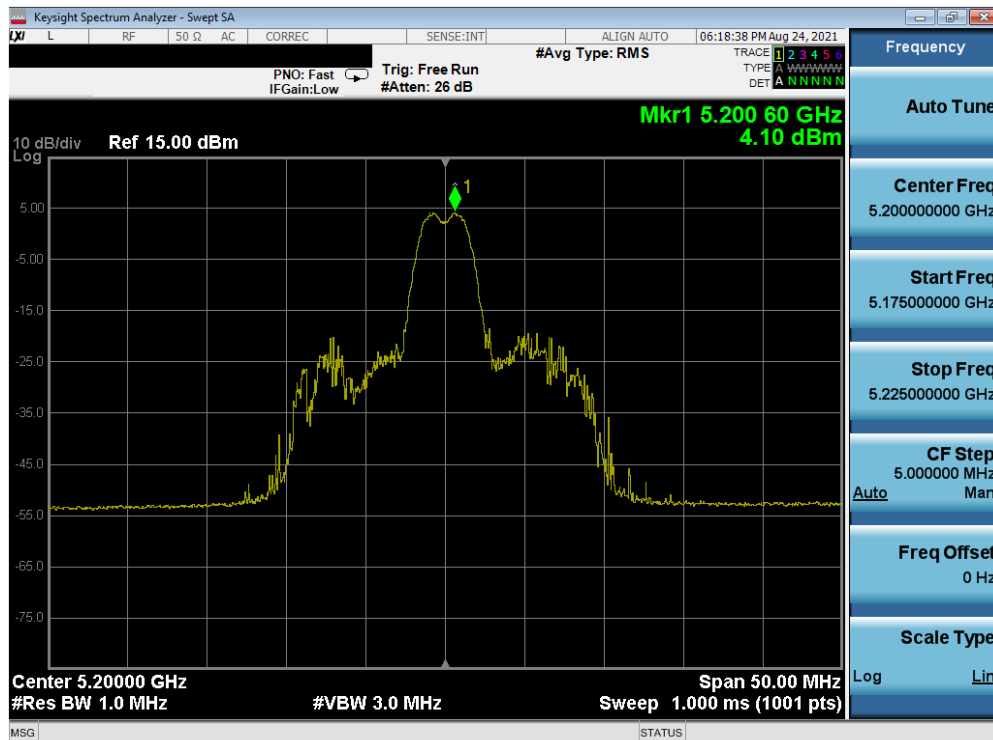
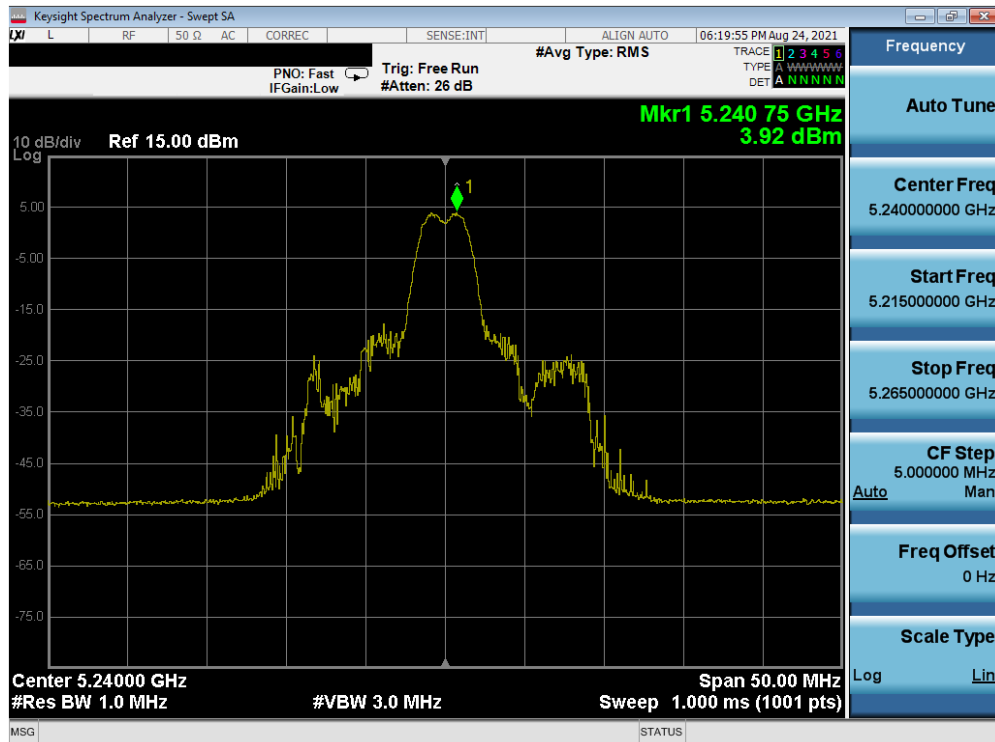


Plot 7-187. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 36)

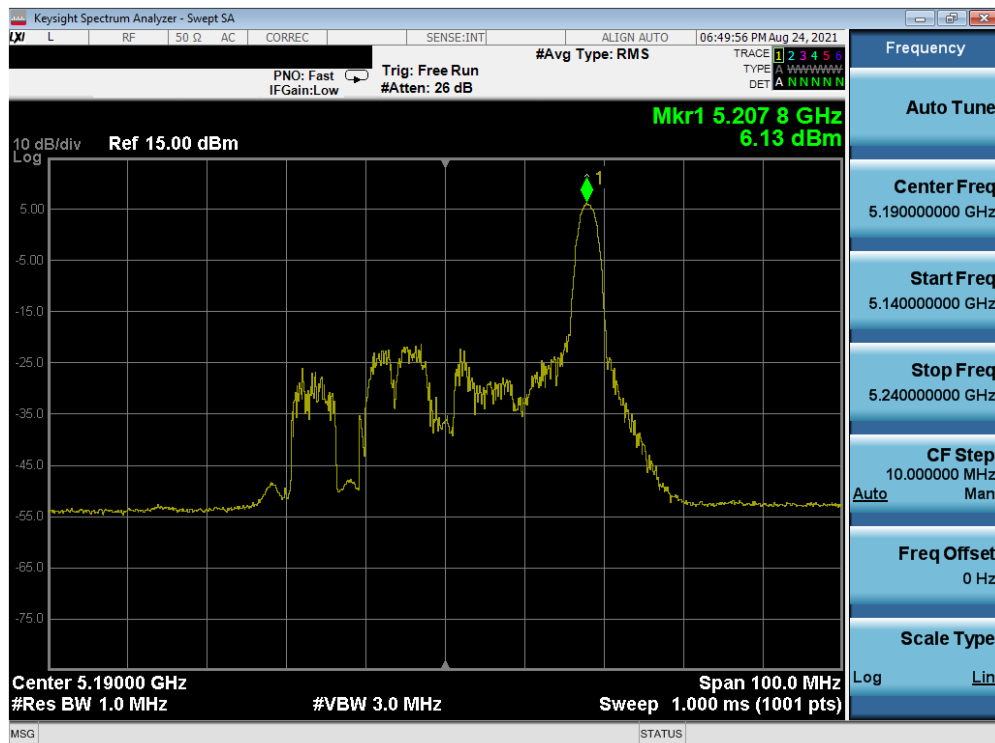


Plot 7-188. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 40)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 155 of 274

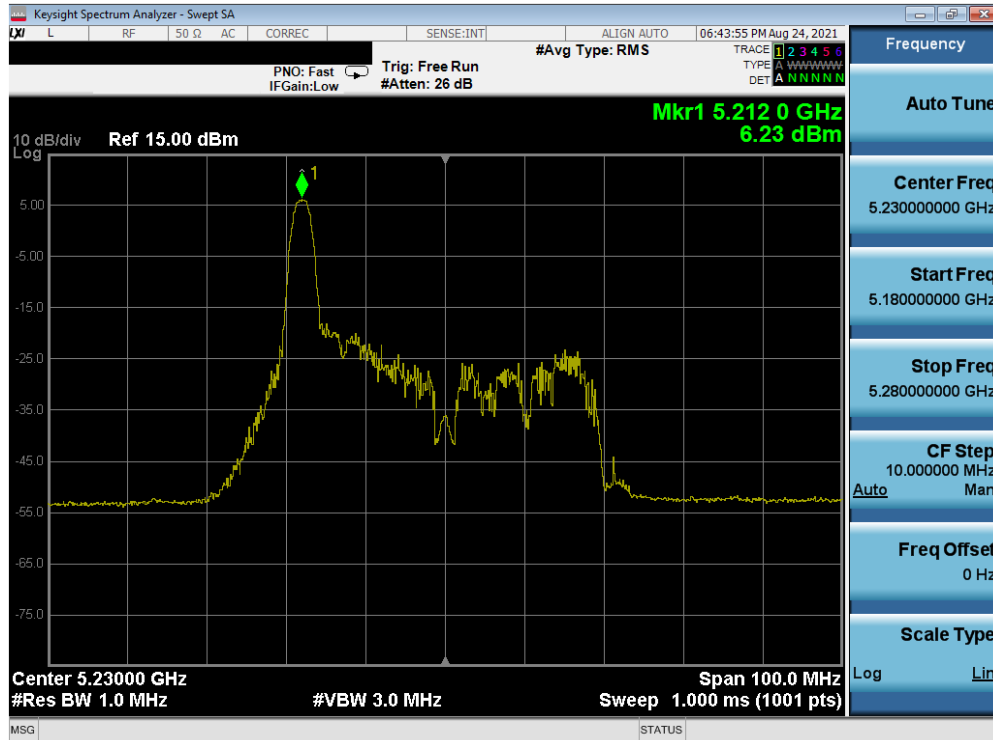


Plot 7-189. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 48)



Plot 7-190. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 38)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 156 of 274

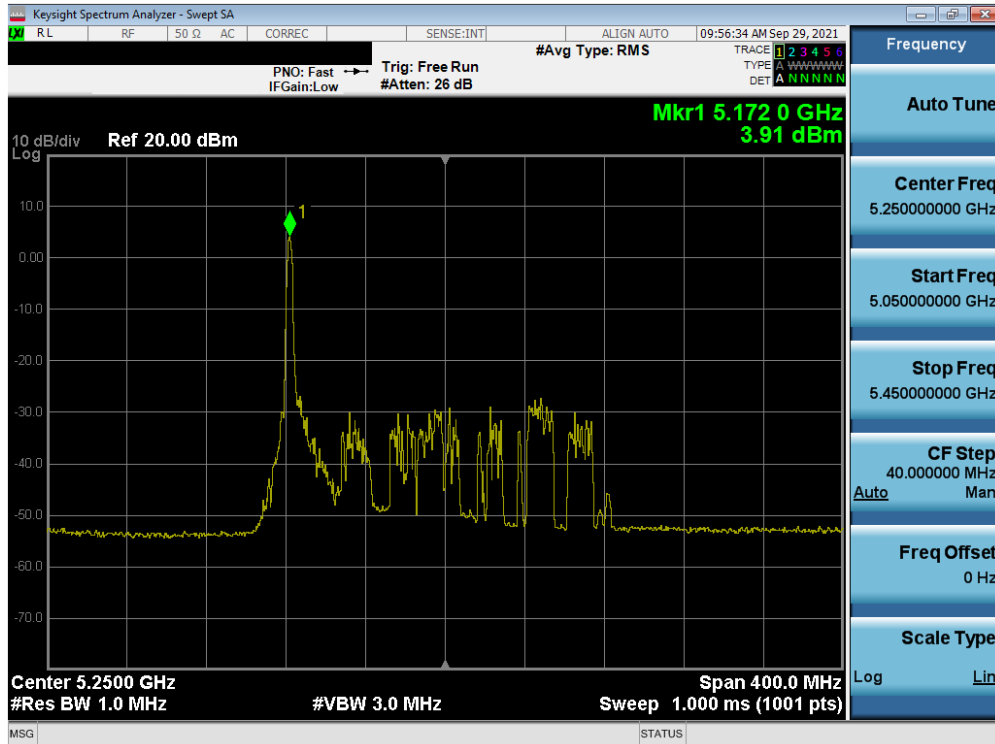


Plot 7-191. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 46)



Plot 7-192. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 1) – Ch. 42)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 157 of 274

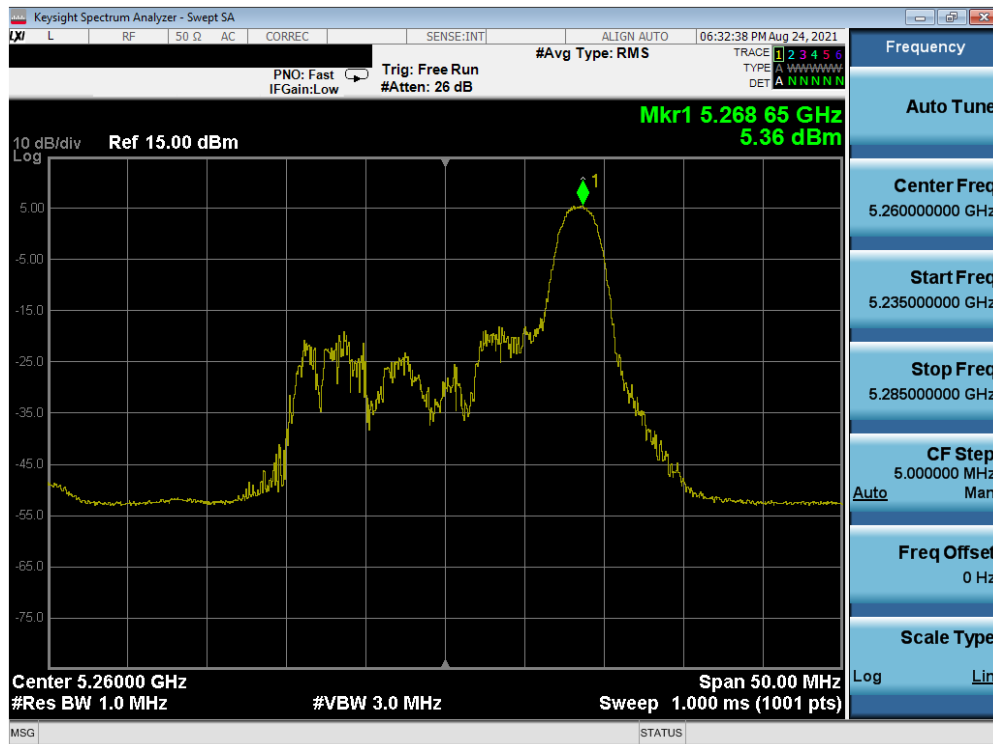


Plot 7-193. Power Spectral Density Plot SISO ANT2 (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

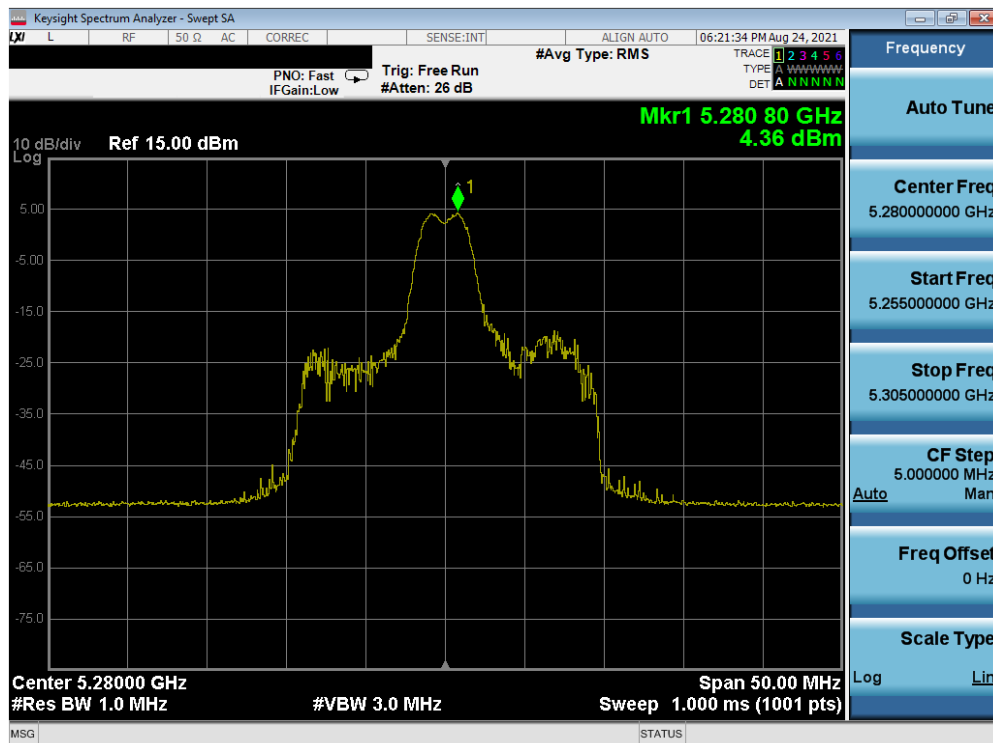


Plot 7-194. Power Spectral Density Plot SISO ANT2 (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 158 of 274

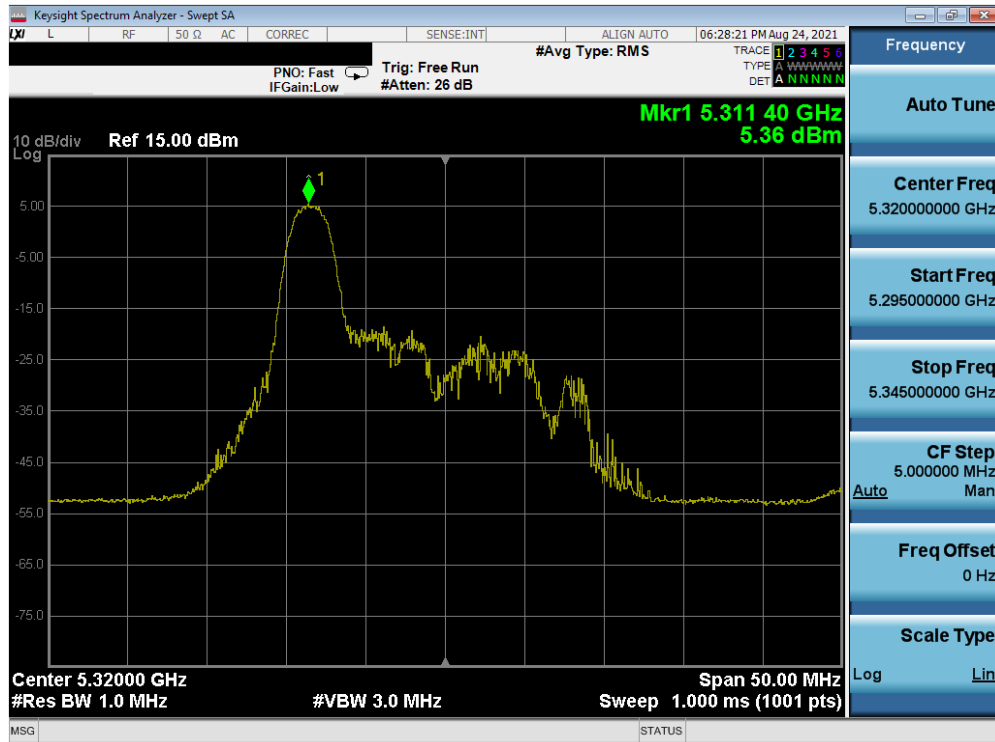


Plot 7-195. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 52)

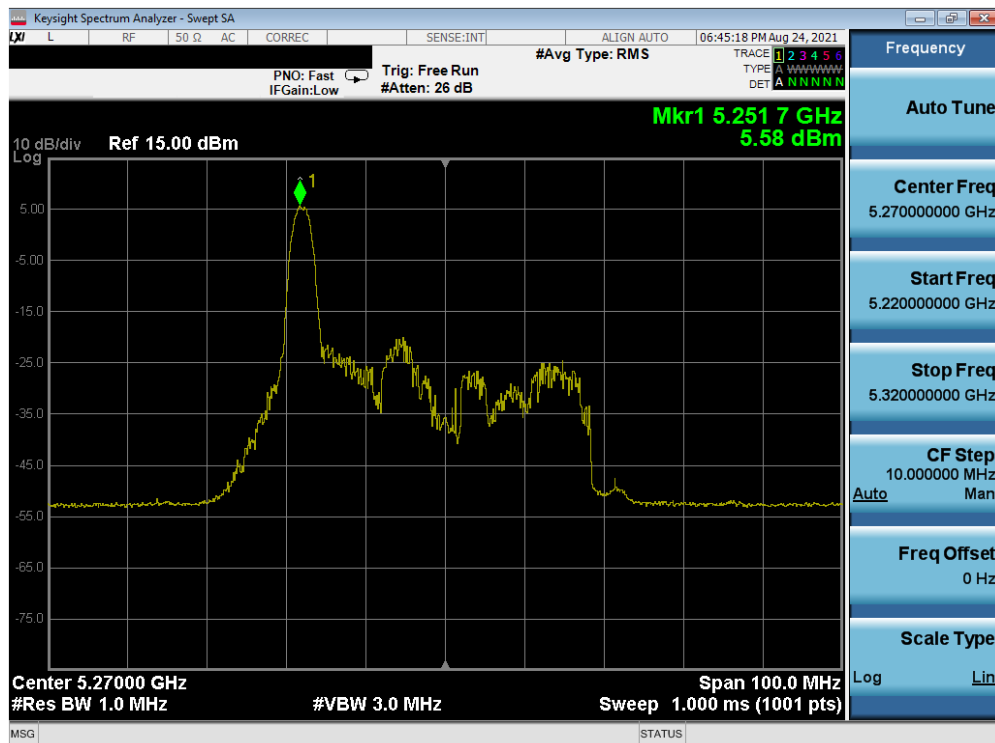


Plot 7-196. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 56)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 159 of 274

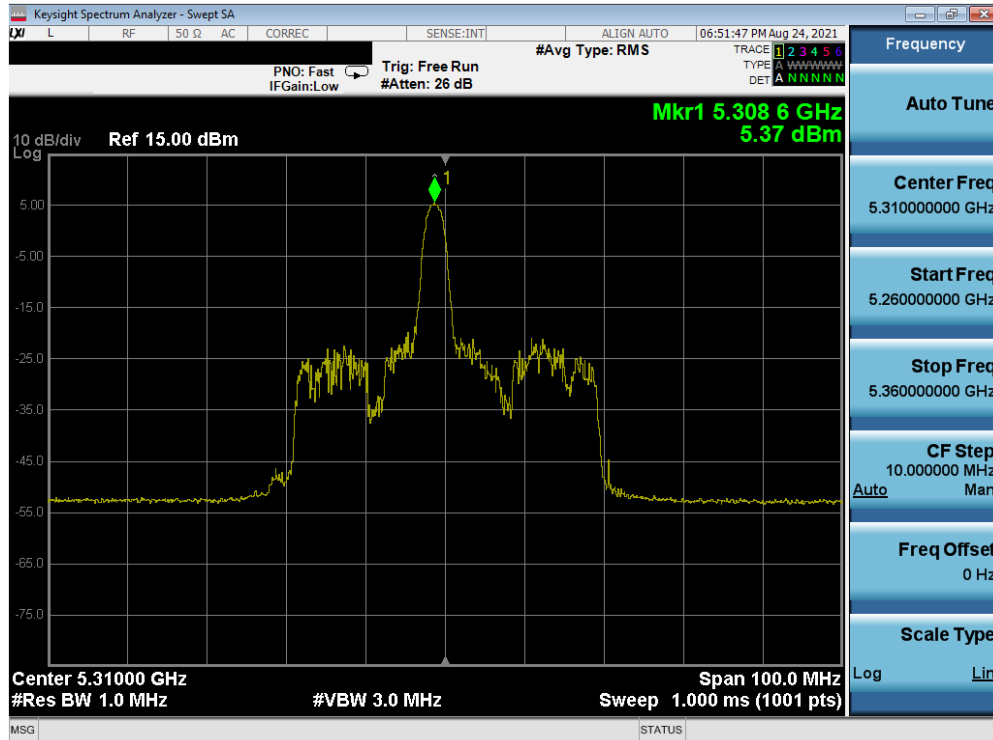


Plot 7-197. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 64)

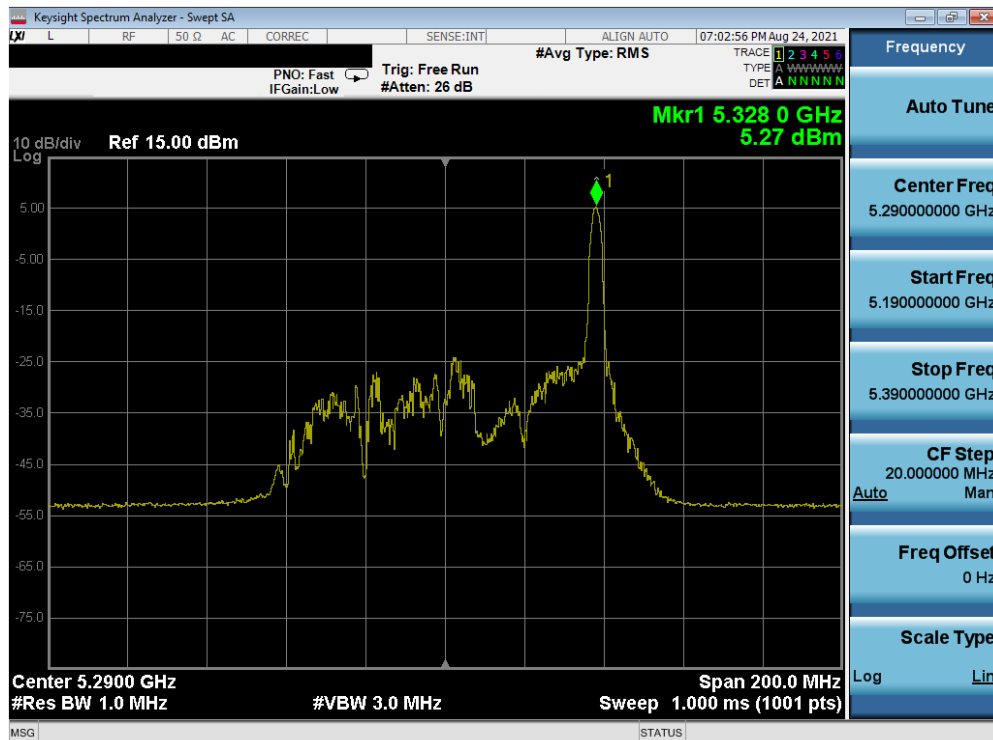


Plot 7-198. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 54)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 160 of 274

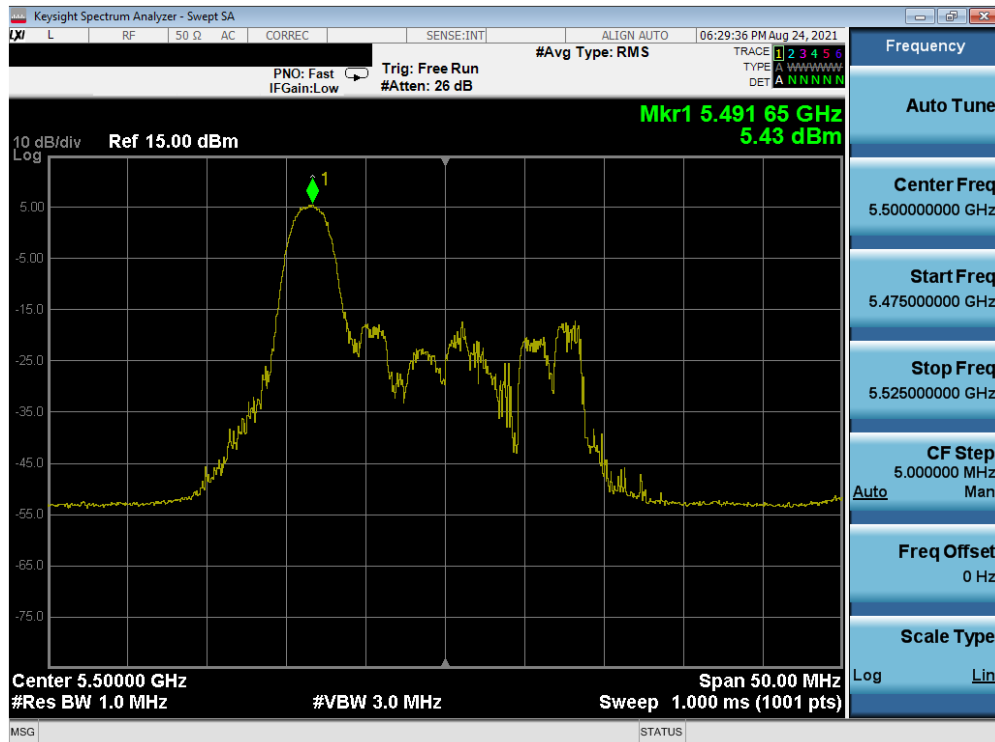


Plot 7-199. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 62)

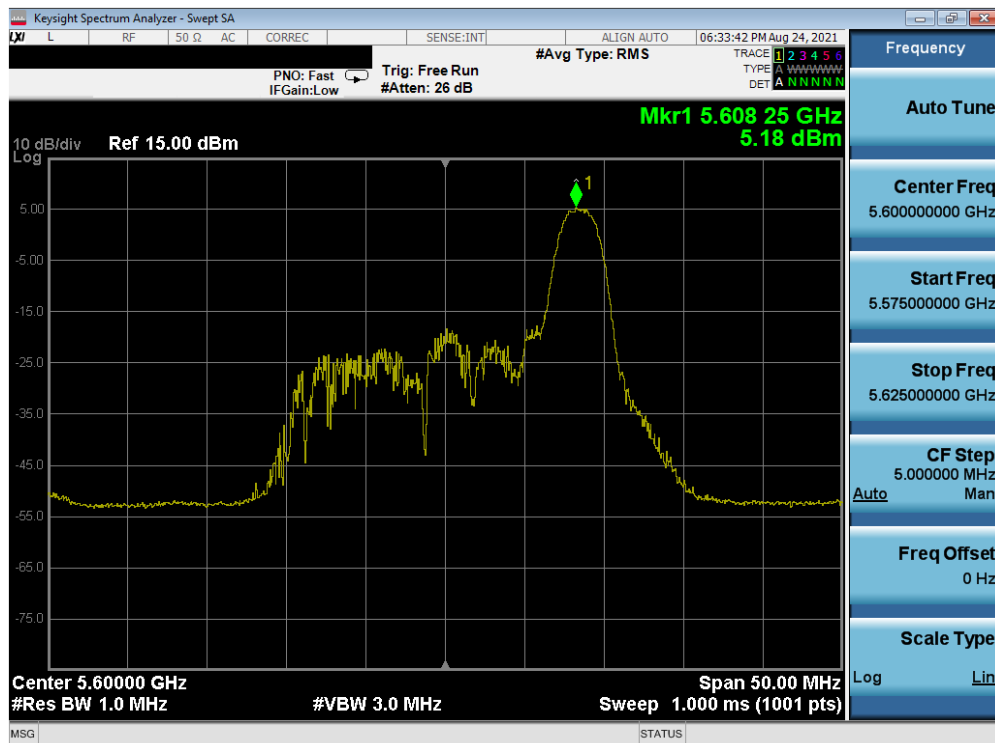


Plot 7-200. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2A) – Ch. 58)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 161 of 274



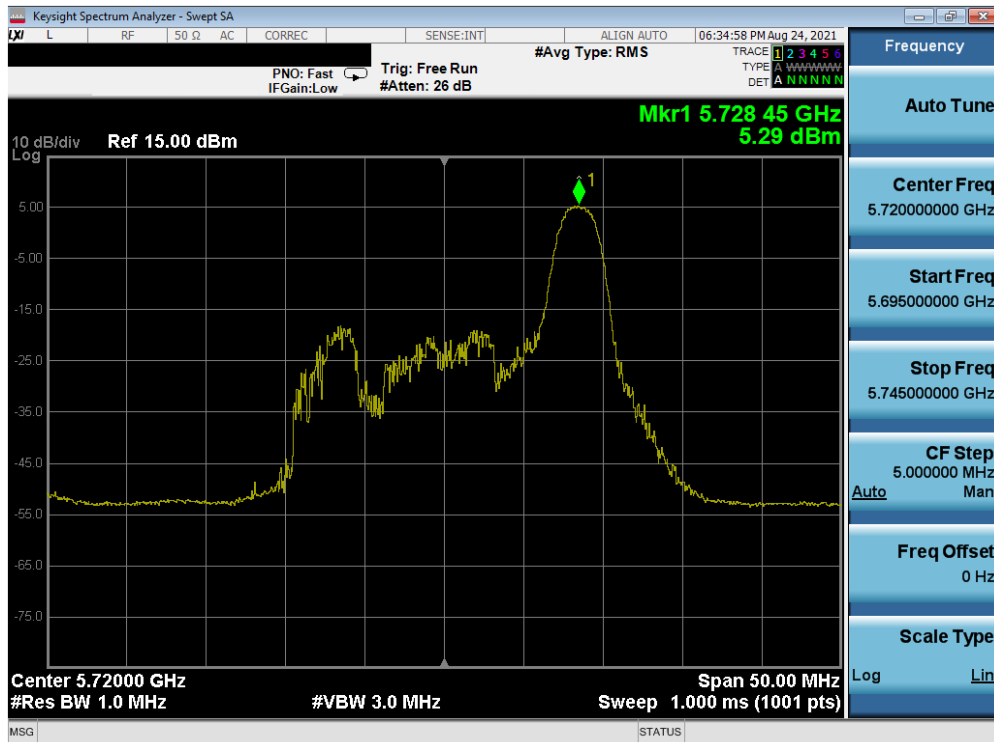
Plot 7-201. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 100)



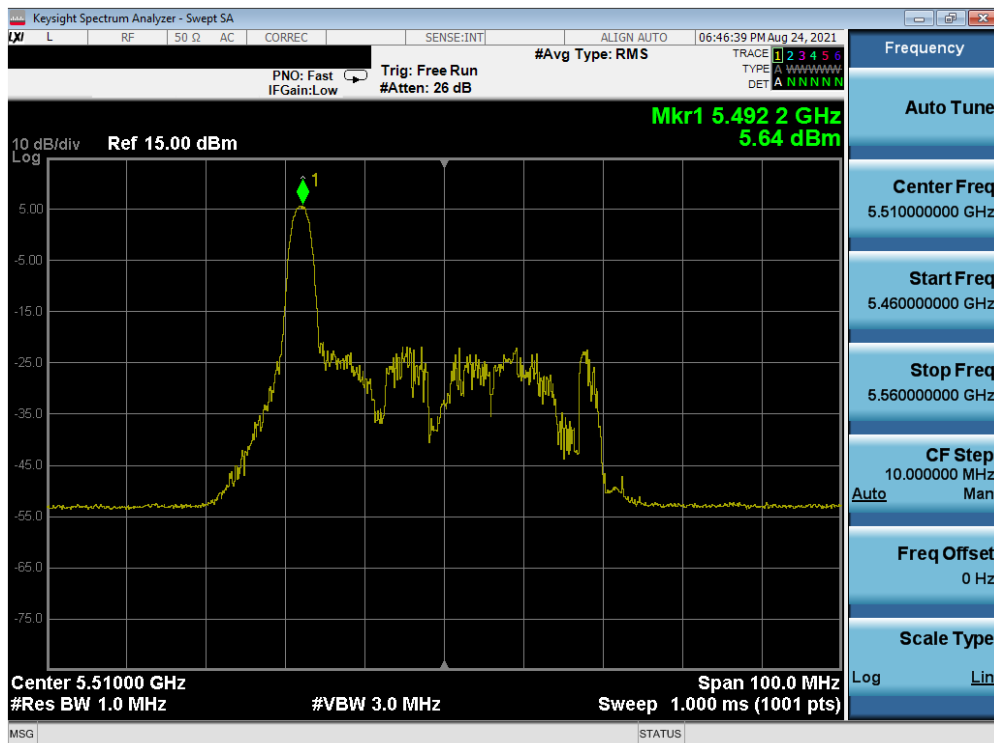
Plot 7-202. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 120)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 162 of 274



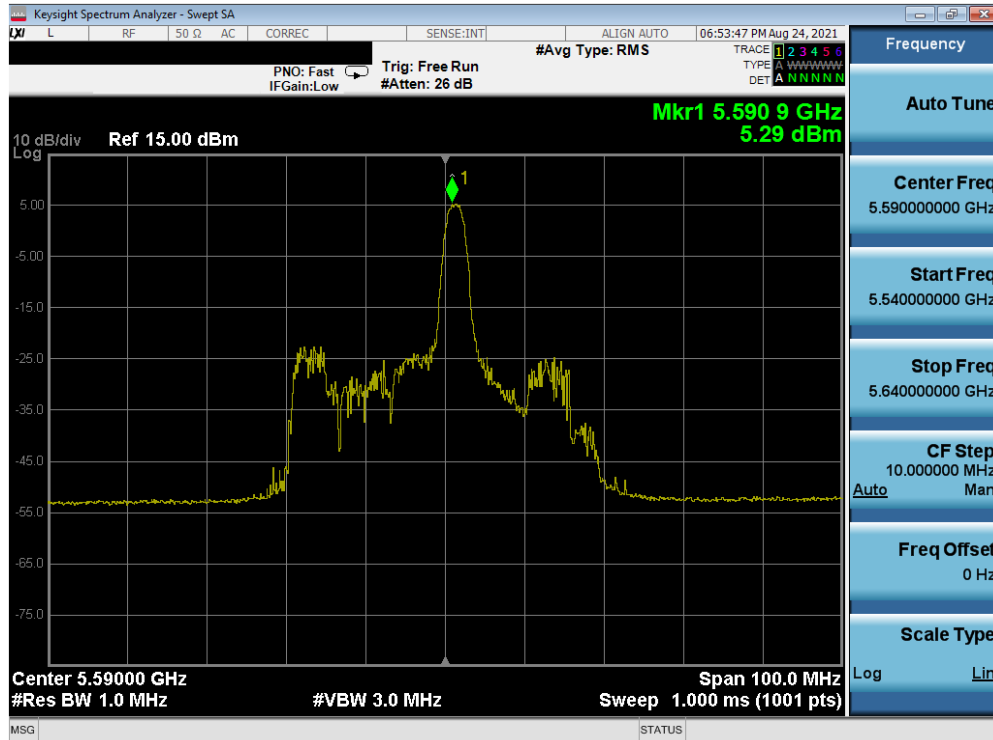


Plot 7-203. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 144)

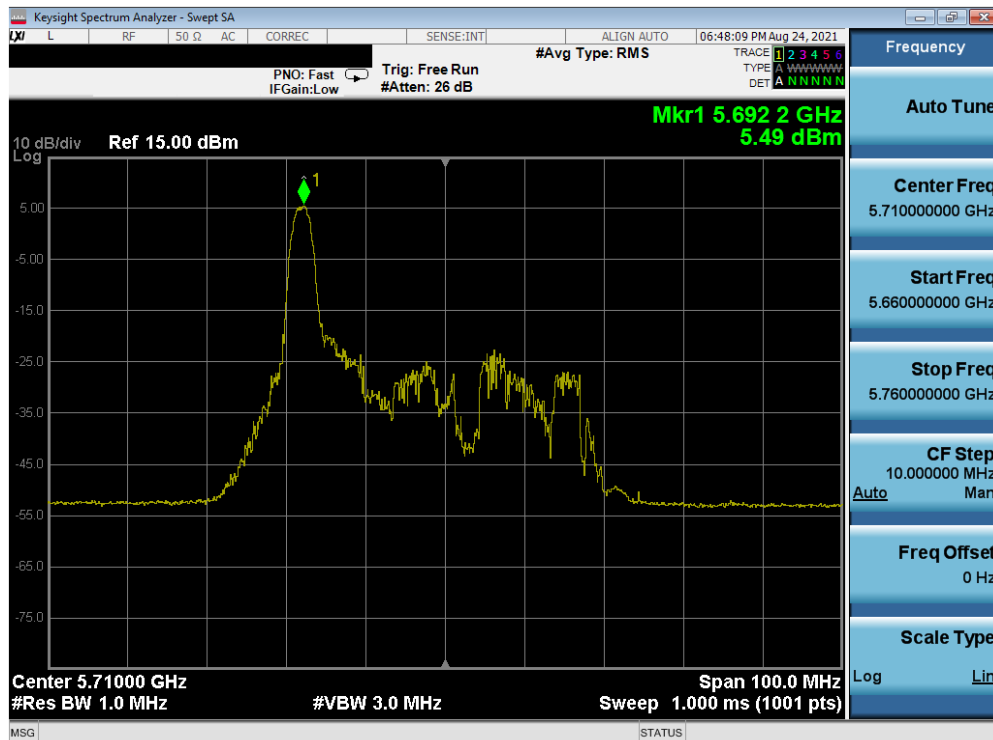


Plot 7-204. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 102)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 163 of 274



Plot 7-205. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 118)



Plot 7-206. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 142)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 164 of 274



Plot 7-207. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 106)

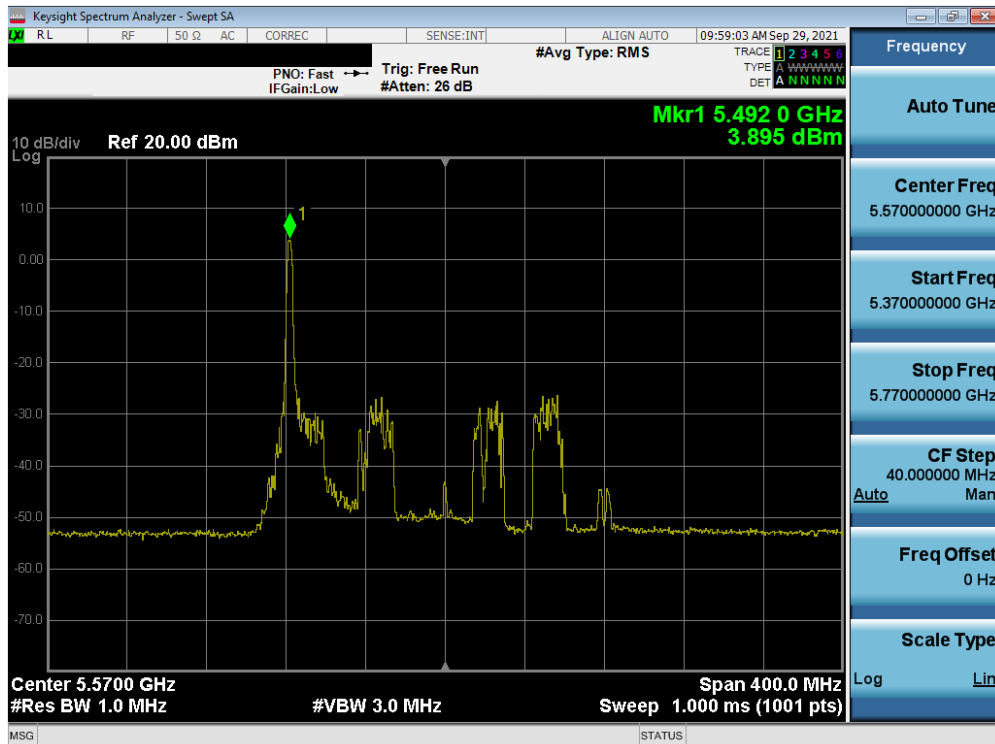


Plot 7-208. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 122)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 165 of 274

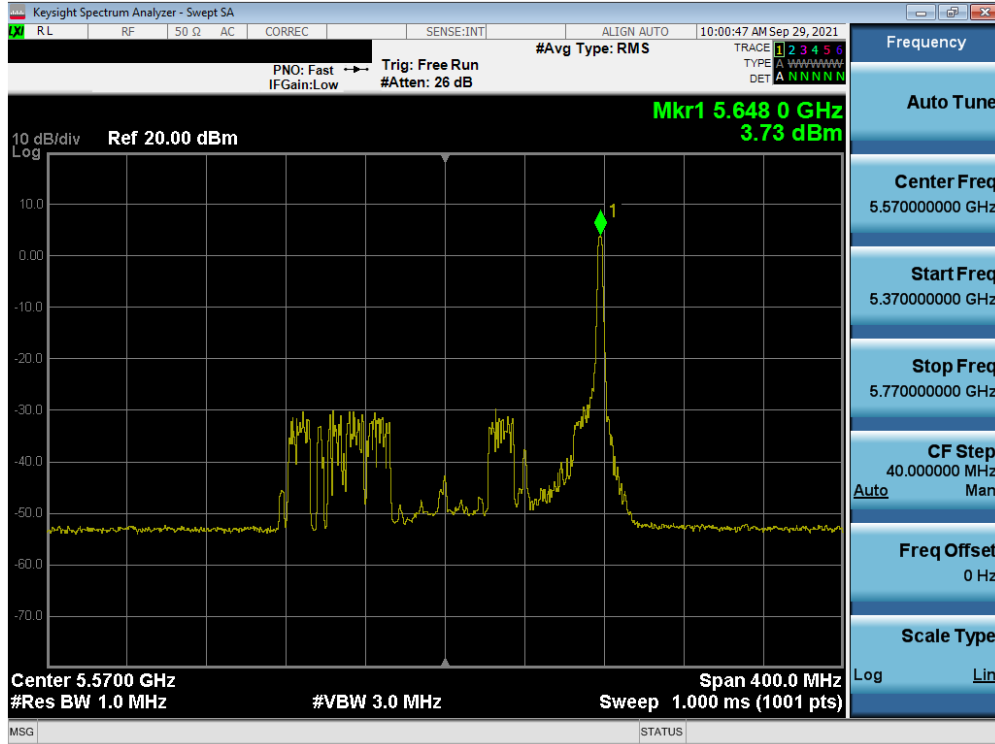


Plot 7-209. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 2C) – Ch. 138)



Plot 7-210. Power Spectral Density Plot SISO ANT2 (160MHz BW (L) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 166 of 274



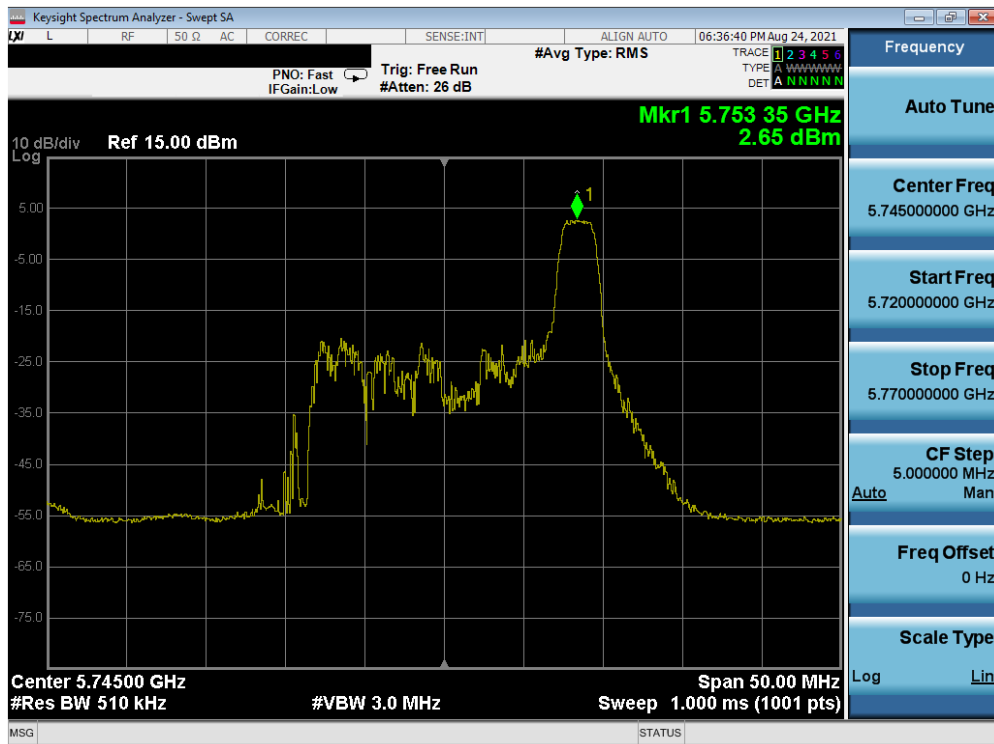
Plot 7-211. Power Spectral Density Plot SISO ANT2 (160MHz BW (U) 802.11ax – 26 Tones (UNII Band 2C) – Ch. 114)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 167 of 274

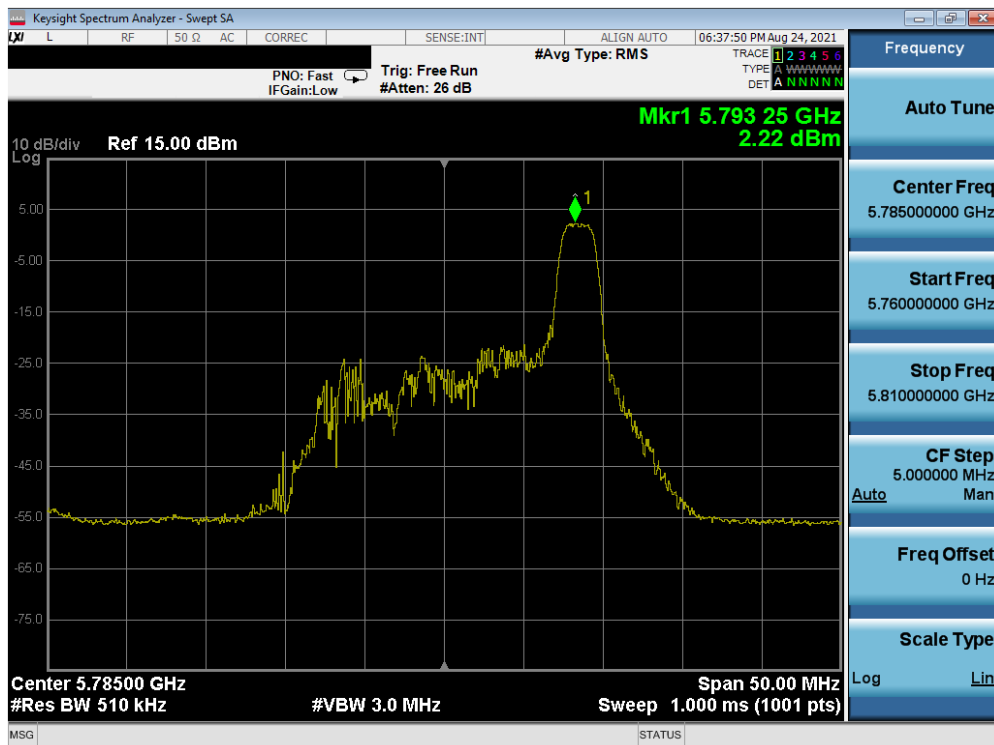
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
<b>Band 3</b>	5745	149	ax (20MHz)	26T	MCS0	2.65	30.00	-27.35
	5785	157	ax (20MHz)	26T	MCS0	2.22	30.00	-27.78
	5825	165	ax (20MHz)	26T	MCS0	2.45	30.00	-27.55
	5755	151	ax (40MHz)	26T	MCS0	2.91	30.00	-27.09
	5795	159	ax (40MHz)	26T	MCS0	2.73	30.00	-27.27
	5775	155	ax (80MHz)	26T	MCS0	3.11	30.00	-26.89

**Table 7-96. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (26 Tones)**

<b>FCC ID:</b> PY7-95324M		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>SONY</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2108040087-09.PY7	<b>Test Dates:</b> 8/2/2021 - 9/10/2021	<b>EUT Type:</b> Portable Handset		Page 168 of 274

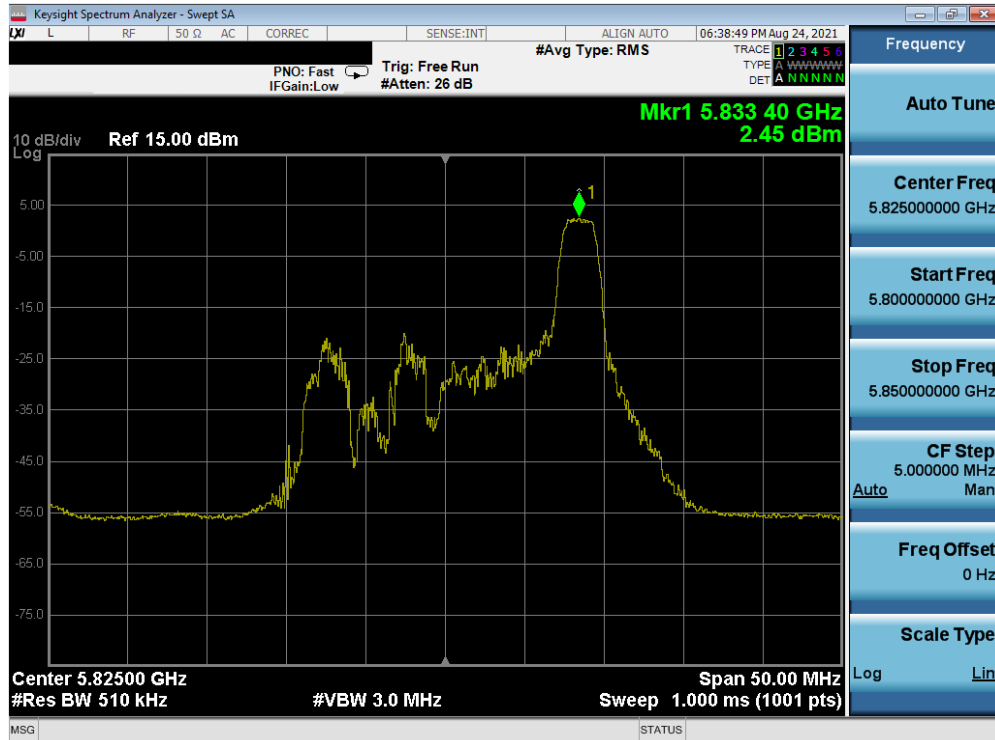


Plot 7-212. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 149)

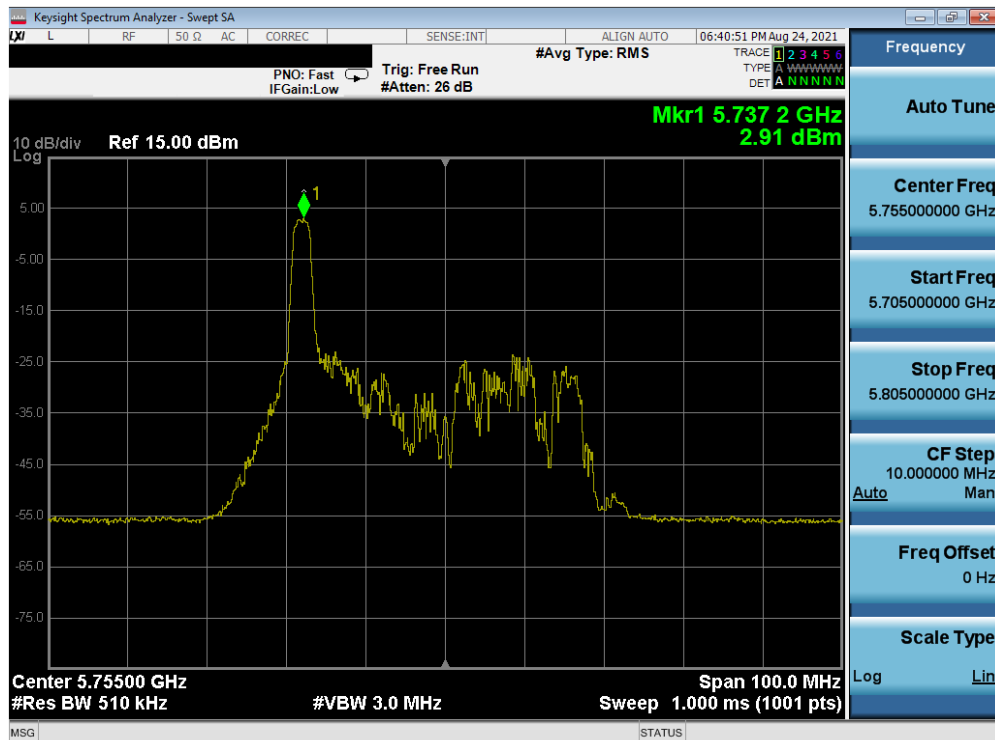


Plot 7-213. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 157)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 169 of 274



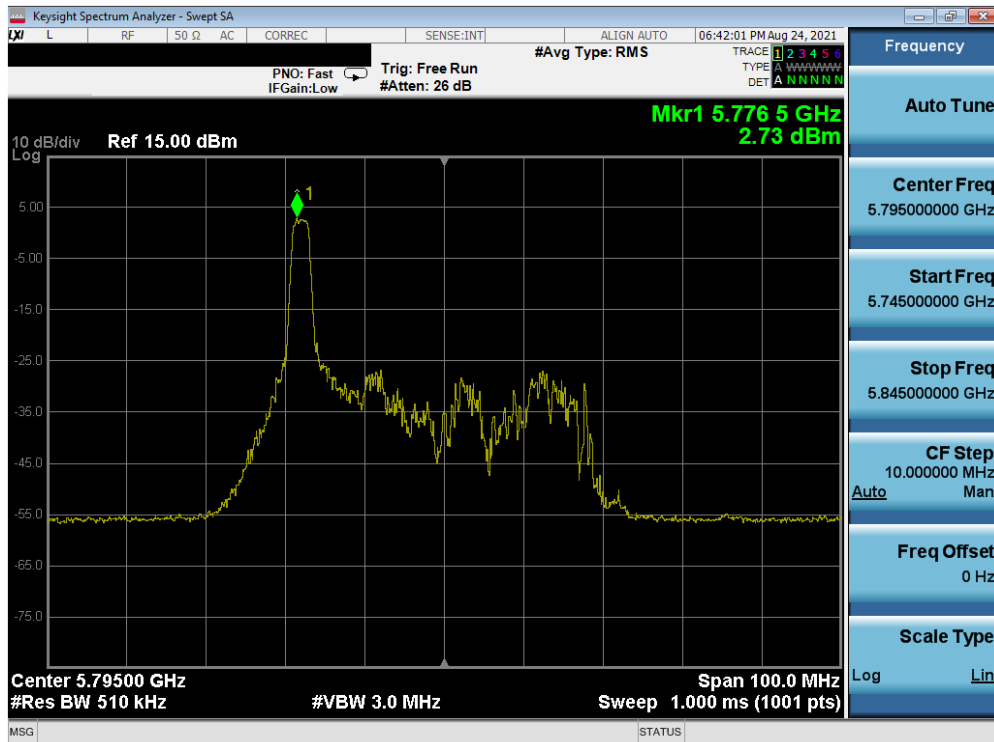
Plot 7-214. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 165)



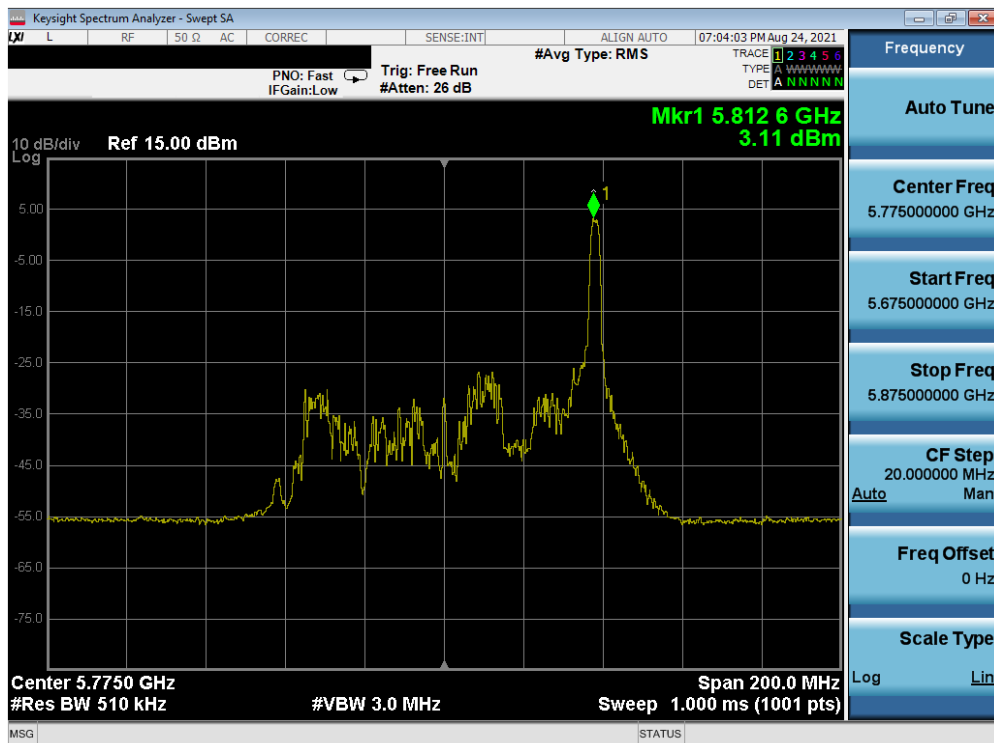
Plot 7-215. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 151)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 170 of 274





Plot 7-216. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 159)



Plot 7-217. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – 26 Tones (UNII Band 3) – Ch. 155)

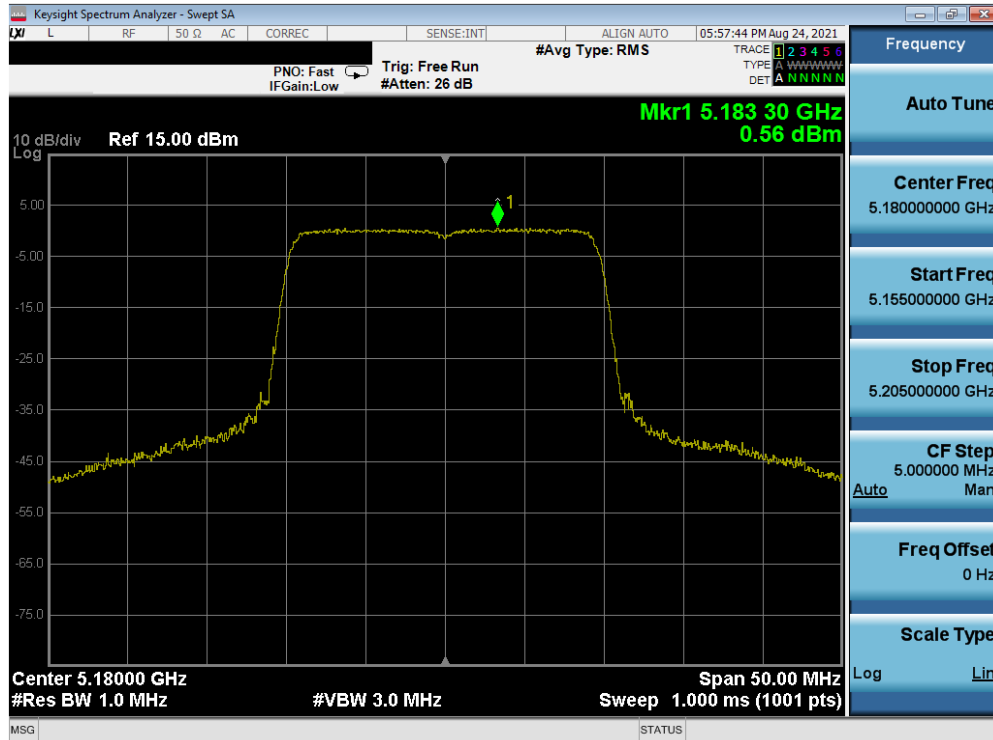
FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 171 of 274

## SISO Antenna-2 Power Spectral Density Measurements (Full Tones)

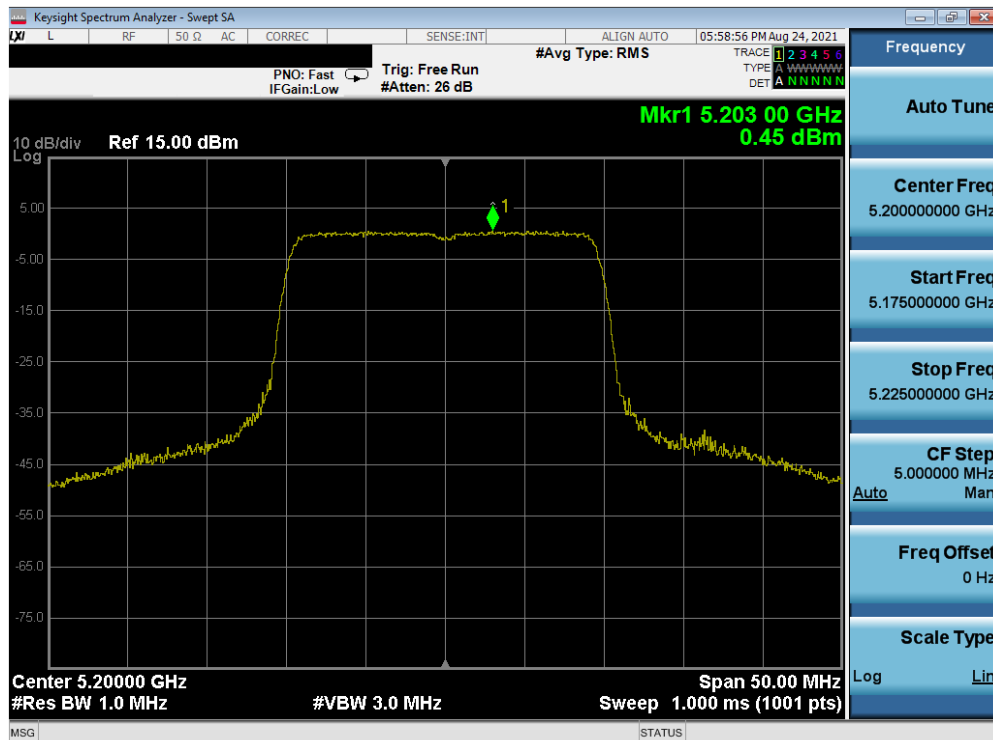
	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	ax (20MHz)	242T	MCS0	0.56	11.0	-10.44
	5200	40	ax (20MHz)	242T	MCS0	0.45	11.0	-10.55
	5240	48	ax (20MHz)	242T	MCS0	0.20	11.0	-10.80
	5190	38	ax (40MHz)	484T	MCS0	-4.06	11.0	-15.06
	5230	46	ax (40MHz)	484T	MCS0	-2.87	11.0	-13.87
	5210	42	ax (80MHz)	996T	MCS0	-7.43	11.0	-18.43
Band 1/2A	5250	50	ax (160 MHz L)	996T	MCS0	-10.37	11.0	-21.37
	5250	50	ax (160 MHz U)	996T	MCS0	-10.04	11.0	-21.04
Band 2A	5260	52	ax (20MHz)	242T	MCS0	0.04	11.0	-10.96
	5280	56	ax (20MHz)	242T	MCS0	-0.02	11.0	-11.02
	5320	64	ax (20MHz)	242T	MCS0	-0.01	11.0	-11.01
	5270	54	ax (40MHz)	484T	MCS0	-2.88	11.0	-13.88
	5310	62	ax (40MHz)	484T	MCS0	-4.67	11.0	-15.67
	5290	58	ax (80MHz)	996T	MCS0	-7.51	11.0	-18.51
Band 2C	5500	100	ax (20MHz)	242T	MCS0	-0.04	11.0	-11.04
	5600	120	ax (20MHz)	242T	MCS0	0.44	11.0	-10.56
	5720	144	ax (20MHz)	242T	MCS0	0.71	11.0	-10.29
	5510	102	ax (40MHz)	484T	MCS0	-4.37	11.0	-15.37
	5590	118	ax (40MHz)	484T	MCS0	-2.45	11.0	-13.45
	5710	142	ax (40MHz)	484T	MCS0	-2.31	11.0	-13.31
	5530	106	ax (80MHz)	996T	MCS0	-7.49	11.0	-18.49
	5610	122	ax (80MHz)	996T	MCS0	-5.33	11.0	-16.33
	5690	138	ax (80MHz)	996T	MCS0	-4.85	11.0	-15.85
	5570	114	ax (160 MHz L)	996T	MCS0	-9.12	11.0	-20.12
	5570	114	ax (160 MHz U)	996T	MCS0	-8.83	11.0	-19.83

**Table 7-97. Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 172 of 274

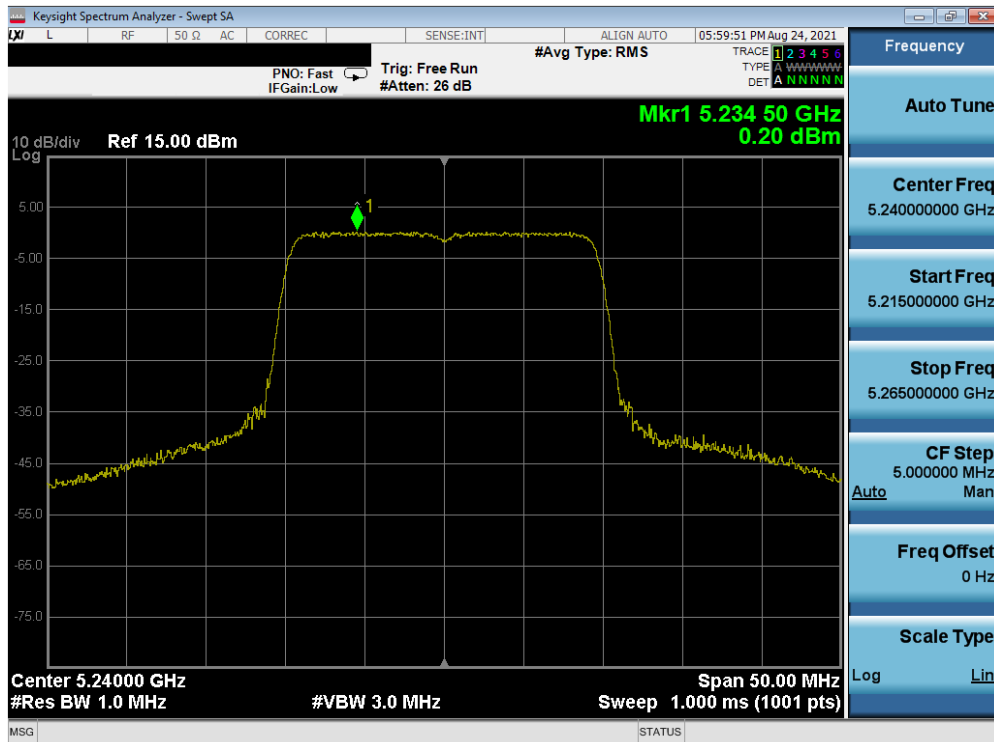


Plot 7-218. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 36)

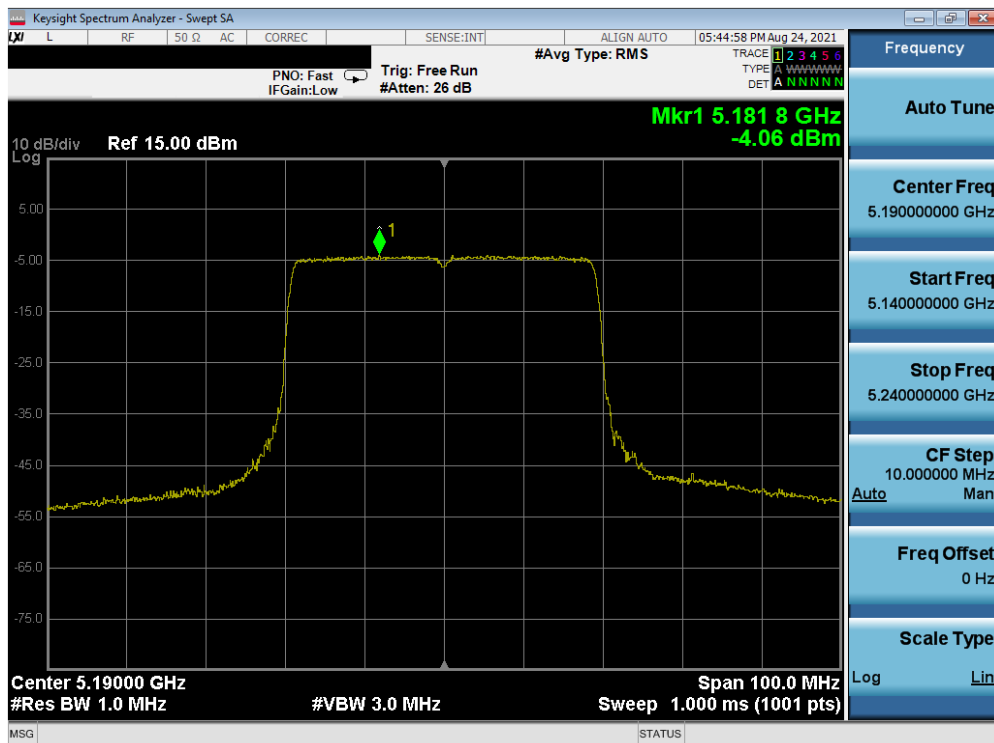


Plot 7-219. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 40)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 173 of 274

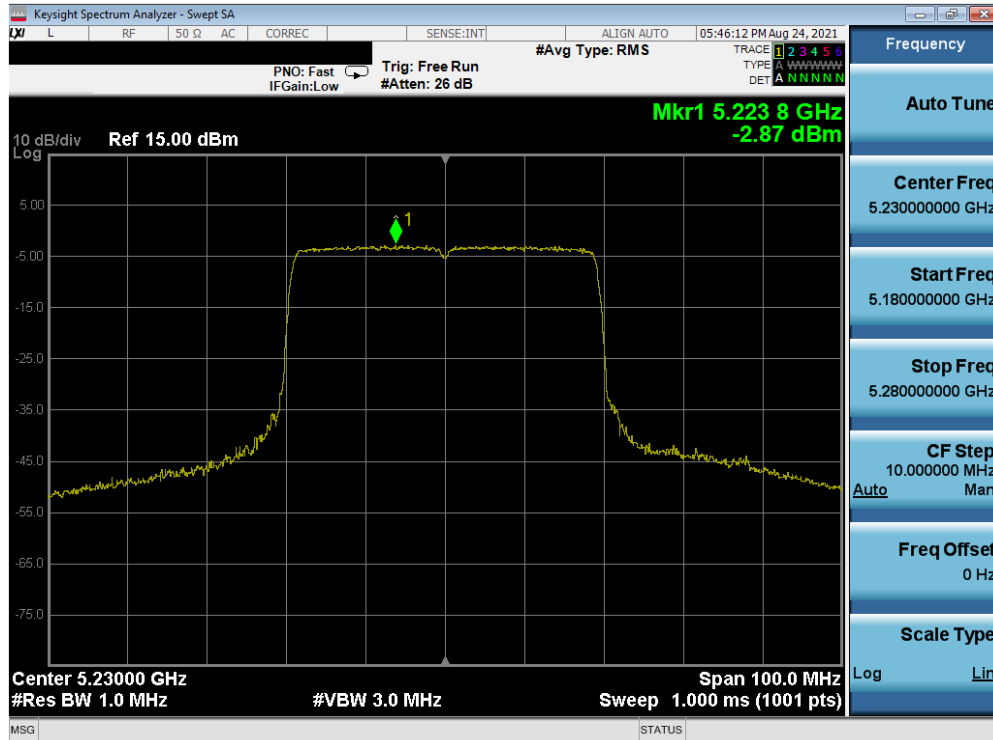


Plot 7-220. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 48)

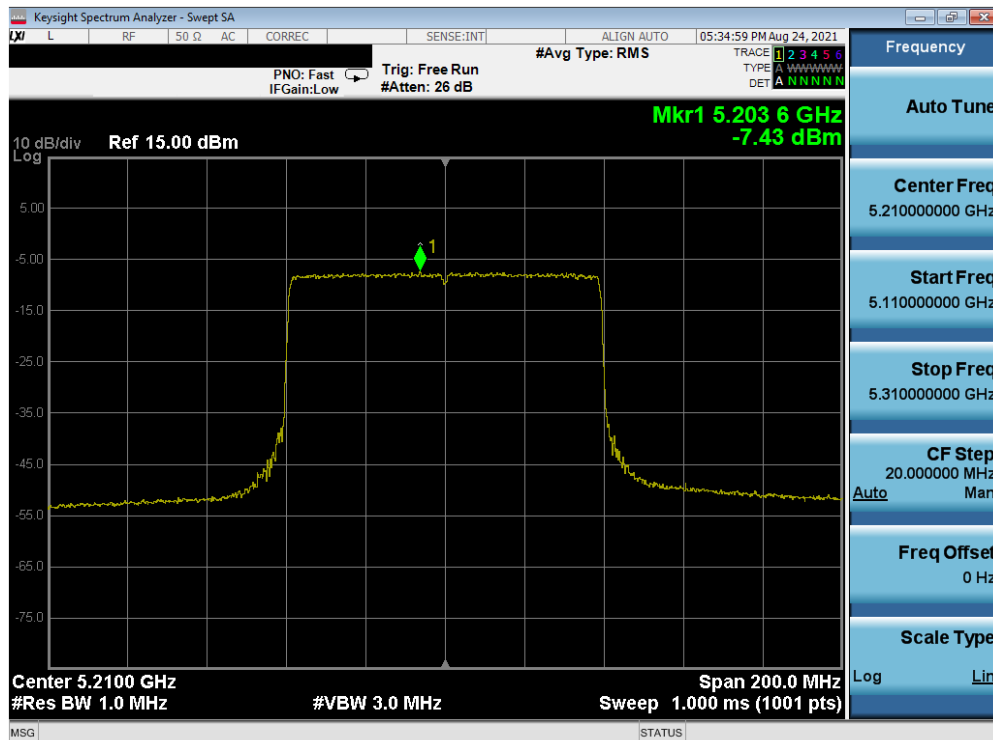


Plot 7-221. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 38)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 174 of 274

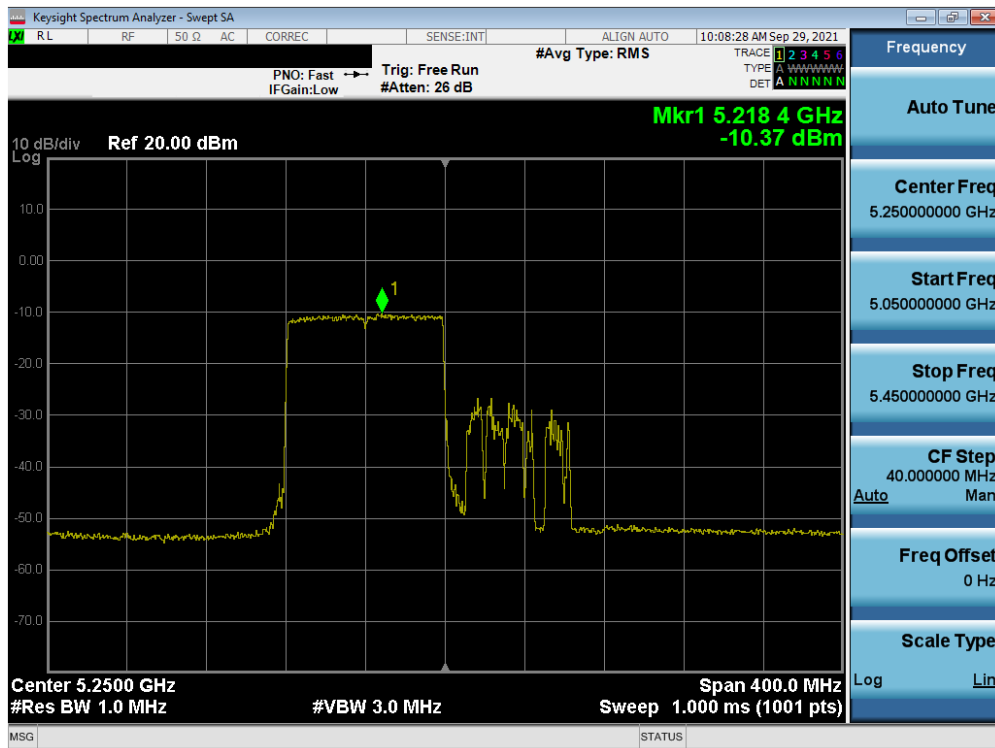


Plot 7-222. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 46)

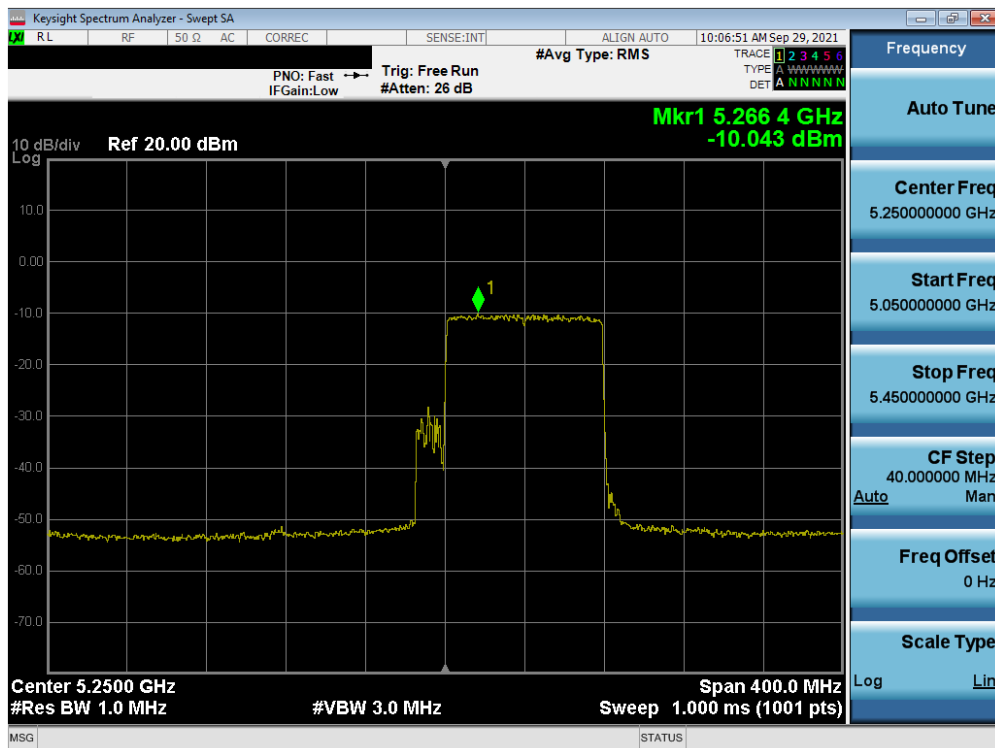


Plot 7-223. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 1) – Ch. 42)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 175 of 274

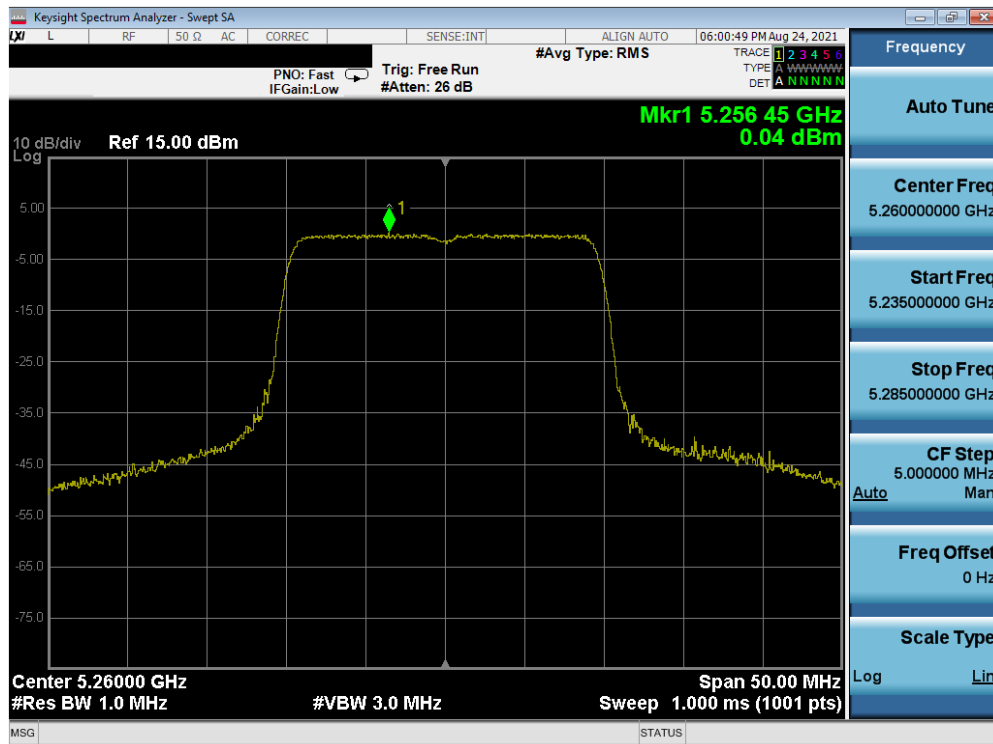


Plot 7-224. Power Spectral Density Plot SISO ANT2 (160MHz BW (L) 802.11ax – Full Tones (UNII Band 1/2A) – Ch. 50)

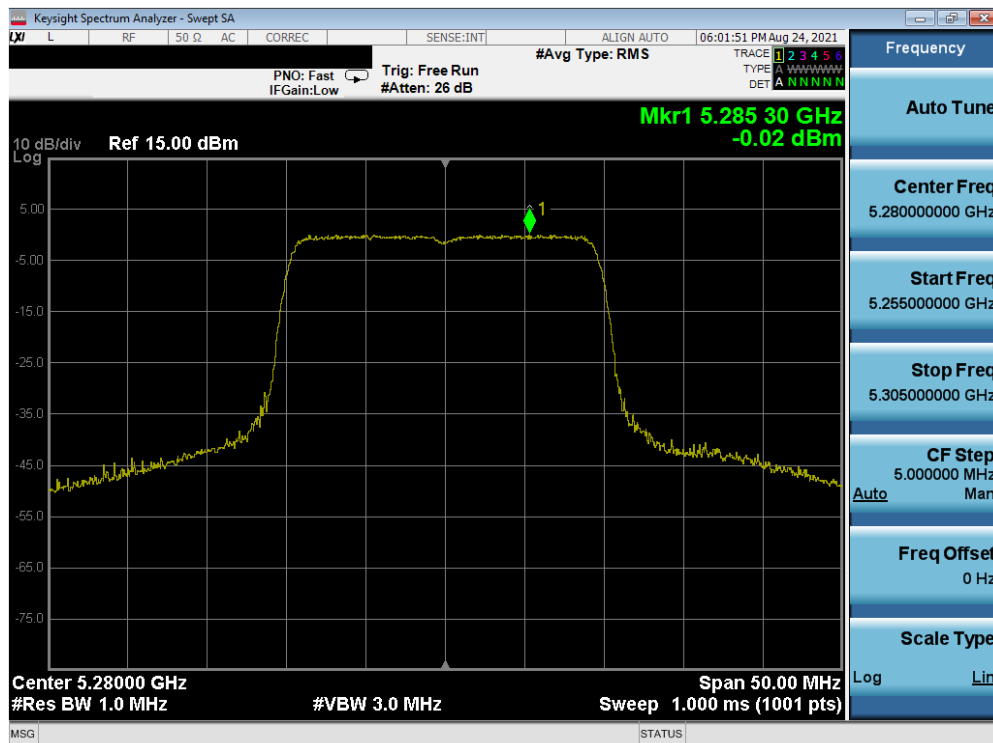


Plot 7-225. Power Spectral Density Plot SISO ANT2 (160MHz BW (U) 802.11ax – Full Tones (UNII Band 1/2A) – Ch. 50)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 176 of 274

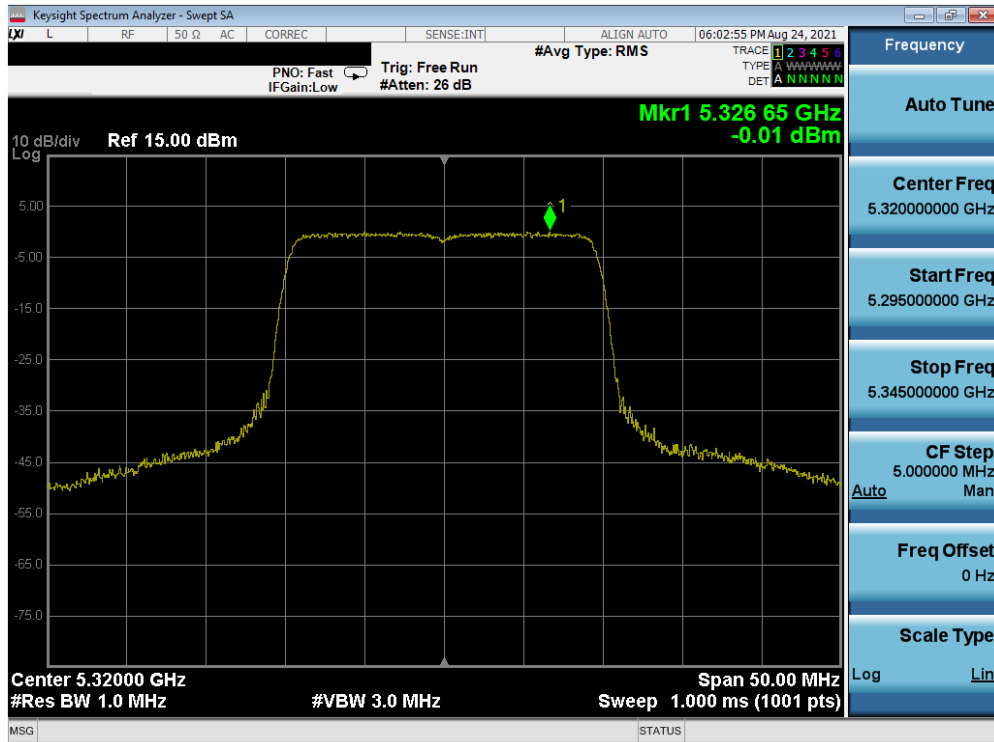


Plot 7-226. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 52)

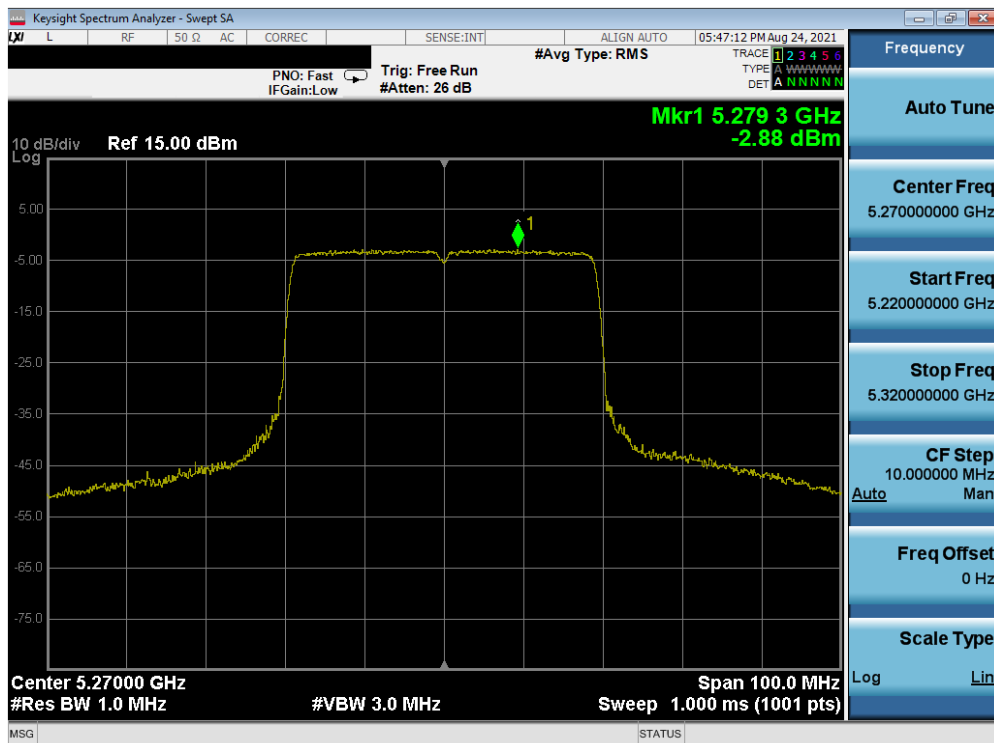


Plot 7-227. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 56)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 177 of 274



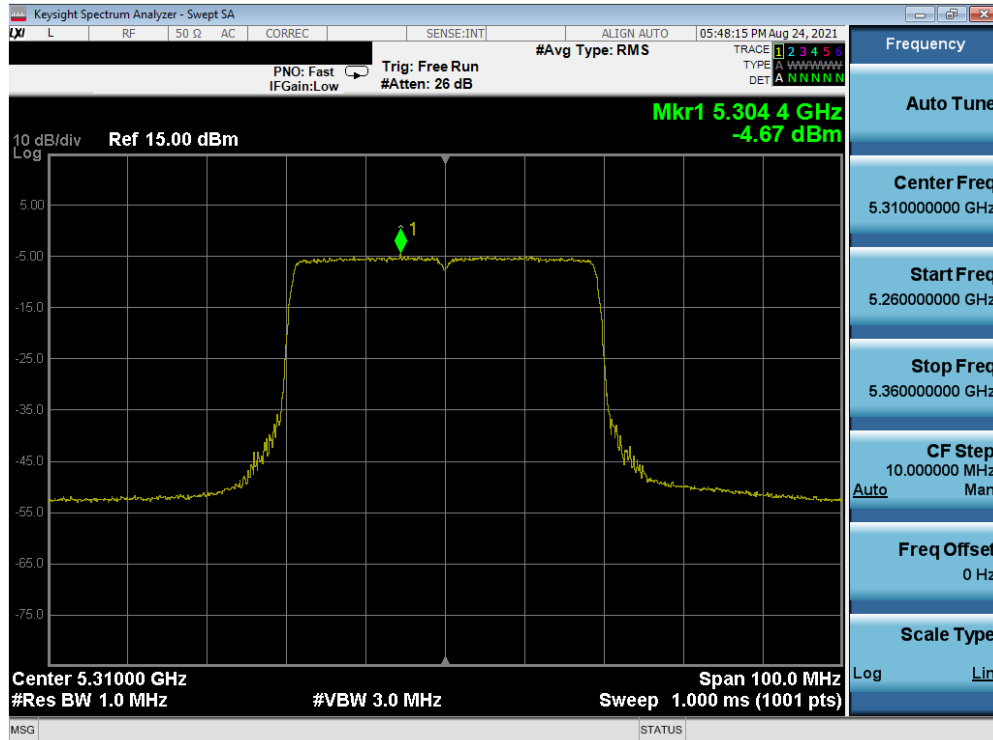
Plot 7-228. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 64)



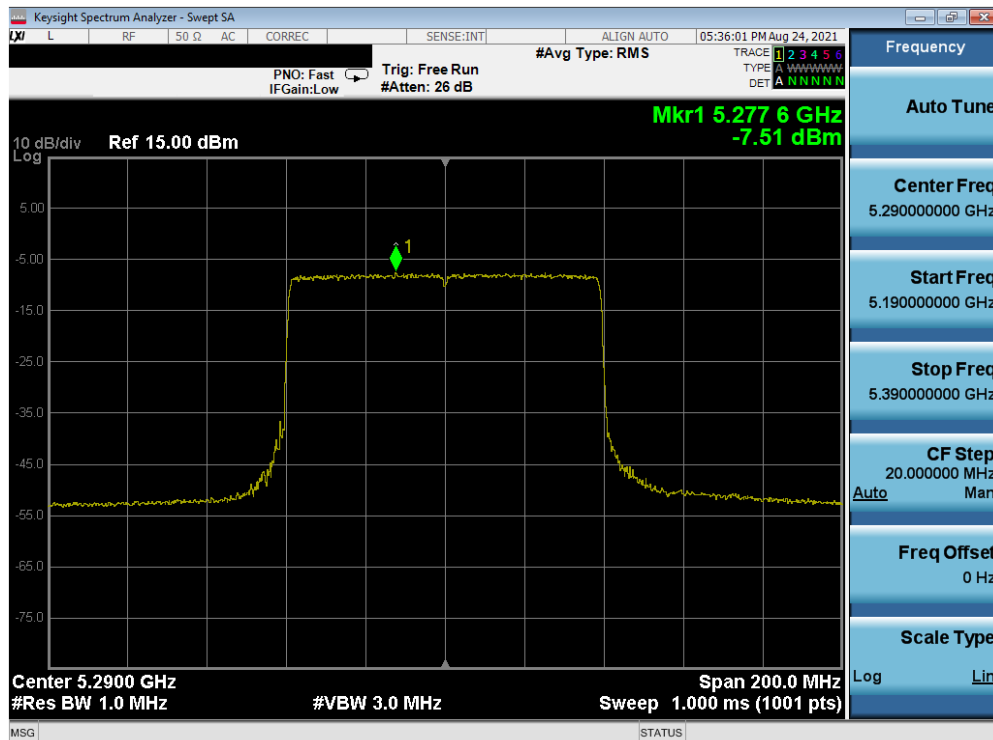
Plot 7-229. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 54)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 178 of 274



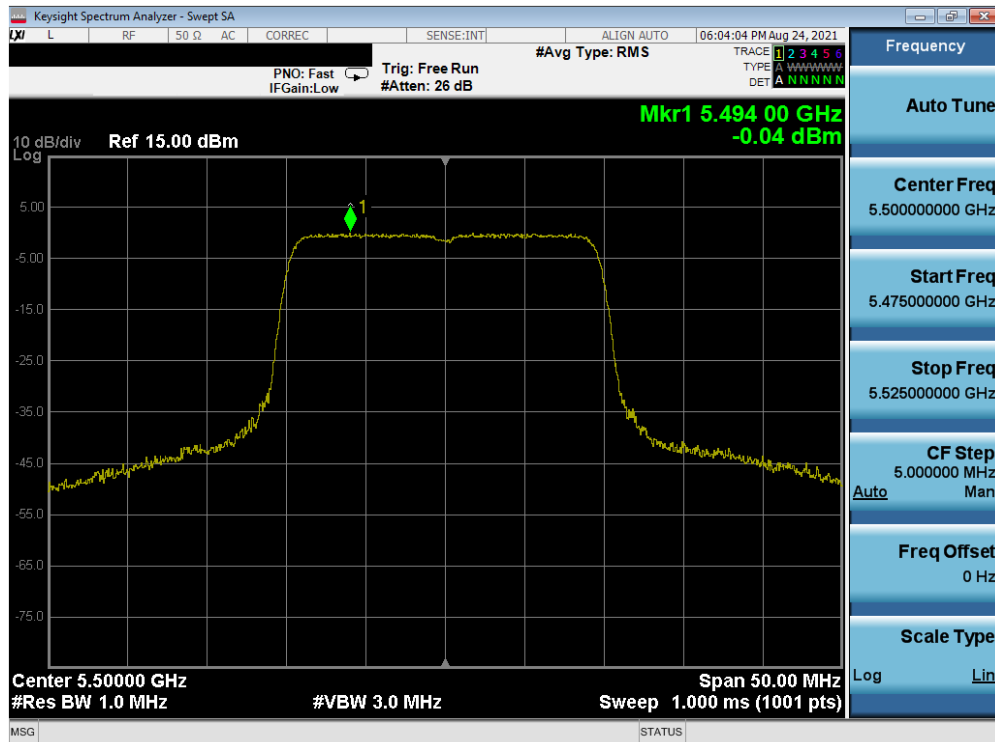


Plot 7-230. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 62)

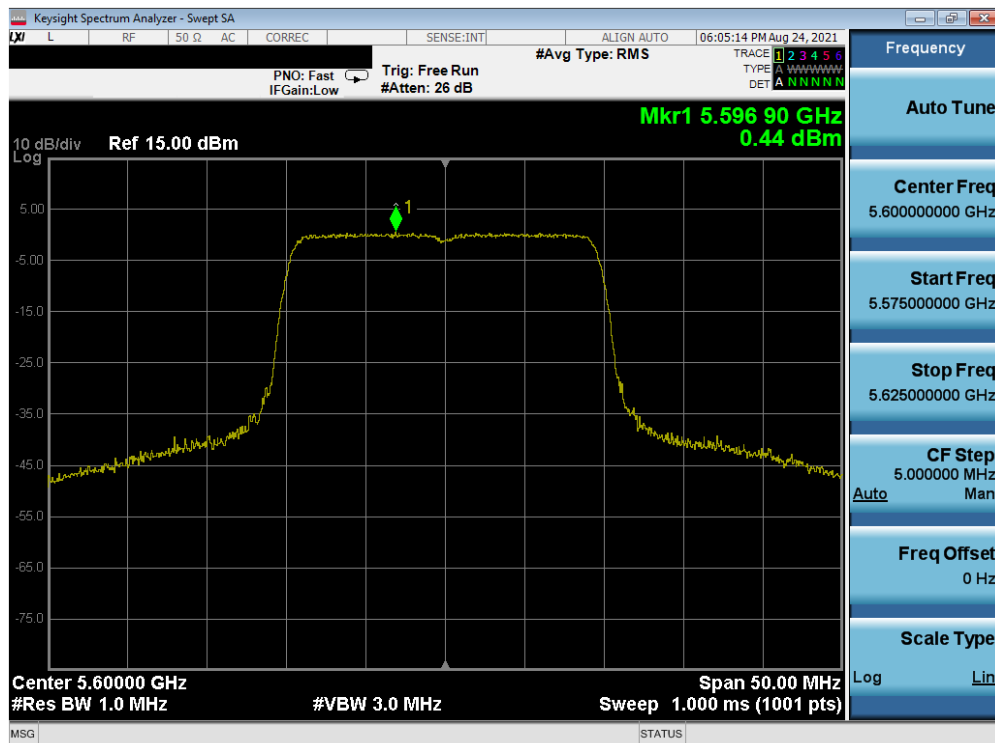


Plot 7-231. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2A) – Ch. 58)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 179 of 274

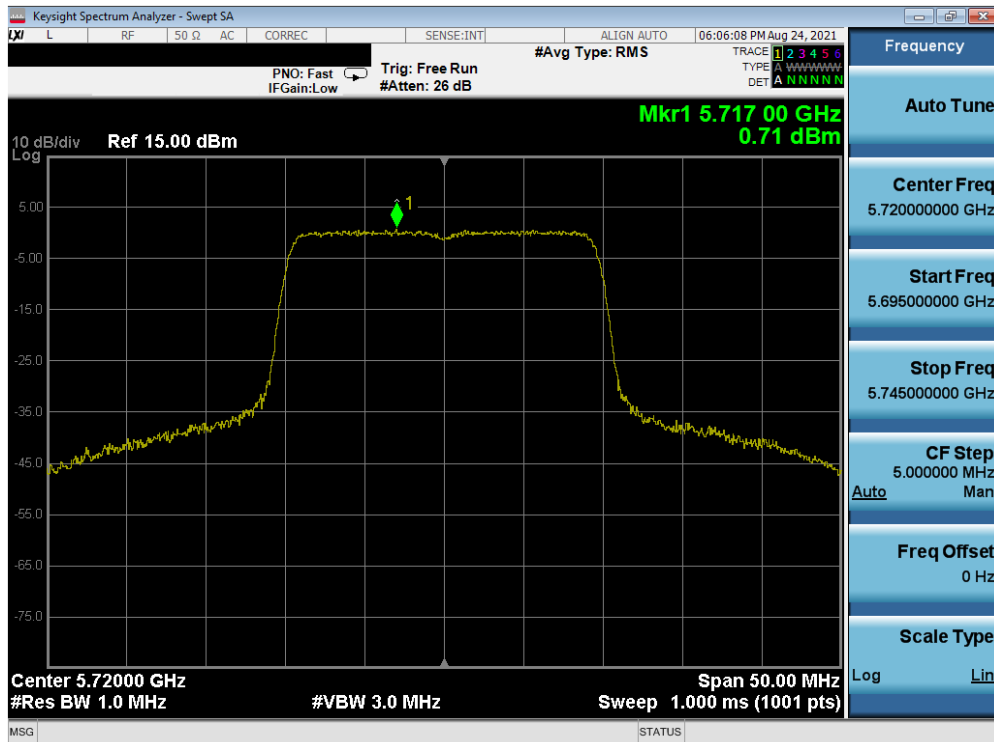


Plot 7-232. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 100)

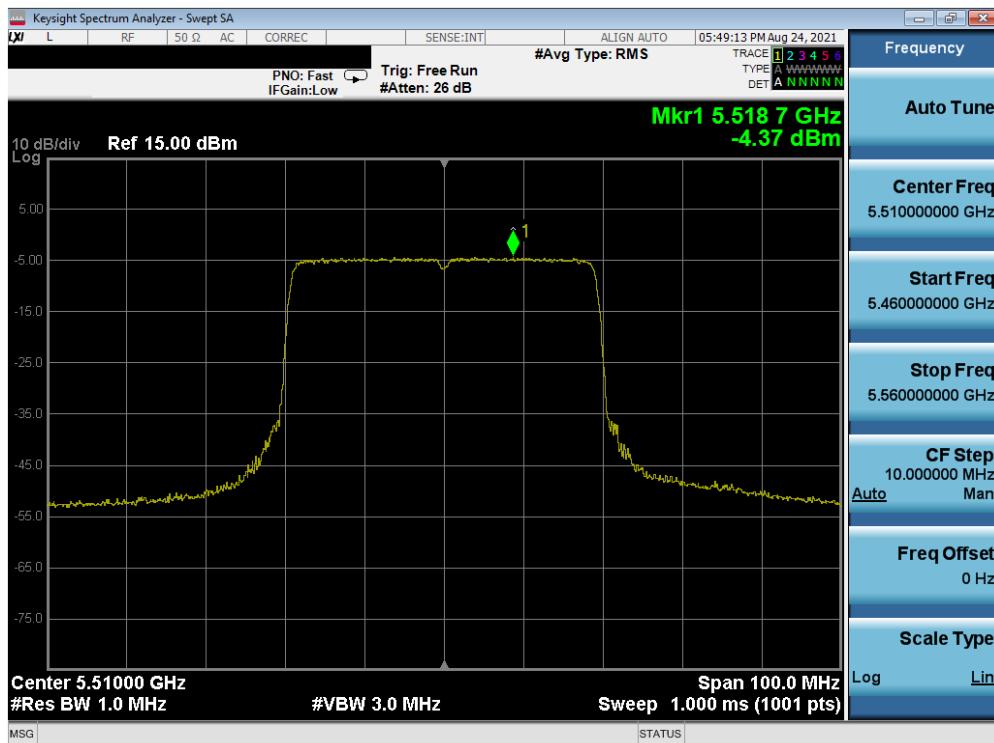


Plot 7-233. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 120)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 180 of 274

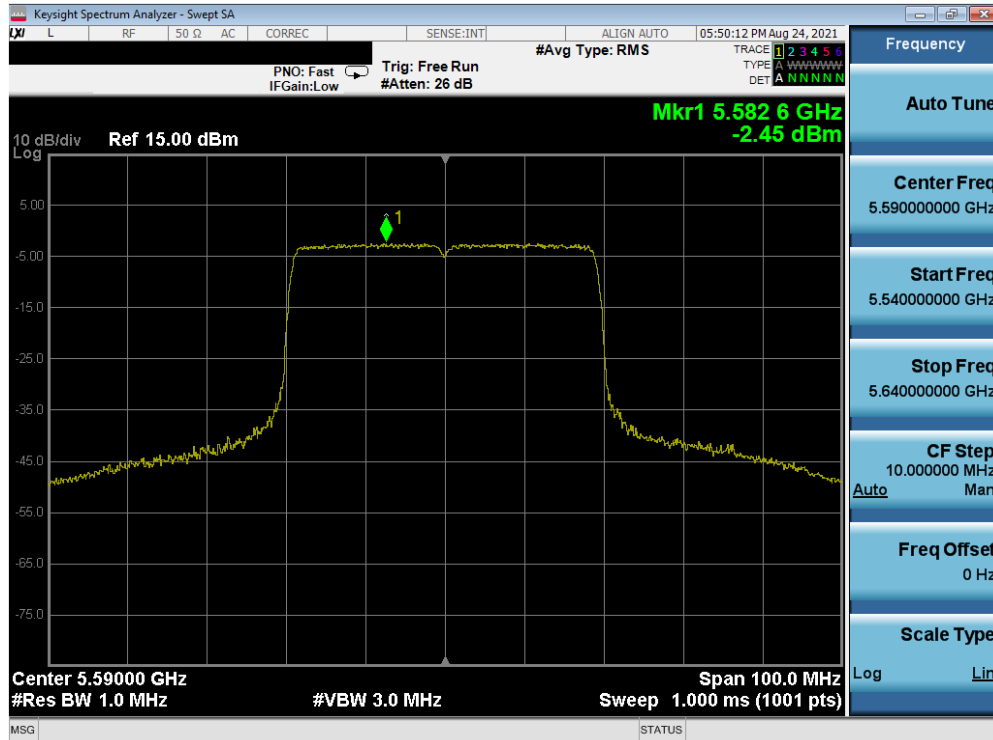


Plot 7-234. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 144)

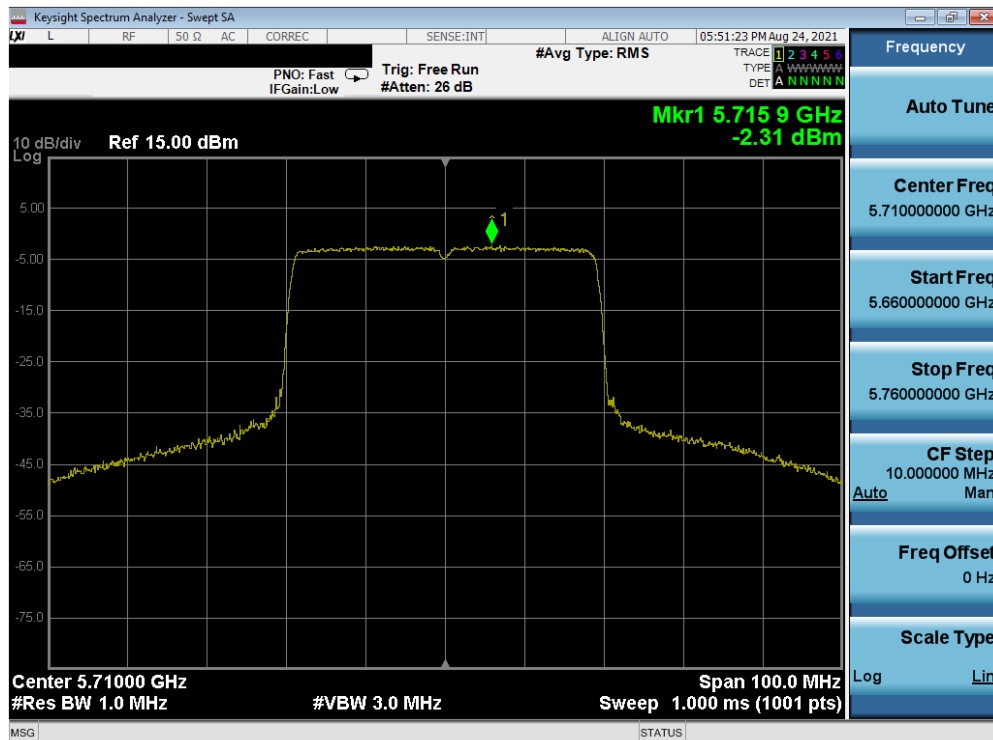


Plot 7-235. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 102)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 181 of 274

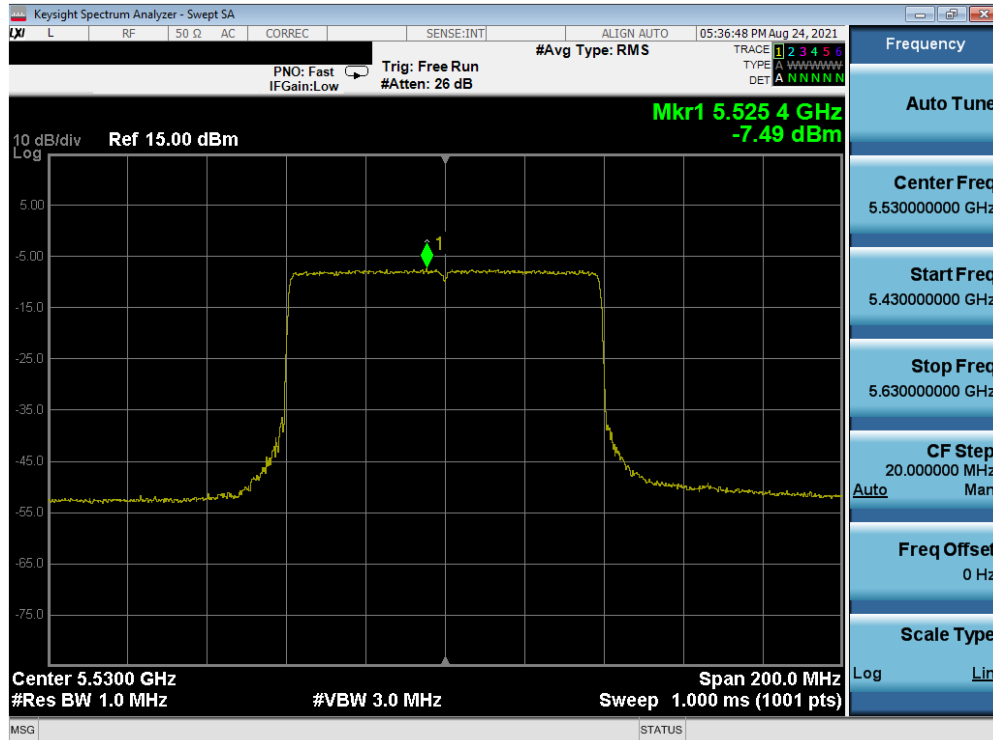


Plot 7-236. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 118)

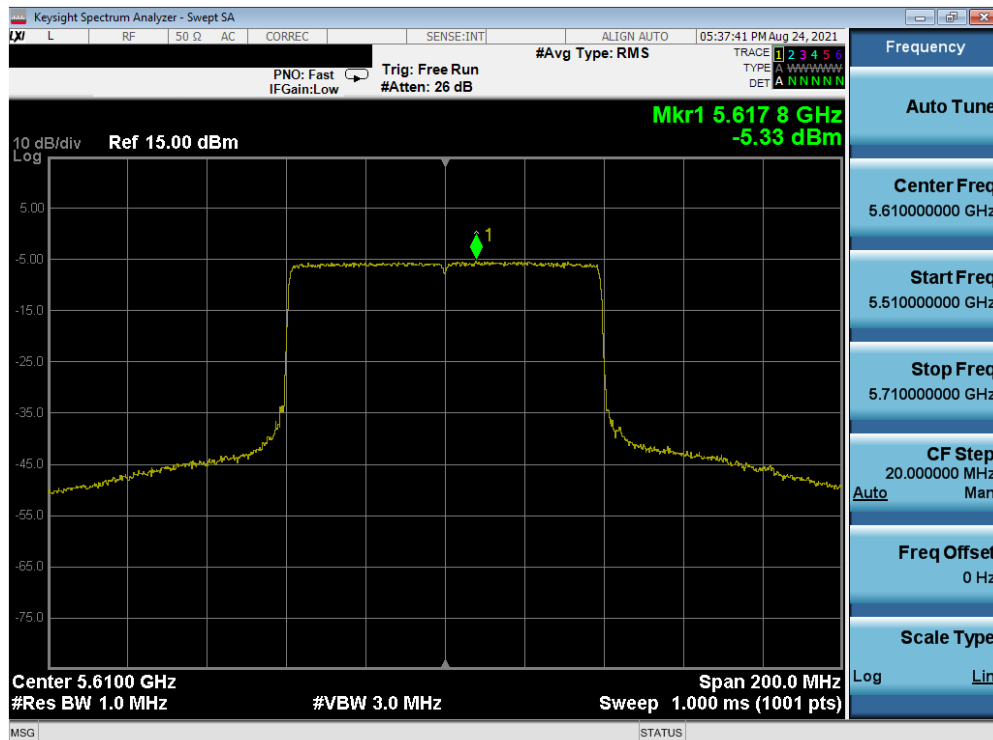


Plot 7-237. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 142)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 182 of 274

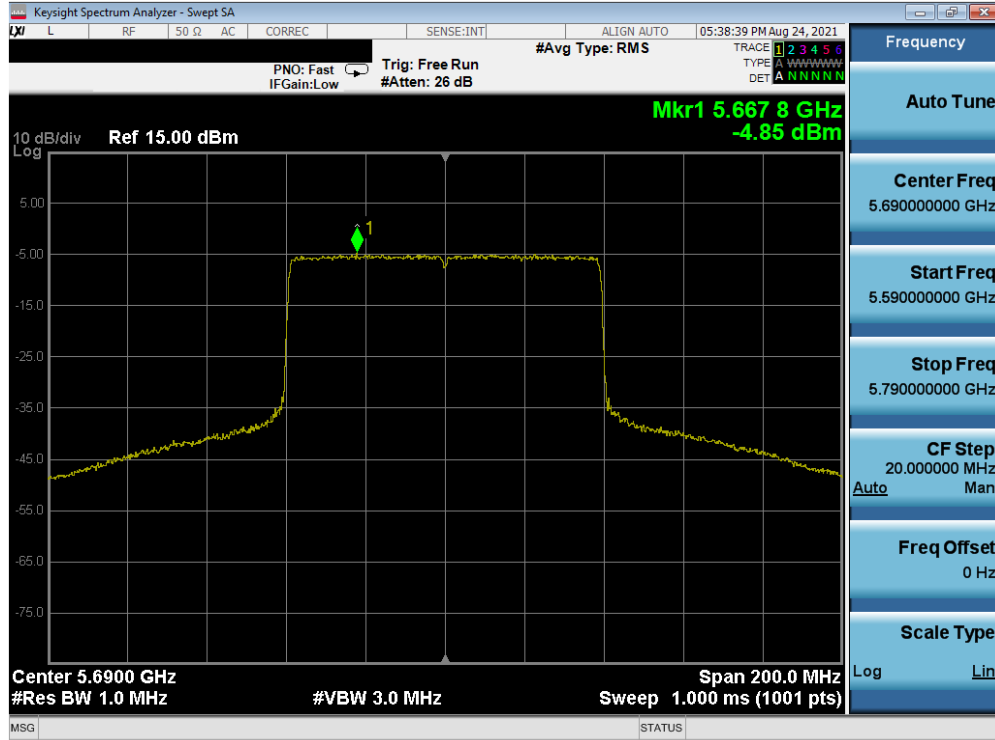


Plot 7-238. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 106)

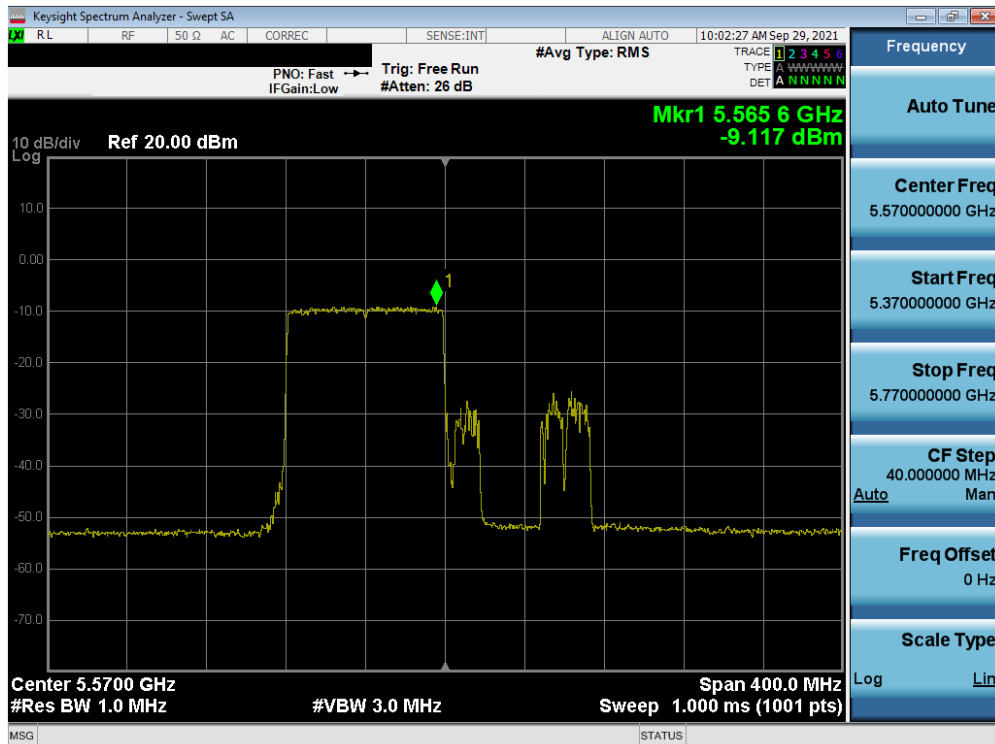


Plot 7-239. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 122)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 183 of 274

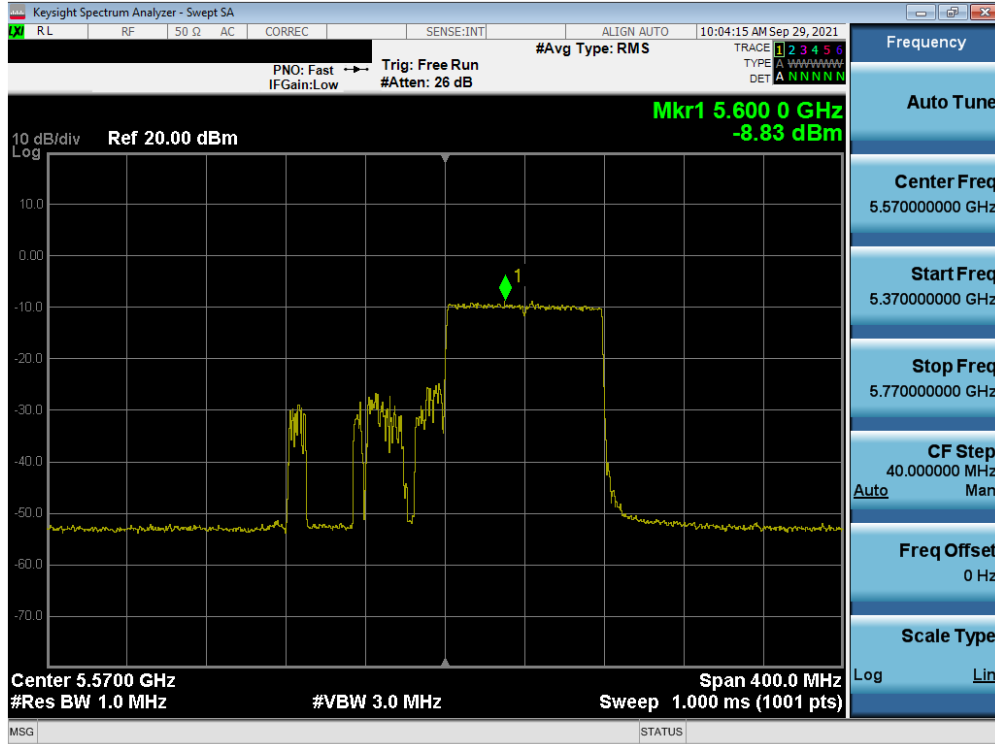


Plot 7-240. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 2C) – Ch. 138)



Plot 7-241. Power Spectral Density Plot SISO ANT2 (160MHz BW (L) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 184 of 274



Plot 7-242. Power Spectral Density Plot SISO ANT2 (160MHz BW (U) 802.11ax – Full Tones (UNII Band 2C) – Ch. 114)

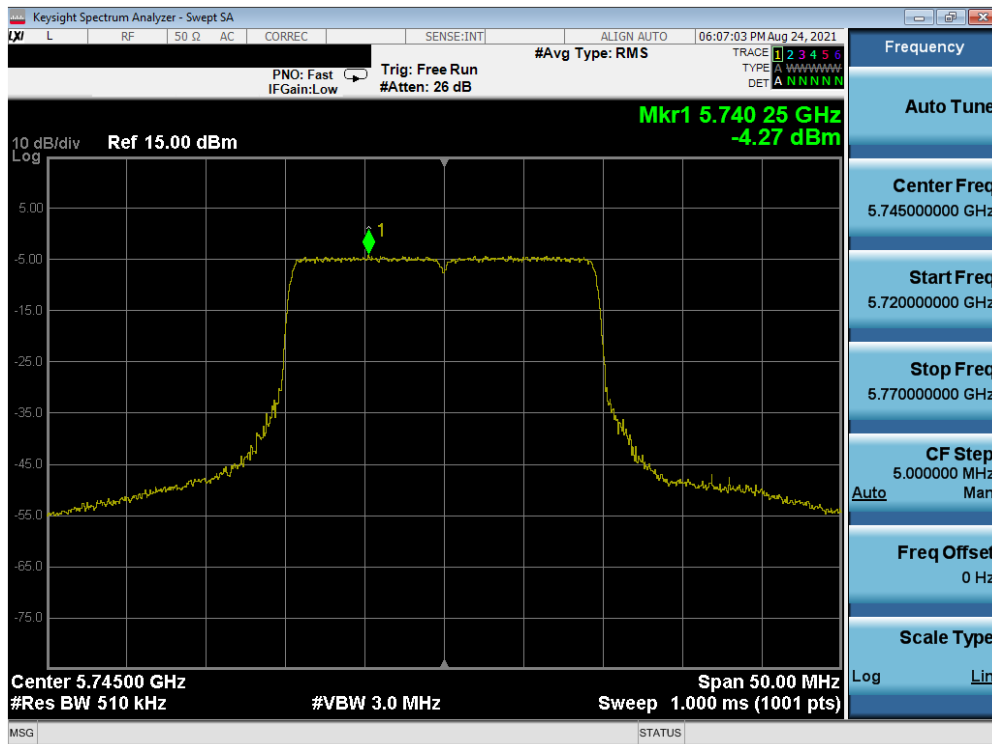
FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 185 of 274

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density	Margin [dB]
<b>Band 3</b>	5745	149	ax (20MHz)	242T	MCS0	-4.27	30.00	-34.27
	5785	157	ax (20MHz)	242T	MCS0	-2.43	30.00	-32.43
	5825	165	ax (20MHz)	242T	MCS0	-3.09	30.00	-33.09
	5755	151	ax (40MHz)	484T	MCS0	-7.07	30.00	-37.07
	5795	159	ax (40MHz)	484T	MCS0	-5.59	30.00	-35.59
	5775	155	ax (80MHz)	996T	MCS0	-9.98	30.00	-39.98

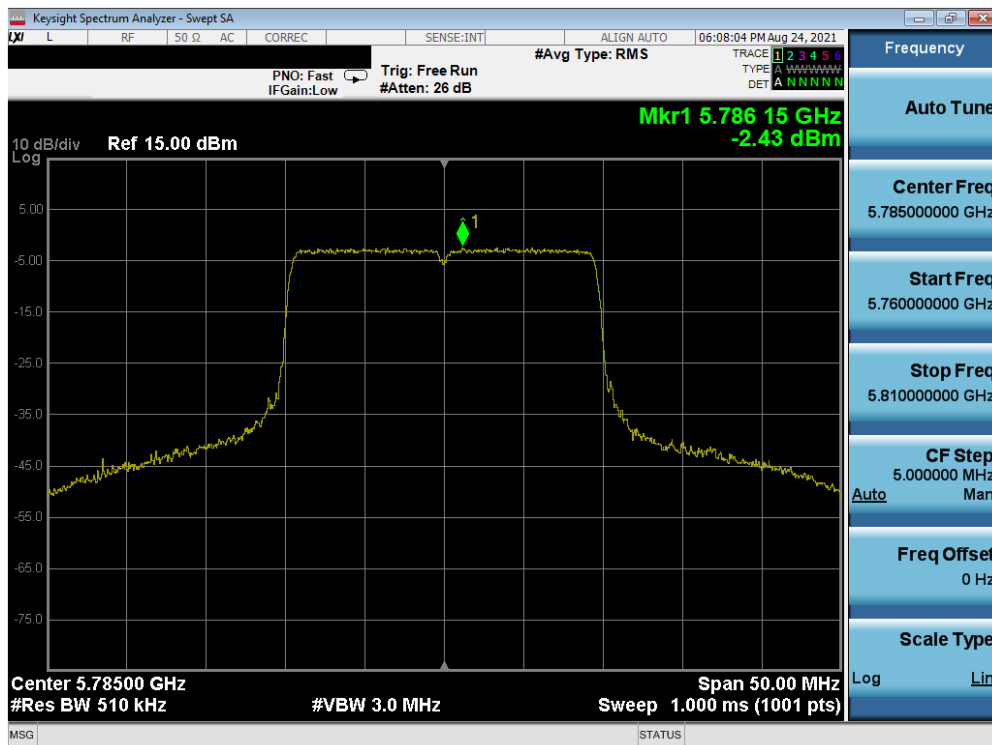
**Table 7-98. Band 3 Conducted Power Spectral Density Measurements SISO ANT2 (Full Tones)**

<b>FCC ID:</b> PY7-95324M	 <b>PCTEST</b> Proud to be part of 	<b>MEASUREMENT REPORT (CERTIFICATION)</b>	<b>SONY</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2108040087-09.PY7	<b>Test Dates:</b> 8/2/2021 - 9/10/2021	<b>EUT Type:</b> Portable Handset		Page 186 of 274



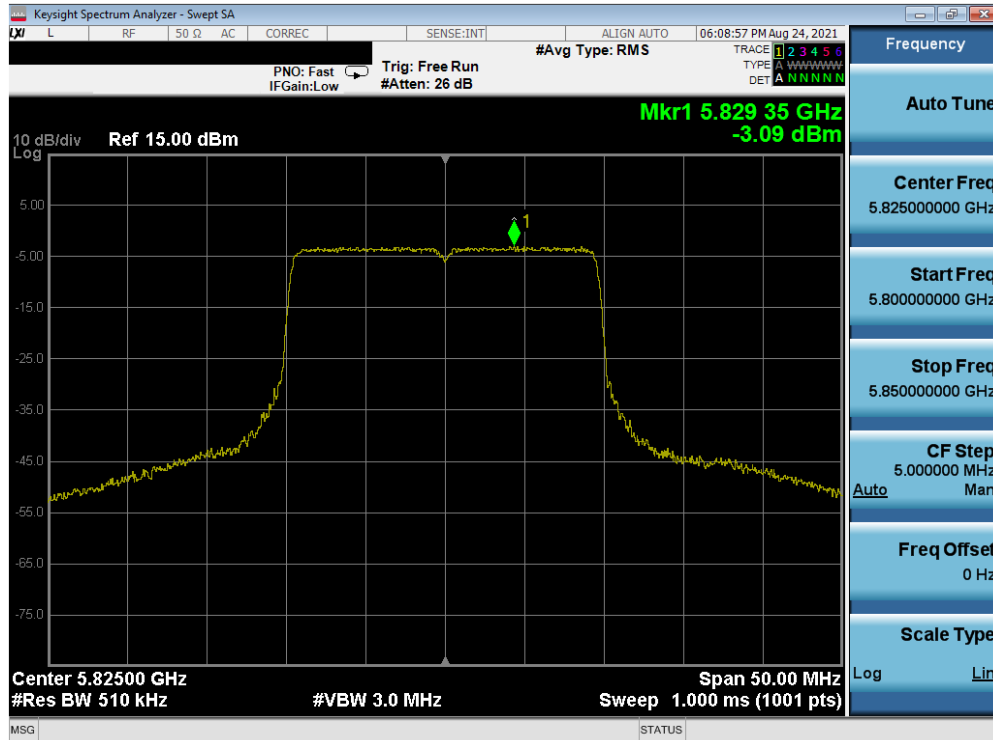


Plot 7-243. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 149)

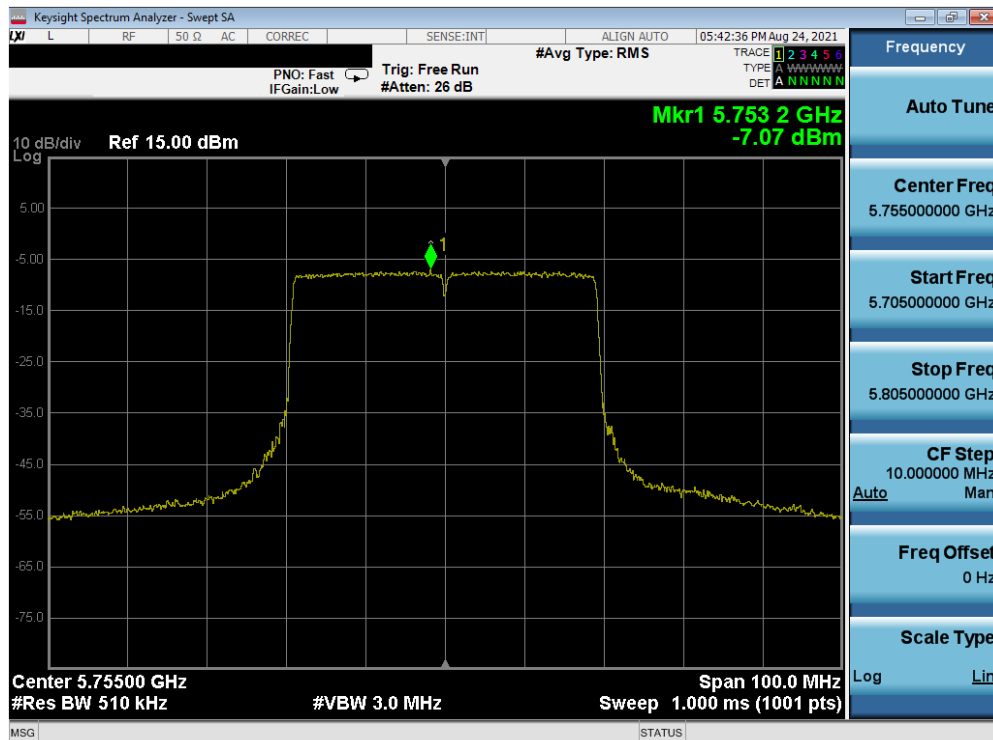


Plot 7-244. Power Spectral Density Plot SISO ANT2 (20MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 157)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 187 of 274

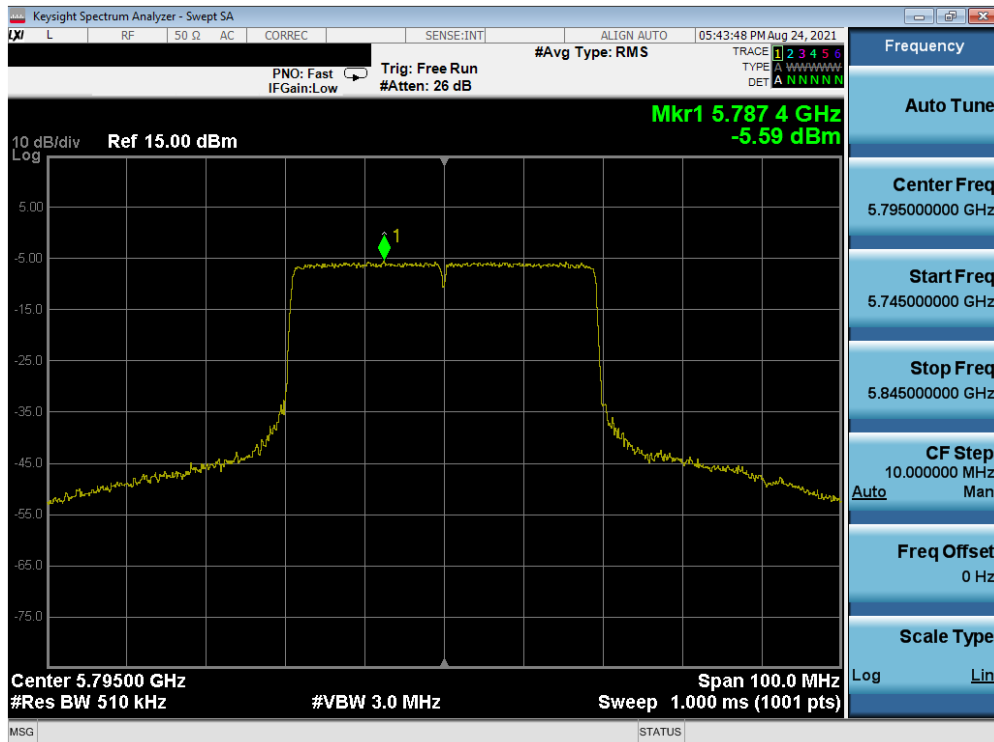


Plot 7-245. Power Spectral Density Plot SISO ANT2 (20 MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 165)

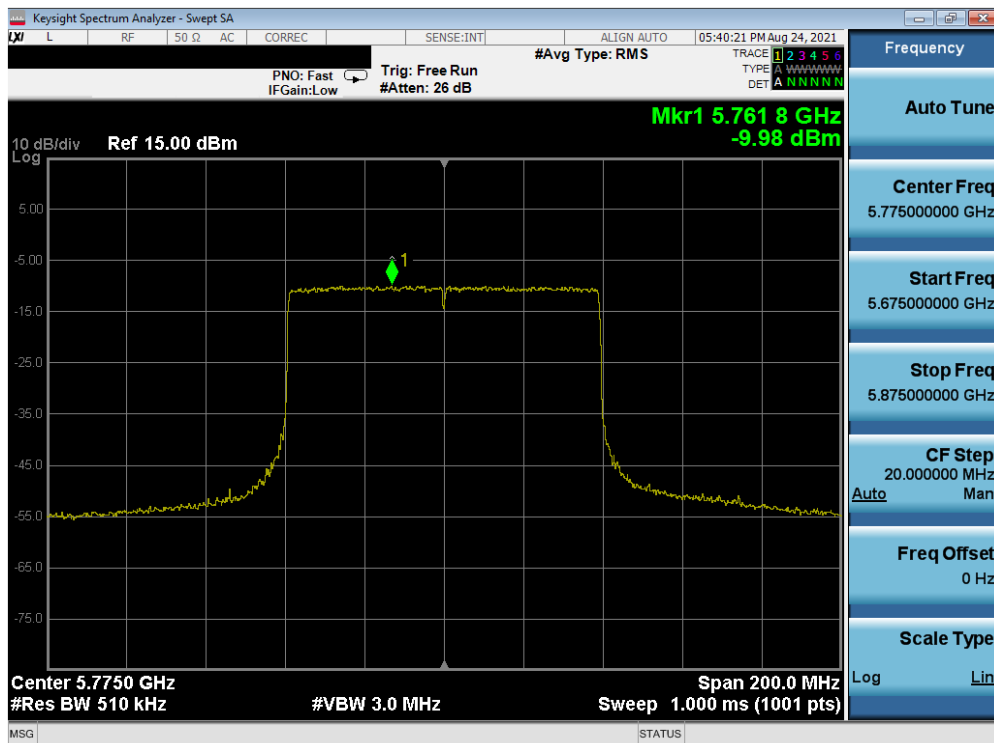


Plot 7-246. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 151)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 188 of 274



Plot 7-247. Power Spectral Density Plot SISO ANT2 (40MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 159)



Plot 7-248. Power Spectral Density Plot SISO ANT2 (80MHz BW 802.11ax – Full Tones (UNII Band 3) – Ch. 155)

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 189 of 274

## Summed MIMO Power Spectral Density Measurements (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	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	ax (20MHz)	26T	MCS0	7.27	3.99	8.94	11.00	-2.06
	5200	40	ax (20MHz)	26T	MCS0	7.60	4.10	9.20	11.00	-1.80
	5240	48	ax (20MHz)	26T	MCS0	7.52	3.92	9.10	11.00	-1.90
	5190	38	ax (40MHz)	26T	MCS0	7.05	6.13	9.63	11.00	-1.37
	5230	46	ax (40MHz)	26T	MCS0	7.23	6.23	9.77	11.00	-1.23
	5210	42	ax (80MHz)	26T	MCS0	7.60	5.14	9.55	11.00	-1.45
Band 1/2A	5250	50	ax (160 MHz L)	26T	MCS0	4.83	3.91	7.41	11.00	-3.59
	5250	50	ax (160 MHz U)	26T	MCS0	5.71	4.53	8.17	11.00	-2.83
Band 2A	5260	52	ax (20MHz)	26T	MCS0	7.49	5.36	9.56	11.00	-1.44
	5280	56	ax (20MHz)	26T	MCS0	5.83	4.36	8.17	11.00	-2.83
	5320	64	ax (20MHz)	26T	MCS0	6.57	5.36	9.02	11.00	-1.98
	5270	54	ax (40MHz)	26T	MCS0	7.28	5.58	9.52	11.00	-1.48
	5310	62	ax (40MHz)	26T	MCS0	6.75	5.37	9.13	11.00	-1.87
	5290	58	ax (80MHz)	26T	MCS0	7.35	5.27	9.45	11.00	-1.55
Band 2C	5500	100	ax (20MHz)	26T	MCS0	5.99	5.43	8.73	11.00	-2.27
	5600	120	ax (20MHz)	26T	MCS0	5.54	5.18	8.38	11.00	-2.62
	5720	144	ax (20MHz)	26T	MCS0	6.49	5.29	8.94	11.00	-2.06
	5510	102	ax (40MHz)	26T	MCS0	7.24	5.64	9.52	11.00	-1.48
	5590	118	ax (40MHz)	26T	MCS0	6.30	5.29	8.83	11.00	-2.17
	5710	142	ax (40MHz)	26T	MCS0	7.68	5.49	9.73	11.00	-1.27
	5530	106	ax (80MHz)	26T	MCS0	6.12	5.96	9.05	11.00	-1.95
	5610	122	ax (80MHz)	26T	MCS0	6.74	4.38	8.73	11.00	-2.27
	5690	138	ax (80MHz)	26T	MCS0	6.83	3.80	8.59	11.00	-2.41
	5570	114	ax (160 MHz L)	26T	MCS0	4.80	3.90	7.38	11.00	-3.62
	5570	114	ax (160 MHz U)	26T	MCS0	4.68	3.73	7.24	11.00	-3.76

Table 7-99. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	26T	MCS0	4.80	2.65	6.87	30.00	-23.13
	5785	157	ax (20MHz)	26T	MCS0	3.95	2.22	6.18	30.00	-23.82
	5825	165	ax (20MHz)	26T	MCS0	4.22	2.45	6.43	30.00	-23.57
	5755	151	ax (40MHz)	26T	MCS0	4.68	2.91	6.89	30.00	-23.11
	5795	159	ax (40MHz)	26T	MCS0	4.40	2.73	6.66	30.00	-23.34
	5775	155	ax (80MHz)	26T	MCS0	3.11	3.11	6.12	30.00	-23.88

Table 7-100. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (26 Tones)

FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 190 of 274

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	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	ax (20MHz)	242T	MCS0	0.72	0.56	3.65	11.00	-7.35
	5200	40	ax (20MHz)	242T	MCS0	1.00	0.45	3.74	11.00	-7.26
	5240	48	ax (20MHz)	242T	MCS0	0.43	0.20	3.33	11.00	-7.67
	5190	38	ax (40MHz)	484T	MCS0	-3.76	-4.06	-0.90	11.00	-11.90
	5230	46	ax (40MHz)	484T	MCS0	-1.94	-2.87	0.63	11.00	-10.37
	5210	42	ax (80MHz)	996T	MCS0	-6.71	-7.43	-4.04	11.00	-15.04
Band 1/2A	5250	50	ax (160 MHz L)	996T	MCS0	-9.30	-10.37	-6.79	11.00	-17.79
	5250	50	ax (160 MHz U)	996T	MCS0	-9.16	-10.04	-6.57	11.00	-17.57
Band 2A	5260	52	ax (20MHz)	242T	MCS0	0.42	0.04	3.24	11.00	-7.76
	5280	56	ax (20MHz)	242T	MCS0	0.56	-0.02	3.29	11.00	-7.71
	5320	64	ax (20MHz)	242T	MCS0	0.64	-0.01	3.34	11.00	-7.66
	5270	54	ax (40MHz)	484T	MCS0	-2.02	-2.88	0.58	11.00	-10.42
	5310	62	ax (40MHz)	484T	MCS0	-4.05	-4.67	-1.34	11.00	-12.34
	5290	58	ax (80MHz)	996T	MCS0	-6.60	-7.51	-4.02	11.00	-15.02
Band 2C	5500	100	ax (20MHz)	242T	MCS0	0.54	-0.04	3.27	11.00	-7.73
	5600	120	ax (20MHz)	242T	MCS0	0.29	0.44	3.38	11.00	-7.62
	5720	144	ax (20MHz)	242T	MCS0	0.50	0.71	3.62	11.00	-7.38
	5510	102	ax (40MHz)	484T	MCS0	-3.90	-4.37	-1.12	11.00	-12.12
	5590	118	ax (40MHz)	484T	MCS0	-1.89	-2.45	0.85	11.00	-10.15
	5710	142	ax (40MHz)	484T	MCS0	-2.08	-2.31	0.82	11.00	-10.18
	5530	106	ax (80MHz)	996T	MCS0	-7.07	-7.49	-4.27	11.00	-15.27
	5610	122	ax (80MHz)	996T	MCS0	-4.80	-5.33	-2.05	11.00	-13.05
	5690	138	ax (80MHz)	996T	MCS0	-4.65	-4.85	-1.74	11.00	-12.74
	5570	114	ax (160 MHz L)	996T	MCS0	-8.36	-9.12	-5.71	11.00	-16.71
	5570	114	ax (160 MHz U)	996T	MCS0	-8.52	-8.83	-5.66	11.00	-16.66

**Table 7-101. Bands 1, 2A, 2C MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)**

	Frequency [MHz]	Channel No.	802.11 Mode	Tones	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density	Margin [dB]
Band 3	5745	149	ax (20MHz)	242T	MCS0	-4.32	-4.27	-1.28	30.00	-31.28
	5785	157	ax (20MHz)	242T	MCS0	-1.87	-2.43	0.87	30.00	-29.13
	5825	165	ax (20MHz)	242T	MCS0	-2.56	-3.09	0.19	30.00	-29.81
	5755	151	ax (40MHz)	484T	MCS0	-6.77	-7.07	-3.90	30.00	-33.90
	5795	159	ax (40MHz)	484T	MCS0	-4.97	-5.59	-2.26	30.00	-32.26
	5775	155	ax (80MHz)	996T	MCS0	-9.94	-9.98	-6.95	30.00	-36.95

**Table 7-102. Band 3 MIMO Conducted Power Spectral Density Measurements MIMO (Full Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 191 of 274

**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 with reduced Antenna-1 and Antenna-2 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

**Sample MIMO Calculation:**

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Antenna-1 and 6.27 dBm for Antenna-2.

Antenna-1 + Antenna-2 = MIMO

$$(5.88 \text{ dBm} + 6.27 \text{ dBm}) = (3.87 \text{ mW} + 4.24 \text{ mW}) = 8.11 \text{ mW} = 9.09 \text{ dBm}$$

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical 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. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), 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 7-103 per Section 15.209 and RSS-Gen (8.9).***

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

**Table 7-103. 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

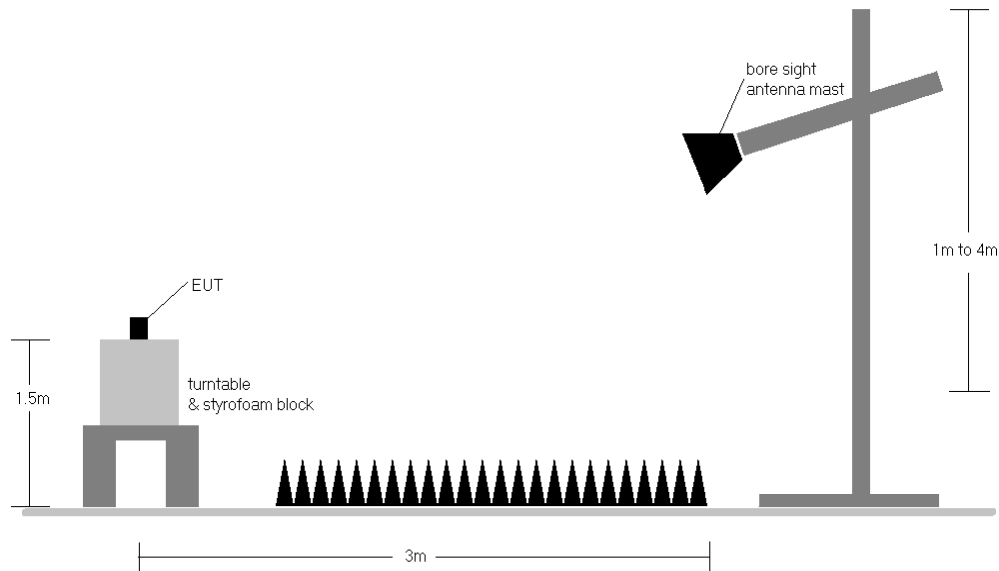
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### 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 7-103.
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 7-103. 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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

## 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]

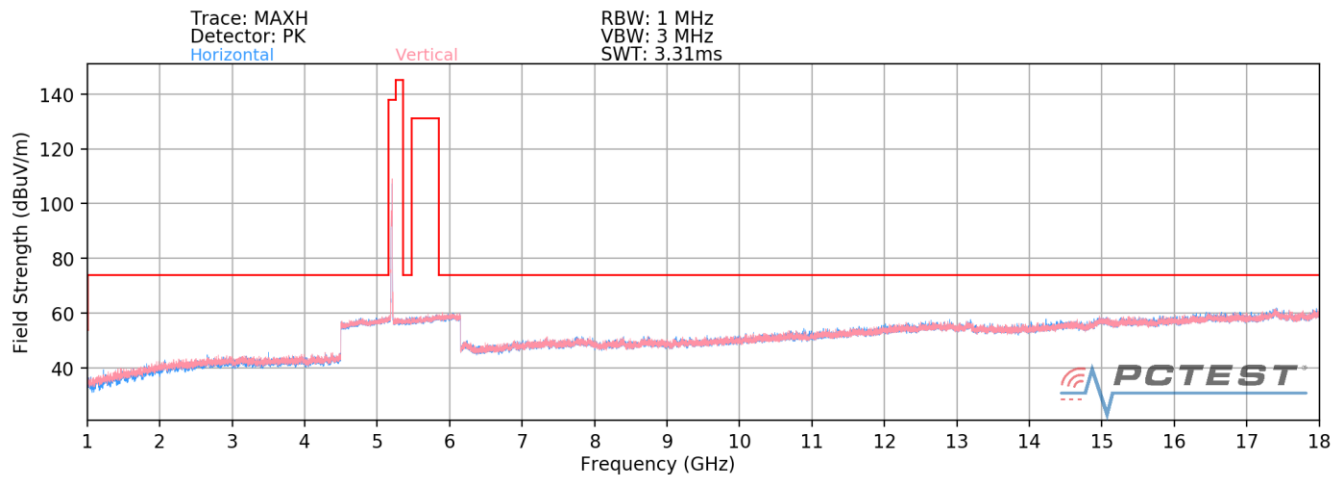
### Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:  
 Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

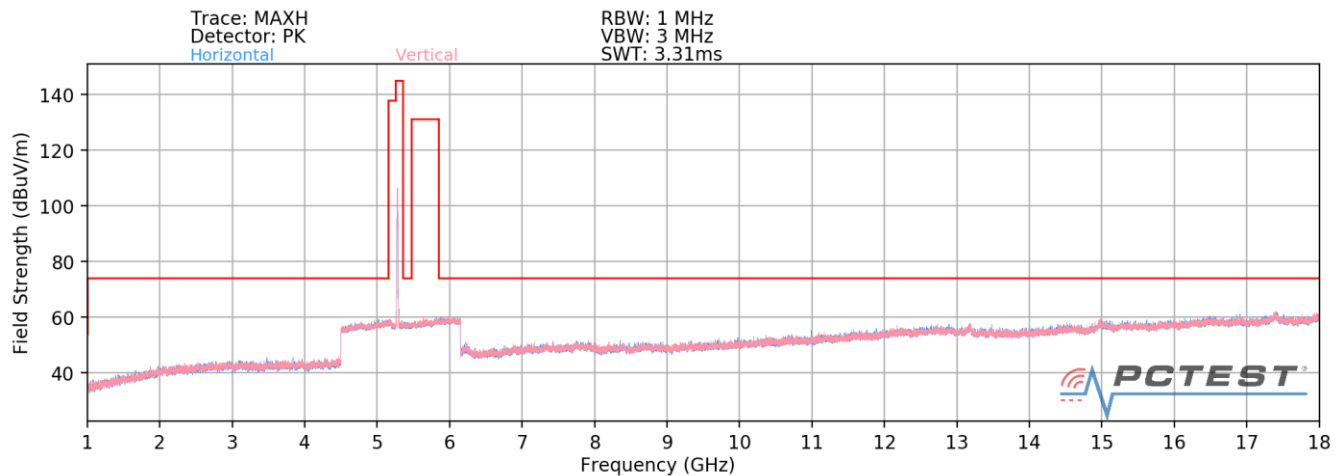
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## 7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

### 26 Tones

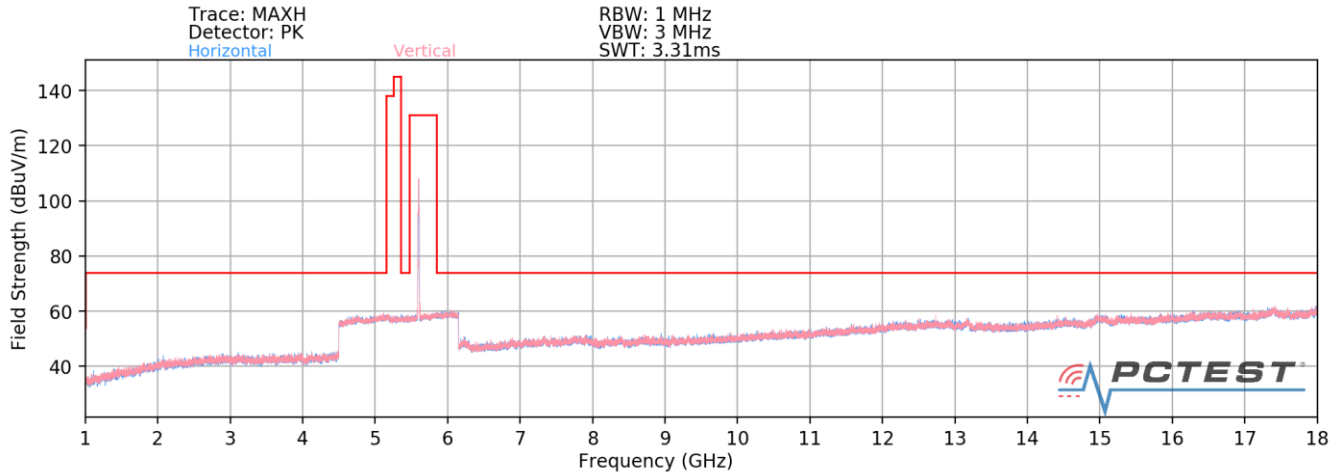


**Plot 7-249. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 26 Tones)**

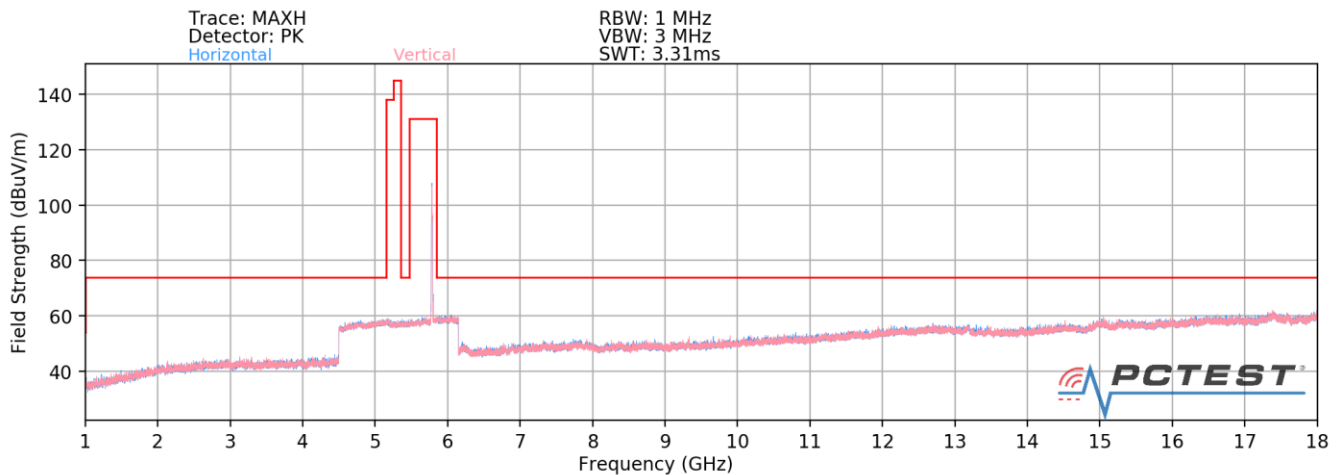


**Plot 7-250. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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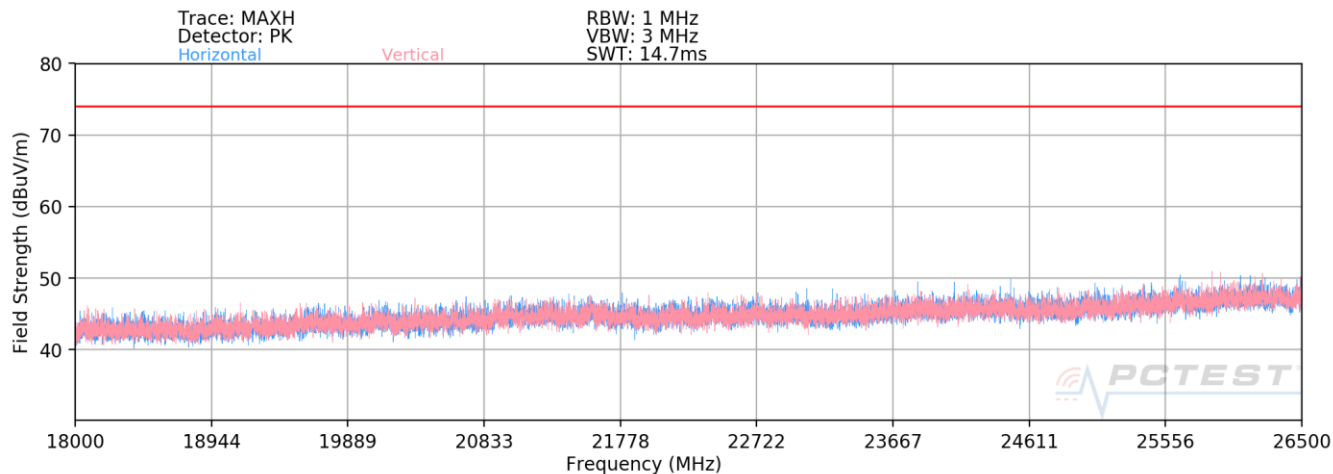
**Plot 7-251. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)**



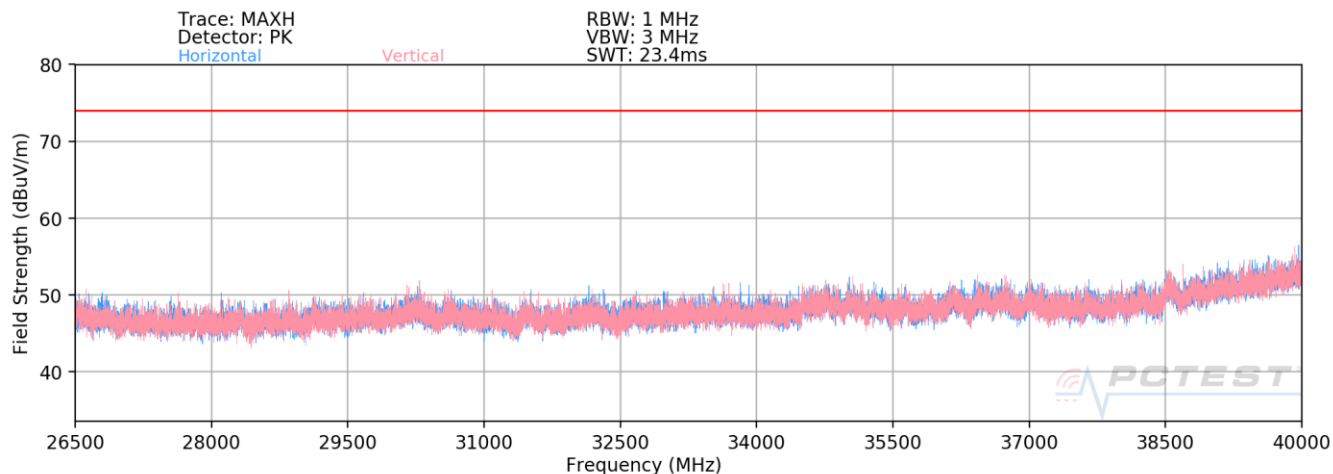
**Plot 7-252. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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## SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-253. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 26 Tones)**



**Plot 7-254. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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## SISO Antenna-1 Radiated Spurious Emission Measurements (26 Tones)

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	-	-	-68.58	16.59	0.00	55.01	68.20	-13.19
* 15540.00	Average	H	-	-	-80.38	23.05	0.00	49.67	53.98	-4.31
* 15540.00	Peak	H	-	-	-69.11	23.05	0.00	60.94	73.98	-13.04
* 20720.00	Average	H	-	-	-67.12	5.75	-9.54	36.08	53.98	-17.90
* 20720.00	Peak	H	-	-	-55.20	5.75	-9.54	48.00	73.98	-25.97
25900.00	Peak	H	-	-	-56.36	7.99	-9.54	49.09	68.20	-19.11

**Table 7-104. Radiated Measurements SISO ANT1 (26 Tones)**

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	-	-	-68.55	16.39	0.00	54.84	68.20	-13.36
* 15600.00	Average	H	-	-	-80.79	23.08	0.00	49.29	53.98	-4.69
* 15600.00	Peak	H	-	-	-69.14	23.08	0.00	60.94	73.98	-13.04
* 20800.00	Average	H	-	-	-66.93	5.54	-9.54	36.07	53.98	-17.91
* 20800.00	Peak	H	-	-	-56.07	5.54	-9.54	46.93	73.98	-27.05
26000.00	Peak	H	-	-	-56.78	8.12	-9.54	48.80	68.20	-19.40

**Table 7-105. Radiated Measurements SISO ANT1 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-68.93	16.47	0.00	54.54	68.20	-13.66
* 15720.00	Average	H	-	-	-80.91	23.18	0.00	49.27	53.98	-4.71
* 15720.00	Peak	H	-	-	-69.61	23.18	0.00	60.57	73.98	-13.41
* 20960.00	Average	H	-	-	-66.85	5.67	-9.54	36.28	53.98	-17.70
* 20960.00	Peak	H	-	-	-56.28	5.67	-9.54	46.85	73.98	-27.13
26200.00	Peak	H	-	-	-56.28	8.28	-9.54	49.46	68.20	-18.74

**Table 7-106. Radiated Measurements SISO ANT1 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	H	-	-	-68.75	16.82	0.00	55.07	68.20	-13.13
* 15780.00	Average	H	-	-	-81.44	23.23	0.00	48.79	53.98	-5.19
* 15780.00	Peak	H	-	-	-69.63	23.23	0.00	60.60	73.98	-13.38
* 21040.00	Average	H	-	-	-66.80	5.89	-9.54	36.55	53.98	-17.43
* 21040.00	Peak	H	-	-	-56.23	5.89	-9.54	47.12	73.98	-26.86
26300.00	Peak	H	-	-	-56.95	7.92	-9.54	48.43	68.20	-19.77

**Table 7-107. Radiated Measurements SISO ANT1 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	H	-	-	-69.17	17.16	0.00	54.99	68.20	-13.21
* 15840.00	Average	H	-	-	-81.11	23.33	0.00	49.22	53.98	-4.75
* 15840.00	Peak	H	-	-	-70.04	23.33	0.00	60.29	73.98	-13.68
* 21120.00	Average	H	-	-	-66.47	6.25	-9.54	37.24	53.98	-16.74
* 21120.00	Peak	H	-	-	-56.41	6.25	-9.54	47.30	73.98	-26.68
26400.00	Peak	H	-	-	-55.61	7.92	-9.54	49.77	68.20	-18.43

**Table 7-108. Radiated Measurements SISO ANT1 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	H	-	-	-80.84	17.05	0.00	43.21	53.98	-10.77
* 10640.00	Peak	H	-	-	-69.13	17.05	0.00	54.92	73.98	-19.06
* 15960.00	Average	H	-	-	-81.39	23.64	0.00	49.25	53.98	-4.73
* 15960.00	Peak	H	-	-	-69.41	23.64	0.00	61.23	73.98	-12.75
* 21280.00	Average	H	-	-	-66.47	6.30	-9.54	37.28	53.98	-16.69
* 21280.00	Peak	H	-	-	-55.94	6.30	-9.54	47.82	73.98	-26.16
26600.00	Peak	H	-	-	-54.95	8.04	-9.54	50.55	68.20	-17.65

**Table 7-109. Radiated Measurements SISO ANT1 (26 Tones)**

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Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	H	-	-	-80.16	17.66	0.00	44.50	53.98	-9.48
* 11000.00	Peak	H	-	-	-68.52	17.66	0.00	56.14	73.98	-17.84
16500.00	Peak	H	-	-	-69.87	24.74	0.00	61.87	68.20	-6.33
22000.00	Peak	H	-	-	-55.06	6.07	-9.54	48.47	68.20	-19.73
27500.00	Peak	H	-	-	-55.42	7.30	-9.54	49.33	68.20	-18.87

**Table 7-110. Radiated Measurements SISO ANT1 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5600MHz  
Channel: 120

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	H	-	-	-80.40	17.46	0.00	44.06	53.98	-9.92
* 11200.00	Peak	H	-	-	-68.84	17.46	0.00	55.62	73.98	-18.36
16800.00	Peak	H	-	-	-69.62	24.80	0.00	62.18	68.20	-6.02
* 22400.00	Average	H	-	-	-66.90	6.17	-9.54	36.72	53.98	-17.26
* 22400.00	Peak	H	-	-	-55.39	6.17	-9.54	48.23	73.98	-25.75
28000.00	Peak	H	-	-	-55.33	7.41	-9.54	49.54	68.20	-18.66

**Table 7-111. Radiated Measurements SISO ANT1 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5720MHz  
Channel: 144

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	H	-	-	-80.93	18.11	0.00	44.18	53.98	-9.80
* 11440.00	Peak	H	-	-	-69.45	18.11	0.00	55.66	73.98	-18.32
17160.00	Peak	H	-	-	-69.12	24.84	0.00	62.72	68.20	-5.48
* 22880.00	Average	H	-	-	-66.78	6.33	-9.54	37.01	53.98	-16.97
* 22880.00	Peak	H	-	-	-56.24	6.33	-9.54	47.55	73.98	-26.43
28600.00	Peak	H	-	-	-56.29	7.87	-9.54	49.04	68.20	-19.16

**Table 7-112. Radiated Measurements SISO ANT1 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	H	-	-	-81.29	18.05	0.00	43.76	53.98	-10.22
* 11490.00	Peak	H	-	-	-69.29	18.05	0.00	55.76	73.98	-18.22
17235.00	Peak	H	-	-	-68.88	25.61	0.00	63.73	68.20	-4.47
* 22980.00	Average	H	-	-	-67.12	6.35	-9.54	36.69	53.98	-17.29
* 22980.00	Peak	H	-	-	-54.83	6.35	-9.54	48.98	73.98	-25.00
28725.00	Peak	H	-	-	-55.38	7.99	-9.54	50.07	68.20	-18.13

**Table 7-113. Radiated Measurements SISO ANT1 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
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Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	H	-	-	-80.63	18.08	0.00	44.45	53.98	-9.53
* 11570.00	Peak	H	-	-	-69.17	18.08	0.00	55.91	73.98	-18.07
17355.00	Peak	H	-	-	-69.45	26.20	0.00	63.75	68.20	-4.45
23140.00	Peak	H	-	-	-56.49	6.38	-9.54	47.34	68.20	-20.86
28925.00	Peak	H	-	-	-55.93	7.85	-9.54	49.38	68.20	-18.82

**Table 7-114. Radiated Measurements SISO ANT1 (26 Tones)**

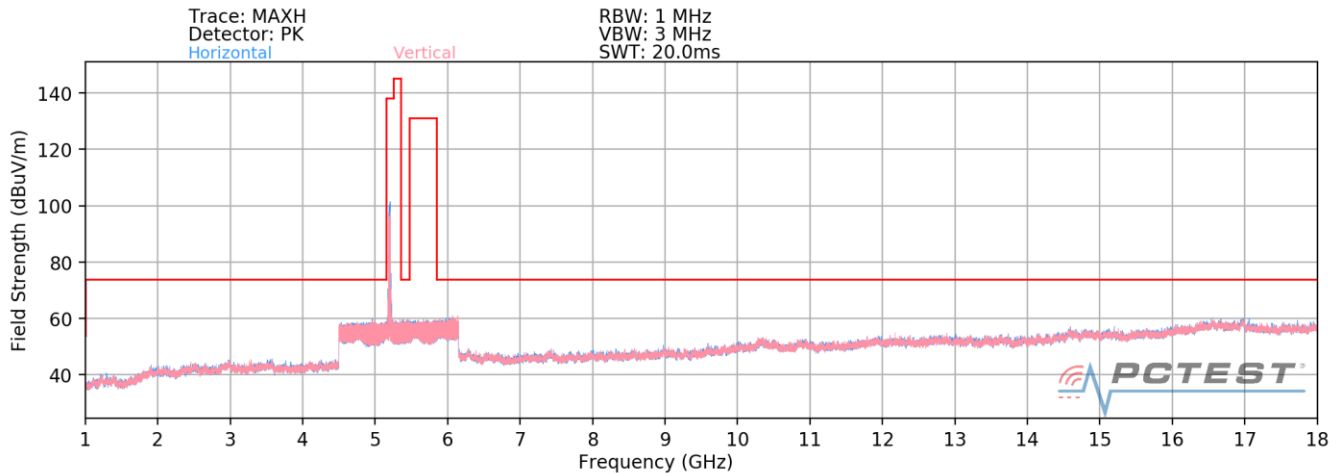
Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165

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	H	-	-	-81.00	18.09	0.00	44.09	53.98	-9.89
* 11650.00	Peak	H	-	-	-69.42	18.09	0.00	55.67	73.98	-18.31
17475.00	Peak	H	-	-	-69.69	25.92	0.00	63.23	68.20	-4.97
23300.00	Peak	H	-	-	-56.05	6.41	-9.54	47.82	68.20	-20.38
29125.00	Peak	H	-	-	-55.92	8.35	-9.54	49.88	68.20	-18.32

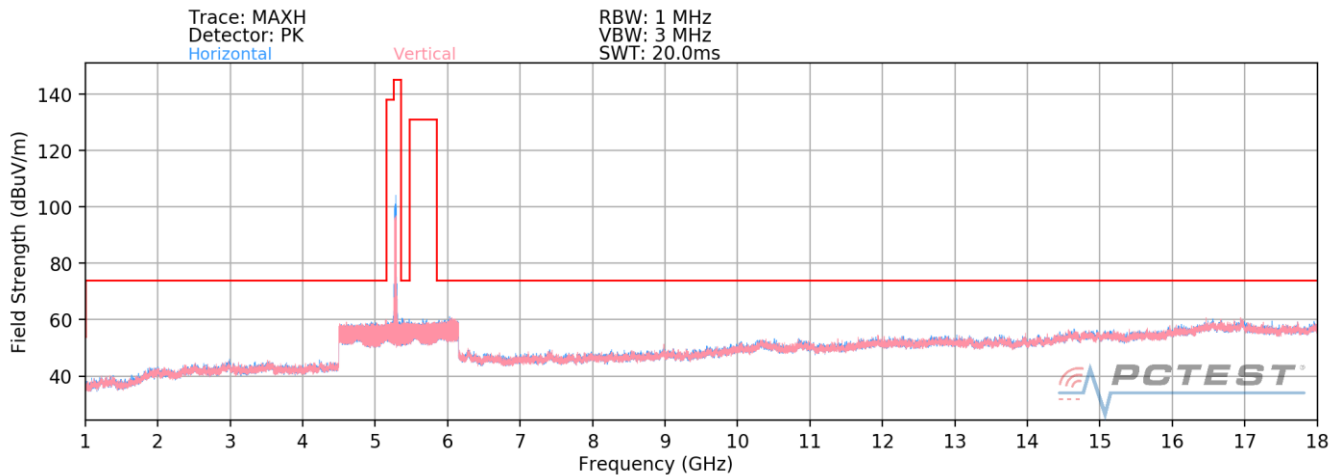
**Table 7-115. Radiated Measurements SISO ANT1 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 204 of 274

## 242 Tones

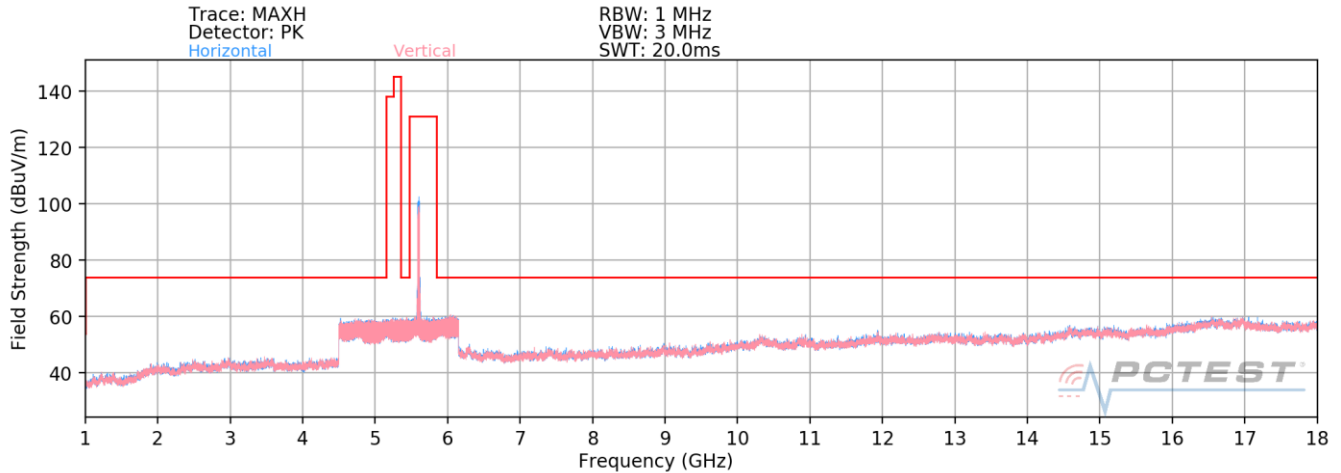


**Plot 7-255. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)**

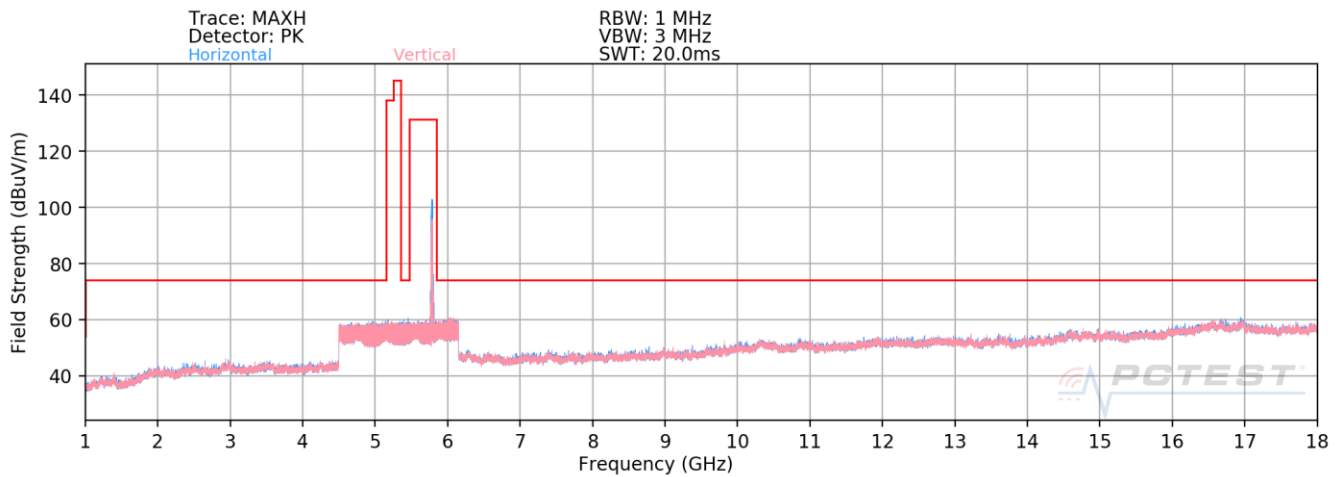


**Plot 7-256. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 205 of 274



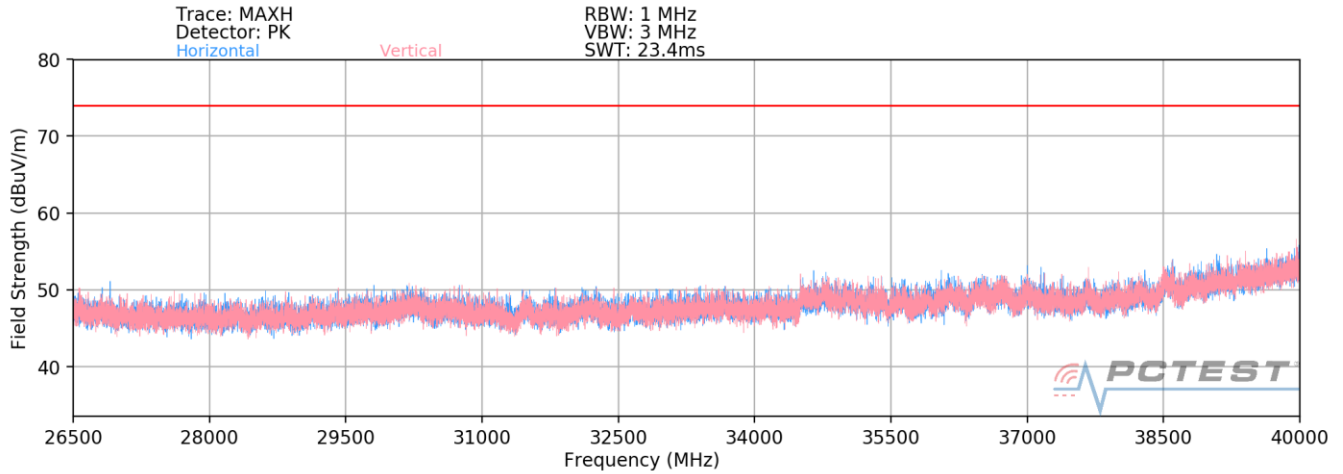
**Plot 7-257. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)**



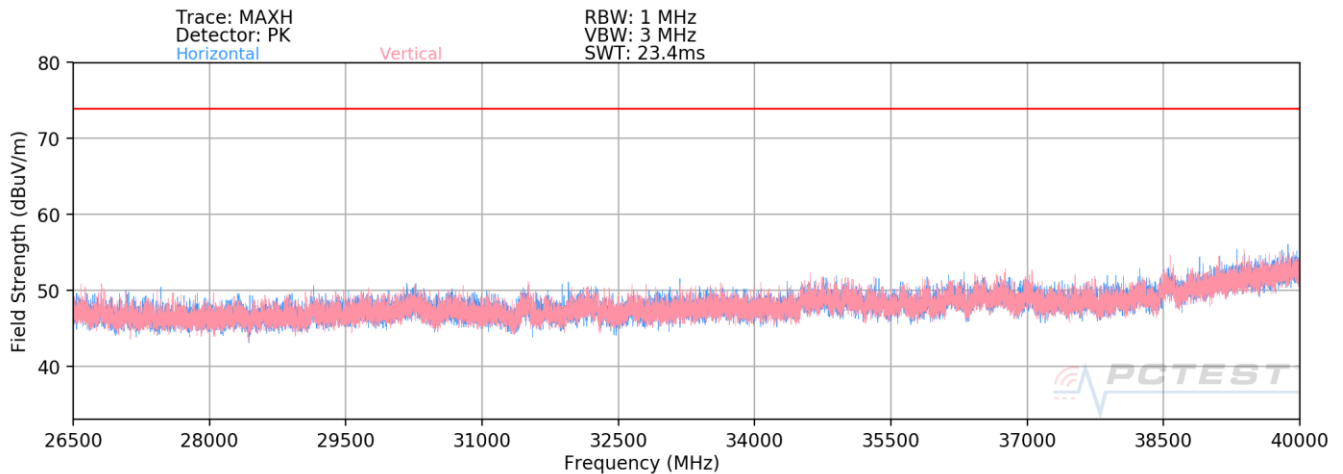
**Plot 7-258. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 206 of 274

## SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-259. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones)**



**Plot 7-260. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 207 of 274

## SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

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

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	-	-	-69.40	16.59	0.00	54.19	68.20	-14.01
* 15540.00	Average	H	-	-	-81.00	23.05	0.00	49.05	53.98	-4.93
* 15540.00	Peak	H	-	-	-69.64	23.05	0.00	60.41	73.98	-13.57
* 20720.00	Average	H	-	-	-66.78	5.75	-9.54	36.42	53.98	-17.55
* 20720.00	Peak	H	-	-	-56.60	5.75	-9.54	46.61	73.98	-27.37
25900.00	Peak	H	-	-	-55.36	7.99	-9.54	50.09	68.20	-18.11

**Table 7-116. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	-	-	-69.10	16.39	0.00	54.29	68.20	-13.91
* 15600.00	Average	H	-	-	-81.40	23.08	0.00	48.68	53.98	-5.30
* 15600.00	Peak	H	-	-	-69.97	23.08	0.00	60.11	73.98	-13.87
* 20800.00	Average	H	-	-	-66.68	5.54	-9.54	36.32	53.98	-17.66
* 20800.00	Peak	H	-	-	-56.23	5.54	-9.54	46.77	73.98	-27.21
26000.00	Peak	H	-	-	-56.09	8.12	-9.54	49.49	68.20	-18.71

**Table 7-117. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5240MHz  
Channel: 48

FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 208 of 274

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	-	-	-69.33	16.47	0.00	54.14	68.20	-14.06
* 15720.00	Average	H	-	-	-81.71	23.18	0.00	48.47	53.98	-5.51
* 15720.00	Peak	H	-	-	-68.99	23.18	0.00	61.19	73.98	-12.79
* 20960.00	Average	H	-	-	-66.72	5.67	-9.54	36.41	53.98	-17.57
* 20960.00	Peak	H	-	-	-55.61	5.67	-9.54	47.52	73.98	-26.46
26200.00	Peak	H	-	-	-55.67	8.28	-9.54	50.07	68.20	-18.13

**Table 7-118. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	H	-	-	-69.17	16.82	0.00	54.65	68.20	-13.55
* 15780.00	Average	H	-	-	-81.23	23.23	0.00	49.00	53.98	-4.98
* 15780.00	Peak	H	-	-	-69.88	23.23	0.00	60.35	73.98	-13.63
* 21040.00	Average	H	-	-	-66.60	5.89	-9.54	36.75	53.98	-17.23
* 21040.00	Peak	H	-	-	-55.52	5.89	-9.54	47.82	73.98	-26.16
26300.00	Peak	H	-	-	-55.88	7.92	-9.54	49.50	68.20	-18.70

**Table 7-119. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	H	-	-	-69.22	17.16	0.00	54.94	68.20	-13.26
* 15840.00	Average	H	-	-	-80.78	23.33	0.00	49.55	53.98	-4.42
* 15840.00	Peak	H	-	-	-69.99	23.33	0.00	60.34	73.98	-13.63
* 21120.00	Average	H	-	-	-66.74	6.25	-9.54	36.97	53.98	-17.01
* 21120.00	Peak	H	-	-	-54.95	6.25	-9.54	48.76	73.98	-25.22
26400.00	Peak	H	-	-	-55.52	7.92	-9.54	49.85	68.20	-18.35

**Table 7-120. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)

FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 209 of 274

Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	H	-	-	-80.61	17.05	0.00	43.44	53.98	-10.54
* 10640.00	Peak	H	-	-	-69.31	17.05	0.00	54.74	73.98	-19.24
* 15960.00	Average	H	-	-	-81.41	23.64	0.00	49.23	53.98	-4.75
* 15960.00	Peak	H	-	-	-69.21	23.64	0.00	61.43	73.98	-12.55
* 21280.00	Average	H	-	-	-66.68	6.30	-9.54	37.08	53.98	-16.90
* 21280.00	Peak	H	-	-	-56.23	6.30	-9.54	47.53	73.98	-26.45
26600.00	Peak	H	-	-	-55.31	8.04	-9.54	50.19	68.20	-18.01

**Table 7-121. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	H	-	-	-80.10	17.66	0.00	44.56	53.98	-9.42
* 11000.00	Peak	H	-	-	-68.97	17.66	0.00	55.69	73.98	-18.29
16500.00	Peak	H	-	-	-69.99	24.74	0.00	61.75	68.20	-6.45
22000.00	Peak	H	-	-	-56.46	6.07	-9.54	47.08	68.20	-21.12
27500.00	Peak	H	-	-	-55.90	7.30	-9.54	48.85	68.20	-19.35

**Table 7-122. Radiated Measurements SISO ANT1 (242 Tones)**

FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 210 of 274



Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5600MHz  
Channel: 120

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	H	-	-	-80.31	17.46	0.00	44.15	53.98	-9.83
* 11200.00	Peak	H	-	-	-68.14	17.46	0.00	56.32	73.98	-17.66
16800.00	Peak	H	-	-	-69.71	24.80	0.00	62.09	68.20	-6.11
* 22400.00	Average	H	-	-	-66.99	6.17	-9.54	36.63	53.98	-17.34
* 22400.00	Peak	H	-	-	-55.49	6.17	-9.54	48.14	73.98	-25.84
28000.00	Peak	H	-	-	-56.22	7.41	-9.54	48.65	68.20	-19.55

**Table 7-123. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5720MHz  
Channel: 144

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	H	-	-	-81.02	18.11	0.00	44.09	53.98	-9.89
* 11440.00	Peak	H	-	-	-69.64	18.11	0.00	55.47	73.98	-18.51
17160.00	Peak	H	-	-	-69.23	24.84	0.00	62.61	68.20	-5.59
* 22880.00	Average	H	-	-	-67.27	6.33	-9.54	36.52	53.98	-17.46
* 22880.00	Peak	H	-	-	-56.05	6.33	-9.54	47.74	73.98	-26.24
28600.00	Peak	H	-	-	-55.87	7.87	-9.54	49.46	68.20	-18.74

**Table 7-124. Radiated Measurements SISO ANT1 (242 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 211 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	H	-	-	-81.31	18.05	0.00	43.74	53.98	-10.24
* 11490.00	Peak	H	-	-	-69.31	18.05	0.00	55.74	73.98	-18.24
17235.00	Peak	H	-	-	-69.71	25.61	0.00	62.90	68.20	-5.30
* 22980.00	Average	H	-	-	-67.03	6.35	-9.54	36.78	53.98	-17.20
* 22980.00	Peak	H	-	-	-56.59	6.35	-9.54	47.22	73.98	-26.76
28725.00	Peak	H	-	-	-56.43	7.99	-9.54	49.01	68.20	-19.19

**Table 7-125. Radiated Measurements SISO ANT1 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	H	-	-	-80.61	18.08	0.00	44.47	53.98	-9.51
* 11570.00	Peak	H	-	-	-69.21	18.08	0.00	55.87	73.98	-18.11
17355.00	Peak	H	-	-	-69.11	26.20	0.00	64.09	68.20	-4.11
23140.00	Peak	H	-	-	-55.71	6.38	-9.54	48.13	68.20	-20.07
28925.00	Peak	H	-	-	-55.87	7.85	-9.54	49.44	68.20	-18.76

**Table 7-126. Radiated Measurements SISO ANT1 (242 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 212 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165

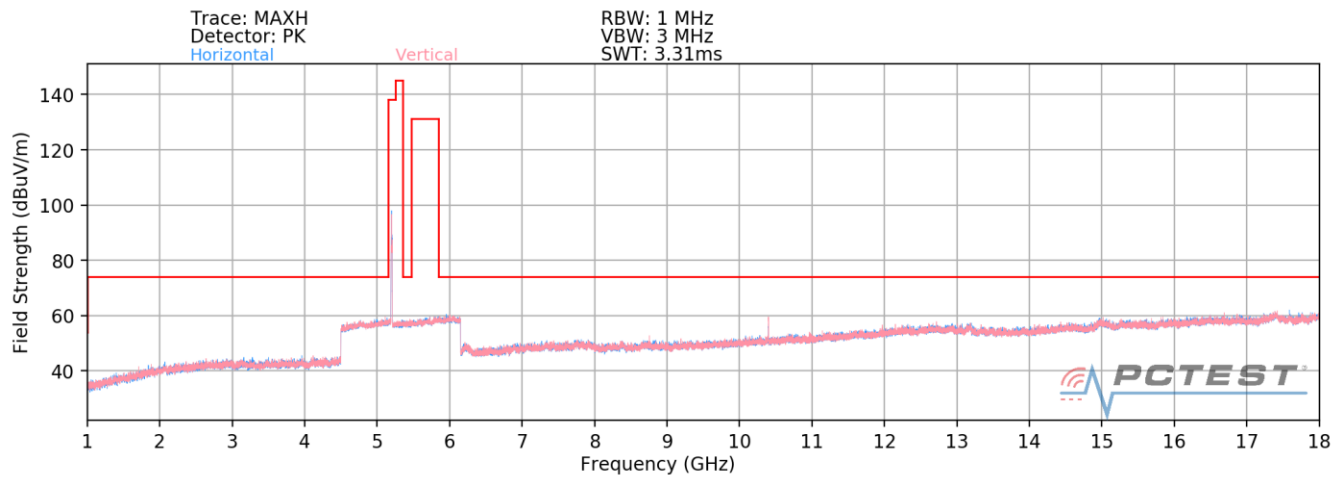
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-81.03	18.09	0.00	44.06	53.98	-9.92
* 11650.00	Peak	H	-	-	-69.56	18.09	0.00	55.53	73.98	-18.45
17475.00	Peak	H	-	-	-69.88	25.92	0.00	63.04	68.20	-5.16
23300.00	Peak	H	-	-	-55.48	6.41	-9.54	48.38	68.20	-19.82
29125.00	Peak	H	-	-	-55.65	8.35	-9.54	50.15	68.20	-18.05

**Table 7-127. Radiated Measurements SISO ANT1 (242 Tones)**

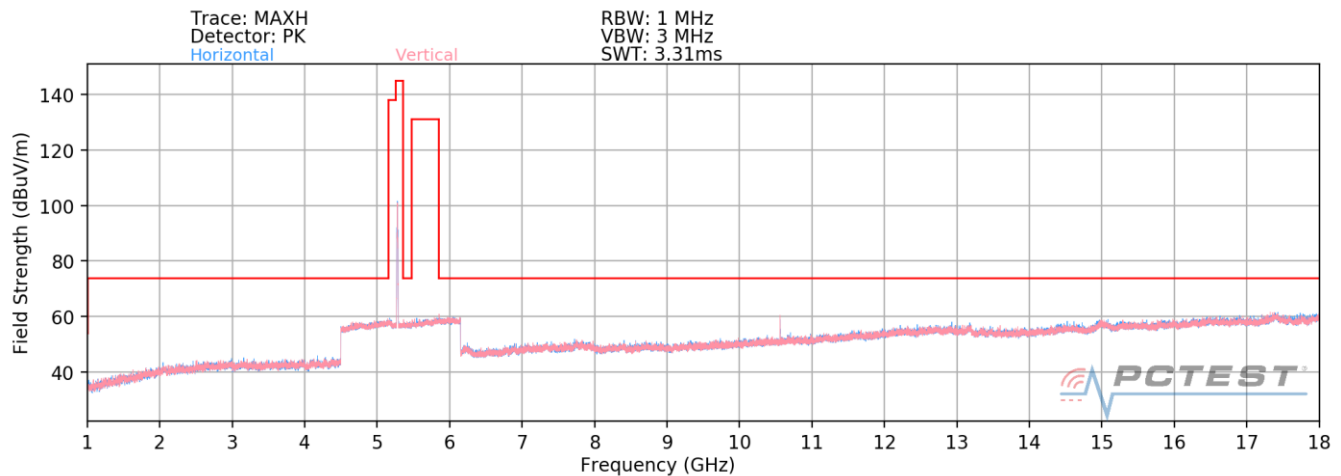
FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 213 of 274

## 7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

### 26 Tones

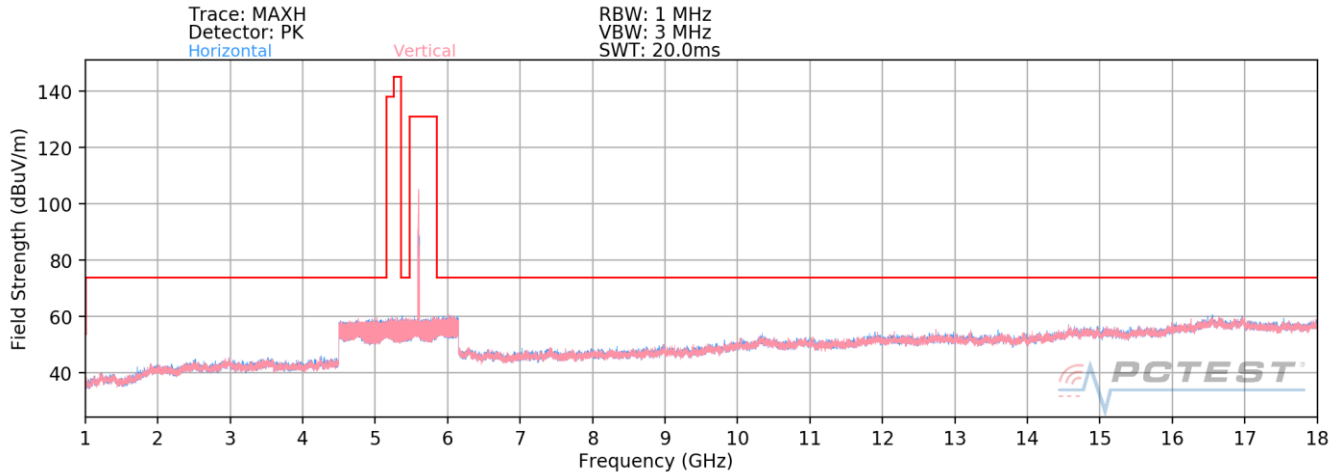


**Plot 7-261. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 26 Tones)**

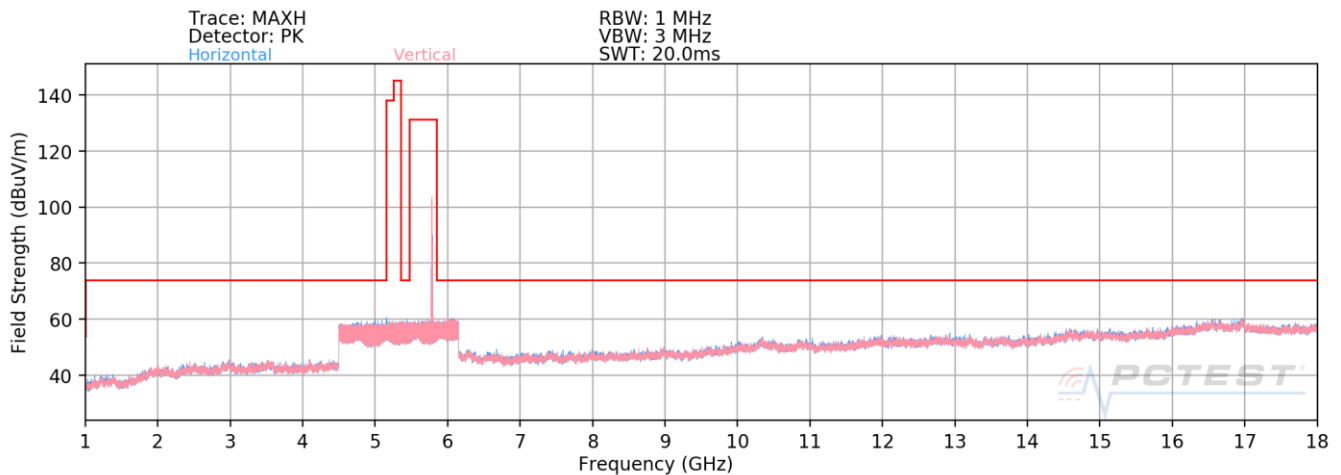


**Plot 7-262. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 214 of 274



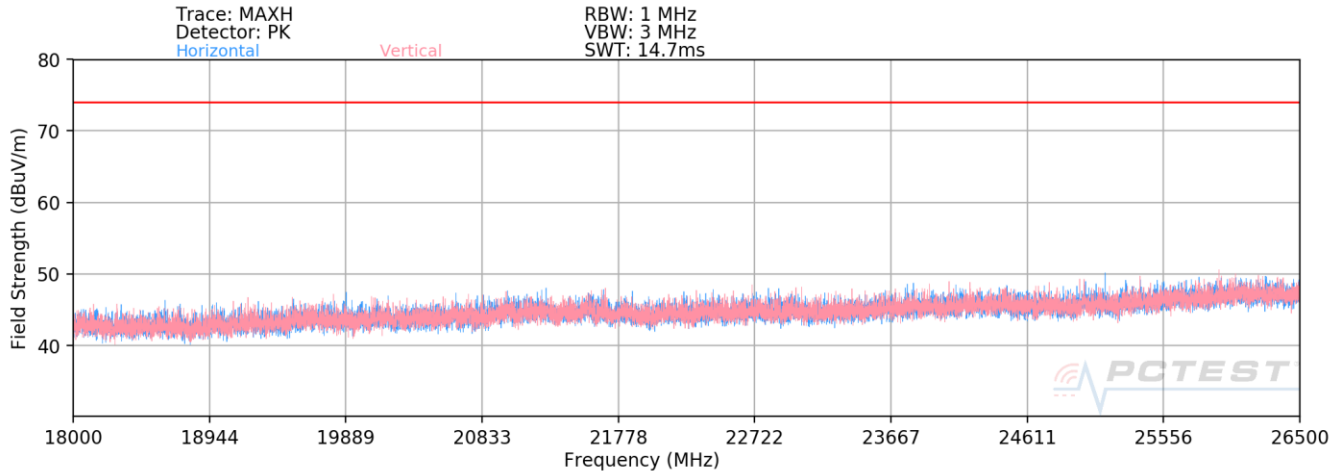
**Plot 7-263. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 26 Tones)**



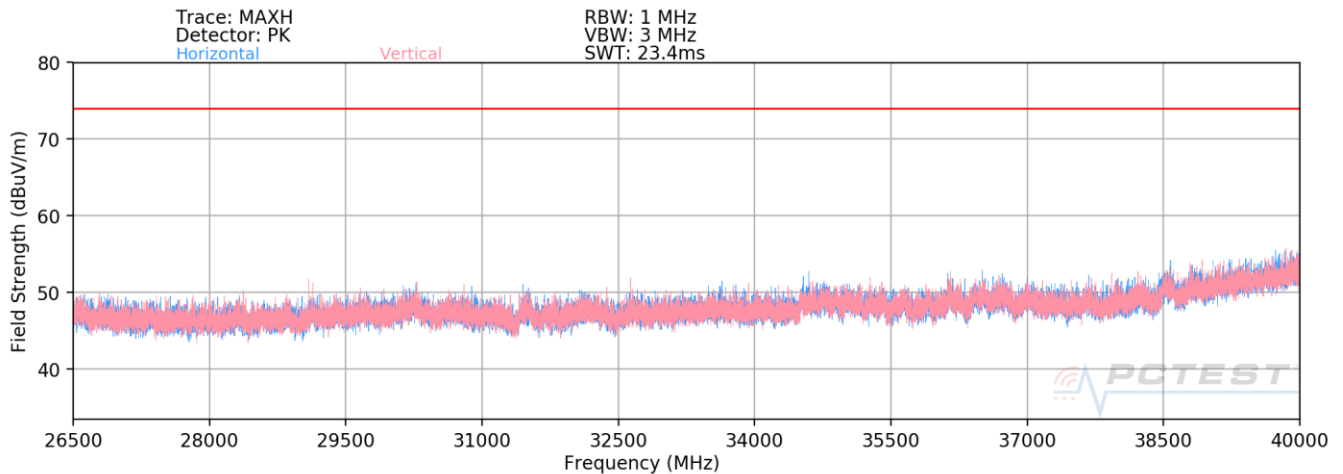
**Plot 7-264. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 215 of 274

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



**Plot 7-265. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 26 Tones)**



**Plot 7-266. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 216 of 274

## SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	175	345	-59.67	16.59	0.00	63.92	68.20	-4.28
* 15540.00	Average	V	-	-	-80.91	23.05	0.00	49.14	53.98	-4.84
* 15540.00	Peak	V	-	-	-68.57	23.05	0.00	61.48	73.98	-12.50
* 20720.00	Average	V	-	-	-66.58	5.75	-9.54	36.62	53.98	-17.36
* 20720.00	Peak	V	-	-	-55.83	5.75	-9.54	47.38	73.98	-26.60
25900.00	Peak	V	-	-	-55.26	7.99	-9.54	50.19	68.20	-18.01

**Table 7-128. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
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	398	335	-57.83	16.39	0.00	65.56	68.20	-2.64
* 15600.00	Average	V	-	-	-81.21	23.08	0.00	48.87	53.98	-5.11
* 15600.00	Peak	V	-	-	-69.76	23.08	0.00	60.32	73.98	-13.66
* 20800.00	Average	V	-	-	-66.63	5.54	-9.54	36.37	53.98	-17.61
* 20800.00	Peak	V	-	-	-55.02	5.54	-9.54	47.98	73.98	-26.00
26000.00	Peak	V	-	-	-55.85	8.12	-9.54	49.72	68.20	-18.48

**Table 7-129. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 217 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	384	38	-58.46	16.47	0.00	65.01	68.20	-3.19
* 15720.00	Average	V	-	-	-81.26	23.18	0.00	48.92	53.98	-5.06
* 15720.00	Peak	V	-	-	-70.22	23.18	0.00	59.96	73.98	-14.02
* 20960.00	Average	V	-	-	-66.84	5.67	-9.54	36.29	53.98	-17.69
* 20960.00	Peak	V	-	-	-56.05	5.67	-9.54	47.08	73.98	-26.90
26200.00	Peak	V	-	-	-55.11	8.28	-9.54	50.62	68.20	-17.58

**Table 7-130. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	382	41	-58.71	16.82	0.00	65.11	68.20	-3.09
* 15780.00	Average	V	-	-	-81.47	23.23	0.00	48.76	53.98	-5.22
* 15780.00	Peak	V	-	-	-70.10	23.23	0.00	60.13	73.98	-13.85
* 21040.00	Average	V	-	-	-66.59	5.89	-9.54	36.76	53.98	-17.22
* 21040.00	Peak	V	-	-	-55.69	5.89	-9.54	47.65	73.98	-26.33
26300.00	Peak	V	-	-	-55.47	7.92	-9.54	49.91	68.20	-18.29

**Table 7-131. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 218 of 274



Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	194	31	-58.98	17.16	0.00	65.18	68.20	-3.02
* 15840.00	Average	V	-	-	-81.07	23.33	0.00	49.26	53.98	-4.71
* 15840.00	Peak	V	-	-	-70.15	23.33	0.00	60.18	73.98	-13.79
* 21120.00	Average	V	-	-	-66.96	6.25	-9.54	36.75	53.98	-17.23
* 21120.00	Peak	V	-	-	-54.78	6.25	-9.54	48.93	73.98	-25.05
26400.00	Peak	V	-	-	-55.14	7.92	-9.54	50.24	68.20	-17.96

**Table 7-132. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	177	33	-73.76	17.05	0.00	50.29	53.98	-3.69
* 10640.00	Peak	V	177	33	-59.94	17.05	0.00	64.11	73.98	-9.87
* 15960.00	Average	V	-	-	-81.48	23.64	0.00	49.16	53.98	-4.82
* 15960.00	Peak	V	-	-	-70.27	23.64	0.00	60.37	73.98	-13.61
* 21280.00	Average	V	-	-	-66.71	6.30	-9.54	37.05	53.98	-16.93
* 21280.00	Peak	V	-	-	-55.69	6.30	-9.54	48.07	73.98	-25.91
26600.00	Peak	V	-	-	-55.15	8.04	-9.54	50.35	68.20	-17.85

**Table 7-133. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 219 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-79.95	17.66	0.00	44.71	53.98	-9.27
* 11000.00	Peak	V	-	-	-68.42	17.66	0.00	56.24	73.98	-17.74
16500.00	Peak	V	-	-	-70.15	24.74	0.00	61.59	68.20	-6.61
22000.00	Peak	V	-	-	-56.35	6.07	-9.54	47.19	68.20	-21.01
27500.00	Peak	V	-	-	-54.61	7.30	-9.54	50.14	68.20	-18.06

**Table 7-134. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5600MHz  
Channel: 120

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	-	-	-80.29	17.46	0.00	44.17	53.98	-9.81
* 11200.00	Peak	V	-	-	-68.65	17.46	0.00	55.81	73.98	-18.17
16800.00	Peak	V	-	-	-70.23	24.80	0.00	61.57	68.20	-6.63
* 22400.00	Average	V	-	-	-67.01	6.17	-9.54	36.61	53.98	-17.37
* 22400.00	Peak	V	-	-	-56.12	6.17	-9.54	47.50	73.98	-26.47
28000.00	Peak	V	-	-	-54.93	7.41	-9.54	49.93	68.20	-18.27

**Table 7-135. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 220 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5720MHz  
Channel: 144

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	-	-	-80.86	18.11	0.00	44.25	53.98	-9.73
* 11440.00	Peak	V	-	-	-69.20	18.11	0.00	55.91	73.98	-18.07
17160.00	Peak	V	-	-	-69.21	24.84	0.00	62.63	68.20	-5.57
* 22880.00	Average	V	-	-	-66.95	6.33	-9.54	36.84	53.98	-17.14
* 22880.00	Peak	V	-	-	-56.13	6.33	-9.54	47.66	73.98	-26.32
28600.00	Peak	V	-	-	-56.38	7.87	-9.54	48.95	68.20	-19.25

**Table 7-136. Radiated Measurements SISO ANT2 (26 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-81.19	18.05	0.00	43.86	53.98	-10.12
* 11490.00	Peak	V	-	-	-69.67	18.05	0.00	55.38	73.98	-18.60
17235.00	Peak	V	-	-	-69.25	25.61	0.00	63.36	68.20	-4.84
* 22980.00	Average	V	-	-	-66.88	6.35	-9.54	36.92	53.98	-17.06
* 22980.00	Peak	V	-	-	-56.11	6.35	-9.54	47.70	73.98	-26.28
28725.00	Peak	V	-	-	-55.37	7.99	-9.54	50.07	68.20	-18.13

**Table 7-137. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 221 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
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	-	-	-80.57	18.08	0.00	44.51	53.98	-9.47
* 11570.00	Peak	V	-	-	-69.18	18.08	0.00	55.90	73.98	-18.08
17355.00	Peak	V	-	-	-69.80	26.20	0.00	63.40	68.20	-4.80
23140.00	Peak	V	-	-	-56.06	6.38	-9.54	47.77	68.20	-20.43
28925.00	Peak	V	-	-	-55.07	7.85	-9.54	50.24	68.20	-17.96

**Table 7-138. Radiated Measurements SISO ANT2 (26 Tones)**

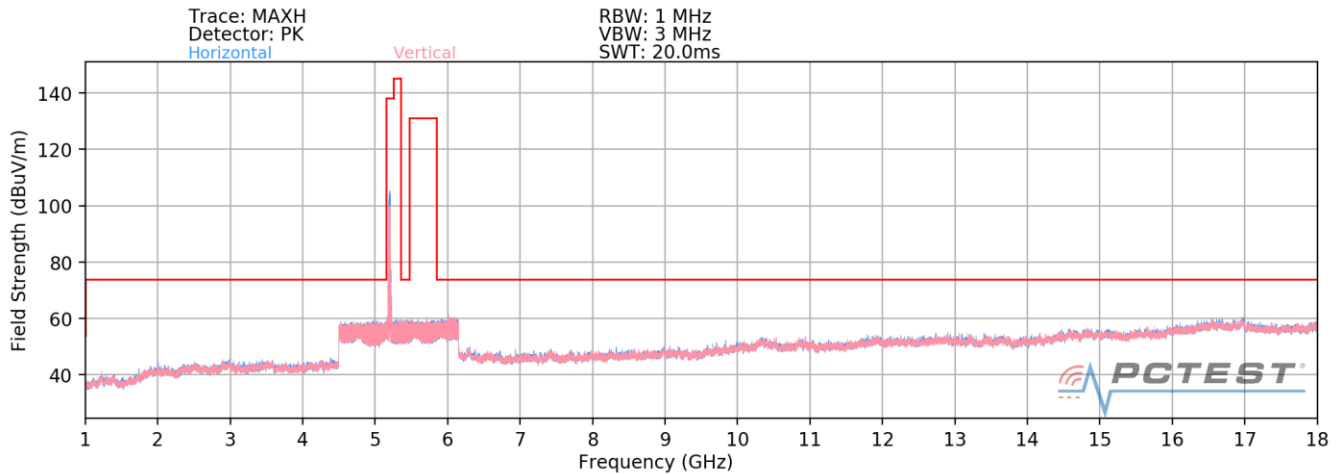
Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 54  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165

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	-	-	-80.97	18.09	0.00	44.12	53.98	-9.86
* 11650.00	Peak	V	-	-	-69.40	18.09	0.00	55.69	73.98	-18.29
17475.00	Peak	V	-	-	-68.86	25.92	0.00	64.06	68.20	-4.14
23300.00	Peak	V	-	-	-56.34	6.41	-9.54	47.53	68.20	-20.67
29125.00	Peak	V	-	-	-55.81	8.35	-9.54	50.00	68.20	-18.20

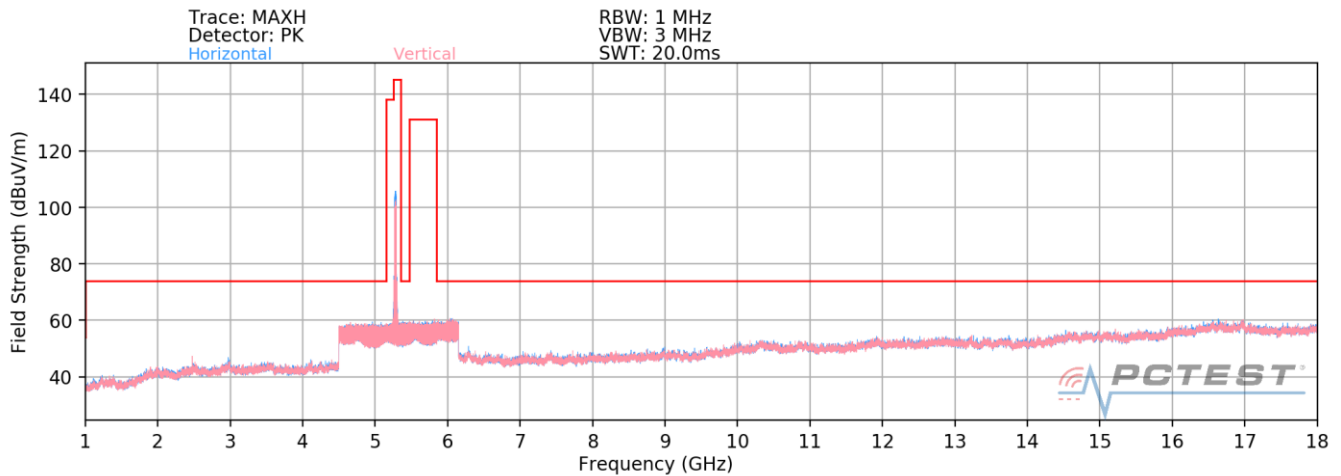
**Table 7-139. Radiated Measurements SISO ANT2 (26 Tones)**

FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 222 of 274

## 242 Tones

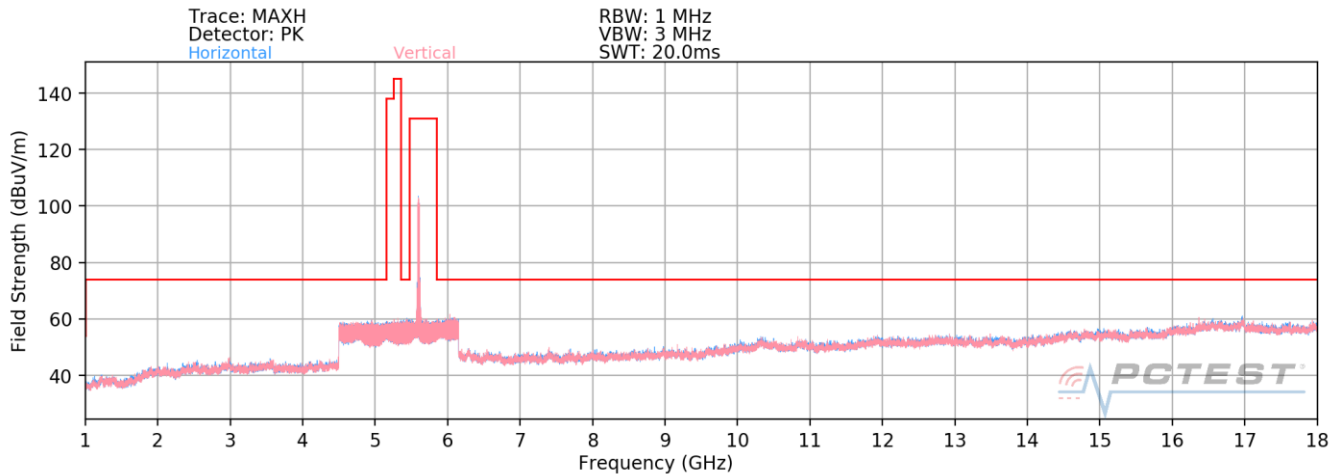


**Plot 7-267. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)**

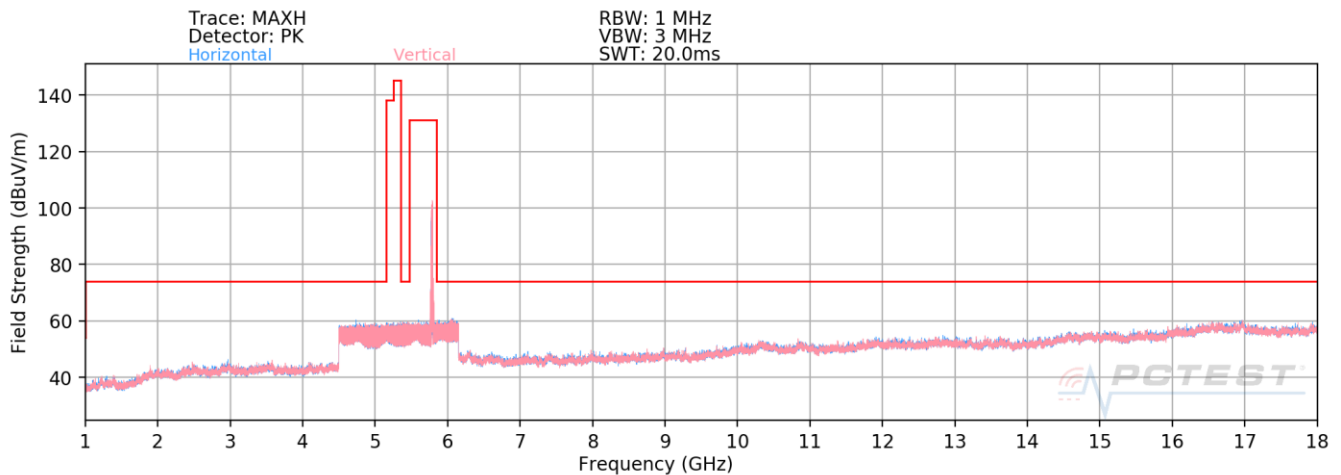


**Plot 7-268. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 223 of 274



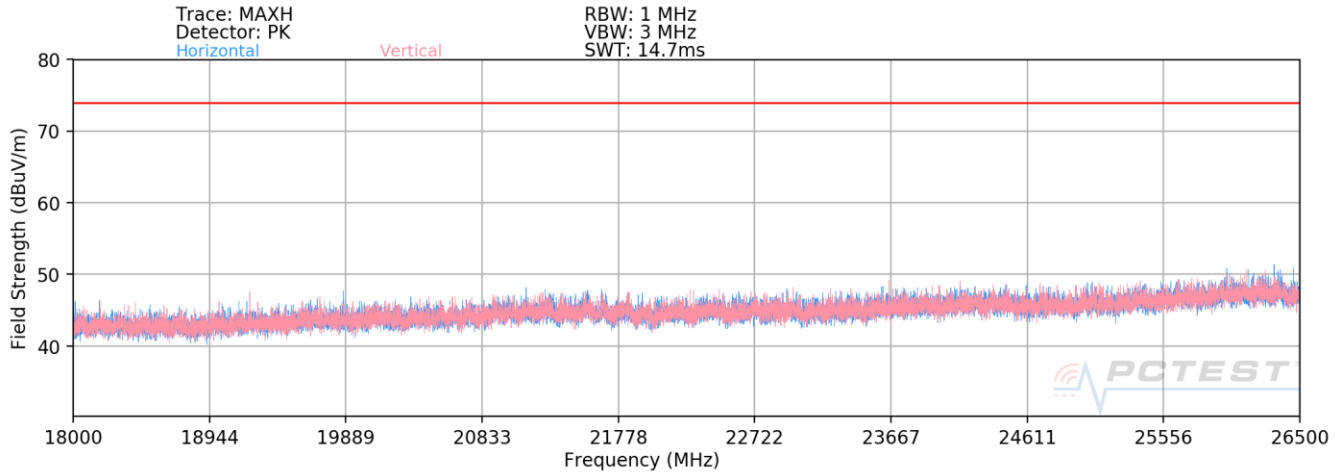
**Plot 7-269. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)**



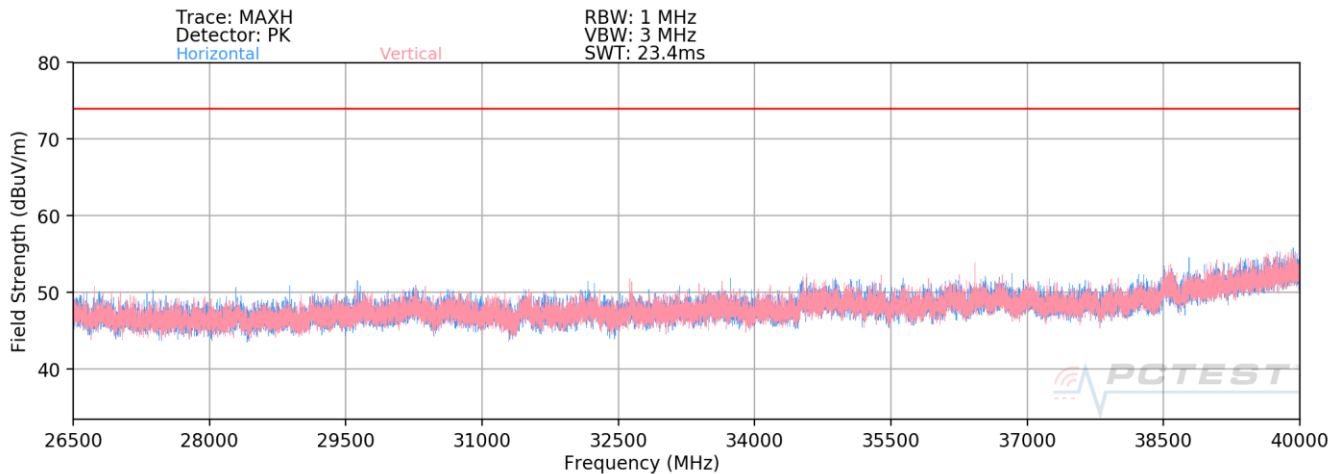
**Plot 7-270. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 224 of 274

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



**Plot 7-271. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 242 Tones)**



**Plot 7-272. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 242 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 225 of 274

## SISO Antenna-2 Radiated Spurious Emission Measurements

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

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	387	39	-59.02	16.59	0.00	64.57	68.20	-3.63
* 15540.00	Average	V	-	-	-80.95	23.05	0.00	49.10	53.98	-4.88
* 15540.00	Peak	V	-	-	-69.38	23.05	0.00	60.67	73.98	-13.31
* 20720.00	Average	V	-	-	-66.88	5.75	-9.54	36.32	53.98	-17.66
* 20720.00	Peak	V	-	-	-56.02	5.75	-9.54	47.19	73.98	-26.79
25900.00	Peak	V	-	-	-55.43	7.99	-9.54	50.02	68.20	-18.18

**Table 7-140. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	61
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	384	37	-59.66	16.39	0.00	63.73	68.20	-4.47
* 15600.00	Average	V	-	-	-81.26	23.08	0.00	48.82	53.98	-5.16
* 15600.00	Peak	V	-	-	-70.05	23.08	0.00	60.03	73.98	-13.95
* 20800.00	Average	V	-	-	-66.76	5.54	-9.54	36.24	53.98	-17.74
* 20800.00	Peak	V	-	-	-54.51	5.54	-9.54	48.49	73.98	-25.49
26000.00	Peak	V	-	-	-54.95	8.12	-9.54	50.63	68.20	-17.57

**Table 7-141. Radiated Measurements SISO ANT2 (242 Tones)**

FCC ID: PY7-95324M		MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 226 of 274



Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	394	37	-58.93	16.47	0.00	64.54	68.20	-3.66
* 15720.00	Average	V	-	-	-81.30	23.18	0.00	48.88	53.98	-5.10
* 15720.00	Peak	V	-	-	-69.54	23.18	0.00	60.64	73.98	-13.34
* 20960.00	Average	V	-	-	-66.53	5.67	-9.54	36.60	53.98	-17.38
* 20960.00	Peak	V	-	-	-55.22	5.67	-9.54	47.91	73.98	-26.07
26200.00	Peak	V	-	-	-54.66	8.28	-9.54	51.08	68.20	-17.12

**Table 7-142. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	376	37	-58.64	16.82	0.00	65.18	68.20	-3.02
* 15780.00	Average	V	-	-	-81.36	23.23	0.00	48.87	53.98	-5.11
* 15780.00	Peak	V	-	-	-69.76	23.23	0.00	60.47	73.98	-13.51
* 21040.00	Average	V	-	-	-66.25	5.89	-9.54	37.09	53.98	-16.88
* 21040.00	Peak	V	-	-	-55.60	5.89	-9.54	47.74	73.98	-26.24
26300.00	Peak	V	-	-	-55.79	7.92	-9.54	49.59	68.20	-18.61

**Table 7-143. Radiated Measurements SISO ANT2 (242 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 227 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	386	36	-59.74	17.16	0.00	64.42	68.20	-3.78
* 15840.00	Average	V	-	-	-81.22	23.33	0.00	49.11	53.98	-4.86
* 15840.00	Peak	V	-	-	-69.89	23.33	0.00	60.44	73.98	-13.53
* 21120.00	Average	V	-	-	-66.62	6.25	-9.54	37.09	53.98	-16.89
* 21120.00	Peak	V	-	-	-54.75	6.25	-9.54	48.96	73.98	-25.02
* 26400.00	Peak	V	-	-	-55.54	7.92	-9.54	49.84	68.20	-18.36

**Table 7-144. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	165	129	-77.01	17.05	0.00	47.04	53.98	-6.94
* 10640.00	Peak	V	165	129	-65.04	17.05	0.00	59.01	73.98	-14.97
* 15960.00	Average	V	-	-	-81.48	23.64	0.00	49.16	53.98	-4.82
* 15960.00	Peak	V	-	-	-69.89	23.64	0.00	60.75	73.98	-13.23
* 21280.00	Average	V	-	-	-66.77	6.30	-9.54	36.99	53.98	-16.99
* 21280.00	Peak	V	-	-	-56.16	6.30	-9.54	47.60	73.98	-26.38
* 26600.00	Peak	V	-	-	-55.64	8.04	-9.54	49.85	68.20	-18.35

**Table 7-145. Radiated Measurements SISO ANT2 (242 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 228 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	-	-	-79.98	17.66	0.00	44.68	53.98	-9.30
* 11000.00	Peak	V	-	-	-68.95	17.66	0.00	55.71	73.98	-18.27
16500.00	Peak	V	-	-	-69.58	24.74	0.00	62.16	68.20	-6.04
22000.00	Peak	V	-	-	-56.36	6.07	-9.54	47.18	68.20	-21.02
27500.00	Peak	V	-	-	-55.81	7.30	-9.54	48.94	68.20	-19.26

**Table 7-146. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5600MHz  
Channel: 120

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	-	-	-80.11	17.46	0.00	44.35	53.98	-9.63
* 11200.00	Peak	V	-	-	-68.66	17.46	0.00	55.80	73.98	-18.18
16800.00	Peak	V	-	-	-70.17	24.80	0.00	61.63	68.20	-6.57
* 22400.00	Average	V	-	-	-80.86	6.17	-9.54	22.77	53.98	-31.21
* 22400.00	Peak	V	-	-	-69.20	6.17	-9.54	34.43	73.98	-39.55
28000.00	Peak	V	-	-	-69.21	7.41	-9.54	35.65	68.20	-32.55

**Table 7-147. Radiated Measurements SISO ANT2 (242 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 229 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5720MHz  
Channel: 144

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	-	-	-80.93	18.11	0.00	44.18	53.98	-9.80
* 11440.00	Peak	V	-	-	-69.45	18.11	0.00	55.66	73.98	-18.32
17160.00	Peak	V	-	-	-69.12	24.84	0.00	62.72	68.20	-5.48
* 22880.00	Average	V	-	-	-66.18	6.33	-9.54	37.61	53.98	-16.37
* 22880.00	Peak	V	-	-	-55.89	6.33	-9.54	47.90	73.98	-26.08
28600.00	Peak	V	-	-	-55.74	7.87	-9.54	49.60	68.20	-18.60

**Table 7-148. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	-	-	-81.11	18.05	0.00	43.94	53.98	-10.04
* 11490.00	Peak	V	-	-	-69.03	18.05	0.00	56.02	73.98	-17.96
17235.00	Peak	V	-	-	-69.02	25.61	0.00	63.59	68.20	-4.61
* 22980.00	Average	V	-	-	-67.12	6.35	-9.54	36.69	53.98	-17.29
* 22980.00	Peak	V	-	-	-55.72	6.35	-9.54	48.09	73.98	-25.89
28725.00	Peak	V	-	-	-55.77	7.99	-9.54	49.67	68.20	-18.53

**Table 7-149. Radiated Measurements SISO ANT2 (242 Tones)**

FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 230 of 274

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
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	-	-	-80.57	18.08	0.00	44.51	53.98	-9.47
* 11570.00	Peak	V	-	-	-69.27	18.08	0.00	55.81	73.98	-18.17
17355.00	Peak	V	-	-	-69.64	26.20	0.00	63.56	68.20	-4.64
23140.00	Peak	V	-	-	-56.38	6.38	-9.54	47.45	68.20	-20.75
28925.00	Peak	V	-	-	-55.14	7.85	-9.54	50.17	68.20	-18.03

**Table 7-150. Radiated Measurements SISO ANT2 (242 Tones)**

Worst Case Mode: 802.11ax (20MHz BW)  
Worst Case Transfer Rate: MCS0  
RU Index: 61  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165

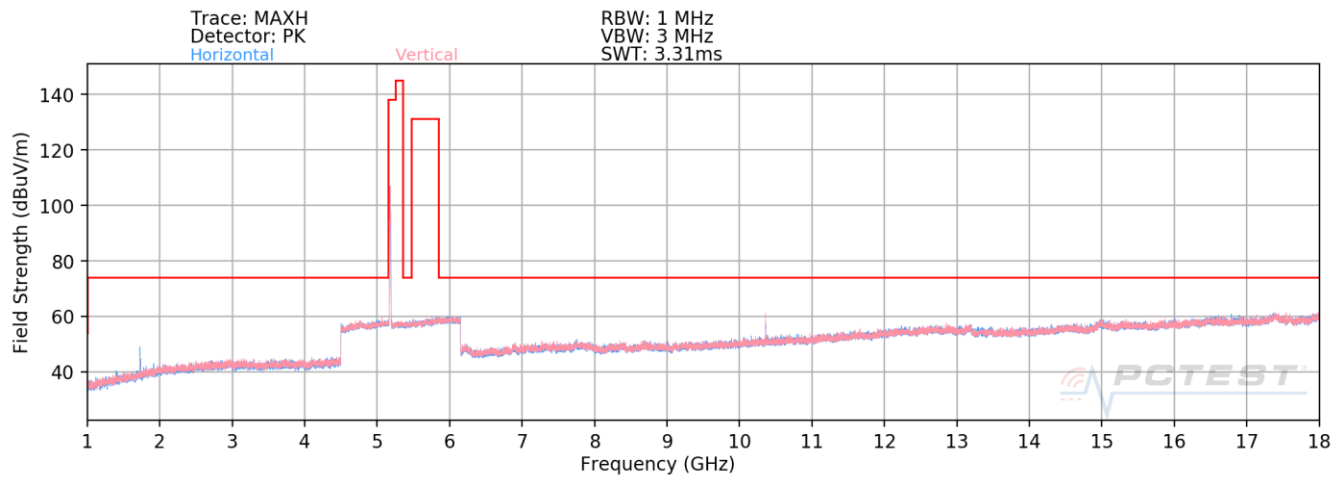
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	V	-	-	-80.80	18.09	0.00	44.29	53.98	-9.69
* 11650.00	Peak	V	-	-	-69.17	18.09	0.00	55.92	73.98	-18.06
17475.00	Peak	V	-	-	-69.99	25.92	0.00	62.93	68.20	-5.27
23300.00	Peak	V	-	-	-55.71	6.41	-9.54	48.16	68.20	-20.04
29125.00	Peak	V	-	-	-55.71	8.35	-9.54	50.10	68.20	-18.10

**Table 7-151. Radiated Measurements SISO ANT2 (242 Tones)**

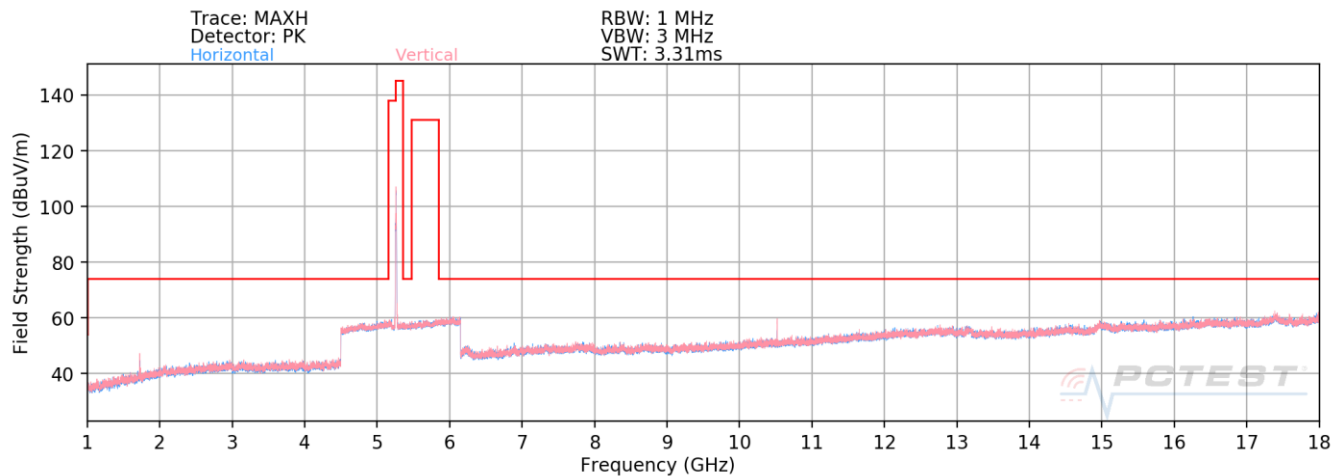
FCC ID: PY7-95324M	 <b>PCTEST</b> Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 231 of 274

## 7.6.3 MIMO Radiated Spurious Emission Measurements

### 26 Tones



**Plot 7-273. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 26 Tones)**



**Plot 7-274. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 26 Tones)**

FCC ID: PY7-95324M	<b>PCTEST</b> Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	<b>SONY</b>	Approved by: Technical Manager
Test Report S/N: 1M2108040087-09.PY7	Test Dates: 8/2/2021 - 9/10/2021	EUT Type: Portable Handset		Page 232 of 274