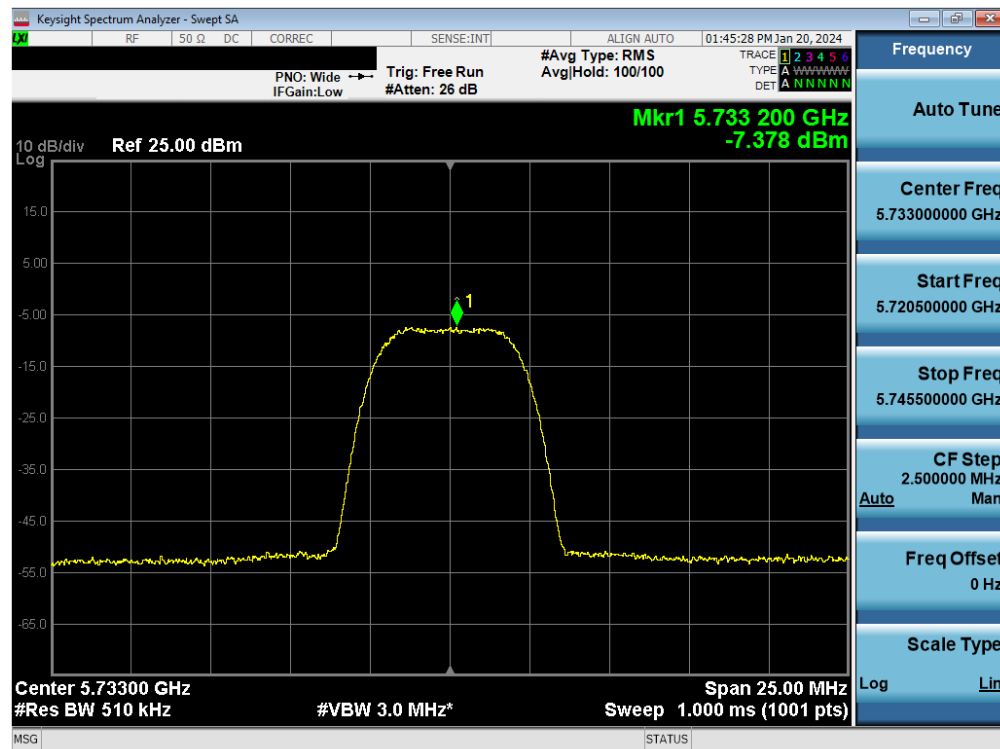
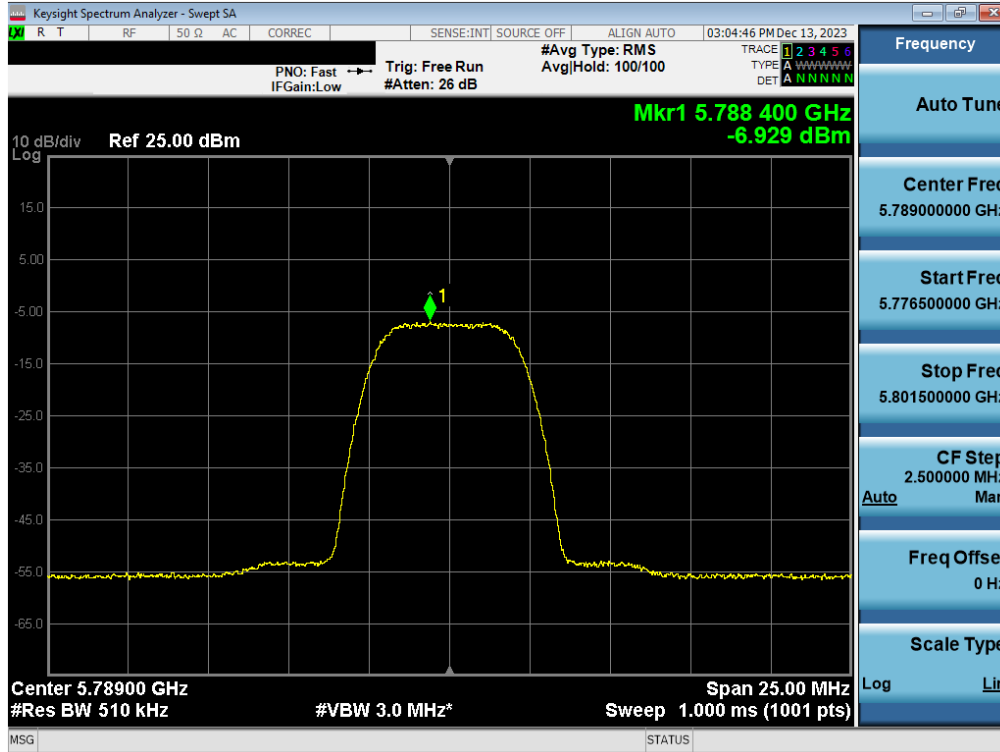


Plot 7-78. PSD Antenna WF7a (HDR8, ePA 5844MHz)

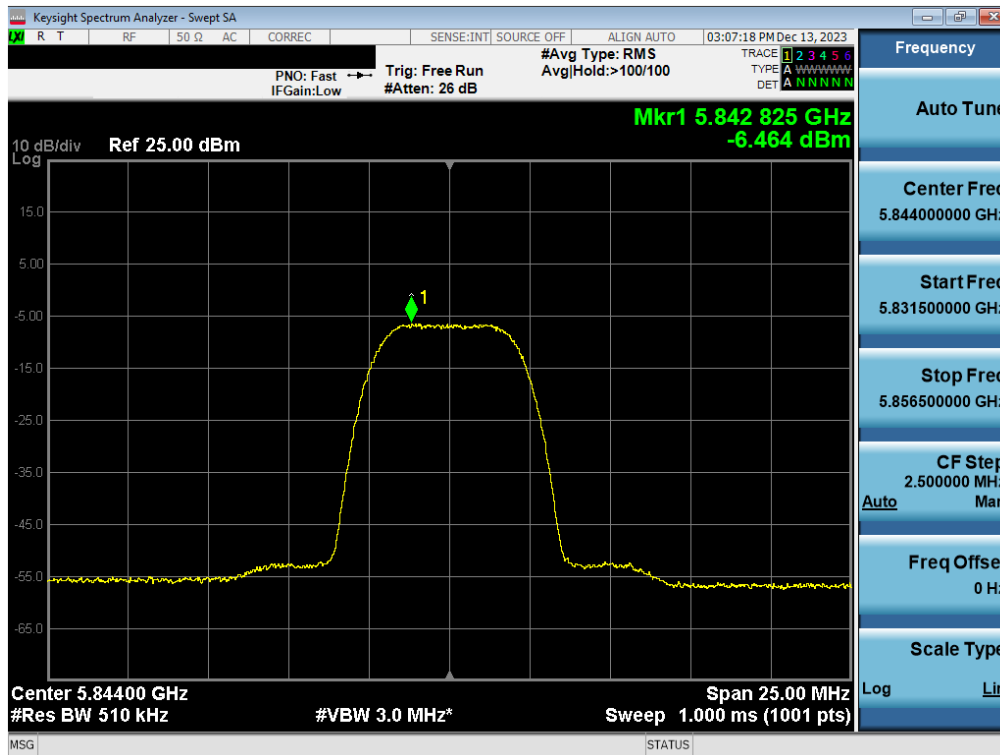


Plot 7-79. PSD Antenna WF7a (HDR8, iPA 5733MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 73 of 151



Plot 7-80. PSD Antenna WF7a (HDR8, iPA 5789MHz)



Plot 7-81. PSD Antenna WF7a (HDR8, iPA 5844MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 74 of 151

7.5.3 Tx BF Power Spectral Density Measurements

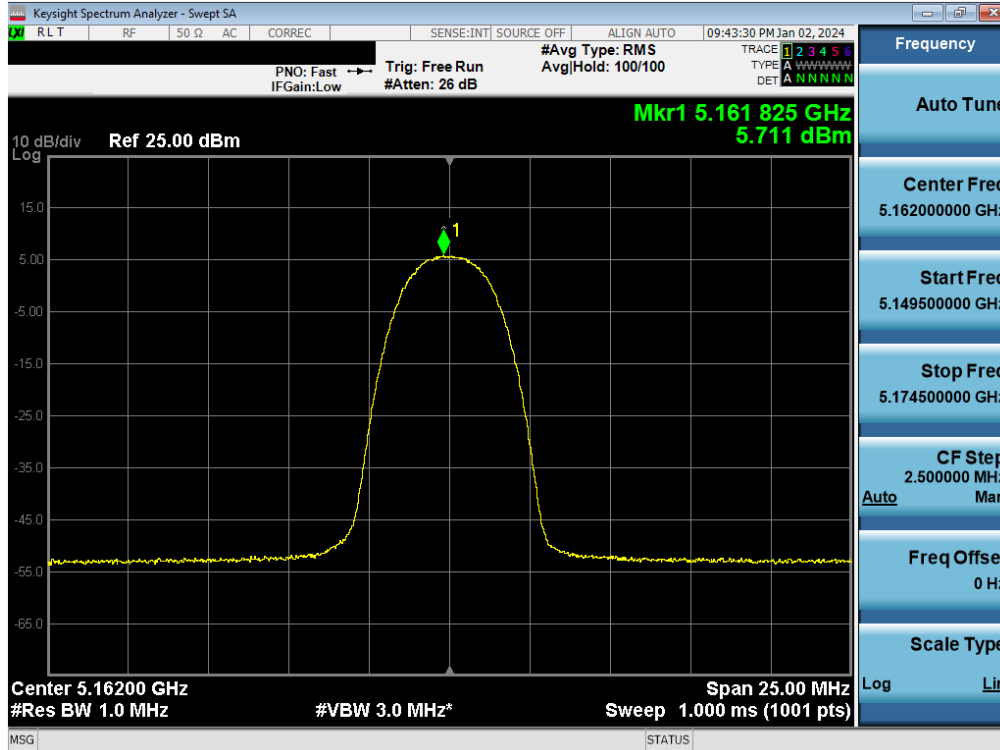
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna WF8 Power Density [dBm/MHz]	Antenna WF7a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5162	4.0	HDR4	ePA	5.71	5.25	8.50	11.00	-2.50
	5204	4.0	HDR4	ePA	6.67	6.08	9.39	11.00	-1.61
	5245	4.0	HDR4	ePA	7.05	6.47	9.78	11.00	-1.22
	5162	4.0	HDR4	iPA	-1.15	-1.44	1.72	11.00	-9.28
	5204	4.0	HDR4	iPA	-0.44	-0.97	2.32	11.00	-8.68
	5245	4.0	HDR4	iPA	-0.28	-1.03	2.38	11.00	-8.62
	5162	8.0	HDR8	ePA	6.43	5.56	9.03	11.00	-1.97
	5204	8.0	HDR8	ePA	6.45	5.82	9.16	11.00	-1.84
	5245	8.0	HDR8	ePA	6.83	6.08	9.48	11.00	-1.52
	5162	8.0	HDR8	iPA	-3.22	-4.22	-0.68	11.00	-11.68
	5204	8.0	HDR8	iPA	-3.21	-3.54	-0.36	11.00	-11.36
5245	8.0	HDR8	iPA	-3.17	-3.66	-0.40	11.00	-11.40	

Table 7-18. FCC Power Spectral Density Measurements TxBF

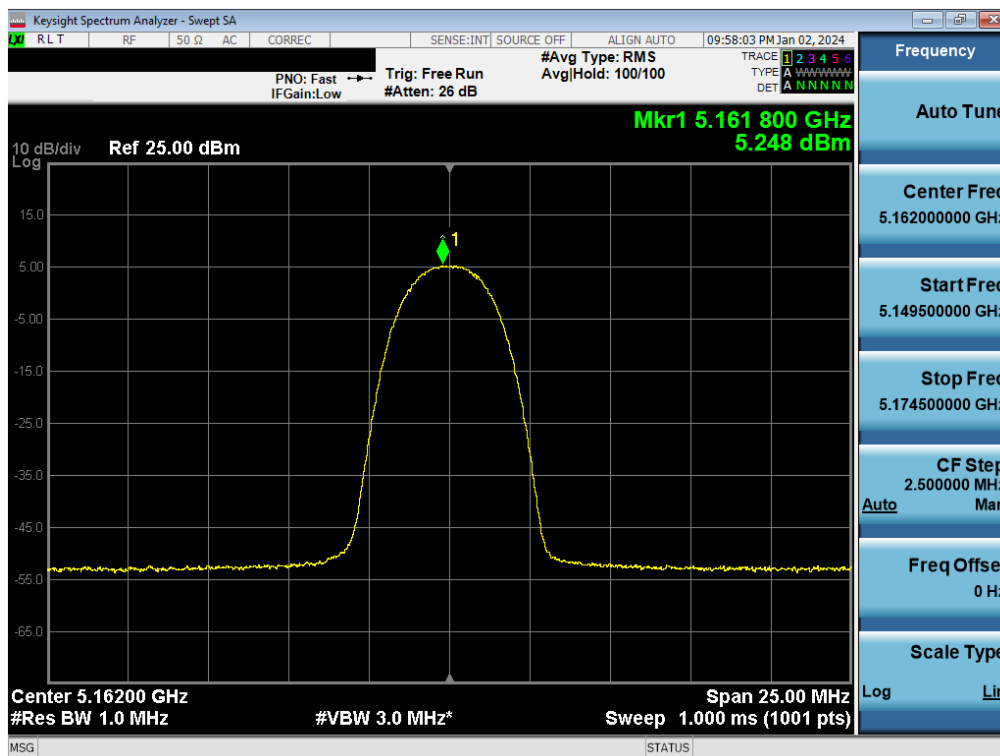
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna WF8 Power Density [dBm/MHz]	Antenna WF7a Power Density [dBm/MHz]	Summed Power Density [dBm/MHz]	Directional Antenna Gain [dBi]	e.i.r.p Power Density [dBm/MHz]	ISED Max e.i.r.p. Power Density [dBm/MHz]	Margin [dB]
Band 1	5162	4.0	HDR4	ePA	0.53	-1.40	2.68	5.15	7.83	10.00	-2.17
	5204	4.0	HDR4	ePA	0.37	-2.12	2.31	5.15	7.46	10.00	-2.54
	5245	4.0	HDR4	ePA	0.72	-0.73	3.07	5.15	8.22	10.00	-1.78
	5162	4.0	HDR4	iPA	-1.15	-1.44	1.72	5.15	6.86	10.00	-3.14
	5204	4.0	HDR4	iPA	-0.44	-0.97	2.31	5.15	7.46	10.00	-2.54
	5245	4.0	HDR4	iPA	-0.28	-1.03	2.37	5.15	7.52	10.00	-2.48
	5162	8.0	HDR8	ePA	1.13	-0.56	3.38	5.15	8.53	10.00	-1.47
	5204	8.0	HDR8	ePA	1.01	-1.29	3.02	5.15	8.17	10.00	-1.83
	5245	8.0	HDR8	ePA	1.20	-0.66	3.38	5.15	8.53	10.00	-1.47
	5162	8.0	HDR8	iPA	-3.22	-4.22	-0.68	5.15	4.47	10.00	-5.53
	5204	8.0	HDR8	iPA	-3.21	-3.54	-0.36	5.15	4.79	10.00	-5.21
	5245	8.0	HDR8	iPA	-3.17	-3.66	-0.40	5.15	4.75	10.00	-5.25

Table 7-19. ISED Power Spectral Density Measurements TxBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 75 of 151

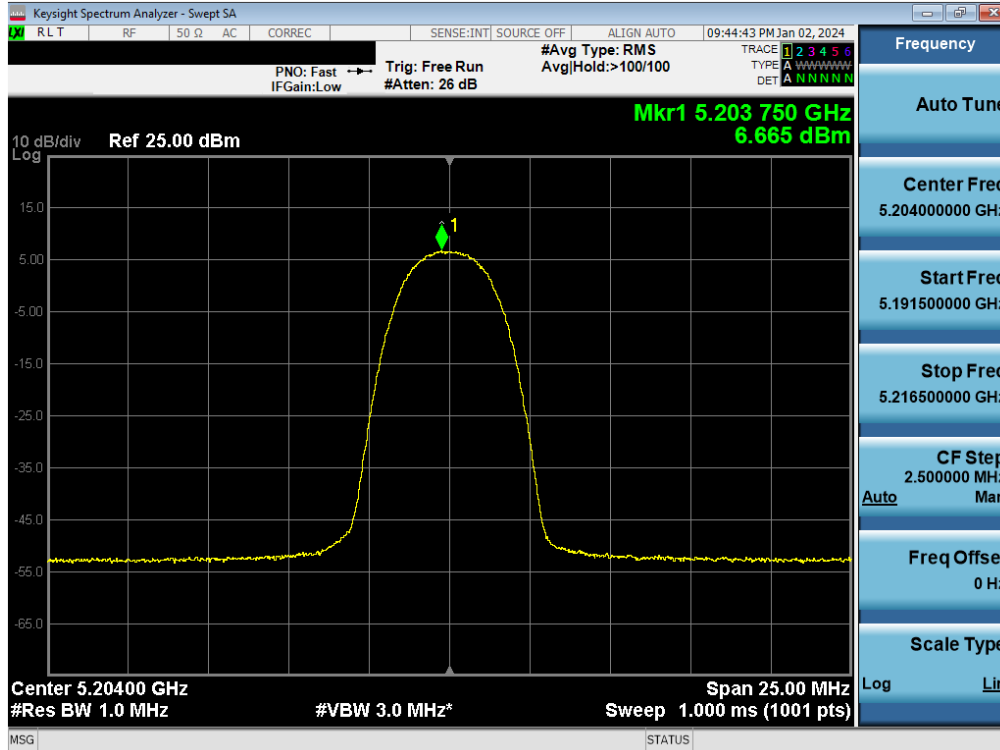


Plot 7-82. FCC PSD TxBF Antenna WF8 (HDR4, ePA – 5162MHz)

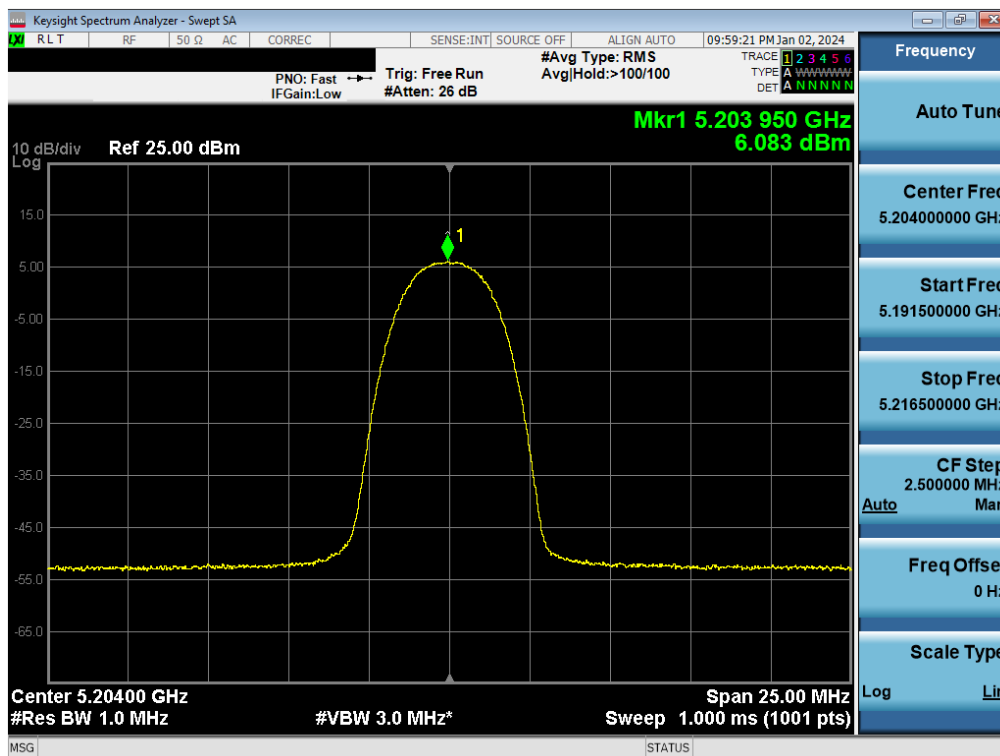


Plot 7-83. FCC PSD TxBF Antenna WF7a (HDR4, ePA – 5162MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 76 of 151

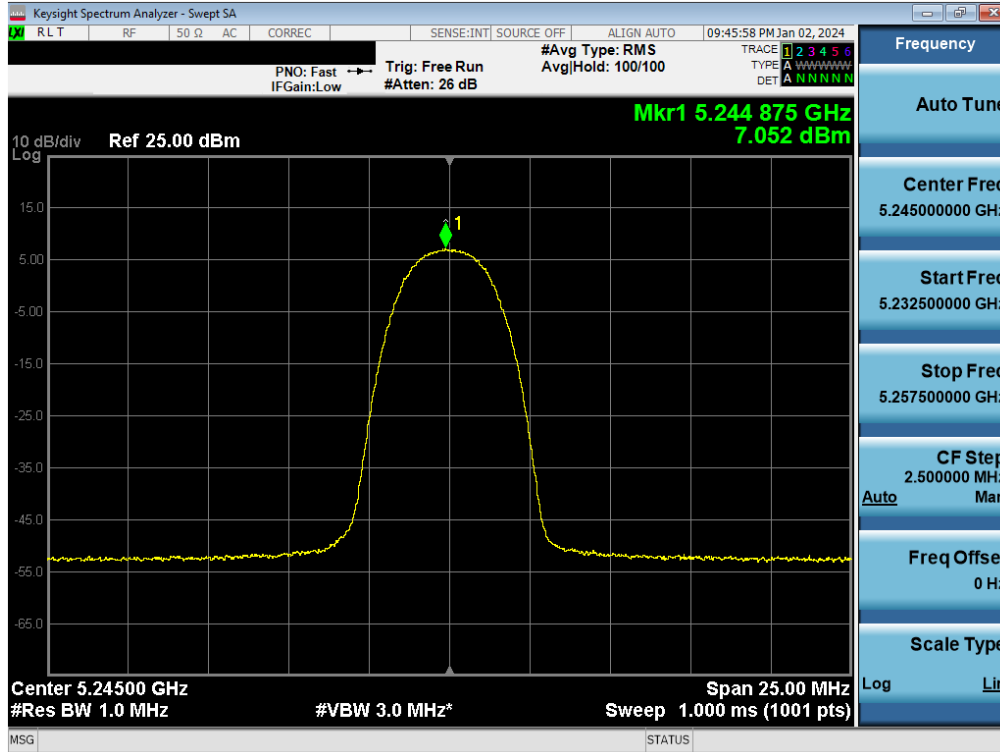


Plot 7-84. FCC PSD Tx BF Antenna WF8 (HDR4, ePA – 5204MHz)

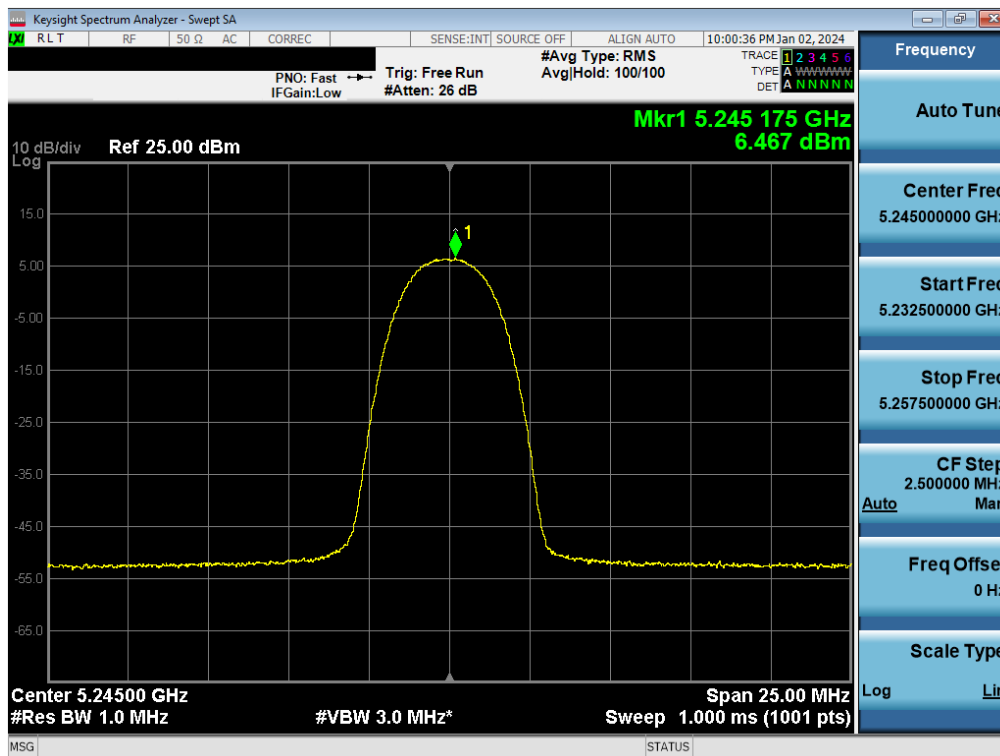


Plot 7-85. FCC PSD Tx BF Antenna WF7a (HDR4, ePA – 5204MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 77 of 151

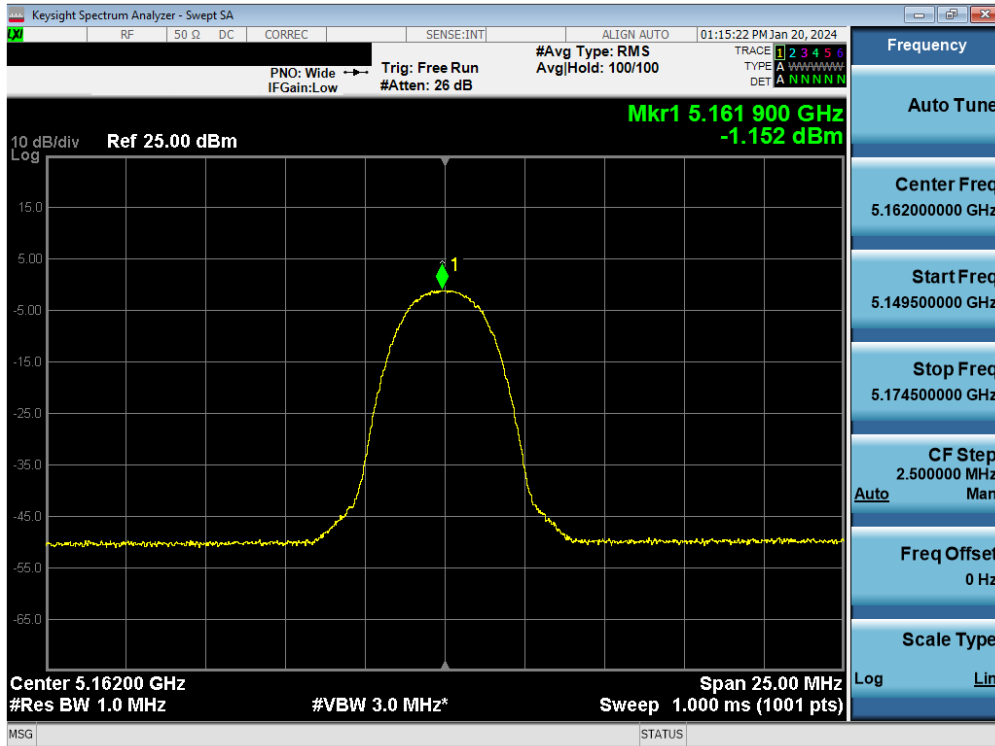


Plot 7-86. FCC PSD Tx BF Antenna WF8 (HDR4, ePA- 5245MHz)

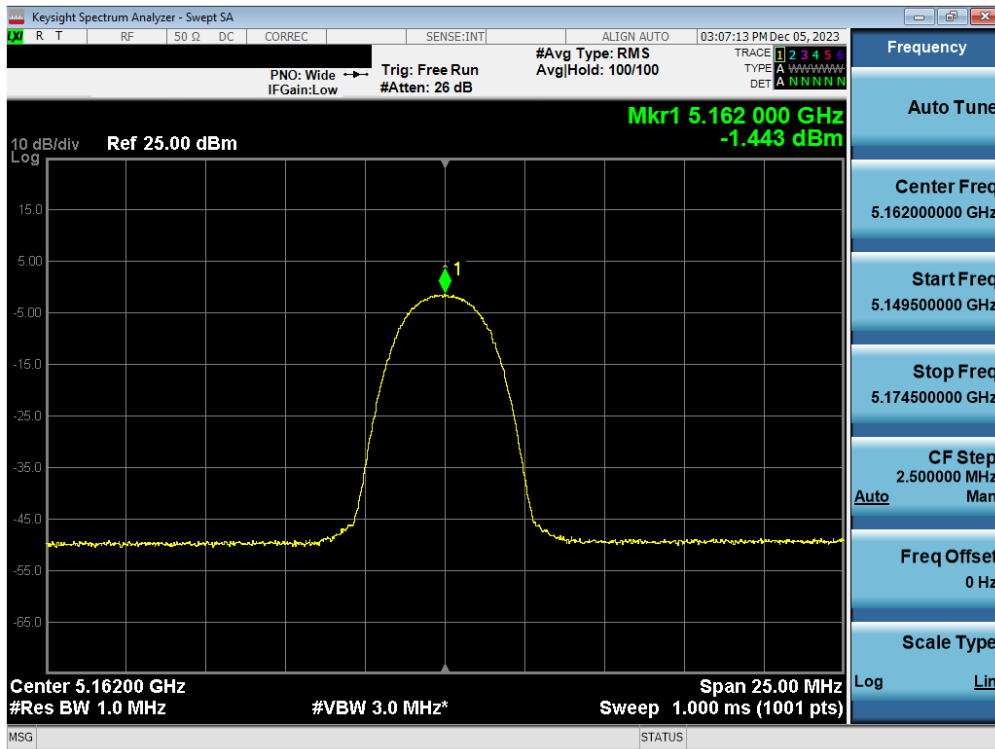


Plot 7-87. FCC PSD Tx BF Antenna WF7a (HDR4, ePA- 5245MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 78 of 151

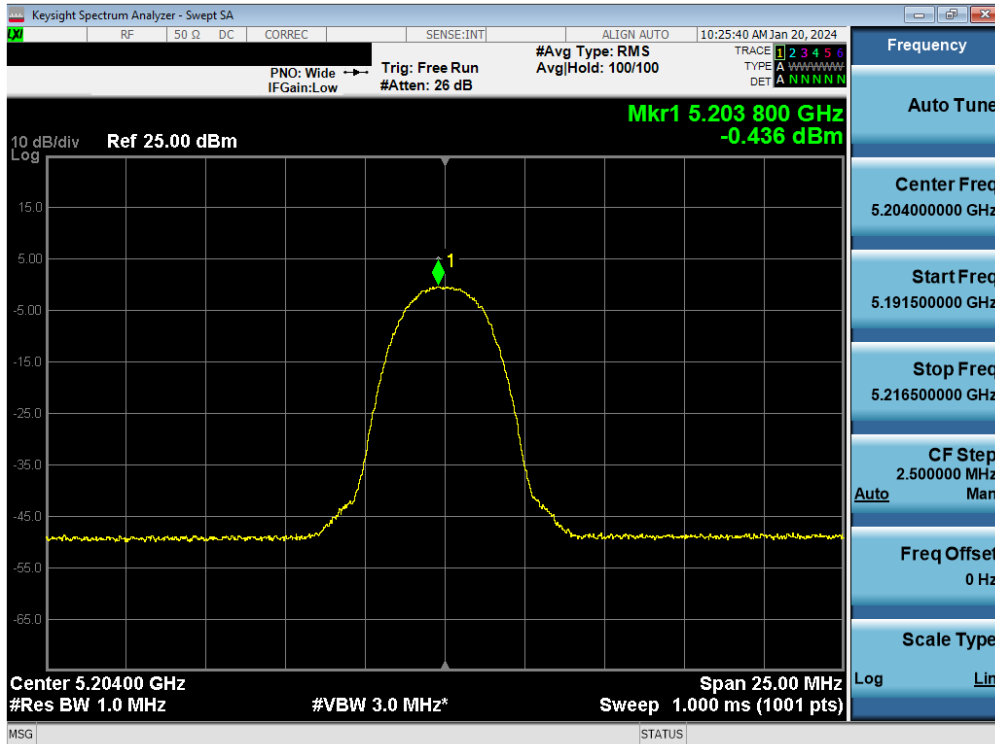


Plot 7-88. FCC/ISED PSD Tx BF Antenna WF8 (HDR4, iPA – 5162MHz)

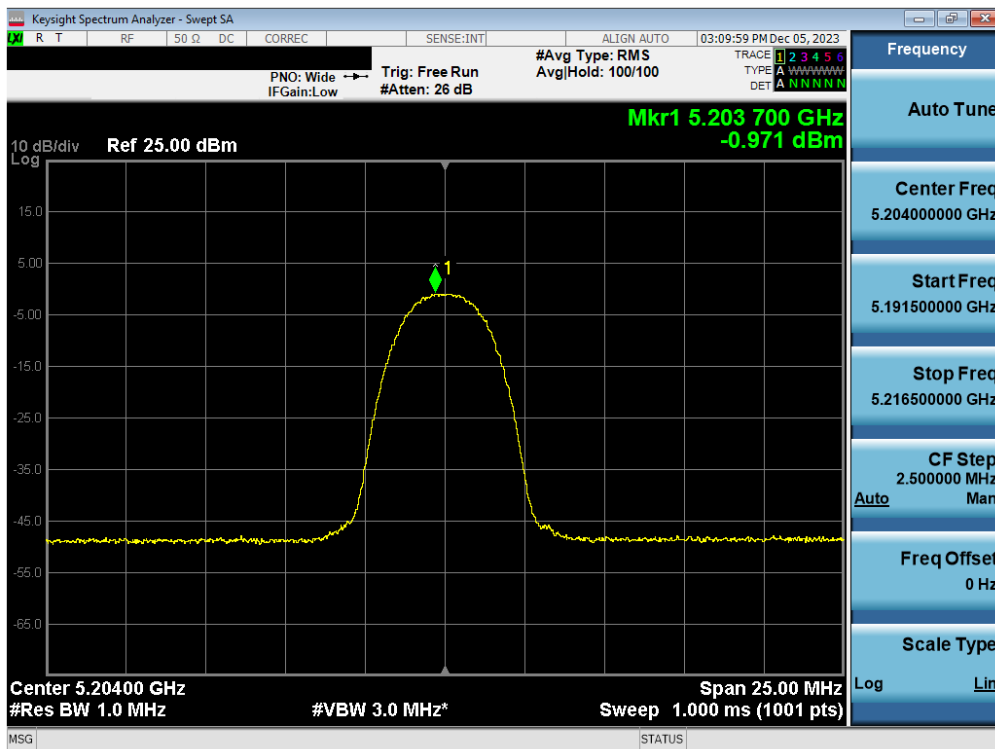


Plot 7-89. FCC/ISED PSD Tx BF Antenna WF7a (HDR4, iPA – 5162MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 79 of 151

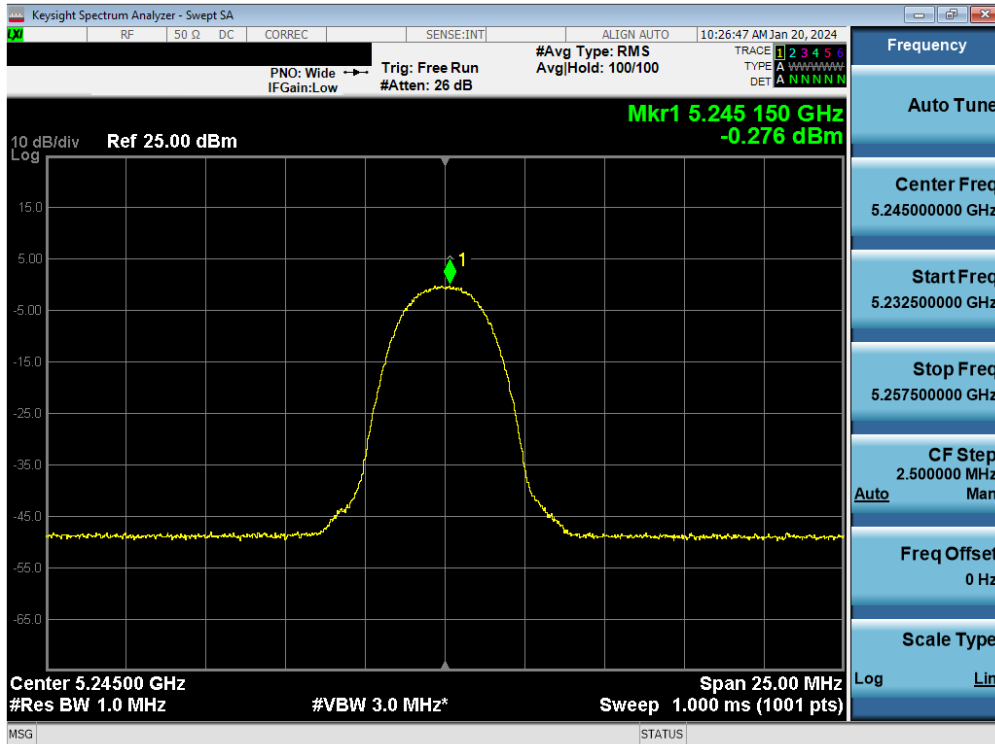


Plot 7-90. FCC/ISED PSD Tx BF Antenna WF8 (HDR4, iPA – 5204MHz)

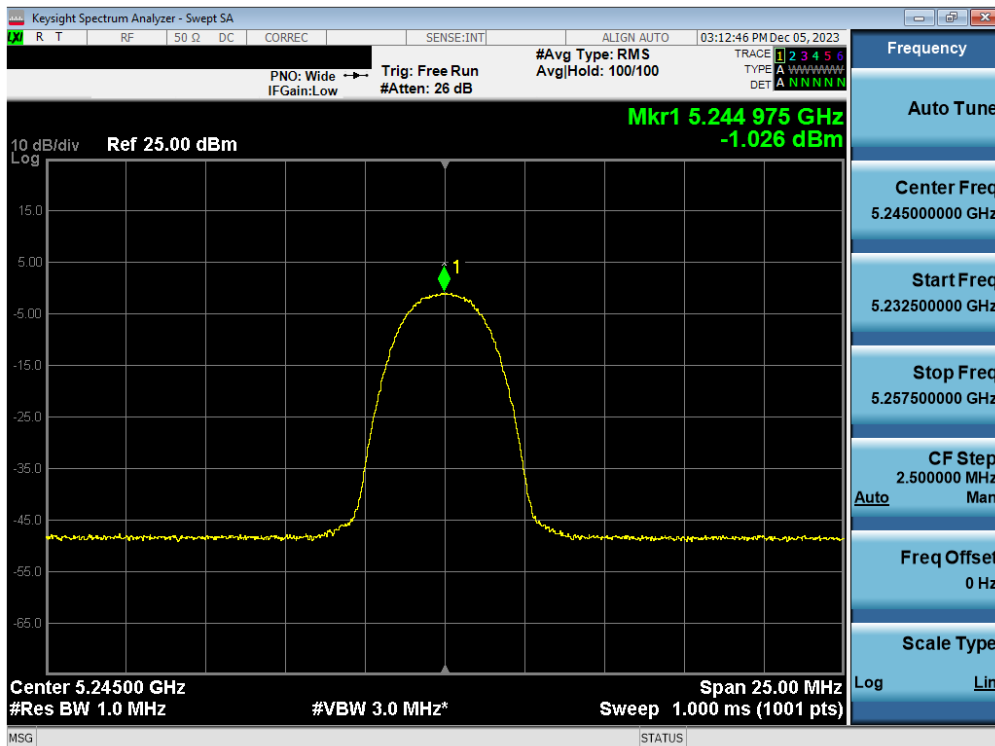


Plot 7-91. FCC/ISED PSD Tx BF Antenna WF7a (HDR4, iPA – 5204MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 80 of 151

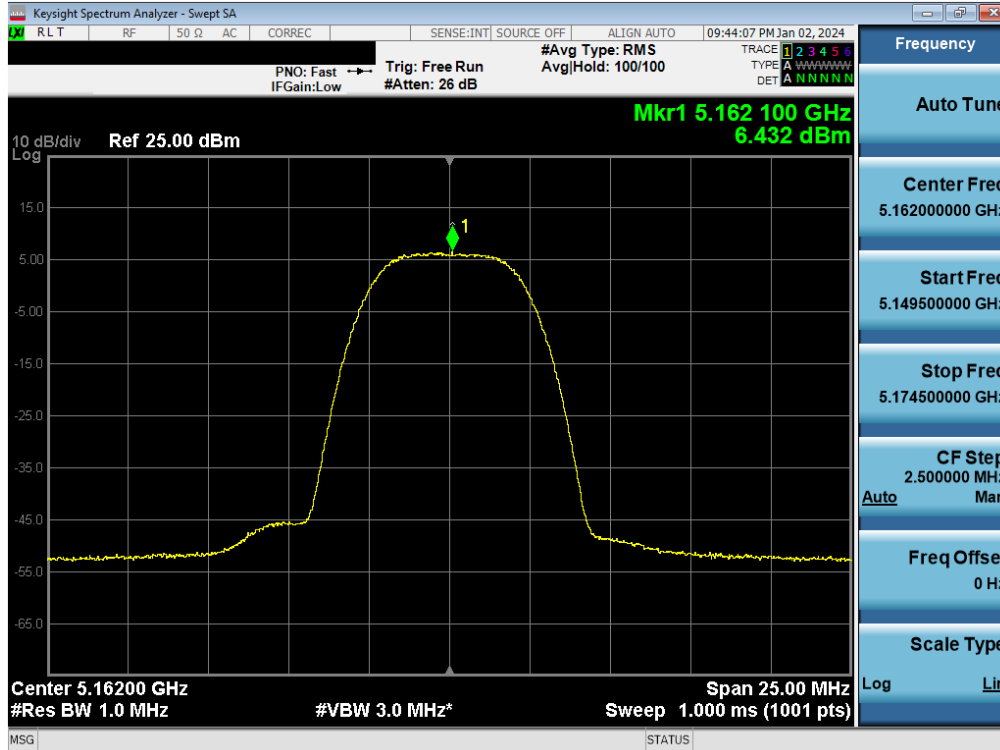


Plot 7-92. FCC/ISED PSD Tx BF Antenna WF8 (HDR4, iPA- 5245MHz)

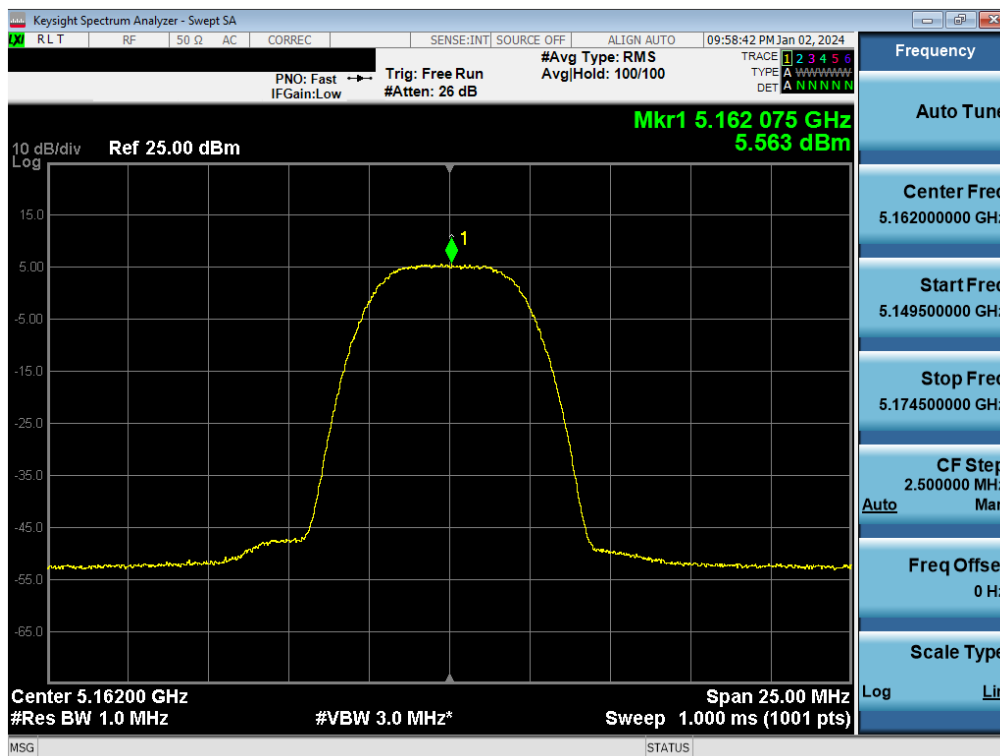


Plot 7-93. FCC/ISED PSD Tx BF Antenna WF7a (HDR4, iPA- 5245MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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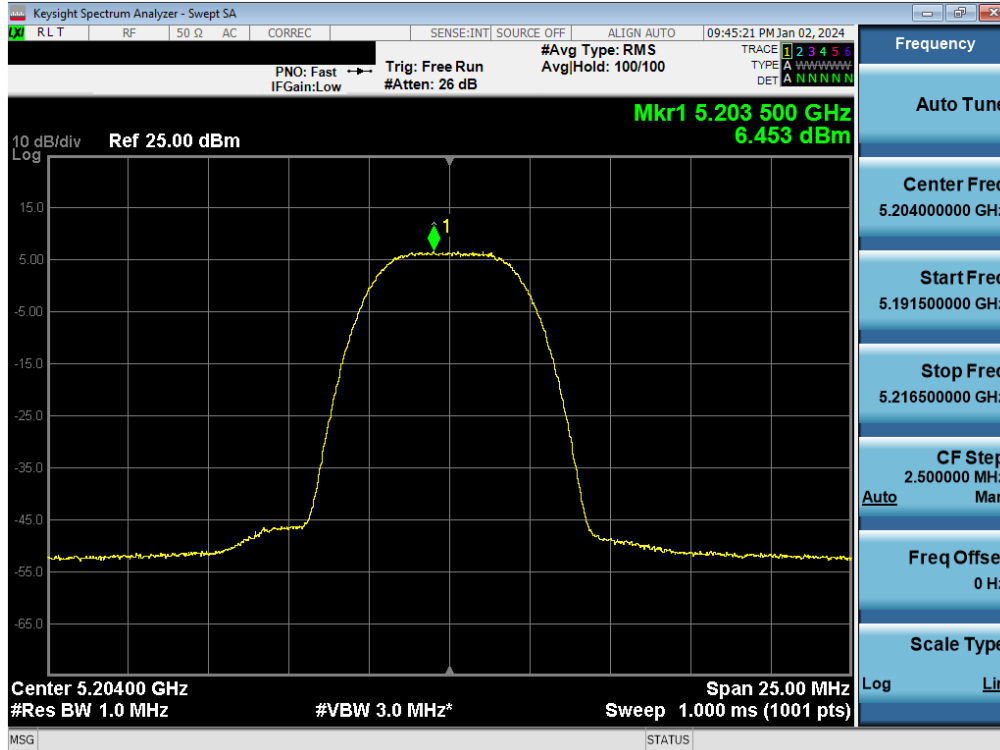


Plot 7-94. FCC PSD TxBF Antenna WF8 (HDR8, ePA – 5162MHz)

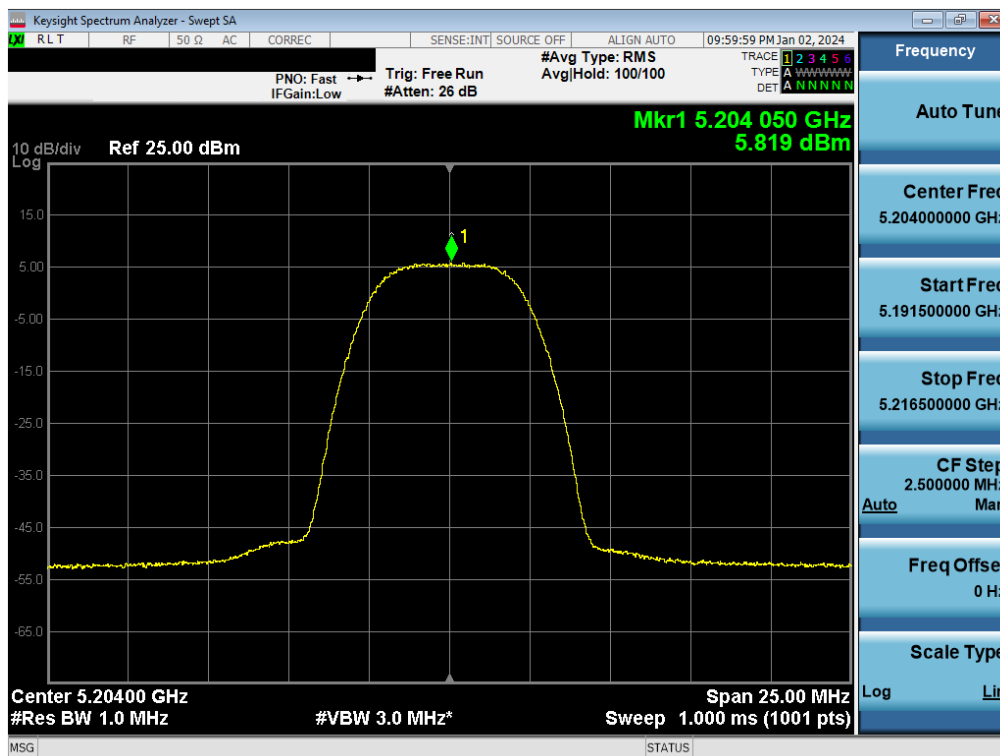


Plot 7-95. FCC PSD TxBF Antenna WF7a (HDR8, ePA – 5162MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 82 of 151

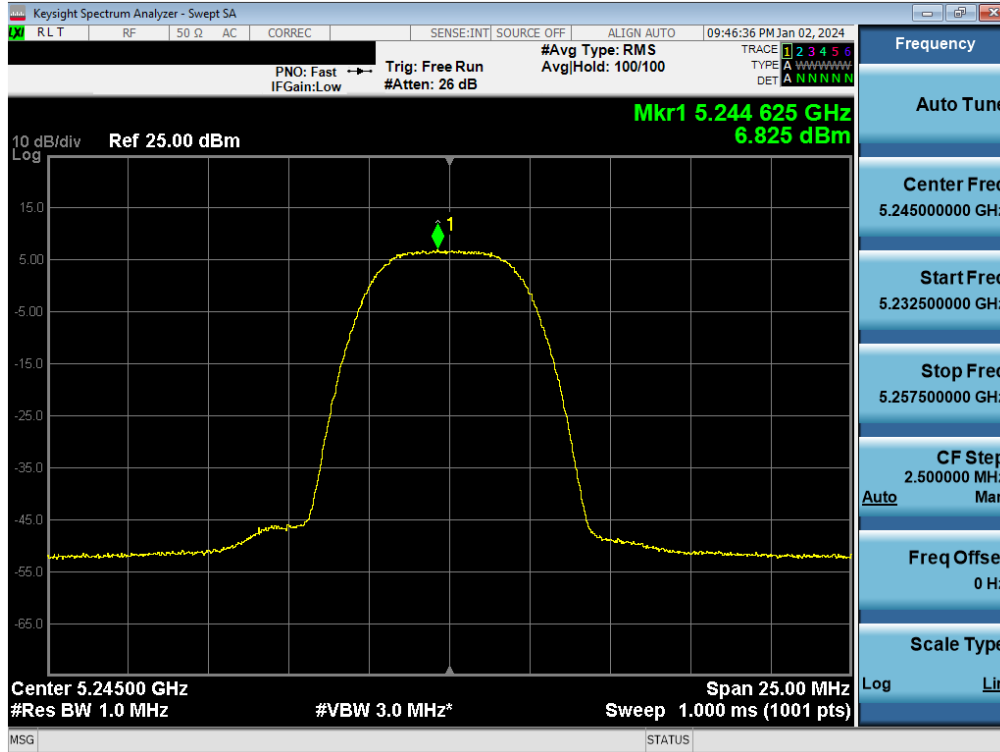


Plot 7-96. FCC PSD Tx BF Antenna WF8 (HDR8, ePA – 5204MHz)

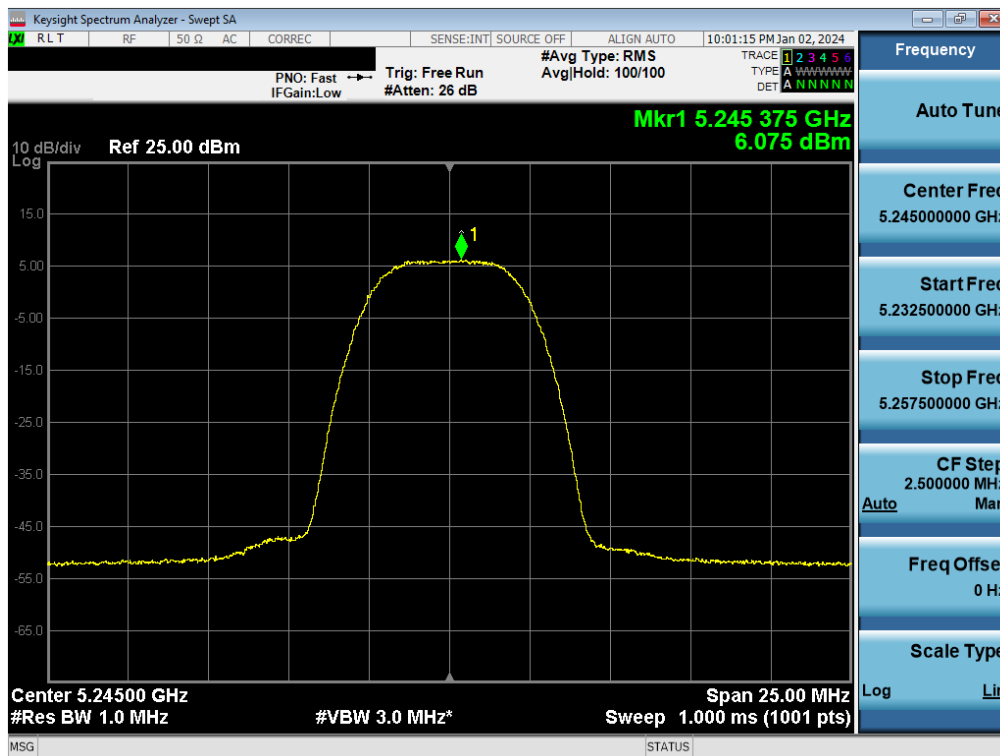


Plot 7-97. FCC PSD Tx BF Antenna WF7a (HDR8, ePA – 5204MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 83 of 151

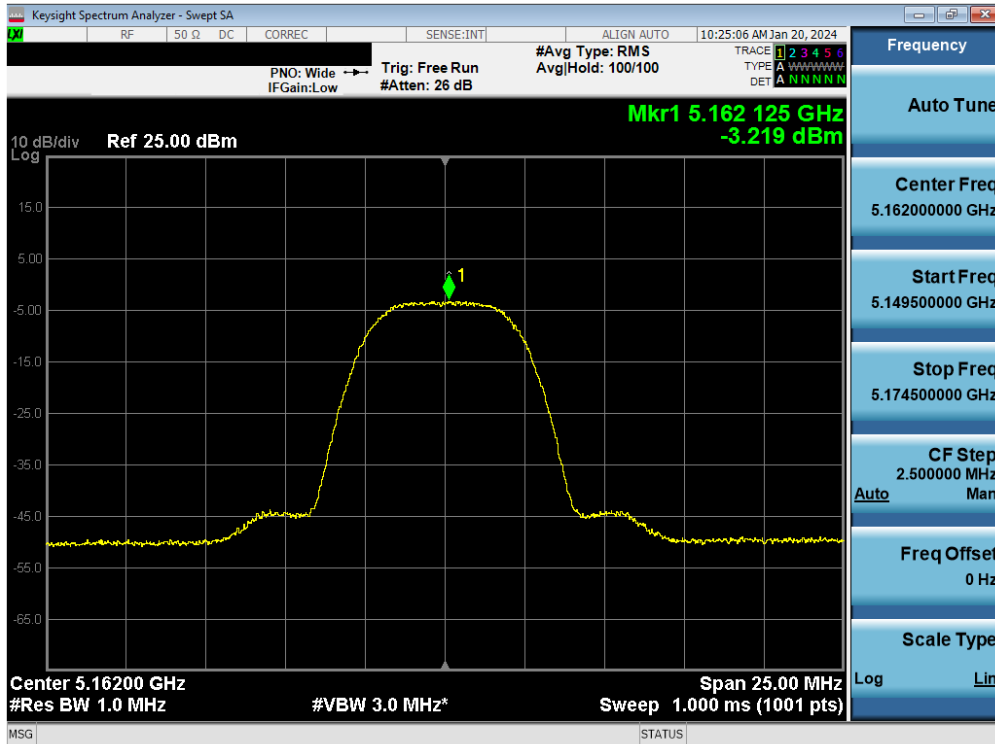


Plot 7-98. FCC PSD Tx BF Antenna WF8 (HDR8, ePA- 5245MHz)

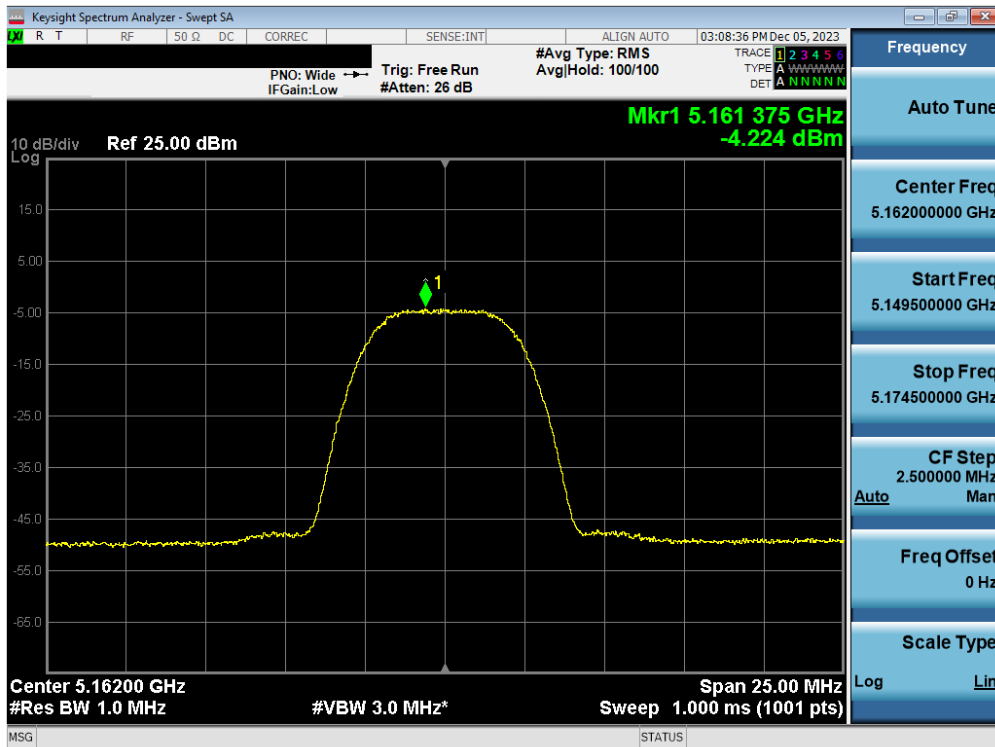


Plot 7-99. FCC PSD Tx BF Antenna WF7a (HDR8, ePA- 5245MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 84 of 151

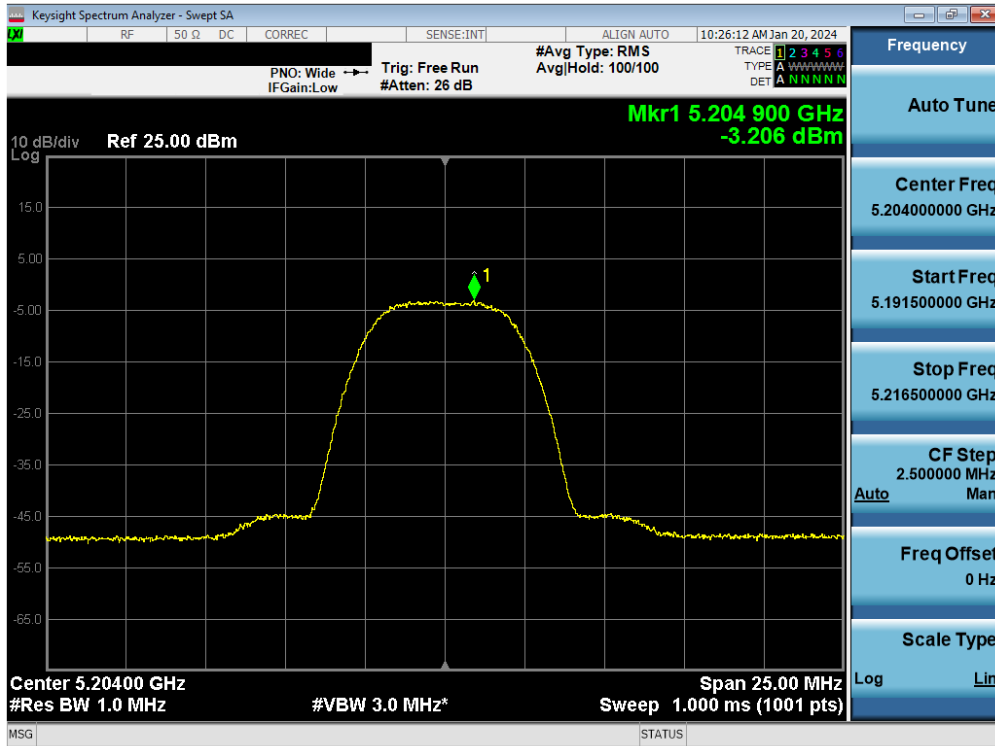


Plot 7-100. FCC/ISED PSD Tx BF Antenna WF8 (HDR8, iPA – 5162MHz)

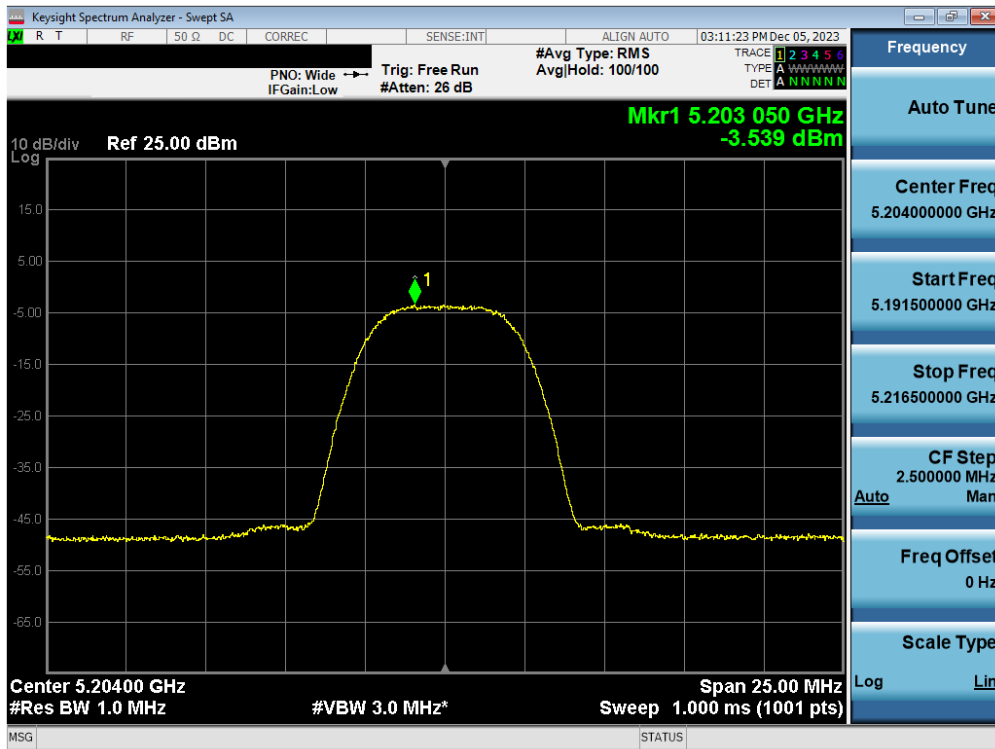


Plot 7-101. FCC/ISED PSD Tx BF Antenna WF7a (HDR8, iPA – 5162MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 85 of 151

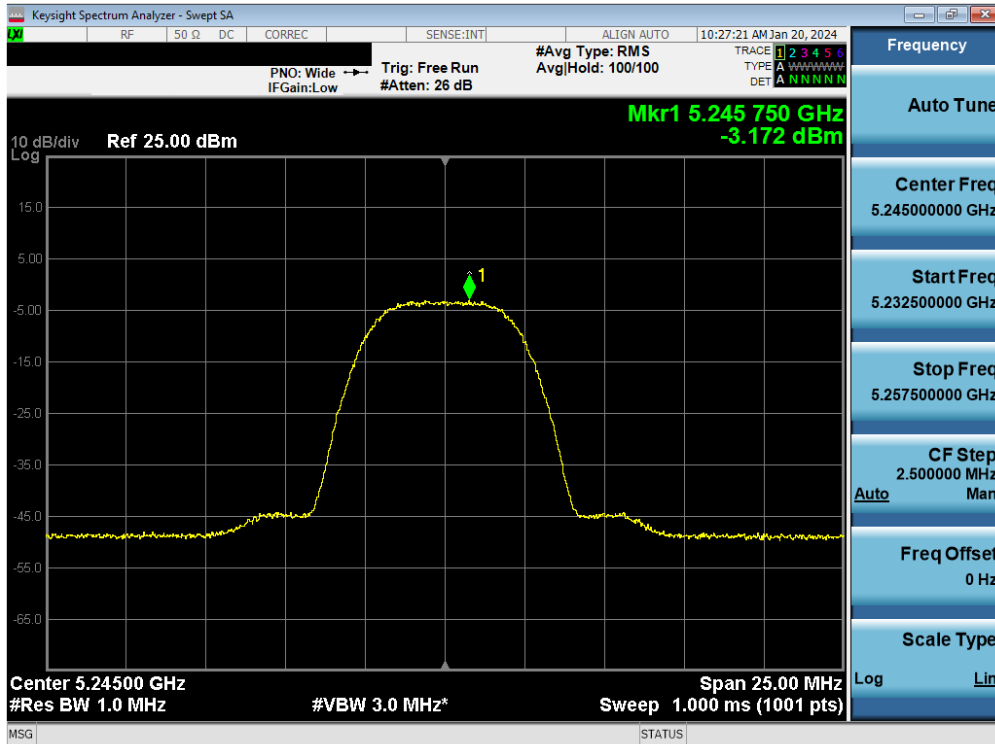


Plot 7-102. FCC/ISED PSD Tx BF Antenna WF8 (HDR8, iPA – 5204MHz)

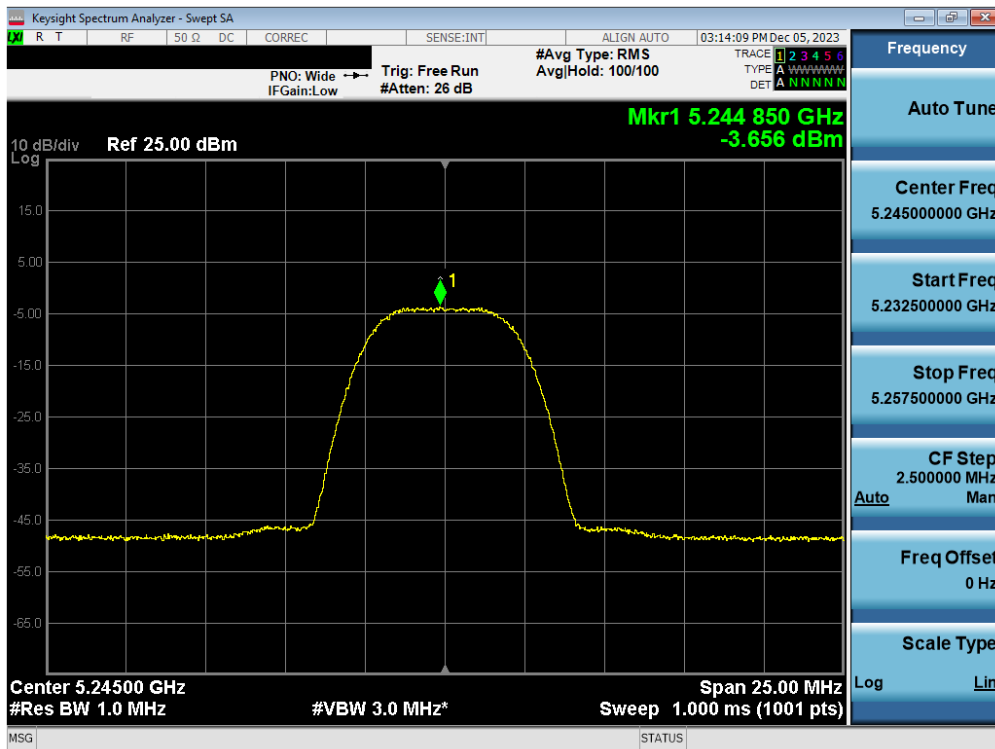


Plot 7-103. FCC/ISED PSD Tx BF Antenna WF7a (HDR8, iPA – 5204MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 86 of 151

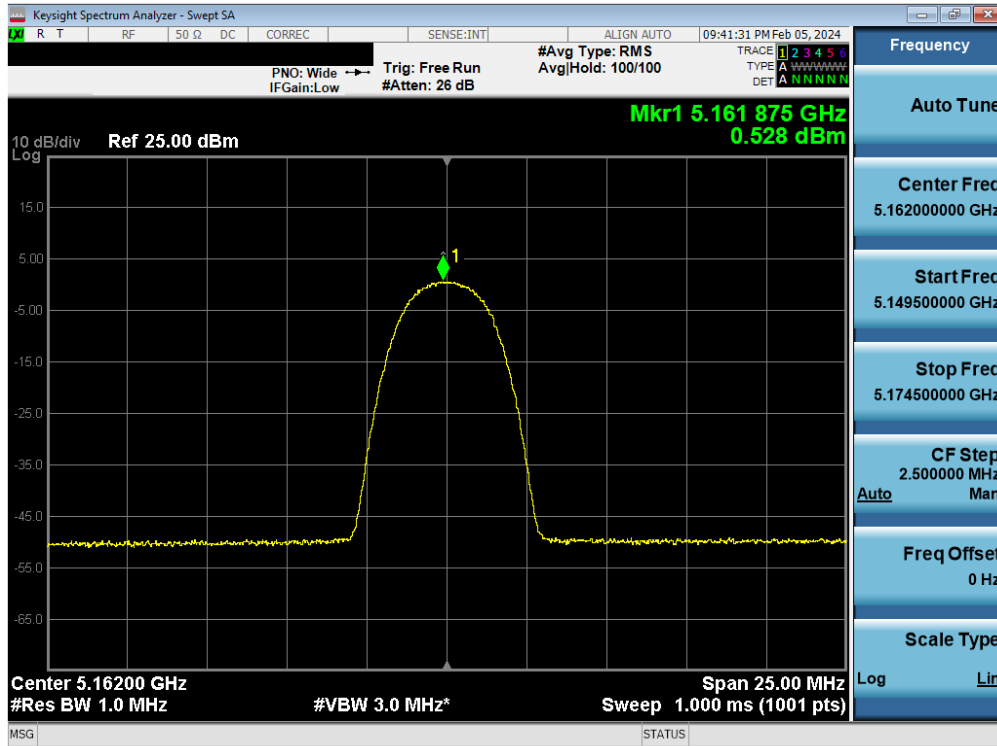


Plot 7-104. FCC/ISED PSD Tx BF Antenna WF8 (HDR8, iPA- 5245MHz)

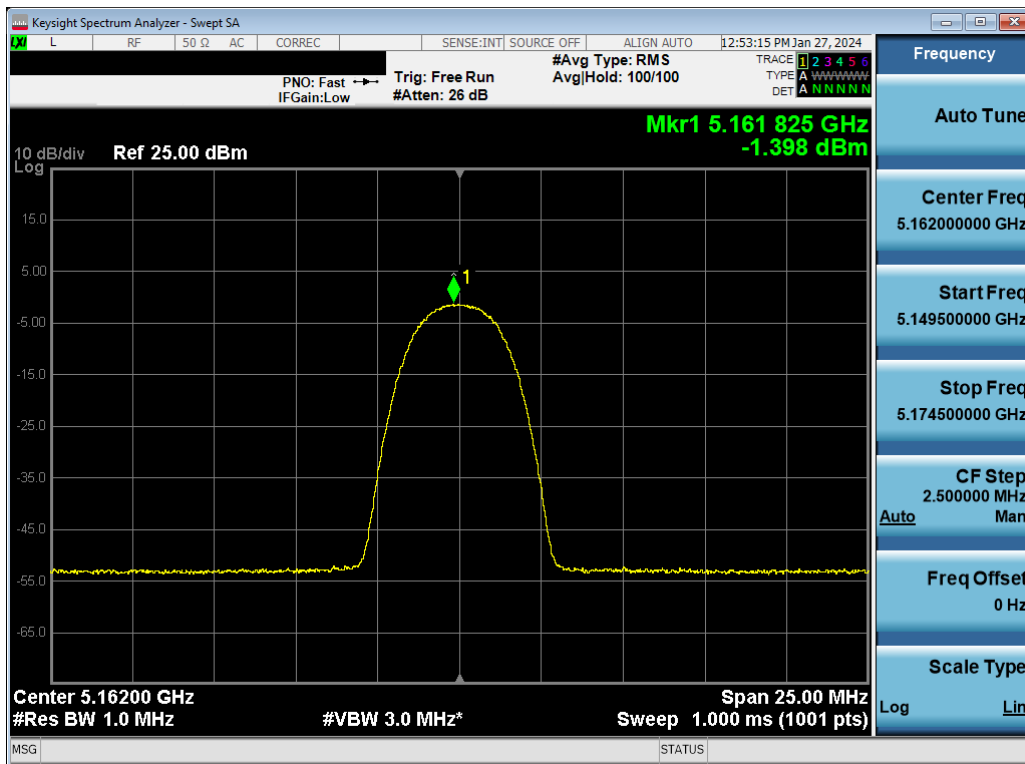


Plot 7-105. FCC/ISED PSD Tx BF Antenna WF7a (HDR8, iPA- 5245MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 87 of 151

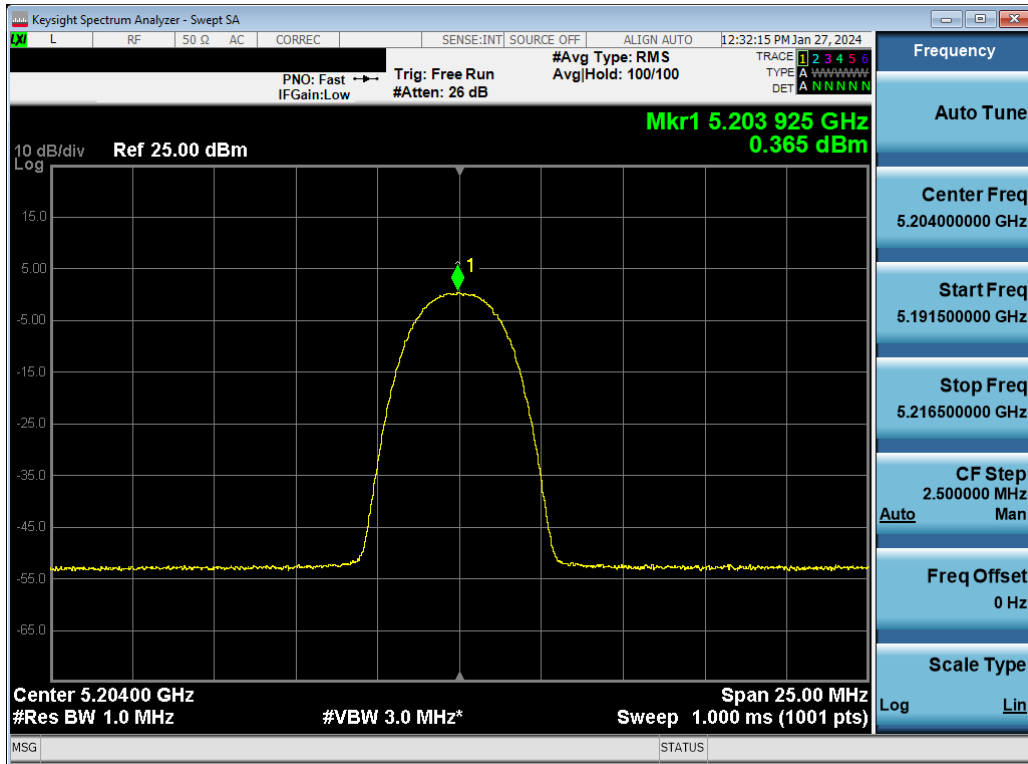


Plot 7-106. ISED PSD TxBF Antenna WF8 (HDR4, ePA – 5162MHz)

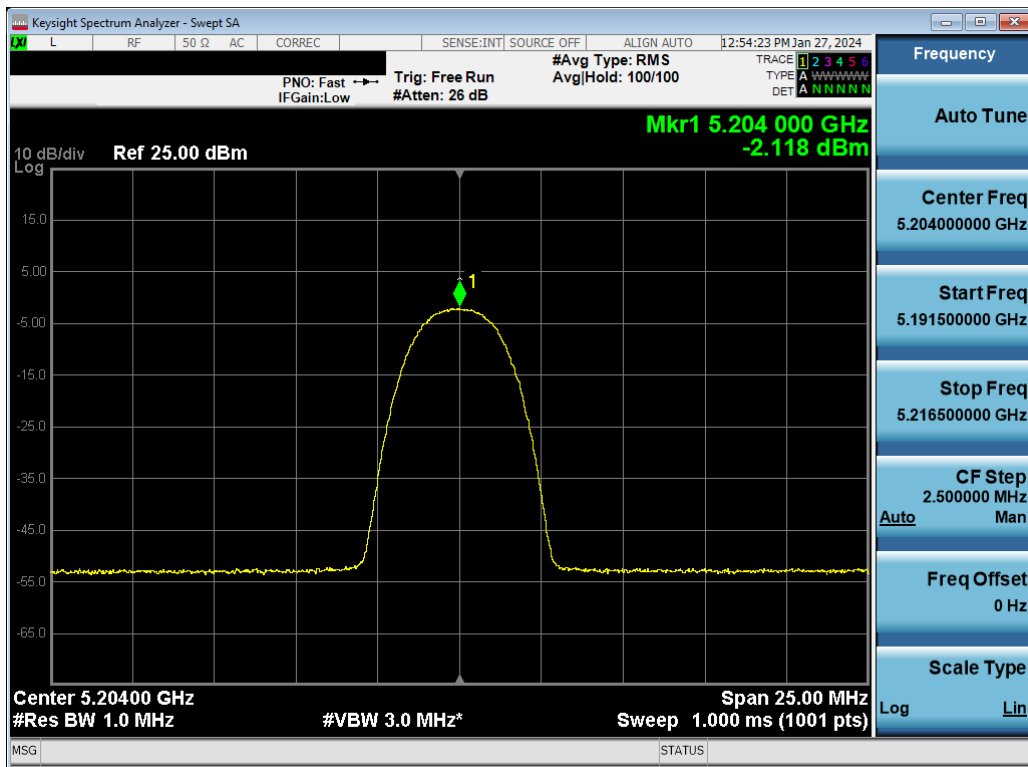


Plot 7-107. ISED PSD TxBF Antenna WF7a (HDR4, ePA – 5162MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 88 of 151

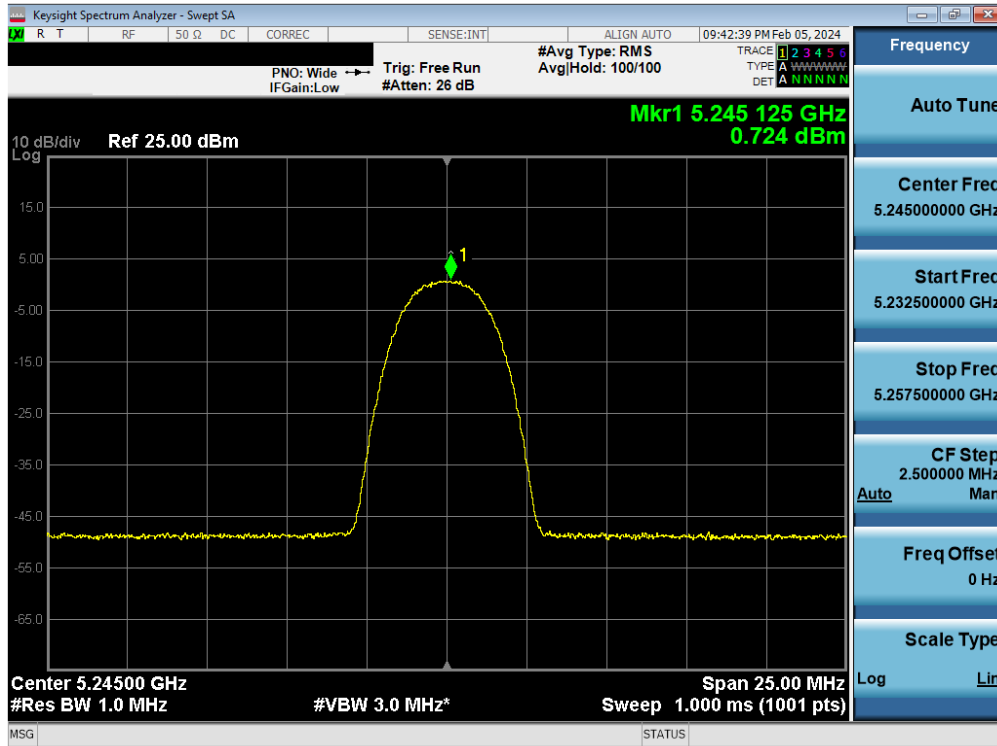


Plot 7-108. ISED PSD Tx BF Antenna WF8 (HDR4, ePA – 5204MHz)

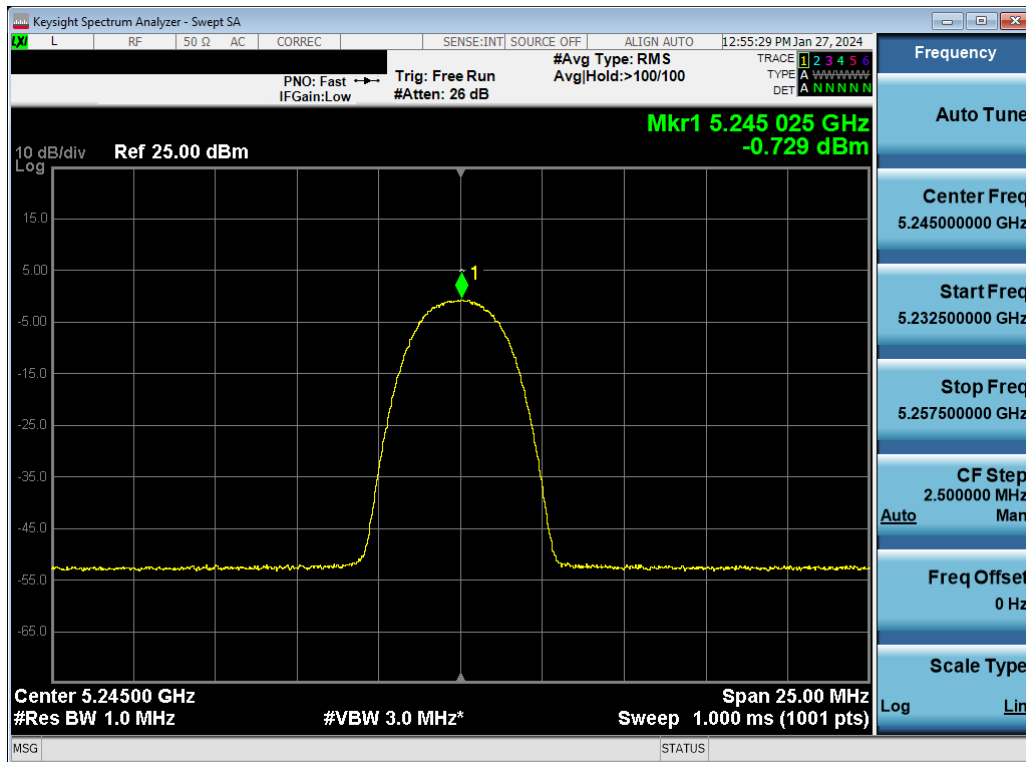


Plot 7-109. ISED PSD Tx BF Antenna WF7a (HDR4, ePA – 5204MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 89 of 151

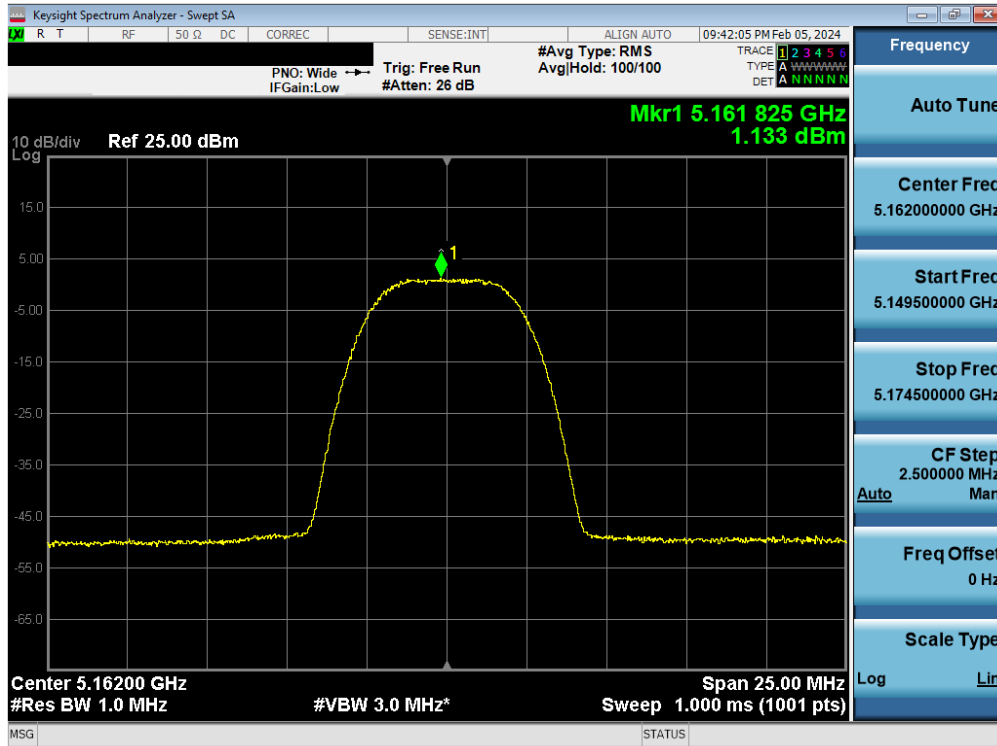


Plot 7-110. ISED PSD Tx BF Antenna WF8 (HDR4, ePA– 5245MHz)

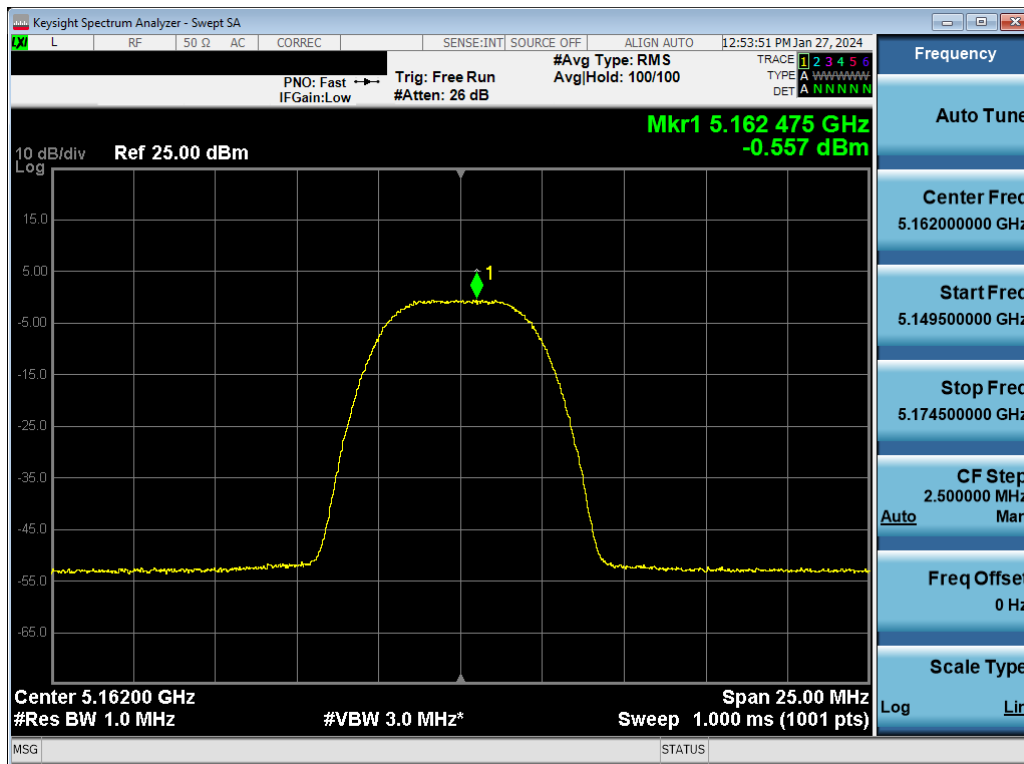


Plot 7-111. ISED PSD Tx BF Antenna WF7a (HDR4, ePA– 5245MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 90 of 151

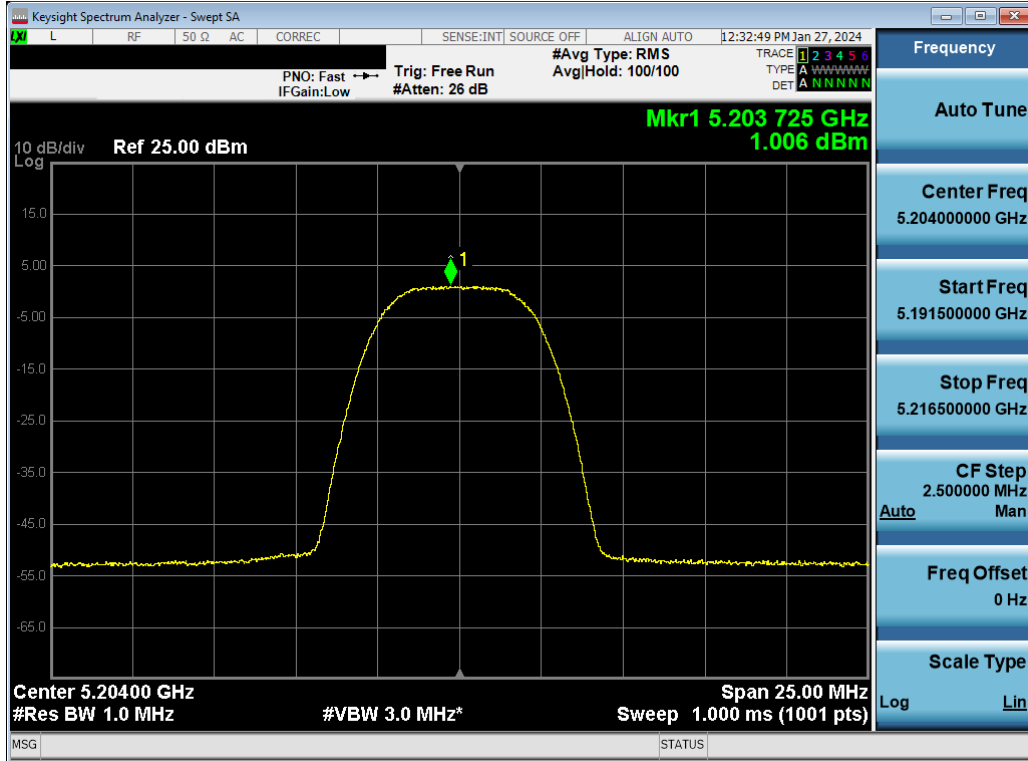


Plot 7-112. ISED PSD TxBF Antenna WF8 (HDR8, ePA – 5162MHz)

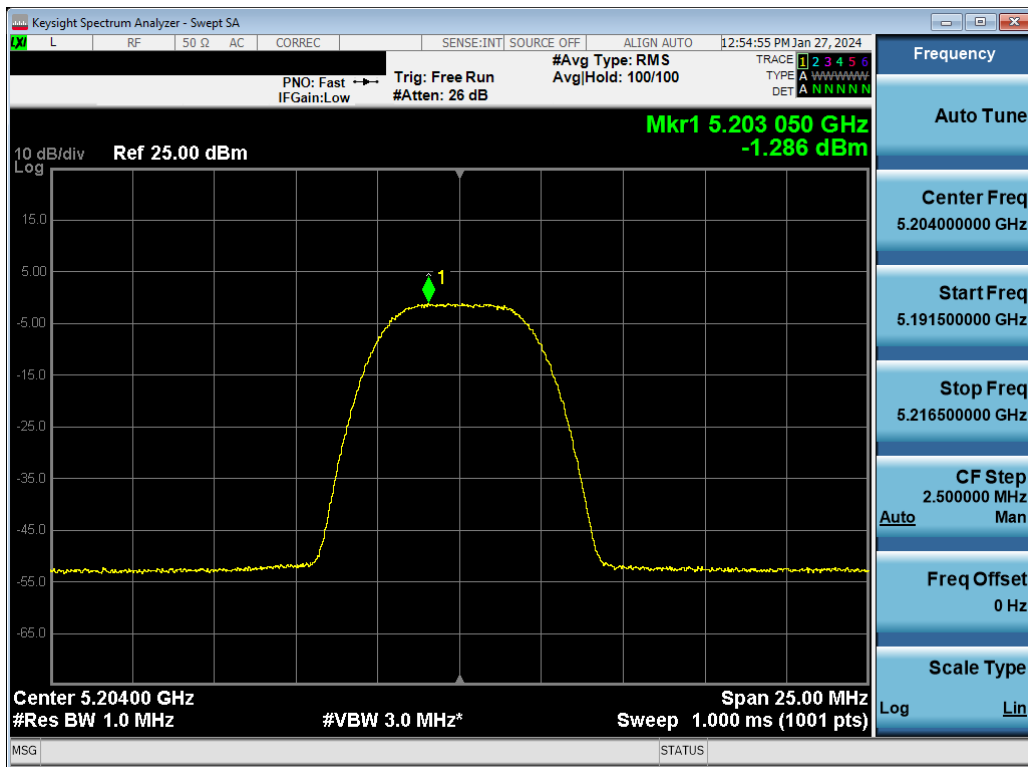


Plot 7-113. ISED PSD TxBF Antenna WF7a (HDR8, ePA – 5162MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 91 of 151

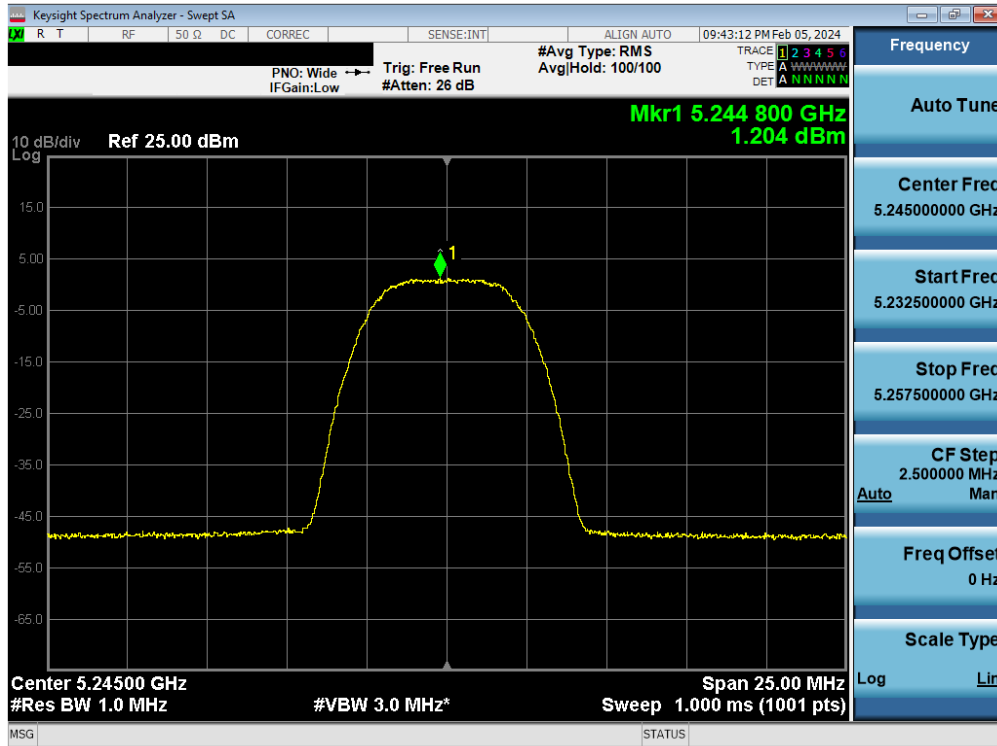


Plot 7-114. ISED PSD Tx BF Antenna WF8 (HDR8, ePA – 5204MHz)

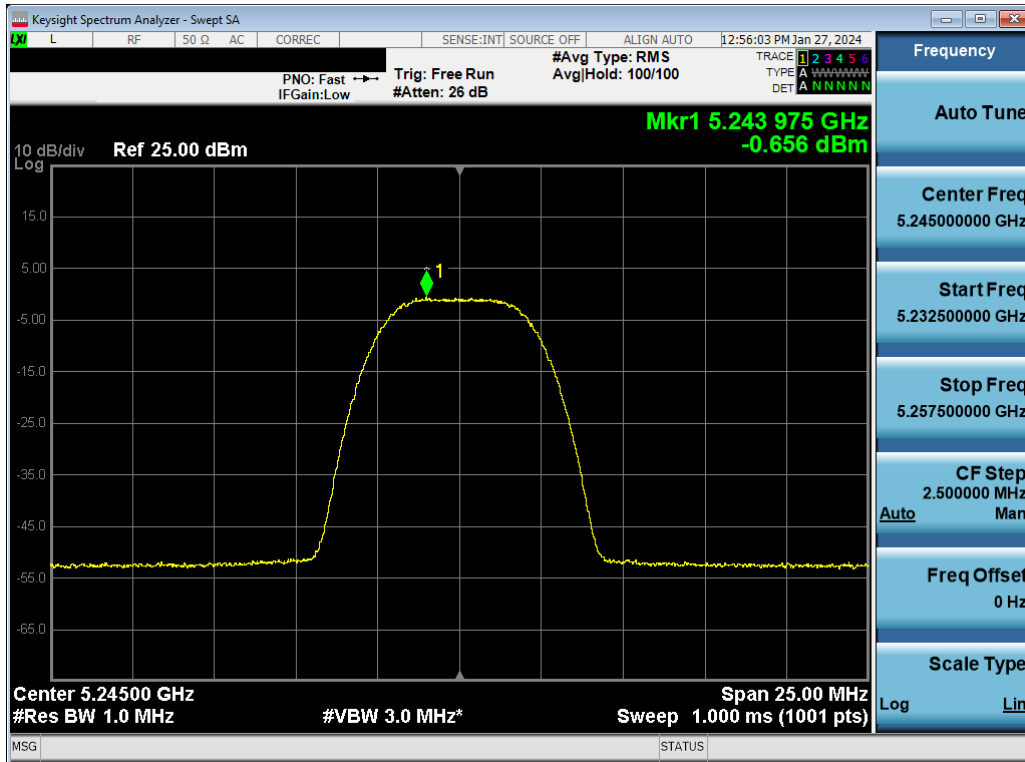


Plot 7-115. ISED PSD Tx BF Antenna WF7a (HDR8, ePA – 5204MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 92 of 151



Plot 7-116. ISED PSD Tx BF Antenna WF8 (HDR8, ePA- 5245MHz)



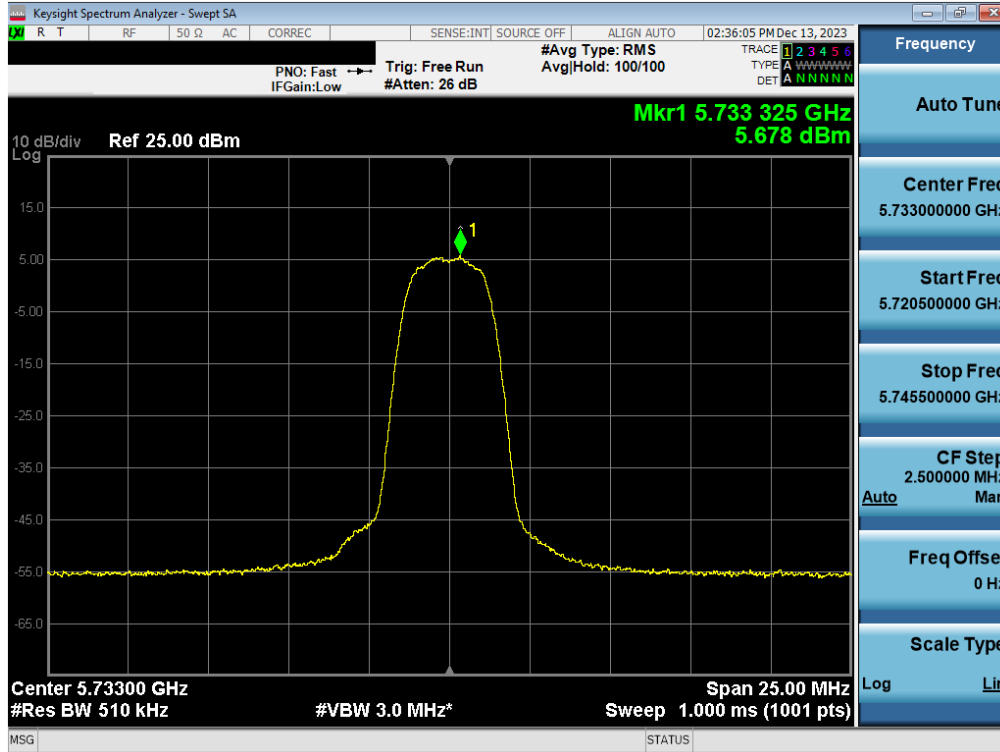
Plot 7-117. ISED PSD Tx BF Antenna WF7a (HDR8, ePA- 5245MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 93 of 151

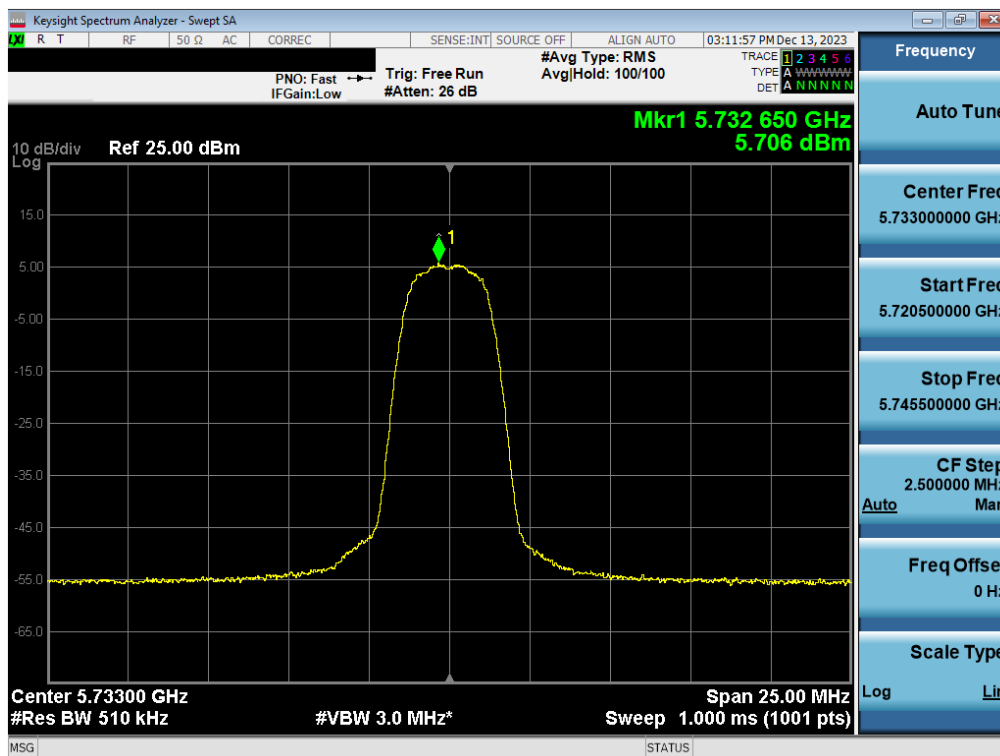
	Frequency [MHz]	Data Rate [Mbps]	Mode	Power Scheme	Antenna WF8 Power Density [dBm/500kHz]	Antenna WF7a Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5733	4.0	HDR4	ePA	5.68	5.71	8.70	30.00	-21.30
	5789	4.0	HDR4	ePA	5.83	5.62	8.73	30.00	-21.27
	5844	4.0	HDR4	ePA	6.31	5.67	9.01	30.00	-20.99
	5733	4.0	HDR4	iPA	-3.63	-4.59	-1.07	30.00	-31.07
	5789	4.0	HDR4	iPA	-4.02	-4.42	-1.21	30.00	-31.21
	5844	4.0	HDR4	iPA	-3.52	-3.51	-0.51	30.00	-30.51
	5733	8.0	HDR8	ePA	3.03	2.51	5.79	30.00	-24.21
	5789	8.0	HDR8	ePA	2.87	2.58	5.74	30.00	-24.26
	5844	8.0	HDR8	ePA	2.95	2.65	5.81	30.00	-24.19
	5733	8.0	HDR8	iPA	-6.59	-7.43	-3.98	30.00	-33.98
	5789	8.0	HDR8	iPA	-6.74	-7.03	-3.87	30.00	-33.87
	5844	8.0	HDR8	iPA	-6.72	-6.72	-3.71	30.00	-33.71

Table 7-20. Power Spectral Density Measurements TXBF

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 94 of 151

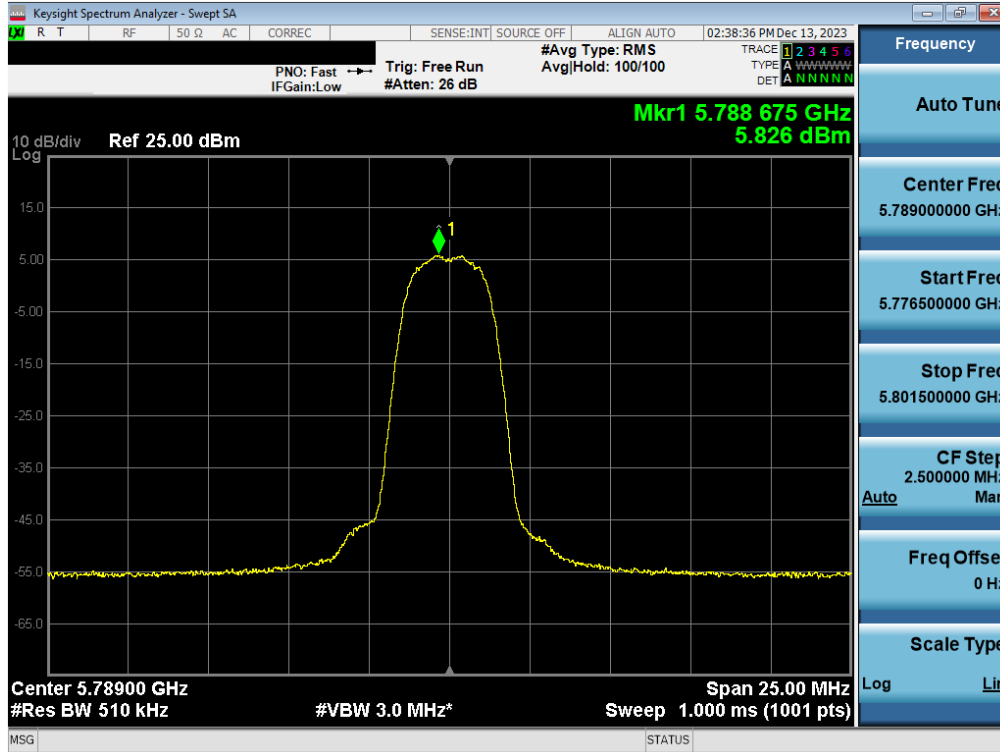


Plot 7-118. PSD Tx BF Antenna WF8 (HDR4, ePA 5733MHz)

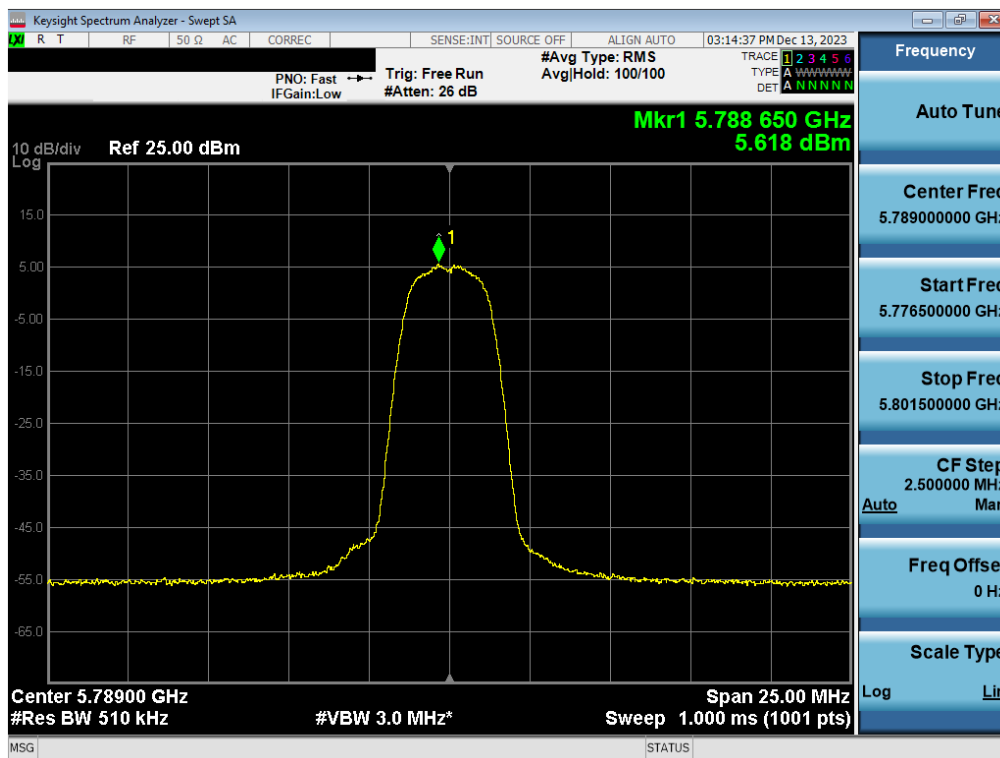


Plot 7-119. PSD Tx BF Antenna WF7a (HDR4, ePA 5733MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 95 of 151

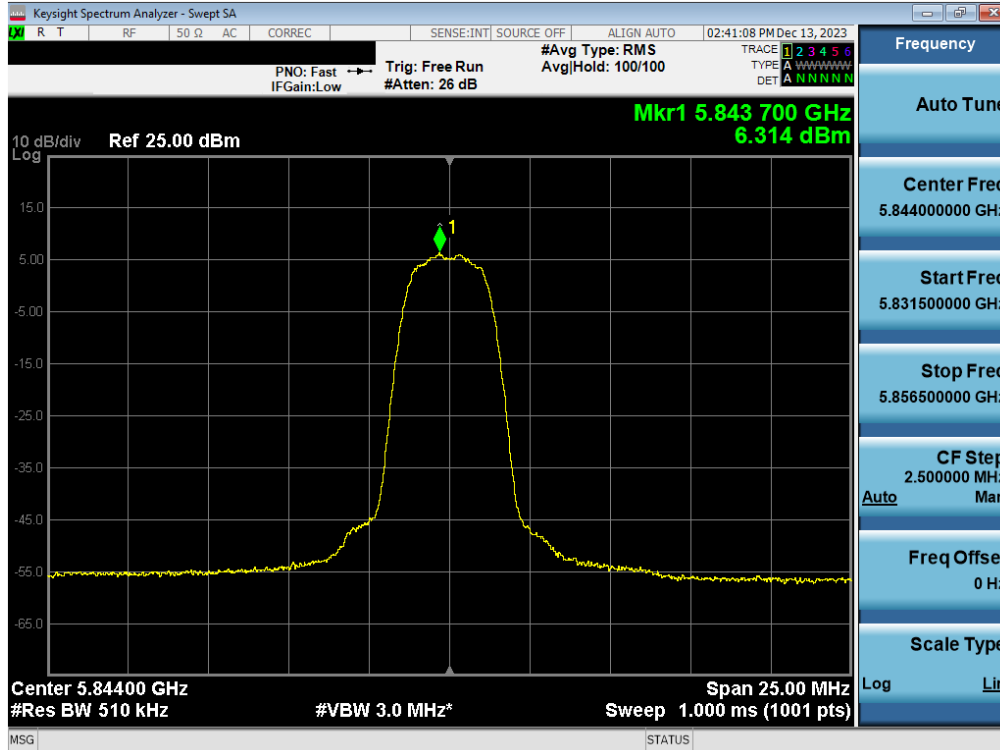


Plot 7-120. PSD Tx BF Antenna WF8 (HDR4, ePA 5789MHz)

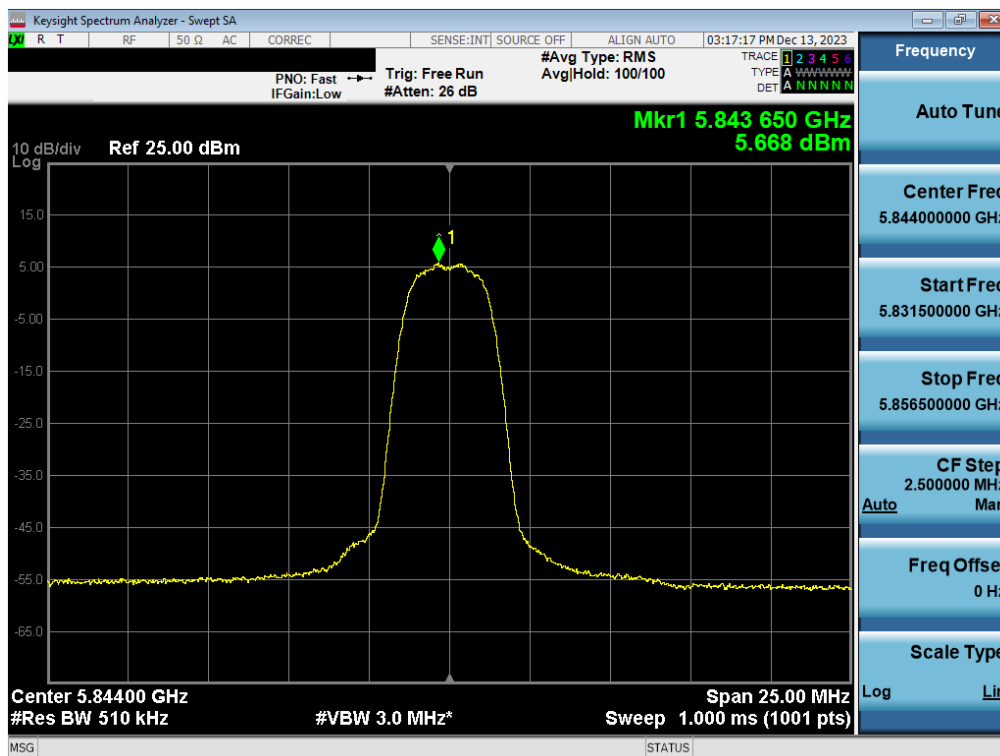


Plot 7-121. PSD Tx BF Antenna WF7a (HDR4, ePA 5789MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 96 of 151

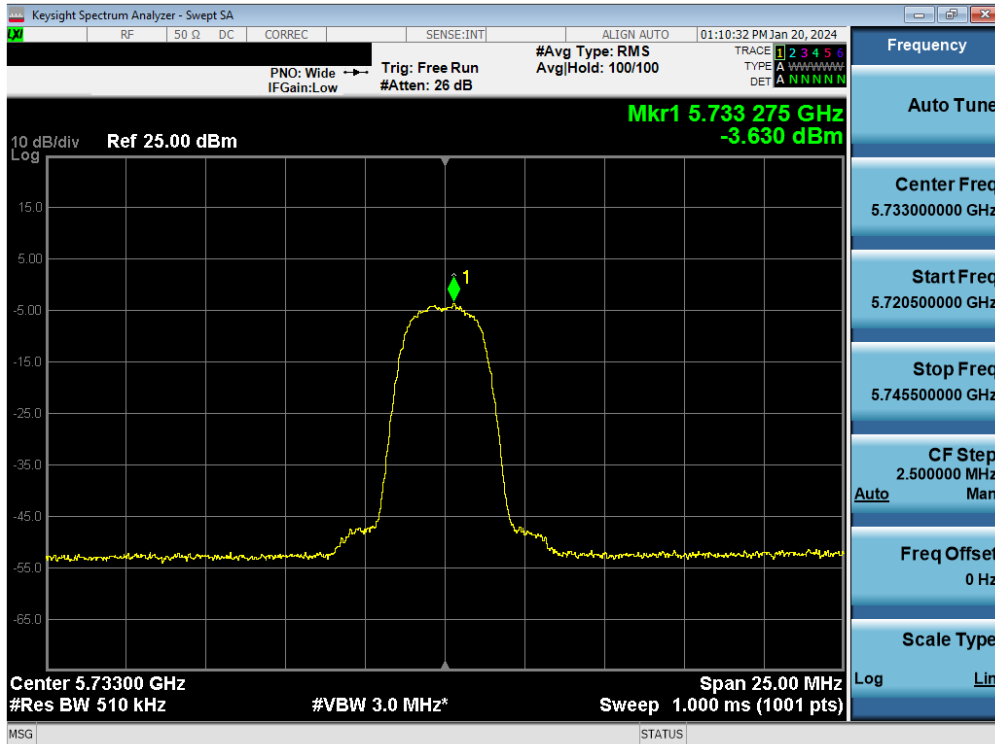


Plot 7-122. PSD Tx BF Antenna WF8 (HDR4, ePA 5844MHz)

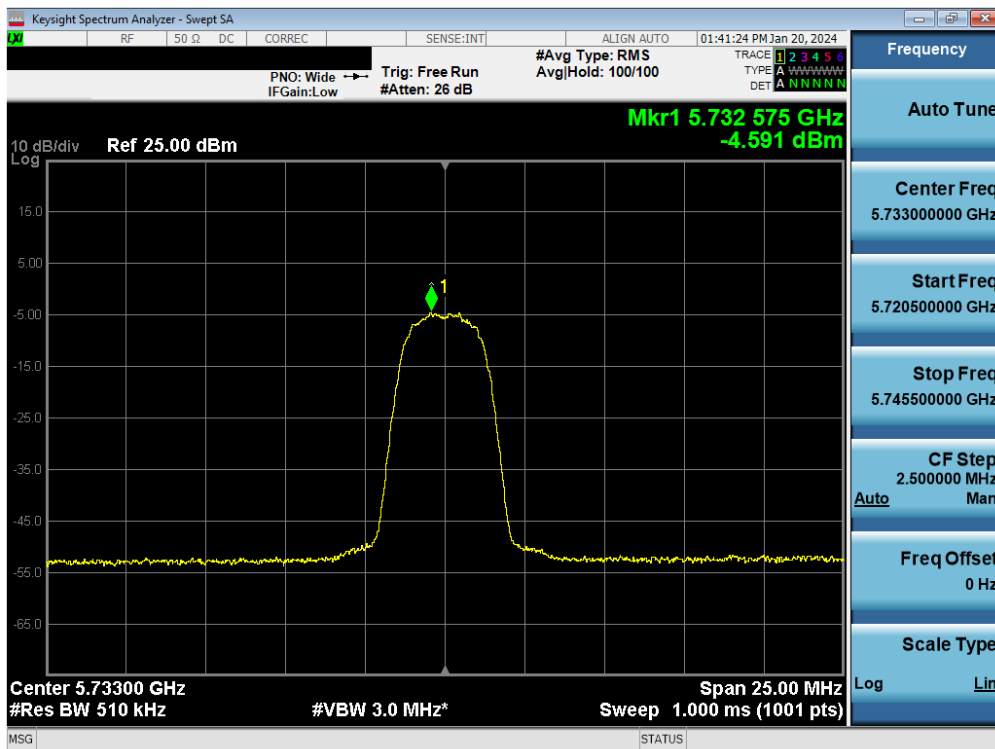


Plot 7-123. PSD Tx BF Antenna WF7a (HDR4, ePA 5844MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 97 of 151

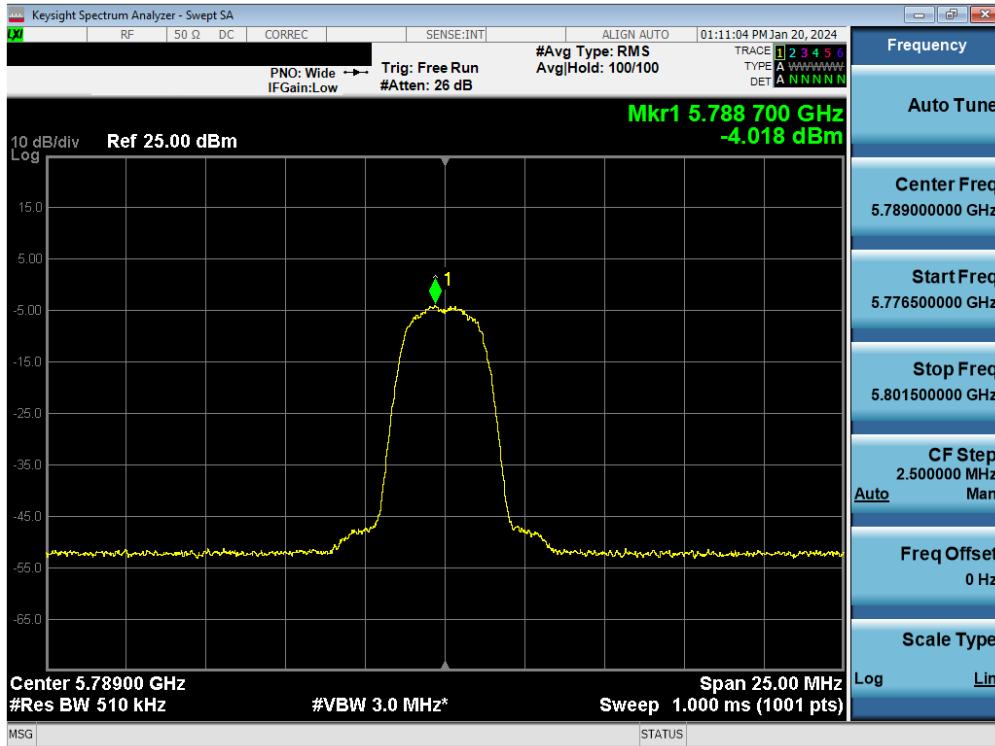


Plot 7-124. PSD Tx BF Antenna WF8 (HDR4, iPA 5733MHz)

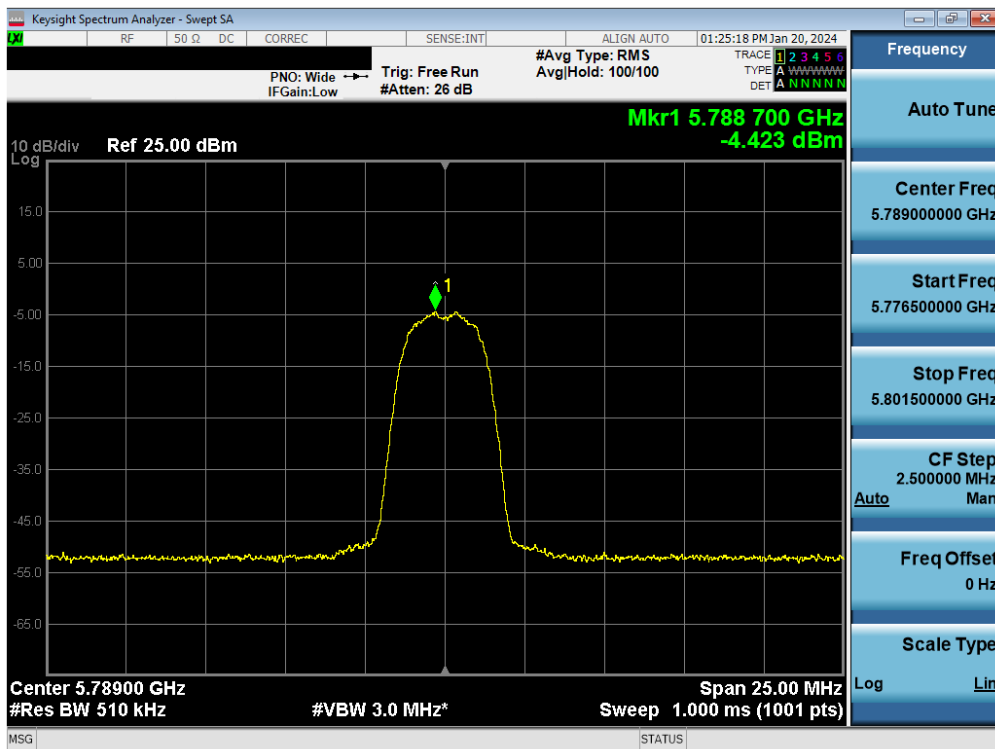


Plot 7-125. PSD Tx BF Antenna WF7a (HDR4, iPA 5733MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 98 of 151

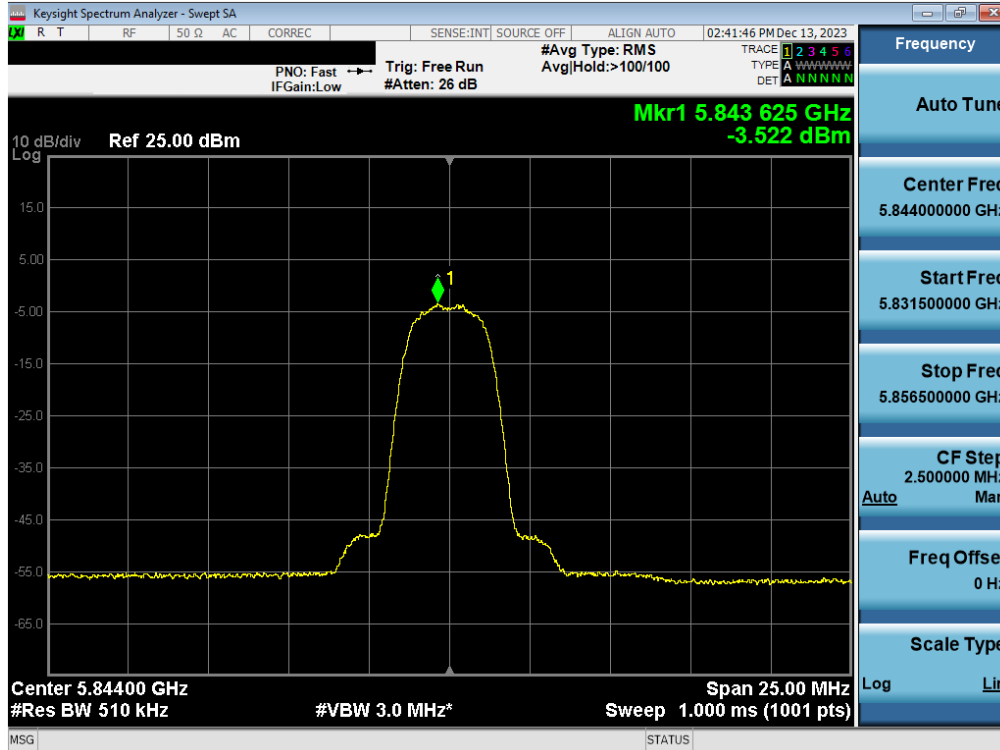


Plot 7-126. PSD Tx BF Antenna WF8 (HDR4, iPA 5789MHz)

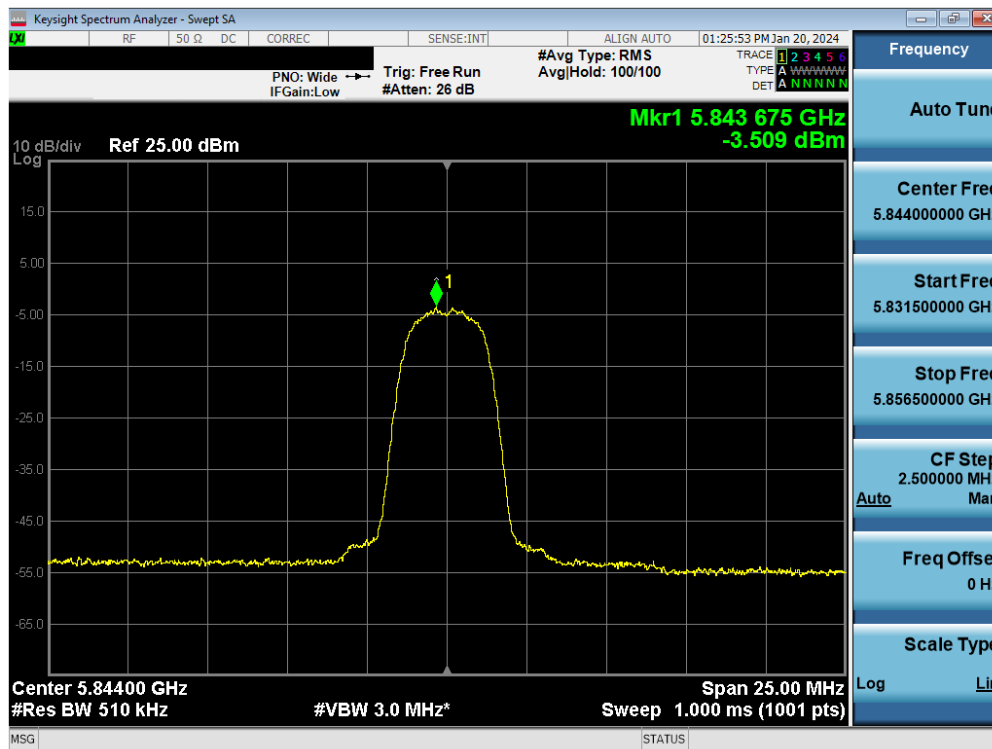


Plot 7-127. PSD Tx BF Antenna WF7a (HDR4, iPA 5789MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 99 of 151

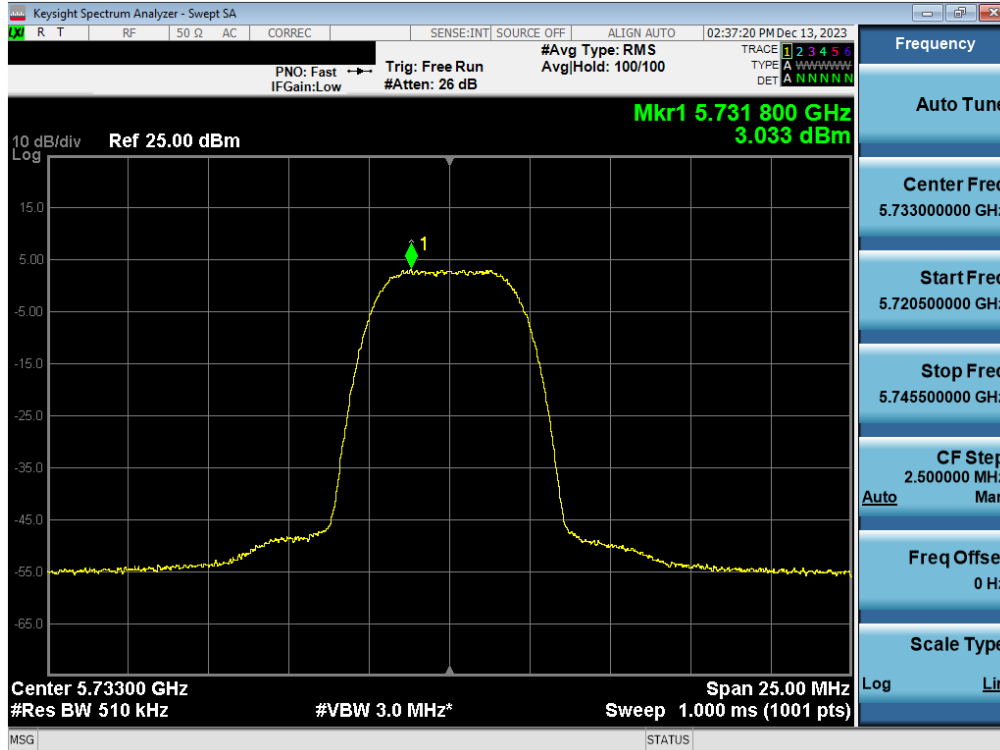


Plot 7-128. PSD Tx BF Antenna WF8 (HDR4, iPA 5844MHz)

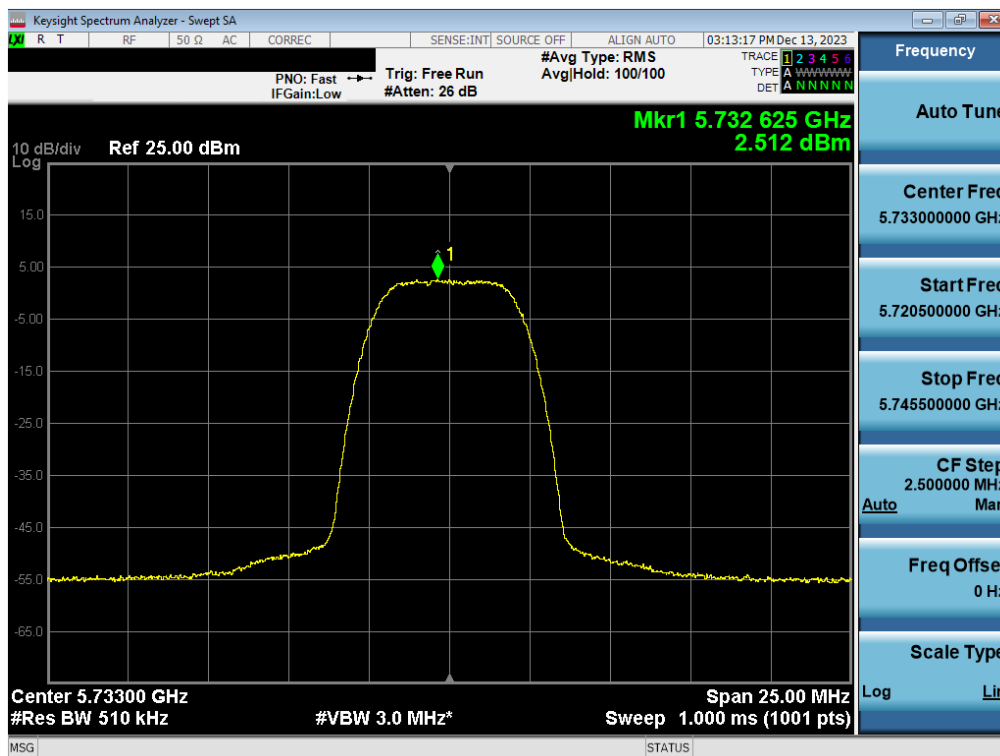


Plot 7-129. PSD Tx BF Antenna WF7a (HDR4, iPA 5844MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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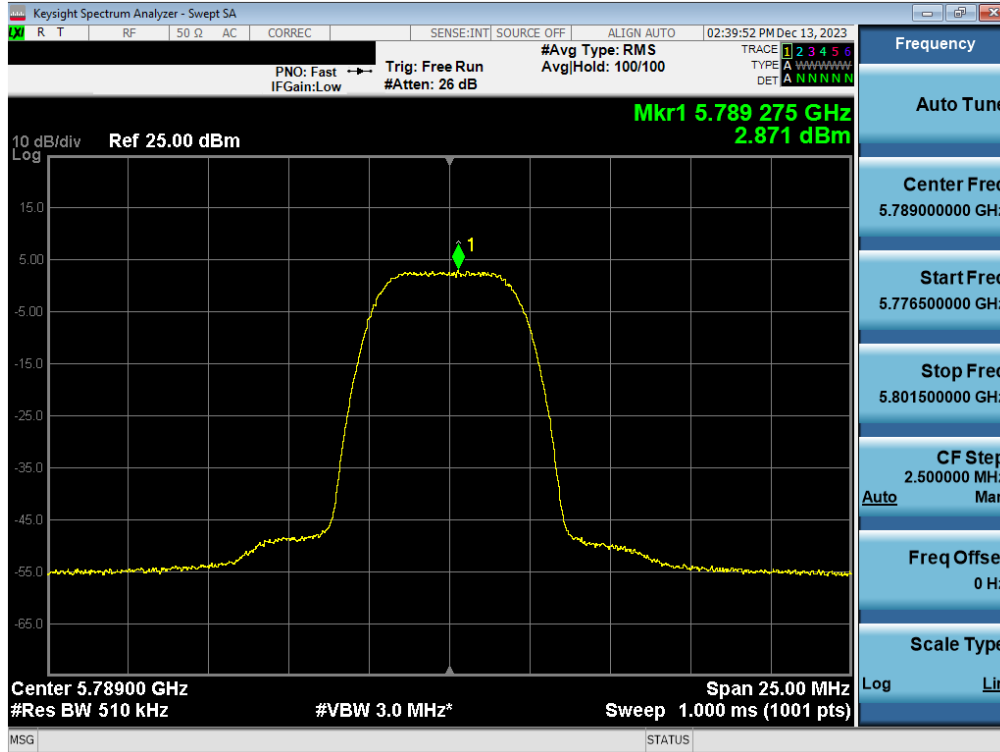


Plot 7-130. PSD Tx BF Antenna WF8 (HDR8, ePA 5733MHz)

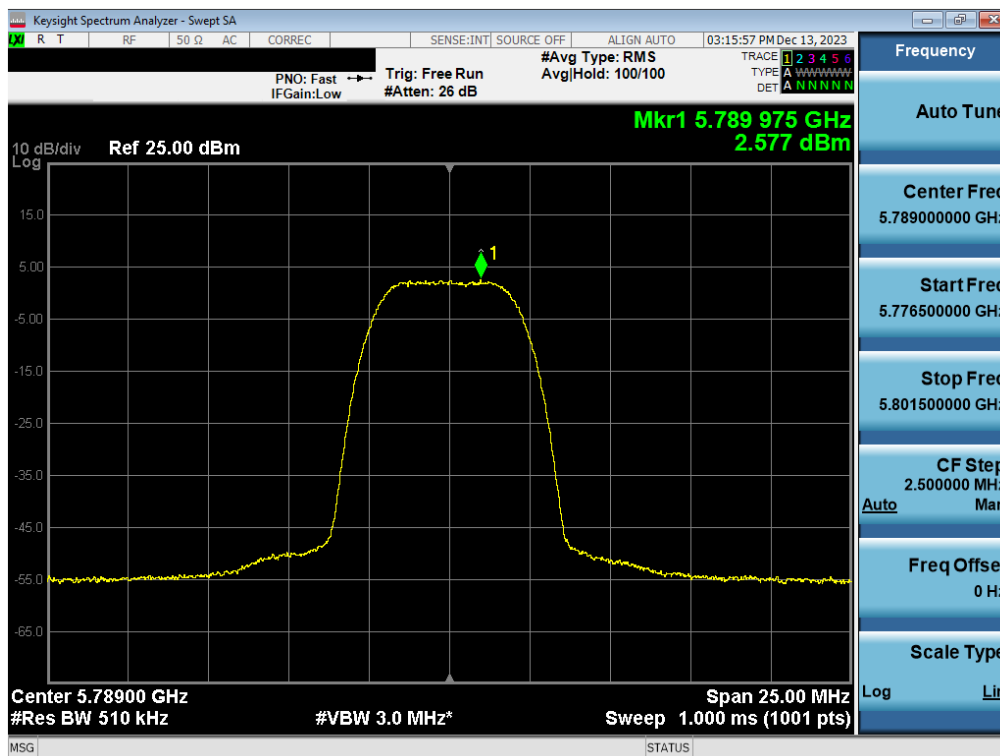


Plot 7-131. PSD Tx BF Antenna WF7a (HDR8, ePA 5733MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 101 of 151

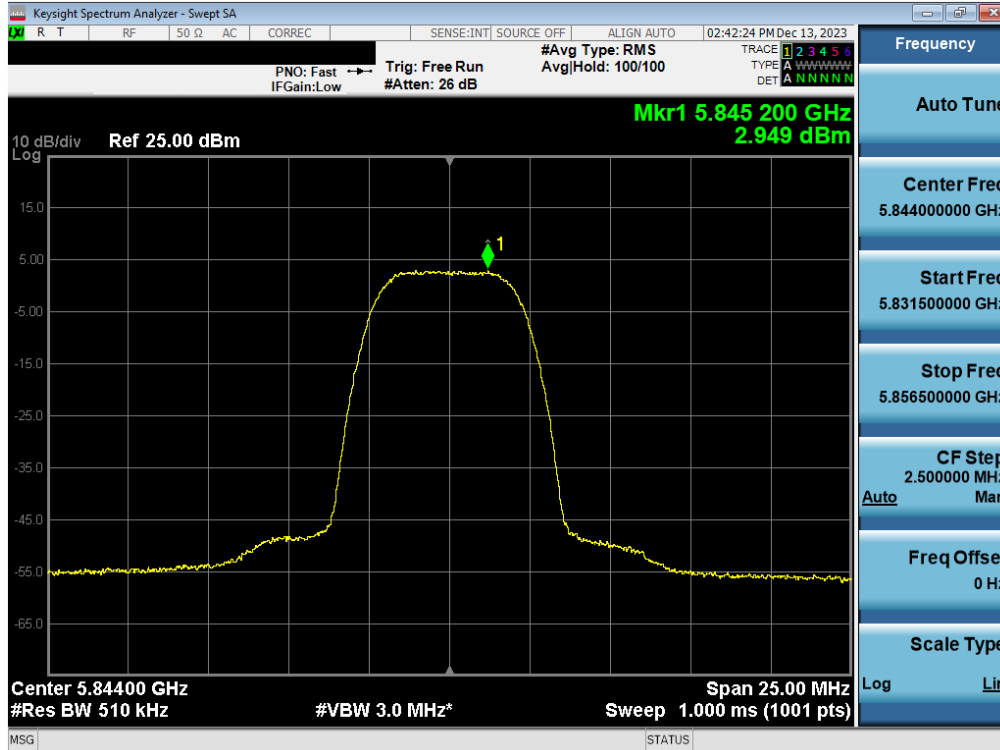


Plot 7-132. PSD Tx BF Antenna WF8 (HDR8, ePA 5789MHz)

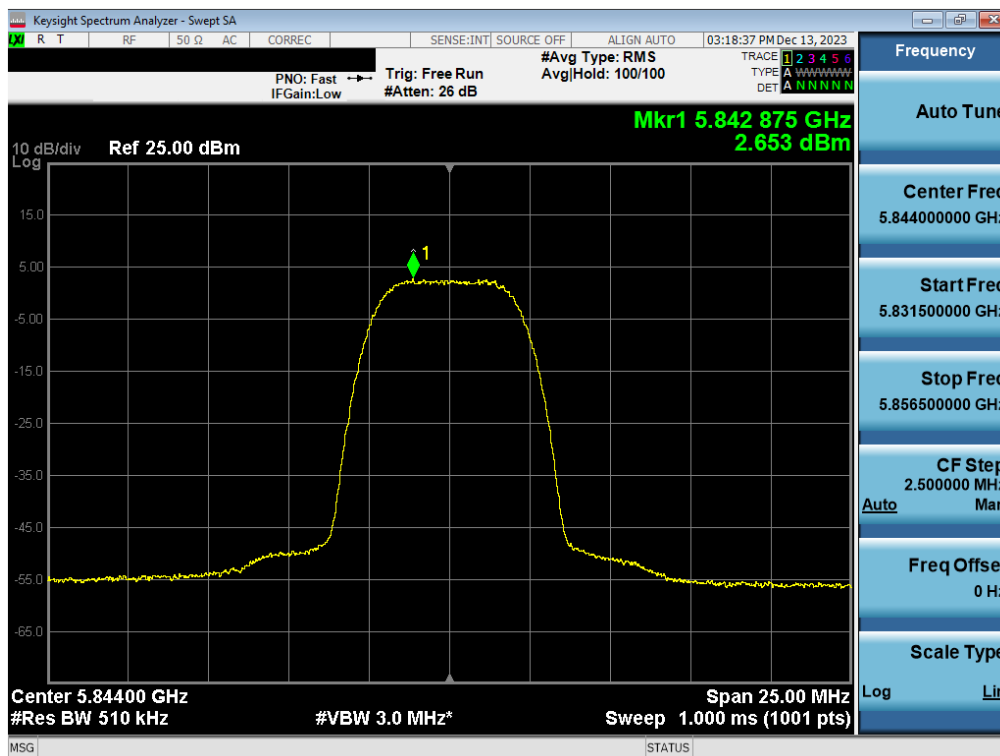


Plot 7-133. PSD Tx BF Antenna WF7a (HDR8, ePA 5789MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 102 of 151

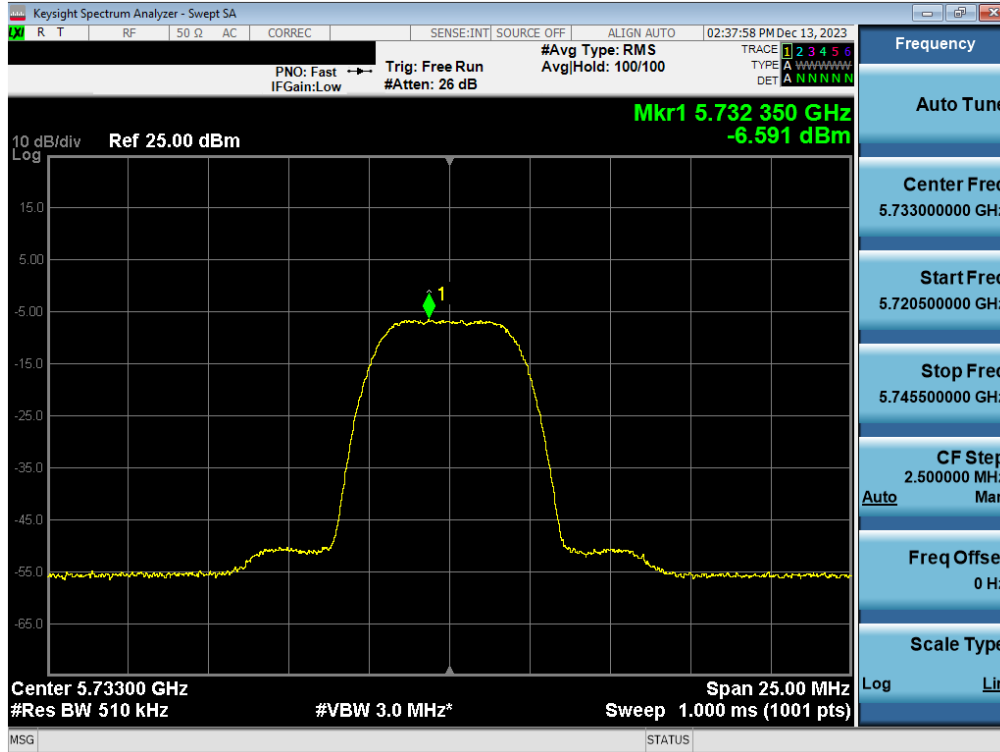


Plot 7-134. PSD Tx BF Antenna WF8 (HDR8, ePA 5844MHz)

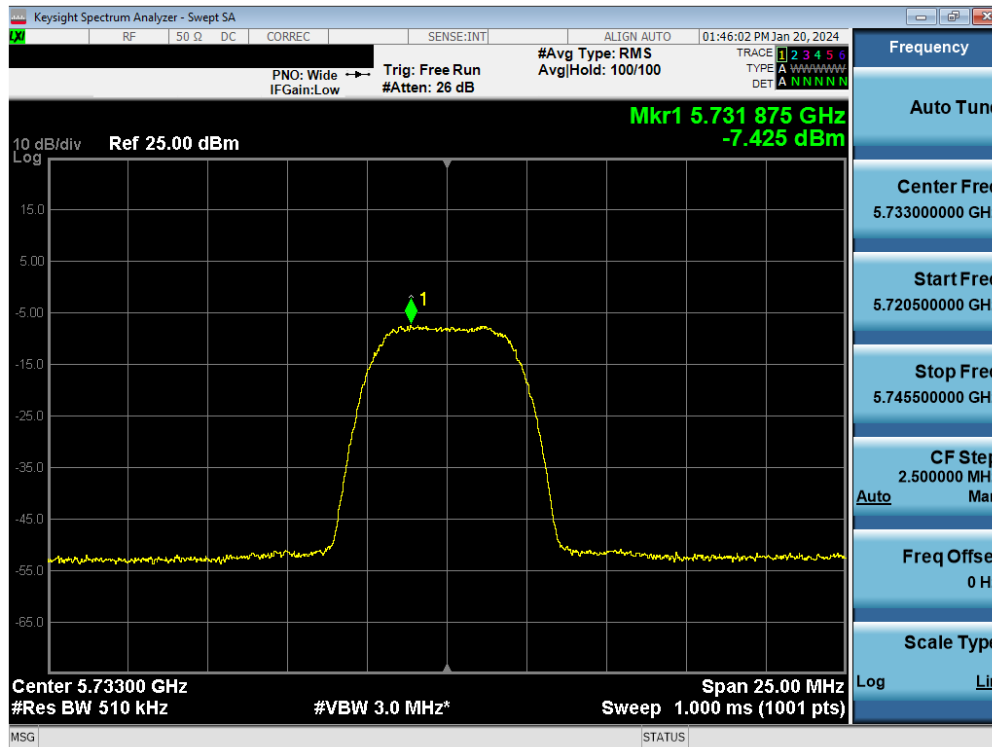


Plot 7-135. PSD Tx BF Antenna WF7a (HDR8, ePA 5844MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 103 of 151

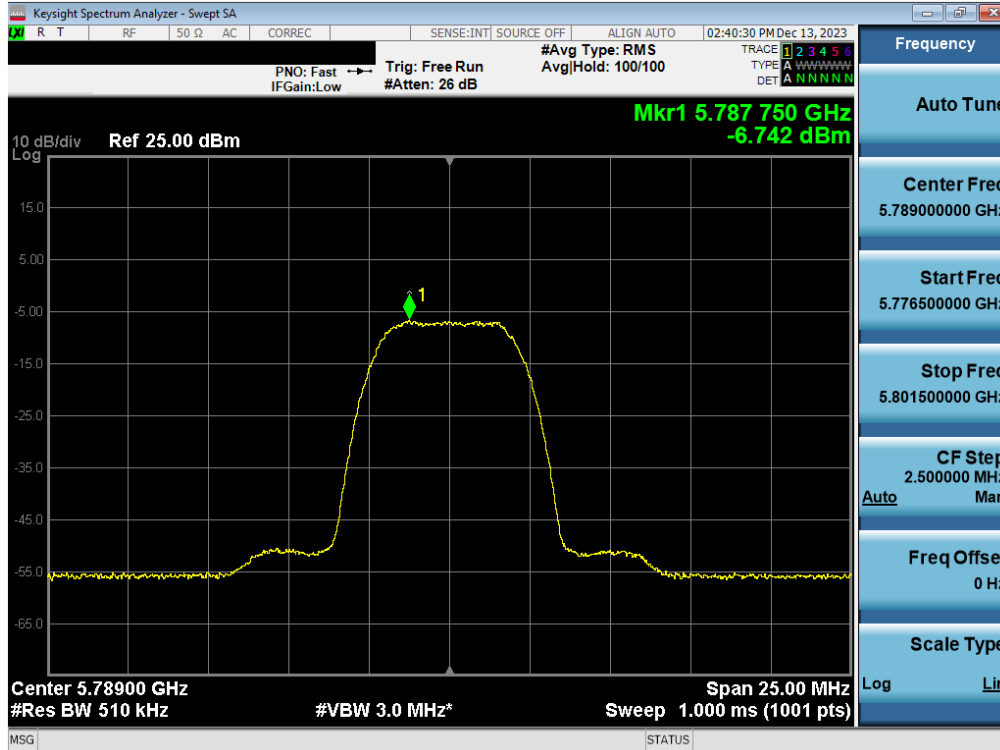


Plot 7-136. PSD Tx BF Antenna WF8 (HDR8, iPA 5733MHz)

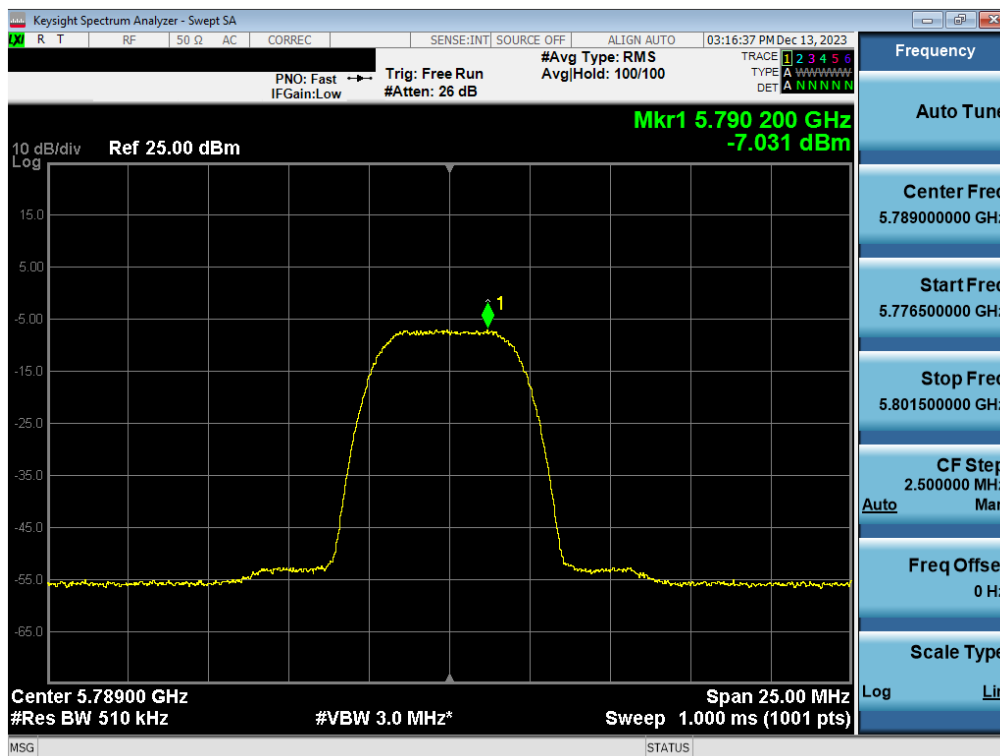


Plot 7-137. PSD Tx BF Antenna WF7a (HDR8, iPA 5733MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 104 of 151

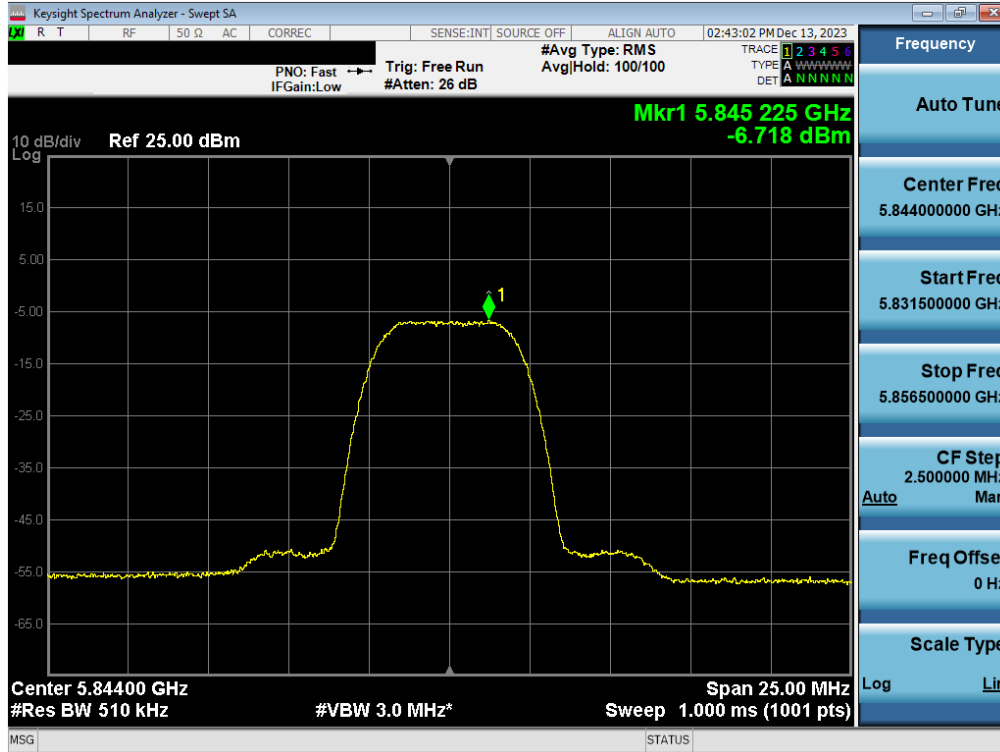


Plot 7-138. PSD Tx BF Antenna WF8 (HDR8, iPA 5789MHz)

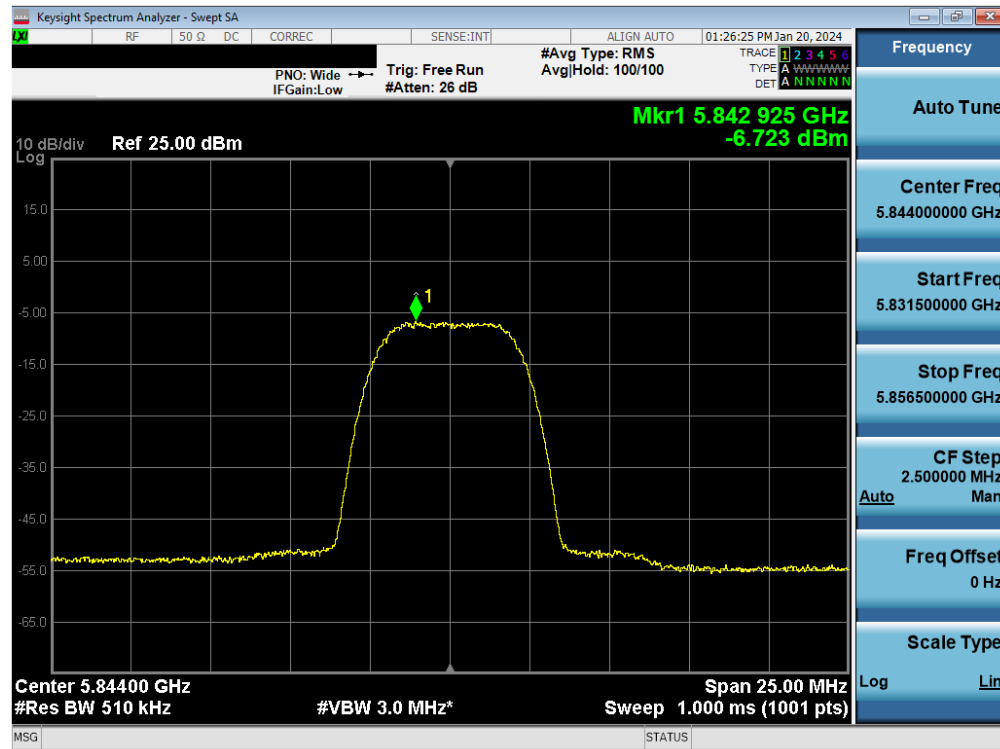


Plot 7-139. PSD Tx BF Antenna WF7a (HDR8, iPA 5789MHz)

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 105 of 151



Plot 7-140. PSD Tx BF Antenna WF8 (HDR8, iPA 5844MHz)



Plot 7-141. PSD Tx BF Antenna WF7a (HDR8, iPA 5844MHz)

FCC ID: BCGA2902 IC: 579C-A2902		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 WF8 and Antenna WF7a 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:

Assuming the average conducted power spectral density was measured to 0.53 dBm for Antenna WF8 and -1.40 dBm for Antenna WF7a.

$$\text{Antenna WF8} + \text{Antenna WF7a} = \text{TxBF}$$

$$(0.53 \text{ dBm} + -1.40 \text{ dBm}) = (1.129 \text{ mW} + 0.724 \text{ mW}) = 1.853 \text{ mW} = 2.68 \text{ dBm}$$

Sample e.i.r.p. Calculation:

At 5162MHz, the average conducted power spectral density was measured to be 2.68 dBm with an Antenna gain of 5.15 dBi.

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

$$2.68 \text{ dBm} + 5.15 \text{ dBi} = 7.83 \text{ dBm}$$

FCC ID: BCGA2902 IC: 579C-A2902	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-21 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-21. 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

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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.

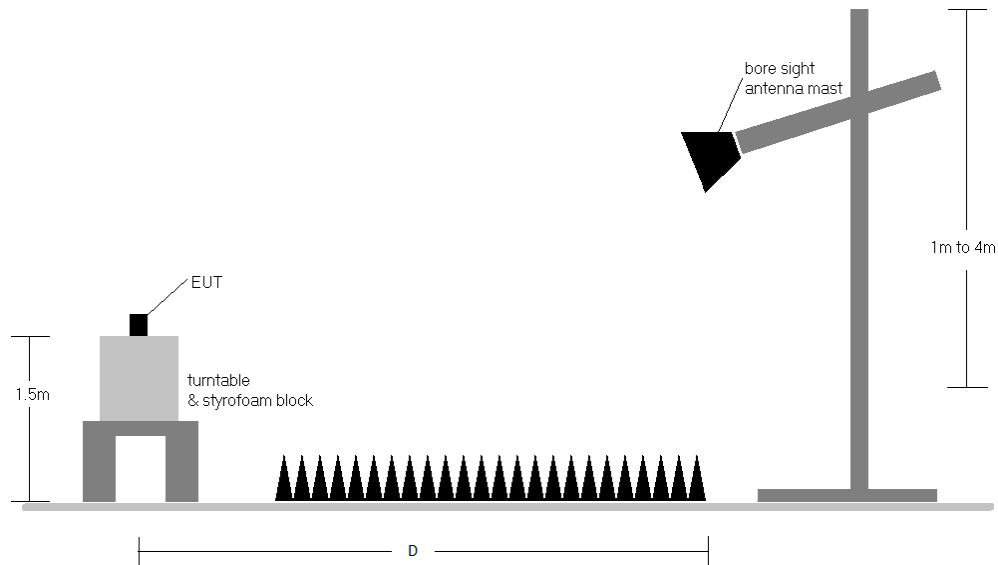


Figure 7-5. Test Instrument & Measurement Setup

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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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 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-21.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-21. 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. The 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 7.6.2 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

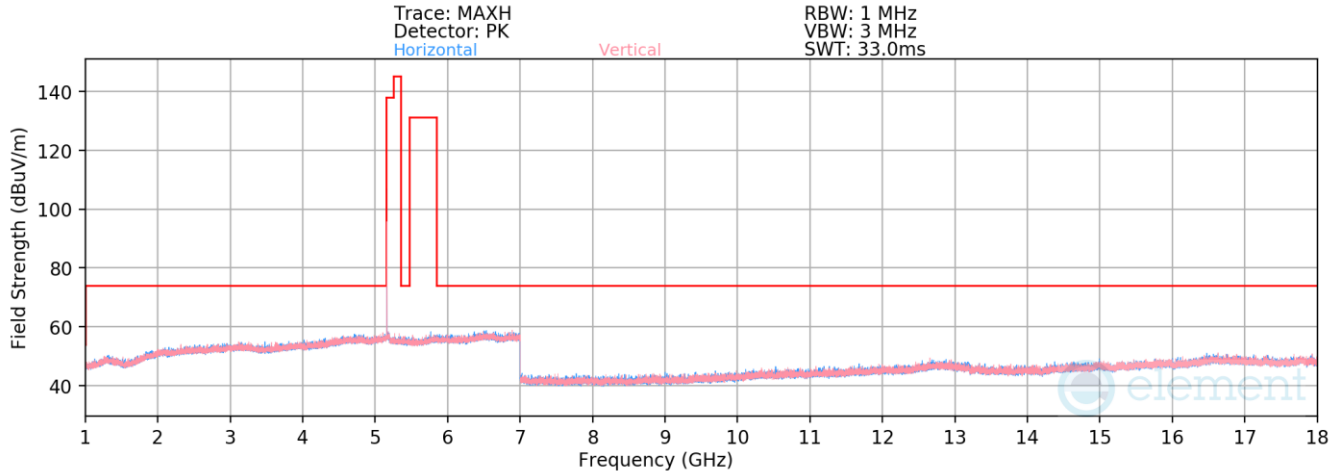
FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 110 of 151

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7.6.1 Radiated Spurious Emissions (1-18GHz)

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

Antenna WF8



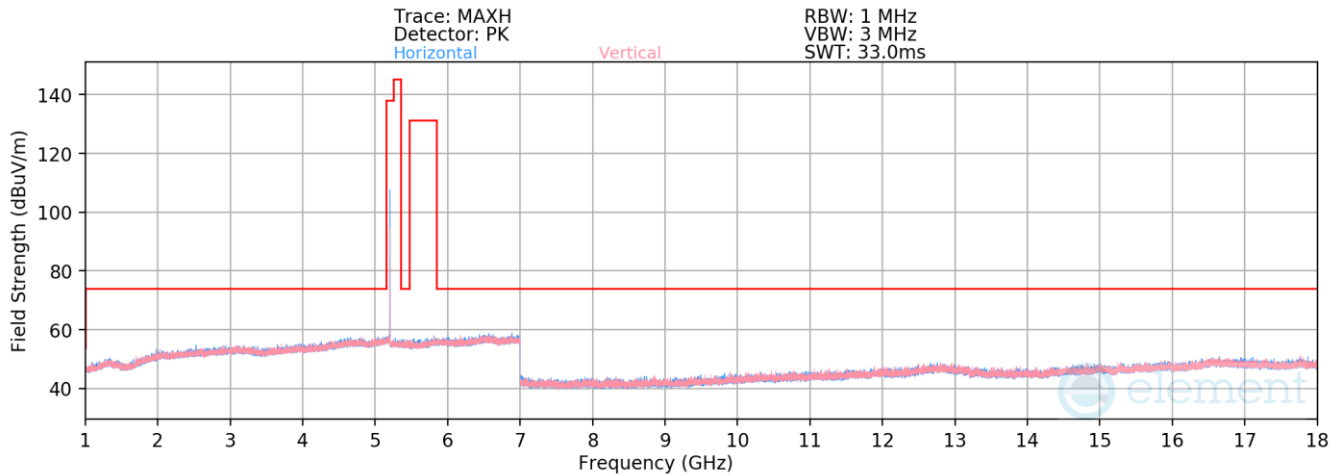
Plot 7-142. Radiated Spurious Emissions 1-18GHz Antenna WF8 (HDR4, ePA – 5162MHz)

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 [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10324.00	Peak	V	-	-	-66.84	5.91	46.07	68.20	-22.13
* 15486.00	Average	V	-	-	-81.80	12.24	37.44	53.98	-16.54
* 15486.00	Peak	V	-	-	-70.21	12.24	49.03	73.98	-24.95

Table 7-22. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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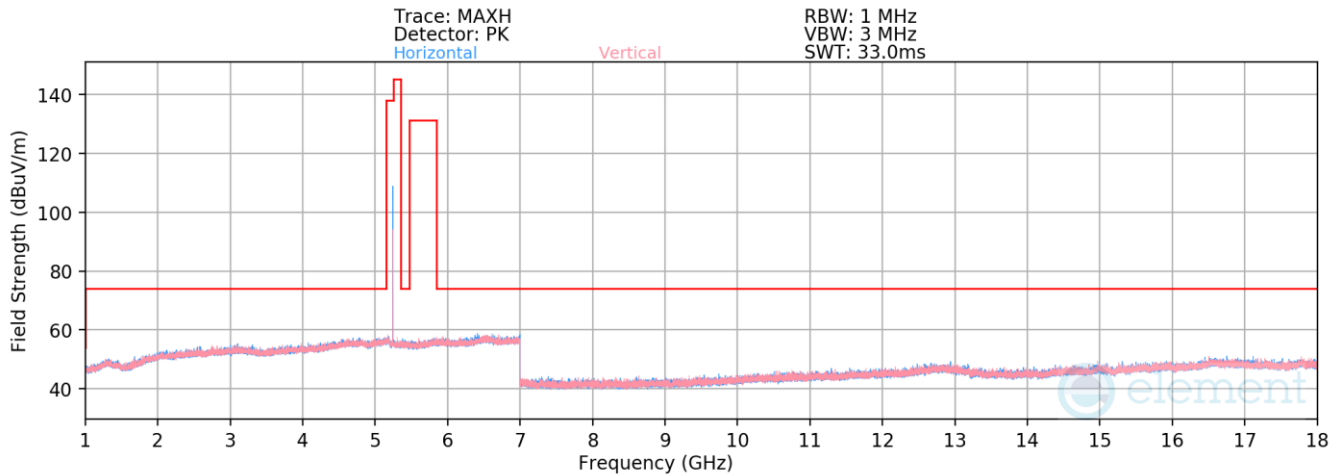
Plot 7-143. Radiated Spurious Emissions 1-18GHz Antenna WF8 (HDR4, ePA – 5204MHz)

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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10408.00	Peak	V	-	-	-67.42	6.27	45.85	68.20	-22.35
* 15612.00	Average	V	-	-	-81.49	12.66	38.17	53.98	-15.81
* 15612.00	Peak	V	-	-	-70.05	12.66	49.61	73.98	-24.37

Table 7-23. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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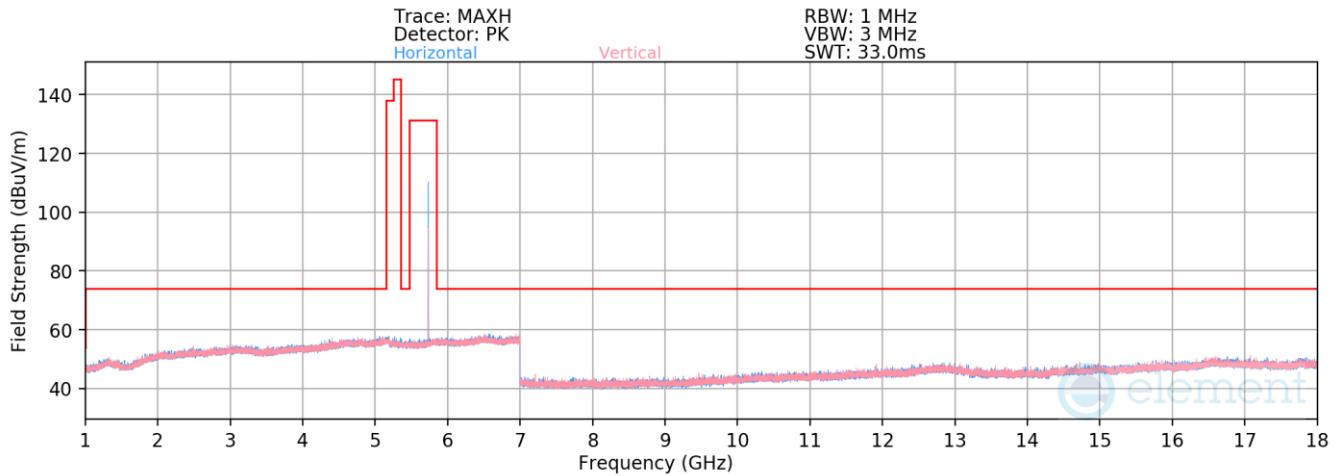
Plot 7-144. Radiated Spurious Emissions 1-18GHz Antenna WF8 (HDR4, ePA – 5245MHz)

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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10490.00	Peak	V	-	-	-67.79	6.51	45.72	68.20	-22.48
* 15735.00	Average	V	-	-	-81.89	13.10	38.21	53.98	-15.77
* 15735.00	Peak	V	-	-	-71.02	13.10	49.08	73.98	-24.90

Table 7-24. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 113 of 151



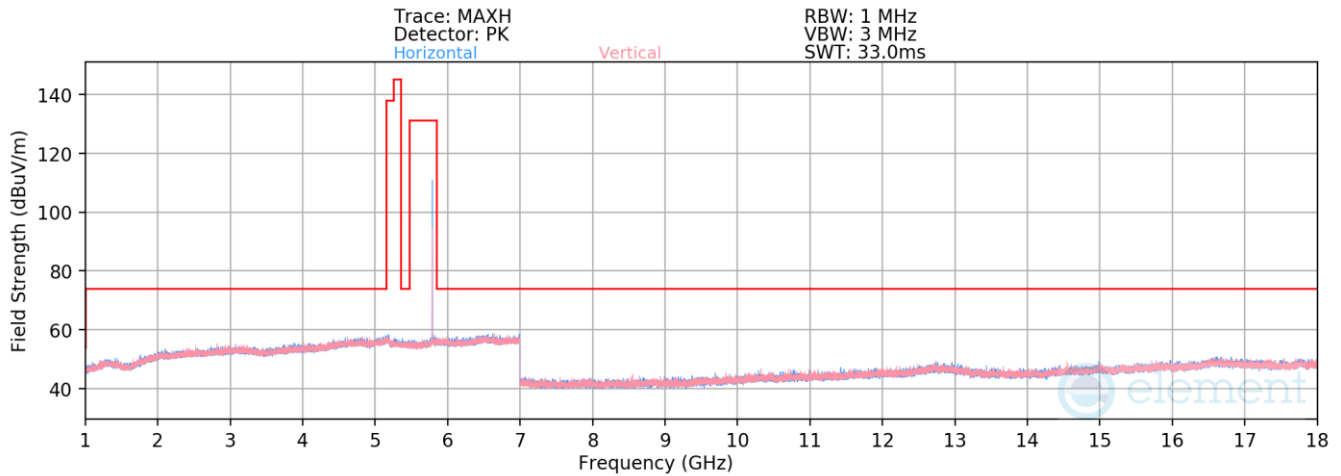
Plot 7-145. Radiated Spurious Emissions 1-18GHz Antenna WF8 (HDR4, ePA – 5733MHz)

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	-	-	-79.52	7.47	34.95	53.98	-19.03
* 11466.00	Peak	V	-	-	-67.79	7.47	46.68	73.98	-27.30
17199.00	Peak	V	-	-	-71.62	14.96	50.34	68.20	-17.86

Table 7-25. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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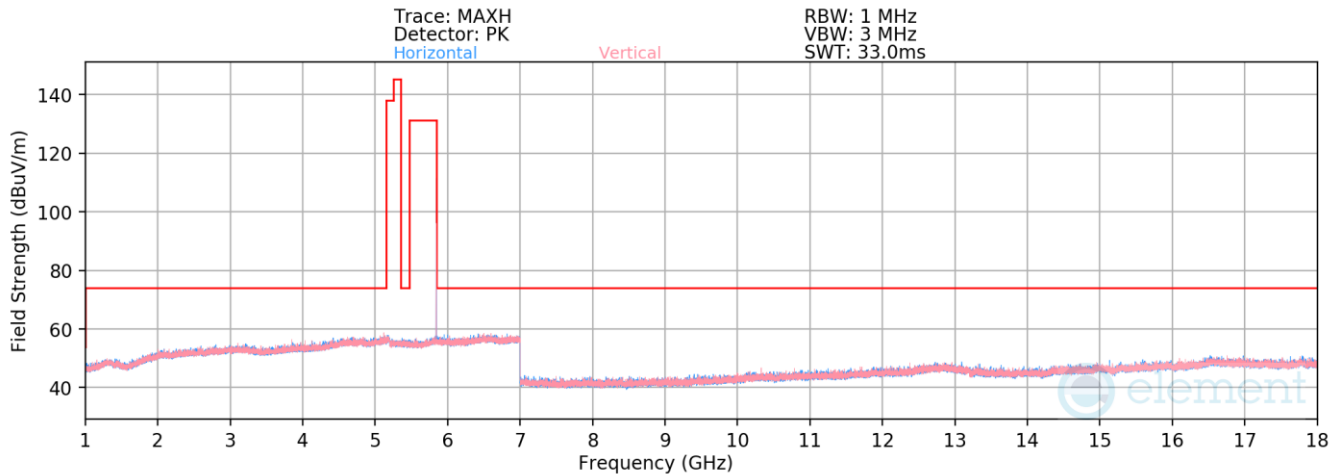
Plot 7-146. Radiated Spurious Emissions 1-18GHz Antenna WF8 (HDR4, ePA – 5789MHz)

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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11578.00	Average	V	-	-	-79.05	7.44	35.39	53.98	-18.59
* 11578.00	Peak	V	-	-	-66.76	7.44	47.68	73.98	-26.30
17367.00	Peak	V	-	-	-71.77	14.88	50.11	68.20	-18.09

Table 7-26. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-147. Radiated Spurious Emissions 1-18GHz Antenna WF8 (HDR4, ePA – 5844MHz)

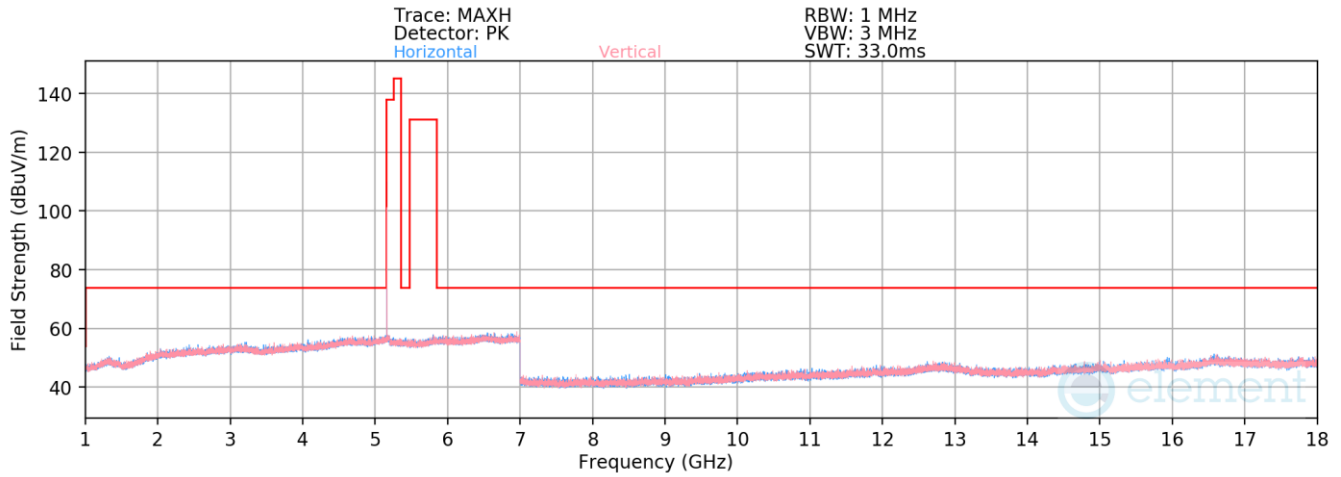
Mode: HDR4
 Data Rate: 4Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 5844MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11688.00	Average	V	-	-	-79.39	7.86	35.47	53.98	-18.51
* 11688.00	Peak	V	-	-	-68.35	7.86	46.51	73.98	-27.47
17532.00	Peak	V	-	-	-71.73	15.50	50.77	68.20	-17.43

Table 7-27. Radiated Spurious Emissions Measurements Antenna WF8

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 116 of 151

Antenna WF7a



Plot 7-148. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5162MHz)

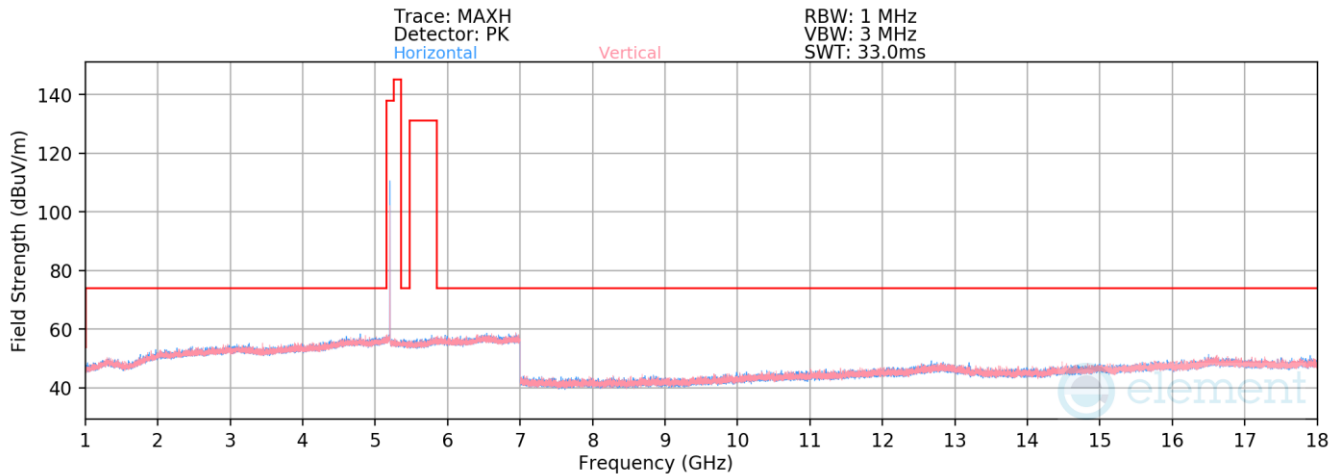
Mode:	<u>HDR4</u>
Data Rate:	<u>4Mbps</u>
Distance of Measurements:	<u>3 Meters</u>
Operating Frequency:	<u>5162MHz</u>

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	V	-	-	-66.64	5.91	46.27	68.20	-21.93
* 15486.00	Average	V	-	-	-81.90	12.24	37.34	53.98	-16.64
* 15486.00	Peak	V	-	-	-70.63	12.24	48.61	73.98	-25.37

Table 7-28. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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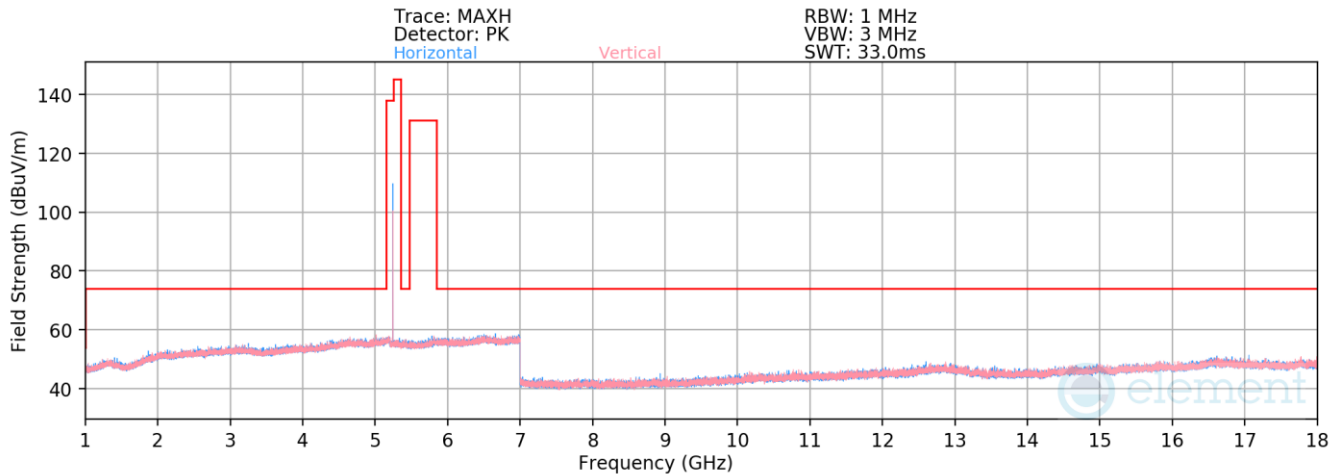
Plot 7-149. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5204MHz)

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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10408.00	Peak	V	-	-	-67.69	6.27	45.58	68.20	-22.62
* 15612.00	Average	V	-	-	-81.63	12.66	38.03	53.98	-15.95
* 15612.00	Peak	V	-	-	-69.98	12.66	49.68	73.98	-24.30

Table 7-29. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 118 of 151



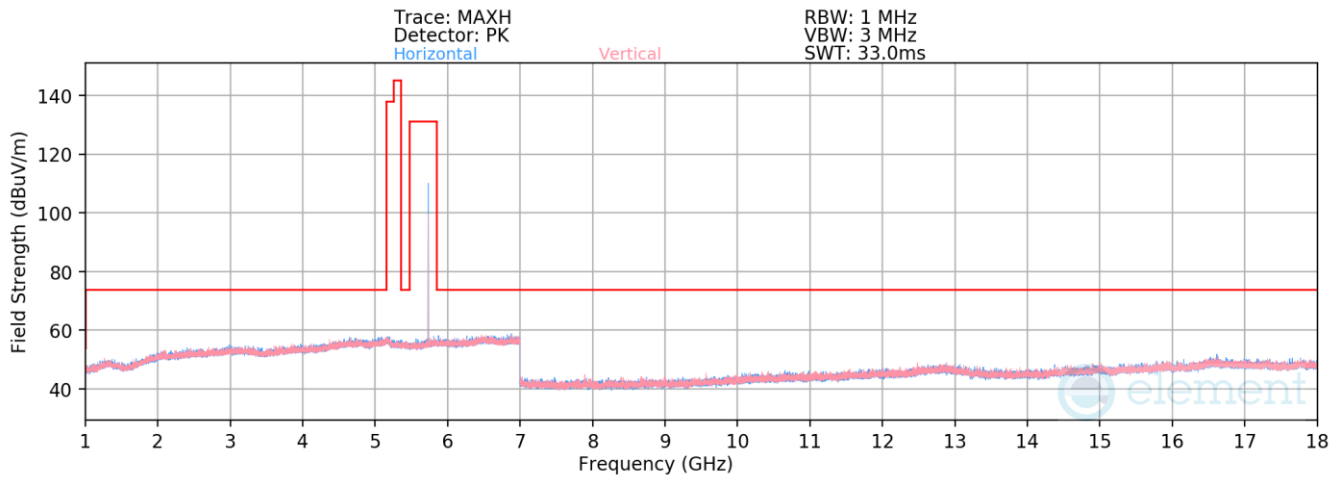
Plot 7-150. Radiated Spurious Emissions 1-18GHz Antenna WF7a (HDR4, ePA – 5245MHz)

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	-	-	-67.92	6.51	45.59	68.20	-22.61
* 15735.00	Average	V	-	-	-82.05	13.10	38.05	53.98	-15.93
* 15735.00	Peak	V	-	-	-70.69	13.10	49.41	73.98	-24.57

Table 7-30. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 119 of 151



Plot 7-151. 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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 11466.00	Average	V	-	-	-79.58	7.47	34.89	53.98	-19.09
* 11466.00	Peak	V	-	-	-68.12	7.47	46.35	73.98	-27.63
17199.00	Peak	V	-	-	-71.66	14.96	50.30	68.20	-17.90

Table 7-31. Radiated Spurious Emissions Measurements Antenna WF7a

FCC ID: BCGA2902 IC: 579C-A2902		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270063-09.BCG	Test Dates: 11/29/2023 - 3/5/2024	EUT Type: Tablet Device	Page 120 of 151