

FCC Test Report

Product Name : LV55
Trade Name : WNC
Model No. : LVSKIHP
FCC ID : NKR-LVSK-IHP

Applicant : Wistron NeWeb Corporation

Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Date of Receipt : May 29, 2020
Issued Date : Jul. 16, 2020
Report No. : 2050962R-E3042110012
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Jul. 16, 2020


Report No. : 2050962R-E3042110012



Product Name : LV55
 Applicant : Wistron NeWeb Corporation
 Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
 Manufacturer : Wistron NeWeb Corporation
 Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
 Trade Name : WNC
 Model No. : LVSKIHP
 FCC ID : NKR-LVSK-IHP
 EUT Adapter Rated Voltage : AC 100-240V / 50-60Hz
 EUT Adapter Test Voltage : AC 120V / 60Hz
 Applicable Standard : FCC CFR Title 47 Part 22 Subpart H
 FCC CFR Title 47 Part 24 Subpart E
 FCC CFR Title 47 Part 27 Subpart L, Subpart F
 Test Lab : Hsin Chu Laboratory
 Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 310, Taiwan, R.O.C.
 TEL: +886-3-582-8001 / FAX: +886-3-582-8958
 Test Result : Complied

Documented By : 
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Tested By : 
 (Max Chang / Senior Engineer)

Approved By : 
 (Louis Hsu / Deputy Manager)

Revision History

| Version | Description | Issued Date |
|---------|-------------------------|---------------|
| V1.0 | Initial issue of report | Jul. 16, 2020 |
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1. General Information

1.1. EUT Description

| | |
|--------------------------------|--------------------------------------------------------------------------------|
| Product Name | LV55 |
| Trade Name | WNC |
| Model No. | LVSKIHP |
| Uplink Frequency Range (MHz) | Band 2: 1850~1910 Band 5: 824~849 Band 13: 777~787 Band 66: 1710~1780 |
| Downlink Frequency Range (MHz) | Band 2: 1930~1990 Band 5: 869~894 Band 13: 746~756 Band 66: 2110~2200 |
| 2UL CA List | 2A-5A, 2A-13A, 2A-66A, 5A-66A, 13A-66A |
| Modulation | QPSK /16QAM / 64QAM |
| HW Version | 0.0.2 |
| SW Version | 0.23.9.1dbg |
| IMEI No. | 355806710003510 |

| Accessories Information | |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Adapter (1) (White/Black) | MFR: Delta, M/N: ADP-120VH D Input: AC 100-240V~2.5A, 50-60Hz Output: 20V, 6A Cable Out: Non-Shielded, 3.0m Power Cord: Non-Shielded, 2m |
| Power Adapter (2) (White/Black) | MFR: Delta, M/N: ADH-90AR B Input: AC 100-240V~2.0A, 50-60Hz Output: 56V, 1.61A Power Cord: Non-Shielded, 1.8m |
| PoE Surge Protective Device | MFR: Citel Model No.: CRMJ8-PoE-C6 Serial No.: N/A |

| Antenna Information | | | | | |
|---------------------|--------------|--------------------|-------------|------------------------------------|------------------------------------------------------------------------------------------|
| No | Manufacturer | Model No. | Part No | Antenna Type | Peak Gain |
| 1 | WNC | 95XKAC15.GD SVZ | LTE1(ANT_1) | MonoPole Antenna | -0.69dBi for Band 13 -1.49dBi for Band 5 3.28dBi for Band 66 1.76dBi for Band 2 |
| 2 | WNC | 95XKAC15.GD SVZ | LTE2(ANT_3) | MonoPole Antenna (RX functions) | 2.32dBi for Band 66 1.57dBi for Band 2 |
| 3 | WNC | 95XKAC15.GD TVZ | LTE3(ANT_4) | MonoPole Antenna (RX functions) | 2.5dBi for Band 66 2.25dBi for Band 2 |
| 4 | WNC | 95XKAC15.GD RVZ | LTE4(ANT_2) | MonoPole Antenna | -1.12dBi for Band 13 0.63dBi for Band 5 2.15dBi for Band 66 2.22dBi for Band 2 |

Note:

1. Regarding frequency band operation, the lowest, middle and highest frequency of channel were selected to perform the test, and the details were shown on this report.
2. The EUT description is from the customer declaration.

1.2. Mode of Operation

The EUT provide all functions described as above. The EUT is tested with maximum rated TX power via the Base Station simulator.

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode |
|------------------------|
| Mode 1: LTE Band 2 |
| Mode 2: LTE Band 5 |
| Mode 3: LTE Band 13 |
| Mode 4: LTE Band 66 |
| Mode 5: LTE CA_2A-5A |
| Mode 6: LTE CA_2A-13A |
| Mode 7: LTE CA_2A-66A |
| Mode 8: LTE CA_5A-66A |
| Mode 9: LTE CA_13A-66A |

Note :

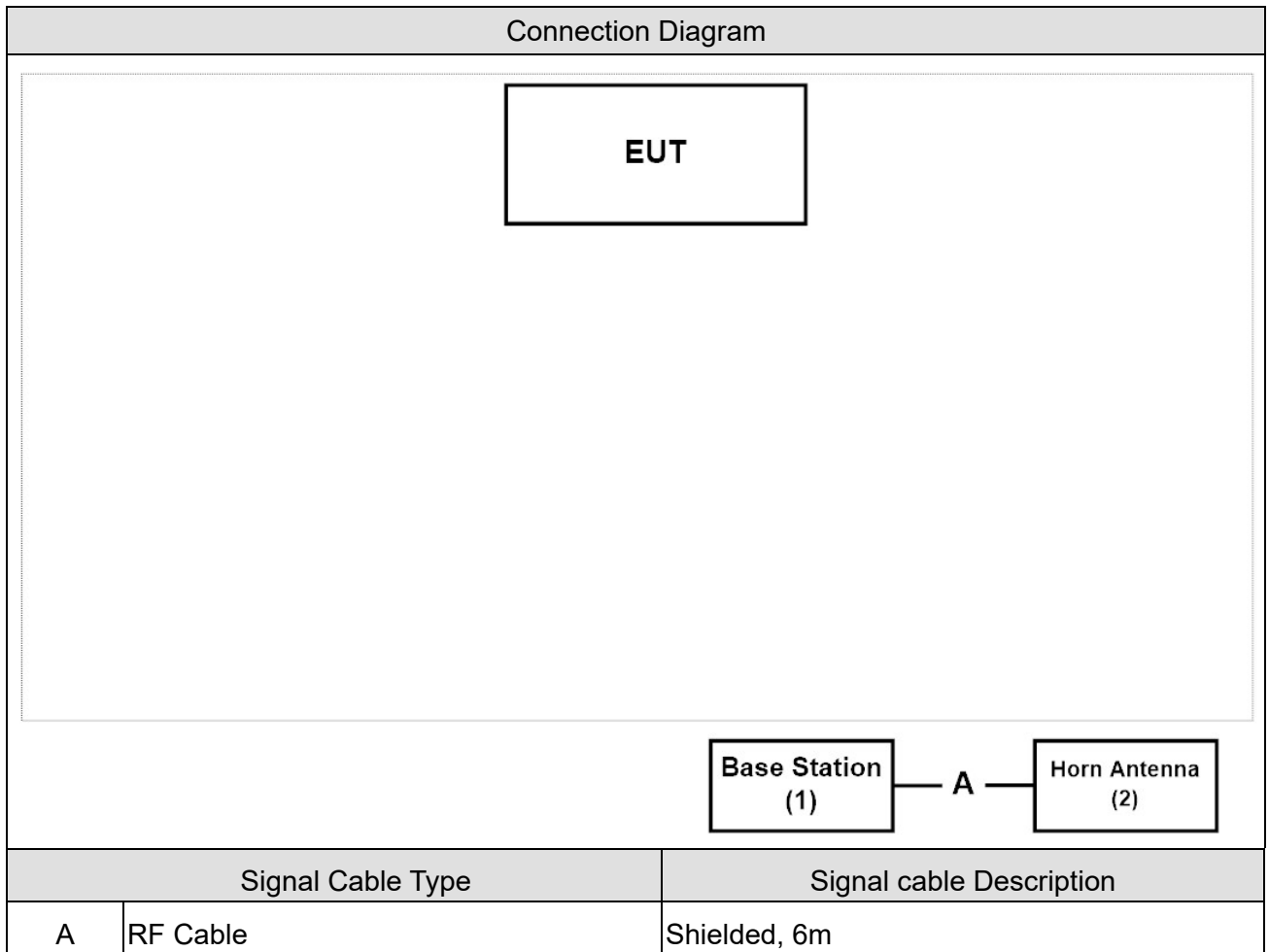
1. WWAN module ANT_1 support TX/RX functions and support 2UL CA PCC functions.
2. WWAN module ANT_3 and ANT_4 support RX functions.
3. WWAN module ANT_2 2UL CA SCC functions and RX functions.
4. The adapter mode and the PoE mode pre-scanning radiation has determined by the adapter mode is the worst case.
5. All operation modes has been verified and the report shows the worst case mode.

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord |
|----------------|--------------|------------|------------|--------|-------------------|
| 1 Base Station | R&S | CMW500 | 106071 | DoC | Non- Shielded, 2m |
| 2 Horn Antenna | Schwarzbeck | BBHA 9120D | 1640 | DoC | -- |

1.4. Configuration of Tested System



1.5. Operation Descriptions

| | |
|---|-------------------------------------------------------------|
| 1 | Setup the EUT and simulators as shown on 1.4. |
| 2 | Turn on the power of all equipment. |
| 3 | The EUT will continue receive the signal from LTE function. |
| 4 | Repeat the above procedure. |

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

B2

Uplink: 1850-1910MHz

Downlink: 1930-1990MHz

| LTE B2 | | | |
|-----------------------------------------|-------------------------------|-----------|--------|
| FCC Part 24 Subpart E | | | |
| Test item | FCC Reference section | FCC Limit | Result |
| RF Output Power | §2.1033 §2.1046 §24.232 | <2 Watts | Pass |
| Occupied Bandwidth | §2.1049 | N/A | Pass |
| Peak-to-average power ratio | §24.232 | <13 dB | Pass |
| Spurious Emissions | §2.1053 §24.238 | <-13dBm | Pass |
| Spurious Emissions at Antenna Terminals | §27.238 | <-13dBm | Pass |
| Frequency Stability | §2.1055 §24.235 | <±2.5 ppm | Pass |

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B5

Uplink: 824-849MHz

Downlink: 869-894MHz

| LTE B5 | | | |
|-----------------------------------------|-------------------------------|-----------|--------|
| FCC Part 22 Subpart H | | | |
| Test item | FCC Reference section | FCC Limit | Result |
| RF Output Power | §2.1033 §2.1046 §22.913 | <7 Watts | Pass |
| Occupied Bandwidth | §2.1049 | N/A | Pass |
| Peak-to-average power ratio | §22.913 | <13 dB | Pass |
| Spurious Emissions | §2.1053 §22.917 | <-13dBm | Pass |
| Spurious Emissions at Antenna Terminals | §22.917 | <-13dBm | Pass |
| Frequency Stability | §2.1055 §22.335 | <±2.5 ppm | Pass |

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B13

Uplink: 777-787MHz

Downlink: 746-756MHz

| LTE B13 | | | |
|-----------------------------------------|------------------------------|-----------------|--------|
| FCC Part 27 Subpart F | | | |
| Test item | FCC Reference section | FCC Limit | Result |
| RF Output Power | §2.1033 §2.1046 §27.50 | <3 Watts ERP | Pass |
| Occupied Bandwidth | §2.1049 | N/A | Pass |
| Peak-to-average power ratio | §27.50 | <-13 dB | Pass |
| Spurious Emissions | §2.1053 §27.53 | <-13dBm | Pass |
| Spurious Emissions at Antenna Terminals | §27.53 | <-13dBm | Pass |
| Frequency Stability | §2.1055 §27.54 | <±2.5 ppm | Pass |

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

B66

Uplink: 1710~1780MHz

Downlink: 2110~2200MHz

| LTE B66 | | | |
|-----------------------------------------|------------------------------|-----------|--------|
| FCC Part 27 Subpart L | | | |
| Test item | FCC Reference section | FCC Limit | Result |
| RF Output Power | §2.1033 §2.1046 §27.50 | <1 Watts | Pass |
| Occupied Bandwidth | §2.1049 | N/A | Pass |
| Peak-to-average power ratio | §27.50 | <13 dB | Pass |
| Spurious Emissions | §2.1053 §27.53 | <-13dBm | Pass |
| Spurious Emissions at Antenna Terminals | §27.53 | <-13dBm | Pass |
| Frequency Stability | §2.1055 §27.54 | <2.5 ppm | Pass |

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2. List of Test Equipment

RF Output Power / SR12-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Spectrum Analyzer | Keysight | N9030B | MY57140404 | 2020/06/03 | 2021/06/02 |
| Spectrum Analyzer | Keysight | N9010B | MY57110159 | 2020/04/15 | 2021/04/14 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |

Occupied Bandwidth / SR12-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Spectrum Analyzer | Keysight | N9030B | MY57140404 | 2020/06/03 | 2021/06/02 |
| Spectrum Analyzer | Keysight | N9010B | MY57110159 | 2020/04/15 | 2021/04/14 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |

Peak To Average Ratio / SR12-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Spectrum Analyzer | Keysight | N9030B | MY57140404 | 2020/06/03 | 2021/06/02 |
| Spectrum Analyzer | Keysight | N9010B | MY57110159 | 2020/04/15 | 2021/04/14 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |

Conducted Band Edge Emissions / SR12-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Spectrum Analyzer | Keysight | N9030B | MY57140404 | 2020/06/03 | 2021/06/02 |
| Spectrum Analyzer | Keysight | N9010B | MY57110159 | 2020/04/15 | 2021/04/14 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |

Spurious Emission / CB2-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-------------|------------|------------|----------------|
| Horn Antenna | Schwarzbeck | BBHA 9120D | 639 | 2020/06/04 | 2021/06/03 |
| Bilog Antenna | Teseq | CBL6112D | 23191 | 2020/06/12 | 2021/06/11 |
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Signal Analyzer | R&S | FSVA40 | 101455 | 2019/10/21 | 2020/10/20 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 202 | 2019/12/27 | 2020/12/26 |
| Pre-Amplifier | DEKRA | AP-400C | 201801231 | 2019/12/03 | 2020/12/02 |
| Pre-Amplifier | EMCI | EMC11830I | 980366 | 2019/12/03 | 2020/12/02 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 01656 | 2019/10/25 | 2020/10/24 |
| Pre-Amplifier | DEKRA | AP-025C | 12183122 | 2019/09/24 | 2020/09/23 |
| Signal Analyzer | R&S | FSV40 | 101435 | 2019/07/08 | 2020/07/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Coaxial Cable(16m) | Huber+Suhner | SF104 | CB2-H | 2019/07/25 | 2020/07/24 |
| EMI system | DEKRA | Version 1.0 | CB2-H | NA | NA |

Spurious Emissions at Antenna Terminals / SR12-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Spectrum Analyzer | Keysight | N9030B | MY57140404 | 2020/06/03 | 2021/06/02 |
| Spectrum Analyzer | Keysight | N9010B | MY57110159 | 2020/04/15 | 2021/04/14 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |

Frequency Stability Under Temperature & Voltage Variations / SR12-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|-------------------------------------|--------------|-----------|------------|------------|----------------|
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Spectrum Analyzer | Keysight | N9030B | MY57140404 | 2020/06/03 | 2021/06/02 |
| Spectrum Analyzer | Keysight | N9010B | MY57110159 | 2020/04/15 | 2021/04/14 |
| Wireless Conn. Tseter | R&S | CMW500 | 157118 | 2019/08/08 | 2020/08/07 |
| Wideband Radio Communication Tester | R&S | CMW500 | 106071 | 2020/02/03 | 2021/02/02 |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2.3. Measurement Uncertainty

| Test Item | Uncertainty |
|-----------------------------------------|--------------------------------------------------------------------|
| RF Output Power | $\pm 1.16\text{dB}$ |
| Peak To Average Ratio | $\pm 2.11\text{dB}$ |
| Spurious Emissions | $\pm 3.40\text{ dB below 1GHz}$ $\pm 3.46\text{ dB above 1GHz}$ |
| Spurious Emissions at Antenna Terminals | $\pm 3.40\text{ dB below 1GHz}$ $\pm 3.46\text{ dB above 1GHz}$ |

2.4. Test Environment

| Items | Test Item | Required | Test Site |
|------------------|-----------------------------------------|----------|-----------|
| Temperature (°C) | RF Output Power | 15 - 35 | 3 |
| Humidity (%RH) | | 20 - 75 | |
| Temperature (°C) | Occupied Bandwidth | 15 - 35 | 3 |
| Humidity (%RH) | | 20 - 75 | |
| Temperature (°C) | Peak To Average Ratio | 15 - 35 | 3 |
| Humidity (%RH) | | 20 - 75 | |
| Temperature (°C) | Spurious Emission | 15 - 35 | 2/3 |
| Humidity (%RH) | | 20 - 75 | |
| Temperature (°C) | Spurious Emissions at Antenna Terminals | 15 - 35 | 3 |
| Humidity (%RH) | | 20 - 75 | |
| Temperature (°C) | Frequency Stability | 15 - 35 | 3 |
| Humidity (%RH) | | 20 - 75 | |

Note: Test site information refers to Laboratory Information.

USA : FCC Registration Number: TW3024

Canada CAB identifier : TW3024

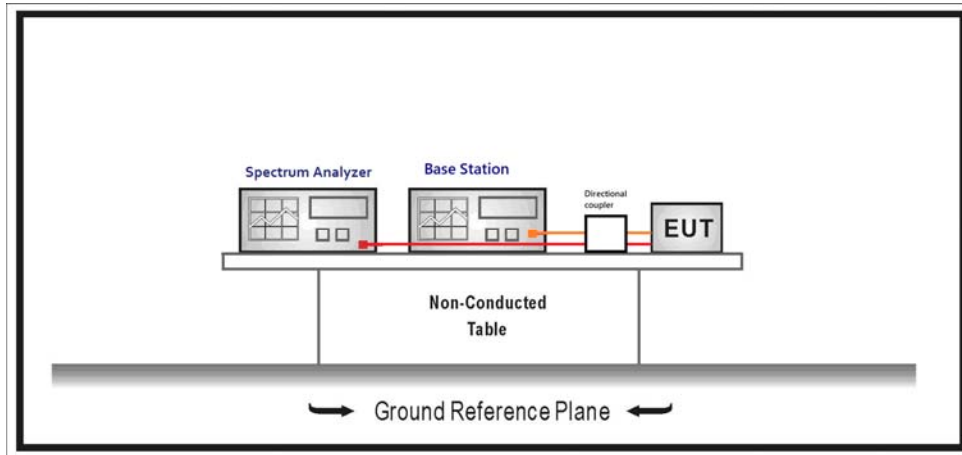
The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

| | |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Laboratory | DEKRA Testing and Certification Co., Ltd. |
| Address | 1. No. 75-2, 3rd Lin, WangYe Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 3. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. |
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| Fax number | 1. +886-3-592-8859 2. +886-3-582-8958 3. +886-3-582-8958 |
| E mail address | info.tw@dekra.com |
| Website | http://www.dekra.com.tw |

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

- The RF output of the transmitter was connected to base station simulator.
- The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement..
- Set EUT at maximum average power by base station emulator.
- Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Effective Isotropic Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi)

Effective Radiated Power = Conducted Power(dBm) + Antenna Gain(dBi) - 2.15dB

3.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause5.2.4

ANSI C63.26-2015 Sub-clause 5.2.4.2

3.4. Test Result

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 1: LTE Band 2 | | |
| Date of Test | 2020/06/08~2020/06/10 | Test Site | SR12-H |
| Temperature (°C) | 24 | Humidity (%RH) | 60 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 1.4MHz | 18607 1850.7 | QPSK | 1 | 0 | 0 | 23.52 | 0.337 | 2 |
| | | QPSK | | 2 | | 23.50 | 0.336 | 2 |
| | | QPSK | | 5 | | 23.49 | 0.335 | 2 |
| | | QPSK | 6 | 0 | 1 | 22.63 | 0.275 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.23 | 0.251 | 2 |
| | | 16-QAM | | 2 | | 22.24 | 0.251 | 2 |
| | | 16-QAM | | 5 | | 22.27 | 0.253 | 2 |
| | | 16-QAM | 6 | 0 | 2 | 21.60 | 0.217 | 2 |
| | 18900 1880 | QPSK | 1 | 0 | 0 | 23.68 | 0.350 | 2 |
| | | QPSK | | 2 | | 23.66 | 0.348 | 2 |
| | | QPSK | | 5 | | 23.72 | 0.353 | 2 |
| | | QPSK | 6 | 0 | 1 | 22.71 | 0.280 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.69 | 0.279 | 2 |
| | | 16-QAM | | 2 | | 22.72 | 0.281 | 2 |
| | | 16-QAM | | 5 | | 22.76 | 0.283 | 2 |
| | | 16-QAM | 6 | 0 | 2 | 22.92 | 0.294 | 2 |
| | 19193 1909.3 | QPSK | 1 | 0 | 0 | 23.54 | 0.339 | 2 |
| | | QPSK | | 2 | | 23.53 | 0.338 | 2 |
| | | QPSK | | 5 | | 23.60 | 0.344 | 2 |
| | | QPSK | 6 | 0 | 1 | 22.58 | 0.272 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.46 | 0.264 | 2 |
| | | 16-QAM | | 2 | | 22.44 | 0.263 | 2 |
| | | 16-QAM | | 5 | | 22.46 | 0.264 | 2 |
| | | 16-QAM | 6 | 0 | 2 | 21.60 | 0.217 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 1.4MHz | 18607 1850.7 | 64-QAM | 1 | 0 | 1 | 21.47 | 0.210 | 2 |
| | | 64-QAM | | 2 | | 21.79 | 0.226 | 2 |
| | | 64-QAM | | 5 | | 21.86 | 0.230 | 2 |
| | | 64-QAM | 6 | 0 | 2 | 20.63 | 0.173 | 2 |
| | 18900 1880 | 64-QAM | 1 | 0 | 1 | 21.36 | 0.205 | 2 |
| | | 64-QAM | | 2 | | 21.37 | 0.206 | 2 |
| | | 64-QAM | | 5 | | 21.17 | 0.196 | 2 |
| | | 64-QAM | 6 | 0 | 2 | 20.49 | 0.168 | 2 |
| | 19193 1909.3 | 64-QAM | 1 | 0 | 1 | 20.77 | 0.179 | 2 |
| | | 64-QAM | | 2 | | 20.91 | 0.185 | 2 |
| | | 64-QAM | | 5 | | 20.63 | 0.173 | 2 |
| | | 64-QAM | 6 | 0 | 2 | 20.17 | 0.156 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 3MHz | 18615 1851.5 | QPSK | 1 | 0 | 0 | 23.64 | 0.347 | 2 |
| | | QPSK | | 7 | | 23.68 | 0.350 | 2 |
| | | QPSK | | 14 | | 23.71 | 0.352 | 2 |
| | | QPSK | 15 | 0 | 1 | 22.88 | 0.291 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.34 | 0.324 | 2 |
| | | 16-QAM | | 7 | | 23.29 | 0.320 | 2 |
| | | 16-QAM | | 14 | | 23.34 | 0.324 | 2 |
| | | 16-QAM | 15 | 0 | 2 | 21.97 | 0.236 | 2 |
| | 18900 1880 | QPSK | 1 | 0 | 0 | 23.78 | 0.358 | 2 |
| | | QPSK | | 7 | | 23.85 | 0.364 | 2 |
| | | QPSK | | 14 | | 23.88 | 0.366 | 2 |
| | | QPSK | 15 | 0 | 1 | 22.83 | 0.288 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.82 | 0.287 | 2 |
| | | 16-QAM | | 7 | | 22.88 | 0.291 | 2 |
| | | 16-QAM | | 14 | | 22.91 | 0.293 | 2 |
| | | 16-QAM | 15 | 0 | 2 | 21.87 | 0.231 | 2 |
| | 19185 1908.5 | QPSK | 1 | 0 | 0 | 23.66 | 0.348 | 2 |
| | | QPSK | | 7 | | 23.64 | 0.347 | 2 |
| | | QPSK | | 14 | | 23.70 | 0.352 | 2 |
| | | QPSK | 15 | 0 | 1 | 22.70 | 0.279 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.54 | 0.269 | 2 |
| | | 16-QAM | | 7 | | 22.60 | 0.273 | 2 |
| | | 16-QAM | | 14 | | 22.56 | 0.270 | 2 |
| | | 16-QAM | 15 | 0 | 2 | 21.64 | 0.219 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 3MHz | 18615 1851.5 | 64-QAM | 1 | 0 | 1 | 21.11 | 0.194 | 2 |
| | | 64-QAM | | 7 | | 21.25 | 0.200 | 2 |
| | | 64-QAM | | 14 | | 21.18 | 0.197 | 2 |
| | | 64-QAM | 15 | 0 | 2 | 20.58 | 0.171 | 2 |
| | 18900 1880 | 64-QAM | 1 | 0 | 1 | 21.19 | 0.197 | 2 |
| | | 64-QAM | | 7 | | 21.21 | 0.198 | 2 |
| | | 64-QAM | | 14 | | 21.25 | 0.200 | 2 |
| | | 64-QAM | 15 | 0 | 2 | 20.60 | 0.172 | 2 |
| | 19185 1908.5 | 64-QAM | 1 | 0 | 1 | 20.86 | 0.183 | 2 |
| | | 64-QAM | | 7 | | 20.84 | 0.182 | 2 |
| | | 64-QAM | | 14 | | 20.63 | 0.173 | 2 |
| | | 64-QAM | 15 | 0 | 2 | 20.33 | 0.162 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 5MHz | 18625 1852.5 | QPSK | 1 | 0 | 0 | 23.82 | 0.361 | 2 |
| | | QPSK | | 12 | | 23.80 | 0.360 | 2 |
| | | QPSK | | 24 | | 23.70 | 0.352 | 2 |
| | | QPSK | 25 | 0 | 1 | 22.81 | 0.286 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.82 | 0.287 | 2 |
| | | 16-QAM | | 12 | | 22.90 | 0.292 | 2 |
| | | 16-QAM | | 24 | | 22.92 | 0.294 | 2 |
| | | 16-QAM | 25 | 0 | 2 | 21.89 | 0.232 | 2 |
| | 18900 1880 | QPSK | 1 | 0 | 0 | 23.70 | 0.352 | 2 |
| | | QPSK | | 12 | | 23.77 | 0.357 | 2 |
| | | QPSK | | 24 | | 23.88 | 0.366 | 2 |
| | | QPSK | 25 | 0 | 1 | 22.87 | 0.290 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.82 | 0.287 | 2 |
| | | 16-QAM | | 12 | | 22.86 | 0.290 | 2 |
| | | 16-QAM | | 24 | | 22.96 | 0.296 | 2 |
| | | 16-QAM | 25 | 0 | 2 | 21.88 | 0.231 | 2 |
| | 19175 1907.5 | QPSK | 1 | 0 | 0 | 23.64 | 0.347 | 2 |
| | | QPSK | | 12 | | 23.62 | 0.345 | 2 |
| | | QPSK | | 24 | | 23.67 | 0.349 | 2 |
| | | QPSK | 25 | 0 | 1 | 22.72 | 0.281 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.09 | 0.305 | 2 |
| | | 16-QAM | | 12 | | 23.11 | 0.307 | 2 |
| | | 16-QAM | | 24 | | 23.13 | 0.308 | 2 |
| | | 16-QAM | 25 | 0 | 2 | 21.72 | 0.223 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 5MHz | 18625 1852.5 | 64-QAM | 1 | 0 | 1 | 21.10 | 0.193 | 2 |
| | | 64-QAM | | 12 | | 21.18 | 0.197 | 2 |
| | | 64-QAM | | 24 | | 21.20 | 0.198 | 2 |
| | | 64-QAM | 25 | 0 | 2 | 20.73 | 0.177 | 2 |
| | 18900 1880 | 64-QAM | 1 | 0 | 1 | 21.16 | 0.196 | 2 |
| | | 64-QAM | | 12 | | 21.22 | 0.199 | 2 |
| | | 64-QAM | | 24 | | 21.26 | 0.200 | 2 |
| | | 64-QAM | 25 | 0 | 2 | 20.72 | 0.177 | 2 |
| | 19175 1907.5 | 64-QAM | 1 | 0 | 1 | 21.11 | 0.194 | 2 |
| | | 64-QAM | | 12 | | 21.27 | 0.201 | 2 |
| | | 64-QAM | | 24 | | 21.13 | 0.195 | 2 |
| | | 64-QAM | 25 | 0 | 2 | 20.35 | 0.163 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 10MHz | 18650 1855 | QPSK | 1 | 0 | 0 | 23.70 | 0.352 | 2 |
| | | QPSK | | 24 | | 23.69 | 0.351 | 2 |
| | | QPSK | | 49 | | 23.74 | 0.355 | 2 |
| | | QPSK | 50 | 0 | 1 | 22.90 | 0.292 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.33 | 0.323 | 2 |
| | | 16-QAM | | 24 | | 23.29 | 0.320 | 2 |
| | | 16-QAM | | 49 | | 23.34 | 0.324 | 2 |
| | | 16-QAM | 50 | 0 | 2 | 21.95 | 0.235 | 2 |
| | 18900 1880 | QPSK | 1 | 0 | 0 | 23.87 | 0.366 | 2 |
| | | QPSK | | 24 | | 23.81 | 0.361 | 2 |
| | | QPSK | | 49 | | 23.69 | 0.351 | 2 |
| | | QPSK | 50 | 0 | 1 | 22.84 | 0.288 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.77 | 0.284 | 2 |
| | | 16-QAM | | 24 | | 22.75 | 0.282 | 2 |
| | | 16-QAM | | 49 | | 22.85 | 0.289 | 2 |
| | | 16-QAM | 50 | 0 | 2 | 21.87 | 0.231 | 2 |
| | 19150 1905 | QPSK | 1 | 0 | 0 | 23.70 | 0.352 | 2 |
| | | QPSK | | 24 | | 23.61 | 0.344 | 2 |
| | | QPSK | | 49 | | 23.66 | 0.348 | 2 |
| | | QPSK | 50 | 0 | 1 | 22.78 | 0.284 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.61 | 0.274 | 2 |
| | | 16-QAM | | 24 | | 22.45 | 0.264 | 2 |
| | | 16-QAM | | 49 | | 22.58 | 0.272 | 2 |
| | | 16-QAM | 50 | 0 | 2 | 21.81 | 0.228 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP | |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|---|
| Band 2 10MHz | 18650 1855 | 64-QAM | 1 | 0 | 1 | 21.22 | 0.199 | 2 | |
| | | 64-QAM | | 24 | | 21.29 | 0.202 | 2 | |
| | | 64-QAM | | 49 | | 21.28 | 0.201 | 2 | |
| | | 64-QAM | 50 | | 0 | 2 | 20.65 | 0.174 | 2 |
| | 18900 1880 | 64-QAM | 1 | 0 | 1 | 21.28 | 0.201 | 2 | |
| | | 64-QAM | | 24 | | 21.29 | 0.202 | 2 | |
| | | 64-QAM | | 49 | | 21.14 | 0.195 | 2 | |
| | | 64-QAM | 50 | | 0 | 2 | 20.70 | 0.176 | 2 |
| | 19150 1905 | 64-QAM | 1 | 0 | 1 | 21.17 | 0.196 | 2 | |
| | | 64-QAM | | 24 | | 21.26 | 0.200 | 2 | |
| | | 64-QAM | | 49 | | 21.13 | 0.195 | 2 | |
| | | 64-QAM | 50 | | 0 | 2 | 20.27 | 0.160 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 15MHz | 18675 1857.5 | QPSK | 1 | 0 | 0 | 23.60 | 0.344 | 2 |
| | | QPSK | | 37 | | 23.69 | 0.351 | 2 |
| | | QPSK | | 74 | | 23.78 | 0.358 | 2 |
| | | QPSK | 75 | 0 | 1 | 22.88 | 0.291 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.28 | 0.319 | 2 |
| | | 16-QAM | | 37 | | 23.30 | 0.321 | 2 |
| | | 16-QAM | | 74 | | 23.44 | 0.331 | 2 |
| | | 16-QAM | 75 | 0 | 2 | 21.95 | 0.235 | 2 |
| | 18900 1880 | QPSK | 1 | 0 | 0 | 23.74 | 0.355 | 2 |
| | | QPSK | | 37 | | 23.71 | 0.352 | 2 |
| | | QPSK | | 74 | | 23.75 | 0.356 | 2 |
| | | QPSK | 75 | 0 | 1 | 22.83 | 0.288 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.10 | 0.306 | 2 |
| | | 16-QAM | | 37 | | 23.09 | 0.305 | 2 |
| | | 16-QAM | | 74 | | 23.11 | 0.307 | 2 |
| | | 16-QAM | 75 | 0 | 2 | 21.84 | 0.229 | 2 |
| | 19125 1902.5 | QPSK | 1 | 0 | 0 | 23.73 | 0.354 | 2 |
| | | QPSK | | 37 | | 23.70 | 0.352 | 2 |
| | | QPSK | | 74 | | 23.74 | 0.355 | 2 |
| | | QPSK | 75 | 0 | 1 | 22.71 | 0.280 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.60 | 0.273 | 2 |
| | | 16-QAM | | 37 | | 22.66 | 0.277 | 2 |
| | | 16-QAM | | 74 | | 22.68 | 0.278 | 2 |
| | | 16-QAM | 75 | 0 | 2 | 21.80 | 0.227 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP | |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|---|
| Band 2 15MHz | 18675 1857.5 | 64-QAM | 1 | 0 | 1 | 21.41 | 0.207 | 2 | |
| | | 64-QAM | | 37 | | 21.34 | 0.204 | 2 | |
| | | 64-QAM | | 74 | | 21.38 | 0.206 | 2 | |
| | | 64-QAM | 75 | | 0 | 2 | 20.65 | 0.174 | 2 |
| | 18900 1880 | 64-QAM | 1 | 0 | 1 | 21.37 | 0.206 | 2 | |
| | | 64-QAM | | 37 | | 21.28 | 0.201 | 2 | |
| | | 64-QAM | | 74 | | 21.31 | 0.203 | 2 | |
| | | 64-QAM | 75 | | 0 | 2 | 20.49 | 0.168 | 2 |
| | 19125 1902.5 | 64-QAM | 1 | 0 | 1 | 21.14 | 0.195 | 2 | |
| | | 64-QAM | | 37 | | 21.16 | 0.196 | 2 | |
| | | 64-QAM | | 74 | | 21.29 | 0.202 | 2 | |
| | | 64-QAM | 75 | | 0 | 2 | 20.69 | 0.176 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 20MHz | 18700 1860 | QPSK | 1 | 0 | 0 | 23.86 | 0.365 | 2 |
| | | QPSK | | 49 | | 23.72 | 0.353 | 2 |
| | | QPSK | | 99 | | 23.79 | 0.359 | 2 |
| | | QPSK | 100 | 0 | 1 | 22.90 | 0.292 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.23 | 0.316 | 2 |
| | | 16-QAM | | 49 | | 23.25 | 0.317 | 2 |
| | | 16-QAM | | 99 | | 23.30 | 0.321 | 2 |
| | | 16-QAM | 100 | 0 | 2 | 21.92 | 0.233 | 2 |
| | 18900 1880 | QPSK | 1 | 0 | 0 | 23.89 | 0.367 | 2 |
| | | QPSK | | 49 | | 23.66 | 0.348 | 2 |
| | | QPSK | | 99 | | 23.70 | 0.352 | 2 |
| | | QPSK | 100 | 0 | 1 | 22.91 | 0.293 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 23.05 | 0.303 | 2 |
| | | 16-QAM | | 49 | | 23.06 | 0.303 | 2 |
| | | 16-QAM | | 99 | | 23.10 | 0.306 | 2 |
| | | 16-QAM | 100 | 0 | 2 | 21.90 | 0.232 | 2 |
| | 19100 1900 | QPSK | 1 | 0 | 0 | 23.82 | 0.361 | 2 |
| | | QPSK | | 49 | | 23.80 | 0.360 | 2 |
| | | QPSK | | 99 | | 23.79 | 0.359 | 2 |
| | | QPSK | 100 | 0 | 1 | 22.82 | 0.287 | 2 |
| | | 16-QAM | 1 | 0 | 1 | 22.88 | 0.291 | 2 |
| | | 16-QAM | | 49 | | 22.80 | 0.286 | 2 |
| | | 16-QAM | | 99 | | 22.76 | 0.283 | 2 |
| | | 16-QAM | 100 | 0 | 2 | 21.84 | 0.229 | 2 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 2 20MHz | 18700 1860 | 64-QAM | 1 | 0 | 1 | 21.04 | 0.191 | 2 |
| | | 64-QAM | | 49 | | 21.32 | 0.203 | 2 |
| | | 64-QAM | | 99 | | 21.07 | 0.192 | 2 |
| | | 64-QAM | 100 | 0 | 2 | 20.60 | 0.172 | 2 |
| | 18900 1880 | 64-QAM | 1 | 0 | 1 | 21.10 | 0.193 | 2 |
| | | 64-QAM | | 49 | | 21.13 | 0.195 | 2 |
| | | 64-QAM | | 99 | | 21.09 | 0.193 | 2 |
| | | 64-QAM | 100 | 0 | 2 | 20.58 | 0.171 | 2 |
| | 19100 1900 | 64-QAM | 1 | 0 | 1 | 21.05 | 0.191 | 2 |
| | | 64-QAM | | 49 | | 20.72 | 0.177 | 2 |
| | | 64-QAM | | 99 | | 21.10 | 0.193 | 2 |
| | | 64-QAM | 100 | 0 | 2 | 20.16 | 0.156 | 2 |

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 2: LTE Band 5 | | |
| Date of Test | 2020/06/08~2020/06/10 | Test Site | SR12-H |
| Temperature (°C) | 24 | Humidity (%RH) | 60 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 5 1.4MHz | 20407 824.7 | QPSK | 1 | 0 | 0 | 24.35 | 0.118 | 7 |
| | | QPSK | | 2 | | 24.32 | 0.117 | 7 |
| | | QPSK | | 5 | | 24.30 | 0.116 | 7 |
| | | QPSK | 6 | 0 | 1 | 23.42 | 0.095 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.11 | 0.089 | 7 |
| | | 16-QAM | | 2 | | 23.10 | 0.088 | 7 |
| | | 16-QAM | | 5 | | 23.06 | 0.087 | 7 |
| | | 16-QAM | 6 | 0 | 2 | 22.41 | 0.075 | 7 |
| | 20525 836.5 | QPSK | 1 | 0 | 0 | 24.26 | 0.115 | 7 |
| | | QPSK | | 2 | | 24.22 | 0.114 | 7 |
| | | QPSK | | 5 | | 24.30 | 0.116 | 7 |
| | | QPSK | 6 | 0 | 1 | 23.38 | 0.094 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 22.99 | 0.086 | 7 |
| | | 16-QAM | | 2 | | 23.01 | 0.086 | 7 |
| | | 16-QAM | | 5 | | 23.05 | 0.087 | 7 |
| | | 16-QAM | 6 | 0 | 2 | 22.32 | 0.074 | 7 |
| | 20643 848.3 | QPSK | 1 | 0 | 0 | 24.33 | 0.117 | 7 |
| | | QPSK | | 2 | | 24.29 | 0.116 | 7 |
| | | QPSK | | 5 | | 24.27 | 0.116 | 7 |
| | | QPSK | 6 | 0 | 1 | 23.35 | 0.094 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.31 | 0.093 | 7 |
| | | 16-QAM | | 2 | | 23.20 | 0.090 | 7 |
| | | 16-QAM | | 5 | | 23.32 | 0.093 | 7 |
| | | 16-QAM | 6 | 0 | 2 | 22.25 | 0.073 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 5 1.4MHz | 20407 824.7 | 64-QAM | 1 | 0 | 1 | 22.03 | 0.069 | 7 |
| | | 64-QAM | | 2 | | 21.95 | 0.068 | 7 |
| | | 64-QAM | | 5 | | 21.59 | 0.062 | 7 |
| | | 64-QAM | 6 | 0 | 2 | 21.03 | 0.055 | 7 |
| | 20525 836.5 | 64-QAM | 1 | 0 | 1 | 21.56 | 0.062 | 7 |
| | | 64-QAM | | 2 | | 21.52 | 0.061 | 7 |
| | | 64-QAM | | 5 | | 21.50 | 0.061 | 7 |
| | | 64-QAM | 6 | 0 | 2 | 21.22 | 0.057 | 7 |
| | 20643 848.3 | 64-QAM | 1 | 0 | 1 | 21.48 | 0.061 | 7 |
| | | 64-QAM | | 2 | | 21.40 | 0.060 | 7 |
| | | 64-QAM | | 5 | | 21.53 | 0.062 | 7 |
| | | 64-QAM | 6 | 0 | 2 | 20.76 | 0.052 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 5 3MHz | 20415 825.5 | QPSK | 1 | 0 | 0 | 24.38 | 0.119 | 7 |
| | | QPSK | | 7 | | 24.35 | 0.118 | 7 |
| | | QPSK | | 14 | | 24.26 | 0.115 | 7 |
| | | QPSK | 15 | 0 | 1 | 23.53 | 0.097 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 24.16 | 0.113 | 7 |
| | | 16-QAM | | 7 | | 24.11 | 0.111 | 7 |
| | | 16-QAM | | 14 | | 23.94 | 0.107 | 7 |
| | | 16-QAM | 15 | 0 | 2 | 22.60 | 0.079 | 7 |
| | 20525 836.5 | QPSK | 1 | 0 | 0 | 24.49 | 0.122 | 7 |
| | | QPSK | | 7 | | 24.45 | 0.121 | 7 |
| | | QPSK | | 14 | | 24.43 | 0.120 | 7 |
| | | QPSK | 15 | 0 | 1 | 23.45 | 0.096 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.49 | 0.097 | 7 |
| | | 16-QAM | | 7 | | 23.48 | 0.096 | 7 |
| | | 16-QAM | | 14 | | 23.50 | 0.097 | 7 |
| | | 16-QAM | 15 | 0 | 2 | 22.50 | 0.077 | 7 |
| | 20635 847.5 | QPSK | 1 | 0 | 0 | 24.55 | 0.123 | 7 |
| | | QPSK | | 7 | | 24.46 | 0.121 | 7 |
| | | QPSK | | 14 | | 24.48 | 0.121 | 7 |
| | | QPSK | 15 | 0 | 1 | 23.53 | 0.097 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.51 | 0.097 | 7 |
| | | 16-QAM | | 7 | | 23.50 | 0.097 | 7 |
| | | 16-QAM | | 14 | | 23.34 | 0.093 | 7 |
| | | 16-QAM | 15 | 0 | 2 | 22.51 | 0.077 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 5 3MHz | 20415 825.5 | 64-QAM | 1 | 0 | 1 | 21.84 | 0.066 | 7 |
| | | 64-QAM | | 7 | | 22.14 | 0.071 | 7 |
| | | 64-QAM | | 14 | | 22.03 | 0.069 | 7 |
| | | 64-QAM | 15 | 0 | 2 | 21.32 | 0.059 | 7 |
| | 20525 836.5 | 64-QAM | 1 | 0 | 1 | 21.95 | 0.068 | 7 |
| | | 64-QAM | | 7 | | 21.97 | 0.068 | 7 |
| | | 64-QAM | | 14 | | 21.85 | 0.066 | 7 |
| | | 64-QAM | 15 | 0 | 2 | 21.37 | 0.059 | 7 |
| | 20635 847.5 | 64-QAM | 1 | 0 | 1 | 21.54 | 0.062 | 7 |
| | | 64-QAM | | 7 | | 21.43 | 0.060 | 7 |
| | | 64-QAM | | 14 | | 21.47 | 0.061 | 7 |
| | | 64-QAM | 15 | 0 | 2 | 20.85 | 0.053 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 5 5MHz | 20425 826.5 | QPSK | 1 | 0 | 0 | 24.50 | 0.122 | 7 |
| | | QPSK | | 12 | | 24.61 | 0.125 | 7 |
| | | QPSK | | 24 | | 24.50 | 0.122 | 7 |
| | | QPSK | 25 | 0 | 1 | 23.57 | 0.098 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.62 | 0.100 | 7 |
| | | 16-QAM | | 12 | | 23.67 | 0.101 | 7 |
| | | 16-QAM | | 24 | | 23.62 | 0.100 | 7 |
| | | 16-QAM | 25 | 0 | 2 | 22.65 | 0.080 | 7 |
| | 20525 836.5 | QPSK | 1 | 0 | 0 | 24.58 | 0.124 | 7 |
| | | QPSK | | 12 | | 24.57 | 0.124 | 7 |
| | | QPSK | | 24 | | 24.54 | 0.123 | 7 |
| | | QPSK | 25 | 0 | 1 | 23.58 | 0.099 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.66 | 0.100 | 7 |
| | | 16-QAM | | 12 | | 23.73 | 0.102 | 7 |
| | | 16-QAM | | 24 | | 23.64 | 0.100 | 7 |
| | | 16-QAM | 25 | 0 | 2 | 22.61 | 0.079 | 7 |
| | 20625 846.5 | QPSK | 1 | 0 | 0 | 24.56 | 0.124 | 7 |
| | | QPSK | | 12 | | 24.55 | 0.123 | 7 |
| | | QPSK | | 24 | | 24.49 | 0.122 | 7 |
| | | QPSK | 25 | 0 | 1 | 23.56 | 0.098 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 24.00 | 0.109 | 7 |
| | | 16-QAM | | 12 | | 24.01 | 0.109 | 7 |
| | | 16-QAM | | 24 | | 23.99 | 0.108 | 7 |
| | | 16-QAM | 25 | 0 | 2 | 22.52 | 0.077 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 5 5MHz | 20425 826.5 | 64-QAM | 1 | 0 | 1 | 21.92 | 0.067 | 7 |
| | | 64-QAM | | 12 | | 22.21 | 0.072 | 7 |
| | | 64-QAM | | 24 | | 22.01 | 0.069 | 7 |
| | | 64-QAM | 25 | 0 | 2 | 21.44 | 0.060 | 7 |
| | 20525 836.5 | 64-QAM | 1 | 0 | 1 | 21.95 | 0.068 | 7 |
| | | | | 12 | | 22.09 | 0.070 | 7 |
| | | | | 24 | | 21.85 | 0.066 | 7 |
| | | | | 25 | 0 | 2 | 21.36 | 0.059 |
| | 20625 846.5 | 64-QAM | 1 | 0 | 1 | 21.92 | 0.067 | 7 |
| | | 64-QAM | | 12 | | 21.53 | 0.062 | 7 |
| | | 64-QAM | | 24 | | 21.42 | 0.060 | 7 |
| | | 64-QAM | 25 | 0 | 2 | 21.23 | 0.057 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 5 10MHz | 20450 829 | QPSK | 1 | 0 | 0 | 24.64 | 0.126 | 7 |
| | | QPSK | | 24 | | 24.43 | 0.120 | 7 |
| | | QPSK | | 49 | | 24.48 | 0.121 | 7 |
| | | QPSK | 50 | 0 | 1 | 23.55 | 0.098 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 24.08 | 0.111 | 7 |
| | | 16-QAM | | 24 | | 24.05 | 0.110 | 7 |
| | | 16-QAM | | 49 | | 24.03 | 0.109 | 7 |
| | | 16-QAM | 50 | 0 | 2 | 22.65 | 0.080 | 7 |
| | 20525 836.5 | QPSK | 1 | 0 | 0 | 24.60 | 0.125 | 7 |
| | | | | 24 | | 24.58 | 0.124 | 7 |
| | | | | 49 | | 24.53 | 0.123 | 7 |
| | | | 50 | 0 | 1 | 23.53 | 0.097 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.59 | 0.099 | 7 |
| | | | | 24 | | 23.49 | 0.097 | 7 |
| | | | | 49 | | 23.42 | 0.095 | 7 |
| | | | 50 | 0 | 2 | 22.61 | 0.079 | 7 |
| | 20600 844 | QPSK | 1 | 0 | 0 | 24.58 | 0.124 | 7 |
| | | | | 24 | | 24.54 | 0.123 | 7 |
| | | | | 49 | | 24.46 | 0.121 | 7 |
| | | QPSK | 50 | 0 | 1 | 23.53 | 0.097 | 7 |
| | | 16-QAM | 1 | 0 | 1 | 23.45 | 0.096 | 7 |
| | | | | 24 | | 23.41 | 0.095 | 7 |
| | | | | 49 | | 23.36 | 0.094 | 7 |
| | | | 50 | 0 | 2 | 22.54 | 0.078 | 7 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 5 10MHz | 20450 829 | 64-QAM | 1 | 0 | 1 | 22.03 | 0.069 | 7 |
| | | 64-QAM | | 24 | | 22.09 | 0.070 | 7 |
| | | 64-QAM | | 49 | | 22.08 | 0.070 | 7 |
| | | 64-QAM | 50 | 0 | 2 | 21.50 | 0.061 | 7 |
| | 20525 836.5 | 64-QAM | 1 | 0 | 1 | 21.84 | 0.066 | 7 |
| | | 64-QAM | | 24 | | 21.99 | 0.068 | 7 |
| | | 64-QAM | | 49 | | 22.00 | 0.069 | 7 |
| | | 64-QAM | 50 | 0 | 2 | 21.34 | 0.059 | 7 |
| | 20600 844 | 64-QAM | 1 | 0 | 1 | 21.76 | 0.065 | 7 |
| | | 64-QAM | | 24 | | 21.62 | 0.063 | 7 |
| | | 64-QAM | | 49 | | 21.57 | 0.062 | 7 |
| | | 64-QAM | 50 | 0 | 2 | 21.36 | 0.059 | 7 |

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 3: LTE Band 13 | | |
| Date of Test | 2020/06/08~2020/06/10 | Test Site | SR12-H |
| Temperature (°C) | 24 | Humidity (%RH) | 60 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 13 5MHz | 23205 779.5 | QPSK | 1 | 0 | 0 | 24.02 | 0.131 | 3 |
| | | QPSK | | 12 | | 23.85 | 0.126 | 3 |
| | | QPSK | | 24 | | 23.95 | 0.129 | 3 |
| | | QPSK | 25 | 0 | 1 | 23.36 | 0.113 | 3 |
| | | 16-QAM | 1 | 0 | 1 | 23.17 | 0.108 | 3 |
| | | 16-QAM | | 12 | | 23.32 | 0.112 | 3 |
| | | 16-QAM | | 24 | | 23.30 | 0.111 | 3 |
| | | 16-QAM | 25 | 0 | 2 | 22.33 | 0.089 | 3 |
| | 23230 782 | QPSK | 1 | 0 | 0 | 24.07 | 0.133 | 3 |
| | | QPSK | | 12 | | 24.03 | 0.132 | 3 |
| | | QPSK | | 24 | | 24.08 | 0.133 | 3 |
| | | QPSK | 25 | 0 | 1 | 23.30 | 0.111 | 3 |
| | | 16-QAM | 1 | 0 | 1 | 23.62 | 0.120 | 3 |
| | | 16-QAM | | 12 | | 23.69 | 0.122 | 3 |
| | | 16-QAM | | 24 | | 23.70 | 0.122 | 3 |
| | | 16-QAM | 25 | 0 | 2 | 22.31 | 0.089 | 3 |
| | 23255 784.5 | QPSK | 1 | 0 | 0 | 24.29 | 0.140 | 3 |
| | | QPSK | | 12 | | 24.18 | 0.136 | 3 |
| | | QPSK | | 24 | | 24.19 | 0.136 | 3 |
| | | QPSK | 25 | 0 | 1 | 23.31 | 0.111 | 3 |
| | | 16-QAM | 1 | 0 | 1 | 23.15 | 0.107 | 3 |
| | | 16-QAM | | 12 | | 23.35 | 0.112 | 3 |
| | | 16-QAM | | 24 | | 23.29 | 0.111 | 3 |
| | | 16-QAM | 25 | 0 | 2 | 22.37 | 0.090 | 3 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 13 5MHz | 23205 779.5 | 64-QAM | 1 | 0 | 1 | 21.76 | 0.078 | 3 |
| | | 64-QAM | | 12 | | 22.06 | 0.084 | 3 |
| | | 64-QAM | | 24 | | 22.08 | 0.084 | 3 |
| | | 64-QAM | 25 | 0 | 2 | 21.35 | 0.071 | 3 |
| | 23230 782 | 64-QAM | 1 | 0 | 1 | 21.75 | 0.078 | 3 |
| | | 64-QAM | | 12 | | 21.88 | 0.080 | 3 |
| | | 64-QAM | | 24 | | 21.90 | 0.081 | 3 |
| | | 64-QAM | 25 | 0 | 2 | 21.34 | 0.071 | 3 |
| | 23255 784.5 | 64-QAM | 1 | 0 | 1 | 21.85 | 0.080 | 3 |
| | | 64-QAM | | 12 | | 22.01 | 0.083 | 3 |
| | | 64-QAM | | 24 | | 21.88 | 0.080 | 3 |
| | | 64-QAM | 25 | 0 | 2 | 21.33 | 0.071 | 3 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 13 10MHz | 23230 782 | QPSK | 1 | 0 | 0 | 24.25 | 0.138 | 3 |
| | | QPSK | | 24 | | 24.05 | 0.132 | 3 |
| | | QPSK | | 49 | | 24.06 | 0.132 | 3 |
| | | QPSK | 50 | 0 | 1 | 23.32 | 0.112 | 3 |
| | | 16-QAM | 1 | 0 | 1 | 23.99 | 0.130 | 3 |
| | | 16-QAM | | 24 | | 23.86 | 0.126 | 3 |
| | | 16-QAM | | 49 | | 23.88 | 0.127 | 3 |
| | | 16-QAM | 50 | 0 | 2 | 22.32 | 0.089 | 3 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) ERP | Limit (W) ERP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|-------------------------|---------------|
| Band 13 10MHz | 23230 782 | 64-QAM | 1 | 0 | 1 | 22.15 | 0.085 | 3 |
| | | 64-QAM | | 24 | | 22.14 | 0.085 | 3 |
| | | 64-QAM | | 49 | | 22.08 | 0.084 | 3 |
| | | 64-QAM | 50 | 0 | 2 | 21.69 | 0.077 | 3 |

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 4: LTE Band 66 | | |
| Date of Test | 2020/06/08~2020/06/10 | Test Site | SR12-H |
| Temperature (°C) | 24 | Humidity (%RH) | 60 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 1.4MHz | 131979 1710.7 | QPSK | 1 | 0 | 0 | 23.43 | 0.469 | 1 |
| | | QPSK | | 2 | | 23.44 | 0.470 | 1 |
| | | QPSK | | 5 | | 23.42 | 0.468 | 1 |
| | | QPSK | 6 | 0 | 1 | 22.52 | 0.380 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.16 | 0.350 | 1 |
| | | 16-QAM | | 2 | | 22.15 | 0.349 | 1 |
| | | 16-QAM | | 5 | | 22.19 | 0.352 | 1 |
| | | 16-QAM | 6 | 0 | 2 | 21.54 | 0.303 | 1 |
| | 132322 1745 | QPSK | 1 | 0 | 0 | 23.57 | 0.484 | 1 |
| | | QPSK | | 2 | | 23.64 | 0.492 | 1 |
| | | QPSK | | 5 | | 23.62 | 0.490 | 1 |
| | | QPSK | 6 | 0 | 1 | 22.59 | 0.386 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.60 | 0.387 | 1 |
| | | 16-QAM | | 2 | | 22.64 | 0.391 | 1 |
| | | 16-QAM | | 5 | | 22.67 | 0.394 | 1 |
| | | 16-QAM | 6 | 0 | 2 | 21.49 | 0.300 | 1 |
| | 132665 1779.3 | QPSK | 1 | 0 | 0 | 23.51 | 0.478 | 1 |
| | | QPSK | | 2 | | 23.52 | 0.479 | 1 |
| | | QPSK | | 5 | | 23.53 | 0.480 | 1 |
| | | QPSK | 6 | 0 | 1 | 22.51 | 0.379 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.37 | 0.367 | 1 |
| | | 16-QAM | | 2 | | 22.38 | 0.368 | 1 |
| | | 16-QAM | | 5 | | 22.39 | 0.369 | 1 |
| | | 16-QAM | 6 | 0 | 2 | 21.58 | 0.306 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 1.4MHz | 131979 1710.7 | 64-QAM | 1 | 0 | 1 | 21.23 | 0.282 | 1 |
| | | 64-QAM | | 2 | | 21.24 | 0.283 | 1 |
| | | 64-QAM | | 5 | | 21.11 | 0.275 | 1 |
| | | 64-QAM | 6 | 0 | 2 | 20.49 | 0.238 | 1 |
| | 132322 1745 | 64-QAM | 1 | 0 | 1 | 21.27 | 0.285 | 1 |
| | | 64-QAM | | 2 | | 21.18 | 0.279 | 1 |
| | | 64-QAM | | 5 | | 21.41 | 0.294 | 1 |
| | | 64-QAM | 6 | 0 | 2 | 20.53 | 0.240 | 1 |
| | 132665 1779.3 | 64-QAM | 1 | 0 | 1 | 21.33 | 0.289 | 1 |
| | | 64-QAM | | 2 | | 21.47 | 0.299 | 1 |
| | | 64-QAM | | 5 | | 21.46 | 0.298 | 1 |
| | | 64-QAM | 6 | 0 | 2 | 20.79 | 0.255 | 1 |

| 5 | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 3MHz | 131987 1711.5 | QPSK | 1 | 0 | 0 | 23.52 | 0.479 | 1 |
| | | QPSK | | 7 | | 23.48 | 0.474 | 1 |
| | | QPSK | | 14 | | 23.49 | 0.475 | 1 |
| | | QPSK | 15 | 0 | 1 | 22.71 | 0.397 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 23.19 | 0.444 | 1 |
| | | 16-QAM | | 7 | | 23.15 | 0.440 | 1 |
| | | 16-QAM | | 14 | | 23.14 | 0.439 | 1 |
| | | 16-QAM | 15 | 0 | 2 | 21.76 | 0.319 | 1 |
| | 132322 1745 | QPSK | 1 | 0 | 0 | 23.67 | 0.495 | 1 |
| | | QPSK | | 7 | | 23.70 | 0.499 | 1 |
| | | QPSK | | 14 | | 23.75 | 0.505 | 1 |
| | | QPSK | 15 | 0 | 1 | 22.74 | 0.400 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.69 | 0.395 | 1 |
| | | 16-QAM | | 7 | | 22.70 | 0.396 | 1 |
| | | 16-QAM | | 14 | | 22.71 | 0.397 | 1 |
| | | 16-QAM | 15 | 0 | 2 | 21.71 | 0.316 | 1 |
| | 132657 1778.5 | QPSK | 1 | 0 | 0 | 23.62 | 0.490 | 1 |
| | | QPSK | | 7 | | 23.66 | 0.494 | 1 |
| | | QPSK | | 14 | | 23.60 | 0.488 | 1 |
| | | QPSK | 15 | 0 | 1 | 22.65 | 0.392 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.50 | 0.378 | 1 |
| | | 16-QAM | | 7 | | 22.51 | 0.379 | 1 |
| | | 16-QAM | | 14 | | 22.46 | 0.375 | 1 |
| | | 16-QAM | 15 | 0 | 2 | 21.65 | 0.311 | 1 |

| 5 | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 3MHz | 131987 1711.5 | 64-QAM | 1 | 0 | 1 | 21.27 | 0.285 | 1 |
| | | 64-QAM | | 7 | | 21.20 | 0.281 | 1 |
| | | 64-QAM | | 14 | | 21.17 | 0.279 | 1 |
| | | 64-QAM | 15 | 0 | 2 | 20.73 | 0.252 | 1 |
| | 132322 1745 | 64-QAM | 1 | 0 | 1 | 21.24 | 0.283 | 1 |
| | | 64-QAM | | 7 | | 21.23 | 0.282 | 1 |
| | | 64-QAM | | 14 | | 21.18 | 0.279 | 1 |
| | | 64-QAM | 15 | 0 | 2 | 20.45 | 0.236 | 1 |
| | 132657 1778.5 | 64-QAM | 1 | 0 | 1 | 21.40 | 0.294 | 1 |
| | | 64-QAM | | 7 | | 21.36 | 0.291 | 1 |
| | | 64-QAM | | 14 | | 21.35 | 0.290 | 1 |
| | | 64-QAM | 15 | 0 | 2 | 21.08 | 0.273 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 5MHz | 131997 1712.5 | QPSK | 1 | 0 | 0 | 23.61 | 0.489 | 1 |
| | | QPSK | | 12 | | 23.62 | 0.490 | 1 |
| | | QPSK | | 24 | | 23.56 | 0.483 | 1 |
| | | QPSK | 25 | 0 | 1 | 22.62 | 0.389 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.59 | 0.386 | 1 |
| | | 16-QAM | | 12 | | 22.58 | 0.385 | 1 |
| | | 16-QAM | | 24 | | 22.60 | 0.387 | 1 |
| | | 16-QAM | 25 | 0 | 2 | 21.67 | 0.313 | 1 |
| | 132322 1745 | QPSK | 1 | 0 | 0 | 23.55 | 0.482 | 1 |
| | | QPSK | | 12 | | 23.66 | 0.494 | 1 |
| | | QPSK | | 24 | | 23.62 | 0.490 | 1 |
| | | QPSK | 25 | 0 | 1 | 22.68 | 0.394 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.67 | 0.394 | 1 |
| | | 16-QAM | | 12 | | 22.77 | 0.403 | 1 |
| | | 16-QAM | | 24 | | 22.81 | 0.406 | 1 |
| | | 16-QAM | 25 | 0 | 2 | 21.73 | 0.317 | 1 |
| | 132647 1777.5 | QPSK | 1 | 0 | 0 | 23.57 | 0.484 | 1 |
| | | QPSK | | 12 | | 23.56 | 0.483 | 1 |
| | | QPSK | | 24 | | 23.55 | 0.482 | 1 |
| | | QPSK | 25 | 0 | 1 | 22.65 | 0.392 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 23.02 | 0.427 | 1 |
| | | 16-QAM | | 12 | | 23.01 | 0.426 | 1 |
| | | 16-QAM | | 24 | | 22.99 | 0.424 | 1 |
| | | 16-QAM | 25 | 0 | 2 | 21.63 | 0.310 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|-----------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 5MHz | 131997 1712.5 | 64-QAM | 1 | 0 | 1 | 21.06 | 0.272 | 1 |
| | | 64-QAM | | 12 | | 21.37 | 0.292 | 1 |
| | | 64-QAM | | 24 | | 21.34 | 0.290 | 1 |
| | | 64-QAM | 25 | 0 | 2 | 20.74 | 0.252 | 1 |
| | 132322 1745 | 64-QAM | 1 | 0 | 1 | 21.13 | 0.276 | 1 |
| | | 64-QAM | | 12 | | 21.33 | 0.289 | 1 |
| | | 64-QAM | | 24 | | 21.16 | 0.278 | 1 |
| | | 64-QAM | 25 | 0 | 2 | 20.55 | 0.242 | 1 |
| | 132647 1777.5 | 64-QAM | 1 | 0 | 1 | 21.24 | 0.283 | 1 |
| | | 64-QAM | | 12 | | 21.39 | 0.293 | 1 |
| | | 64-QAM | | 24 | | 21.25 | 0.284 | 1 |
| | | 64-QAM | 25 | 0 | 2 | 21.10 | 0.274 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 10MHz | 132022 1715 | QPSK | 1 | 0 | 0 | 23.48 | 0.474 | 1 |
| | | QPSK | | 24 | | 23.49 | 0.475 | 1 |
| | | QPSK | | 49 | | 23.51 | 0.478 | 1 |
| | | QPSK | 50 | 0 | 1 | 22.66 | 0.393 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 23.18 | 0.443 | 1 |
| | | 16-QAM | | 24 | | 23.11 | 0.436 | 1 |
| | | 16-QAM | | 49 | | 23.08 | 0.433 | 1 |
| | | 16-QAM | 50 | 0 | 2 | 21.69 | 0.314 | 1 |
| | 132322 1745 | QPSK | 1 | 0 | 0 | 23.51 | 0.478 | 1 |
| | | QPSK | | 24 | | 23.66 | 0.494 | 1 |
| | | QPSK | | 49 | | 23.40 | 0.466 | 1 |
| | | QPSK | 50 | 0 | 1 | 22.69 | 0.395 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.41 | 0.371 | 1 |
| | | 16-QAM | | 24 | | 22.64 | 0.391 | 1 |
| | | 16-QAM | | 49 | | 22.68 | 0.394 | 1 |
| | | 16-QAM | 50 | 0 | 2 | 21.75 | 0.318 | 1 |
| | 132622 1775 | QPSK | 1 | 0 | 0 | 23.62 | 0.490 | 1 |
| | | QPSK | | 24 | | 23.61 | 0.489 | 1 |
| | | QPSK | | 49 | | 23.58 | 0.485 | 1 |
| | | QPSK | 50 | 0 | 1 | 22.57 | 0.385 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.53 | 0.381 | 1 |
| | | 16-QAM | | 24 | | 22.52 | 0.380 | 1 |
| | | 16-QAM | | 49 | | 22.52 | 0.380 | 1 |
| | | 16-QAM | 50 | 0 | 2 | 21.59 | 0.307 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 10MHz | 132022 1715 | 64-QAM | 1 | 0 | 1 | 21.19 | 0.280 | 1 |
| | | 64-QAM | | 24 | | 21.41 | 0.294 | 1 |
| | | 64-QAM | | 49 | | 21.31 | 0.288 | 1 |
| | | 64-QAM | 50 | 0 | 2 | 21.05 | 0.271 | 1 |
| | 132322 1745 | 64-QAM | 1 | 0 | 1 | 20.82 | 0.257 | 1 |
| | | | | 24 | | 21.24 | 0.283 | 1 |
| | | | | 49 | | 21.29 | 0.286 | 1 |
| | | | 50 | 0 | 2 | 20.56 | 0.242 | 1 |
| | 132622 1775 | 64-QAM | 1 | 0 | 1 | 21.17 | 0.279 | 1 |
| | | | | 24 | | 21.27 | 0.285 | 1 |
| | | | | 49 | | 21.55 | 0.304 | 1 |
| | | | 50 | 0 | 2 | 21.04 | 0.270 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 15MHz | 132047 1717.5 | QPSK | 1 | 0 | 0 | 23.46 | 0.472 | 1 |
| | | QPSK | | 37 | | 23.45 | 0.471 | 1 |
| | | QPSK | | 74 | | 23.53 | 0.480 | 1 |
| | | QPSK | 75 | 0 | 1 | 22.66 | 0.393 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 23.14 | 0.439 | 1 |
| | | 16-QAM | | 37 | | 23.16 | 0.441 | 1 |
| | | 16-QAM | | 74 | | 23.21 | 0.446 | 1 |
| | | 16-QAM | 75 | 0 | 2 | 21.74 | 0.318 | 1 |
| | 132322 1745 | QPSK | 1 | 0 | 0 | 23.45 | 0.471 | 1 |
| | | QPSK | | 37 | | 23.49 | 0.475 | 1 |
| | | QPSK | | 74 | | 23.62 | 0.490 | 1 |
| | | QPSK | 75 | 0 | 1 | 22.65 | 0.392 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.60 | 0.387 | 1 |
| | | 16-QAM | | 37 | | 22.59 | 0.386 | 1 |
| | | 16-QAM | | 74 | | 23.04 | 0.429 | 1 |
| | | 16-QAM | 75 | 0 | 2 | 21.67 | 0.313 | 1 |
| | 132597 1772.5 | QPSK | 1 | 0 | 0 | 23.65 | 0.493 | 1 |
| | | QPSK | | 37 | | 23.64 | 0.492 | 1 |
| | | QPSK | | 74 | | 23.67 | 0.495 | 1 |
| | | QPSK | 75 | 0 | 1 | 22.55 | 0.383 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.54 | 0.382 | 1 |
| | | 16-QAM | | 37 | | 22.52 | 0.380 | 1 |
| | | 16-QAM | | 74 | | 22.60 | 0.387 | 1 |
| | | 16-QAM | 75 | 0 | 2 | 21.64 | 0.310 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 15MHz | 132047 1717.5 | 64-QAM | 1 | 0 | 1 | 21.27 | 0.285 | 1 |
| | | 64-QAM | | 37 | | 21.37 | 0.292 | 1 |
| | | 64-QAM | | 74 | | 21.45 | 0.297 | 1 |
| | | 64-QAM | 75 | 0 | 2 | 20.94 | 0.264 | 1 |
| | 132322 1745 | 64-QAM | 1 | 0 | 1 | 21.18 | 0.279 | 1 |
| | | 64-QAM | | 37 | | 21.26 | 0.284 | 1 |
| | | 64-QAM | | 74 | | 21.81 | 0.323 | 1 |
| | | 64-QAM | 75 | 0 | 2 | 20.62 | 0.245 | 1 |
| | 132597 1772.5 | 64-QAM | 1 | 0 | 1 | 21.44 | 0.296 | 1 |
| | | 64-QAM | | 37 | | 21.26 | 0.284 | 1 |
| | | 64-QAM | | 74 | | 21.35 | 0.290 | 1 |
| | | 64-QAM | 75 | 0 | 2 | 21.10 | 0.274 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 20MHz | 132072 1720 | QPSK | 1 | 0 | 0 | 23.65 | 0.493 | 1 |
| | | QPSK | | 49 | | 23.52 | 0.479 | 1 |
| | | QPSK | | 99 | | 23.64 | 0.492 | 1 |
| | | QPSK | 100 | 0 | 1 | 22.71 | 0.397 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 23.13 | 0.438 | 1 |
| | | 16-QAM | | 49 | | 23.12 | 0.437 | 1 |
| | | 16-QAM | | 99 | | 23.16 | 0.441 | 1 |
| | | 16-QAM | 100 | 0 | 2 | 21.72 | 0.316 | 1 |
| | 132322 1745 | QPSK | 1 | 0 | 0 | 23.76 | 0.506 | 1 |
| | | QPSK | | 49 | | 23.38 | 0.463 | 1 |
| | | QPSK | | 99 | | 23.67 | 0.495 | 1 |
| | | QPSK | 100 | 0 | 1 | 22.75 | 0.401 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.47 | 0.376 | 1 |
| | | 16-QAM | | 49 | | 22.45 | 0.374 | 1 |
| | | 16-QAM | | 99 | | 23.08 | 0.433 | 1 |
| | | 16-QAM | 100 | 0 | 2 | 21.73 | 0.317 | 1 |
| | 132572 1770 | QPSK | 1 | 0 | 0 | 23.69 | 0.498 | 1 |
| | | QPSK | | 49 | | 23.66 | 0.494 | 1 |
| | | QPSK | | 99 | | 23.67 | 0.495 | 1 |
| | | QPSK | 100 | 0 | 1 | 22.63 | 0.390 | 1 |
| | | 16-QAM | 1 | 0 | 1 | 22.68 | 0.394 | 1 |
| | | 16-QAM | | 49 | | 22.65 | 0.392 | 1 |
| | | 16-QAM | | 99 | | 22.64 | 0.391 | 1 |
| | | 16-QAM | 100 | 0 | 2 | 21.62 | 0.309 | 1 |

| Band | Channel Freq. (MHz) | Modulation | RB No. | RB offset | MPR | Conducted Output Power (dBm) | RF Output Power (W) EIRP | Limit (W) EIRP |
|------------------|---------------------|------------|--------|-----------|-----|------------------------------|--------------------------|----------------|
| Band 66 20MHz | 132072 1720 | 64-QAM | 1 | 0 | 1 | 21.08 | 0.273 | 1 |
| | | 64-QAM | | 49 | | 21.39 | 0.293 | 1 |
| | | 64-QAM | | 99 | | 21.27 | 0.285 | 1 |
| | | 64-QAM | 100 | 0 | 2 | 21.03 | 0.270 | 1 |
| | 132322 1745 | 64-QAM | 1 | 0 | 1 | 21.01 | 0.269 | 1 |
| | | 64-QAM | | 49 | | 21.28 | 0.286 | 1 |
| | | 64-QAM | | 99 | | 21.66 | 0.312 | 1 |
| | | 64-QAM | 100 | 0 | 2 | 20.60 | 0.244 | 1 |
| | 132572 1770 | 64-QAM | 1 | 0 | 1 | 21.47 | 0.299 | 1 |
| | | 64-QAM | | 49 | | 21.40 | 0.294 | 1 |
| | | 64-QAM | | 99 | | 21.46 | 0.298 | 1 |
| | | 64-QAM | 100 | 0 | 2 | 21.09 | 0.274 | 1 |

| | | | |
|------------------|----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 5: LTE CA_2A-5A | | |
| Date of Test | 2020/07/16 | Test Site | SR12-H |
| Temperature (°C) | 22 | Humidity (%RH) | 64 |

| CA_2A+5A Maximum Conducted Output Power | | | | | | | | | | | | | | | | | |
|-----------------------------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|-----------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|
| PCC UL CA Power (dBm) | | | | | | | | | SCC UL CA Power (dBm) | | | | | | | | |
| LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offest | QPSK | 16QAM | 64QAM | LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offest | QPSK | 16QAM | 64QAM |
| 2 | 5 | 18625 | 1852.5 | 1 | 0 | 20.05 | 19.86 | 19.77 | 5 | 5 | 20625 | 846.5 | 1 | 24 | 22.76 | 22.55 | 22.37 |
| | | | | 1 | 24 | 20.13 | 19.92 | 19.72 | | | | | 1 | 0 | 22.95 | 22.67 | 22.41 |
| | | | | 25 | 0 | 20.14 | 19.90 | 19.69 | | | | | 25 | 0 | 22.79 | 22.60 | 22.23 |
| 2 | 10 | 18650 | 1855 | 1 | 0 | 19.89 | 19.81 | 19.66 | 5 | 10 | 20600 | 844 | 1 | 49 | 22.69 | 22.41 | 22.27 |
| | | | | 1 | 49 | 20.01 | 19.95 | 19.64 | | | | | 1 | 0 | 22.73 | 22.45 | 22.18 |
| | | | | 50 | 0 | 19.98 | 19.86 | 19.70 | | | | | 50 | 0 | 22.81 | 22.77 | 22.38 |
| 2 | 15 | 18675 | 1857.5 | 1 | 0 | 20.03 | 19.84 | 19.59 | 5 | 5 | 20625 | 846.5 | 1 | 24 | 22.61 | 22.37 | 22.21 |
| | | | | 1 | 74 | 20.16 | 19.97 | 19.91 | | | | | 1 | 0 | 22.85 | 22.54 | 22.42 |
| | | | | 75 | 0 | 20.09 | 20.01 | 19.68 | | | | | 25 | 0 | 22.78 | 22.51 | 22.35 |
| 2 | 20 | 18700 | 1860 | 1 | 0 | 20.47 | 20.21 | 19.58 | 5 | 10 | 20600 | 844 | 1 | 49 | 22.75 | 22.48 | 22.11 |
| | | | | 1 | 99 | 20.55 | 20.19 | 19.75 | | | | | 1 | 0 | 22.50 | 22.41 | 22.31 |
| | | | | 100 | 0 | 20.21 | 19.99 | 19.69 | | | | | 50 | 0 | 22.92 | 22.75 | 22.27 |

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 6: LTE CA_2A-13A | | |
| Date of Test | 2020/07/16 | Test Site | SR12-H |
| Temperature (°C) | 22 | Humidity (%RH) | 64 |

CA_2A+13A Maximum Conducted Output Power

| PCC UL CA Power (dBm) | | | | | | | | | SCC UL CA Power (dBm) | | | | | | | | |
|-----------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|-----------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|
| LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offset | QPSK | 16QAM | 64QAM | LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offset | QPSK | 16QAM | 64QAM |
| 2 | 5 | 18625 | 1852.5 | 1 | 0 | 20.18 | 19.92 | 19.81 | 13 | 5 | 23255 | 784.5 | 1 | 24 | 23.25 | 22.76 | 22.65 |
| | | | | 1 | 24 | 20.11 | 19.85 | 19.73 | | | | | 1 | 0 | 23.33 | 22.87 | 22.69 |
| | | | | 25 | 0 | 20.05 | 19.89 | 19.75 | | | | | 25 | 0 | 23.35 | 22.79 | 22.75 |
| 2 | 10 | 18650 | 1855 | 1 | 0 | 19.92 | 19.87 | 19.72 | 13 | 10 | 23230 | 782 | 1 | 49 | 23.23 | 22.91 | 22.71 |
| | | | | 1 | 49 | 19.93 | 19.98 | 19.63 | | | | | 1 | 0 | 23.26 | 22.72 | 22.58 |
| | | | | 50 | 0 | 20.03 | 19.99 | 19.77 | | | | | 50 | 0 | 23.31 | 22.97 | 22.89 |
| 2 | 15 | 18675 | 1857.5 | 1 | 0 | 20.09 | 19.91 | 19.58 | 13 | 5 | 23255 | 784.5 | 1 | 24 | 23.21 | 22.84 | 22.76 |
| | | | | 1 | 74 | 20.19 | 19.83 | 19.84 | | | | | 1 | 0 | 23.45 | 22.91 | 22.84 |
| | | | | 75 | 0 | 20.12 | 20.07 | 19.89 | | | | | 25 | 0 | 23.38 | 22.98 | 22.85 |
| 2 | 20 | 18700 | 1860 | 1 | 0 | 20.36 | 20.26 | 19.80 | 13 | 10 | 23230 | 782 | 1 | 49 | 23.24 | 22.82 | 22.74 |
| | | | | 1 | 99 | 20.41 | 20.29 | 19.78 | | | | | 1 | 0 | 23.26 | 22.90 | 22.66 |
| | | | | 100 | 0 | 20.09 | 19.92 | 19.66 | | | | | 50 | 0 | 23.33 | 22.88 | 22.68 |

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 7: LTE CA_2A-66A | | |
| Date of Test | 2020/07/16 | Test Site | SR12-H |
| Temperature (°C) | 22 | Humidity (%RH) | 64 |

| CA_2A+66A Maximum Conducted Output Power | | | | | | | | | | | | | | | | | |
|------------------------------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|-----------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|
| PCC UL CA Power (dBm) | | | | | | | | | SCC UL CA Power (dBm) | | | | | | | | |
| LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offest | QPSK | 16QAM | 64QAM | LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offest | QPSK | 16QAM | 64QAM |
| 2 | 5 | 18625 | 1852.5 | 1 | 0 | 20.11 | 19.95 | 19.81 | 66 | 5 | 132647 | 1777.5 | 1 | 24 | 21.76 | 21.52 | 21.35 |
| | | | | 1 | 24 | 20.19 | 19.91 | 19.75 | | | | | 1 | 0 | 21.85 | 21.45 | 21.26 |
| | | | | 25 | 0 | 20.15 | 19.88 | 19.83 | | | | | 25 | 0 | 21.79 | 21.60 | 21.38 |
| 2 | 10 | 18650 | 1855 | 1 | 0 | 19.97 | 19.92 | 19.73 | 66 | 10 | 132622 | 1775 | 1 | 49 | 21.93 | 21.54 | 21.55 |
| | | | | 1 | 49 | 19.99 | 19.96 | 19.75 | | | | | 1 | 0 | 21.96 | 21.62 | 21.29 |
| | | | | 50 | 0 | 20.08 | 19.93 | 19.88 | | | | | 50 | 0 | 21.78 | 21.43 | 21.46 |
| 2 | 15 | 18675 | 1857.5 | 1 | 0 | 20.14 | 19.98 | 19.83 | 66 | 15 | 132597 | 1772.5 | 1 | 74 | 21.86 | 21.58 | 21.31 |
| | | | | 1 | 74 | 20.22 | 19.85 | 19.87 | | | | | 1 | 0 | 21.95 | 21.66 | 21.59 |
| | | | | 75 | 0 | 20.21 | 19.93 | 19.71 | | | | | 75 | 0 | 21.89 | 21.48 | 21.37 |
| 2 | 20 | 18700 | 1860 | 1 | 0 | 20.29 | 20.13 | 19.71 | 66 | 20 | 132572 | 1770 | 1 | 99 | 21.81 | 21.51 | 21.42 |
| | | | | 1 | 99 | 20.25 | 20.05 | 19.80 | | | | | 1 | 0 | 21.93 | 21.55 | 21.46 |
| | | | | 100 | 0 | 20.11 | 19.91 | 19.69 | | | | | 100 | 0 | 21.90 | 21.69 | 21.58 |

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | RF Output Power | | |
| Test Mode | Mode 8: LTE CA_5A-66A | | |
| Date of Test | 2020/07/16 | Test Site | SR12-H |
| Temperature (°C) | 22 | Humidity (%RH) | 64 |

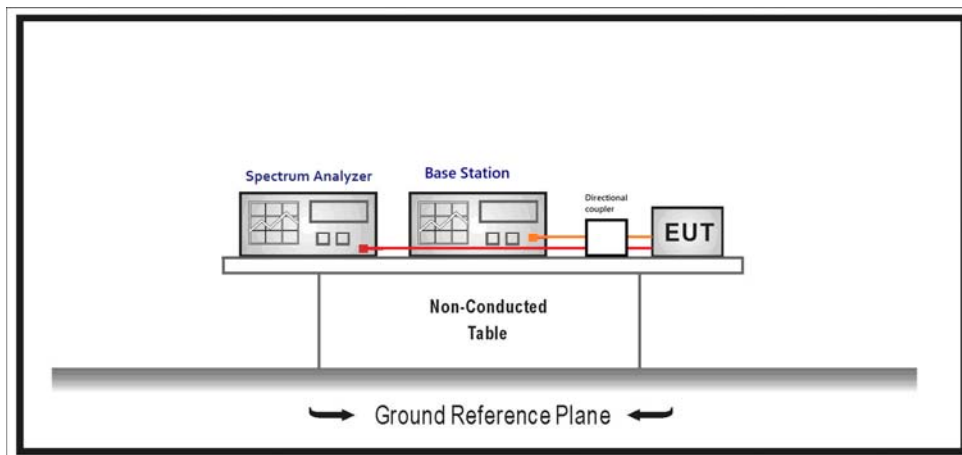
| CA_5A+66A Maximum Conducted Output Power | | | | | | | | | | | | | | | | | |
|------------------------------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|-----------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|
| PCC UL CA Power (dBm) | | | | | | | | | SCC UL CA Power (dBm) | | | | | | | | |
| LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offest | QPSK | 16QAM | 64QAM | LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offest | QPSK | 16QAM | 64QAM |
| 5 | 5 | 20625 | 846.5 | 1 | 0 | 21.38 | 21.32 | 21.22 | 66 | 5 | 131997 | 1712.5 | 1 | 24 | 21.82 | 21.55 | 21.36 |
| | | | | 1 | 24 | 21.46 | 21.35 | 21.26 | | | | | 1 | 0 | 21.86 | 21.58 | 21.43 |
| | | | | 25 | 0 | 21.44 | 21.26 | 21.29 | | | | | 25 | 0 | 21.93 | 21.62 | 21.45 |
| 5 | 10 | 20600 | 844 | 1 | 0 | 21.52 | 21.39 | 21.31 | 66 | 10 | 132022 | 1715 | 1 | 49 | 21.81 | 21.45 | 21.39 |
| | | | | 1 | 49 | 21.41 | 21.21 | 21.25 | | | | | 1 | 0 | 21.89 | 21.51 | 21.50 |
| | | | | 50 | 0 | 21.47 | 21.26 | 21.21 | | | | | 50 | 0 | 21.98 | 21.52 | 21.31 |
| 5 | 5 | 20625 | 846.5 | 1 | 0 | 21.32 | 21.18 | 21.23 | 66 | 15 | 132047 | 1717.5 | 1 | 74 | 21.83 | 21.68 | 21.47 |
| | | | | 1 | 24 | 21.35 | 21.22 | 21.17 | | | | | 1 | 0 | 21.91 | 21.60 | 21.41 |
| | | | | 25 | 0 | 21.41 | 21.31 | 21.24 | | | | | 75 | 0 | 21.90 | 21.49 | 21.34 |
| 5 | 10 | 20600 | 844 | 1 | 0 | 21.51 | 21.36 | 21.30 | 66 | 20 | 132072 | 1720 | 1 | 99 | 21.78 | 21.52 | 21.48 |
| | | | | 1 | 49 | 21.43 | 21.24 | 21.23 | | | | | 1 | 0 | 21.97 | 21.61 | 21.33 |
| | | | | 50 | 0 | 21.55 | 21.34 | 21.32 | | | | | 100 | 0 | 21.88 | 21.58 | 21.40 |

| | | | | | |
|------------------|------------------------|----------------|--------|--|--|
| Product | LV55 | | | | |
| Test Item | RF Output Power | | | | |
| Test Mode | Mode 9: LTE CA_13A-66A | | | | |
| Date of Test | 2020/07/16 | Test Site | SR12-H | | |
| Temperature (°C) | 22 | Humidity (%RH) | 64 | | |

| CA_13A+66A Maximum Conducted Output Power | | | | | | | | | | | | | | | | | |
|-------------------------------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|-----------------------|----------|---------|----------------|--------|-----------|-------|-------|-------|
| PCC UL CA Power (dBm) | | | | | | | | | SCC UL CA Power (dBm) | | | | | | | | |
| LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offset | QPSK | 16QAM | 64QAM | LTE Band | BW (MHz) | Channel | Frquency (MHz) | RB No. | RB offset | QPSK | 16QAM | 64QAM |
| 13 | 5 | 23255 | 784.5 | 1 | 0 | 21.53 | 21.43 | 21.32 | 66 | 5 | 131997 | 1712.5 | 1 | 24 | 21.84 | 21.57 | 21.38 |
| | | | | 1 | 24 | 21.62 | 21.48 | 21.36 | | | | | 1 | 0 | 21.91 | 21.68 | 21.44 |
| | | | | 25 | 0 | 21.56 | 21.45 | 21.29 | | | | | 25 | 0 | 21.95 | 21.52 | 21.45 |
| 13 | 10 | 23230 | 782 | 1 | 0 | 21.47 | 21.42 | 21.34 | 66 | 10 | 132022 | 1715 | 1 | 49 | 21.79 | 21.49 | 21.47 |
| | | | | 1 | 49 | 21.55 | 21.34 | 21.27 | | | | | 1 | 0 | 21.87 | 21.66 | 21.35 |
| | | | | 50 | 0 | 21.42 | 21.30 | 21.27 | | | | | 50 | 0 | 21.93 | 21.56 | 21.52 |
| 13 | 5 | 23255 | 784.5 | 1 | 0 | 21.60 | 21.51 | 21.42 | 66 | 15 | 132047 | 1717.5 | 1 | 74 | 21.74 | 21.53 | 21.49 |
| | | | | 1 | 24 | 21.52 | 21.43 | 21.33 | | | | | 1 | 0 | 21.99 | 21.64 | 21.54 |
| | | | | 25 | 0 | 21.58 | 21.39 | 21.38 | | | | | 75 | 0 | 21.78 | 22.56 | 21.33 |
| 13 | 10 | 23230 | 782 | 1 | 0 | 21.44 | 21.46 | 21.24 | 66 | 20 | 132072 | 1720 | 1 | 99 | 21.86 | 21.47 | 21.41 |
| | | | | 1 | 49 | 21.59 | 21.38 | 21.31 | | | | | 1 | 0 | 21.90 | 21.43 | 21.29 |
| | | | | 50 | 0 | 21.51 | 21.40 | 21.36 | | | | | 100 | 0 | 21.89 | 21.62 | 21.50 |

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The 26 dB bandwidth and 99% occupied bandwidth of the low & middle & high channel for the highest RF powers were measured.

4.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 4.2 & 4.3
ANSI C63.26-2015 Sub-clause 5.4.3 & 5.4.4

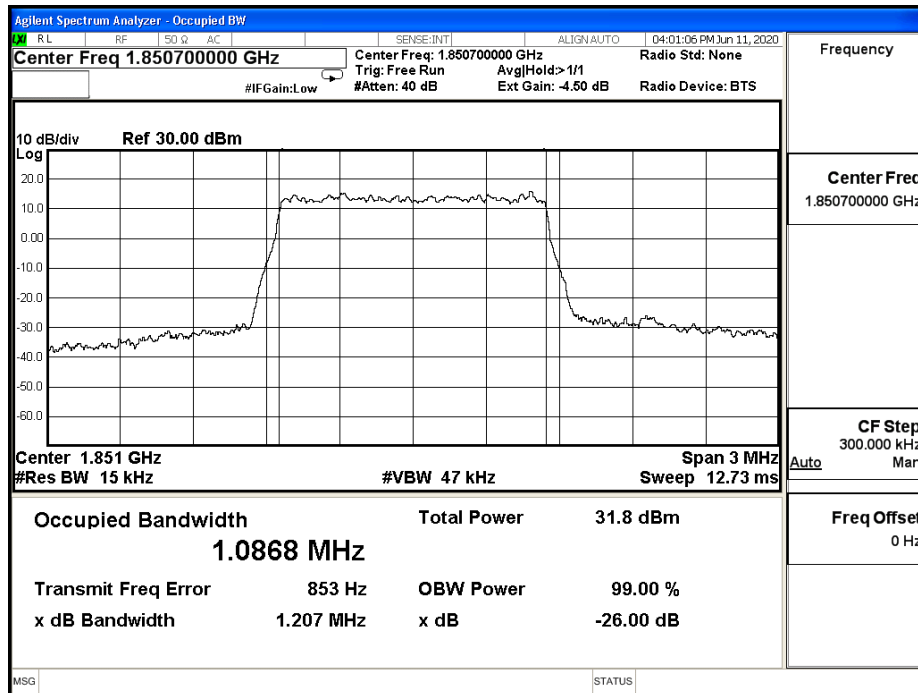
4.4. Test Result

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 1: LTE Band 2 | | |
| Date of Test | 2020/06/11~2020/06/18 | Test Site | SR12-H |
| Temperature (°C) | 26 | Humidity (%RH) | 57 |

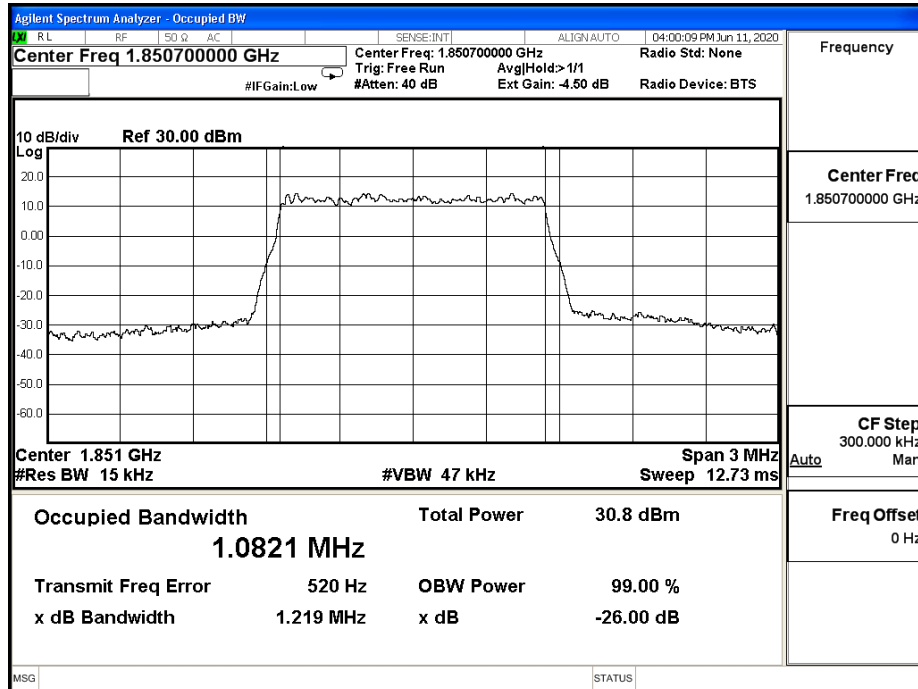
| LTE Band2_Full RB | | | | | |
|-------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 1850.7 | 1.207 | 1.086 | N/A |
| | | 1880 | 1.216 | 1.079 | N/A |
| | | 1909.3 | 1.214 | 1.078 | N/A |
| | 16-QAM | 1850.7 | 1.219 | 1.082 | N/A |
| | | 1880 | 1.225 | 1.081 | N/A |
| | | 1909.3 | 1.203 | 1.077 | N/A |
| | 64-QAM | 1850.7 | 1.212 | 1.079 | N/A |
| | | 1880 | 1.206 | 1.079 | N/A |
| | | 1909.3 | 1.210 | 1.079 | N/A |
| 3M | QPSK | 1851.5 | 2.938 | 2.688 | N/A |
| | | 1880 | 2.954 | 2.695 | N/A |
| | | 1908.5 | 2.953 | 2.689 | N/A |
| | 16-QAM | 1851.5 | 2.955 | 2.684 | N/A |
| | | 1880 | 2.944 | 2.687 | N/A |
| | | 1908.5 | 2.952 | 2.685 | N/A |
| | 64-QAM | 1851.5 | 2.931 | 2.687 | N/A |
| | | 1880 | 2.919 | 2.686 | N/A |
| | | 1908.5 | 2.924 | 2.683 | N/A |
| 5M | QPSK | 1852.5 | 4.891 | 4.483 | N/A |
| | | 1880 | 4.882 | 4.485 | N/A |
| | | 1907.5 | 4.891 | 4.468 | N/A |
| | 16-QAM | 1852.5 | 4.832 | 4.473 | N/A |
| | | 1880 | 4.903 | 4.485 | N/A |
| | | 1907.5 | 4.917 | 4.477 | N/A |
| | 64-QAM | 1852.5 | 4.907 | 4.484 | N/A |
| | | 1880 | 4.902 | 4.484 | N/A |
| | | 1907.5 | 4.898 | 4.481 | N/A |

| LTE Band2_Full RB | | | | | |
|-------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 1855 | 9.681 | 8.939 | N/A |
| | | 1880 | 9.689 | 8.944 | N/A |
| | | 1905 | 9.644 | 8.933 | N/A |
| | 16-QAM | 1855 | 9.618 | 8.931 | N/A |
| | | 1880 | 9.591 | 8.942 | N/A |
| | | 1905 | 9.618 | 8.943 | N/A |
| | 64-QAM | 1855 | 9.632 | 8.928 | N/A |
| | | 1880 | 9.625 | 8.929 | N/A |
| | | 1905 | 9.616 | 8.927 | N/A |
| 15M | QPSK | 1857.5 | 14.560 | 13.437 | N/A |
| | | 1880 | 14.450 | 13.405 | N/A |
| | | 1902.5 | 14.530 | 13.432 | N/A |
| | 16-QAM | 1857.5 | 14.460 | 13.417 | N/A |
| | | 1880 | 14.460 | 13.416 | N/A |
| | | 1902.5 | 14.410 | 13.423 | N/A |
| | 64-QAM | #REF! | 14.580 | 13.407 | N/A |
| | | 1880 | 14.570 | 13.412 | N/A |
| | | 1902.5 | 14.540 | 13.403 | N/A |
| 20M | QPSK | 1860 | 19.130 | 17.882 | N/A |
| | | 1880 | 19.070 | 17.854 | N/A |
| | | 1900 | 19.390 | 17.913 | N/A |
| | 16-QAM | 1860 | 19.220 | 17.883 | N/A |
| | | 1880 | 19.330 | 17.882 | N/A |
| | | 1900 | 19.290 | 17.876 | N/A |
| | 64-QAM | 1860 | 19.310 | 17.865 | N/A |
| | | 1880 | 19.200 | 17.858 | N/A |
| | | 1900 | 19.230 | 17.877 | N/A |

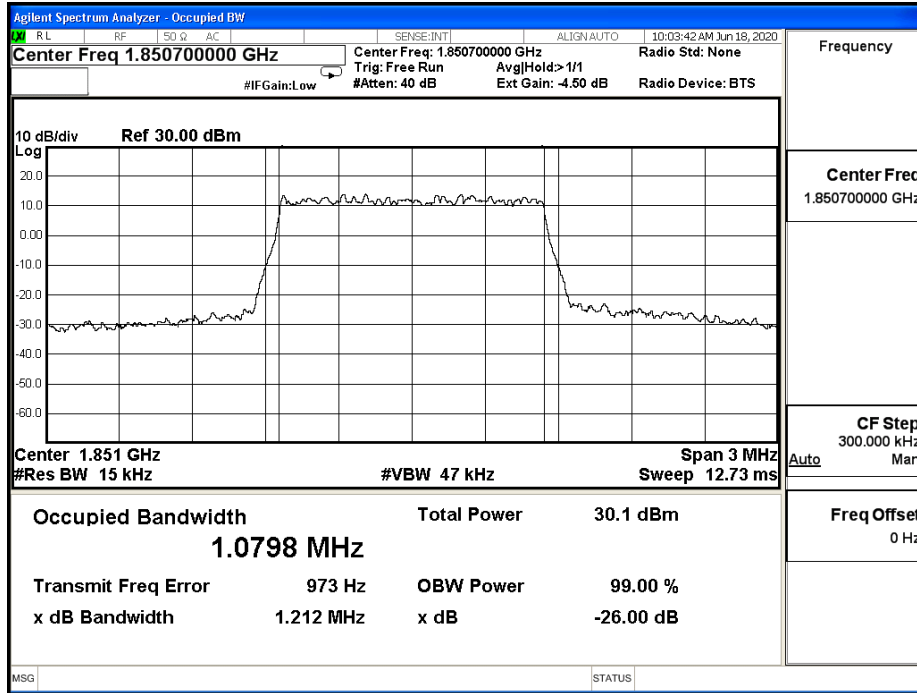
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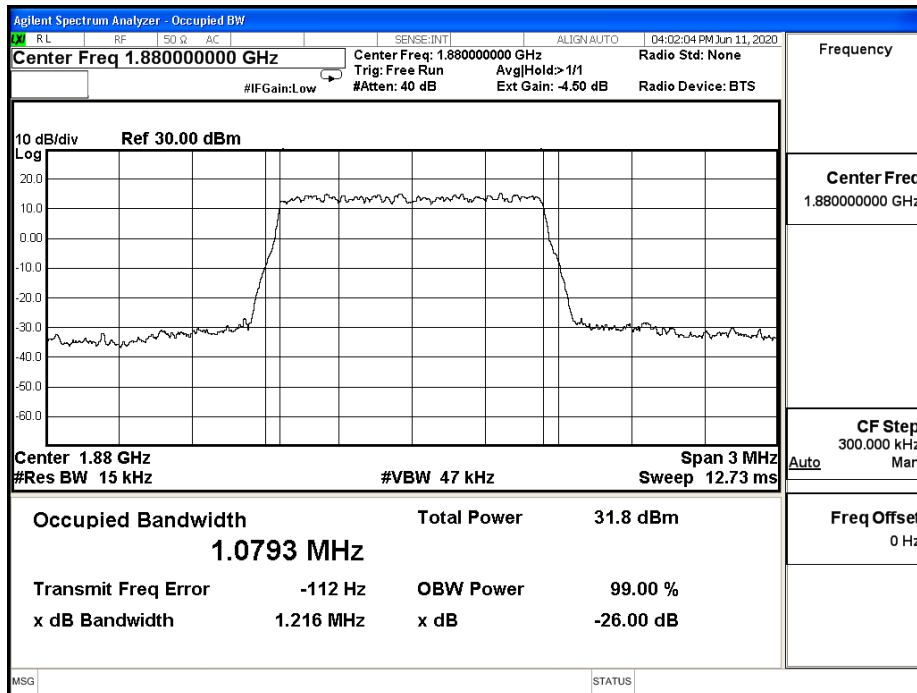
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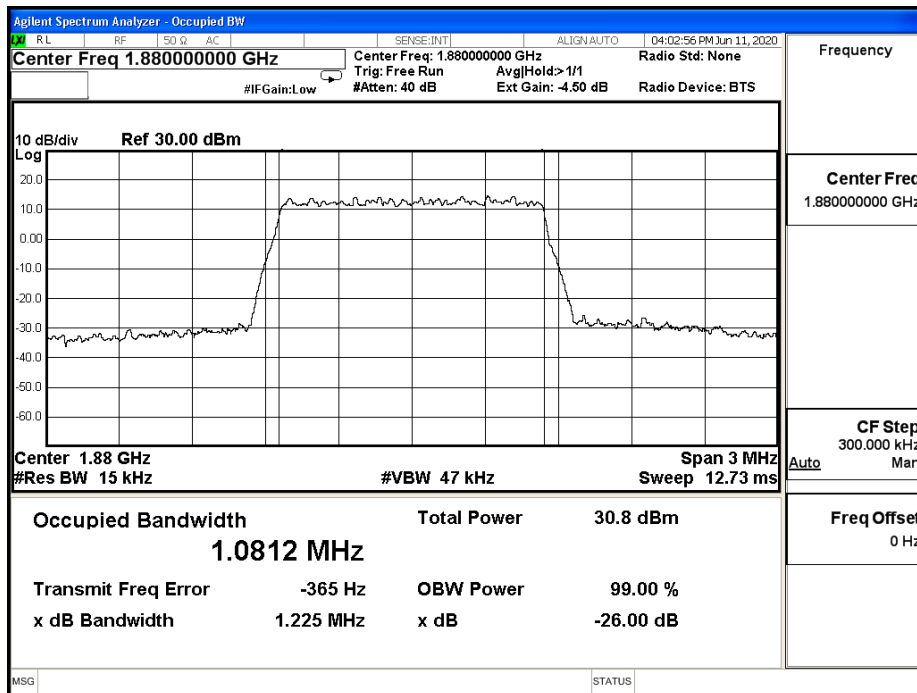
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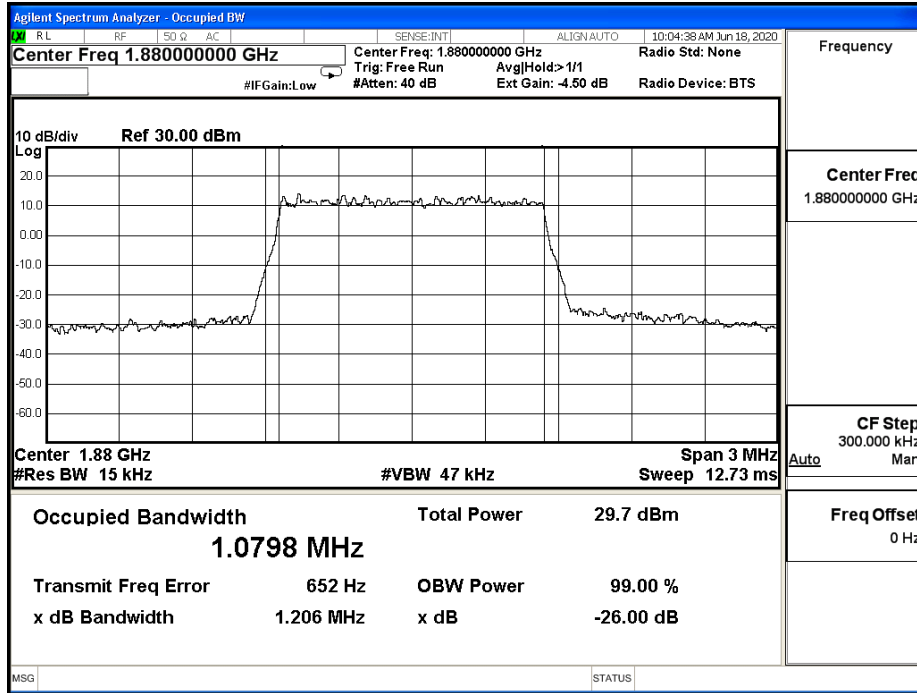
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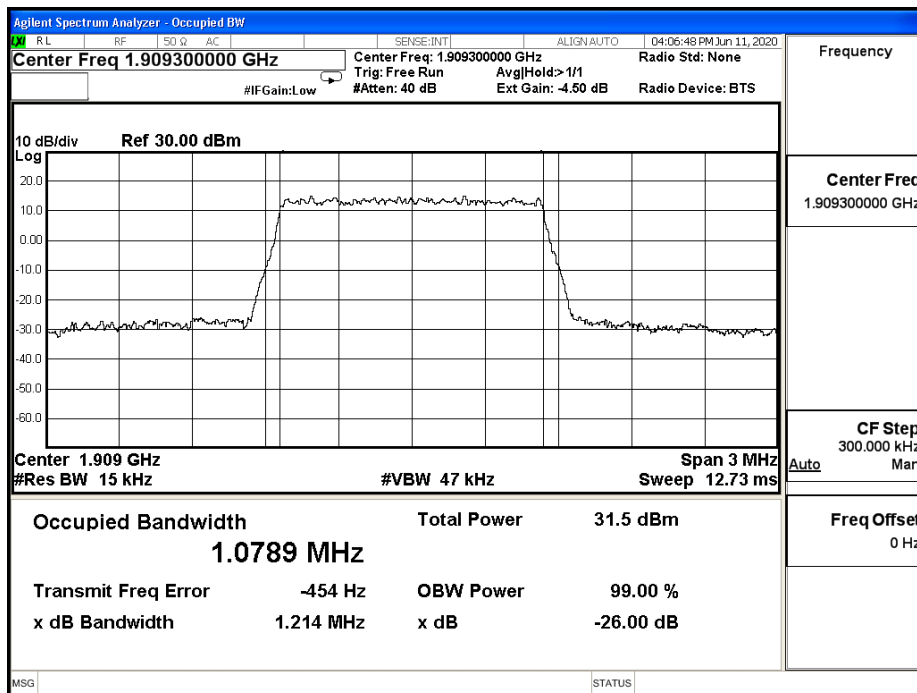
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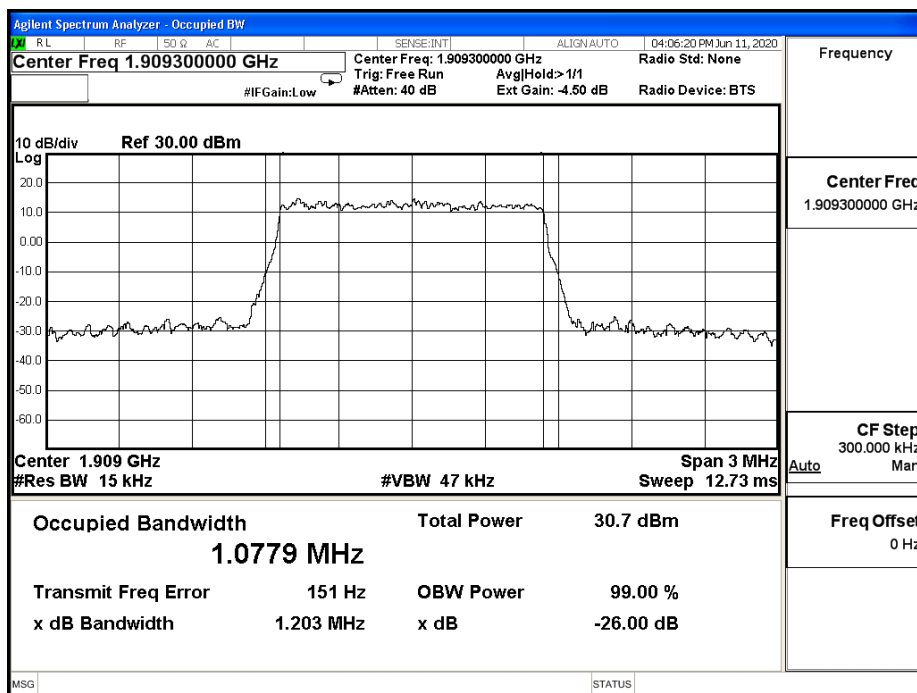
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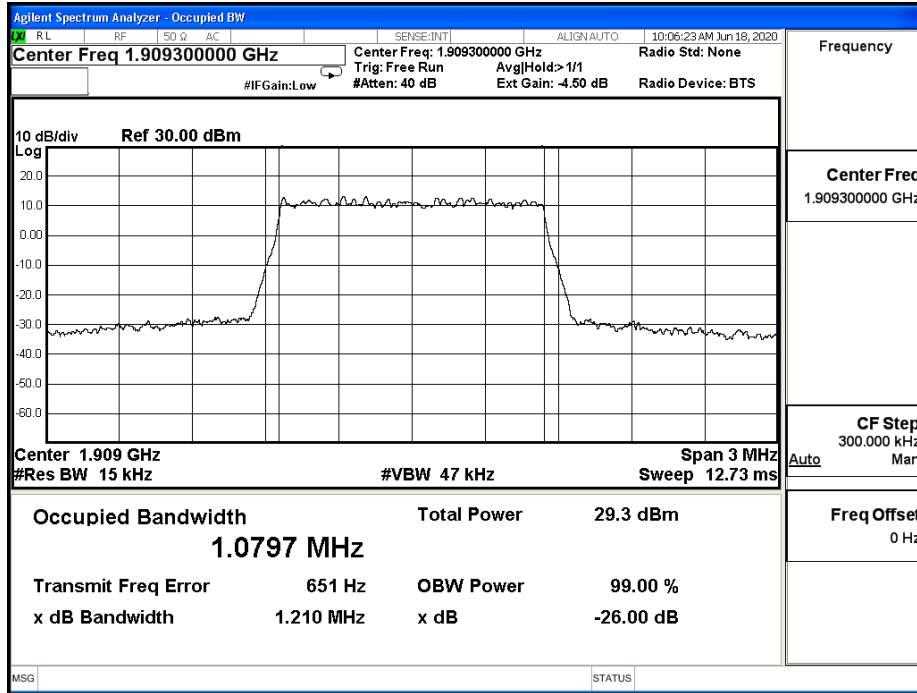
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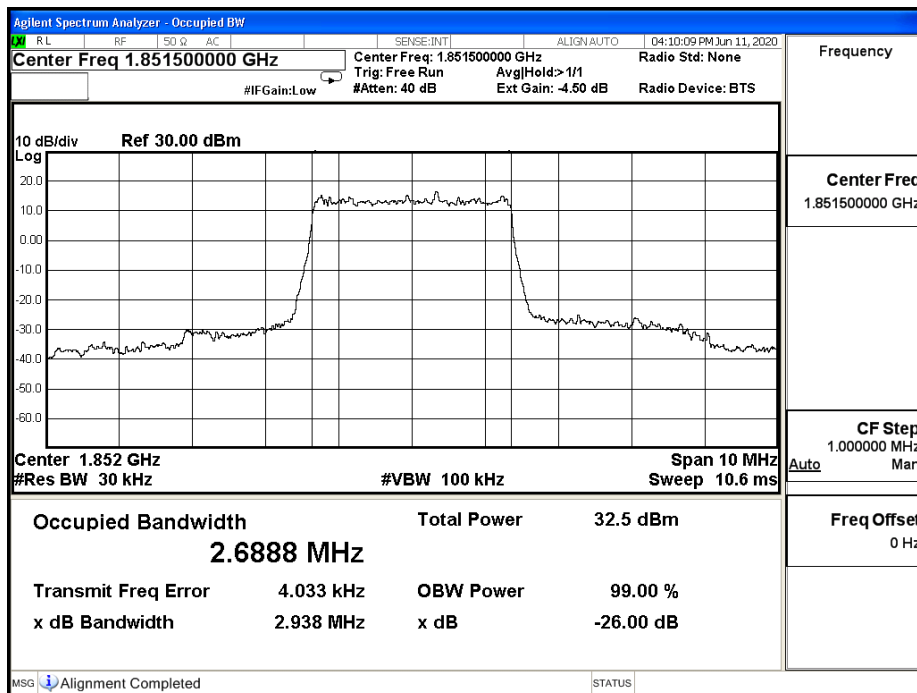
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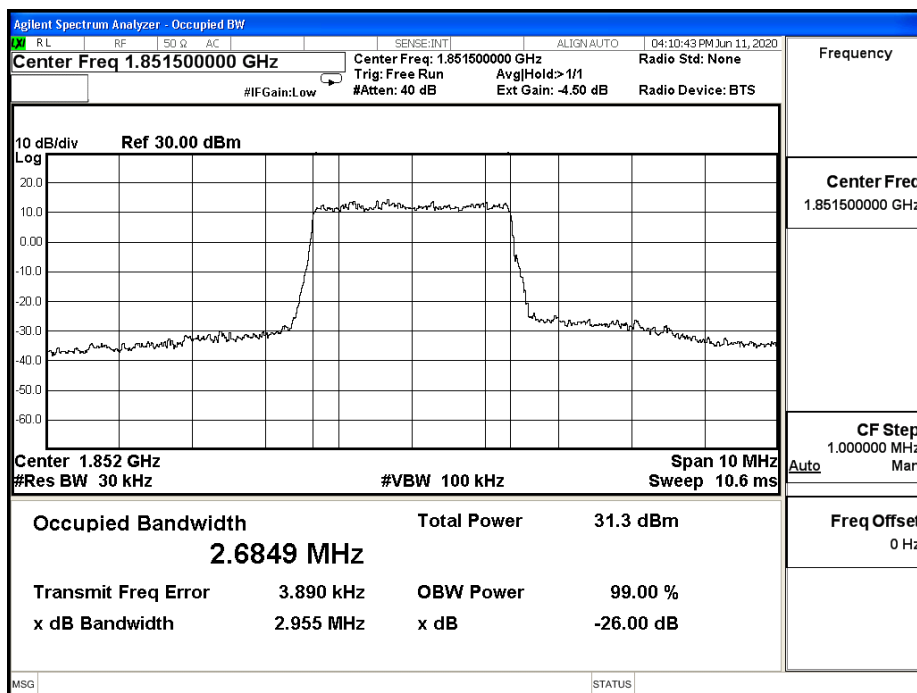
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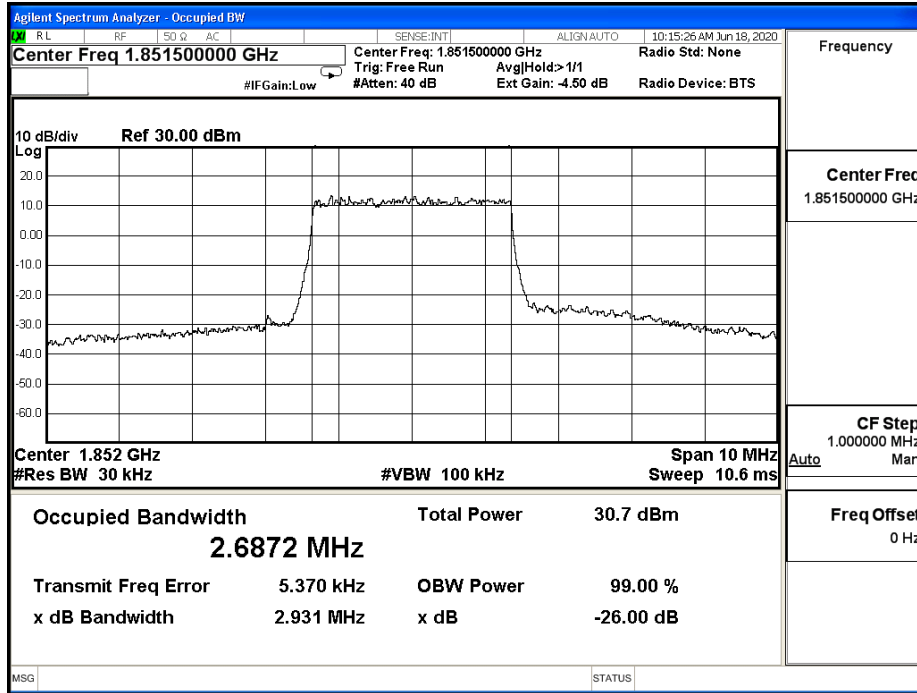
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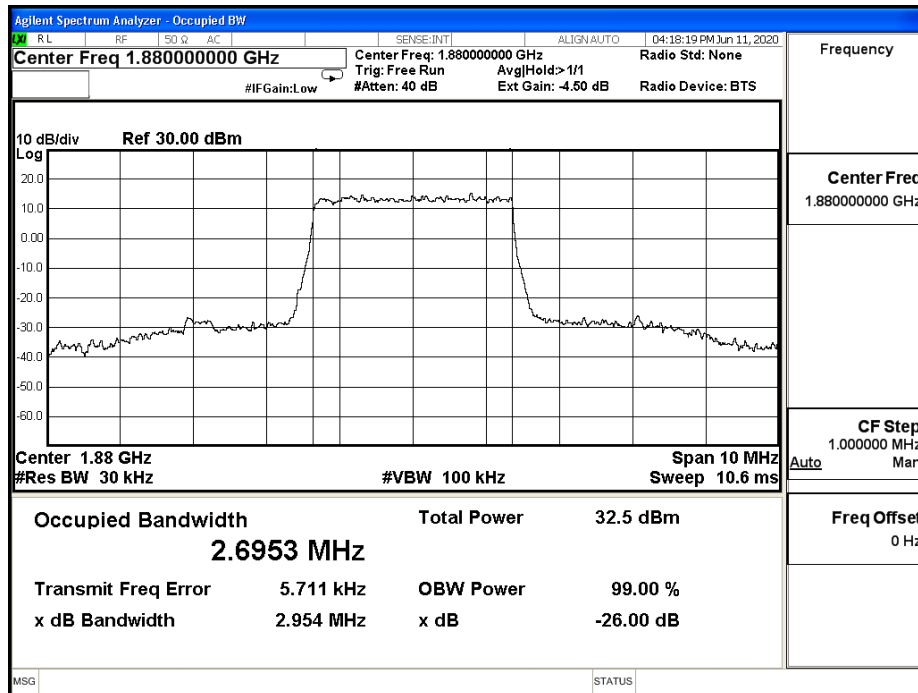
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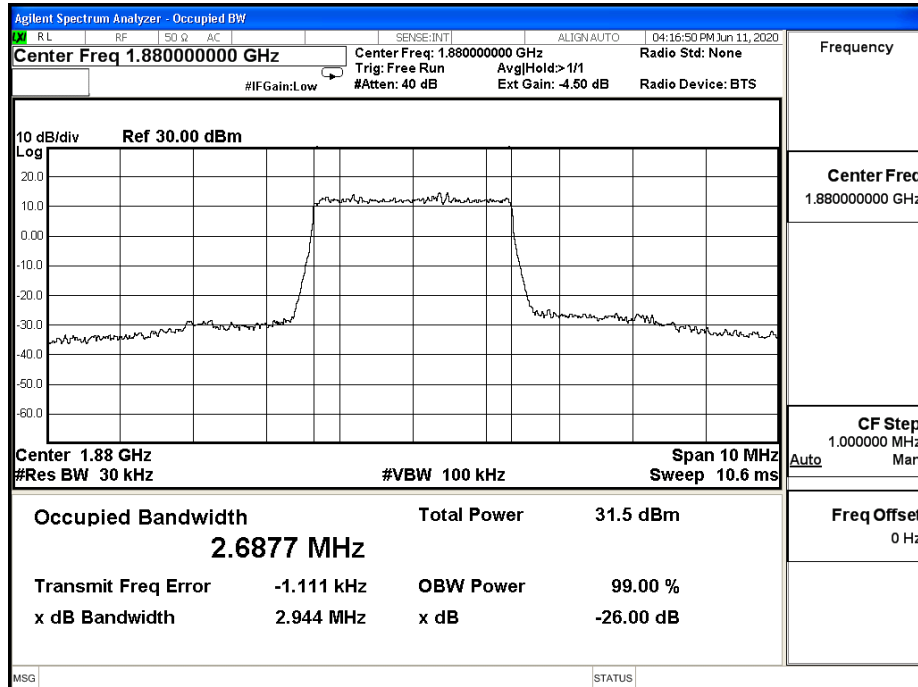
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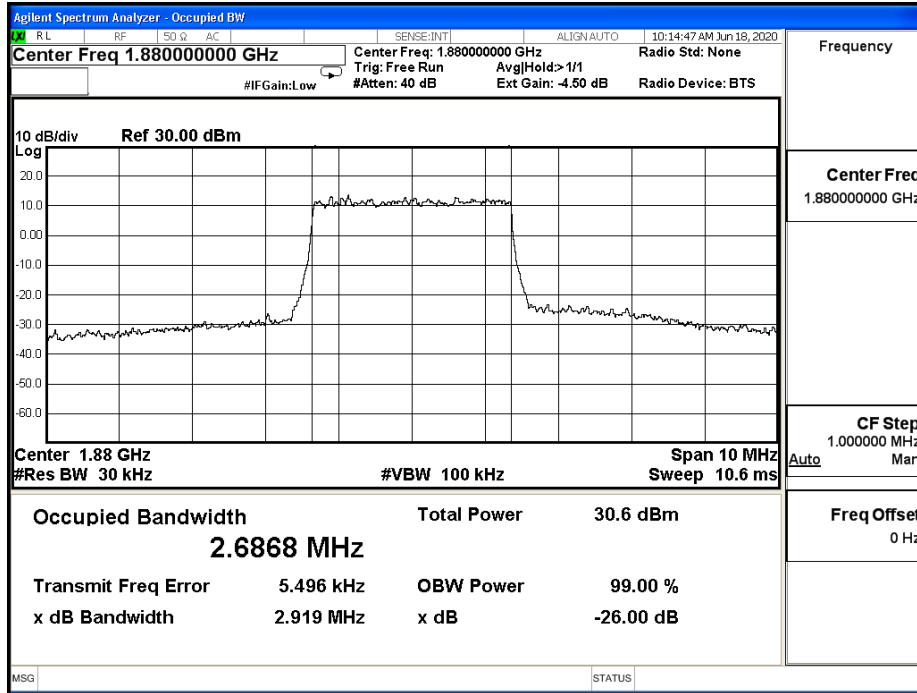
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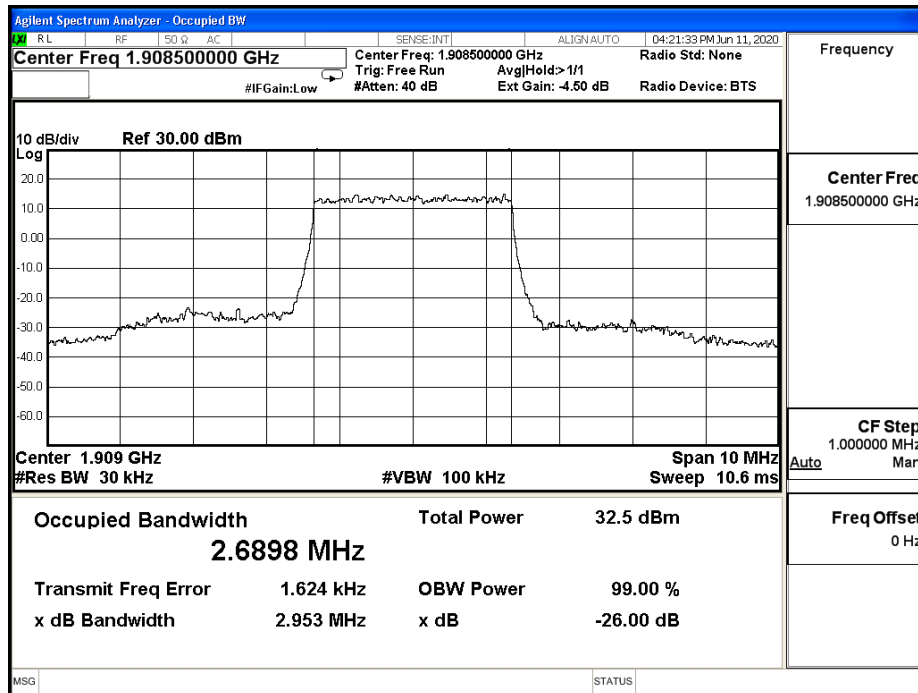
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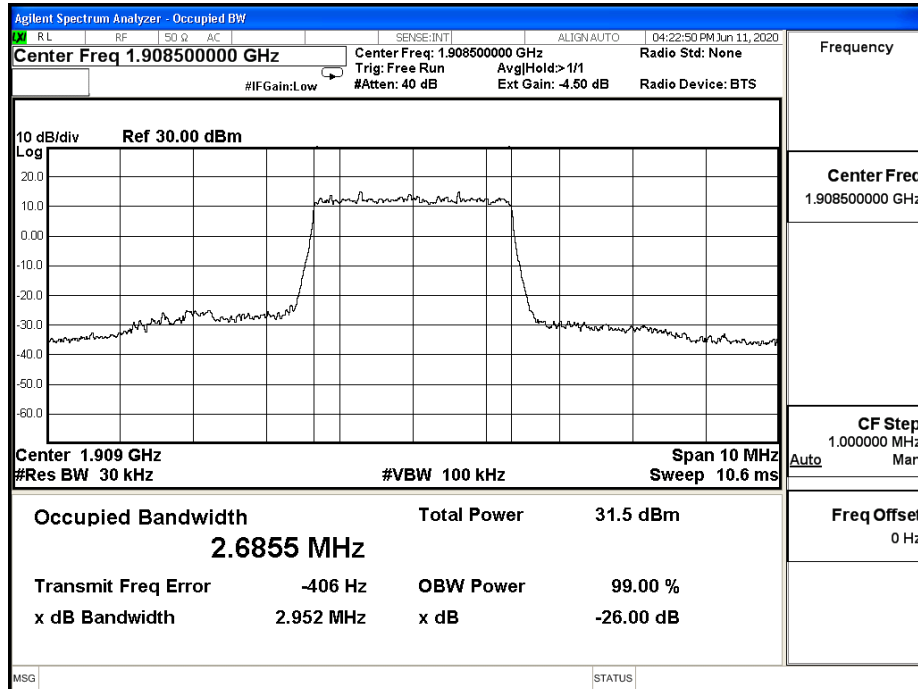
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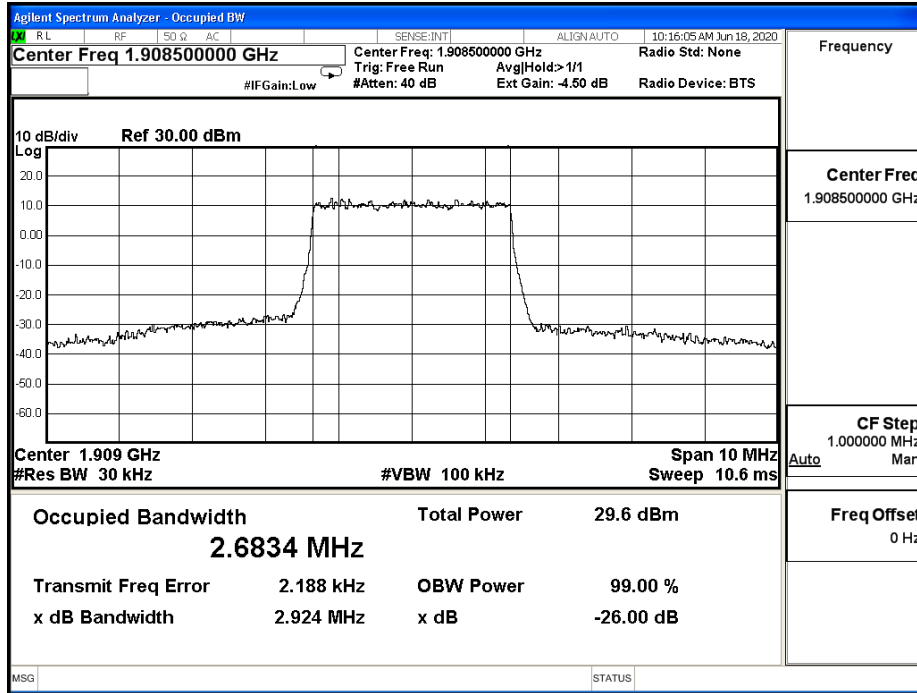
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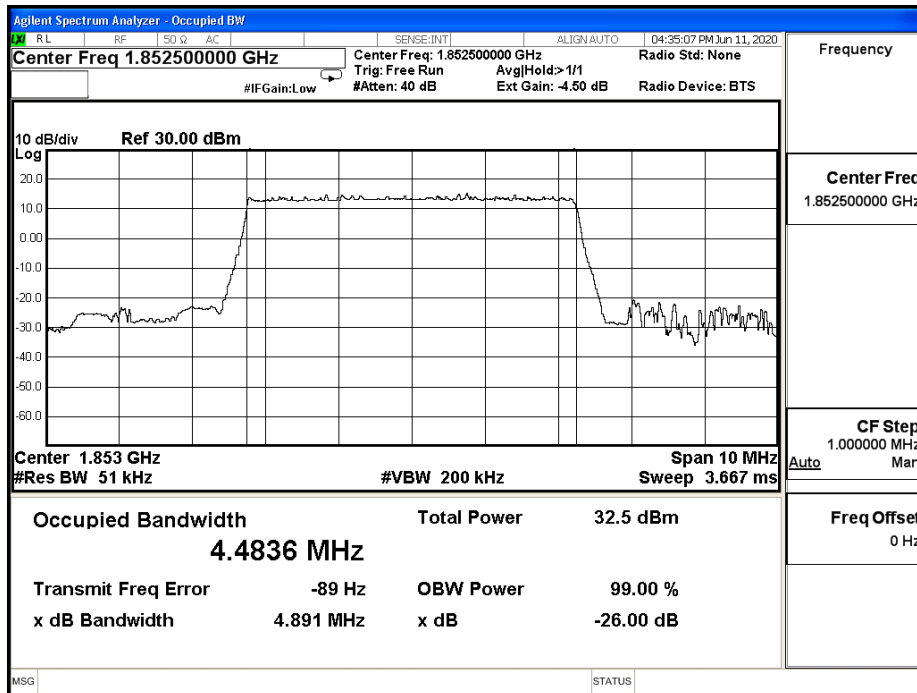
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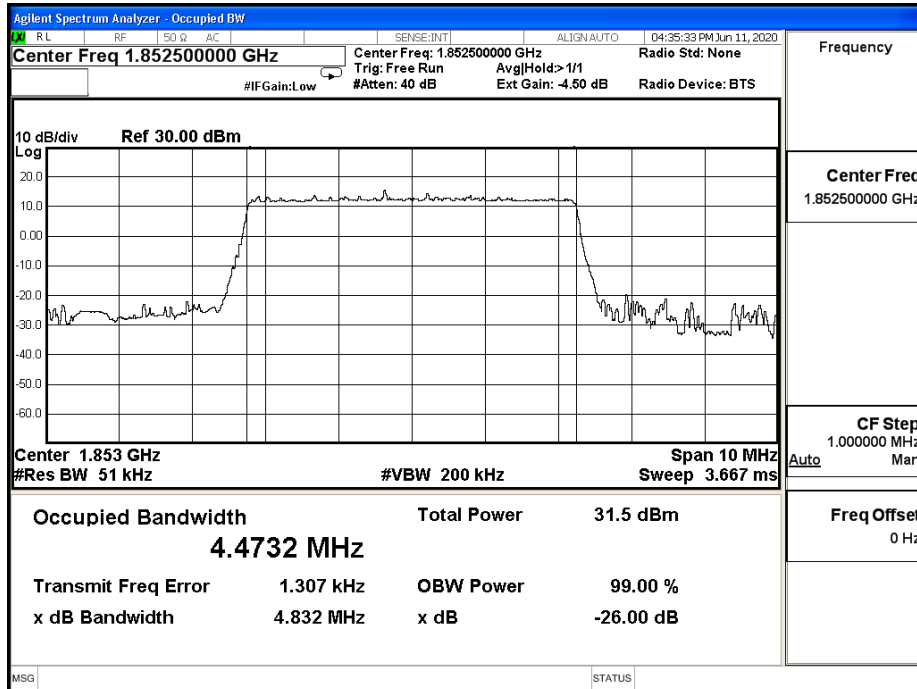
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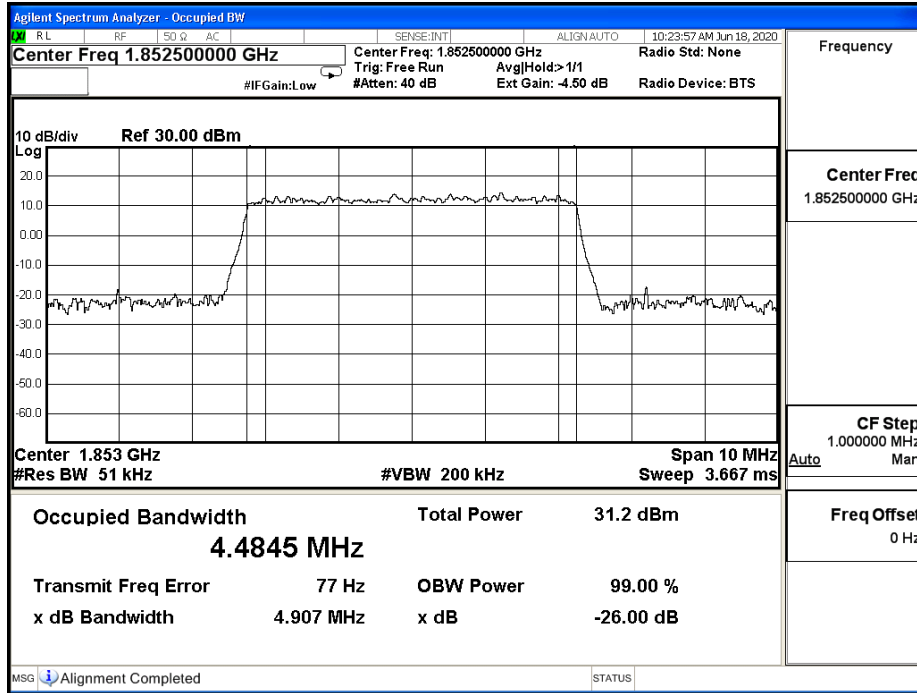
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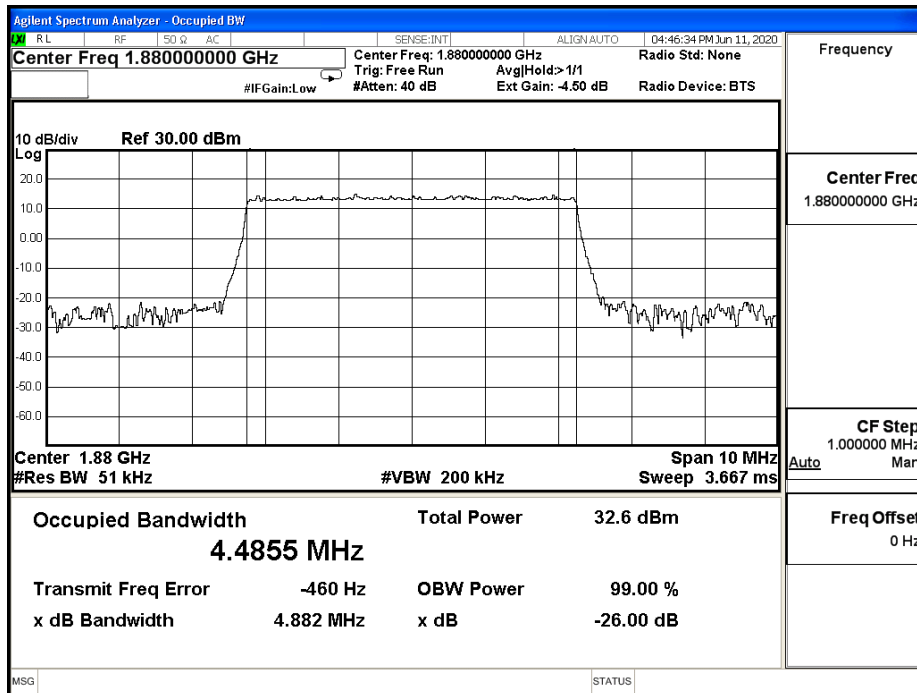
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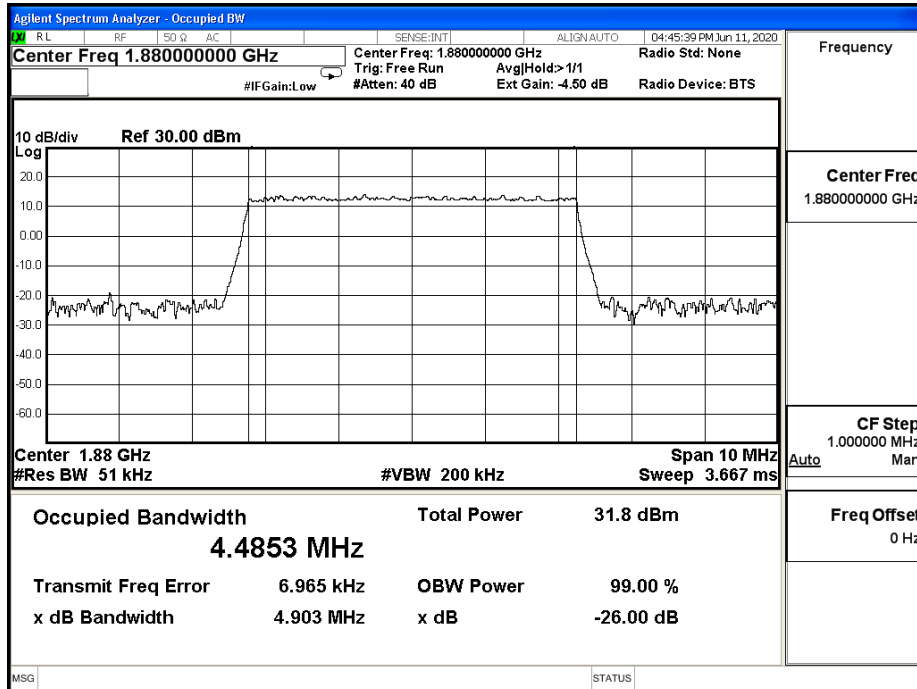
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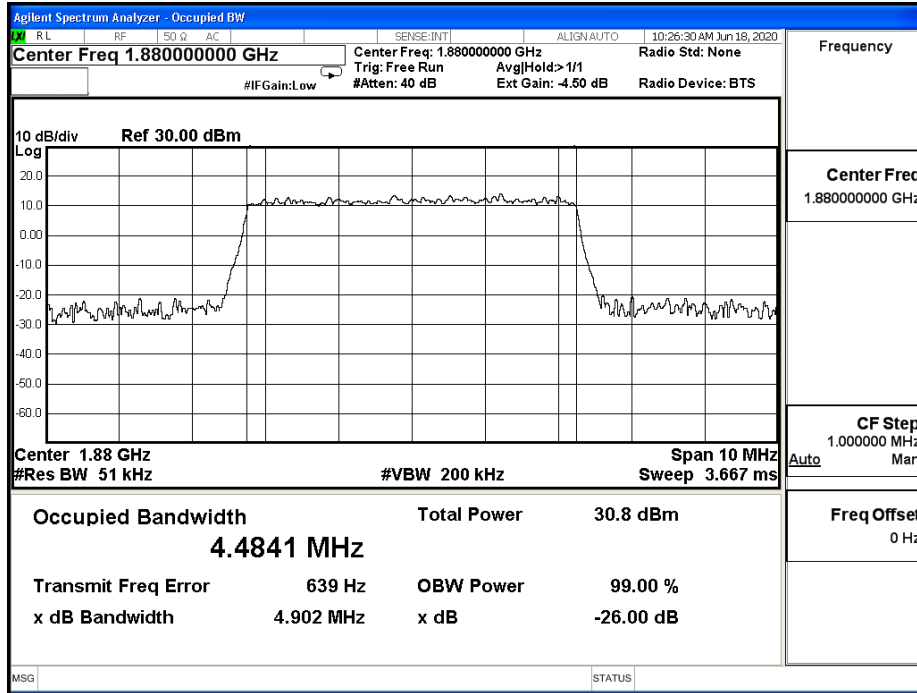
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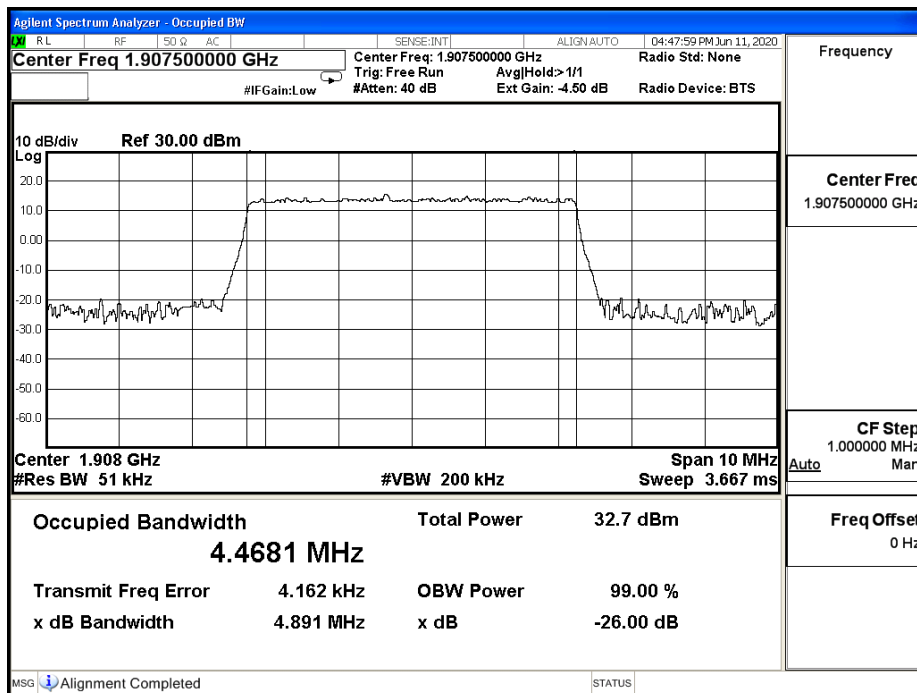
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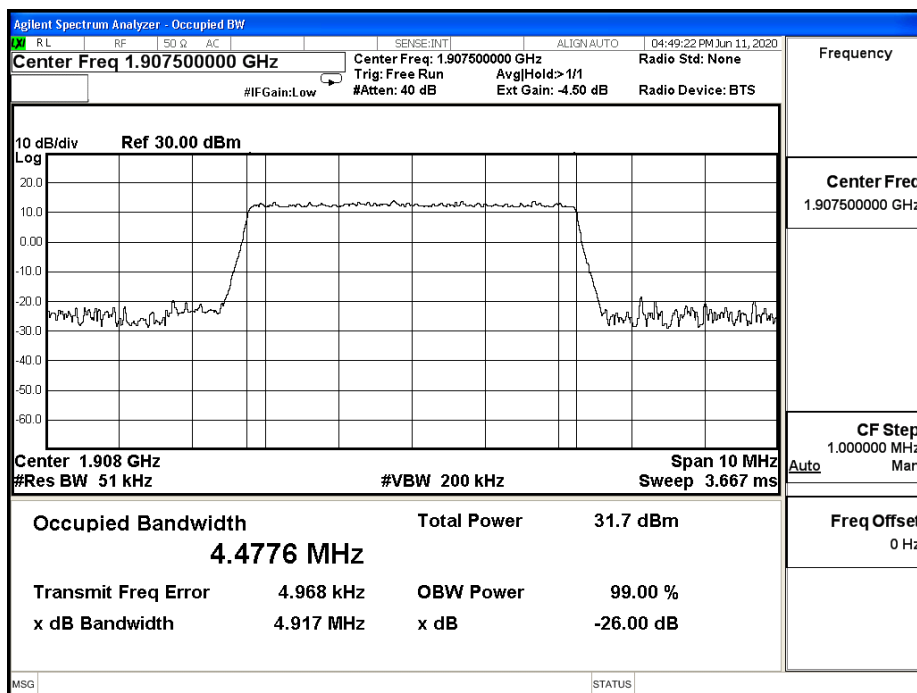
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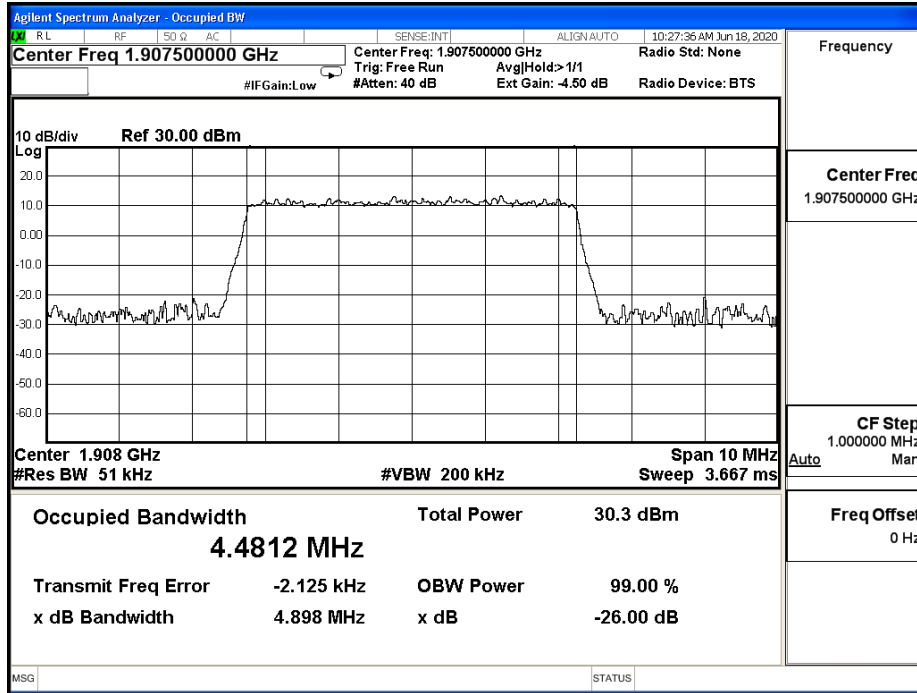
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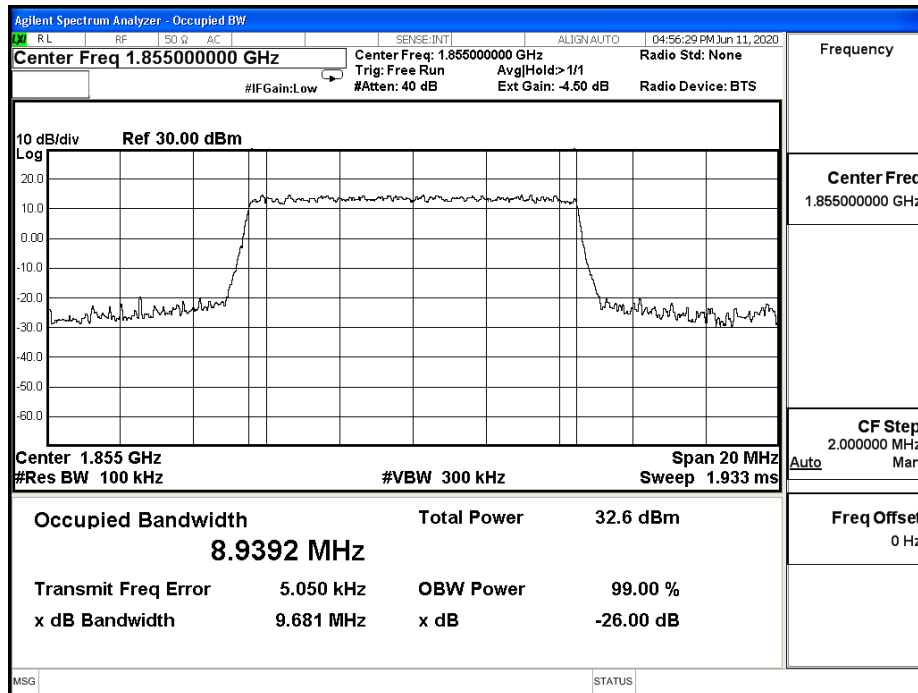
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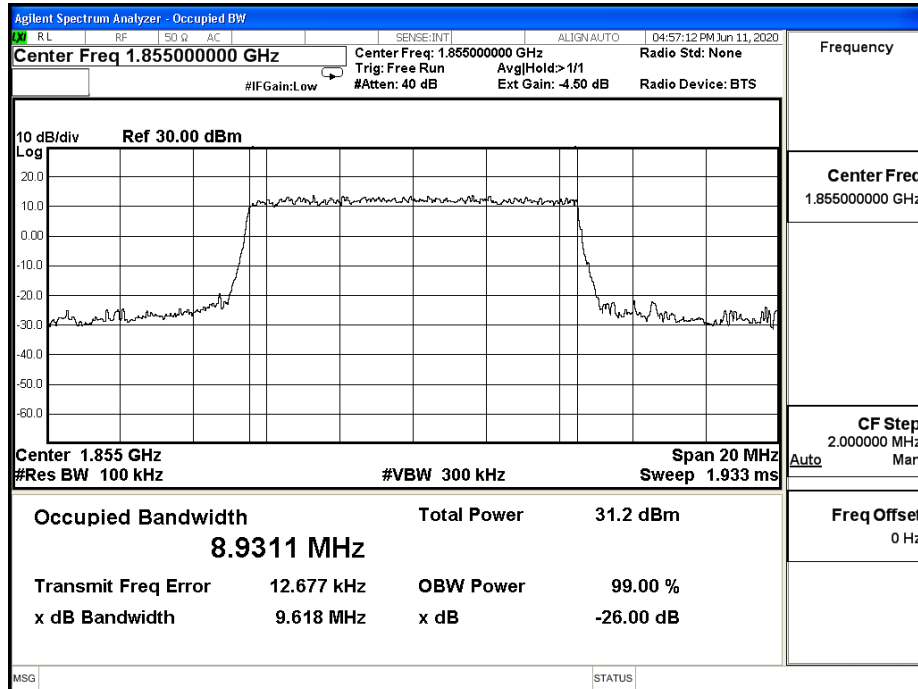
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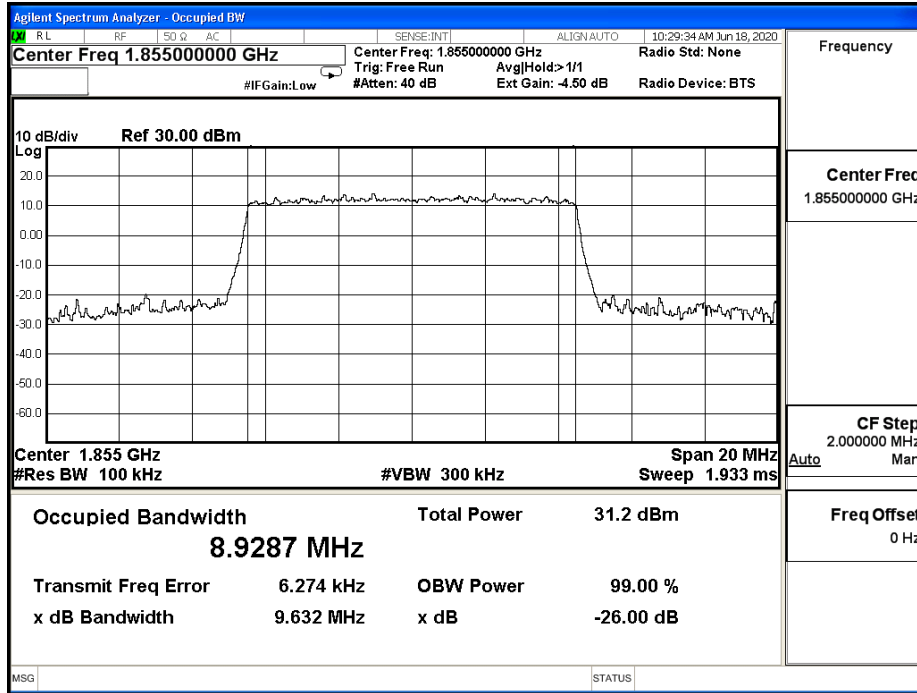
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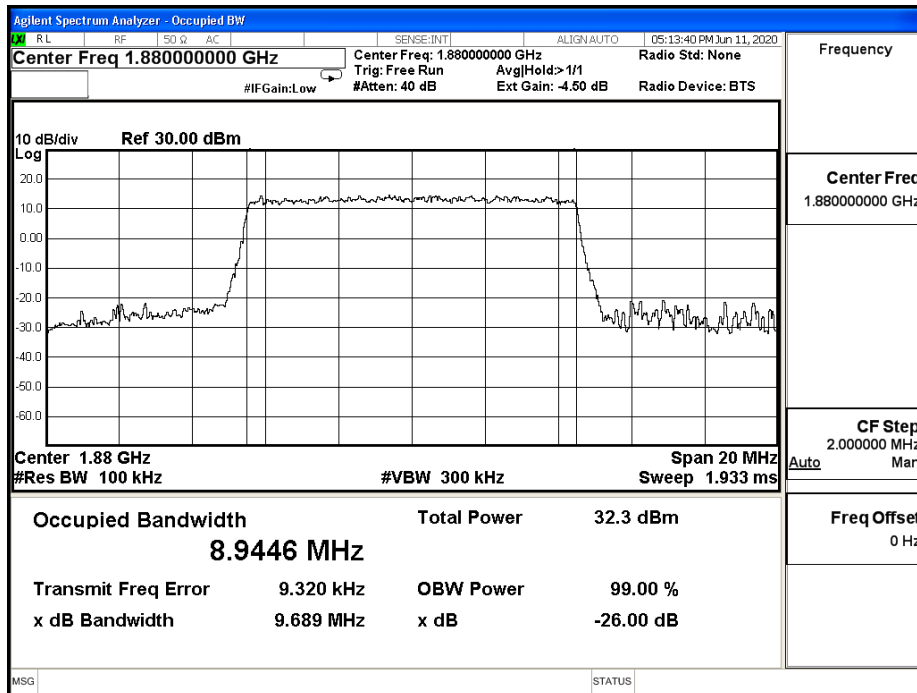
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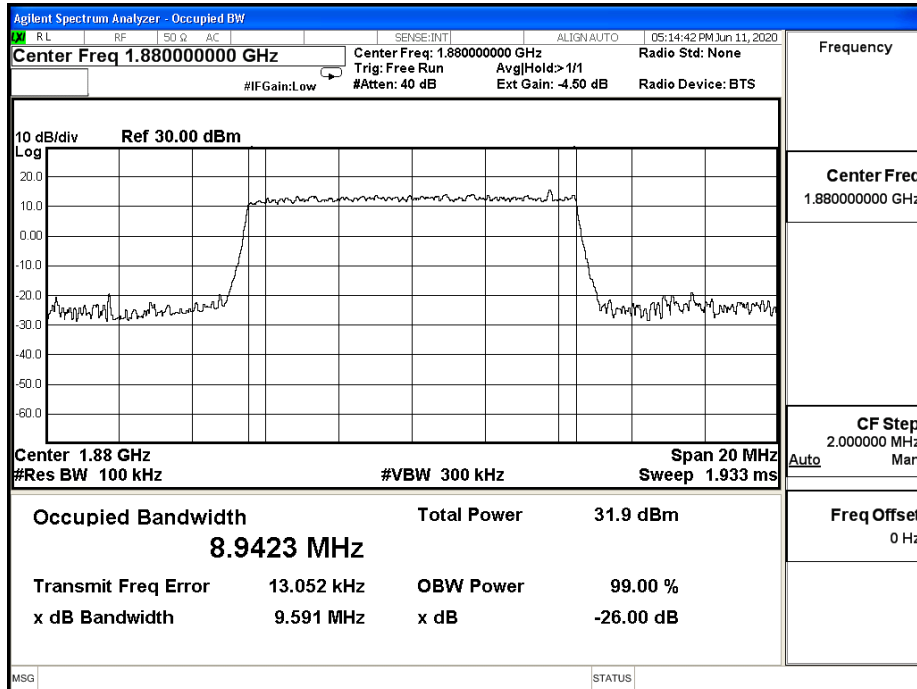
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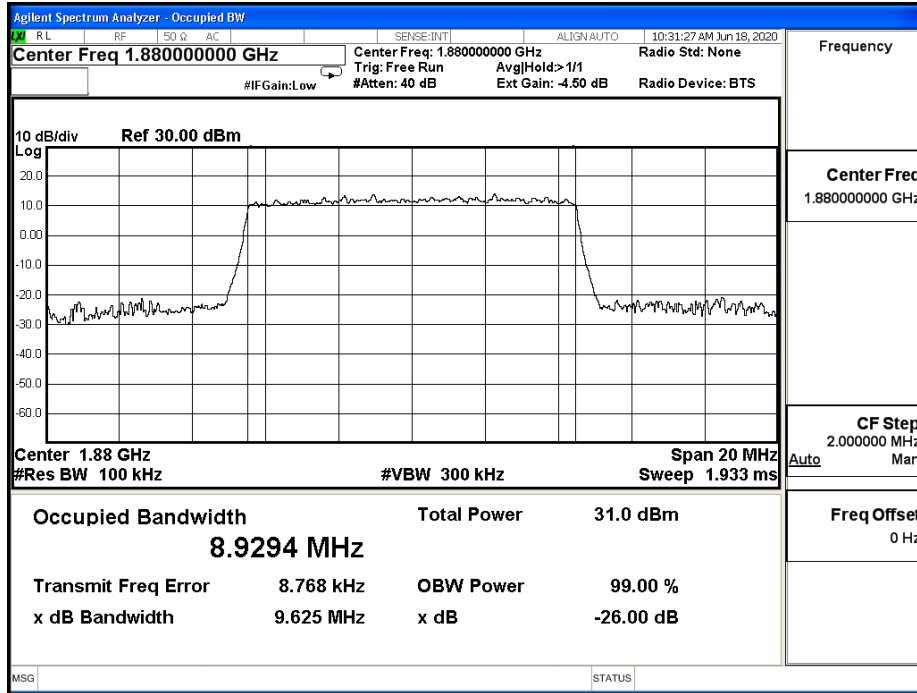
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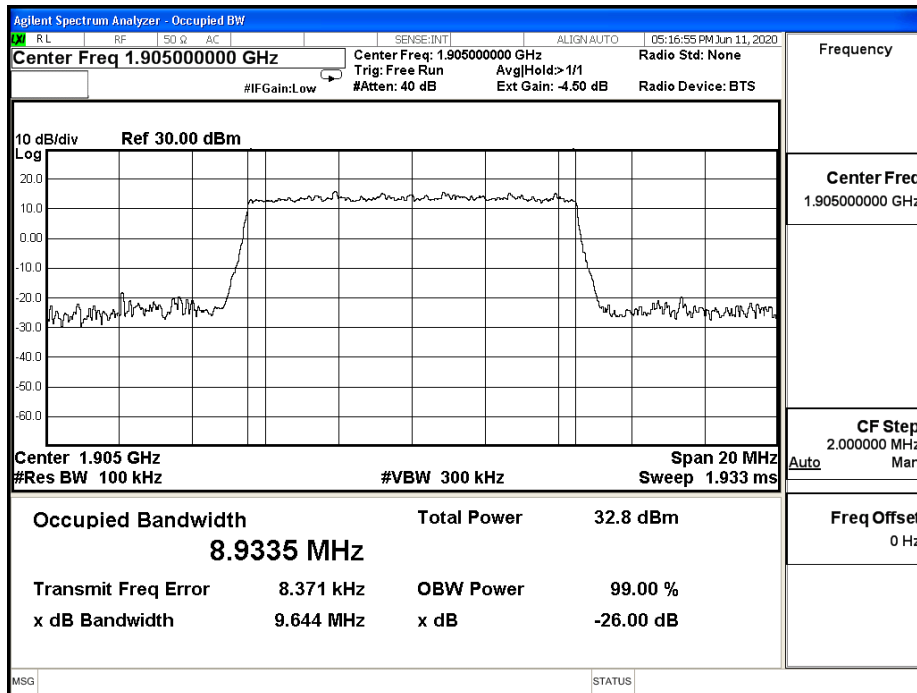
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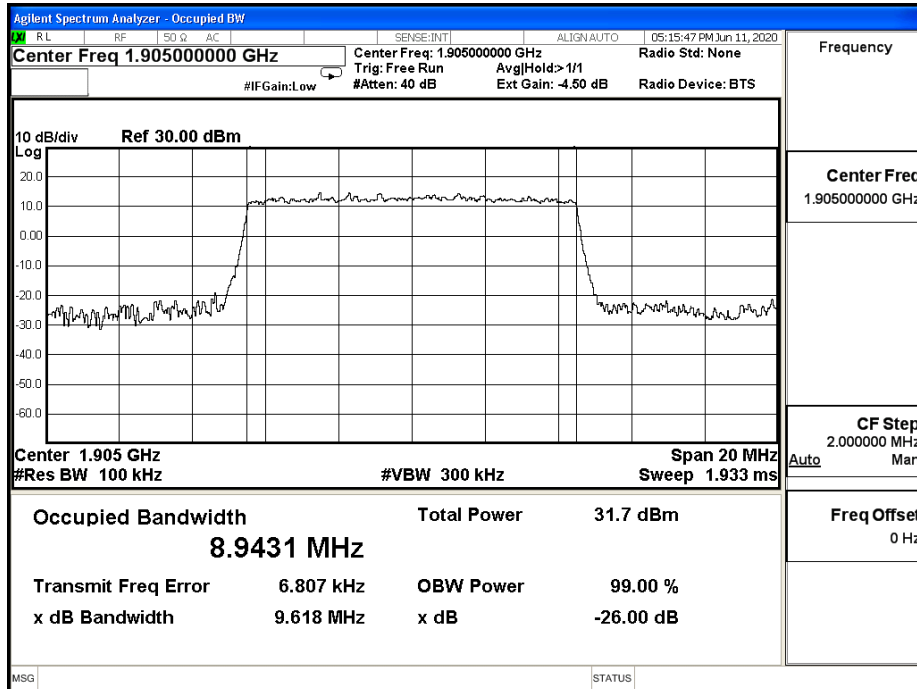
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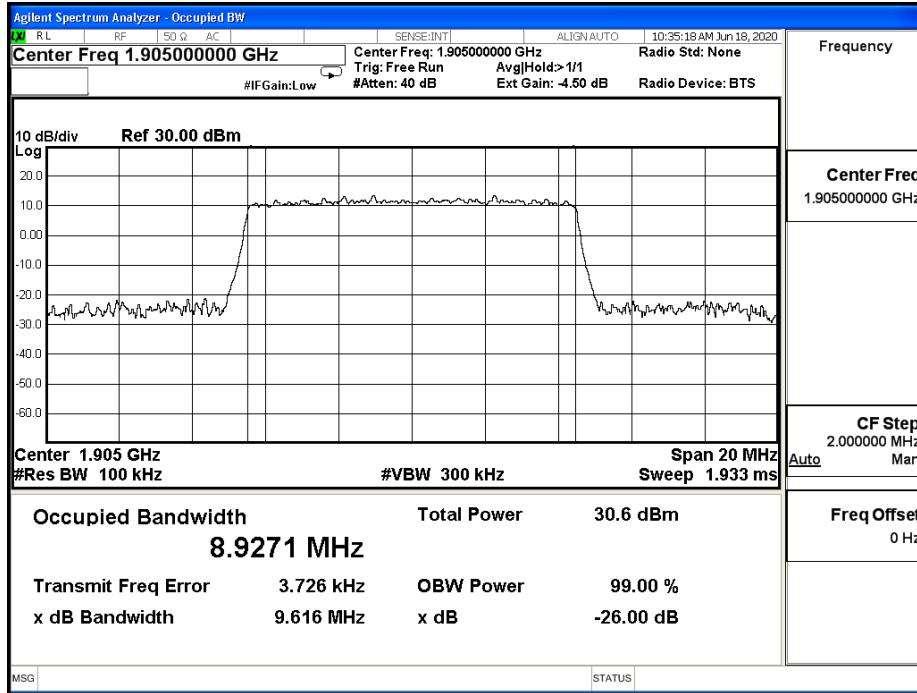
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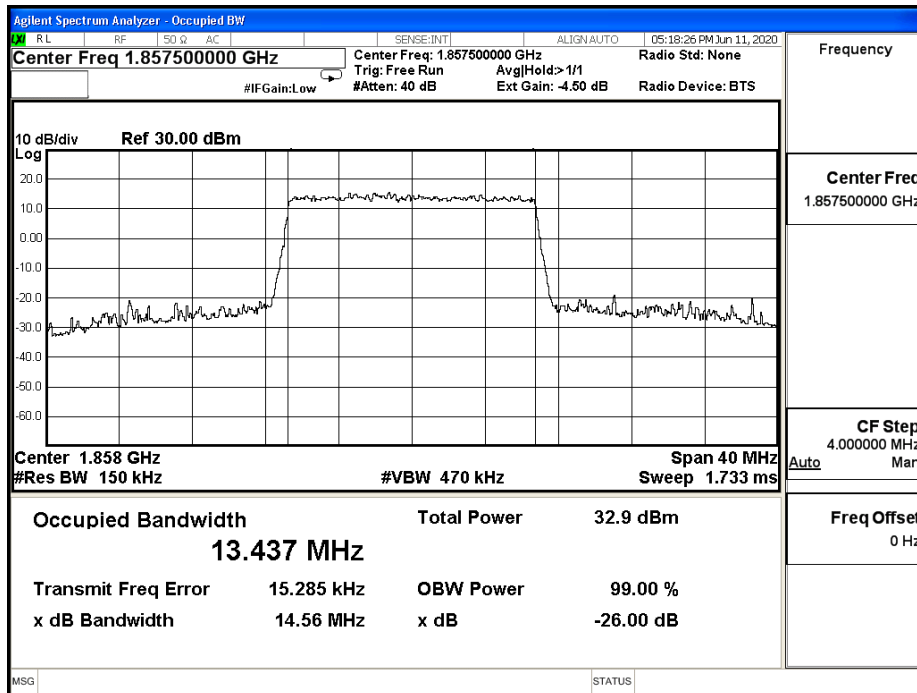
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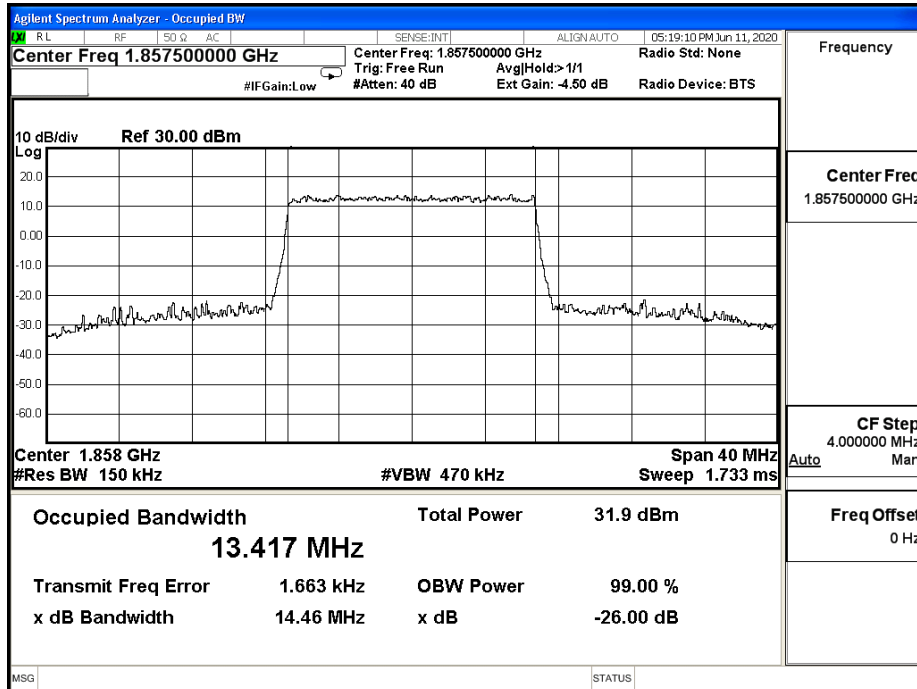
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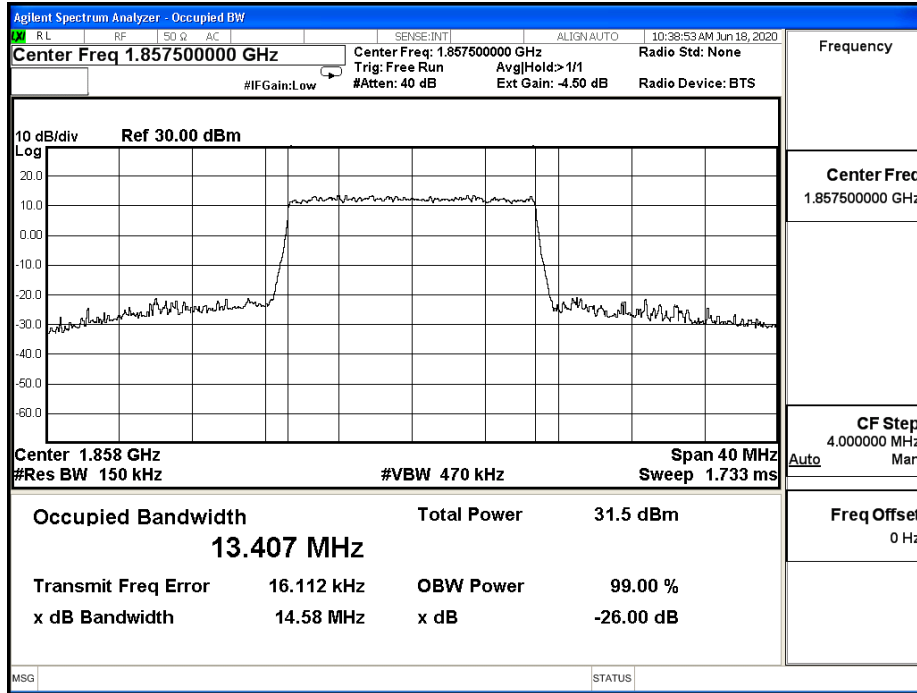
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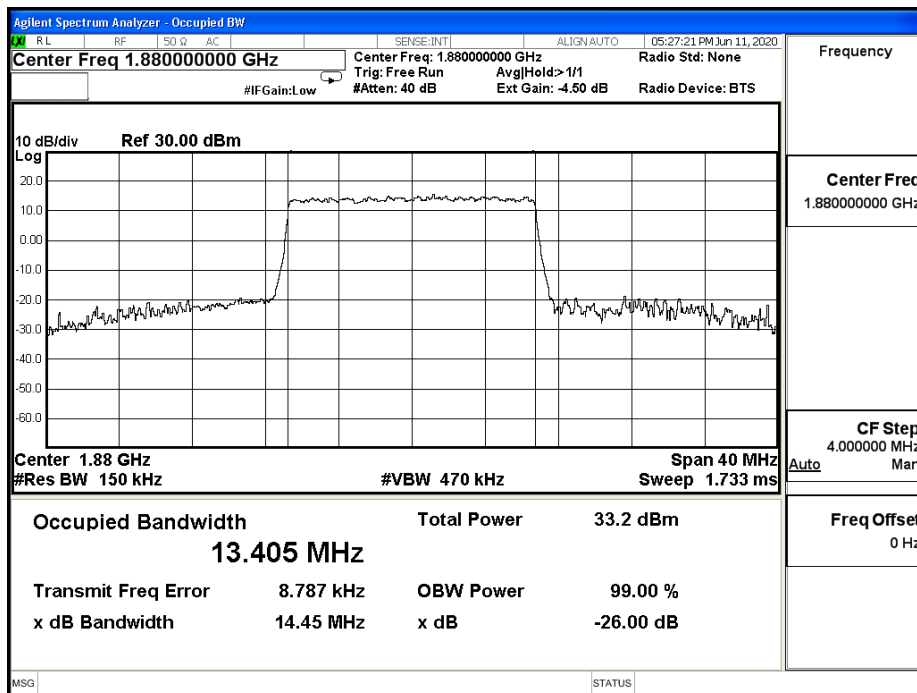
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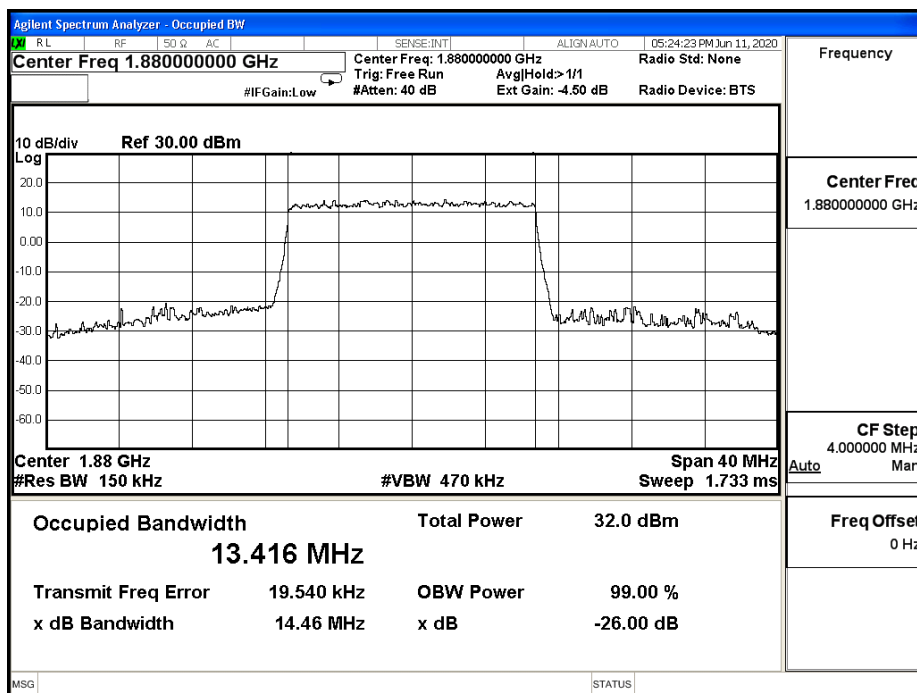
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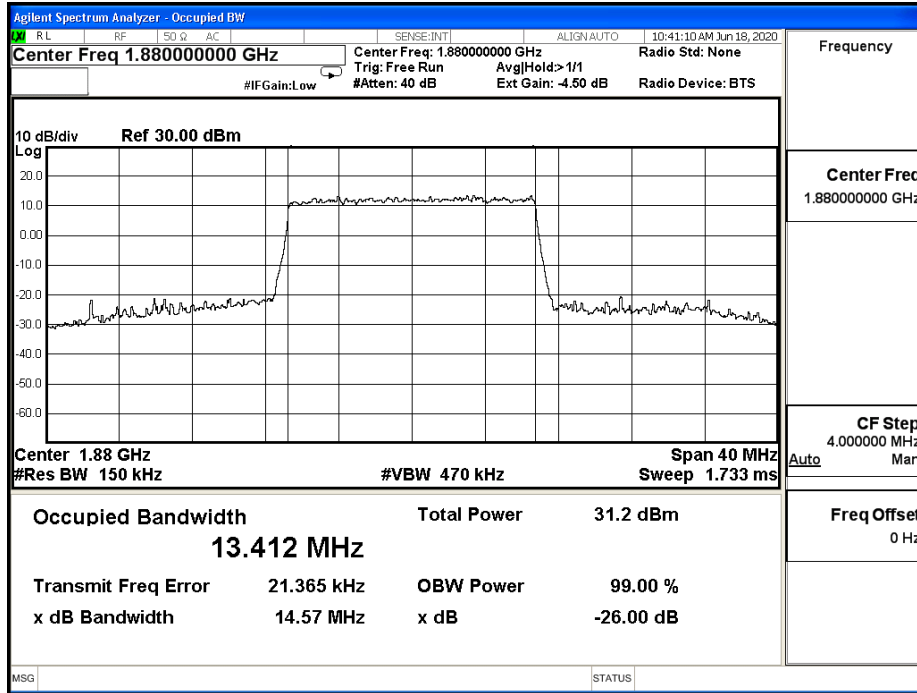
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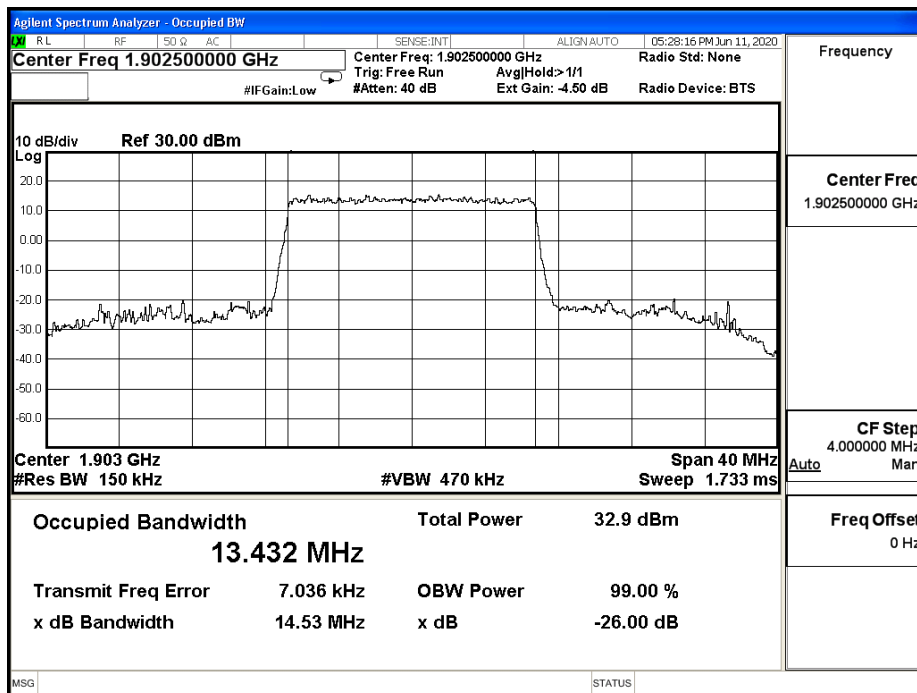
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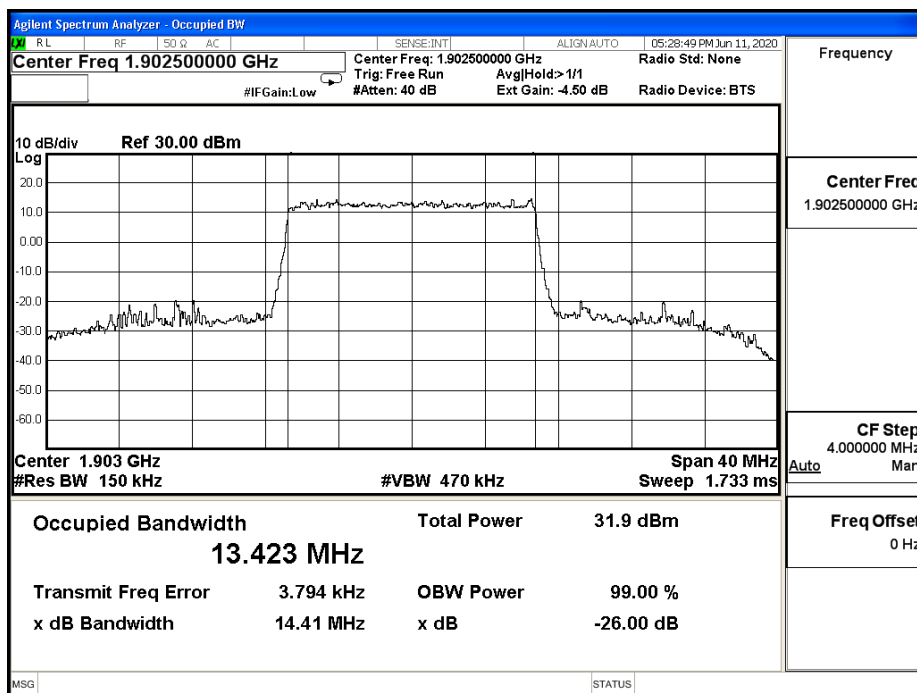
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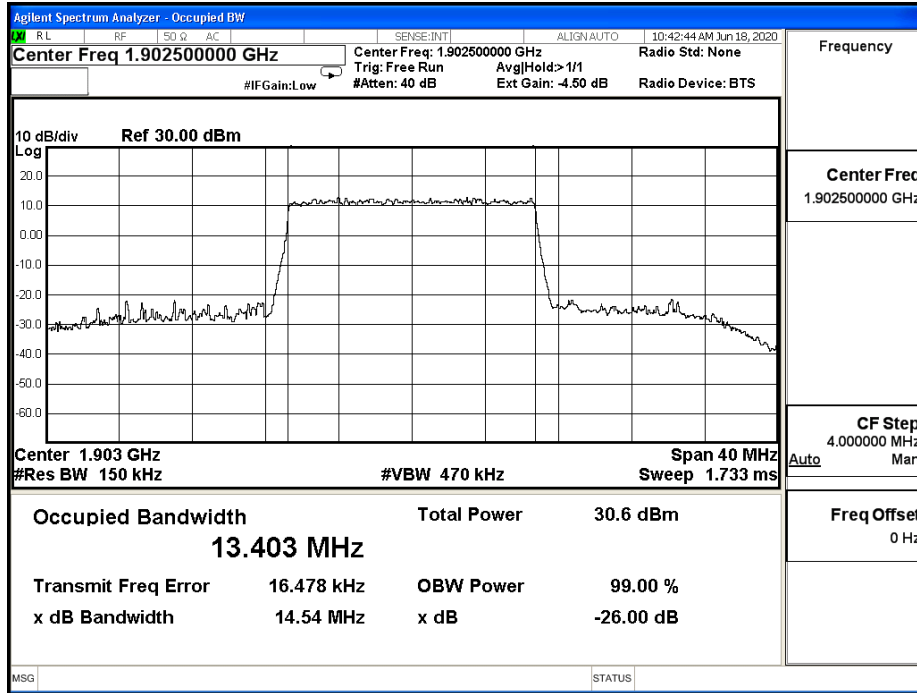
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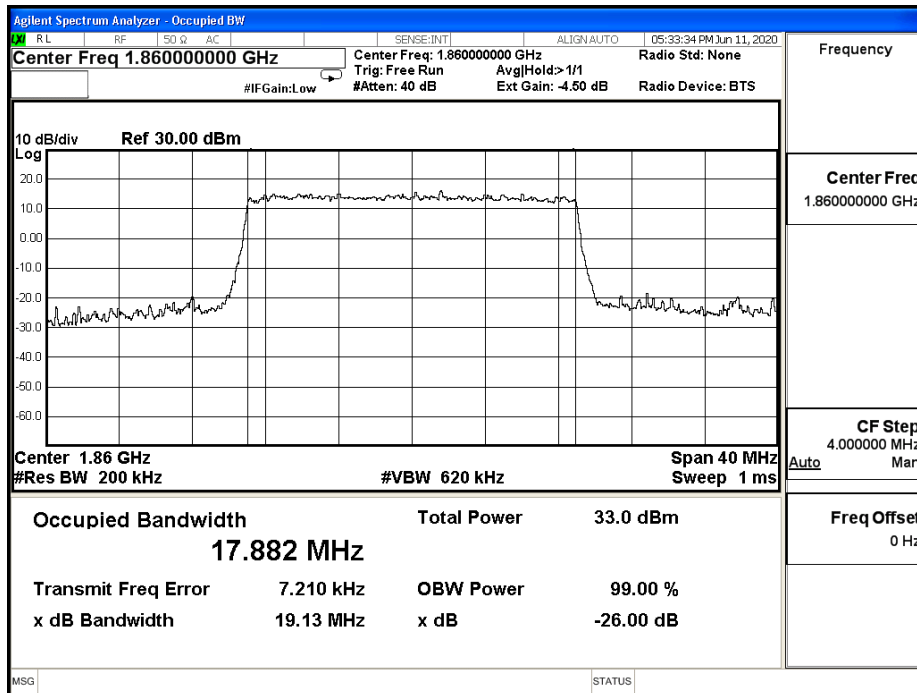
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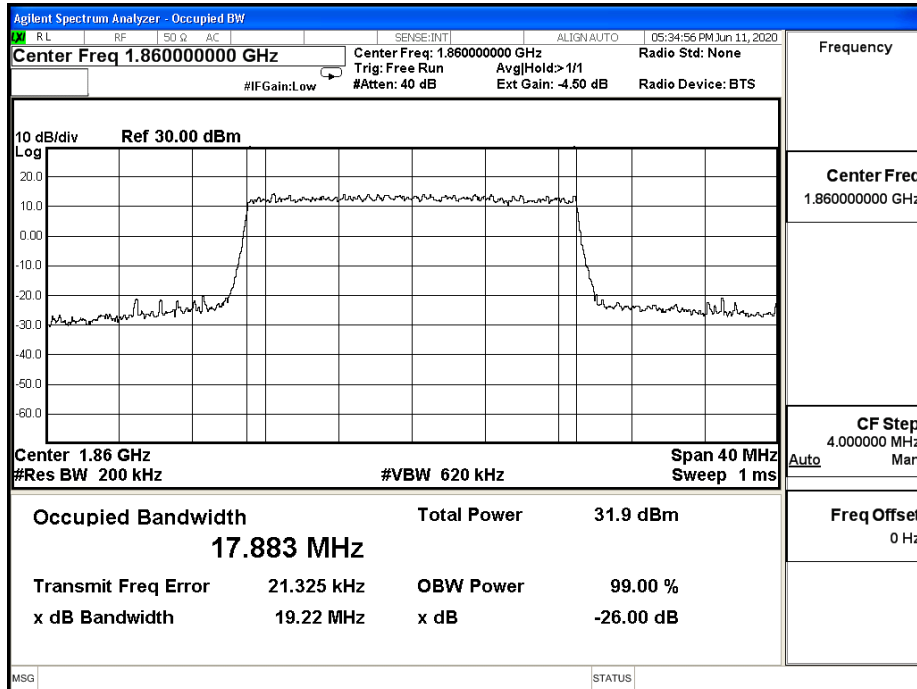
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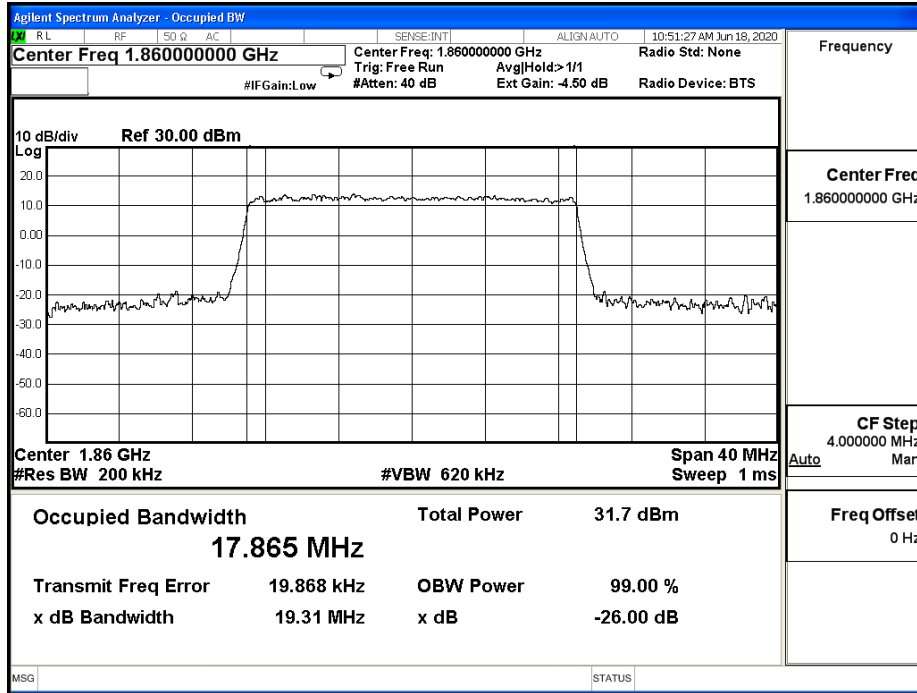
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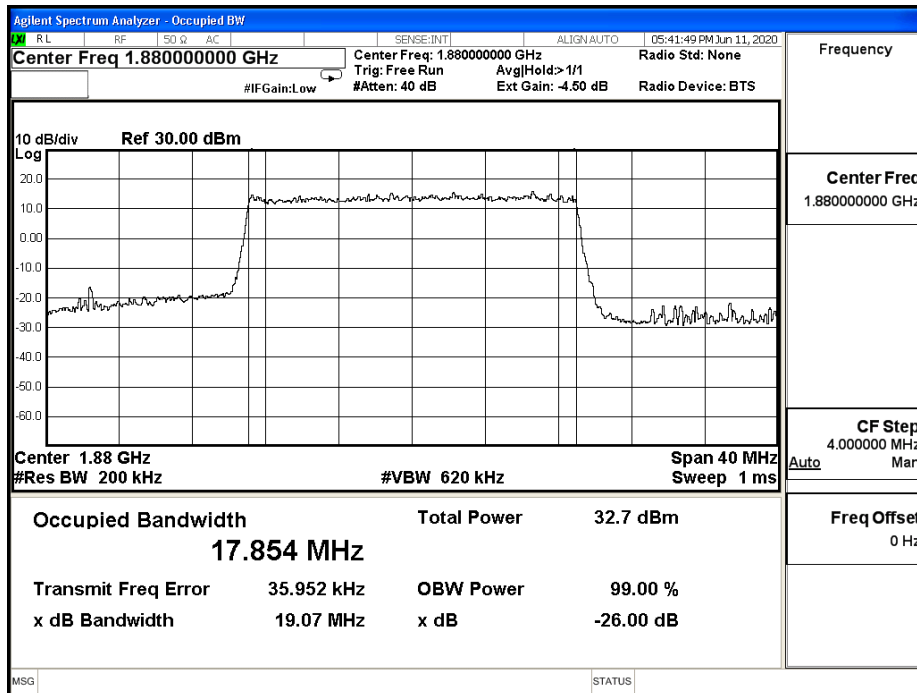
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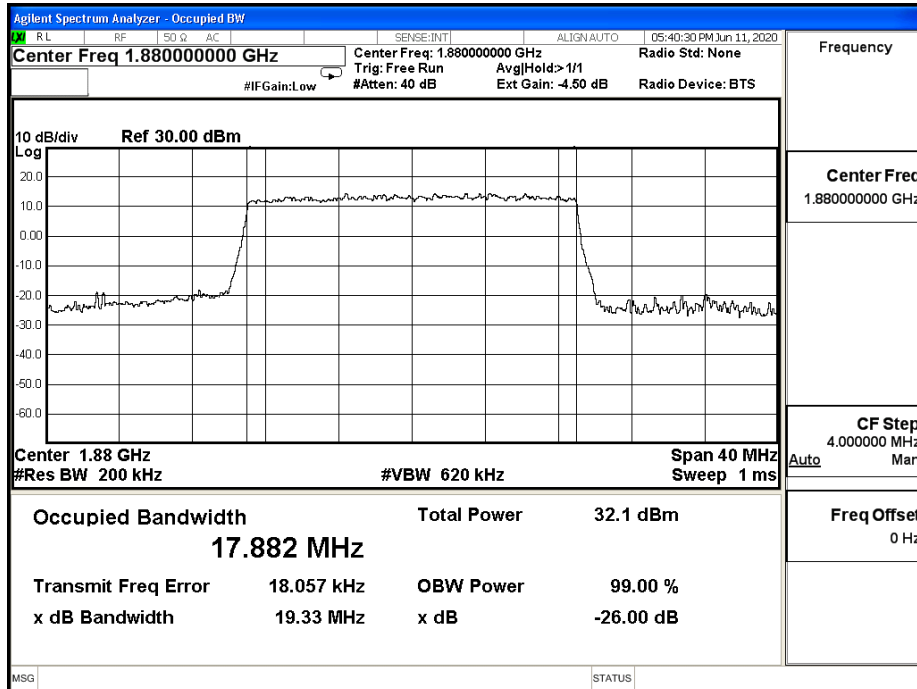
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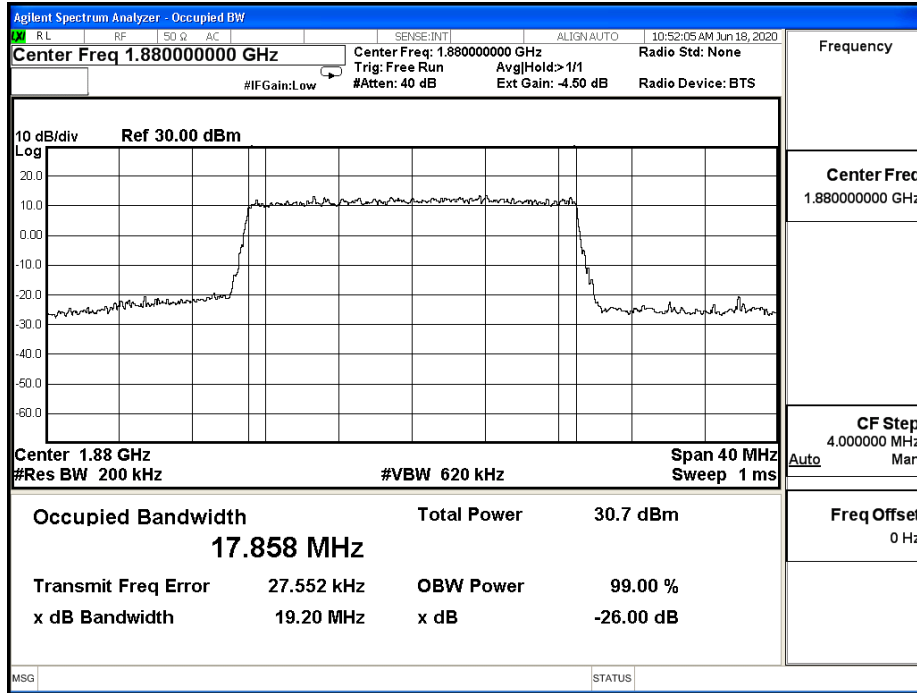
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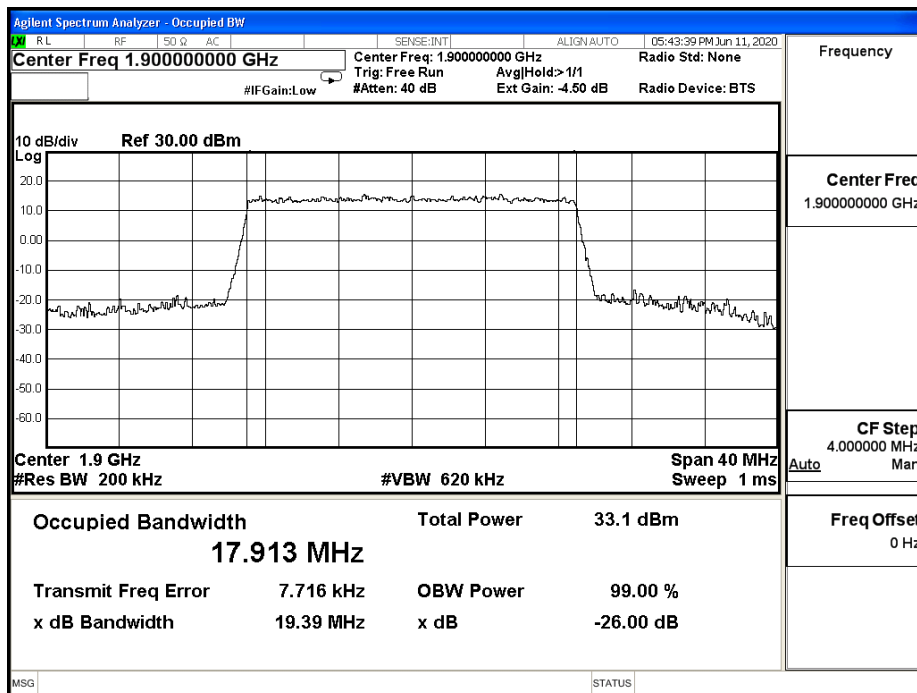
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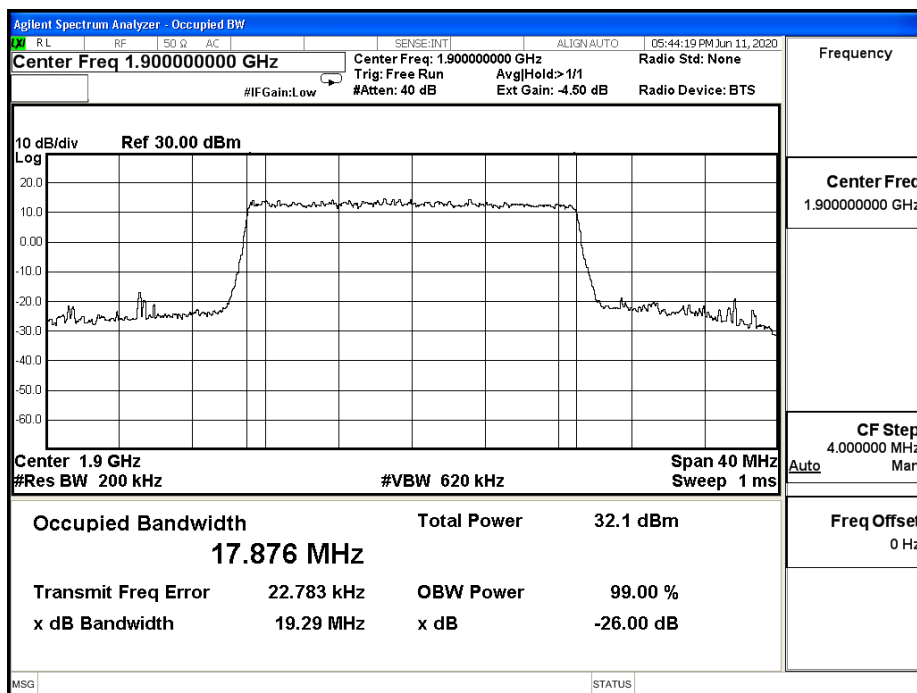
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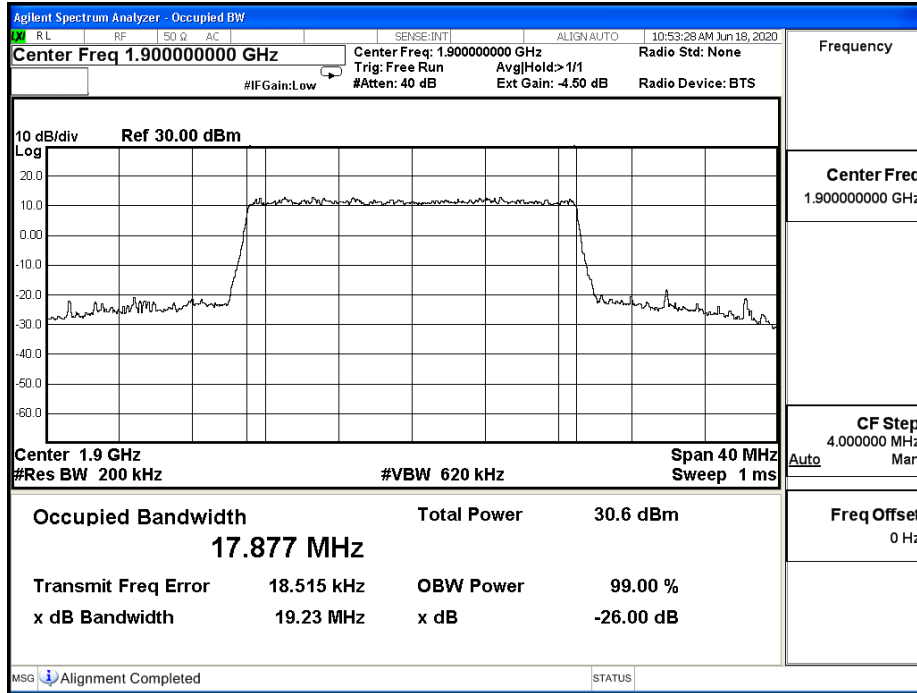
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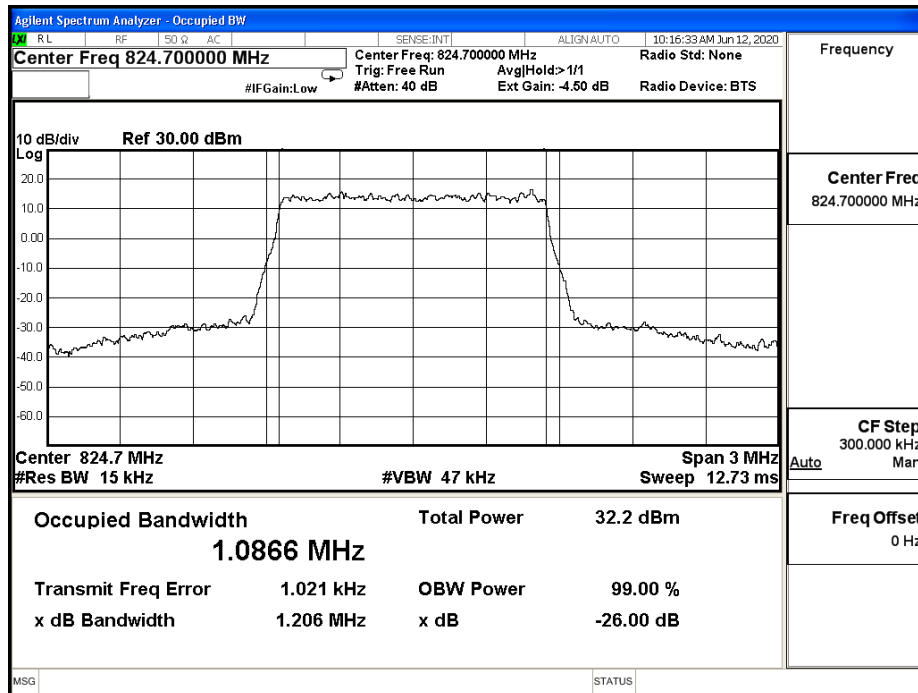


| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 2: LTE Band 5 | | |
| Date of Test | 2020/06/12~2020/06/18 | Test Site | SR12-H |
| Temperature (°C) | 25 | Humidity (%RH) | 55 |

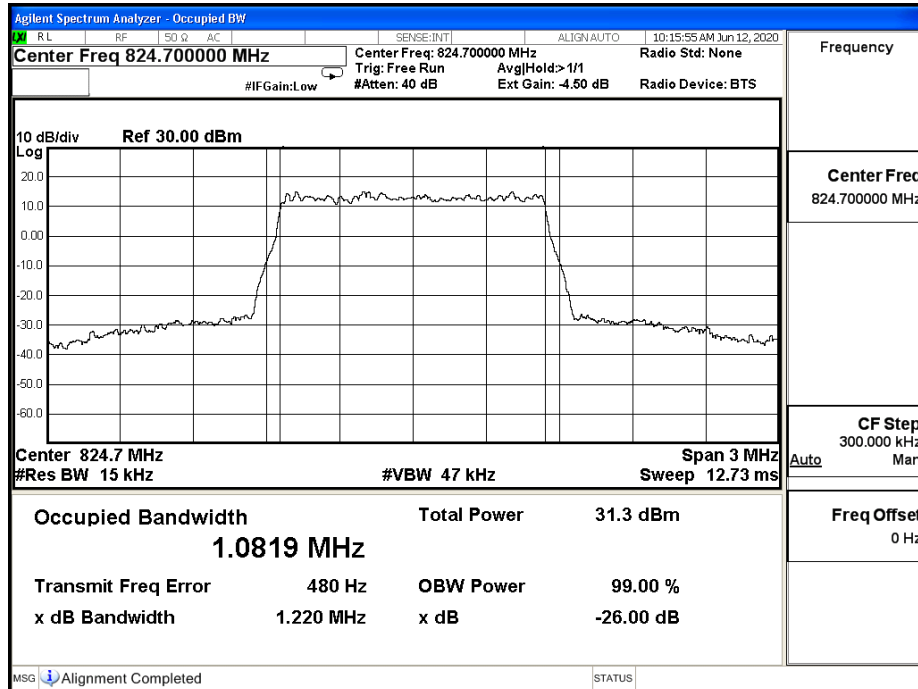
| LTE Band5_Full RB | | | | | |
|-------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 824.7 | 1.206 | 1.086 | N/A |
| | | 836.5 | 1.216 | 1.079 | N/A |
| | | 848.3 | 1.219 | 1.079 | N/A |
| | 16-QAM | 824.7 | 1.220 | 1.081 | N/A |
| | | 836.5 | 1.224 | 1.081 | N/A |
| | | 848.3 | 1.202 | 1.079 | N/A |
| | 64-QAM | 824.7 | 1.208 | 1.078 | N/A |
| | | 836.5 | 1.213 | 1.079 | N/A |
| | | 848.3 | 1.210 | 1.079 | N/A |
| 3M | QPSK | 825.5 | 2.935 | 2.687 | N/A |
| | | 836.5 | 2.943 | 2.694 | N/A |
| | | 847.5 | 2.953 | 2.688 | N/A |
| | 16-QAM | 825.5 | 2.958 | 2.686 | N/A |
| | | 836.5 | 2.952 | 2.686 | N/A |
| | | 847.5 | 2.950 | 2.685 | N/A |
| | 64-QAM | 825.5 | 2.920 | 2.688 | N/A |
| | | 836.5 | 2.909 | 2.686 | N/A |
| | | 847.5 | 2.909 | 2.688 | N/A |
| 5M | QPSK | 826.5 | 4.899 | 4.487 | N/A |
| | | 836.5 | 4.908 | 4.487 | N/A |
| | | 846.5 | 4.892 | 4.470 | N/A |
| | 16-QAM | 826.5 | 4.853 | 4.471 | N/A |
| | | 836.5 | 4.914 | 4.487 | N/A |
| | | 846.5 | 4.924 | 4.478 | N/A |
| | 64-QAM | 826.5 | 4.843 | 4.480 | N/A |
| | | 836.5 | 4.881 | 4.477 | N/A |
| | | 846.5 | 4.878 | 4.484 | N/A |

| LTE Band5_Full RB | | | | | |
|-------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 829.0 | 9.714 | 8.937 | N/A |
| | | 836.5 | 9.636 | 8.939 | N/A |
| | | 844.0 | 9.660 | 8.931 | N/A |
| | 16-QAM | 829.0 | 9.601 | 8.935 | N/A |
| | | 836.5 | 9.639 | 8.939 | N/A |
| | | 844.0 | 9.603 | 8.930 | N/A |
| | 64-QAM | 829.0 | 9.574 | 8.916 | N/A |
| | | 836.5 | 9.621 | 8.934 | N/A |
| | | 844.0 | 9.616 | 8.912 | N/A |

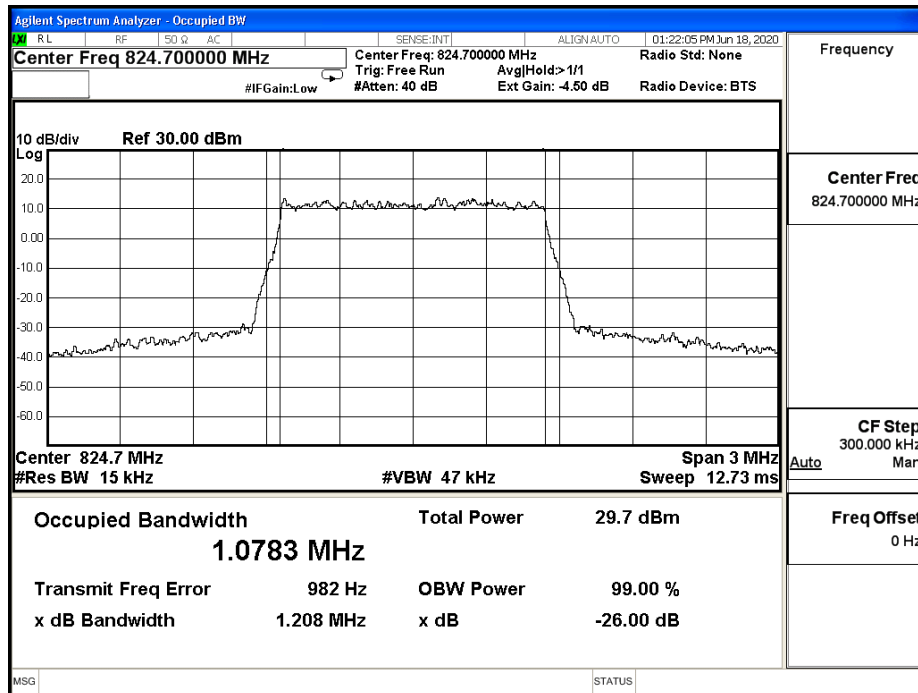
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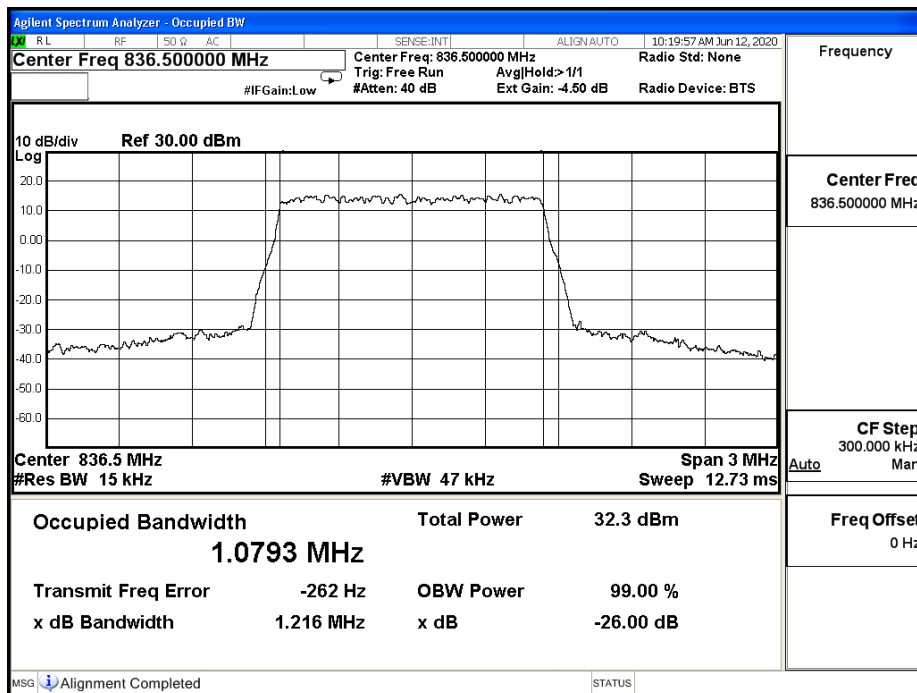
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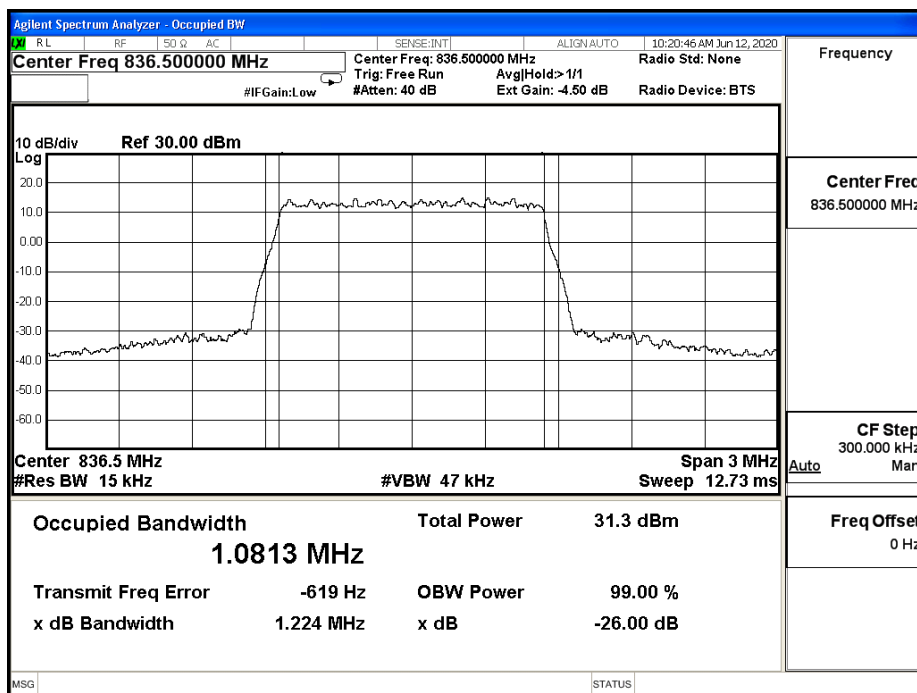
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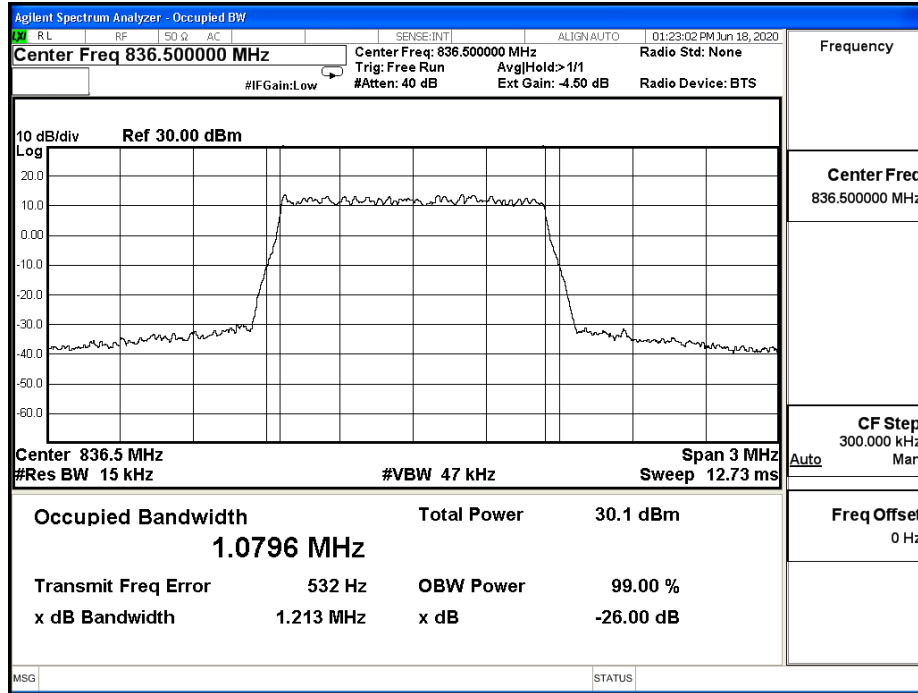
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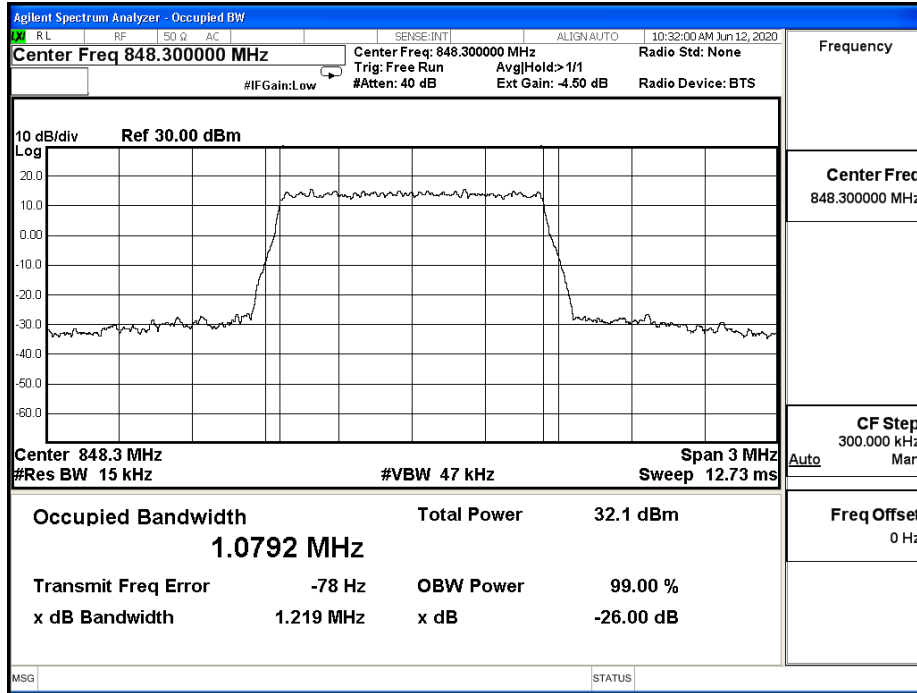
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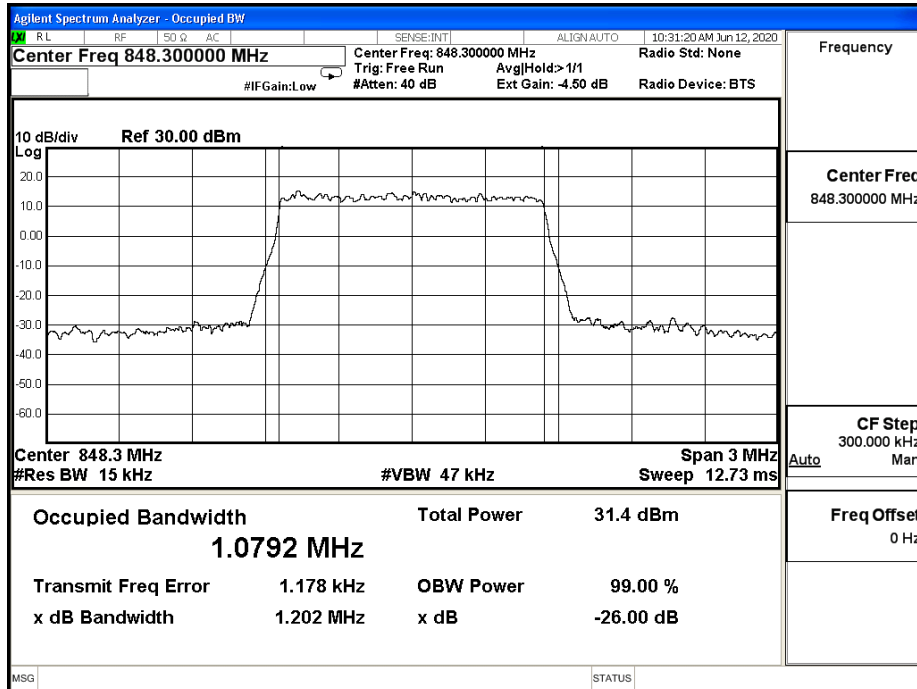
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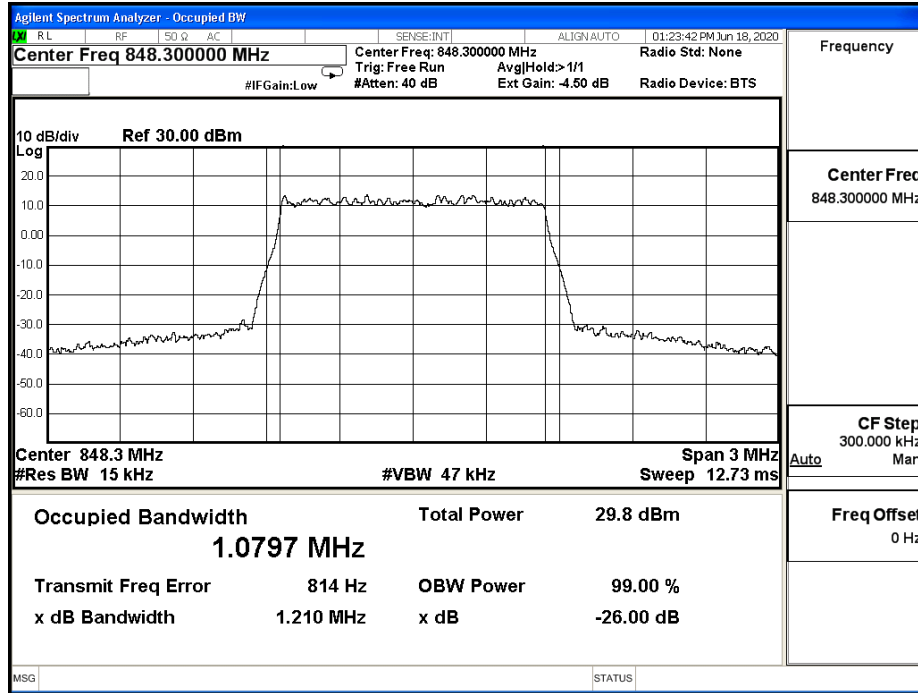
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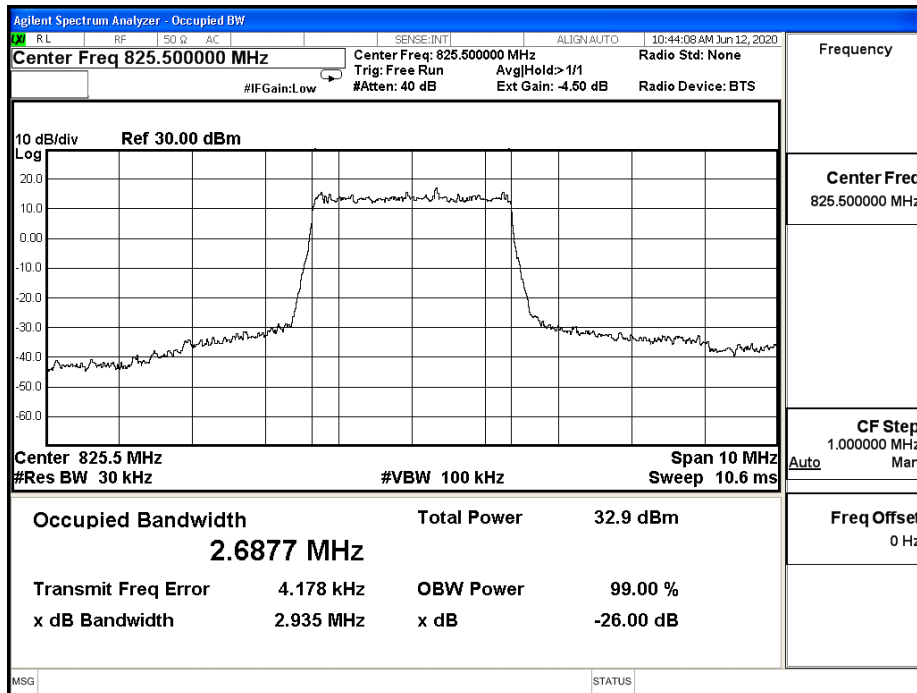
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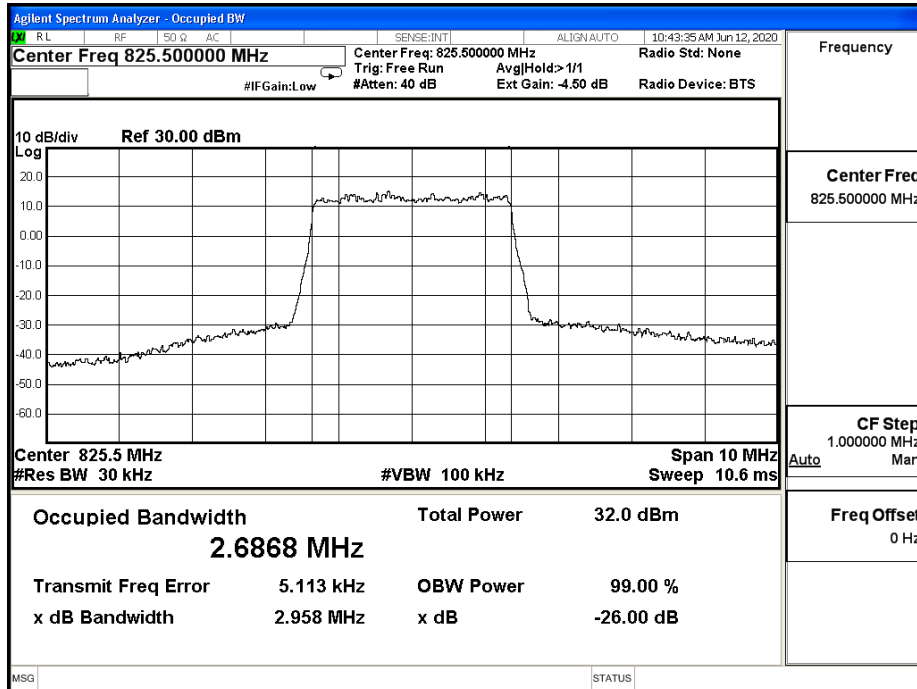
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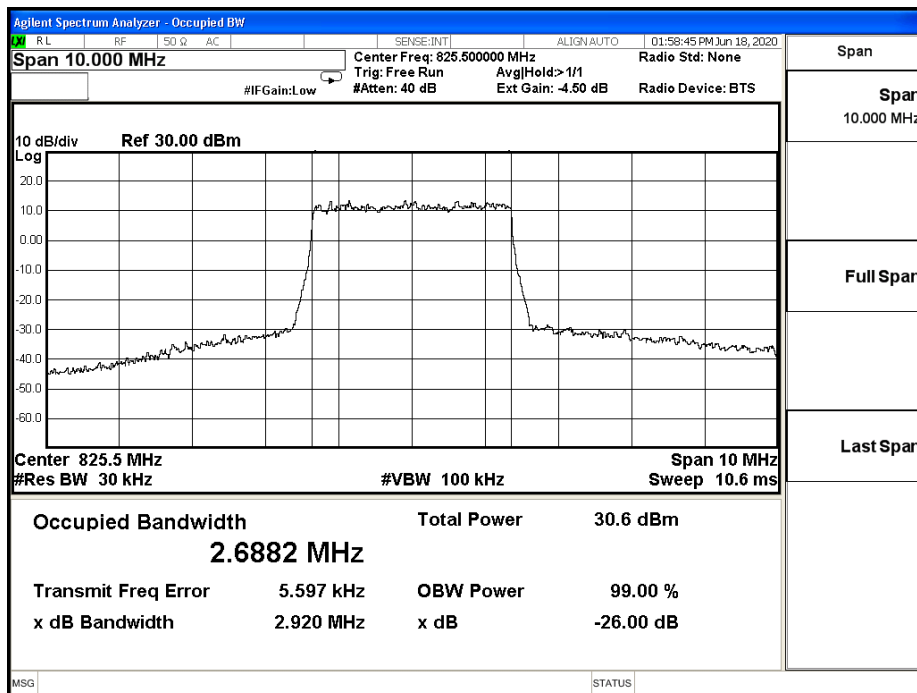
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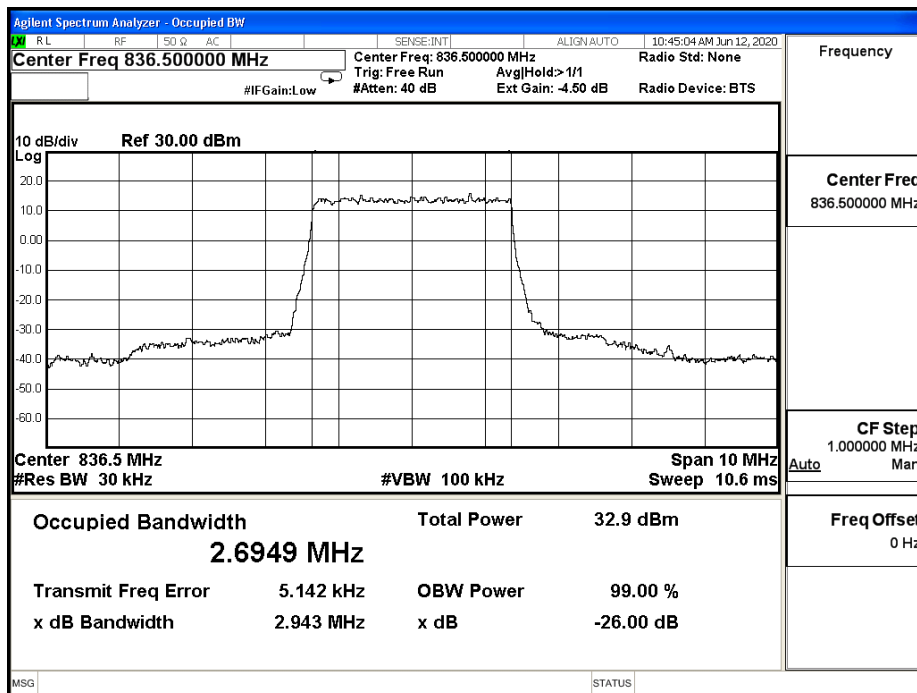
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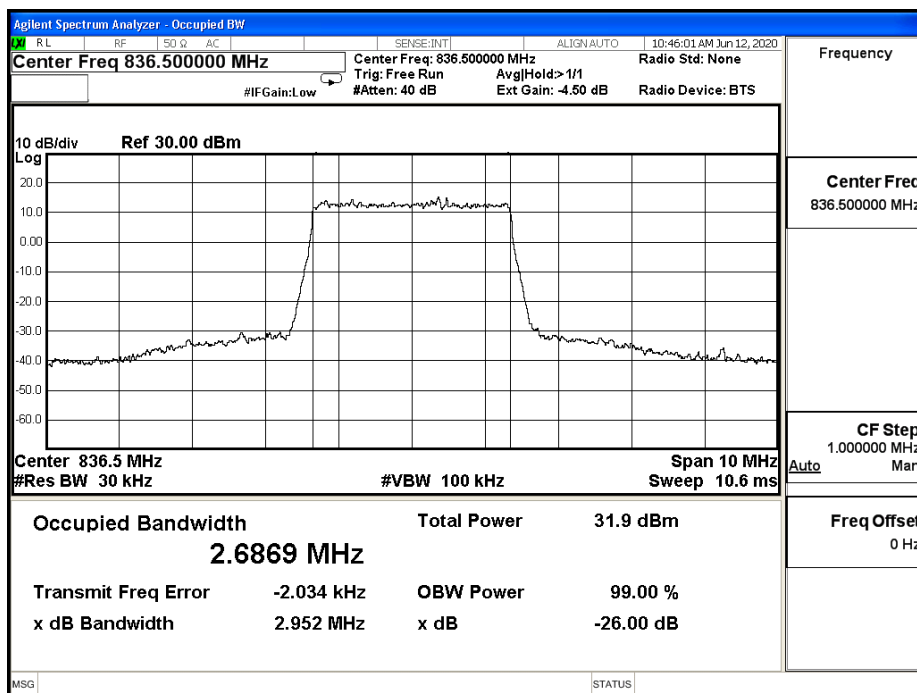
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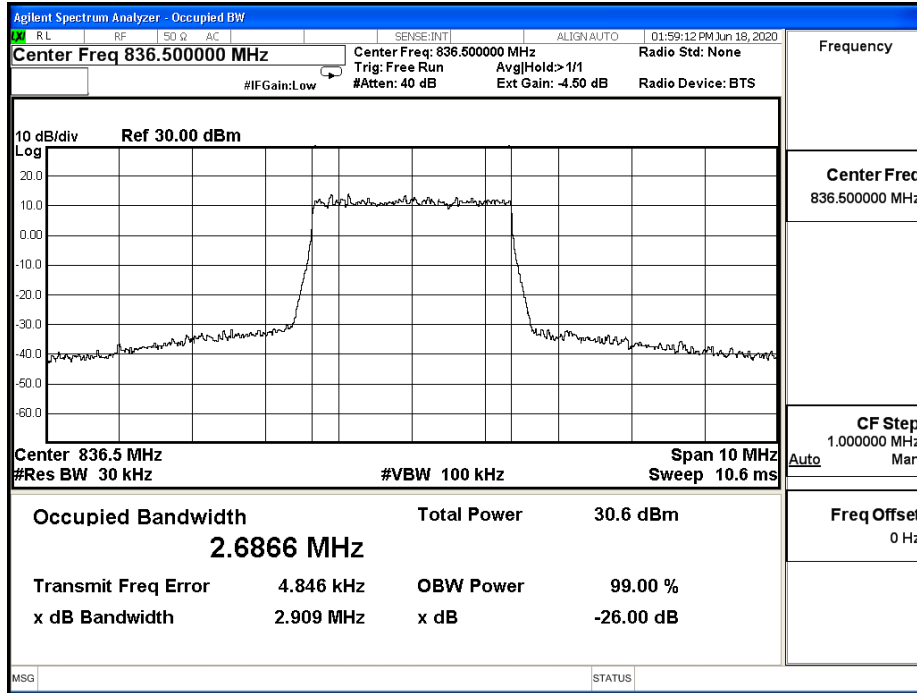
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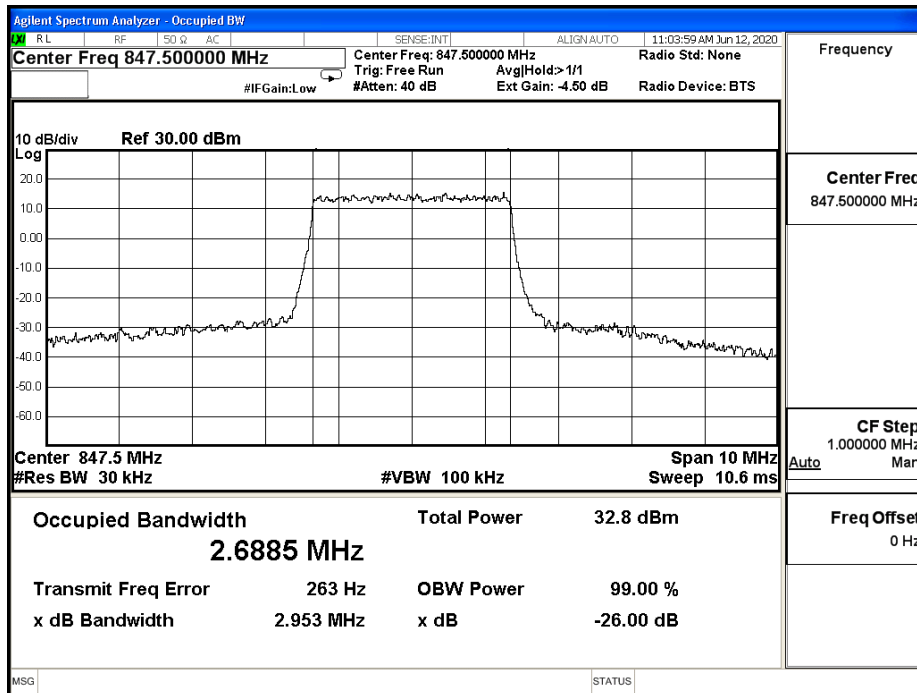
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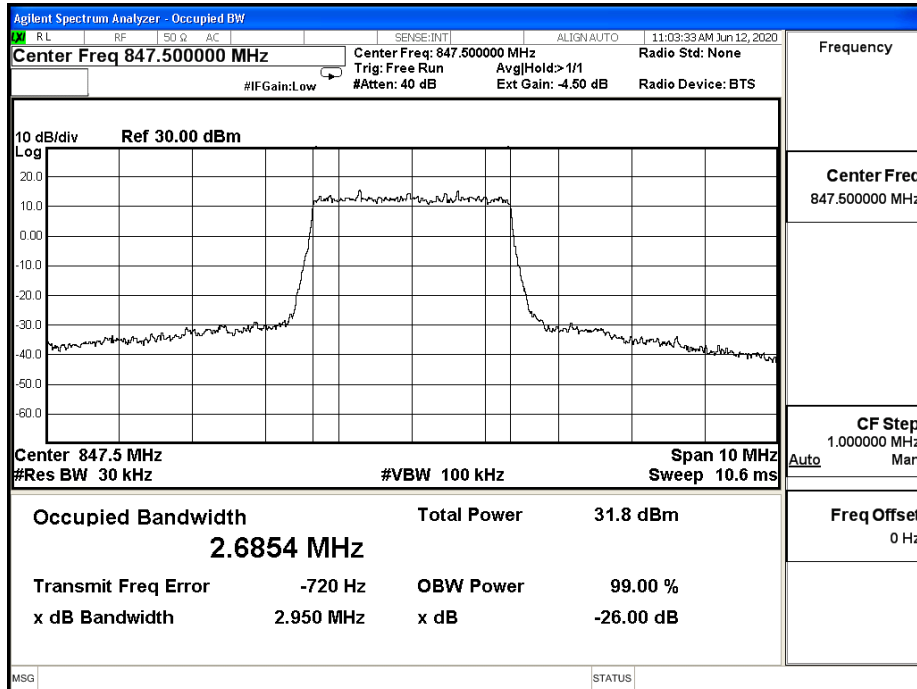
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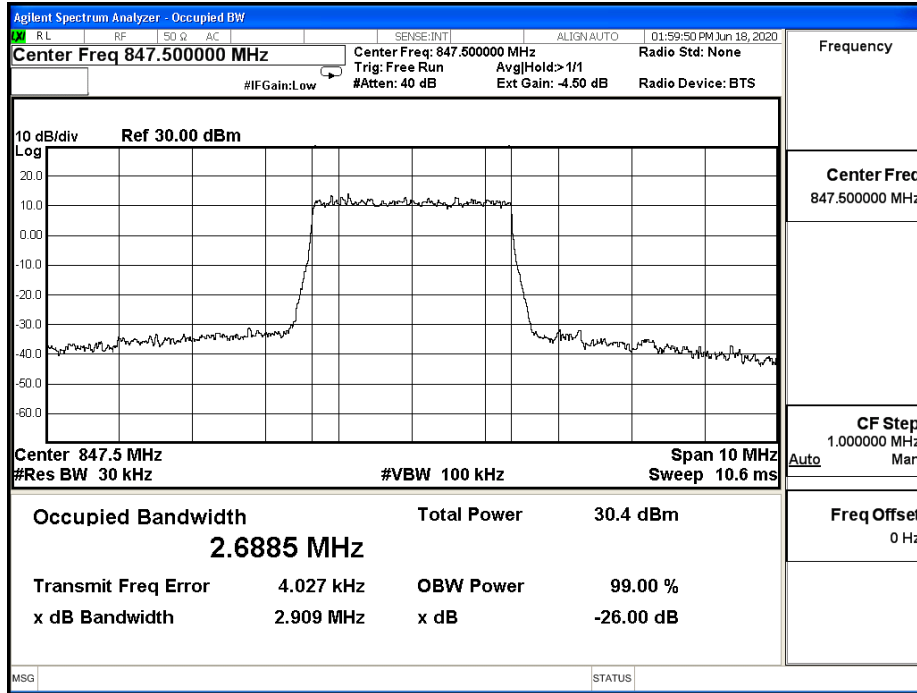
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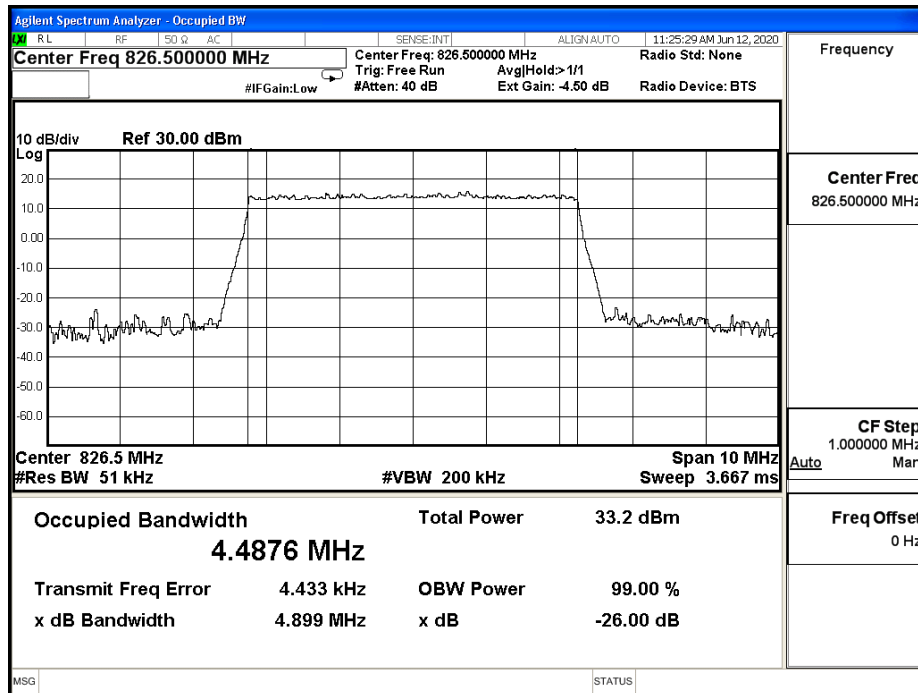
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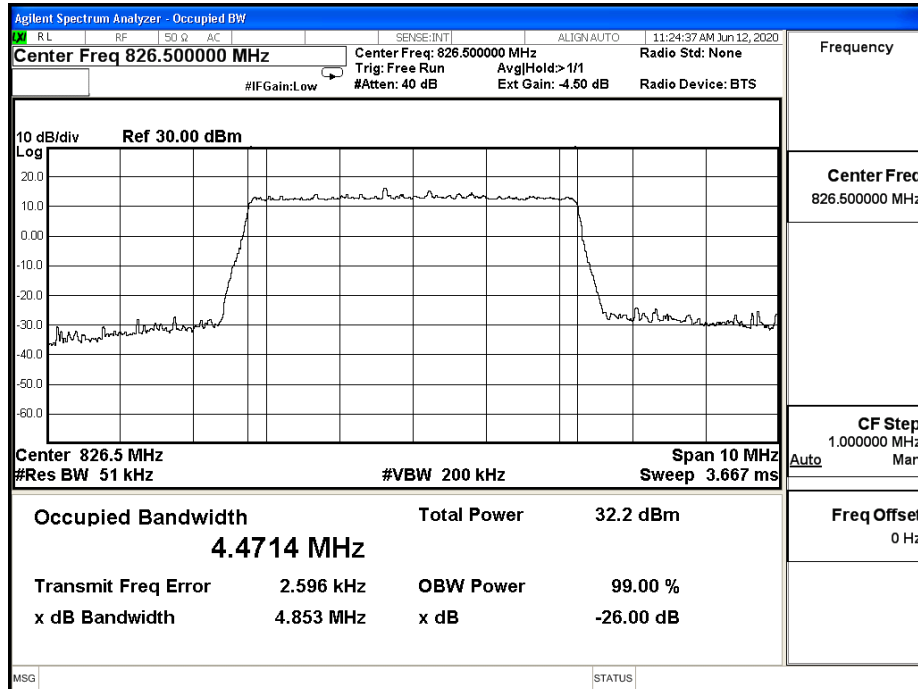
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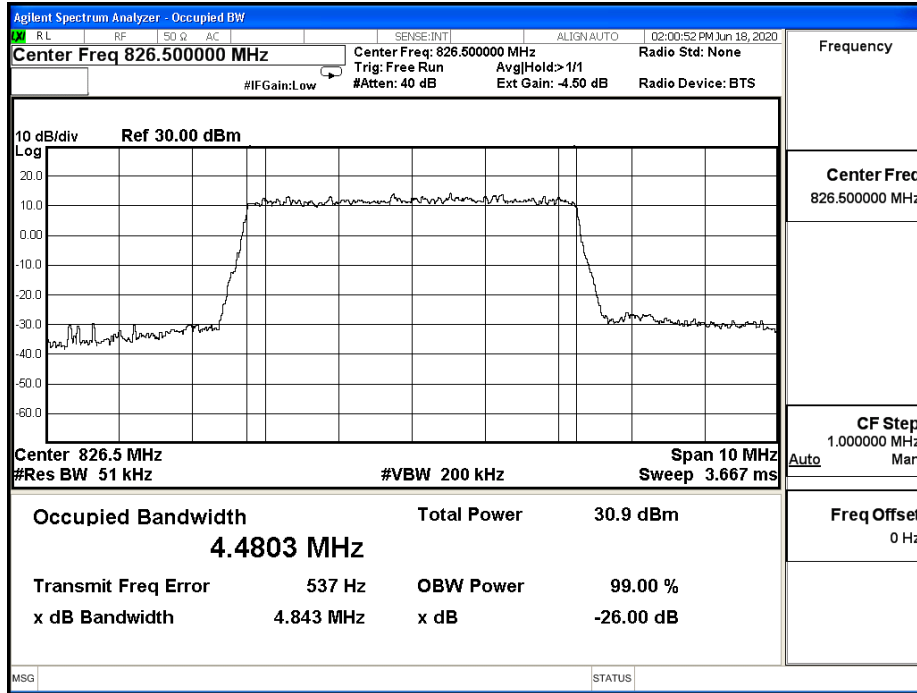
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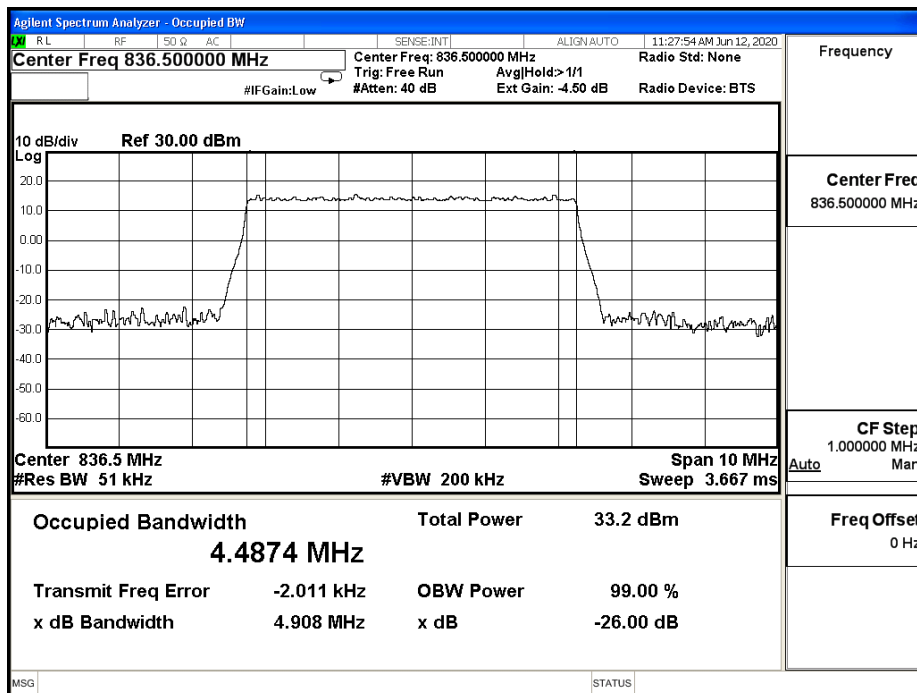
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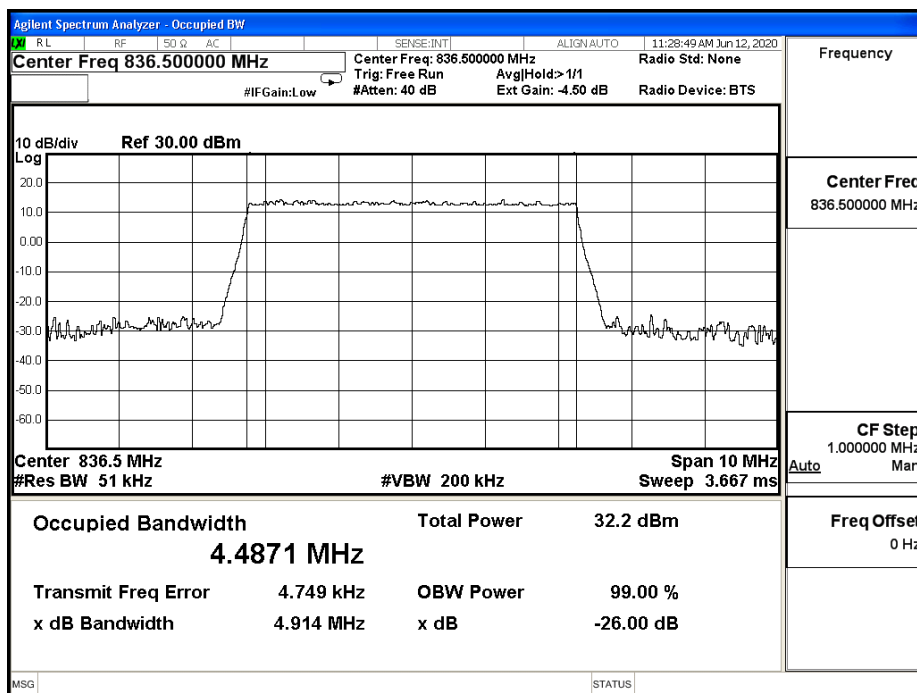
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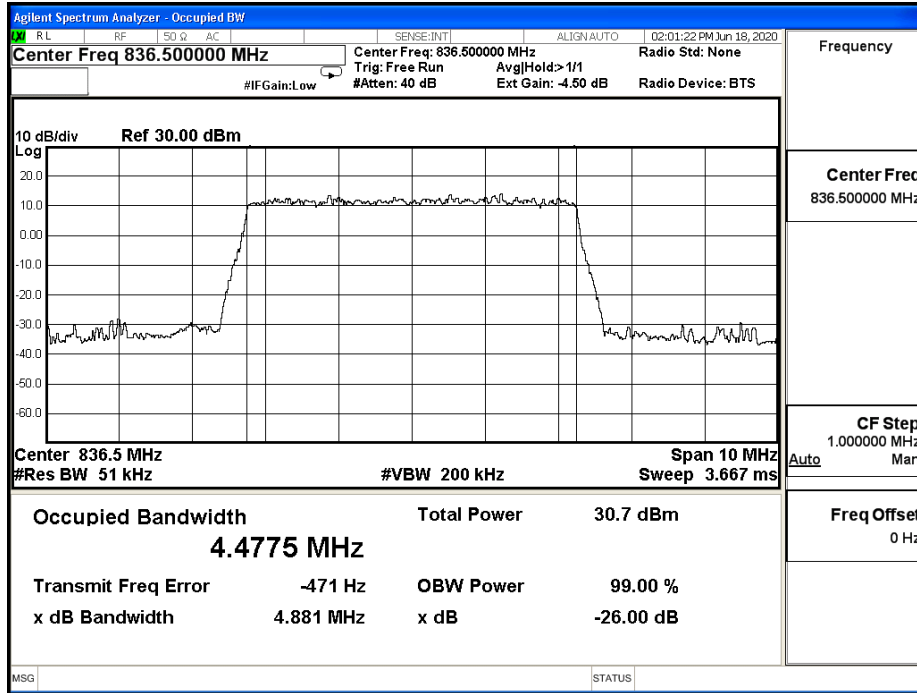
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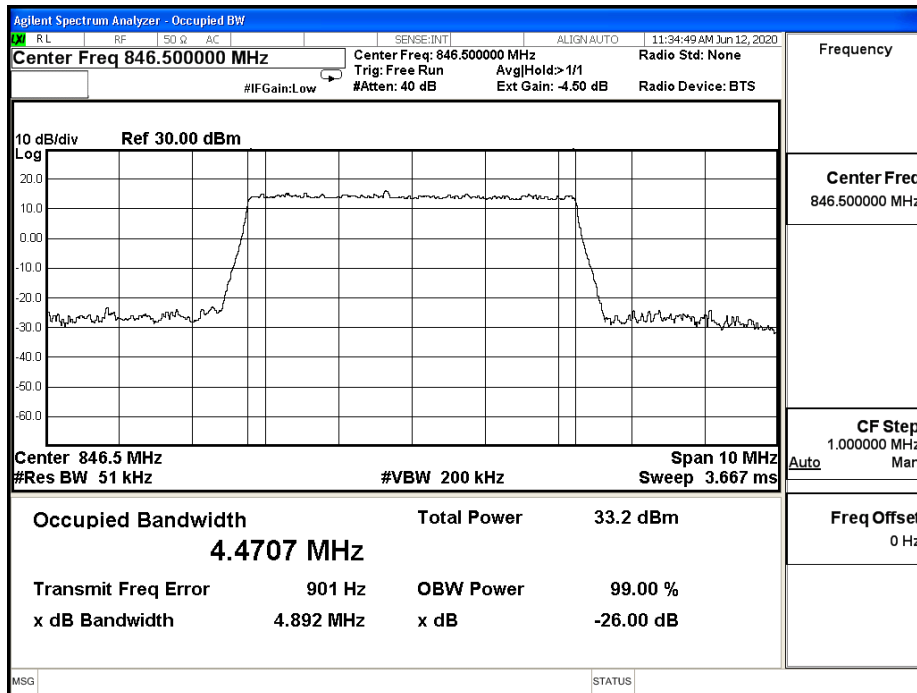
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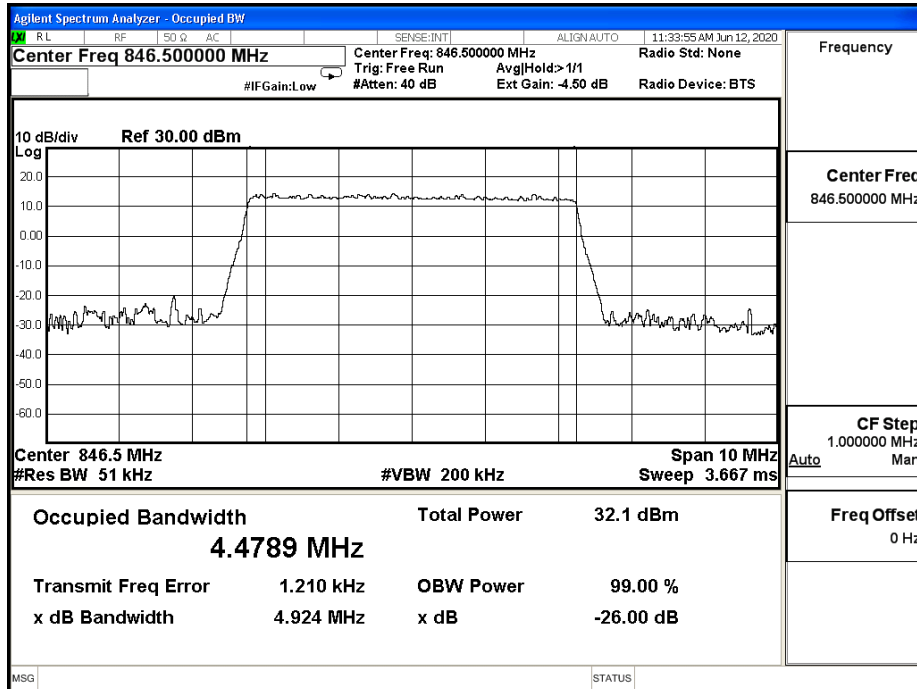
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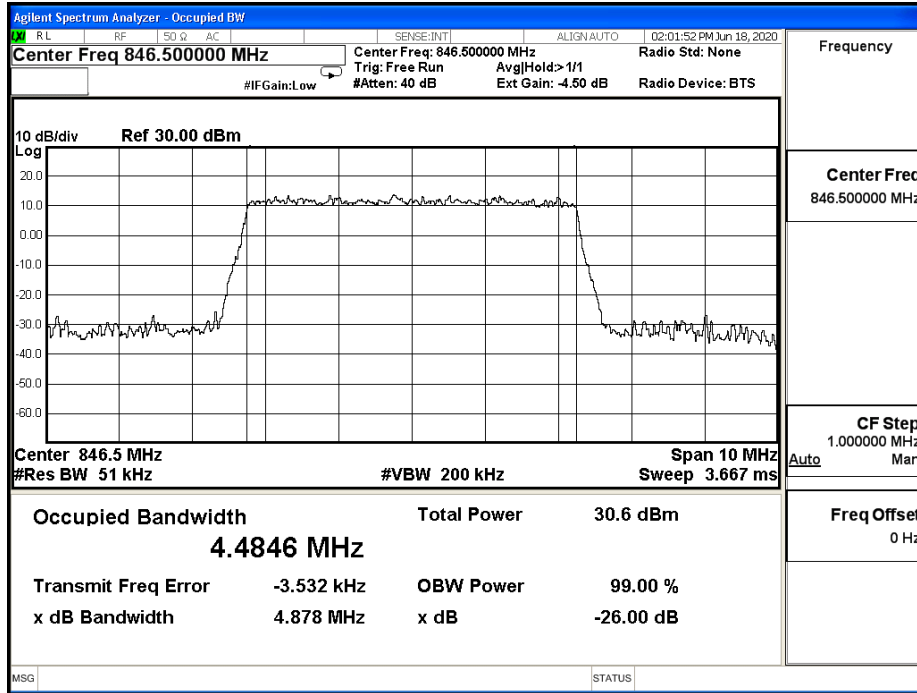
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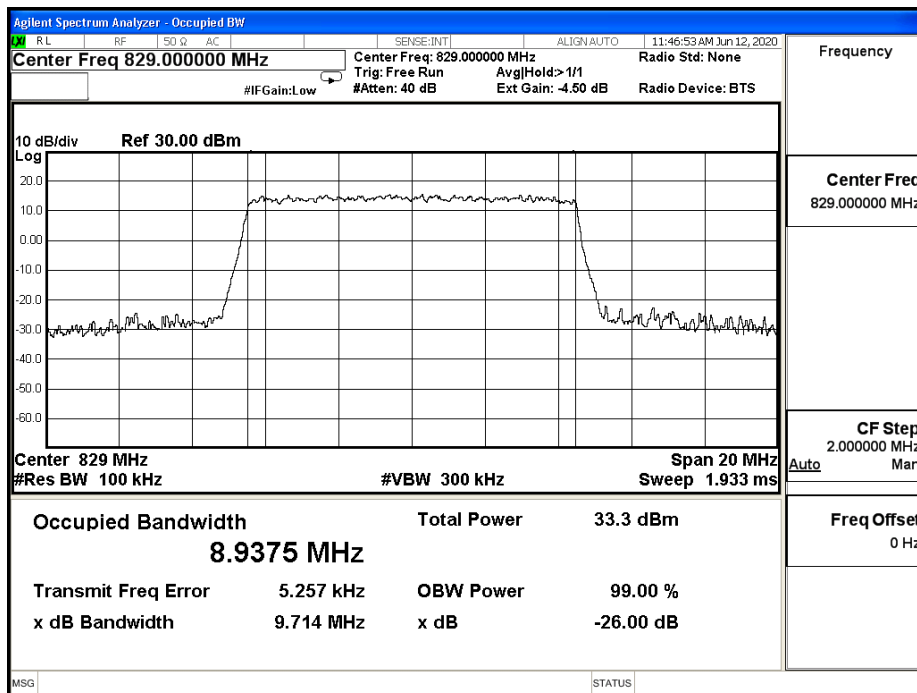
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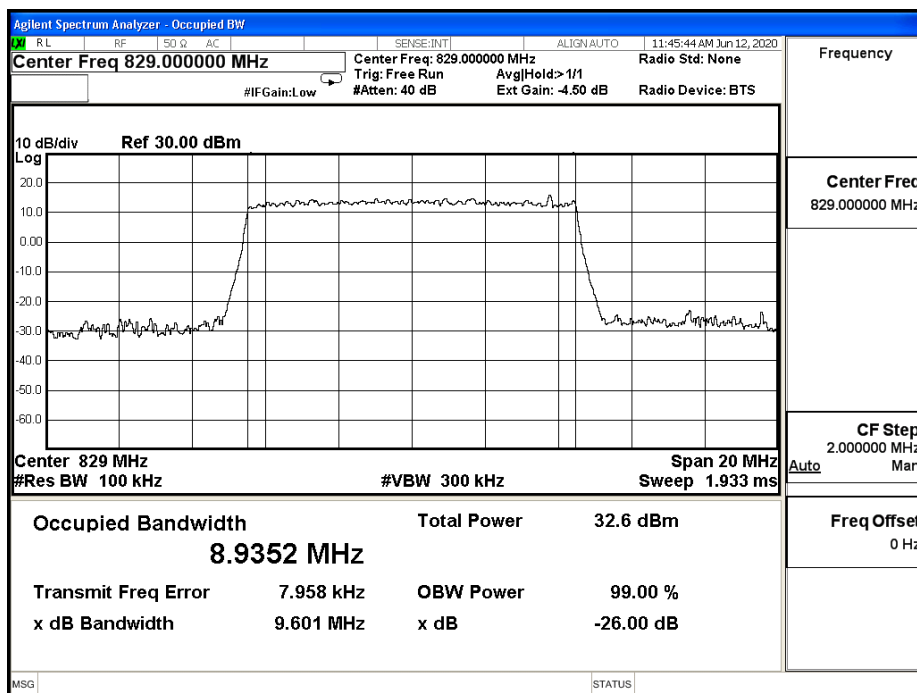
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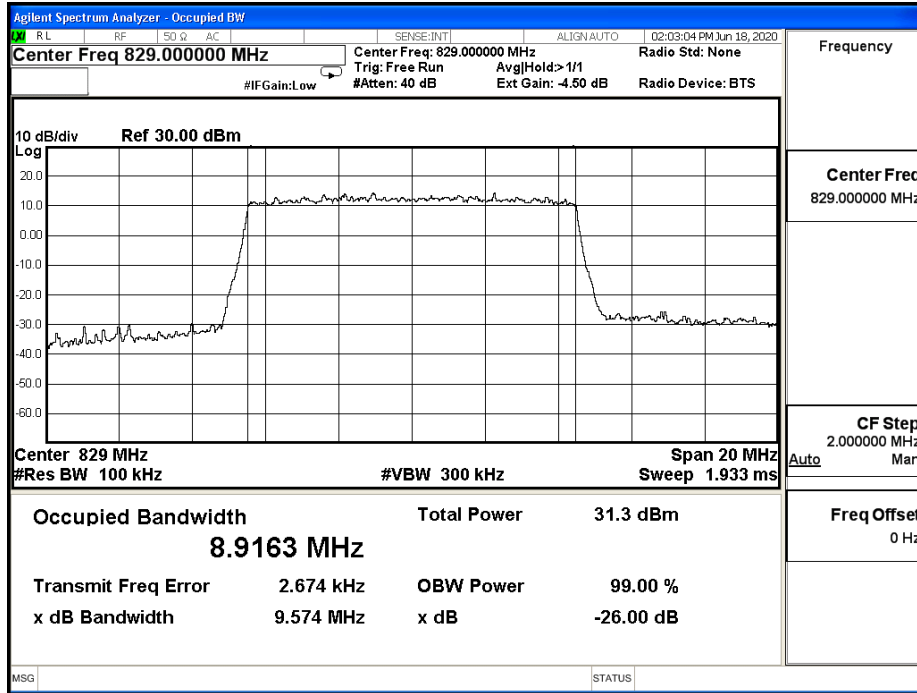
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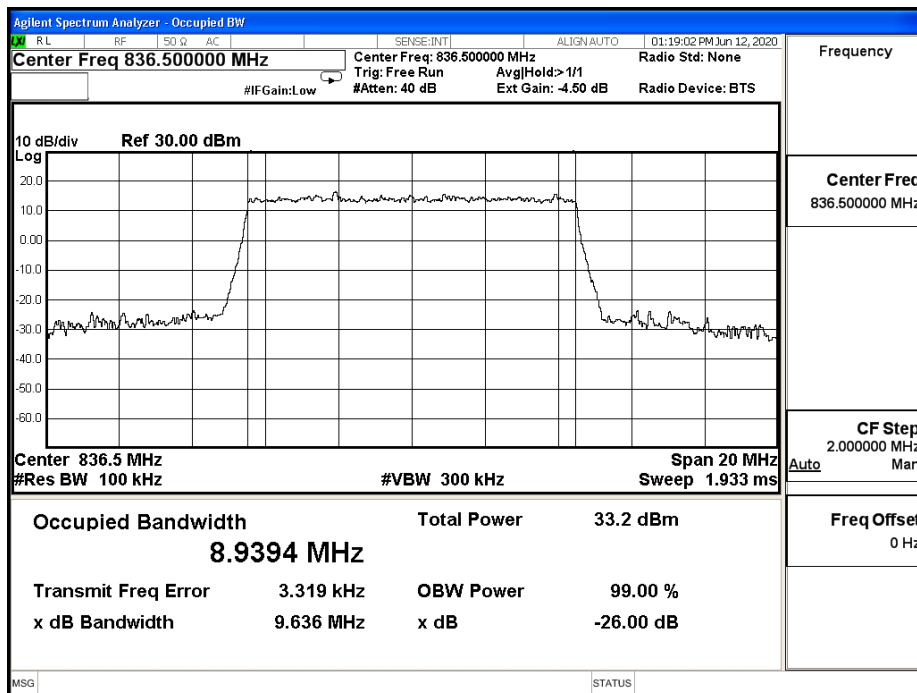
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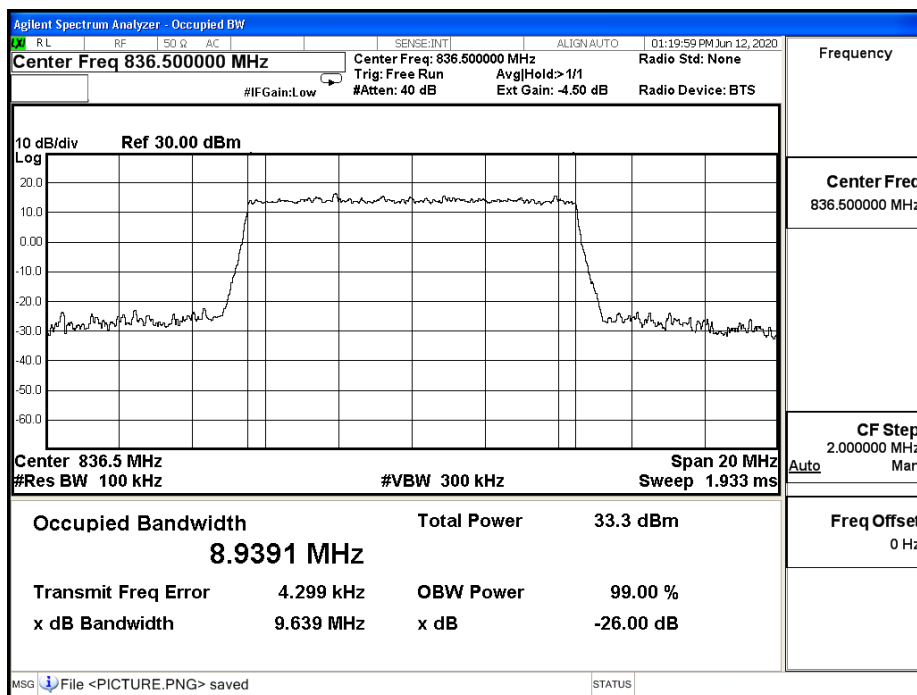
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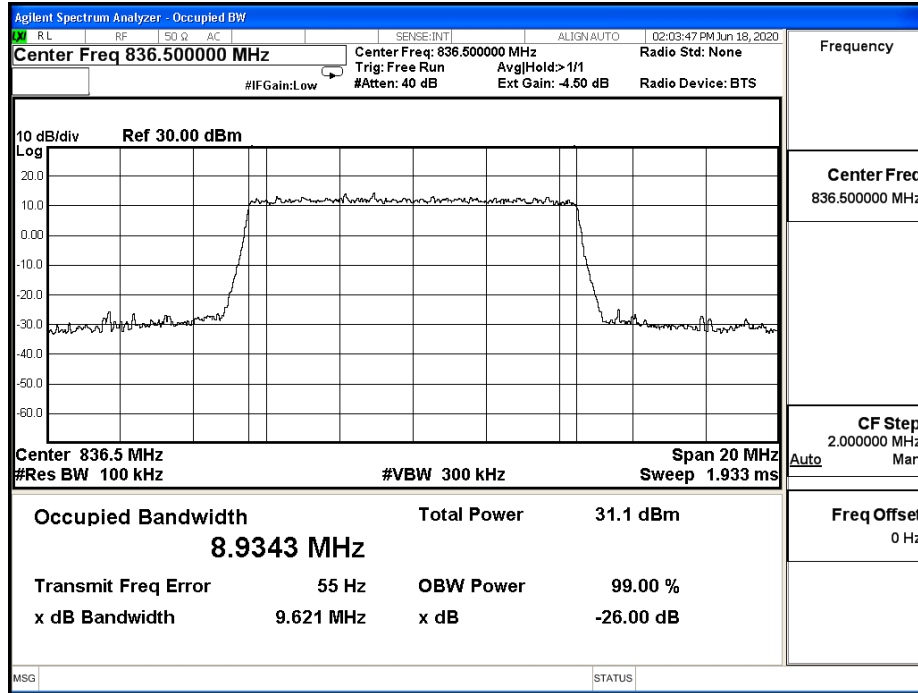
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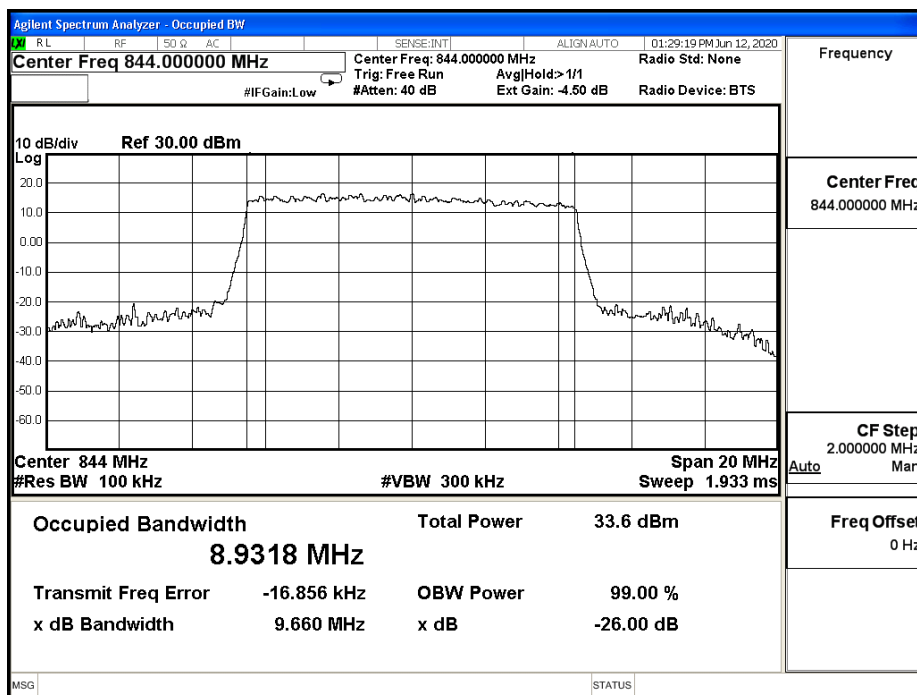
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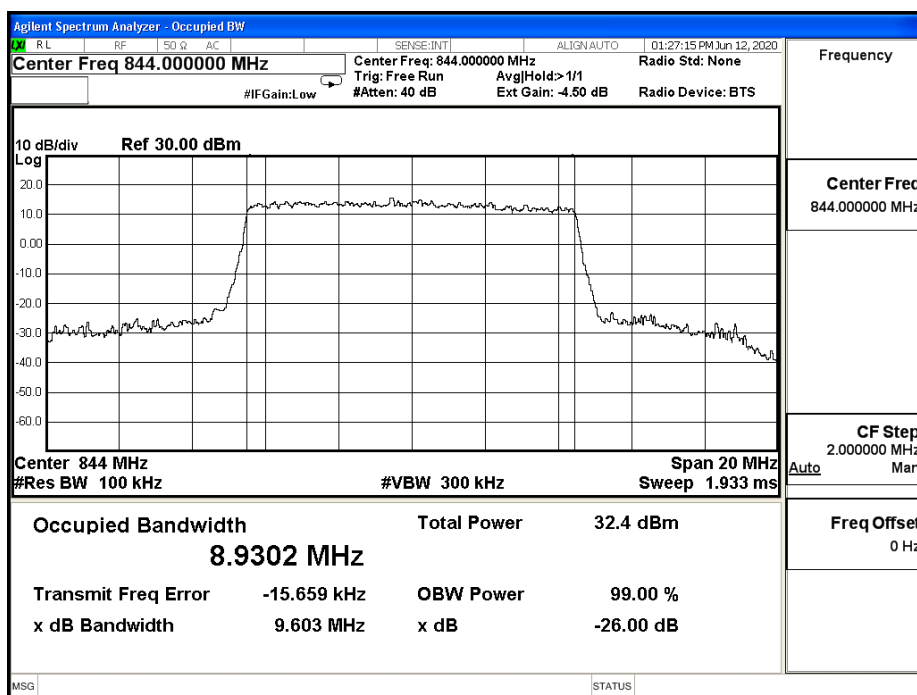
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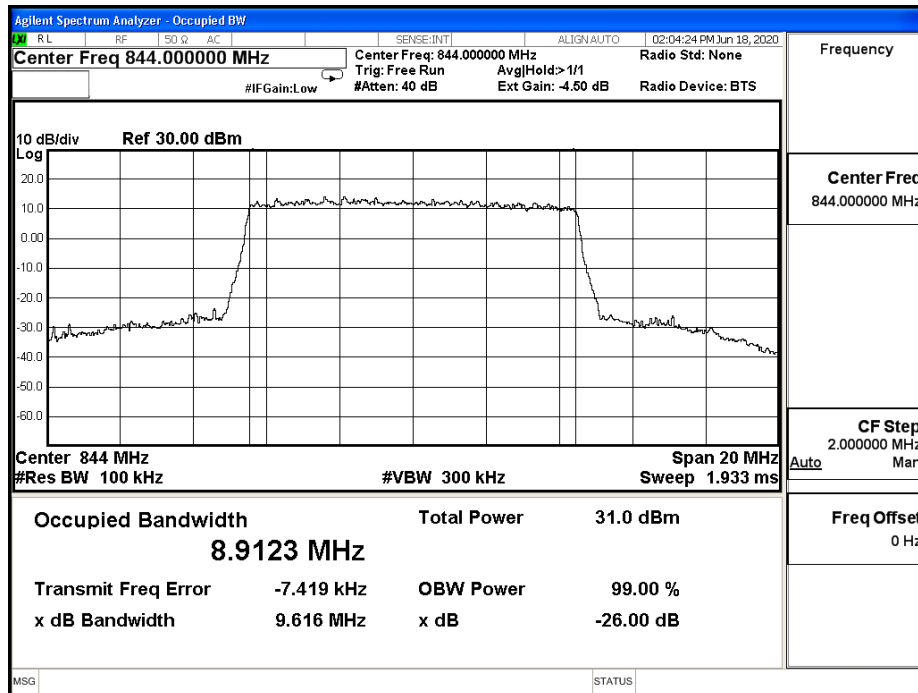
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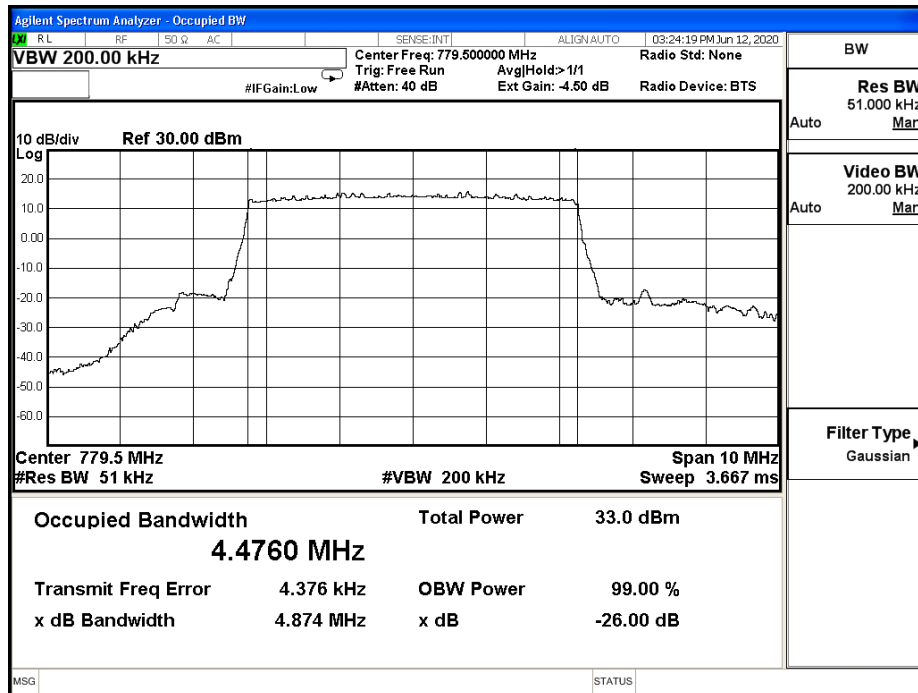
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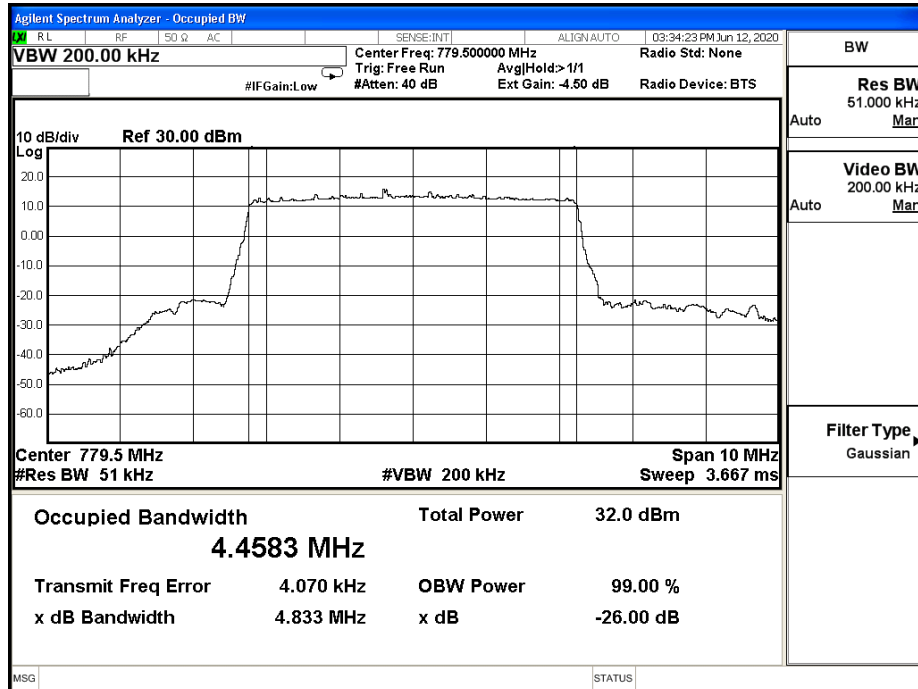
| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 3: LTE Band 13 | | |
| Date of Test | 2020/06/12~2020/06/18 | Test Site | SR12-H |
| Temperature (°C) | 25 | Humidity (%RH) | 55 |

| LTE Band13_Full RB | | | | | |
|--------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 5M | QPSK | 779.5 | 4.874 | 4.476 | N/A |
| | | 782 | 4.903 | 4.491 | N/A |
| | | 784.5 | 4.909 | 4.467 | N/A |
| | 16-QAM | 779.5 | 4.833 | 4.458 | N/A |
| | | 782 | 4.900 | 4.493 | N/A |
| | | 784.5 | 4.932 | 4.480 | N/A |
| | 64-QAM | 779.5 | 4.855 | 4.471 | N/A |
| | | 782 | 4.895 | 4.488 | N/A |
| | | 784.5 | 4.882 | 4.485 | N/A |
| 10M | QPSK | 782 | 9.722 | 8.936 | N/A |
| | 16-QAM | 782 | 9.555 | 8.934 | N/A |
| | 64-QAM | 782 | 9.600 | 8.916 | N/A |

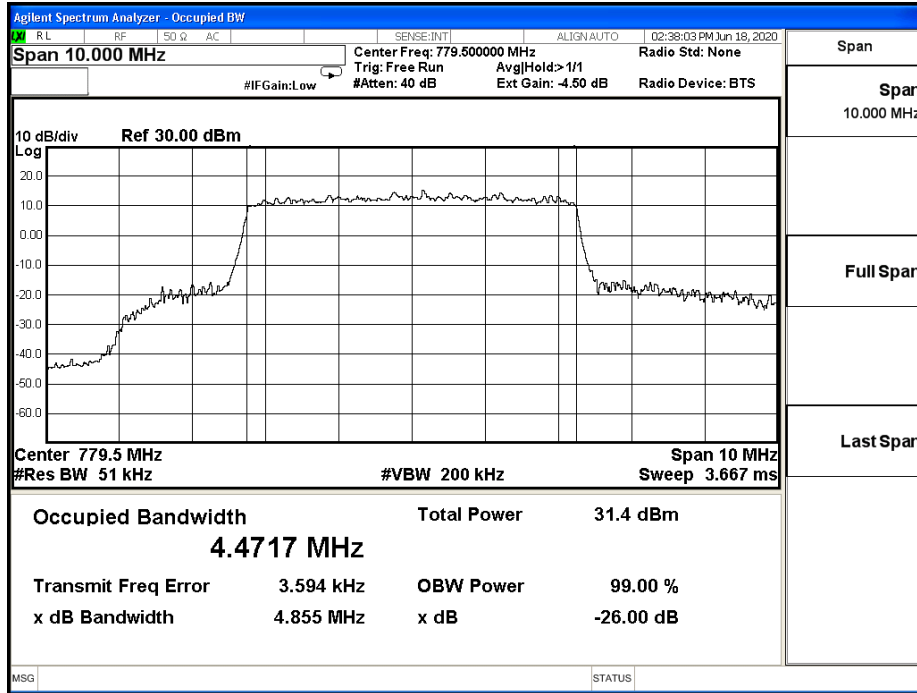
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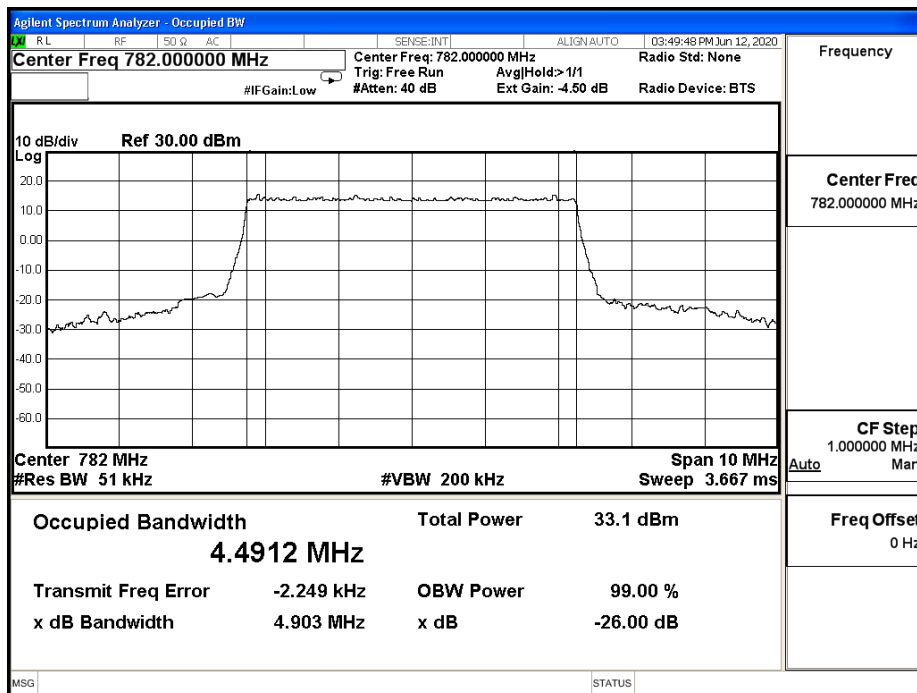
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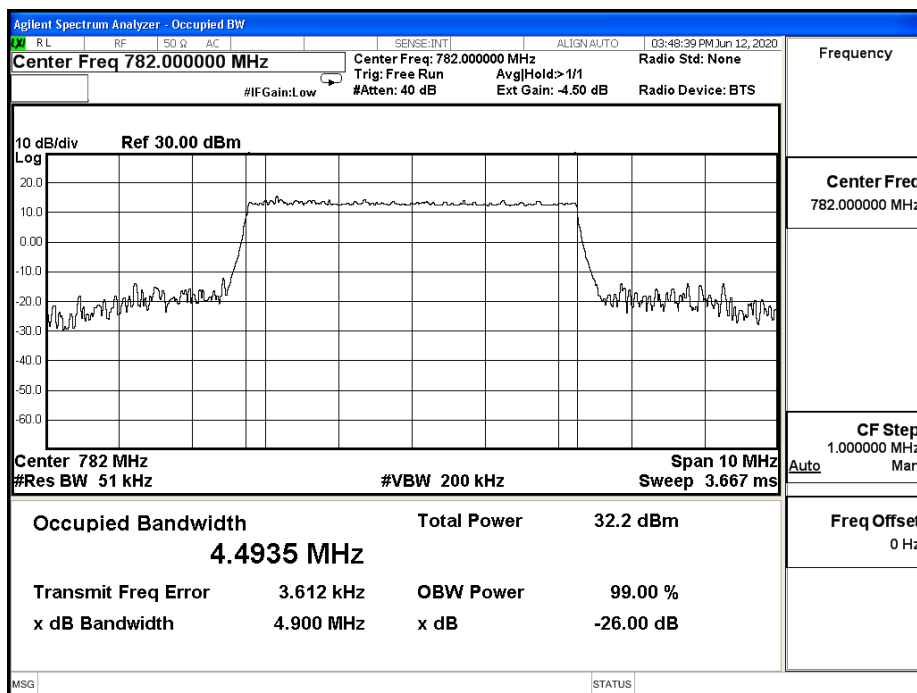
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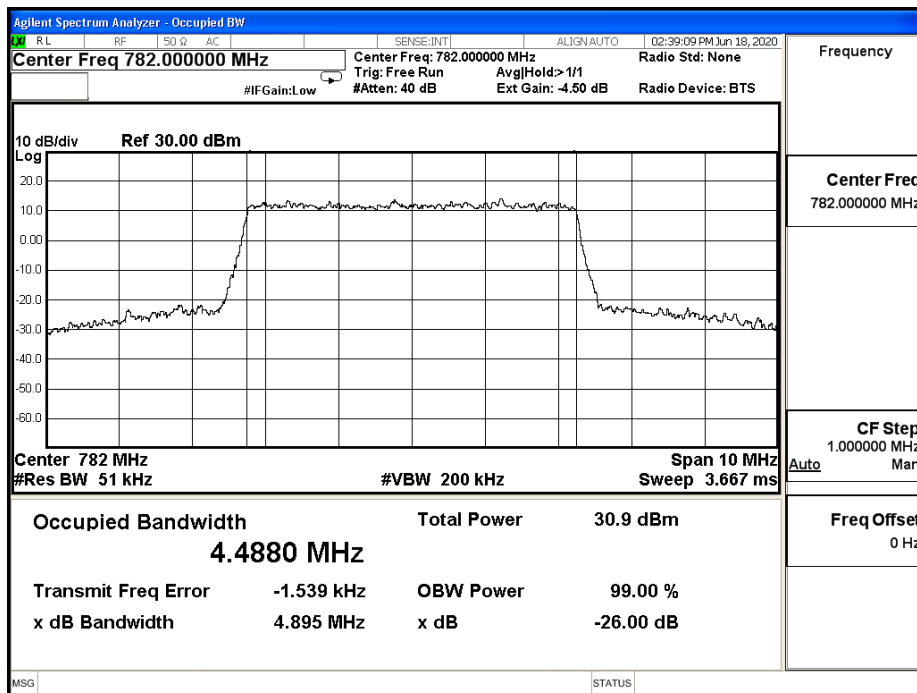
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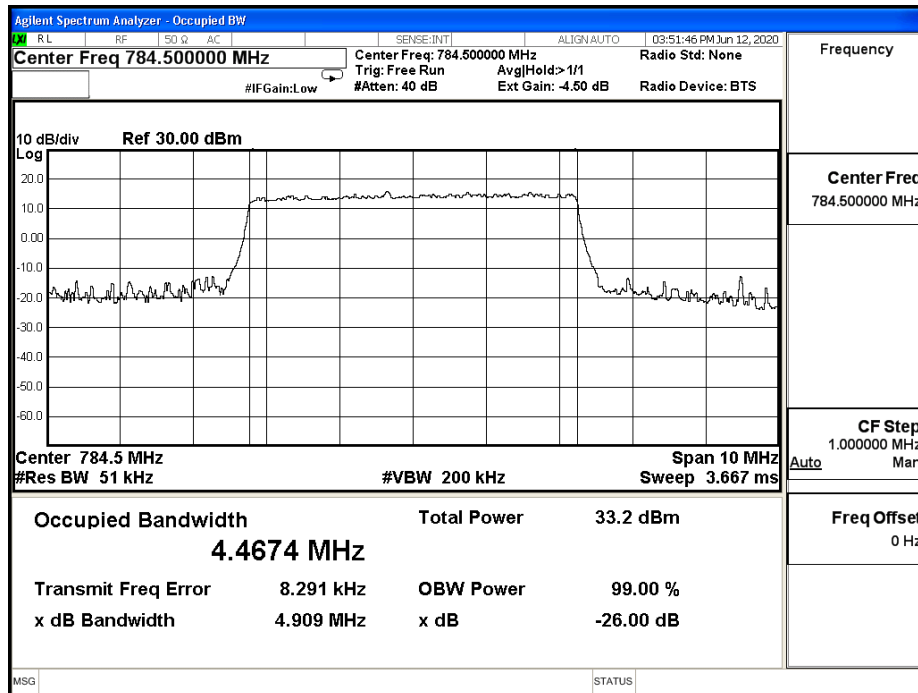
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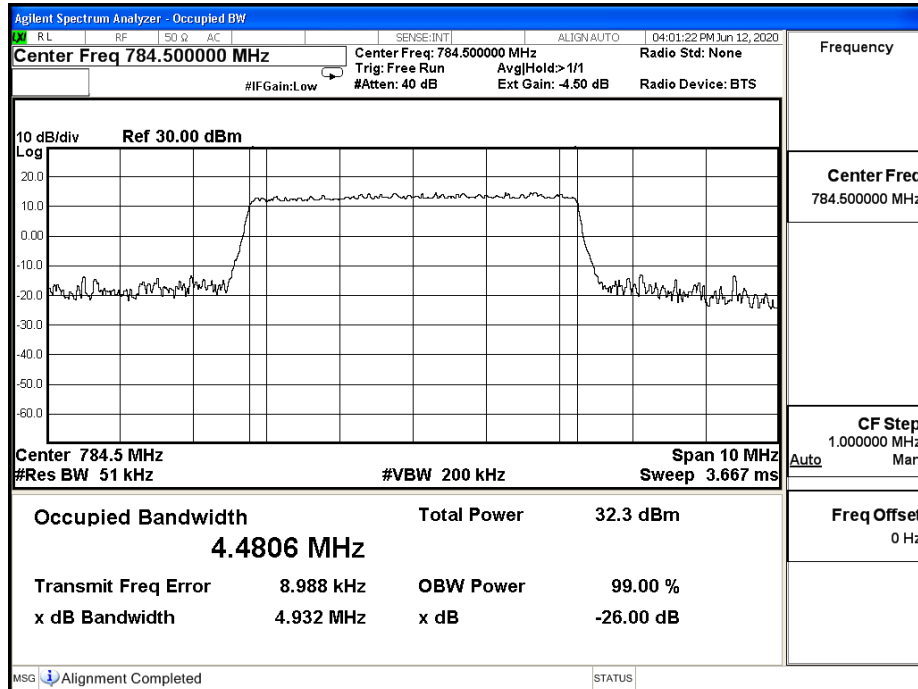
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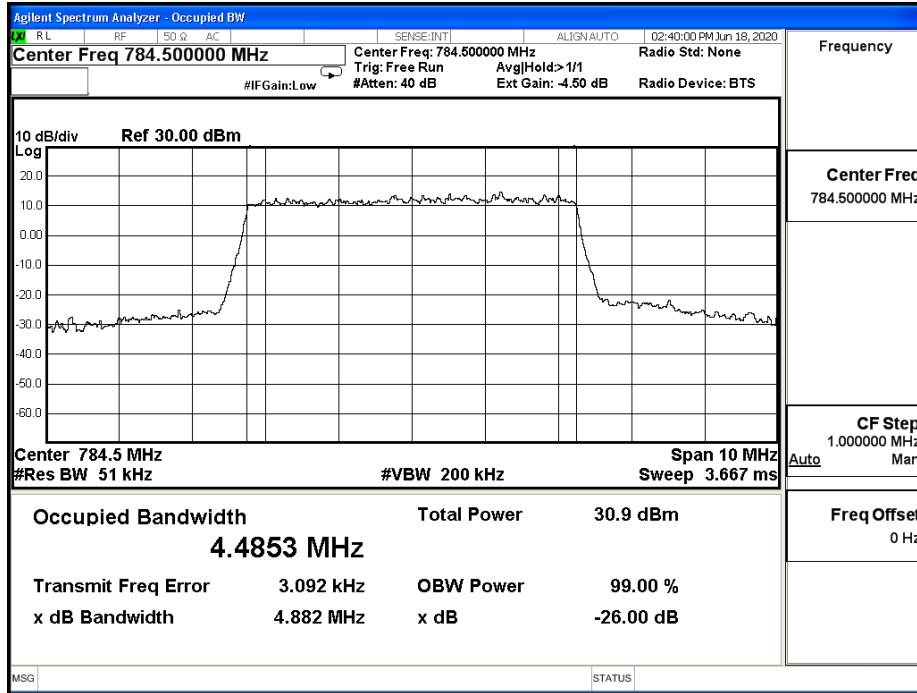
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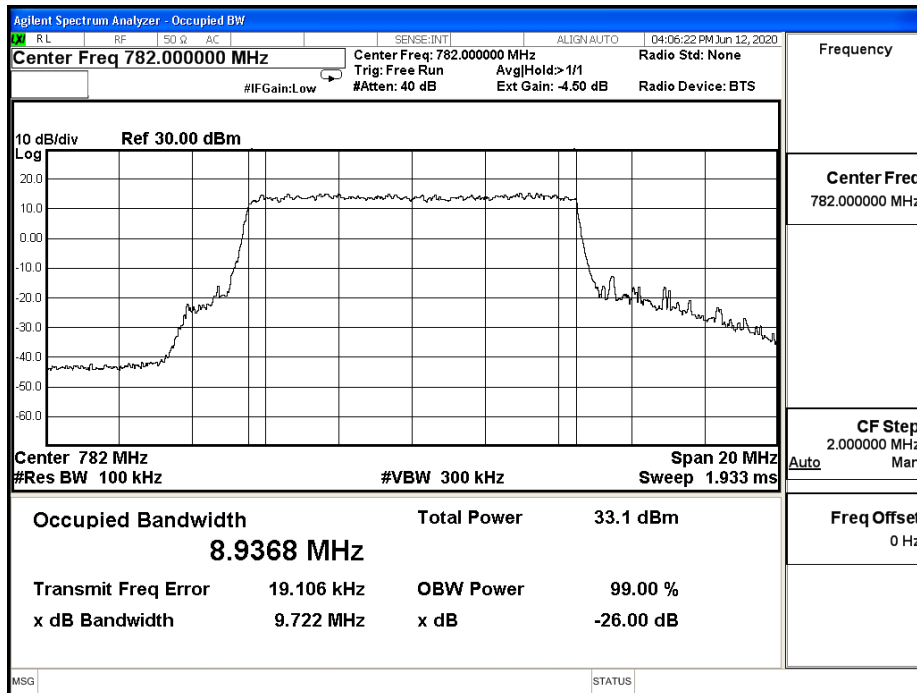
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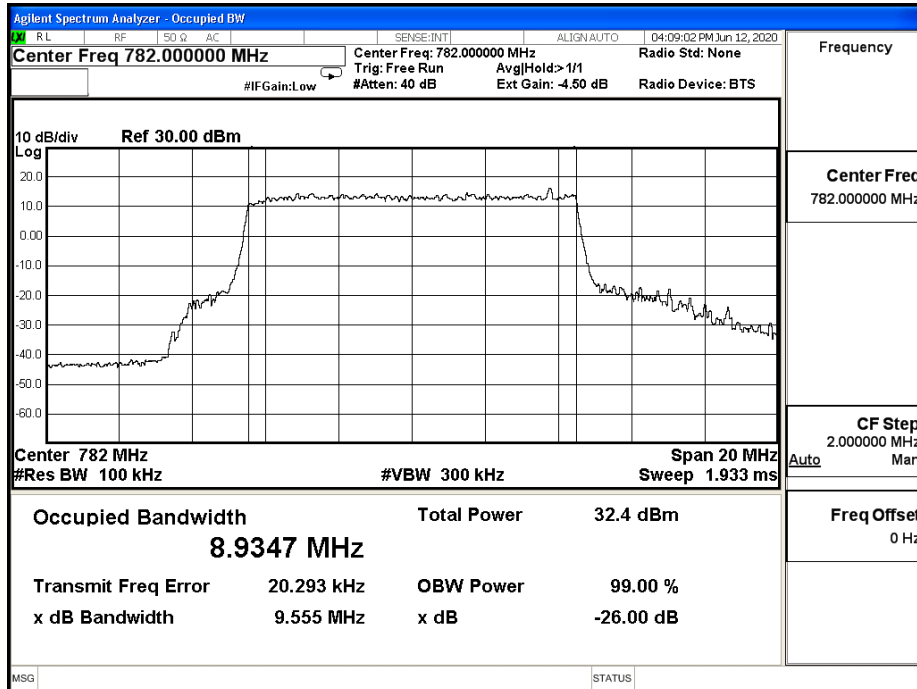
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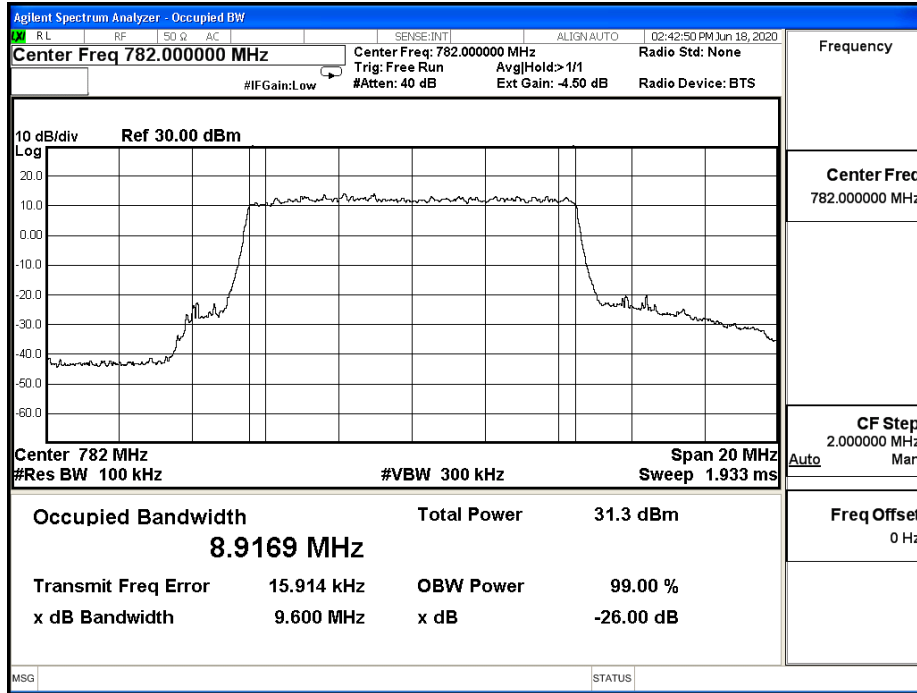
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LTE_B13_CH23230_10M_16-QAM_50RB0



LTE_B13_CH23230_10M_64-QAM_50RB0

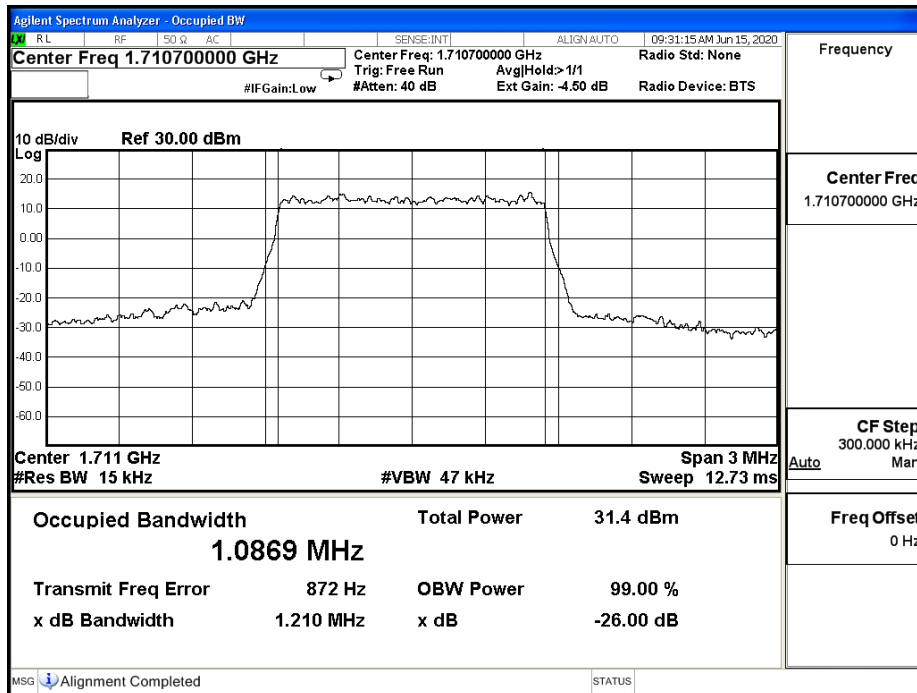


| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | Occupied Bandwidth | | |
| Test Mode | Mode 4: LTE Band 66 | | |
| Date of Test | 2020/06/15~2020/06/18 | Test Site | SR12-H |
| Temperature (°C) | 26 | Humidity (%RH) | 55 |

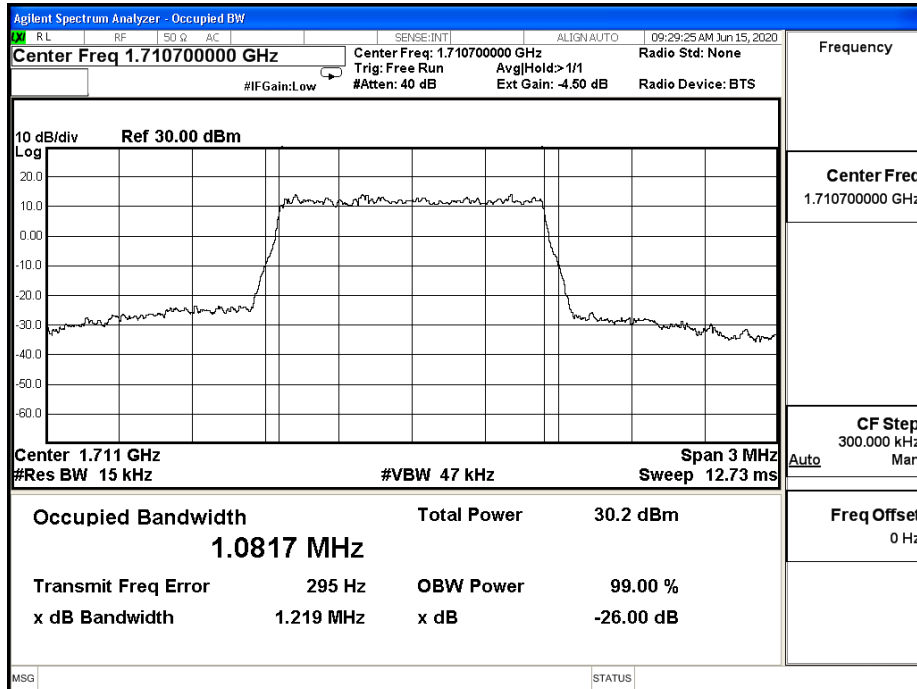
| LTE Band66_Full RB | | | | | |
|--------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 1.4M | QPSK | 1710.7 | 1.210 | 1.086 | N/A |
| | | 1745 | 1.217 | 1.079 | N/A |
| | | 1779.3 | 1.216 | 1.079 | N/A |
| | 16-QAM | 1710.7 | 1.219 | 1.081 | N/A |
| | | 1745 | 1.228 | 1.081 | N/A |
| | | 1779.3 | 1.202 | 1.079 | N/A |
| | 64-QAM | 1710.7 | 1.211 | 1.079 | N/A |
| | | 1745 | 1.211 | 1.079 | N/A |
| | | 1779.3 | 1.212 | 1.079 | N/A |
| 3M | QPSK | 1711.5 | 2.947 | 2.689 | N/A |
| | | 1745 | 2.946 | 2.694 | N/A |
| | | 1778.5 | 2.935 | 2.690 | N/A |
| | 16-QAM | 1711.5 | 2.957 | 2.688 | N/A |
| | | 1745 | 2.949 | 2.688 | N/A |
| | | 1778.5 | 2.951 | 2.686 | N/A |
| | 64-QAM | 1711.5 | 2.914 | 2.686 | N/A |
| | | 1745 | 2.913 | 2.685 | N/A |
| | | 1778.5 | 2.918 | 2.686 | N/A |
| 5M | QPSK | 1712.5 | 4.899 | 4.491 | N/A |
| | | 1745 | 4.895 | 4.487 | N/A |
| | | 1777.5 | 4.893 | 4.469 | N/A |
| | 16-QAM | 1712.5 | 4.854 | 4.475 | N/A |
| | | 1745 | 4.915 | 4.487 | N/A |
| | | 1777.5 | 4.908 | 4.478 | N/A |
| | 64-QAM | 1712.5 | 4.884 | 4.485 | N/A |
| | | 1745 | 4.899 | 4.480 | N/A |
| | | 1777.5 | 4.890 | 4.484 | N/A |

| LTE Band66_Full RB | | | | | |
|--------------------|------------|-----------------|---------------------|--------|-------------|
| Bandwidth (MHz) | Modulation | Frequency (MHz) | Measure Level (MHz) | | Limit (MHz) |
| | | | 26dB BW | 99% BW | |
| 10M | QPSK | 1715 | 9.710 | 8.950 | N/A |
| | | 1745 | 9.733 | 8.953 | N/A |
| | | 1775 | 9.690 | 8.956 | N/A |
| | 16-QAM | 1715 | 9.575 | 8.945 | N/A |
| | | 1745 | 9.578 | 8.946 | N/A |
| | | 1775 | 9.714 | 8.956 | N/A |
| | 64-QAM | 1715 | 9.611 | 8.933 | N/A |
| | | 1745 | 9.607 | 8.929 | N/A |
| | | 1775 | 9.660 | 8.946 | N/A |
| 15M | QPSK | 1717.5 | 14.550 | 13.447 | N/A |
| | | 1745 | 14.510 | 13.432 | N/A |
| | | 1772.5 | 14.530 | 13.469 | N/A |
| | 16-QAM | 1717.5 | 14.450 | 13.424 | N/A |
| | | 1745 | 14.550 | 13.435 | N/A |
| | | 1772.5 | 14.450 | 13.450 | N/A |
| | 64-QAM | 1717.5 | 14.510 | 13.411 | N/A |
| | | 1745 | 14.480 | 13.419 | N/A |
| | | 1772.5 | 14.490 | 13.442 | N/A |
| 20M | QPSK | 1720 | 19.000 | 17.830 | N/A |
| | | 1745 | 19.130 | 17.895 | N/A |
| | | 1770 | 19.490 | 17.935 | N/A |
| | 16-QAM | 1720 | 19.180 | 17.888 | N/A |
| | | 1745 | 19.550 | 17.925 | N/A |
| | | 1770 | 19.390 | 17.906 | N/A |
| | 64-QAM | 1720 | 19.340 | 17.850 | N/A |
| | | 1745 | 19.170 | 17.895 | N/A |
| | | 1770 | 19.180 | 17.883 | N/A |

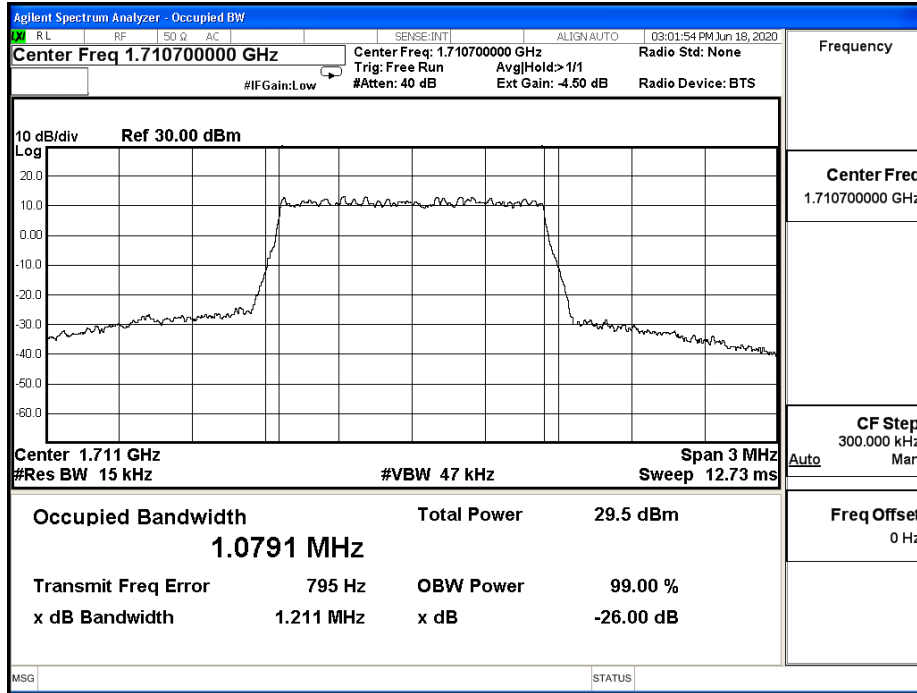
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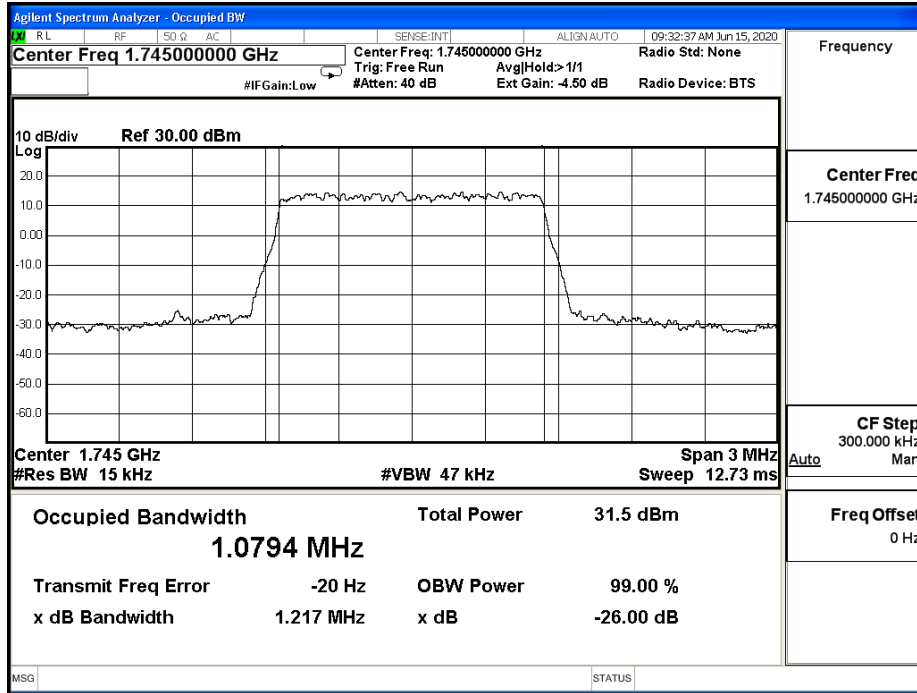
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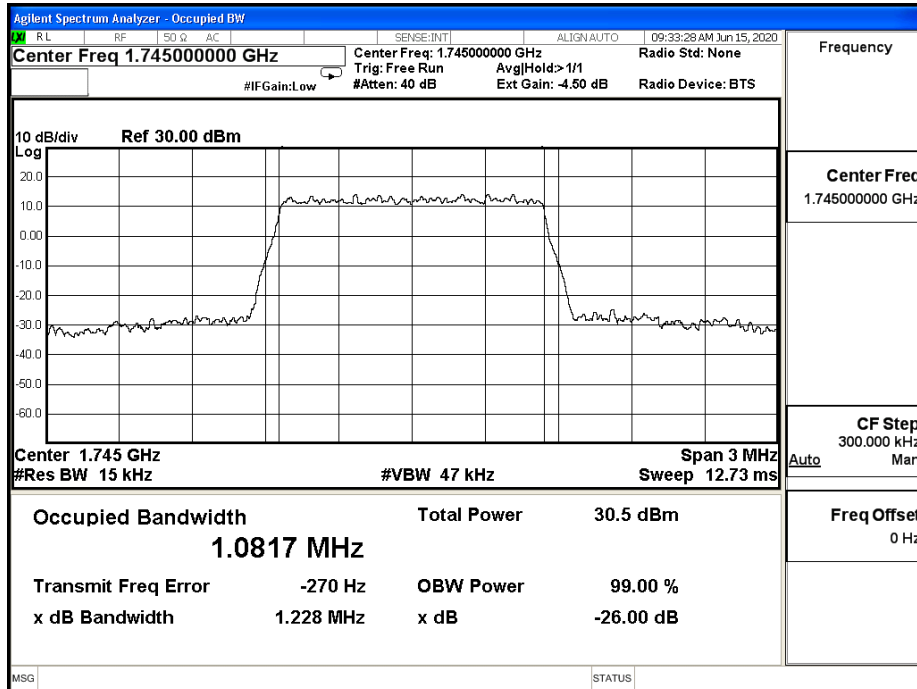
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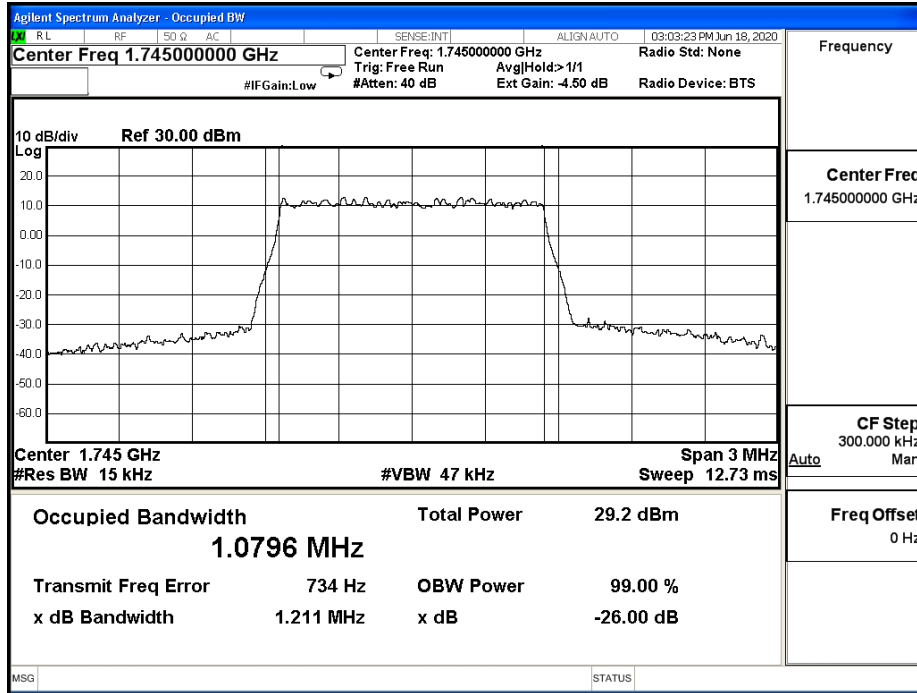
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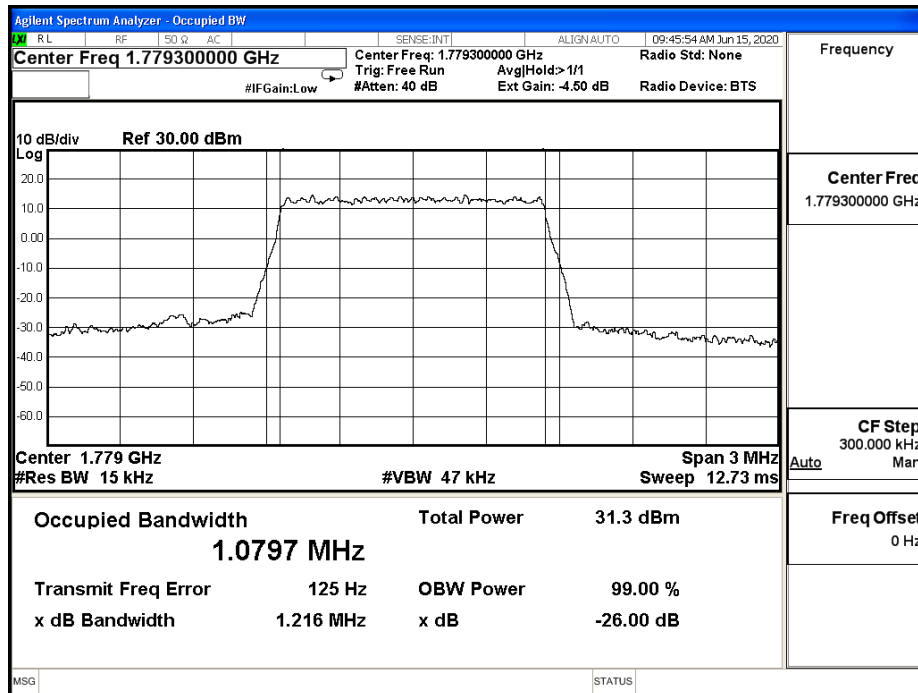
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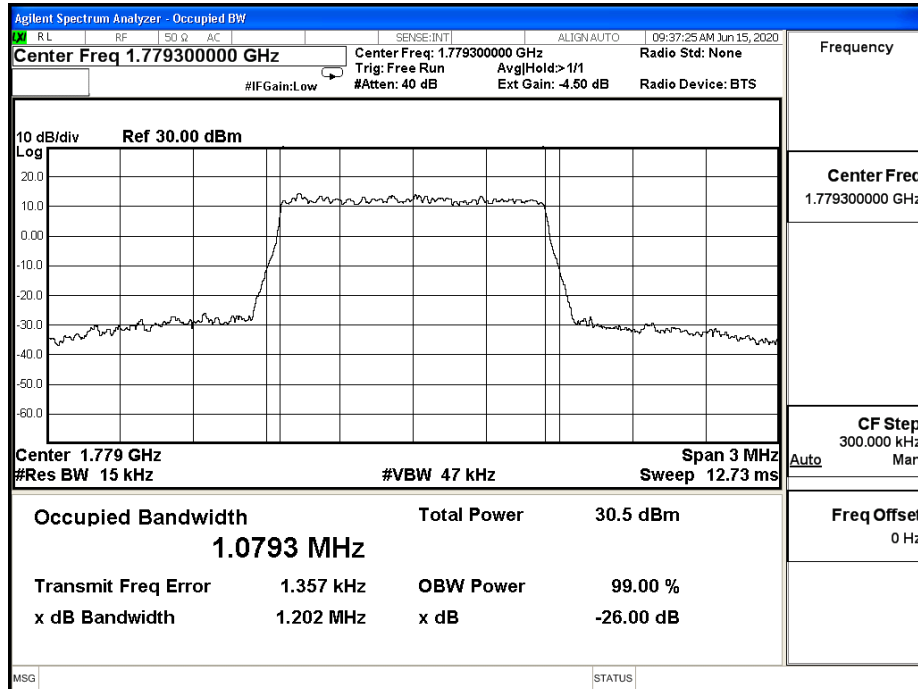
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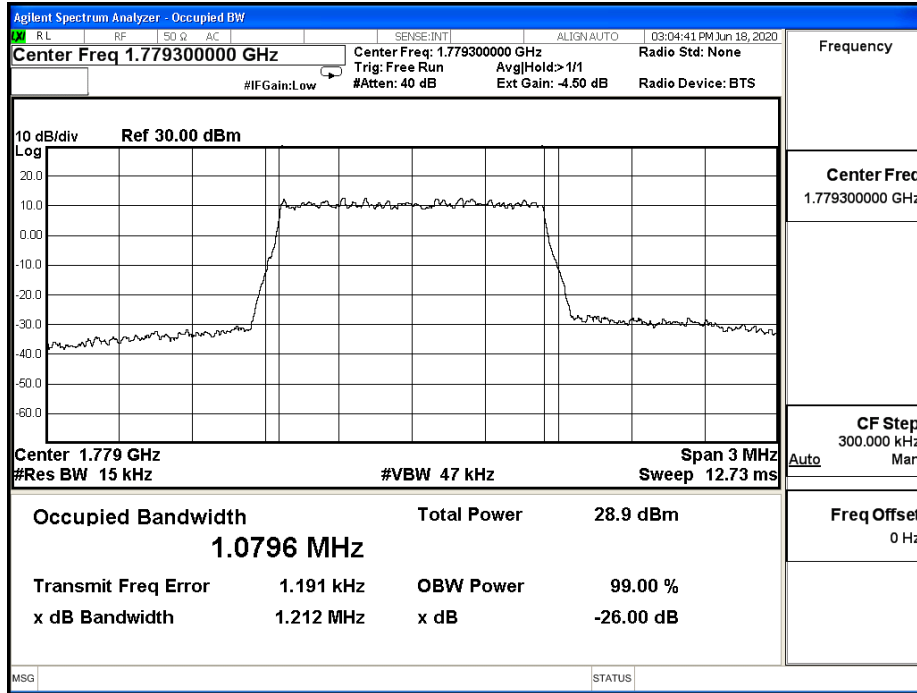
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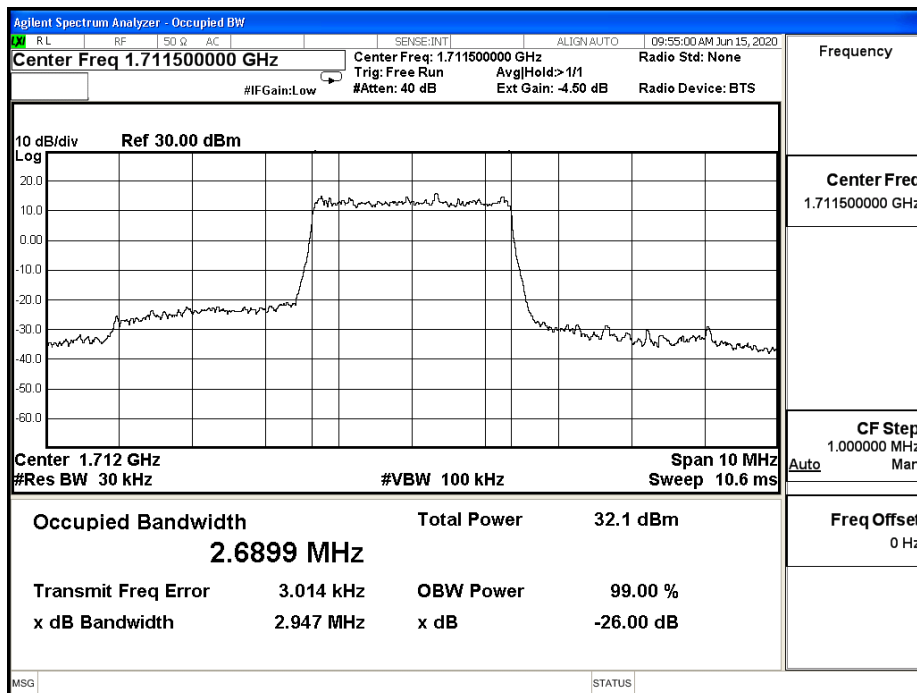
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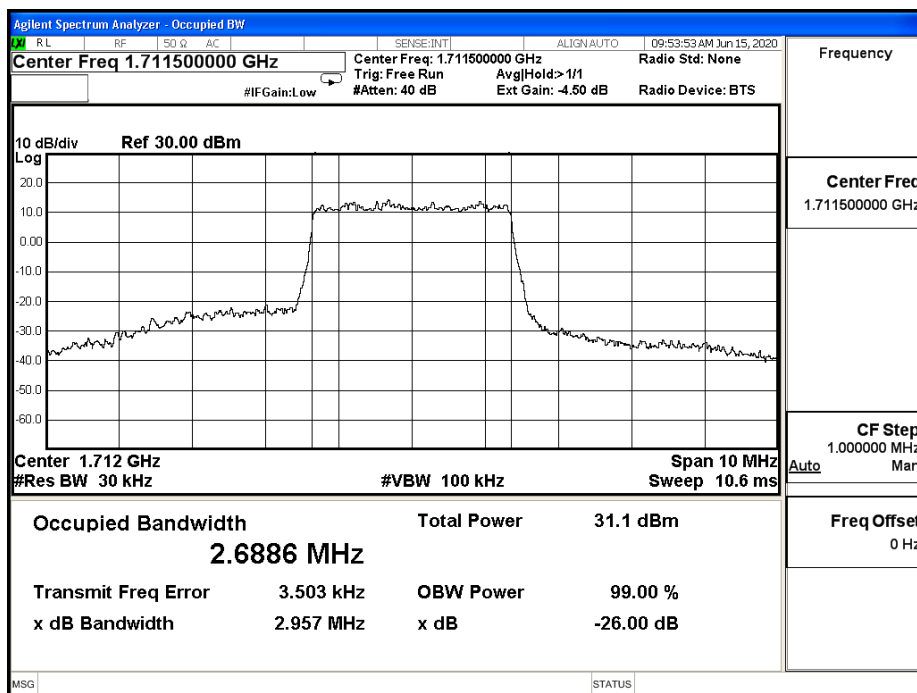
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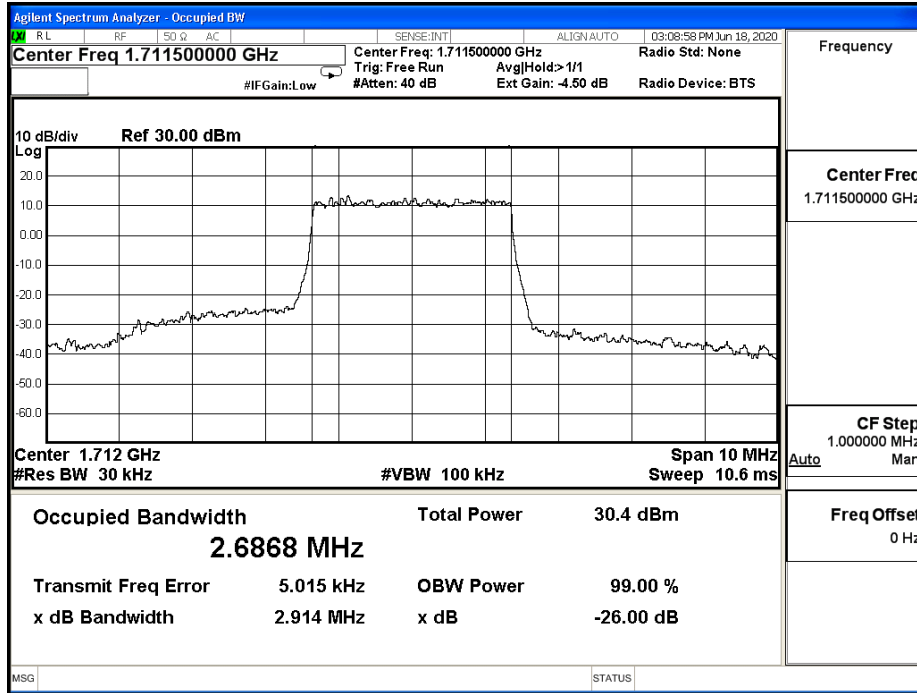
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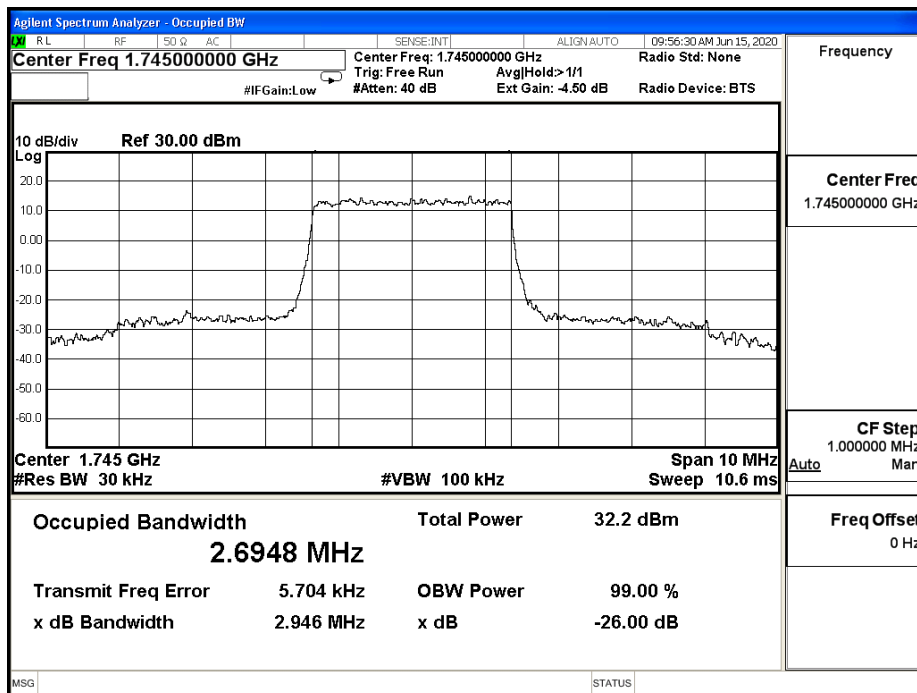
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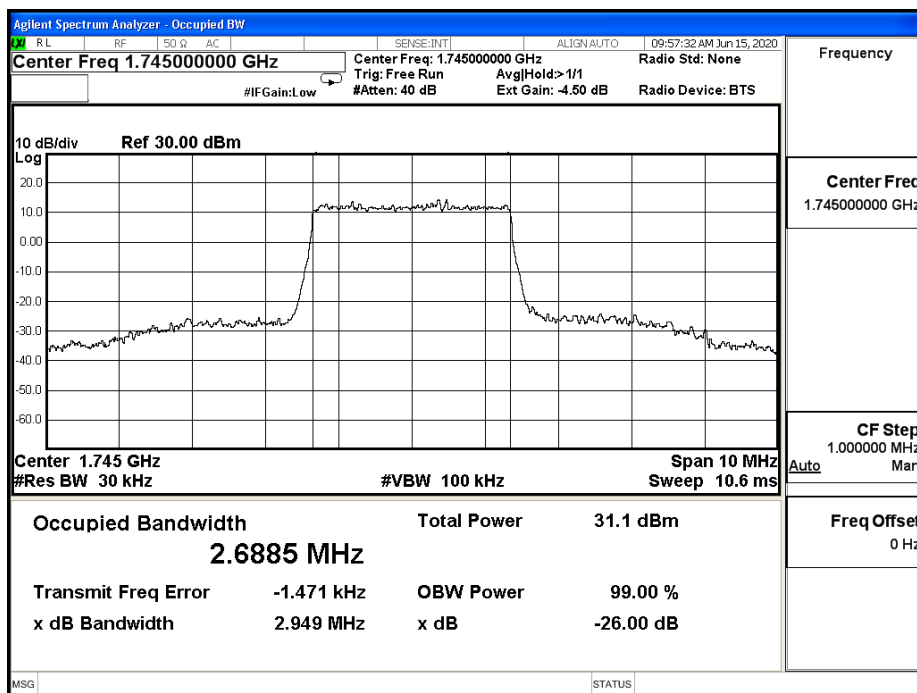
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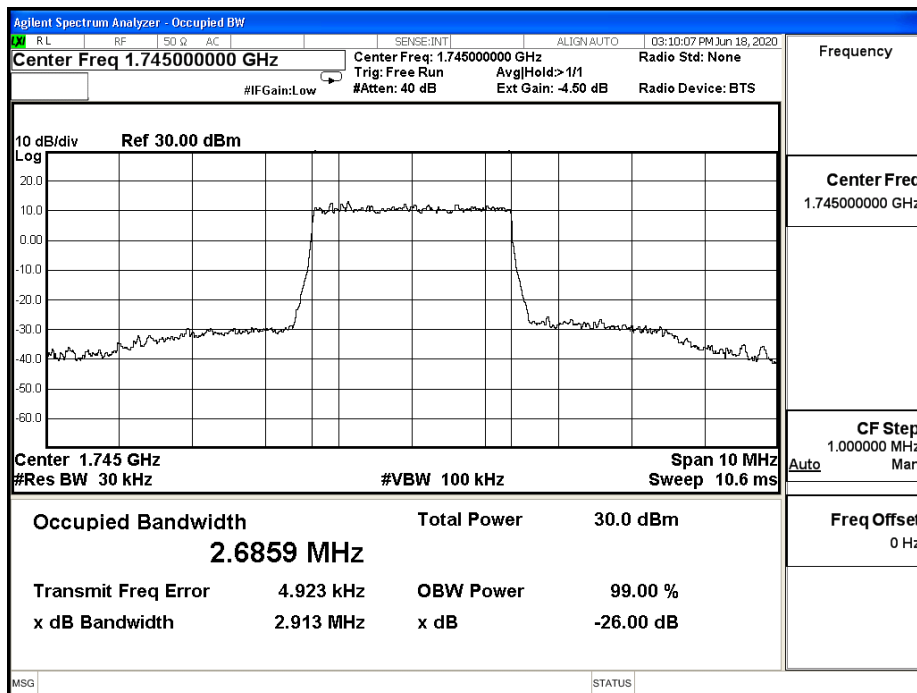
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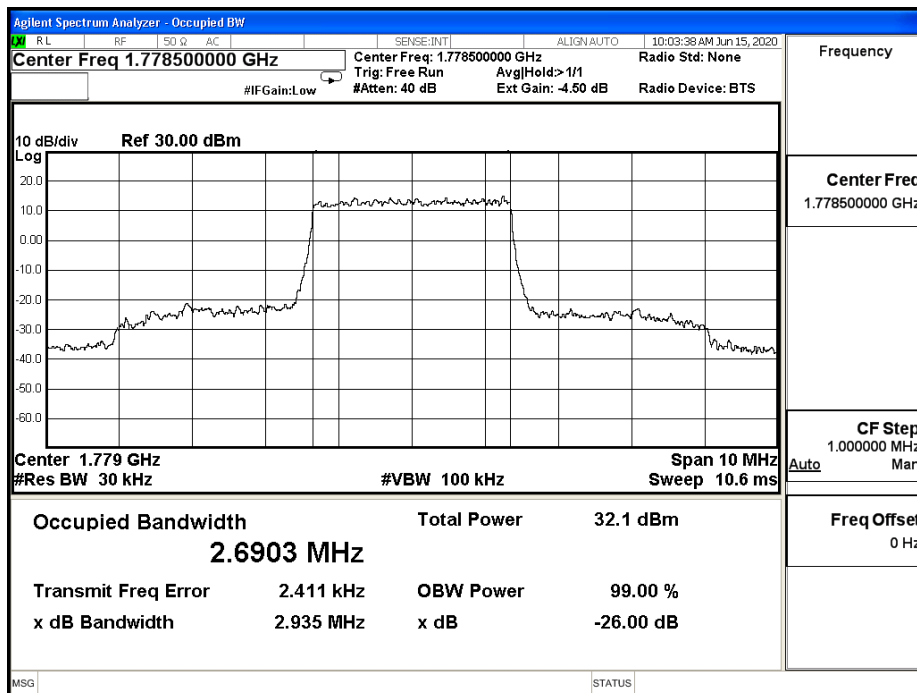
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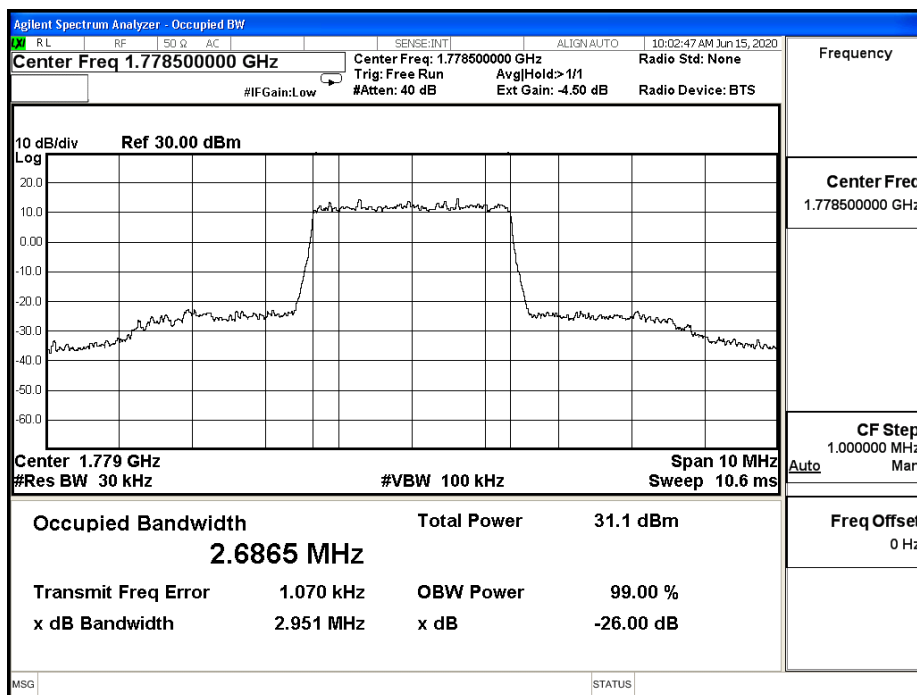
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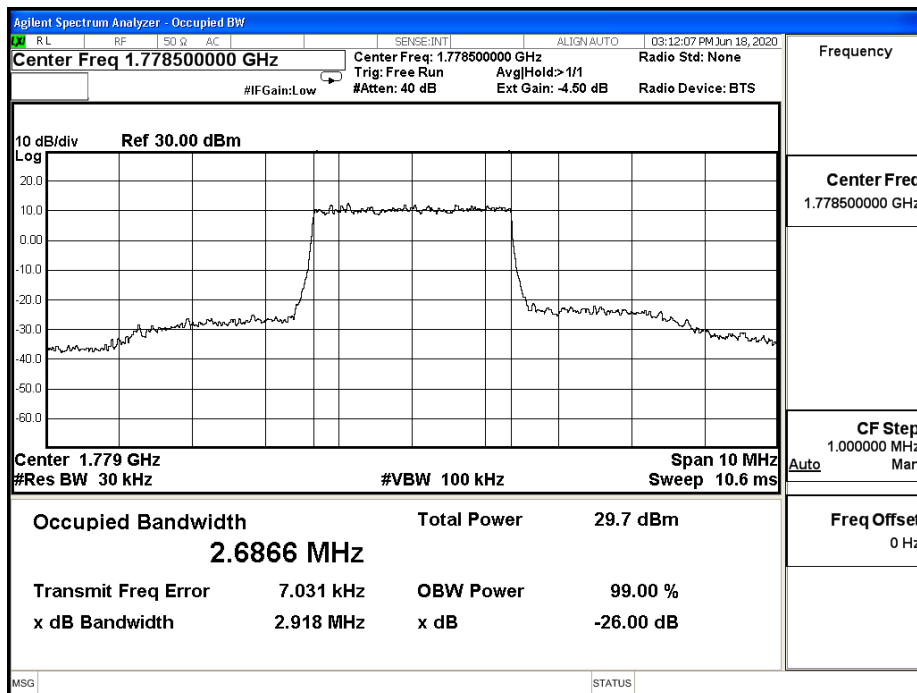
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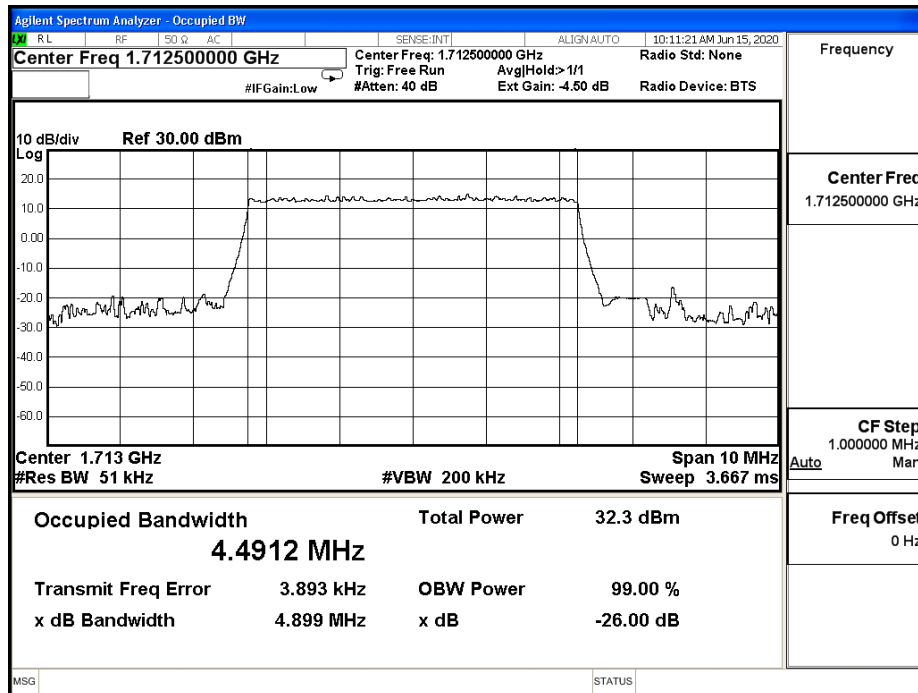
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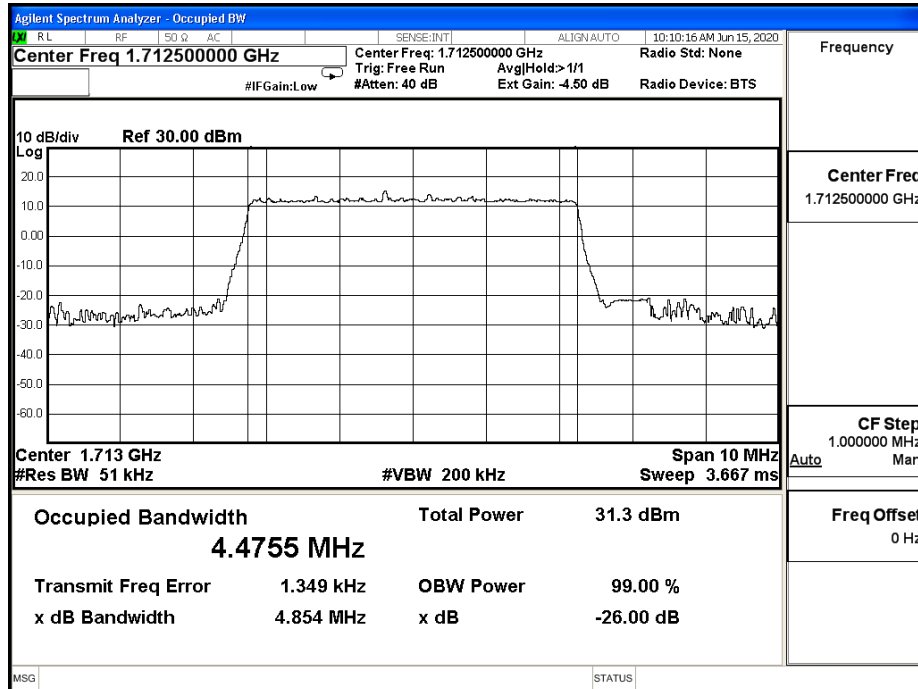
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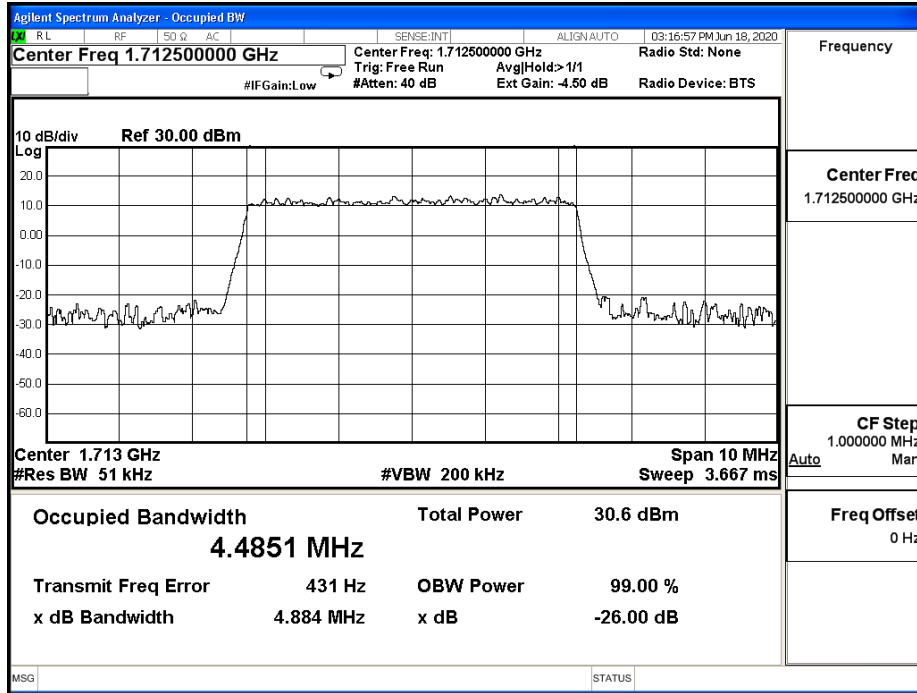
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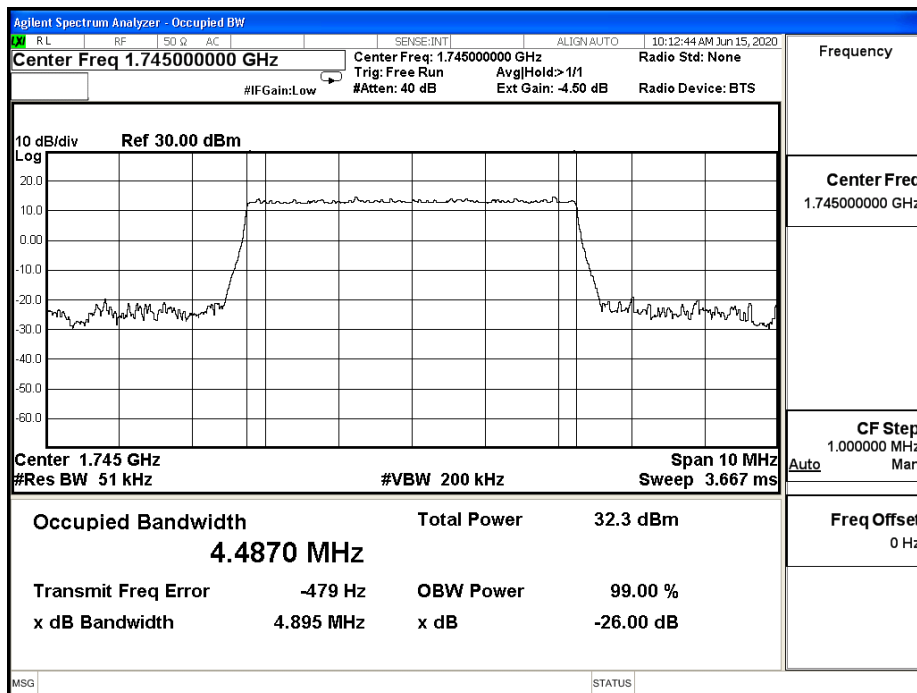
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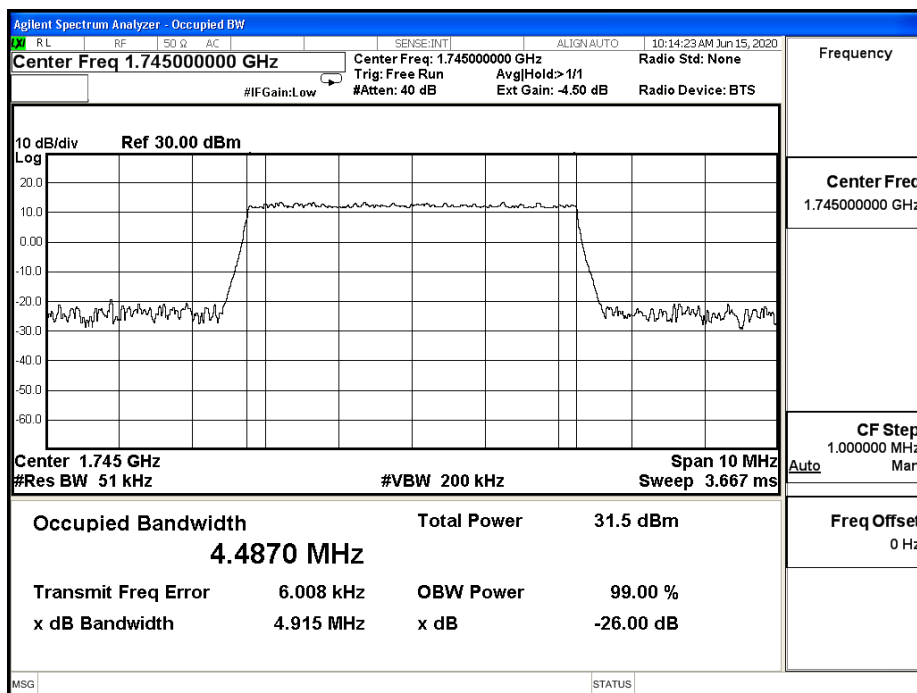
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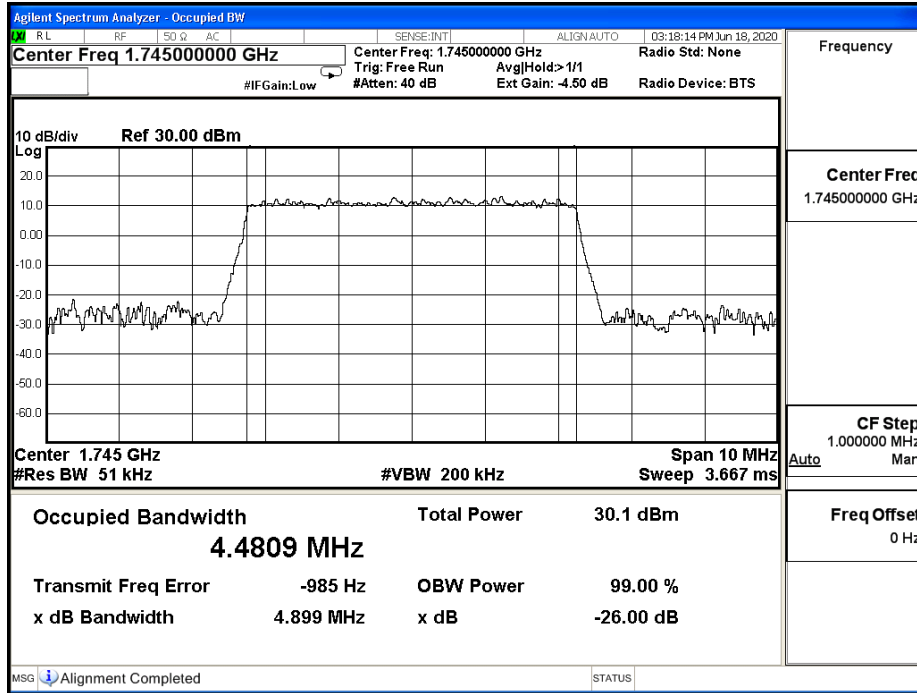
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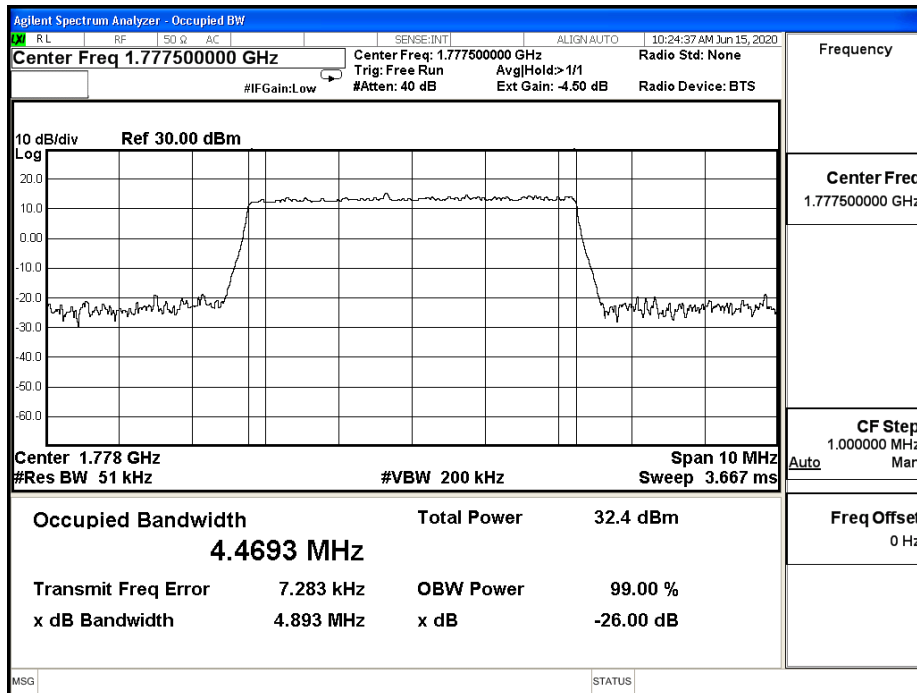
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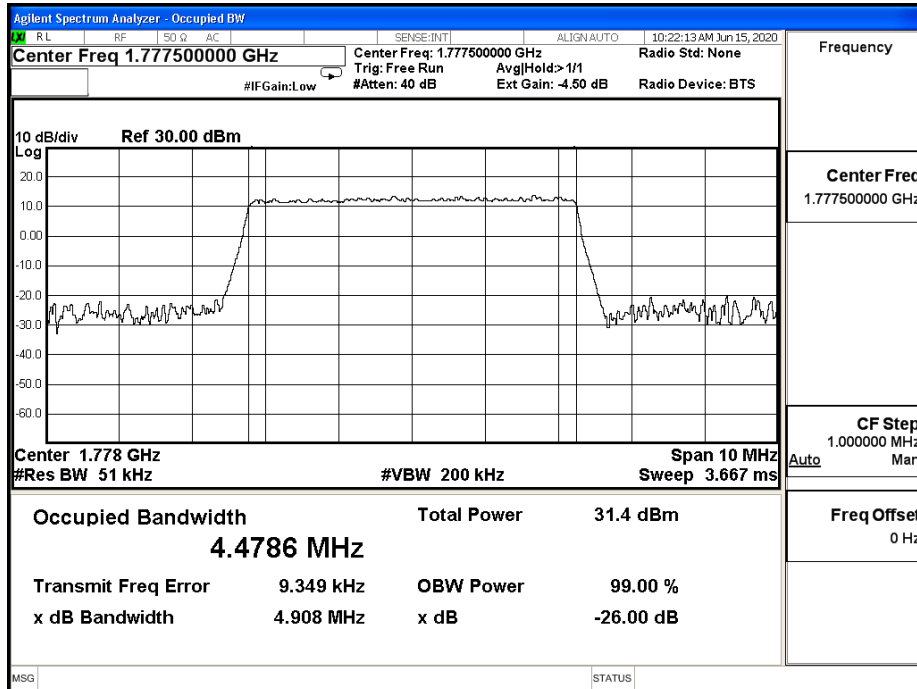
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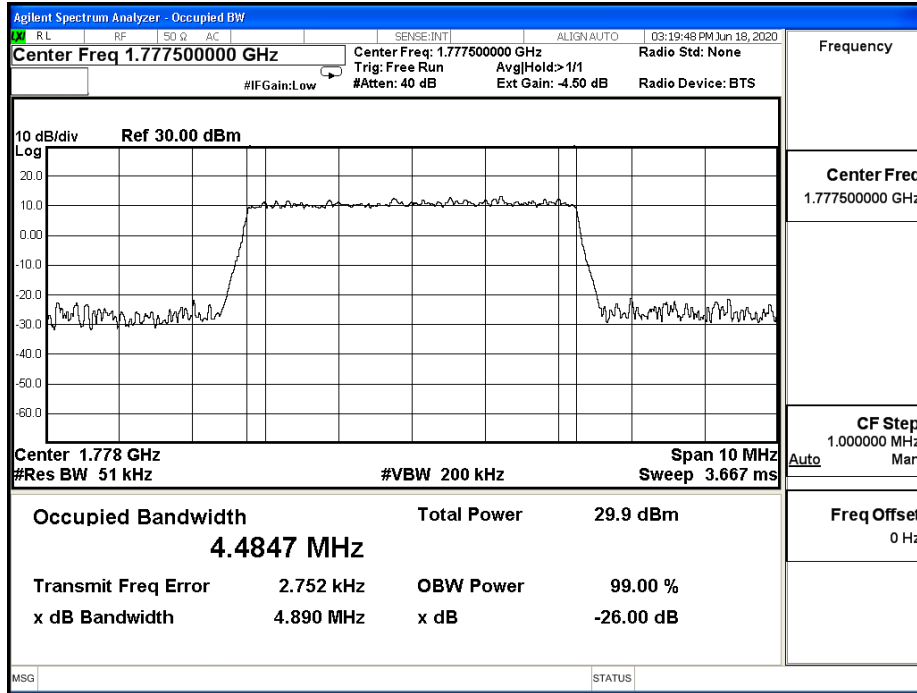
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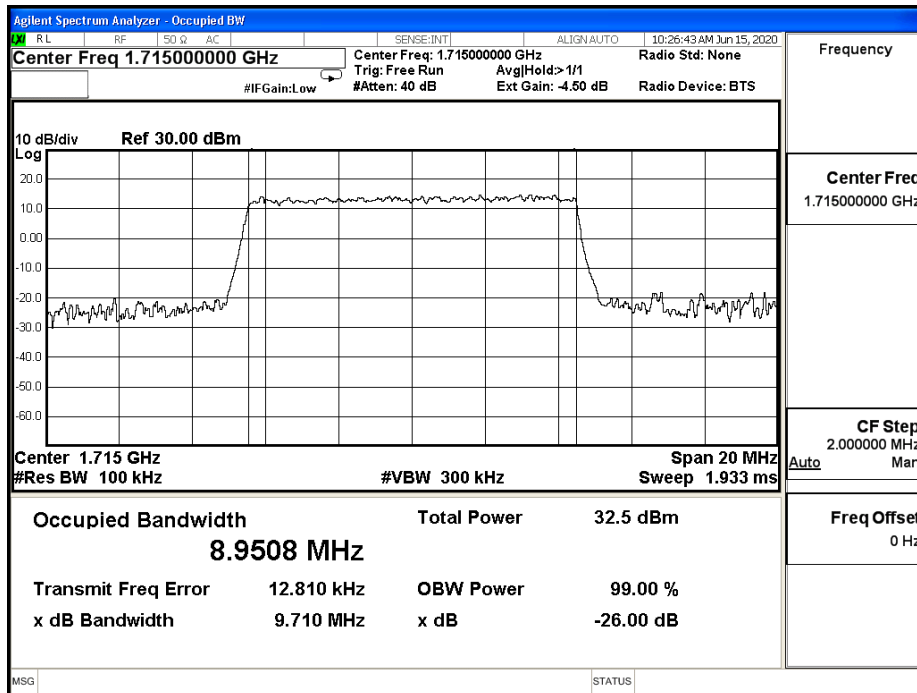
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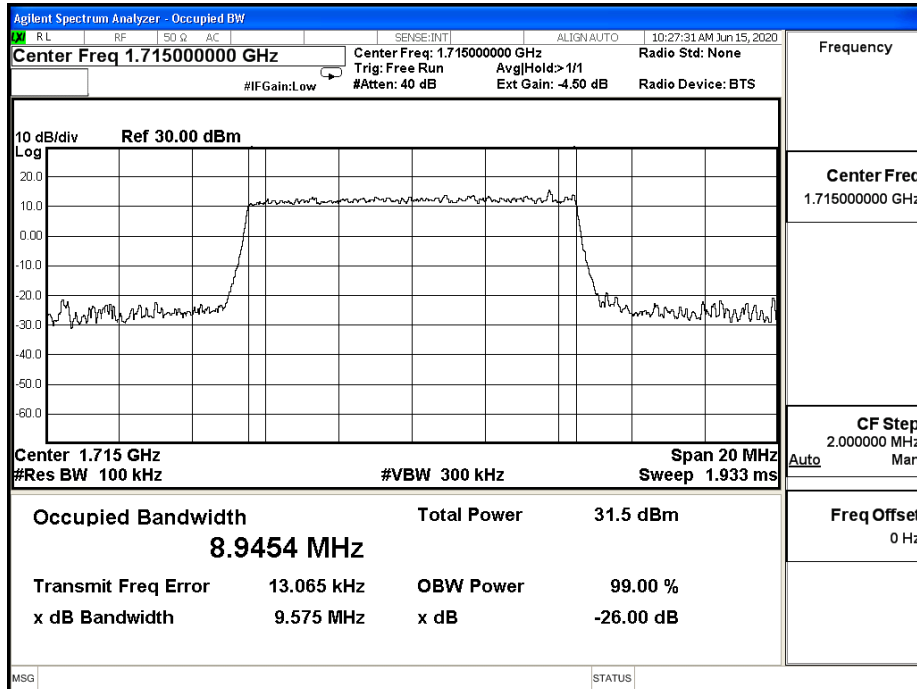
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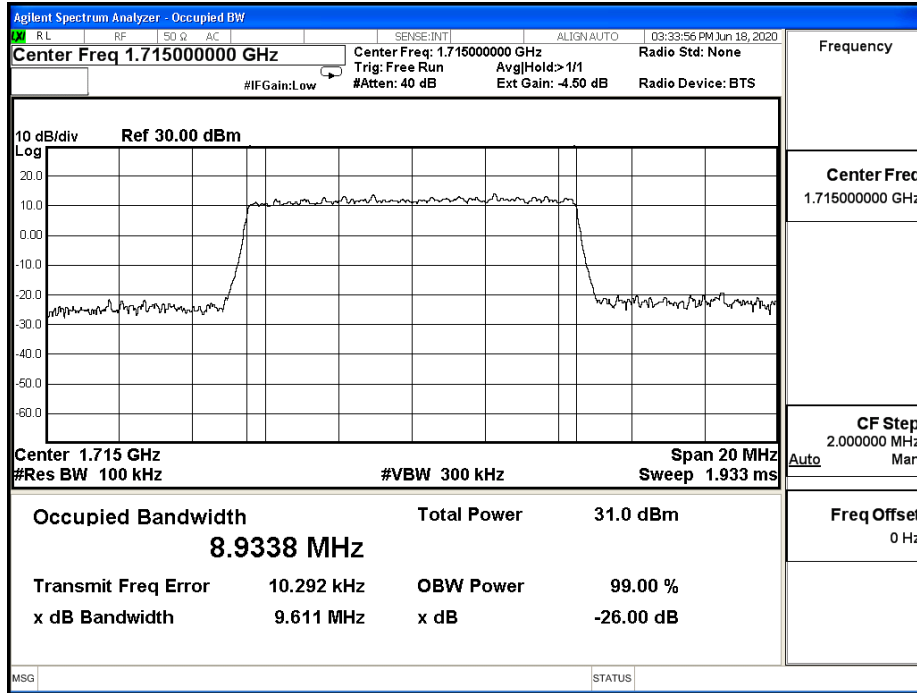
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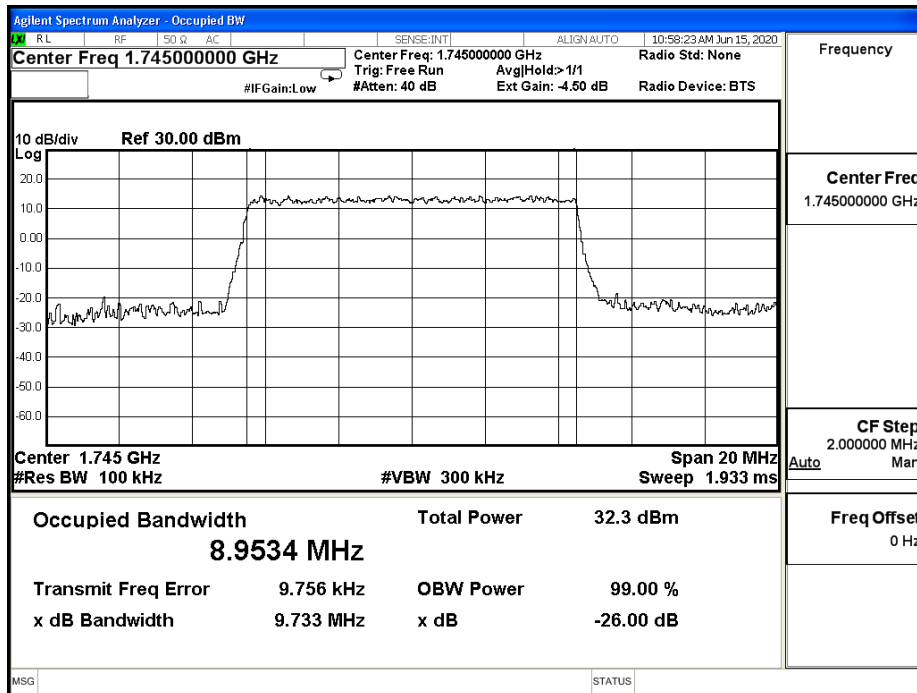
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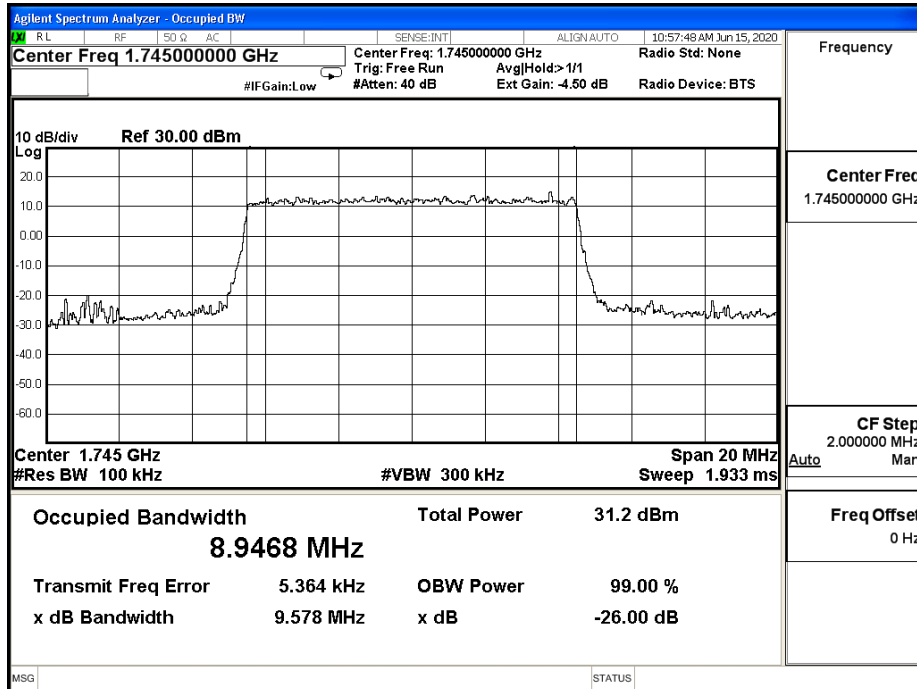
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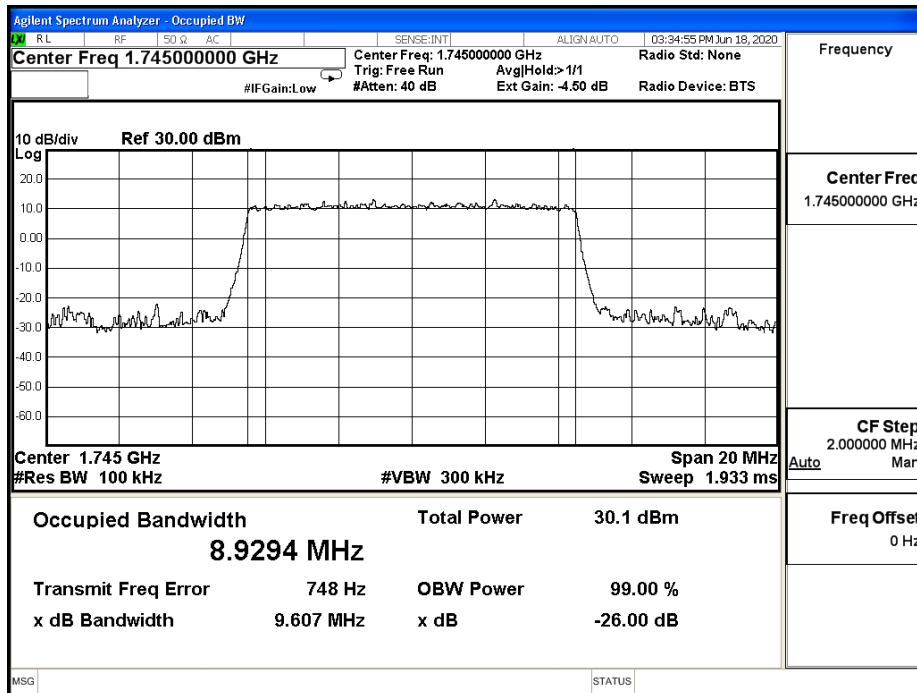
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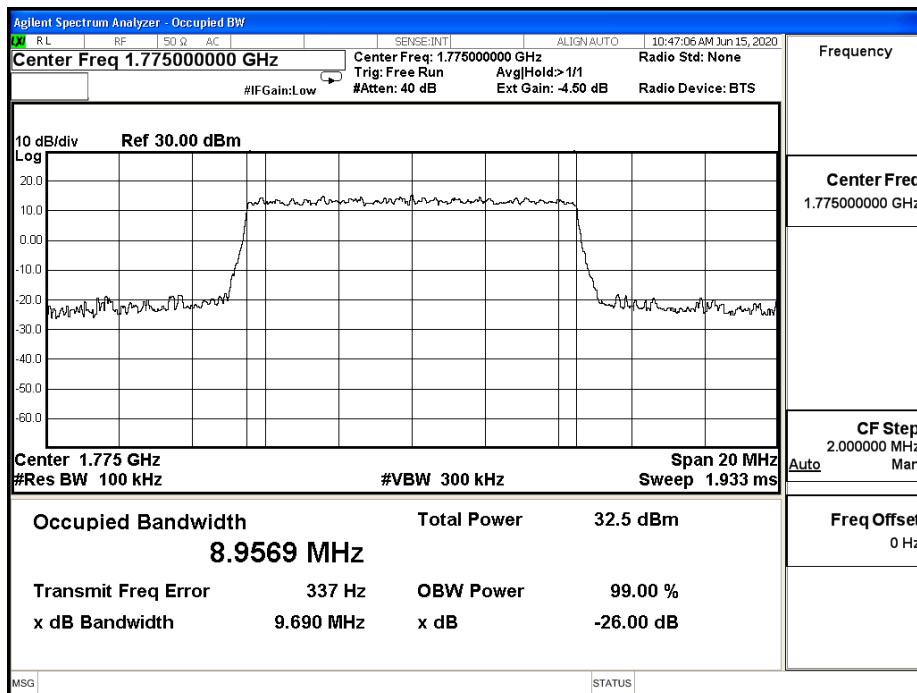
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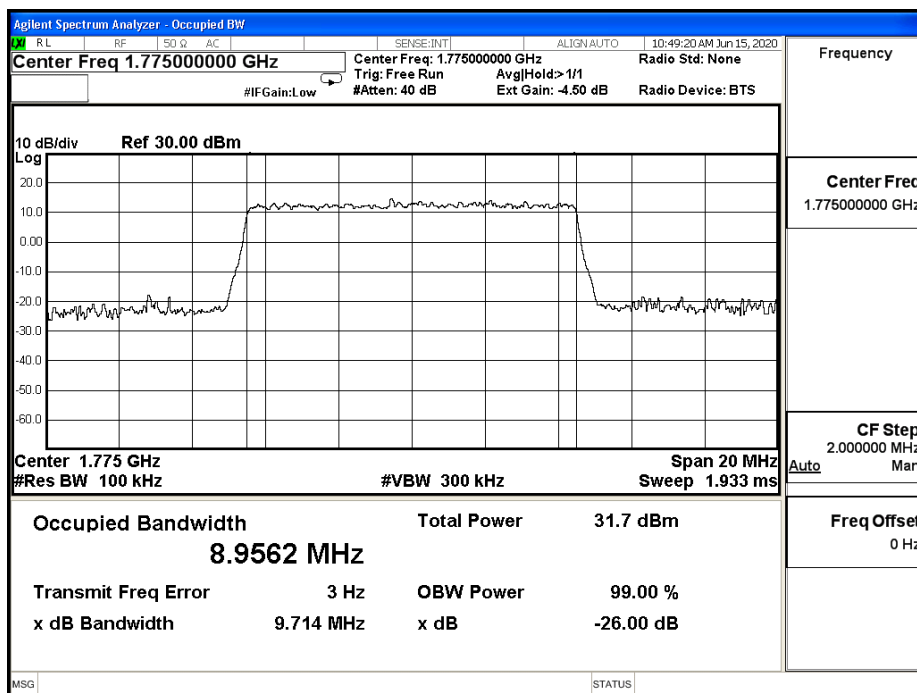
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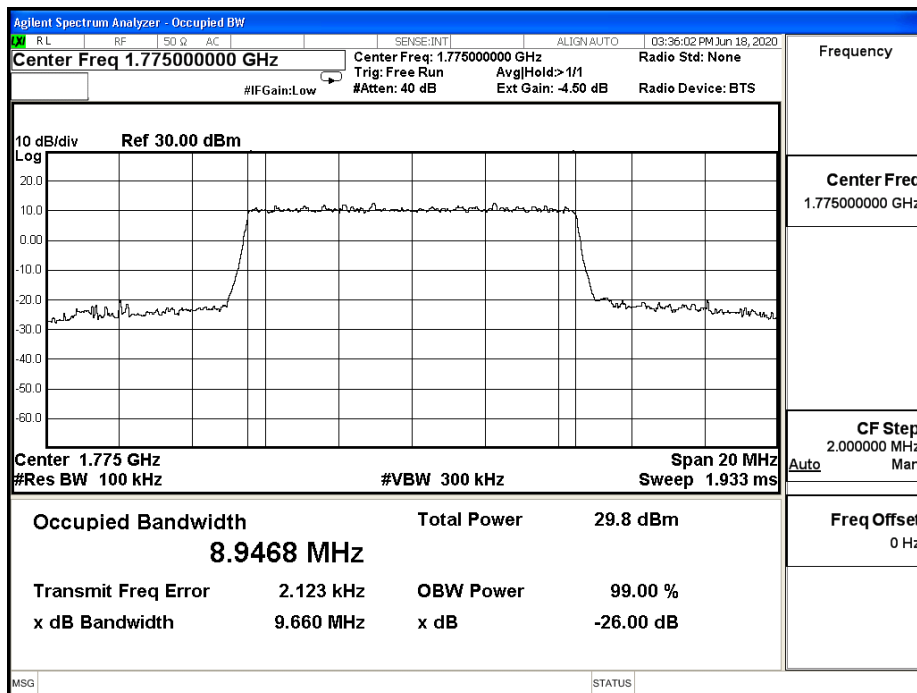
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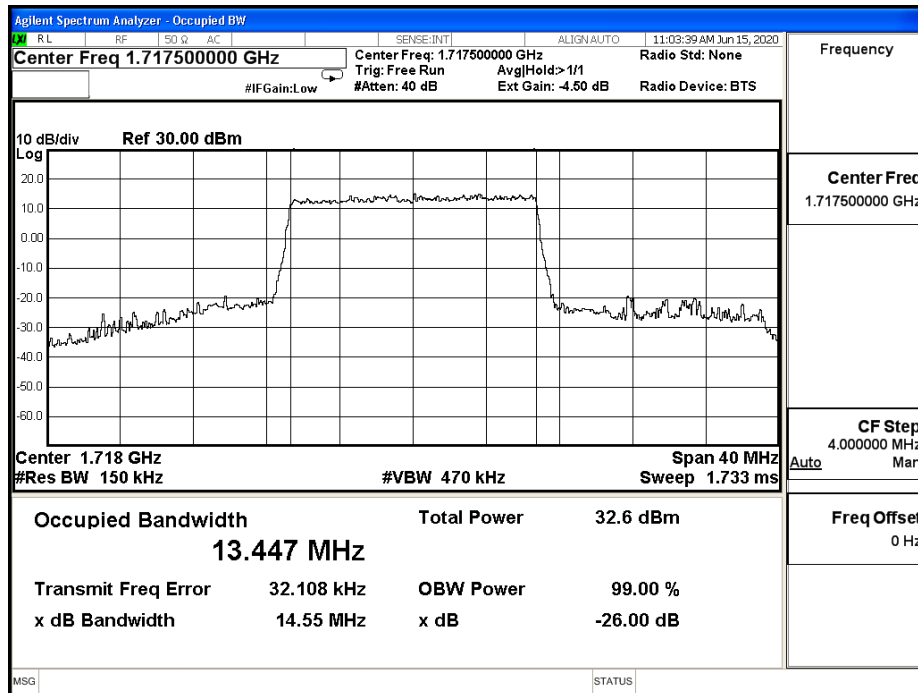
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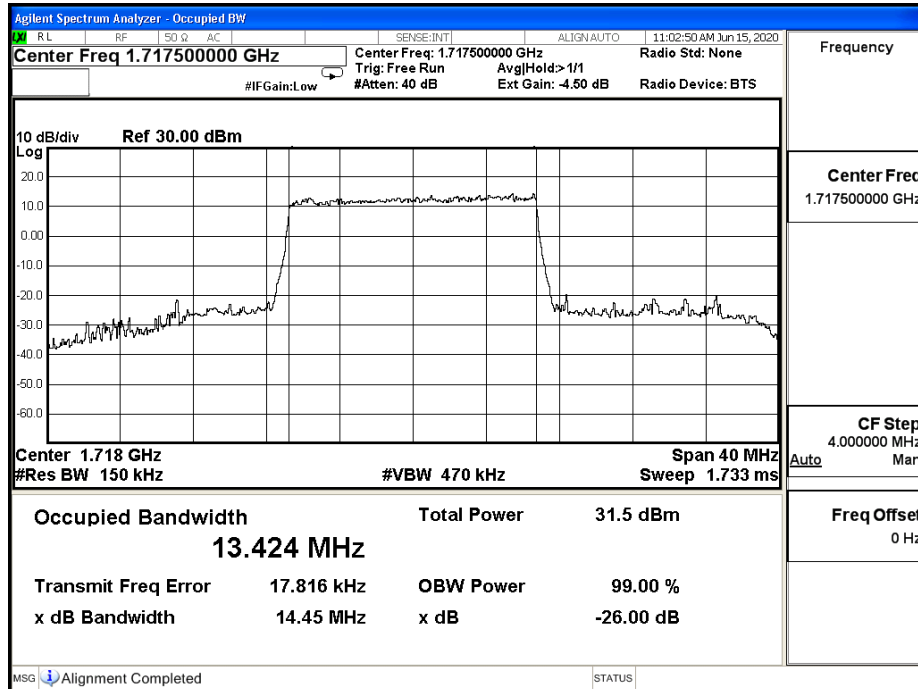
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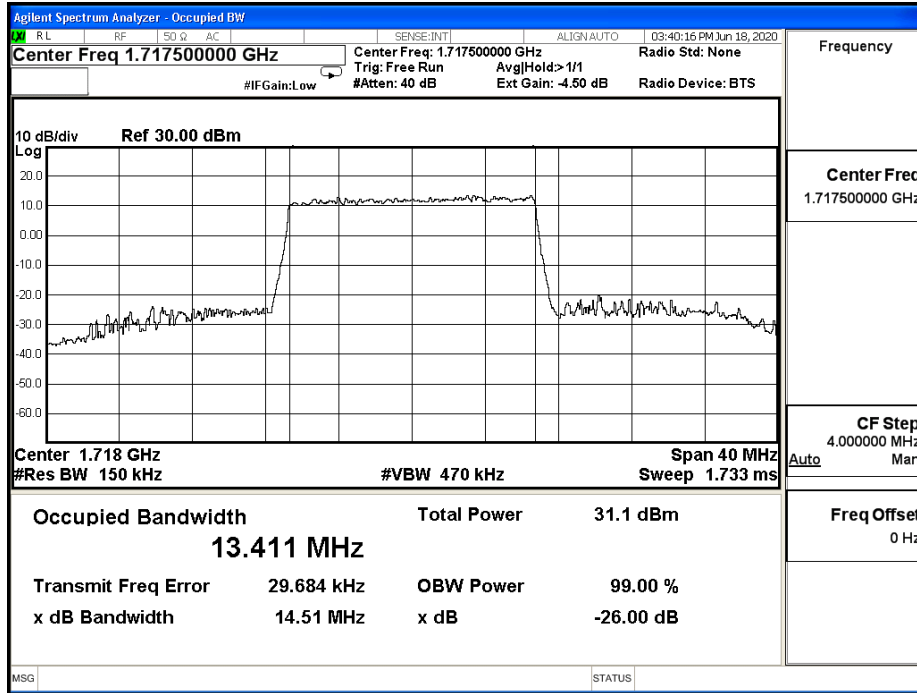
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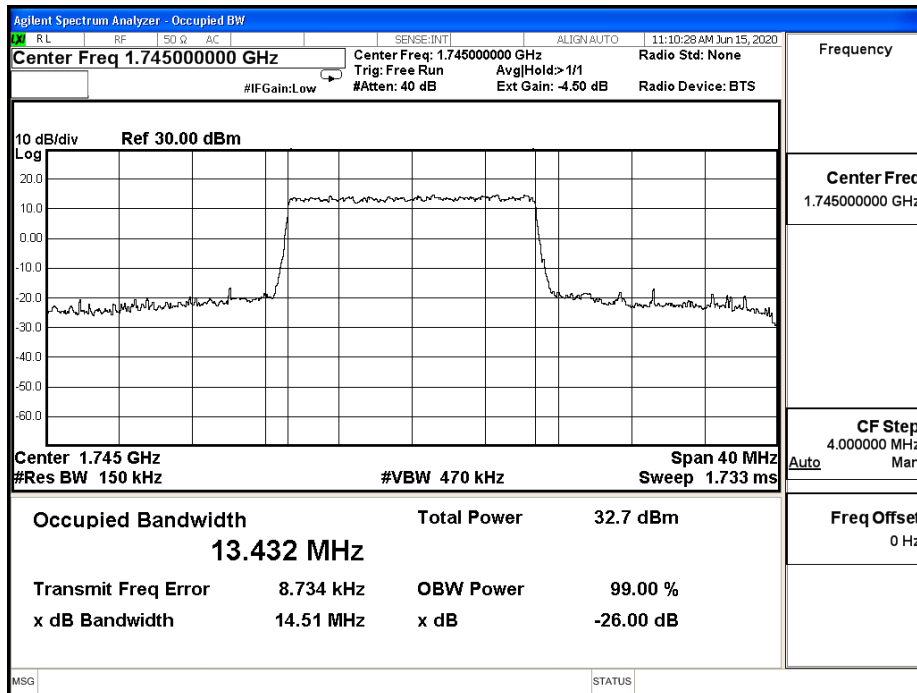
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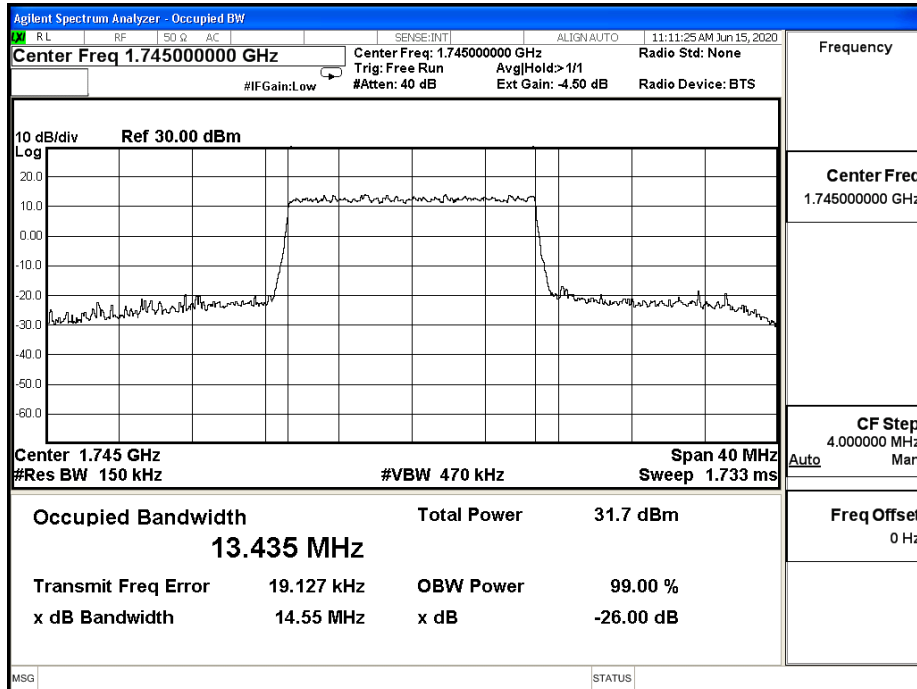
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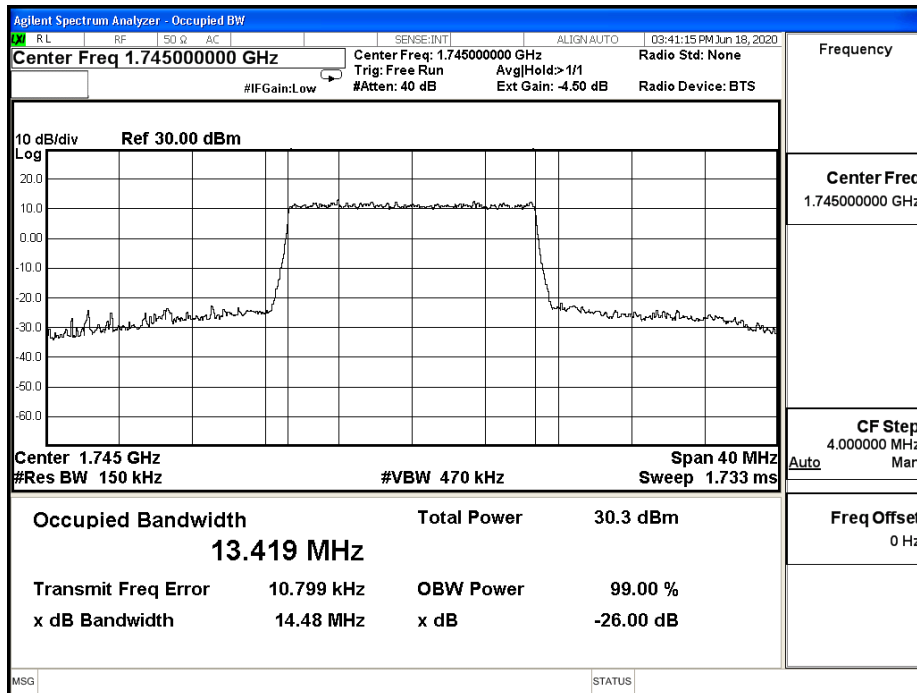
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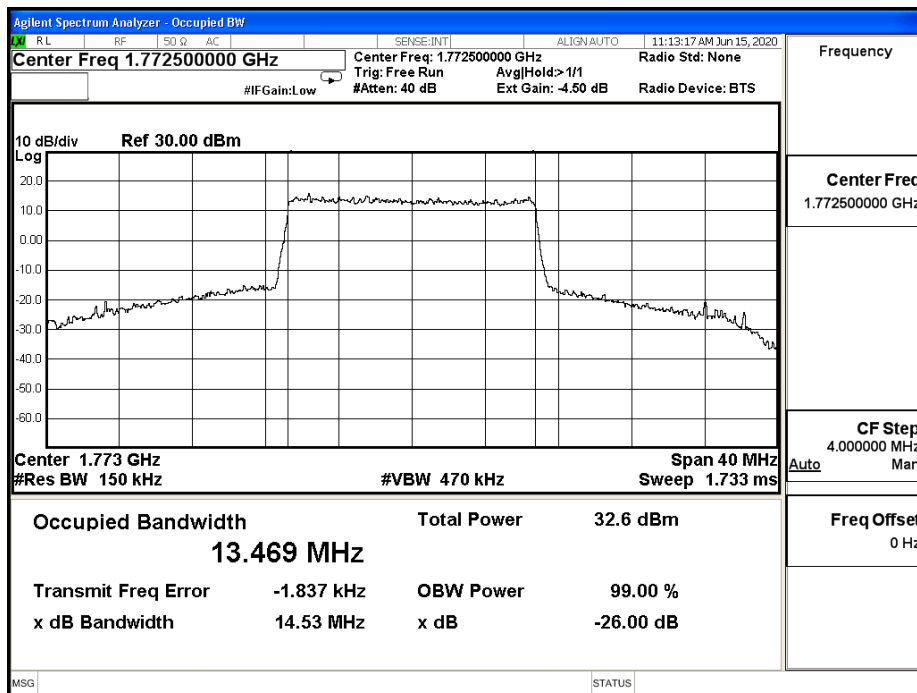
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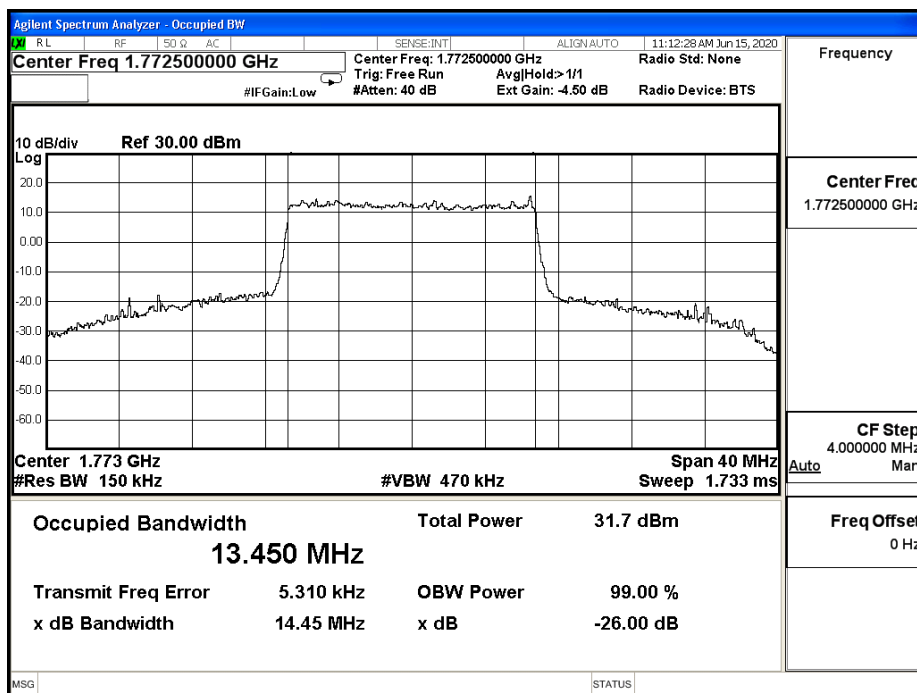
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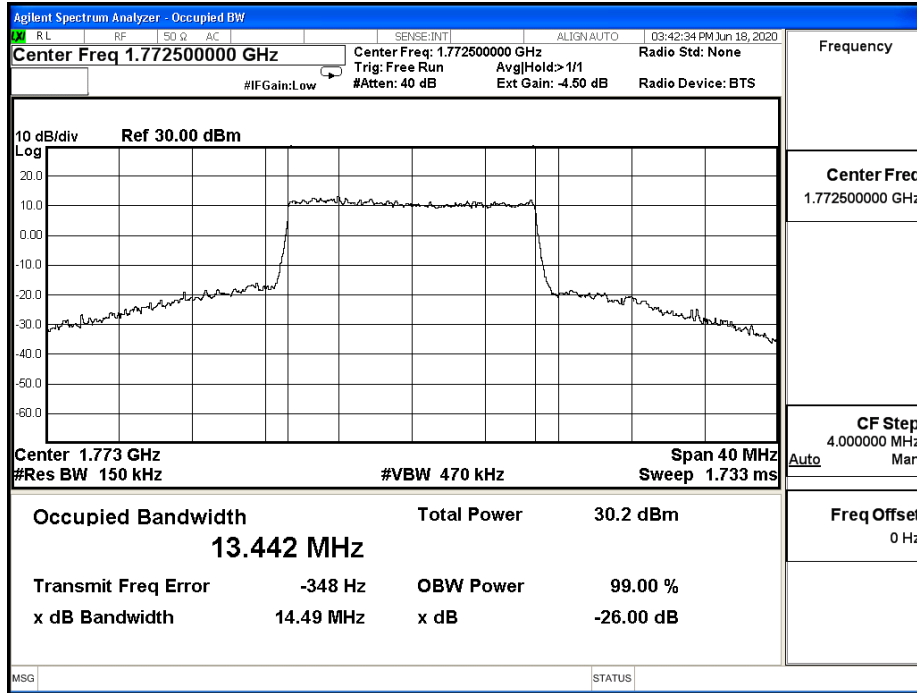
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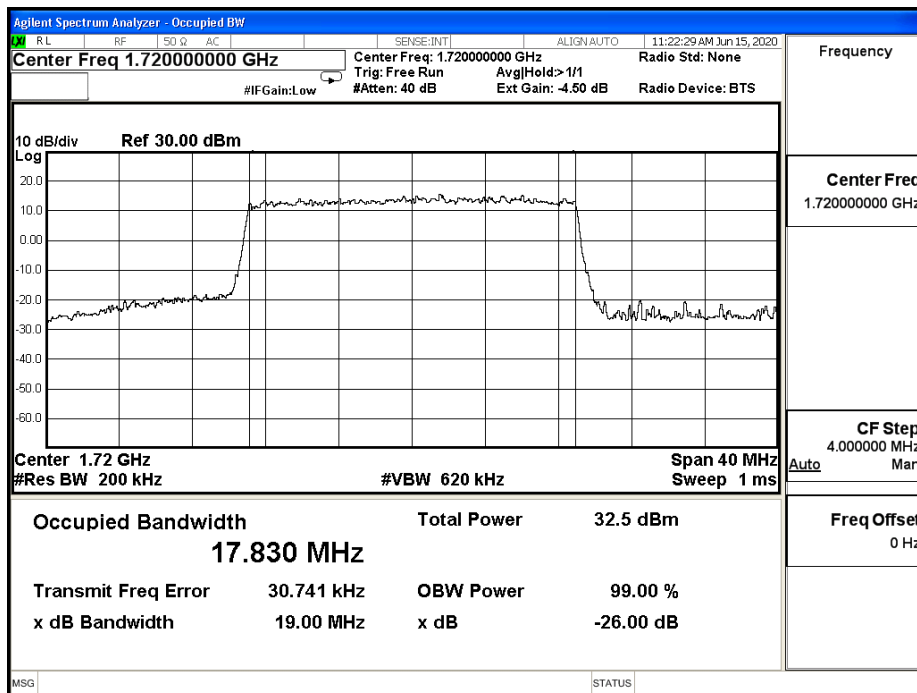
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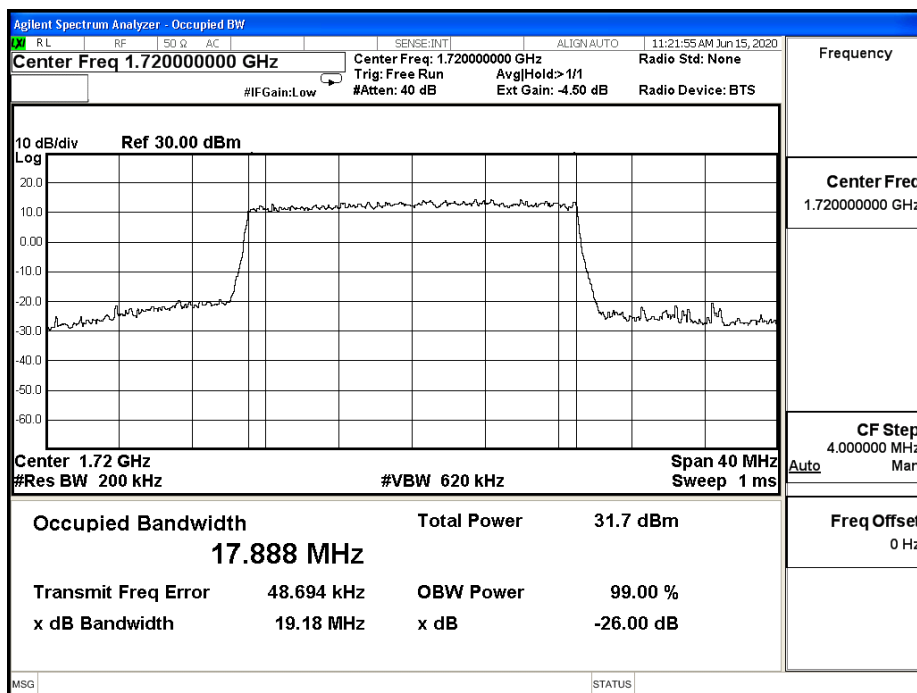
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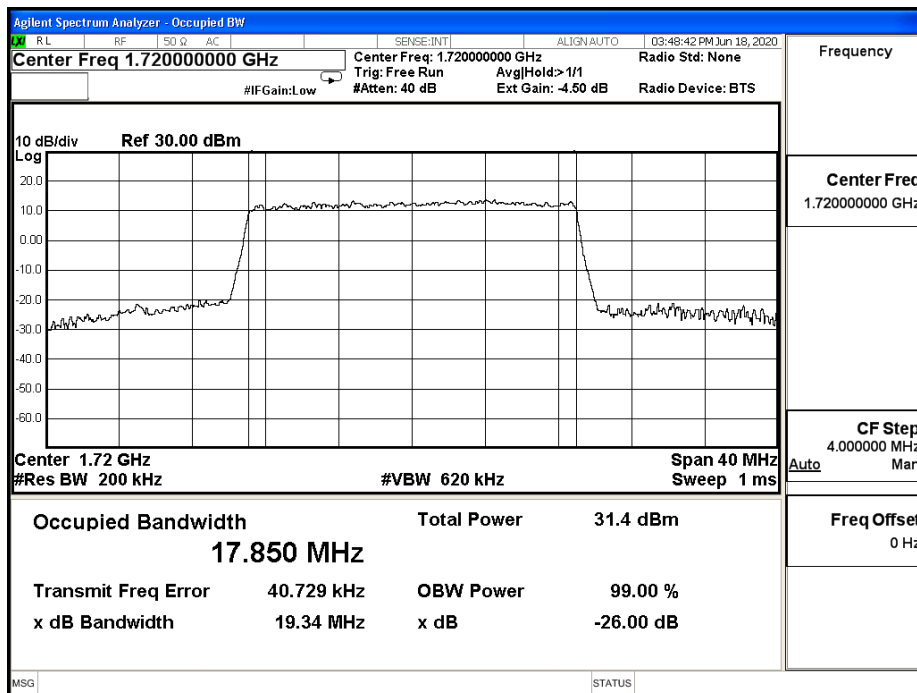
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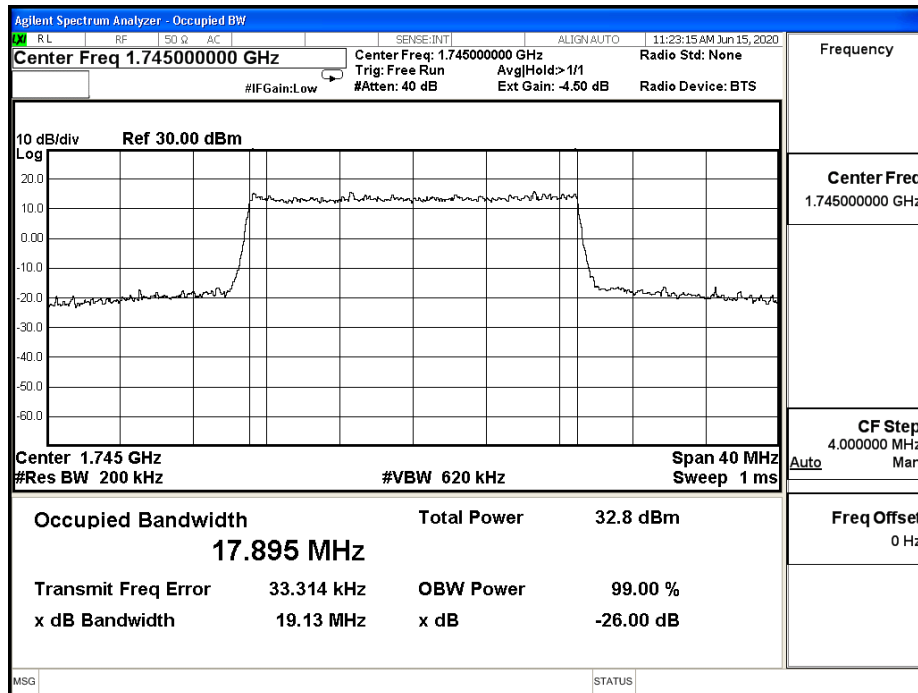
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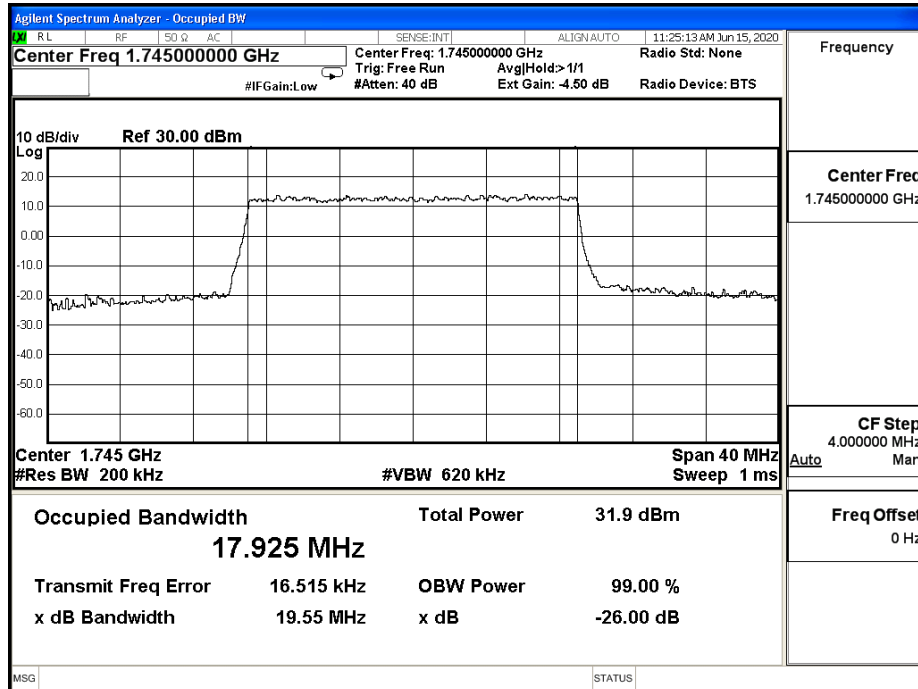
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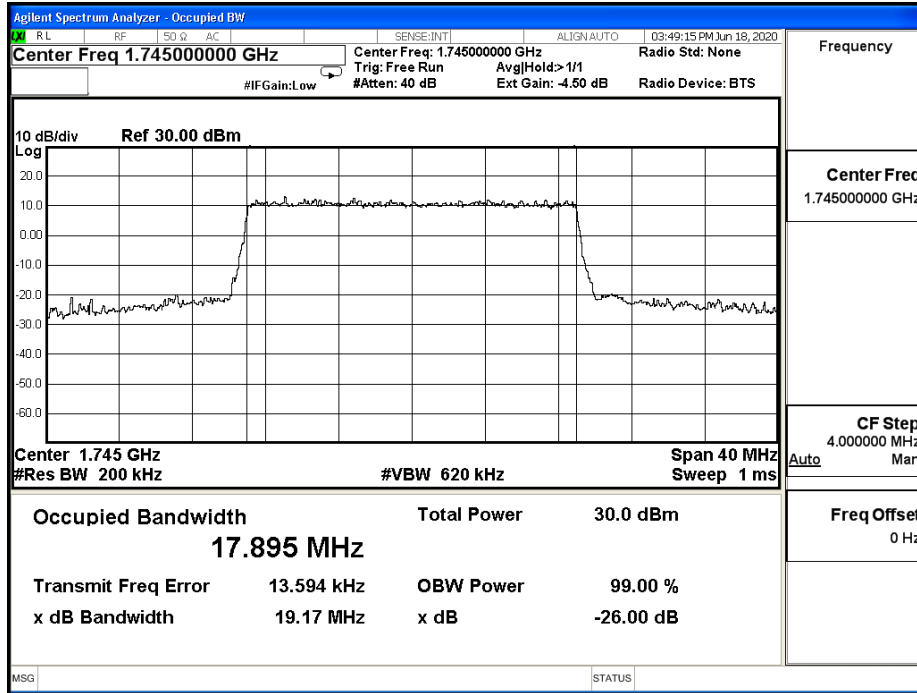
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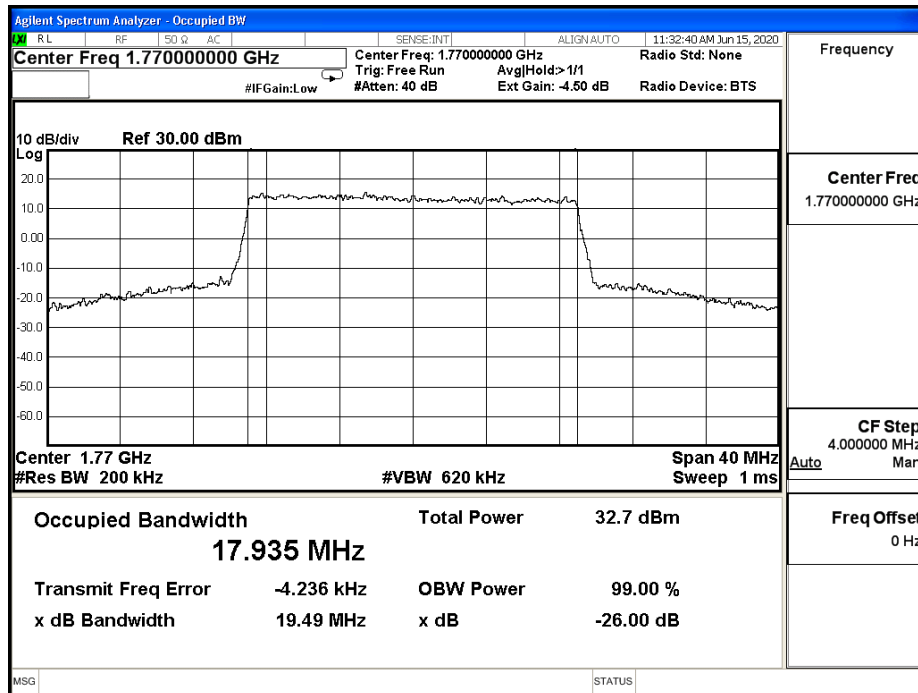
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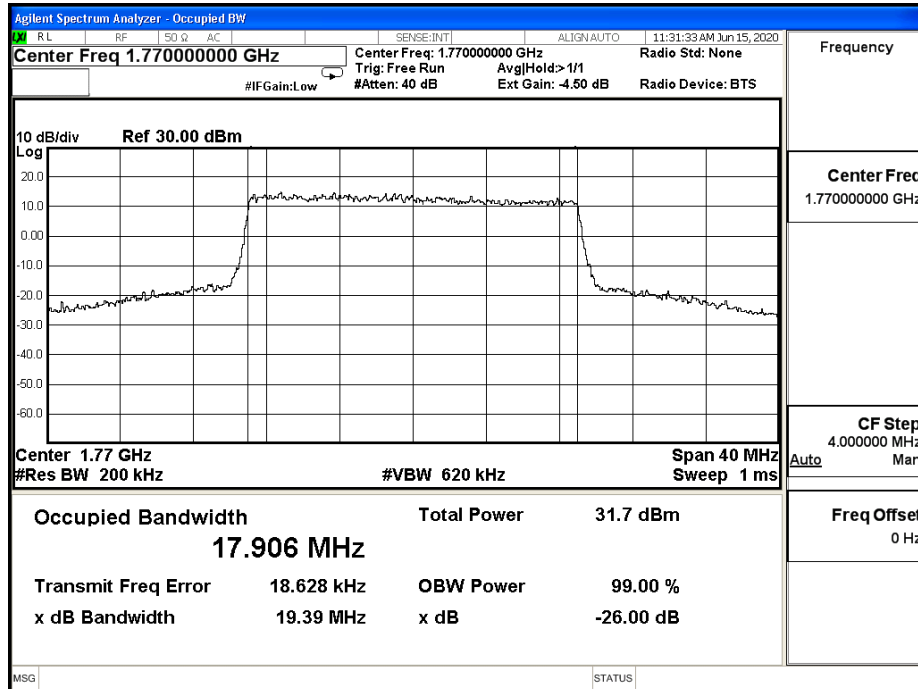
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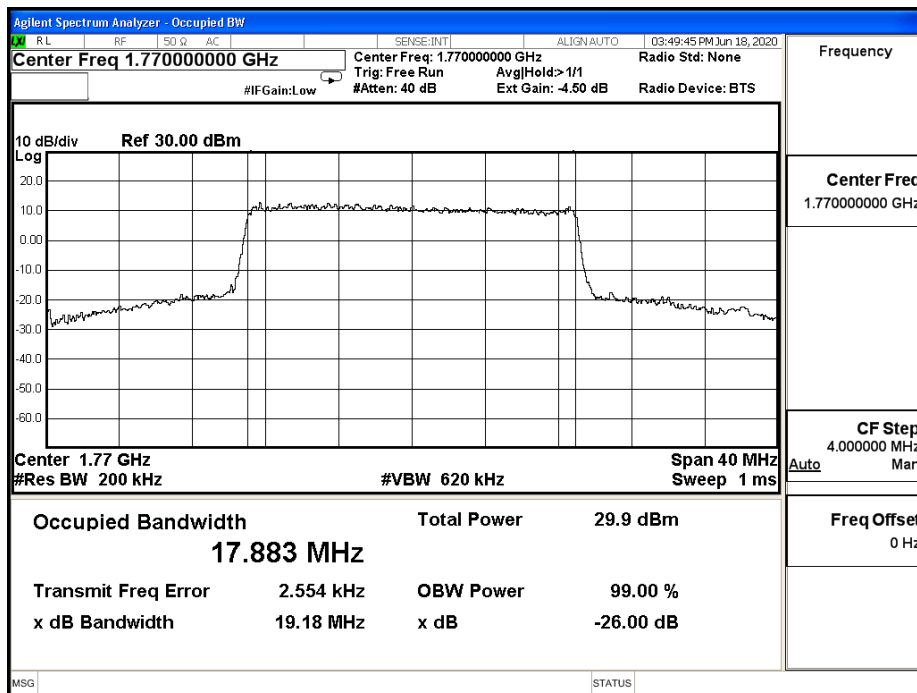
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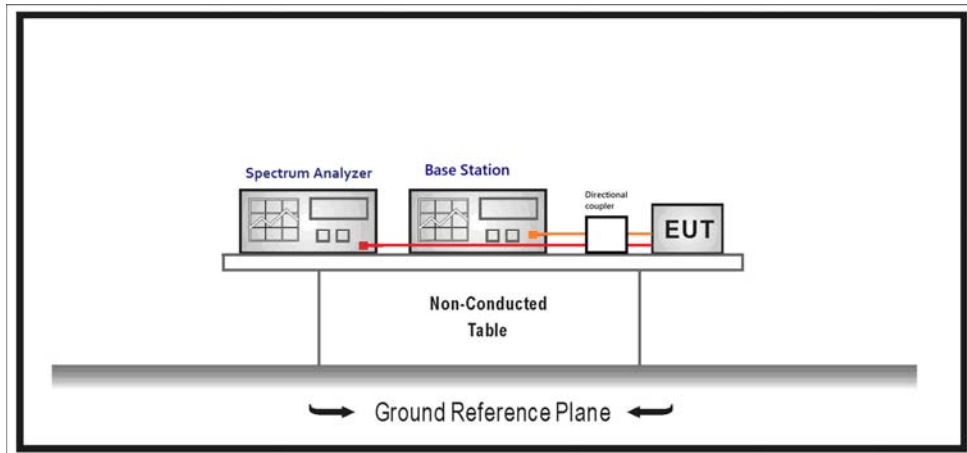


LTE_B66_CH132572_20M_64-QAM_100RB0



5. Peak To Average Ratio

5.1. Test Setup



5.2. Test Procedure

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth.
2. Set the number of counts to a value that stabilizes the measured CCDF curve.
3. Record the maximum PAPR level associated with a probability of 0.1 %.

5.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.7.2
ANSI C63.26-2015 Sub-clause 5.2.3.4

5.4. Test Result

| | | | |
|------------------|-----------------------|----------------|--------|
| Product | LV55 | | |
| Test Item | Peak To Average Ratio | | |
| Test Mode | Mode 1: LTE Band 2 | | |
| Date of Test | 2020/06/16 | Test Site | SR12-H |
| Temperature (°C) | 24 | Humidity (%RH) | 60 |

| Band 2 | | | | | | |
|--------|-------|-------------|------------|------------|---------------|-----------|
| BW | Ch | Freq. (MHz) | Modulation | Peak (dBm) | Average (dBm) | PAPR (dB) |
| 1.4M | 18607 | 1850.7 | QPSK | 27.04 | 22.93 | 4.00 |
| | | | 16-QAM | 27.93 | 22.45 | 5.48 |
| | 18900 | 1880 | QPSK | 27.21 | 23.19 | 4.00 |
| | | | 16-QAM | 28.03 | 22.27 | 5.77 |
| | 19193 | 1909.3 | QPSK | 26.82 | 23.25 | 3.62 |
| | | | 16-QAM | 26.86 | 22.39 | 4.49 |
| 3M | 18615 | 1851.5 | QPSK | 26.78 | 23.01 | 3.80 |
| | | | 16-QAM | 27.80 | 22.12 | 5.68 |
| | 18900 | 1880 | QPSK | 26.74 | 22.96 | 3.83 |
| | | | 16-QAM | 27.88 | 22.09 | 5.80 |
| | 19185 | 1908.5 | QPSK | 26.68 | 23.12 | 3.57 |
| | | | 16-QAM | 26.72 | 22.19 | 4.58 |
| 5M | 18625 | 1852.5 | QPSK | 26.44 | 22.65 | 3.74 |
| | | | 16-QAM | 27.49 | 22.08 | 5.45 |
| | 18900 | 1880 | QPSK | 26.47 | 22.74 | 3.71 |
| | | | 16-QAM | 27.49 | 21.84 | 5.65 |
| | 19175 | 1907.5 | QPSK | 26.35 | 22.75 | 3.65 |
| | | | 16-QAM | 26.35 | 22.10 | 4.32 |
| 10M | 18650 | 1855 | QPSK | 24.75 | 21.02 | 3.71 |
| | | | 16-QAM | 25.69 | 20.03 | 5.62 |
| | 18900 | 1880 | QPSK | 24.72 | 20.96 | 3.74 |
| | | | 16-QAM | 25.62 | 20.20 | 5.42 |
| | 19150 | 1905 | QPSK | 24.51 | 20.93 | 3.59 |
| | | | 16-QAM | 24.55 | 19.98 | 4.58 |

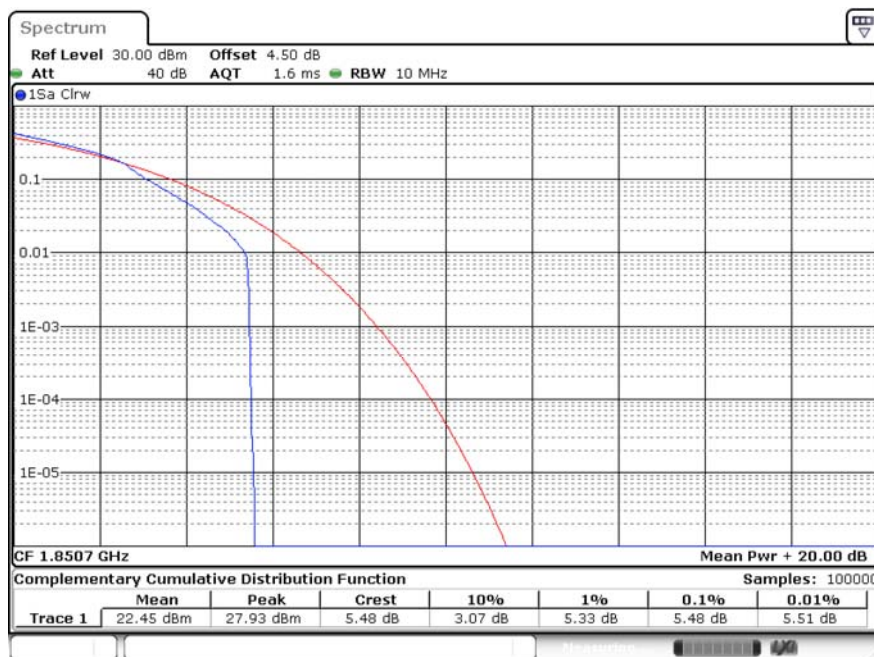
| Band 2 | | | | | | |
|--------|-------|-------------|------------|------------|---------------|-----------|
| BW | Ch | Freq. (MHz) | Modulation | Peak (dBm) | Average (dBm) | PAPR (dB) |
| 15M | 18675 | 1857.5 | QPSK | 21.51 | 17.81 | 3.68 |
| | | | 16-QAM | 22.71 | 16.89 | 5.77 |
| | 18900 | 1880 | QPSK | 21.54 | 17.85 | 3.68 |
| | | | 16-QAM | 22.73 | 17.08 | 5.65 |
| | 19125 | 1902.5 | QPSK | 21.51 | 17.95 | 3.54 |
| | | | 16-QAM | 21.69 | 17.12 | 4.58 |
| 20M | 18700 | 1860 | QPSK | 17.22 | 13.62 | 3.54 |
| | | | 16-QAM | 18.45 | 13.02 | 5.33 |
| | 18900 | 1880 | QPSK | 17.21 | 13.54 | 3.65 |
| | | | 16-QAM | 18.34 | 12.86 | 5.39 |
| | 19100 | 1900 | QPSK | 17.54 | 13.87 | 3.59 |
| | | | 16-QAM | 17.65 | 12.81 | 4.81 |

LTE_B2_CH18607_1.4M_QPSK_1RB0



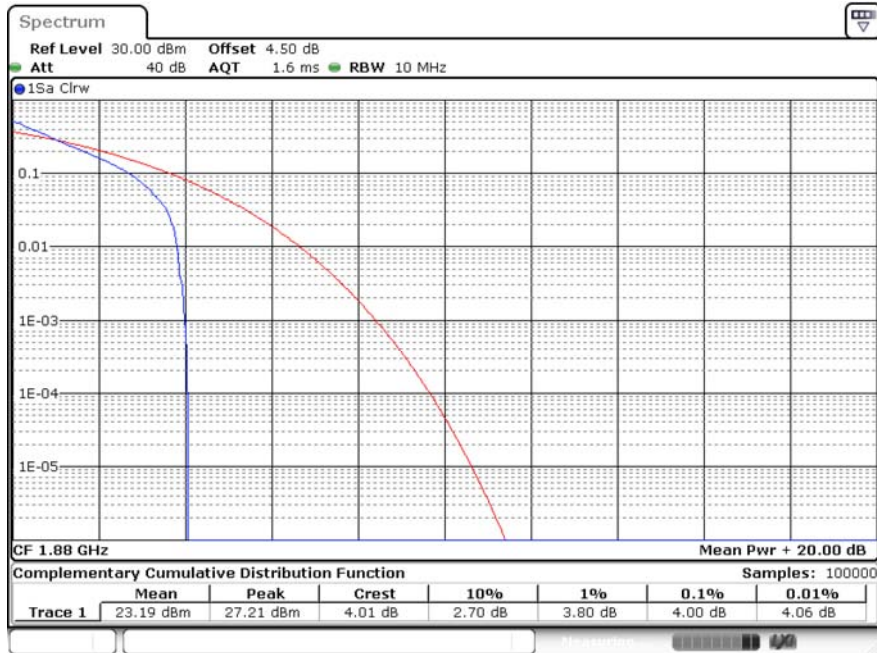
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LTE_B2_CH18900_1.4M_QPSK_1RB0



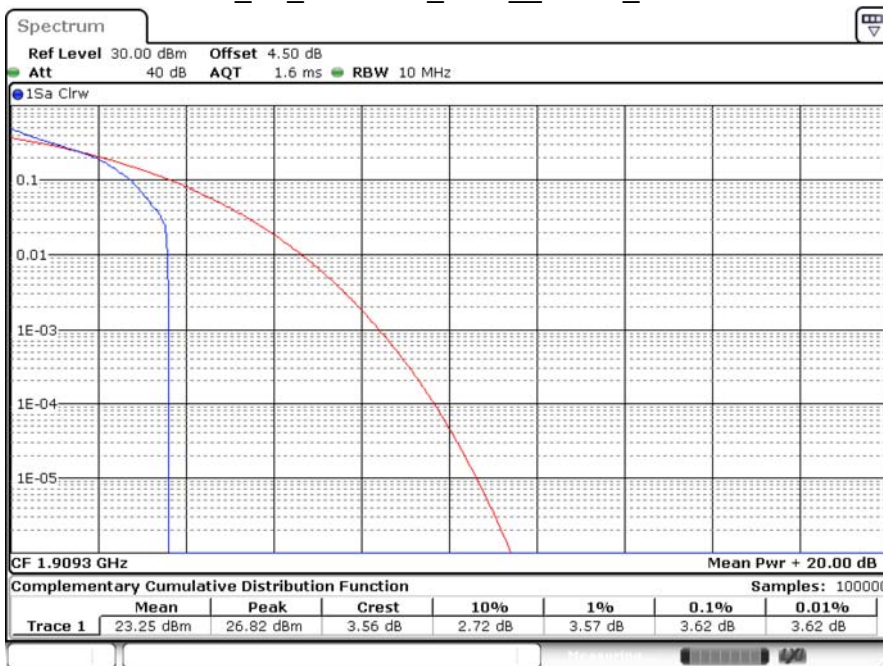
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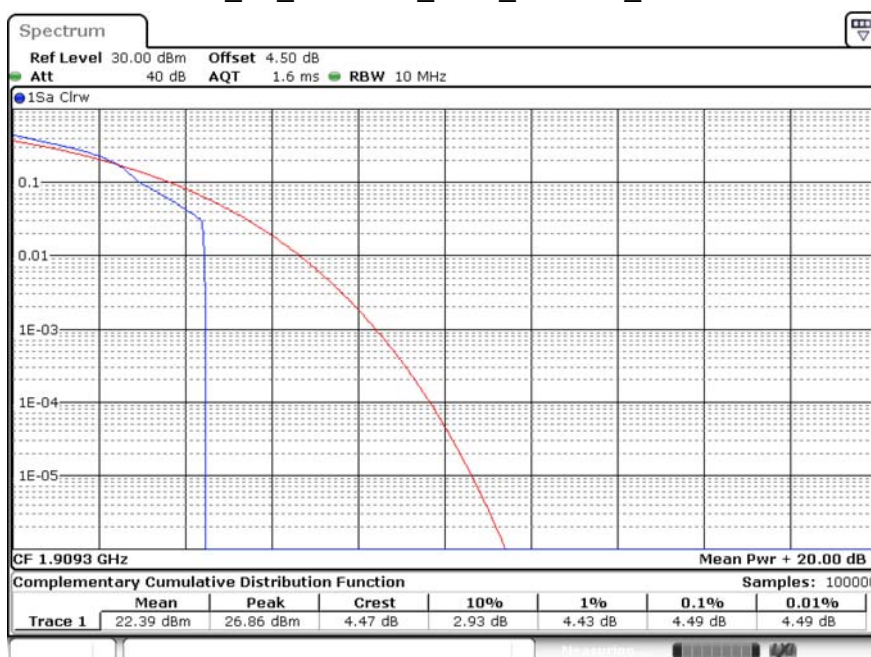
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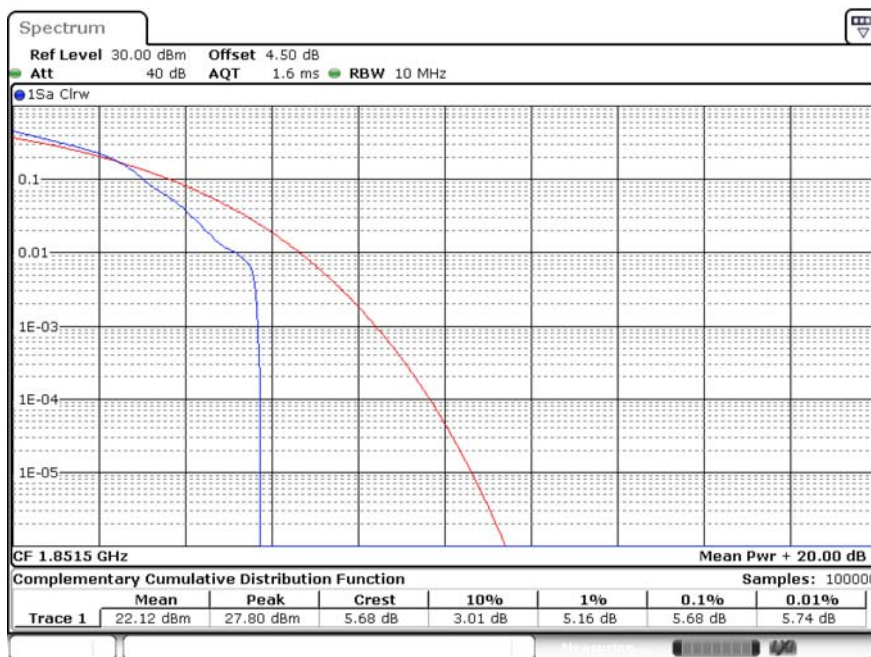
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Date: 16 JUN 2020 14:42:49

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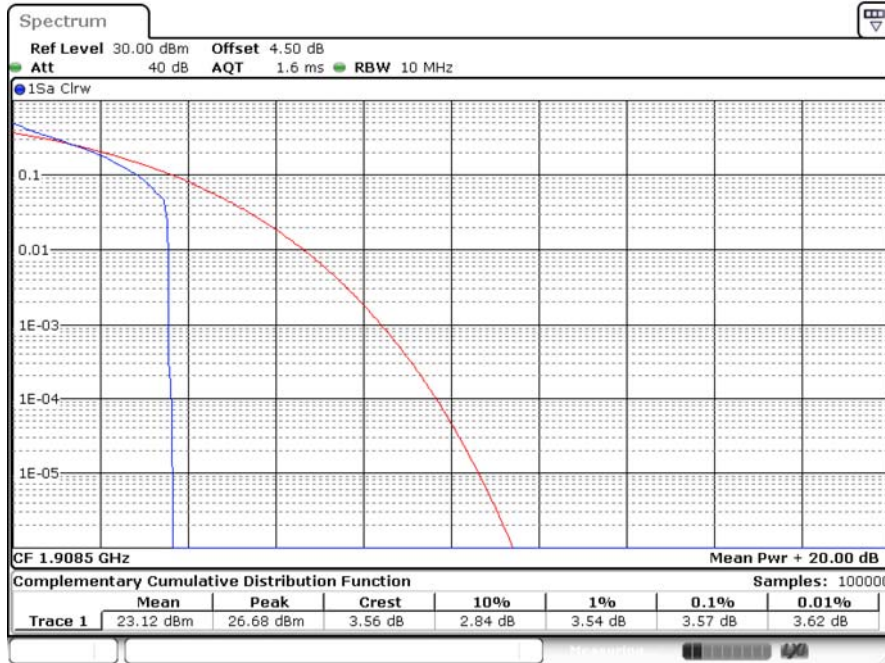
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Date: 16 JUN 2020 14:43:07

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Date: 16 JUN 2020 14:43:50

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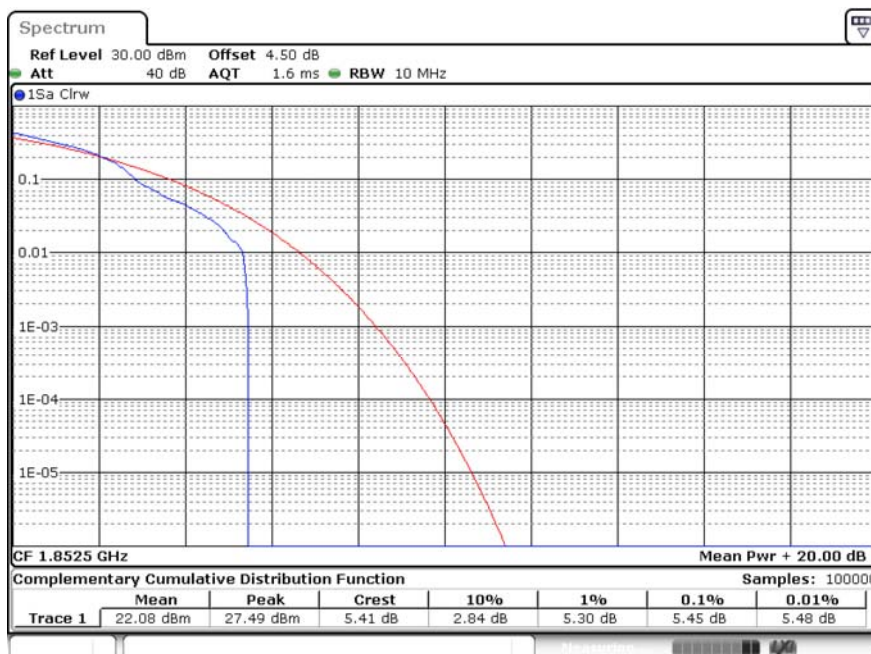
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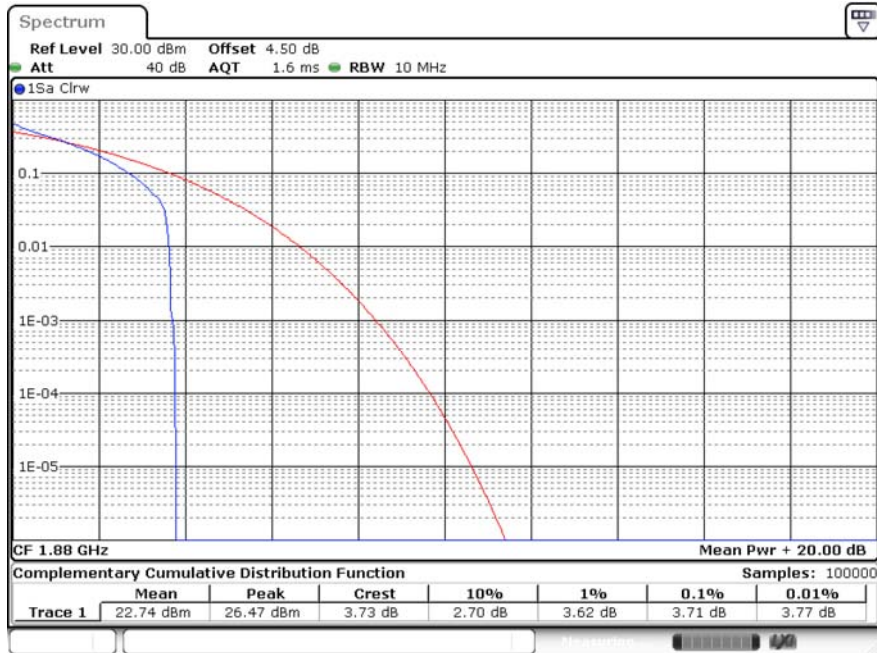
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Date: 16 JUN 2020 14:45:06

LTE_B2_CH18900_5M_QPSK_1RB0



Date: 16 JUN 2020 14:45:41

LTE_B2_CH18900_5M_16-QAM_1RB0



Date: 16 JUN 2020 14:45:28