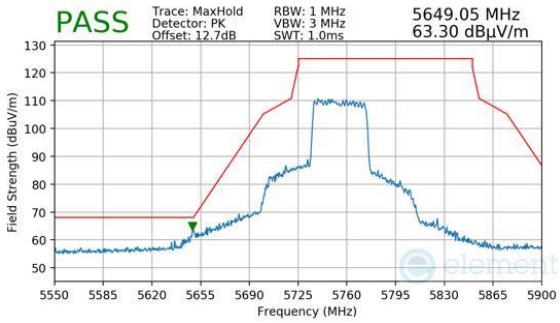
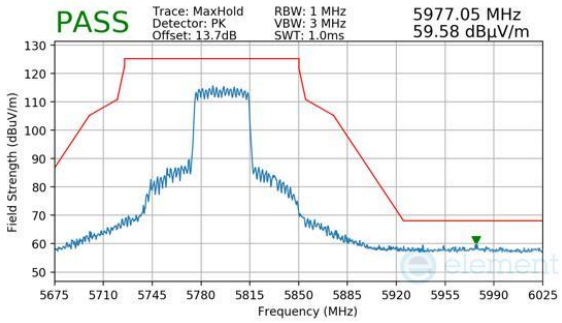
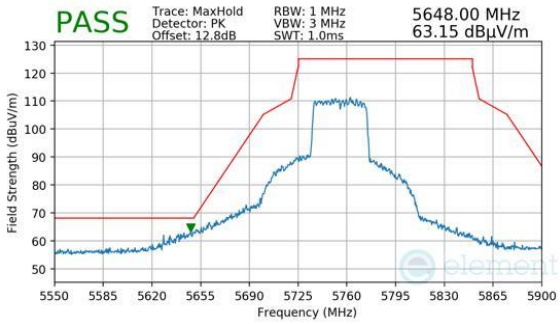


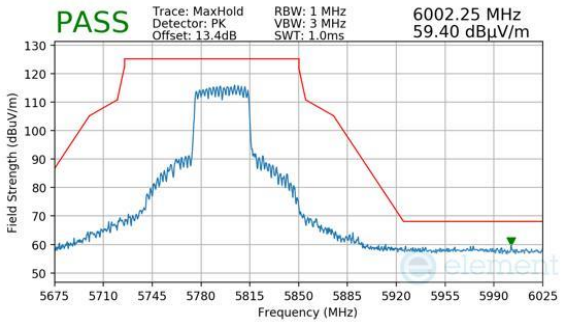
Plot 7-1950. CDD DIVERSITY (PEAK, CH.151, 802.11AX(SU), MCS2)



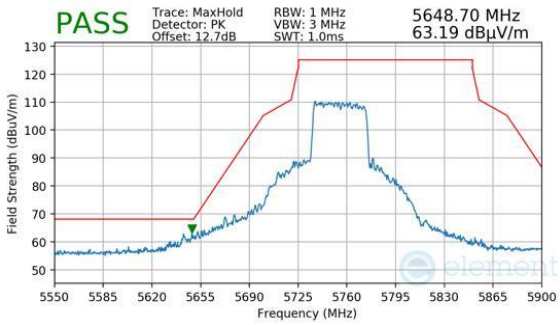
Plot 7-1953. CDD DIVERSITY (PEAK, CH.159, 802.11AX(SU), MCS2)



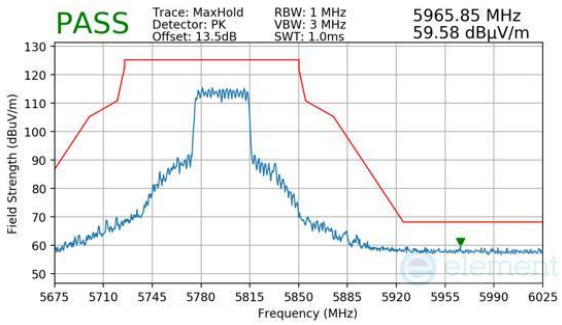
Plot 7-1951. CDD DIVERSITY (PEAK, CH.151, 802.11AX(SU), MCS4)



Plot 7-1954. CDD DIVERSITY (PEAK, CH.159, 802.11AX(SU), MCS4)



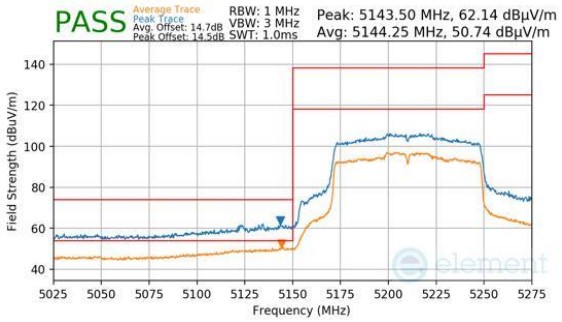
Plot 7-1952. CDD DIVERSITY (PEAK, CH.151, 802.11AX(SU), MCS11)



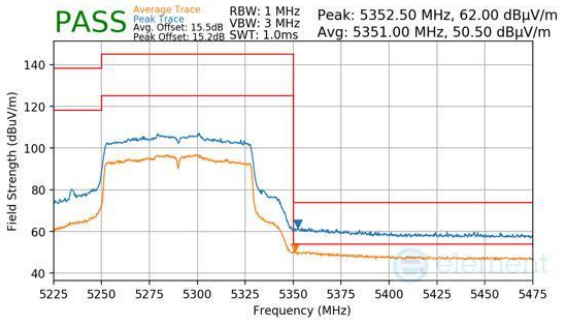
Plot 7-1955. CDD DIVERSITY (PEAK, CH.159, 802.11AX(SU), MCS11)

7.6.24 CDD Diversity Radiated Band Edge Measurements (80MHz BW)

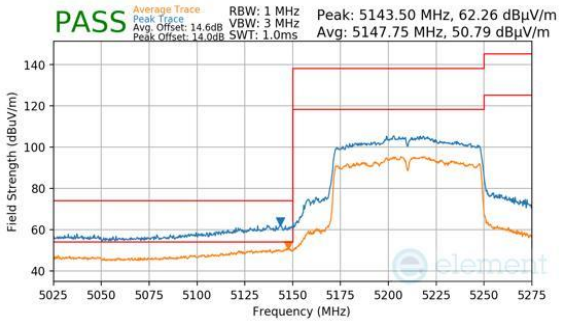
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



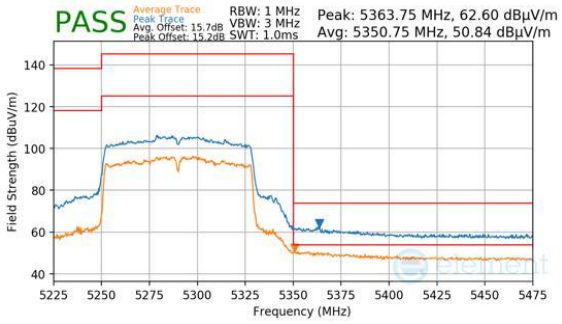
Plot 7-1956. CDD DIVERSITY (PEAK & AVERAGE, CH.42, 802.11AC, MCS2)



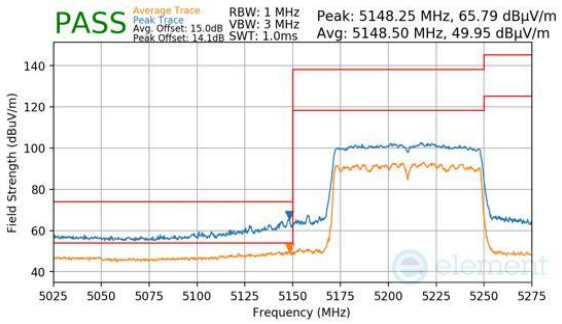
Plot 7-1959. CDD DIVERSITY (PEAK & AVERAGE, CH.58, 802.11AC, MCS2)



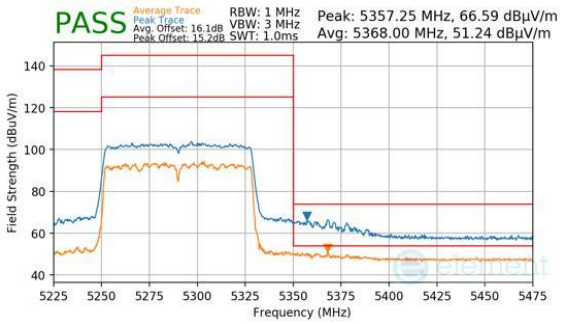
Plot 7-1957. CDD DIVERSITY (PEAK & AVERAGE, CH.42, 802.11AC, MCS4)



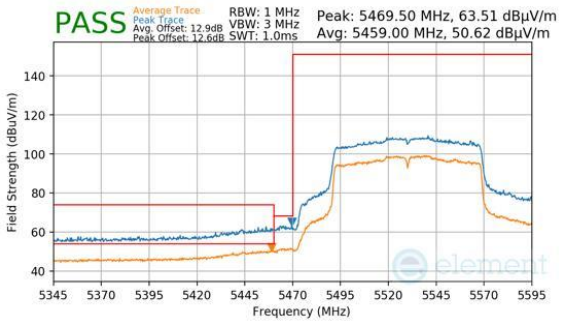
Plot 7-1960. CDD DIVERSITY (PEAK & AVERAGE, CH.58, 802.11AC, MCS4)



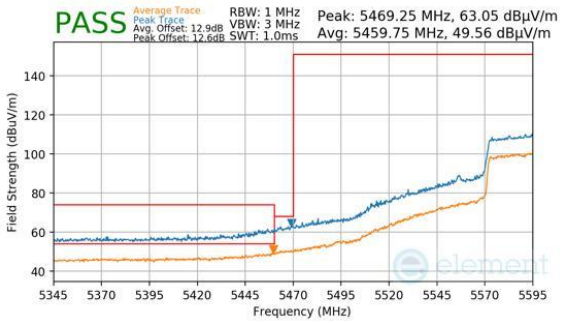
Plot 7-1958. CDD DIVERSITY (PEAK & AVERAGE, CH.42, 802.11AC, MCS9)



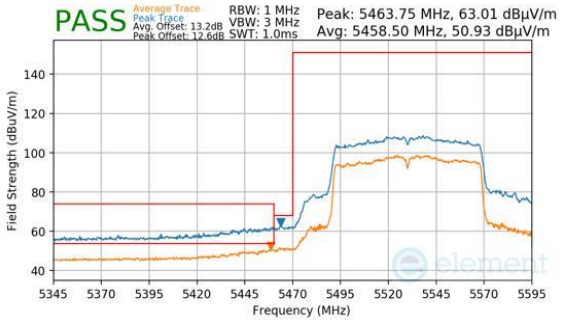
Plot 7-1961. CDD DIVERSITY (PEAK & AVERAGE, CH.58, 802.11AC, MCS9)



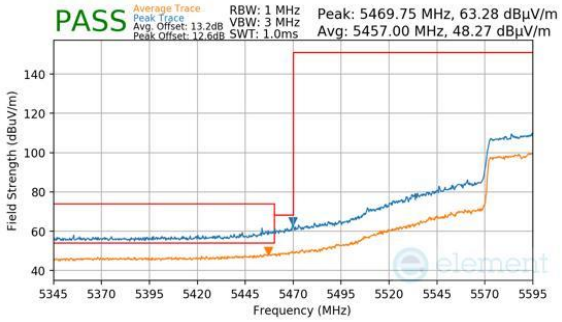
Plot 7-1962. CDD DIVERSITY (PEAK & AVERAGE, CH.106, 802.11AC, MCS2)



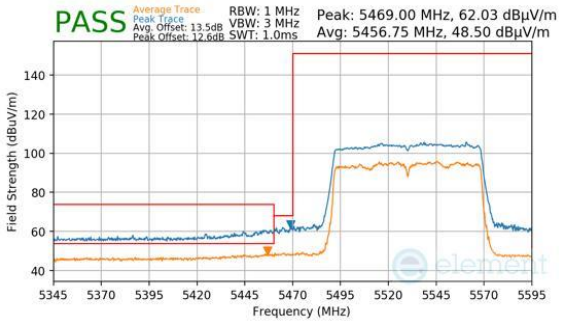
Plot 7-1965. CDD DIVERSITY (PEAK & AVERAGE, CH.122, 802.11AC, MCS2)



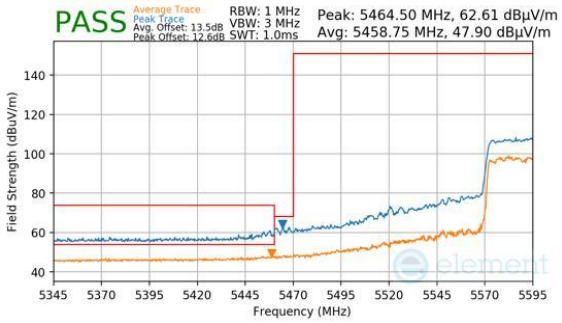
Plot 7-1963. CDD DIVERSITY (PEAK & AVERAGE, CH.106, 802.11AC, MCS4)



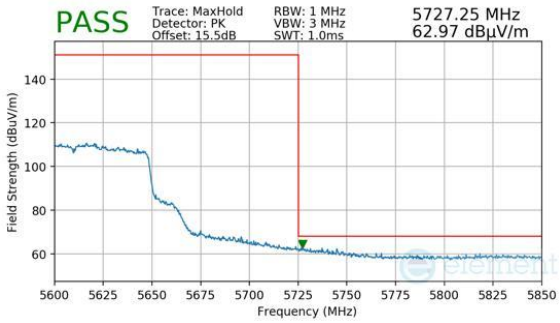
Plot 7-1966. CDD DIVERSITY (PEAK & AVERAGE, CH.122, 802.11AC, MCS4)



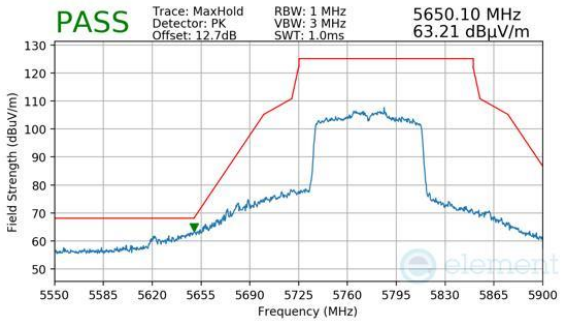
Plot 7-1964. CDD DIVERSITY (PEAK & AVERAGE, CH.106, 802.11AC, MCS9)



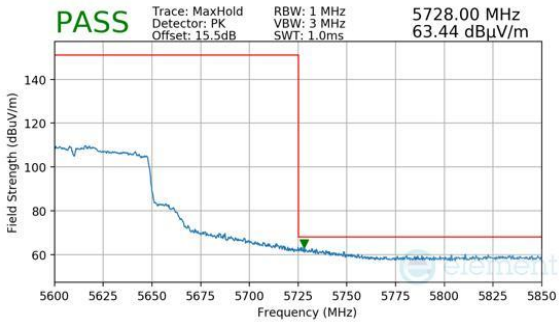
Plot 7-1967. CDD DIVERSITY (PEAK & AVERAGE, CH.122, 802.11AC, MCS9)



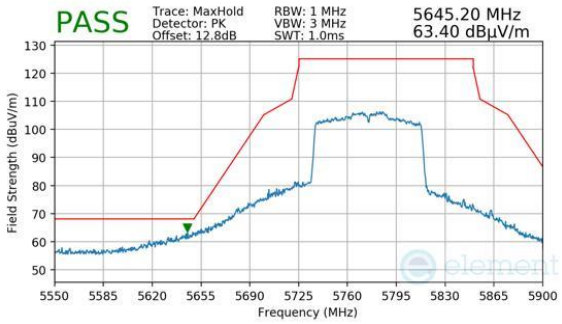
Plot 7-1968. CDD DIVERSITY (PEAK, CH.122, 802.11AC, MCS2)



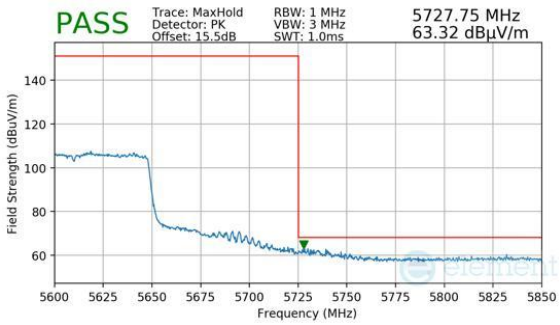
Plot 7-1971. CDD DIVERSITY (PEAK, CH.155, 802.11AC, MCS2)



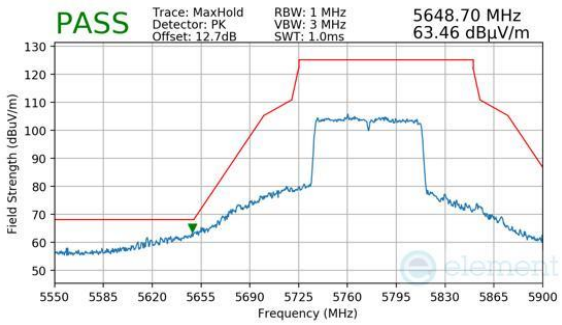
Plot 7-1969. CDD DIVERSITY (PEAK, CH.122, 802.11AC, MCS4)



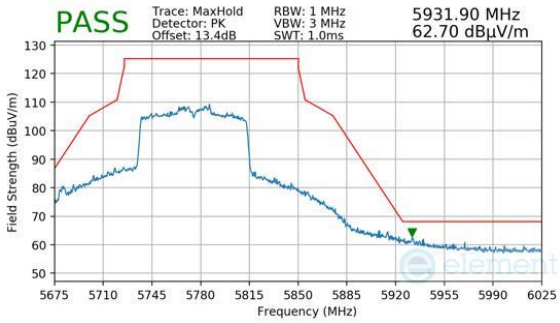
Plot 7-1972. CDD DIVERSITY (PEAK, CH.155, 802.11AC, MCS4)



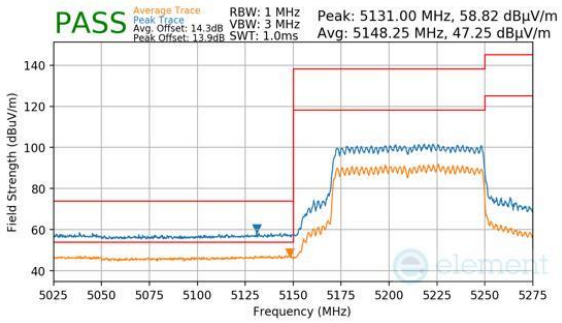
Plot 7-1970. CDD DIVERSITY (PEAK, CH.122, 802.11AC, MCS9)



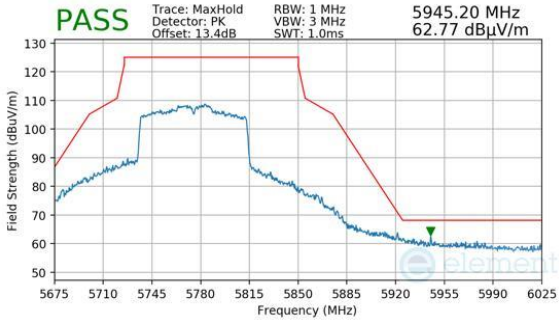
Plot 7-1973. CDD DIVERSITY (PEAK, CH.155, 802.11AC, MCS9)



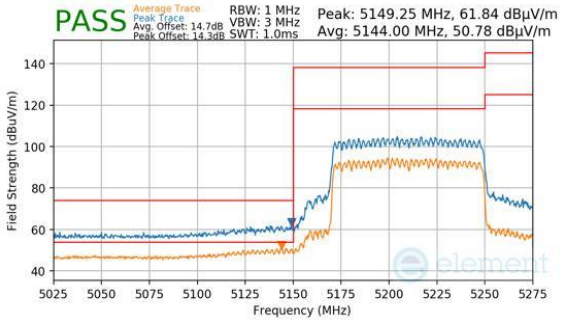
Plot 7-1974. CDD DIVERSITY (PEAK, CH.155, 802.11AC, MCS2)



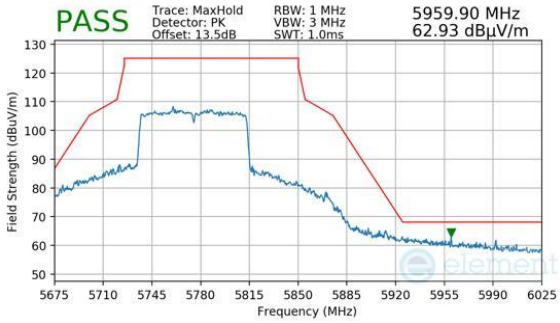
Plot 7-1977. CDD DIVERSITY (PEAK & AVERAGE, CH.42, 802.11AX(SU), MCS2)



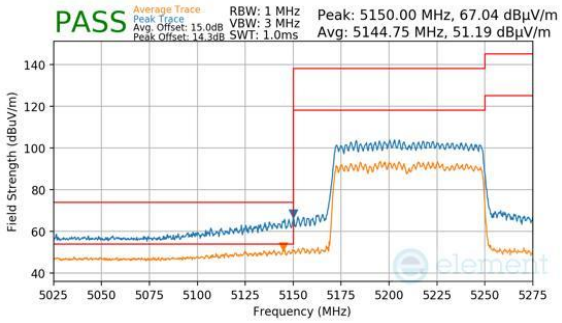
Plot 7-1975. CDD DIVERSITY (PEAK, CH.155, 802.11AC, MCS4)



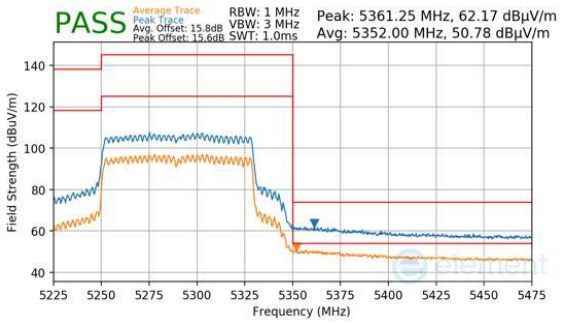
Plot 7-1978. CDD DIVERSITY (PEAK & AVERAGE, CH.42, 802.11AX(SU), MCS4)



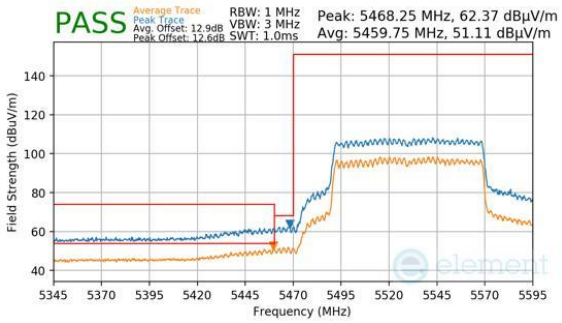
Plot 7-1976. CDD DIVERSITY (PEAK, CH.155, 802.11AC, MCS9)



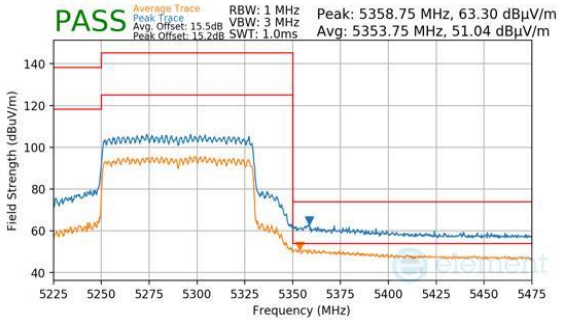
Plot 7-1979. CDD DIVERSITY (PEAK & AVERAGE, CH.42, 802.11AX(SU), MCS11)



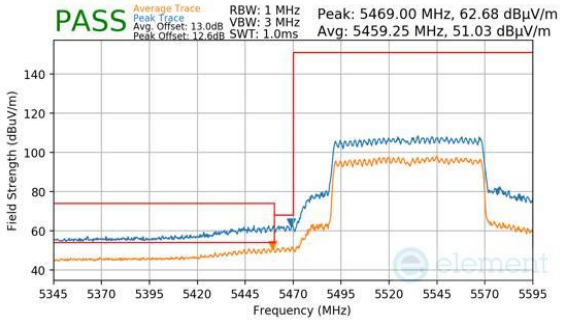
Plot 7-1980. CDD DIVERSITY (PEAK & AVERAGE, CH.58, 802.11AX(SU), MCS2)



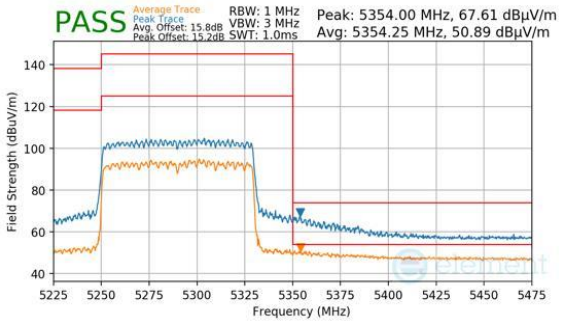
Plot 7-1983. CDD DIVERSITY (PEAK & AVERAGE, CH.106, 802.11AX(SU), MCS2)



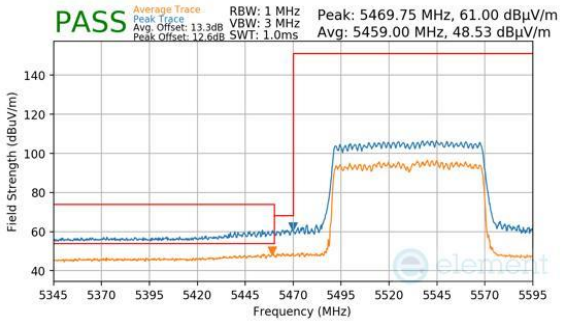
Plot 7-1981. CDD DIVERSITY (PEAK & AVERAGE, CH.58, 802.11AX(SU), MCS4)



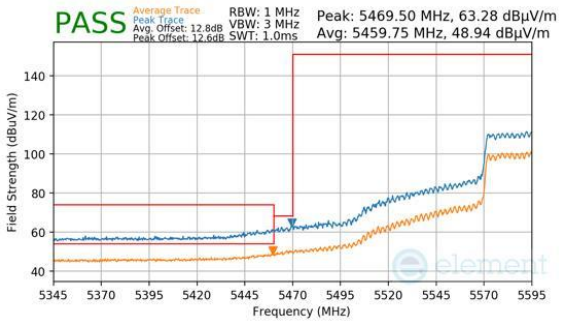
Plot 7-1984. CDD DIVERSITY (PEAK & AVERAGE, CH.106, 802.11AX(SU), MCS4)



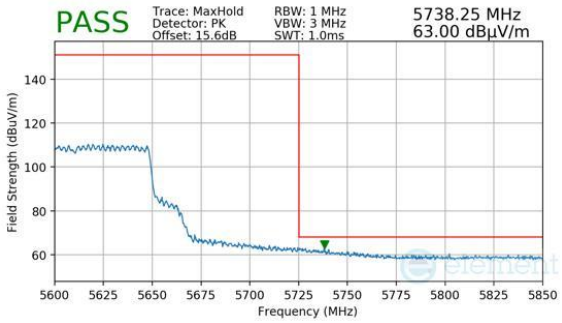
Plot 7-1982. CDD DIVERSITY (PEAK & AVERAGE, CH.58, 802.11AX(SU), MCS11)



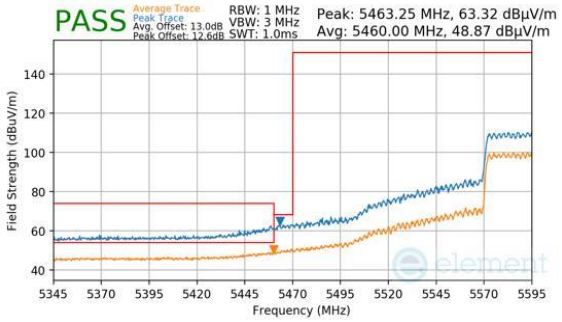
Plot 7-1985. CDD DIVERSITY (PEAK & AVERAGE, CH.106, 802.11AX(SU), MCS11)



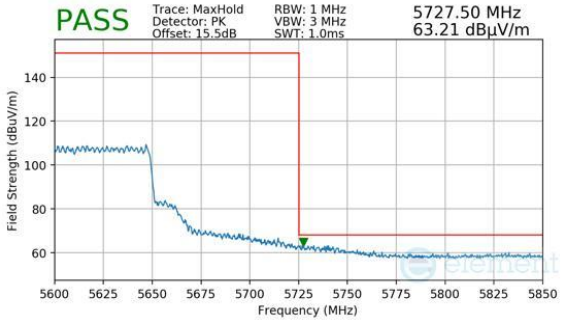
Plot 7-1986. CDD DIVERSITY (PEAK & AVERAGE, CH.122, 802.11AX(SU), MCS2)



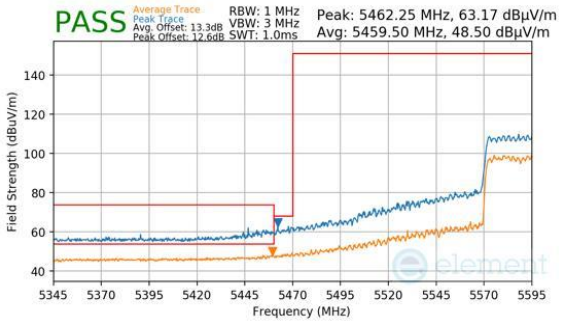
Plot 7-1989. CDD DIVERSITY (PEAK, CH.122, 802.11AX(SU), MCS2)



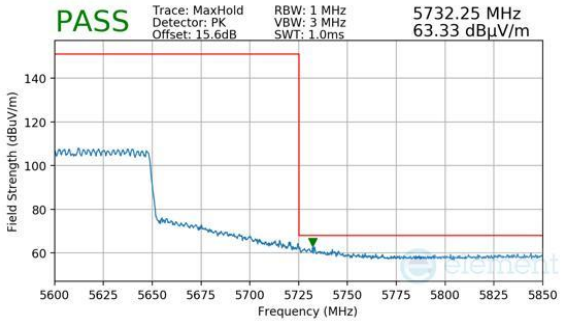
Plot 7-1987. CDD DIVERSITY (PEAK & AVERAGE, CH.122, 802.11AX(SU), MCS4)



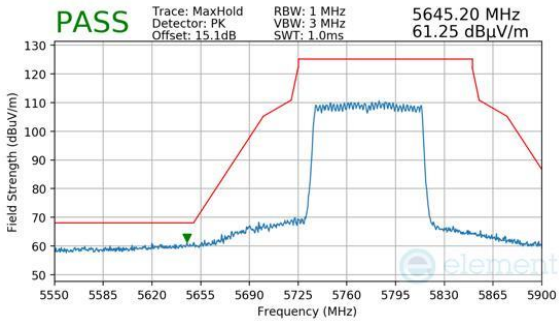
Plot 7-1990. CDD DIVERSITY (PEAK, CH.122, 802.11AX(SU), MCS4)



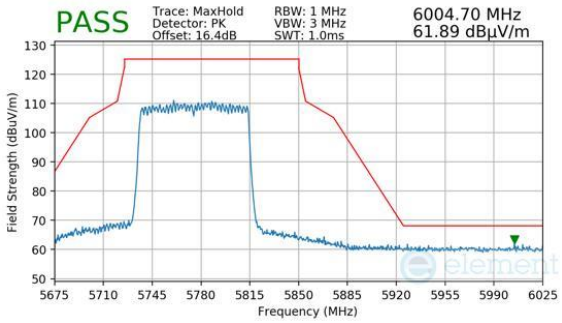
Plot 7-1988. CDD DIVERSITY (PEAK & AVERAGE, CH.122, 802.11AX(SU), MCS11)



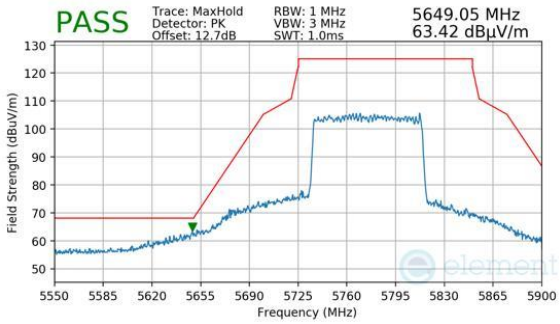
Plot 7-1991. CDD DIVERSITY (PEAK, CH.122, 802.11AX(SU), MCS11)



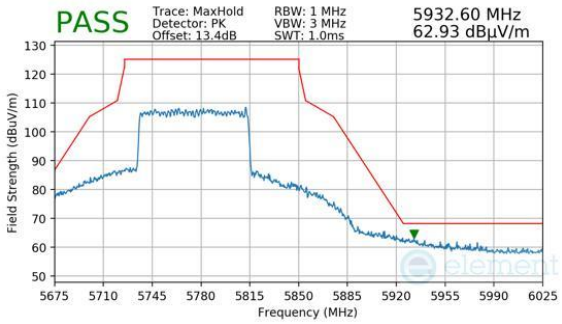
Plot 7-1992. CDD DIVERSITY (PEAK, CH.155, 802.11AX(SU), MCS2)



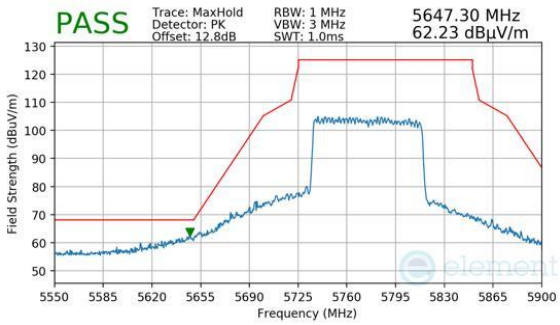
Plot 7-1995. CDD DIVERSITY (PEAK, CH.155, 802.11AX(SU), MCS2)



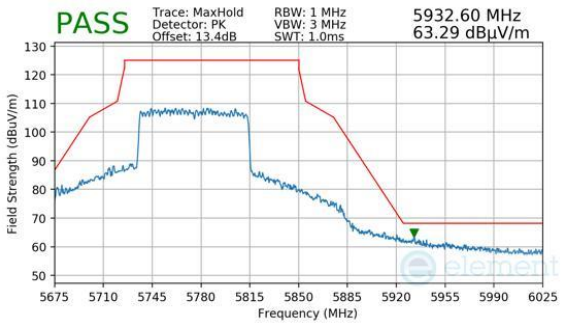
Plot 7-1993. CDD DIVERSITY (PEAK, CH.155, 802.11AX(SU), MCS4)



Plot 7-1996. CDD DIVERSITY (PEAK, CH.155, 802.11AX(SU), MCS4)



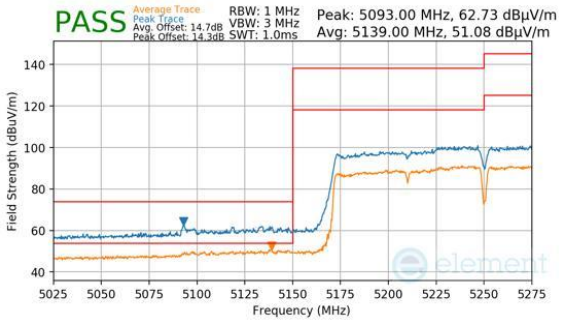
Plot 7-1994. CDD DIVERSITY (PEAK, CH.155, 802.11AX(SU), MCS11)



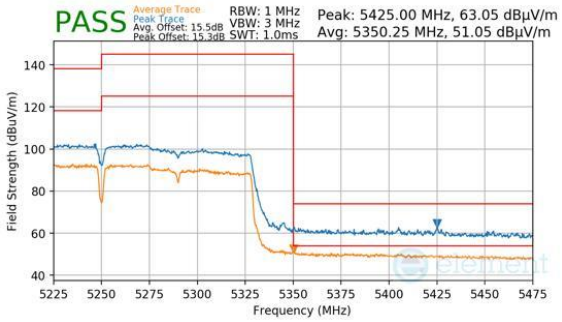
Plot 7-1997. CDD DIVERSITY (PEAK, CH.155, 802.11AX(SU), MCS11)

7.6.25 CDD Diversity Radiated Band Edge Measurements (160MHz BW)

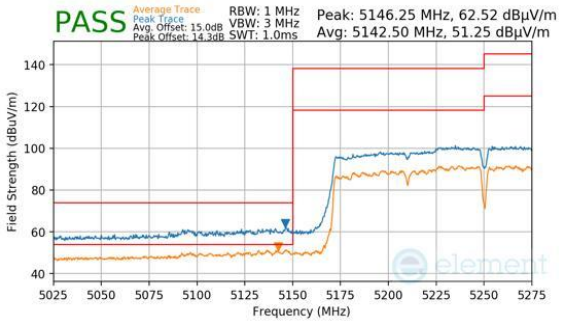
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]



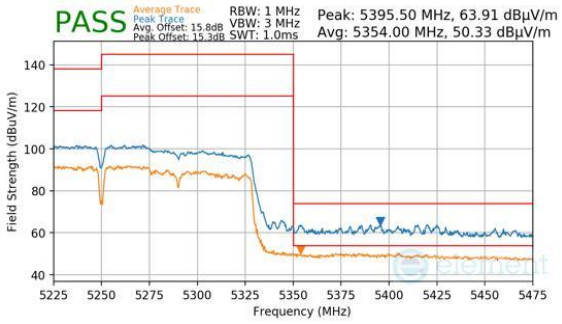
Plot 7-1998. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AC, MCS2)



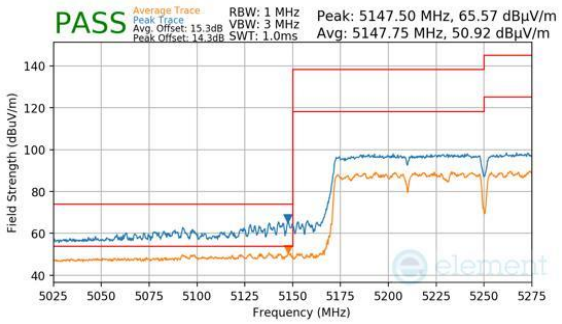
Plot 7-2001. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AC, MCS2)



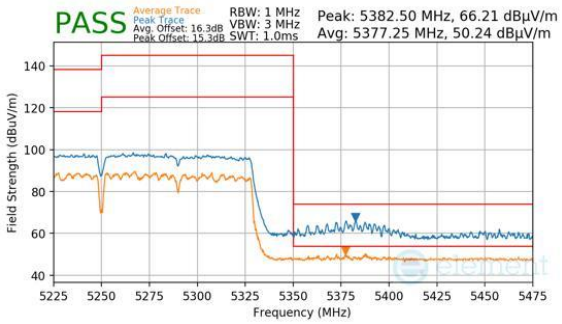
Plot 7-1999. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AC, MCS4)



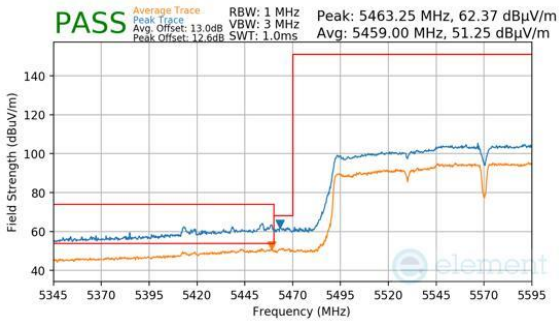
Plot 7-2002. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AC, MCS4)



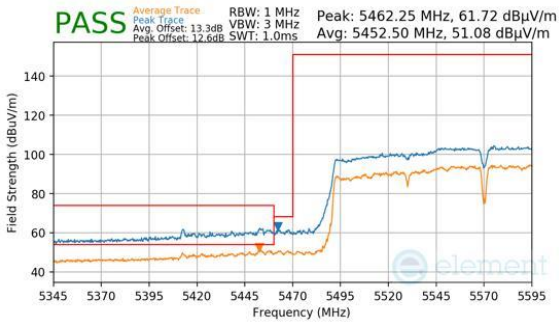
Plot 7-2000. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AC, MCS9)



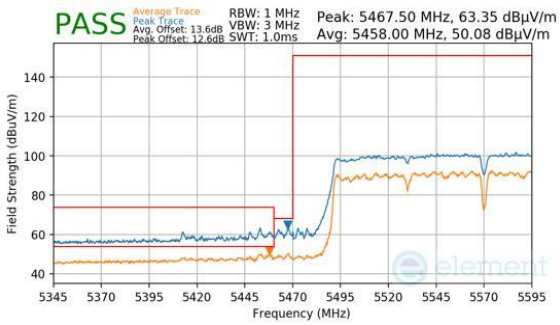
Plot 7-2003. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AC, MCS9)



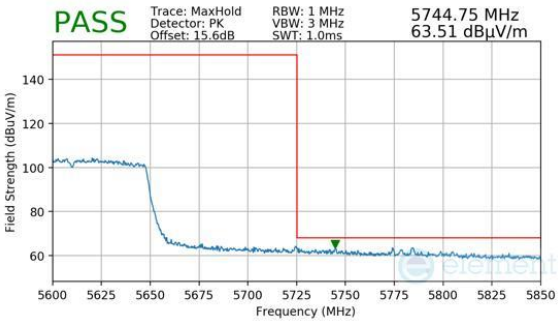
Plot 7-2004. CDD DIVERSITY (PEAK & AVERAGE, CH.114, 802.11AC, MCS2)



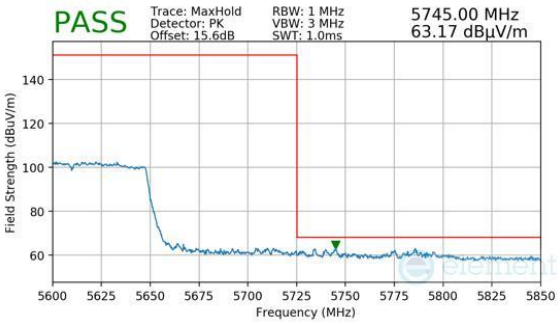
Plot 7-2005. CDD DIVERSITY (PEAK & AVERAGE, CH.114, 802.11AC, MCS4)



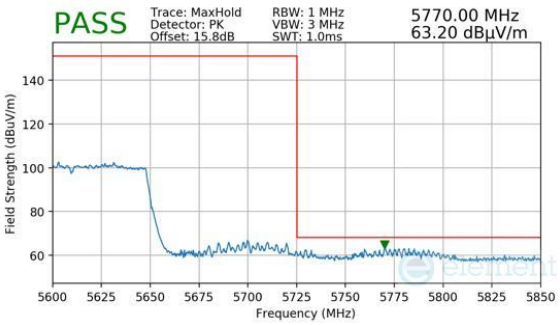
Plot 7-2006. CDD DIVERSITY (PEAK & AVERAGE, CH.114, 802.11AC, MCS9)



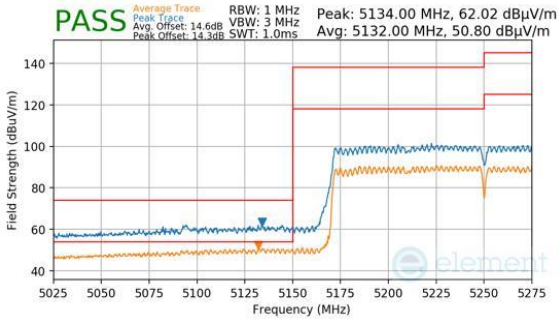
Plot 7-2007. CDD DIVERSITY (PEAK, CH.114, 802.11AC, MCS2)



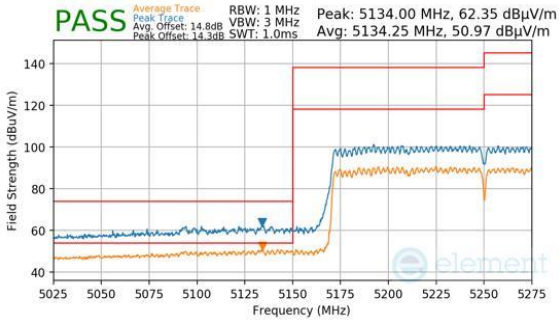
Plot 7-2008. CDD DIVERSITY (PEAK, CH.114, 802.11AC, MCS4)



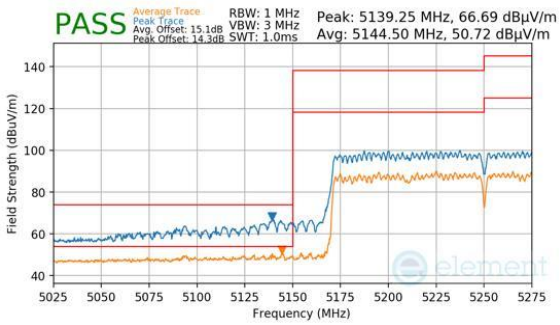
Plot 7-2009. CDD DIVERSITY (PEAK, CH.114, 802.11AC, MCS9)



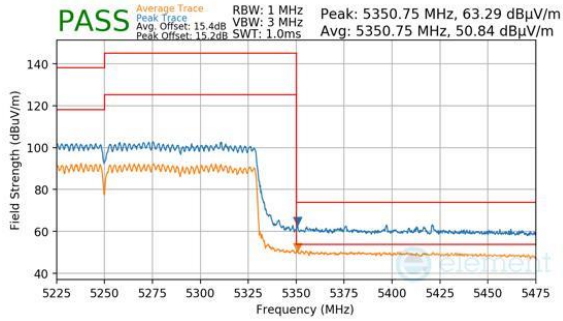
Plot 7-2010. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AX(SU), MCS2)



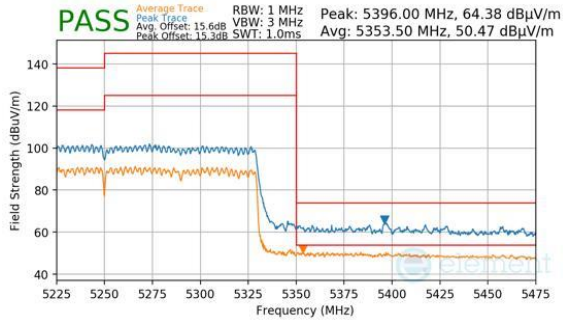
Plot 7-2011. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AX(SU), MCS4)



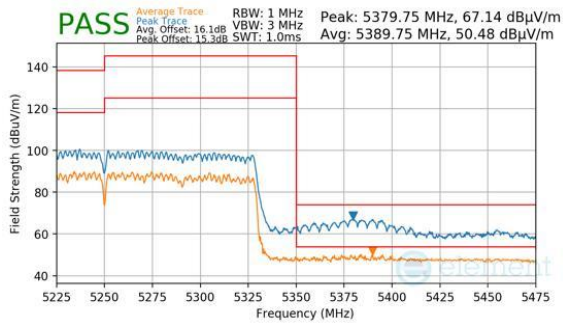
Plot 7-2012. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AX(SU), MCS11)



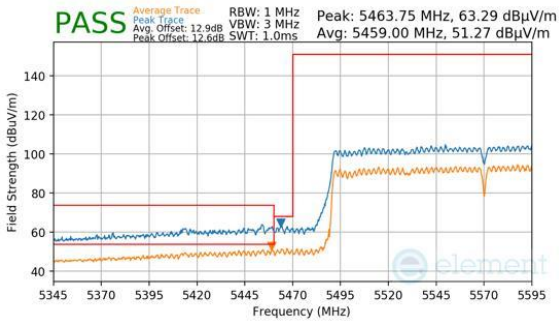
Plot 7-2013. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AX(SU), MCS2)



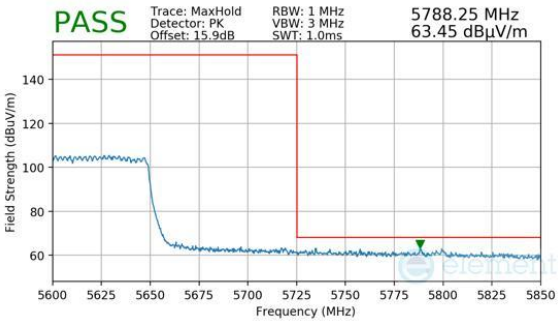
Plot 7-2014. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AX(SU), MCS4)



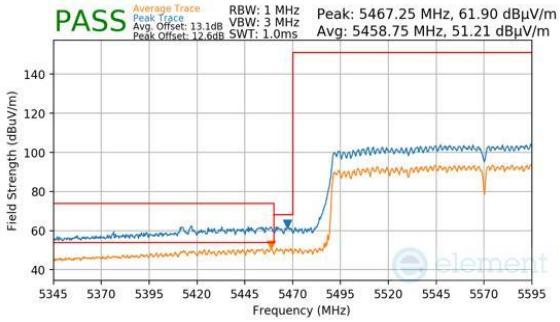
Plot 7-2015. CDD DIVERSITY (PEAK & AVERAGE, CH.50, 802.11AX(SU), MCS11)



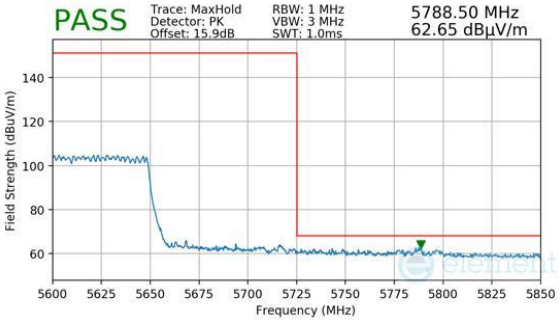
Plot 7-2016. CDD DIVERSITY (PEAK & AVERAGE, CH.114, 802.11AX(SU), MCS2)



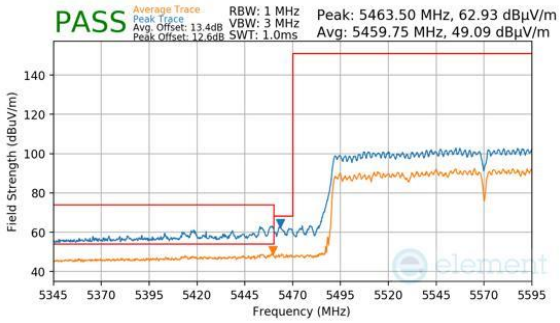
Plot 7-2019. CDD DIVERSITY (PEAK, CH.114, 802.11AX(SU), MCS2)



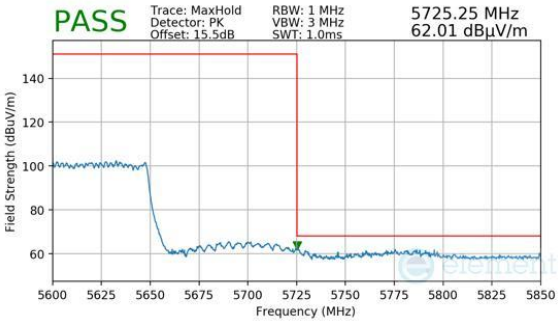
Plot 7-2017. CDD DIVERSITY (PEAK & AVERAGE, CH.114, 802.11AX(SU), MCS4



Plot 7-2020. CDD DIVERSITY (PEAK, CH.114, 802.11AX(SU), MCS4)



Plot 7-2018. CDD DIVERSITY (PEAK & AVERAGE, CH.114, 802.11AX(SU), MCS11)



Plot 7-2021. CDD DIVERSITY (PEAK, CH.114, 802.11AX(SU), MCS11)

7.7 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 7-366 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 7-366. 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 = quasi-peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

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

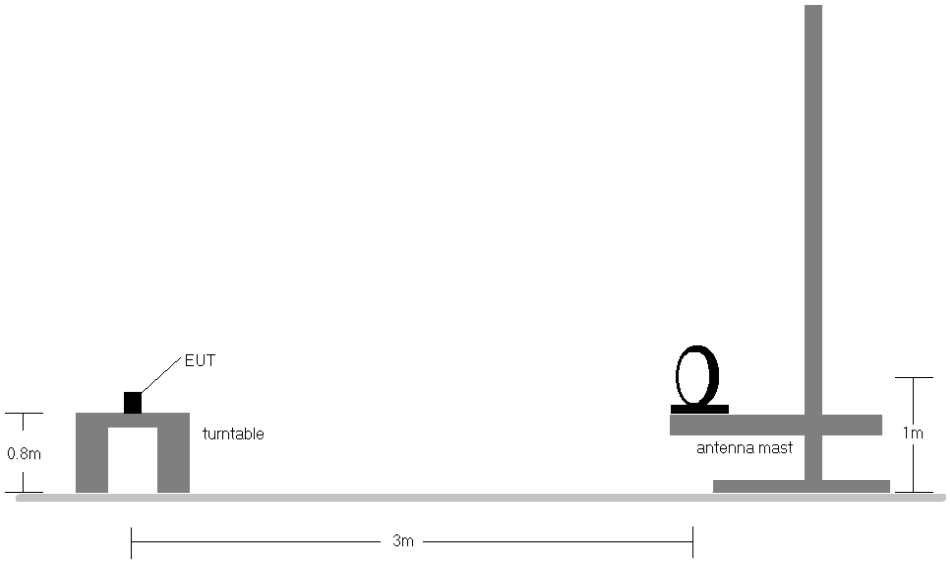


Figure 7-6. Radiated Test Setup < 30MHz

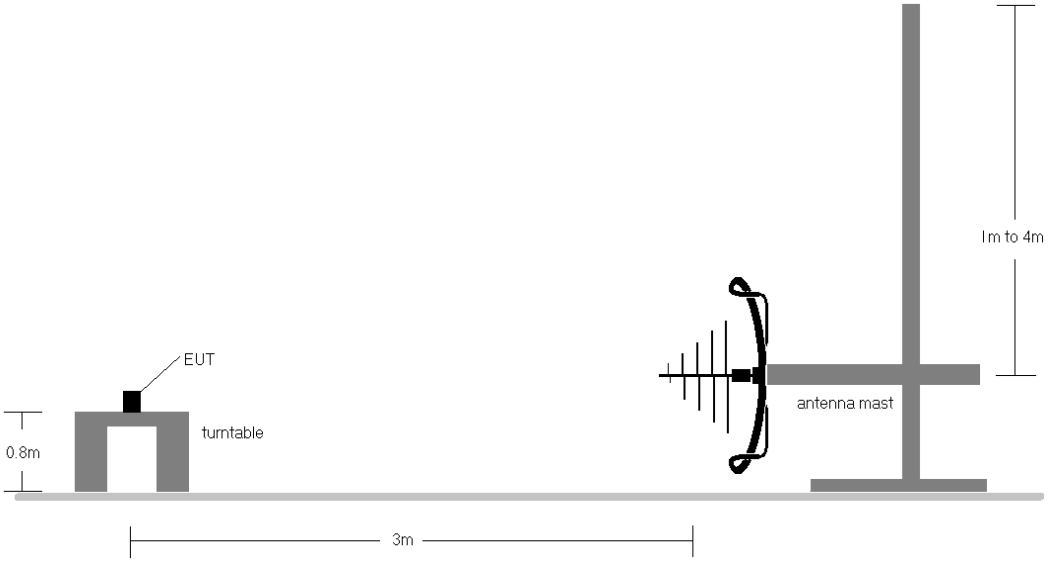


Figure 7-7. Radiated Test Setup < 1GHz

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 7-366.
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 on emissions that were 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. No spurious emissions were detected within 20dB of the limit below 30MHz.
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. 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
10. All antenna configurations were investigated and only the worst case is reported.
11. The unit was tested with all possible modes and only the highest emission is reported.

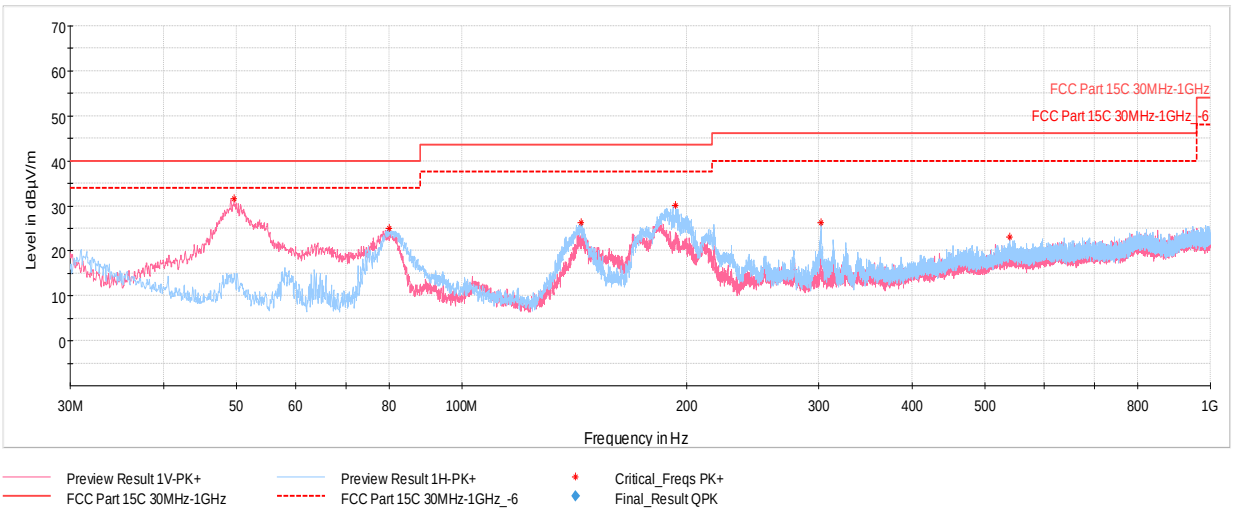
Sample Calculations

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 $_{[dB]}$ - Preamp Gain $_{[dB]}$
- Margin $_{[dB]}$ = Field Strength Level $_{[dB\mu V/m]}$ – Limit $_{[dB\mu V/m]}$

CDD Primary Radiated Spurious Emissions Measurements (Below 1GHz)

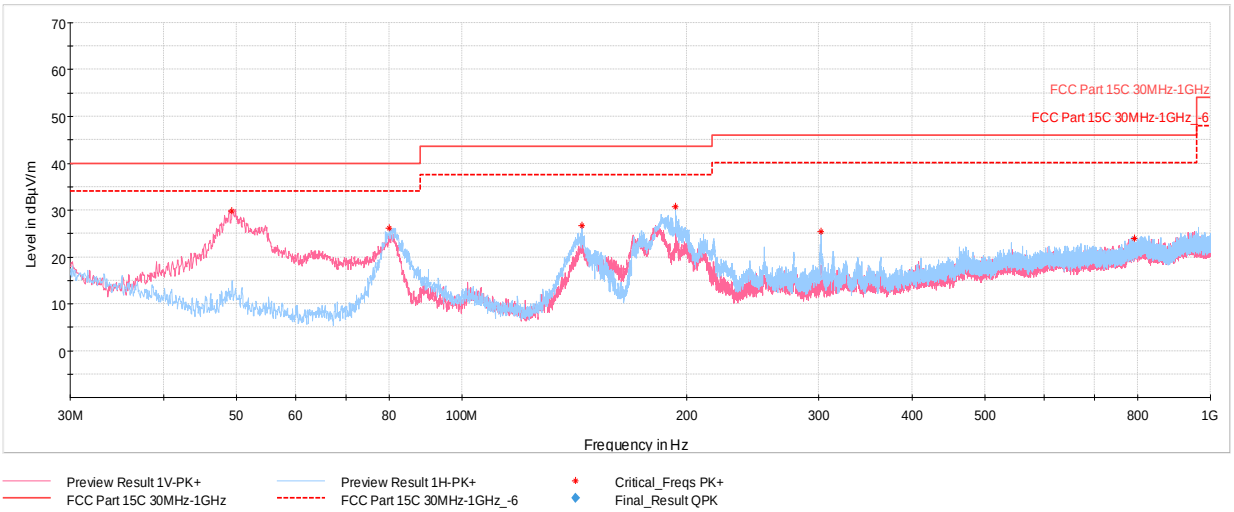
§15.209; RSS-Gen [8.9]



Plot 7-2022. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11n, Ch.40 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]
49.69	Max Peak	V	100	0	-52.12	-23.20	31.68	40.00	-8.32
80.05	Max Peak	H	200	252	-59.02	-23.03	24.95	40.00	-15.05
144.56	Max Peak	H	200	215	-60.45	-20.26	26.29	43.52	-17.23
193.15	Max Peak	H	100	224	-58.05	-18.85	30.10	43.52	-13.42
301.79	Max Peak	H	100	110	-65.68	-15.15	26.17	46.02	-19.85
539.88	Max Peak	H	200	2	-75.80	-8.22	22.98	46.02	-23.04

Table 7-367. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11n, Ch.40 with AC/DC Adapter



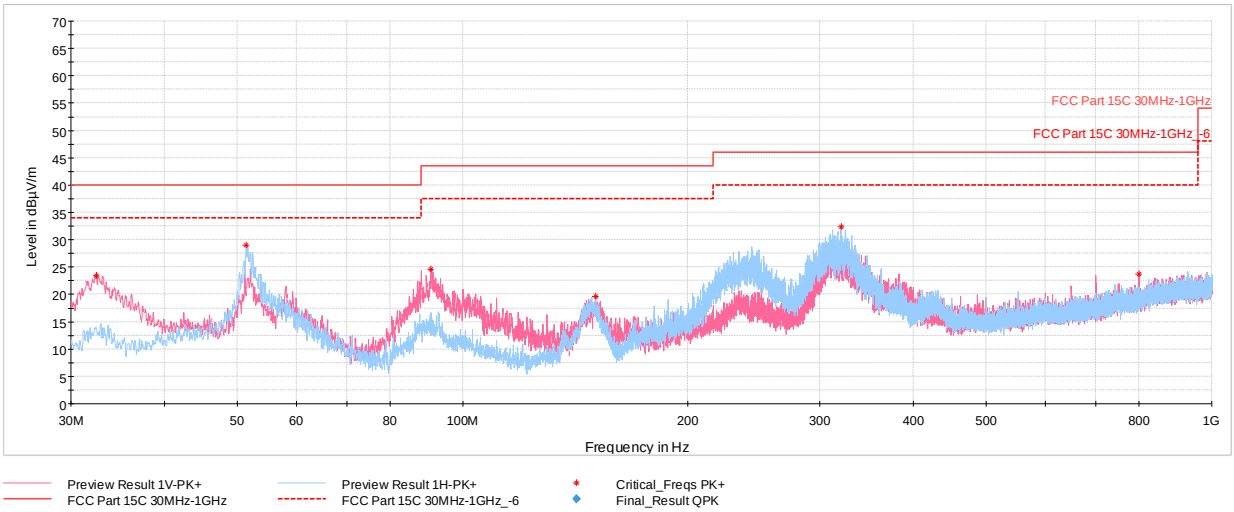
Plot 7-2023. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11ax (SU), Ch.40 with AC/DC Adapter

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]
49.35	Max Peak	V	200	6	-53.97	-23.20	29.83	40.00	-10.17
80.10	Max Peak	H	200	105	-57.84	-23.04	26.12	40.00	-13.88
144.70	Max Peak	H	200	12	-60.06	-20.26	26.68	43.52	-16.84
193.15	Max Peak	H	100	211	-57.40	-18.85	30.75	43.52	-12.77
301.79	Max Peak	H	100	119	-66.38	-15.15	25.47	46.02	-20.55
791.01	Max Peak	V	100	94	-77.47	-5.57	23.96	46.02	-22.06

Table 7-368. Radiated Spurious Emissions below 1GHz CDD Primary, 802.11ax (SU), Ch.40 with AC/DC Adapter

CDD Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

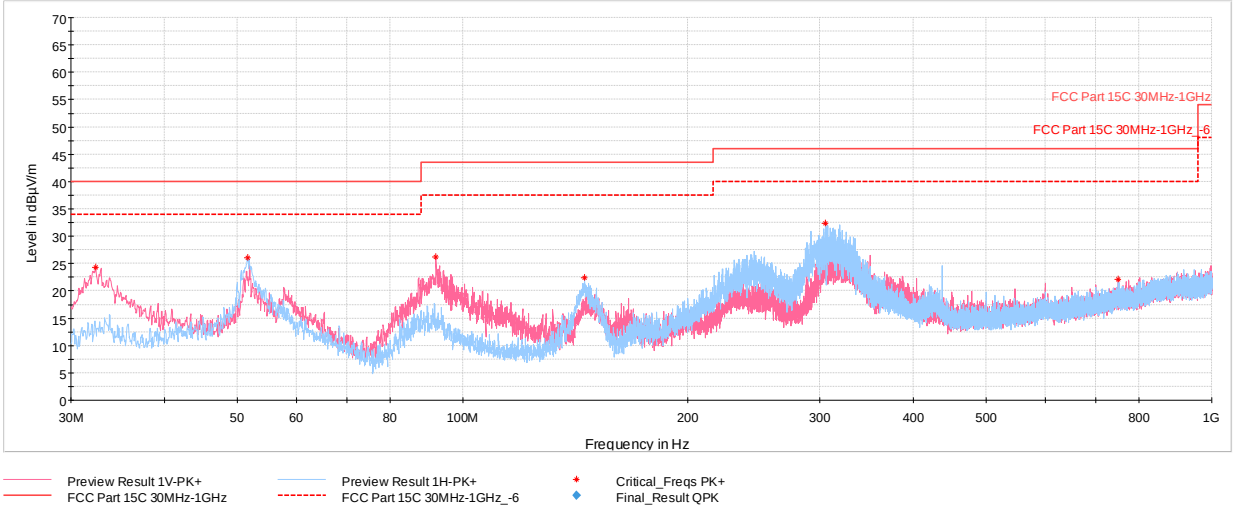
§15.209; RSS-Gen [8.9]



Plot 7-2024. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11n, Ch.40 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]
32.47	Max Peak	V	100	31	-67.49	-16.03	23.48	40.00	-16.52
51.44	Max Peak	H	300	192	-64.82	-13.12	29.06	40.00	-10.94
90.72	Max Peak	V	100	223	-64.33	-18.11	24.56	43.52	-18.96
150.47	Max Peak	H	200	333	-67.24	-20.20	19.56	43.52	-23.96
320.37	Max Peak	H	100	112	-60.61	-13.97	32.42	46.02	-13.60
799.60	Max Peak	V	200	175	-78.58	-4.62	23.80	46.02	-22.22

Table 7-369. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11n, Ch.40 with Laptop



Plot 7-2025. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11ax (SU), Ch.40 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]
32.38	Max Peak	V	100	45	-66.57	-16.05	24.38	40.00	-15.62
51.68	Max Peak	H	300	197	-67.81	-13.13	26.06	40.00	-13.94
92.13	Max Peak	V	100	39	-63.08	-17.76	26.16	43.52	-17.36
145.43	Max Peak	H	200	354	-64.06	-20.57	22.37	43.52	-21.15
305.29	Max Peak	H	100	80	-60.38	-14.28	32.34	46.02	-13.68
749.79	Max Peak	V	100	178	-79.78	-5.14	22.08	46.02	-23.94

Table 7-370. Radiated Spurious Emissions below 1GHz CDD Diversity, 802.11ax (SU), Ch.40 with AC/DC Adapter

7.8 AC Line-Conducted Emissions Measurement

§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 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 7-371. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2013, Section 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

Test Setup

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

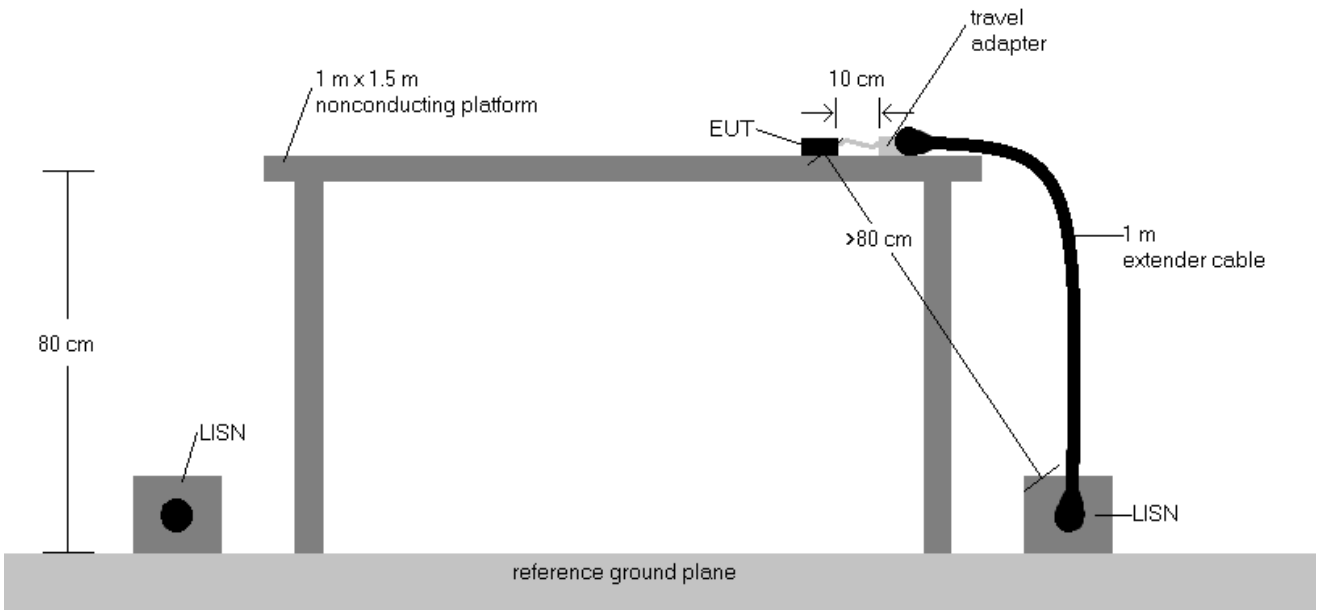
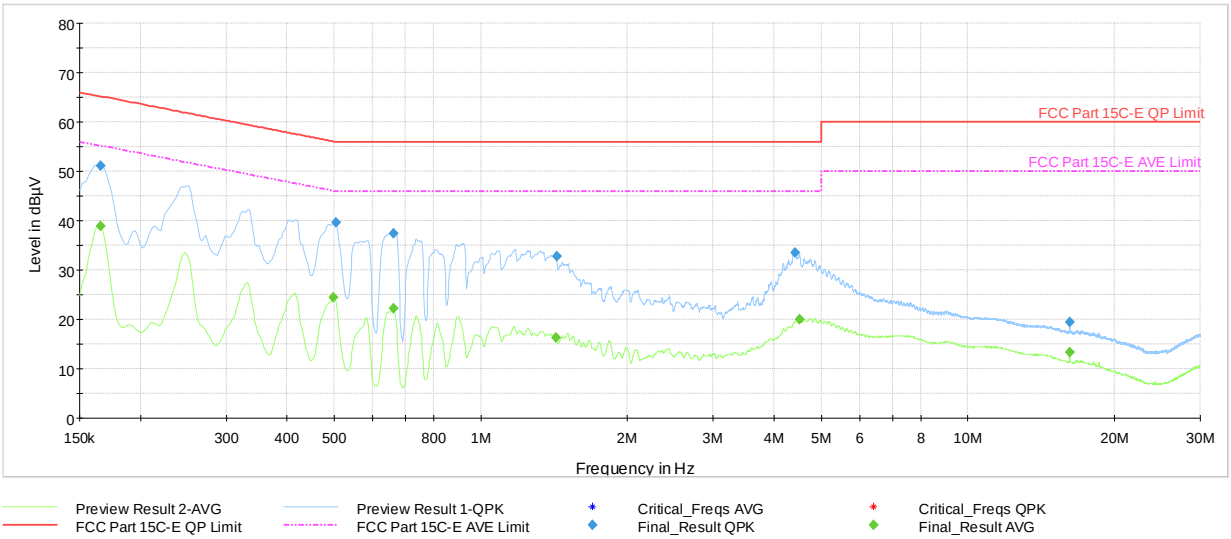


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

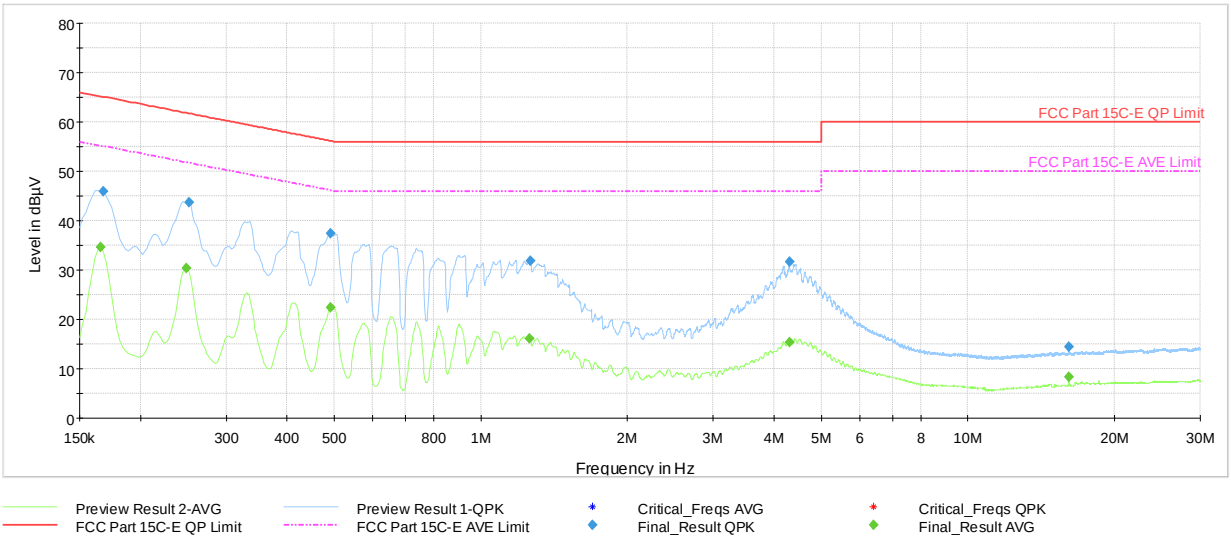
1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
    a. EUT powered by AC/DC adaptor via USB-C 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 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) + Correction Factor (dB)
6. Margin (dB) = QP/AV Level (dBµV) - QP/AV Limit (dBµV)
7. Traces shown in plots 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.



Plot 7-2026. AC Line Conducted Plot with 802.11n CDD Primary – Ch.40 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	38.91	55.17	-16.26	L1	GND
0.166	FINAL	51.2	—	65.17	-13.97	L1	GND
0.499	FINAL	—	24.37	46.02	-21.66	L1	GND
0.503	FINAL	39.7	—	56.00	-16.34	L1	GND
0.661	FINAL	—	22.23	46.00	-23.77	L1	GND
0.661	FINAL	37.5	—	56.00	-18.52	L1	GND
1.426	FINAL	—	16.28	46.00	-29.72	L1	GND
1.430	FINAL	32.8	—	56.00	-23.20	L1	GND
4.421	FINAL	33.5	—	56.00	-22.53	L1	GND
4.506	FINAL	—	20.06	46.00	-25.94	L1	GND
16.163	FINAL	—	13.38	50.00	-36.62	L1	GND
16.163	FINAL	19.4	—	60.00	-40.64	L1	GND

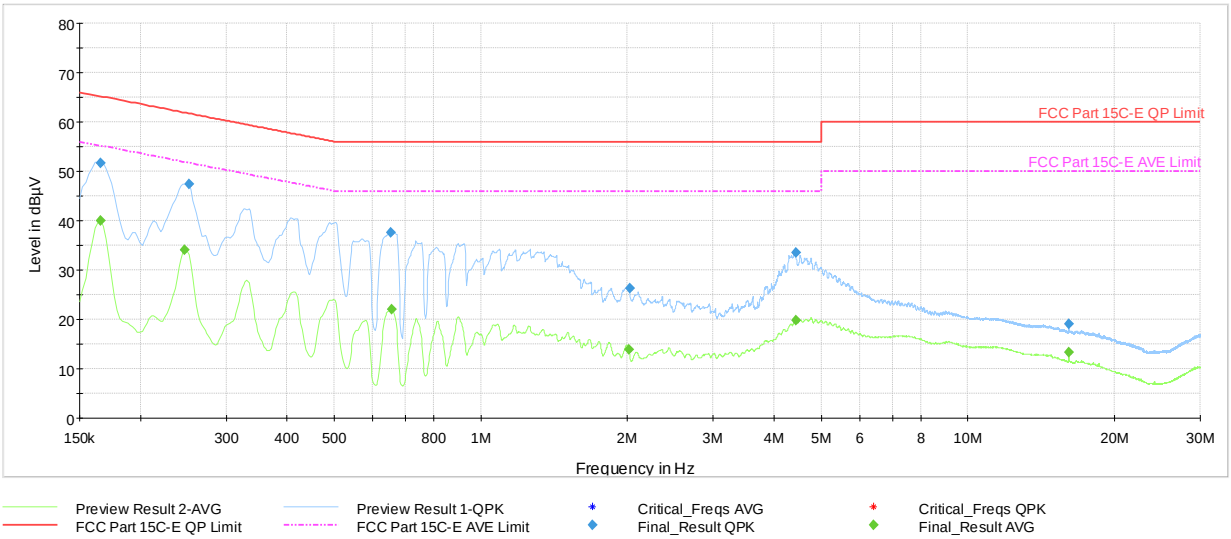
Table 7-372. AC Line Conducted Data with 802.11n CDD Primary – Ch.40 (L1) with AC/DC Adapter



Plot 7-2027. AC Line Conducted Plot with 802.11n CDD Primary – Ch.40 (N), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	34.54	55.17	-20.63	N	GND
0.168	FINAL	45.9	—	65.06	-19.14	N	GND
0.249	FINAL	—	30.46	51.79	-21.33	N	GND
0.251	FINAL	43.6	—	61.72	-18.07	N	GND
0.492	FINAL	—	22.40	46.13	-23.73	N	GND
0.492	FINAL	37.3	—	56.13	-18.80	N	GND
1.259	FINAL	—	16.17	46.00	-29.83	N	GND
1.266	FINAL	31.9	—	56.00	-24.10	N	GND
4.301	FINAL	31.6	—	56.00	-24.42	N	GND
4.304	FINAL	—	15.43	46.00	-30.57	N	GND
16.130	FINAL	—	8.29	50.00	-41.71	N	GND
16.130	FINAL	14.5	—	60.00	-45.52	N	GND

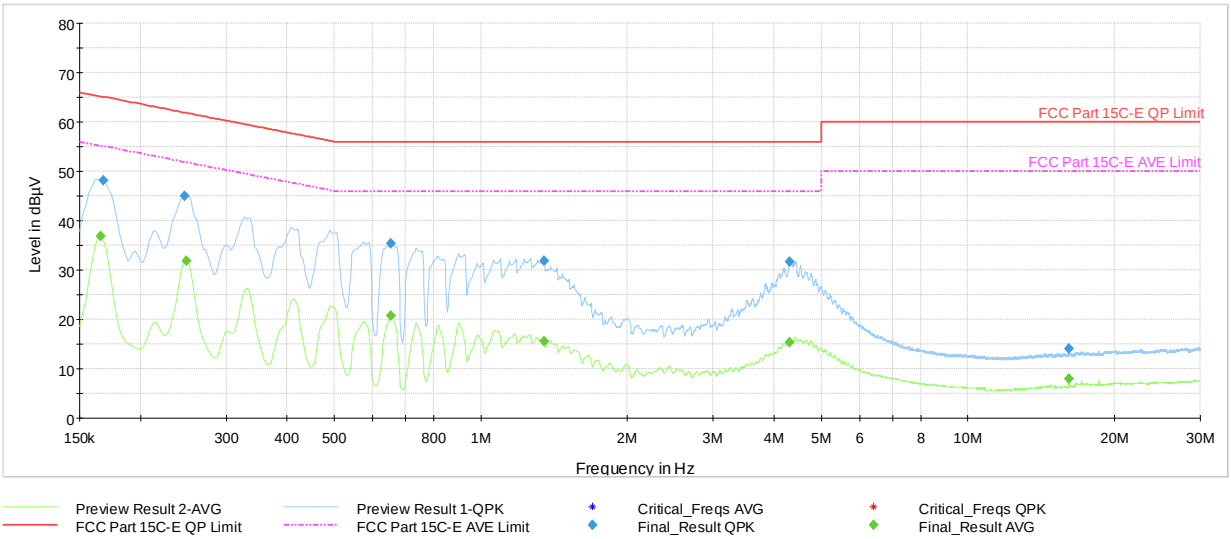
Table 7-373. AC Line Conducted Data with 802.11n CDD Primary – Ch.40 (N), with AC/DC Adapter



Plot 7-2028. AC Line Conducted Plot with 802.11ax(SU) CDD Primary – Ch.40 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	39.93	55.17	-15.24	L1	GND
0.166	FINAL	51.8	—	65.17	-13.42	L1	GND
0.247	FINAL	—	34.10	51.87	-17.76	L1	GND
0.251	FINAL	47.4	—	61.72	-14.37	L1	GND
0.654	FINAL	37.7	—	56.00	-18.32	L1	GND
0.656	FINAL	—	22.04	46.00	-23.96	L1	GND
2.011	FINAL	—	13.83	46.00	-32.17	L1	GND
2.022	FINAL	26.4	—	56.00	-29.61	L1	GND
4.430	FINAL	33.6	—	56.00	-22.39	L1	GND
4.432	FINAL	—	19.85	46.00	-26.15	L1	GND
16.121	FINAL	19.1	—	60.00	-40.88	L1	GND
16.123	FINAL	—	13.30	50.00	-36.70	L1	GND

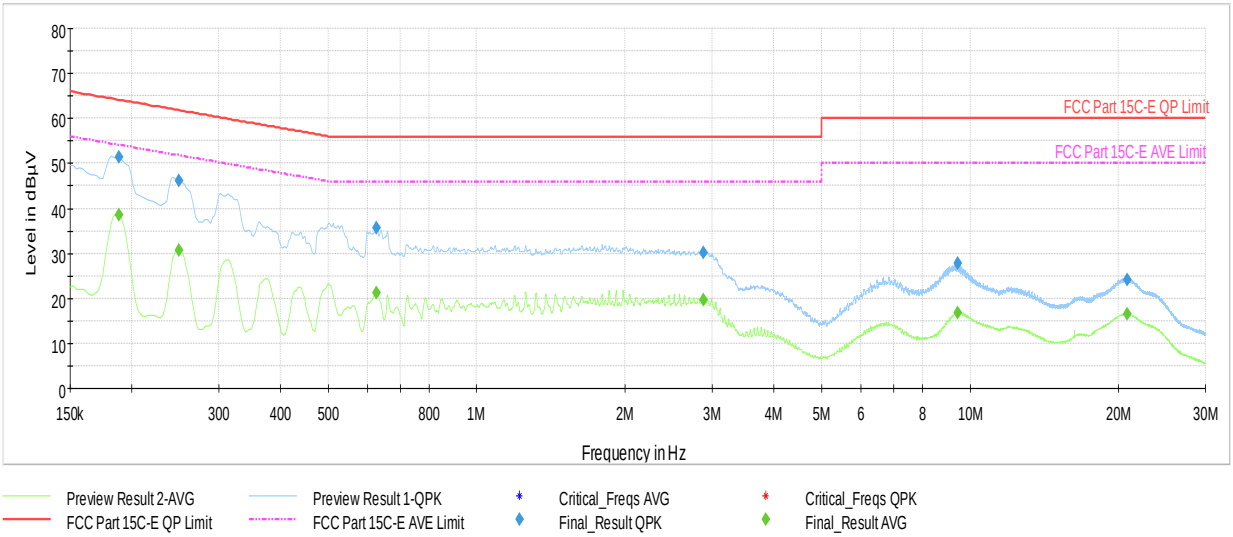
Table 7-374. AC Line Conducted Data with 802.11ax(SU) CDD Primary – Ch.40 (L1) with AC/DC Adapter



Plot 7-2029. AC Line Conducted Plot with 802.11ax(SU) CDD Primary – Ch.40 (N), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.166	FINAL	—	36.93	55.17	-18.24	N	GND
0.168	FINAL	48.2	—	65.06	-16.82	N	GND
0.247	FINAL	45.1	—	61.87	-16.78	N	GND
0.249	FINAL	—	31.86	51.79	-19.93	N	GND
0.654	FINAL	—	20.76	46.00	-25.24	N	GND
0.654	FINAL	35.3	—	56.00	-20.66	N	GND
1.349	FINAL	31.8	—	56.00	-24.23	N	GND
1.349	FINAL	—	15.55	46.00	-30.45	N	GND
4.297	FINAL	31.8	—	56.00	-24.25	N	GND
4.297	FINAL	—	15.44	46.00	-30.56	N	GND
16.118	FINAL	—	8.00	50.00	-42.00	N	GND
16.118	FINAL	14.1	—	60.00	-45.86	N	GND

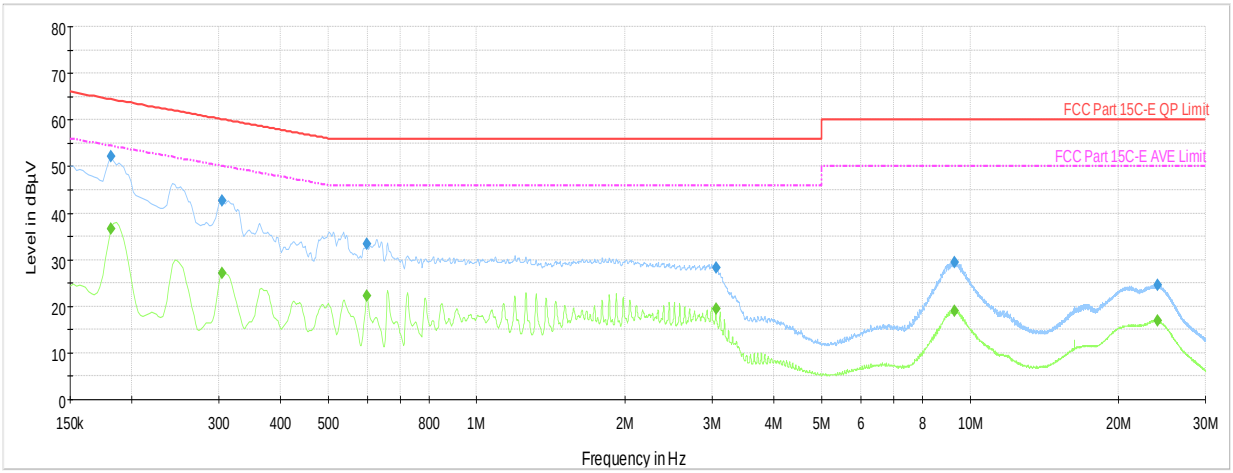
Table 7-375. AC Line Conducted Data with 802.11ax(SU) CDD Primary – Ch.40 (N), with AC/DC Adapter



Plot 7-2030. AC Line Conducted Plot with 802.11n CDD Diversity – Ch.40 (L1), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.188	FINAL	—	38.65	54.11	-15.46	L1	GND
0.188	FINAL	51.4	—	64.11	-12.71	L1	GND
0.249	FINAL	—	30.79	51.79	-21.00	L1	GND
0.249	FINAL	46.1	—	61.79	-15.66	L1	GND
0.627	FINAL	—	21.34	46.00	-24.66	L1	GND
0.627	FINAL	35.6	—	56.00	-20.40	L1	GND
2.877	FINAL	30.2	—	56.00	-25.81	L1	GND
2.877	FINAL	—	19.70	46.00	-26.30	L1	GND
9.420	FINAL	27.8	—	60.00	-32.19	L1	GND
9.420	FINAL	—	16.75	50.00	-33.25	L1	GND
20.774	FINAL	—	16.55	50.00	-33.45	L1	GND
20.774	FINAL	24.0	—	60.00	-35.99	L1	GND

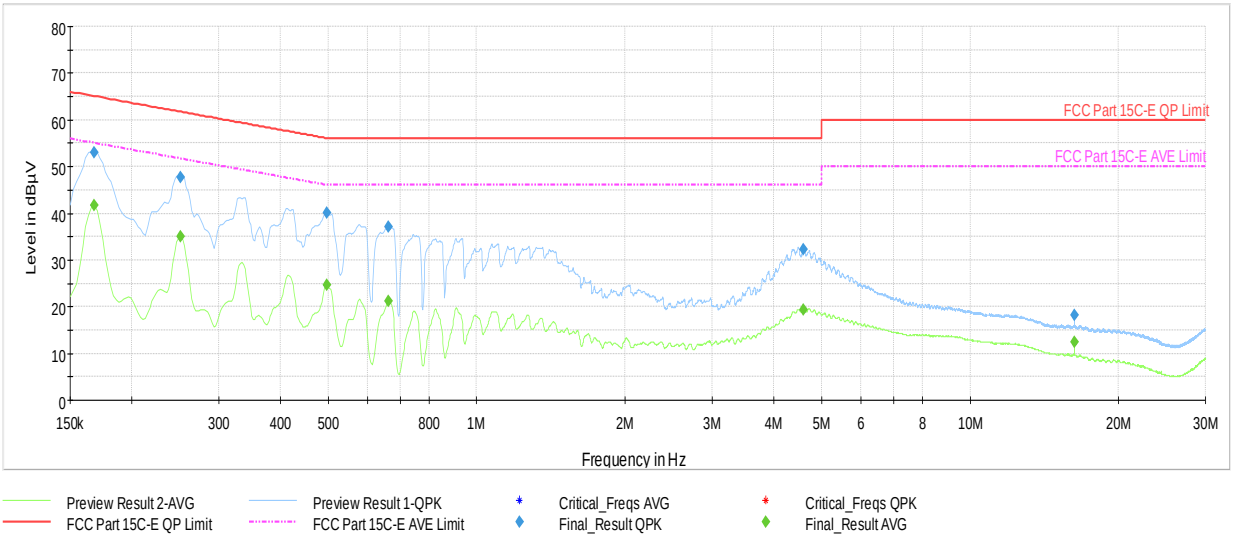
Table 7-376. AC Line Conducted Data with 802.11n CDD Diversity – Ch.40 (L1) with Laptop



Plot 7-2031. AC Line Conducted Plot with 802.11n CDD Diversity – Ch.40 (N), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.182	FINAL	—	36.54	54.42	-17.88	N	GND
0.182	FINAL	52.1	—	64.42	-12.32	N	GND
0.305	FINAL	—	27.24	50.10	-22.86	N	GND
0.305	FINAL	42.7	—	60.10	-17.45	N	GND
0.598	FINAL	—	22.23	46.00	-23.77	N	GND
0.598	FINAL	33.4	—	56.00	-22.64	N	GND
3.055	FINAL	28.3	—	56.00	-27.69	N	GND
3.055	FINAL	—	19.52	46.00	-26.48	N	GND
9.312	FINAL	29.5	—	60.00	-30.52	N	GND
9.312	FINAL	—	18.91	50.00	-31.09	N	GND
23.964	FINAL	—	16.86	50.00	-33.14	N	GND
23.964	FINAL	24.6	—	60.00	-35.36	N	GND

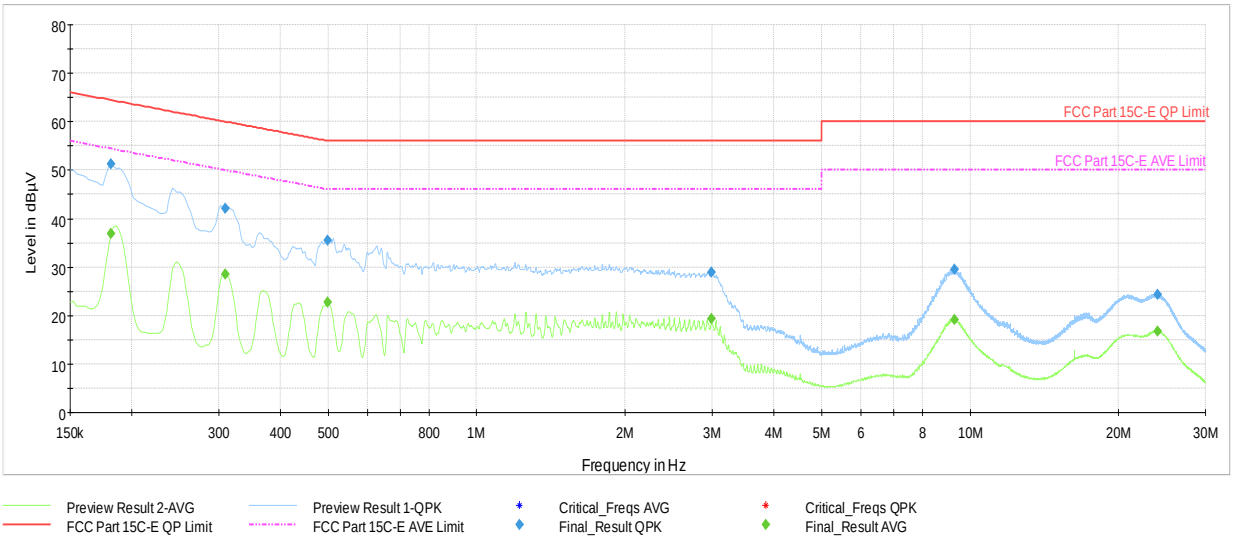
Table 7-377. AC Line Conducted Data with 802.11n CDD Diversity – Ch.40 (N), with Laptop



Plot 7-2032. AC Line Conducted Plot with 802.11ax(SU) CDD Diversity – Ch.40 (L1), with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	41.77	55.06	-13.29	L1	GND
0.168	FINAL	53.1	—	65.06	-11.95	L1	GND
0.251	FINAL	—	35.07	51.72	-16.65	L1	GND
0.251	FINAL	47.8	—	61.72	-13.90	L1	GND
0.497	FINAL	—	24.65	46.06	-21.40	L1	GND
0.497	FINAL	40.1	—	56.06	-16.00	L1	GND
0.663	FINAL	37.1	—	56.00	-18.90	L1	GND
0.663	FINAL	—	21.32	46.00	-24.68	L1	GND
4.594	FINAL	32.3	—	56.00	-23.75	L1	GND
4.594	FINAL	—	19.29	46.00	-26.71	L1	GND
16.276	FINAL	—	12.51	50.00	-37.49	L1	GND
16.276	FINAL	18.1	—	60.00	-41.86	L1	GND

Table 7-378. AC Line Conducted Data with 802.11ax(SU) CDD Diversity – Ch.40 (L1) with AC/DC Adapter



Plot 7-2033. AC Line Conducted Plot with 802.11ax(SU) CDD Diversity – Ch.40 (N), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.182	FINAL	—	36.87	54.42	-17.55	N	GND
0.182	FINAL	51.3	—	64.42	-13.16	N	GND
0.310	FINAL	—	28.48	49.98	-21.50	N	GND
0.310	FINAL	42.2	—	59.98	-17.83	N	GND
0.499	FINAL	35.6	—	56.02	-20.41	N	GND
0.499	FINAL	—	22.64	46.02	-23.38	N	GND
2.992	FINAL	29.0	—	56.00	-26.98	N	GND
2.992	FINAL	—	19.35	46.00	-26.65	N	GND
9.290	FINAL	—	19.11	50.00	-30.89	N	GND
9.299	FINAL	29.6	—	60.00	-30.43	N	GND
23.944	FINAL	24.3	—	60.00	-35.67	N	GND
23.948	FINAL	—	16.79	50.00	-33.21	N	GND

Table 7-379. AC Line Conducted Data with 802.11ax(SU) CDD Diversity – Ch.40 (N), with Laptop

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2899** and **IC: 579C-A2899** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.