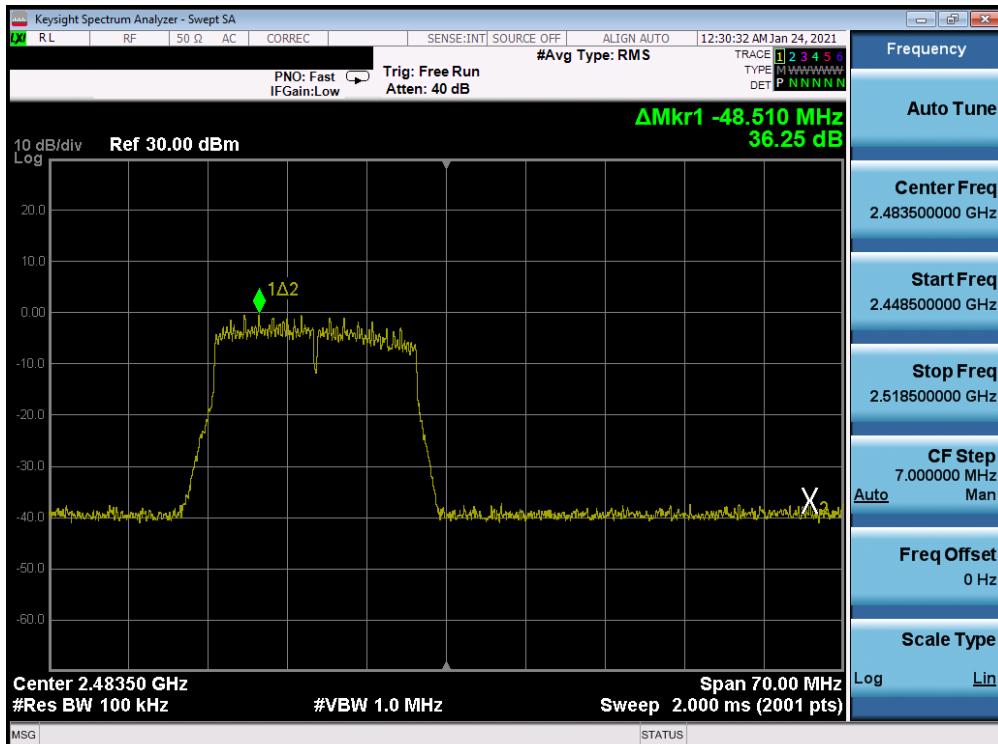
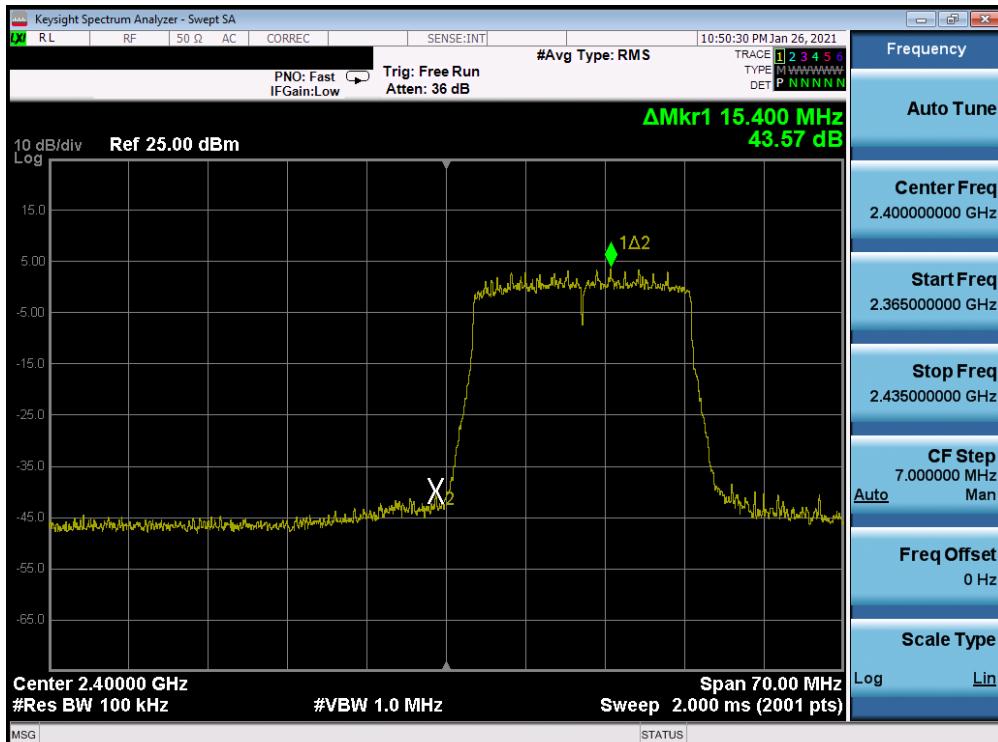


Plot 7-249. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 12) – MCS7

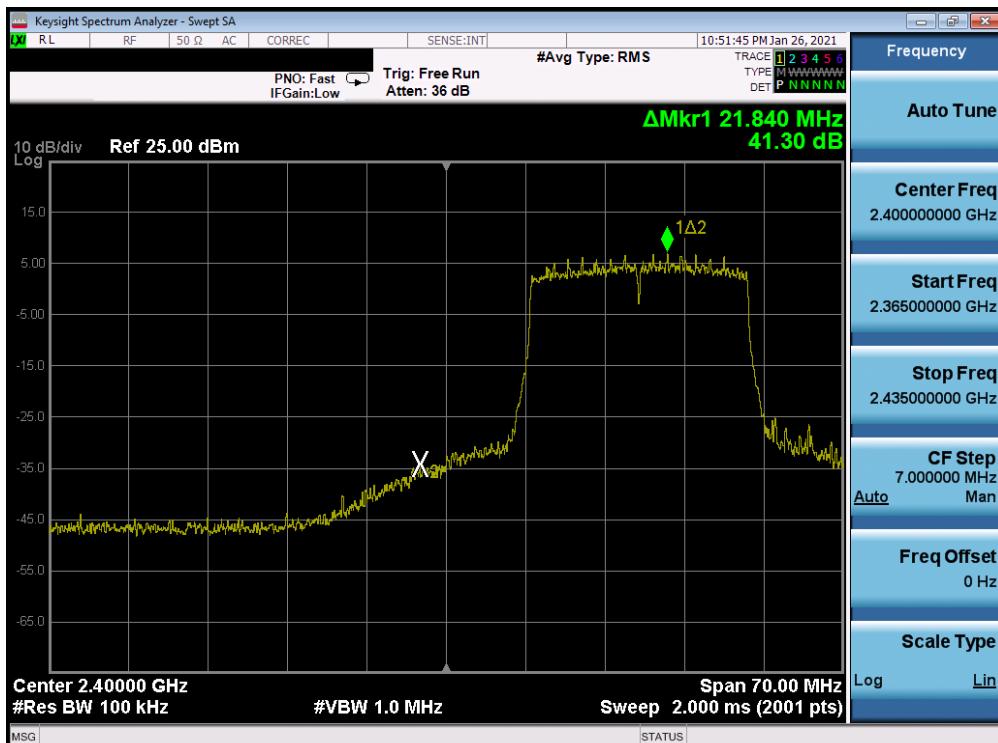


Plot 7-250. Band Edge Plot Antenna 4a (802.11n (2.4GHz) – Ch. 13) – MCS7

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 172 of 345

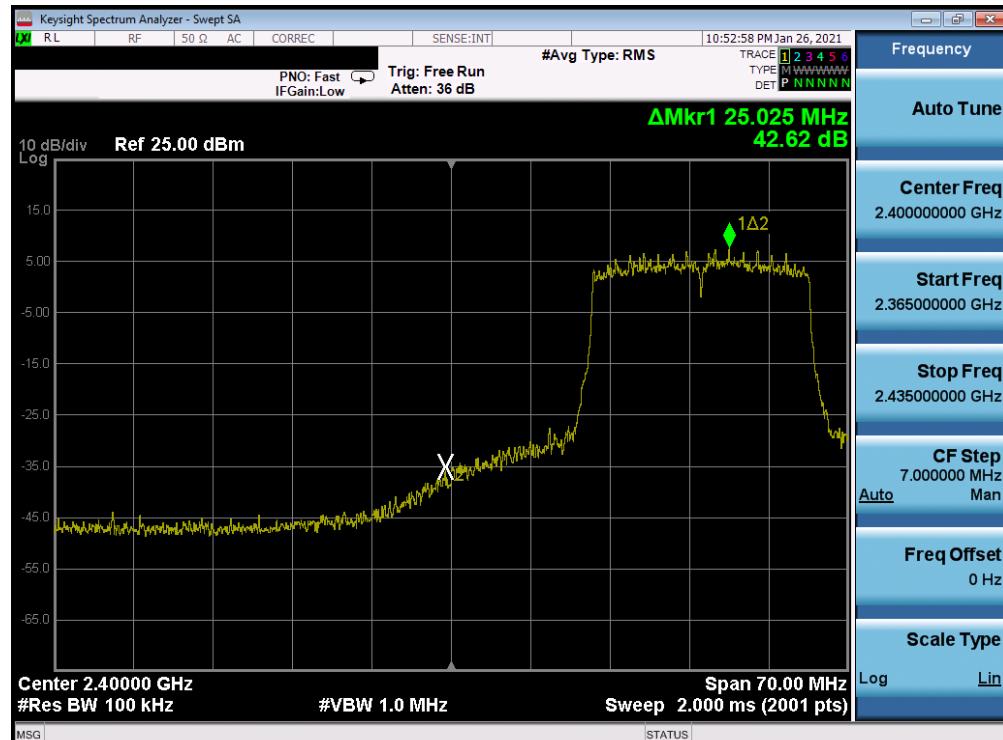


Plot 7-251. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

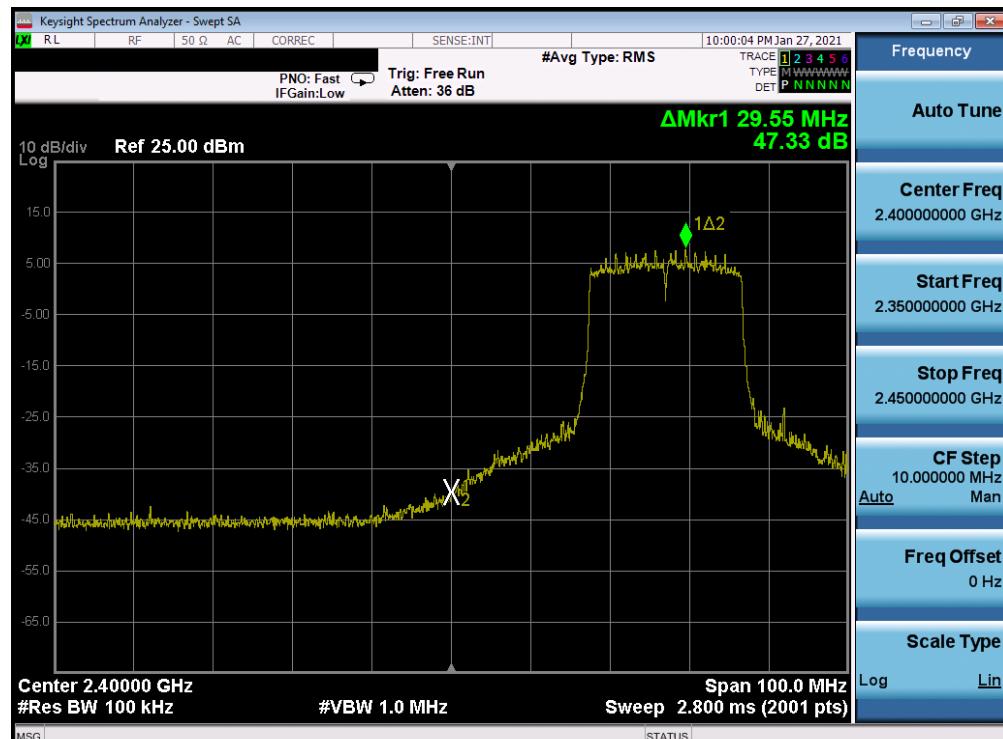


Plot 7-252. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 173 of 345

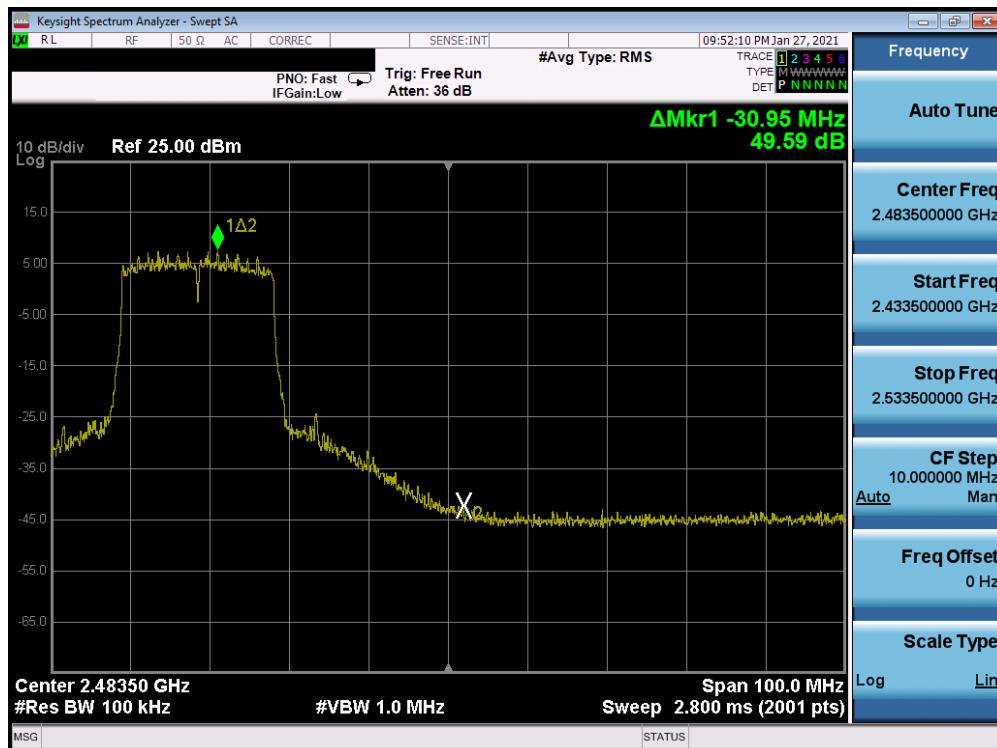


Plot 7-253. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS5

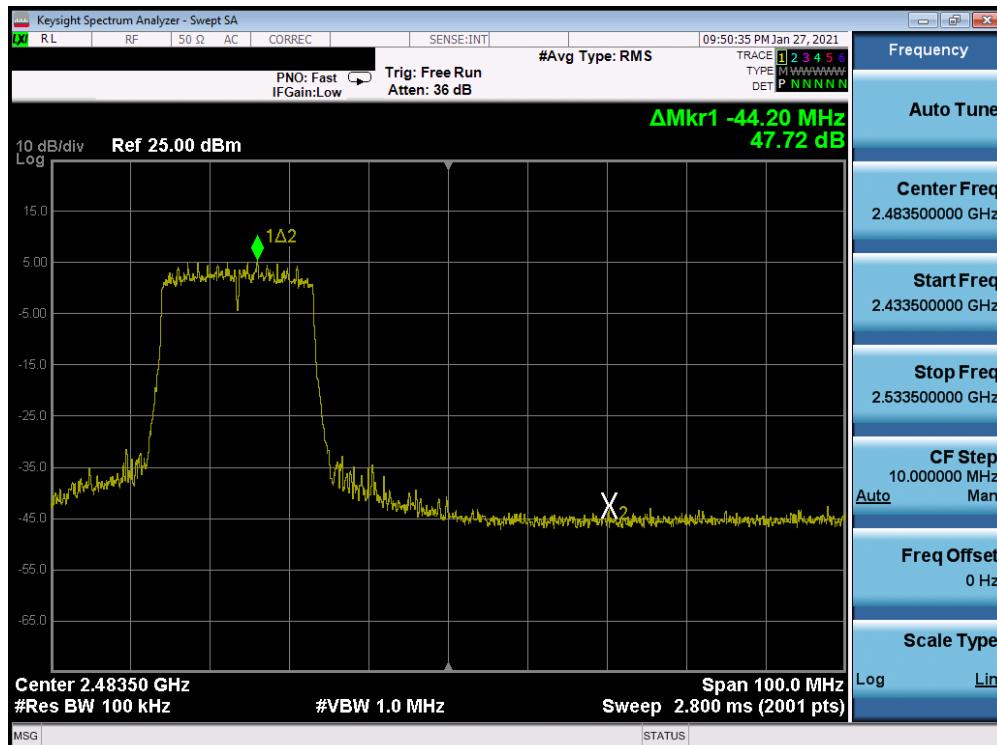


Plot 7-254. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 174 of 345	

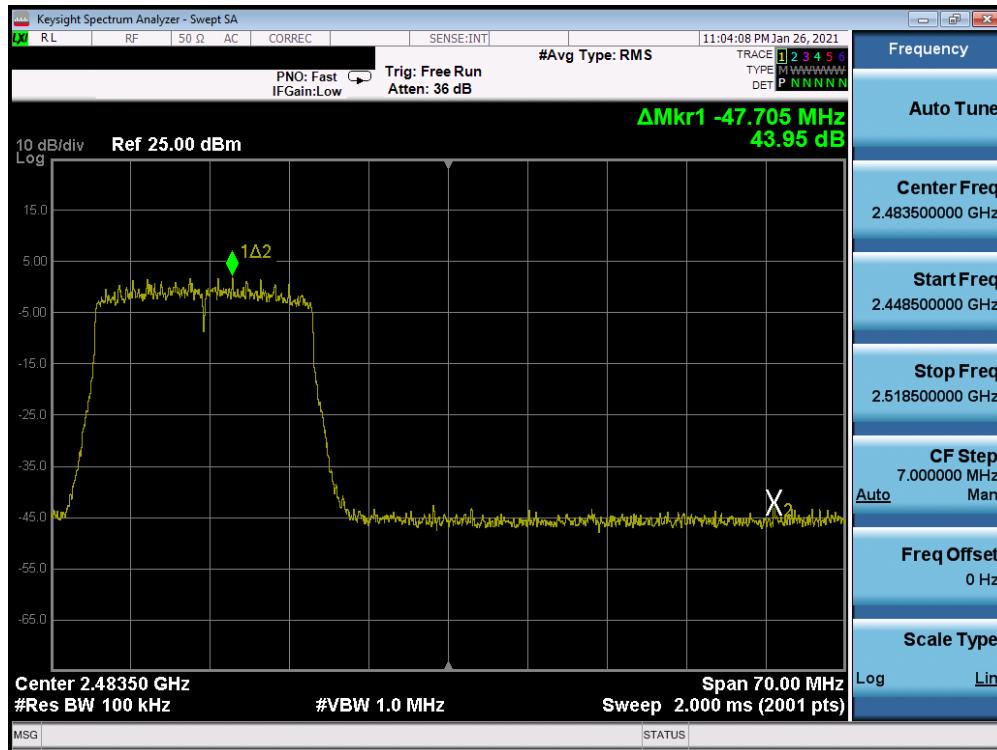


Plot 7-255. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS5

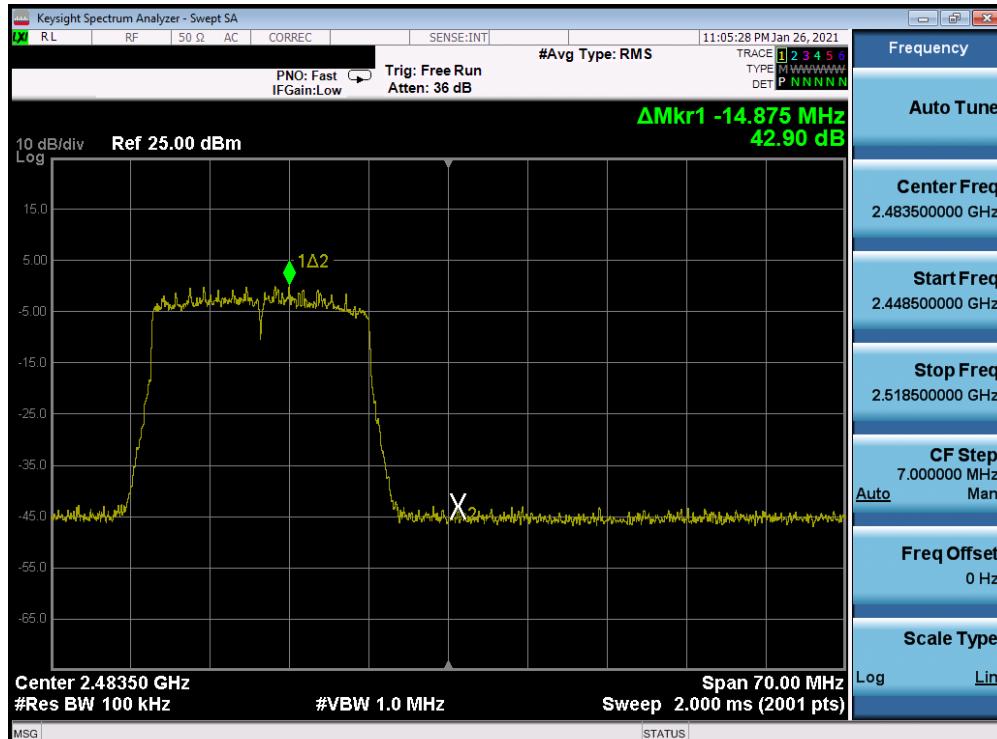


Plot 7-256. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 175 of 345	



Plot 7-257. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5

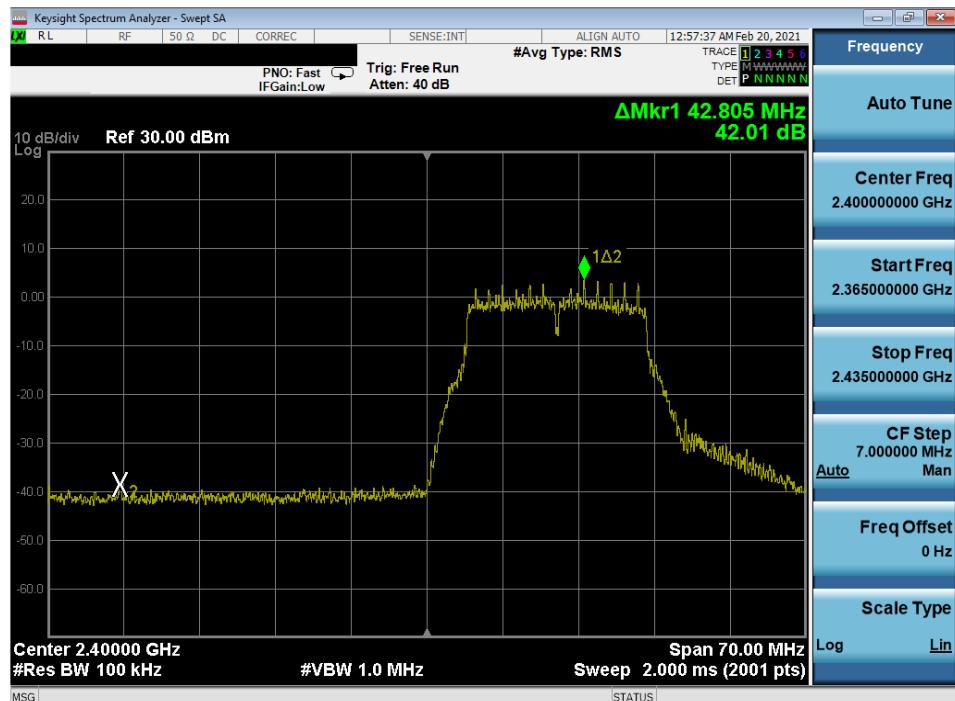


Plot 7-258. Band Edge Plot Antenna 4a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS5

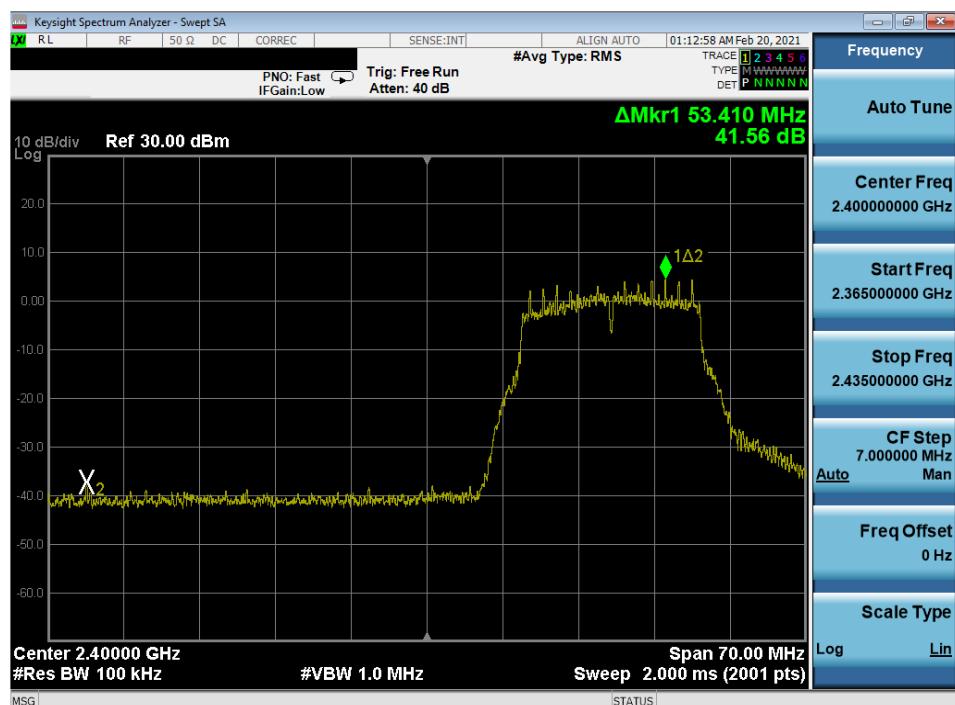
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 176 of 345

Antenna 2a Conducted Emissions at the Band Edge

Low Data Rate

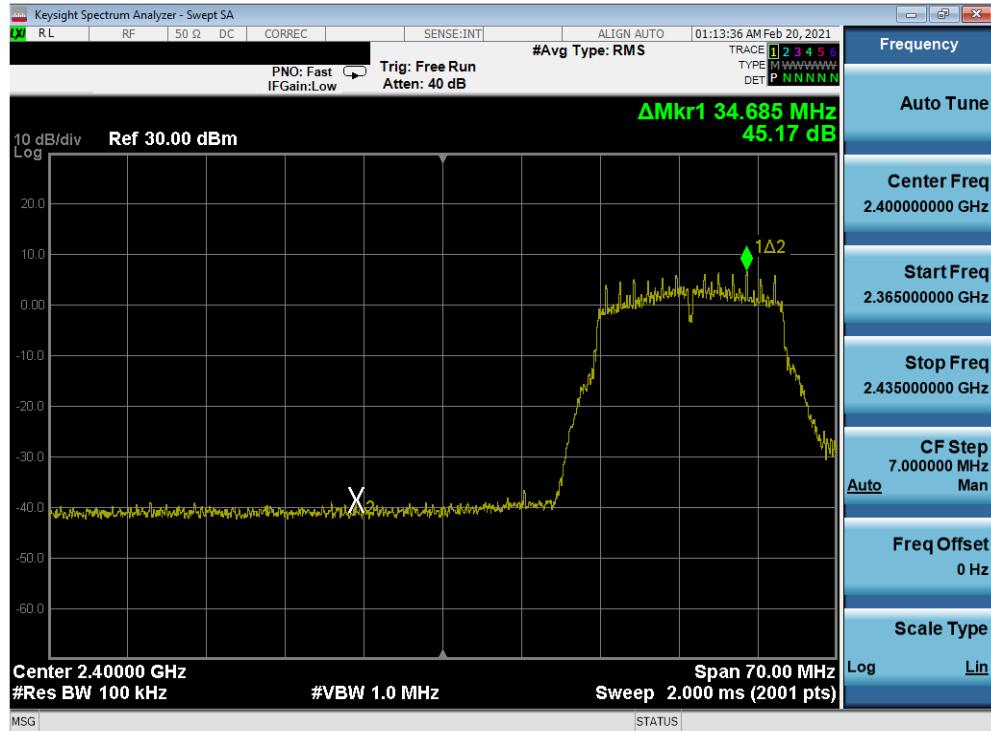


Plot 7-259. Band Edge Plot Antenna 2a (802.11g- Ch. 1) – 6Mbps

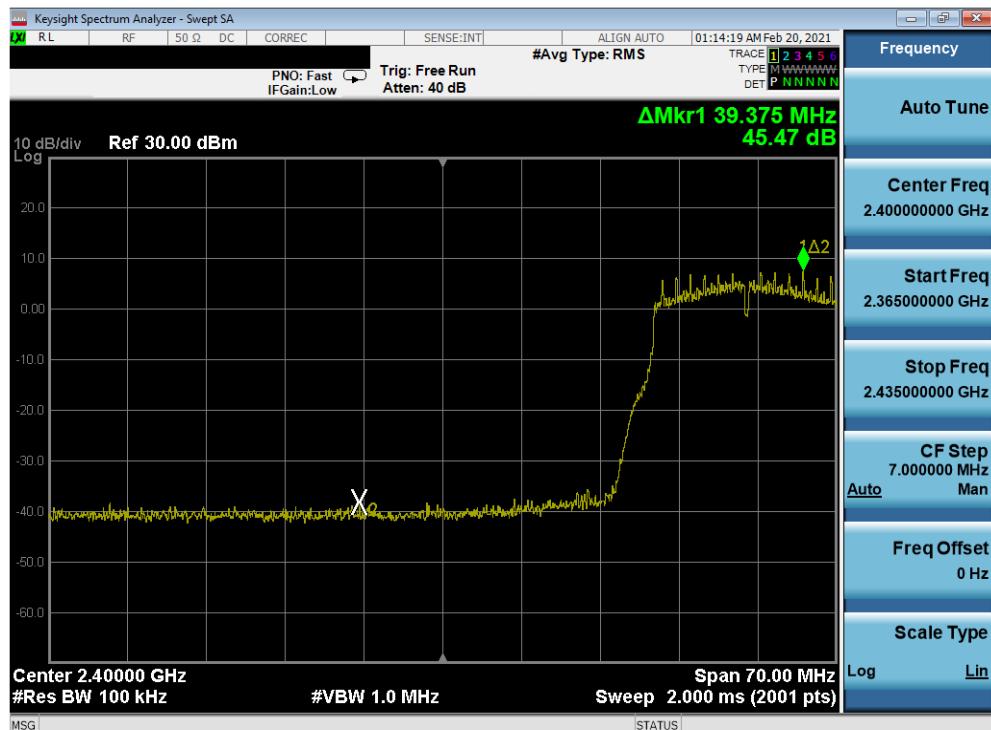


Plot 7-260. Band Edge Plot Antenna 2a (802.11g- Ch. 2) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 177 of 345	

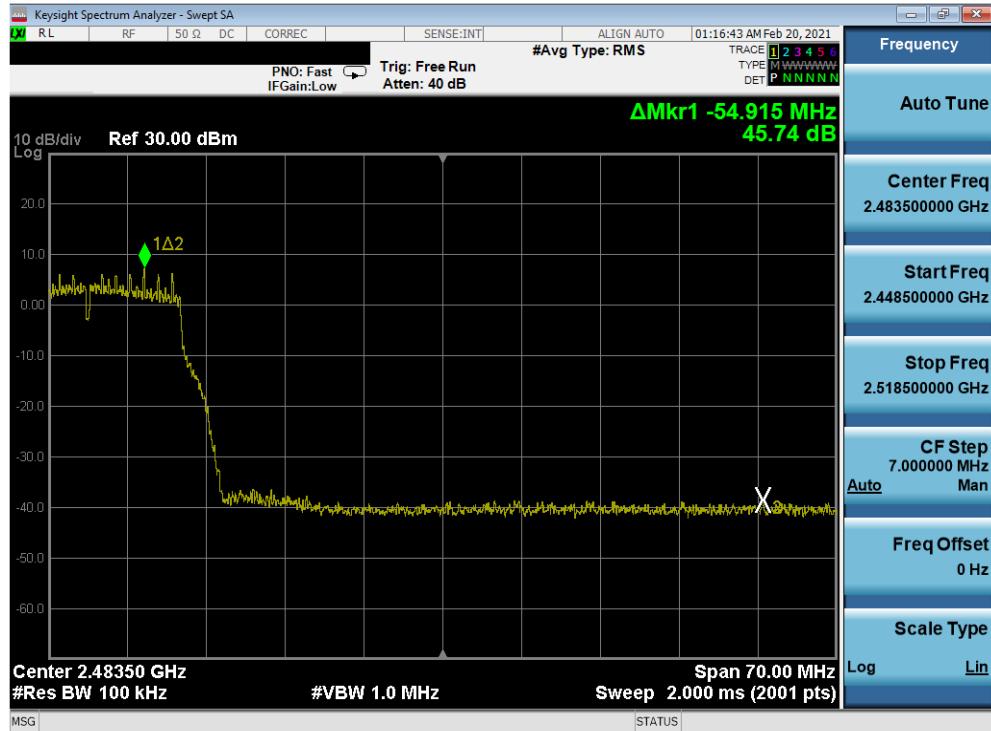


Plot 7-261. Band Edge Plot Antenna 2a (802.11g– Ch. 3) – 6Mbps

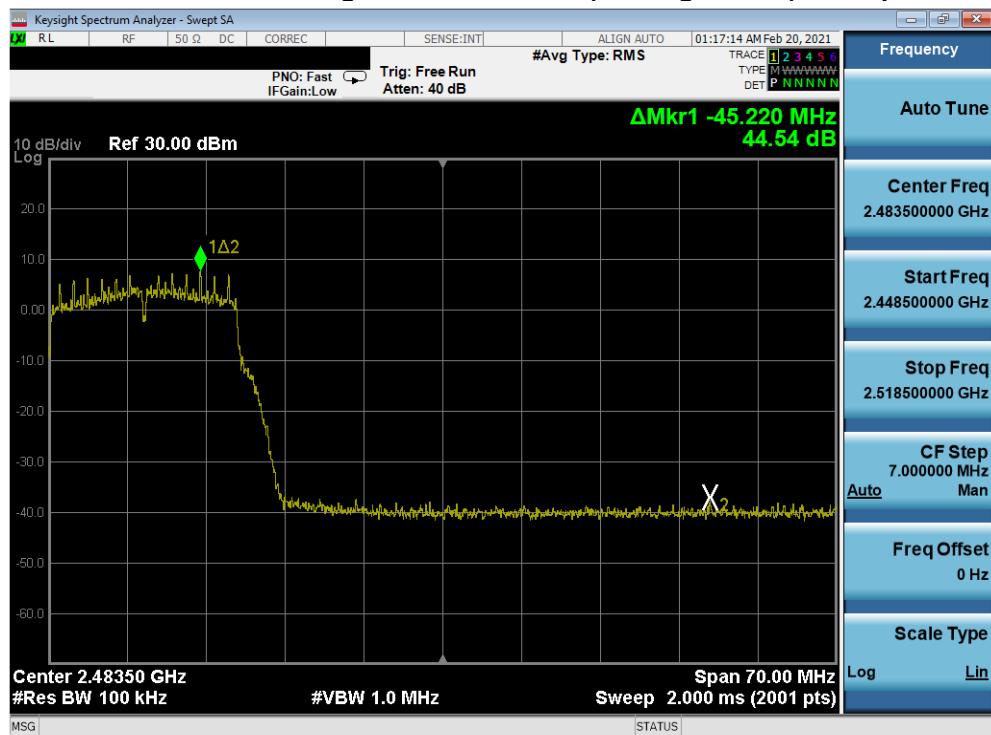


Plot 7-262. Band Edge Plot Antenna 2a (802.11g– Ch. 4) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 178 of 345	

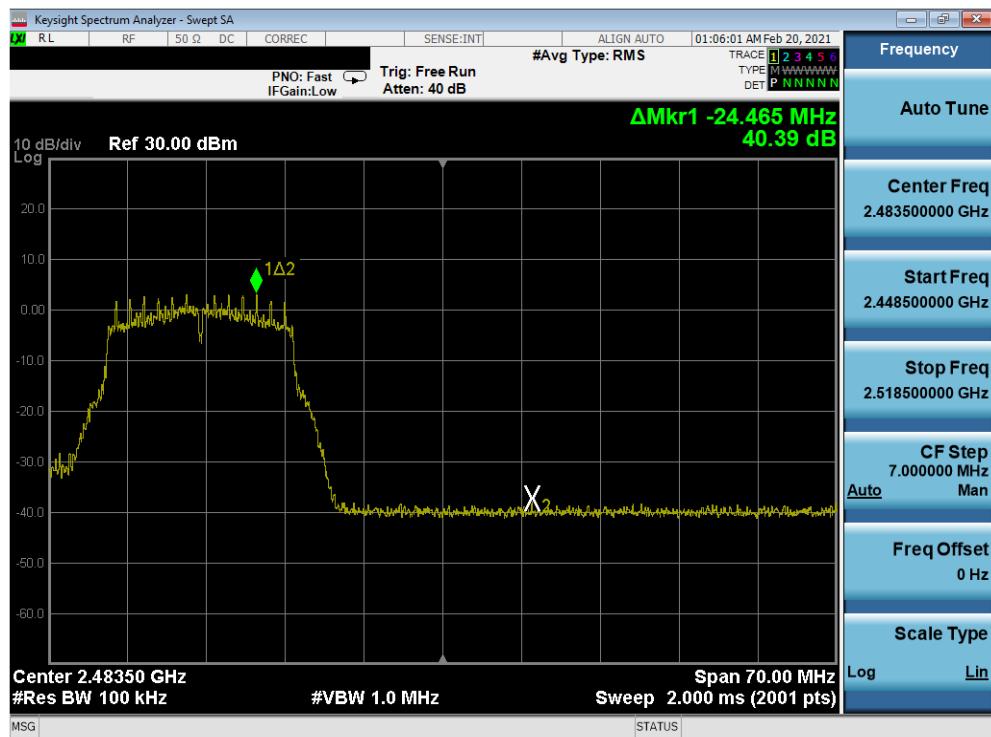


Plot 7-263. Band Edge Plot Antenna 2a (802.11g – Ch. 9) – 6Mbps

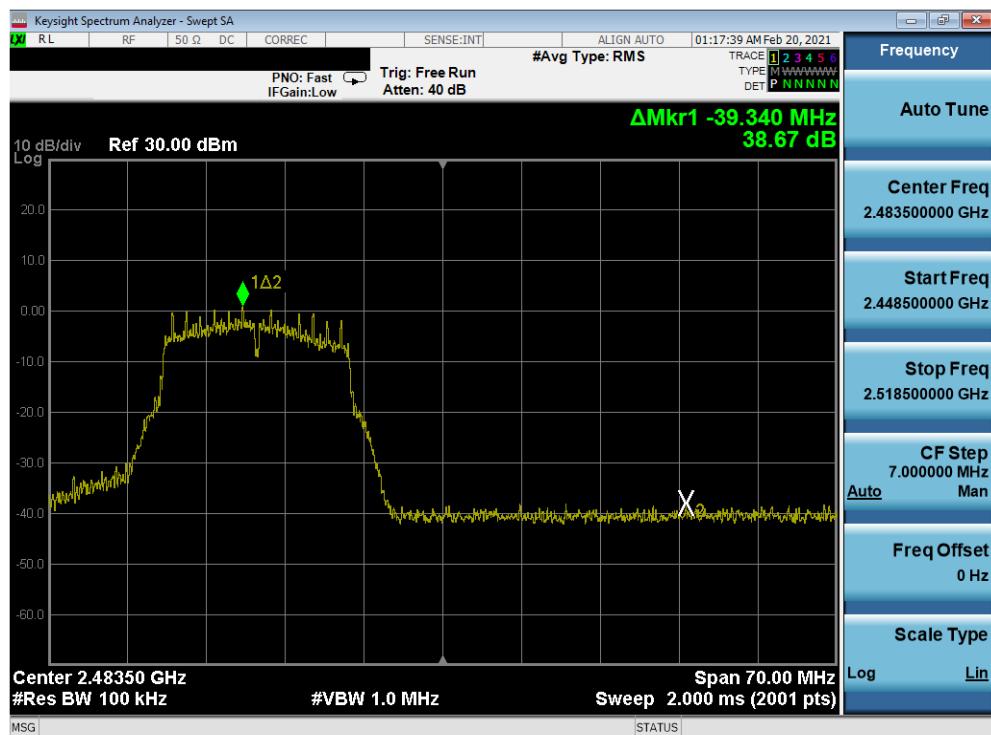


Plot 7-264. Band Edge Plot Antenna 2a (802.11g – Ch. 10) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 179 of 345	

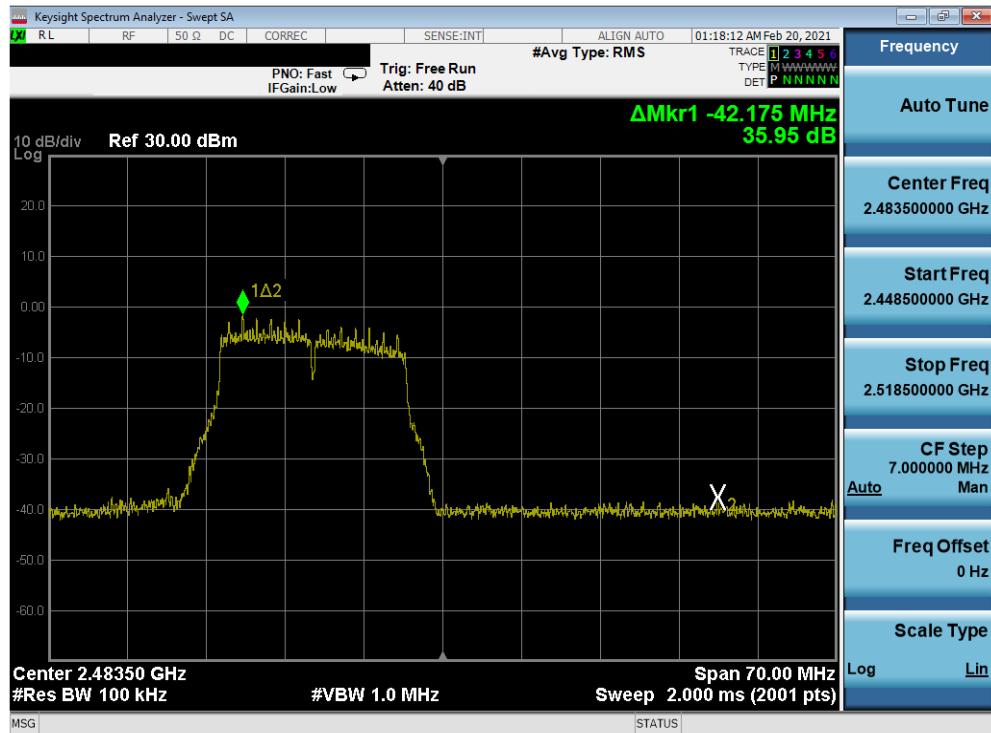


Plot 7-265. Band Edge Plot Antenna 2a (802.11g – Ch. 11) – 6Mbps

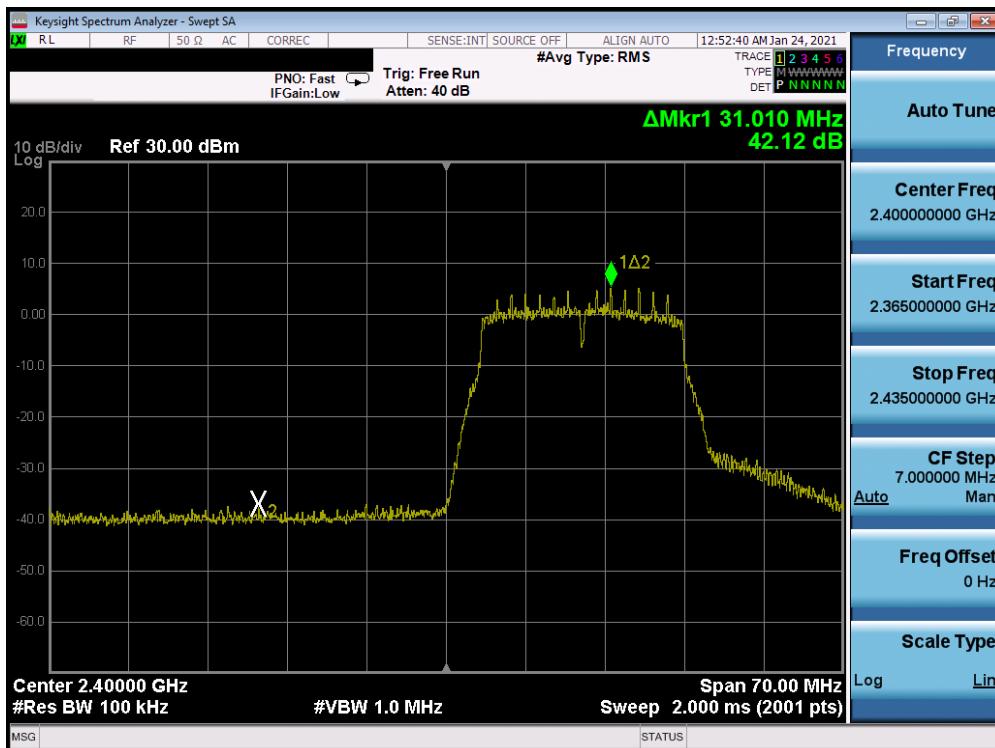


Plot 7-266. Band Edge Plot Antenna 2a (802.11g – Ch. 12) – 6Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 180 of 345

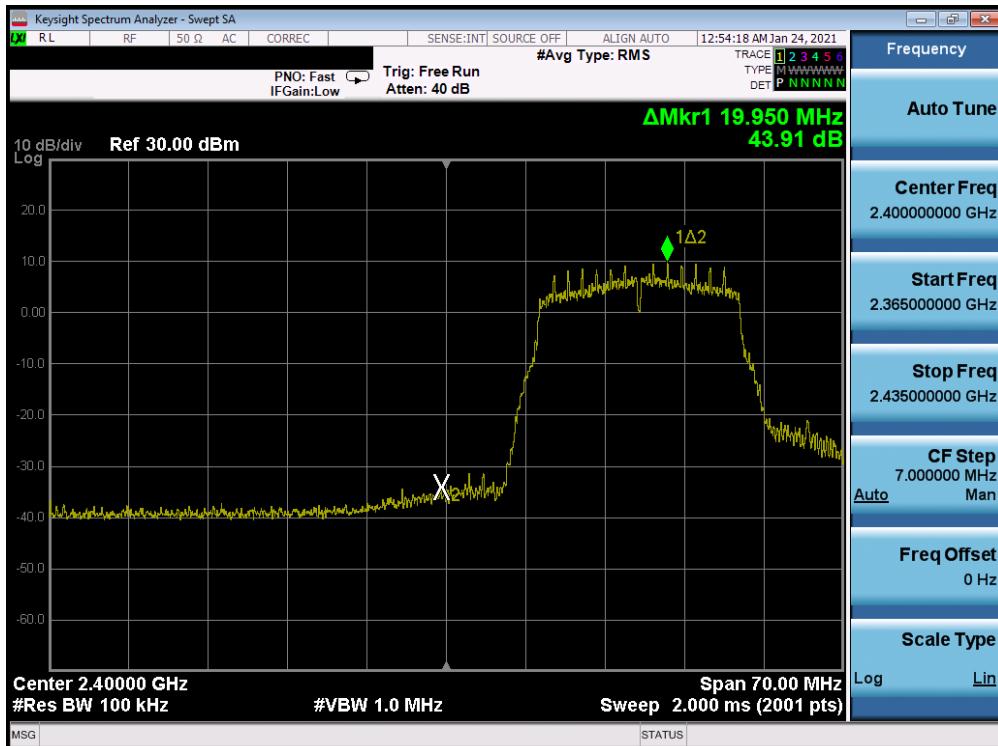


Plot 7-267. Band Edge Plot Antenna 2a (802.11g – Ch. 13) – 6Mbps

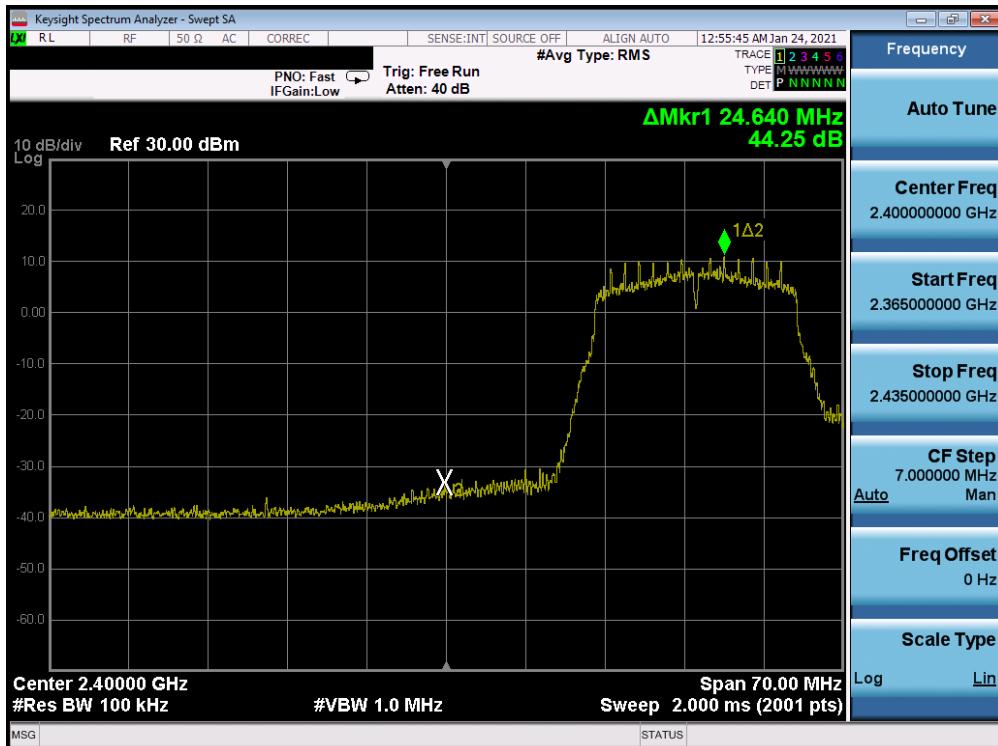


Plot 7-268. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 181 of 345

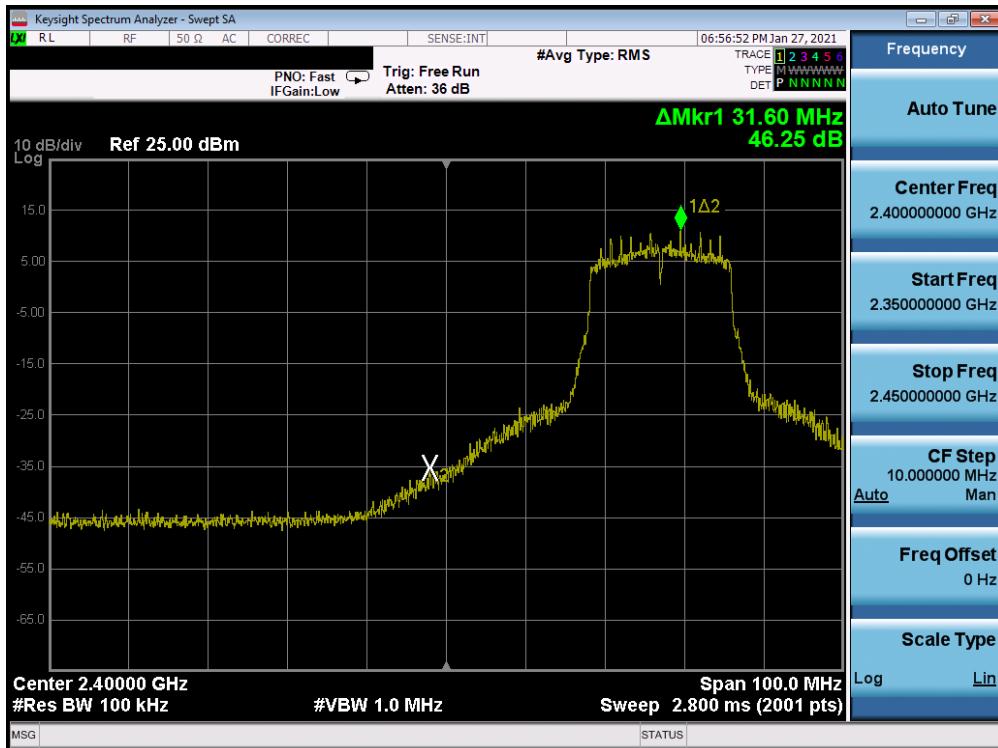


Plot 7-269. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 2) – MCS0

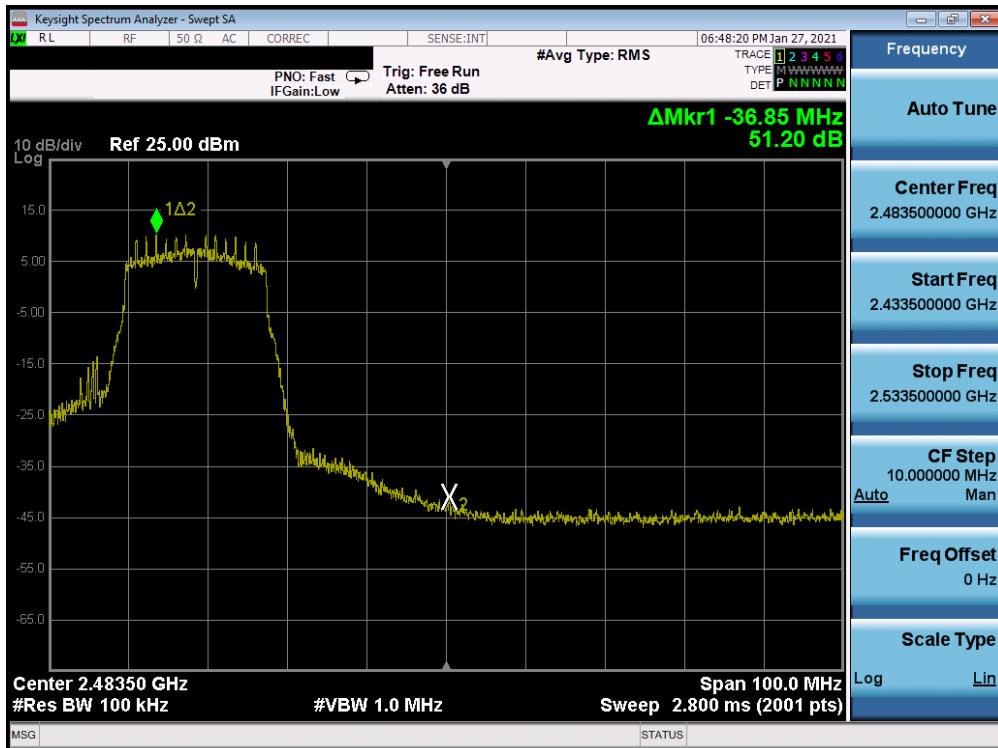


Plot 7-270. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 3) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 182 of 345

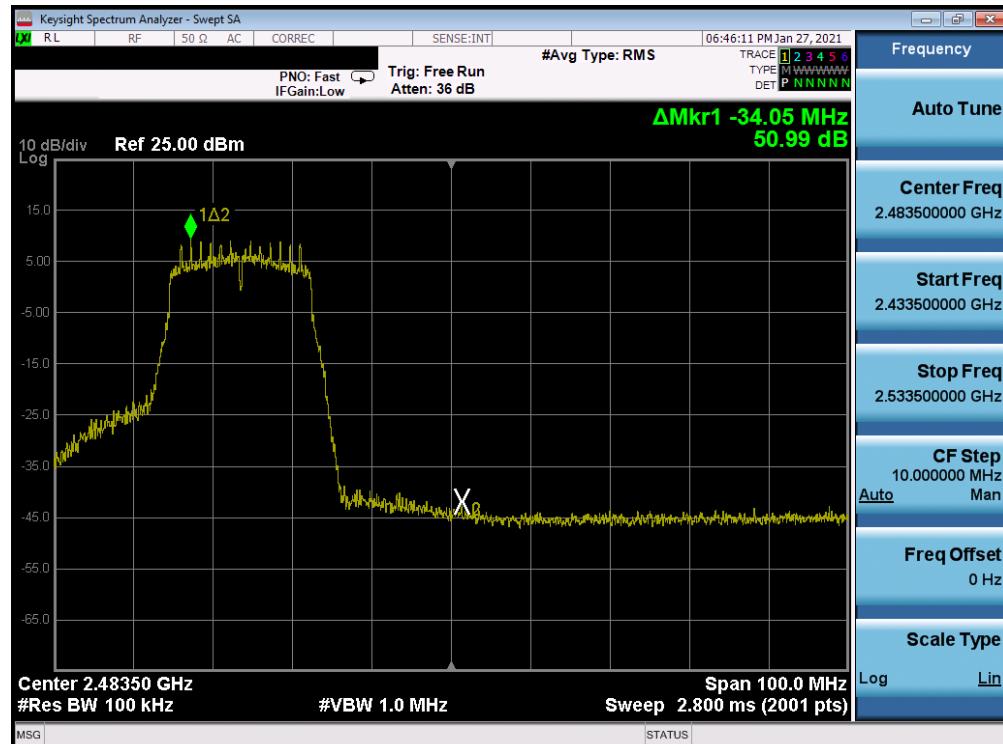


Plot 7-271. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 4) – MCS0

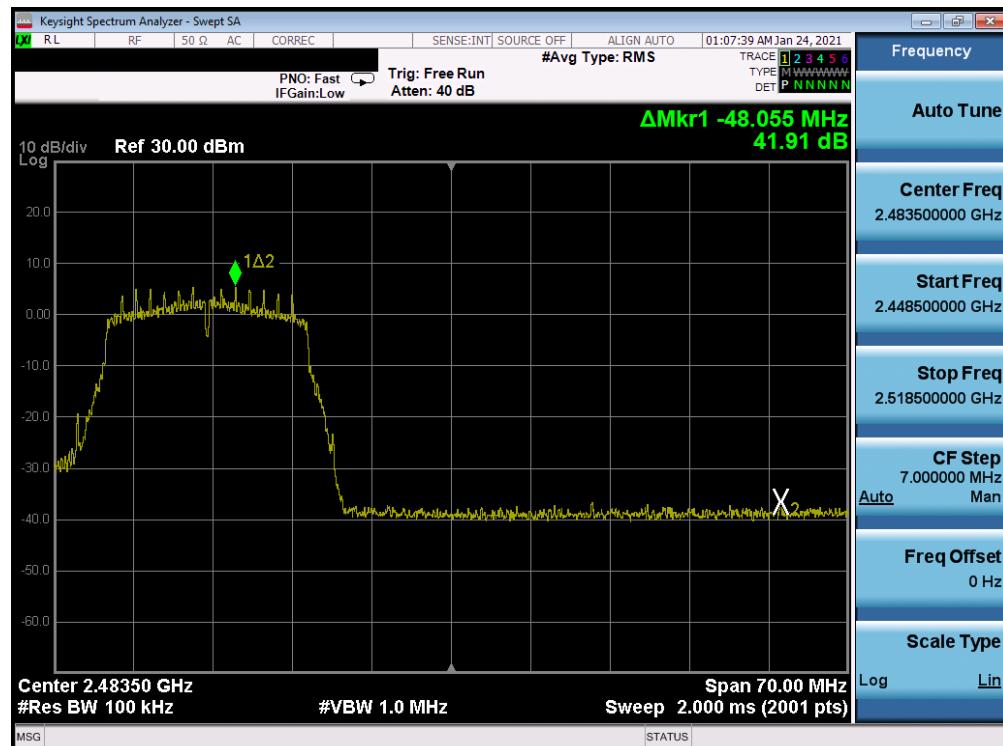


Plot 7-272. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 9) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 183 of 345

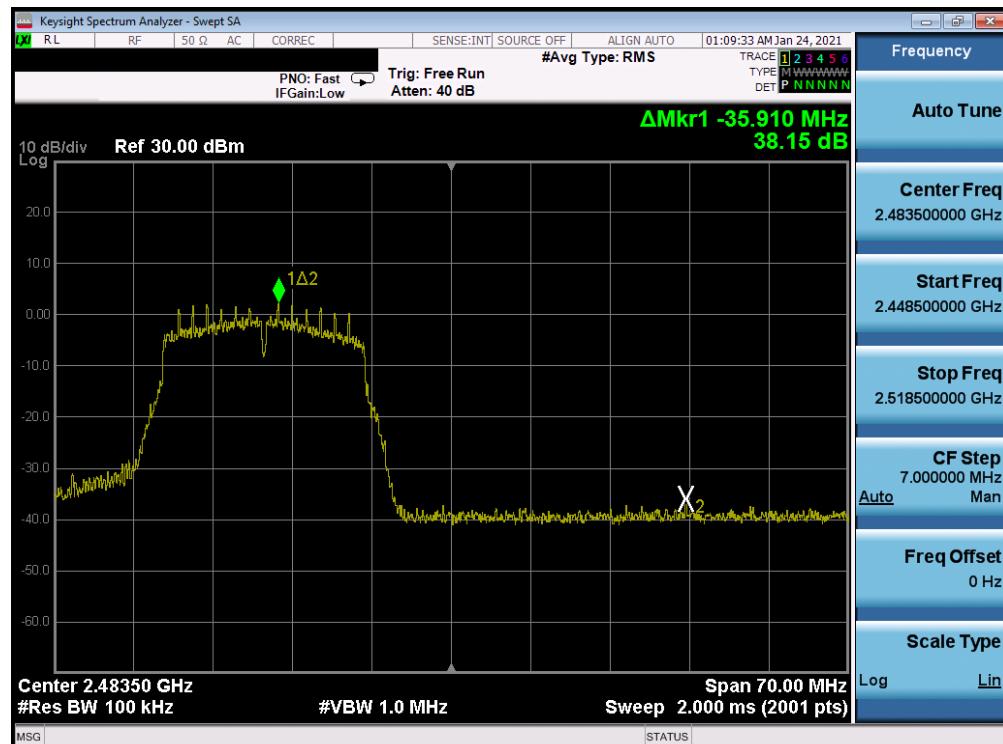


Plot 7-273. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 10) – MCS0

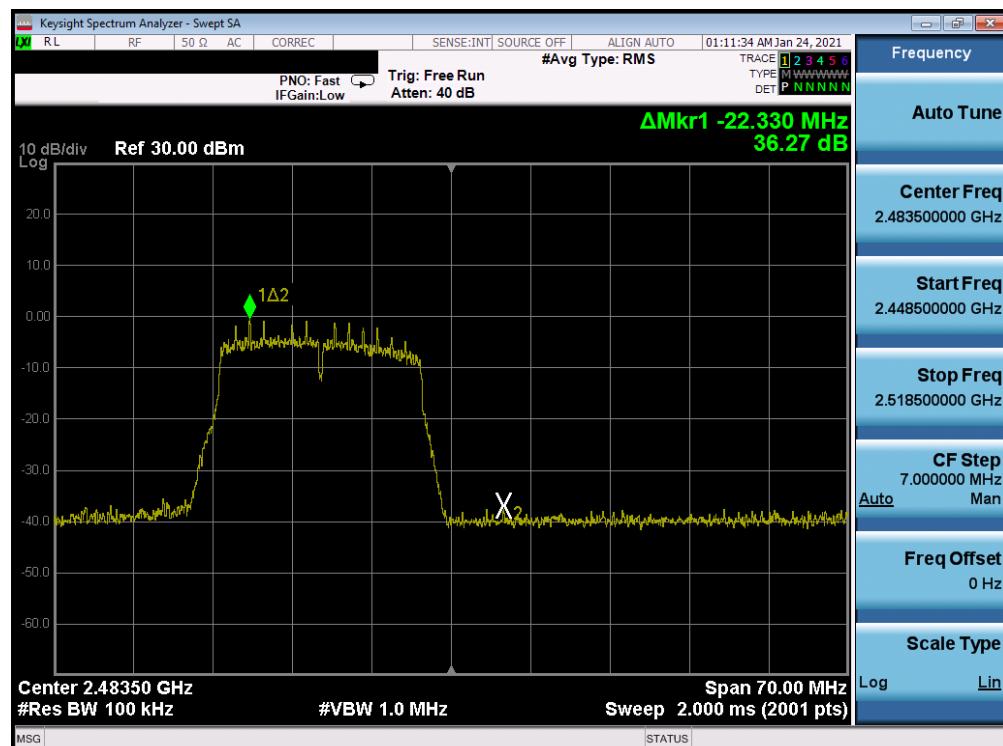


Plot 7-274. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 184 of 345

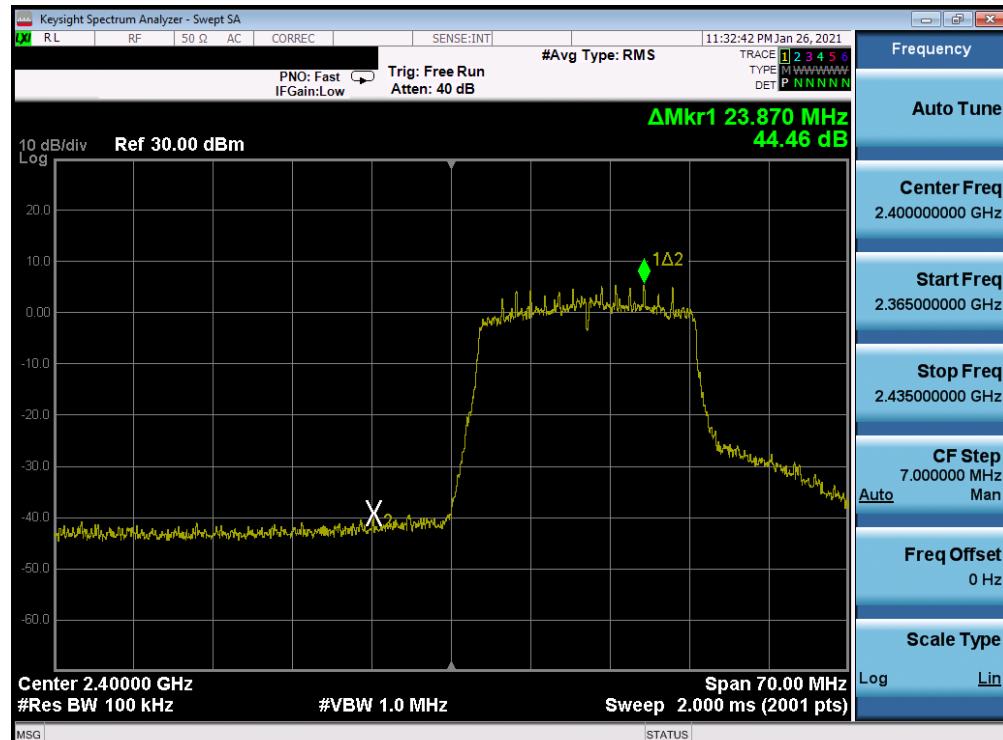


Plot 7-275. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 12) – MCS0

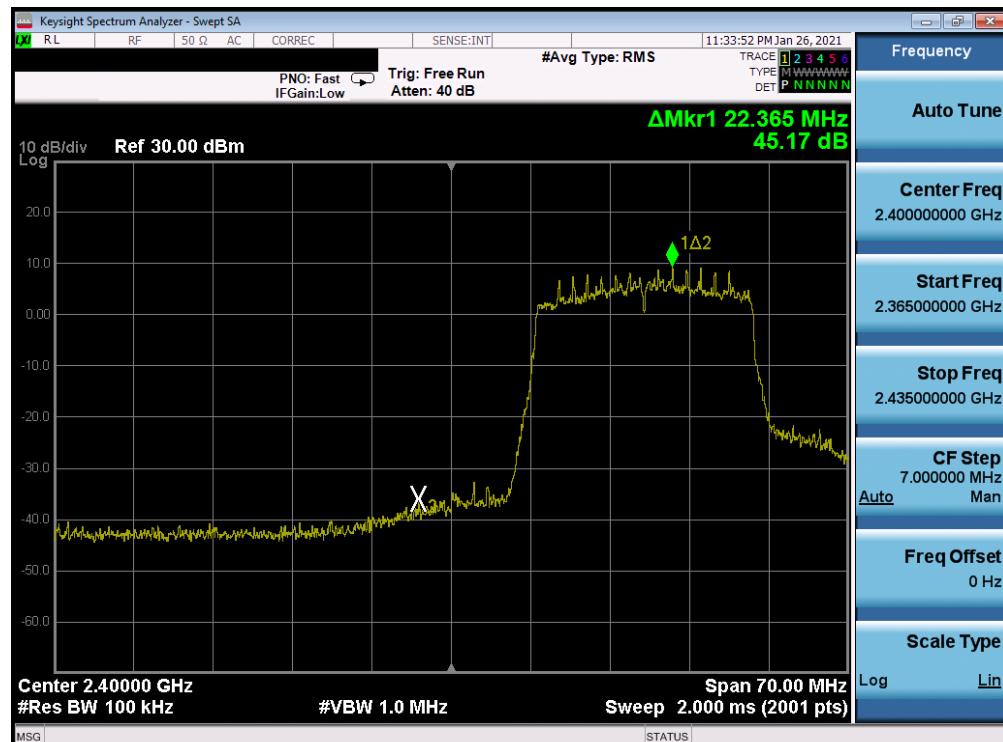


Plot 7-276. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 13) – MCS0

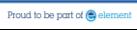
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 185 of 345

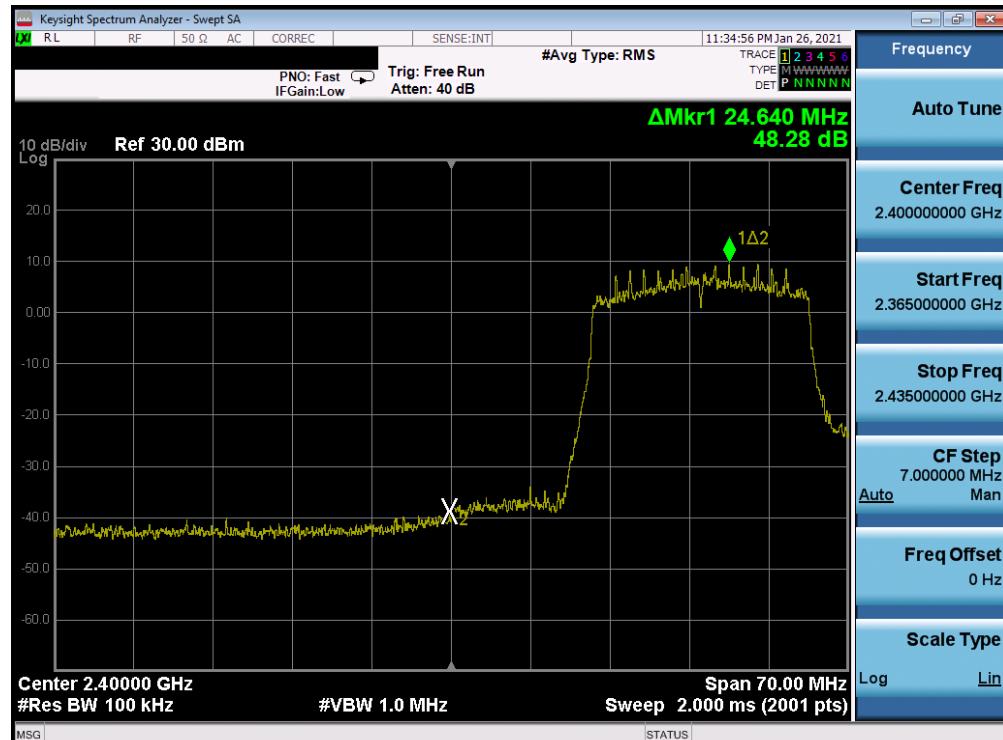


Plot 7-277. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS0



Plot 7-278. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS0

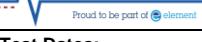
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 186 of 345

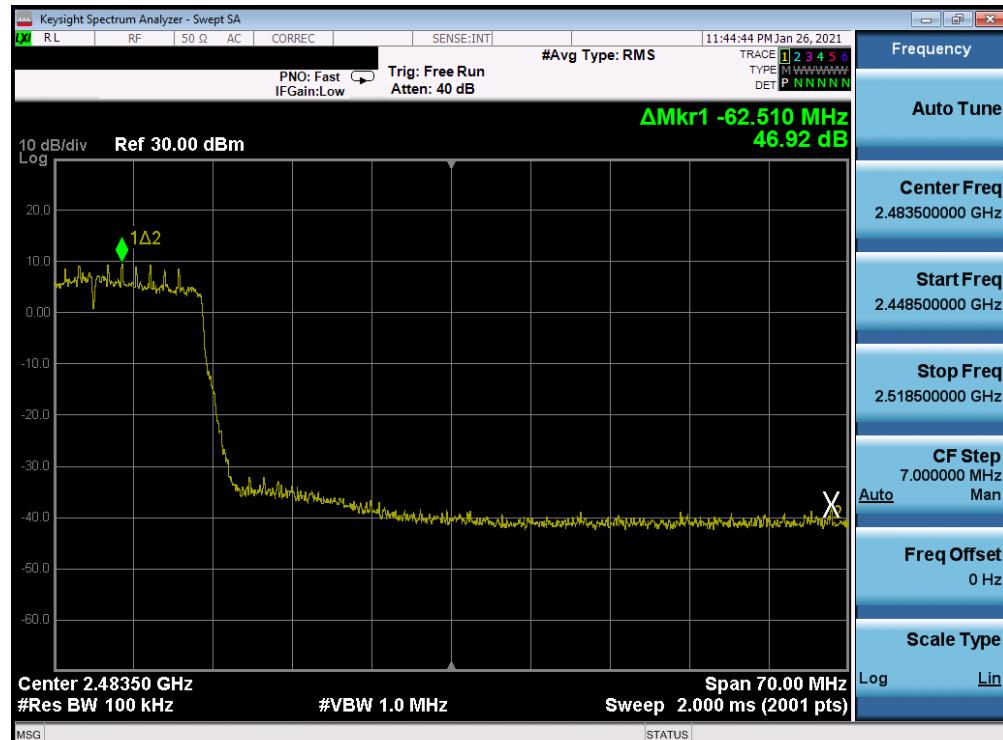


Plot 7-279. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS0

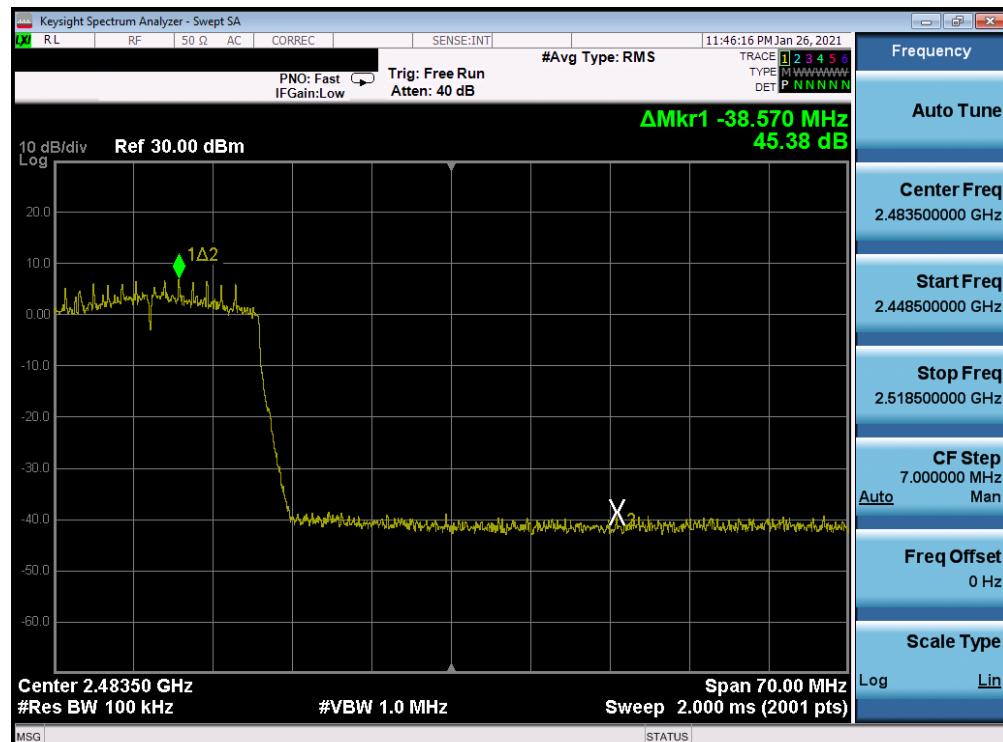


Plot 7-280. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 187 of 345

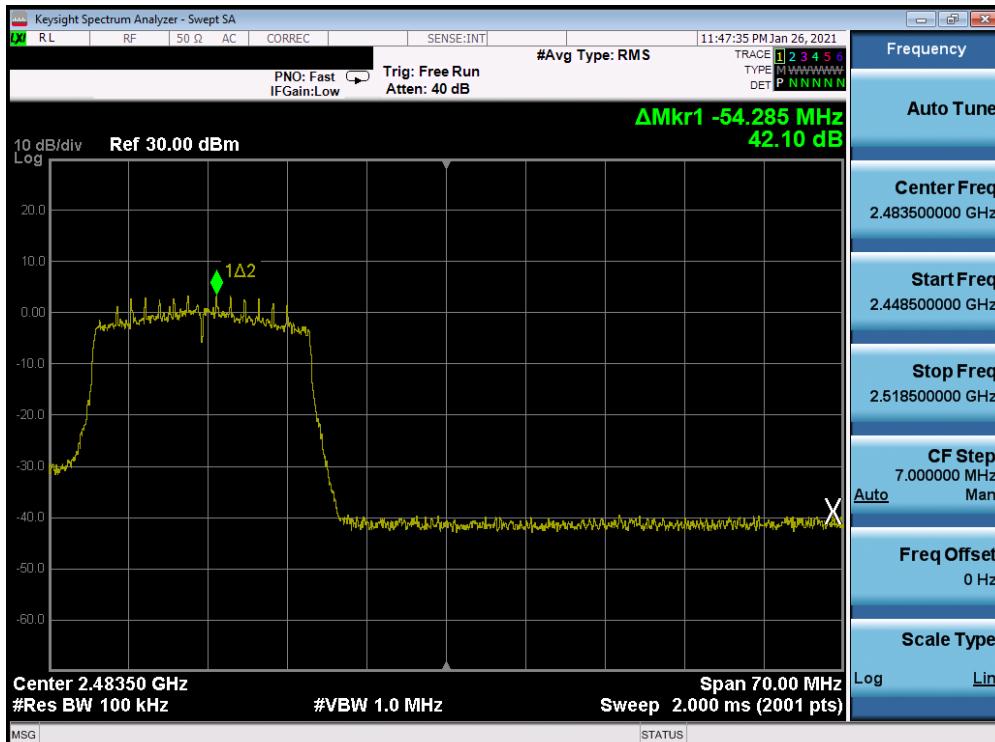


Plot 7-281. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS0

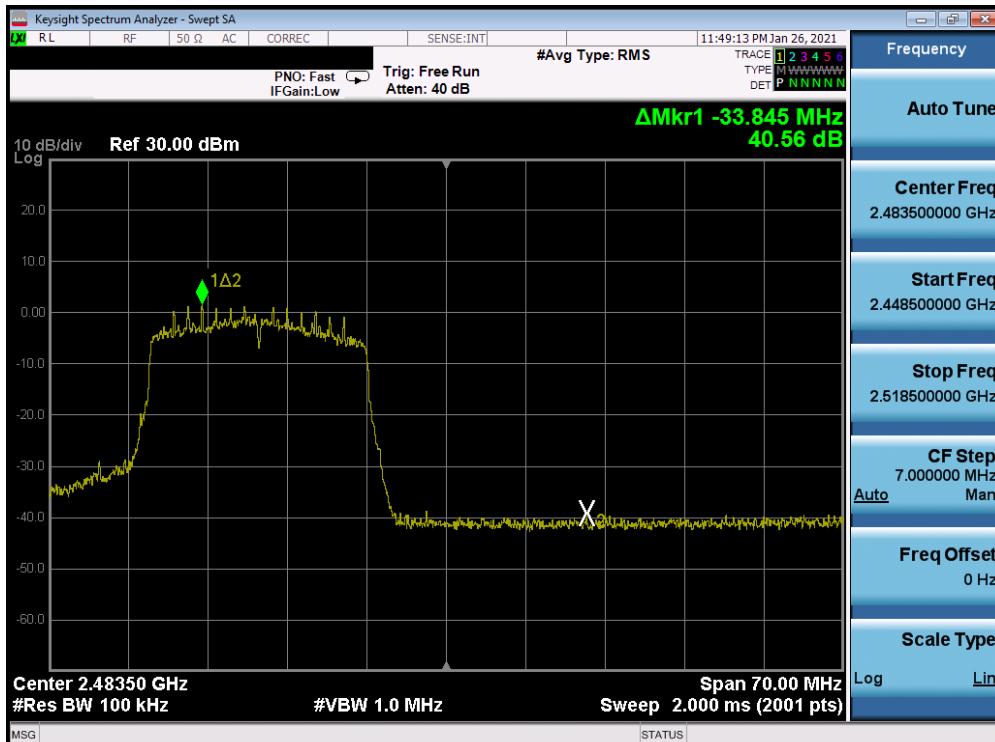


Plot 7-282. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS0

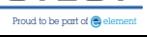
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 188 of 345



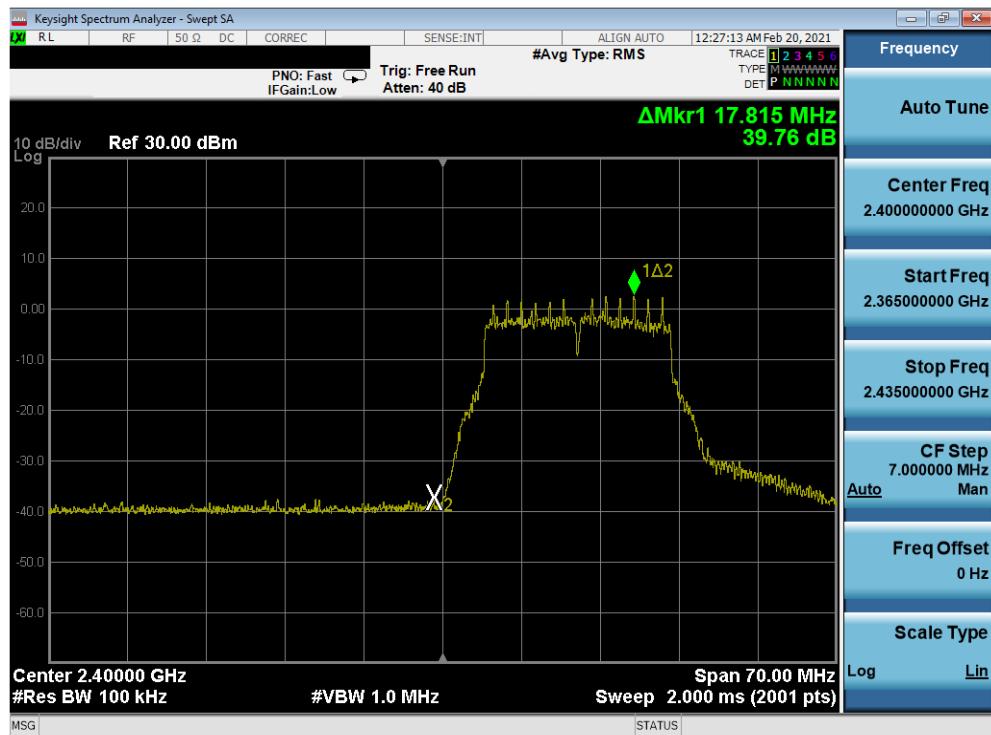
Plot 7-283. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS0



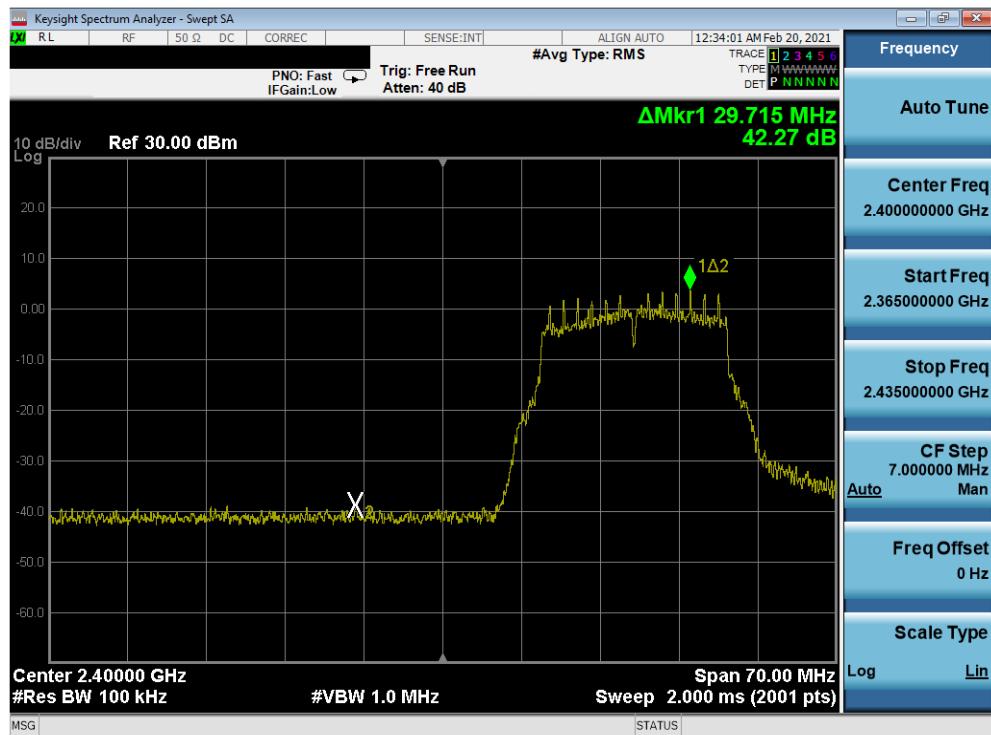
Plot 7-284. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS0

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 189 of 345	

Mid Data Rate

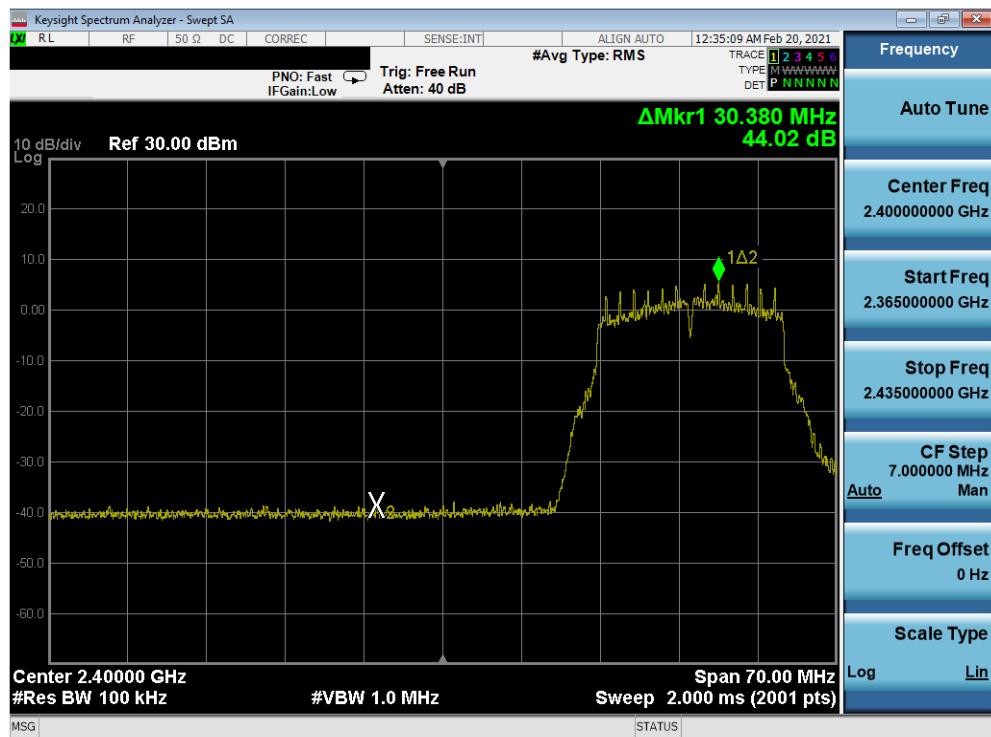


Plot 7-285. Band Edge Plot Antenna 2a (802.11g – Ch. 1) – 18Mbps

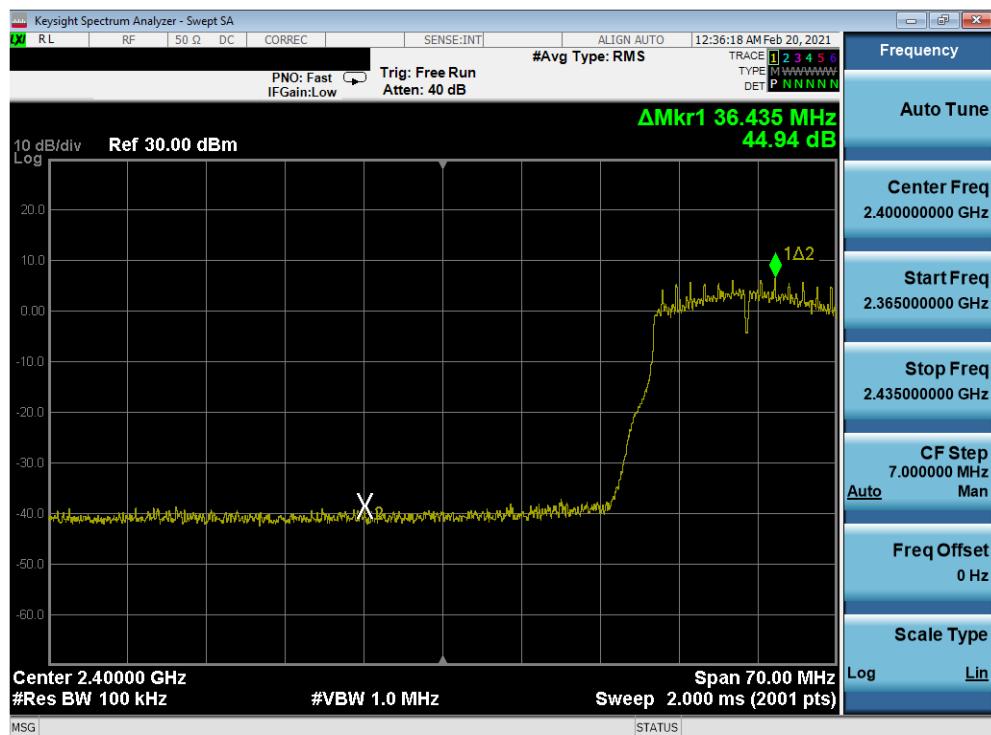


Plot 7-286. Band Edge Plot Antenna 2a (802.11g – Ch. 2) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 190 of 345

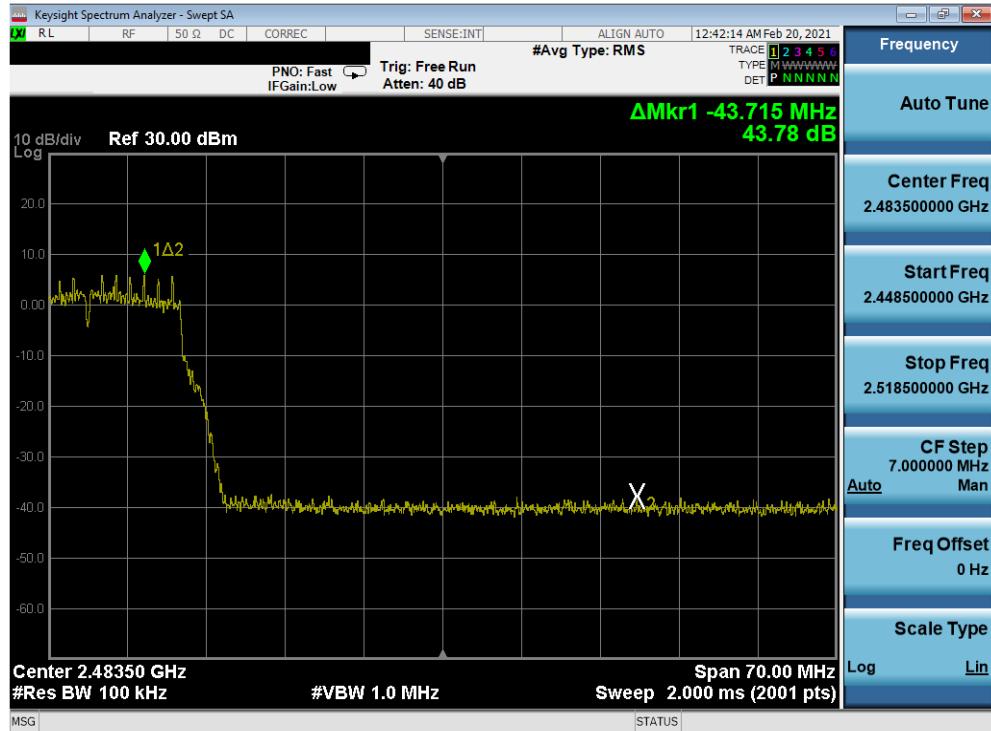


Plot 7-287. Band Edge Plot Antenna 2a (802.11g– Ch. 3) – 18Mbps

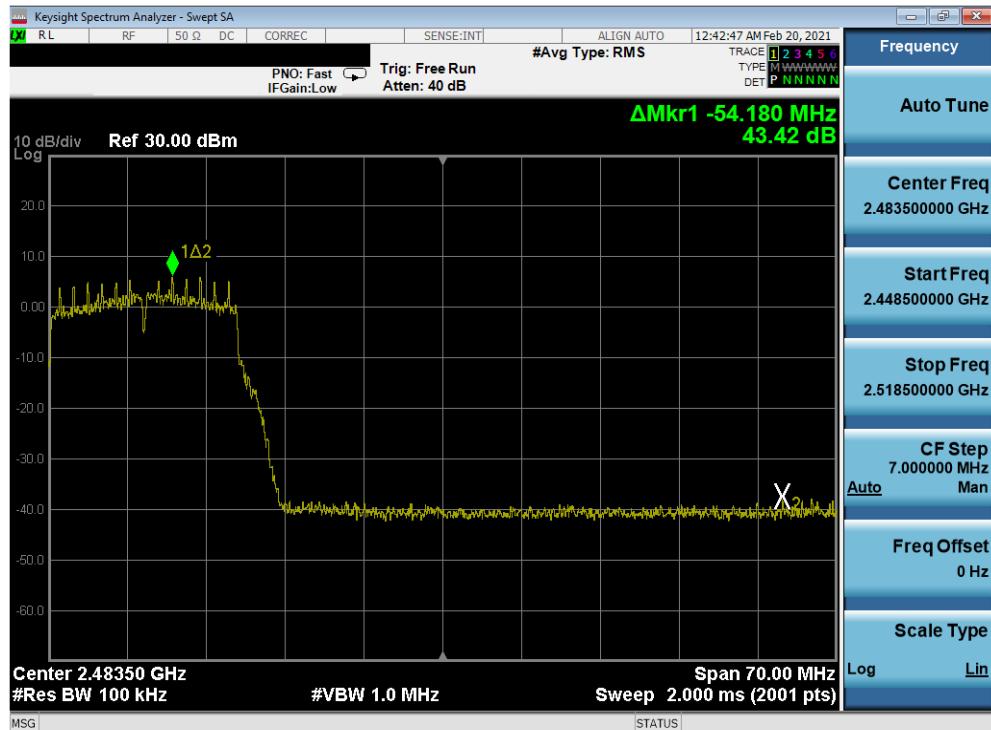


Plot 7-288. Band Edge Plot Antenna 2a (802.11g– Ch. 4) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 191 of 345

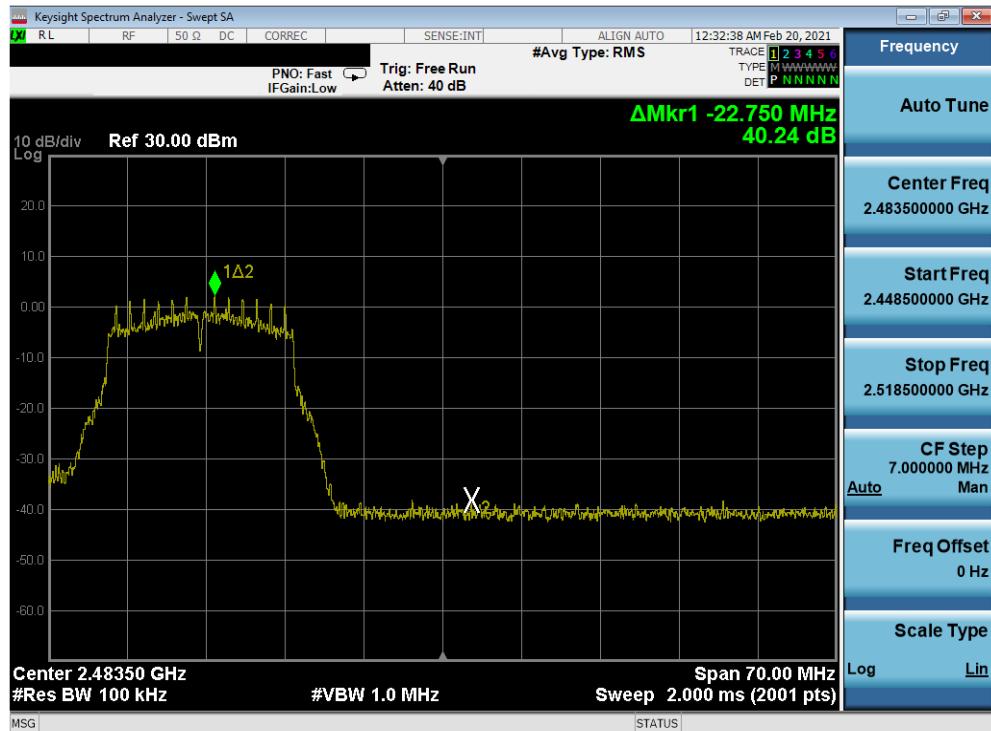


Plot 7-289. Band Edge Plot Antenna 2a (802.11g – Ch. 9) – 18Mbps

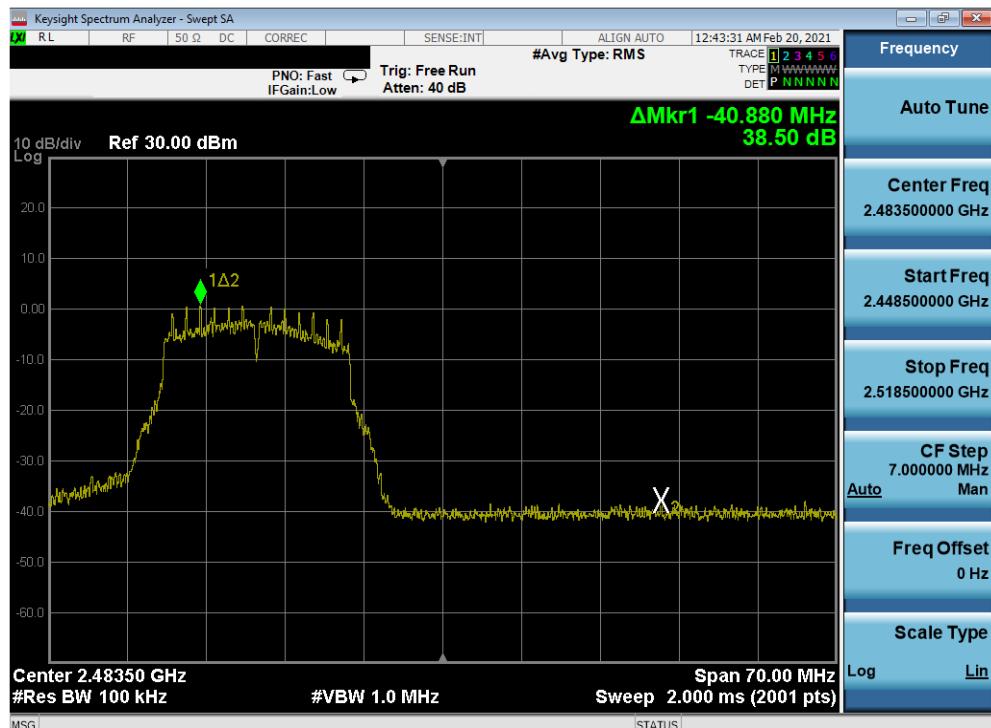


Plot 7-290. Band Edge Plot Antenna 2a (802.11g – Ch. 10) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 192 of 345	

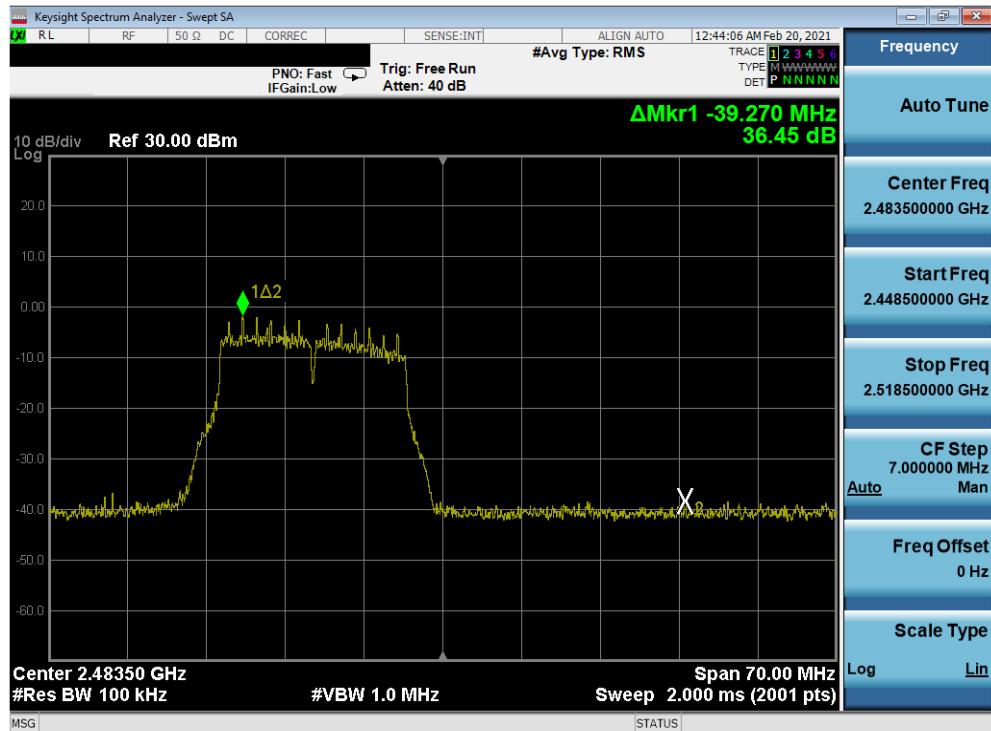


Plot 7-291. Band Edge Plot Antenna 2a (802.11g – Ch. 11) – 18Mbps

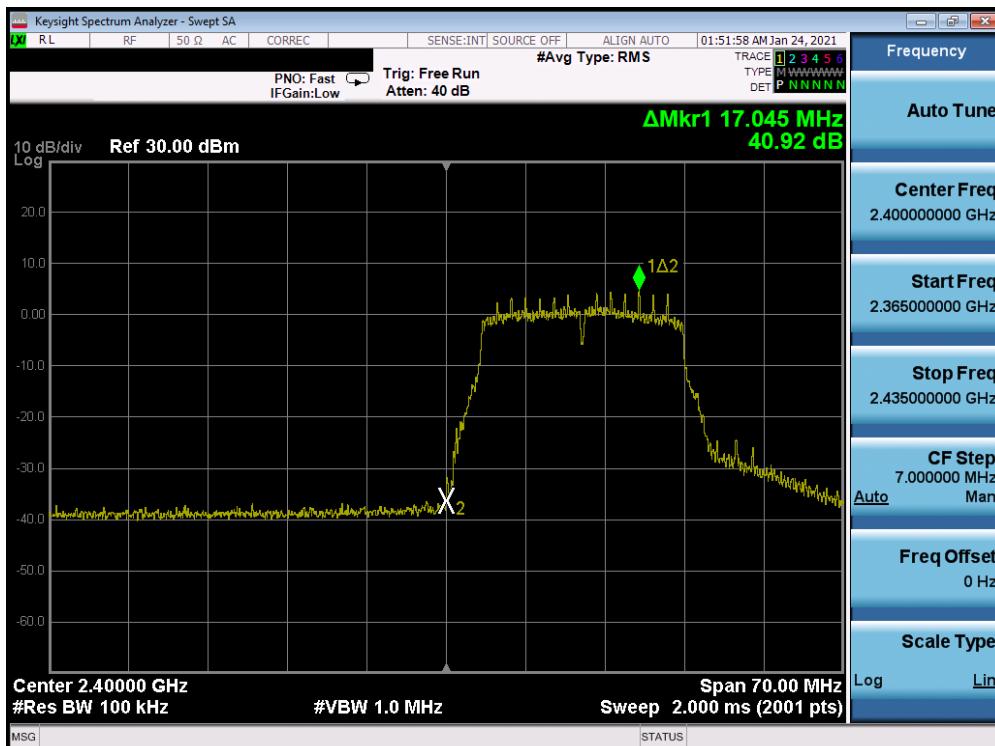


Plot 7-292. Band Edge Plot Antenna 2a (802.11g – Ch. 12) – 18Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 193 of 345	

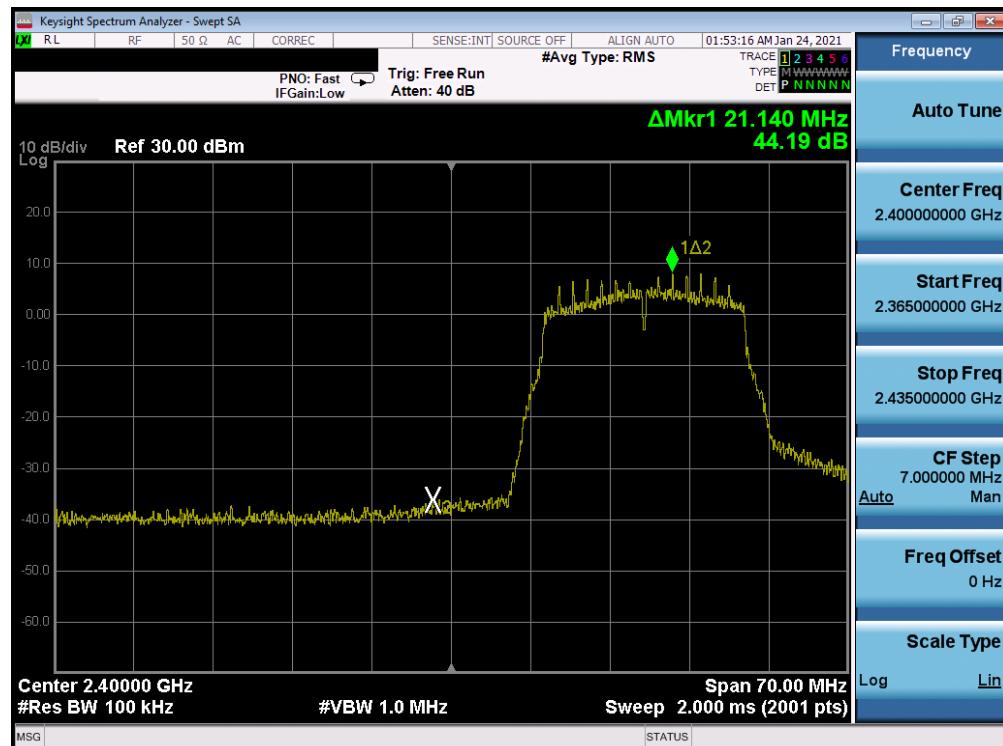


Plot 7-293. Band Edge Plot Antenna 2a (802.11g – Ch. 13) – 18Mbps

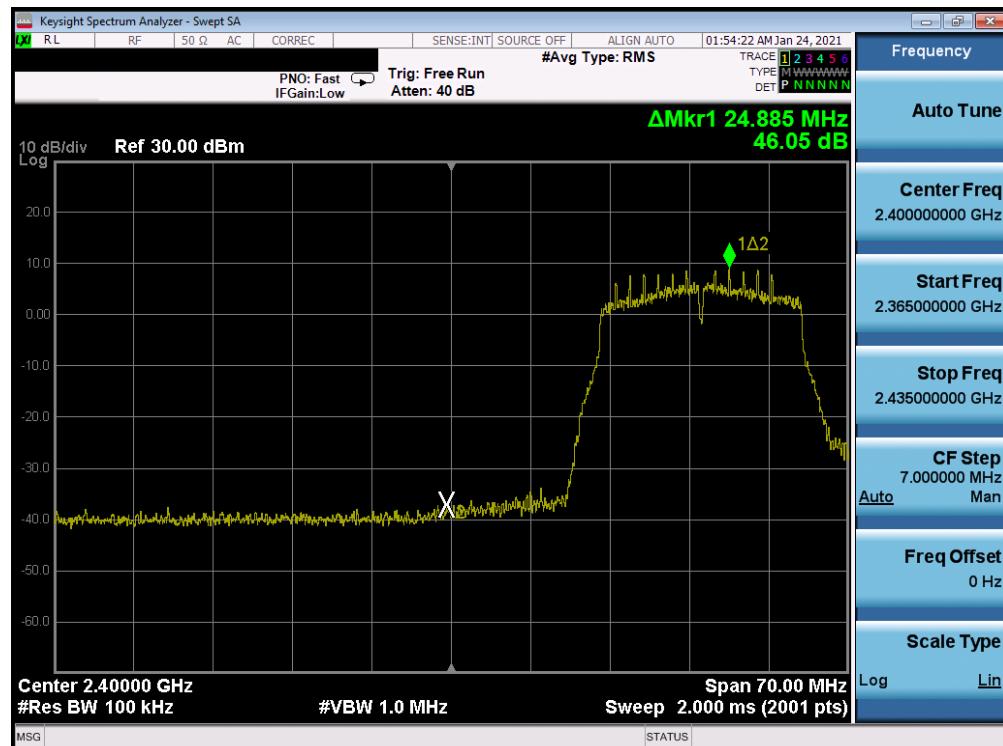


Plot 7-294. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 194 of 345	

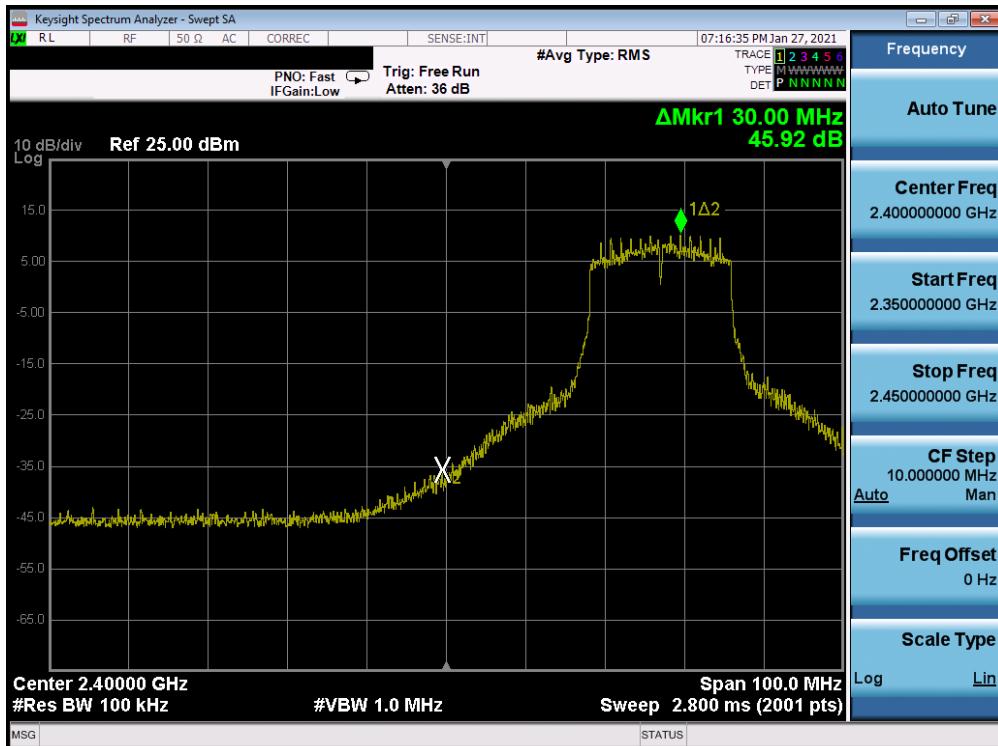


Plot 7-295. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 2) – MCS3

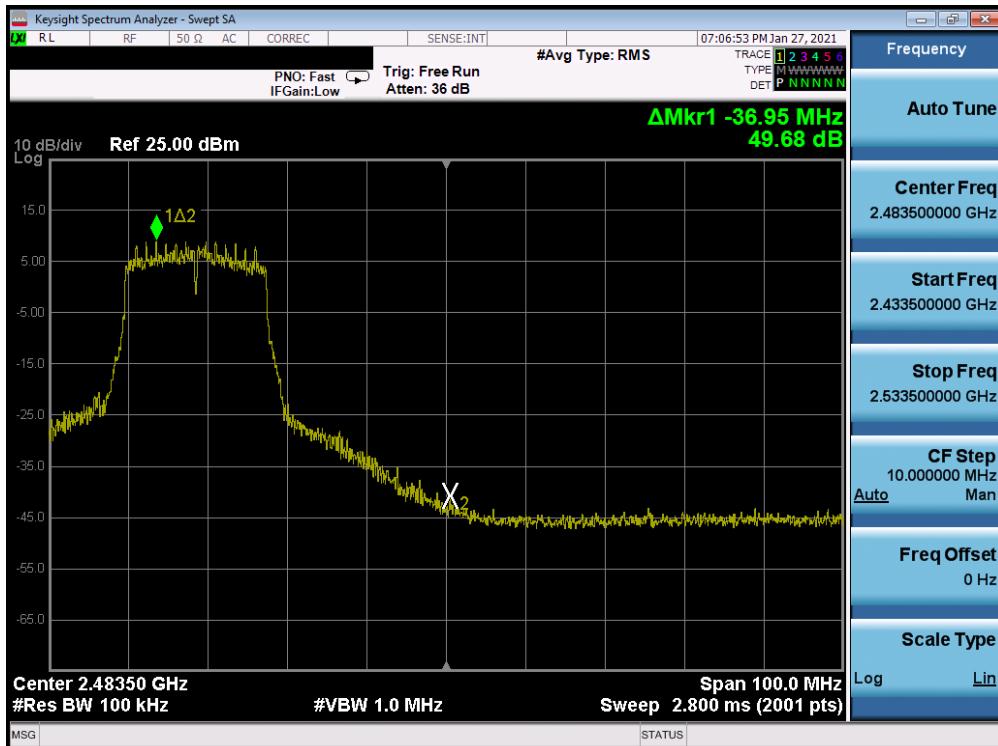


Plot 7-296. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 3) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 195 of 345

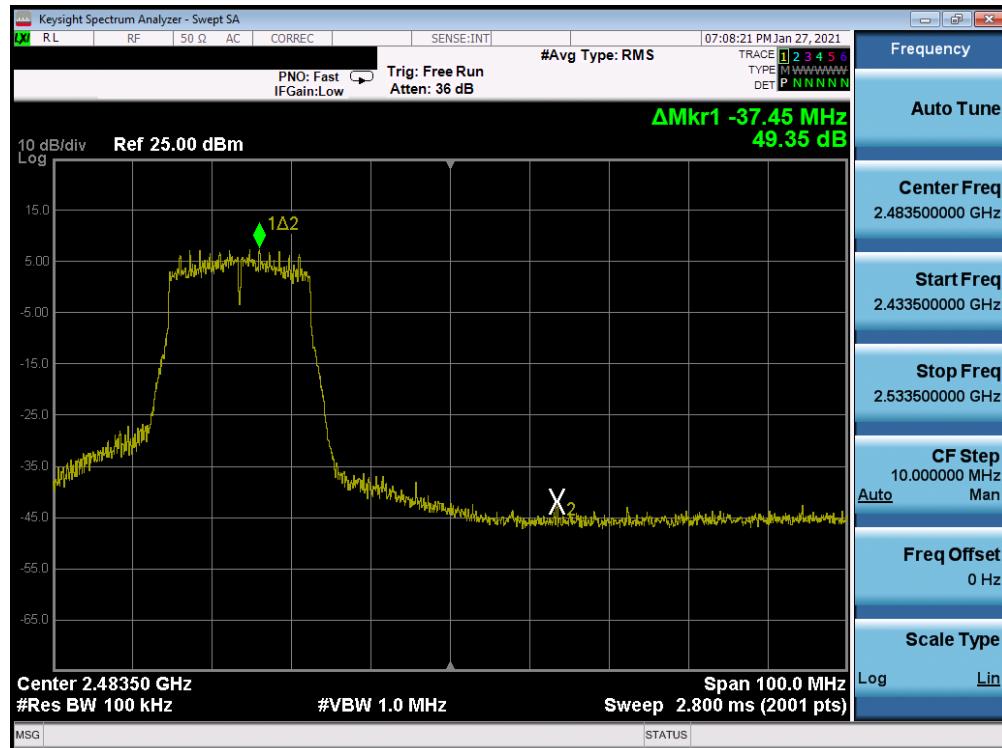


Plot 7-297. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 4) – MCS3

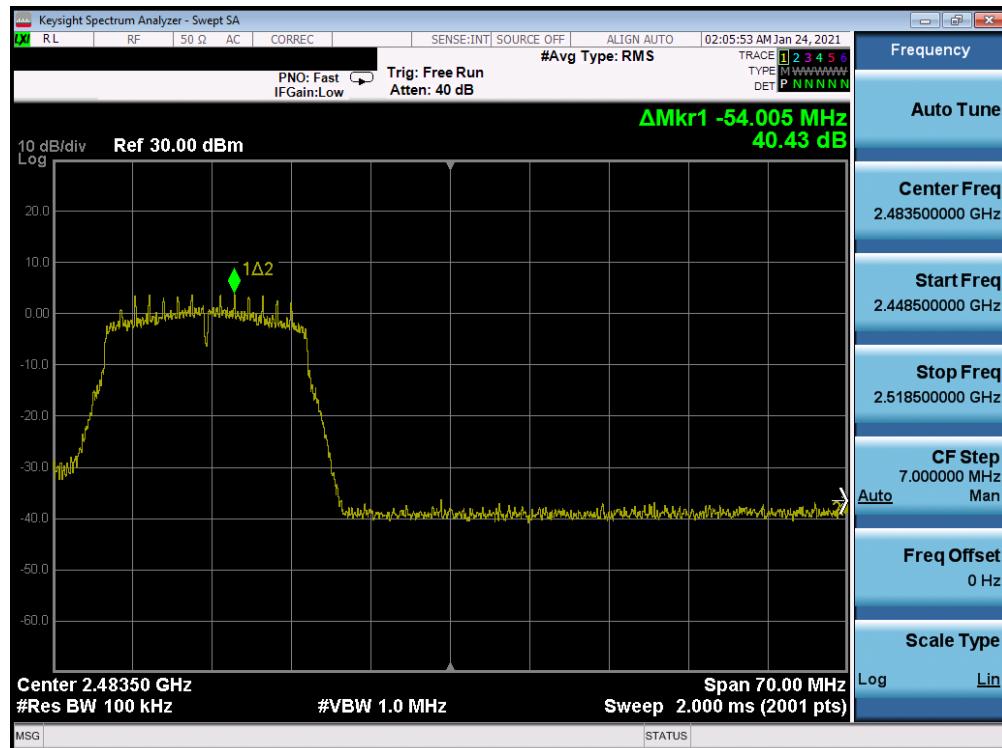


Plot 7-298. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 9) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 196 of 345

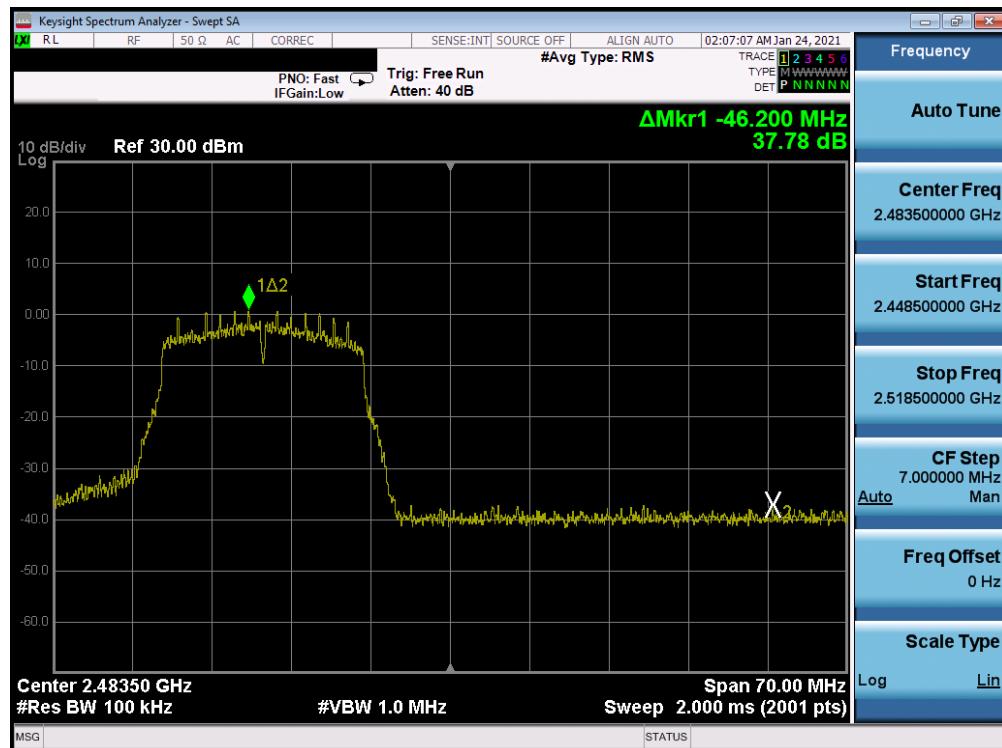


Plot 7-299. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 10) – MCS3

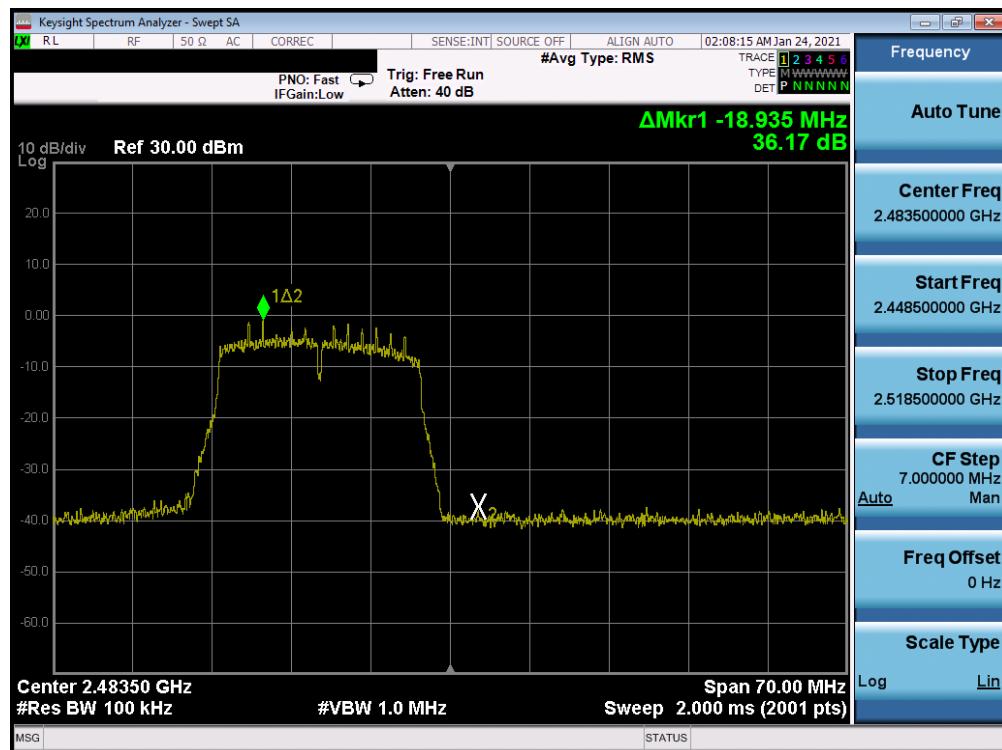


Plot 7-300. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 197 of 345

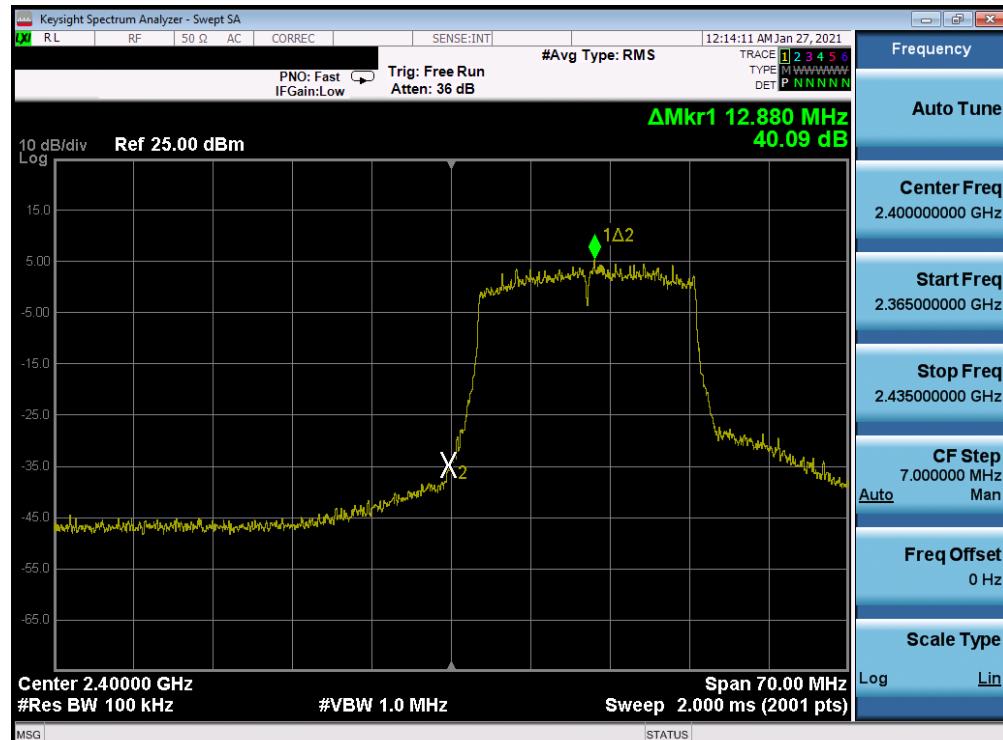


Plot 7-301. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 12) – MCS3

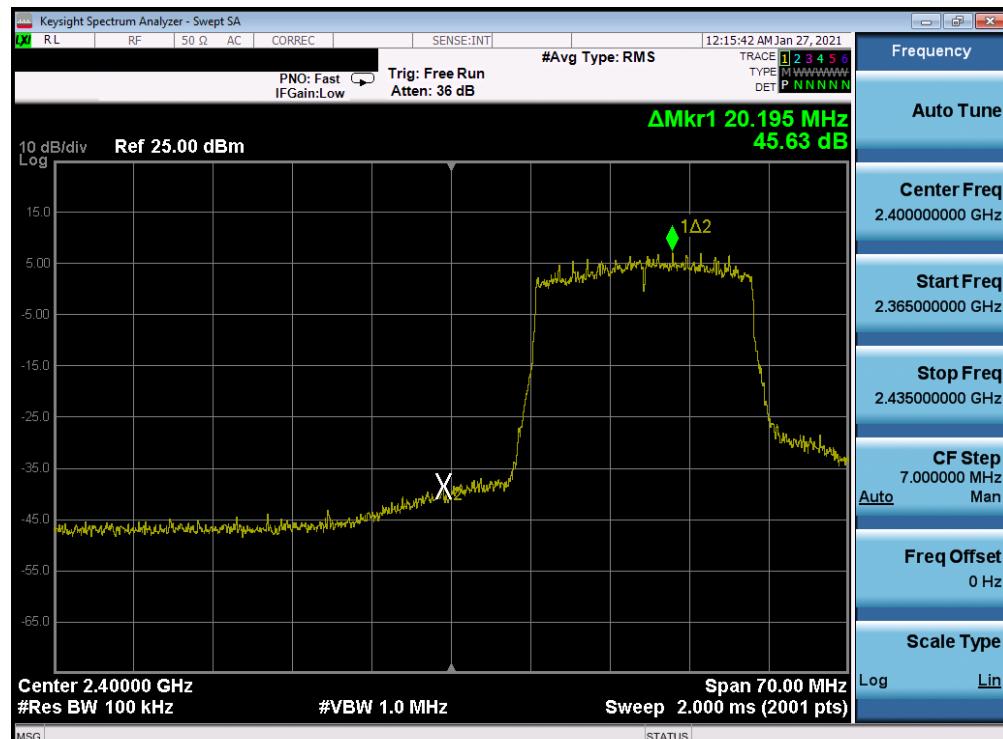


Plot 7-302. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 13) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 198 of 345

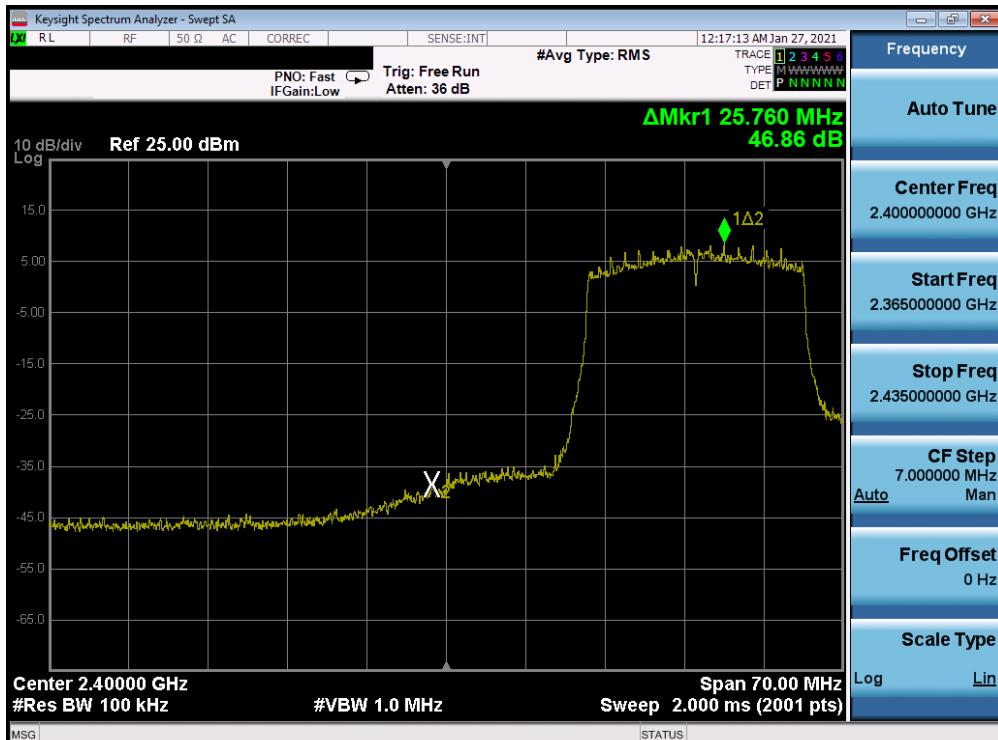


Plot 7-303. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS3

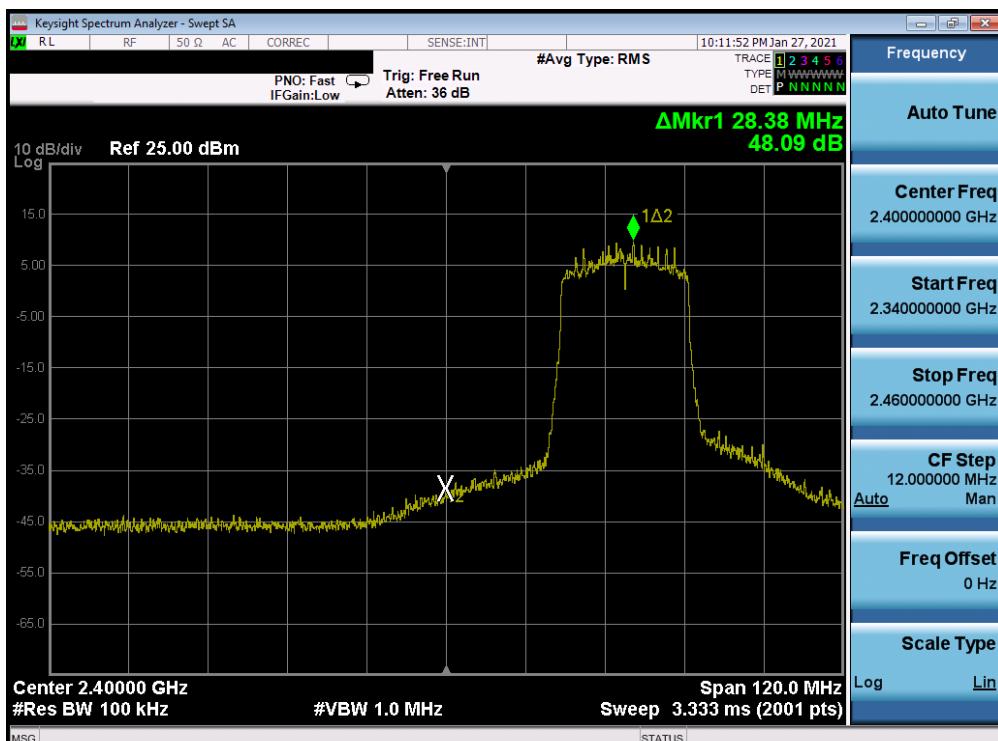


Plot 7-304. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 199 of 345

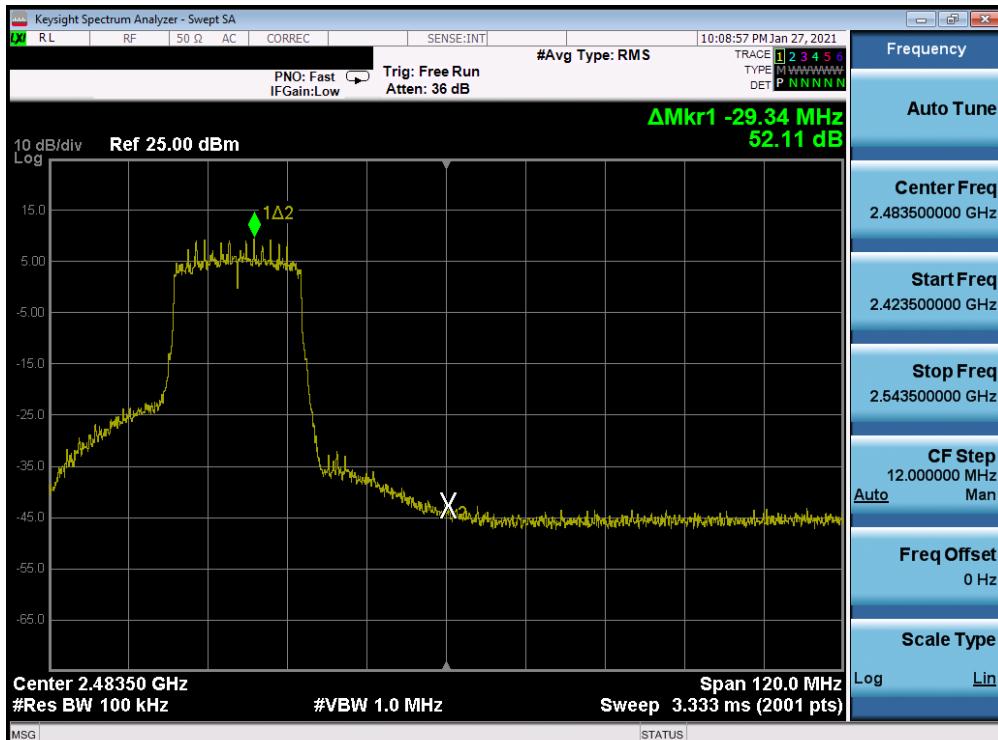


Plot 7-305. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS3

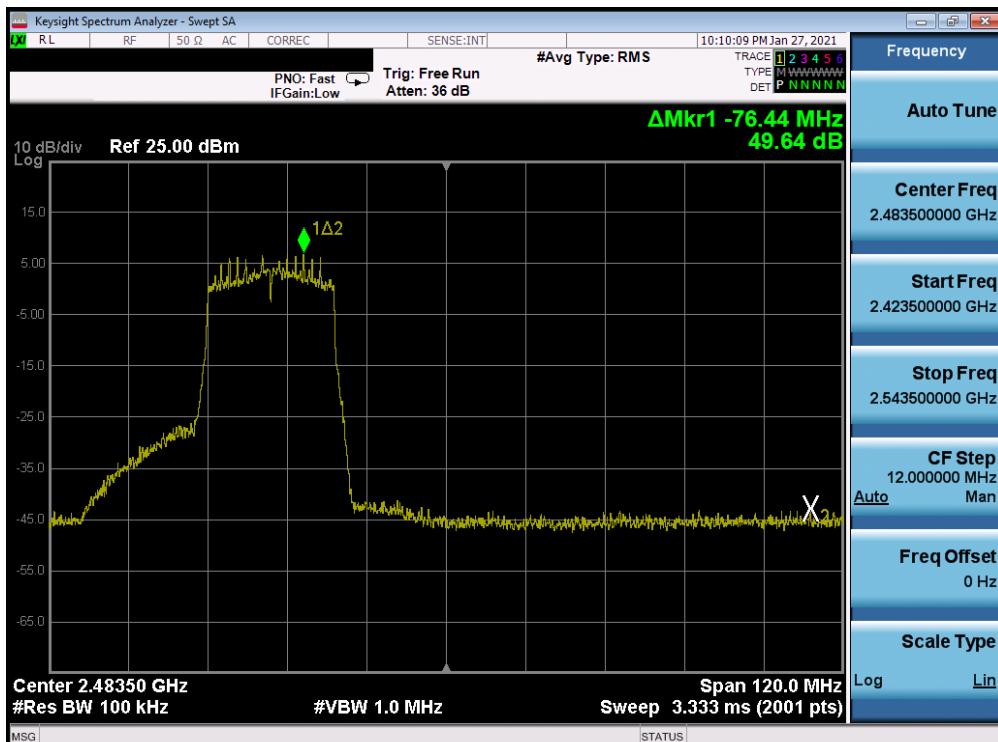


Plot 7-306. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 200 of 345

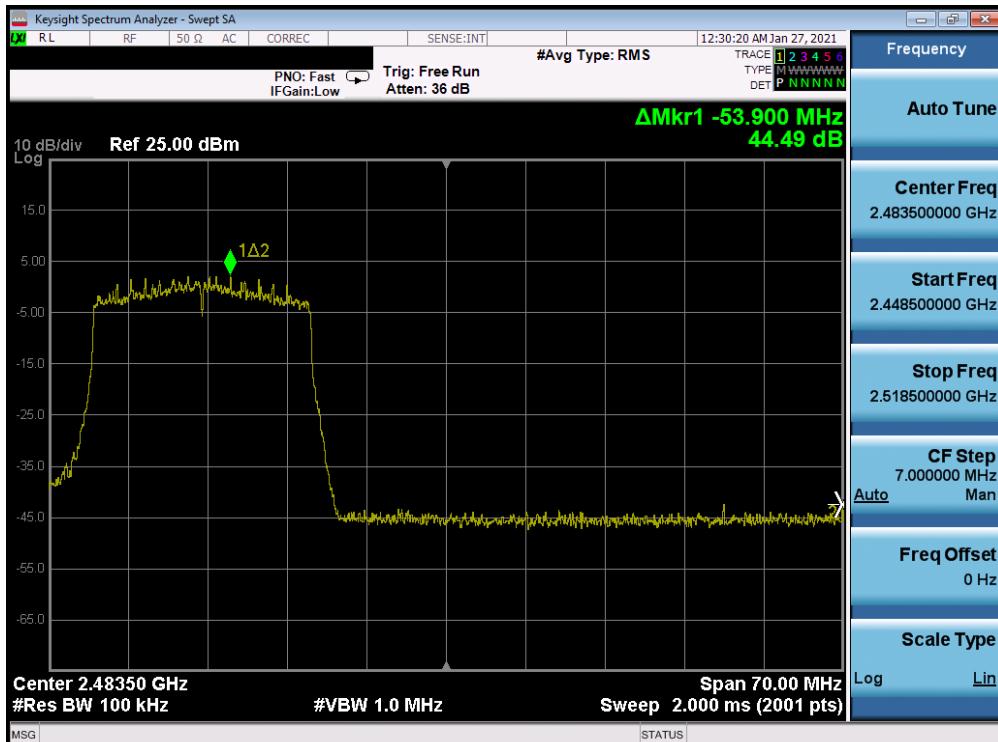


Plot 7-307. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS3

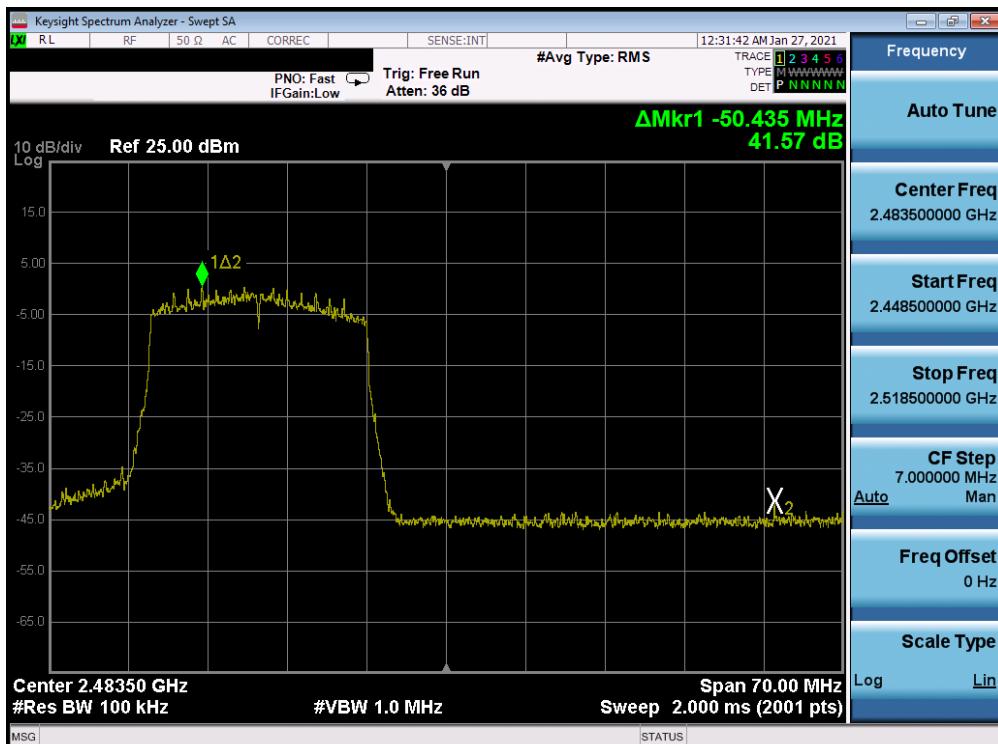


Plot 7-308. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 201 of 345



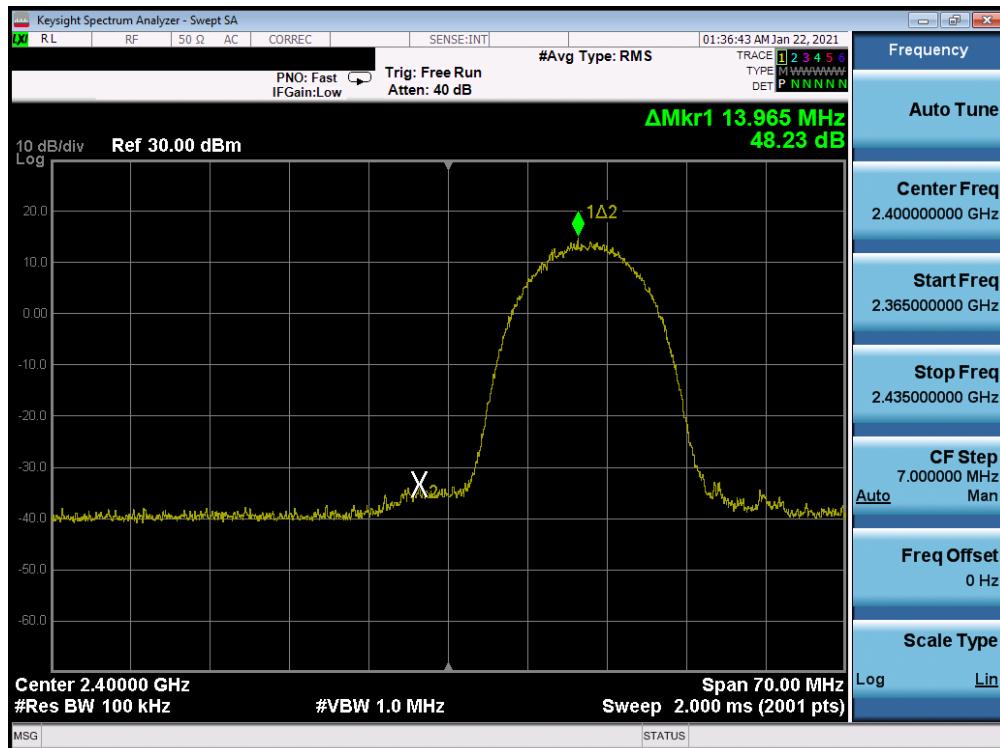
Plot 7-309. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS3



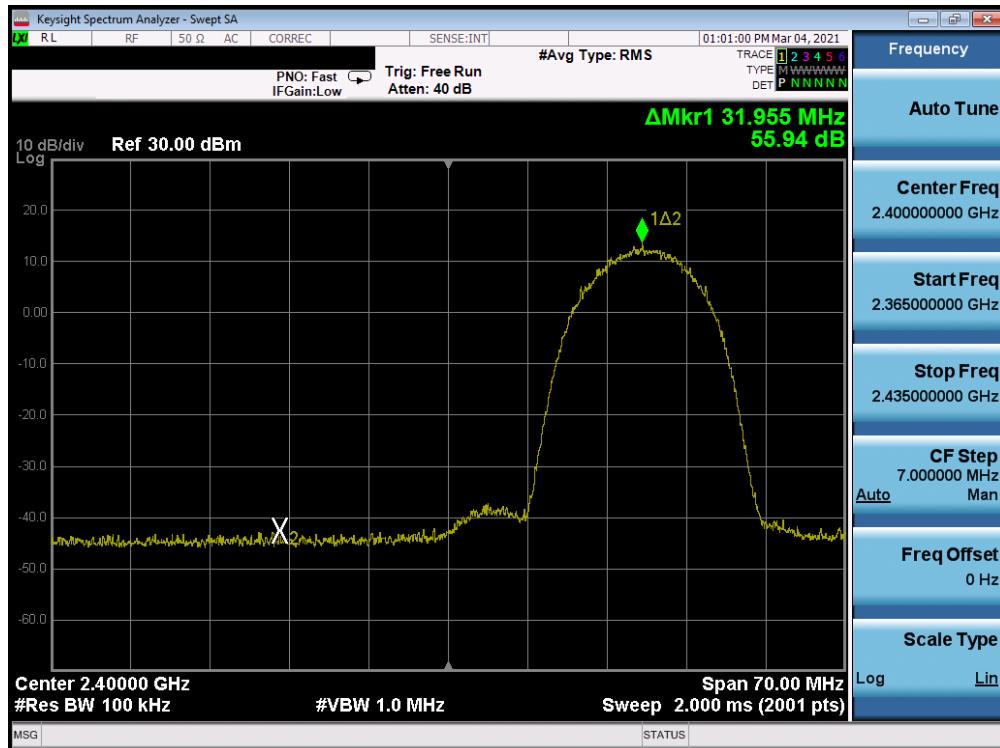
Plot 7-310. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS3

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 202 of 345

High Data Rate

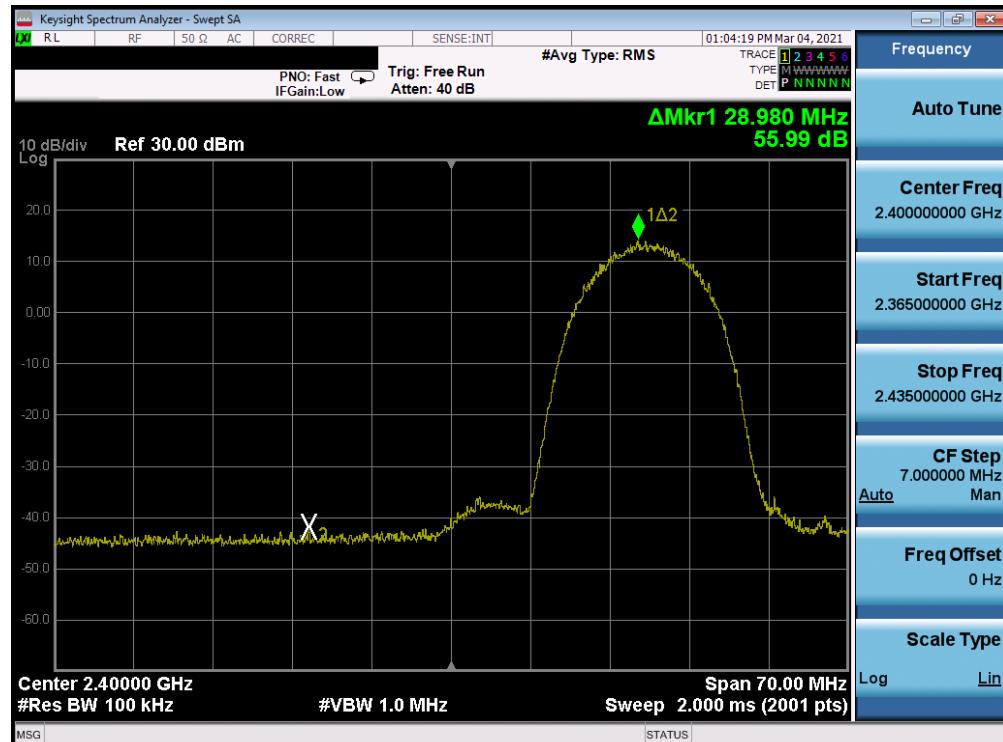


Plot 7-311. Band Edge Plot Antenna 2a (802.11b – Ch. 1) – 11Mbps

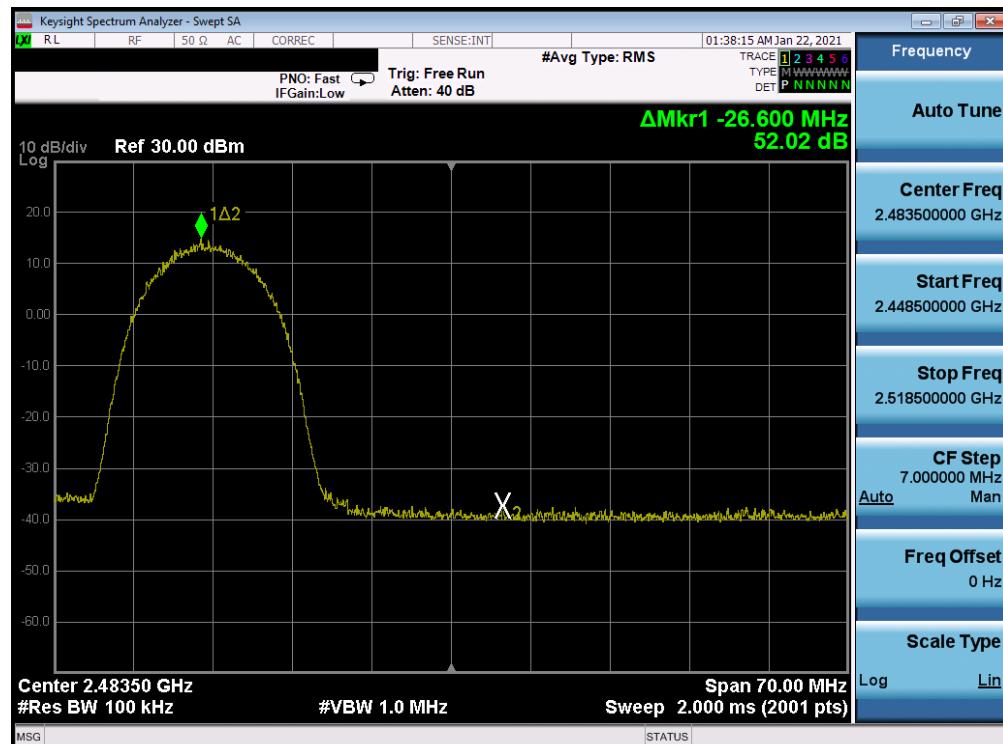


Plot 7-312. Band Edge Plot Antenna 2a (802.11b – Ch. 2) – 11Mbps

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 203 of 345

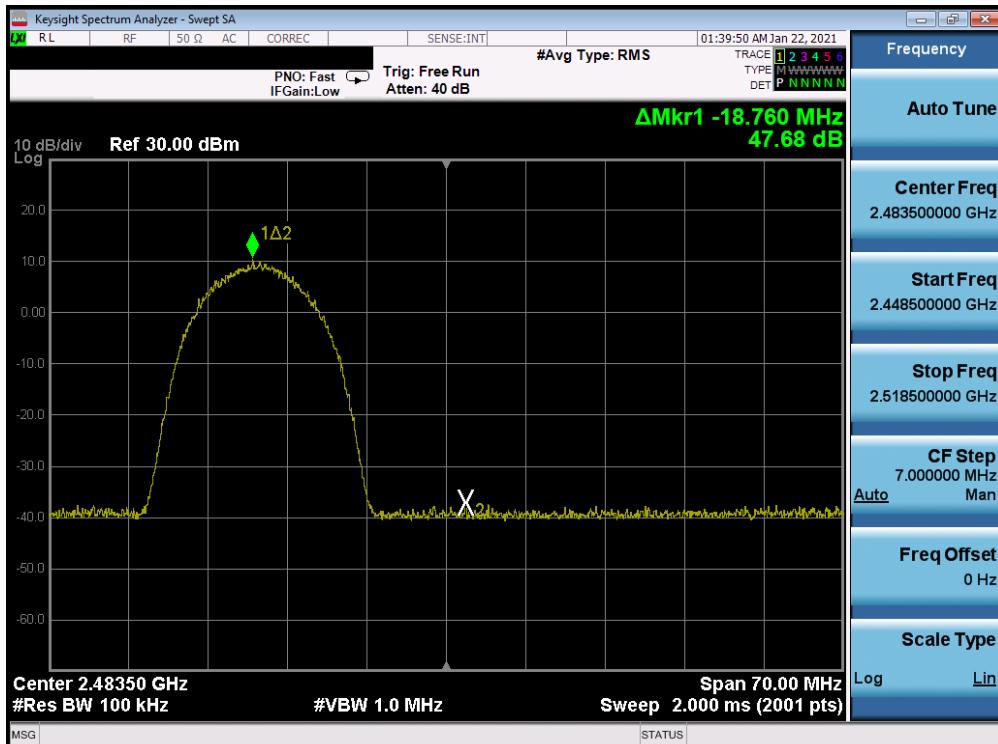


Plot 7-313. Band Edge Plot Antenna 2a (802.11b – Ch. 3) – 11Mbps

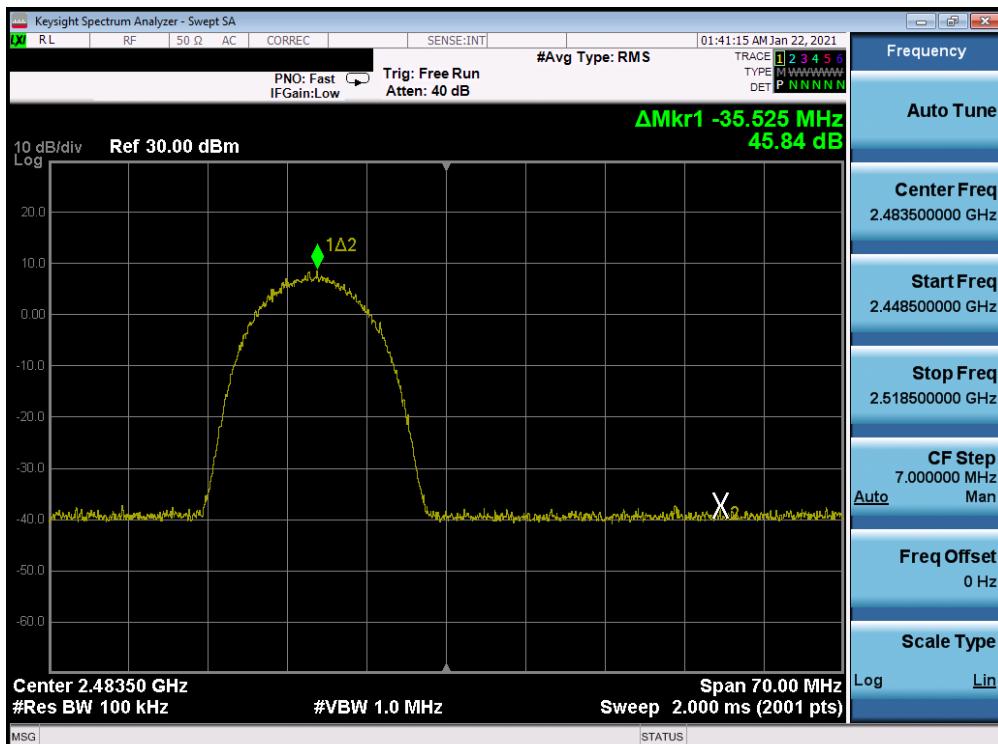


Plot 7-314. Band Edge Plot Antenna 2a (802.11b – Ch. 11) – 11Mbps

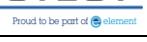
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 204 of 345

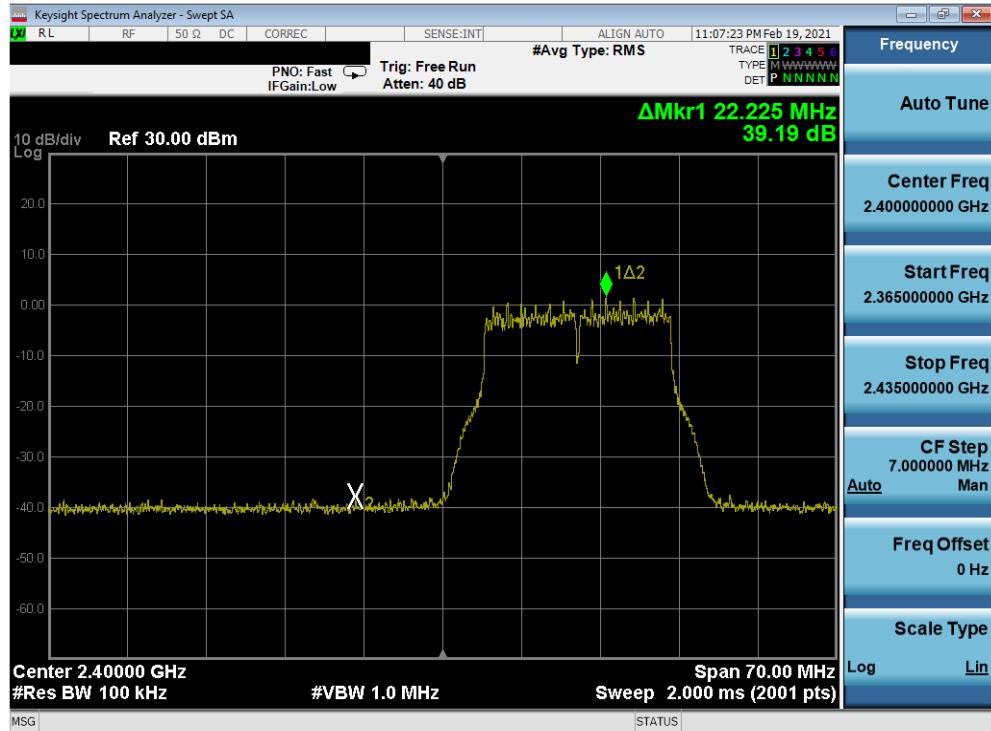


Plot 7-315. Band Edge Plot Antenna 2a (802.11b – Ch. 12) – 11Mbps

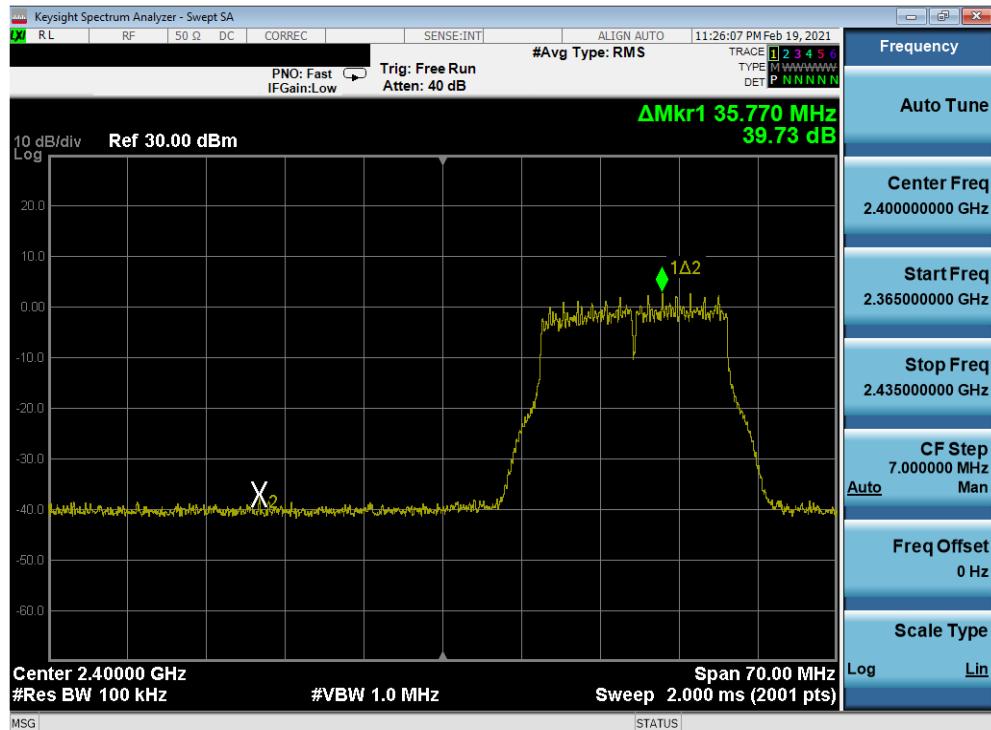


Plot 7-316. Band Edge Plot Antenna 2a (802.11b – Ch. 13) – 11Mbps

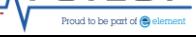
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 205 of 345	

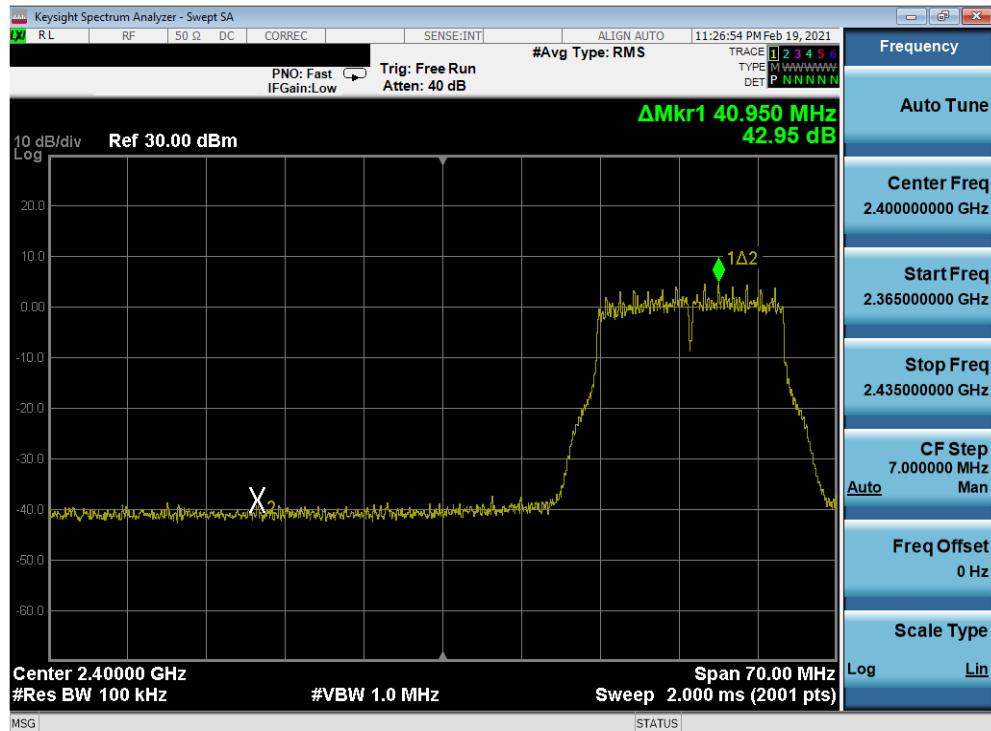


Plot 7-317. Band Edge Plot Antenna 2a (802.11g– Ch. 1) – 54Mbps

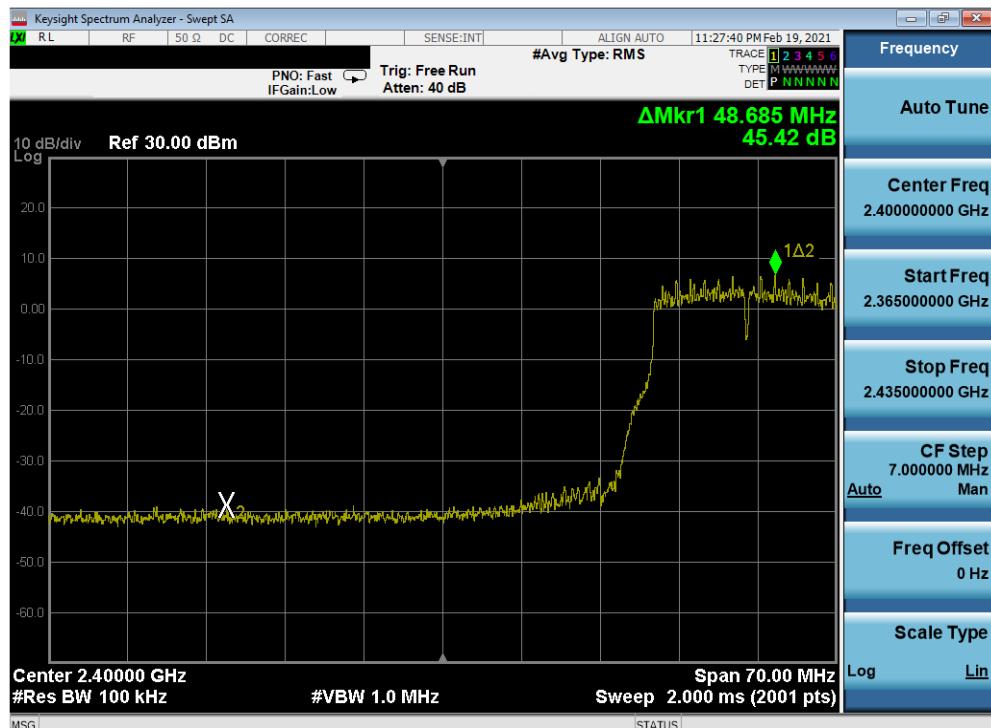


Plot 7-318. Band Edge Plot Antenna 2a (802.11g– Ch. 2) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 206 of 345	

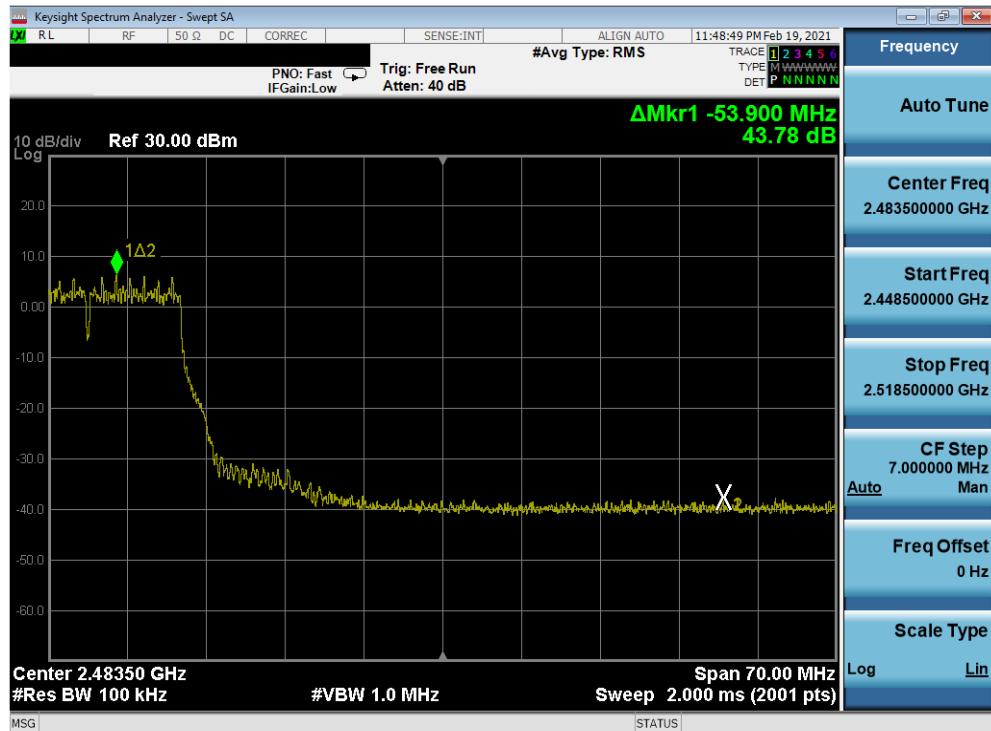


Plot 7-319. Band Edge Plot Antenna 2a (802.11g – Ch. 3) – 54Mbps

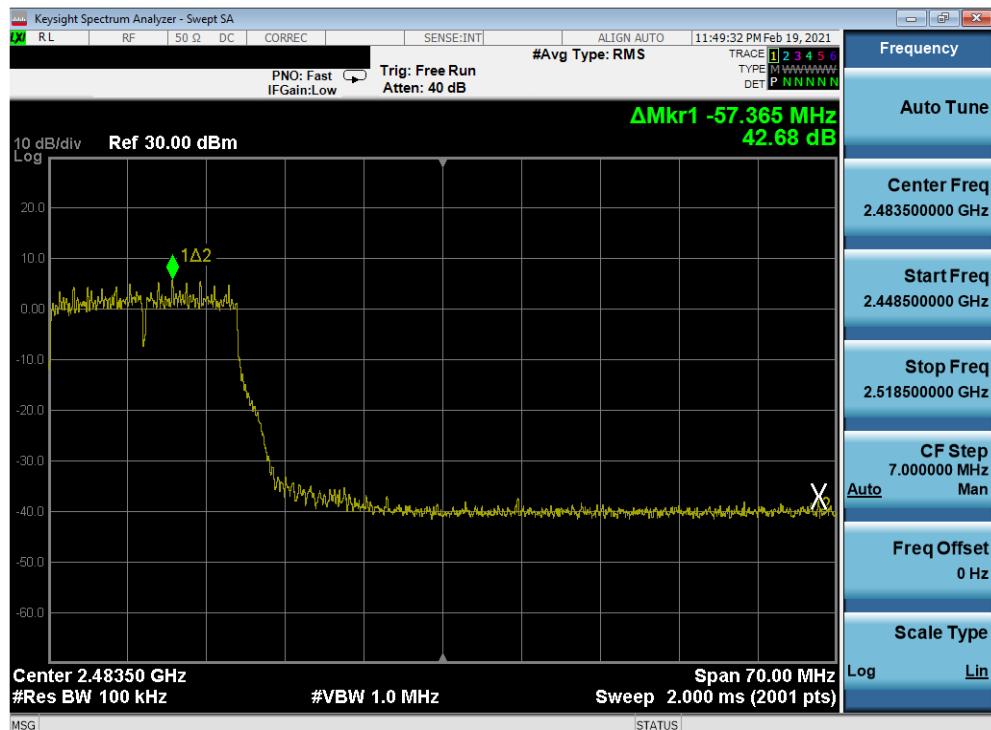


Plot 7-320. Band Edge Plot Antenna 2a (802.11g – Ch. 4) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 207 of 345	

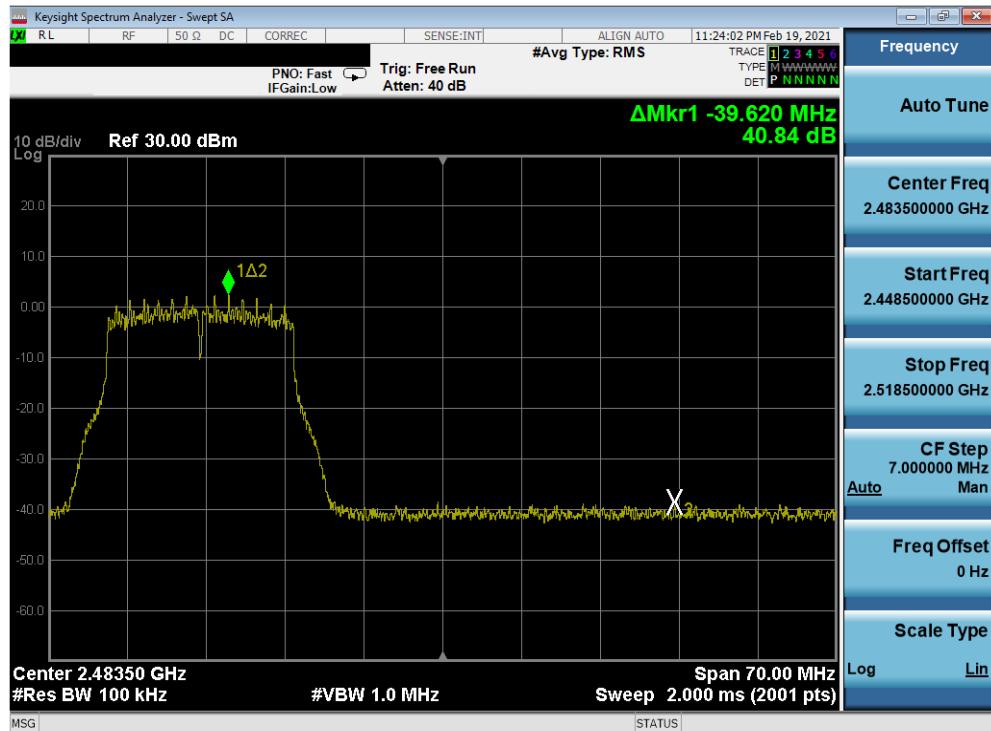


Plot 7-321. Band Edge Plot Antenna 2a (802.11g – Ch. 9) – 54Mbps

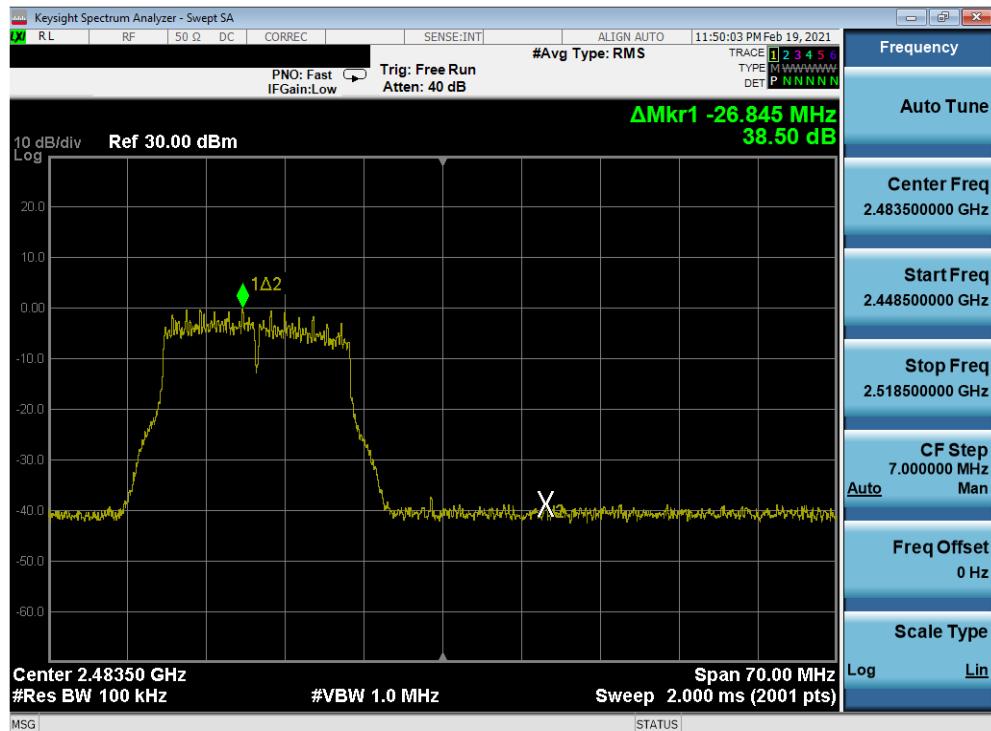


Plot 7-322. Band Edge Plot Antenna 2a (802.11g – Ch. 10) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 208 of 345	

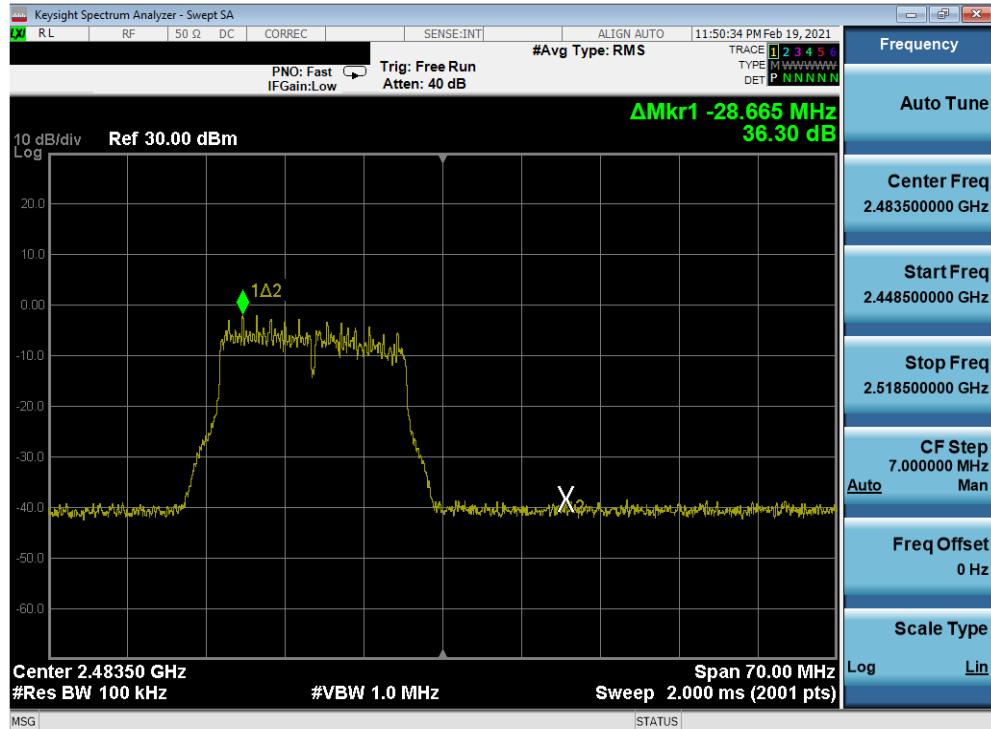


Plot 7-323. Band Edge Plot Antenna 2a (802.11g – Ch. 11) – 54Mbps

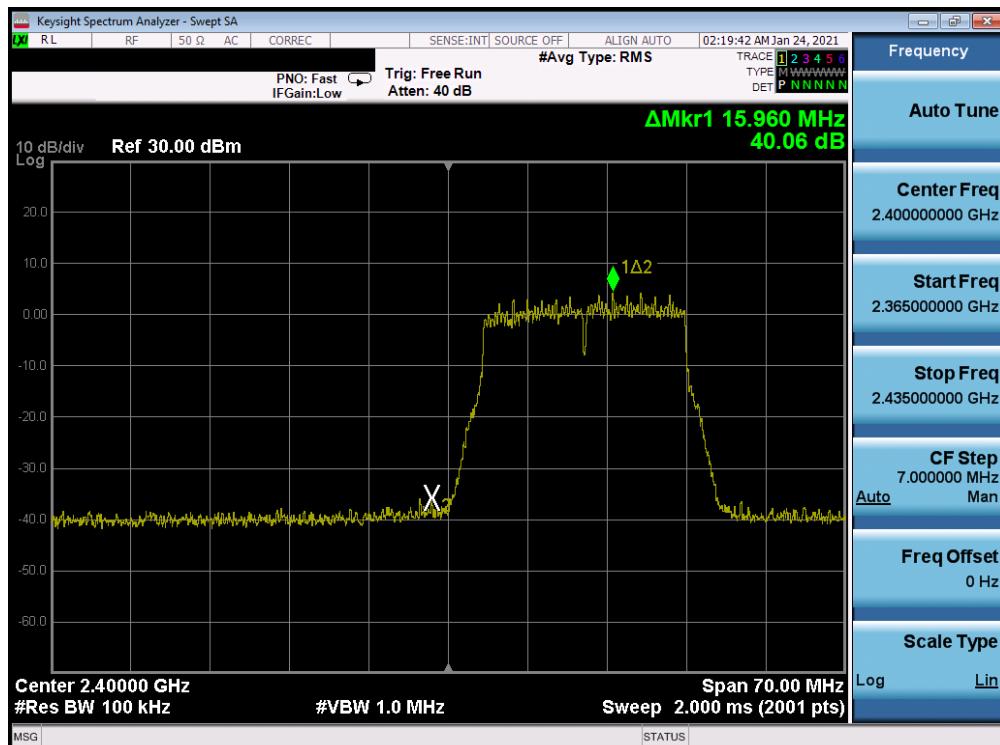


Plot 7-324. Band Edge Plot Antenna 2a (802.11g – Ch. 12) – 54Mbps

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 209 of 345	

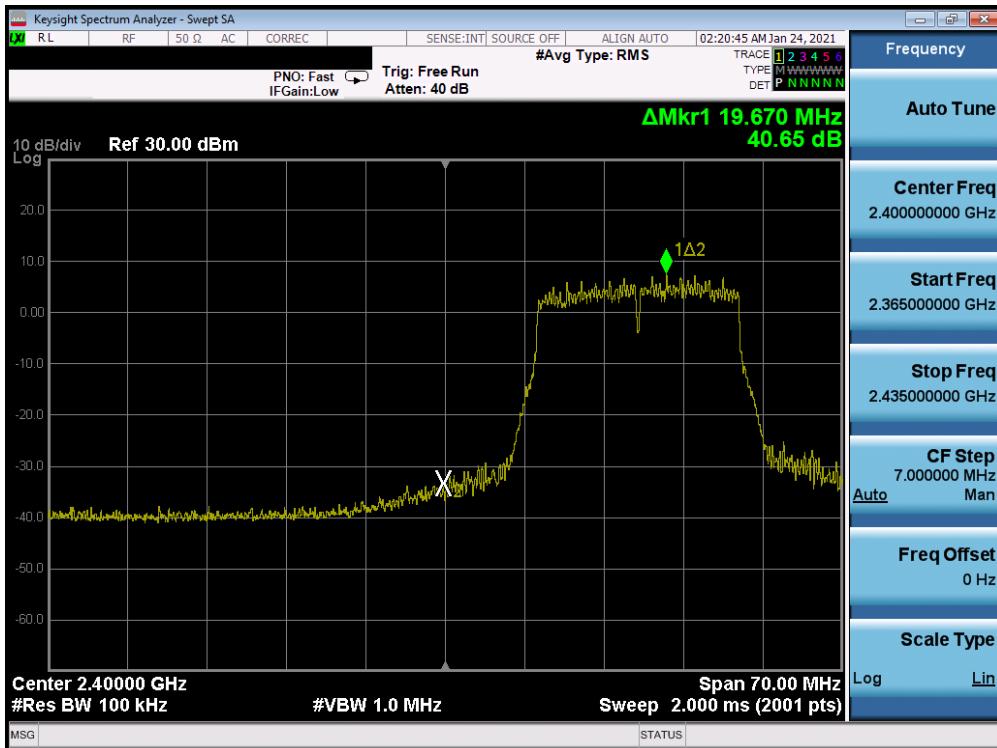


Plot 7-325. Band Edge Plot Antenna 2a (802.11g – Ch. 13) – 54Mbps

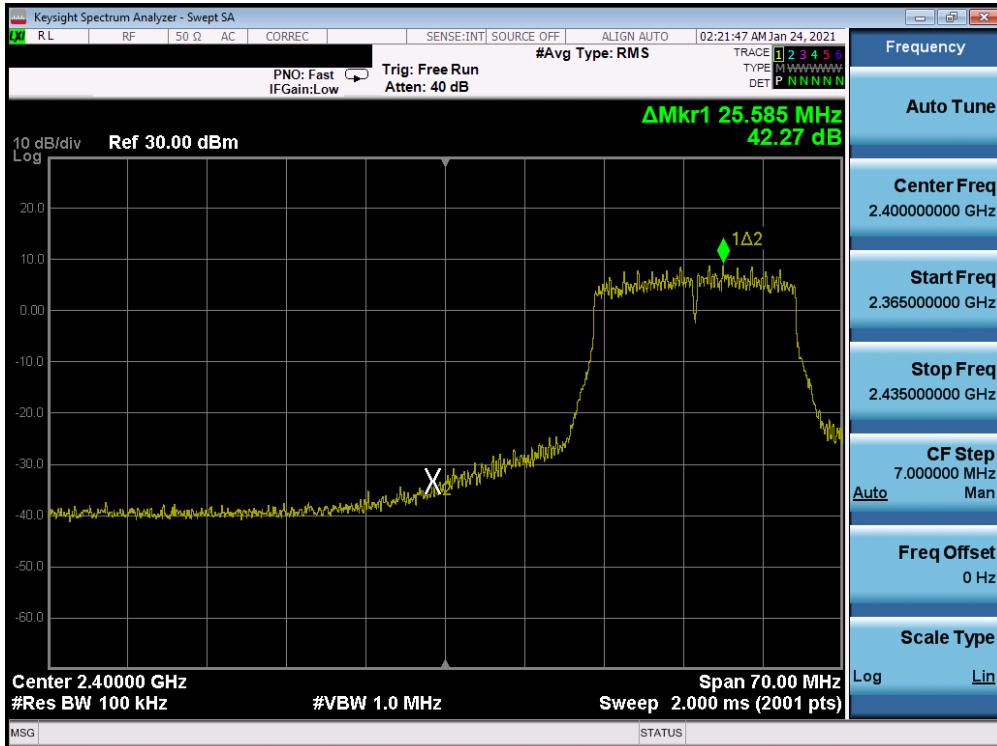


Plot 7-326. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 1) – MCS7

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 210 of 345	

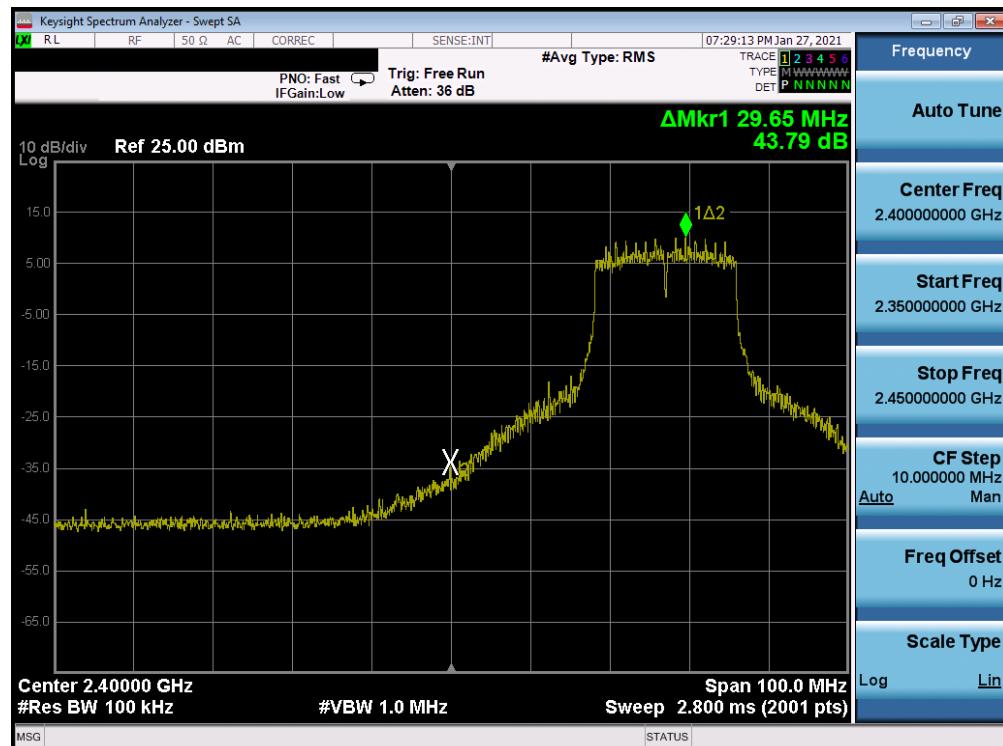


Plot 7-327. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 2) – MCS7

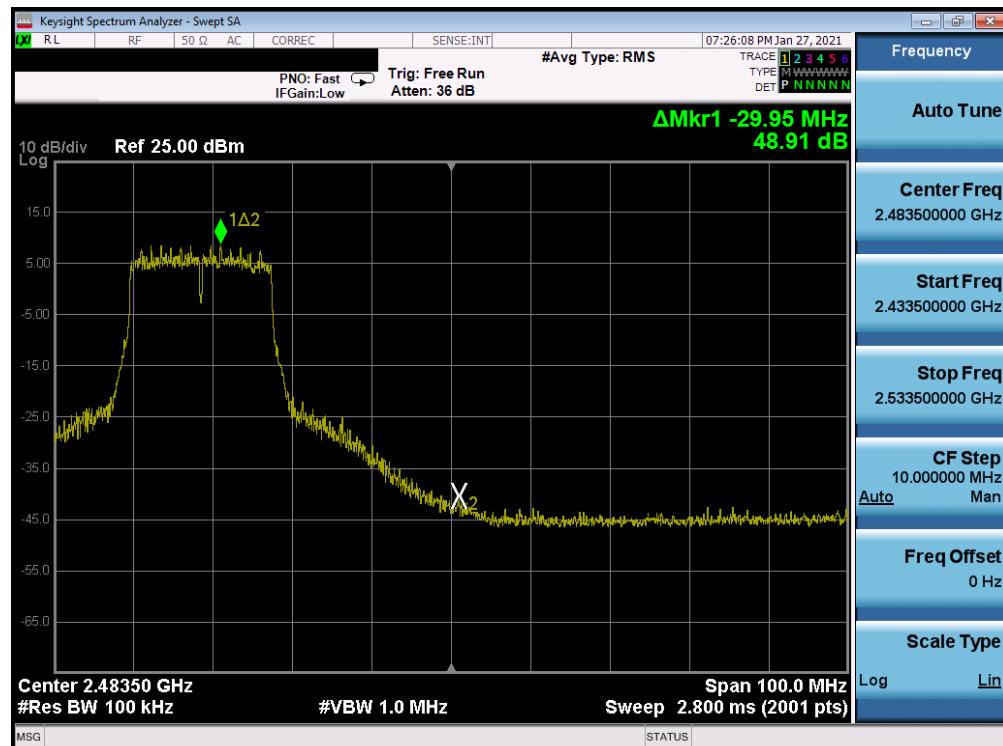


Plot 7-328. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 3) – MCS7

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 211 of 345

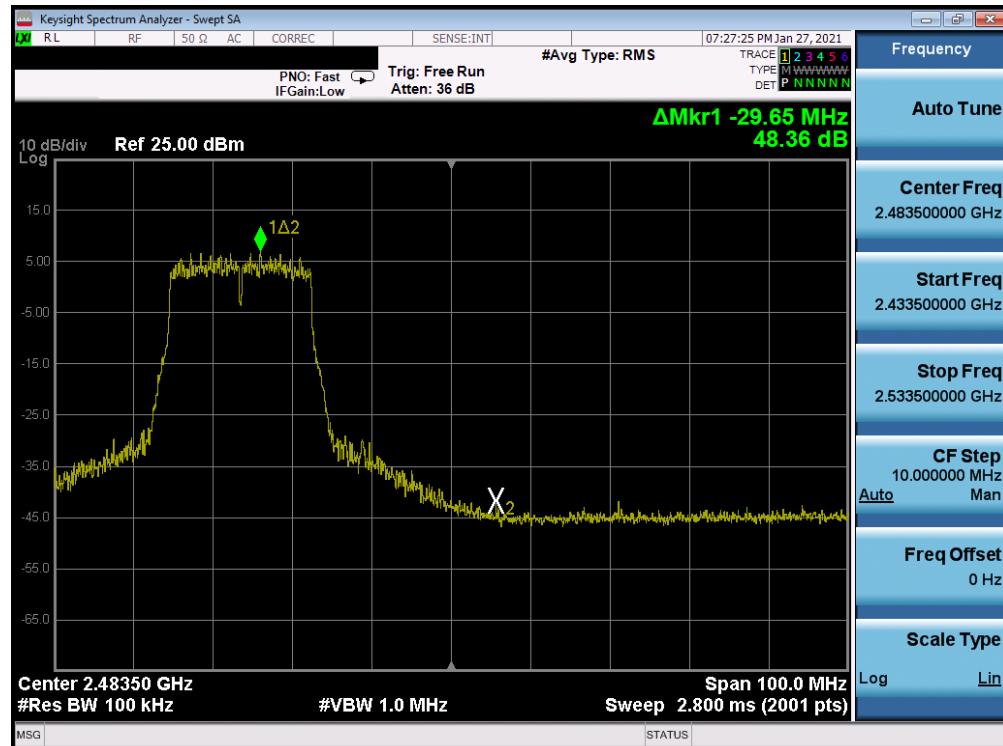


Plot 7-329. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 4) – MCS7

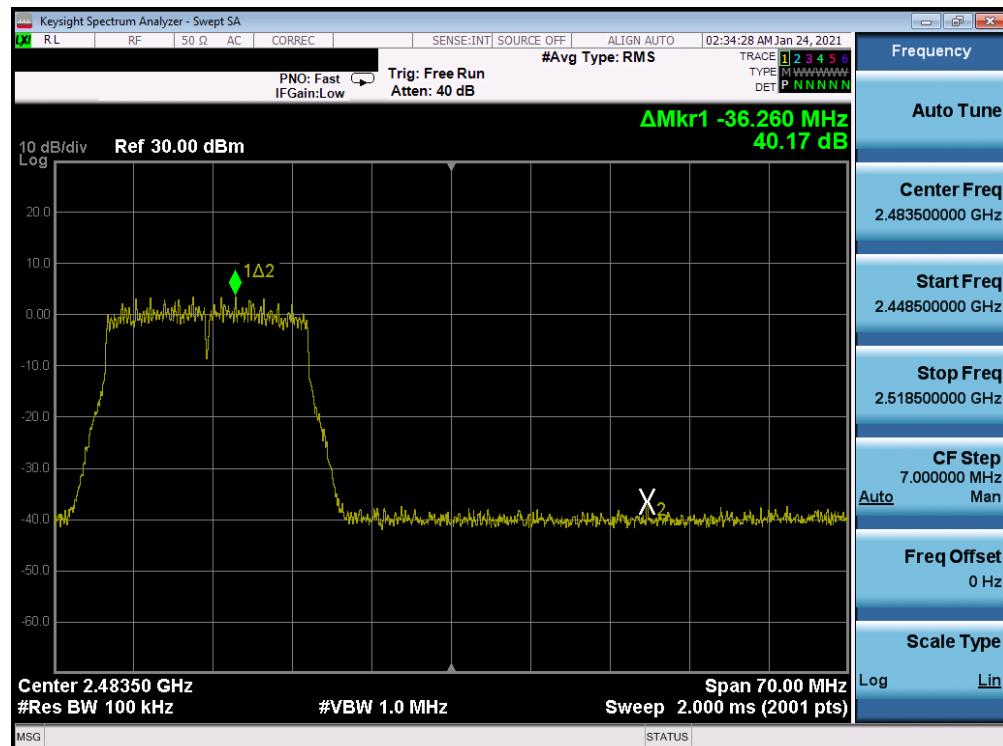


Plot 7-330. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 9) – MCS7

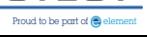
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 212 of 345

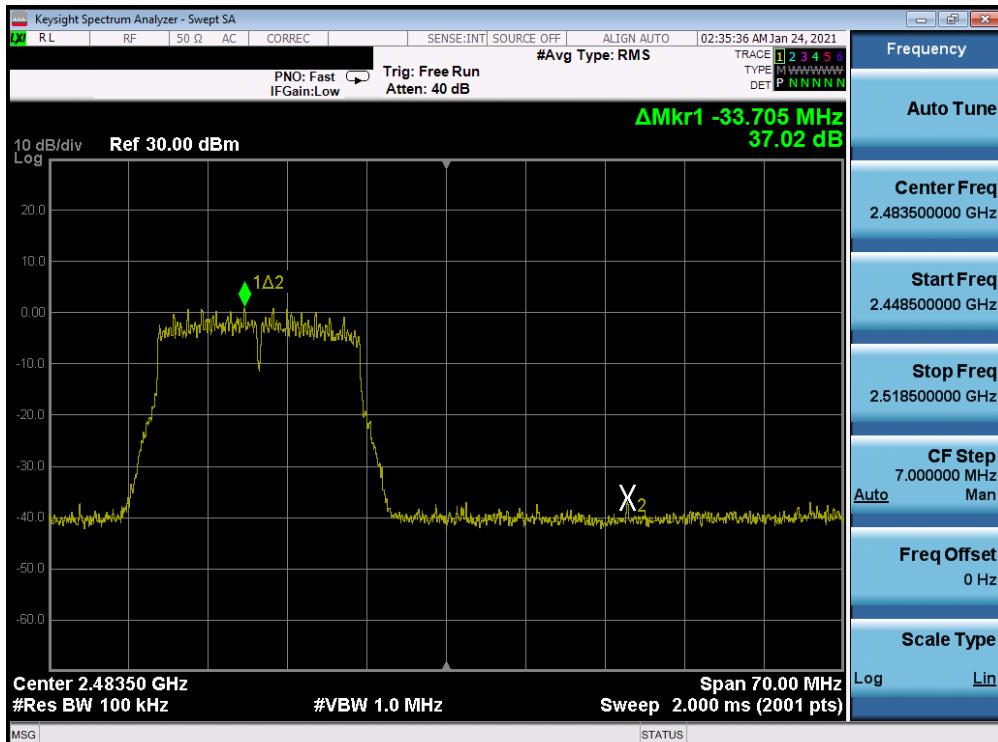


Plot 7-331. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 10) – MCS7

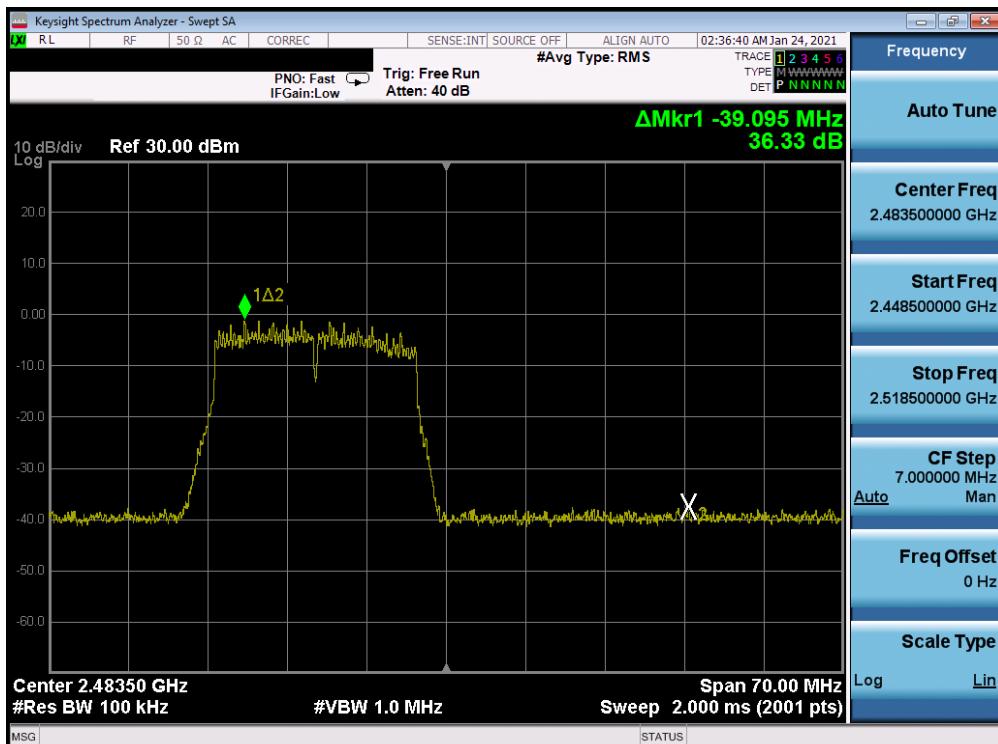


Plot 7-332. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 11) – MCS7

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 213 of 345

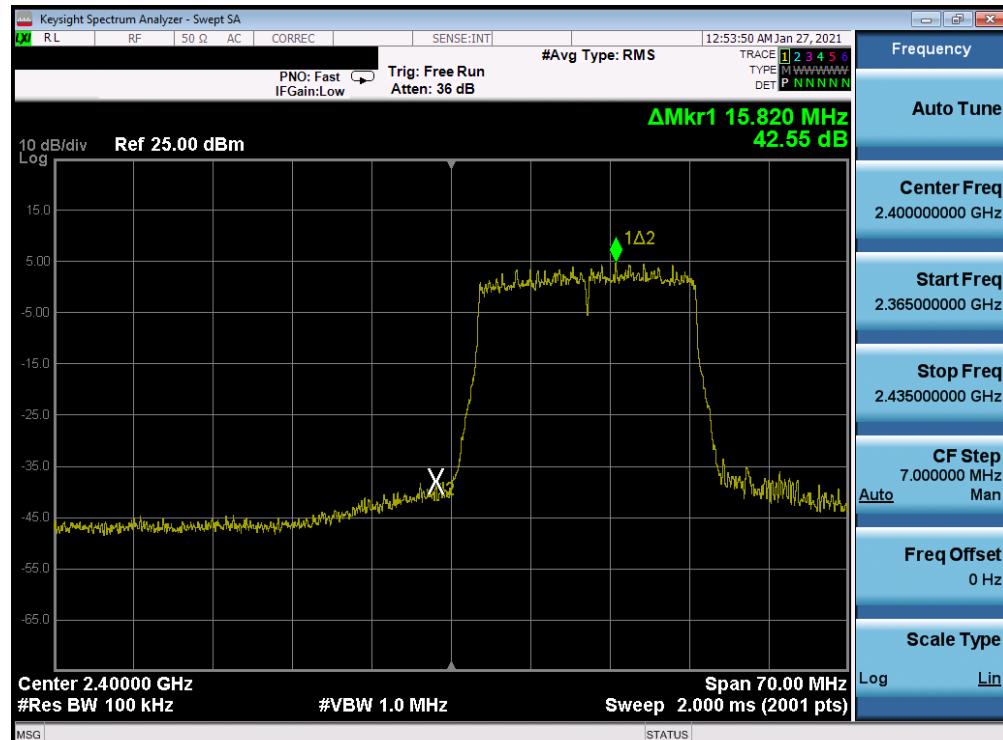


Plot 7-333. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 12) – MCS7

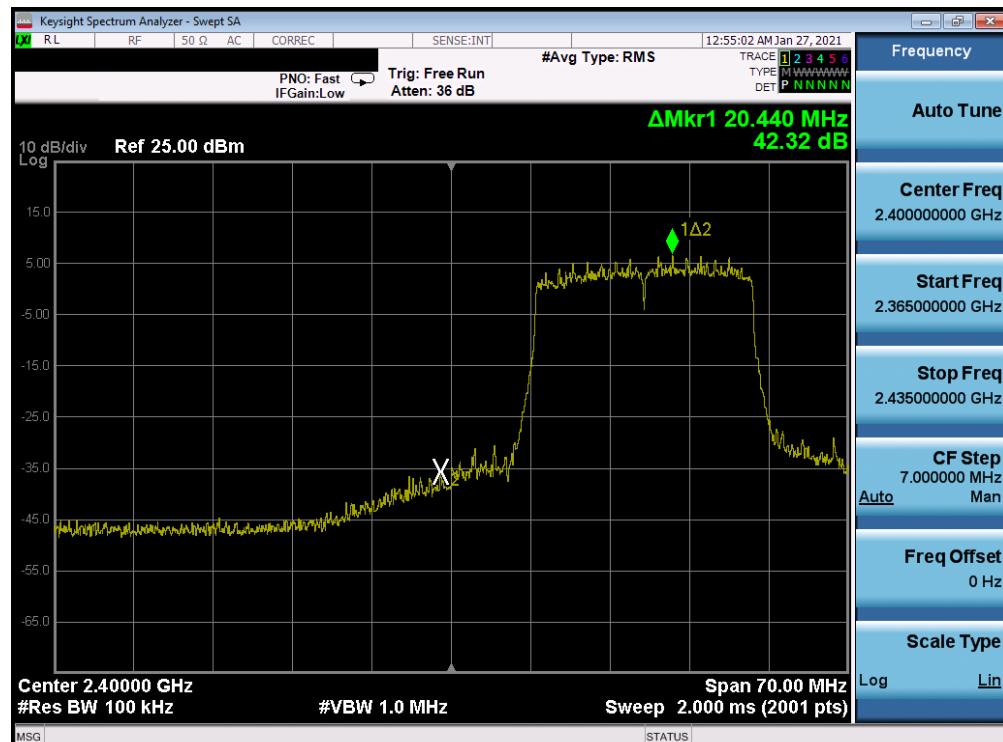


Plot 7-334. Band Edge Plot Antenna 2a (802.11n (2.4GHz) – Ch. 13) – MCS7

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 214 of 345

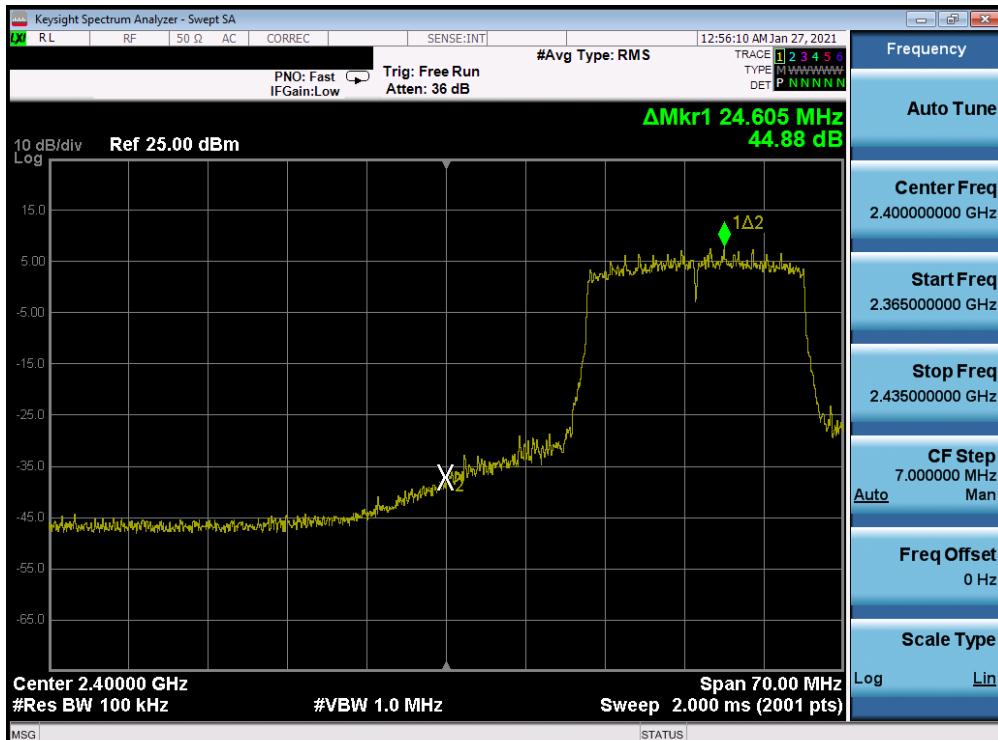


Plot 7-335. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 1) – MCS5

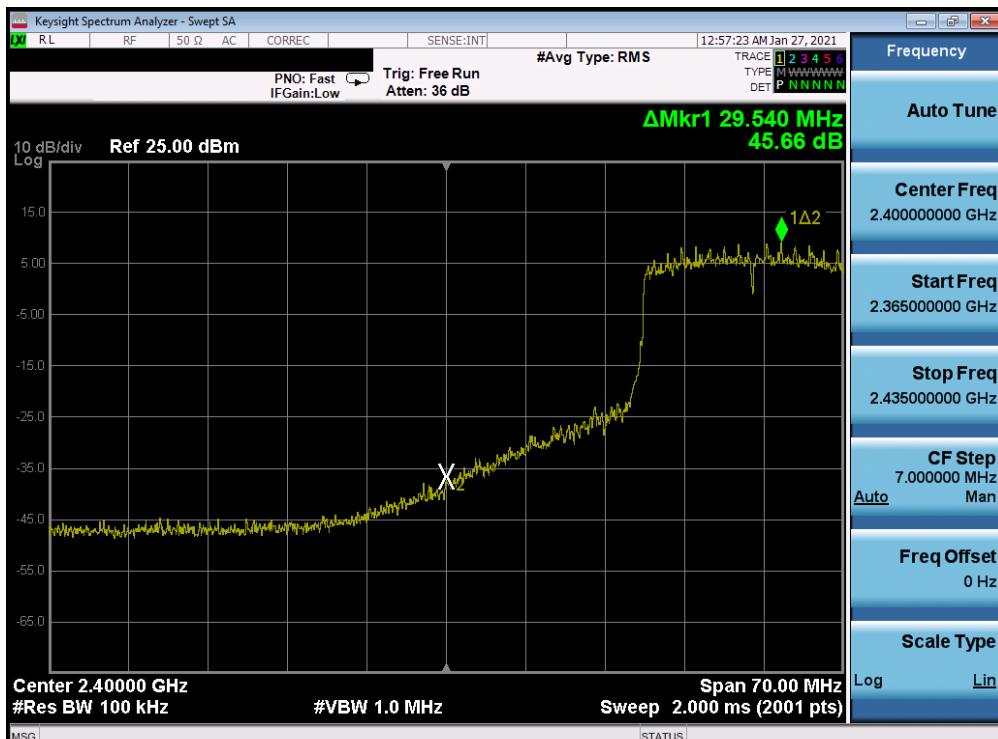


Plot 7-336. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 2) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 215 of 345	

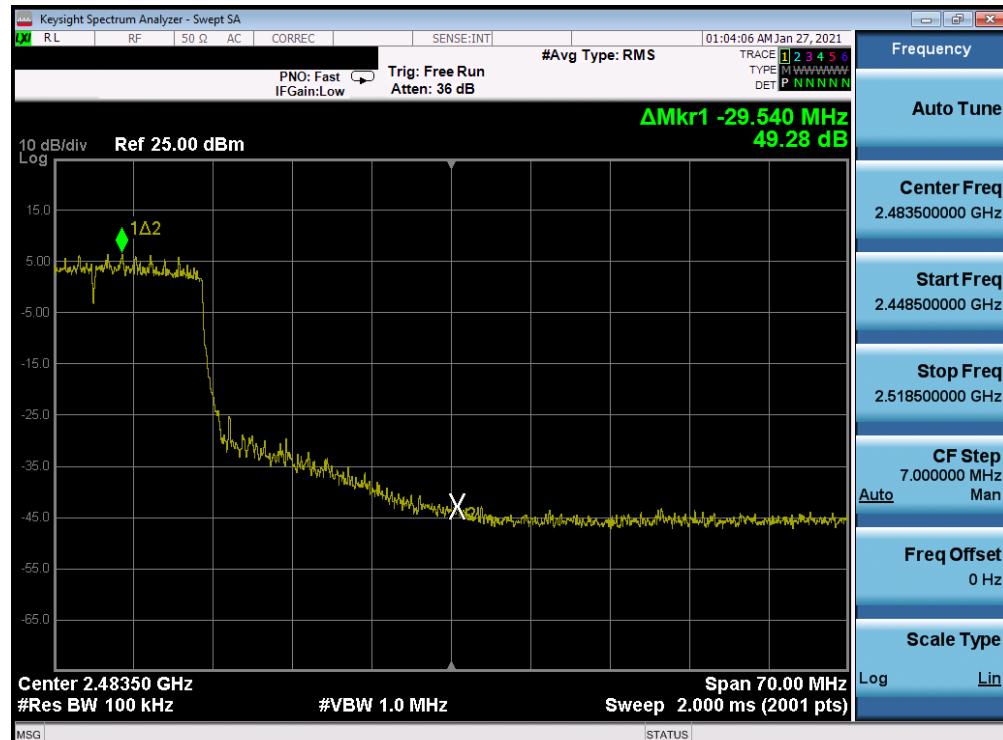


Plot 7-337. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 3) – MCS5

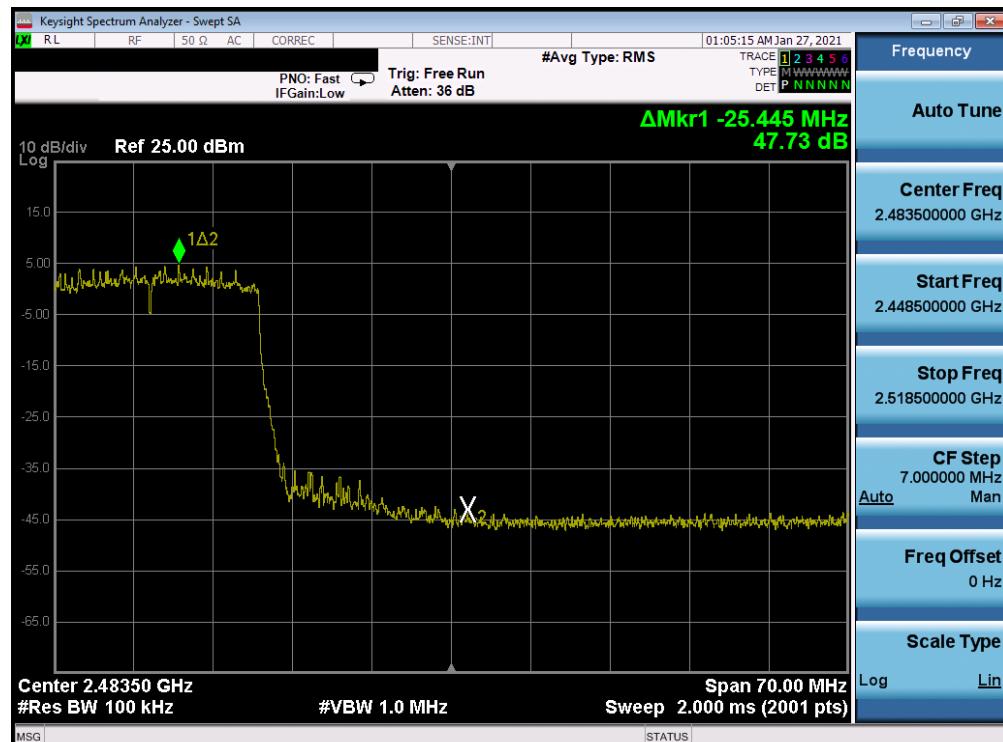


Plot 7-338. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 4) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 216 of 345

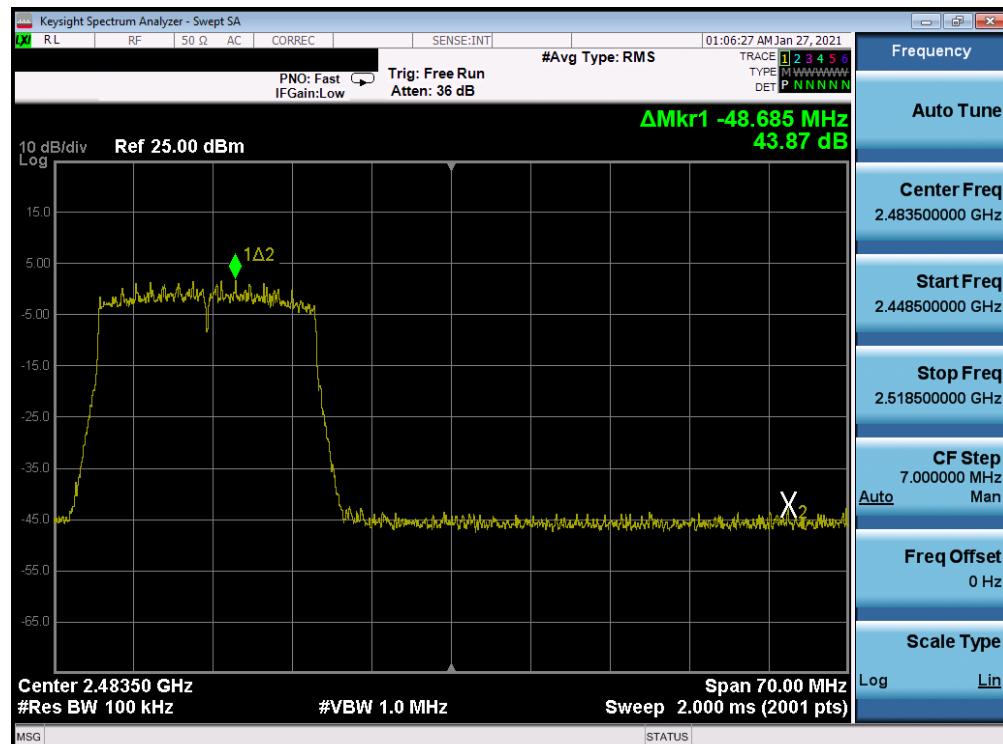


Plot 7-339. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 9) – MCS5

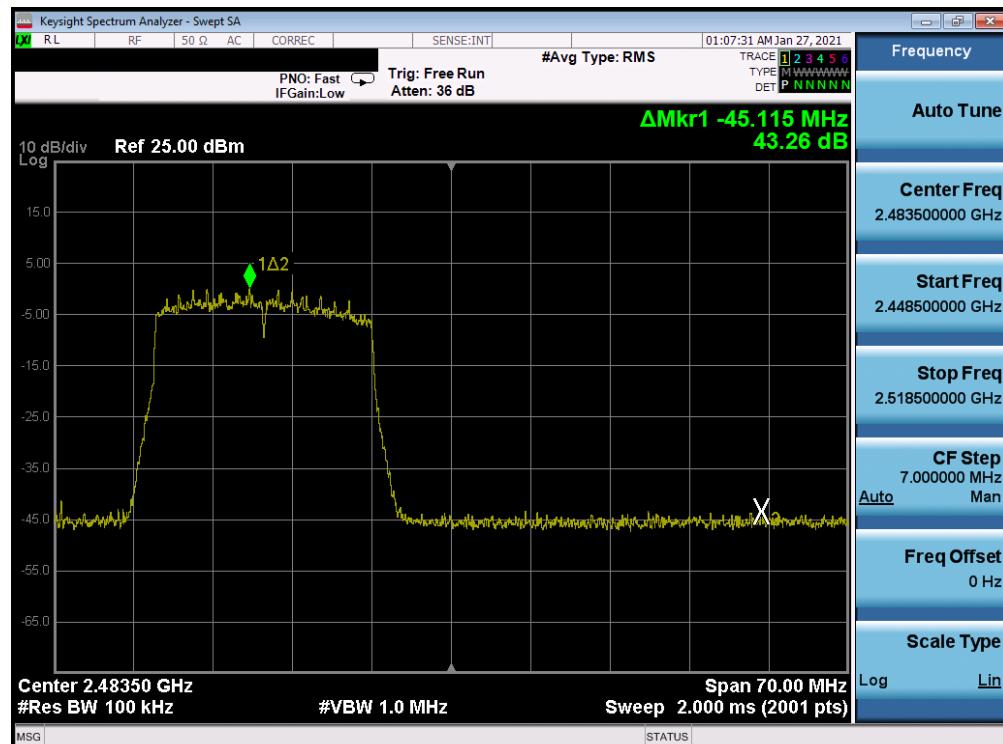


Plot 7-340. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 10) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 217 of 345



Plot 7-341. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 11) – MCS5



Plot 7-342. Band Edge Plot Antenna 2a (802.11ax (SU - 2.4GHz) – Ch. 12) – MCS5

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 218 of 345

7.6 Conducted Spurious Emissions

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for "b", "g", "n", "ax-SU" modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in "b" mode at 11 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.11 of ANSI C63.10-2013 and KDB 558074 D01 v05r02.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
 KDB 558074 D01 v05r02 – Section 8.5
 ANSI C63.10-2013 – Section 14.3.3
 KDB 662911 D01 v02r01 – Section E(3)b)

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The 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

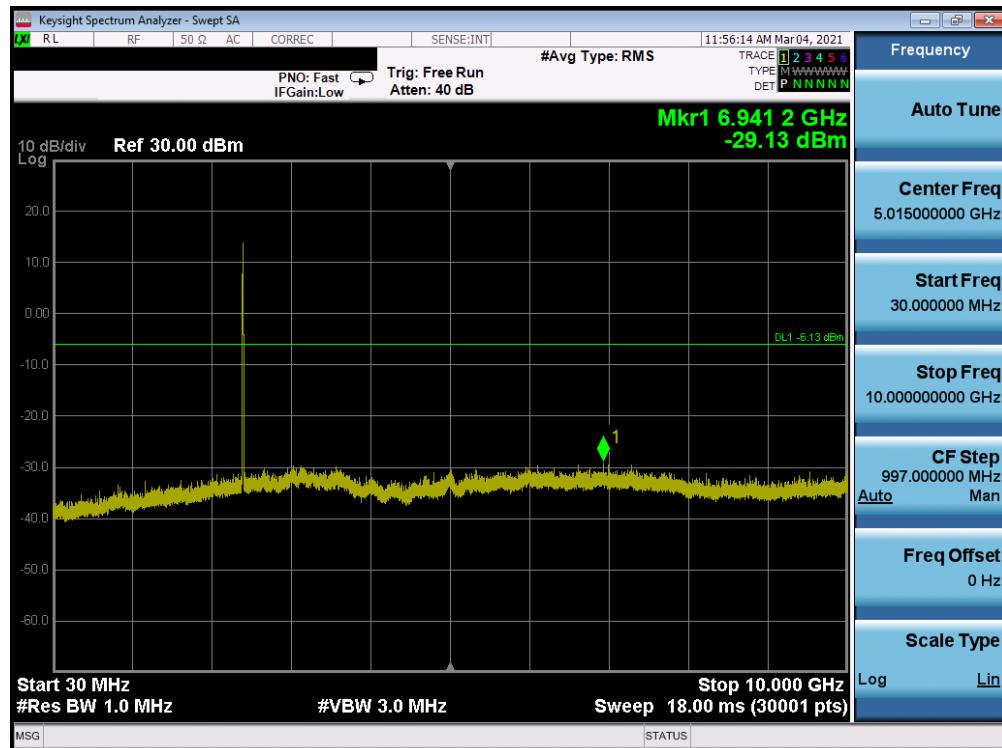
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C2101020002-09.BCG	Test Dates: 12/15/2020-3/6/2021	EUT Type: Tablet Device	Page 219 of 345

Test Notes

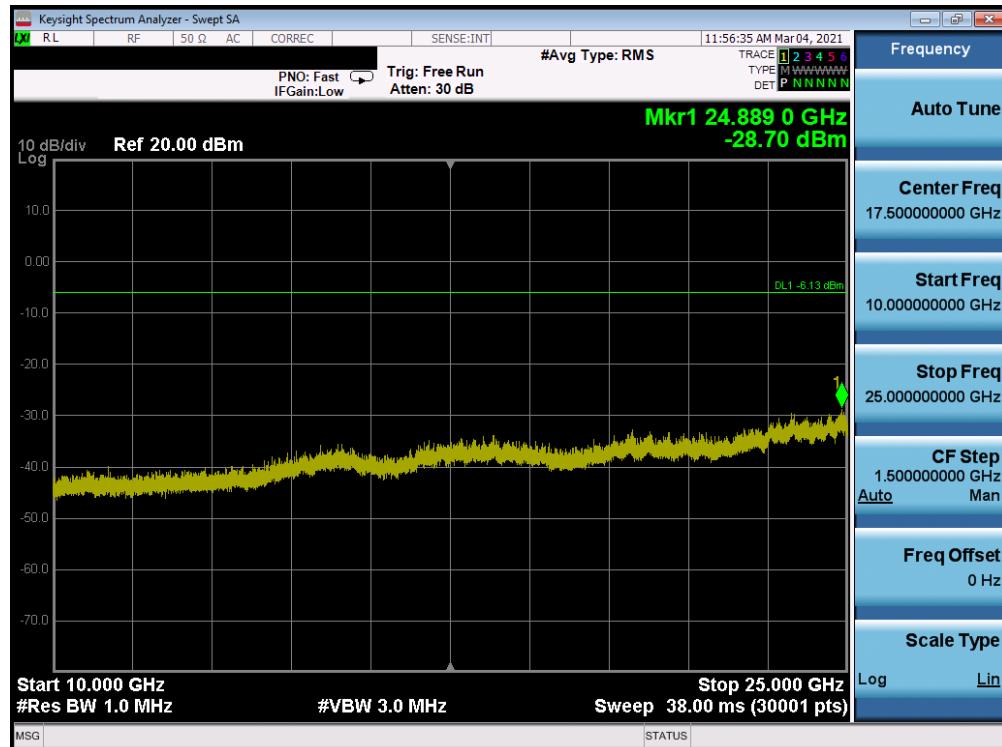
1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.
5. All antenna configurations were investigated and only the worst case is reported.

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Antenna 4a Conducted Spurious Emission

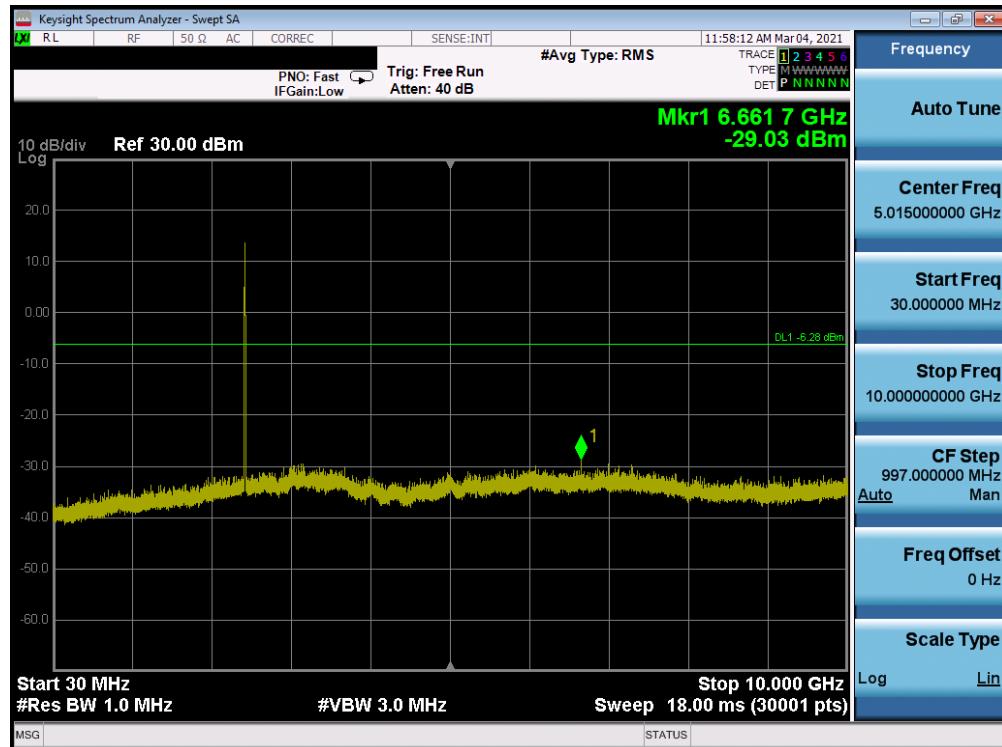


Plot 7-343. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 1)

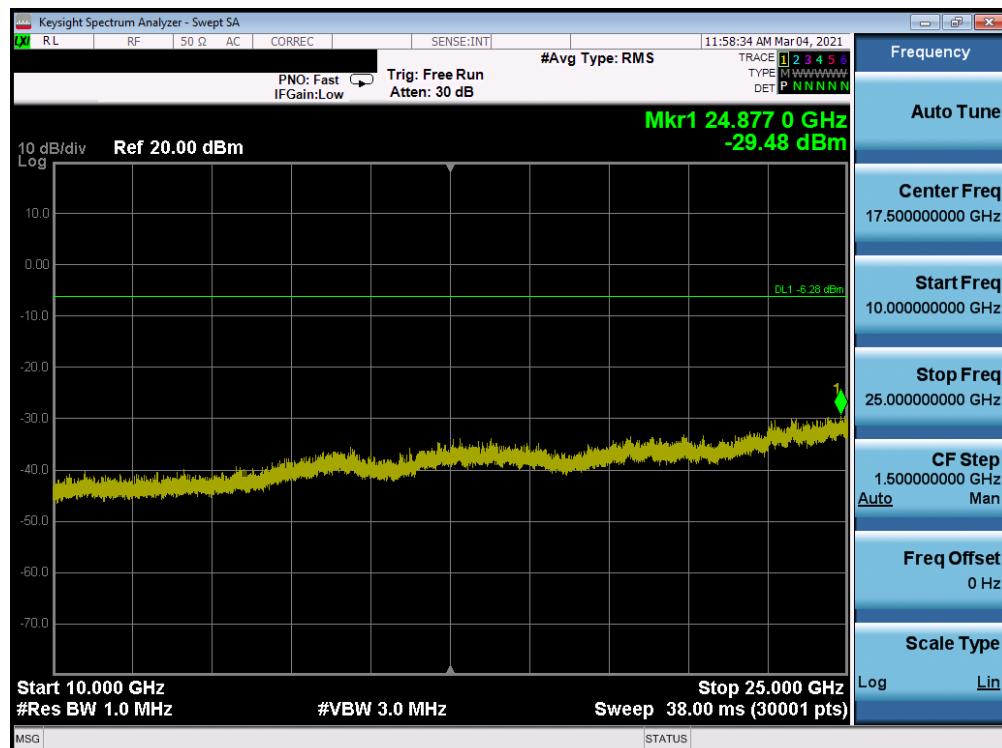


Plot 7-344. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 1)

FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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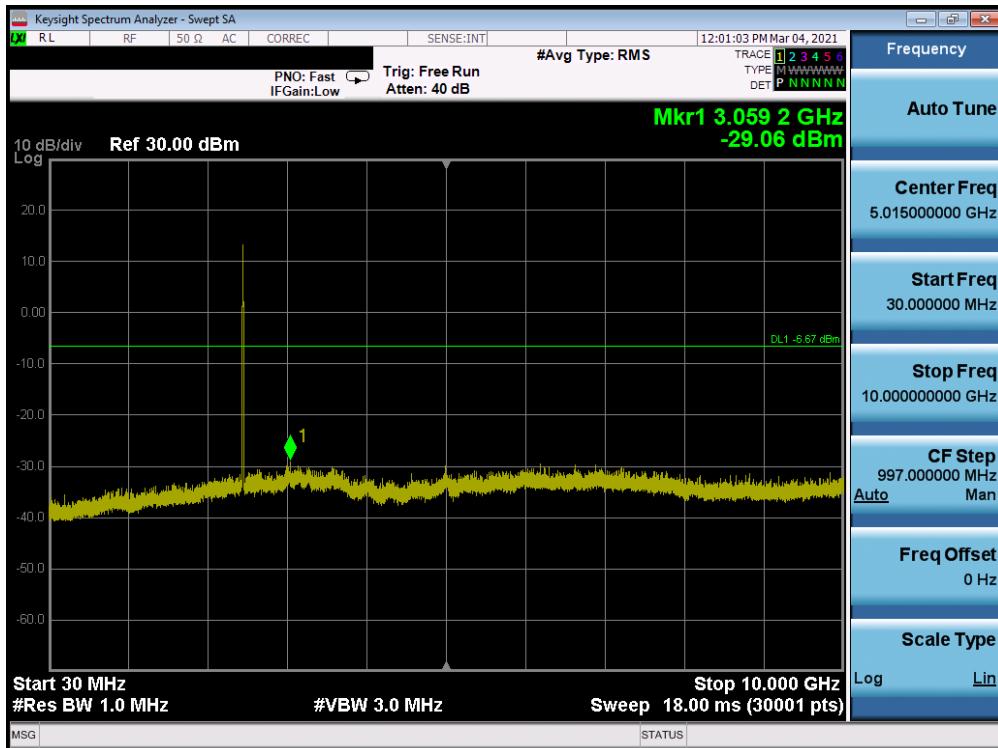


Plot 7-345. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 6)

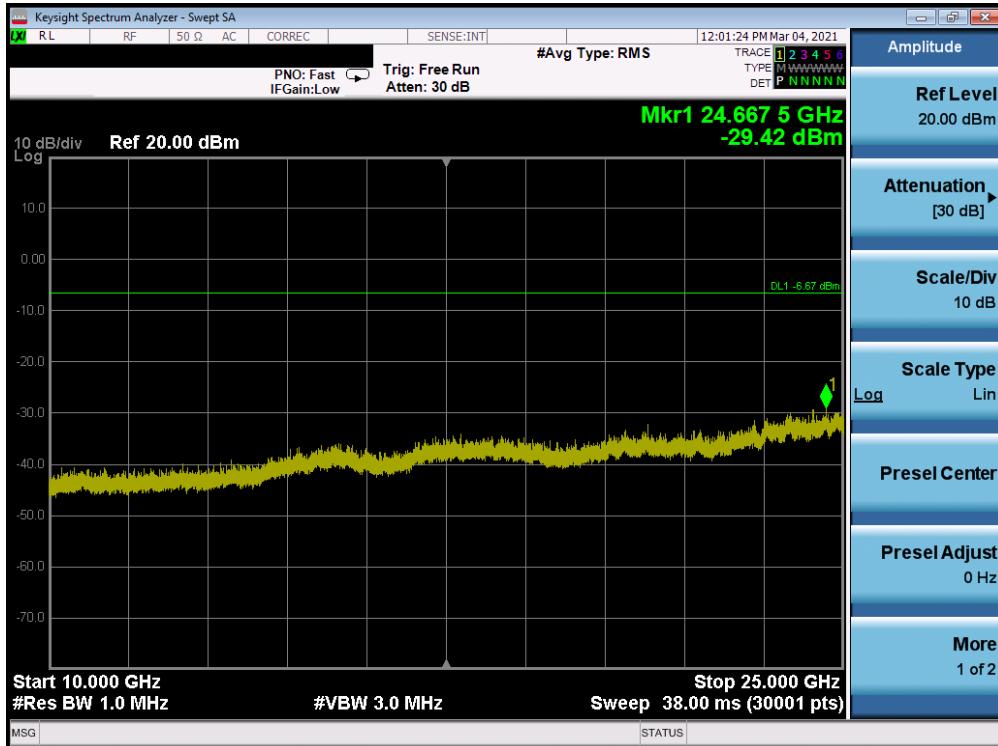


Plot 7-346. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 6)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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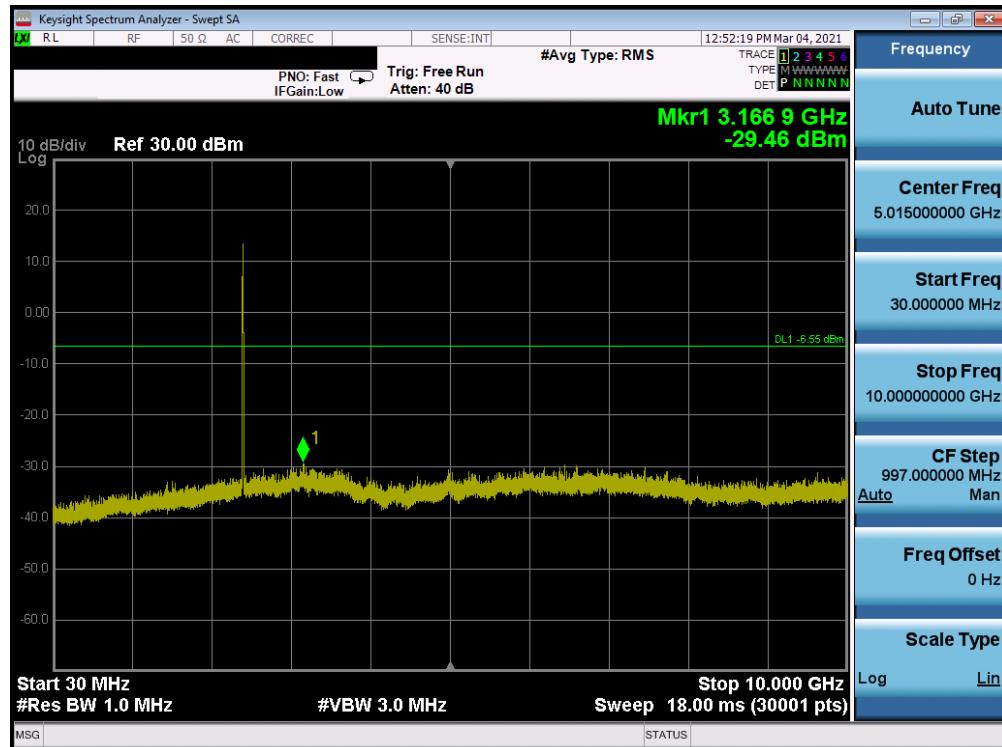
Plot 7-347. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 11)



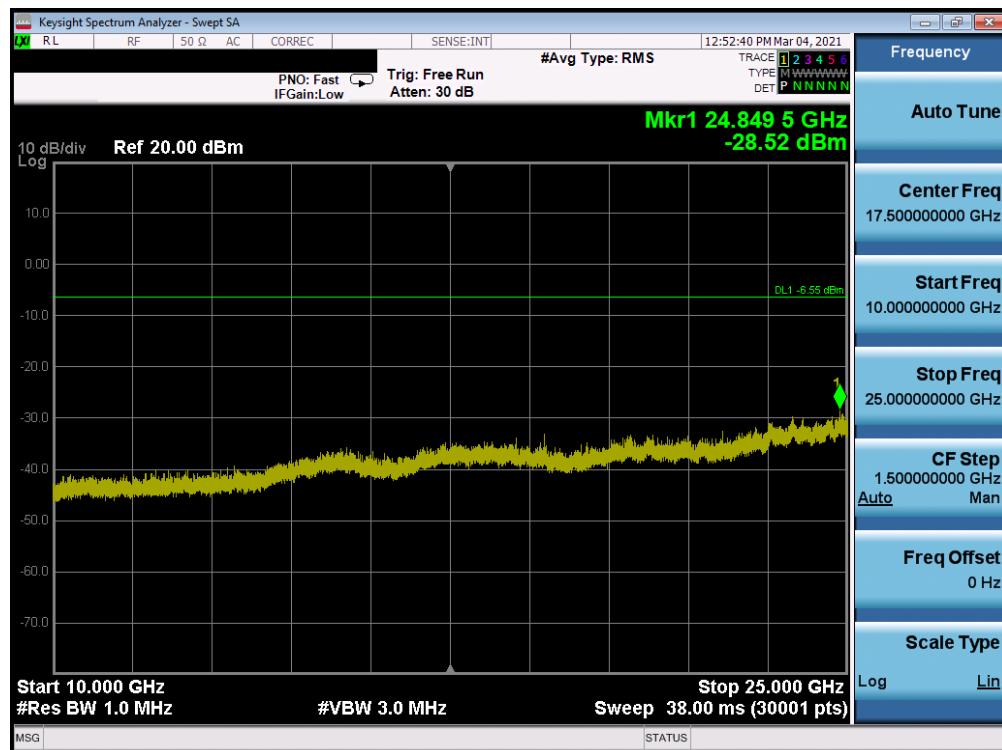
Plot 7-348. Conducted Spurious Plot Antenna 4a (802.11b – Ch. 11)

FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Antenna 2a Conducted Spurious Emissions

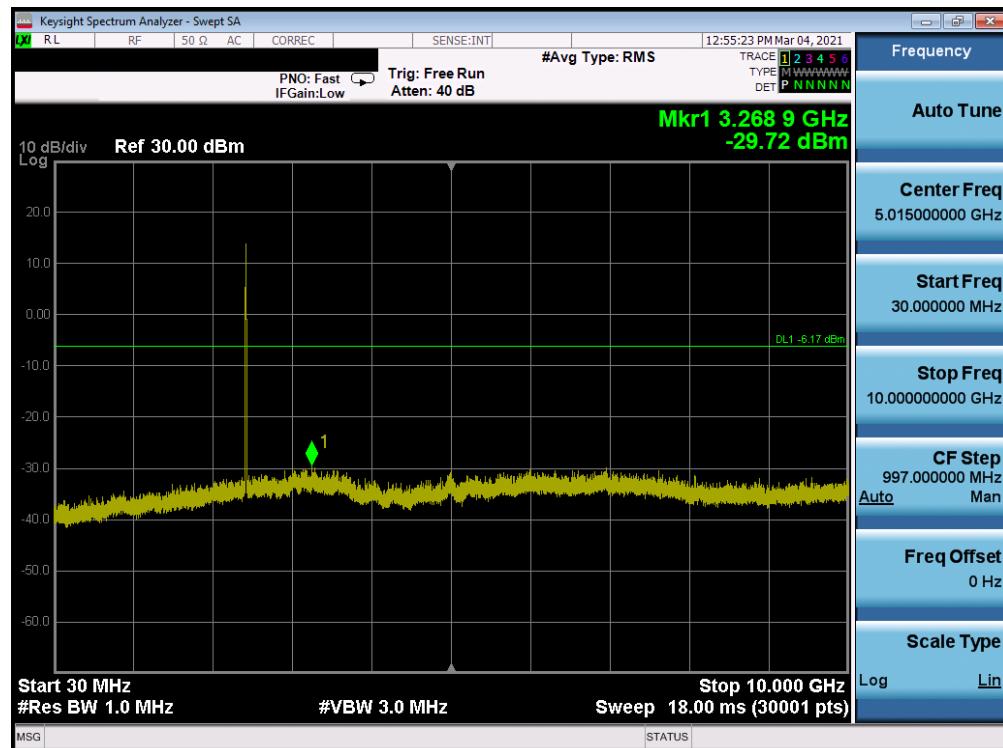


Plot 7-349. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 1)

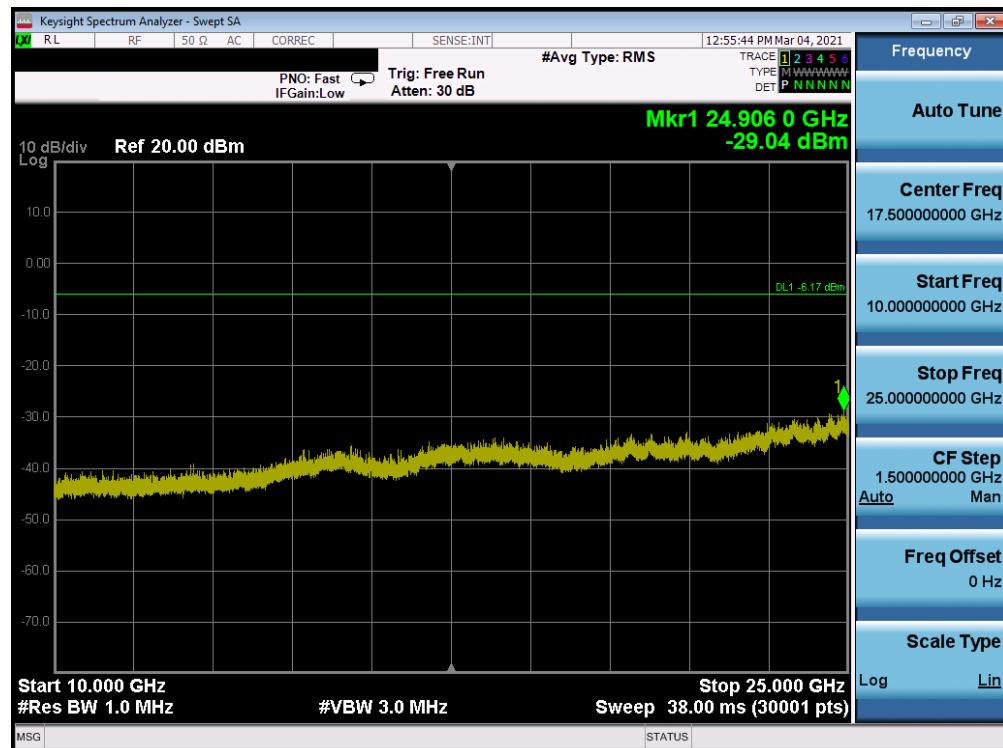


Plot 7-350. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 1)

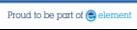
FCC ID: BCGA2301 IC: 579C-A2301	 PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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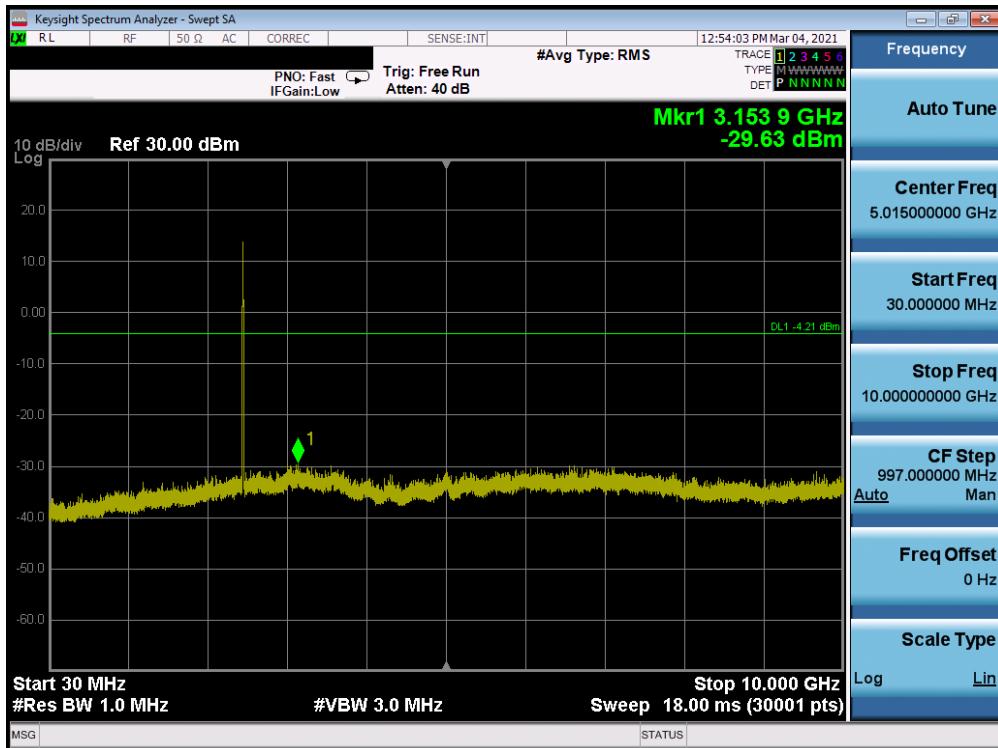


Plot 7-351. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 6)

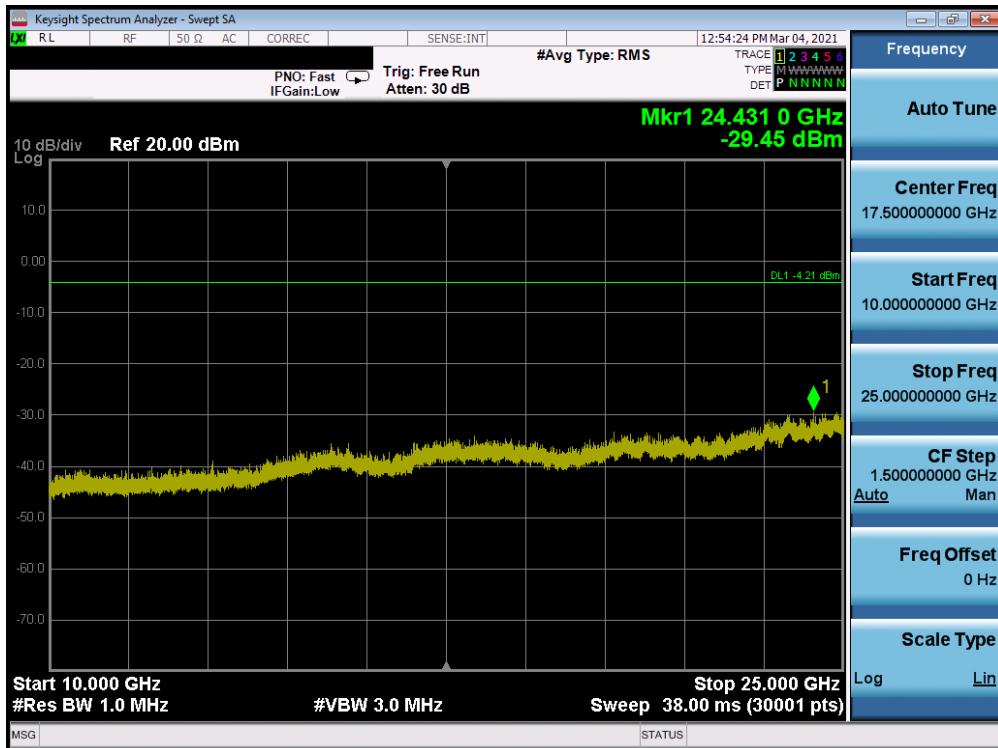


Plot 7-352. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 6)

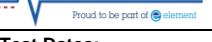
FCC ID: BCGA2301 IC: 579C-A2301	PCTEST® Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-353. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 11)



Plot 7-354. Conducted Spurious Plot Antenna 2a (802.11b – Ch. 11)

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7.7 Radiated Spurious Emissions – Above 1 GHz

§15.247(d) §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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-47 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-47. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Section 6.6.4.3
 KDB 558074 D01 v05r02 – Sections 8.6, 8.7

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 $\geq 2 \times$ span/RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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

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Test Setup

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

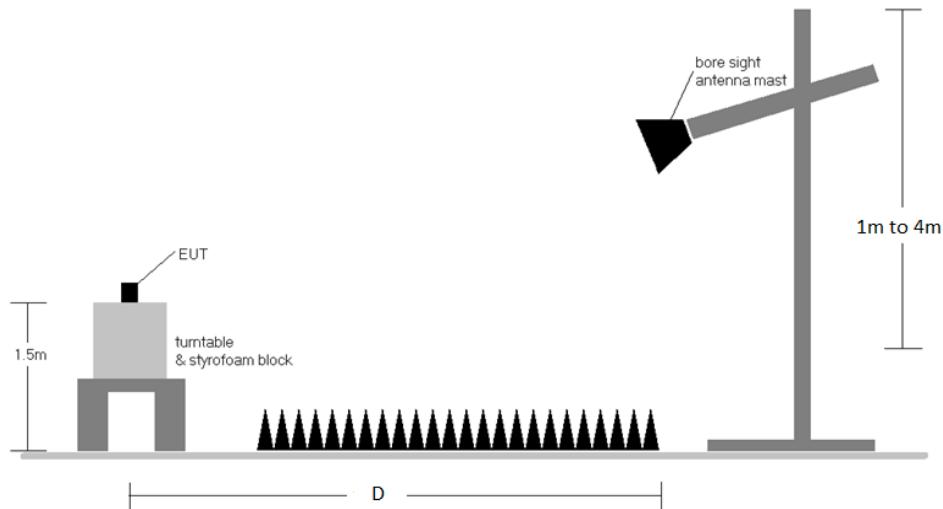


Figure 7-6. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-47.
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 wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. All antenna configurations were investigated and only the worst case is reported.
10. The unit was tested with all possible modes and only the highest emission is reported.

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11. The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three data rate groups of data rate have been investigated and only the worst case data rate per group is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [$\text{dB}_{\mu\text{V/m}}$] = 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 [$\text{dB}_{\mu\text{V/m}}$] – Limit [$\text{dB}_{\mu\text{V/m}}$]

Radiated Band Edge Measurement Offset

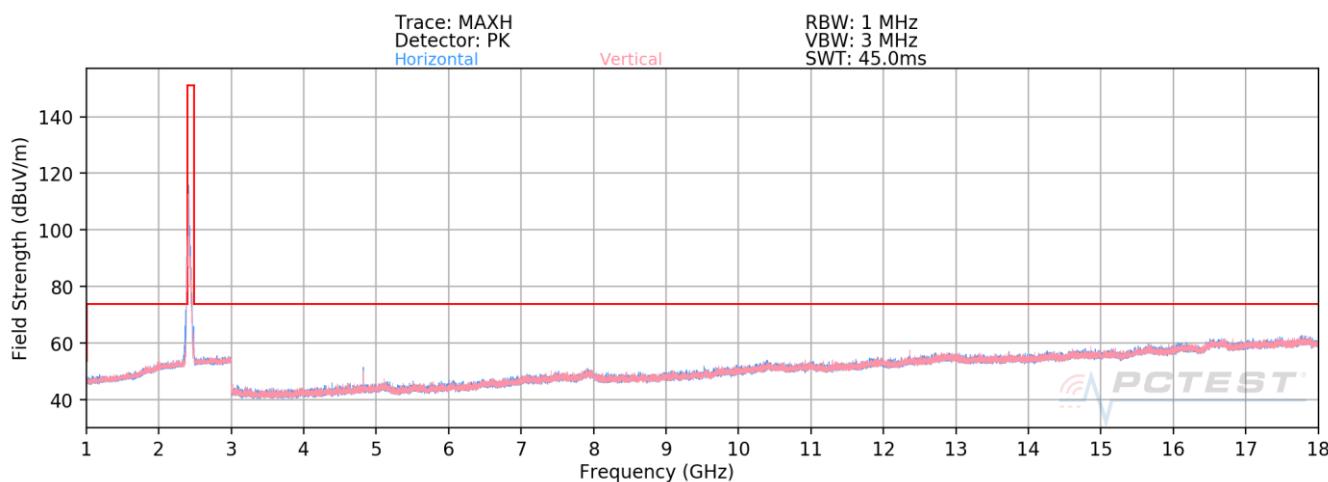
- The amplitude offset shown in the radiated restricted band edge plots in Section 7.7 was calculated using the formula:

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

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7.7.1 Antenna 4a Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



Plot 7-355. Radiated Spurious Emissions above 1GHz Antenna 4a (802.11b – Ch. 1)

Mode: 802.11b
 Data Rate: 11Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

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]
4824.00	Avg	V	318	196	-68.20	7.54	46.34	53.98	-7.64
4824.00	Peak	V	318	196	-63.99	7.54	50.55	73.98	-23.43
12060.00	Avg	H	-	-	-85.25	17.07	38.82	53.98	-15.16
12060.00	Peak	H	-	-	-72.64	17.07	51.43	73.98	-22.55

Table 7-48. Radiated Measurements Antenna 4a

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