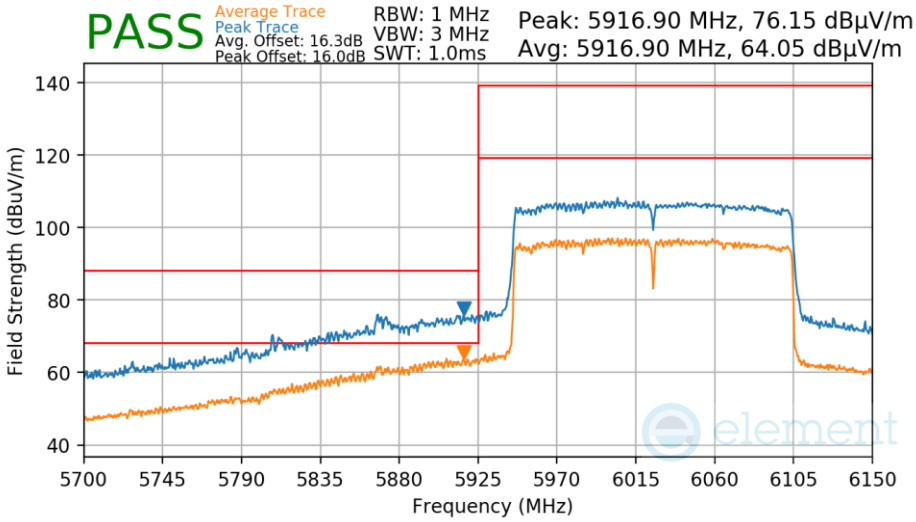
7.7.21 SDM Primary Radiated Band Edge Measurements (160MHz BW)

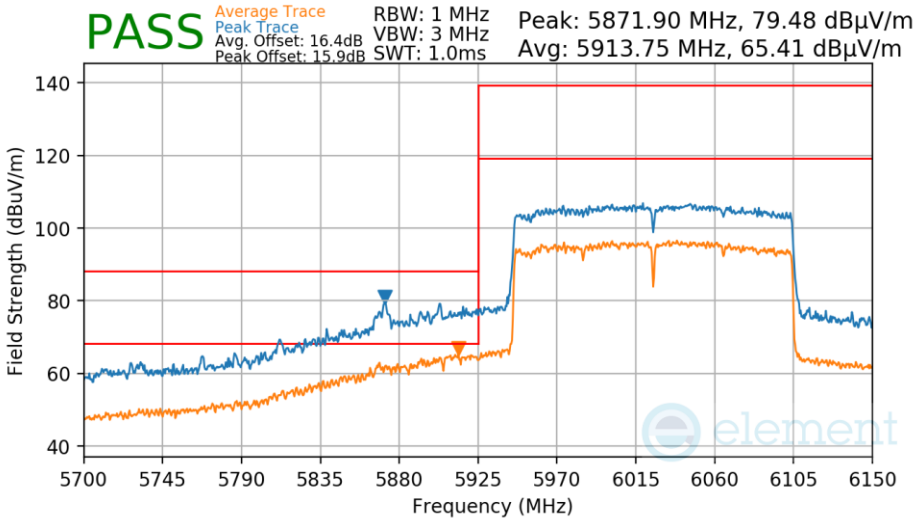
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



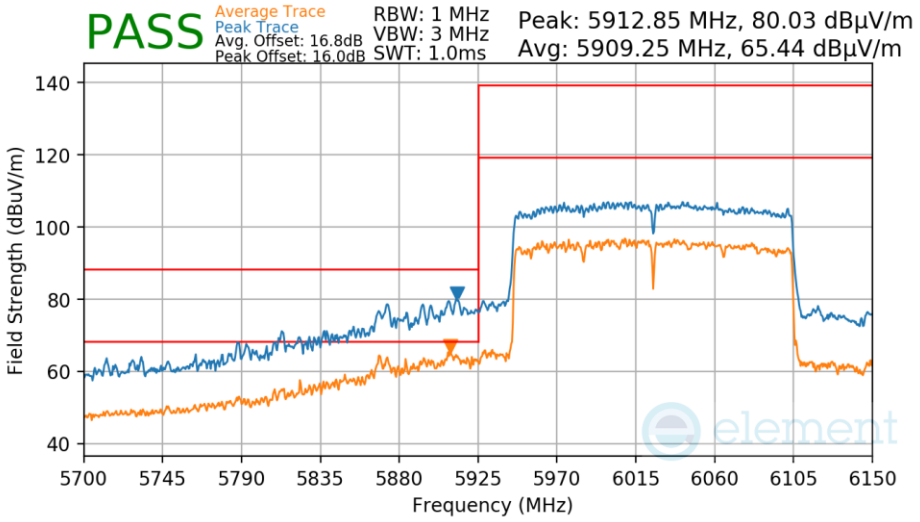
Plot 7-1547. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



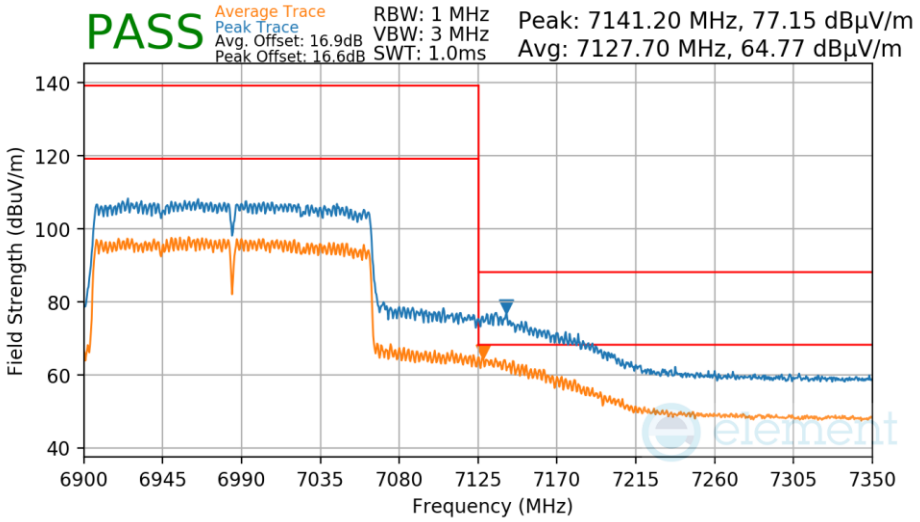
Plot 7-1548. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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



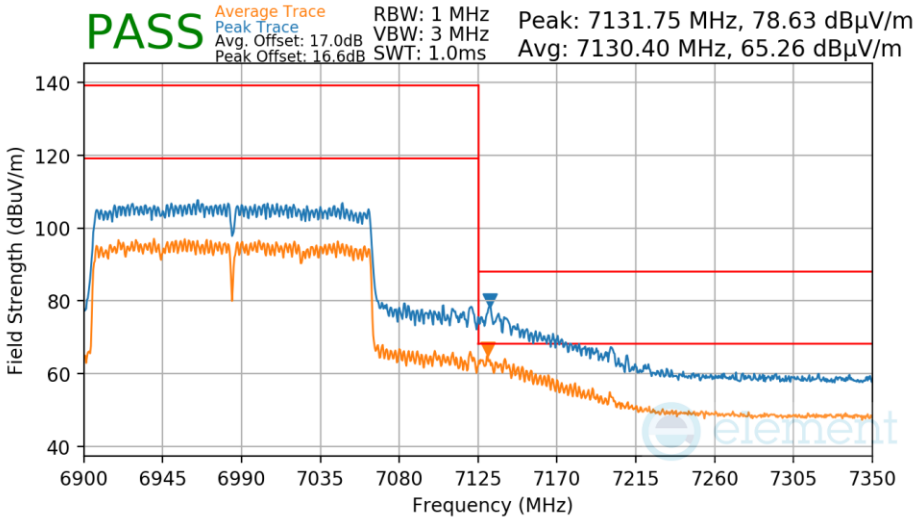
Plot 7-1549. SDM Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



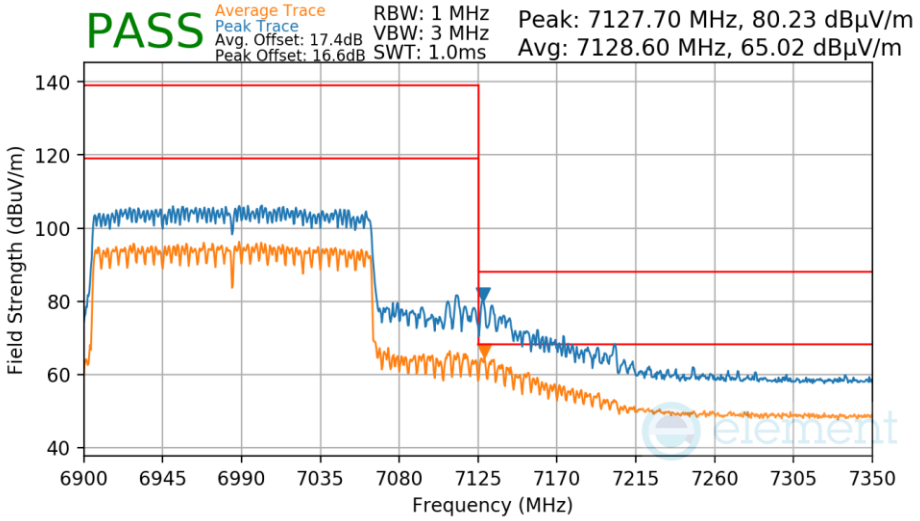
Plot 7-1550. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-1551. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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

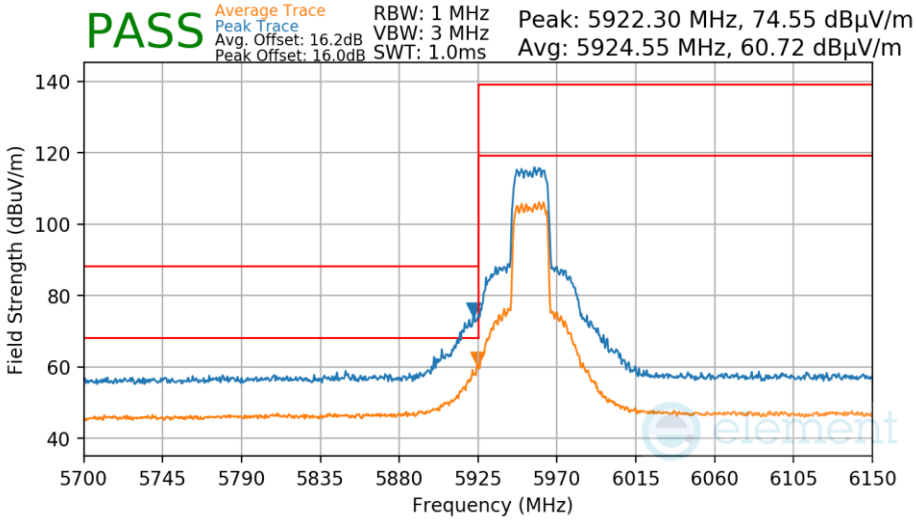


Plot 7-1552. SDM Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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

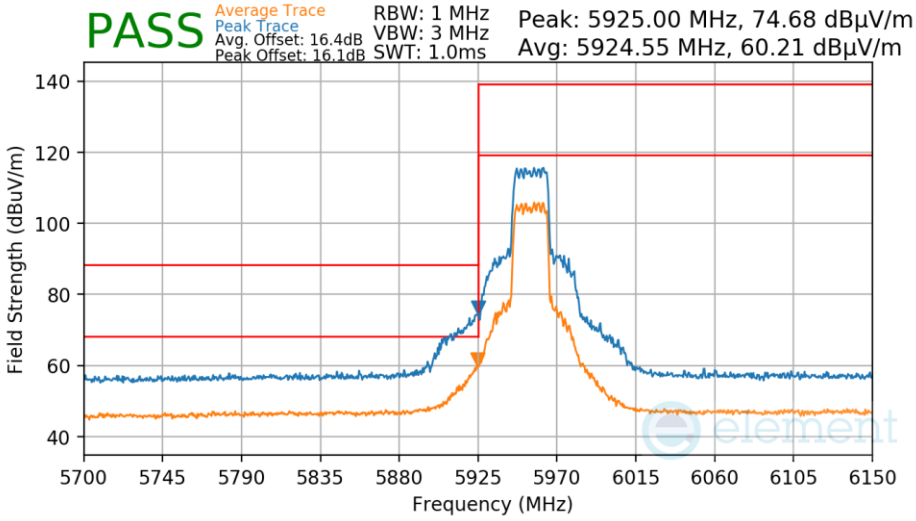
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1



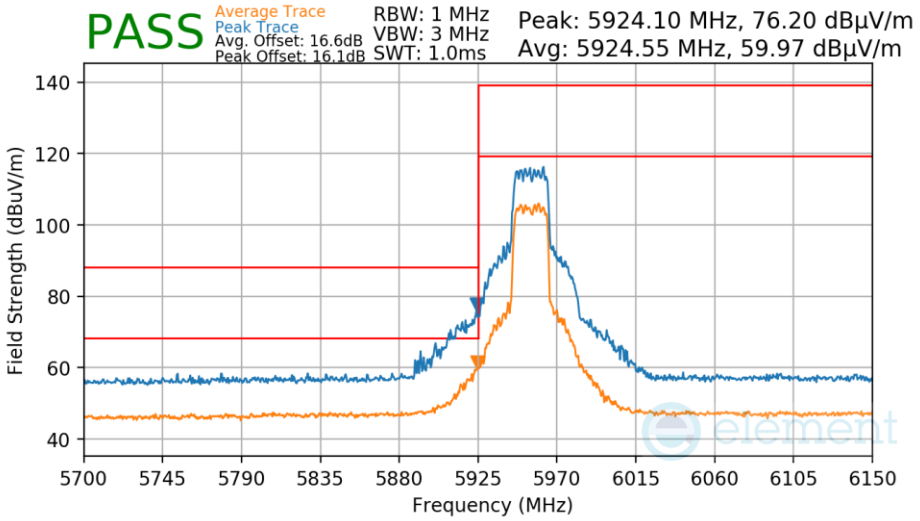
Plot 7-1553. SDM Diversity Radiated Lower Band Edge (Peak/Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5955MHz
Channel:	1



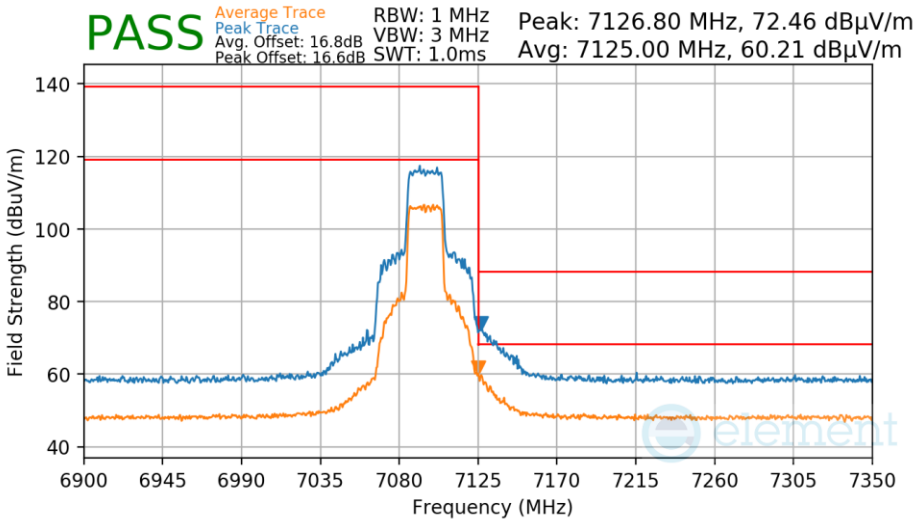
Plot 7-1554. SDM Diversity Radiated Lower Band Edge (Peak/Average – UNII Band 5)

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



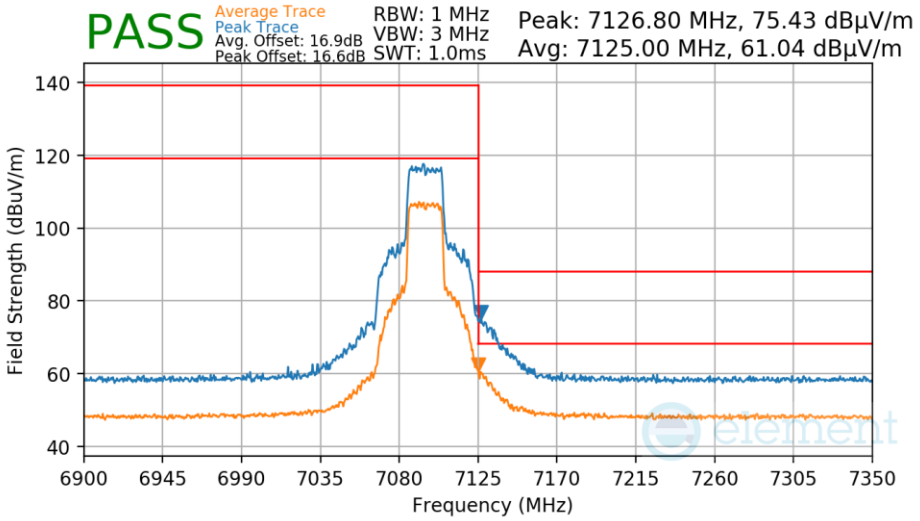
Plot 7-1555. SDM Diversity Radiated Lower Band Edge (Peak/Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7095MHz
Channel:	229



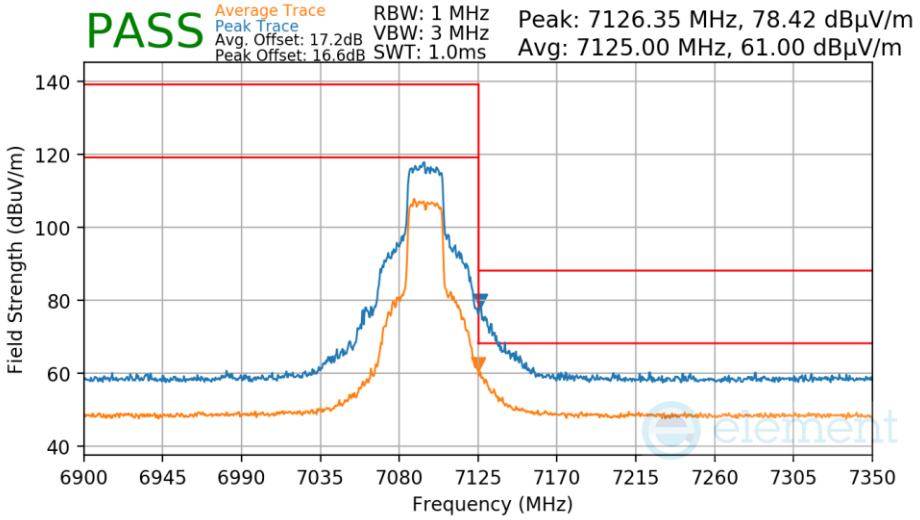
Plot 7-1556. SDM Diversity Radiated Upper Band Edge (Peak/Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	7095MHz
Channel:	229



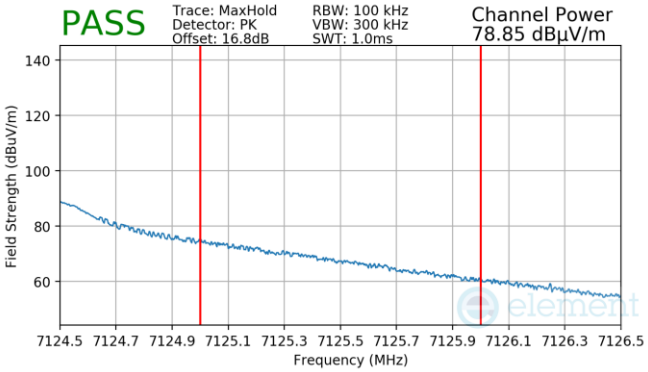
Plot 7-1557. SDM Diversity Radiated Upper Band Edge (Peak/Average – UNII Band 8)

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

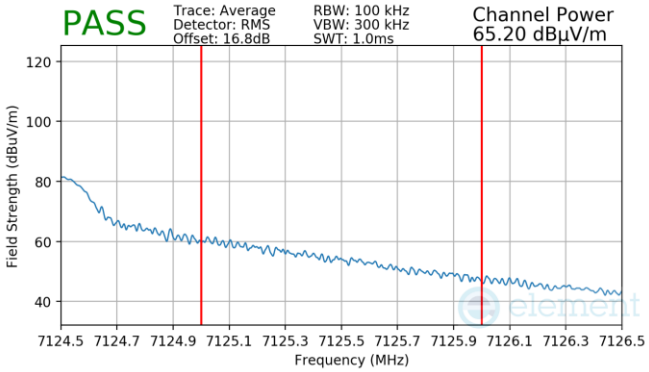


Plot 7-1558. SDM Diversity Radiated Upper Band Edge (Peak/Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233

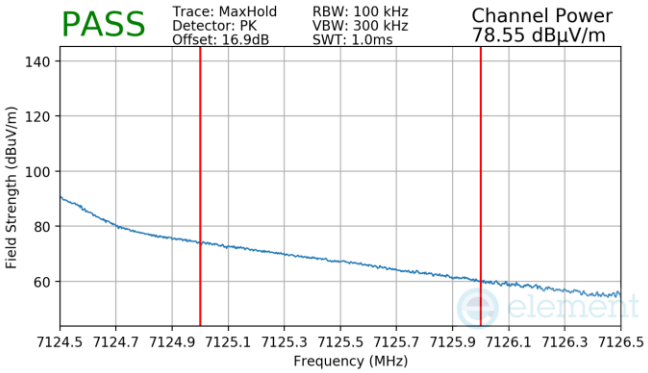


Plot 7-1559. SDM Diversity Radiated Upper Band Edge (Peak – UNII Band 8)

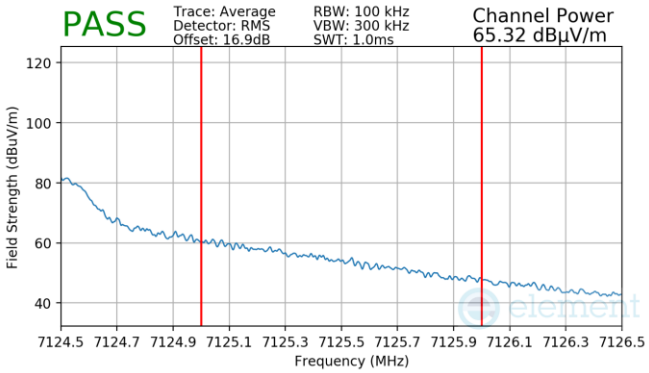


Plot 7-1560. SDM Diversity Radiated Upper Band Edge (Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	7115MHz
Channel:	233

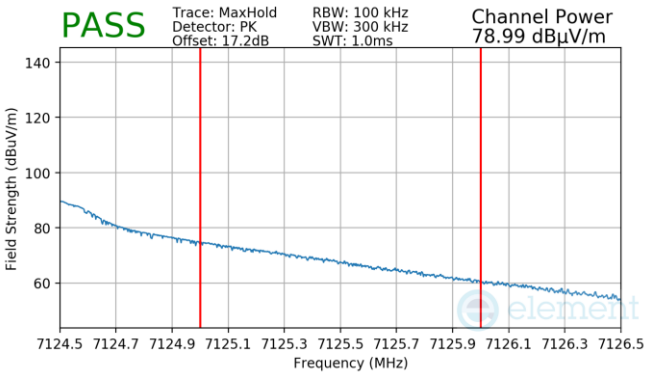


Plot 7-1561. SDM Diversity Radiated Upper Band Edge (Peak – UNII Band 8)

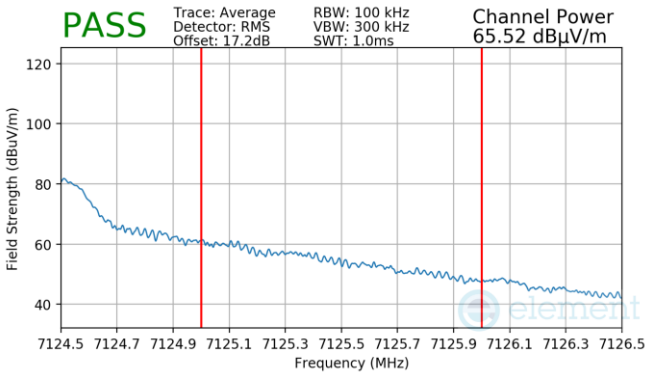


Plot 7-1562. SDM Diversity Radiated Upper Band Edge (Average – UNII Band 8)

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



Plot 7-1563. SDM Diversity Radiated Upper Band Edge (Peak – UNII Band 8)

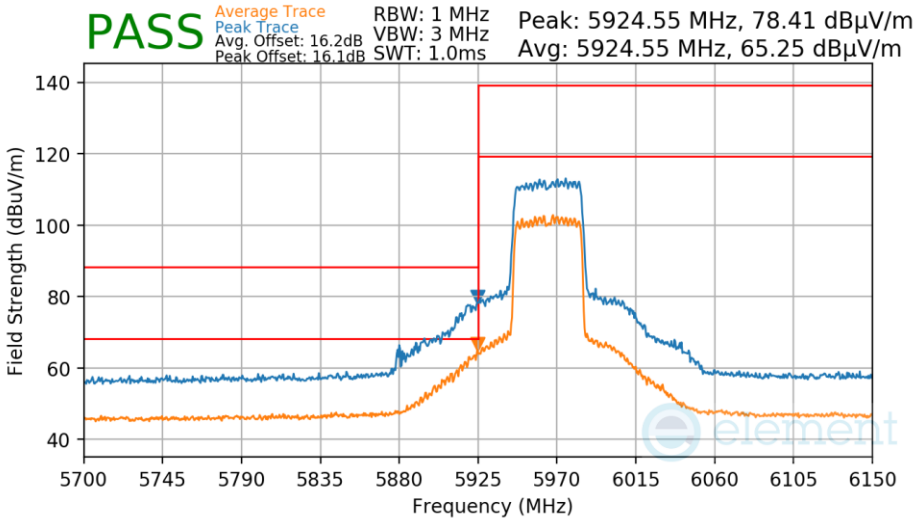


Plot 7-1564. SDM Diversity Radiated Upper Band Edge (Average – UNII Band 8)

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

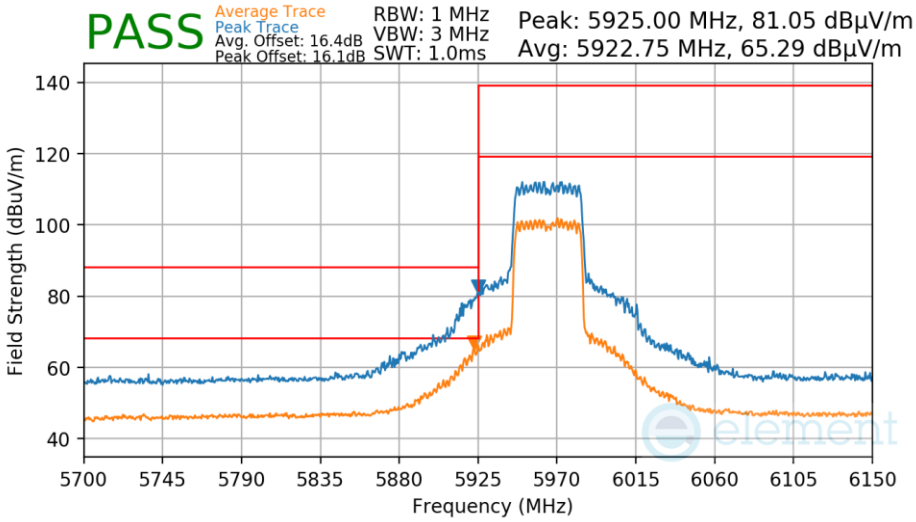
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3



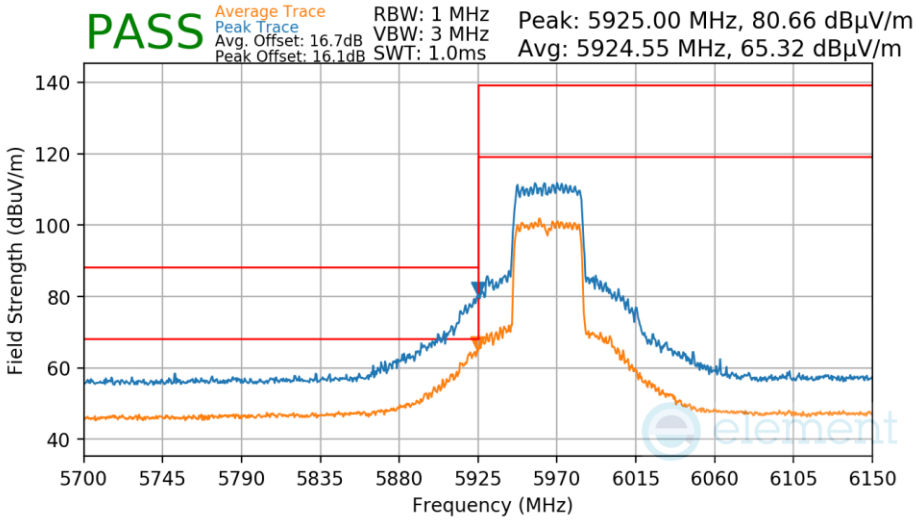
Plot 7-1565. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5965MHz
Channel:	3



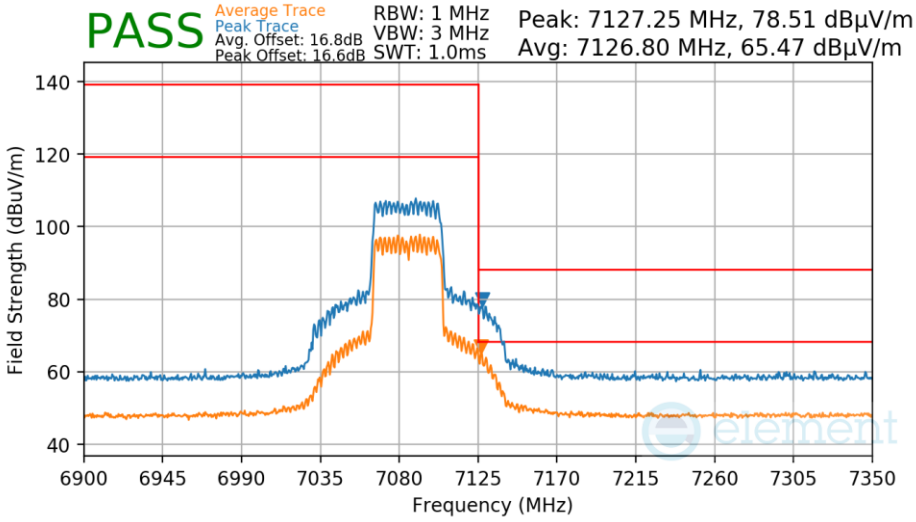
Plot 7-1566. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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



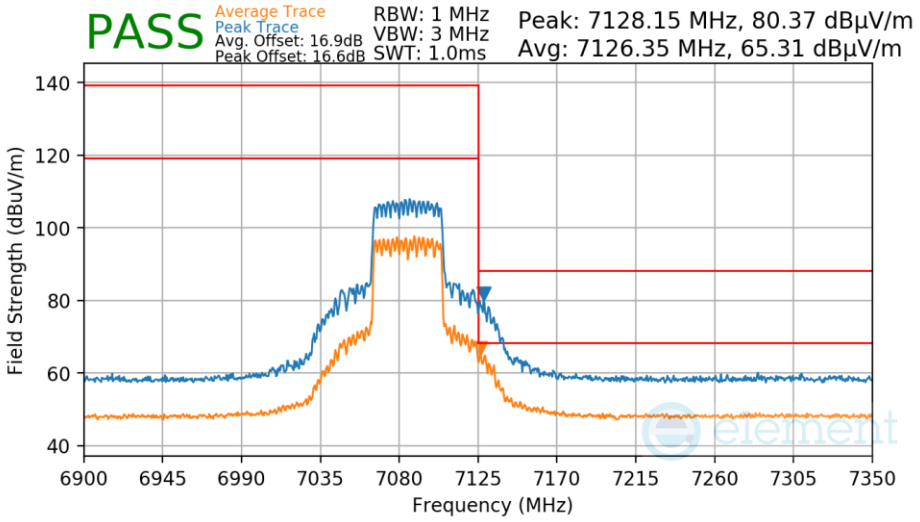
Plot 7-1567. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



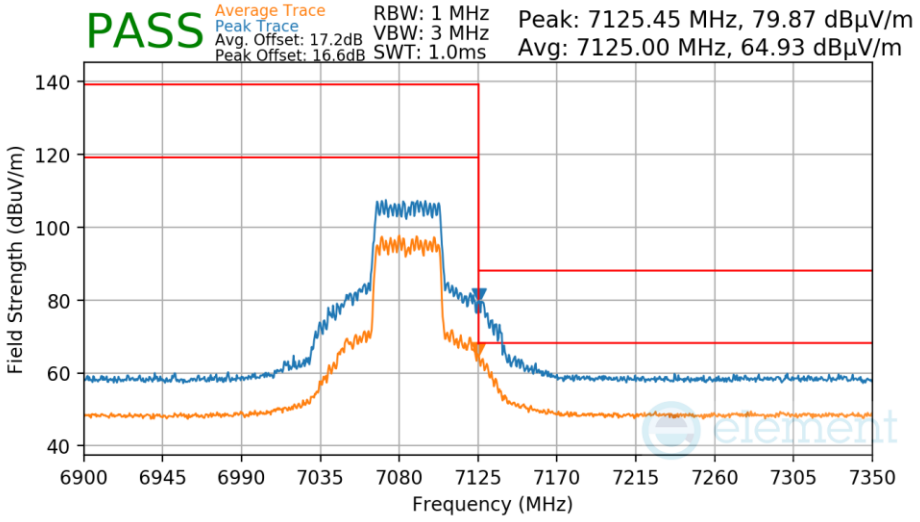
Plot 7-1568. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	7085MHz
Channel:	227



Plot 7-1569. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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

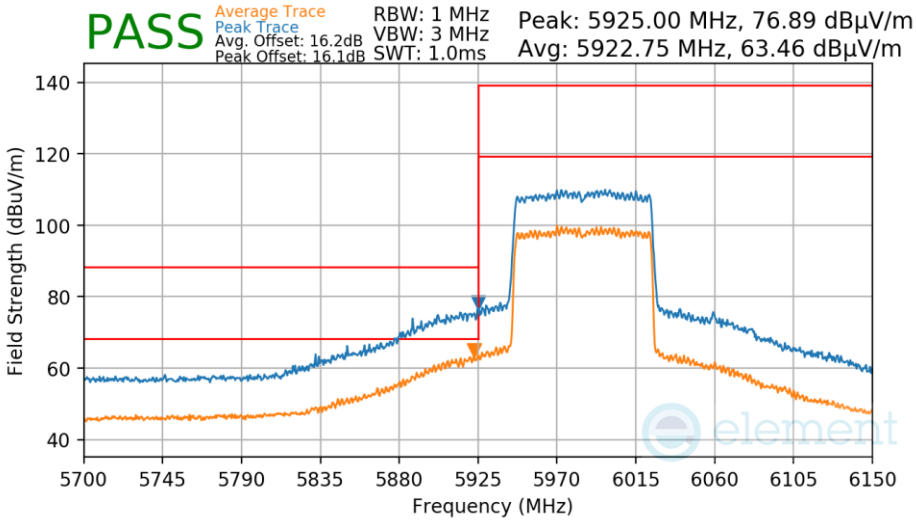


Plot 7-1570. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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

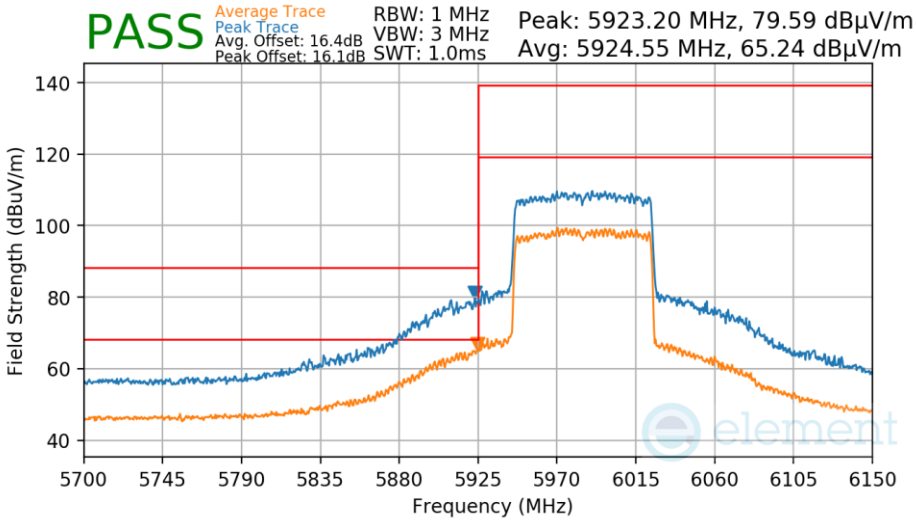
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



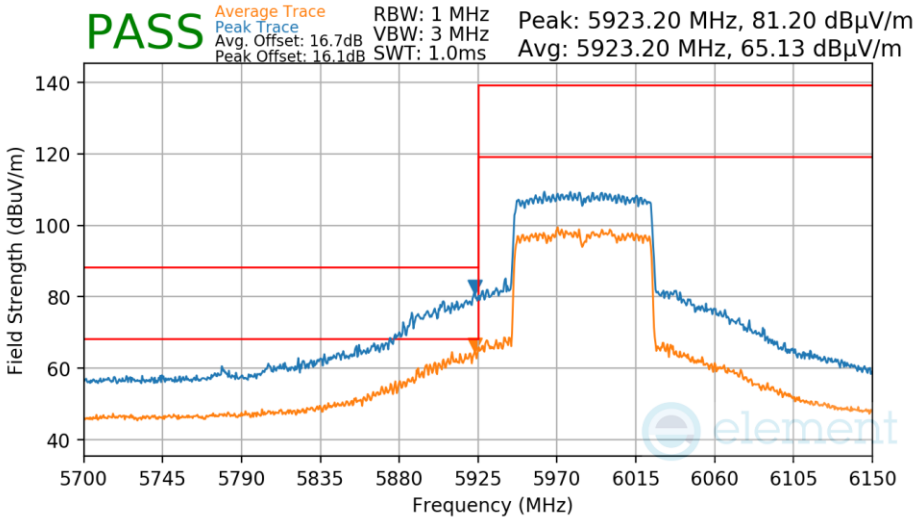
Plot 7-1571. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	5985MHz
Channel:	7



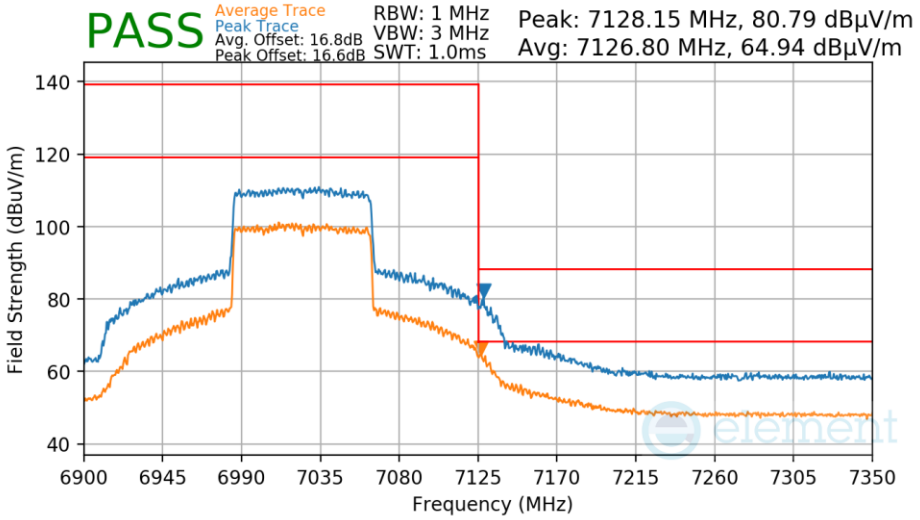
Plot 7-1572. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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



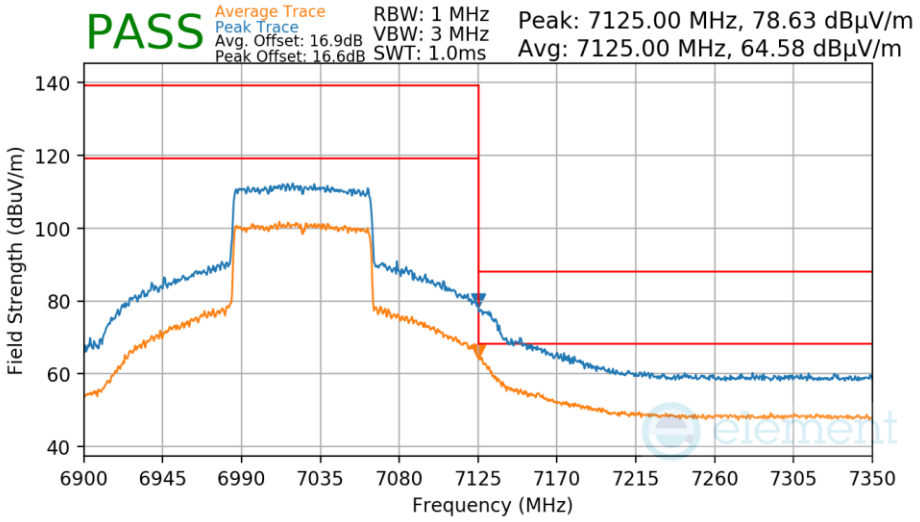
Plot 7-1573. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



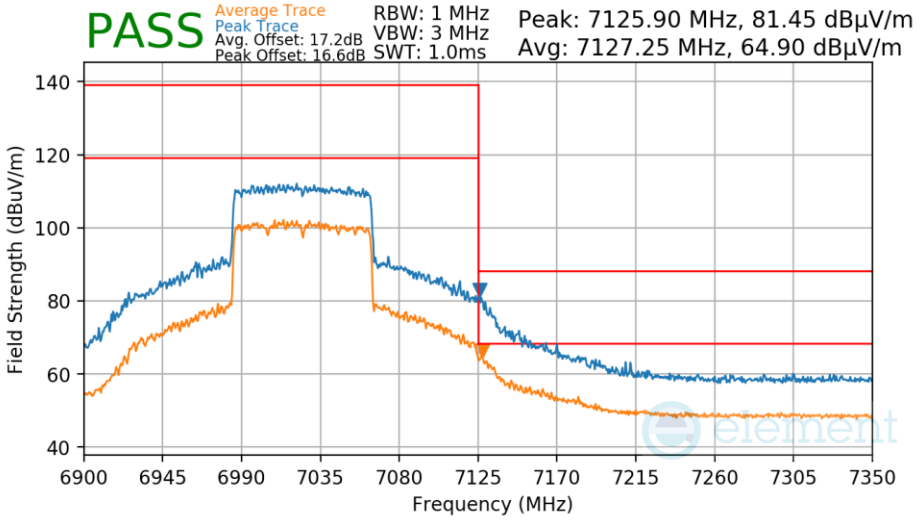
Plot 7-1574. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	7025MHz
Channel:	215



Plot 7-1575. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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

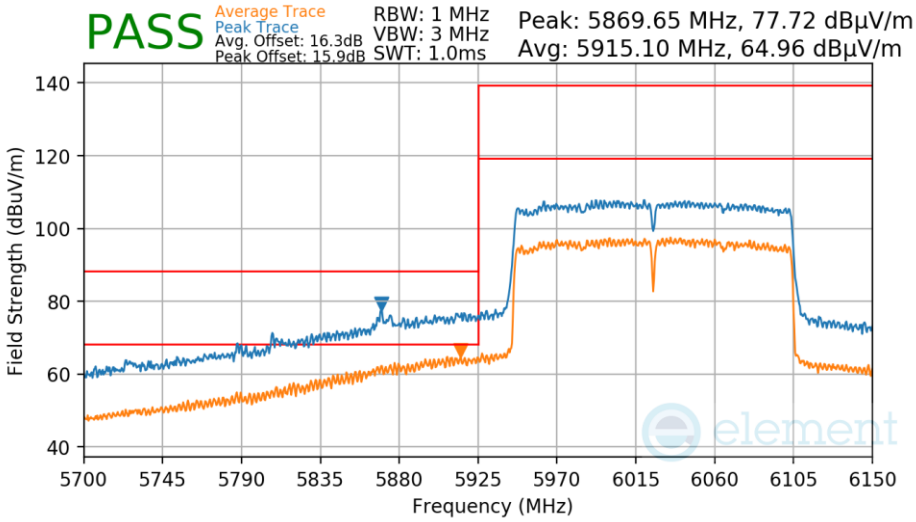


Plot 7-1576. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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

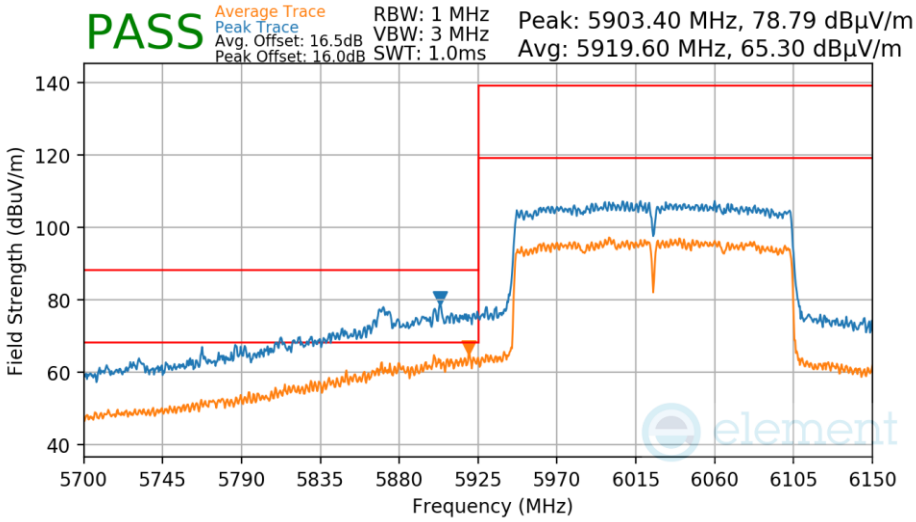
§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



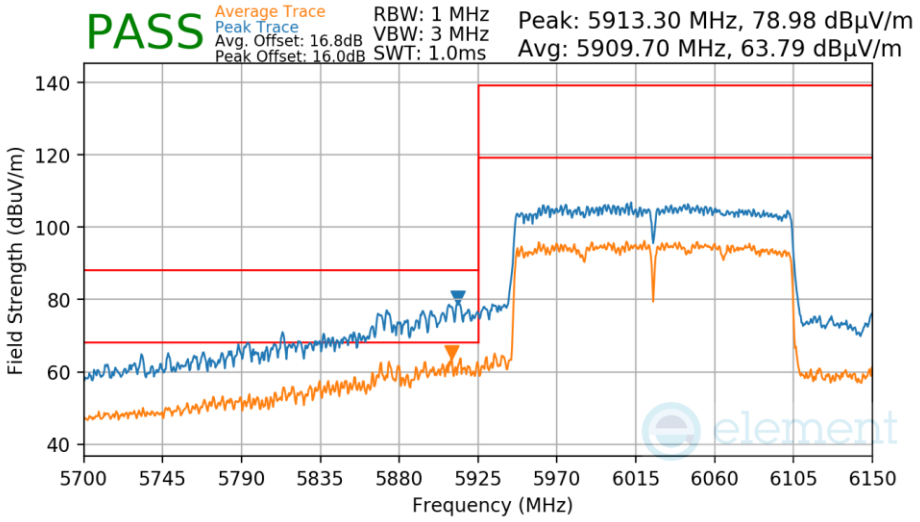
Plot 7-1577. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	6025MHz
Channel:	15



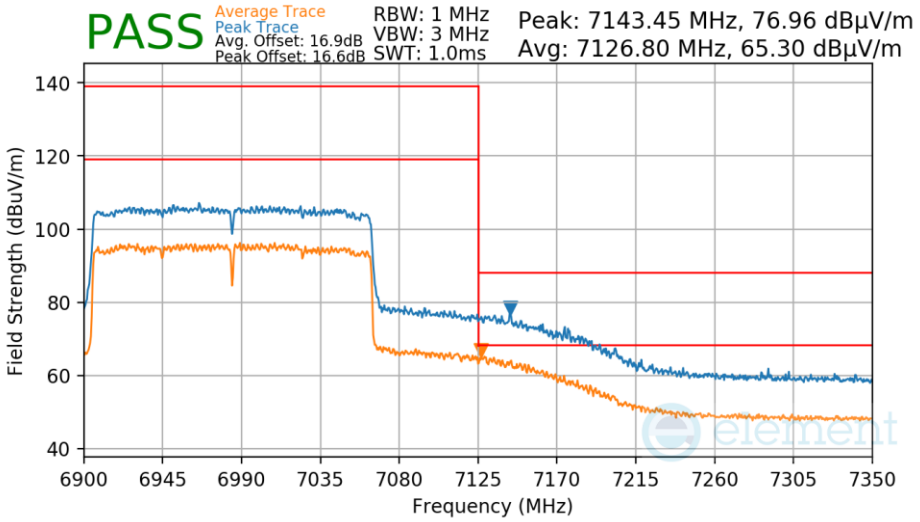
Plot 7-1578. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

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



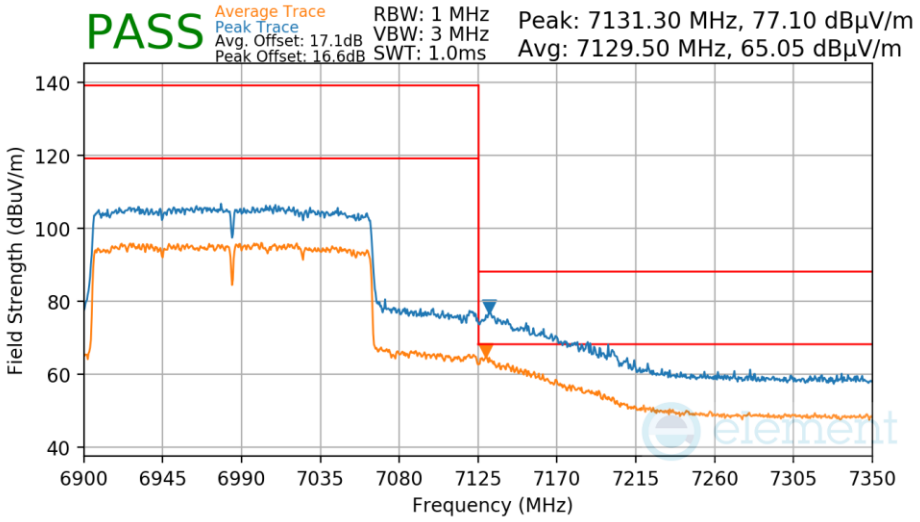
Plot 7-1579. SDM Diversity Radiated Lower Band Edge (Peak & Average – UNII Band 5)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



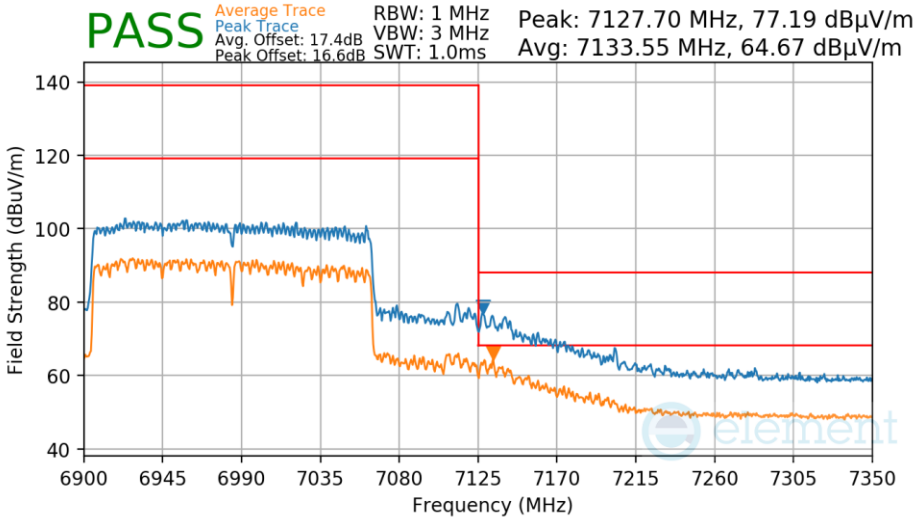
Plot 7-1580. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS4
Distance of Measurements:	3 Meters
Operating Frequency:	6985MHz
Channel:	207



Plot 7-1581. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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



Plot 7-1582. SDM Diversity Radiated Upper Band Edge (Peak & Average – UNII Band 8)

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 7-225 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 7-225. 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.

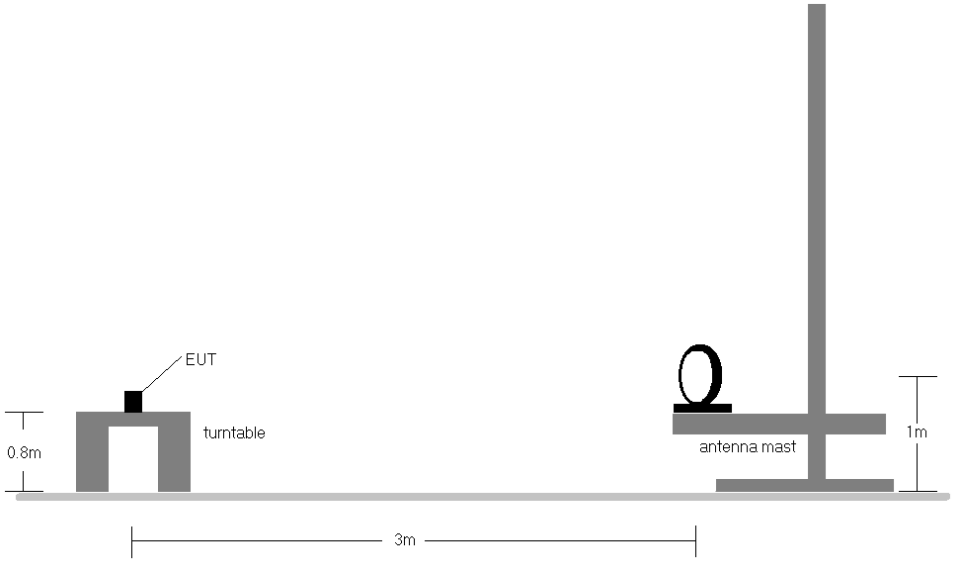


Figure 7-7. Radiated Test Setup < 30MHz

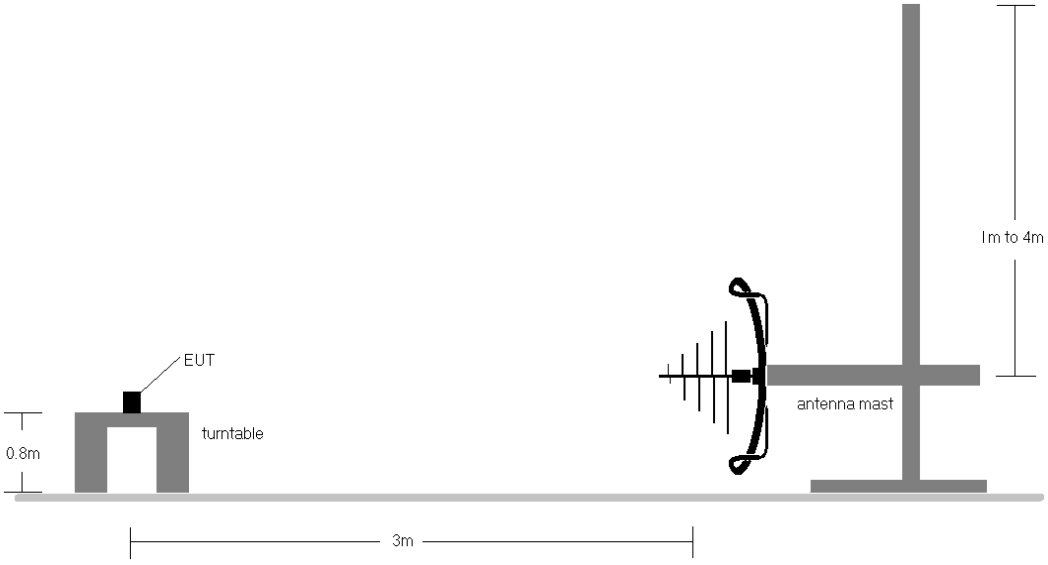


Figure 7-8. Radiated Test Setup < 1GHz

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 7-225.
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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.
10. 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
11. All antenna configurations were investigated and only the worst case is reported.
12. The unit was tested with all possible modes and only the highest emission is reported.

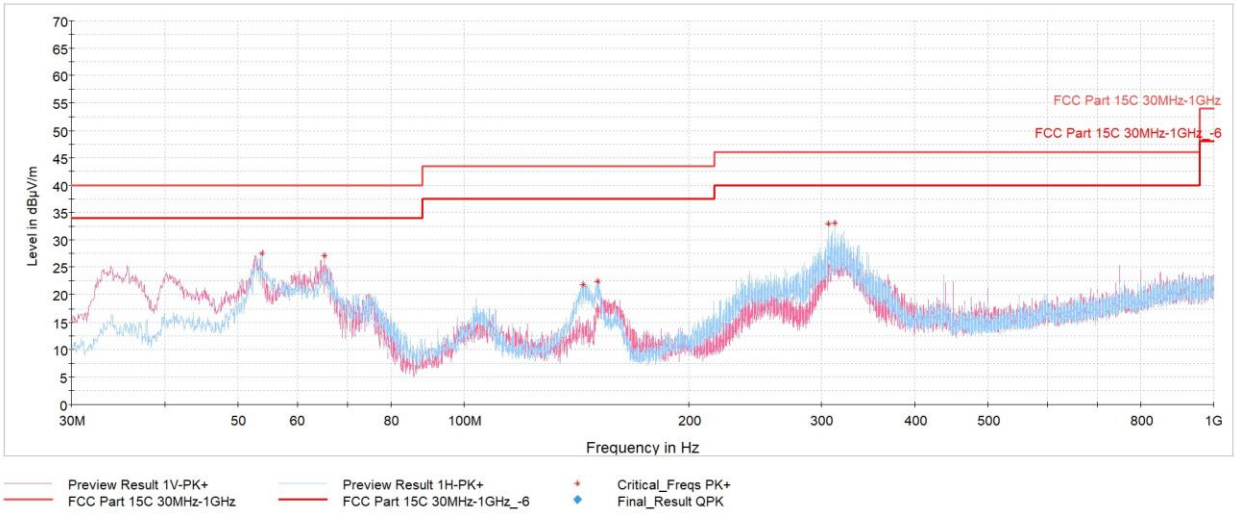
Sample Calculations

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 $_{[dB\mu V/m]}$

7.8.1 SDM Primary Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



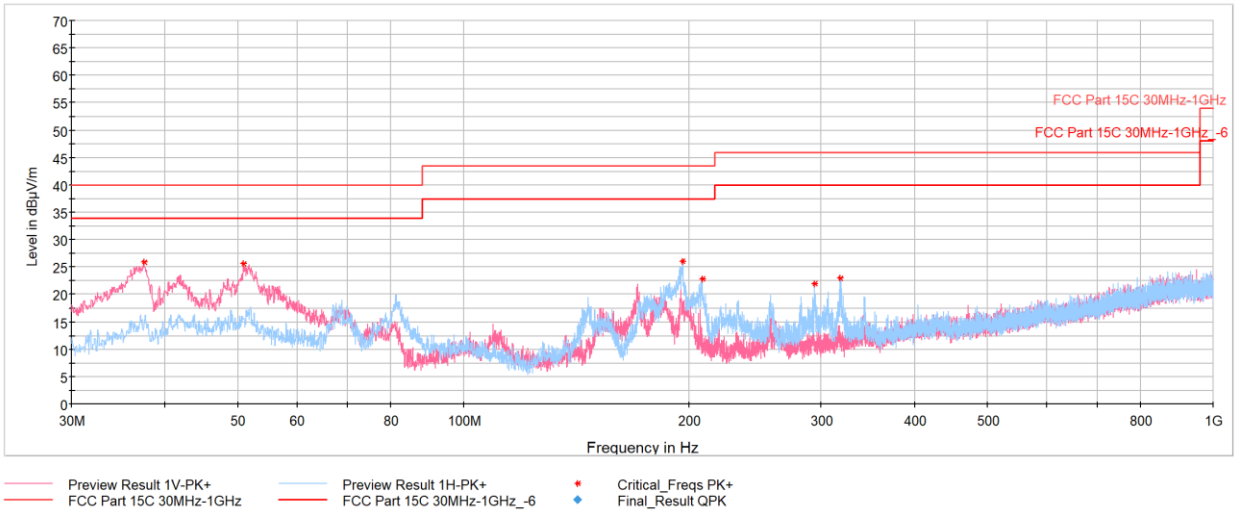
Plot 7-1583. Radiated Spurious Emissions below 1GHz SDM Primary, 802.11ax, Ch.1 with AC/DC adapter

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]
53.81	Max Peak	H	300	53	-65.94	-13.60	27.46	40.00	-12.54
65.26	Max Peak	V	300	120	-62.74	-17.16	27.10	40.00	-12.90
144.31	Max Peak	H	200	25	-64.52	-20.59	21.89	43.52	-21.63
151.06	Max Peak	H	200	25	-64.50	-20.16	22.34	43.52	-21.18
306.40	Max Peak	H	100	102	-59.80	-14.28	32.92	46.02	-13.10
312.61	Max Peak	H	100	102	-59.71	-14.18	33.11	46.02	-12.91

Table 7-226. Radiated Spurious Emissions Measurement below 1GHz SDM Primary, 802.11ax, Ch.1 with AC/DC adapter

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

§15.209; RSS-Gen [8.9]



Plot 7-1584. Radiated Spurious Emissions below 1GHz SDM Diversity, 802.11ax, Ch.1 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]
37.52	Max Peak	V	100	344	-65.91	-15.11	25.98	40.00	-14.02
50.90	Max Peak	V	100	268	-68.20	-13.13	25.67	40.00	-14.33
195.68	Max Peak	H	200	225	-64.38	-16.59	26.03	43.52	-17.49
208.24	Max Peak	H	100	192	-66.84	-17.33	22.83	43.52	-20.69
293.60	Max Peak	H	100	25	-70.31	-14.71	21.98	46.02	-24.04
317.90	Max Peak	H	100	0	-70.05	-13.89	23.06	46.02	-22.96

Table 7-227. Radiated Spurious Emissions Measurement below 1GHz SDM Diversity, 802.11ax, Ch.1 with AC/DC adapter

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 7-228. 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.

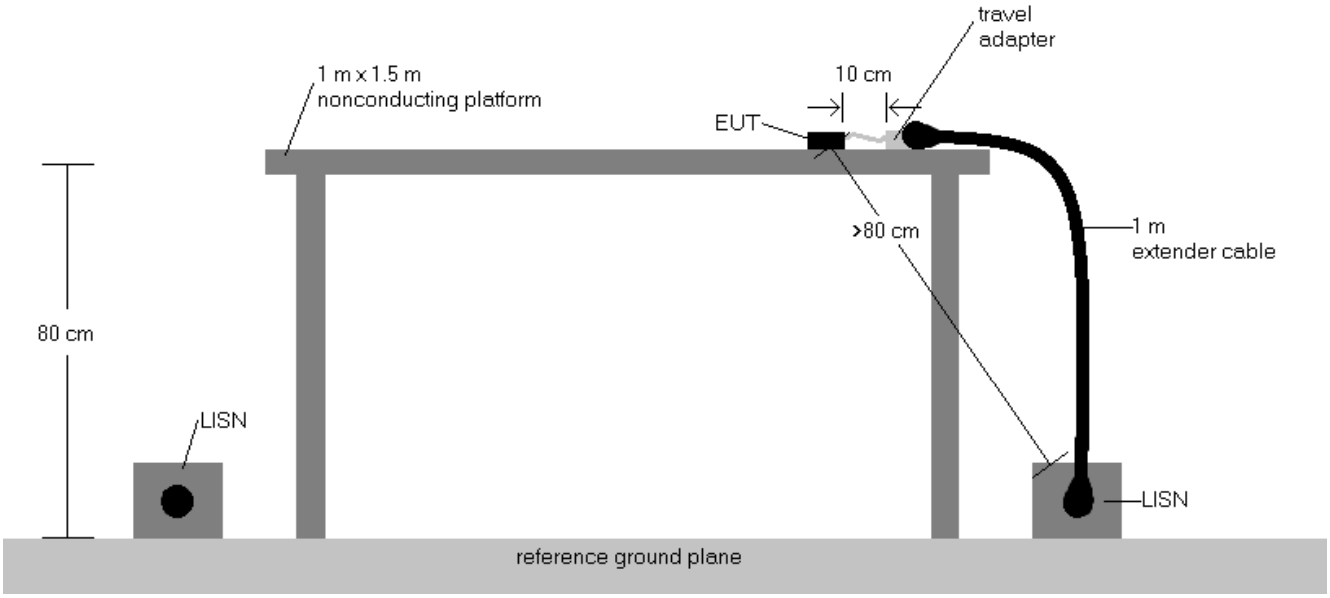
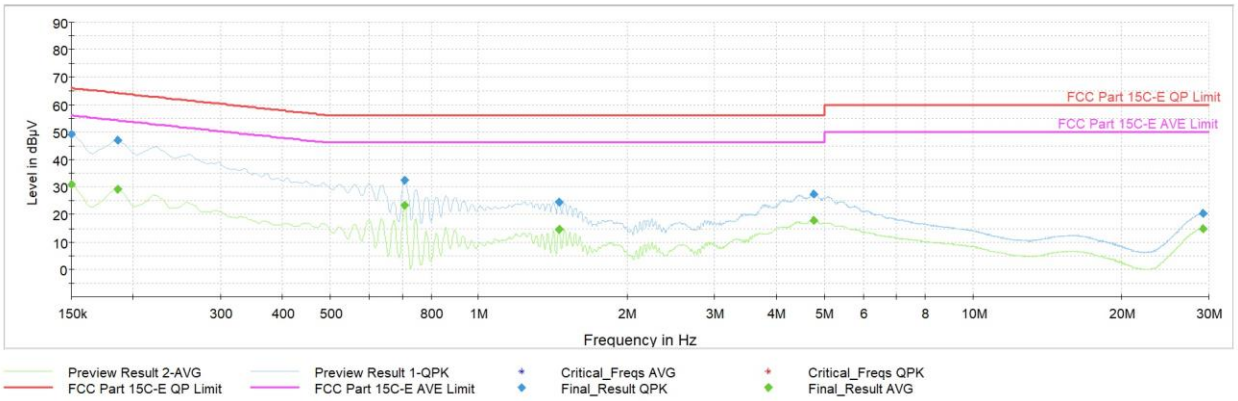


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

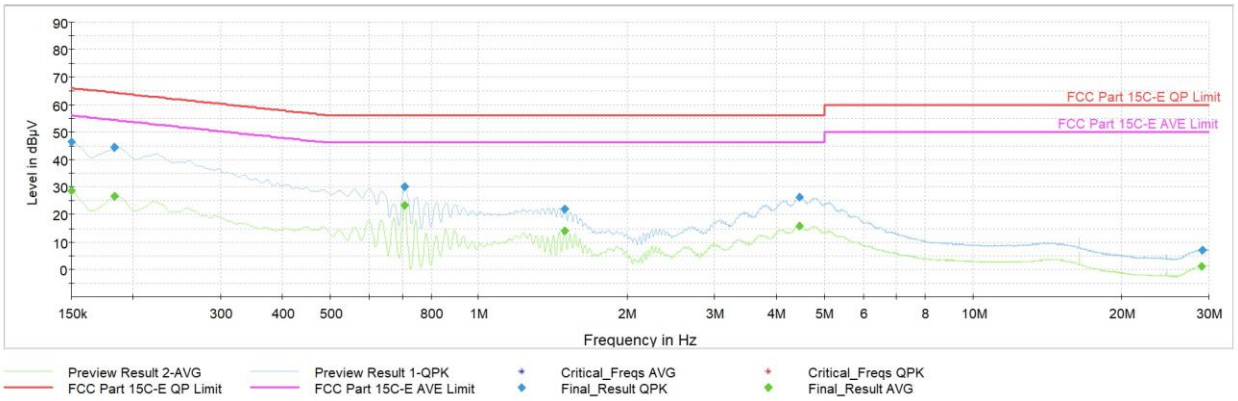
1. All modes of operation were investigated, and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
2. Both configurations below were investigated, and the worst case has been reported.
    a. EUT powered by AC/DC adaptor via USB-C 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 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 7-1585. AC Line Conducted Plot with 802.11ax SDM Primary – Ch.1 (L1), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	—	31.06	56.00	-24.94	L1	ON
0.150	FINAL	48.9	—	66.00	-17.07	L1	ON
0.186	FINAL	—	29.10	54.21	-25.12	L1	ON
0.186	FINAL	46.9	—	64.21	-17.33	L1	ON
0.708	FINAL	—	23.37	46.00	-22.63	L1	ON
0.708	FINAL	32.4	—	56.00	-23.63	L1	ON
1.455	FINAL	24.5	—	56.00	-31.48	L1	ON
1.455	FINAL	—	14.56	46.00	-31.44	L1	ON
4.763	FINAL	27.3	—	56.00	-28.67	L1	ON
4.763	FINAL	—	17.86	46.00	-28.15	L1	ON
29.261	FINAL	—	14.85	50.00	-35.15	L1	ON
29.263	FINAL	20.4	—	60.00	-39.64	L1	ON

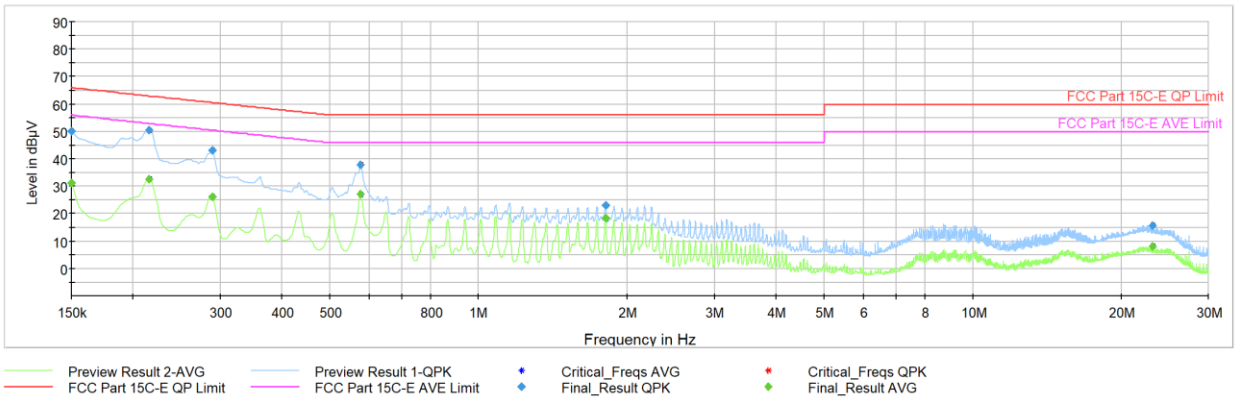
Table 7-229. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 1 (L1) with Laptop



Plot 7-1586. AC Line Conducted Plot with 802.11ax SDM Primary – Ch. 1 (N), with with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	—	28.51	56.00	-27.49	N	ON
0.150	FINAL	46.4	—	66.00	-19.63	N	ON
0.184	FINAL	—	26.56	54.31	-27.75	N	ON
0.184	FINAL	44.3	—	64.31	-20.06	N	ON
0.708	FINAL	30.0	—	56.00	-25.99	N	ON
0.708	FINAL	—	23.29	46.00	-22.71	N	ON
1.491	FINAL	21.8	—	56.00	-34.21	N	ON
1.491	FINAL	—	14.06	46.00	-31.94	N	ON
4.459	FINAL	—	15.64	46.00	-30.36	N	ON
4.461	FINAL	26.3	—	56.00	-29.67	N	ON
29.063	FINAL	—	1.16	50.00	-48.84	N	ON
29.067	FINAL	7.1	—	60.00	-52.92	N	ON

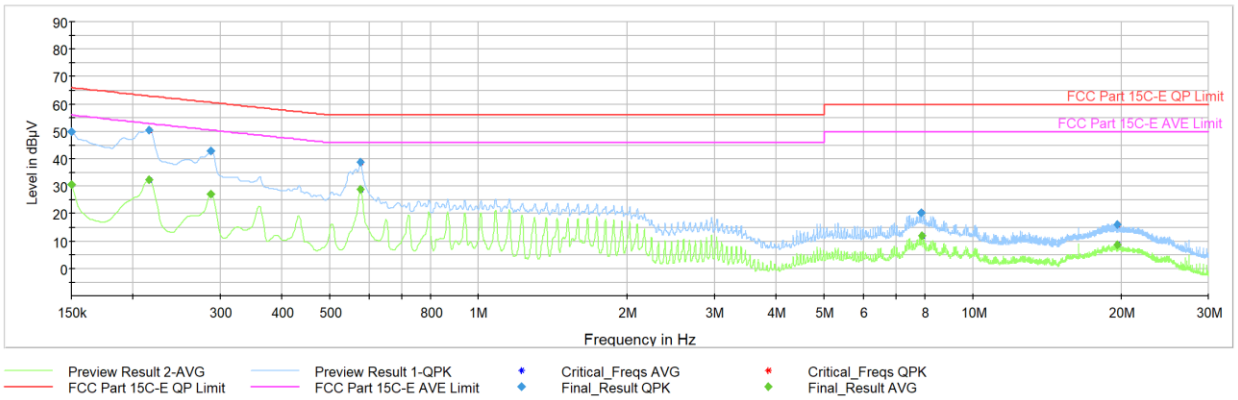
Table 7-230. AC Line Conducted Data with 802.11ax SDM Primary – Ch. 1 (N), with with Laptop



Plot 7-1587. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch.1 (L1), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	---	31.09	56.00	-24.91	L1	ON
0.150	FINAL	50.2	---	66.00	-15.76	L1	ON
0.215	FINAL	---	32.79	53.00	-20.21	L1	ON
0.215	FINAL	50.6	---	63.00	-12.37	L1	ON
0.290	FINAL	---	26.22	50.54	-24.32	L1	ON
0.290	FINAL	43.2	---	60.54	-17.30	L1	ON
0.578	FINAL	38.1	---	56.00	-17.95	L1	ON
0.578	FINAL	---	27.18	46.00	-18.82	L1	ON
1.806	FINAL	23.1	---	56.00	-32.90	L1	ON
1.806	FINAL	---	18.34	46.00	-27.66	L1	ON
23.109	FINAL	---	8.00	50.00	-42.00	L1	ON
23.109	FINAL	15.8	---	60.00	-44.16	L1	ON

Table 7-231. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 1 (L1) with Laptop



Plot 7-1588. AC Line Conducted Plot with 802.11ax SDM Diversity – Ch. 1 (N), with Laptop

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.150	FINAL	---	30.51	56.00	-25.49	N	ON
0.150	FINAL	50.0	---	66.00	-15.97	N	ON
0.215	FINAL	---	32.47	53.00	-20.53	N	ON
0.215	FINAL	50.5	---	63.00	-12.50	N	ON
0.287	FINAL	---	27.26	50.60	-23.34	N	ON
0.287	FINAL	43.0	---	60.60	-17.65	N	ON
0.578	FINAL	38.8	---	56.00	-17.16	N	ON
0.578	FINAL	---	28.97	46.00	-17.03	N	ON
7.870	FINAL	20.4	---	60.00	-39.59	N	ON
7.877	FINAL	---	11.87	50.00	-38.13	N	ON
19.628	FINAL	16.1	---	60.00	-43.87	N	ON
19.631	FINAL	---	8.64	50.00	-41.36	N	ON

Table 7-232. AC Line Conducted Data with 802.11ax SDM Diversity – Ch. 1 (N), with Laptop

8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2903** and **IC: 579C-A2903** 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.