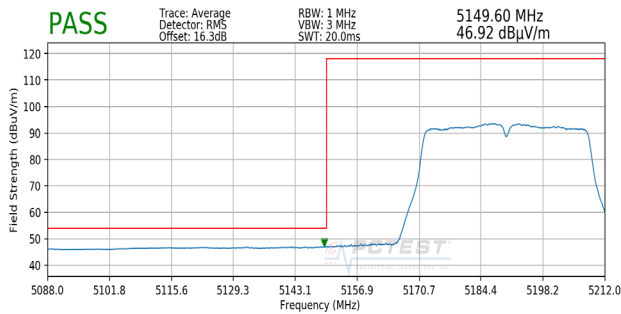
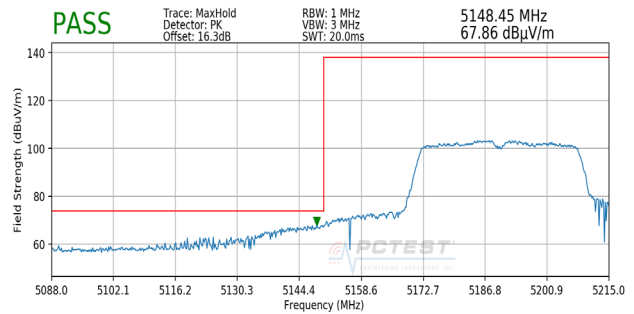


7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) \$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

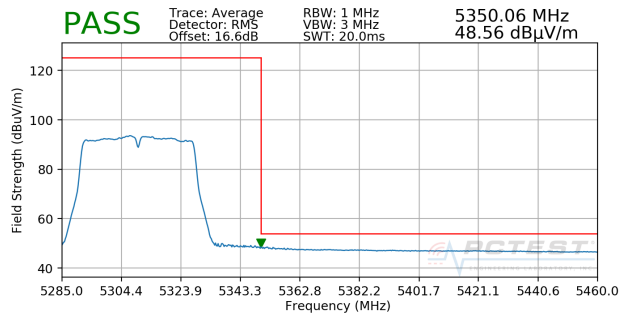


Plot 7-35. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

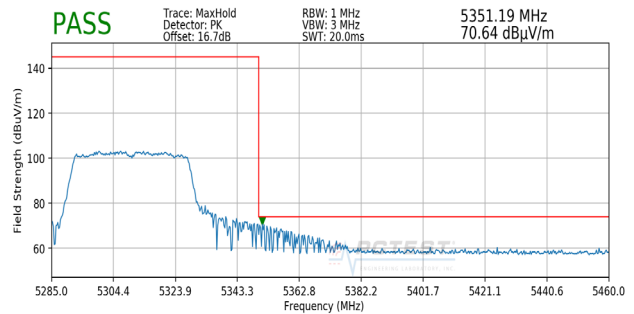


Plot 7-36. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



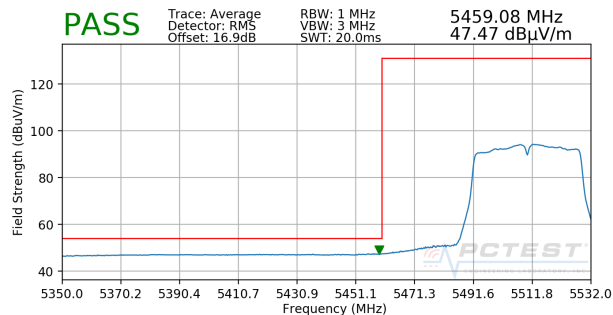
Plot 7-37. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



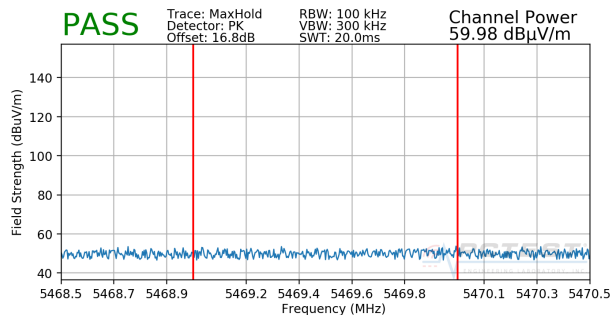
Plot 7-38. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFG850UM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1-ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 67 of 104

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

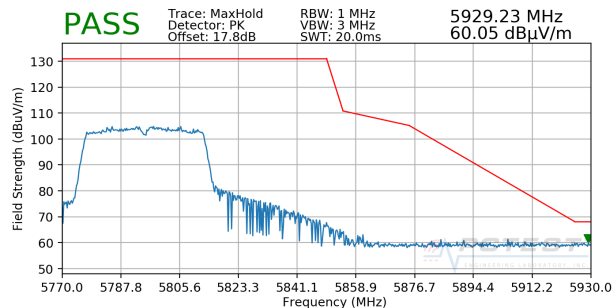


Plot 7-39. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C)



Plot 7-40. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C)

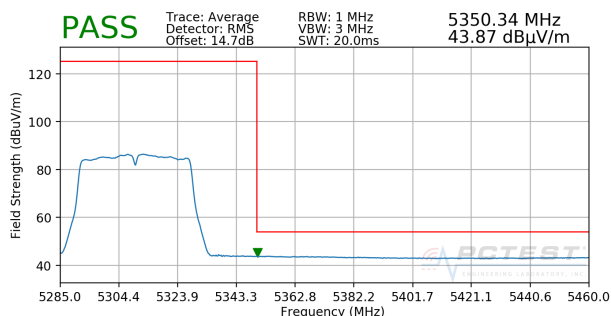
Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



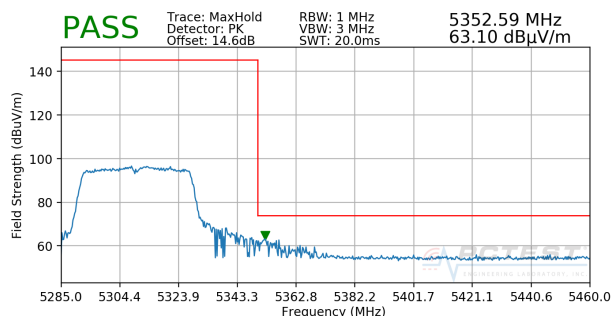
Plot 7-41. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3)

FCC ID: ZNFG850UM		MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1-ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 68 of 104

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62

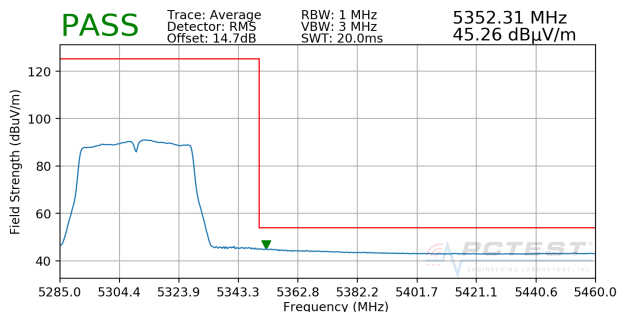


**Plot 7-42. Radiated Band Edge Plot SISO ANT1
(Average – WCP)**

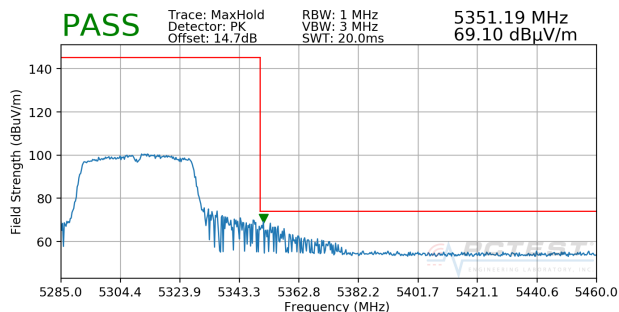


**Plot 7-43. Radiated Band Edge Plot SISO ANT1
(Peak – WCP)**

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62



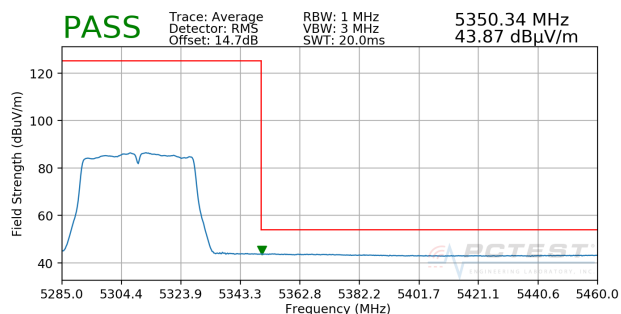
**Plot 7-44. Radiated Band Edge Plot SISO ANT1
(Average – Dual Display)**



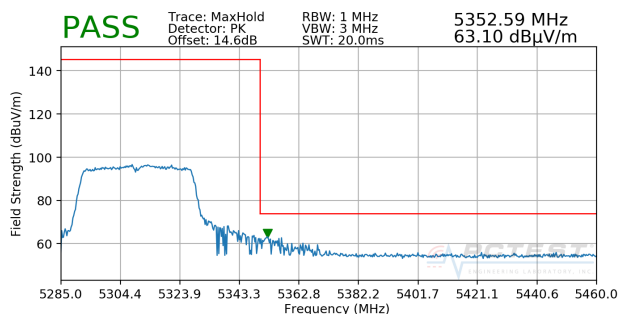
**Plot 7-45. Radiated Band Edge Plot SISO ANT1
(Peak – Dual Display)**

FCC ID: ZNFG850UM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1-ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 69 of 104

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62



**Plot 7-46. Radiated Band Edge Plot SISO ANT1
(Average - Dual Display and WCP)**



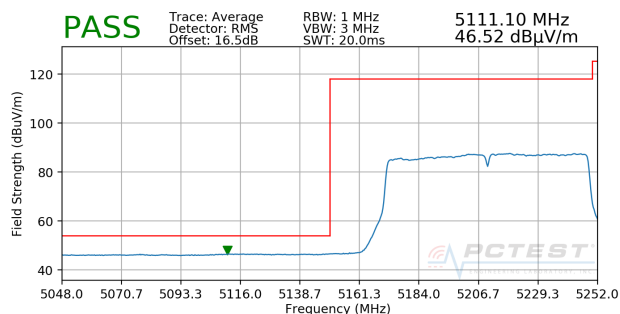
**Plot 7-47. Radiated Band Edge Plot SISO ANT1
(Peak - Dual Display and WCP)**

FCC ID: ZNFG850UM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 70 of 104

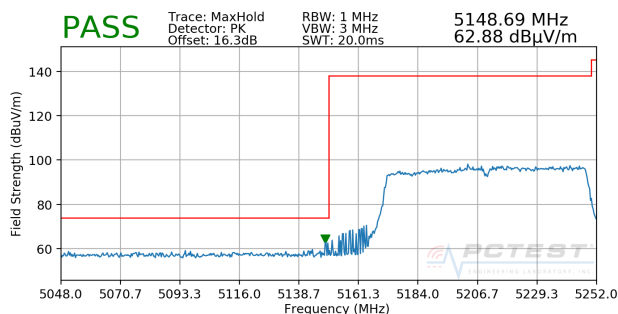
7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

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

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

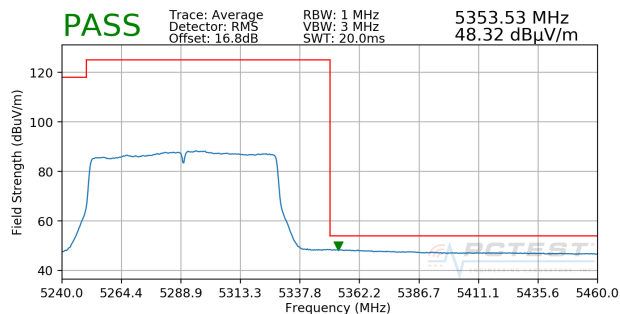


Plot 7-48. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

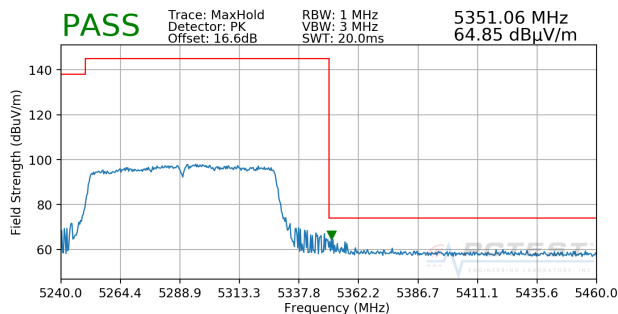


Plot 7-49. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



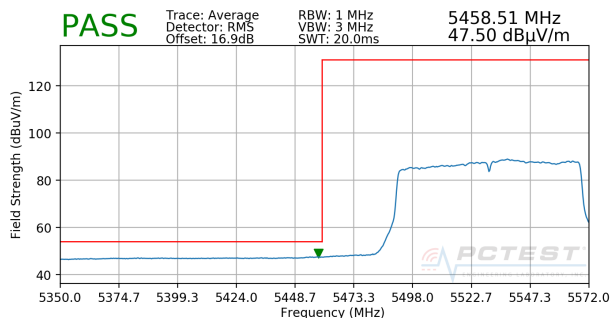
Plot 7-50. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



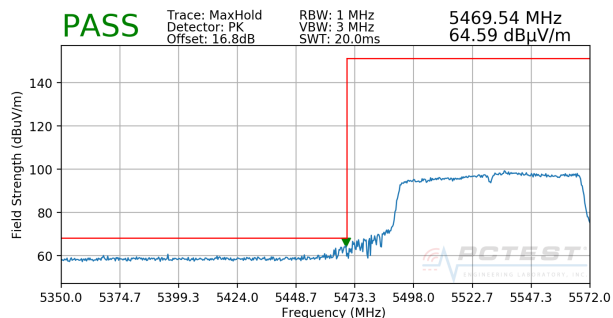
Plot 7-51. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: ZNFG850UM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1-ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 71 of 104

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106

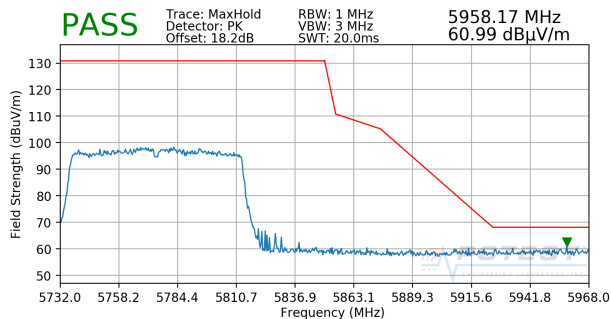


Plot 7-52. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-53. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

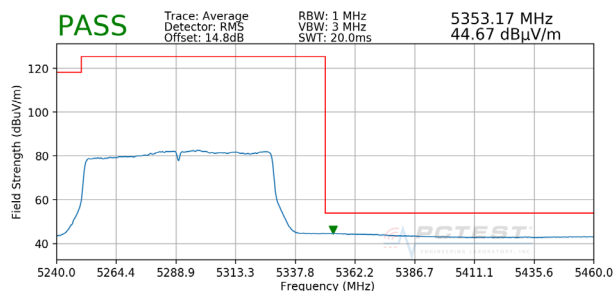
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155



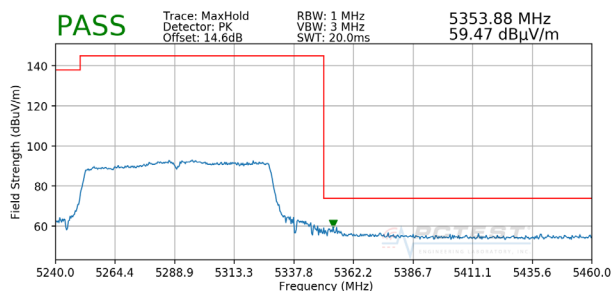
Plot 7-54. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

FCC ID: ZNFG850UM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1-ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 72 of 104

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58

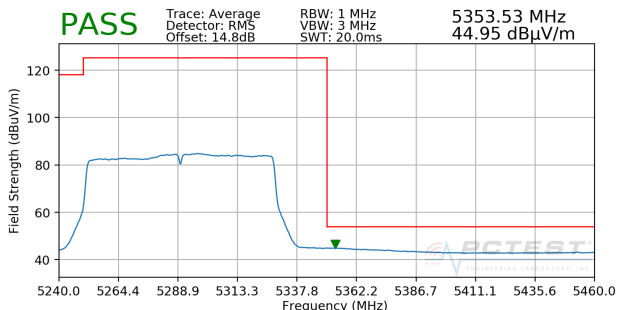


**Plot 7-55. Radiated Band Edge Plot SISO ANT1
(Average - WCP)**

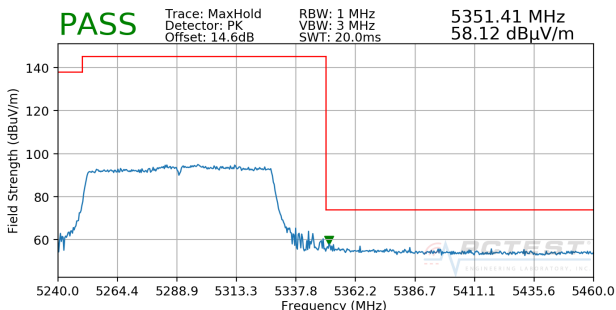


**Plot 7-56. Radiated Band Edge Plot SISO ANT1
(Peak - WCP)**

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58



**Plot 7-57. Radiated Band Edge Plot SISO ANT1
(Average - Dual Display)**



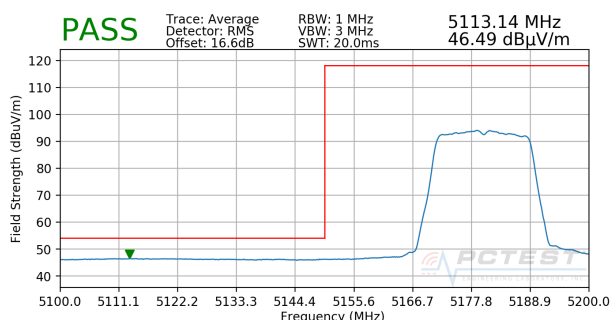
**Plot 7-58. Radiated Band Edge Plot SISO ANT1
(Peak - Dual Display)**

FCC ID: ZNFG850UM	 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) 		Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset	Page 73 of 104

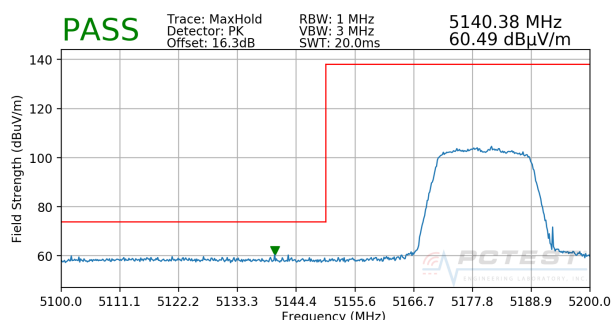
7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

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

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

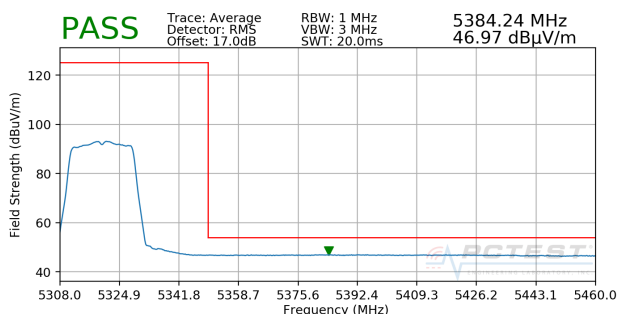


Plot 7-59. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

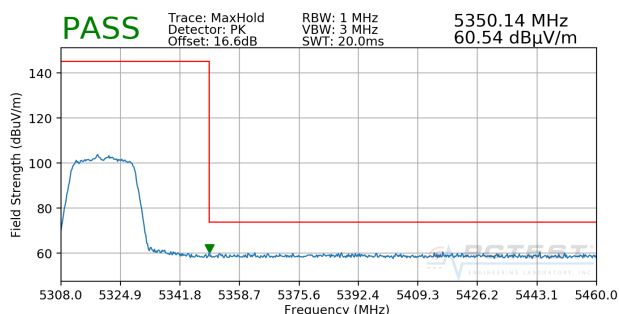


Plot 7-60. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11a
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



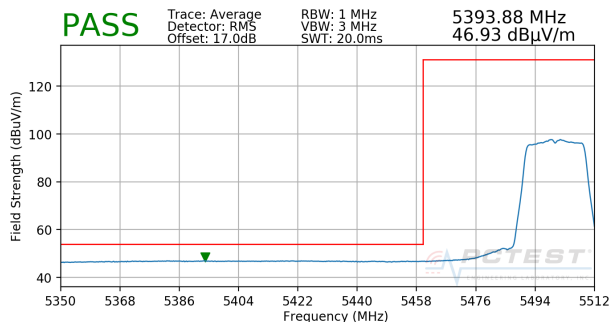
Plot 7-61. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



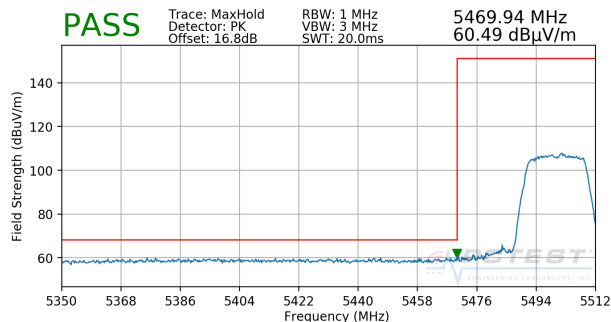
Plot 7-62. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFG850UM	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)	LG	Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 74 of 104

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100

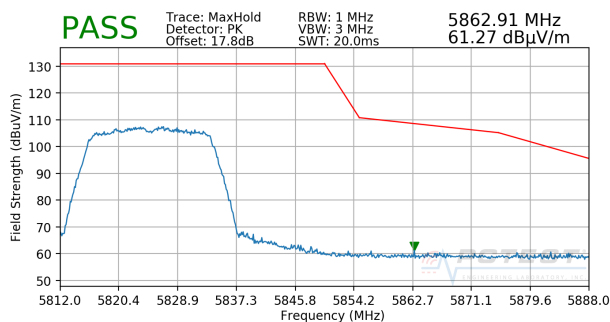


Plot 7-63. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-64. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

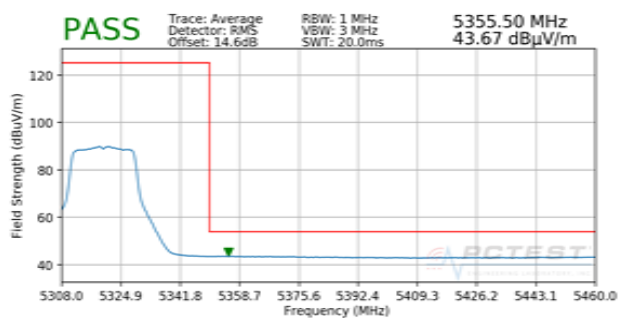
Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5825MHz
Channel: 165



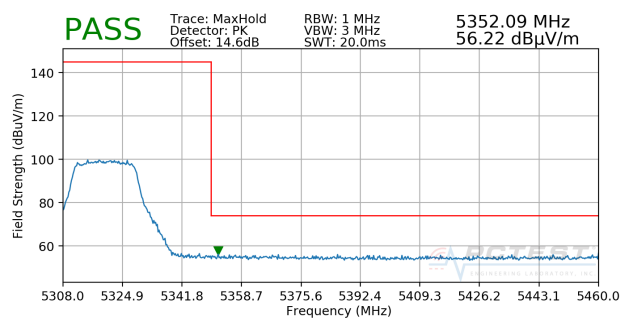
Plot 7-65. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

FCC ID: ZNFG850UM	 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 75 of 104

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5320MHz
Channel: 64

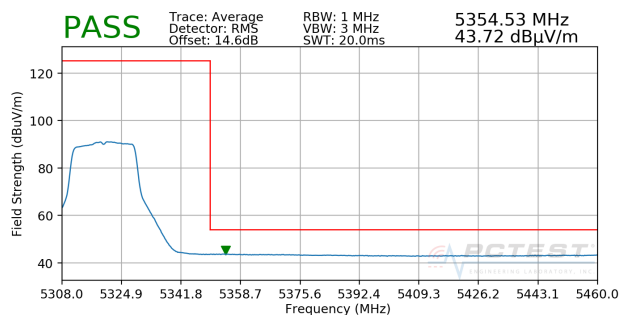


**Plot 7-66. Radiated Band Edge Plot SISO ANT2
(Average - WCP)**

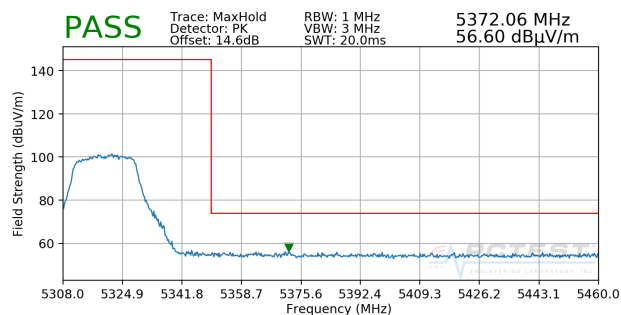


**Plot 7-67. Radiated Band Edge Plot SISO ANT2
(Peak - WCP)**

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5320MHz
Channel: 64



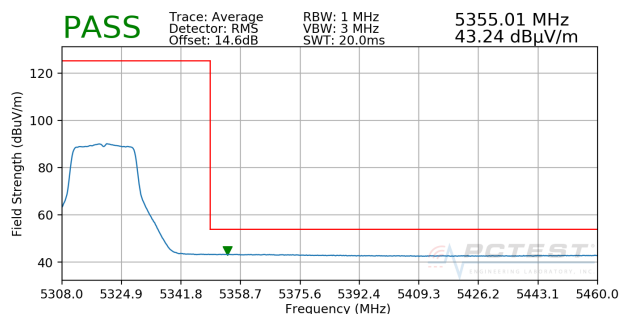
**Plot 7-68. Radiated Band Edge Plot SISO ANT2
(Average - Dual Display)**



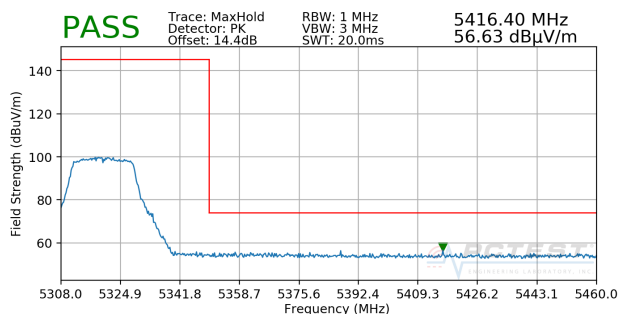
**Plot 7-69. Radiated Band Edge Plot SISO ANT2
(Peak - Dual Display)**

FCC ID: ZNFG850UM	 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) 		Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset	Page 76 of 104

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



**Plot 7-70. Radiated Band Edge Plot SISO ANT2
(Average - Dual Display and WCP)**



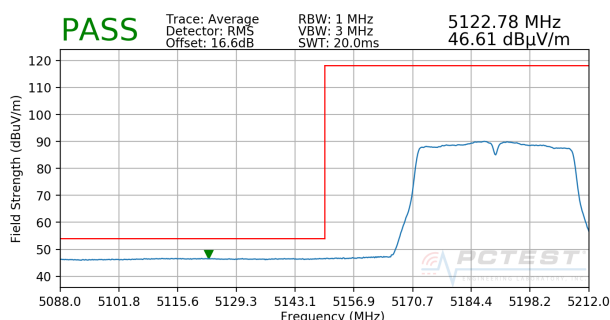
**Plot 7-71. Radiated Band Edge Plot SISO ANT2
(Peak - Dual Display and WCP)**

FCC ID: ZNFG850UM	 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 77 of 104

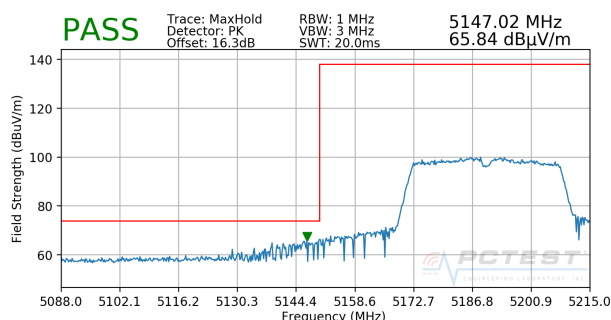
7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

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

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

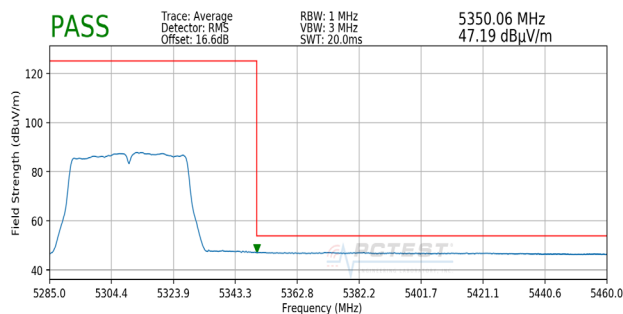


Plot 7-72. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

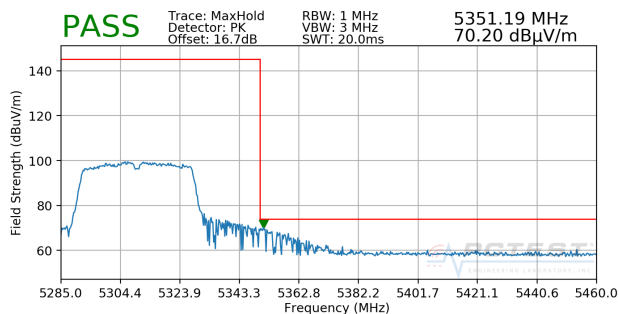


Plot 7-73. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



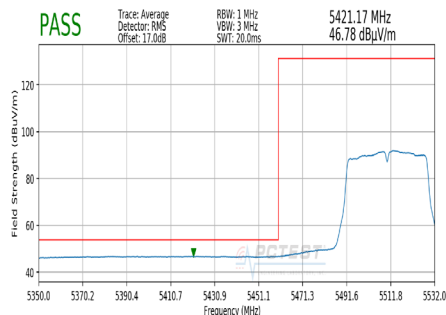
Plot 7-74. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



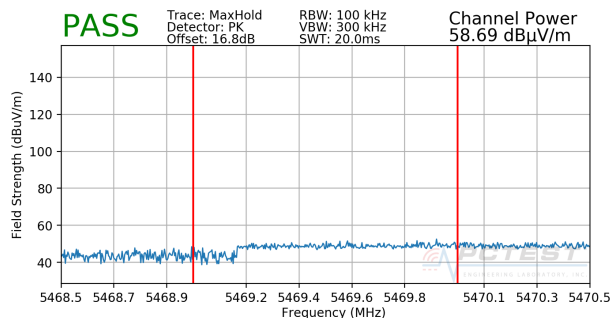
Plot 7-75. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: ZNFG850UM	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset	Page 78 of 104

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5510MHz
Channel: 102

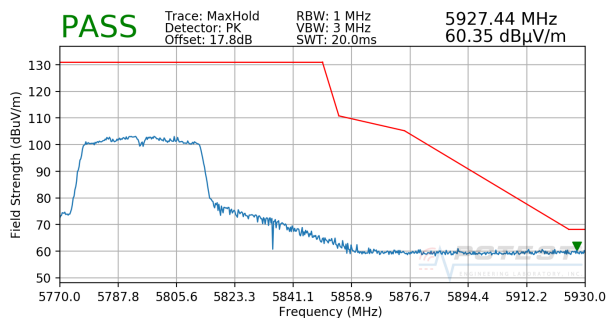


Plot 7-76. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-77. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

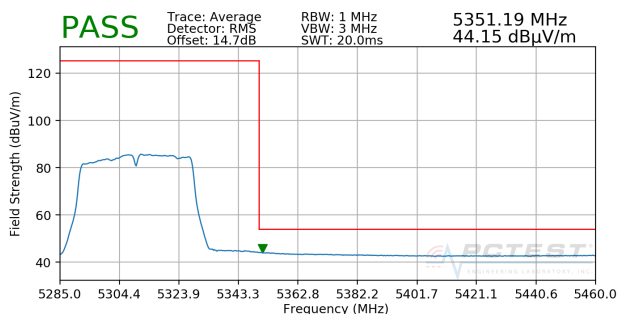
Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5795MHz
Channel: 159



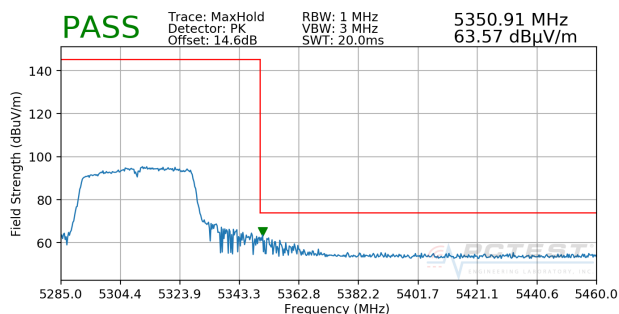
Plot 7-78. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

FCC ID: ZNFG850UM	 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 79 of 104

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62

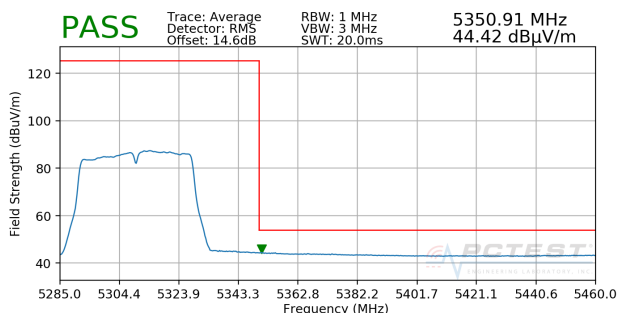


**Plot 7-79. Radiated Band Edge Plot SISO ANT2
(Average – WCP)**

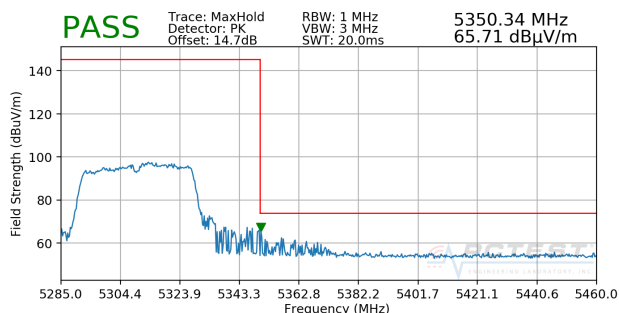


**Plot 7-80. Radiated Band Edge Plot SISO ANT2
(Peak – WCP)**

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62



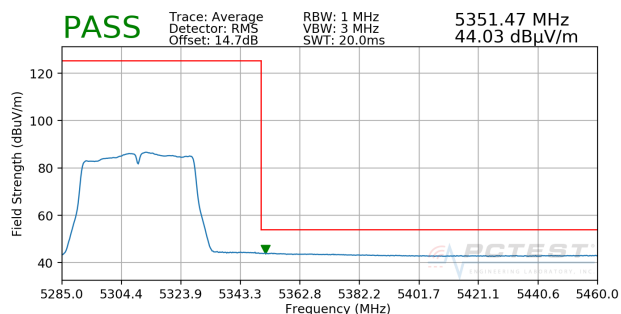
**Plot 7-81. Radiated Band Edge Plot SISO ANT2
(Average – Dual Display)**



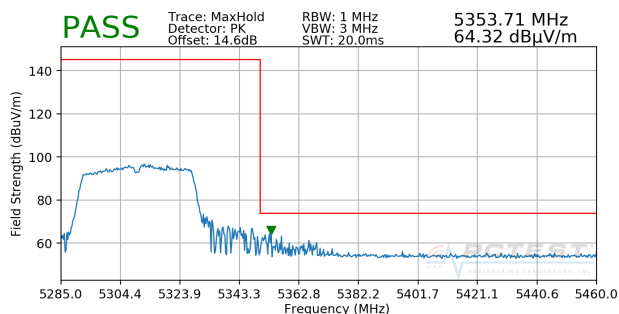
**Plot 7-82. Radiated Band Edge Plot SISO ANT2
(Peak – Dual Display)**

FCC ID: ZNFG850UM	MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset		Page 80 of 104

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62



**Plot 7-83. Radiated Band Edge Plot SISO ANT2
(Average - Dual Display and WCP)**



**Plot 7-84. Radiated Band Edge Plot SISO ANT2
(Peak - Dual Display and WCP)**

FCC ID: ZNFG850UM	 MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE) 		Approved by: Quality Manager
Test Report S/N: 1M1908190143-07-R1.ZNF	Test Dates: 8/19 - 9/4/2019	EUT Type: Portable Handset	Page 81 of 104