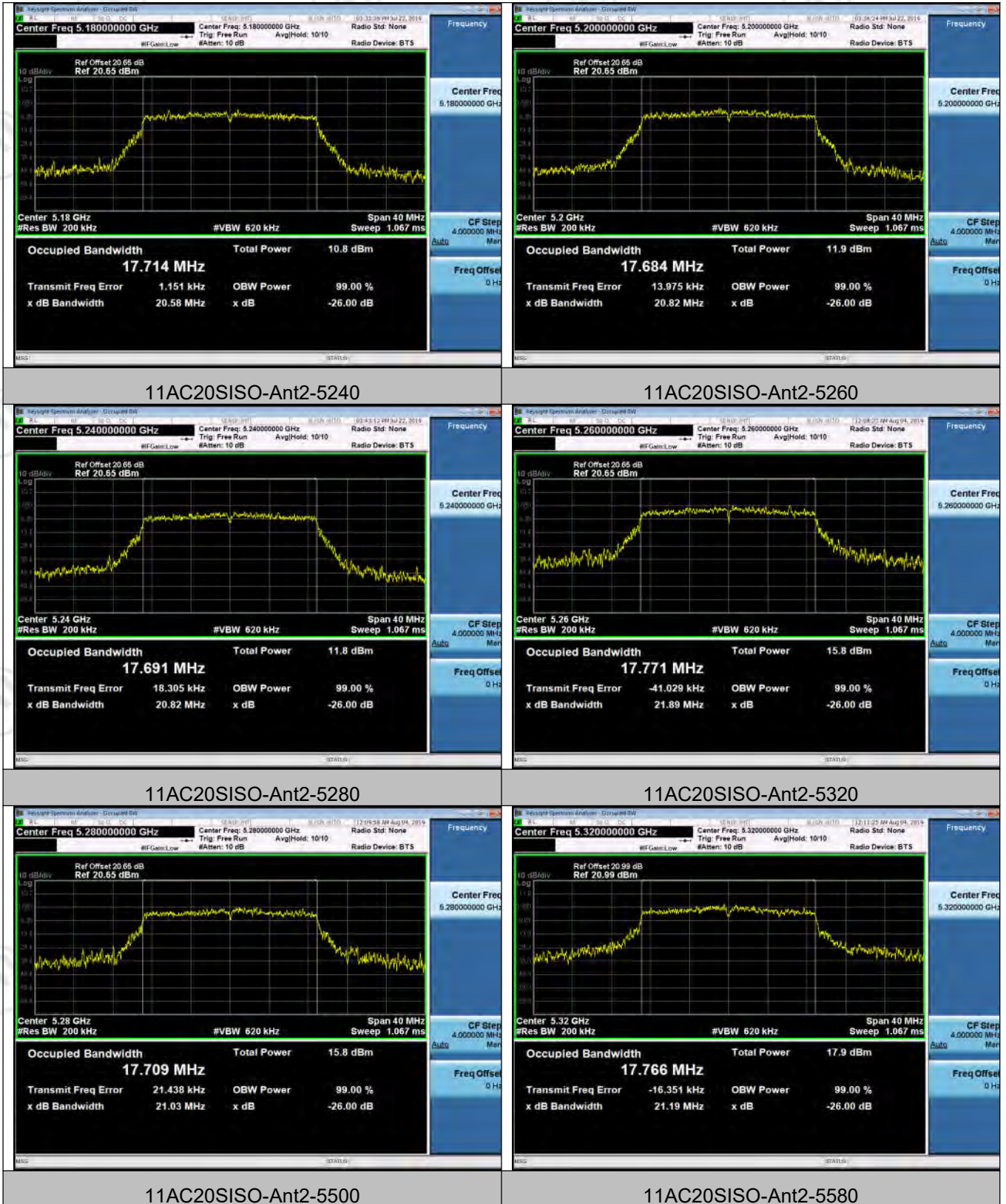
Test Graph

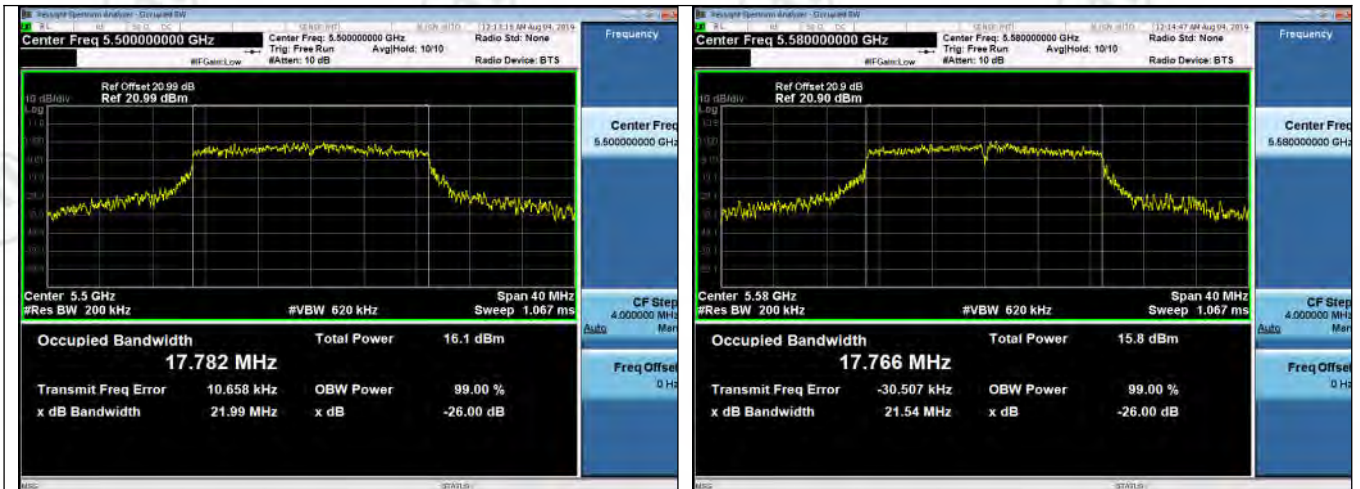






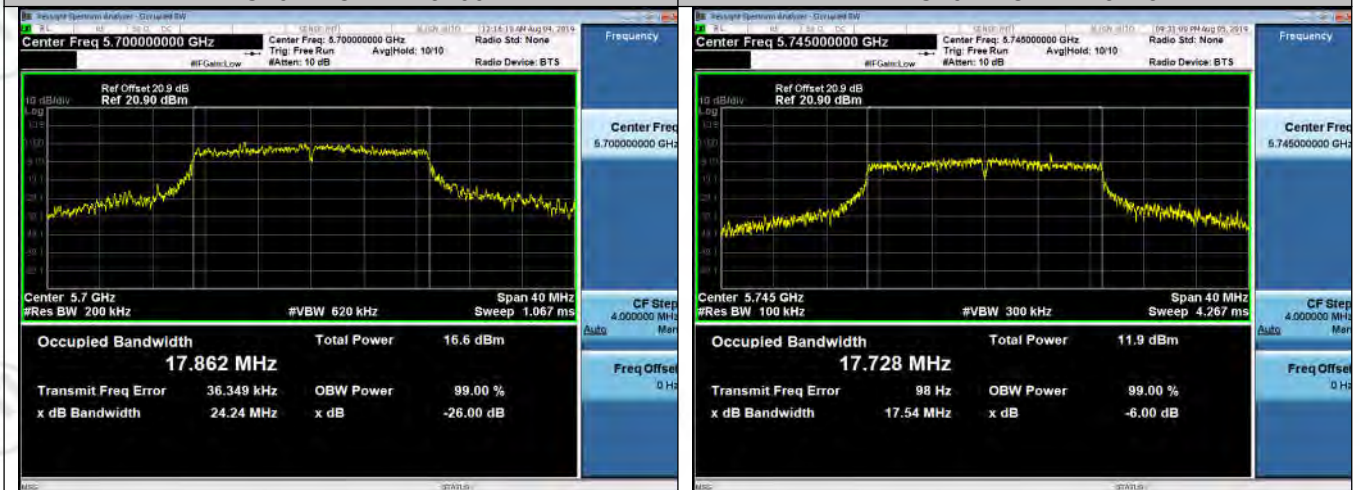






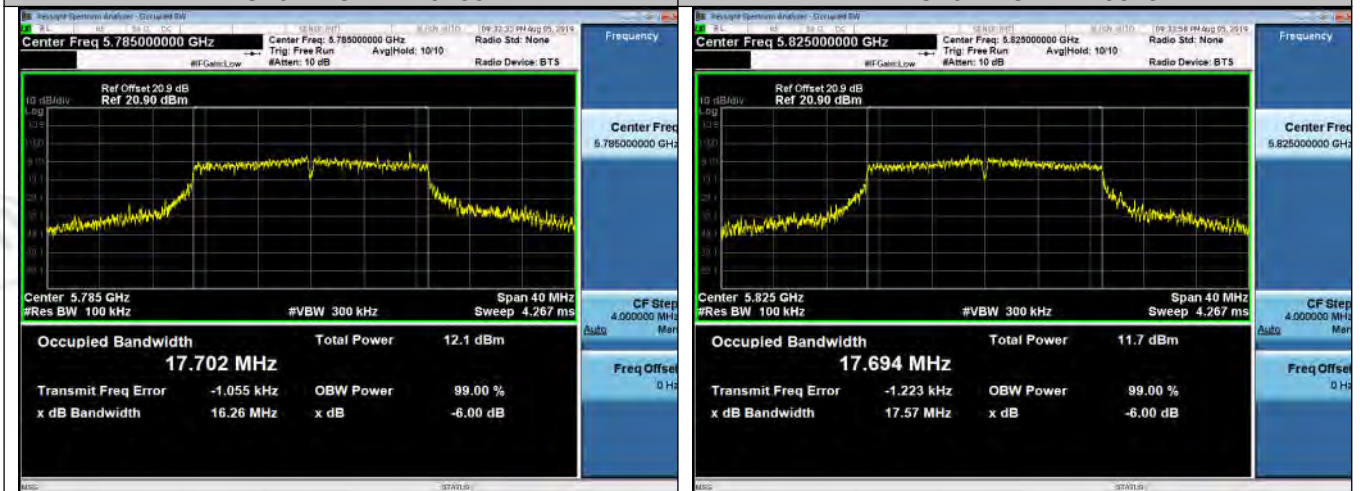
11AC20SISO-Ant2-5700

11AC20SISO-Ant2-5745



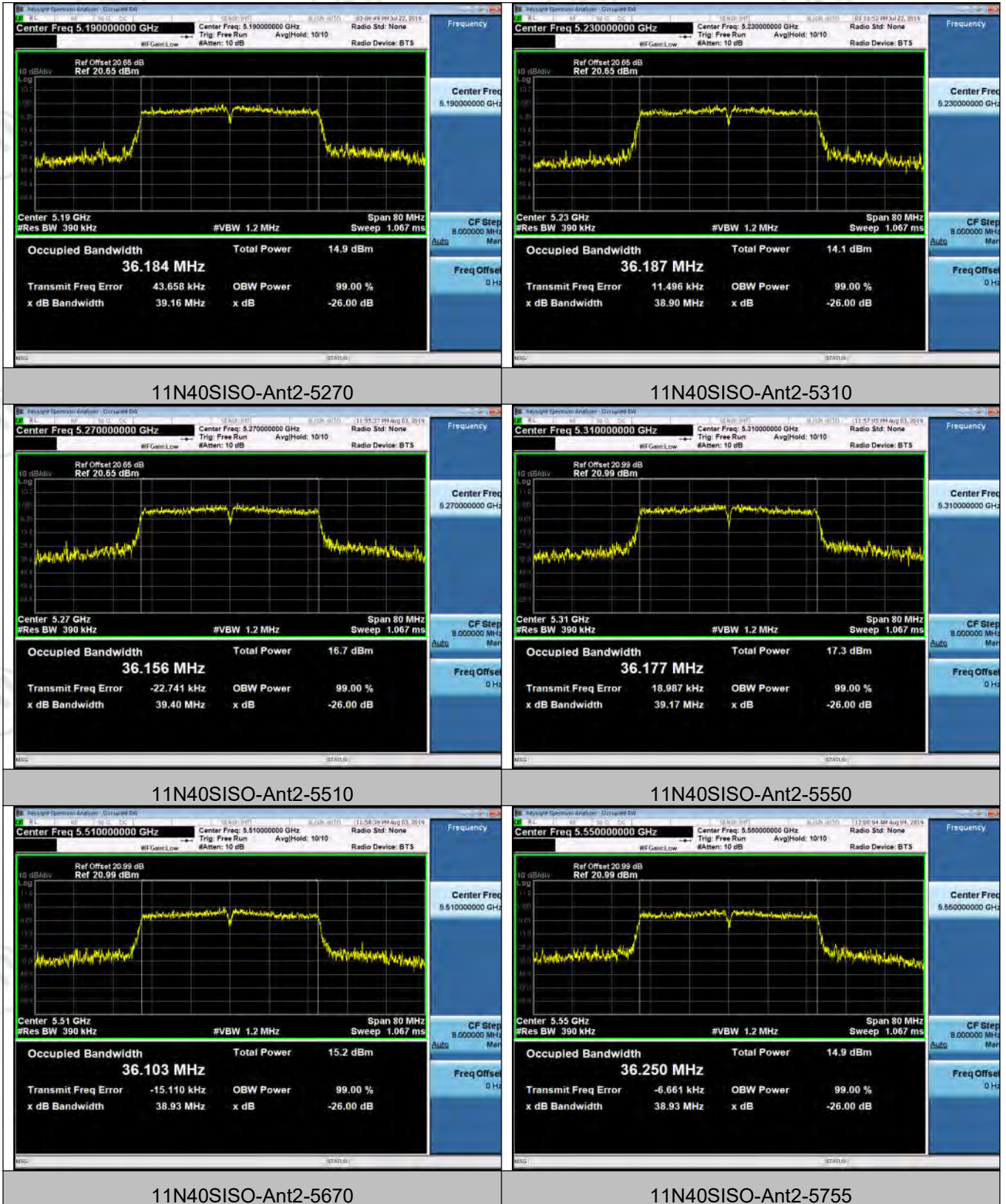
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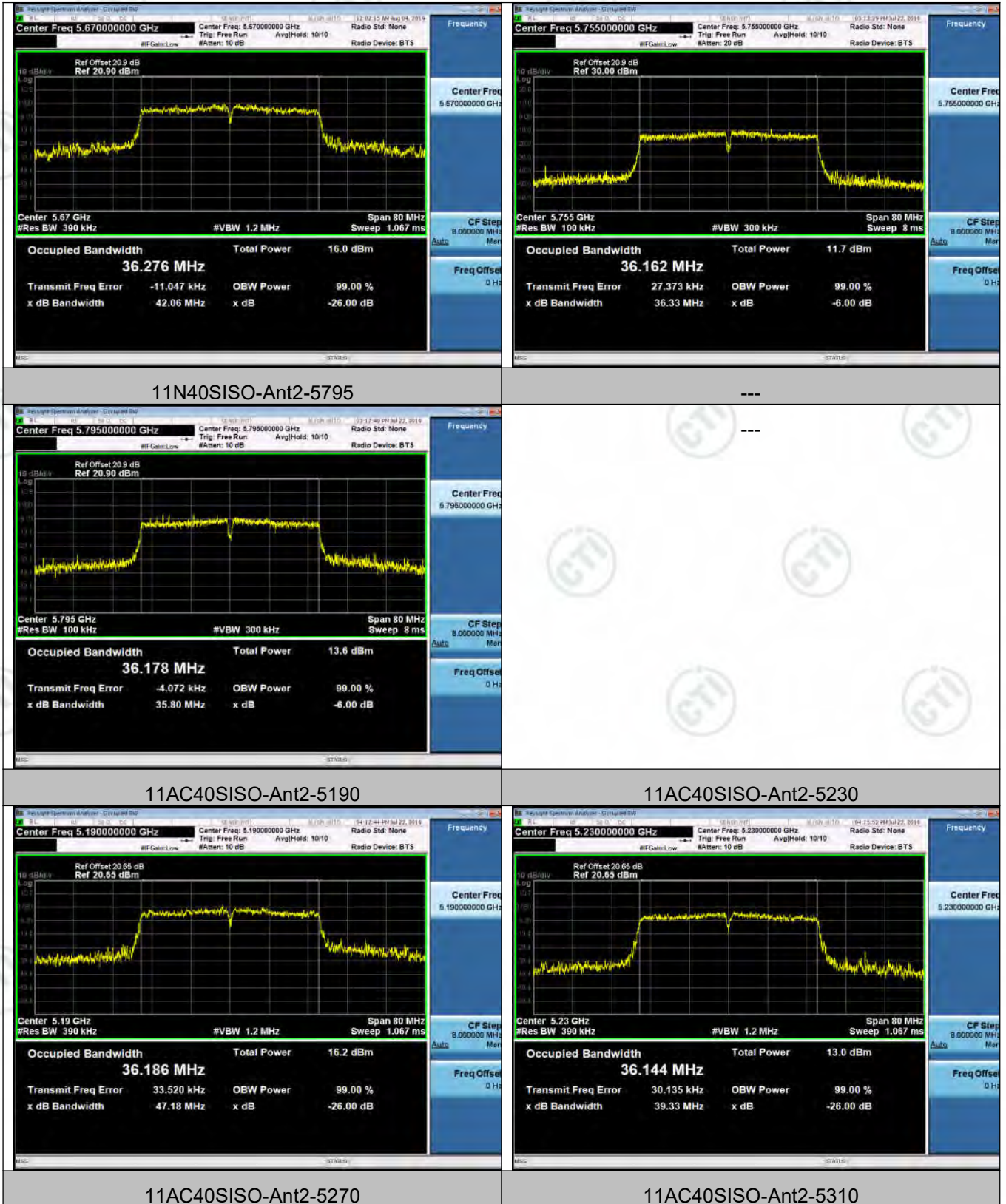
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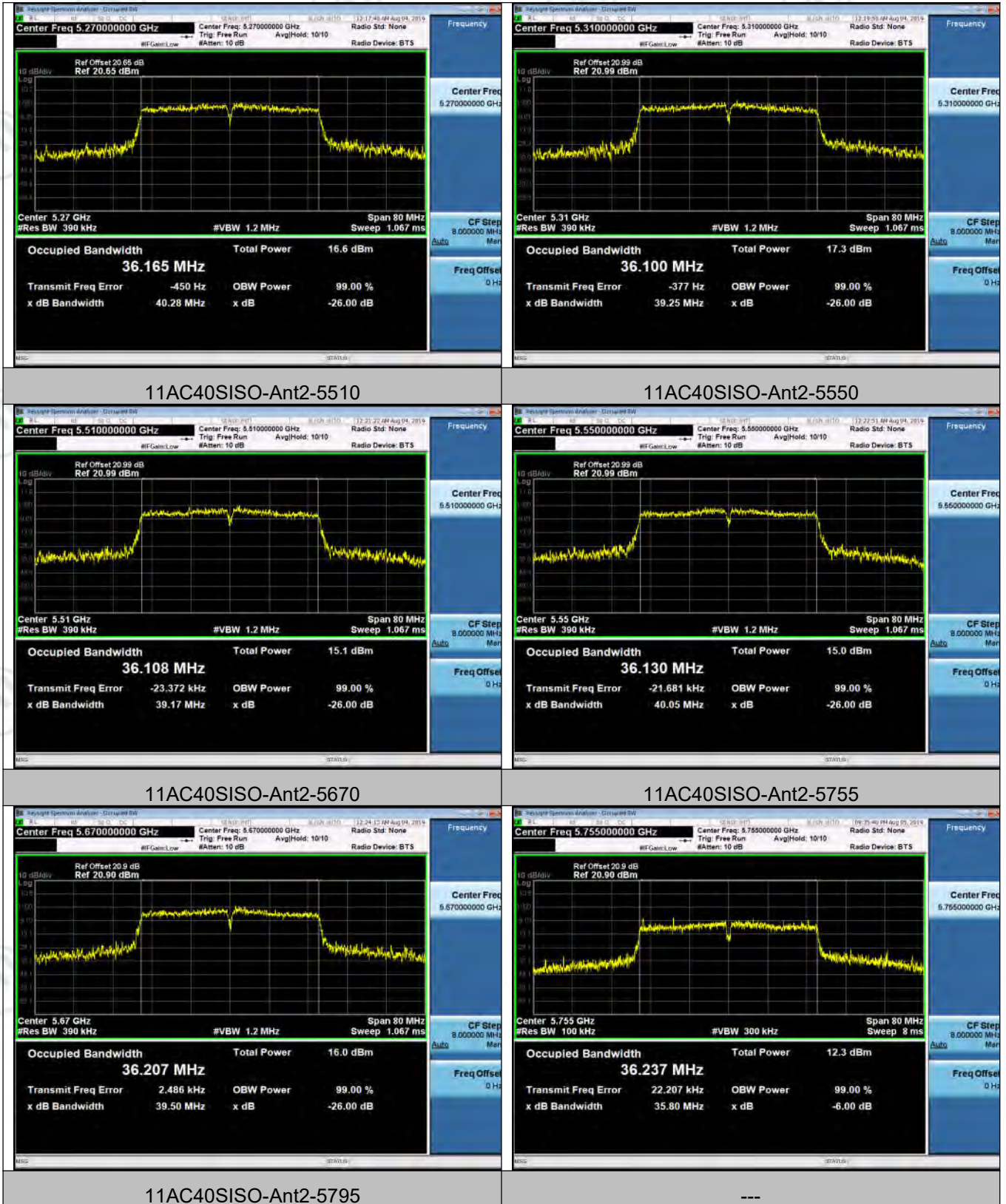


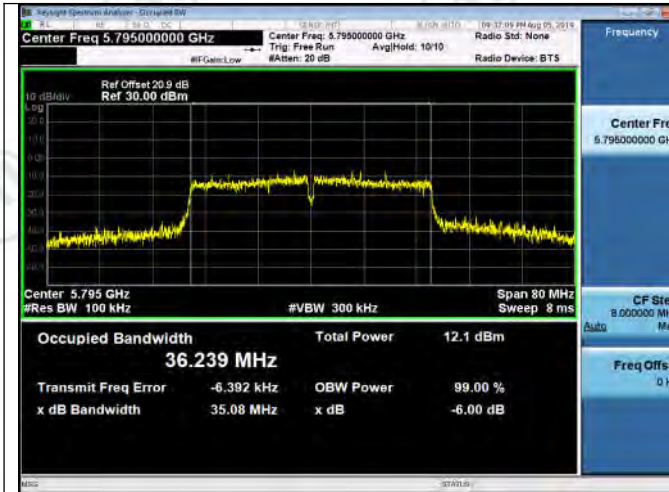
11N40SISO-Ant2-5190

11N40SISO-Ant2-5230





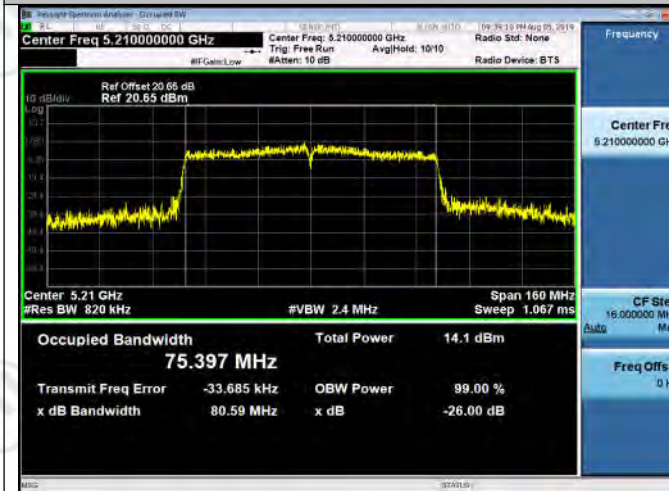




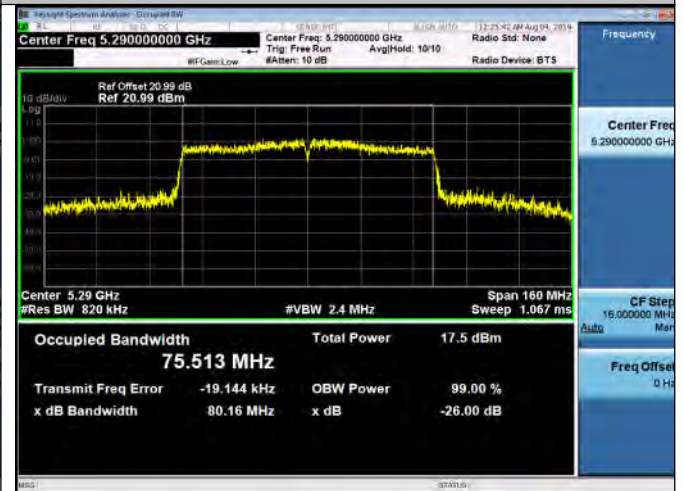
11AC80SISO-Ant2-5210



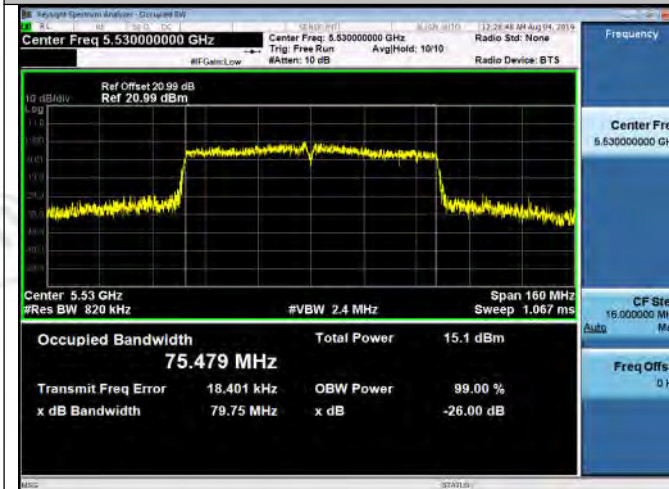
11AC80SISO-Ant2-5290



11AC80SISO-Ant2-5530



11AC80SISO-Ant2-5775



Ant 1:

Appendix B): Maximum Conduct Output Power

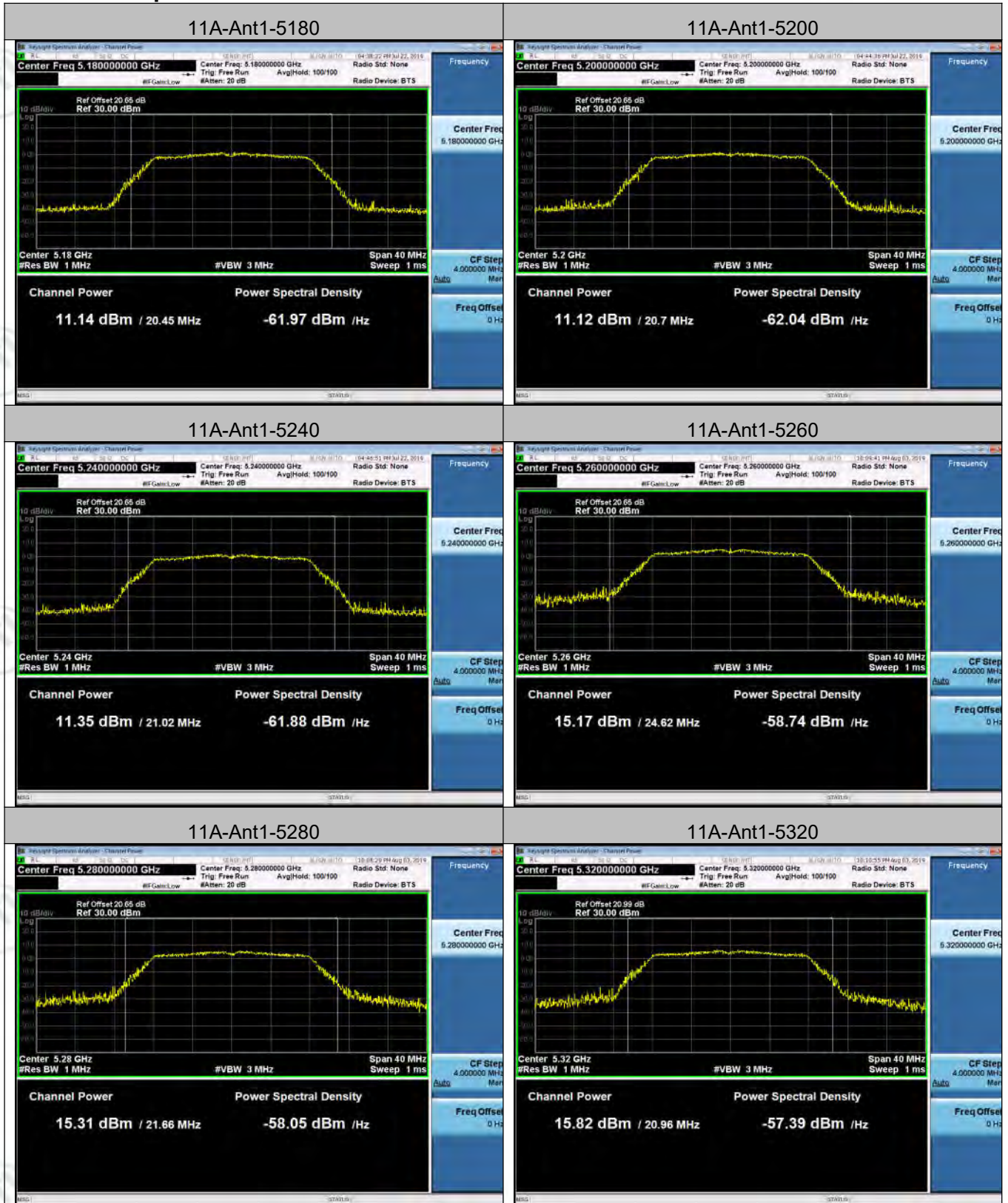
Result Table

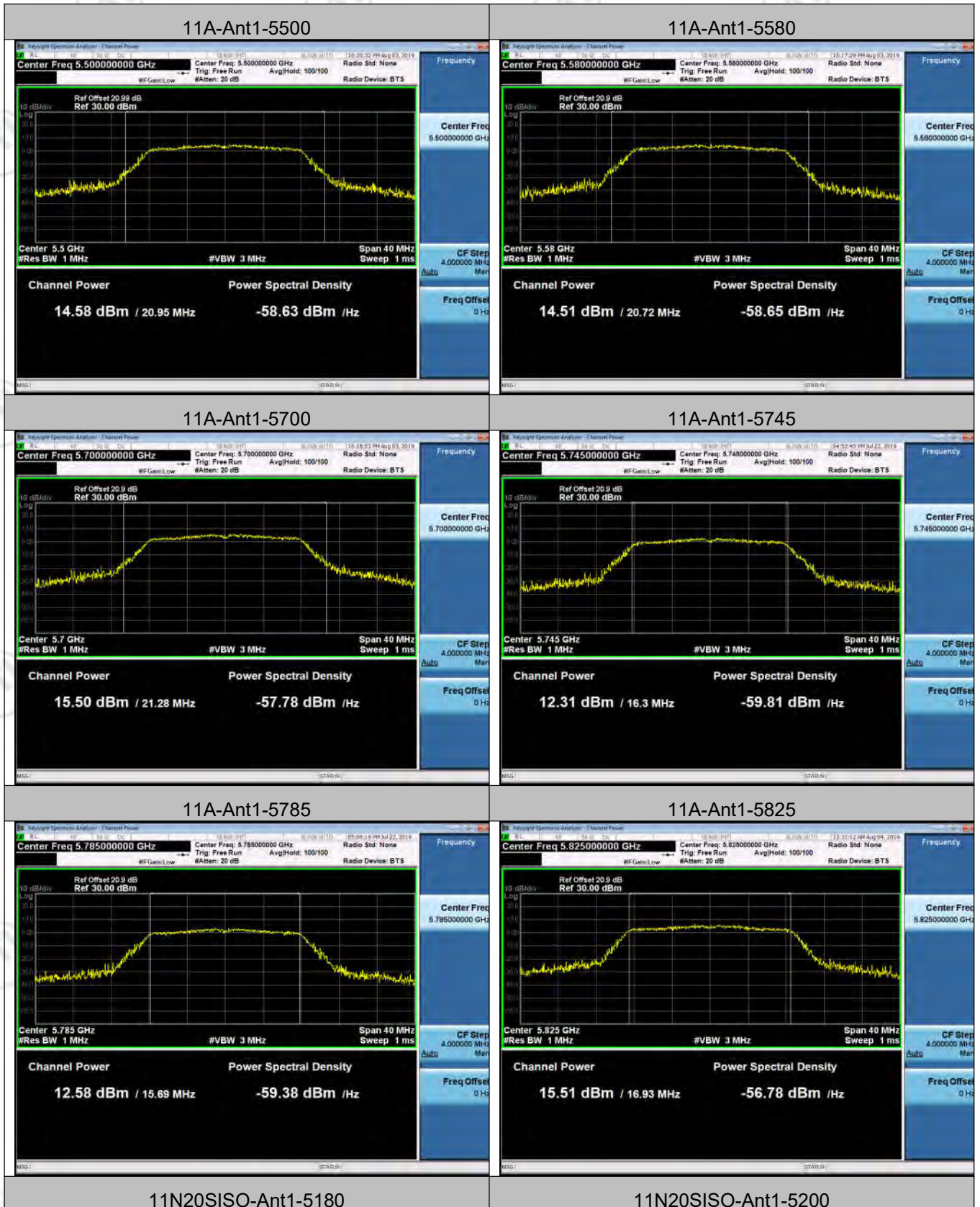
| Test Mode | Antenna | Channel | Meas.Level [dBm] | Av.Power [dBm] | Verdict |
|-----------|---------|---------|------------------|----------------|---------|
| 11A | Ant1 | 5180 | 11.14 | 11.2 | PASS |
| 11A | Ant1 | 5200 | 11.12 | 11.18 | PASS |
| 11A | Ant1 | 5240 | 11.35 | 11.41 | PASS |
| 11A | Ant1 | 5260 | 15.17 | 15.22 | PASS |
| 11A | Ant1 | 5280 | 15.31 | 15.37 | PASS |
| 11A | Ant1 | 5320 | 15.82 | 15.88 | PASS |
| 11A | Ant1 | 5500 | 14.58 | 14.63 | PASS |
| 11A | Ant1 | 5580 | 14.51 | 14.57 | PASS |
| 11A | Ant1 | 5700 | 15.5 | 15.55 | PASS |
| 11A | Ant1 | 5745 | 12.31 | 12.37 | PASS |
| 11A | Ant1 | 5785 | 12.58 | 12.64 | PASS |
| 11A | Ant1 | 5825 | 15.51 | 15.57 | PASS |
| 11N20SISO | Ant1 | 5180 | 10.77 | 10.83 | PASS |
| 11N20SISO | Ant1 | 5200 | 11.8 | 11.86 | PASS |
| 11N20SISO | Ant1 | 5240 | 11.76 | 11.82 | PASS |
| 11N20SISO | Ant1 | 5260 | 14.93 | 14.99 | PASS |
| 11N20SISO | Ant1 | 5280 | 15.11 | 15.17 | PASS |
| 11N20SISO | Ant1 | 5320 | 15.55 | 15.61 | PASS |
| 11N20SISO | Ant1 | 5500 | 14.23 | 14.29 | PASS |
| 11N20SISO | Ant1 | 5580 | 14.24 | 14.3 | PASS |
| 11N20SISO | Ant1 | 5700 | 15.12 | 15.18 | PASS |
| 11N20SISO | Ant1 | 5745 | 15.18 | 15.24 | PASS |
| 11N20SISO | Ant1 | 5785 | 15.62 | 15.68 | PASS |
| 11N20SISO | Ant1 | 5825 | 14.67 | 14.73 | PASS |

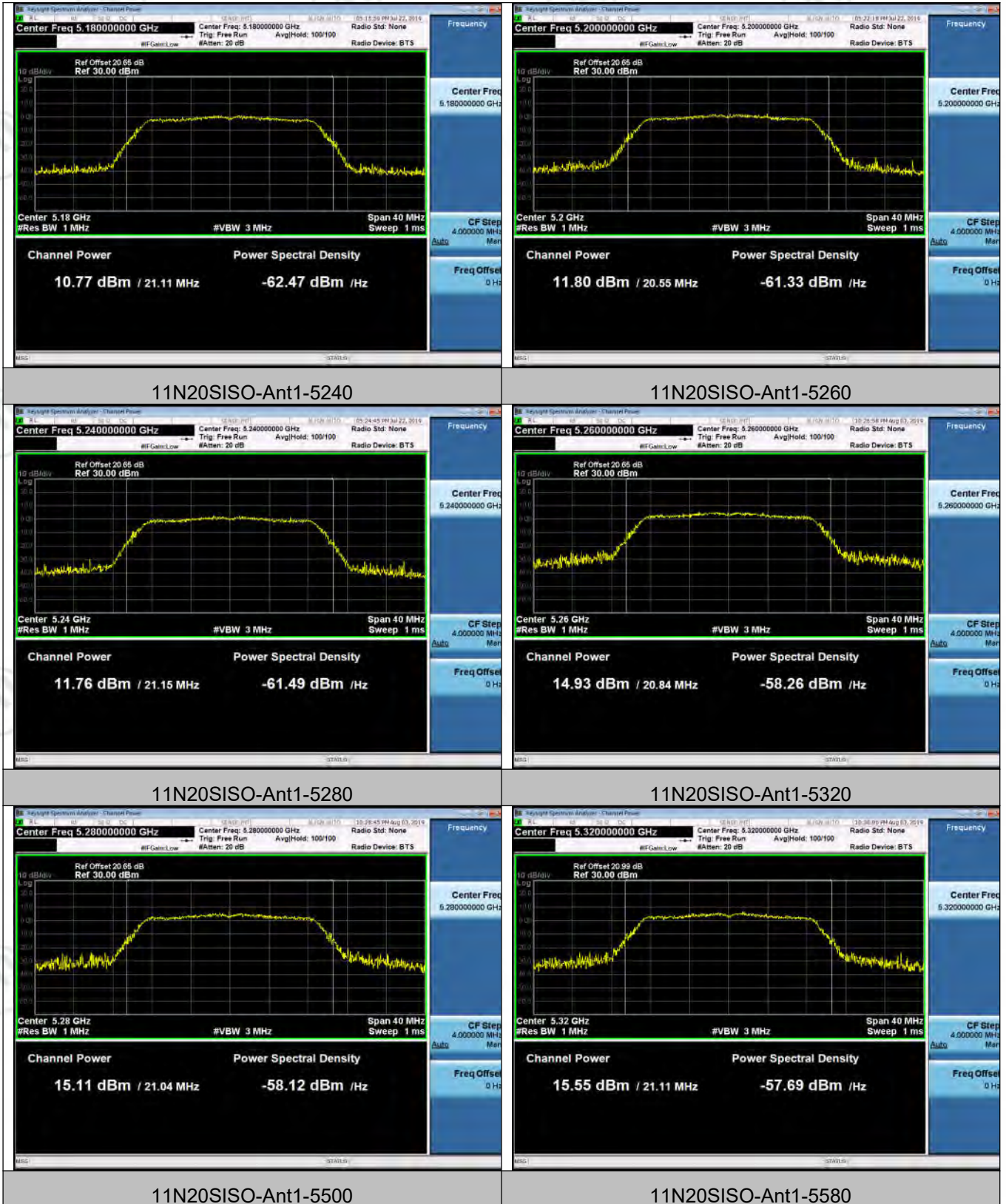
| | | | | | |
|------------|------|------|-------|-------|------|
| 11AC20SISO | Ant1 | 5180 | 11.84 | 11.9 | PASS |
| 11AC20SISO | Ant1 | 5200 | 11.4 | 11.46 | PASS |
| 11AC20SISO | Ant1 | 5240 | 12.18 | 12.24 | PASS |
| 11AC20SISO | Ant1 | 5260 | 14.81 | 14.87 | PASS |
| 11AC20SISO | Ant1 | 5280 | 15.12 | 15.18 | PASS |
| 11AC20SISO | Ant1 | 5320 | 15.45 | 15.51 | PASS |
| 11AC20SISO | Ant1 | 5500 | 14.31 | 14.37 | PASS |
| 11AC20SISO | Ant1 | 5580 | 13.92 | 13.98 | PASS |
| 11AC20SISO | Ant1 | 5700 | 15.03 | 15.09 | PASS |
| 11AC20SISO | Ant1 | 5745 | 15.11 | 15.17 | PASS |
| 11AC20SISO | Ant1 | 5785 | 15.28 | 15.34 | PASS |
| 11AC20SISO | Ant1 | 5825 | 15.23 | 15.29 | PASS |
| 11N40SISO | Ant1 | 5190 | 13.94 | 14.07 | PASS |
| 11N40SISO | Ant1 | 5230 | 13.9 | 14.02 | PASS |
| 11N40SISO | Ant1 | 5270 | 15.12 | 15.24 | PASS |
| 11N40SISO | Ant1 | 5310 | 15.75 | 15.88 | PASS |
| 11N40SISO | Ant1 | 5510 | 13.55 | 13.67 | PASS |
| 11N40SISO | Ant1 | 5550 | 13.4 | 13.52 | PASS |
| 11N40SISO | Ant1 | 5670 | 14.47 | 14.59 | PASS |
| 11N40SISO | Ant1 | 5755 | 13.24 | 13.36 | PASS |
| 11N40SISO | Ant1 | 5795 | 13.16 | 13.29 | PASS |
| 11AC40SISO | Ant1 | 5190 | 13.89 | 14.02 | PASS |
| 11AC40SISO | Ant1 | 5230 | 14.16 | 14.27 | PASS |
| 11AC40SISO | Ant1 | 5270 | 14.98 | 15.09 | PASS |
| 11AC40SISO | Ant1 | 5310 | 15.76 | 15.89 | PASS |
| 11AC40SISO | Ant1 | 5510 | 13.49 | 13.6 | PASS |
| 11AC40SISO | Ant1 | 5550 | 14.52 | 14.65 | PASS |
| 11AC40SISO | Ant1 | 5670 | 14.5 | 14.63 | PASS |

| | | | | | |
|------------|------|------|-------|-------|------|
| 11AC40SISO | Ant1 | 5755 | 15.11 | 15.24 | PASS |
| 11AC40SISO | Ant1 | 5795 | 15.22 | 15.35 | PASS |
| 11AC80SISO | Ant1 | 5210 | 10.33 | 10.59 | PASS |
| 11AC80SISO | Ant1 | 5290 | 10.74 | 11 | PASS |
| 11AC80SISO | Ant1 | 5530 | 6.78 | 7.01 | PASS |
| 11AC80SISO | Ant1 | 5775 | 12.56 | 12.82 | PASS |

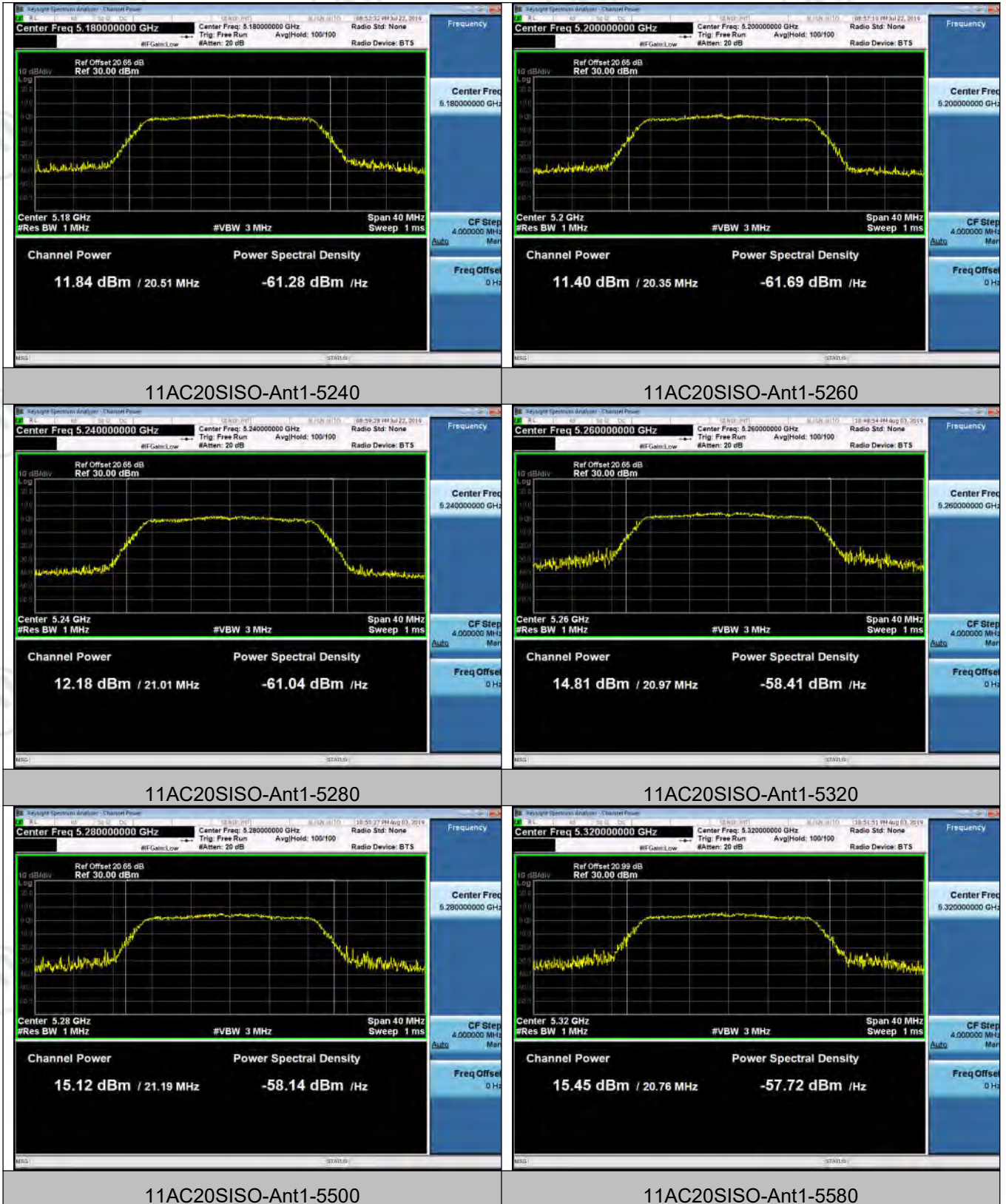
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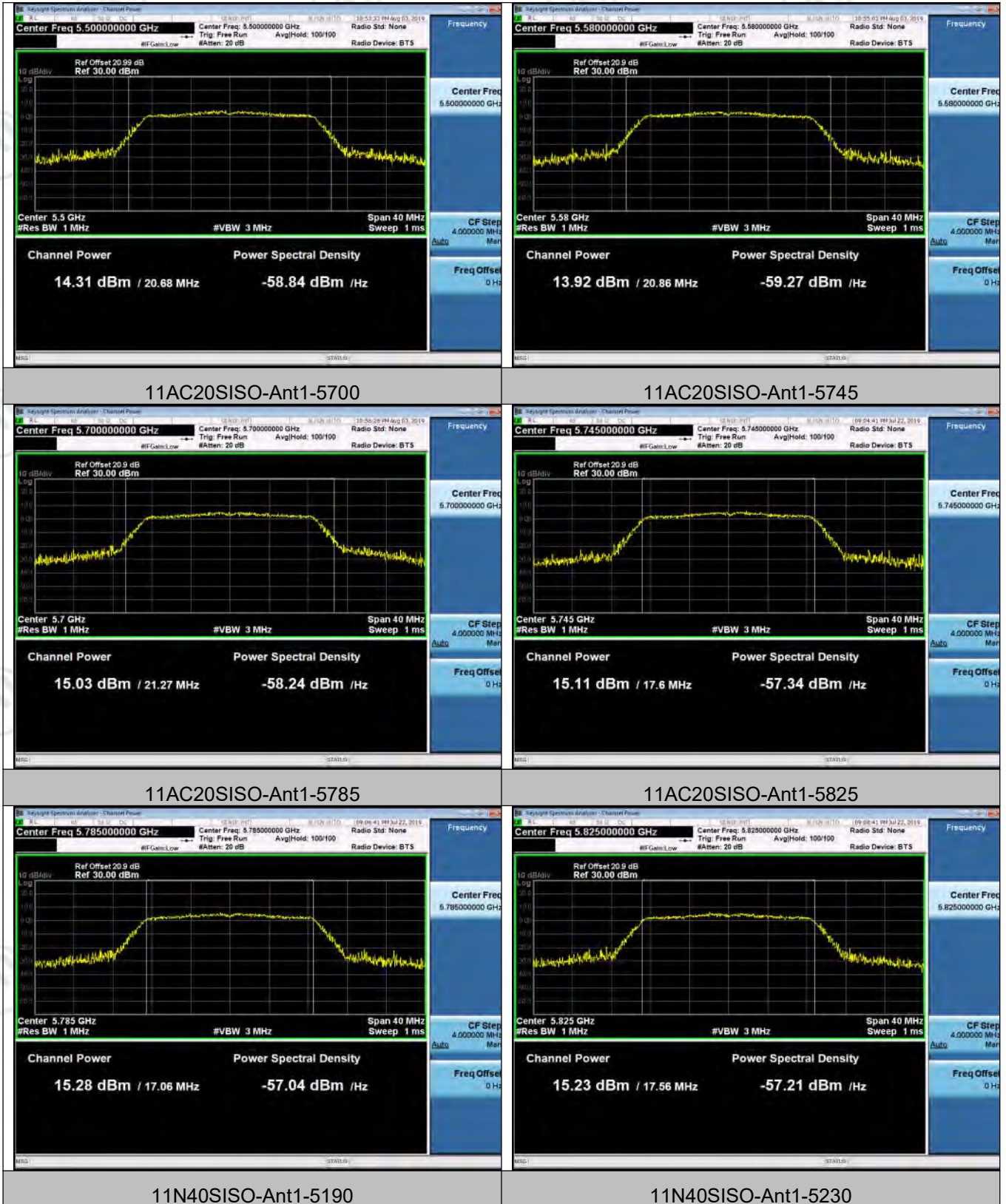


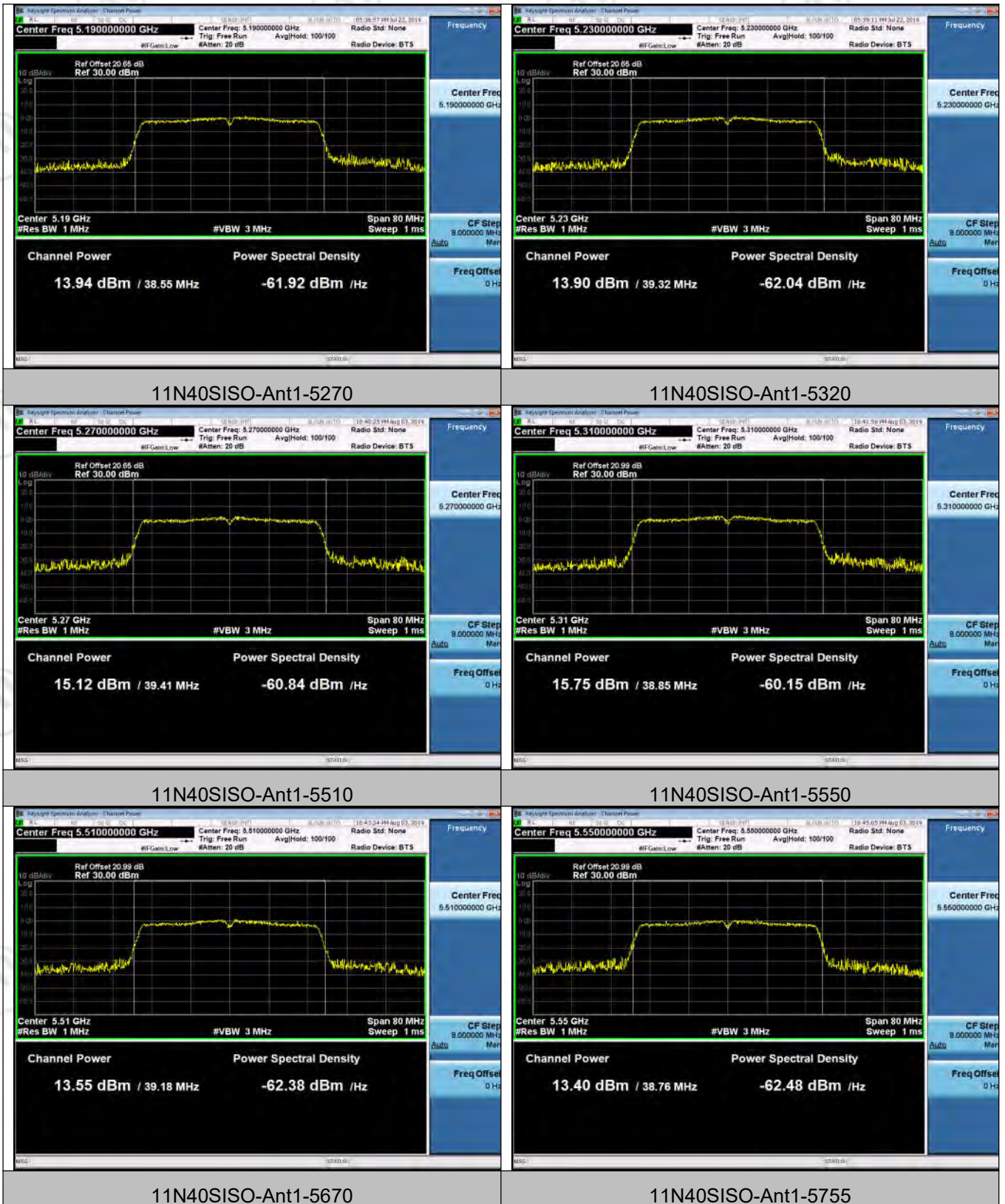


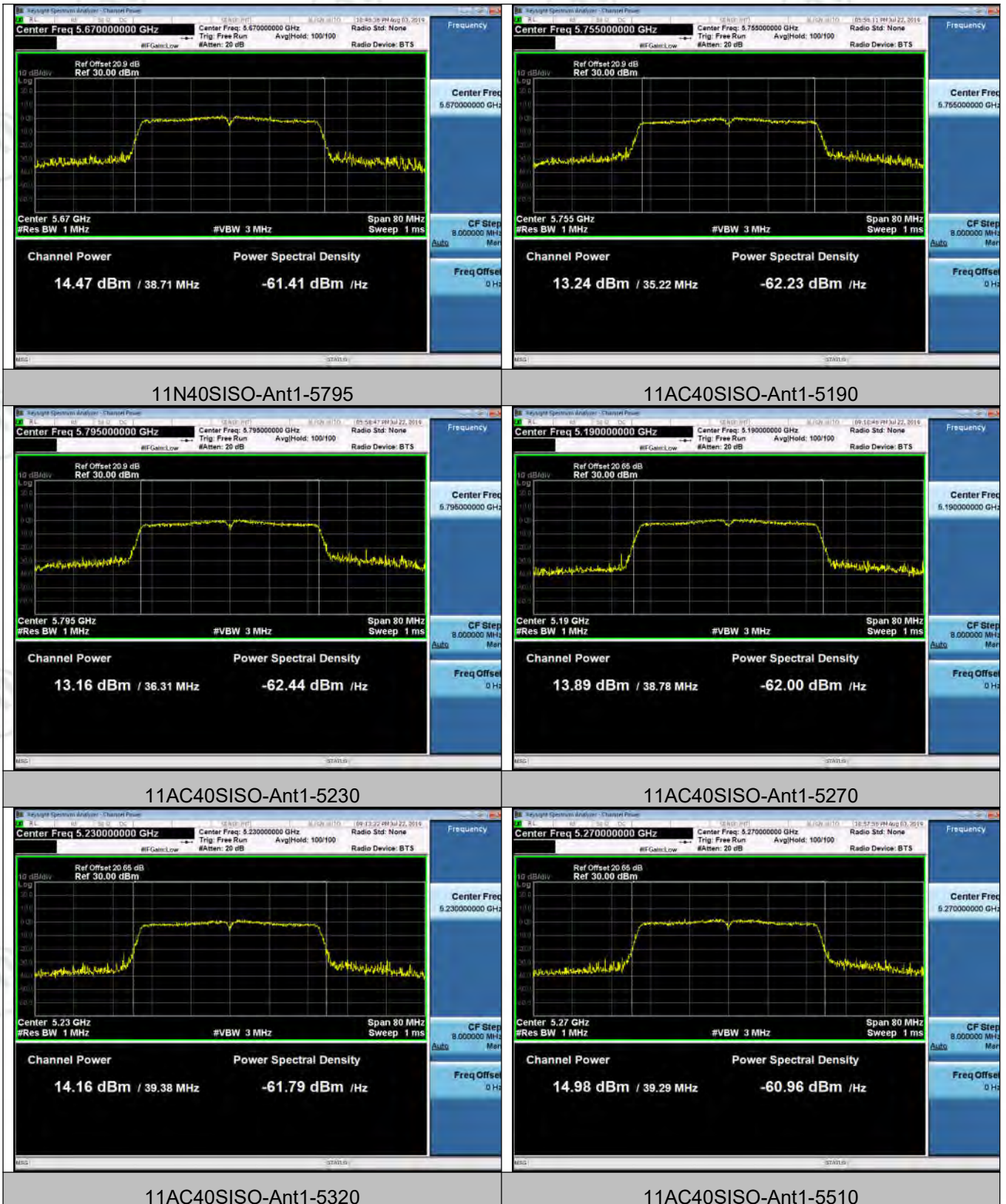


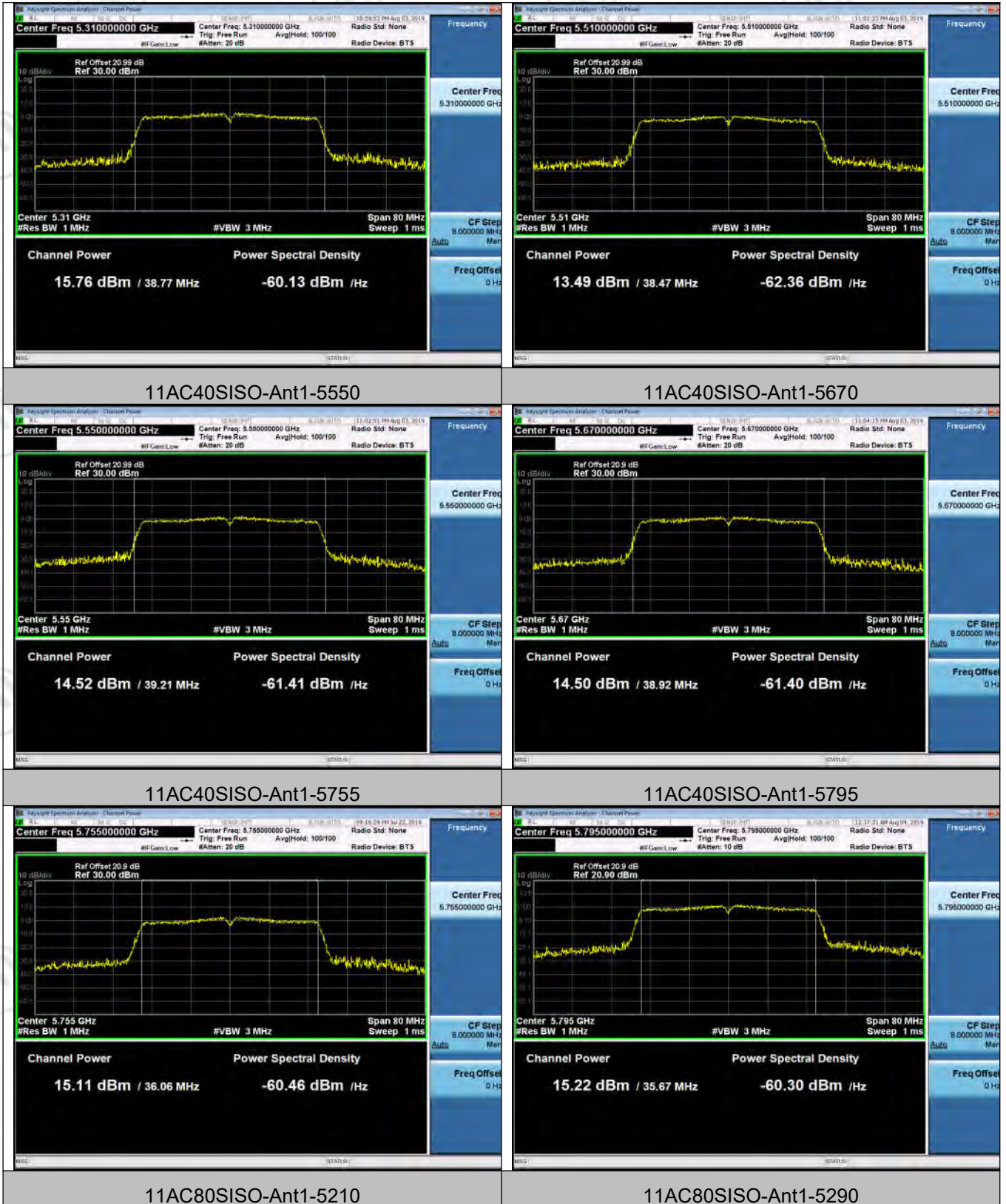


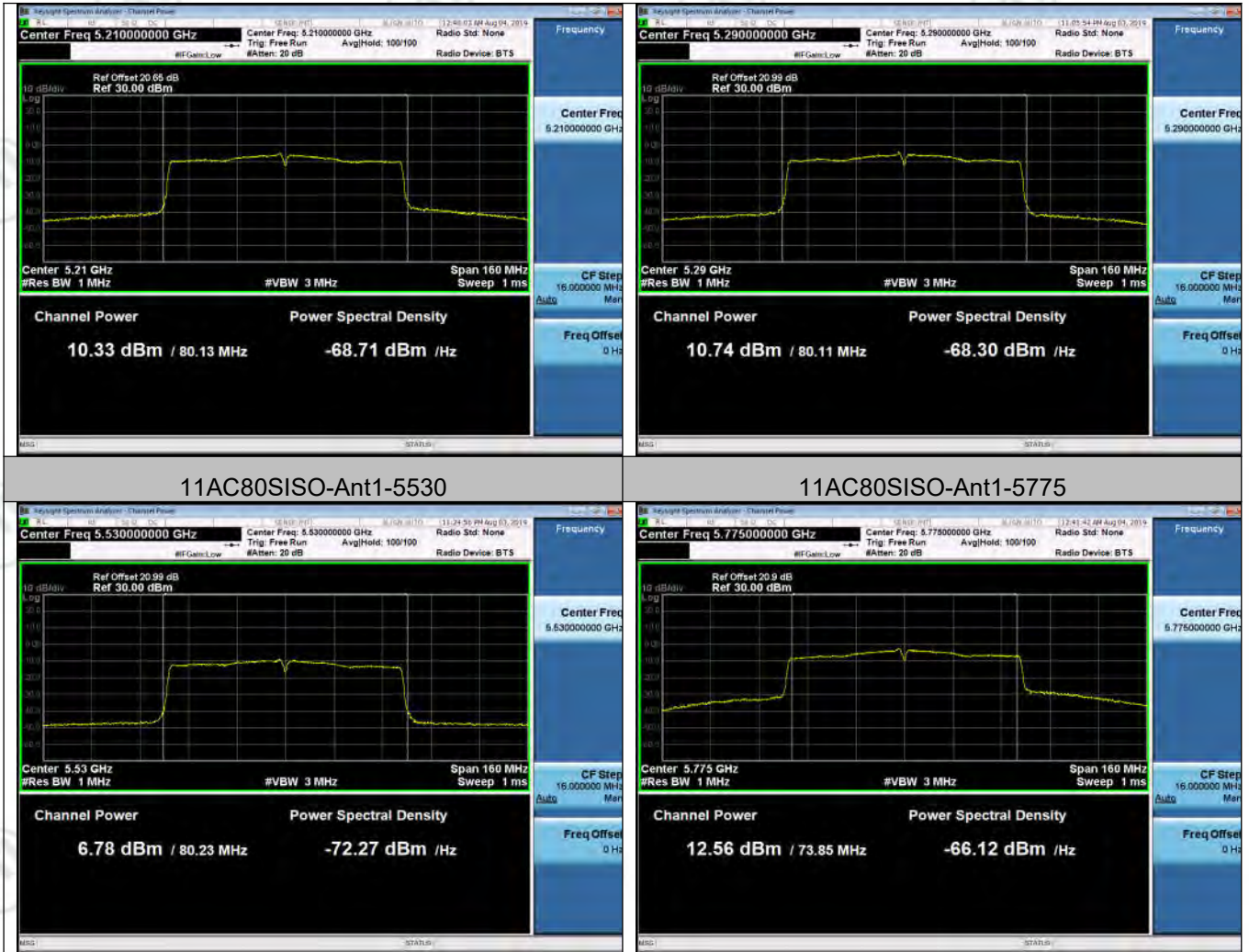










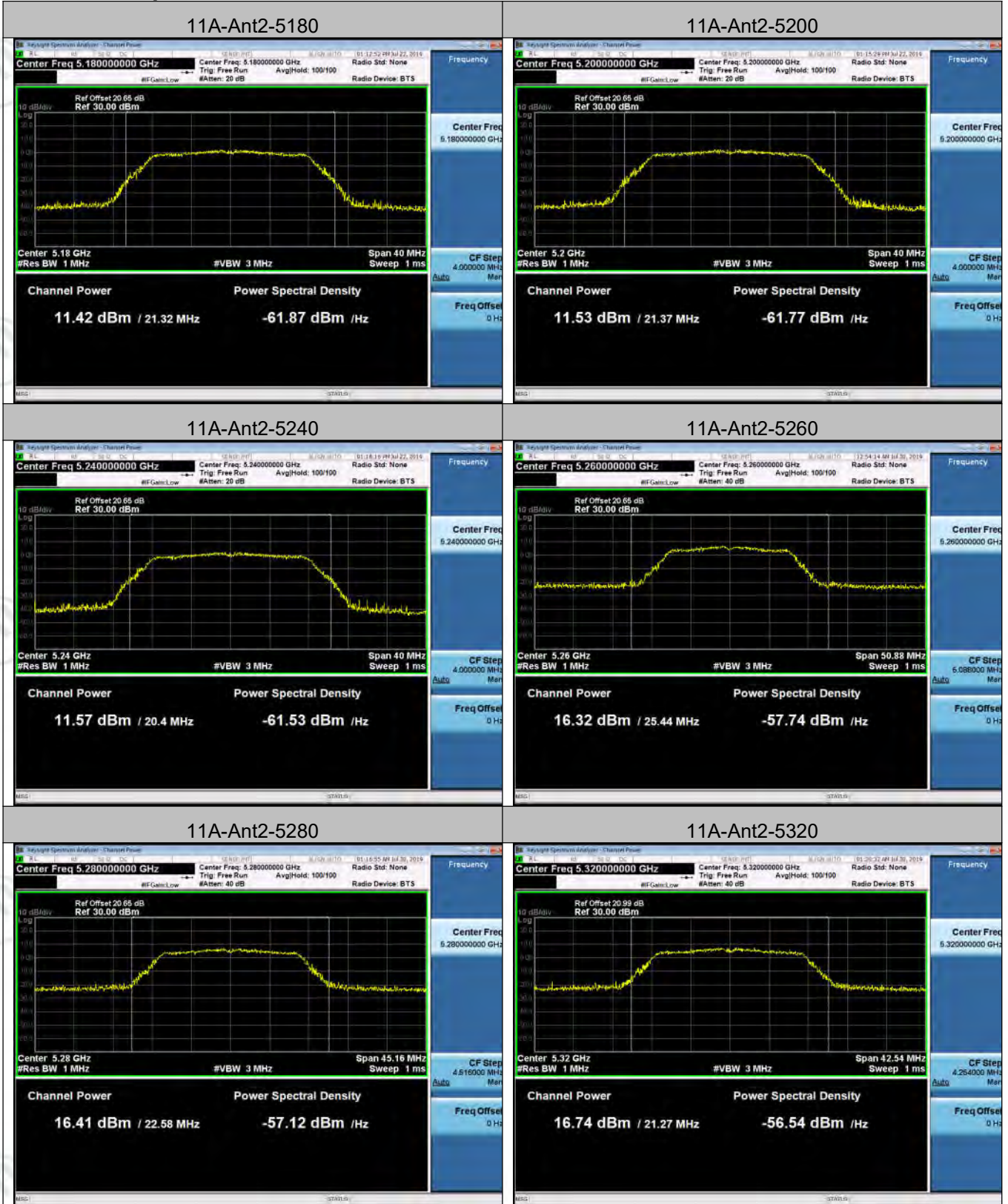


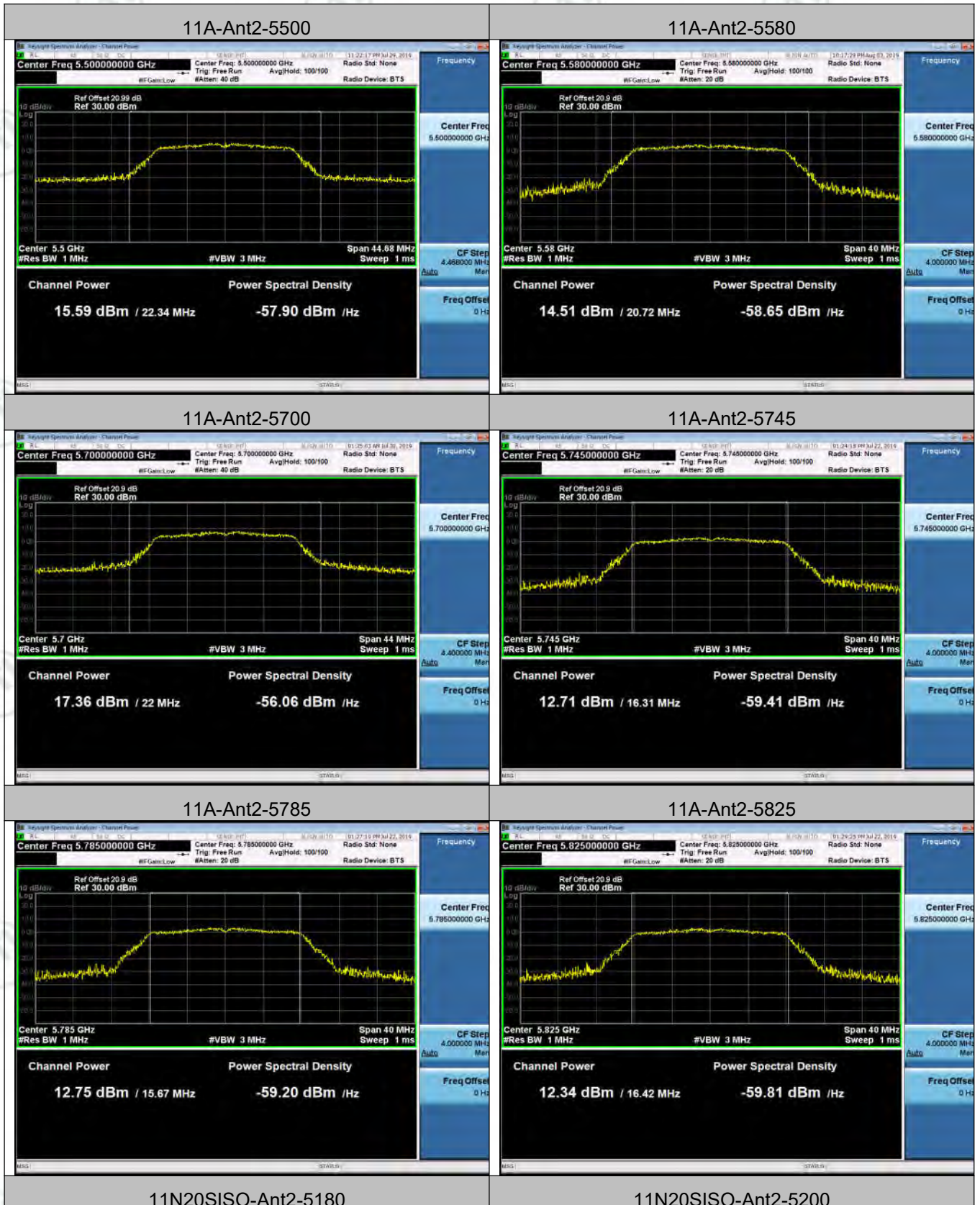
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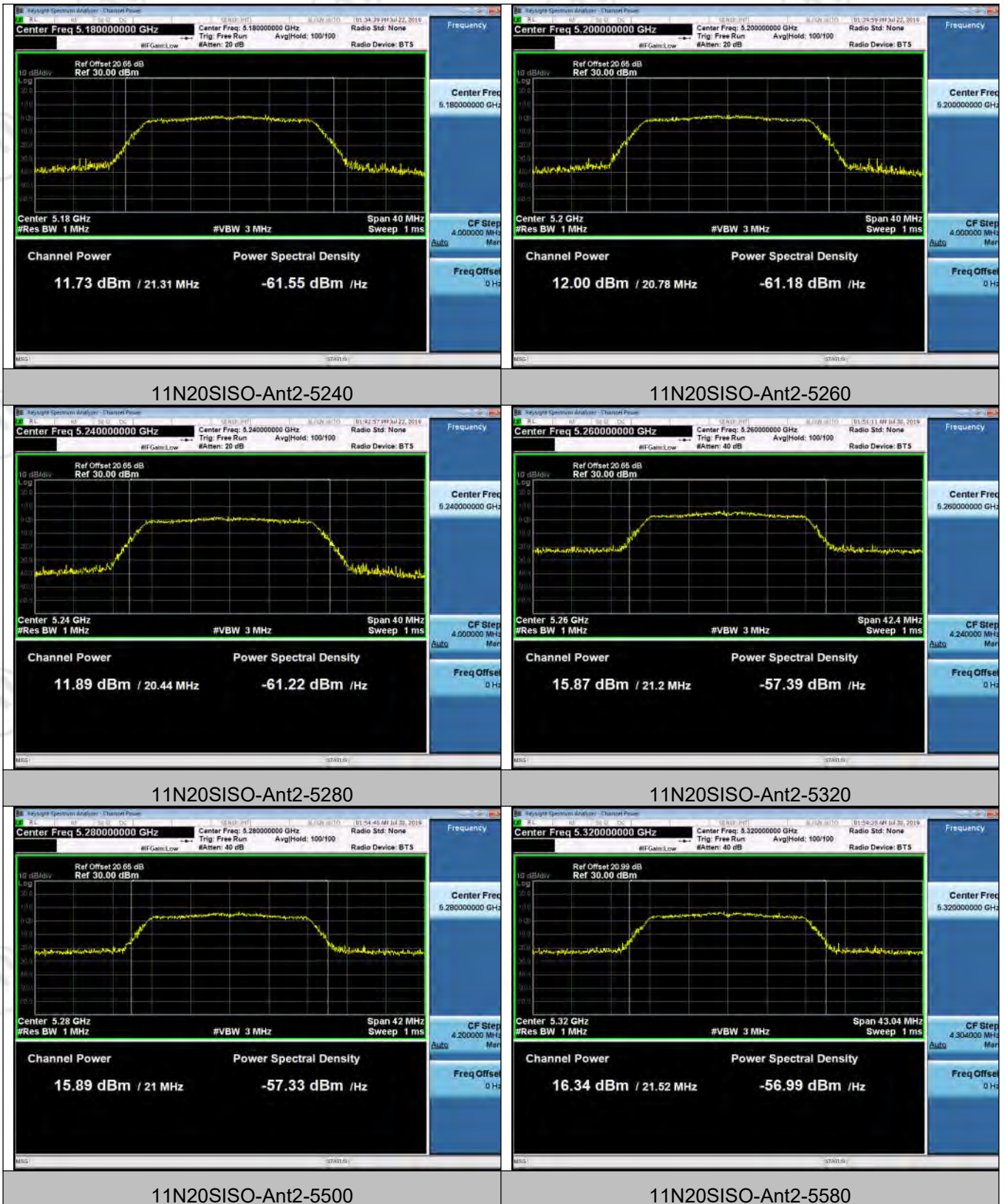
| Test Mode | Antenna | Channel | Meas.Level [dBm] | Av.Power [dBm] | Verdict |
|------------|---------|---------|------------------|----------------|---------|
| 11A | Ant2 | 5180 | 11.42 | 11.48 | PASS |
| 11A | Ant2 | 5200 | 11.53 | 11.58 | PASS |
| 11A | Ant2 | 5240 | 11.57 | 11.62 | PASS |
| 11A | Ant2 | 5260 | 16.32 | 16.37 | PASS |
| 11A | Ant2 | 5280 | 16.41 | 16.46 | PASS |
| 11A | Ant2 | 5320 | 16.74 | 16.79 | PASS |
| 11A | Ant2 | 5500 | 15.59 | 15.64 | PASS |
| 11A | Ant2 | 5580 | 14.51 | 14.57 | PASS |
| 11A | Ant2 | 5700 | 17.36 | 17.42 | PASS |
| 11A | Ant2 | 5745 | 12.71 | 12.77 | PASS |
| 11A | Ant2 | 5785 | 12.75 | 12.81 | PASS |
| 11A | Ant2 | 5825 | 12.34 | 12.4 | PASS |
| 11N20SISO | Ant2 | 5180 | 11.73 | 11.79 | PASS |
| 11N20SISO | Ant2 | 5200 | 12 | 12.06 | PASS |
| 11N20SISO | Ant2 | 5240 | 11.89 | 11.95 | PASS |
| 11N20SISO | Ant2 | 5260 | 15.87 | 15.93 | PASS |
| 11N20SISO | Ant2 | 5280 | 15.89 | 15.95 | PASS |
| 11N20SISO | Ant2 | 5320 | 16.34 | 16.4 | PASS |
| 11N20SISO | Ant2 | 5500 | 15.9 | 15.96 | PASS |
| 11N20SISO | Ant2 | 5580 | 15.72 | 15.78 | PASS |
| 11N20SISO | Ant2 | 5700 | 16.64 | 16.7 | PASS |
| 11N20SISO | Ant2 | 5745 | 11.82 | 11.88 | PASS |
| 11N20SISO | Ant2 | 5785 | 11.96 | 12.02 | PASS |
| 11N20SISO | Ant2 | 5825 | 10.38 | 10.44 | PASS |
| 11AC20SISO | Ant2 | 5180 | 11.76 | 11.82 | PASS |
| 11AC20SISO | Ant2 | 5200 | 11.98 | 12.04 | PASS |
| 11AC20SISO | Ant2 | 5240 | 10.73 | 10.79 | PASS |
| 11AC20SISO | Ant2 | 5260 | 15.75 | 15.81 | PASS |
| 11AC20SISO | Ant2 | 5280 | 15.76 | 15.82 | PASS |
| 11AC20SISO | Ant2 | 5320 | 17.92 | 17.98 | PASS |

| | | | | | |
|------------|------|------|-------|-------|------|
| 11AC20SISO | Ant2 | 5500 | 16.18 | 16.24 | PASS |
| 11AC20SISO | Ant2 | 5580 | 15.83 | 15.89 | PASS |
| 11AC20SISO | Ant2 | 5700 | 16.5 | 16.56 | PASS |
| 11AC20SISO | Ant2 | 5745 | 11.82 | 11.88 | PASS |
| 11AC20SISO | Ant2 | 5785 | 11.79 | 11.85 | PASS |
| 11AC20SISO | Ant2 | 5825 | 11.64 | 11.7 | PASS |
| 11N40SISO | Ant2 | 5190 | 14 | 14.13 | PASS |
| 11N40SISO | Ant2 | 5230 | 14.07 | 14.19 | PASS |
| 11N40SISO | Ant2 | 5270 | 16.61 | 16.74 | PASS |
| 11N40SISO | Ant2 | 5310 | 17.4 | 17.51 | PASS |
| 11N40SISO | Ant2 | 5510 | 15.19 | 15.31 | PASS |
| 11N40SISO | Ant2 | 5550 | 15.07 | 15.19 | PASS |
| 11N40SISO | Ant2 | 5670 | 16.13 | 16.26 | PASS |
| 11N40SISO | Ant2 | 5755 | 13.49 | 13.62 | PASS |
| 11N40SISO | Ant2 | 5795 | 13.56 | 13.69 | PASS |
| 11AC40SISO | Ant2 | 5190 | 13.14 | 13.25 | PASS |
| 11AC40SISO | Ant2 | 5230 | 13.13 | 13.24 | PASS |
| 11AC40SISO | Ant2 | 5270 | 16.7 | 16.81 | PASS |
| 11AC40SISO | Ant2 | 5310 | 17.35 | 17.46 | PASS |
| 11AC40SISO | Ant2 | 5510 | 15.2 | 15.31 | PASS |
| 11AC40SISO | Ant2 | 5550 | 15.2 | 15.33 | PASS |
| 11AC40SISO | Ant2 | 5670 | 16.1 | 16.21 | PASS |
| 11AC40SISO | Ant2 | 5755 | 12.1 | 12.21 | PASS |
| 11AC40SISO | Ant2 | 5795 | 12.4 | 12.51 | PASS |
| 11AC80SISO | Ant2 | 5210 | 9.19 | 9.42 | PASS |
| 11AC80SISO | Ant2 | 5290 | 12.43 | 12.66 | PASS |
| 11AC80SISO | Ant2 | 5530 | 10.13 | 10.36 | PASS |
| 11AC80SISO | Ant2 | 5775 | 8.9 | 9.13 | PASS |

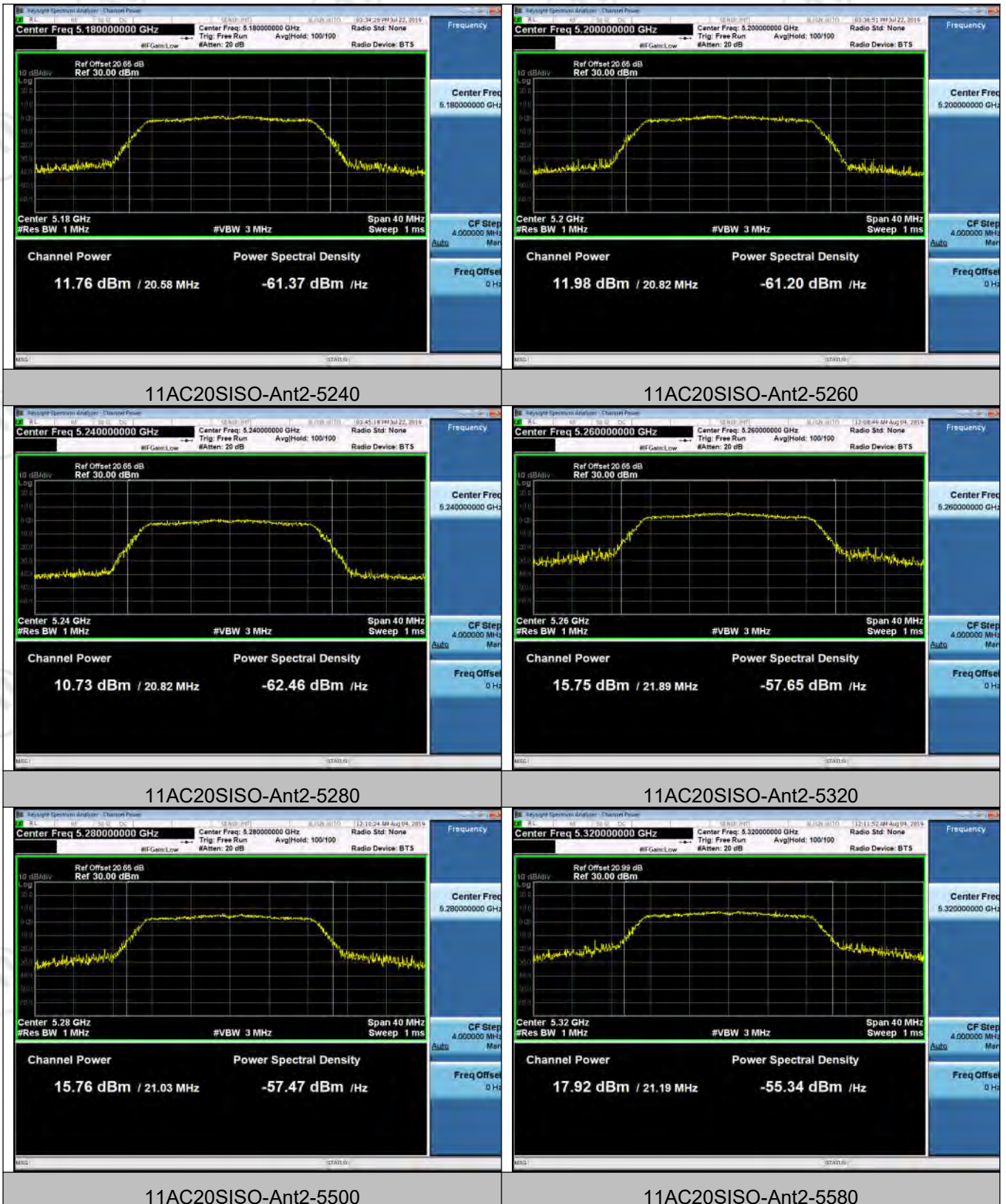
Test Graph



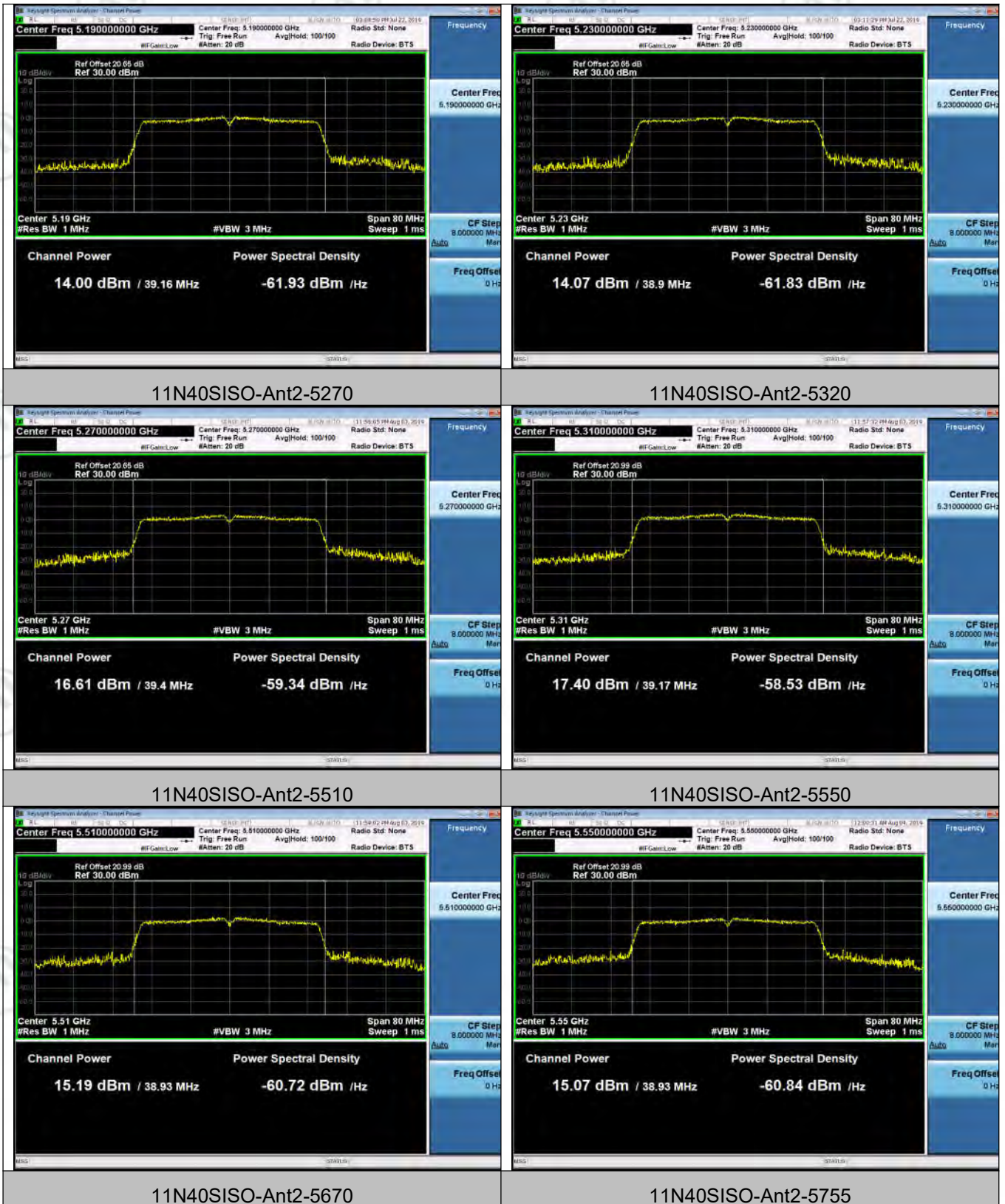


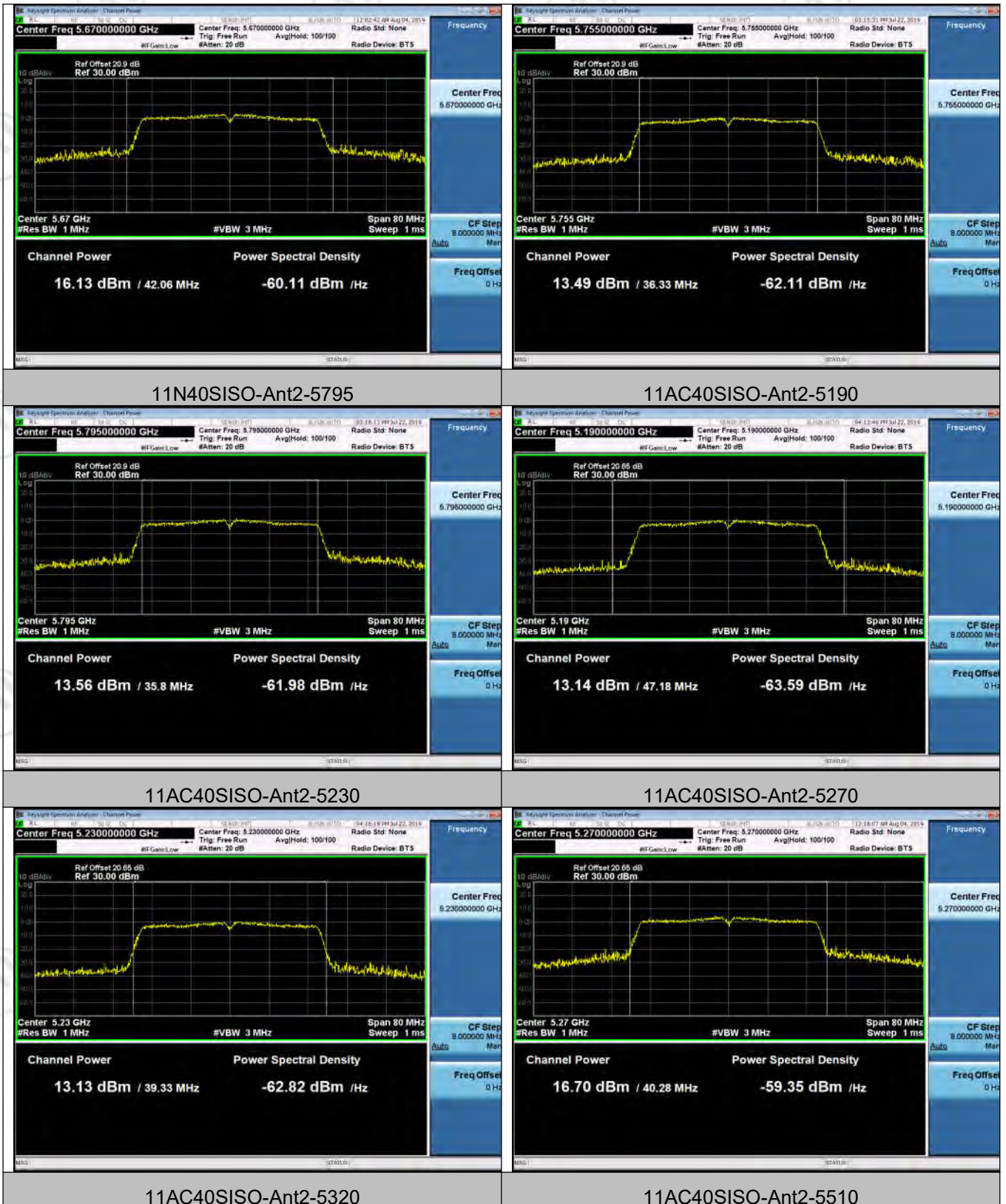


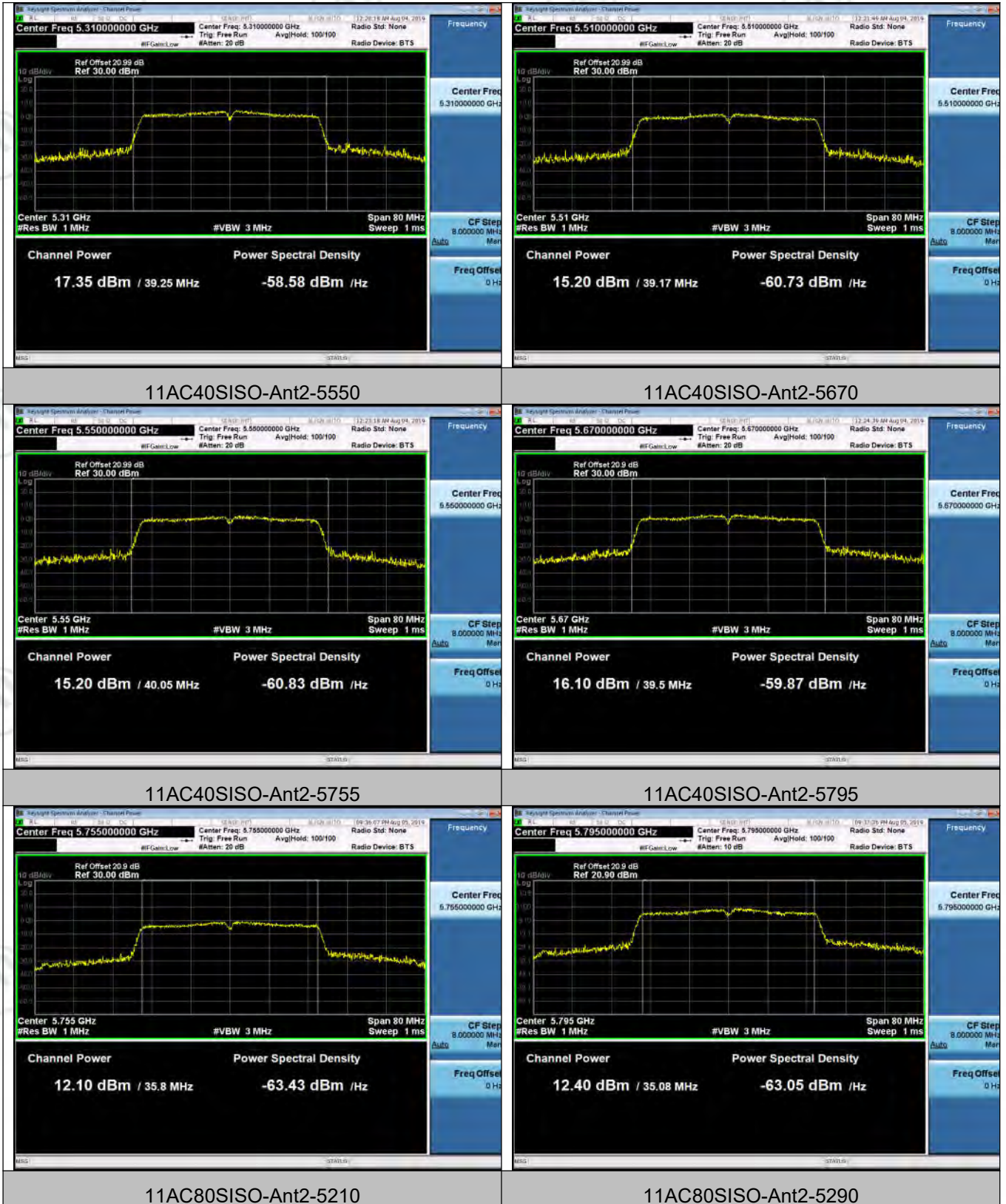


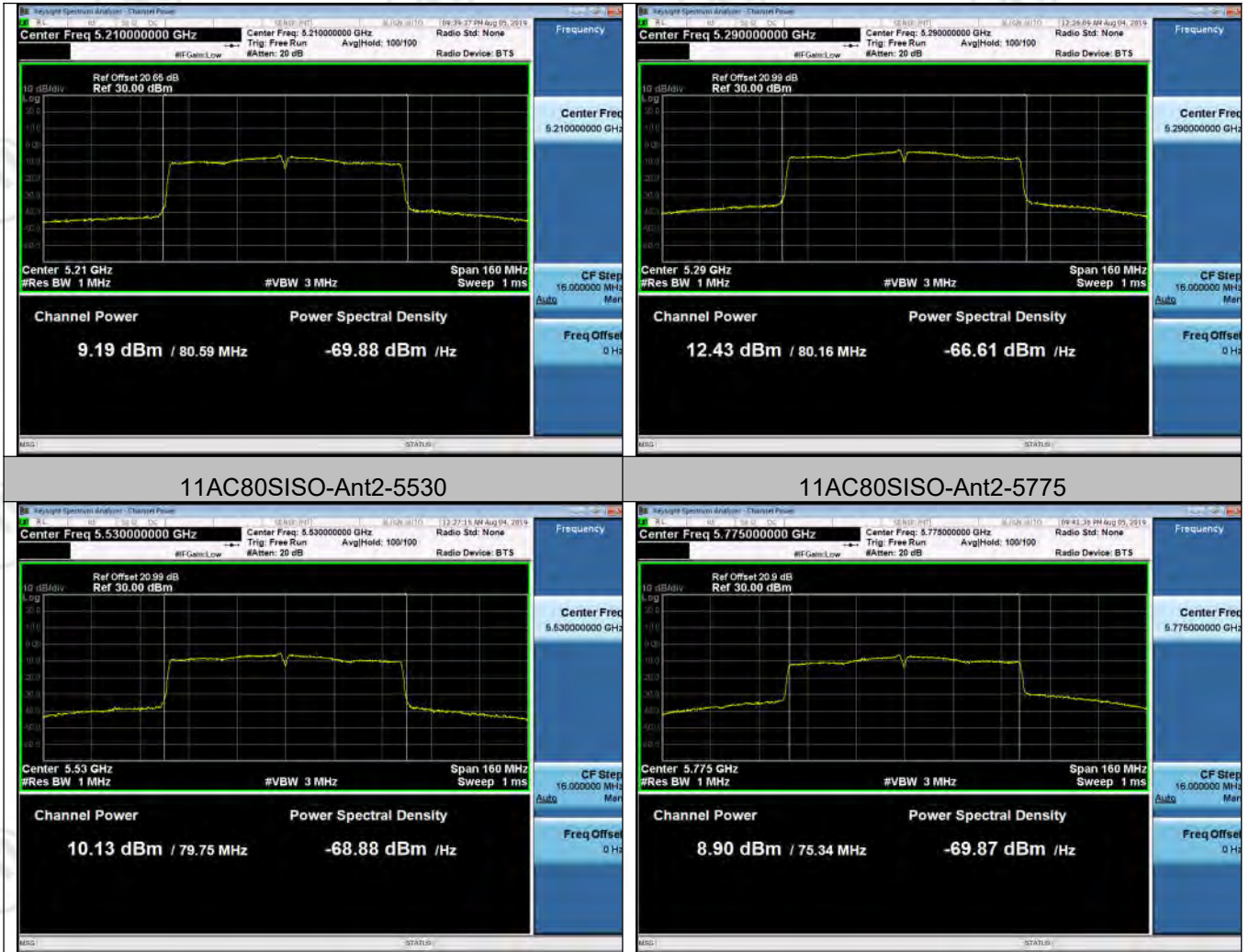












Ant1:
Appendix C): Power Spectral Density
Result Table

| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
|-----------|---------|---------|------------------|------------------|---------|
| 11A | Ant1 | 5180 | 4.42 | 4.48 | PASS |
| 11A | Ant1 | 5200 | 4.18 | 4.24 | PASS |
| 11A | Ant1 | 5240 | 4.41 | 4.47 | PASS |
| 11A | Ant1 | 5260 | 8.47 | 8.53 | PASS |
| 11A | Ant1 | 5280 | 8.34 | 8.40 | PASS |
| 11A | Ant1 | 5320 | 8.88 | 8.94 | PASS |
| 11A | Ant1 | 5500 | 7.91 | 7.97 | PASS |
| 11A | Ant1 | 5580 | 7.51 | 7.57 | PASS |
| 11A | Ant1 | 5700 | 8.57 | 8.62 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11A | Ant1 | 5745 | 2.02 | 2.08 | PASS |
| 11A | Ant1 | 5785 | 2.24 | 2.30 | PASS |
| 11A | Ant1 | 5825 | 4.92 | 4.98 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
| 11N20SISO | Ant1 | 5180 | 4.13 | 4.19 | PASS |
| 11N20SISO | Ant1 | 5200 | 4.67 | 4.74 | PASS |
| 11N20SISO | Ant1 | 5240 | 5.01 | 5.06 | PASS |
| 11N20SISO | Ant1 | 5260 | 7.73 | 7.79 | PASS |
| 11N20SISO | Ant1 | 5280 | 8.01 | 8.06 | PASS |
| 11N20SISO | Ant1 | 5320 | 8.39 | 8.45 | PASS |
| 11N20SISO | Ant1 | 5500 | 7.13 | 7.19 | PASS |
| 11N20SISO | Ant1 | 5580 | 6.81 | 6.87 | PASS |
| 11N20SISO | Ant1 | 5700 | 8.41 | 8.47 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11N20SISO | Ant1 | 5745 | 4.83 | 4.89 | PASS |
| 11N20SISO | Ant1 | 5785 | 5.56 | 5.62 | PASS |
| 11N20SISO | Ant1 | 5825 | 4.46 | 4.51 | PASS |

| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
|------------|---------|---------|------------------|------------------|---------|
| 11N40SISO | Ant1 | 5190 | 4.16 | 4.29 | PASS |
| 11N40SISO | Ant1 | 5230 | 4.23 | 4.35 | PASS |
| 11N40SISO | Ant1 | 5270 | 5.32 | 5.44 | PASS |
| 11N40SISO | Ant1 | 5310 | 5.66 | 5.79 | PASS |
| 11N40SISO | Ant1 | 5510 | 3.78 | 3.89 | PASS |
| 11N40SISO | Ant1 | 5550 | 3.20 | 3.32 | PASS |
| 11N40SISO | Ant1 | 5670 | 4.62 | 4.73 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11N40SISO | Ant1 | 5755 | -0.19 | -0.08 | PASS |
| 11N40SISO | Ant1 | 5795 | 0.04 | 0.17 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
| 11AC20SISO | Ant1 | 5180 | 4.92 | 4.99 | PASS |
| 11AC20SISO | Ant1 | 5200 | 4.52 | 4.58 | PASS |
| 11AC20SISO | Ant1 | 5240 | 4.99 | 5.05 | PASS |
| 11AC20SISO | Ant1 | 5260 | 7.82 | 7.88 | PASS |
| 11AC20SISO | Ant1 | 5280 | 8.16 | 8.22 | PASS |
| 11AC20SISO | Ant1 | 5320 | 8.30 | 8.35 | PASS |
| 11AC20SISO | Ant1 | 5500 | 7.25 | 7.31 | PASS |
| 11AC20SISO | Ant1 | 5580 | 6.88 | 6.95 | PASS |
| 11AC20SISO | Ant1 | 5700 | 8.40 | 8.46 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC20SISO | Ant1 | 5745 | 5.12 | 5.17 | PASS |
| 11AC20SISO | Ant1 | 5785 | 4.75 | 4.81 | PASS |
| 11AC20SISO | Ant1 | 5825 | 4.62 | 4.67 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
| 11AC40SISO | Ant1 | 5190 | 3.94 | 4.07 | PASS |
| 11AC40SISO | Ant1 | 5230 | 4.32 | 4.44 | PASS |
| 11AC40SISO | Ant1 | 5270 | 4.97 | 5.09 | PASS |
| 11AC40SISO | Ant1 | 5310 | 5.85 | 5.98 | PASS |

| 11AC40SISO | Ant1 | 5510 | 3.91 | 4.03 | PASS |
|------------|---------|---------|------------------|------------------|---------|
| 11AC40SISO | Ant1 | 5550 | 5.47 | 5.59 | PASS |
| 11AC40SISO | Ant1 | 5670 | 4.84 | 4.97 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC40SISO | Ant1 | 5755 | 1.89 | 2.02 | PASS |
| 11AC40SISO | Ant1 | 5795 | 1.71 | 1.84 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
| 11AC80SISO | Ant1 | 5210 | 2.08 | 2.33 | PASS |
| 11AC80SISO | Ant1 | 5290 | 2.78 | 3.04 | PASS |
| 11AC80SISO | Ant1 | 5530 | -1.23 | -1.00 | PASS |
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/500kHz] | Verdict |
| 11AC80SISO | Ant1 | 5775 | 2.06 | 2.32 | PASS |