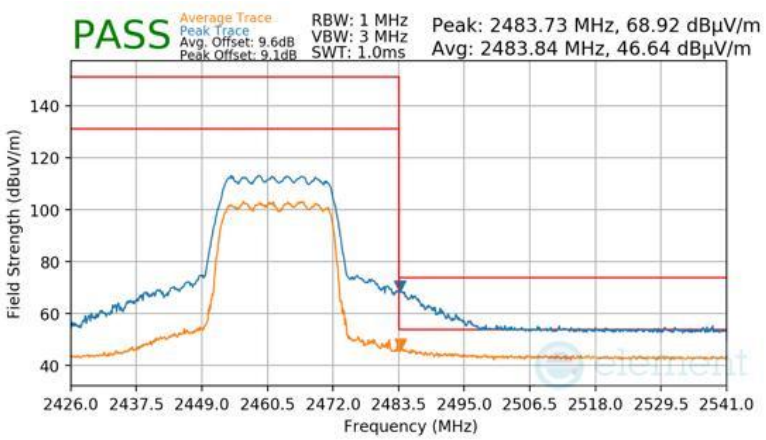
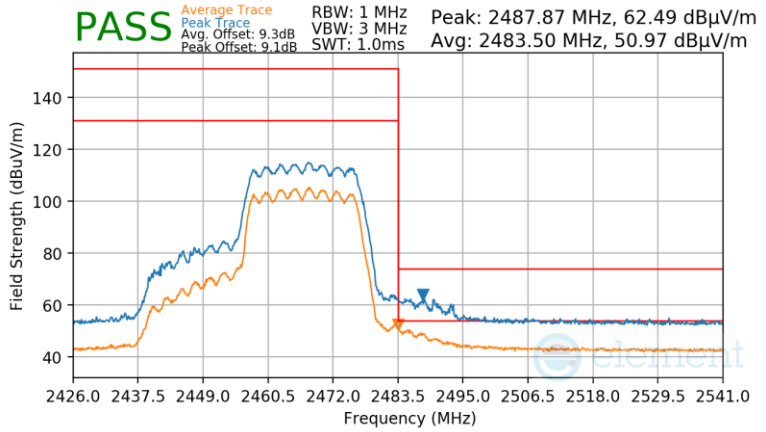
Mode	**802.11ax-SU**
Data Rate	**MCS9**
Distance of Measurement	**3 Meters**
Operating Frequency	**2462MHz**
Channel	**11**



Plot 7-951 Radiated Restricted Upper Band Edge Measurement CDD Diversity

Mode	**802.11ax-SU**
Data Rate	**MCS2**
Distance of Measurement	**3 Meters**
Operating Frequency	**2467MHz**
Channel	**12**



Plot 7-952 Radiated Restricted Upper Band Edge Measurement CDD Diversity

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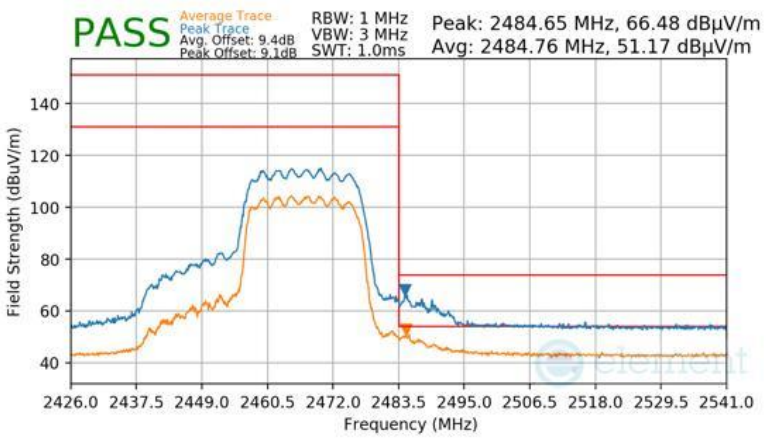
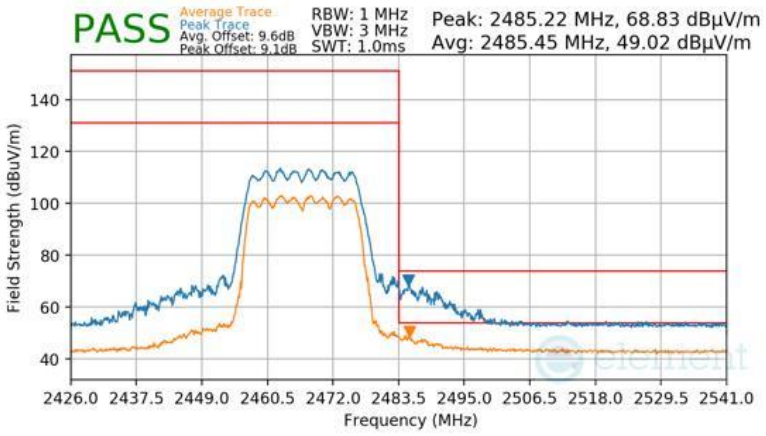
Mode	**802.11ax-SU**
Data Rate	**MCS4**
Distance of Measurement	**3 Meters**
Operating Frequency	**2467MHz**
Channel	**12**



Plot 7-953 Radiated Restricted Upper Band Edge Measurement CDD Diversity

Mode	**802.11ax-SU**
Data Rate	**MCS9**
Distance of Measurement	**3 Meters**
Operating Frequency	**2467MHz**
Channel	**12**



Plot 7-954 Radiated Restricted Upper Band Edge Measurement CDD Diversity

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7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-111 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-111. Radiated Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Quasi-Peak Field Strength Measurements

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

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

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Test Setup

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

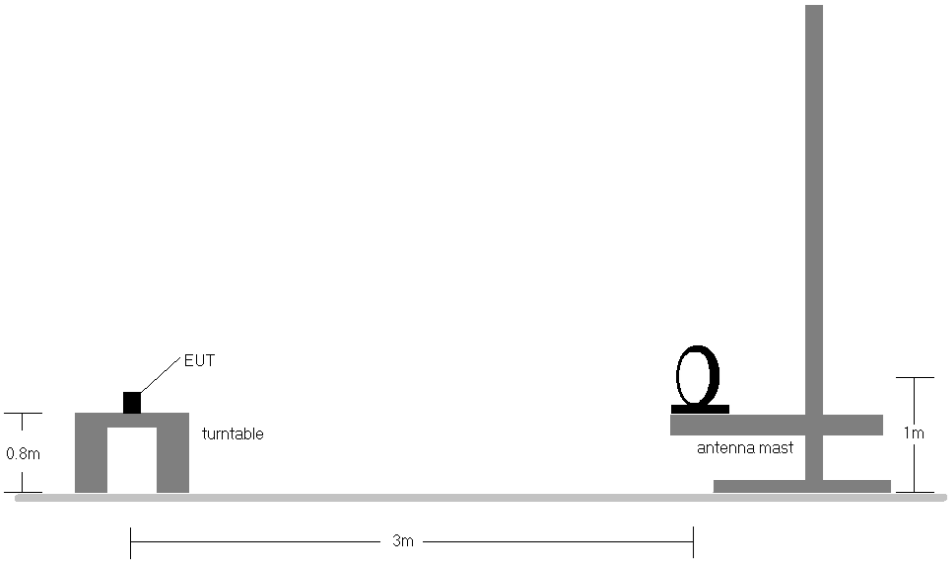

Figure 7-7. Radiated Test Setup < 30Mhz

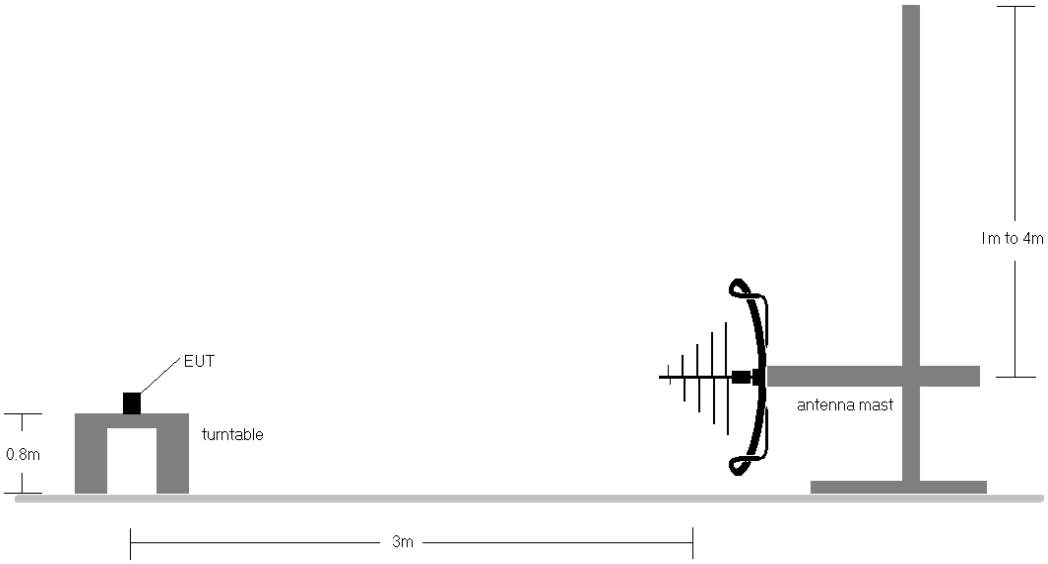

Figure 7-8. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-111.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector for emissions within 6dB of the limit.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. Both configurations below were investigated, and the worst case has been reported.
    a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
    b. EUT powered by host PC via USB-C cable with wire charger
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. All antenna configurations and modes were tested and only the worst case is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level $_{[dB\mu V/m]}$ = Analyzer Level $_{[dBm]}$ + 107 + AFCL $_{[dB/m]}$
- AFCL $_{[dB/m]}$ = Antenna Factor $_{[dB/m]}$ + Cable Loss $_{[dB]}$ – Preamplifier Gain $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB\mu V/m]}$ – Limit $_{[dB\mu V/m]}$

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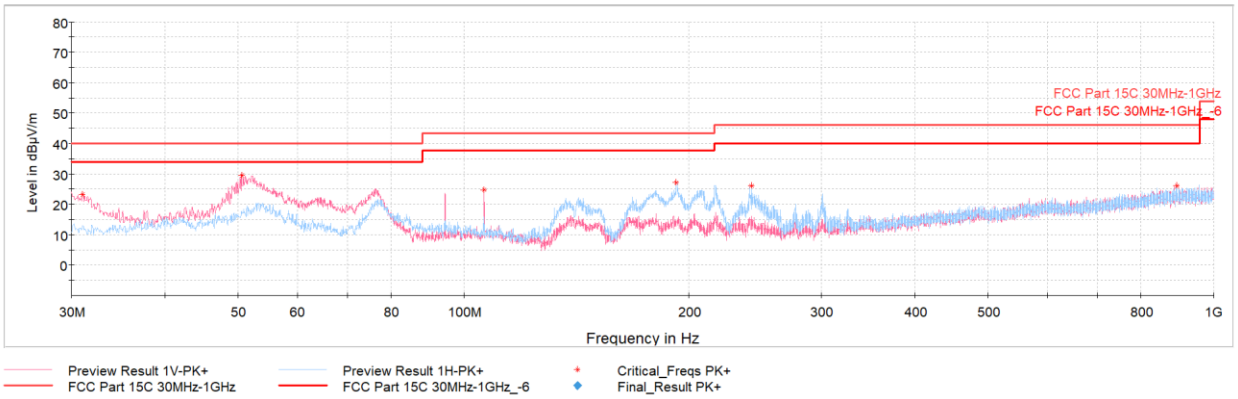
CDD Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-955. Radiated Spurious Emissions below 1GHz CDD Primary 11n Ch.6, with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
31.07	Max-Peak	V	100	15	-68.27	-15.60	23.13	40.00	-16.87
50.61	Max-Peak	V	100	257	-64.89	-12.67	29.44	40.00	-10.56
106.44	Max-Peak	V	100	220	-65.84	-16.52	24.64	43.52	-18.88
192.28	Max-Peak	H	100	205	-63.04	-16.86	27.10	43.52	-16.42
241.99	Max-Peak	H	100	264	-65.43	-15.39	26.18	46.02	-19.84
893.45	Max-Peak	H	200	185	-77.49	-3.40	26.11	46.02	-19.91

Table 7-112. Radiated Spurious Emissions below 1GHz CDD Primary 11n Ch.6, with AC/DC Adapter

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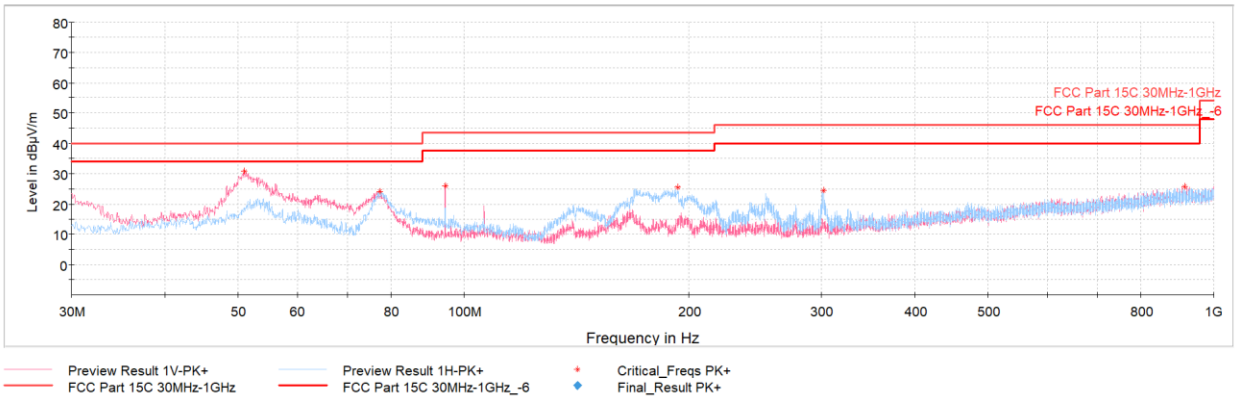

Plot 7-956. Radiated Spurious Emissions below 1GHz CDD Primary 11ax - SU Ch.6, with AC/DC Adapter

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
51.00	Max-Peak	V	100	79	-63.60	-12.70	30.70	40.00	-9.30
77.34	Max-Peak	H	200	224	-61.72	-21.05	24.23	40.00	-15.77
94.51	Max-Peak	V	100	193	-64.12	-16.91	25.97	43.52	-17.55
192.91	Max-Peak	H	100	33	-64.86	-16.78	25.36	43.52	-18.16
301.60	Max-Peak	H	100	90	-68.32	-14.14	24.54	46.02	-21.48
915.56	Max-Peak	V	300	356	-78.15	-3.00	25.85	46.02	-20.17

Table 7-113. Radiated Spurious Emissions below 1GHz CDD Primary 11ax - SU Ch.6, with AC/DC Adapter

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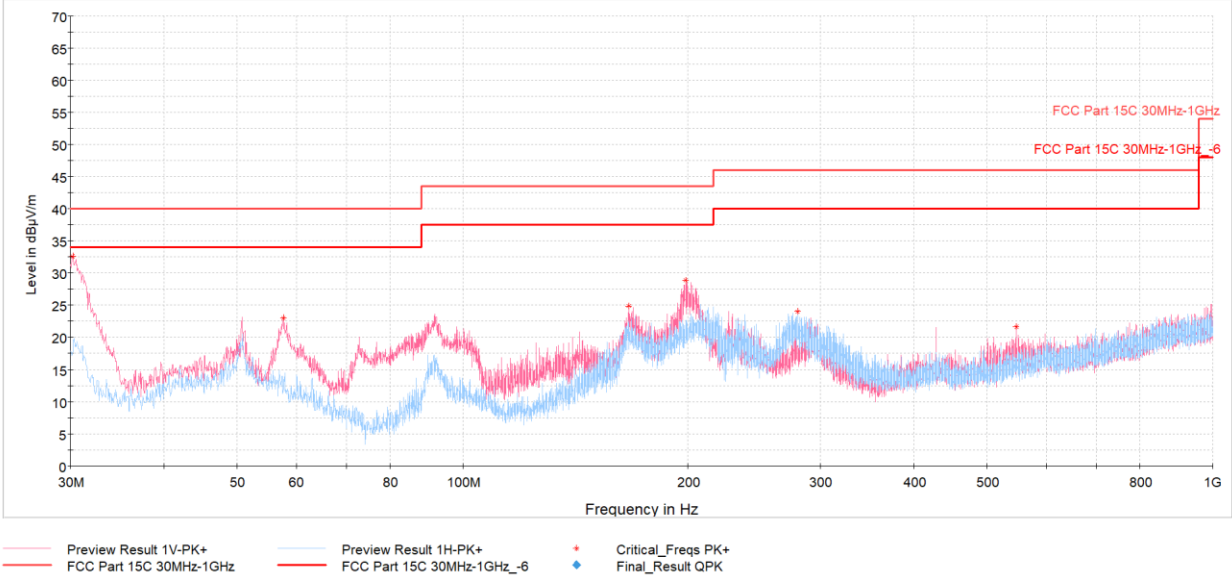
CDD Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-957. Radiated Spurious Emissions below 1GHz CDD Diversity 11n Ch.6, with Laptop

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
30.19	Max-Peak	V	100	0	-58.43	-15.91	32.66	40.00	-7.34
57.65	Max-Peak	V	100	69	-69.22	-14.76	23.02	40.00	-16.98
166.33	Max-Peak	V	100	108	-62.76	-19.36	24.88	43.52	-18.64
198.20	Max-Peak	V	100	69	-61.47	-16.64	28.89	43.52	-14.63
279.63	Max-Peak	H	100	233	-67.93	-15.08	23.99	46.02	-22.03
547.20	Max-Peak	V	100	95	-76.34	-9.05	21.61	46.02	-24.41

Table 7-114. Radiated Spurious Emissions below 1GHz CDD Diversity 11n Ch.6, with Laptop

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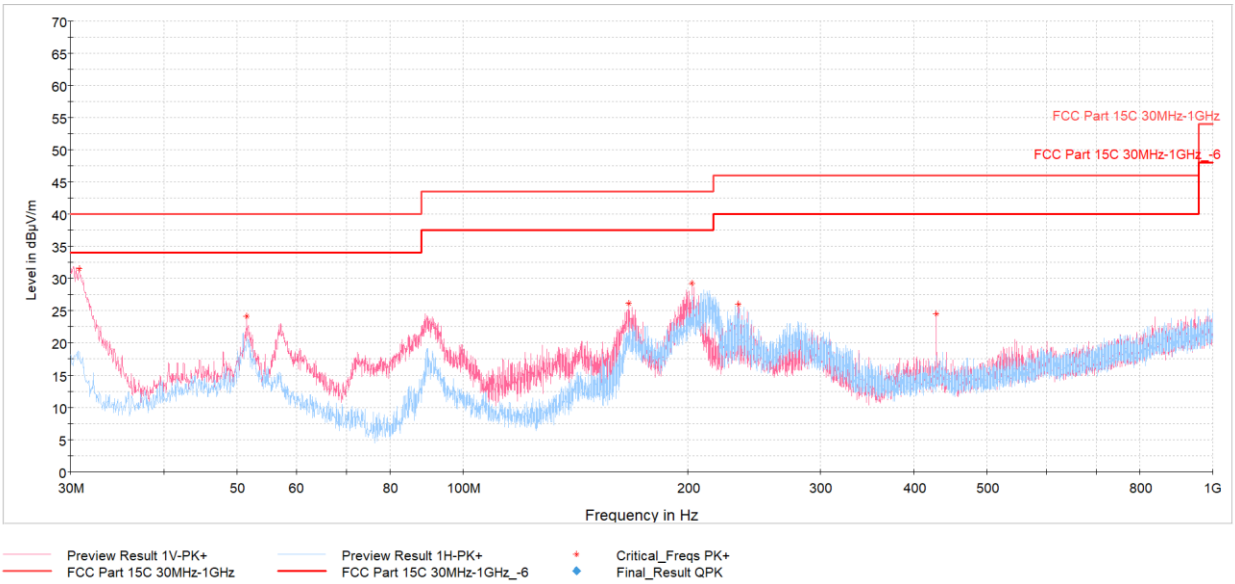

Plot 7-958. Radiated Spurious Emissions below 1GHz CDD Diversity 11ax - SU Ch.6, with Laptop

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
30.82	Max-Peak	V	100	233	-59.45	-16.06	31.49	40.00	-8.51
51.53	Max-Peak	V	100	145	-69.80	-13.12	24.08	40.00	-15.92
166.58	Max-Peak	V	100	107	-61.47	-19.35	26.18	43.52	-17.34
202.32	Max-Peak	V	100	133	-60.20	-17.52	29.28	43.52	-14.24
233.51	Max-Peak	V	100	176	-65.00	-15.99	26.01	46.02	-20.01
427.85	Max-Peak	V	100	214	-71.48	-11.08	24.44	46.02	-21.58

Table 7-115. Radiated Spurious Emissions below 1GHz CDD Diversity 11ax - SU Ch.6, with Laptop

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7.9 AC Line-Conducted Emissions Measurement

§15.207; 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 AC Line 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 7-116. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Subclause 6.2

Test Settings

Quasi-Peak 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 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.

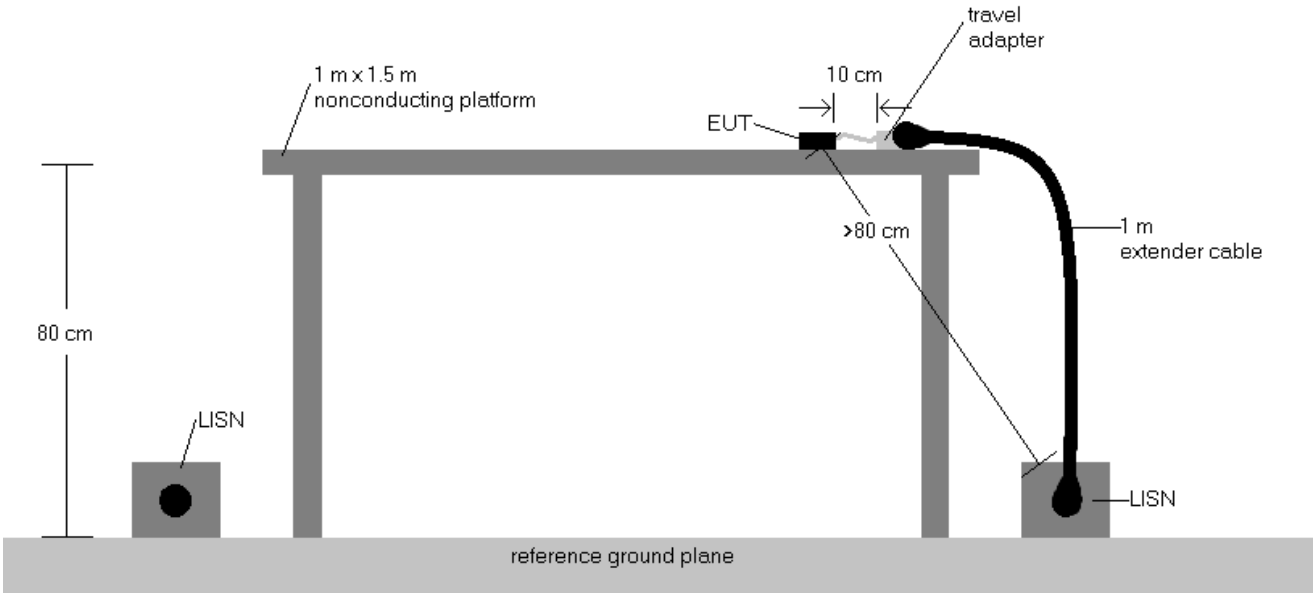

Figure 7-9. Test Instrument & Measurement Setup

Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
   a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
   b. EUT powered by host PC via USB-C cable with wire charger
3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AV Level (dBμV) - QP/AV Limit (dBμV)
7. Traces shown in plot are made using quasi peak and average detectors.
8. Deviations to the Specifications: None.
9. The unit was tested with all possible modes and only the highest emission is reported.

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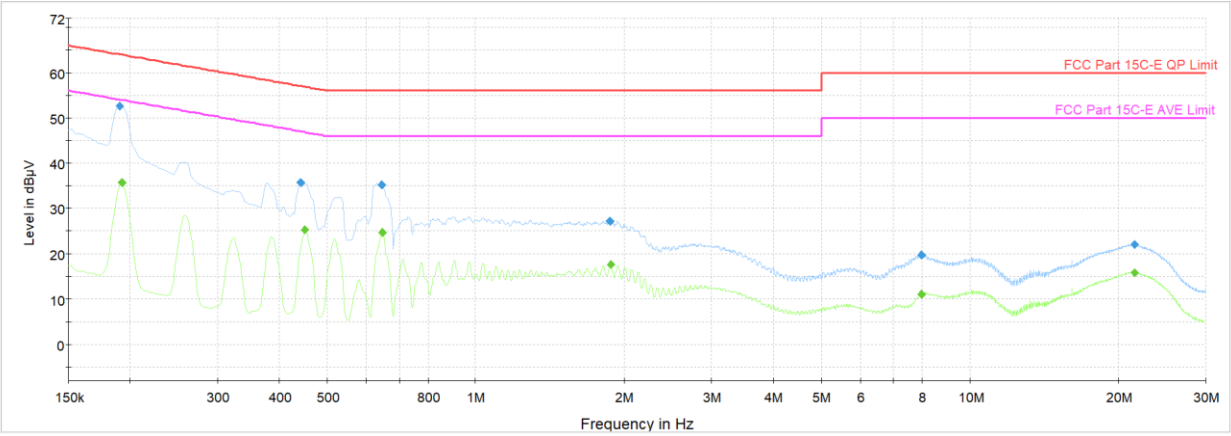

Plot 7-959. AC Line Conducted Plot with CDD Primary 11n Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.191	FINAL	52.6	---	64.02	-11.40	L1	GND
0.193	FINAL	---	35.67	53.92	-18.25	L1	GND
0.443	FINAL	35.7	---	57.02	-21.30	L1	GND
0.452	FINAL	---	25.18	46.85	-21.67	L1	GND
0.645	FINAL	35.2	---	56.00	-20.80	L1	GND
0.647	FINAL	---	24.71	46.00	-21.29	L1	GND
1.871	FINAL	27.2	---	56.00	-28.82	L1	GND
1.874	FINAL	---	17.55	46.00	-28.45	L1	GND
7.985	FINAL	---	11.07	50.00	-38.93	L1	GND
7.987	FINAL	19.8	---	60.00	-40.18	L1	GND
21.521	FINAL	---	15.79	50.00	-34.21	L1	GND
21.521	FINAL	22.1	---	60.00	-37.95	L1	GND

Table 7-117. AC Line Conducted Data with CDD Primary 11n Ch.6 (L1, with Laptop)

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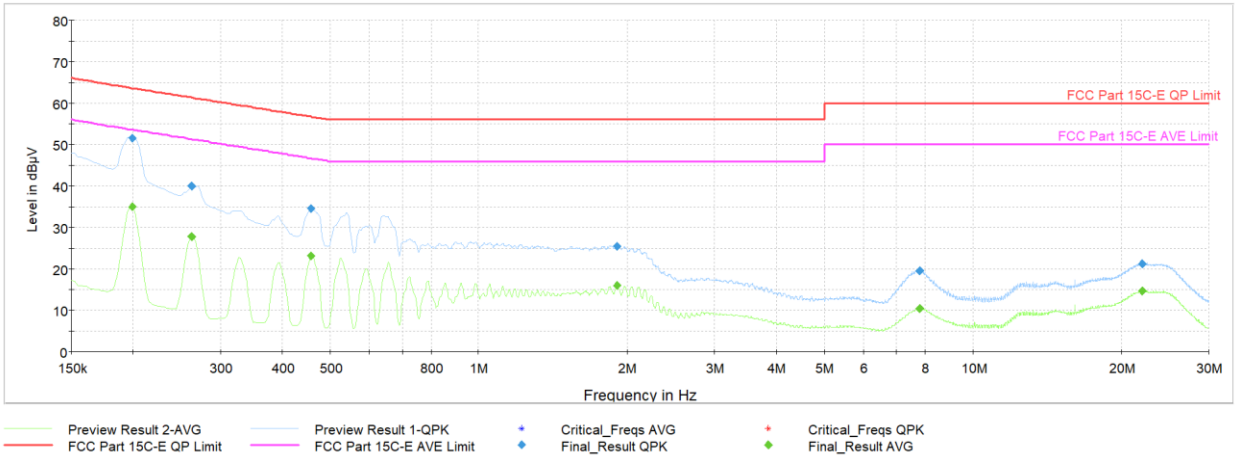

Plot 7-960. AC Line Conducted Plot with CDD Primary 11n Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.200	FINAL	---	35.04	53.63	-18.59	N	GND
0.200	FINAL	51.6	---	63.63	-12.04	N	GND
0.263	FINAL	---	27.78	51.35	-23.57	N	GND
0.263	FINAL	39.9	---	61.35	-21.42	N	GND
0.458	FINAL	---	23.24	46.72	-23.48	N	GND
0.458	FINAL	34.6	---	56.72	-22.14	N	GND
1.907	FINAL	25.5	---	56.00	-30.46	N	GND
1.907	FINAL	---	16.00	46.00	-30.00	N	GND
7.807	FINAL	19.5	---	60.00	-40.53	N	GND
7.807	FINAL	---	10.49	50.00	-39.51	N	GND
22.025	FINAL	---	14.61	50.00	-35.39	N	GND
22.027	FINAL	21.2	---	60.00	-38.78	N	GND

Table 7-118. AC Line Conducted Data with CDD Primary 11n Ch.6 (N, with Laptop)

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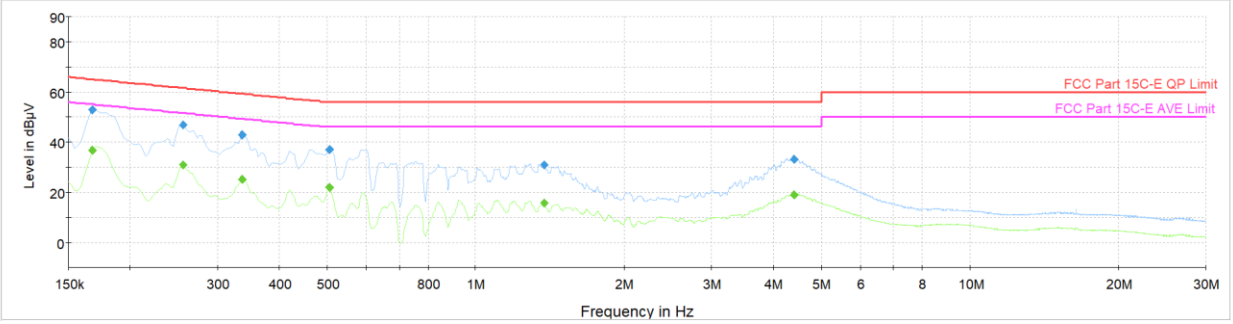

Plot 7-961. AC Line Conducted Plot with CDD Primary 11ax - SU Ch.6 (L1, with AC/DC Adapter)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	---	36.86	55.06	-18.20	L1	GND
0.168	FINAL	53.0	---	65.06	-12.04	L1	GND
0.256	FINAL	---	30.85	51.57	-20.72	L1	GND
0.256	FINAL	46.7	---	61.57	-14.88	L1	GND
0.337	FINAL	---	25.13	49.28	-24.16	L1	GND
0.337	FINAL	42.9	---	59.28	-16.43	L1	GND
0.506	FINAL	37.0	---	56.00	-19.03	L1	GND
0.506	FINAL	---	21.98	46.00	-24.02	L1	GND
1.379	FINAL	31.1	---	56.00	-24.93	L1	GND
1.379	FINAL	---	15.68	46.00	-30.32	L1	GND
4.409	FINAL	---	19.06	46.00	-26.94	L1	GND
4.409	FINAL	33.3	---	56.00	-22.67	L1	GND

Table 7-119. AC Line Conducted Data with CDD Primary 11ax - SU Ch.6 (L1, with AC/DC Adapter)

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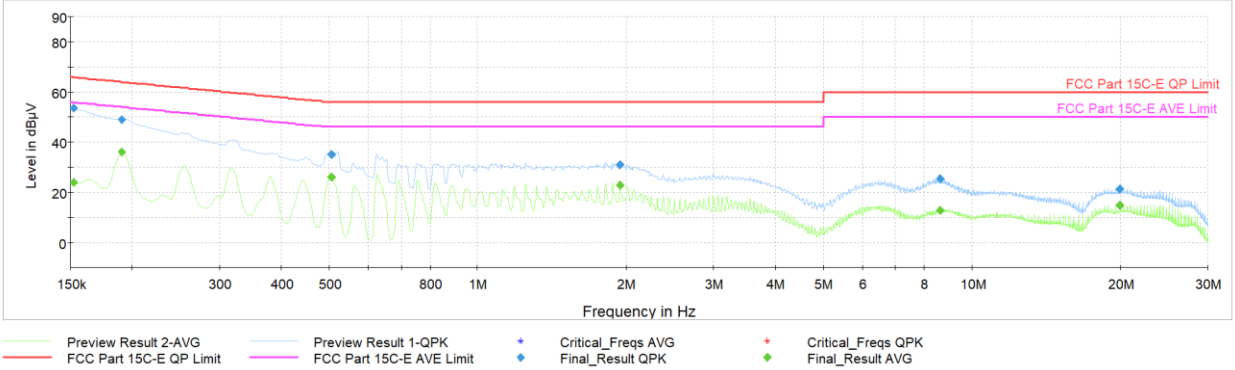

Plot 7-962. AC Line Conducted Plot with CDD Primary 11ax - SU Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.152	FINAL	---	23.97	55.88	-31.90	N	GND
0.152	FINAL	53.6	---	65.88	-12.30	N	GND
0.191	FINAL	---	36.21	54.02	-17.80	N	GND
0.191	FINAL	49.0	---	64.02	-15.03	N	GND
0.506	FINAL	---	26.11	46.00	-19.89	N	GND
0.506	FINAL	35.3	---	56.00	-20.69	N	GND
1.939	FINAL	31.0	---	56.00	-25.03	N	GND
1.939	FINAL	---	22.88	46.00	-23.12	N	GND
8.633	FINAL	25.4	---	60.00	-34.64	N	GND
8.633	FINAL	---	12.93	50.00	-37.07	N	GND
19.892	FINAL	---	14.94	50.00	-35.06	N	GND
19.892	FINAL	21.4	---	60.00	-38.57	N	GND

Table 7-120. AC Line Conducted Data with CDD Primary 11ax - SU Ch.6 (N, with Laptop)

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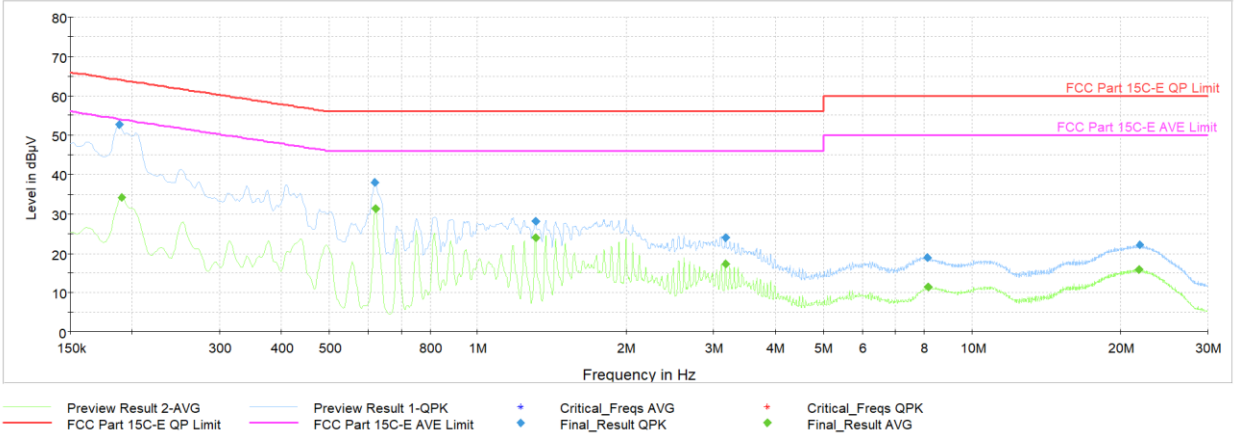

Plot 7-963. AC Line Conducted Plot with CDD Diversity 11n Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	52.7	---	64.11	-11.46	L1	GND
0.191	FINAL	---	34.10	54.02	-19.92	L1	GND
0.620	FINAL	37.9	---	56.00	-18.09	L1	GND
0.623	FINAL	---	31.30	46.00	-14.70	L1	GND
1.309	FINAL	---	24.01	46.00	-21.99	L1	GND
1.309	FINAL	28.2	---	56.00	-27.81	L1	GND
3.174	FINAL	23.9	---	56.00	-32.06	L1	GND
3.174	FINAL	---	17.30	46.00	-28.70	L1	GND
8.142	FINAL	18.9	---	60.00	-41.06	L1	GND
8.144	FINAL	---	11.41	50.00	-38.59	L1	GND
21.802	FINAL	---	15.88	50.00	-34.12	L1	GND
21.809	FINAL	22.0	---	60.00	-37.96	L1	GND

Table 7-121. AC Line Conducted Data with CDD Diversity 11n Ch.6 (L1, with Laptop)

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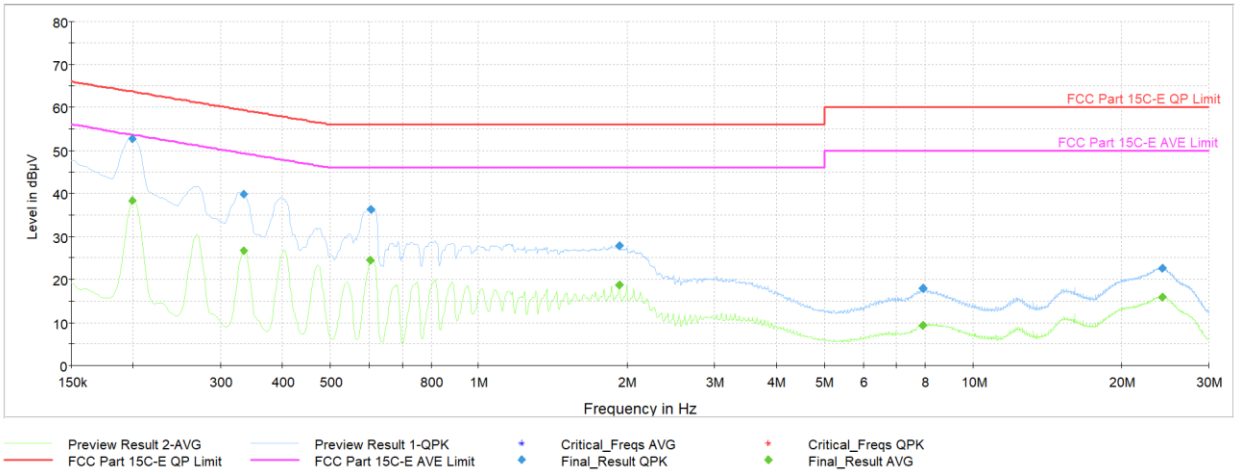

Plot 7-964. AC Line Conducted Plot with CDD Diversity 11n Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.200	FINAL	---	38.32	53.63	-15.31	N	GND
0.200	FINAL	52.8	---	63.63	-10.85	N	GND
0.335	FINAL	---	26.70	49.34	-22.64	N	GND
0.335	FINAL	39.9	---	59.34	-19.44	N	GND
0.602	FINAL	---	24.58	46.00	-21.42	N	GND
0.605	FINAL	36.3	---	56.00	-19.68	N	GND
1.925	FINAL	---	18.67	46.00	-27.33	N	GND
1.928	FINAL	27.9	---	56.00	-28.12	N	GND
7.910	FINAL	17.9	---	60.00	-42.08	N	GND
7.910	FINAL	---	9.37	50.00	-40.63	N	GND
24.126	FINAL	---	15.96	50.00	-34.04	N	GND
24.126	FINAL	22.5	---	60.00	-37.47	N	GND

Table 7-122. AC Line Conducted Data with CDD Diversity 11n Ch.6 (N, with Laptop)

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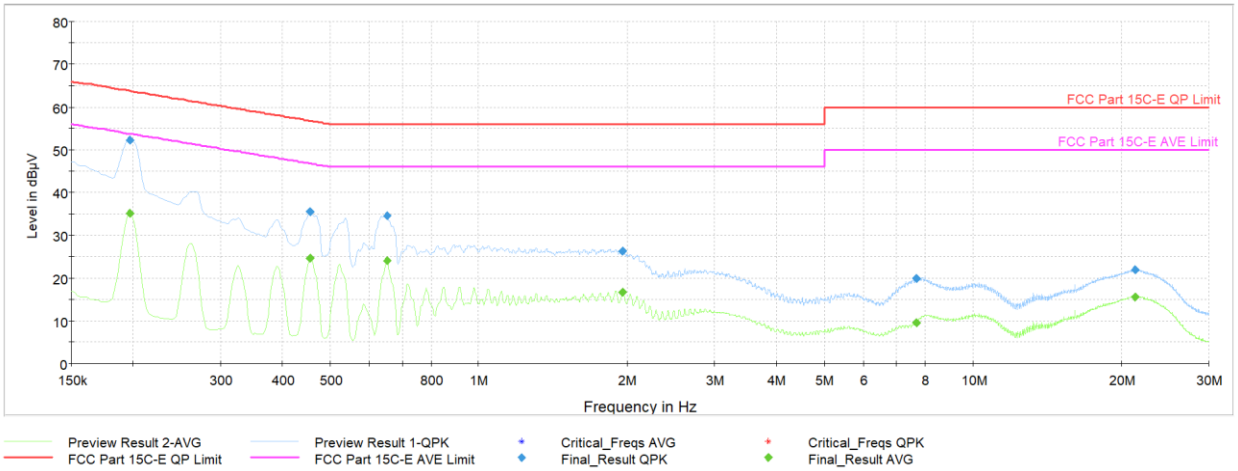

Plot 7-965. AC Line Conducted Plot with CDD Diversity 11ax - SU Ch.6 (L1, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.197	FINAL	---	35.07	53.73	-18.66	L1	GND
0.197	FINAL	52.1	---	63.73	-11.59	L1	GND
0.456	FINAL	---	24.69	46.77	-22.08	L1	GND
0.456	FINAL	35.4	---	56.77	-21.37	L1	GND
0.652	FINAL	---	24.01	46.00	-21.99	L1	GND
0.652	FINAL	34.6	---	56.00	-21.40	L1	GND
1.957	FINAL	26.4	---	56.00	-29.64	L1	GND
1.957	FINAL	---	16.71	46.00	-29.29	L1	GND
7.681	FINAL	19.9	---	60.00	-40.11	L1	GND
7.681	FINAL	---	9.60	50.00	-40.40	L1	GND
21.293	FINAL	21.9	---	60.00	-38.06	L1	GND
21.298	FINAL	---	15.65	50.00	-34.35	L1	GND

Table 7-123. AC Line Conducted Data with CDD Diversity 11ax - SU Ch.6 (L1, with Laptop)

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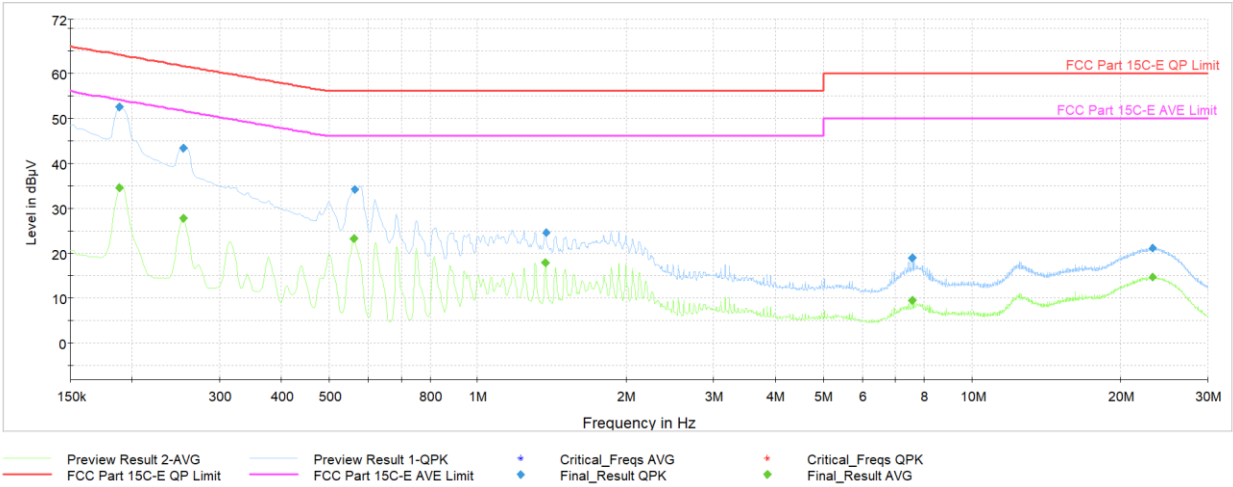

Plot 7-966. AC Line Conducted Plot with CDD Diversity 11ax - SU Ch.6 (N, with Laptop)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	---	34.66	54.11	-19.46	N	GND
0.188	FINAL	52.5	---	64.11	-11.57	N	GND
0.254	FINAL	---	27.86	51.64	-23.79	N	GND
0.254	FINAL	43.4	---	61.64	-18.26	N	GND
0.562	FINAL	---	23.28	46.00	-22.72	N	GND
0.564	FINAL	34.3	---	56.00	-21.72	N	GND
1.372	FINAL	---	18.00	46.00	-28.00	N	GND
1.374	FINAL	24.6	---	56.00	-31.44	N	GND
7.577	FINAL	---	9.53	50.00	-40.47	N	GND
7.580	FINAL	19.0	---	60.00	-41.00	N	GND
23.226	FINAL	---	14.74	50.00	-35.26	N	GND
23.228	FINAL	21.1	---	60.00	-38.91	N	GND

Table 7-124. AC Line Conducted Data with CDD Diversity 11ax - SU Ch.6 (N, with Laptop)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2925, IC: 579C-A2925** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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