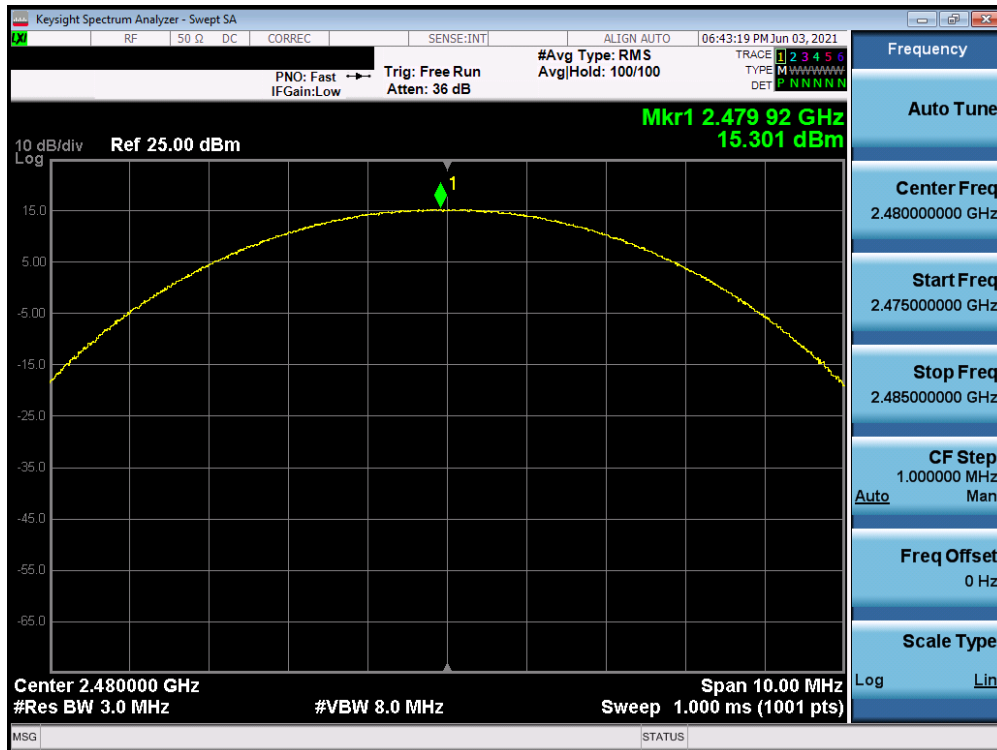
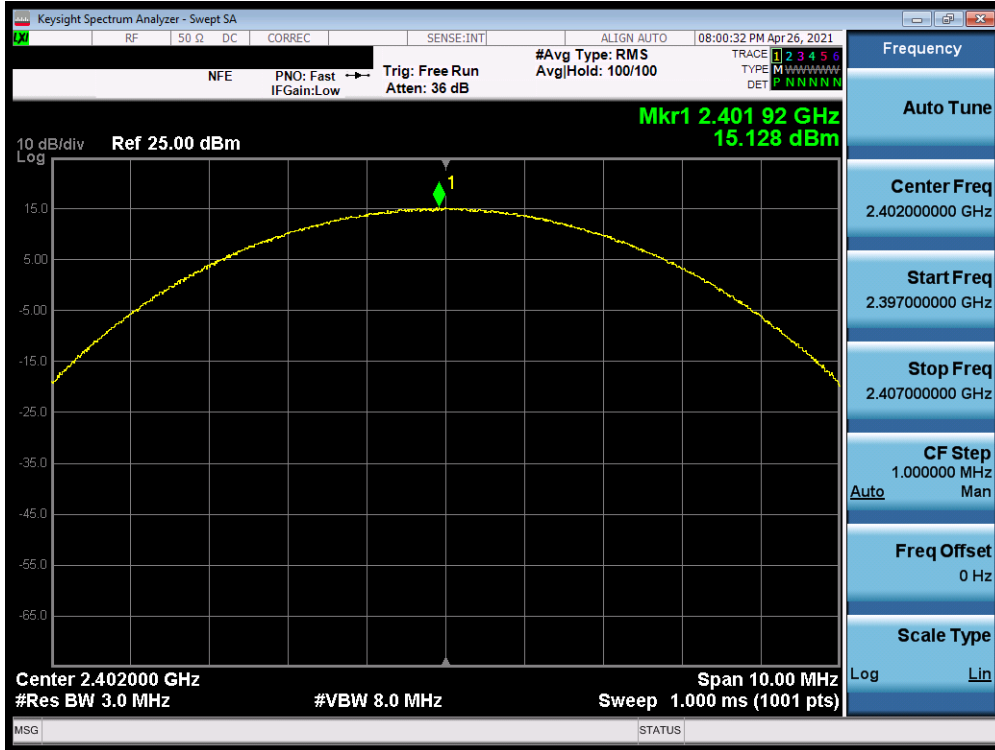


Plot 7-119. Peak Conducted Power (2Mbps, iPA – Ch. 39) – ANT0 (Q)

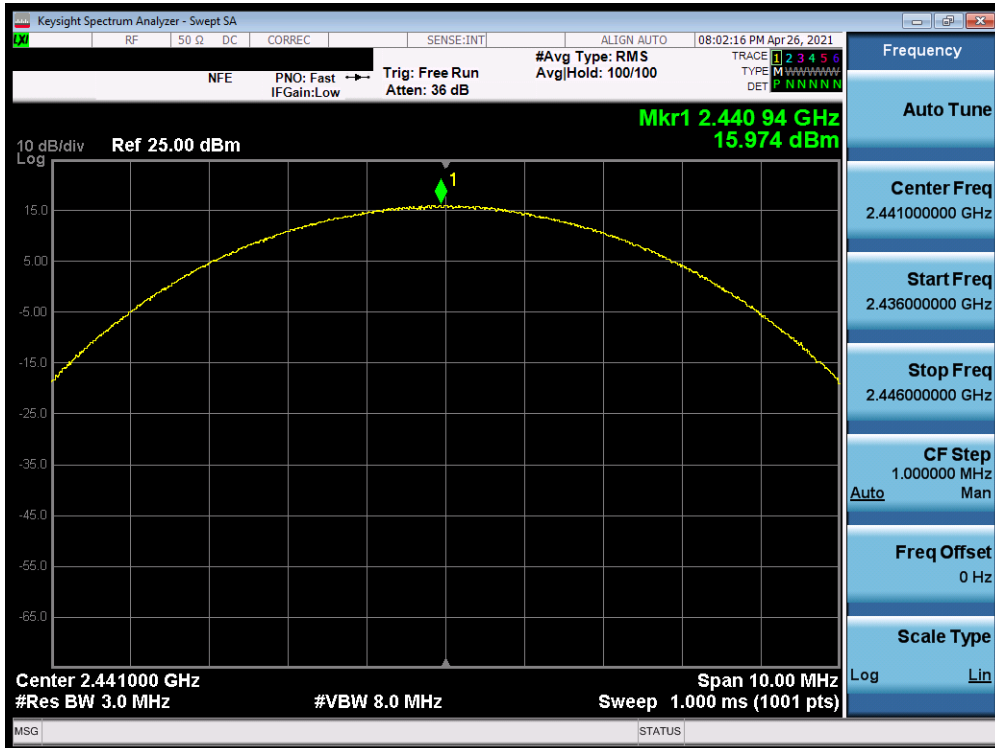


Plot 7-120. Peak Conducted Power (2Mbps, iPA – Ch. 78) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 77 of 233

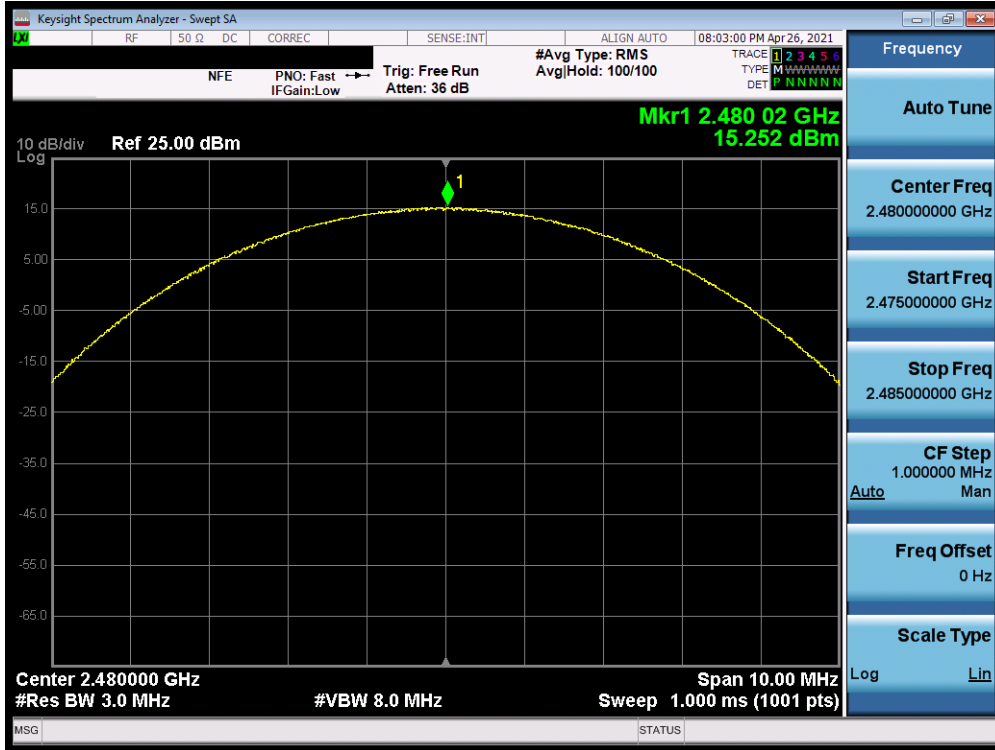


Plot 7-121. Peak Conducted Power (3Mbps, ePA – Ch. 0) – ANT0 (Q)

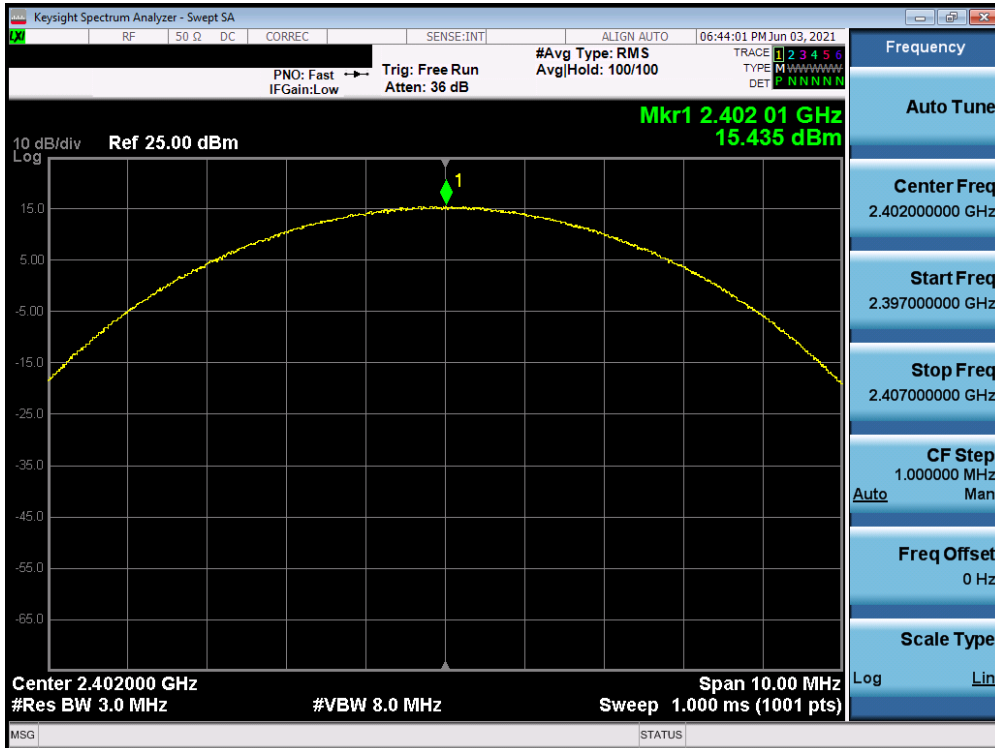


Plot 7-122. Peak Conducted Power (3Mbps, ePA – Ch. 39) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 78 of 233

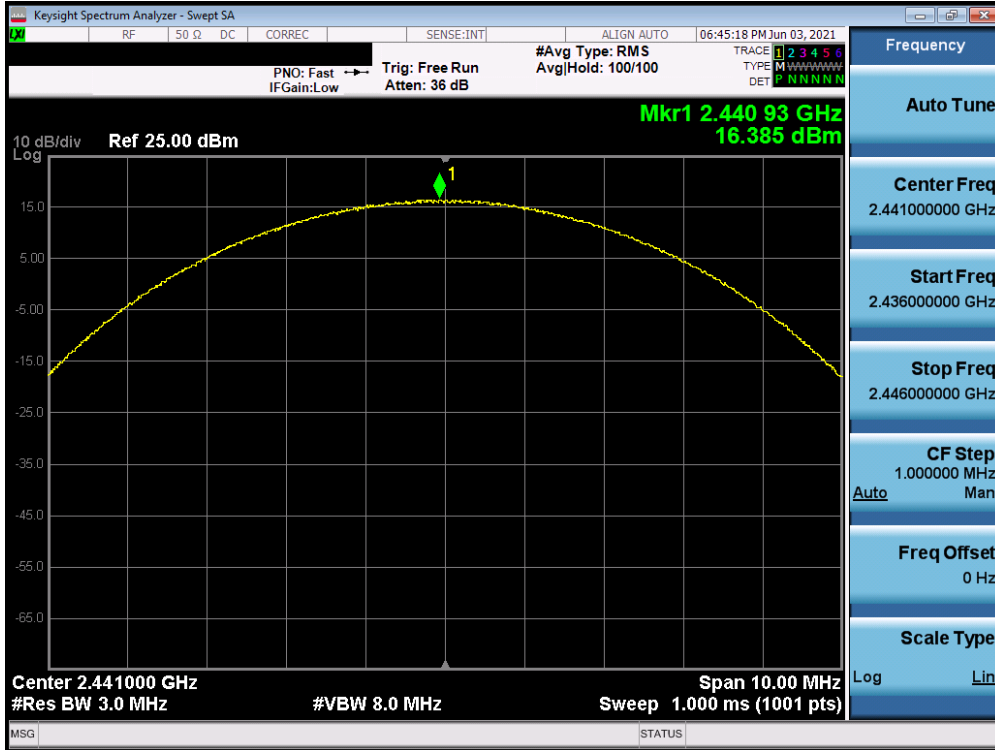


Plot 7-123. Peak Conducted Power (3Mbps, ePA – Ch. 78) – ANT0 (Q)

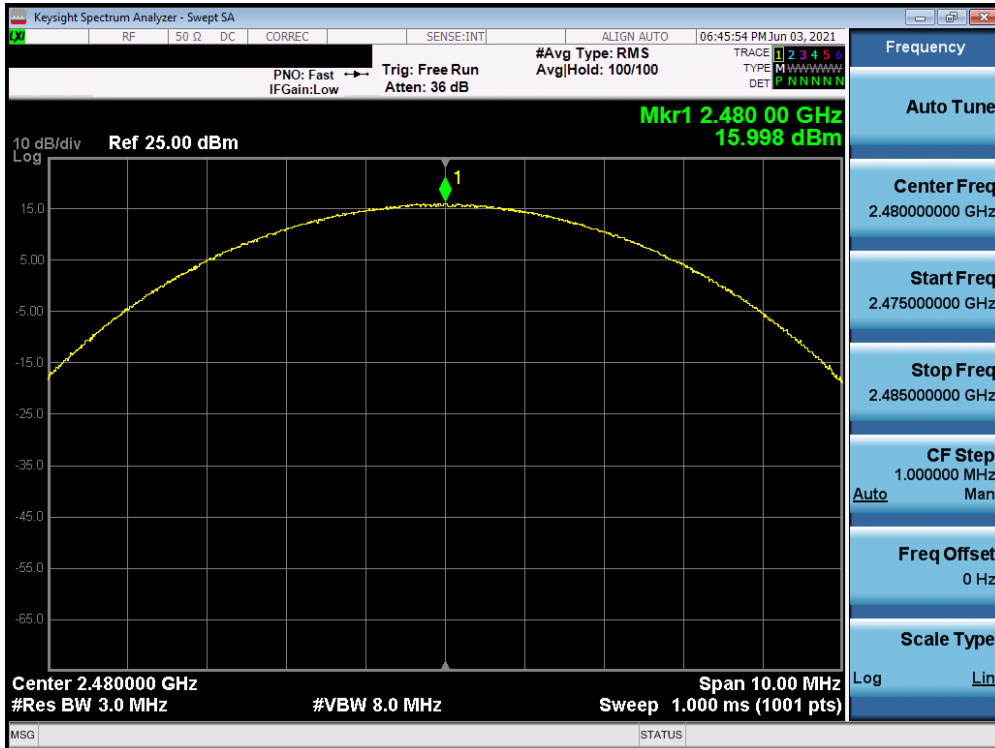


Plot 7-124. Peak Conducted Power (3Mbps, iPA – Ch. 0) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 79 of 233

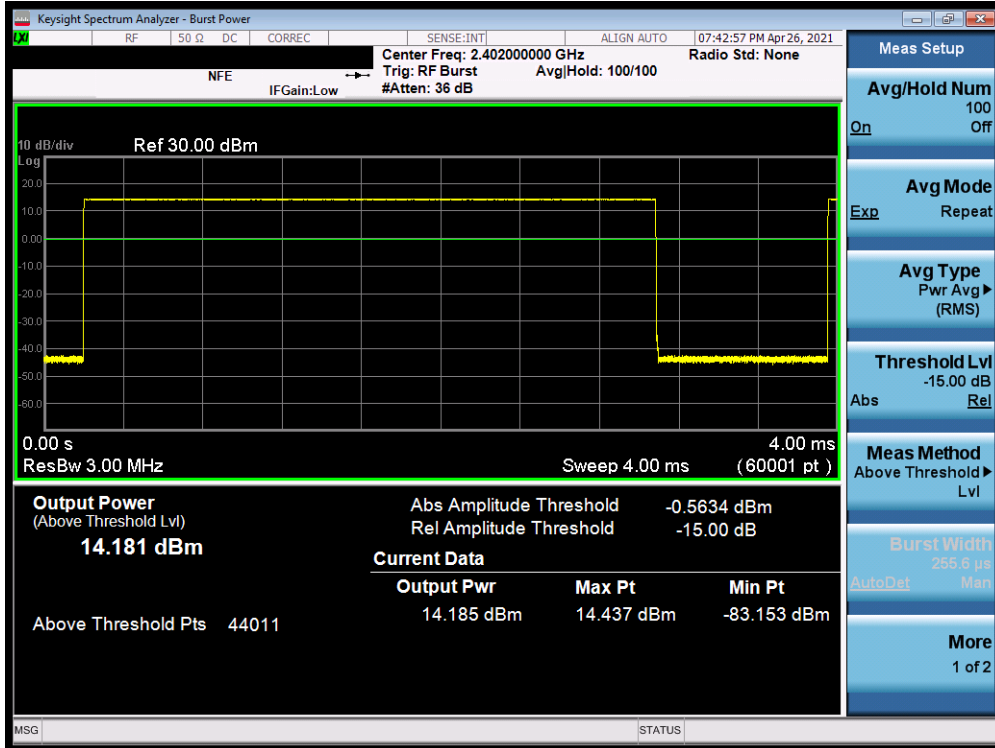


Plot 7-125. Peak Conducted Power (3Mbps, iPA – Ch. 39) – ANT0 (Q)

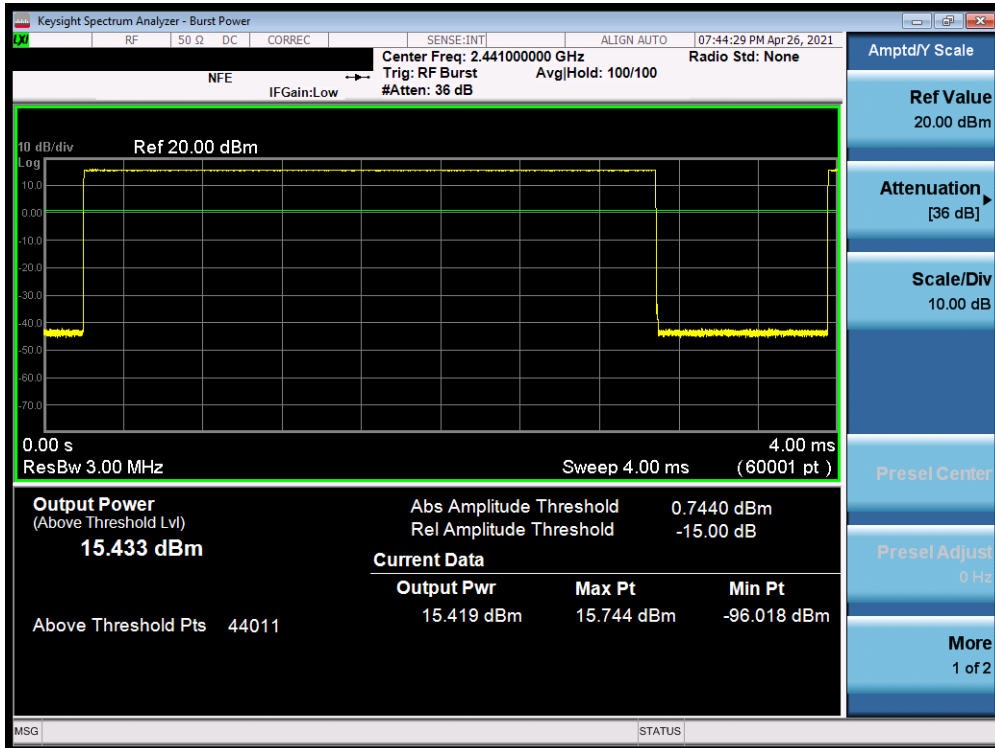


Plot 7-126. Peak Conducted Power (3Mbps, iPA – Ch. 78) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 80 of 233

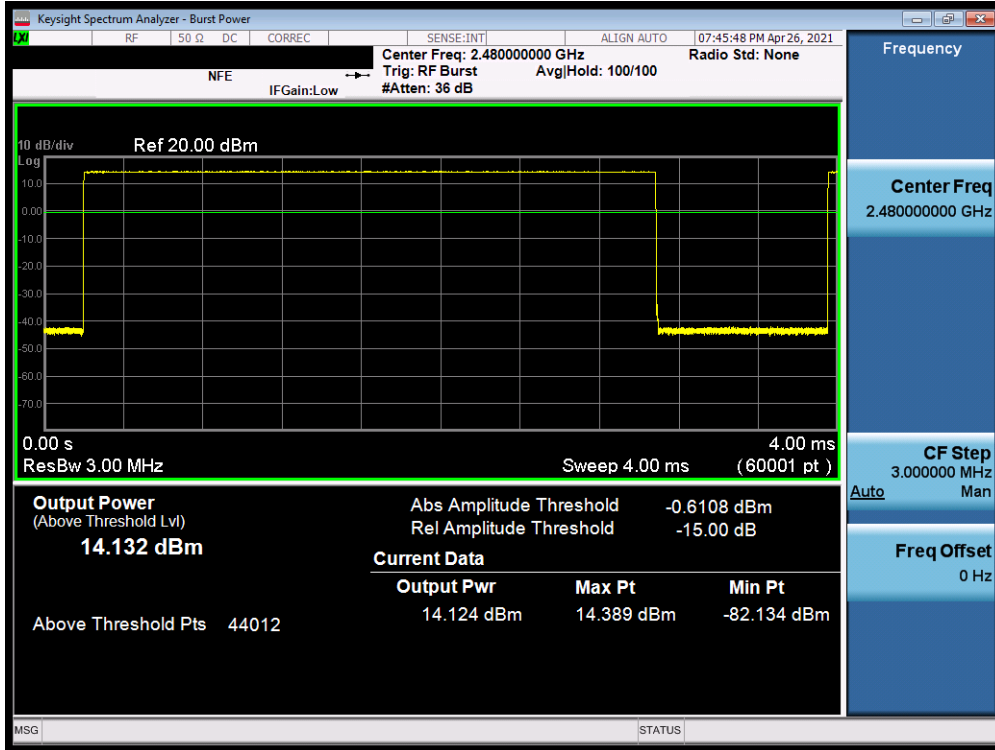


Plot 7-127. Average Conducted Power (1Mbps, ePA – Ch. 0) – ANT0 (Q)

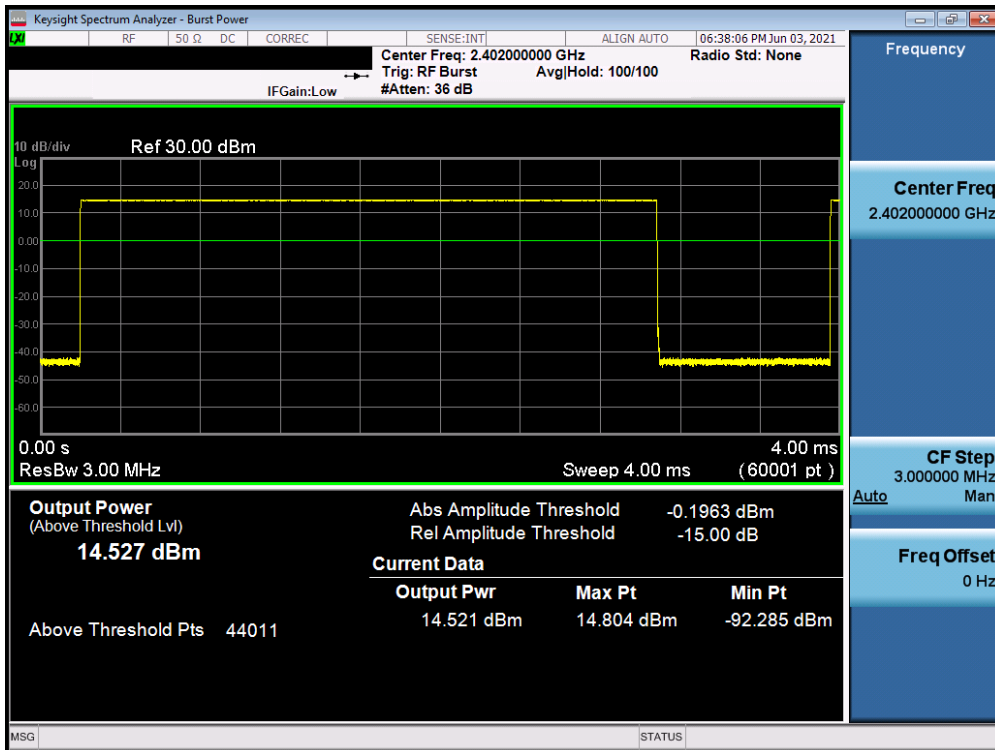


Plot 7-128. Average Conducted Power (1Mbps, ePA – Ch. 39) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 81 of 233

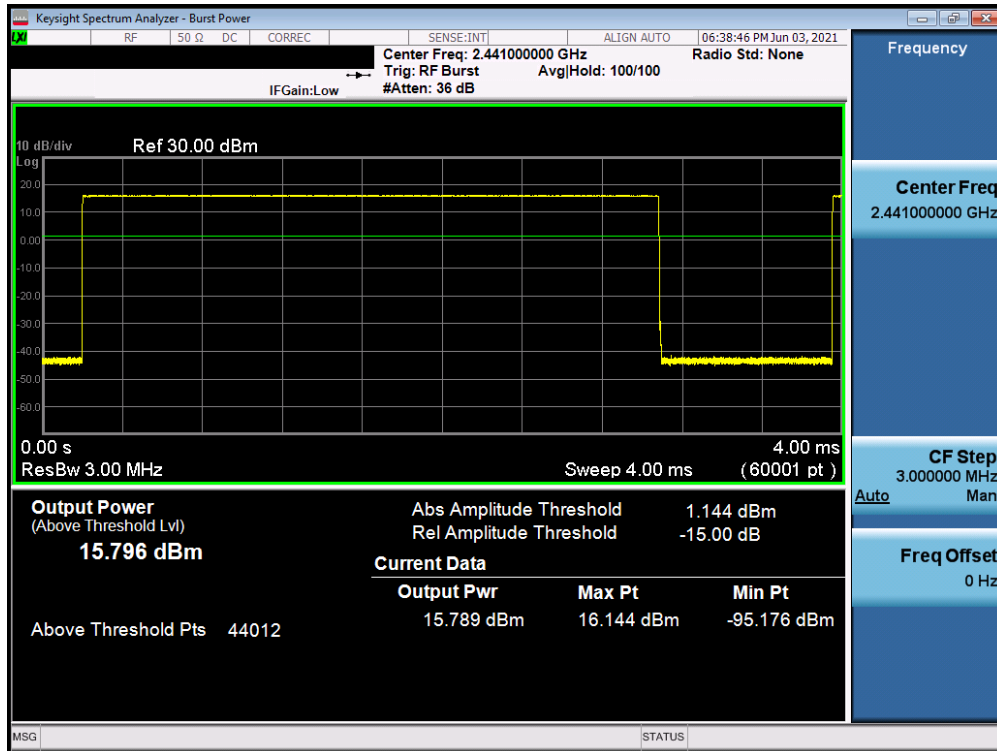


Plot 7-129. Average Conducted Power (1Mbps, ePA - Ch. 78) - ANT0 (Q)

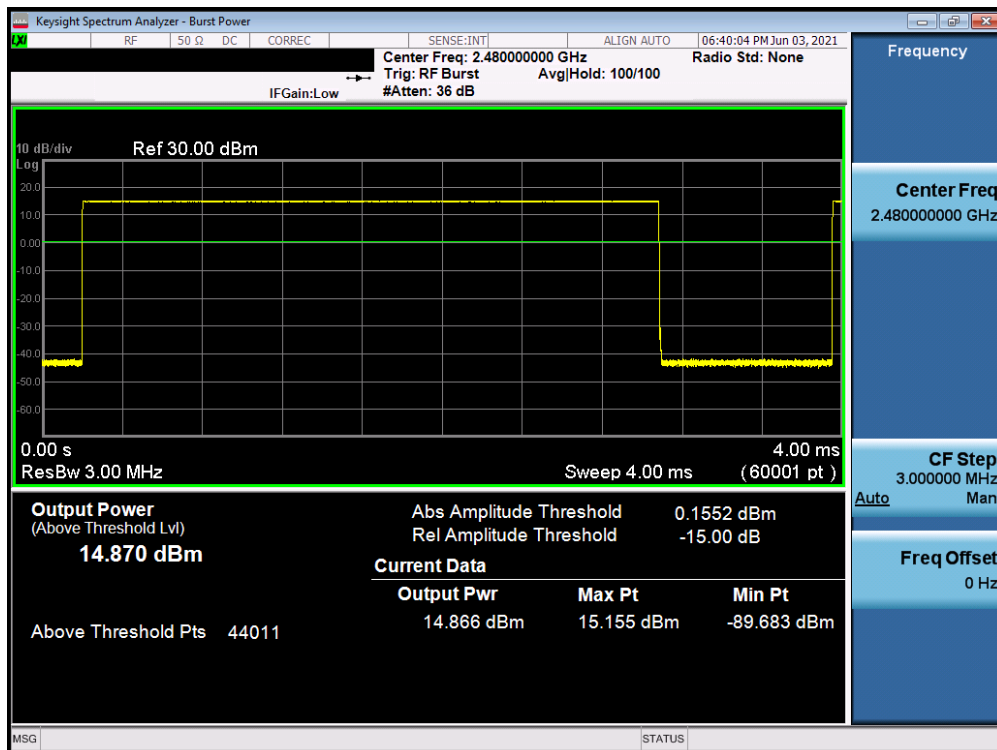


Plot 7-130. Average Conducted Power (1Mbps, iPA - Ch. 0) - ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 82 of 233

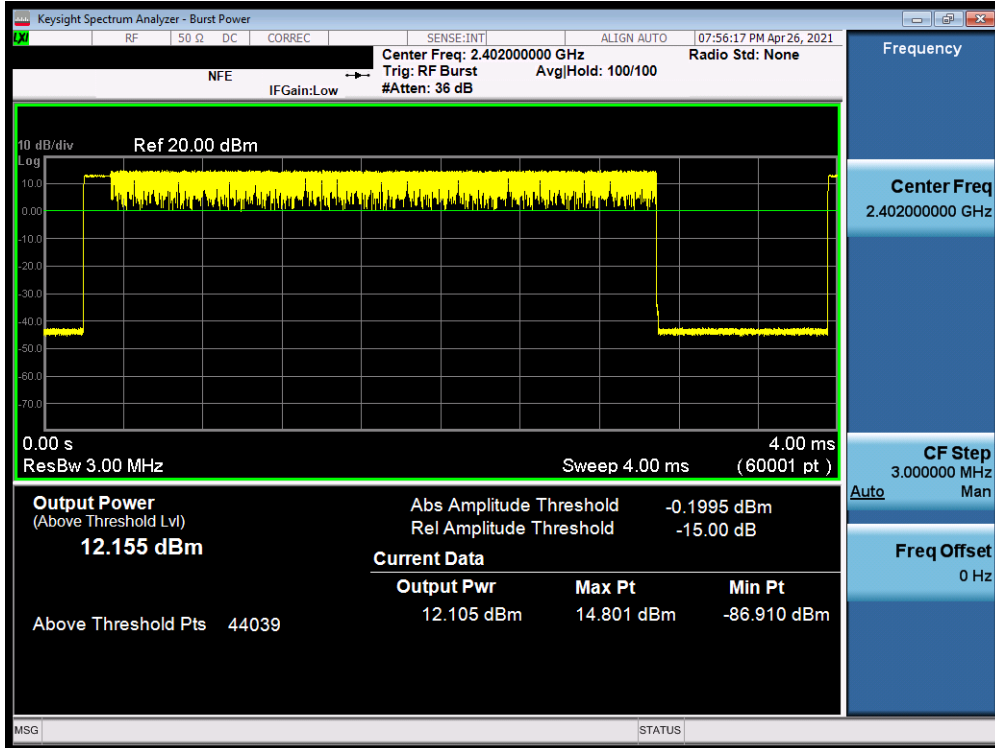


Plot 7-131. Average Conducted Power (1Mbps, iPA – Ch. 39) – ANT0 (Q)

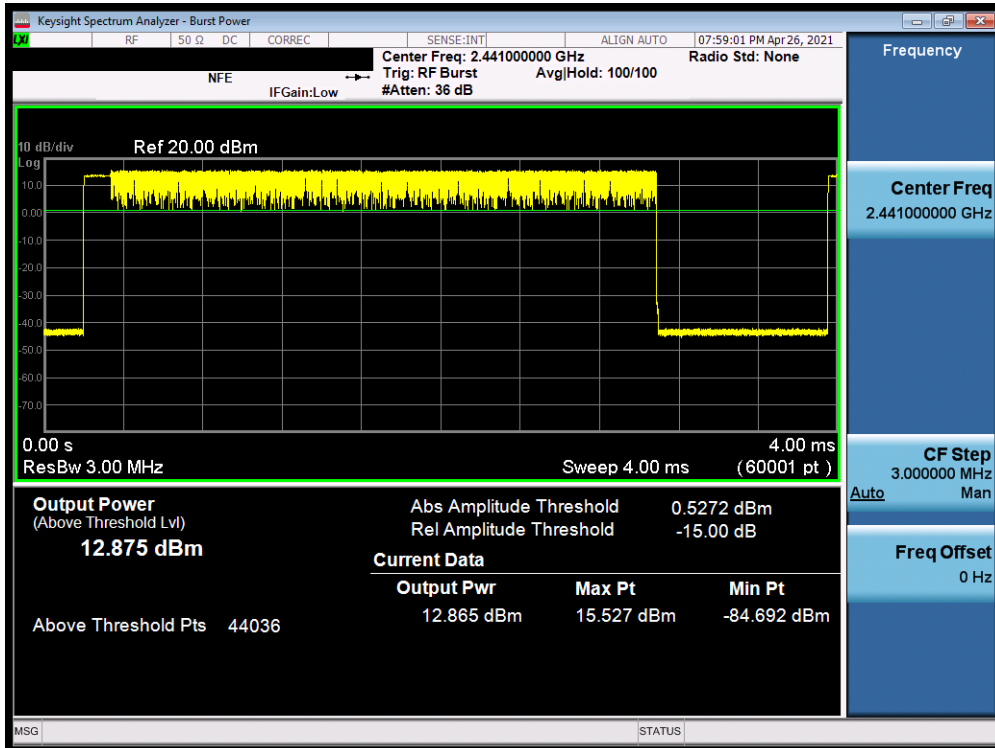


Plot 7-132. Average Conducted Power (1Mbps, iPA – Ch. 78) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 83 of 233



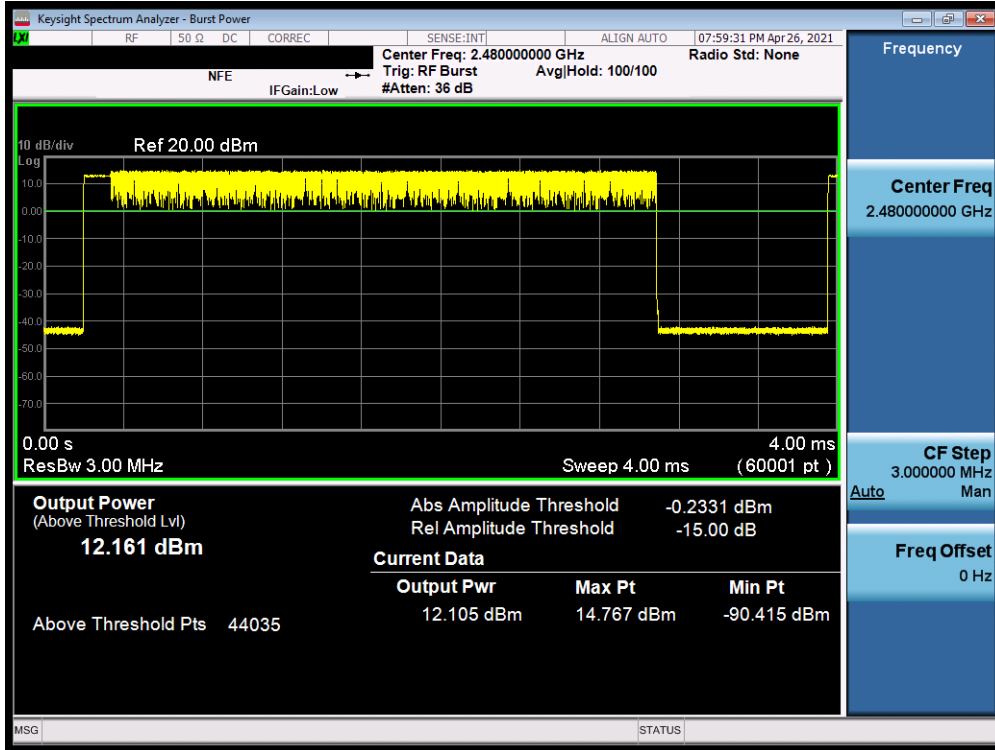
Plot 7-133. Average Conducted Power (2Mbps, ePA – Ch. 0) – ANT0 (Q)



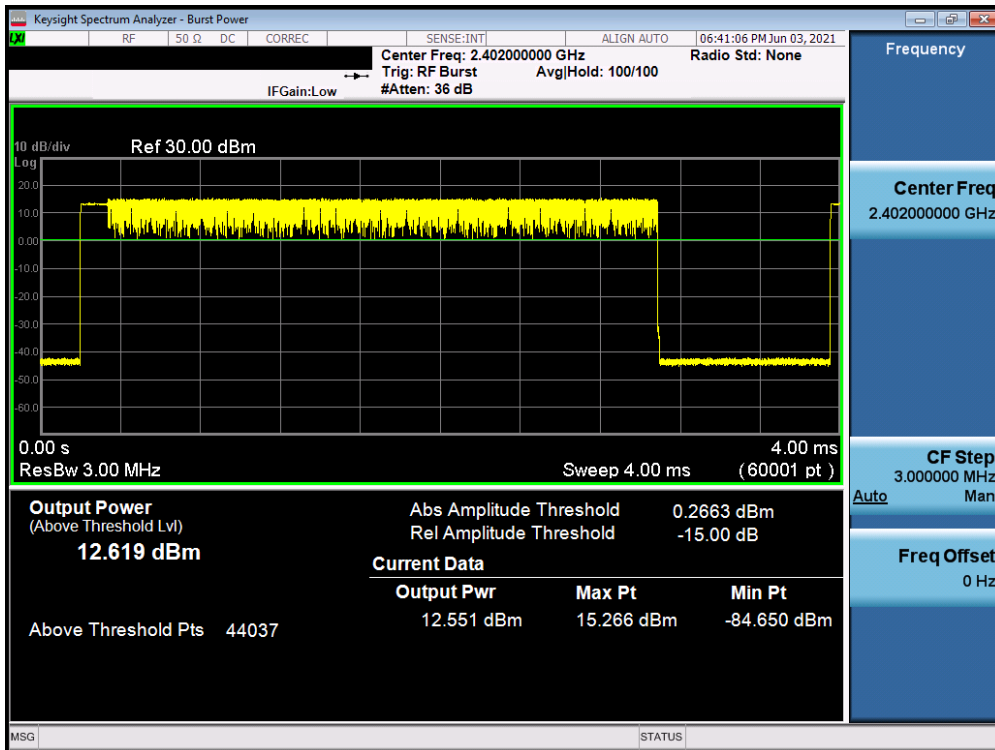
Plot 7-134. Average Conducted Power (2Mbps, ePA – Ch. 39) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 84 of 233



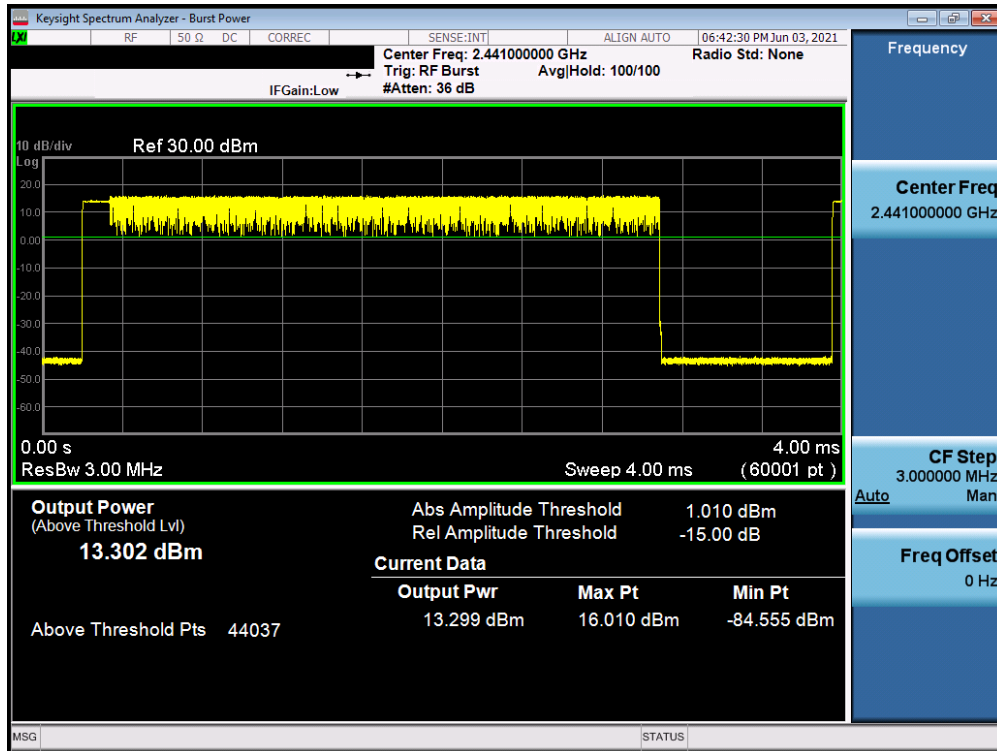


Plot 7-135. Average Conducted Power (2Mbps, ePA – Ch. 78) – ANT0 (Q)

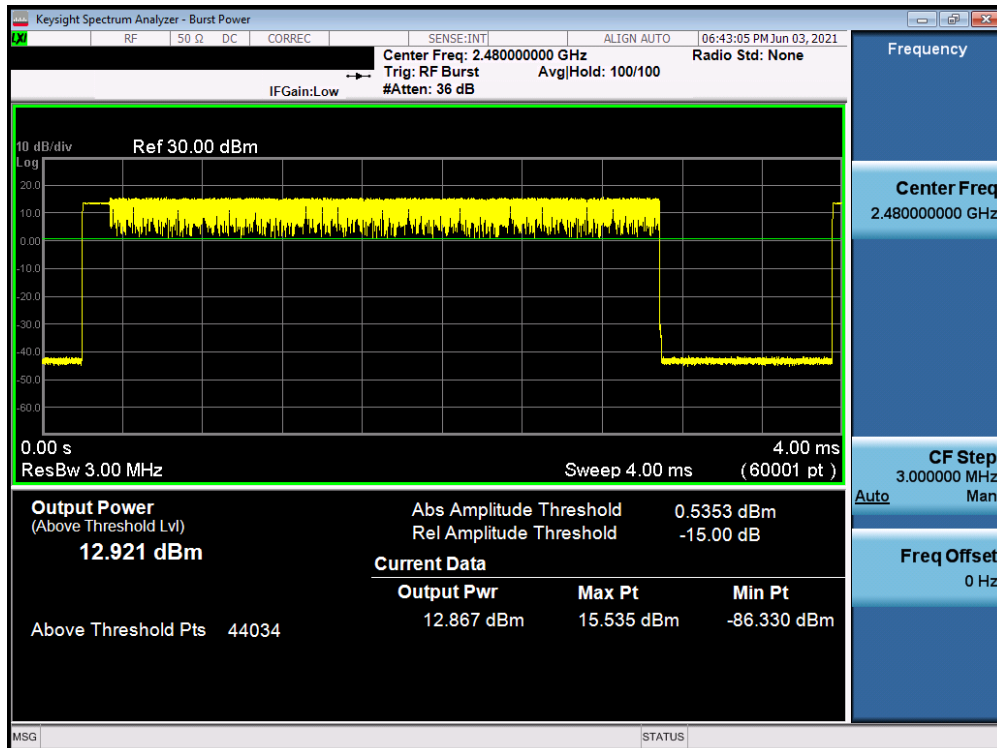


Plot 7-136. Average Conducted Power (2Mbps, iPA – Ch. 0) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 85 of 233

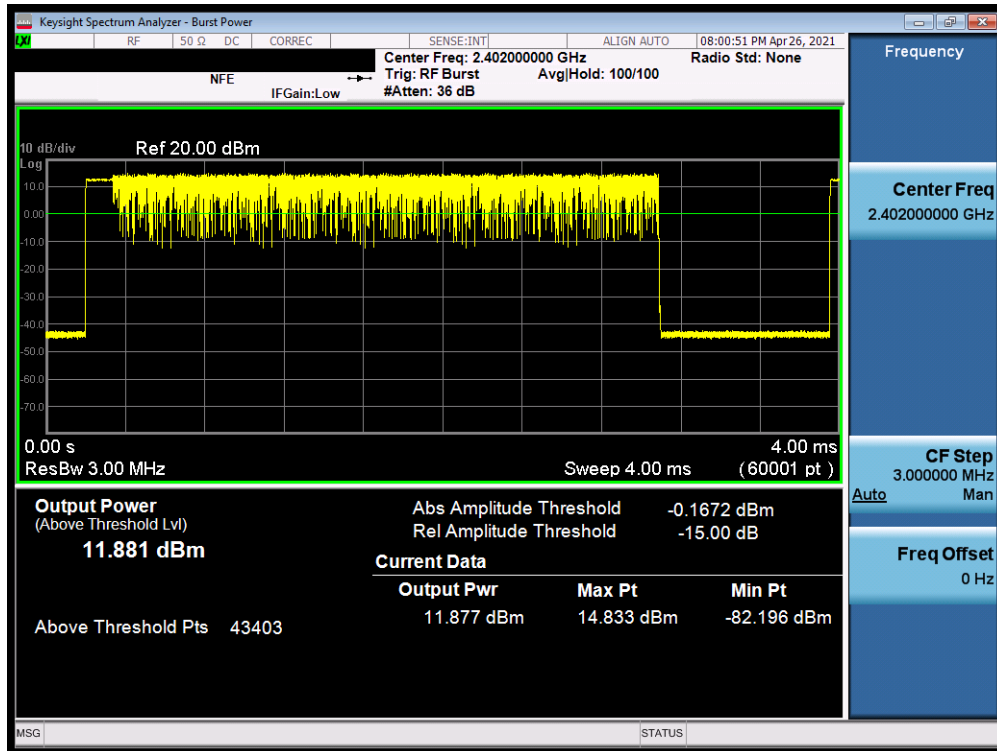


Plot 7-137. Average Conducted Power (2Mbps, iPA – Ch. 39) – ANT0 (Q)

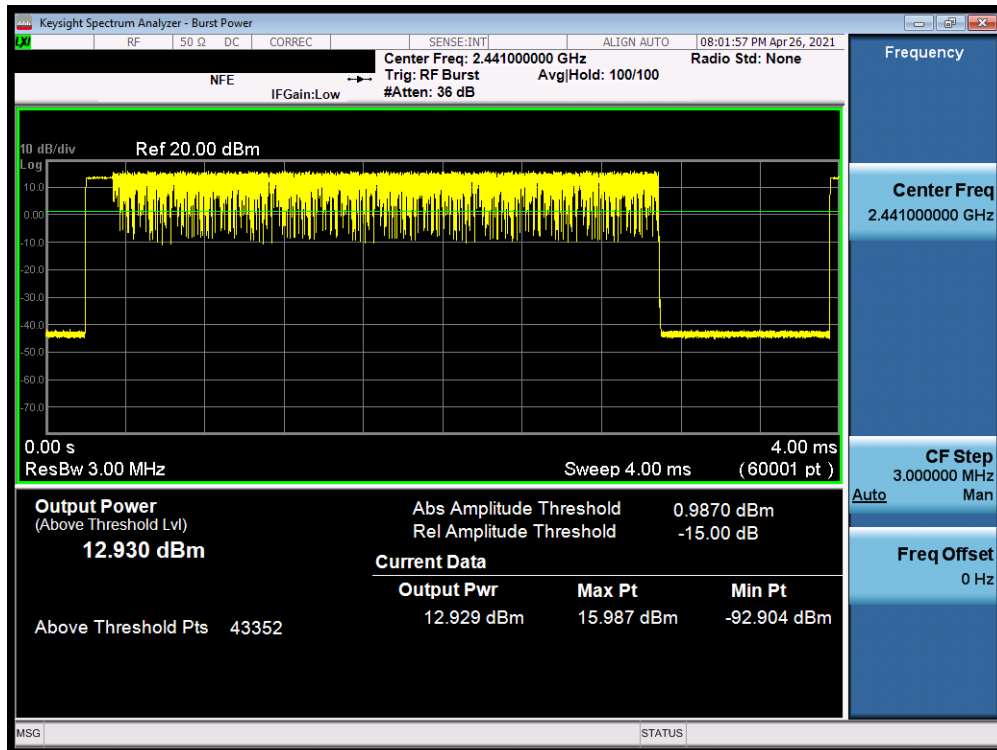


Plot 7-138. Average Conducted Power (2Mbps, iPA – Ch. 78) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 86 of 233

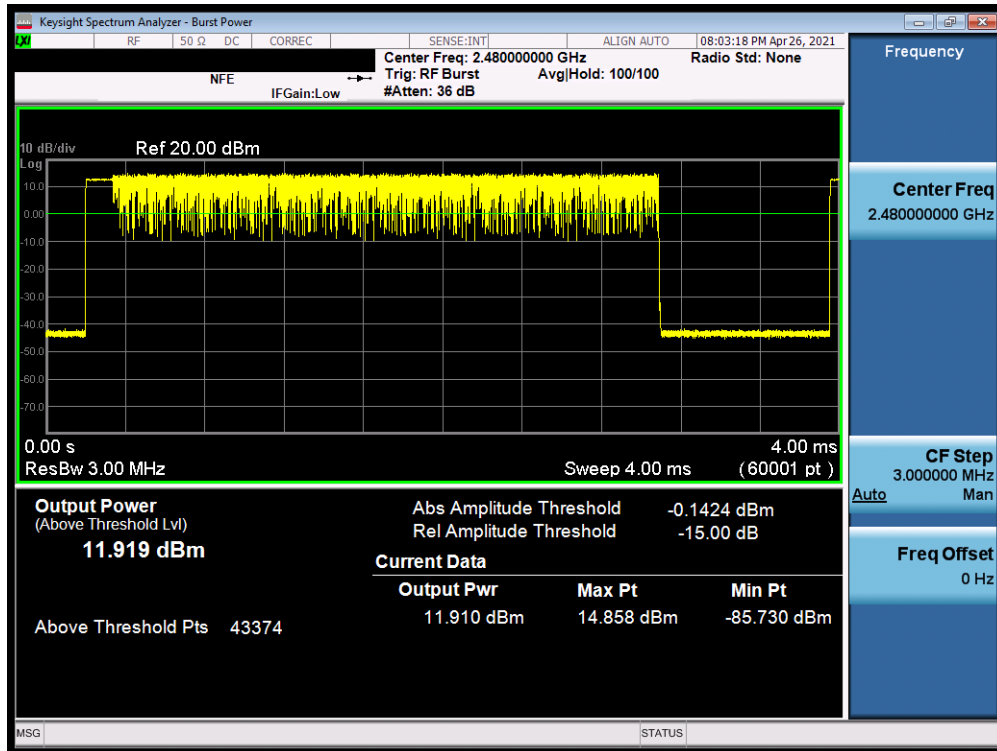


Plot 7-139. Average Conducted Power (3Mbps, ePA - Ch. 0) - ANT0 (Q)

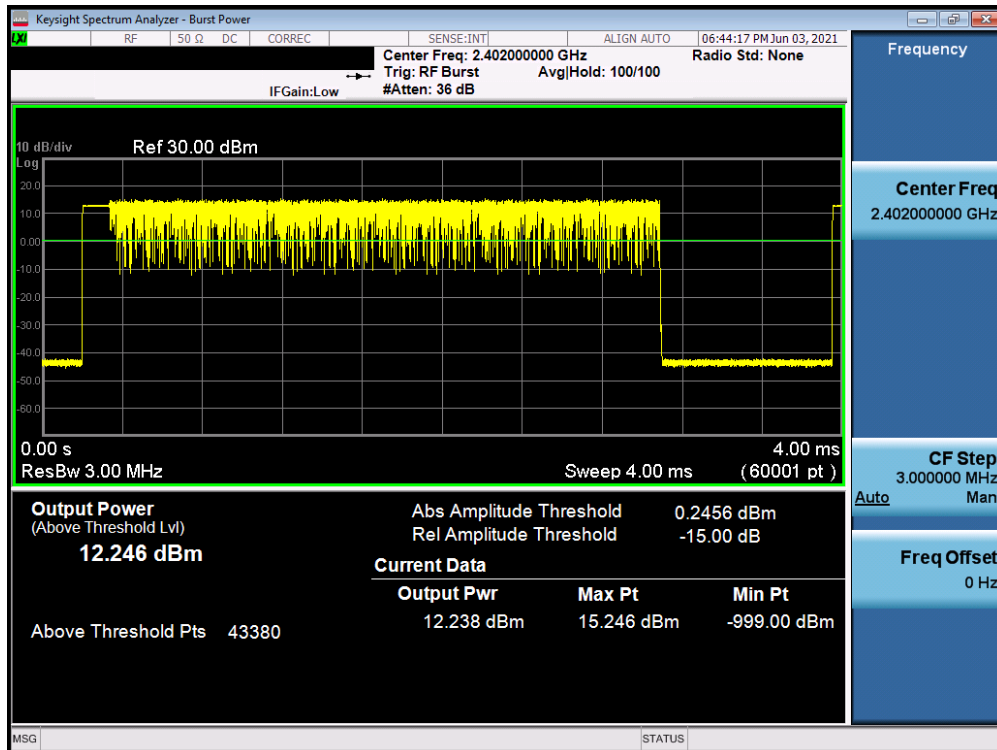


Plot 7-140. Average Conducted Power (3Mbps, ePA - Ch. 39) - ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 87 of 233

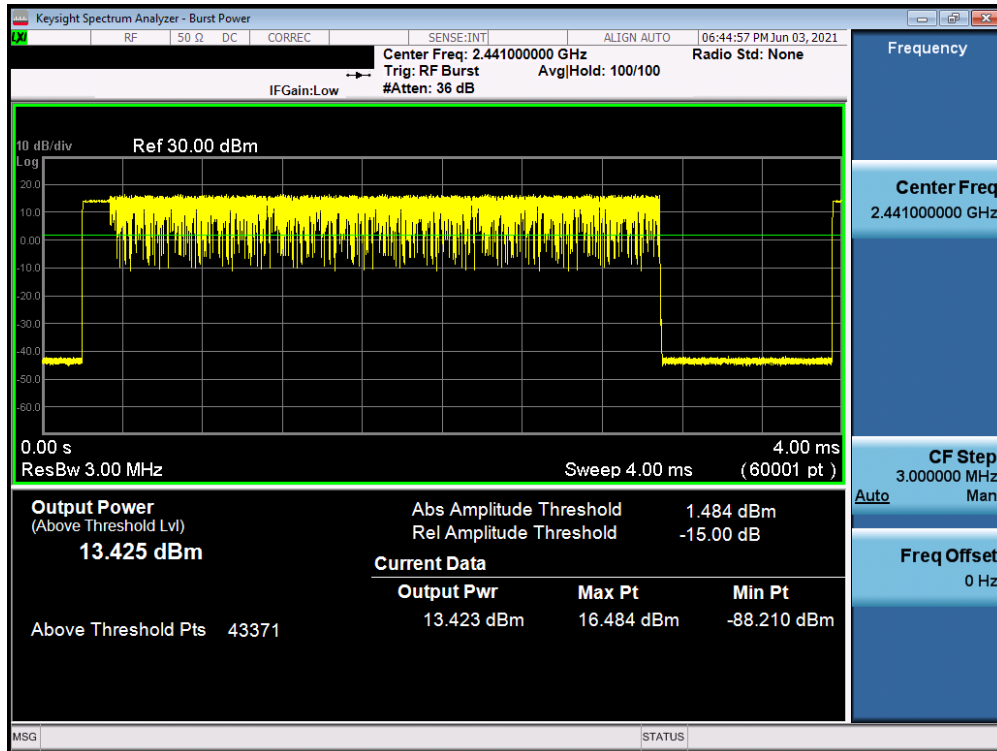


Plot 7-141. Average Conducted Power (3Mbps, ePA – Ch. 78) – ANT0 (Q)

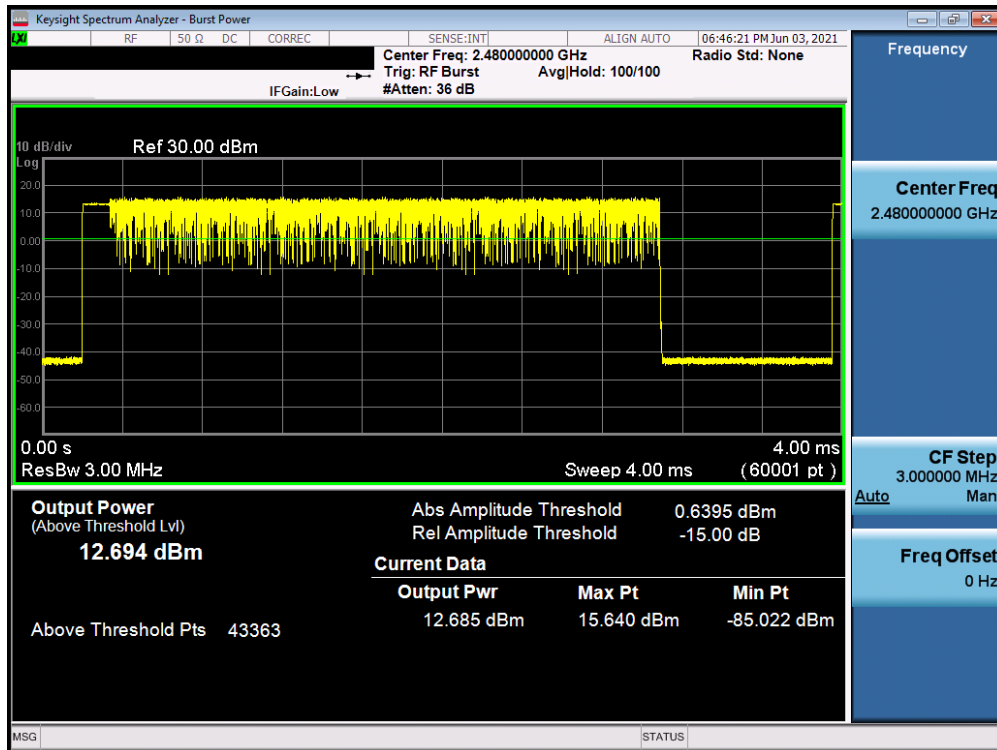


Plot 7-142. Average Conducted Power (3Mbps, iPA – Ch. 0) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 88 of 233



Plot 7-143. Average Conducted Power (3Mbps, iPA – Ch. 39) – ANT0 (Q)



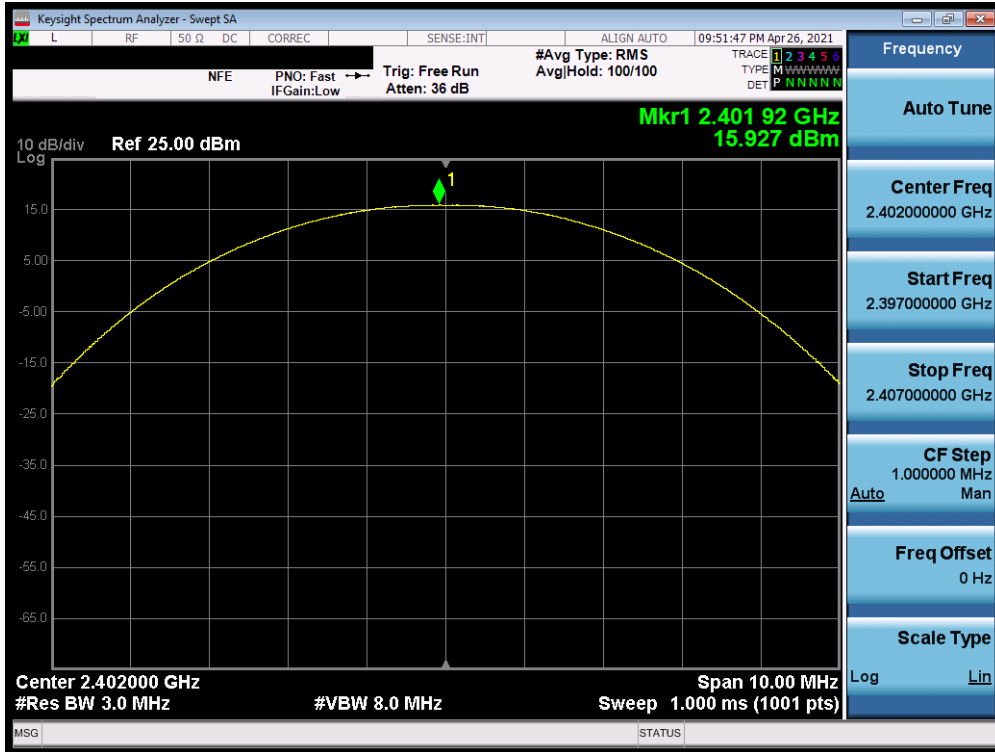
Plot 7-144. Average Conducted Power (3Mbps, iPA – Ch. 78) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 89 of 233

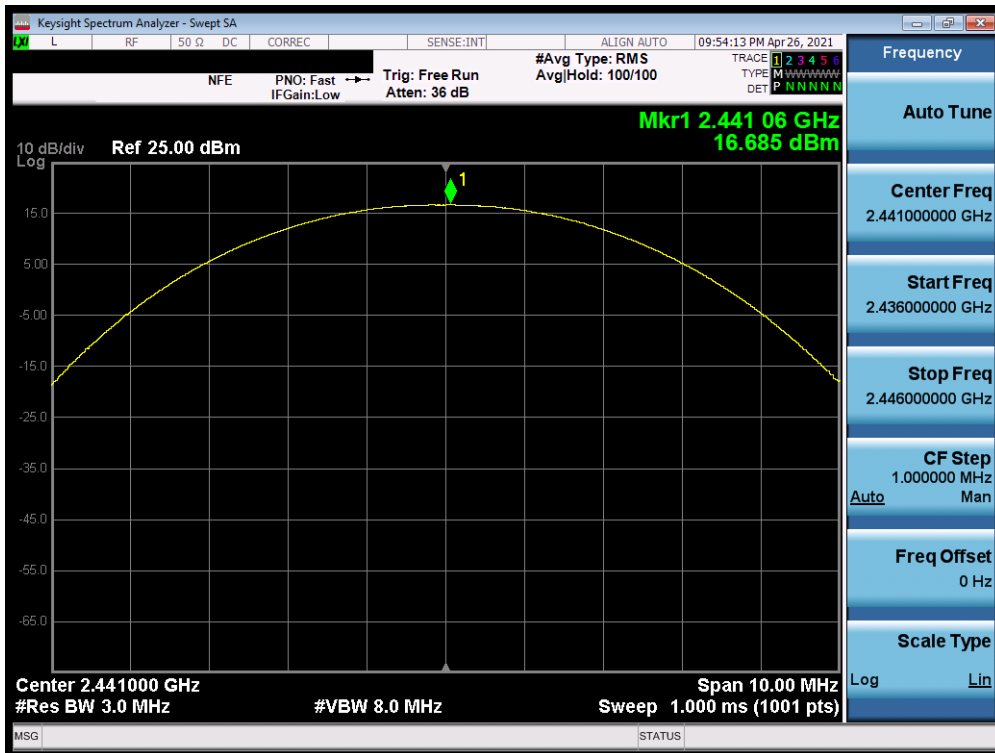
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Peak Conducted Power		Avg Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]
2402	1.0	ePA	0	15.93	39.174	15.26	33.574
2441	1.0	ePA	39	16.69	46.666	16.55	45.186
2480	1.0	ePA	78	16.90	48.978	16.60	45.709
2402	1.0	iPA	0	15.75	37.584	15.63	36.559
2441	1.0	iPA	39	16.06	40.365	15.54	35.810
2480	1.0	iPA	78	16.23	41.976	16.12	40.926
2402	2.0	ePA	0	15.52	35.645	13.13	20.559
2441	2.0	ePA	39	16.79	47.753	14.15	26.002
2480	2.0	ePA	78	16.87	48.641	13.28	21.281
2402	2.0	iPA	0	15.97	39.537	13.19	20.845
2441	2.0	iPA	39	15.79	37.931	13.29	21.330
2480	2.0	iPA	78	16.47	44.361	13.72	23.550
2402	3.0	ePA	0	16.35	43.152	13.06	20.230
2441	3.0	ePA	39	17.09	51.168	13.48	22.284
2480	3.0	ePA	78	17.59	57.412	14.48	28.054
2402	3.0	iPA	0	16.22	41.879	13.24	21.086
2441	3.0	iPA	39	16.60	45.709	13.26	21.184
2480	3.0	iPA	78	16.73	47.098	12.99	19.907

**Table 7-6. Conducted Output Power Measurements – ANT1 (N)**

FCC ID: A3LSMF711B	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 90 of 233

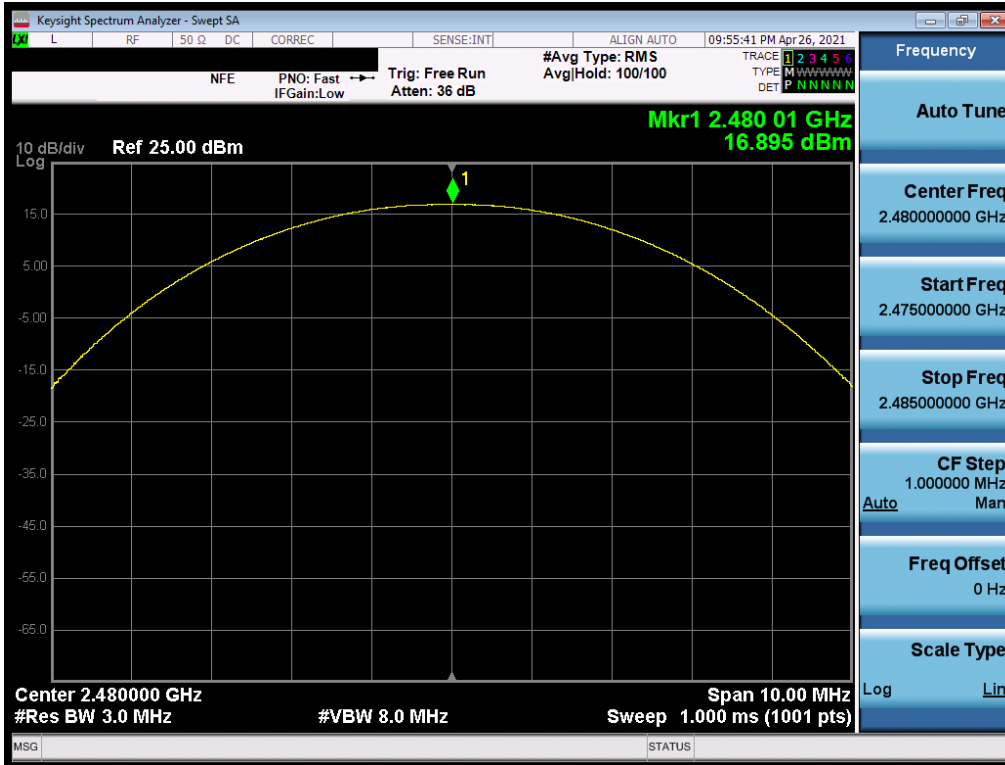


Plot 7-145. Peak Conducted Power (1Mbps, ePA – Ch. 0) – ANT1 (N)

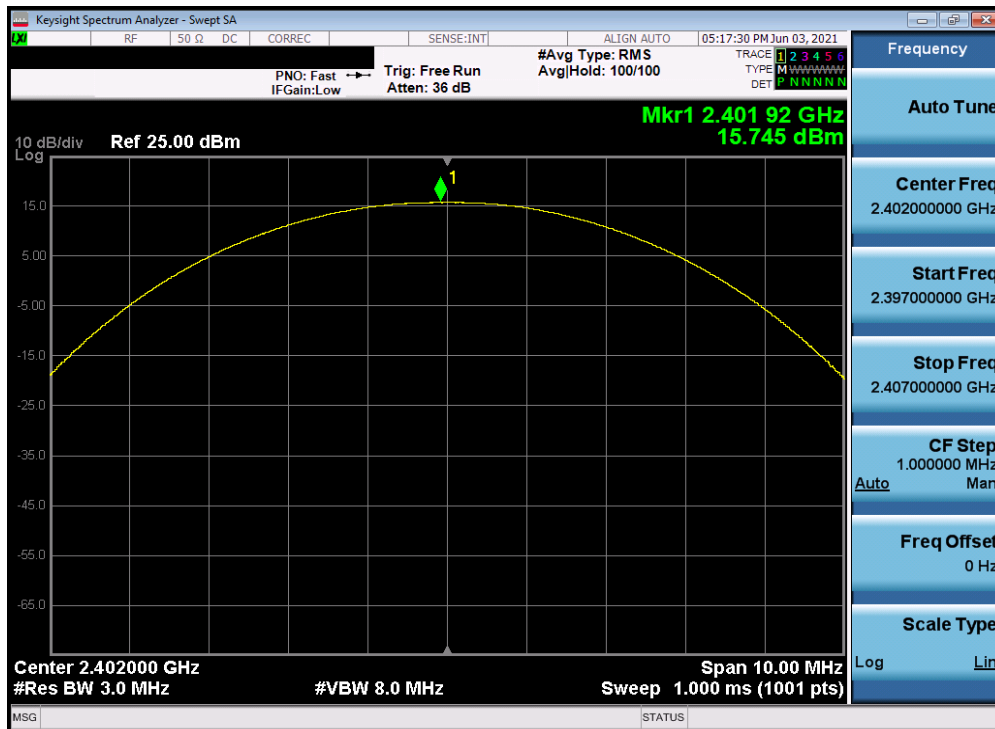


Plot 7-146. Peak Conducted Power (1Mbps, ePA – Ch. 39) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 91 of 233



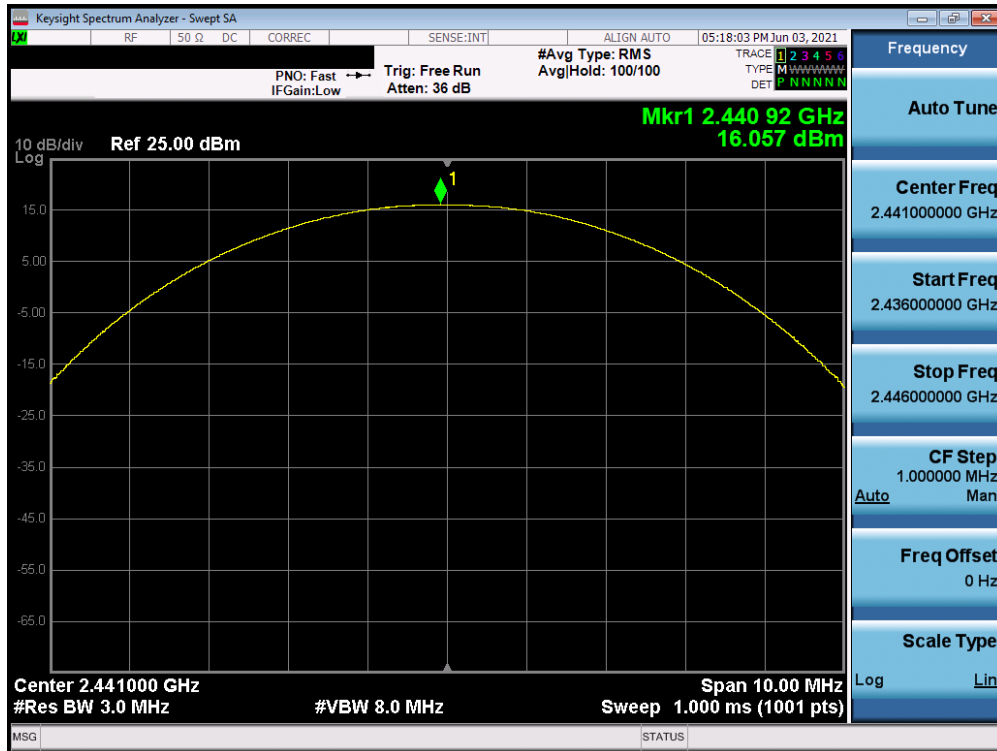
Plot 7-147. Peak Conducted Power (1Mbps, ePA – Ch. 78) – ANT1 (N)



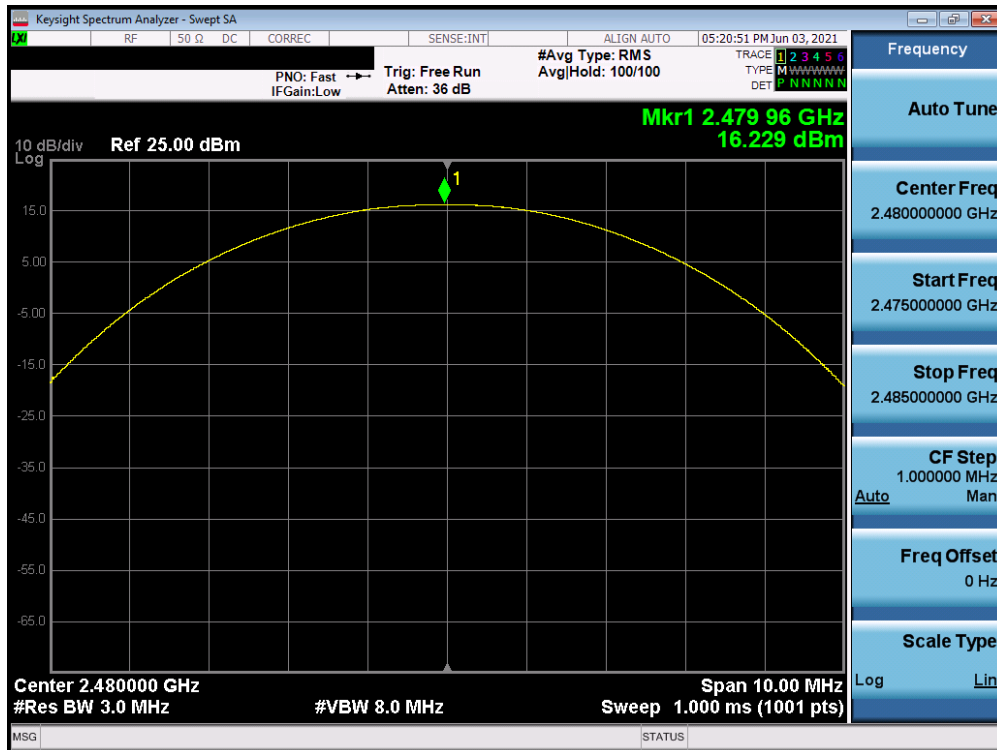
Plot 7-148. Peak Conducted Power (1Mbps, iPA – Ch. 0) – ANT1 (N)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 92 of 233



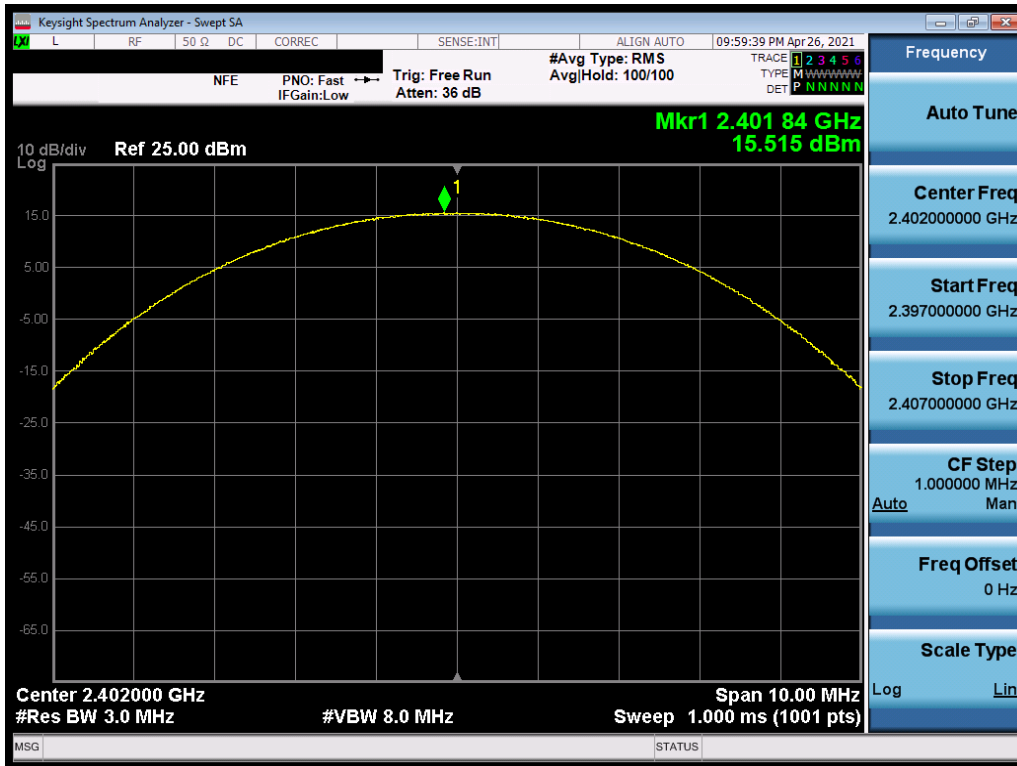


Plot 7-149. Peak Conducted Power (1Mbps, iPA – Ch. 39) – ANT1 (N)

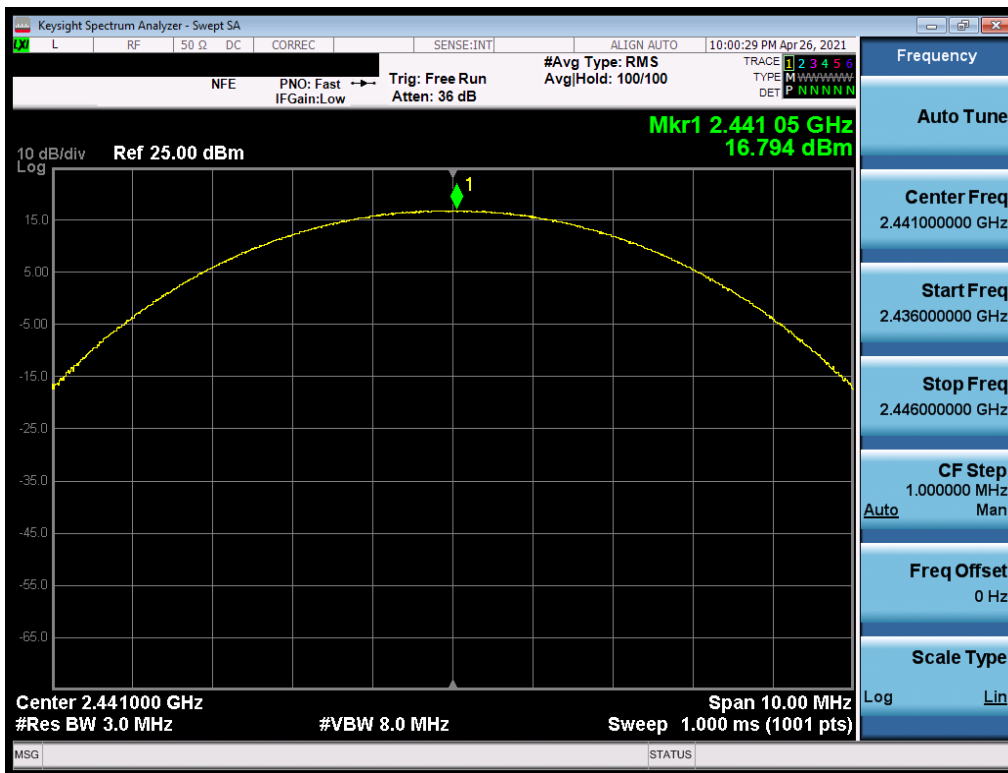


Plot 7-150. Peak Conducted Power (1Mbps, iPA – Ch. 78) – ANT1 (N)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 93 of 233

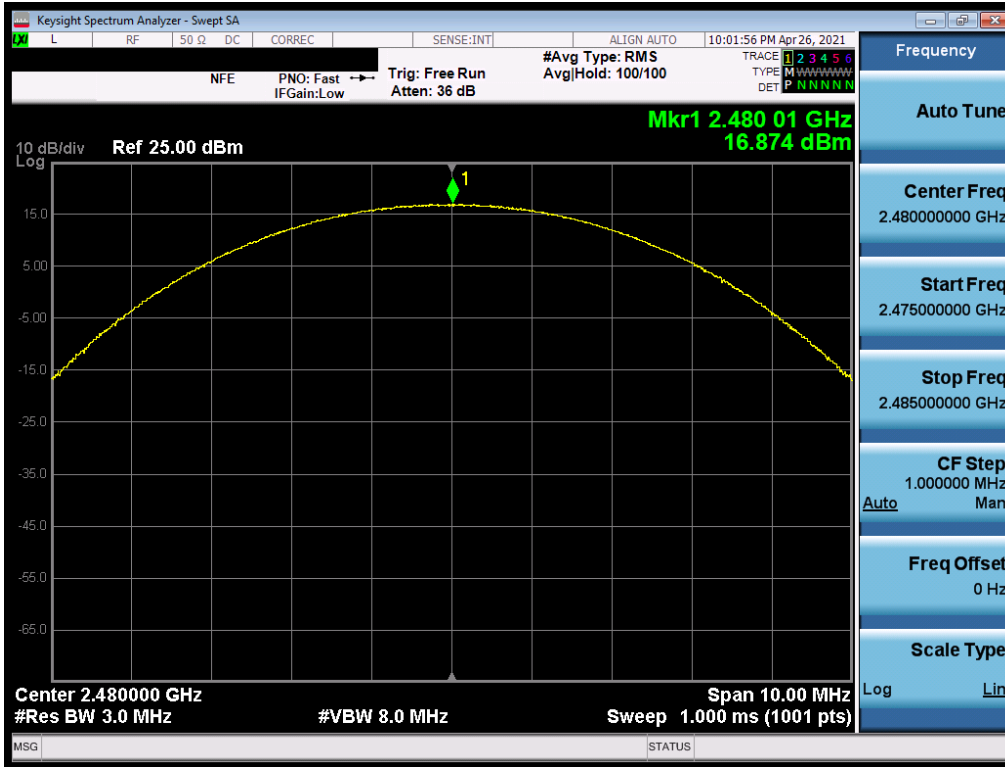


Plot 7-151. Peak Conducted Power (2Mbps, ePA – Ch. 0) – ANT1 (N)

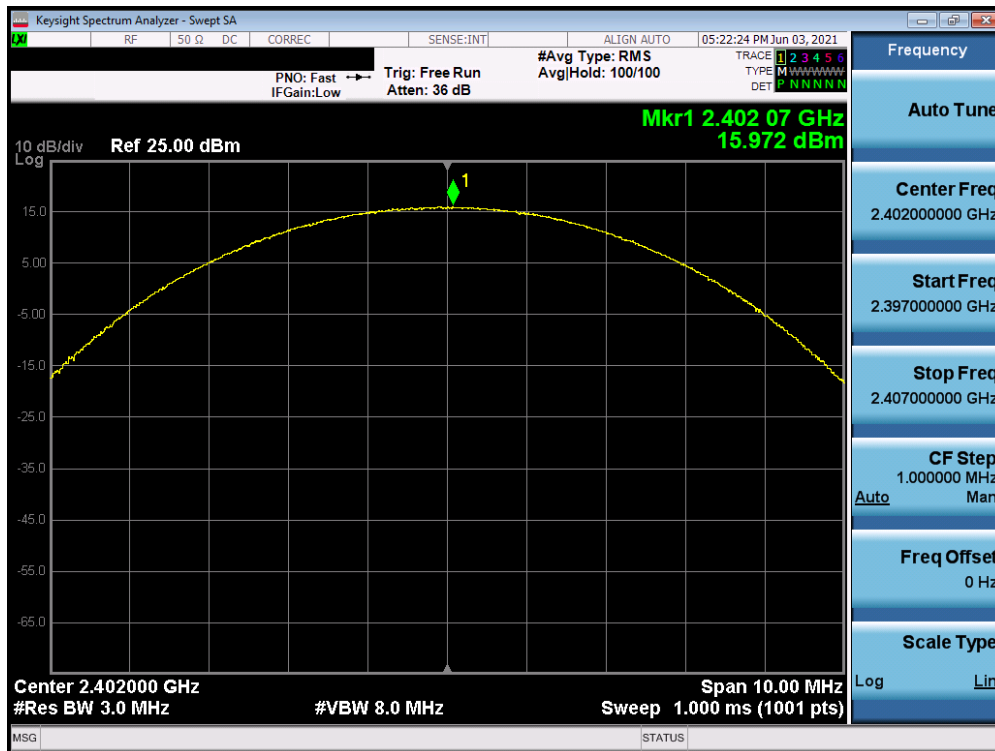


Plot 7-152. Peak Conducted Power (2Mbps, ePA – Ch. 39) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 94 of 233

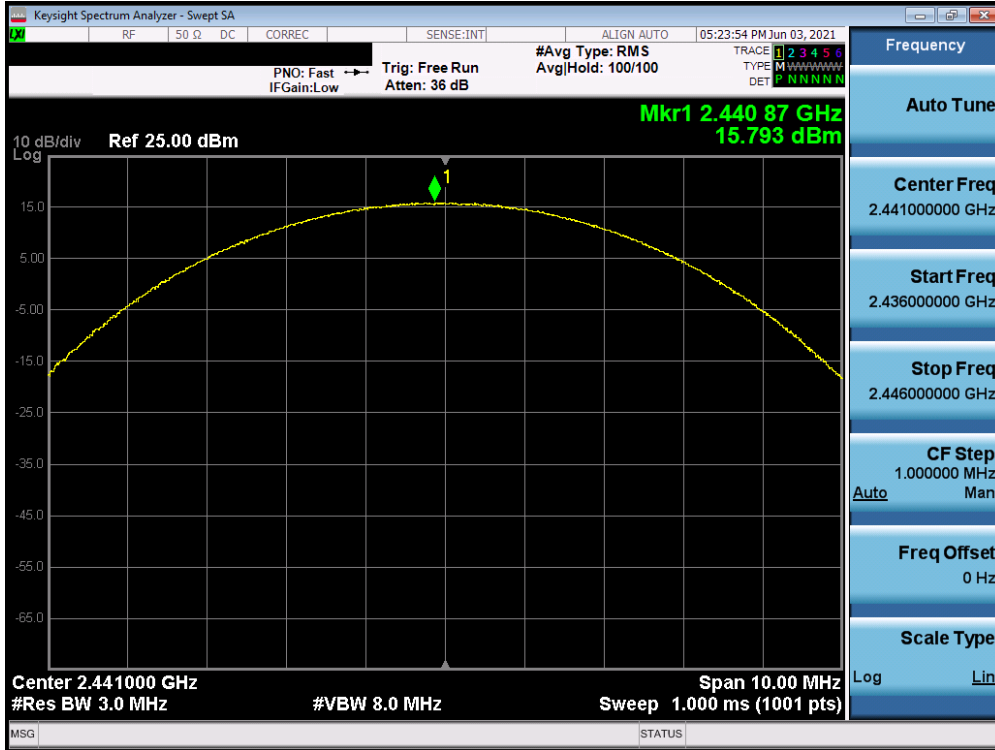


Plot 7-153. Peak Conducted Power (2Mbps, ePA – Ch. 78) – ANT1 (N)

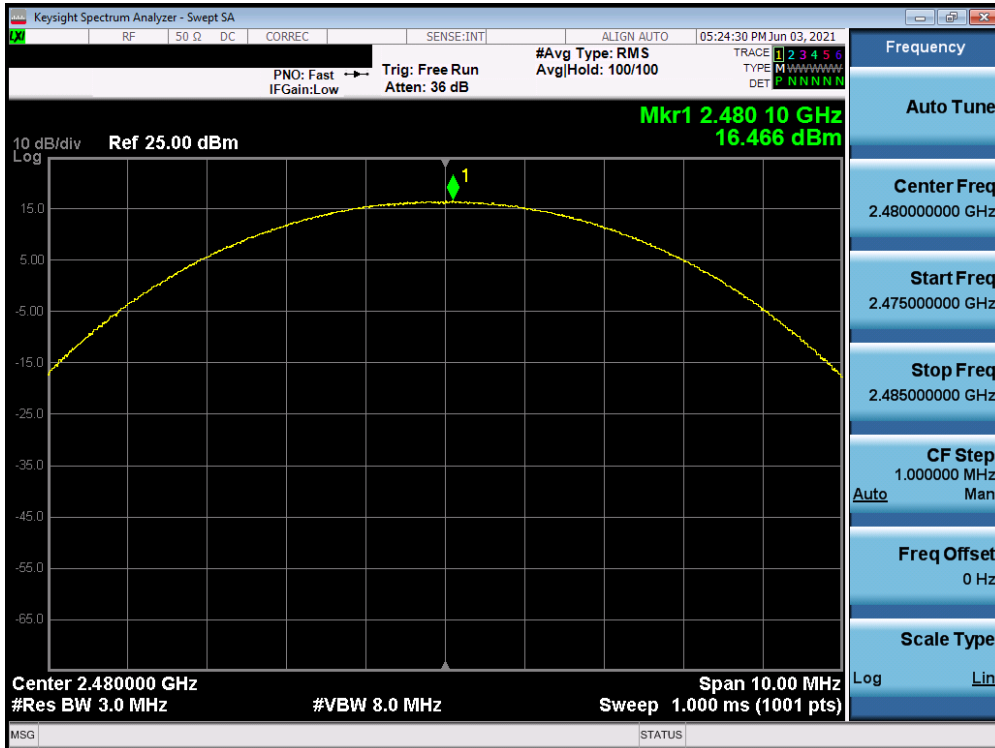


Plot 7-154. Peak Conducted Power (2Mbps, iPA – Ch. 0) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 95 of 233

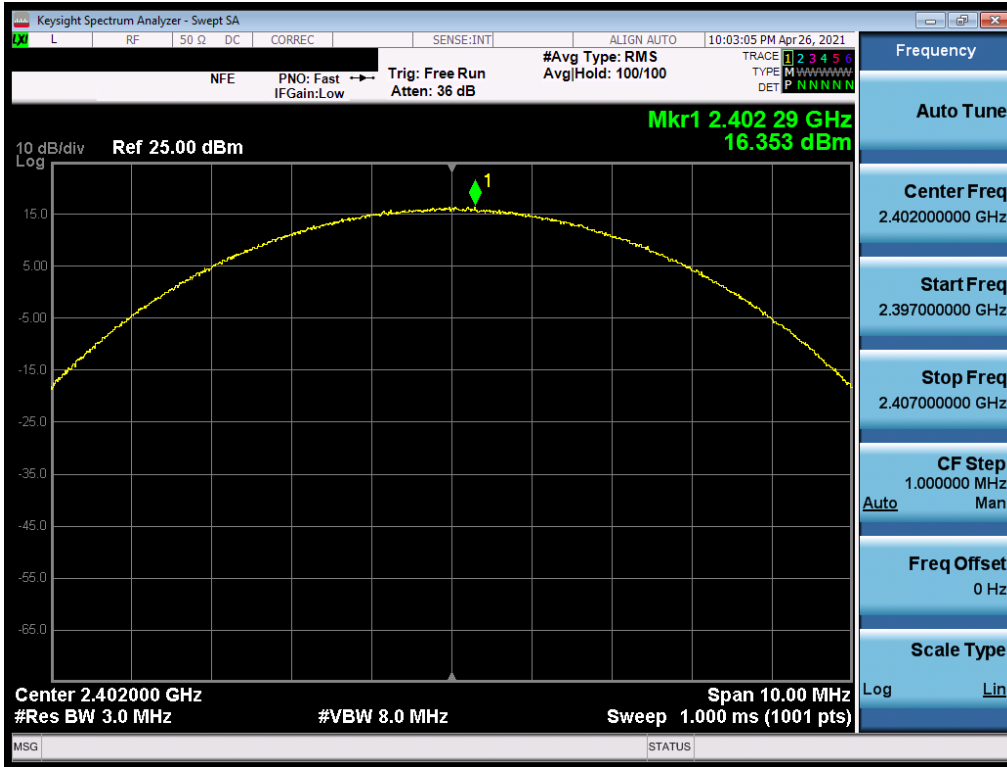


Plot 7-155. Peak Conducted Power (2Mbps, iPA – Ch. 39) – ANT1 (N)

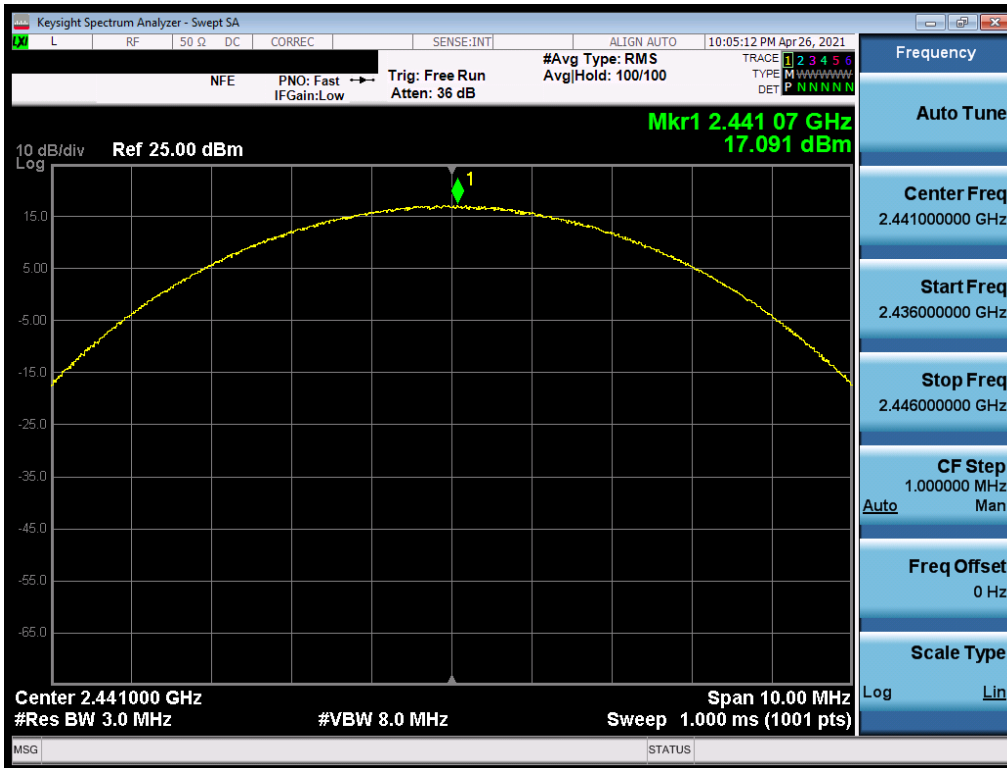


Plot 7-156. Peak Conducted Power (2Mbps, iPA – Ch. 78) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 96 of 233

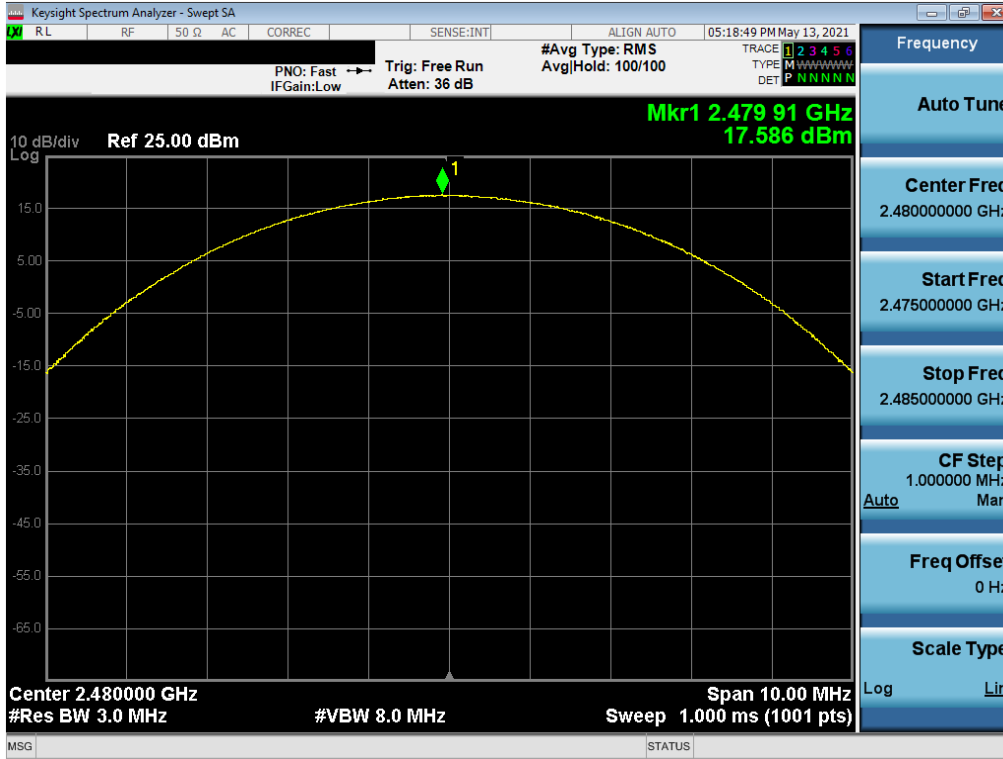


Plot 7-157. Peak Conducted Power (3Mbps, ePA – Ch. 0) – ANT1 (N)

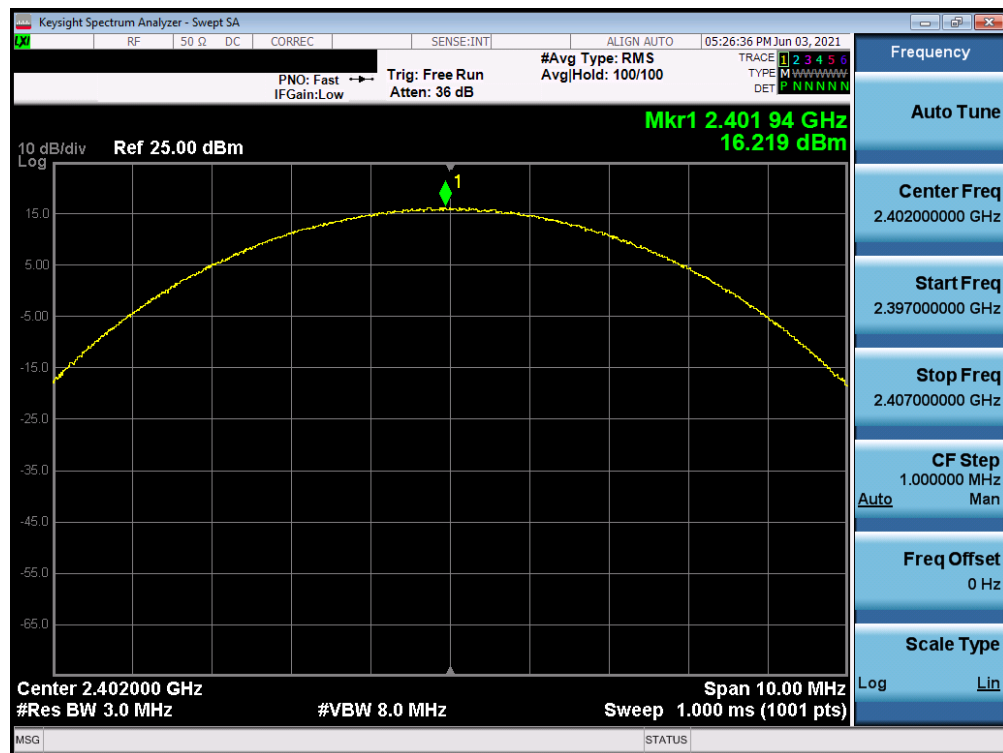


Plot 7-158. Peak Conducted Power (3Mbps, ePA – Ch. 39) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 97 of 233

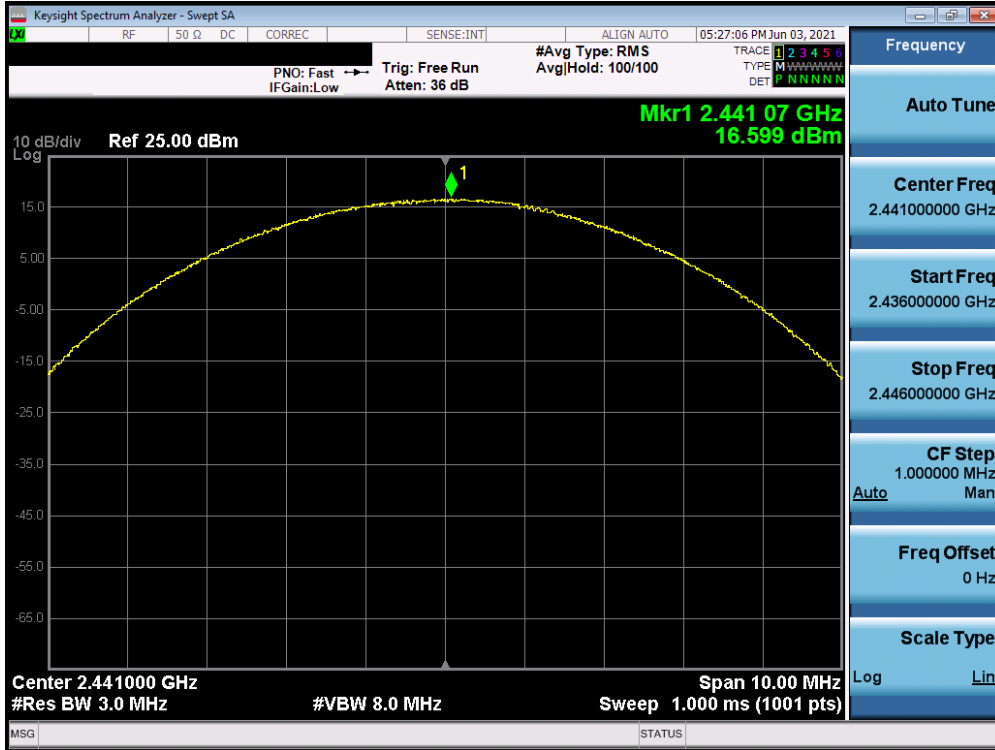


Plot 7-159. Peak Conducted Power (3Mbps, ePA – Ch. 78) – ANT1 (N)

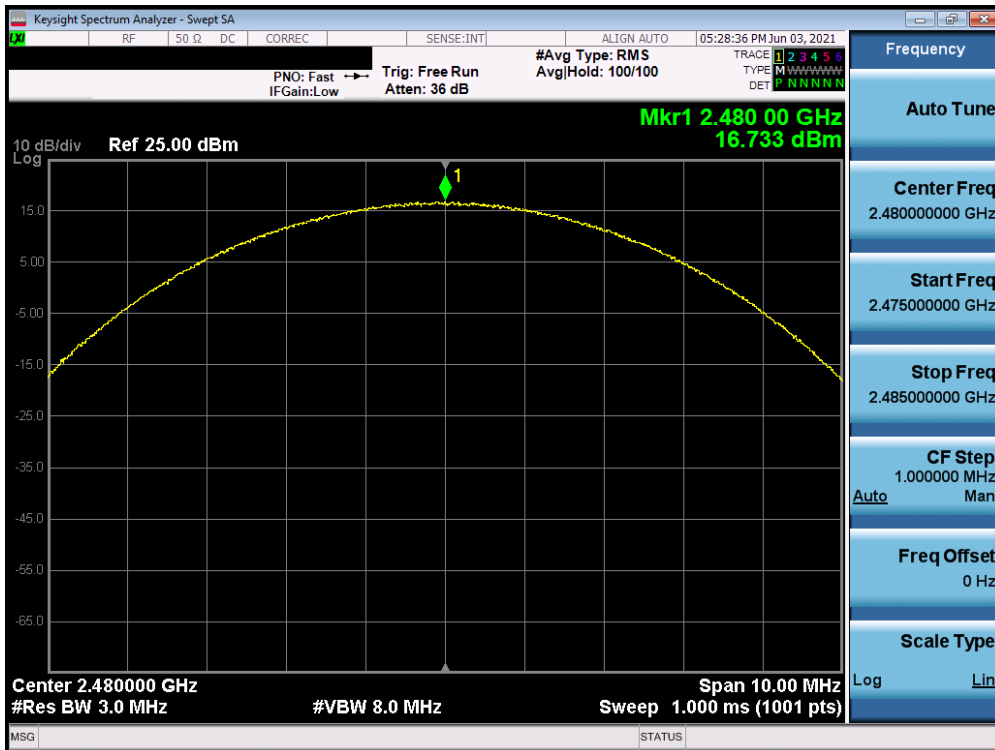


Plot 7-160. Peak Conducted Power (3Mbps, iPA – Ch. 0) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 98 of 233

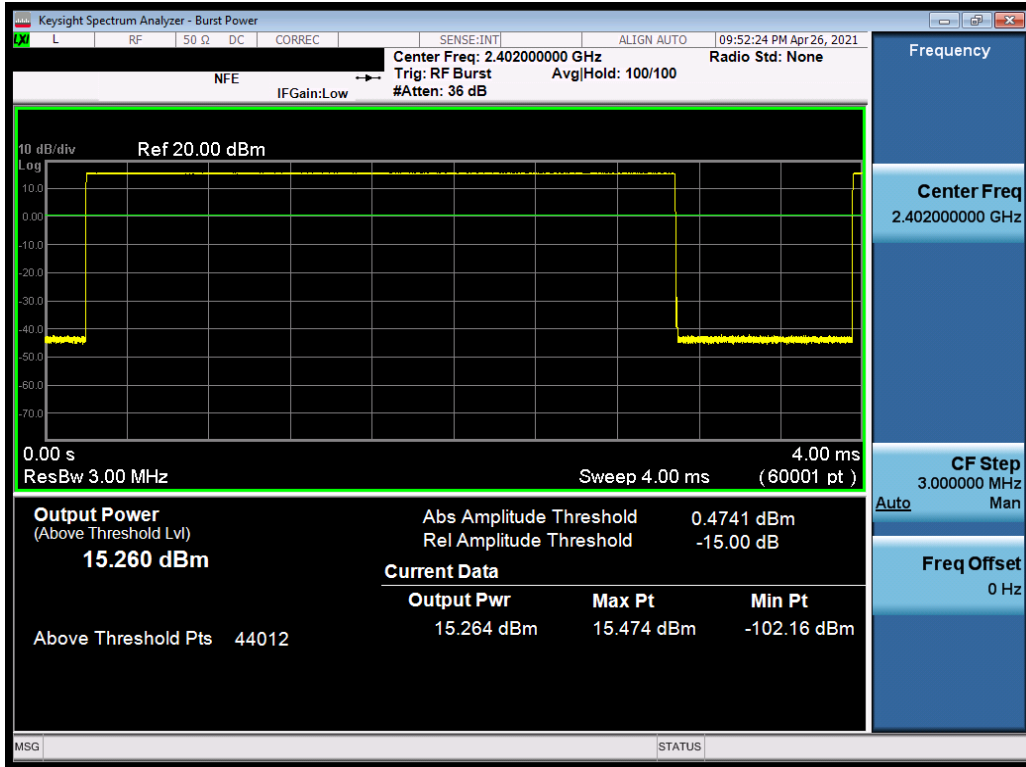


Plot 7-161. Peak Conducted Power (3Mbps, iPA – Ch. 39) – ANT1 (N)

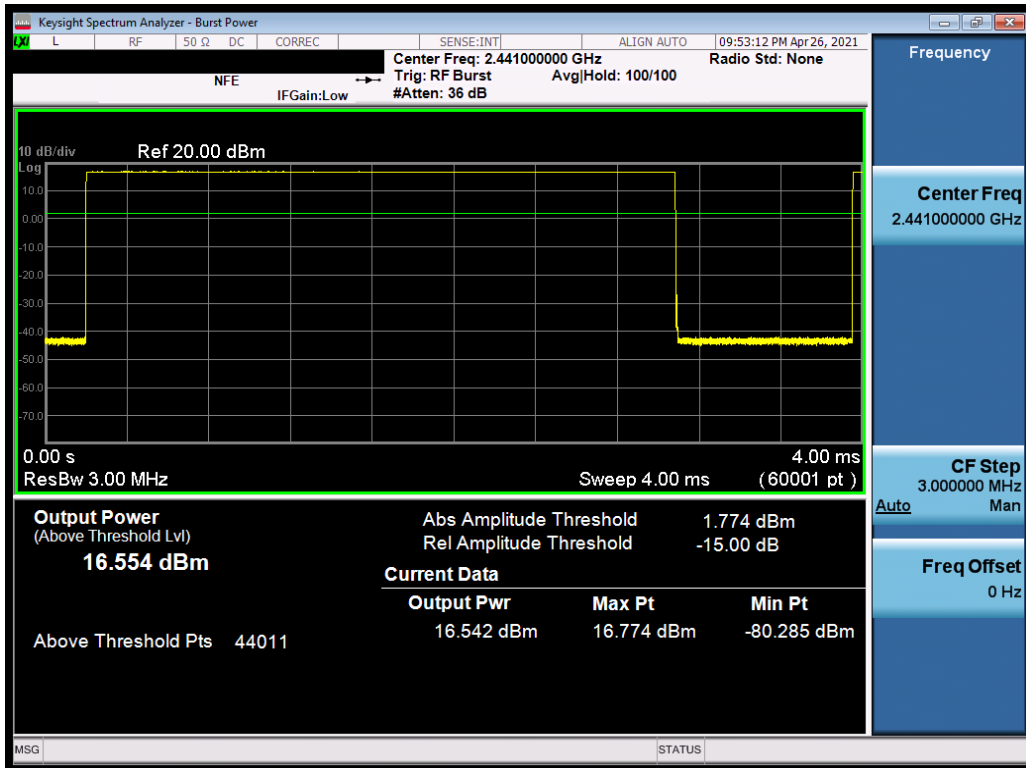


Plot 7-162. Peak Conducted Power (3Mbps, iPA – Ch. 78) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 99 of 233



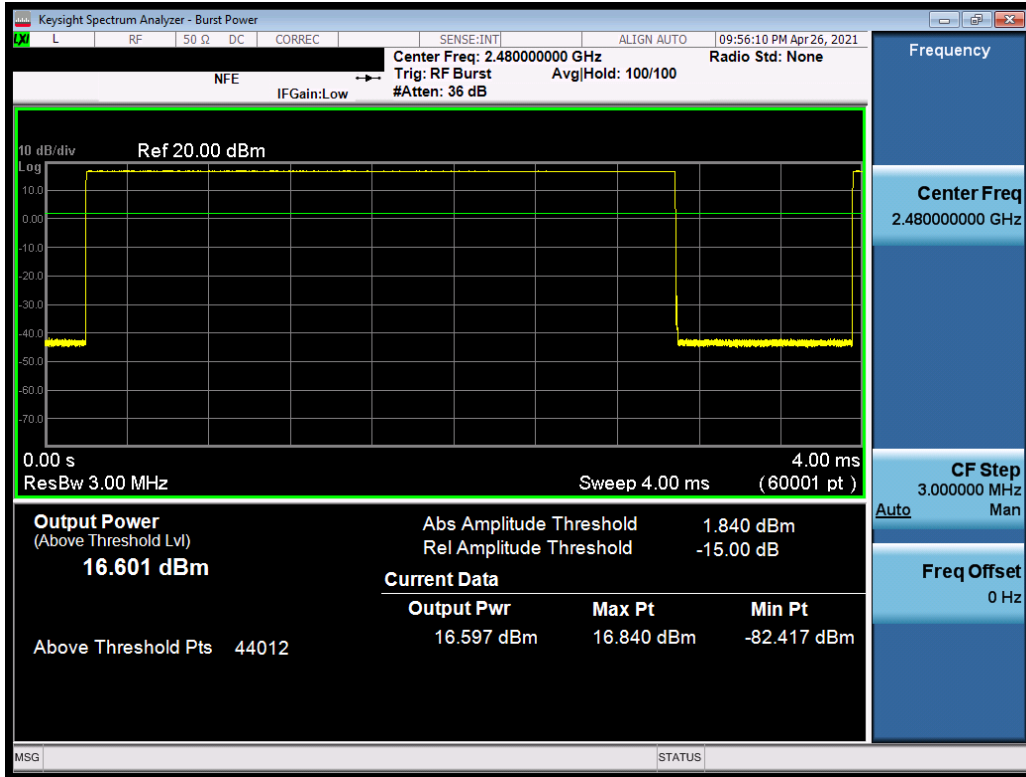
Plot 7-163. Average Conducted Power (1Mbps, ePA – Ch. 0) – ANT1 (N)



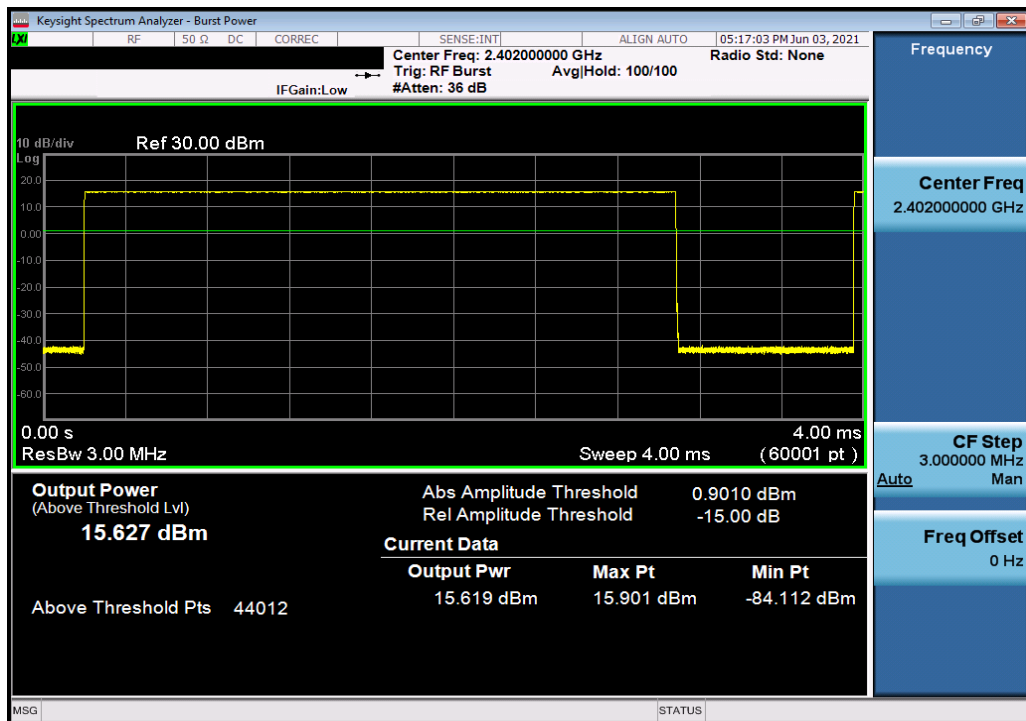
Plot 7-164. Average Conducted Power (1Mbps, ePA – Ch. 39) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 100 of 233



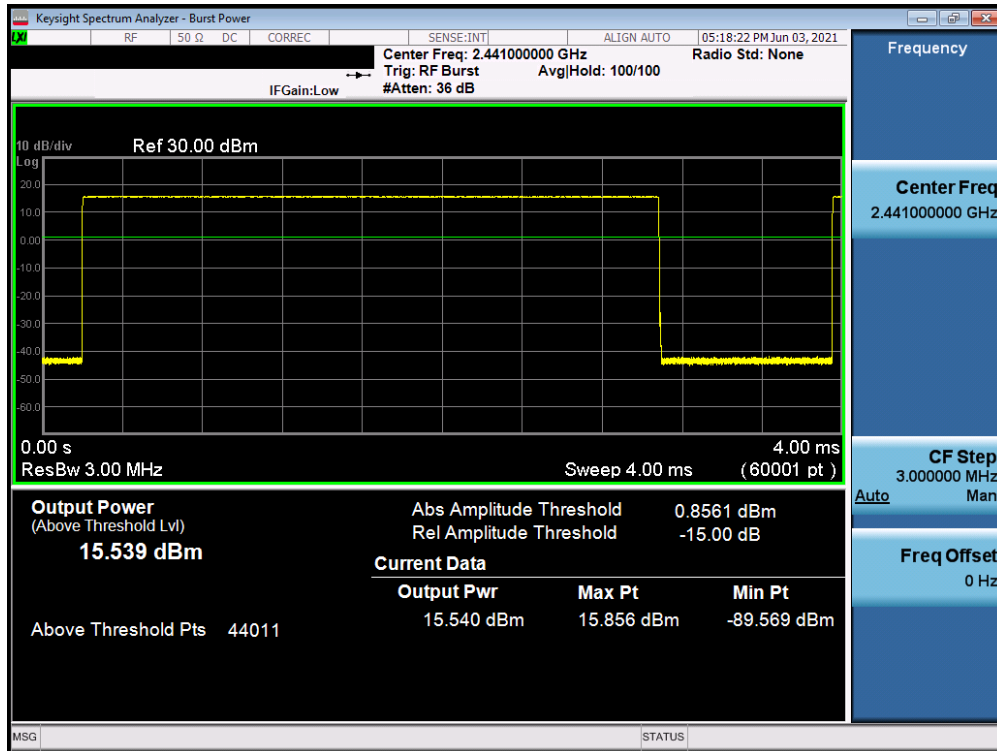


Plot 7-165. Average Conducted Power (1Mbps, ePA – Ch. 78) – ANT1 (N)

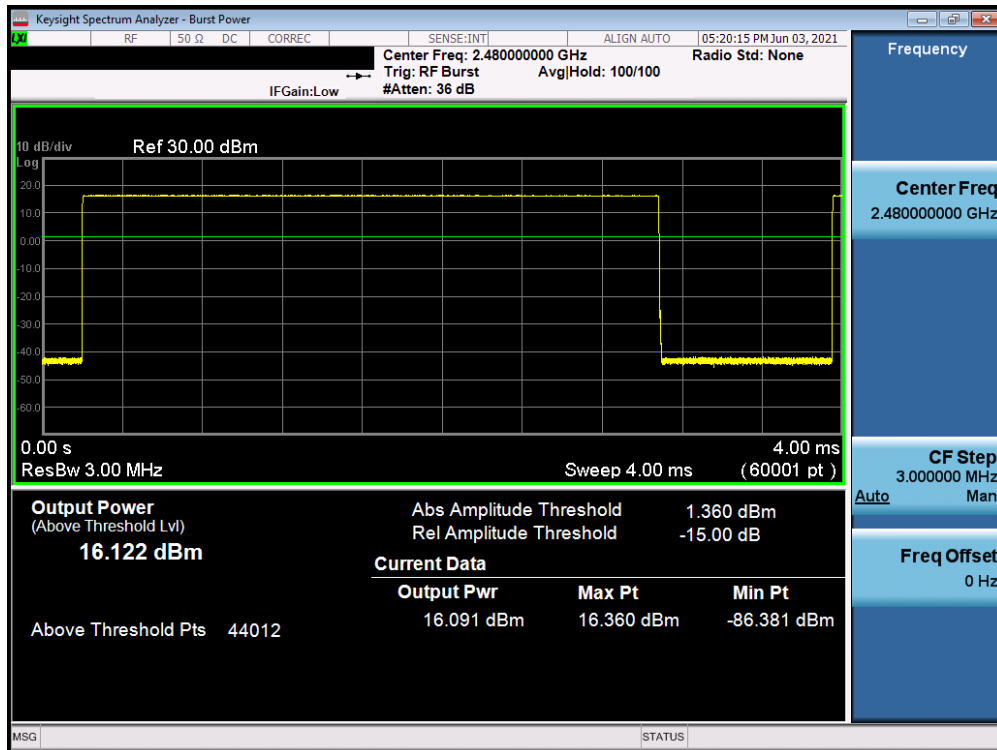


Plot 7-166. Average Conducted Power (1Mbps, iPA – Ch. 0) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 101 of 233

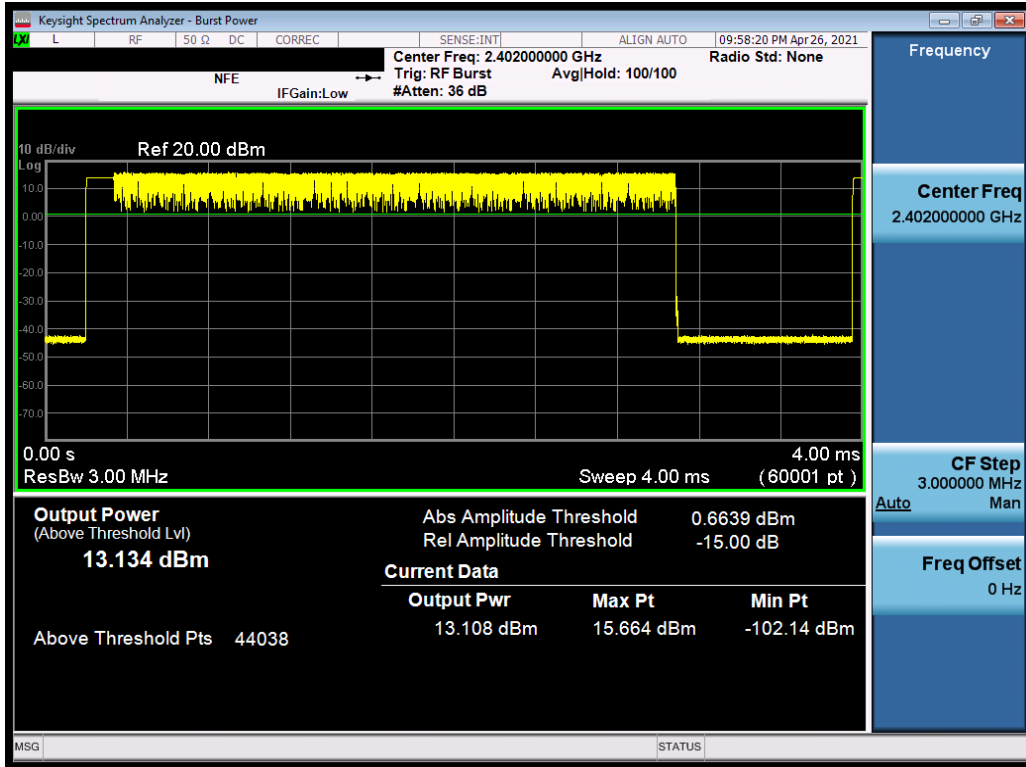


Plot 7-167. Average Conducted Power (1Mbps, iPA - Ch. 39) - ANT1 (N)

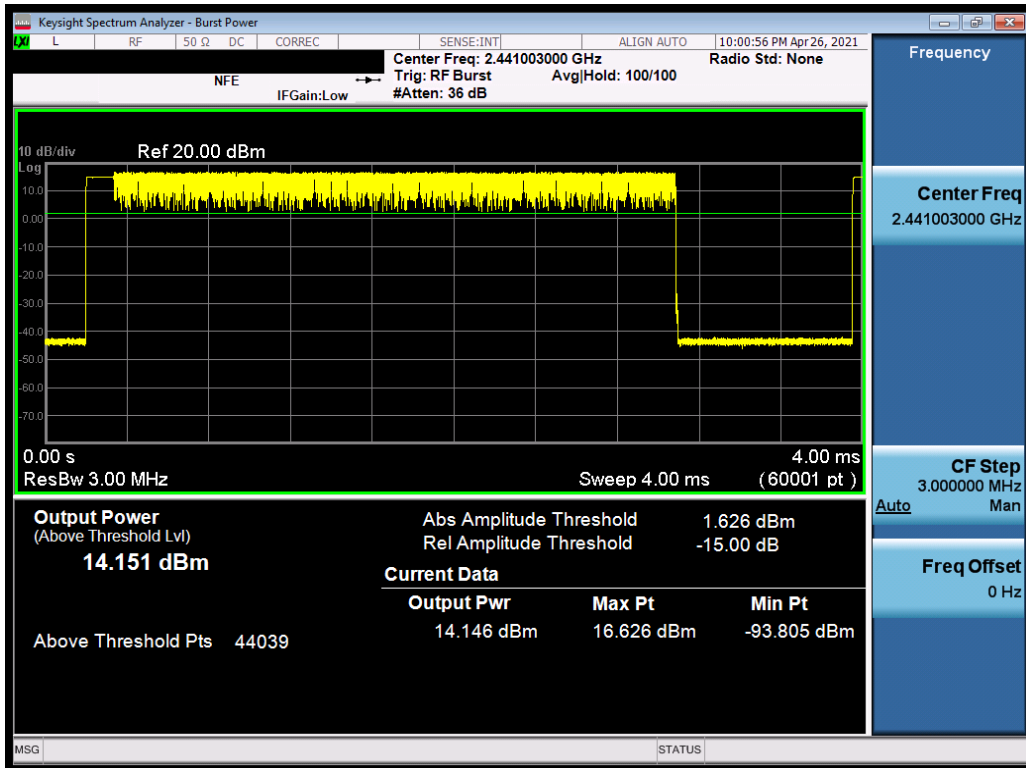


Plot 7-168. Average Conducted Power (1Mbps, iPA - Ch. 78) - ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 102 of 233

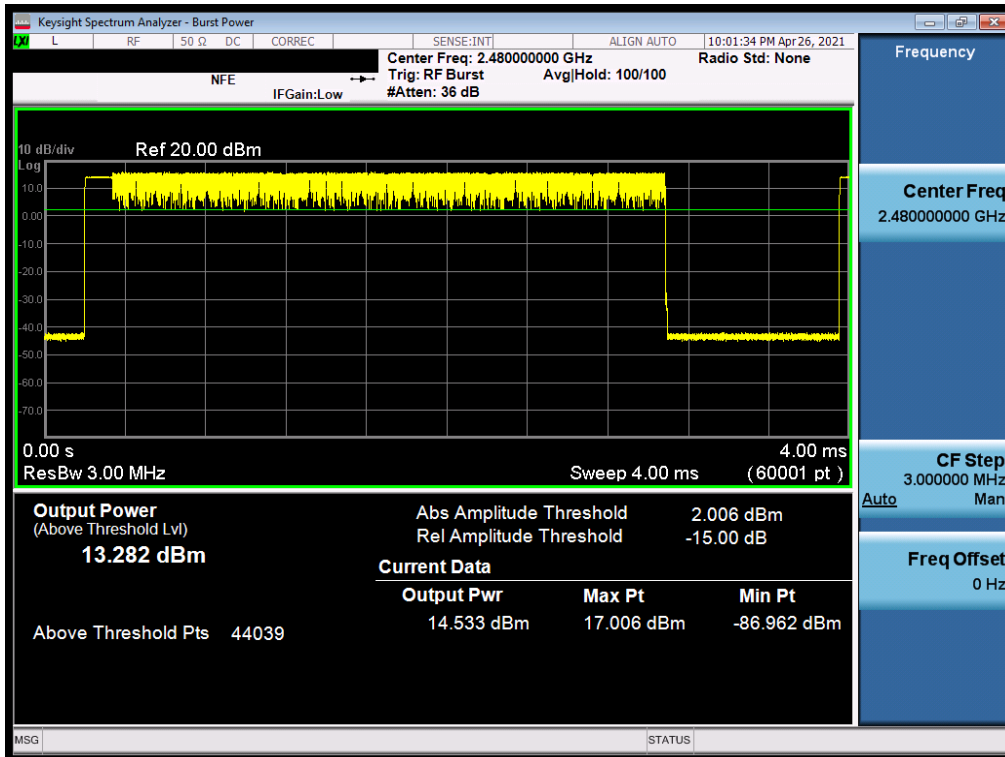


Plot 7-169. Average Conducted Power (2Mbps, ePA – Ch. 0) – ANT1 (N)

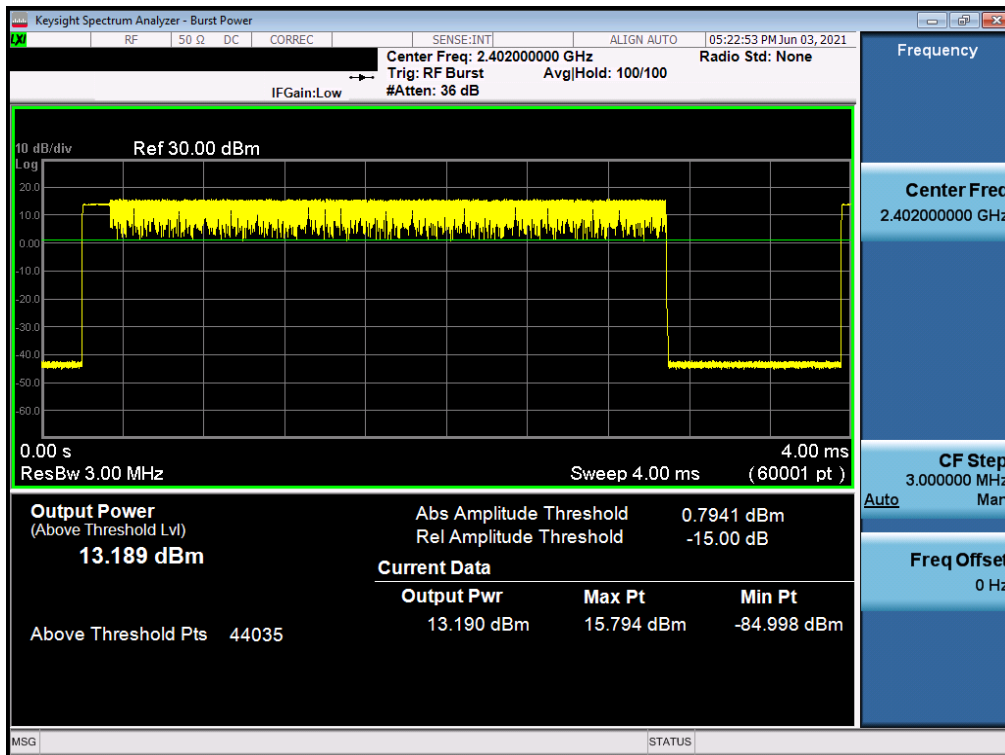


Plot 7-170. Average Conducted Power (2Mbps, ePA – Ch. 39) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 103 of 233

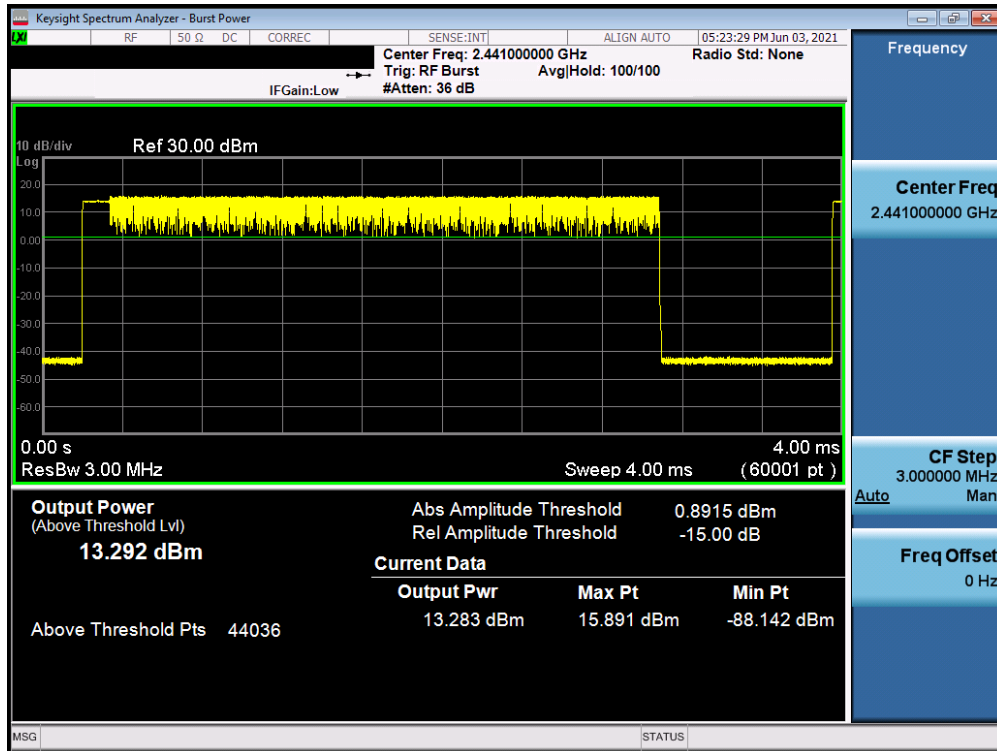


Plot 7-171. Average Conducted Power (2Mbps, ePA – Ch. 78) – ANT1 (N)

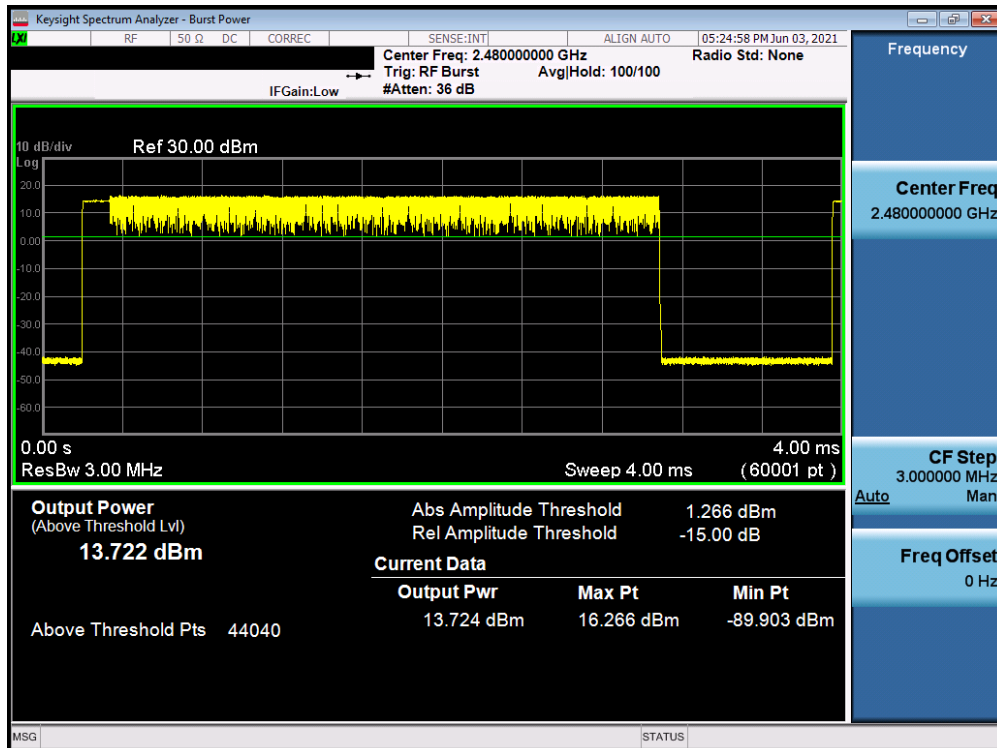


Plot 7-172. Average Conducted Power (2Mbps, iPA – Ch. 0) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 104 of 233

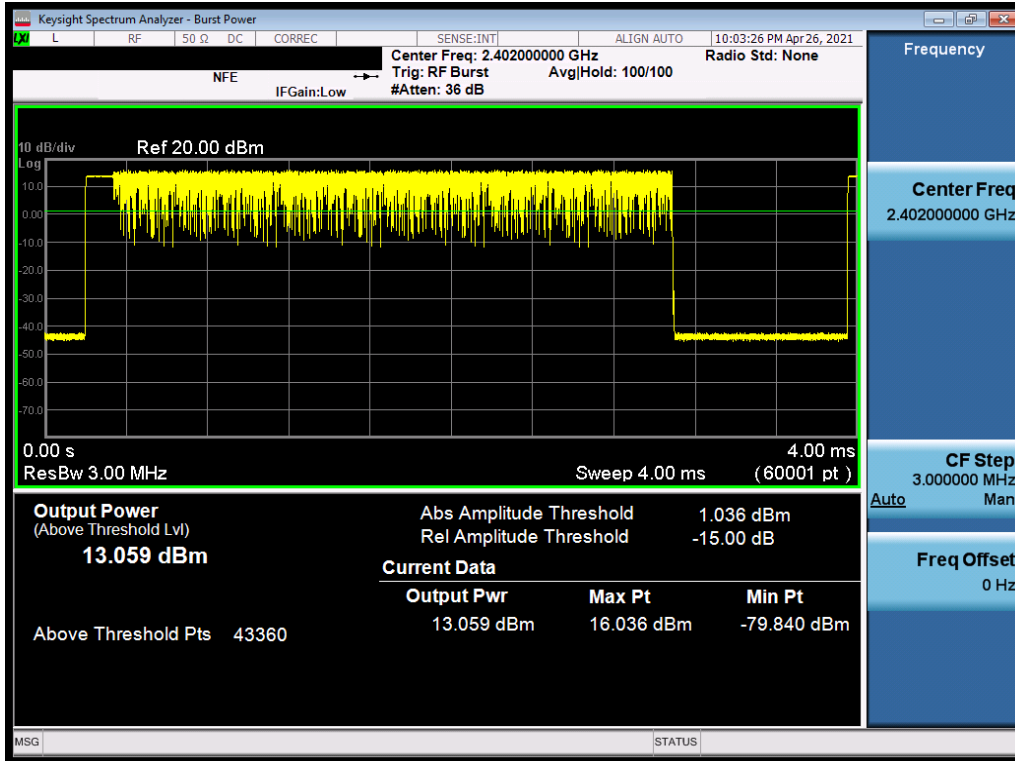


Plot 7-173. Average Conducted Power (2Mbps, iPA – Ch. 39) – ANT1 (N)

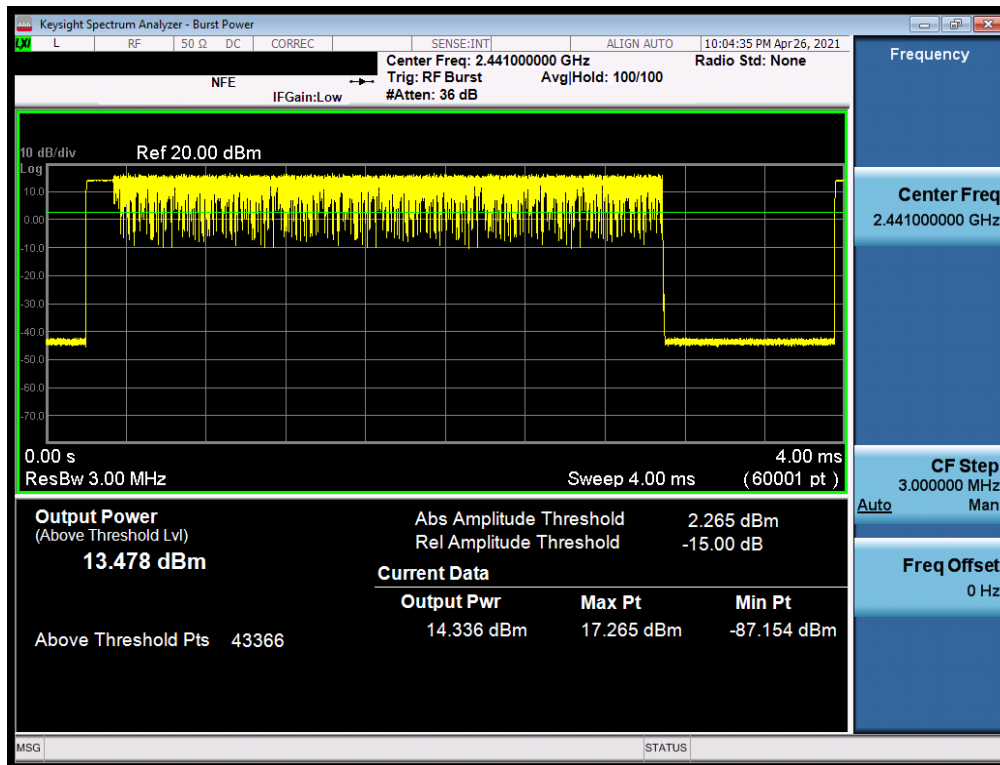


Plot 7-174. Average Conducted Power (2Mbps, iPA – Ch. 78) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 105 of 233

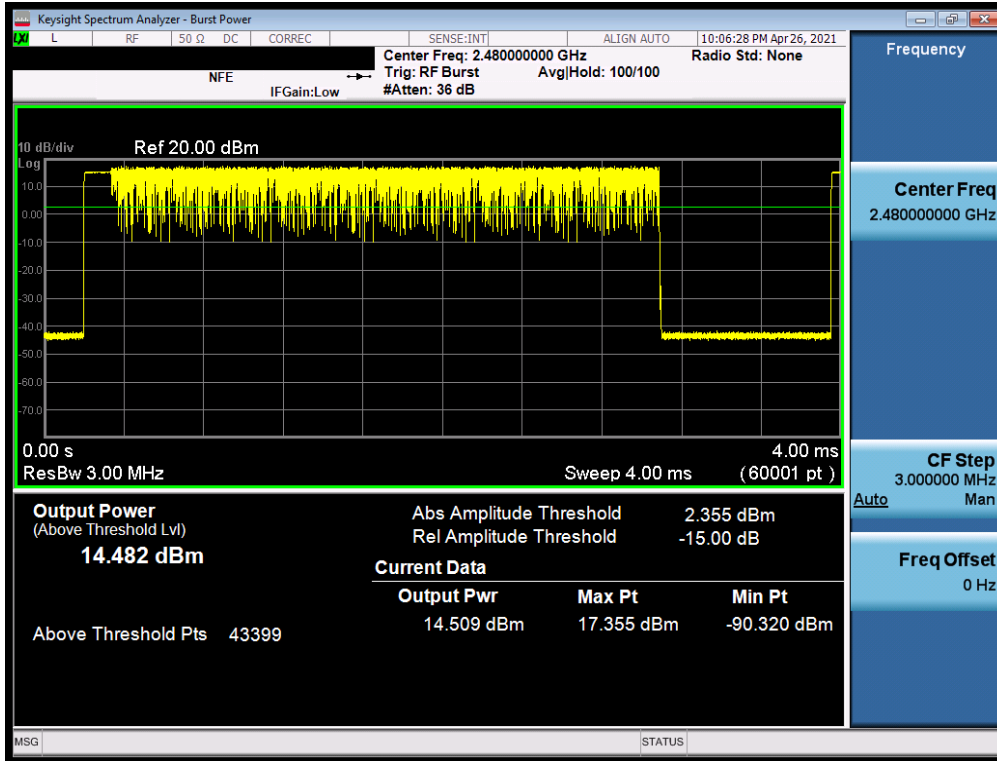


Plot 7-175. Average Conducted Power (3Mbps, ePA – Ch. 0) – ANT1 (N)

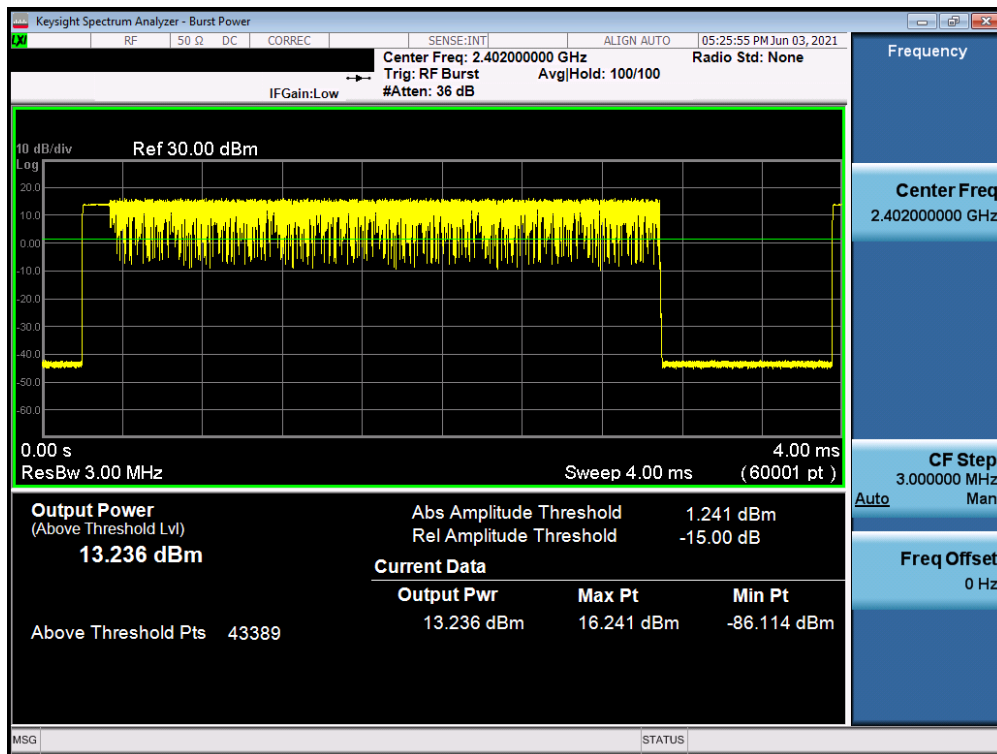


Plot 7-176. Average Conducted Power (3Mbps, ePA – Ch. 39) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 106 of 233

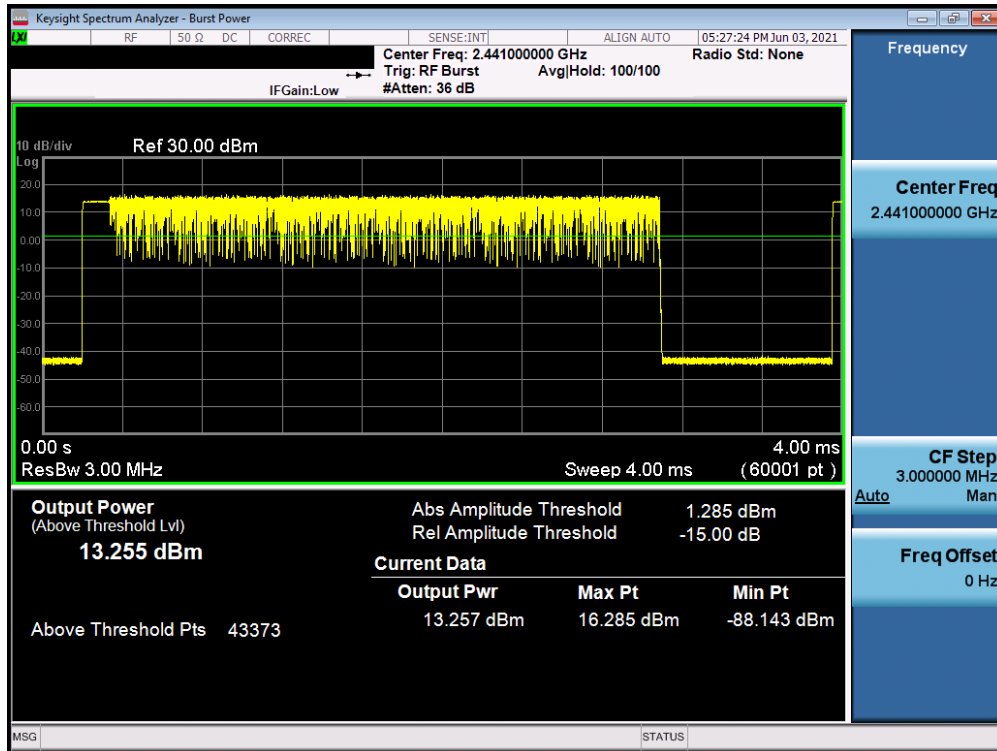


Plot 7-177. Average Conducted Power (3Mbps, ePA – Ch. 78) – ANT1 (N)

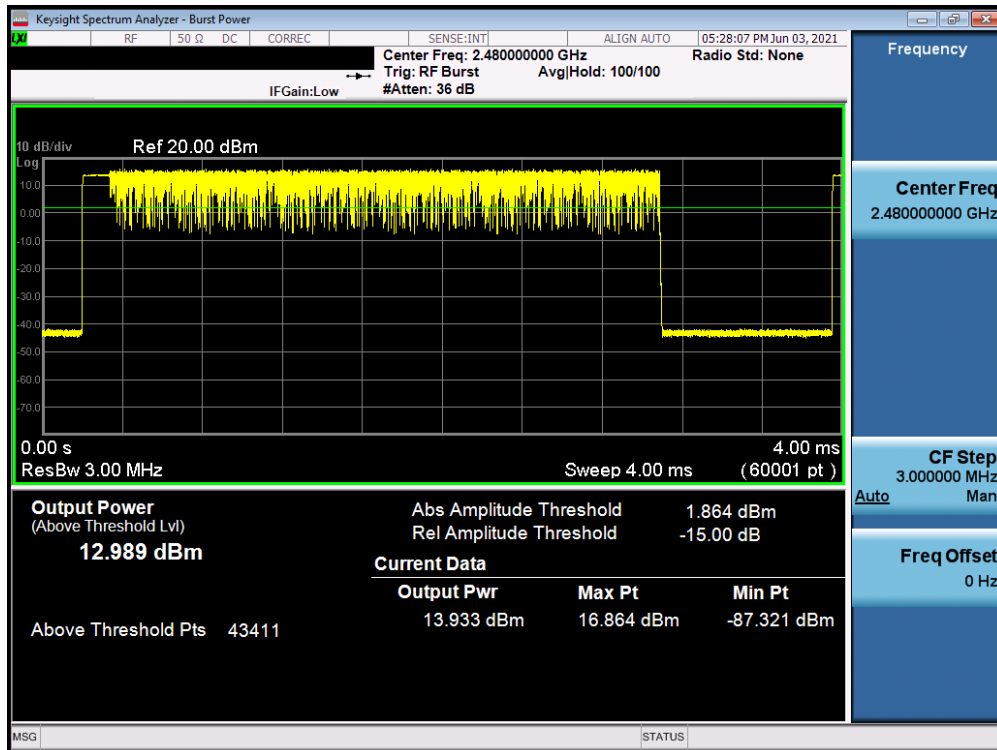


Plot 7-178. Average Conducted Power (3Mbps, iPA – Ch. 0) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 107 of 233



Plot 7-179. Average Conducted Power (3Mbps, iPA – Ch. 39) – ANT1 (N)



Plot 7-180. Average Conducted Power (3Mbps, iPA – Ch. 78) – ANT1 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 108 of 233



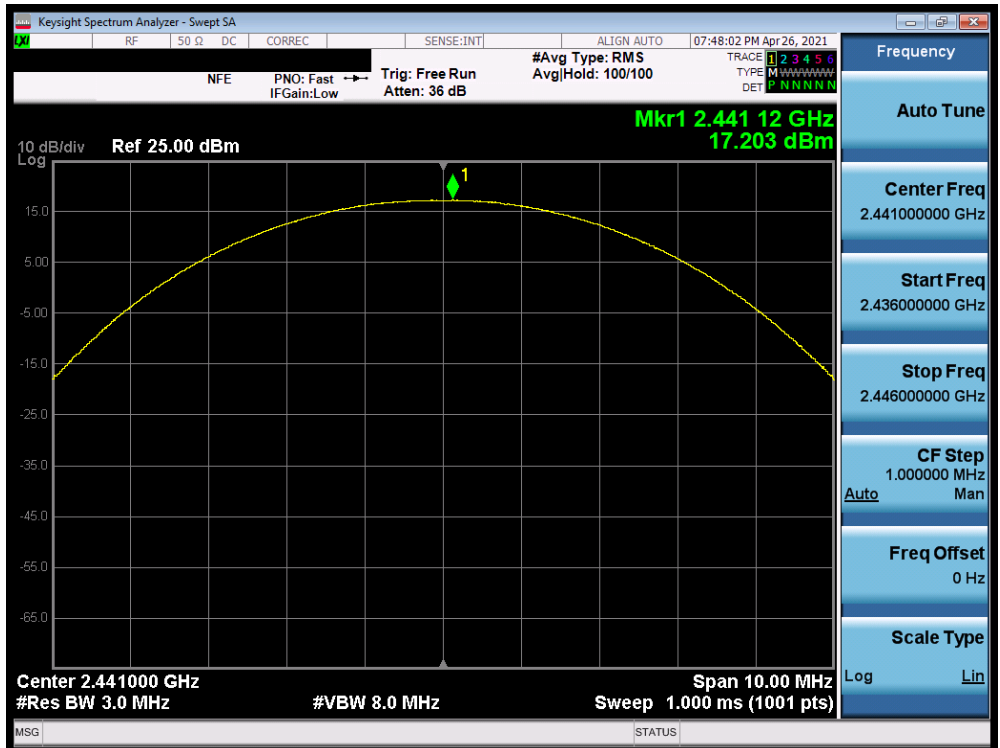
Frequency [MHz]	Data Rate [Mbps]	Power Scheme	Channel No.	Peak Conducted Power		Avg Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]
2402	1.0	ePA	0	16.19	41.591	14.97	31.405
2441	1.0	ePA	39	17.20	52.481	16.61	45.814
2480	1.0	ePA	78	16.25	42.170	15.66	36.813
2402	1.0	iPA	0	15.52	35.612	15.23	33.335
2441	1.0	iPA	39	17.30	53.740	16.65	46.185
2480	1.0	iPA	78	16.35	43.192	16.30	42.678
2402	2.0	ePA	0	15.07	32.137	12.40	17.378
2441	2.0	ePA	39	16.95	49.545	13.96	24.889
2480	2.0	ePA	78	15.97	39.537	12.31	17.022
2402	2.0	iPA	0	15.90	38.860	12.88	19.404
2441	2.0	iPA	39	16.89	48.831	14.32	27.008
2480	2.0	iPA	78	16.54	45.092	13.82	24.082
2402	3.0	ePA	0	15.61	36.392	12.40	17.378
2441	3.0	ePA	39	16.97	49.774	14.29	26.853
2480	3.0	ePA	78	16.64	46.132	13.33	21.528
2402	3.0	iPA	0	15.91	38.985	13.13	20.535
2441	3.0	iPA	39	17.74	59.484	14.27	26.749
2480	3.0	iPA	78	16.72	47.033	13.79	23.939

**Table 7-7. Conducted Output Power Measurements – ANT1 (Q)**

FCC ID: A3LSMF711B	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 109 of 233

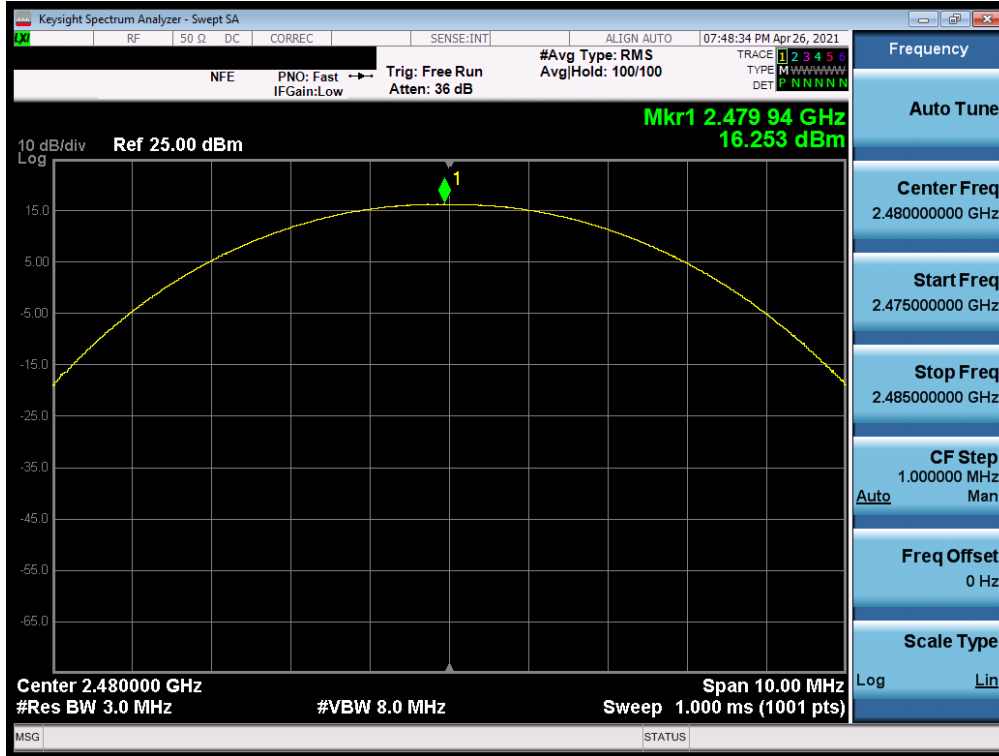


Plot 7-181. Peak Conducted Power (1Mbps, ePA – Ch. 0) – ANT1 (Q)

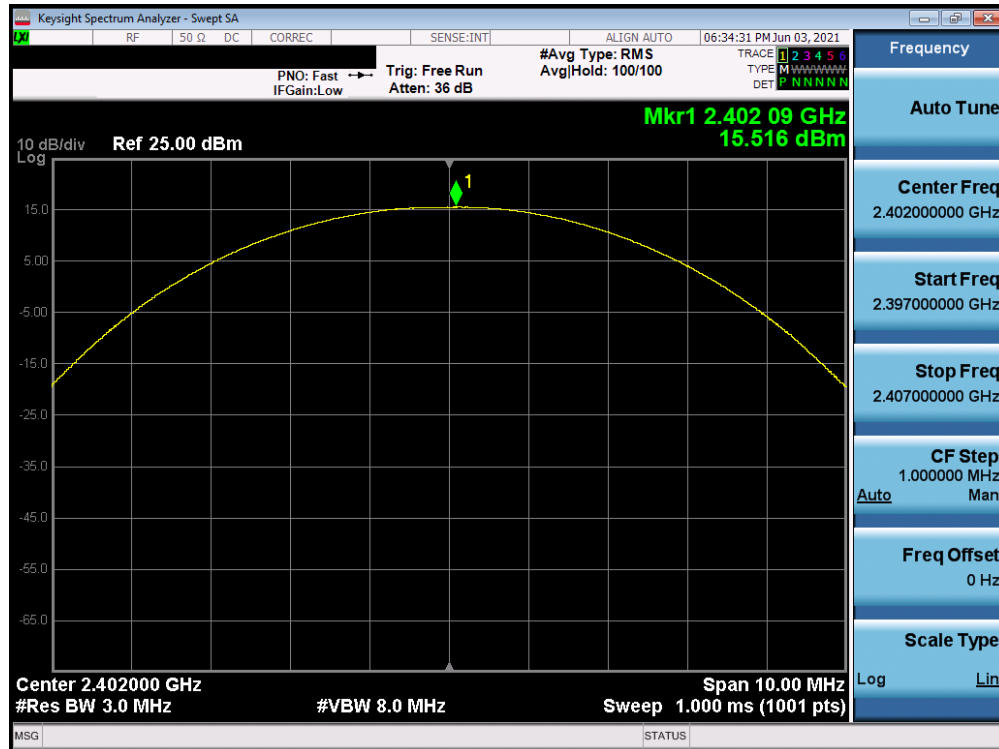


Plot 7-182. Peak Conducted Power (1Mbps, ePA – Ch. 39) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 110 of 233

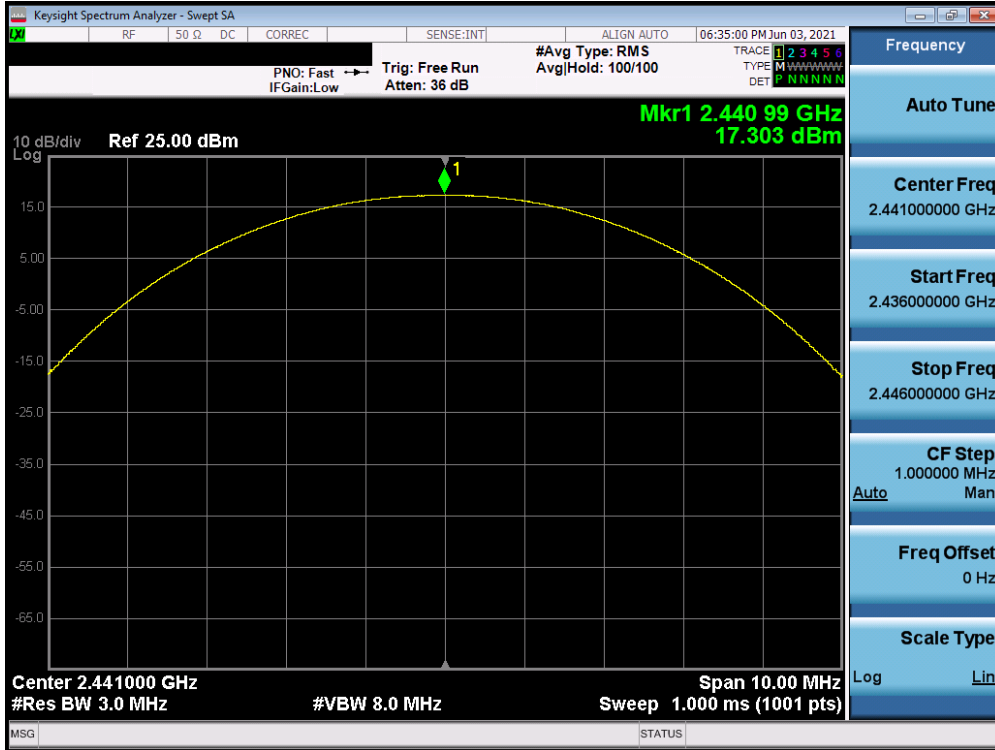


Plot 7-183. Peak Conducted Power (1Mbps, ePA – Ch. 78) – ANT1 (Q)

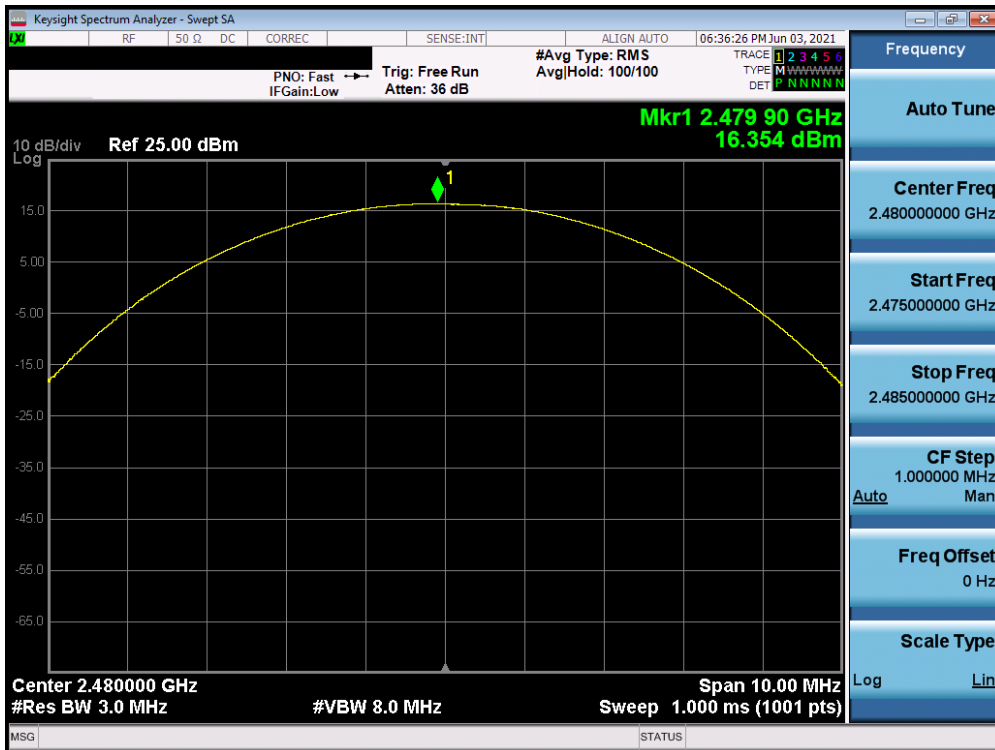


Plot 7-184. Peak Conducted Power (1Mbps, iPA – Ch. 0) – ANT1 (Q)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 111 of 233

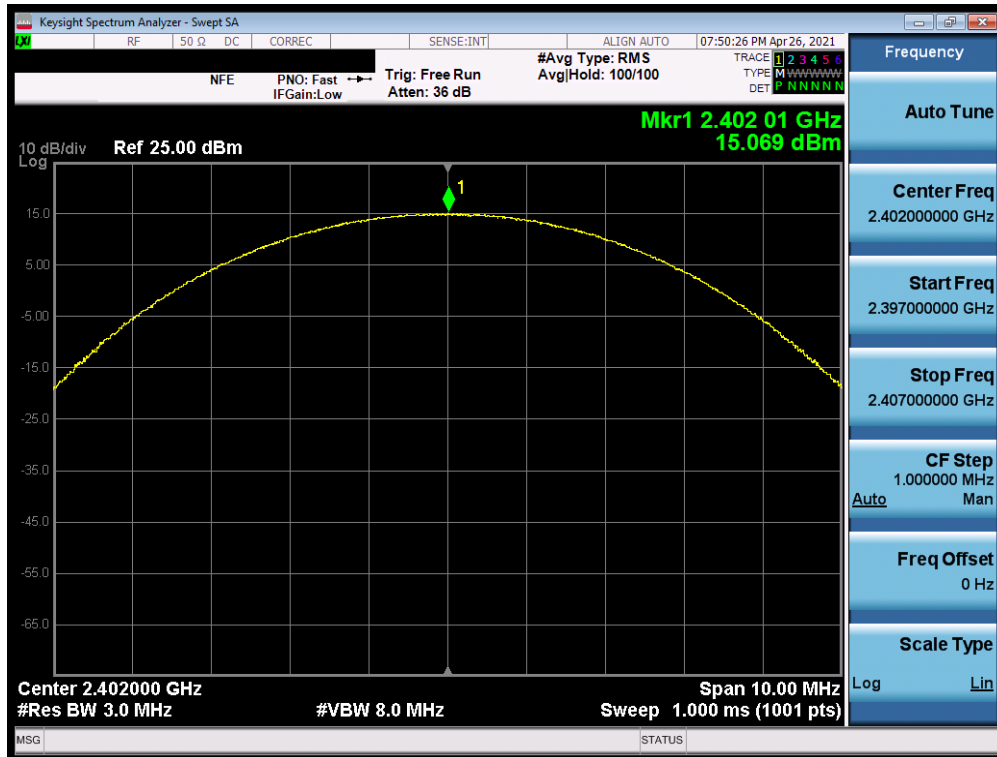


Plot 7-185. Peak Conducted Power (1Mbps, iPA – Ch. 39) – ANT1 (Q)

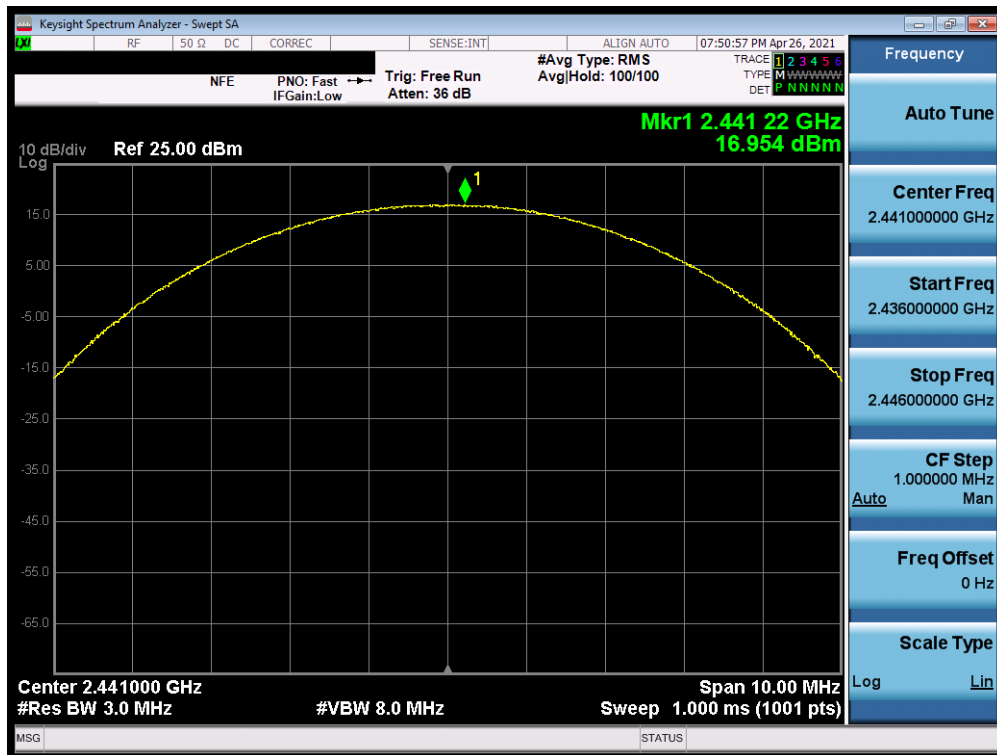


Plot 7-186. Peak Conducted Power (1Mbps, iPA – Ch. 78) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 112 of 233

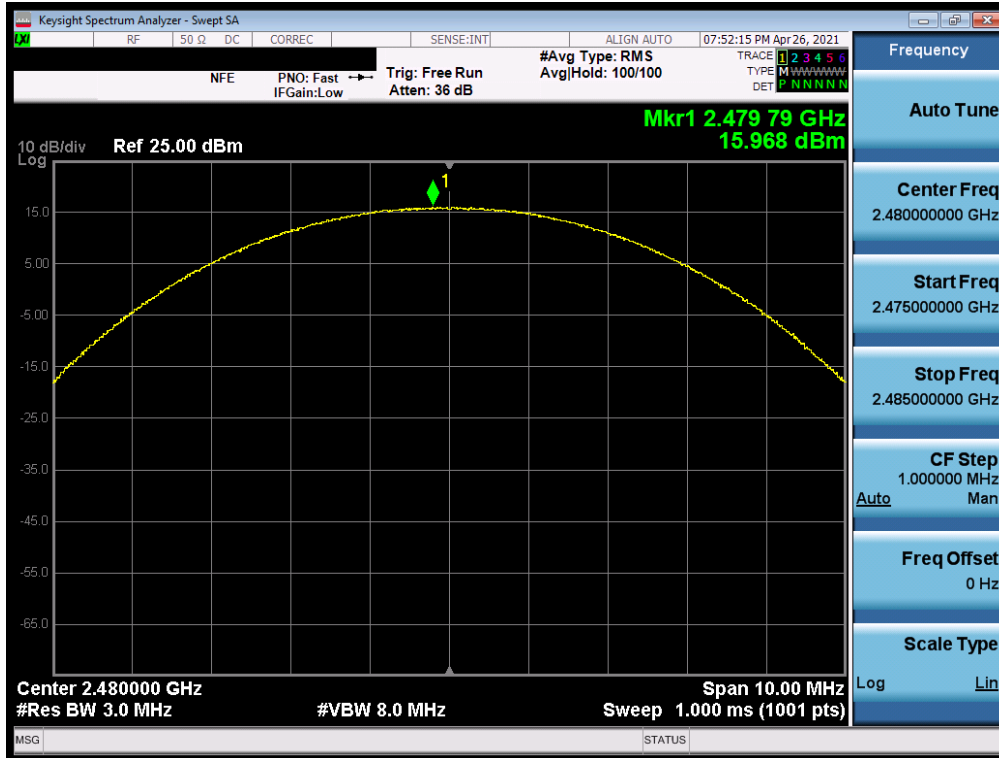


Plot 7-187. Peak Conducted Power (2Mbps, ePA – Ch. 0) – ANT1 (Q)

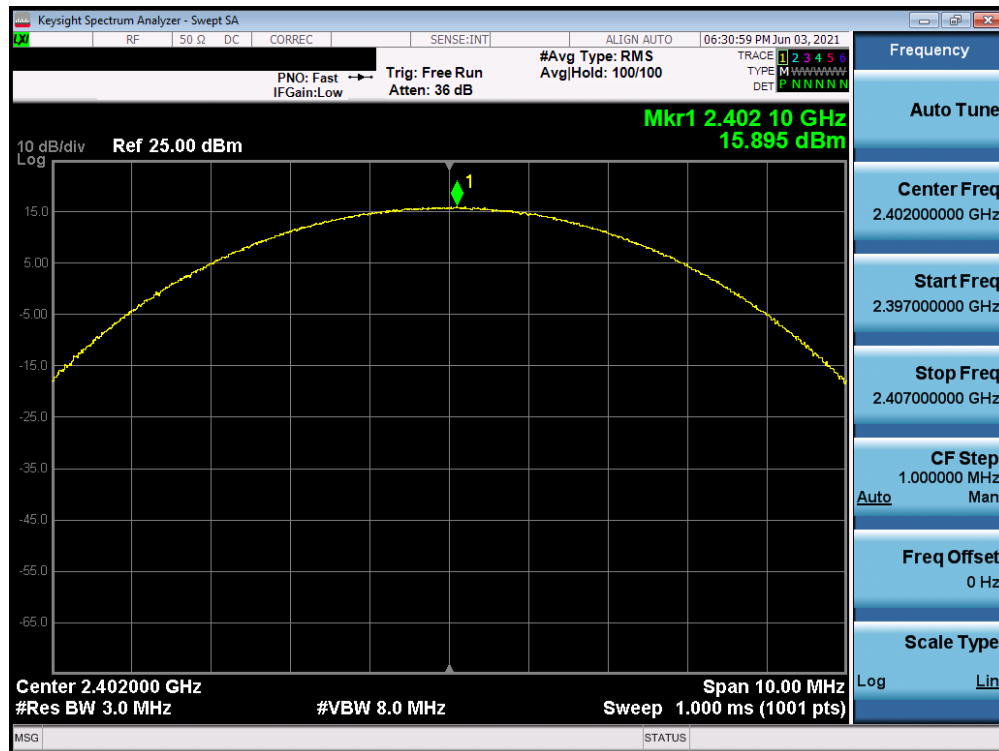


Plot 7-188. Peak Conducted Power (2Mbps, ePA – Ch. 39) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 113 of 233

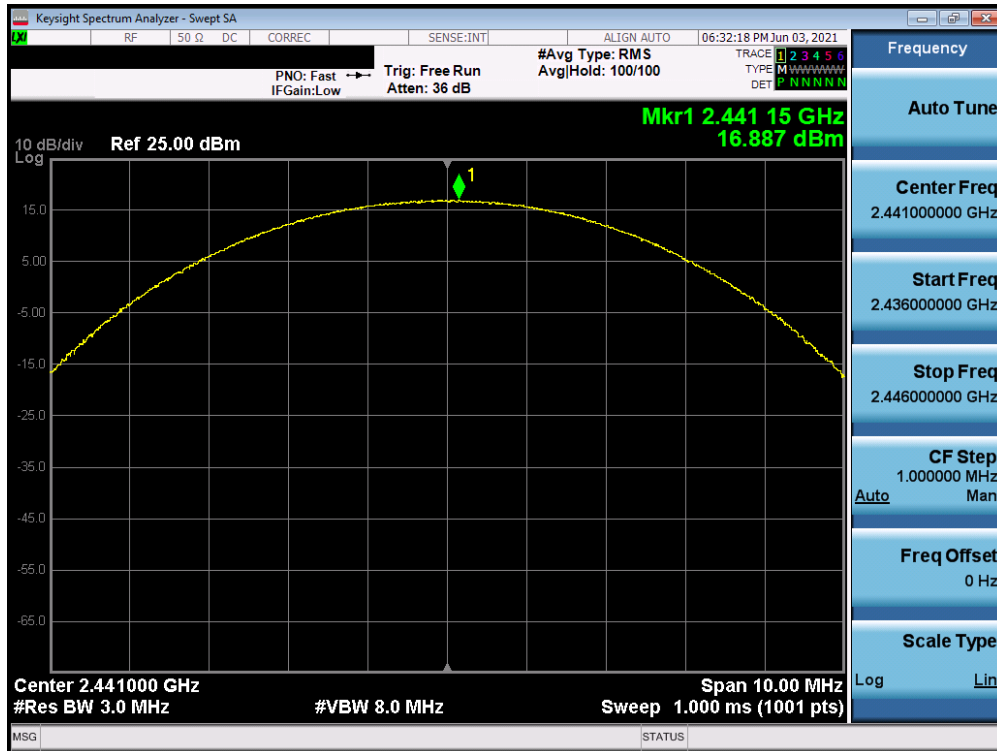


Plot 7-189. Peak Conducted Power (2Mbps, ePA – Ch. 78) – ANT1 (Q)

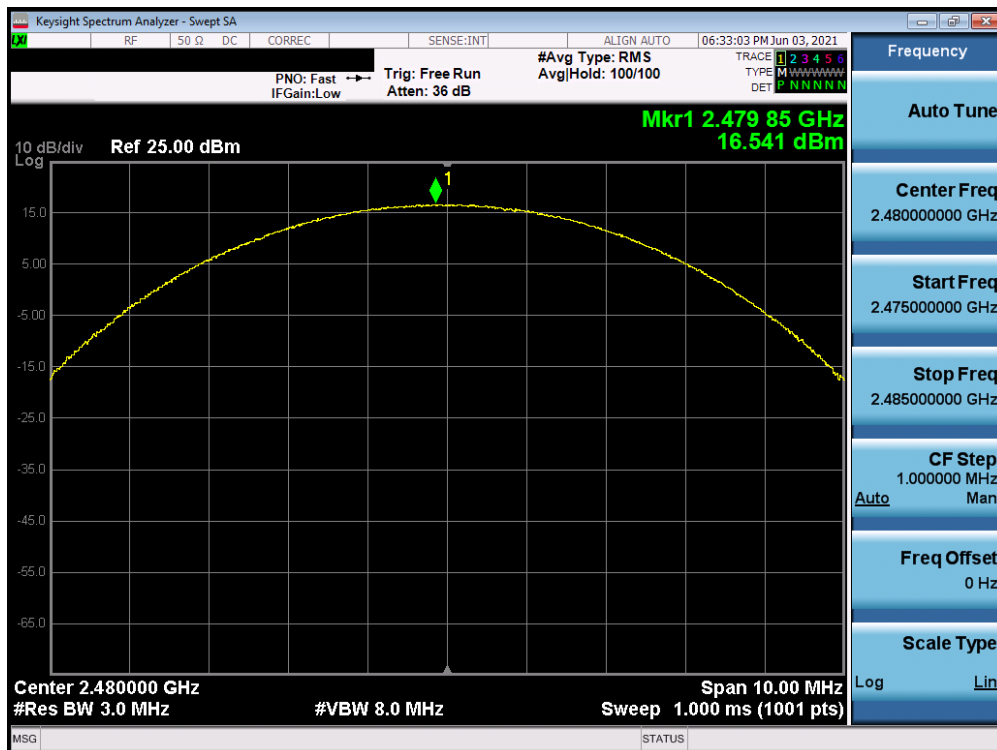


Plot 7-190. Peak Conducted Power (2Mbps, iPA – Ch. 0) – ANT1 (Q)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 114 of 233

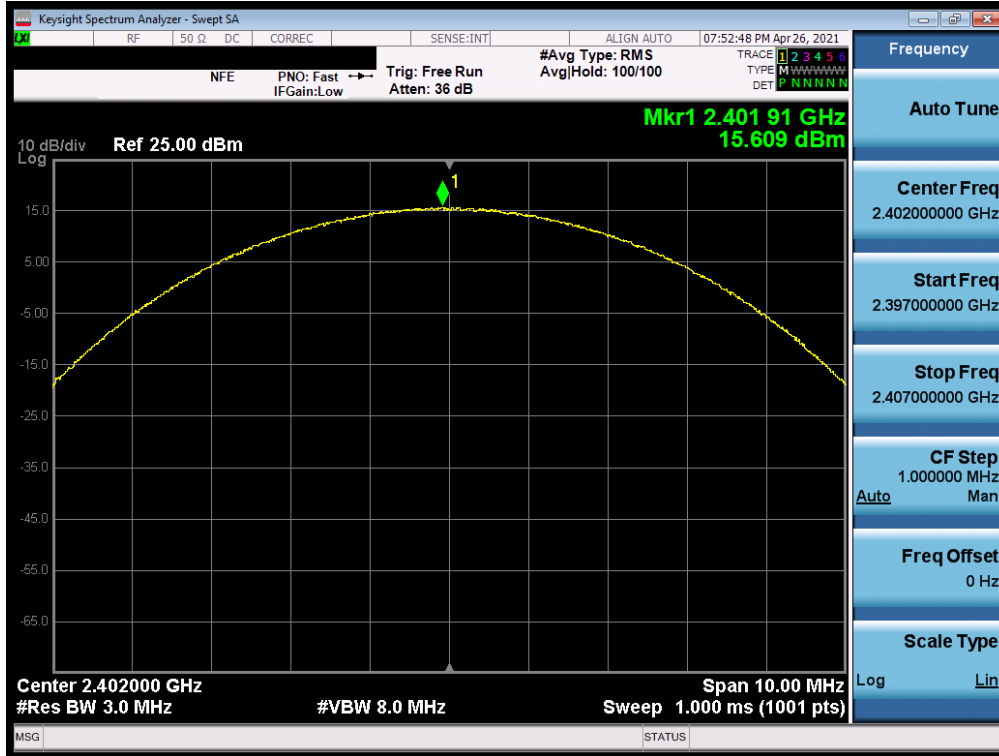


Plot 7-191. Peak Conducted Power (2Mbps, iPA - Ch. 39) - ANT1 (Q)

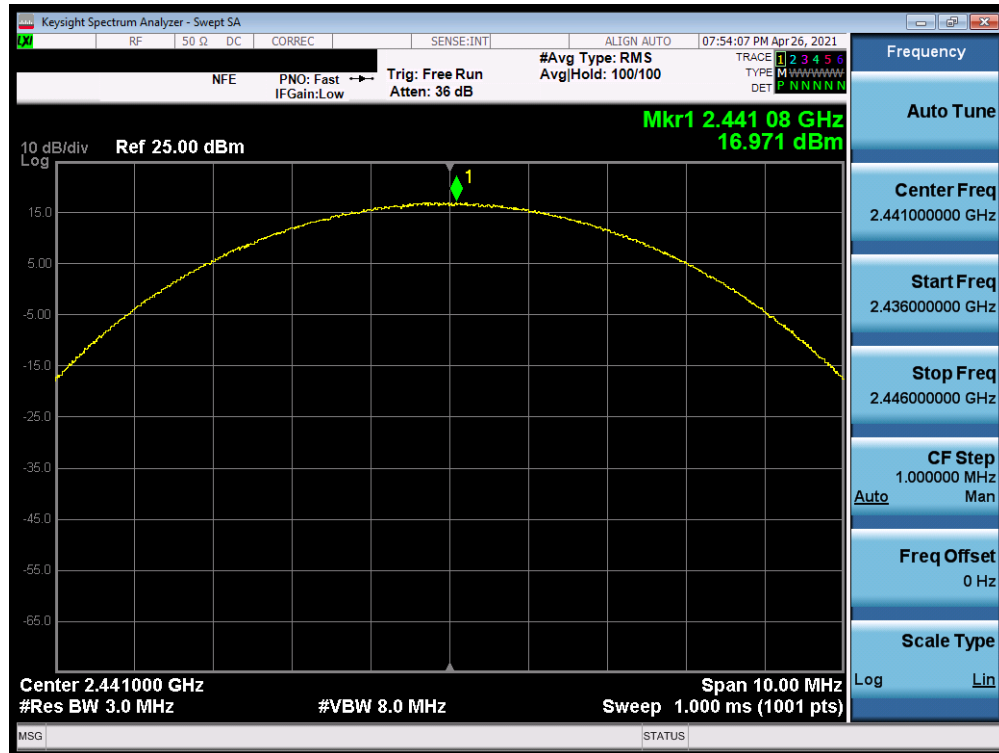


Plot 7-192. Peak Conducted Power (2Mbps, iPA - Ch. 78) - ANT1 (Q)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 115 of 233



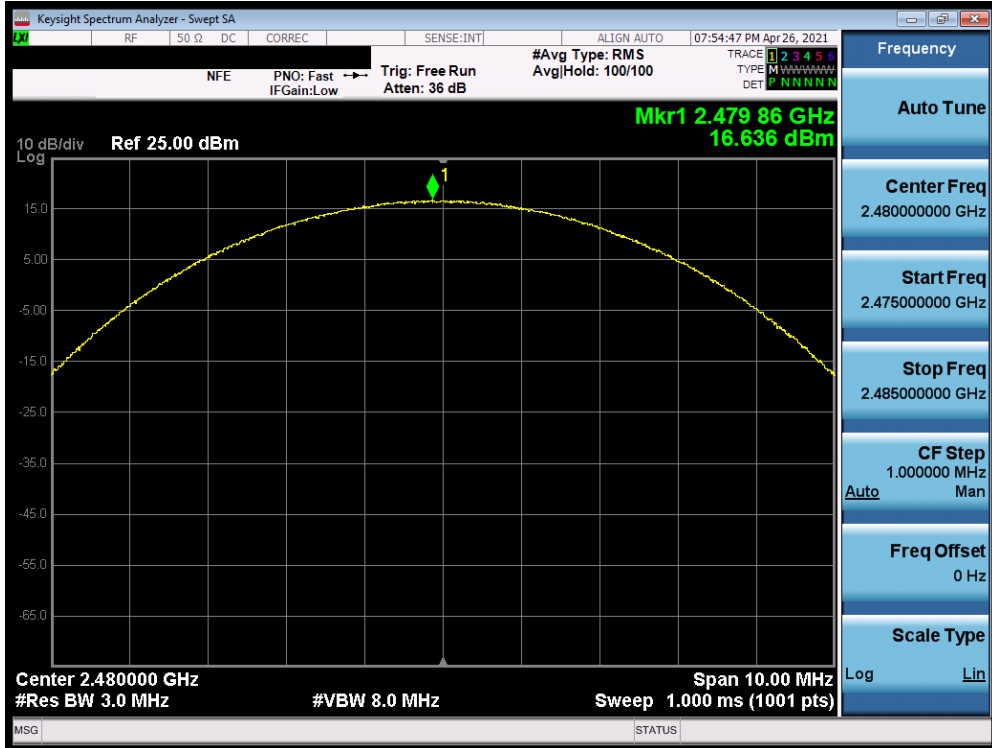
Plot 7-193. Peak Conducted Power (3Mbps, ePA – Ch. 0) – ANT1 (Q)



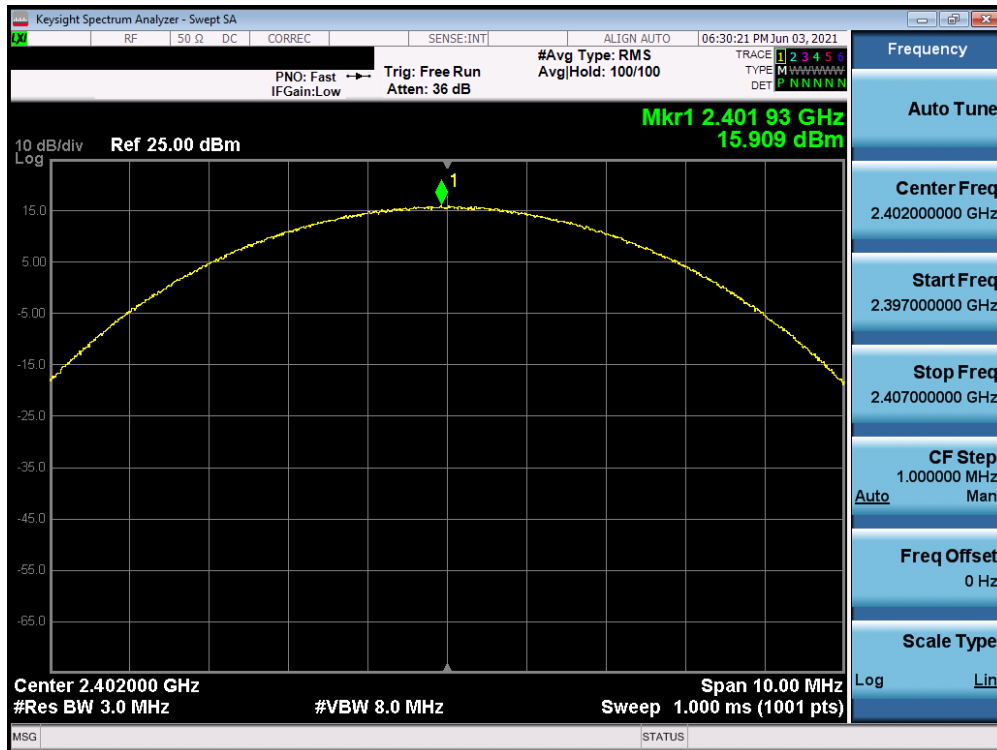
Plot 7-194. Peak Conducted Power (3Mbps, ePA – Ch. 39) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 116 of 233



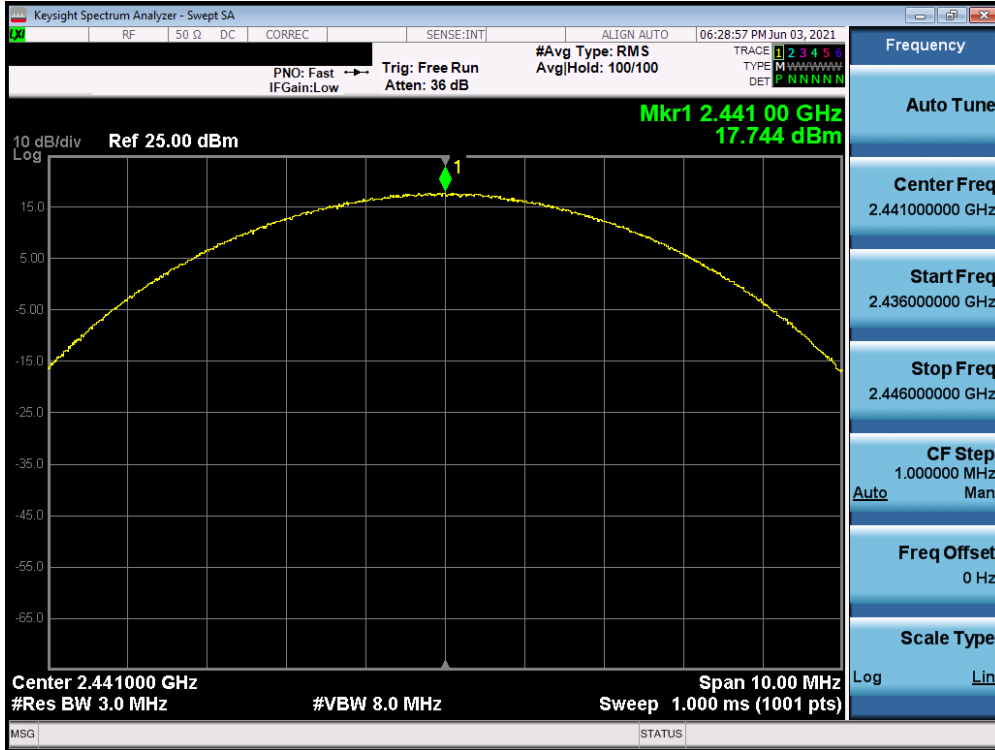


Plot 7-195. Peak Conducted Power (3Mbps, ePA – Ch. 78) – ANT1 (Q)

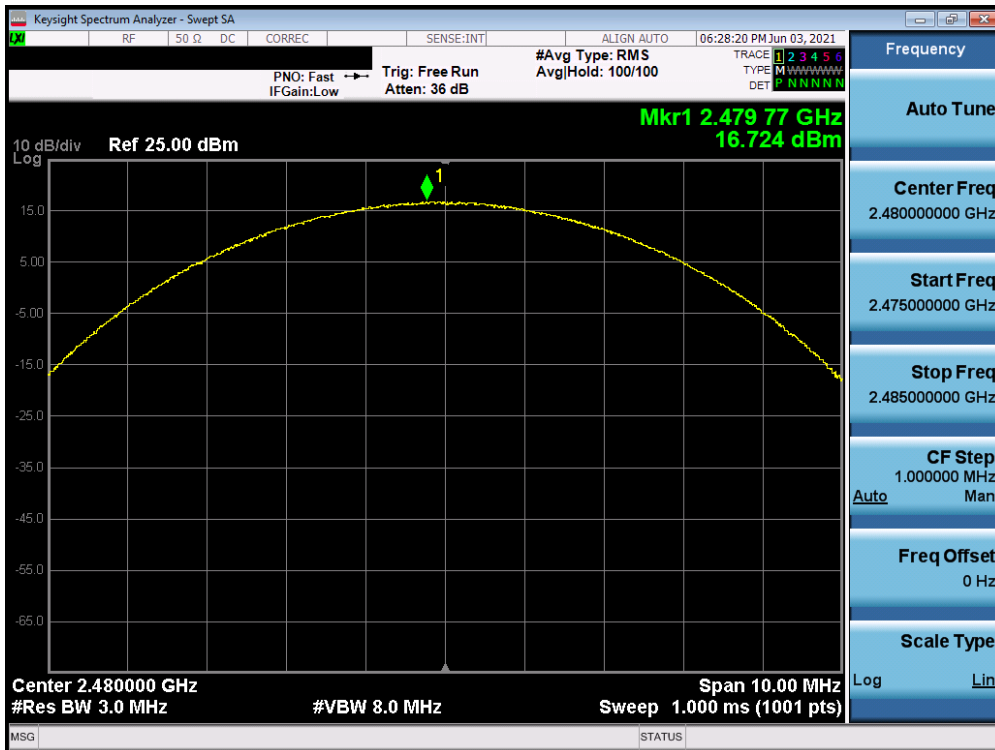


Plot 7-196. Peak Conducted Power (3Mbps, iPA – Ch. 0) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 117 of 233

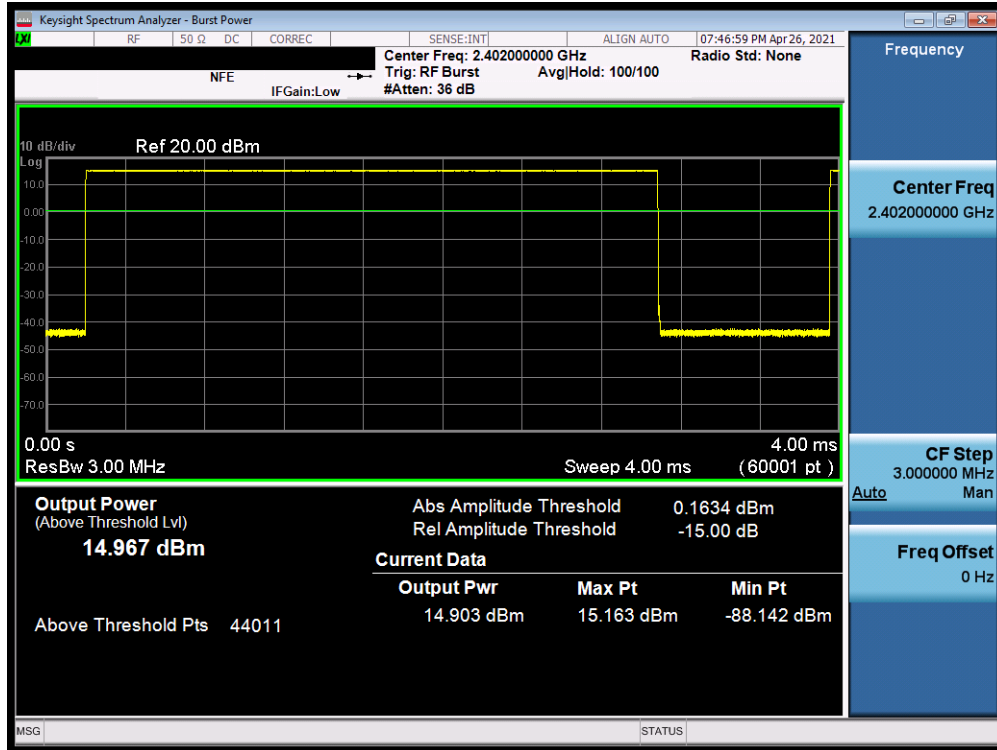


Plot 7-197. Peak Conducted Power (3Mbps, iPA – Ch. 39) – ANT1 (Q)

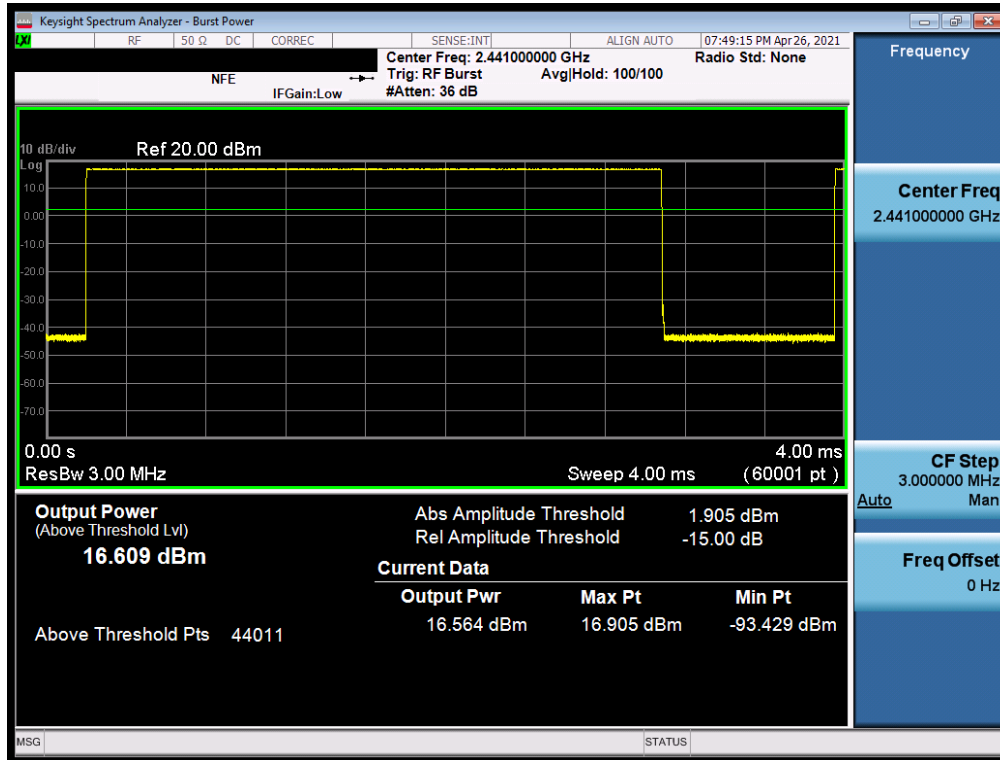


Plot 7-198. Peak Conducted Power (3Mbps, iPA – Ch. 78) – ANT1 (Q)

FCC ID: A3LSMF711B	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 118 of 233

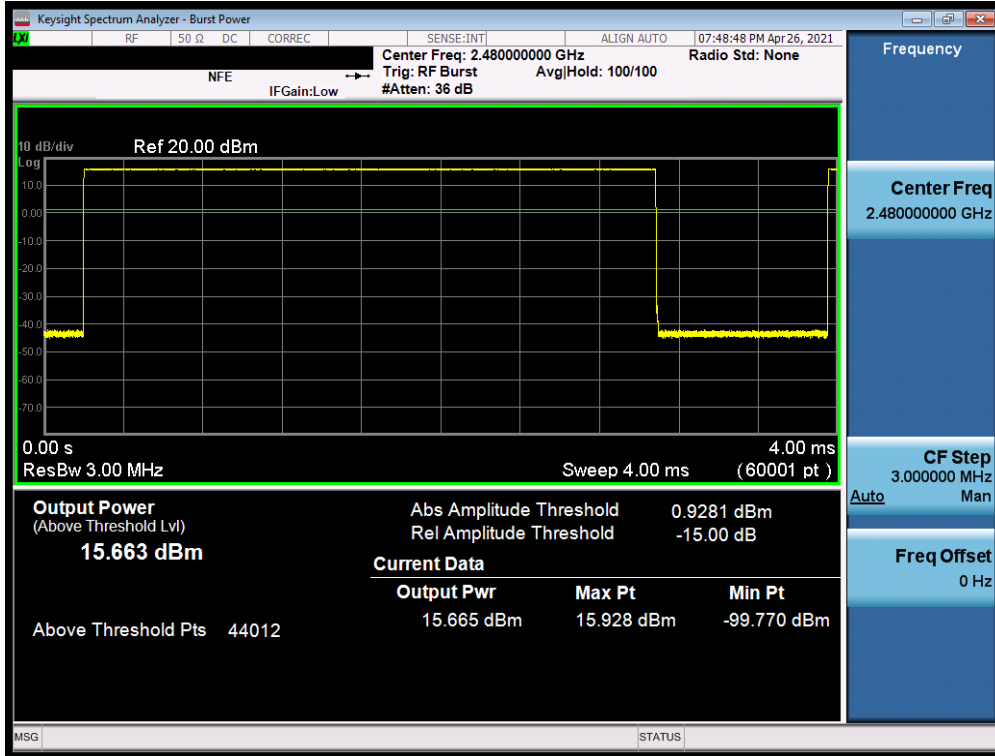


Plot 7-199. Average Conducted Power (1Mbps, ePA – Ch. 0) – ANT1 (Q)

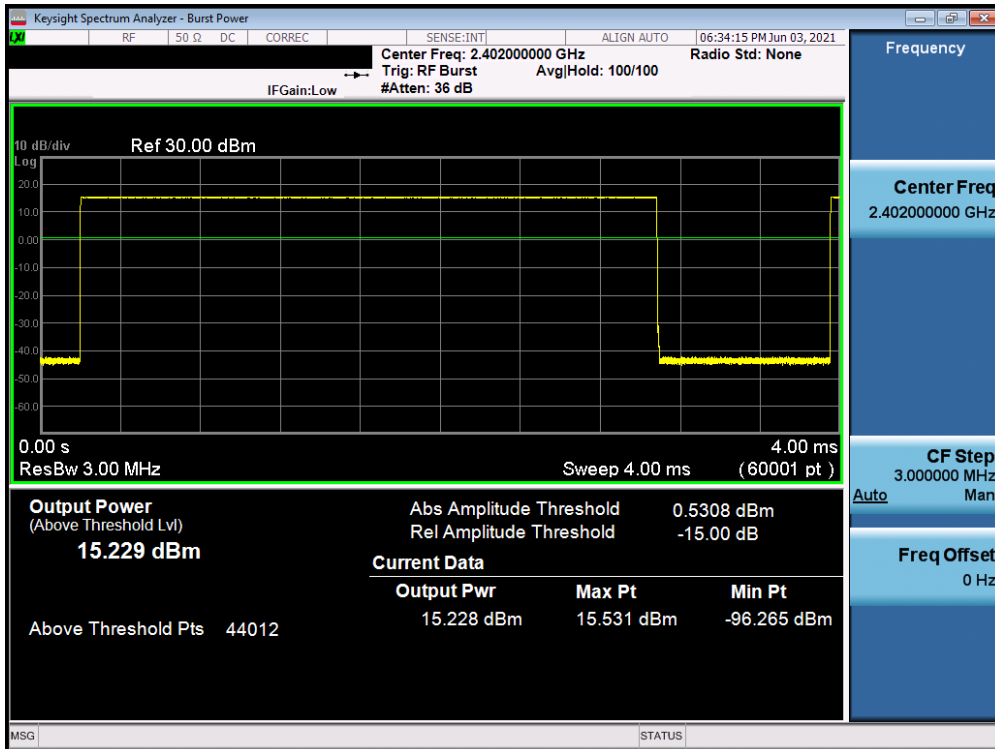


Plot 7-200. Average Conducted Power (1Mbps, ePA – Ch. 39) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 119 of 233

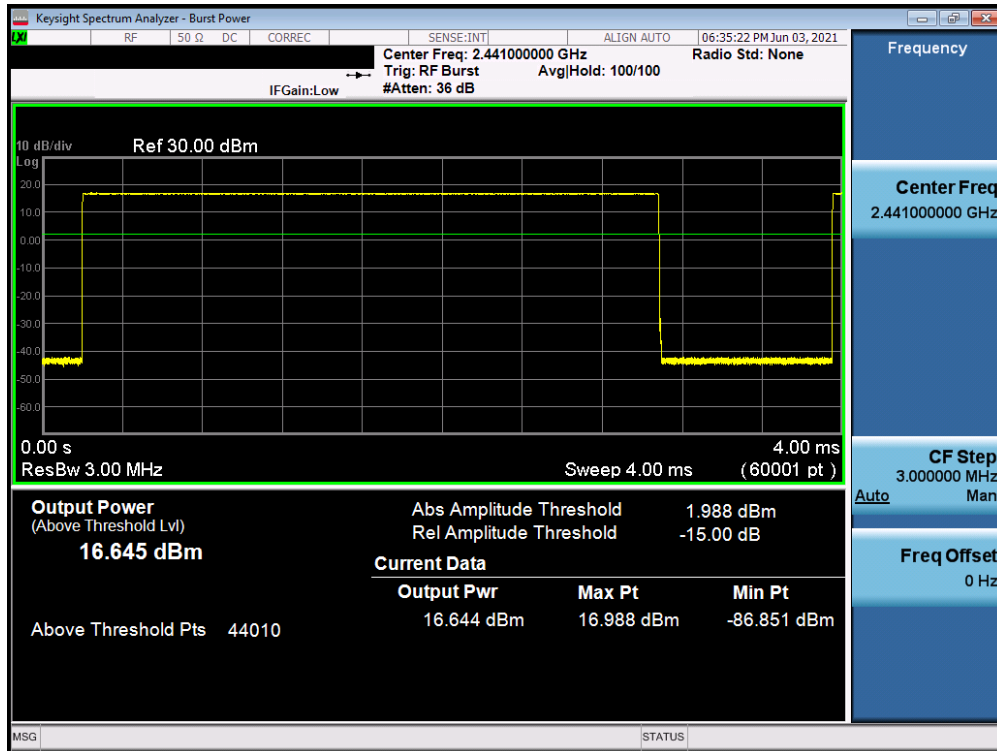


Plot 7-201. Average Conducted Power (1Mbps, ePA - Ch. 78) – ANT1 (Q)

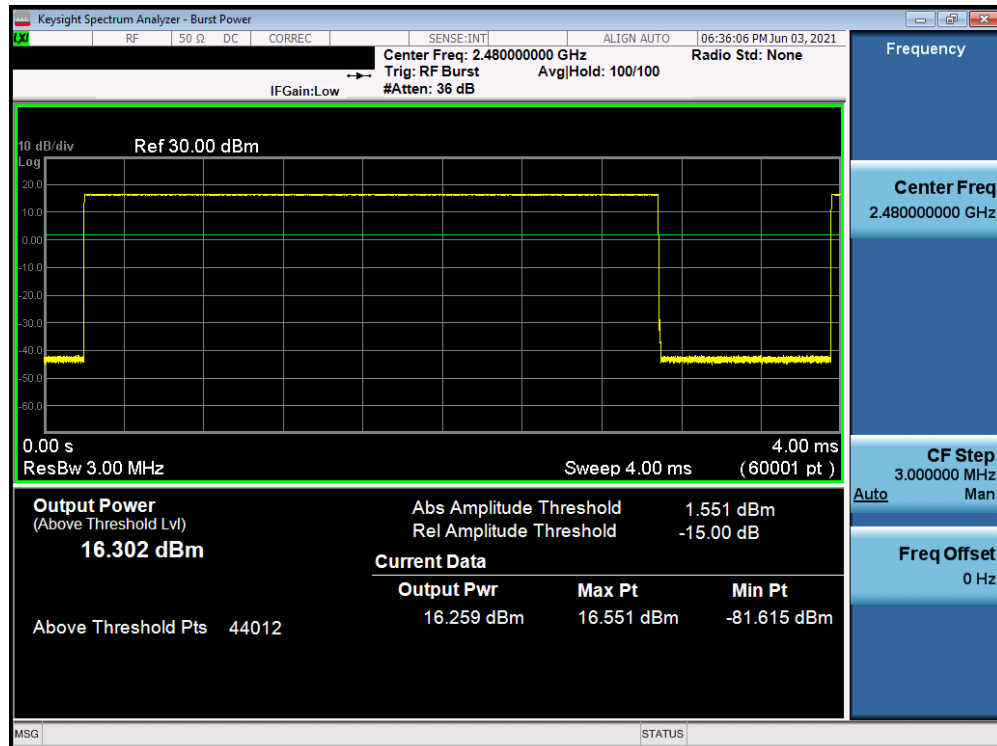


Plot 7-202. Average Conducted Power (1Mbps, iPA - Ch. 0) – ANT1 (Q)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 120 of 233

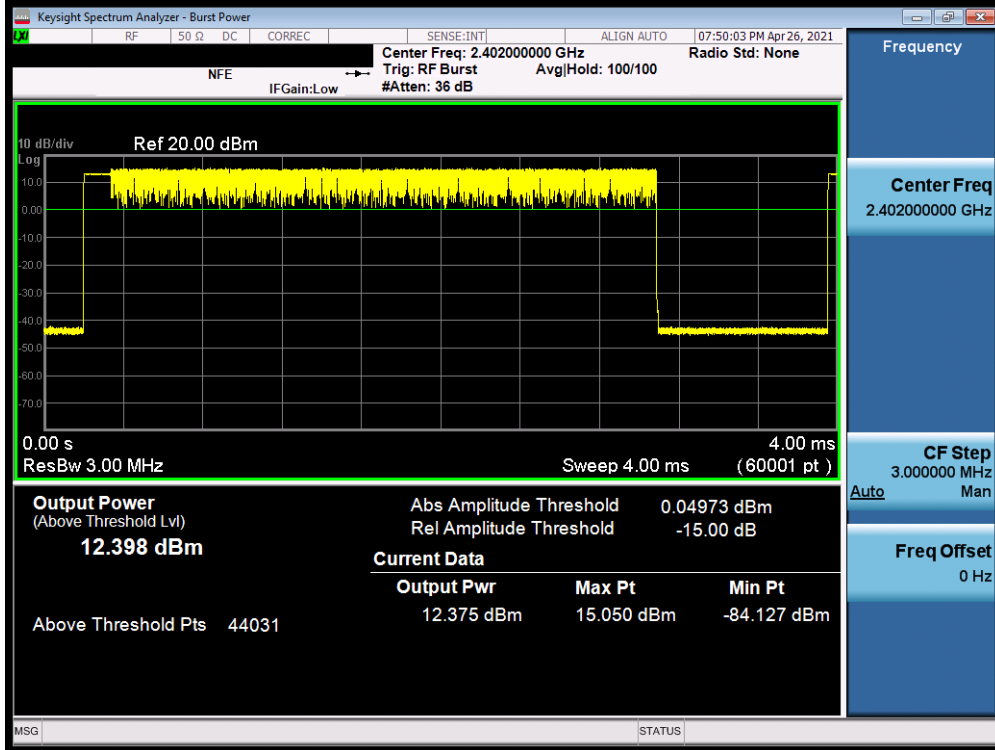


Plot 7-203. Average Conducted Power (1Mbps, iPA – Ch. 39) – ANT1 (Q)

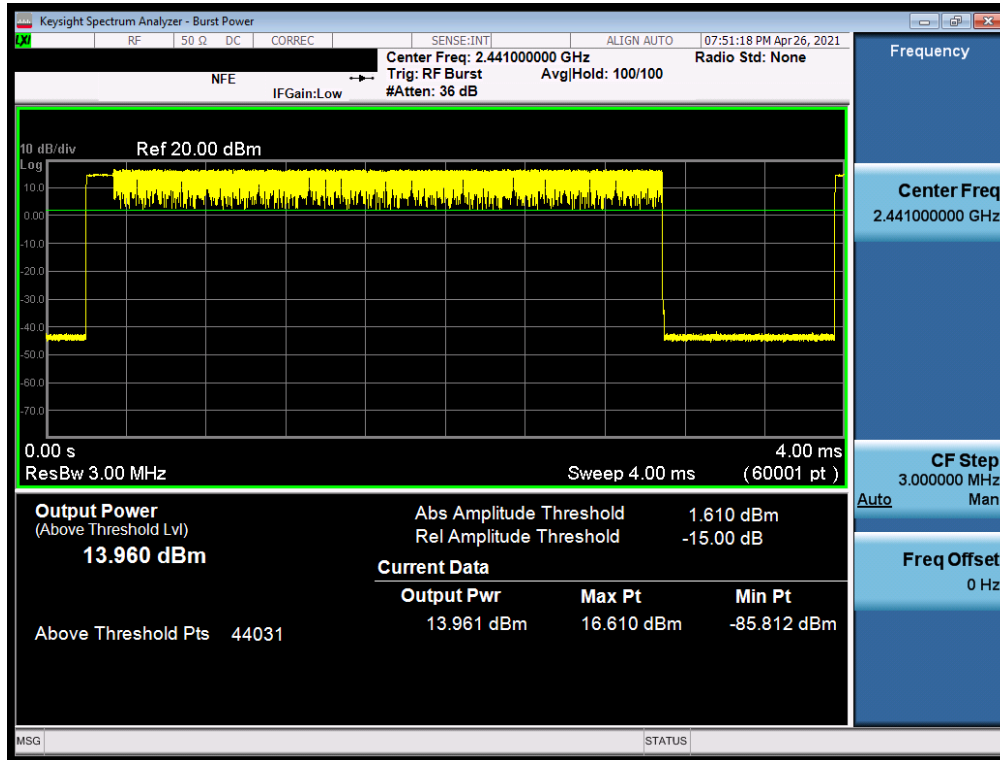


Plot 7-204. Average Conducted Power (1Mbps, iPA – Ch. 78) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 121 of 233

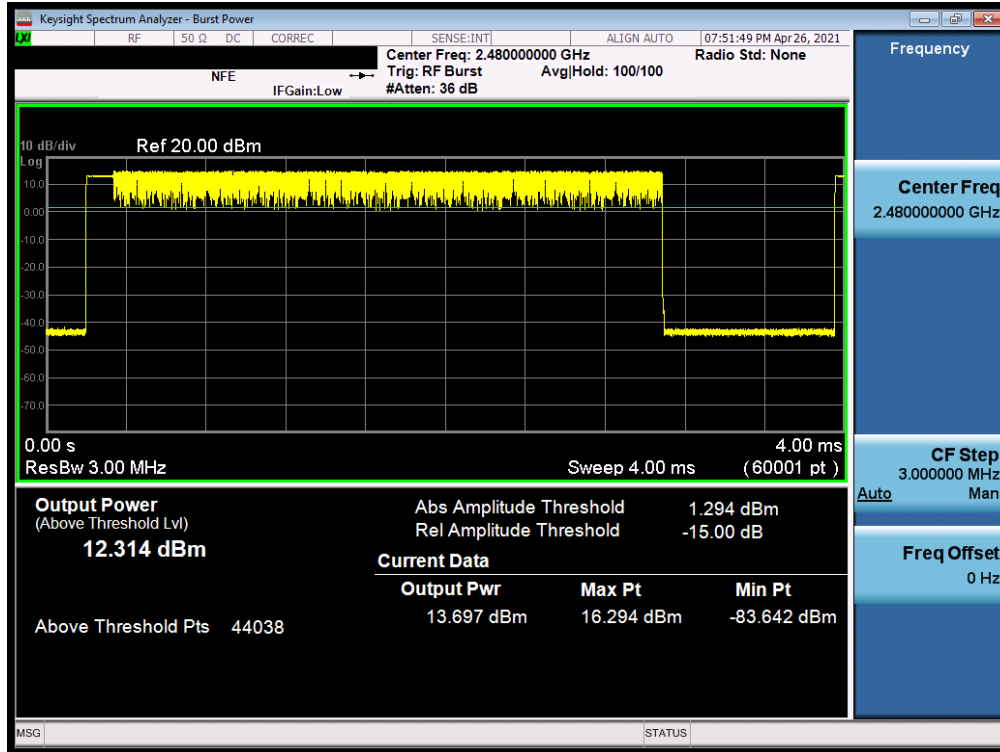


Plot 7-205. Average Conducted Power (2Mbps, ePA – Ch. 0) – ANT1 (Q)

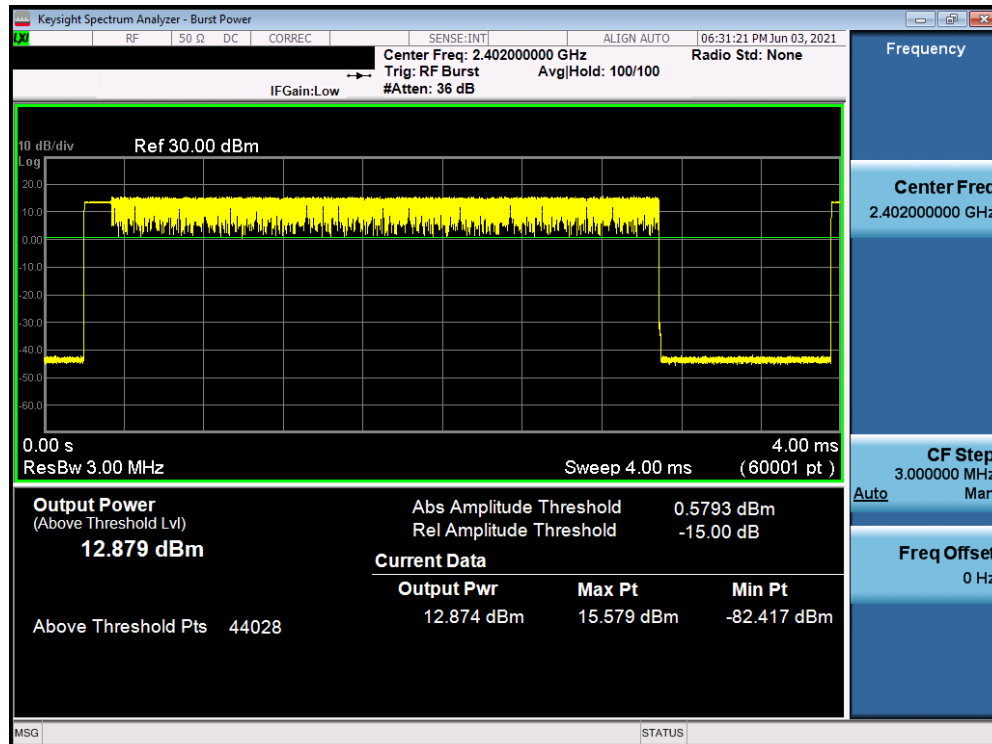


Plot 7-206. Average Conducted Power (2Mbps, ePA – Ch. 39) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 122 of 233

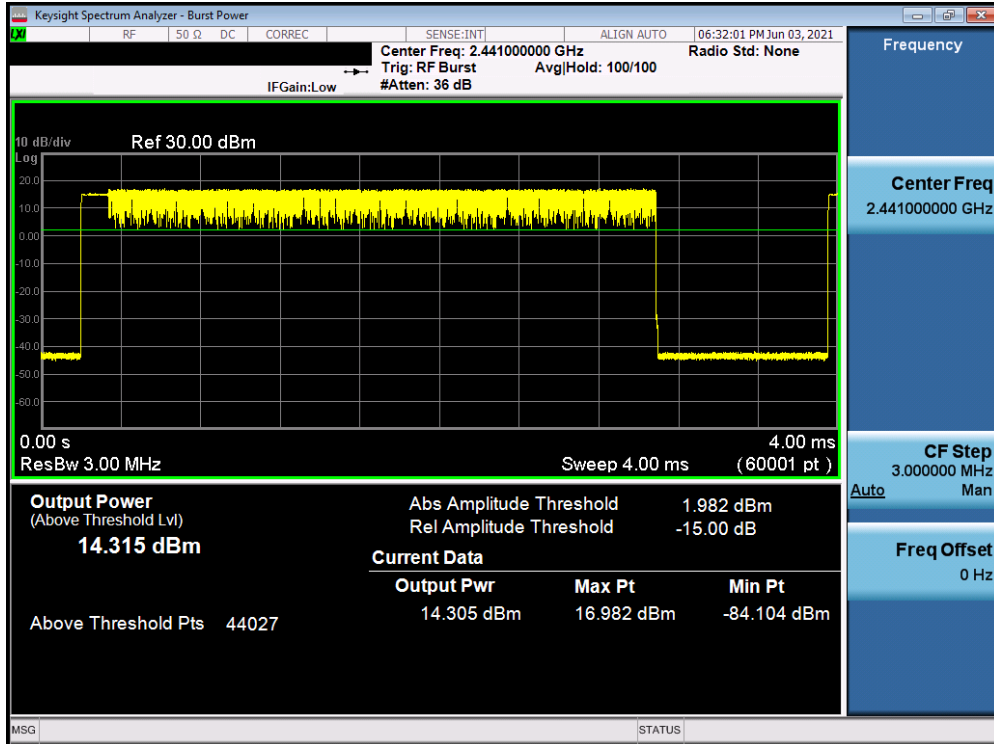


Plot 7-207. Average Conducted Power (2Mbps, ePA – Ch. 78) – ANT1 (Q)

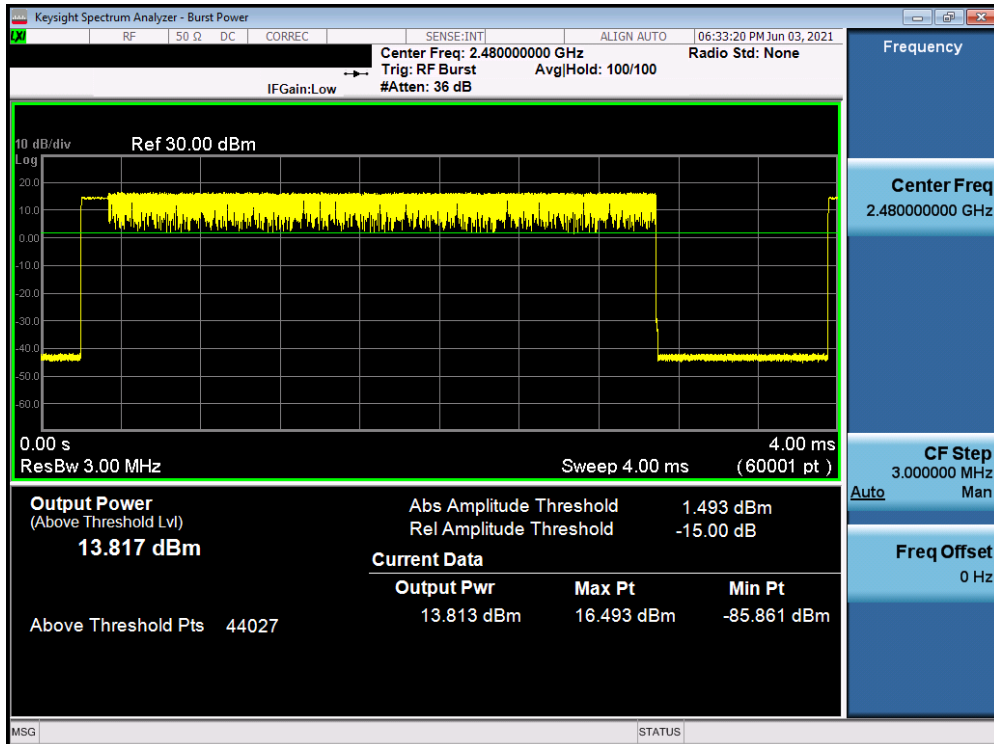


Plot 7-208. Average Conducted Power (2Mbps, iPA – Ch. 0) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 123 of 233



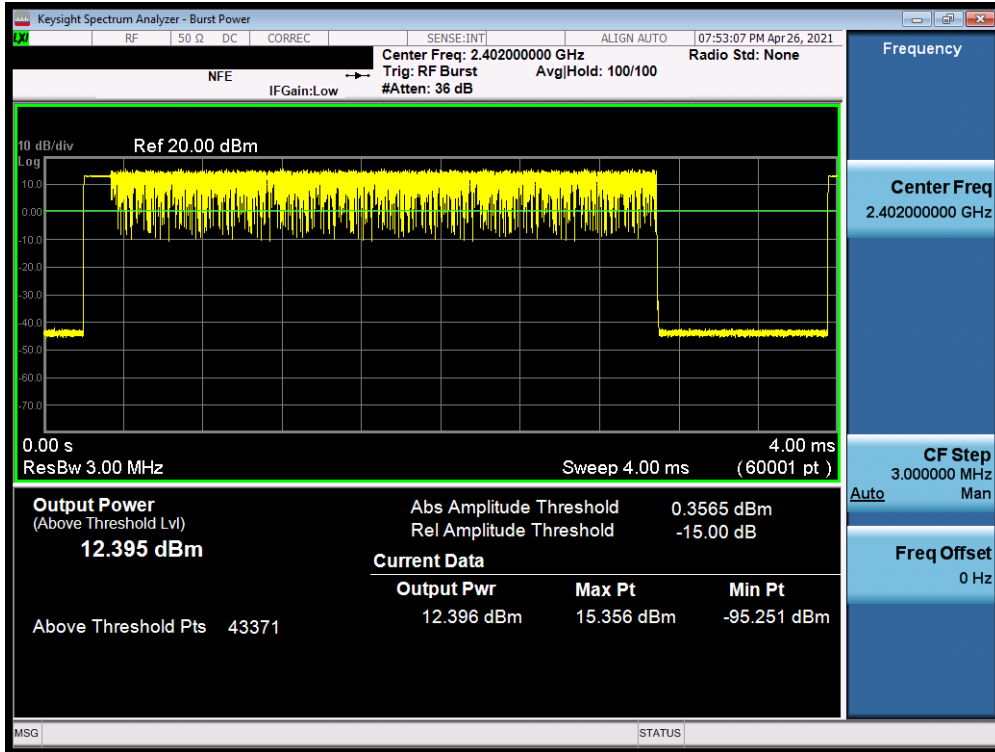
Plot 7-209. Average Conducted Power (2Mbps, iPA – Ch. 39) – ANT1 (Q)



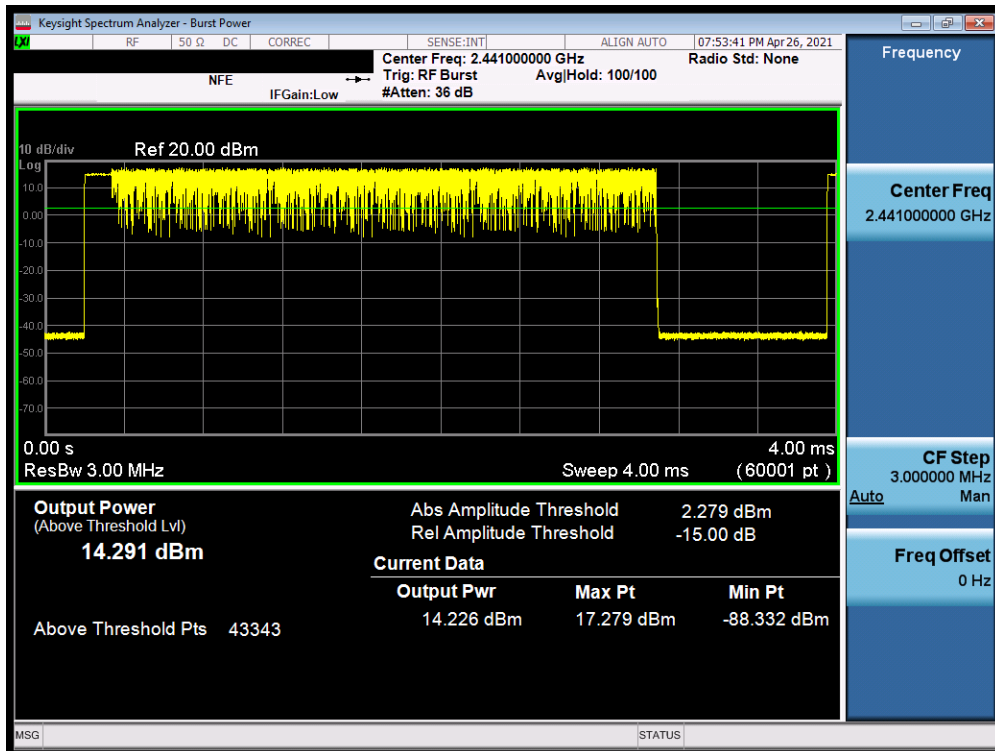
Plot 7-210. Average Conducted Power (2Mbps, iPA – Ch. 78) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 124 of 233



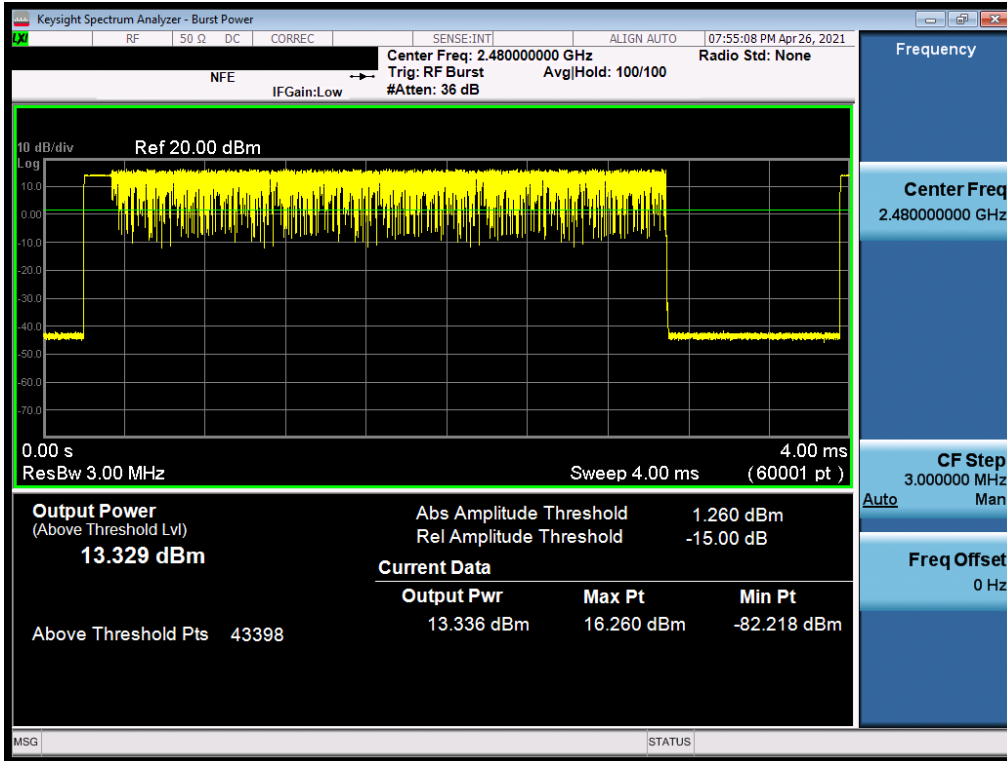


Plot 7-211. Average Conducted Power (3Mbps, ePA – Ch. 0) – ANT1 (Q)

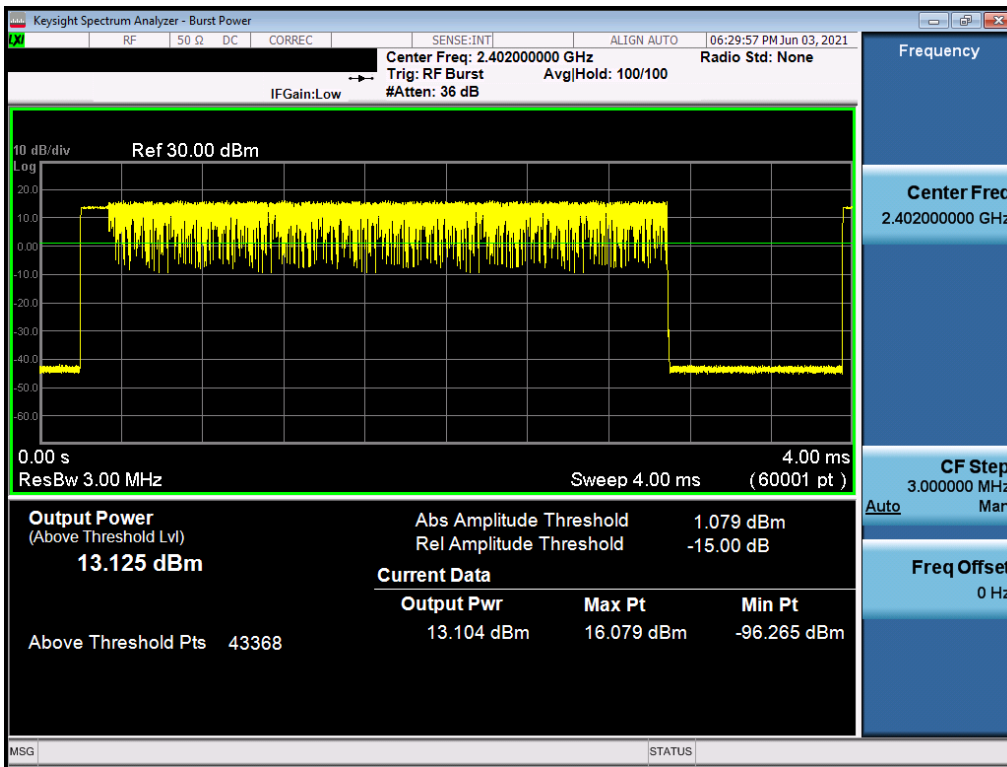


Plot 7-212. Average Conducted Power (3Mbps, ePA – Ch. 39) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 125 of 233

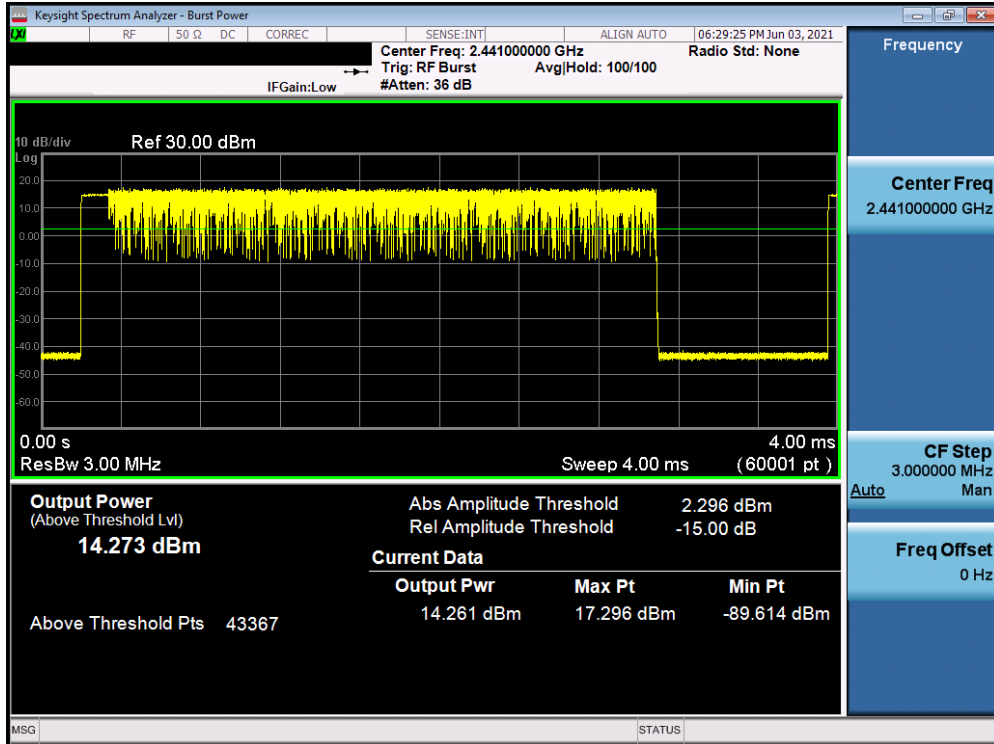


Plot 7-213. Average Conducted Power (3Mbps, ePA – Ch. 78) – ANT1 (Q)

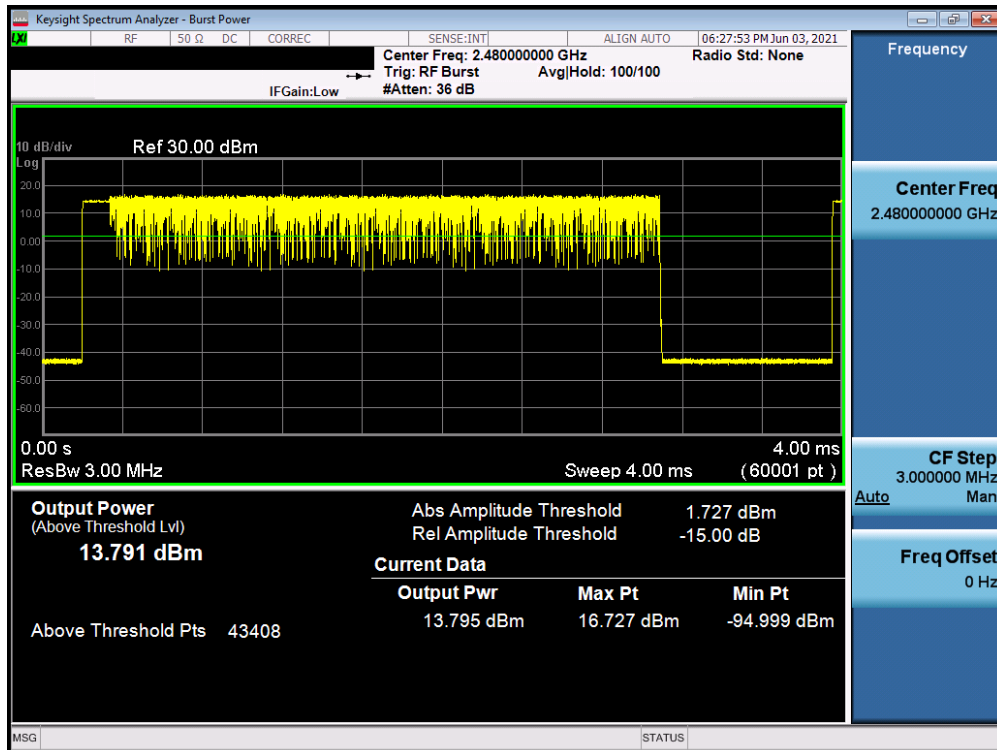


Plot 7-214. Average Conducted Power (3Mbps, iPA – Ch. 0) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 126 of 233



Plot 7-215. Average Conducted Power (3Mbps, iPA – Ch. 39) – ANT1 (Q)



Plot 7-216. Average Conducted Power (3Mbps, iPA – Ch. 78) – ANT1 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 127 of 233

## 7.4 Band Edge Compliance

**§15.247 (d); RSS-247 [5.5]**

### Test Overview and Limits

EUT operates in hopping and non-hopping transmission mode. Measurement is taken at the highest point located outside of the emission bandwidth. **The maximum permissible out-of-band emission level is 20 dBc.**

### Test Procedure Used

ANSI C63.10-2013 – Section 6.10.4

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 300kHz
5. Detector = Peak
6. Number of sweep points  $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

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

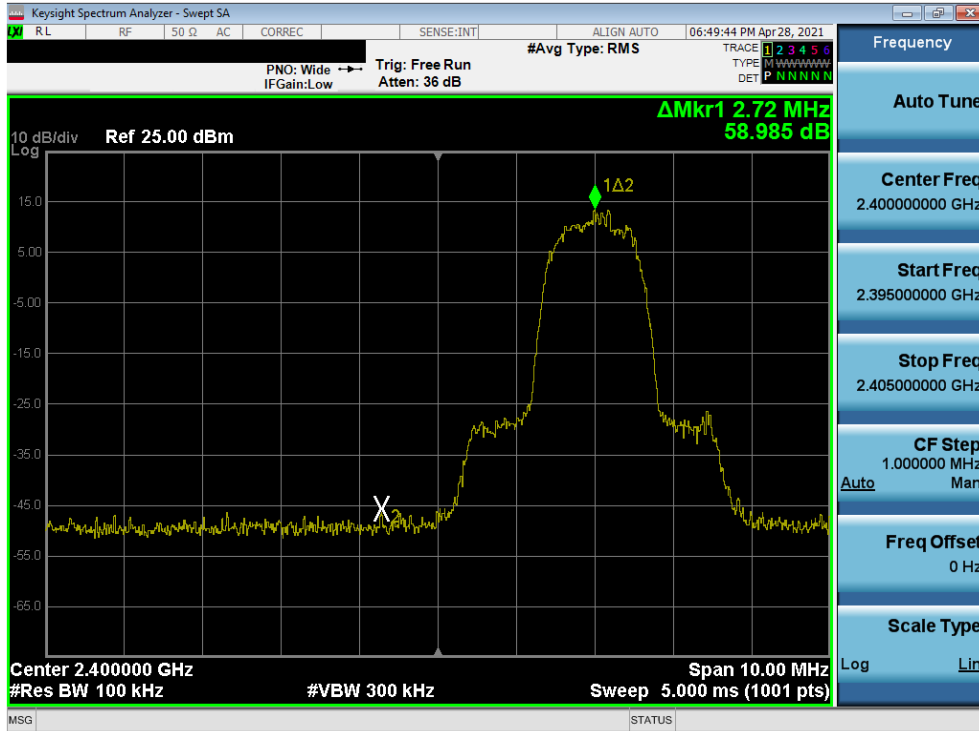


**Figure 7-3. Test Instrument & Measurement Setup**

FCC ID: A3LSMF711B	 PCTEST <sup>®</sup> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 128 of 233

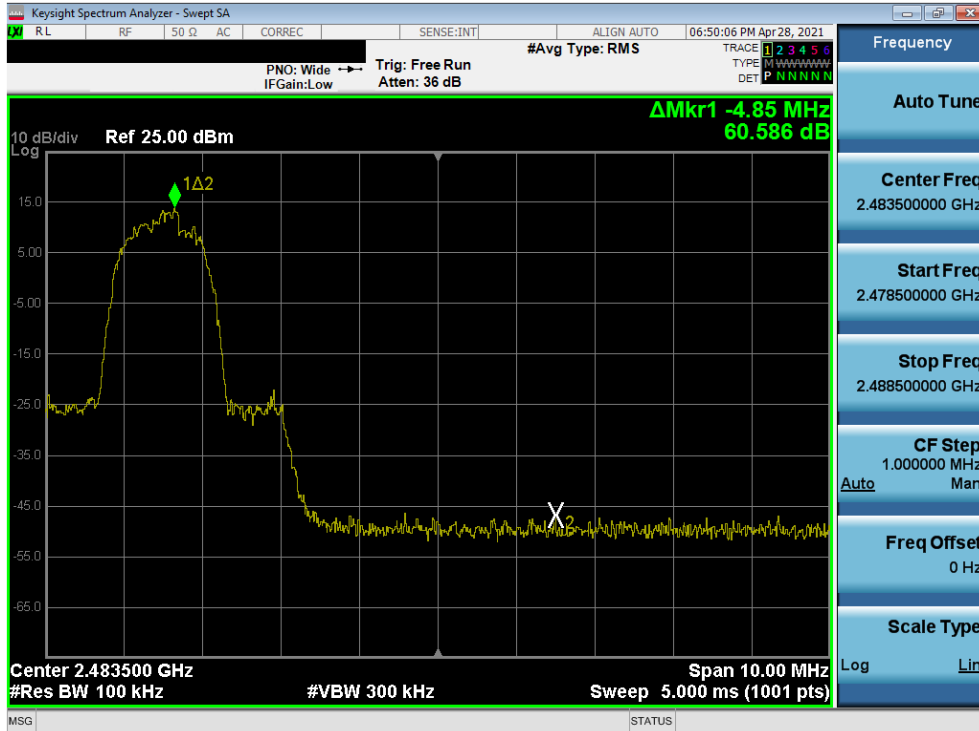
### Test Notes

1. Out of band conducted spurious emissions at the band edge were investigated for all data rates in hopping and non-hopping modes. The worst case emissions were found with the EUT transmitting at 3 Mbps. Band edge emissions were also investigated with the EUT transmitting in all data rates. Plots of the worst case emissions are shown below.
2. This device will be manufactured using two different WIFI chipsets (N and Q). Both two chipsets are tested, and both conducted emissions data is shown in this report.

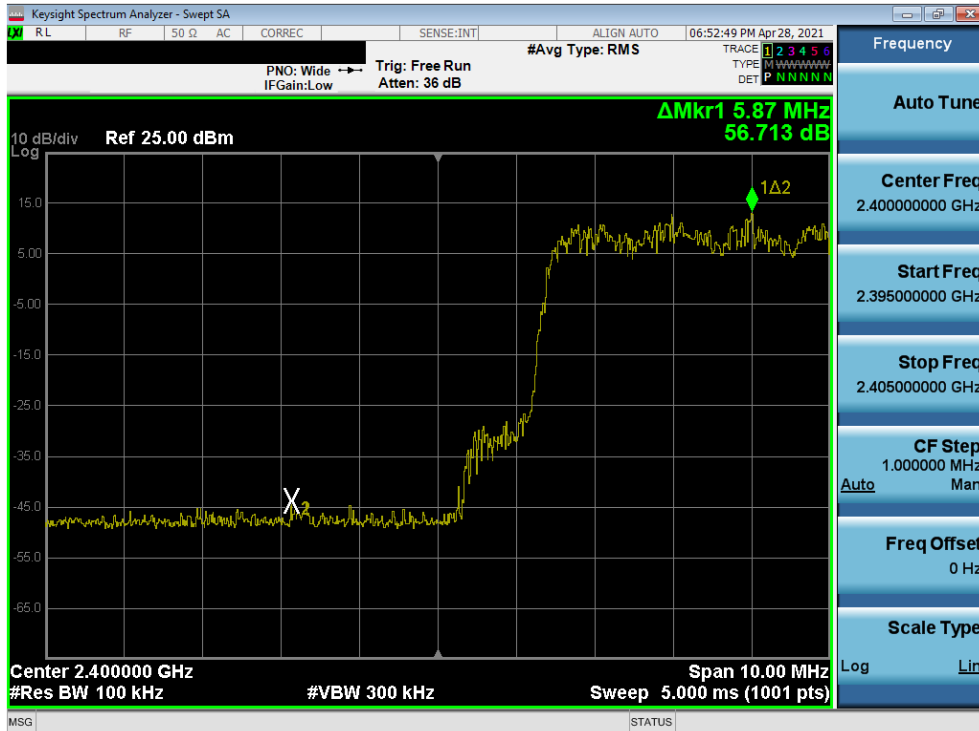


Plot 7-217. Band Edge Plot (Bluetooth with Hopping Disabled, ePA, 3 Mbps – Ch. 0) – ANT0 (N)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 129 of 233

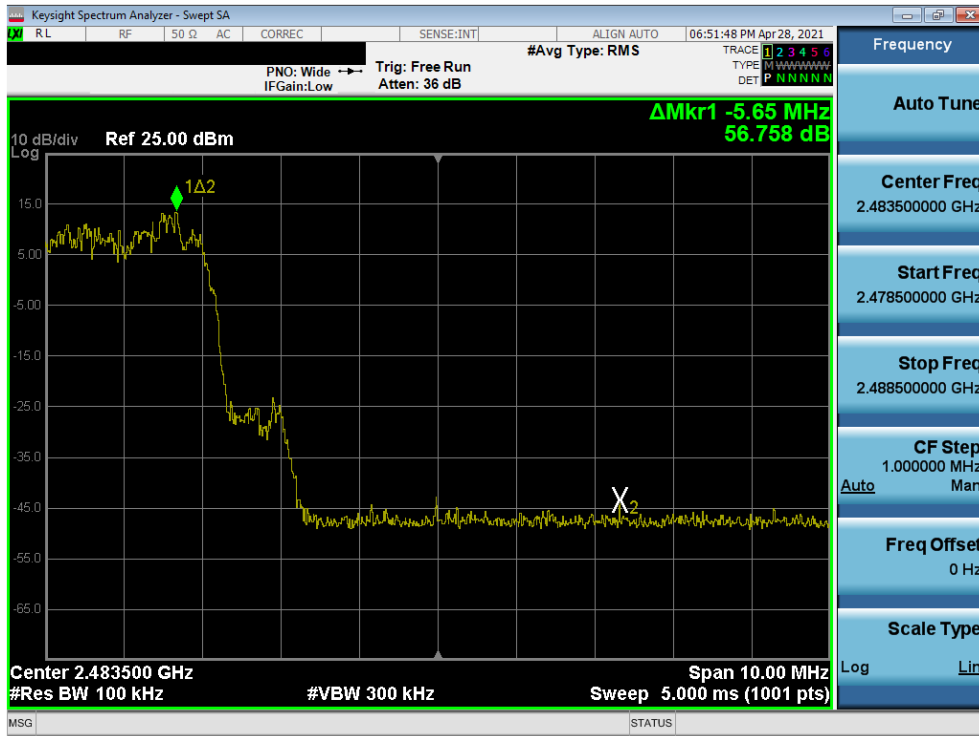


Plot 7-218. Band Edge Plot (Bluetooth with Hopping Disabled, ePA, 3 Mbps – Ch. 78) – ANT0 (N)

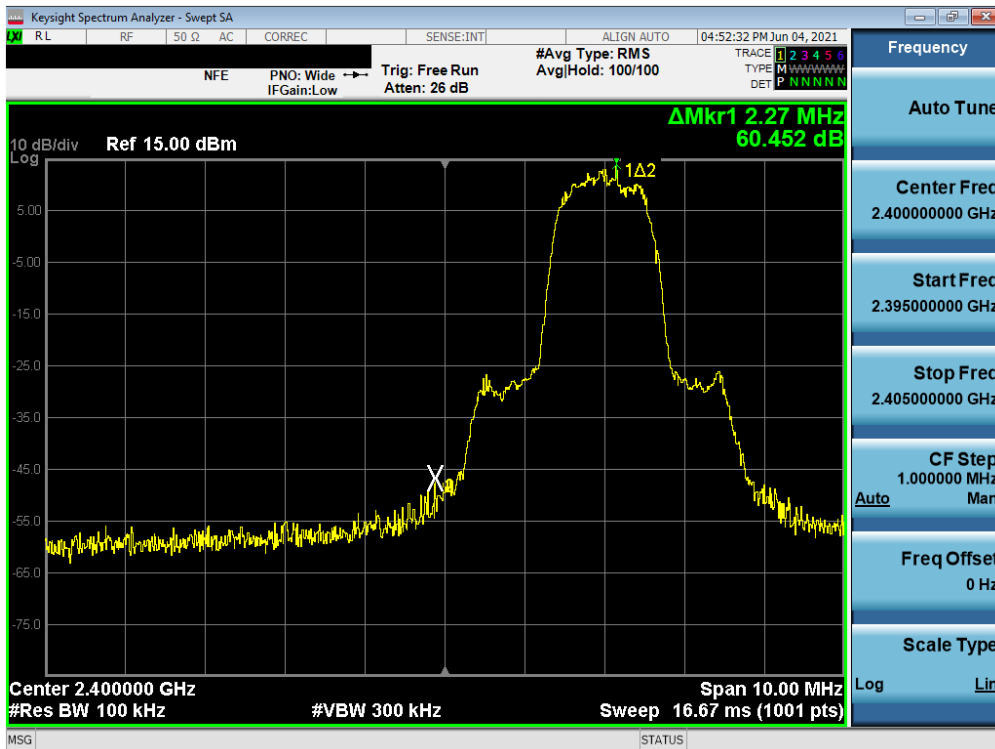


Plot 7-219. Band Edge Plot (Bluetooth with Hopping Enabled, ePA, 3 Mbps – Ch. 0) – ANT0 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 130 of 233

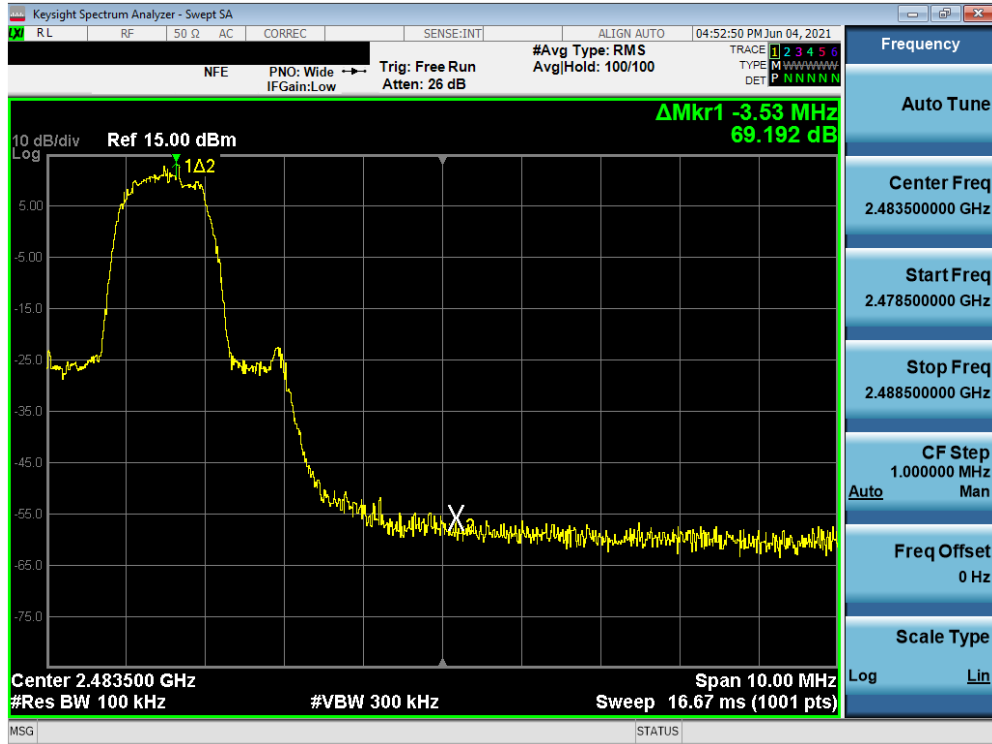


Plot 7-220. Band Edge Plot (Bluetooth with Hopping Enabled, ePA, 3 Mbps – Ch. 78) – ANT0 (N)



Plot 7-221. Band Edge Plot (Bluetooth with Hopping Disabled, iPA, 3 Mbps – Ch. 0) – ANT0 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 131 of 233



Plot 7-222. Band Edge Plot (Bluetooth with Hopping Disabled, iPA, 3 Mbps – Ch. 78) – ANT0 (N)



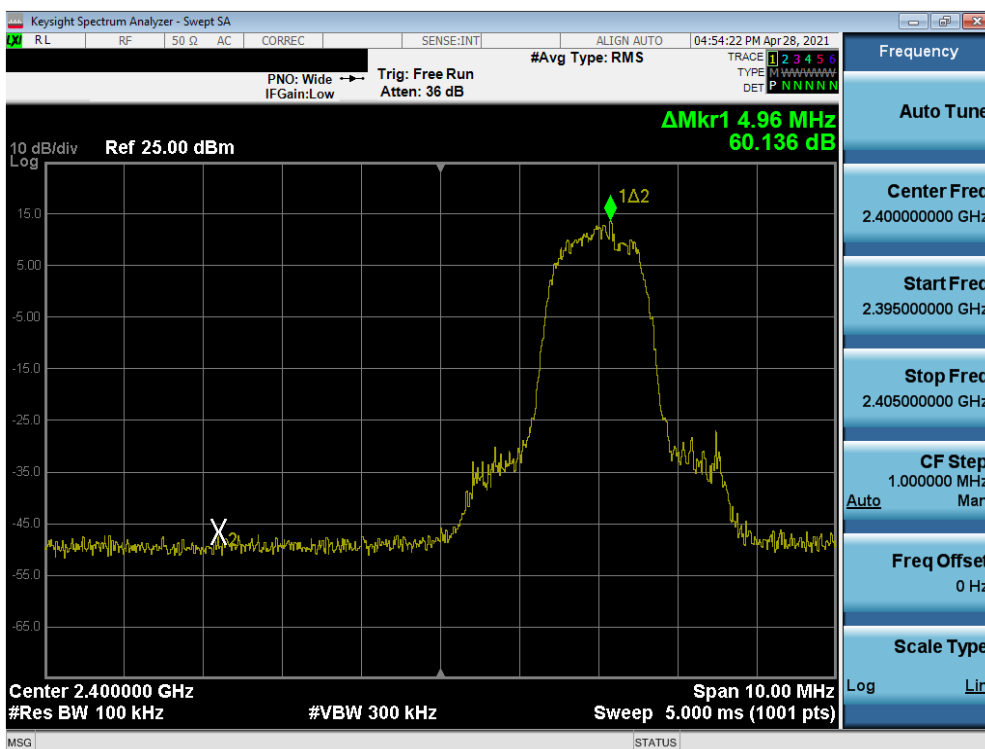
Plot 7-223. Band Edge Plot (Bluetooth with Hopping Enabled, iPA, 3 Mbps – Ch. 0) – ANT0 (N)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 132 of 233



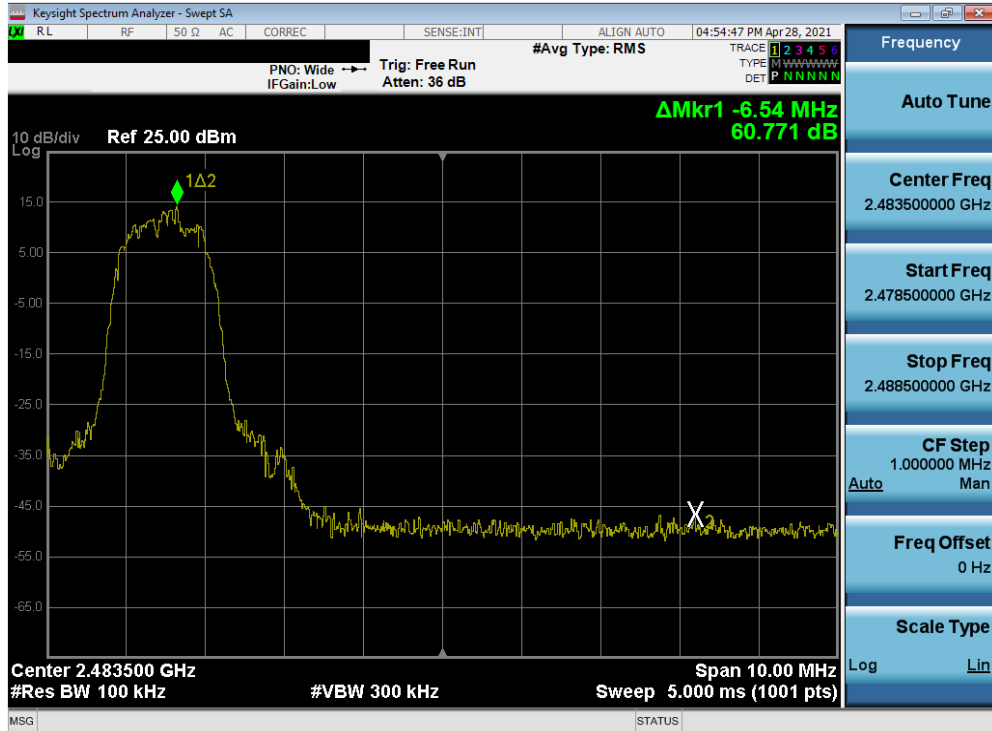


Plot 7-224. Band Edge Plot (Bluetooth with Hopping Enabled, iPA, 3 Mbps – Ch.78) – ANT0 (N)

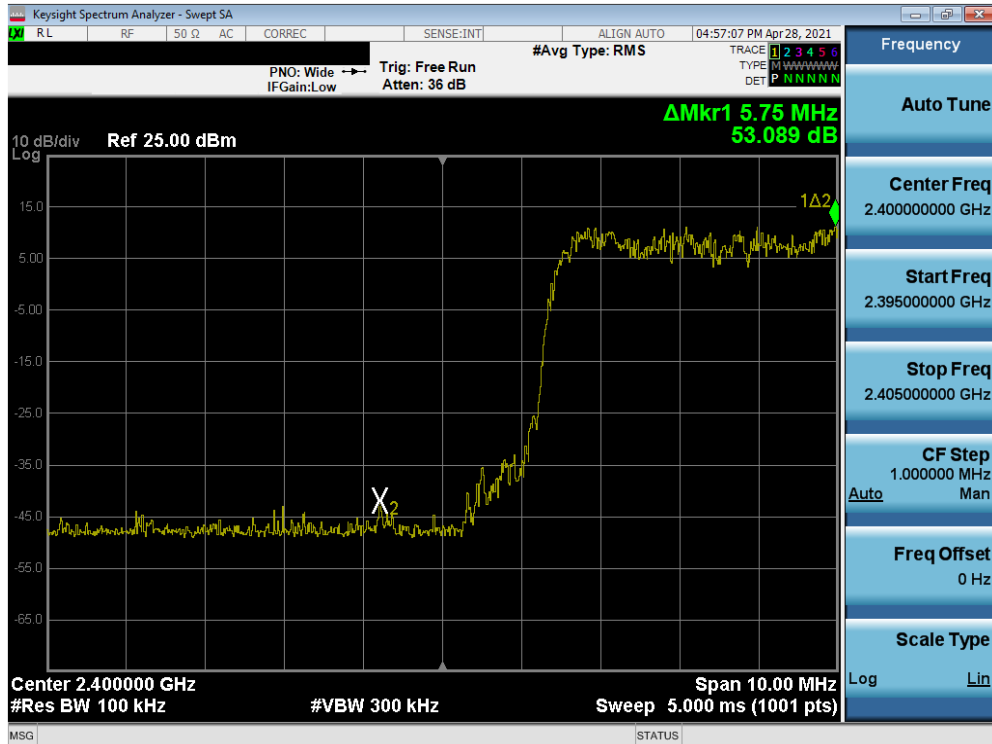


Plot 7-225. Band Edge Plot (Bluetooth with Hopping Disabled, ePA, 3 Mbps – Ch. 0) – ANT0 (Q)

FCC ID: A3LSMF711B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 133 of 233

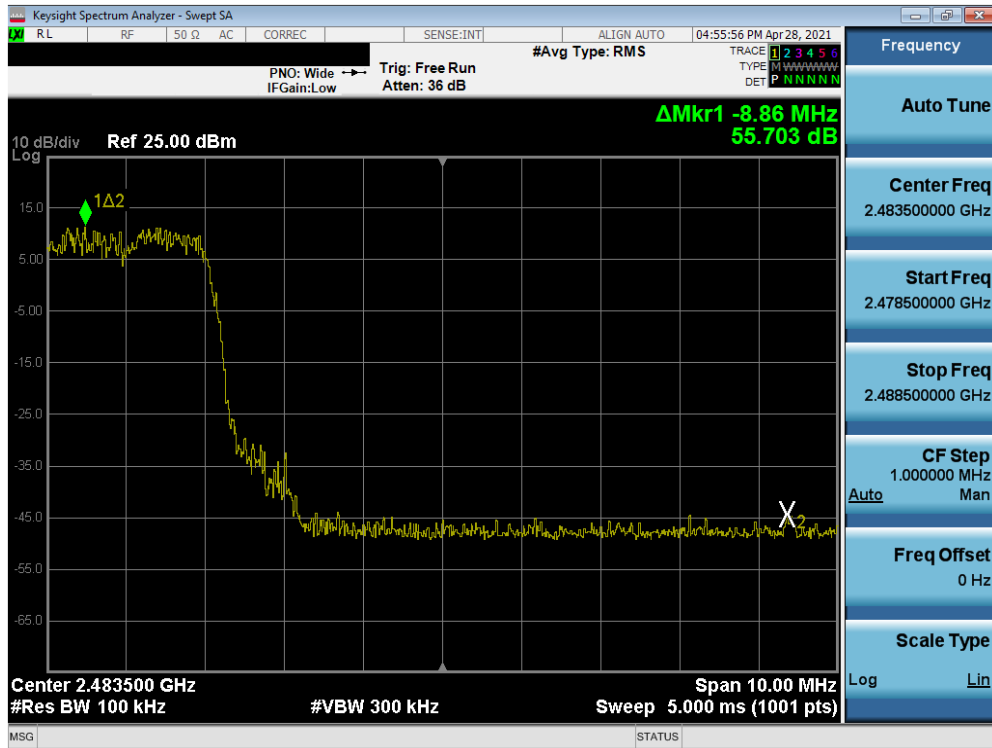


Plot 7-226. Band Edge Plot (Bluetooth with Hopping Disabled, ePA, 3 Mbps – Ch. 78) – ANT0 (Q)

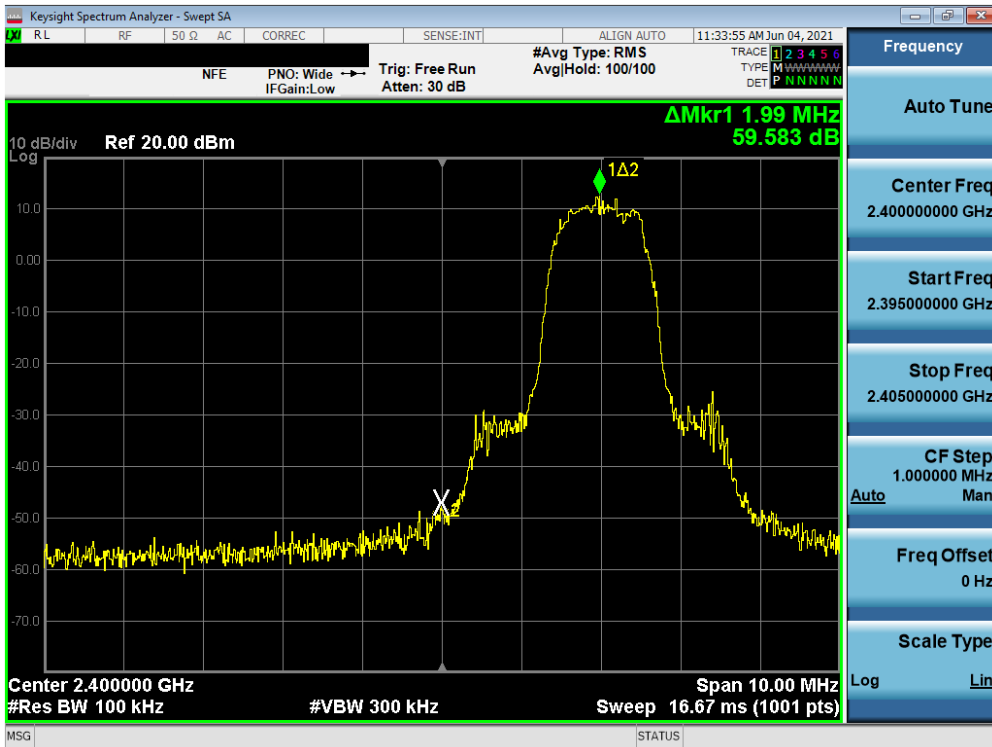


Plot 7-227. Band Edge Plot (Bluetooth with Hopping Enabled, ePA, 3 Mbps– Ch. 0) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 134 of 233

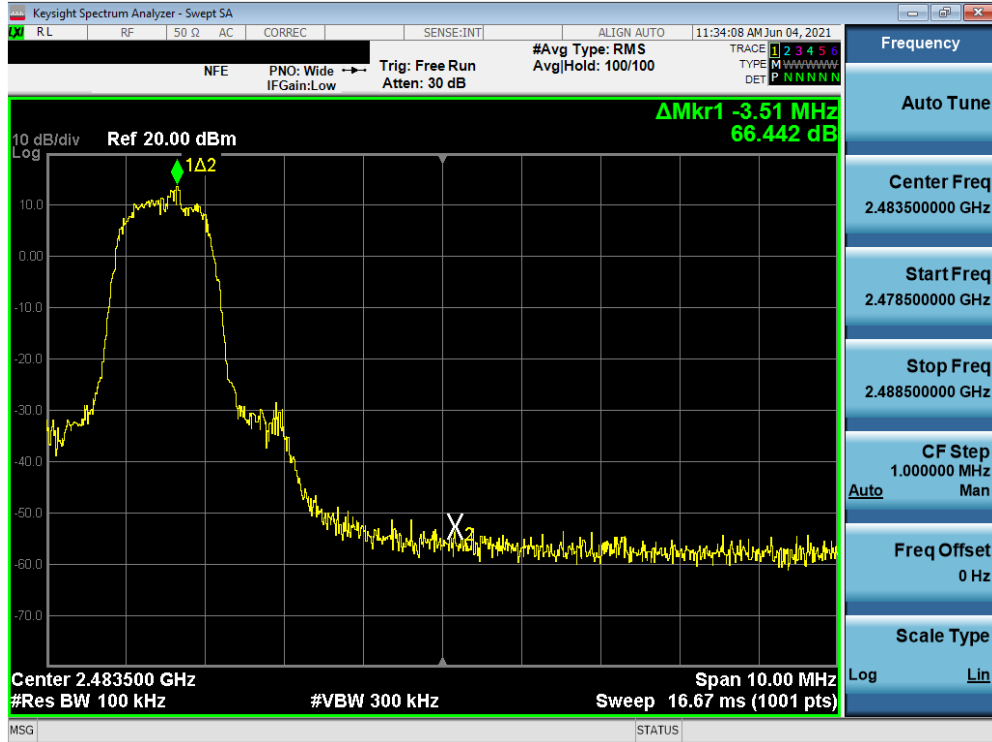


Plot 7-228. Band Edge Plot (Bluetooth with Hopping Enabled, ePA, 3 Mbps– Ch. 78) – ANT0 (Q)

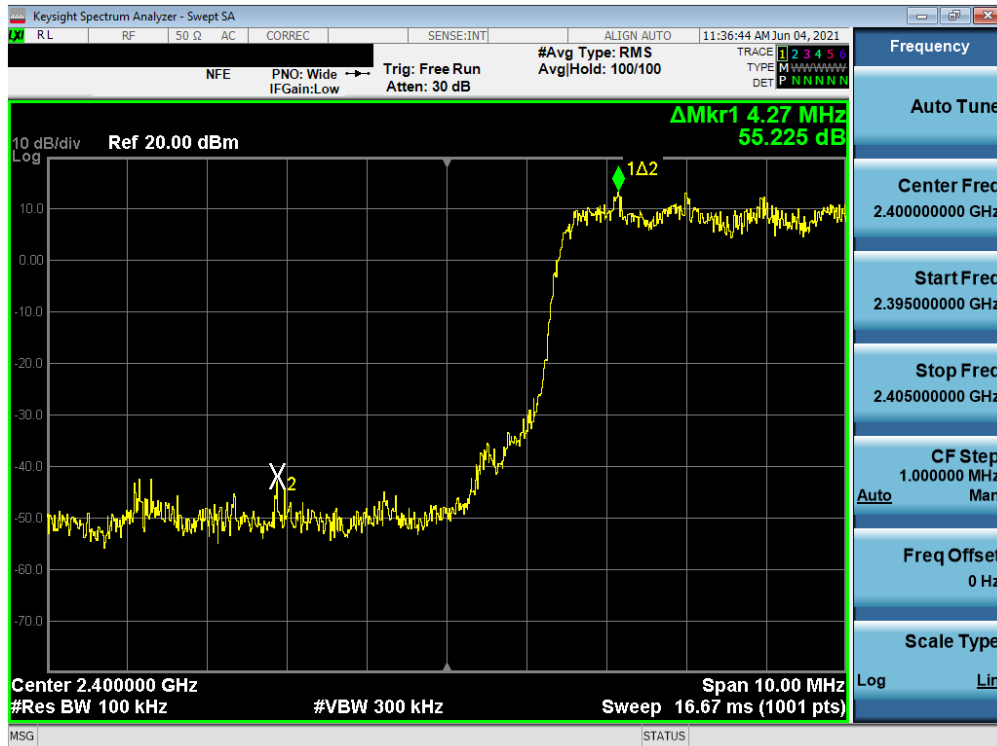


Plot 7-229. Band Edge Plot (Bluetooth with Hopping Disabled, iPA, 3 Mbps – Ch. 0) – ANT0 (Q)

FCC ID: A3LSMF711B	Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 135 of 233



Plot 7-230. Band Edge Plot (Bluetooth with Hopping Disabled, iPA, 3 Mbps – Ch. 78) – ANT0 (Q)



Plot 7-231. Band Edge Plot (Bluetooth with Hopping Enabled, iPA, 3 Mbps – Ch.0) – ANT0 (Q)

FCC ID: A3LSMF711B	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104130035-07.A3L	Test Dates: 04/12/2021 - 06/04/2021	EUT Type: Portable Handset		Page 136 of 233