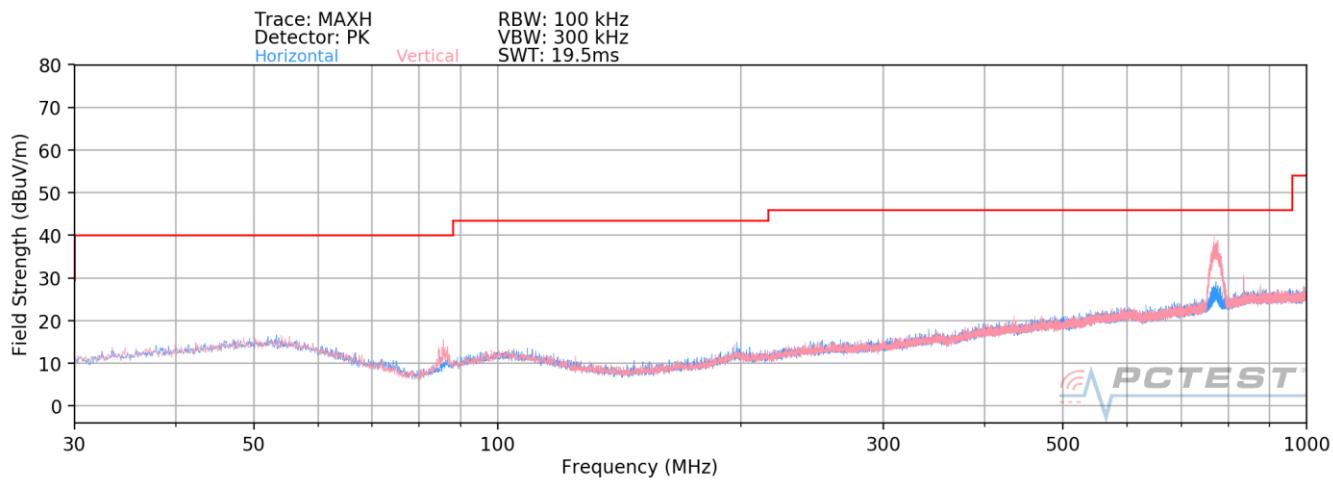


7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements

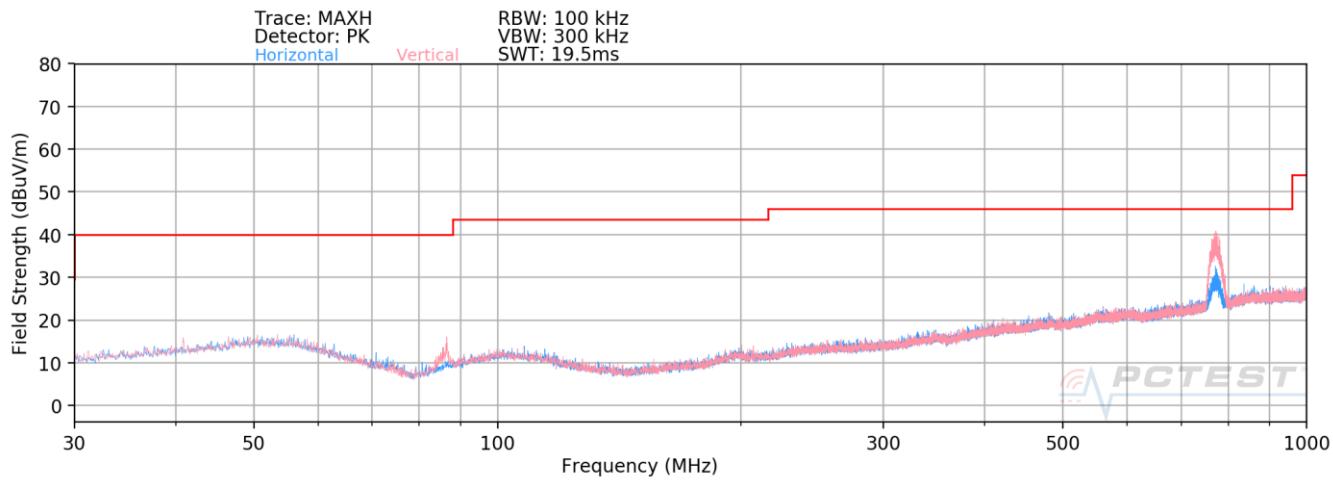
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	South	North
Channel	1	120
Operating Frequency (MHz)	2412	5600
Data Rate (Mbps)	1	6
Mode	b	a

Table 7-71. Simultaneous Transmission Config-1

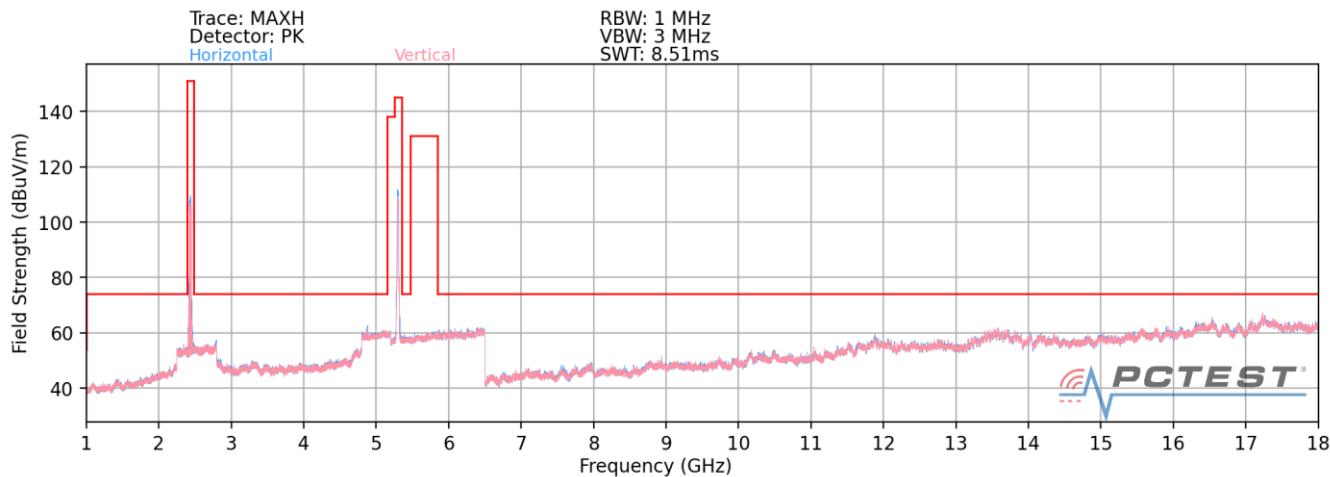


Plot 7-457. Radiated Spurious Plot 30MHz - 1GHz Closed

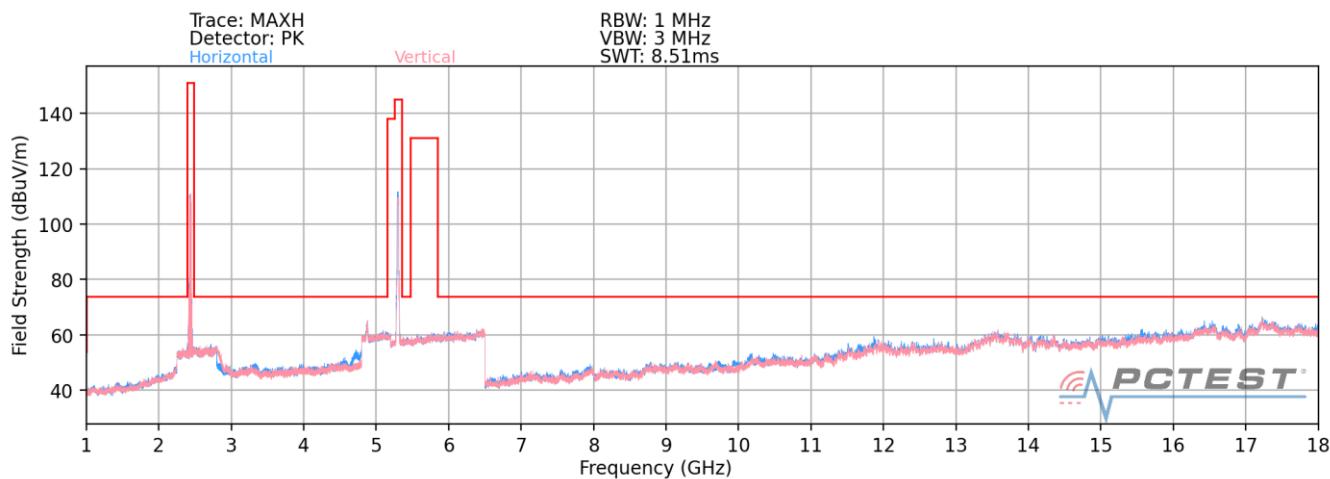


Plot 7-458. Radiated Spurious Plot 30MHz - 1GHz 300°

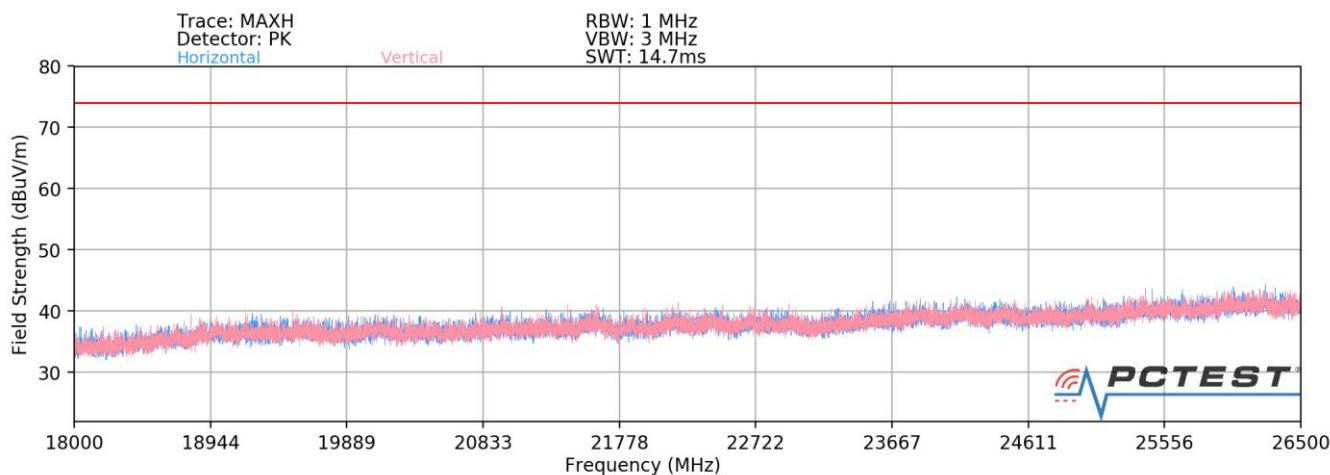
FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 284 of 336



Plot 7-459. Radiated Spurious Plot 1GHz – 18GHz Closed

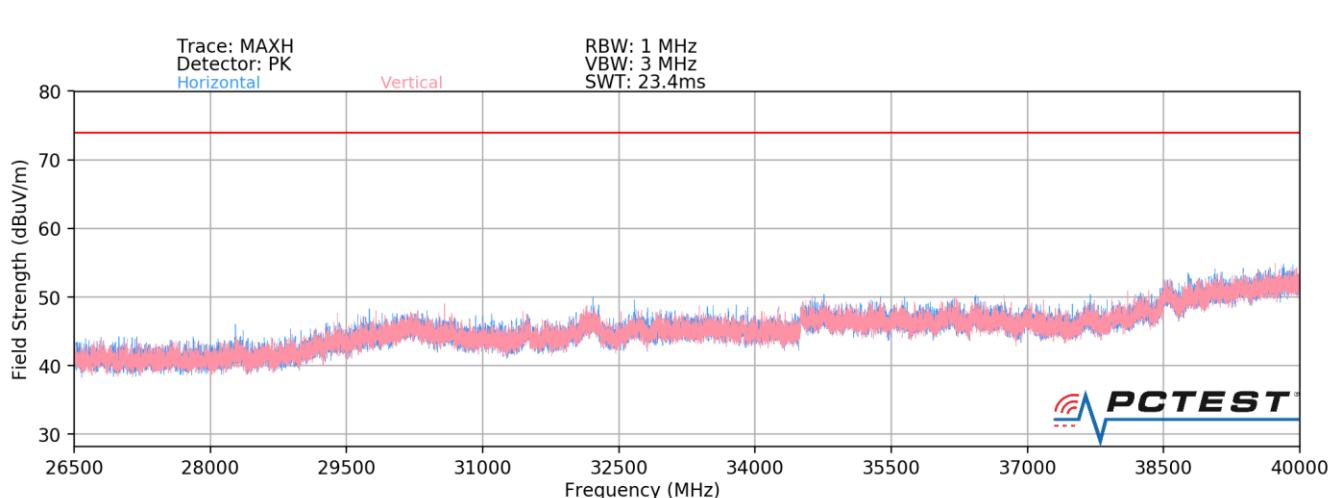
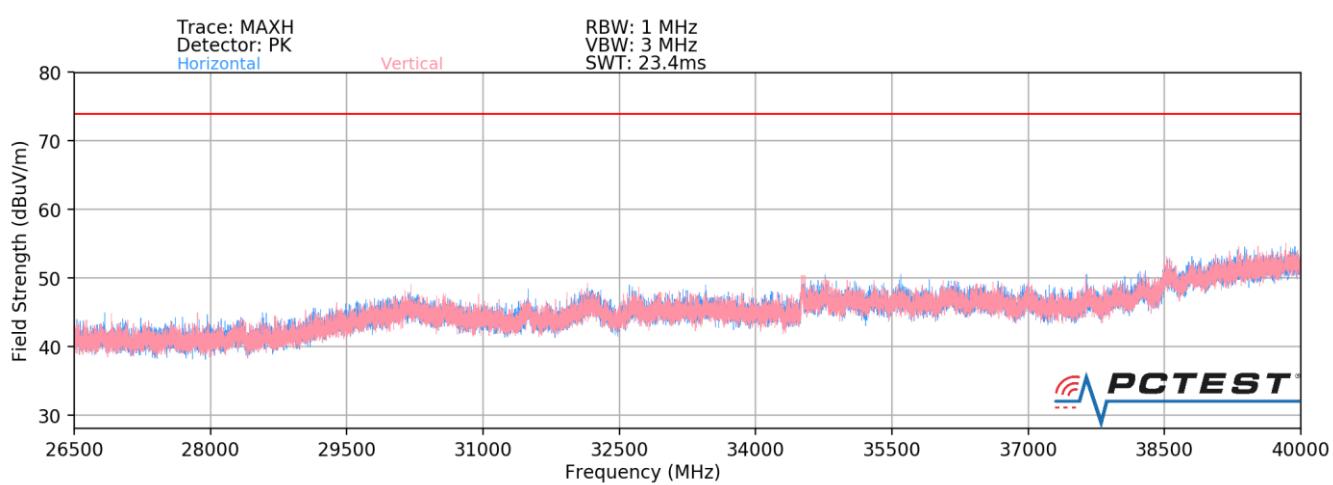
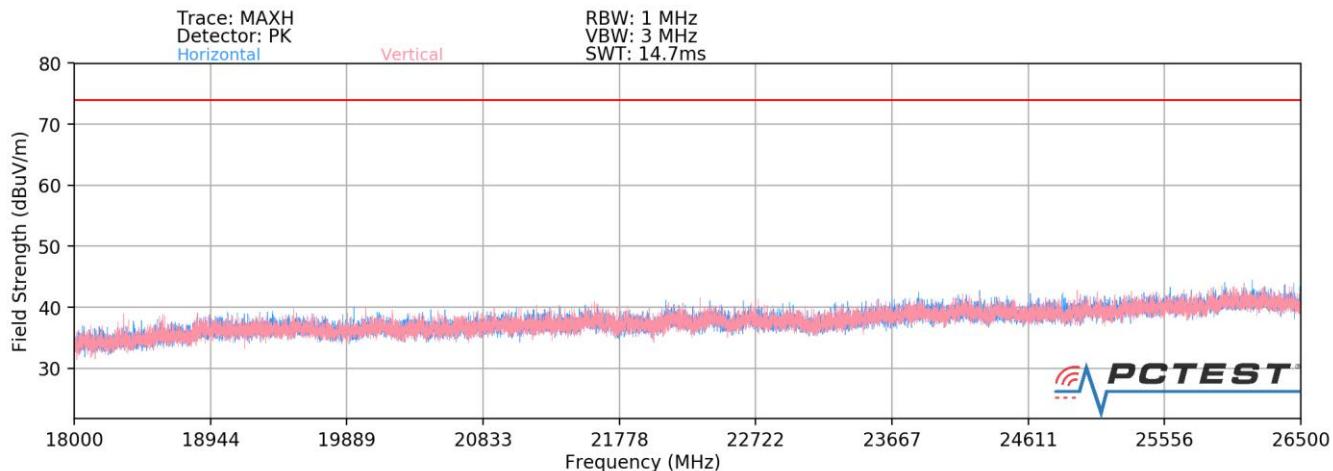


Plot 7-460. Radiated Spurious Plot 1GHz – 18GHz 300°



Plot 7-461. Radiated Spurious Plot 18GHz – 26.5GHz Closed

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 285 of 336



FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 286 of 336

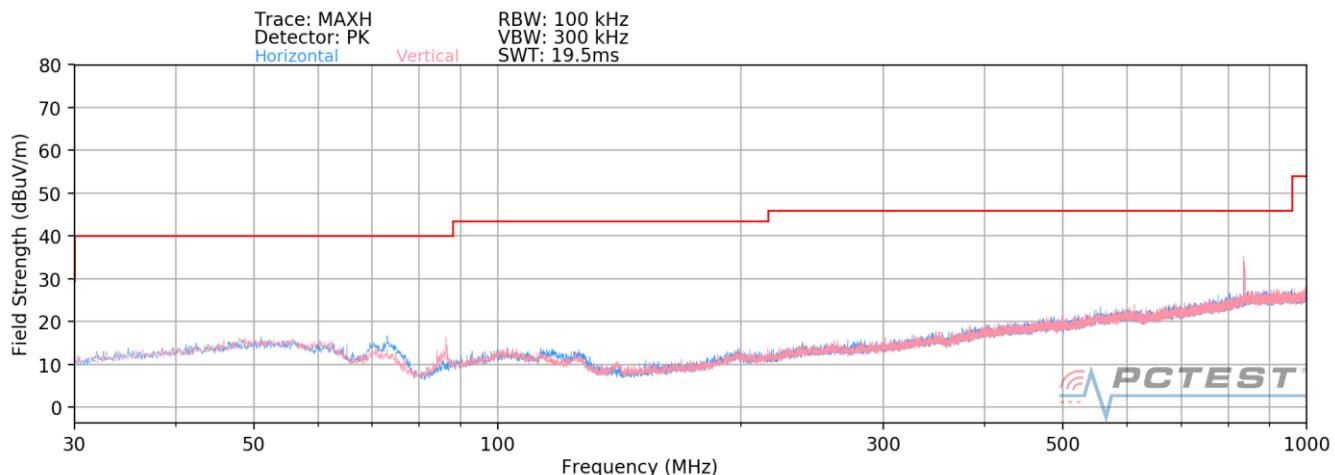
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
776.00	Peak	V	-	-	-75.89	-4.67	26.44	68.20	-41.76
3964.00	Average	V	-	-	-80.49	9.02	35.53	73.98	-38.45
3964.00	Peak	V	-	-	-69.28	9.02	46.74	53.98	-7.24
7152.00	Peak	V	-	-	-71.07	15.36	51.29	68.20	-16.91
8788.00	Peak	V	-	-	-72.71	19.04	53.33	68.20	-14.87
10340.00	Peak	V	-	-	-72.56	21.04	55.48	68.20	-12.72
11976.00	Average	V	-	-	-83.27	25.04	48.77	53.98	-5.21
11976.00	Peak	V	-	-	-72.80	25.04	59.24	73.98	-14.74

Table 7-72. Radiated Measurements (SOUTH 2.4GHz – NORTH 5GHz)

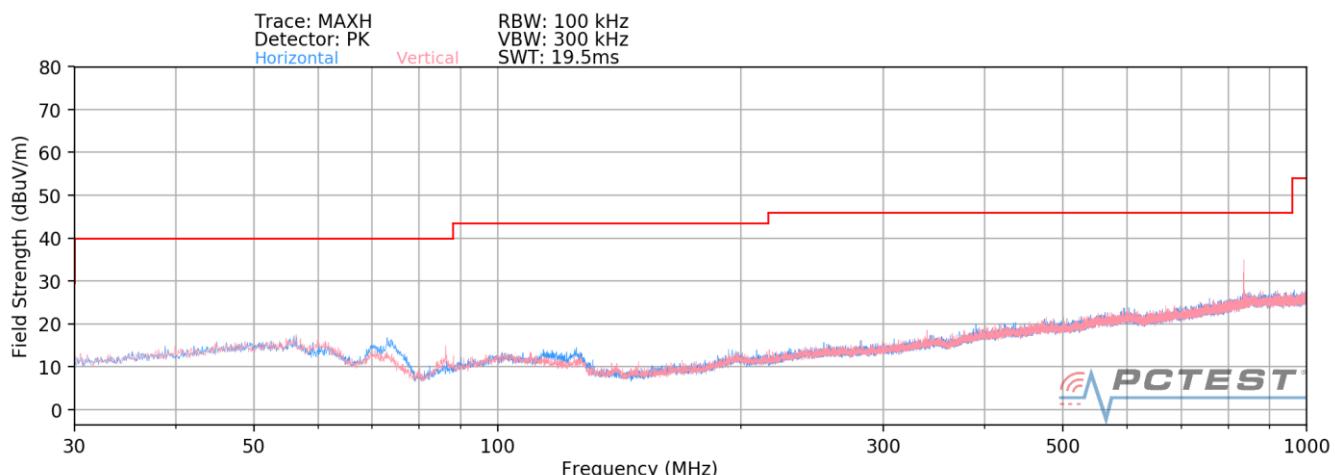
FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset			

Description	2.4 GHz Emission	5 GHz Emission
Antenna	North	South
Channel	1	120
Operating Frequency (MHz)	2412	5600
Data Rate (Mbps)	1	6
Mode	b	a

Table 7-73. Simultaneous Transmission Config-2

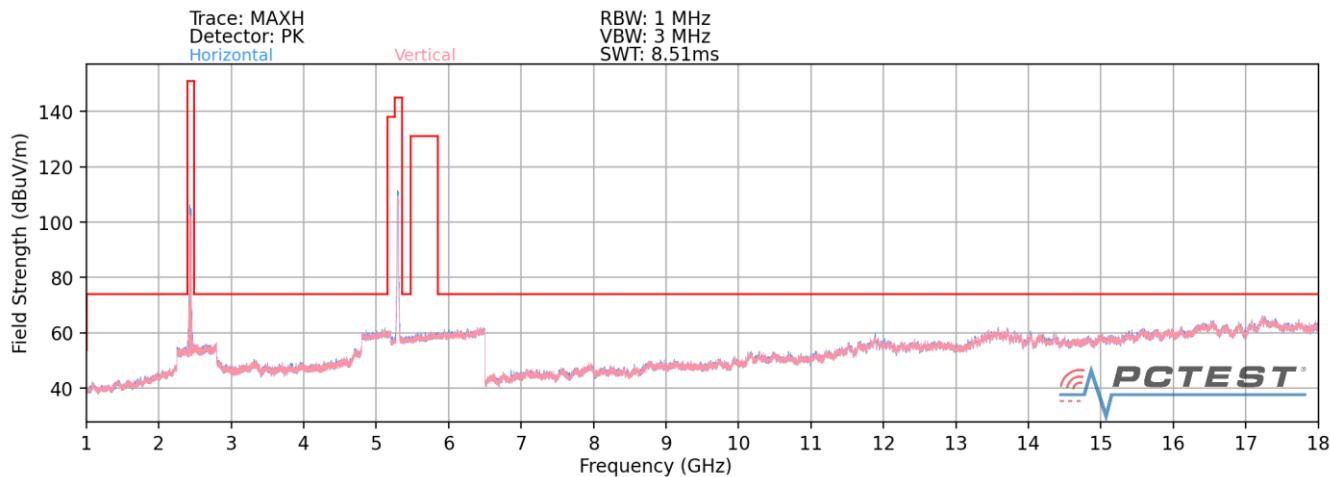


Plot 7-465. Radiated Spurious Plot 30MHz - 1GHz Closed

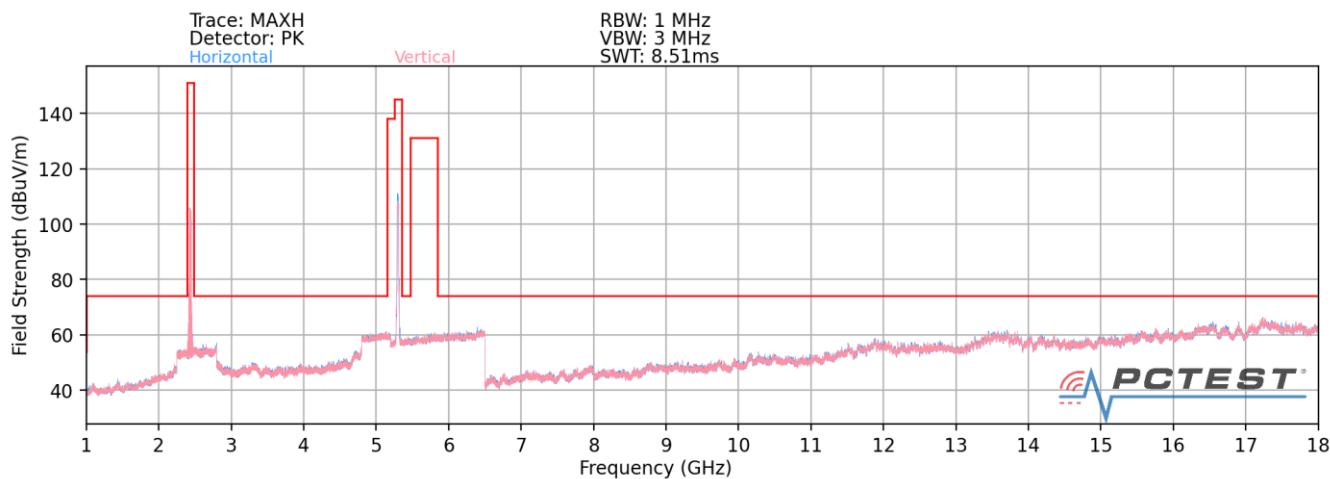


Plot 7-466. Radiated Spurious Plot 30MHz - 1GHz 300°

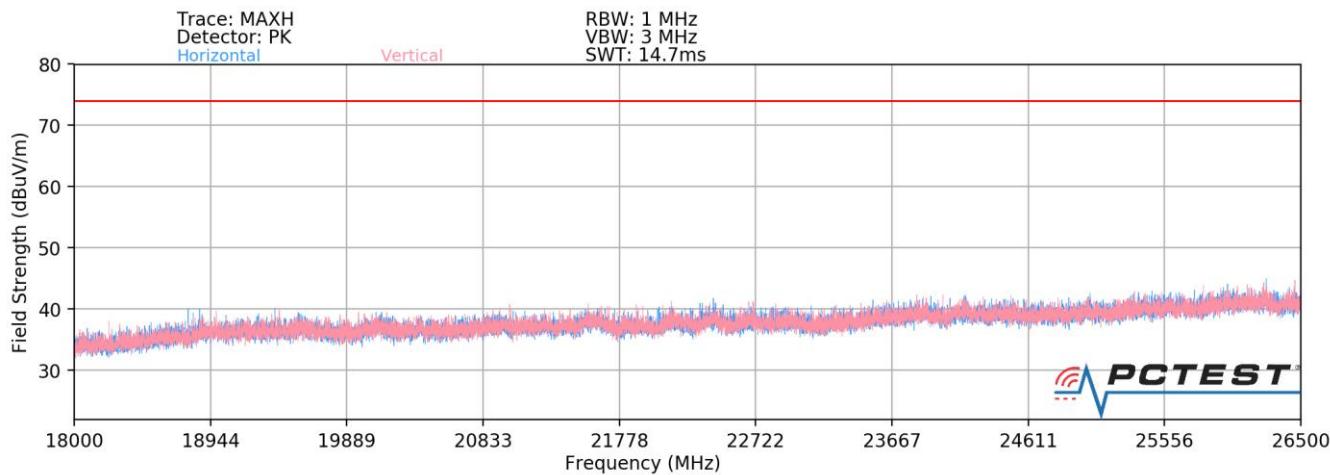
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 288 of 336



Plot 7-467. Radiated Spurious Plot 1GHz – 18GHz Closed

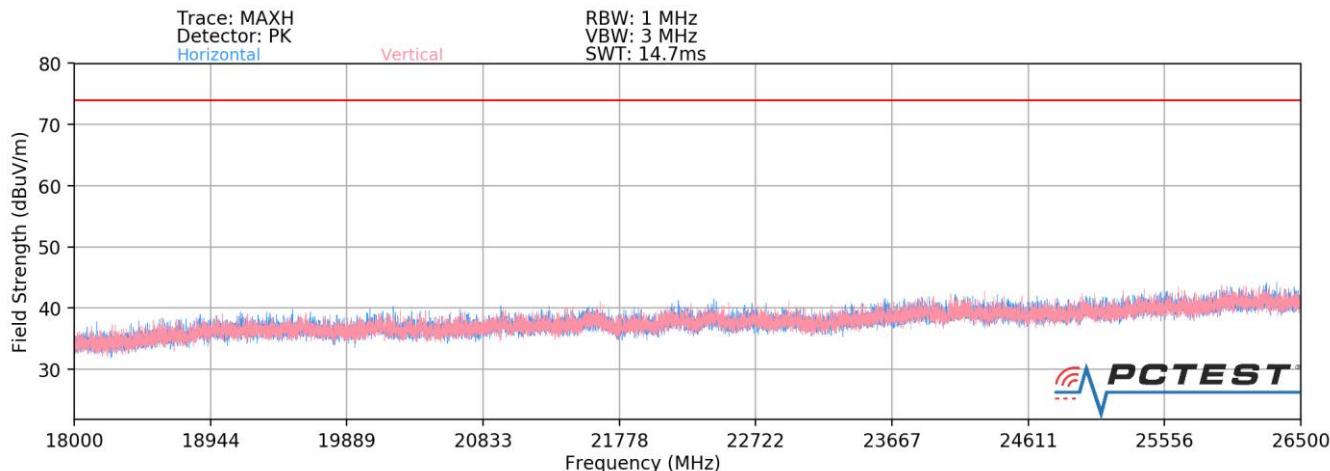


Plot 7-468. Radiated Spurious Plot 1GHz – 18GHz 300°

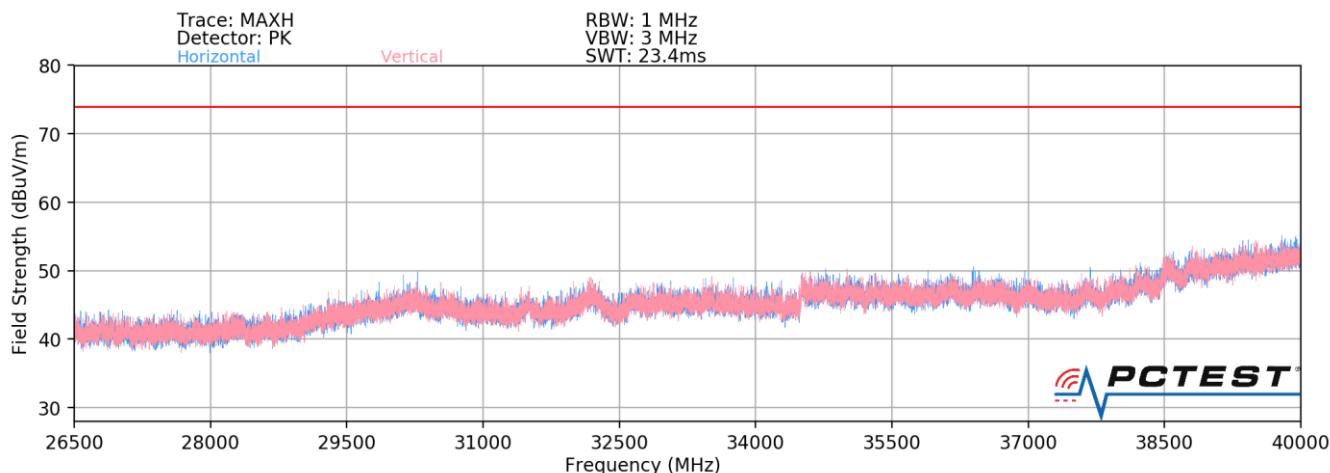


Plot 7-469. Radiated Spurious Plot 18GHz – 26.5GHz Closed

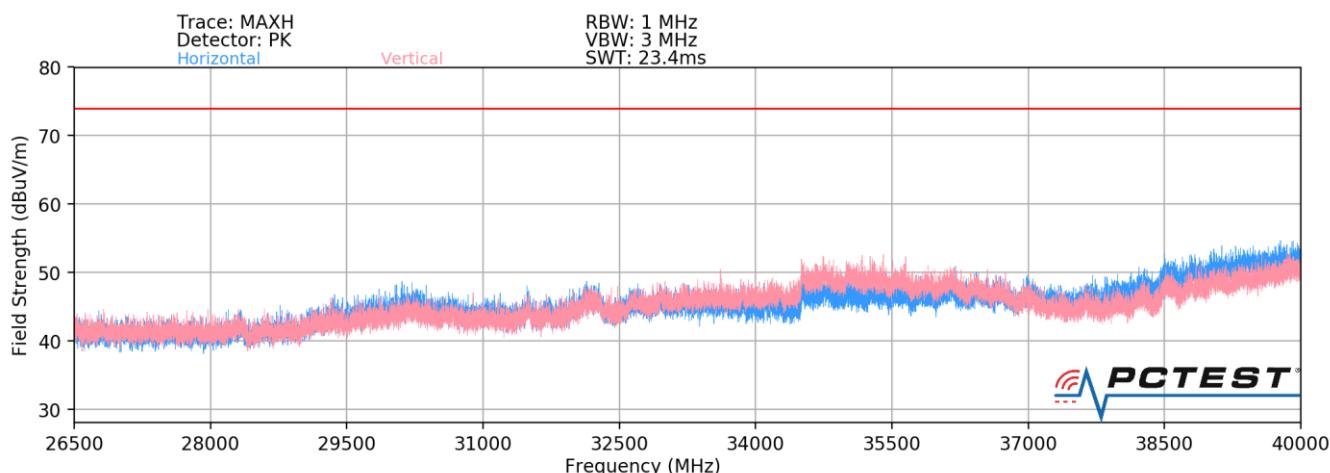
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 289 of 336



Plot 7-470. Radiated Spurious Plot 18GHz – 26.5GHz Open



Plot 7-471. Radiated Spurious Plot above 26.5GHz Closed



Plot 7-472. Radiated Spurious Plot above 26.5GHz Open

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 290 of 336

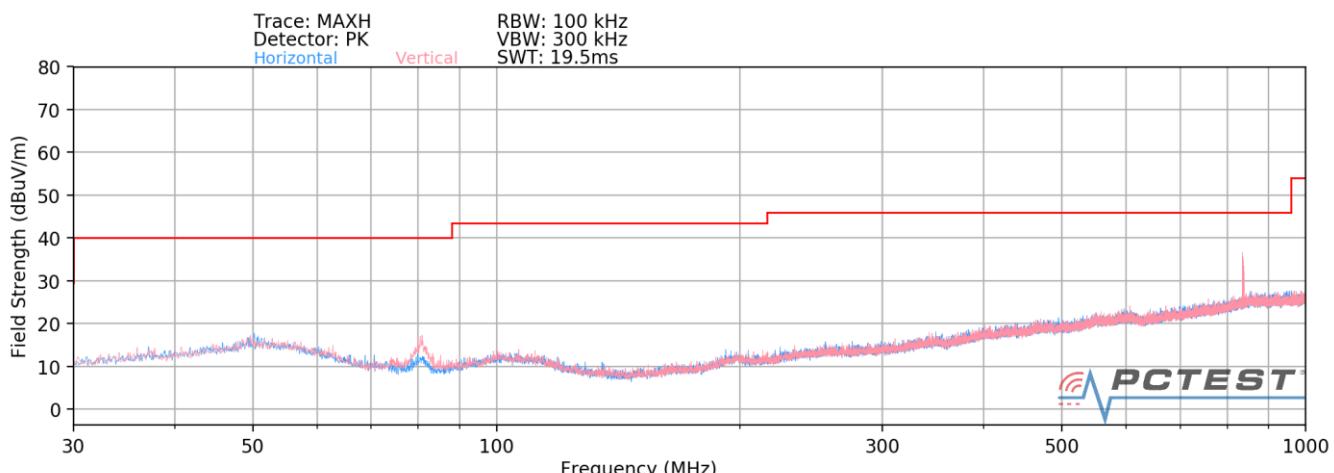
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
776.00	Peak	V	-	-	-75.27	-4.67	27.06	68.20	-41.14
3964.00	Average	V	-	-	-80.60	9.02	35.42	73.98	-38.56
3964.00	Peak	V	-	-	-69.16	9.02	46.86	53.98	-7.12
7152.00	Peak	V	-	-	-69.82	15.36	52.54	68.20	-15.66
8788.00	Peak	V	-	-	-72.27	19.04	53.77	68.20	-14.43
10340.00	Peak	V	-	-	-72.09	21.04	55.95	68.20	-12.25
11976.00	Average	V	-	-	-83.38	25.04	48.66	53.98	-5.32
11976.00	Peak	V	-	-	-71.96	25.04	60.08	73.98	-13.90

Table 7-74. Radiated Measurements (SOUTH 5GHz – NORTH 2.4GHz)

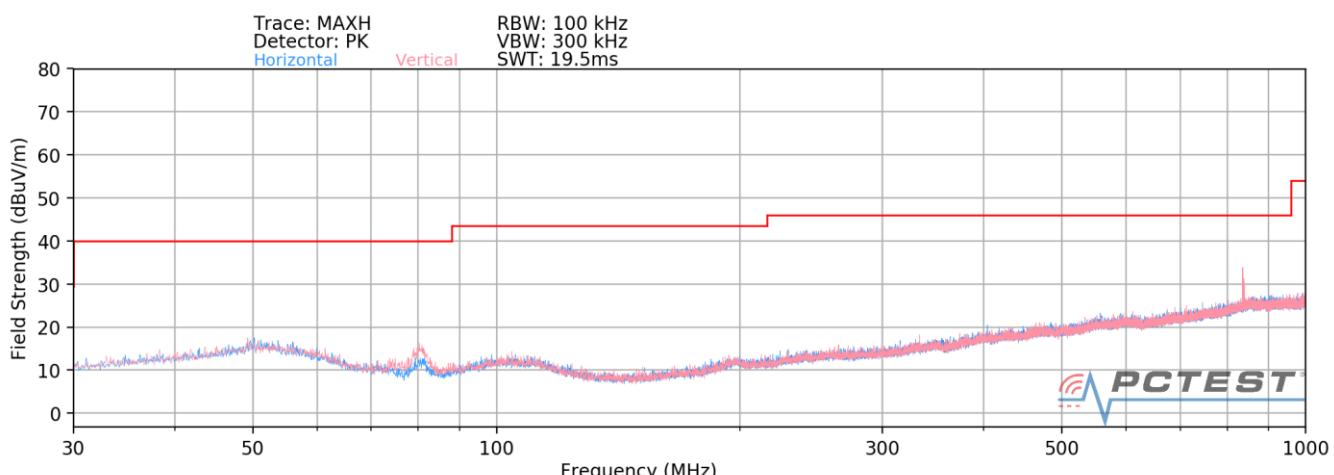
FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset			

Description	2.4 GHz Emission	5 GHz Emission
Antenna	North, South	North, South
Channel	6	120
Operating Frequency (MHz)	2437	5600
Data Rate (Mbps)	1	6
Mode	b	a

Table 7-75. Simultaneous Transmission Config-3

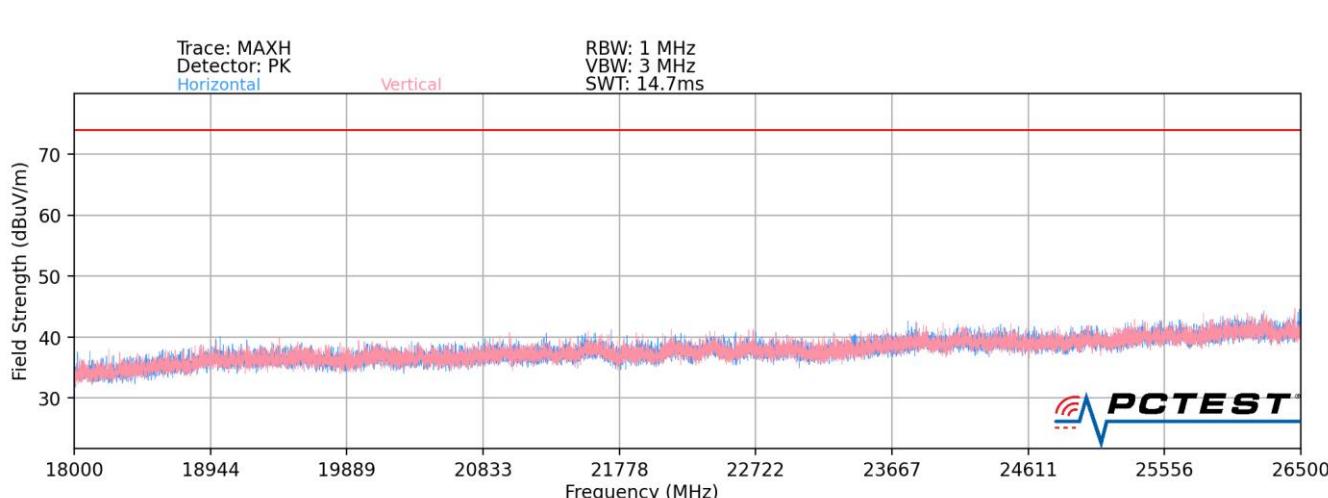
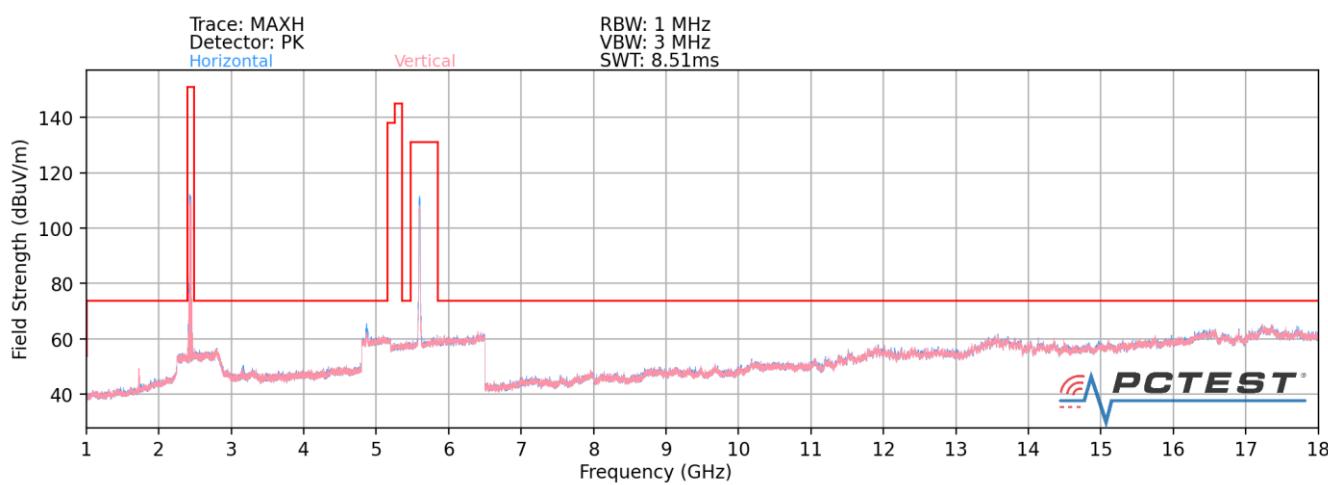
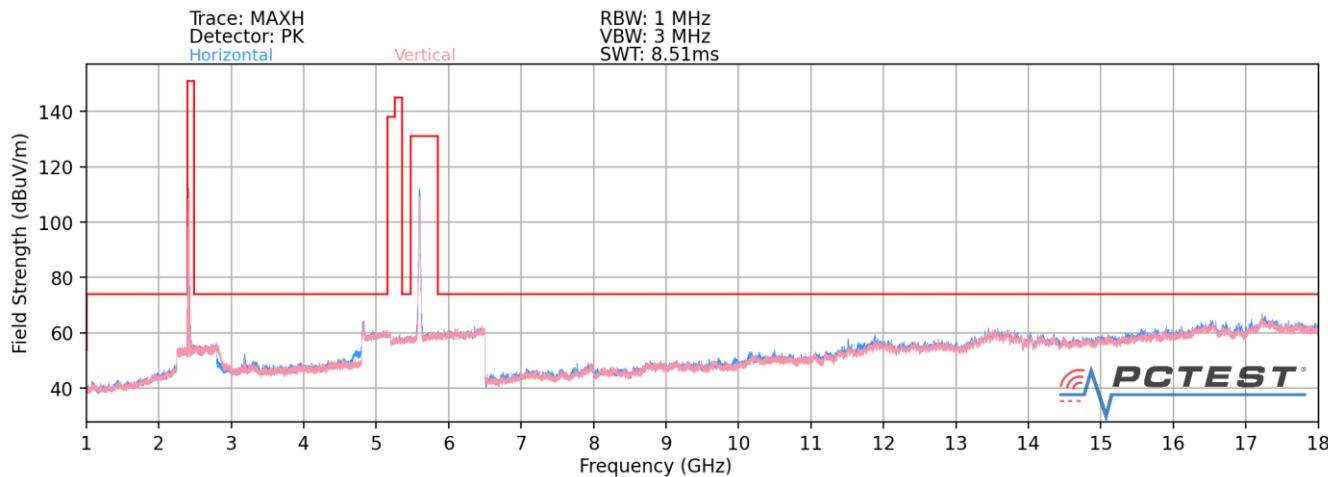


Plot 7-473. Radiated Spurious Plot 30MHz - 1GHz Closed



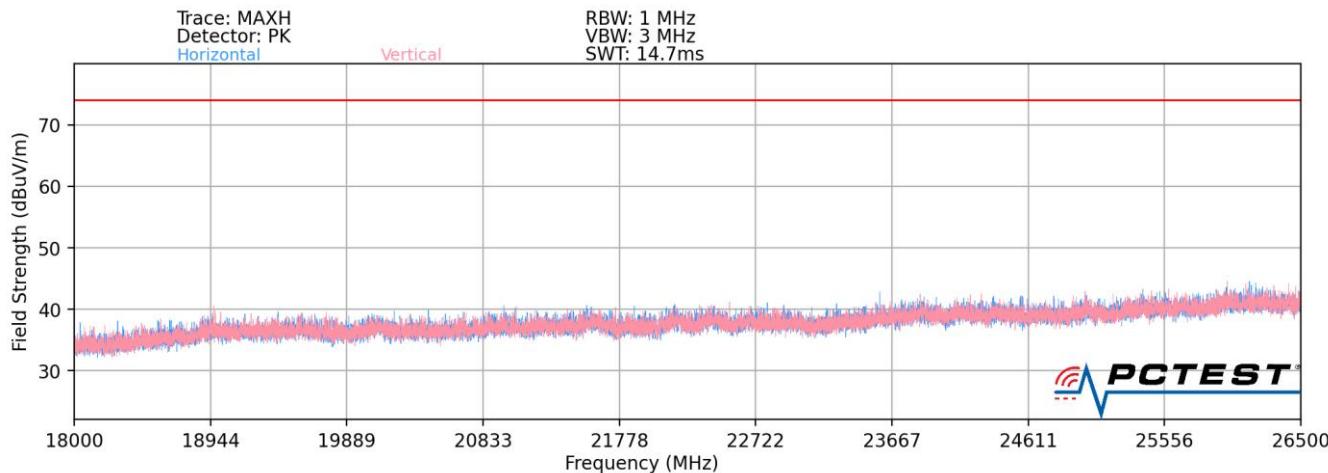
Plot 7-474. Radiated Spurious Plot 30MHz - 1GHz 300°

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 292 of 336

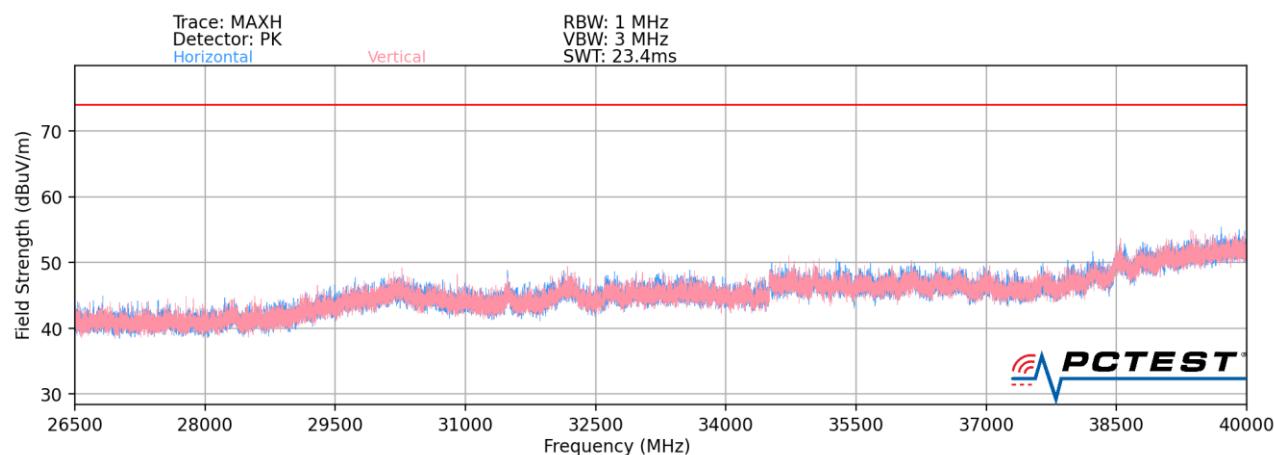


Plot 7-477. Radiated Spurious Plot 18GHz – 26.5GHz Closed

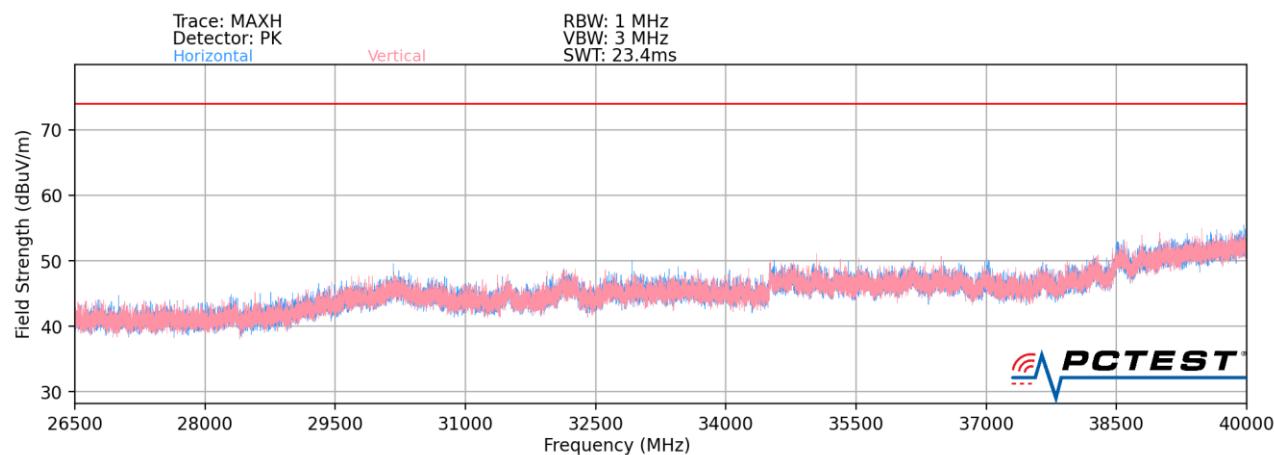
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 293 of 336



Plot 7-478. Radiated Spurious Plot 18GHz – 26.5GHz Open



Plot 7-479. Radiated Spurious Plot above 26.5GHz Closed



Plot 7-480. Radiated Spurious Plot above 26.5GHz Open

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of  Element	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 294 of 336

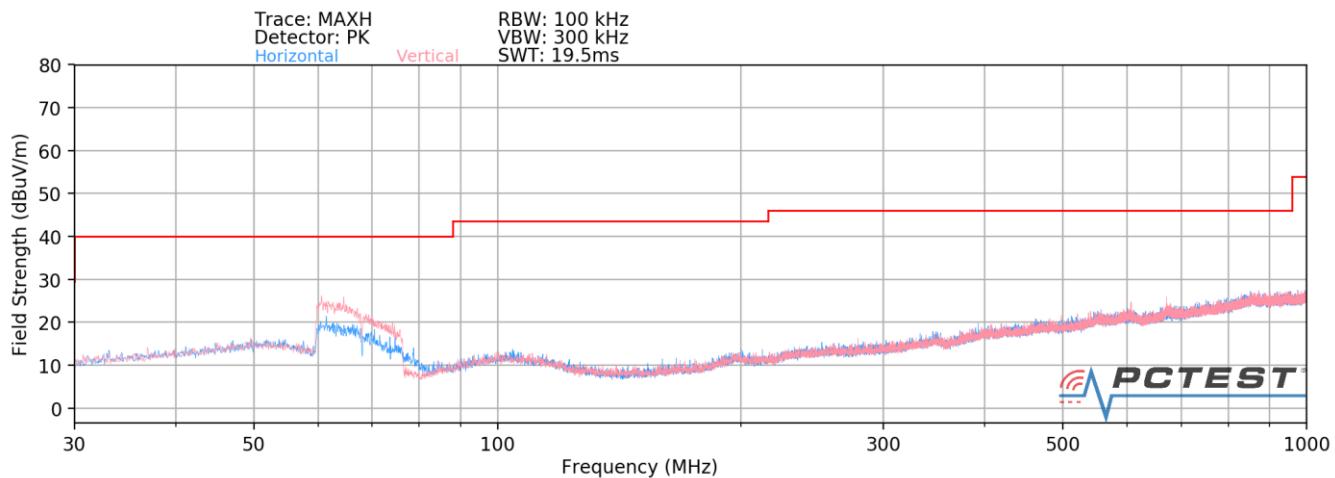
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
726.00	Peak	V	173	295	-63.70	-5.30	38.00	68.20	-30.20
3889.00	Average	V	-	-	-80.06	8.11	35.05	73.98	-38.93
3889.00	Peak	V	-	-	-68.76	8.11	46.35	53.98	-7.63
7052.00	Peak	V	-	-	-70.48	15.07	51.59	68.20	-16.61
8763.00	Peak	V	-	-	-72.34	18.25	52.91	68.20	-15.29
10215.00	Peak	V	-	-	-71.80	20.54	55.74	68.20	-12.46
11926.00	Average	V	-	-	-83.35	26.41	50.06	53.98	-3.92
11926.00	Peak	V	-	-	-72.23	26.41	61.18	73.98	-12.80

Table 7-76. Radiated Measurements (MIMO 2.4GHz – MIMO 5GHz)

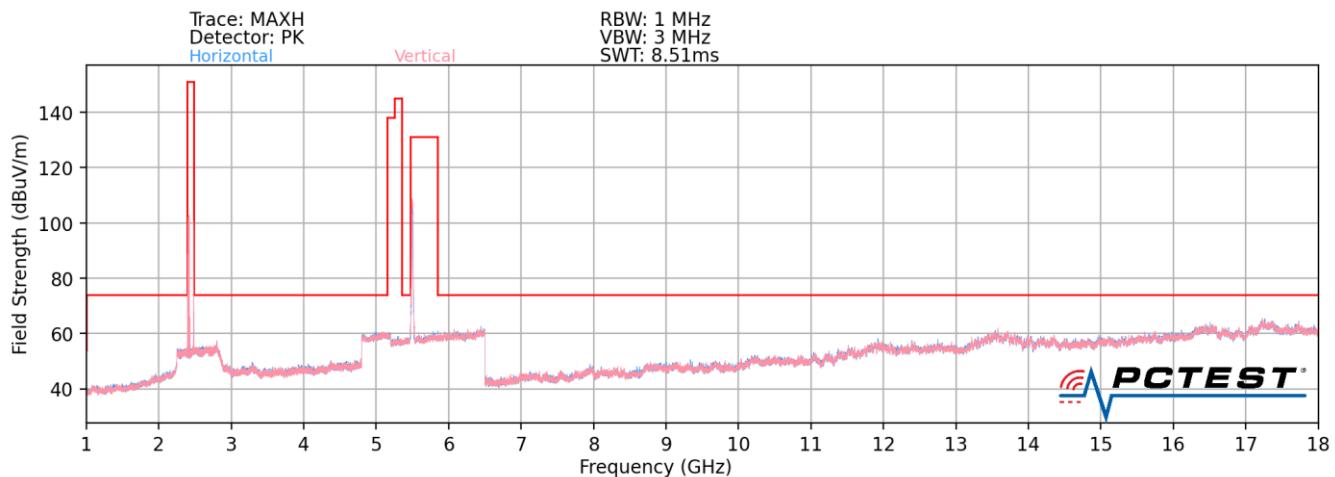
FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset			

Description	BT transmission	2.4 GHz Emission	5 GHz Emission
Antenna	South	North	North, South
Channel	78	1	100
Operating Frequency (MHz)	2480	2412	5500
Data Rate (Mbps)	1	1	6
Mode	GFSK	g	a

Table 7-77. Simultaneous Transmission Config-4

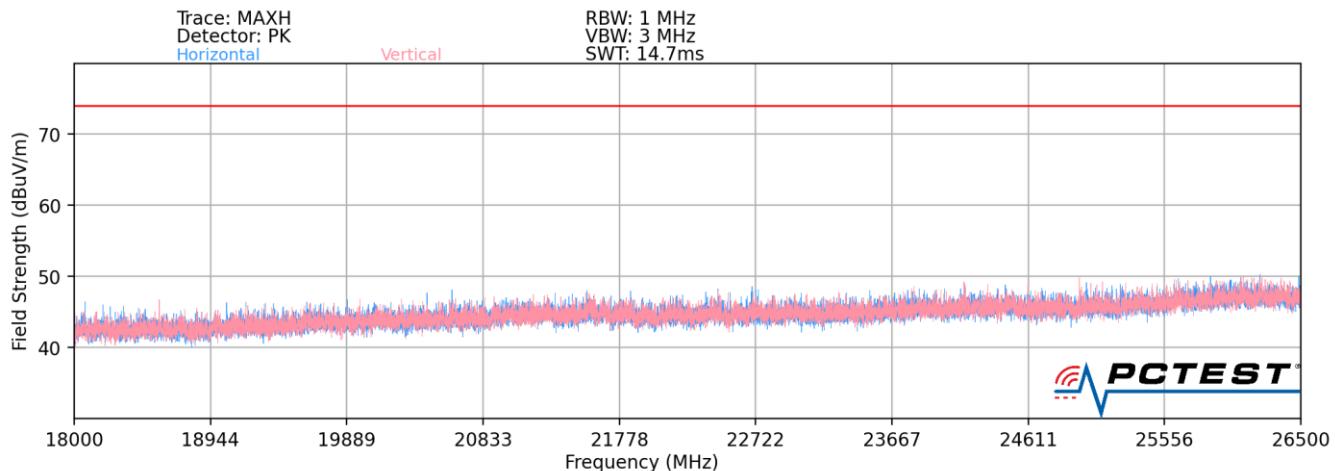


Plot 7-481. Radiated Spurious Plot 30MHz - 1GHz 300°

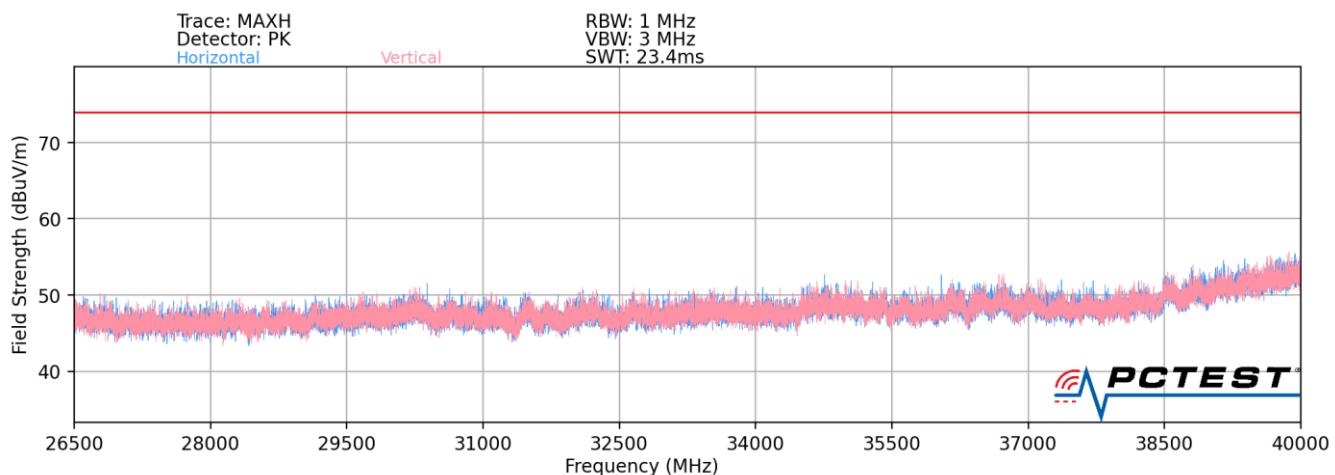


Plot 7-482. Radiated Spurious Plot 1GHz – 18GHz 300°

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 296 of 336



Plot 7-483. Radiated Spurious Plot 18GHz – 26.5GHz 300°



Plot 7-484. Radiated Spurious Plot above 26.5GHz 300°

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 297 of 336

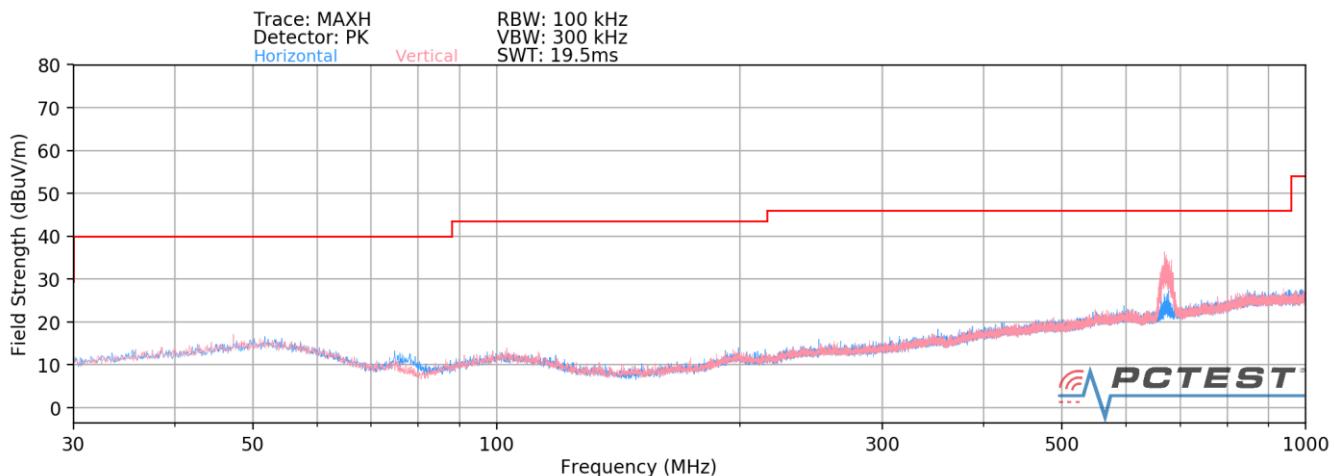
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
62.00	Peak	V	-	-	-97.65	15.74	25.09	68.20	-43.11
676.00	Peak	V	-	-	-81.77	21.47	46.70	68.20	-21.50
3764.00	Average	V	-	-	-80.53	7.66	34.13	53.98	-19.85
3764.00	Peak	V	-	-	-68.08	7.66	46.58	73.98	-27.40
8384.00	Average	V	-	-	-83.68	17.98	41.30	53.98	-12.68
8384.00	Peak	V	-	-	-72.33	17.98	52.65	73.98	-21.33
8452.00	Average	V	-	-	-83.65	17.82	41.17	53.98	-12.81
8452.00	Peak	V	-	-	-72.20	17.82	52.62	73.98	-21.36
8588.00	Average	V	-	-	-83.84	17.82	40.98	53.98	-13.00
8588.00	Peak	V	-	-	-72.19	17.82	52.63	73.98	-21.35
11744.00	Average	V	-	-	-83.93	24.84	47.91	53.98	-6.07
11744.00	Peak	V	-	-	-72.64	24.84	59.20	73.98	-14.78

Table 7-78. Radiated Measurements (SOUTH BT – NORTH 2.4GHz – MIMO 5GHz)

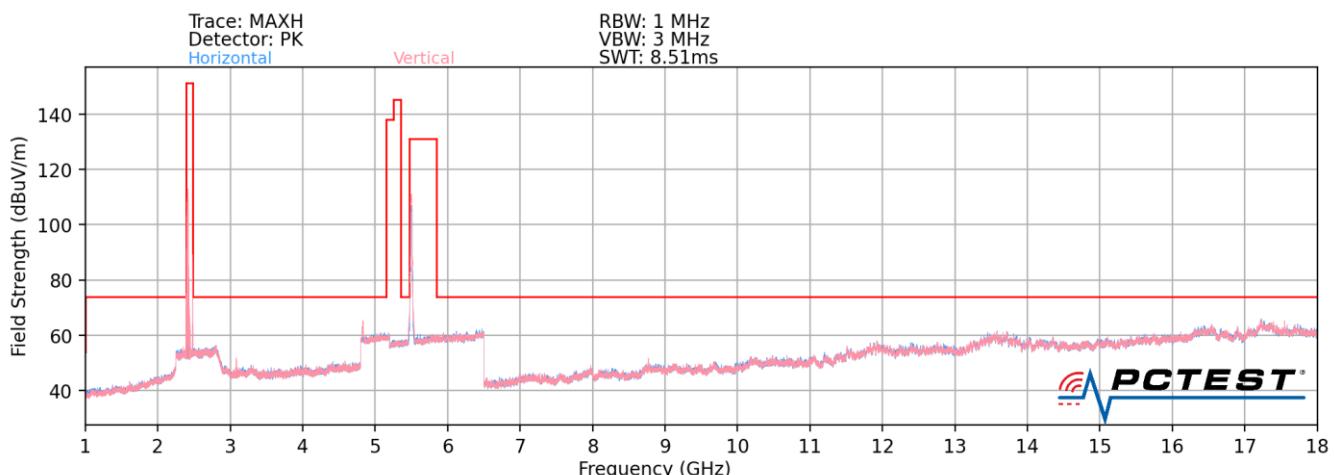
FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset			

Description	BT transmission	2.4 GHz Emission	5 GHz Emission
Antenna	North	South	North, South
Channel	78	1	100
Operating Frequency (MHz)	2480	2412	5500
Data Rate (Mbps)	1	1	6
Mode	GFSK	g	a

Table 7-79. Simultaneous Transmission Config-5

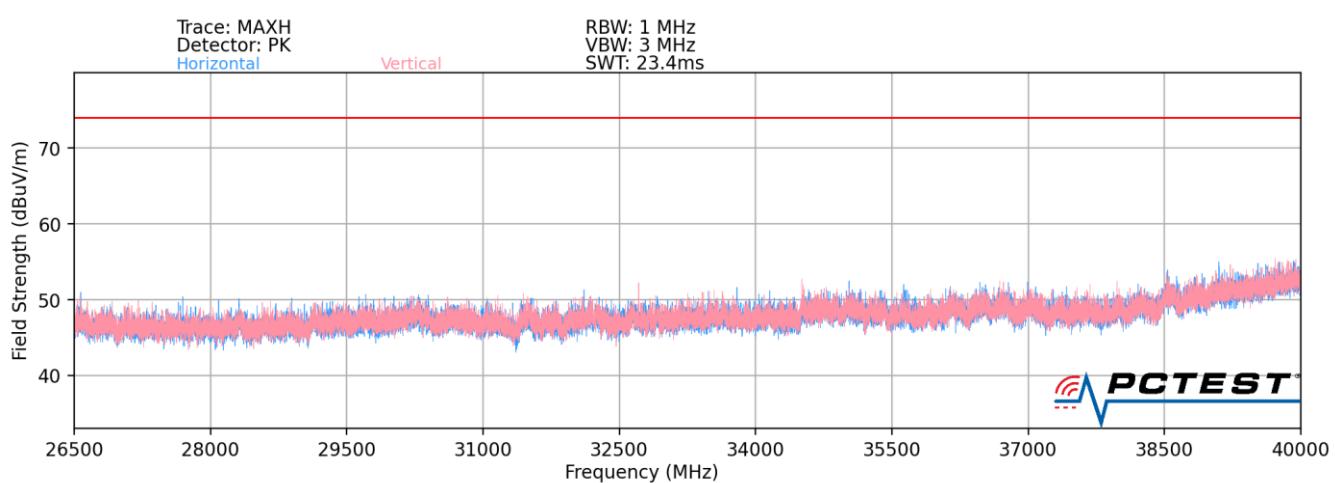
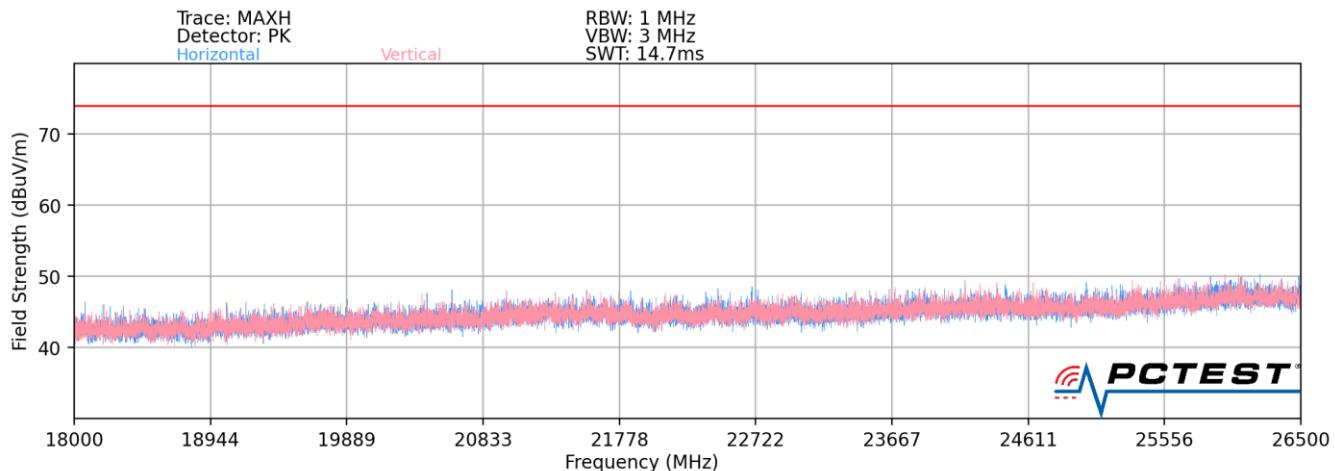


Plot 7-485. Radiated Spurious Plot 30MHz - 1GHz 300°



Plot 7-486. Radiated Spurious Plot 1GHz – 18GHz

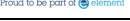
FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 299 of 336



FCC ID: C3K1995 IC: 3048A-1995	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 300 of 336

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]
676.00	Peak	V	150	9	-66.07	21.47	62.40	68.20	-5.80
3764.00	Average	V	-	-	-80.14	7.66	34.52	53.98	-19.46
3764.00	Peak	V	-	-	-69.14	7.66	45.52	73.98	-28.46
8384.00	Average	V	-	-	-83.56	17.98	41.42	53.98	-12.56
8384.00	Peak	V	-	-	-71.71	17.98	53.27	73.98	-20.71
8452.00	Average	V	-	-	-83.69	17.82	41.13	53.98	-12.85
8452.00	Peak	V	-	-	-72.36	17.82	52.46	73.98	-21.52
8588.00	Average	V	-	-	-83.77	18.36	41.59	53.98	-12.38
8588.00	Peak	V	-	-	-72.18	18.36	53.18	73.98	-20.79
11744.00	Average	V	-	-	-83.92	24.84	47.92	53.98	-6.06
11744.00	Peak	V	-	-	-72.38	24.84	59.46	73.98	-14.52

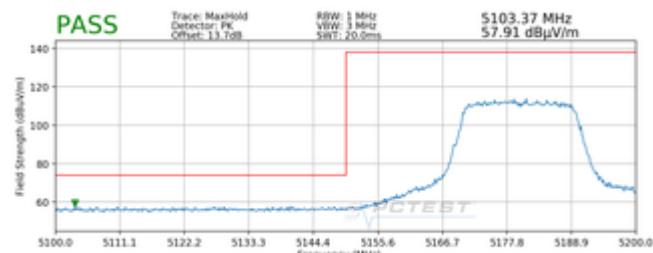
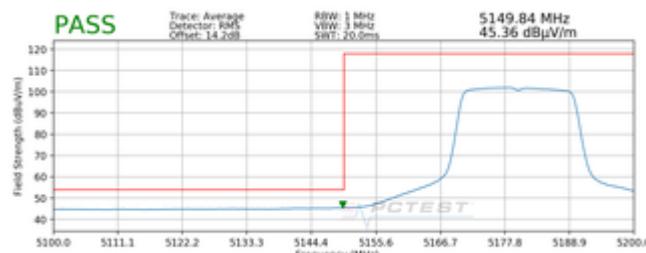
Table 7-80. Radiated Measurements (SOUTH 2.4GHz – NORTH BT – MIMO 5GHz)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of  MEASUREMENT REPORT (CERTIFICATION)			 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset			

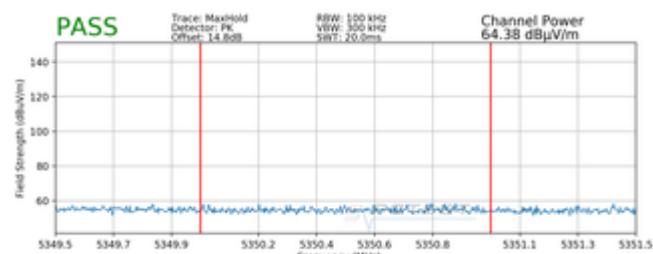
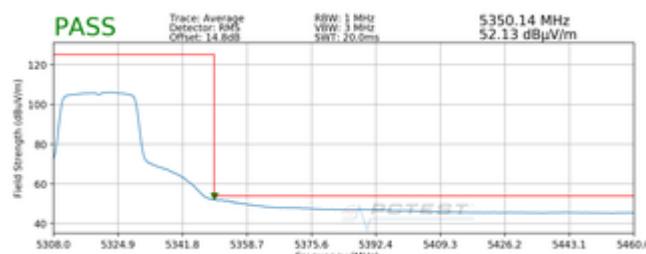
7.6.5 SISO SOUTH Radiated Band Edge Measurements (20MHz BW)

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

Worst Case Mode: 802.11ax SU
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5180MHz
Channel: 36

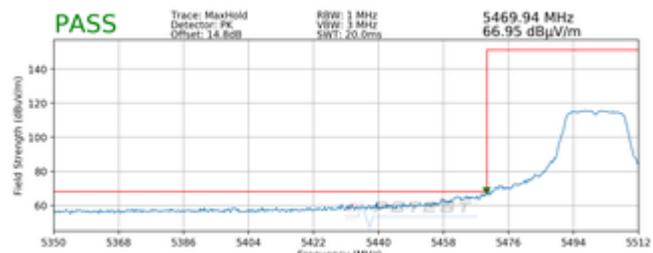
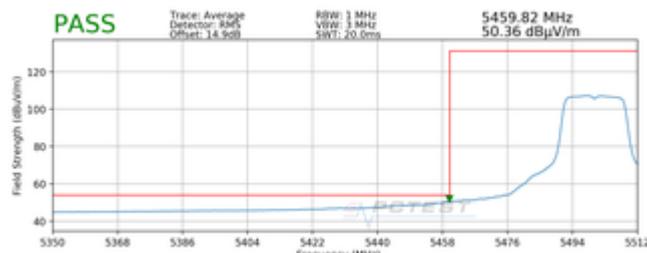


Worst Case Mode: 802.11ax SU
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5320MHz
Channel: 64

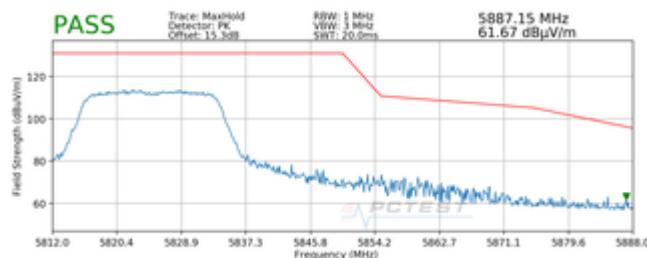


FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

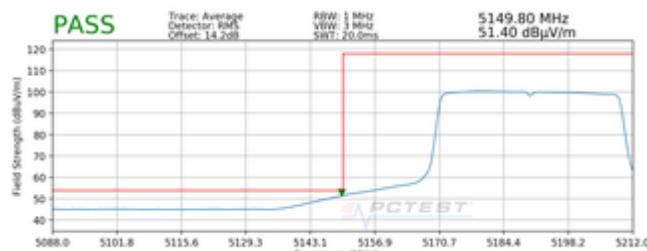


FCC ID: C3K1995 IC: 3048A-1995	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 303 of 336

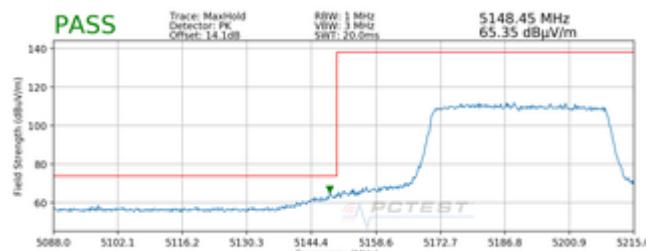
7.6.6 SISO SOUTH Radiated Band Edge Measurements (40MHz BW)

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

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

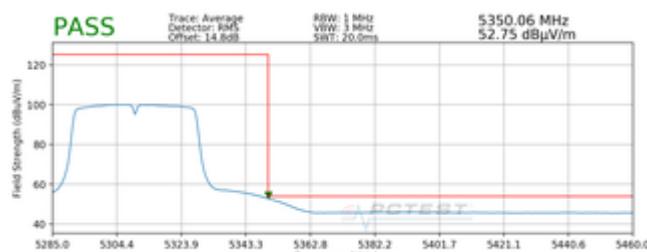


Plot 7-496. Radiated Lower Band Edge Plot SISO SOUTH (Average – UNII Band 1)

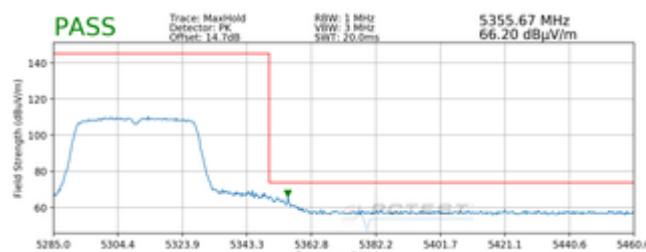


Plot 7-497. Radiated Lower Band Edge Plot SISO SOUTH (Peak – UNII Band 1)

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



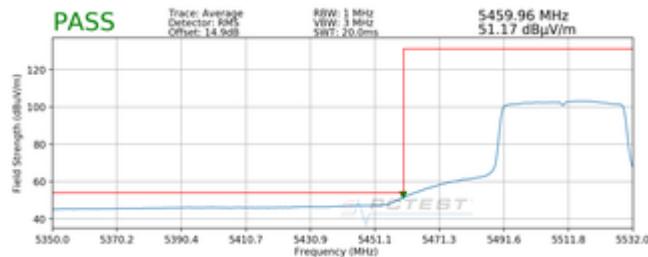
Plot 7-498. Radiated Upper Band Edge Plot SISO SOUTH (Average – UNII Band 2A)



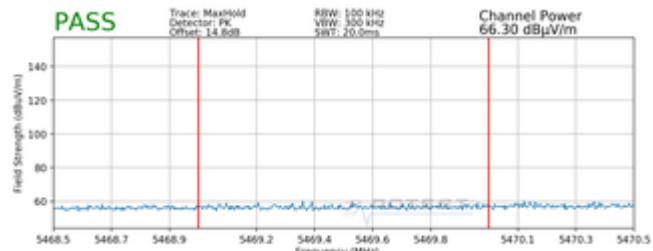
Plot 7-499. Radiated Upper Band Edge Plot SISO SOUTH (Peak – UNII Band 2A)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

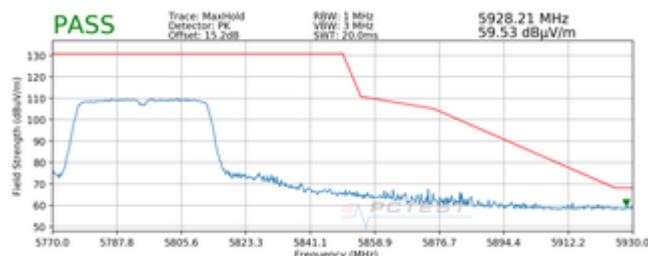


Plot 7-500. Radiated Lower Band Edge Plot SISO SOUTH (Average – UNII Band 2C)



Plot 7-501. Radiated Lower Band Edge Plot SISO SOUTH (Peak – UNII Band 2C)

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



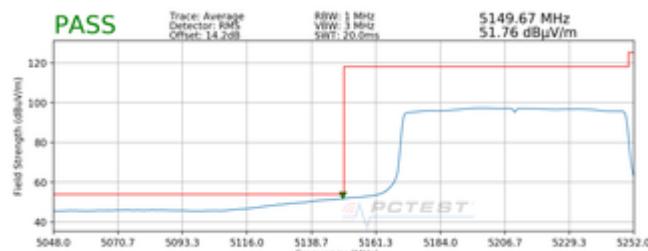
Plot 7-502. Radiated Upper Band Edge Plot SISO SOUTH (Peak – UNII Band 3)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
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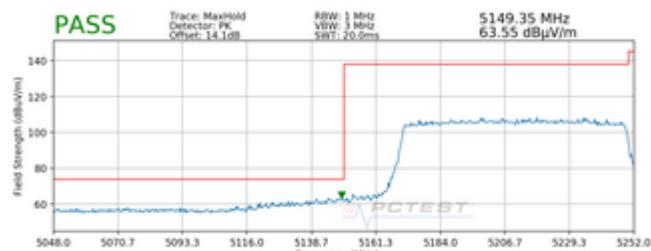
7.6.7 SISO SOUTH Radiated Band Edge Measurements (80MHz BW)

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

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

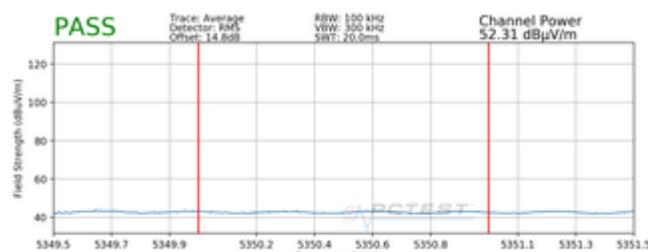


Plot 7-503. Radiated Lower Band Edge Plot SISO SOUTH (Average – UNII Band 1)

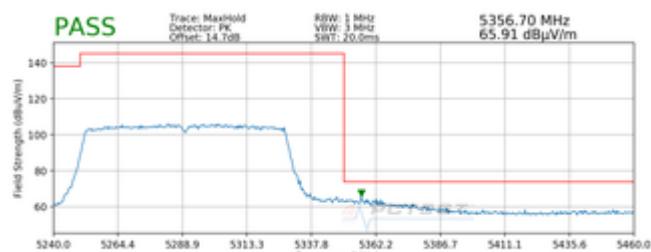


Plot 7-504. Radiated Lower Band Edge Plot SISO SOUTH (Peak – UNII Band 1)

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



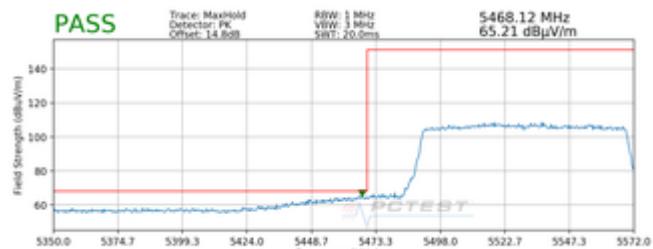
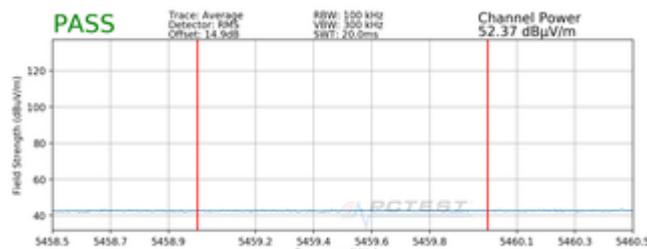
Plot 7-505. Radiated Upper Band Edge Plot SISO SOUTH (Average – UNII Band 2A)



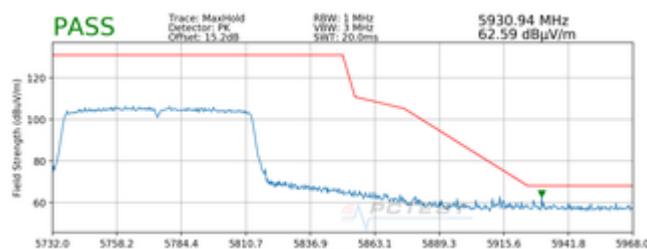
Plot 7-506. Radiated Upper Band Edge Plot SISO SOUTH (Peak – UNII Band 2A)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



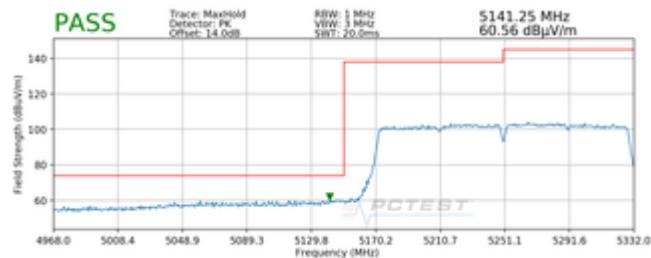
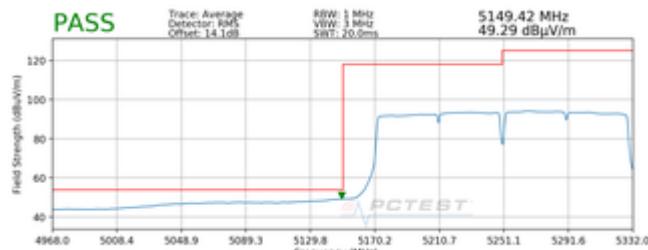
Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



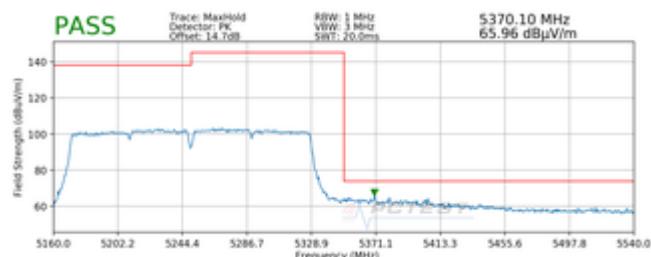
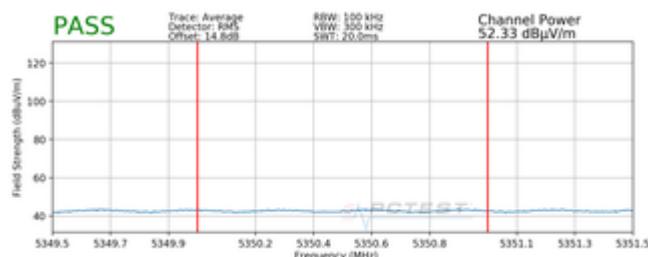
FCC ID: C3K1995 IC: 3048A-1995	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 307 of 336

7.6.8 SISO SOUTH Radiated Band Edge Measurements (160MHz 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: 5250MHz
 Channel: 50

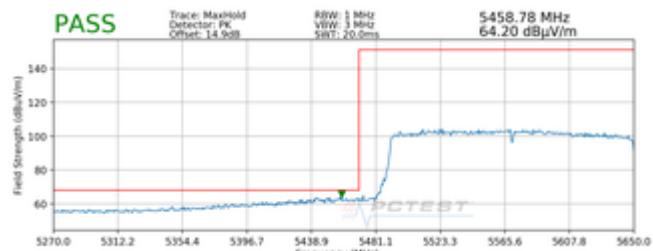
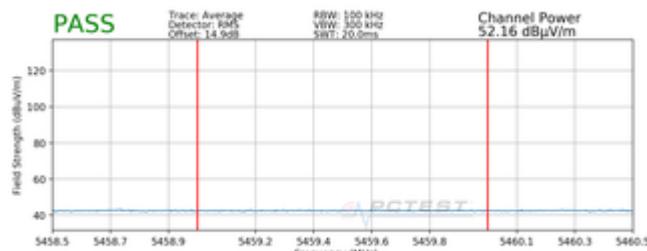


Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5250MHz
 Channel: 50



FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5570MHz
 Channel: 114

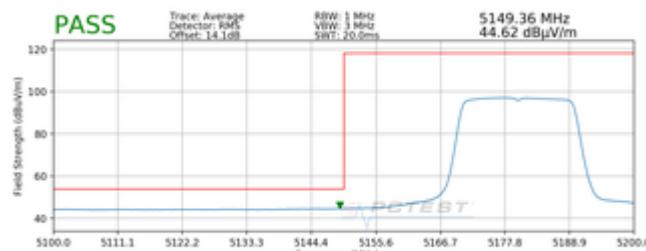


FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 309 of 336

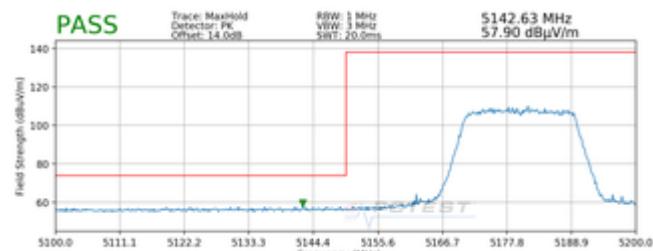
7.6.9 SISO NORTH Radiated Band Edge Measurements (20MHz BW)

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

Worst Case Mode: 802.11ax SU
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5180MHz
Channel: 36

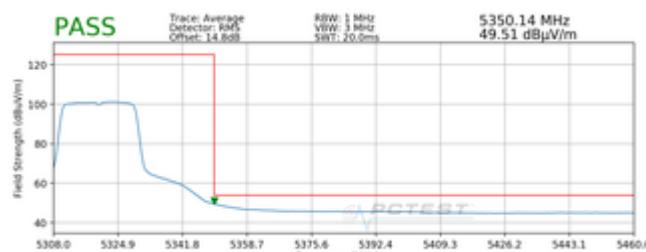


Plot 7-516. Radiated Lower Band Edge Plot SISO NORTH (Average – UNII Band 1)

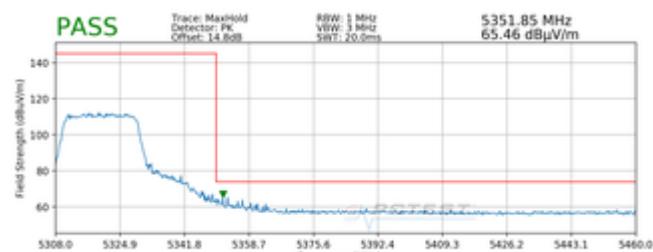


Plot 7-517. Radiated Lower Band Edge Plot SISO NORTH (Peak – UNII Band 1)

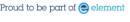
Worst Case Mode: 802.11ax SU
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5320MHz
Channel: 64



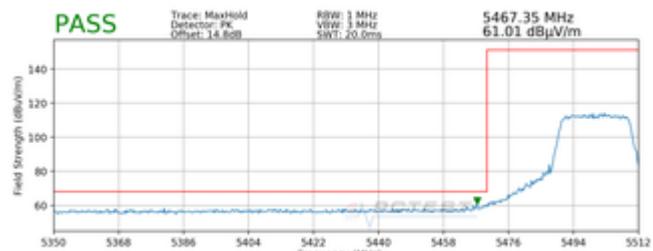
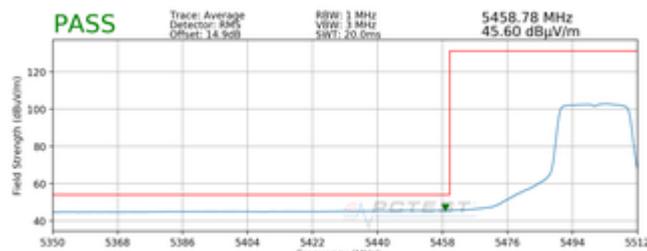
Plot 7-518. Radiated Upper Band Edge Plot SISO NORTH (Average – UNII Band 2A)



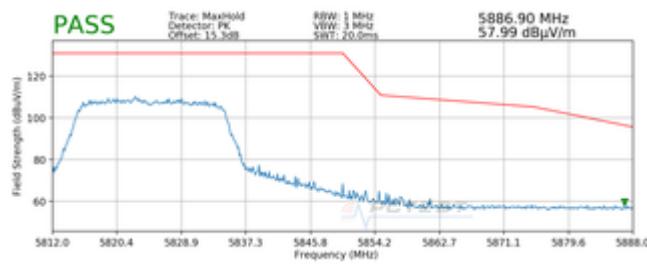
Plot 7-519. Radiated Upper Band Edge Plot SISO NORTH (Peak – UNII Band 2A)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

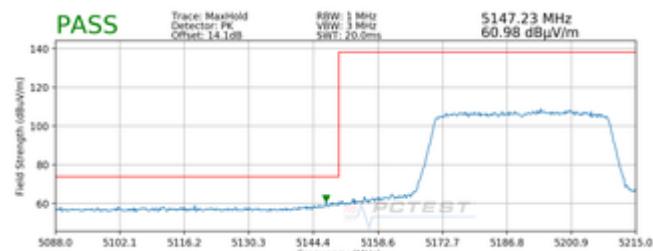
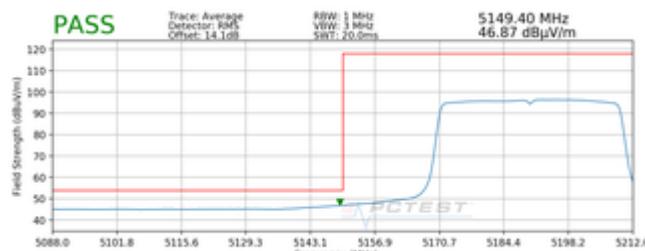


FCC ID: C3K1995 IC: 3048A-1995	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 311 of 336

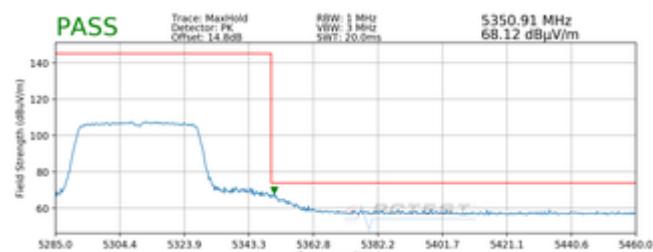
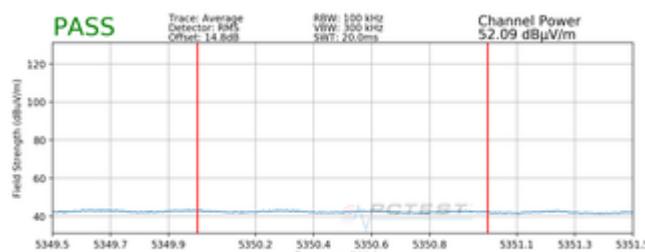
7.6.10 SISO NORTH Radiated Band Edge Measurements (40MHz BW)

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

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

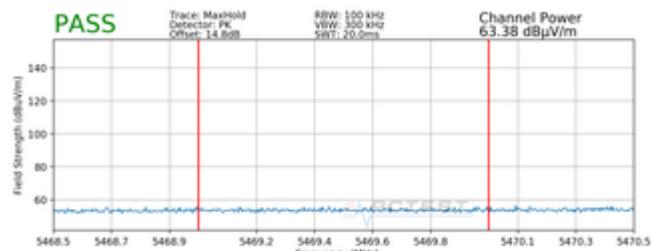


Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5310MHz
Channel: 62

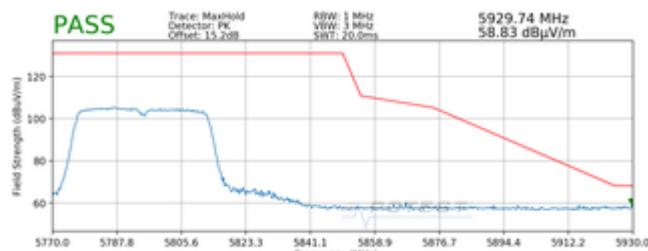


FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



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

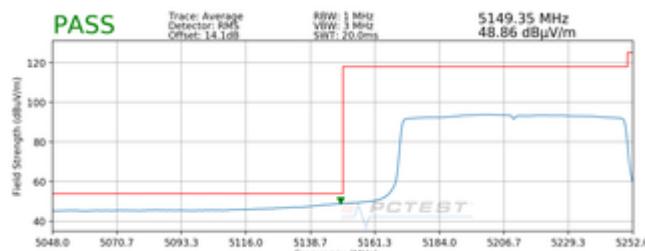


FCC ID: C3K1995 IC: 3048A-1995	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 313 of 336

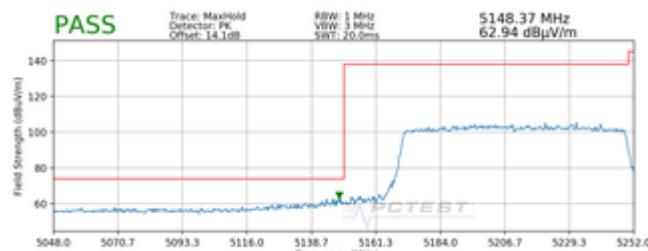
7.6.11 SISO NORTH Radiated Band Edge Measurements (80MHz BW)

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

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

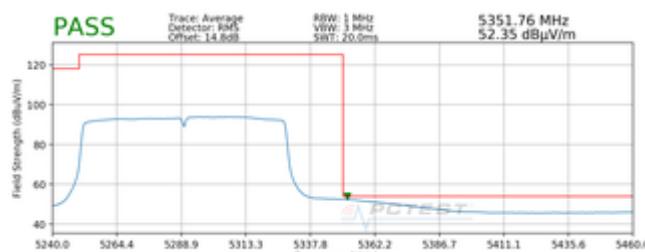


Plot 7-530. Radiated Lower Band Edge Plot SISO NORTH (Average – UNII Band 1)

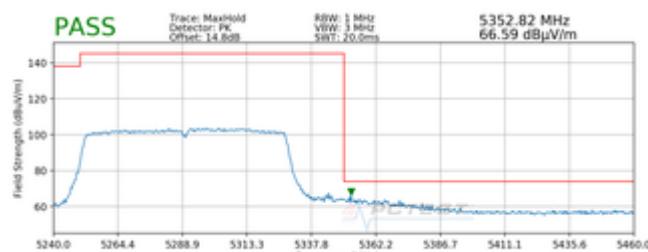


Plot 7-531. Radiated Lower Band Edge Plot SISO NORTH (Peak – UNII Band 1)

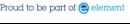
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58



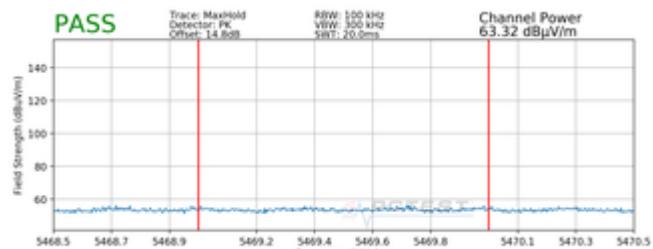
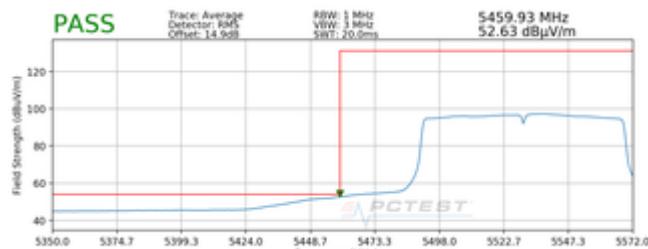
Plot 7-532. Radiated Upper Band Edge Plot SISO NORTH (Average – UNII Band 2A)



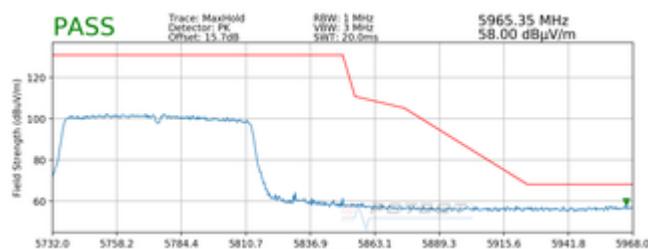
Plot 7-533. Radiated Upper Band Edge Plot SISO NORTH (Peak – UNII Band 2A)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



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

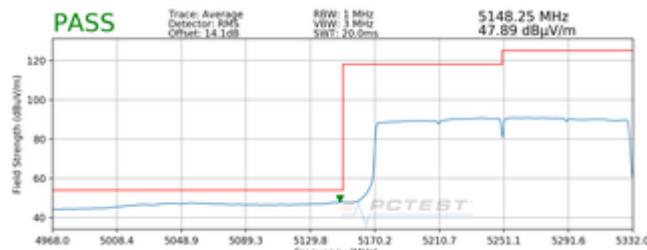


FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 315 of 336

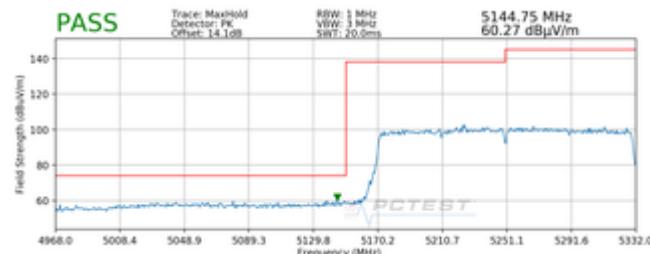
7.6.12 SISO NORTH Radiated Band Edge Measurements (160MHz BW)

§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: 5250MHz
Channel: 50

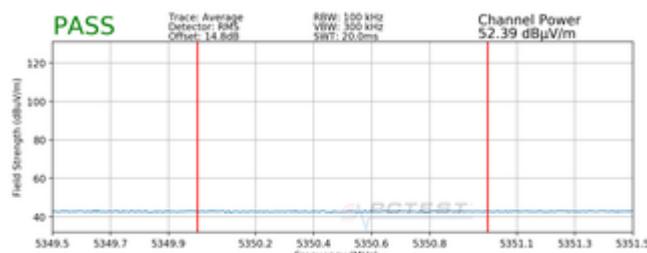


Plot 7-537. Radiated Lower Band Edge Plot SISO NORTH (Average – UNII Band 1)

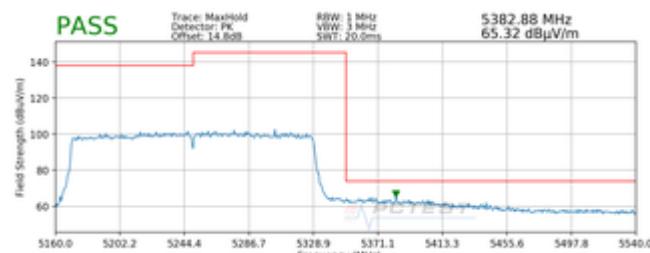


Plot 7-538. Radiated Lower Band Edge Plot SISO NORTH (Peak – UNII Band 1)

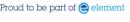
Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5250MHz
Channel: 50



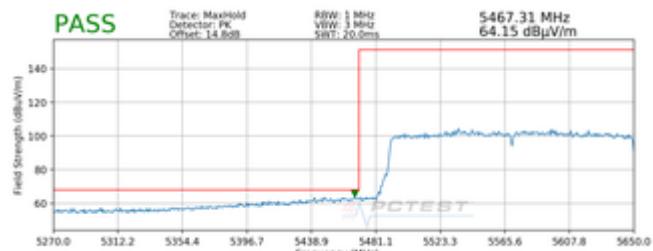
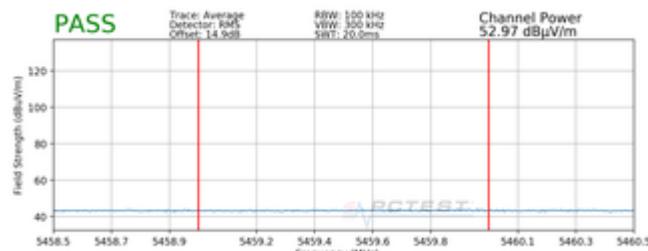
Plot 7-539. Radiated Upper Band Edge Plot SISO NORTH (Average – UNII Band 2A)



Plot 7-540. Radiated Upper Band Edge Plot SISO NORTH (Peak – UNII Band 2A)

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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5570MHz
 Channel: 114

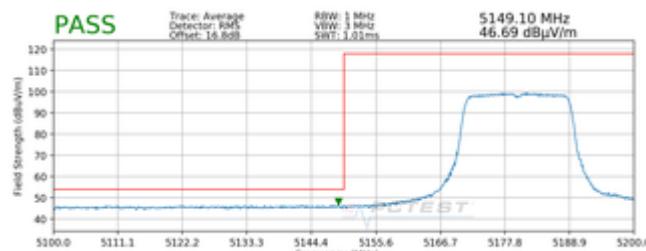


FCC ID: C3K1995 IC: 3048A-1995	 MEASUREMENT REPORT (CERTIFICATION)		 Approved by: Technical Manager
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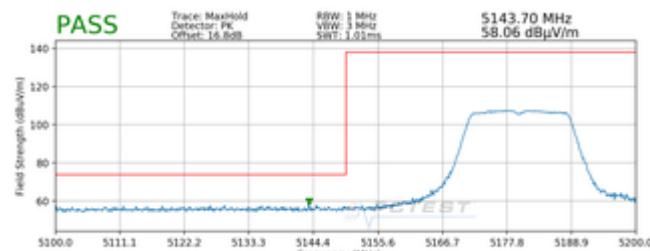
7.6.13 MIMO Radiated Band Edge Measurements (20MHz BW)

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

Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5180MHz
Channel: 36

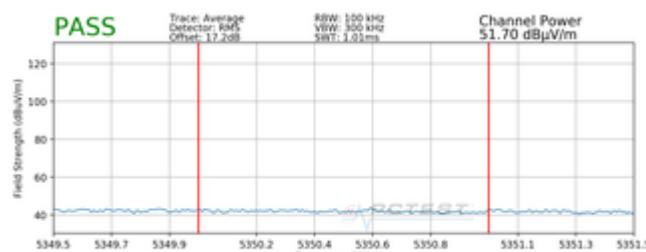


**Plot 7-543. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 1)**

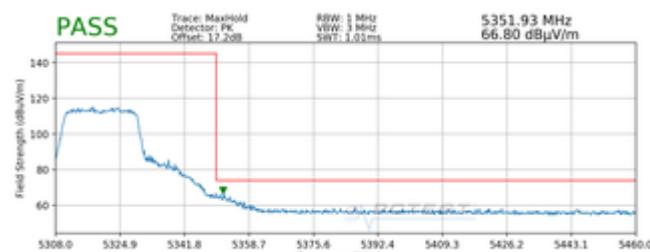


**Plot 7-544. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 1)**

Worst Case Mode: 802.11ax SU
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5320MHz
Channel: 64



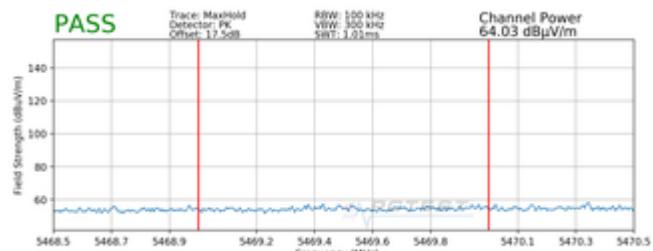
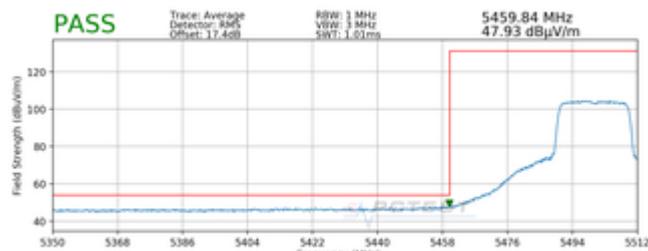
**Plot 7-545. Radiated Upper Band Edge Plot MIMO
(Average – UNII Band 2A)**



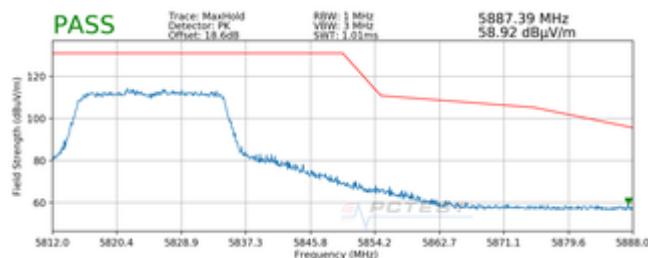
**Plot 7-546. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 2A)**

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

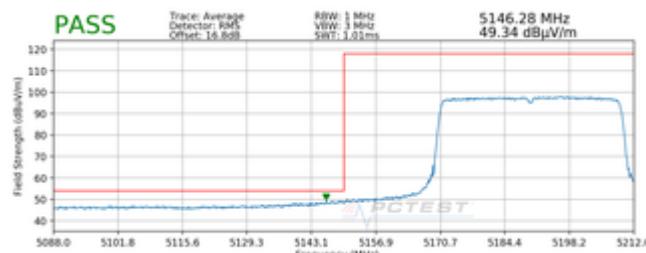


FCC ID: C3K1995 IC: 3048A-1995	 MEASUREMENT REPORT (CERTIFICATION)		 Approved by: Technical Manager
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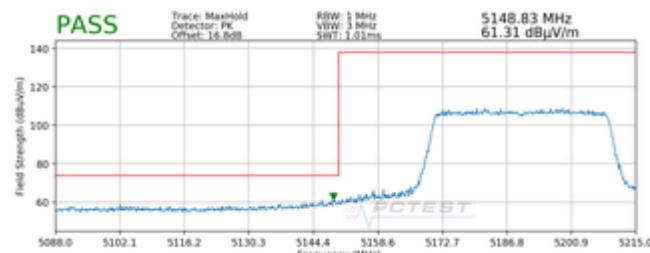
7.6.14 MIMO Radiated Band Edge Measurements (40MHz BW)

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

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

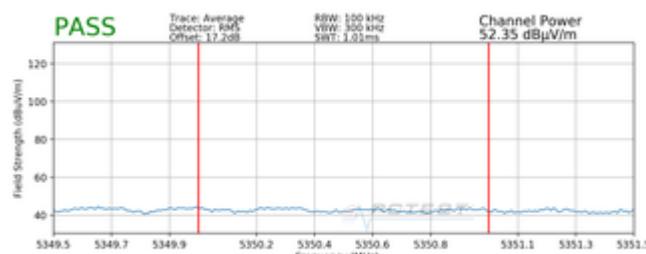


**Plot 7-550. Radiated Lower Band Edge Plot MIMO
(Average – UNII Band 1)**

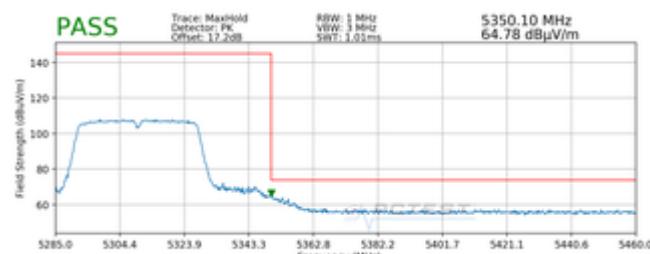


**Plot 7-551. Radiated Lower Band Edge Plot MIMO
(Peak – UNII Band 1)**

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



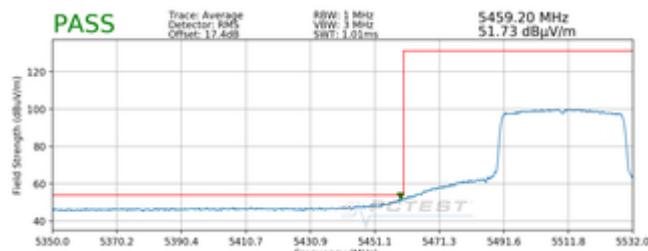
**Plot 7-552. Radiated Upper Band Edge Plot MIMO
(Average – UNII Band 2A)**



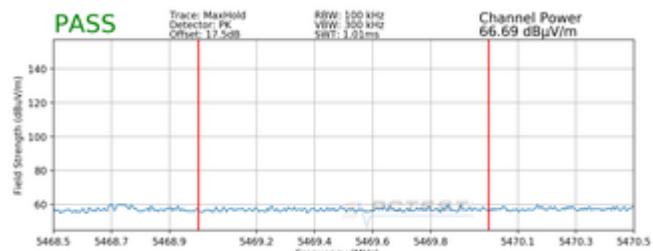
**Plot 7-553. Radiated Upper Band Edge Plot MIMO
(Peak – UNII Band 2A)**

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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Worst Case Mode: 802.11ax SU
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

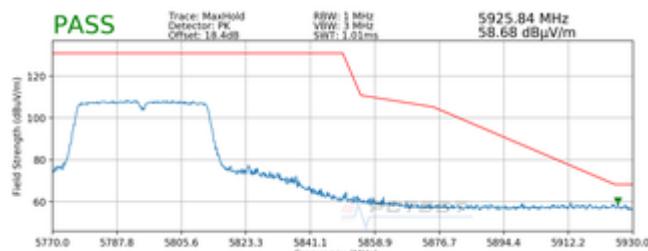


Plot 7-554. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-555. 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



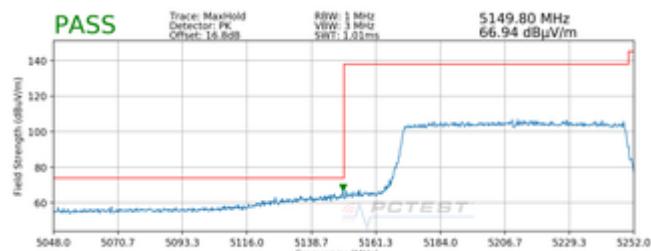
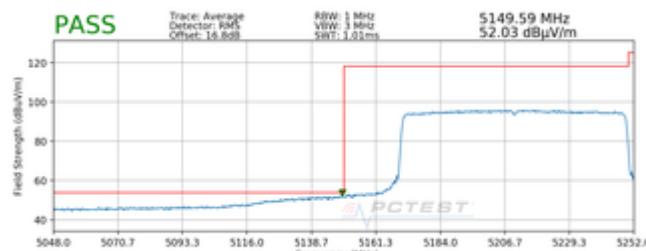
Plot 7-556. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: C3K1995 IC: 3048A-1995	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	 Microsoft Approved by: Technical Manager
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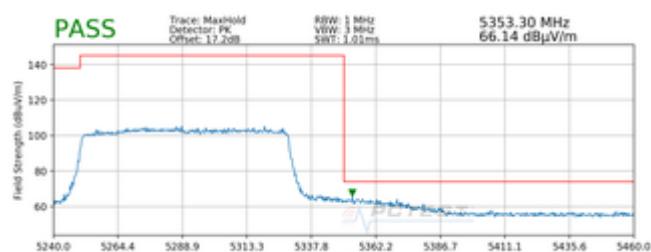
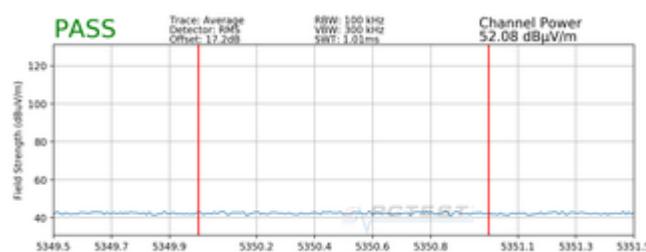
7.6.15 MIMO Radiated Band Edge Measurements (80MHz BW)

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

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

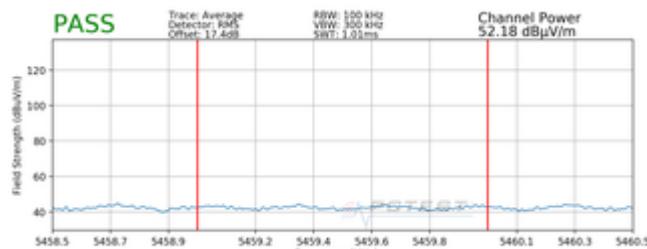


Worst Case Mode: 802.11ax SU
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5290MHz
Channel: 58

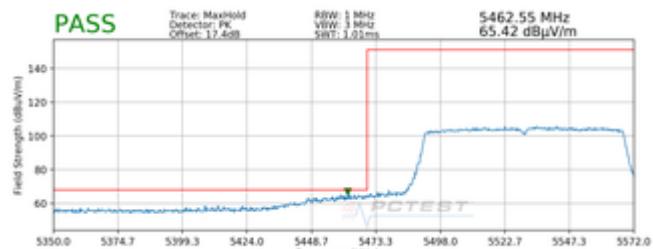


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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

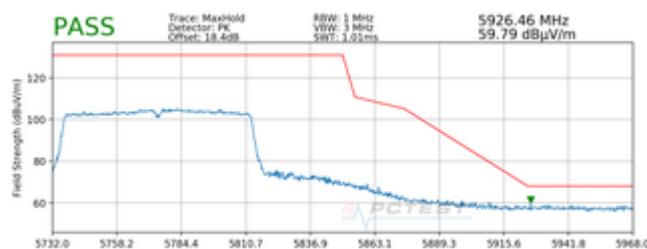


Plot 7-561. Radiated Lower Band Edge Plot MIMO (Average - UNII Band 2C)



Plot 7-562. Radiated Lower Band Edge Plot MIMO (Peak - UNII Band 2C)

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



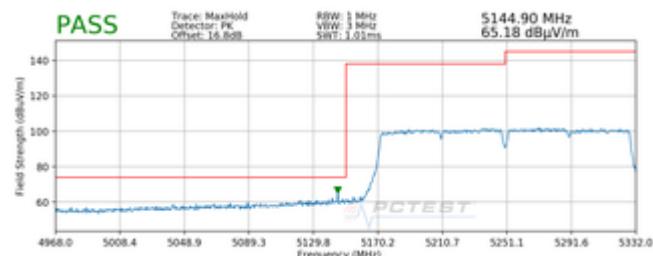
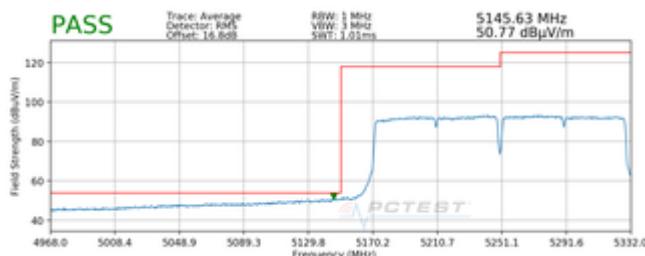
Plot 7-563. Radiated Upper Band Edge Plot MIMO (Peak - UNII Band 3)

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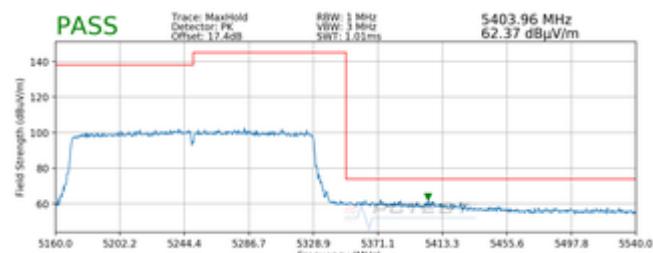
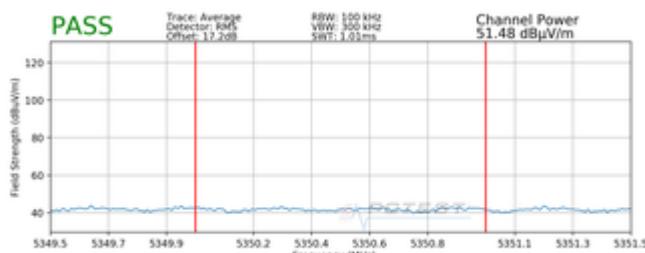
7.6.16 MIMO Radiated Band Edge Measurements (160MHz BW)

§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: 5250MHz
Channel: 50

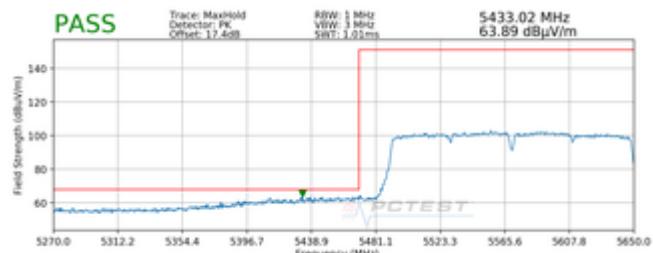
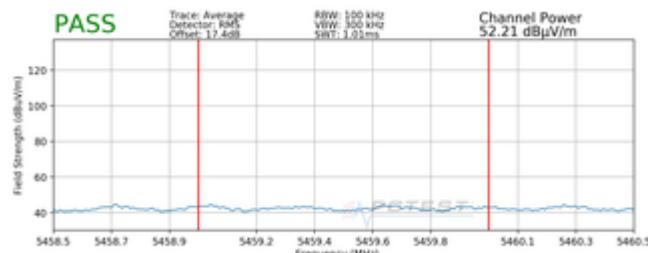


Worst Case Mode: 802.11ac
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5250MHz
Channel: 50



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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5570MHz
 Channel: 114



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7.7 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 7-81 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 7-81. 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.

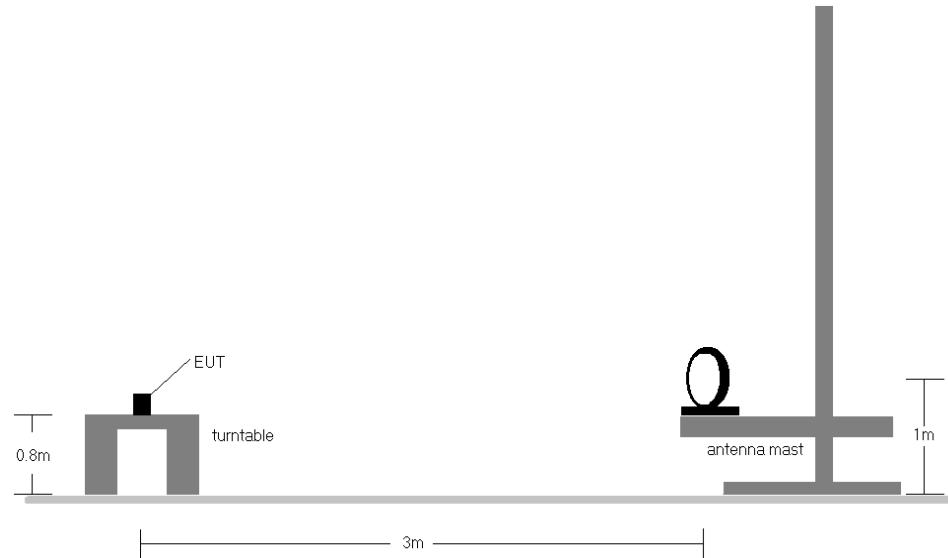


Figure 7-6. Radiated Test Setup < 30MHz

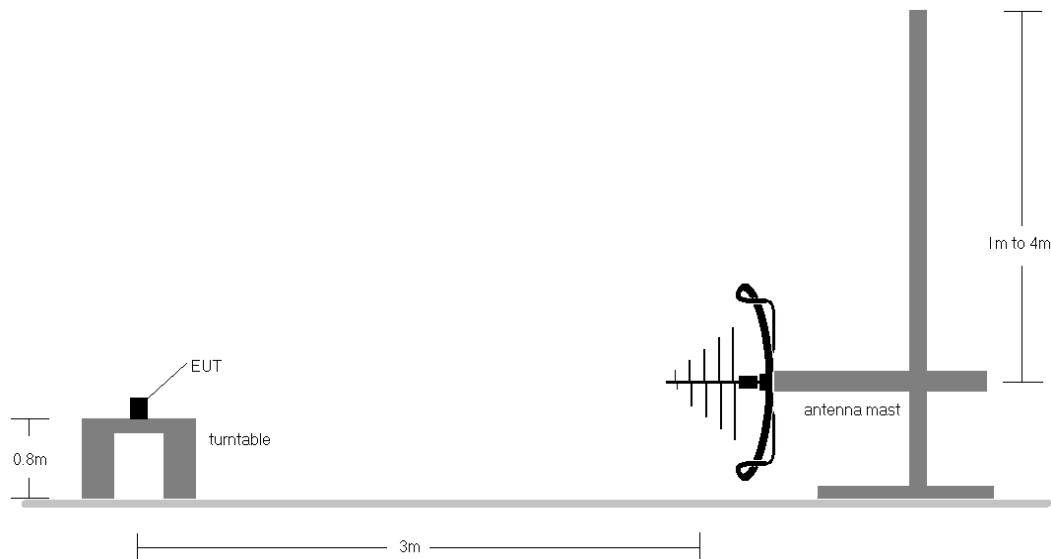


Figure 7-7. Radiated Test Setup < 1GHz

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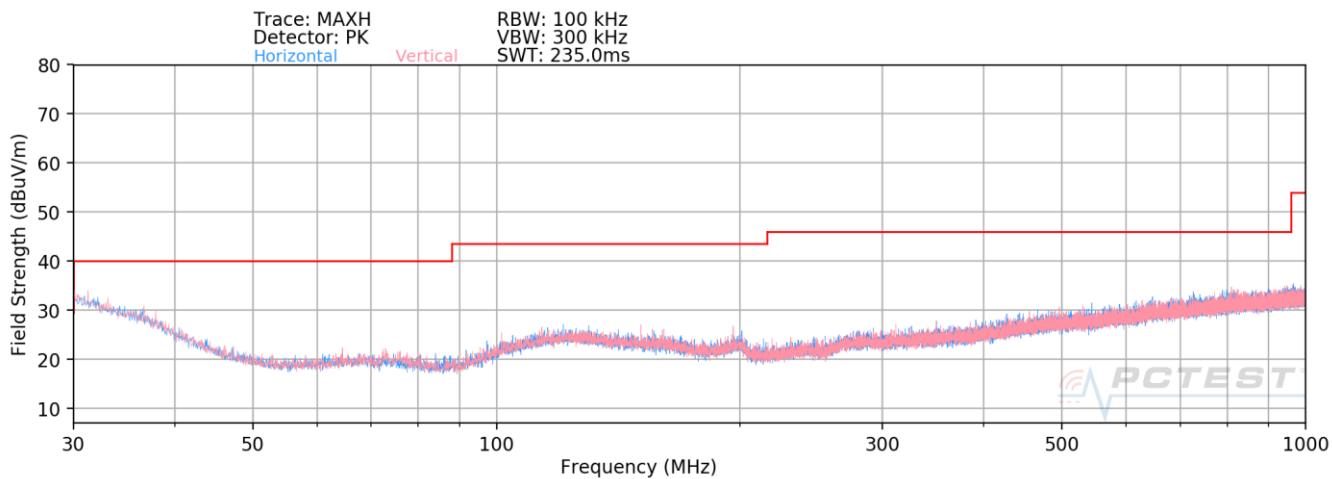
Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-81.
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.

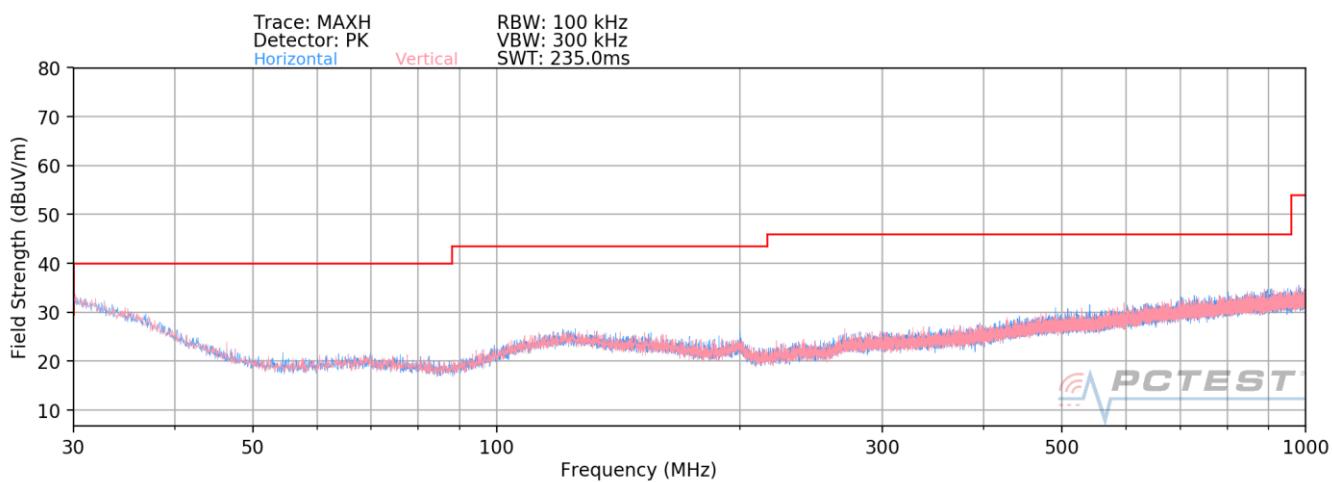
FCC ID: C3K1995 IC: 3048A-1995	 PCTEST[®] Proud to be part of element		MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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MIMO Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-570. Radiated Spurious Plot below 1GHz MIMO (802.11a) Closed



Plot 7-571. Radiated Spurious Plot below 1GHz MIMO (802.11a) Open

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8 Line-Conducted Test Data

§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 (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-82. Conducted Limits

*Decreases with the logarithm of the frequency.

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)
3. Detector = RMS
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 diagram below.

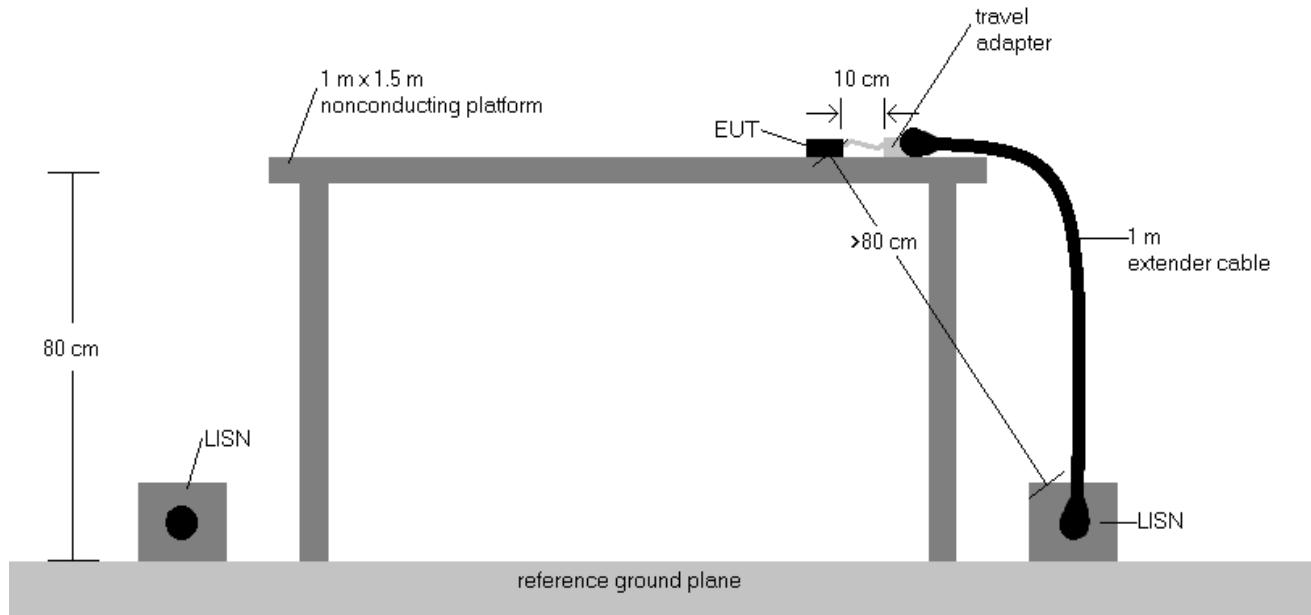
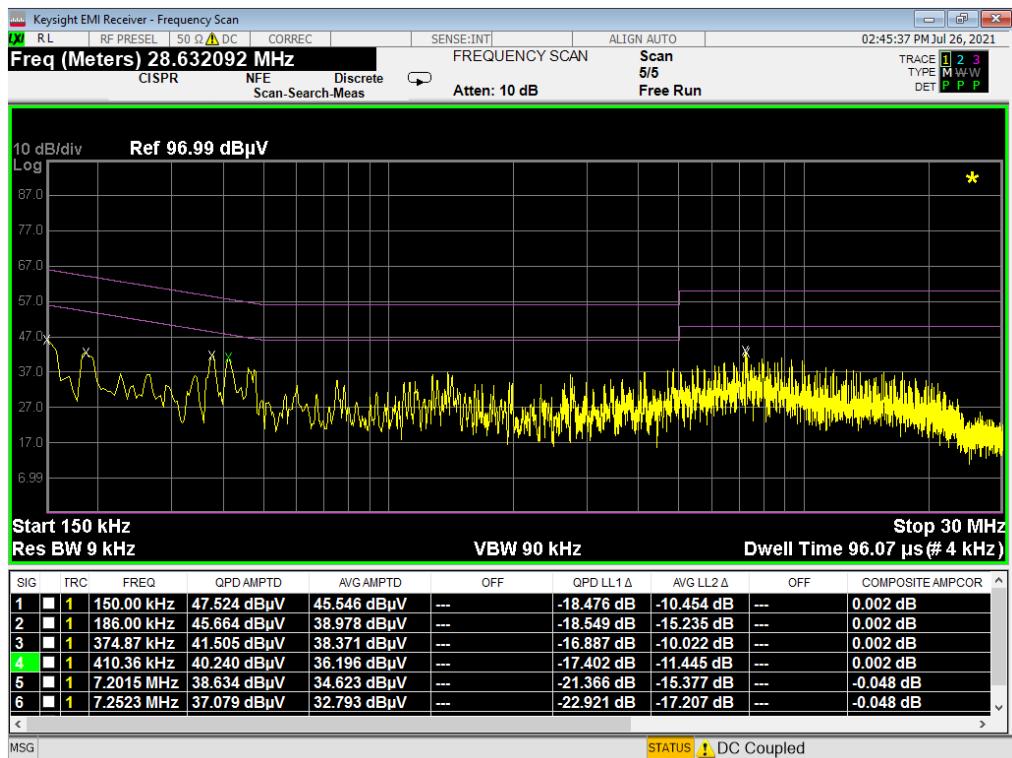


Figure 7-8. Test Instrument & Measurement Setup

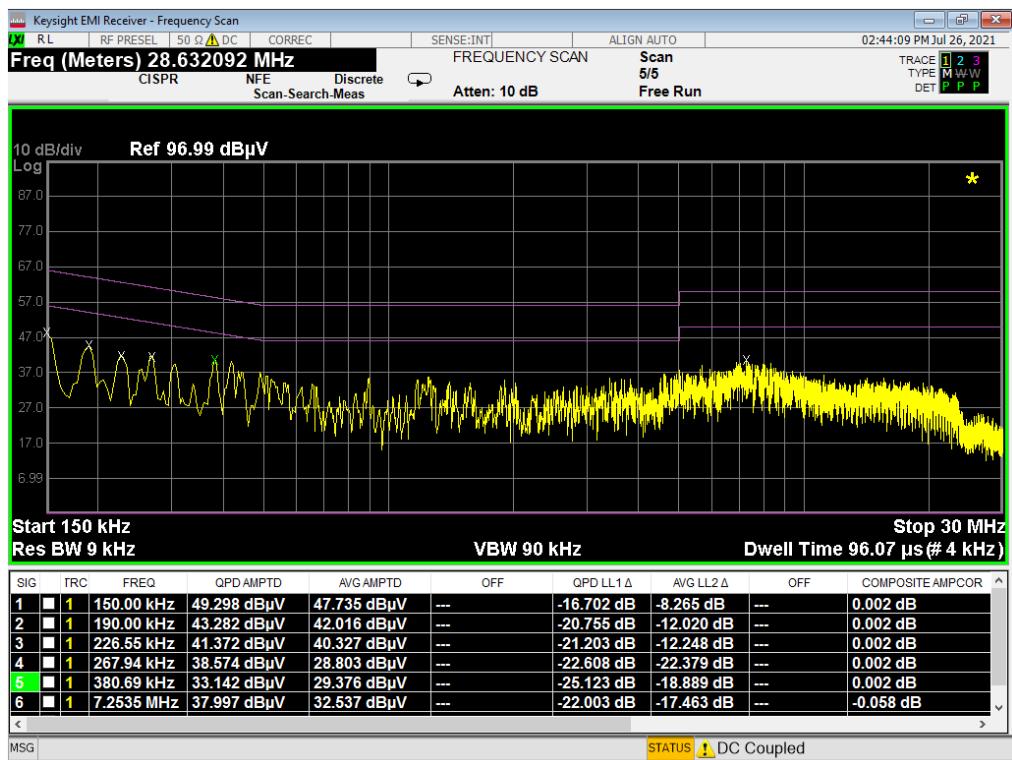
Test Notes

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.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dB μ V) = QP/AV Analyzer/Receiver Level (dB μ V) + Corr. (dB)
5. Margin (dB) = QP/AV Limit (dB μ V) - QP/AV Level (dB μ V)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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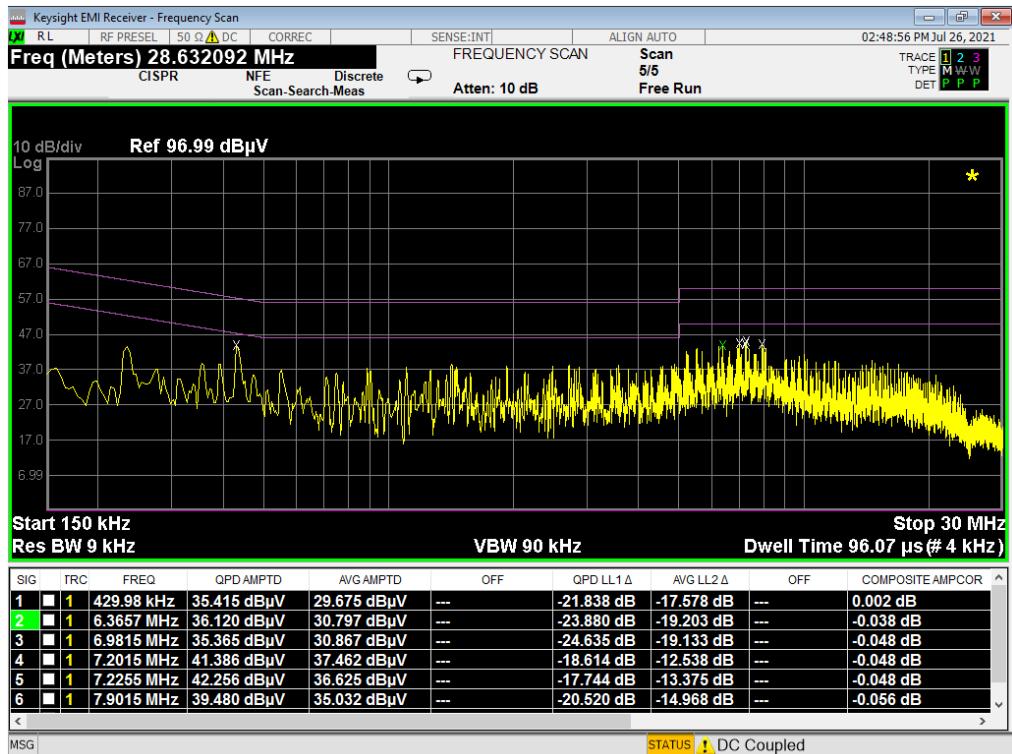


Plot 7-572. Line Conducted Plot with 802.11a UNII Band 1 (L1)

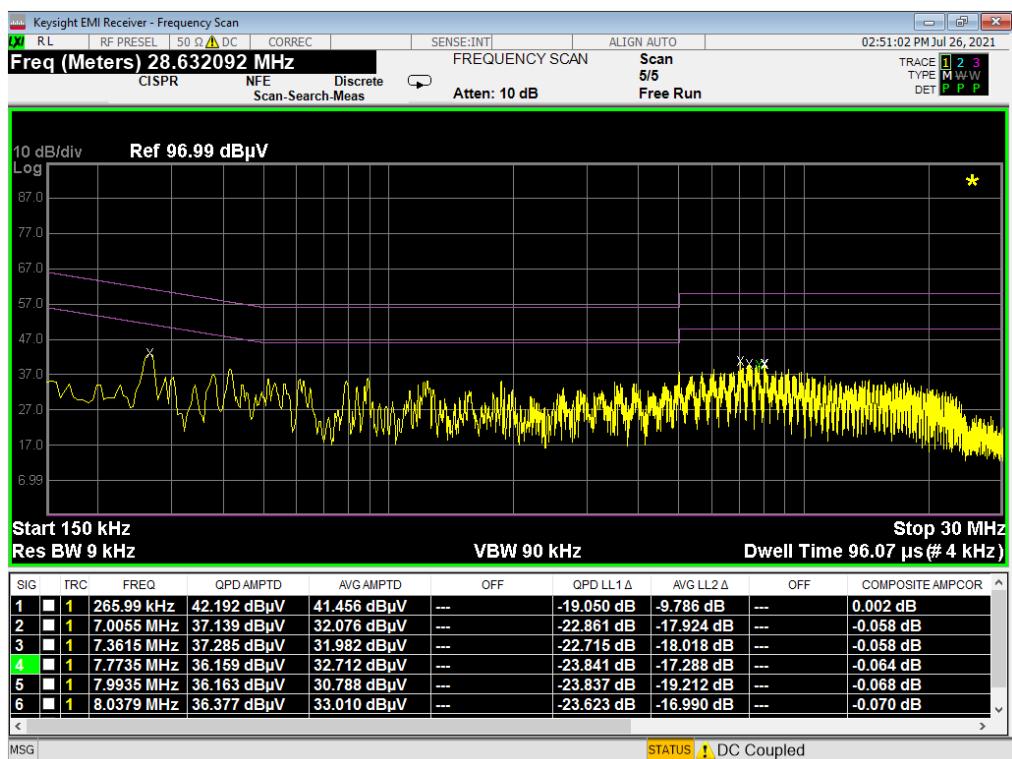


Plot 7-573. Line Conducted Plot with 802.11a UNII Band 1 (N)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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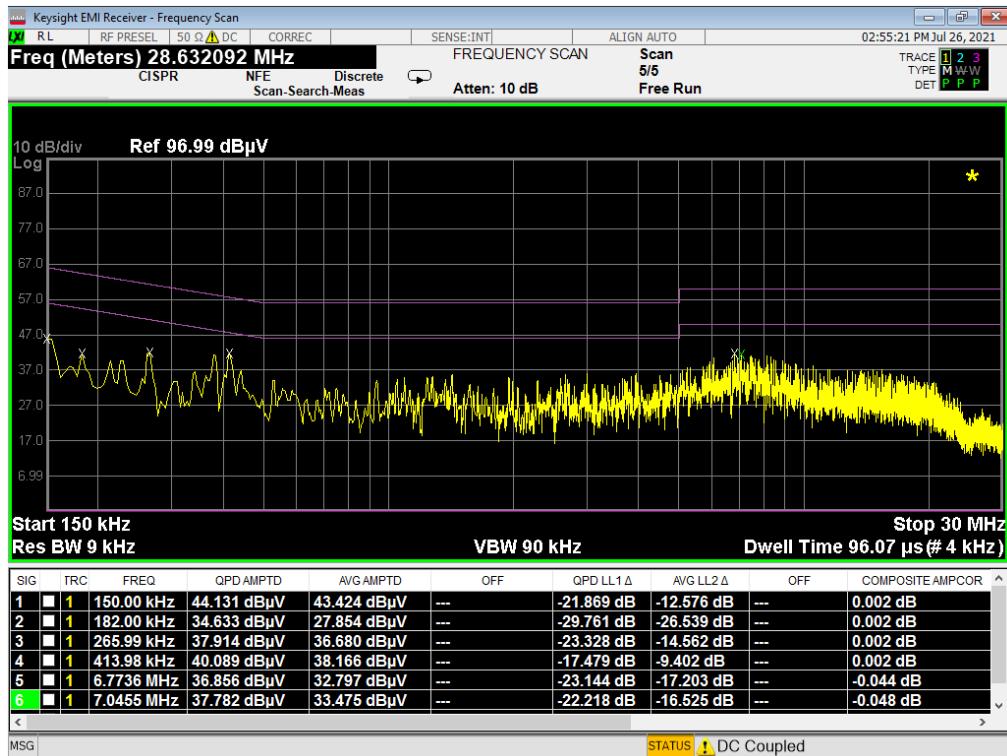


Plot 7-574. Line Conducted Plot with 802.11a UNII Band 2A (L1)

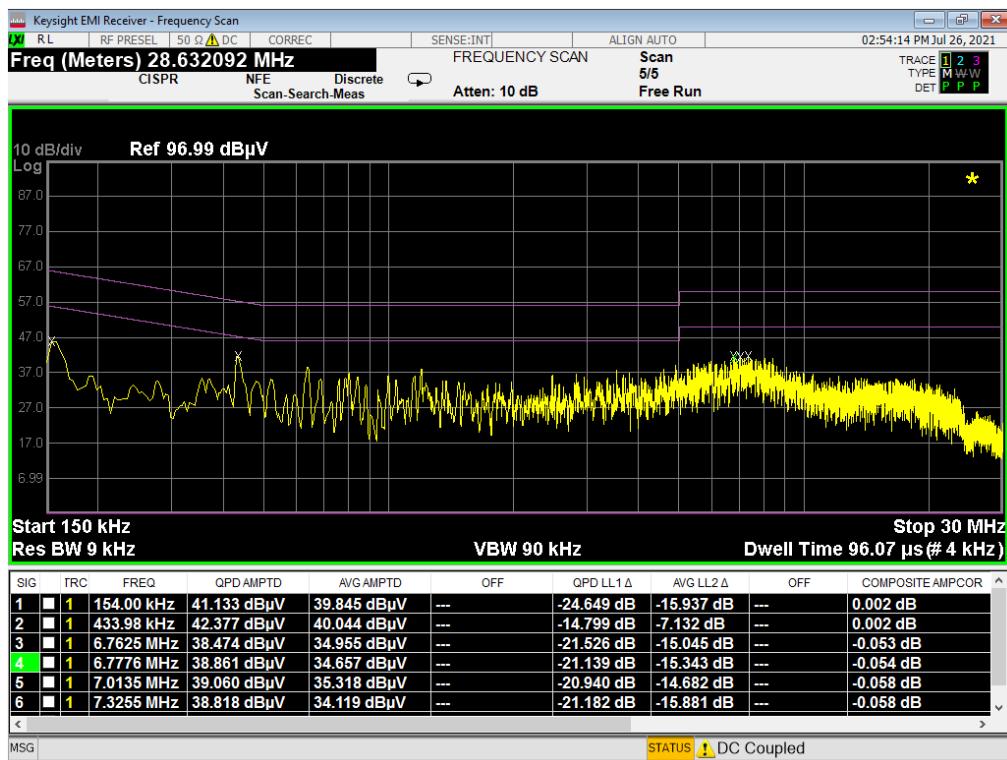


Plot 7-575. Line Conducted Plot with 802.11a UNII Band 2A (N)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Microsoft	Approved by: Technical Manager
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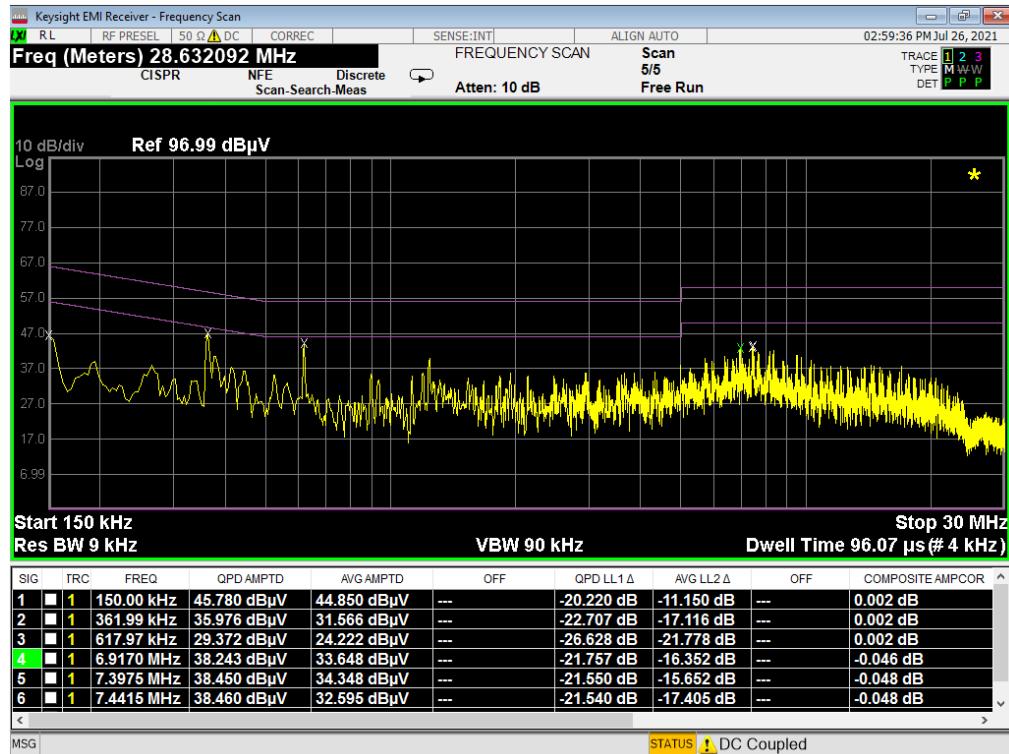


Plot 7-576. Line Conducted Plot with 802.11a UNII Band 2C (L1)

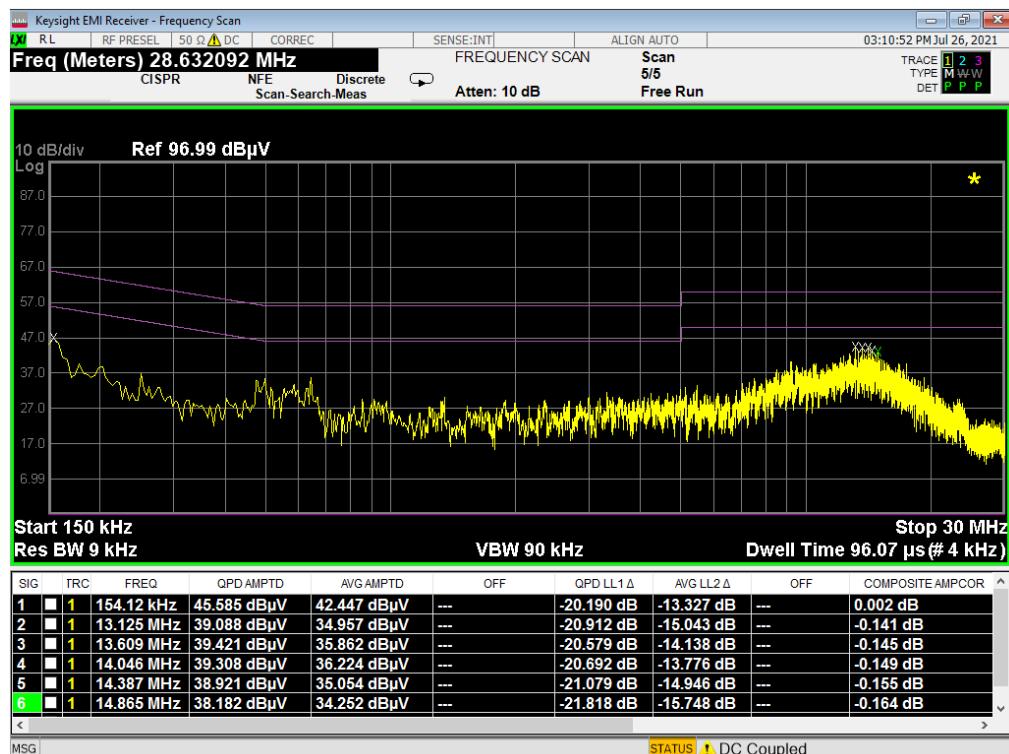


Plot 7-577. Line Conducted Plot with 802.11a UNII Band 2C (N)

FCC ID: C3K1995 IC: 3048A-1995	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Technical Manager
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Plot 7-578. Line Conducted Plot with 802.11a UNII Band 3 (L1)



Plot 7-579. Line Conducted Plot with 802.11a UNII Band 3 (N)

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Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset	Page 335 of 336

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Microsoft Corporation Portable Handset FCC ID: C3K1995** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and with RSS-247 of the Innovation, Science, and Economic Development Canada rules.

FCC ID: C3K1995 IC: 3048A-1995	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2105060048-14.C3K	Test Dates: 05/20/2021 - 09/08/2021	EUT Type: Portable Handset		Page 336 of 336