

SKYBELL TECHNOLOGIES INC

TEST REPORT

SCOPE OF WORK

FCC TESTING-TRIM2 S, TRIM2 B

REPORT NUMBER

200603023SZN-002

ISSUE DATE

[REVISED DATE]

30 September 2020

[-----]

PAGES

75

DOCUMENT CONTROL NUMBER

FCC 15C_Tx_b

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RF TEST REPORT

Report No.: 200603023SZN-002

Product: TRIM II PRO

Model No.: TRIM2 S, TRIM2 B

FCC ID: 2ADXI-SBHD20

Applicant: SKYBELL TECHNOLOGIES INC

Test Method/ Standard: FCC Part 15 Subpart E;
KDB 789033 D02 v02r01;
KDB 662911 D01 v02r01;
KDB 905462 D02 v02;
ANSI C63.10-2013

Test By: Intertek Testing Services Shenzhen Ltd. Longhua Branch
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Date: 30 September 2020

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Summary of Tests

| FCC Parts | Test | Section | Results |
|-----------------------------|---------------------------------|---------|---------|
| 15.203 | Antenna Requirement | 1.3 | Pass |
| 15.407 a (1)/(3) | Maximum output power test | 3 | Pass |
| 15.407 a (1)/(3) | Power Spectrum Density test | 4 | Pass |
| 15.407 e | 6dB Bandwidth | 5 | Pass |
| 15.407 b, 15.205, 15.209 | Radiated spurious emission test | 6 | Pass |
| 15.207 | AC line conducted emission test | 7 | Pass |
| 15.407 g | Frequency Stability | 8 | Pass |

1. General information**1.1 Identification of the EUT**

| | |
|----------------------------|--|
| Product: | TRIM II PRO |
| Model No.: | TRIM2 S, TRIM2 B |
| Type of Device: | Client device |
| Nominal Channel Bandwidth: | 802.11a/n-HT20 (20 MHz), 802.11n-HT40 (40MHz), 802.11ac (20/40/80MHz) |
| Operating Frequency: | 5725MHz~5850MHz |
| Channel Number: | 5 channels for 5745 MHz ~ 5825 MHz (802.11a/n/ac-HT20); 2 channels for 5755 MHz ~ 5795 MHz (802.11n/ac-HT40); 1 channels for 5775 MHz (802.11ac-HT80); |
| Modulation: | 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) |
| Rated Power: | 10-30VAC 50/60Hz, 0.5A Max or 12VDC, 0.5-1.0A |
| Test Date(s): | 20 September 2020 to 29 September 2020 |
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| Note 2: | When determining the test conclusion, the Measurement Uncertainty of test has been considered. |

1.2 Additional information about the EUT

The EUT is a TRIM II PRO with 2.4G/5G WIFI technology. The EUT is powered by 10-30VAC 50/60Hz, 0.5A Max or 12VDC, 0.5-1.0A. The EUT is equipped with two antennas, they can't transmit at the same time. The 2.4G transmitter and 5G transmitter can't transmit at the same time. For more detail features, please refer to User's description as file name "descri.pdf".

The Model: TRIM2 B is the same as the Model: TRIM2 S in hardware aspect (circuitry and electrical, mechanical and physical construction), the only differences is the model number and appearance for trading purpose.

Related Submittal(s) Grants

1. For the 2.4GHz WIFI function was tested and demonstrated in report 200603023SZN-001.
2. Other Digital Function: Subject to FCC Part 15B SDOC.

1.3 Antenna description (15.203)

The EUT uses Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

Antenna Gain:

Antenna 1: 1.0dBi

Antenna 2: 0.2dBi

1.4 Peripherals equipment

Refer List:

| Description | Manufacturer | Model No. |
|-------------|--------------|------------------------|
| Adapter | FEIHE | TY1200200E1mn |
| USB cable | / | Unshielded 20cm Length |
| SD card | Kingston | U3 V30 A2 |
| AC cable | / | Unshielded 90cm Length |

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 E, Section 15.203, 15.207, 15.209, 15.407 and ANSI C63.10/2013, method of measurement: KDB 789033.

The test of radiated measurements according to FCC Part 15 Section 15.33(a) had been conducted and the field strength of this frequency band was all meet limit requirement, thus we evaluate the EUT pass the specified test.

The AC power conducted emissions was invested over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz (15.207 paragraph).

Radiated emissions were invested cover the frequency range from 9KHz to 30MHz using a receiver RBW of 9kHz, from 30 MHz to 1000 MHz using a receiver RBW of 120 kHz record QP reading, and the frequency over 1 GHz using a spectrum analyzer RBW of 1 MHz, VBW of 3MHz, Detector=Peak record for Peak reading, RBW of 1 MHz, VBW of 3MHz, Detector=RMS record for Average reading recorded on the report.

The EUT setup configurations please refer to the photo of radiated setup photos.pdf & conducted setup photos.pdf.

2.2 Operation mode

The EUT was supplied by and it was run in TX mode that was controlled by client provided RF testing program.

The EUT was transmitted continuously during the test. The worst case test result was showed in the report.

With individual verifying, the maximum output power was found at 6 Mbps data rate for 802.11a mode, 6.5 Mbps data rate for 802.11n-HT20 mode, 13.5 Mbps data rate for 802.11n-HT40 mode, 29.3Mbps data rate for 802.11ac. The final tests were executed under these conditions and recorded in this report individually.

Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software: Trim 2 V8072

3. Maximum Output Power test (FCC 15.407)**3.1 Operating environment**

Temperature: 25 °C
Relative Humidity: 55 %
Atmospheric Pressure: 1011 hPa

3.2 Test setup & procedure

The power output per FCC §15.407(a) was measured on the EUT using a 50 ohm SMA cable connected to Power Meter and the measurement method refer to 789033 D02. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

3.3 Limit

| Operating Frequency (MHz) | Max Conducted TX Power | Max EIRP |
|---------------------------|------------------------|------------------------------|
| 5725~5850 | 30dBm (1W) | 4W (36dBm) with 6dBi antenna |

Remark: 1) The device was declared as client device.

- 2) Tx Power Reduction (dBm-by-dBi) required when antenna exceeds 6dBi.
- 3) Max antenna gain< 6 dBi.

3.4 Measured data of Maximum Output Power test results

5725 MHz ~ 5850 MHz

Max Conducted TX Power

| Test Mode | Antenna | Channel | Result | Limit | Verdict |
|------------|---------|---------|--------|-------|---------|
| 11A | Ant1 | 5745 | 19.27 | <=30 | PASS |
| | Ant2 | 5745 | 17.94 | <=30 | PASS |
| | Ant1 | 5785 | 20.65 | <=30 | PASS |
| | Ant2 | 5785 | 16.45 | <=30 | PASS |
| | Ant1 | 5825 | 17.46 | <=30 | PASS |
| | Ant2 | 5825 | 18.00 | <=30 | PASS |
| 11N20SISO | Ant1 | 5745 | 18.46 | <=30 | PASS |
| | Ant2 | 5745 | 16.94 | <=30 | PASS |
| | Ant1 | 5785 | 15.34 | <=30 | PASS |
| | Ant2 | 5785 | 15.30 | <=30 | PASS |
| | Ant1 | 5825 | 15.97 | <=30 | PASS |
| | Ant2 | 5825 | 16.13 | <=30 | PASS |
| 11N40SISO | Ant1 | 5755 | 19.02 | <=30 | PASS |
| | Ant2 | 5755 | 18.05 | <=30 | PASS |
| | Ant1 | 5795 | 15.55 | <=30 | PASS |
| | Ant2 | 5795 | 16.02 | <=30 | PASS |
| 11AC20SISO | Ant1 | 5745 | 18.22 | <=30 | PASS |
| | Ant2 | 5745 | 17.20 | <=30 | PASS |
| | Ant1 | 5785 | 15.75 | <=30 | PASS |
| | Ant2 | 5785 | 15.23 | <=30 | PASS |
| | Ant1 | 5825 | 15.69 | <=30 | PASS |
| | Ant2 | 5825 | 16.17 | <=30 | PASS |
| 11AC40SISO | Ant1 | 5755 | 18.67 | <=30 | PASS |
| | Ant2 | 5755 | 17.83 | <=30 | PASS |
| | Ant1 | 5795 | 16.01 | <=30 | PASS |
| | Ant2 | 5795 | 16.37 | <=30 | PASS |
| 11AC80SISO | Ant1 | 5775 | 17.57 | <=30 | PASS |
| | Ant2 | 5775 | 18.13 | <=30 | PASS |

MAX EIRP

| Test Mode | Antenna | Channel | Output Power (dBm) | ANT. Gain (dBi) | E.I.R.P (dBm) | Limit | Verdict |
|------------|---------|---------|--------------------|-----------------|---------------|-------|---------|
| 11A | Ant1 | 5745 | 19.27 | 1.0 | 20.27 | <=36 | PASS |
| | Ant2 | 5745 | 17.94 | 0.2 | 18.14 | <=36 | PASS |
| | Ant1 | 5785 | 20.65 | 1.0 | 21.65 | <=36 | PASS |
| | Ant2 | 5785 | 16.45 | 0.2 | 16.65 | <=36 | PASS |
| | Ant1 | 5825 | 17.46 | 1.0 | 18.46 | <=36 | PASS |
| | Ant2 | 5825 | 18.00 | 0.2 | 18.2 | <=36 | PASS |
| 11N20SISO | Ant1 | 5745 | 18.46 | 1.0 | 19.46 | <=36 | PASS |
| | Ant2 | 5745 | 16.94 | 0.2 | 17.14 | <=36 | PASS |
| | Ant1 | 5785 | 15.34 | 1.0 | 16.34 | <=36 | PASS |
| | Ant2 | 5785 | 15.30 | 0.2 | 15.50 | <=36 | PASS |
| | Ant1 | 5825 | 15.97 | 1.0 | 16.97 | <=36 | PASS |
| | Ant2 | 5825 | 16.13 | 0.2 | 16.33 | <=36 | PASS |
| 11N40SISO | Ant1 | 5755 | 19.02 | 1.0 | 20.02 | <=36 | PASS |
| | Ant2 | 5755 | 18.05 | 0.2 | 18.25 | <=36 | PASS |
| | Ant1 | 5795 | 15.55 | 1.0 | 16.55 | <=36 | PASS |
| | Ant2 | 5795 | 16.02 | 0.2 | 16.22 | <=36 | PASS |
| 11AC20SISO | Ant1 | 5745 | 18.22 | 1.0 | 19.22 | <=36 | PASS |
| | Ant2 | 5745 | 17.20 | 0.2 | 17.40 | <=36 | PASS |
| | Ant1 | 5785 | 15.75 | 1.0 | 16.75 | <=36 | PASS |
| | Ant2 | 5785 | 15.23 | 0.2 | 15.43 | <=36 | PASS |
| | Ant1 | 5825 | 15.69 | 1.0 | 16.69 | <=36 | PASS |
| | Ant2 | 5825 | 16.17 | 0.2 | 16.37 | <=36 | PASS |
| 11AC40SISO | Ant1 | 5755 | 18.67 | 1.0 | 19.67 | <=36 | PASS |
| | Ant2 | 5755 | 17.83 | 0.2 | 18.03 | <=36 | PASS |
| | Ant1 | 5795 | 16.01 | 1.0 | 17.01 | <=36 | PASS |
| | Ant2 | 5795 | 16.37 | 0.2 | 16.57 | <=36 | PASS |
| 11AC80SISO | Ant1 | 5775 | 17.57 | 1.0 | 18.57 | <=36 | PASS |
| | Ant2 | 5775 | 18.13 | 0.2 | 18.33 | <=36 | PASS |

4. Power Spectrum Density test (FCC 15.407)**4.1 Operating environment**

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1011 hPa

4.2 Test setup & procedure**Method of Measurement:**

The power spectrum density per FCC §15.407(a) was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 500KHz, the video bandwidth set at 2MHz (measurement method refer to KDB 789033 D02). Power spectrum density was read directly and cable loss reading to obtain power at the EUT antenna terminals.

4.3 Limit

| Operating Frequency (MHz) | Max Conducted Power Spectral Density |
|---------------------------|--------------------------------------|
| 5725~5850 | 30dBm/500KHz |

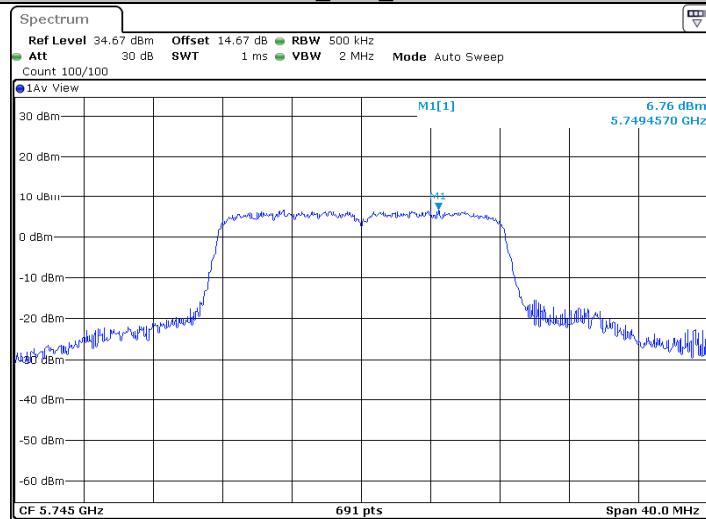
Remark: 1) *The device was declared as Slave device.

- 2) Tx Power Reduction (dBm-by-dBi) required when antenna exceeds 6dBi.
- 3) Max. Antenna gain < 6 dBi.

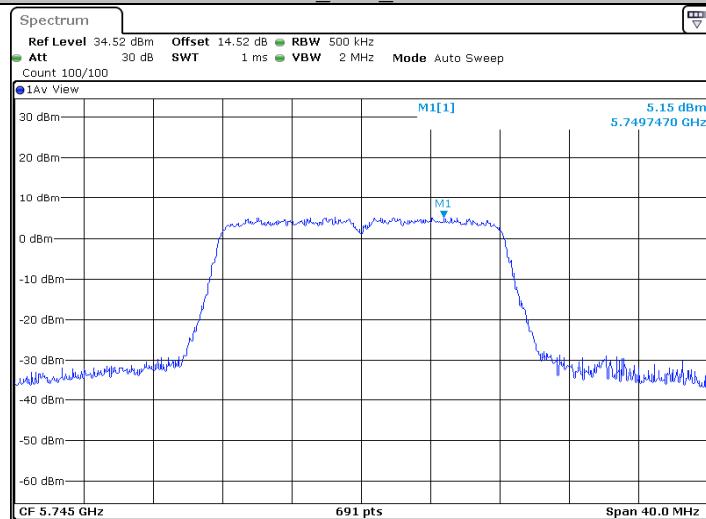
4.4 Measured data of Power Spectrum Density test results

5725 MHz ~ 5850 MHz

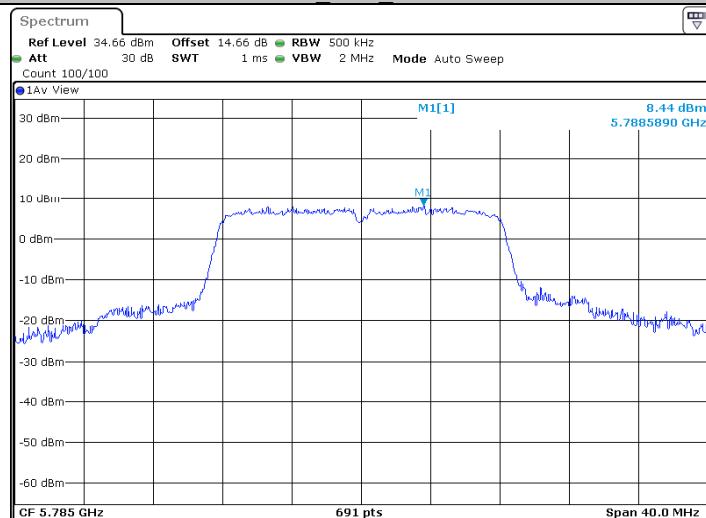
| Test Mode | Antenna | Channel | Result | Limit | Verdict |
|------------|---------|---------|--------|-------|---------|
| 11A | Ant1 | 5745 | 6.76 | <=30 | PASS |
| | Ant2 | 5745 | 5.15 | <=30 | PASS |
| | Ant1 | 5785 | 8.44 | <=30 | PASS |
| | Ant2 | 5785 | 4.24 | <=30 | PASS |
| | Ant1 | 5825 | 5.77 | <=30 | PASS |
| | Ant2 | 5825 | 5.19 | <=30 | PASS |
| 11N20SISO | Ant1 | 5745 | 6.13 | <=30 | PASS |
| | Ant2 | 5745 | 4.01 | <=30 | PASS |
| | Ant1 | 5785 | 3.11 | <=30 | PASS |
| | Ant2 | 5785 | 2.3 | <=30 | PASS |
| | Ant1 | 5825 | 3.47 | <=30 | PASS |
| | Ant2 | 5825 | 3.31 | <=30 | PASS |
| 11N40SISO | Ant1 | 5755 | 3.57 | <=30 | PASS |
| | Ant2 | 5755 | 2.96 | <=30 | PASS |
| | Ant1 | 5795 | -0.08 | <=30 | PASS |
| | Ant2 | 5795 | 1.06 | <=30 | PASS |
| 11AC20SISO | Ant1 | 5745 | 5.94 | <=30 | PASS |
| | Ant2 | 5745 | 4.5 | <=30 | PASS |
| | Ant1 | 5785 | 3.28 | <=30 | PASS |
| | Ant2 | 5785 | 2.5 | <=30 | PASS |
| | Ant1 | 5825 | 3.26 | <=30 | PASS |
| | Ant2 | 5825 | 5.13 | <=30 | PASS |
| 11AC40SISO | Ant1 | 5755 | 4.04 | <=30 | PASS |
| | Ant2 | 5755 | 2.67 | <=30 | PASS |
| | Ant1 | 5795 | 1.48 | <=30 | PASS |
| | Ant2 | 5795 | 0.95 | <=30 | PASS |
| 11AC80SISO | Ant1 | 5775 | -1.05 | <=30 | PASS |
| | Ant2 | 5775 | -0.02 | <=30 | PASS |

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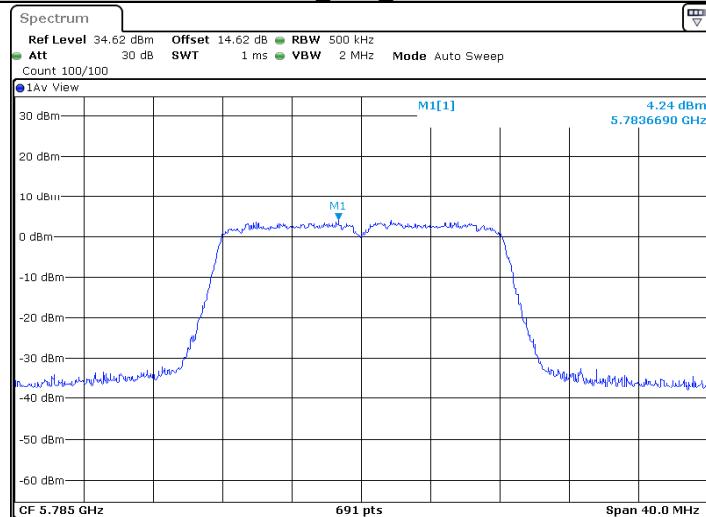
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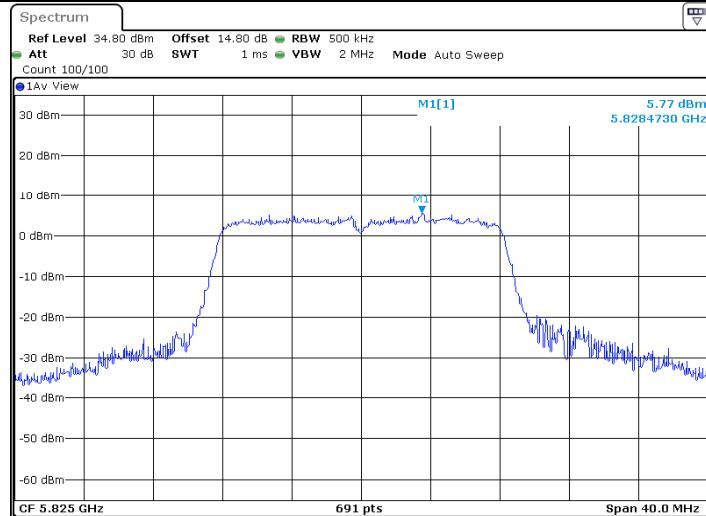
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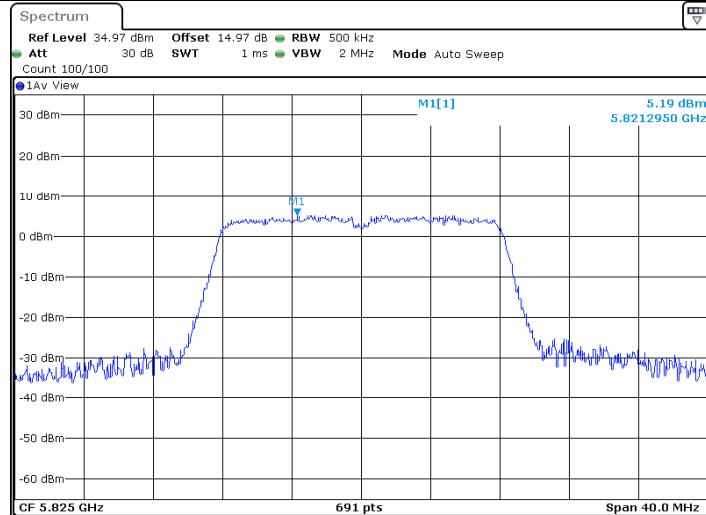
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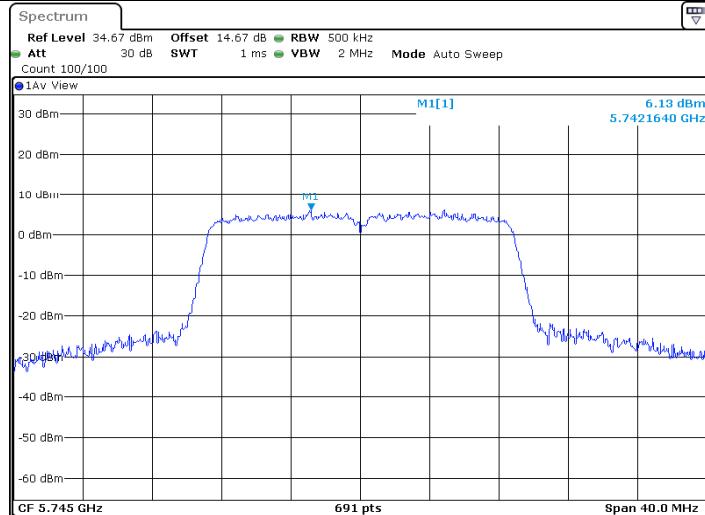
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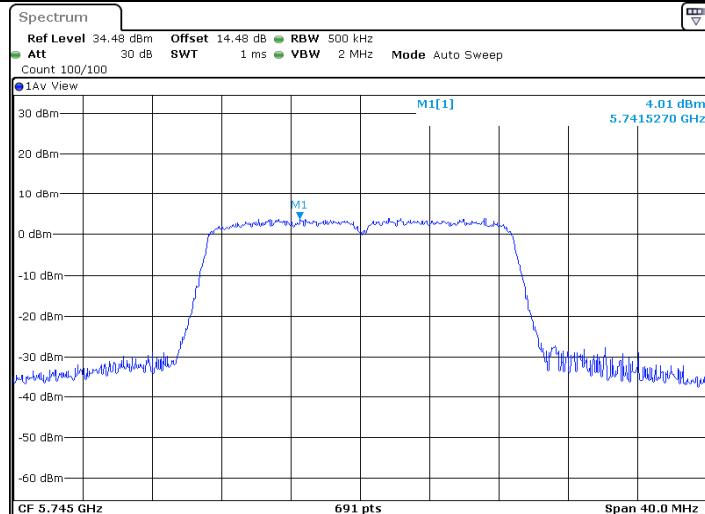
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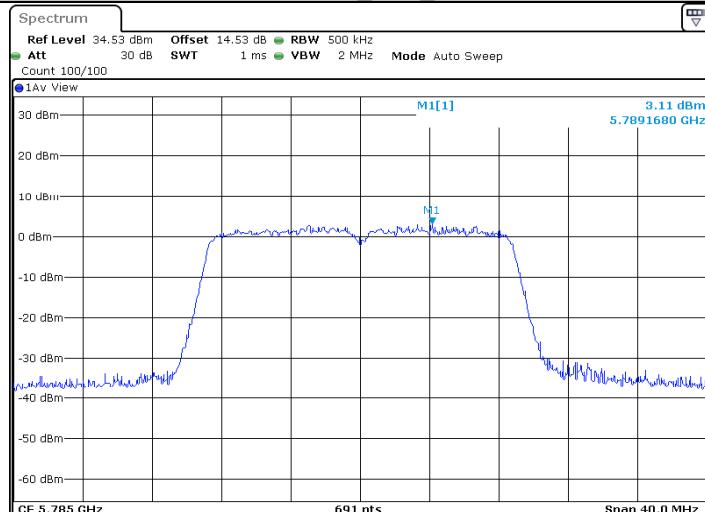
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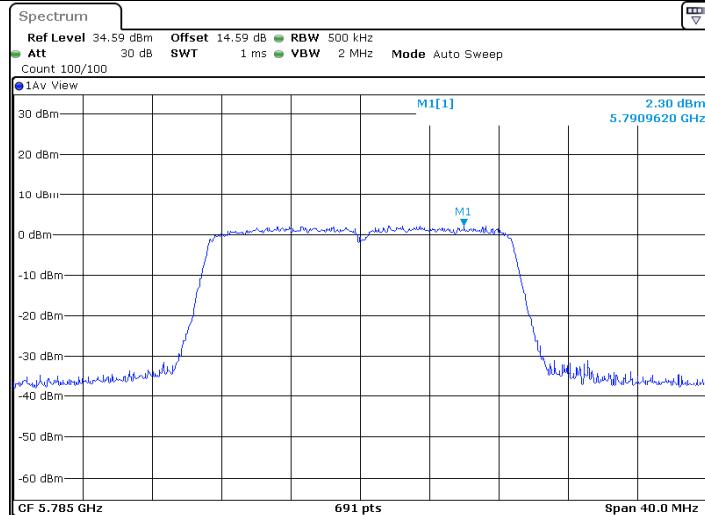
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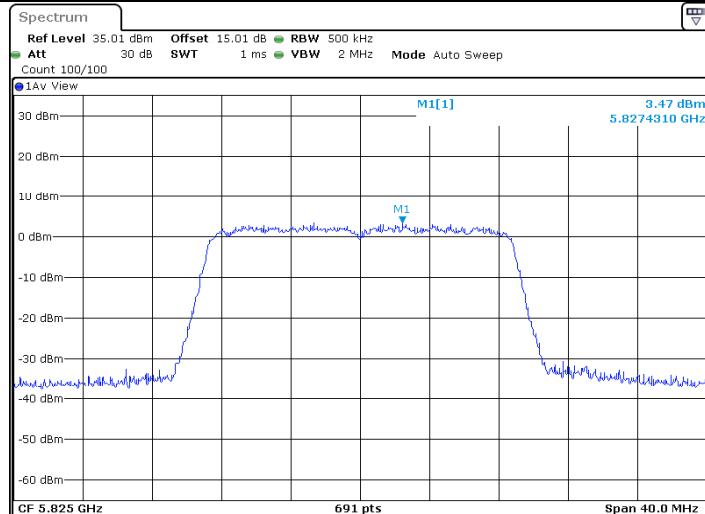
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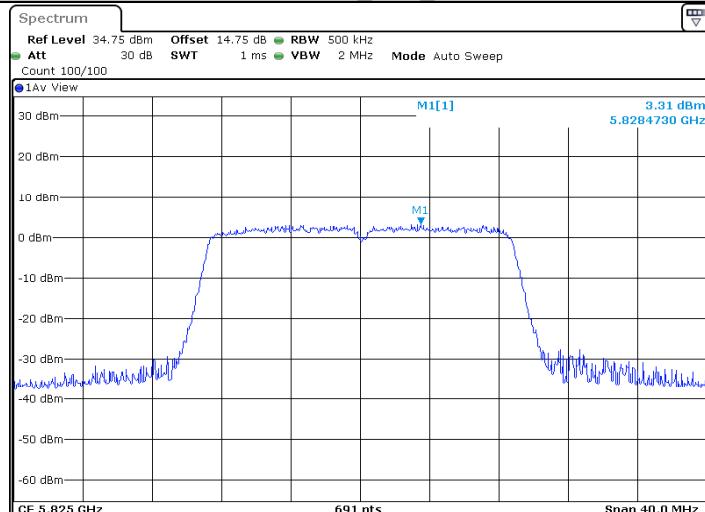
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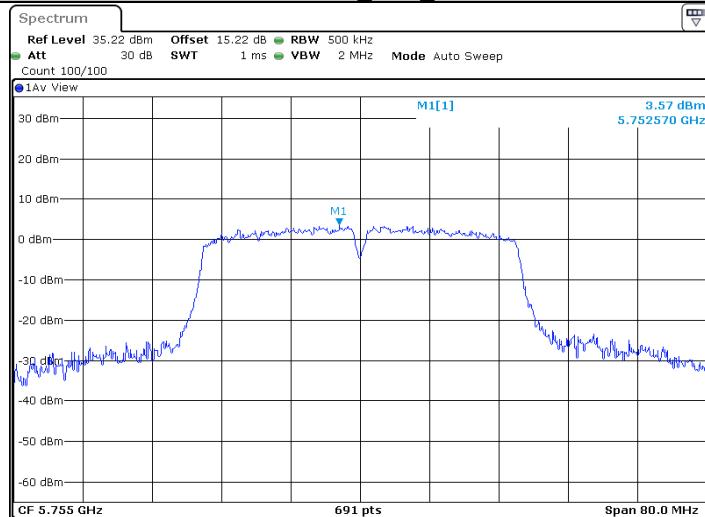
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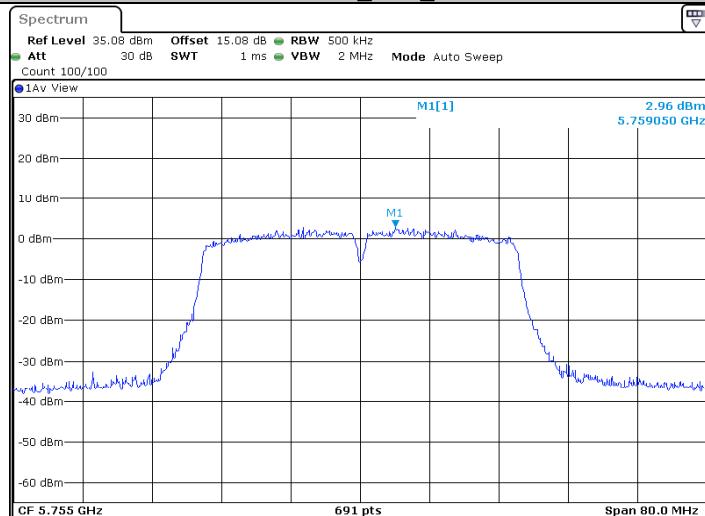
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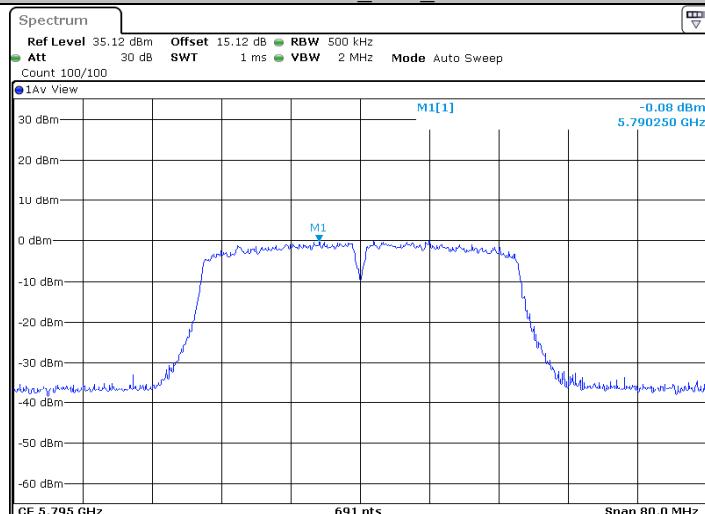
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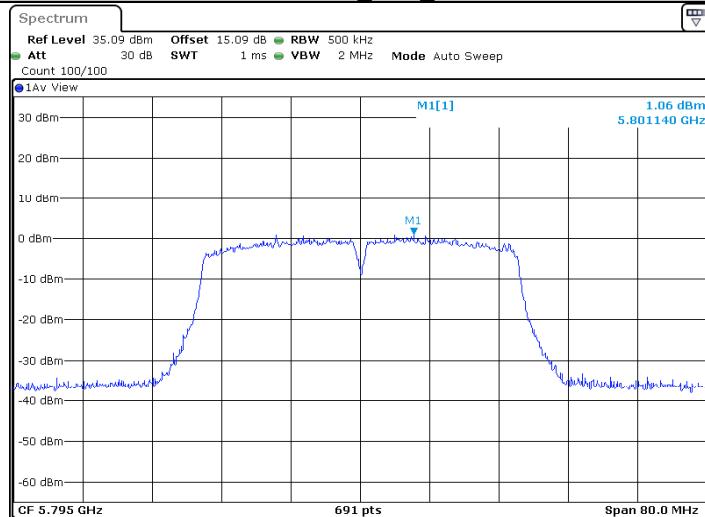
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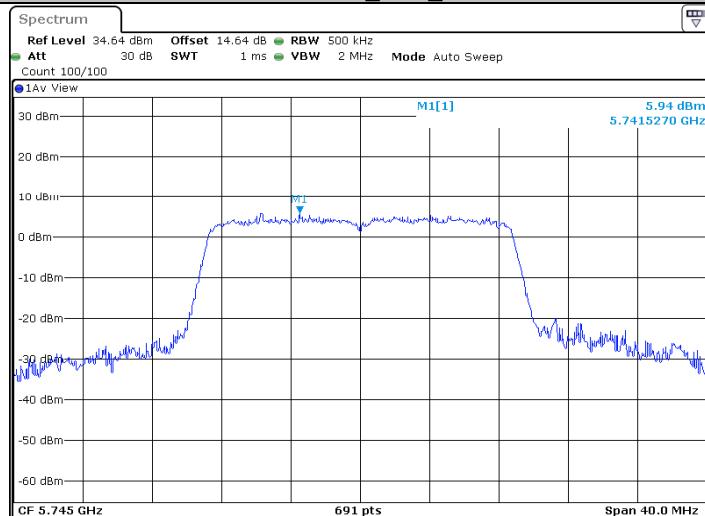
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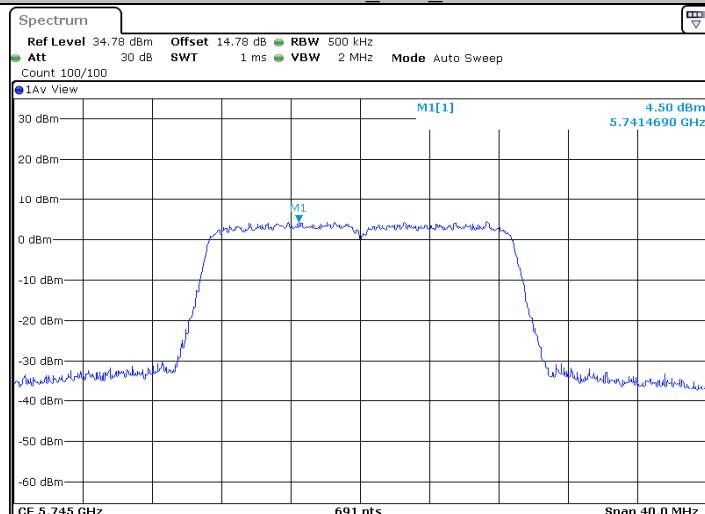
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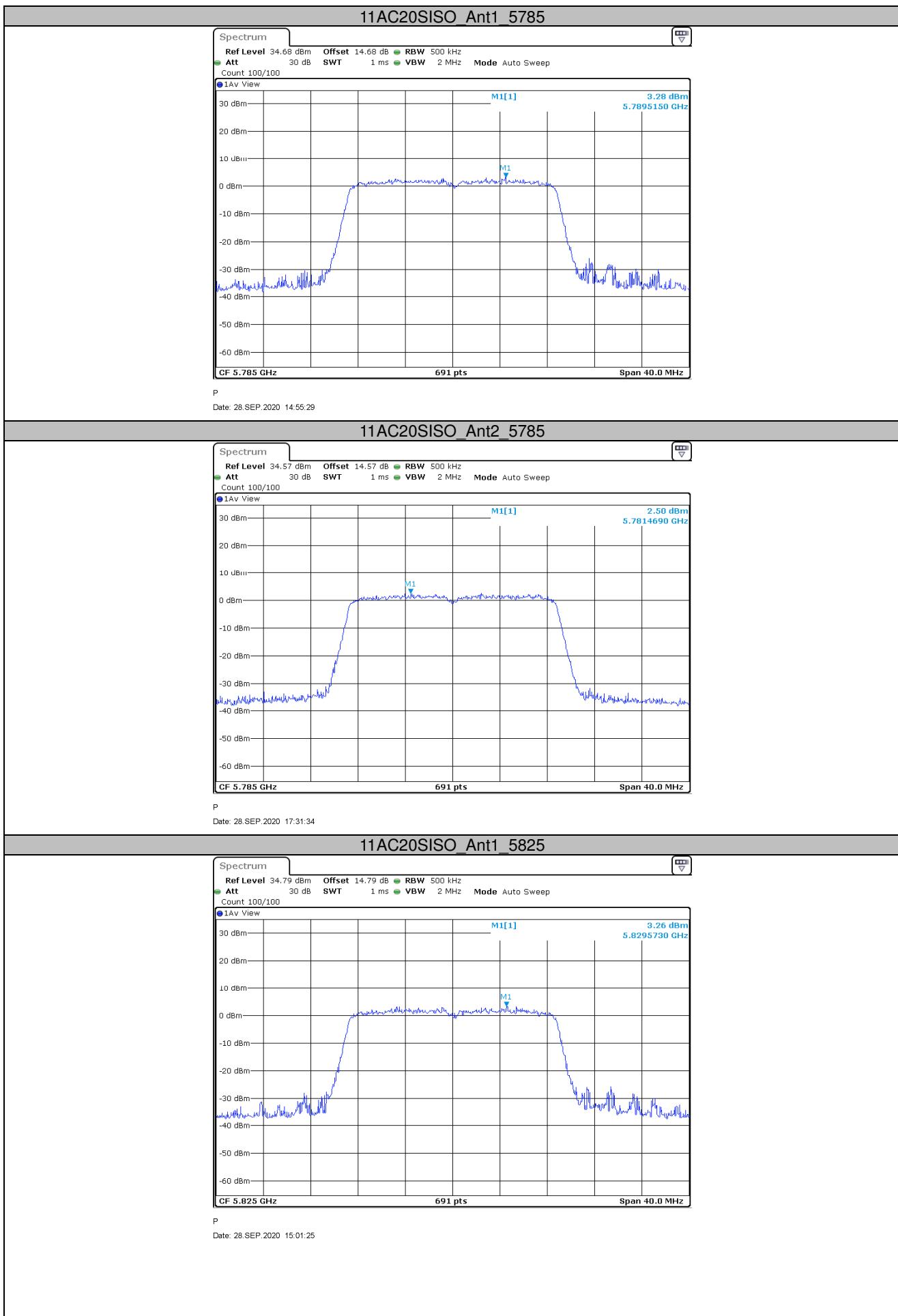
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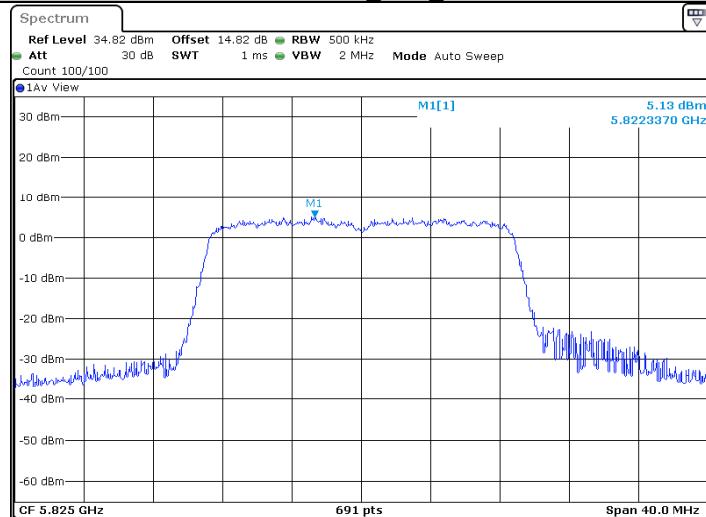
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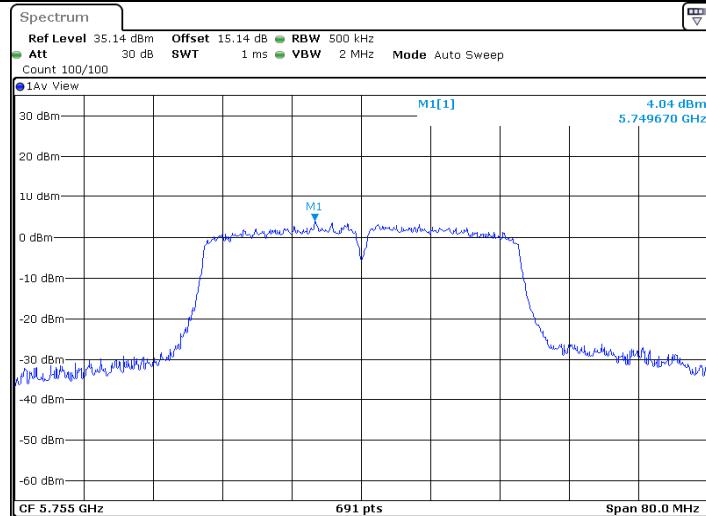
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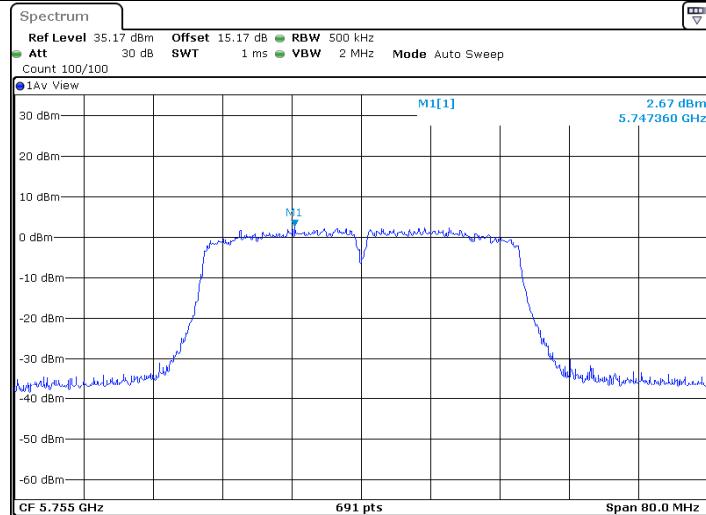


11AC20SISO_Ant2 5825


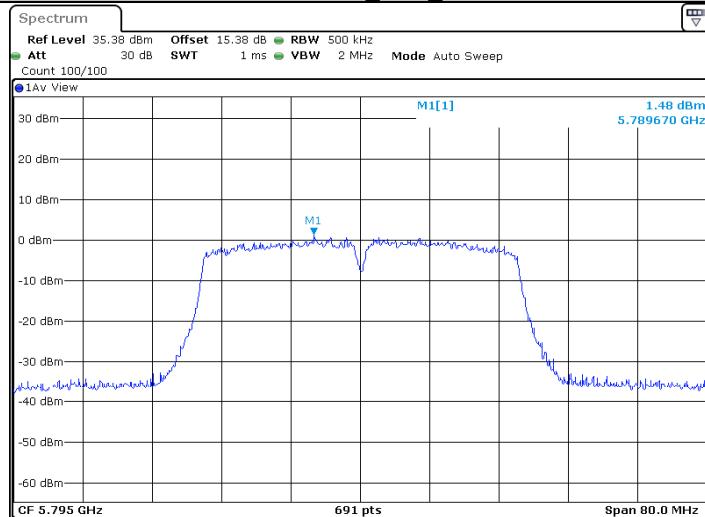
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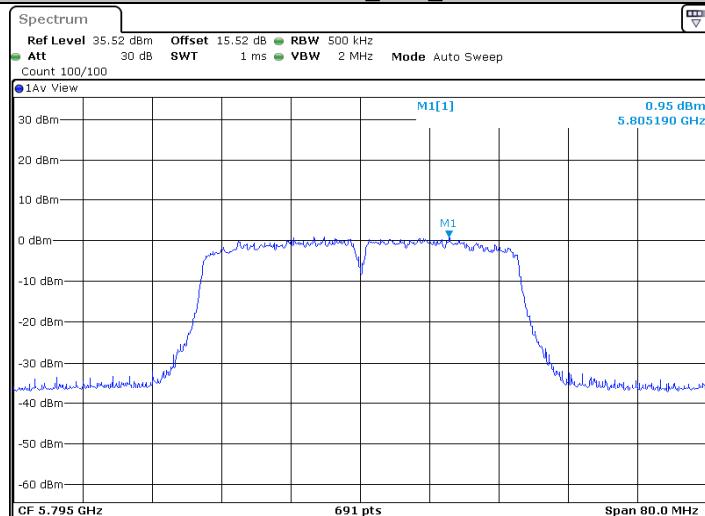
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Date: 28 SEP 2020 15:07:19

11AC40SISO_Ant2 5755


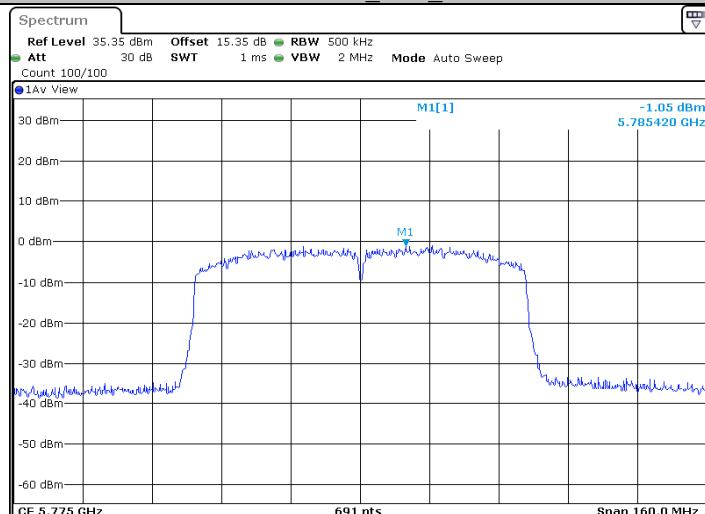
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Date: 28 SEP 2020 17:57:13

11AC40SISO_Ant1 5795


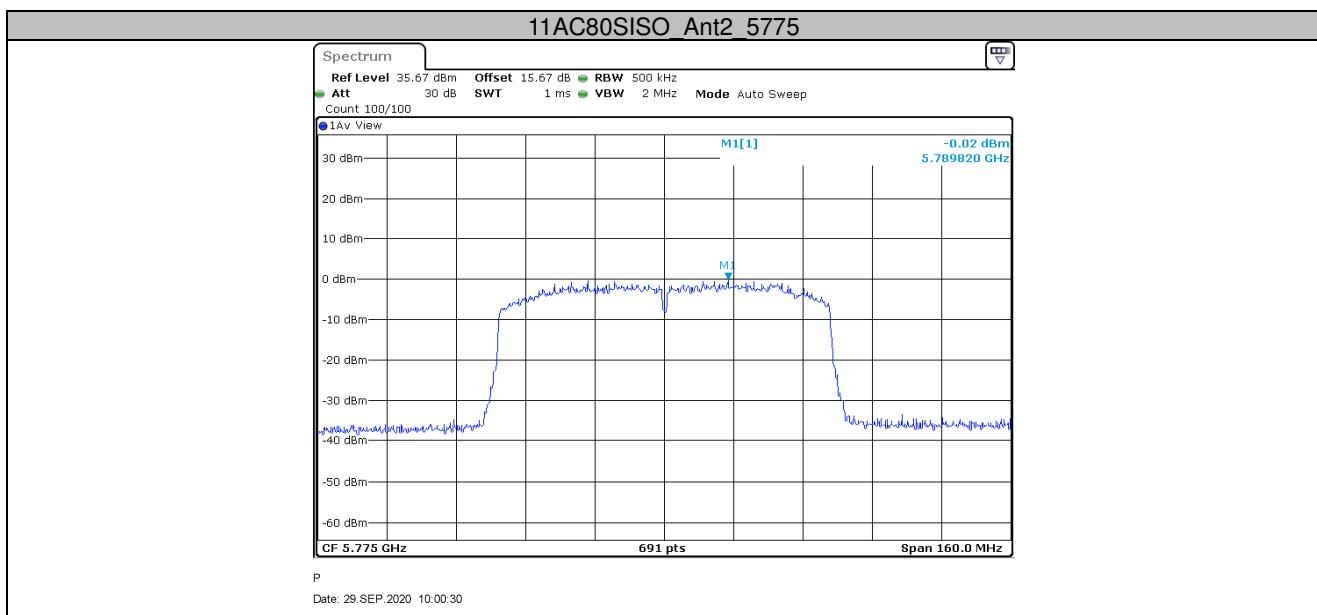
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Date: 28 SEP 2020 15:12:45

11AC40SISO_Ant2 5795


P
Date: 28 SEP 2020 18:03:25

11AC80SISO_Ant1 5775


P
Date: 28 SEP 2020 15:18:46



5. Minimum 6 dB RF Bandwidth (FCC 15.407)**5.1 Operating environment**

Temperature: 25 °C
Relative Humidity: 50 %
Atmospheric Pressure: 1011 hPa

5.2 Test setup & procedure

The Minimum 6 dB RF Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set at 100KHz, and set the video bandwidth (VBW) $\geq 3 \times$ RBW. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

For 26dB down Emission Bandwidth

The 26dB down Emission Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set RBW = approximately 1% of the emission bandwidth. Set the VBW $>$ RBW, Detector = Peak, Trace mode = max hold (Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%).

For 99% Occupied Bandwidth

The 99% Occupied Bandwidth per 789033 D02 was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer with the resolution bandwidth set center frequency to the nominal EUT channel center frequency, set span = 1.5 times to 5.0 times the OBW, set RBW = 1 % to 5 % of the OBW, set VBW $\geq 3 \times$ RBW, The 99% occupied bandwidth was determined from where the channel output spectrum intersected the display line.

5.3 Limit

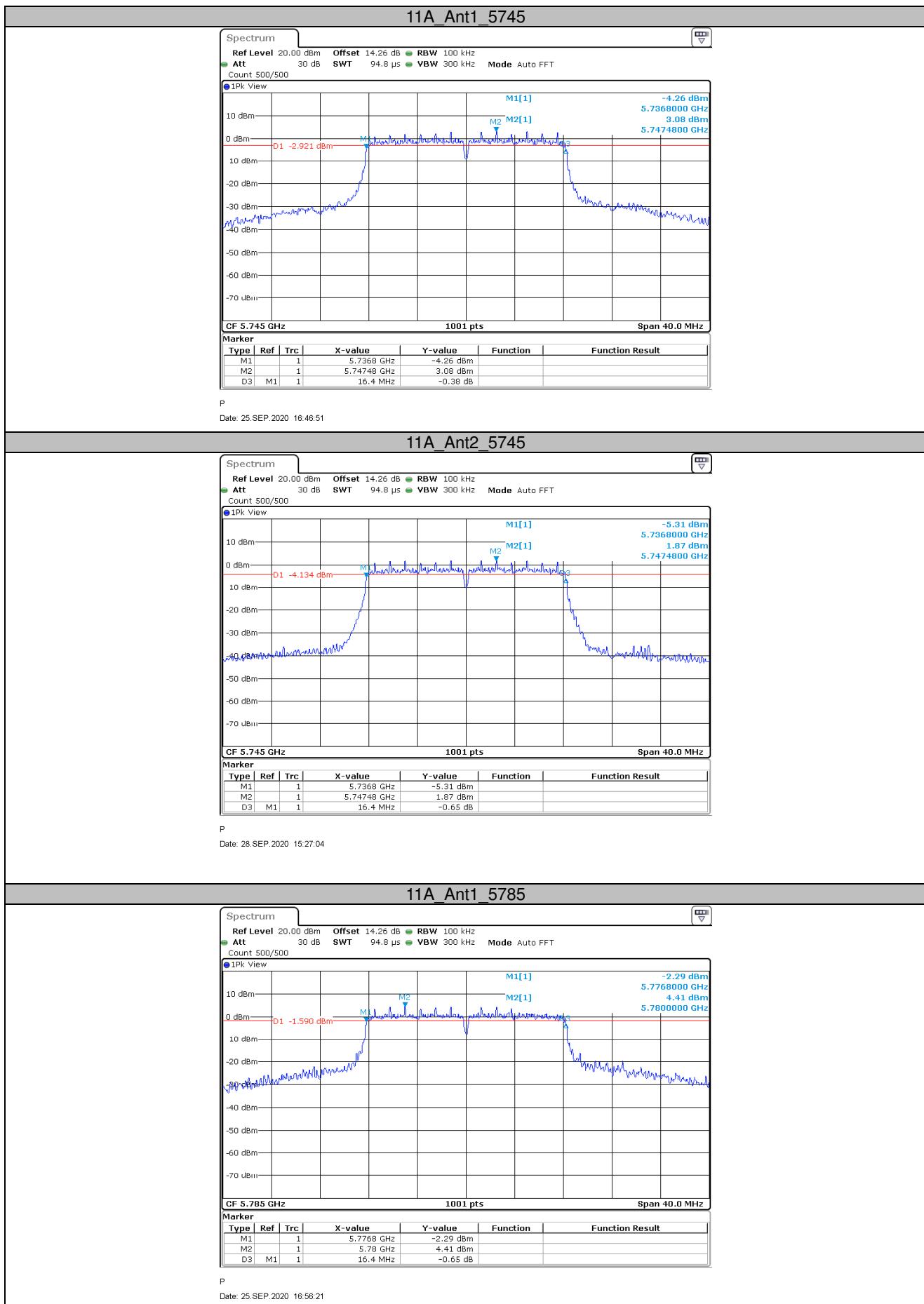
| Operating Frequency (MHz) | Minimum 6 dB RF Bandwidth Limit |
|---------------------------|---------------------------------|
| 5725~ 5850 | $\geq 500\text{KHz}$ |

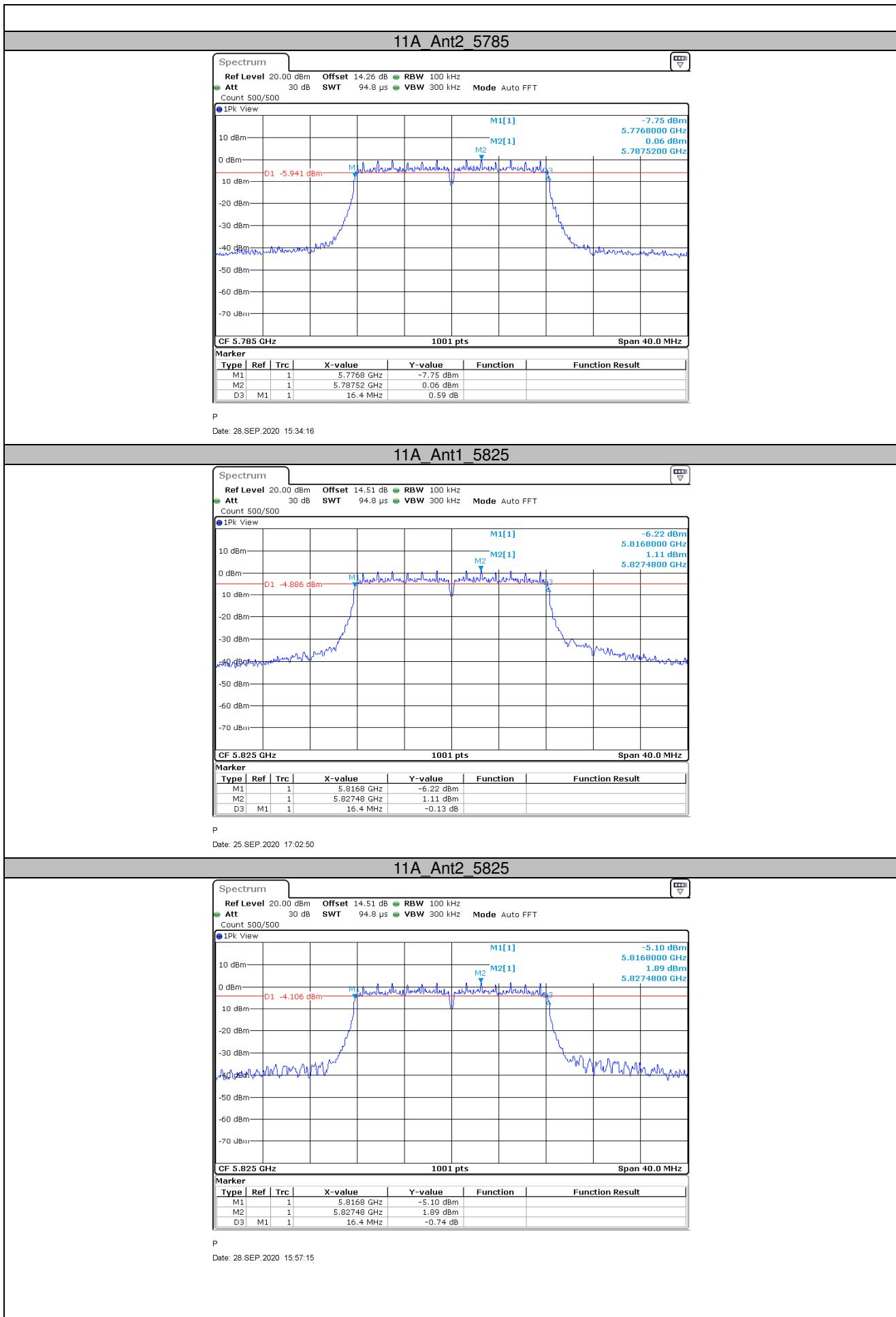
Note: 99% Occupied Bandwidth within the U-NII-1 band and 26dB Emission Bandwidth for reference. The plots are attached as below: "26dB OBW" and "99% OBW"

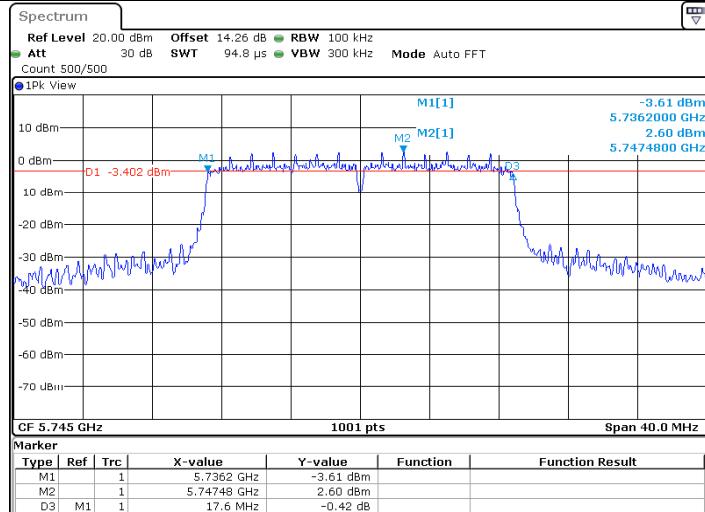
5.4 Measured data of 6dB down Emission Bandwidth test results

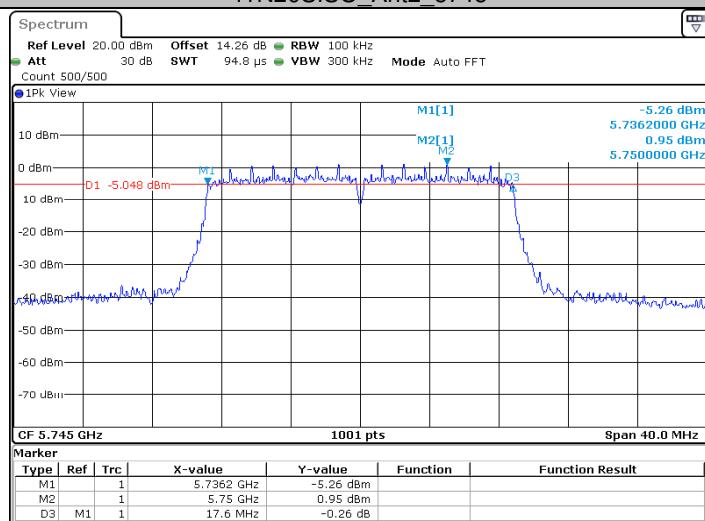
| Test Mode | Antenna | Channel | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|---------|---------------|----------|----------|------------|---------|
| 11A | Ant1 | 5745 | 16.400 | 5736.800 | 5753.200 | 0.5 | PASS |
| | Ant2 | 5745 | 16.400 | 5736.800 | 5753.200 | 0.5 | PASS |
| | Ant1 | 5785 | 16.400 | 5776.800 | 5793.200 | 0.5 | PASS |
| | Ant2 | 5785 | 16.400 | 5776.800 | 5793.200 | 0.5 | PASS |
| | Ant1 | 5825 | 16.400 | 5816.800 | 5833.200 | 0.5 | PASS |
| | Ant2 | 5825 | 16.400 | 5816.800 | 5833.200 | 0.5 | PASS |
| 11N20SISO | Ant1 | 5745 | 17.600 | 5736.200 | 5753.800 | 0.5 | PASS |
| | Ant2 | 5745 | 17.600 | 5736.200 | 5753.800 | 0.5 | PASS |
| | Ant1 | 5785 | 17.600 | 5776.200 | 5793.800 | 0.5 | PASS |
| | Ant2 | 5785 | 17.360 | 5776.440 | 5793.800 | 0.5 | PASS |
| | Ant1 | 5825 | 17.600 | 5816.200 | 5833.800 | 0.5 | PASS |
| | Ant2 | 5825 | 17.600 | 5816.200 | 5833.800 | 0.5 | PASS |
| 11N40SISO | Ant1 | 5755 | 35.280 | 5737.400 | 5772.680 | 0.5 | PASS |
| | Ant2 | 5755 | 35.280 | 5737.400 | 5772.680 | 0.5 | PASS |
| | Ant1 | 5795 | 35.280 | 5777.400 | 5812.680 | 0.5 | PASS |
| | Ant2 | 5795 | 35.280 | 5777.400 | 5812.680 | 0.5 | PASS |
| 11AC20SISO | Ant1 | 5745 | 17.600 | 5736.200 | 5753.800 | 0.5 | PASS |
| | Ant2 | 5745 | 17.600 | 5736.200 | 5753.800 | 0.5 | PASS |
| | Ant1 | 5785 | 17.600 | 5776.200 | 5793.800 | 0.5 | PASS |
| | Ant2 | 5785 | 17.600 | 5776.200 | 5793.800 | 0.5 | PASS |
| | Ant1 | 5825 | 17.640 | 5816.200 | 5833.840 | 0.5 | PASS |
| | Ant2 | 5825 | 17.600 | 5816.200 | 5833.800 | 0.5 | PASS |
| 11AC40SISO | Ant1 | 5755 | 35.280 | 5737.400 | 5772.680 | 0.5 | PASS |
| | Ant2 | 5755 | 35.280 | 5737.400 | 5772.680 | 0.5 | PASS |
| | Ant1 | 5795 | 35.280 | 5777.400 | 5812.680 | 0.5 | PASS |
| | Ant2 | 5795 | 35.280 | 5777.400 | 5812.680 | 0.5 | PASS |
| 11AC80SISO | Ant1 | 5775 | 75.520 | 5737.240 | 5812.760 | 0.5 | PASS |
| | Ant2 | 5775 | 72.960 | 5737.240 | 5810.200 | 0.5 | PASS |

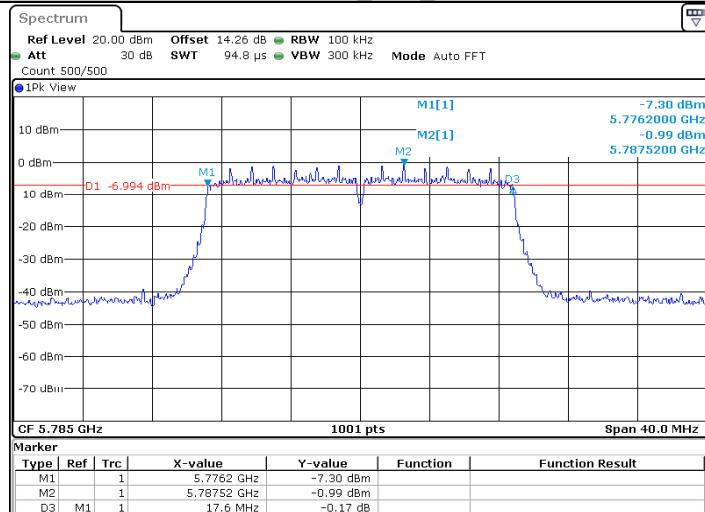
The test plots are attached as below.

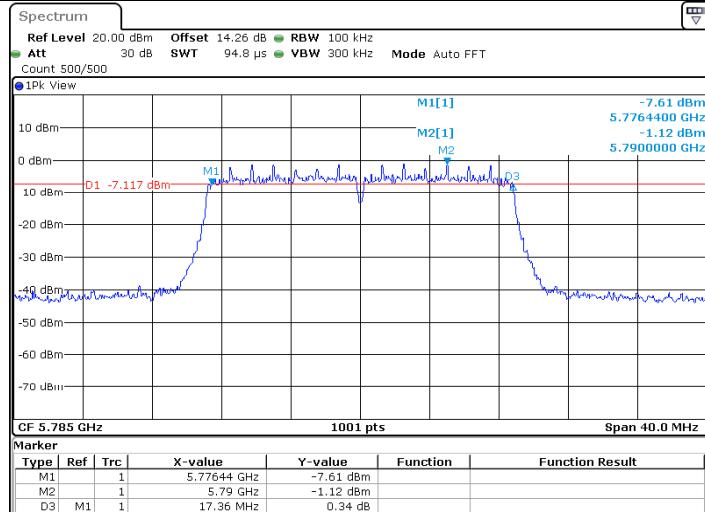


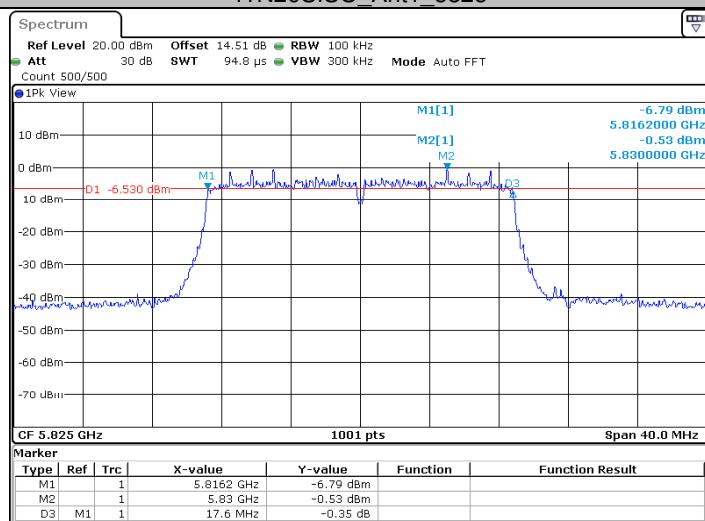


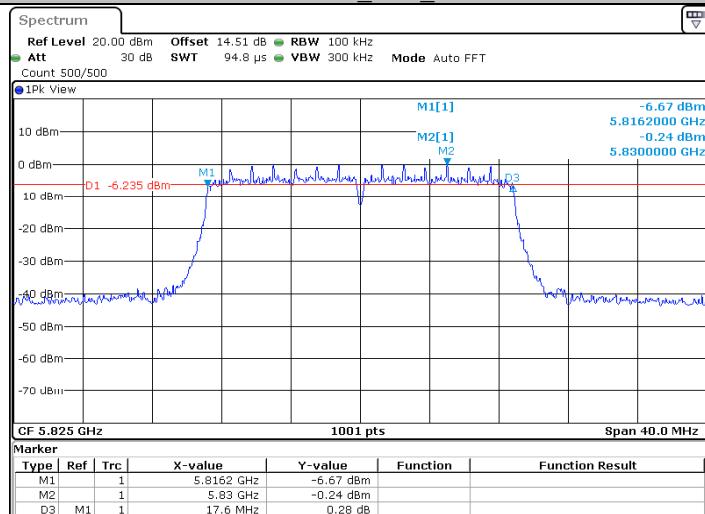
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Date: 28 SEP 2020 12:16:32

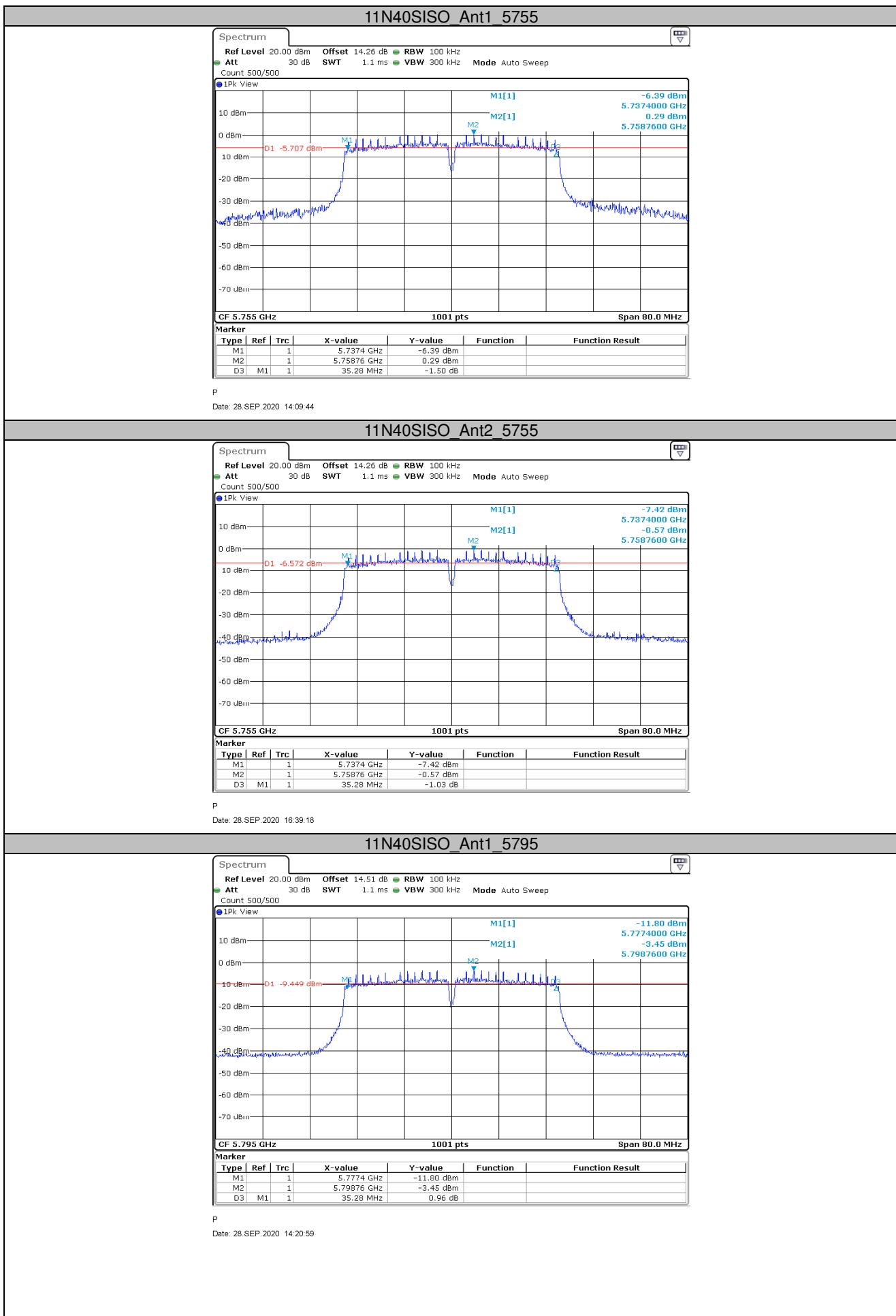
11N20SISO_Ant2_5745

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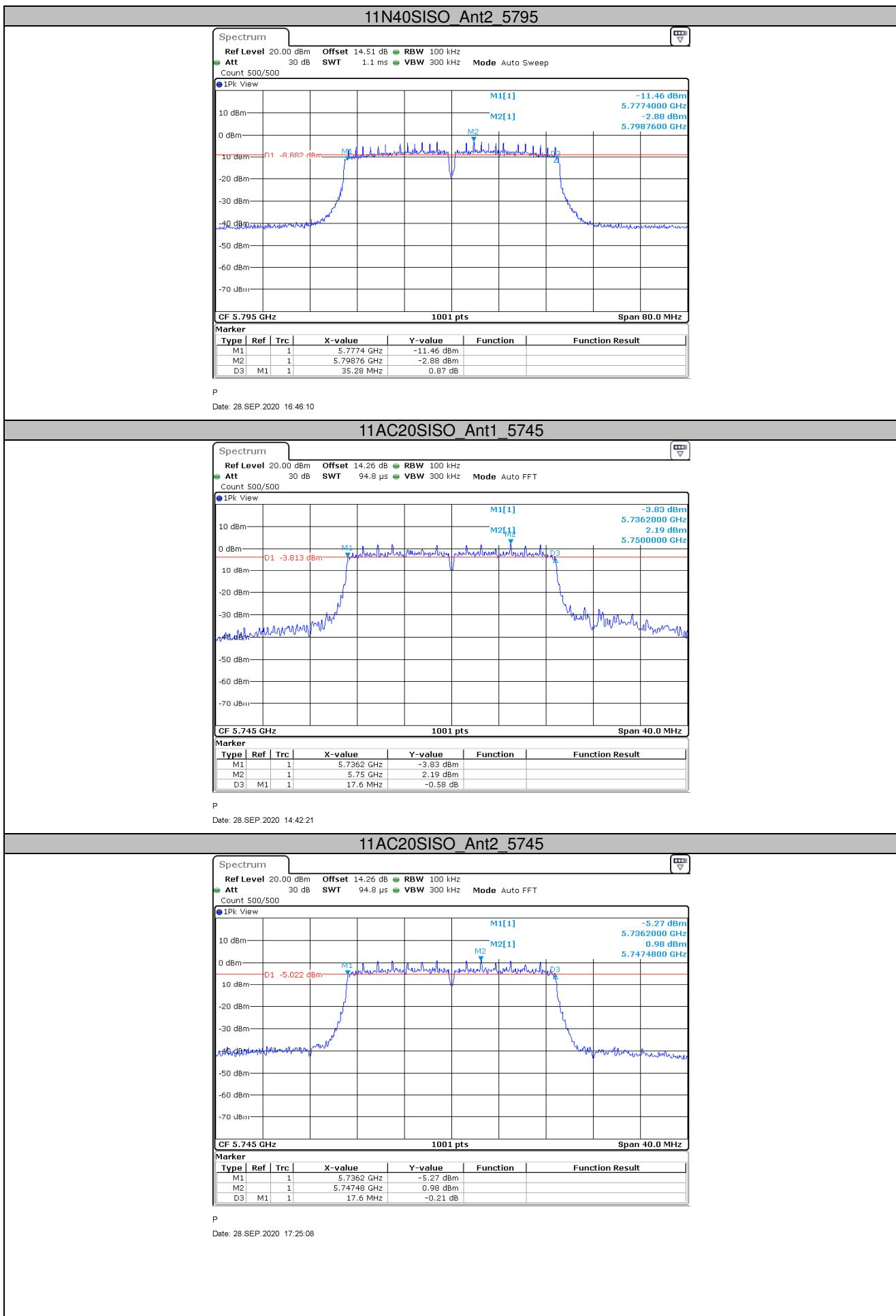
11N20SISO_Ant1_5785

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Date: 28 SEP 2020 12:23:46

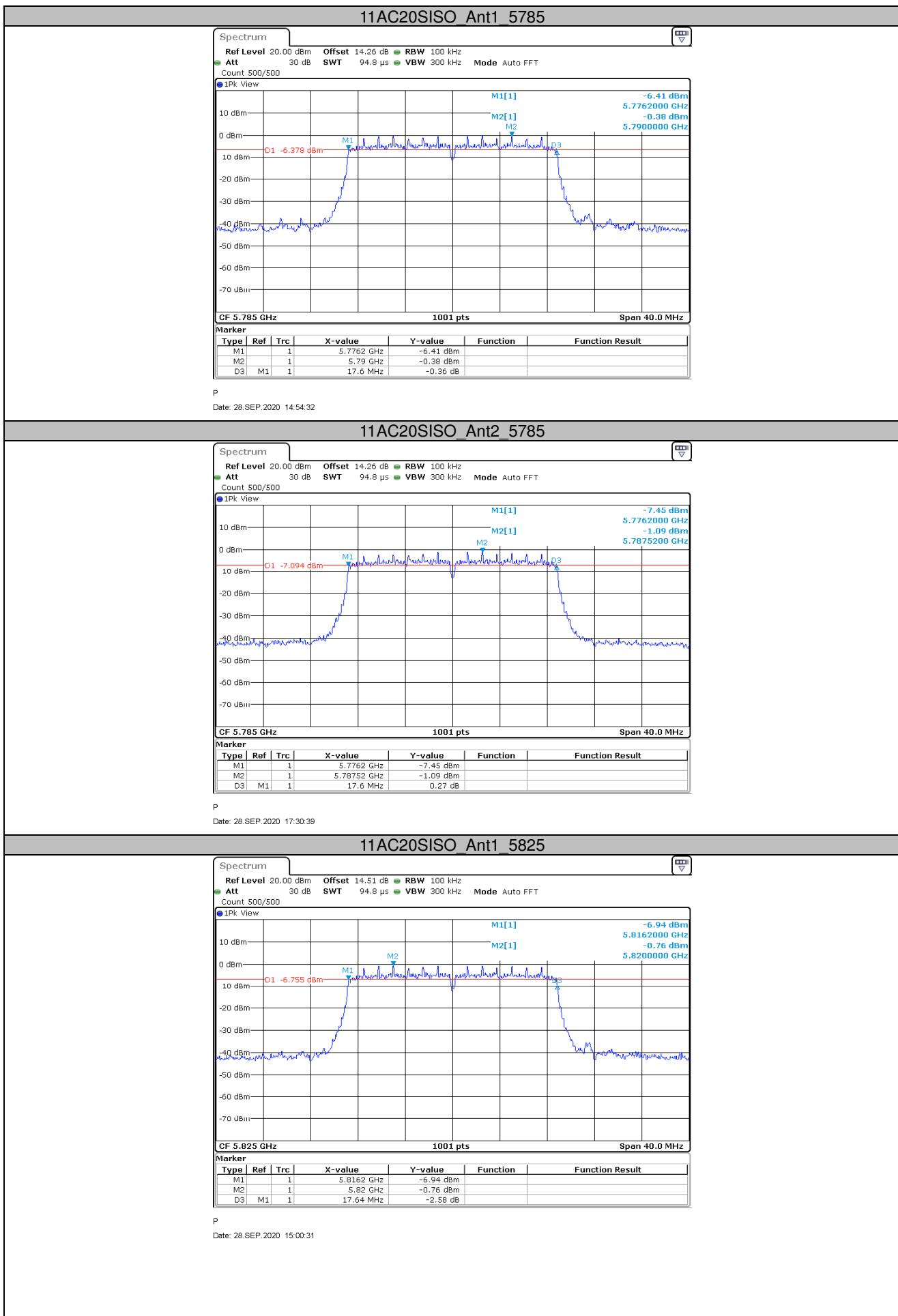
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Date: 28 SEP 2020 16:11:26

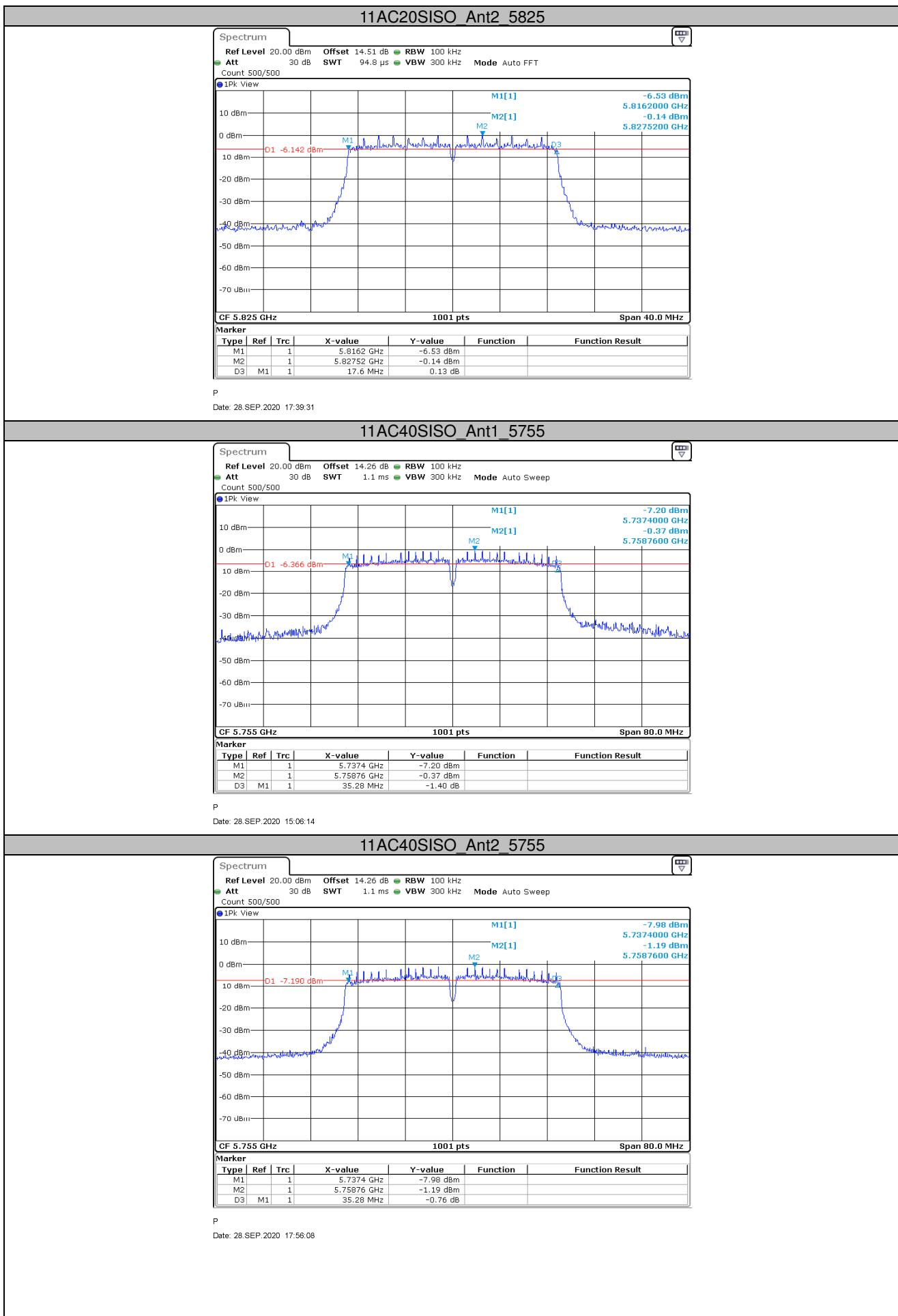
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Date: 28 SEP 2020 13:49:25

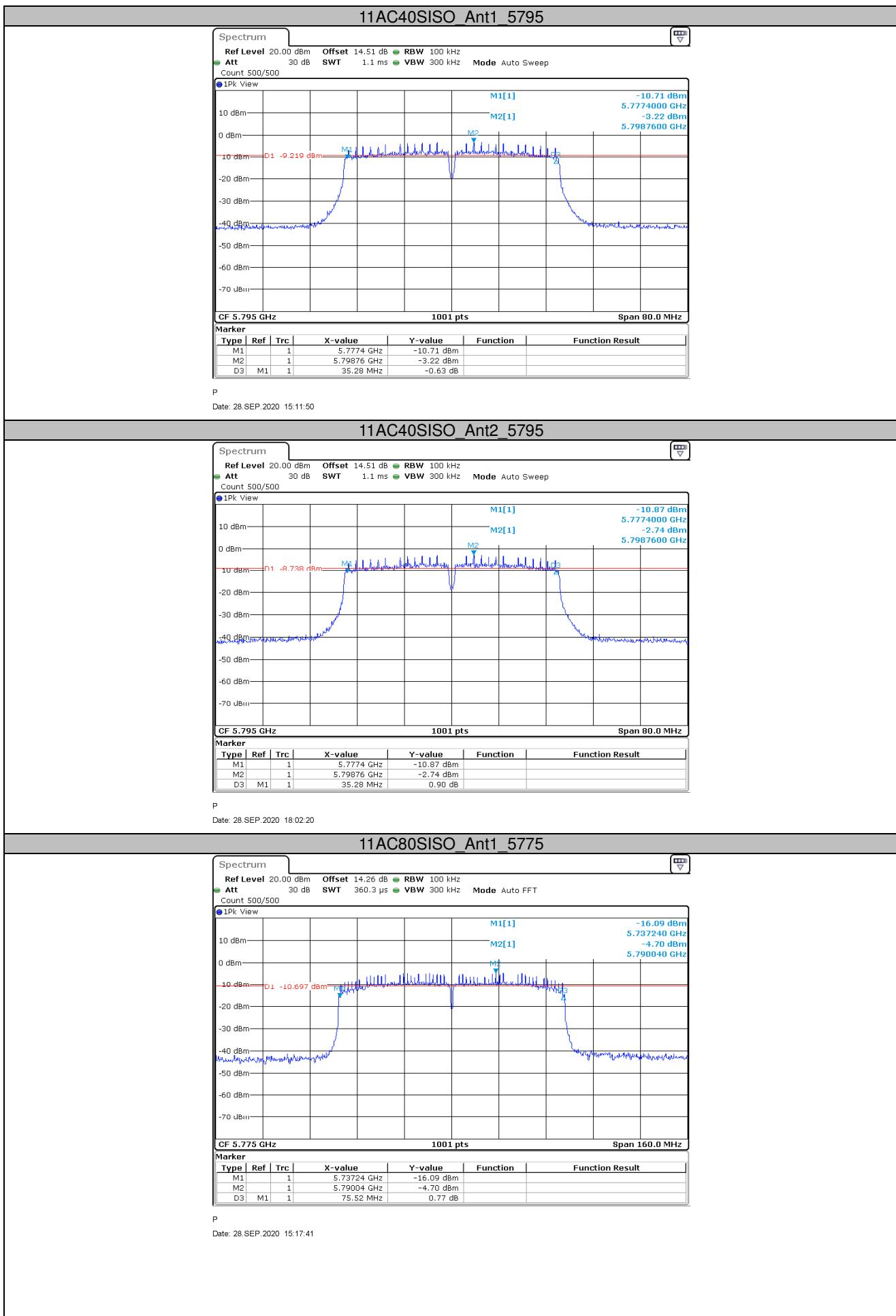
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Date: 28 SEP 2020 16:17:29

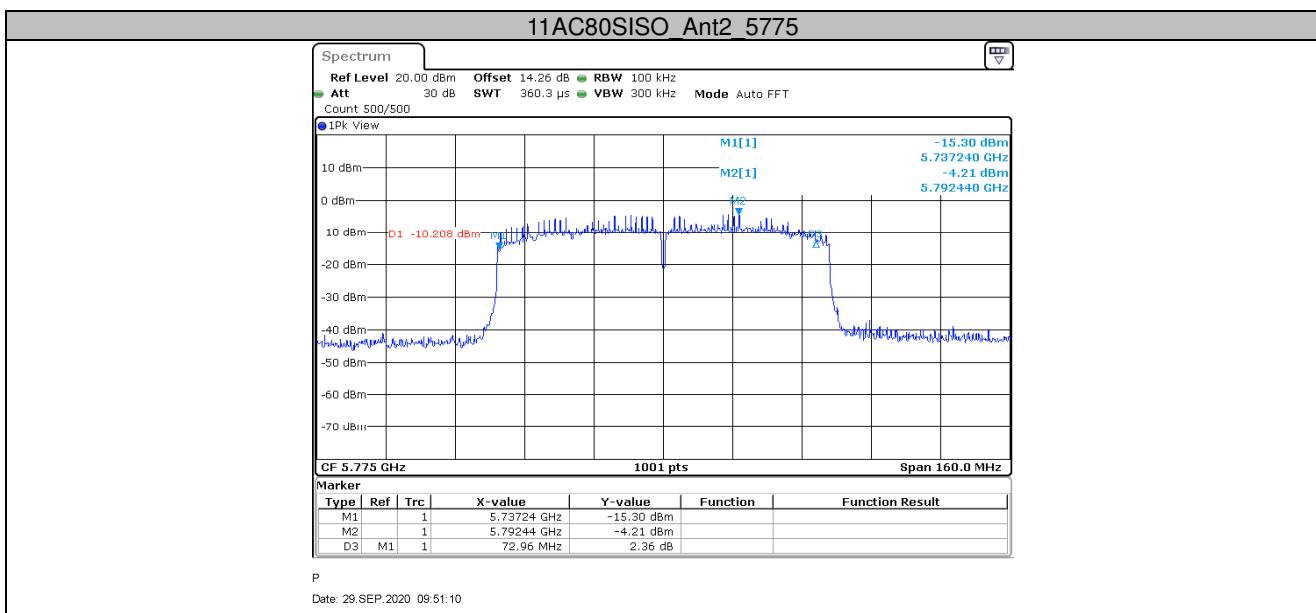






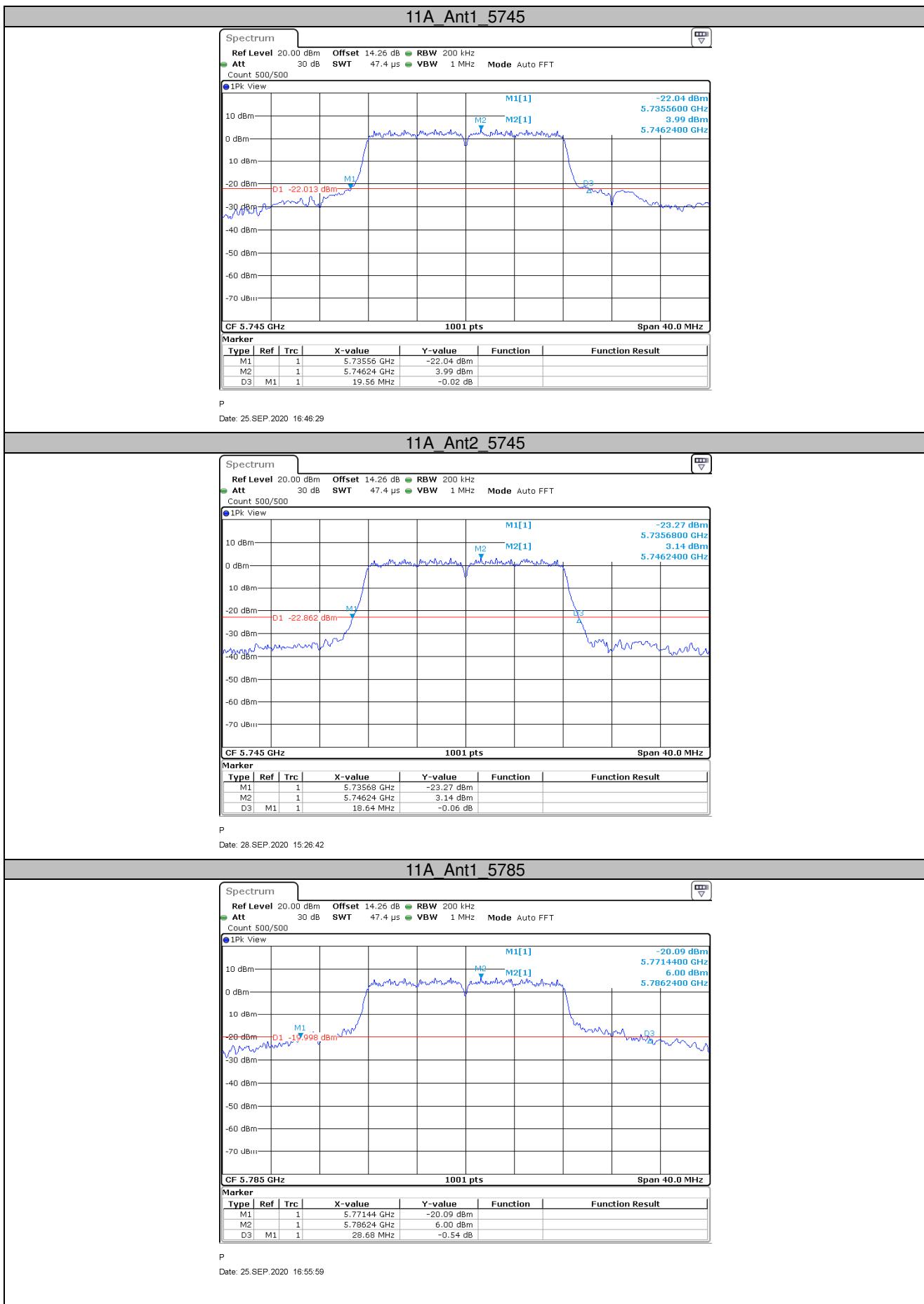


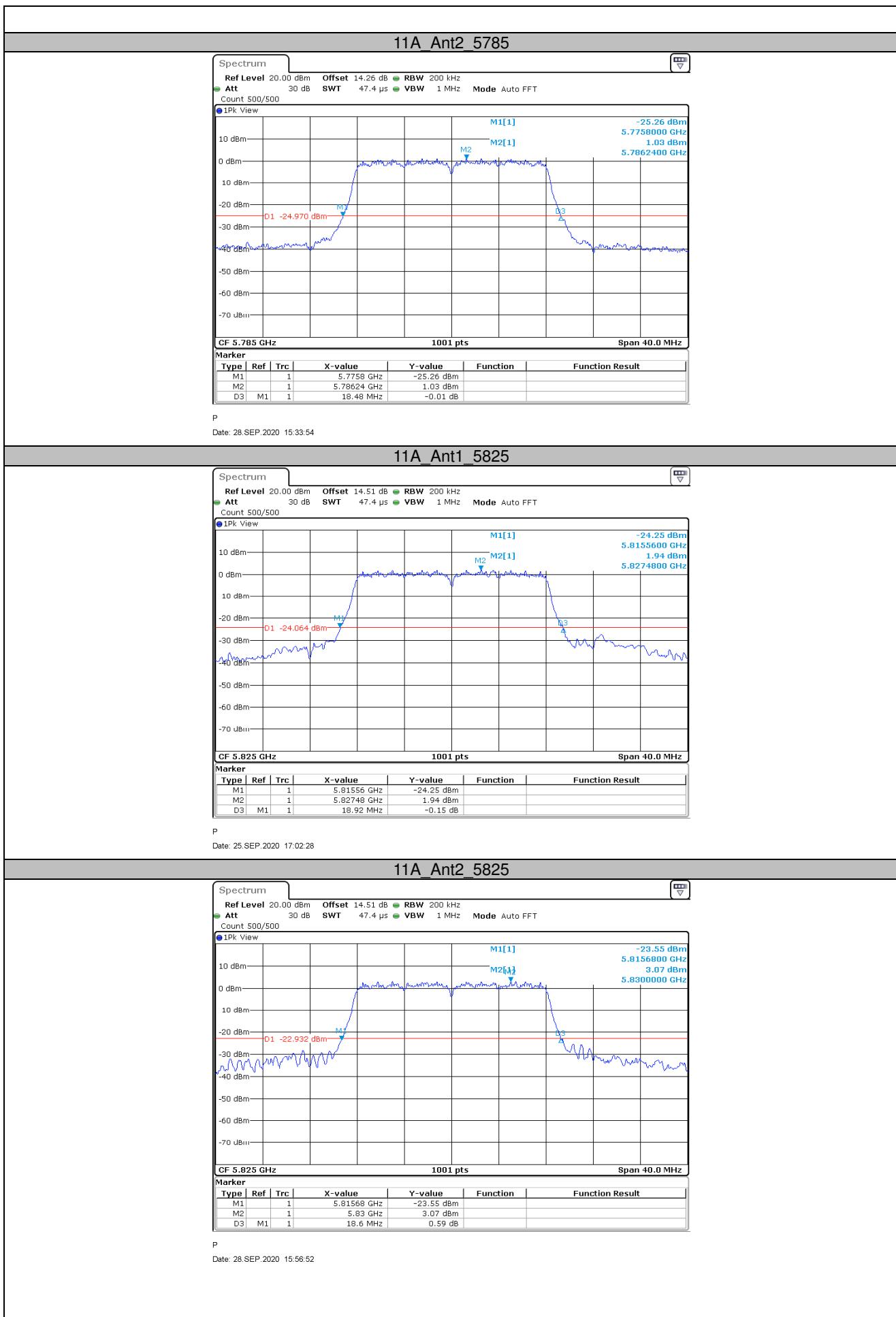


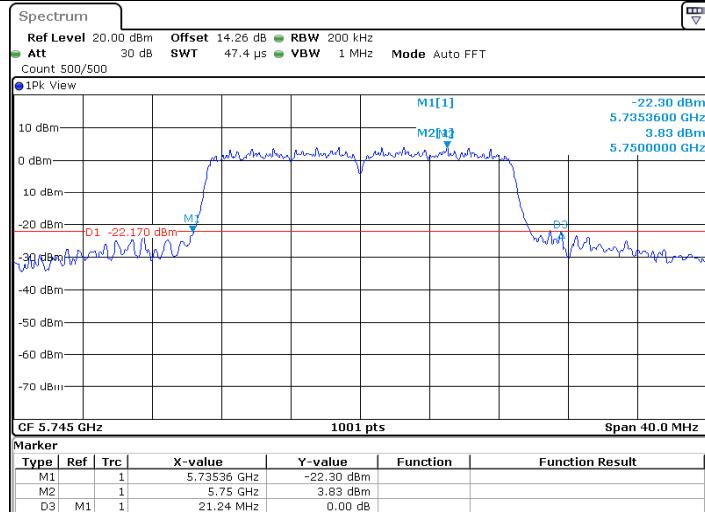


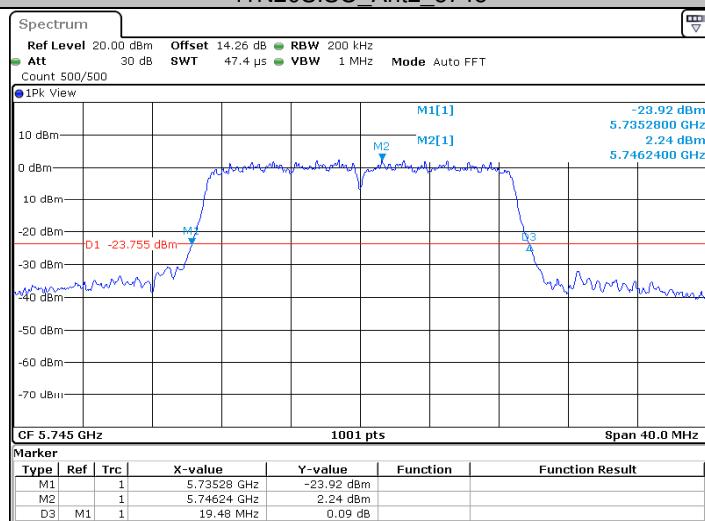
26dB OBW

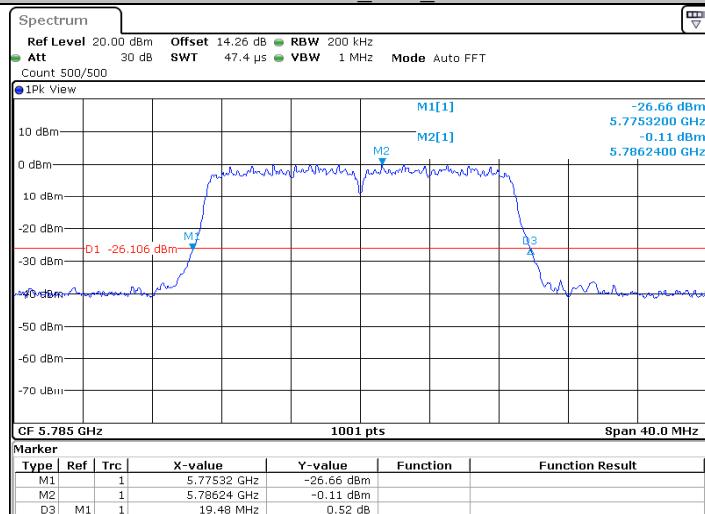
| Test Mode | Antenna | Channel | 26dB EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|---------|----------------|----------|----------|------------|---------|
| 11A | Ant1 | 5745 | 19.560 | 5735.560 | 5755.120 | --- | PASS |
| | Ant2 | 5745 | 18.640 | 5735.680 | 5754.320 | --- | PASS |
| | Ant1 | 5785 | 28.680 | 5771.440 | 5800.120 | --- | PASS |
| | Ant2 | 5785 | 18.480 | 5775.800 | 5794.280 | --- | PASS |
| | Ant1 | 5825 | 18.920 | 5815.560 | 5834.480 | --- | PASS |
| | Ant2 | 5825 | 18.600 | 5815.680 | 5834.280 | --- | PASS |
| 11N20SISO | Ant1 | 5745 | 21.240 | 5735.360 | 5756.600 | --- | PASS |
| | Ant2 | 5745 | 19.480 | 5735.280 | 5754.760 | --- | PASS |
| | Ant1 | 5785 | 19.480 | 5775.320 | 5794.800 | --- | PASS |
| | Ant2 | 5785 | 19.440 | 5775.280 | 5794.720 | --- | PASS |
| | Ant1 | 5825 | 19.480 | 5815.240 | 5834.720 | --- | PASS |
| | Ant2 | 5825 | 19.440 | 5815.280 | 5834.720 | --- | PASS |
| 11N40SISO | Ant1 | 5755 | 51.840 | 5732.360 | 5784.200 | --- | PASS |
| | Ant2 | 5755 | 41.840 | 5734.120 | 5775.960 | --- | PASS |
| | Ant1 | 5795 | 42.240 | 5774.120 | 5816.360 | --- | PASS |
| | Ant2 | 5795 | 42.160 | 5774.120 | 5816.280 | --- | PASS |
| 11AC20SISO | Ant1 | 5745 | 19.520 | 5735.240 | 5754.760 | --- | PASS |
| | Ant2 | 5745 | 19.520 | 5735.240 | 5754.760 | --- | PASS |
| | Ant1 | 5785 | 19.480 | 5775.280 | 5794.760 | --- | PASS |
| | Ant2 | 5785 | 19.400 | 5775.360 | 5794.760 | --- | PASS |
| | Ant1 | 5825 | 19.440 | 5815.280 | 5834.720 | --- | PASS |
| | Ant2 | 5825 | 19.480 | 5815.240 | 5834.720 | --- | PASS |
| 11AC40SISO | Ant1 | 5755 | 41.600 | 5734.520 | 5776.120 | --- | PASS |
| | Ant2 | 5755 | 41.680 | 5734.440 | 5776.120 | --- | PASS |
| | Ant1 | 5795 | 41.920 | 5774.200 | 5816.120 | --- | PASS |
| | Ant2 | 5795 | 42.240 | 5774.200 | 5816.440 | --- | PASS |
| 11AC80SISO | Ant1 | 5775 | 82.400 | 5734.040 | 5816.440 | --- | PASS |
| | Ant2 | 5775 | 82.720 | 5734.040 | 5816.760 | --- | PASS |

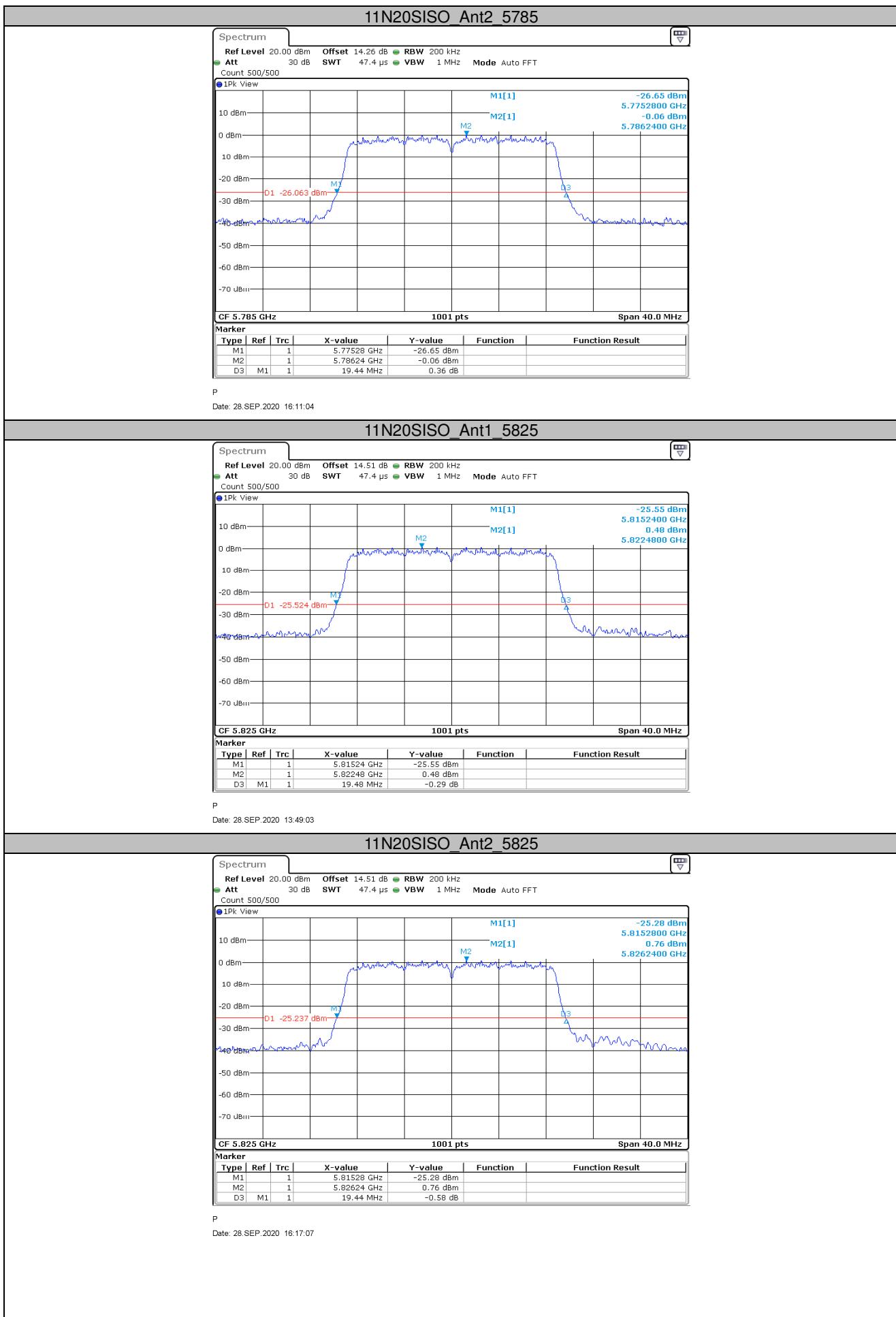


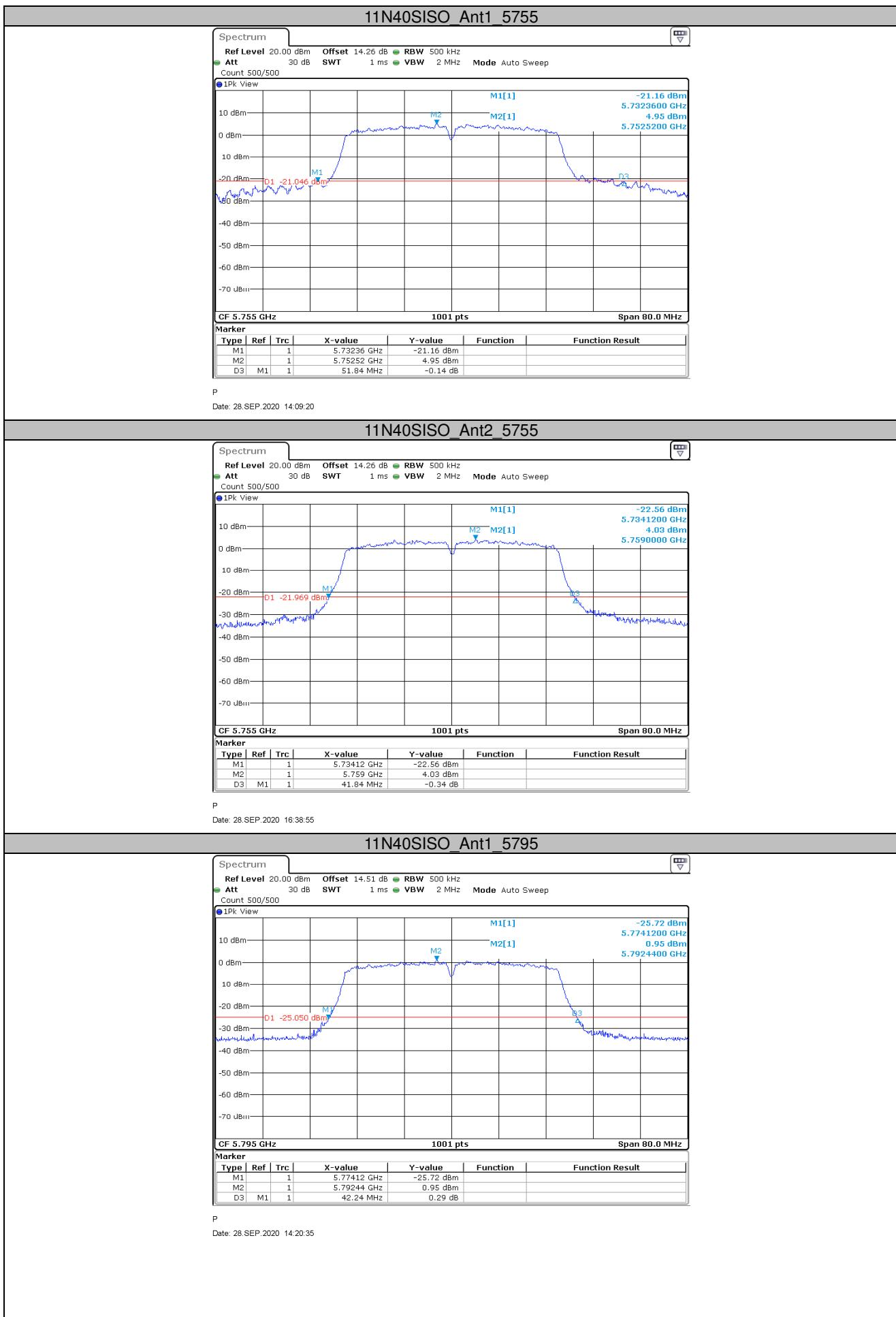


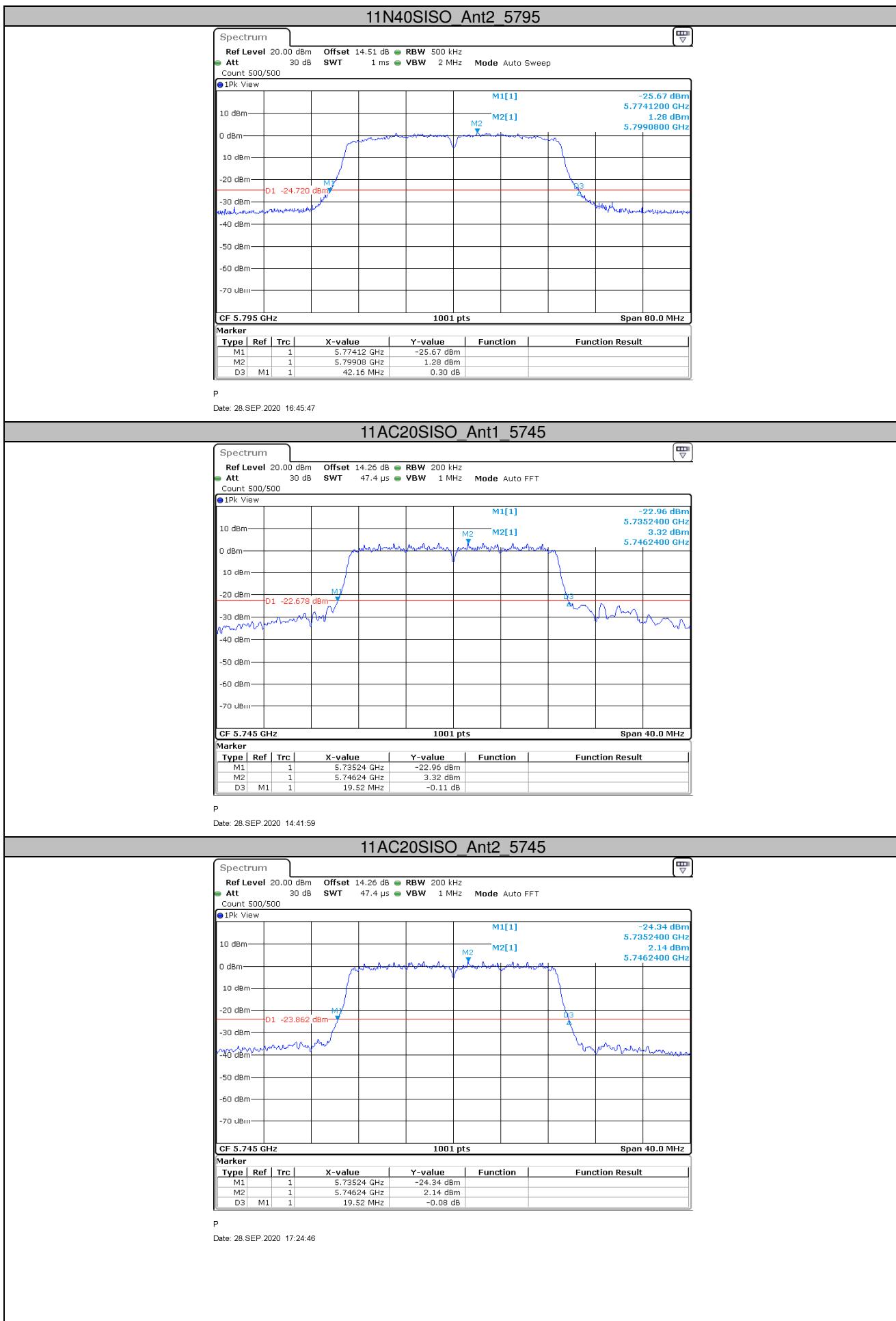
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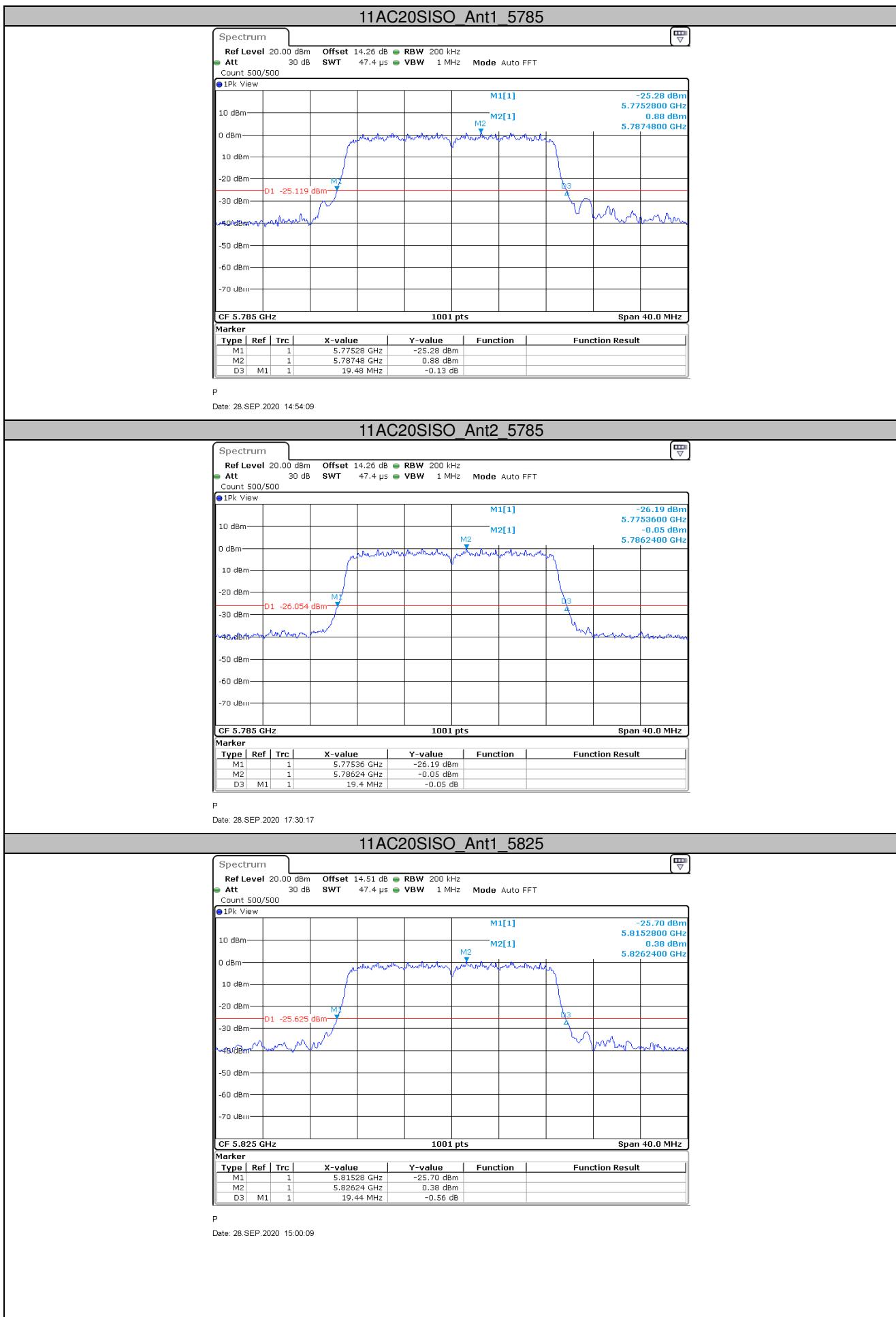
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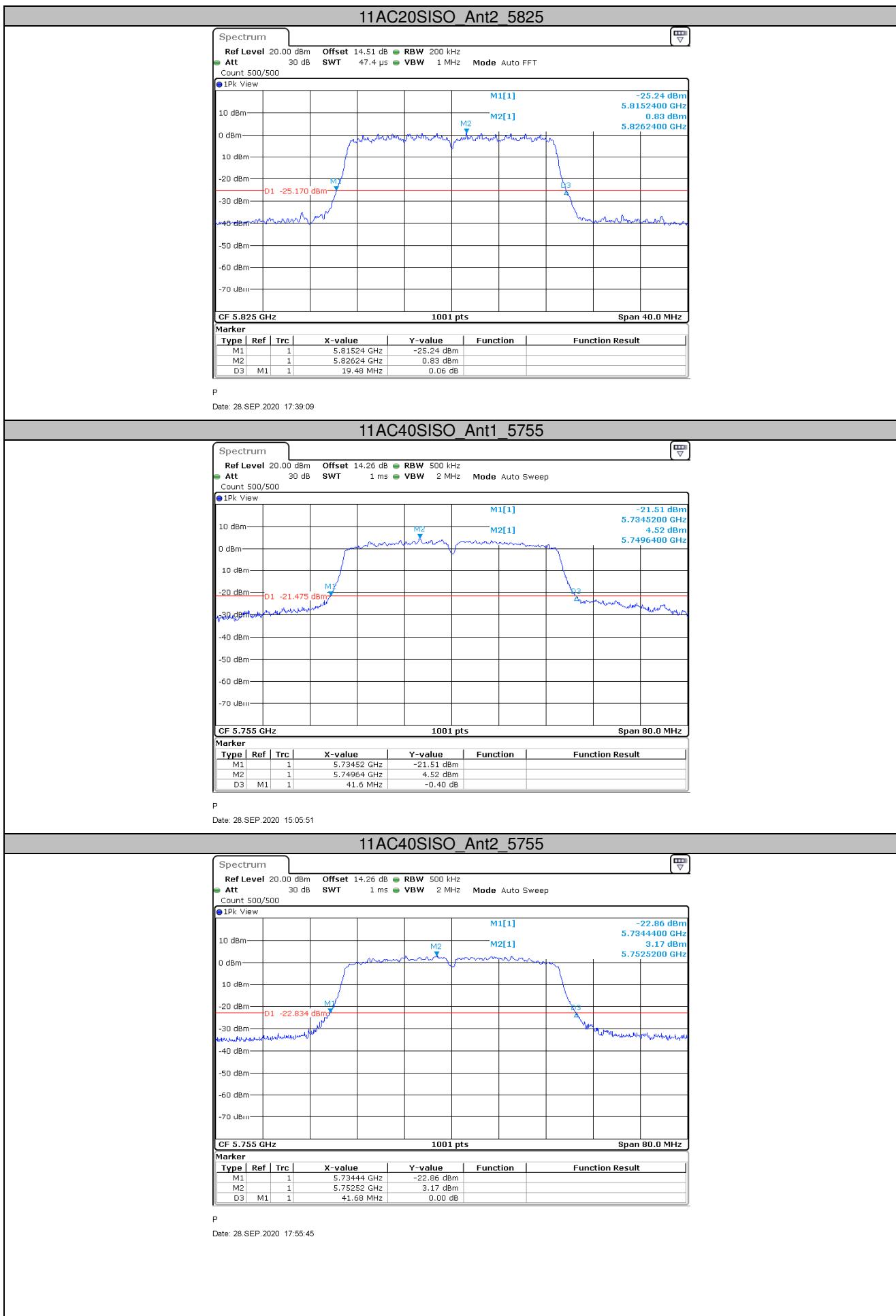
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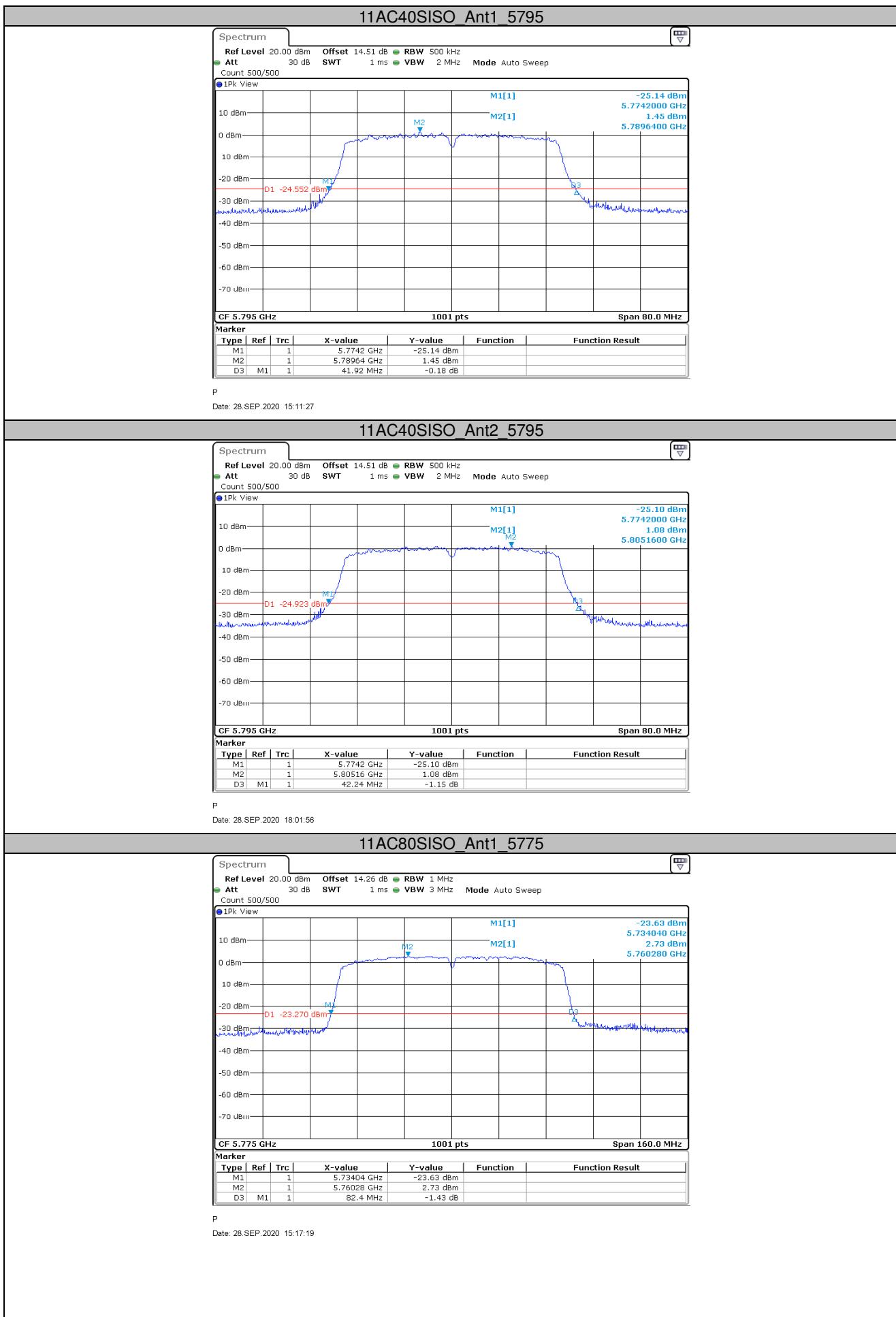


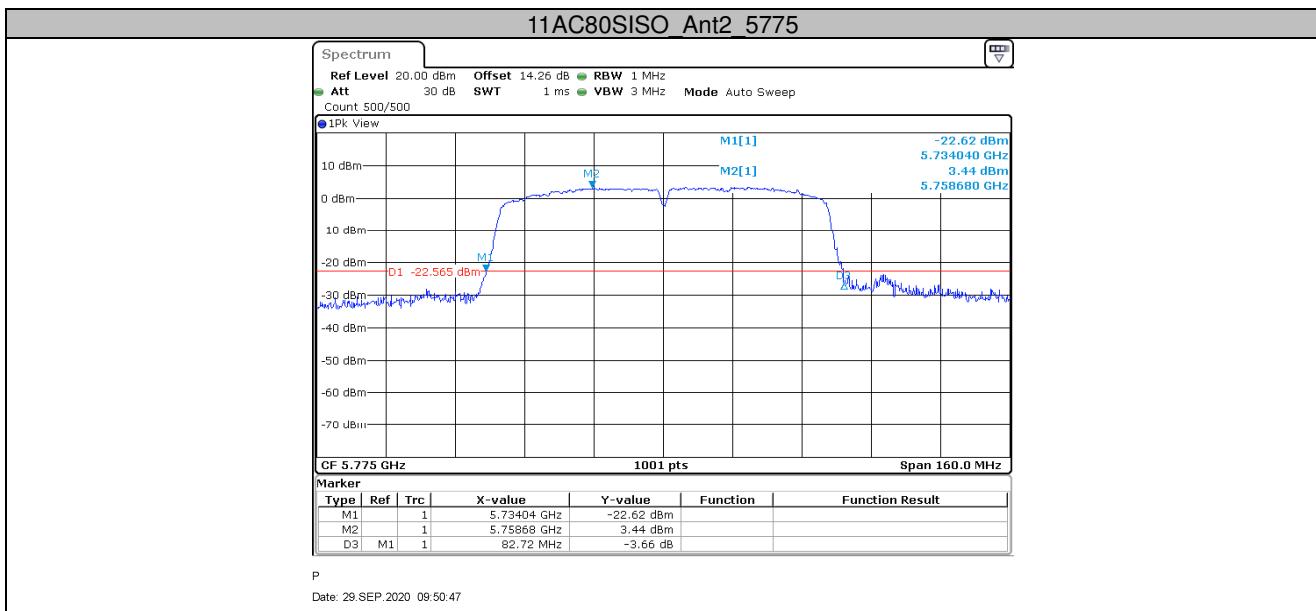






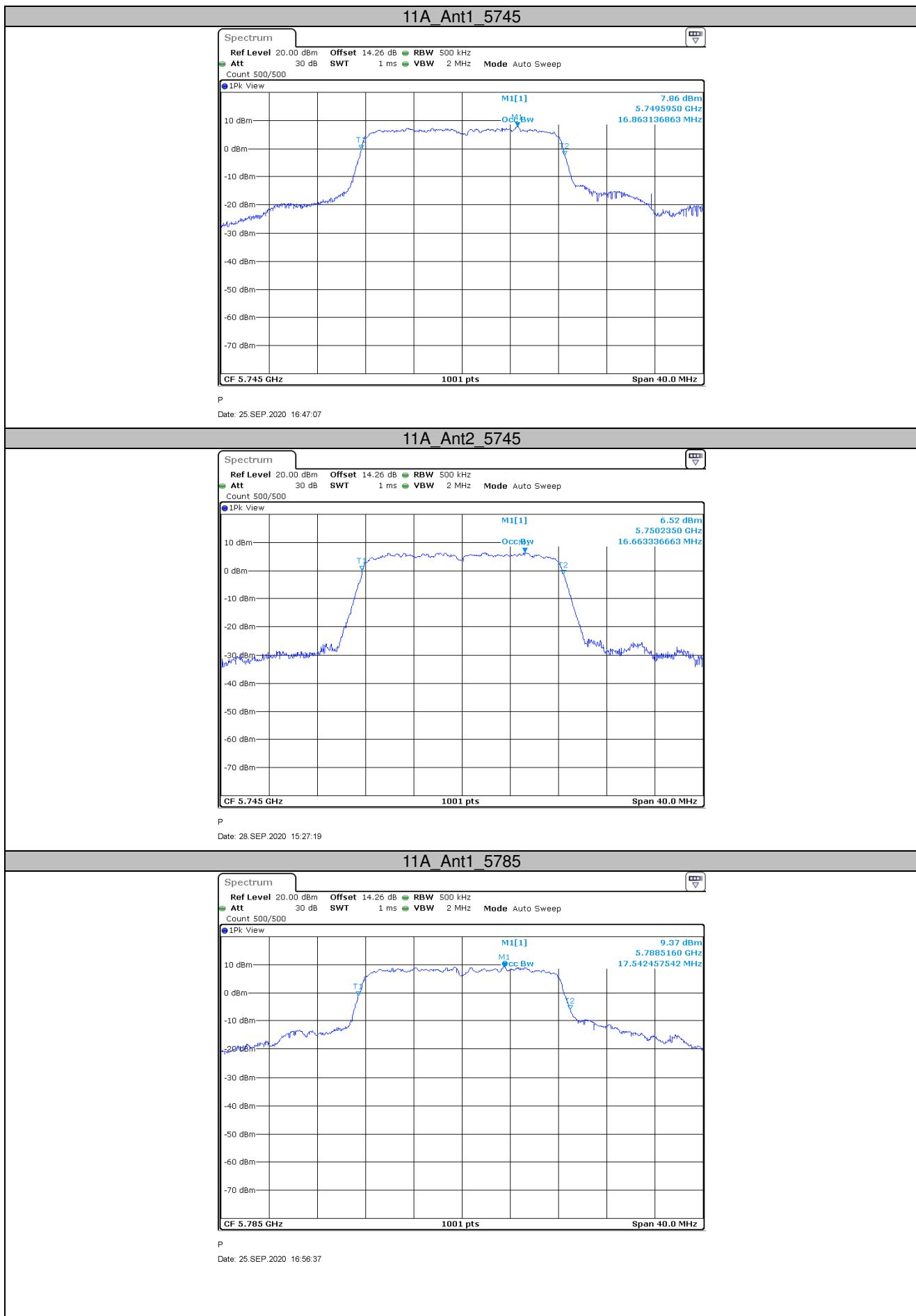


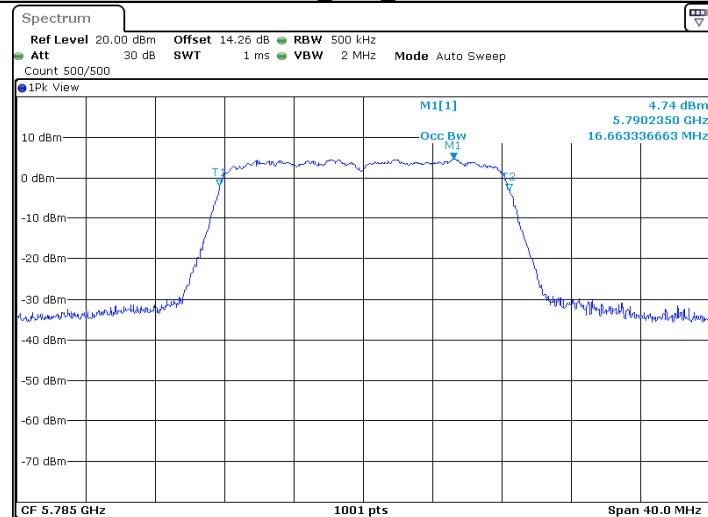




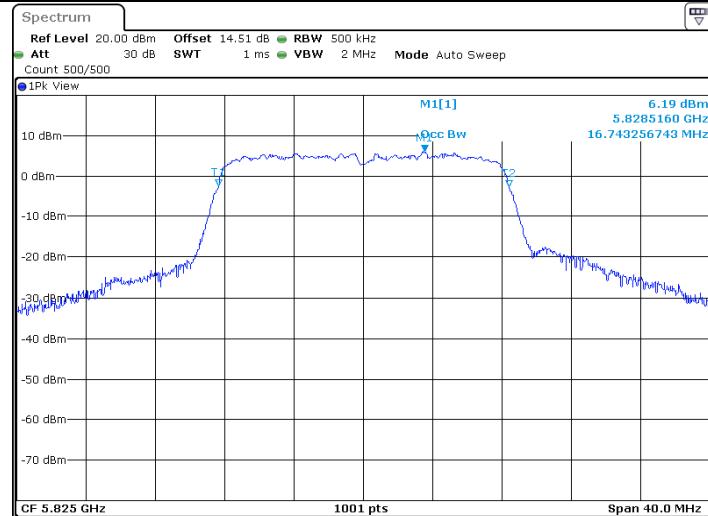
99% OBW

| Test Mode | Antenna | Channel | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|------------|---------|---------|-----------|----------|----------|------------|---------|
| 11A | Ant1 | 5745 | 16.863 | 5736.648 | 5753.511 | --- | PASS |
| | Ant2 | 5745 | 16.663 | 5736.728 | 5753.392 | --- | PASS |
| | Ant1 | 5785 | 17.542 | 5776.409 | 5793.951 | --- | PASS |
| | Ant2 | 5785 | 16.663 | 5776.728 | 5793.392 | --- | PASS |
| | Ant1 | 5825 | 16.743 | 5816.648 | 5833.392 | --- | PASS |
| | Ant2 | 5825 | 16.703 | 5816.648 | 5833.352 | --- | PASS |
| 11N20SISO | Ant1 | 5745 | 17.782 | 5736.169 | 5753.951 | --- | PASS |
| | Ant2 | 5745 | 17.782 | 5736.129 | 5753.911 | --- | PASS |
| | Ant1 | 5785 | 17.742 | 5776.169 | 5793.911 | --- | PASS |
| | Ant2 | 5785 | 17.742 | 5776.169 | 5793.911 | --- | PASS |
| | Ant1 | 5825 | 17.702 | 5816.169 | 5833.871 | --- | PASS |
| | Ant2 | 5825 | 17.742 | 5816.169 | 5833.911 | --- | PASS |
| 11N40SISO | Ant1 | 5755 | 36.843 | 5736.778 | 5773.621 | --- | PASS |
| | Ant2 | 5755 | 36.364 | 5736.858 | 5773.222 | --- | PASS |
| | Ant1 | 5795 | 36.603 | 5776.858 | 5813.462 | --- | PASS |
| | Ant2 | 5795 | 36.364 | 5776.858 | 5813.222 | --- | PASS |
| 11AC20SISO | Ant1 | 5745 | 17.822 | 5736.129 | 5753.951 | --- | PASS |
| | Ant2 | 5745 | 17.742 | 5736.169 | 5753.911 | --- | PASS |
| | Ant1 | 5785 | 17.702 | 5776.169 | 5793.871 | --- | PASS |
| | Ant2 | 5785 | 17.742 | 5776.169 | 5793.911 | --- | PASS |
| | Ant1 | 5825 | 17.702 | 5816.169 | 5833.871 | --- | PASS |
| | Ant2 | 5825 | 17.742 | 5816.169 | 5833.911 | --- | PASS |
| 11AC40SISO | Ant1 | 5755 | 36.683 | 5736.778 | 5773.462 | --- | PASS |
| | Ant2 | 5755 | 36.523 | 5736.858 | 5773.382 | --- | PASS |
| | Ant1 | 5795 | 36.603 | 5776.778 | 5813.382 | --- | PASS |
| | Ant2 | 5795 | 36.523 | 5776.858 | 5813.382 | --- | PASS |
| 11AC80SISO | Ant1 | 5775 | 74.965 | 5737.597 | 5812.562 | --- | PASS |
| | Ant2 | 5775 | 74.965 | 5737.757 | 5812.722 | --- | PASS |

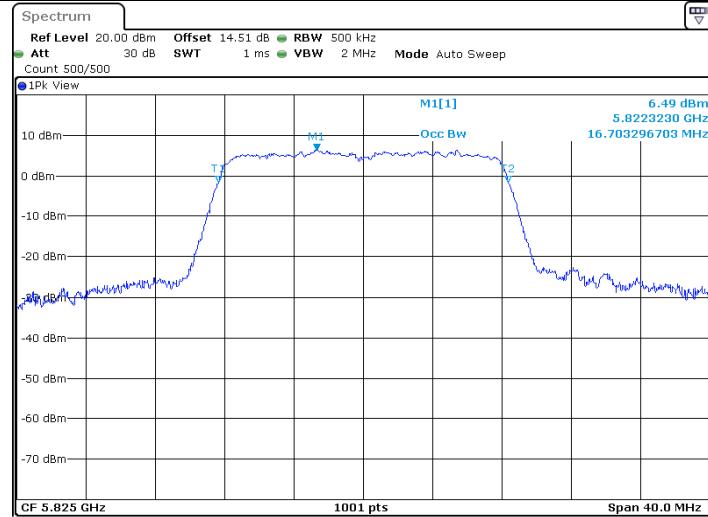


11A_Ant2_5785


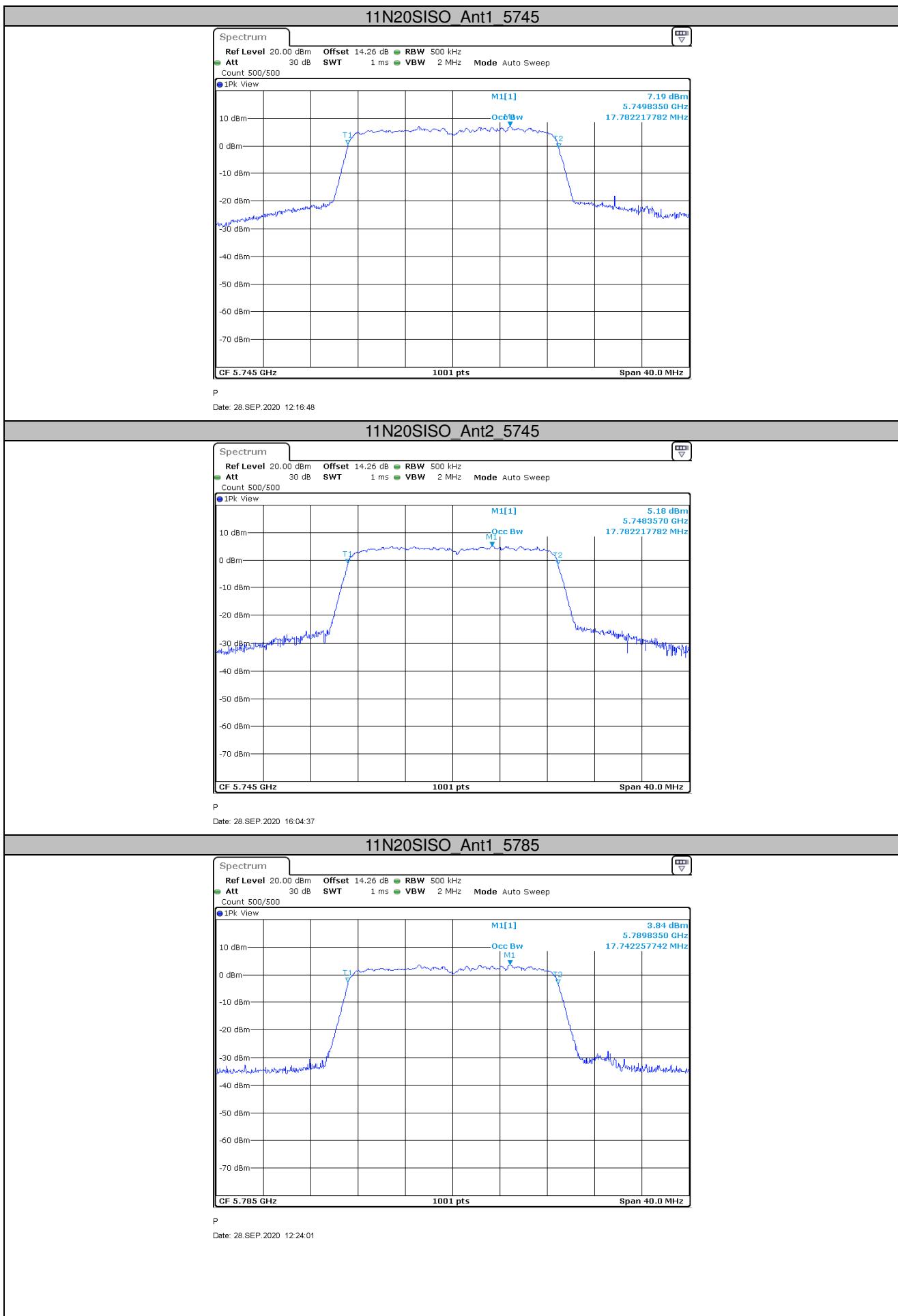
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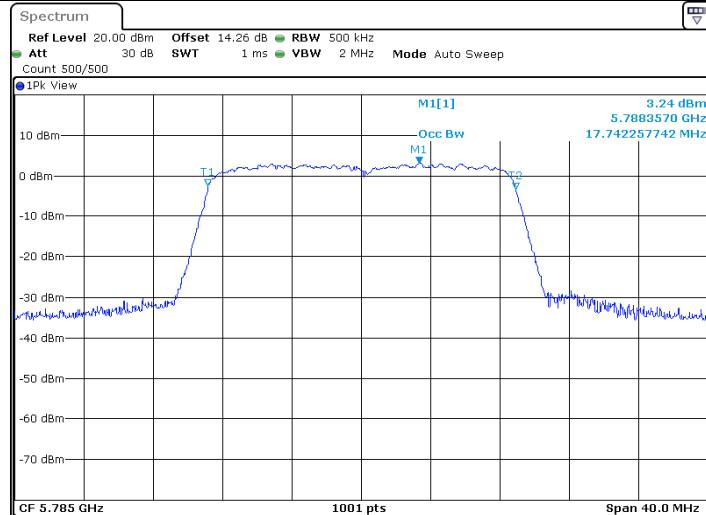
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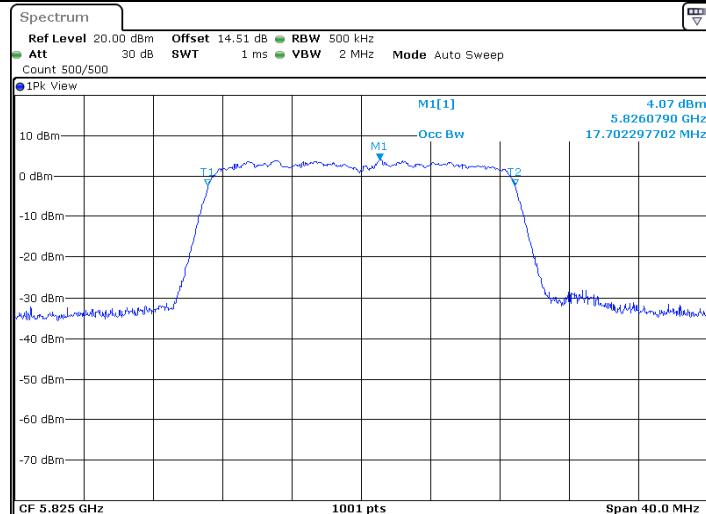
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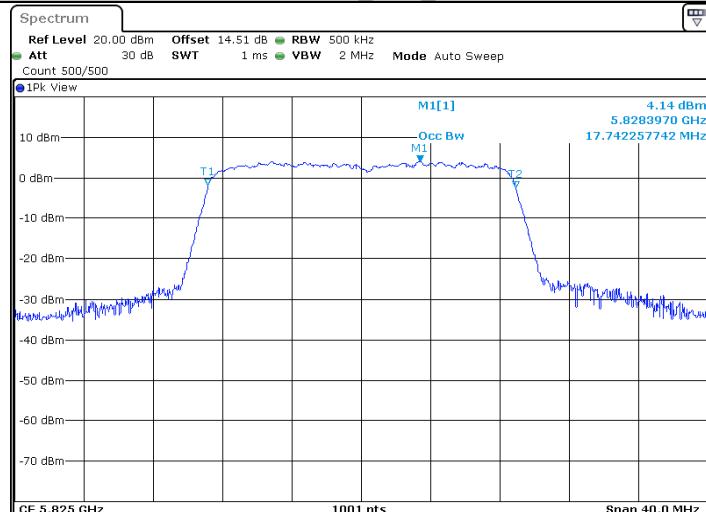


11N20SISO_Ant2_5785


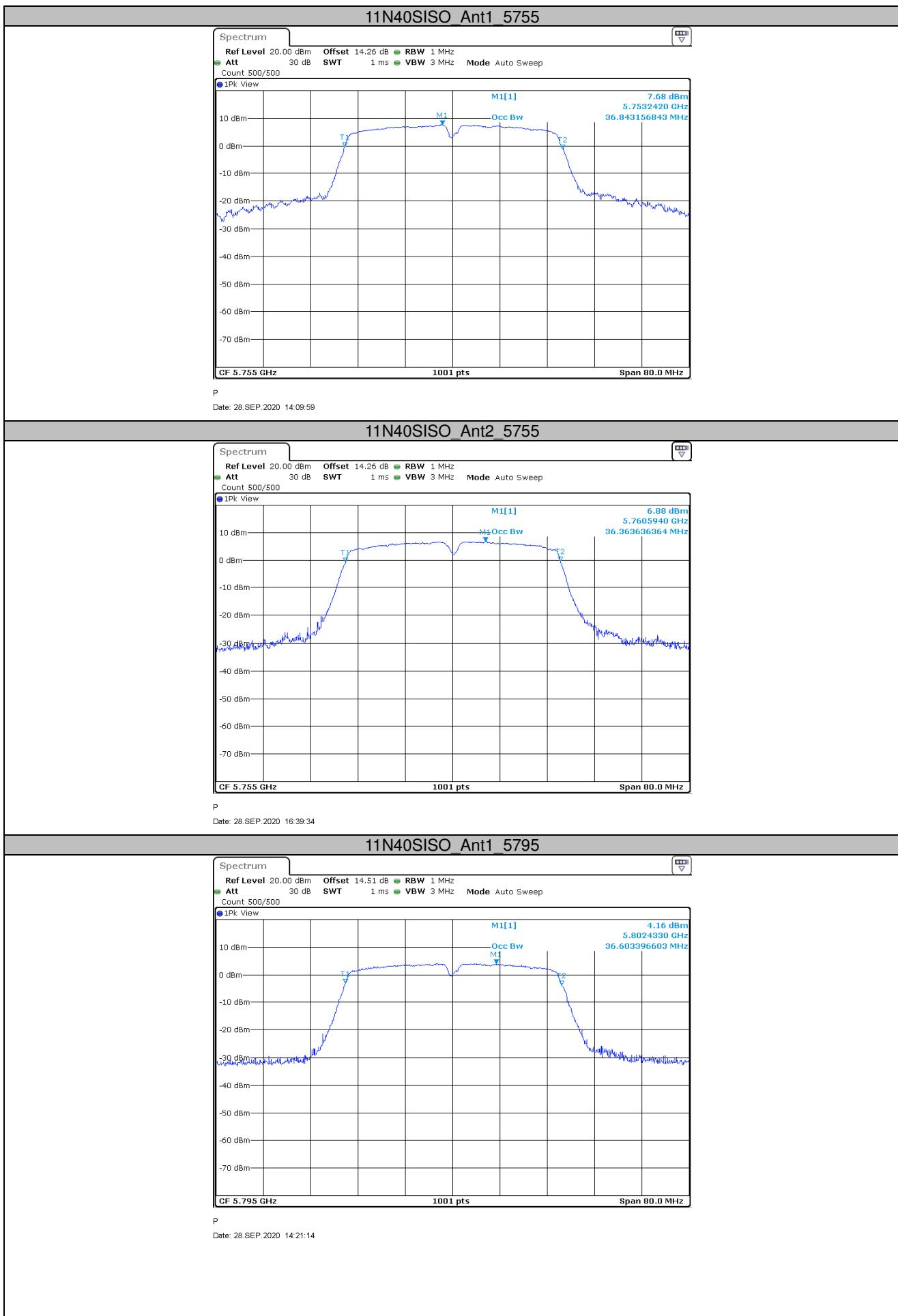
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11N20SISO_Ant1_5825


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Date: 28 SEP 2020 13:49:40

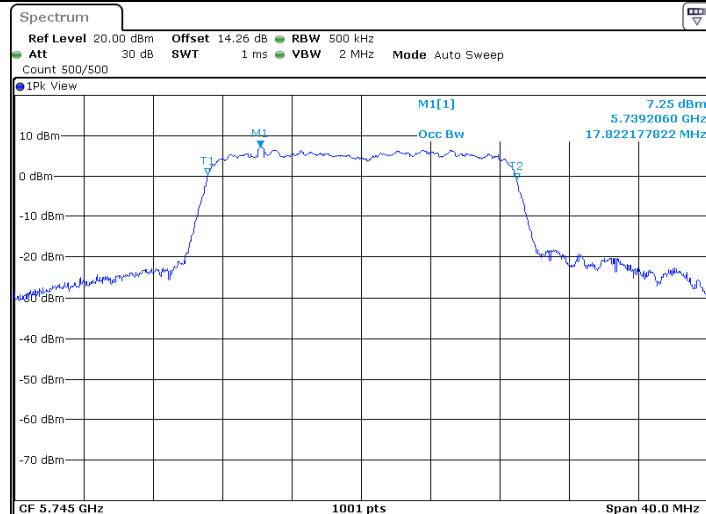
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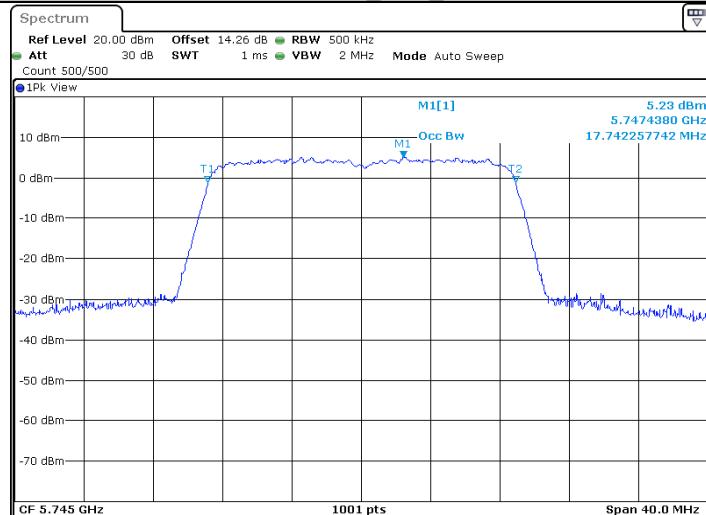


11N40SISO_Ant2_5795

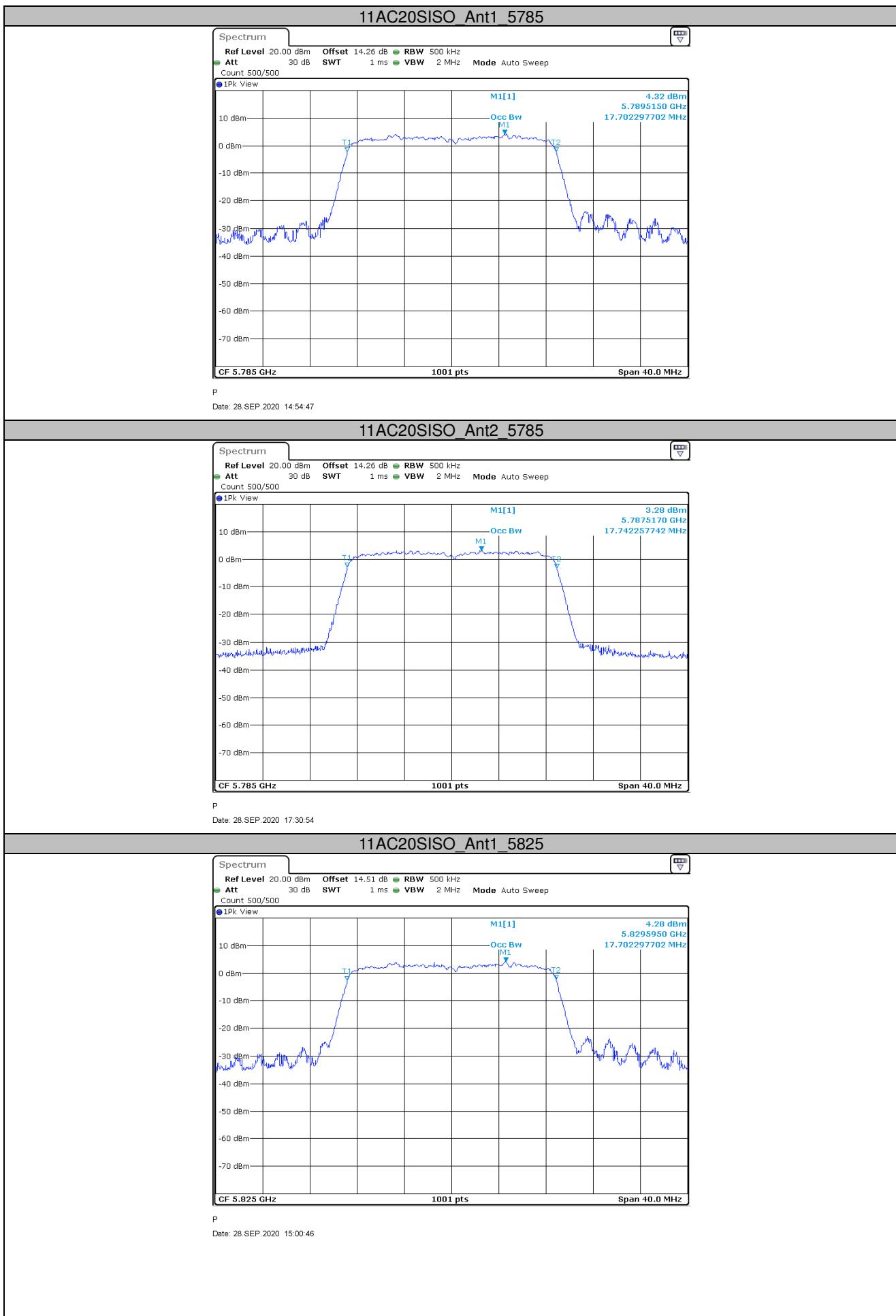

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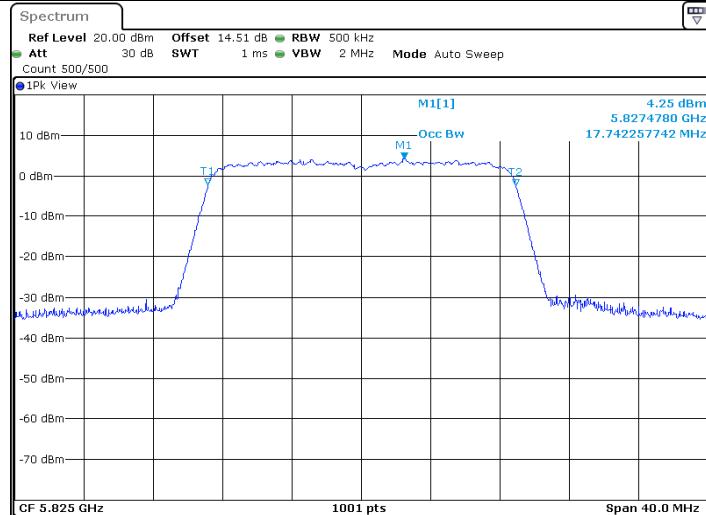
11AC20SISO_Ant1_5745


P
Date: 28 SEP 2020 14:42:36

11AC20SISO_Ant2_5745


P
Date: 28 SEP 2020 17:25:24



11AC20SISO_Ant2 5825


P
Date: 28 SEP 2020 17:39:46

11AC40SISO_Ant1 5755


P
Date: 28 SEP 2020 15:06:30

11AC40SISO_Ant2 5755

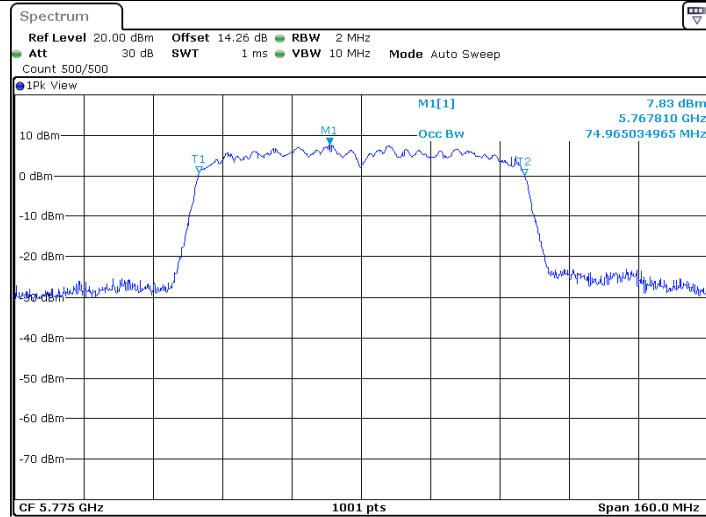

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11AC40SISO_Ant1 5795

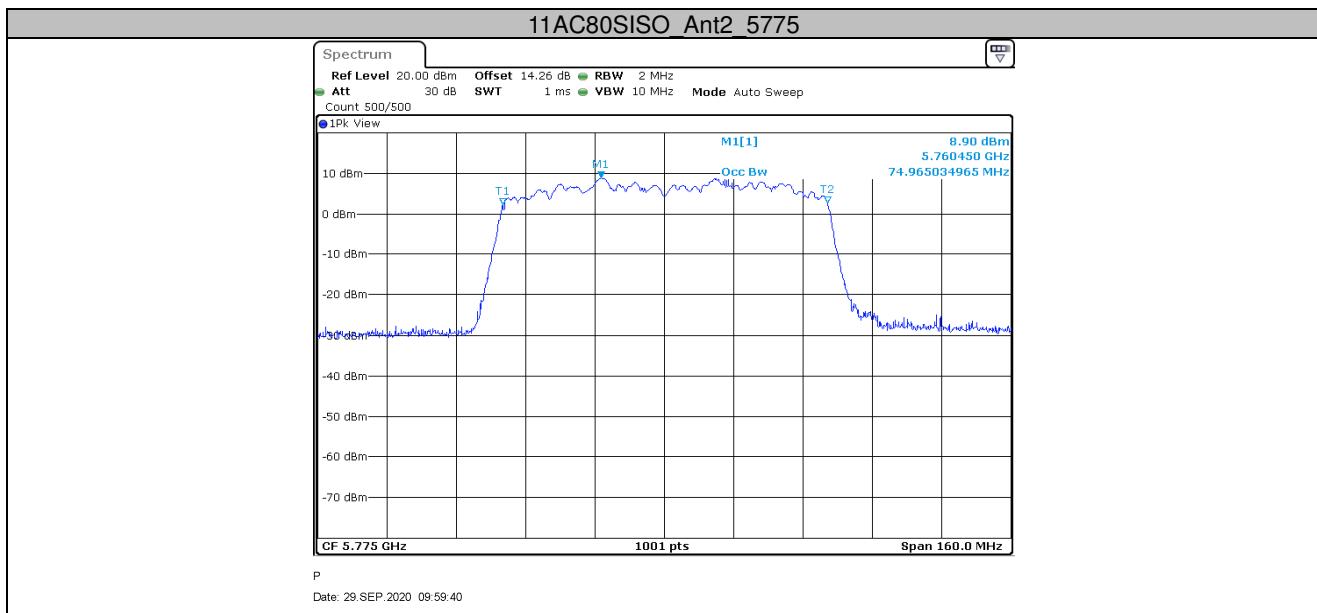

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Date: 28 SEP 2020 15:12:06

11AC40SISO_Ant2 5795


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Date: 28 SEP 2020 18:02:35

11AC80SISO_Ant1 5775


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Date: 28 SEP 2020 15:17:56

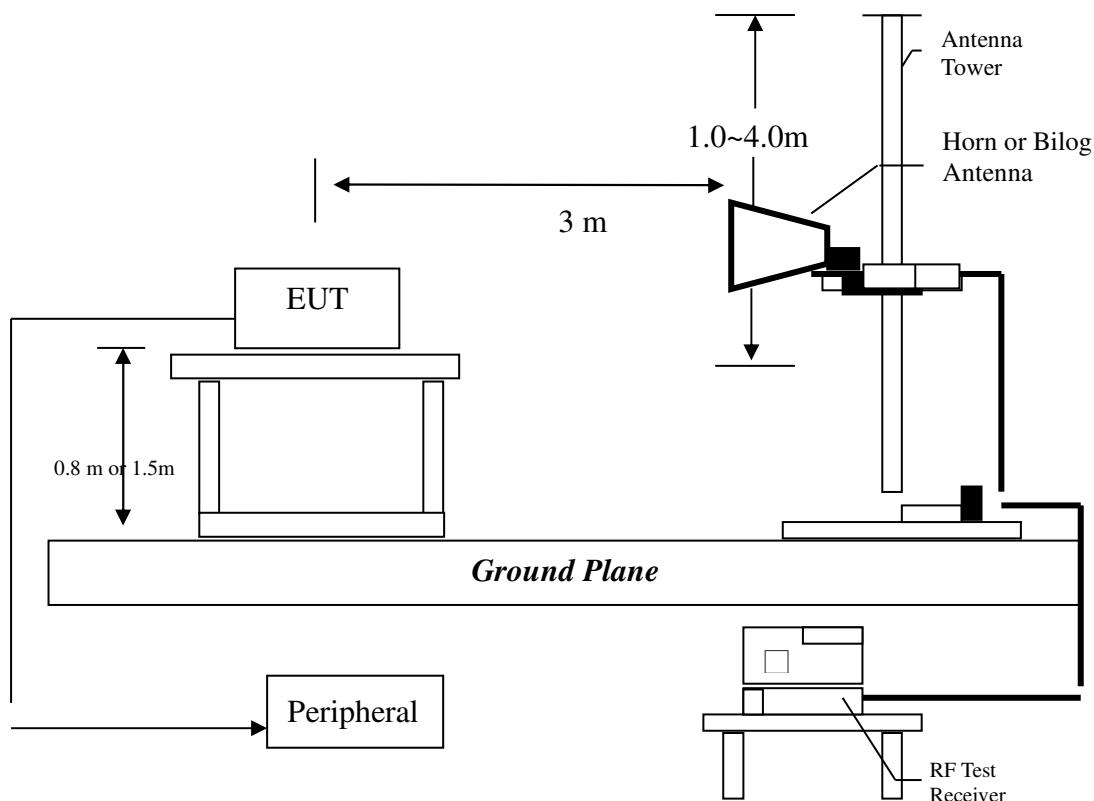


6. Radiated Emission test (FCC 15.205 & 15.209 & 15.407)**6.1 Operating environment**

Temperature: 22 °C
Relative Humidity: 55 %
Atmospheric Pressure 1010 hPa

6.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emission measurements were performed from 9KHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a styrene turntable with the height of 0.8m up to 1GHz and 1.5m above 1GHz. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

Testing settings (refer to KDB 789033 D02)

Peak Measurements below 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=120KHz
- 4, Detector=Quasi-Peak
- 5, Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=1MHz
- 4, VBW=3MHz
- 4, Detector= Peak (Max-hold)
- 5, Trace was allowed to stabilize

Average Measurements above 1GHz

- 1, Analyzer center frequency was set to the frequency of the radiated spurious emission.
- 2, Span=encompass the entire emission
- 3, RBW=1MHz
- 4, VBW=3MHz
- 4, Detector= RMS (Max-hold)
- 5, Trace was allowed to stabilize

6.3 Limit

The spurious Emission shall test through the 10th harmonic or 40GHz (whichever is lower). In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Notes:

- 1, For the band 5.725-5.85GHz, all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- 2, The spectrum is measured from 9KHz to the 10th harmonic of the fundamental frequency of the transmitter using QP detector below 1GHz, above 1GHz, average & peak measurements were taken using for test. The worst-case emission are reported however emission whose levels were not within 20dB of the respective limited were not reported.
- 3, The test was performed on EUT under 802.11a/n-HT20/40/ac-HT20/40/80 continuously transmitting mode. All mode had been tested, but only the worst-case is recorded in the following graph and table.

Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD$$

Where FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD$$

Example

Assume a receiver reading of 62.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 62.0 dB μ V

AF = 7.4 dB

CF = 1.6 dB

AG = 29.0 dB

PD = 0 dB

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in mV/m} = \text{Common Antilogarithm} [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

6.4 Radiated spurious emission test data**6.4.1 Measurement results: frequencies equal to or less than 1 GHz**

Applicant: SKYBELL TECHNOLOGIES INC

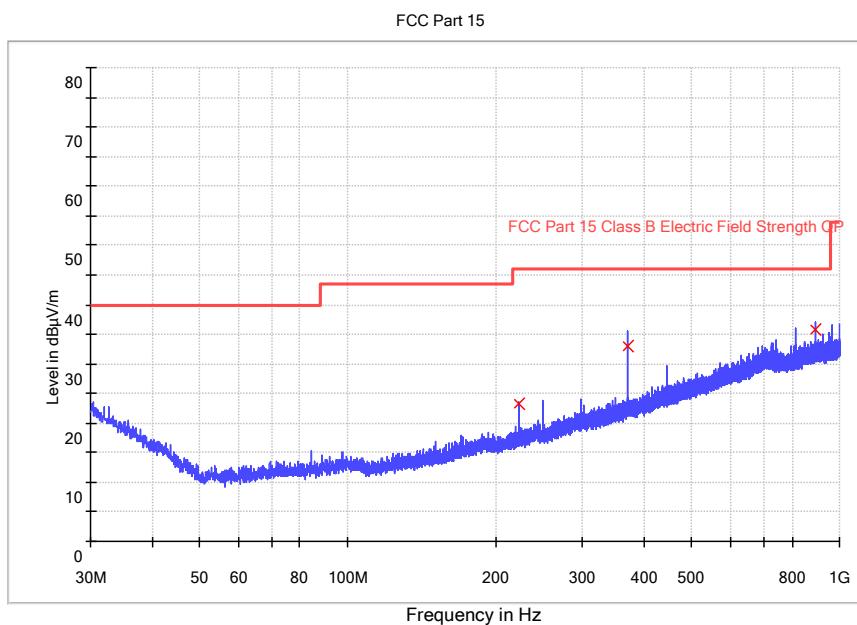
Date of Test: September 21, 2020

Model: TRIM2 S

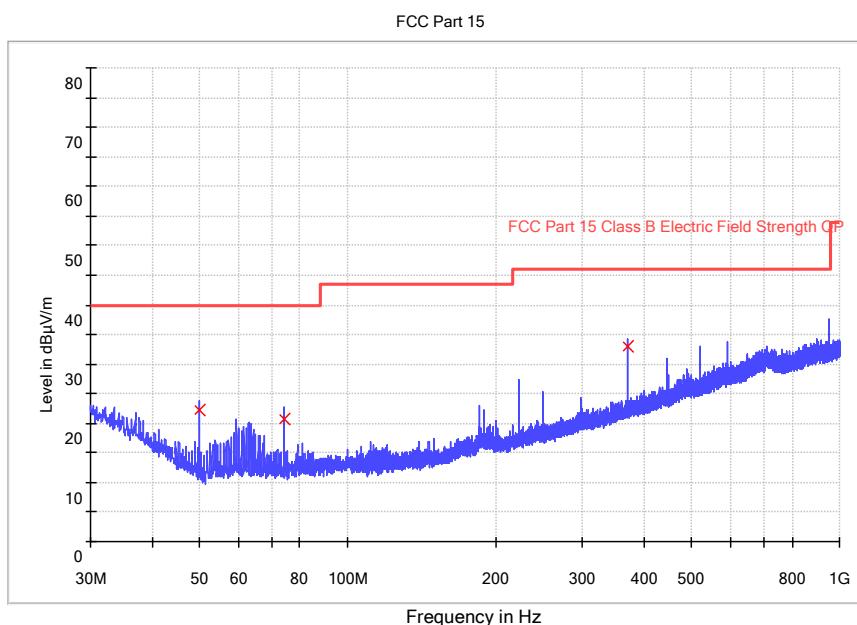
Worst Case Operating Mode:

Transmitting (Antenna 1, 802.11ac-HT40)

ANT Polarity: Horizontal



ANT Polarity: Vertical



Applicant: SKYBELL TECHNOLOGIES INC

Date of Test: September 21, 2020

Worst Case Operating Mode:

Model: TRIM2 S

Transmitting (Antenna 1, 802.11ac-HT40)

Radiated Emissions

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|----------------------------|-------------|
| Horizontal | 222.739000 | 29.7 | 20.0 | 13.6 | 23.3 | 46.0 | -22.7 |
| Horizontal | 371.240000 | 34.5 | 20.0 | 18.6 | 33.1 | 46.0 | -12.9 |
| Horizontal | 891.004333 | 28.4 | 20.0 | 27.4 | 35.8 | 46.0 | -10.2 |
| Vertical | 49.982000 | 34.0 | 20.0 | 8.2 | 22.2 | 40.0 | -17.8 |
| Vertical | 74.232000 | 31.7 | 20.0 | 9.0 | 20.7 | 40.0 | -19.3 |
| Vertical | 371.240000 | 34.3 | 20.0 | 18.6 | 32.9 | 46.0 | -13.1 |

NOTES: 1. Quasi-Peak detector is used for frequency below 1GHz.

2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

6.4.2 Measurement results: frequency above 1GHz

Antenna 1:

The worst case occurred at 802.11ac-VHT40

Channel 151/27Mbps

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 11510.000 | 47.9 | 36.3 | 39.0 | 50.6 | 68.2 | -17.6 |
| Horizontal | 17265.000 | 44.3 | 34.7 | 41.2 | 50.8 | 68.2 | -17.4 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 11510.000 | 37.5 | 36.3 | 39.0 | 40.2 | 54.0 | -13.8 |
| Horizontal | 17265.000 | 34.9 | 34.7 | 41.2 | 41.4 | 54.0 | -12.6 |

Channel 159/27Mbps

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 11590.000 | 48.5 | 36.3 | 39.0 | 51.2 | 68.2 | -17.0 |
| Horizontal | 17385.000 | 45.1 | 34.7 | 41.2 | 51.6 | 68.2 | -16.6 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 11590.000 | 38.5 | 36.3 | 39.0 | 41.2 | 54.0 | -12.8 |
| Horizontal | 17385.000 | 33.6 | 34.7 | 41.2 | 40.1 | 54.0 | -13.9 |

Antenna 2:

The worst case occurred at 802.11ac-VHT40

Channel 151/27Mbps

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 11510.000 | 47.4 | 36.3 | 39.0 | 50.1 | 68.2 | -18.1 |
| Horizontal | 17265.000 | 45.0 | 34.7 | 41.2 | 51.5 | 68.2 | -16.7 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 11510.000 | 38.2 | 36.3 | 39.0 | 40.9 | 54.0 | -13.1 |
| Horizontal | 17265.000 | 34.8 | 34.7 | 41.2 | 41.3 | 54.0 | -12.7 |

Channel 159/27Mbps

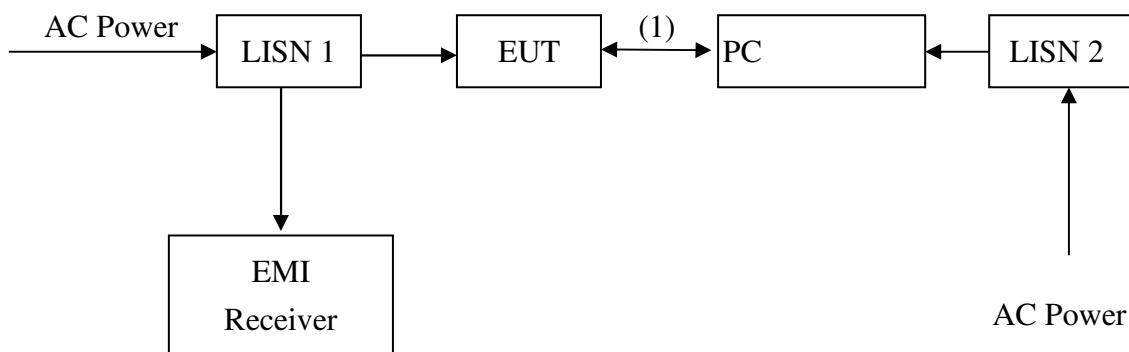
| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Peak Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|---------------------------------|-------------|
| Horizontal | 11590.000 | 49.5 | 36.3 | 39.0 | 52.2 | 68.2 | -16.0 |
| Horizontal | 17385.000 | 44.9 | 34.7 | 41.2 | 51.4 | 68.2 | -16.8 |

| Polarization | Frequency (MHz) | Reading (dB μ V) | Pre-Amp Gain (dB) | Antenna Factor (dB) | Net at 3m (dB μ V/m) | Average Limit at 3m (dB μ V/m) | Margin (dB) |
|--------------|-----------------|----------------------|-------------------|---------------------|--------------------------|------------------------------------|-------------|
| Horizontal | 11590.000 | 38.8 | 36.3 | 39.0 | 41.5 | 54.0 | -12.5 |
| Horizontal | 17385.000 | 34.7 | 34.7 | 41.2 | 41.2 | 54.0 | -12.8 |

- * Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function. All unwanted emissions outside of the 5725-5850 MHz band are complied with the limit.

7. Power Line Conducted Emission test**7.1 Operating environment**

Temperature: 23 °C
Relative Humidity: 55 %
Atmospheric Pressure 1011 hPa

7.2 Test setup & procedure

The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50 uH coupling impedance with 50 ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10/2013 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCI 30) is set at 9 kHz.

7.3 Limit

| Freq. (MHz) | Conducted Limit (dBuV) | |
|----------------|------------------------|----------|
| | Q.P. | Ave. |
| 0.15~0.50 | 66 – 56* | 56 – 46* |
| 0.50~5.00 | 56 | 46 |
| 5.00~30.0 | 60 | 50 |

*Decreases with the logarithm of the frequency.

7.4 Power Line Conducted Emission test data

Applicant: SKYBELL TECHNOLOGIES INC

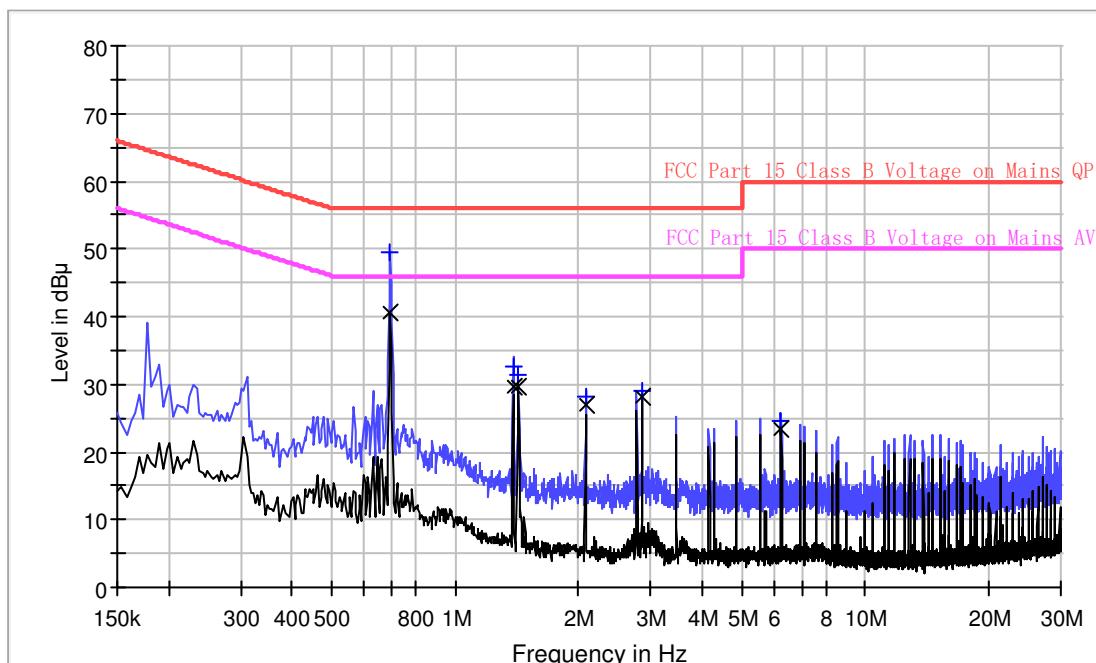
Date of Test: 21 September 2020

Model: TRIM2 S

Worst Case Operating Mode:

Antenna 1, 802.11ac-VHT40

Phase: Live



Result Table QP

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.694000 | 49.4 | 9.000 | L1 | 9.7 | 6.6 | 56.0 |
| 1.386000 | 32.5 | 9.000 | L1 | 9.7 | 23.5 | 56.0 |
| 1.426000 | 31.3 | 9.000 | L1 | 9.7 | 24.7 | 56.0 |
| 2.082000 | 28.1 | 9.000 | L1 | 9.7 | 27.9 | 56.0 |
| 2.854000 | 29.0 | 9.000 | L1 | 9.8 | 27.0 | 56.0 |
| 6.246000 | 24.6 | 9.000 | L1 | 9.8 | 35.4 | 60.0 |

Result Table AV

| Frequency (MHz) | Average (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|----------------|-----------------|------|------------|-------------|--------------|
| 0.694000 | 40.6 | 9.000 | L1 | 9.7 | 5.4 | 46.0 |
| 1.386000 | 29.7 | 9.000 | L1 | 9.7 | 16.3 | 46.0 |
| 1.426000 | 29.5 | 9.000 | L1 | 9.7 | 16.5 | 46.0 |
| 2.082000 | 26.9 | 9.000 | L1 | 9.7 | 19.1 | 46.0 |
| 2.854000 | 28.2 | 9.000 | L1 | 9.8 | 17.8 | 46.0 |
| 6.246000 | 23.4 | 9.000 | L1 | 9.8 | 26.6 | 50.0 |

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBuV) – Level (dBuV)

Applicant: SKYBELL TECHNOLOGIES INC

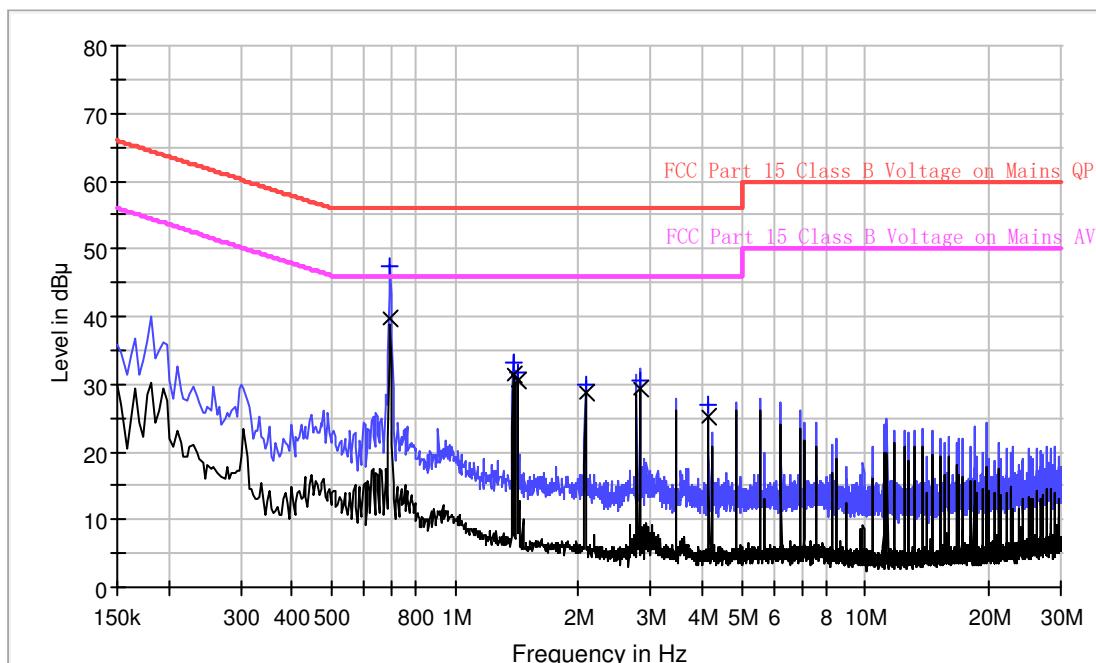
Date of Test: 21 September 2020

Worst Case Operating Mode:

Phase: Neutral

Model: TRIM2 S

Antenna 1, 802.11ac-VHT40



Result Table QP

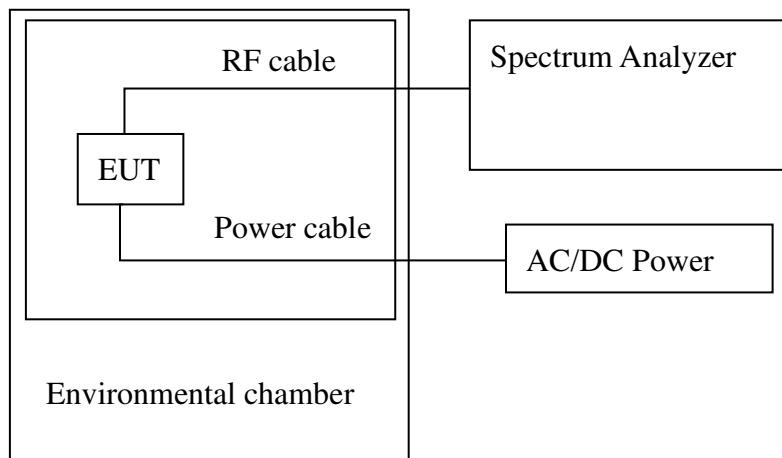
| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.694000 | 47.3 | 9.000 | N | 9.7 | 8.7 | 56.0 |
| 1.386000 | 33.1 | 9.000 | N | 9.7 | 22.9 | 56.0 |
| 1.416000 | 31.6 | 9.000 | N | 9.7 | 24.4 | 56.0 |
| 2.078000 | 30.0 | 9.000 | N | 9.8 | 26.0 | 56.0 |
| 2.830000 | 30.4 | 9.000 | N | 9.8 | 25.6 | 56.0 |
| 4.162000 | 26.9 | 9.000 | N | 9.8 | 29.1 | 56.0 |

Result Table AV

| Frequency (MHz) | Average (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|----------------|-----------------|------|------------|-------------|--------------|
| 0.694000 | 39.7 | 9.000 | N | 9.7 | 6.3 | 46.0 |
| 1.386000 | 31.5 | 9.000 | N | 9.7 | 14.5 | 46.0 |
| 1.416000 | 30.5 | 9.000 | N | 9.7 | 15.5 | 46.0 |
| 2.078000 | 28.8 | 9.000 | N | 9.8 | 17.2 | 46.0 |
| 2.830000 | 29.3 | 9.000 | N | 9.8 | 16.7 | 46.0 |
| 4.162000 | 25.1 | 9.000 | N | 9.8 | 20.9 | 46.0 |

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBuV) – Level (dBuV)

8. Frequency Stability Test**8.1 Test setup & procedure**

Note1: The frequency stability is measured with the temperature variation range of -40°C to +45°C (10°C increment), and voltage supply variation range of 85% to 115% of nominal AC supply voltage.

2: To ensure emission at the band-edge is maintained within the authorized band, the frequency 802.11a/n-HT20/40/ac-HT20/40/80 channel 149, 157, 165, 151, 159, 155 are selected to test and the worst case was reported.

8.2 Frequency Stability Test Data

20°C is taken as temperature in normal condition.

NV:AC 30V LV: AC 25.5V HV: AC 34.5V

| Voltage | | | | | | | | |
|------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Test Mode | Antenna | Channel | Voltage [VAc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5745 | NV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | LV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | HV | 20 | -15000 | -2.610966 | 20 | PASS |
| | Ant2 | 5745 | NV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant1 | 5785 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant2 | 5785 | NV | 20 | -15000 | -2.592913 | 20 | PASS |
| | | | LV | 20 | 15000 | 2.592913 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| 11N20SISO | Ant1 | 5745 | NV | 20 | -15000 | -2.575107 | 20 | PASS |
| | | | LV | 20 | -15000 | -2.575107 | 20 | PASS |
| | | | HV | 20 | -15000 | -2.575107 | 20 | PASS |
| | Ant2 | 5745 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant1 | 5785 | NV | 20 | -15000 | -2.592913 | 20 | PASS |
| | | | LV | 20 | -15000 | -2.592913 | 20 | PASS |
| | | | HV | 20 | -15000 | -2.592913 | 20 | PASS |
| | Ant2 | 5785 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 15000 | 2.592913 | 20 | PASS |
| 11N40SISO | Ant1 | 5755 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 30000 | 5.212858 | 20 | PASS |
| | Ant2 | 5755 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant1 | 5795 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant2 | 5795 | NV | 20 | 30000 | 5.176877 | 20 | PASS |
| | | | LV | 20 | -30000 | -5.176877 | 20 | PASS |
| | | | HV | 20 | -30000 | -5.176877 | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant2 | 5745 | NV | 20 | 15000 | 2.610966 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant1 | 5785 | NV | 20 | -15000 | -2.592913 | 20 | PASS |
| | | | LV | 20 | 15000 | 2.592913 | 20 | PASS |
| | | | HV | 20 | 15000 | 2.592913 | 20 | PASS |

| | | | | | | | | |
|------------|------|------|----|----|--------|-----------|----|------|
| | Ant2 | 5785 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 15000 | 2.592913 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant1 | 5825 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 15000 | 2.575107 | 20 | PASS |
| | Ant2 | 5825 | NV | 20 | 15000 | 2.575107 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| 11AC40SISO | Ant1 | 5755 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant2 | 5755 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | -30000 | -5.212858 | 20 | PASS |
| | | | HV | 20 | -30000 | -5.212858 | 20 | PASS |
| | Ant1 | 5795 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 30000 | 5.176877 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant2 | 5795 | NV | 20 | -30000 | -5.176877 | 20 | PASS |
| | | | LV | 20 | -30000 | -5.176877 | 20 | PASS |
| | | | HV | 20 | -30000 | -5.176877 | 20 | PASS |
| 11AC80SISO | Ant1 | 5775 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |
| | Ant2 | 5775 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | LV | 20 | 0 | 0 | 20 | PASS |
| | | | HV | 20 | 0 | 0 | 20 | PASS |

| Temperature | | | | | | | | |
|-------------|---------|---------|---------------|------------------|----------------|-----------------|-------------|---------|
| Test Mode | Antenna | Channel | Voltage [VAc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5745 | NV | -40 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -30 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -20 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -10 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 0 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 30 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 40 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 45 | -15000 | -2.610966 | 20 | PASS |
| 11A | Ant2 | 5745 | NV | -40 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -30 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11A | Ant1 | 5785 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11A | Ant2 | 5785 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 45 | 15000 | 2.592913 | 20 | PASS |
| 11A | Ant1 | 5825 | NV | -40 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | -30 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | -20 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | -10 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 0 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 20 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 30 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 40 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 45 | -15000 | -2.575107 | 20 | PASS |
| 11A | Ant2 | 5825 | NV | -40 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |

| | | | | | | | | |
|-----------|------|------|----|-----|--------|-----------|----|------|
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11N20SISO | Ant1 | 5745 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11N20SISO | Ant2 | 5745 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11N20SISO | Ant1 | 5785 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | -20 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | -10 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 0 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 20 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 30 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 40 | -15000 | -2.592913 | 20 | PASS |
| | | | NV | 45 | -15000 | -2.592913 | 20 | PASS |
| 11N20SISO | Ant2 | 5785 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11N20SISO | Ant1 | 5825 | NV | -40 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | -30 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 10 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 40 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11N20SISO | Ant2 | 5825 | NV | -40 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | -30 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |

| | | | | | | | | |
|------------|------|------|----|-----|--------|------------|----|------|
| 11N40SISO | Ant1 | 5755 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | 20 | 30000 | 5.212858 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 30000 | 5.212858 | 20 | PASS |
| | | | NV | 45 | 30000 | 5.212858 | 20 | PASS |
| 11AC20SISO | Ant2 | 5755 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 30000 | 5.212858 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11AC20SISO | Ant1 | 5795 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | 45 | -30000 | -5.176877 | 20 | PASS |
| 11AC20SISO | Ant2 | 5795 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | -10 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | -60000 | -10.353753 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | 40 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | NV | -40 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -30 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | -15000 | -2.610966 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| 11AC20SISO | Ant2 | 5745 | NV | -40 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | -30 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 40 | 15000 | 2.610966 | 20 | PASS |
| | | | NV | 45 | 15000 | 2.610966 | 20 | PASS |
| 11AC20SISO | Ant1 | 5785 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 15000 | 2.592913 | 20 | PASS |

| | | | | | | | | |
|--|------|------|----|-----|--------|-----------|----|------|
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 10 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 20 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 30 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 15000 | 2.592913 | 20 | PASS |
| | Ant2 | 5785 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 20 | 15000 | 2.592913 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 15000 | 2.592913 | 20 | PASS |
| | Ant1 | 5825 | NV | -40 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | -30 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | 20 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 15000 | 2.575107 | 20 | PASS |
| | | | NV | 45 | 15000 | 2.575107 | 20 | PASS |
| | Ant2 | 5825 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | -15000 | -2.575107 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | -15000 | -2.575107 | 20 | PASS |
| | Ant1 | 5755 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| | | | NV | 20 | 30000 | 5.212858 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| | Ant2 | 5755 | NV | -40 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | -30 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | 10 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | -30000 | -5.212858 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| | Ant1 | 5795 | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 30000 | 5.176877 | 20 | PASS |
| | | | NV | -10 | 30000 | 5.176877 | 20 | PASS |
| | | | NV | 0 | 30000 | 5.176877 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |

| | | | | | | | | |
|------------|------|------|----|-----|--------|-----------|----|------|
| | Ant2 | 5795 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| | | | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | -30000 | -5.176877 | 20 | PASS |
| 11AC80SISO | Ant1 | 5775 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | 40 | -30000 | -5.176877 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| | | | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |
| 11AC80SISO | Ant2 | 5775 | NV | 20 | 0 | 0 | 20 | PASS |
| | | | NV | 30 | 0 | 0 | 20 | PASS |
| | | | NV | 40 | 0 | 0 | 20 | PASS |
| | | | NV | 45 | 0 | 0 | 20 | PASS |
| | | | NV | -40 | 0 | 0 | 20 | PASS |
| | | | NV | -30 | 0 | 0 | 20 | PASS |
| | | | NV | -20 | 0 | 0 | 20 | PASS |
| | | | NV | -10 | 0 | 0 | 20 | PASS |
| | | | NV | 0 | 0 | 0 | 20 | PASS |
| | | | NV | 10 | 0 | 0 | 20 | PASS |

Note: All emissions are maintained within the band of operation under all conditions of normal operation as specified in the user manual. It fulfills the requirement of 15.407(g).

Appendix A: Test equipment list

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|---------------|---------------------|-----------------|--------------|------------|------------|------------|
| SZ182-02 | RF Power Meter | Anritsu | ML2496A | 1302005 | 2020-05-27 | 2021-05-27 |
| SZ182-02-01 | Power Sensor | Anritsu | MA2411B | 1207429 | 2020-05-27 | 2021-05-27 |
| SZ061-03 | BiConilog Antenna | ETS | 3142C | 00166158 | 2020-05-24 | 2021-05-24 |
| SZ185-01 | EMI Receiver | R&S | ESCI | 100547 | 2020-05-27 | 2021-05-27 |
| SZ061-08 | Horn Antenna | ETS | 3115 | 00092346 | 2019-09-07 | 2021-09-07 |
| SZ061-06 | Active Loop Antenna | Electro-Metrics | EM-6876 | 217 | 2019-05-24 | 2021-05-24 |
| SZ056-03 | Spectrum Analyzer | R&S | FSP 30 | 101148 | 2020-05-27 | 2021-05-27 |
| SZ056-06 | Signal Analyzer | R&S | FSV 40 | 101101 | 2020-05-27 | 2021-05-27 |
| SZ181-04 | Preamplifier | Agilent | 8449B | 3008A02474 | 2020-05-27 | 2021-05-27 |
| SZ188-01 | Anechoic Chamber | ETS | RFD-F/A-100 | 4102 | 2018-12-15 | 2021-12-15 |
| SZ062-02 | RF Cable | RADIALL | RG 213U | -- | 2020-06-12 | 2020-12-12 |
| SZ062-05 | RF Cable | RADIALL | 0.04-26.5GHz | -- | 2020-08-24 | 2021-02-24 |
| SZ062-12 | RF Cable | RADIALL | 0.04-26.5GHz | -- | 2020-08-24 | 2021-02-24 |
| SZ067-04 | Notch Filter | Micro-Tronics | BRM50702-02 | -- | 2020-05-27 | 2021-05-27 |
| SZ185-02 | EMI Test Receiver | R&S | ESCI | 100692 | 2019-10-29 | 2020-10-29 |
| SZ187-01 | Two-Line V-Network | R&S | ENV216 | 100072 | 2019-10-29 | 2020-10-29 |
| SZ188-03 | Shielding Room | ETS | RFD-100 | 4100 | 2020-01-07 | 2023-01-07 |

Expanded uncertainty of radiated emission measurement is ± 4.9 dB.

Expanded uncertainty of conducted emission measurement is ± 3.6 dB.

***** End of Report*****