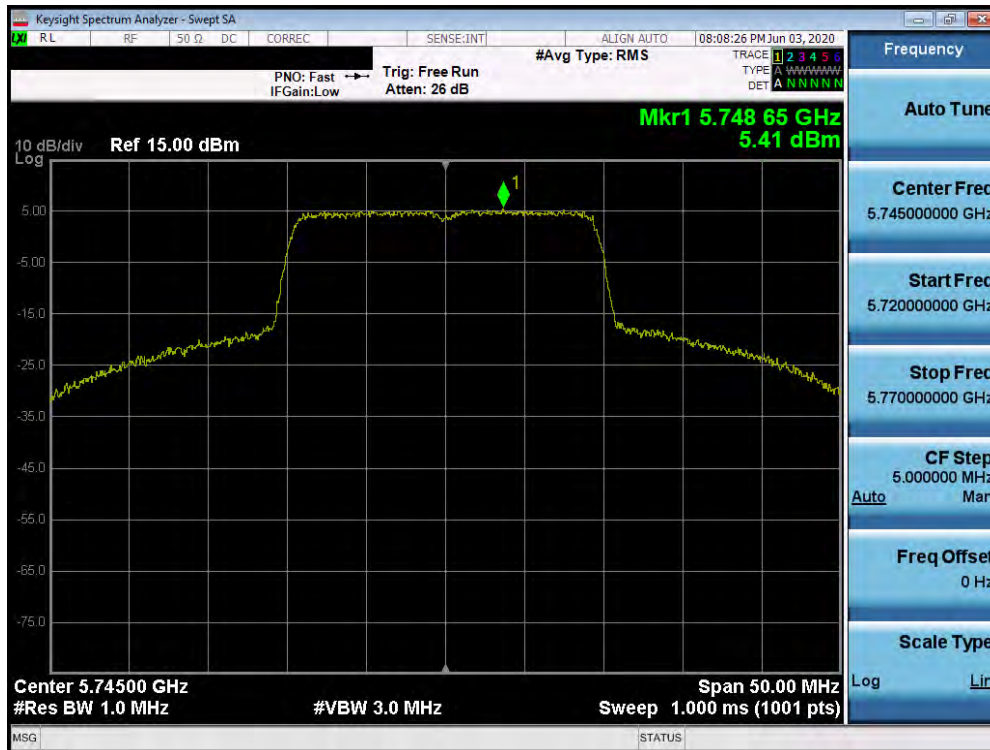
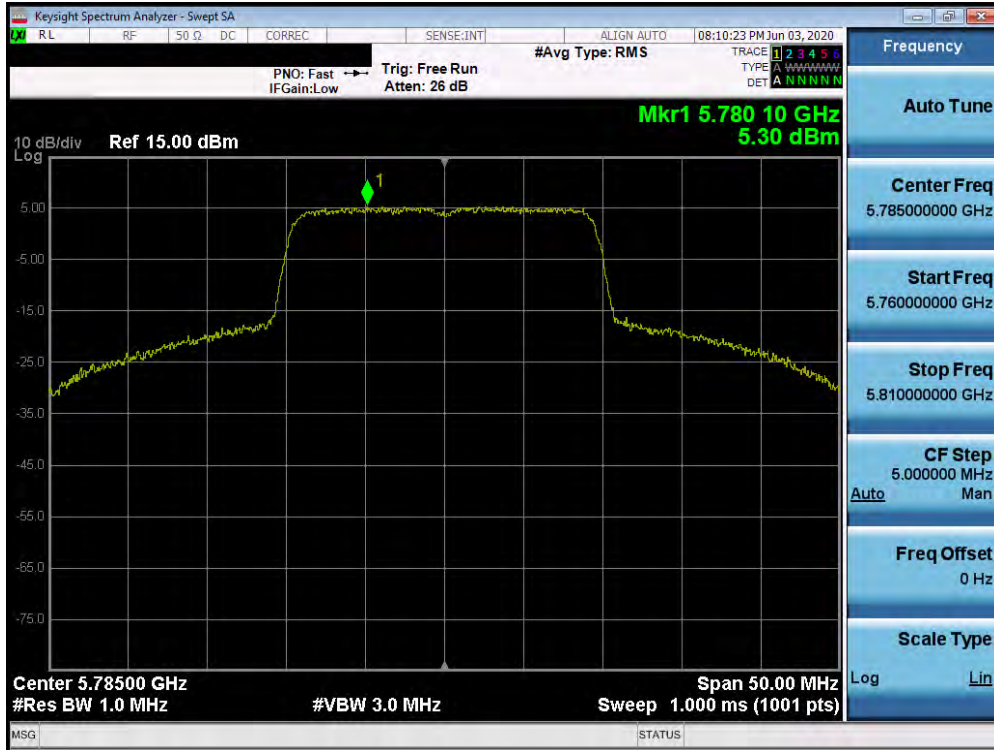


Plot 7-183. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

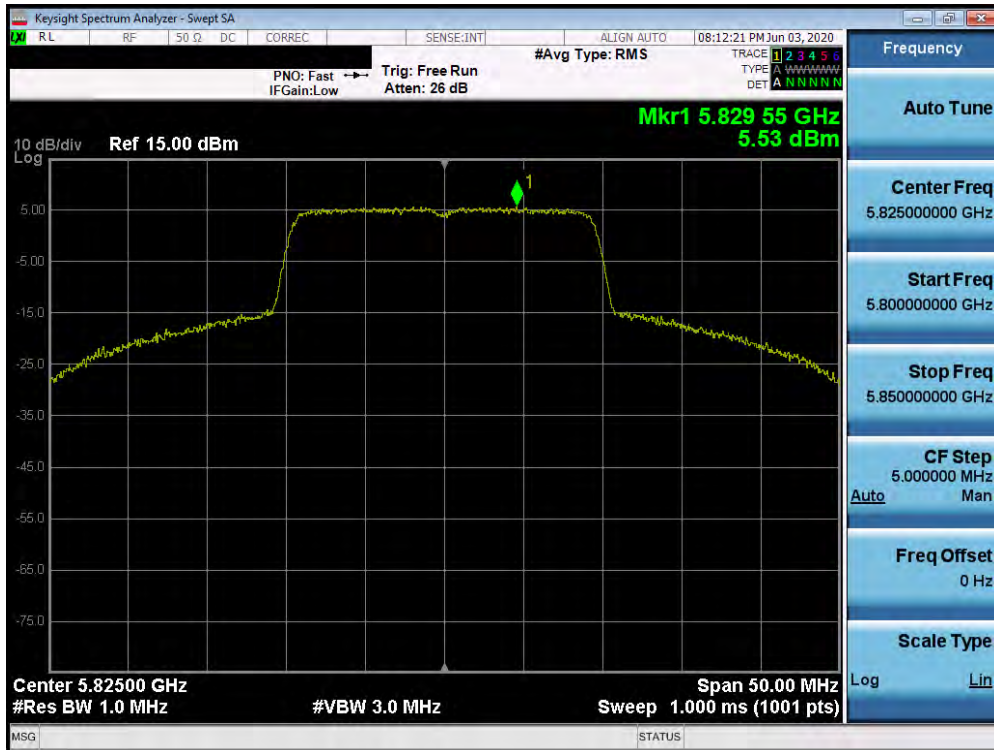


Plot 7-184. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 128 of 233

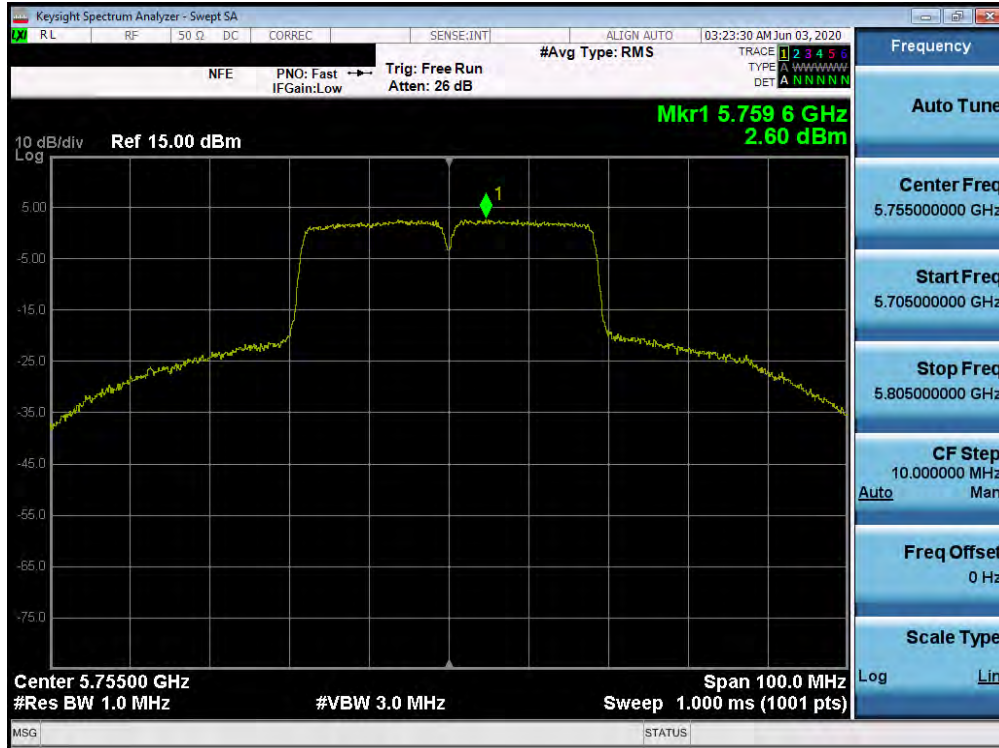


Plot 7-185. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

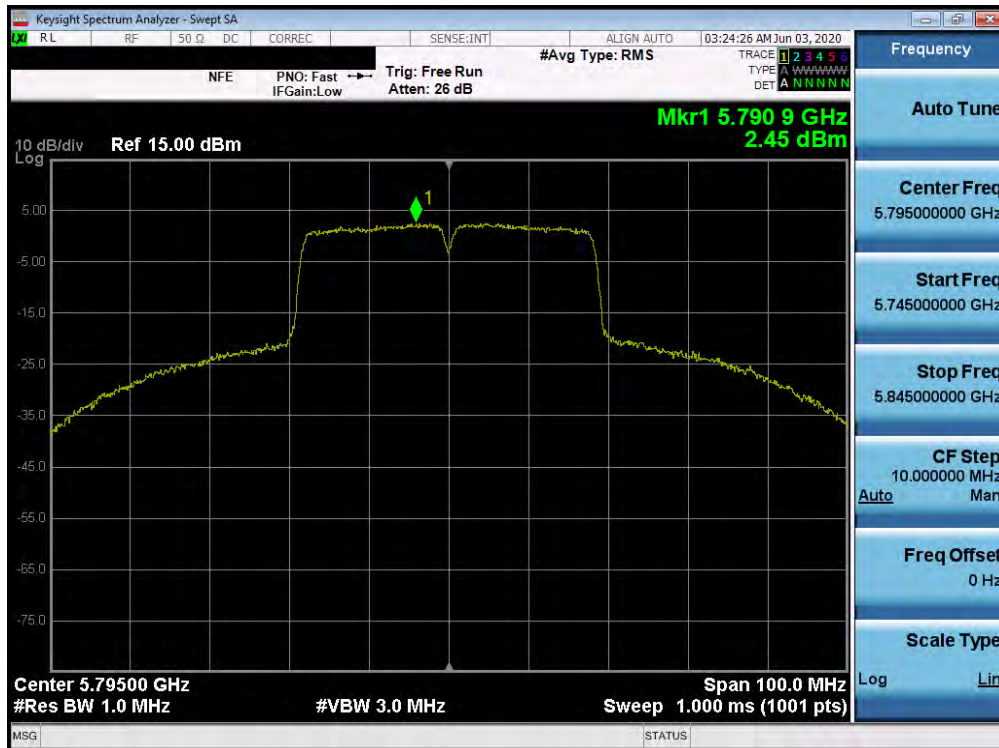


Plot 7-186. Power Spectral Density Plot SISO ANT1 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN986JPN	PCTEST Proud to be part of elemental	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 129 of 233

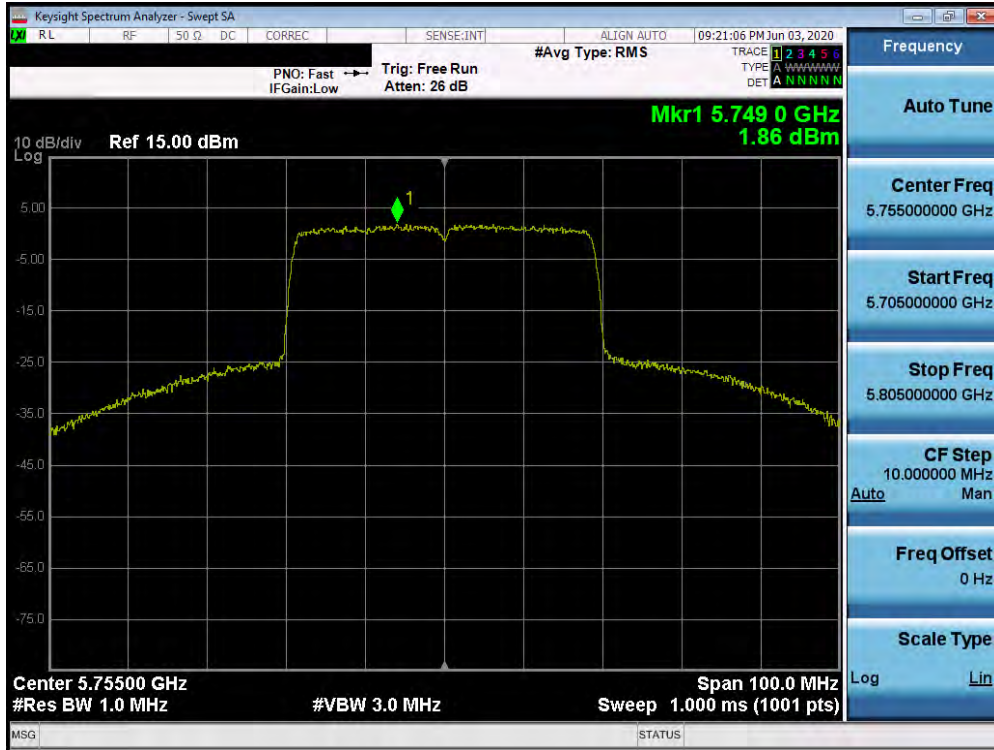


Plot 7-187. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

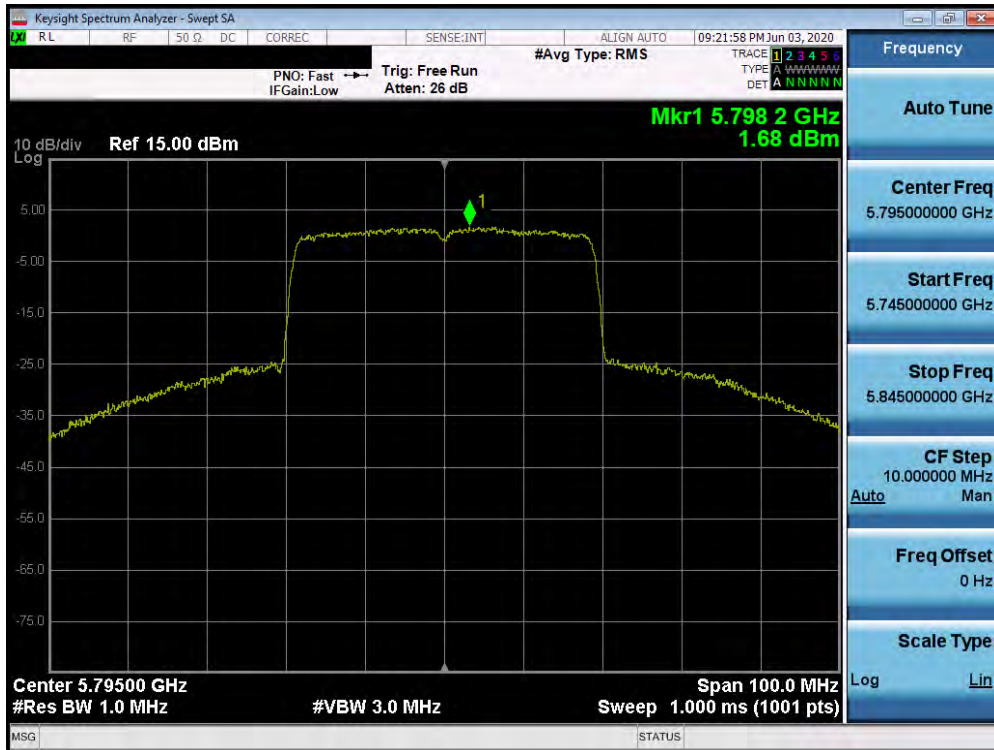


Plot 7-188. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: A3LSMN986JPN	PCTEST Proud to be part of elemental	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 130 of 233



Plot 7-189. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

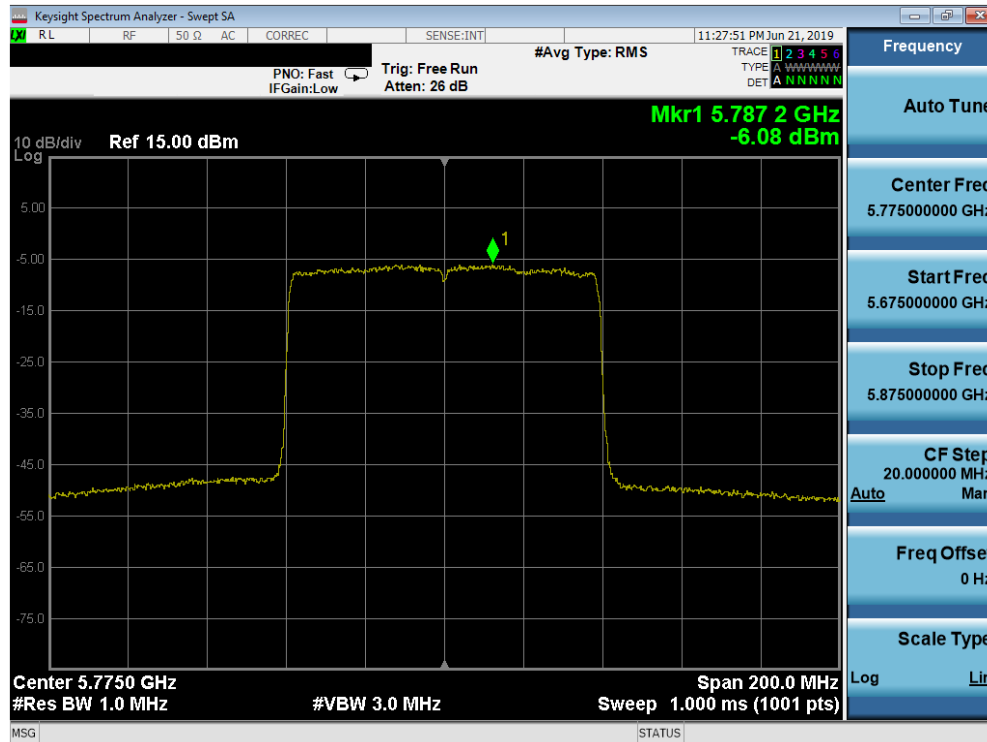


Plot 7-190. Power Spectral Density Plot SISO ANT1 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: A3LSMN986JPN	PCTEST Proud to be part of elemental	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 131 of 233



Plot 7-191. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-192. Power Spectral Density Plot SISO ANT1 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

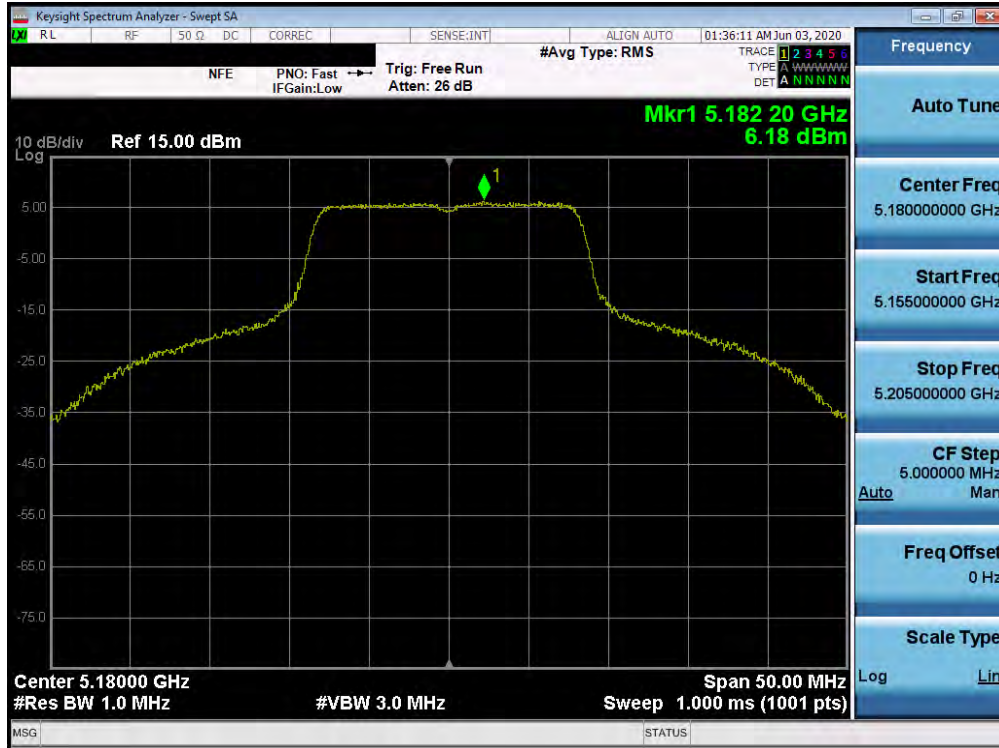
FCC ID: A3LSMN986JPN	 PCTEST Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 132 of 233

SISO Antenna-2 Power Spectral Density Measurements

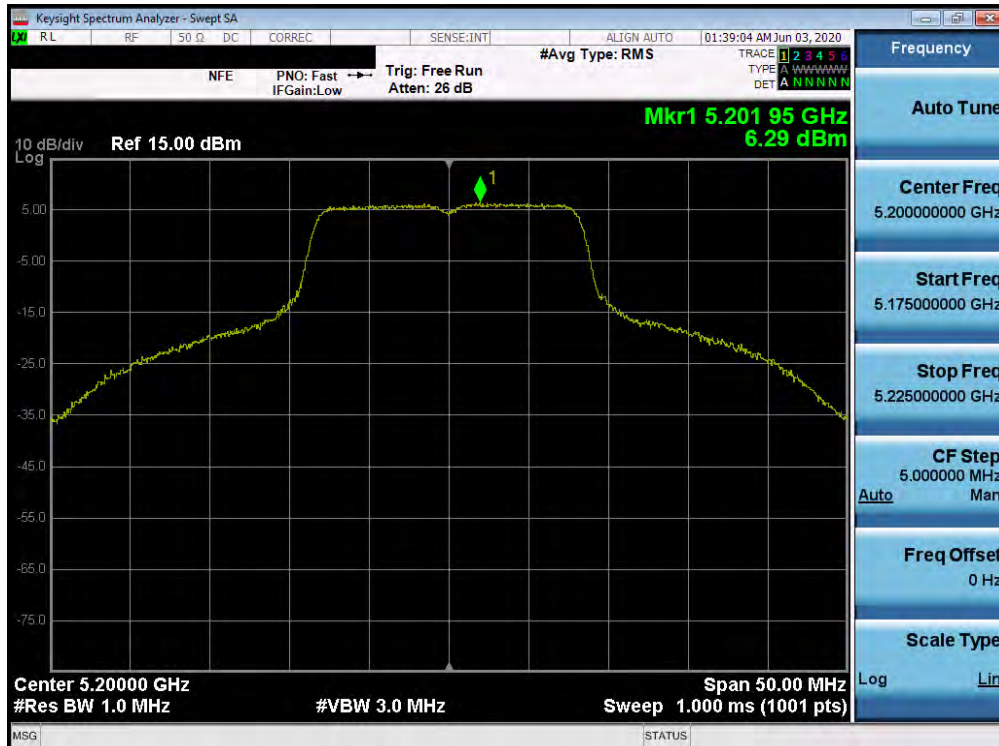
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	6.18	11.0	-4.82
	5200	40	a	6	6.29	11.0	-4.71
	5240	48	a	6	6.58	11.0	-4.42
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.78	11.0	-5.22
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	5.95	11.0	-5.05
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.35	11.0	-4.65
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.76	11.0	-6.24
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	5.13	11.0	-5.87
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	5.60	11.0	-5.40
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.81	11.0	-9.19
	5230	46	n (40MHz)	13.5/15 (MCS0)	1.96	11.0	-9.04
	5190	38	ax (40MHz)	13.5/15 (MCS0)	2.12	11.0	-8.88
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.24	11.0	-8.76
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.32	11.0	-12.32
	5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-2.02	11.0	-13.02
Band 2A	5260	52	a	6	7.00	11.0	-4.00
	5280	56	a	6	6.87	11.0	-4.13
	5320	64	a	6	6.55	11.0	-4.45
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.69	11.0	-4.31
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.58	11.0	-4.42
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.11	11.0	-4.89
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.58	11.0	-5.42
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	5.72	11.0	-5.28
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	5.22	11.0	-5.78
	5270	54	n (40MHz)	13.5/15 (MCS0)	1.89	11.0	-9.11
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.77	11.0	-8.23
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.35	11.0	-8.65
	5310	62	ax (40MHz)	13.5/15 (MCS0)	1.86	11.0	-9.14
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.76	11.0	-12.76
	5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.70	11.0	-12.70
Band 2C	5500	100	a	6	6.24	11.0	-4.76
	5600	120	a	6	5.55	11.0	-5.45
	5720	144	a	6	6.04	11.0	-4.96
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	5.75	11.0	-5.25
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.28	11.0	-5.72
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	5.89	11.0	-5.11
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	5.12	11.0	-5.88
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.40	11.0	-6.60
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	4.89	11.0	-6.11
	5510	102	n (40MHz)	13.5/15 (MCS0)	2.52	11.0	-8.48
	5590	118	n (40MHz)	13.5/15 (MCS0)	1.78	11.0	-9.22
	5710	142	n (40MHz)	13.5/15 (MCS0)	2.17	11.0	-8.83
	5510	102	ax (40MHz)	13.5/15 (MCS0)	1.91	11.0	-9.09
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.14	11.0	-9.86
	5710	142	ax (40MHz)	13.5/15 (MCS0)	1.56	11.0	-9.44
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.15	11.0	-12.15
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.55	11.0	-12.55
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-1.39	11.0	-12.39
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-2.60	11.0	-13.60
	5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-2.28	11.0	-13.28
5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-1.92	11.0	-12.92	

Table 7-23. Conducted Power Spectral Density Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 133 of 233

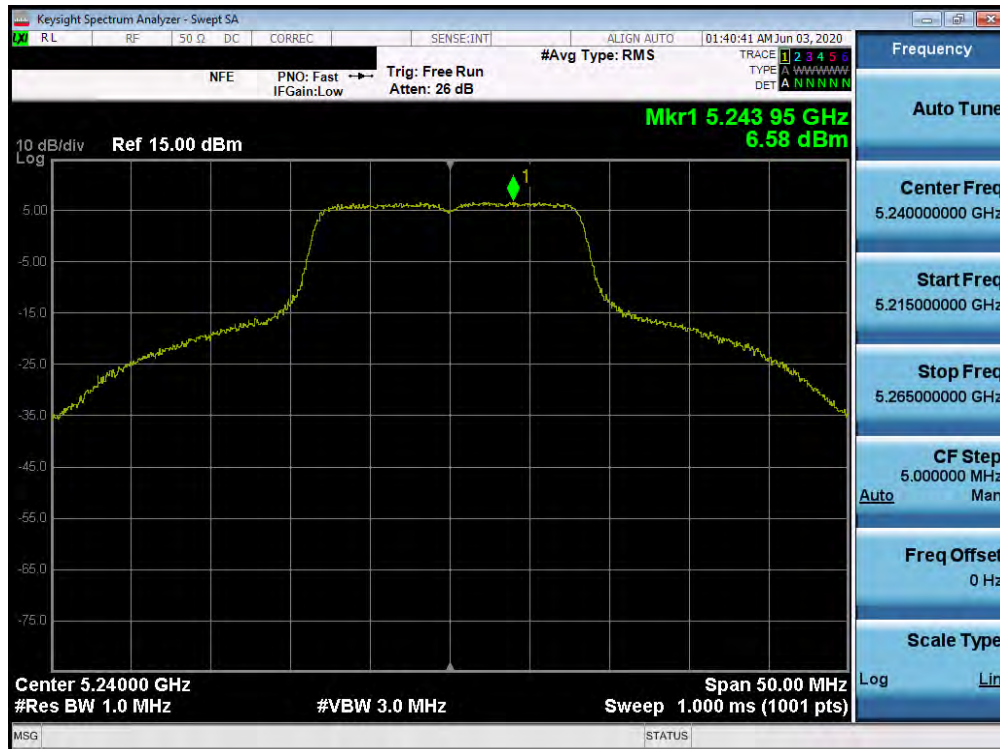


Plot 7-193. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 36)

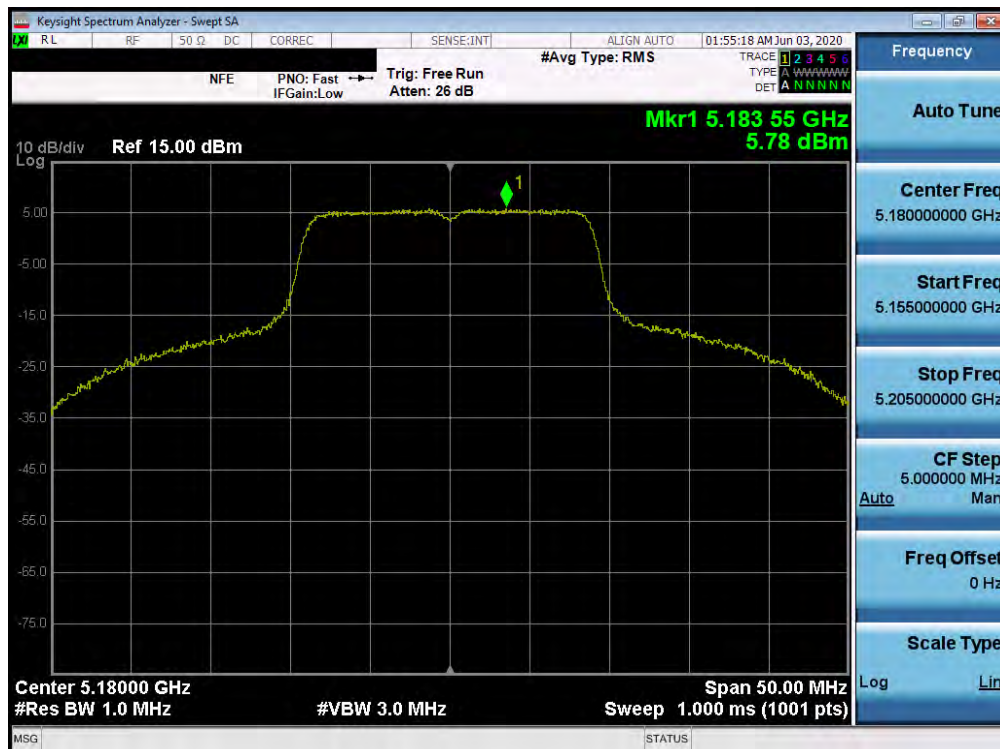


Plot 7-194. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 134 of 233

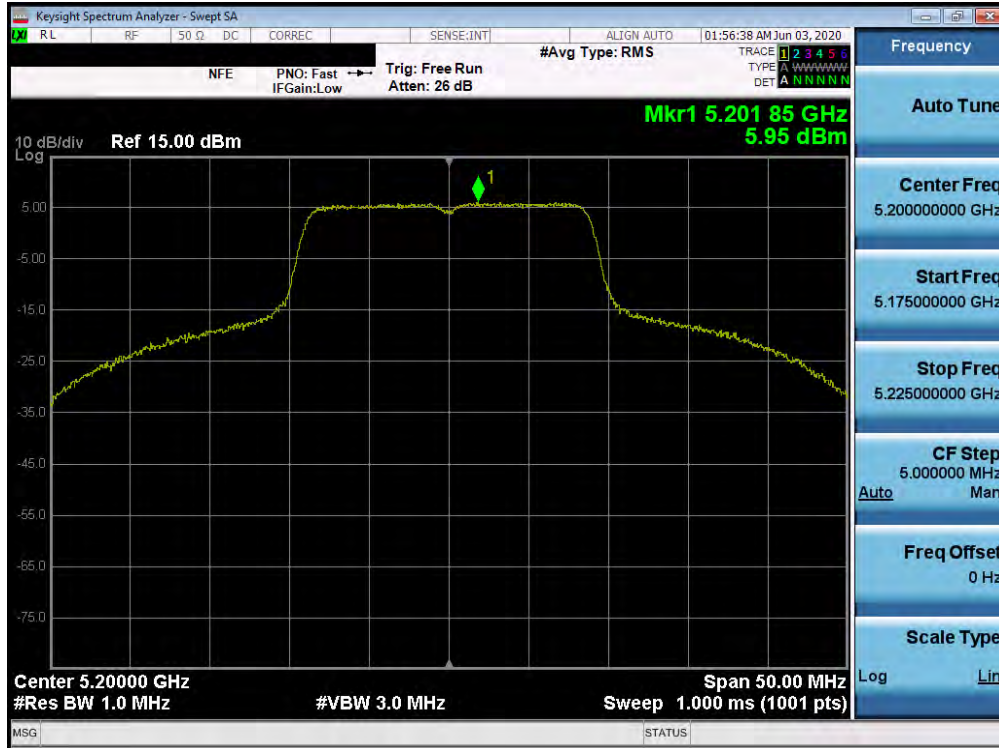


Plot 7-195. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 1) – Ch. 48)

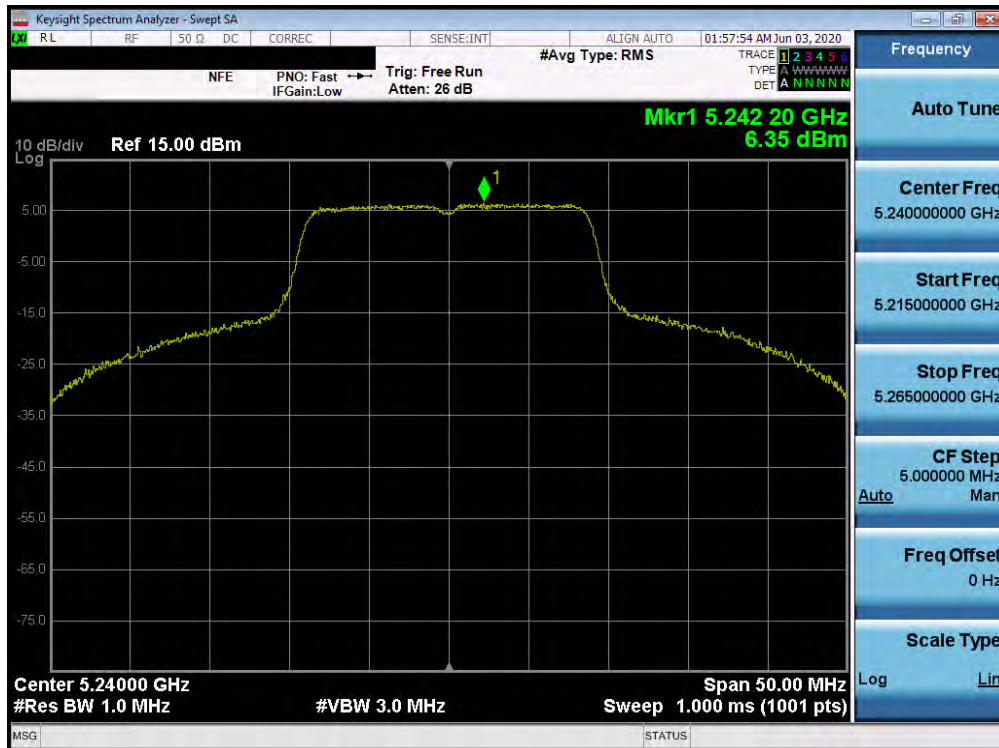


Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 135 of 233

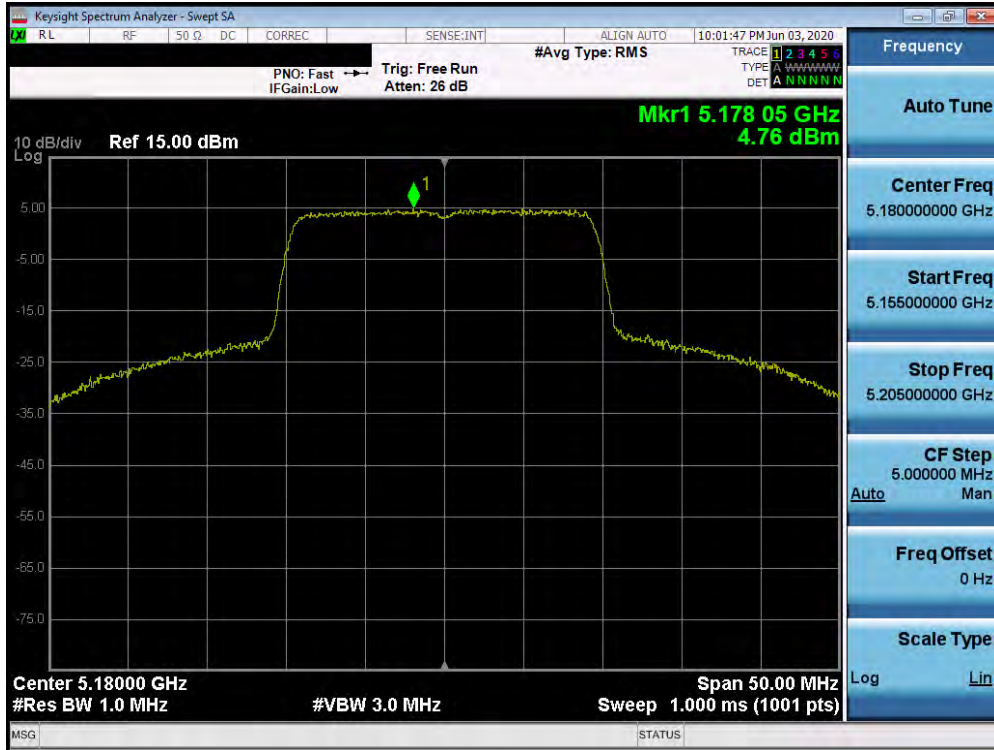


Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

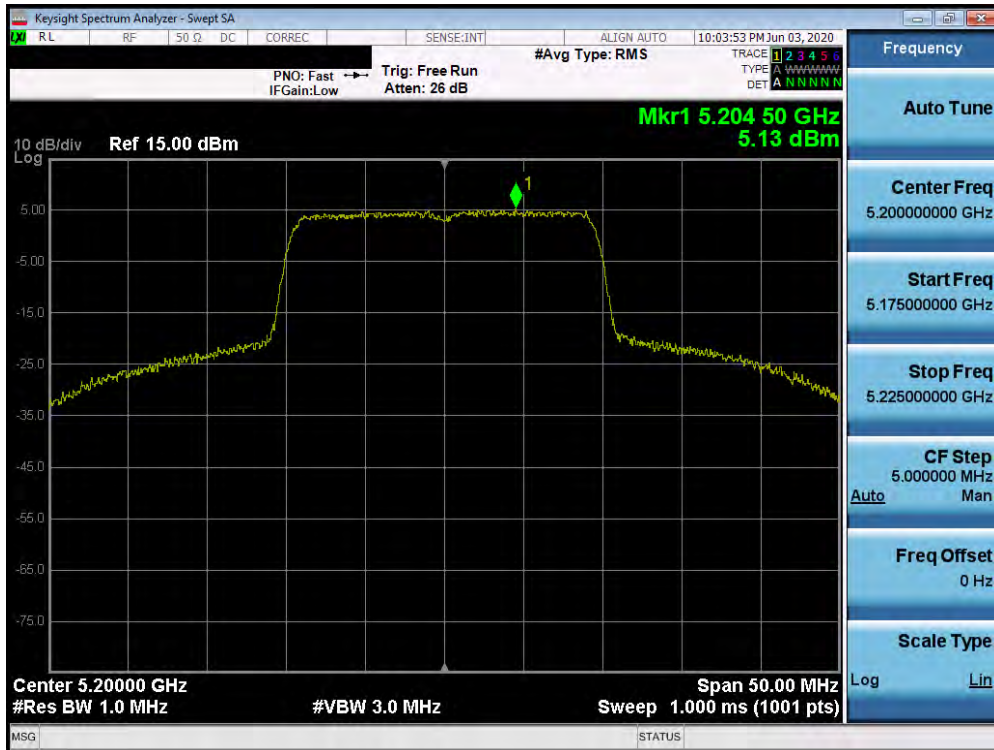


Plot 7-198. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 136 of 233

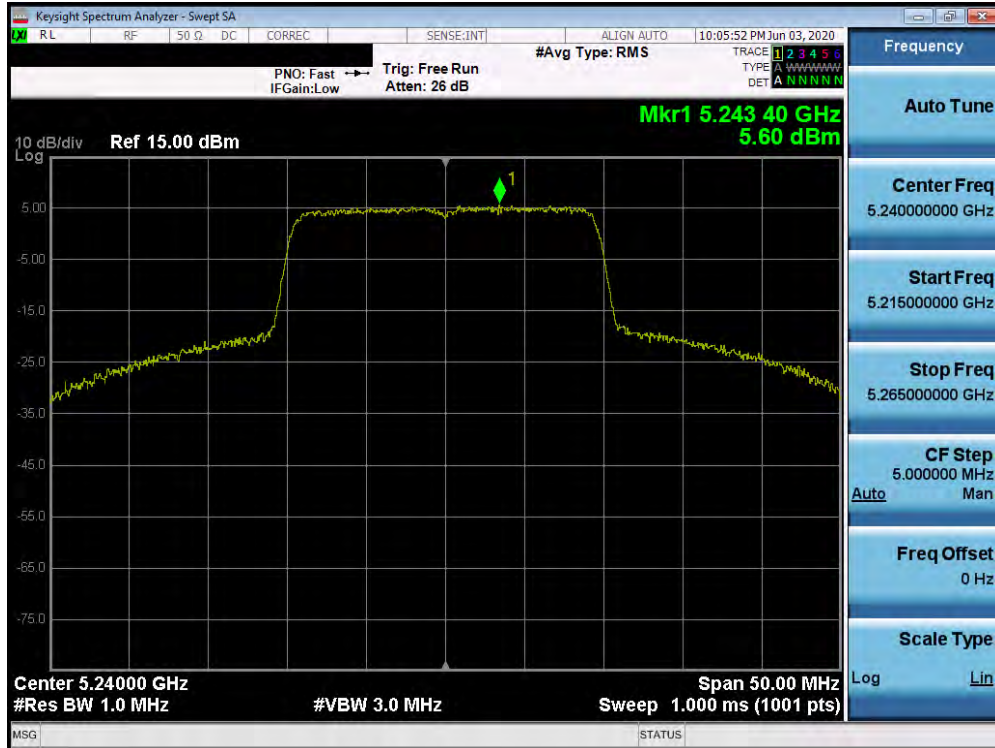


Plot 7-199. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 36)

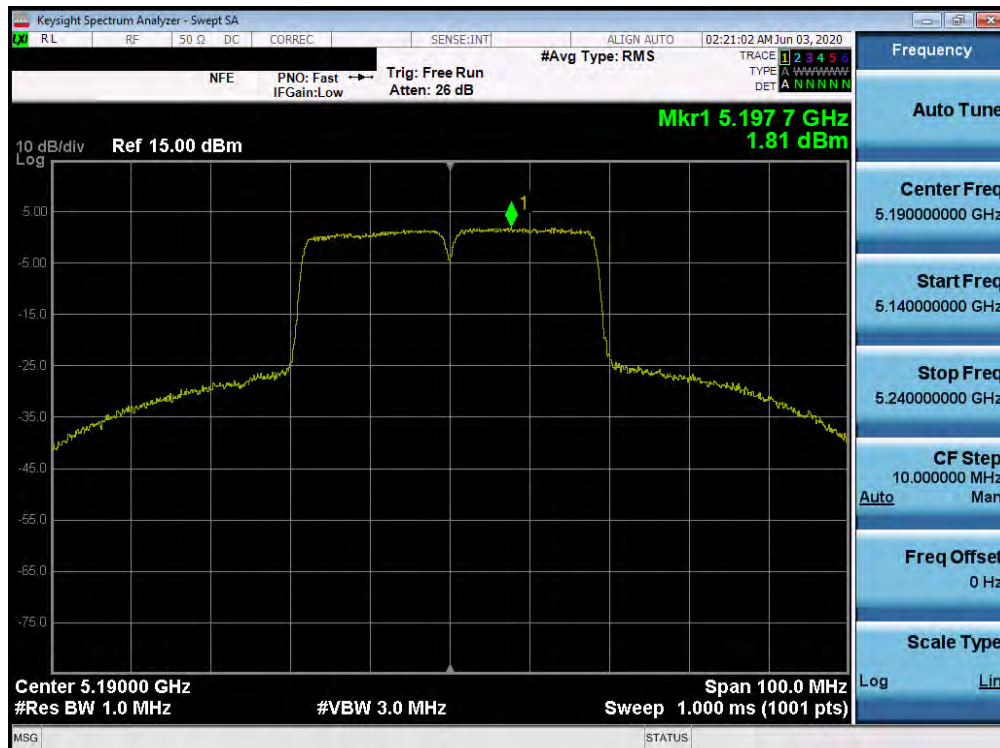


Plot 7-200. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 40)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 137 of 233

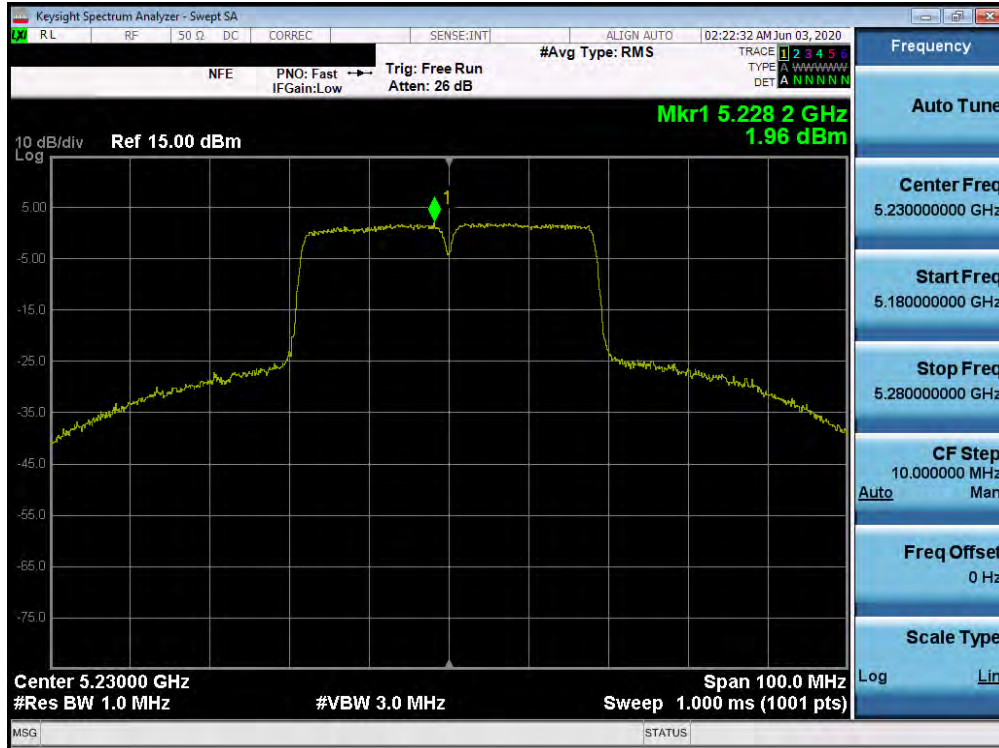


Plot 7-201. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 1) – Ch. 48)

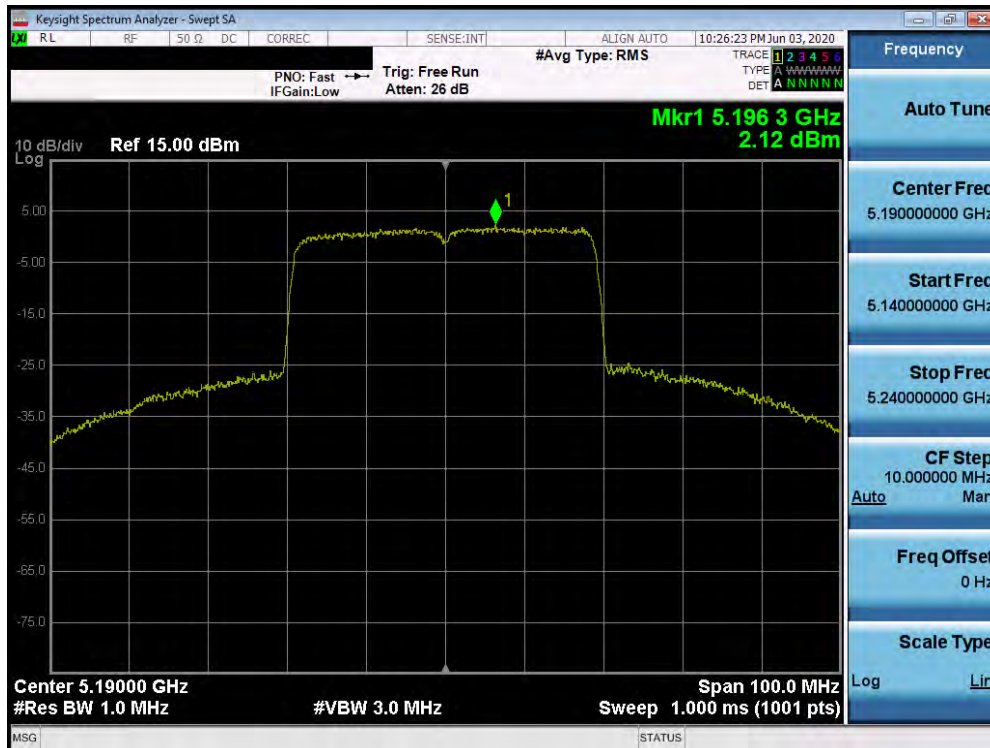


Plot 7-202. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 138 of 233

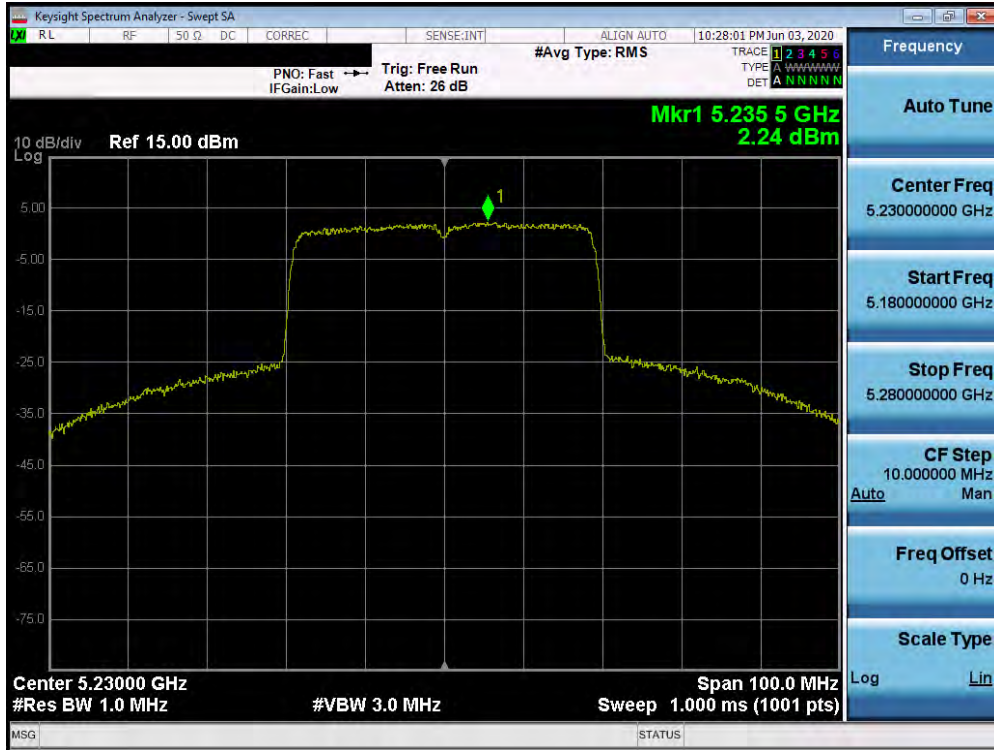


Plot 7-203. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

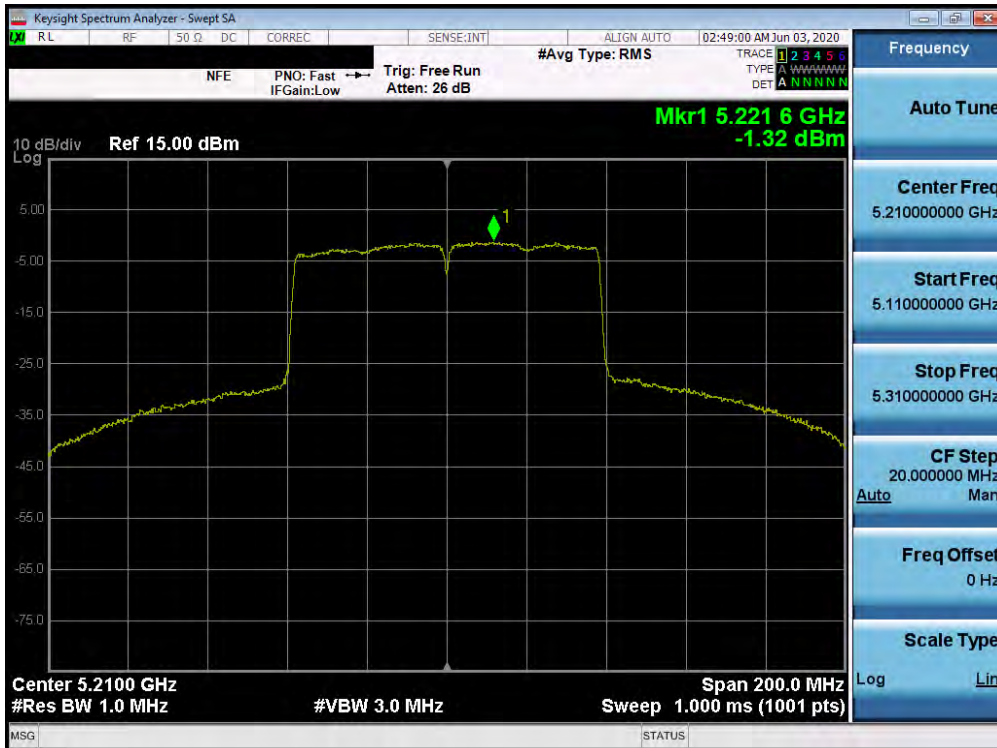


Plot 7-204. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 38)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 139 of 233

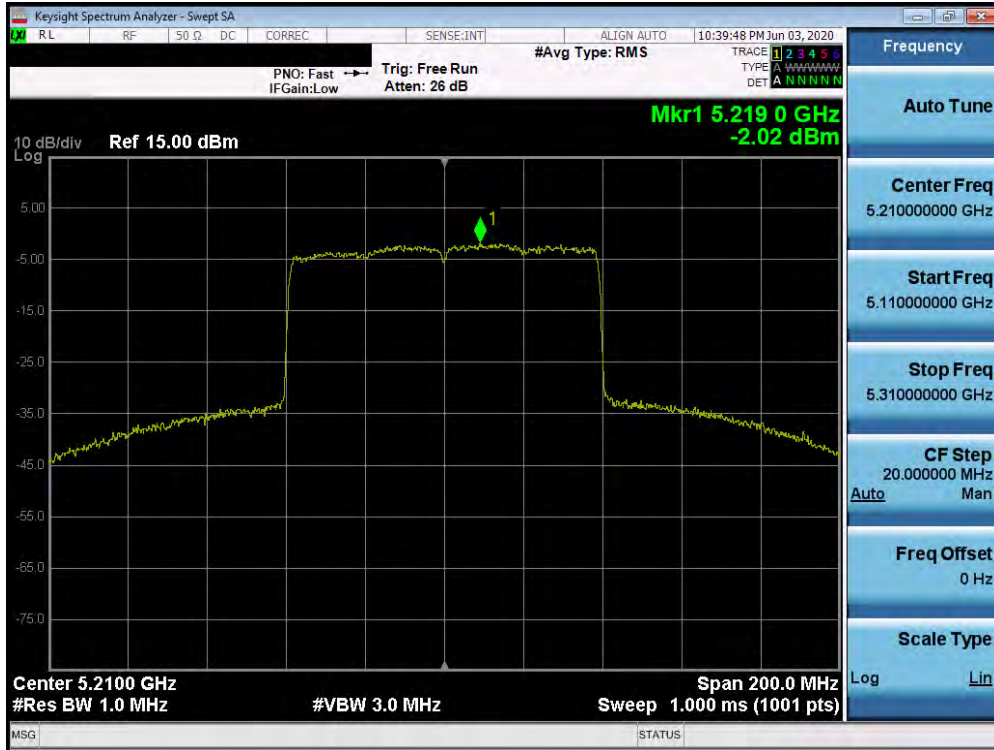


Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 1) – Ch. 46)

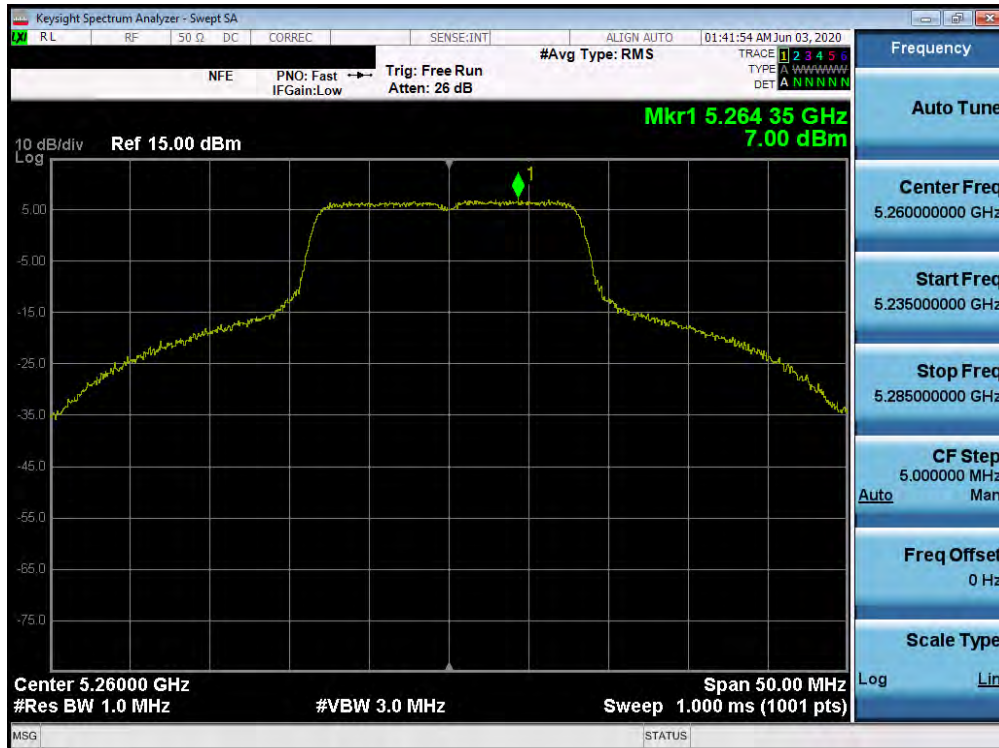


Plot 7-206. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMN986JPN	PCTEST Proud to be part of elemental	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 140 of 233

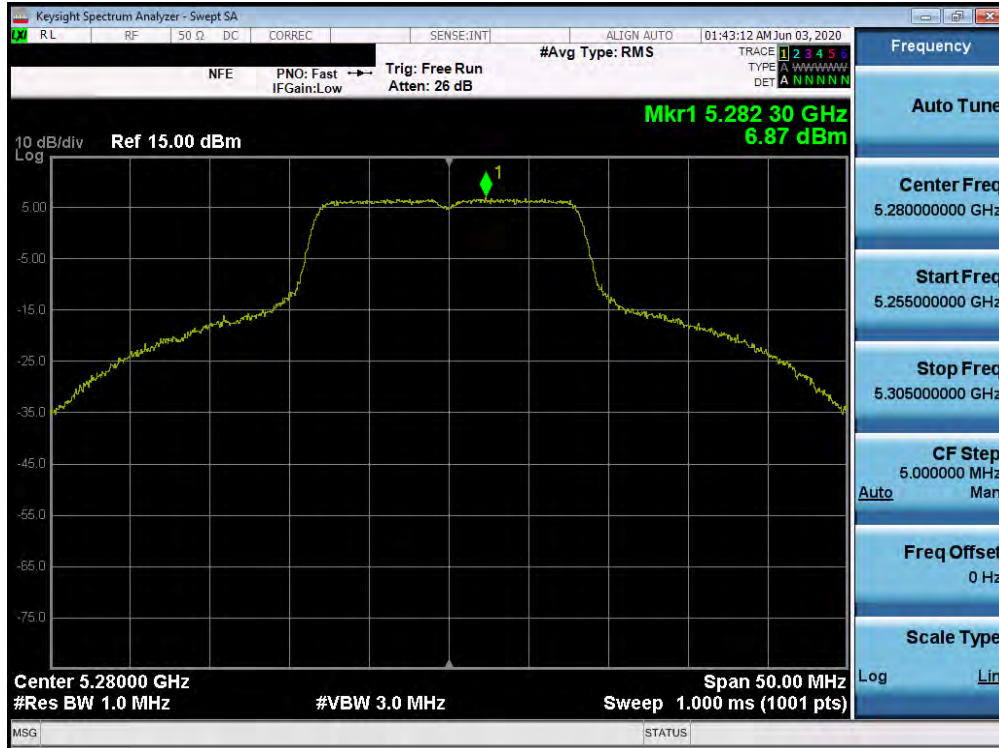


Plot 7-207. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 1) – Ch. 42)

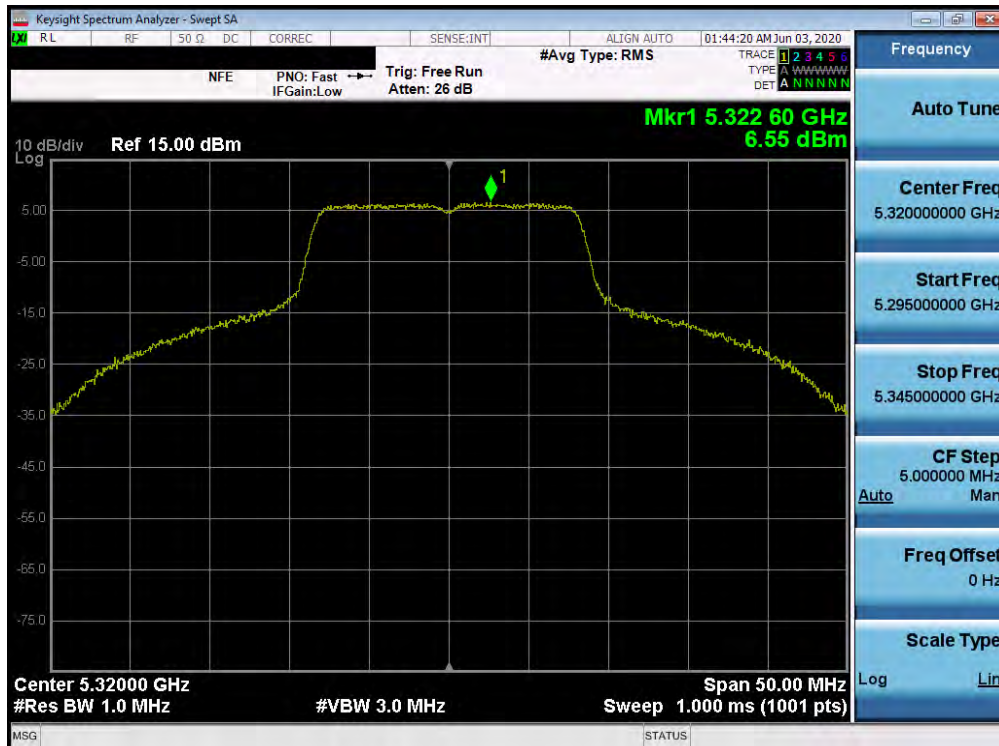


Plot 7-208. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 141 of 233

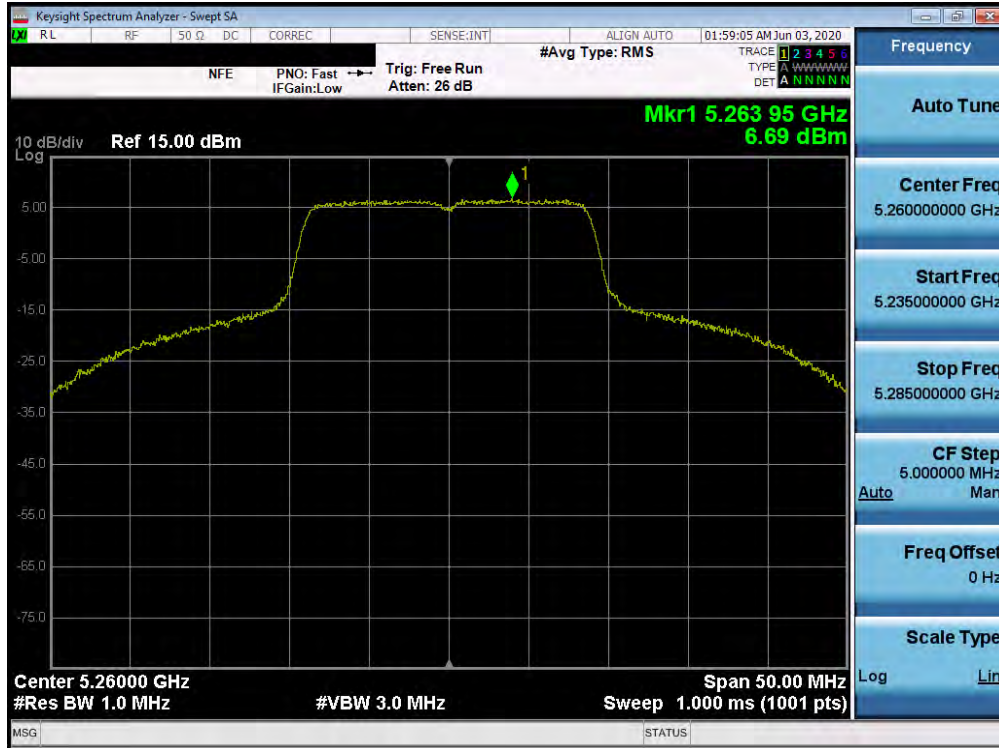


Plot 7-209. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 56)

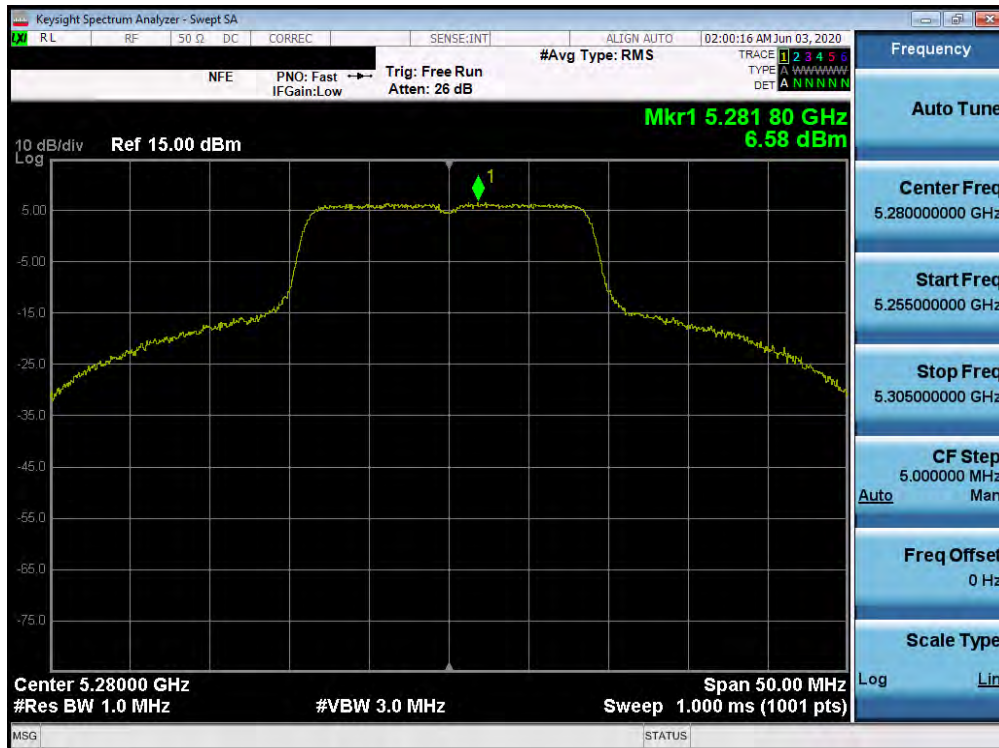


Plot 7-210. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 142 of 233

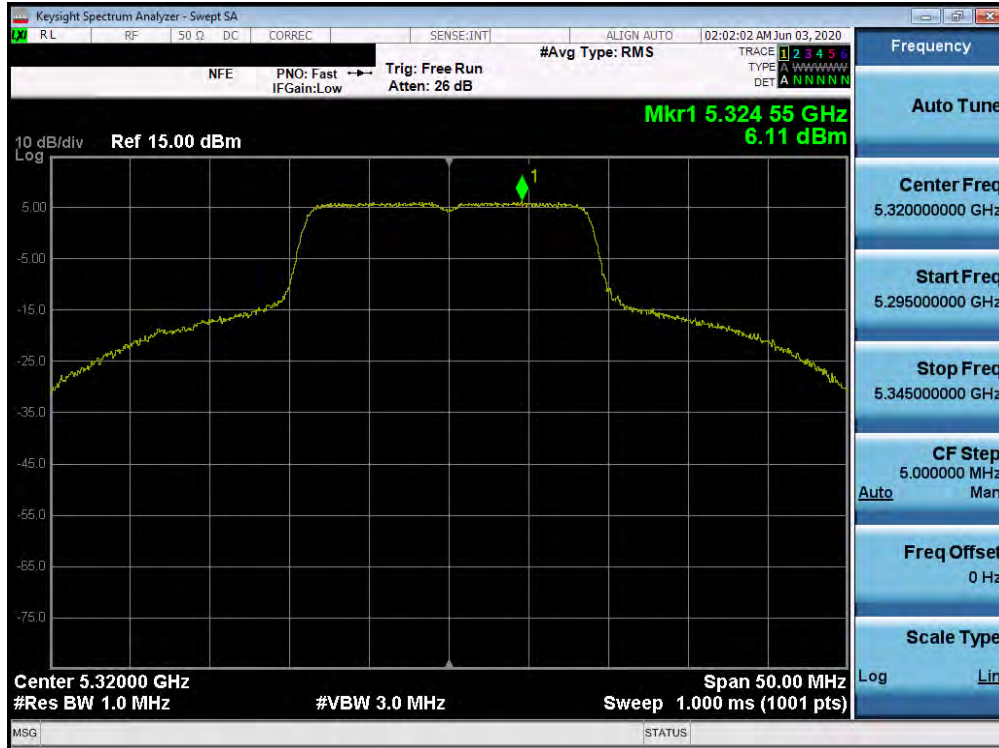


Plot 7-211. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

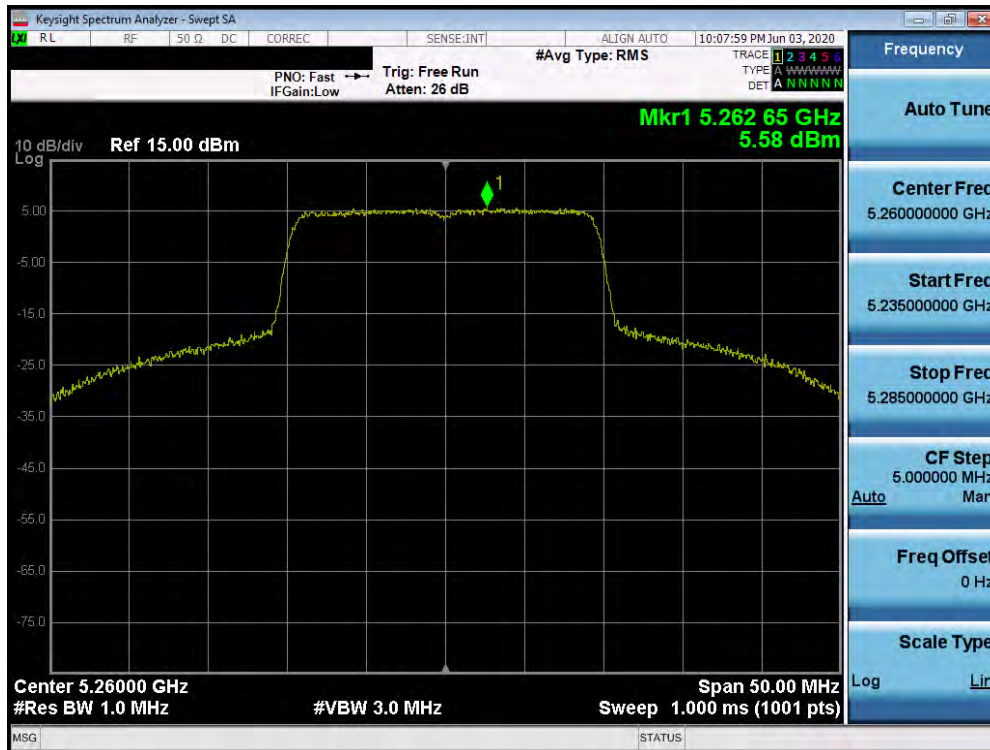


Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 143 of 233

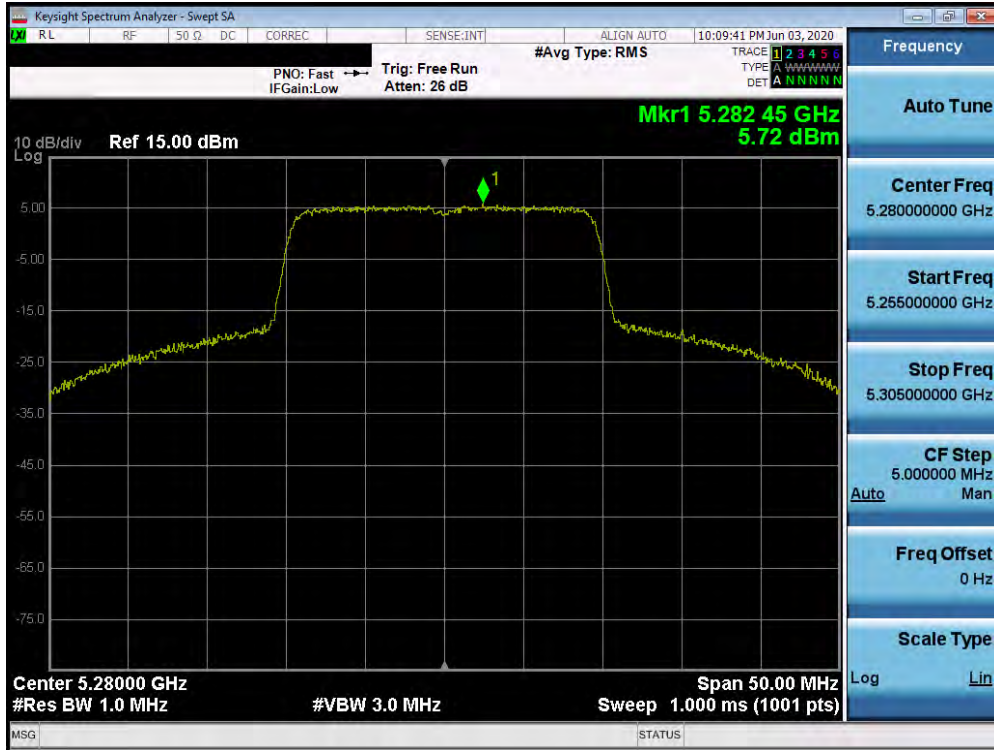


Plot 7-213. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

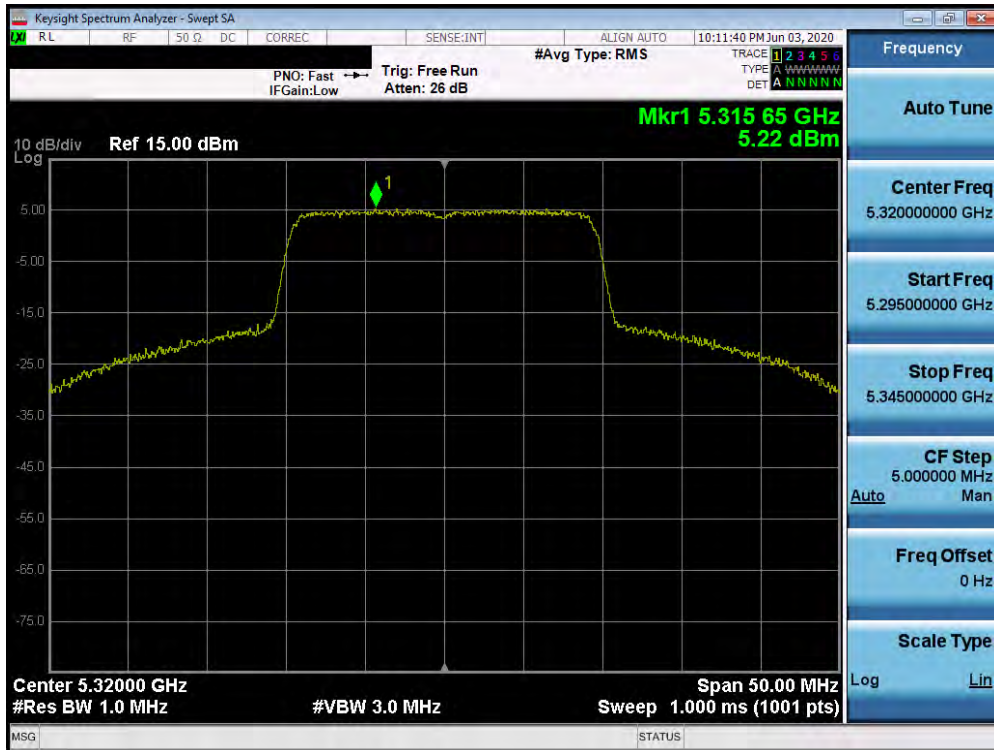


Plot 7-214. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 144 of 233

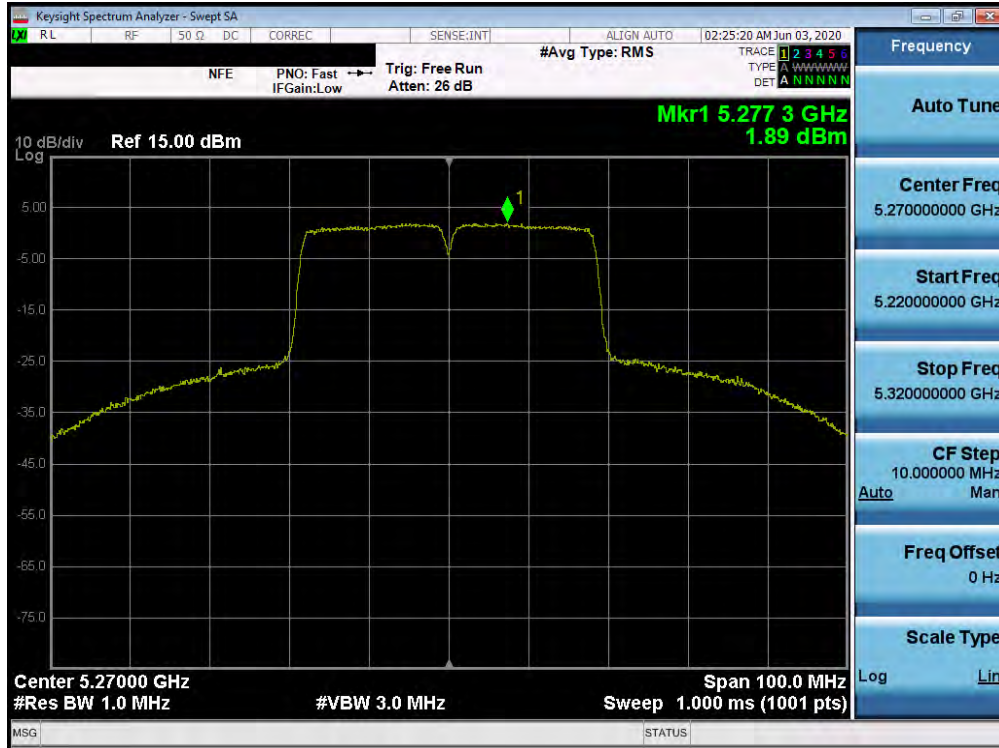


Plot 7-215. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 56)

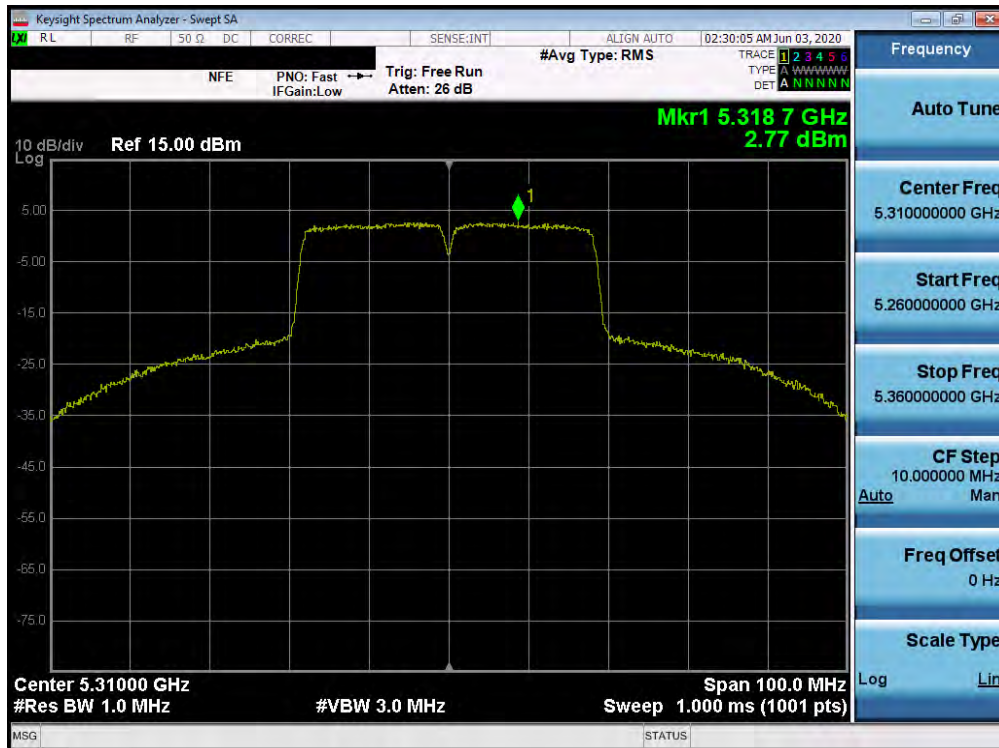


Plot 7-216. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 145 of 233



Plot 7-217. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

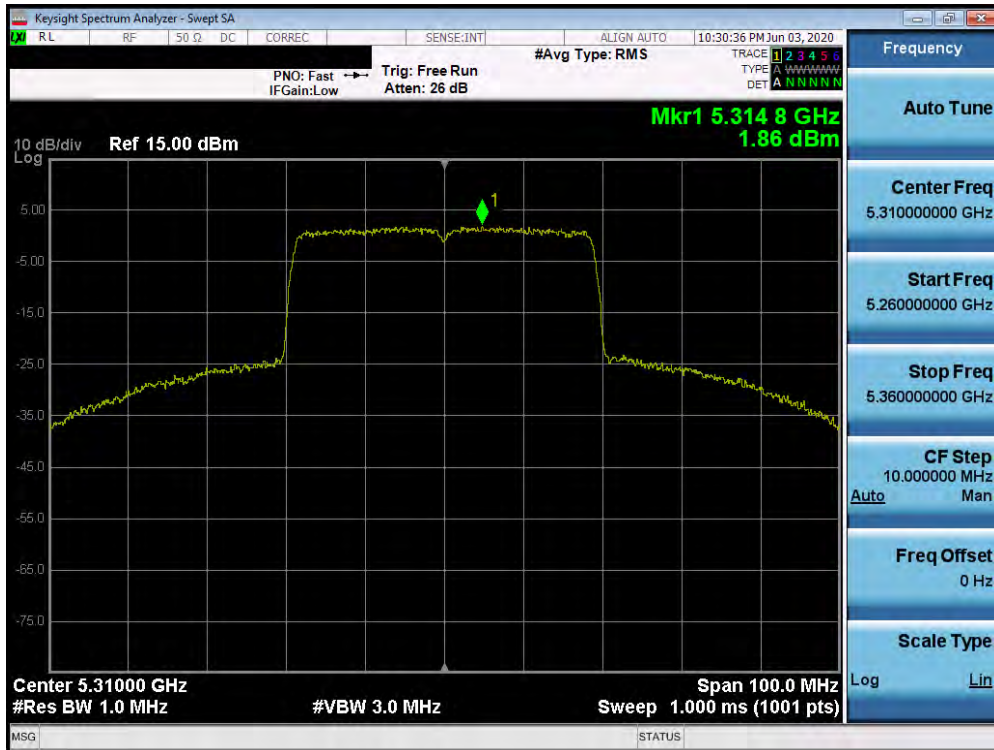


Plot 7-218. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 146 of 233

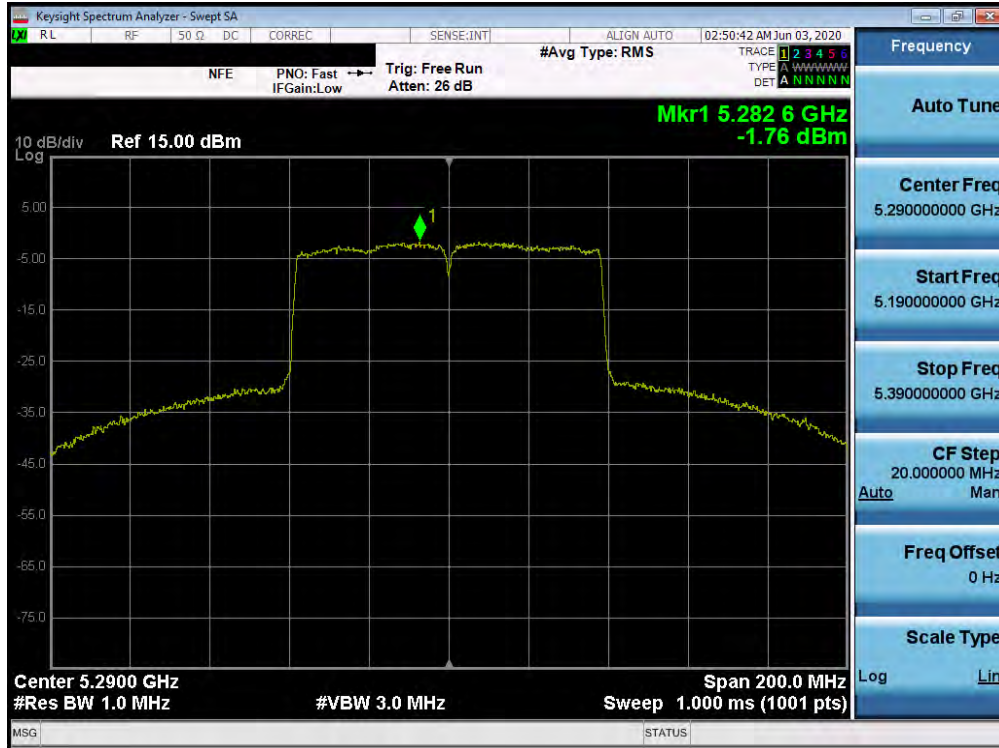


Plot 7-219. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 54)

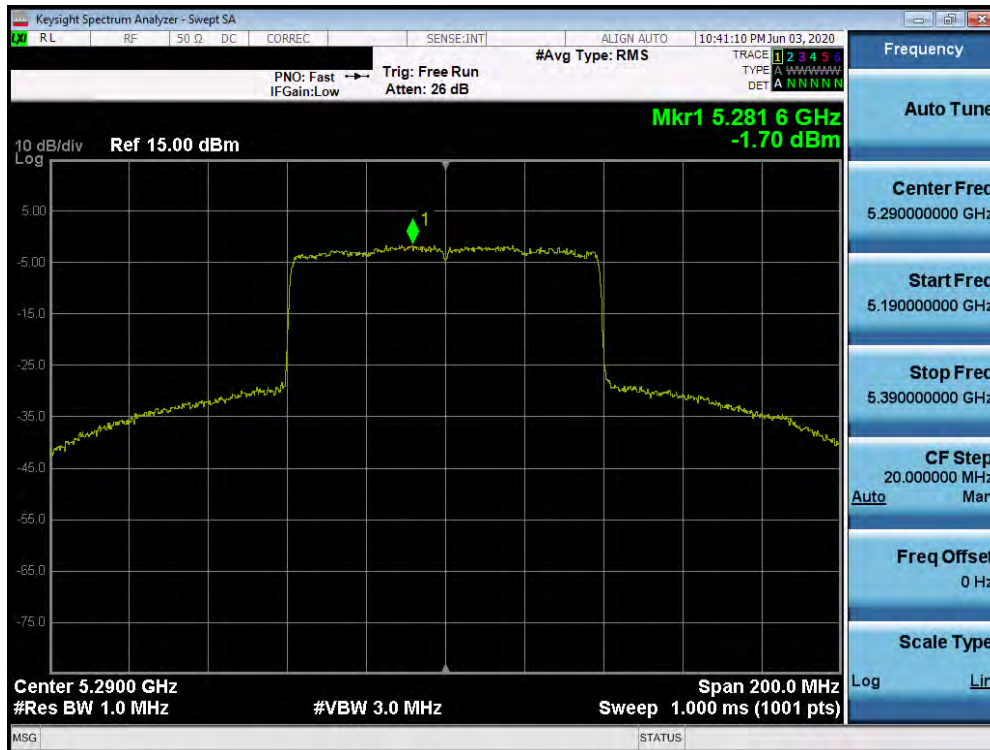


Plot 7-220. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 147 of 233

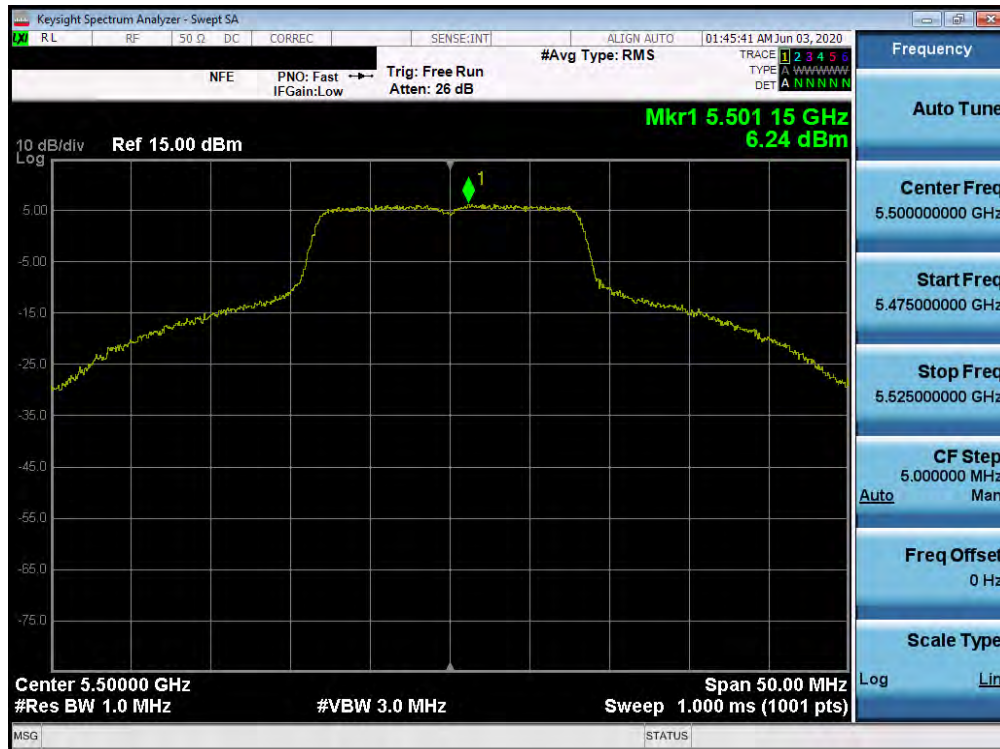


Plot 7-221. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

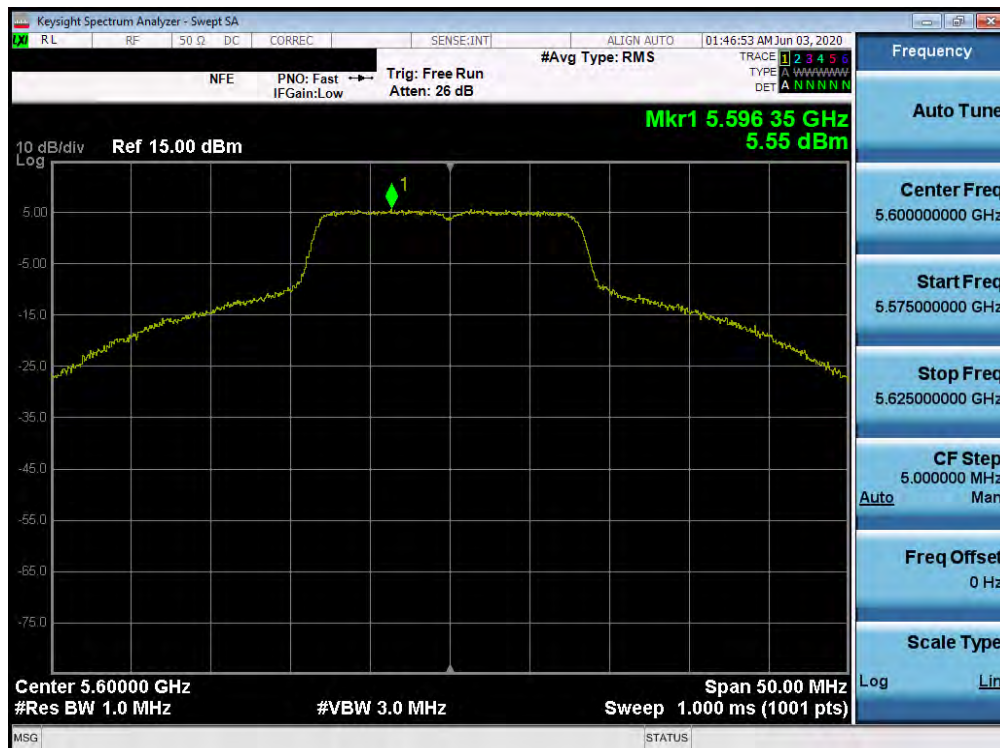


Plot 7-222. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 148 of 233

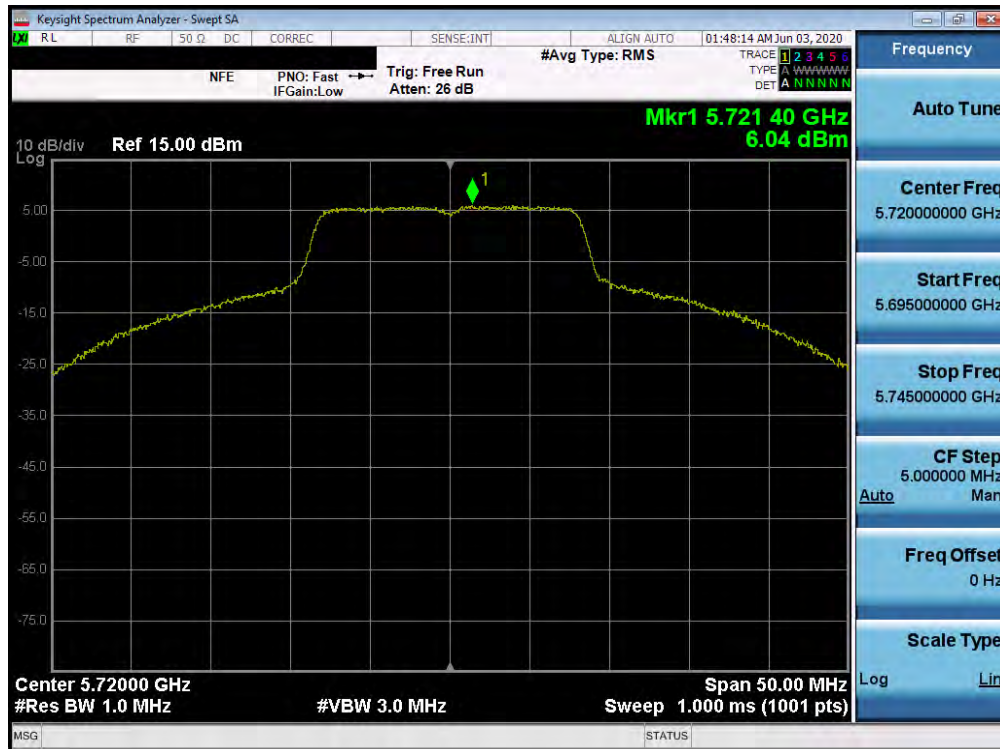


Plot 7-223. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 100)

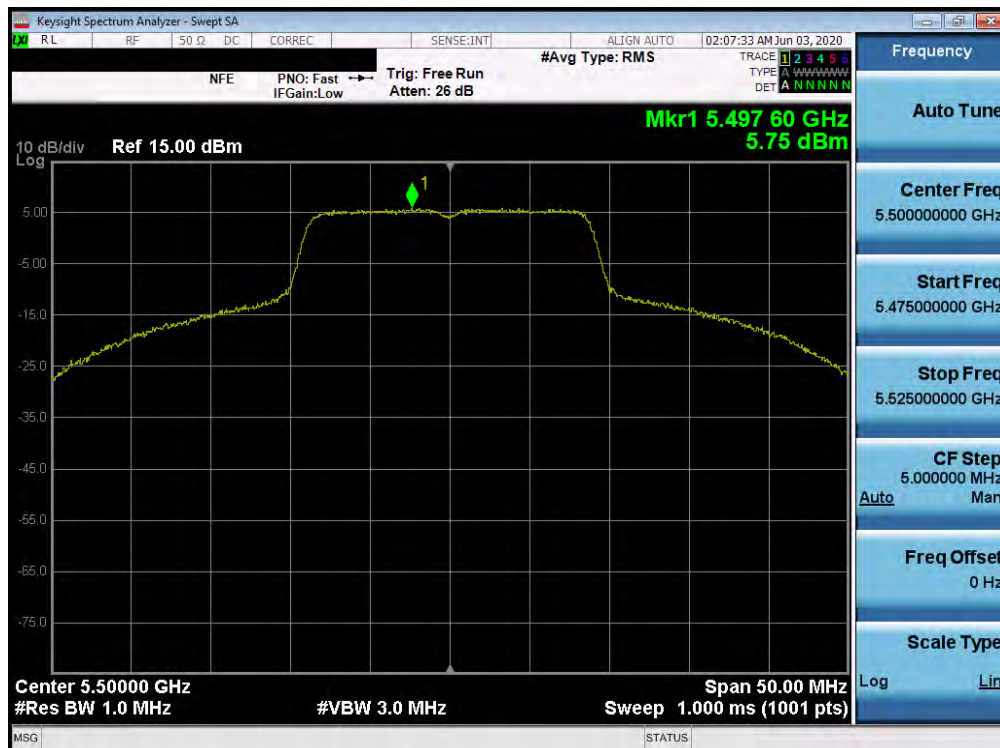


Plot 7-224. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN986JPN	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 149 of 233

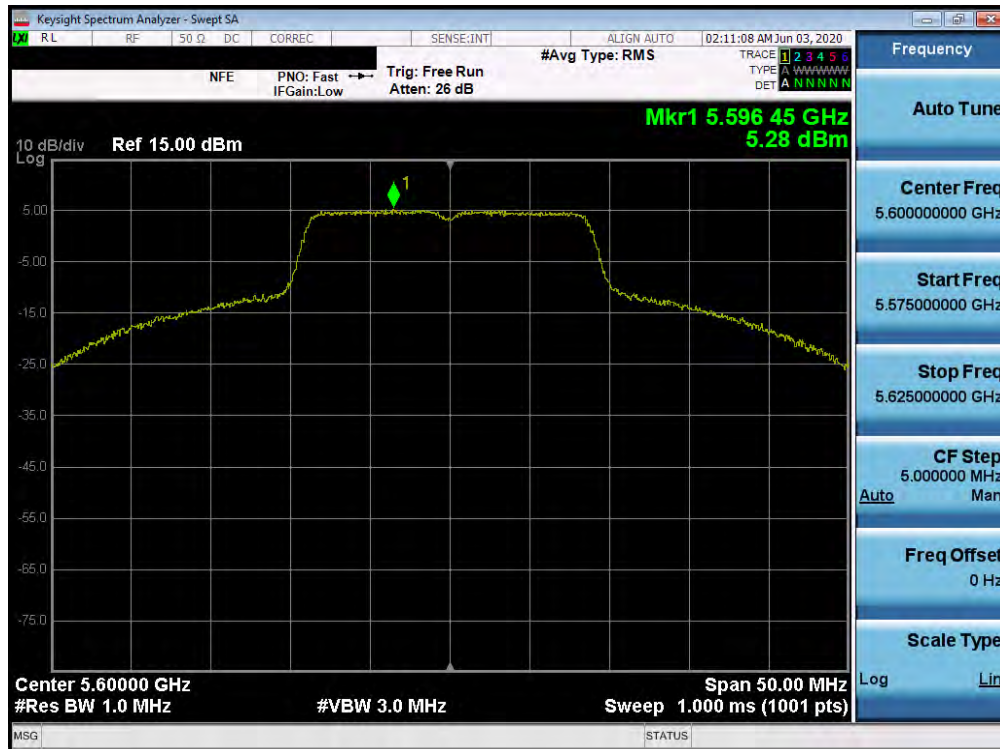


Plot 7-225. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 2C) – Ch. 144)

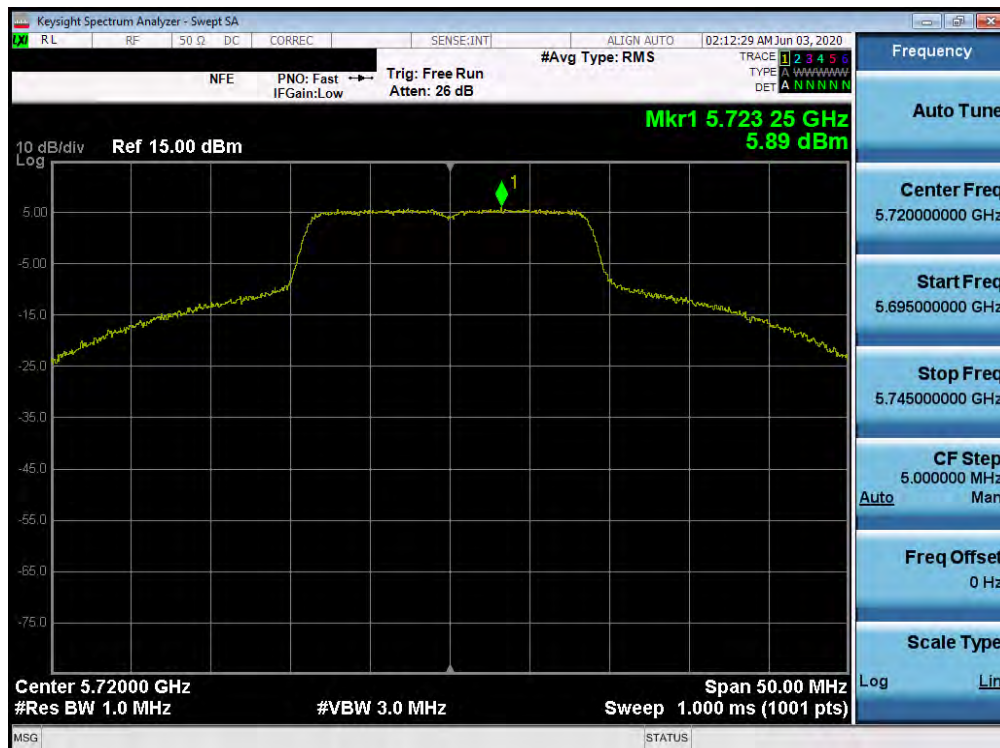


Plot 7-226. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 150 of 233

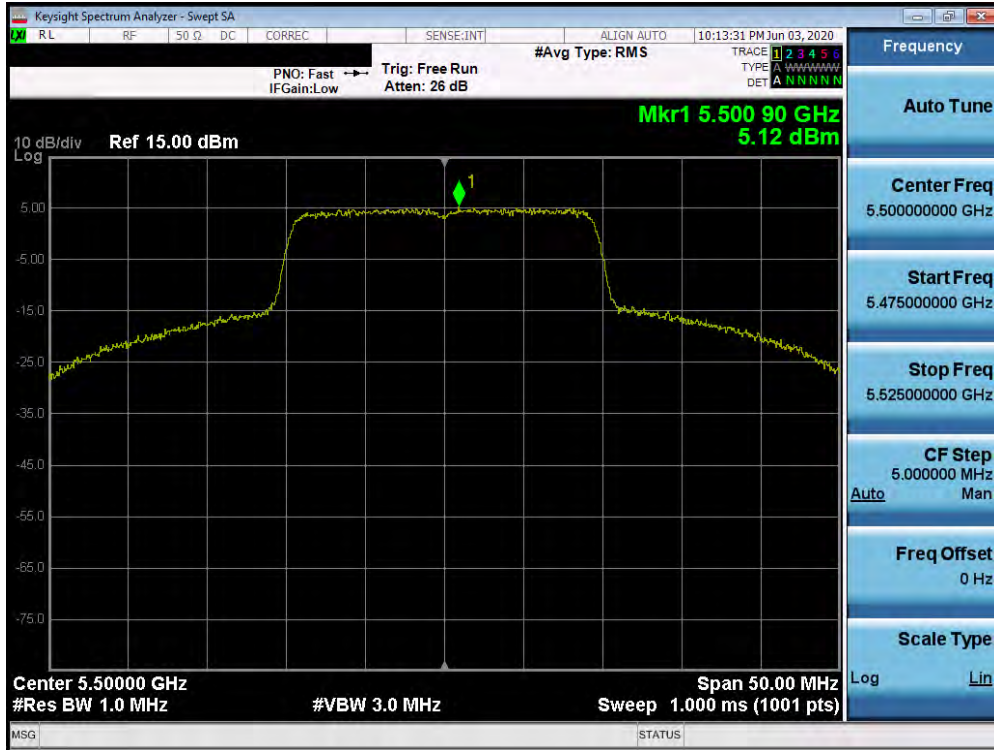


Plot 7-227. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 120)

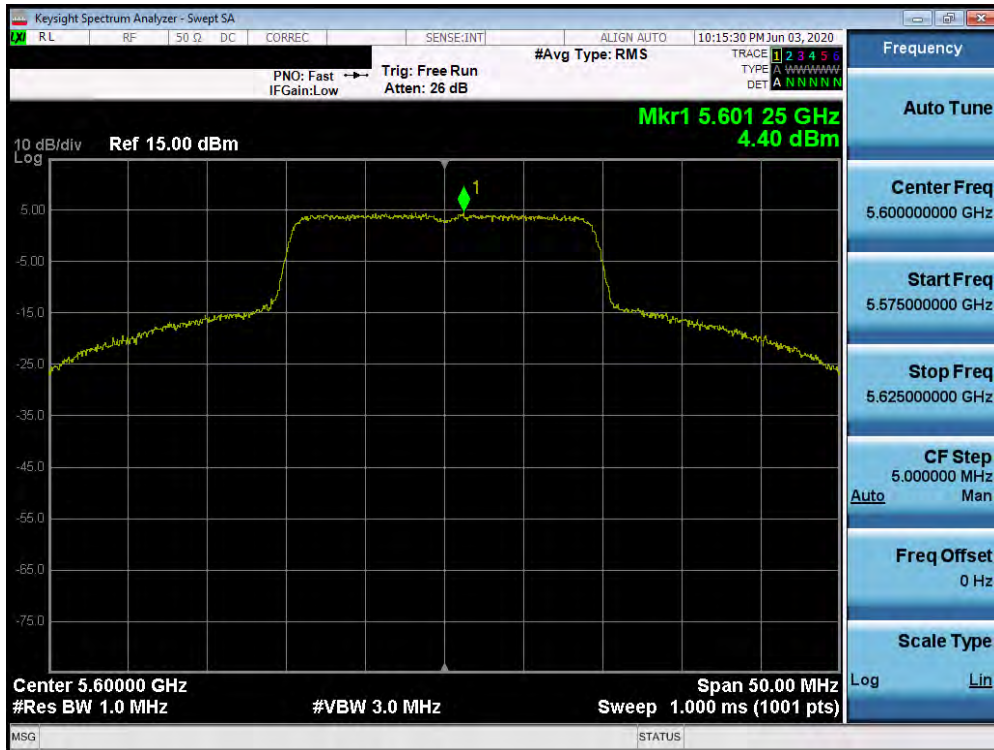


Plot 7-228. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 151 of 233

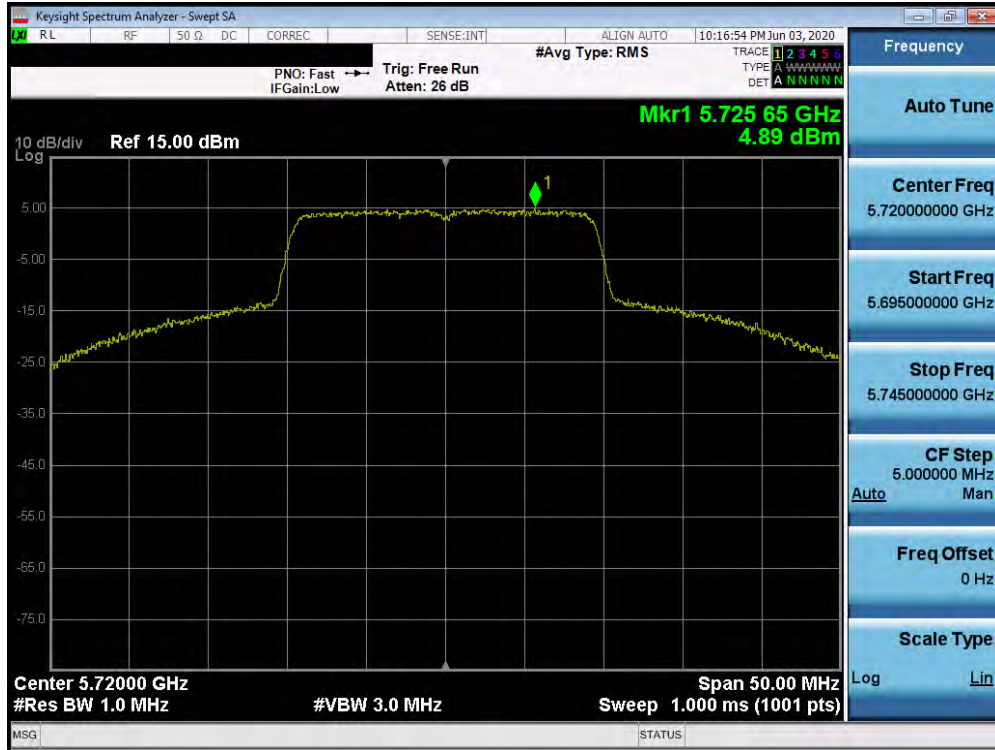


Plot 7-229. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 100)

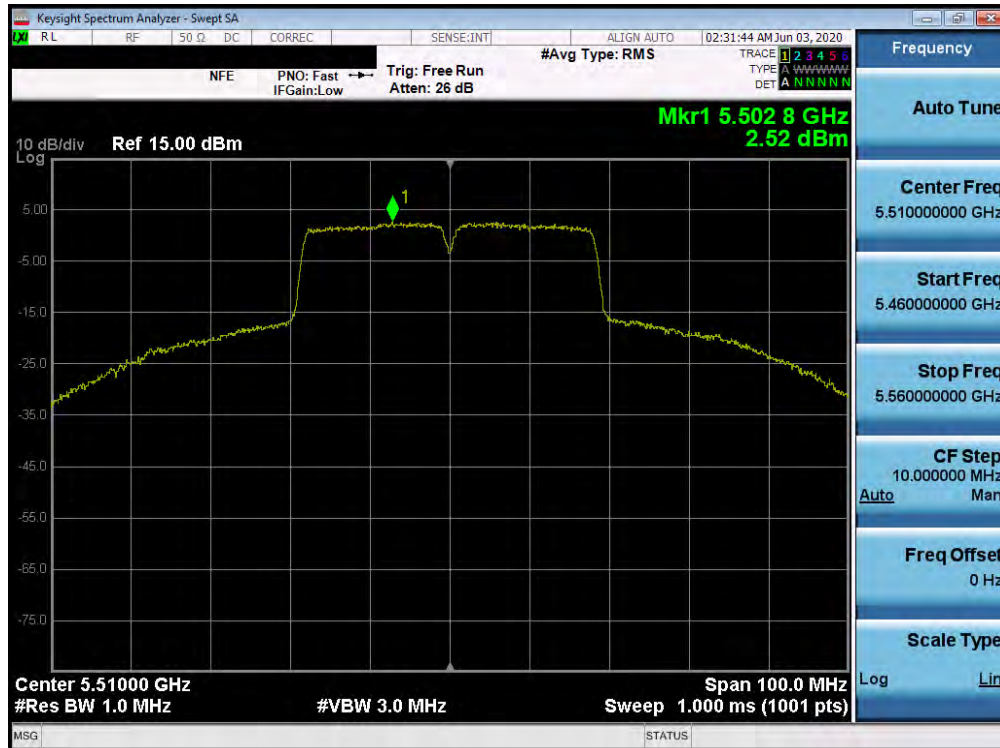


Plot 7-230. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 120)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 152 of 233

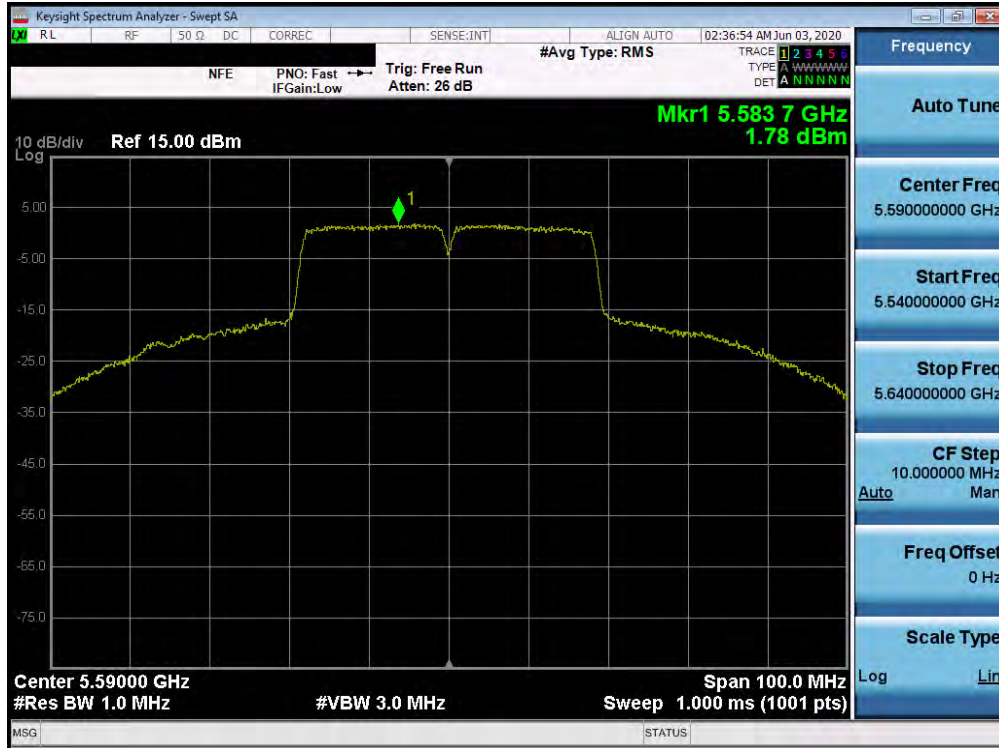


Plot 7-231. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 2C) – Ch. 144)

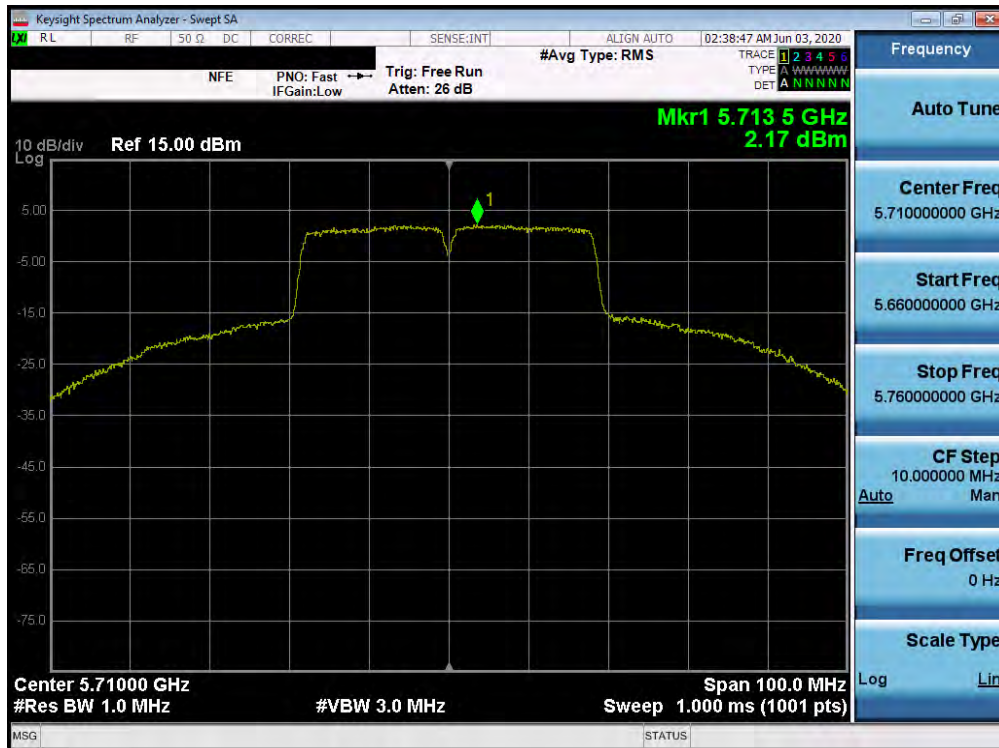


Plot 7-232. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 153 of 233

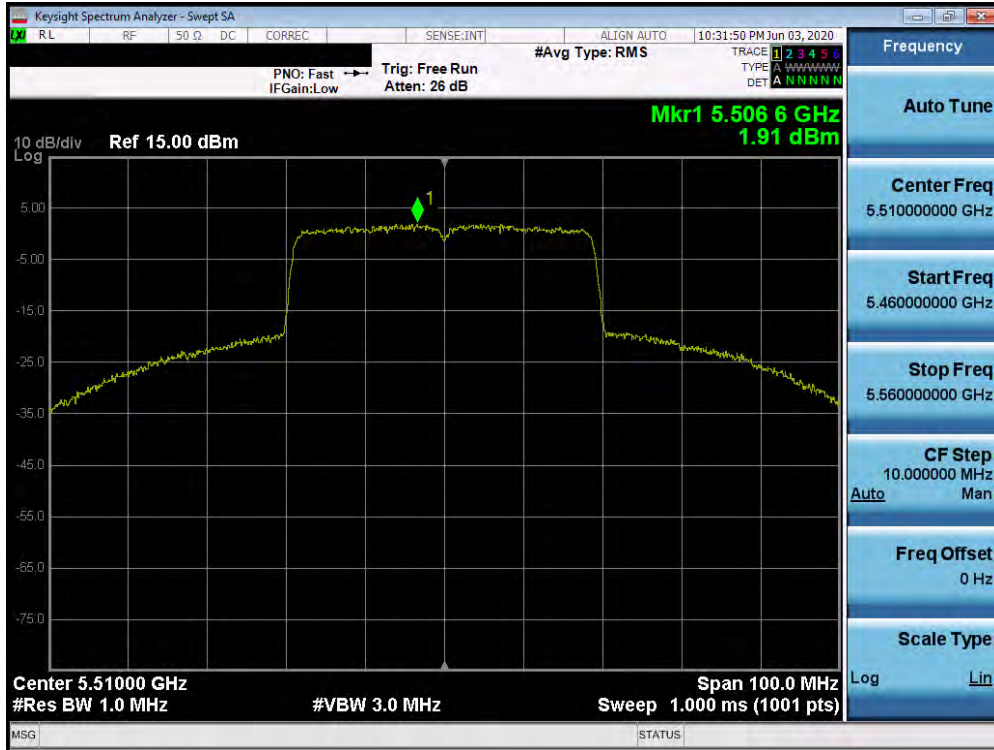


Plot 7-233. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 118)

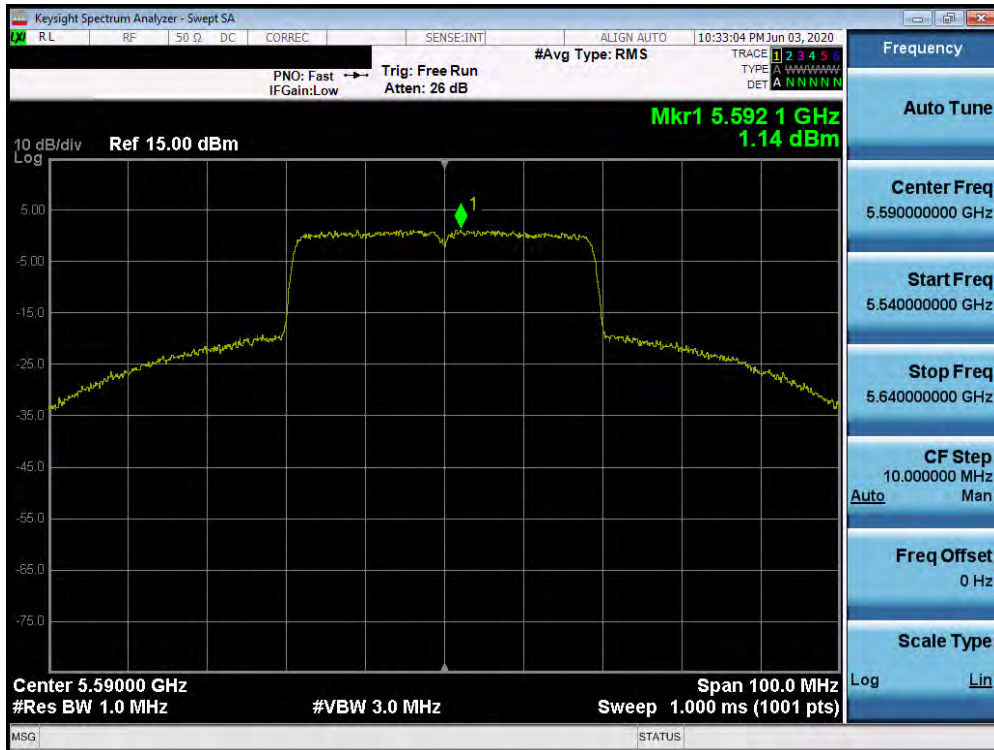


Plot 7-234. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)

FCC ID: A3LSMN986JPN	PCTEST Proud to be part of elemental	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 154 of 233

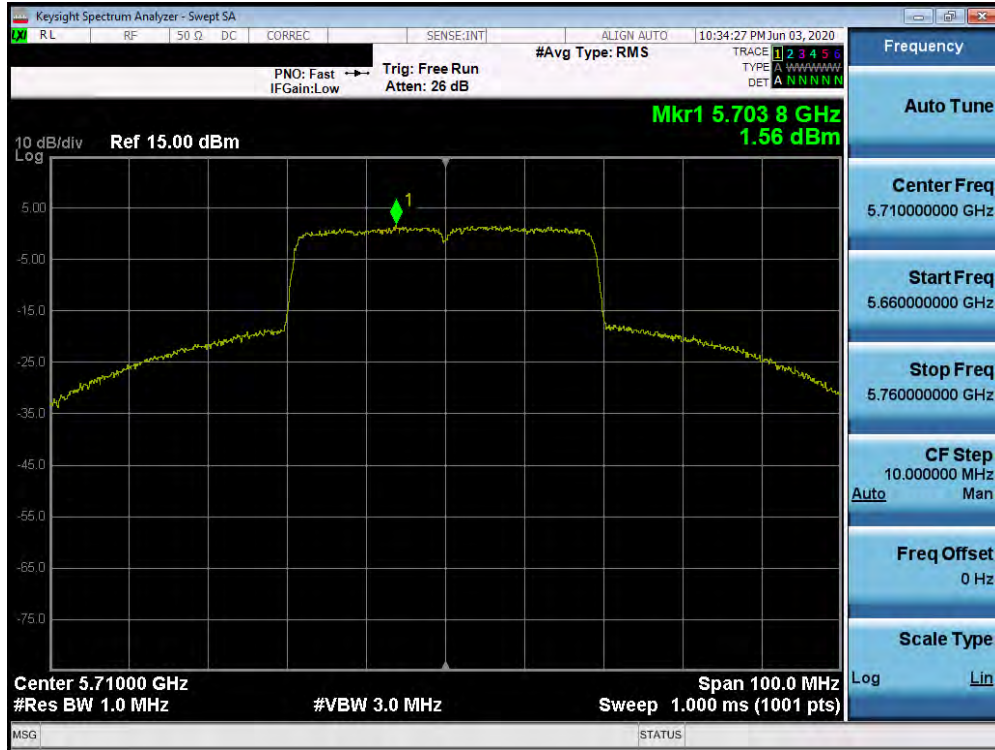


Plot 7-235. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 102)

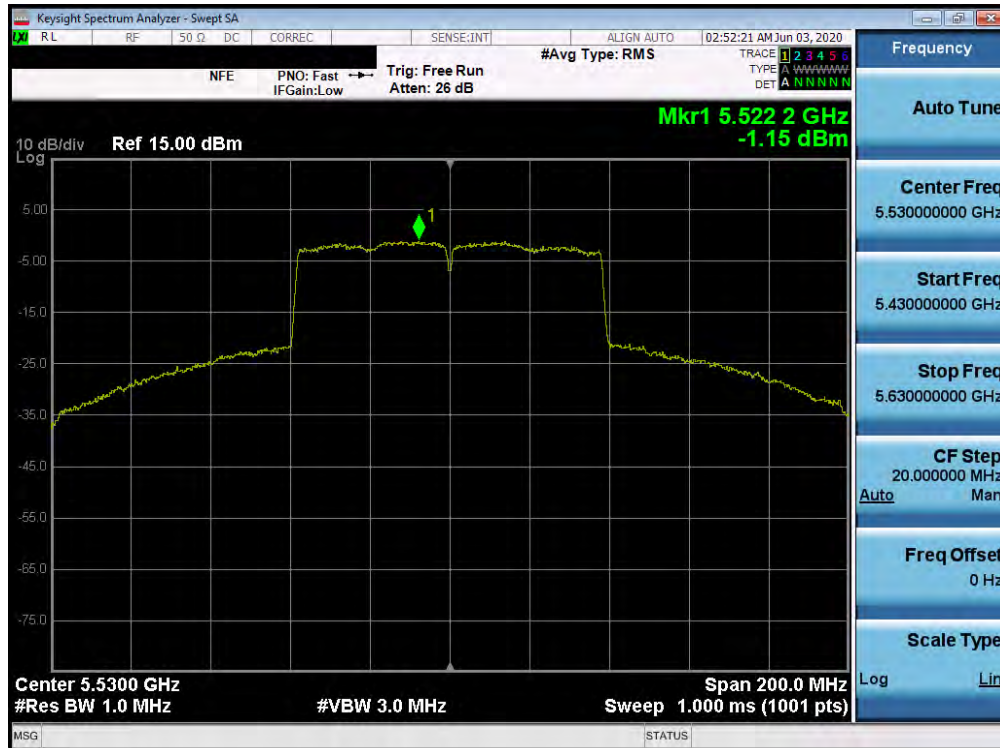


Plot 7-236. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 118)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 155 of 233

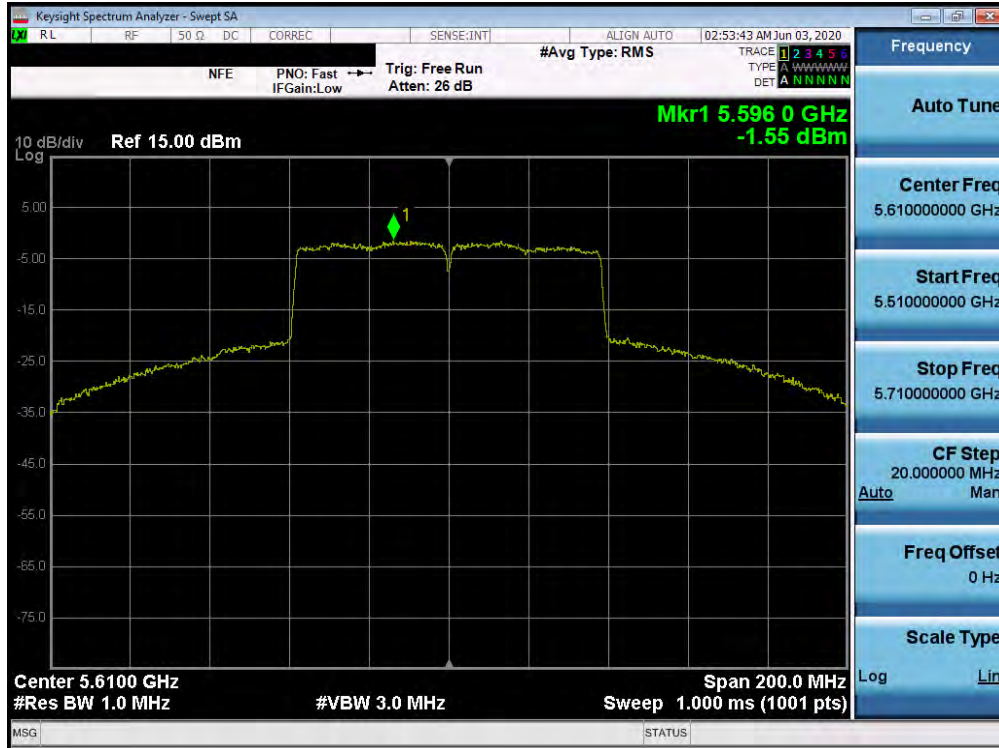


Plot 7-237. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 2C) – Ch. 142)

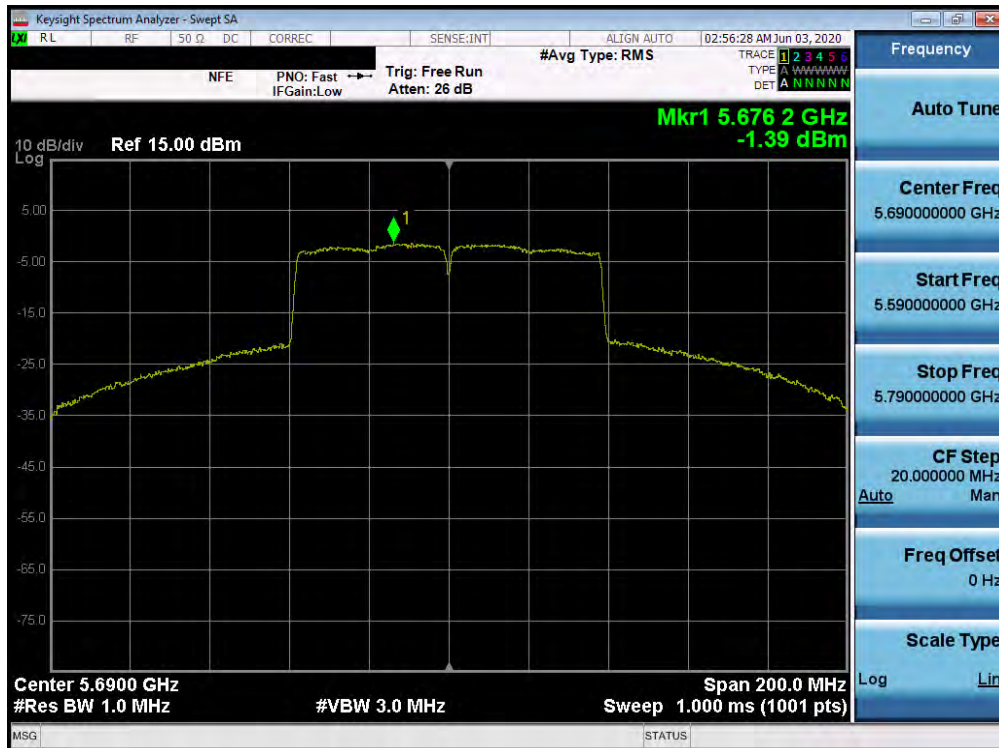


Plot 7-238. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 156 of 233

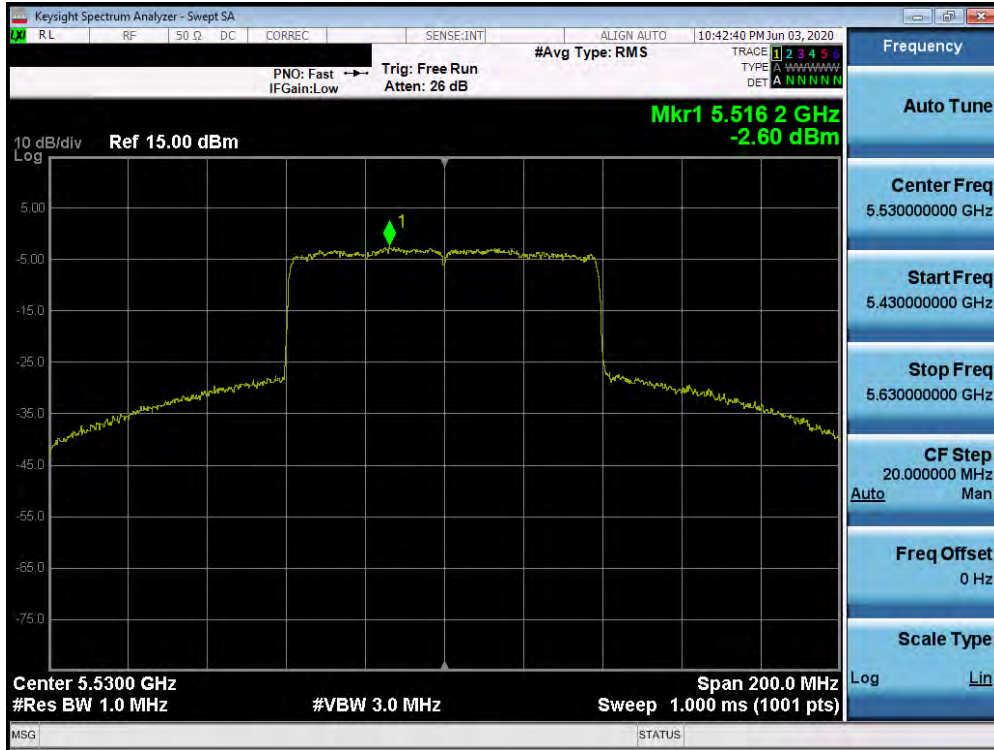


Plot 7-239. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 122)

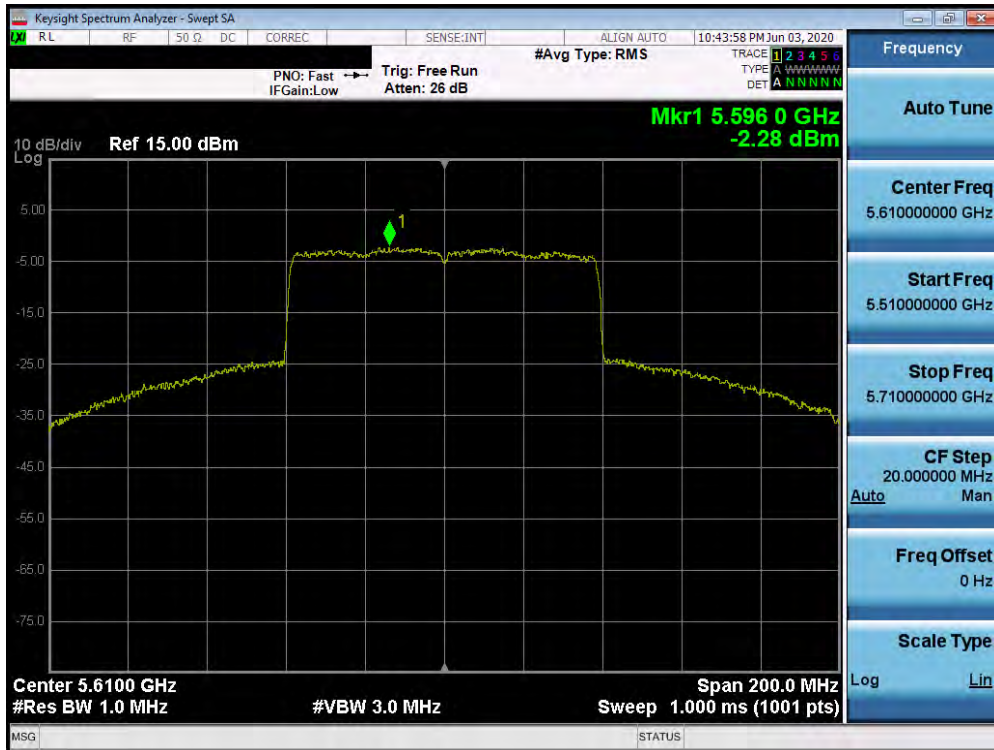


Plot 7-240. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 157 of 233

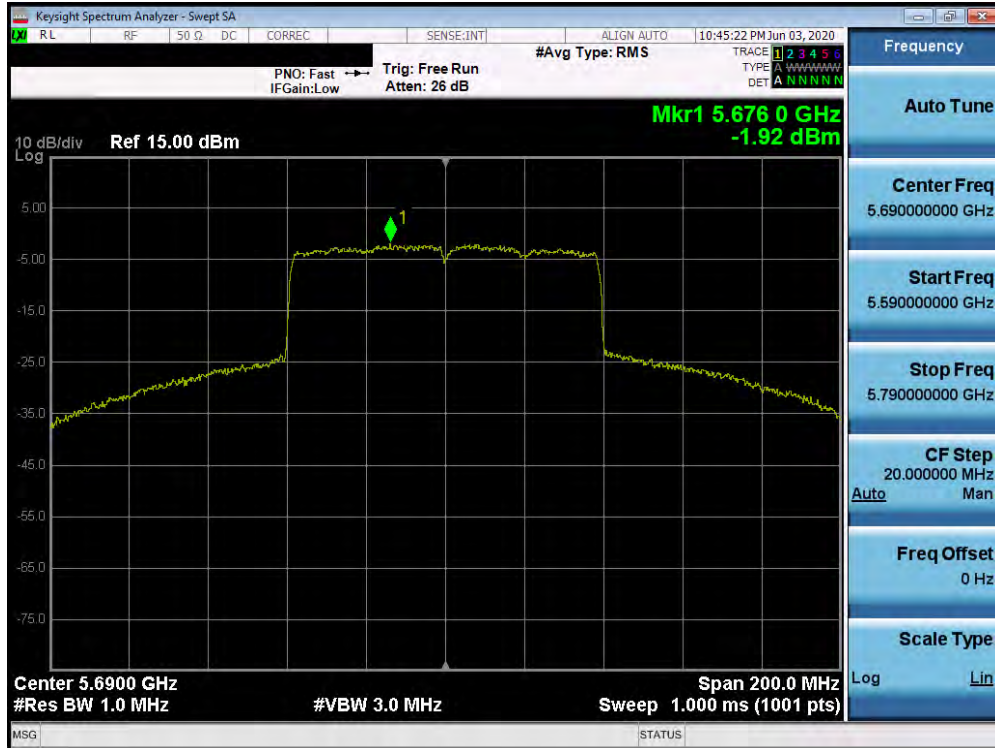


Plot 7-241. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 106)



Plot 7-242. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 122)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 158 of 233

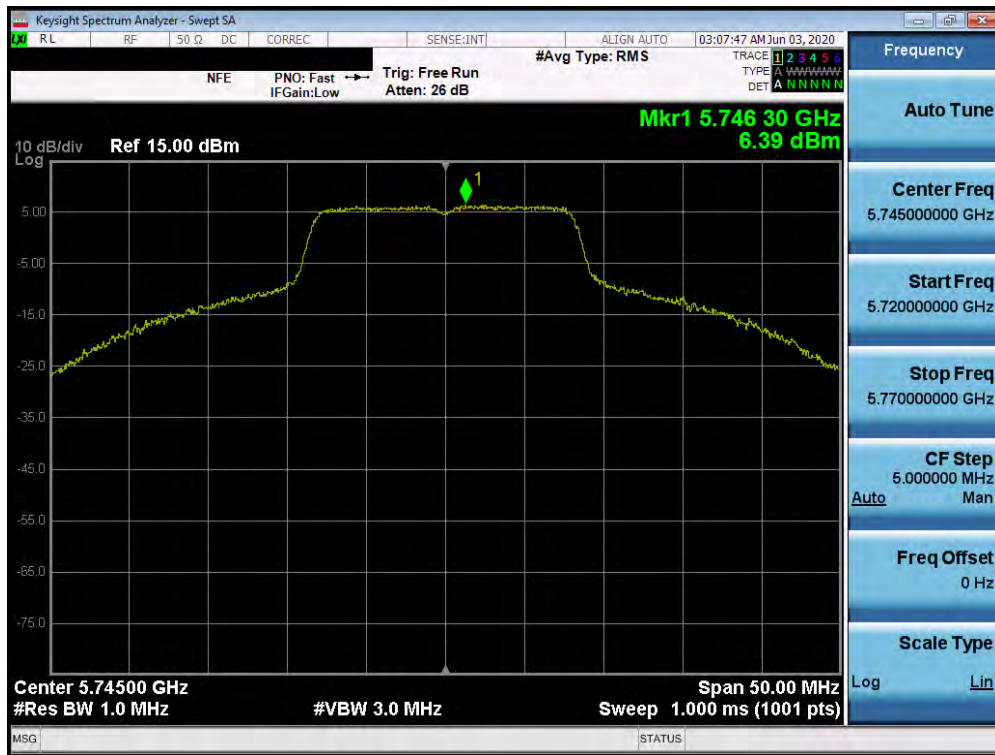


Plot 7-243. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 159 of 233

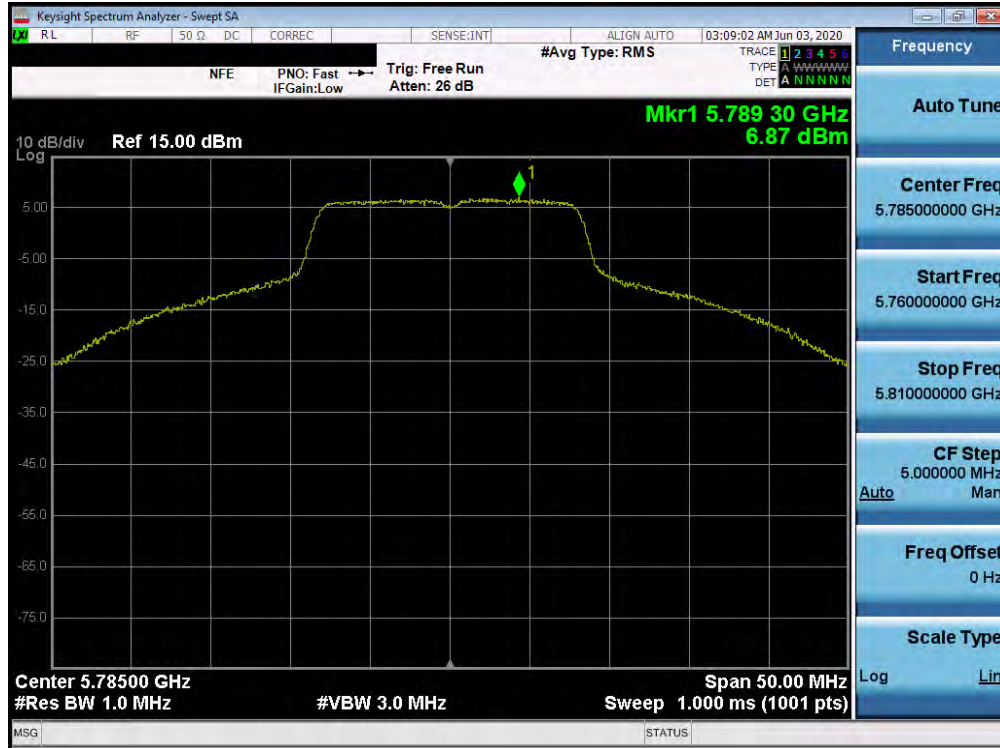
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	6.39	30.0	-23.61
	5785	157	a	6	6.87	30.0	-23.13
	5825	165	a	6	6.41	30.0	-23.59
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.00	30.0	-24.00
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	6.50	30.0	-23.50
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	6.06	30.0	-23.94
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	5.08	30.0	-24.92
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	5.45	30.0	-24.55
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	5.35	30.0	-24.65
	5755	151	n (40MHz)	13.5/15 (MCS0)	1.89	30.0	-28.11
	5795	159	n (40MHz)	13.5/15 (MCS0)	1.61	30.0	-28.39
	5755	151	ax (40MHz)	13.5/15 (MCS0)	2.15	30.0	-27.85
	5795	159	ax (40MHz)	13.5/15 (MCS0)	2.22	30.0	-27.78
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-0.98	30.0	-30.98
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-1.55	30.0	-31.55

Table 7-24. Band 3 Conducted Power Spectral Density Measurements SISO ANT2

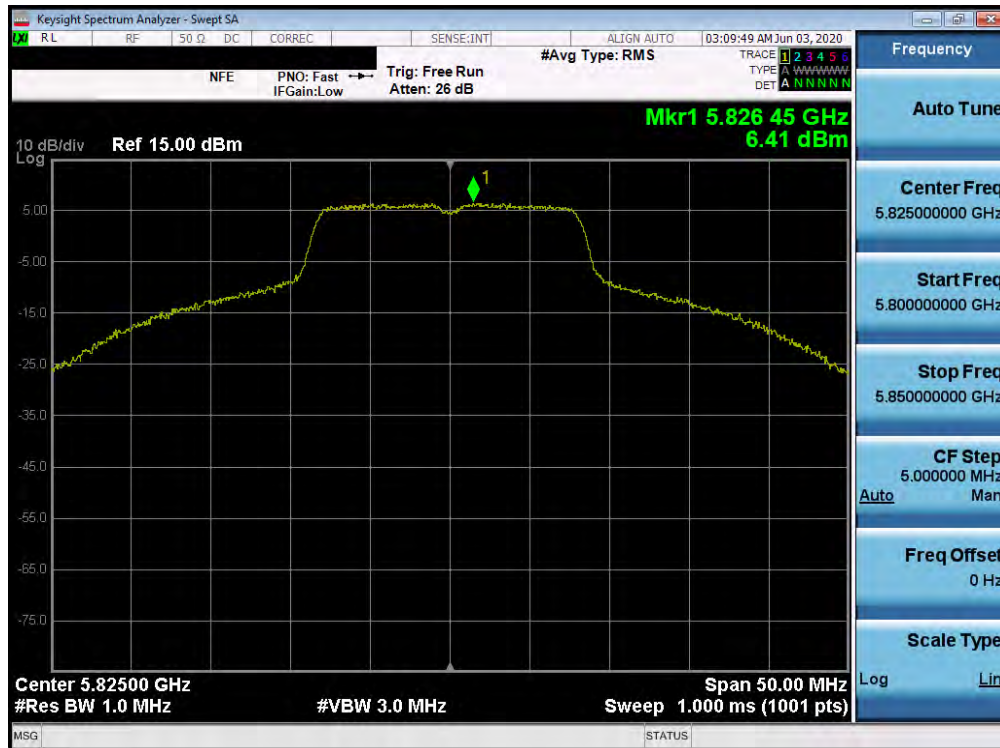


Plot 7-244. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 160 of 233

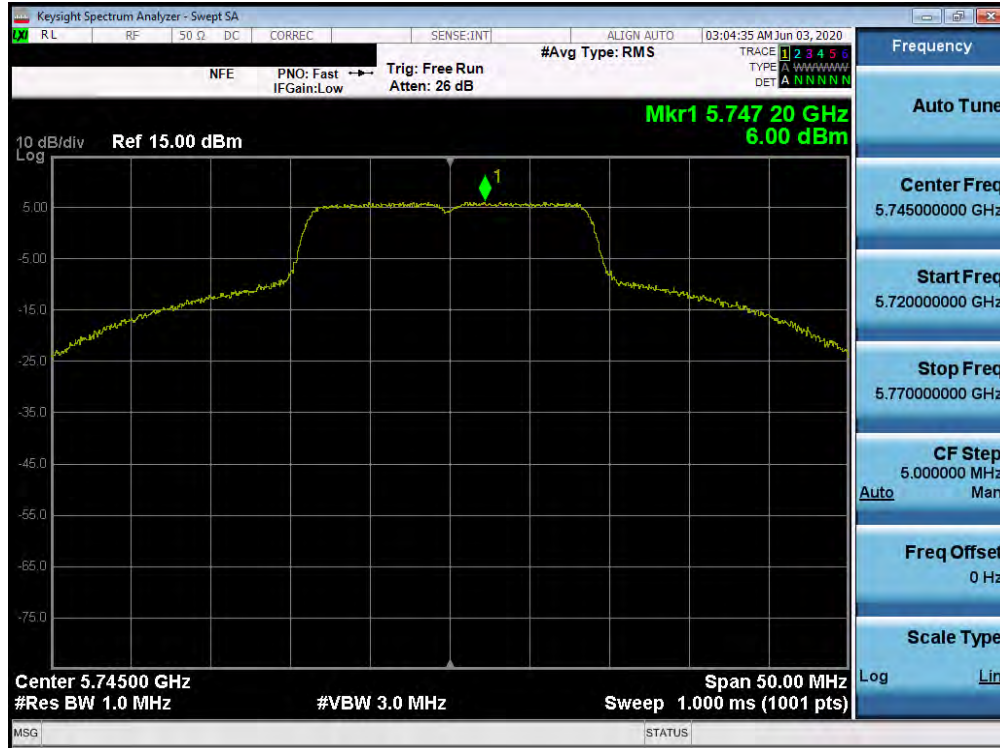


Plot 7-245. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 157)

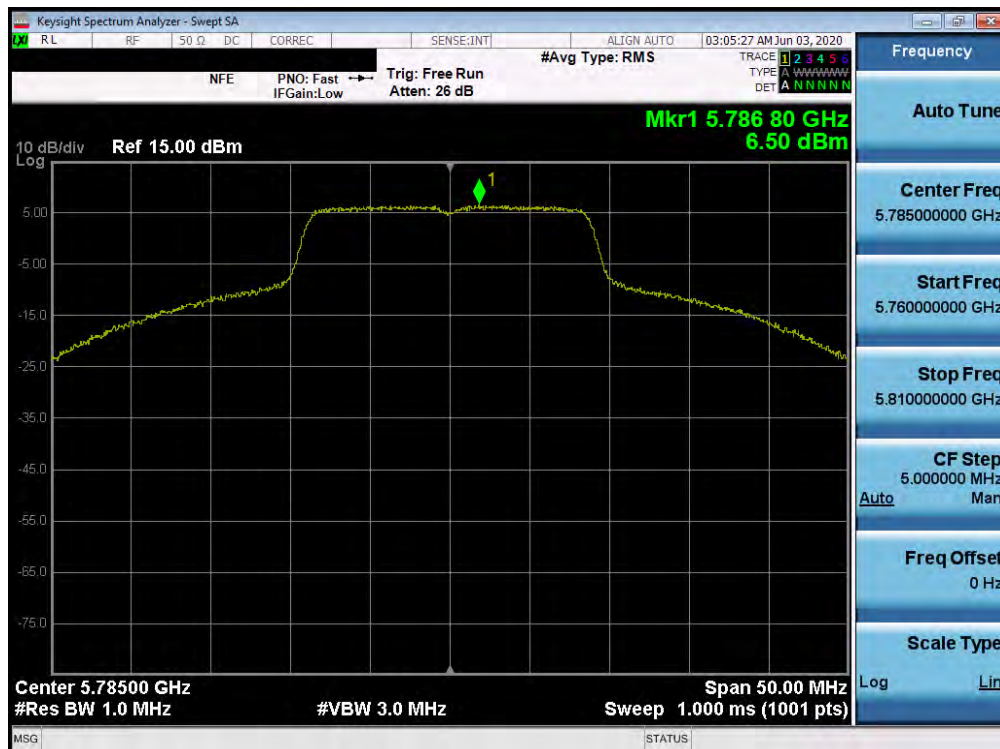


Plot 7-246. Power Spectral Density Plot SISO ANT2 (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 161 of 233

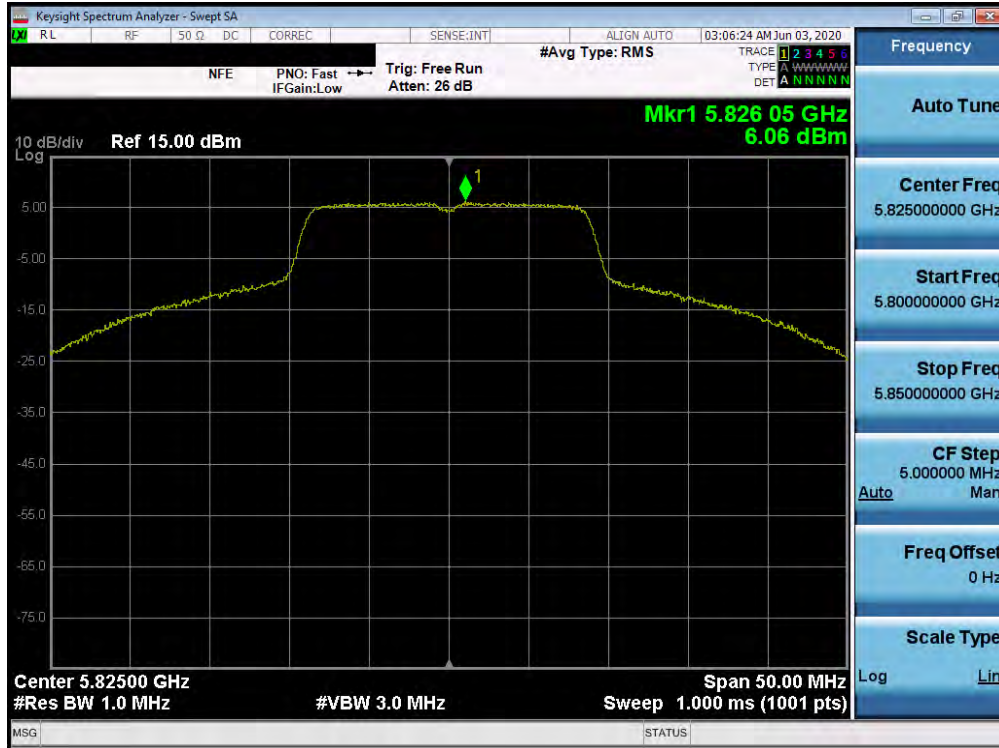


Plot 7-247. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

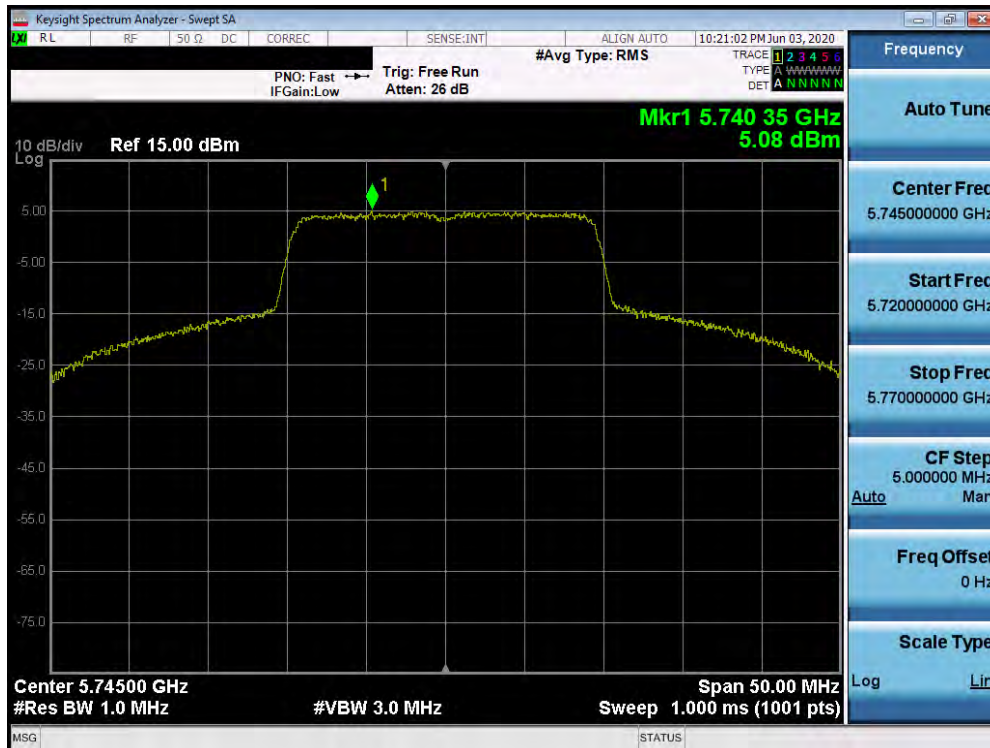


Plot 7-248. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 162 of 233

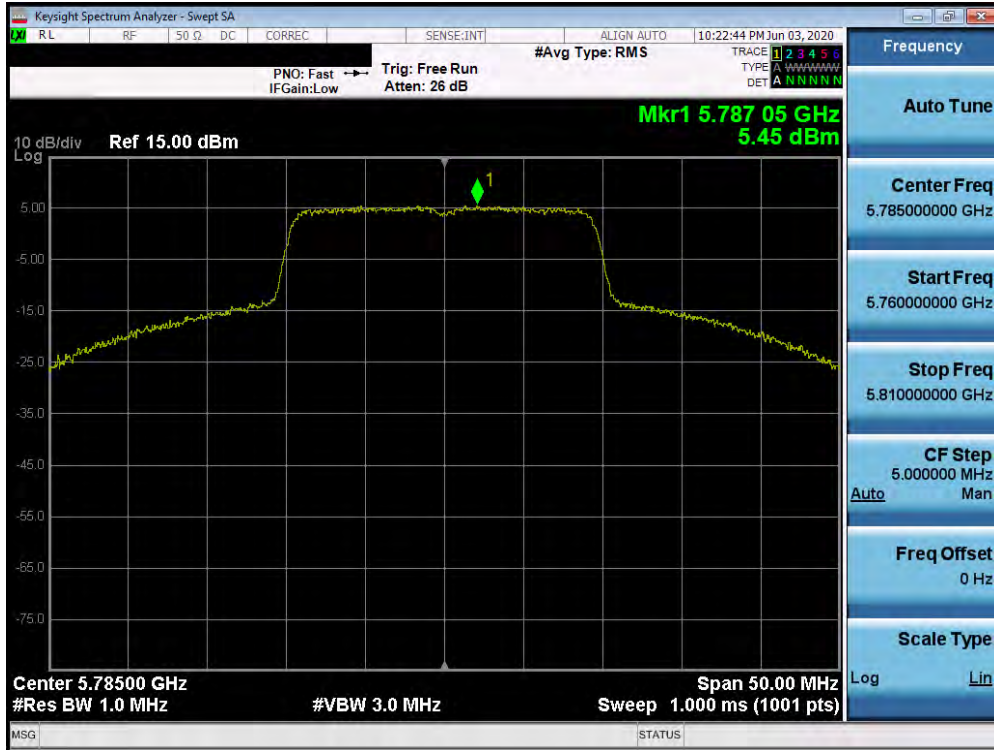


Plot 7-249. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

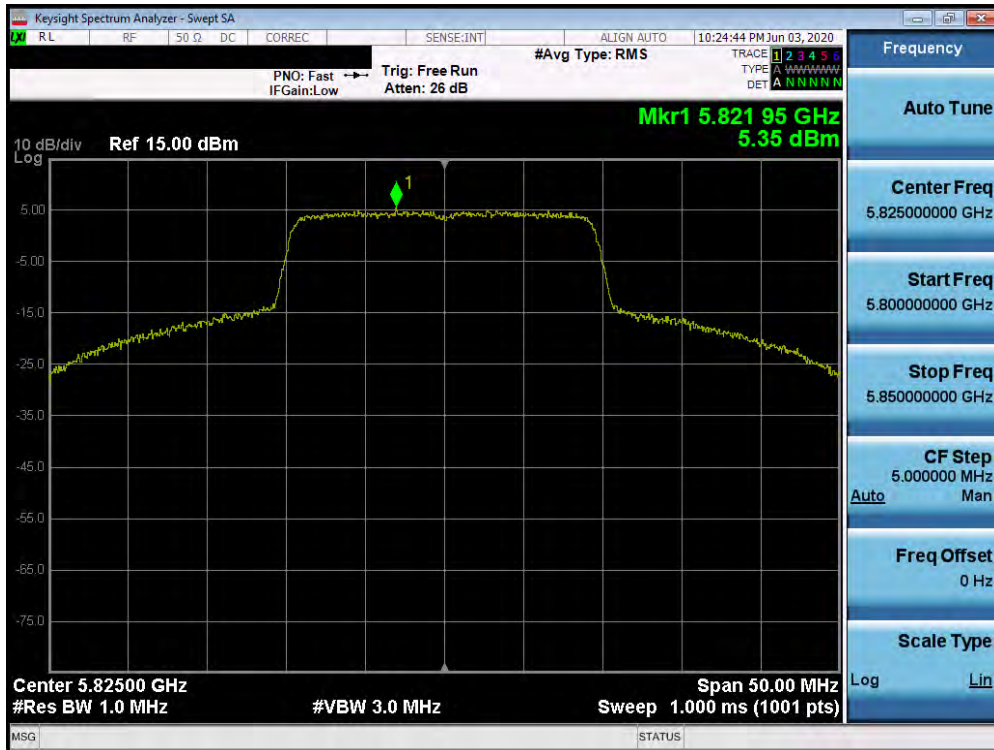


Plot 7-250. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 149)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 163 of 233

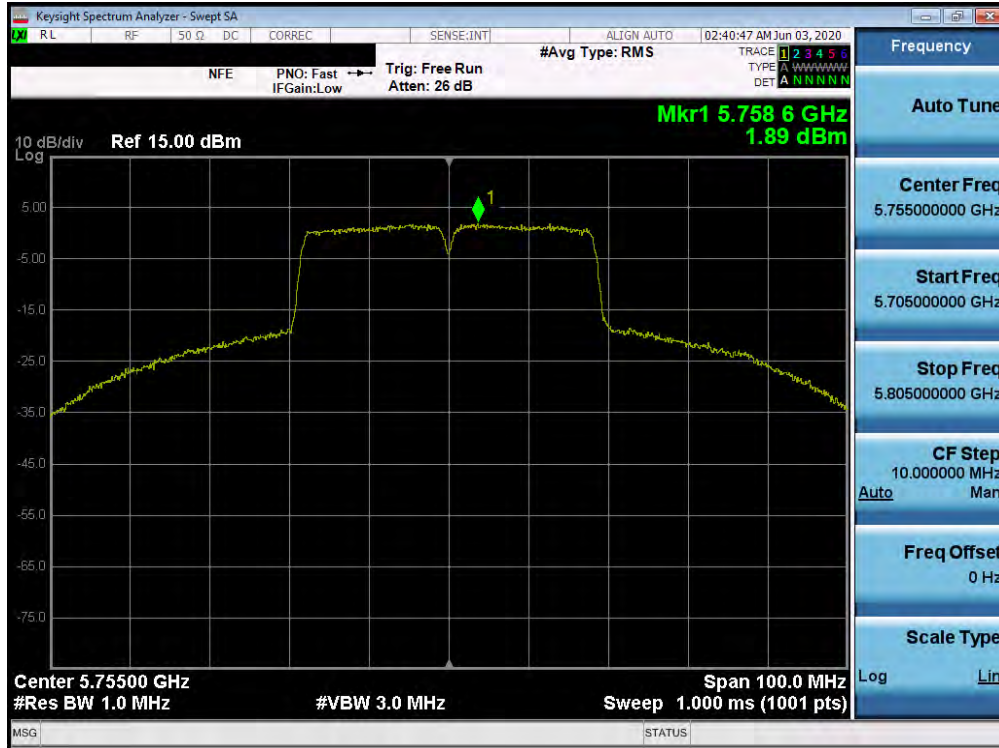


Plot 7-251. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 157)

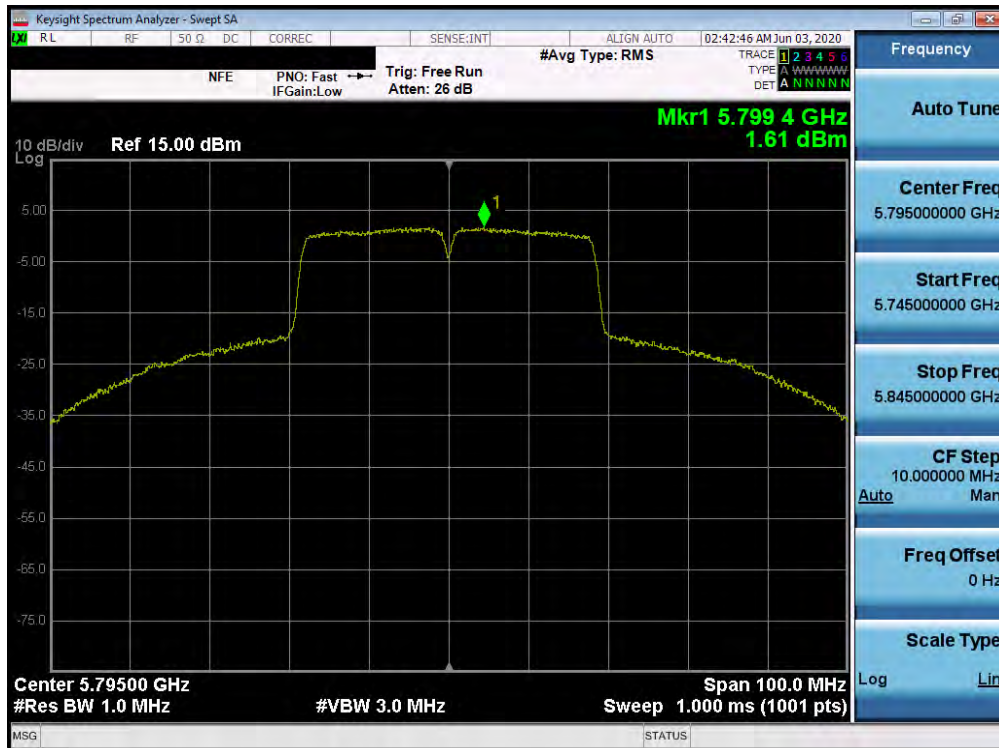


Plot 7-252. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax (UNII Band 3) – Ch. 165)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 164 of 233

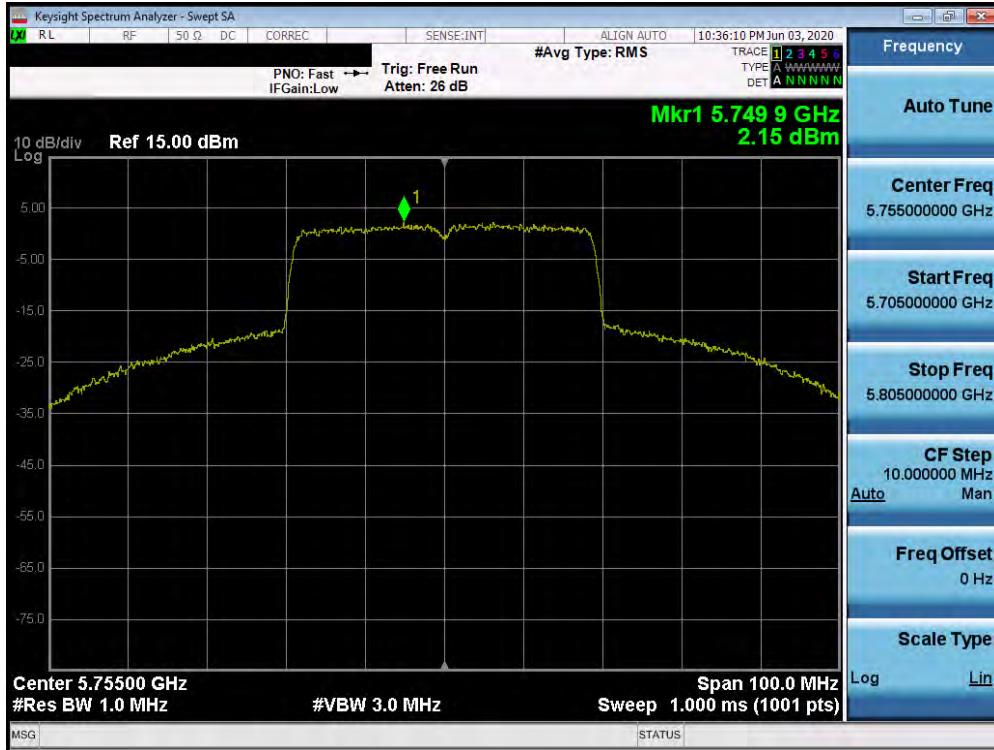


Plot 7-253. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

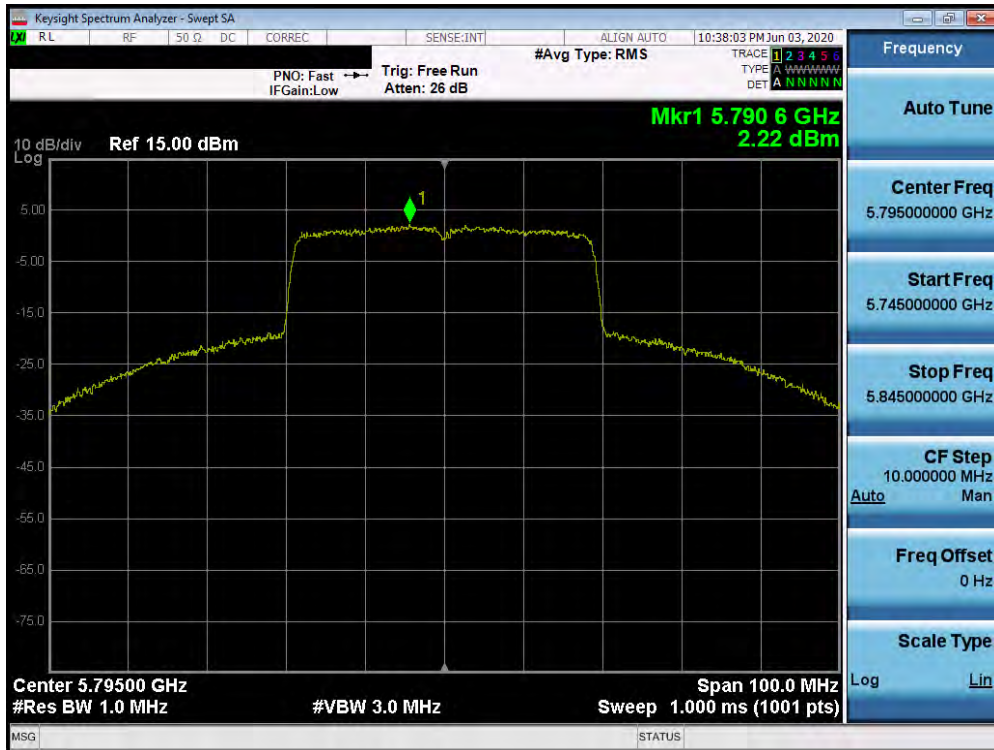


Plot 7-254. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11n (UNII Band 3) – Ch. 159)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 165 of 233

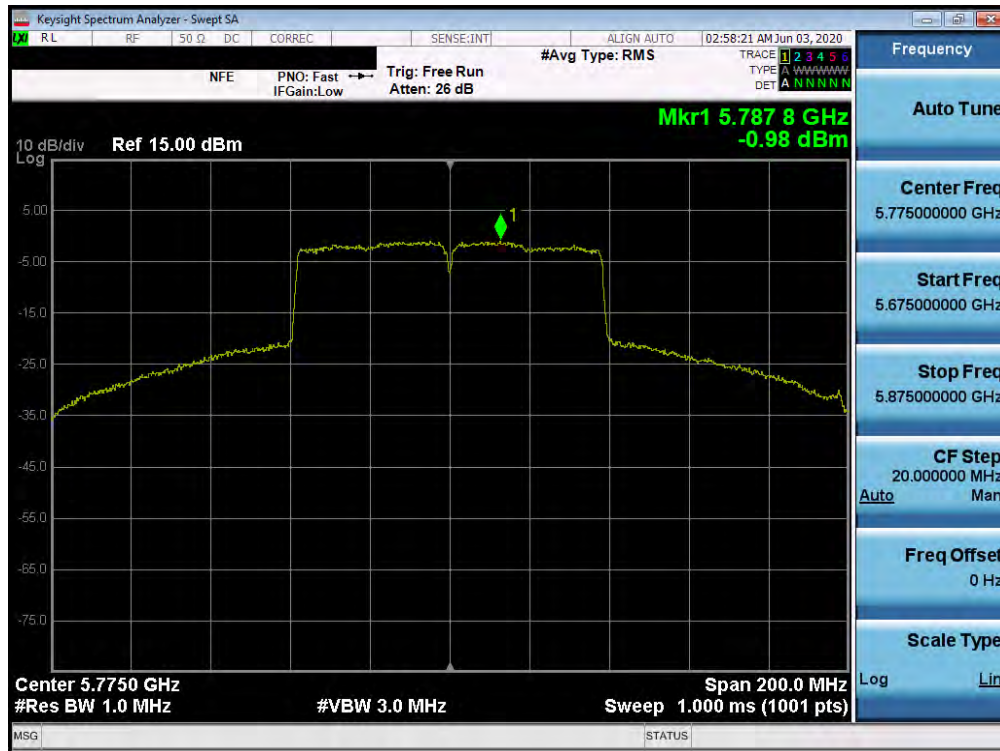


Plot 7-255. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 151)

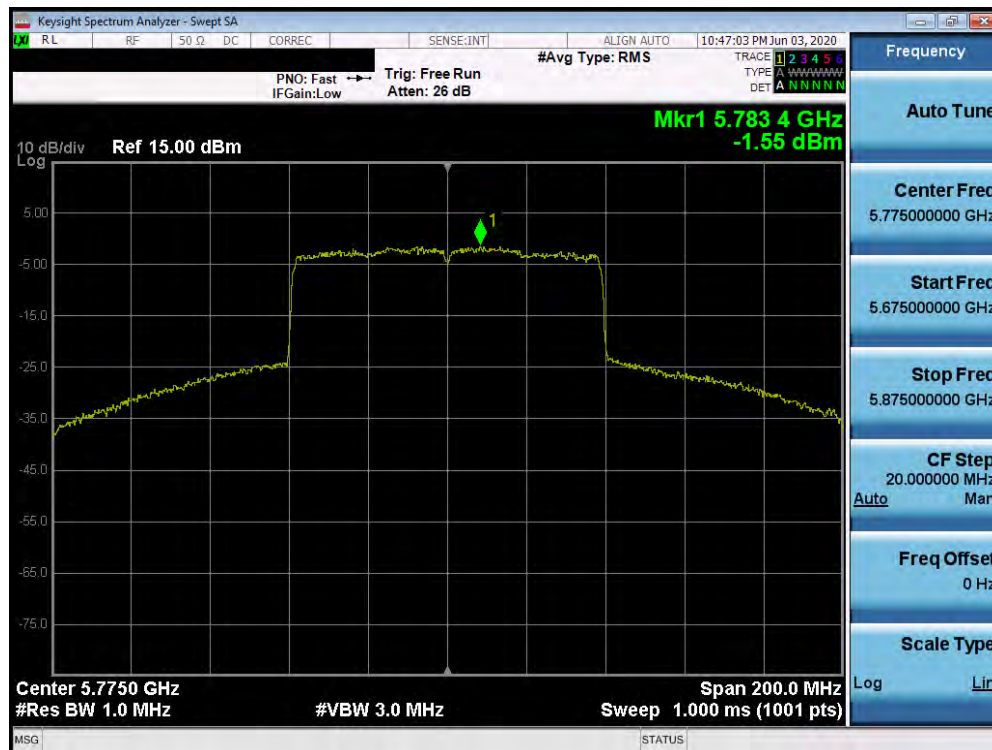


Plot 7-256. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax (UNII Band 3) – Ch. 159)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 166 of 233



Plot 7-257. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)



Plot 7-258. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax (UNII Band 3) – Ch. 155)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 167 of 233

Summed MIMO Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	a	6	6.26	6.18	9.23	11.0	-1.77
	5200	40	a	6	6.55	6.29	9.43	11.0	-1.57
	5240	48	a	6	7.02	6.58	9.82	11.0	-1.18
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	5.85	5.78	8.83	11.0	-2.17
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	6.24	5.95	9.11	11.0	-1.89
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	6.77	6.35	9.58	11.0	-1.42
	5180	36	ax (20MHz)	6.5/7.2 (MCS0)	4.32	4.76	7.56	11.0	-3.44
	5200	40	ax (20MHz)	6.5/7.2 (MCS0)	4.68	5.13	7.92	11.0	-3.08
	5240	48	ax (20MHz)	6.5/7.2 (MCS0)	5.34	5.60	8.48	11.0	-2.52
	5190	38	n (40MHz)	13.5/15 (MCS0)	1.90	1.82	4.87	11.0	-6.13
	5230	46	n (40MHz)	13.5/15 (MCS0)	2.14	1.96	5.06	11.0	-5.94
	5190	38	ax (40MHz)	13.5/15 (MCS0)	1.69	2.12	4.92	11.0	-6.08
	5230	46	ax (40MHz)	13.5/15 (MCS0)	2.30	2.24	5.28	11.0	-5.72
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-1.09	-1.32	1.80	11.0	-9.20
5210	42	ax (80MHz)	29.3/32.5 (MCS0)	-1.79	-2.02	1.10	11.0	-9.90	
Band 2A	5260	52	a	6	7.20	7.00	10.11	11.0	-0.89
	5280	56	a	6	6.81	6.87	9.85	11.0	-1.15
	5320	64	a	6	6.85	6.55	9.72	11.0	-1.28
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	6.53	6.69	9.62	11.0	-1.38
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	6.63	6.58	9.61	11.0	-1.39
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	6.51	6.11	9.32	11.0	-1.68
	5260	52	ax (20MHz)	6.5/7.2 (MCS0)	5.39	5.58	8.50	11.0	-2.50
	5280	56	ax (20MHz)	6.5/7.2 (MCS0)	5.63	5.72	8.69	11.0	-2.31
	5320	64	ax (20MHz)	6.5/7.2 (MCS0)	5.42	5.22	8.33	11.0	-2.67
	5270	54	n (40MHz)	13.5/15 (MCS0)	2.39	1.89	5.16	11.0	-5.84
	5310	62	n (40MHz)	13.5/15 (MCS0)	2.96	2.77	5.88	11.0	-5.12
	5270	54	ax (40MHz)	13.5/15 (MCS0)	2.17	2.35	5.27	11.0	-5.73
	5310	62	ax (40MHz)	13.5/15 (MCS0)	2.15	1.86	5.02	11.0	-5.98
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-1.13	-1.76	1.58	11.0	-9.42
5290	58	ax (80MHz)	29.3/32.5 (MCS0)	-1.76	-1.70	1.28	11.0	-9.72	
Band 2C	5500	100	a	6	6.55	6.24	9.41	11.0	-1.59
	5600	120	a	6	5.83	5.55	8.70	11.0	-2.30
	5720	144	a	6	6.35	6.04	9.21	11.0	-1.79
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	6.32	5.75	9.05	11.0	-1.95
	5600	120	n (20MHz)	6.5/7.2 (MCS0)	5.90	5.28	8.61	11.0	-2.39
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	6.09	5.89	9.00	11.0	-2.00
	5500	100	ax (20MHz)	6.5/7.2 (MCS0)	5.24	5.12	8.19	11.0	-2.81
	5600	120	ax (20MHz)	6.5/7.2 (MCS0)	4.87	4.40	7.66	11.0	-3.34
	5720	144	ax (20MHz)	6.5/7.2 (MCS0)	5.15	4.89	8.03	11.0	-2.97
	5510	102	n (40MHz)	13.5/15 (MCS0)	2.57	2.52	5.56	11.0	-5.44
	5590	118	n (40MHz)	13.5/15 (MCS0)	2.34	1.78	5.08	11.0	-5.92
	5710	142	n (40MHz)	13.5/15 (MCS0)	2.78	2.17	5.50	11.0	-5.50
	5510	102	ax (40MHz)	13.5/15 (MCS0)	2.05	1.91	4.99	11.0	-6.01
	5590	118	ax (40MHz)	13.5/15 (MCS0)	1.49	1.14	4.33	11.0	-6.67
	5710	142	ax (40MHz)	13.5/15 (MCS0)	1.93	1.56	4.76	11.0	-6.24
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-1.36	-1.15	1.76	11.0	-9.24
	5610	122	ac (80MHz)	29.3/32.5 (MCS0)	-1.28	-1.55	1.60	11.0	-9.40
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-0.32	-1.39	2.19	11.0	-8.81
	5530	106	ax (80MHz)	29.3/32.5 (MCS0)	-1.81	-2.60	0.82	11.0	-10.18
5610	122	ax (80MHz)	29.3/32.5 (MCS0)	-1.93	-2.28	0.91	11.0	-10.09	
5690	138	ax (80MHz)	29.3/32.5 (MCS0)	-1.79	-1.92	1.16	11.0	-9.84	

Table 7-25. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements

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	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenn-1 Power Density [dBm]	Antenn-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
Band 3	5745	149	a	6	6.48	6.39	9.45	30.0	-20.55
	5785	157	a	6	6.71	6.87	9.80	30.0	-20.20
	5825	165	a	6	5.89	6.41	9.17	30.0	-20.83
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	6.19	6.00	9.11	30.0	-20.89
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	5.98	6.50	9.26	30.0	-20.74
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	5.51	6.06	8.80	30.0	-21.20
	5745	149	ax (20MHz)	6.5/7.2 (MCS0)	5.41	5.08	8.26	30.0	-21.74
	5785	157	ax (20MHz)	6.5/7.2 (MCS0)	5.30	5.45	8.38	30.0	-21.62
	5825	165	ax (20MHz)	6.5/7.2 (MCS0)	5.53	5.35	8.45	30.0	-21.55
	5755	151	n (40MHz)	13.5/15 (MCS0)	2.60	1.89	5.27	30.0	-24.73
	5795	159	n (40MHz)	13.5/15 (MCS0)	2.45	1.61	5.06	30.0	-24.94
	5755	151	ax (40MHz)	13.5/15 (MCS0)	1.86	2.15	5.02	30.0	-24.98
	5795	159	ax (40MHz)	13.5/15 (MCS0)	1.68	2.22	4.97	30.0	-25.03
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-1.42	-0.98	1.82	30.0	-28.18
	5775	155	ax (80MHz)	29.3/32.5 (MCS0)	-2.14	-1.55	1.17	30.0	-28.83

Table 7-26. Band 3 MIMO Conducted Power Spectral Density Measurements

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Antenna 1 and Antenna 2 were first measured separately as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Sample MIMO Calculation:

At 5180MHz in 802.11n (20MHz BW) mode, the average conducted power spectral density was measured to be N/A dBm for Antenna-1 and N/A dBm for Antenna-2.

$$\text{Antenna 1} + \text{Antenna 2} = \text{MIMO}$$

$$(5.85 \text{ dBm} + 5.78 \text{ dBm}) = (3.85 \text{ mW} + 3.79 \text{ mW}) = 7.63 \text{ mW} = 8.83 \text{ dBm}$$

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6 Radiated Spurious Emission Measurements – Above 1GHz

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

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-30 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 7-27. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

Average Measurements above 1GHz (Method AD)

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

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Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

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

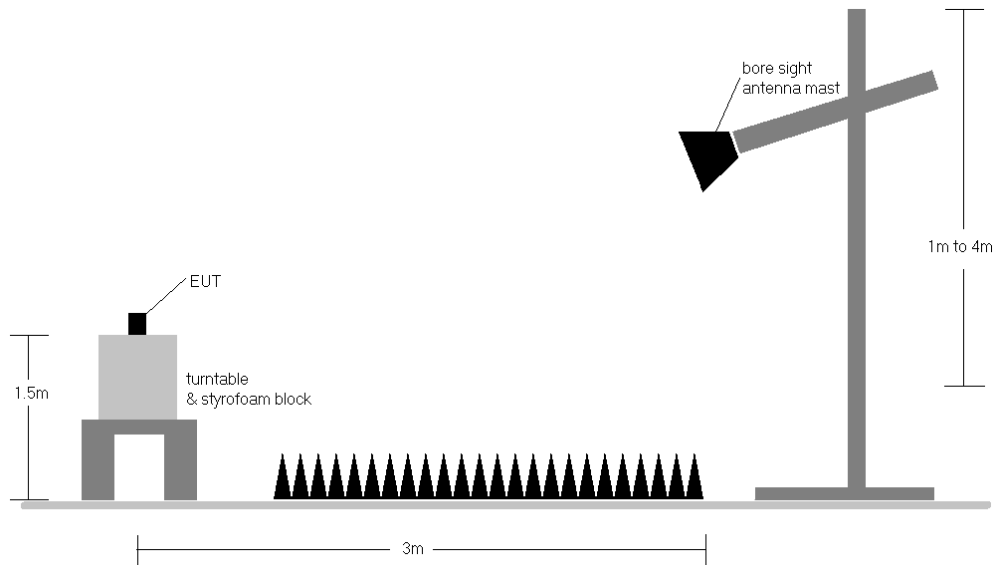


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. Radiated spurious emissions were investigated while operating in MIMO mode, however, it was determined that single antenna operation produced the worst case emissions. Since the emissions produced from MIMO operation were found to be more than 20dB below the limit, the MIMO emissions are not reported.
8. 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.
9. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

Sample Calculations

Determining Spurious Emissions Levels

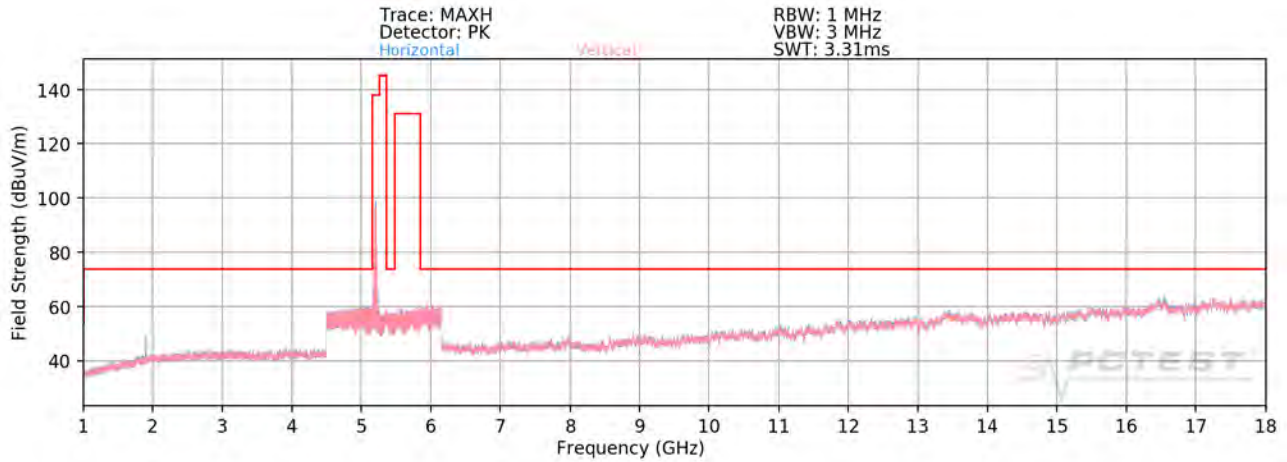
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

Radiated Band Edge Measurement Offset

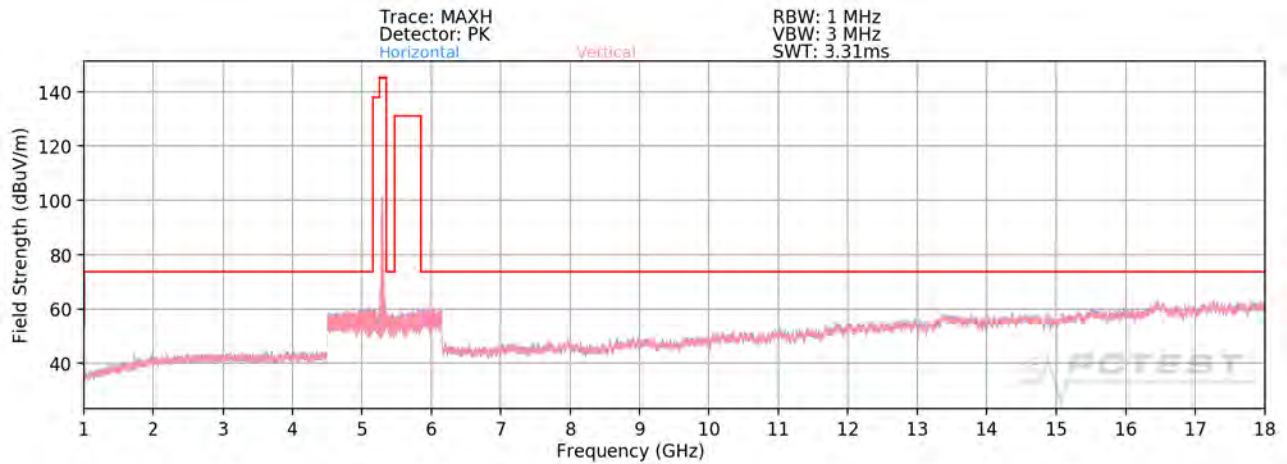
- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Pre-amplifier Gain

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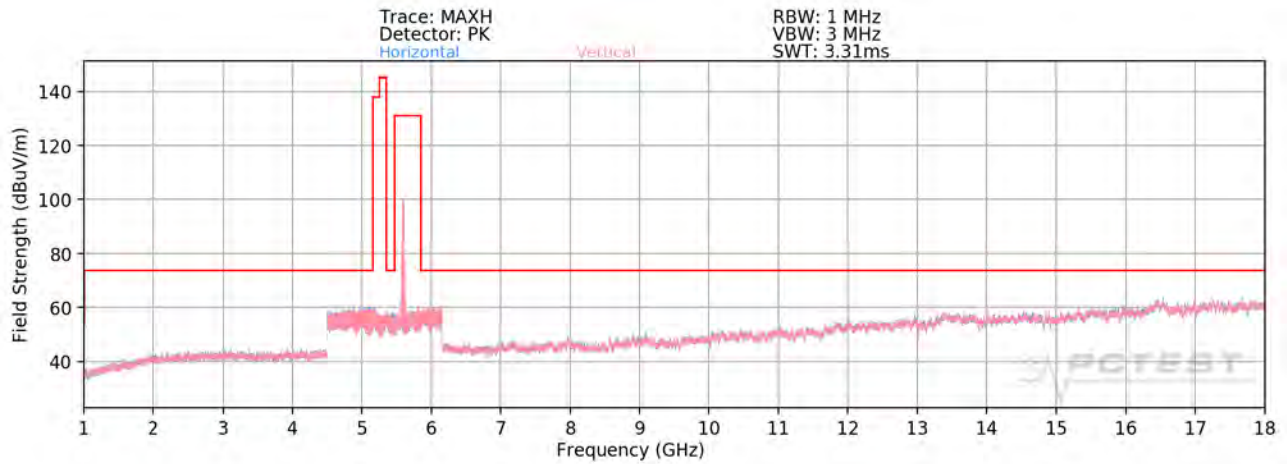
7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements



Plot 7-259. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U1 Ch. 40)

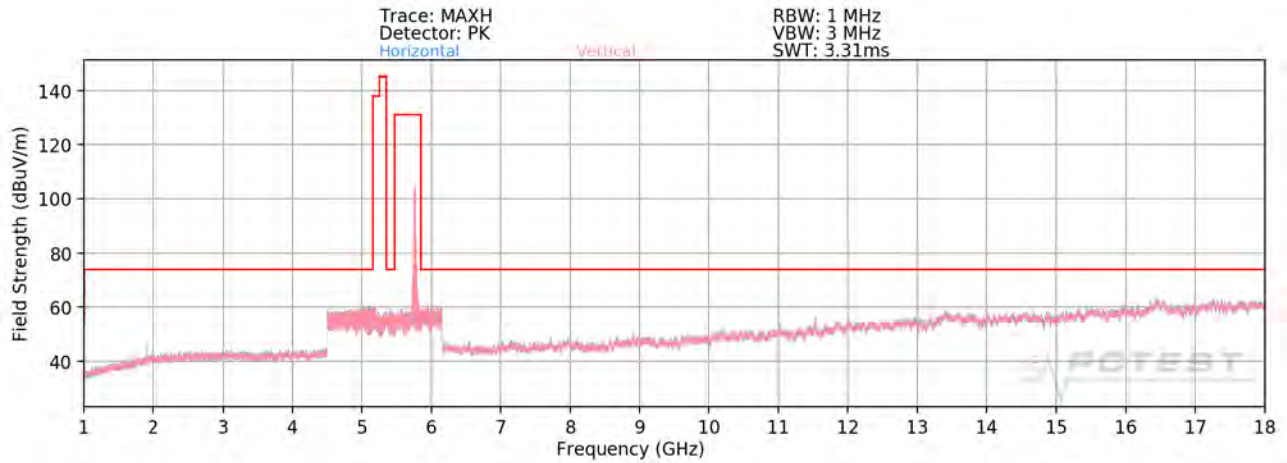


Plot 7-260. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2A Ch. 56)



Plot 7-261. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U2C Ch. 116)

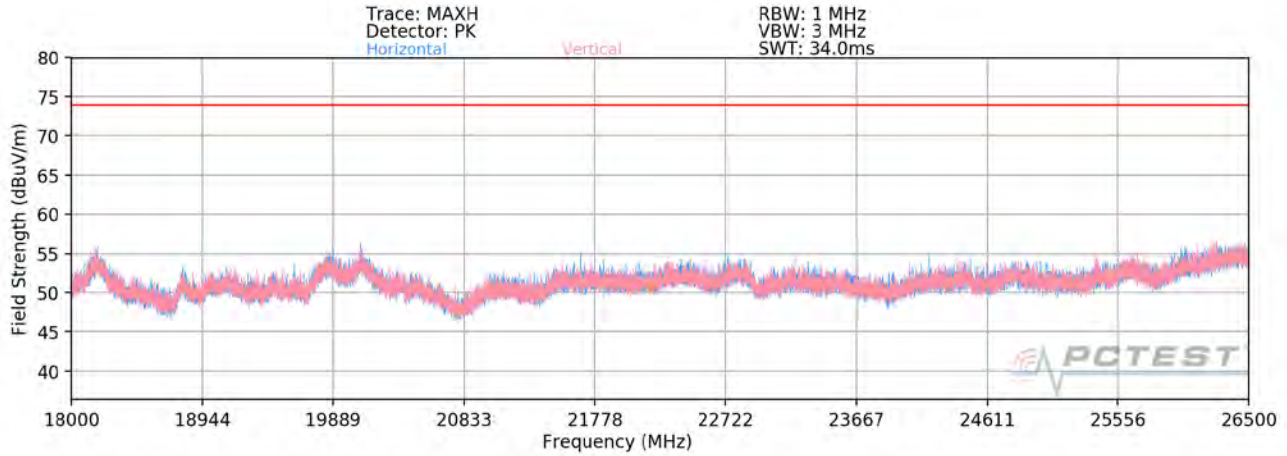
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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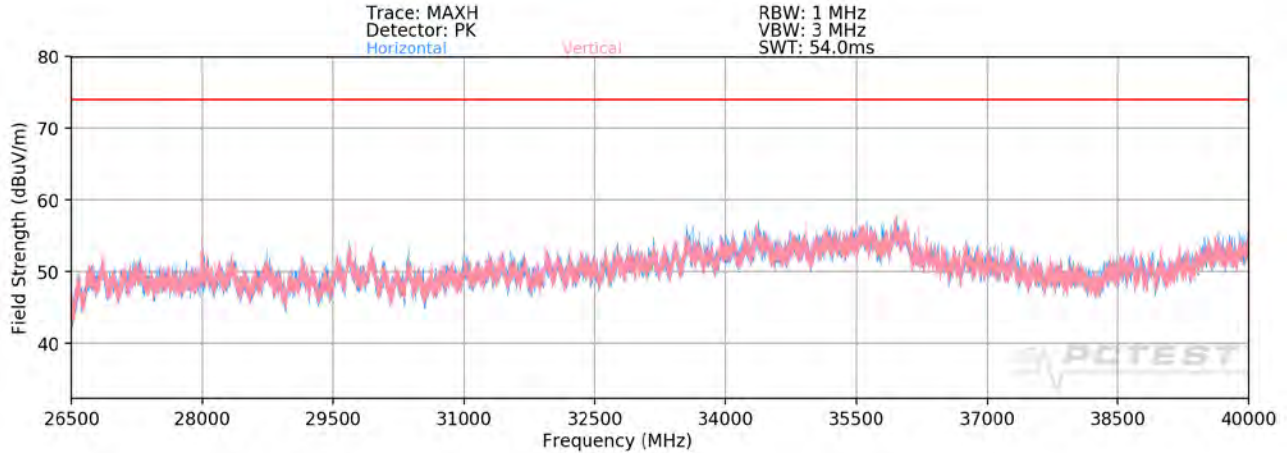
Plot 7-262. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11a – U3 Ch. 157)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-263. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11a)



Plot 7-264. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11a)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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SISO Antenna-1 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	V	-	-	-68.76	14.45	0.00	52.69	68.20	-15.51
* 15540.00	Average	V	115	27	-79.63	21.74	0.00	49.11	53.98	-4.87
* 15540.00	Peak	V	115	27	-66.18	21.74	0.00	62.56	73.98	-11.42
* 20720.00	Average	V	-	-	-71.97	17.88	-9.54	43.37	53.98	-10.61
* 20720.00	Peak	V	-	-	-62.05	17.88	-9.54	53.29	73.98	-20.69
25900.00	Peak	V	-	-	-61.16	20.40	-9.54	56.70	68.20	-11.50

Table 7-28. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	-	-	-69.42	14.60	0.00	52.18	68.20	-16.02
* 15600.00	Average	V	211	21	-78.96	21.90	0.00	49.94	53.98	-4.04
* 15600.00	Peak	V	211	21	-66.68	21.90	0.00	62.22	73.98	-11.76
* 20800.00	Average	V	-	-	-76.73	18.08	-9.54	38.81	53.98	-15.17
* 20800.00	Peak	V	-	-	-66.09	18.08	-9.54	49.45	73.98	-24.53
26000.00	Peak	V	-	-	-64.89	20.68	-9.54	53.25	68.20	-14.95

Table 7-29. Radiated Measurements SISO ANT1

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	V	-	-	-68.79	14.57	0.00	52.78	68.20	-15.42
* 15720.00	Average	V	104	26	-79.60	22.17	0.00	49.57	53.98	-4.41
* 15720.00	Peak	V	104	26	-67.00	22.17	0.00	62.17	73.98	-11.81
* 20960.00	Average	V	-	-	-75.62	18.46	-9.54	40.30	53.98	-13.68
* 20960.00	Peak	V	-	-	-65.06	18.46	-9.54	50.86	73.98	-23.12
26200.00	Peak	V	-	-	-63.61	20.96	-9.54	54.81	68.20	-13.39

Table 7-30. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	-	-	-69.36	15.10	0.00	52.74	68.20	-15.46
* 15780.00	Average	V	119	23	-79.16	21.87	0.00	49.71	53.98	-4.27
* 15780.00	Peak	V	119	23	-66.57	21.87	0.00	62.30	73.98	-11.68
* 21040.00	Average	V	-	-	-74.41	18.64	-9.54	41.69	53.98	-12.29
* 21040.00	Peak	V	-	-	-65.28	18.64	-9.54	50.82	73.98	-23.16
26300.00	Peak	V	-	-	-64.47	21.23	-9.54	54.22	68.20	-13.98

Table 7-31. Radiated Measurements SISO ANT1

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	-	-	-69.51	14.95	0.00	52.44	68.20	-15.76
* 15840.00	Average	V	121	19	-79.54	22.33	0.00	49.79	53.98	-4.19
* 15840.00	Peak	V	121	19	-68.84	22.33	0.00	60.49	73.98	-13.49
* 21120.00	Average	V	-	-	-74.61	18.80	-9.54	41.65	53.98	-12.32
* 21120.00	Peak	V	-	-	-65.01	18.80	-9.54	51.25	73.98	-22.72
26400.00	Peak	V	-	-	-63.27	21.49	-9.54	55.68	68.20	-12.52

Table 7-32. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	-	-	-81.47	15.37	0.00	40.90	53.98	-13.08
* 10640.00	Peak	V	-	-	-69.88	15.37	0.00	52.49	73.98	-21.49
* 15960.00	Average	V	117	21	-80.54	22.27	0.00	48.73	53.98	-5.25
* 15960.00	Peak	V	117	21	-68.59	22.27	0.00	60.68	73.98	-13.30
* 21280.00	Average	V	-	-	-75.51	18.76	-9.54	40.71	53.98	-13.27
* 21280.00	Peak	V	-	-	-65.51	18.76	-9.54	50.71	73.98	-23.27
26600.00	Peak	V	-	-	-64.83	6.35	-9.54	38.98	68.20	-29.22

Table 7-33. Radiated Measurements SISO ANT1

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	113	319	-79.49	16.28	0.00	43.79	53.98	-10.19
* 11000.00	Peak	V	113	319	-68.03	16.28	0.00	55.25	73.98	-18.73
16500.00	Peak	V	291	15	-67.10	23.88	0.00	63.78	68.20	-4.42
22000.00	Peak	V	-	-	-63.76	19.37	-9.54	53.07	68.20	-15.13
27500.00	Peak	V	-	-	-53.56	5.07	-9.54	48.97	68.20	-19.23

Table 7-34. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	Average	V	-	-	-79.97	16.06	0.00	43.09	53.98	-10.89
* 11160.00	Peak	V	-	-	-69.12	16.06	0.00	53.94	73.98	-20.04
16740.00	Peak	V	237	12	-67.87	23.65	0.00	62.78	68.20	-5.42
* 22320.00	Average	V	-	-	-74.15	19.81	-9.54	43.12	53.98	-10.86
* 22320.00	Peak	V	-	-	-64.68	19.81	-9.54	52.59	73.98	-21.39
27900.00	Peak	V	-	-	-53.41	5.83	-9.54	49.88	68.20	-18.32

Table 7-35. Radiated Measurements SISO ANT1

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 180 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5700z
 Channel: 140

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	V	-	-	-81.38	17.03	0.00	42.65	53.98	-11.33
* 11440.00	Peak	V	-	-	-70.21	17.03	0.00	53.82	73.98	-20.16
17160.00	Peak	V	399	173	-69.72	23.47	0.00	60.75	68.20	-7.45
* 22880.00	Average	V	-	-	-74.08	19.64	-9.54	43.02	53.98	-10.96
* 22880.00	Peak	V	-	-	-64.30	19.64	-9.54	52.80	73.98	-21.18
28600.00	Peak	V	-	-	-52.66	5.12	-9.54	49.92	68.20	-18.28

Table 7-36. Radiated Measurements SISO ANT1

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	V	115	359	-77.67	16.80	0.00	46.13	53.98	-7.85
* 11490.00	Peak	V	115	359	-65.80	16.80	0.00	58.00	73.98	-15.98
17235.00	Peak	V	241	41	-70.09	24.70	0.00	61.61	68.20	-6.59
* 22980.00	Average	V	-	-	-75.52	19.39	-9.54	41.33	53.98	-12.65
* 22980.00	Peak	V	-	-	-66.74	19.39	-9.54	50.11	73.98	-23.87
28725.00	Peak	V	-	-	-53.11	6.24	-9.54	50.59	68.20	-17.61

Table 7-37. Radiated Measurements SISO ANT1

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 181 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	123	42	-75.95	16.48	0.00	47.53	53.98	-6.45
* 11570.00	Peak	V	123	42	-63.82	16.48	0.00	59.66	73.98	-14.32
17355.00	Peak	V	-	-	-70.46	25.37	0.00	61.91	68.20	-6.29
23140.00	Peak	V	-	-	-65.30	19.78	-9.54	51.94	68.20	-16.26
28925.00	Peak	V	-	-	-54.80	5.18	-9.54	47.84	68.20	-20.36

Table 7-38. Radiated Measurements SISO ANT1

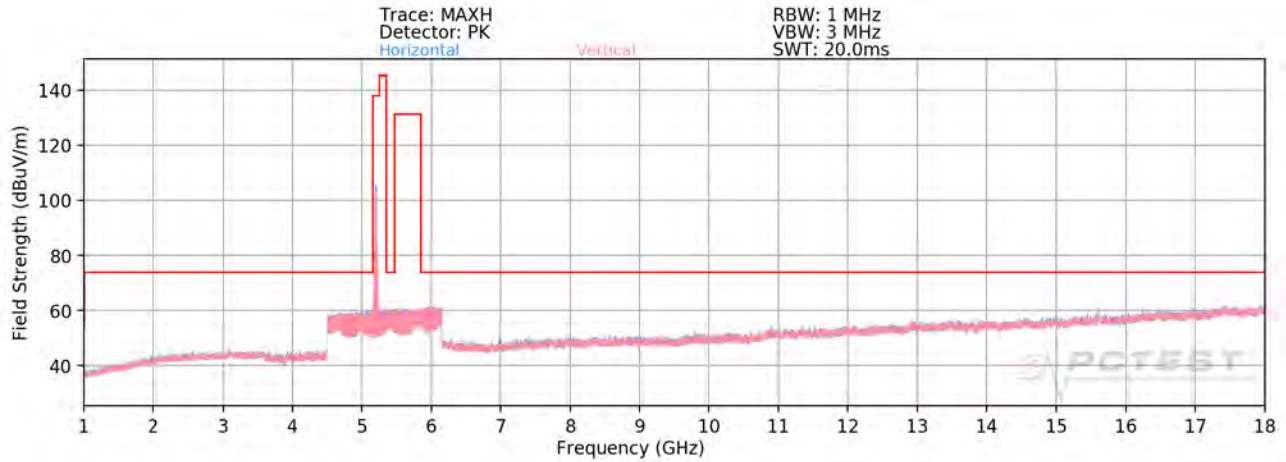
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	115	36	-74.83	16.99	0.00	49.16	53.98	-4.81
* 11650.00	Peak	V	115	36	-62.65	16.99	0.00	61.34	73.98	-12.63
17475.00	Peak	V	-	-	-70.41	25.73	0.00	62.32	68.20	-5.88
23300.00	Peak	V	-	-	-65.64	20.06	-9.54	51.88	68.20	-16.32
29125.00	Peak	V	-	-	-51.66	4.94	-9.54	50.74	68.20	-17.46

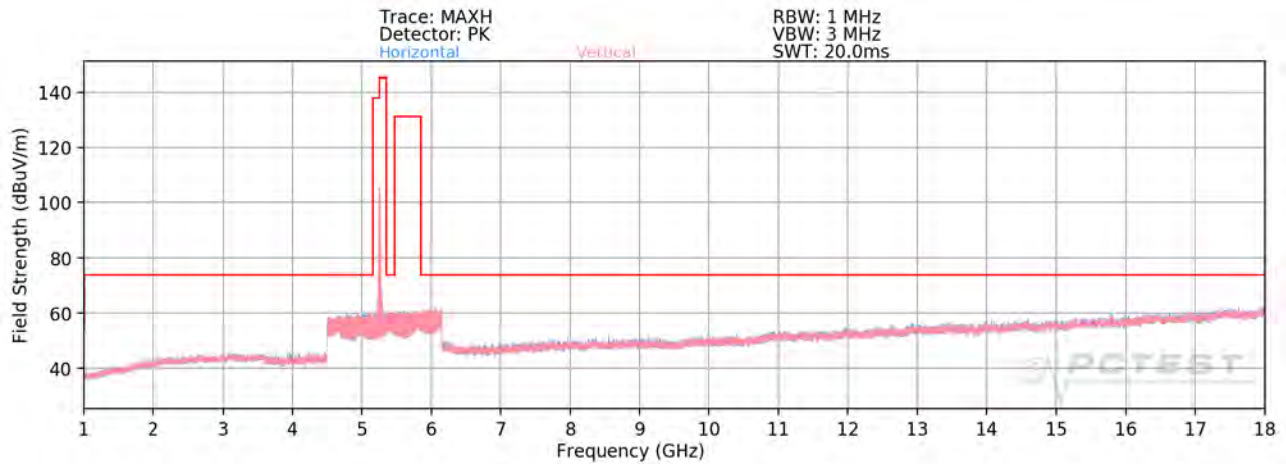
Table 7-39. Radiated Measurements SISO ANT1

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 182 of 233	

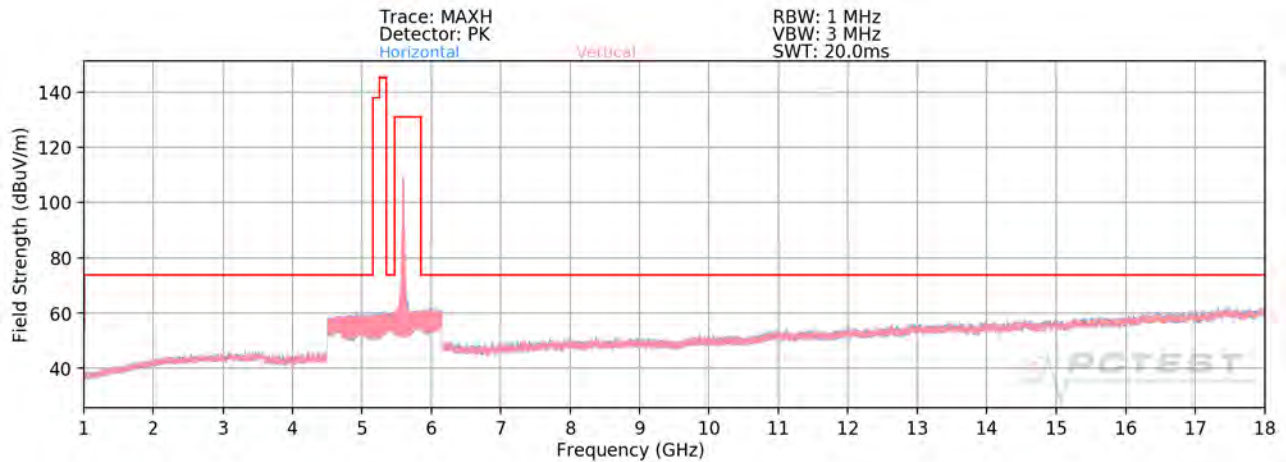
7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements



Plot 7-265. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U1 Ch. 40)

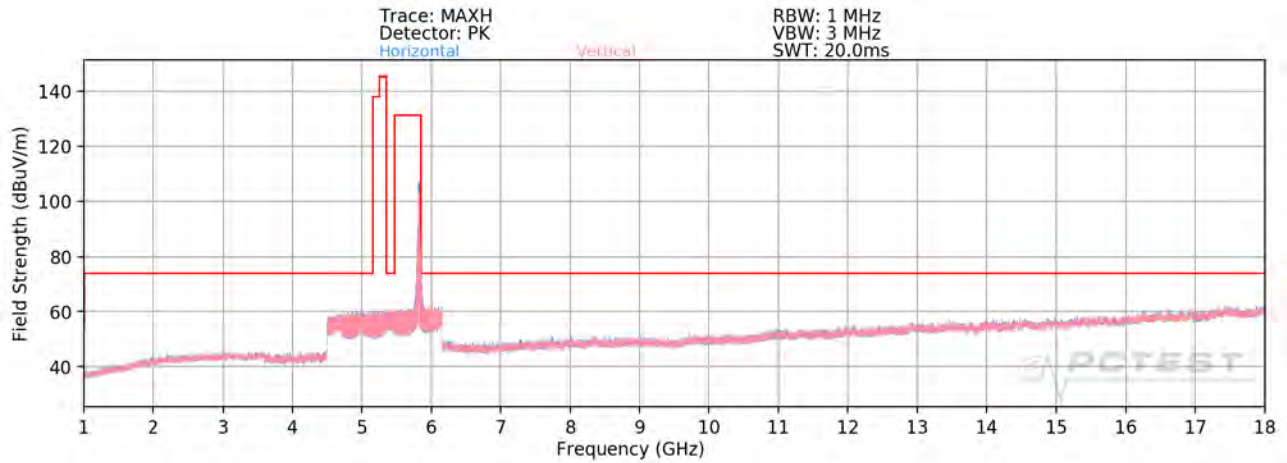


Plot 7-266. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2A Ch. 56)



Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U2C Ch. 116)

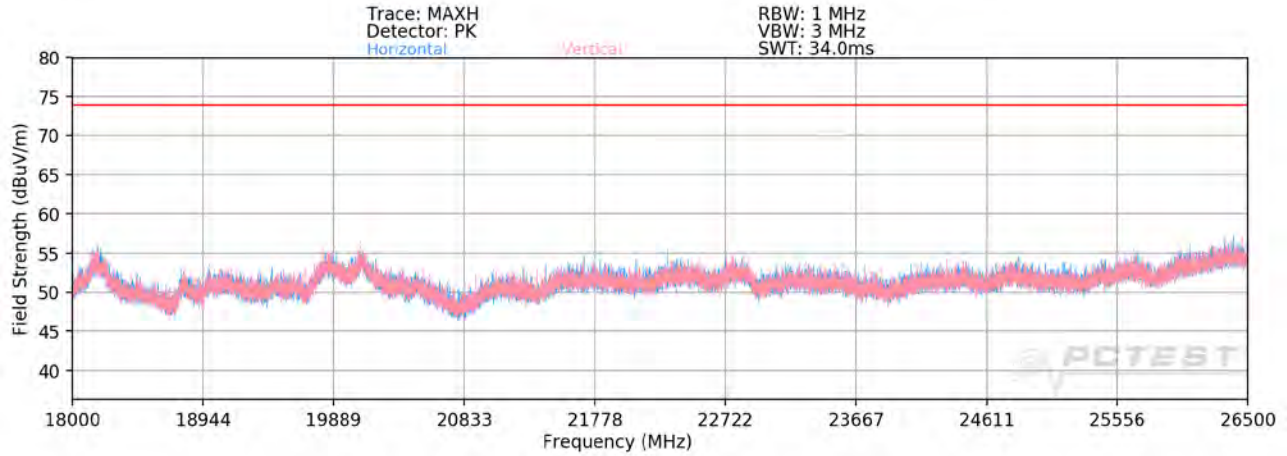
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 183 of 233



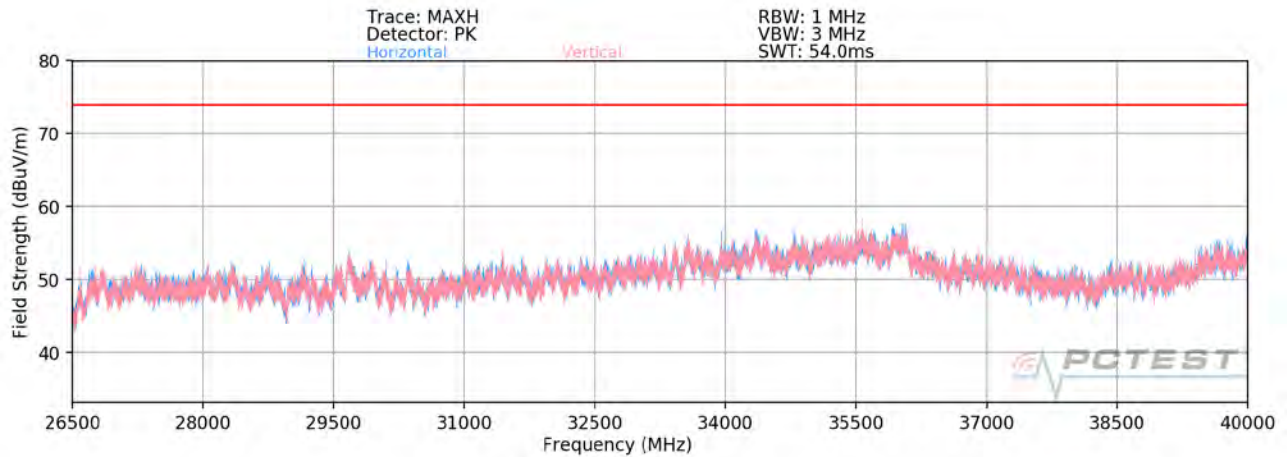
Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 184 of 233

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-269. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)



Plot 7-270. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 185 of 233

SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	165	31	-69.11	14.45	0.00	52.34	68.20	-15.86
* 15540.00	Average	H	191	14	-79.65	21.74	0.00	49.09	53.98	-4.89
* 15540.00	Peak	H	191	14	-64.09	21.74	0.00	64.65	73.98	-9.33
* 20720.00	Average	H	-	-	-71.97	17.88	-9.54	43.37	53.98	-10.61
* 20720.00	Peak	H	-	-	-62.05	17.88	-9.54	53.29	73.98	-20.69
25900.00	Peak	H	-	-	-61.16	20.40	-9.54	56.70	68.20	-11.50

Table 7-40. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	121	32	-69.17	14.60	0.00	52.43	68.20	-15.77
* 15600.00	Average	H	185	15	-79.24	21.90	0.00	49.66	53.98	-4.32
* 15600.00	Peak	H	185	15	-63.54	21.90	0.00	65.36	73.98	-8.62
* 20800.00	Average	H	-	-	-72.59	18.08	-9.54	42.95	53.98	-11.03
* 20800.00	Peak	H	-	-	-63.70	18.08	-9.54	51.84	73.98	-22.14
26000.00	Peak	H	-	-	-59.16	20.68	-9.54	58.98	68.20	-9.22

Table 7-41. Radiated Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 186 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	142	21	-67.78	14.57	0.00	53.79	68.20	-14.41
* 15720.00	Average	H	191	14	-79.75	22.17	0.00	49.42	53.98	-4.56
* 15720.00	Peak	H	191	14	-67.10	22.17	0.00	62.07	73.98	-11.91
* 20960.00	Average	H	-	-	-72.70	18.46	-9.54	43.22	53.98	-10.76
* 20960.00	Peak	H	-	-	-63.85	18.46	-9.54	52.07	73.98	-21.91
26200.00	Peak	H	-	-	-61.68	20.96	-9.54	56.74	68.20	-11.46

Table 7-42. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	213	31	-68.60	15.10	0.00	53.50	68.20	-14.70
* 15780.00	Average	V	193	14	-79.63	21.87	0.00	49.24	53.98	-4.74
* 15780.00	Peak	V	193	14	-65.05	21.87	0.00	63.82	73.98	-10.16
* 21040.00	Average	V	-	-	-72.46	18.63	-9.54	43.63	53.98	-10.34
* 21040.00	Peak	V	-	-	-63.19	18.63	-9.54	52.90	73.98	-21.07
26300.00	Peak	V	-	-	-61.44	21.23	-9.54	57.25	68.20	-10.95

Table 7-43. Radiated Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 187 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	V	225	29	-69.39	14.95	0.00	52.56	68.20	-15.64
* 15840.00	Average	V	171	43	-80.49	22.33	0.00	48.84	53.98	-5.14
* 15840.00	Peak	V	171	43	-66.92	22.33	0.00	62.41	73.98	-11.57
* 21120.00	Average	V	-	-	-70.61	18.80	-9.54	45.65	53.98	-8.32
* 21120.00	Peak	V	-	-	-61.28	18.80	-9.54	54.98	73.98	-18.99
26400.00	Peak	V	-	-	-60.52	21.49	-9.54	58.43	68.20	-9.77

Table 7-44. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 10640.00	Average	V	219	25	-80.17	15.37	0.00	42.20	53.98	-11.78
* 10640.00	Peak	V	219	25	-68.95	15.37	0.00	53.42	73.98	-20.56
* 15960.00	Average	V	180	15	-78.58	22.27	0.00	50.69	53.98	-3.29
* 15960.00	Peak	V	180	15	-66.18	22.27	0.00	63.09	73.98	-10.89
* 21280.00	Average	V	-	-	-71.27	18.76	-9.54	44.95	53.98	-9.03
* 21280.00	Peak	V	-	-	-62.35	18.76	-9.54	53.87	73.98	-20.11
26600.00	Peak	V	-	-	-61.18	6.35	-9.54	42.63	68.20	-25.57

Table 7-45. Radiated Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 188 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	149	22	-79.00	16.28	0.00	44.28	53.98	-9.70
* 11000.00	Peak	V	149	22	-67.77	16.28	0.00	55.51	73.98	-18.47
16500.00	Peak	V	182	319	-68.19	23.88	0.00	62.69	68.20	-5.51
22000.00	Peak	V	-	-	-62.16	19.37	-9.54	54.67	68.20	-13.53
27500.00	Peak	V	150	194	-39.15	5.07	-9.54	63.38	68.20	-4.82

Table 7-46. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	Average	V	400	359	-78.43	16.06	0.00	44.63	53.98	-9.35
* 11160.00	Peak	V	400	359	-66.43	16.06	0.00	56.63	73.98	-17.35
16740.00	Peak	V	186	321	-68.69	23.65	0.00	61.96	68.20	-6.24
* 22320.00	Average	V	-	-	-70.36	19.81	-9.54	46.91	53.98	-7.07
* 22320.00	Peak	V	-	-	-61.53	19.81	-9.54	55.74	73.98	-18.24
27900.00	Peak	V	150	234	-42.64	5.83	-9.54	60.65	68.20	-7.55

Table 7-47. Radiated Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 189 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	V	400	15	-80.25	17.03	0.00	43.78	53.98	-10.20
* 11440.00	Peak	V	400	15	-69.31	17.03	0.00	54.72	73.98	-19.26
17160.00	Peak	V	-	-	-68.81	23.47	0.00	61.66	68.20	-6.54
* 22880.00	Average	V	-	-	-70.18	19.64	-9.54	46.92	53.98	-7.06
* 22880.00	Peak	V	-	-	-61.38	19.64	-9.54	55.72	73.98	-18.26
28600.00	Peak	V	150	349	-49.88	5.12	-9.54	52.70	68.20	-15.50

Table 7-48. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	V	300	356	-79.87	16.80	0.00	43.93	53.98	-10.05
* 11490.00	Peak	V	300	356	-68.05	16.80	0.00	55.75	73.98	-18.23
17235.00	Peak	V	-	-	-69.90	24.70	0.00	61.80	68.20	-6.40
* 22980.00	Average	V	-	-	-71.47	19.39	-9.54	45.38	53.98	-8.60
* 22980.00	Peak	V	-	-	-62.03	19.39	-9.54	54.82	73.98	-19.16
28725.00	Peak	V	150	227	-40.59	6.24	-9.54	63.11	68.20	-5.09

Table 7-49. Radiated Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 190 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	211	321	-79.74	16.48	0.00	43.74	53.98	-10.24
* 11570.00	Peak	V	211	321	-68.16	16.48	0.00	55.32	73.98	-18.66
17355.00	Peak	V	-	-	-69.97	25.37	0.00	62.40	68.20	-5.80
23140.00	Peak	V	-	-	-62.21	19.78	-9.54	55.03	68.20	-13.17
28925.00	Peak	V	150	233	-41.68	5.18	-9.54	60.96	68.20	-7.24

Table 7-50. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	209	82	-80.49	16.99	0.00	43.50	53.98	-10.47
* 11650.00	Peak	V	209	82	-69.00	16.99	0.00	54.99	73.98	-18.98
17475.00	Peak	V	-	-	-70.41	25.73	0.00	62.32	68.20	-5.88
23300.00	Peak	V	-	-	-62.41	20.06	-9.54	55.11	68.20	-13.09
29125.00	Peak	V	150	237	-40.13	4.94	-9.54	62.27	68.20	-5.93

Table 7-51. Radiated Measurements SISO ANT2

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 191 of 233	

7.6.3 MIMO Radiated Spurious Emission Measurements

MIMO Radiated Spurious Emission Measurements

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

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	V	211	330	-65.72	14.45	0.00	55.73	68.20	-12.47
* 15540.00	Average	V	165	315	-82.61	21.74	0.00	46.13	53.98	-7.85
* 15540.00	Peak	V	165	315	-64.82	21.74	0.00	63.92	73.98	-10.06
* 20720.00	Average	V	-	-	-72.08	17.88	-9.54	43.26	53.98	-10.72
* 20720.00	Peak	V	-	-	-63.31	17.88	-9.54	52.03	73.98	-21.95
25900.00	Peak	V	-	-	-61.44	20.40	-9.54	56.42	68.20	-11.78

Table 7-52. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	V	202	333	-66.04	14.60	0.00	55.56	68.20	-12.64
* 15600.00	Average	V	177	324	-81.47	21.90	0.00	47.43	53.98	-6.55
* 15600.00	Peak	V	177	324	-63.65	21.90	0.00	65.25	73.98	-8.73
* 20800.00	Average	V	-	-	-72.60	18.08	-9.54	42.94	53.98	-11.04
* 20800.00	Peak	V	-	-	-62.63	18.08	-9.54	52.91	73.98	-21.07
26000.00	Peak	V	150	173	-58.91	20.68	-9.54	59.22	68.20	-8.98

Table 7-53. Radiated Measurements MIMO

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 192 of 233

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5240MHz
Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	V	199	332	-64.27	14.57	0.00	57.30	68.20	-10.90
* 15720.00	Average	V	170	323	-79.99	22.17	0.00	49.18	53.98	-4.80
* 15720.00	Peak	V	170	323	-64.30	22.17	0.00	64.87	73.98	-9.11
* 20960.00	Average	V	-	-	-72.88	18.46	-9.54	43.04	53.98	-10.94
* 20960.00	Peak	V	-	-	-64.72	18.46	-9.54	51.20	73.98	-22.78
26200.00	Peak	V	150	214	-60.01	20.96	-9.54	58.41	68.20	-9.79

Table 7-54. Radiated Measurements MIMO

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5260MHz
Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	V	202	336	-63.66	15.10	0.00	58.44	68.20	-9.76
* 15780.00	Average	V	184	322	-81.35	21.87	0.00	47.52	53.98	-6.46
* 15780.00	Peak	V	184	322	-64.23	21.87	0.00	64.64	73.98	-9.34
* 21040.00	Average	V	-	-	-71.04	18.64	-9.54	45.05	53.98	-8.93
* 21040.00	Peak	V	-	-	-62.57	18.64	-9.54	53.52	73.98	-20.46
26300.00	Peak	V	150	153	-61.55	21.23	-9.54	57.14	68.20	-11.06

Table 7-55. Radiated Measurements MIMO

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 193 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	V	203	332	-64.46	14.95	0.00	57.49	68.20	-10.71
* 15840.00	Average	V	192	327	-80.19	22.33	0.00	49.14	53.98	-4.84
* 15840.00	Peak	V	192	327	-65.34	22.33	0.00	63.99	73.98	-9.99
* 21120.00	Average	V	-	-	-71.25	18.80	-9.54	45.01	53.98	-8.97
* 21120.00	Peak	V	-	-	-62.02	18.80	-9.54	54.24	73.98	-19.74
26400.00	Peak	V	150	156	-59.16	21.49	-9.54	59.78	68.20	-8.42

Table 7-56. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	V	200	326	-76.47	15.37	0.00	45.90	53.98	-8.08
* 10640.00	Peak	V	200	326	-65.28	15.37	0.00	57.09	73.98	-16.89
* 15960.00	Average	V	194	330	-80.11	22.27	0.00	49.16	53.98	-4.82
* 15960.00	Peak	V	194	330	-66.53	22.27	0.00	62.74	73.98	-11.24
* 21280.00	Average	V	-	-	-71.37	18.76	-9.54	44.85	53.98	-9.13
* 21280.00	Peak	V	-	-	-63.32	18.76	-9.54	52.90	73.98	-21.08

Table 7-57. Radiated Measurements MIMO

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 194 of 233	

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	V	201	341	-73.89	16.28	0.00	49.39	53.98	-4.59
* 11000.00	Peak	V	201	341	-63.10	16.28	0.00	60.18	73.98	-13.80
16500.00	Peak	V	200	323	-67.77	23.88	0.00	63.11	68.20	-5.09
22000.00	Peak	V	-	-	-62.43	19.37	-9.54	54.40	68.20	-13.80
27500.00	Peak	V	150	196	-41.26	5.07	-9.54	61.27	68.20	-6.93

Table 7-58. Radiated Measurements MIMO

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz
Channel: 116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	V	189	344	-75.38	16.06	0.00	47.68	53.98	-6.30
* 11200.00	Peak	V	189	344	-63.19	16.06	0.00	59.87	73.98	-14.11
16800.00	Peak	V	191	323	-67.89	23.65	0.00	62.76	68.20	-5.44
* 22400.00	Average	V	-	-	-71.05	19.81	-9.54	46.22	53.98	-7.76
* 22400.00	Peak	V	-	-	-61.95	19.81	-9.54	55.32	73.98	-18.66
28000.00	Peak	V	150	225	-43.76	5.83	-9.54	59.52	68.20	-8.68

Table 7-59. Radiated Measurements MIMO

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 195 of 233

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	V	179	357	-74.33	17.03	0.00	49.70	53.98	-4.28
* 11440.00	Peak	V	179	357	-62.50	17.03	0.00	61.53	73.98	-12.45
17160.00	Peak	V	188	319	-69.08	23.47	0.00	61.39	68.20	-6.81
* 22880.00	Average	V	-	-	-69.36	19.64	-9.54	47.74	53.98	-6.24
* 22880.00	Peak	V	-	-	-60.68	19.64	-9.54	56.42	73.98	-17.56
28600.00	Peak	V	150	119	-50.61	5.12	-9.54	51.96	68.20	-16.24

Table 7-60. Radiated Measurements MIMO

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	V	101	362	-78.01	16.80	0.00	45.79	53.98	-8.19
* 11490.00	Peak	V	101	362	-66.40	16.80	0.00	57.40	73.98	-16.58
17235.00	Peak	V	172	322	-69.70	24.70	0.00	62.00	68.20	-6.20
* 22980.00	Average	V	-	-	-71.81	19.39	-9.54	45.04	53.98	-8.94
* 22980.00	Peak	V	-	-	-62.82	19.39	-9.54	54.03	73.98	-19.95
28725.00	Peak	V	150	226	-43.11	6.24	-9.54	60.59	69.20	-8.61

Table 7-61. Radiated Measurements MIMO

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 196 of 233	

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	V	100	357	-76.21	16.48	0.00	47.27	53.98	-6.71
* 11570.00	Peak	V	100	357	-65.01	16.48	0.00	58.47	73.98	-15.51
17355.00	Peak	V	-	-	-71.06	25.37	0.00	61.31	68.20	-6.89
23140.00	Peak	V	-	-	-62.93	19.78	-9.54	54.30	68.20	-13.90
28925.00	Peak	V	150	232	-44.75	5.18	-9.54	57.89	68.20	-10.31

Table 7-62. Radiated Measurements MIMO

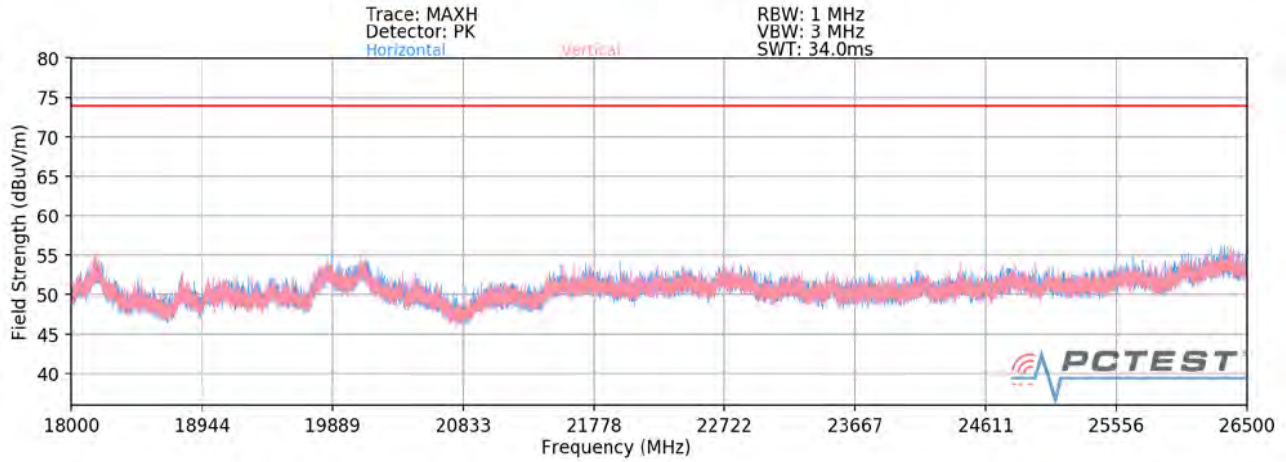
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	100	352	-76.31	16.99	0.00	47.68	53.98	-6.29
* 11650.00	Peak	V	100	352	-64.25	16.99	0.00	59.74	73.98	-14.23
17475.00	Peak	V	-	-	-70.22	25.73	0.00	62.51	68.20	-5.69
23300.00	Peak	V	-	-	-62.30	20.06	-9.54	55.22	68.20	-12.98
29125.00	Peak	V	150	233	-42.68	4.94	-9.54	59.72	68.20	-8.48

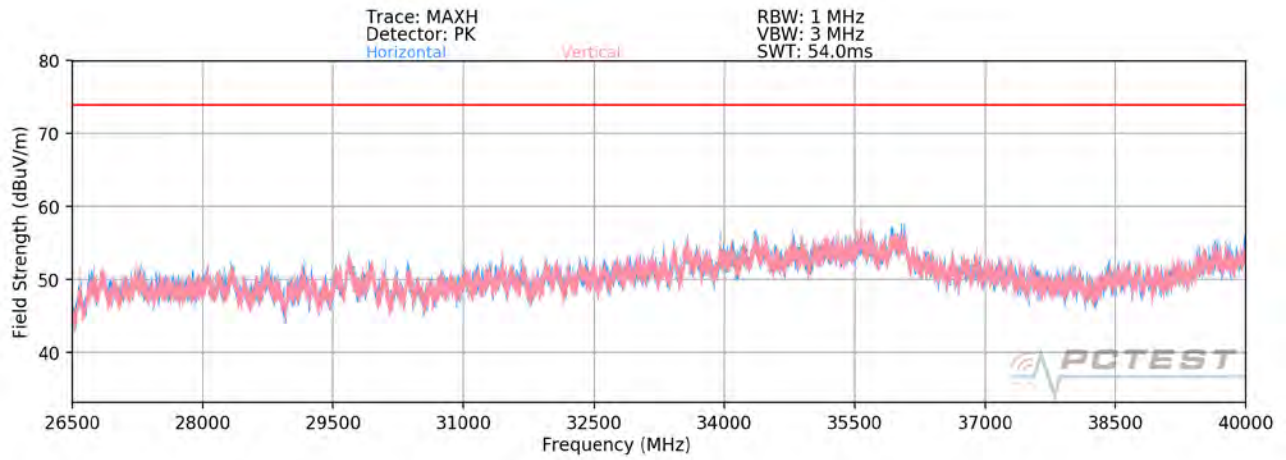
Table 7-63. Radiated Measurements MIMO

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 197 of 233	

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-271. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO (802.11a)



Plot 7-272. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11a)

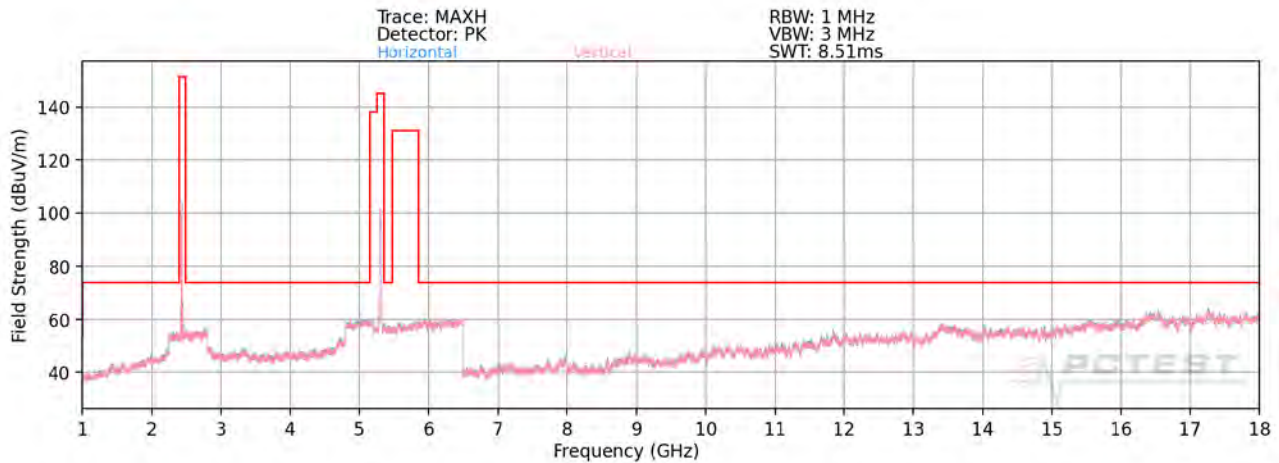
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 198 of 233	

7.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements

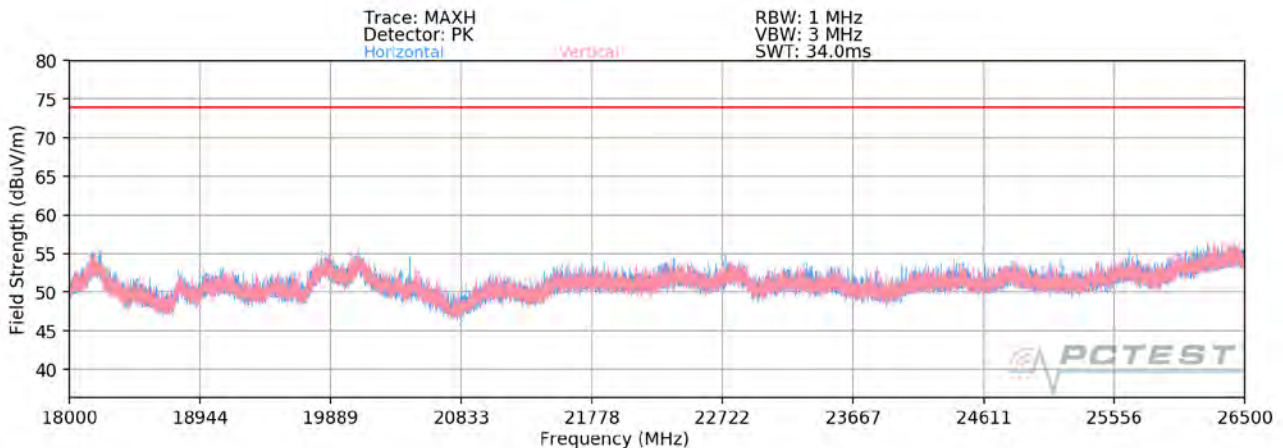
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	11	56
Operating Frequency (MHz)	2462	5280
Data Rate (Mbps)	1	MCS0
Mode	802.11b	802.11n

Table 7-64. Simultaneous Transmission Config-1

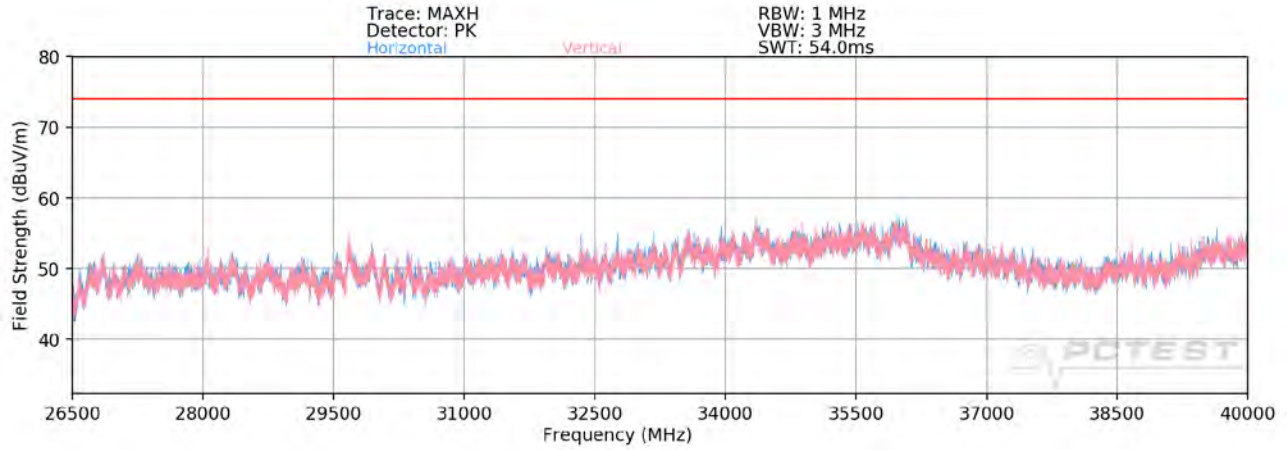


Plot 7-273. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-274. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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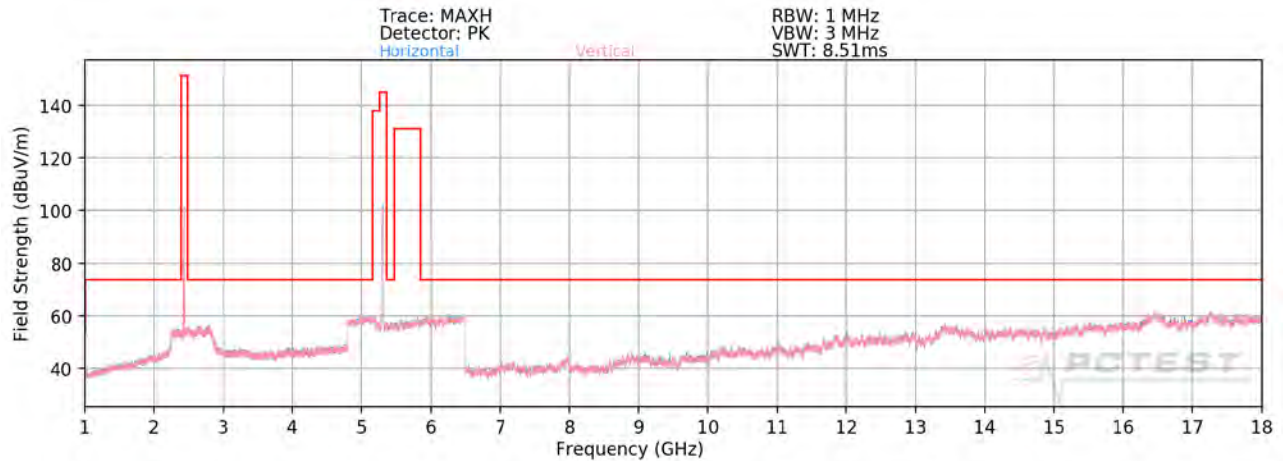


Plot 7-275. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

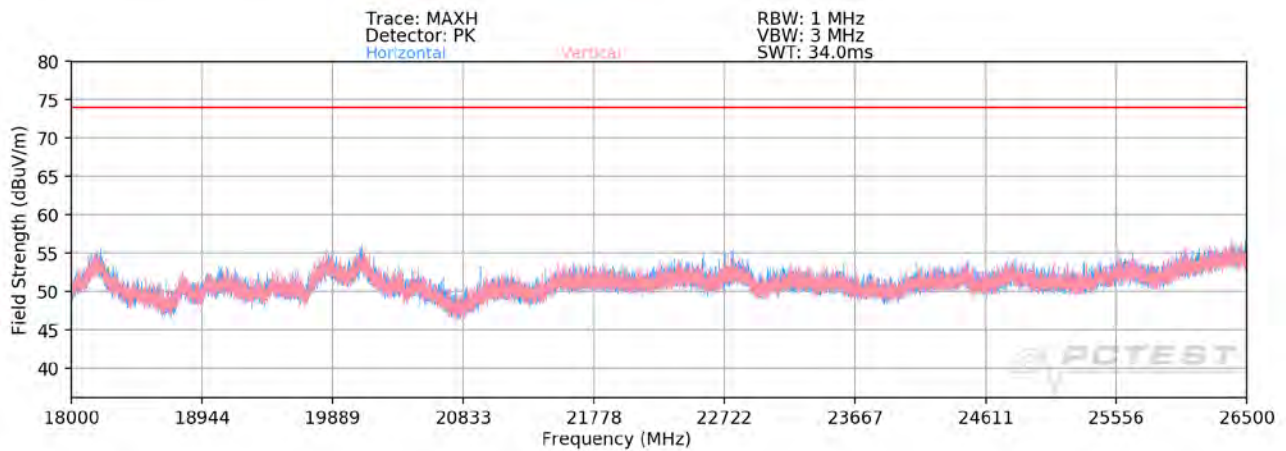
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 200 of 233	

Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	11	100
Operating Frequency (MHz)	2462	5500
Data Rate (Mbps)	1	MSC0
Mode	802.11b	802.11n

Table 7-65. Simultaneous Transmission Config-2

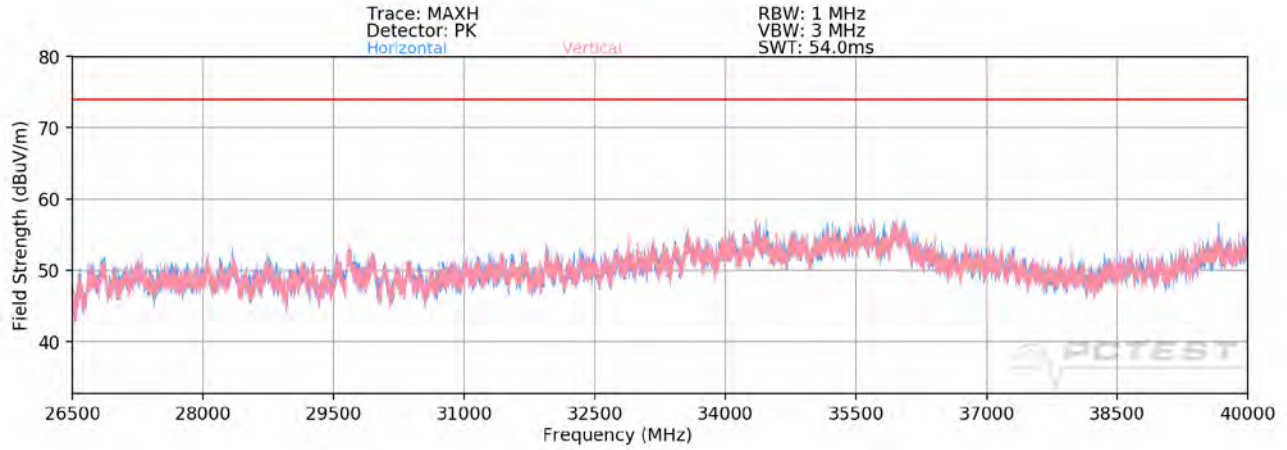


Plot 7-276. Radiated Spurious Plot above 1GHz (5GHz – 2.4 GHz)



Plot 7-277. Radiated Spurious Plot 18GHz – 26.5GHz (5GHz – 2.4 GHz)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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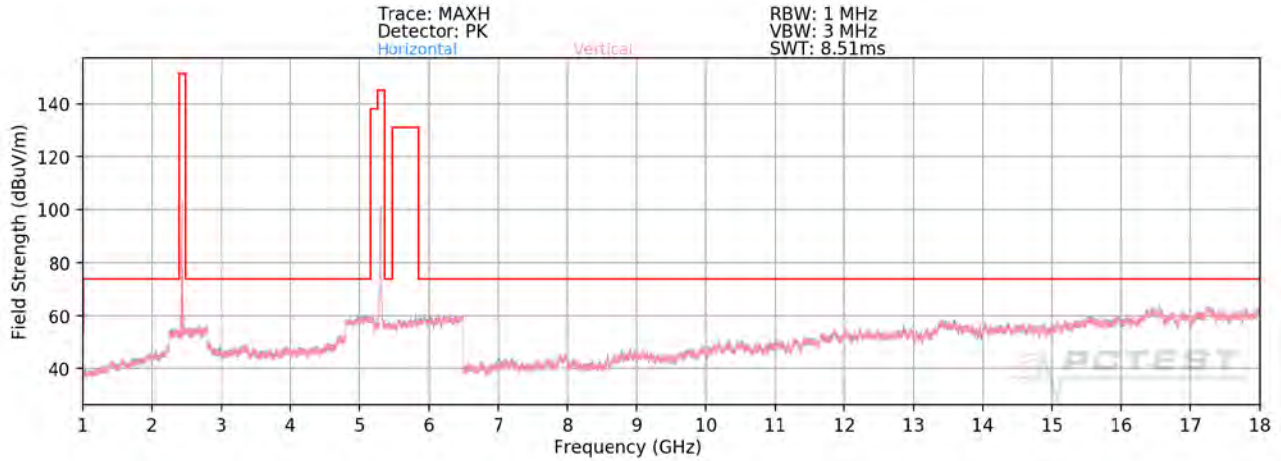


Plot 7-278. Radiated Spurious Plot above 26.5GHz (5GHz – 2.4 GHz)

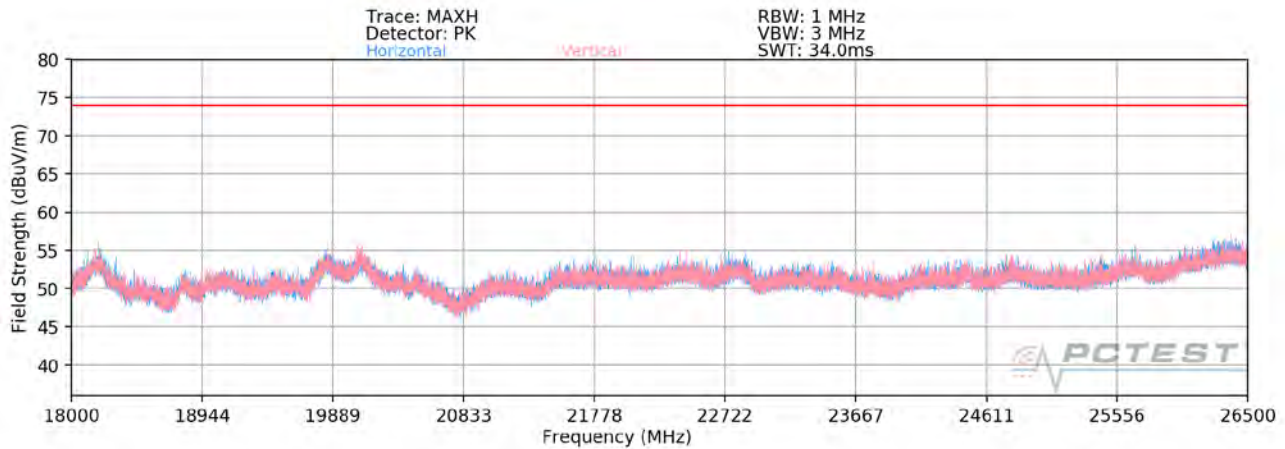
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 202 of 233	

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	6	5785
Operating Frequency (MHz)	2437	5785
Data Rate (Mbps)	MSC8	MSC8
Mode	802.11n	802.11n

Table 7-66. Dual Band Simultaneous Transmission

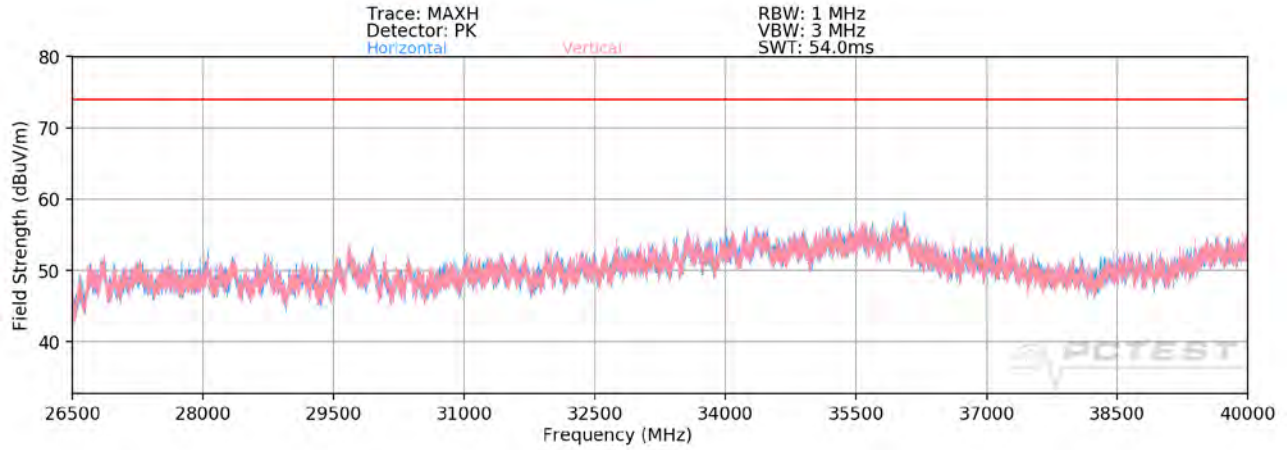


Plot 7-279. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)



Plot 7-280. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 203 of 233

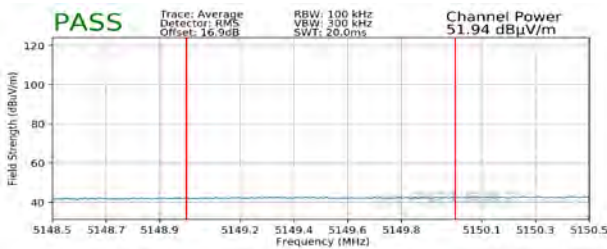


Plot 7-281. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)

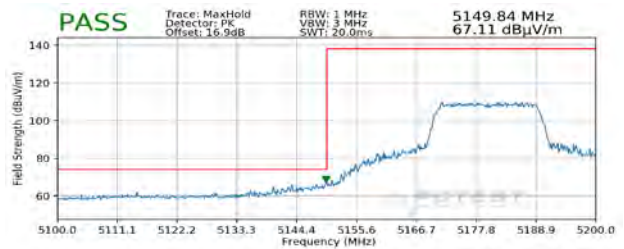
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 204 of 233

7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

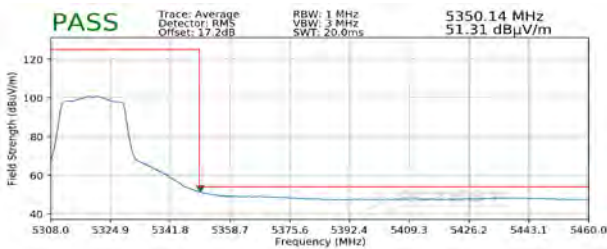


Plot 7-282. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

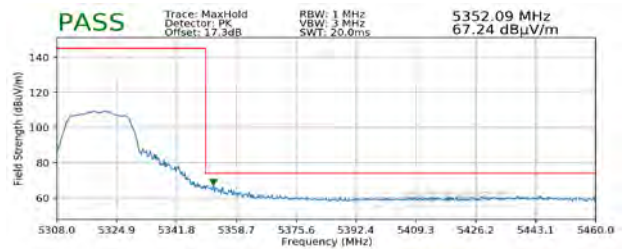


Plot 7-283. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-284. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



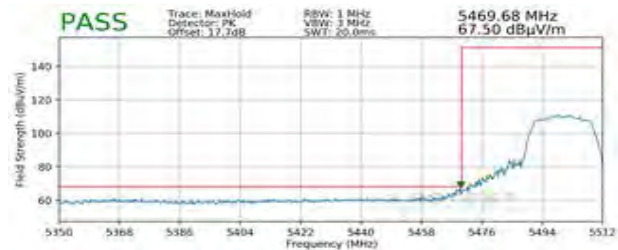
Plot 7-285. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 205 of 233

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

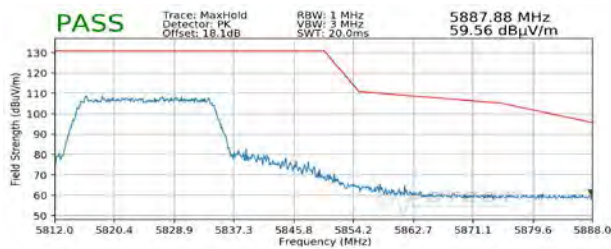


Plot 7-286. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-287. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

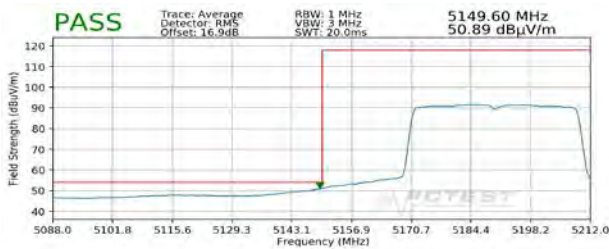


Plot 7-288. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

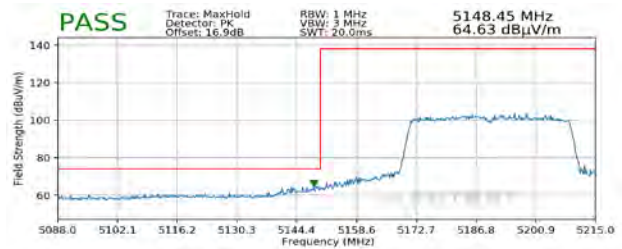
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 206 of 233

7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

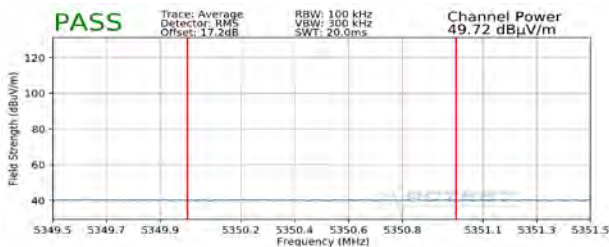


Plot 7-289. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

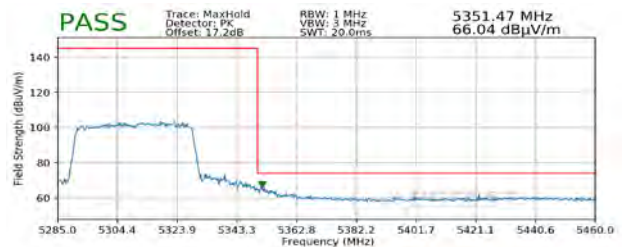


Plot 7-290. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



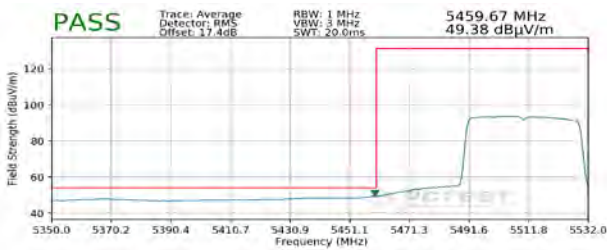
Plot 7-291. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



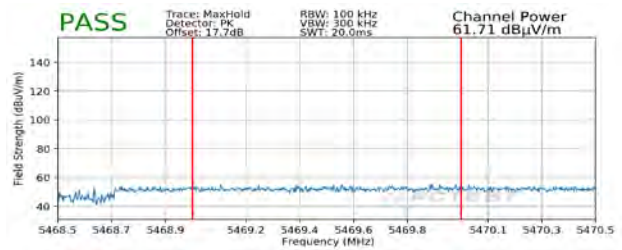
Plot 7-292. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 207 of 233

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

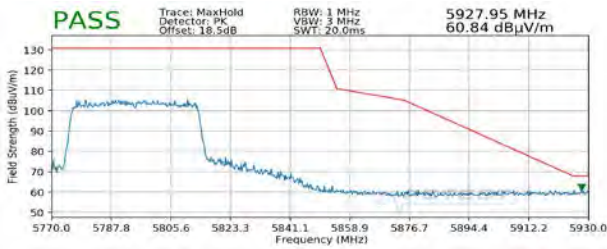


Plot 7-293. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-294. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

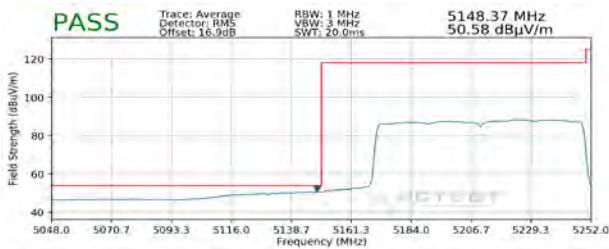


Plot 7-295. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

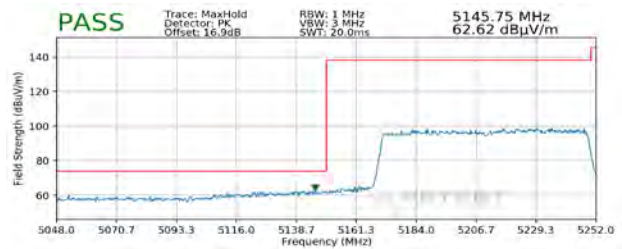
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 208 of 233

7.6.7 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

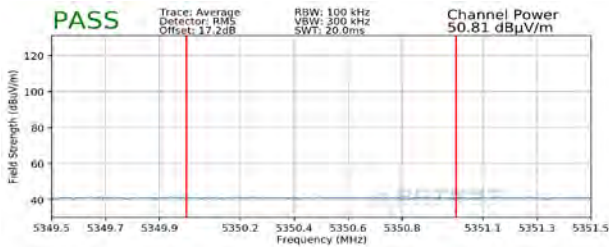


Plot 7-296. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

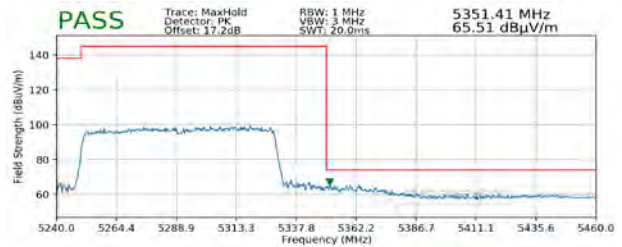


Plot 7-297. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



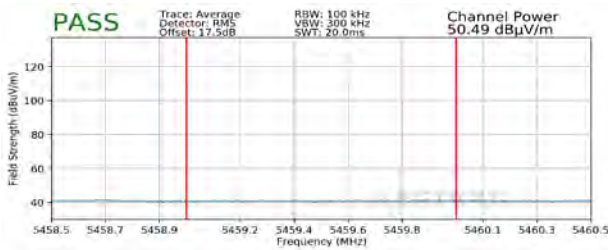
Plot 7-298. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



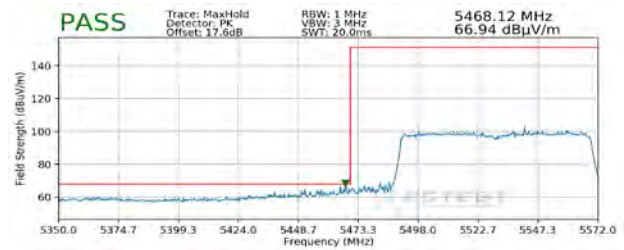
Plot 7-299. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 209 of 233

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

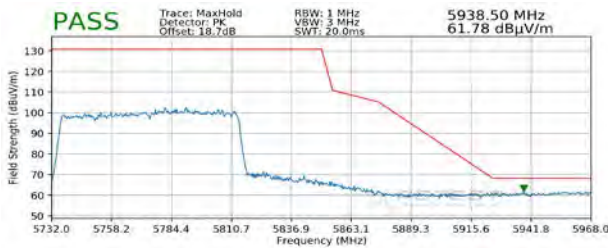


Plot 7-300. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)



Plot 7-301. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

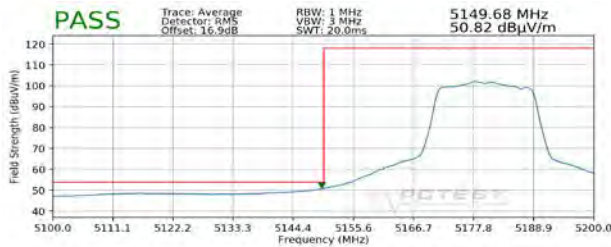


Plot 7-302. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)

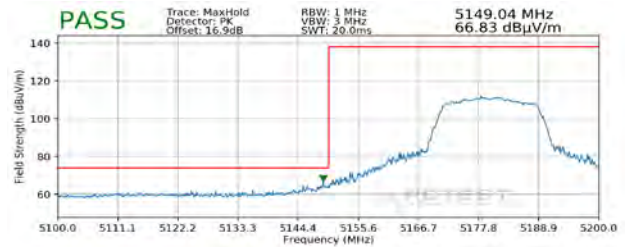
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 210 of 233

7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

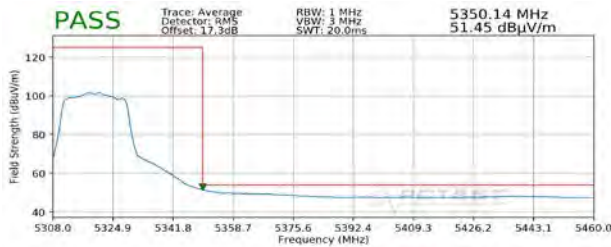


Plot 7-303. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

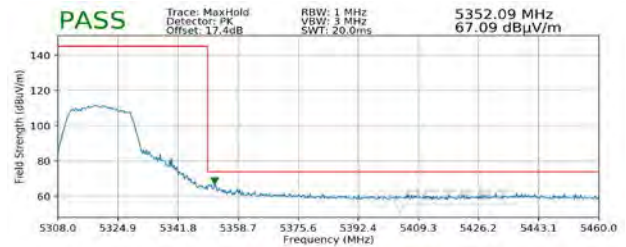


Plot 7-304. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



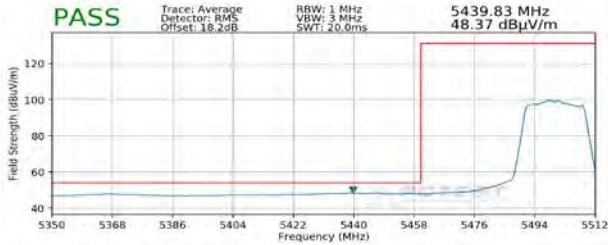
Plot 7-305. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



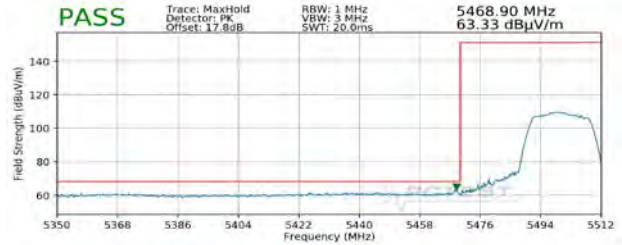
Plot 7-306. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 211 of 233

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

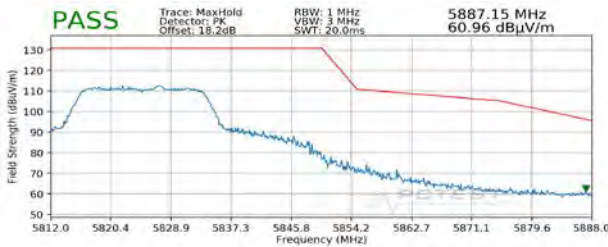


Plot 7-307. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-308. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

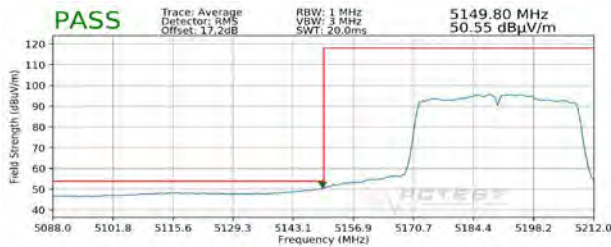


Plot 7-309. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

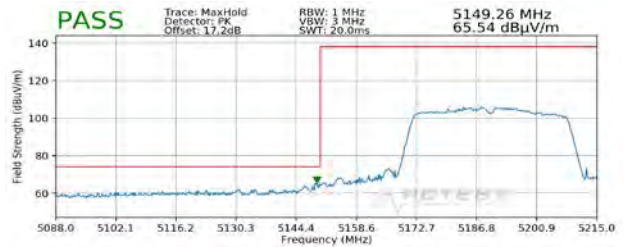
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset	Page 212 of 233	

7.6.9 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

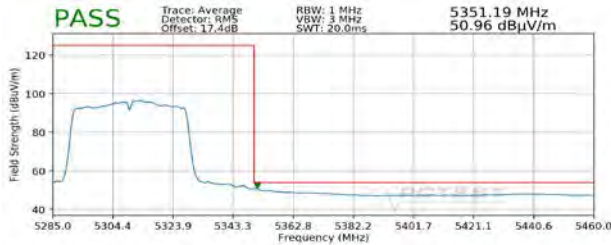


Plot 7-310. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

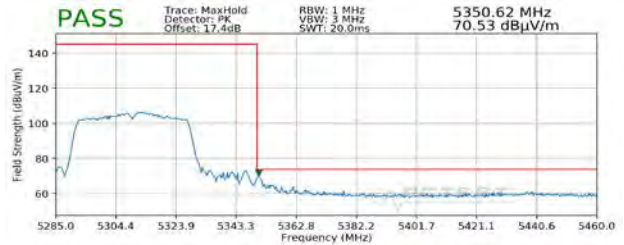


Plot 7-311. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



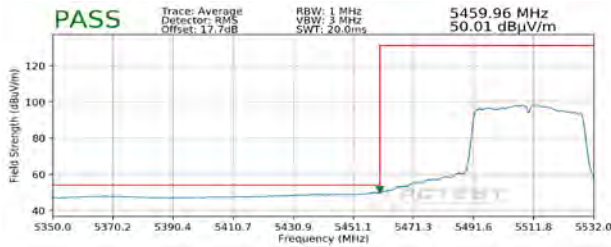
Plot 7-312. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



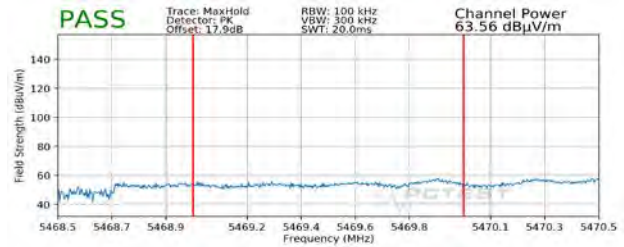
Plot 7-313. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 213 of 233

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

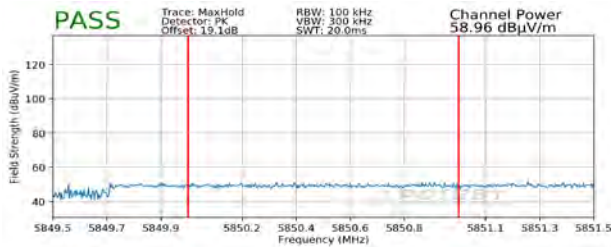


Plot 7-314. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-315. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11n
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

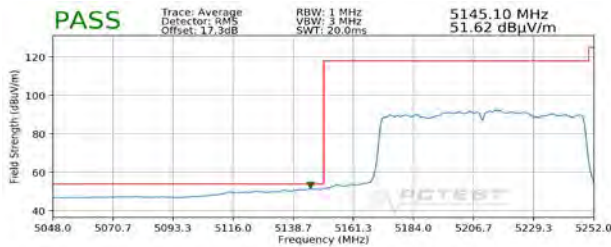


Plot 7-316. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

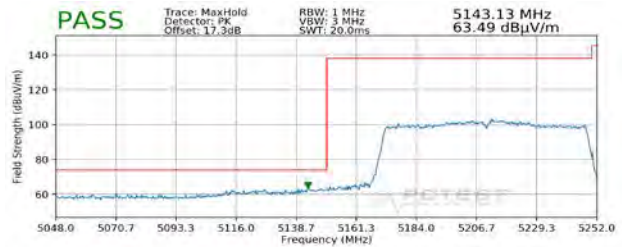
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 214 of 233

7.6.10 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

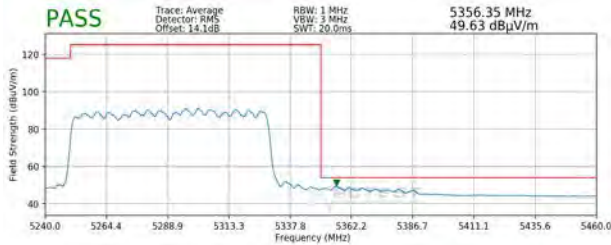


Plot 7-317. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)

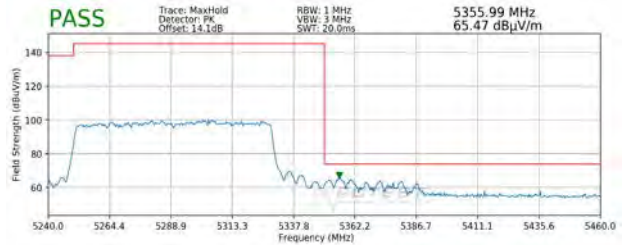


Plot 7-318. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



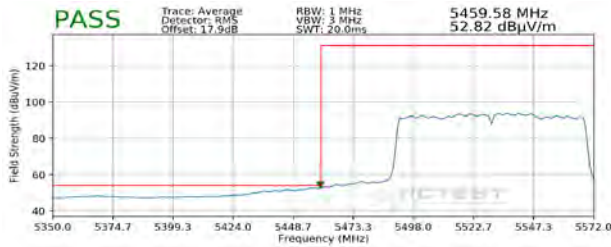
Plot 7-319. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)



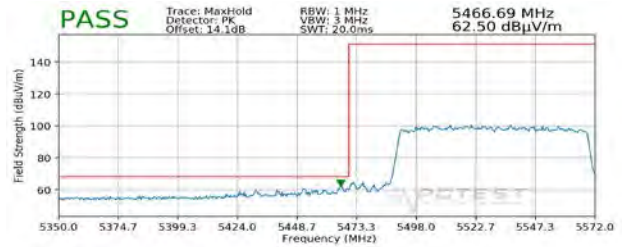
Plot 7-320. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 215 of 233

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

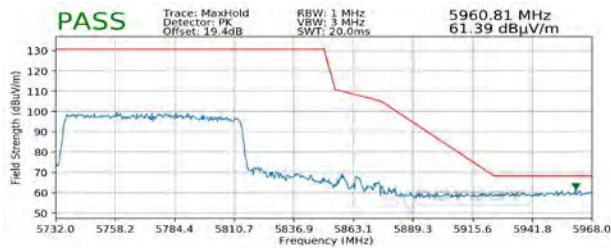


Plot 7-321. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)



Plot 7-322. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155

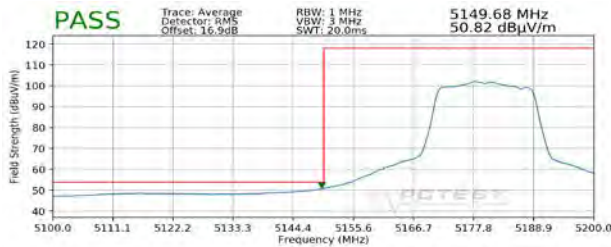


Plot 7-323. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)

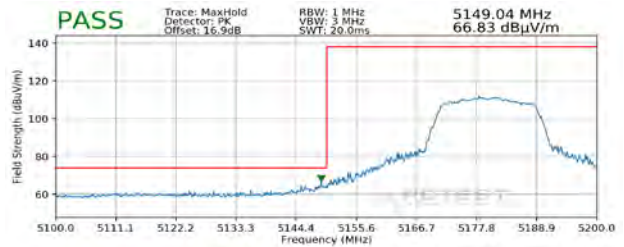
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 216 of 233

7.6.11 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

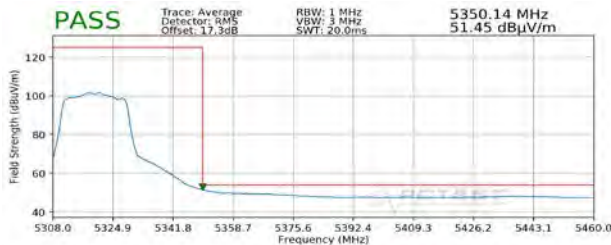


Plot 7-324. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

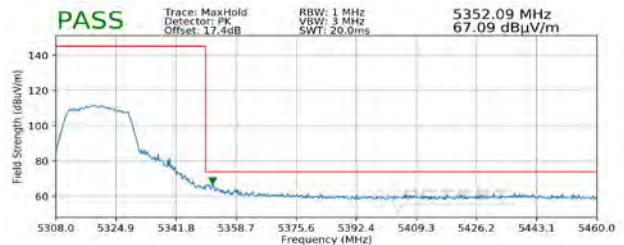


Plot 7-325. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



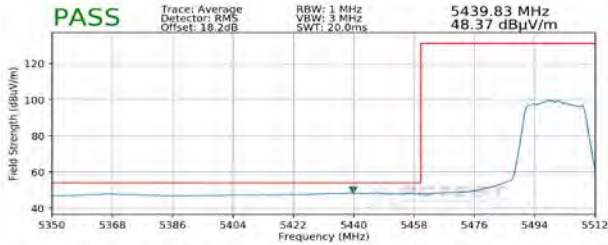
Plot 7-326. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



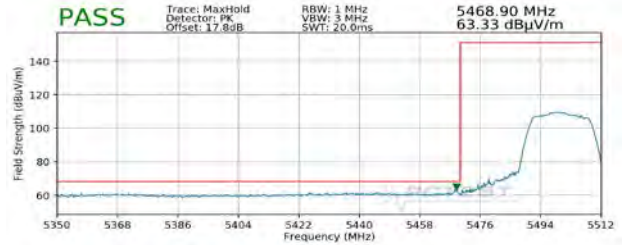
Plot 7-327. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2006240100-06.A3L	Test Dates: 07/21 - 08/31/2020	EUT Type: Portable Handset		Page 217 of 233

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

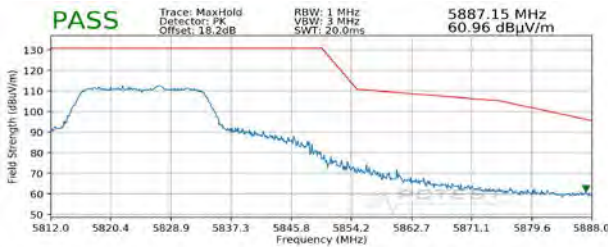


Plot 7-328. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-329. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

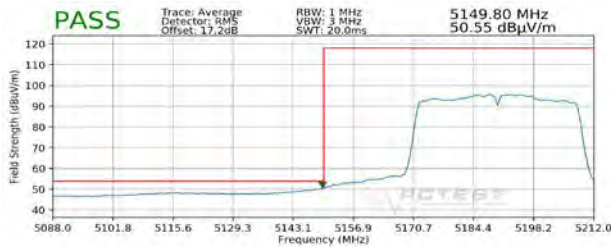


Plot 7-330. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

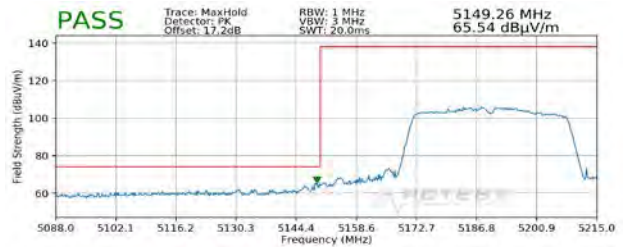
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6.12 MIMO Radiated Band Edge Measurements (40MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

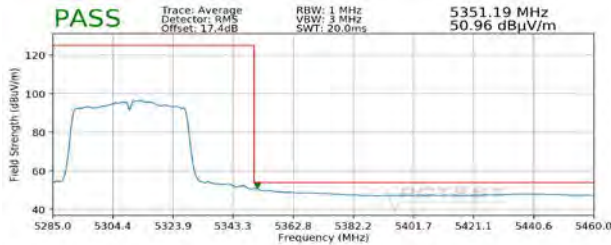


Plot 7-331. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

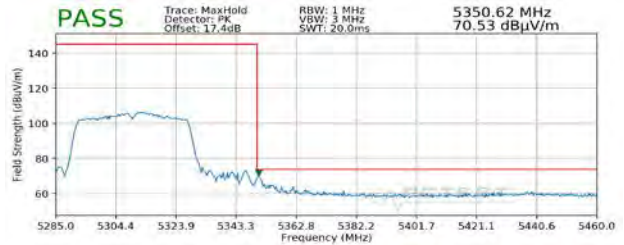


Plot 7-332. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



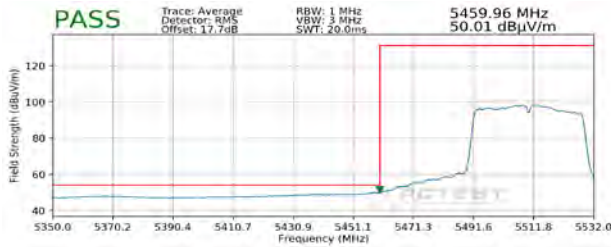
Plot 7-333. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



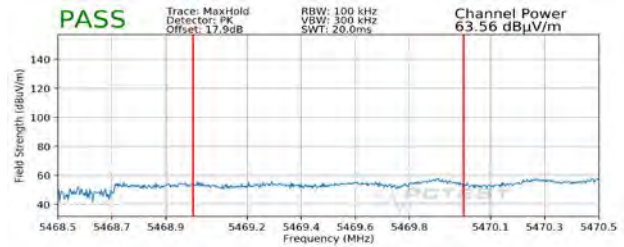
Plot 7-334. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

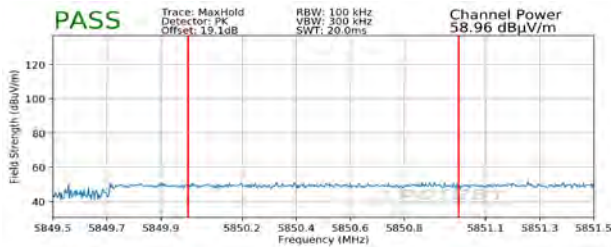


Plot 7-335. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-336. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159

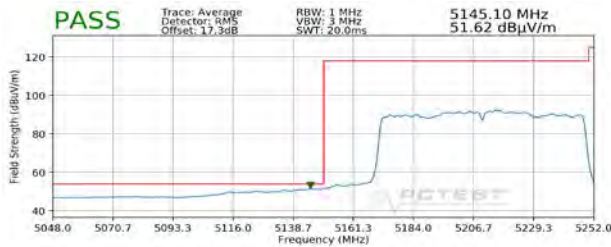


Plot 7-337. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

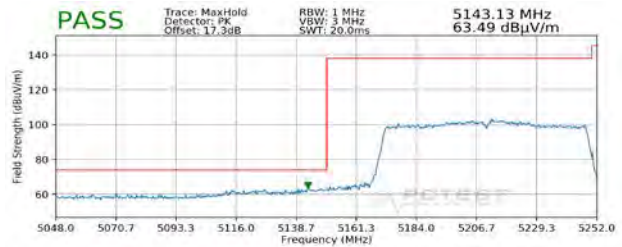
FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6.13 MIMO Radiated Band Edge Measurements (80MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

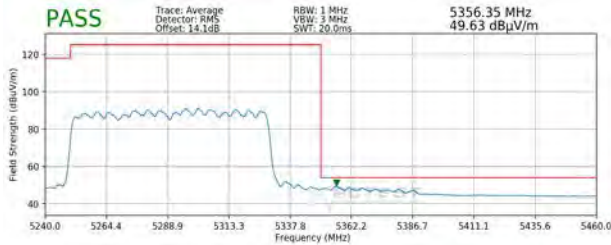


Plot 7-338. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

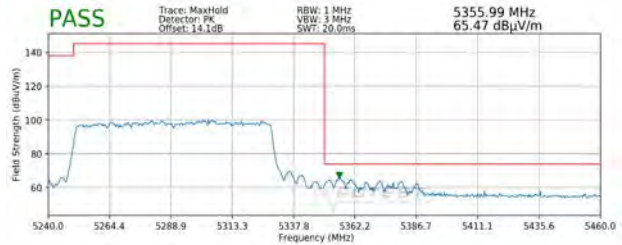


Plot 7-339. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



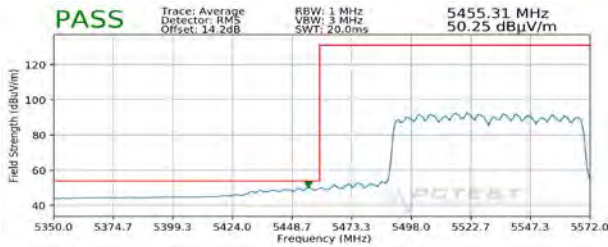
Plot 7-340. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



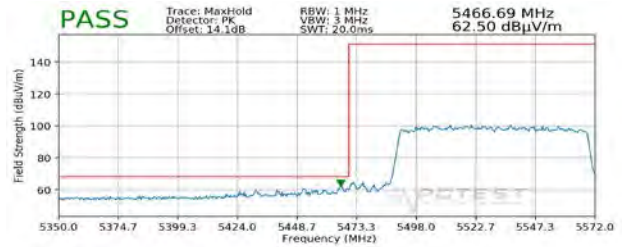
Plot 7-341. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

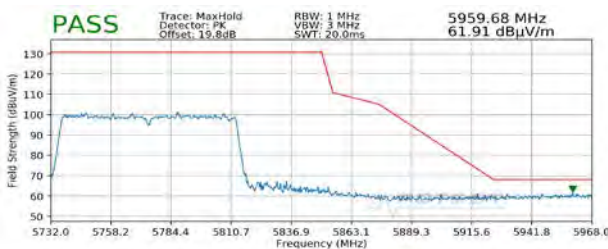


Plot 7-342. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-343. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode: 802.11ac
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



Plot 7-344. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

FCC ID: A3LSMN986JPN		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§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 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-70 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [$\mu\text{V/m}$]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-67. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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Test Setup

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

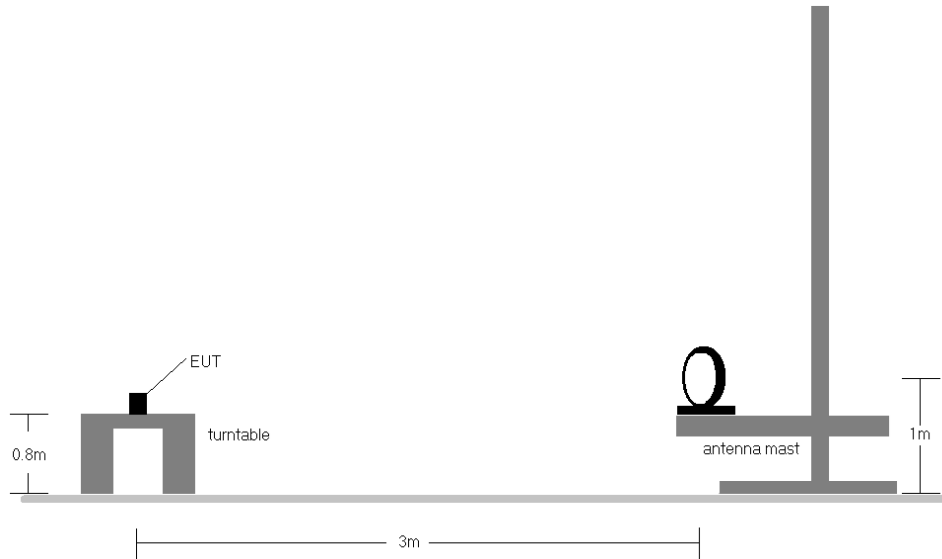


Figure 7-6. Radiated Test Setup < 30MHz

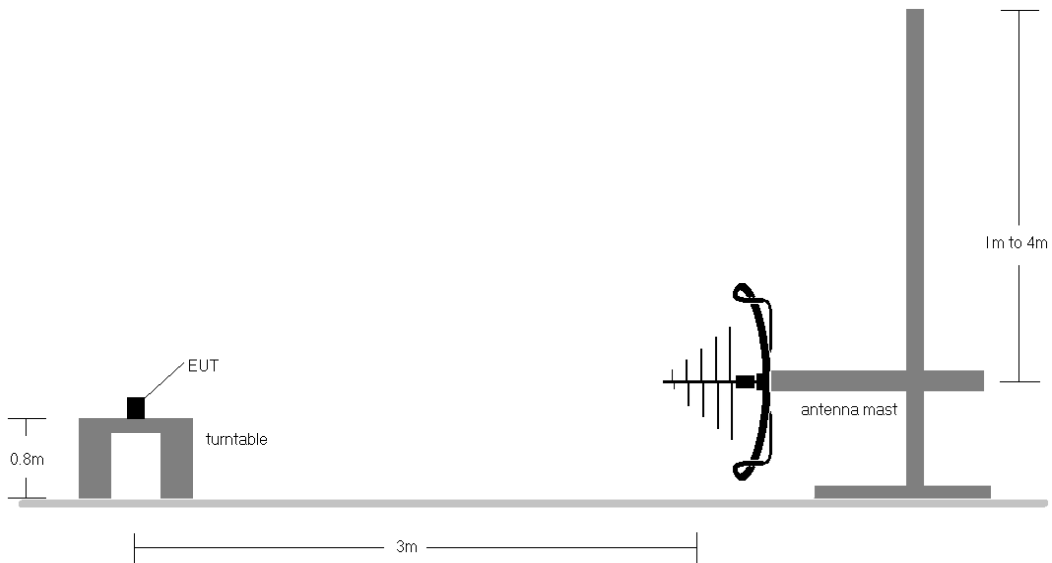


Figure 7-7. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-70.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

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Radiated Spurious Emissions Measurements (Below 1GHz)
§15.209; RSS-Gen [8.9]

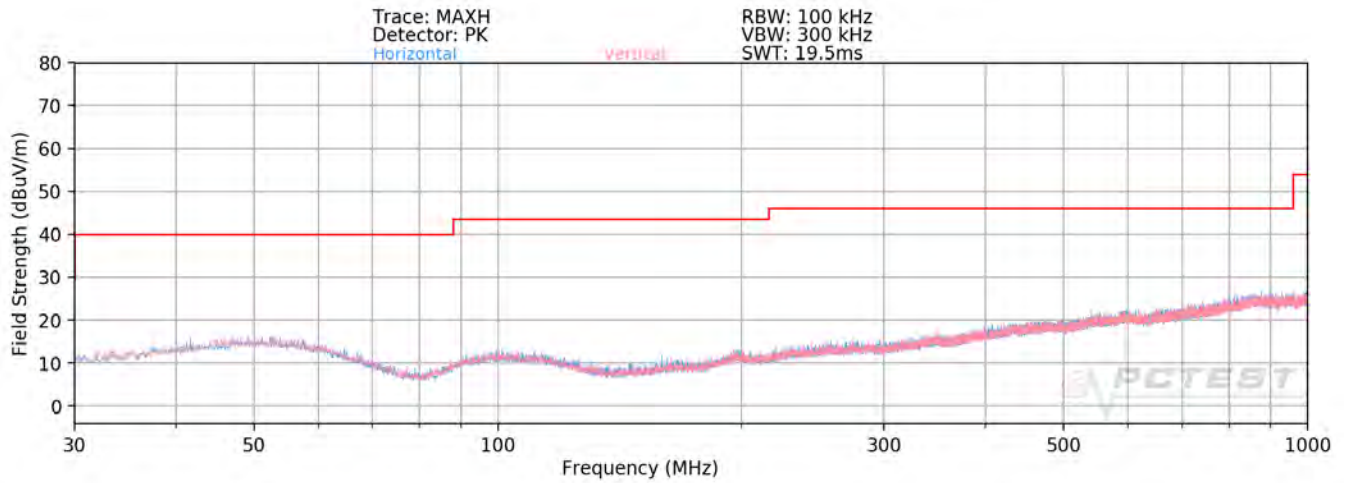


Table 7-68. Radiated Spurious Emissions below 1GHz

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7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

Table 7-69. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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