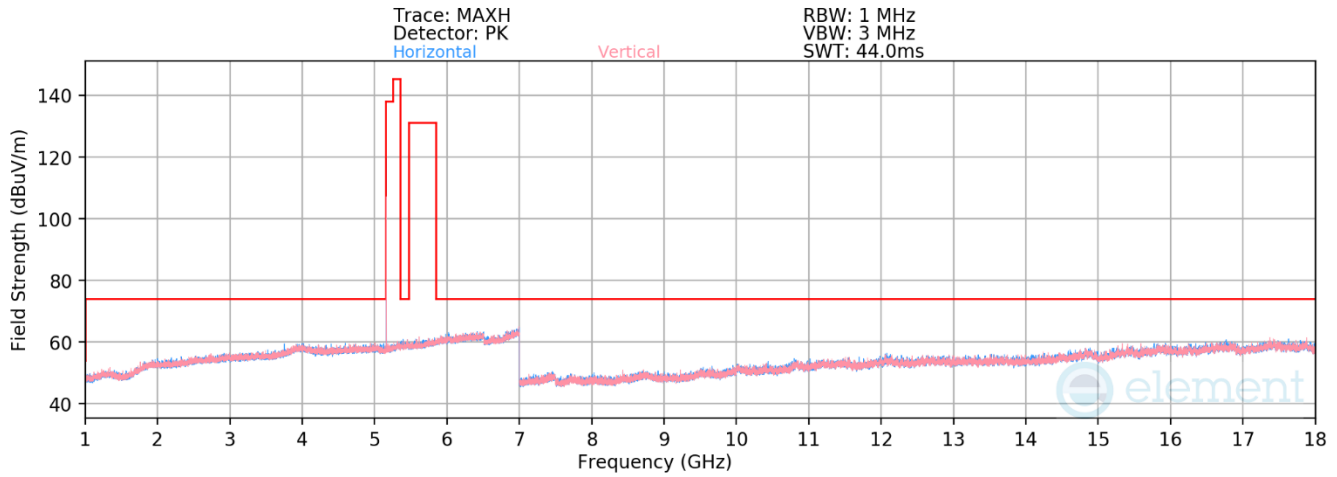


7.6.1 Antenna WF5T Radiated Spurious Emission (1-18GHz)



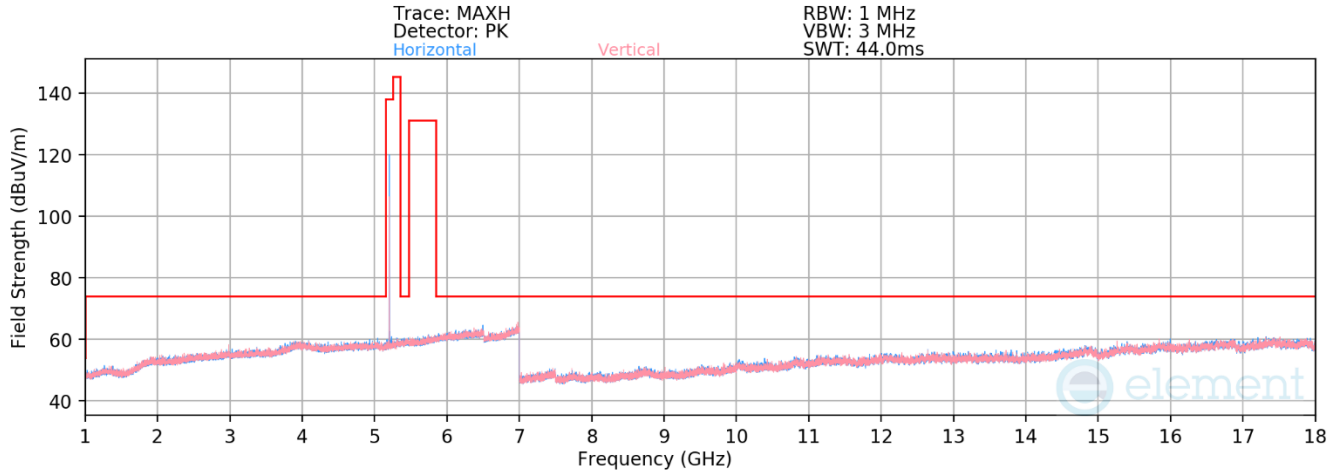
Plot 7-61. Radiated Spurious Emissions 1-18GHz Antenna WF5T (BDR – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

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]
10324.00	Peak	H	-	-	-71.59	14.08	49.49	68.20	-18.71
* 15486.00	Average	H	-	-	-84.17	20.83	43.66	53.98	-10.32
* 15486.00	Peak	H	-	-	-73.03	20.83	54.80	73.98	-19.18

Table 7-16. Radiated Spurious Emissions Measurements Antenna WF5T

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 63 of 100	



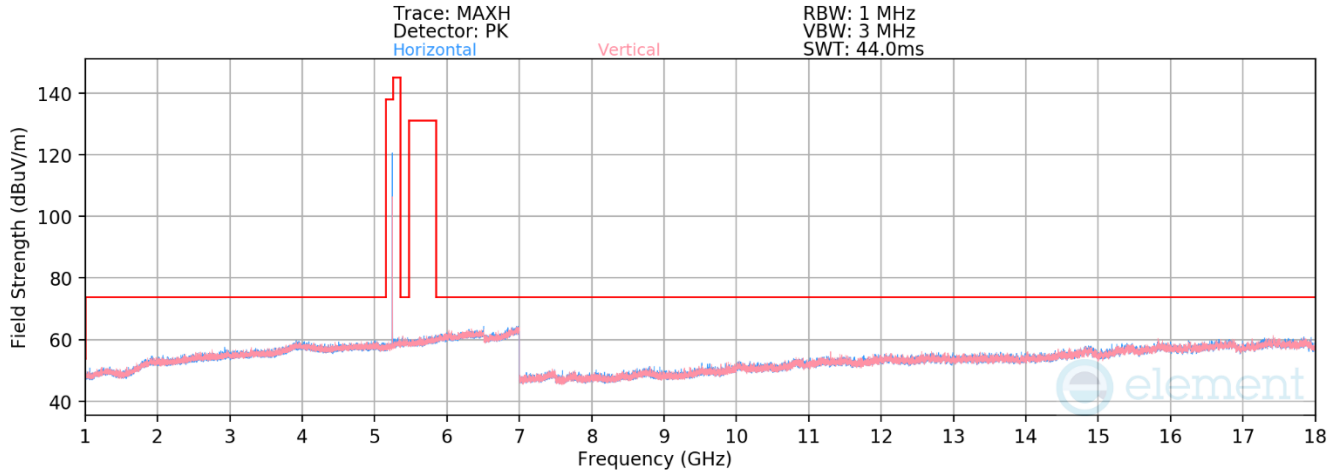
Plot 7-62. Radiated Spurious Emissions 1-18GHz Antenna WF5T (BDR – 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

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]
10408.00	Peak	H	-	-	-71.64	14.52	49.88	68.20	-18.32
* 15612.00	Average	H	-	-	-84.49	21.45	43.96	53.98	-10.02
* 15612.00	Peak	H	-	-	-73.09	21.45	55.36	73.98	-18.62

Table 7-17. Radiated Spurious Emissions Measurements Antenna WF5T

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 64 of 100



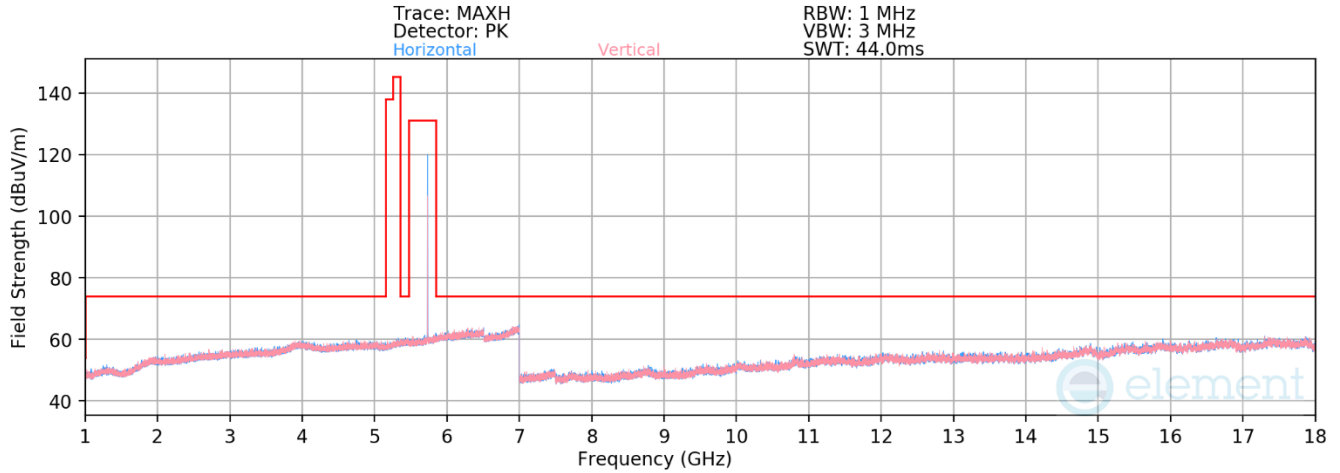
Plot 7-63. Radiated Spurious Emissions 1-18GHz Antenna WF5T (BDR – 5245MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

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]
10490.00	Peak	H	-	-	-71.81	14.21	49.40	68.20	-18.80
* 15735.00	Average	H	-	-	-84.66	21.34	43.68	53.98	-10.30
* 15735.00	Peak	H	-	-	-73.93	21.34	54.41	73.98	-19.57

Table 7-18. Radiated Spurious Emissions Measurements Antenna WF5T

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 65 of 100



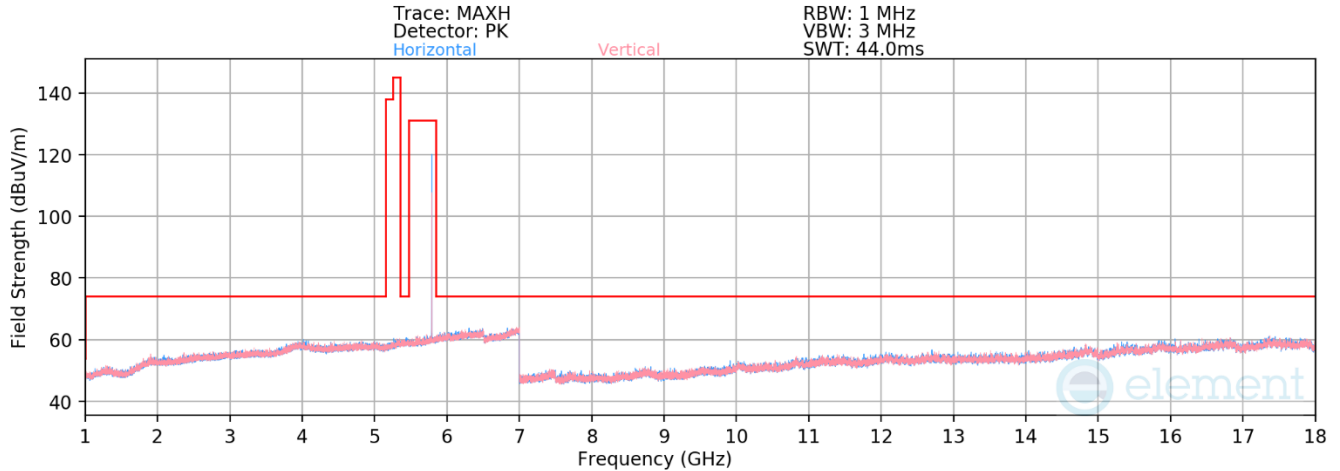
Plot 7-64. Radiated Spurious Emissions 1-18GHz Antenna WF5T (BDR – 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

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]
* 11466.00	Average	H	-	-	-83.12	16.46	40.34	53.98	-13.64
* 11466.00	Peak	H	-	-	-71.00	16.46	52.46	73.98	-21.52
17199.00	Peak	H	-	-	-71.92	22.82	57.90	68.20	-10.30

Table 7-19. Radiated Spurious Emissions Measurements Antenna WF5T

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 66 of 100



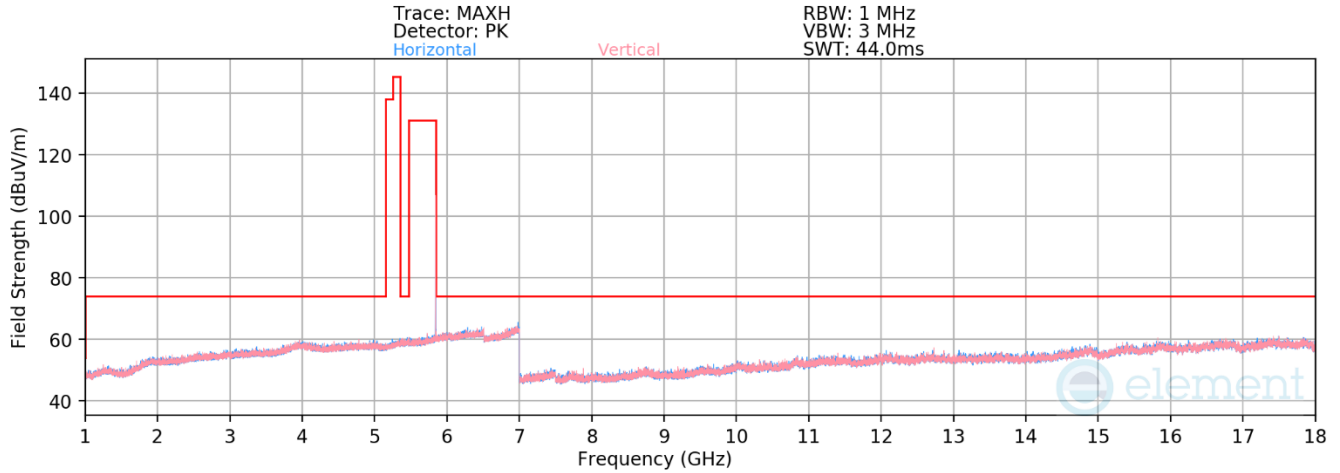
Plot 7-65. Radiated Spurious Emissions 1-18GHz Antenna WF5T (BDR – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

	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]
*	11578.00	Average	H	-	-	-83.64	17.00	40.36	53.98	-13.62
*	11578.00	Peak	H	-	-	-72.44	17.00	51.56	73.98	-22.42
	17367.00	Peak	H	-	-	-73.56	23.44	56.88	68.20	-11.32

Table 7-20. Radiated Spurious Emissions Measurements Antenna WF5T

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 67 of 100



Plot 7-66. Radiated Spurious Emissions 1-18GHz Antenna WF5T (BDR – 5844MHz)

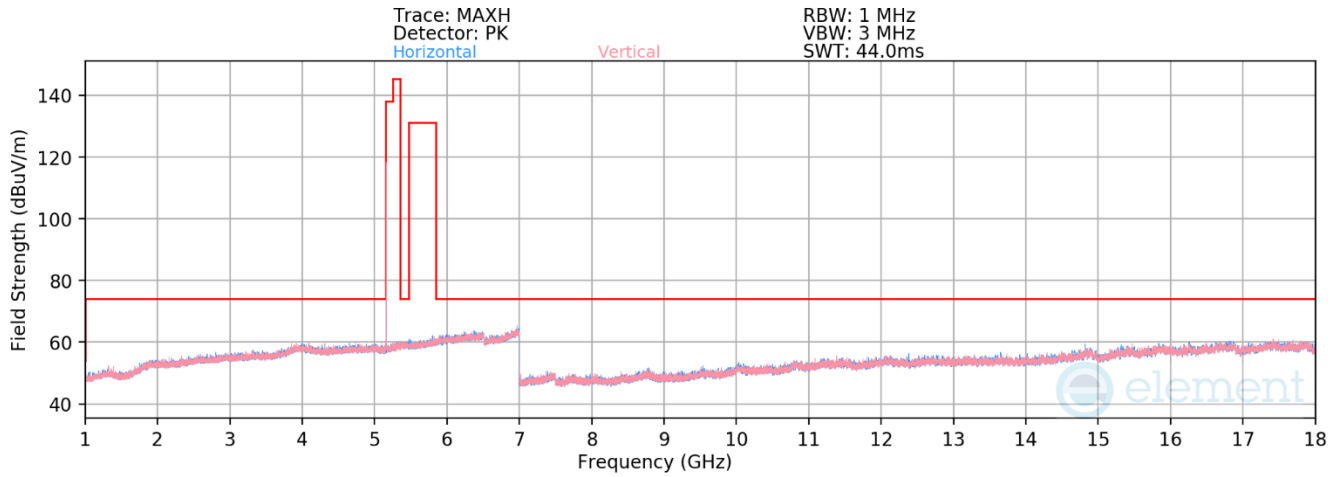
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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]
* 11688.00	Average	H	-	-	-83.41	17.40	40.99	53.98	-12.99
* 11688.00	Peak	H	-	-	-71.82	17.40	52.58	73.98	-21.40
17532.00	Peak	H	-	-	-74.00	22.78	55.78	68.20	-12.42

Table 7-21. Radiated Spurious Emissions Measurements Antenna WF5T

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 68 of 100

7.6.2 Antenna WF5B Radiated Spurious Emission



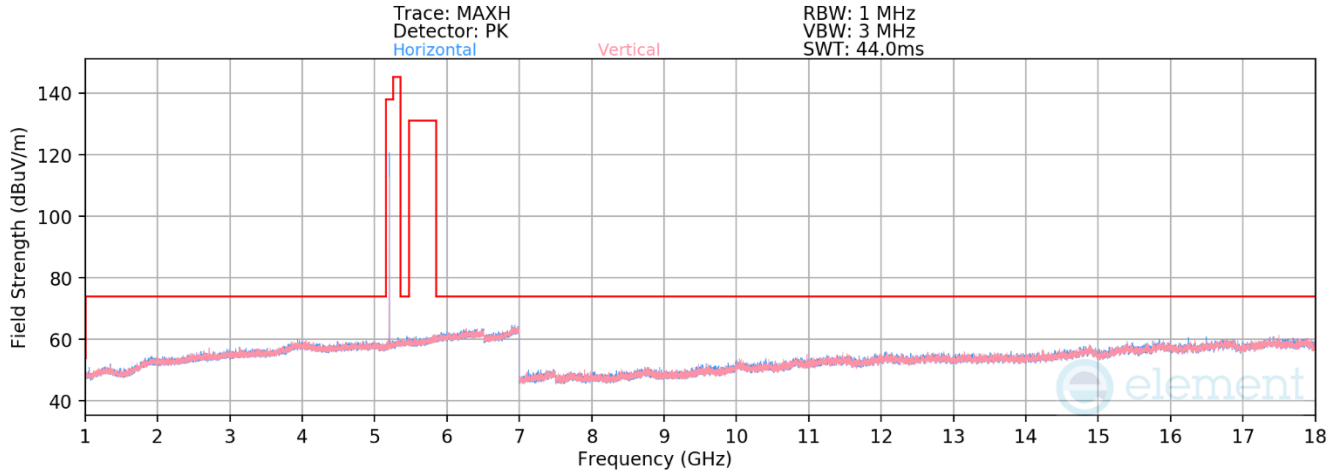
Plot 7-67. Radiated Spurious Emissions 1-18GHz Antenna WF5B (BDR – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10324.00	Peak	H	-	-	-71.45	14.08	49.63	68.20	-18.57
* 15486.00	Average	H	-	-	-84.06	20.83	43.77	53.98	-10.21
* 15486.00	Peak	H	-	-	-71.68	20.83	56.15	73.98	-17.83

Table 7-22. Radiated Spurious Emissions Measurements Antenna WF5B

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 69 of 100



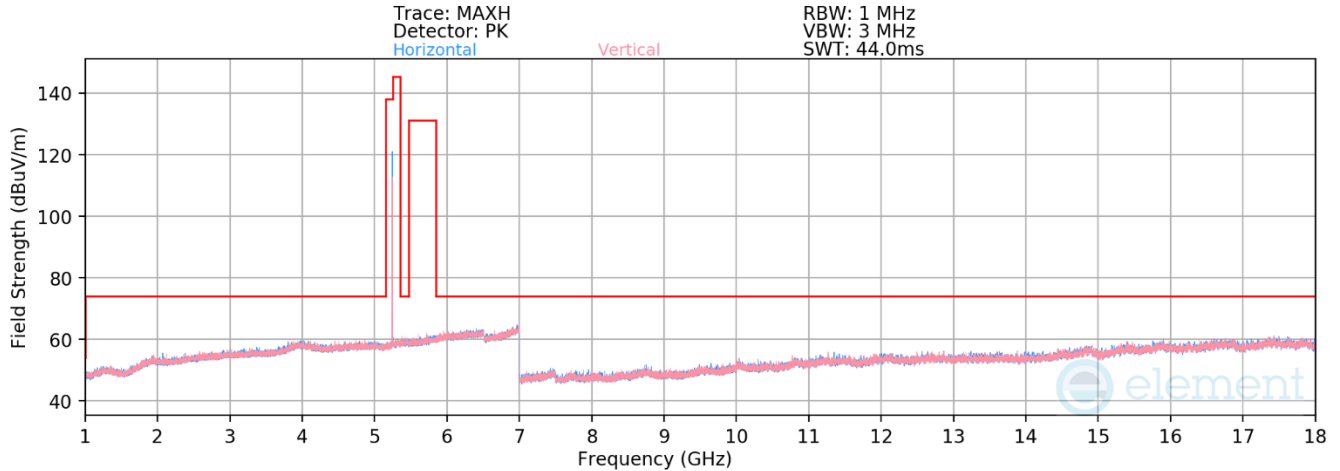
Plot 7-68. Radiated Spurious Emissions 1-18GHz Antenna WF5B (BDR - 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	H	-	-	-71.54	14.52	49.98	68.20	-18.22
* 15612.00	Average	H	-	-	-84.39	21.45	44.06	53.98	-9.92
* 15612.00	Peak	H	-	-	-73.41	21.45	55.04	73.98	-18.94

Table 7-23. Radiated Spurious Emissions Measurements Antenna WF5B

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 70 of 100



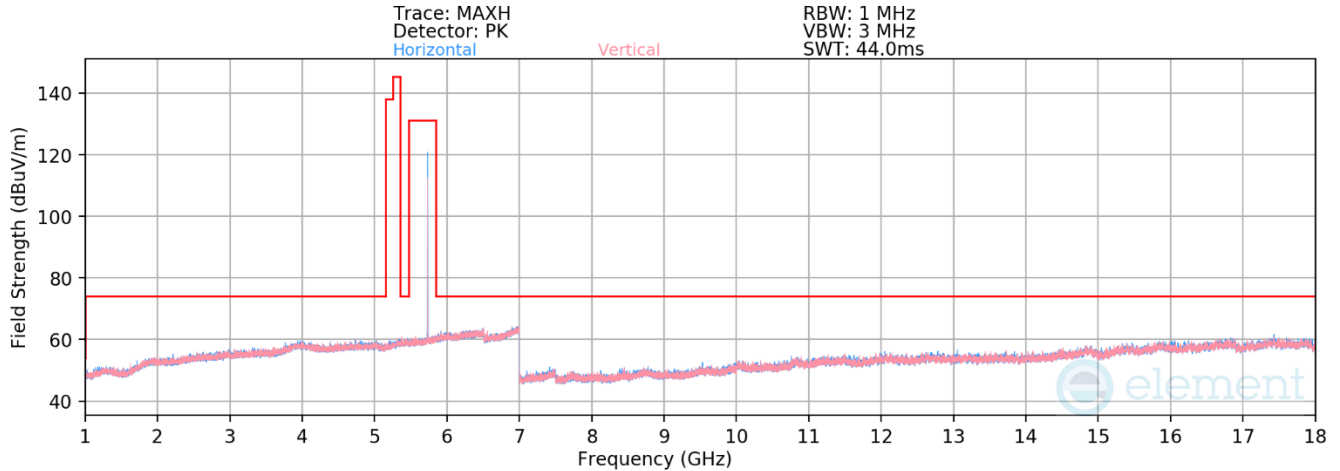
Plot 7-69. Radiated Spurious Emissions 1-18GHz Antenna WF5B (BDR – 5245MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

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]
10490.00	Peak	H	-	-	-71.01	14.21	50.20	68.20	-18.00
* 15735.00	Average	H	-	-	-84.33	21.34	44.01	53.98	-9.97
* 15735.00	Peak	H	-	-	-72.35	21.34	55.99	73.98	-17.99

Table 7-24. Radiated Spurious Emissions Measurements Antenna WF5B

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 71 of 100



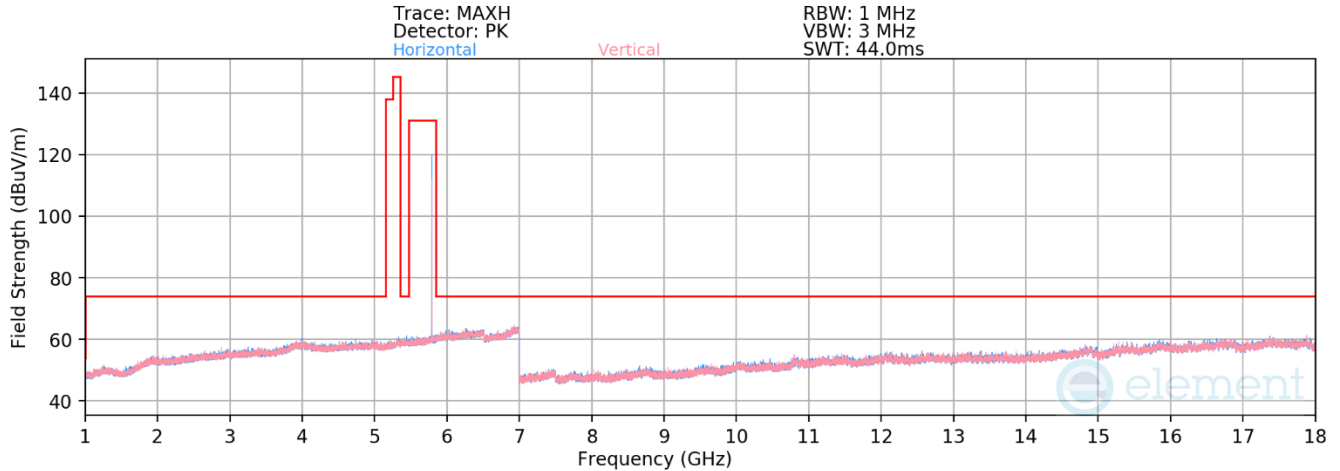
Plot 7-70. Radiated Spurious Emissions 1-18GHz Antenna WF5B (BDR – 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

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]
* 11466.00	Average	H	-	-	-83.34	16.46	40.12	53.98	-13.86
* 11466.00	Peak	H	-	-	-71.37	16.46	52.09	73.98	-21.89
17199.00	Peak	H	-	-	-73.61	22.82	56.21	68.20	-11.99

Table 7-25. Radiated Spurious Emissions Measurements Antenna WF5B

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 72 of 100



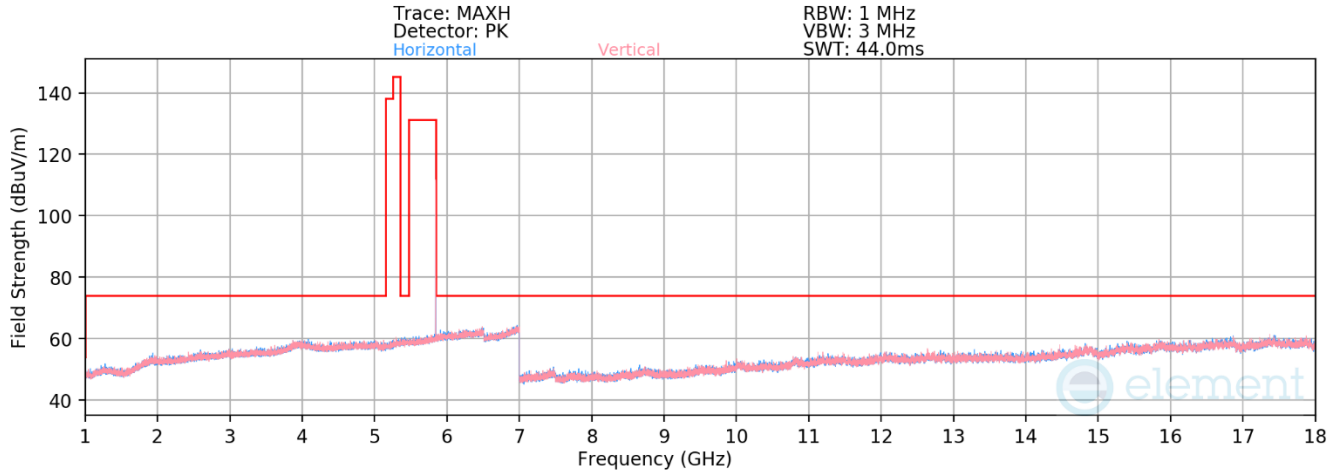
Plot 7-71. Radiated Spurious Emissions 1-18GHz Antenna WF5B (BDR – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

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]
* 11578.00	Average	H	-	-	-83.57	17.00	40.43	53.98	-13.55
* 11578.00	Peak	H	-	-	-72.49	17.00	51.51	73.98	-22.47
17367.00	Peak	H	-	-	-72.89	23.44	57.55	68.20	-10.65

Table 7-26. Radiated Spurious Emissions Measurements Antenna WF5B

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 73 of 100



Plot 7-72. Radiated Spurious Emissions 1-18GHz Antenna WF5B (BDR – 5844MHz)

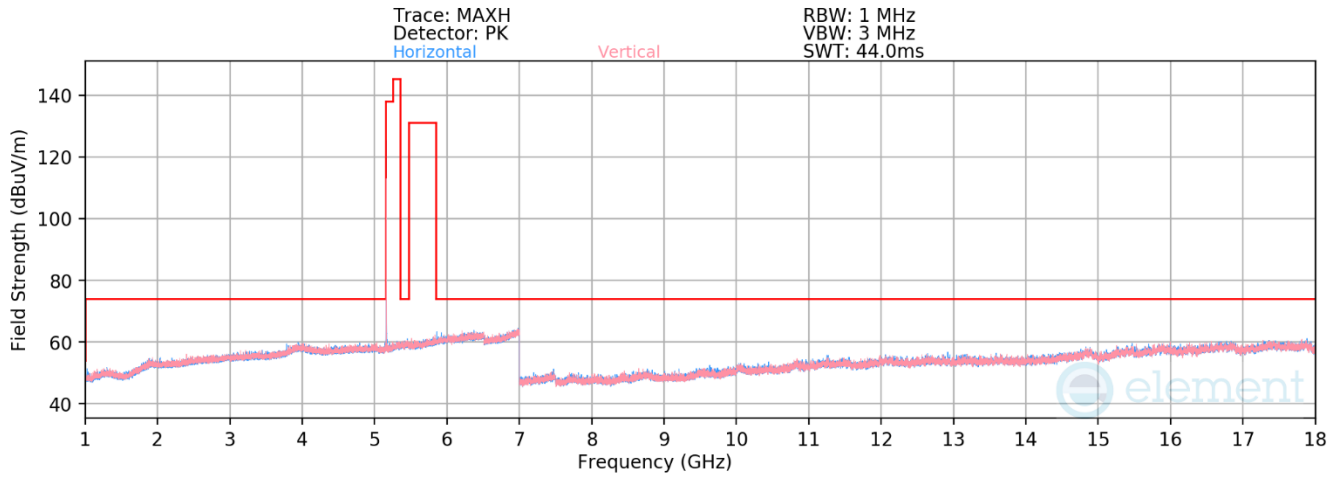
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

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]
* 11688.00	Average	H	-	-	-83.78	17.40	40.62	53.98	-13.36
* 11688.00	Peak	H	-	-	-72.59	17.40	51.81	73.98	-22.17
17532.00	Peak	H	-	-	-73.96	22.78	55.82	68.20	-12.38

Table 7-27. Radiated Spurious Emissions Measurements Antenna WF5B

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 74 of 100

7.6.3 TxBF Radiated Spurious Emission



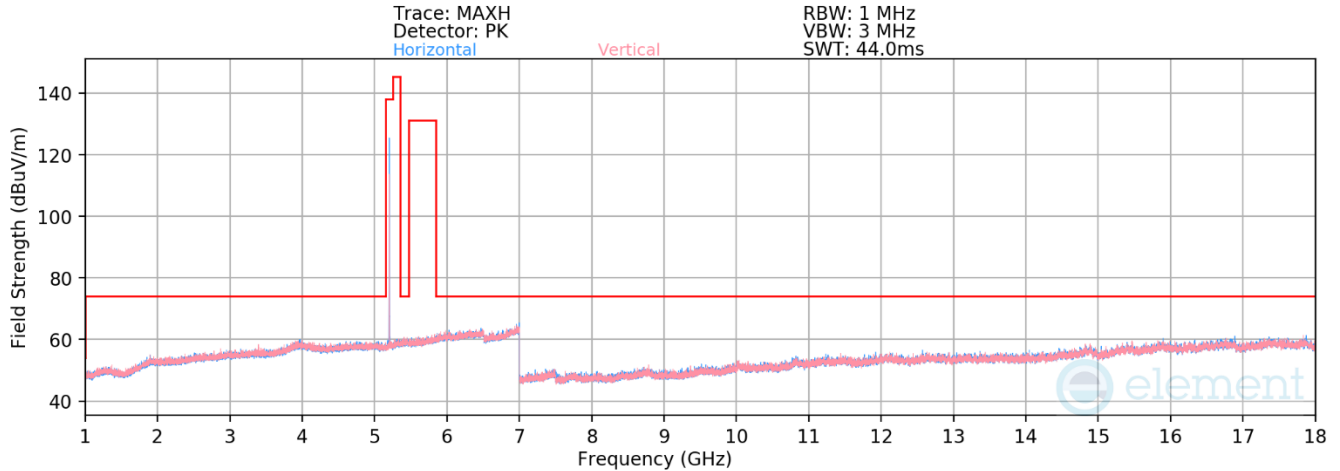
Plot 7-73. Radiated Spurious Emissions 1-18GHz TxBF (BDR – 5162MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10324.00	Peak	H	-	-	-71.29	14.08	49.79	68.20	-18.41
* 15486.00	Average	H	-	-	-83.94	20.83	43.89	53.98	-10.09
* 15486.00	Peak	H	-	-	-72.98	20.83	54.85	73.98	-19.13

Table 7-28. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 75 of 100



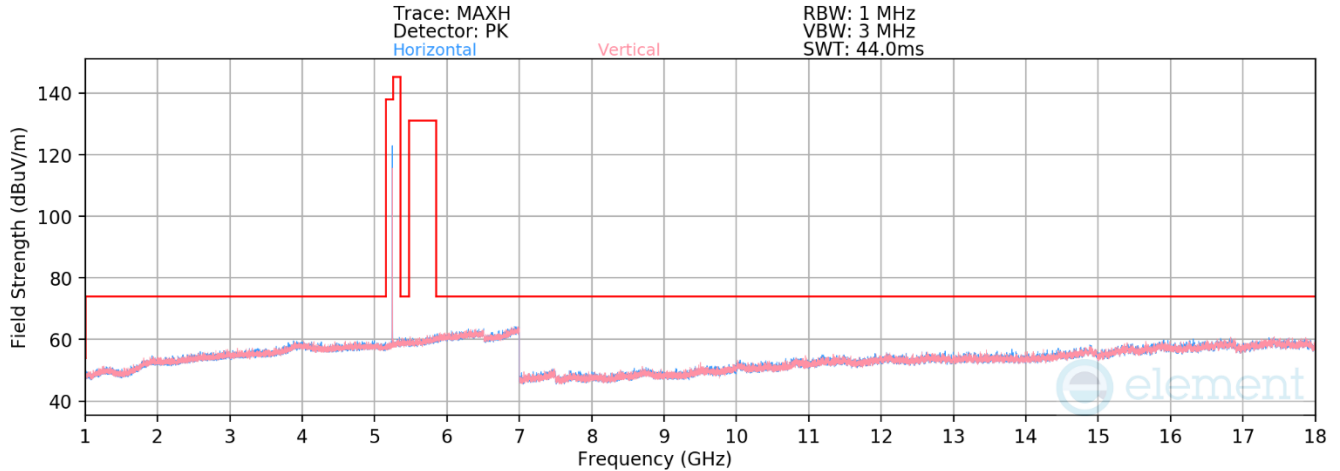
Plot 7-74. Radiated Spurious Emissions 1-18GHz TxBF (BDR - 5204MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5204MHz

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]
10408.00	Peak	H	-	-	-70.92	14.52	50.60	68.20	-17.60
* 15612.00	Average	H	-	-	-84.19	21.45	44.26	53.98	-9.72
* 15612.00	Peak	H	-	-	-73.24	21.45	55.21	73.98	-18.77

Table 7-29. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 76 of 100



Plot 7-75. Radiated Spurious Emissions 1-18GHz TxBF (BDR - 5245MHz)

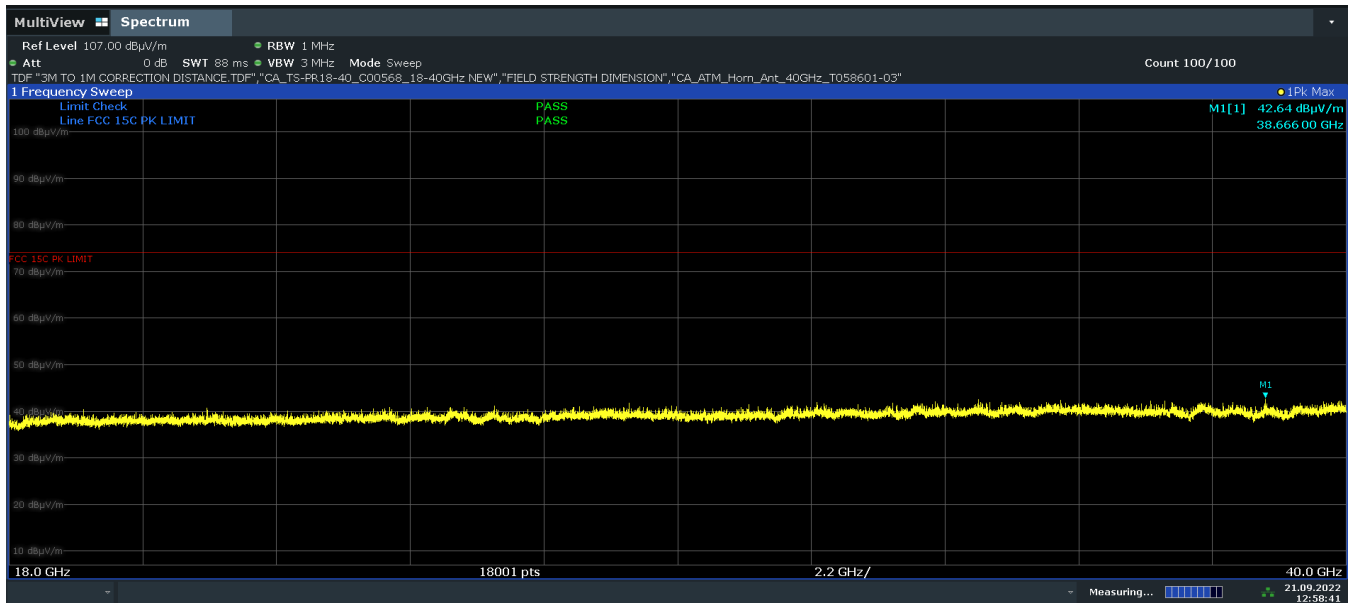
Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	H	-	-	-70.06	14.21	51.15	68.20	-17.05
* 15735.00	Average	H	-	-	-84.49	21.34	43.85	53.98	-10.13
* 15735.00	Peak	H	-	-	-73.24	21.34	55.10	73.98	-18.88

Table 7-30. Radiated Spurious Emissions Measurements TxBF

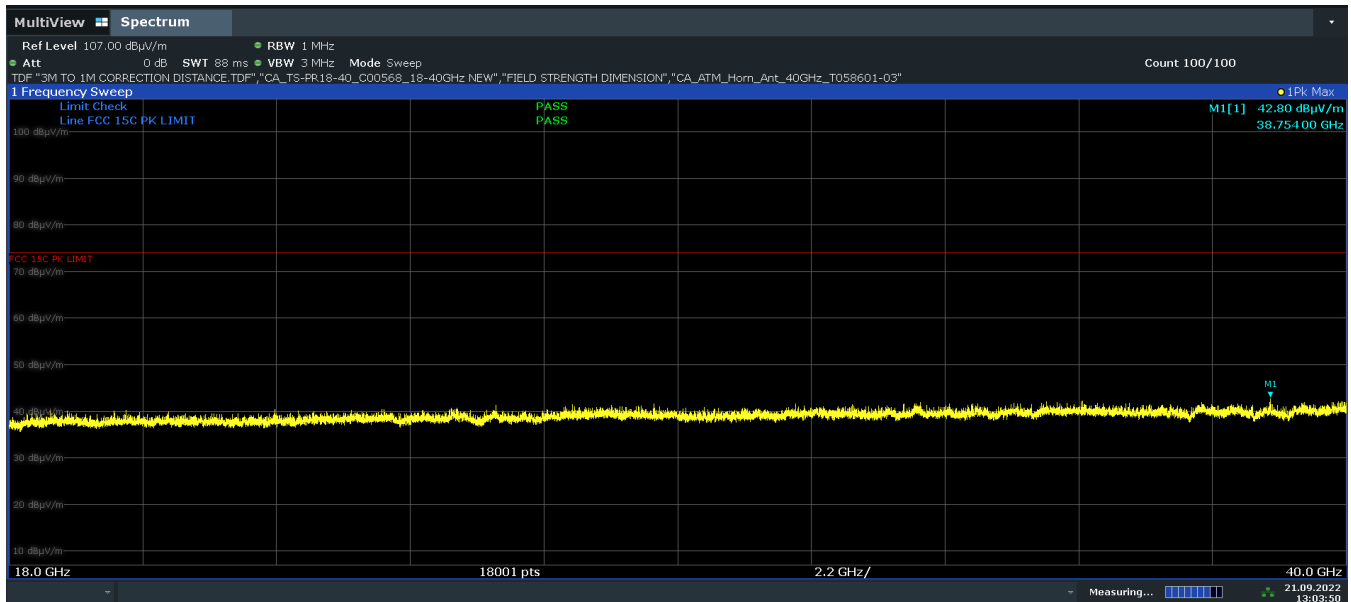
FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 77 of 100

Radiated Spurious Emission (Above 18GHz)



12:58:42 21.09.2022

Plot 7-76. Radiated Spurious Emissions Above 18GHz TxBF (BDR – 5204MHz Pol. H)



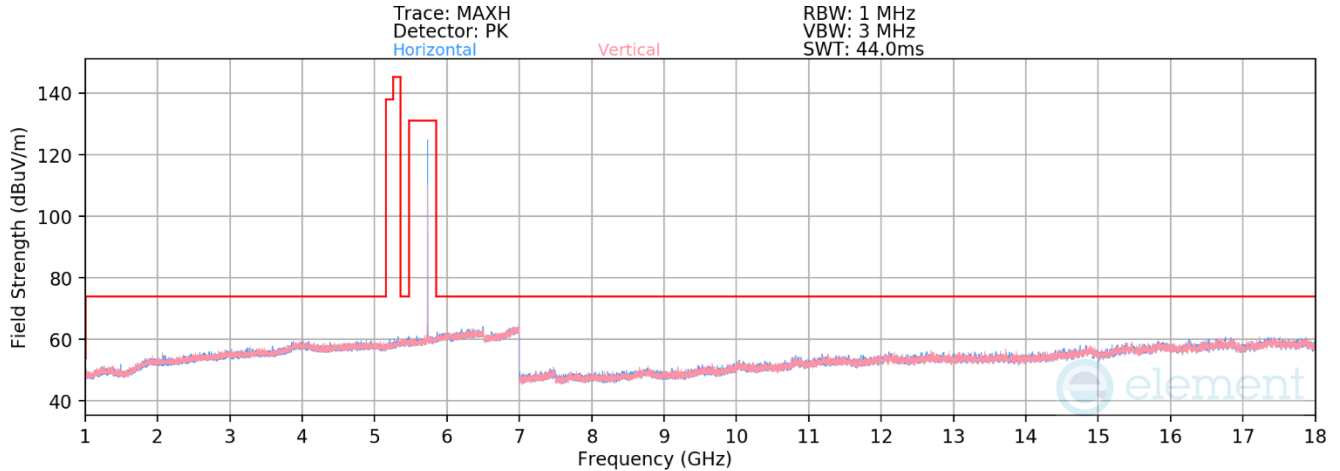
13:03:50 21.09.2022

Plot 7-77. Radiated Spurious Emissions Above 18GHz TxBF (BDR – 5204MHz Pol. V)

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device		Page 78 of 100

V 10.5 12/15/2021

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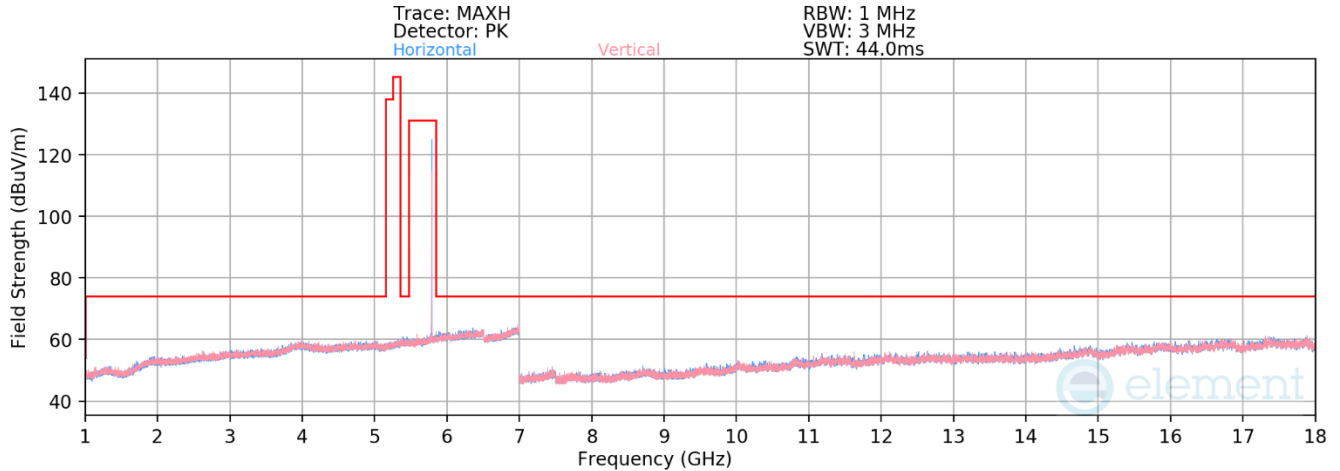
Plot 7-78. Radiated Spurious Emissions 1-18GHz TxBF (BDR - 5733MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5733MHz

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]
* 11466.00	Average	H	-	-	-83.54	16.46	39.92	53.98	-14.06
* 11466.00	Peak	H	-	-	-70.97	16.46	52.49	73.98	-21.49
17199.00	Peak	H	-	-	-72.85	22.82	56.97	68.20	-11.23

Table 7-31. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 79 of 100



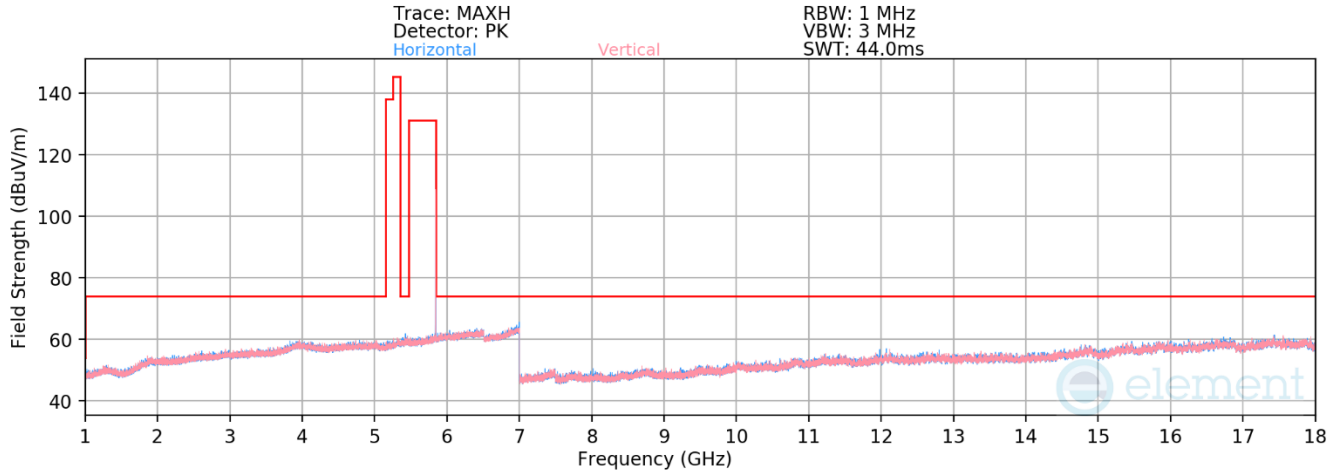
Plot 7-79. Radiated Spurious Emissions 1-18GHz TxBF (BDR – 5789MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5789MHz

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]
* 11578.00	Average	H	-	-	-83.27	17.00	40.73	53.98	-13.25
* 11578.00	Peak	H	-	-	-71.97	17.00	52.03	73.98	-21.95
17367.00	Peak	H	-	-	-72.56	23.44	57.88	68.20	-10.32

Table 7-32. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 80 of 100



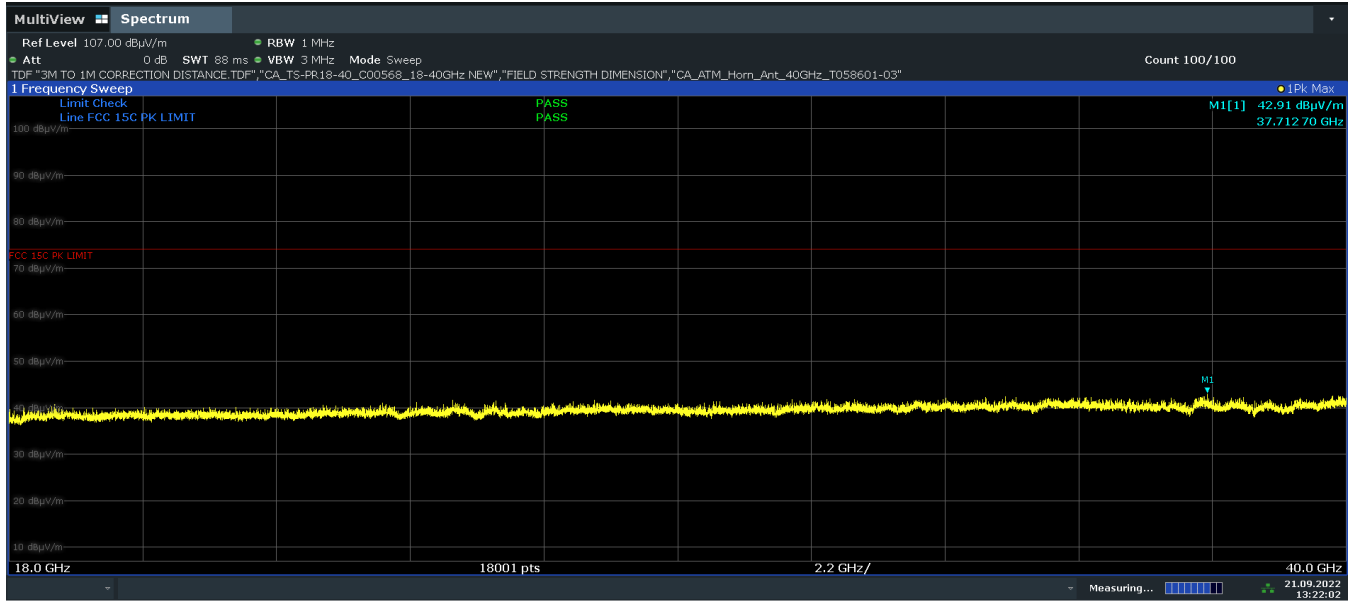
Plot 7-80. Radiated Spurious Emissions 1-18GHz TxBF (BDR - 5844MHz)

Mode: BDR
 Data Rate: 1Mbps
 Power Scheme: ePA
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 5426.00	Average	H	243	103	-72.41	17.25	51.84	53.98	-2.14
* 5426.00	Peak	H	243	165	-65.14	17.25	59.11	73.98	-14.87
* 11688.00	Average	H	-	-	-83.40	17.40	41.00	53.98	-12.98
* 11688.00	Peak	H	-	-	-72.12	17.40	52.28	73.98	-21.70
17532.00	Peak	H	-	-	-73.77	22.78	56.01	68.20	-12.19

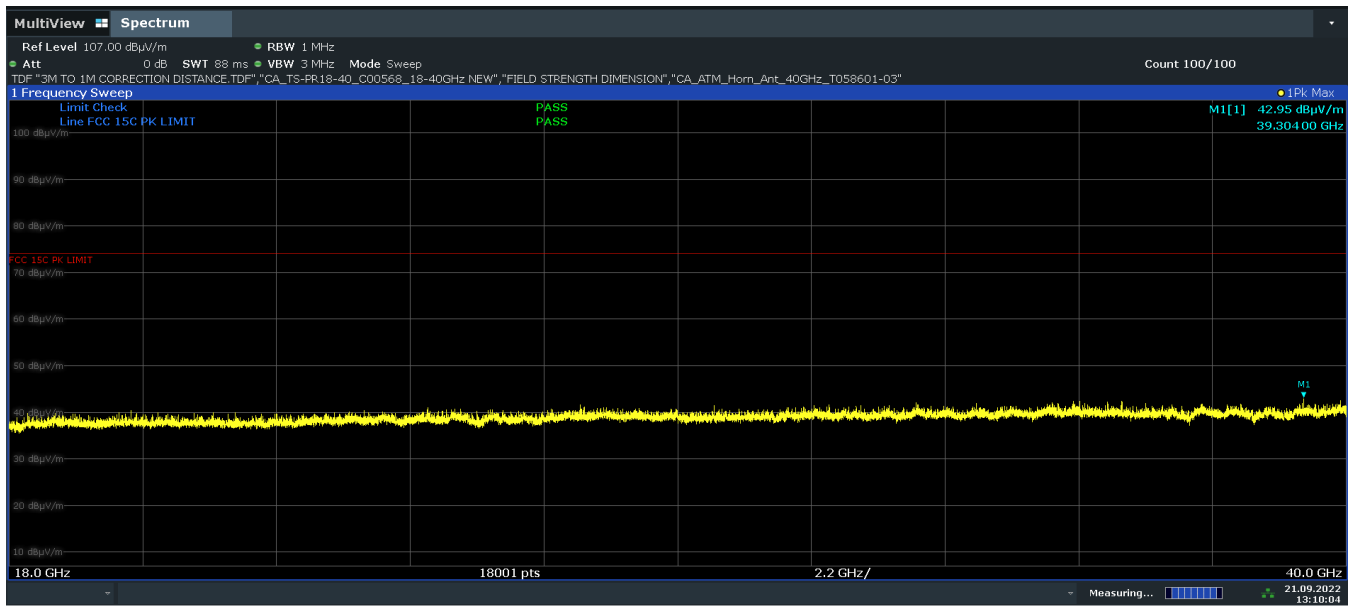
Table 7-33. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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13:22:02 21.09.2022

Plot 7-81. Radiated Spurious Emissions Above 18GHz TxBF (BDR – 5789MHz Pol. H)



13:10:05 21.09.2022

Plot 7-82. Radiated Spurious Emissions Above 18GHz TxBF (BDR – 5789MHz Pol. V)

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.4 Radiated Band Edge Measurements

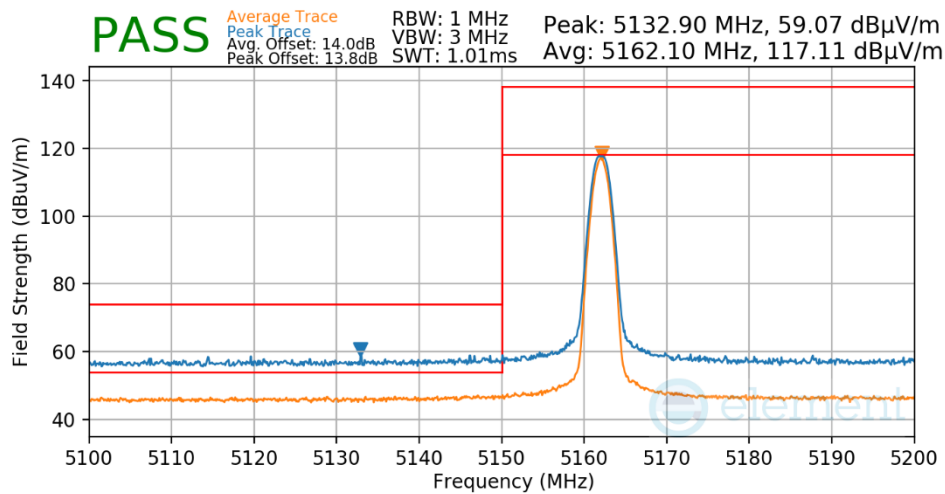
§15.407(b.1)(b.2) §15.205 §15.209

Antenna WF5T

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

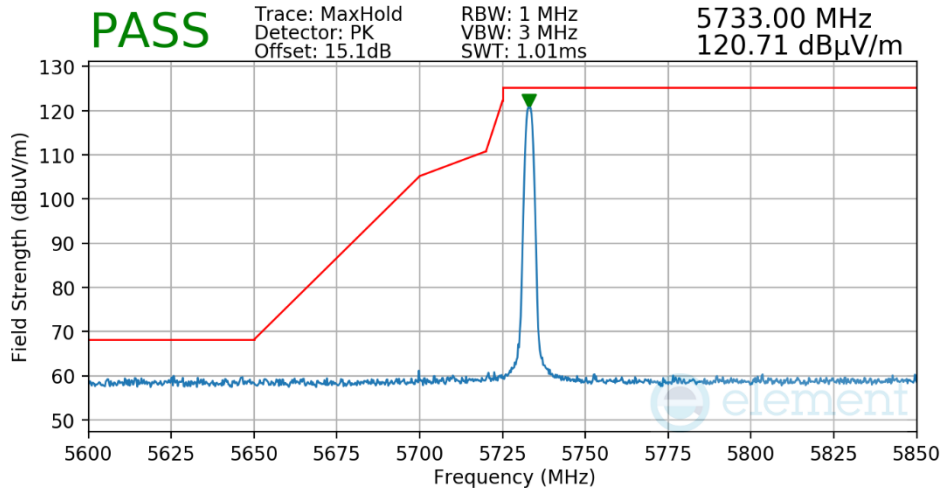
Mode:	BDR
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-83. Radiated Lower Band Edge Measurement Antenna WF5T

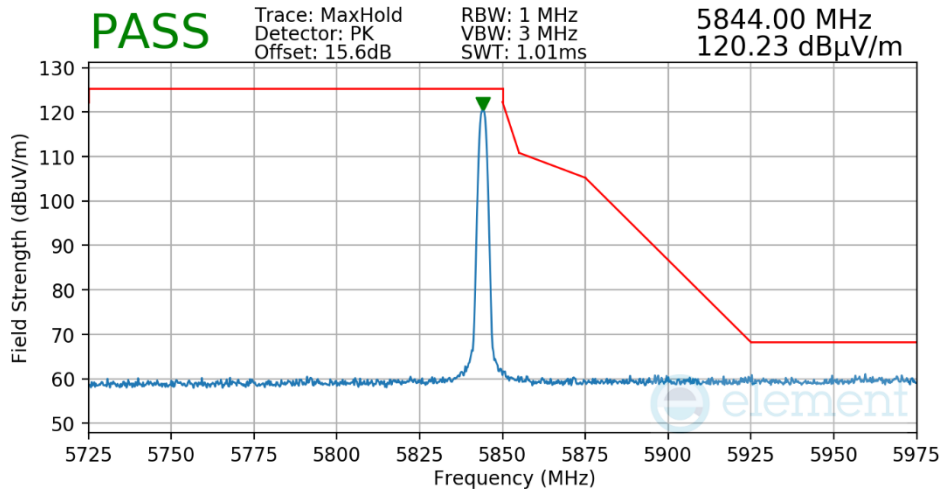
FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 83 of 100

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-84. Radiated Lower Band Edge Measurement Antenna WF5T

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-85. Radiated Upper Band Edge Measurement Antenna WF5T

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Radiated Band Edge Measurements
§15.407(b.1)(b.2) §15.205 §15.209

Antenna WF5B

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

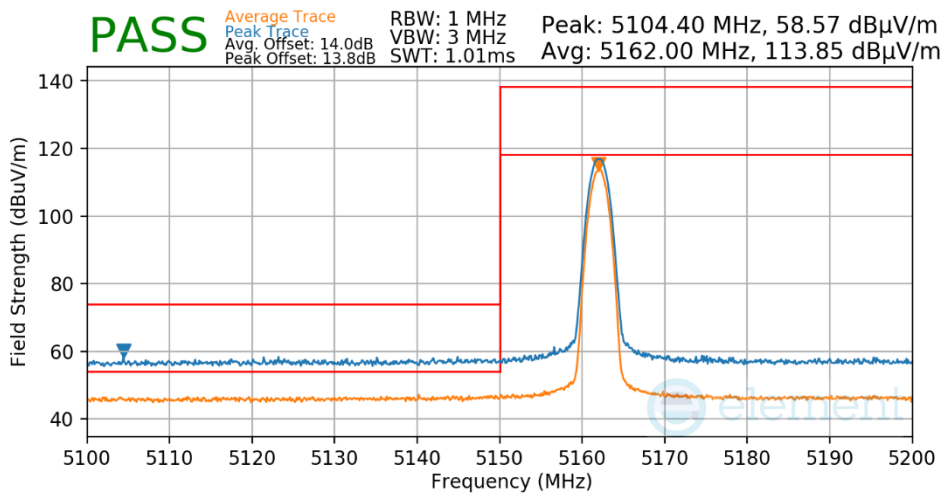
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode: BDR

Power Scheme: ePA

Measurement Distance: 3 Meters

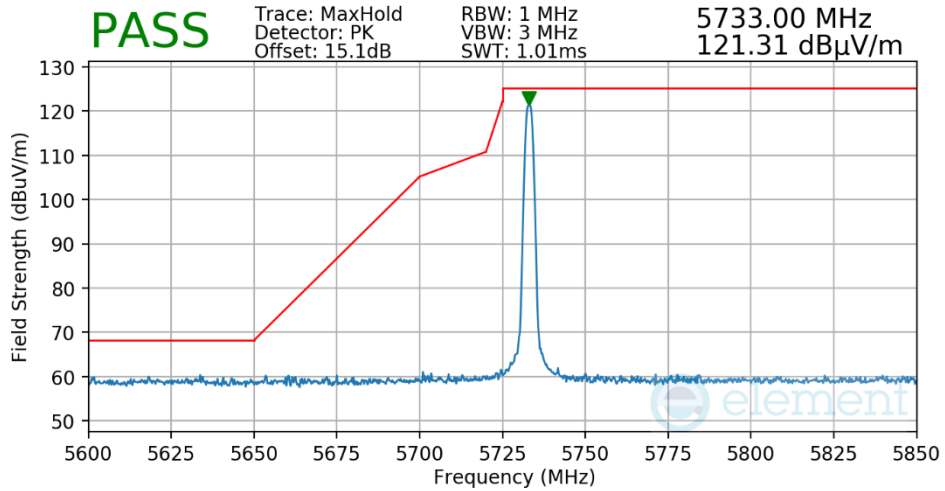
Operating Frequency: 5162MHz



Plot 7-86. Radiated Lower Band Edge Measurement Antenna WF5B

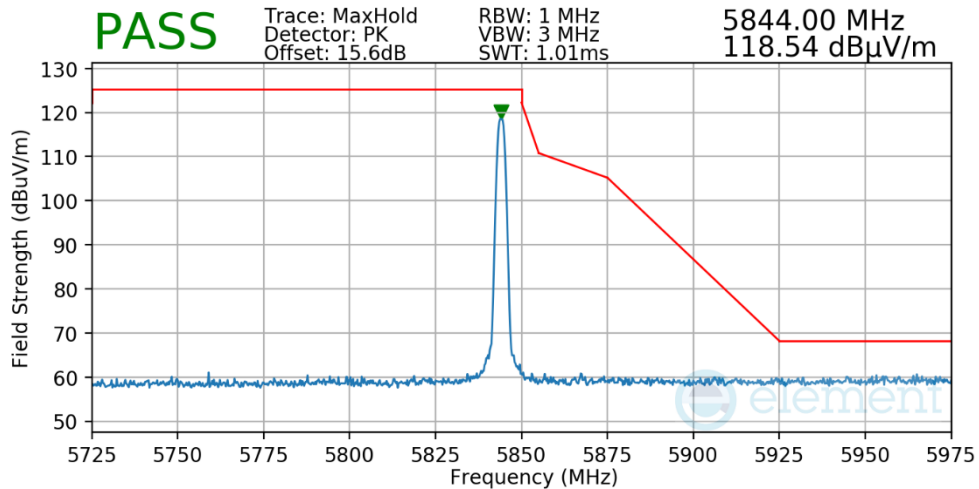
FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 85 of 100	

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-87. Radiated Lower Band Edge Measurement Antenna WF5B

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-88. Radiated Upper Band Edge Measurement Antenna WF5B

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Radiated Band Edge Measurements
§15.407(b.1)(b.2) §15.205 §15.209

TxBF

The amplitude offset shown in the following plots for average measurements was calculated using the formula:

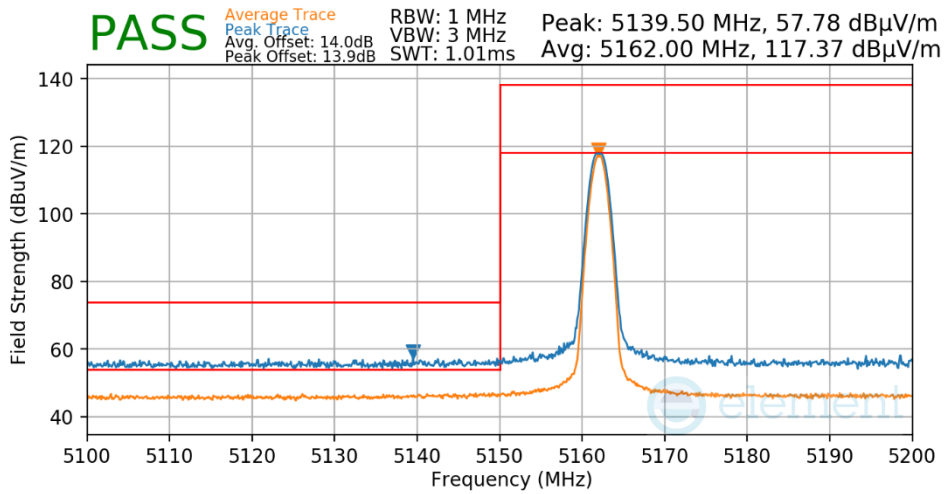
$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + \text{Attenuator}) - \text{Preamplifier Gain}$$

Mode: BDR

Power Scheme: ePA

Measurement Distance: 3 Meters

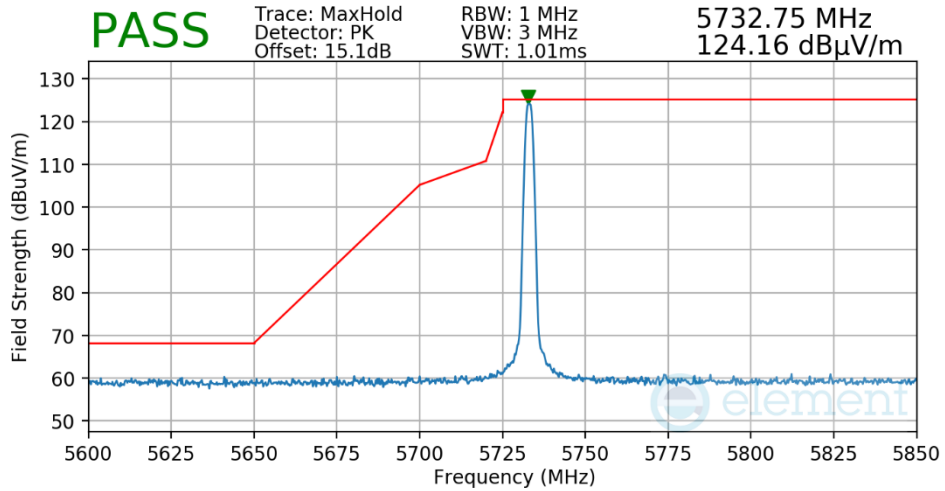
Operating Frequency: 5162MHz



Plot 7-89. Radiated Lower Band Edge Measurement TxBF

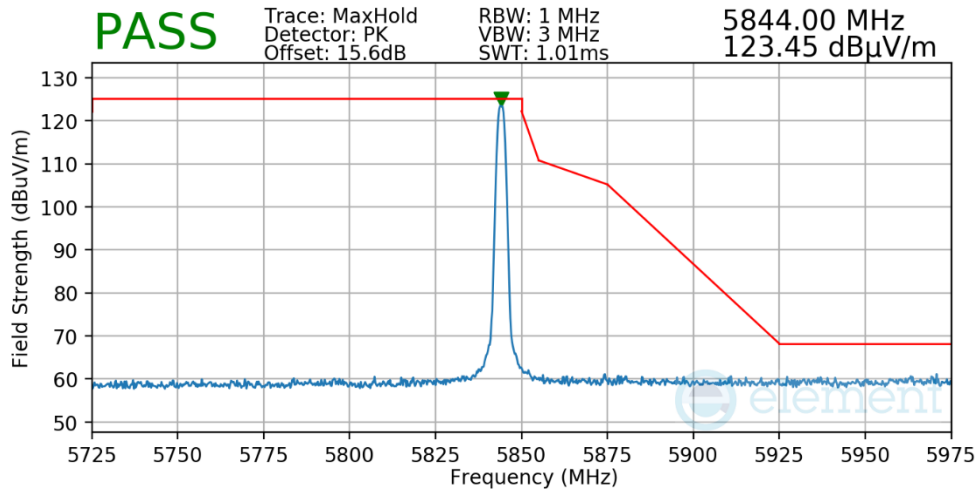
FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 87 of 100	

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-90. Radiated Lower Band Edge Measurement TxBF

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-91. Radiated Upper Band Edge Measurement TxBF

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 88 of 100

7.7 Radiated Spurious Emissions – Below 1GHz

§15.209

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 must not exceed the limits shown in Table 7-34 per Section 15.209.

Frequency	Field Strength [$\mu\text{V}/\text{m}$]	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 7-34. 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

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. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. 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.

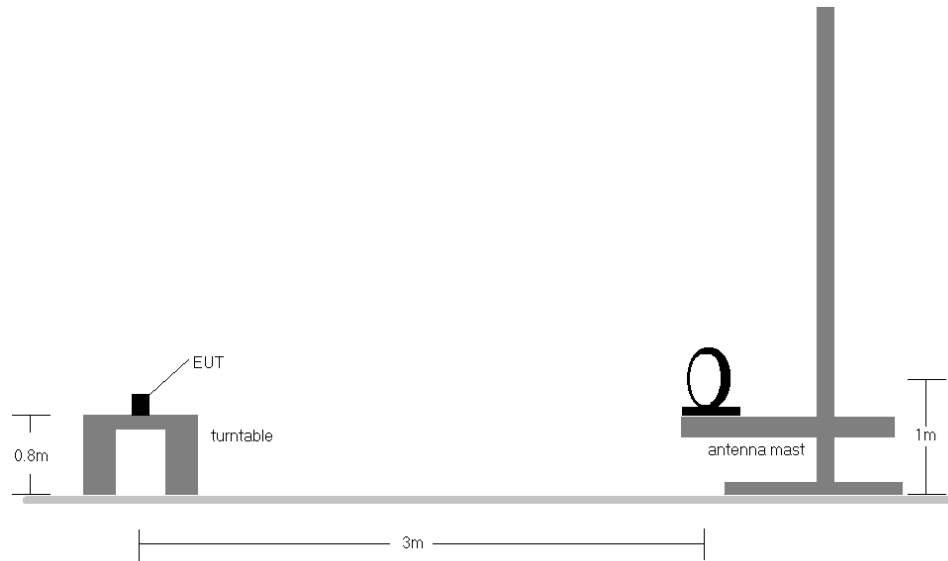


Figure 7-6. Radiated Test Setup < 30MHz

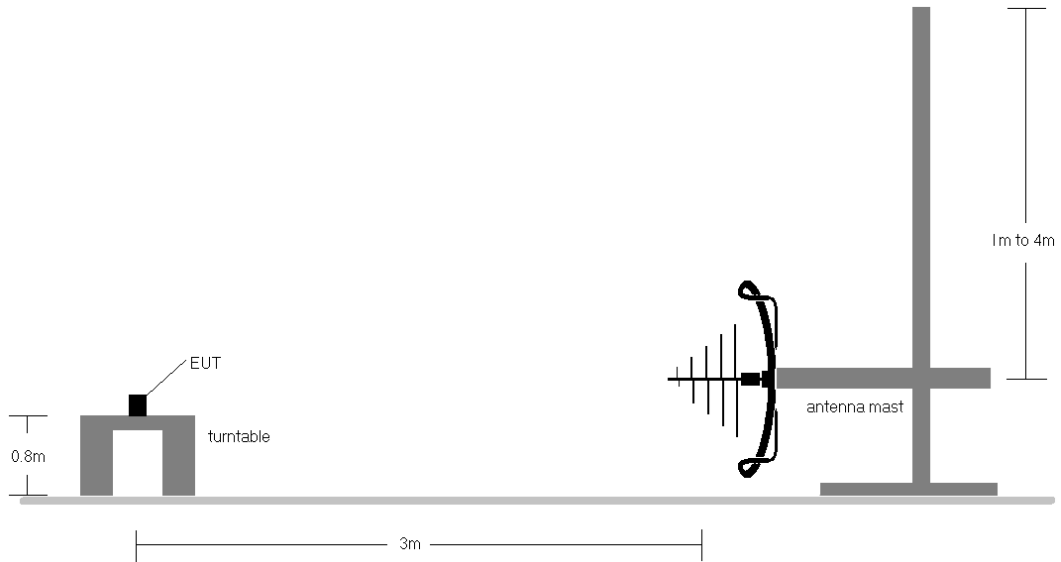


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-34.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
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 for emissions within 6dB of the limit.
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. All supported modulation, antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
10. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger

Sample Calculations

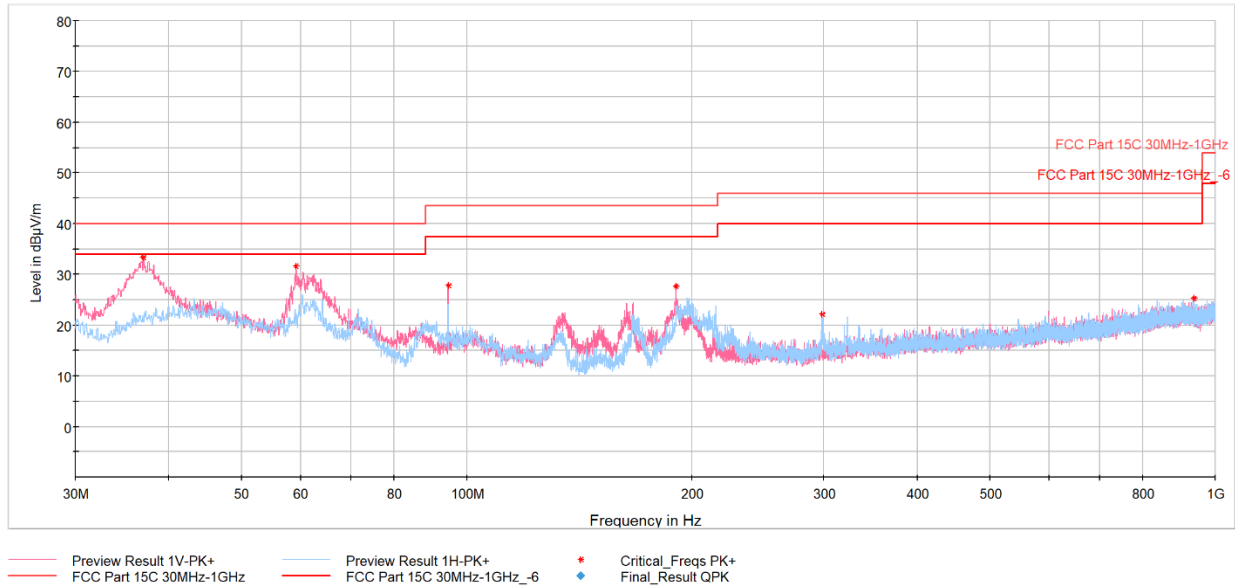
Determining Spurious Emissions Levels

- Field Strength Level $_{[dB_{\mu V/m}]}$ = Analyzer Level $_{[dBm]}$ + 107 + AFCL $_{[dB/m]}$
- AFCL $_{[dB/m]}$ = Antenna Factor $_{[dB/m]}$ + Cable Loss $_{[dB]}$ – Preamplifier Gain $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB_{\mu V/m}]}$ – Limit $_{[dB_{\mu V/m}]}$

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TxBF Radiated Spurious Emissions (Below 1GHz)

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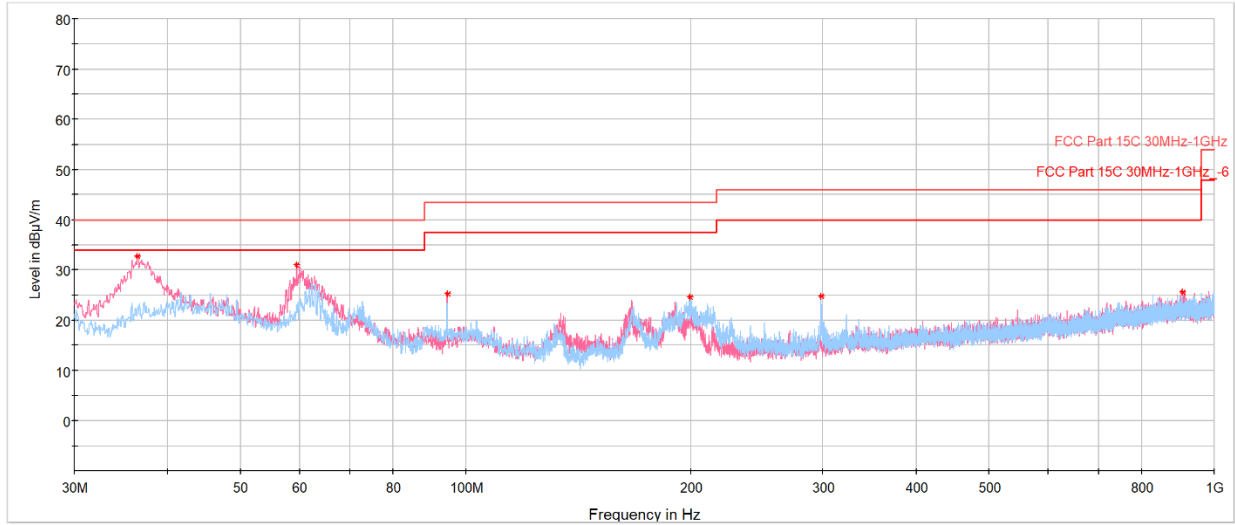


Plot 7-92. RSE 30MHz - 1GHz TxBF (BDR GFSK ePA – 5204MHz), with AC/DC Adapter

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]
36.98	Max-Peak	V	100	41	-55.40	-18.22	33.38	40.00	-6.62
59.15	Max-Peak	V	100	15	-58.57	-16.76	31.67	40.00	-8.33
94.51	Max-Peak	V	100	222	-60.12	-19.05	27.83	43.52	-15.69
190.24	Max-Peak	V	100	41	-60.86	-18.43	27.71	43.52	-15.81
298.35	Max-Peak	H	100	121	-69.31	-15.46	22.23	46.02	-23.79
935.30	Max-Peak	H	100	348	-77.26	-4.36	25.38	46.02	-20.64

Table 7-35. RSE 30MHz - 1GHz TxBF (BDR GFSK ePA – 5204MHz), with AC/DC Adapter

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— Preview Result 1V-PK+ FCC Part 15C 30MHz-1GHz
 — Preview Result 1H-PK+ FCC Part 15C 30MHz-1GHz_-6
 * Critical_Freqs PK+
 ◆ Final_Result QPK

Plot 7-93. RSE 30MHz - 1GHz Tx BF (BDR GFSK ePA – 5789MHz), with AC/DC Adapter

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]
36.45	Max-Peak	V	100	314	-55.95	-18.34	32.71	40.00	-7.29
59.49	Max-Peak	V	100	15	-59.24	-16.82	30.94	40.00	-9.06
94.51	Max-Peak	V	100	212	-62.71	-19.05	25.24	43.52	-18.28
199.36	Max-Peak	H	100	198	-64.71	-17.60	24.69	43.52	-18.83
298.40	Max-Peak	H	100	134	-66.79	-15.46	24.75	46.02	-21.27
905.72	Max-Peak	H	300	355	-77.03	-4.34	25.63	46.02	-20.39

Table 7-36. RSE 30MHz - 1GHz Tx BF (BDR GFSK ePA – 5789MHz), with AC/DC Adapter

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8 AC Line Conducted Emissions Measurement §15.207

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 AC Line conducted spurious emissions. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

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 7-37. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak 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 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.

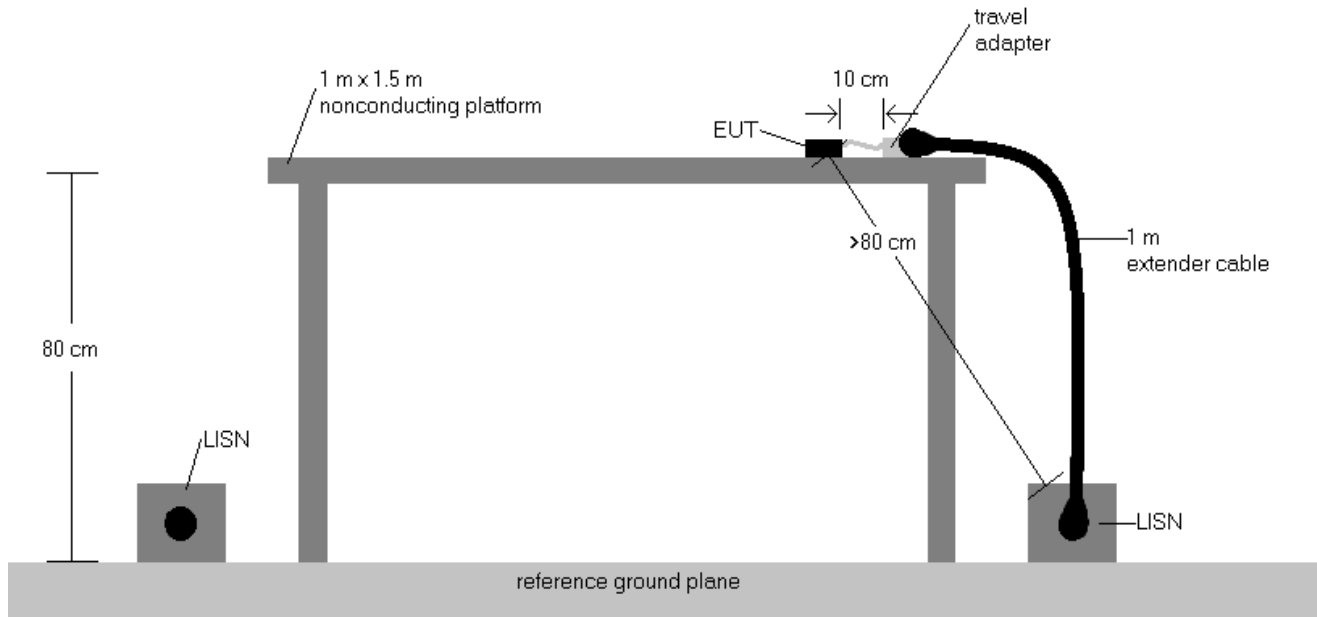


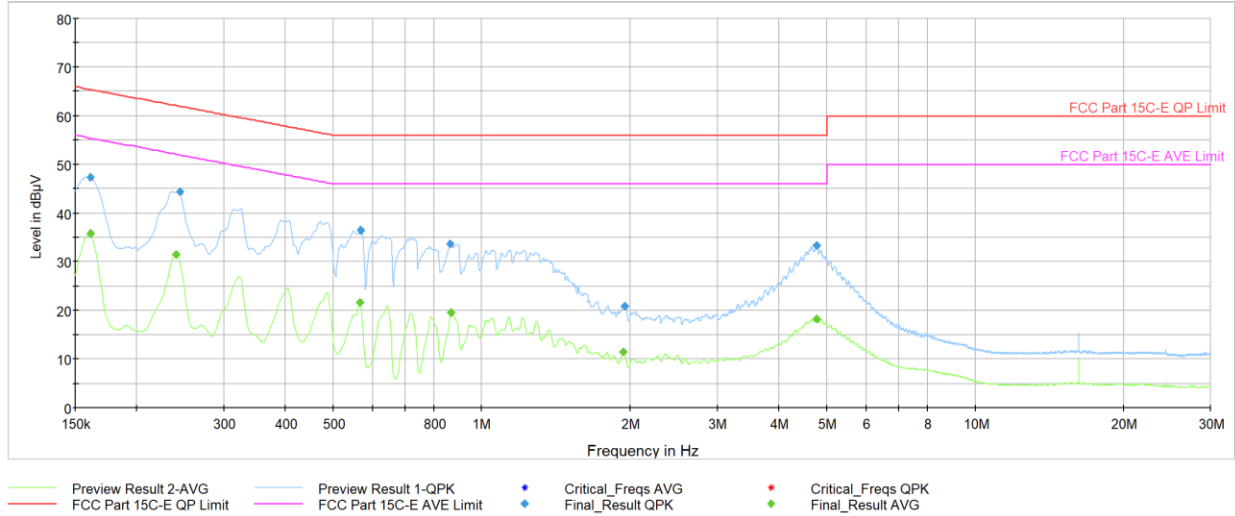
Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207.
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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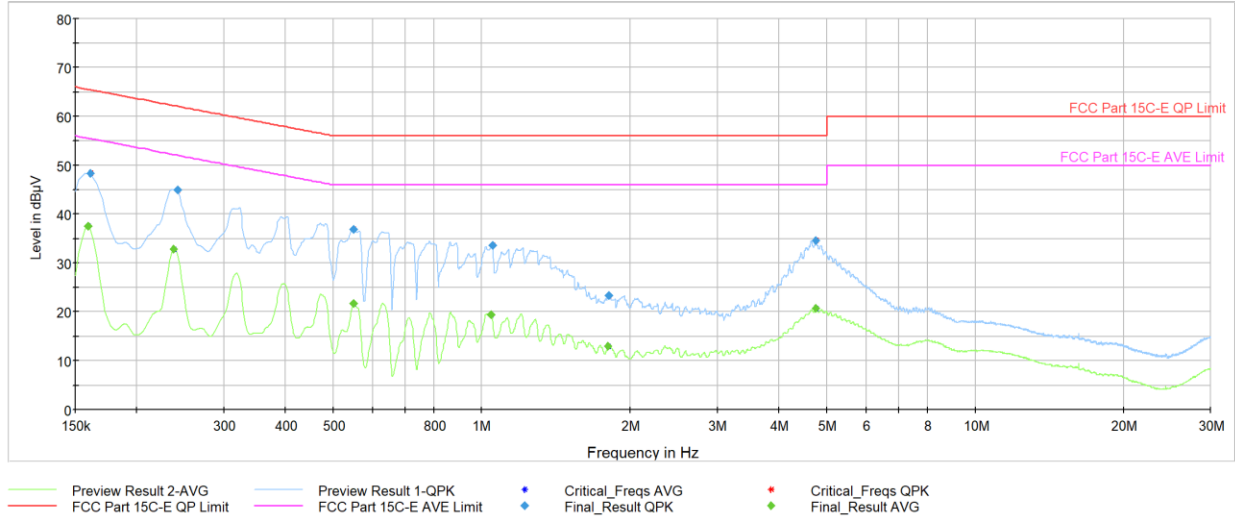


Plot 7-94. AC Line Conducted Plot (BDR GFSK ePA – 5204MHz) (L1) with AC/DC Adapter.

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	—	35.82	55.40	-19.58	L1	GND
0.161	FINAL	47.39	—	65.40	-18.01	L1	GND
0.240	FINAL	—	31.58	52.10	-20.51	L1	GND
0.245	FINAL	44.32	—	61.94	-17.62	L1	GND
0.566	FINAL	—	21.74	46.00	-24.26	L1	GND
0.569	FINAL	36.50	—	56.00	-19.50	L1	GND
0.863	FINAL	33.67	—	56.00	-22.33	L1	GND
0.868	FINAL	—	19.50	46.00	-26.50	L1	GND
1.934	FINAL	—	11.42	46.00	-34.58	L1	GND
1.946	FINAL	20.84	—	56.00	-35.16	L1	GND
4.765	FINAL	—	18.29	46.00	-27.71	L1	GND
4.765	FINAL	33.40	—	56.00	-22.60	L1	GND

Table 7-38. AC Line Conducted (BDR GFSK ePA – 5204MHz) (L1) with AC/DC Adapter

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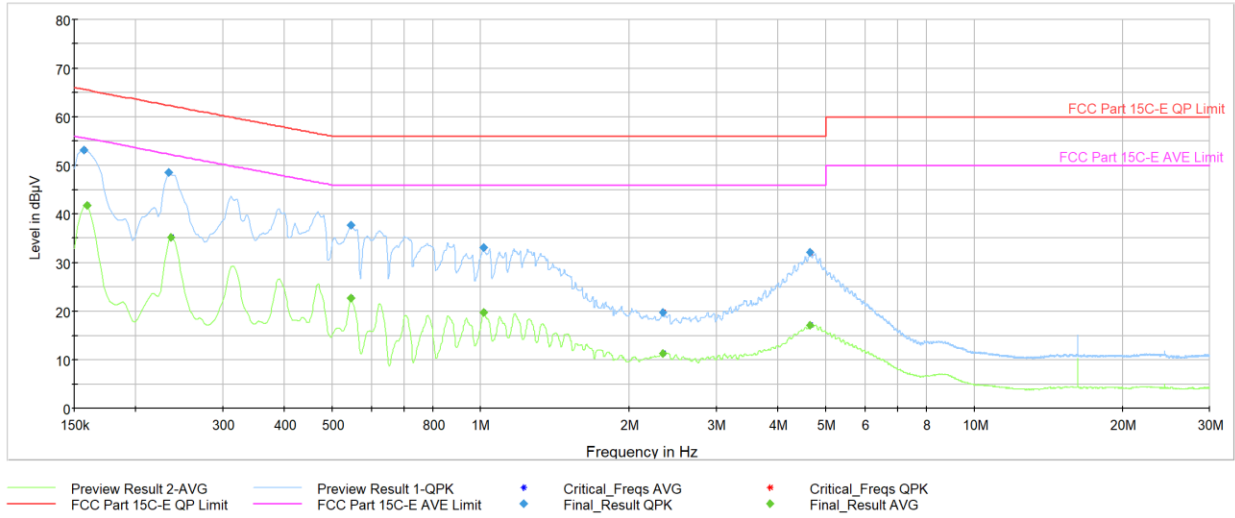


Plot 7-95. AC Line Conducted Plot (BDR GFSK ePA – 5204MHz) (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.159	FINAL	—	37.59	55.52	-17.92	N	GND
0.161	FINAL	48.33	—	65.40	-17.07	N	GND
0.238	FINAL	—	32.72	52.17	-19.45	N	GND
0.242	FINAL	44.92	—	62.02	-17.10	N	GND
0.551	FINAL	36.83	—	56.00	-19.17	N	GND
0.551	FINAL	—	21.58	46.00	-24.42	N	GND
1.043	FINAL	—	19.36	46.00	-26.64	N	GND
1.052	FINAL	33.67	—	56.00	-22.33	N	GND
1.799	FINAL	—	12.97	46.00	-33.03	N	GND
1.804	FINAL	23.32	—	56.00	-32.68	N	GND
4.745	FINAL	34.56	—	56.00	-21.44	N	GND
4.756	FINAL	—	20.59	46.00	-25.41	N	GND

Table 7-39. AC Line Conducted (BDR GFSK ePA – 5204MHz) (N) with AC/DC Adapter

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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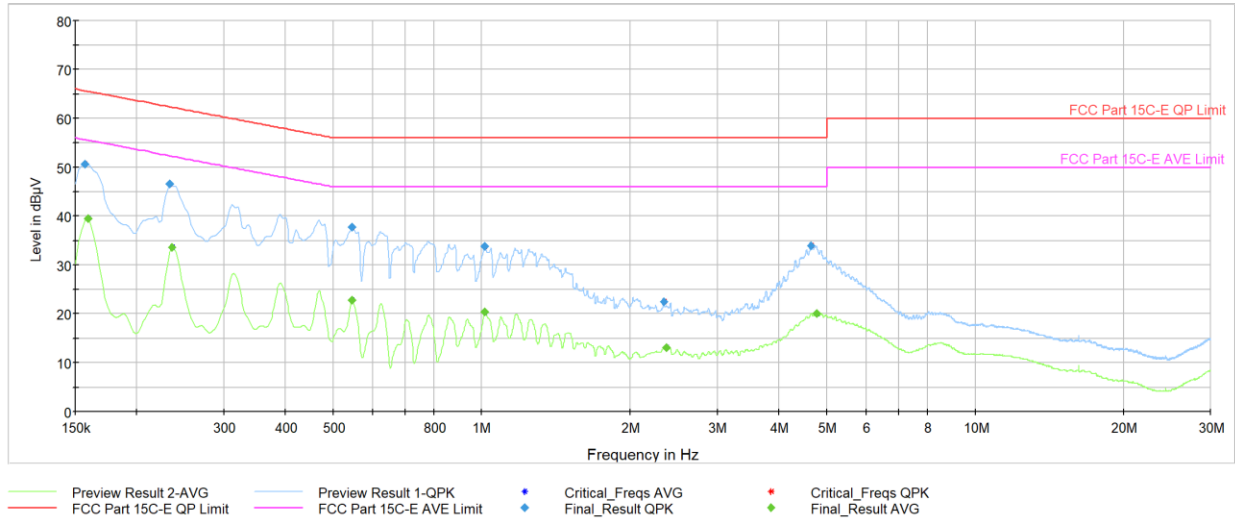


Plot 7-96. AC Line Conducted Plot (BDR GFSK ePA – 5789MHz) (L1) with AC/DC Adapter.

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	53.24	—	65.63	-12.39	L1	GND
0.159	FINAL	—	41.85	55.52	-13.67	L1	GND
0.233	FINAL	48.52	—	62.33	-13.82	L1	GND
0.236	FINAL	—	35.29	52.25	-16.97	L1	GND
0.546	FINAL	—	22.69	46.00	-23.31	L1	GND
0.546	FINAL	37.71	—	56.00	-18.29	L1	GND
1.012	FINAL	33.15	—	56.00	-22.85	L1	GND
1.014	FINAL	—	19.78	46.00	-26.22	L1	GND
2.335	FINAL	19.78	—	56.00	-36.22	L1	GND
2.339	FINAL	—	11.43	46.00	-34.57	L1	GND
4.639	FINAL	32.02	—	56.00	-23.98	L1	GND
4.643	FINAL	—	17.20	46.00	-28.80	L1	GND

Table 7-40. AC Line Conducted (BDR GFSK ePA – 5789MHz) (L1) with AC/DC Adapter

FCC ID: BCGA2759			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 98 of 100	



Plot 7-97. AC Line Conducted Plot (BDR GFSK ePA – 5789MHz) (N) with AC/DC Adapter.

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.157	FINAL	50.6	—	65.63	-15.00	N	GND
0.159	FINAL	—	39.43	55.52	-16.09	N	GND
0.233	FINAL	46.6	—	62.33	-15.75	N	GND
0.236	FINAL	—	33.53	52.25	-18.72	N	GND
0.546	FINAL	—	22.83	46.00	-23.17	N	GND
0.546	FINAL	37.6	—	56.00	-18.37	N	GND
1.014	FINAL	33.9	—	56.00	-22.15	N	GND
1.014	FINAL	—	20.36	46.00	-25.64	N	GND
2.335	FINAL	22.4	—	56.00	-33.62	N	GND
2.360	FINAL	—	13.18	46.00	-32.82	N	GND
4.646	FINAL	34.0	—	56.00	-22.05	N	GND
4.765	FINAL	—	20.07	46.00	-25.93	N	GND

Table 7-41. AC Line Conducted (BDR GFSK ePA – 5789MHz) (N) with AC/DC Adapter

FCC ID: BCGA2759		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 99 of 100	

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2759** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: BCGA2759	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090024-06-R1.BCG	Test Dates: 6/7/2022-9/26/2022	EUT Type: Tablet Device	Page 100 of 100

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