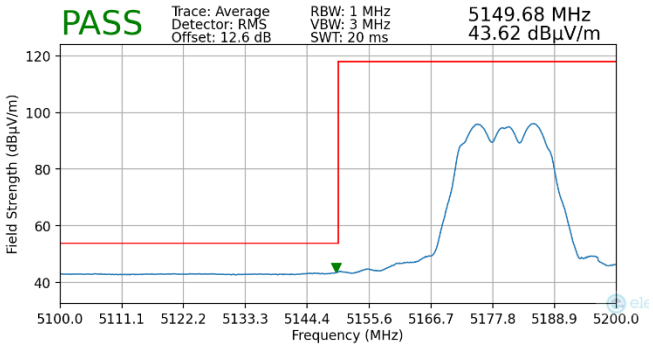
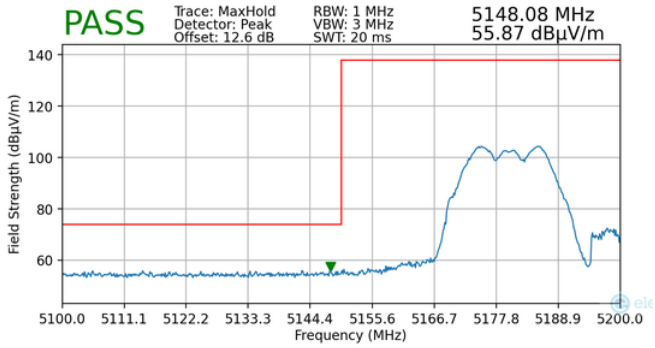
7.6.2 MIMO Radiated Band Edge Measurements (20MHz BW)

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

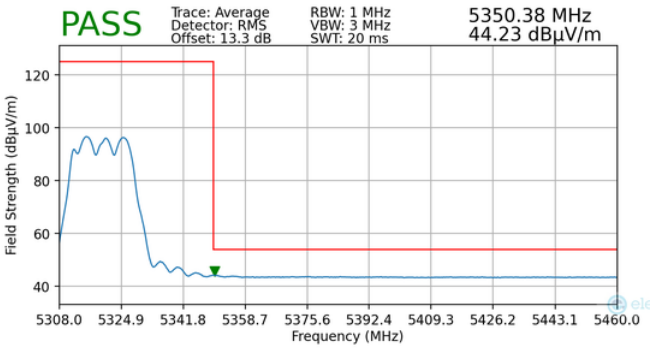


Plot 7-205. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

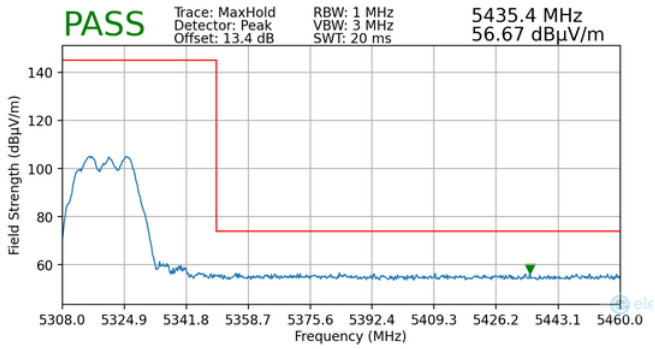


Plot 7-206. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



Plot 7-207. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-208. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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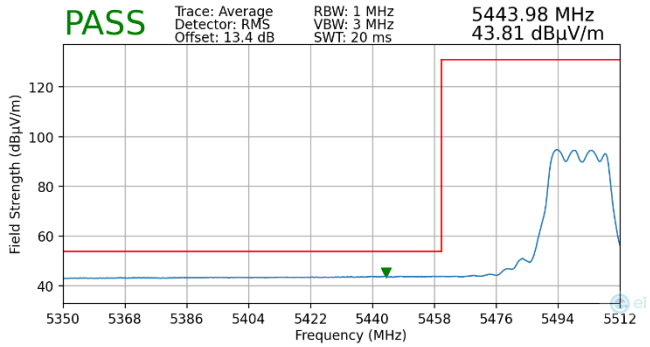
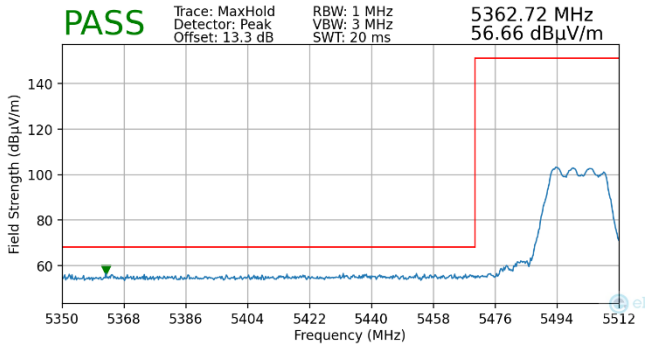
Worst Case Mode:	802.11a
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

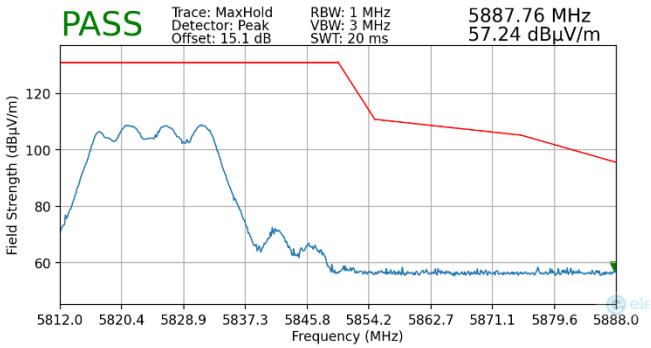


Plot 7-209. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-210. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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



Plot 7-211. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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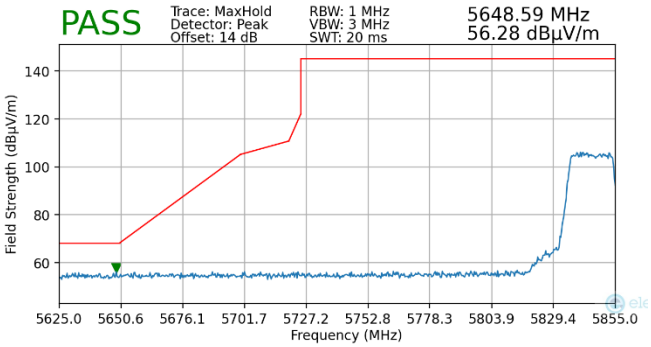
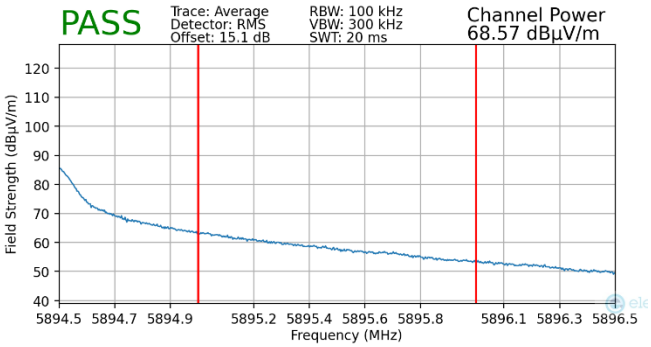
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5845MHz
Channel:	169

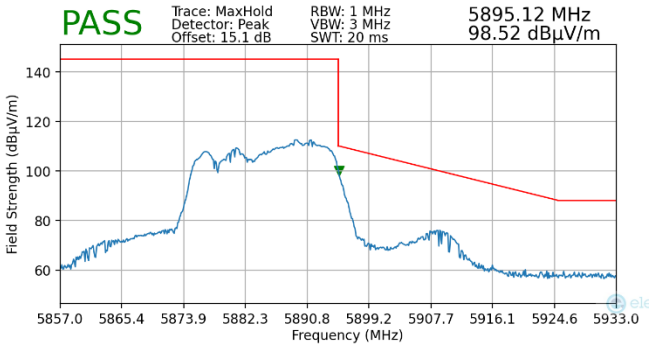


Plot 7-212. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	6Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5885MHz
Channel:	177



Plot 7-213. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-214. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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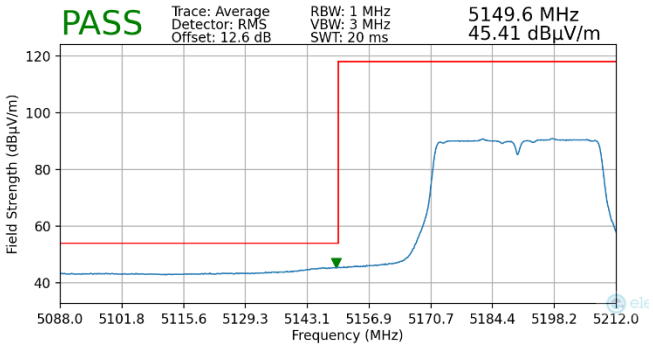
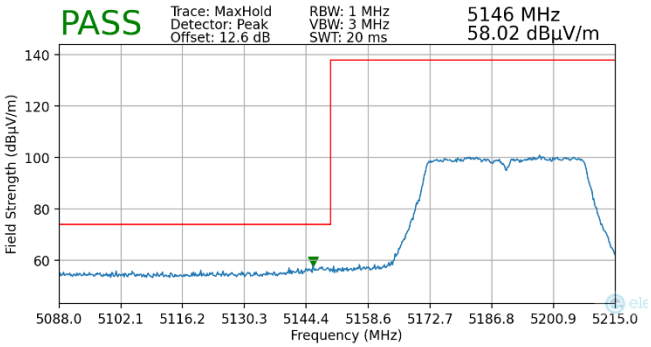
7.6.3 MIMO Radiated Band Edge Measurements (40MHz BW)

Worst Case Mode:	802.11ac
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

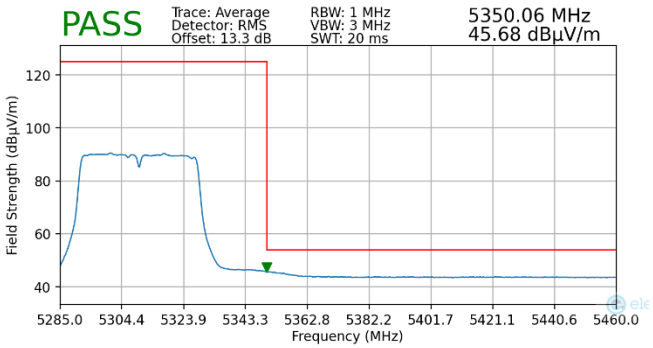


Plot 7-215. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

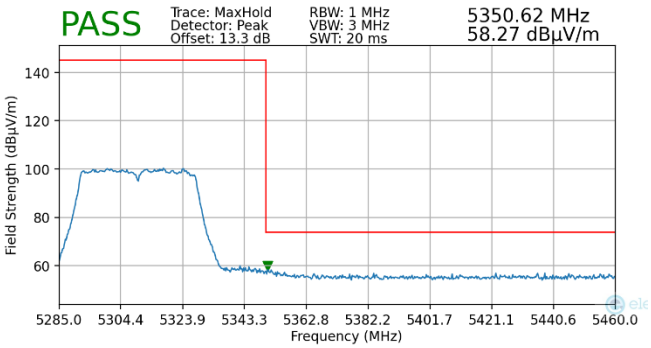


Plot 7-216. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



Plot 7-217. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-218. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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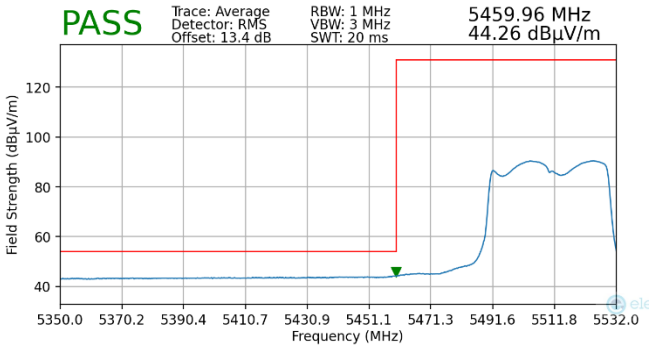
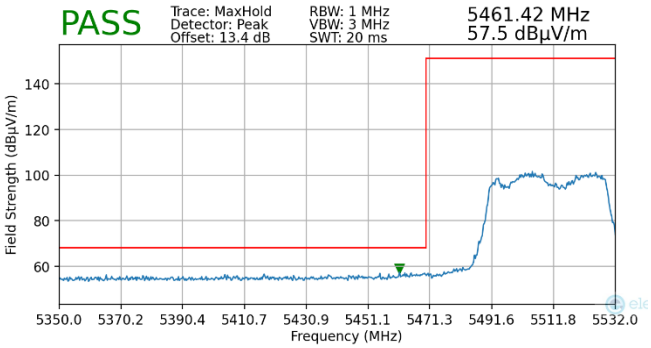
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5510MHz
Channel:	102

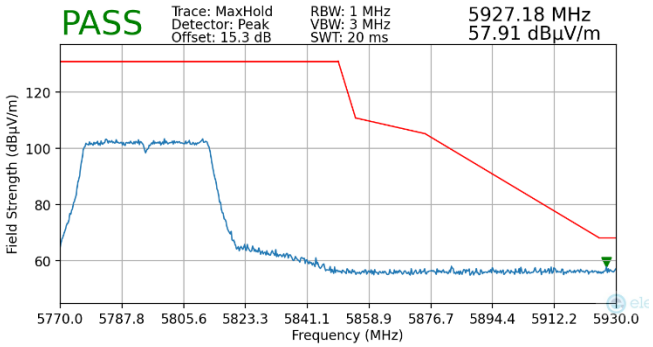


Plot 7-219. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-220. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5795MHz
Channel:	159



Plot 7-221. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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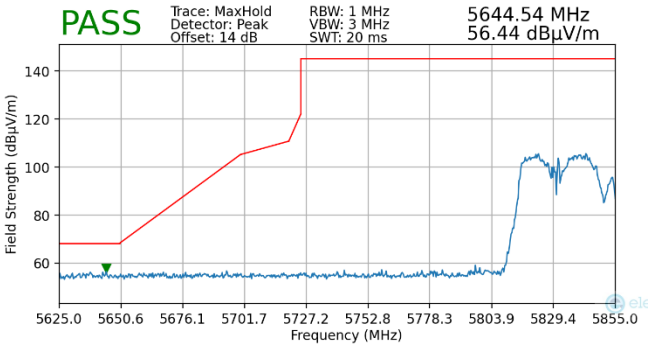
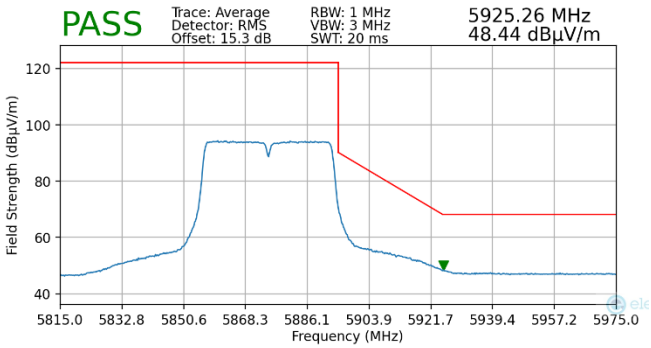
Worst Case Mode:	802.11be
Worst Case Transfer Rate:	MCS8
Distance of Measurements:	3 Meters
Operating Frequency:	5835MHz
Channel:	167

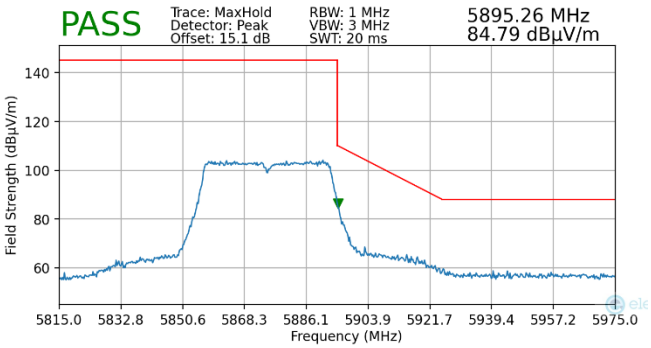


Plot 7-222. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11n
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5875MHz
Channel:	175



Plot 7-223. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-224. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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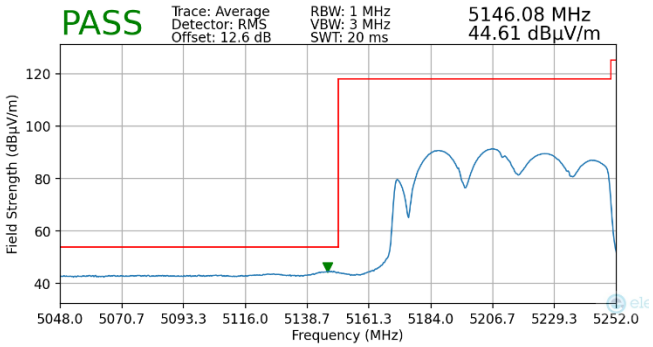
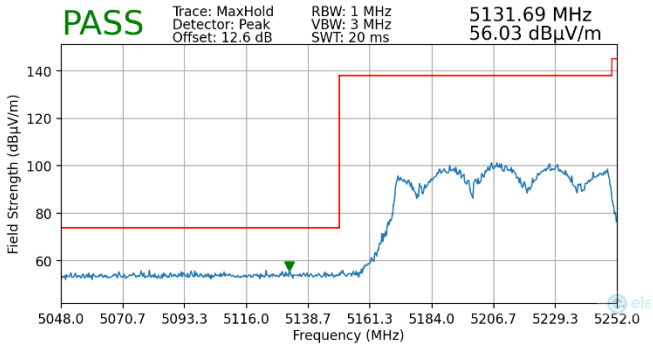
7.6.4 MIMO Radiated Band Edge Measurements (80MHz BW)

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

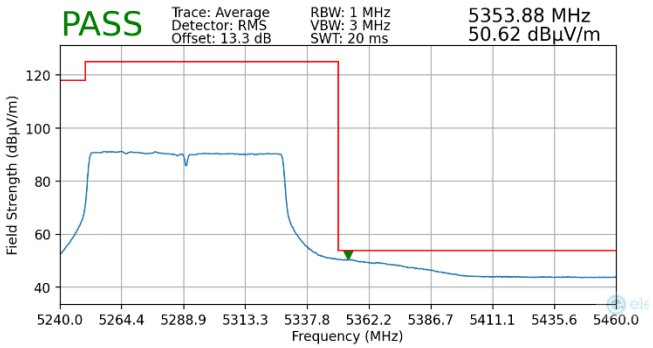


Plot 7-225. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

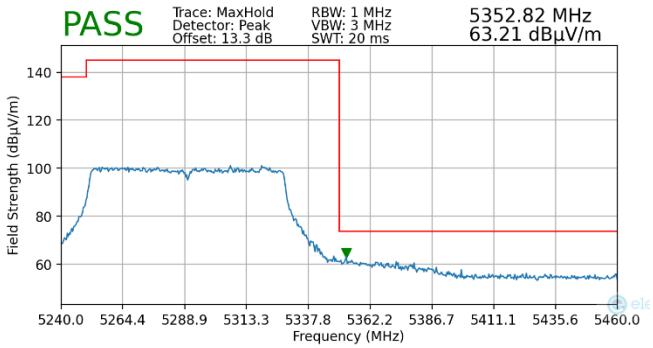


Plot 7-226. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

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



Plot 7-227. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-228. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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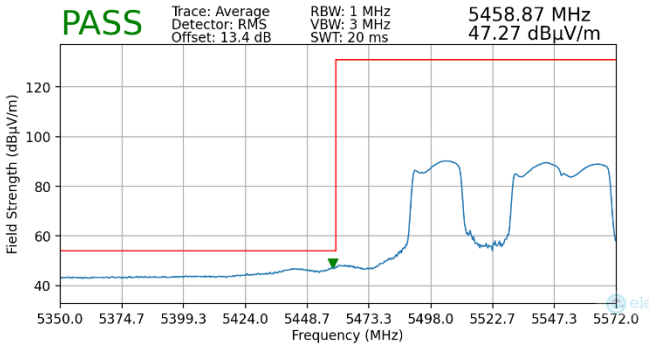
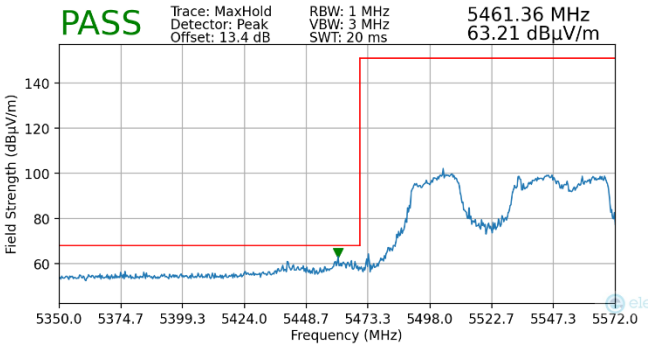
Worst Case Mode:	802.11be – Punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5530MHz
Channel:	106

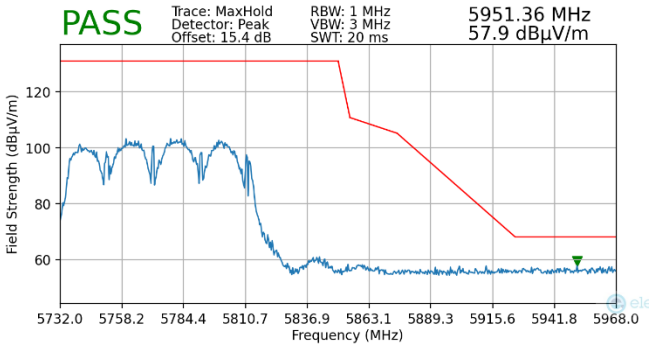


Plot 7-229. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-230. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

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



Plot 7-231. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)

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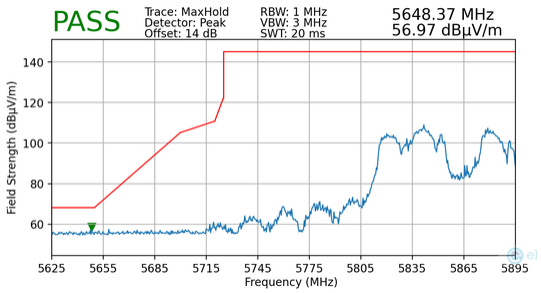
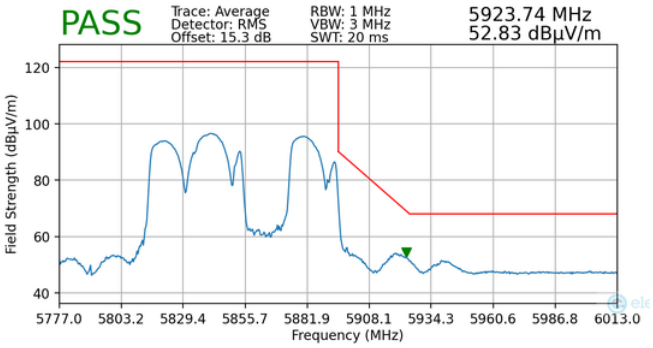
Worst Case Mode:	802.11be - punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171

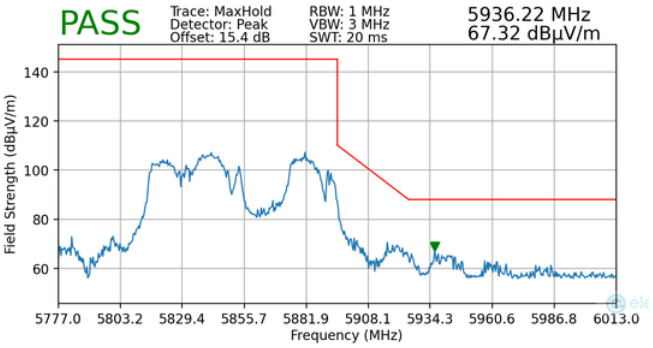


Plot 7-232. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

Worst Case Mode:	802.11be - punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5855MHz
Channel:	171



Plot 7-233. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-234. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 4)

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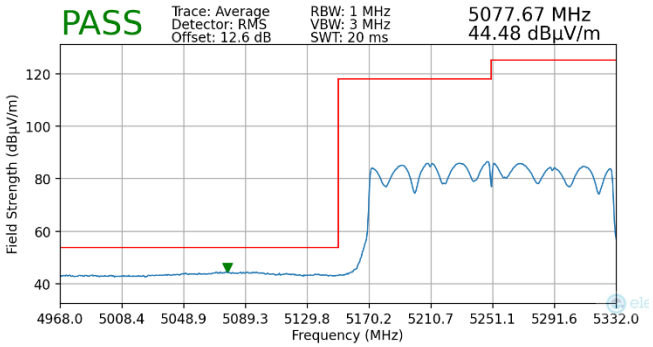
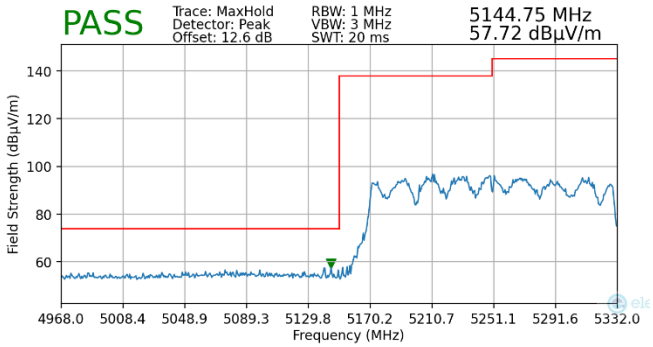
7.6.5 MIMO Radiated Band Edge Measurements (160MHz BW)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50

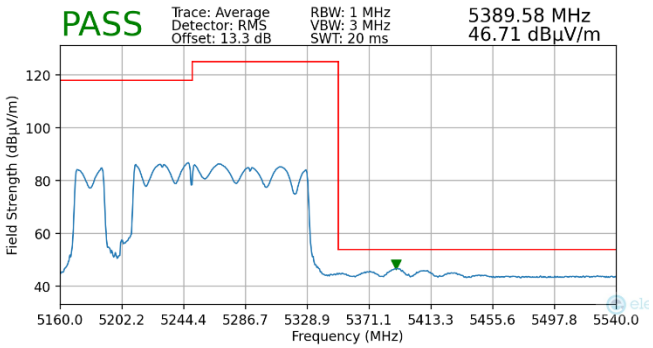


Plot 7-235. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)

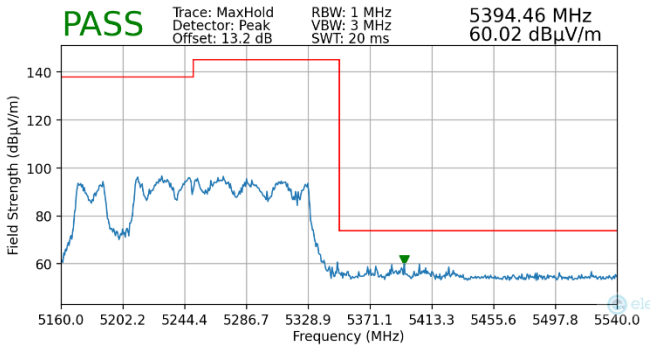


Plot 7-236. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)

Worst Case Mode:	802.11be - punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5250MHz
Channel:	50



Plot 7-237. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)



Plot 7-238. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)

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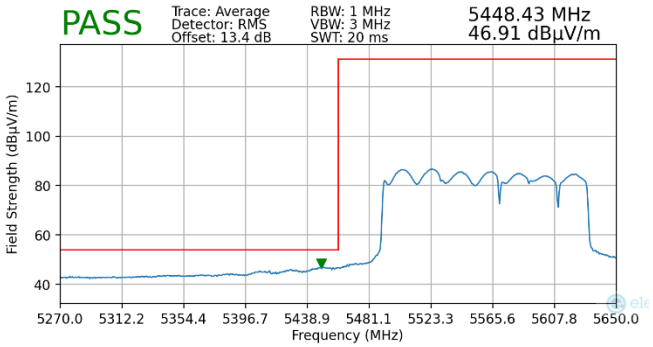
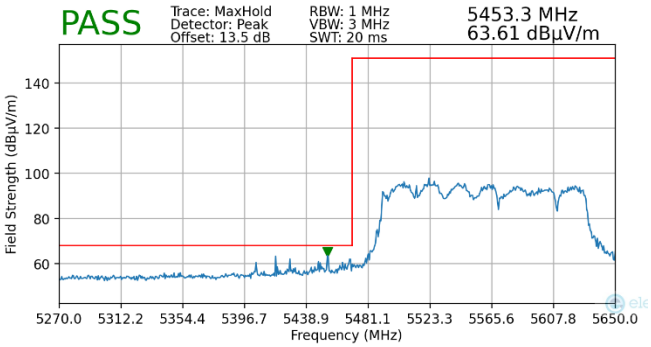
Worst Case Mode:	802.11be - punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5570MHz
Channel:	114

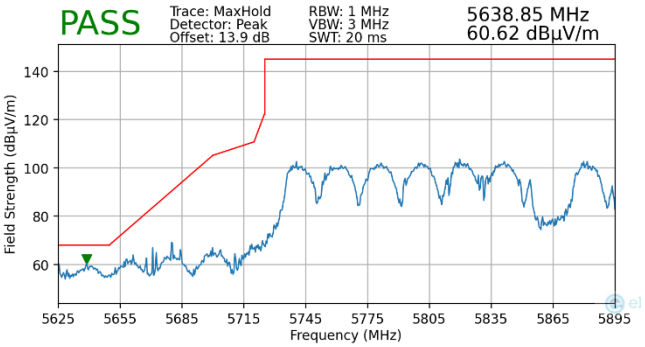


Plot 7-239. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)



Plot 7-240. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)

Worst Case Mode:	802.11be - punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



Plot 7-241. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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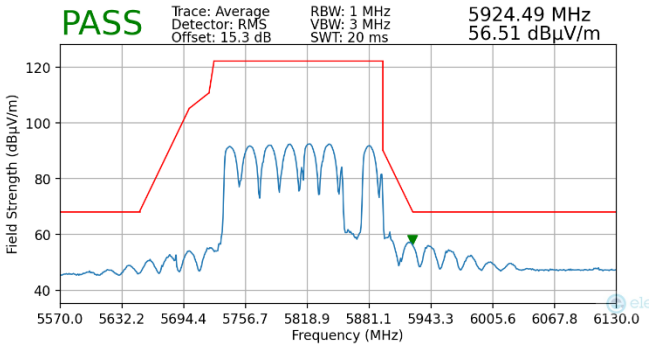
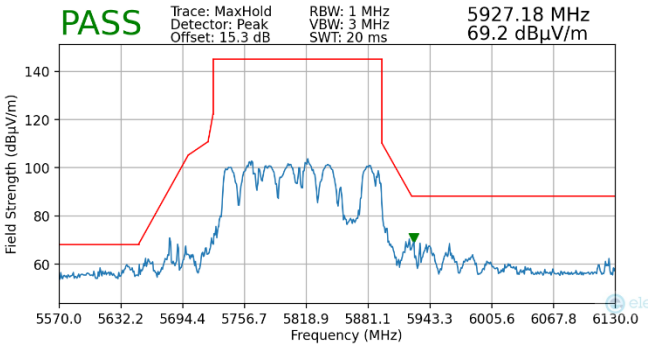
Worst Case Mode:	802.11be - punctured
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5815MHz
Channel:	163



Plot 7-242. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 4)



Plot 7-243. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 4)

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7.7 Line-Conducted Test Data

Test Overview and Limit

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

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

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

Table 7-37. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 6.2

Test Settings

Quasi-Peak Field Strength Measurements

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

Average Field Strength Measurements

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

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Test Setup

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

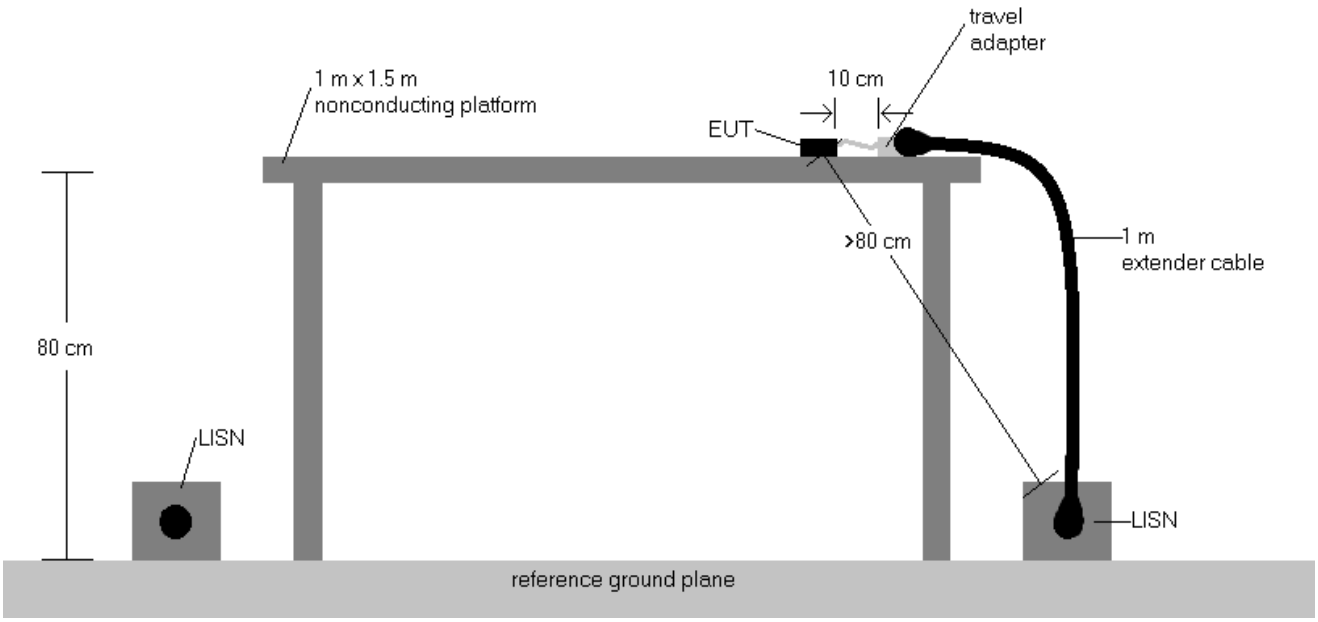

Figure 7-8. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated, and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz is specified in §15.207 and RSS-Gen (8.8).
3. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
4. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
5. Margin (dB) = QP/AV Limit (dBμV) - QP/AV Level (dBμV)
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

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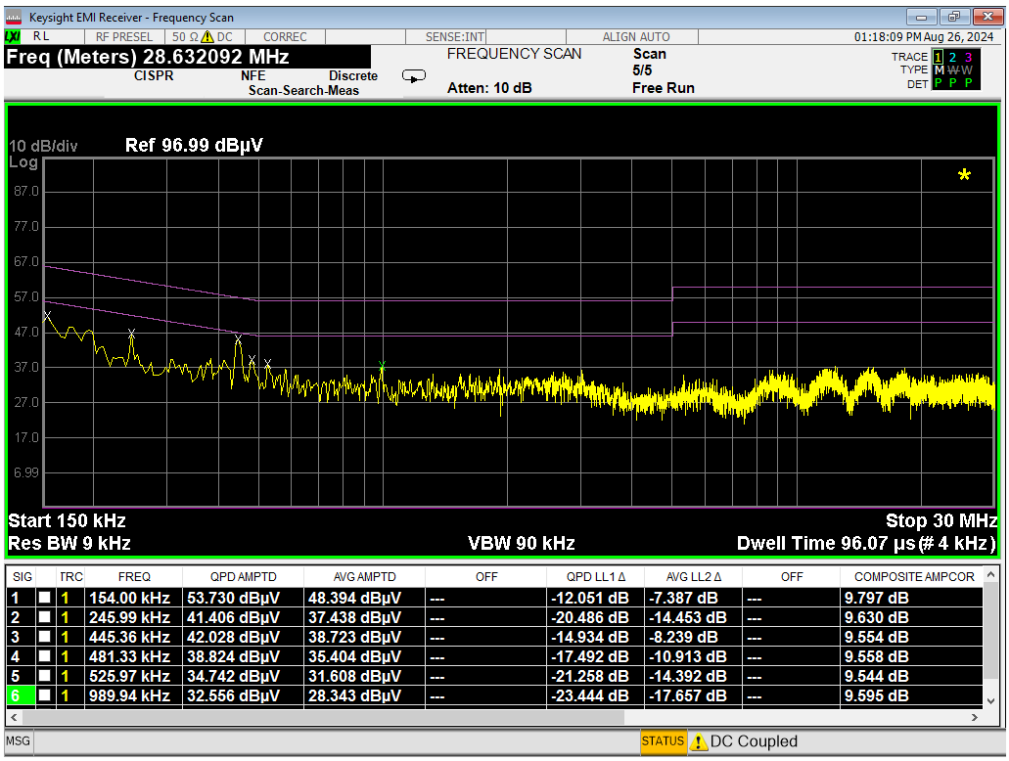
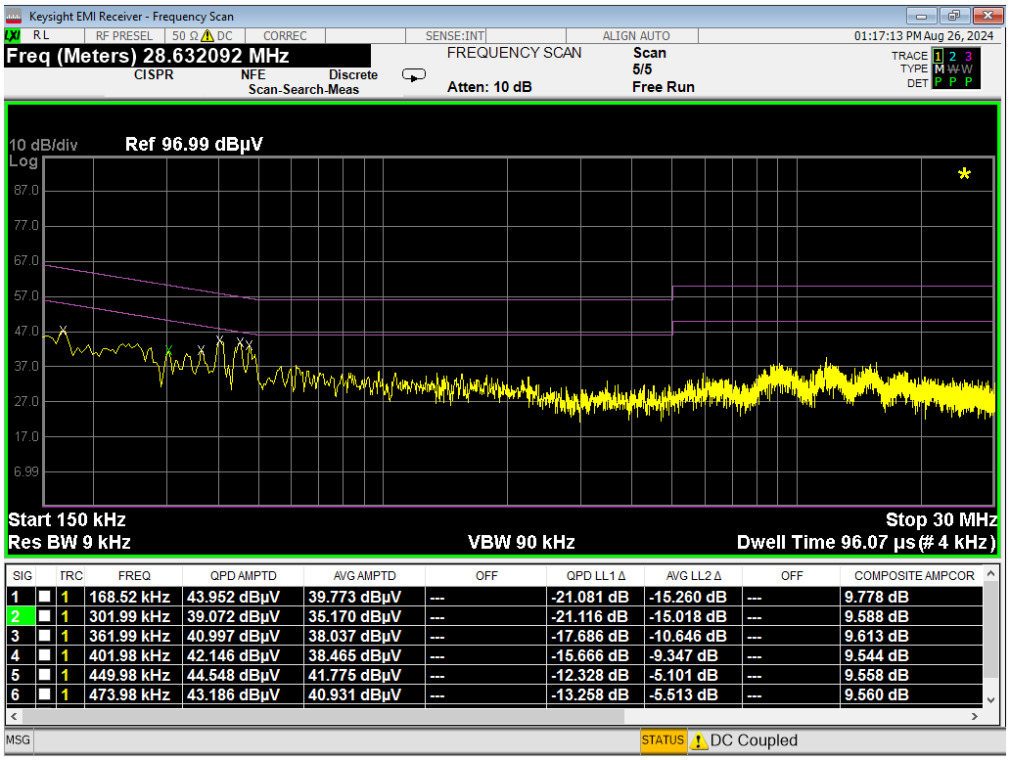


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	154.00 kHz	53.730 dBµV	48.394 dBµV	---	-12.051 dB	-7.387 dB	---	9.797 dB
2	1	245.99 kHz	41.406 dBµV	37.438 dBµV	---	-20.486 dB	-14.453 dB	---	9.630 dB
3	1	445.36 kHz	42.028 dBµV	38.723 dBµV	---	-14.934 dB	-8.239 dB	---	9.554 dB
4	1	481.33 kHz	38.824 dBµV	35.404 dBµV	---	-17.492 dB	-10.913 dB	---	9.558 dB
5	1	525.97 kHz	34.742 dBµV	31.608 dBµV	---	-21.258 dB	-14.392 dB	---	9.544 dB
6	1	989.94 kHz	32.556 dBµV	28.343 dBµV	---	-23.444 dB	-17.657 dB	---	9.595 dB

Plot 7-244. Line Conducted Plot with 802.11a UNII Band 1 (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	168.52 kHz	43.952 dBµV	39.773 dBµV	---	-21.081 dB	-15.260 dB	---	9.778 dB
2	1	301.99 kHz	39.072 dBµV	35.170 dBµV	---	-21.116 dB	-15.018 dB	---	9.588 dB
3	1	361.99 kHz	40.997 dBµV	38.037 dBµV	---	-17.686 dB	-10.646 dB	---	9.613 dB
4	1	401.98 kHz	42.146 dBµV	38.465 dBµV	---	-15.666 dB	-9.347 dB	---	9.544 dB
5	1	449.98 kHz	44.548 dBµV	41.775 dBµV	---	-12.328 dB	-5.101 dB	---	9.558 dB
6	1	473.98 kHz	43.186 dBµV	40.931 dBµV	---	-13.258 dB	-5.513 dB	---	9.560 dB

Plot 7-245. Line Conducted Plot with 802.11a UNII Band 1 (N)

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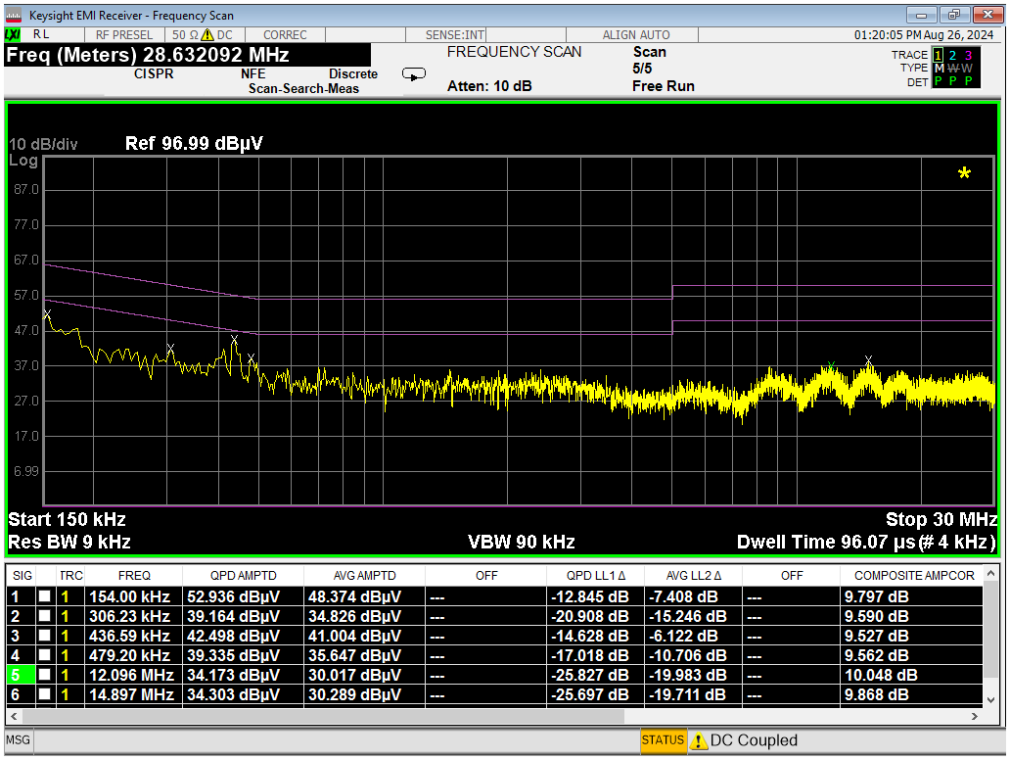
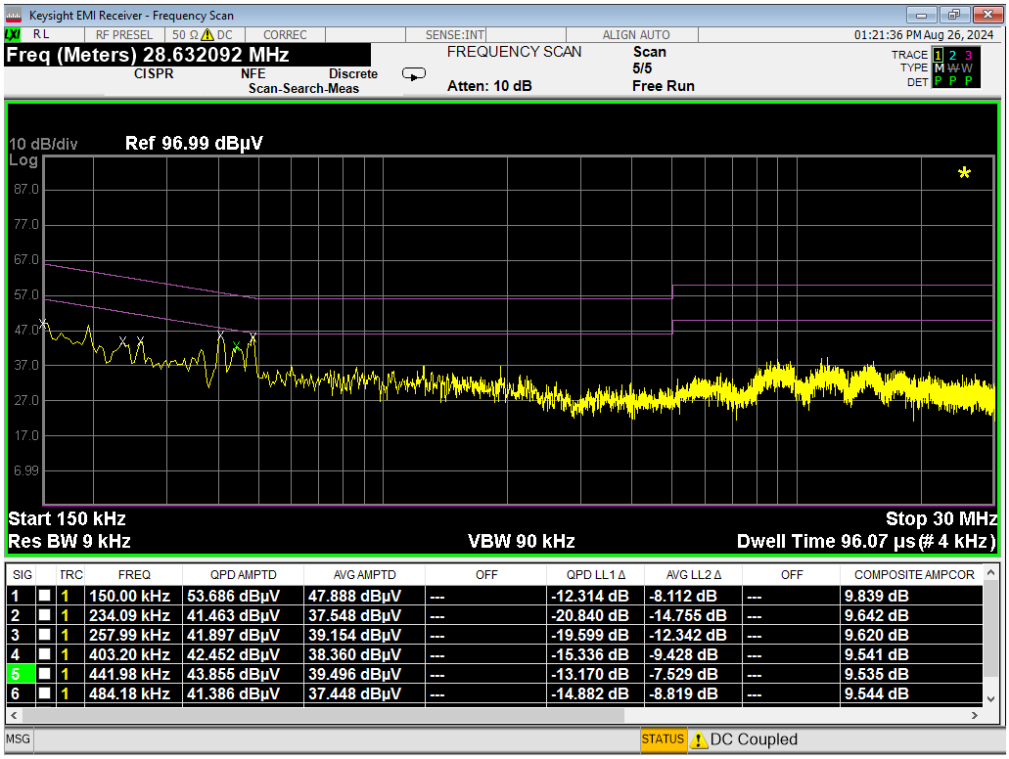


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	154.00 kHz	52.936 dBµV	48.374 dBµV	---	-12.845 dB	-7.408 dB	---	9.797 dB
2	1	306.23 kHz	39.164 dBµV	34.826 dBµV	---	-20.908 dB	-15.246 dB	---	9.590 dB
3	1	436.59 kHz	42.498 dBµV	41.004 dBµV	---	-14.628 dB	-6.122 dB	---	9.527 dB
4	1	479.20 kHz	39.335 dBµV	35.647 dBµV	---	-17.018 dB	-10.706 dB	---	9.562 dB
5	1	12.096 MHz	34.173 dBµV	30.017 dBµV	---	-25.827 dB	-19.983 dB	---	10.048 dB
6	1	14.897 MHz	34.303 dBµV	30.289 dBµV	---	-25.697 dB	-19.711 dB	---	9.868 dB

Plot 7-246. Line Conducted Plot with 802.11a UNII Band 2A (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	150.00 kHz	53.686 dBµV	47.888 dBµV	---	-12.314 dB	-8.112 dB	---	9.839 dB
2	1	234.09 kHz	41.463 dBµV	37.548 dBµV	---	-20.840 dB	-14.755 dB	---	9.642 dB
3	1	257.99 kHz	41.897 dBµV	39.154 dBµV	---	-19.599 dB	-12.342 dB	---	9.620 dB
4	1	403.20 kHz	42.452 dBµV	38.360 dBµV	---	-15.336 dB	-9.428 dB	---	9.541 dB
5	1	441.98 kHz	43.855 dBµV	39.496 dBµV	---	-13.170 dB	-7.529 dB	---	9.535 dB
6	1	484.18 kHz	41.386 dBµV	37.448 dBµV	---	-14.882 dB	-8.819 dB	---	9.544 dB

Plot 7-247. Line Conducted Plot with 802.11a UNII Band 2A (N)

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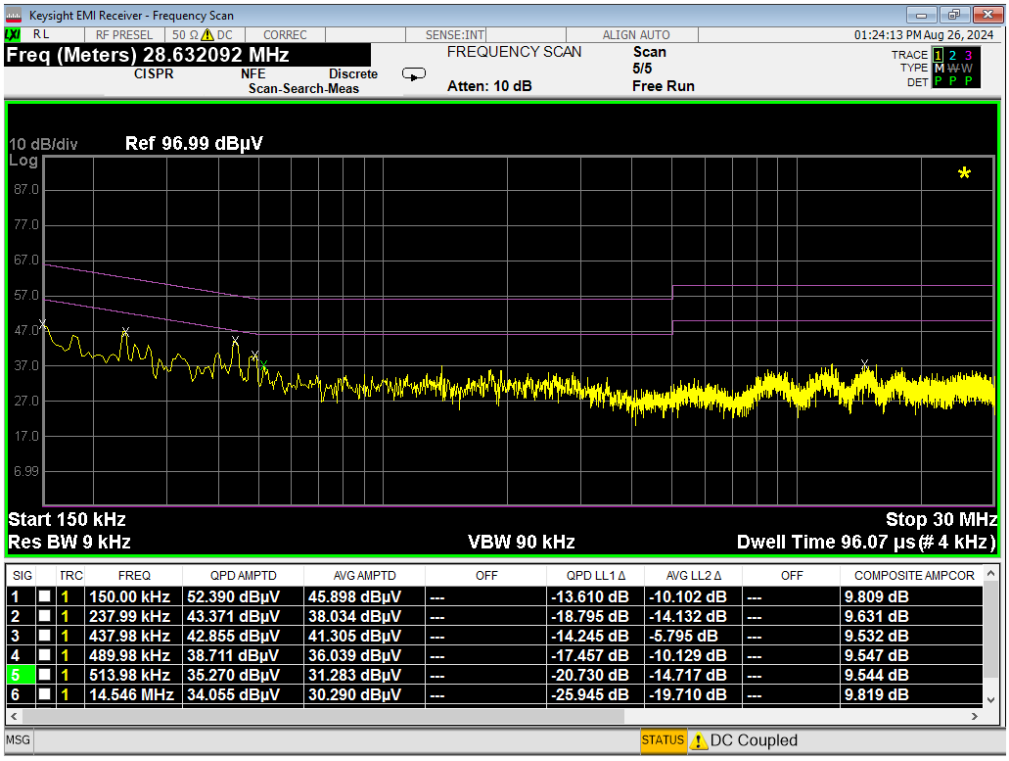
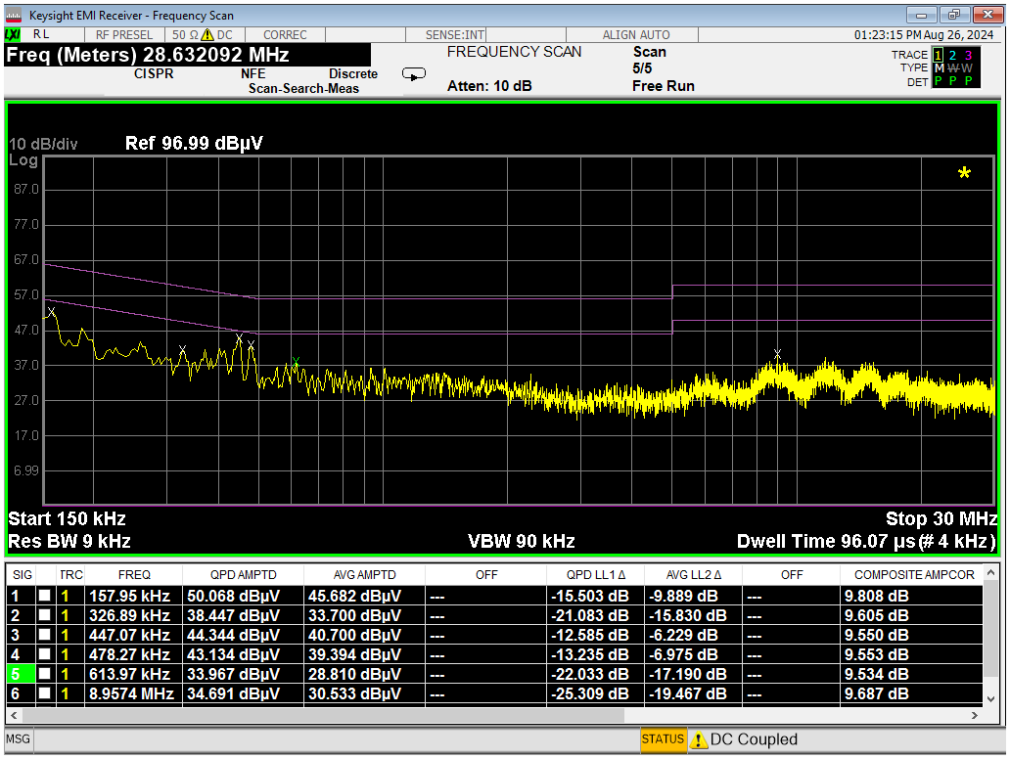


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	150.00 kHz	52.390 dBµV	45.898 dBµV	---	-13.610 dB	-10.102 dB	---	9.809 dB
2	1	237.99 kHz	43.371 dBµV	38.034 dBµV	---	-18.795 dB	-14.132 dB	---	9.631 dB
3	1	437.98 kHz	42.855 dBµV	41.305 dBµV	---	-14.245 dB	-5.795 dB	---	9.532 dB
4	1	489.98 kHz	38.711 dBµV	36.039 dBµV	---	-17.457 dB	-10.129 dB	---	9.547 dB
5	1	513.98 kHz	35.270 dBµV	31.283 dBµV	---	-20.730 dB	-14.717 dB	---	9.544 dB
6	1	14.546 MHz	34.055 dBµV	30.290 dBµV	---	-25.945 dB	-19.710 dB	---	9.819 dB

Plot 7-248. Line Conducted Plot with 802.11a UNII Band 2C (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	157.95 kHz	50.068 dBµV	45.682 dBµV	---	-15.503 dB	-9.889 dB	---	9.808 dB
2	1	326.89 kHz	38.447 dBµV	33.700 dBµV	---	-21.083 dB	-15.830 dB	---	9.605 dB
3	1	447.07 kHz	44.344 dBµV	40.700 dBµV	---	-12.585 dB	-6.229 dB	---	9.550 dB
4	1	478.27 kHz	43.134 dBµV	39.394 dBµV	---	-13.235 dB	-6.975 dB	---	9.553 dB
5	1	613.97 kHz	33.967 dBµV	28.810 dBµV	---	-22.033 dB	-17.190 dB	---	9.534 dB
6	1	8.9574 MHz	34.691 dBµV	30.533 dBµV	---	-25.309 dB	-19.467 dB	---	9.687 dB

Plot 7-249. Line Conducted Plot with 802.11a UNII Band 2C (N)

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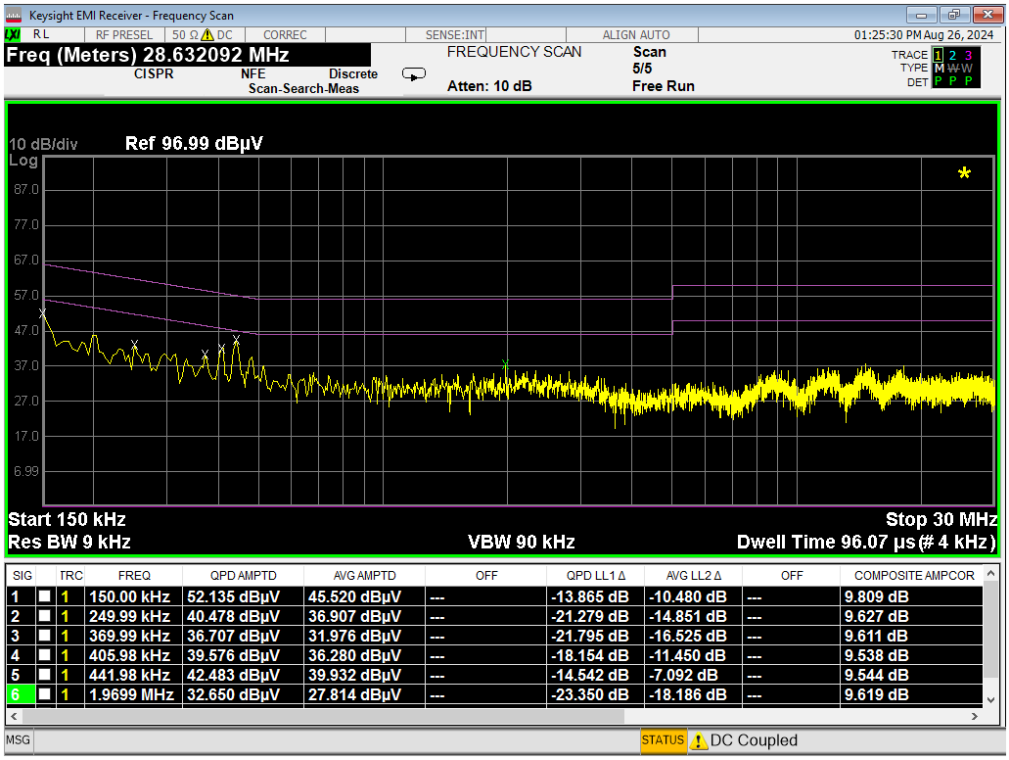
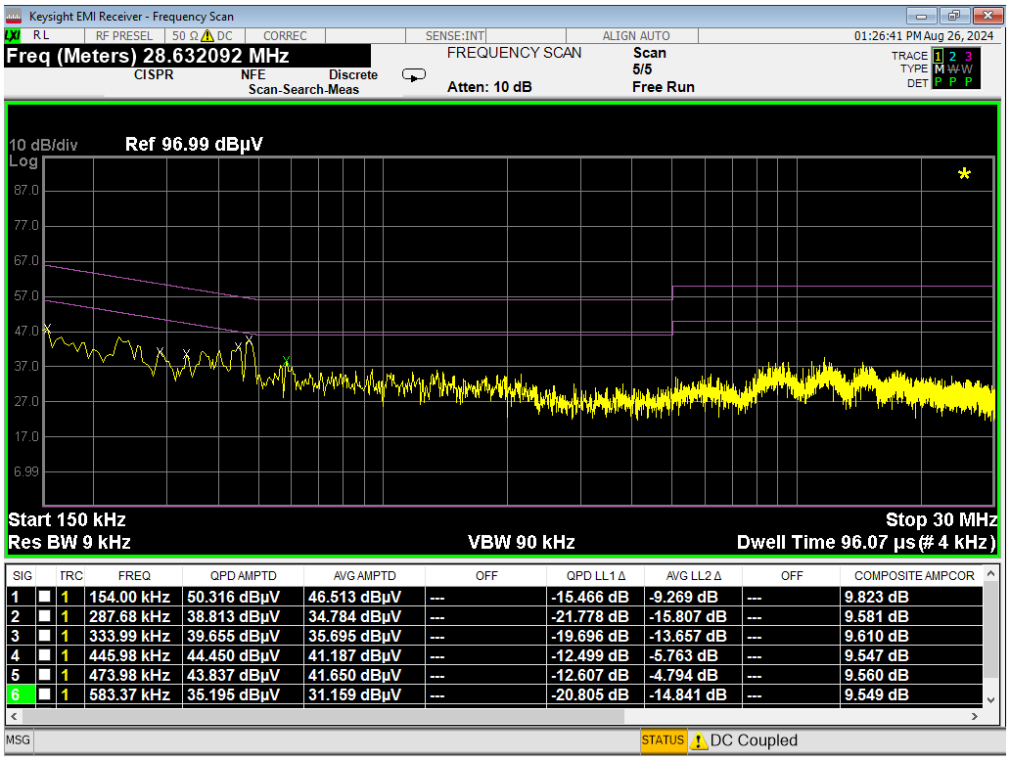


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	150.00 kHz	52.135 dBµV	45.520 dBµV	---	-13.865 dB	-10.480 dB	---	9.809 dB
2	1	249.99 kHz	40.478 dBµV	36.907 dBµV	---	-21.279 dB	-14.851 dB	---	9.627 dB
3	1	369.99 kHz	36.707 dBµV	31.976 dBµV	---	-21.795 dB	-16.525 dB	---	9.611 dB
4	1	405.98 kHz	39.576 dBµV	36.280 dBµV	---	-18.154 dB	-11.450 dB	---	9.538 dB
5	1	441.98 kHz	42.483 dBµV	39.932 dBµV	---	-14.542 dB	-7.092 dB	---	9.544 dB
6	1	1.9699 MHz	32.650 dBµV	27.814 dBµV	---	-23.350 dB	-18.186 dB	---	9.619 dB

Plot 7-250. Line Conducted Plot with 802.11a UNII Band 3 (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	154.00 kHz	50.316 dBµV	46.513 dBµV	---	-15.466 dB	-9.269 dB	---	9.823 dB
2	1	287.68 kHz	38.813 dBµV	34.784 dBµV	---	-21.778 dB	-15.807 dB	---	9.581 dB
3	1	333.99 kHz	39.655 dBµV	35.695 dBµV	---	-19.696 dB	-13.657 dB	---	9.610 dB
4	1	445.98 kHz	44.450 dBµV	41.187 dBµV	---	-12.499 dB	-5.763 dB	---	9.547 dB
5	1	473.98 kHz	43.837 dBµV	41.650 dBµV	---	-12.607 dB	-4.794 dB	---	9.560 dB
6	1	583.37 kHz	35.195 dBµV	31.159 dBµV	---	-20.805 dB	-14.841 dB	---	9.549 dB

Plot 7-251. Line Conducted Plot with 802.11a UNII Band 3 (N)

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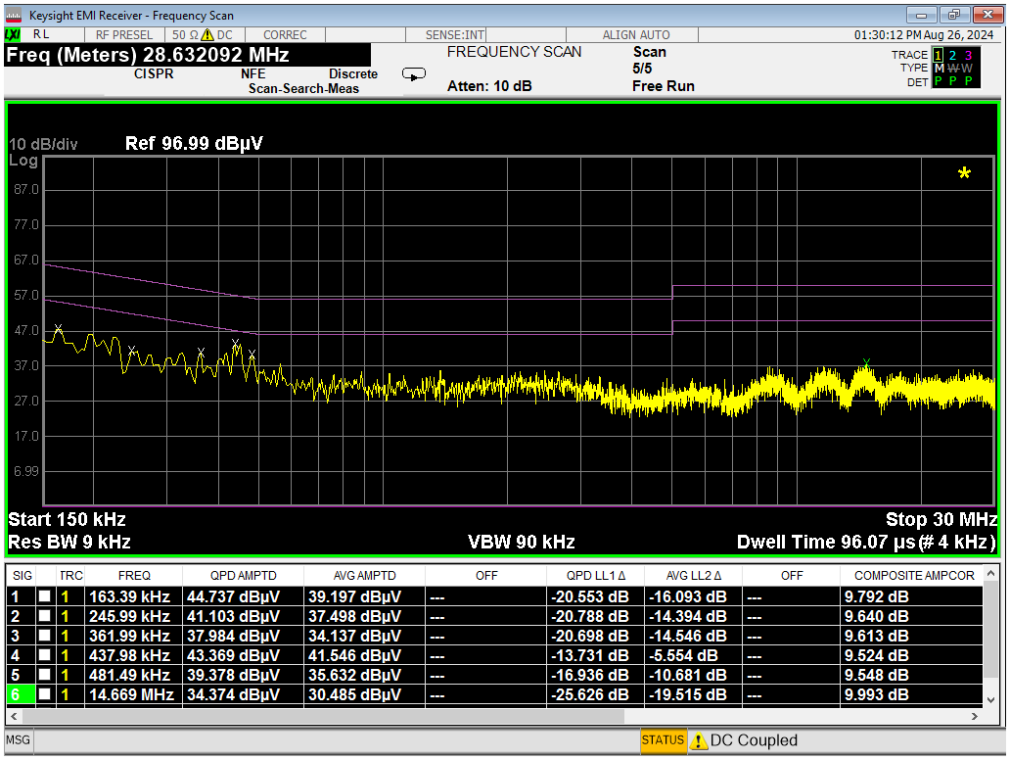
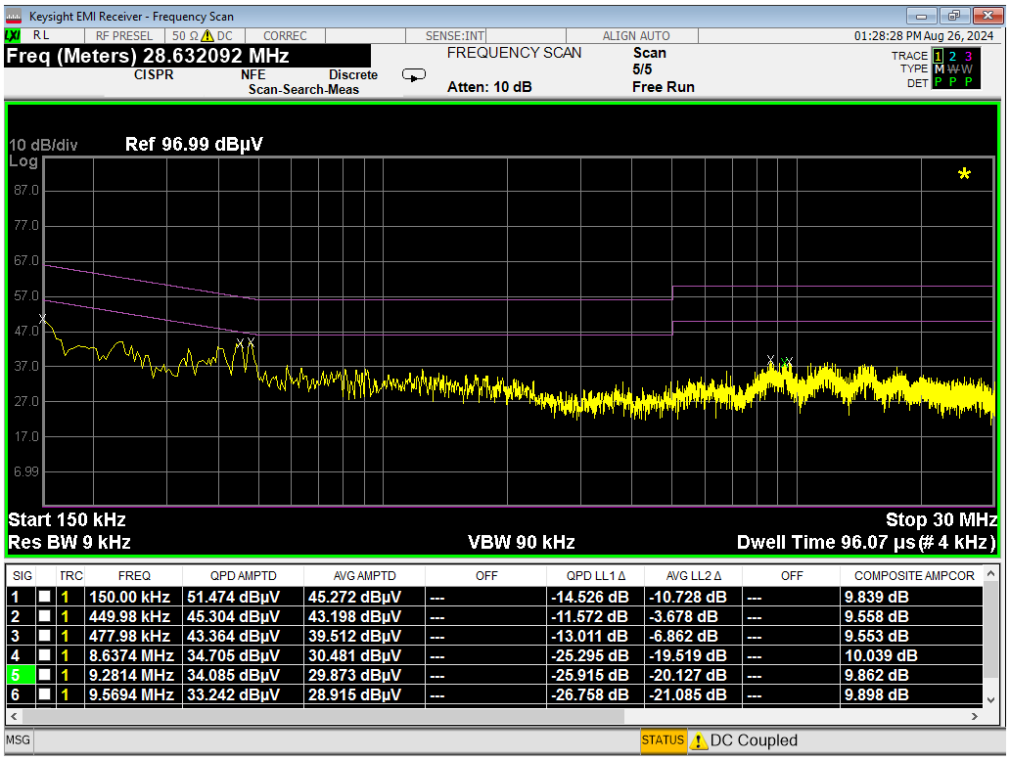


SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	163.39 kHz	44.737 dBµV	39.197 dBµV	---	-20.553 dB	-16.093 dB	---	9.792 dB
2	1	245.99 kHz	41.103 dBµV	37.498 dBµV	---	-20.788 dB	-14.394 dB	---	9.640 dB
3	1	361.99 kHz	37.984 dBµV	34.137 dBµV	---	-20.698 dB	-14.546 dB	---	9.613 dB
4	1	437.98 kHz	43.369 dBµV	41.546 dBµV	---	-13.731 dB	-5.554 dB	---	9.524 dB
5	1	481.49 kHz	39.378 dBµV	35.632 dBµV	---	-16.936 dB	-10.681 dB	---	9.548 dB
6	1	14.669 MHz	34.374 dBµV	30.485 dBµV	---	-25.626 dB	-19.515 dB	---	9.993 dB

Plot 7-252. Line Conducted Plot with 802.11a UNII Band 4 (L1)



SIG	TRC	FREQ	QPD AMPTD	AVG AMPTD	OFF	QPD LL1 Δ	AVG LL2 Δ	OFF	COMPOSITE AMPCOR
1	1	150.00 kHz	51.474 dBµV	45.272 dBµV	---	-14.526 dB	-10.728 dB	---	9.839 dB
2	1	449.98 kHz	45.304 dBµV	43.198 dBµV	---	-11.572 dB	-3.678 dB	---	9.558 dB
3	1	477.98 kHz	43.364 dBµV	39.512 dBµV	---	-13.011 dB	-6.862 dB	---	9.553 dB
4	1	8.6374 MHz	34.705 dBµV	30.481 dBµV	---	-25.295 dB	-19.519 dB	---	10.039 dB
5	1	9.2814 MHz	34.085 dBµV	29.873 dBµV	---	-25.915 dB	-20.127 dB	---	9.862 dB
6	1	9.5694 MHz	33.242 dBµV	28.915 dBµV	---	-26.758 dB	-21.085 dB	---	9.898 dB

Plot 7-253. Line Conducted Plot with 802.11a UNII Band 4 (N)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Computing Device FCC ID: A3LNP750XQA** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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