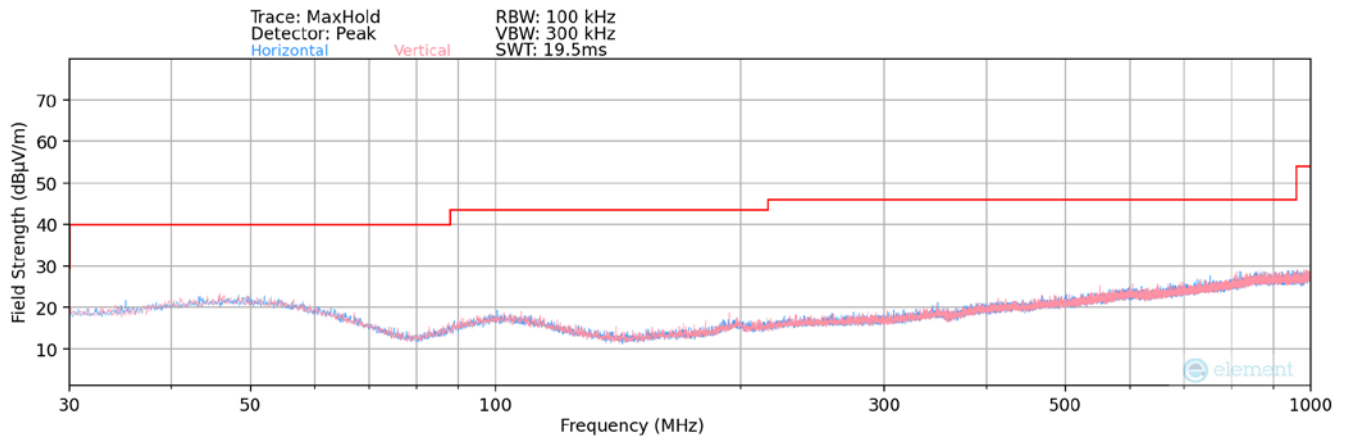
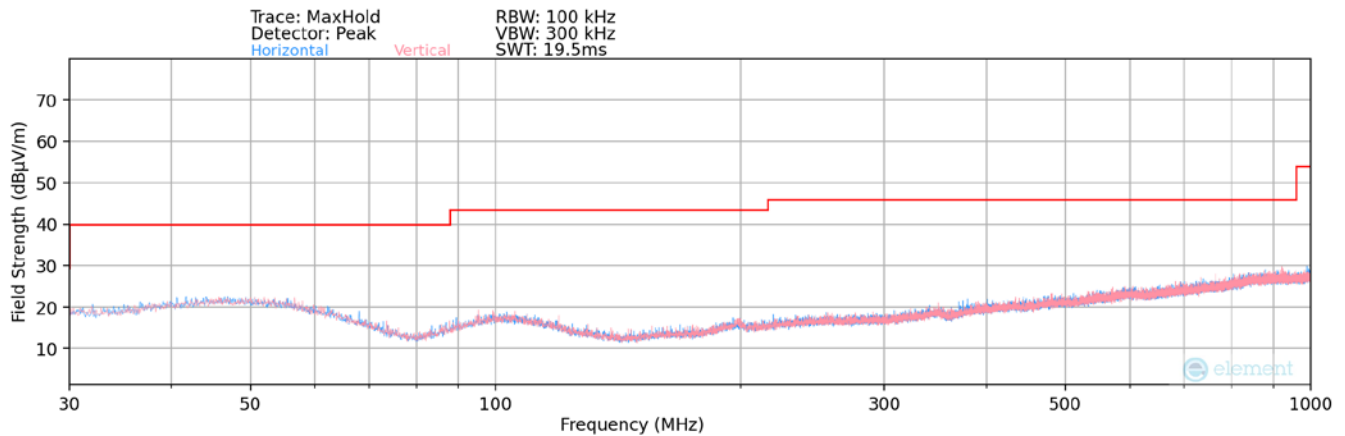


## Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz)

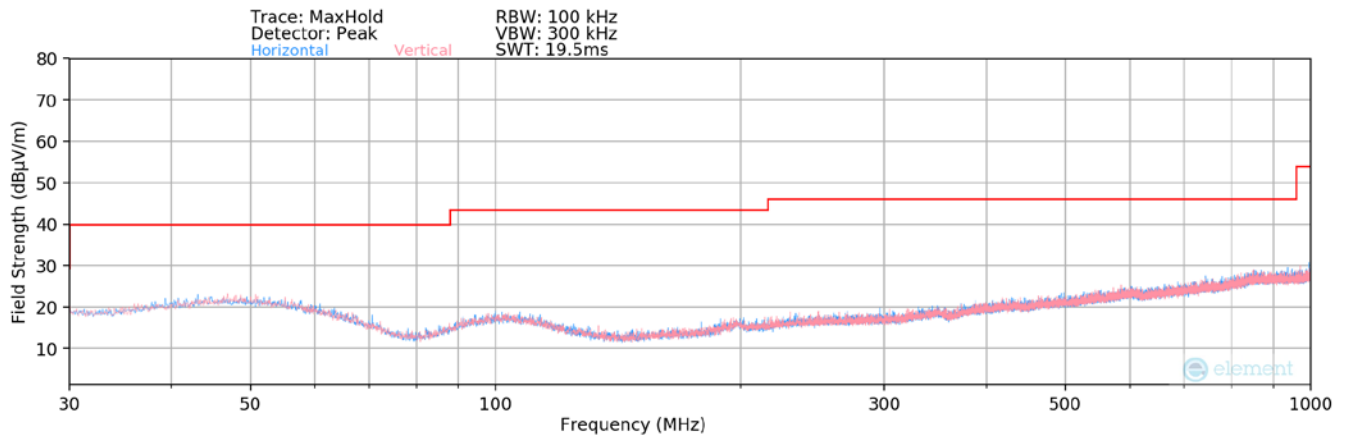
§15.209; RSS-Gen [8.9]



Plot 7-494. Radiated Spurious Plot below 1GHz (2.4GHz – 5GHz)



Plot 7-495. Radiated Spurious Plot below 1GHz (5GHz – 2.4 GHz)



Plot 7-496. Radiated Spurious Plot below 1GHz (Dual Band Simult. Tx)

## 7.8 Line-Conducted Test Data

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## §15.407; RSS-Gen [8.8]

### Test Overview and Limit

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

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

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

**Table 7-70. 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

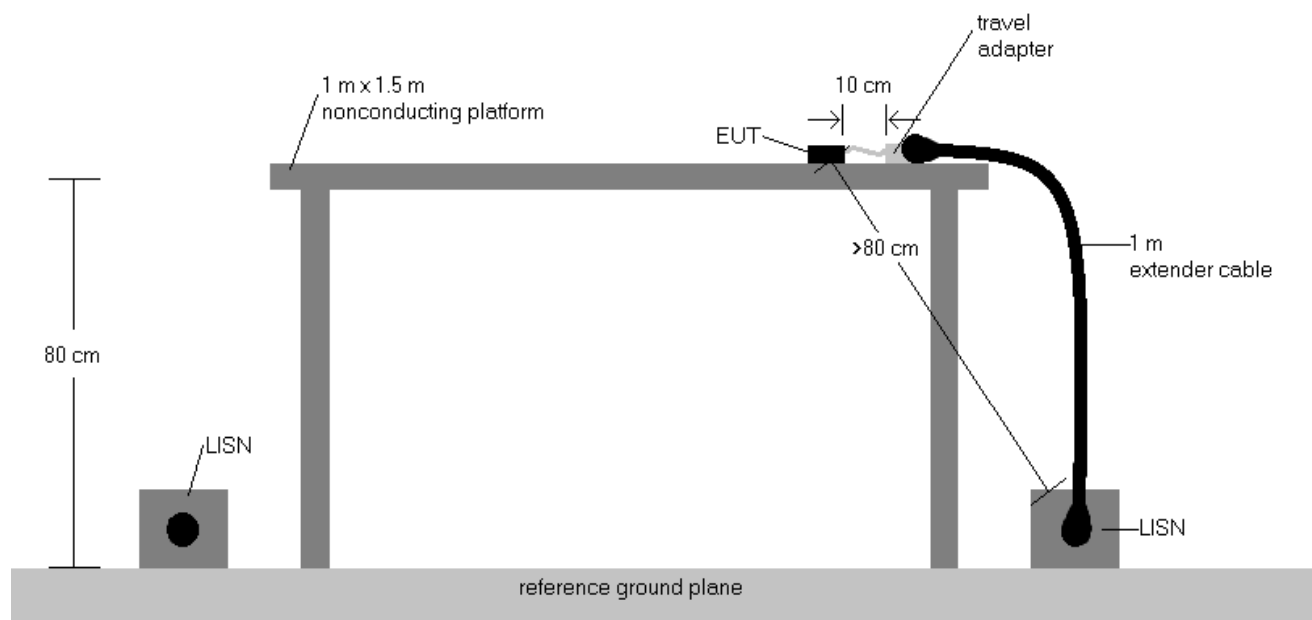
1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

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## Test Setup

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



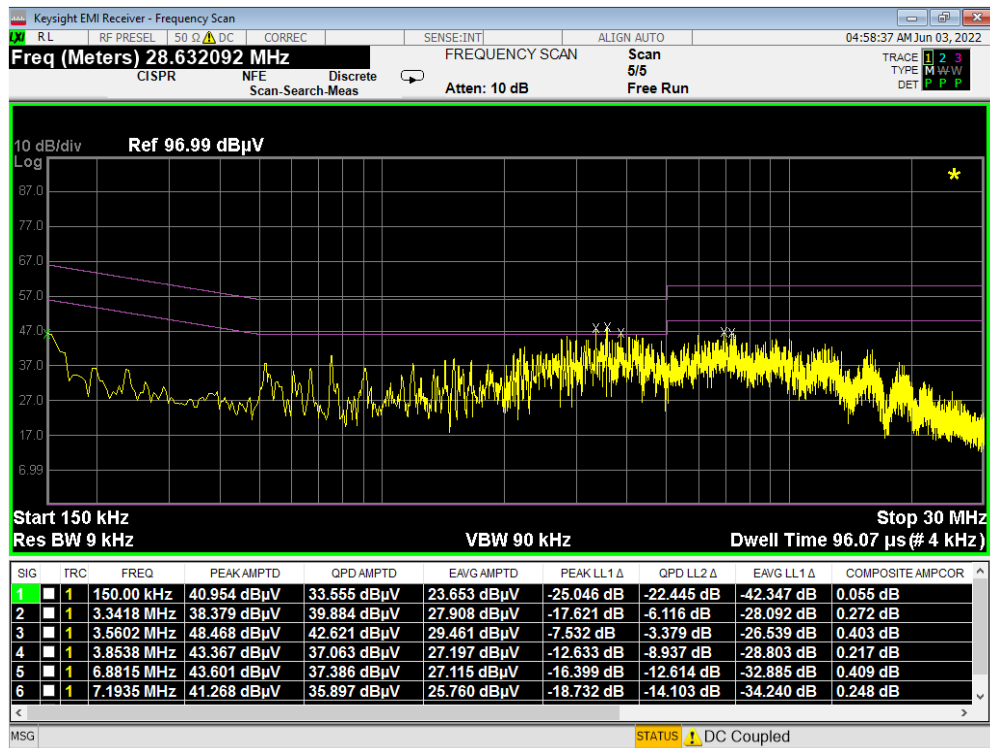
**Figure 7-8. Test Instrument & Measurement Setup**

## Test Notes

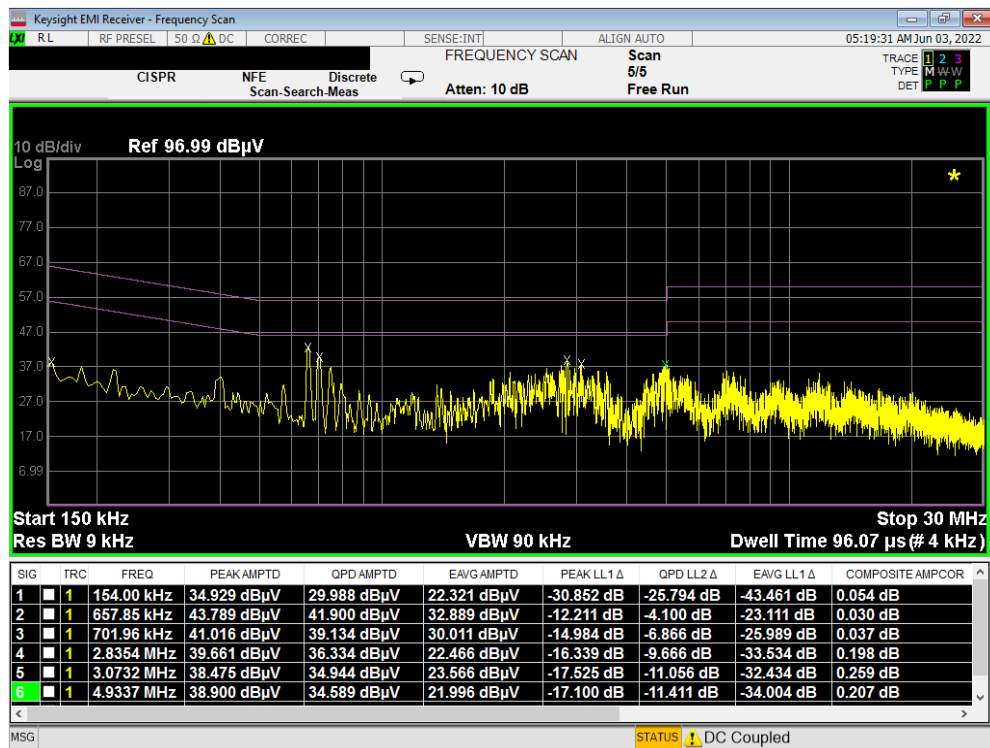
1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3.  $\text{Corr.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

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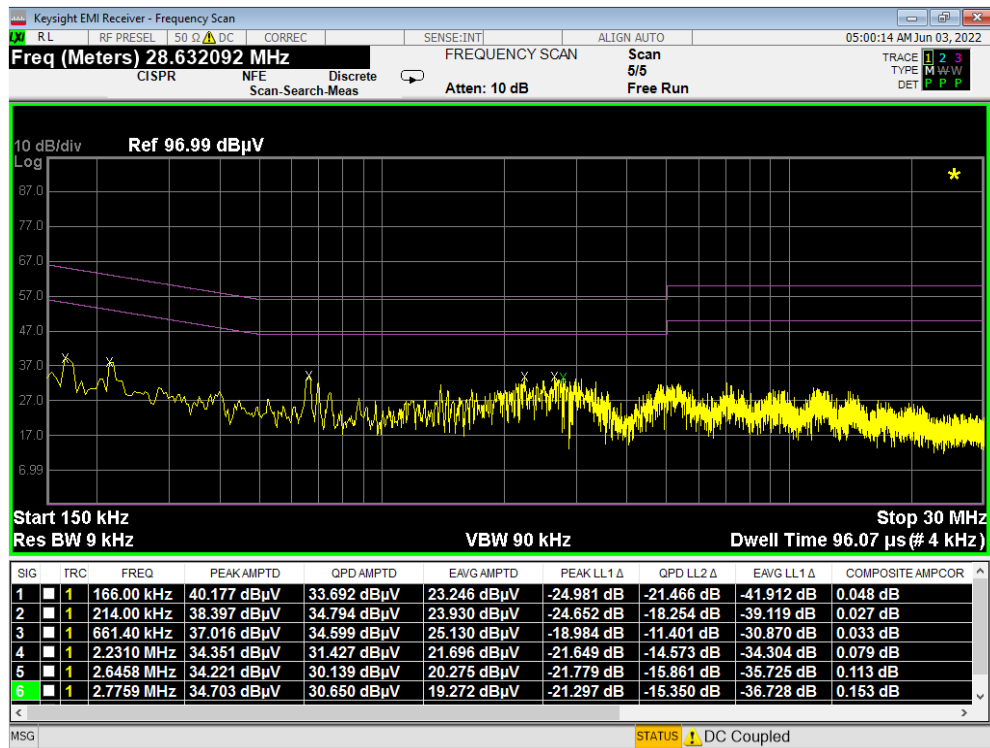


Plot 7-497. Line Conducted Plot with 802.11a UNII Band 1 (L1) – Open

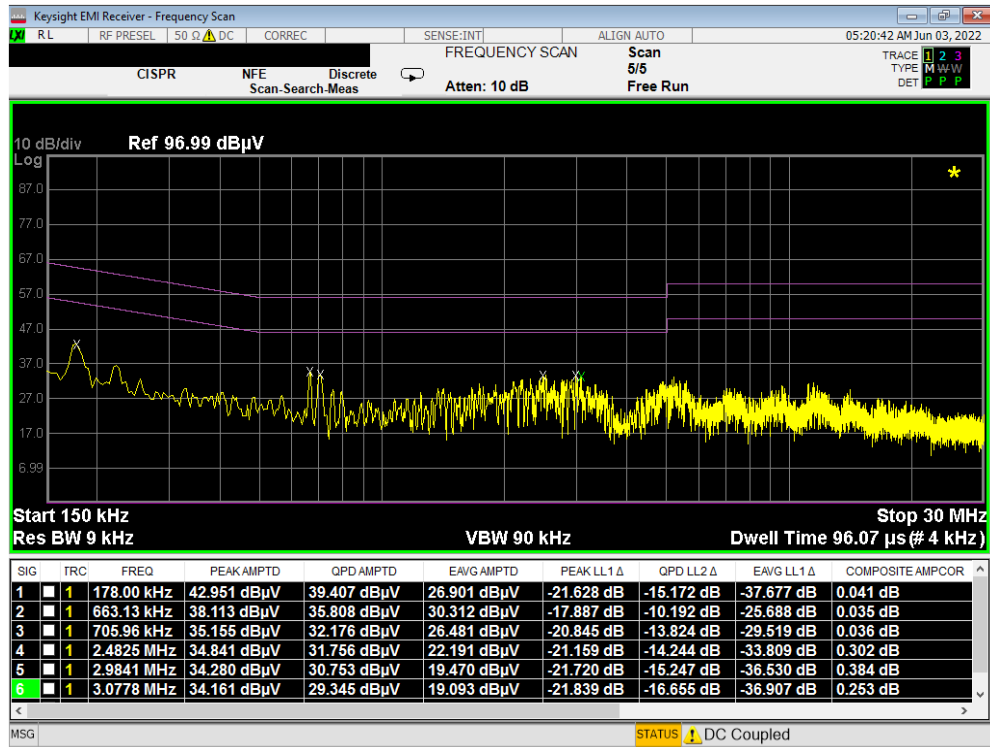


Plot 7-498. Line Conducted Plot with 802.11a UNII Band 1 (L1) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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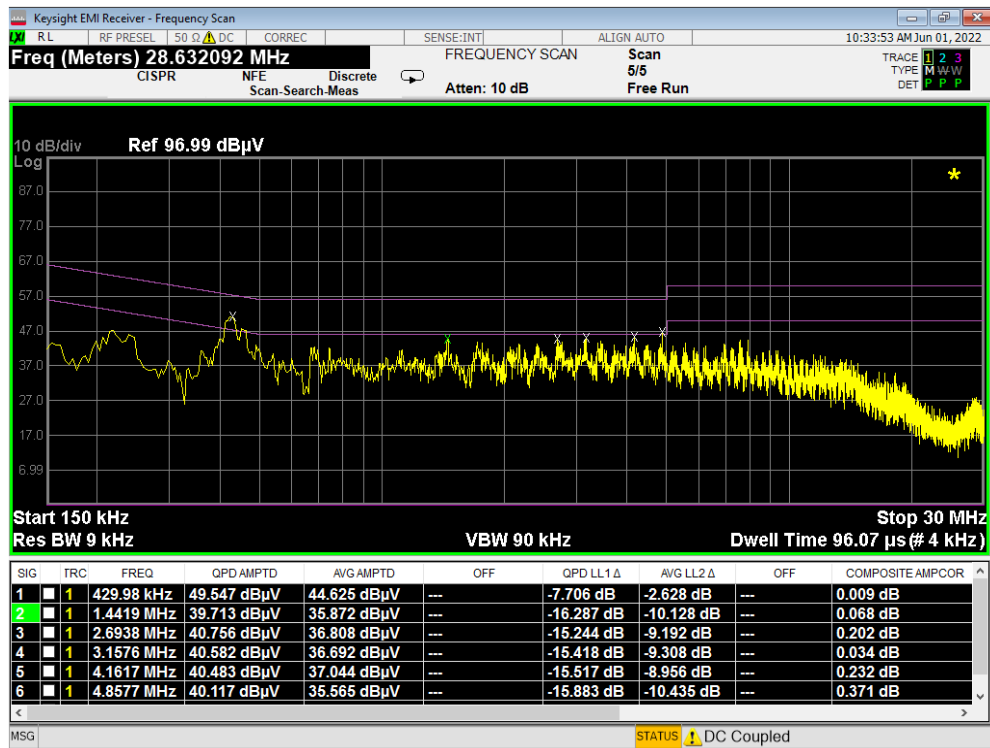


Plot 7-499. Line Conducted Plot with 802.11a UNII Band 1 (N) – Open

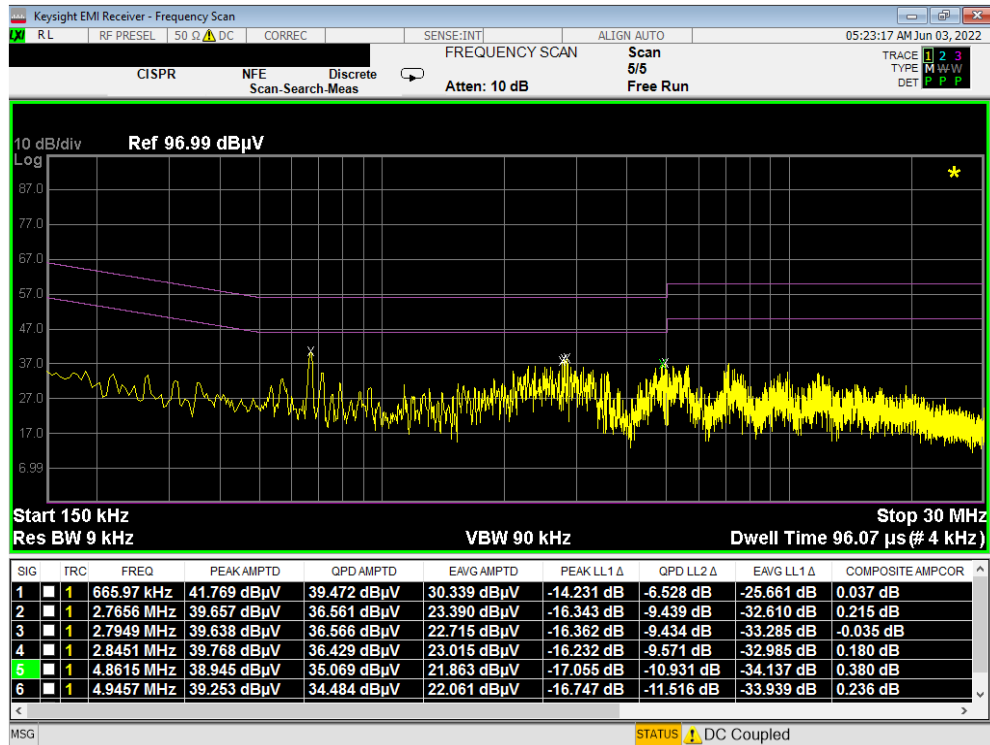


Plot 7-500. Line Conducted Plot with 802.11a UNII Band 1 (N) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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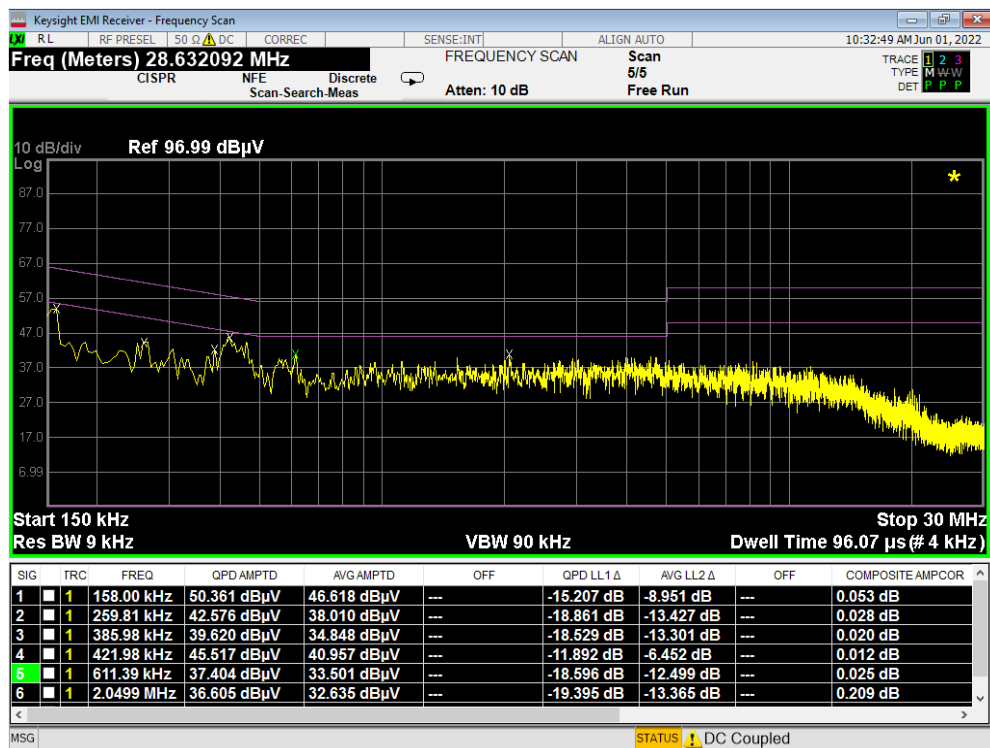


Plot 7-501. Line Conducted Plot with 802.11a UNII Band 2A (L1) – Open

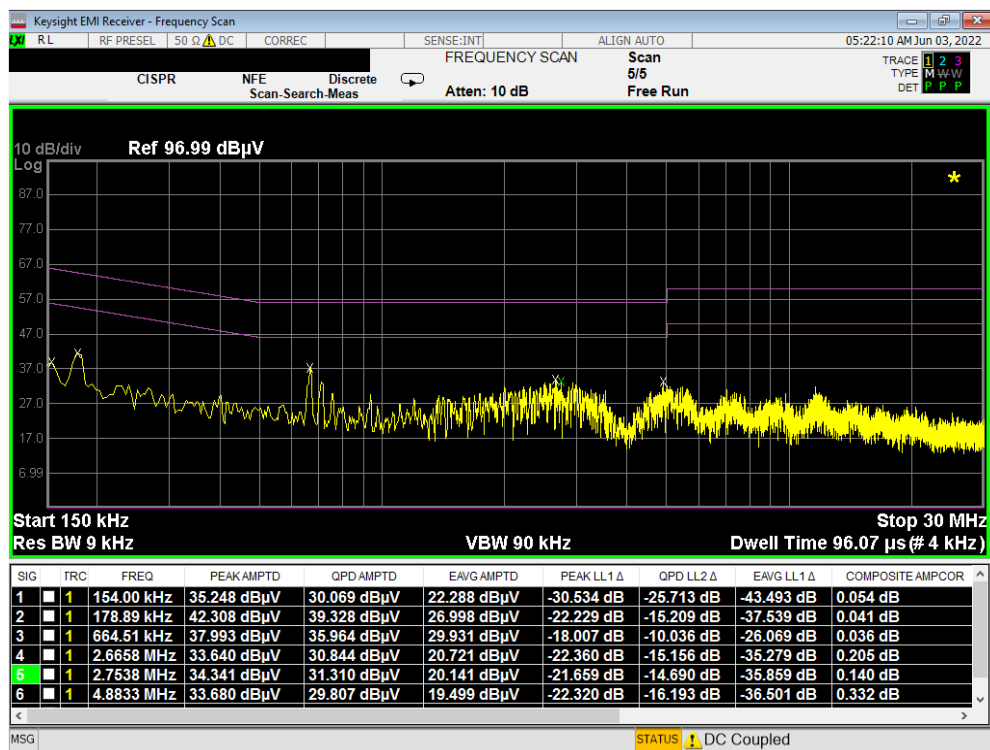


Plot 7-502. Line Conducted Plot with 802.11a UNII Band 2A (L1) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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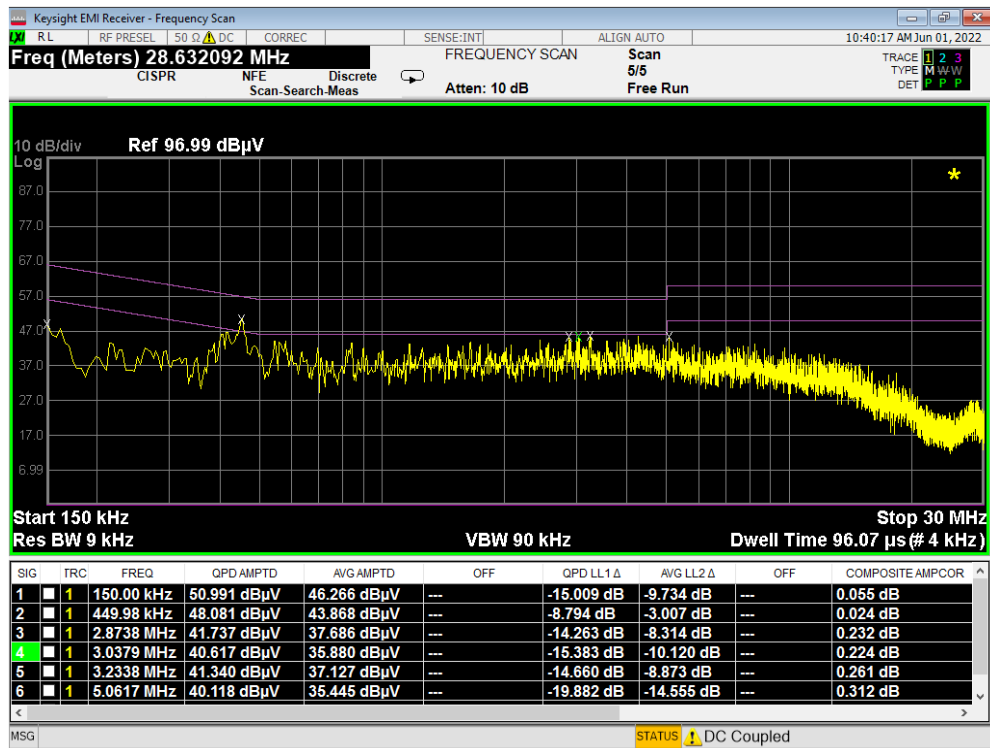


Plot 7-503. Line Conducted Plot with 802.11a UNII Band 2A (N) – Open

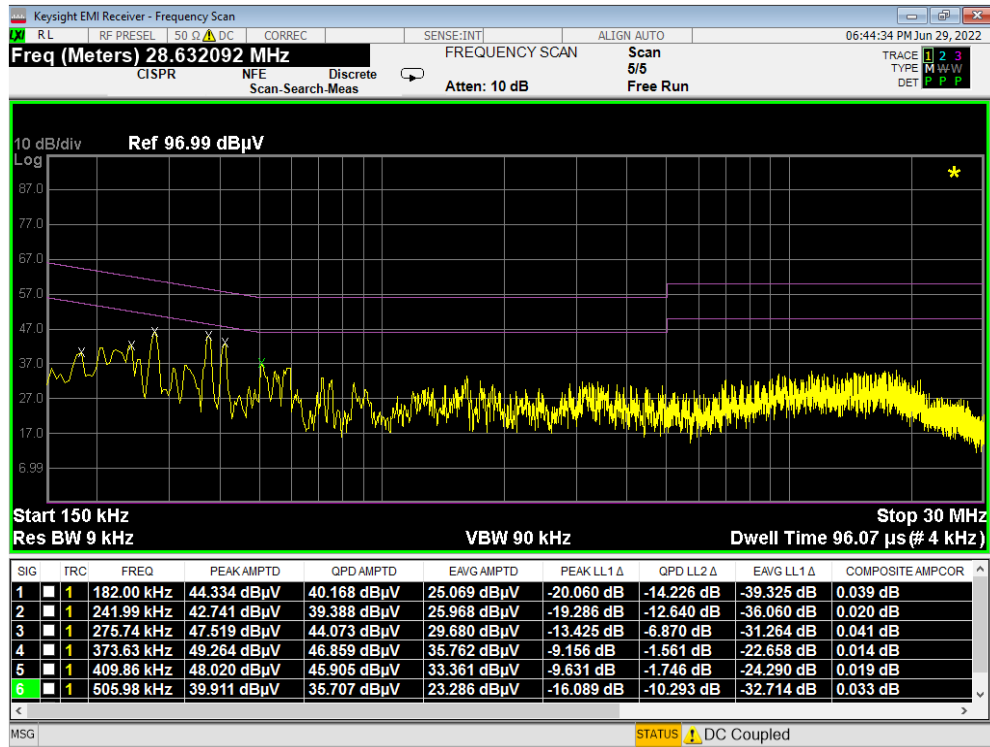


Plot 7-504. Line Conducted Plot with 802.11a UNII Band 2A (N) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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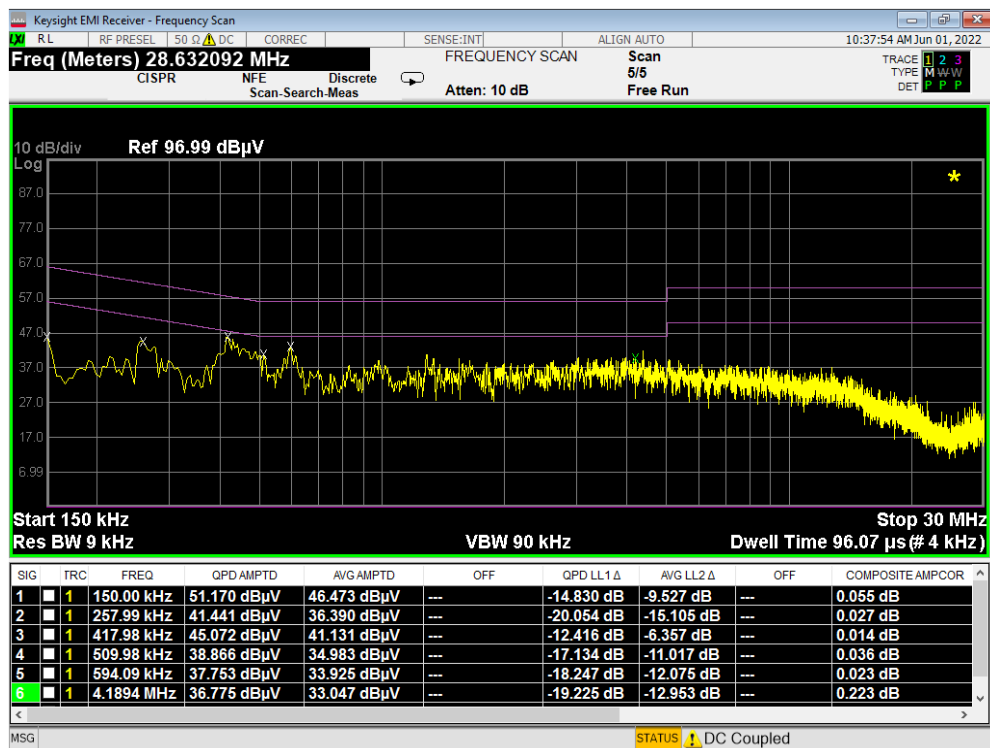
Plot 7-505. Line Conducted Plot with 802.11a UNII Band 2C (L1) – Open



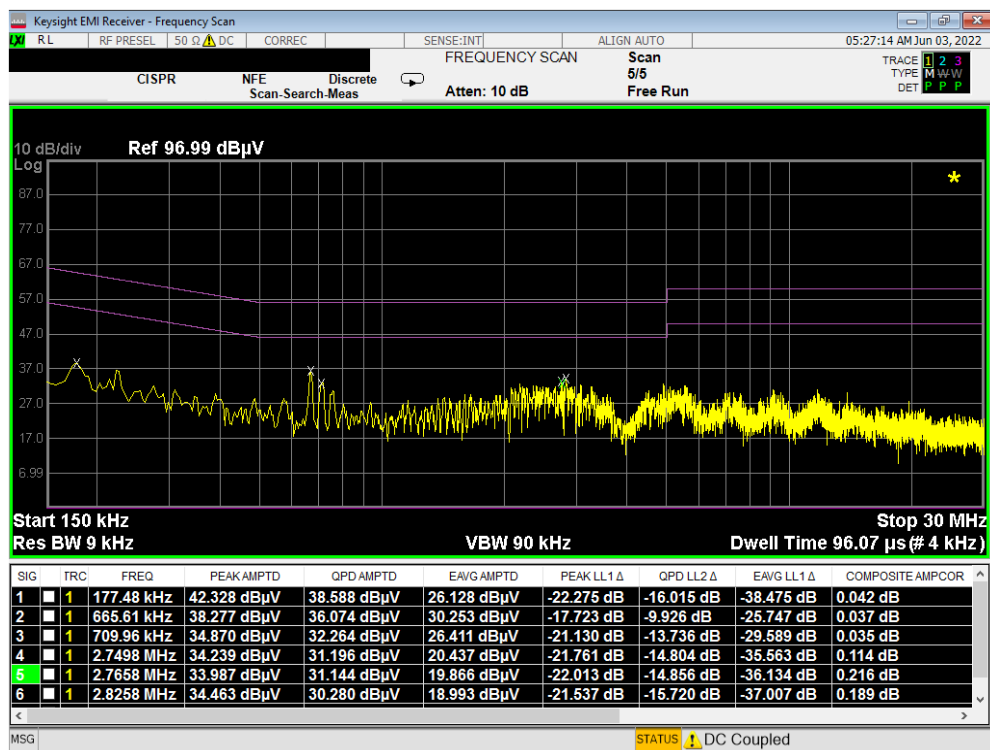
Plot 7-506. Line Conducted Plot with 802.11a UNII Band 2C (L1) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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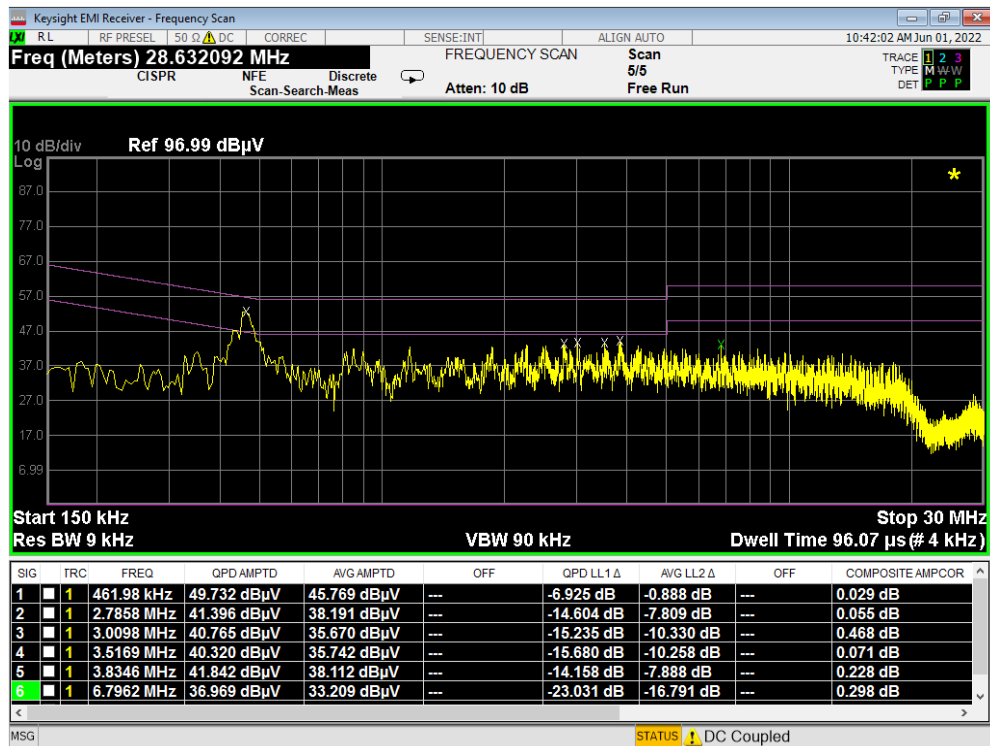


Plot 7-507. Line Conducted Plot with 802.11a UNII Band 2C (N) – Open

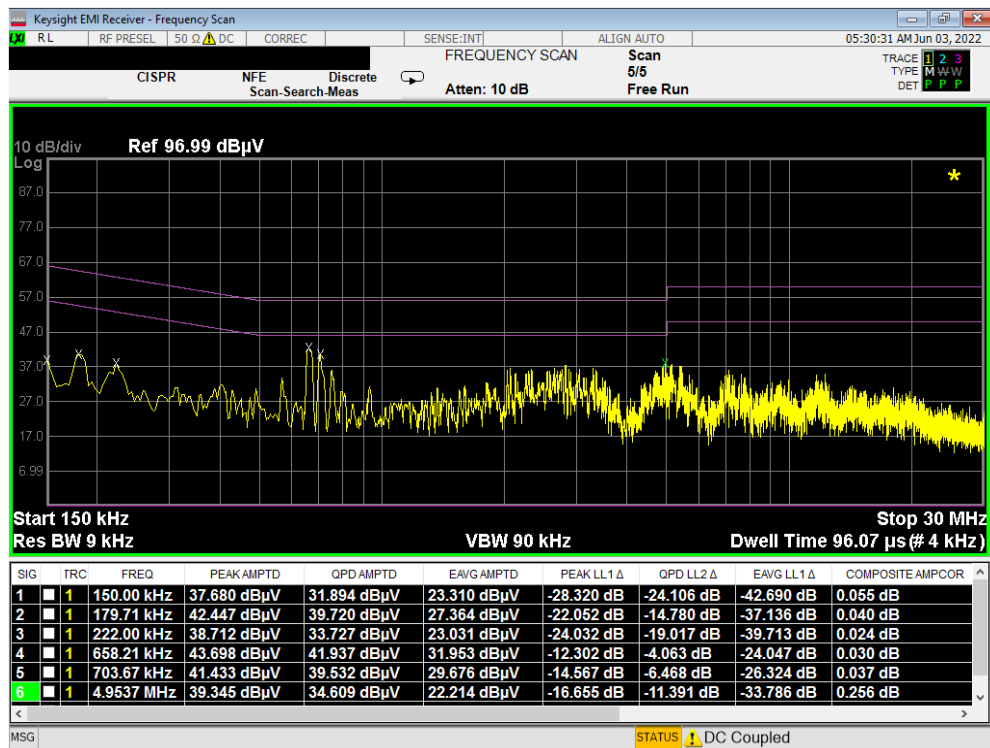


Plot 7-508. Line Conducted Plot with 802.11a UNII Band 2C (N) – Closed

FCC ID: A3LSMF721JPN	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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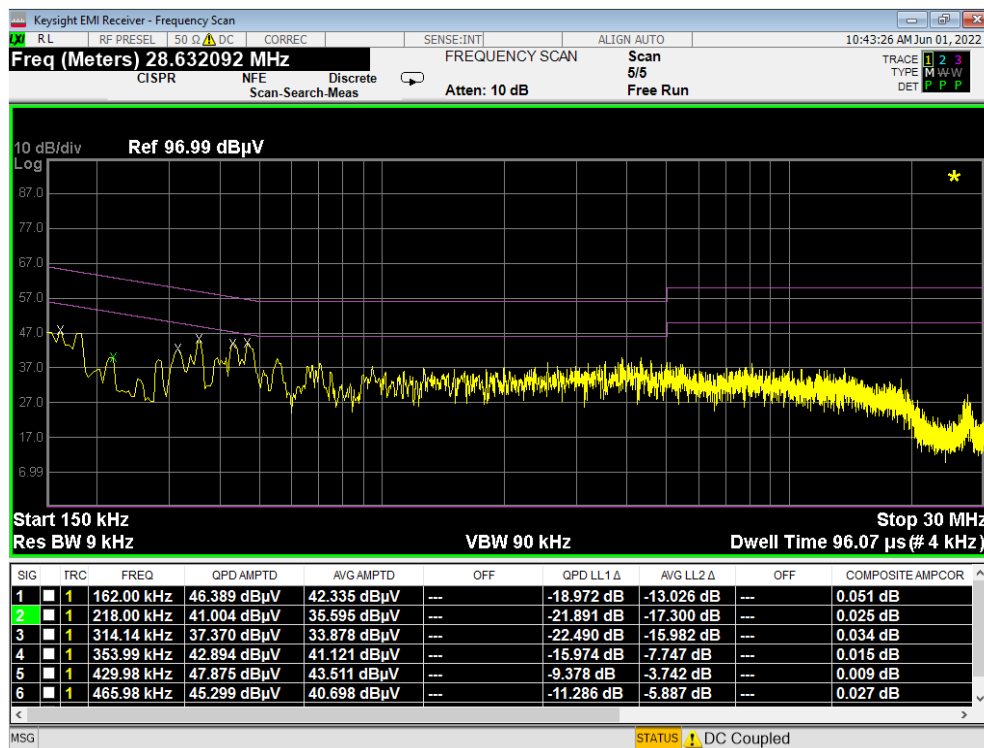


Plot 7-509. Line Conducted Plot with 802.11a UNII Band 3 (L1) – Open

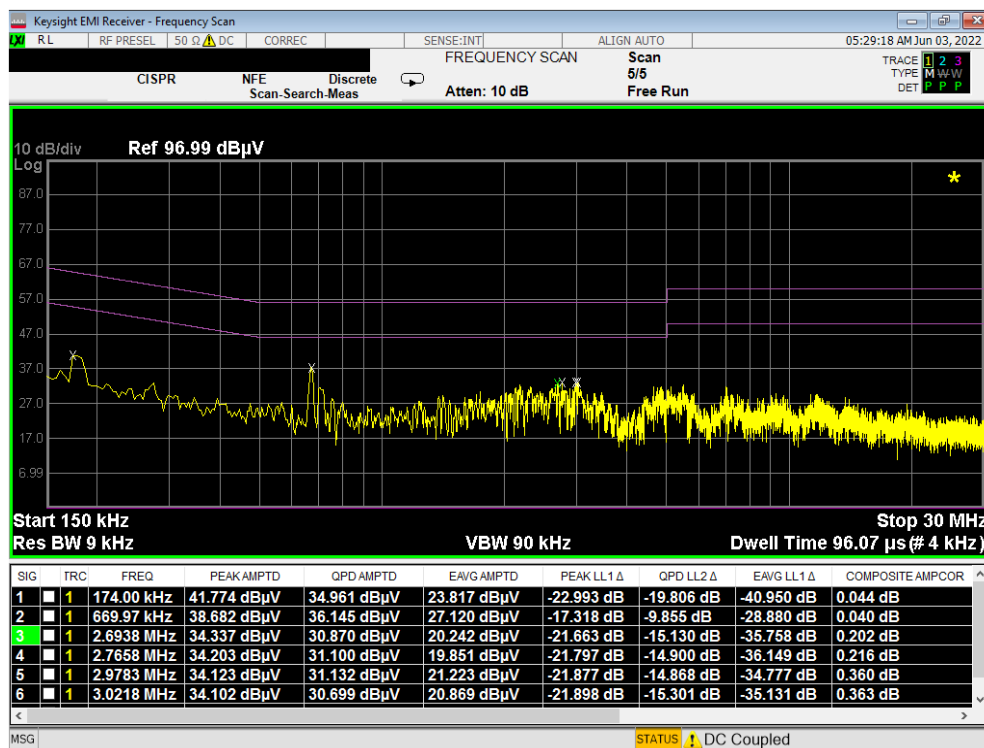


Plot 7-510. Line Conducted Plot with 802.11a UNII Band 3 (L1) – Closed

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Plot 7-511. Line Conducted Plot with 802.11a UNII Band 3 (N) – Open



Plot 7-512. Line Conducted Plot with 802.11a UNII Band 3 (N) – Closed

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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset** **FCC ID: A3LSMF721JPN** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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