



**FCC § 15.255 RF TEST REPORT
(CLASS 2 PERMISSIVE CHANGE)**

FOR

WirelessHD SOURCE MODULE INTEGRATED IN ENDOSCOPE

MODEL: XpressView Wireless Camera

FCC ID: 2AFNQ63102

REPORT NUMBER: 11501984-E1V2

ISSUE DATE: DECEMBER 20, 2016

Prepared for

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NVLAP LAB CODE 200065-0

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---|--------------|
| V1 | 12/06/2016 | Initial Issue | M. Heckrotte |
| V2 | 12/20/2016 | Revised 15.255 citations in accordance with new Rules | M. Heckrotte |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: TERADAK LLC.
8 MASON
IRVINE, CA 92618 U.S.A.

EUT DESCRIPTION: WirelessHD SOURCE MODULE INTEGRATED IN ENDOSCOPE

MODEL: XpressView Wireless Camera

SERIAL NUMBER: 00:D0:BD:A0:25:6A:00

DATE TESTED: NOVEMBER 18-21, 2016

| APPLICABLE STANDARDS | |
|----------------------|--------------|
| STANDARD | TEST RESULTS |
| §15.255 | Pass |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:



MICHAEL HECKROTTE
PRINCIPAL ENGINEER
UL Verification Services Inc.

Tested By:



STEVE AGUILAR
WiSE ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street | 47266 Benicia Street |
|------------------------------------|------------------------------------|
| <input type="checkbox"/> Chamber A | <input type="checkbox"/> Chamber D |
| <input type="checkbox"/> Chamber B | <input type="checkbox"/> Chamber E |
| <input type="checkbox"/> Chamber C | <input type="checkbox"/> Chamber F |
| | <input type="checkbox"/> Chamber G |

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|----------------|-------------|
| Radiated Power | ±0.55 dB |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF CLASS 2 PERMISSIVE CHANGE

The EUT is a WirelessHD Source radio module integrated into a portable end product Endoscope, operating at a source-based duty cycle of 22.6%.

The EUT transmits High Definition Audio/Video data on a single High Rate (HRP) channel at either 60.48 GHz or 62.64 GHz. The integral HRP transmit antenna is an adaptive beam-steering array with a maximum gain of 18 dBi.

The EUT transmits and receives control and management signals on one of five Low Rate (LRP) channels for each HRP channel. The integral LRP transmit/receive antenna is a scanning beam-steering array with a maximum gain of 16 dBi.

Operation in the MRP mode is not implemented.

5.2. OUTPUT POWER

The antenna is integral thus radiated measurements are made. The EIRP was measured at the worst-case condition, thus the EIRP measurement conditions correspond to the maximum EUT antenna gain. Therefore the maximum antenna gain is used to calculate the Peak Output Power.

The peak conducted output power for LRP is 25.7 mW (14.1 dBm).

The peak conducted output power for HRP is 17.0 mW (12.3 dBm).

5.3. SOFTWARE AND FIRMWARE

The test software used during testing was SWAM3

The test firmware used during testing was
SiliconImage Sil63XX_0.3, SOURCE-0.3, RF-Sil6310-A4, Pkg: SDK_3.4.12,
Ver.: 3_4_12_2015-10-29a_trunk_SVN54125_External_base_source,
Built: Oct 29 2015 23:48:29.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | |
|-----------------------------------|---------------|------------------------|----------------------------|-----------------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| Laptop | Lenovo | Thinkpad | L3-DBW6W | |
| Laptop Adapter | Lenovo | 42T4426 | 11S42T4426Z1ZF3F0 7G0UG | |
| HDMI LED Monitor + Adapter | Upstar | M240A2 | ZH157E000M00318 | |
| Debug Board | Paralinx | PXASR | -- | |
| WirelessHD Sink Receiver | Silicon Image | SII-SK63101 | 00:D0:BD:B0:22:33:00 | UK2-SII-SK63101 |
| Receiver 12 VDC Adapter | V-Infinity | EMSA 120050- PSP-SZ | -- | |
| 12 VDC Adapter | V-Infinity | EMSA120150- PSP-SZ | -- | |

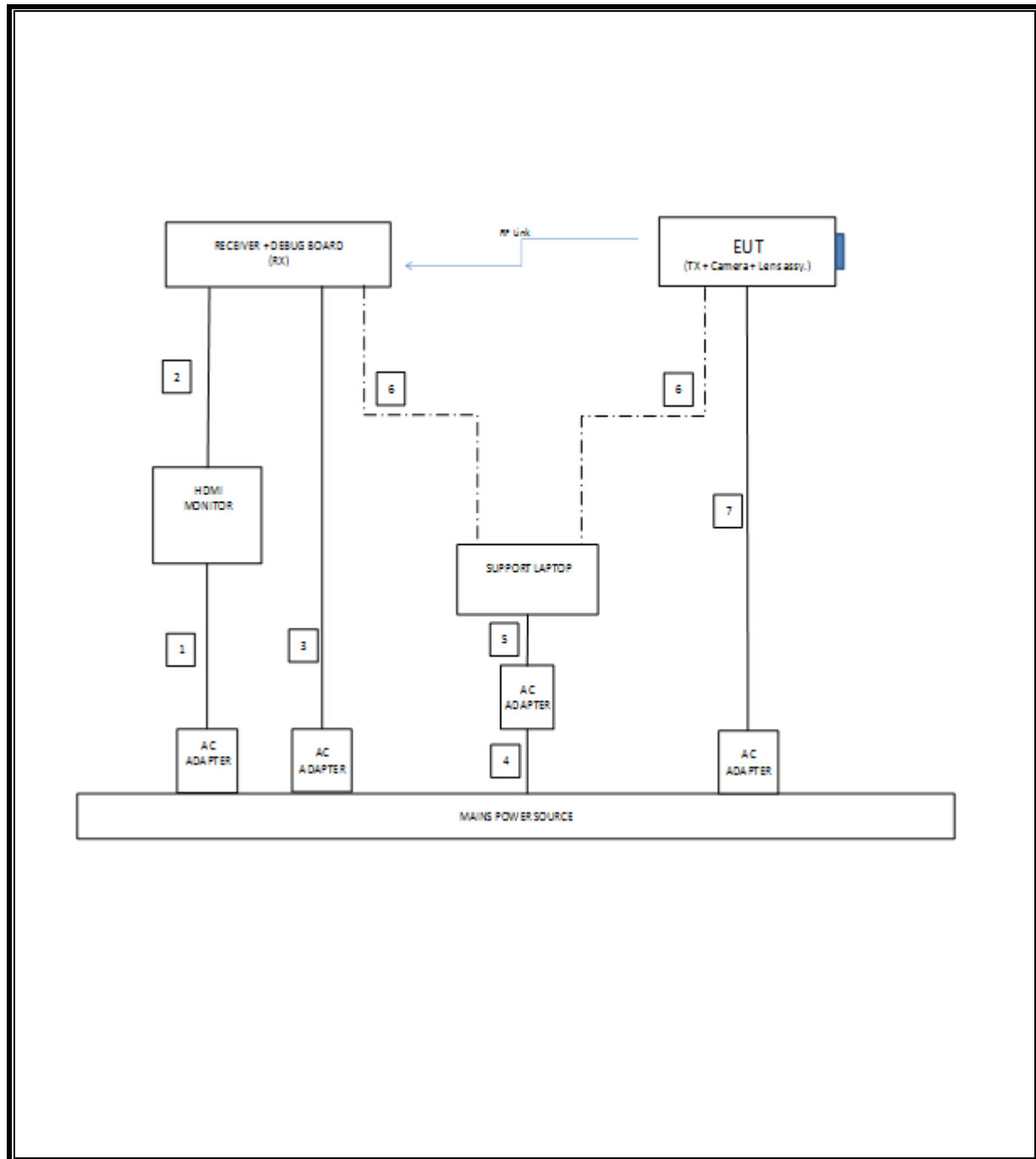
I/O CABLES

| I/O Cable List | | | | | | |
|----------------|-------|----------------------|----------------|------------|------------------|----------------------------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC | 1 | Barrel | Unshielded | 1.5 | HDMI Monitor adapter |
| 2 | VIDEO | 1 | HDMI | Shielded | 1.8 - 5 | -- |
| 3 | DC | 1 | Barrel | Unshielded | 1.5 | Receiver Adapter |
| 4 | AC | 1 | 3-Prong | Unshielded | 0.8 | Support Laptop |
| 5 | DC | 1 | Barrel | Shielded | 1.8 | Support Laptop |
| 6 | USB | 2 | USB | Shielded | 3 - 6 | For setting test mode only |
| 7 | DC | 1 | Barrel | Unshielded | 1 | EUT 12VDC Power |

TEST SETUP

A laptop computer was utilized to adjust the EUT for testing purposes. The EUT was set up in an operating link with a WirelessHD Sink support device, and continuously transmitting images.

SETUP DIAGRAM FOR TEST



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Test Equipment List | | | | |
|----------------------------------|-------------------|--------------|------------|-----------|
| Description | Manufacturer | Model | S/N | Cal Due |
| 50-75 GHz RF Detector | Millitech | DET-15-RPFWI | 41 | CNR |
| 50-75 GHz Isolator | Millitech | FBI-15-RSES0 | 1734 | CNR |
| 50-75 GHz Low Noise Amplifier | VIVAtech | VTLN-018-FB | 51 | 9/13/2017 |
| 57-66 GHz Low Noise Amplifier | Spacek | SL607-30-5W | 14JC4 | 9/13/2017 |
| 50-75 GHz 10 dB Attenuator | MiWave | 521V-10/385 | 1321 | 1/19/2017 |
| 50-75 GHz Horn Antenna | CMI | HO15R | N/A | 9/26/2017 |
| Low Pass Filter, 10MHz | Solar Electronics | 6623-10 | 136101 | 10/7/2017 |
| Oscilloscope 8 GHz 4 Ch DSO | Agilent | DSA90804A | MY51420139 | 9/6/2017 |
| Analog Signal Generator, 40 GHz | Agilent | E8257D | MY48050681 | 9/19/2017 |
| mmWave Source 50 - 75 GHz | OML | S15MS-AG | 80708-4 | CNR |
| Single Average Power Meter | Agilent | N1913A | MY53100006 | 8/8/2017 |
| 50-75 GHz Waveguide Power Sensor | Agilent | V8486A-H02 | MY52300008 | 8/25/2017 |
| Spectrum Analyzer, 50 GHz | Agilent | N9030A | MY52350427 | 8/31/2017 |
| Downconverter, 67 GHz | Agilent | MT463 | 12020 | 9/21/2017 |

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. DUTY CYCLE

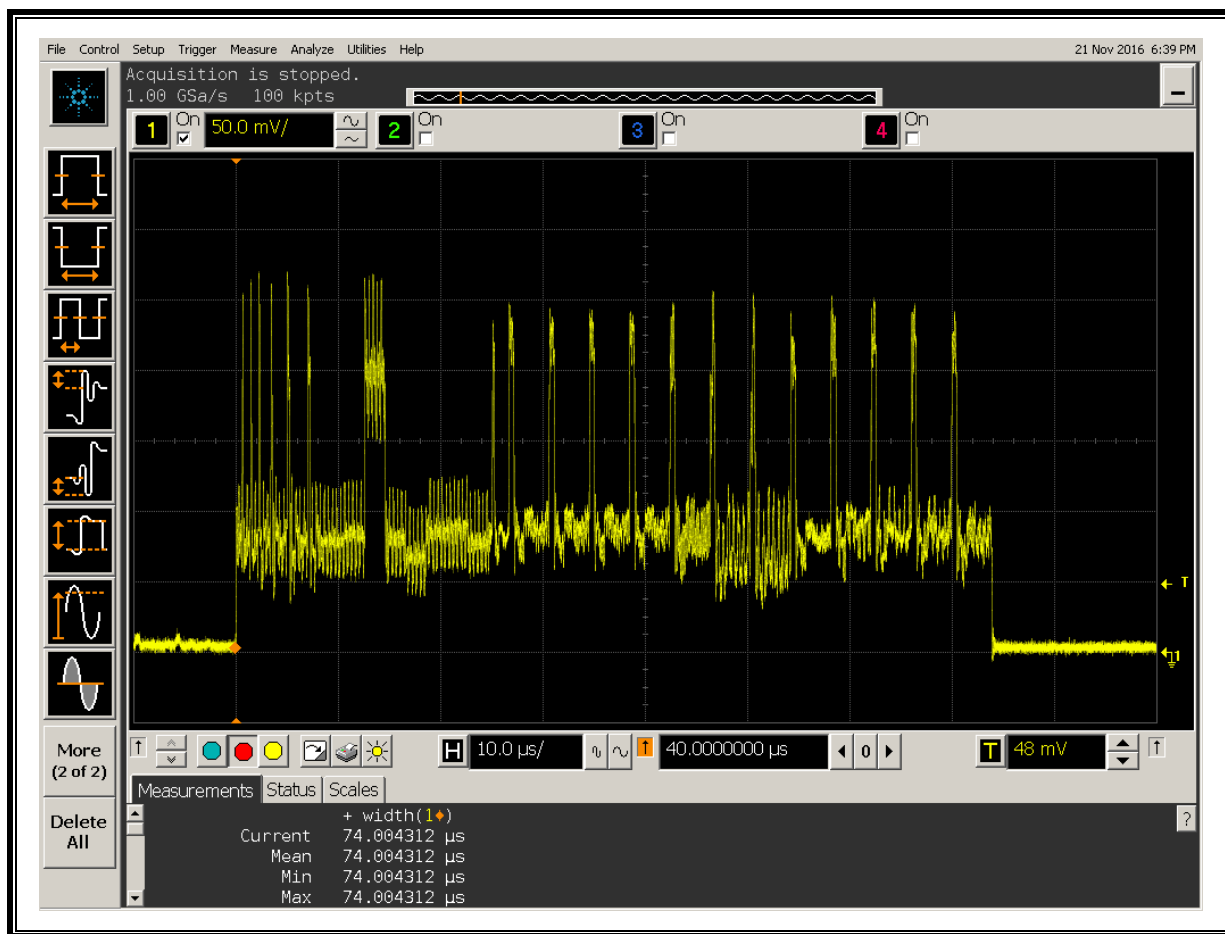
7.1.1. LRP DUTY CYCLE

LIMIT

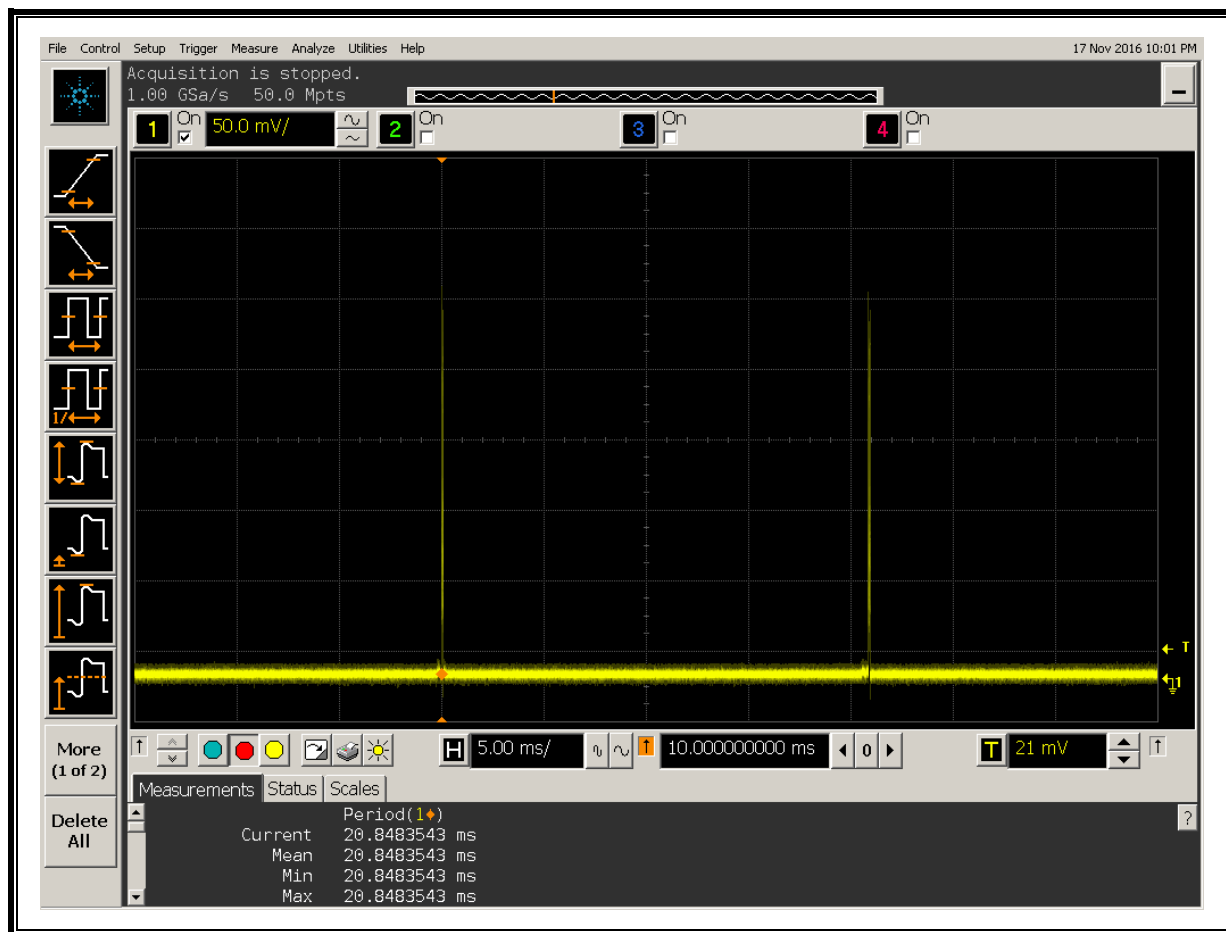
Reporting requirement only.

RESULTS

Duration of LRP Burst



Period between LRP Bursts



$$\text{LRP Duty Cycle} = \text{Burst Width} / \text{Period} = (74 \text{ us}) / (20.85 \text{ ms}) = 0.00355$$

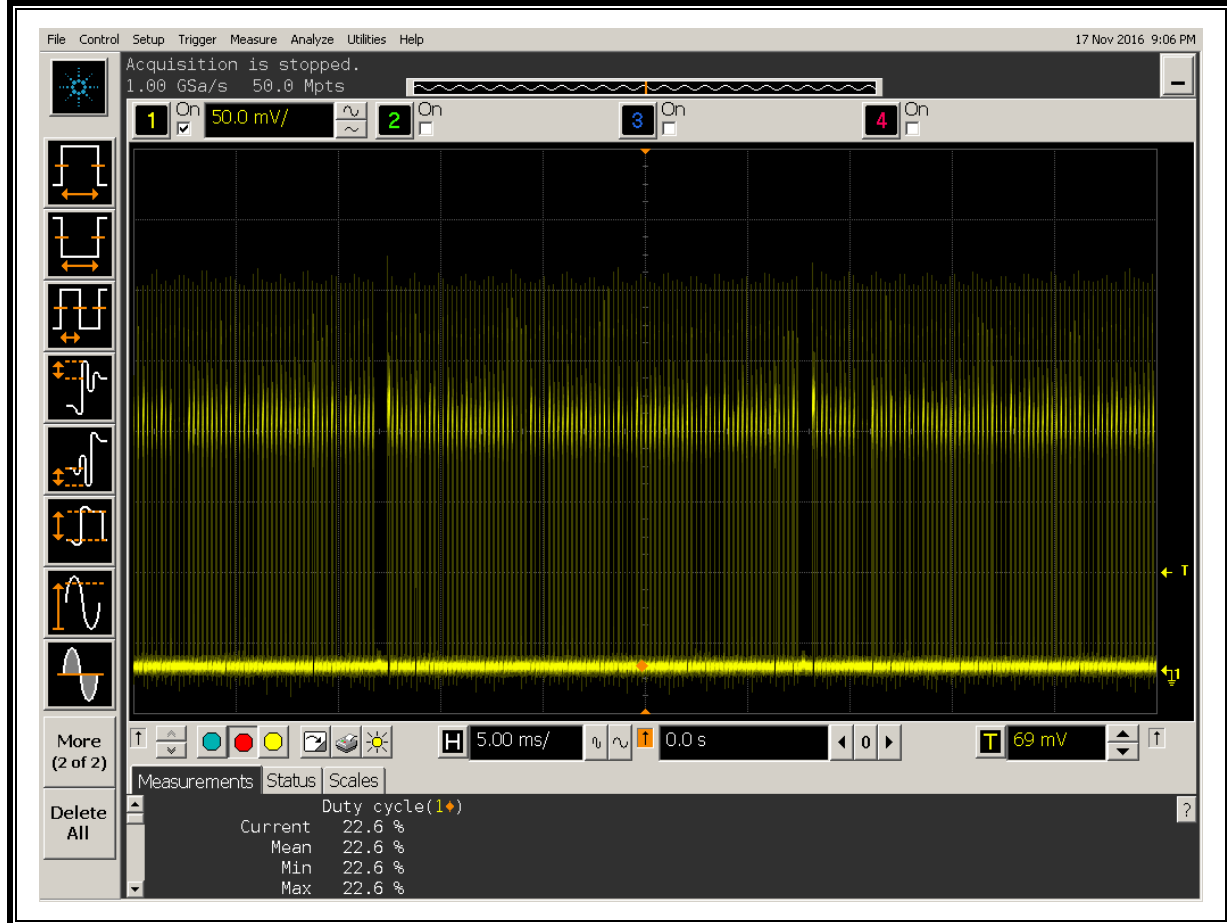
$$\text{Duty Cycle Correction Factor} = 10 * \text{Log} (\text{Duty Cycle}) = -24.5 \text{ dB}$$

7.1.2. HRP DUTY CYCLE

LIMIT

Reporting requirement only.

RESULTS



7.2. 6 dB BANDWIDTH

APPLICABLE RULE

§15.255 (d) (1) For the purposes of this paragraph (e)(1), emission bandwidth is defined as the instantaneous frequency range occupied by a steady state radiated signal with modulation, outside which the radiated power spectral density never exceeds 6 dB below the maximum radiated power spectral density in the band, as measured with a 100 kHz resolution bandwidth spectrum analyzer. The center frequency must be stationary during the measurement interval, even if not stationary during normal operation (e.g. for frequency hopping devices).

LIMIT

None; for reporting purposes only.

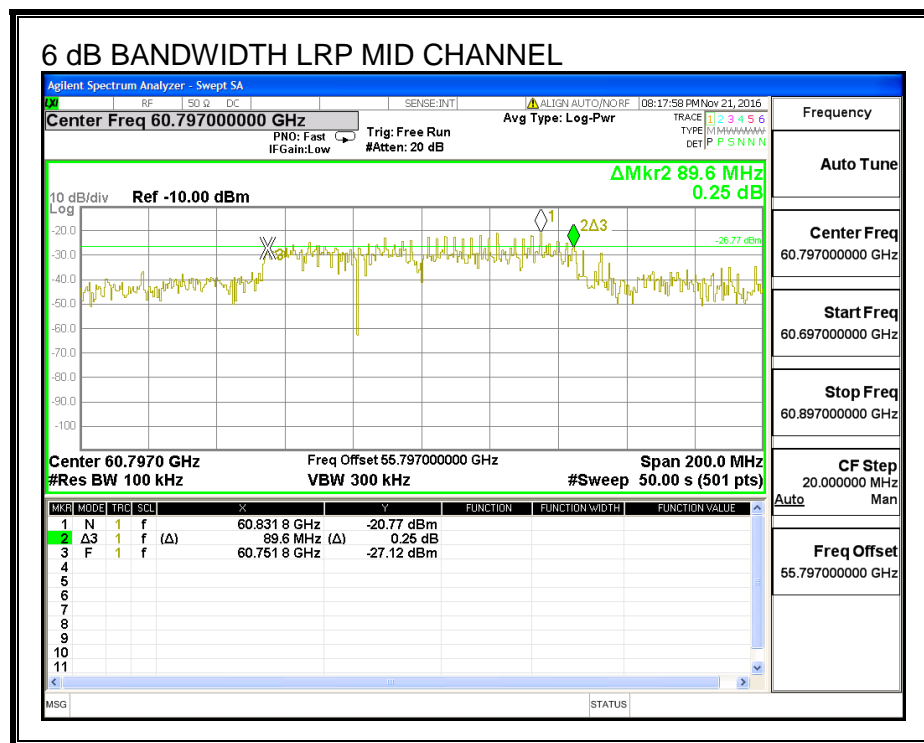
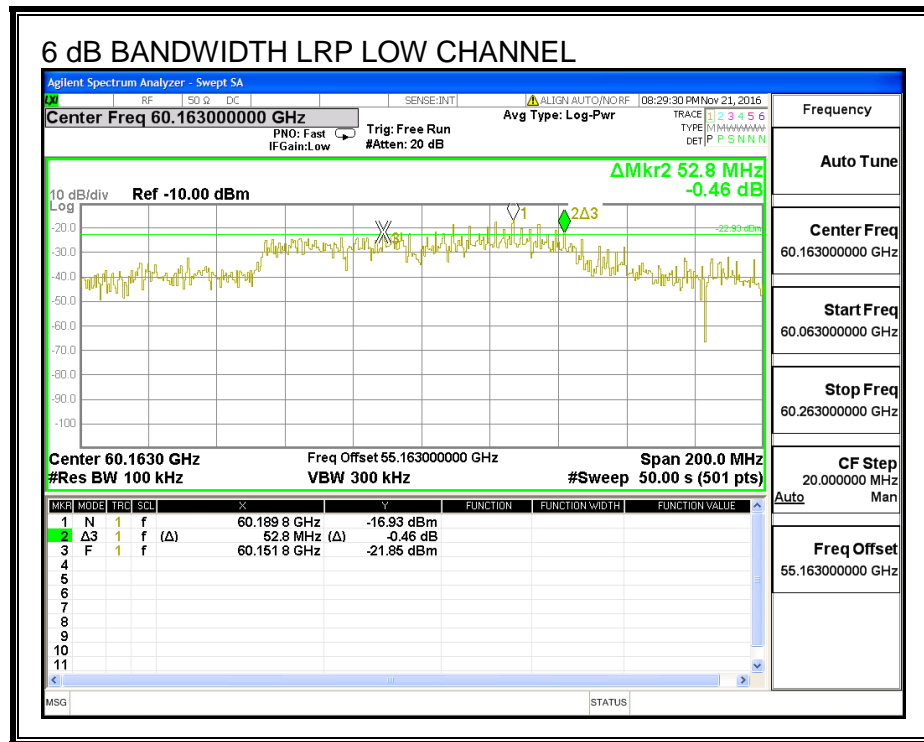
TEST PROCEDURE

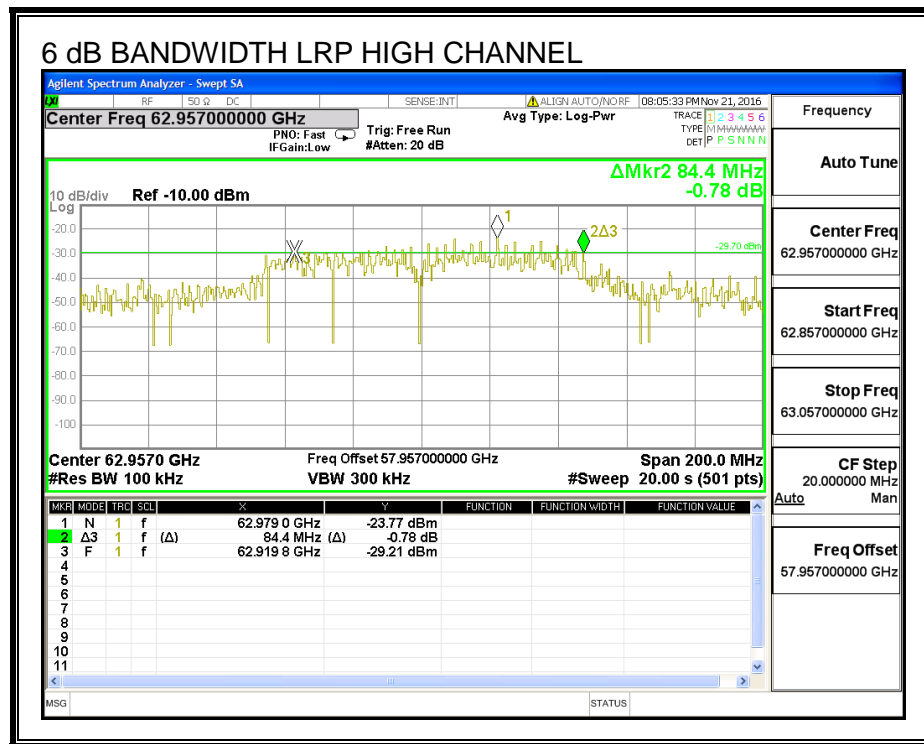
The spectrum analyzer and external mixer are set up to measure the radiated output of the transmitter.

7.2.1. Results for LRP Channels

| Channel | Frequency (GHz) | 6 dB Bandwidth (MHz) |
|---------|--------------------|-------------------------|
| LOW | 60.163 | 52.8 |
| MID | 60.797 | 89.6 |
| HIGH | 62.957 | 84.4 |

6 dB BANDWIDTH





| Channel | Frequency (GHz) | 6 dB Bandwidth (mHz) |
|---------|-----------------|----------------------|
| LOW | 60.48 | 1459.5 |
| HIGH | 62.64 | 1439.5 |

6 dB BANDWIDTH HRP LOW CHANNEL

Agilent Spectrum Analyzer - Swept SA

Center Freq 65.48000000 GHz

Frequency

Auto Tune

Center Freq 65.48000000 GHz

Start Freq 62.98000000 GHz

Stop Freq 67.98000000 GHz

CF Step 500.000000 MHz

Freq Offset 60.48000000 GHz

Ref -10.00 dBm

ΔMkr2 1.459 5 GHz -0.83 dB

Center 65.480 GHz

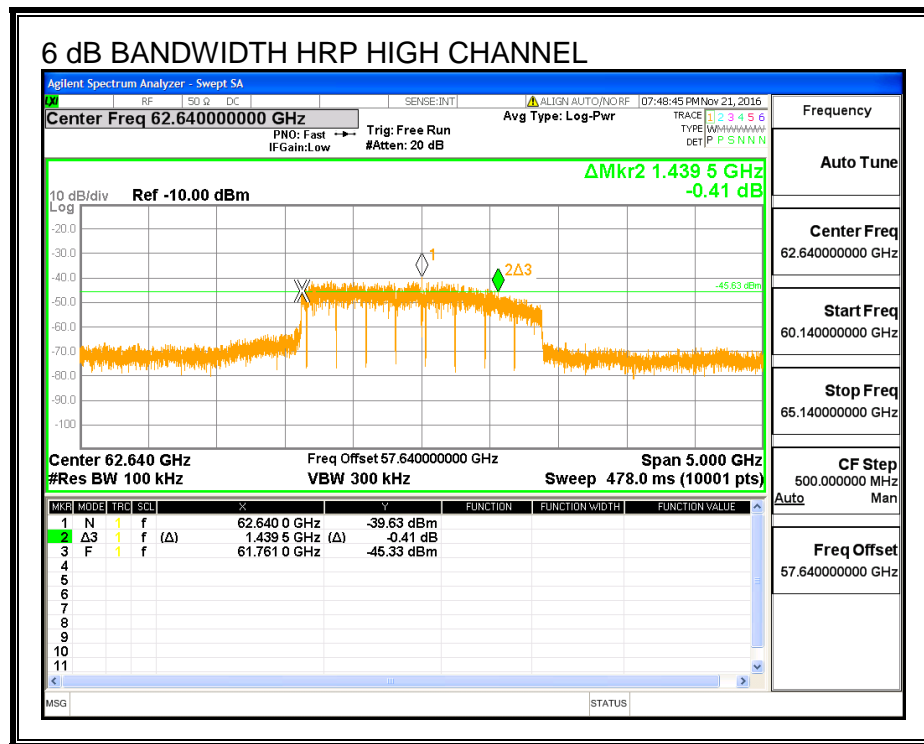
#Res BW 100 kHz

Freq Offset 60.48000000 GHz

Span 5.000 GHz

Sweep 478.0 ms (10001 pts)

| MKR | MODE | TRG | SEL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|-----------------|------------|----------|----------------|----------------|
| 1 | N | 1 | f | 65.098 5 GHz | -37.78 dBm | | | |
| 2 | Δ3 | 1 | f | 1.459 5 GHz (Δ) | -0.83 dB | | | |
| 3 | F | 1 | f | 64.601 5 GHz | -44.61 dBm | | | |



7.3. POWER DENSITY

LIMIT

§15.255 (b) (1) (i) Within the 57-71 GHz band, emission levels shall not exceed the following equivalent isotropically radiated power (EIRP): ... Products other than fixed field disturbance sensors and short-range devices for interactive motion sensing shall comply with ... the following emission limits, as measured during the transmit interval: ... The average power of any emission shall not exceed 40 dBm and the peak power of any emission shall not exceed 43 dBm ...

TEST PROCEDURE

C63.10

Measurements are made at a distance greater than or equal to the far field boundary distance. The measured power level is converted to EIRP using the Friis equation:

$$EIRP = P_T * G_T = (P_R / G_R) * (4 * \pi * D / \lambda)^2$$

where:

G_R is the gain of the receive measurement antenna

D is the measurement distance

λ is the wavelength

The EIRP is converted to Power Density using the equation:

$$P_D = EIRP / (4 * \pi * D_S^2)$$

where:

D_S is the specification distance

FAR FIELD BOUNDARY CALCULATIONS

The far-field boundary is given as:

$$R_{\text{far field}} = (2 * L^2) / \lambda$$

where:

L = Largest Antenna Dimension, including the reflector, in meters

λ = wavelength in meters

| Frequency (GHz) | L (m) | Lambda (m) | R (Far Field) (m) |
|--------------------|----------|---------------|----------------------|
| 60.48 | 0.01924 | 0.0050 | 0.15 |
| 62.64 | 0.01924 | 0.0048 | 0.15 |

LRP DUTY FACTOR FOR AVERAGE EIRP

Average voltage measurements are made across the entire 100 us scope time sweep, which encompasses a single LRP burst. The measured average voltage is corrected to yield the average voltage during the LRP ON time as follows:

Average Voltage Within the Burst

$$= (\text{Measured Average Voltage over Entire Sweep}) * ((\text{Sweep time}) / (\text{Burst Width}))$$

Substitution CW power measurements are based on the Average Voltage Within the Burst, then corrected for the LRP duty factor of 0.00355 (24.5 dB correction factor) to yield the average LRP power over the entire LRP period.

HRP DUTY FACTOR FOR AVERAGE EIRP

The 22.6% duty factor is included in the test signal. Average voltage measurements are made across multiple cycles of ON and OFF times.

Substitution CW power measurements were based on the Average voltage across multiple bursts, thus no correction for duty factor is made.

7.3.1. LRP Peak and Average Power Density

RESULTS

PEAK POWER - LRP Low Channel

| Frequency (GHz) | Measurement Distance (m) | Measured Peak Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|----------------------------------|----------------------------|---------------------------|----------------------------|
| 60.163 | 3.0 | 276.60 | -35.34 | 0.30 | -35.04 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 29.5 | 43.0 | -13.5 | | |

AVERAGE POWER - LRP Low Channel

| Frequency (GHz) | Measurement Distance (m) | Measured Average Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|-------------------------------------|----------------------------|---------------------------|----------------------------|
| 60.163 | 3.0 | 100.50 | -46.05 | 0.30 | -45.75 |
| Rx Antenna Gain (dBi) | EIRP Within Burst (dBm) | Duty Cycle Corr. Fact. (dB) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
| 13.00 | 18.8 | -24.5 | -5.7 | 40.0 | -45.7 |

PEAK POWER - LRP Mid Channel

| Frequency (GHz) | Measurement Distance (m) | Measured Peak Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|----------------------------------|----------------------------|---------------------------|----------------------------|
| 60.797 | 3.0 | 297.80 | -34.85 | 0.30 | -34.55 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 30.1 | 43.0 | -12.9 | | |

AVERAGE POWER - LRP Mid Channel

| Frequency (GHz) | Measurement Distance (m) | Measured Average Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|-------------------------------------|----------------------------|---------------------------|----------------------------|
| 60.797 | 3.0 | 115.70 | -45.58 | 0.30 | -45.28 |
| Rx Antenna Gain (dBi) | EIRP Within Burst (dBm) | Duty Cycle Corr. Fact. (dB) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
| 13.00 | 19.4 | -24.5 | -5.1 | 40.0 | -45.1 |

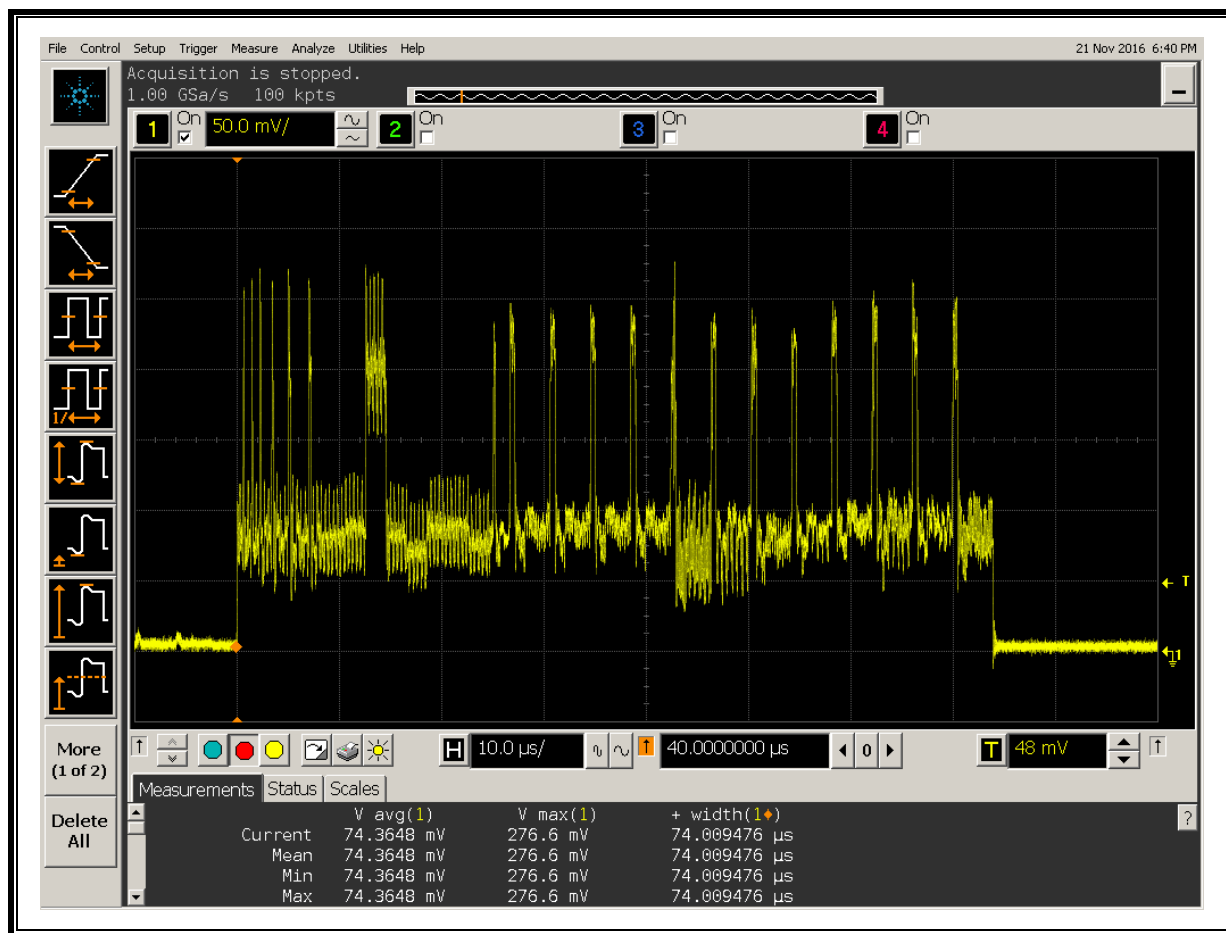
PEAK POWER - LRP High Channel

| Frequency (GHz) | Measurement Distance (m) | Measured Peak Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|----------------------------------|----------------------------|---------------------------|----------------------------|
| 62.957 | 3.0 | 192.60 | -41.19 | 0.30 | -40.89 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 24.1 | 43.0 | -18.9 | | |

AVERAGE POWER - LRP High Channel

| Frequency (GHz) | Measurement Distance (m) | Measured Average Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|-------------------------------------|----------------------------|---------------------------|----------------------------|
| 62.957 | 3.0 | 53.16 | -47.85 | 0.30 | -47.55 |
| Rx Antenna Gain (dBi) | EIRP Within Burst (dBm) | Duty Cycle Corr. Fact. (dB) | EIRP (dBm) | Limit (dBm) | Margin (dBm) |
| 13.00 | 17.4 | -24.5 | -7.1 | 40.0 | -47.1 |

LRP Low Channel Peak and Average Voltages



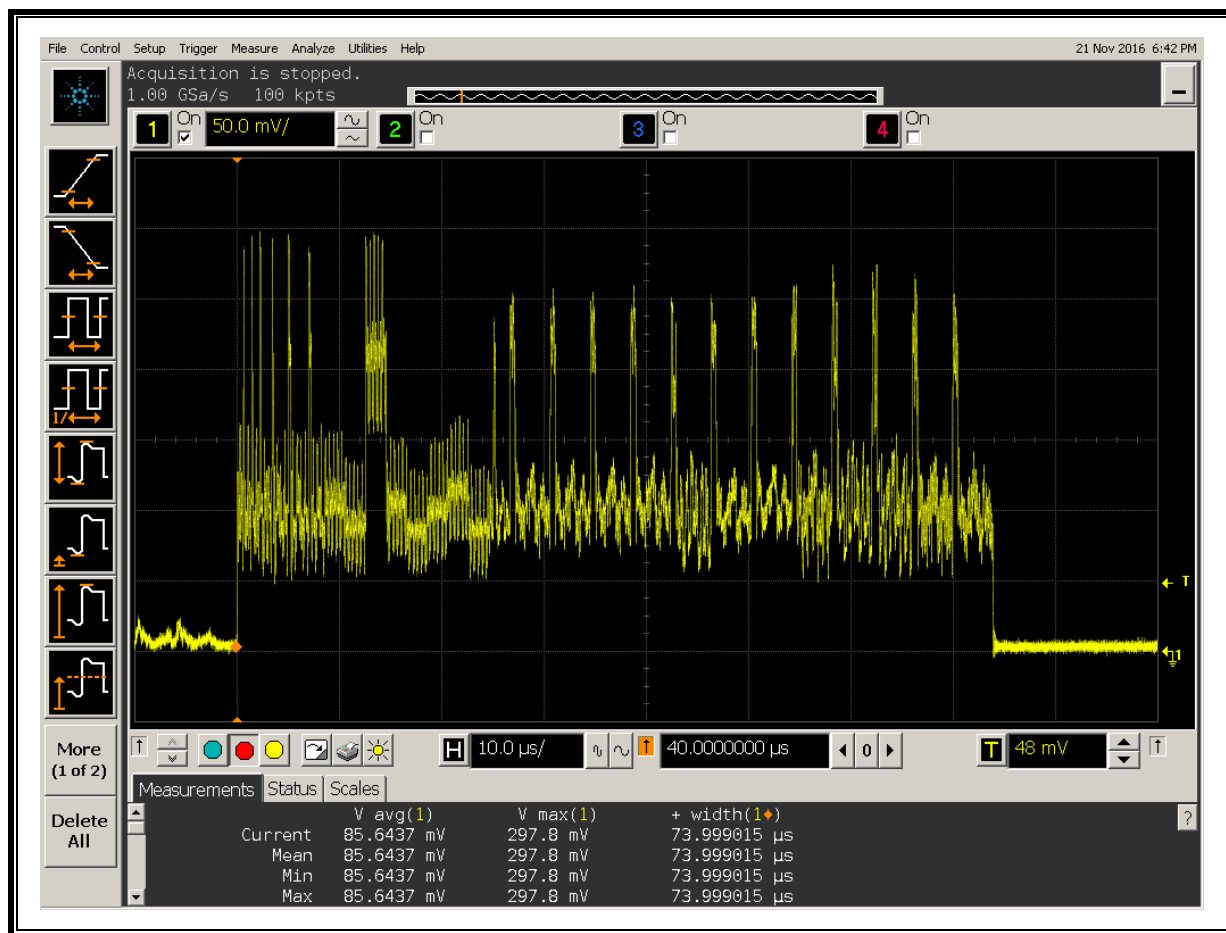
Average Voltage Within the Burst

$$= (\text{Measured Average Voltage over Entire Sweep}) * ((\text{Sweep time}) / (\text{Burst Width}))$$

$$= 74.36 * (100 / 74)$$

$$= 100.5 \text{ mV}$$

LRP Mid Channel Peak and Average Voltages



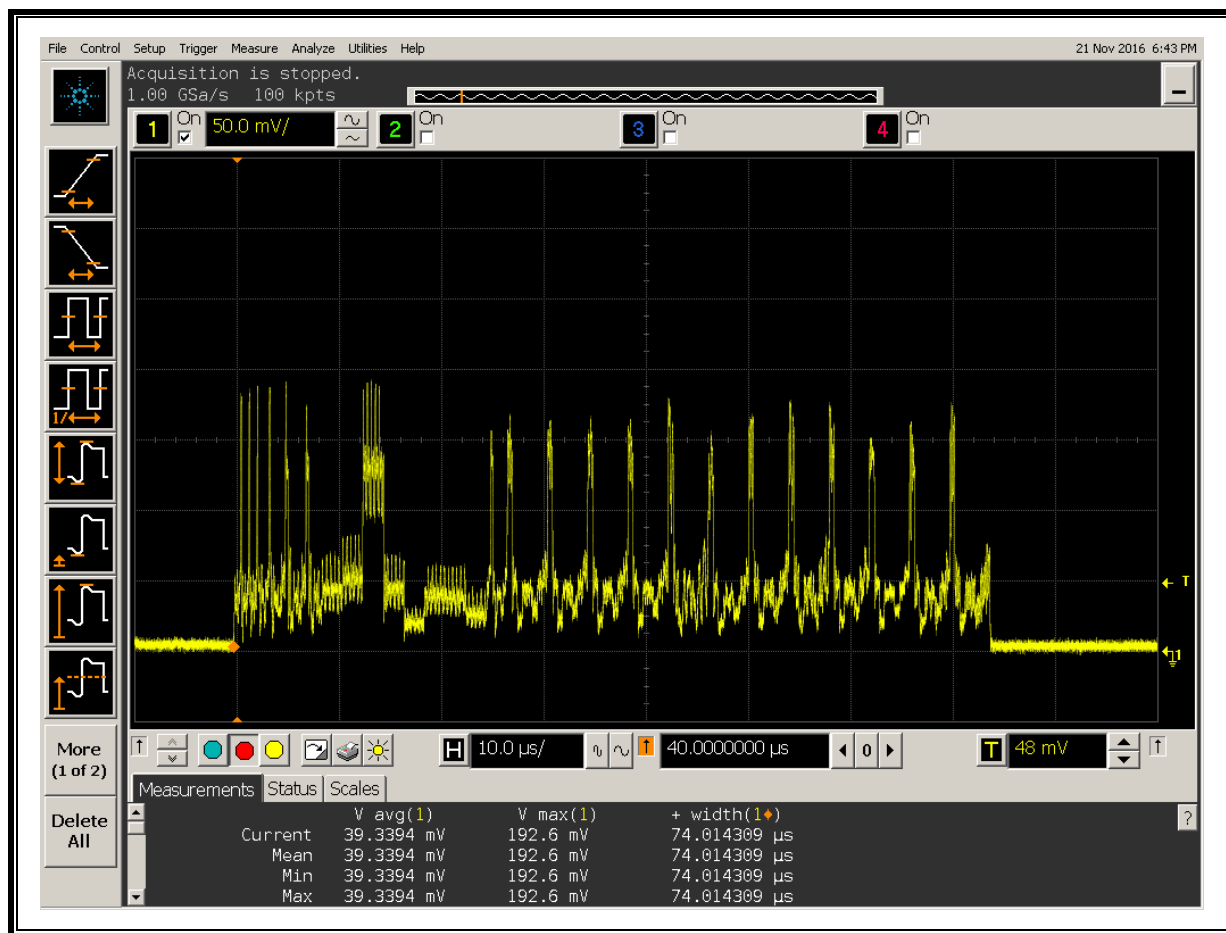
Average Voltage Within the Burst

$$= (\text{Measured Average Voltage over Entire Sweep}) * ((\text{Sweep time}) / (\text{Burst Width}))$$

$$= 85.64 * (100 / 74)$$

$$= 115.7 \text{ mV}$$

LRP High Channel Peak and Average Voltages



Average Voltage Within the Burst
 = (Measured Average Voltage over Entire Sweep) * ((Sweep time) / (Burst Width))
 = 39.34 * (100 / 74)
 = 53.16 mV

7.3.2. HRP Peak and Average Power Density

RESULTS

PEAK POWER - HRP Low Channel 2

| Frequency (GHz) | Measurement Distance (m) | Measured Peak Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|----------------------------------|----------------------------|---------------------------|----------------------------|
| 60.48 | 3.0 | 299.40 | -34.60 | 0.30 | -34.30 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 30.3 | 43.0 | -12.7 | | |

AVERAGE POWER - HRP Low Channel 2

| Frequency (GHz) | Measurement Distance (m) | Measured Average Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|-------------------------------------|----------------------------|---------------------------|----------------------------|
| 60.48 | 3.0 | 35.37 | -50.00 | 0.30 | -49.70 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 14.9 | 40.0 | -25.1 | | |

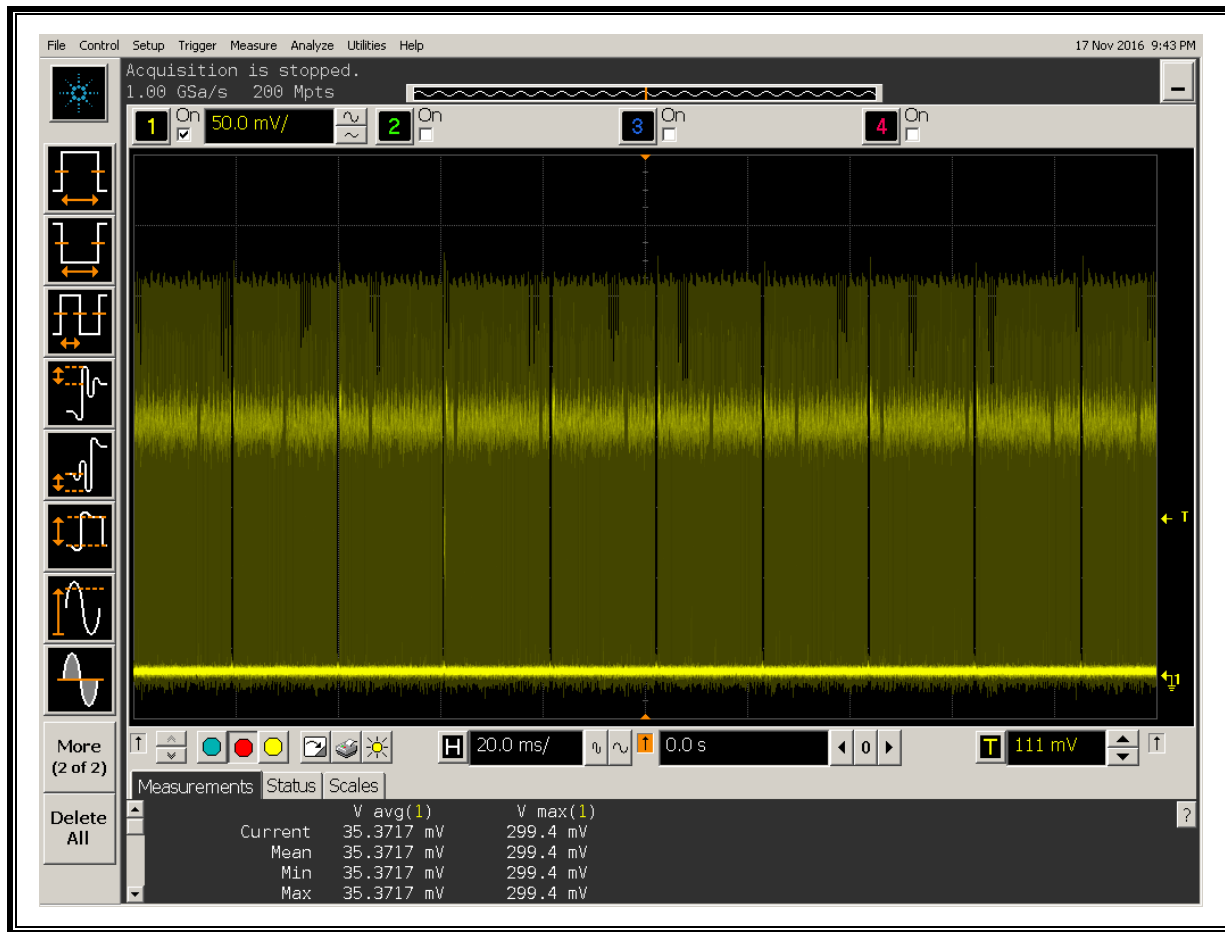
PEAK POWER - HRP High Channel 3

| Frequency (GHz) | Measurement Distance (m) | Measured Peak Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|----------------------------------|----------------------------|---------------------------|----------------------------|
| 62.64 | 3.0 | 284.70 | -35.40 | 0.30 | -35.10 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 29.8 | 43.0 | -13.2 | | |

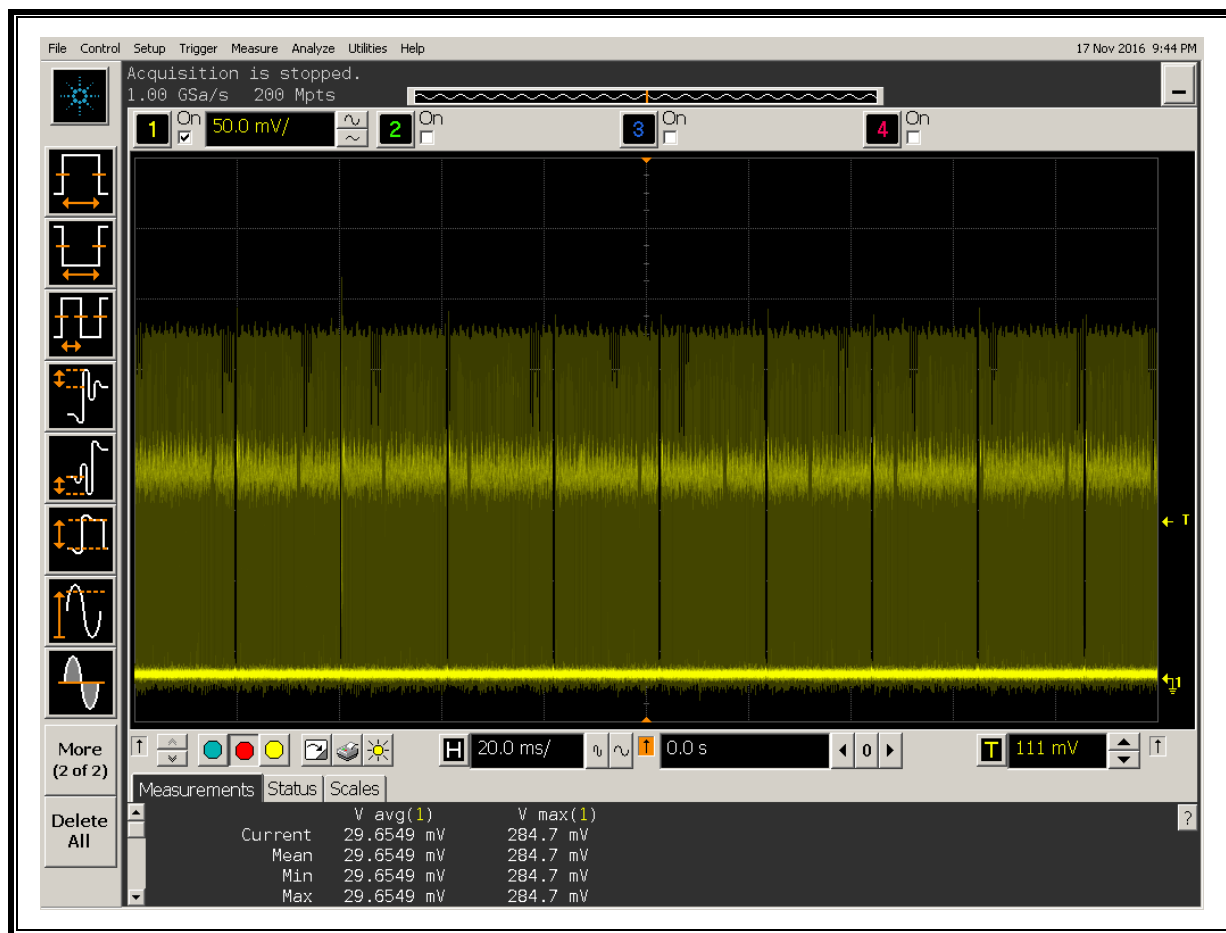
AVERAGE POWER - HRP High Channel 3

| Frequency (GHz) | Measurement Distance (m) | Measured Average Voltage (mV) | Measured Power (dBm) | Waveguide Loss (dB) | Received Power (dBm) |
|-----------------------------|--------------------------------|-------------------------------------|----------------------------|---------------------------|----------------------------|
| 62.64 | 3.0 | 29.65 | -50.50 | 0.30 | -50.20 |
| Rx Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dBm) | | |
| 13.00 | 14.7 | 40.0 | -25.3 | | |

HRP Low Channel 2 Peak and Average Voltages



HRP High Channel 3 Peak and Average Voltages



7.4. PEAK OUTPUT POWER

LIMIT

§15.255 (d) Except as specified paragraph (d)(1) of this section, the peak transmitter conducted output power shall not exceed 500 mW. Depending on the gain of the antenna, it may be necessary to operate the intentional radiator using a lower peak transmitter output power in order to comply with the EIRP limits specified in paragraph (b) of this section.

§15.255 (d) (1) Transmitters with an emission bandwidth of less than 100 MHz must limit their peak transmitter conducted output power to the product of 500 mW times their emission bandwidth divided by 100 MHz. For the purposes of this paragraph, emission bandwidth is defined as the instantaneous frequency range occupied by a steady state radiated signal with modulation, outside which the radiated power spectral density never exceeds 6 dB below the maximum radiated power spectral density in the band, as measured with a 100 kHz resolution bandwidth spectrum analyzer. The center frequency must be stationary during the measurement interval, even if not stationary during normal operation (e.g., for frequency hopping devices).

PROCEDURE

The maximum EUT antenna gain is subtracted from the Peak EIRP.

RESULTS

| Mode | Frequency (GHz) | Peak EIRP (dBm) | EUT Antenna Gain (dBi) | Output Power (dBm) | Output Power (mW) | 6 dB Bandwidth (MHz) | Output Power Limit (mW) |
|------|--------------------|-----------------------|---------------------------------|--------------------------|-------------------------|----------------------------|----------------------------------|
| LRP | 60.163 | 29.5 | 16.00 | 13.50 | 22.4 | 52.8 | 264 |
| LRP | 60.797 | 30.1 | 16.00 | 14.10 | 25.7 | 89.6 | 448 |
| LRP | 62.957 | 24.1 | 16.00 | 8.10 | 6.5 | 84.4 | 422 |
| HRP | 60.48 | 30.3 | 18.00 | 12.30 | 17.0 | 1459.5 | 500 |
| HRP | 62.64 | 29.8 | 18.00 | 11.80 | 15.1 | 1439.5 | 500 |