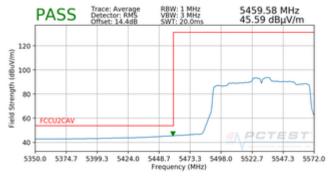
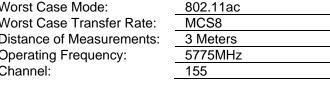


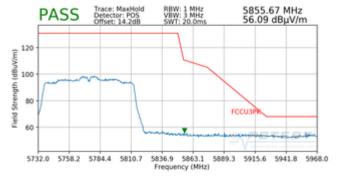
Worst Case Mode: 802.11ac Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5530MHz Channel: 106



Plot 7-221. Radiated Lower Band Edge Plot SISO ANT2 (Average - UNII Band 2C)

Worst Case Mode: 802.11ac Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5775MHz Channel: 155





Plot 7-223. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3)

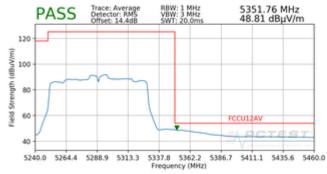
PASS	Trace: MaxHold Detector: POS Offset: 13.5dB	RBW: 1 MHz VBW: 3 MHz SWT: 20.0ms	5469.18 MHz 57.42 dBμV/m
FCCU2CPK			1
		- I	PCTEST
		PASS Detector: POS Offset: 13.5dB	PASS Detector: POS VBW: 3 MHz SWT: 20.0ms

Plot 7-222. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 2C)

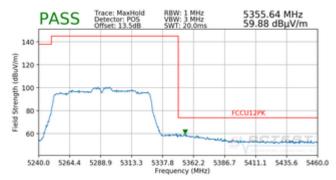
FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ac Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-224. Radiated Band Edge Plot SISO ANT2 (Average - WCP)



Plot 7-225. Radiated Band Edge Plot SISO ANT2 (Peak - WCP)

FCC ID: ZNFV350A	ENGINESHING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	G .	pproved by: uality Manager
Test Report S/N:	Test Dates:	EUT Type:	Do	age 159 of 182
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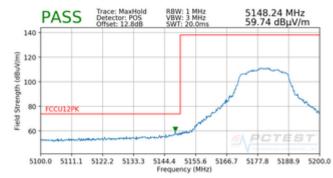


### 6.7.10 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5180MHz Channel: 36

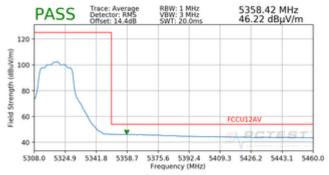


Plot 7-226. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1)

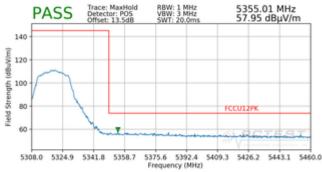


Plot 7-227. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1)

Worst Case Mode: 802.11n MCS8 Worst Case Transfer Rate: Distance of Measurements: 3 Meters Operating Frequency: 5320MHz Channel: 64



Plot 7-228. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A)



Plot 7-229. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A)

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
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Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

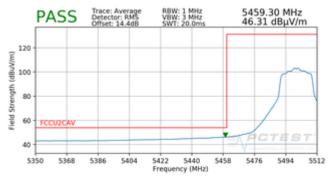
802.11n

MCS8

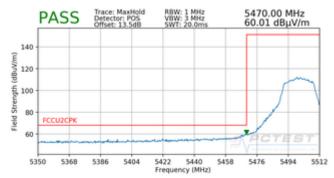
3 Meters

5500MHz

100



Plot 7-230. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-231. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

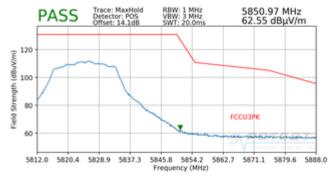
802.11n

MCS8

3 Meters

5825MHz

165



Plot 7-232. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

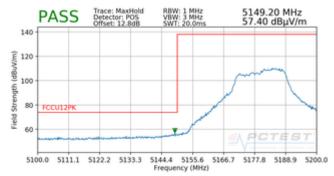
FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5180MHz Channel: 36



Plot 7-233. Radiated Band Edge Plot MIMO (Average - WCP)



Plot 7-234. Radiated Band Edge Plot MIMO (Peak -WCP)

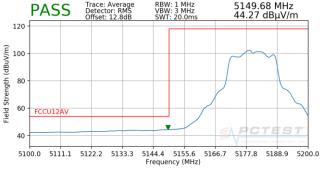
FCC ID: ZNFV350A	ENGINESHING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 162 of 182
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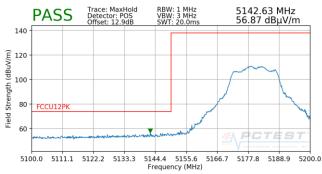
# 6.7.11 CDD Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5180MHz
36



Plot 7-235. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)



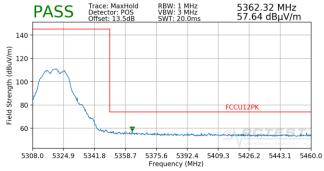
Plot 7-236. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5320MHz
64



Plot 7-237. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-238. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: ZNFV350A	ENGINESHING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

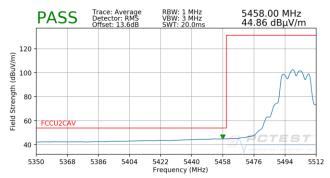
802.11a

6Mbps

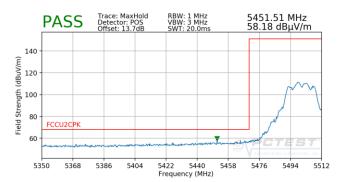
3 Meters

5500MHz

100



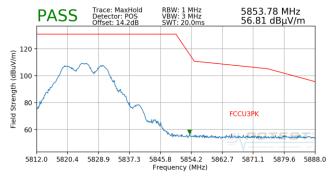
Plot 7-239. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-240. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

802.11a
6Mbps
3 Meters
5825MHz
165



Plot 7-241. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

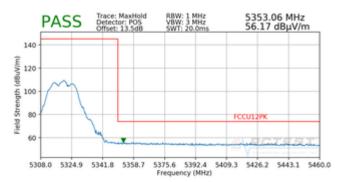
FCC ID: ZNFV350A	ENGINESHING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>1</b> LG	Approved by: Quality Manager
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Worst Case Mode: 802.11a Worst Case Transfer Rate: 6Mbps Distance of Measurements: 3 Meters Operating Frequency: 5320MHz Channel: 64



Plot 7-242. Radiated Band Edge Plot MIMO (Average - WCP)



Plot 7-243. Radiated Band Edge Plot MIMO (Peak -WCP)

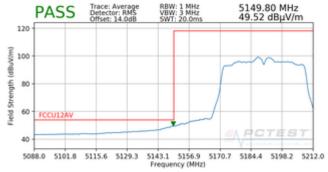
FCC ID: ZNFV350A	ENGINESHING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 165 of 182
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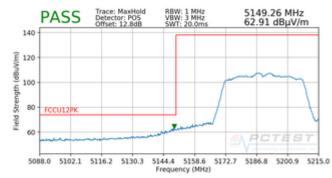
### 6.7.12 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5190MHz Channel: 38



Plot 7-244. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1)

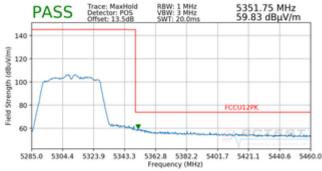


Plot 7-245. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1)

Worst Case Mode: 802.11n MCS8 Worst Case Transfer Rate: Distance of Measurements: 3 Meters Operating Frequency: 5310MHz Channel: 62



Plot 7-246. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A)



Plot 7-247. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A)

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

802.11n

MCS8

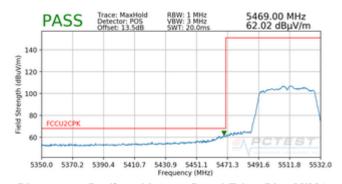
3 Meters

5510MHz

102

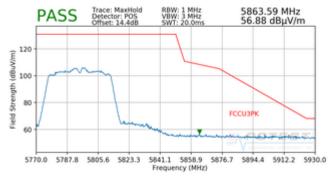


Plot 7-248. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-249. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159

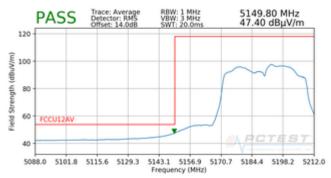


Plot 7-250. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

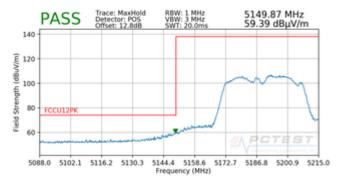
FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	1 LG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dags 467 of 400
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Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS8 Distance of Measurements: 3 Meters Operating Frequency: 5190MHz Channel: 38



Plot 7-251. Radiated Band Edge Plot ANT (Average - WCP)



Plot 7-252. Radiated Band Edge Plot ANT (Peak -WCP)

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### 6.7.13 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ac Worst Case Transfer Rate: MCS<sub>0</sub>

Distance of Measurements: Operating Frequency:

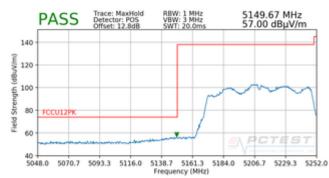
3 Meters 5210MHz

Channel:

42



Plot 7-253. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 1)

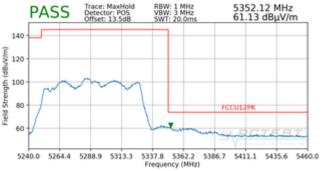


Plot 7-254. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 1)

Worst Case Mode: 802.11ac MCS<sub>0</sub> Worst Case Transfer Rate: Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-255. Radiated Upper Band Edge Plot MIMO (Average - UNII Band 2A)



Plot 7-256. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 2A)

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:
Operating Frequency:

Channel:

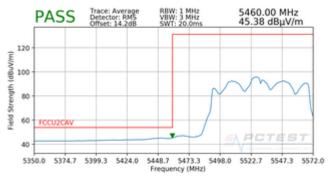
802.11ac

MCS0

3 Meters

5530MHz

106



Plot 7-257. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)

Worst Case Mode:
Worst Case Transfer Rate:
Distance of Measurements:
Operating Frequency:
Channel:

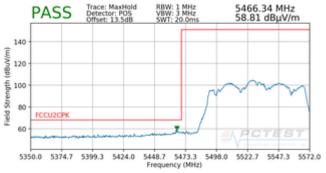
802.11ac

MCS0

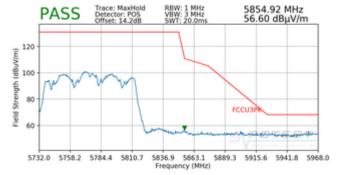
3 Meters

5775MHz

155



Plot 7-258. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

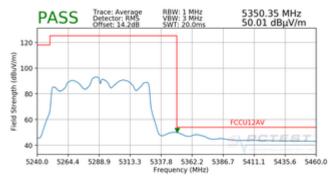


Plot 7-259. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: ZNFV350A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode: 802.11ac Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 5290MHz Channel: 58



Plot 7-260. Radiated Band Edge Plot ANT (Average - WCP)



Plot 7-261. Radiated Band Edge Plot ANT (Peak -WCP)

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>1</b> LG	Approved by: Quality Manager
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### Radiated Spurious Emissions Measurements – Below 1GHz §15.209; RSS-Gen [8.9]

### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-66 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 - 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-66. Radiated Limits

### **Test Procedures Used**

ANSI C63.10-2013

#### **Test Settings**

### **Quasi-Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	① LG	Approved by: Quality Manager
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### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagrams below.

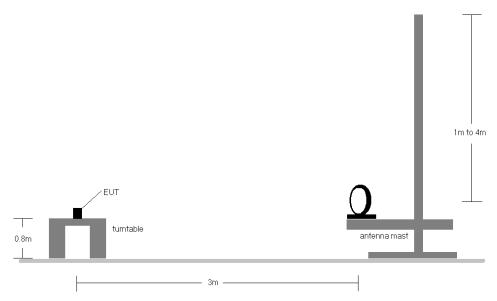


Figure 7-6. Radiated Test Setup < 30MHz

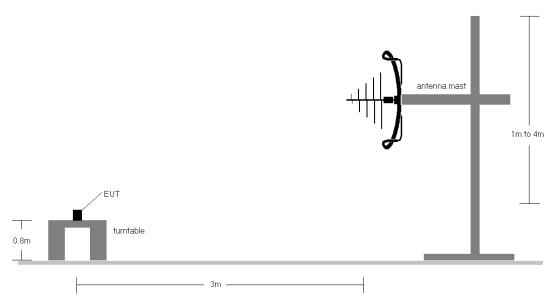


Figure 7-7. Radiated Test Setup < 1GHz

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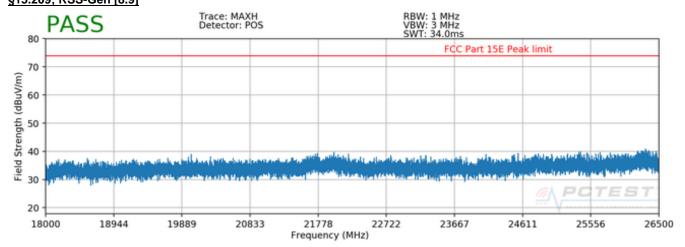


### **Test Notes**

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-66.
- 2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
- 9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz 1GHz frequency range, as shown in the subsequent plots.

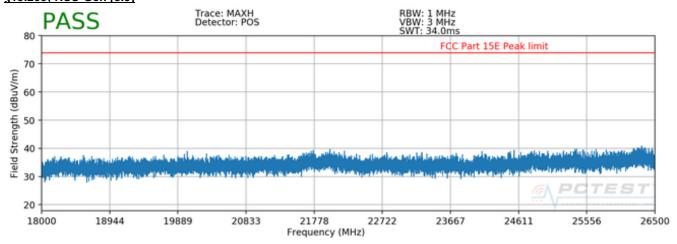


# SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-262. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a - U3 Ch. 157)

## SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]



Plot 7-263. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11a - U3 Ch. 157)

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#### **Line-Conducted Test Data** 7.8

§15.407; RSS-Gen [8.8]

### **Test Overview and Limit**

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBμV)		
(1411-12)	Quasi-peak	Average	
0.15 – 0.5	66 to 56*	56 to 46*	
0.5 – 5	56	46	
5 – 30	60	50	

Table 7-67. Conducted Limits

### **Test Procedures Used**

ANSI C63.10-2013, Section 6.2

### **Test Settings**

#### **Quasi-Peak Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

### **Average Field Strength Measurements**

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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<sup>\*</sup>Decreases with the logarithm of the frequency.



### **Test Setup**

The EUT and measurement equipment were set up as shown in the diagram below.

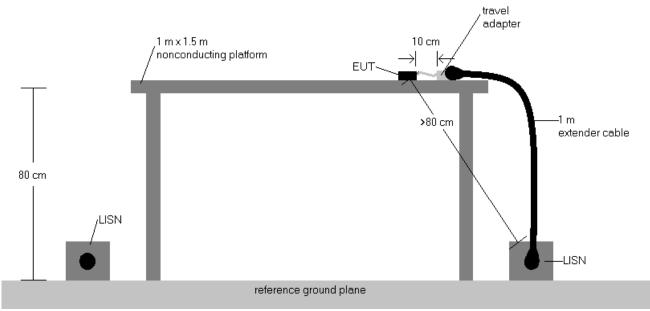


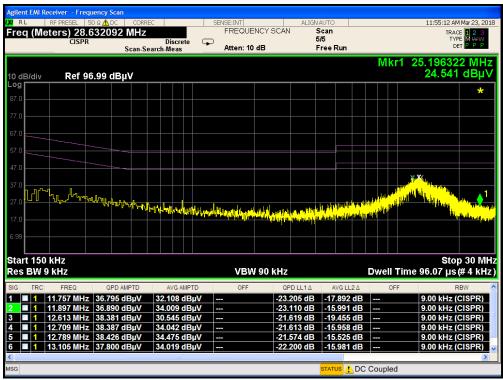
Figure 7-8. Test Instrument & Measurement Setup

### **Test Notes**

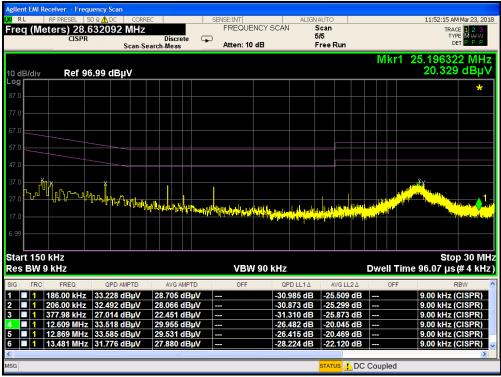
- 1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8). 2.
- 3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4. QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Corr. (dB)
- Margin (dB) = QP/AV Limit (dB $\mu$ V) QP/AV Level (dB $\mu$ V) 5.
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

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Plot 7-264. Line Conducted Plot with 802.11a UNII Band 1 (L1)



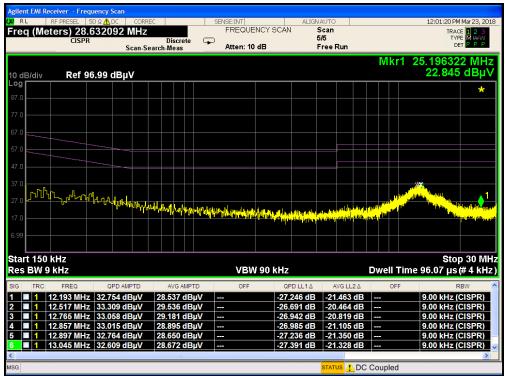
Plot 7-265. Line Conducted Plot with 802.11a UNII Band 1 (N)

FCC ID: ZNFV350A	PCTEST ENGINEERING LABORATOSY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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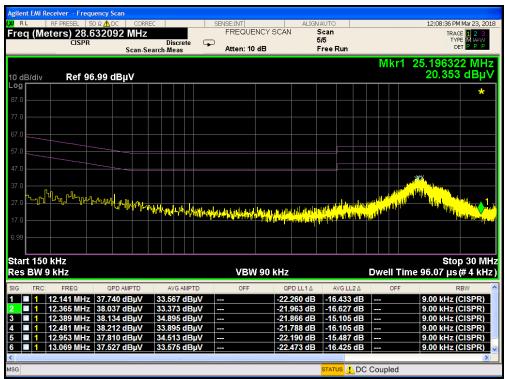
Plot 7-266. Line Conducted Plot with 802.11a UNII Band 2A (L1)



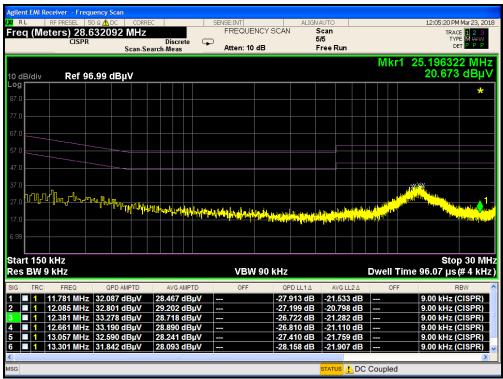
Plot 7-267. Line Conducted Plot with 802.11a UNII Band 2A (N)

FCC ID: ZNFV350A	ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	<b>L</b> G	Approved by: Quality Manager
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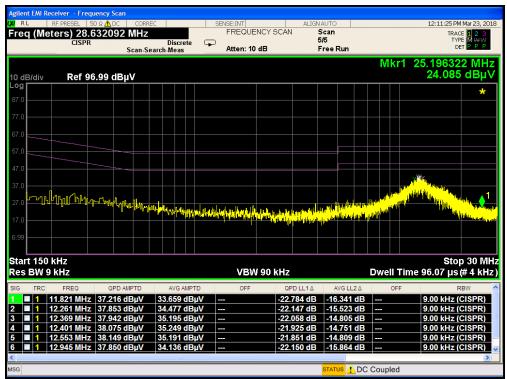
Plot 7-268. Line Conducted Plot with 802.11a UNII Band 2C (L1)



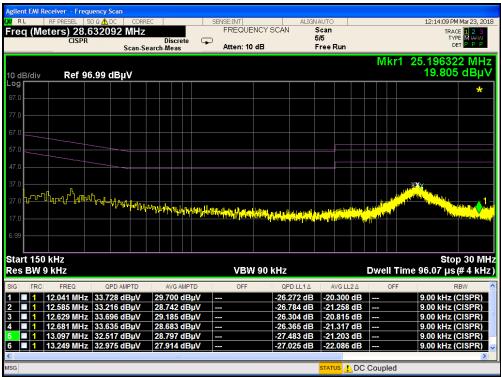
Plot 7-269. Line Conducted Plot with 802.11a UNII Band 2C (N)

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Plot 7-270. Line Conducted Plot with 802.11a UNII Band 3 (L1)



Plot 7-271. Line Conducted Plot with 802.11a UNII Band 3 (N)

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### 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFV350A** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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