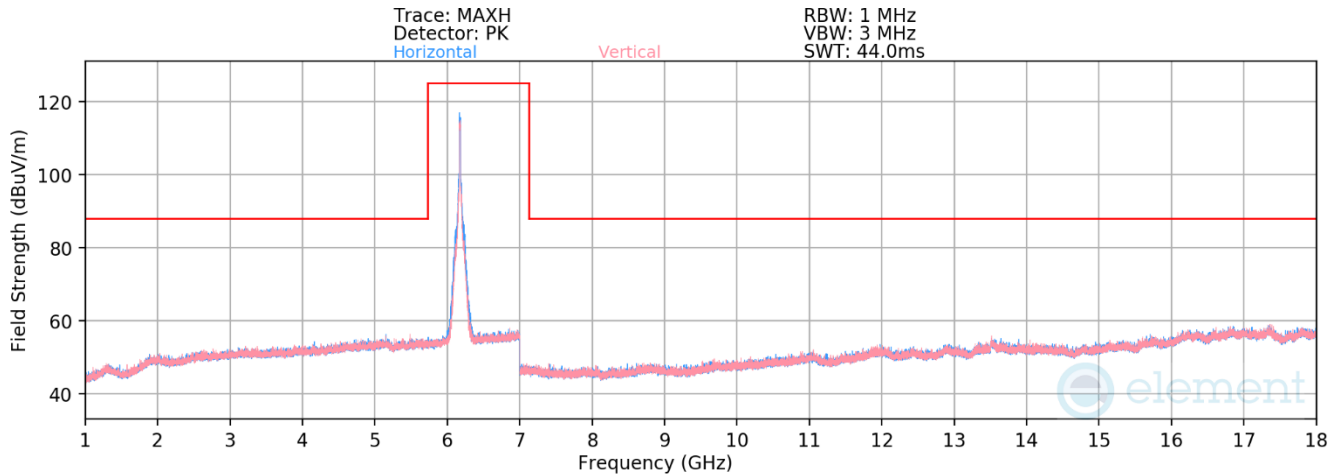
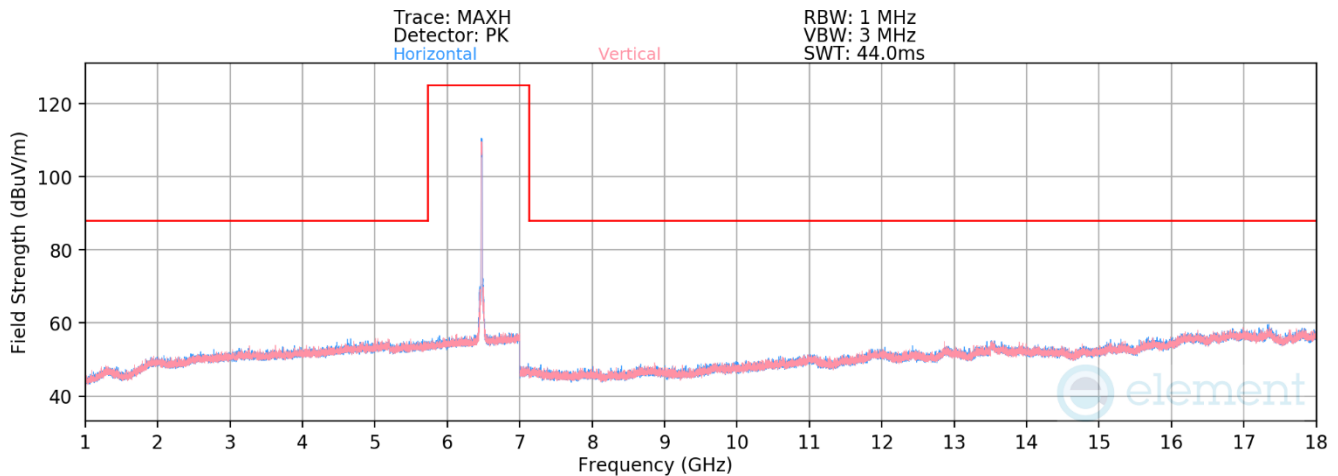


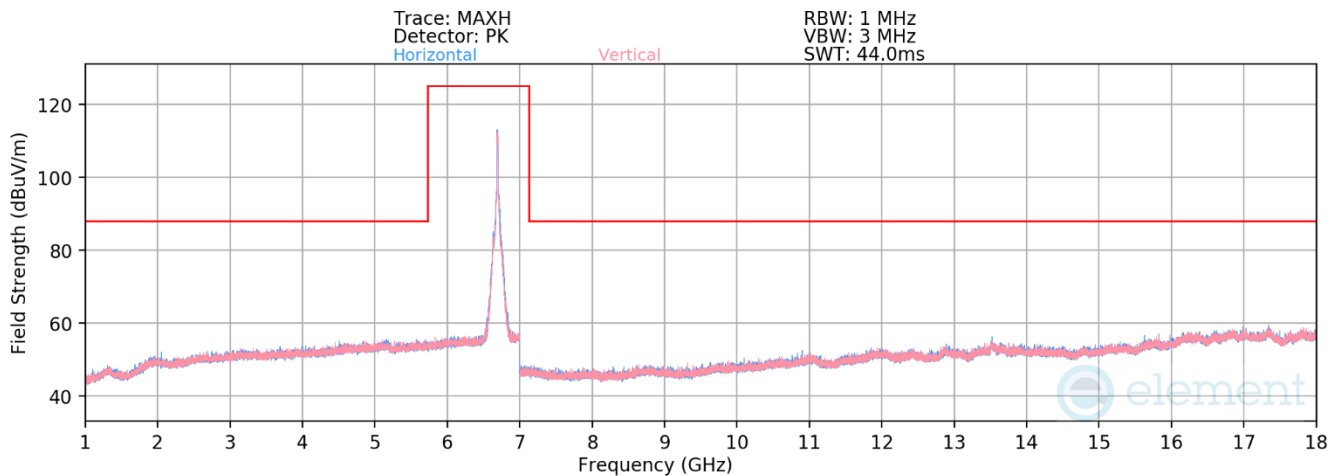
7.8.2 MIMO Radiated Spurious Emission Measurements (242 Tones)



Plot 7-174. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 5 Ch. 45)

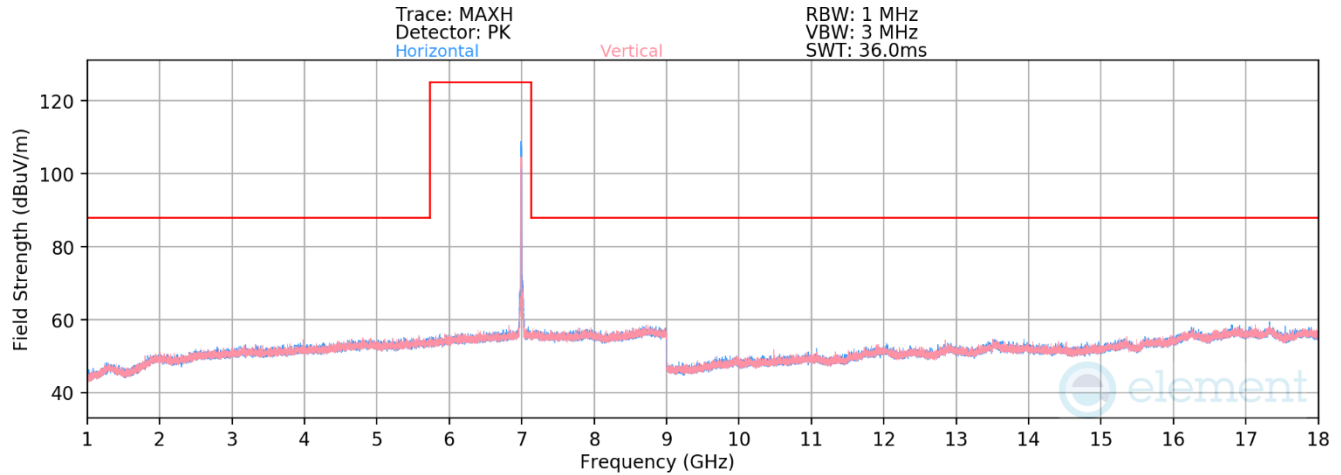


Plot 7-175. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 6 Ch. 105)

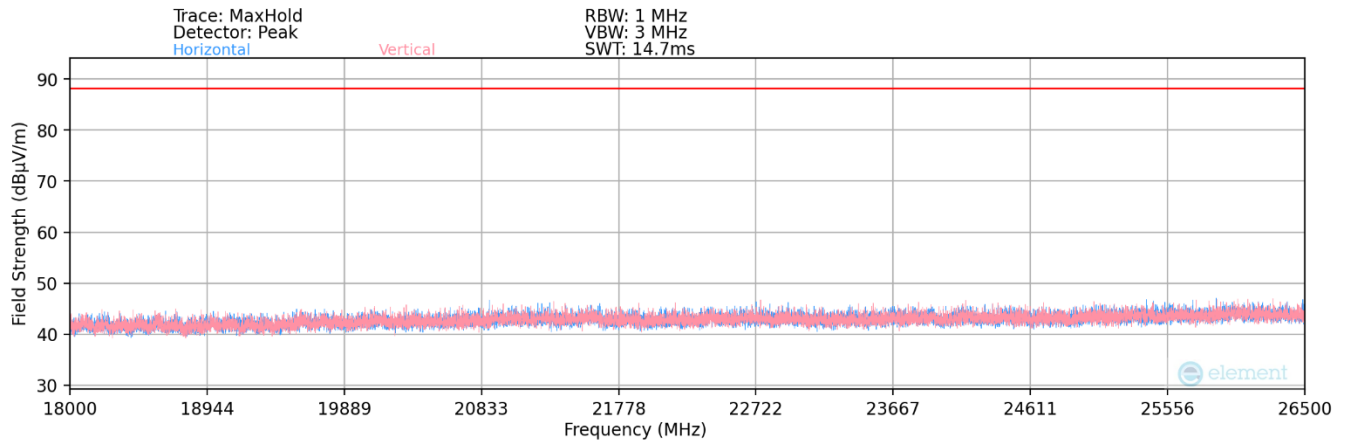


Plot 7-176. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – UNII Band 7 Ch. 149)

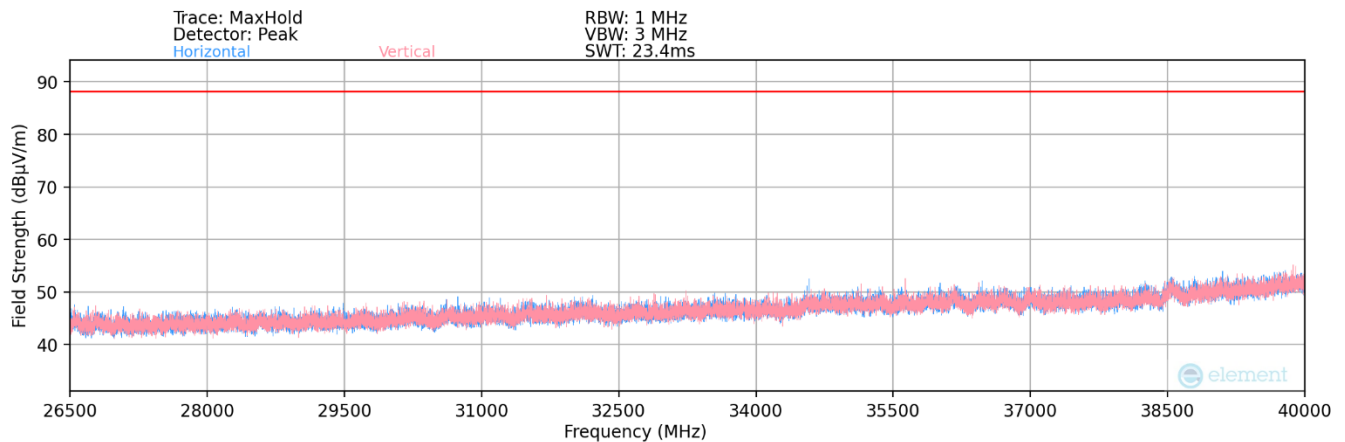
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 168 of 184



Plot 7-177. Radiated Spurious Plot 1GHz – 18GHz MIMO (802.11ax – U Band 8 Ch. 209)



Plot 7-178. Radiated Spurious Plot 18GHz - 26.5GHz (802.11ax)



Plot 7-179. Radiated Spurious Plot 26.5GHz - 40GHz (802.11ax)

FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 169 of 184

7.8.2.1 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 5

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
802.11be RU 242T	MIMO	5	2	5935	61	*	11870.00	Average	H	-	-	-82.51	16.71	0.00	41.20	53.98	-12.78
						*	11870.00	Peak	H	-	-	-71.03	16.71	0.00	52.68	73.98	-21.30
						*	17805.00	Average	H	-	-	-84.05	24.15	0.00	47.10	53.98	-6.88
						*	17805.00	Peak	H	-	-	-72.54	24.15	0.00	58.61	73.98	-15.37
						*	23740.00	Average	H	-	-	-65.98	3.58	-9.54	35.06	53.98	-18.92
						*	23740.00	Peak	H	-	-	-56.20	3.58	-9.54	44.84	73.98	-29.14
			45	6175	61		29675.00	Peak	H	-	-	-56.06	5.33	-9.54	46.73	68.20	-21.47
						*	12350.00	Average	V	-	-	-83.05	17.36	0.00	41.31	53.98	-12.67
						*	12350.00	Peak	V	-	-	-71.32	17.36	0.00	53.04	73.98	-20.94
						*	18525.00	Average	H	-	-	-65.05	1.16	-9.54	33.57	53.98	-20.41
						*	18525.00	Peak	H	-	-	-55.83	1.16	-9.54	42.79	73.98	-31.19
							24700.00	Peak	H	-	-	-56.49	3.72	-9.54	44.69	68.20	-23.51
			93	6415	61		30875.00	Peak	H	-	-	-56.93	6.32	-9.54	46.85	68.20	-21.35
							12830.00	Peak	H	-	-	-71.46	17.54	0.00	53.08	68.20	-15.12
						*	19245.00	Average	H	-	-	-64.92	1.84	-9.54	34.38	53.98	-19.60
						*	19245.00	Peak	H	-	-	-55.20	1.84	-9.54	44.10	73.98	-29.88
							25660.00	Peak	H	-	-	-54.90	3.90	-9.54	46.46	68.20	-21.74
							32075.00	Peak	H	-	-	-57.17	6.64	-9.54	46.93	68.20	-21.27

Table 7-81. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 170 of 184

7.8.2.2 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 6

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
802.11be RU 242T	MIMO	6	97	6435	61		12870.00	Peak	H	-	-	-72.00	18.10	0.00	53.10	68.20	-15.10
						*	19305.00	Average	H	-	-	-65.36	1.64	-9.54	33.74	53.98	-20.23
						*	19305.00	Peak	H	-	-	-55.42	1.64	-9.54	43.68	73.98	-30.30
							25740.00	Peak	H	-	-	-54.97	3.84	-9.54	46.33	68.20	-21.87
			105	6475	61		32175.00	Peak	H	-	-	-56.26	6.80	-9.54	48.00	68.20	-20.20
							12950.00	Peak	V	-	-	-72.42	18.36	0.00	52.94	68.20	-15.26
						*	19425.00	Average	H	-	-	-65.45	1.80	-9.54	33.81	53.98	-20.17
						*	19425.00	Peak	H	-	-	-55.98	1.80	-9.54	43.28	73.98	-30.70
							25900.00	Peak	H	-	-	-56.16	4.24	-9.54	45.54	68.20	-22.66
							32375.00	Peak	H	-	-	-56.19	6.46	-9.54	47.73	68.20	-20.47
			113	6515	61		13030.00	Peak	V	-	-	-71.77	18.23	0.00	53.46	68.20	-14.74
						*	19545.00	Average	H	-	-	-65.73	1.84	-9.54	33.57	53.98	-20.41
						*	19545.00	Peak	H	-	-	-55.55	1.84	-9.54	43.75	73.98	-30.23
							26060.00	Peak	H	-	-	-56.22	4.18	-9.54	45.42	68.20	-22.78
							32575.00	Peak	H	-	-	-56.33	6.18	-9.54	47.31	68.20	-20.89

Table 7-82. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 171 of 184

7.8.2.3 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 7

Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	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 [dBuV/m]	Limit [dBuV/m]	Margin [dB]
802.11be RU 242T	MIMO	7	117	6535	61		13070.00	Peak	H	-	-	-72.79	18.33	0.00	52.54	68.20	-15.66
						*	19605.00	Average	H	-	-	-65.35	2.38	-9.54	34.49	53.98	-19.49
						*	19605.00	Peak	H	-	-	-55.62	2.38	-9.54	44.22	73.98	-29.76
							26140.00	Peak	H	-	-	-55.93	4.03	-9.54	45.56	68.20	-22.64
			149	6695	61		32675.00	Peak	H	-	-	-55.60	6.46	-9.54	48.32	68.20	-19.88
						*	13390.00	Average	H	-	-	-83.54	17.72	0.00	41.18	53.98	-12.80
						*	13390.00	Peak	H	-	-	-72.12	17.72	0.00	52.60	73.98	-21.38
						*	20085.00	Average	H	-	-	-65.66	2.58	-9.54	34.38	53.98	-19.60
						*	20085.00	Peak	H	-	-	-54.84	2.58	-9.54	45.20	73.98	-28.78
							26780.00	Peak	H	-	-	-55.73	4.33	-9.54	46.06	68.20	-22.14
							33475.00	Peak	H	-	-	-55.35	6.96	-9.54	49.07	68.20	-19.13
			185	6875	61		13750.00	Peak	H	-	-	-70.38	17.56	0.00	54.18	68.20	-14.02
						*	20625.00	Average	H	-	-	-65.71	3.01	-9.54	34.76	53.98	-19.22
						*	20625.00	Peak	H	-	-	-56.15	3.01	-9.54	44.32	73.98	-29.66
							27500.00	Peak	H	-	-	-56.15	3.97	-9.54	45.28	68.20	-22.92
							34375.00	Peak	H	-	-	-56.63	7.33	-9.54	48.16	68.20	-20.04

Table 7-83. Radiated Measurements MIMO (242 Tones)

FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 172 of 184

7.8.2.4 MIMO Radiated Spurious Emission Measurements (242 Tones) – UNII Band 8

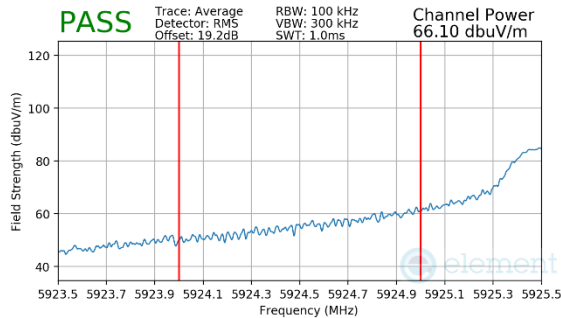
Mode	Antenna	UNII Band	Channel	Test Channel Freq. [MHz]	RU Index	Restricted	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
802.11be RU 242T	MIMO	8	189	6895	61		13790.00	Peak	V	-	-	-69.96	17.51	0.00	54.55	68.20	-13.65
						*	20685.00	Average	H	-	-	-65.70	3.01	-9.54	34.77	53.98	-19.21
						*	20685.00	Peak	H	-	-	-55.82	3.01	-9.54	44.65	73.98	-29.33
							27580.00	Peak	H	-	-	-65.33	4.40	-9.54	36.53	68.20	-31.67
			209	6995	61		34475.00	Peak	H	-	-	-56.56	7.31	-9.54	48.21	68.20	-19.99
							13990.00	Peak	H	-	-	-71.15	17.81	0.00	53.66	68.20	-14.54
						*	20985.00	Average	H	-	-	-65.88	3.27	-9.54	34.85	53.98	-19.13
						*	20985.00	Peak	H	-	-	-55.94	3.27	-9.54	44.79	73.98	-29.19
							27980.00	Peak	H	-	-	-56.56	4.40	-9.54	45.30	68.20	-22.90
							34975.00	Peak	H	-	-	-56.81	7.79	-9.54	48.44	68.20	-19.76
			233	7115	61		14230.00	Peak	H	-	-	-71.79	17.77	0.00	52.98	68.20	-15.22
						*	21345.00	Average	H	-	-	-65.79	3.57	-9.54	35.24	53.98	-18.74
						*	21345.00	Peak	H	-	-	-55.12	3.57	-9.54	45.91	73.98	-28.07
							28460.00	Peak	H	-	-	-55.94	5.01	-9.54	46.53	68.20	-21.67
							35575.00	Peak	H	-	-	-56.91	7.78	-9.54	48.33	68.20	-19.87

Table 7-84. Radiated Measurements MIMO (242 Tones)

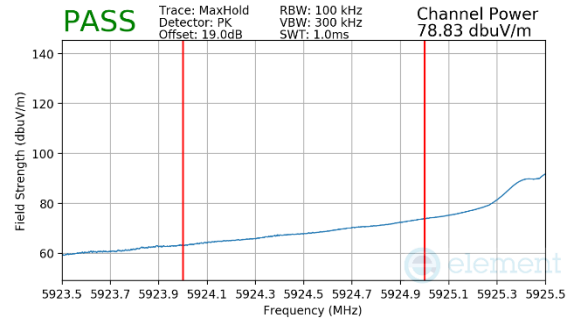
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 173 of 184

7.8.3 MIMO Radiated Band Edge Measurements (20MHz BW – Partial Tone – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	53
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

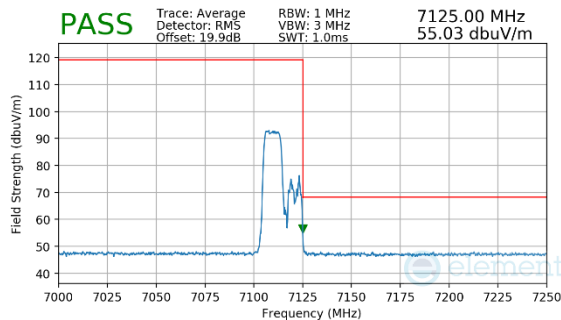


Plot 7-180. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106T)

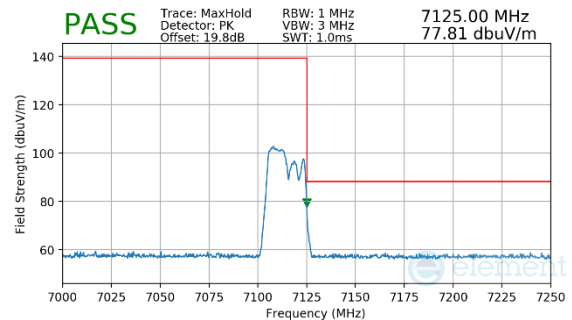


Plot 7-181. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	54
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-182. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106T)

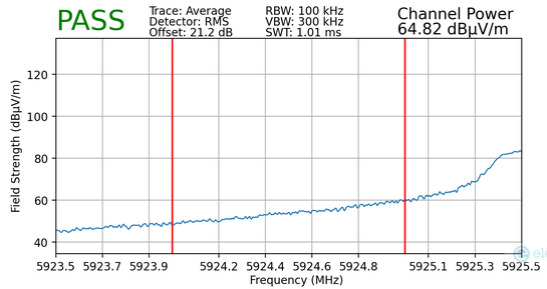


Plot 7-183. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106T)

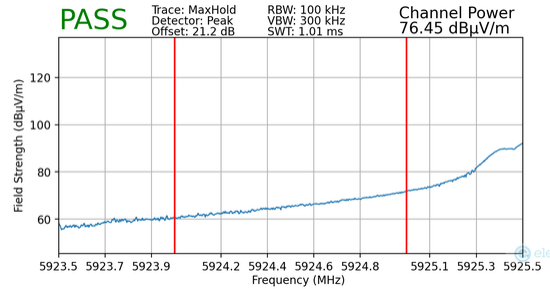
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 174 of 184

7.8.4 MIMO Radiated Band Edge Measurements (20MHz BW – MRU – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	82
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

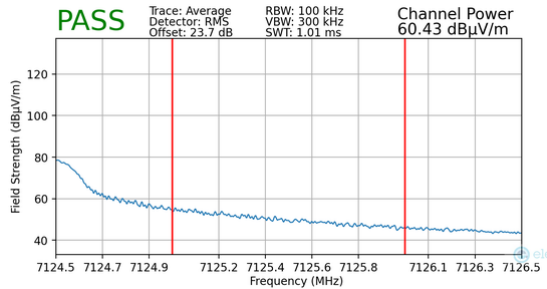


Plot 7-184. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 106+26T)

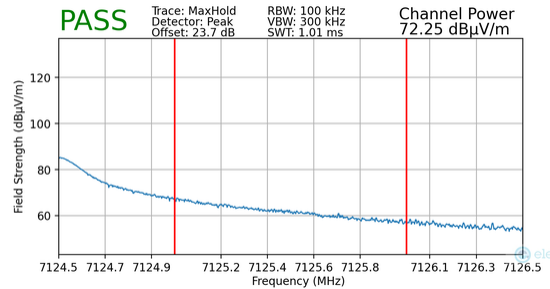


Plot 7-185. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 106+26T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	83
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-186. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 106+26T)

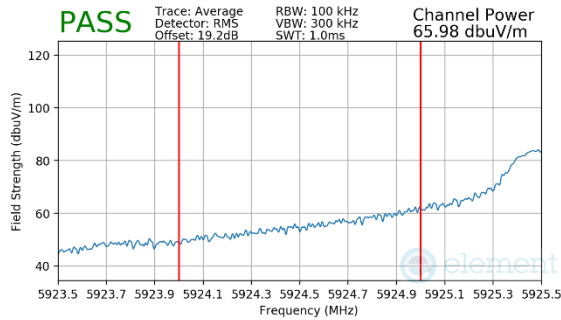


Plot 7-187. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 106+26T)

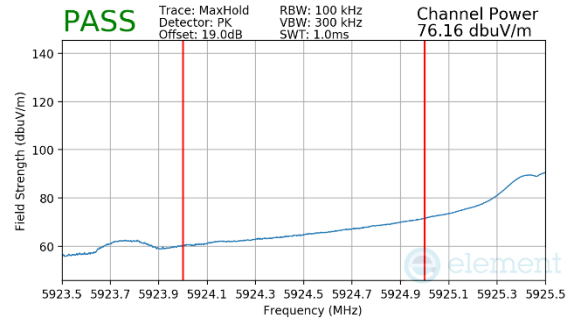
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 175 of 184

7.8.5 MIMO Radiated Band Edge Measurements (20MHz BW – Full Tone – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	5935MHz
Channel:	2

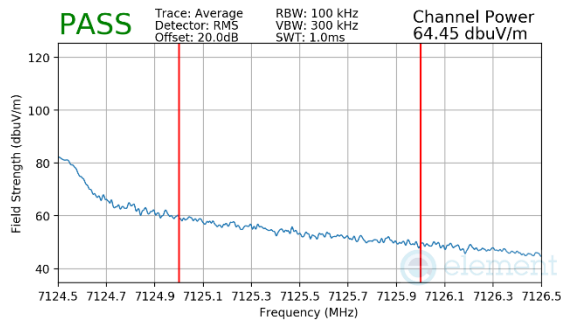


Plot 7-188. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 242T)

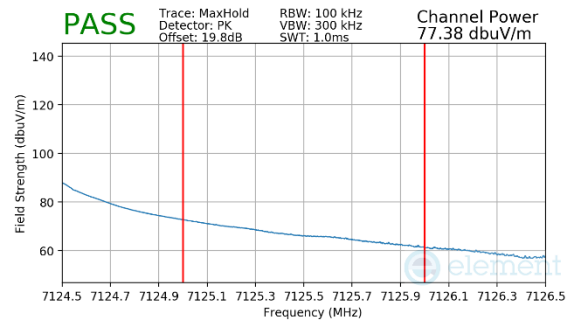


Plot 7-189. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	61
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233



Plot 7-190. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 242T)

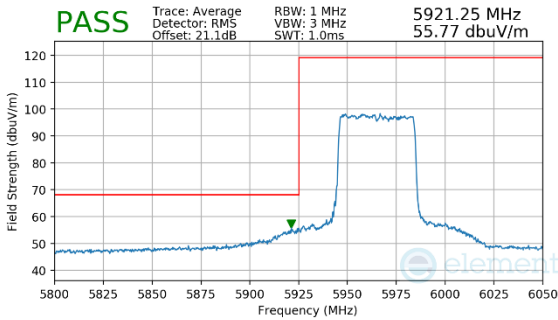


Plot 7-191. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 242T)

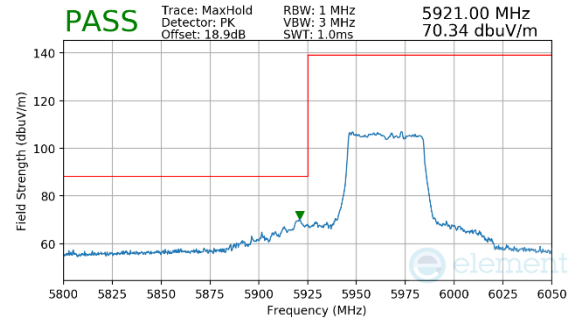
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 176 of 184

7.8.6 MIMO Radiated Band Edge Measurements (40MHz BW – Full Tone – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3

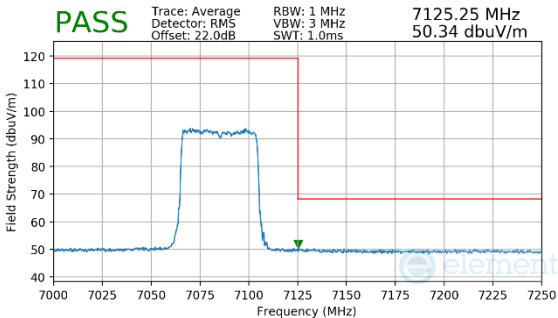


Plot 7-192. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484T)

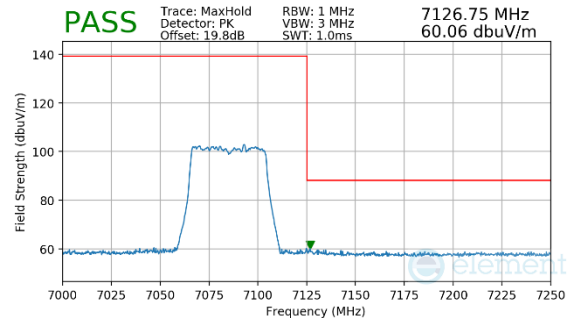


Plot 7-193. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	65
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-194. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 484T)

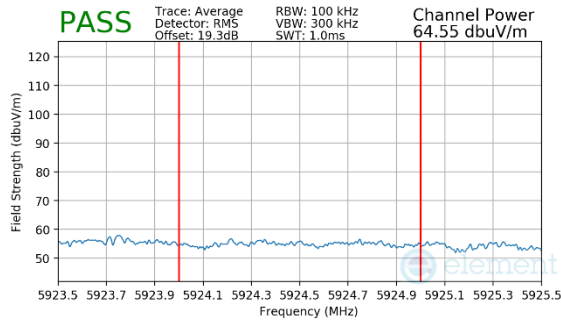


Plot 7-195. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484T)

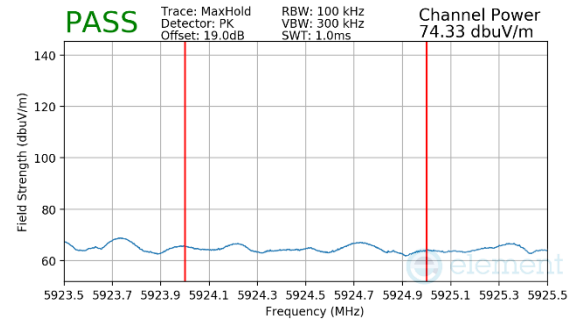
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260070-14.A3L	Test Dates: 09/03/2024 - 12/06/2024	EUT Type: Portable Handset	Page 177 of 184

7.8.7 MIMO Radiated Band Edge Measurements (80MHz BW – Full Tone – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

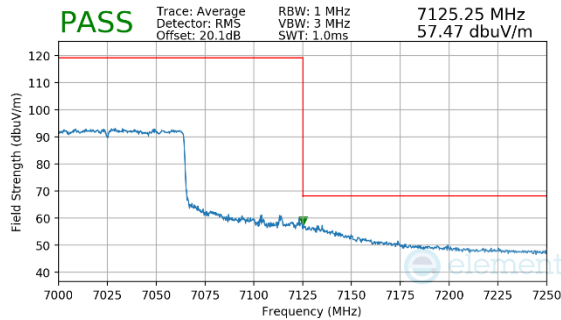


Plot 7-196. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996T)

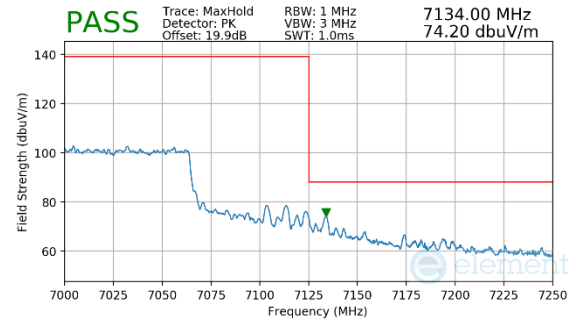


Plot 7-197. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-198. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996T)

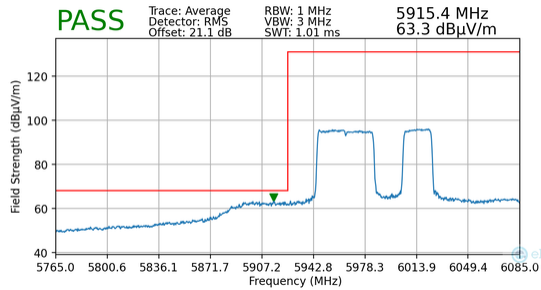


Plot 7-199. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996T)

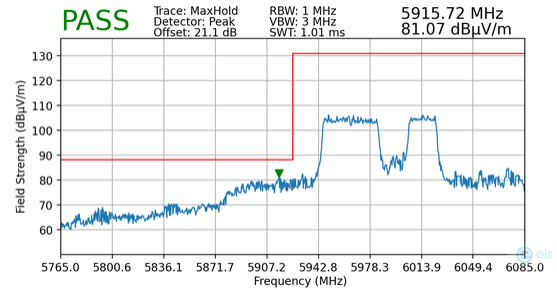
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.8.8 MIMO Radiated Band Edge Measurements (80MHz BW – MRU – 484+242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	92
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7

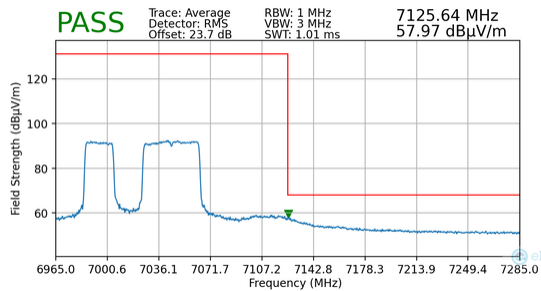


Plot 7-200. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 484+242T)

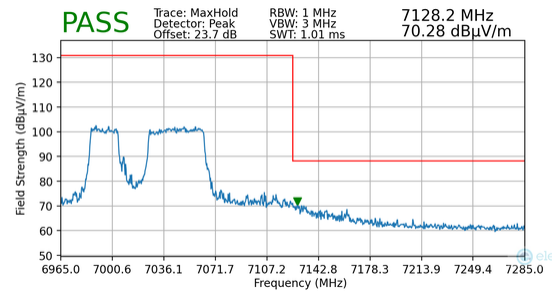


Plot 7-201. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 484+242T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	91
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-202. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 484+242T)

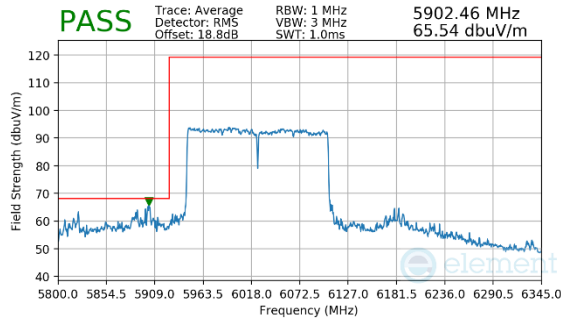


Plot 7-203. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 484+242T)

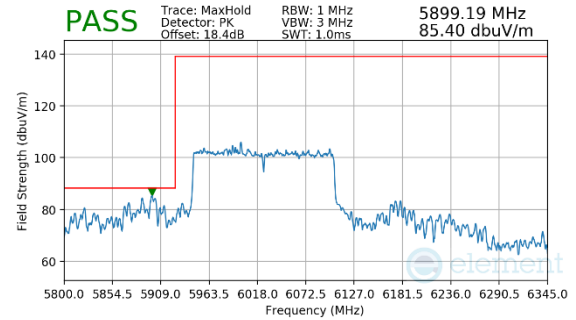
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.8.9 MIMO Radiated Band Edge Measurements (160MHz BW – Full Tone – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

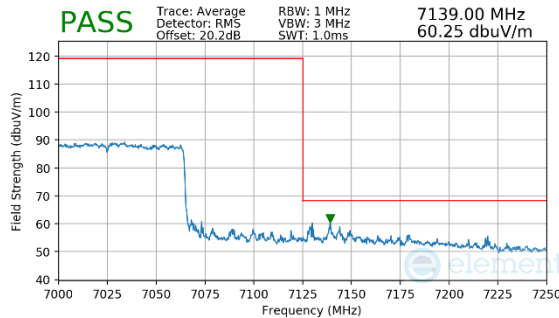


Plot 7-204. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 2x996T)

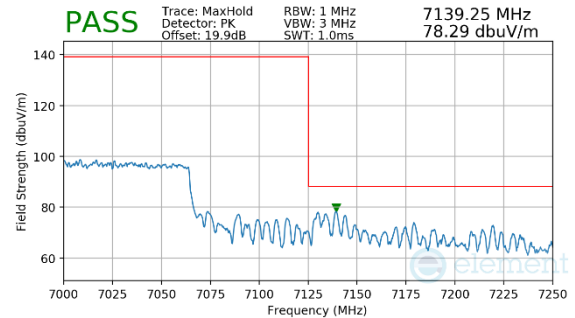


Plot 7-205. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 2x996T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-206. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 2x996T)

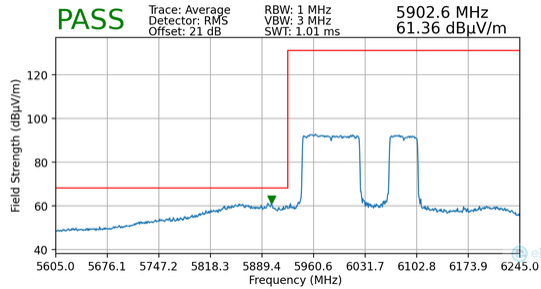


Plot 7-207. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 2x996T)

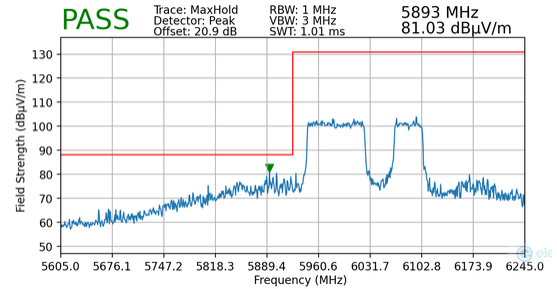
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.8.10 MIMO Radiated Band Edge Measurements (160MHz BW – MRU – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	1094
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

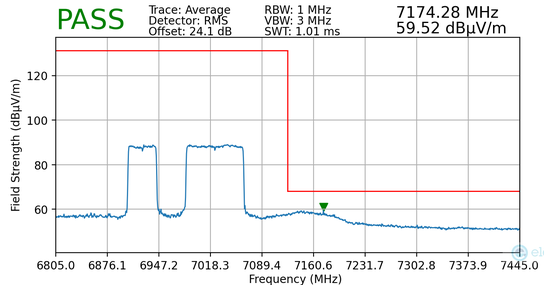


Plot 7-208. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 996+484T)

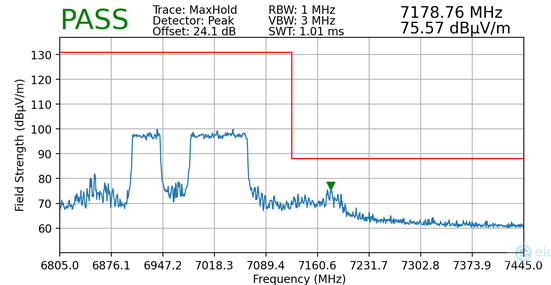


Plot 7-209. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 996+484T)

Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
RU Index	95
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-210. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 996+484T)

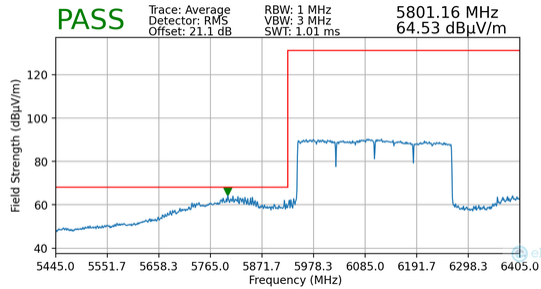


Plot 7-211. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 996+484T)

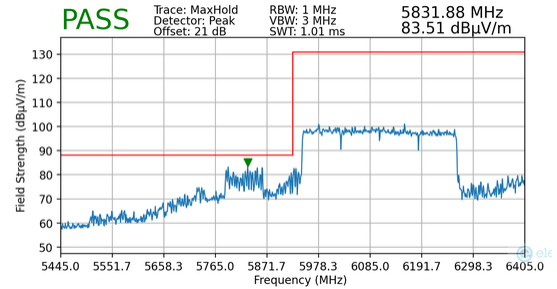
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.8.11 MIMO Radiated Band Edge Measurements (320MHz BW – Full Tone – 4*996T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

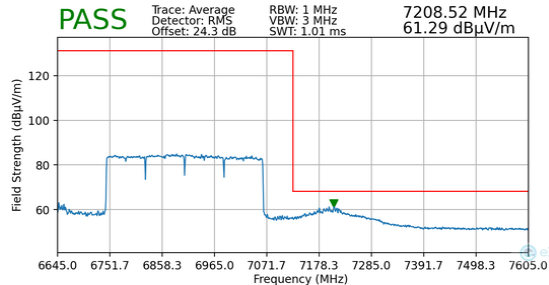


Plot 7-212. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 4*996T)

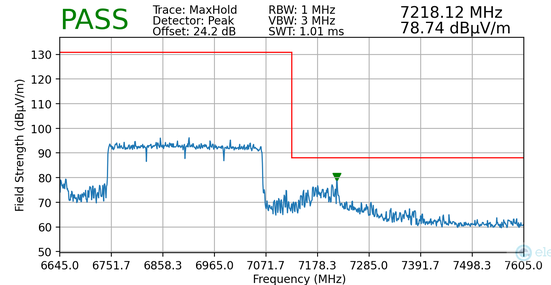


Plot 7-213. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 4*996T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	67
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-214. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 4*996T)

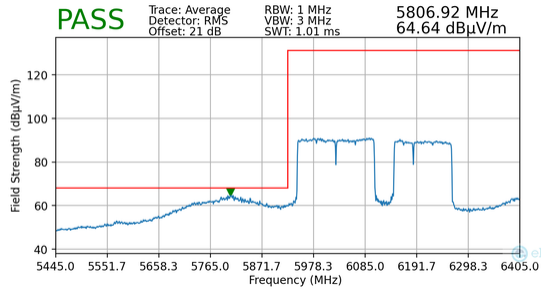


Plot 7-215. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 4*996T)

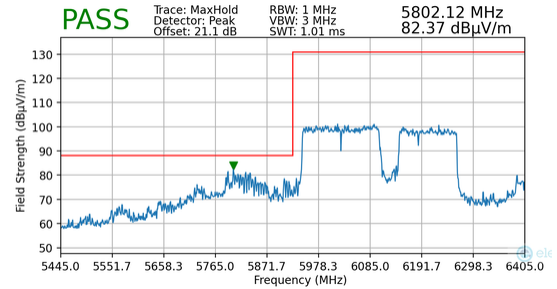
FCC ID: A3LSMS938JPN	MEASUREMENT REPORT		Approved by: Technical Manager
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7.8.12 MIMO Radiated Band Edge Measurements (320MHz BW – MRU – 3*996+484T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	10105
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15

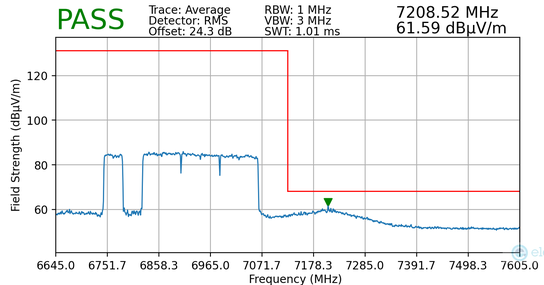


Plot 7-216. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 5 – 3*996+484T)

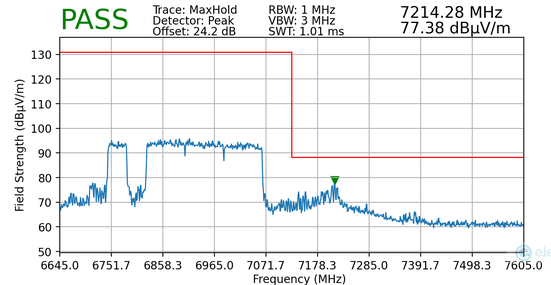


Plot 7-217. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 5 – 3*996+484T)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index	01104
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-218. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 8 – 3*996+484T)



Plot 7-219. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 8 – 3*996+484T)

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8 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS938JPN** is in compliance with FCC Part Subpart E (15.407) of the FCC rules for operation as a client device.

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