

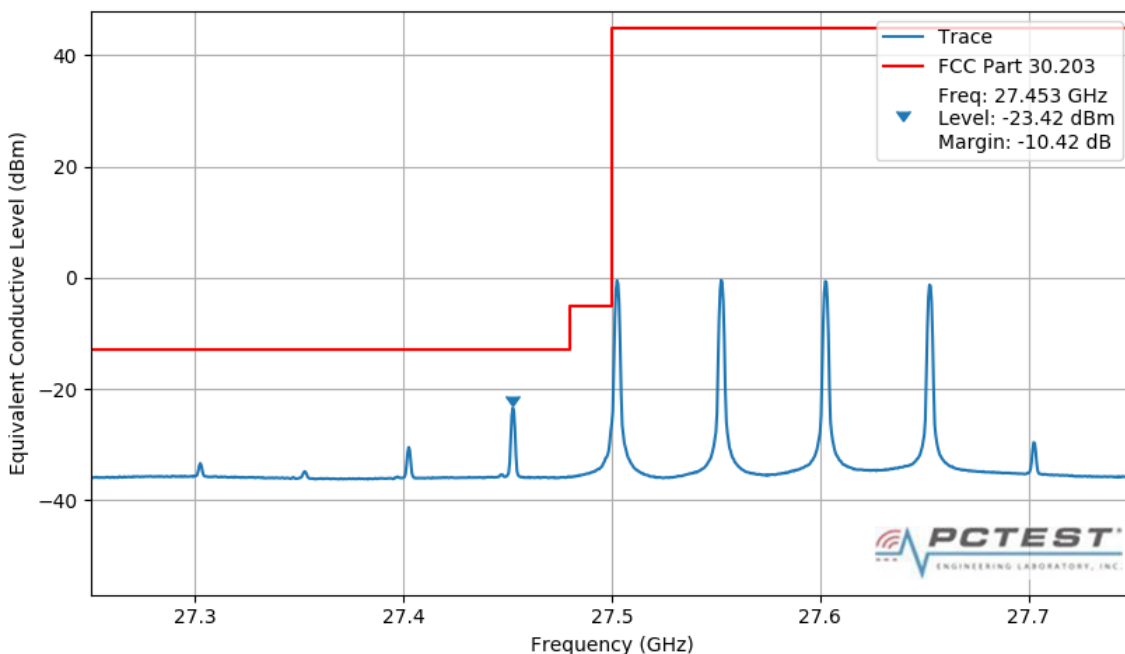
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-229. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB, 0 offset)

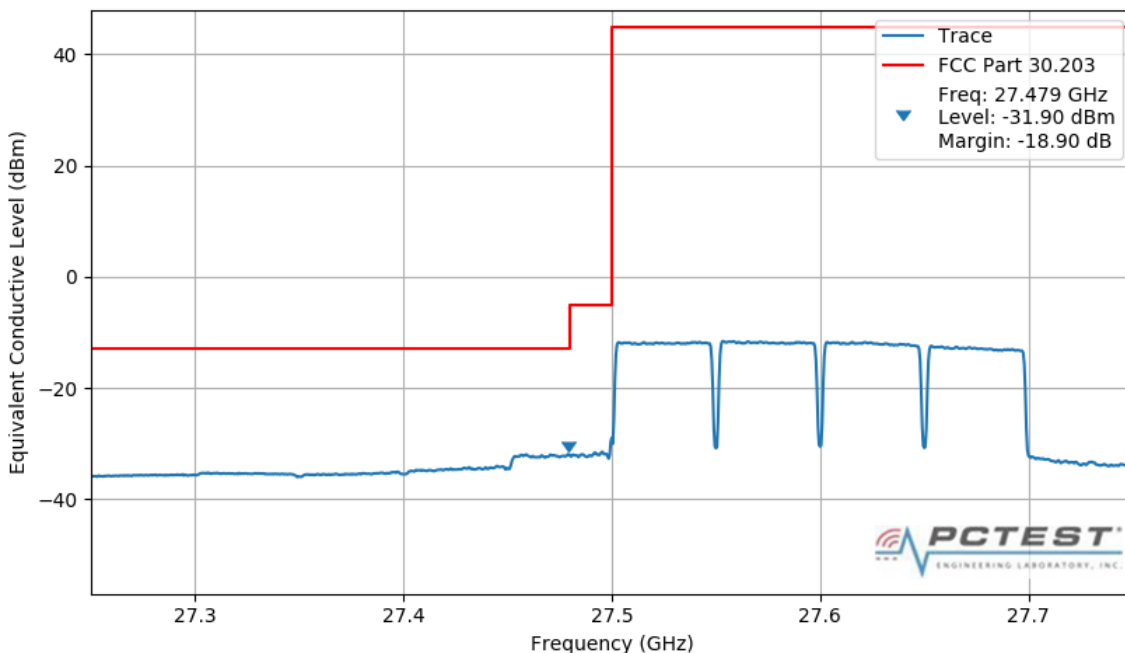
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-230. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 153 of 304                 |

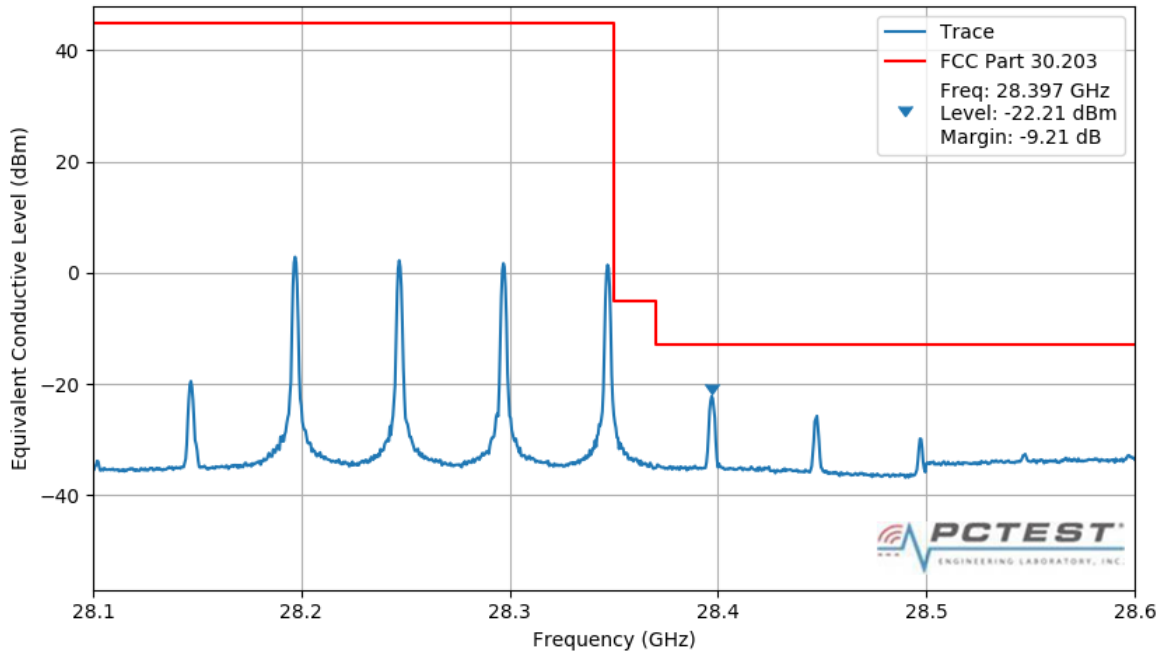
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-231. Band Edge Plot (4CC 50M QPSK High Channel – 1 RB, 31 offset)

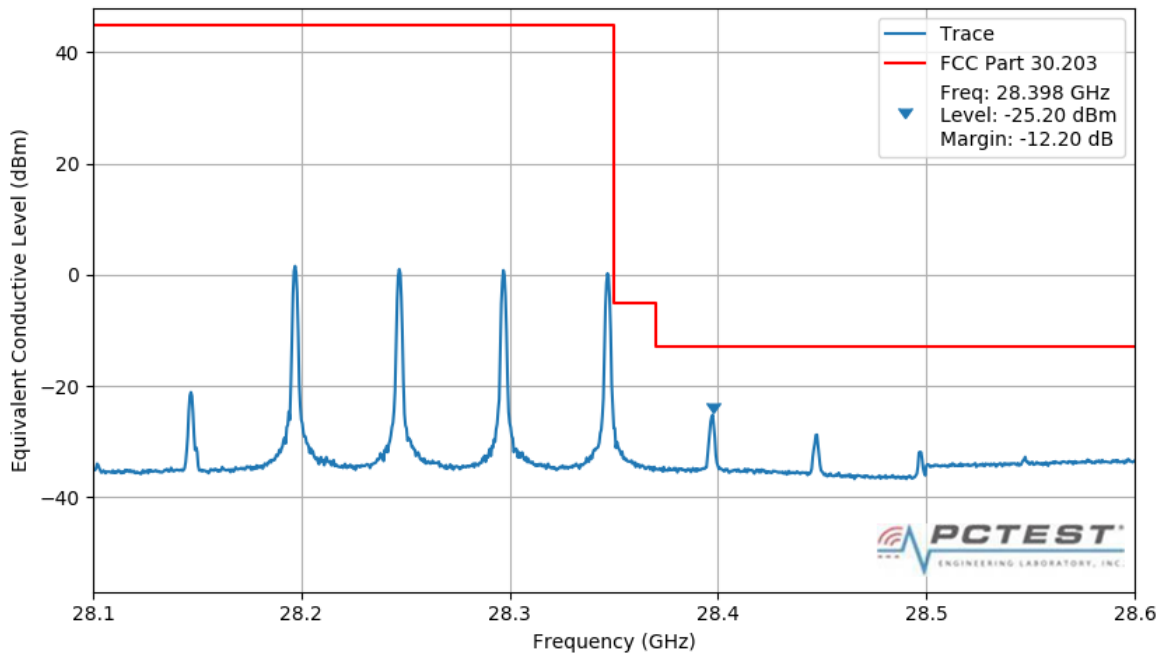
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-232. Band Edge Plot (4CC 50M 16QAM High Channel – 1 RB, 31 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 154 of 304                 |

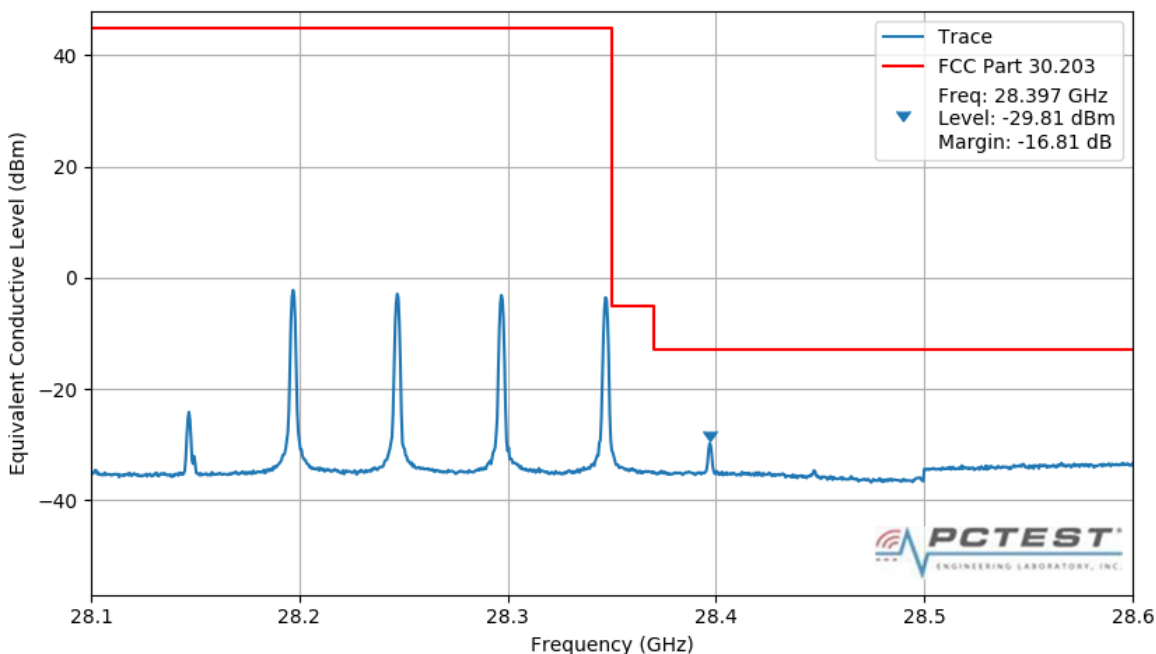
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-233. Band Edge Plot (4CC 50M 64QAM High Channel – 1 RB, 31 offset)

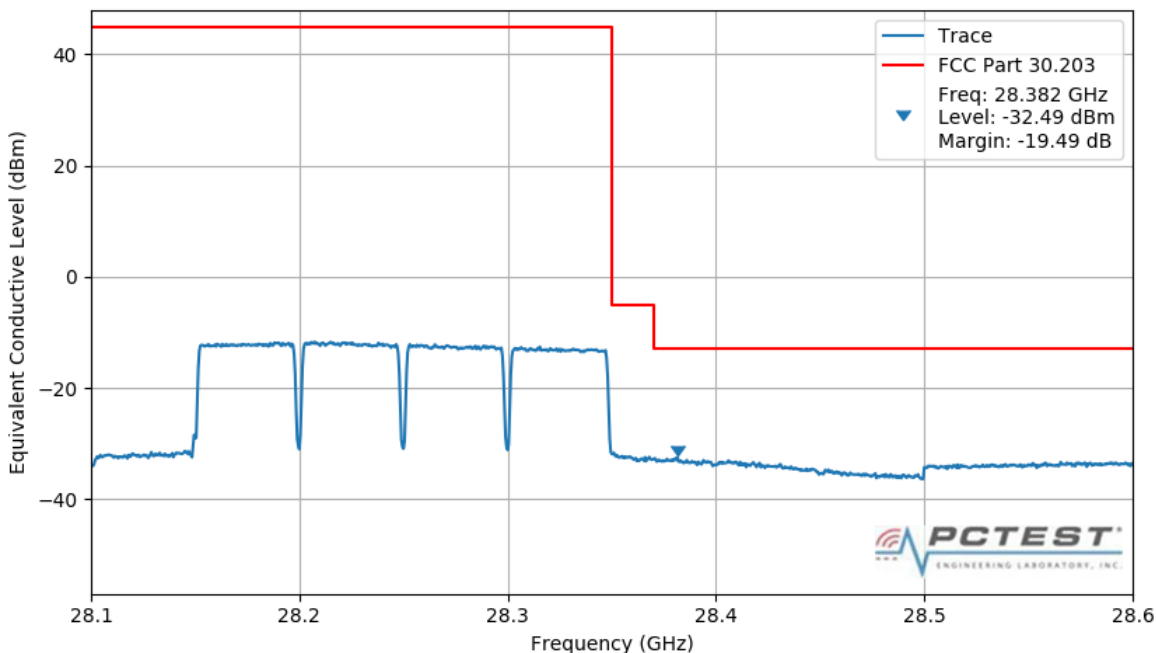
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



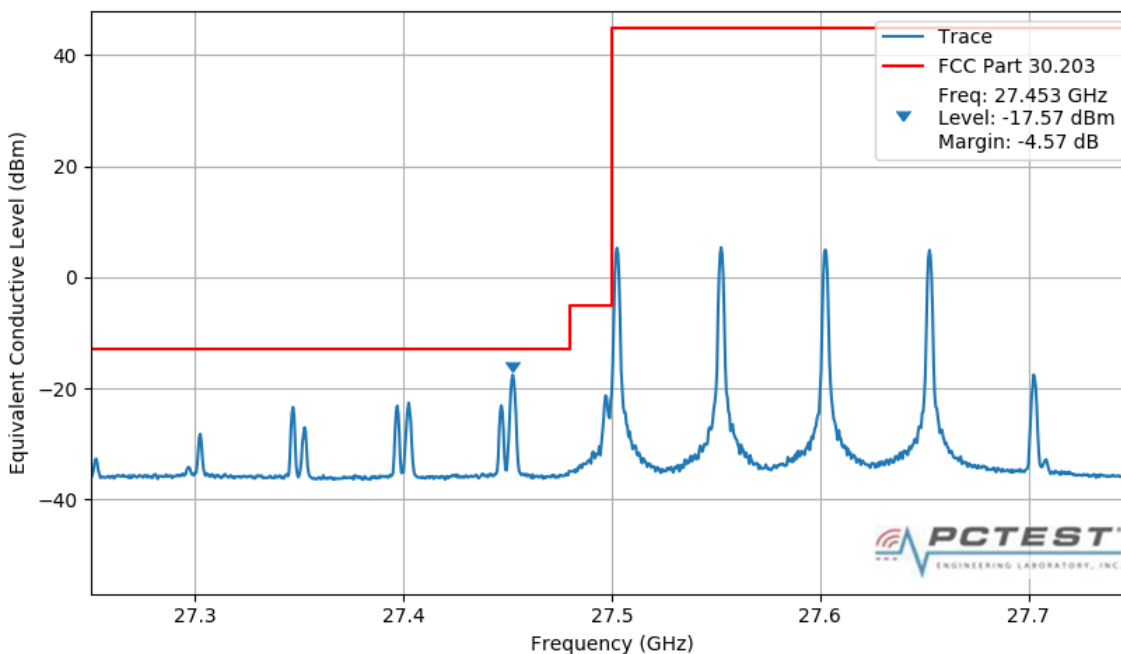
Plot 7-234. Band Edge Plot (4CC 50M QPSK High Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 155 of 304                 |

## QTM 0 - V

**PASS**

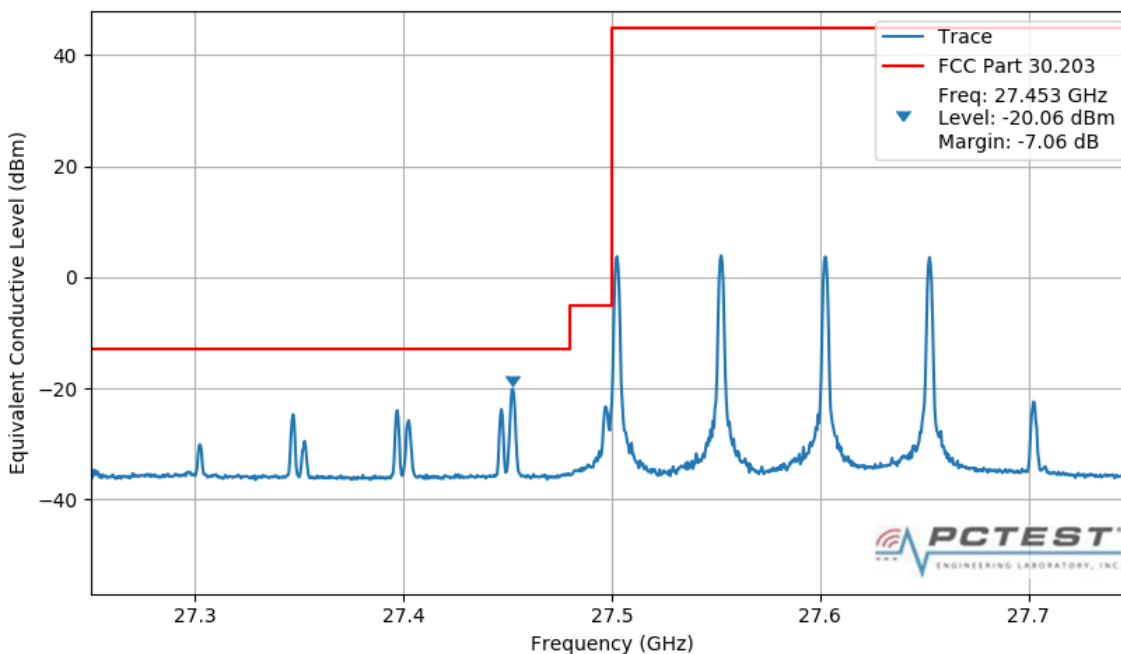
Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-235. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB, 0 offset)**

**PASS**

Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-236. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 156 of 304                 |

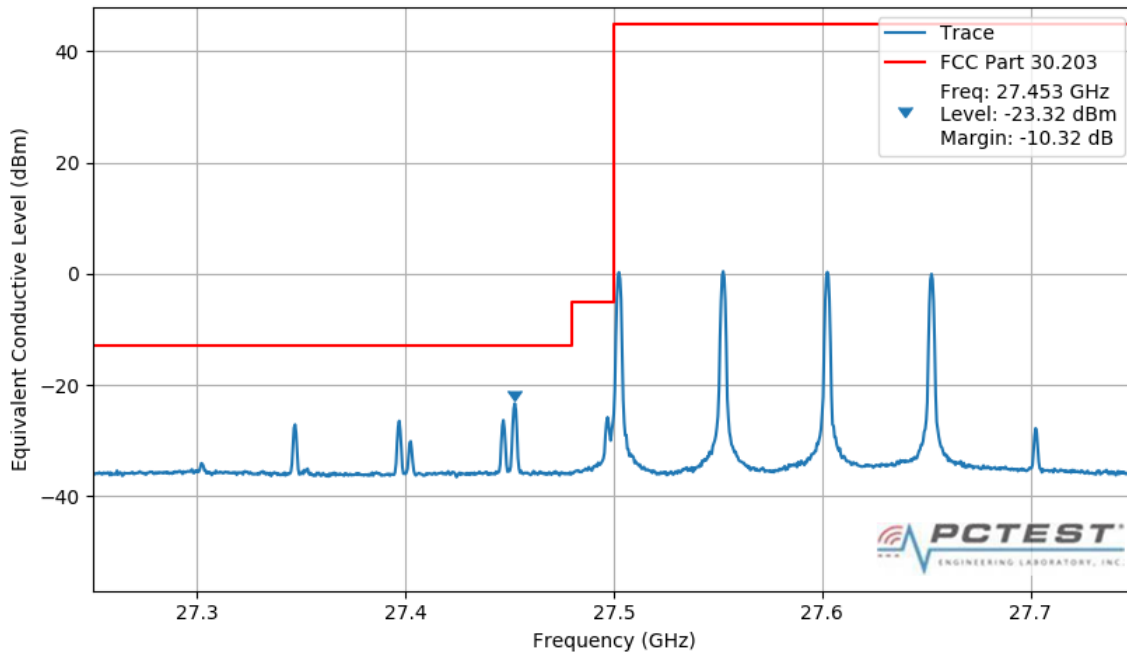
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-237. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB, 0 offset)

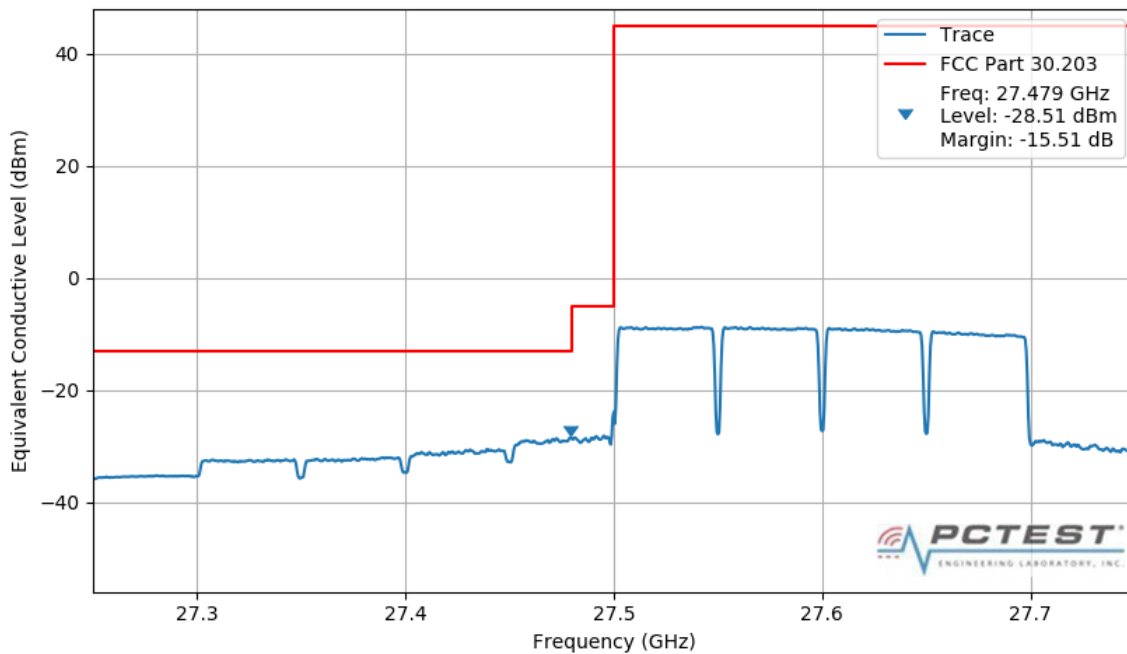
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-238. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 157 of 304                 |

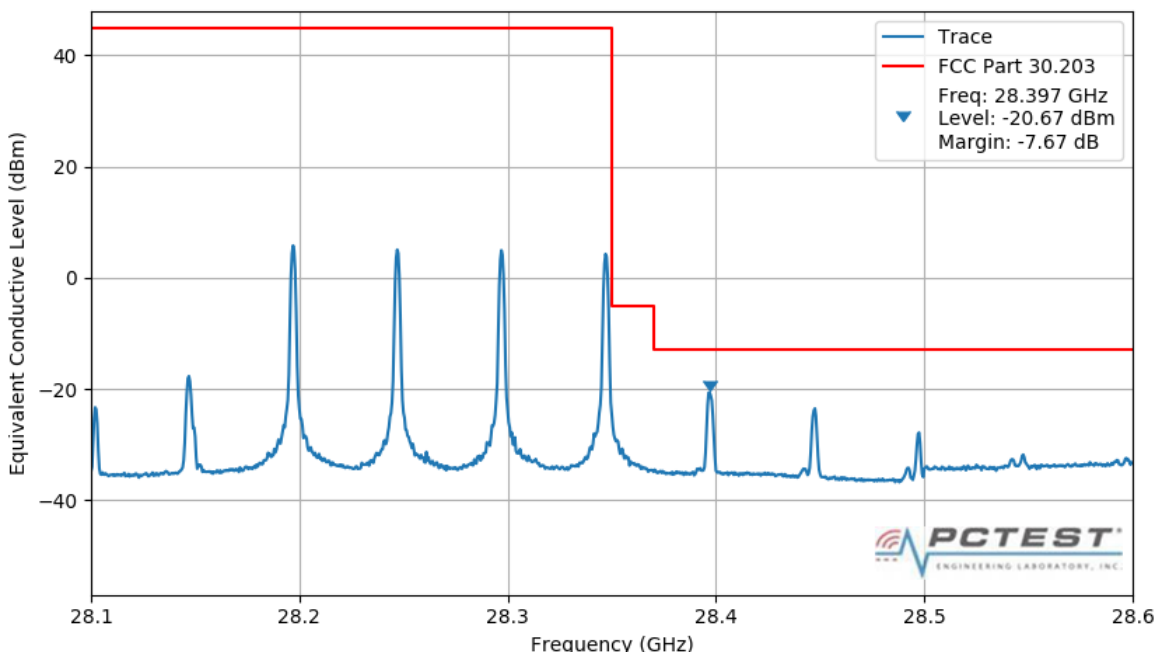
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-239. Band Edge Plot (4CC 50M QPSK High Channel – 1 RB, 31 offset)

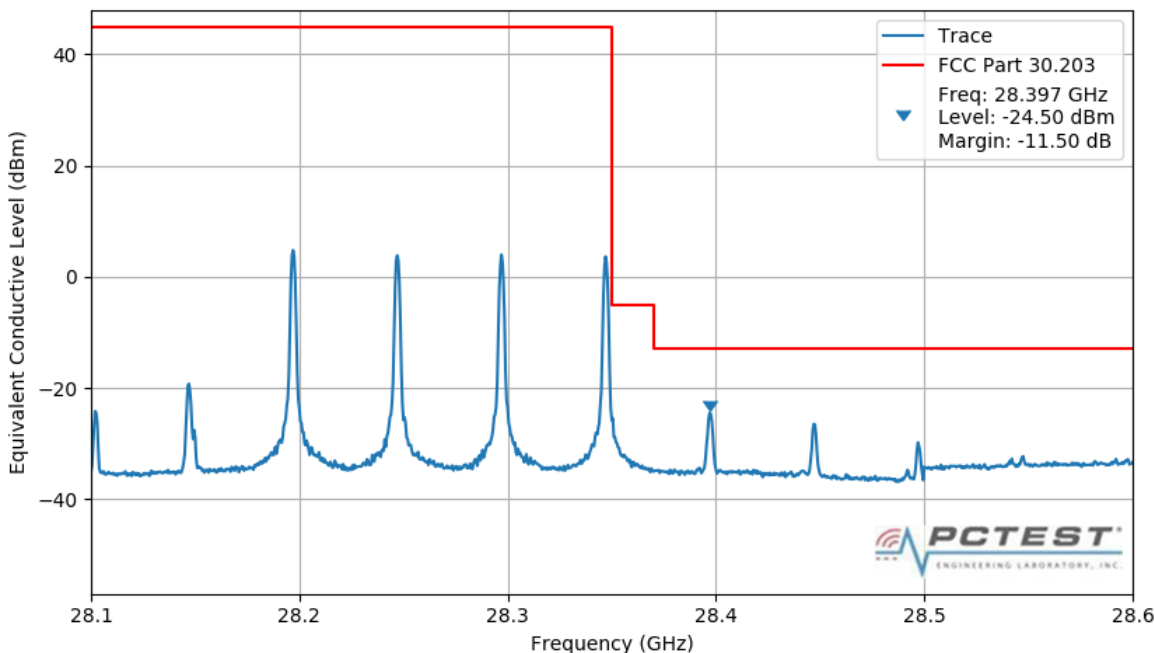
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-240. Band Edge Plot (4CC 50M 16QAM High Channel – 1 RB, 31 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 158 of 304                 |

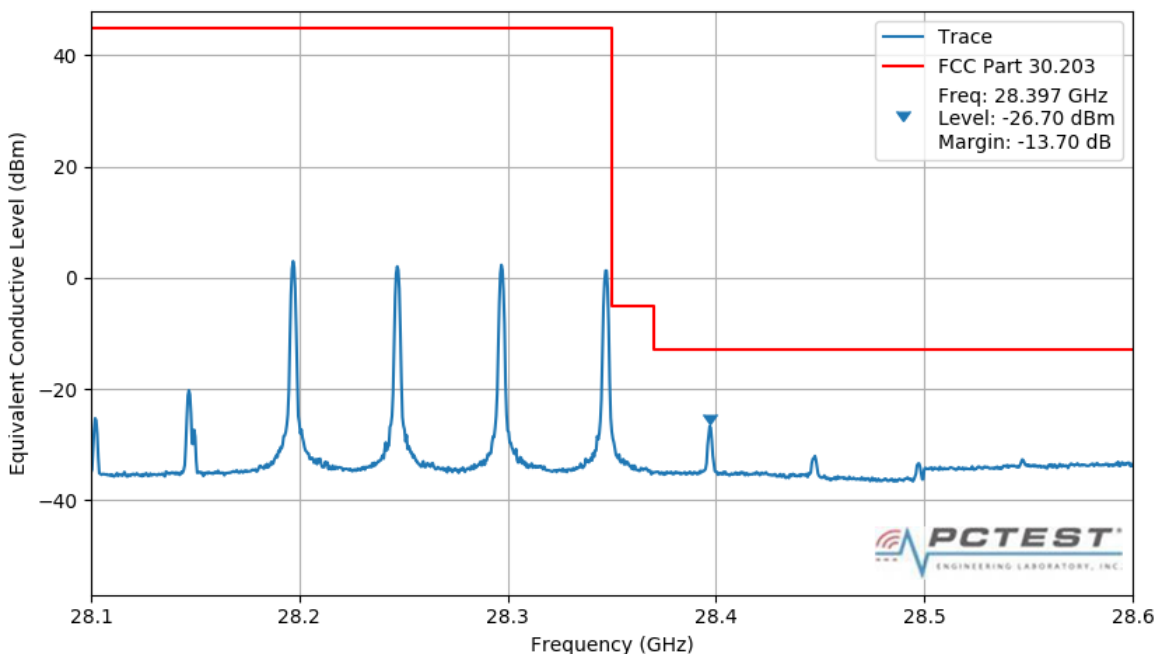
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-241. Band Edge Plot (4CC 50M 64QAM High Channel – 1 RB, 31 offset)

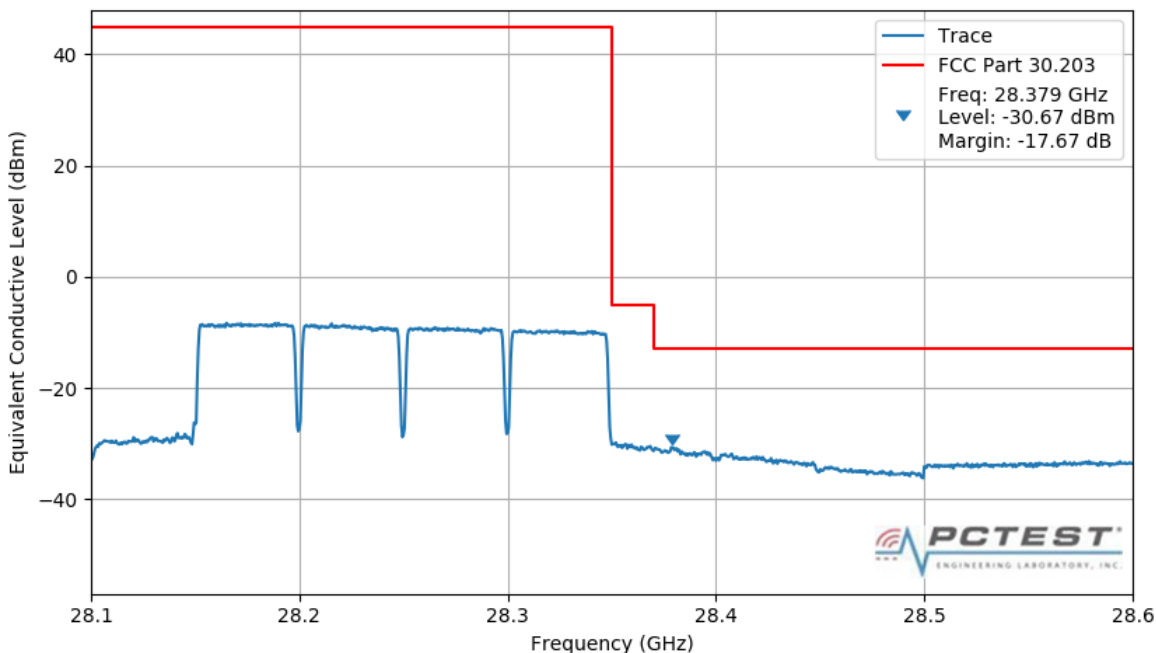
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



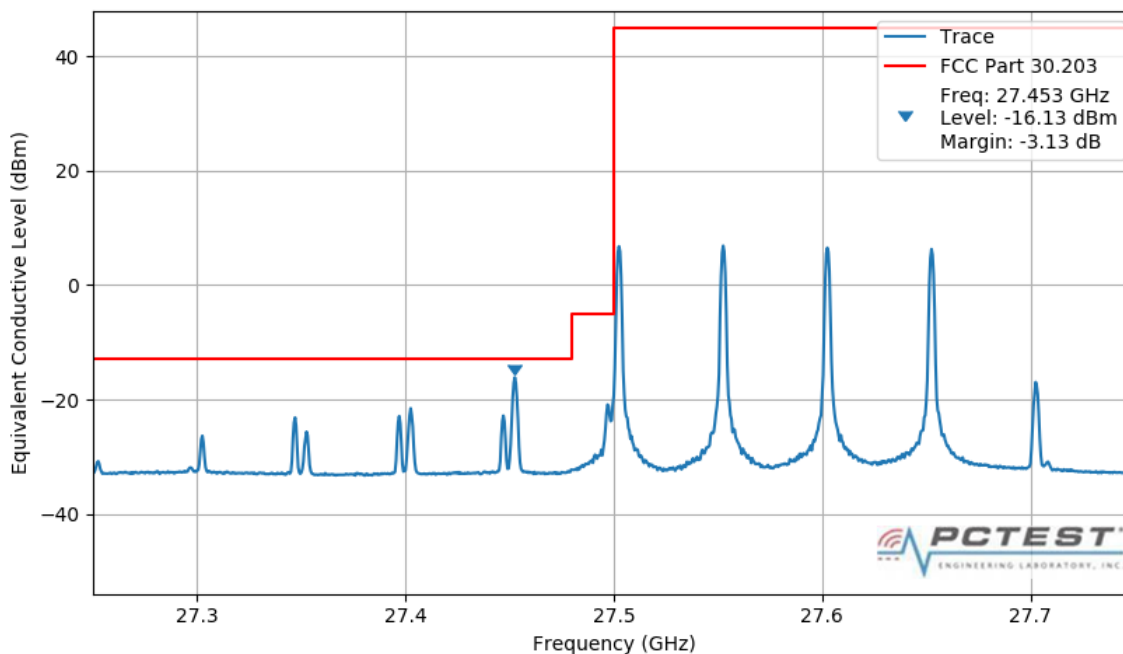
Plot 7-242. Band Edge Plot (4CC 50M QPSK High Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 159 of 304                 |

# QTM 0 - H + V

**PASS**

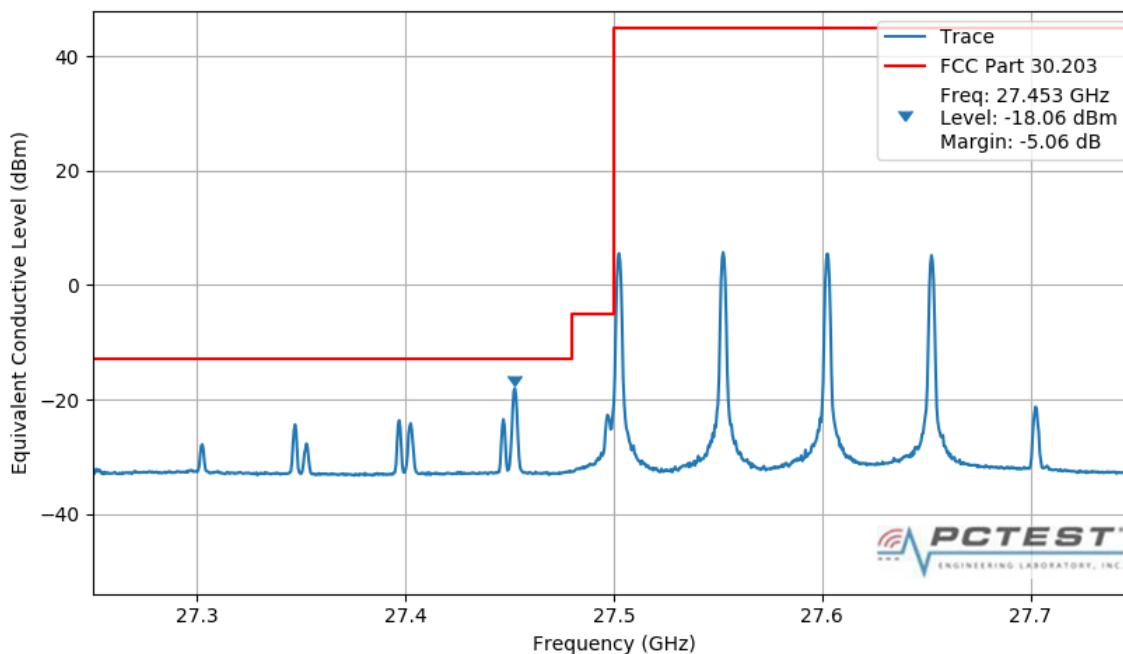
Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-243. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB, 0 offset)**

**PASS**

Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-244. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 160 of 304                 |

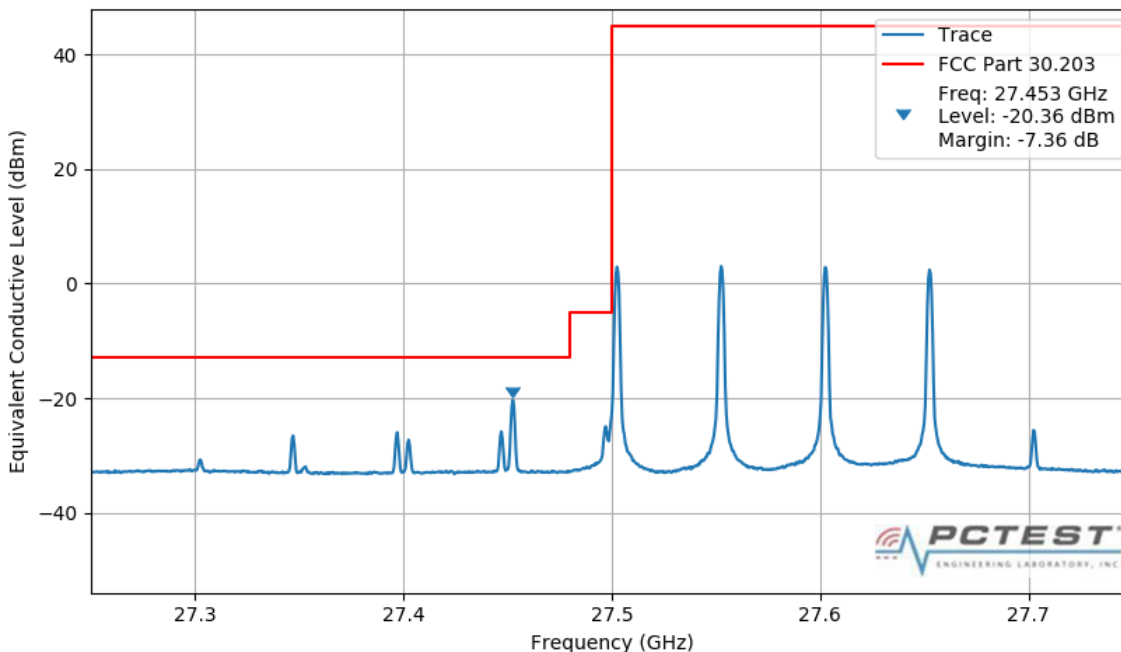
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-245. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB, 0 offset)

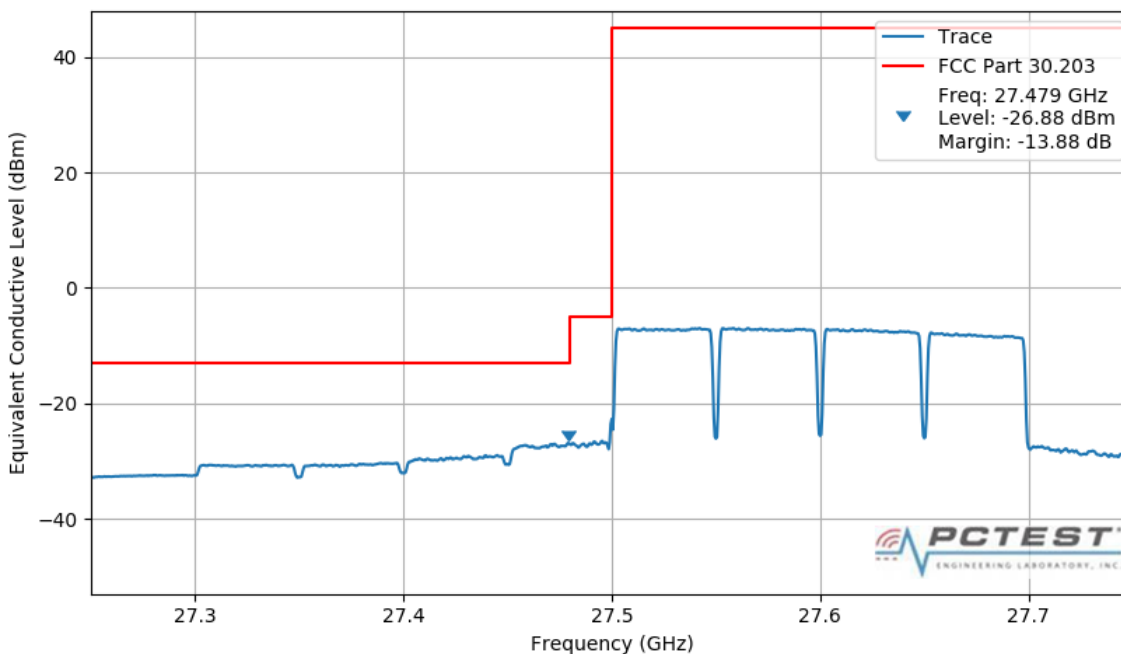
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-246. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 161 of 304                 |

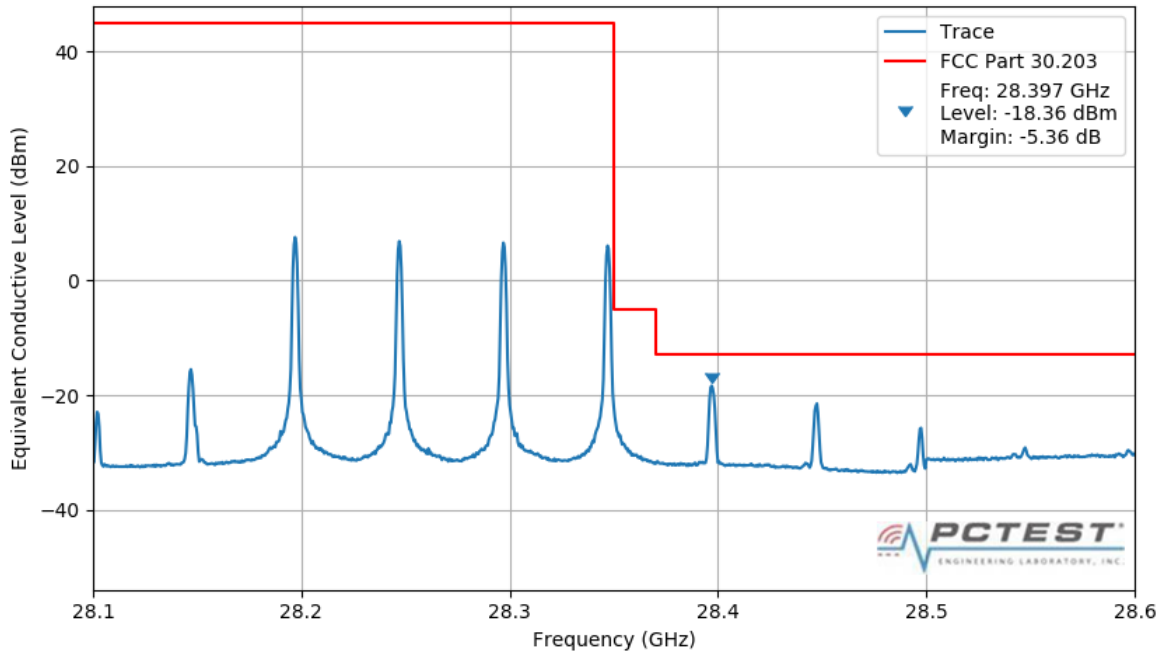
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-247. Band Edge Plot (4CC 50M QPSK High Channel – 1 RB, 31 offset)

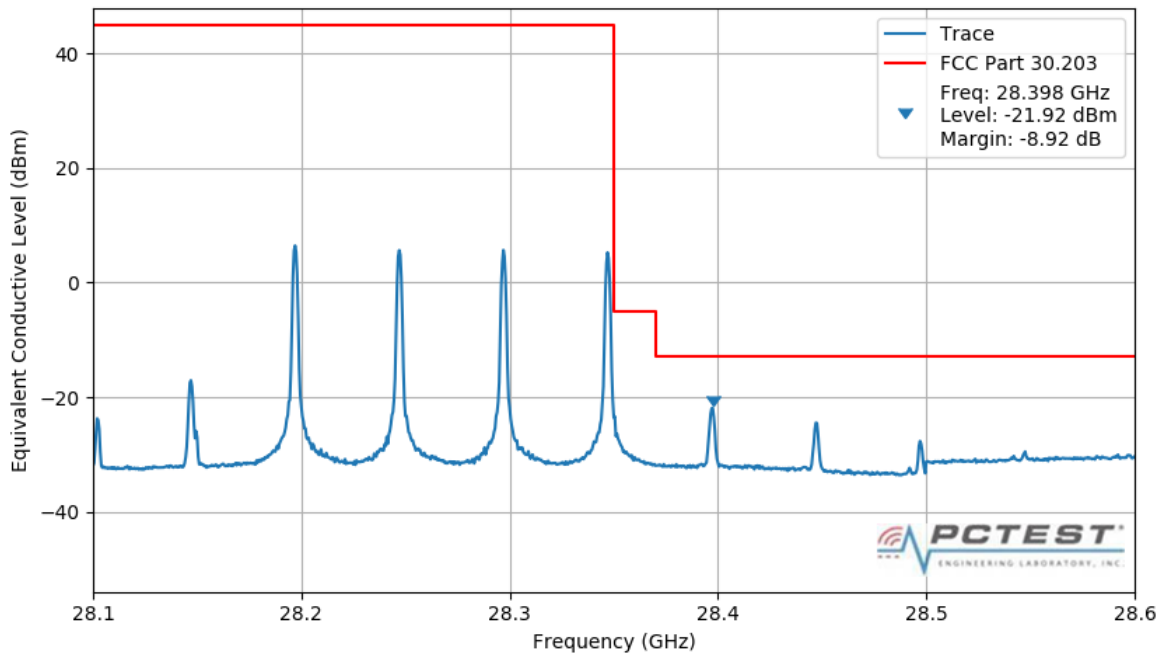
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-248. Band Edge Plot (4CC 50M 16QAM High Channel – 1 RB, 31 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 162 of 304                 |

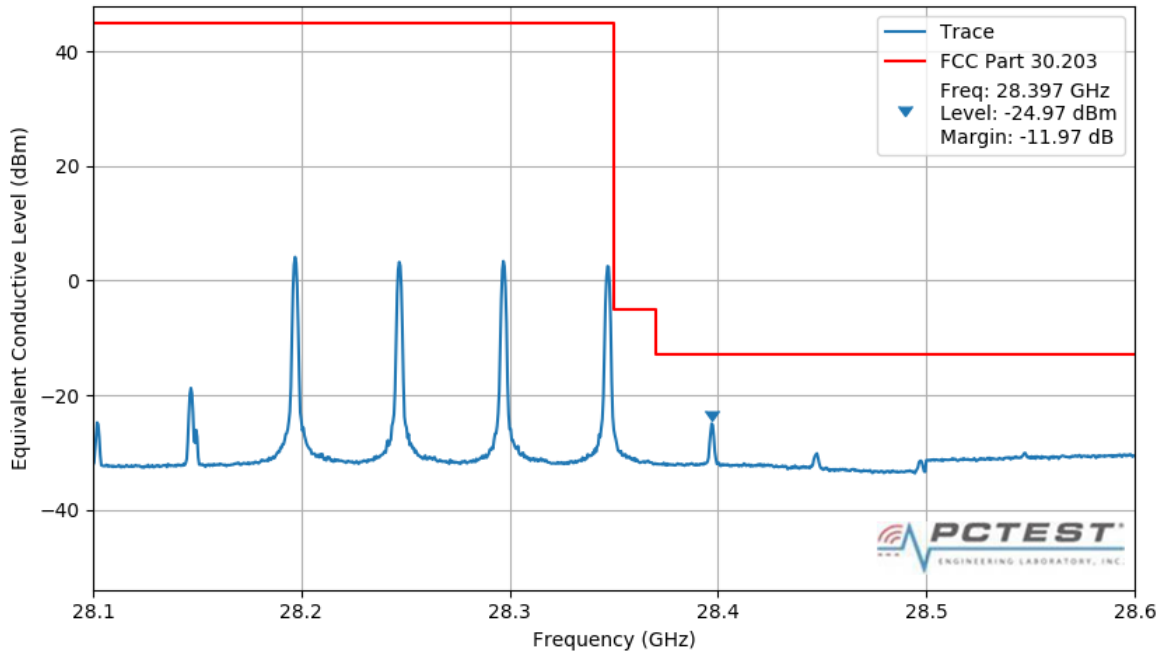
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-249. Band Edge Plot (4CC 50M 64QAM High Channel – 1 RB, 31 offset)

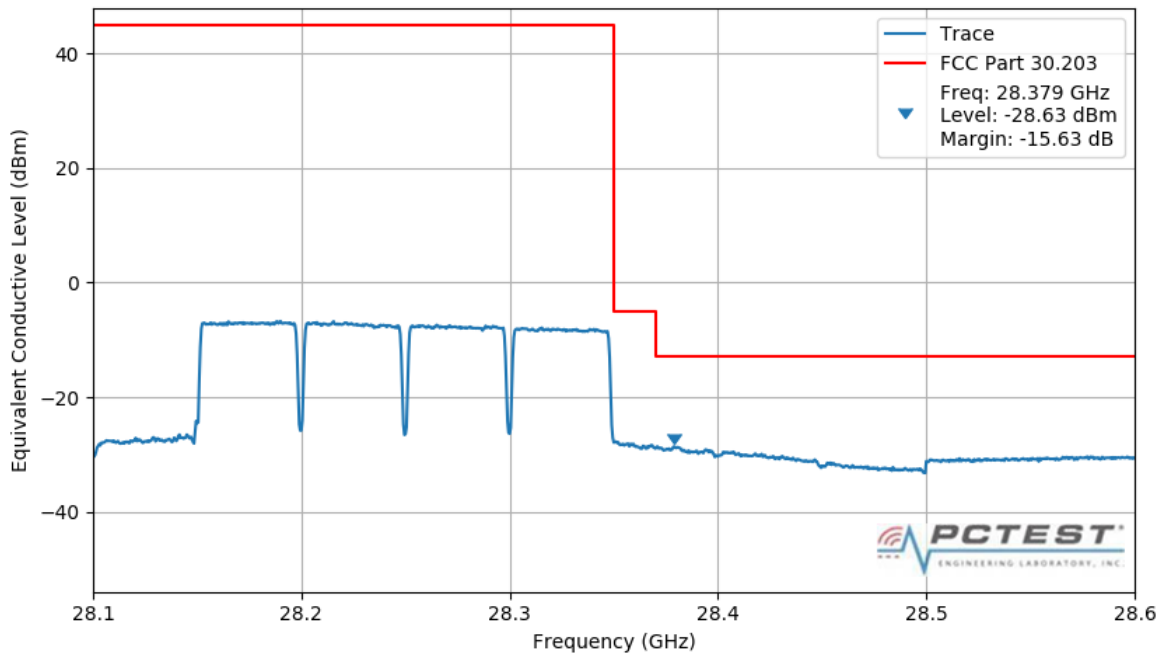
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



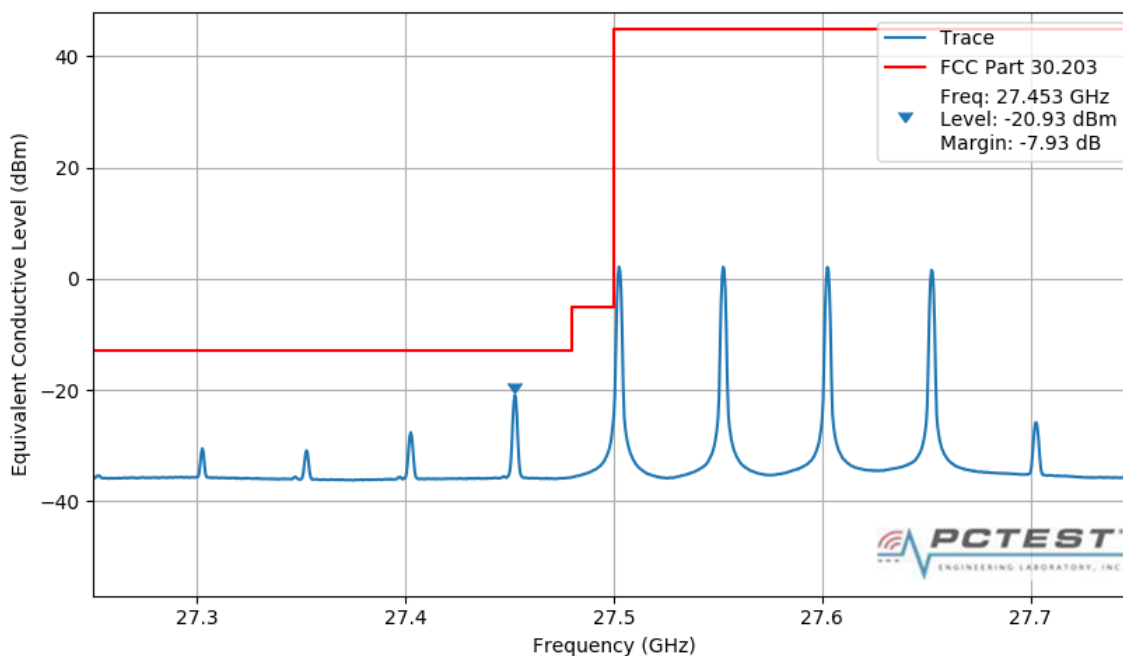
Plot 7-250. Band Edge Plot (4CC 50M QPSK High Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 163 of 304                 |

## QTM 1 - H

**PASS**

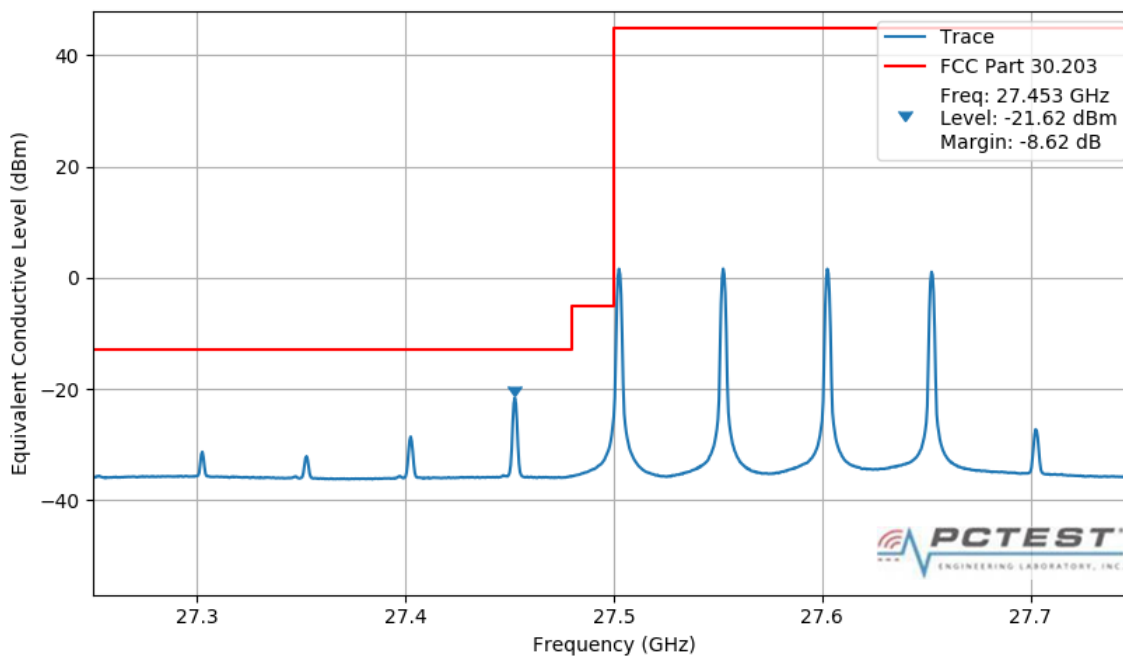
Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-251. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB, 0 offset)**

**PASS**

Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-252. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 164 of 304                 |

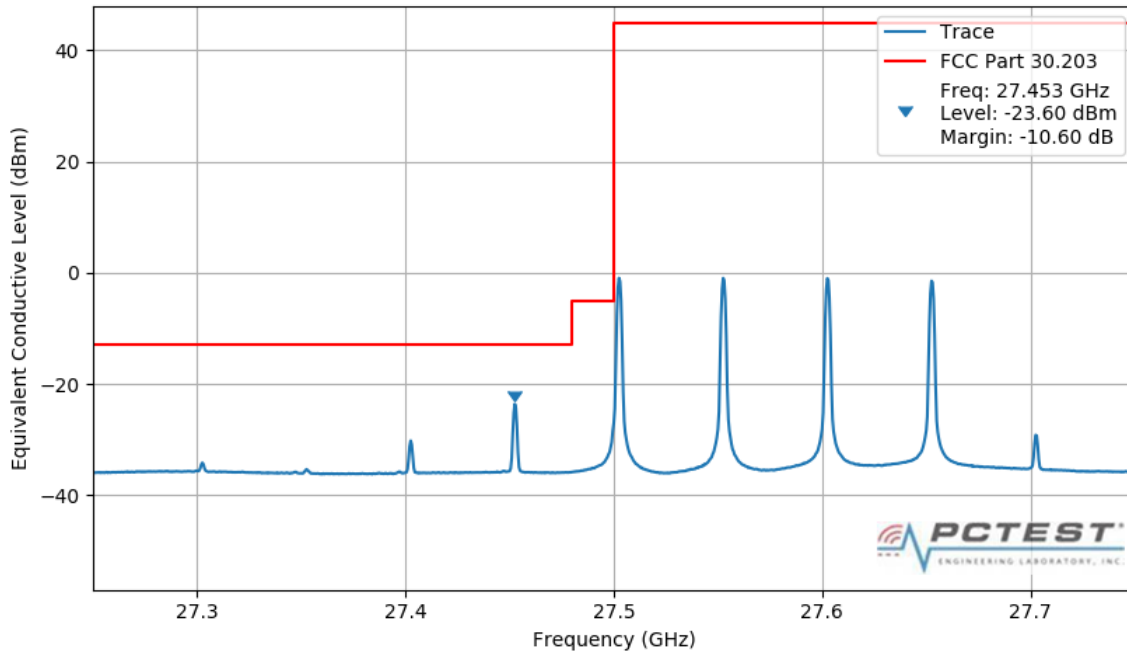
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-253. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB, 0 offset)

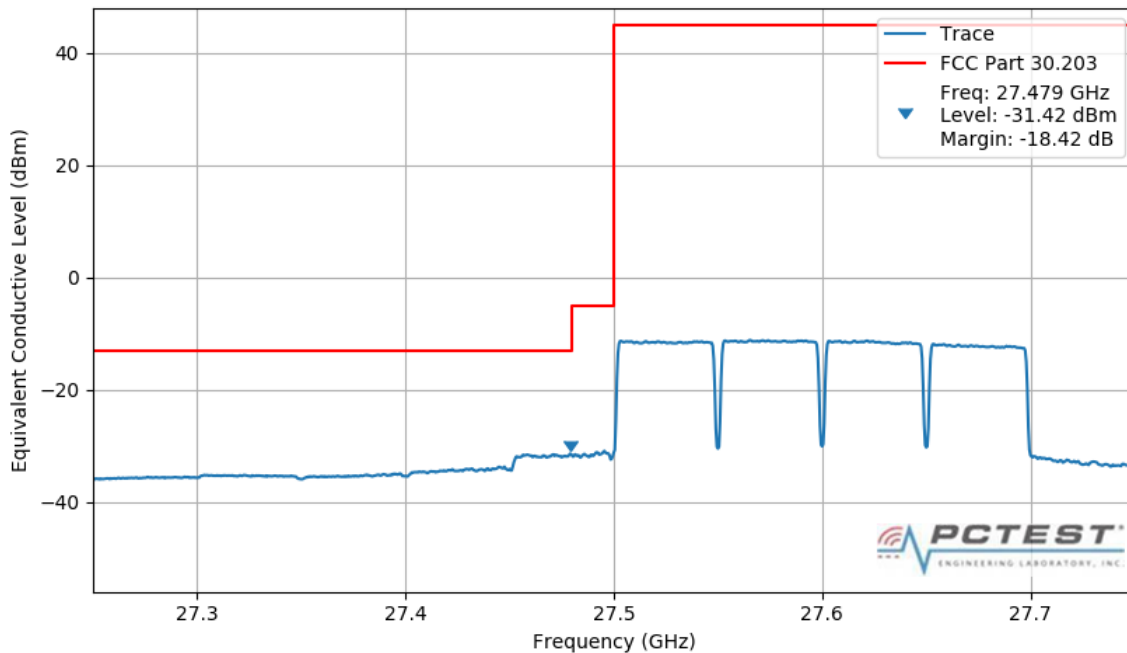
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-254. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 165 of 304                 |

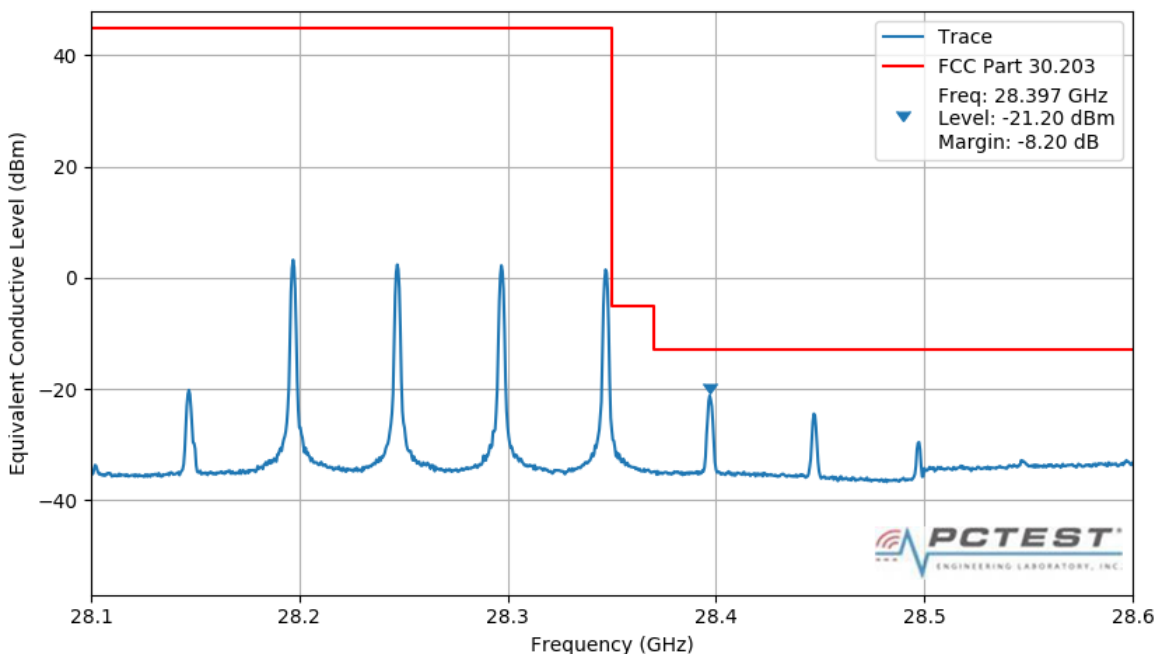
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-255. Band Edge Plot (4CC 50M QPSK High Channel – 1 RB, 31 offset)

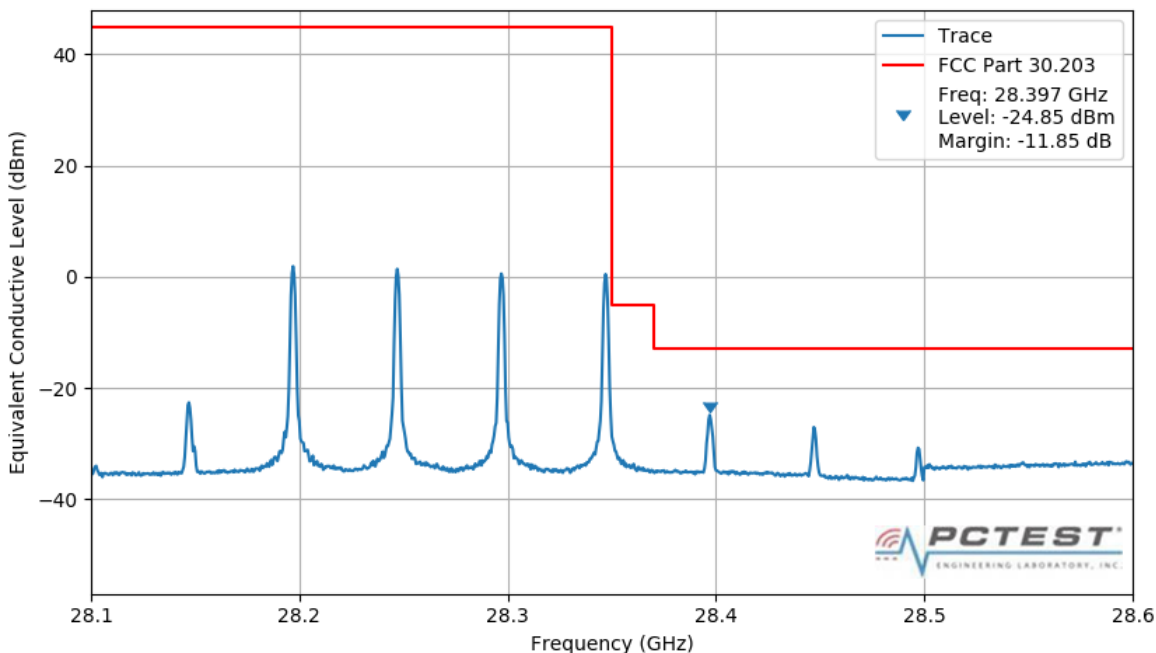
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-256. Band Edge Plot (4CC 50M 16QAM High Channel – 1 RB, 31 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 166 of 304                 |

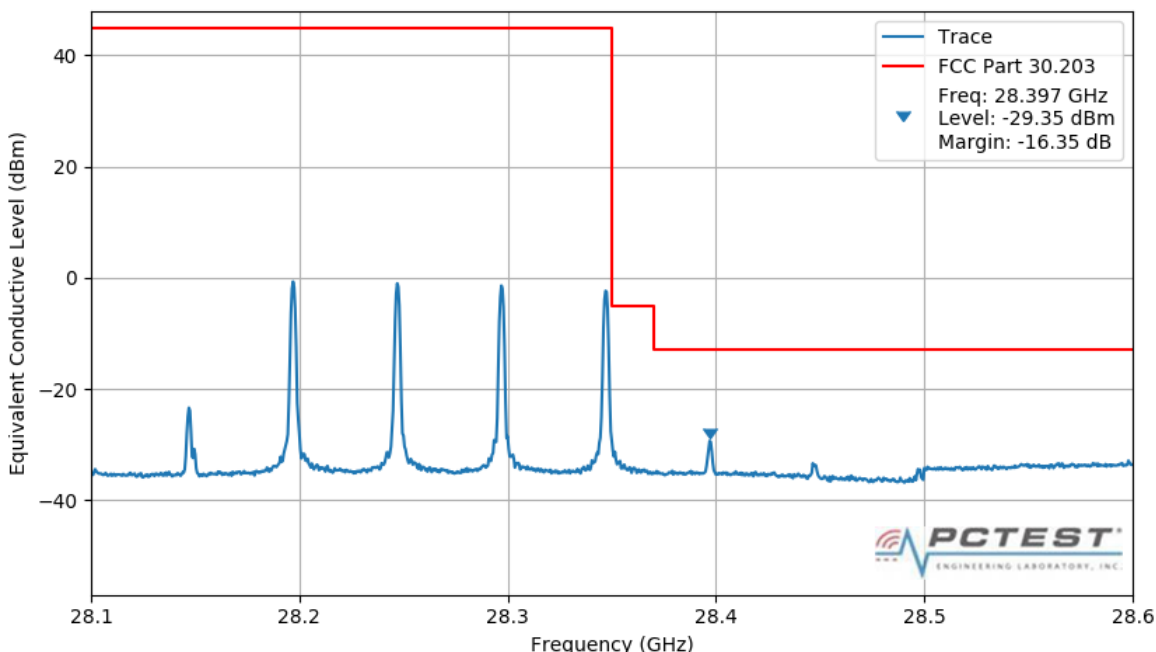
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-257. Band Edge Plot (4CC 50M 64QAM High Channel – 1 RB, 31 offset)

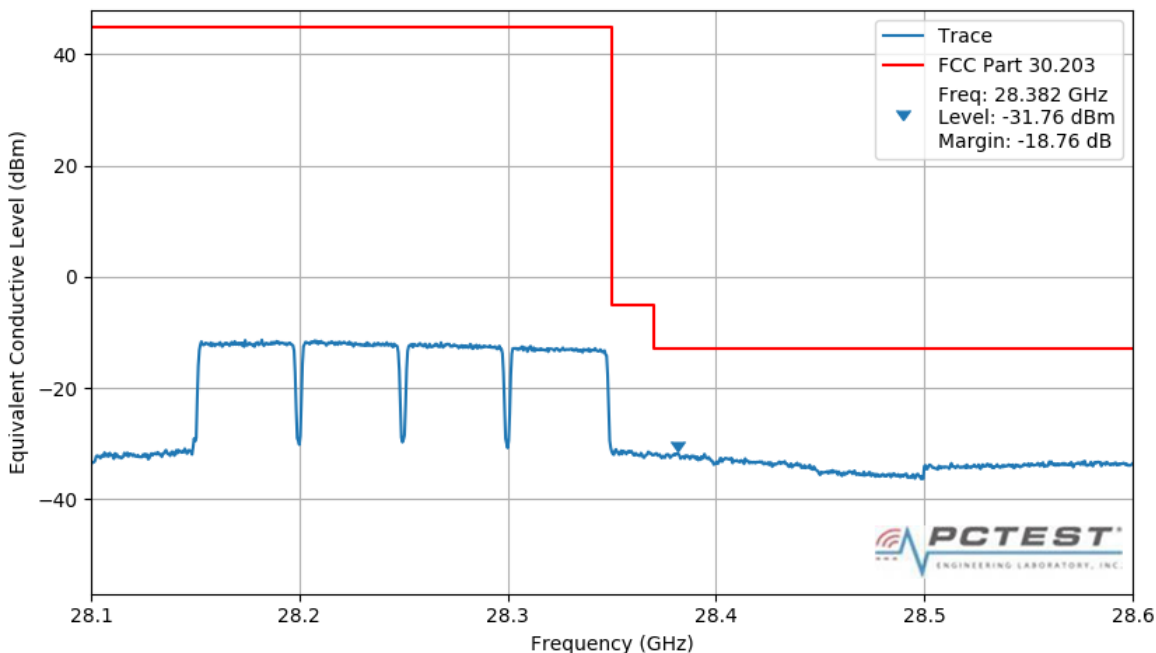
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



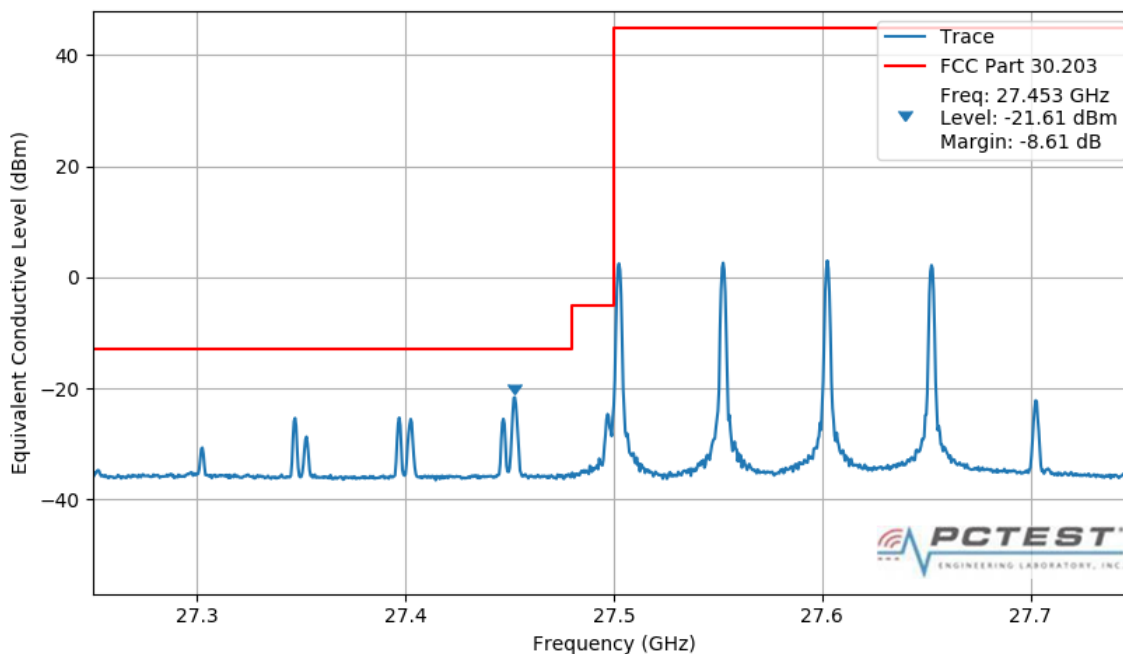
Plot 7-258. Band Edge Plot (4CC 50M QPSK High Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 167 of 304                 |

## QTM 1 - V

**PASS**

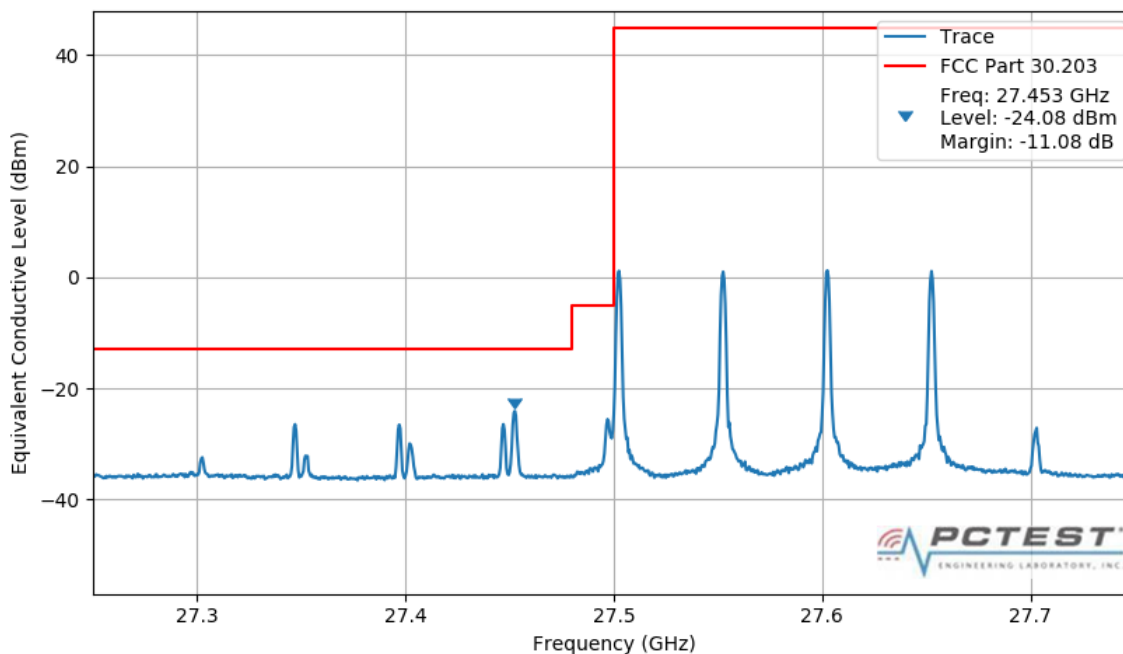
Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-259. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB, 0 offset)**

**PASS**

Center Freq: 27.50 GHz Trace: AVERAGE RBW: 1 MHz SWP points: 1001  
Span: 500 MHz Detector: RMS VBW: 3 MHz  
Ref Level: 43.53 dBm Offset: 43.53 dB SWP Count: 100



**Plot 7-260. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 168 of 304                 |

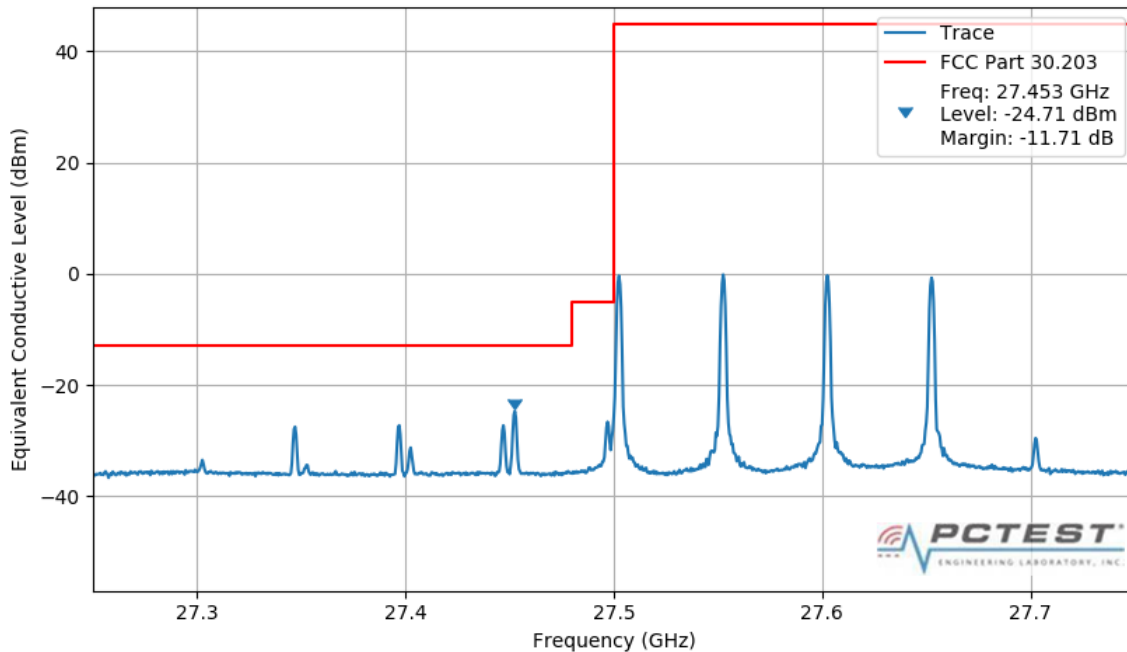
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-261. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB, 0 offset)

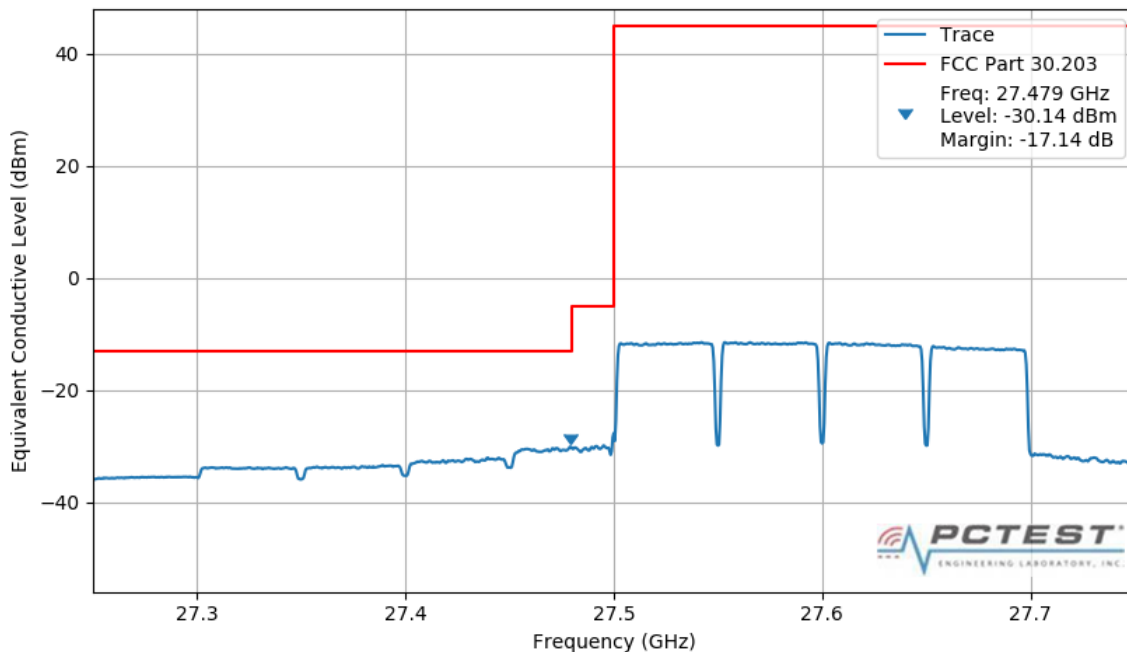
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-262. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 169 of 304                 |

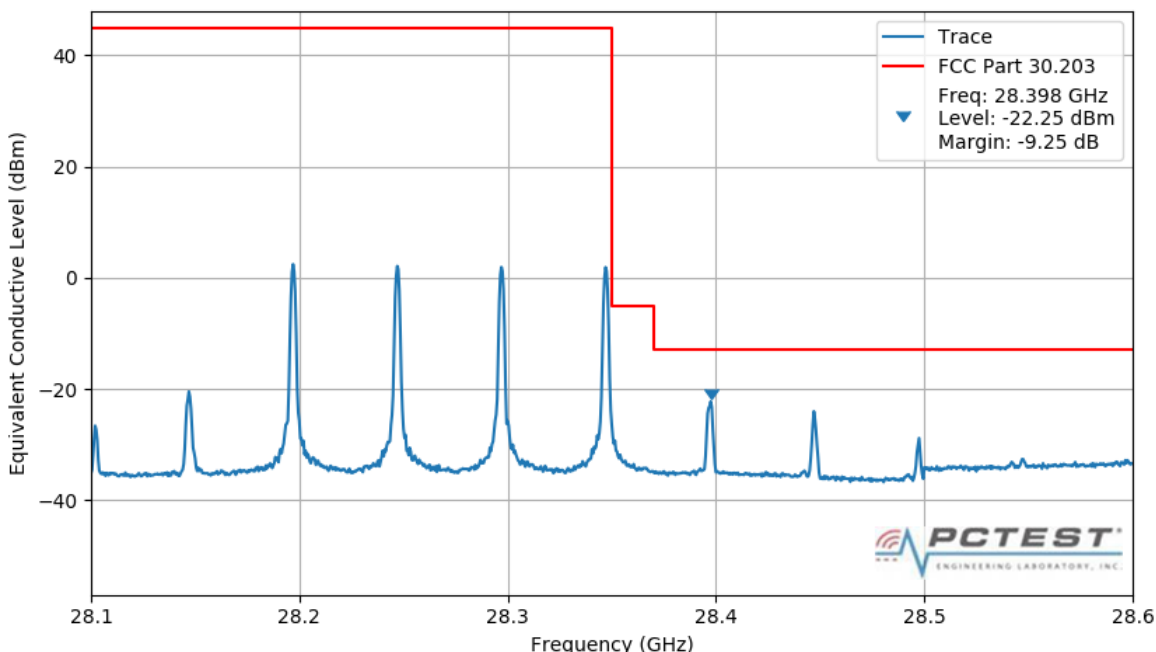
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-263. Band Edge Plot (4CC 50M QPSK High Channel – 1 RB, 31 offset)

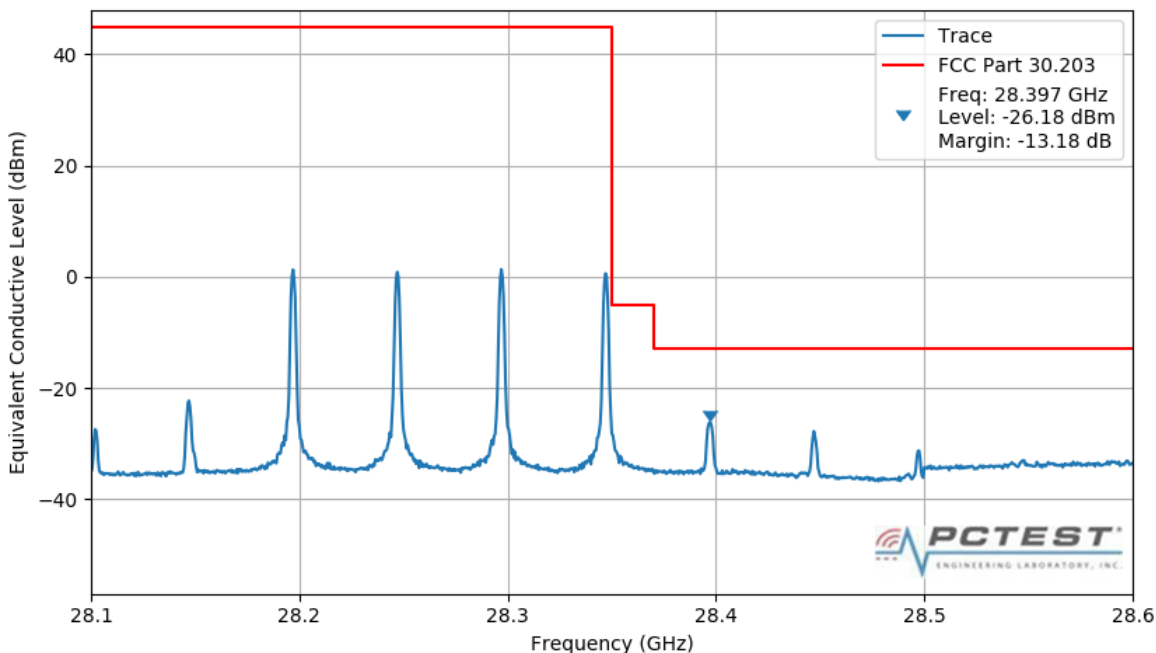
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-264. Band Edge Plot (4CC 50M 16QAM High Channel – 1 RB, 31 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 170 of 304                 |

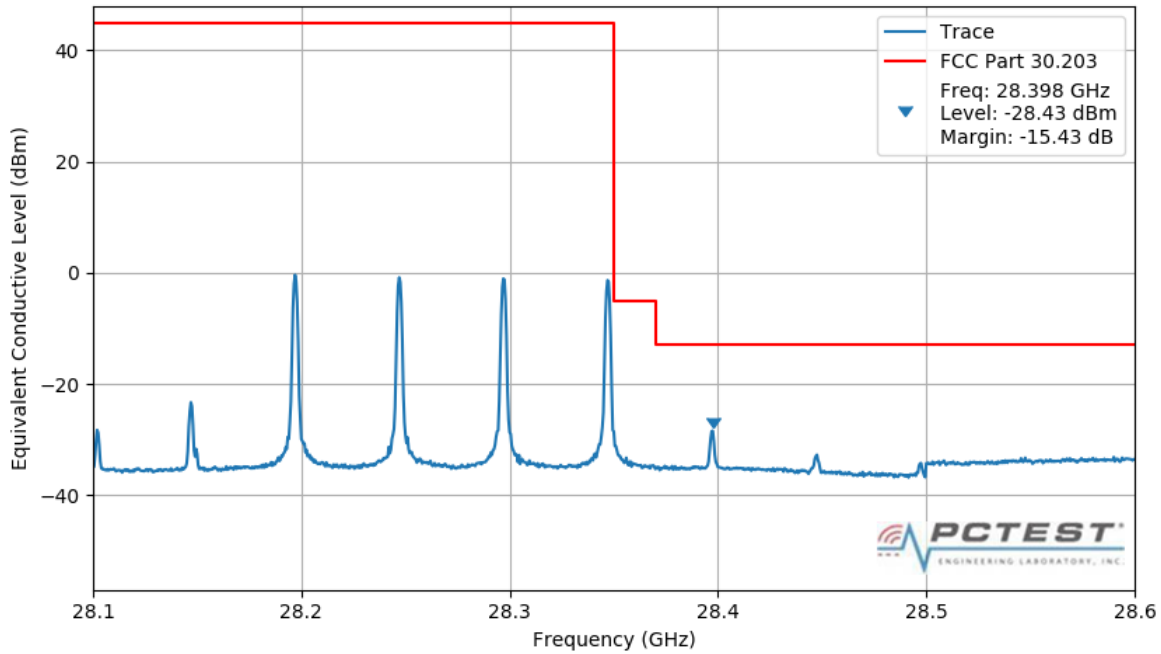
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-265. Band Edge Plot (4CC 50M 64QAM High Channel – 1 RB, 31 offset)

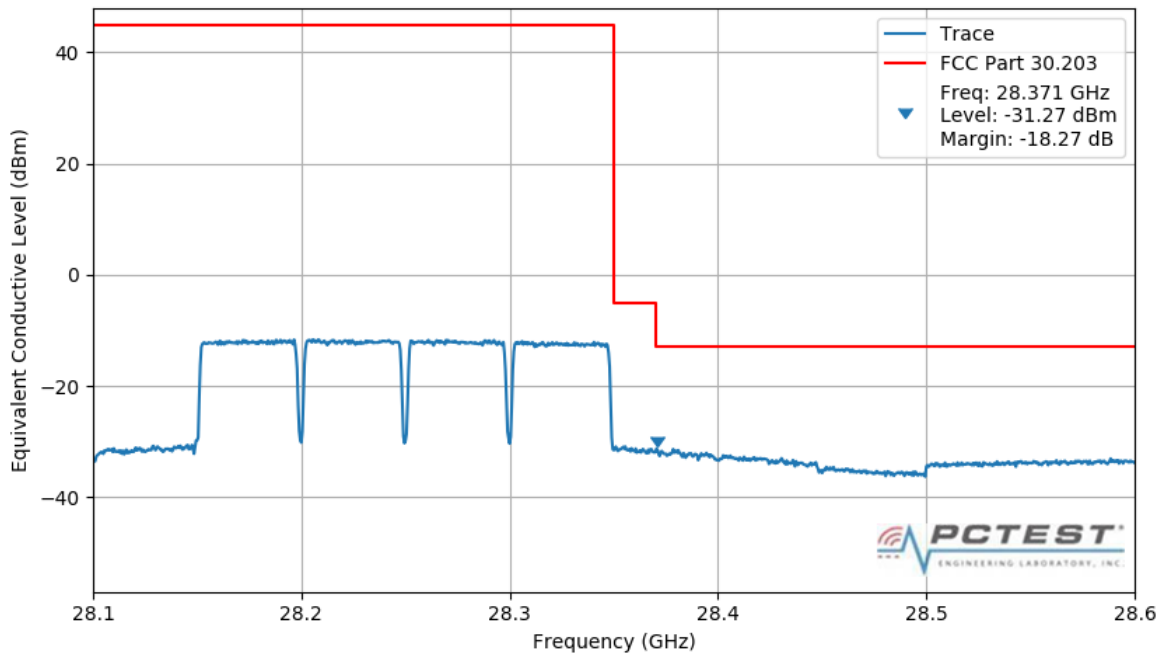
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-266. Band Edge Plot (4CC 50M QPSK High Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 171 of 304                 |

## QTM 1 - H + V

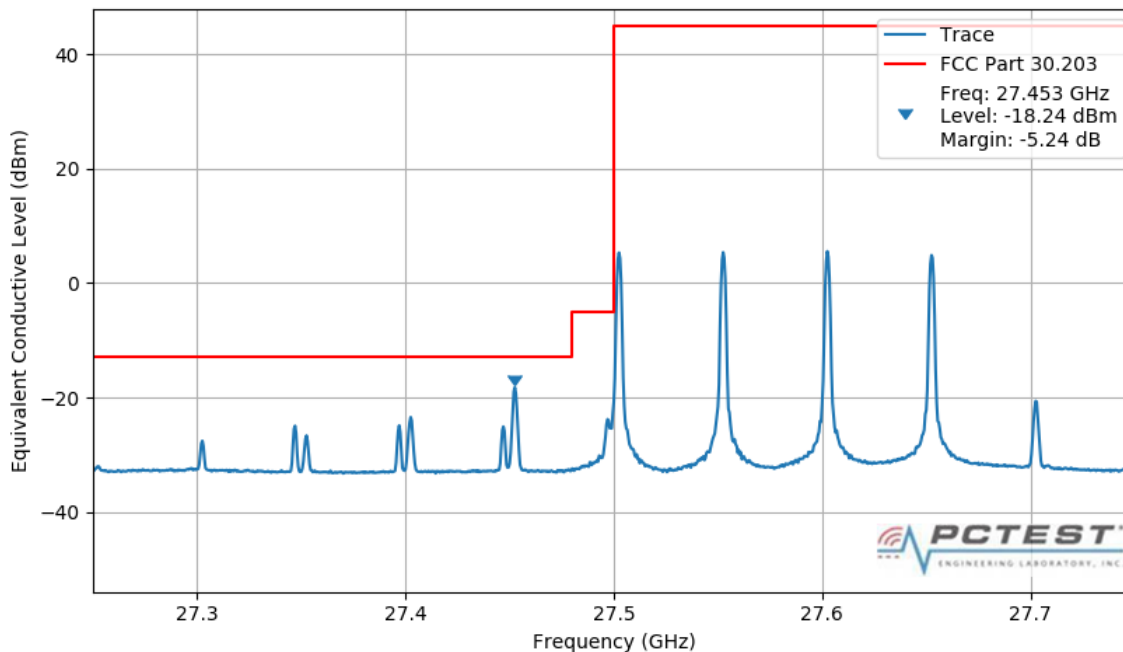
**PASS**

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



**Plot 7-267. Band Edge Plot (4CC 50M QPSK Low Channel – 1 RB, 0 offset)**

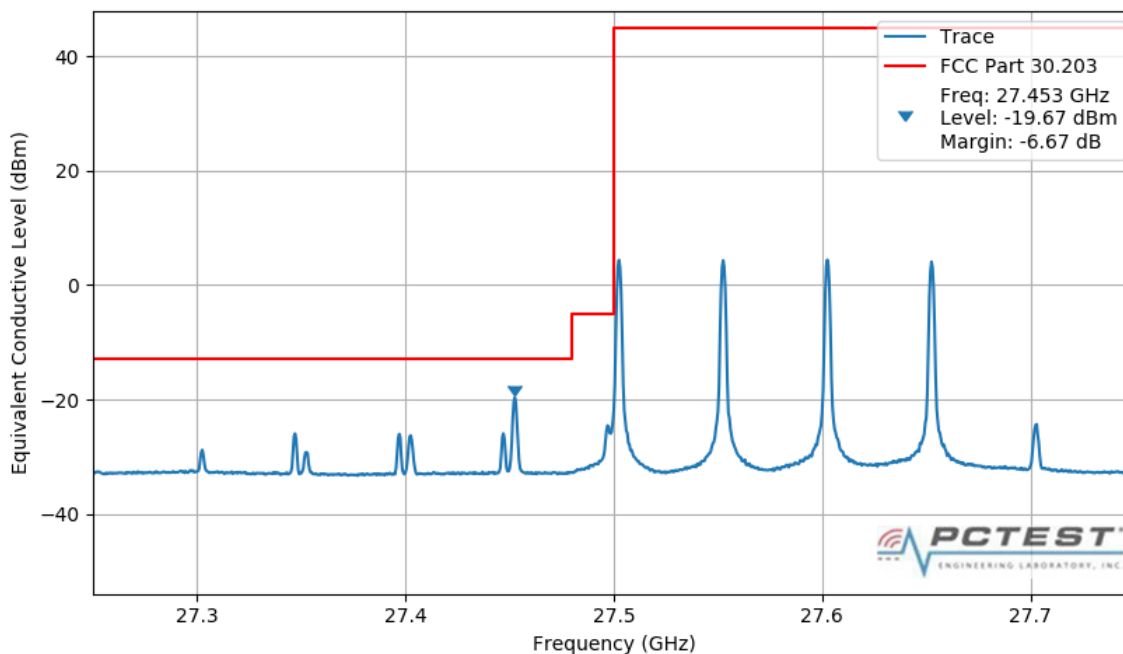
**PASS**

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



**Plot 7-268. Band Edge Plot (4CC 50M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |  |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|--|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |  | Page 172 of 304                 |

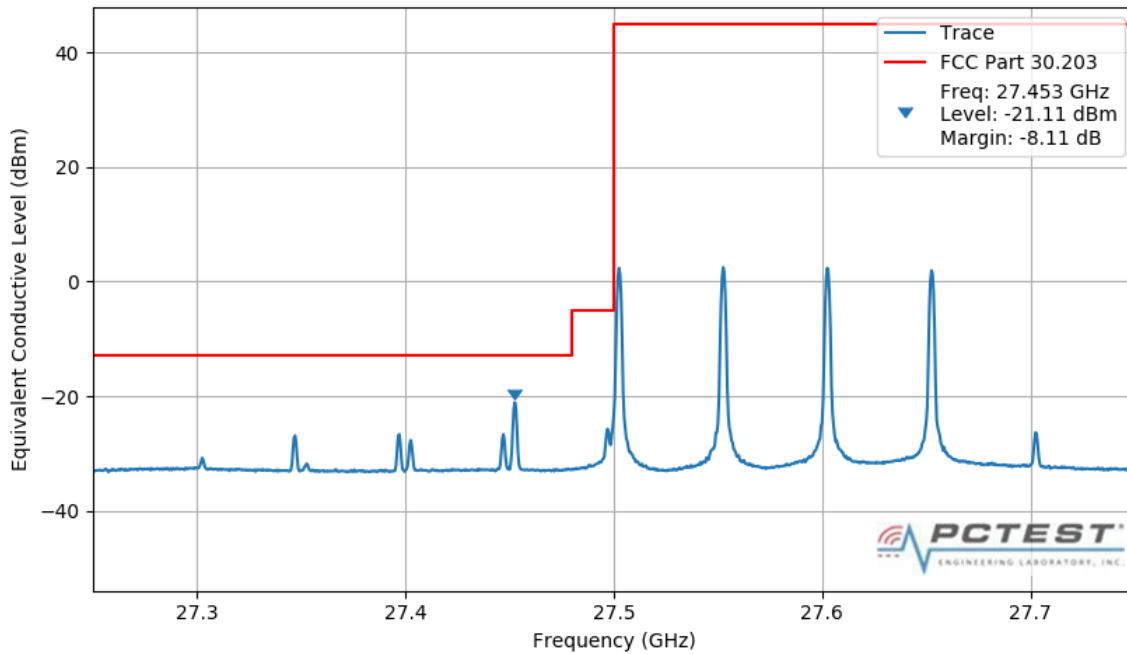
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-269. Band Edge Plot (4CC 50M 64QAM Low Channel – 1 RB, 0 offset)

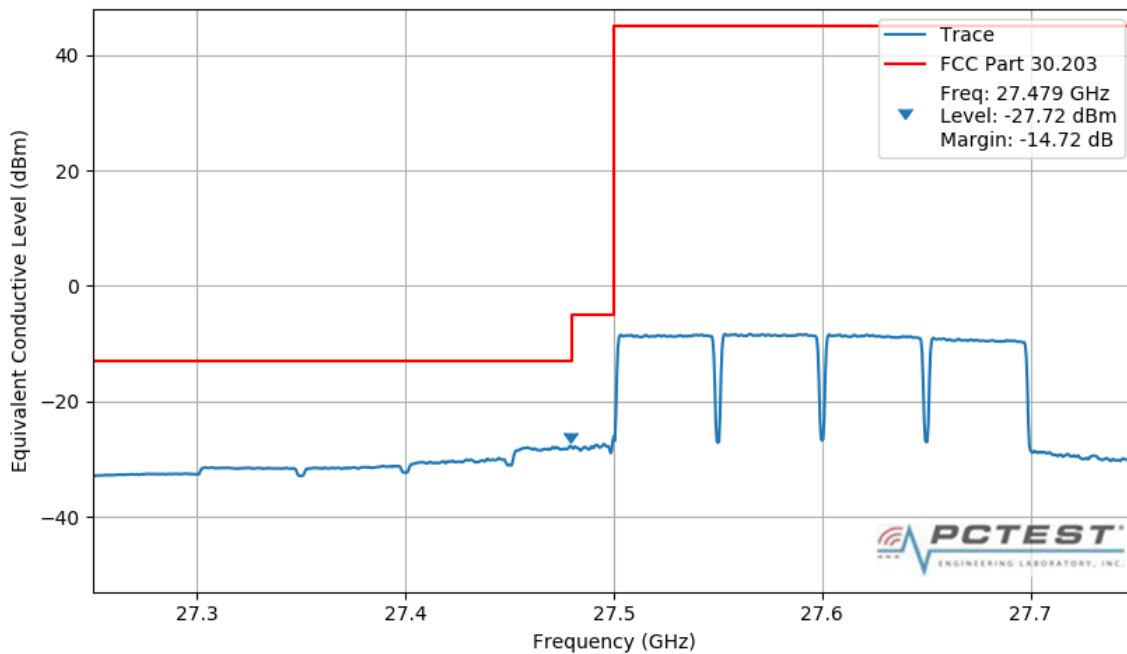
PASS

Center Freq: 27.50 GHz  
Span: 500 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-270. Band Edge Plot (4CC 50M QPSK Low Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 173 of 304                 |

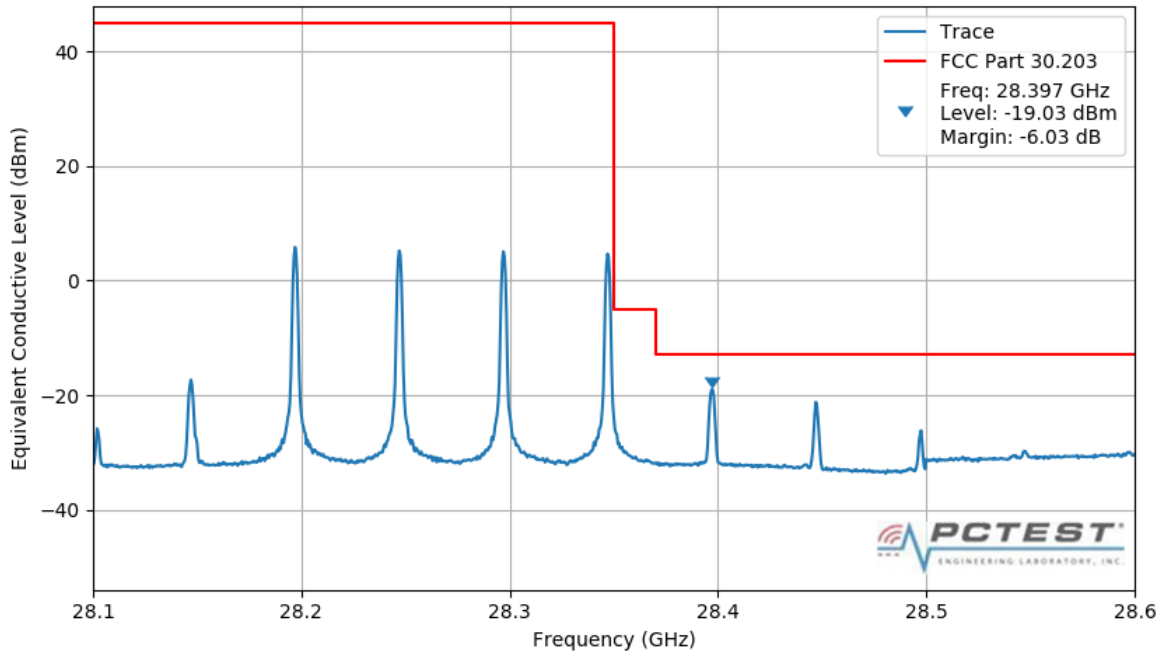
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-271. Band Edge Plot (4CC 50M QPSK High Channel – 1 RB, 31 offset)

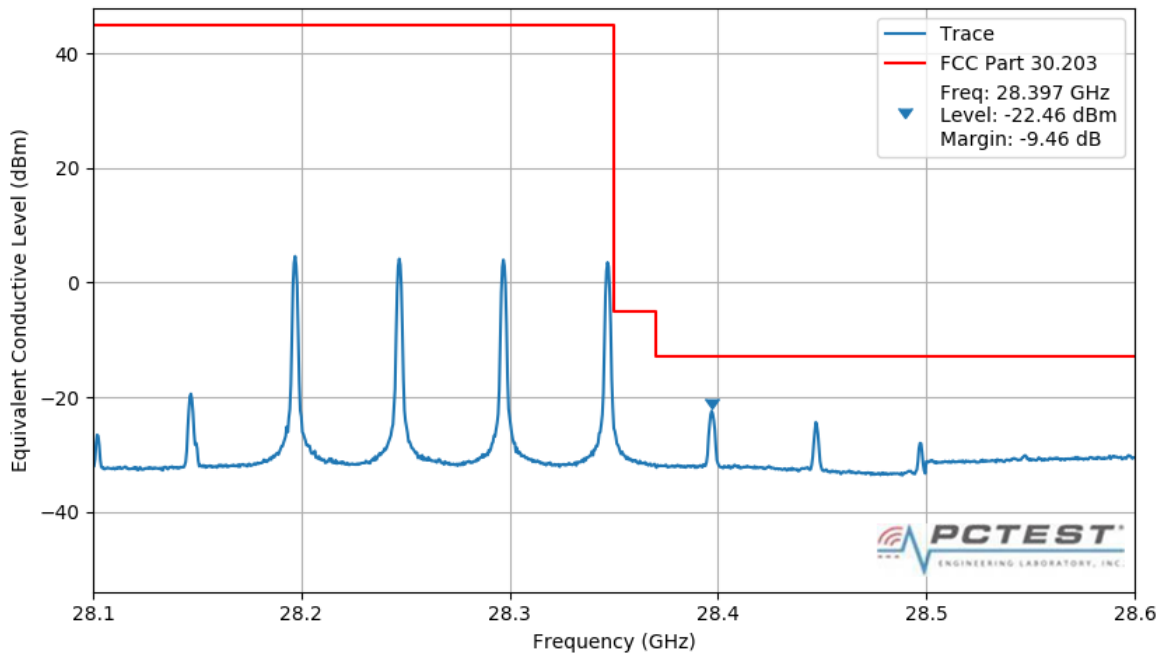
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-272. Band Edge Plot (4CC 50M 16QAM High Channel – 1 RB, 31 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 174 of 304                 |

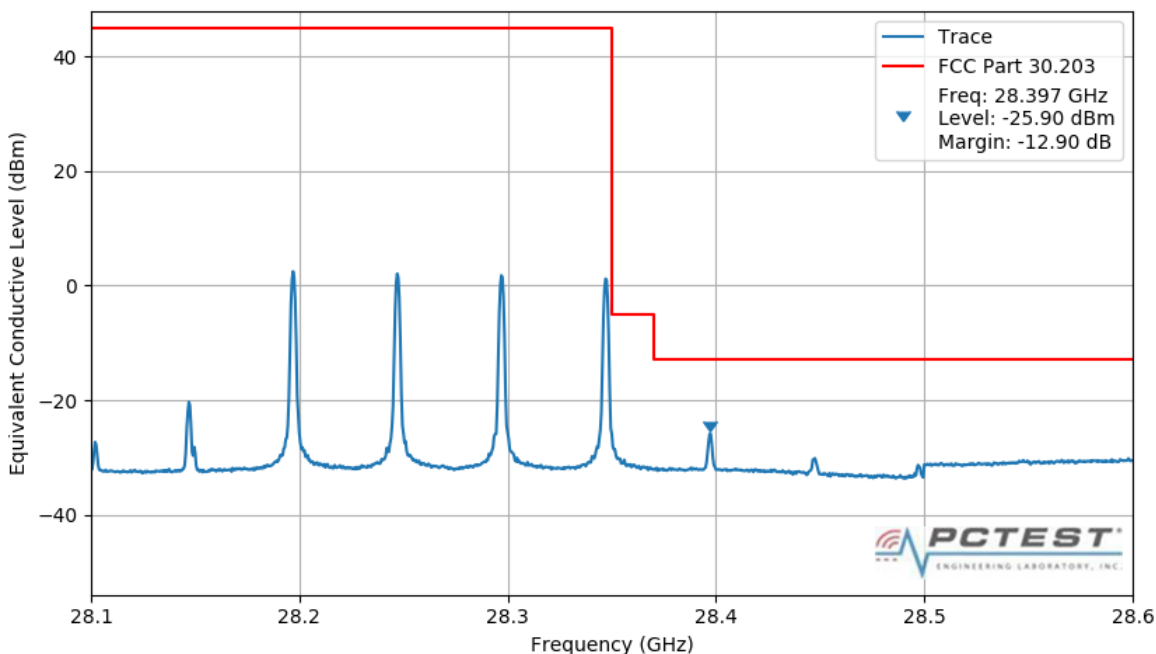
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 1001



Plot 7-273. Band Edge Plot (4CC 50M 64QAM High Channel – 1 RB, 31 offset)

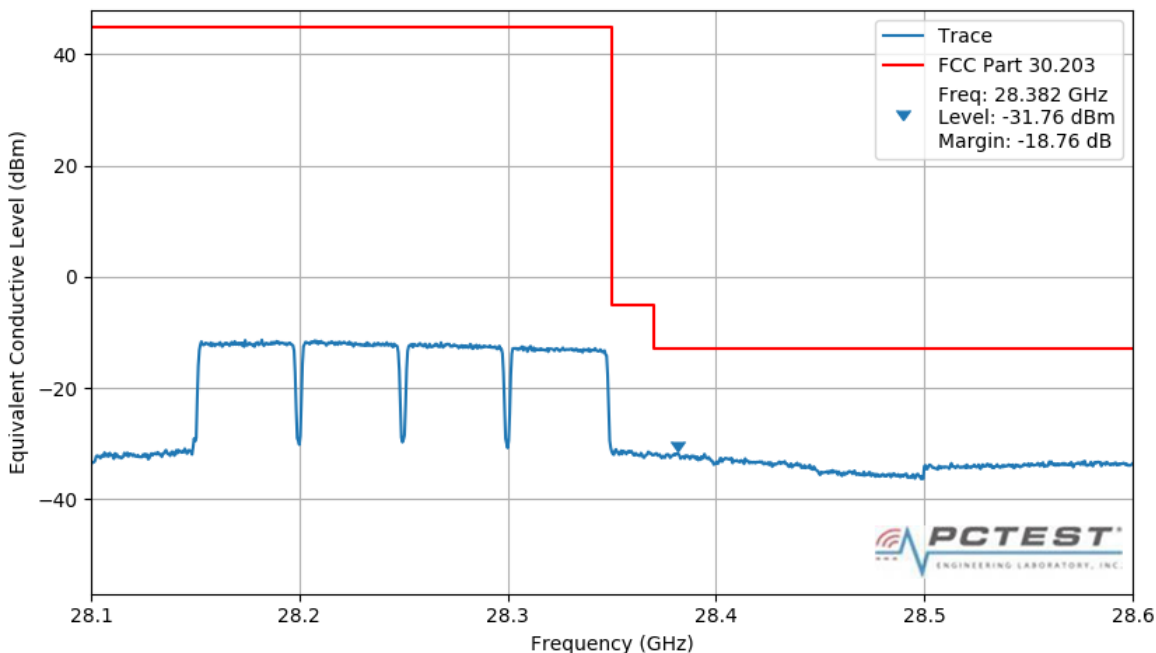
PASS

Center Freq: 28.35 GHz  
Span: 500 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

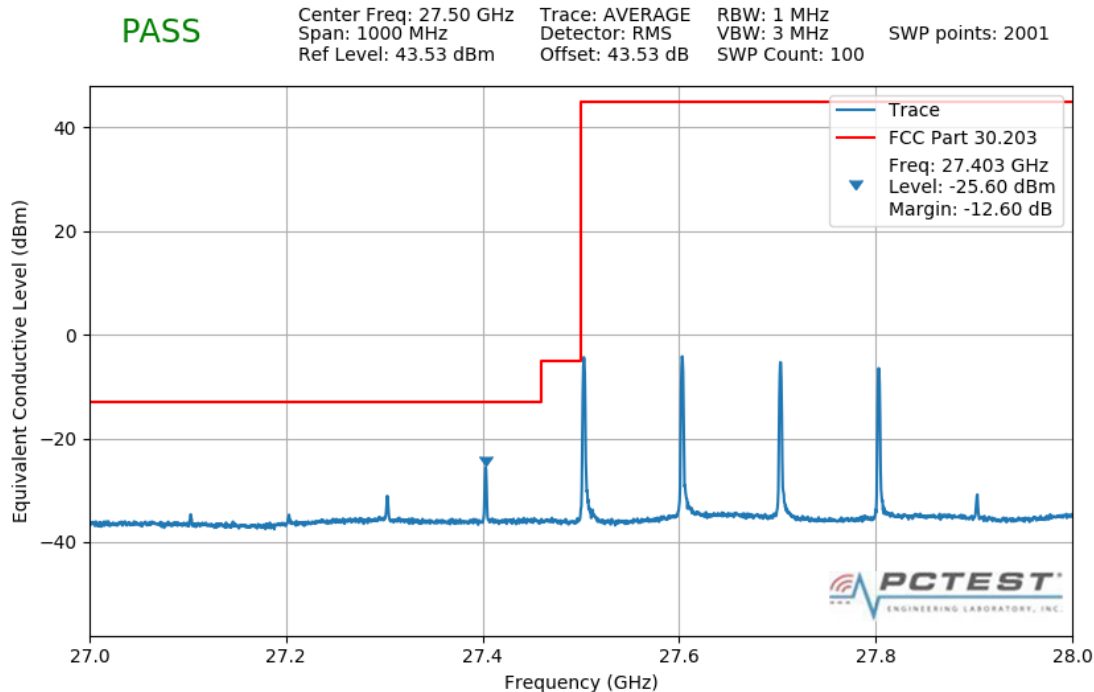
SWP points: 1001



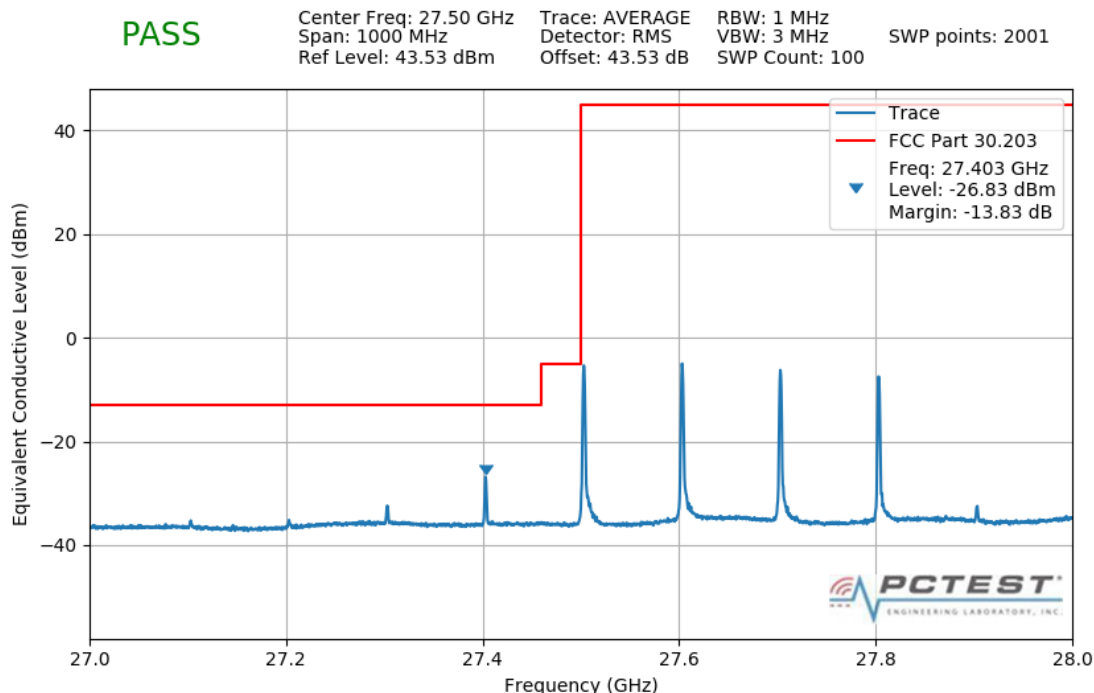
Plot 7-274. Band Edge Plot (4CC 50M QPSK High Channel – 32 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 175 of 304                 |

## 7.5.5 N261 1CC 400MHz Bandwidth Band Edges QTM 0 - H



Plot 7-275. Band Edge Plot (4CC 100M QPSK Low Channel – 1 RB, 0 offset)



Plot 7-276. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 176 of 304                 |

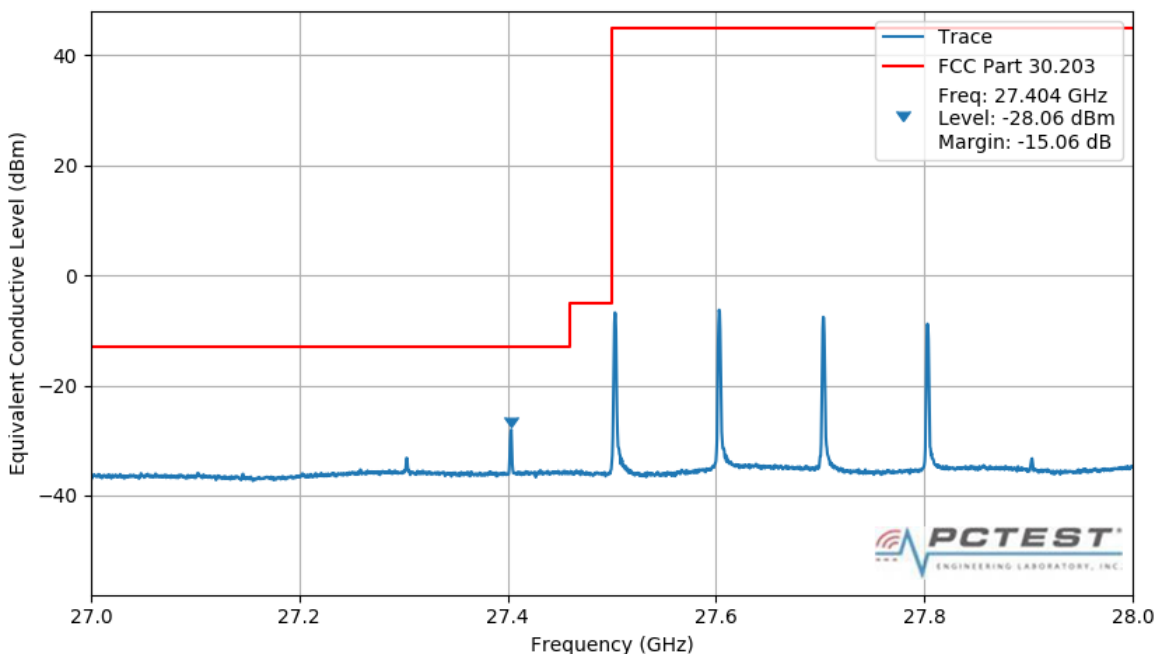
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-277. Band Edge Plot (4CC 100M 64QAM Low Channel – 1 RB, 0 offset)

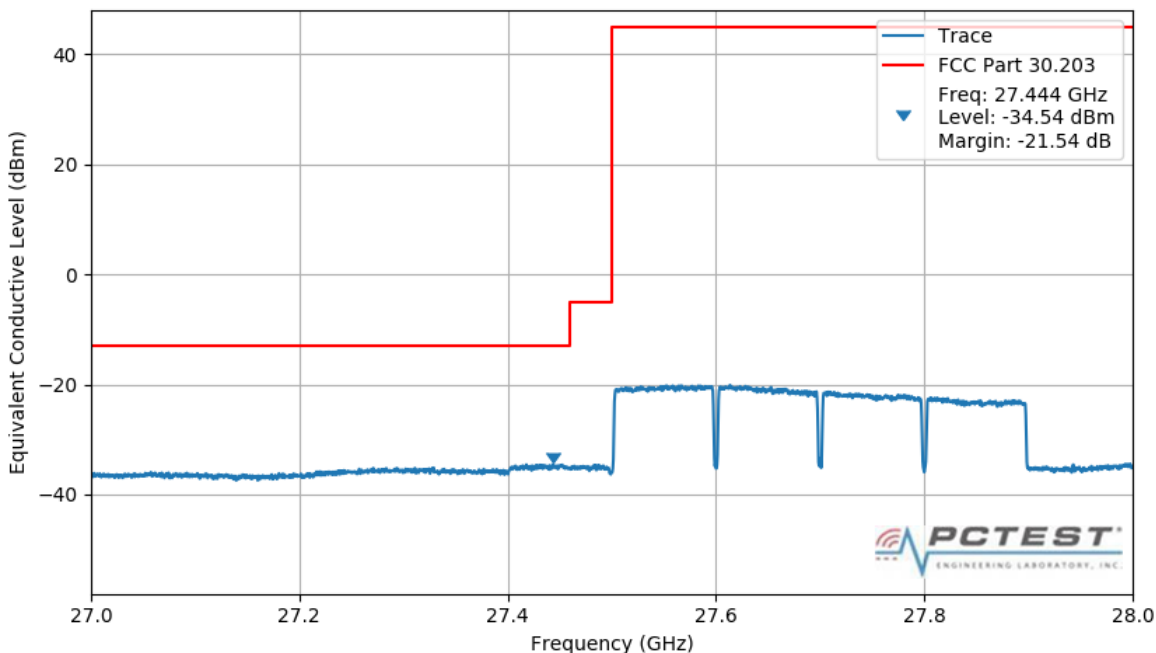
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-278. Band Edge Plot (4CC 100M QPSK Low Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 177 of 304                 |

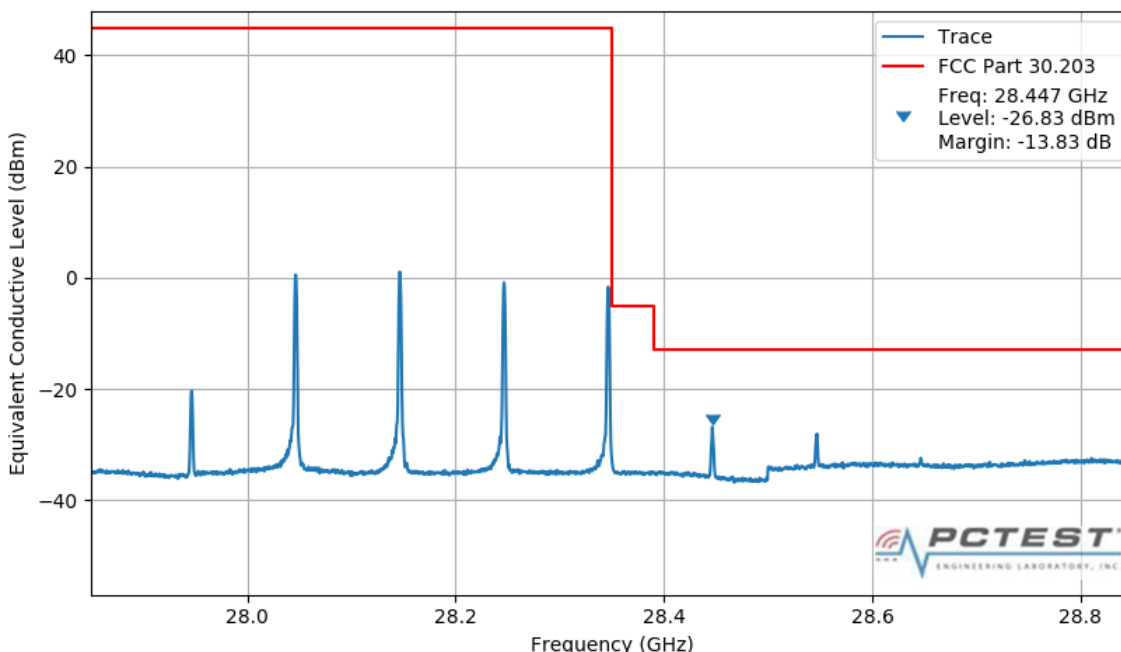
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-279. Band Edge Plot (4CC 100M QPSK High Channel – 1 RB, 65 offset)

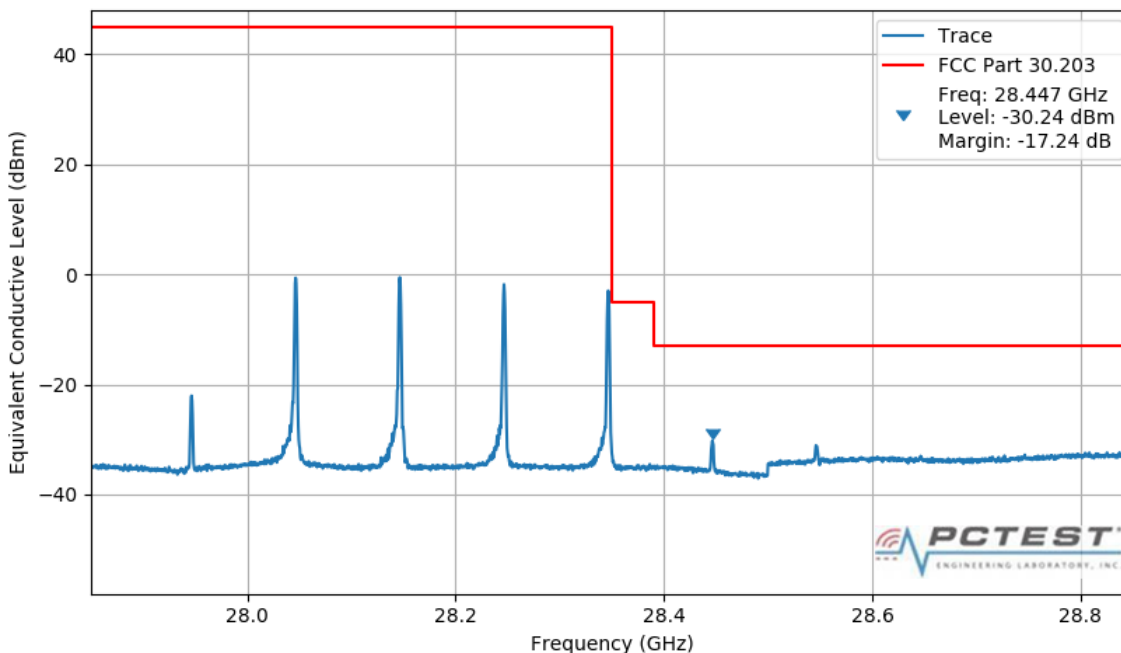
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-280. Band Edge Plot (4CC 100M 16QAM High Channel – 1 RB, 65 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 178 of 304                 |

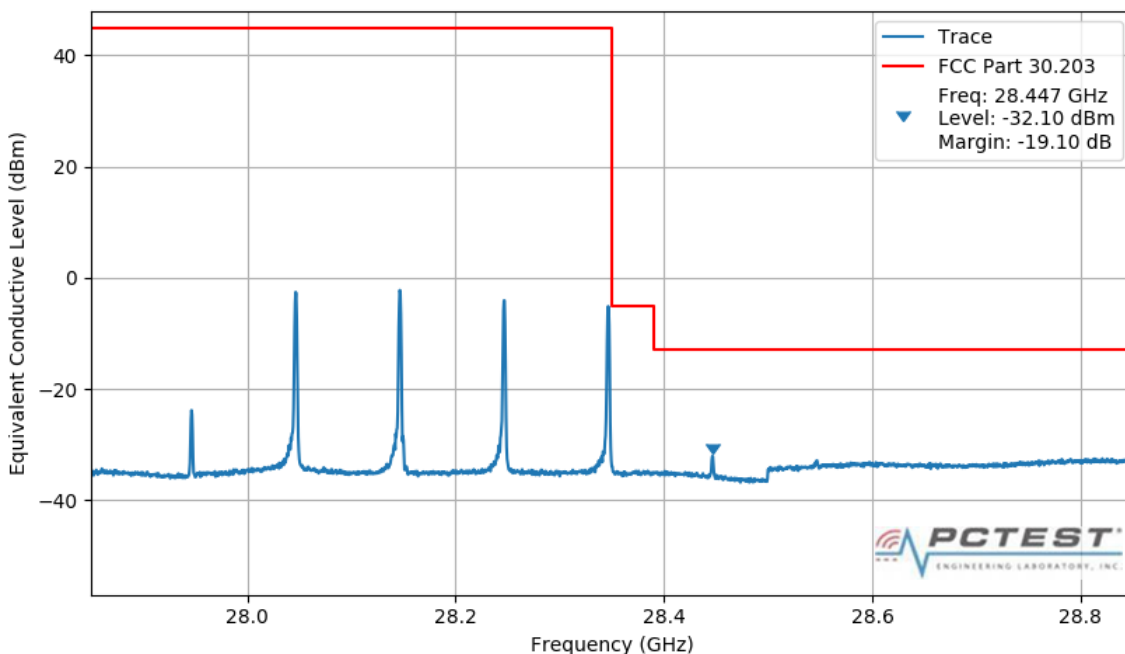
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-281. Band Edge Plot (4CC 100M 64QAM High Channel – 1 RB, 65 offset)

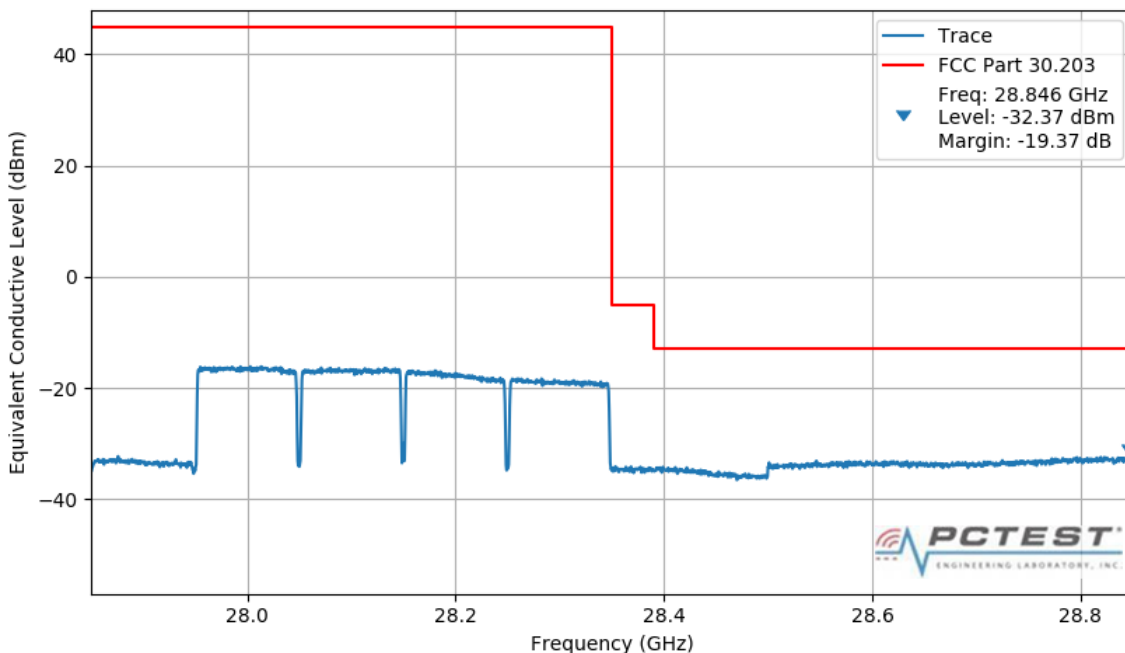
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-282. Band Edge Plot (4CC 100M QPSK High Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 179 of 304                 |

## QTM 0 - V

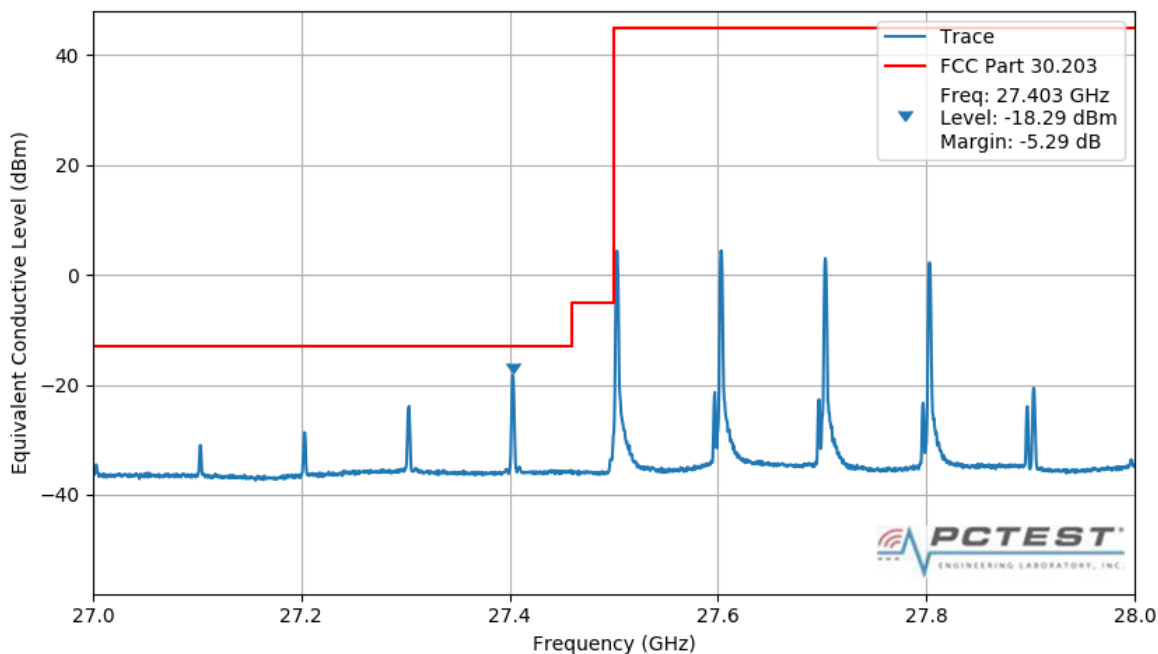
**PASS**

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



**Plot 7-283. Band Edge Plot (4CC 100M QPSK Low Channel – 1 RB, 0 offset)**

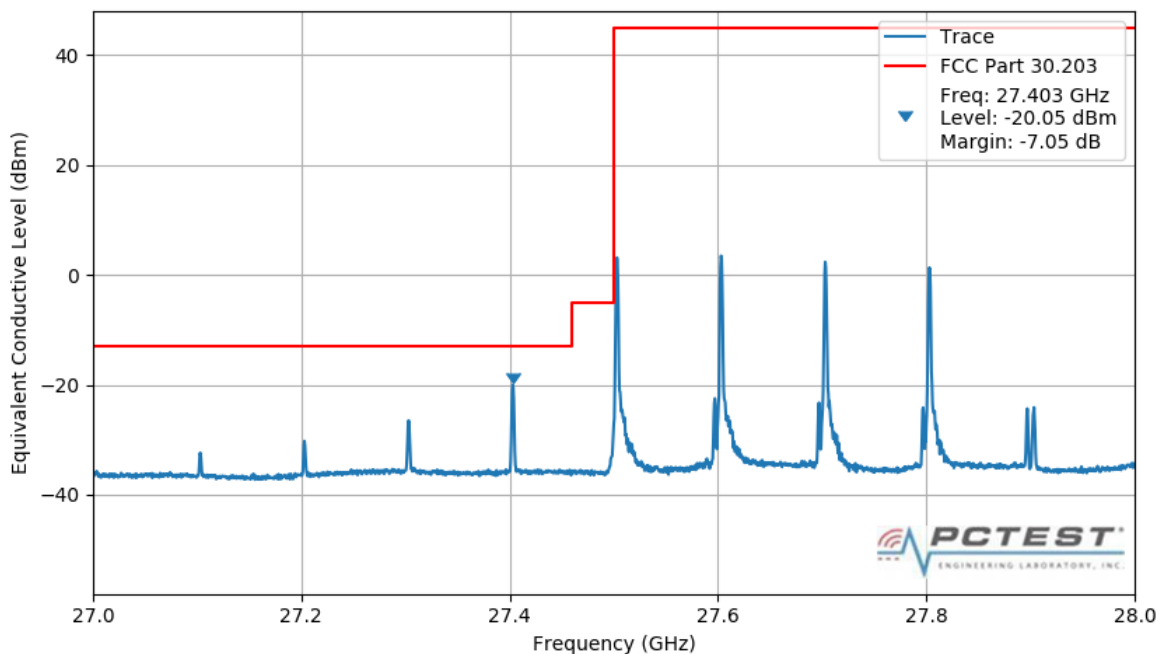
**PASS**

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



**Plot 7-284. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 180 of 304                 |

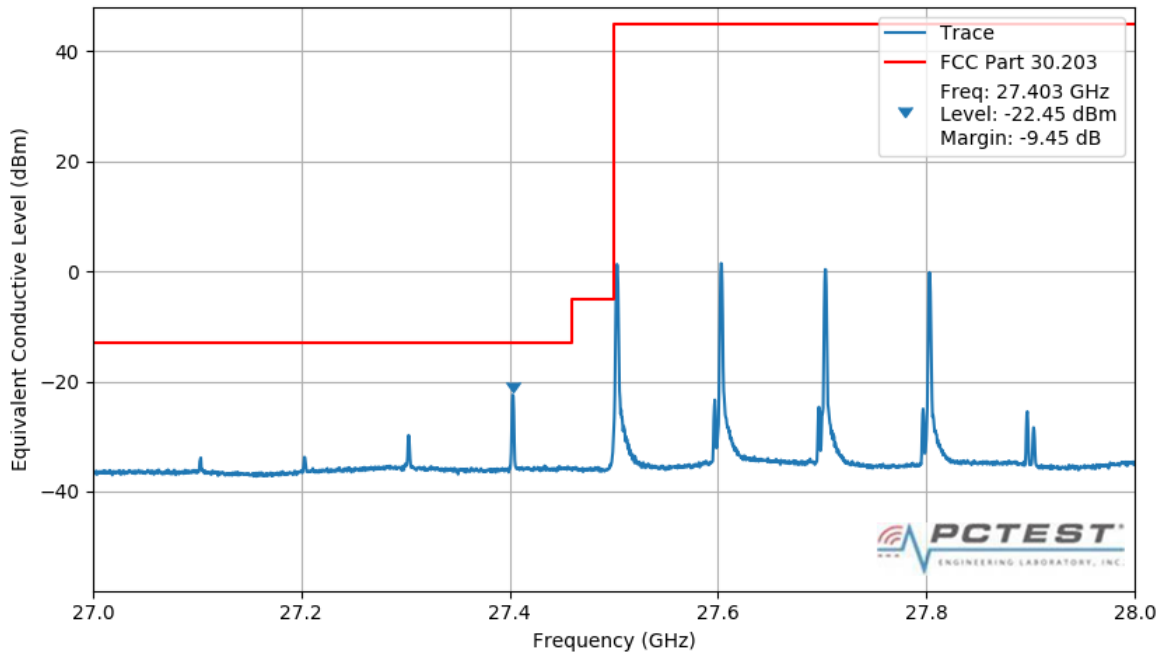
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-285. Band Edge Plot (4CC 100M 64QAM Low Channel – 1 RB, 0 offset)

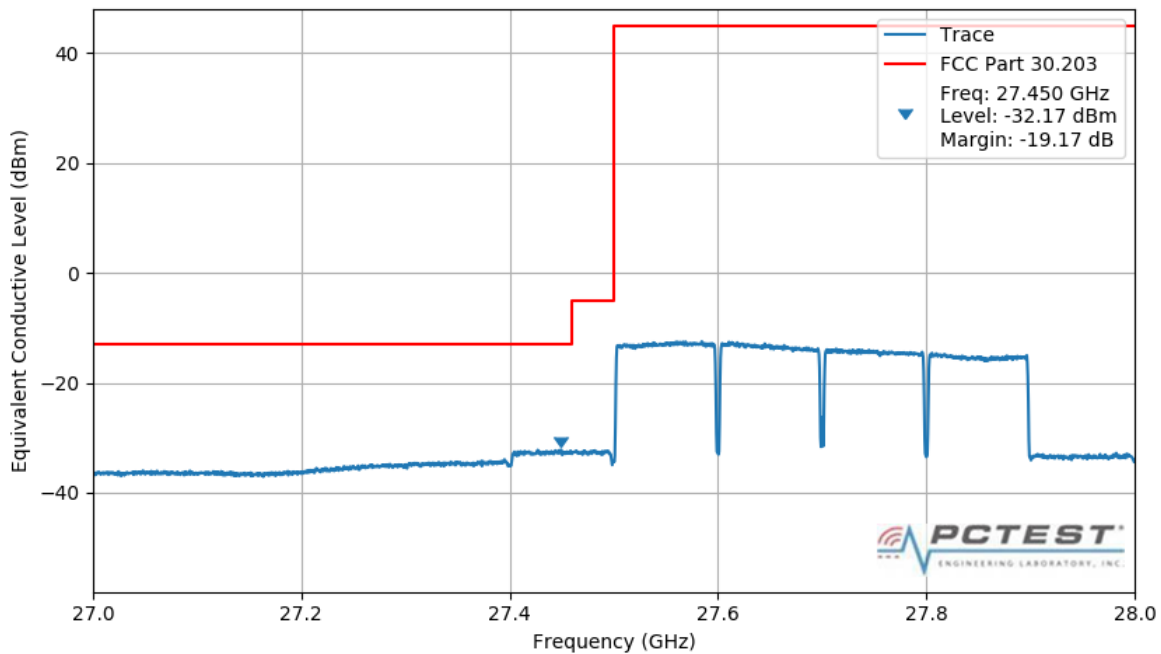
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-286. Band Edge Plot (4CC 100M QPSK Low Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 181 of 304                 |

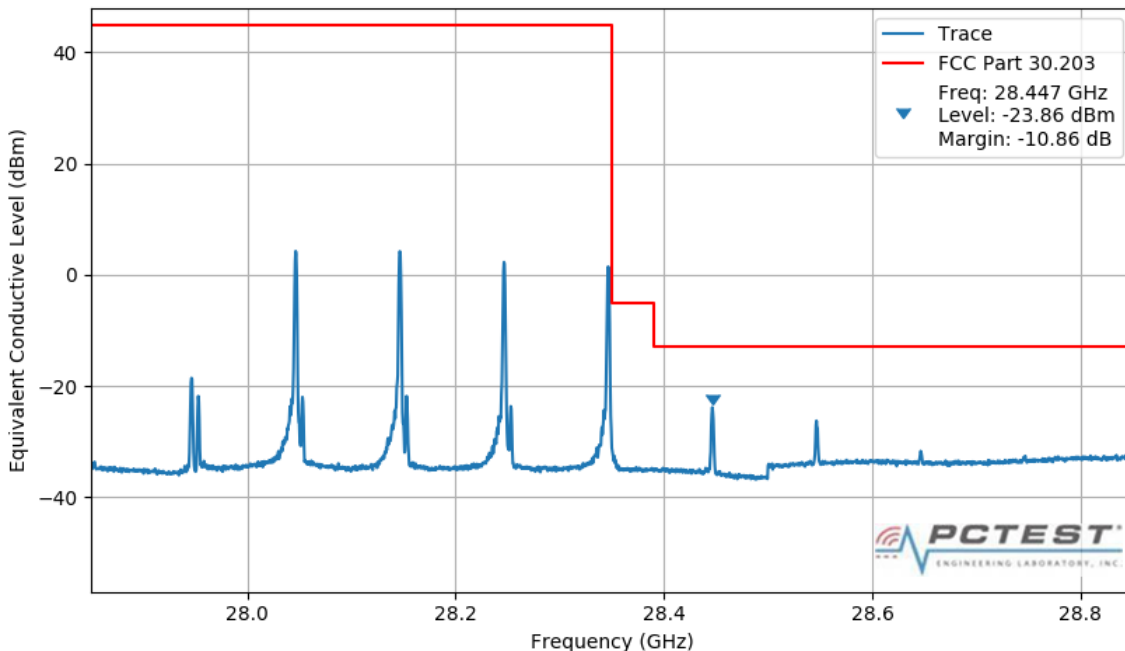
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-287. Band Edge Plot (4CC 100M QPSK High Channel – 1 RB, 65 offset)

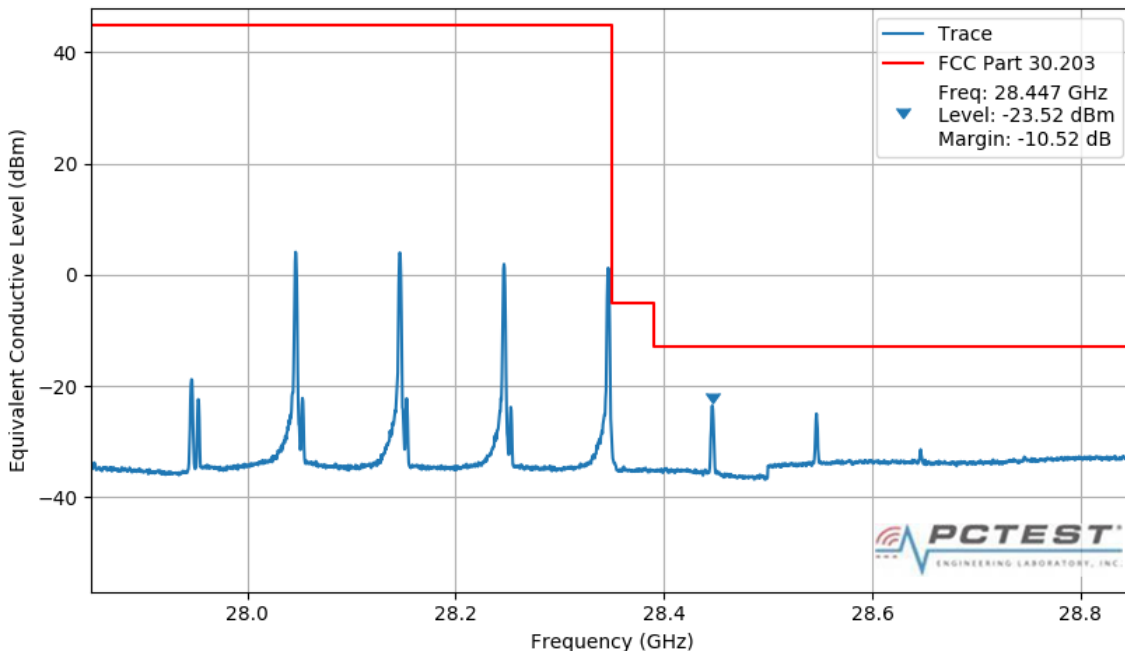
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-288. Band Edge Plot (4CC 100M 16QAM High Channel – 1 RB, 65 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 182 of 304                 |

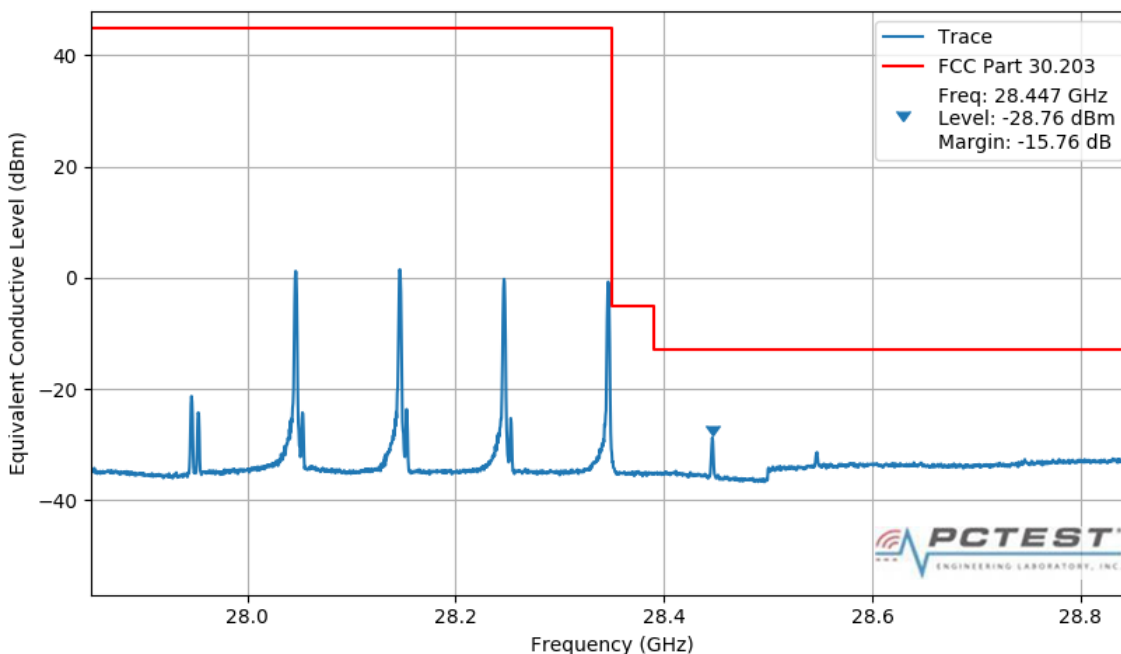
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-289. Band Edge Plot (4CC 100M 64QAM High Channel – 1 RB, 65 offset)

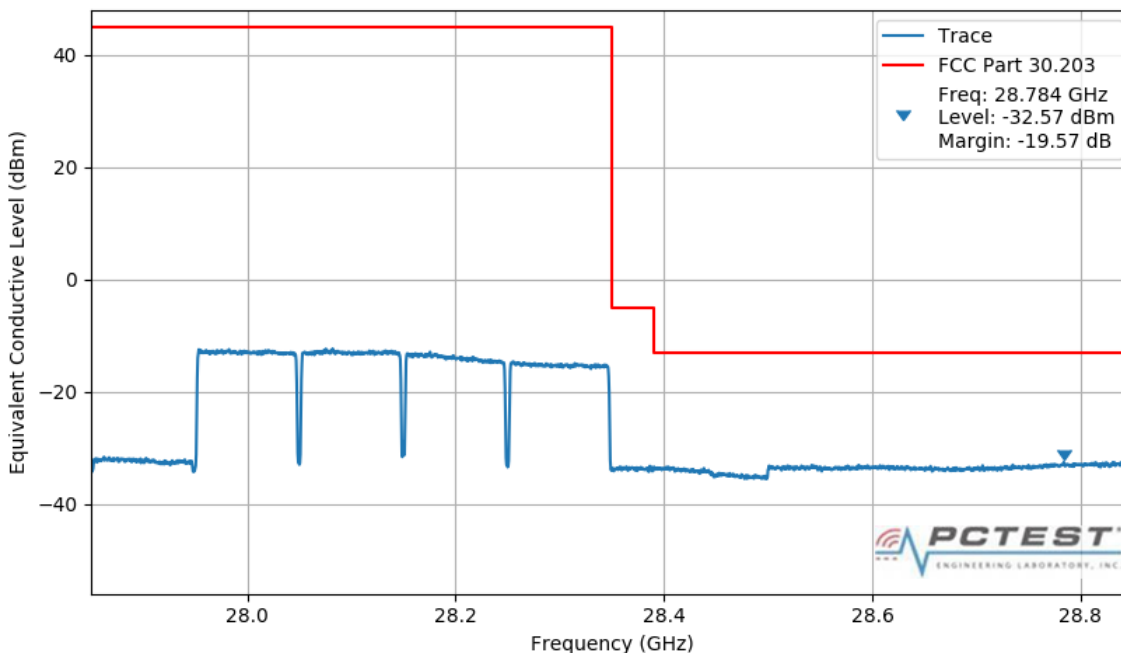
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-290. Band Edge Plot (4CC 100M QPSK High Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 183 of 304                 |

## QTM 0 - H + V

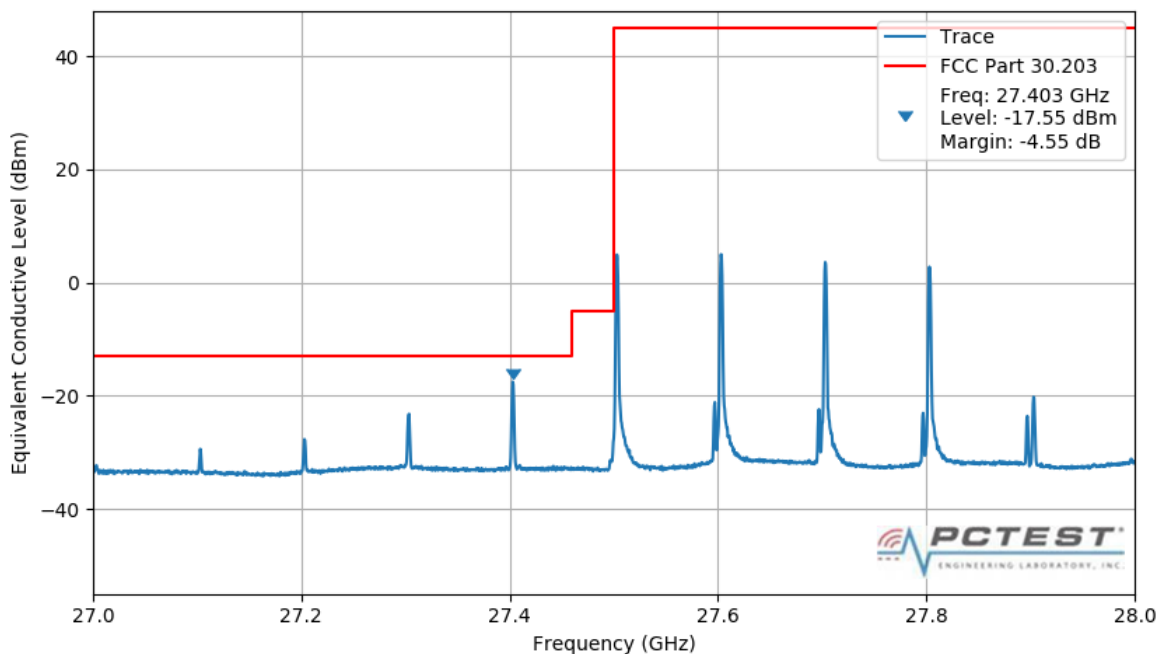
**PASS**

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



**Plot 7-291. Band Edge Plot (4CC 100M QPSK Low Channel – 1 RB, 0 offset)**

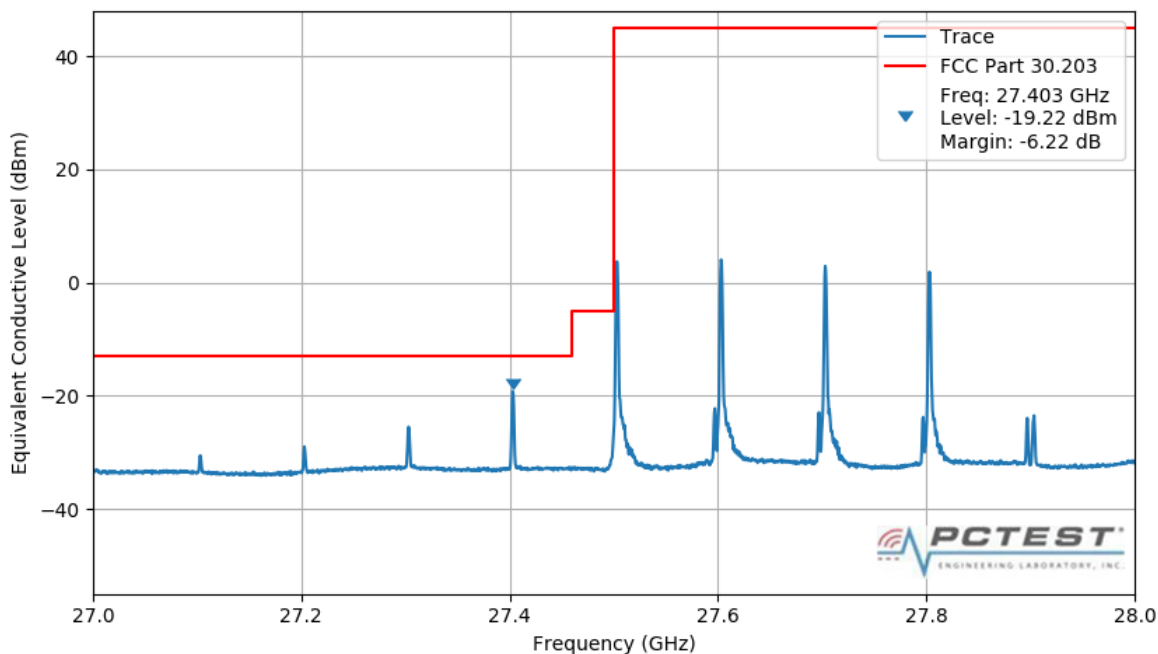
**PASS**

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



**Plot 7-292. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB, 0 offset)**

|                                         |                                               |                                       |  |                 |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|--|-----------------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) |  | <b>LG</b>       | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |  | Page 184 of 304 |                                 |

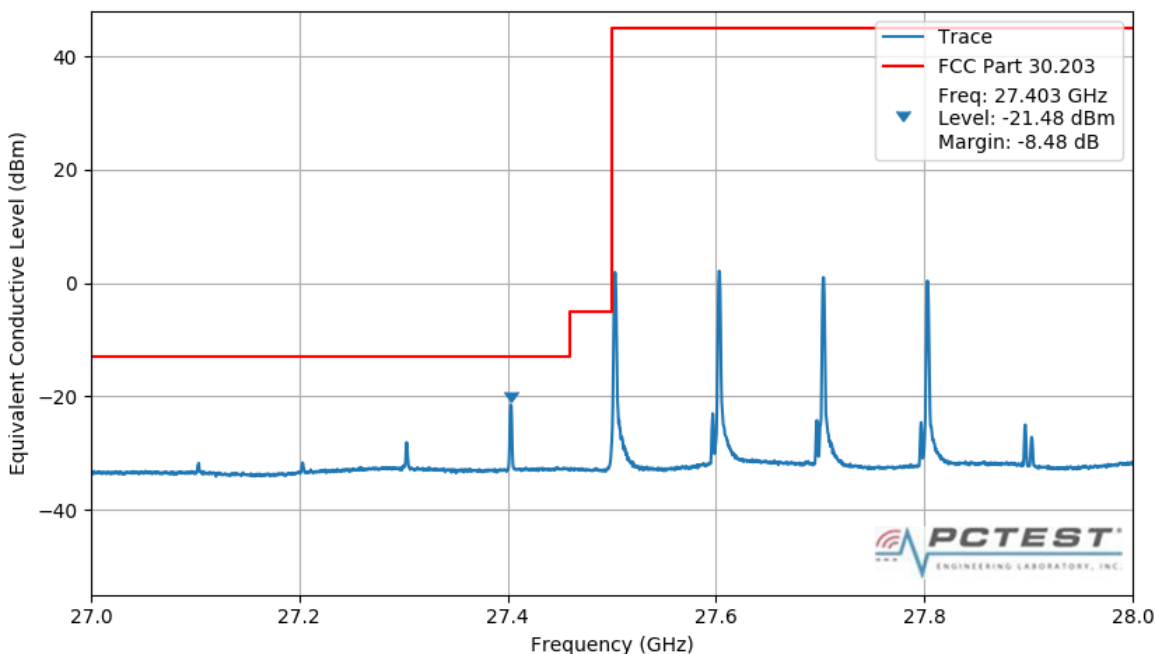
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-293. Band Edge Plot (4CC 100M 64QAM Low Channel – 1 RB, 0 offset)

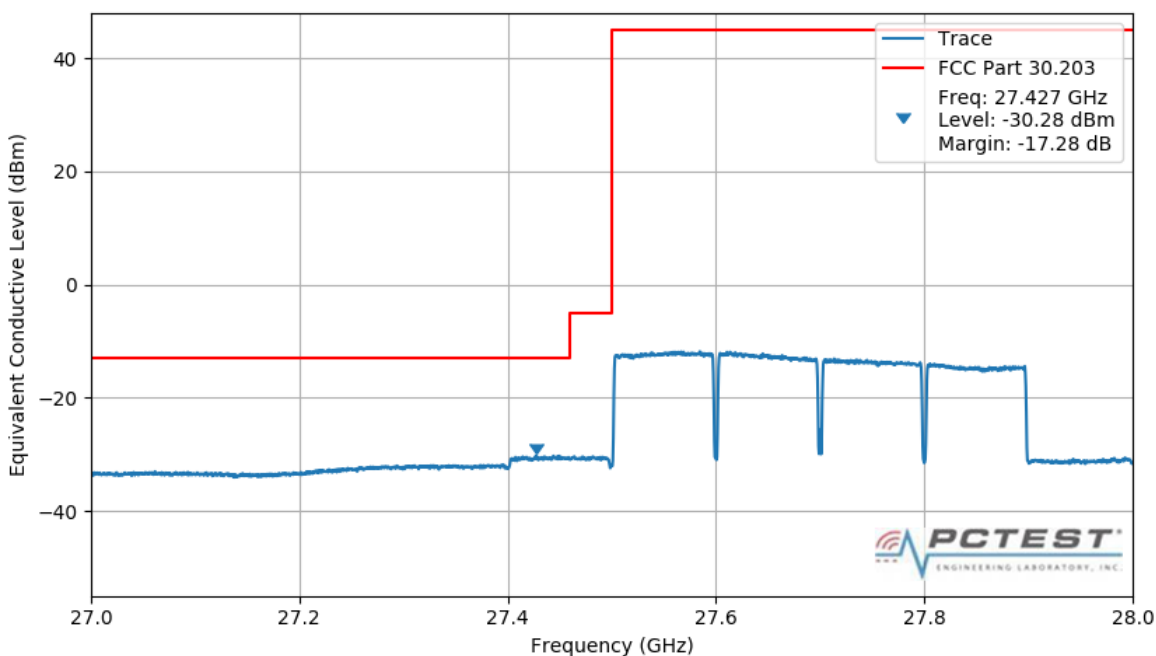
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-294. Band Edge Plot (4CC 100M QPSK Low Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 185 of 304                 |

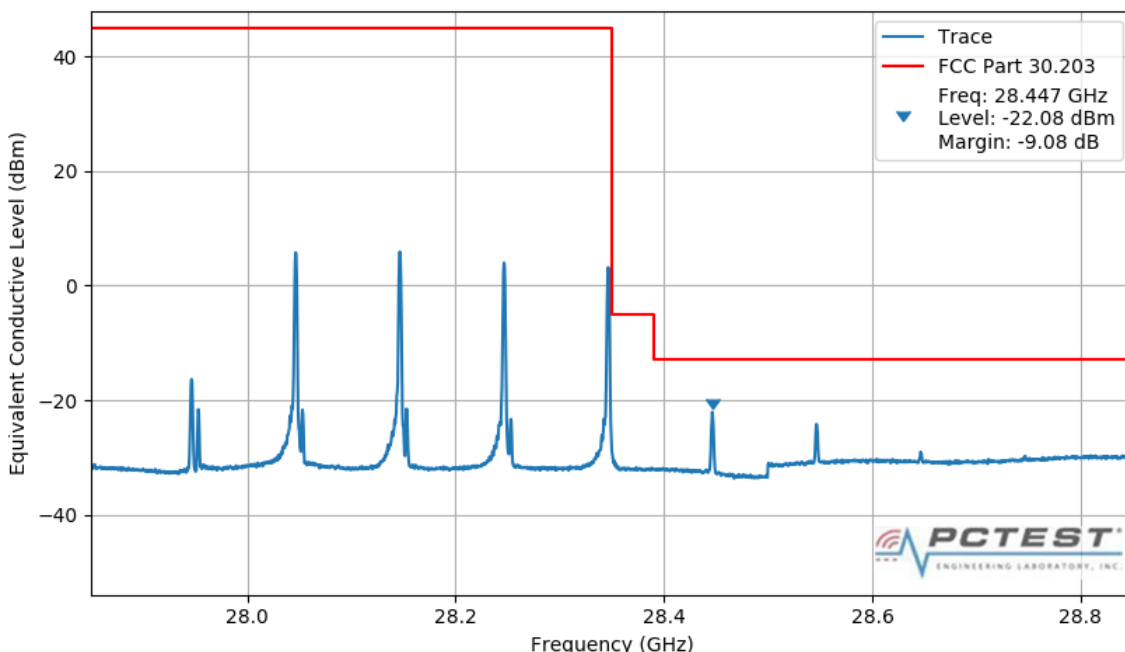
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-295. Band Edge Plot (4CC 100M QPSK High Channel – 1 RB, 65 offset)

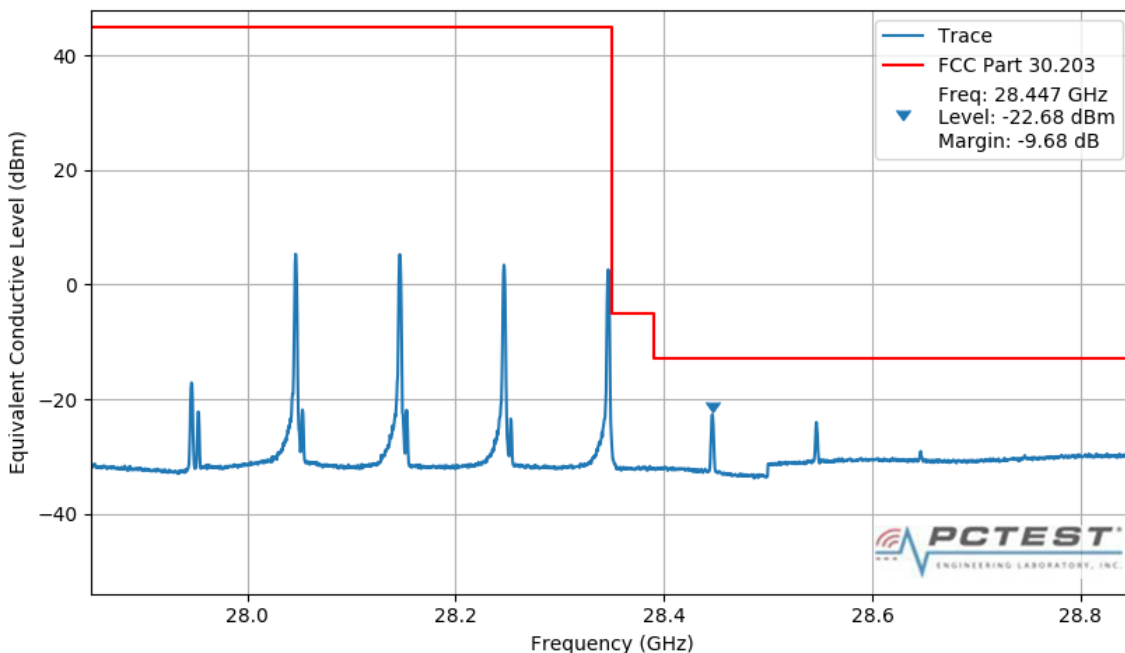
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-296. Band Edge Plot (4CC 100M 16QAM High Channel – 1 RB, 65 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 186 of 304                 |

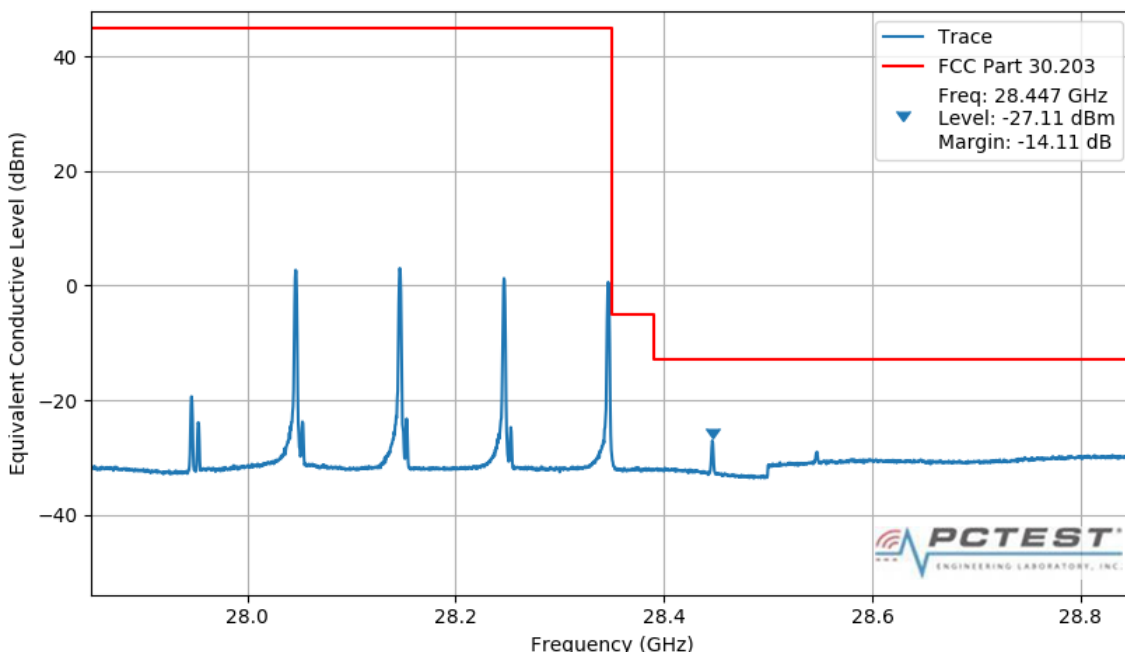
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-297. Band Edge Plot (4CC 100M 64QAM High Channel – 1 RB, 65 offset)

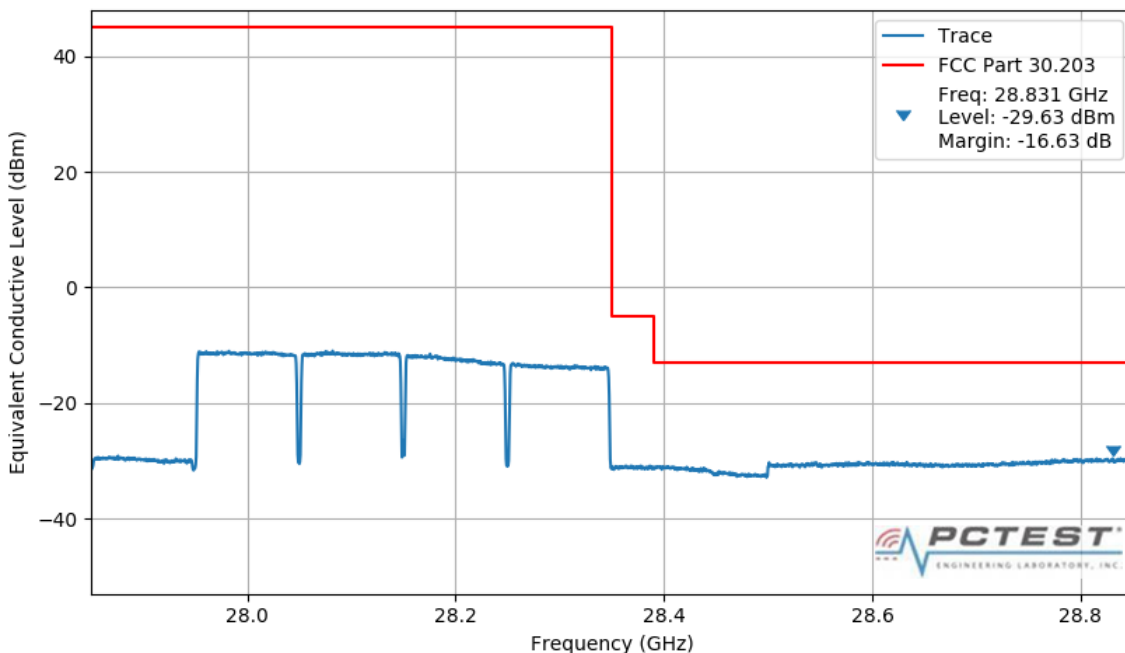
PASS

Center Freq: 28.35 GHz  
Span: 1000 MHz  
Ref Level: 43.60 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.60 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-298. Band Edge Plot (4CC 100M QPSK High Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |  |  |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|--|--|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) |  |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |  |  | Page 187 of 304                 |

## QTM 1 - H

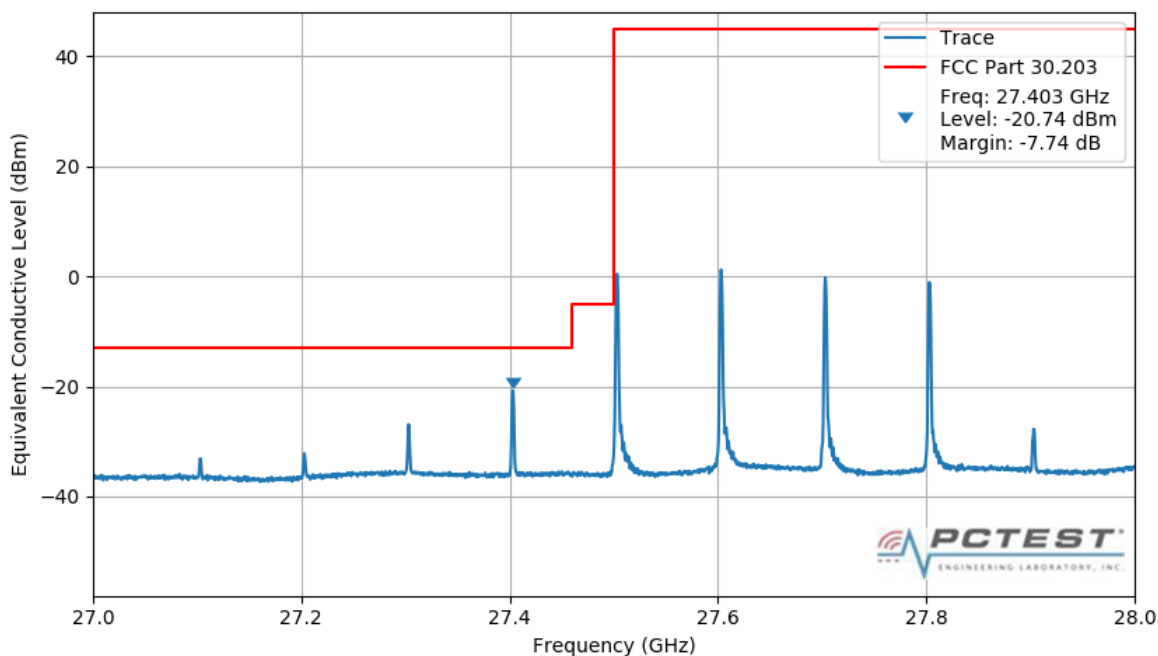
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-299. Band Edge Plot (4CC 100M QPSK Low Channel – 1 RB, 0 offset)

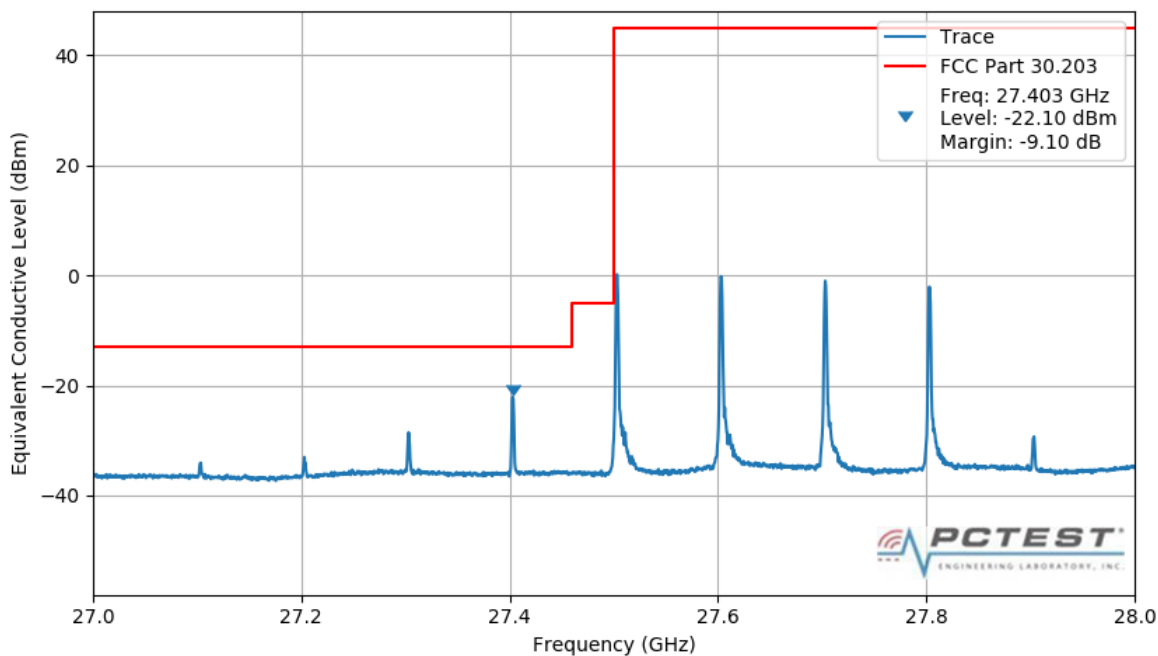
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-300. Band Edge Plot (4CC 100M 16QAM Low Channel – 1 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 188 of 304                 |

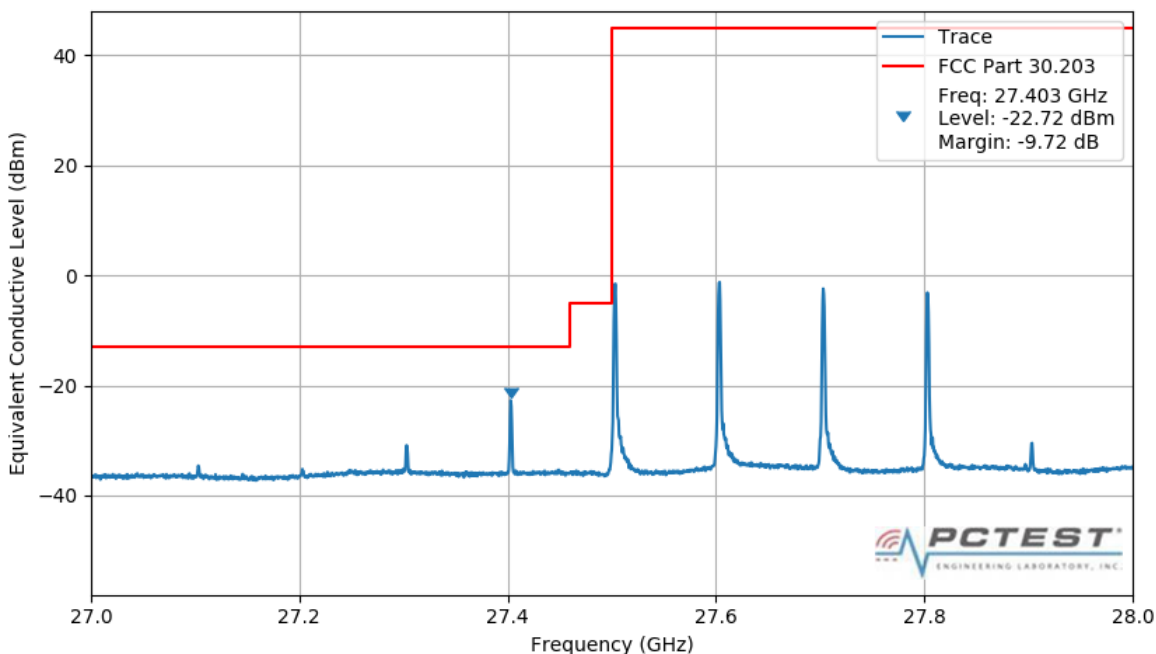
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-301. Band Edge Plot (4CC 100M 64QAM Low Channel – 1 RB, 0 offset)

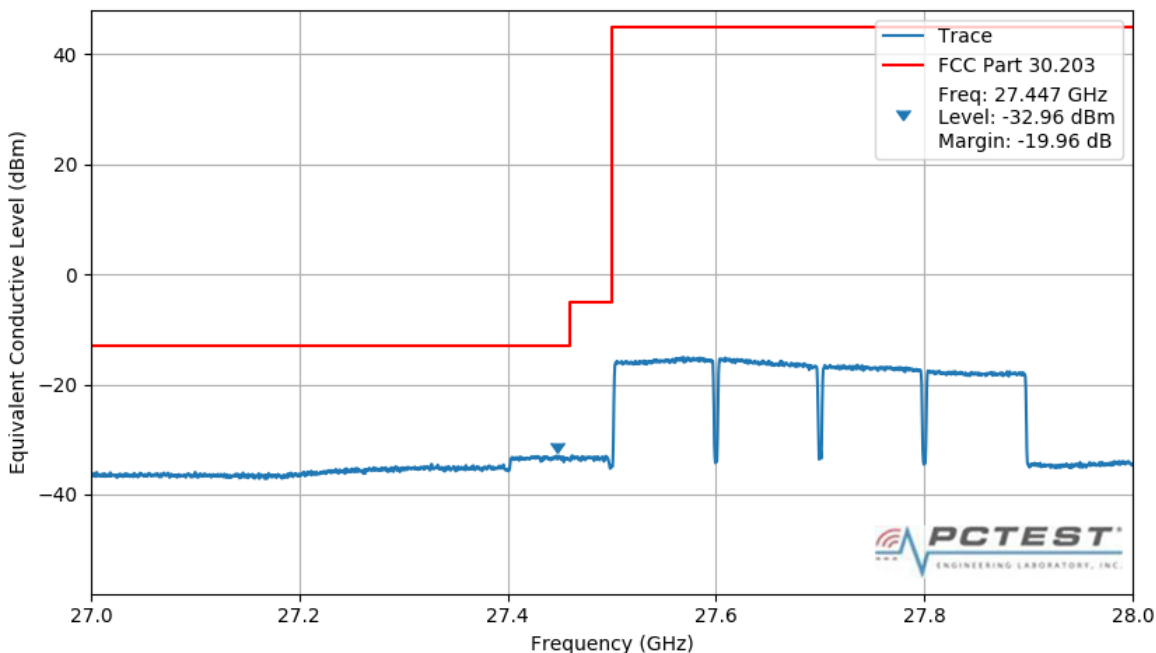
PASS

Center Freq: 27.50 GHz  
Span: 1000 MHz  
Ref Level: 43.53 dBm

Trace: AVERAGE  
Detector: RMS  
Offset: 43.53 dB

RBW: 1 MHz  
VBW: 3 MHz  
SWP Count: 100

SWP points: 2001



Plot 7-302. Band Edge Plot (4CC 100M QPSK Low Channel – 66 RB, 0 offset)

|                                         |                                               |                                       |           |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|-----------|---------------------------------|
| FCC ID: ZNFV450VM                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>LG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901150005-14.ZNF | Test Dates:<br>1/21 -4/26/2019                | EUT Type:<br>Portable Handset         |           | Page 189 of 304                 |