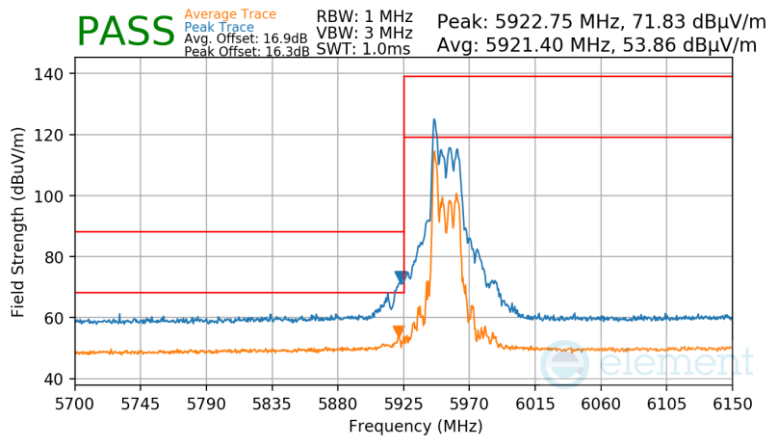


7.7.22 SDM Diversity Radiated Band Edge Measurements (20MHz BW)

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

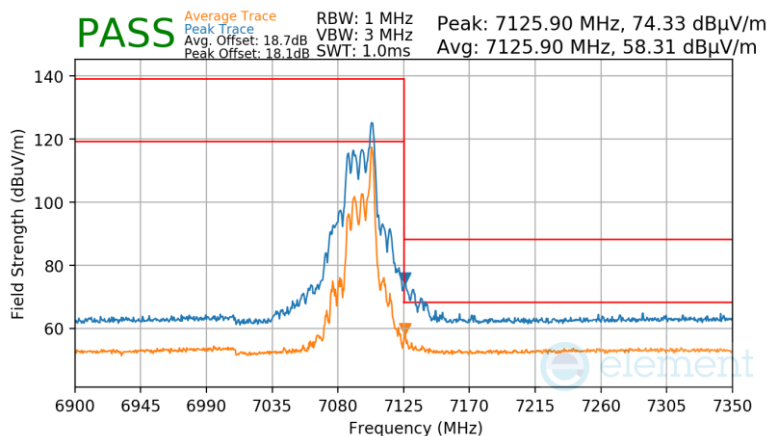
RU26

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1



Plot 7-1781. SDM Diversity Radiated Lower Band Edge (Peak/Average – UNII Band 5 – RU26)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	7095MHz
Channel:	229



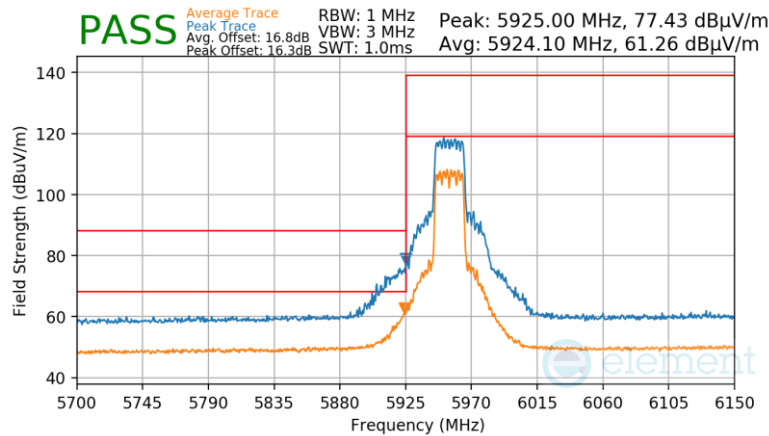
Plot 7-1782. SDM Diversity Radiated Upper Band Edge (Peak/Average – UNII Band 8 – RU26)

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 564 of 596

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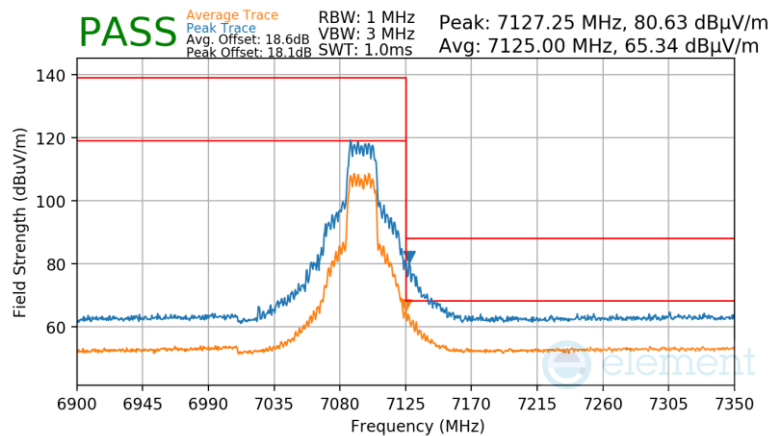
RU242

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 5955MHz
 Channel: 1



Plot 7-1783. SDM Diversity Radiated Lower Band Edge (Peak/Average – UNII Band 5 – RU242)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 7095MHz
 Channel: 229

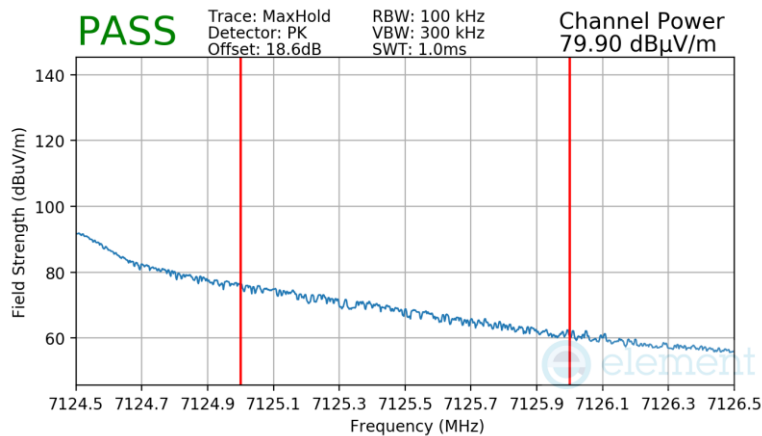


Plot 7-1784. SDM Diversity Radiated Upper Band Edge (Peak/Average – UNII Band 8 – RU242)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 565 of 596

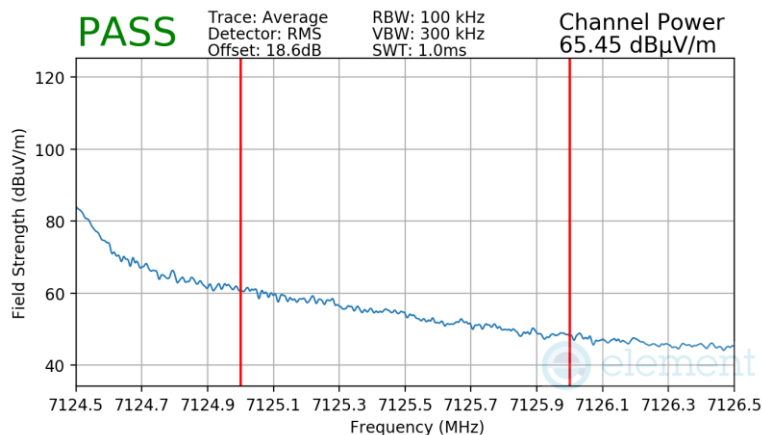
V 10.5 12/15/2021

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233



Plot 7-1785. SDM Diversity Radiated Upper Band Edge (Peak – UNII Band 8 – RU242)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 7115MHz
Channel: 233



Plot 7-1786. SDM Diversity Radiated Upper Band Edge (Average – UNII Band 8 – RU242)

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 566 of 596

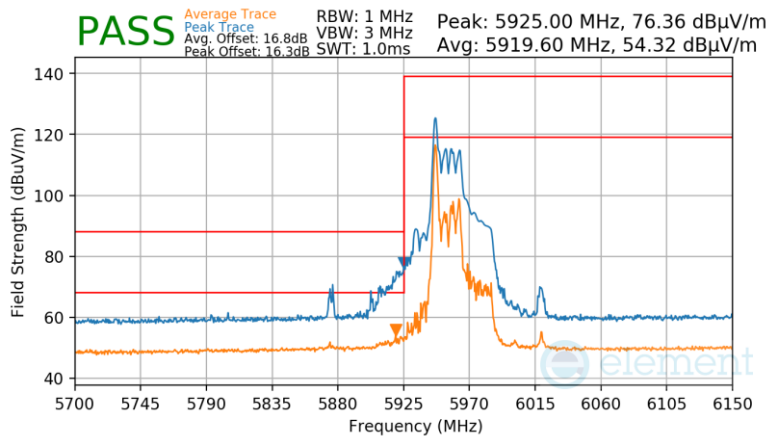
V 10.5 12/15/2021

7.7.23 SDM Diversity Radiated Band Edge Measurements (40MHz BW)

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

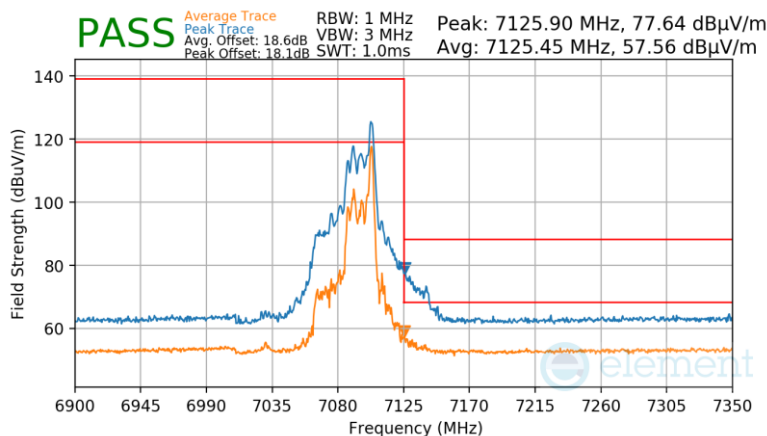
RU26

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3



Plot 7-1787. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS11
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



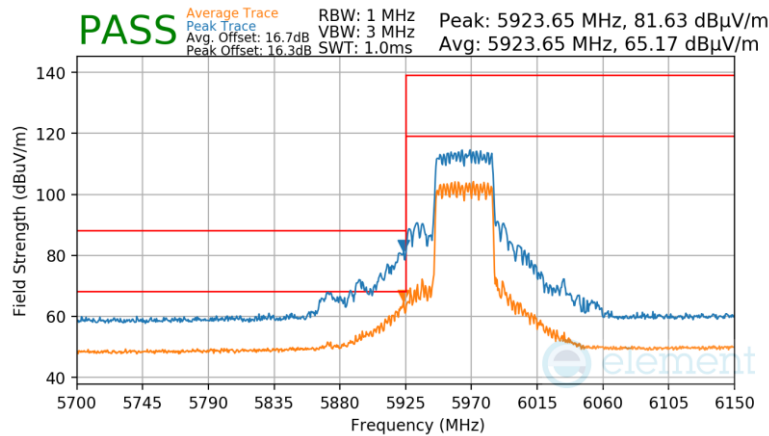
Plot 7-1788. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU26)

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 567 of 596

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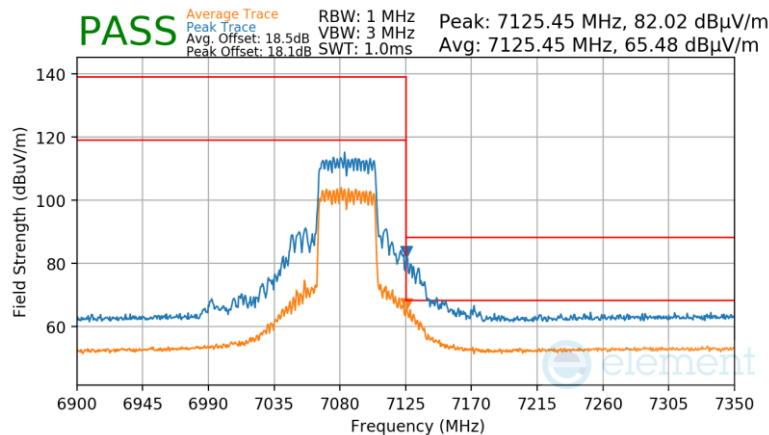
RU484

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 5965MHz
 Channel: 3



Plot 7-1789. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU484)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 7085MHz
 Channel: 227



Plot 7-1790. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU484)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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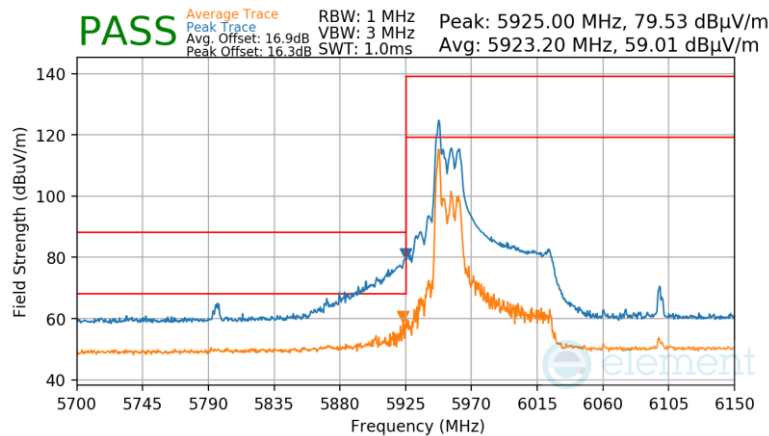
V 10.5 12/15/2021

7.7.24 SDM Diversity Radiated Band Edge Measurements (80MHz BW)

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

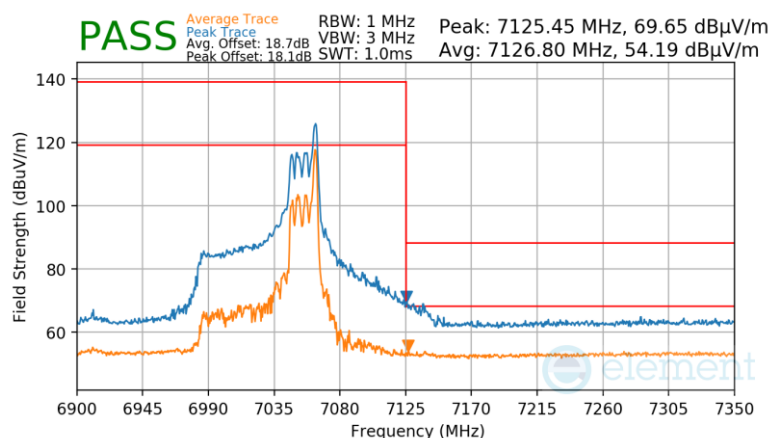
RU26

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 5985MHz
Channel: 7



Plot 7-1791. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 7025MHz
Channel: 215



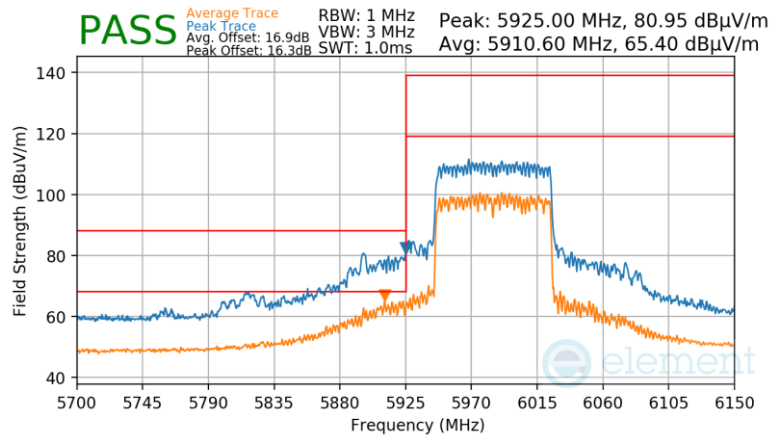
Plot 7-1792. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU26)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 569 of 596

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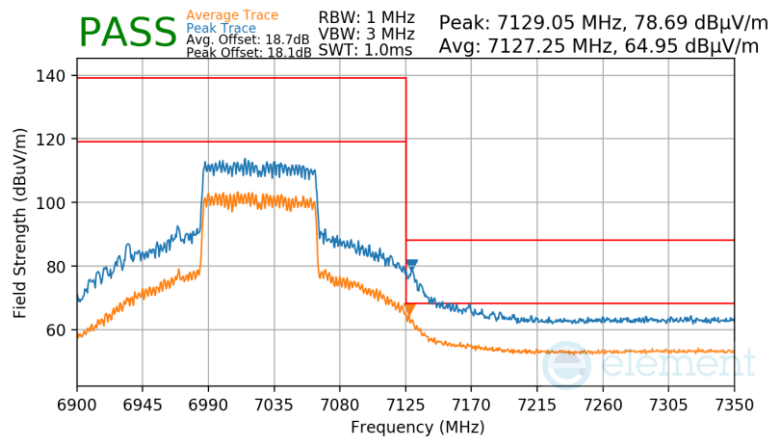
RU996

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 5985MHz
 Channel: 7



Plot 7-1793. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU996)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 7025MHz
 Channel: 215



Plot 7-1794. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU996)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 570 of 596

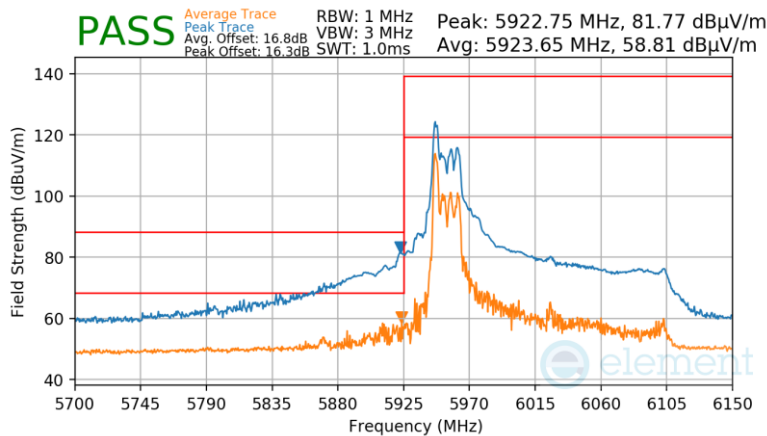
V 10.5 12/15/2021

7.7.25 SDM Diversity Radiated Band Edge Measurements (160MHz BW)

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

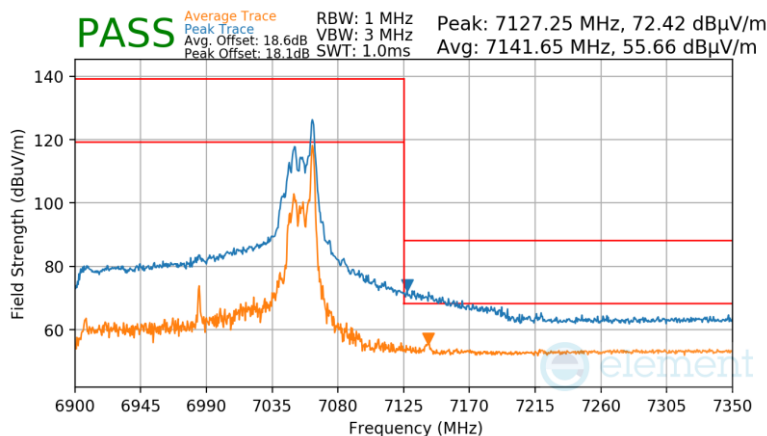
RU26

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6025MHz
Channel: 15



Plot 7-1795. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU26)

Worst Case Mode: 802.11ax
Worst Case Transfer Rate: MCS11
Distance of Measurements: 3 Meters
Operating Frequency: 6985MHz
Channel: 207



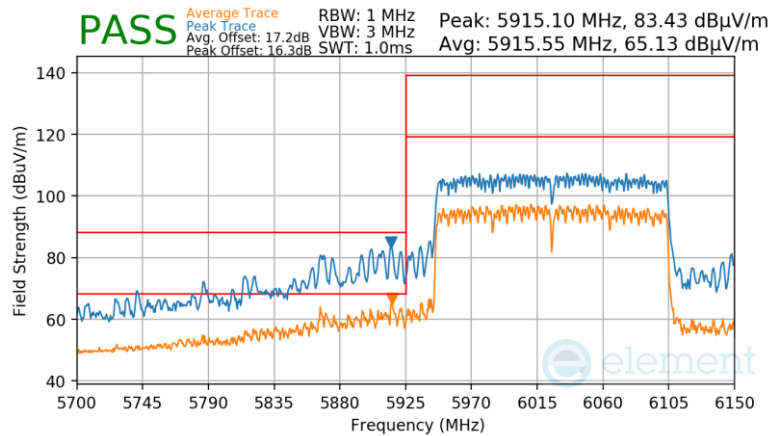
Plot 7-1796. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU26)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 571 of 596

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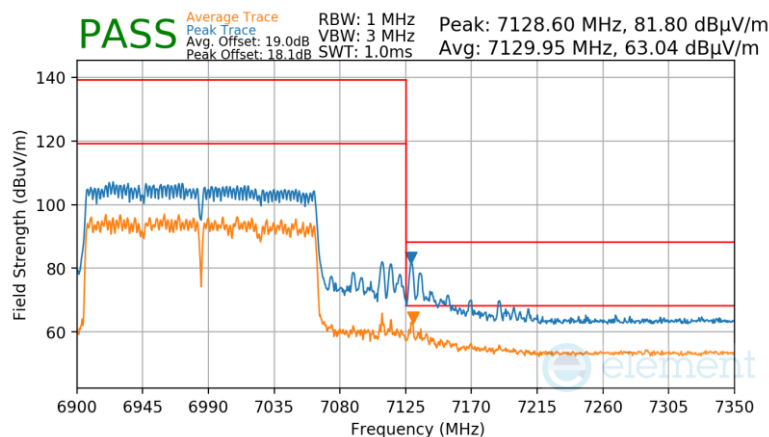
RU996x2

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 6025MHz
 Channel: 15



Plot 7-1797. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5 – RU996x2)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS11
 Distance of Measurements: 3 Meters
 Operating Frequency: 6985MHz
 Channel: 207



Plot 7-1798. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8 – RU996x2)

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 572 of 596

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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 7-280 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 7-280. 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

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Test Setup

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

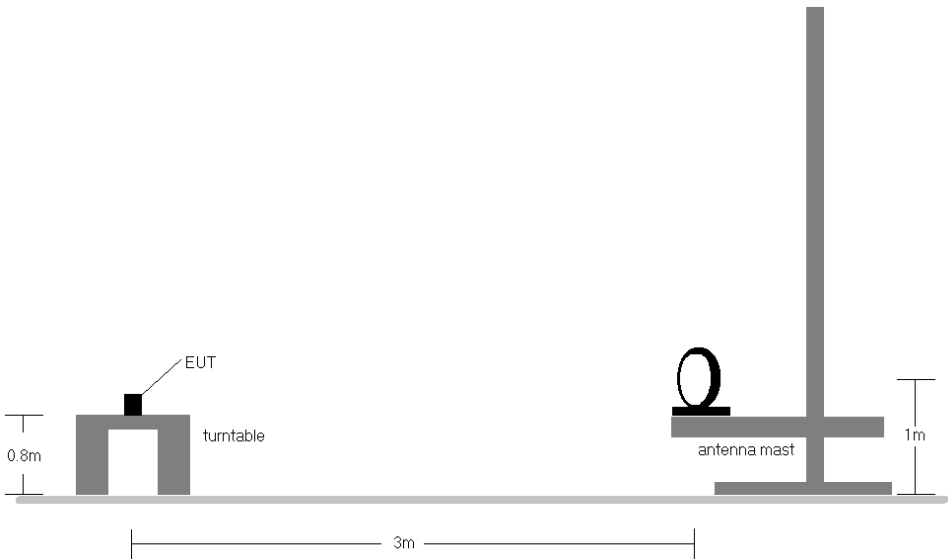


Figure 7-6. Radiated Test Setup < 30MHz

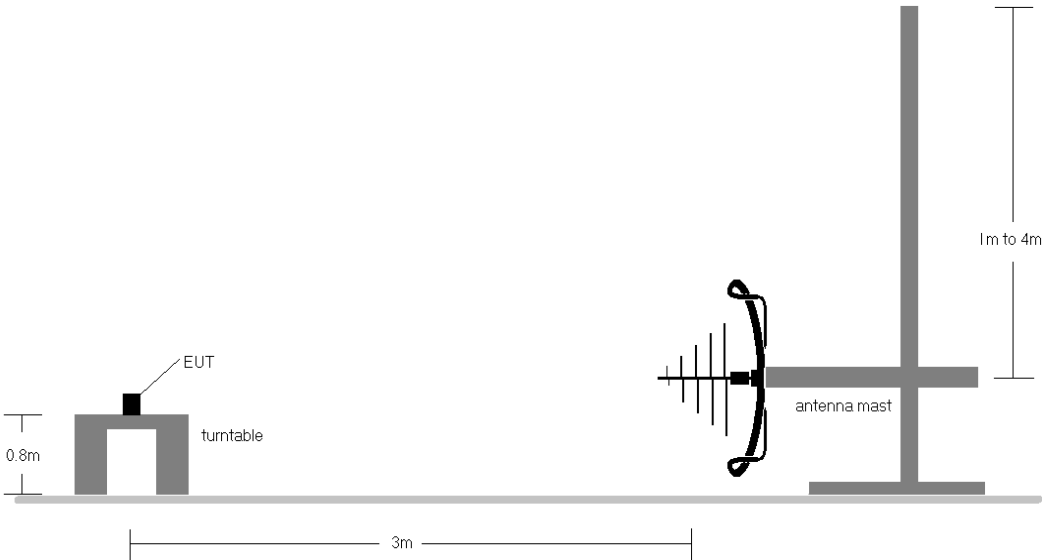


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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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 7-280.
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

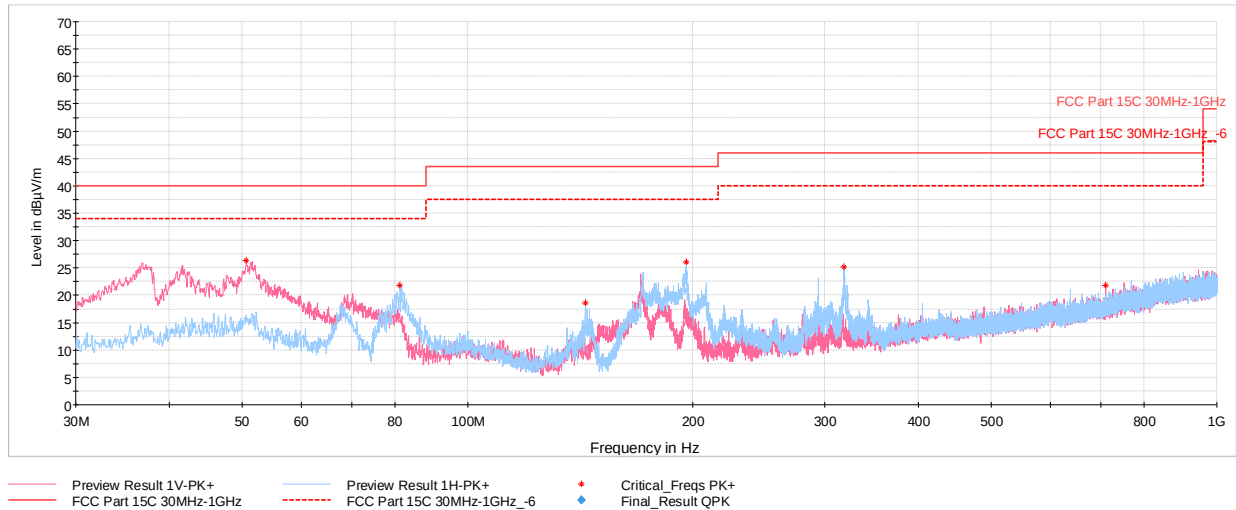
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]} - \text{Preamp Gain}_{[dB]}$
- $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu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

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.8.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



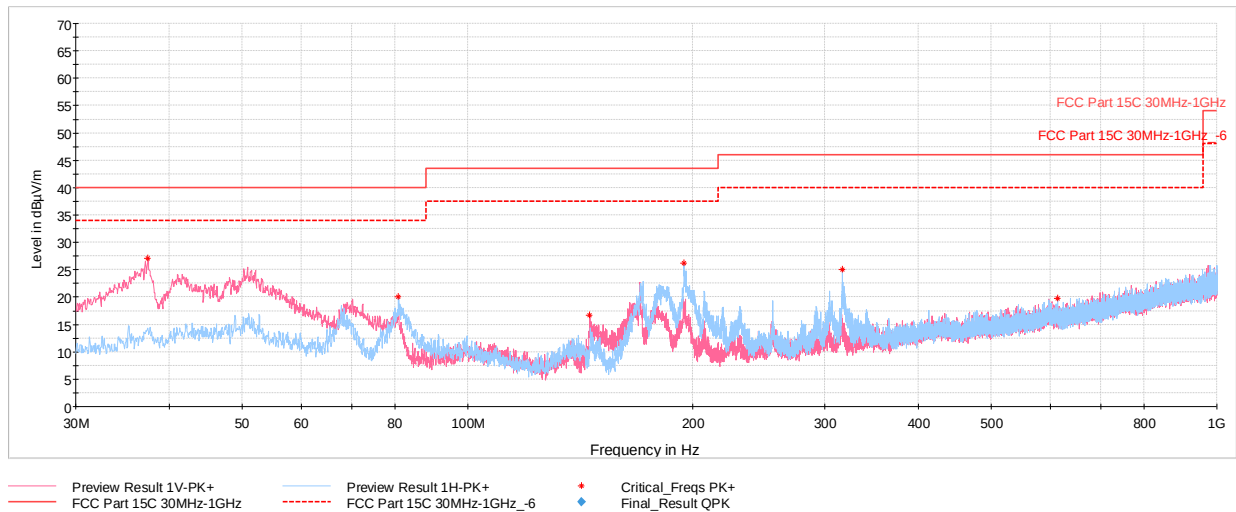
Plot 7-1799. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU26) with AC/DC Adapter

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]
50.66	Max-Peak	V	100	326	-67.59	-13.11	26.30	40.00	-13.70
81.26	Max-Peak	H	200	118	-64.27	-20.97	21.76	40.00	-18.24
143.59	Max-Peak	H	200	194	-67.80	-20.59	18.61	43.52	-24.91
195.92	Max-Peak	H	100	198	-64.38	-16.55	26.07	43.52	-17.45
318.09	Max-Peak	H	100	261	-67.95	-13.89	25.16	46.02	-20.86
710.89	Max-Peak	V	200	292	-78.90	-6.25	21.85	46.02	-24.17

Table 7-281. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU26) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 7-1800. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU242) 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]
37.47	Max-Peak	V	100	35	-64.74	-15.12	27.14	40.00	-12.86
80.88	Max-Peak	H	200	125	-65.80	-21.07	20.13	40.00	-19.87
145.58	Max-Peak	V	100	0	-69.71	-20.56	16.73	43.52	-26.79
194.46	Max-Peak	H	200	203	-63.92	-16.82	26.26	43.52	-17.26
316.39	Max-Peak	H	100	138	-68.06	-13.93	25.01	46.02	-21.01
613.02	Max-Peak	H	300	213	-79.73	-7.56	19.71	46.02	-26.31

Table 7-282. Radiated Spurious Emissions below 1GHz SDM Primary (802.11ax – Ch.1 – RU242) with AC/DC Adapter

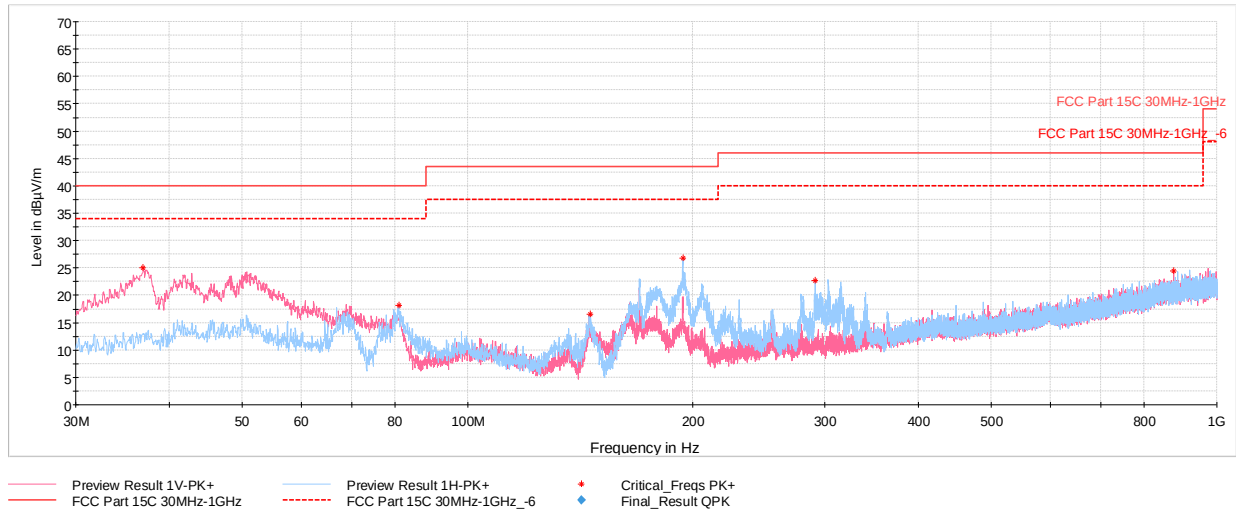
FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2311270069-14-R2.BCG	Test Dates: 11/29/23-04/05/2024	EUT Type: Tablet Device	Page 577 of 596

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7.8.2 SDM Diversity Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



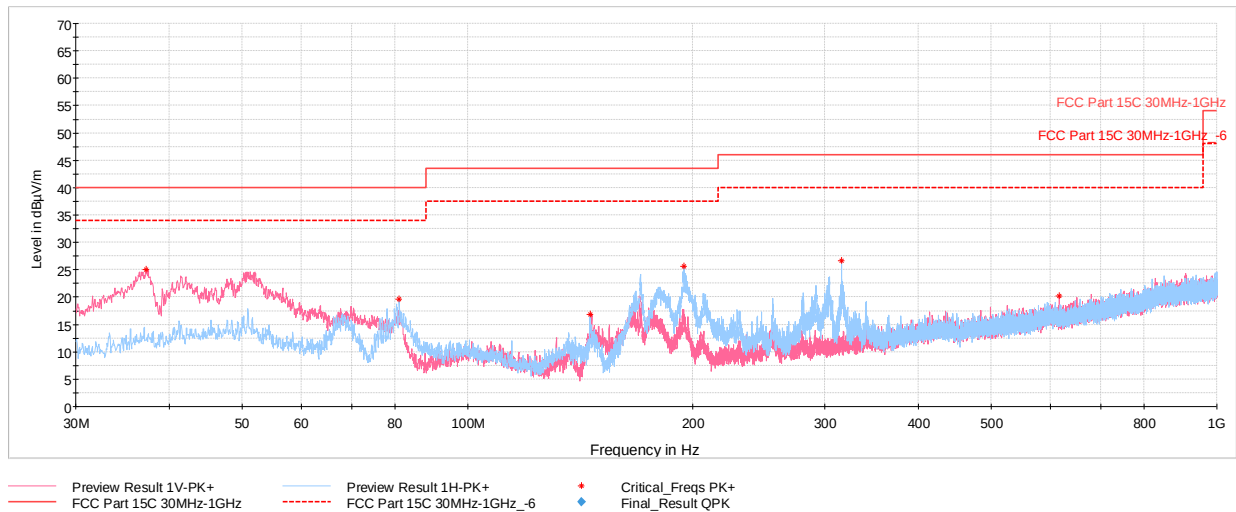
Plot 7-1801. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU26) with AC/DC Adapter

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]
36.89	Max-Peak	V	100	270	-66.64	-15.26	25.10	40.00	-14.90
80.93	Max-Peak	H	200	130	-67.78	-21.06	18.16	40.00	-21.84
145.92	Max-Peak	H	200	194	-69.91	-20.54	16.55	43.52	-26.97
193.78	Max-Peak	H	100	210	-63.18	-16.99	26.83	43.52	-16.69
290.88	Max-Peak	H	100	285	-69.44	-14.79	22.77	46.02	-23.25
875.65	Max-Peak	V	100	0	-79.23	-3.27	24.50	46.02	-21.52

Table 7-283. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU26) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1802. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU242) 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]
37.23	Max-Peak	V	100	52	-66.77	-15.18	25.05	40.00	-14.95
81.02	Max-Peak	H	200	141	-66.36	-21.04	19.60	40.00	-20.40
145.67	Max-Peak	H	200	195	-69.57	-20.55	16.88	43.52	-26.64
194.32	Max-Peak	H	100	224	-64.55	-16.86	25.59	43.52	-17.93
315.86	Max-Peak	H	100	288	-66.41	-13.94	26.65	46.02	-19.37
616.56	Max-Peak	V	100	71	-79.05	-7.72	20.23	46.02	-25.79

Table 7-284. Radiated Spurious Emissions below 1GHz SDM Diversity (802.11ax – Ch.1 – RU242) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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7.9 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 7-285. 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

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Test Setup

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

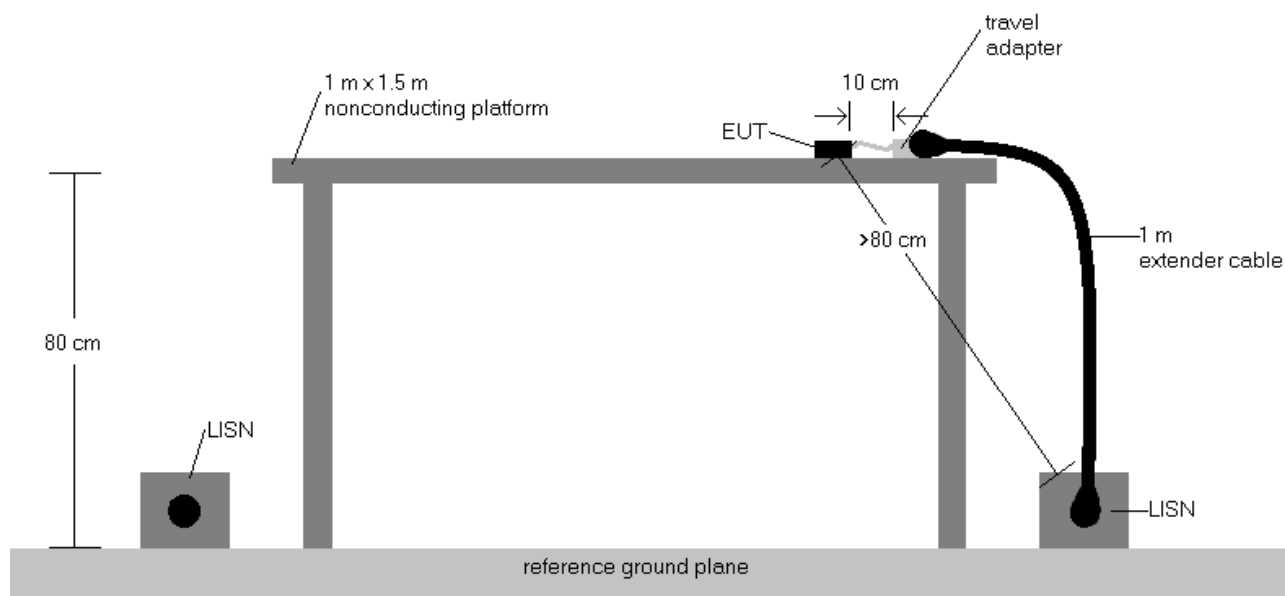


Figure 7-8. Test Instrument & Measurement Setup

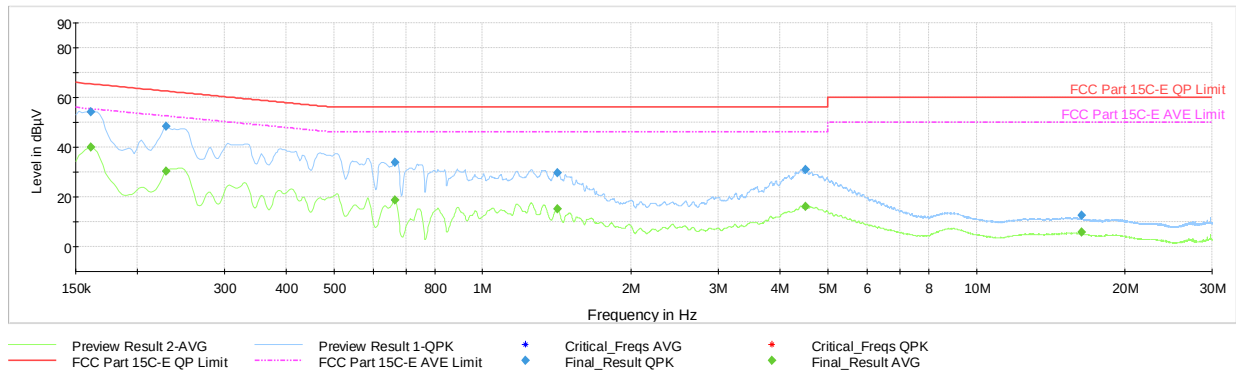
Test Notes

- 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.
- Both configurations below were investigated, and the worst case has been reported.
 - EUT powered by AC/DC adaptor via USB-C cable with wire charger
 - EUT powered by host PC via USB-C cable with wire charger
- The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
- $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
- $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
- $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
- Traces shown in plots are made using quasi-peak and average detectors.
- Deviations to the Specifications: None.
- The unit was tested with all possible modes and only the highest emission is reported.

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7.9.1 SDM Primary Line-Conducted Emissions Measurements



Plot 7-1803. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

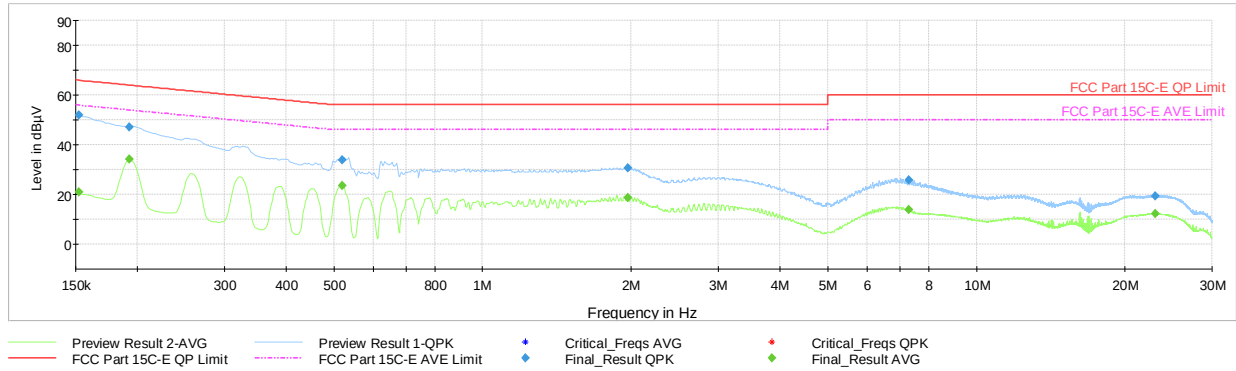
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.161	FINAL	---	39.88	55.40	-15.52	L1	GND
0.161	FINAL	54.29	---	65.40	-11.11	L1	GND
0.229	FINAL	---	30.36	52.50	-22.13	L1	GND
0.229	FINAL	48.24	---	62.50	-14.26	L1	GND
0.665	FINAL	---	18.62	46.00	-27.38	L1	GND
0.665	FINAL	33.84	---	56.00	-22.16	L1	GND
1.417	FINAL	29.59	---	56.00	-26.41	L1	GND
1.417	FINAL	---	15.07	46.00	-30.93	L1	GND
4.513	FINAL	30.82	---	56.00	-25.18	L1	GND
4.513	FINAL	---	16.20	46.00	-29.80	L1	GND
16.346	FINAL	---	5.81	50.00	-44.19	L1	GND
16.346	FINAL	12.61	---	60.00	-47.39	L1	GND

Table 7-286. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

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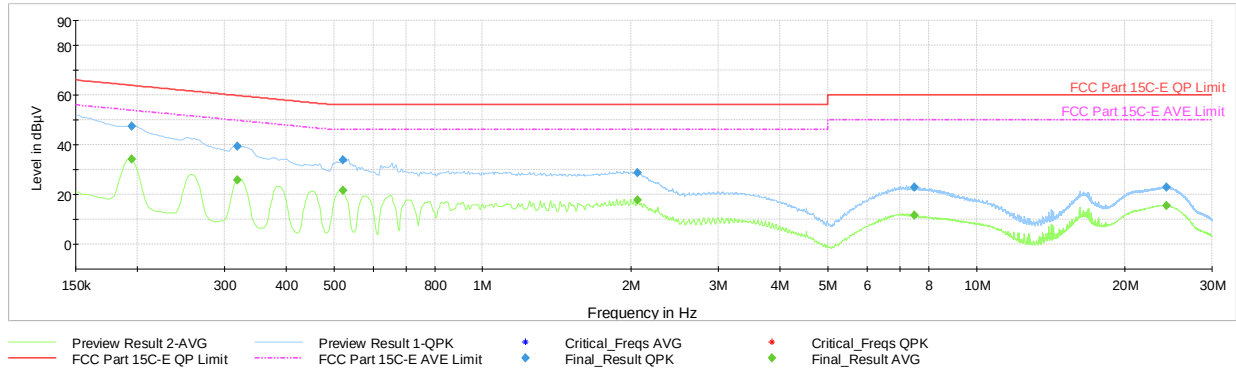
Plot 7-1804. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.152	FINAL	---	20.95	55.88	-34.93	N	GND
0.152	FINAL	52.08	---	65.88	-13.80	N	GND
0.193	FINAL	---	34.07	53.92	-19.85	N	GND
0.193	FINAL	47.20	---	63.92	-16.72	N	GND
0.519	FINAL	---	23.41	46.00	-22.59	N	GND
0.519	FINAL	33.76	---	56.00	-22.24	N	GND
1.968	FINAL	30.71	---	56.00	-25.29	N	GND
1.968	FINAL	---	18.83	46.00	-27.17	N	GND
7.301	FINAL	25.69	---	60.00	-34.31	N	GND
7.301	FINAL	---	13.96	50.00	-36.04	N	GND
22.999	FINAL	---	12.17	50.00	-37.83	N	GND
22.999	FINAL	19.46	---	60.00	-40.54	N	GND

Table 7-287. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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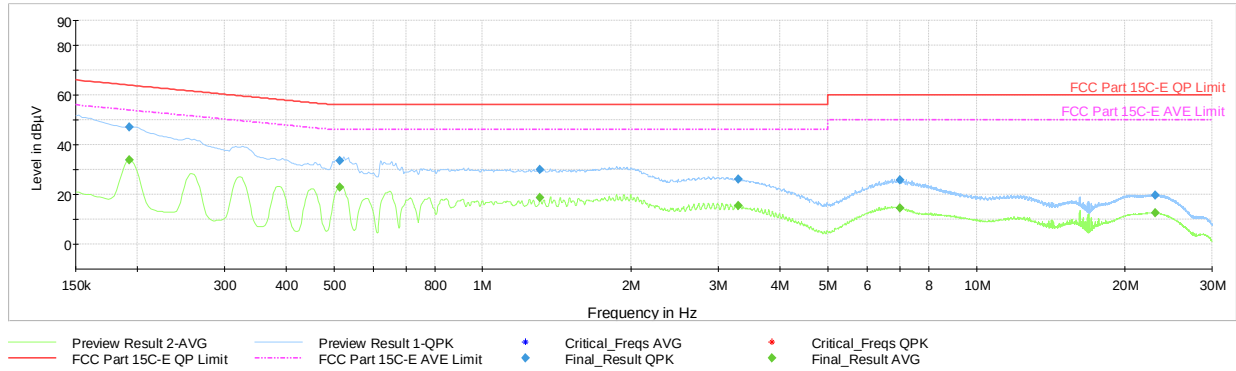
Plot 7-1805. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.195	FINAL	---	34.12	53.82	-19.70	L1	GND
0.195	FINAL	47.55	---	63.82	-16.27	L1	GND
0.319	FINAL	---	25.92	49.74	-23.82	L1	GND
0.319	FINAL	39.27	---	59.74	-20.47	L1	GND
0.521	FINAL	---	21.72	46.00	-24.28	L1	GND
0.521	FINAL	33.74	---	56.00	-22.26	L1	GND
2.058	FINAL	28.60	---	56.00	-27.40	L1	GND
2.058	FINAL	---	17.69	46.00	-28.31	L1	GND
7.483	FINAL	22.83	---	60.00	-37.17	L1	GND
7.483	FINAL	---	11.71	50.00	-38.29	L1	GND
24.212	FINAL	---	15.48	50.00	-34.52	L1	GND
24.212	FINAL	22.77	---	60.00	-37.23	L1	GND

Table 7-288. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1806. AC Line Conducted Plot with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter

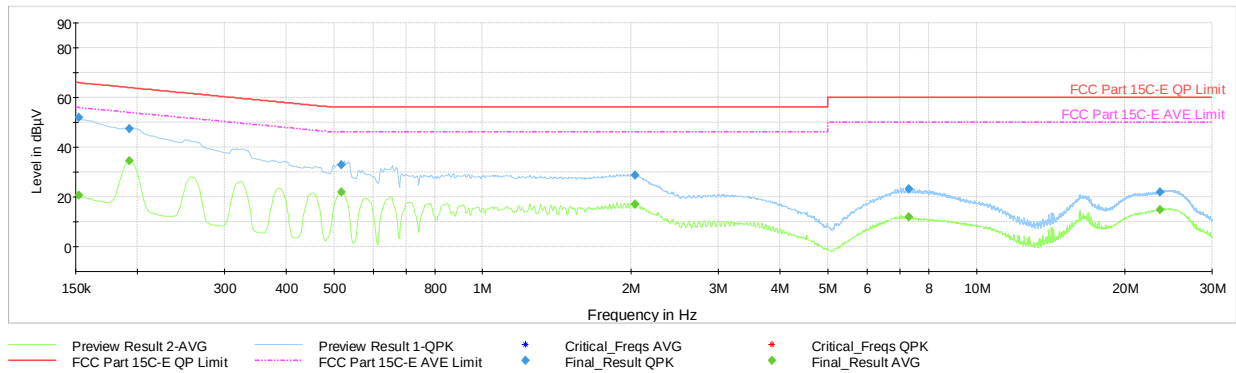
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.193	FINAL	---	33.99	53.92	-19.92	N	GND
0.193	FINAL	46.97	---	63.92	-16.95	N	GND
0.515	FINAL	---	23.06	46.00	-22.94	N	GND
0.515	FINAL	33.64	---	56.00	-22.36	N	GND
1.307	FINAL	---	18.58	46.00	-27.42	N	GND
1.307	FINAL	30.01	---	56.00	-25.99	N	GND
3.300	FINAL	26.07	---	56.00	-29.93	N	GND
3.300	FINAL	---	15.44	46.00	-30.56	N	GND
7.008	FINAL	25.85	---	60.00	-34.15	N	GND
7.008	FINAL	---	14.67	50.00	-35.33	N	GND
23.015	FINAL	---	12.47	50.00	-37.53	N	GND
23.015	FINAL	19.54	---	60.00	-40.46	N	GND

Table 7-289. AC Line Conducted Data with SDM Primary 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.9.2 SDM Diversity Line-Conducted Emissions Measurements



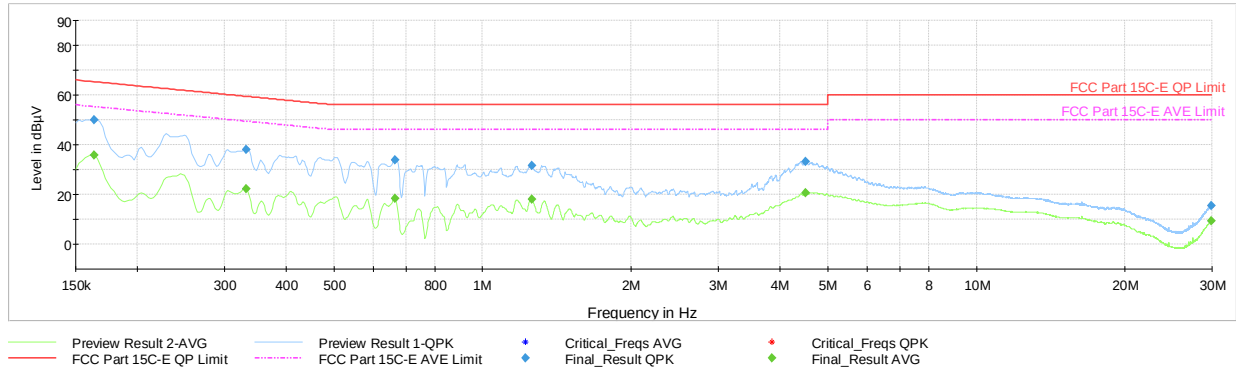
Plot 7-1807. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.152	FINAL	---	20.73	55.88	-35.14	L1	GND
0.152	FINAL	51.9	---	65.88	-14.03	L1	GND
0.193	FINAL	---	34.59	53.92	-19.32	L1	GND
0.193	FINAL	47.5	---	63.92	-16.45	L1	GND
0.517	FINAL	---	21.86	46.00	-24.14	L1	GND
0.517	FINAL	32.8	---	56.00	-23.17	L1	GND
2.033	FINAL	28.6	---	56.00	-27.37	L1	GND
2.033	FINAL	---	17.06	46.00	-28.94	L1	GND
7.303	FINAL	23.2	---	60.00	-36.84	L1	GND
7.303	FINAL	---	11.95	50.00	-38.06	L1	GND
23.501	FINAL	---	14.77	50.00	-35.23	L1	GND
23.501	FINAL	22.0	---	60.00	-38.03	L1	GND

Table 7-290. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (L1) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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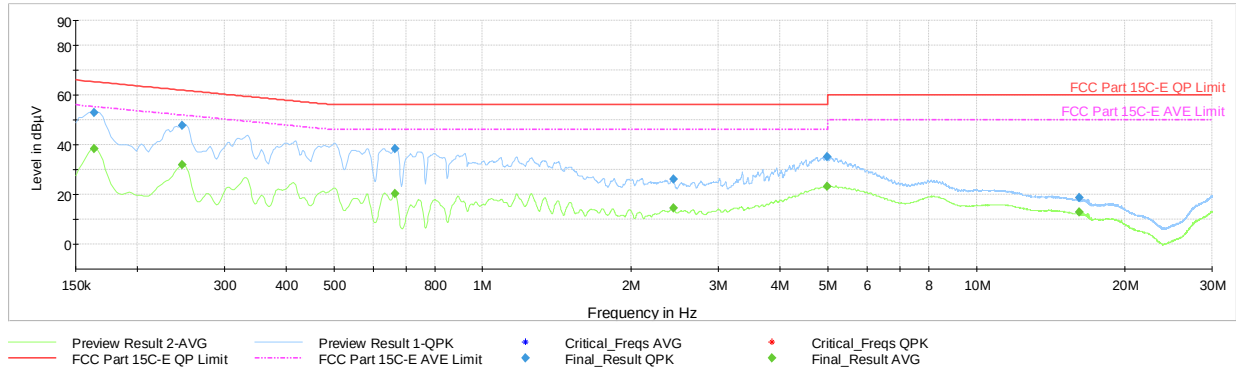
Plot 7-1808. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	---	35.66	55.28	-19.62	N	GND
0.164	FINAL	50.0	---	65.28	-15.33	N	GND
0.332	FINAL	---	22.32	49.40	-27.08	N	GND
0.332	FINAL	38.1	---	59.40	-21.25	N	GND
0.665	FINAL	---	18.31	46.00	-27.69	N	GND
0.665	FINAL	33.9	---	56.00	-22.10	N	GND
1.257	FINAL	31.7	---	56.00	-24.34	N	GND
1.257	FINAL	---	17.96	46.00	-28.04	N	GND
4.515	FINAL	33.4	---	56.00	-22.65	N	GND
4.515	FINAL	---	20.60	46.00	-25.40	N	GND
29.843	FINAL	---	9.35	50.00	-40.65	N	GND
29.843	FINAL	15.4	---	60.00	-44.60	N	GND

Table 7-291. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU26 – Ch.1 (N) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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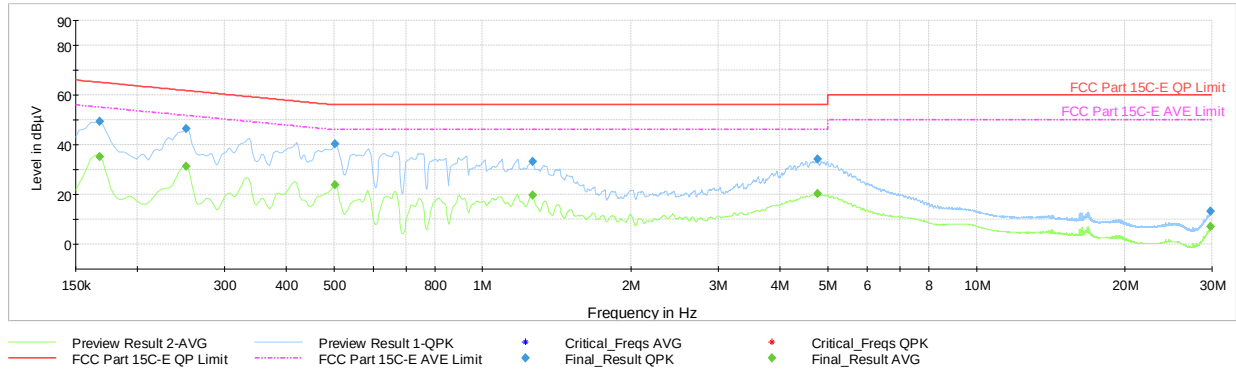
Plot 7-1809. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	---	38.37	55.28	-16.91	L1	GND
0.164	FINAL	52.9	---	65.28	-12.39	L1	GND
0.247	FINAL	---	31.93	51.87	-19.94	L1	GND
0.247	FINAL	47.7	---	61.87	-14.18	L1	GND
0.665	FINAL	---	20.45	46.00	-25.55	L1	GND
0.665	FINAL	38.6	---	56.00	-17.45	L1	GND
2.434	FINAL	26.0	---	56.00	-29.97	L1	GND
2.434	FINAL	---	14.36	46.00	-31.64	L1	GND
4.981	FINAL	35.0	---	56.00	-20.97	L1	GND
4.981	FINAL	---	23.13	46.00	-22.87	L1	GND
16.168	FINAL	---	12.84	50.00	-37.16	L1	GND
16.168	FINAL	18.6	---	60.00	-41.41	L1	GND

Table 7-292. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (L1) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-1810. AC Line Conducted Plot with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	---	35.26	55.06	-19.80	N	GND
0.168	FINAL	49.2	---	65.06	-15.85	N	GND
0.251	FINAL	---	31.31	51.72	-20.41	N	GND
0.251	FINAL	46.5	---	61.72	-15.27	N	GND
0.503	FINAL	---	23.96	46.00	-22.04	N	GND
0.503	FINAL	40.2	---	56.00	-15.80	N	GND
1.262	FINAL	33.3	---	56.00	-22.66	N	GND
1.262	FINAL	---	19.54	46.00	-26.46	N	GND
4.760	FINAL	34.1	---	56.00	-21.91	N	GND
4.760	FINAL	---	20.25	46.00	-25.75	N	GND
29.794	FINAL	---	7.05	50.00	-42.96	N	GND
29.794	FINAL	13.2	---	60.00	-46.76	N	GND

Table 7-293. AC Line Conducted Data with SDM Diversity 11ax UNII Band 5 – RU242 – Ch.1 (N) with AC/DC Adapter

FCC ID: BCGA2925 IC: 579C-A2925		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.10 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

§15.407; RSS-248

Test Overview and Limits

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test Procedure Used

KDB 987594 D02 v02r01 – Section L

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

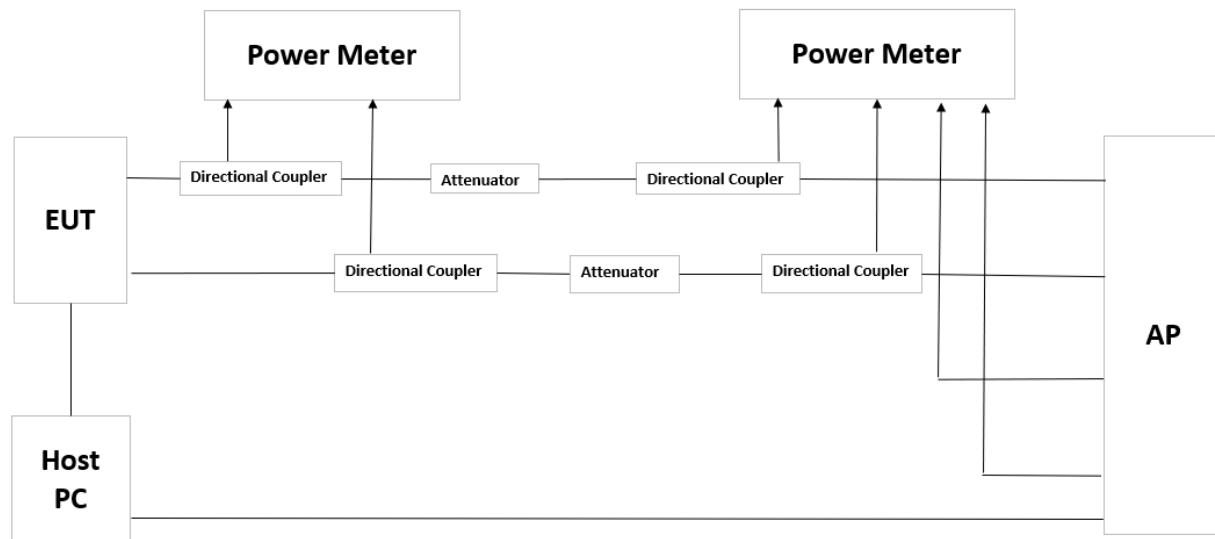


Figure 9: Test Instrument & Measurement Setup

Test Notes

1. Standard Power AP which was used in the test setup is not certified and it's a production version.
2. Standard Power AP specification is declared by Apple/manufacturere
3. AFC Limit was set to 36, 28 and 21 dBm EIRP.

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36 dBm EIRP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
5	5975	TxBF	20.32	19.78	19.86	19.71	25.94	6.02	31.72

Table 294. AP measured e.i.r.p

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)
		Antenna WF5b	Antenna WF8	Summed		
5	5975	13.88	6.07	14.55	1.7	16.25

Table 295. EUT measured e.i.r.p (MIMO)

FCC ID: BCGA2925 IC: 579C-A2925			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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28 dBm EIRP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
5	5975	CDD	19.59	19.58	19.75	19.32	25.58	0	25.62

Table 296. AP measured e.i.r.p

Channel	Frequency (MHz)	Power Measured (dBm)			Correlated Gain (dBi)	Measured e.i.r.p (dBm)
		Antenna WF5b	Antenna WF8	Summed		
5	5975	12.16	6.32	13.17	1.7	14.9

Table 297. EUT measured e.i.r.p (MIMO)

FCC ID: BCGA2925 IC: 579C-A2925			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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21 dBm EIRP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
5	5975	CDD	13.1	12.74	13.16	12.39	18.88	0	18.81

Table 298. AP measured e.i.r.p

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF5b	5	5975	10.80	1.7	12.50
WF8	5	5975	6.05	1.3	7.35

Table 299. EUT measured e.i.r.p (SISO)

FCC ID: BCGA2925 IC: 579C-A2925			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.11 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

§15.407; RSS-248

Test Overview and Limits

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations, and then control the power levels accordingly.

Test Procedure Used

KDB 987594 D02 v02r01 – Section K

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

ANSI C63.10-2013 – Section 14.2 Measure-and-Sum Technique

Test Settings

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

Test Setup

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

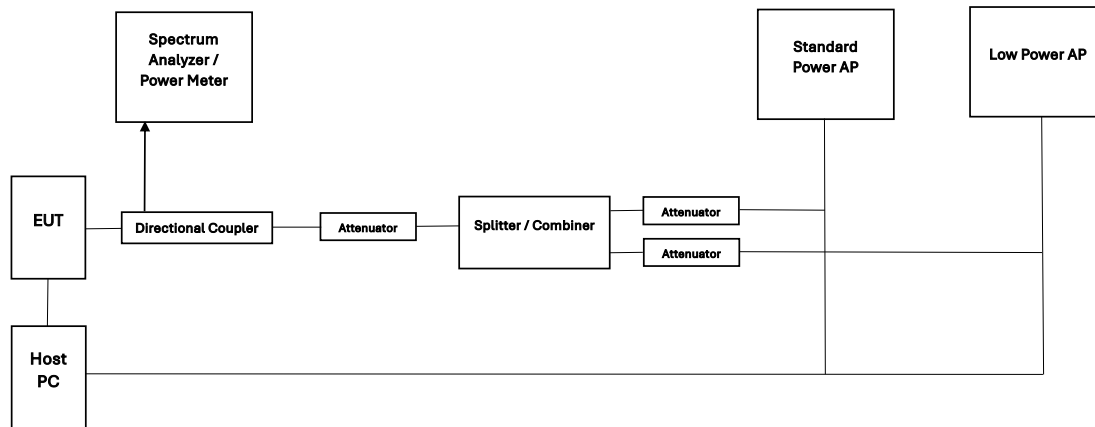


Figure 10: Test Instrument & Measurement Setup

Test Notes

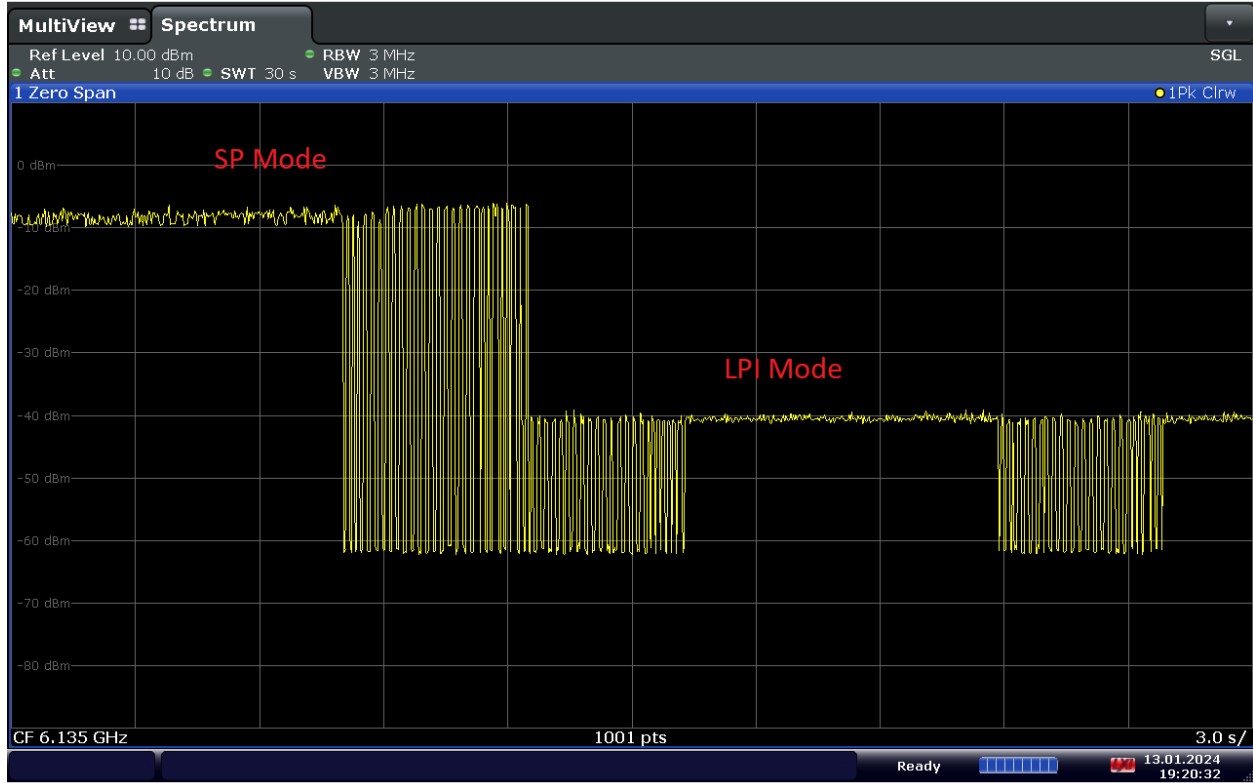
1. Standard Power AP which was used in the test setup is not certified and it's a production version.
2. Standard Power AP specification is declared by Apple/manufacturer.
3. Standard Power AP was set on highest power setting (36dBm EIRP)
4. Standard Power AP and Low Power Indoor AP were configured to transmit on same channel.
5. DUT was configured for SISO transmission so Antenna WF5b was measured.

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Figure 11: Client device observation from Standard Power AP to Low Power Indoor AP

Channel	Frequency (MHz)	Mode	Power Measured (dBm)					Correlated Gain (dBi)	Measured e.i.r.p (dBm)
			Ant0	Ant1	Ant2	Ant3	Summed		
37	6135	TxBF	20.21	20.05	19.97	19.91	26.06	6.02	32.08

Table 300: Measured e.i.r.p from Standard Power AP

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF5b	37	6135	13.27	1.7	14.97

Table 301: EUT measured e.i.r.p when established with Standard Power AP

Antenna	Channel	Frequency (MHz)	Power Measured (dBm)	Antenna Gain (dBi)	Measured e.i.r.p (dBm)
WF5b	37	6135	5.36	1.7	7.06

Table 302: EUT measured e.i.r.p when established with Low Power Indoor AP

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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** and **IC: 579C-A2925** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-248 of the Innovation, Science and Economic Development Canada Rules.

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