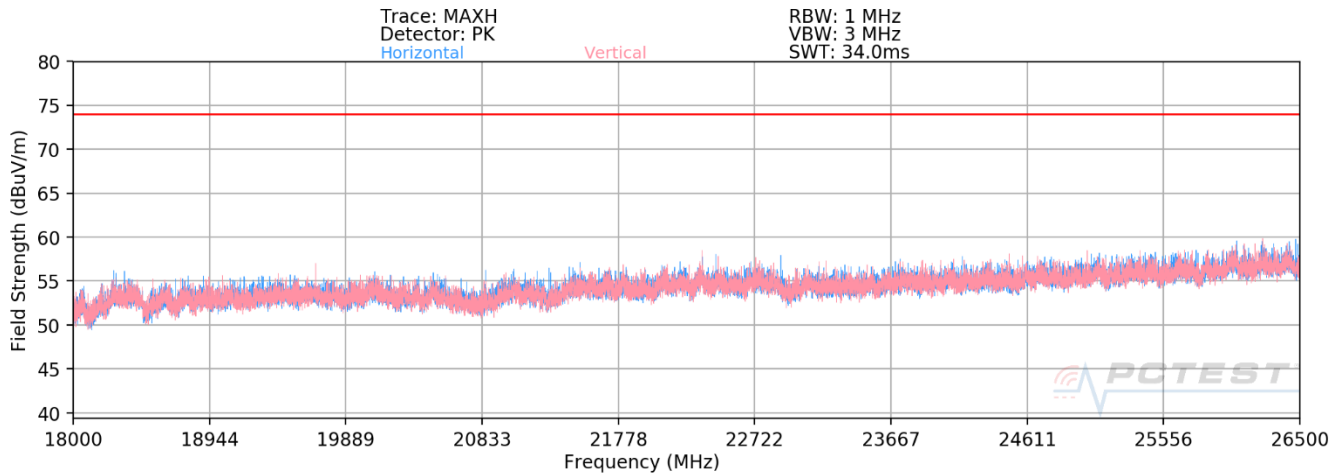
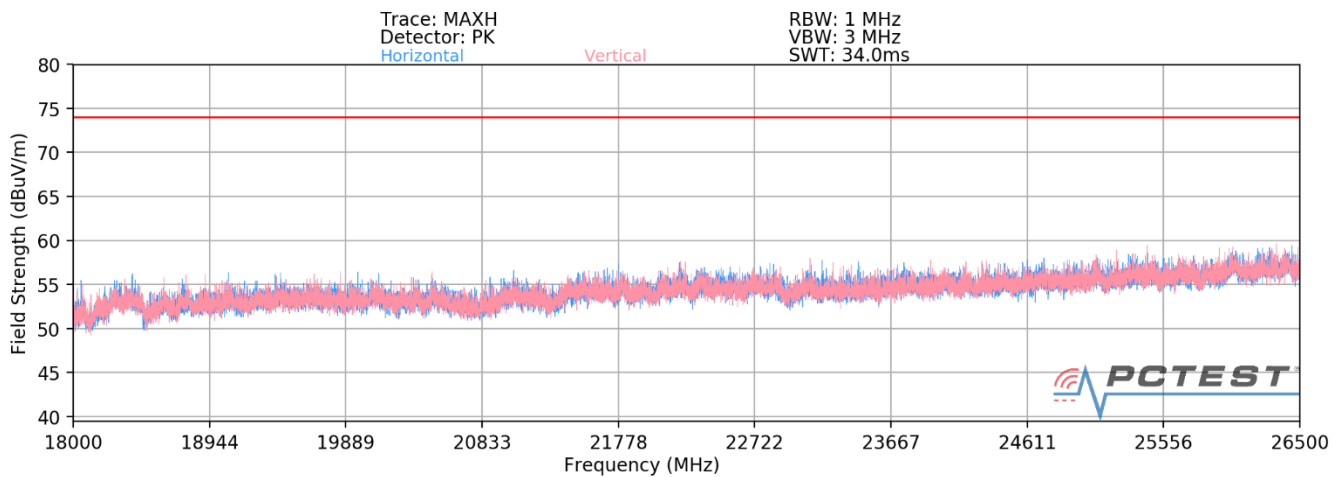


SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-63. Radiated Spurious Plot above 18GHz SISO ANT1 (802.11ax OFDMA – 106 Tones)



Plot 7-64. Radiated Spurious Plot above 18GHz SISO ANT1 (802.11ax OFDMA – 242 Tones)

FCC ID: PY7-57441Y	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 67 of 95

SISO Antenna-1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-82.38	8.97	33.59	53.98	-20.39
4824.00	Peak	H	-	-	-69.28	8.97	46.69	73.98	-27.29
12060.00	Avg	H	-	-	-85.48	22.12	43.64	53.98	-10.34
12060.00	Peak	H	-	-	-71.65	22.12	57.47	73.98	-16.51

Table 7-20. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-82.45	8.72	33.27	53.98	-20.71
4874.00	Peak	H	-	-	-69.64	8.72	46.08	73.98	-27.90
7311.00	Avg	H	-	-	-84.35	14.11	36.76	53.98	-17.22
7311.00	Peak	H	-	-	-71.76	14.11	49.35	73.98	-24.63
12185.00	Avg	H	-	-	-85.80	22.40	43.60	53.98	-10.38
12185.00	Peak	H	-	-	-72.87	22.40	56.53	73.98	-17.45

Table 7-21. Radiated Measurements SISO ANT1 (106 Tones)

FCC ID: PY7-57441Y	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 68 of 95

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	-	-	-82.42	9.12	33.70	53.98	-20.28
4924.00	Peak	H	-	-	-69.84	9.12	46.28	73.98	-27.70
7386.00	Avg	H	-	-	-84.62	14.48	36.86	53.98	-17.12
7386.00	Peak	H	-	-	-71.16	14.48	50.32	73.98	-23.66
12310.00	Avg	H	-	-	-86.21	22.71	43.50	53.98	-10.48
12310.00	Peak	H	-	-	-74.24	22.71	55.47	73.98	-18.51

Table 7-22. Radiated Measurements SISO ANT1 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-82.45	8.97	33.52	53.98	-20.46
4824.00	Peak	H	-	-	-69.41	8.97	46.56	73.98	-27.42
12060.00	Avg	H	-	-	-85.88	22.12	43.24	53.98	-10.74
12060.00	Peak	H	-	-	-73.03	22.12	56.09	73.98	-17.89

Table 7-23. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: PY7-57441Y	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 69 of 95

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	Avg	H	-	-	-82.13	8.72	33.59	53.98	-20.39
4874.00	Peak	H	-	-	-69.42	8.72	46.30	73.98	-27.68
7311.00	Avg	H	-	-	-84.30	14.11	36.81	53.98	-17.17
7311.00	Peak	H	-	-	-71.63	14.11	49.48	73.98	-24.50
12185.00	Avg	H	-	-	-85.73	22.40	43.67	53.98	-10.31
12185.00	Peak	H	-	-	-73.24	22.40	56.16	73.98	-17.82

Table 7-24. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

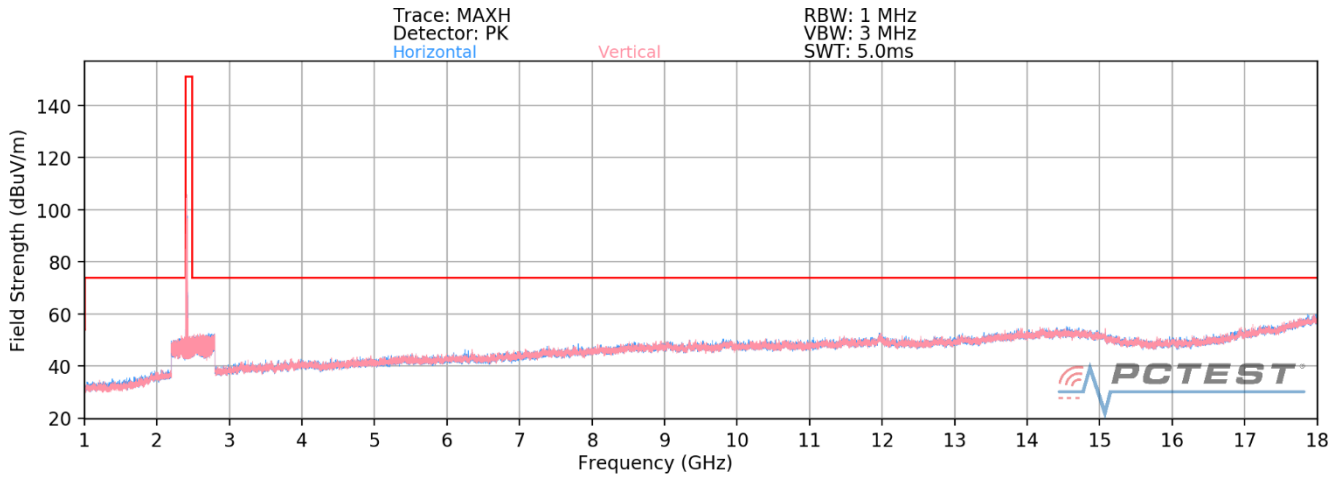
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	Avg	H	-	-	-82.45	9.12	33.67	53.98	-20.31
4924.00	Peak	H	-	-	-70.15	9.12	45.97	73.98	-28.01
7386.00	Avg	H	-	-	-84.71	14.48	36.77	53.98	-17.21
7386.00	Peak	H	-	-	-72.15	14.48	49.33	73.98	-24.65
12310.00	Avg	H	-	-	-86.12	22.71	43.59	53.98	-10.39
12310.00	Peak	H	-	-	-73.99	22.71	55.72	73.98	-18.26

Table 7-25. Radiated Measurements SISO ANT1 (242 Tones)

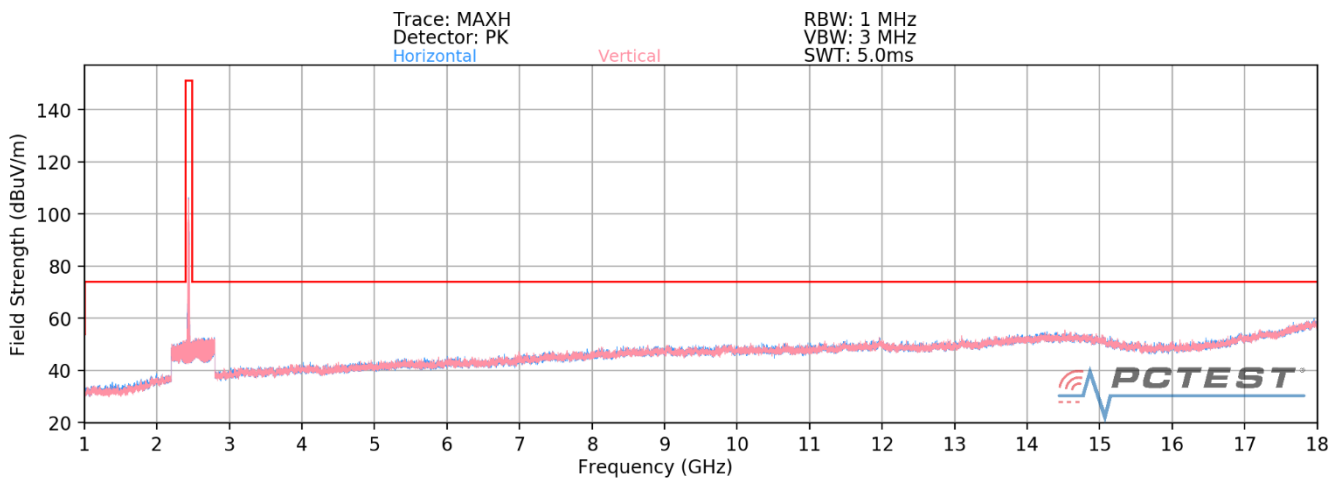
FCC ID: PY7-57441Y	 PCTEST [®] Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 70 of 95

7.7.2 SISO Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

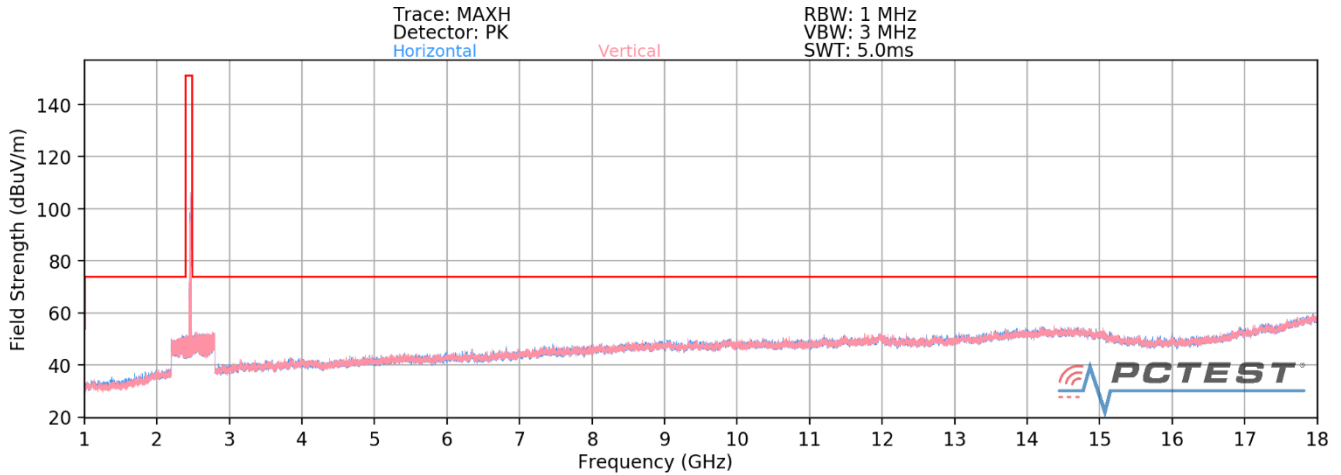


Plot 7-65. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 1)

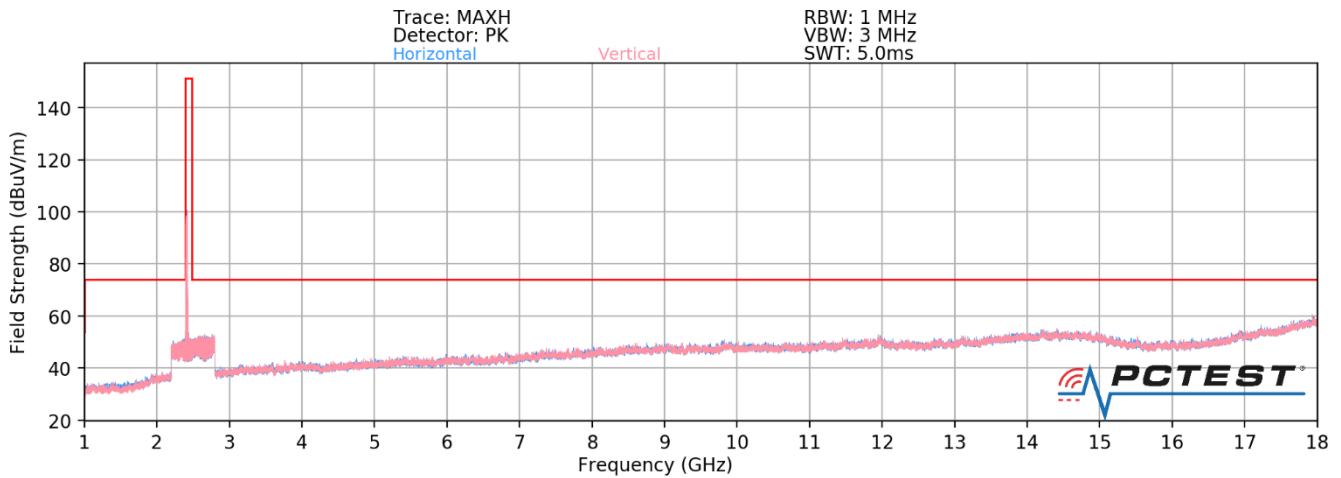


Plot 7-66. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 6)

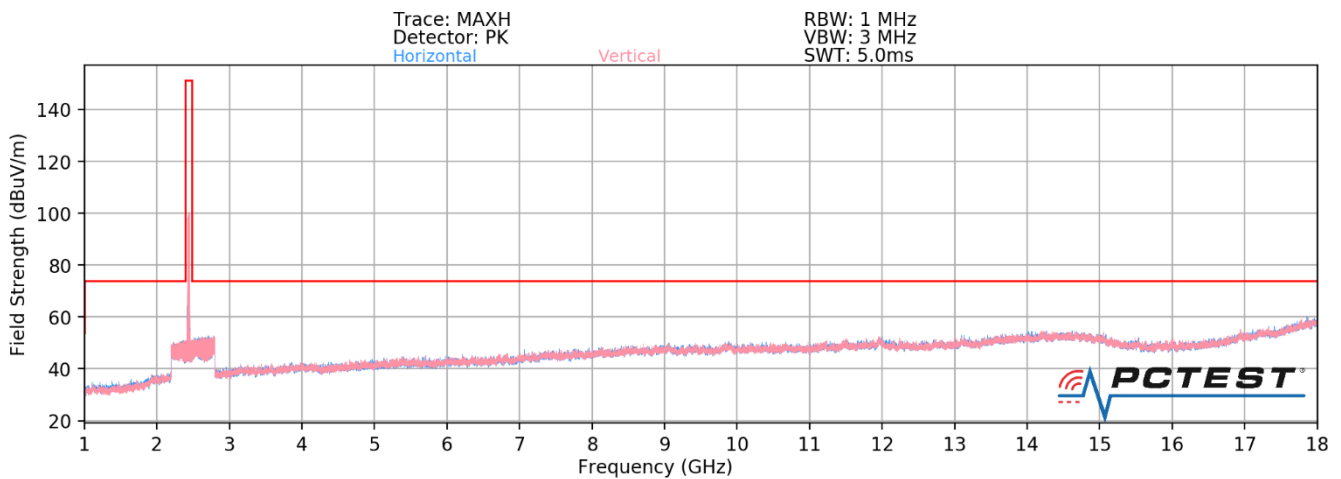
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 71 of 95



Plot 7-67. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 106 Tones – Ch. 11)

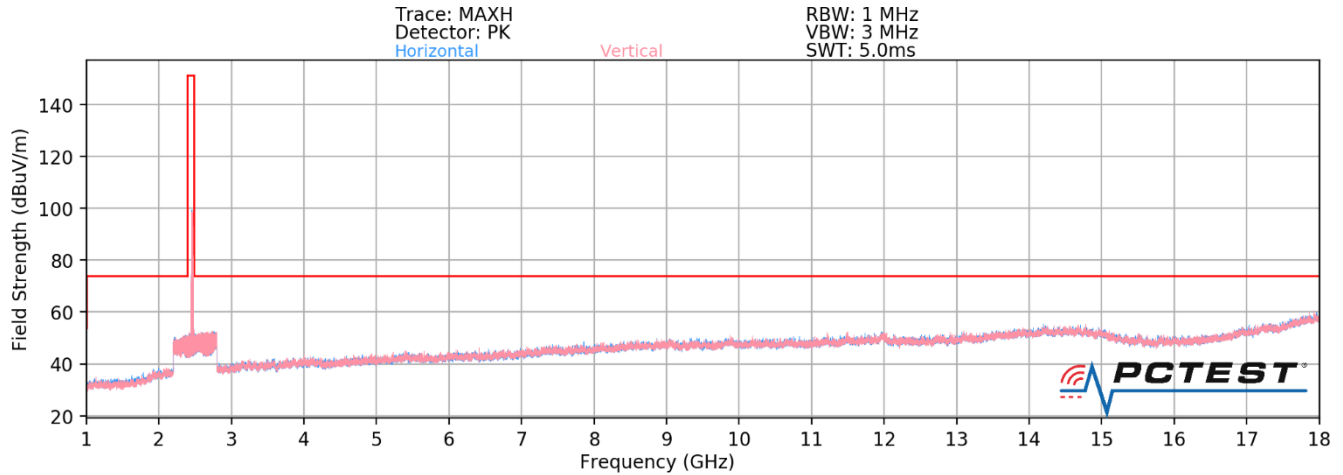


Plot 7-68. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 1)



Plot 7-69. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 6)

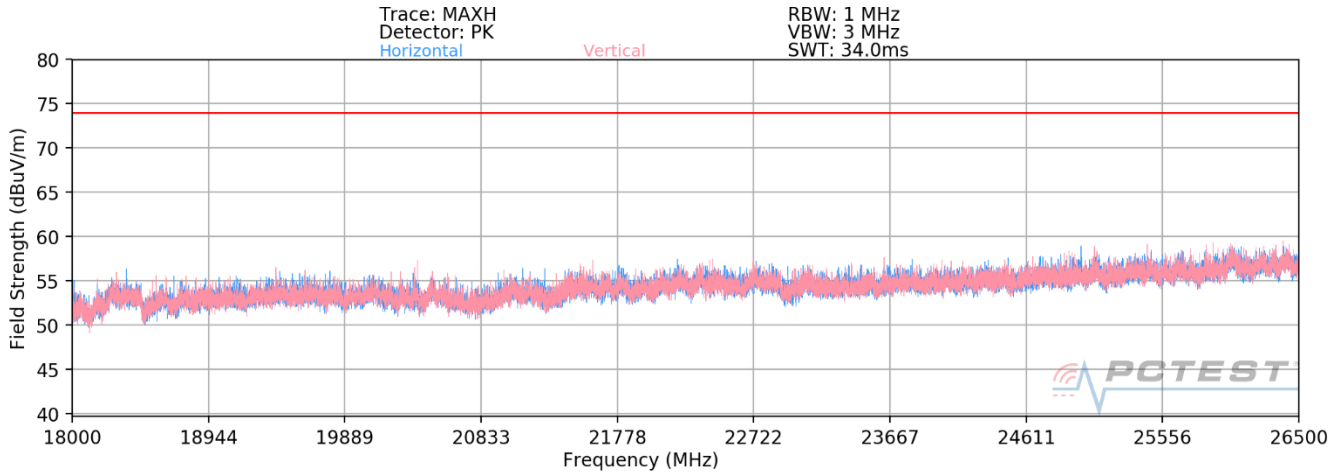
FCC ID: PY7-57441Y	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 72 of 95



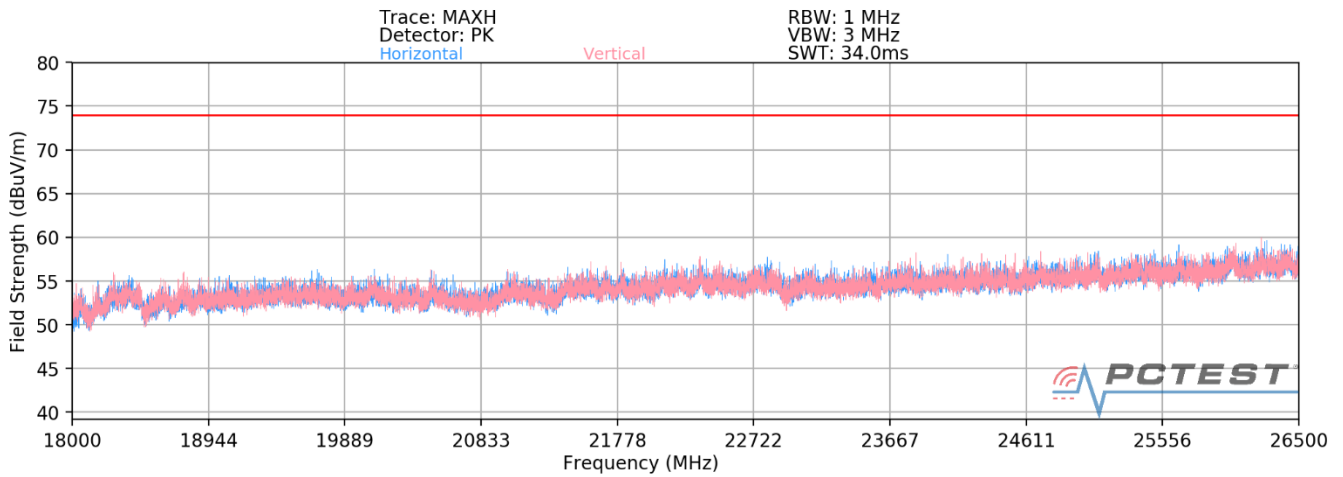
Plot 7-70. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax OFDMA – 242 Tones – Ch. 11)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 73 of 95

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)
§15.209; RSS-Gen [8.9]



Plot 7-71. Radiated Spurious Plot above 18GHz SISO ANT2 (802.11ax OFDMA – 106 Tones)



Plot 7-72. Radiated Spurious Plot above 18GHz SISO ANT2 (802.11ax OFDMA – 242 Tones)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 74 of 95

SISO Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-78.37	3.10	31.73	53.98	-22.25
4824.00	Peak	H	-	-	-65.91	3.10	44.19	73.98	-29.79
12060.00	Avg	H	-	-	-80.62	13.01	39.39	53.98	-14.59
12060.00	Peak	H	-	-	-68.19	13.01	51.82	73.98	-22.16

Table 7-26. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-78.67	3.30	31.63	53.98	-22.35
4874.00	Peak	H	-	-	-66.36	3.30	43.94	73.98	-30.04
7311.00	Avg	H	-	-	-79.96	8.58	35.62	53.98	-18.36
7311.00	Peak	H	-	-	-67.98	8.58	47.60	73.98	-26.38
12185.00	Avg	H	-	-	-81.37	13.27	38.90	53.98	-15.08
12185.00	Peak	H	-	-	-69.33	13.27	50.94	73.98	-23.04

Table 7-27. Radiated Measurements SISO ANT2 (106 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 75 of 95

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.91	3.82	31.91	53.98	-22.07
4924.00	Peak	H	-	-	-67.06	3.82	43.76	73.98	-30.22
7386.00	Avg	H	-	-	-79.15	7.91	35.76	53.98	-18.22
7386.00	Peak	H	-	-	-66.99	7.91	47.92	73.98	-26.06
12310.00	Avg	H	-	-	-81.19	13.52	39.33	53.98	-14.65
12310.00	Peak	H	-	-	-69.94	13.52	50.58	73.98	-23.40

Table 7-28. Radiated Measurements SISO ANT2 (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-78.38	3.10	31.72	53.98	-22.26
4824.00	Peak	H	-	-	-66.61	3.10	43.49	73.98	-30.49
12060.00	Avg	H	-	-	-80.61	13.01	39.40	53.98	-14.58
12060.00	Peak	H	-	-	-68.41	13.01	51.60	73.98	-22.38

Table 7-29. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: PY7-57441Y	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 76 of 95

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-78.71	3.30	31.59	53.98	-22.39
4874.00	Peak	H	-	-	-66.82	3.30	43.48	73.98	-30.50
7311.00	Avg	H	-	-	-79.98	8.58	35.60	53.98	-18.38
7311.00	Peak	H	-	-	-68.07	8.58	47.51	73.98	-26.47
12185.00	Avg	H	-	-	-81.36	13.27	38.91	53.98	-15.07
12185.00	Peak	H	-	-	-69.44	13.27	50.83	73.98	-23.15

Table 7-30. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

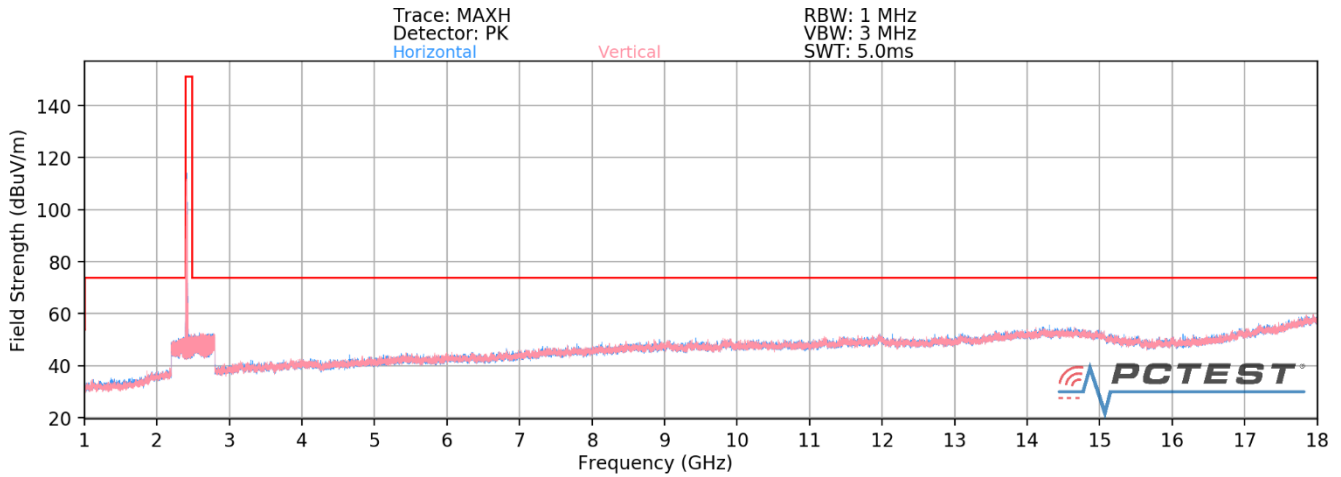
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.91	3.82	31.91	53.98	-22.07
4924.00	Peak	H	-	-	-66.37	3.82	44.45	73.98	-29.53
7386.00	Avg	H	-	-	-79.23	7.91	35.68	53.98	-18.30
7386.00	Peak	H	-	-	-66.35	7.91	48.56	73.98	-25.42
12310.00	Avg	H	-	-	-81.23	13.52	39.29	53.98	-14.69
12310.00	Peak	H	-	-	-69.79	13.52	50.73	73.98	-23.25

Table 7-31. Radiated Measurements SISO ANT2 (242 Tones)

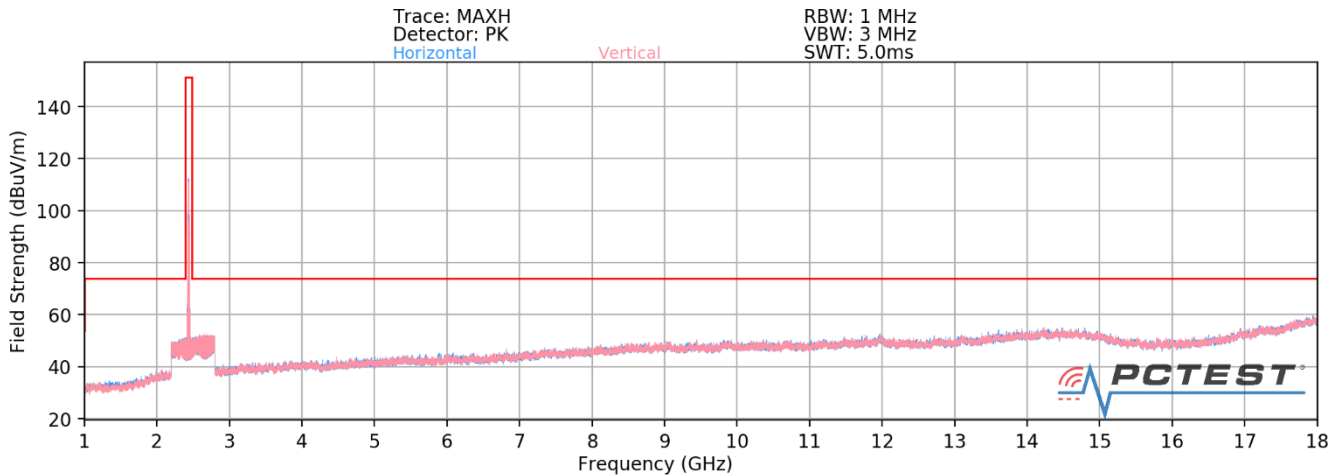
FCC ID: PY7-57441Y	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset	Page 77 of 95	

7.7.3 MIMO Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

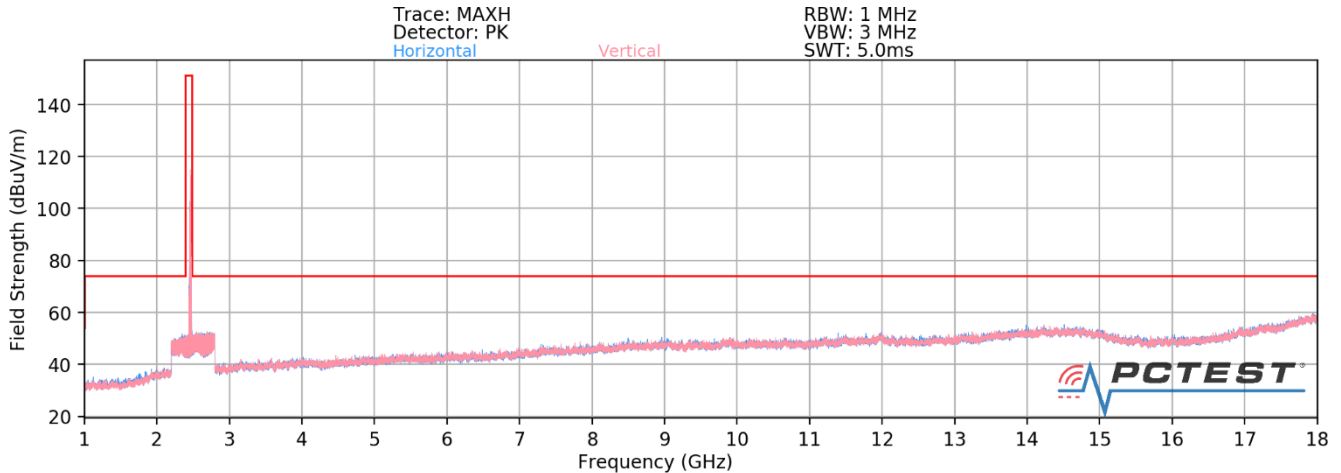


Plot 7-73. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 106 Tones – Ch. 1)

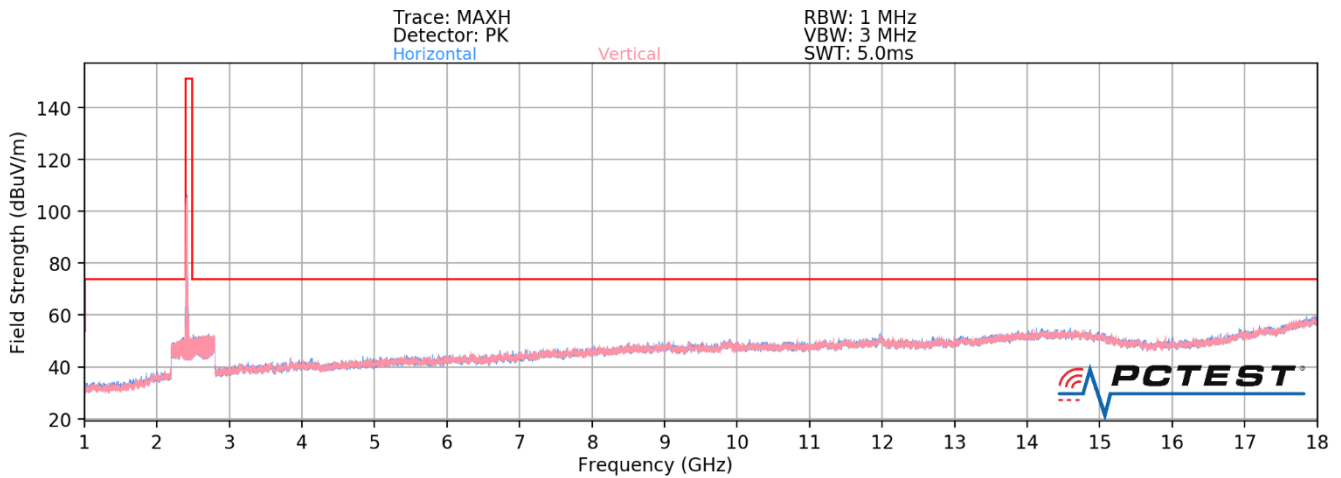


Plot 7-74. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 106 Tones – Ch. 6)

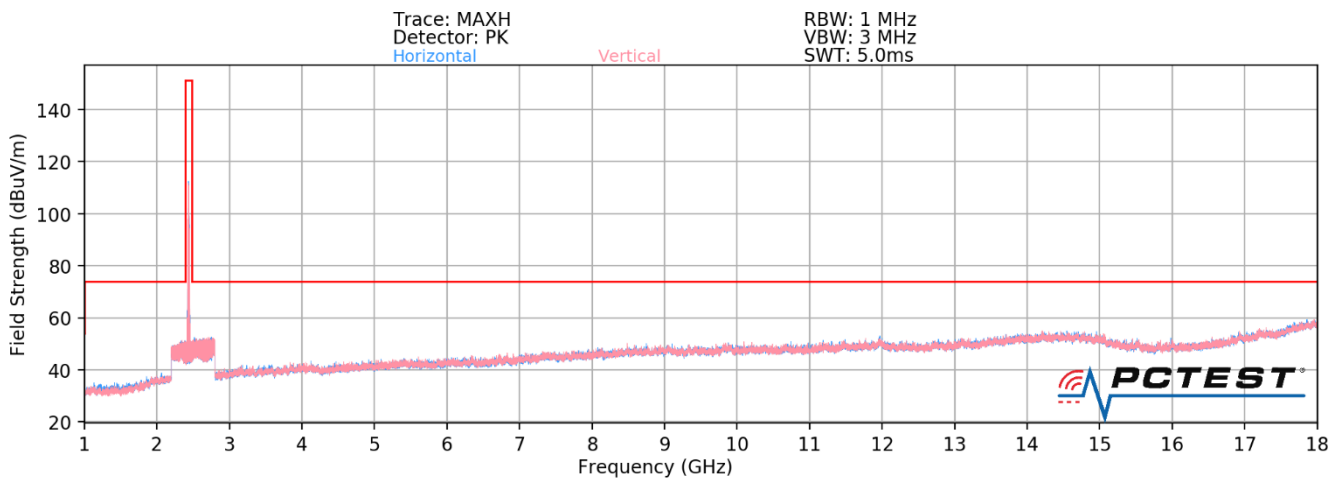
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 78 of 95



Plot 7-75. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 106 Tones – Ch. 11)

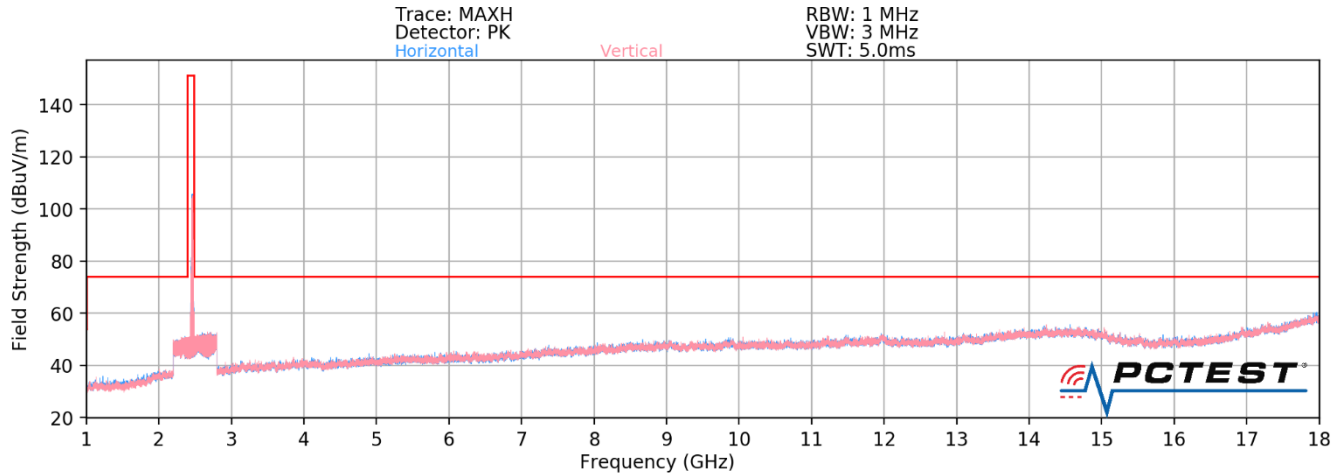


Plot 7-76. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 1)



Plot 7-77. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 6)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 79 of 95

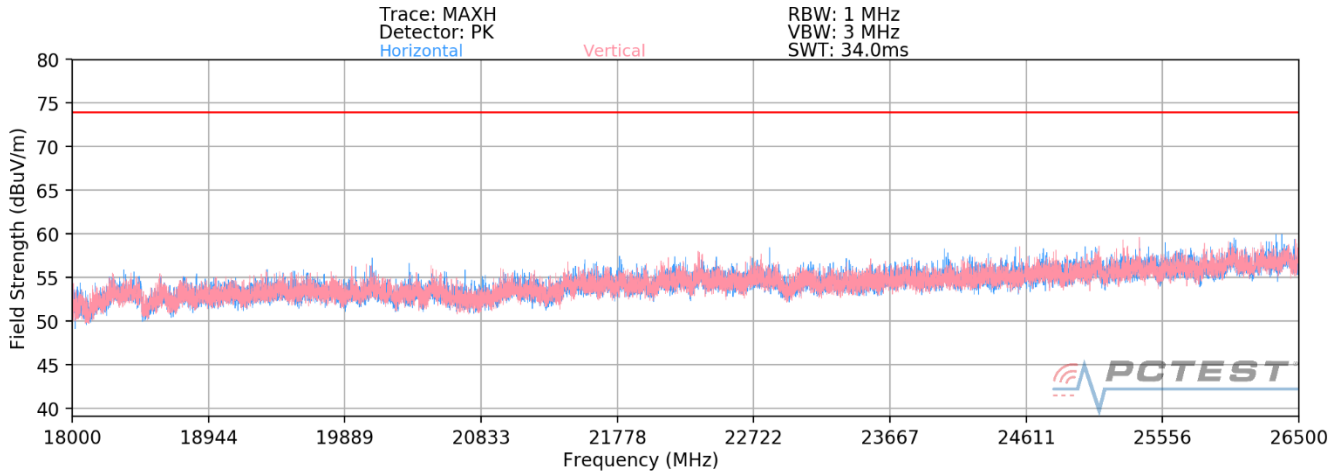


Plot 7-78. Radiated Spurious Plot above 1GHz MIMO (802.11ax OFDMA – 242 Tones – Ch. 11)

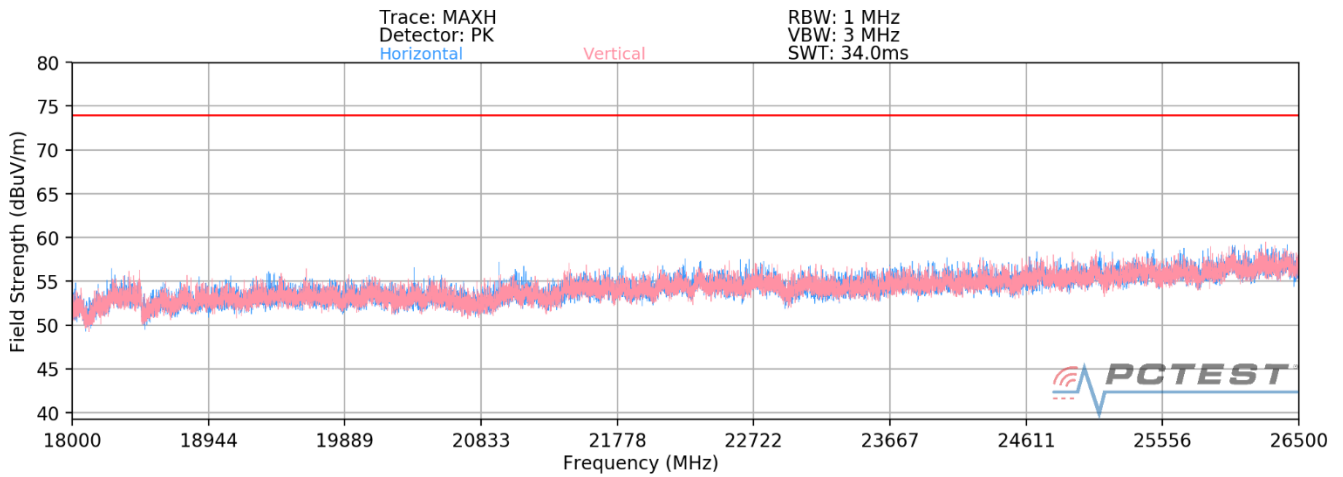
FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset	Page 80 of 95	

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)

§15.209; RSS-Gen [8.9]



Plot 7-79. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 106 Tones)



Plot 7-80. Radiated Spurious Plot above 18GHz MIMO (802.11ax OFDMA – 242 Tones)

FCC ID: PY7-57441Y	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 81 of 95

MIMO Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-78.36	3.10	31.74	53.98	-22.24
4824.00	Peak	H	-	-	-66.52	3.10	43.58	73.98	-30.40
12060.00	Avg	H	-	-	-80.62	13.01	39.39	53.98	-14.59
12060.00	Peak	H	-	-	-68.51	13.01	51.50	73.98	-22.48

Table 7-32. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-78.67	3.30	31.63	53.98	-22.35
4874.00	Peak	H	-	-	-66.27	3.30	44.03	73.98	-29.95
7311.00	Avg	H	-	-	-80.04	8.58	35.54	53.98	-18.44
7311.00	Peak	H	-	-	-67.77	8.58	47.81	73.98	-26.17
12185.00	Avg	H	-	-	-81.36	13.27	38.91	53.98	-15.07
12185.00	Peak	H	-	-	-69.42	13.27	50.85	73.98	-23.13

Table 7-33. Radiated Measurements MIMO (106 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 82 of 95

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 53
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.92	3.82	31.90	53.98	-22.08
4924.00	Peak	H	-	-	-66.88	3.82	43.94	73.98	-30.04
7386.00	Avg	H	-	-	-79.18	7.91	35.73	53.98	-18.25
7386.00	Peak	H	-	-	-65.95	7.91	48.96	73.98	-25.02
12310.00	Avg	H	-	-	-81.23	13.52	39.29	53.98	-14.69
12310.00	Peak	H	-	-	-69.23	13.52	51.29	73.98	-22.69

Table 7-34. Radiated Measurements MIMO (106 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	Avg	H	-	-	-78.38	3.10	31.72	53.98	-22.26
4824.00	Peak	H	-	-	-66.19	3.10	43.91	73.98	-30.07
12060.00	Avg	H	-	-	-80.67	13.01	39.34	53.98	-14.64
12060.00	Peak	H	-	-	-68.53	13.01	51.48	73.98	-22.50

Table 7-35. Radiated Measurements MIMO (242 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4874.00	Avg	H	-	-	-78.65	3.30	31.65	53.98	-22.33
4874.00	Peak	H	-	-	-66.73	3.30	43.57	73.98	-30.41
7311.00	Avg	H	-	-	-79.91	8.58	35.67	53.98	-18.31
7311.00	Peak	H	-	-	-67.76	8.58	47.82	73.98	-26.16
12185.00	Avg	H	-	-	-81.30	13.27	38.97	53.98	-15.01
12185.00	Peak	H	-	-	-69.50	13.27	50.77	73.98	-23.21

Table 7-36. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4924.00	Avg	H	-	-	-78.89	3.82	31.93	53.98	-22.05
4924.00	Peak	H	-	-	-66.59	3.82	44.23	73.98	-29.75
7386.00	Avg	H	-	-	-79.21	7.91	35.70	53.98	-18.28
7386.00	Peak	H	-	-	-67.29	7.91	47.62	73.98	-26.36
12310.00	Avg	H	-	-	-81.19	13.52	39.33	53.98	-14.65
12310.00	Peak	H	-	-	-69.50	13.52	51.02	73.98	-22.96

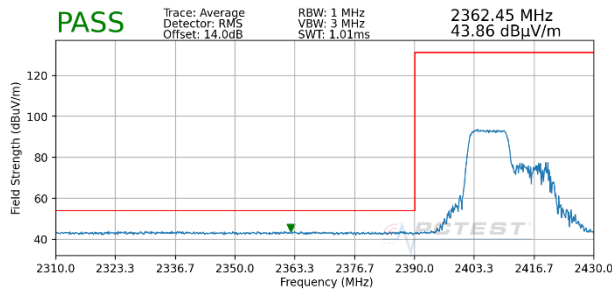
Table 7-37. Radiated Measurements MIMO (242 Tones)

FCC ID: PY7-57441Y	 PCTEST® Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
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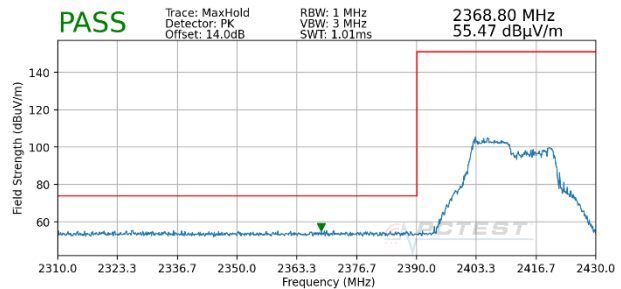
7.7.4 SISO Antenna-1 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

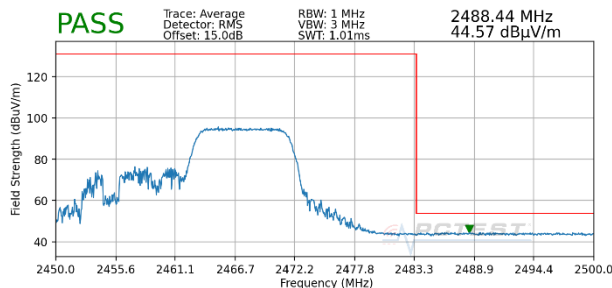


Plot 7-81. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 106 Tones)

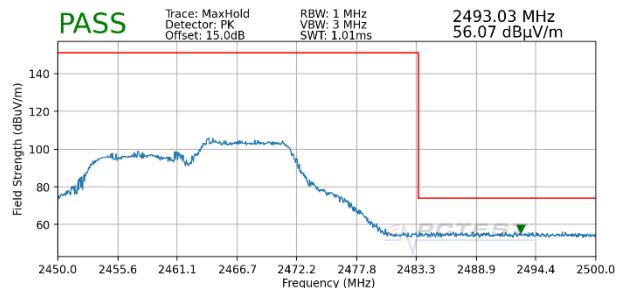


Plot 7-82. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



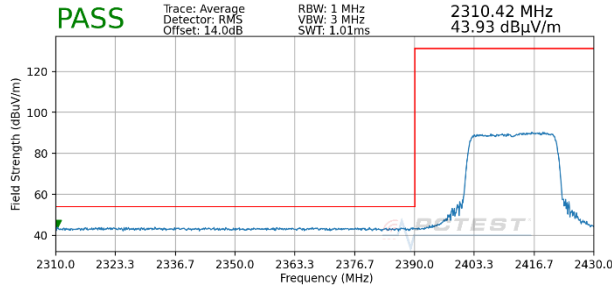
Plot 7-83. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 106 Tones)



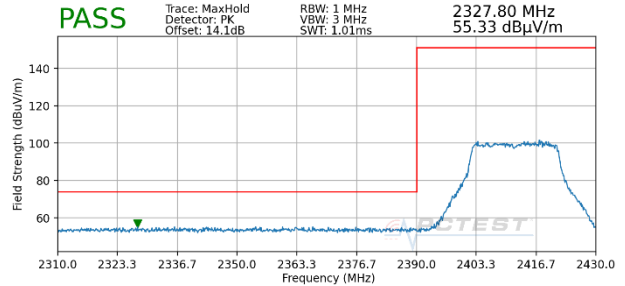
Plot 7-84. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 106 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 85 of 95

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

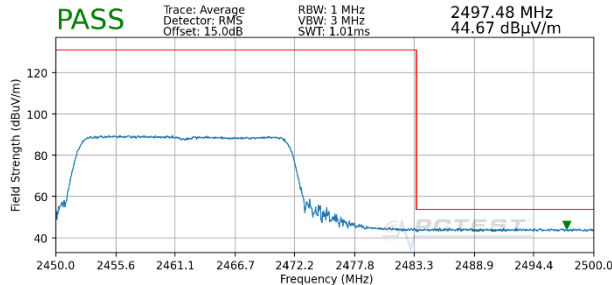


Plot 7-85. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Average – 242 Tones)

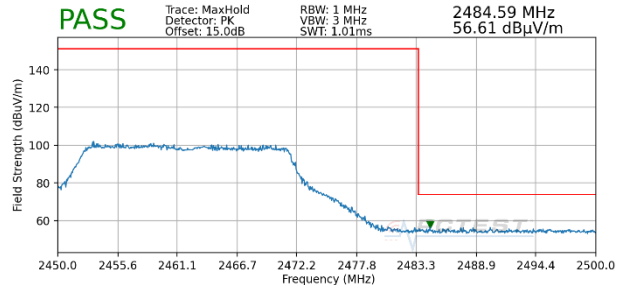


Plot 7-86. Radiated Restricted Lower Band Edge Measurement SISO ANT1 (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-87. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Average – 242 Tones)



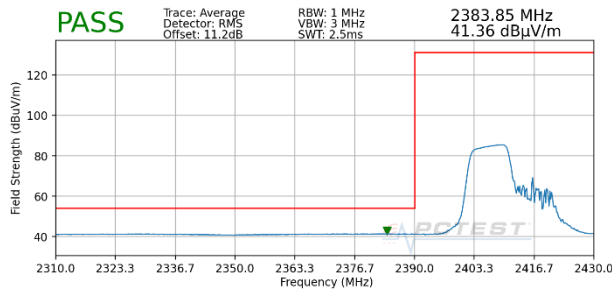
Plot 7-88. Radiated Restricted Upper Band Edge Measurement SISO ANT1 (Peak – 242 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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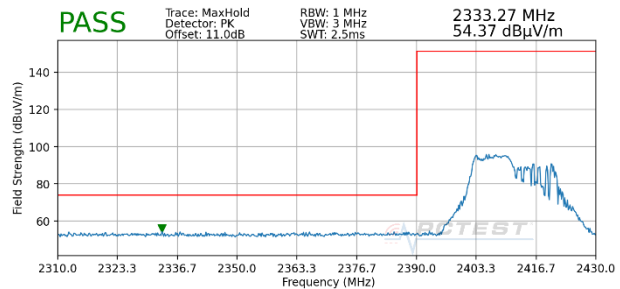
7.7.5 SISO Antenna-2 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

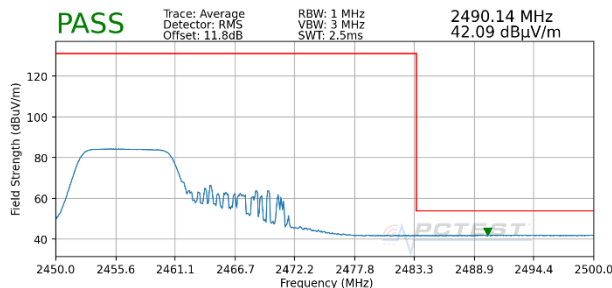


Plot 7-89. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 106 Tones)

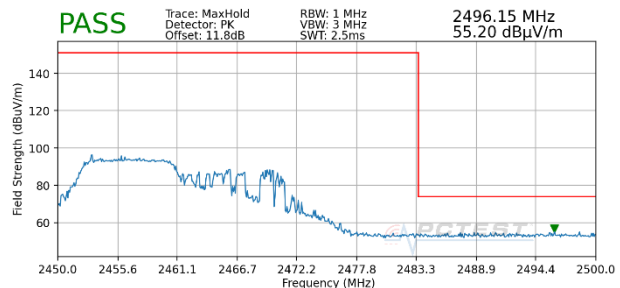


Plot 7-90. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



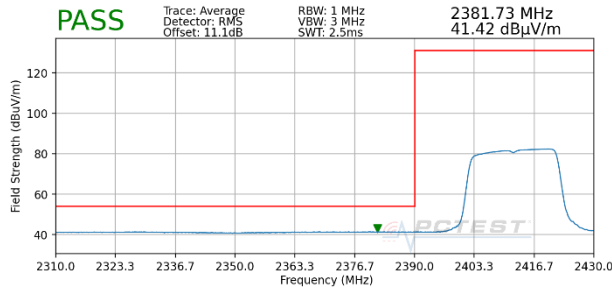
Plot 7-91. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 106 Tones)



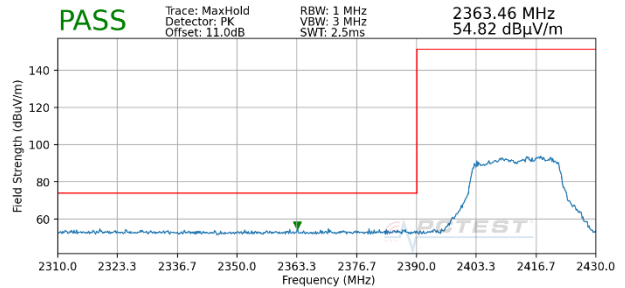
Plot 7-92. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 106 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

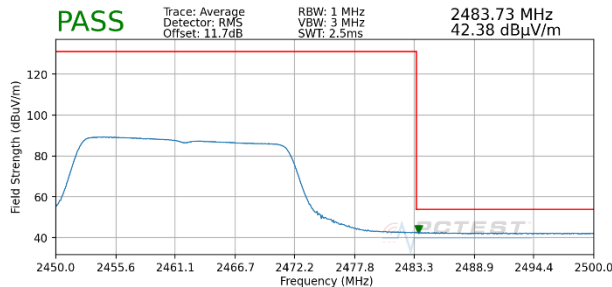


Plot 7-93. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Average – 242 Tones)

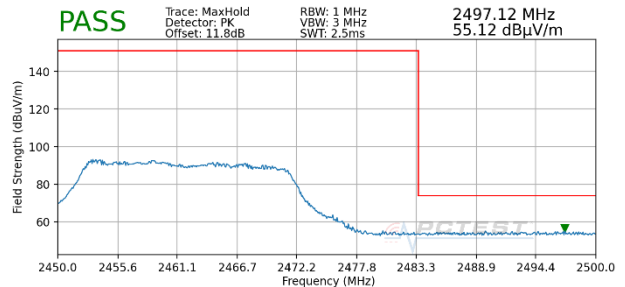


Plot 7-94. Radiated Restricted Lower Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-95. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Average – 242 Tones)



Plot 7-96. Radiated Restricted Upper Band Edge Measurement SISO ANT2 (Peak – 242 Tones)

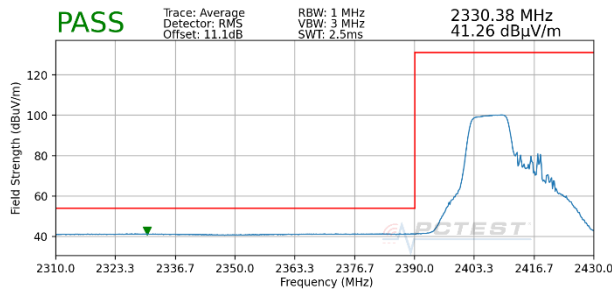
FCC ID: PY7-57441Y	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.7.6 MIMO Radiated Restricted Band Edge Measurements

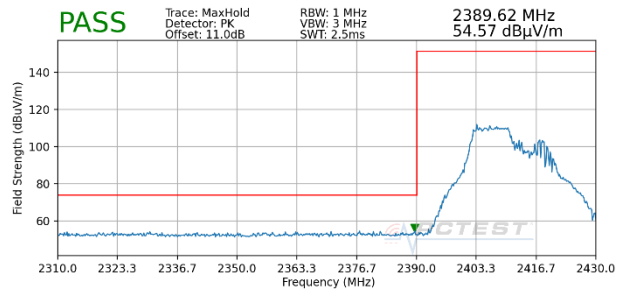
§15.205 §15.209; RSS-Gen [8.9]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2412MHz
Channel:	1

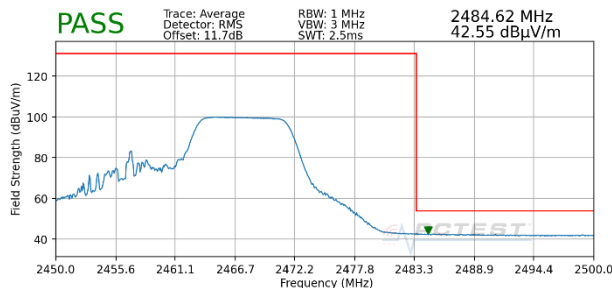


Plot 7-97. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 106 Tones)

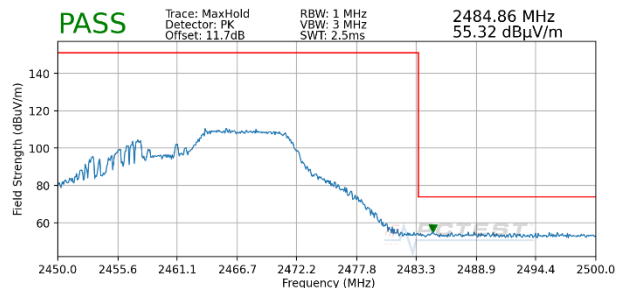


Plot 7-98. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 106 Tones)

Worst Case Mode:	802.11ax OFDMA
Worst Case Transfer Rate:	MCS0
RU Index:	53
Distance of Measurements:	3 Meters
Operating Frequency:	2462MHz
Channel:	11



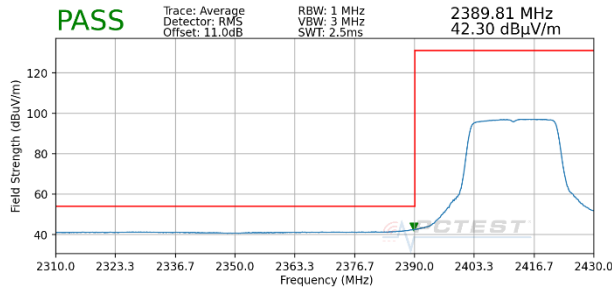
Plot 7-99. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 106 Tones)



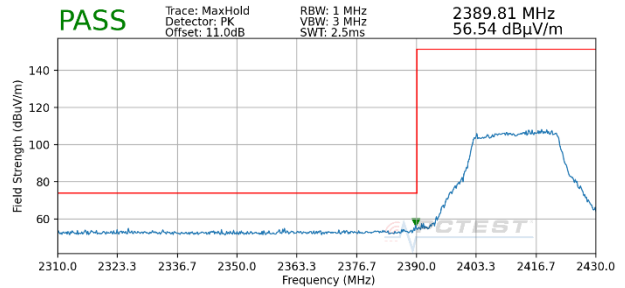
Plot 7-100. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 106 Tones)

FCC ID: PY7-57441Y		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

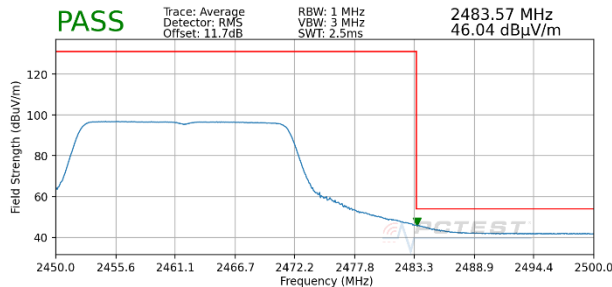


Plot 7-101. Radiated Restricted Lower Band Edge Measurement MIMO (Average – 242 Tones)

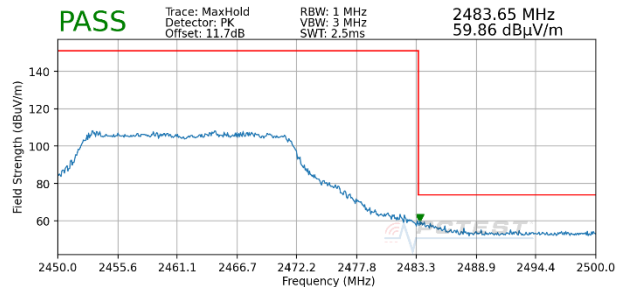


Plot 7-102. Radiated Restricted Lower Band Edge Measurement MIMO (Peak – 242 Tones)

Worst Case Mode: 802.11ax OFDMA
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-103. Radiated Restricted Upper Band Edge Measurement MIMO (Average – 242 Tones)



Plot 7-104. Radiated Restricted Upper Band Edge Measurement MIMO (Peak – 242 Tones)

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7.8 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 7-38 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/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 7-38. 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

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Test Setup

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

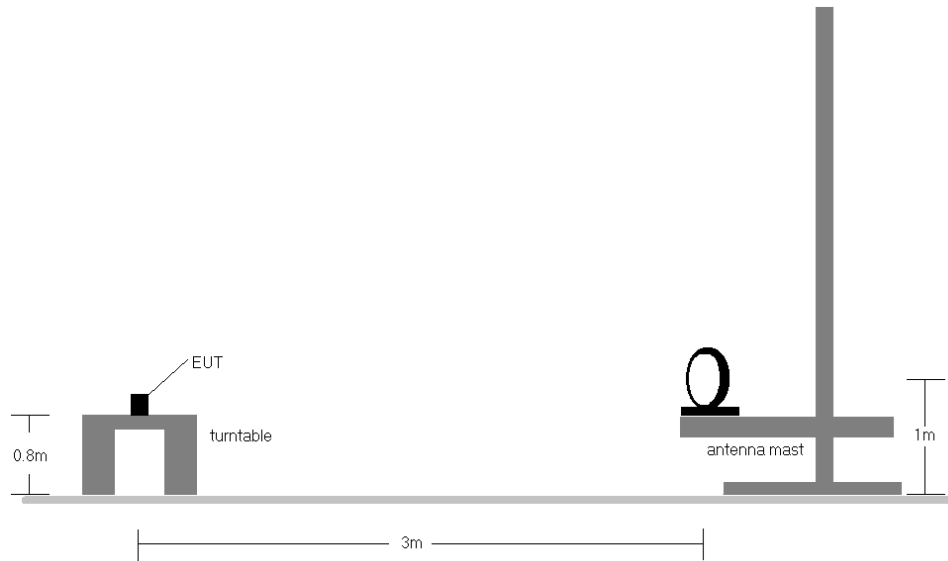


Figure 7-7. Radiated Test Setup < 30Mhz

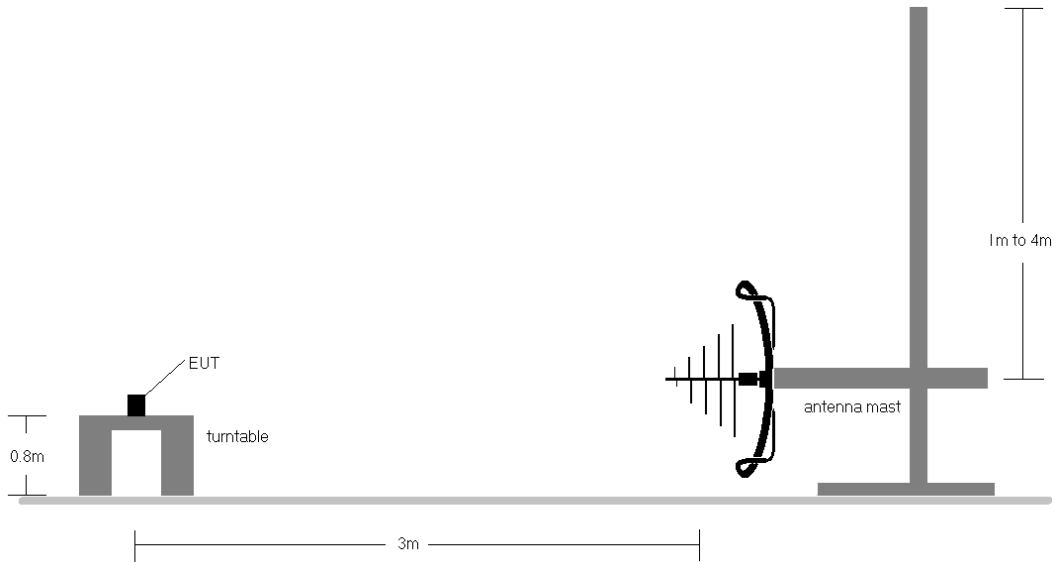


Figure 7-8. Radiated Test Setup < 1GHz

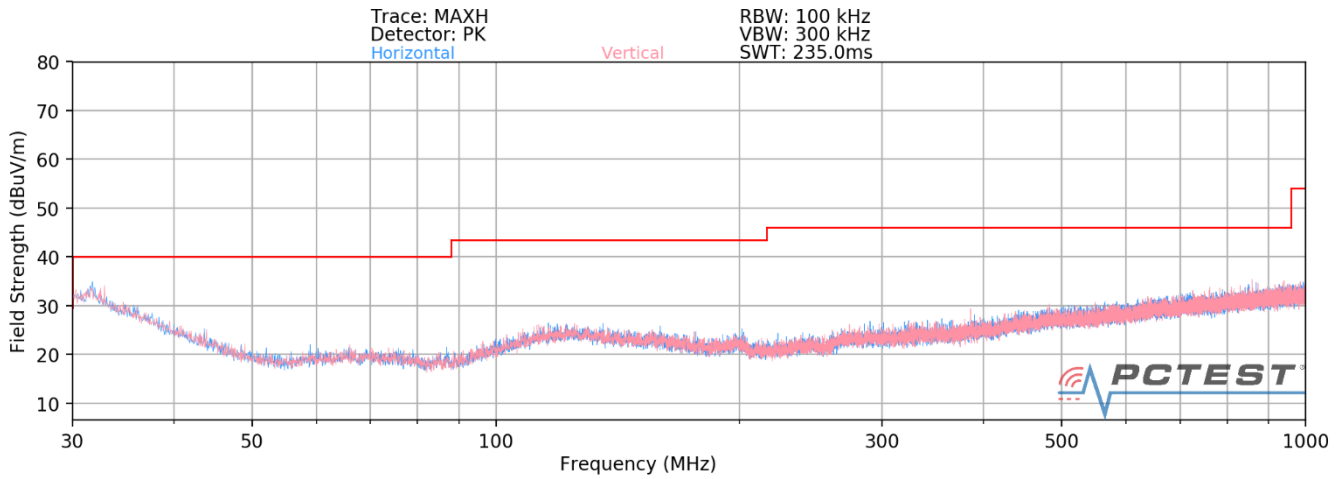
FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
Test Report S/N: 1M2007070106-09-R2.PY7	Test Dates: 7/29 - 9/26/2020	EUT Type: Portable Handset		Page 92 of 95

Test Notes

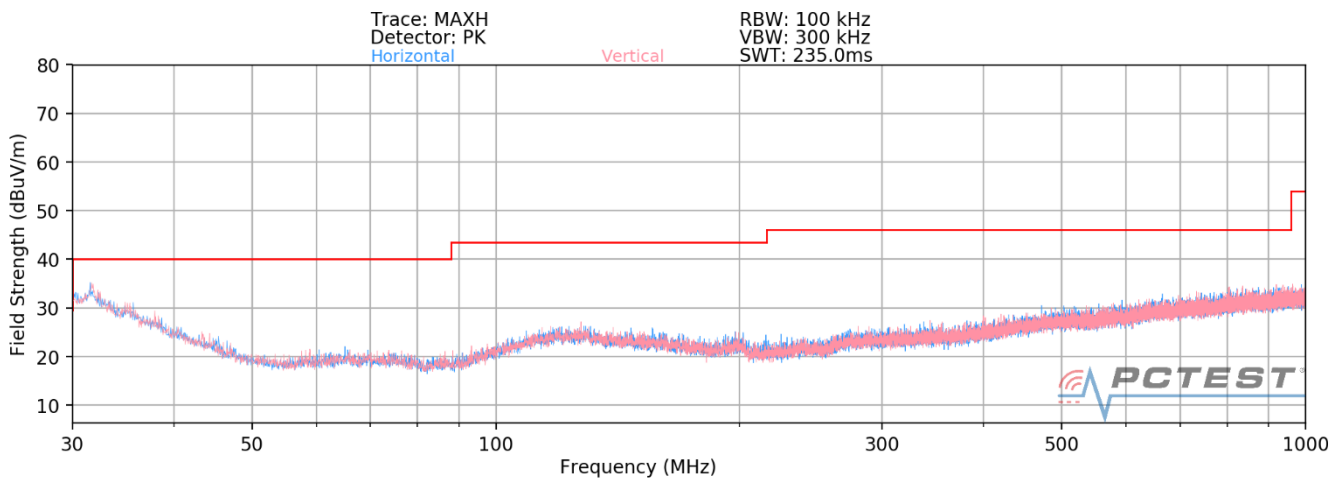
1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-38.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit 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.

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



Plot 7-105. Radiated Spurious Plot below 1GHz (106 Tones)



Plot 7-106. Radiated Spurious Plot below 1GHz (242 Tones)

FCC ID: PY7-57441Y	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SONY	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **SONY Portable Handset FCC ID: PY7-57441Y** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules.

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