



FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

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Prepared for

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| V1 | 4/20/2016 | Initial issue | C. OOI |
| V2 | 4/25/2016 | Updated Output Power, Device Serial Numbers and Section 6. | C. OOI |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SONY MOBILE COMMUNICATIONS, INC.

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

SERIAL NUMBER: Z0ZW, CB5129YMBE, CB5129YM7A

DATE TESTED: APRIL 18 - 20, 2016

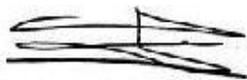
| APPLICABLE STANDARDS | |
|--------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart C | Pass |

UL LLC reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL LLC shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL LLC issued reports. 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.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

Approved & Released For
UL LLC. By:

Prepared By:



FRANK IBRAHIM
CONSUMER TECHNOLOGY DIVISION
Program Manager

CHOON OOI
CONSUMER TECHNOLOGY DIVISION
WISE PROJECT LEAD

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC and ANSI C63.10-2013, FCC CFR 47 Part 2, and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Dr., Research Triangle Park, NC 27709, USA and 2800 Suite B, Perimeter Park Drive, Morrisville, NC 27560.

| |
|------------------------------------|
| 12 Laboratory Dr., RTP, NC 27709 |
| <input type="checkbox"/> Chamber A |
| <input type="checkbox"/> Chamber C |

| |
|---|
| 2800 Suite B Perimeter Park Dr., Morrisville, NC 27560 |
| <input type="checkbox"/> Chamber NORTH |
| <input checked="" type="checkbox"/> Chamber SOUTH |

The onsite chambers are covered under Industry Canada company address code 2180C with site numbers 2180C -1 through 2180C-4, respectively.

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0. The full scope of accreditation can be viewed at <http://www.nist.gov/nvlap/>

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. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

| PARAMETER | | UNCERTAINTY |
|---------------------------------------|-----|-------------|
| Total RF power, conducted | +/- | 0.45 |
| RF power density, conducted | +/- | 1.50 |
| Spurious emissions, conducted | +/- | 2.94 |
| All emissions, radiated up to 26 GHz | +/- | 5.36 |
| Temperature | +/- | 0.07 |
| Humidity | +/- | 2.26 |
| DC and low frequency voltages | +/- | 1.27 |
| Conducted Disturbance, 0.15 to 30 MHz | +/- | 2.37 |

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

| Frequency Range (MHz) | Mode | Output Power (dBm) | Output Power (mW) |
|-----------------------|---------------|--------------------|-------------------|
| 2402 - 2480 | Basic GFSK | 10.31 | 10.74 |
| 2402 - 2480 | Enhanced 8PSK | 8.88 | 7.73 |

Note: GFSK, Pi/4-DQPSK, 8PSK average Power are all investigated, The GFSK & 8PSK Power are the worst case. Testing is based on this mode of showing compliance. For average power data, please refer to section 8.7.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes integrated antenna, with a maximum as below:

| Frequency (MHz) | Antenna Gain (dBi) |
|-----------------|--------------------|
| 2.402 | -7.0 |
| 2.441 | -6.2 |
| 2.480 | -6.9 |

5.4. SOFTWARE AND FIRMWARE

The firmware/SW installed in the EUT during testing was SONY, s_atp_xxxx_1_600_7_9

The hardware version was A

The test utility software used during testing was Tera Term, rev 4.8.3(SVN#5602)

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit on the channel with higher output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z it was determined that Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------|--------------|-------------------|------------------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| AC Adapter | SONY | UCH 20 1295-70821 | N/A | N/A |
| Earphone | SONY | MH410C | N/A | N/A |
| Laptop | Lenovo | T450 | PC-0A2UQU | N/A |
| Laptop AC Adapter | Lenovo | ADLX65NLC2A | 11S45N0263Z1ZS995256HR | N/A |

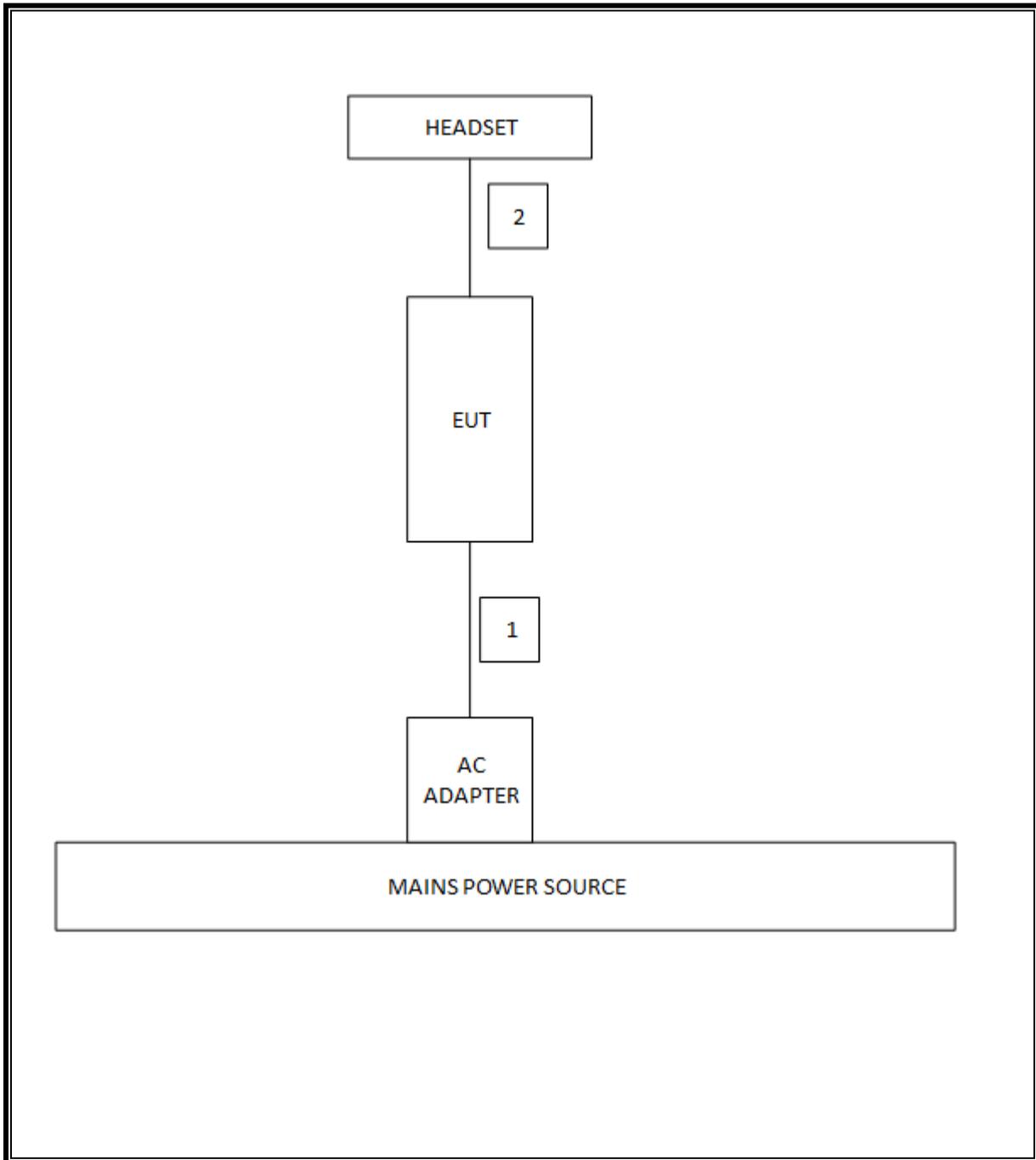
I/O CABLES

| I/O Cable List | | | | | | |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC Power | 1 | Mini-USB | Shielded | 1m | N/A |
| 2 | Audio | 1 | Mini-Jack | Unshielded | 1.5m | N/A |

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests. EUT was set in the Hidden menu mode to enable BLE communications.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

| Equip. ID | Description | Manufacturer | Model Number | Last Cal. | Next Cal. |
|------------------------------|---|----------------------|------------------------|------------|------------|
| | 0.009-30MHz | (Loop Ant.) | | | |
| AT0079 | Active Loop Antenna | ETS-Lindgren | 6502 | 2015-12-08 | 2016-12-31 |
| | 30-1000 MHz | | | | |
| AT0074 | Hybrid Broadband Antenna | Sunol Sciences Corp. | JB3 | 2015-06-10 | 2016-06-30 |
| | 1-18 GHz | | | | |
| AT0067 (02/28-03/17/2016) | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren | 3117 | 2015-03-12 | 2016-03-31 |
| AT0069 (As of 03/18/2016) | Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz | ETS Lindgren | 3117 | 2016-03-07 | 2017-03-31 |
| | 18-40 GHz | | | | |
| AT0076 | Horn Antenna, 18-26.5GHz | ARA | MWH-1826/B | 2015-08-27 | 2016-08-31 |
| AT0077 | Horn Antenna, 26-40GHz | ARA | MWH-2640/B | 2015-08-27 | 2016-08-31 |
| | Tuned Dipole Set | | | | |
| AT0013-AT0016 | Four Dipole Antenna Set, 30 to 1000 MHz | EMCO | 3121C-DB-1, -2, -3, -4 | 2015-05-06 | 2016-05-31 |
| | Gain-Loss Chains | | | | |
| S-SAC01 | Gain-loss string: 0.009-30MHz | Various | Various | 2015-10-07 | 2016-10-31 |
| S-SAC02 | Gain-loss string: 30-1000MHz | Various | Various | 2015-06-09 | 2016-06-30 |
| S-SAC03 | Gain-loss string: 1-18GHz | Various | Various | 2015-08-22 | 2016-08-31 |
| S-SAC04 | Gain-loss string: 18-40GHz | Various | Various | 2016-02-29 | 2017-02-28 |
| | Receiver & Software | | | | |
| SA0025 | Spectrum Analyzer | Agilent | N9030A | 2016-03-17 | 2017-03-31 |
| SA0026 (18-40GHz RSE) | Spectrum Analyzer | Agilent | N9030A | 2016-02-24 | 2017-02-28 |
| SOFTEMI | EMI Software | UL | Version 9.5 | NA | NA |
| | Additional Equipment used | | | | |

| Equip. ID | Description | Manufacturer | Model Number | Last Cal. | Next Cal. |
|-----------|---------------------------|--------------|--------------|------------|------------|
| HI0050 | Temp/Humid/Pressure Meter | Cole-Parmer | 99760-00 | 2015-07-01 | 2016-07-31 |

| Equipment ID | Description | Manufacturer | Model Number | Last Cal. | Next Cal. |
|--------------|--|------------------------|--------------|------------|------------|
| | Conducted Room 1 | | | | |
| SA0019 | Spectrum Analyzer | Agilent Technologies | E4446A | 2015-09-02 | 2016-09-30 |
| PWM004 | RF Power Meter | Keysight Technologies | N1911A | 2015-06-08 | 2016-06-08 |
| PWS004 | Peak and Avg Power Sensor, 50MHz to 6GHz | Keysight Technologies | E9323A | 2015-06-05 | 2016-06-05 |
| HI0079 | Temp/Humid/Pressure Meter | Springfield | PreciseTemp | 2015-07-1 | 2016-07-31 |
| MM0167 | True RMS Multimeter | Agilent | U1232A | 2015-08-17 | 2016-08-31 |
| 76022 | DC Regulated Power Supply | CircuitSpecialists.Com | CSI3005X5 | NA | NA |
| T1023 | EMPower USB RF Power Sensor, 10MHz to 6GHz | ETS Lindgren | 7002-006 | 2015-10-01 | 2016-10-01 |

| Test Software List | | | |
|-----------------------|--------------|--------|-----------------------|
| Description | Manufacturer | Model | Version |
| Radiated Software | UL | UL EMC | Ver 9.5, Aug 20, 2015 |
| Conducted Software | UL | UL EMC | Ver 9.5, Aug 20, 2015 |
| Antenna Port Software | UL | UL RF | Ver 4.3, Mar 16, 2016 |

7. SUMMARY TABLE

| FCC Part Section | RSS Section(s) | Test Description | Test Limit | Test Condition | Test Result |
|---------------------------|----------------|---|---------------------------------------|----------------|-------------|
| 2.1049 | RSS-GEN 6.6 | Occupied Bandwidth (99%) | N/A | Conducted | Pass |
| 2.1051, 15.247 (d) | RSS-247 5.5 | Band Edge / Conducted Spurious Emission | -20dBc | | Pass |
| 15.247 (b)(1) | RSS-247 5.4.2 | TX conducted output power | <21dBm | | Pass |
| 15.247 (a)(1) | RSS-247 5.1.2 | Hopping frequency separation | > 25KHz | | Pass |
| 15.247 (a)(1)(iii) | RSS-247 5.1.4 | Number of Hopping Channels | More than 15 non-overlapping channels | | Pass |
| 15.247 (a)(1)(iii) | RSS-247 5.1.4 | Avg Time of Occupancy | < 0.4sec | | Pass |
| 15.207 (a) | RSS-GEN 8.8 | AC Power Line conducted emissions | Section 10 | Radiated | Pass |
| 15.205, 15.209, 15.247(d) | RSS-GEN 8.9/7 | Radiated Spurious Emission | < 54dBuV/m | | Pass |

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME, DUTY CYCLE

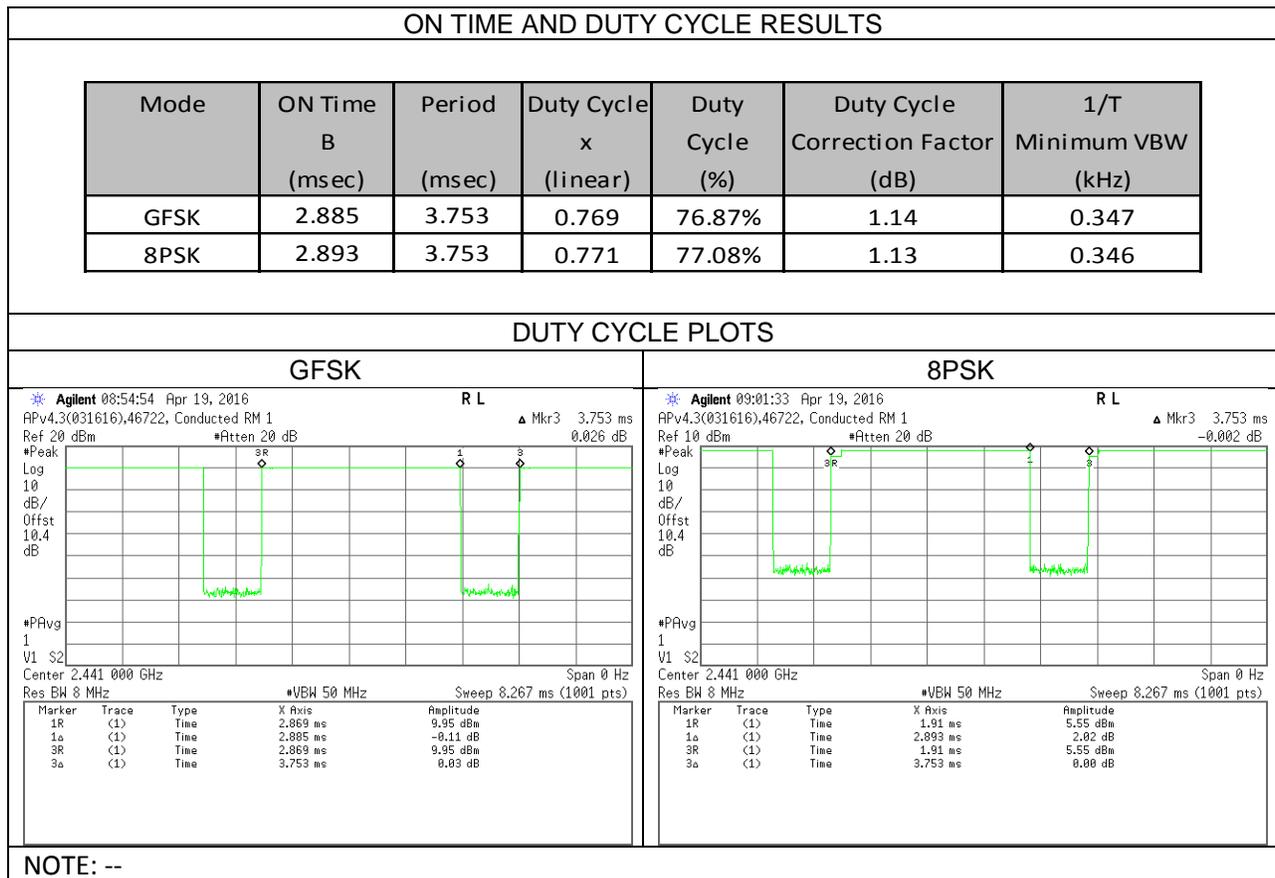
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

RESULTS



8.2. 20 dB AND 99% BANDWIDTH

LIMIT

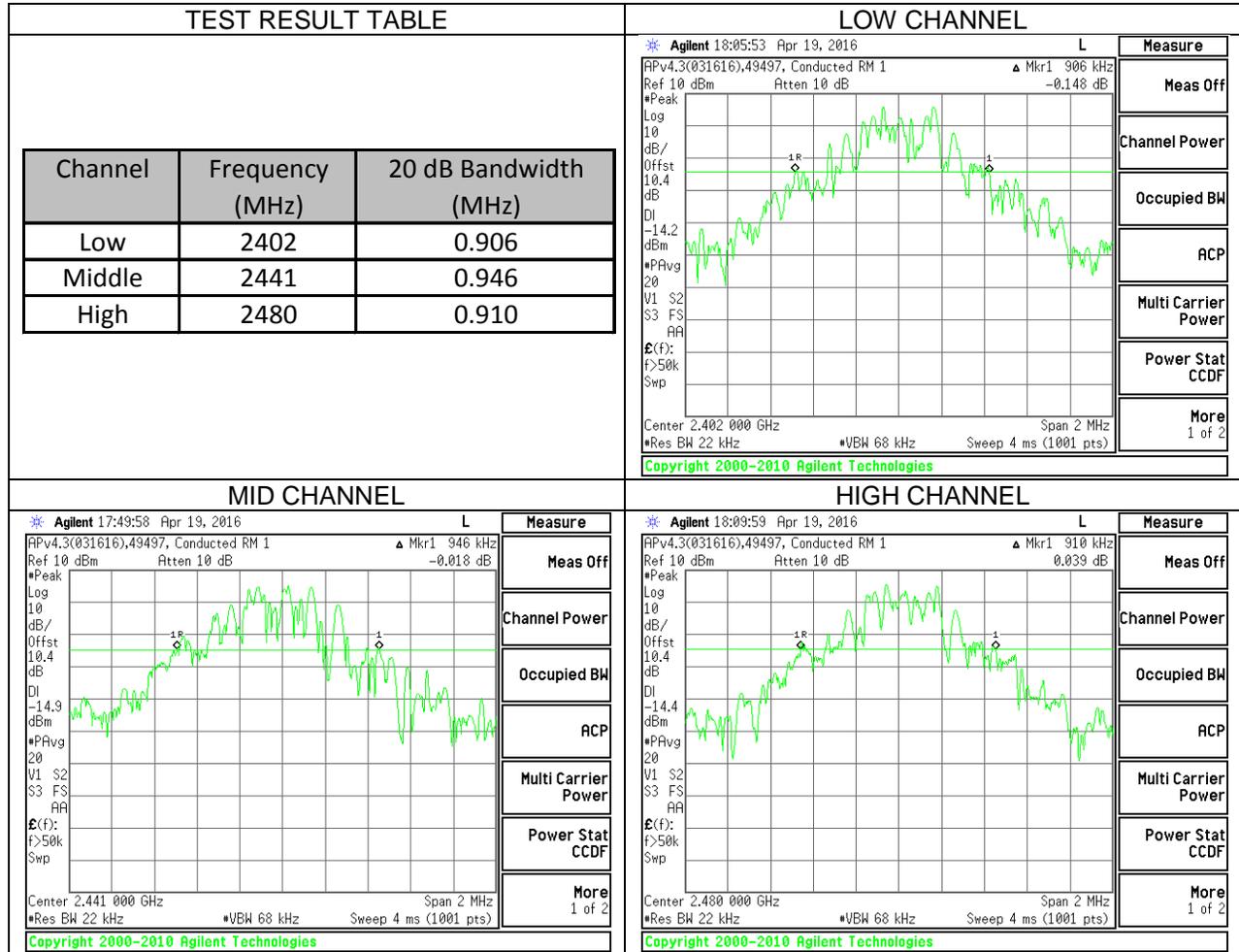
None; for reporting purposes only.

TEST PROCEDURE

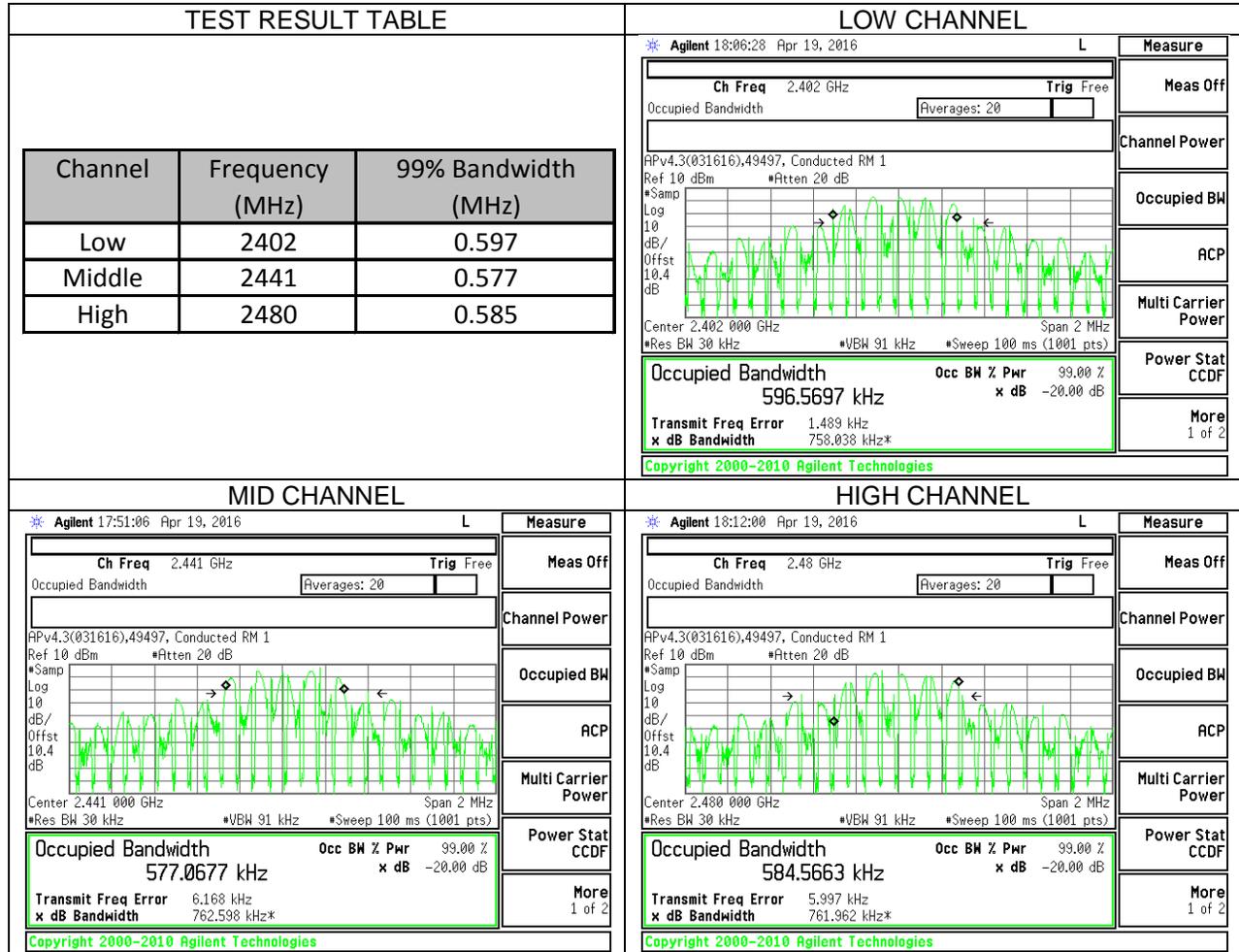
DA 00-705: The transmitter output is connected to a spectrum analyzer. The RBW is set to \geq 1% of the 20 dB bandwidth. The VBW is set to \geq RBW. The sweep time is coupled.

RESULTS

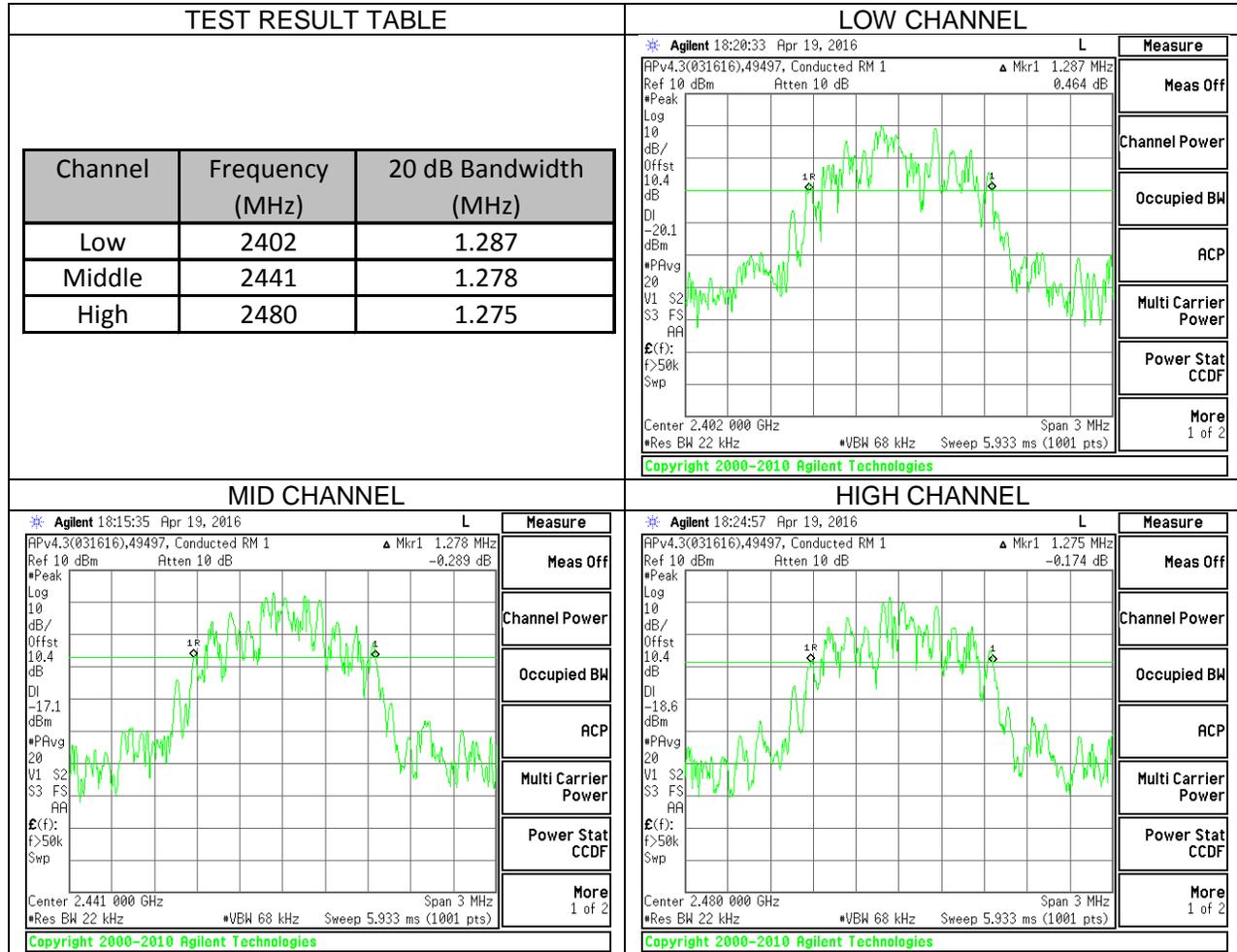
8.2.1. GFSK 20 dB BANDWIDTH PLOTS AND TABLE



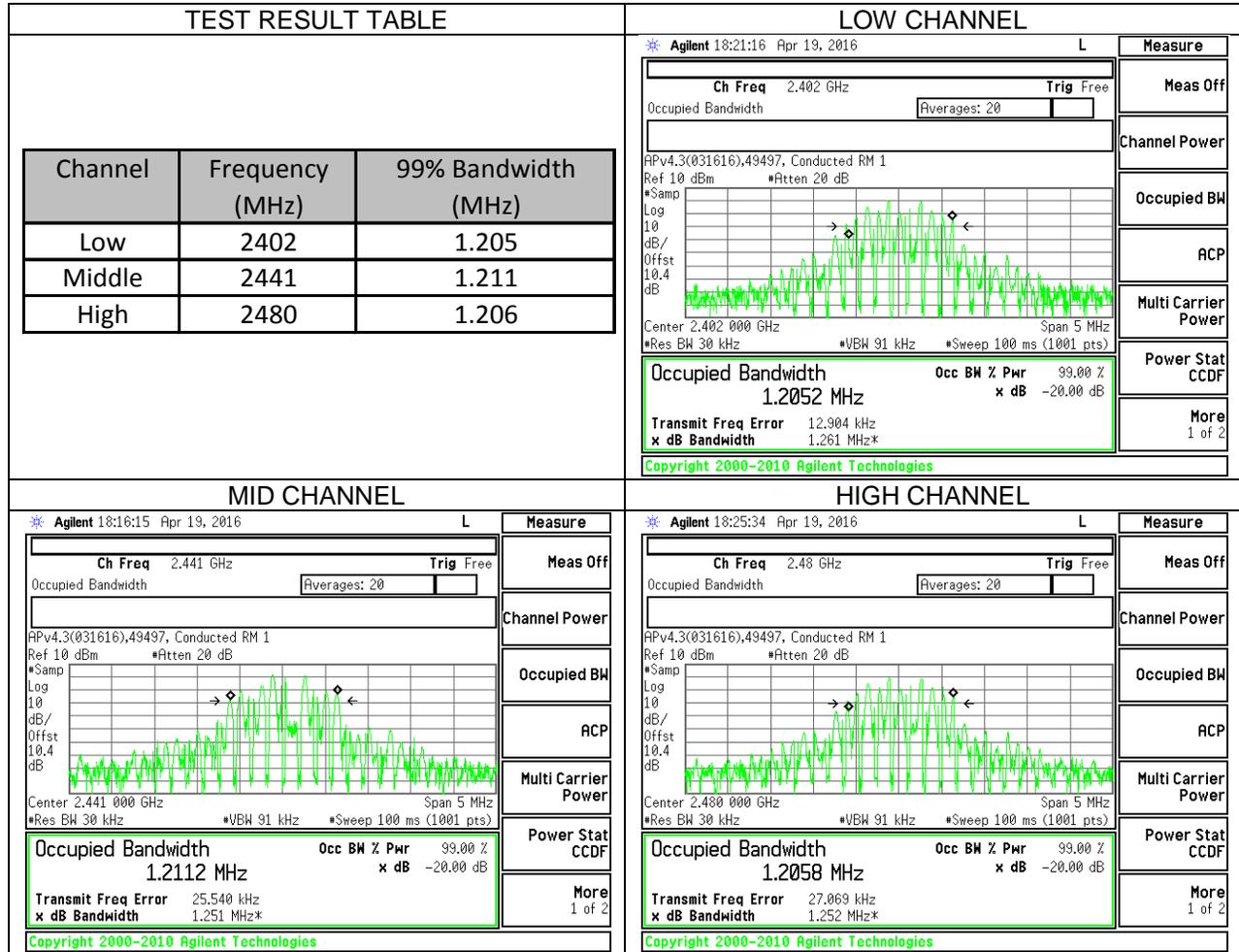
8.2.2. GFSK 99% BANDWIDTH PLOTS AND TABLE



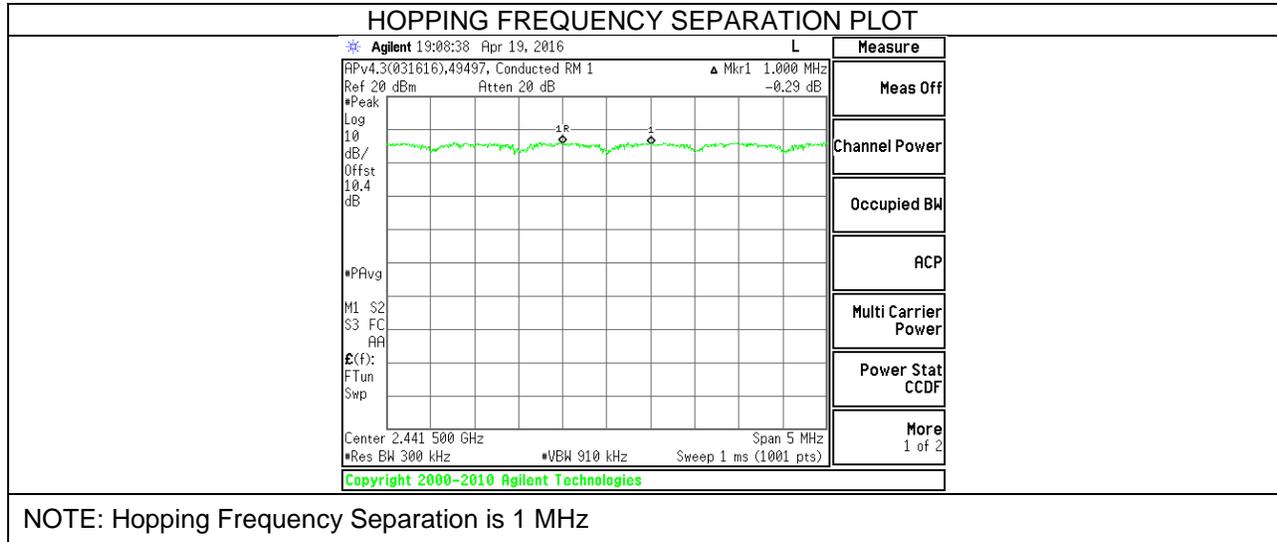
8.2.3. 8PSK 20 dB BANDWIDTH PLOTS AND TABLE



8.2.4. 8PSK 99% BANDWIDTH PLOTS AND TABLE



8.3.1. ENHANCED DATA RATE 8PSK MODULATION



**8.4. NUMBER OF HOPPING CHANNELS
LIMIT**

FCC §15.247 (a) (1) (iii)

Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.

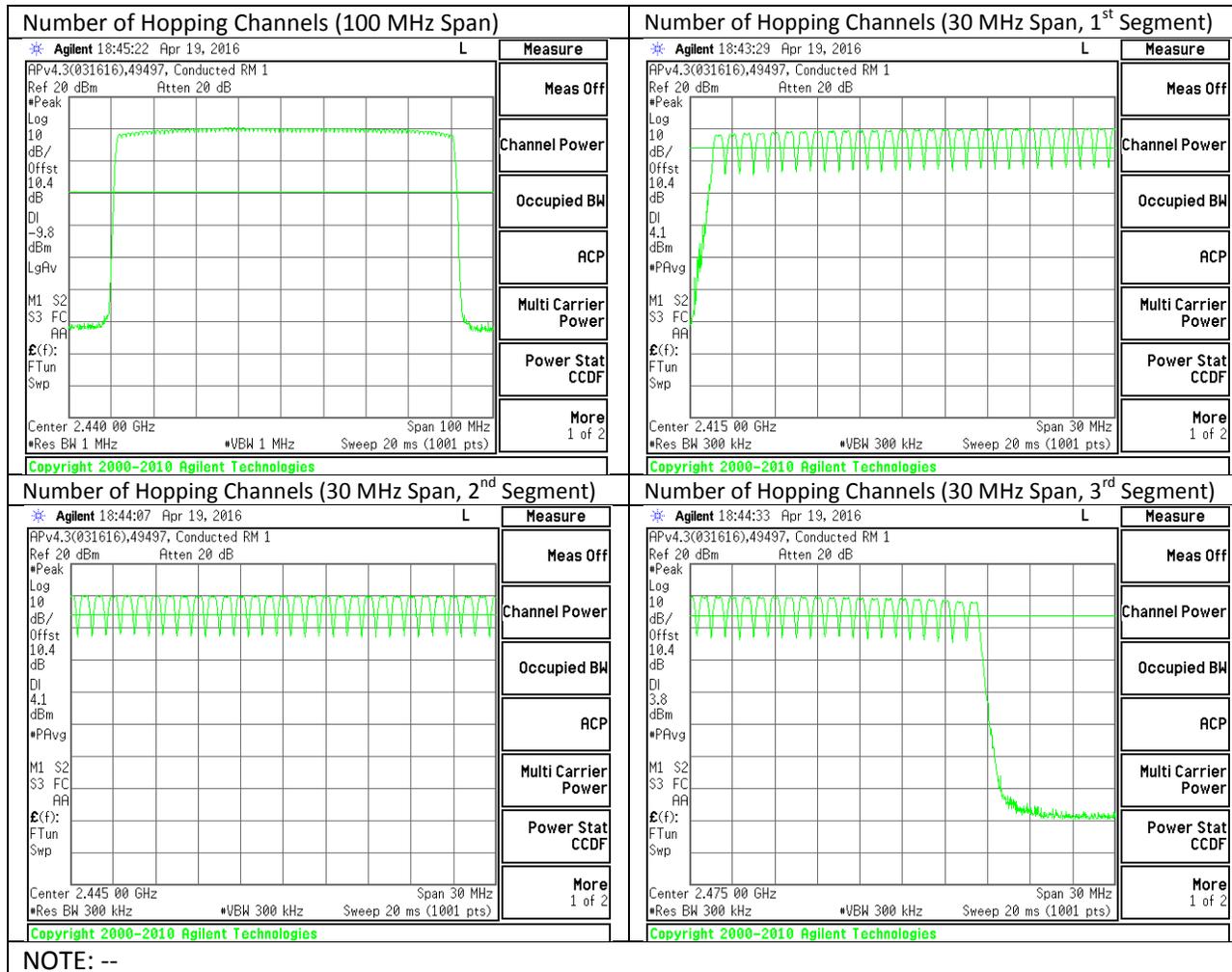
TEST PROCEDURE

DA 00-705: The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

Normal Mode: 79 Channels observed.

8.4.1. NUMBER OF HOPPING CHANNELS PLOTS



8.5. AVERAGE TIME OF OCCUPANCY

LIMIT

FCC §15.247 (a) (1) (iii)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 3.16 second scan, to enable resolution of each occurrence.

The average time of occupancy in the specified 31.6 second period (79 channels * 0.4 s) is equal to 10 * (# of pulses in 3.16 s) * pulse width.

For AFH mode, the average time of occupancy in the specified 8 second period (20 channels * 0.4 seconds) is equal to 10 * (# of pulses in 0.8 s) * pulse width.

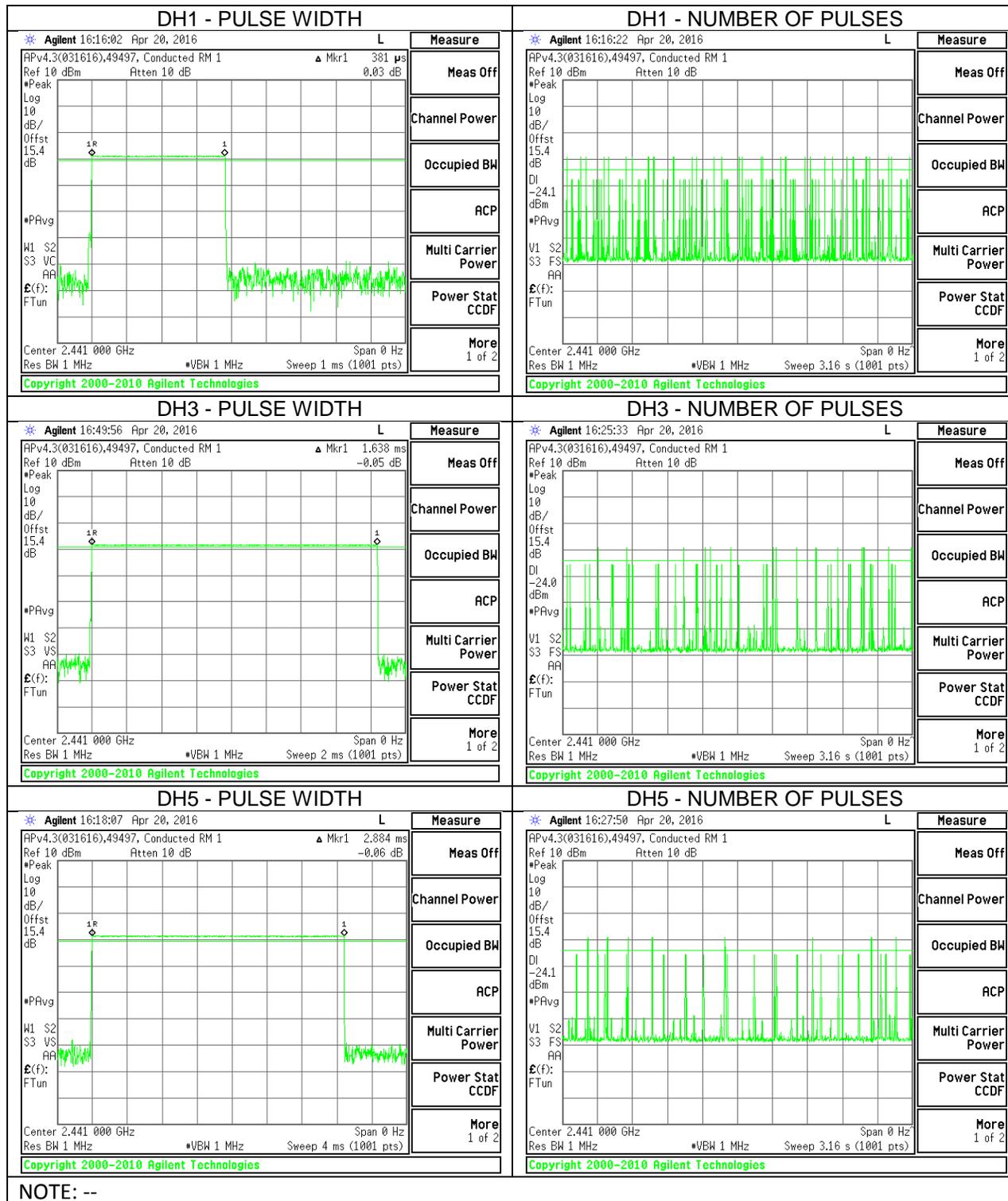
RESULTS

8.5.1. BASIC DATA RATE GFSK MODULATION

| AVERAGE TIME OF OCCUPANCY | | | | | |
|---------------------------|--------------------|----------------------------------|---------------------------------|-------------|--------------|
| DH Packet | Pulse Width (msec) | Number of Pulses in 3.16 seconds | Average Time of Occupancy (sec) | Limit (sec) | Margin (sec) |
| GFSK Normal Mode | | | | | |
| DH1 | 0.381 | 32 | 0.1219 | 0.4 | -0.2781 |
| DH3 | 1.638 | 15 | 0.2457 | 0.4 | -0.1543 |
| DH5 | 2.884 | 11 | 0.3172 | 0.4 | -0.0828 |
| DH Packet | Pulse Width (sec) | Number of Pulses in 0.8 seconds | Average Time of Occupancy (sec) | Limit (sec) | Margin (sec) |
| GFSK AFH Mode | | | | | |
| DH1 | 0.381 | 8 | 0.03048 | 0.4 | -0.3695 |
| DH3 | 1.638 | 3.75 | 0.06143 | 0.4 | -0.3386 |
| DH5 | 2.884 | 2.75 | 0.07931 | 0.4 | -0.3207 |

NOTE: --

Pulse Width and Number of Pulses in 3.16 Seconds Period Plots

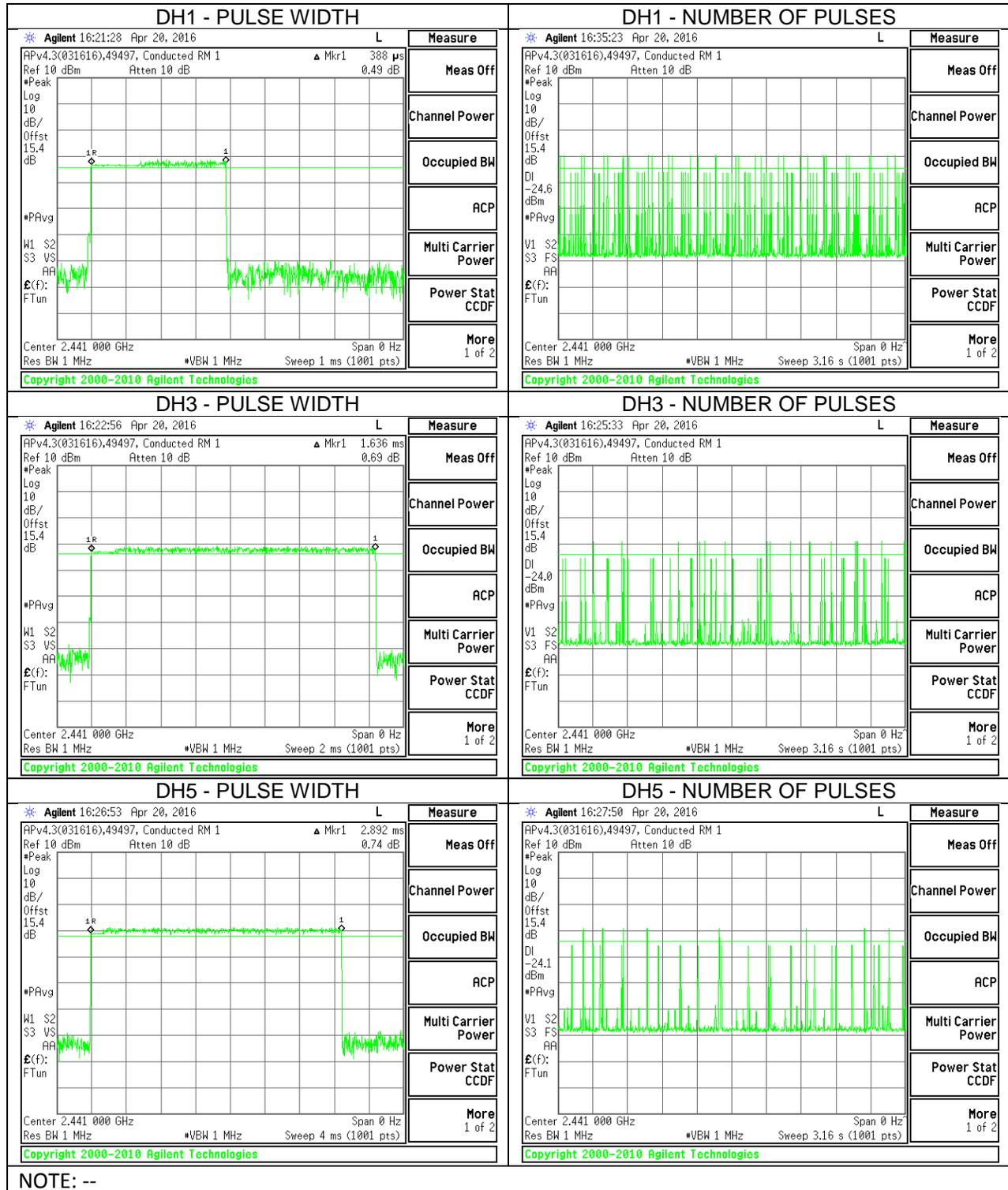


NOTE: --

8.5.2. ENHANCED DATA RATE 8PSK MODULATION

| AVERAGE TIME OF OCCUPANCY | | | | | | |
|---------------------------|--------------------|----------------------------------|---------------------------------|-------------|--------------|--|
| DH Packet | Pulse Width (msec) | Number of Pulses in 3.16 seconds | Average Time of Occupancy (sec) | Limit (sec) | Margin (sec) | |
| 8PSK Normal Mode | | | | | | |
| DH1 | 0.388 | 31 | 0.1203 | 0.4 | -0.2797 | |
| DH3 | 1.636 | 15 | 0.2454 | 0.4 | -0.1546 | |
| DH5 | 2.892 | 8 | 0.2314 | 0.4 | -0.1686 | |
| DH Packet | Pulse Width (sec) | Number of Pulses in 0.8 seconds | Average Time of Occupancy (sec) | Limit (sec) | Margin (sec) | |
| 8PSK AFH Mode | | | | | | |
| DH1 | 0.388 | 7.75 | 0.03007 | 0.4 | -0.3699 | |
| DH3 | 1.636 | 3.75 | 0.06135 | 0.4 | -0.3387 | |
| DH5 | 2.892 | 2 | 0.05784 | 0.4 | -0.3422 | |
| NOTE: -- | | | | | | |

Pulse Width and Number of Pulses in 3.16 Seconds Period Plots



NOTE: --

8.6. OUTPUT POWER

LIMIT

§15.247 (b) (1)

The maximum antenna gain is less than 6 dBi, therefore the limit is 21 dBm.

TEST PROCEDURE

DA 00-705: The transmitter output is connected to a power meter with peak detector using gated method.

RESULTS

| BASIC DATA RATE GFSK | | | | |
|----------------------|-----------------|--------------------|-------------|-------------|
| Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Margin (dB) |
| Low | 2402 | 8.430 | 21 | -12.57 |
| Middle | 2441 | 10.310 | 21 | -10.69 |
| High | 2480 | 8.890 | 21 | -12.11 |

| ENHANCED DATA RATE 8DPSK | | | | |
|--------------------------|-----------------|--------------------|-------------|-------------|
| Channel | Frequency (MHz) | Output Power (dBm) | Limit (dBm) | Margin (dB) |
| Low | 2402 | 7.170 | 21 | -13.83 |
| Middle | 2441 | 8.880 | 21 | -12.12 |
| High | 2480 | 7.440 | 21 | -13.56 |

NOTE: --

8.8. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

Limit = -20 dBc

TEST PROCEDURE

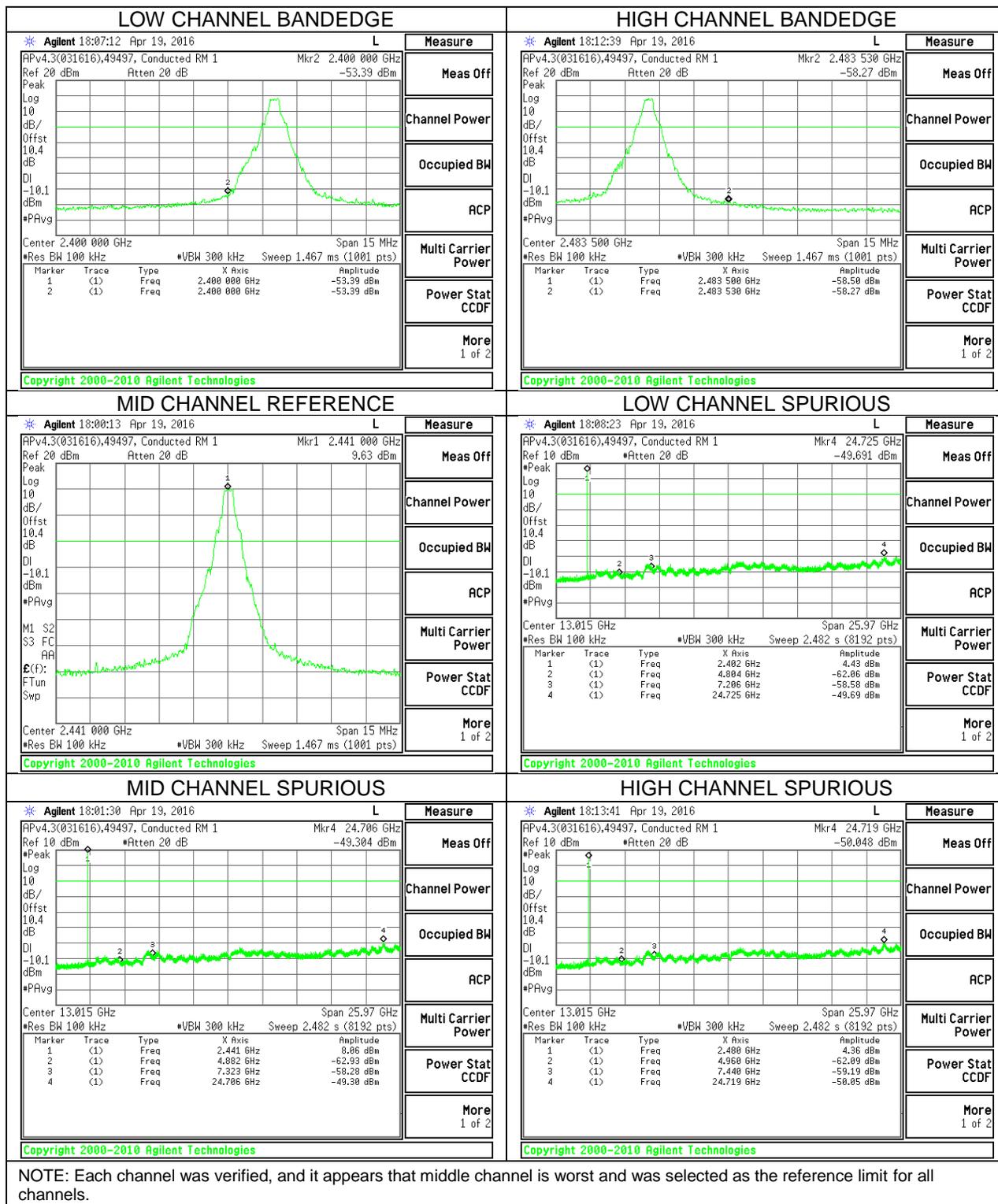
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

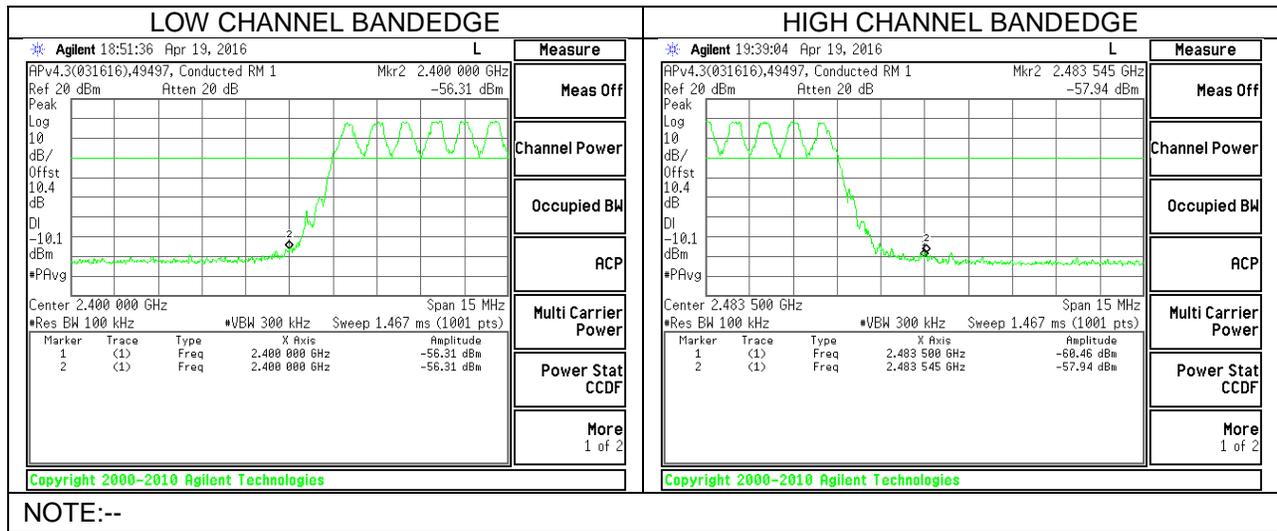
The bandedges at 2.4 and 2.4835 GHz are investigated with the transmitter set to the normal hopping mode.

RESULTS

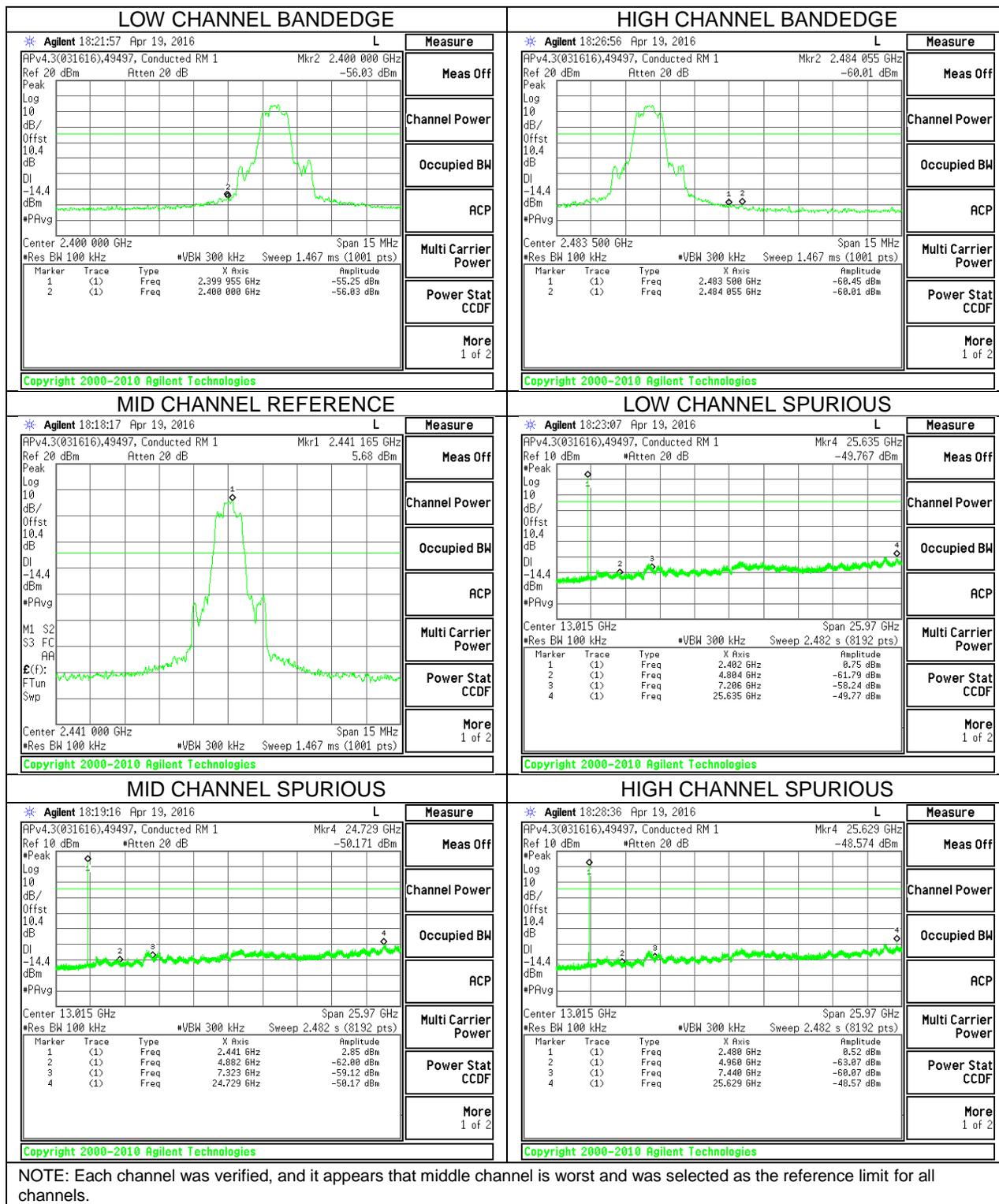
8.8.1. BASIC DATA RATE GFSK MODULATION NON-HOPPING MODE BANDEDGE AND SPURIOUS EMISSIONS PLOTS



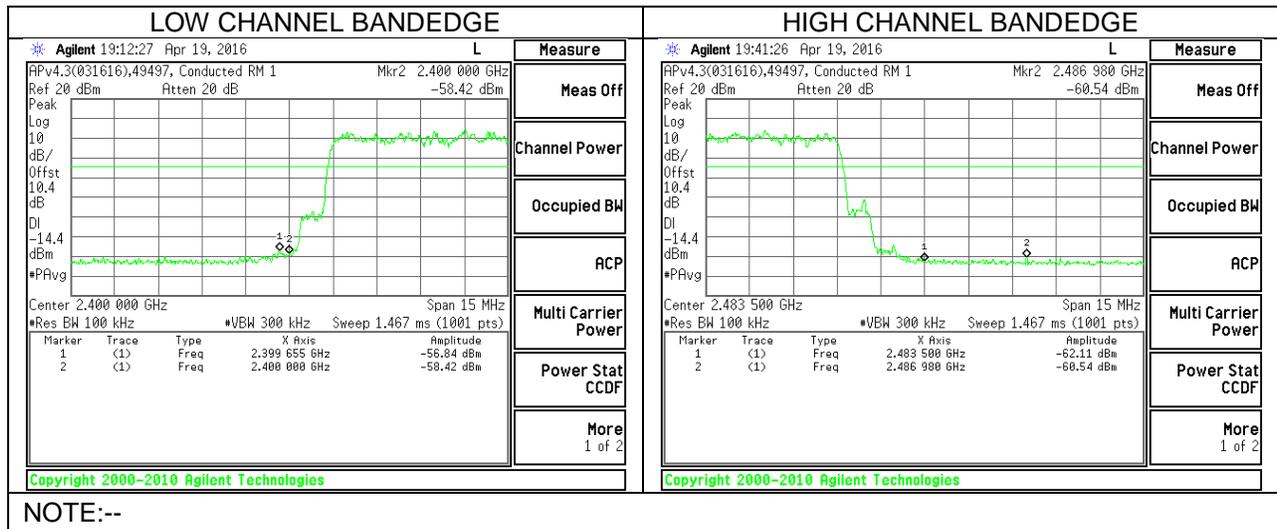
8.8.2. BASIC DATA RATE GFSK MODULATION HOPPING MODE SPURIOUS BANDEDGE EMISSIONS PLOTS



8.8.3. ENHANCED DATA RATE 8PSK MODULATION NON-HOPPING MODE BANDEDGE AND SPURIOUS EMISSIONS PLOTS



8.8.4. ENHANCED DATA RATE 8PSK MODULATION HOPPING MODE SPURIOUS BANDEDGE EMISSIONS PLOTS



9. RADIATED EMISSION TEST

LIMITS

FCC §15.205 and §15.209

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement.

The spectrum from 30GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

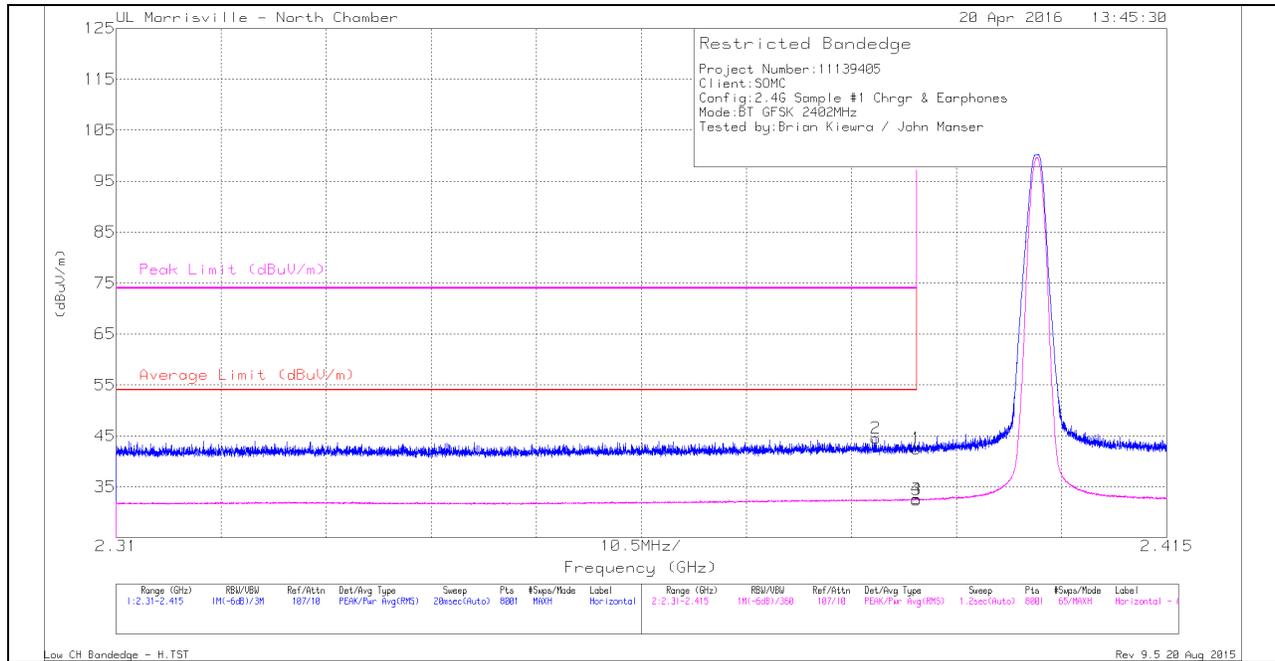
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

RESULTS

9.1. TRANSMITTER ABOVE 1 GHz
9.1.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

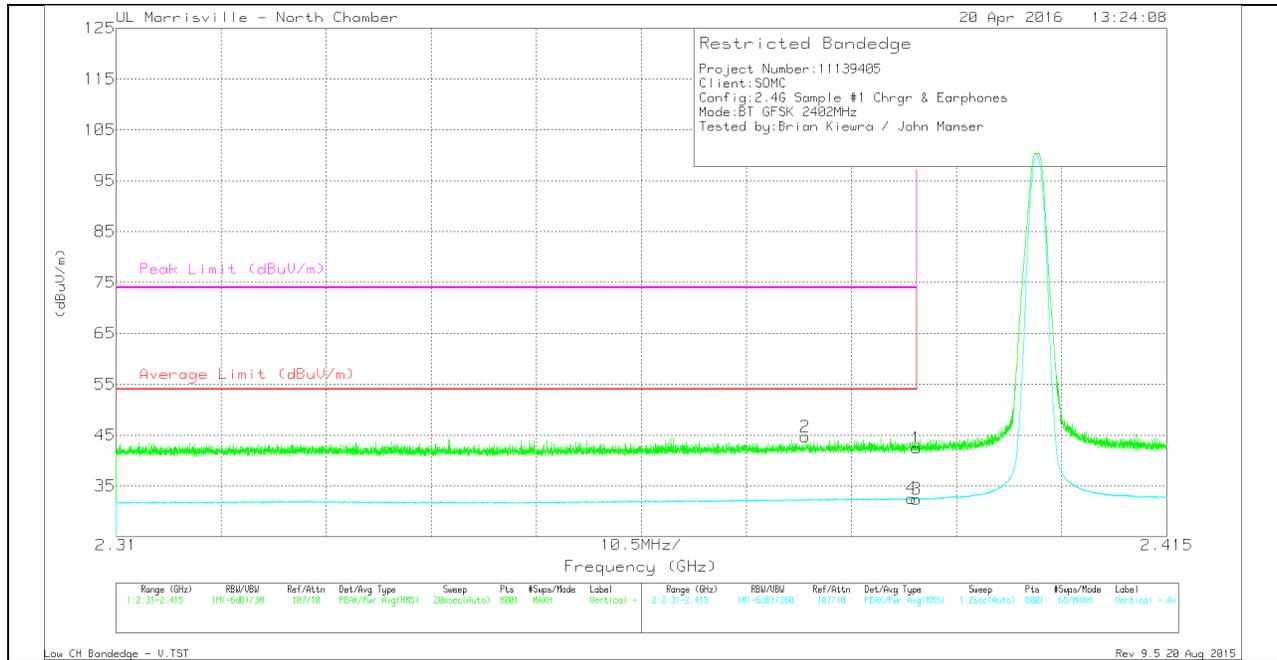
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 35.23 | Pk | 32.1 | -24.8 | 42.53 | - | - | 74 | -31.47 | 284 | 149 | H |
| 2 | * 2.386 | 37.23 | Pk | 32.1 | -24.8 | 44.53 | - | - | 74 | -29.47 | 284 | 149 | H |
| 3 | * 2.39 | 25.17 | V1TR | 32.1 | -24.8 | 32.47 | 54 | -21.53 | - | - | 284 | 149 | H |
| 4 | * 2.39 | 25.34 | V1TR | 32.1 | -24.8 | 32.64 | 54 | -21.36 | - | - | 284 | 149 | H |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 35.18 | Pk | 32.1 | -24.8 | 42.48 | - | - | 74 | -31.52 | 11 | 203 | V |
| 2 | * 2.379 | 37.47 | Pk | 32 | -24.8 | 44.67 | - | - | 74 | -29.33 | 11 | 203 | V |
| 3 | * 2.39 | 25.14 | V1TR | 32.1 | -24.8 | 32.44 | 54 | -21.56 | - | - | 11 | 203 | V |
| 4 | * 2.389 | 25.28 | V1TR | 32.1 | -24.8 | 32.58 | 54 | -21.42 | - | - | 11 | 203 | V |

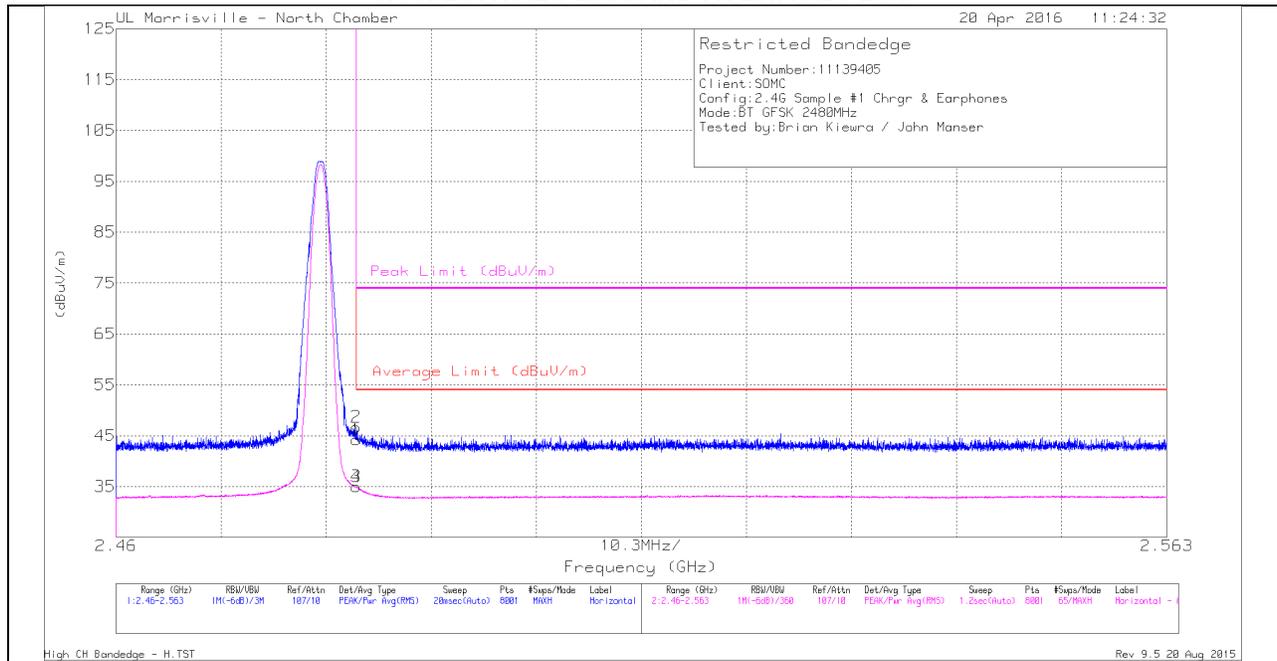
* - indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

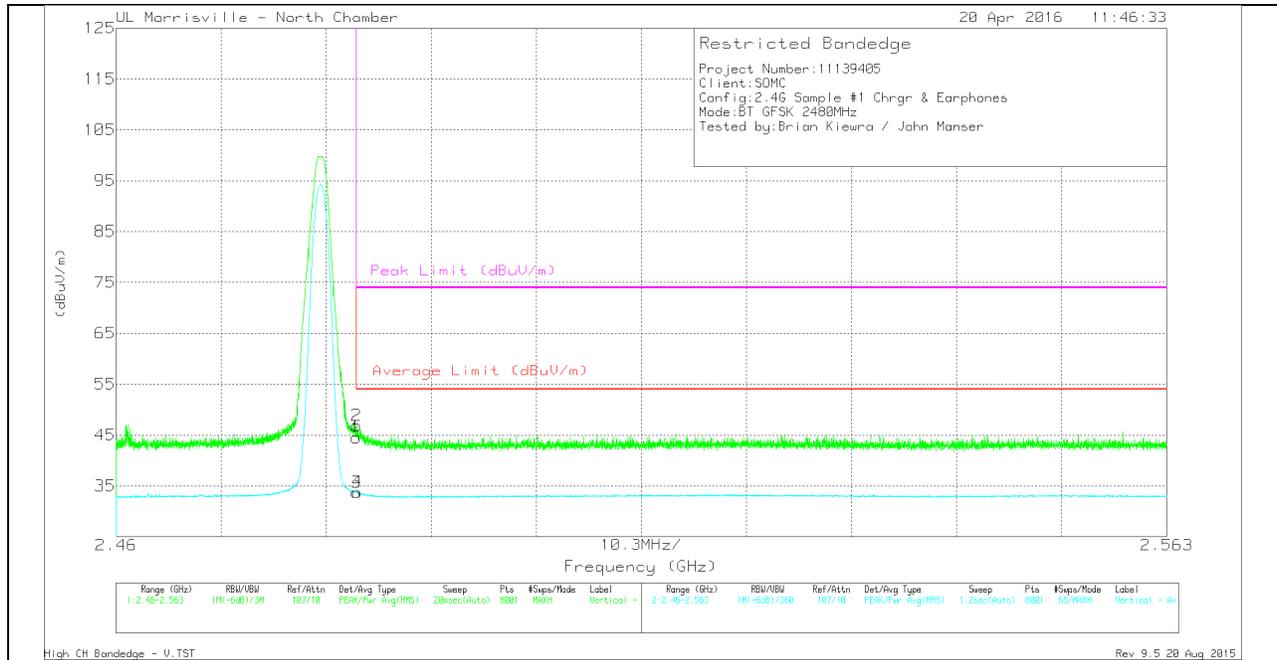
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AFT119 (dB/m) | Amp/Cbl/Fitr/Paid (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 36.68 | Pk | 32.3 | -24.8 | 44.18 | - | - | 74 | -29.82 | 289 | 177 | H |
| 2 | * 2.484 | 39.2 | Pk | 32.3 | -24.8 | 46.7 | - | - | 74 | -27.3 | 289 | 177 | H |
| 3 | * 2.484 | 27.52 | V1TR | 32.3 | -24.8 | 35.02 | 54 | -18.98 | - | - | 289 | 177 | H |
| 4 | * 2.484 | 27.47 | V1TR | 32.3 | -24.8 | 34.97 | 54 | -19.03 | - | - | 289 | 177 | H |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 37.02 | Pk | 32.3 | -24.8 | 44.52 | - | - | 74 | -29.48 | 7 | 153 | V |
| 2 | * 2.484 | 39.35 | Pk | 32.3 | -24.8 | 46.85 | - | - | 74 | -27.15 | 7 | 153 | V |
| 3 | * 2.484 | 26.21 | V1TR | 32.3 | -24.8 | 33.71 | 54 | -20.29 | - | - | 7 | 153 | H |
| 4 | * 2.484 | 26.31 | V1TR | 32.3 | -24.8 | 33.81 | 54 | -20.19 | - | - | 7 | 153 | H |

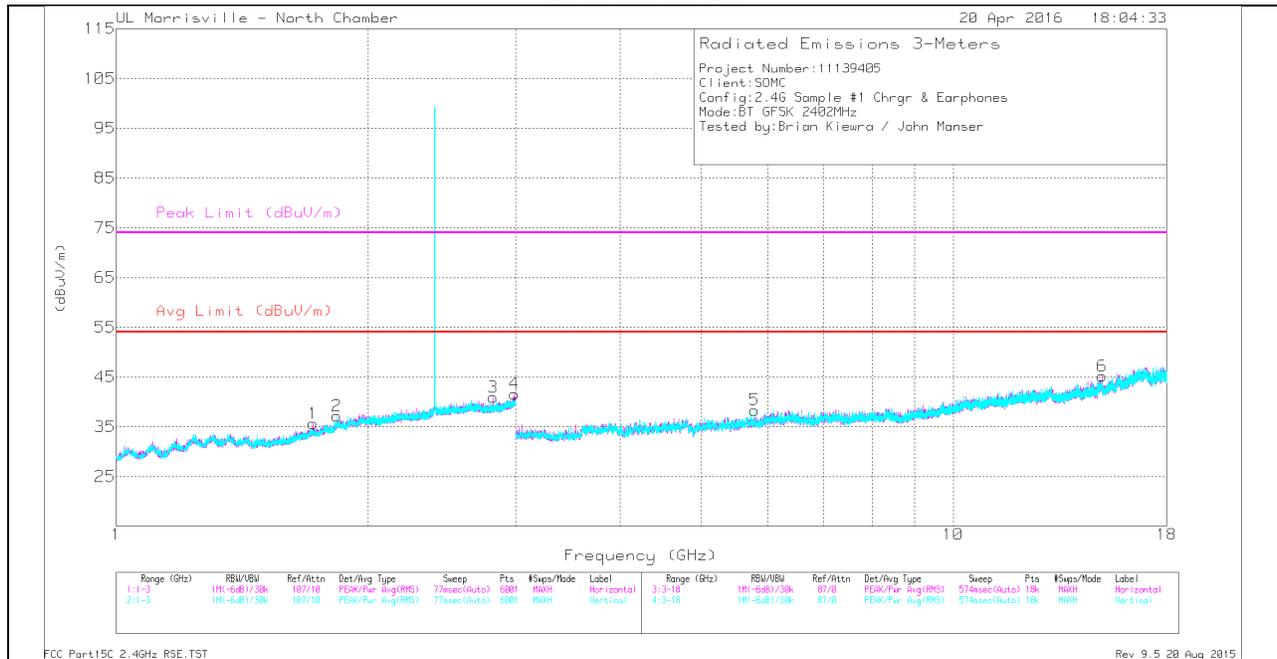
* - indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector

V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

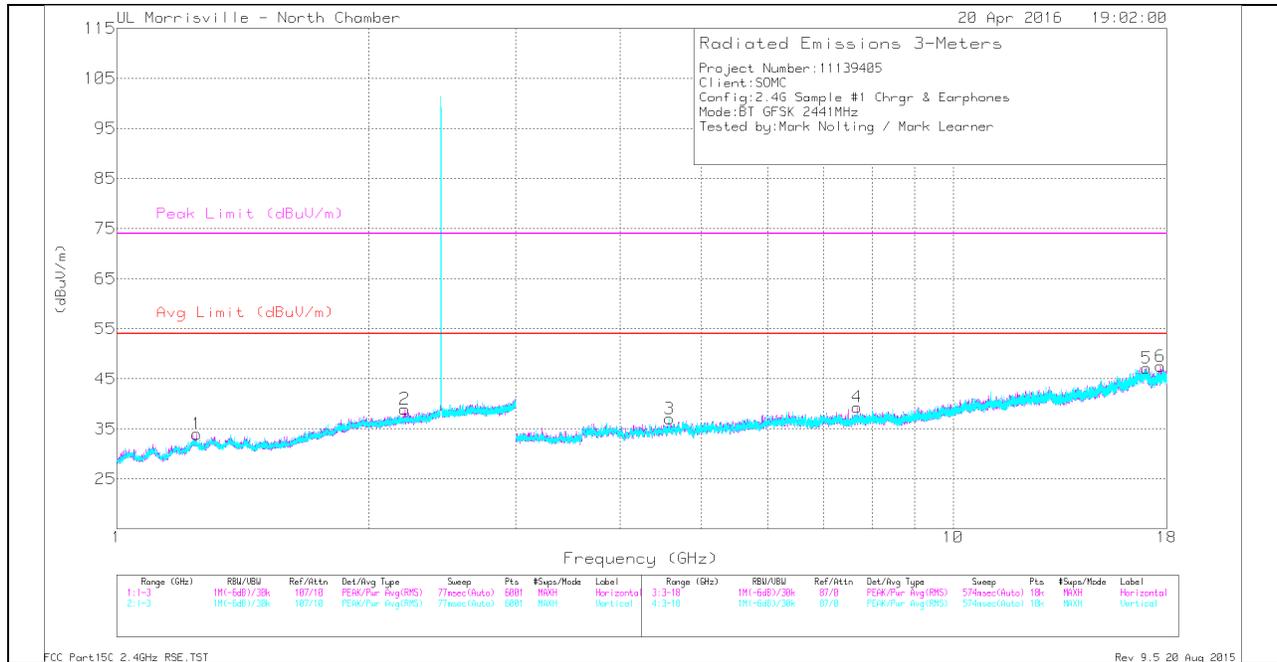
LOW CHANNEL DATA

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF AT0072 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.721 | 36.3 | PK-U | 29.4 | -24.7 | 41 | - | - | 74 | -33 | 178 | 112 | H |
| | * 1.721 | 24.24 | V1TR | 29.4 | -24.7 | 28.94 | 54 | -25.06 | - | - | 178 | 112 | H |
| 3 | * 2.82 | 37.06 | PK-U | 32.3 | -24.2 | 45.16 | - | - | 74 | -28.84 | 328 | 153 | H |
| | * 2.819 | 25.06 | V1TR | 32.3 | -24.2 | 33.16 | 54 | -20.84 | - | - | 328 | 153 | H |
| 2 | 1.835 | 31.15 | PK | 30.7 | -24.7 | 37.15 | - | - | - | - | 0-360 | 101 | V |
| 4 | 2.993 | 32.53 | PK | 32.6 | -23.5 | 41.63 | - | - | - | - | 0-360 | 101 | H |
| 5 | 5.79 | 35.96 | PK | 34.7 | -32.3 | 38.36 | - | - | - | - | 0-360 | 101 | V |
| 6 | 15.065 | 32.29 | PK | 39.8 | -26.9 | 45.19 | - | - | - | - | 0-360 | 101 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 PK-U: Maximum Peak
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration
 FCC Part15C 2.4GHz RSE.TST
 Rev 9.5 20 Aug 2015

MID CHANNEL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

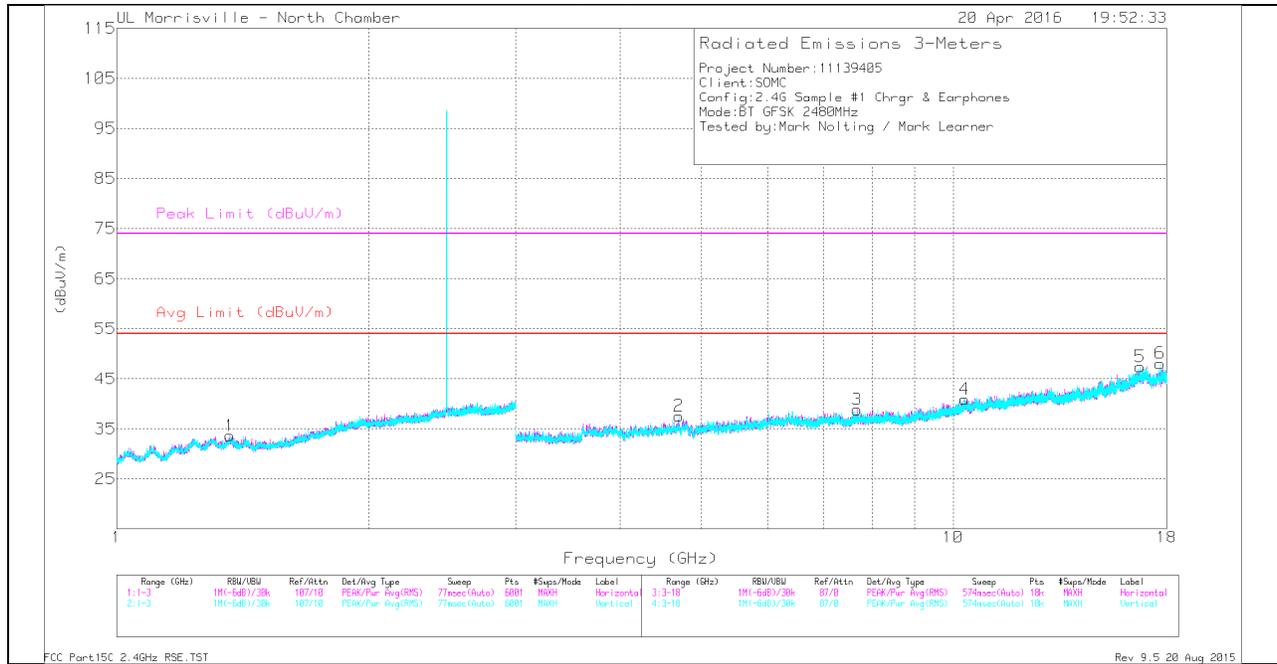
MID CHANNEL DATA

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF AT0072 (dB/m) | Amp/Cb/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.245 | 36.08 | PK-U | 29.1 | -26.2 | 38.98 | - | - | 74 | -35.02 | 360 | 200 | H |
| | * 1.245 | 24.69 | V1TR | 29.1 | -26.2 | 27.59 | 54 | -26.41 | - | - | 360 | 200 | H |
| 2 | * 2.209 | 36.61 | PK-U | 31.7 | -24.7 | 43.61 | - | - | 74 | -30.39 | 360 | 102 | H |
| | * 2.211 | 24.79 | V1TR | 31.7 | -24.7 | 31.79 | 54 | -22.21 | - | - | 360 | 102 | H |
| 4 | * 7.673 | 38.04 | PK-U | 35.6 | -29.8 | 43.84 | - | - | 74 | -30.16 | 253 | 199 | H |
| | * 7.672 | 26.71 | V1TR | 35.6 | -29.8 | 32.51 | 54 | -21.49 | - | - | 253 | 199 | H |
| 3 | * 4.58 | 41.99 | PK-U | 34.1 | -32.9 | 43.19 | - | - | 74 | -30.81 | 253 | 102 | V |
| | * 4.58 | 29.72 | V1TR | 34.1 | -32.9 | 30.92 | 54 | -23.08 | - | - | 253 | 102 | V |
| 5 | 17.034 | 31.04 | Pk | 41.9 | -25.8 | 47.14 | - | - | - | - | 0-360 | 200 | V |
| 6 | 17.683 | 30.39 | Pk | 41.4 | -24.3 | 47.49 | - | - | - | - | 0-360 | 200 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 PK-U: Maximum Peak
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration
 FCC Part15C 2.4GHz RSE.TST
 Rev 9.5 20 Aug 2015

HIGH CHANNEL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

RADIATED EMISSIONS

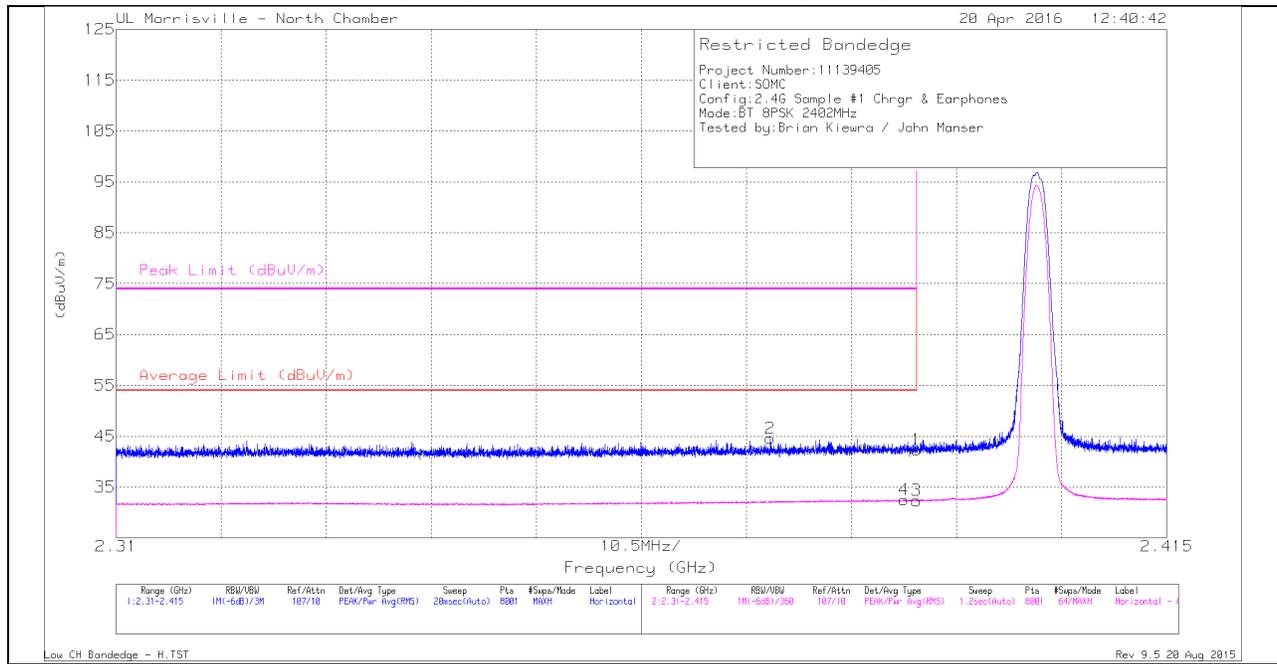
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF AT0072 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.366 | 36.13 | PK-U | 28.9 | -25.7 | 39.33 | - | - | 74 | -34.67 | 360 | 200 | H |
| | * 1.367 | 24.65 | V1TR | 28.9 | -25.7 | 27.85 | 54 | -26.15 | - | - | 360 | 200 | H |
| 3 | * 7.672 | 37.7 | PK-U | 35.6 | -29.8 | 43.5 | - | - | 74 | -30.5 | 360 | 102 | H |
| | * 7.673 | 26.7 | V1TR | 35.6 | -29.8 | 32.5 | 54 | -21.5 | - | - | 360 | 102 | H |
| 2 | * 4.7 | 41.55 | PK-U | 34.2 | -33.2 | 42.55 | - | - | 74 | -31.45 | 213 | 102 | V |
| | * 4.701 | 30.35 | V1TR | 34.2 | -33.2 | 31.35 | 54 | -22.65 | - | - | 213 | 102 | V |
| 4 | 10.317 | 30.04 | Pk | 37.3 | -26.4 | 40.94 | - | - | - | - | 0-360 | 101 | V |
| 5 | 16.73 | 30.62 | Pk | 42 | -25.2 | 47.42 | - | - | - | - | 0-360 | 101 | V |
| 6 | 17.674 | 30.98 | Pk | 41.4 | -24.3 | 48.08 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 PK-U: Maximum Peak
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration
 FCC Part15C 2.4GHz RSE.TST
 Rev 9.5 20 Aug 2015

9.1.2. ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



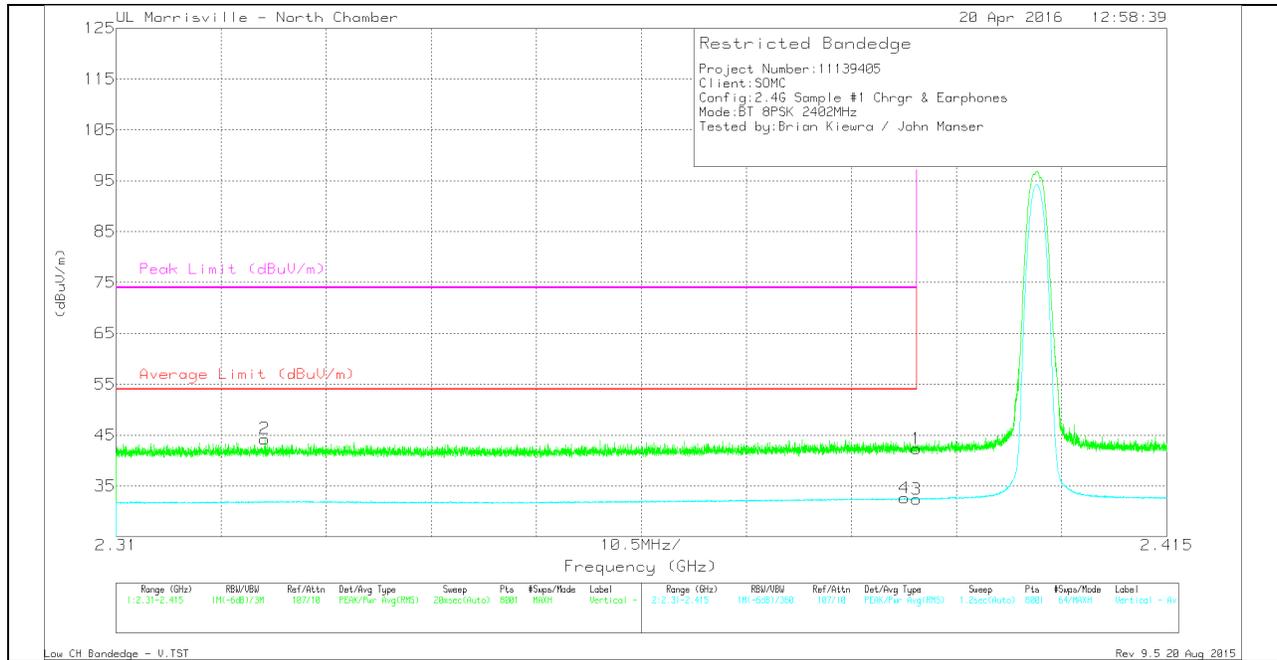
HORIZONTAL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 35.08 | Pk | 32.1 | -24.8 | 42.38 | - | - | 74 | -31.62 | 286 | 214 | H |
| 2 | * 2.375 | 37.38 | Pk | 32 | -24.8 | 44.58 | - | - | 74 | -29.42 | 286 | 214 | H |
| 3 | * 2.39 | 25.05 | V1TR | 32.1 | -24.8 | 32.35 | 54 | -21.65 | - | - | 286 | 214 | H |
| 4 | * 2.389 | 25.24 | V1TR | 32.1 | -24.8 | 32.54 | 54 | -21.46 | - | - | 286 | 214 | H |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band
 Pk - Peak detector
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

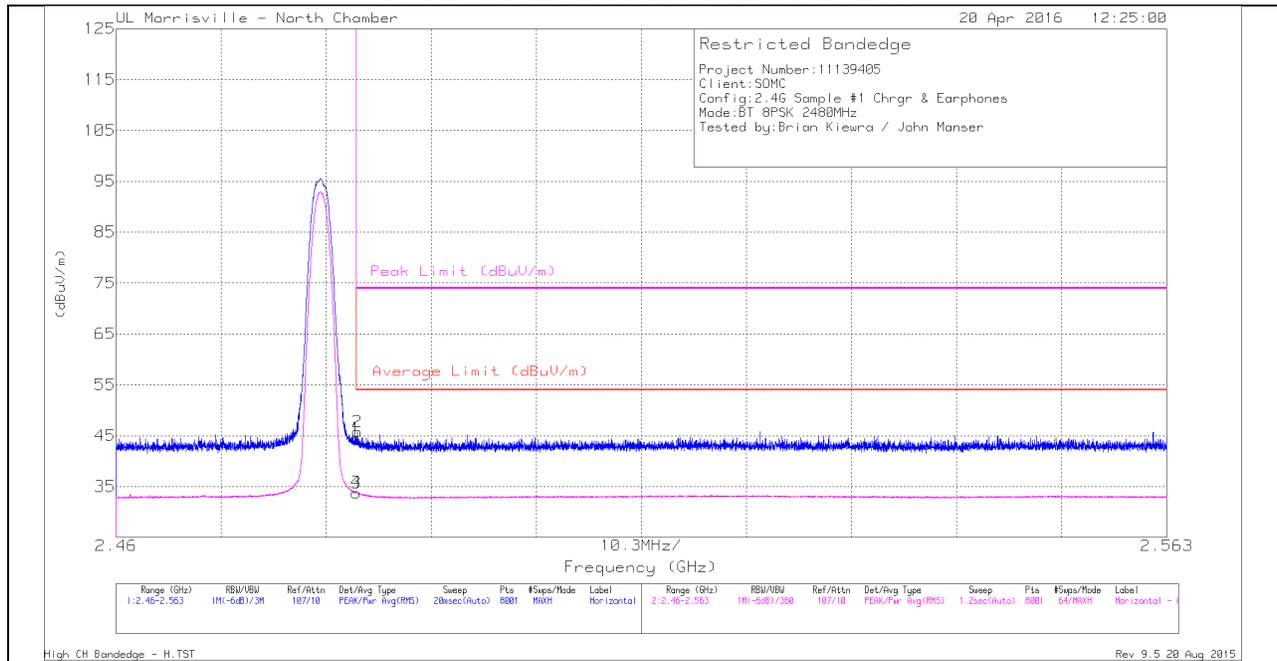
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 35.02 | Pk | 32.1 | -24.8 | 42.32 | - | - | 74 | -31.68 | 8 | 181 | V |
| 2 | * 2.325 | 37.26 | Pk | 31.7 | -24.7 | 44.26 | - | - | 74 | -29.74 | 8 | 181 | V |
| 3 | * 2.39 | 25.12 | V1TR | 32.1 | -24.8 | 32.42 | 54 | -21.58 | - | - | 8 | 181 | V |
| 4 | * 2.389 | 25.32 | V1TR | 32.1 | -24.8 | 32.62 | 54 | -21.38 | - | - | 8 | 181 | V |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band
 Pk - Peak detector
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



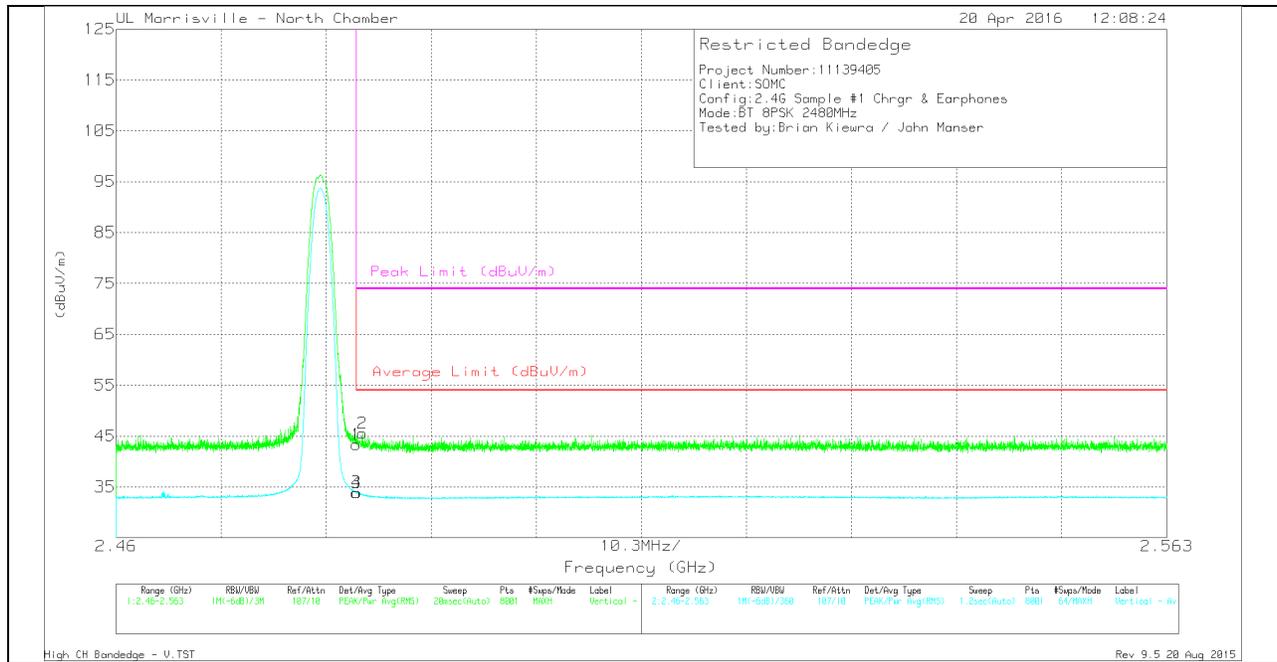
HORIZONTAL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 36.87 | Pk | 32.3 | -24.8 | 44.37 | - | - | 74 | -29.63 | 289 | 179 | H |
| 2 | * 2.484 | 38.32 | Pk | 32.3 | -24.8 | 45.82 | - | - | 74 | -28.18 | 289 | 179 | H |
| 3 | * 2.484 | 26.3 | V1TR | 32.3 | -24.8 | 33.8 | 54 | -20.2 | - | - | 289 | 179 | H |
| 4 | * 2.484 | 26.3 | V1TR | 32.3 | -24.8 | 33.8 | 54 | -20.2 | - | - | 289 | 179 | H |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band
 Pk - Peak detector
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

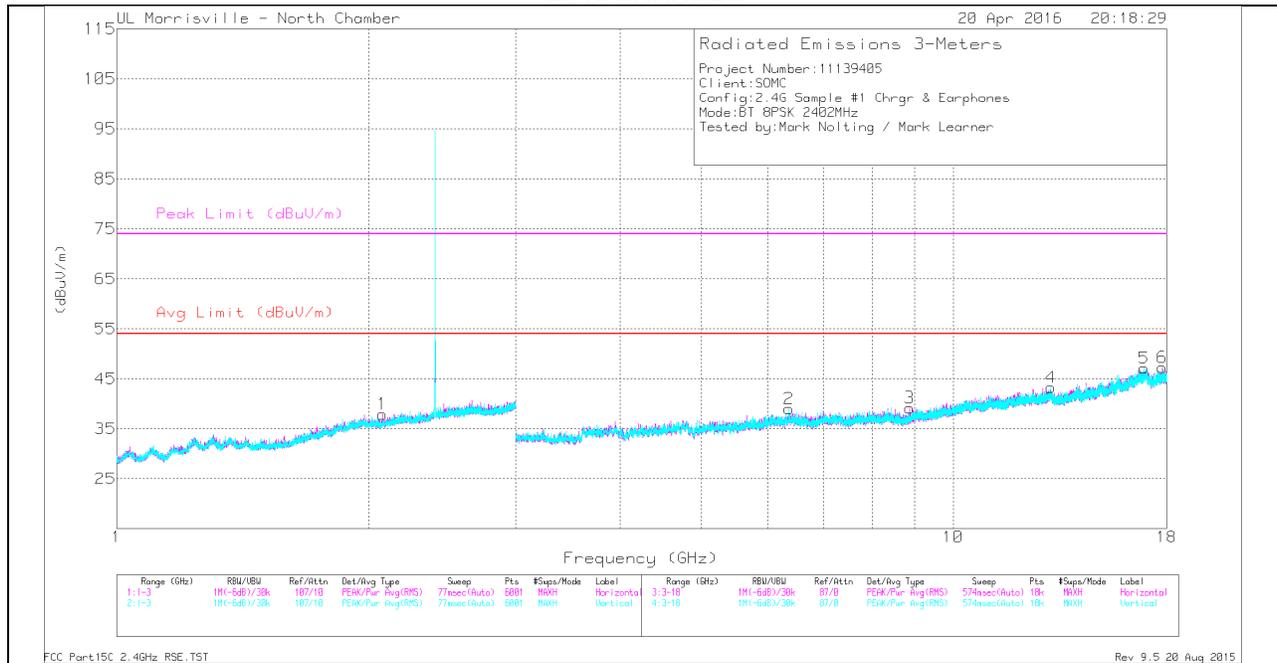
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Fltr/Par d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 35.83 | Pk | 32.3 | -24.8 | 43.33 | - | - | 74 | -30.67 | 4 | 152 | V |
| 2 | * 2.484 | 38.05 | Pk | 32.3 | -24.8 | 45.55 | - | - | 74 | -28.45 | 4 | 152 | V |
| 3 | * 2.484 | 26.42 | V1TR | 32.3 | -24.8 | 33.92 | 54 | -20.08 | - | - | 4 | 152 | V |
| 4 | * 2.484 | 26.4 | V1TR | 32.3 | -24.8 | 33.9 | 54 | -20.1 | - | - | 4 | 152 | V |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band
 Pk - Peak detector
 V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF AT0072 (dB/m) | Amp/Cb/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 6 | * 17.794 | 35.3 | PK-U | 41.5 | -23.9 | 52.9 | - | - | 74 | -21.1 | 126 | 101 | H |
| | * 17.794 | 23.82 | V1TR | 41.5 | -23.9 | 41.42 | 54 | -12.58 | - | - | 126 | 101 | H |
| 1 | 2.08 | 31.43 | Pk | 31.2 | -24.7 | 37.93 | - | - | - | - | 0-360 | 200 | H |
| 2 | 6.361 | 34.14 | Pk | 35.4 | -30.5 | 39.04 | - | - | - | - | 0-360 | 199 | V |
| 3 | 8.866 | 32.97 | Pk | 35.9 | -29.7 | 39.17 | - | - | - | - | 0-360 | 199 | H |
| 4 | 13.083 | 30.69 | Pk | 39.2 | -26.6 | 43.29 | - | - | - | - | 0-360 | 199 | V |
| 5 | 16.908 | 29.52 | Pk | 42 | -24.4 | 47.12 | - | - | - | - | 0-360 | 101 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

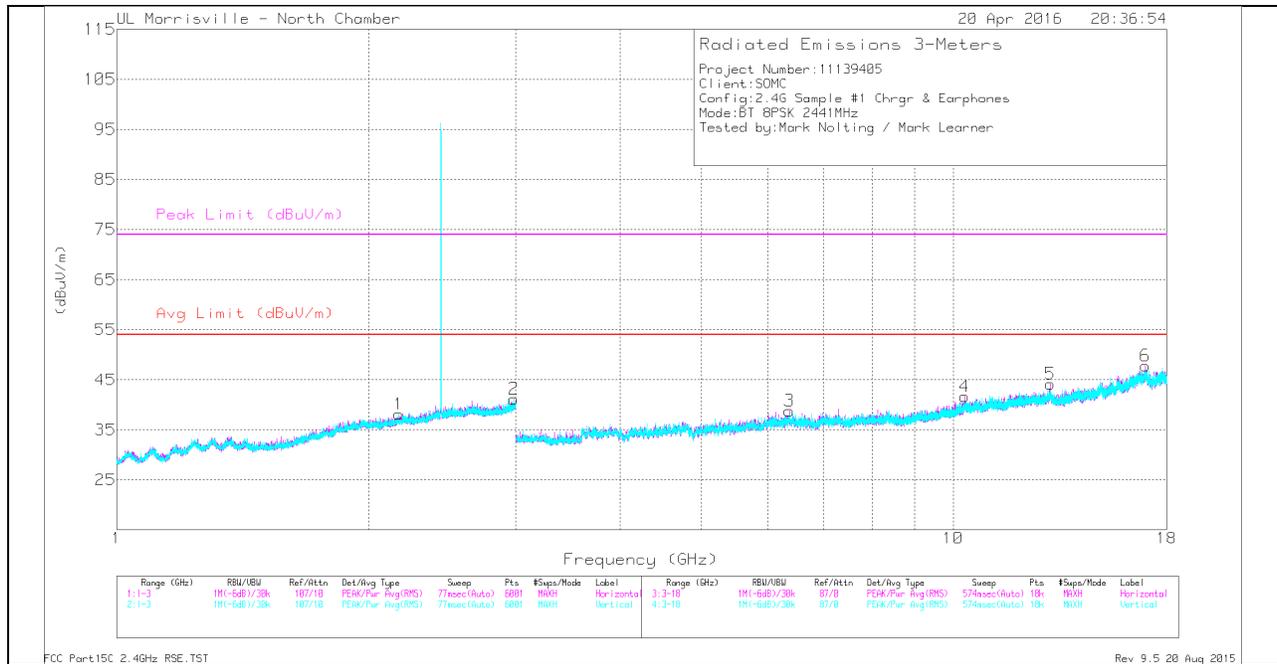
PK-U: Maximum Peak

V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

FCC Part15C 2.4GHz RSE.TST

Rev 9.5 20 Aug 2015

MID CHANNEL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

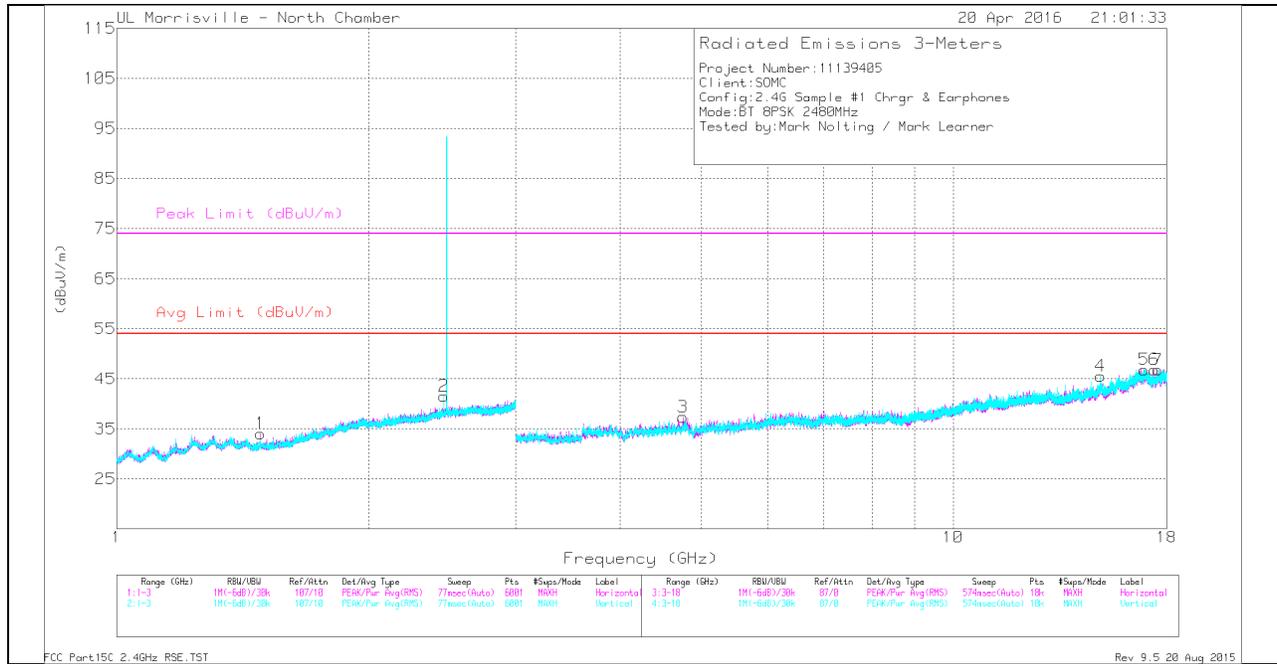
RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF AT0072 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 2.174 | 31.24 | Pk | 31.6 | -24.7 | 38.14 | - | - | - | - | 0-360 | 200 | V |
| 2 | 2.984 | 32.19 | Pk | 32.5 | -23.5 | 41.19 | - | - | - | - | 0-360 | 200 | V |
| 3 | 6.37 | 34.02 | Pk | 35.4 | -30.6 | 38.82 | - | - | - | - | 0-360 | 200 | H |
| 4 | 10.32 | 30.65 | Pk | 37.3 | -26.3 | 41.65 | - | - | - | - | 0-360 | 101 | H |
| 5 | 13.069 | 31.57 | Pk | 39.2 | -26.6 | 44.17 | - | - | - | - | 0-360 | 200 | H |
| 6 | 16.984 | 31.49 | Pk | 41.9 | -25.6 | 47.79 | - | - | - | - | 0-360 | 200 | H |

* - indicates frequency in CFR15.205/IC 8.10 Restricted Band

Pk - Peak detector
 FCC Part15C 2.4GHz RSE.TST
 Rev 9.5 20 Aug 2015

HIGH CHANNEL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF AT0072 (dB/m) | Amp/Cbl/Filtr/Pat'd (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|--------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.485 | 36.43 | PK-U | 28 | -25.2 | 39.23 | - | - | 74 | -34.77 | 1 | 101 | H |
| | * 1.486 | 24.14 | V1TR | 28 | -25.2 | 26.94 | 54 | -27.06 | - | - | 1 | 101 | H |
| 3 | * 4.752 | 41.81 | PK-U | 34.1 | -32.8 | 43.11 | - | - | 74 | -30.89 | 1 | 101 | H |
| | * 4.753 | 30.09 | V1TR | 34.1 | -32.8 | 31.39 | 54 | -22.61 | - | - | 1 | 101 | H |
| 2 | 2.46 | 34.05 | Pk | 32.3 | -24.8 | 41.55 | - | - | - | - | 0-360 | 101 | V |
| 4 | 15.006 | 32.46 | Pk | 39.8 | -26.7 | 45.56 | - | - | - | - | 0-360 | 101 | V |
| 5 | 16.924 | 29.44 | Pk | 42 | -24.6 | 46.84 | - | - | - | - | 0-360 | 200 | V |
| 6 | 17.393 | 30.94 | Pk | 41.4 | -25.5 | 46.84 | - | - | - | - | 0-360 | 200 | H |
| 7 | 17.576 | 30.67 | Pk | 41.4 | -25.3 | 46.77 | - | - | - | - | 0-360 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK-U: Maximum Peak

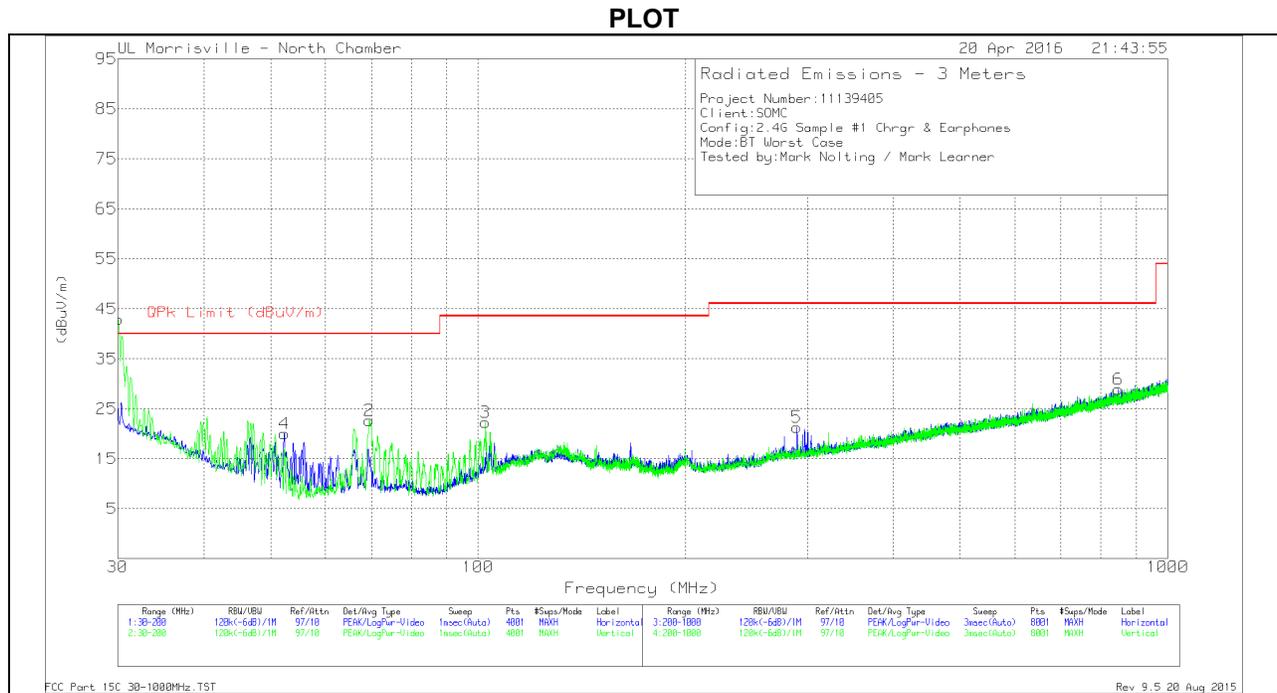
V1TR: VB=1/Ton, RMS Average where: Ton is packet duration

FCC Part15C 2.4GHz RSE.TST

Rev 9.5 20 Aug 2015

9.2. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



BELOW 1 GHz TABLE

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AT0073 AF (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 30.1396 | 37.55 | Qp | 26 | -31.6 | 31.95 | 40 | -8.05 | 86 | 119 | V |
| 4 | 52.355 | 39.14 | Pk | 12.1 | -31.2 | 20.04 | 40 | -19.96 | 0-360 | 399 | H |
| 2 | 69.525 | 41.32 | Pk | 12.4 | -31.1 | 22.62 | 40 | -17.38 | 0-360 | 103 | V |
| 3 | 102.4625 | 37.99 | Pk | 15.1 | -30.8 | 22.29 | 43.52 | -21.23 | 0-360 | 103 | V |
| 5 | 290 | 32.9 | Pk | 17.9 | -29.5 | 21.3 | 46.02 | -24.72 | 0-360 | 103 | H |
| 6 | 847.9 | 29.77 | Pk | 26.3 | -27.2 | 28.87 | 46.02 | -17.15 | 0-360 | 199 | H |

Pk - Peak detector
 Qp - Quasi-Peak detector
 FCC Part 15C 30-1000MHz.TST
 Rev 9.5.20 Aug 2015

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|----------|
| | Quasi-peak | Average |
| 0.15 – 0.5 | 66 to 56 | 56 to 46 |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

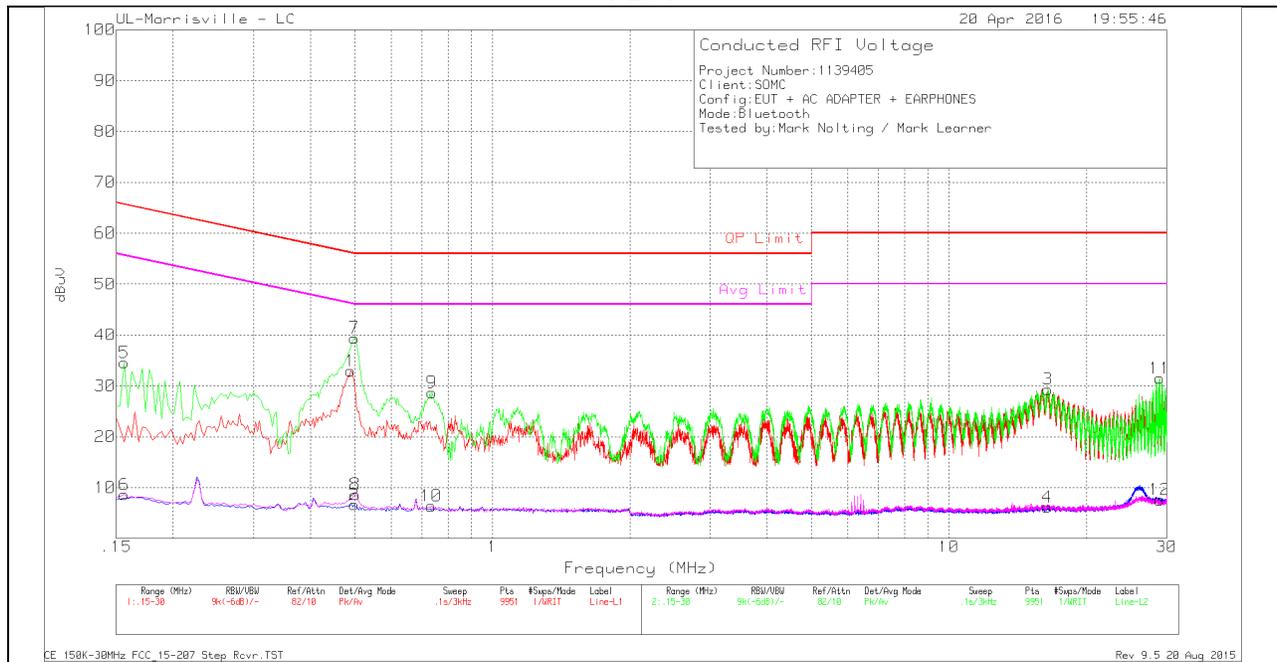
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

PLOT



RESULT

Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN VCF [dB] | Cbi/Limiter (dB) | Corrected Reading dBuV | QP Limit | Margin (dB) | Avg Limit | Margin (dB) |
|-------------------------|-----------------|----------------------|-----|---------------|------------------|------------------------|----------|-------------|-----------|-------------|
| Range 1 (Line 1) | | | | | | | | | | |
| 1 | .489 | 22.88 | Pk | .1 | 10 | 32.98 | 56.18 | -23.2 | - | - |
| 2 | .498 | -3.42 | Av | .1 | 10 | 6.68 | - | - | 46.03 | -39.35 |
| 3 | 16.467 | 18.64 | Pk | .2 | 10.5 | 29.34 | 60 | -30.66 | - | - |
| 4 | 16.401 | -4.54 | Av | .2 | 10.5 | 6.16 | - | - | 50 | -43.84 |
| Range 2 (Line 2) | | | | | | | | | | |
| 5 | .156 | 24.34 | Pk | .2 | 10 | 34.54 | 65.67 | -31.13 | - | - |
| 6 | .156 | -1.58 | Av | .2 | 10 | 8.62 | - | - | 55.67 | -47.05 |
| 7 | .498 | 29.31 | Pk | .1 | 10 | 39.41 | 56.03 | -16.62 | - | - |
| 8 | .501 | -1.33 | Av | 0 | 10 | 8.67 | - | - | 46 | -37.33 |
| 9 | .738 | 18.7 | Pk | 0 | 10 | 28.7 | 56 | -27.3 | - | - |
| 10 | .735 | -3.64 | Av | 0 | 10 | 6.36 | - | - | 46 | -39.64 |
| 11 | 28.956 | 20.46 | Pk | .3 | 10.7 | 31.46 | 60 | -28.54 | - | - |
| 12 | 28.956 | -3.41 | Av | .3 | 10.7 | 7.59 | - | - | 50 | -42.41 |

Pk - Peak detector
 Av - Average detection