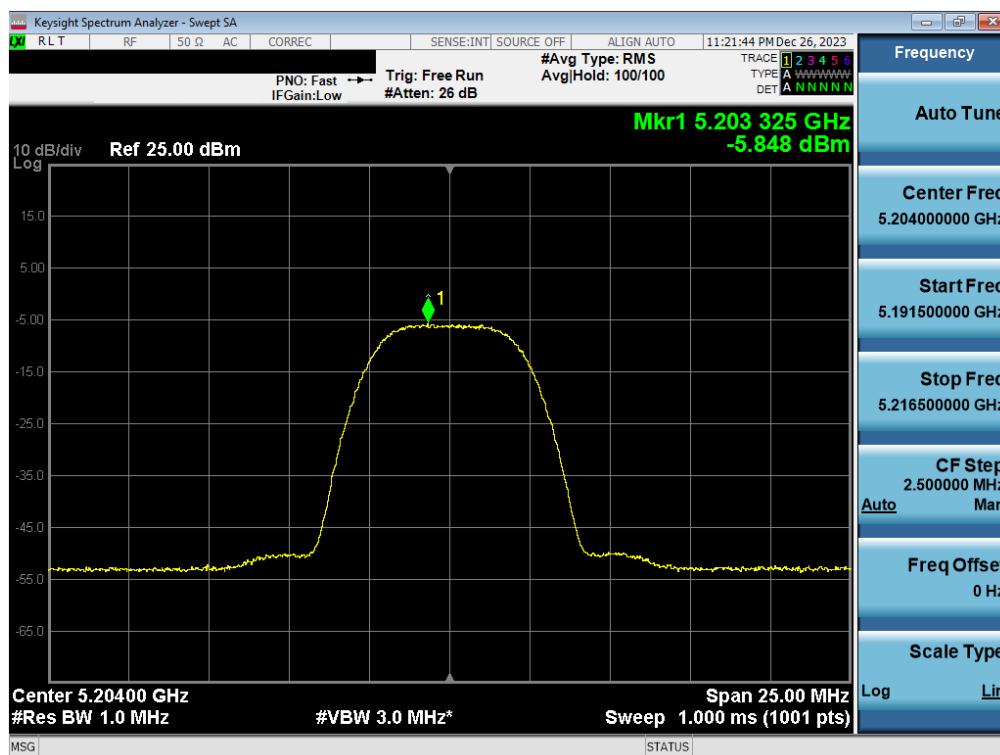
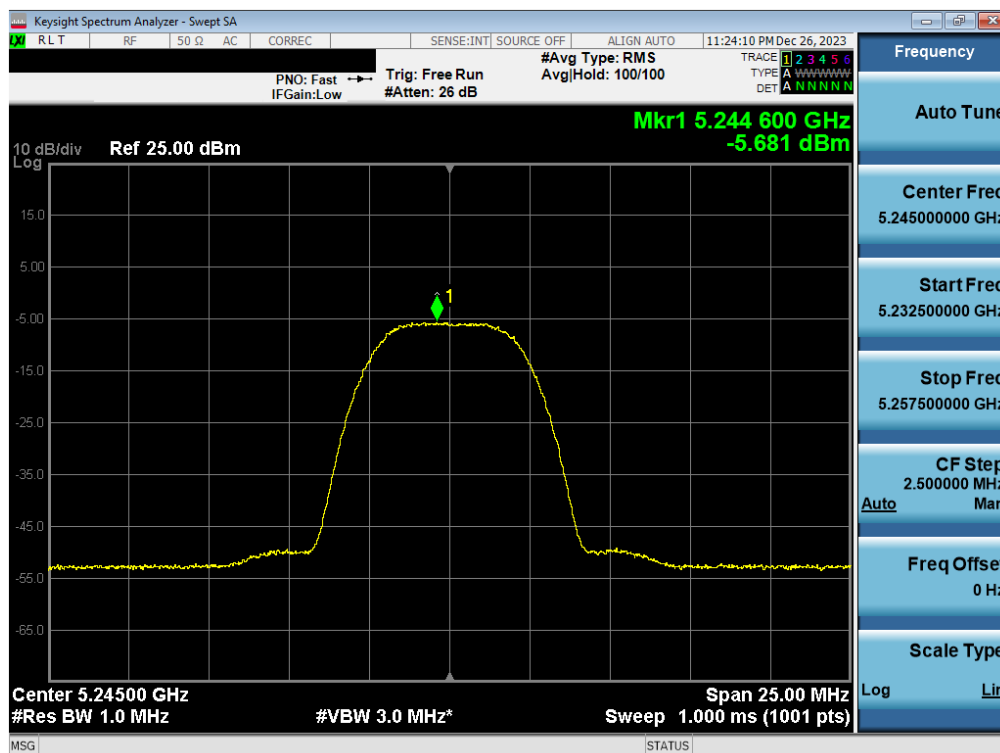




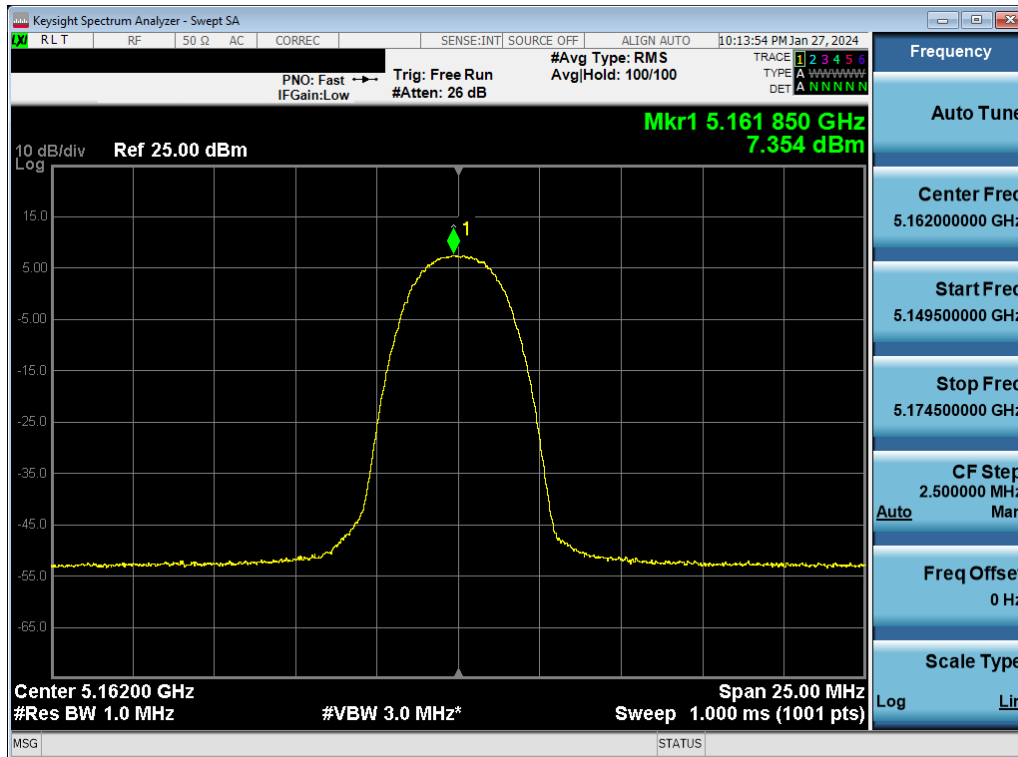
Plot 7-101. FCC/ISED PSD Antenna WF7b (HDR8, iPA – 5204MHz)



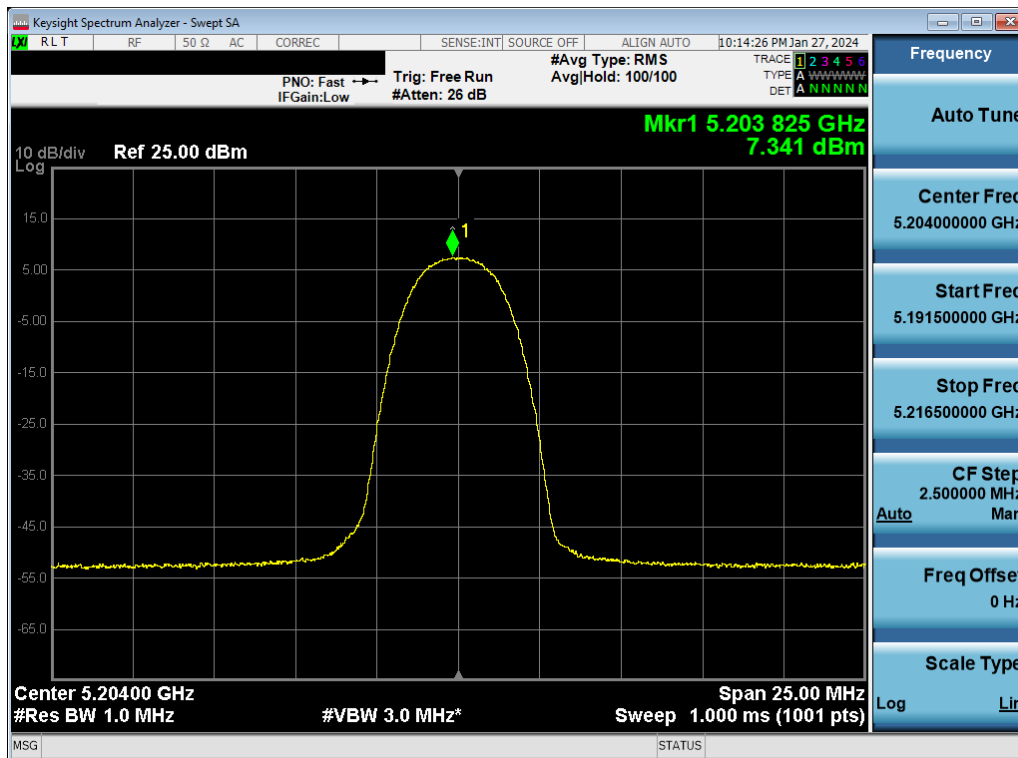
Plot 7-102. FCC/ISED PSD Antenna WF7b (HDR8, iPA– 5245MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 90 of 185

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Plot 7-103. ISED PSD Antenna WF7b (HDR4, ePA – 5162MHz)

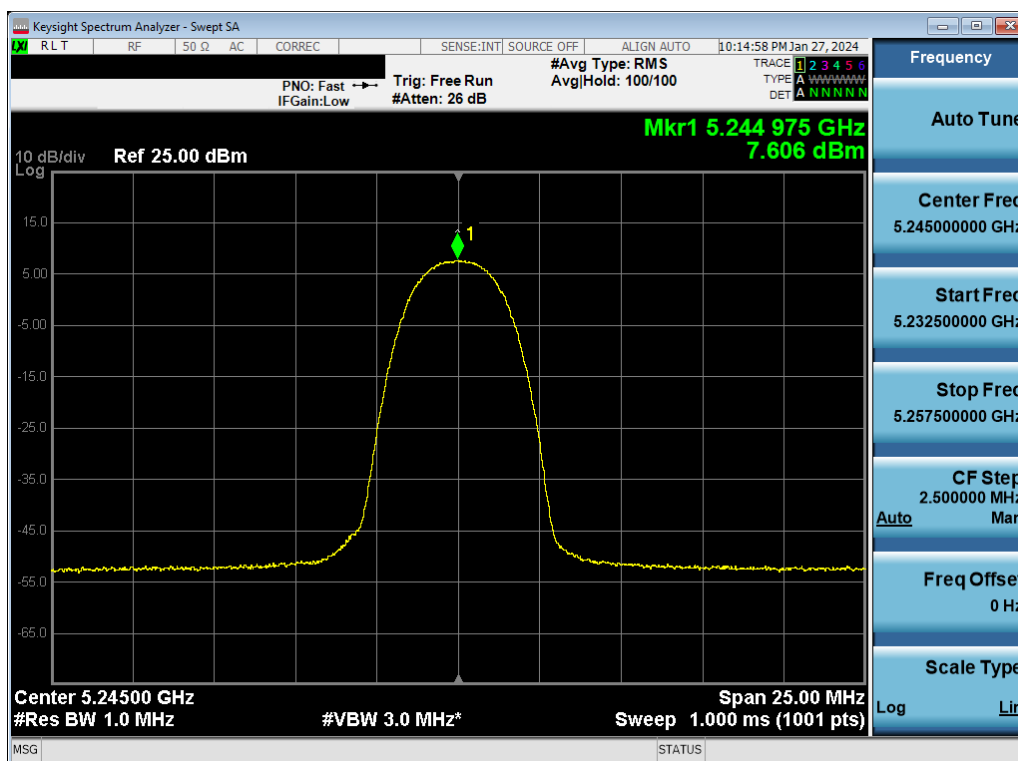


Plot 7-104. ISED PSD Antenna WF7b (HDR4, ePA – 5204MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 91 of 185

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Plot 7-105. ISED PSD Antenna WF7b (HDR4, ePA- 5245MHz)

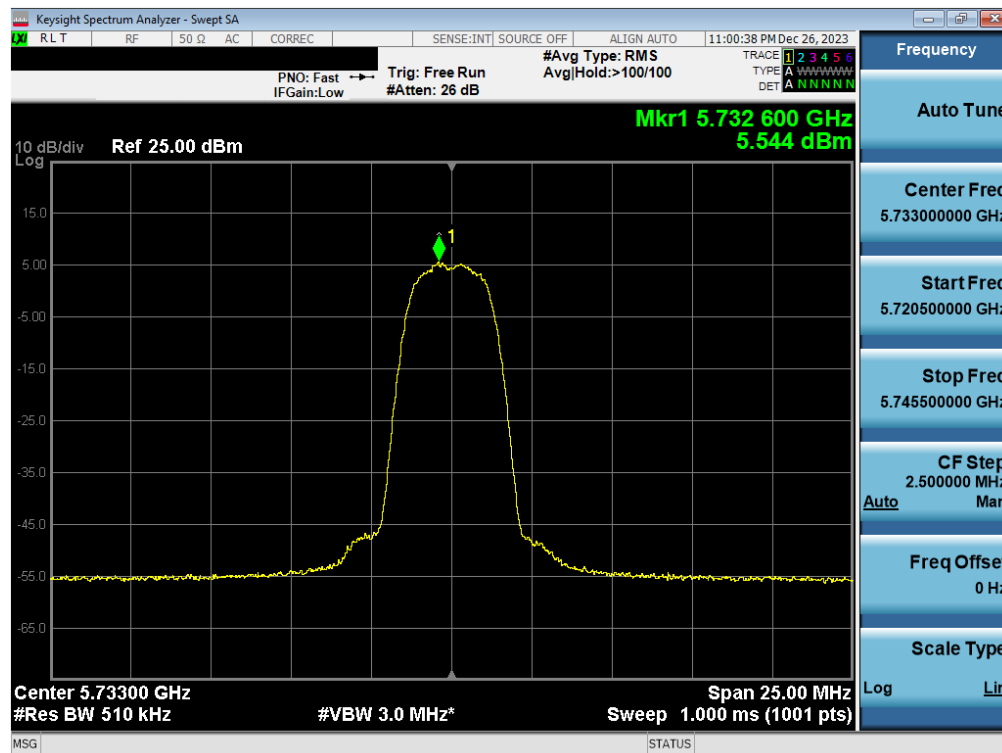
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 92 of 185

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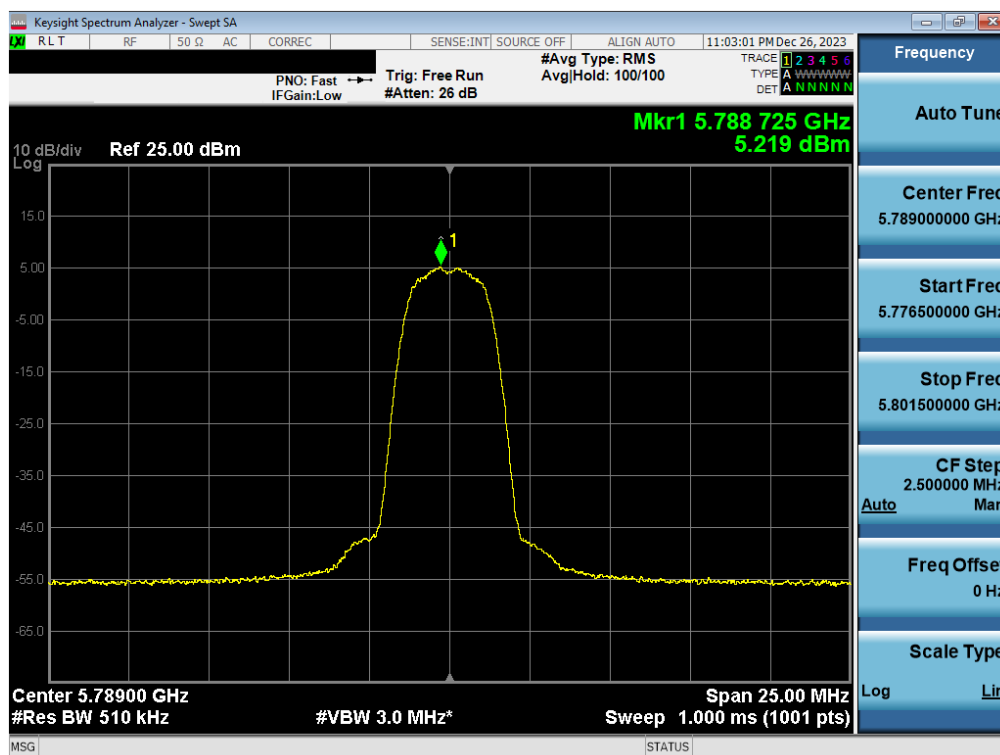
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Measured Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5733	4.0	HDR4	ePA	5.54	30.00	-24.46
	5789	4.0	HDR4	ePA	5.22	30.00	-24.78
	5844	4.0	HDR4	ePA	5.36	30.00	-24.64
	5733	4.0	HDR4	iPA	-5.60	30.00	-35.60
	5789	4.0	HDR4	iPA	-6.03	30.00	-36.03
	5844	4.0	HDR4	iPA	-5.88	30.00	-35.88
	5733	8.0	HDR8	ePA	2.68	30.00	-27.32
	5789	8.0	HDR8	ePA	1.90	30.00	-28.10
	5844	8.0	HDR8	ePA	2.12	30.00	-27.88
	5733	8.0	HDR8	iPA	-8.92	30.00	-38.92
	5789	8.0	HDR8	iPA	-8.98	30.00	-38.98
	5844	8.0	HDR8	iPA	-8.66	30.00	-38.66

Table 7-24. Power Spectral Density Measurements Antenna WF7b

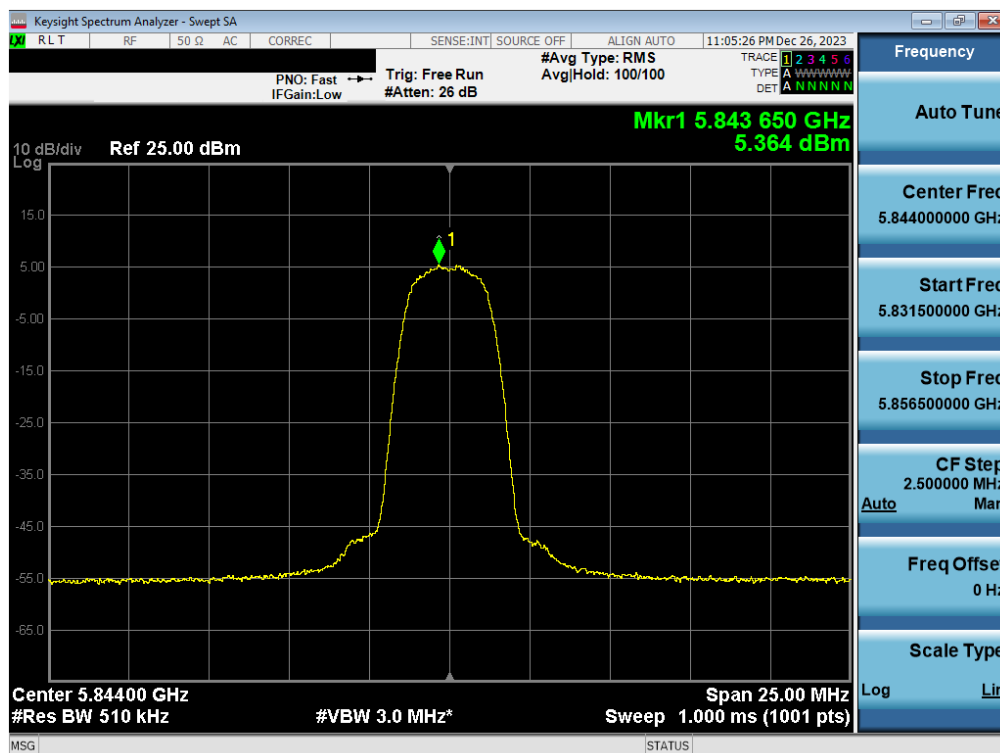


Plot 7-106. PSD Antenna WF7b (HDR4, ePA 5733MHz)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 93 of 185



Plot 7-107. PSD Antenna WF7b (HDR4, ePA 5789MHz)

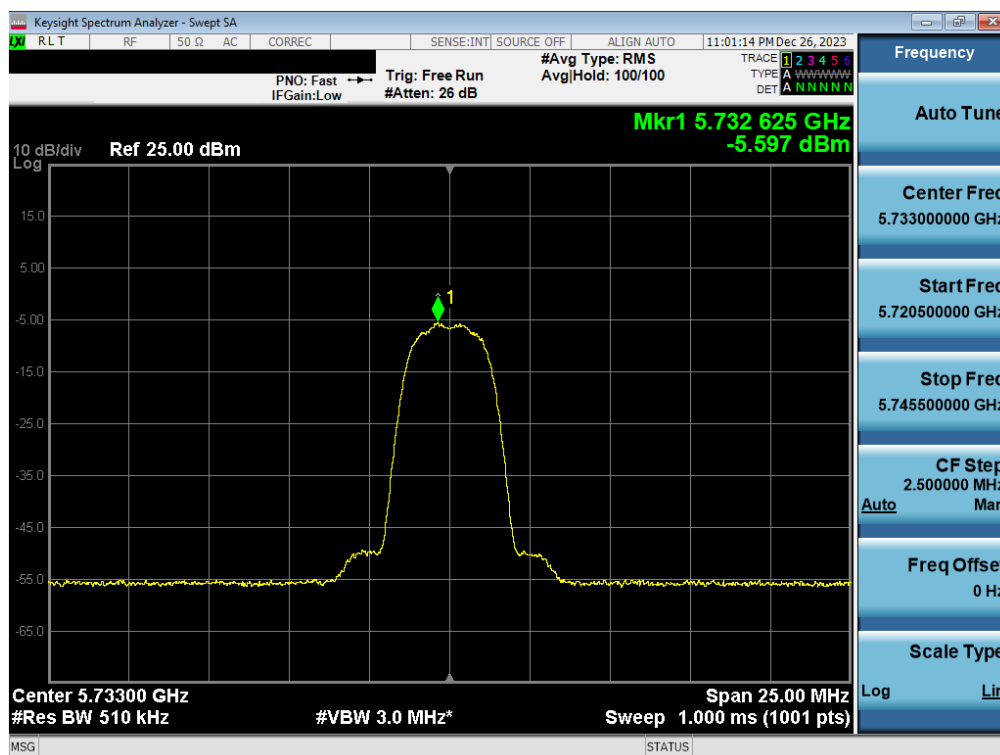


Plot 7-108. PSD Antenna WF7b (HDR4, ePA 5844MHz)

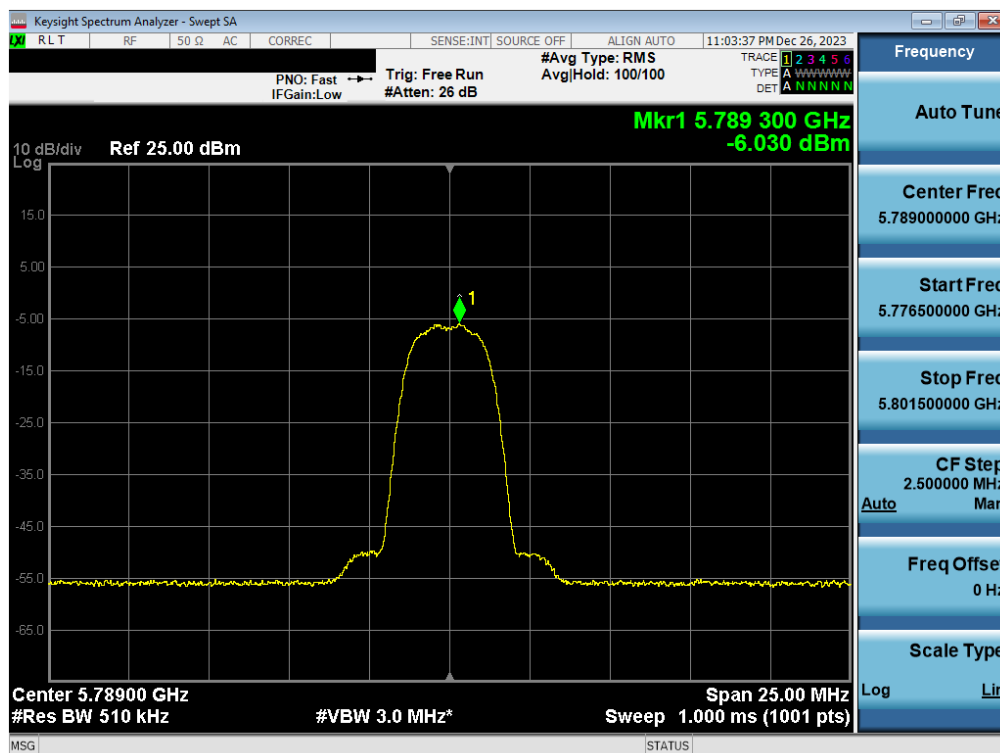
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 94 of 185

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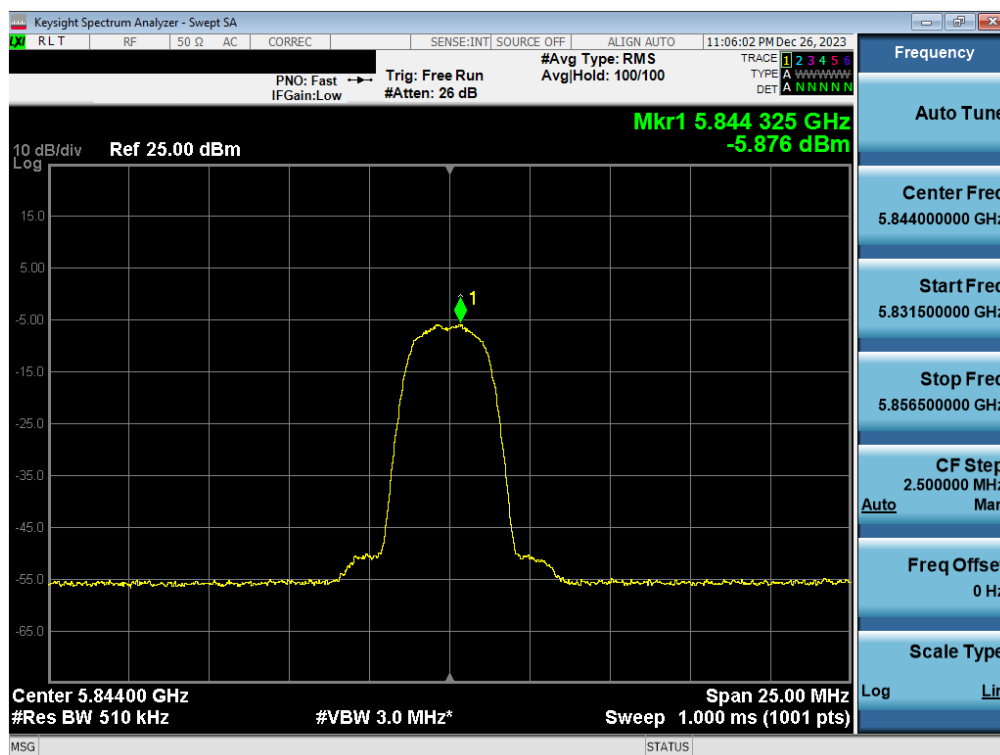
Plot 7-109. PSD Antenna WF7b (HDR4, iPA 5733MHz)



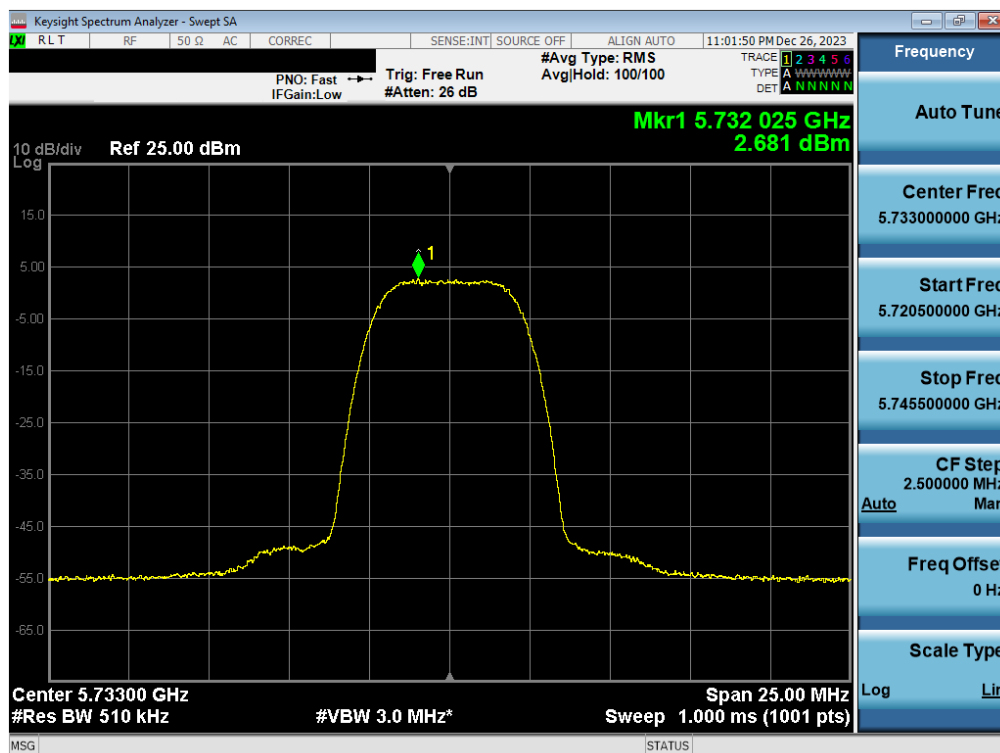
Plot 7-110. PSD Antenna WF7b (HDR4, iPA 5789MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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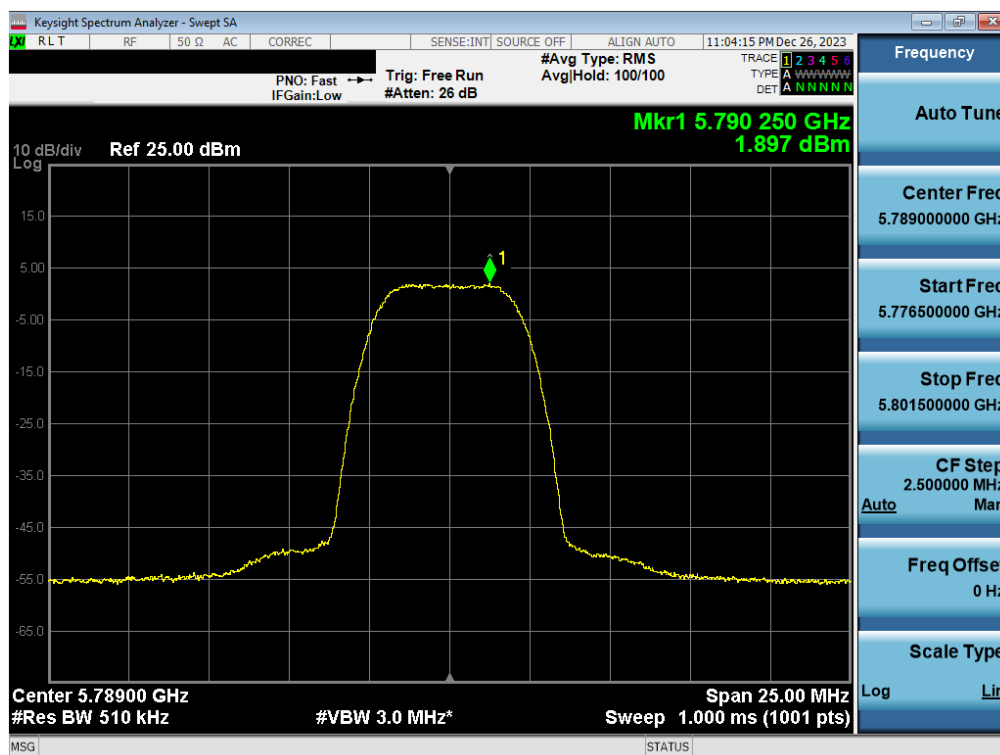
Plot 7-111. PSD Antenna WF7b (HDR4, iPA 5844MHz)



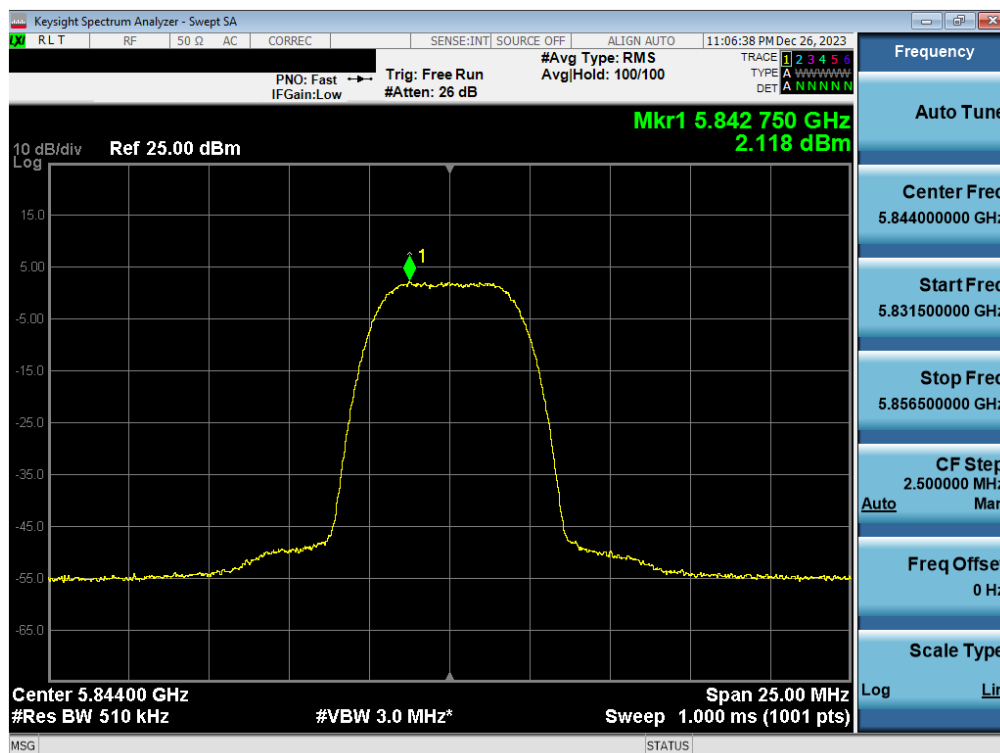
Plot 7-112. PSD Antenna WF7b (HDR8, ePA 5733MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 96 of 185

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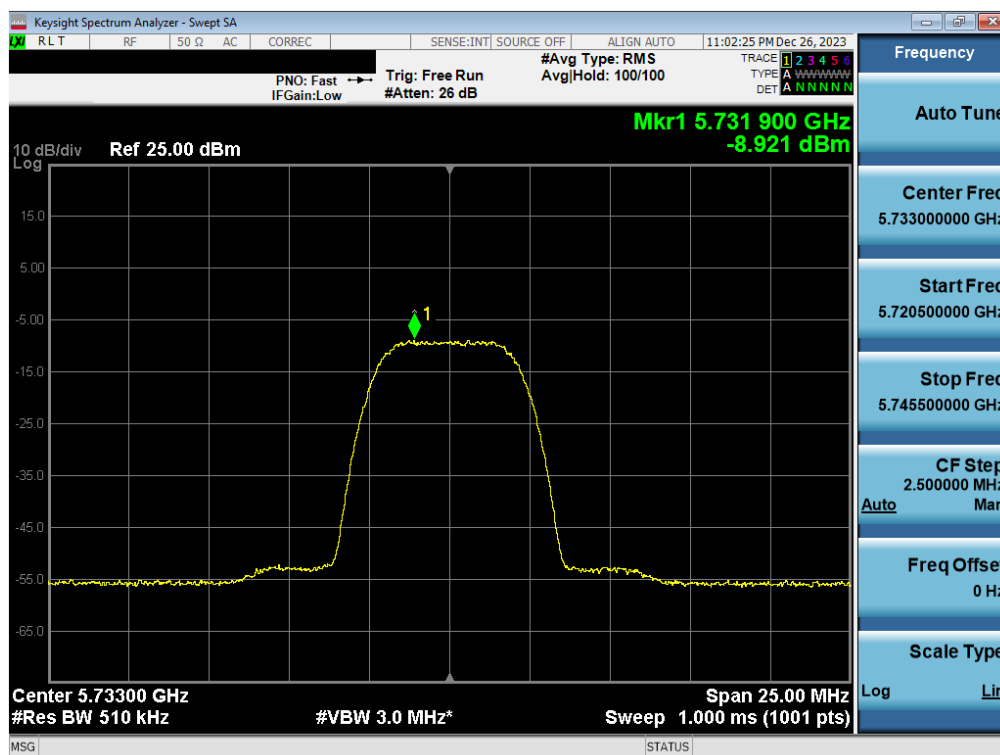
Plot 7-113. PSD Antenna WF7b (HDR8, ePA 5789MHz)



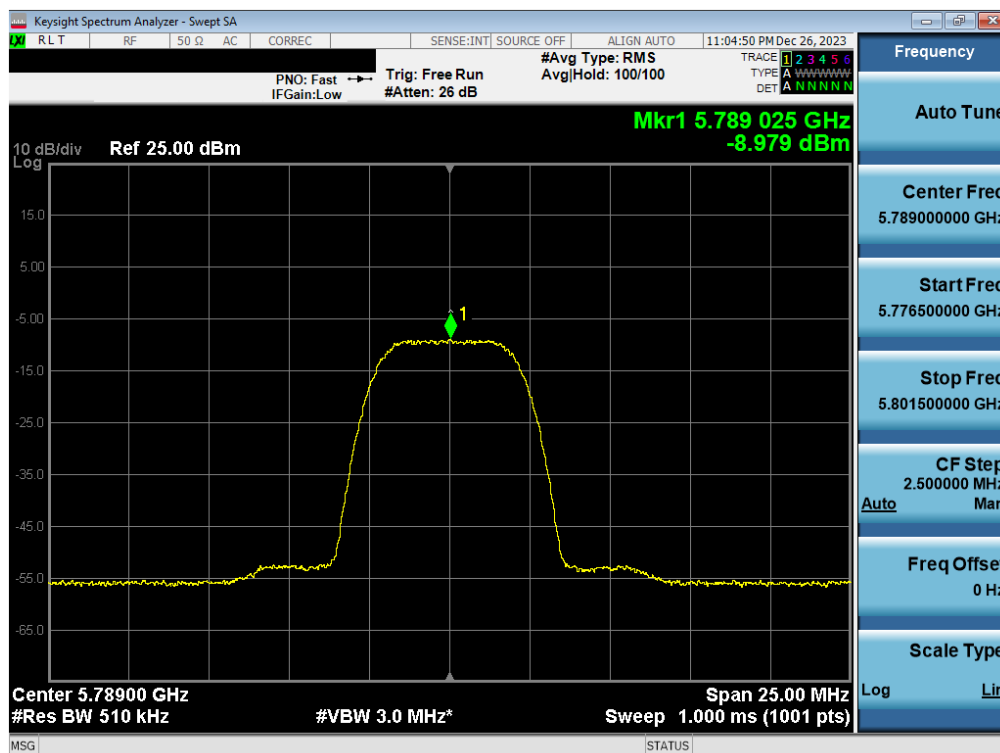
Plot 7-114. PSD Antenna WF7b (HDR8, ePA 5844MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 97 of 185

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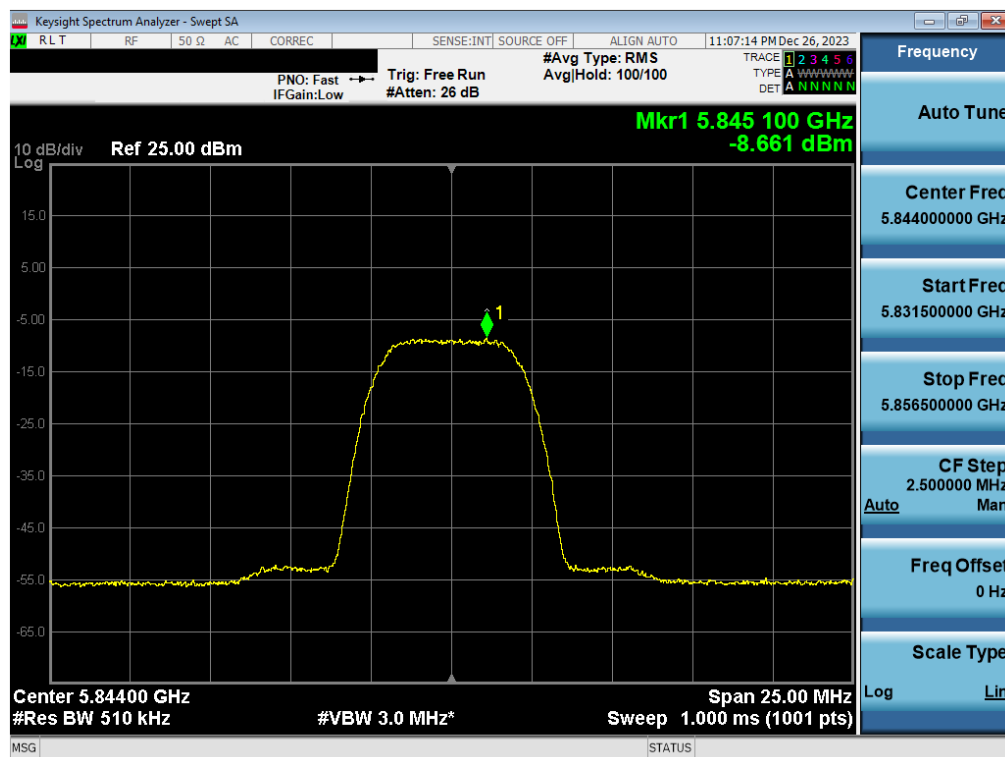
Plot 7-115. PSD Antenna WF7b (HDR8, iPA 5733MHz)



Plot 7-116. PSD Antenna WF7b (HDR8, iPA 5789MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 98 of 185

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Plot 7-117. PSD Antenna WF7b (HDR8, iPA 5844MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 99 of 185

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7.5.4 TxBF Power Spectral Density Measurements

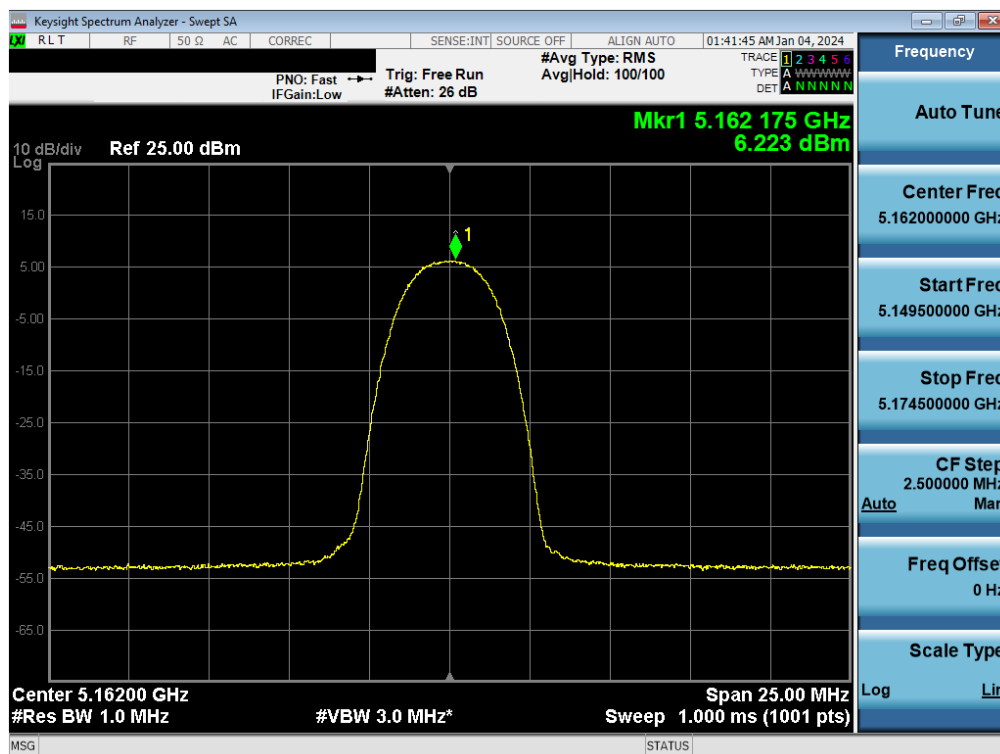
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna WF7a Power Density [dBm/MHz]	Antenna WF2a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5162	4.0	HDR4	ePA	6.22	6.04	9.14	11.00	-1.86
	5204	4.0	HDR4	ePA	6.14	6.33	9.24	11.00	-1.76
	5245	4.0	HDR4	ePA	6.55	6.48	9.53	11.00	-1.47
	5162	4.0	HDR4	iPA	-2.55	-4.40	-0.36	11.00	-11.36
	5204	4.0	HDR4	iPA	-2.80	-3.89	-0.30	11.00	-11.30
	5245	4.0	HDR4	iPA	-2.61	-3.39	0.03	11.00	-10.97
	5162	8.0	HDR8	ePA	4.85	3.94	7.43	11.00	-3.57
	5204	8.0	HDR8	ePA	4.36	3.71	7.06	11.00	-3.94
	5245	8.0	HDR8	ePA	4.30	4.21	7.26	11.00	-3.74
	5162	8.0	HDR8	iPA	-5.16	-7.21	-3.05	11.00	-14.05
	5204	8.0	HDR8	iPA	-5.38	-6.57	-2.92	11.00	-13.92
	5245	8.0	HDR8	iPA	-5.66	-5.97	-2.80	11.00	-13.80

Table 7-25. FCC Power Spectral Density Measurements TxBF

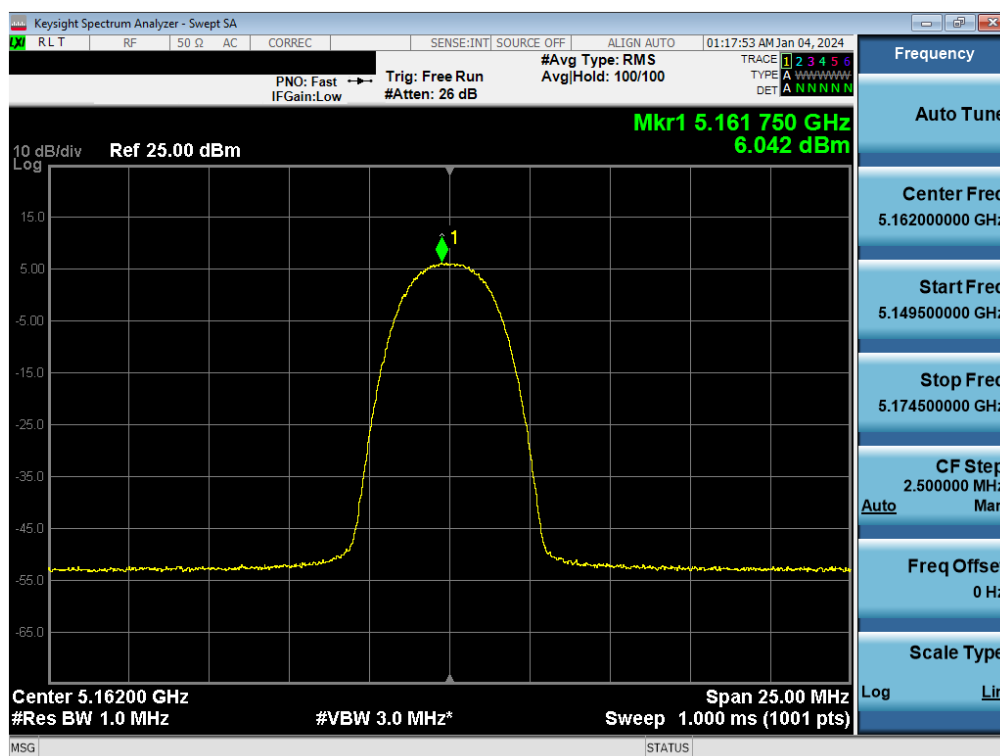
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna WF7a Power Density [dBm/MHz]	Antenna WF2a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5162	4.0	HDR4	ePA	1.37	0.97	4.18	3.47	7.65	10.00	-2.35
	5204	4.0	HDR4	ePA	1.53	1.53	4.54	3.47	8.01	10.00	-1.99
	5245	4.0	HDR4	ePA	1.53	1.93	4.74	3.47	8.22	10.00	-1.78
	5162	4.0	HDR4	iPA	-2.55	-4.40	-0.36	3.47	3.11	10.00	-6.89
	5204	4.0	HDR4	iPA	-2.80	-3.89	-0.30	3.47	3.17	10.00	-6.83
	5245	4.0	HDR4	iPA	-2.61	-3.39	0.03	3.47	3.50	10.00	-6.50
	5162	8.0	HDR8	ePA	1.58	1.68	4.64	3.47	8.11	10.00	-1.89
	5204	8.0	HDR8	ePA	0.62	1.79	4.26	3.47	7.73	10.00	-2.27
	5245	8.0	HDR8	ePA	1.27	1.94	4.63	3.47	8.10	10.00	-1.90
	5162	8.0	HDR8	iPA	-5.16	-7.21	-3.05	3.47	0.42	10.00	-9.58
	5204	8.0	HDR8	iPA	-5.38	-6.57	-2.92	3.47	0.55	10.00	-9.45
	5245	8.0	HDR8	iPA	-5.66	-5.97	-2.80	3.47	0.67	10.00	-9.33

Table 7-26. ISED Power Spectral Density Measurements TxBF

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 100 of 185



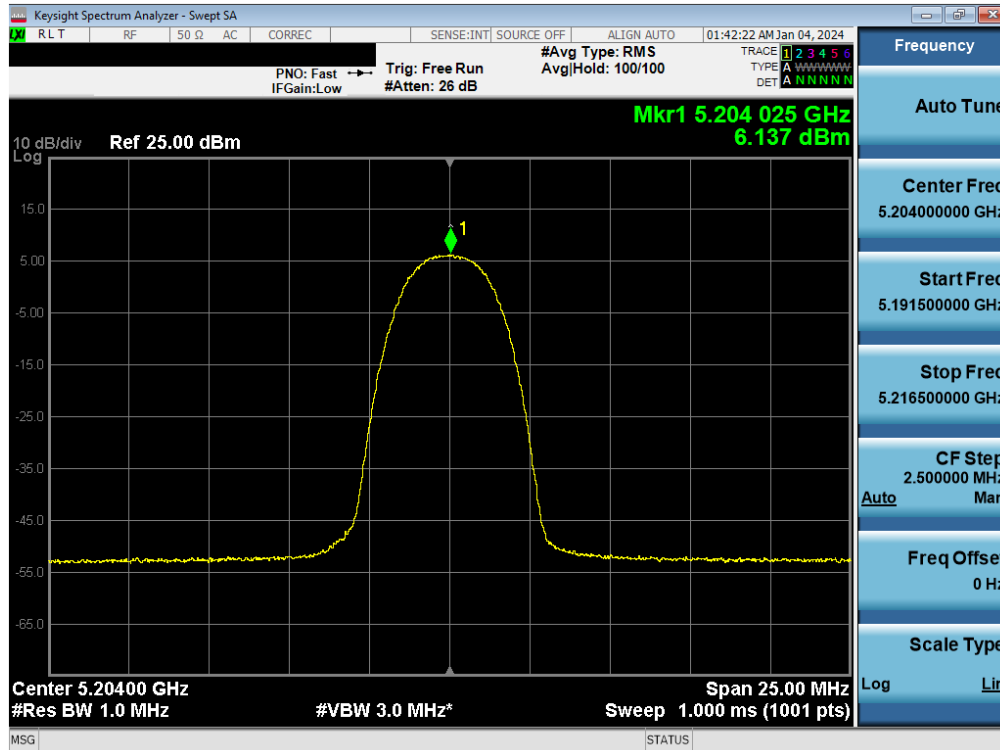
Plot 7-118. FCC PSD TxBF Antenna WF7a (HDR4, ePA – 5162MHz)



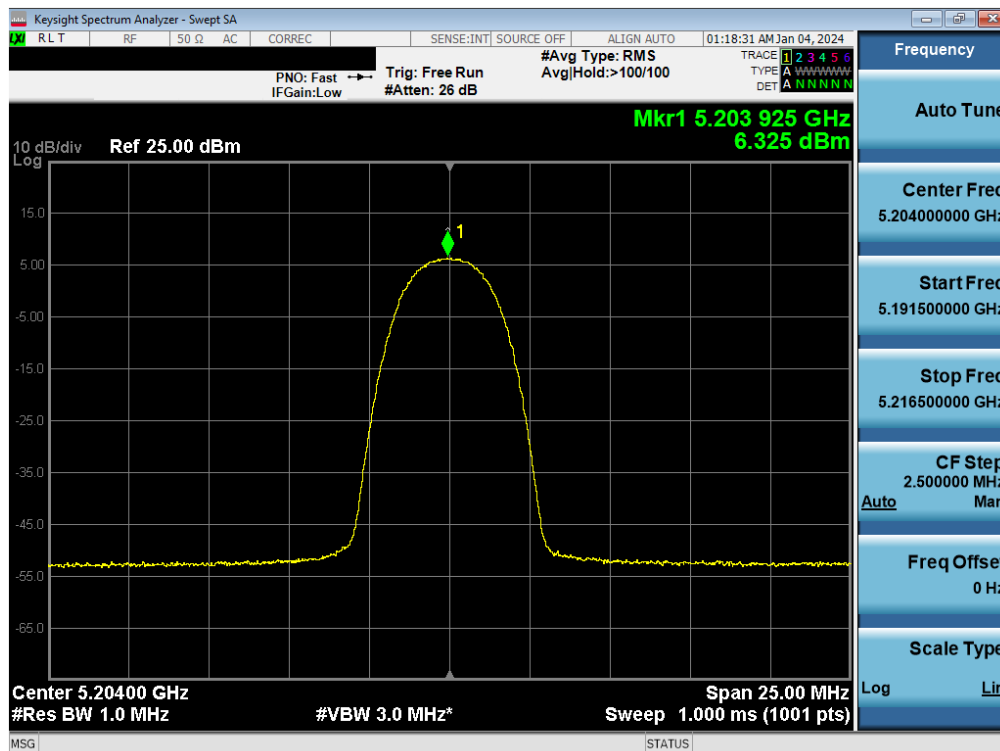
Plot 7-119. FCC PSD TxBF Antenna WF2a (HDR4, ePA – 5162MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 101 of 185

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Plot 7-120. FCC PSD TxBF Antenna WF7a (HDR4, ePA – 5204MHz)

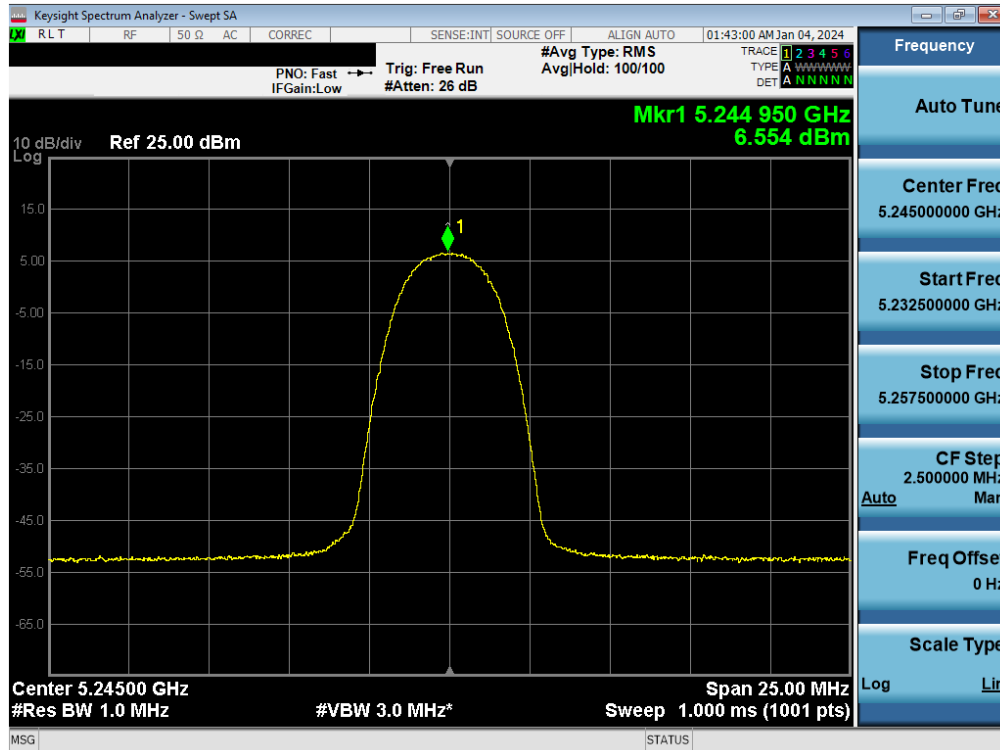


Plot 7-121. FCC PSD TxBF Antenna WF2a (HDR4, ePA – 5204MHz)

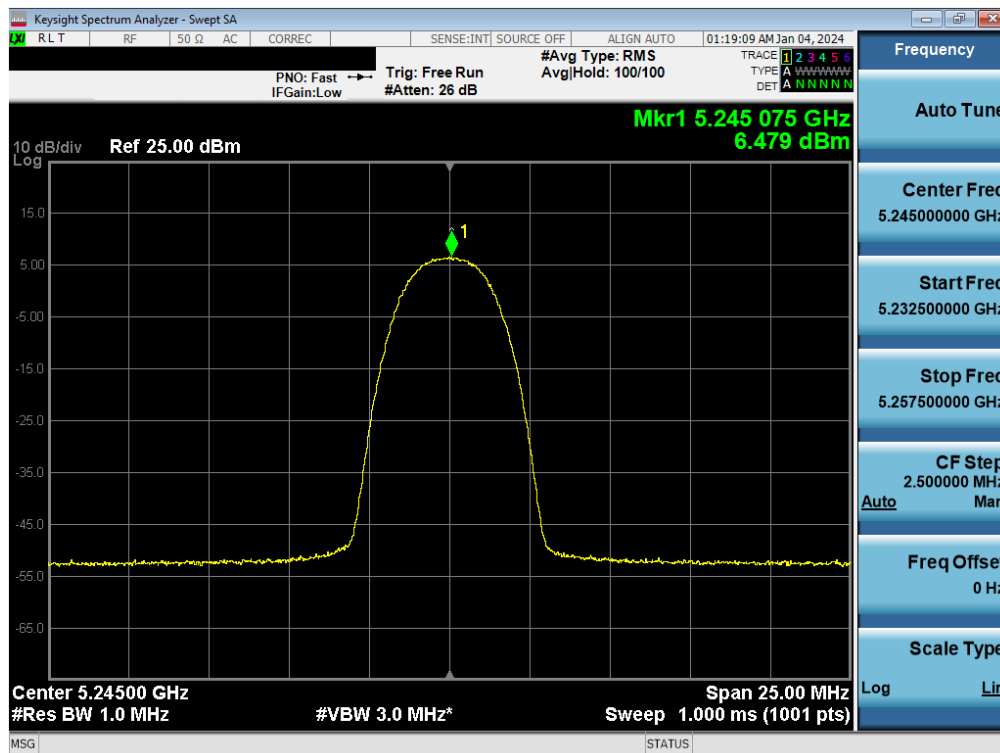
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 102 of 185

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Plot 7-122. FCC PSD TxBF Antenna WF7a (HDR4, ePA- 5245MHz)

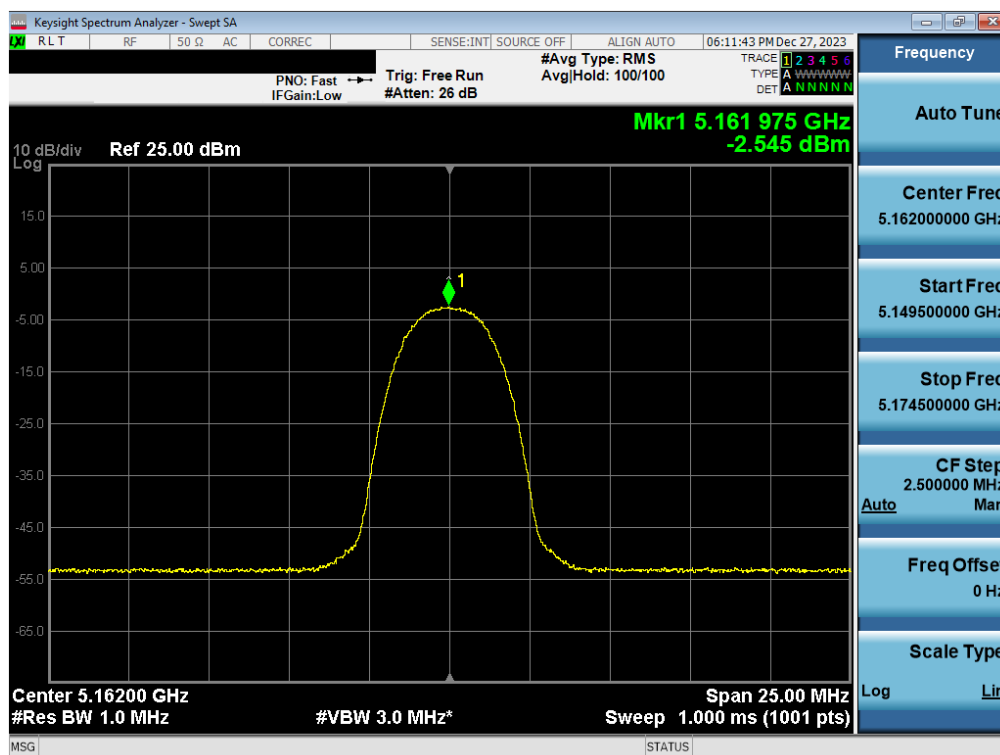


Plot 7-123. FCC PSD TxBF Antenna WF2a (HDR4, ePA- 5245MHz)

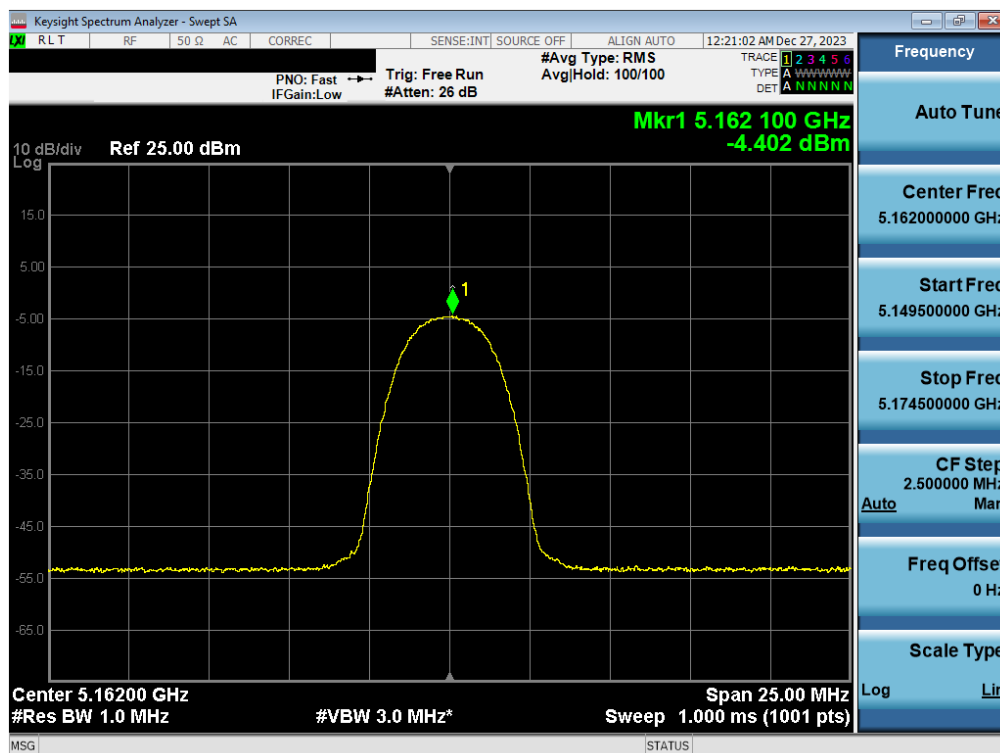
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 103 of 185

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Plot 7-124. FCC/ISED PSD TxBF Antenna WF7a (HDR4, iPA – 5162MHz)

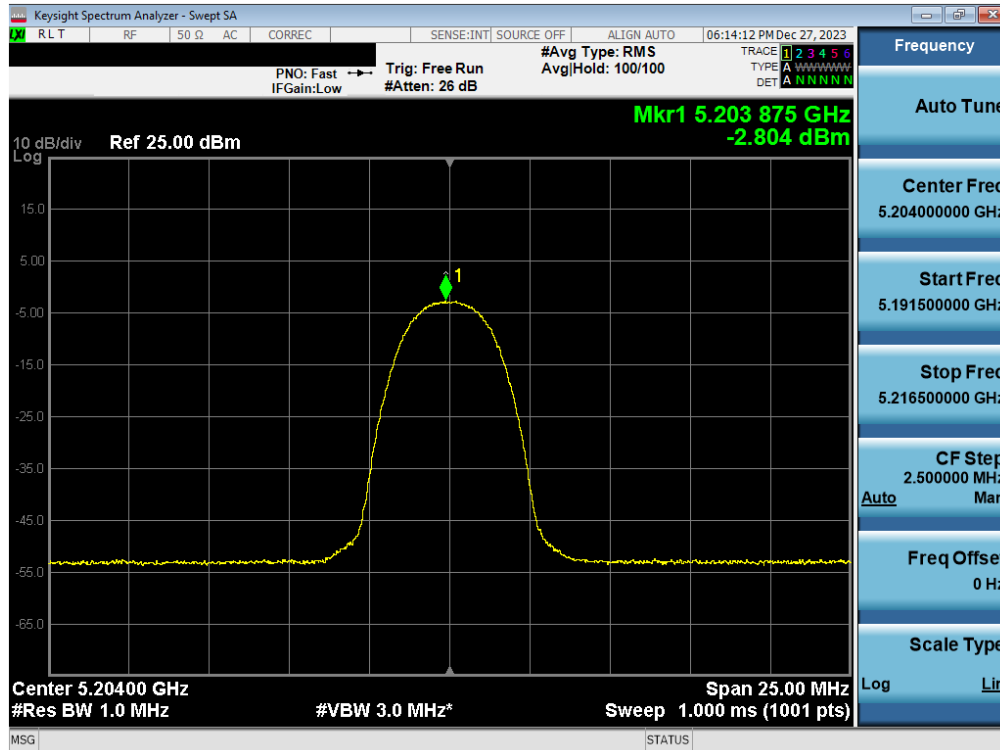


Plot 7-125. FCC/ISED PSD TxBF Antenna WF2a (HDR4, iPA – 5162MHz)

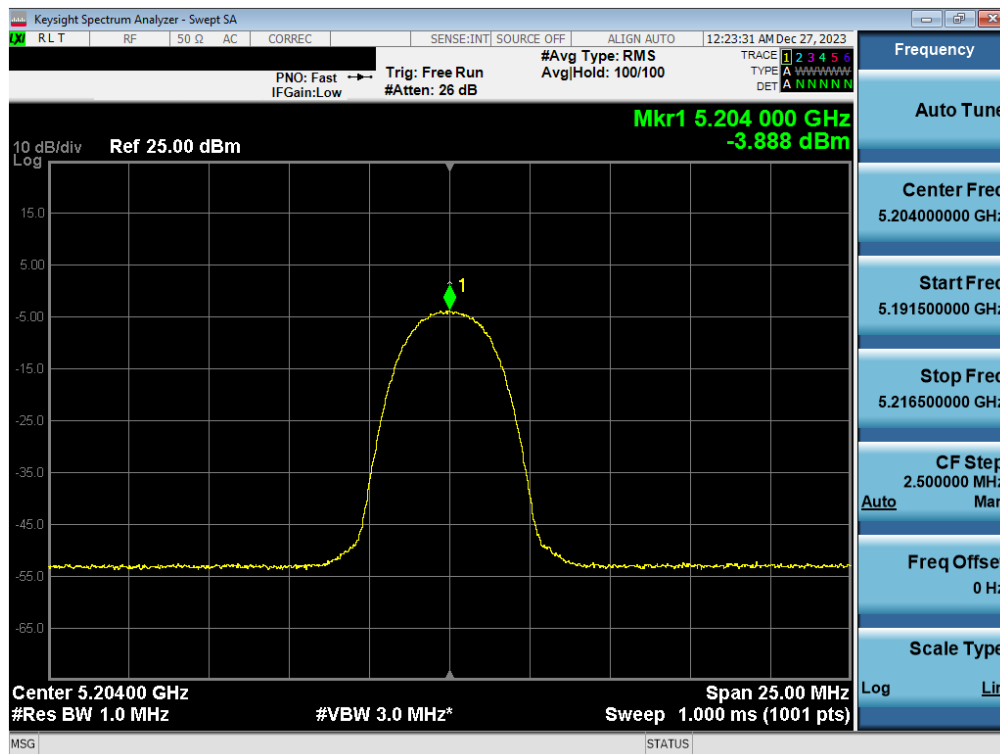
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 104 of 185

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Plot 7-126. FCC/ISED PSD TxBF Antenna WF7a (HDR4, iPA – 5204MHz)

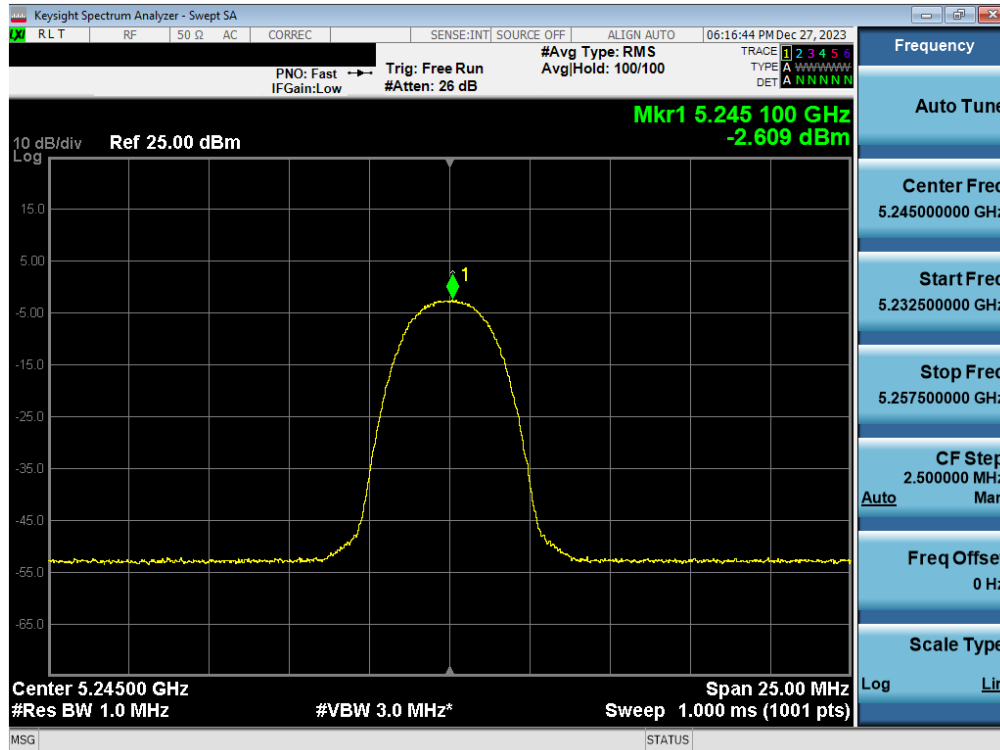


Plot 7-127. FCC/ISED PSD TxBF Antenna WF2a (HDR4, iPA – 5204MHz)

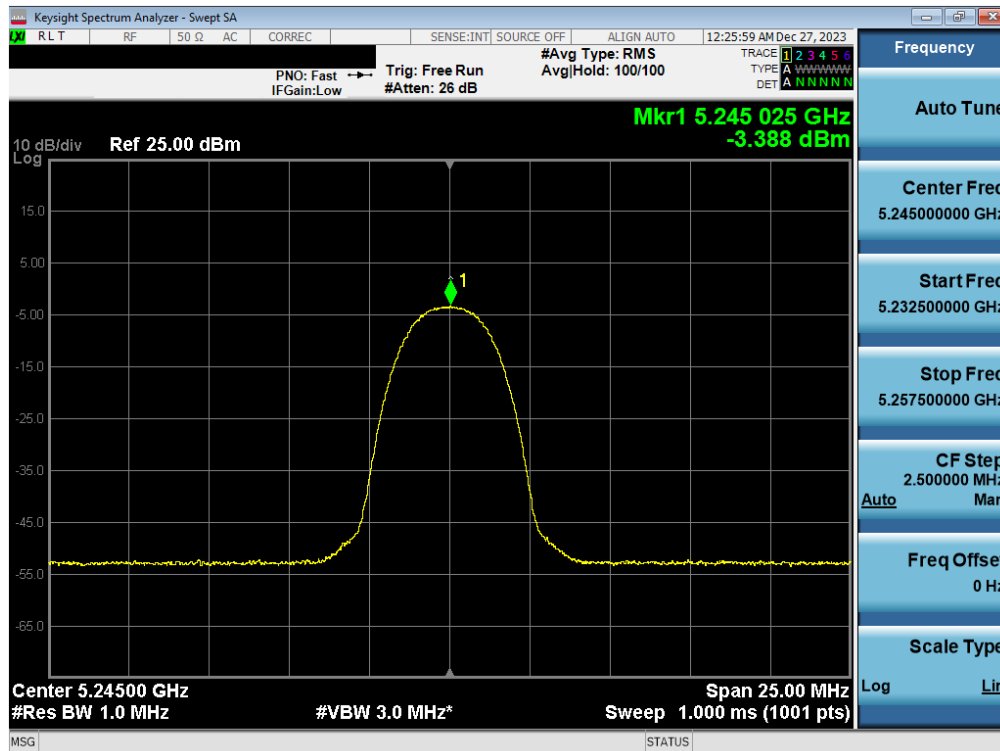
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 105 of 185

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Plot 7-128. FCC/ISED PSD TxBF Antenna WF7a (HDR4, iPA- 5245MHz)

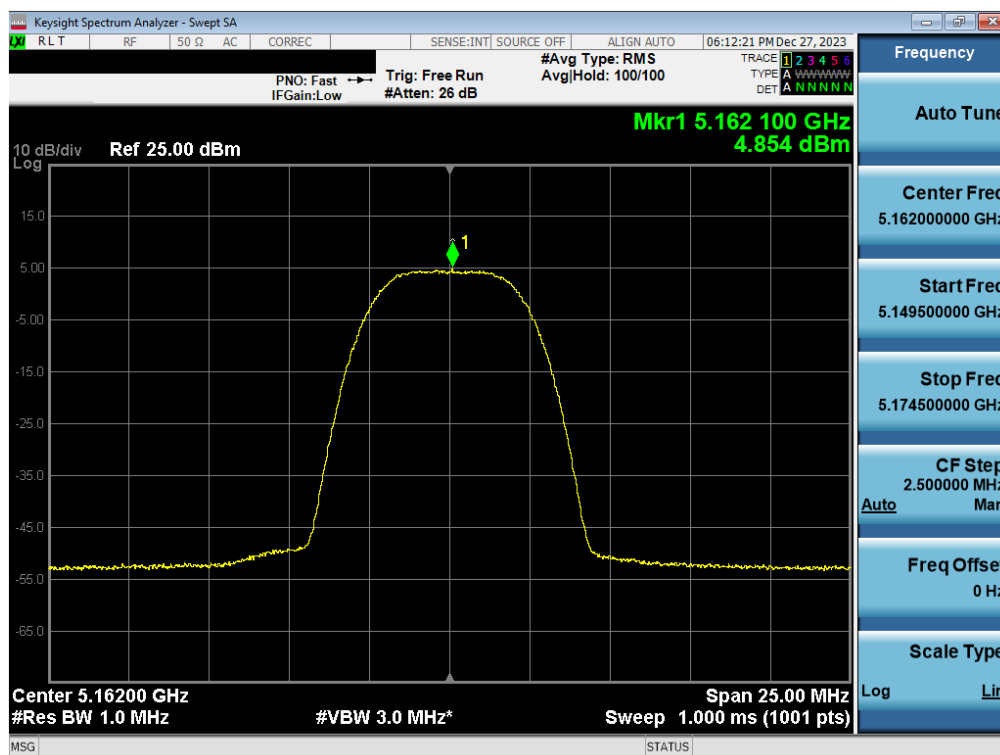


Plot 7-129. FCC/ISED PSD TxBF Antenna WF2a (HDR4, iPA- 5245MHz)

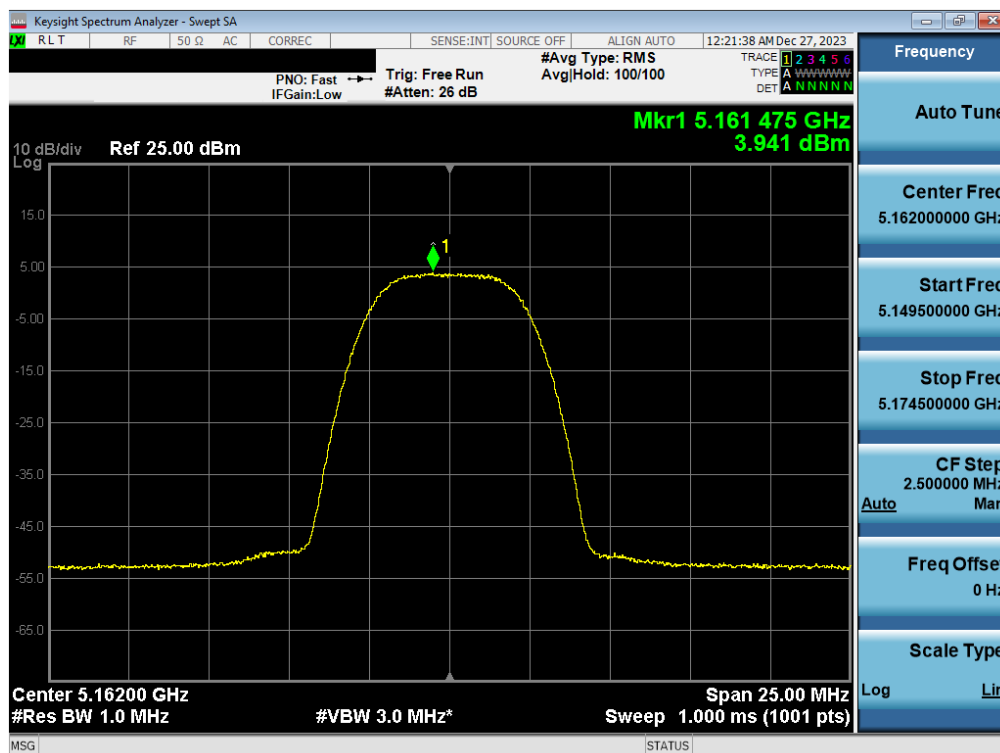
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 106 of 185

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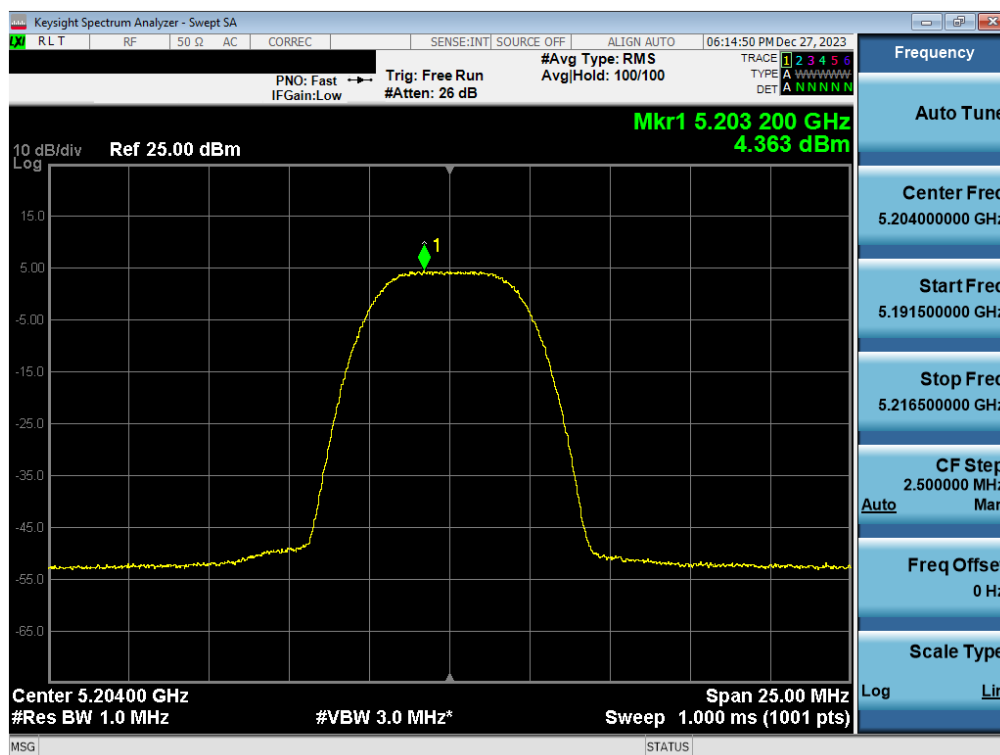
Plot 7-130. FCC PSD TxBF Antenna WF7a (HDR8, ePA – 5162MHz)



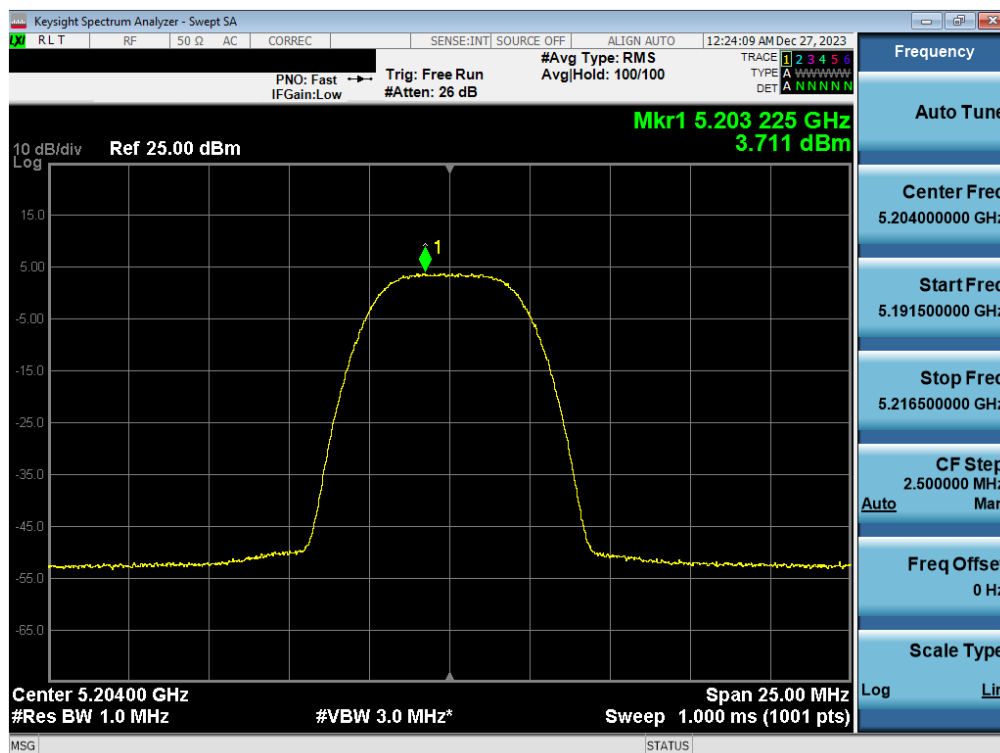
Plot 7-131. FCC PSD TxBF Antenna WF2a (HDR8, ePA – 5162MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 107 of 185

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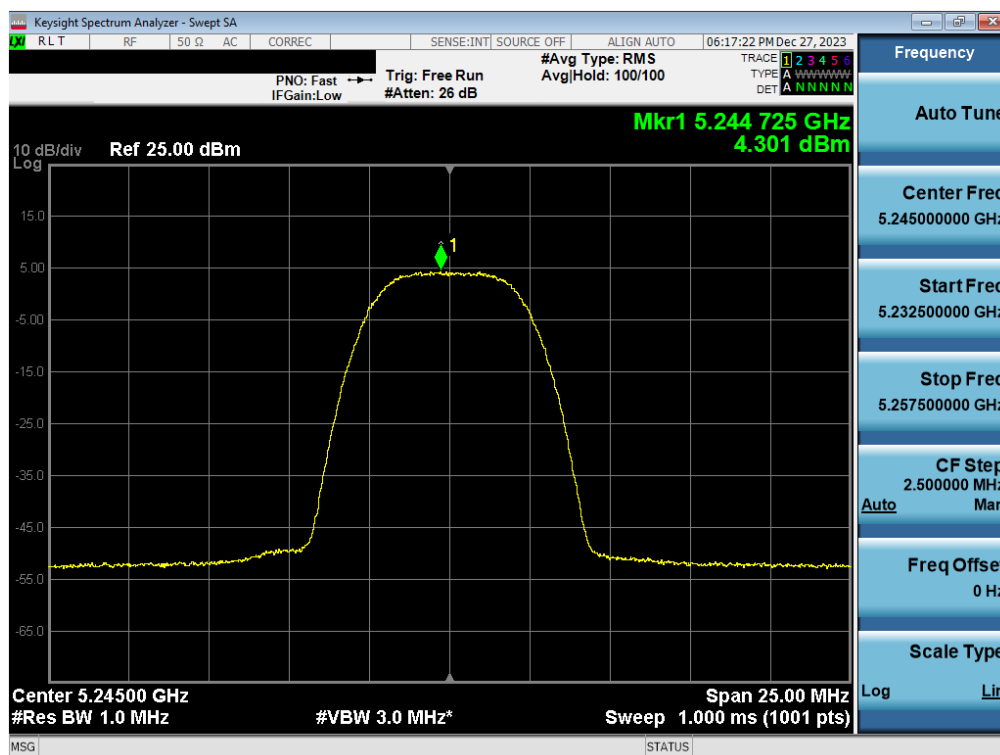
Plot 7-132. FCC PSD TxBF Antenna WF7a (HDR8, ePA – 5204MHz)



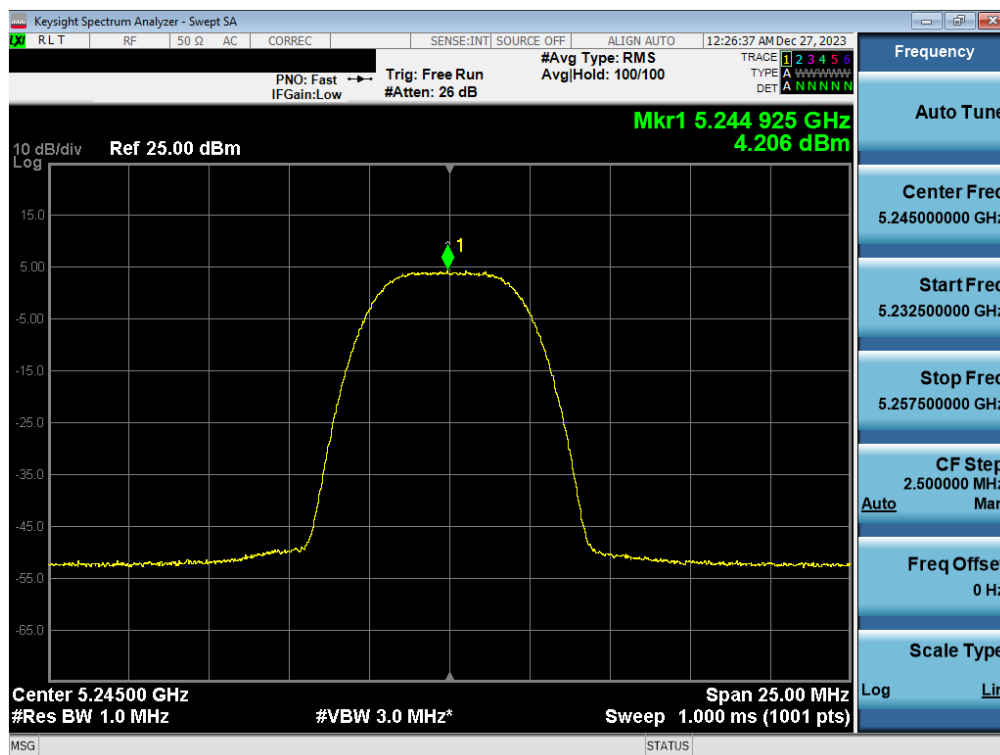
Plot 7-133. FCC PSD TxBF Antenna WF2a (HDR8, ePA – 5204MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 108 of 185

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Plot 7-134. FCC PSD TxBF Antenna WF7a (HDR8, ePA- 5245MHz)

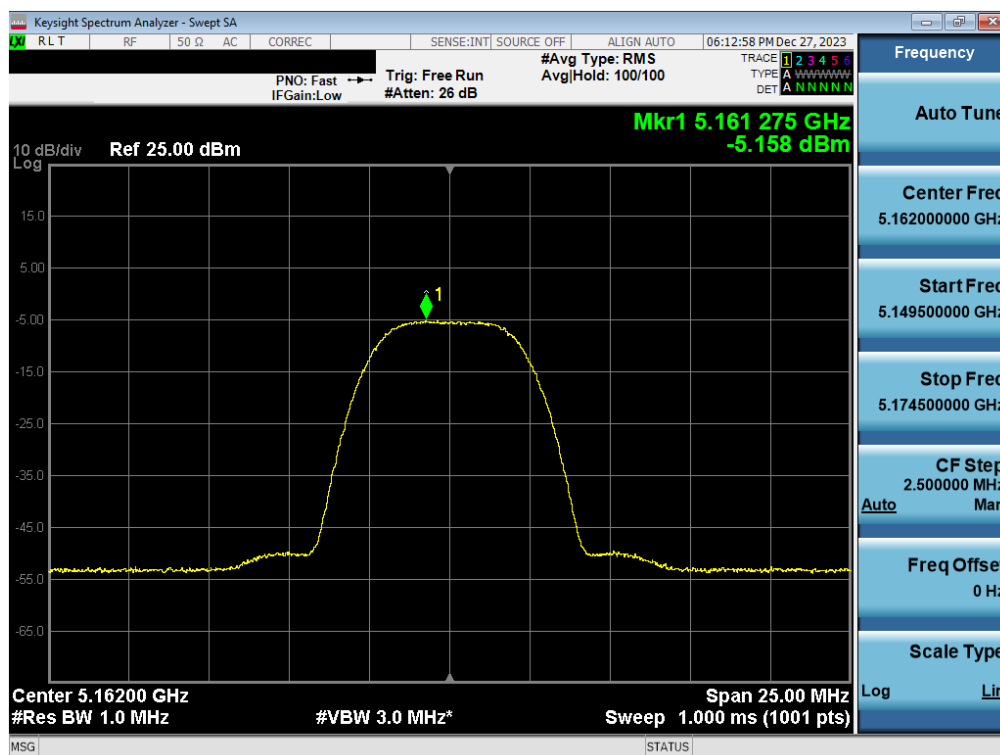


Plot 7-135. FCC PSD TxBF Antenna WF2a (HDR8, ePA- 5245MHz)

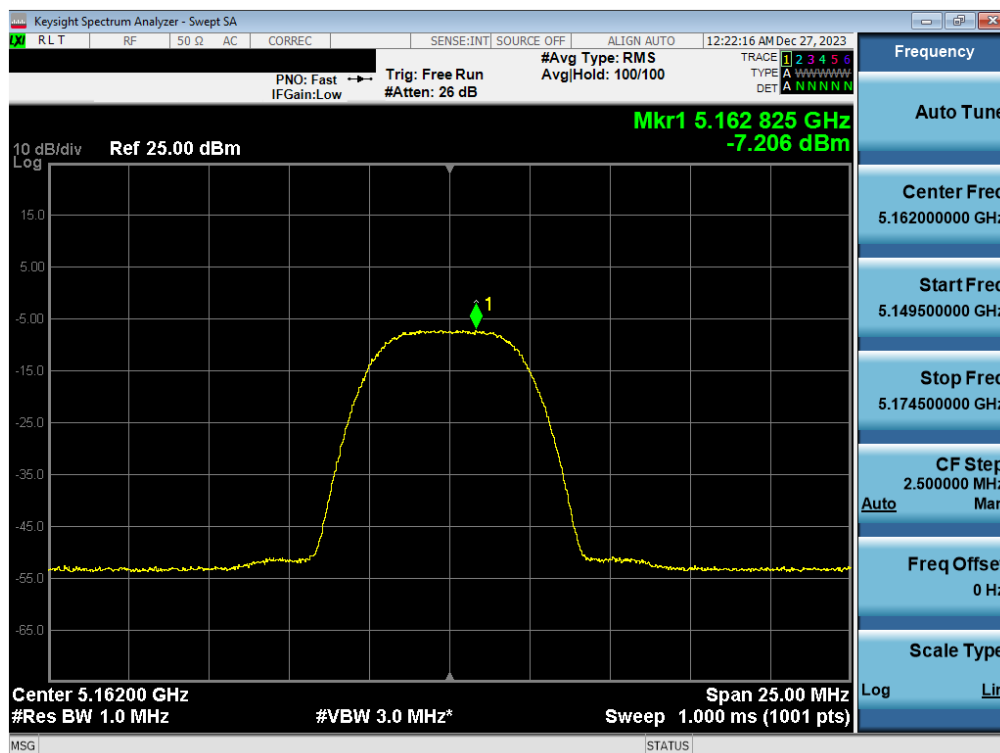
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 109 of 185

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Plot 7-136. FCC/ISED PSD TxBF Antenna WF7a (HDR8, iPA – 5162MHz)

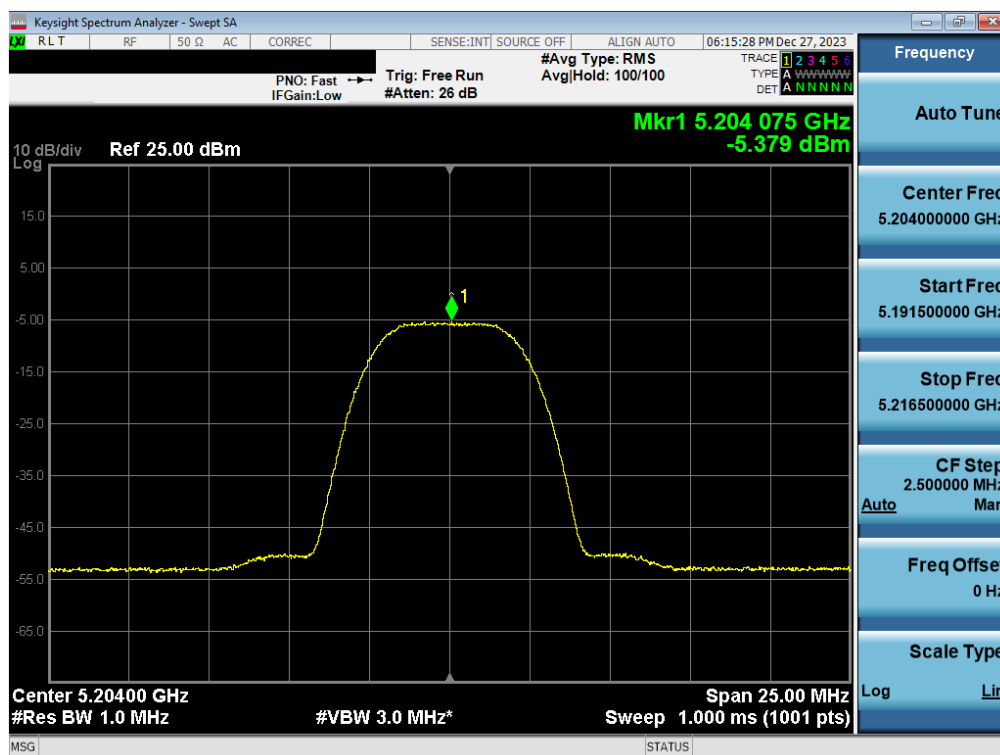


Plot 7-137. FCC/ISED PSD TxBF Antenna WF2a (HDR8, iPA – 5162MHz)

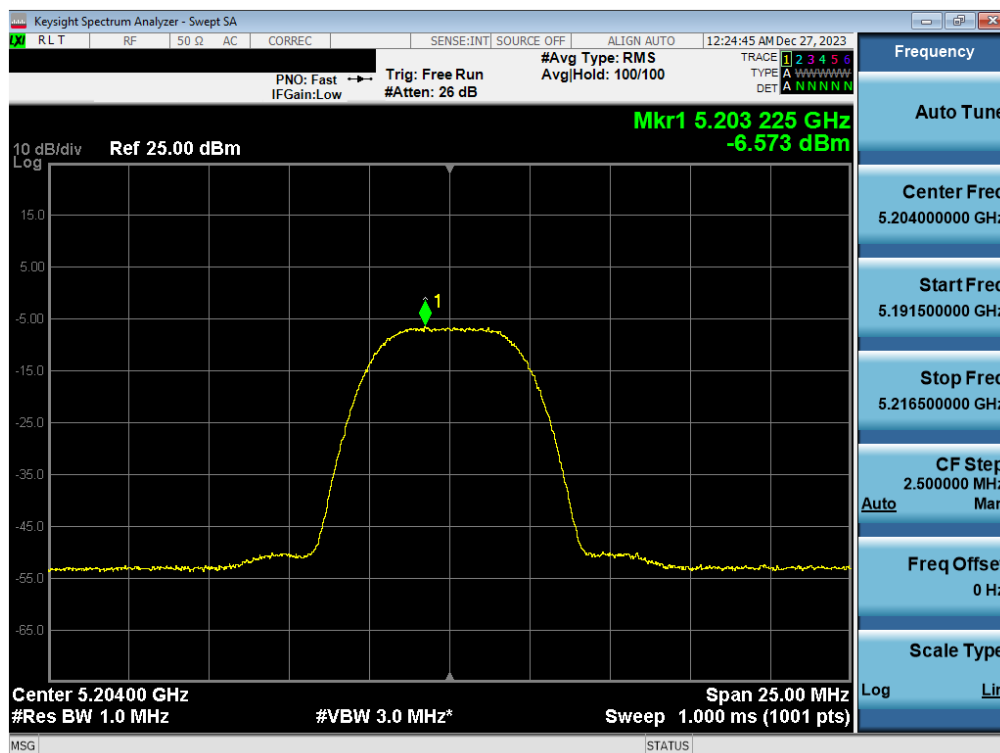
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 110 of 185

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Plot 7-138. FCC/ISED PSD TxBF Antenna WF7a (HDR8, iPA – 5204MHz)

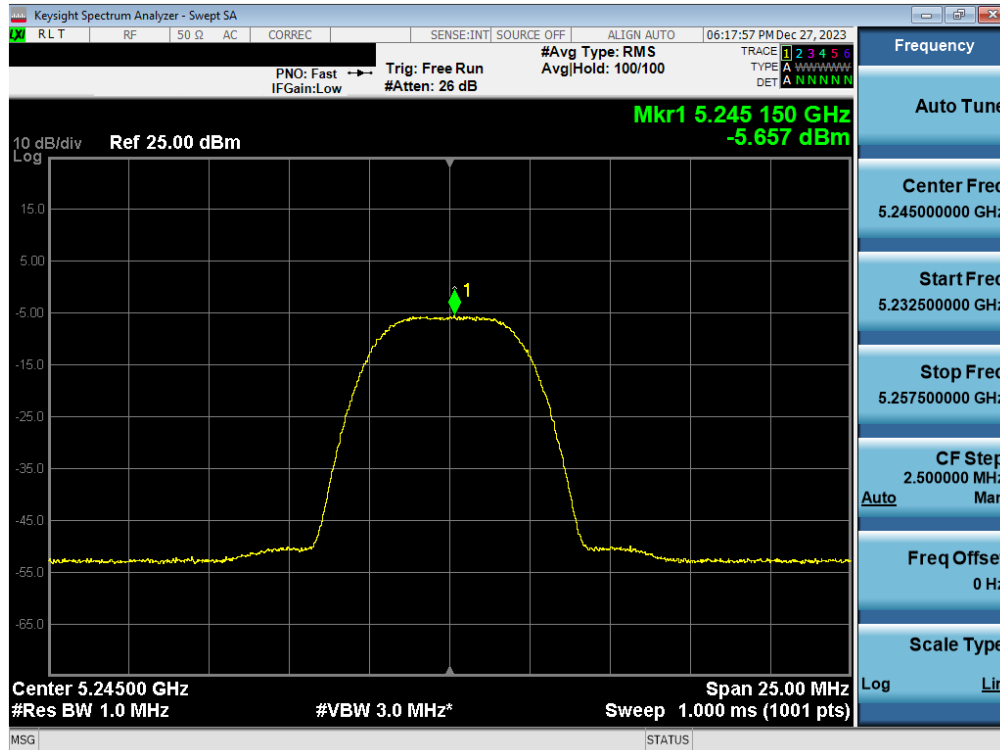


Plot 7-139. FCC/ISED PSD TxBF Antenna WF2a (HDR8, iPA – 5204MHz)

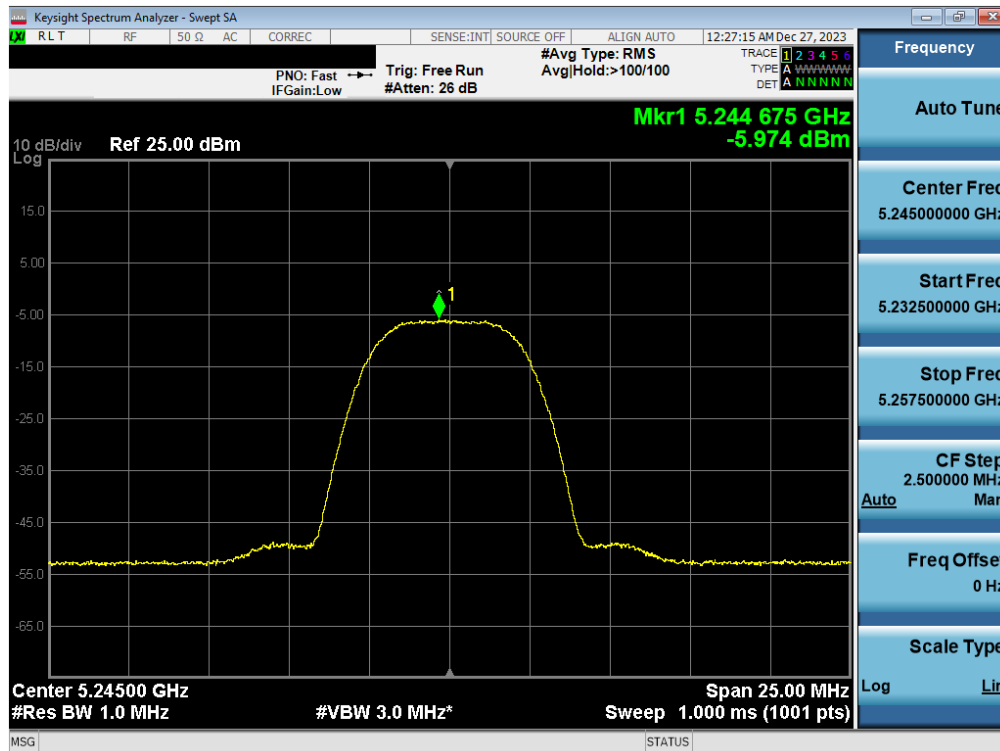
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 111 of 185

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Plot 7-140. FCC/ISED PSD TxBF Antenna WF7a (HDR8, iPA- 5245MHz)

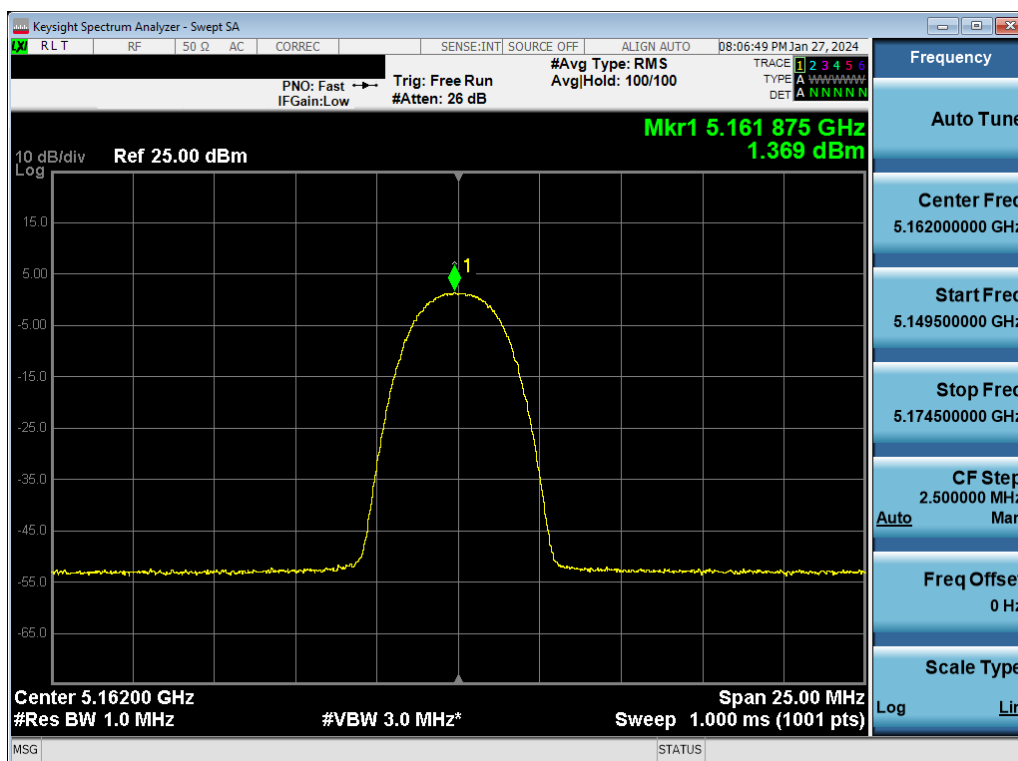


Plot 7-141. FCC/ISED PSD TxBF Antenna WF2a (HDR8, iPA- 5245MHz)

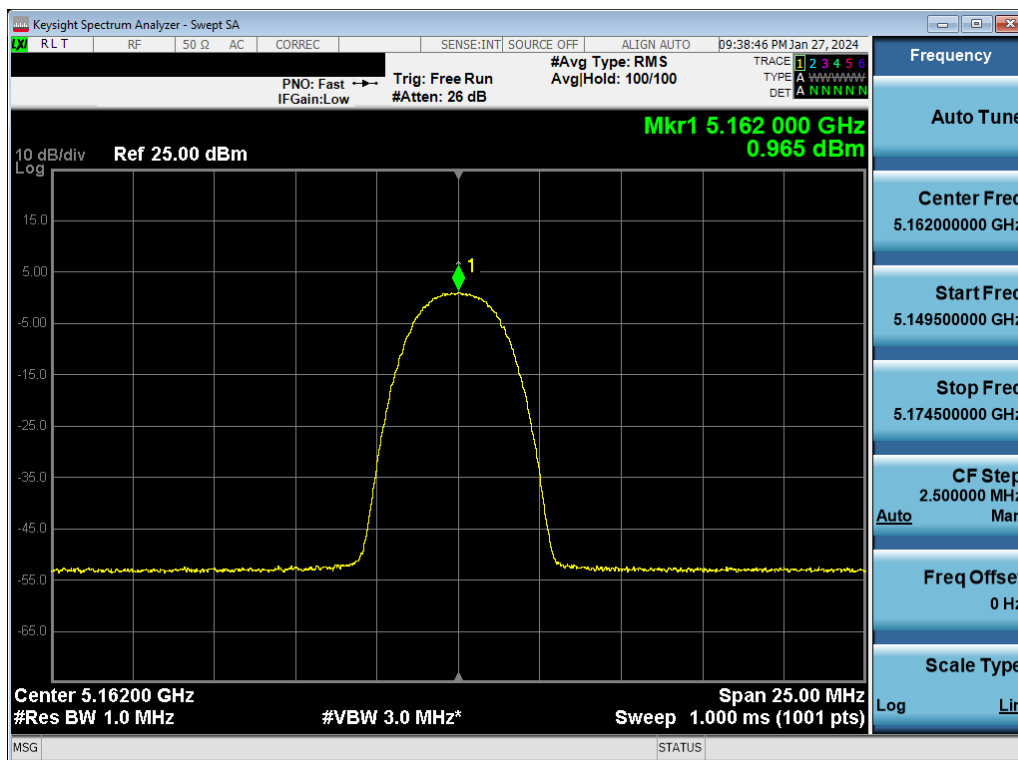
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 112 of 185

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Plot 7-142. ISED PSD TxBF Antenna WF7a (HDR4, ePA – 5162MHz)

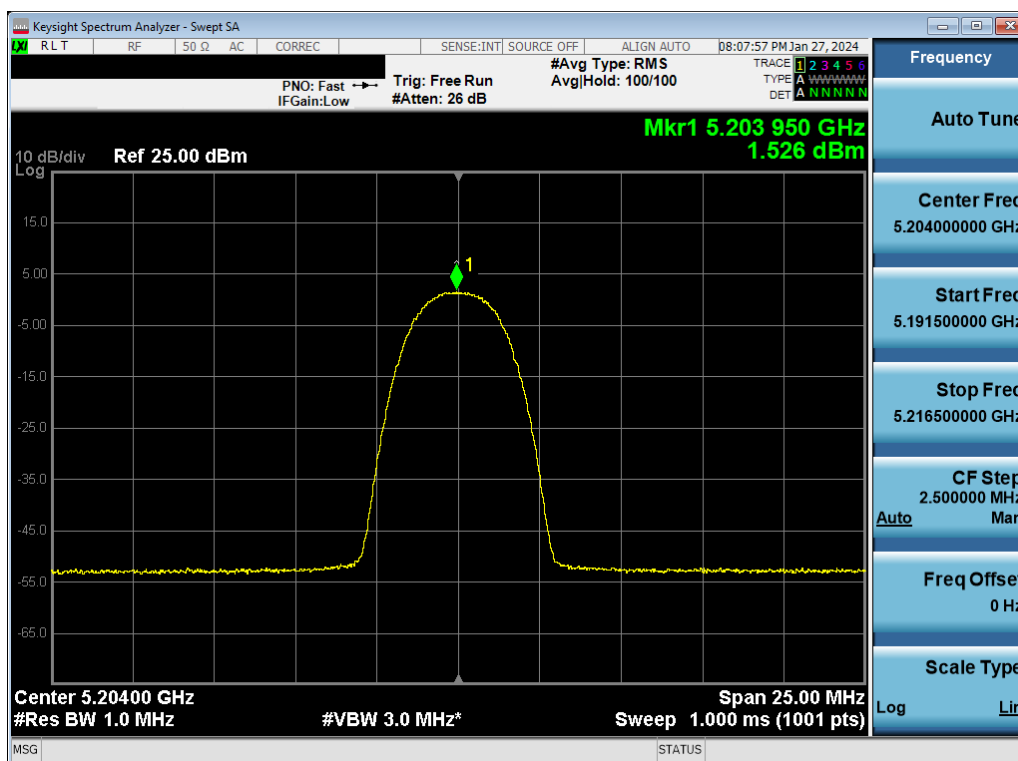


Plot 7-143. ISED PSD TxBF Antenna WF2a (HDR4, ePA – 5162MHz)

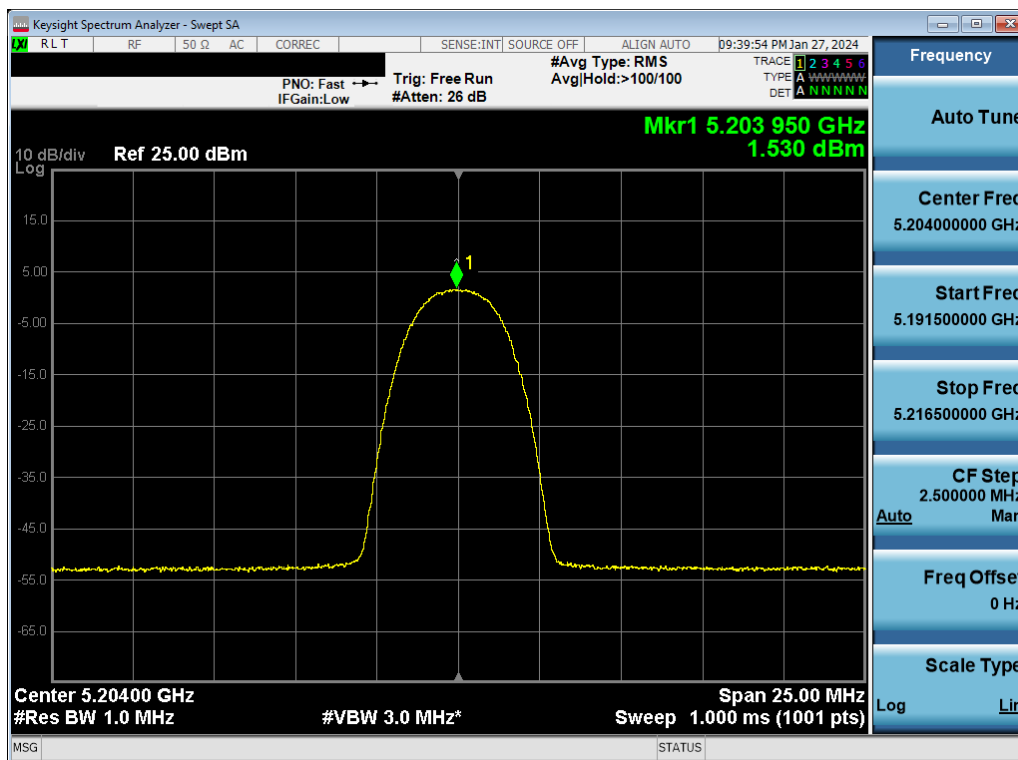
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 113 of 185

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Plot 7-144. ISED PSD TxBF Antenna WF7a (HDR4, ePA – 5204MHz)

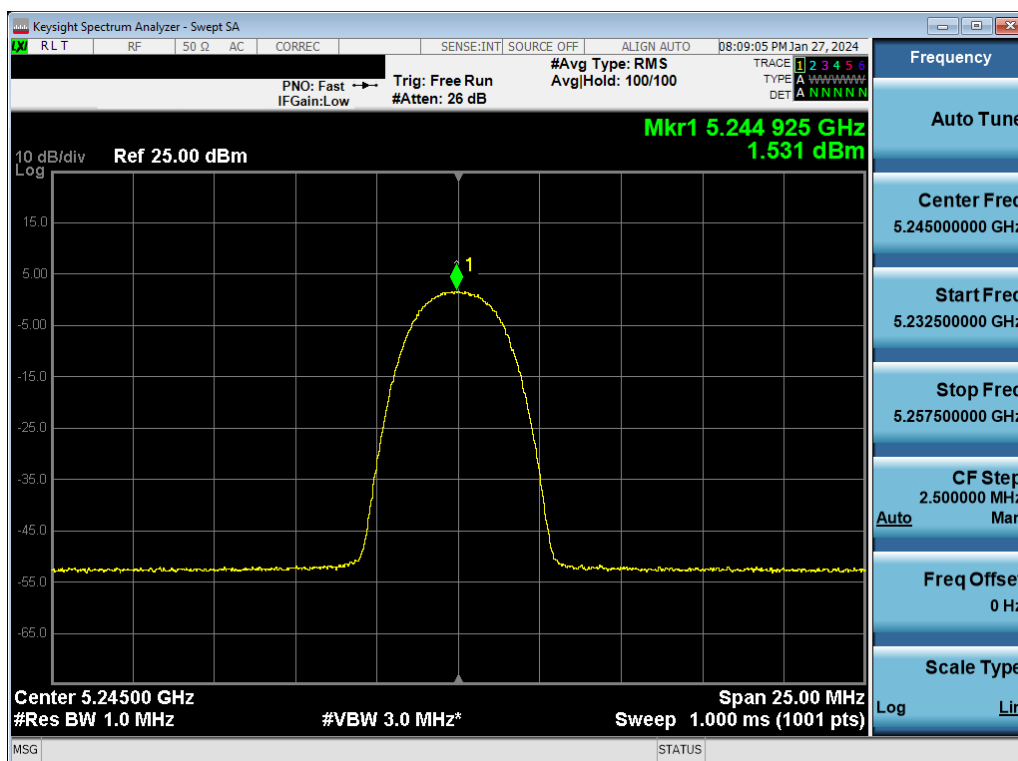


Plot 7-145. ISED PSD TxBF Antenna WF2a (HDR4, ePA – 5204MHz)

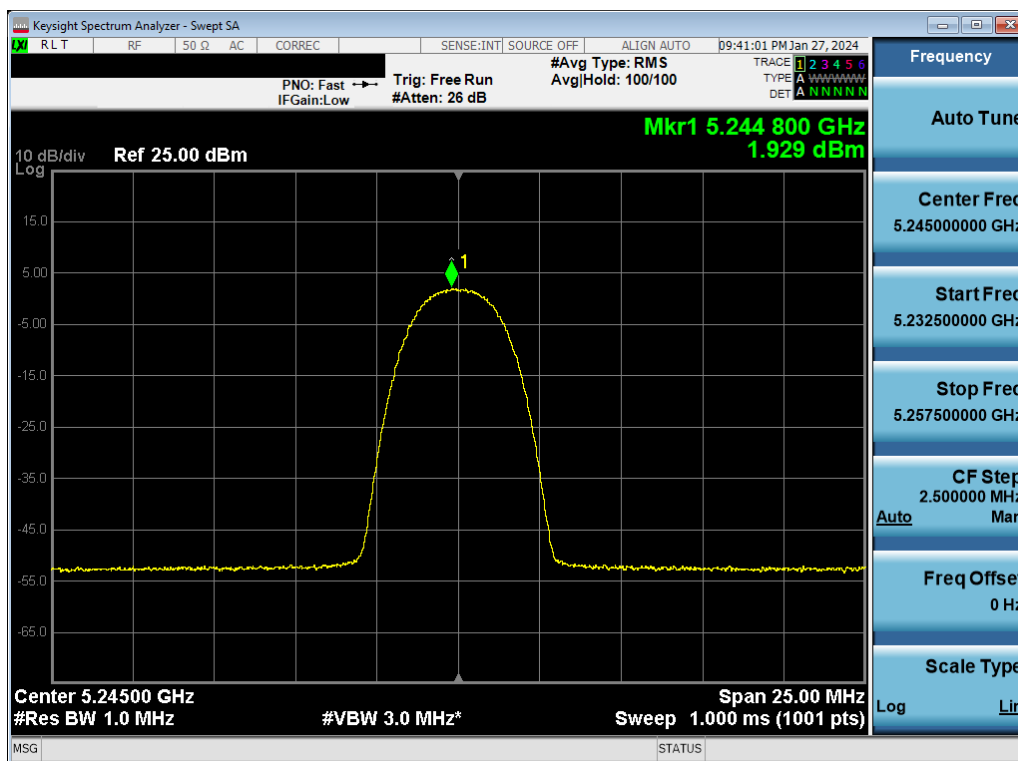
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-146. ISED PSD TxBF Antenna WF7a (HDR4, ePA- 5245MHz)

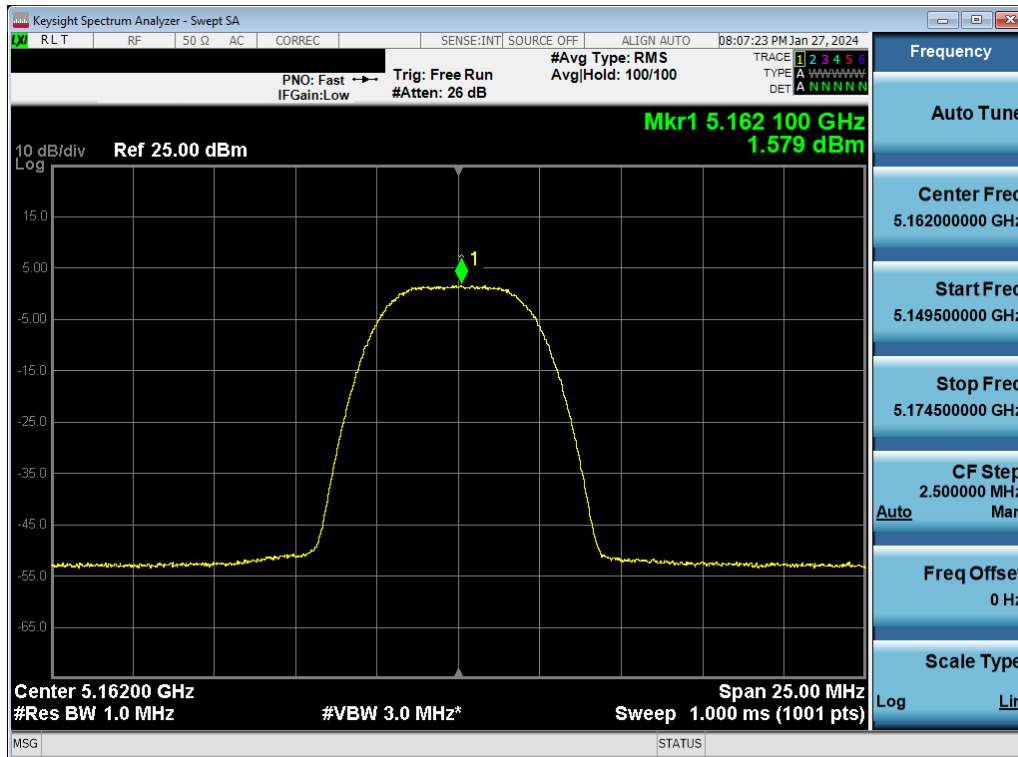


Plot 7-147. ISED PSD TxBF Antenna WF2a (HDR4, ePA- 5245MHz)

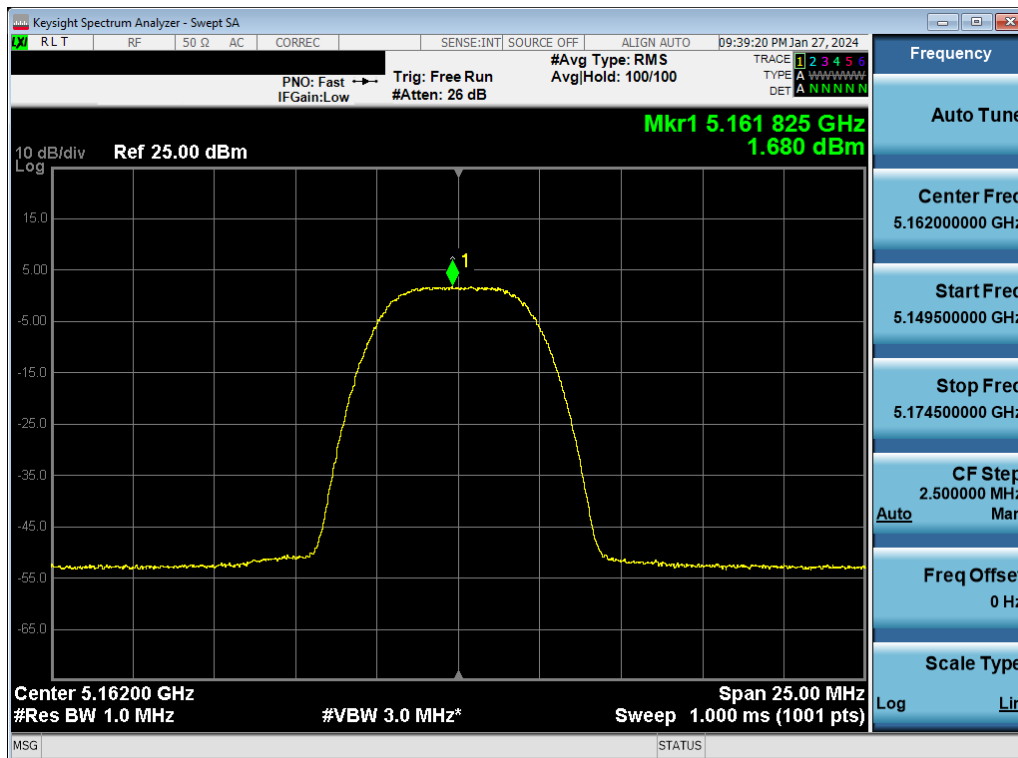
FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-148. ISED PSD TxBF Antenna WF7a (HDR8, ePA – 5162MHz)

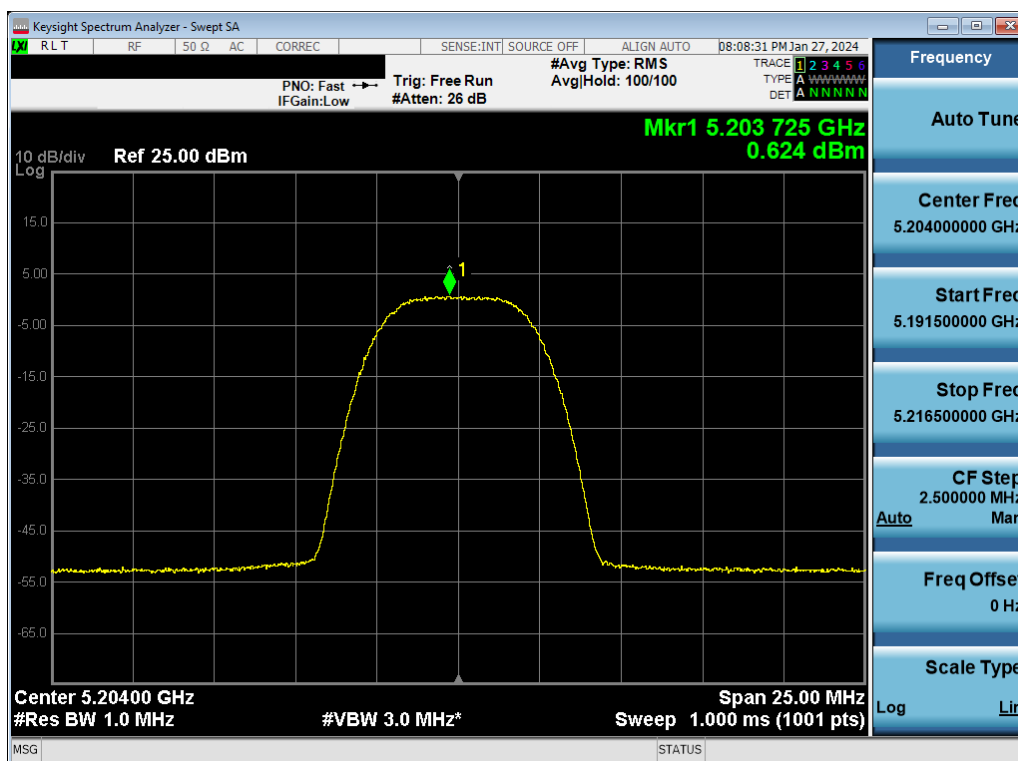


Plot 7-149. ISED PSD TxBF Antenna WF2a (HDR8, ePA – 5162MHz)

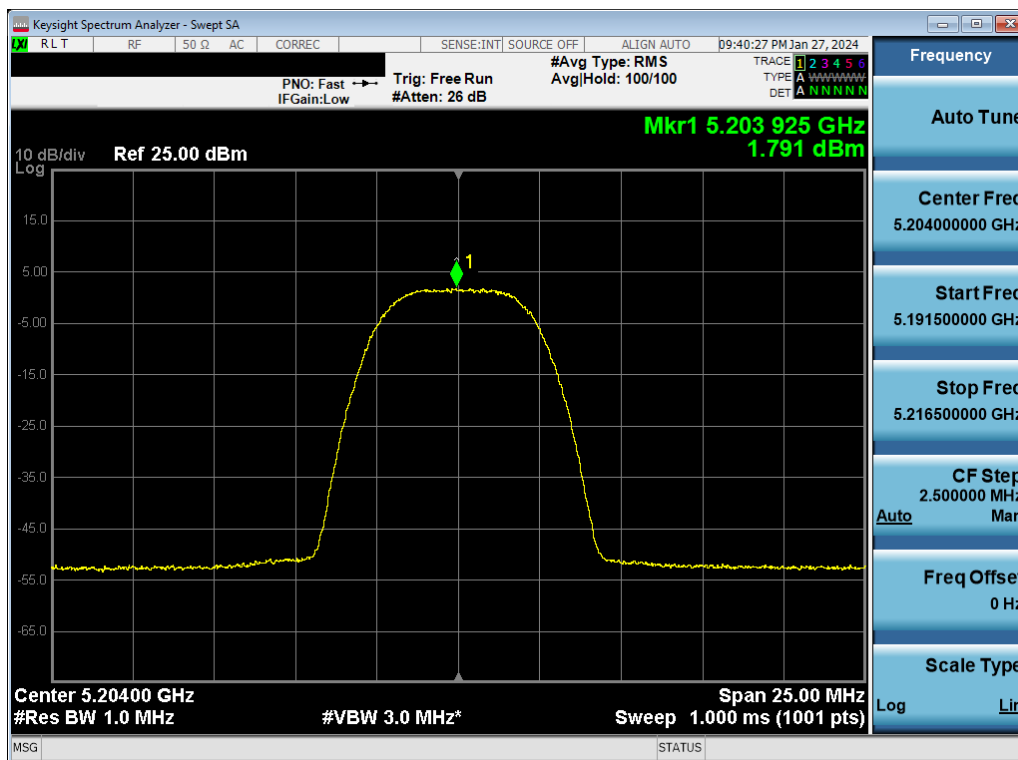
FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-150. ISED PSD TxBF Antenna WF7a (HDR8, ePA – 5204MHz)

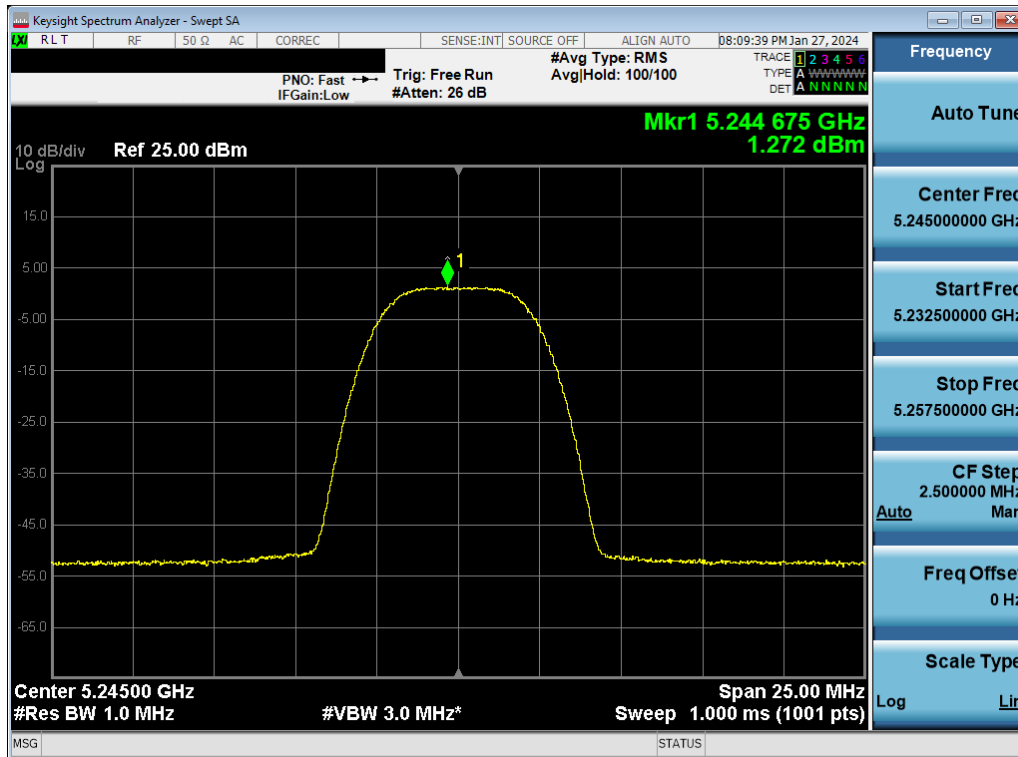


Plot 7-151. ISED PSD TxBF Antenna WF2a (HDR8, ePA – 5204MHz)

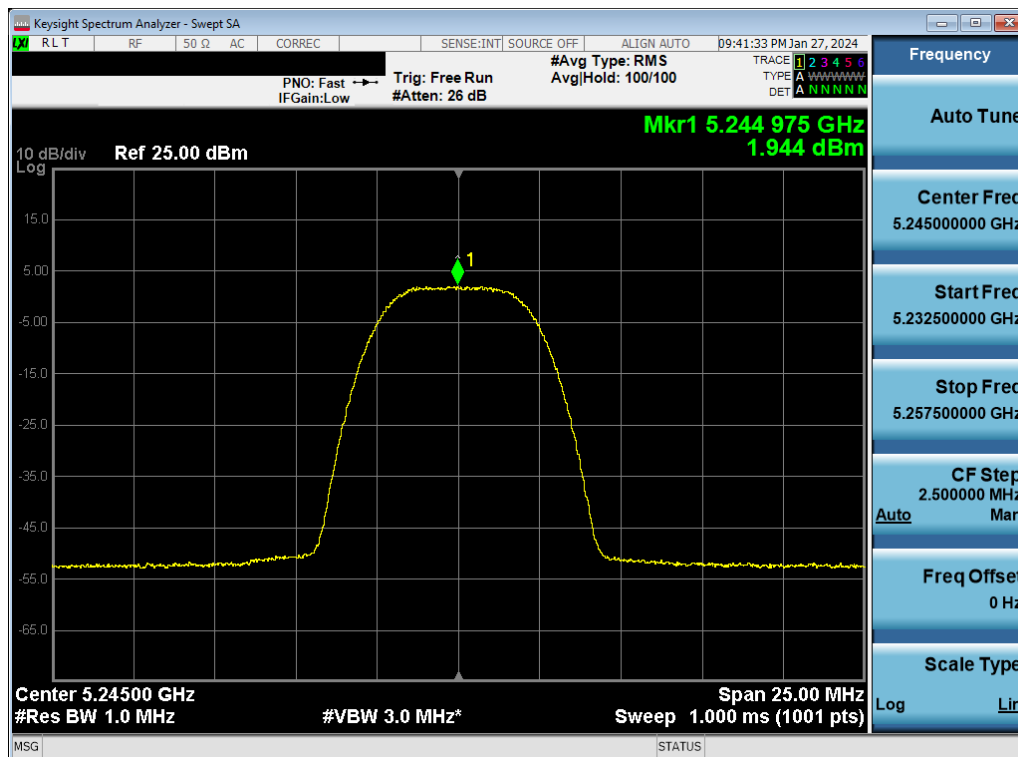
FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 117 of 185

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Plot 7-152. ISED PSD TxBF Antenna WF7a (HDR8, ePA- 5245MHz)

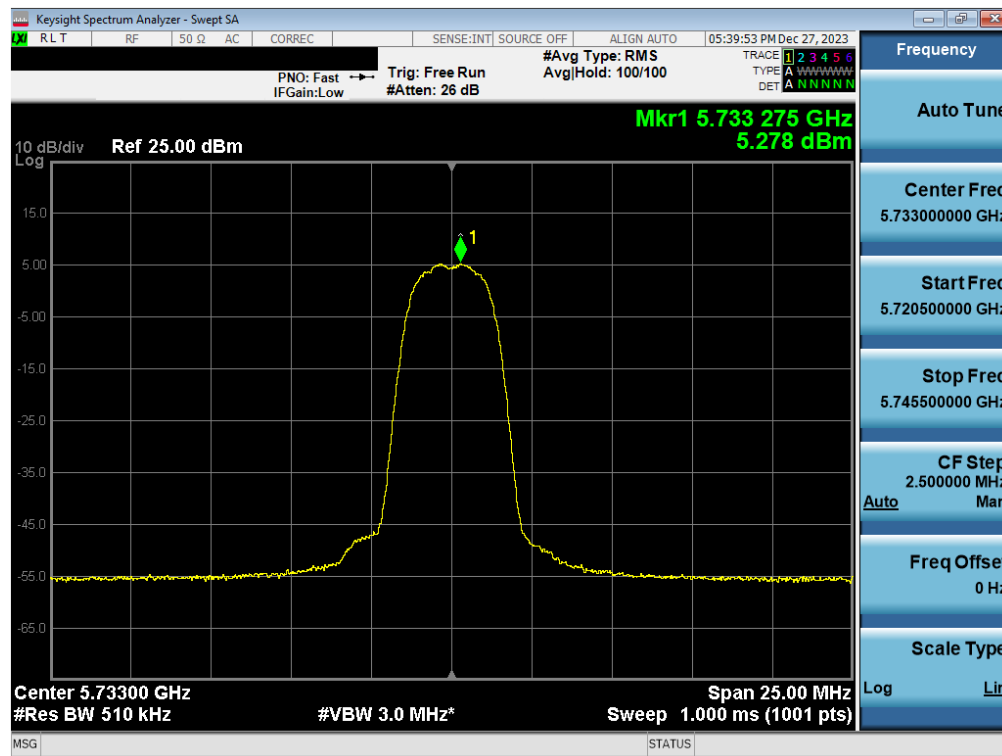


Plot 7-153. ISED PSD TxBF Antenna WF2a (HDR8, ePA- 5245MHz)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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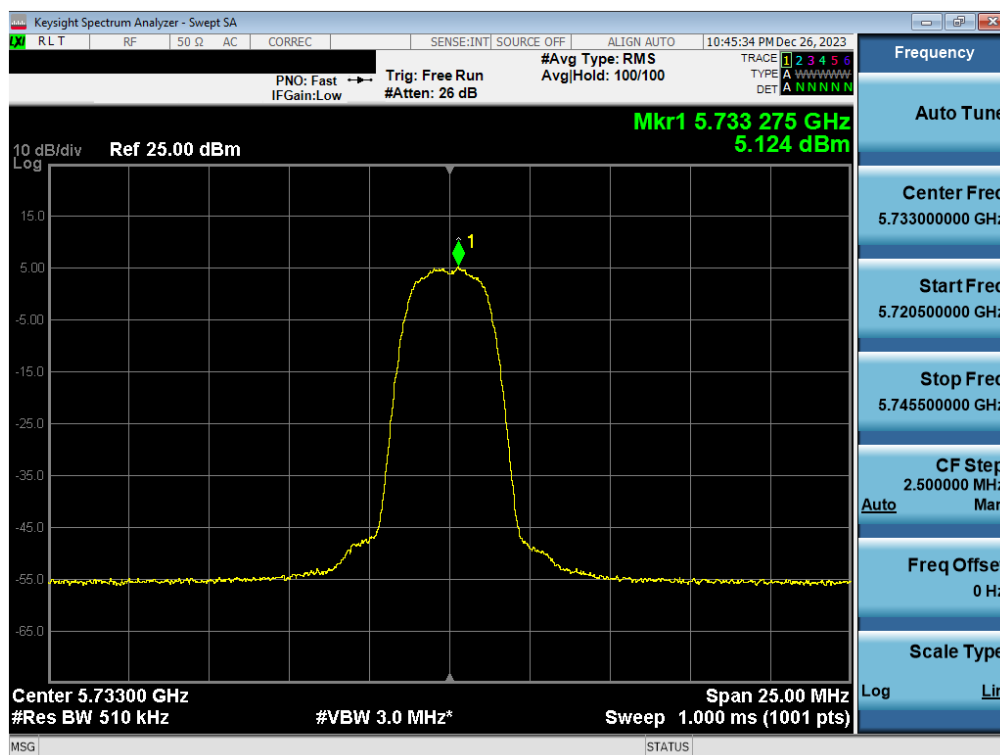
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna WF7a Power Density [dBm/MHz]	Antenna WF2a Power Density [dBm/MHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5733	4.0	HDR4	ePA	5.28	5.12	8.21	30.00	-21.79
	5789	4.0	HDR4	ePA	5.33	4.77	8.07	30.00	-21.93
	5844	4.0	HDR4	ePA	5.58	4.79	8.21	30.00	-21.79
	5733	4.0	HDR4	iPA	-5.11	-6.19	-2.60	30.00	-32.60
	5789	4.0	HDR4	iPA	-4.75	-6.54	-2.54	30.00	-32.54
	5844	4.0	HDR4	iPA	-4.48	-6.34	-2.30	30.00	-32.30
	5733	8.0	HDR8	ePA	2.21	1.86	5.05	30.00	-24.95
	5789	8.0	HDR8	ePA	1.99	1.73	4.87	30.00	-25.13
	5844	8.0	HDR8	ePA	2.61	1.73	5.20	30.00	-24.80
	5733	8.0	HDR8	iPA	-8.38	-9.27	-5.79	30.00	-35.79
	5789	8.0	HDR8	iPA	-7.89	-9.63	-5.66	30.00	-35.66
	5844	8.0	HDR8	iPA	-7.69	-9.43	-5.46	30.00	-35.46

Table 7-27. Power Spectral Density Measurements TxBF

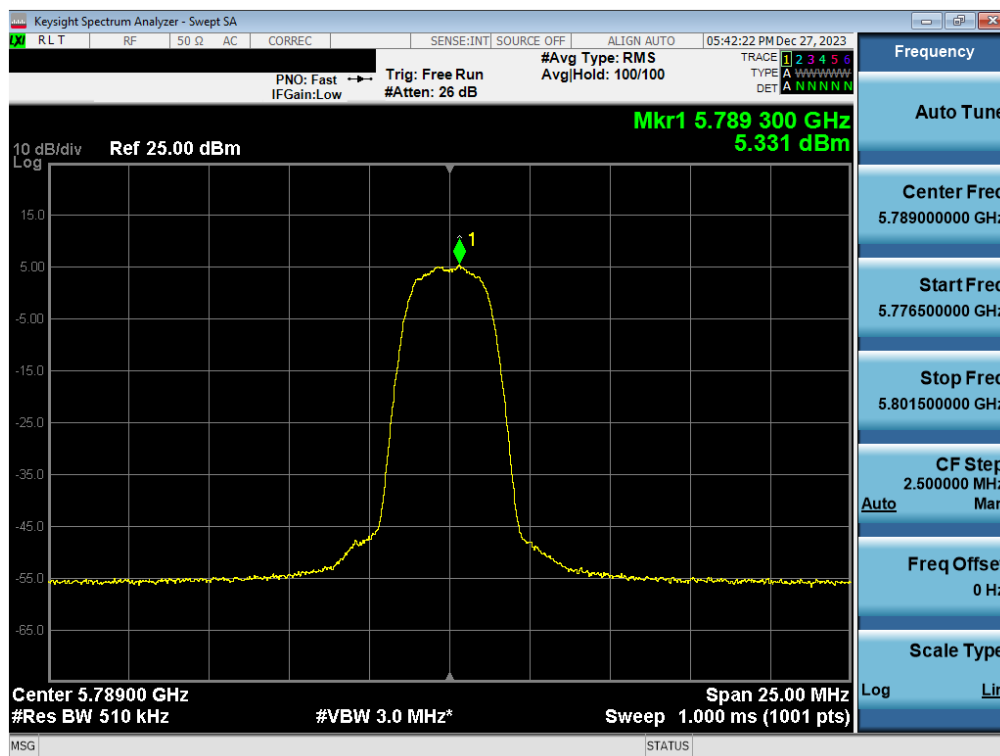


Plot 7-154. PSD TxBF Antenna WF7a (HDR4, ePA 5733MHz)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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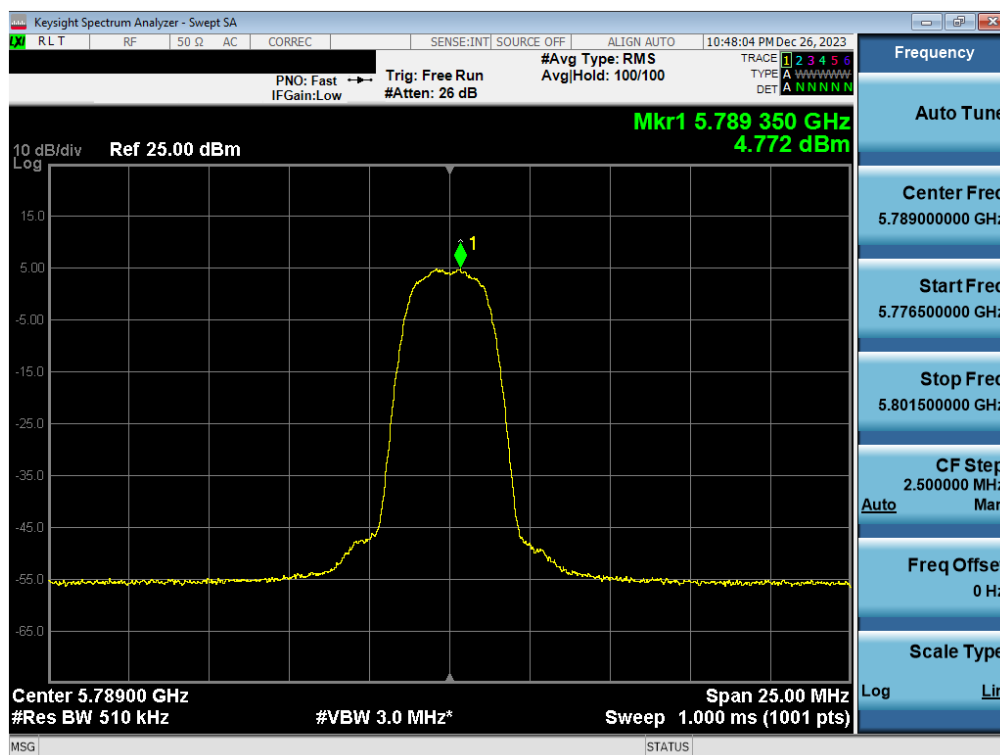
Plot 7-155. PSD TxBF Antenna WF2a (HDR4, ePA 5733MHz)



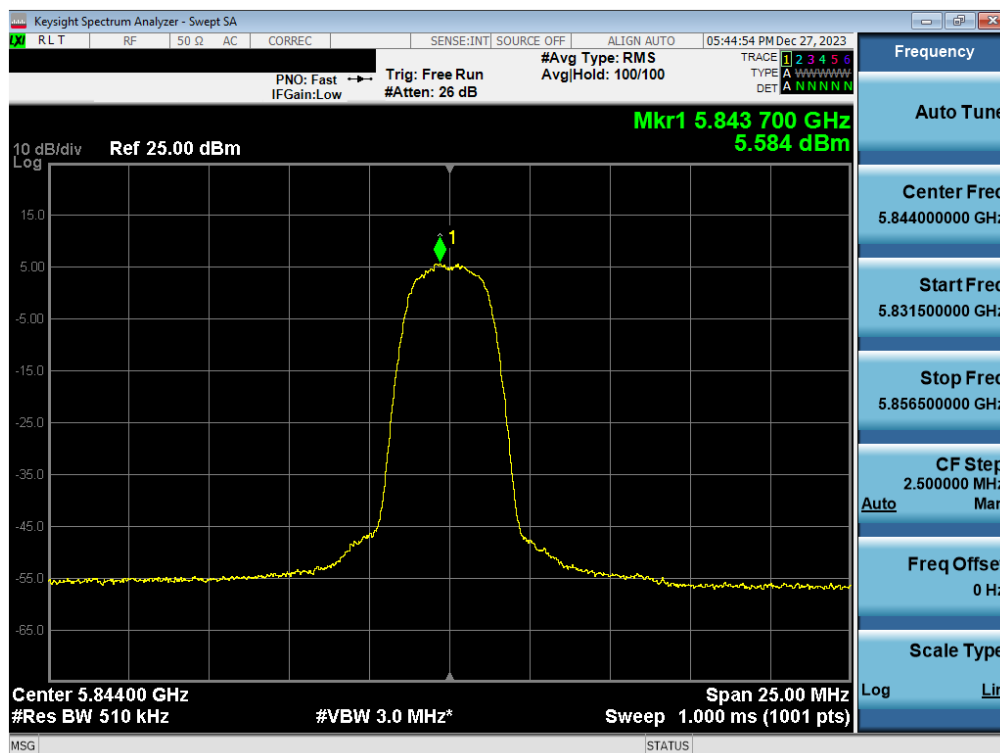
Plot 7-156. PSD TxBF Antenna WF7a (HDR4, ePA 5789MHz)

FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-157. PSD TxBF Antenna WF2a (HDR4, ePA 5789MHz)

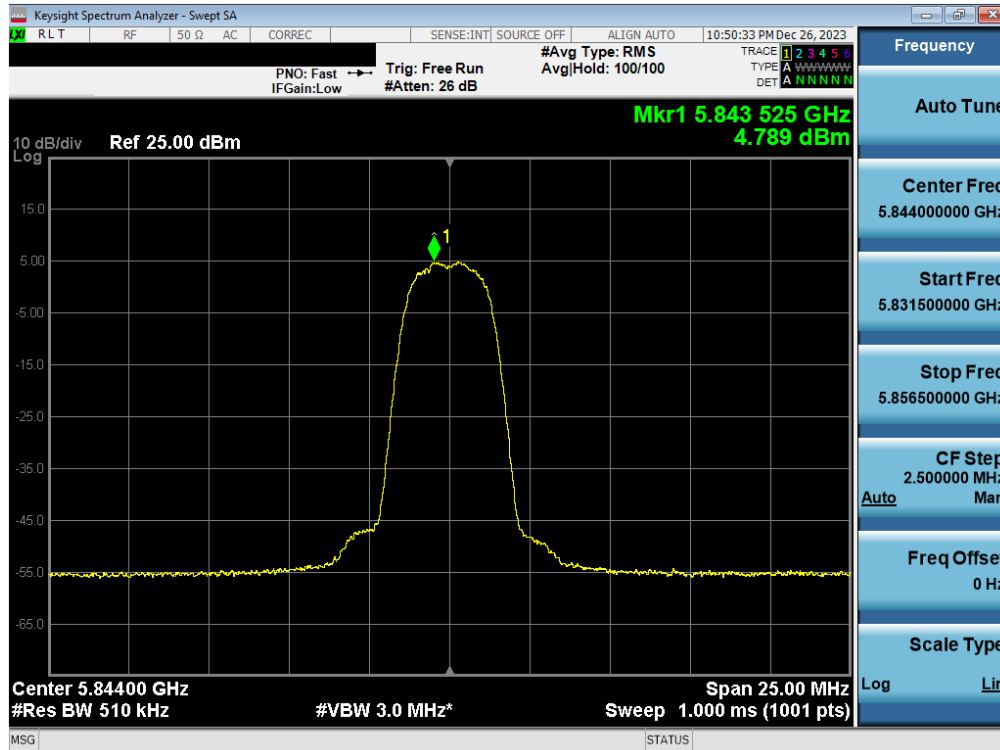


Plot 7-158. PSD TxBF Antenna WF7a (HDR4, ePA 5844MHz)

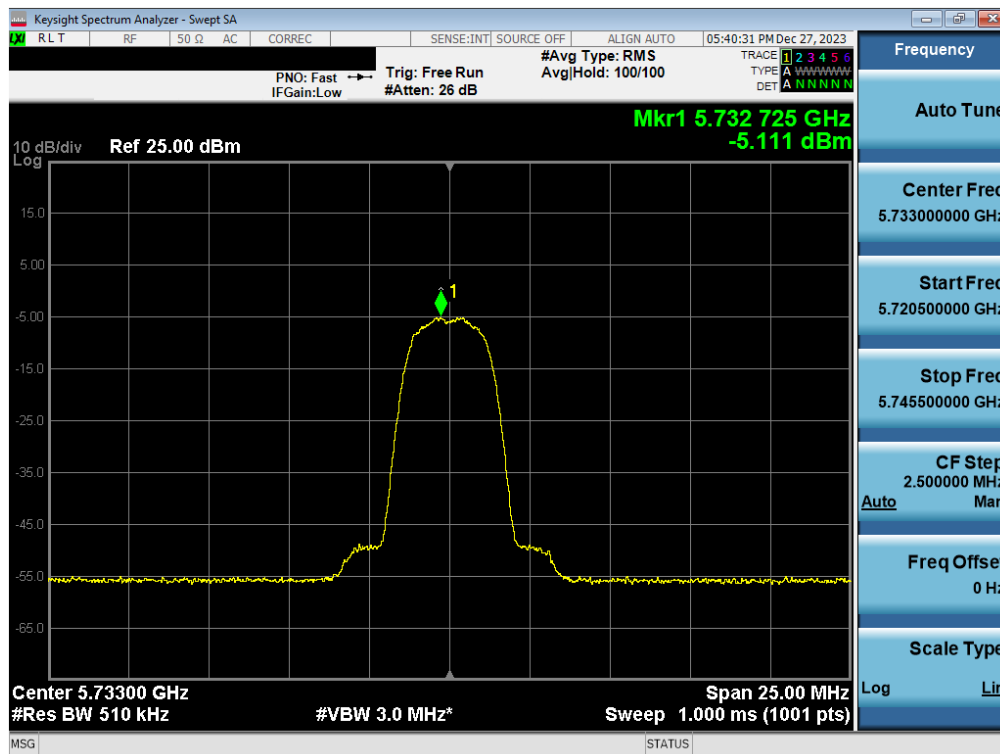
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 121 of 185

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Plot 7-159. PSD TxBF Antenna WF2a (HDR4, ePA 5844MHz)

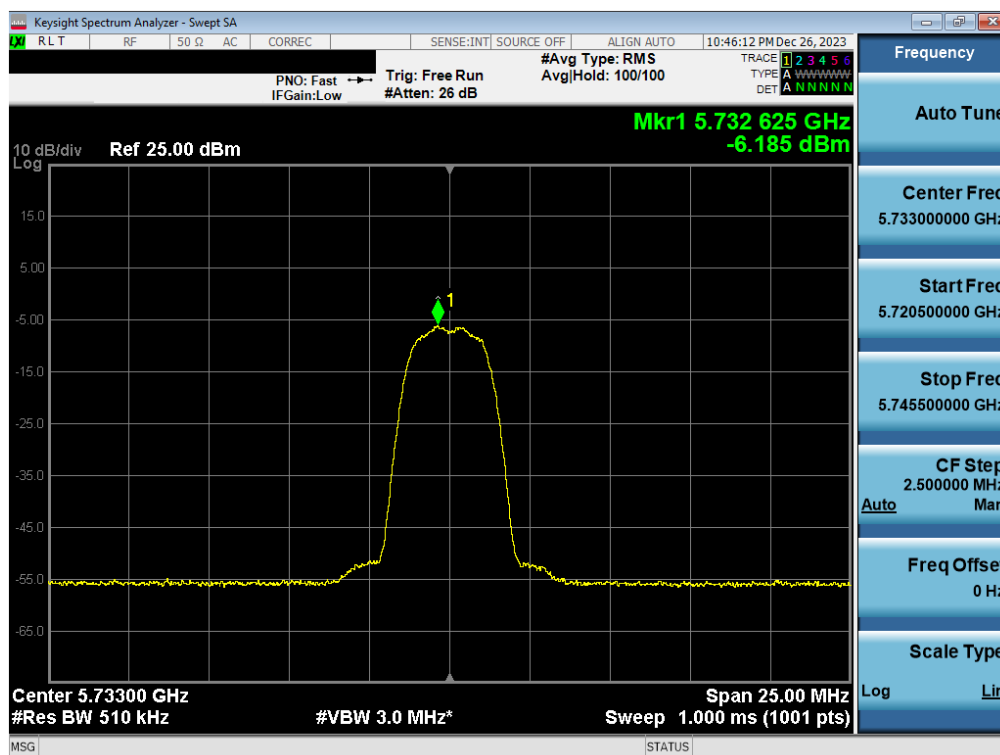


Plot 7-160. PSD TxBF Antenna WF7a (HDR4, iPA 5733MHz)

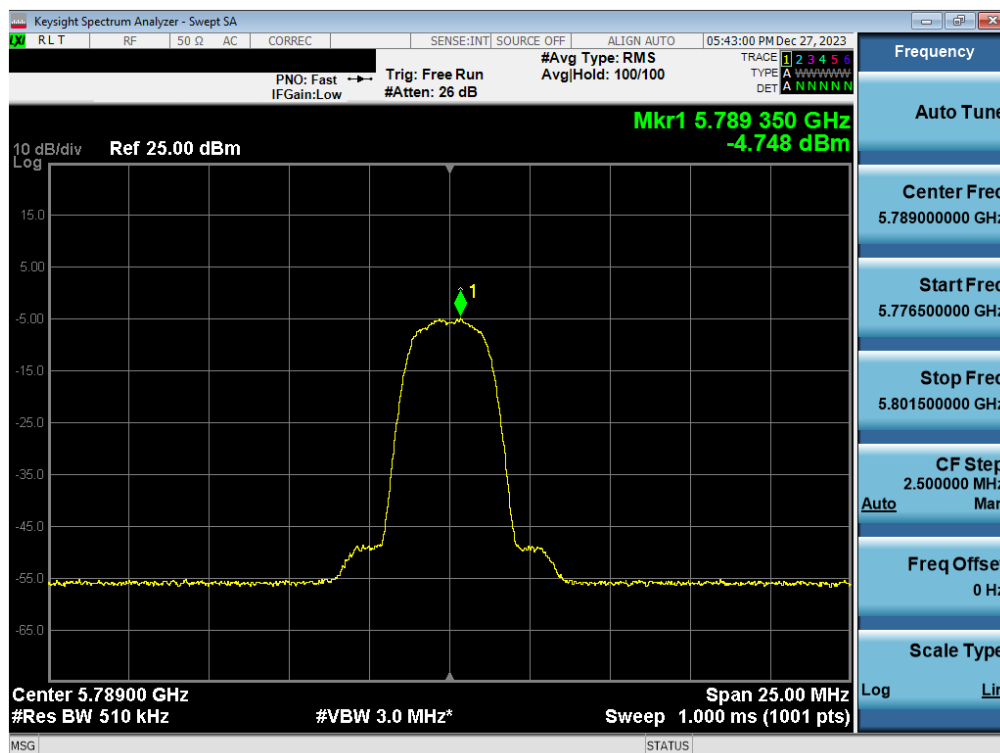
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 122 of 185

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Plot 7-161. PSD TxBF Antenna WF2a (HDR4, iPA 5733MHz)

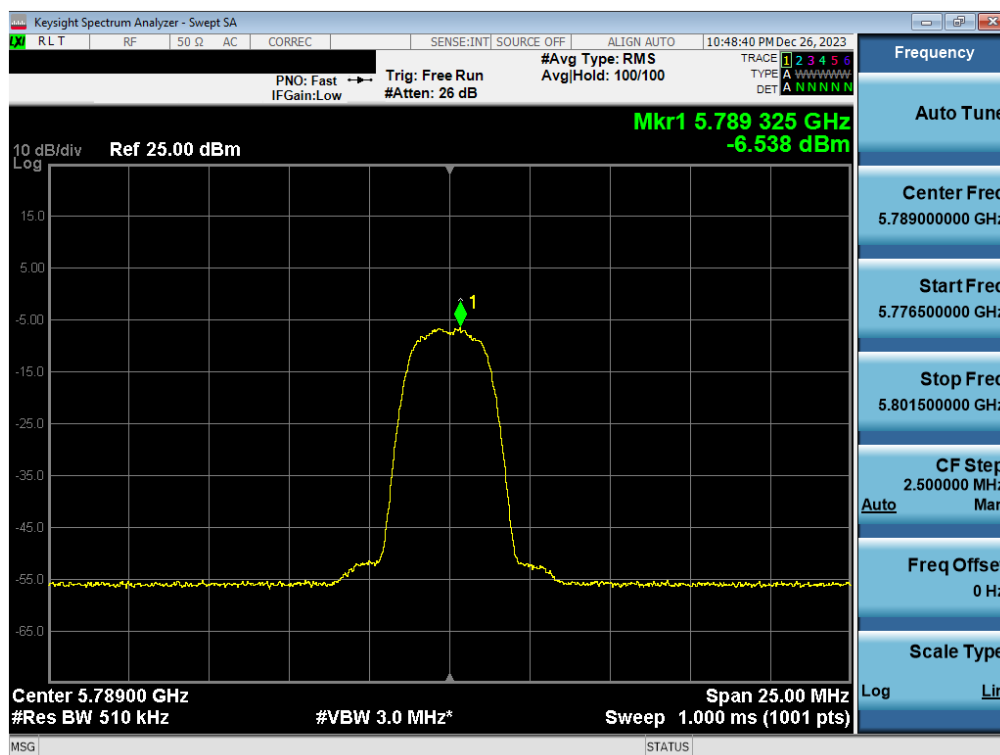


Plot 7-162. PSD TxBF Antenna WF7a (HDR4, iPA 5789MHz)

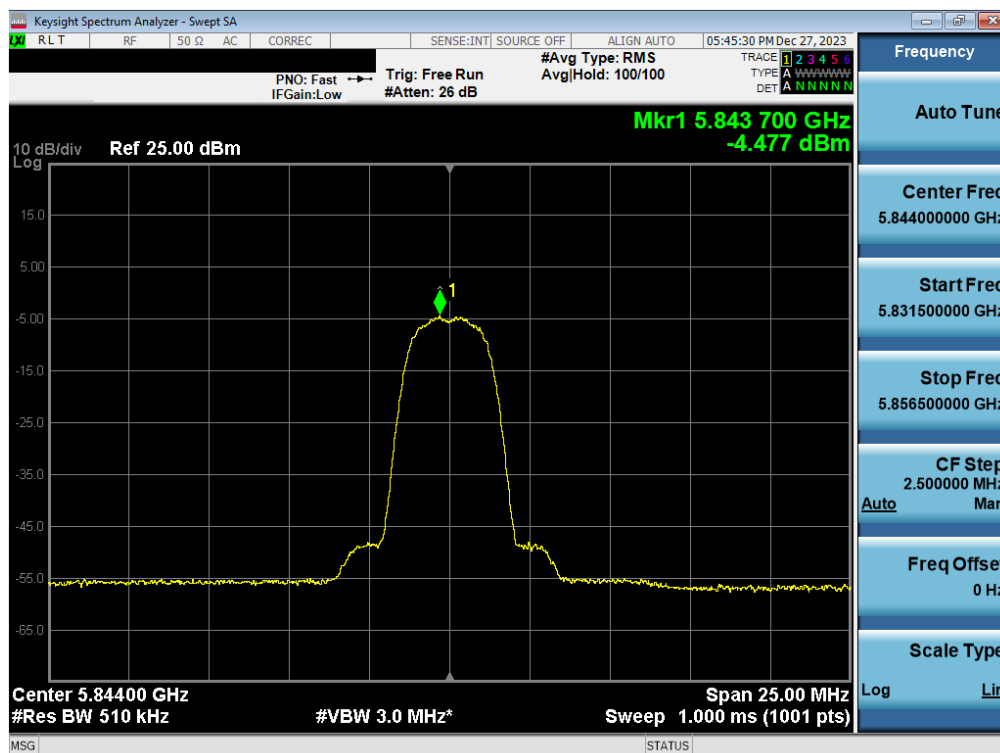
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 123 of 185

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Plot 7-163. PSD TxBF Antenna WF2a (HDR4, iPA 5789MHz)

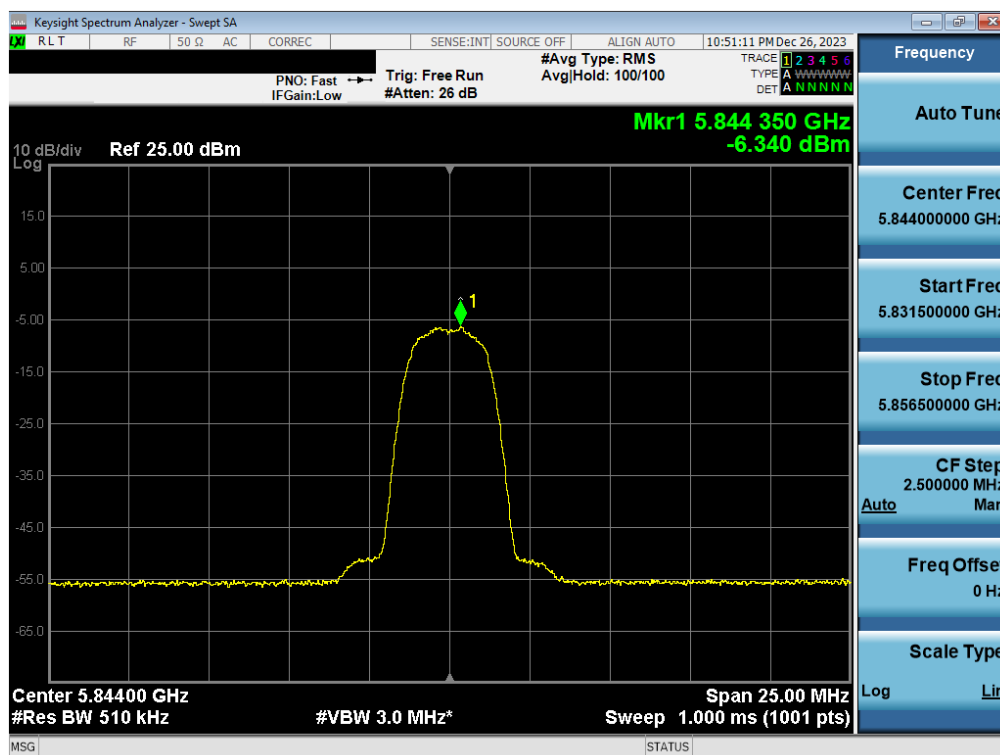


Plot 7-164. PSD TxBF Antenna WF7a (HDR4, iPA 5844MHz)

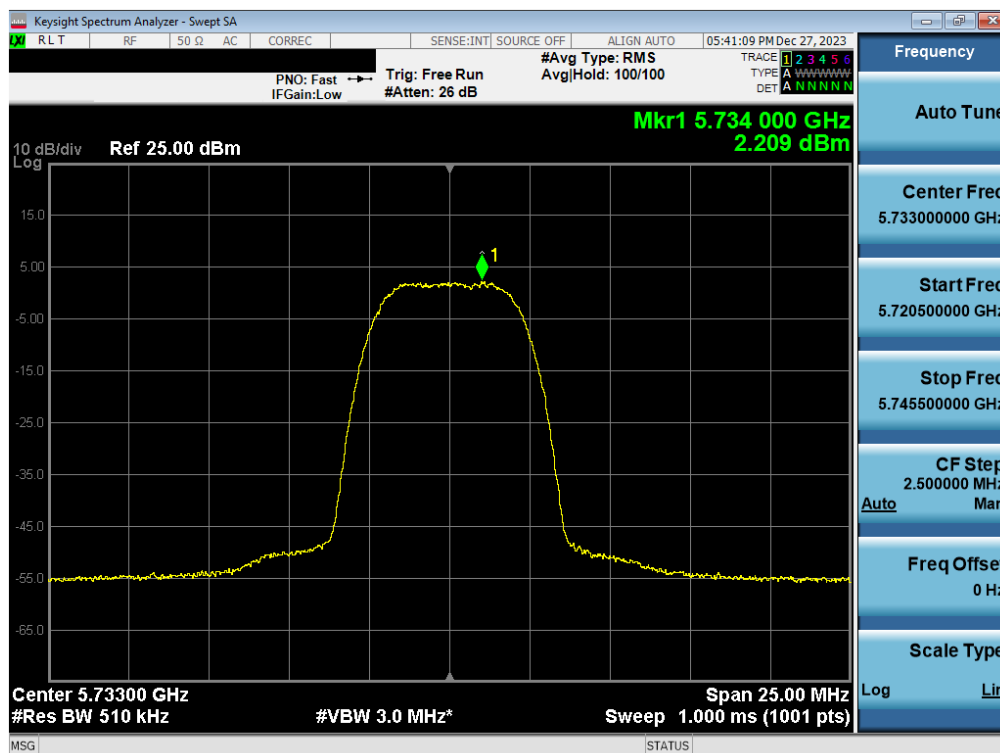
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 124 of 185

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Plot 7-165. PSD TxBF Antenna WF2a (HDR4, iPA 5844MHz)

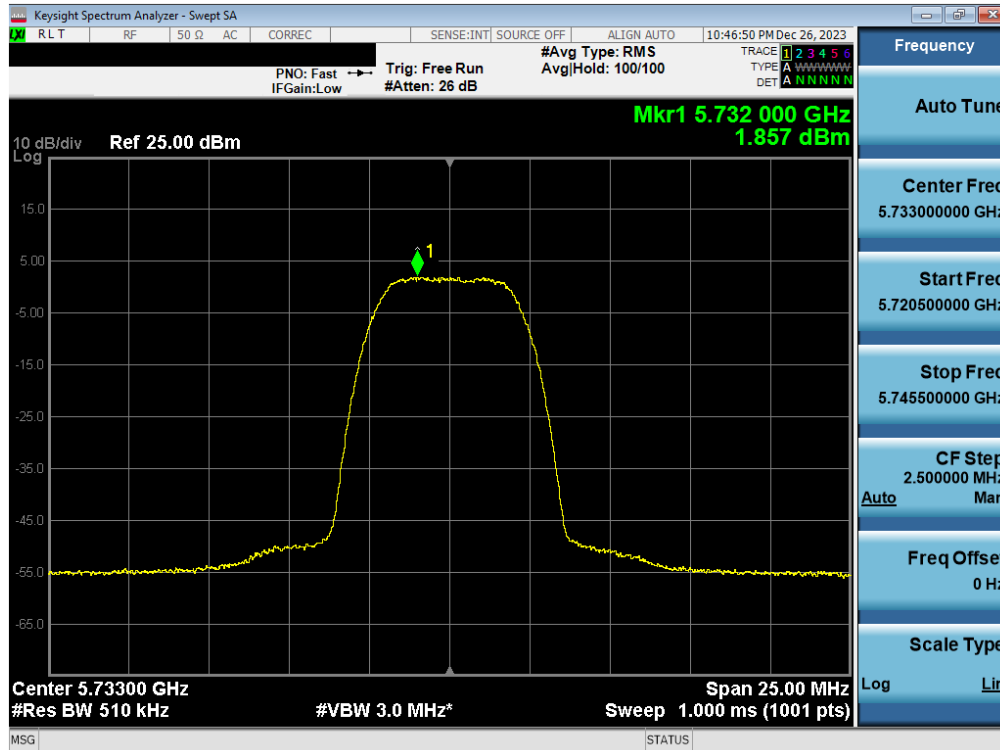


Plot 7-166. PSD TxBF Antenna WF7a (HDR8, ePA 5733MHz)

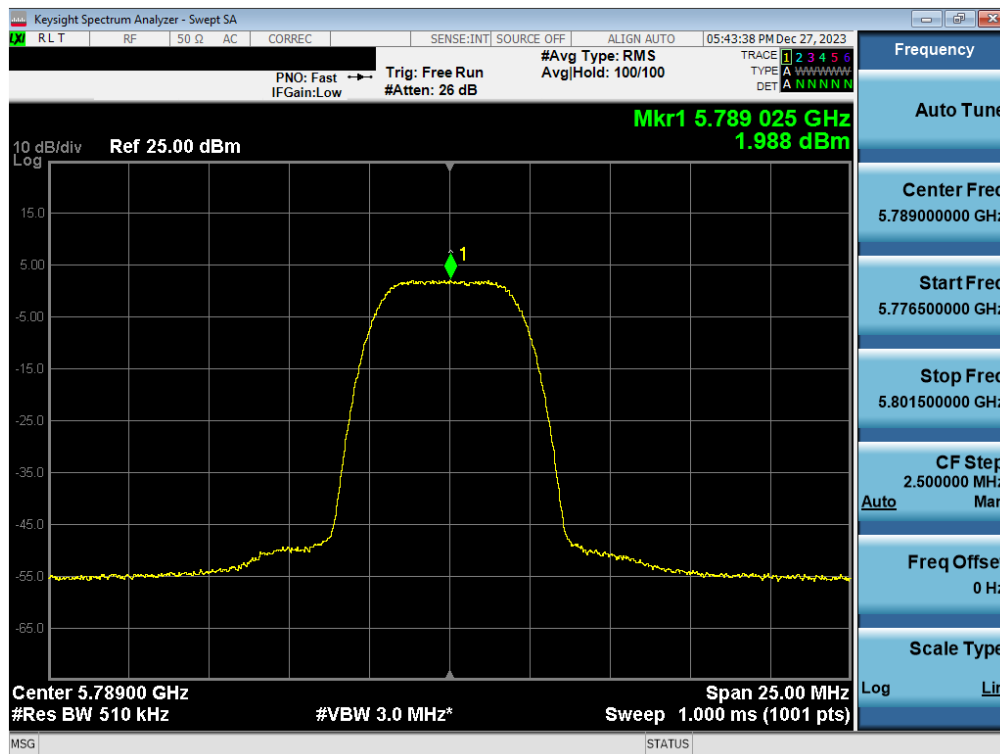
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-167. PSD TxBF Antenna WF2a (HDR8, ePA 5733MHz)

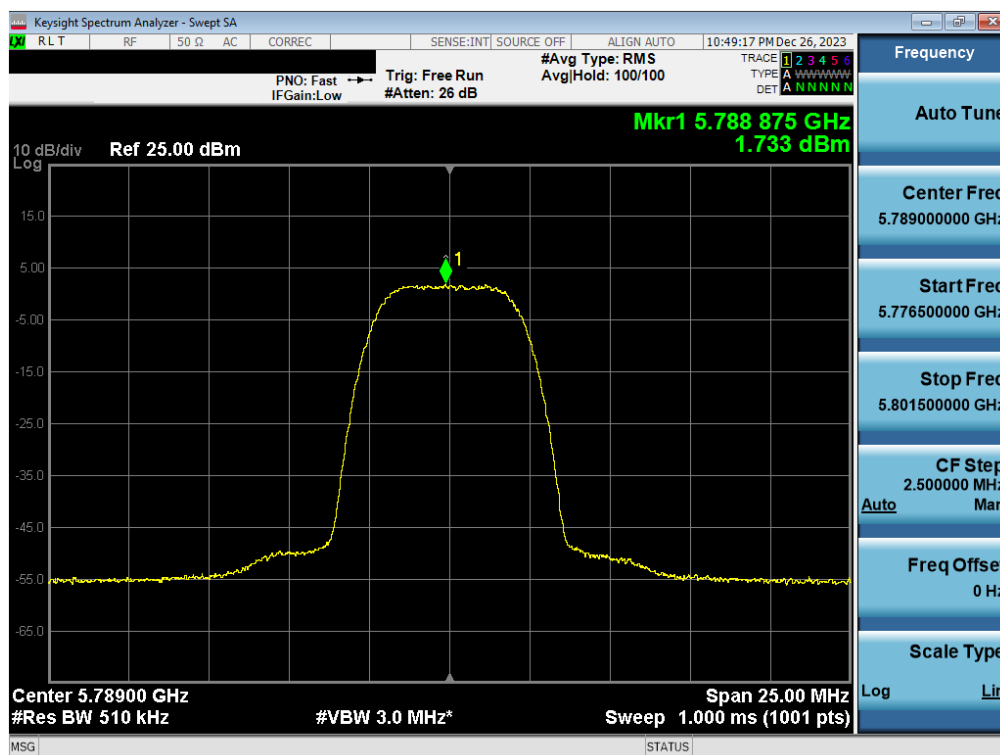


Plot 7-168. PSD TxBF Antenna WF7a (HDR8, ePA 5789MHz)

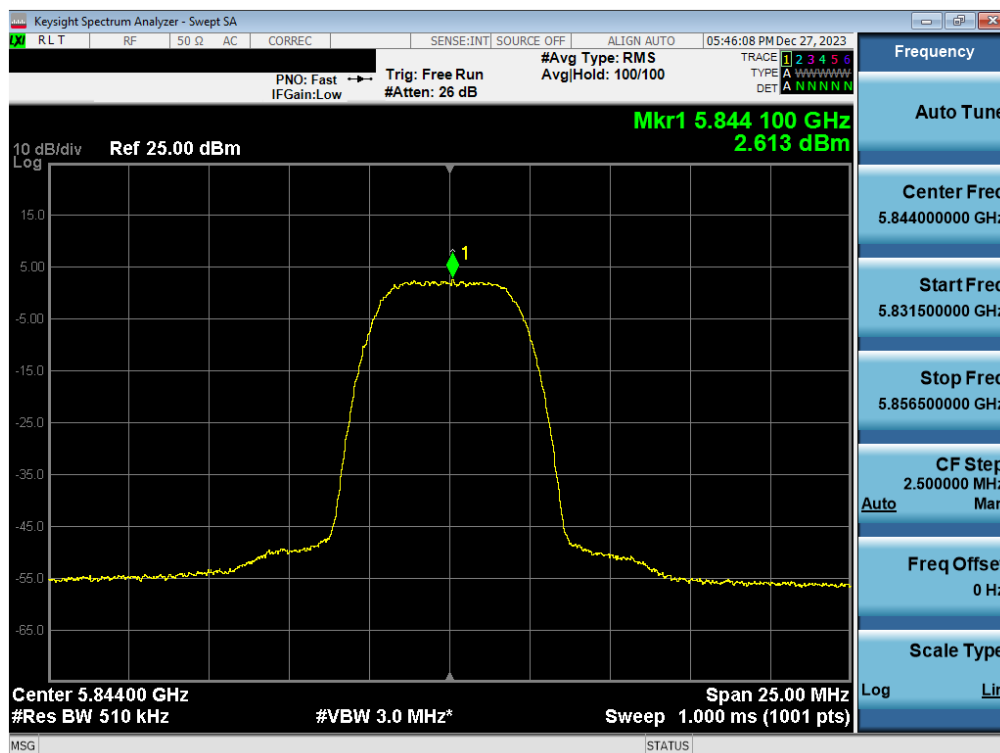
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-169. PSD TxBF Antenna WF2a (HDR8, ePA 5789MHz)

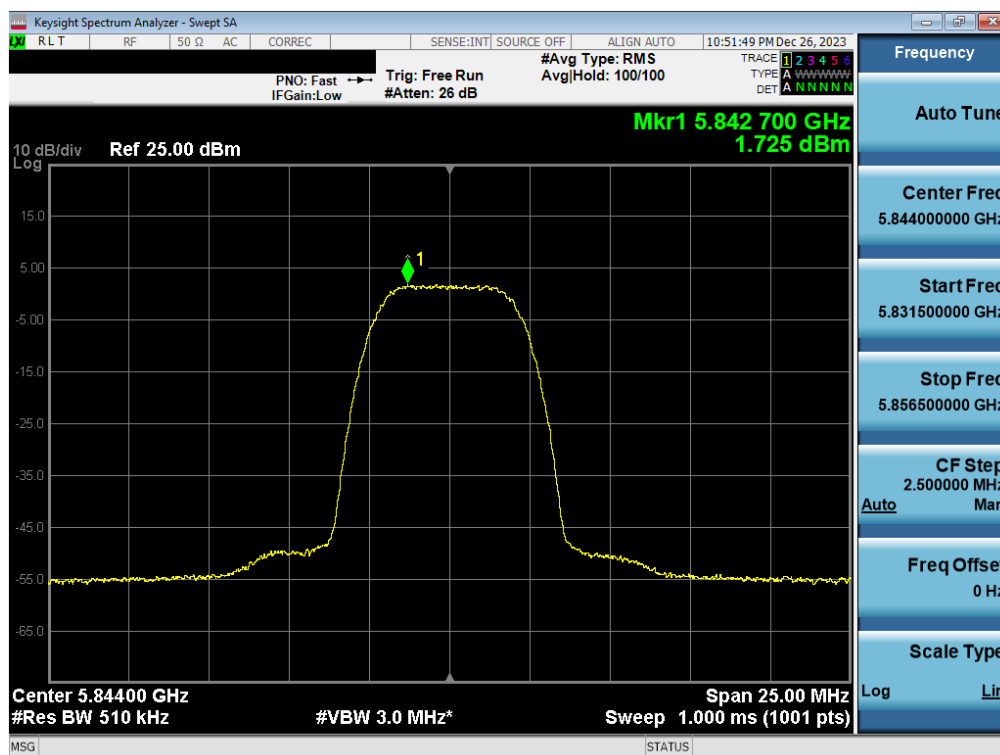


Plot 7-170. PSD TxBF Antenna WF7a (HDR8, ePA 5844MHz)

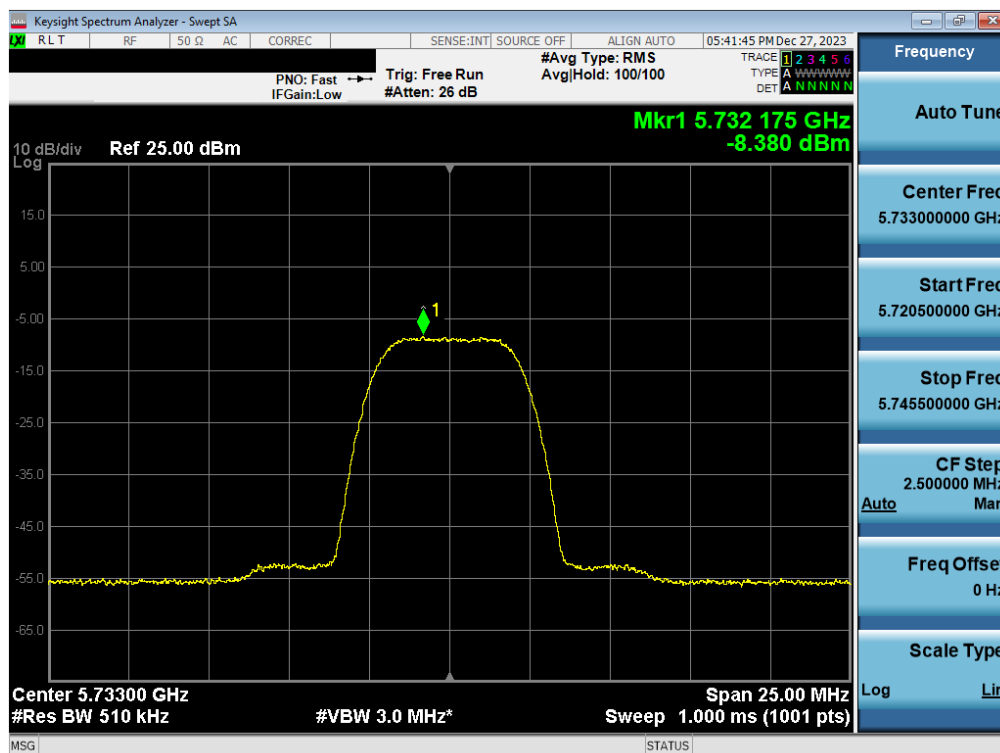
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-171. PSD TxBF Antenna WF2a (HDR8, ePA 5844MHz)

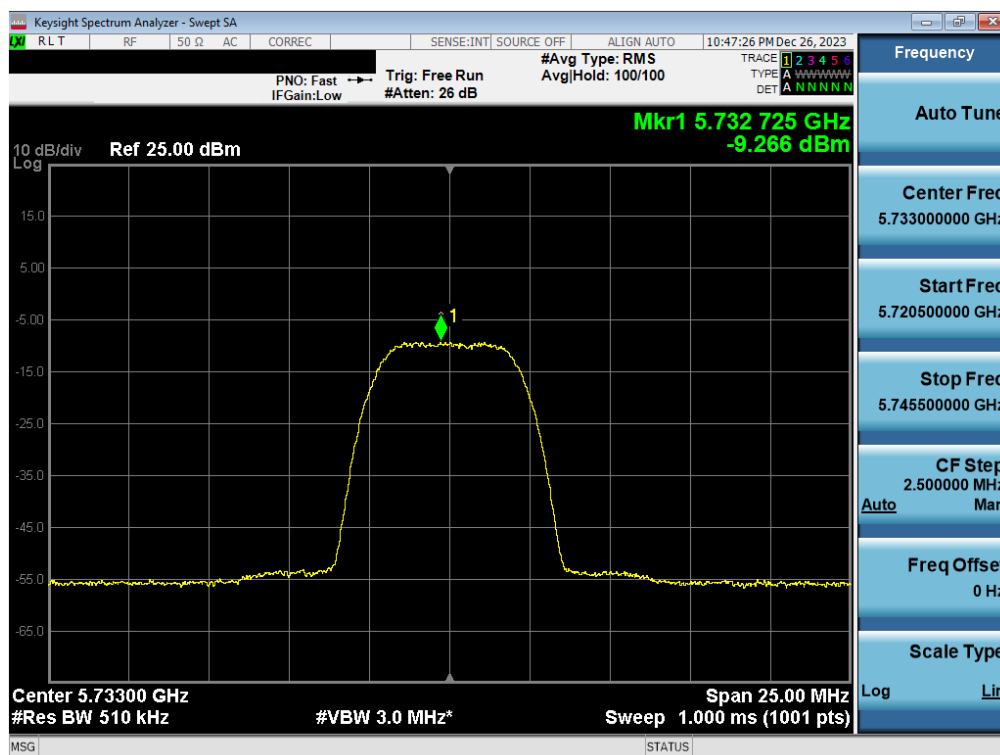


Plot 7-172. PSD TxBF Antenna WF7a (HDR8, iPA 5733MHz)

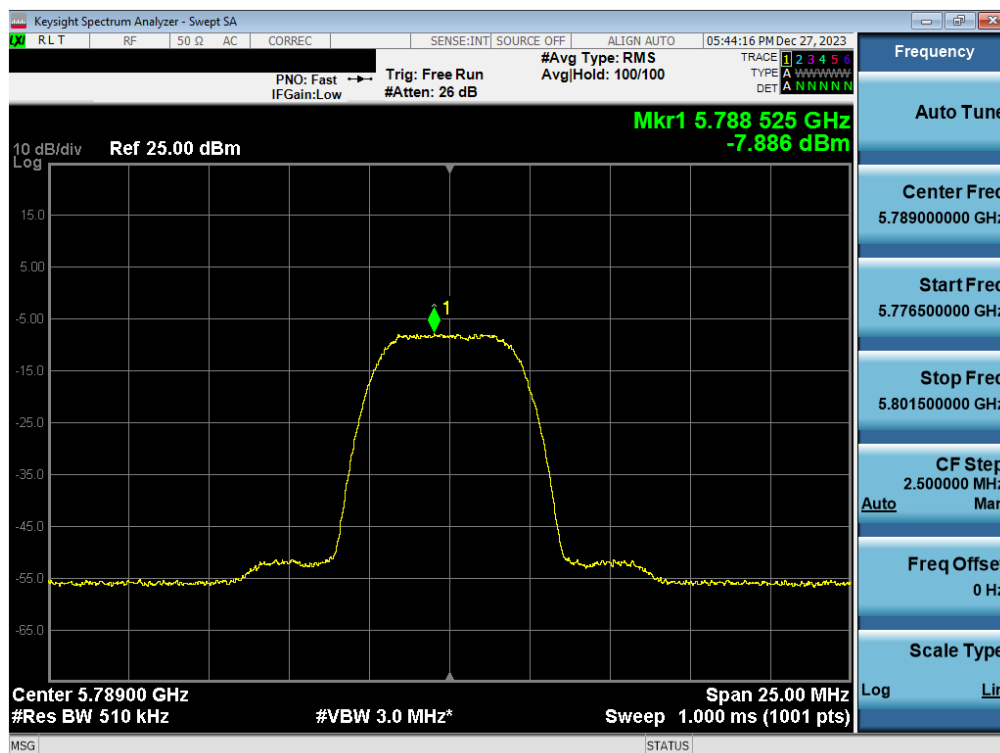
FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-173. PSD TxBF Antenna WF2a (HDR8, iPA 5733MHz)

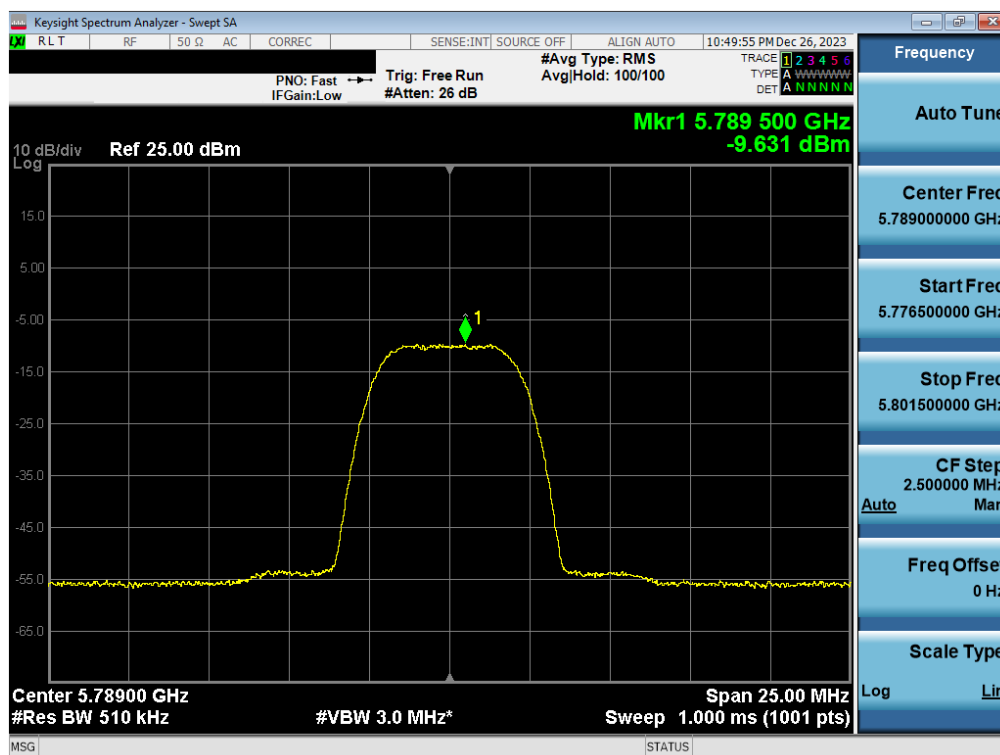


Plot 7-174. PSD TxBF Antenna WF7a (HDR8, iPA 5789MHz)

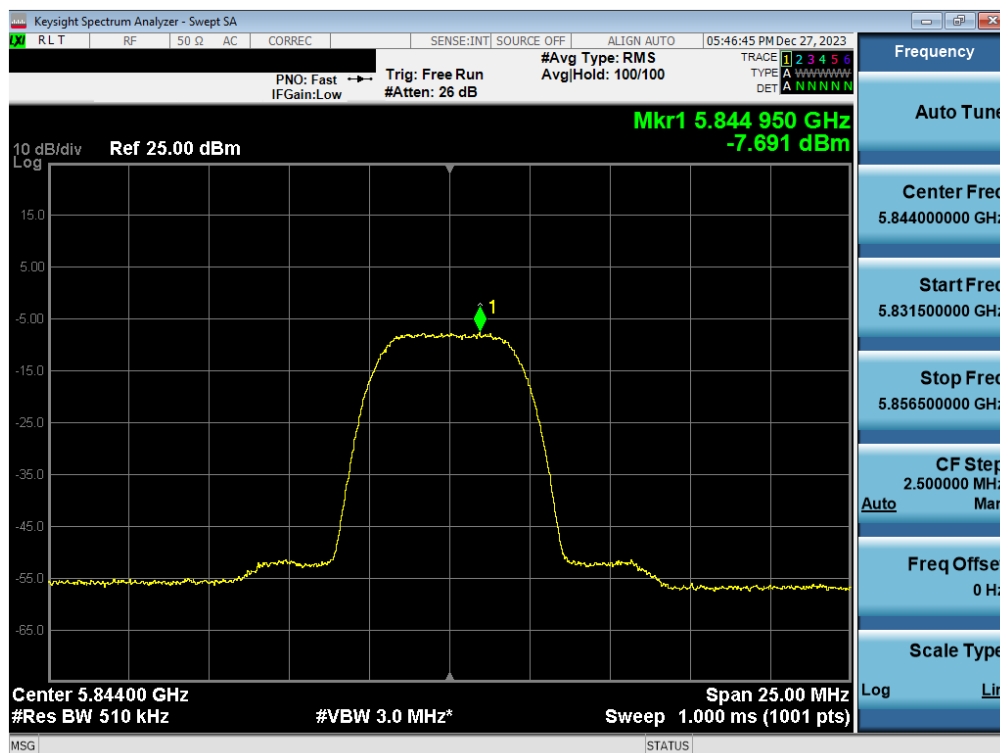
FCC ID: BCGA2898 IC: 579C-A2898	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-175. PSD TxBF Antenna WF2a (HDR8, iPA 5789MHz)

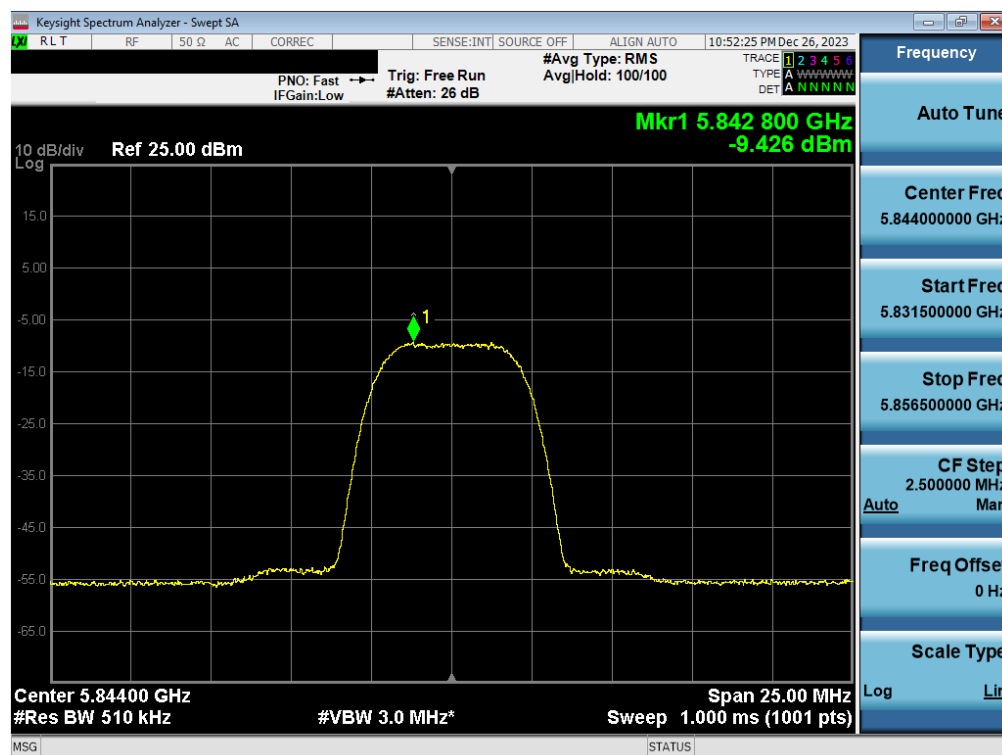


Plot 7-176. PSD TxBF Antenna WF7a (HDR8, iPA 5844MHz)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-177. PSD TxBF Antenna WF2a (HDR8, iPA 5844MHz)

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Note:

Per ANSI C63.10-2013 Subclause 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna WF7a and Antenna WF2a were first measured separately during TxBF transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample TxBF Calculation:

At 5162MHz, the average conducted power spectral density was measured to be 1.37dBm for Antenna WF7a and 0.97dBm for Antenna WF2a.

$$\text{Antenna WF7a} + \text{Antenna WF2a} = \text{TxBF}$$

$$(1.37 \text{ dBm} + 0.97 \text{ dBm}) = (1.371 \text{ mW} + 1.250 \text{ mW}) = 2.621 \text{ mW} = 4.18 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5162MHz, the average conducted power spectral density was measured to be 4.18dBm with an Antenna gain of 3.47 dBi.

$$\text{e.i.r.p. (dBm)} = \text{Conducted Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$4.18 \text{ dBm} + 3.47 \text{ dBi} = 7.65 \text{ dBm}$$

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7.6 Radiated Spurious Emission – Above 1GHz

§15.407(b) §15.205 §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 its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels and power schemes were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725 – 5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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 7-28 per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-28. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Subclauses 12.7.7.2, 12.7.6, 12.7.5

KDB 789033 D02 v02r01 – Section G

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Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

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

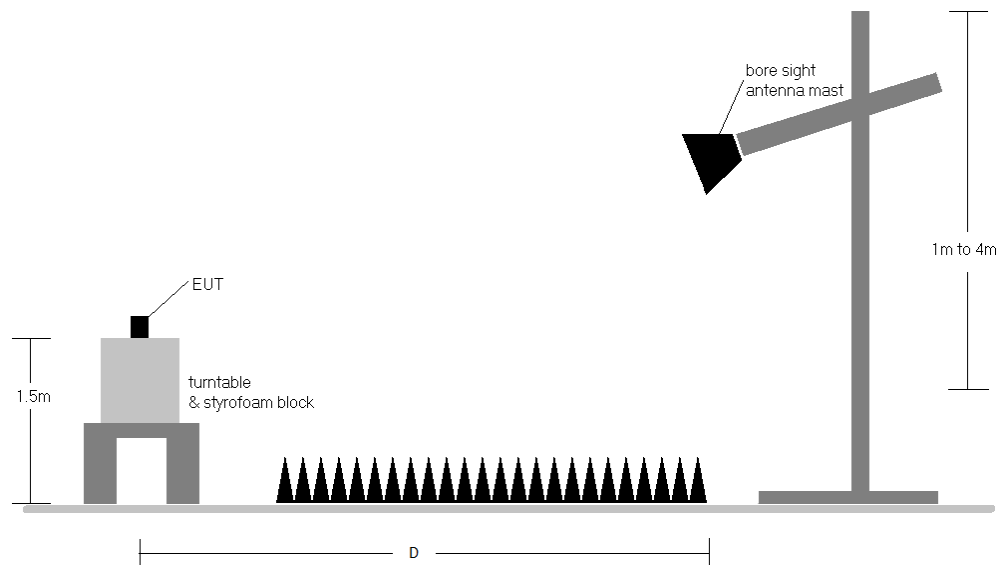


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 7-28.
2. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-28. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB μ V/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dB μ V/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The “-” shown in the following RSE tables are used to denote a noise floor measurement.
8. All supported modulation and power schemes have been tested on the unit and only worst case configuration is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dB μ 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 μ V/m] – Limit [dB μ V/m]

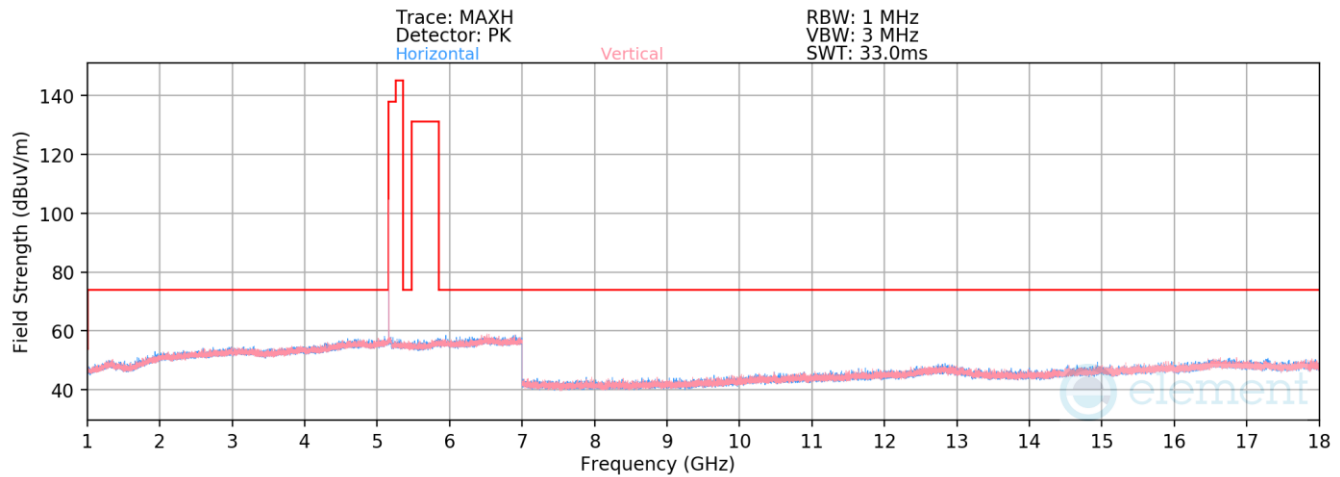
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6.5 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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7.6.1 Antenna WF7a Radiated Spurious Emission (1-18GHz)



Plot 7-178. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5162MHz)

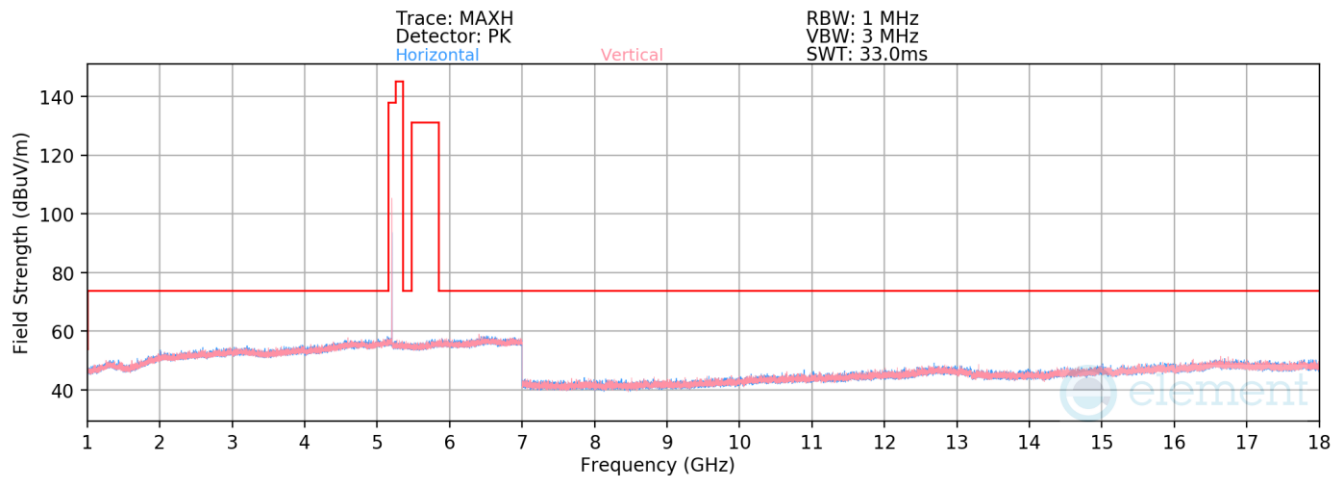
Mode:	HDR4
Data Rate:	4Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10324.00	Peak	V	250	57	-65.93	5.91	46.98	68.20	-21.22
* 15486.00	Average	V	-	-	-81.66	12.24	37.58	53.98	-16.40
* 15486.00	Peak	V	-	-	-70.15	12.24	49.09	73.98	-24.89

Table 7-29. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-179. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5204MHz)

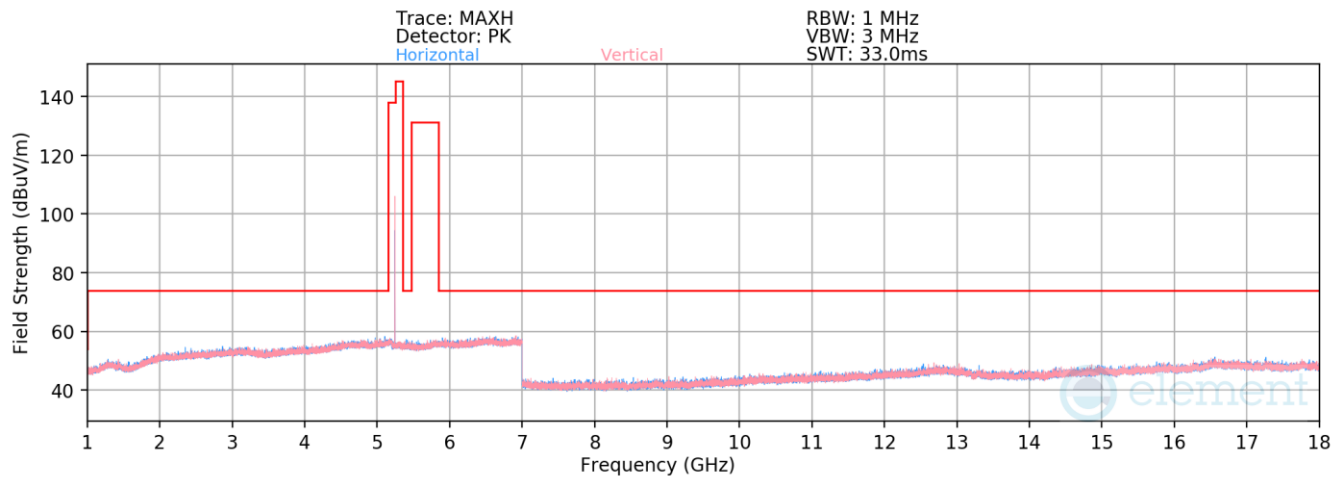
Mode: HDR4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5204MHz

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	V	249	68	-65.07	6.27	48.20	68.20	-20.00
* 15612.00	Average	V	-	-	-81.28	12.66	38.38	53.98	-15.60
* 15612.00	Peak	V	-	-	-70.41	12.66	49.25	73.98	-24.73

Table 7-30. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-180. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5245MHz)

Mode: HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

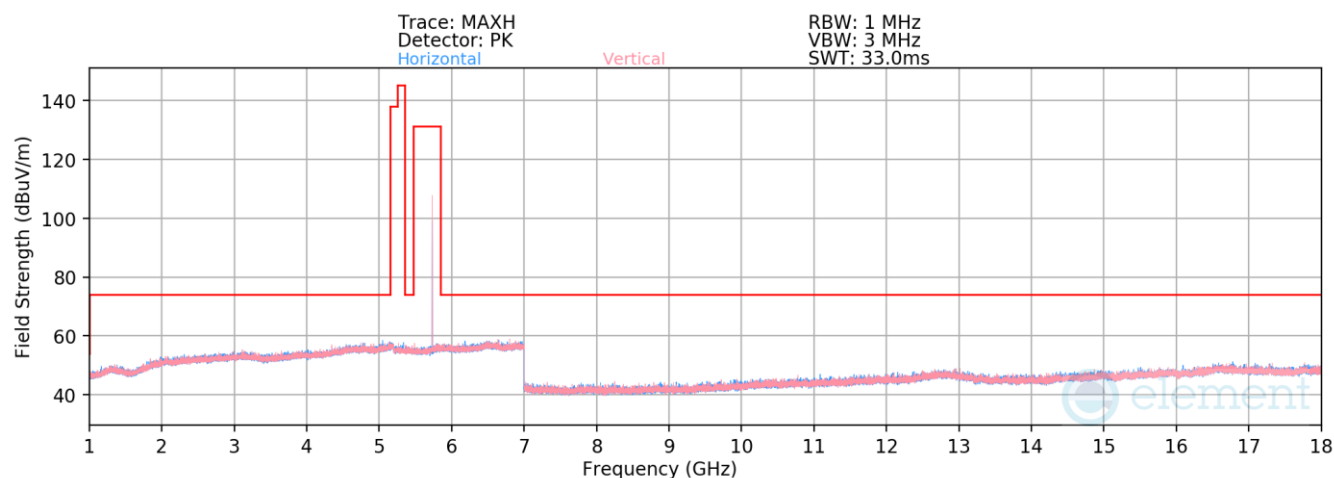
Operating Frequency: 5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10490.00	Peak	V	243	72	-67.03	6.51	46.48	68.20	-21.72
* 15735.00	Average	V	-	-	-81.93	13.10	38.17	53.98	-15.81
* 15735.00	Peak	V	-	-	-70.24	13.10	49.86	73.98	-24.12

Table 7-31. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-181. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5733MHz)

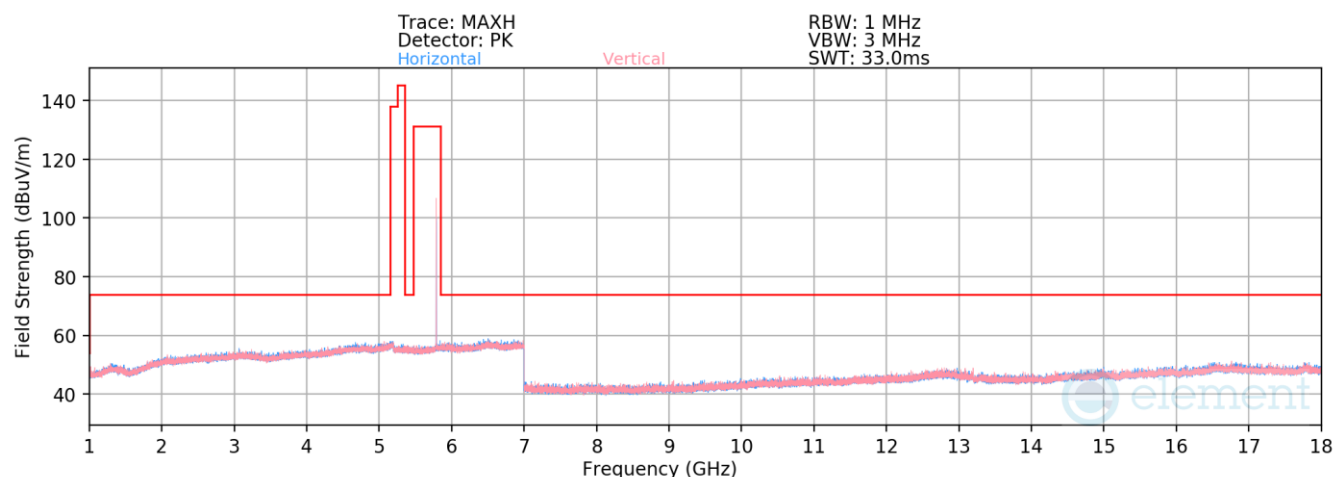
Mode: HDR4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5733MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11466.00	Average	V	-	-	-79.50	7.47	34.97	53.98	-19.01
* 11466.00	Peak	V	-	-	-68.56	7.47	45.91	73.98	-28.07
17199.00	Peak	V	-	-	-71.69	14.96	50.27	68.20	-17.93

Table 7-32. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-182. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5789MHz)

Mode: HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

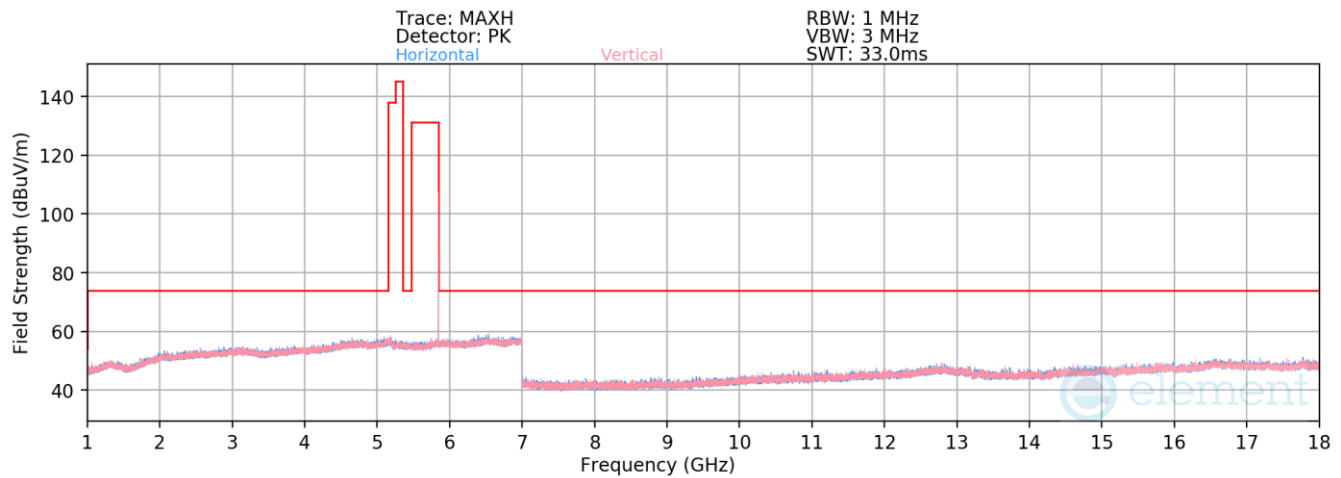
Operating Frequency: 5789MHz

	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	V	-	-	-79.17	7.44	35.27	53.98	-18.71
*	11578.00	Peak	V	-	-	-67.57	7.44	46.87	73.98	-27.11
	17367.00	Peak	V	-	-	-71.52	14.88	50.36	68.20	-17.84

Table 7-33. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-183. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5844MHz)

Mode: HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5844MHz

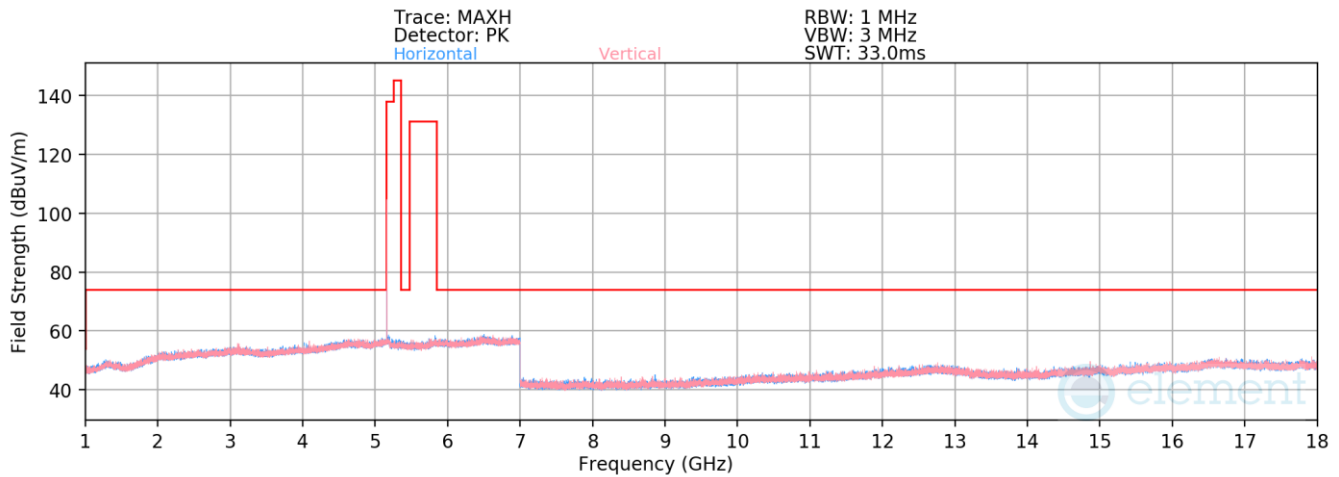
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11688.00	Average	V	250	147	-77.20	7.86	37.66	53.98	-16.32
11688.00	Peak	V	250	147	-67.87	7.86	46.99	73.98	-26.99
17532.00	Peak	V	-	-	-71.55	15.50	50.95	68.20	-17.25

Table 7-34. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.6.2 Antenna WF2a Radiated Spurious Emission (1-18GHz)



Plot 7-184. Radiated Spurious Emissions 1-18GHz Antenna WF2a (HDR4, ePA – 5162MHz)

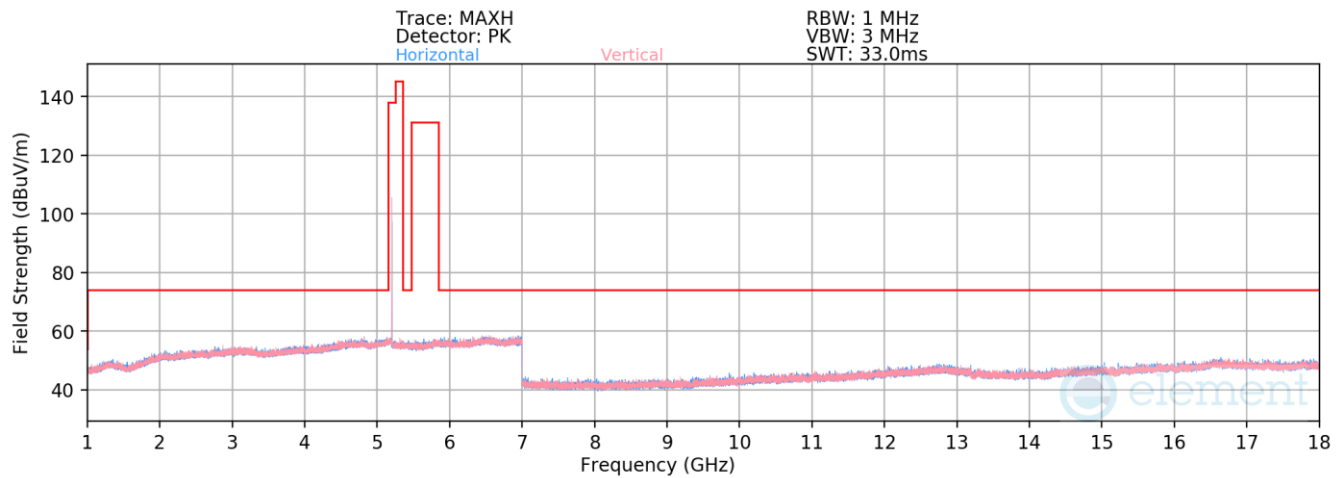
Mode:	HDR4
Data Rate:	4Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10324.00	Peak	V	-	-	-67.12	5.91	45.79	68.20	-22.41
* 15486.00	Average	V	-	-	-81.71	12.24	37.53	53.98	-16.45
* 15486.00	Peak	V	-	-	-70.27	12.24	48.97	73.98	-25.01

Table 7-35. Radiated Spurious Emissions Measurements Antenna WF2a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-185. Radiated Spurious Emissions 1-18GHz Antenna WF2a (HDR4, ePA – 5204MHz)

Mode: HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

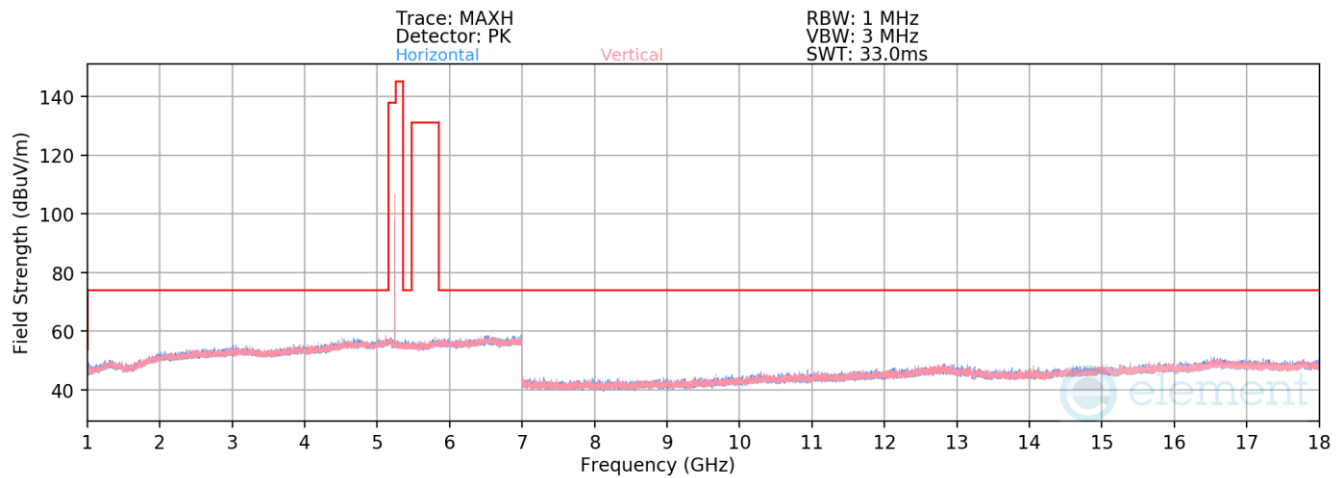
Operating Frequency: 5204MHz

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	V	-	-	-67.50	6.27	45.77	68.20	-22.43
* 15612.00	Average	V	-	-	-81.57	12.66	38.09	53.98	-15.89
* 15612.00	Peak	V	-	-	-69.96	12.66	49.70	73.98	-24.28

Table 7-36. Radiated Spurious Emissions Measurements Antenna WF2a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-186. Radiated Spurious Emissions 1-18GHz Antenna WF2a (HDR4, ePA – 5245MHz)

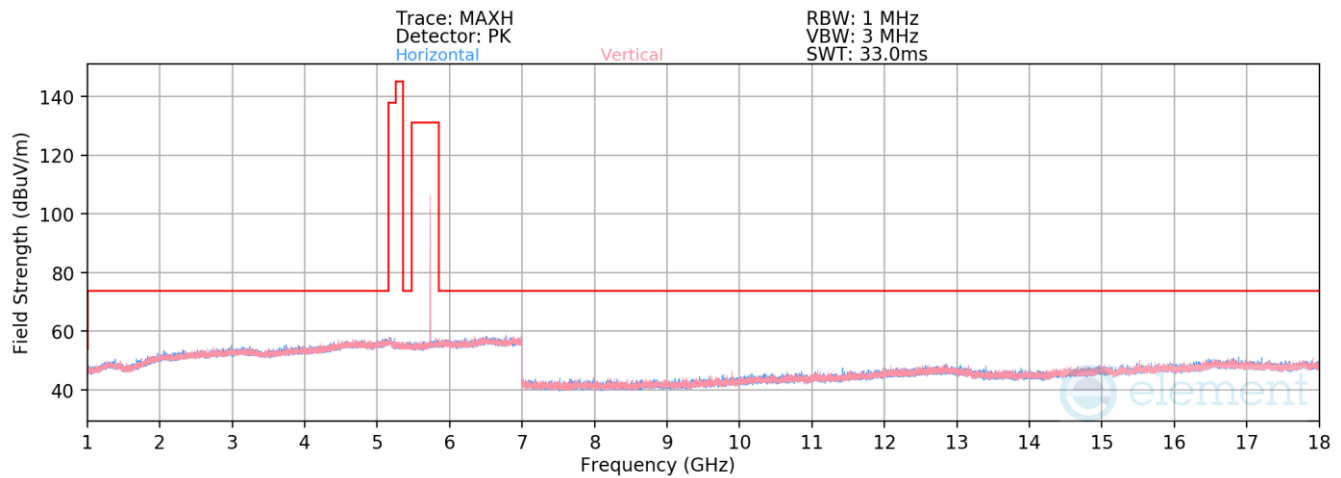
Mode: HDR4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5245MHz

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	V	-	-	-67.58	6.51	45.93	68.20	-22.27
* 15735.00	Average	V	-	-	-81.99	13.10	38.11	53.98	-15.87
* 15735.00	Peak	V	-	-	-70.41	13.10	49.69	73.98	-24.29

Table 7-37. Radiated Spurious Emissions Measurements Antenna WF2a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-187. Radiated Spurious Emissions 1-18GHz Antenna WF2a (HDR4, ePA – 5733MHz)

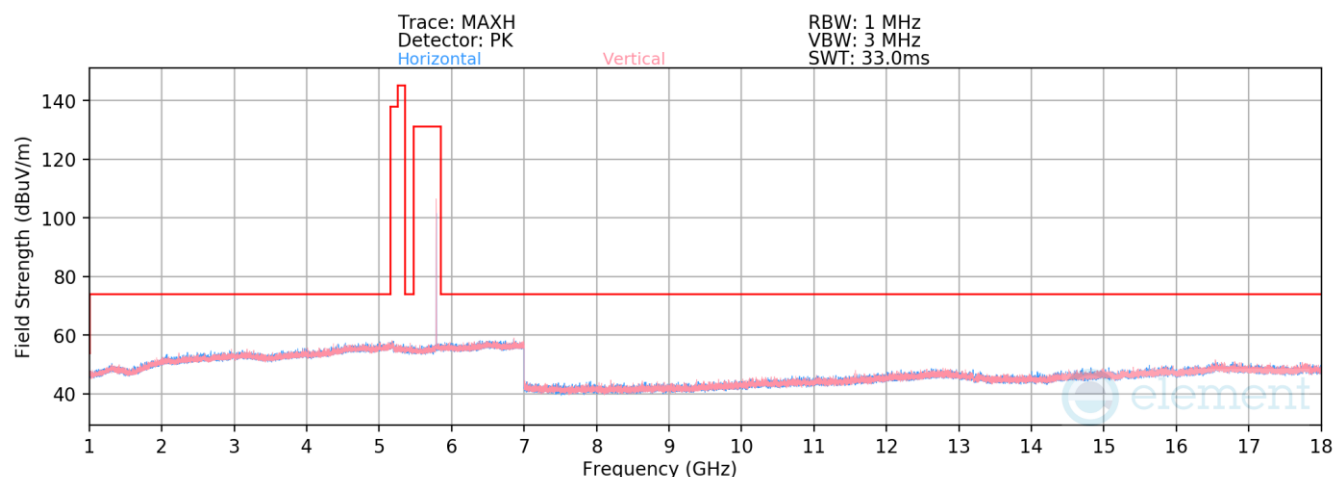
Mode: HDR4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5733MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	11466.00	Average	V	-	-	-79.59	7.47	34.88	53.98	-19.10
*	11466.00	Peak	V	-	-	-68.46	7.47	46.01	73.98	-27.97
	17199.00	Peak	V	-	-	-70.65	14.96	51.31	68.20	-16.89

Table 7-38. Radiated Spurious Emissions Measurements Antenna WF2a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-188. Radiated Spurious Emissions 1-18GHz Antenna WF2a (HDR4, ePA – 5789MHz)

Mode: HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

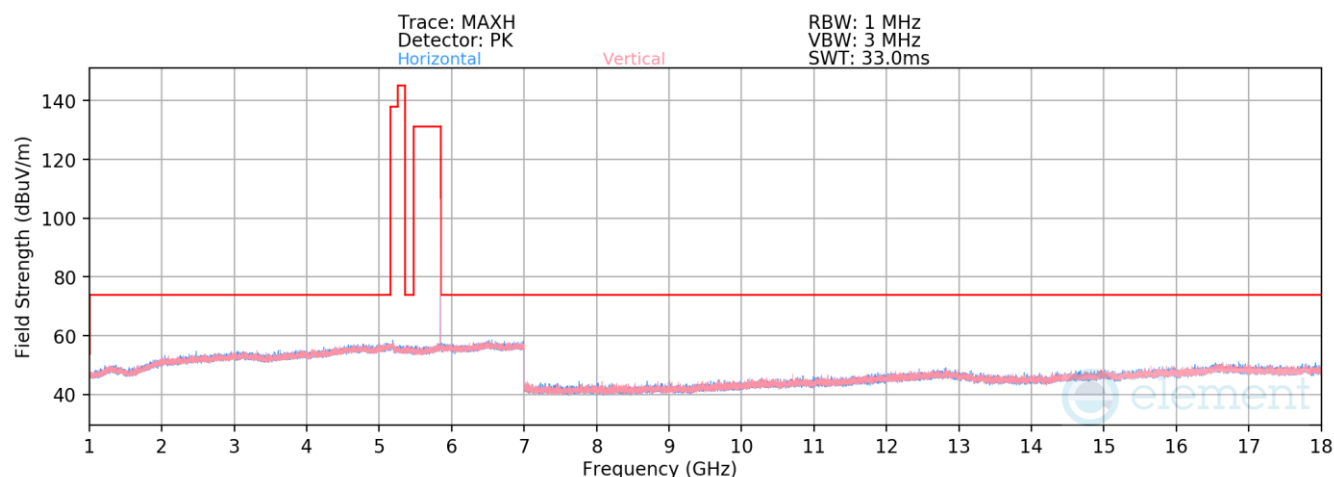
Operating Frequency: 5789MHz

	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	V	-	-	-79.13	7.44	35.31	53.98	-18.67
*	11578.00	Peak	V	-	-	-67.63	7.44	46.81	73.98	-27.17
	17367.00	Peak	V	-	-	-71.32	14.88	50.56	68.20	-17.64

Table 7-39. Radiated Spurious Emissions Measurements Antenna WF2a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 146 of 185

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Plot 7-189. Radiated Spurious Emissions 1-18GHz Antenna WF2a (HDR4, ePA – 5844MHz)

Mode: HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5844MHz

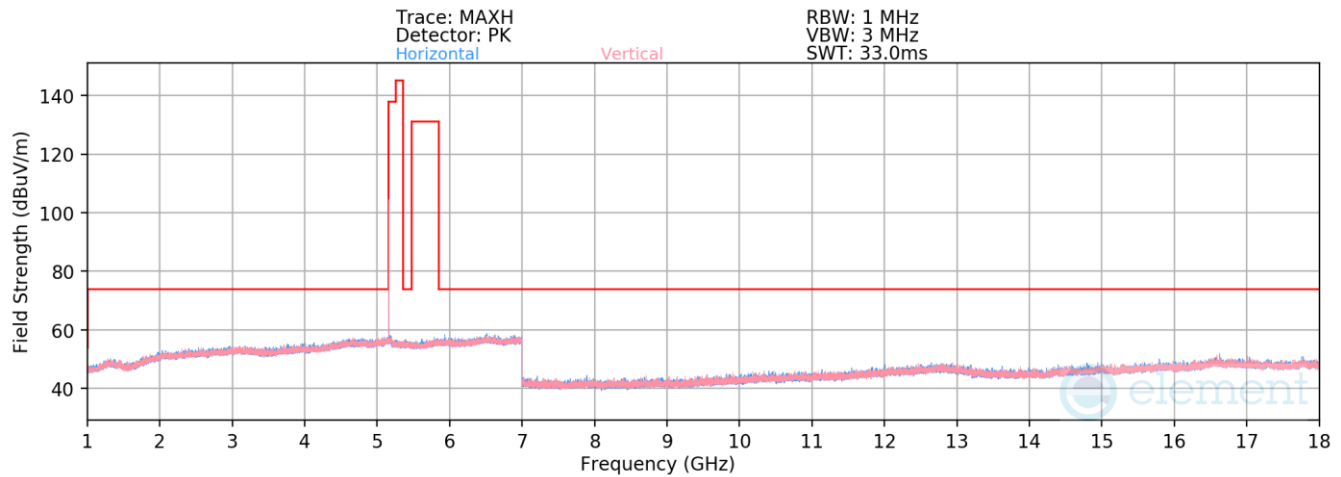
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11688.00	Average	V	-	-	-79.66	7.86	35.20	53.98	-18.78
*	11688.00	Peak	V	-	-	-68.33	7.86	46.53	73.98	-27.45
	17532.00	Peak	V	-	-	-71.92	15.50	50.58	68.20	-17.62

Table 7-40. Radiated Spurious Emissions Measurements Antenna WF2a

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 147 of 185

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7.6.3 Antenna WF7b Radiated Spurious Emission (1-18GHz)



Plot 7-190. Radiated Spurious Emissions 1-18GHz Antenna WF7b (HDR4, ePA – 5162MHz)

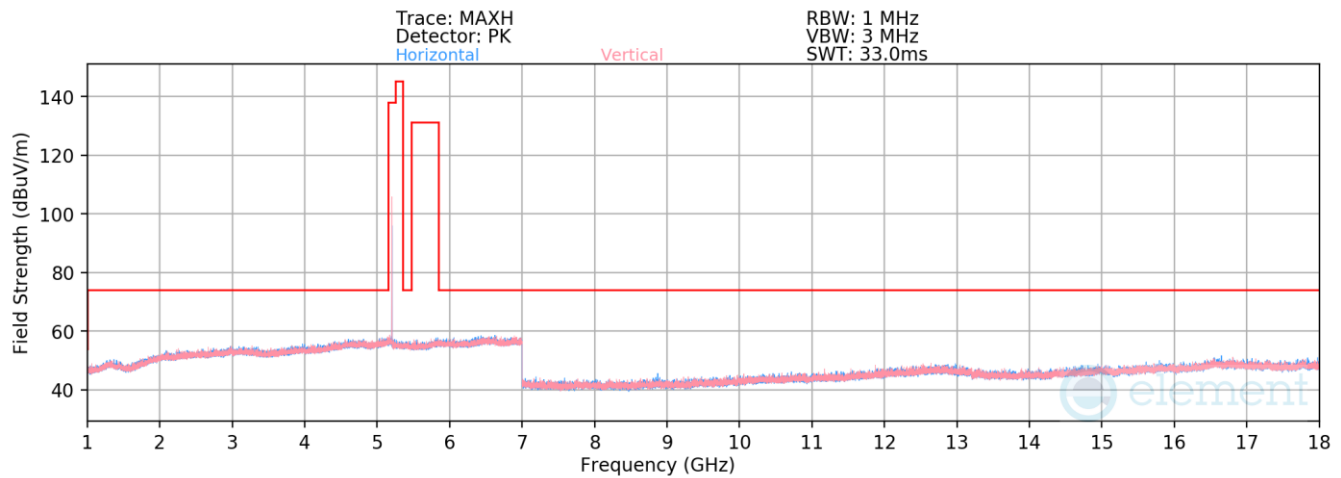
Mode:	HDR4
Data Rate:	4Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5162MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10324.00	Peak	V	264	70	-66.30	5.91	46.61	68.20	-21.59
* 15486.00	Average	V	-	-	-81.75	12.24	37.49	53.98	-16.49
* 15486.00	Peak	V	-	-	-70.25	12.24	48.99	73.98	-24.99

Table 7-41. Radiated Spurious Emissions Measurements Antenna WF7b

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 148 of 185

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Plot 7-191. Radiated Spurious Emissions 1-18GHz Antenna WF7b (HDR4, ePA – 5204MHz)

Mode: HDR4

Data Rate: 4Mbps

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	V	236	69	-66.10	6.27	47.17	68.20	-21.03
* 15612.00	Average	V	-	-	-81.57	12.66	38.09	53.98	-15.89
* 15612.00	Peak	V	-	-	-70.34	12.66	49.32	73.98	-24.66

Table 7-42. Radiated Spurious Emissions Measurements Antenna WF7b

FCC ID: BCGA2898 IC: 579C-A2898		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270065-09.BCG	Test Dates: 11/29/2023 - 3/8/2024	EUT Type: Tablet Device	Page 149 of 185

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