



Appendix H for 5.2G WIFI RF Test Data

Product Name: Smartphone
Test Model: KINGKONG STAR 2

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





H.1 Centre Frequencies

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant6	5180.02	3.86	20	Pass
NVNT	ac20	5180	Ant6	5180.00	0.00	20	Pass
NVNT	ac40	5190	Ant6	5189.96	-7.71	20	Pass
NVNT	ac80	5210	Ant6	5210.03	5.76	20	Pass
NVNT	n20	5180	Ant6	5179.96	-7.72	20	Pass
NVNT	n40	5190	Ant6	5190.03	5.78	20	Pass
NVNT	ax20	5180	Ant6	5180.01	1.93	20	Pass
NVNT	ax40	5190	Ant6	5190.02	3.85	20	Pass
NVNT	ax80	5210	Ant6	5210.03	5.76	20	Pass

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVLT	a	5180	Ant6	5180.04	7.72	20	Pass
NVLT	ac20	5180	Ant6	5180.04	7.72	20	Pass
NVLT	ac40	5190	Ant6	5189.99	-1.93	20	Pass
NVLT	ac80	5210	Ant6	5209.96	-7.68	20	Pass
NVLT	n20	5180	Ant6	5179.96	-7.72	20	Pass
NVLT	n40	5190	Ant6	5190.01	1.93	20	Pass
NVLT	ax20	5180	Ant6	5180.02	3.86	20	Pass
NVLT	ax40	5190	Ant6	5190.03	5.78	20	Pass
NVLT	ax80	5210	Ant6	5210.03	5.76	20	Pass

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVHT	a	5180	Ant6	5179.98	-3.86	20	Pass
NVHT	ac20	5180	Ant6	5180.04	7.72	20	Pass
NVHT	ac40	5190	Ant6	5189.96	-7.71	20	Pass
NVHT	ac80	5210	Ant6	5209.98	-3.84	20	Pass
NVHT	n20	5180	Ant6	5180.03	5.79	20	Pass
NVHT	n40	5190	Ant6	5190.00	0.00	20	Pass
NVHT	ax20	5180	Ant6	5180.04	7.72	20	Pass
NVHT	ax40	5190	Ant6	5190.04	7.71	20	Pass
NVHT	ax80	5210	Ant6	5210.01	1.92	20	Pass





Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant7	5179.98	-3.86	20	Pass
NVNT	ac20	5180	Ant7	5180.02	3.86	20	Pass
NVNT	ac40	5190	Ant7	5189.96	-7.71	20	Pass
NVNT	ac80	5210	Ant7	5210.04	7.68	20	Pass
NVNT	n20	5180	Ant7	5179.99	-1.93	20	Pass
NVNT	n40	5190	Ant7	5190.00	0.00	20	Pass
NVNT	ax20	5180	Ant7	5179.96	-7.72	20	Pass
NVNT	ax40	5190	Ant7	5190.01	1.93	20	Pass
NVNT	ax80	5210	Ant7	5210.02	3.84	20	Pass

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVLT	a	5180	Ant7	5179.96	-7.72	20	Pass
NVLT	ac20	5180	Ant7	5180.01	1.93	20	Pass
NVLT	ac40	5190	Ant7	5190.01	1.93	20	Pass
NVLT	ac80	5210	Ant7	5209.96	-7.68	20	Pass
NVLT	n20	5180	Ant7	5179.96	-7.72	20	Pass
NVLT	n40	5190	Ant7	5189.96	-7.71	20	Pass
NVLT	ax20	5180	Ant7	5179.98	-3.86	20	Pass
NVLT	ax40	5190	Ant7	5189.97	-5.78	20	Pass
NVLT	ax80	5210	Ant7	5210.03	5.76	20	Pass

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
NVHT	a	5180	Ant7	5180.03	5.79	20	Pass
NVHT	ac20	5180	Ant7	5180.03	5.79	20	Pass
NVHT	ac40	5190	Ant7	5189.96	-7.71	20	Pass
NVHT	ac80	5210	Ant7	5209.97	-5.76	20	Pass
NVHT	n20	5180	Ant7	5180.00	0.00	20	Pass
NVHT	n40	5190	Ant7	5190.02	3.85	20	Pass
NVHT	ax20	5180	Ant7	5179.96	-7.72	20	Pass
NVHT	ax40	5190	Ant7	5190.04	7.71	20	Pass
NVHT	ax80	5210	Ant7	5210.00	0.00	20	Pass



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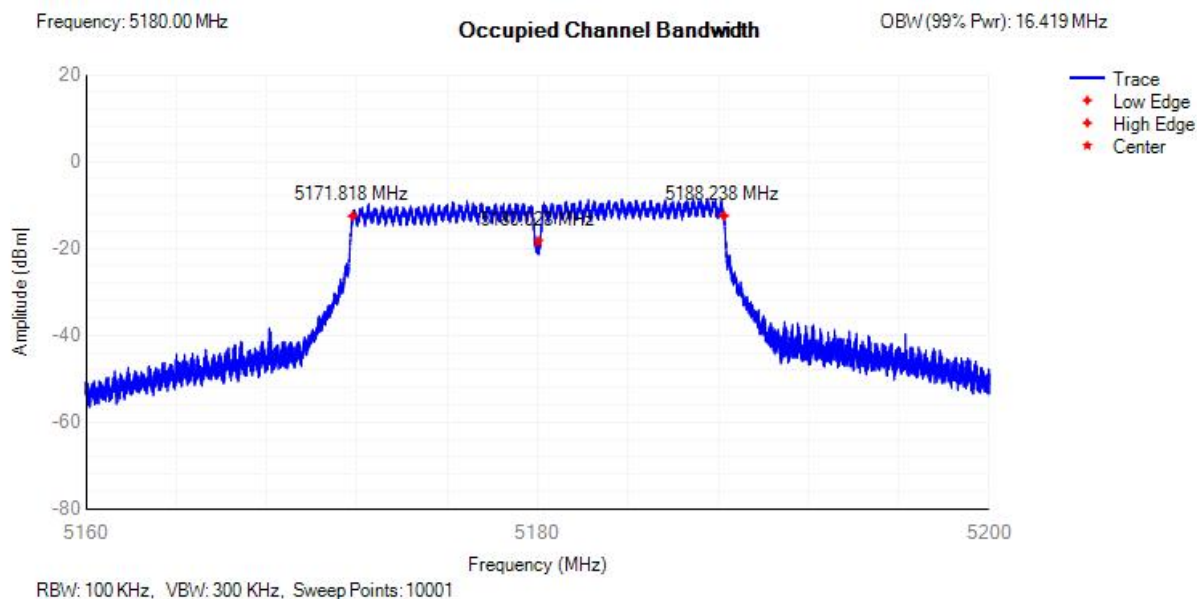


H.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth

Ant6:

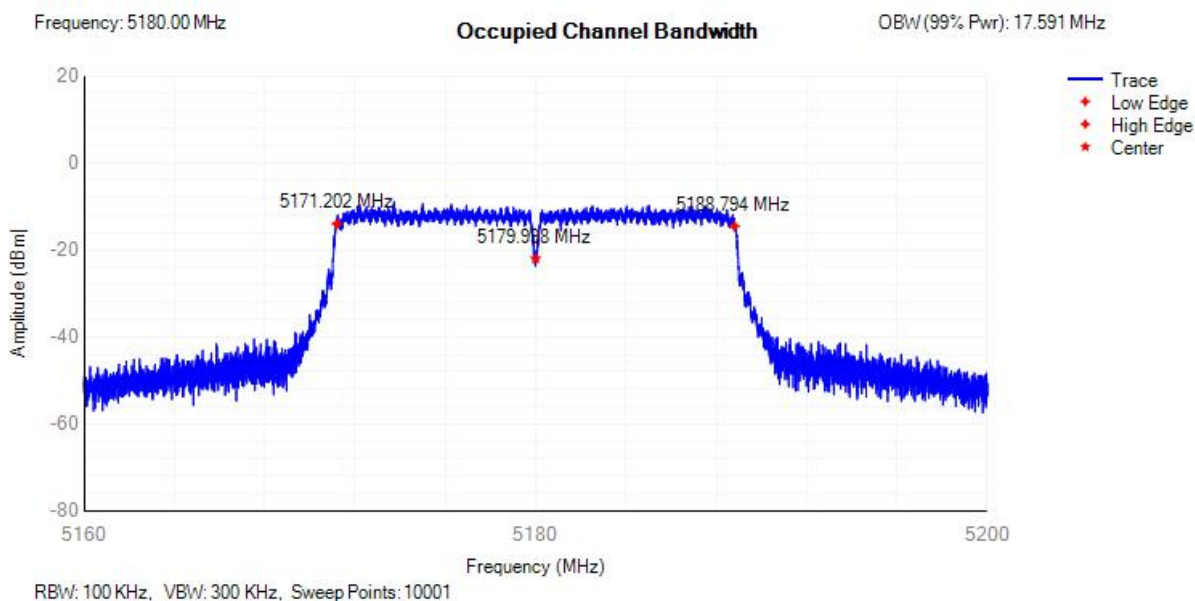
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Limit (MHz)	Upper Limit(MHz)	Verdict
NVNT	a	5180	5180.028	16.419	16	20	Pass
NVNT	ac20	5180	5179.998	17.591	16	20	Pass
NVNT	ac40	5190	5189.99	36.17	32	40	Pass
NVNT	ac80	5210	5209.975	75.601	64	80	Pass
NVNT	n20	5180	5180.002	17.592	16	20	Pass
NVNT	n40	5190	5189.992	36.163	32	40	Pass
NVNT	ax20	5180	5179.988	17.537	16	20	Pass
NVNT	ax40	5190	5189.962	35.854	32	40	Pass
NVNT	ax80	5210	5209.908	75.29	64	80	Pass

OBW NVNT a 5180MHz

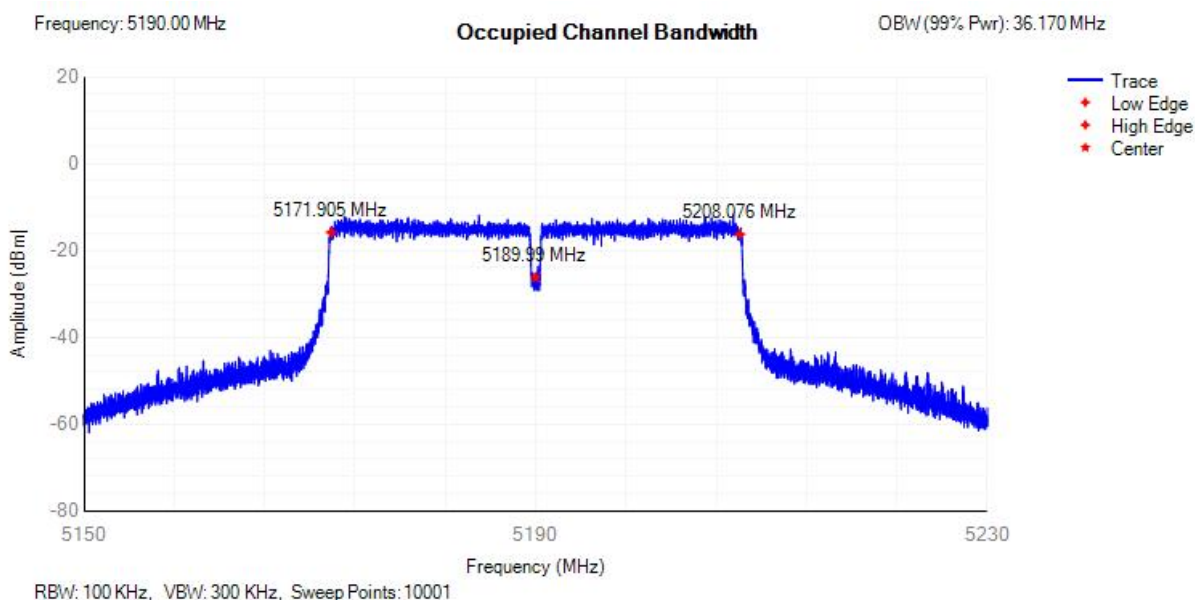




OBW NVNT ac20 5180MHz

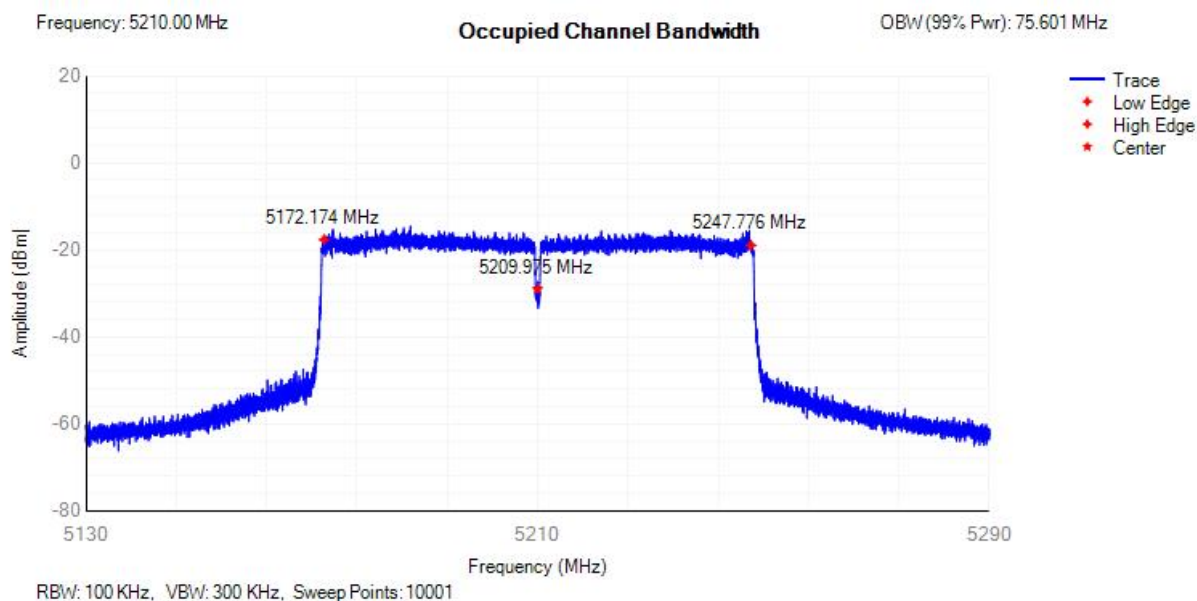


OBW NVNT ac40 5190MHz

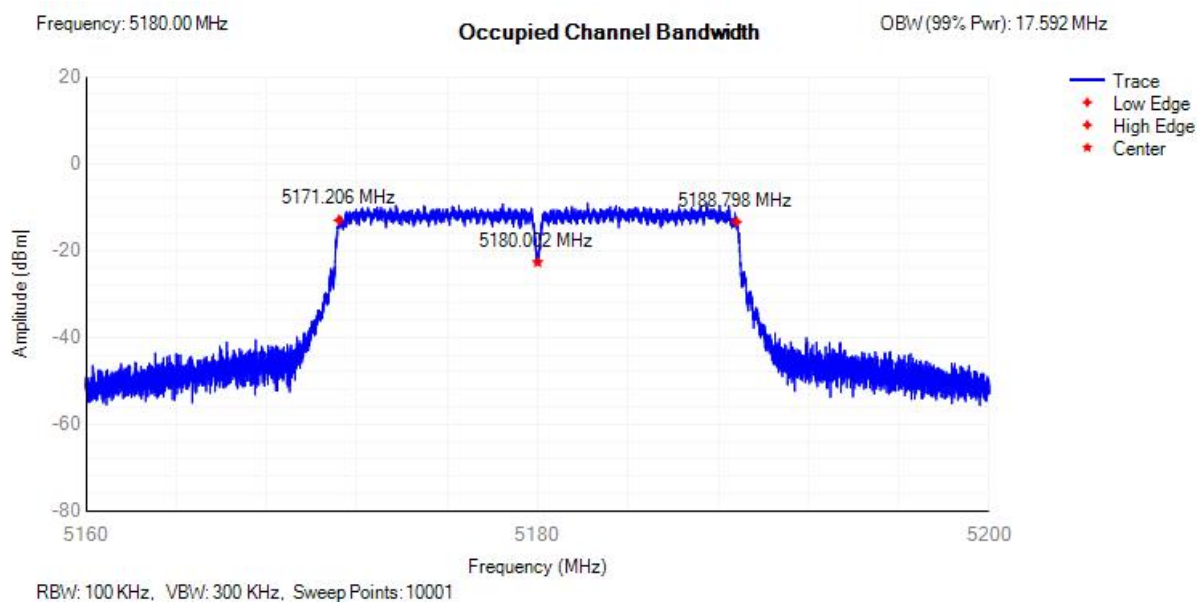




OBW NVNT ac80 5210MHz



OBW NVNT n20 5180MHz



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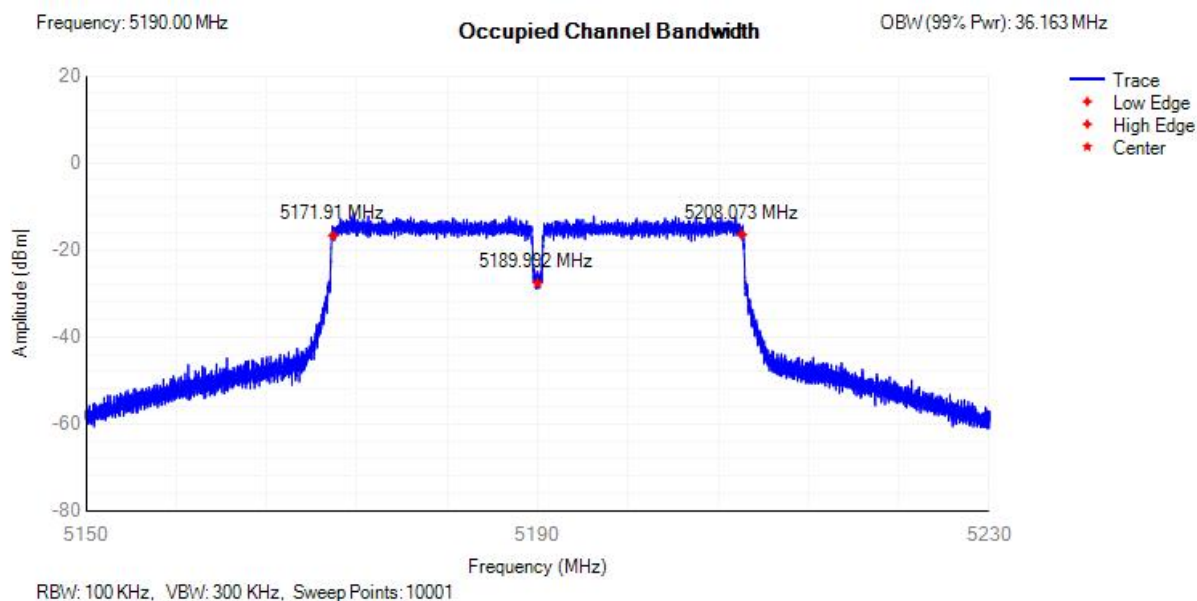
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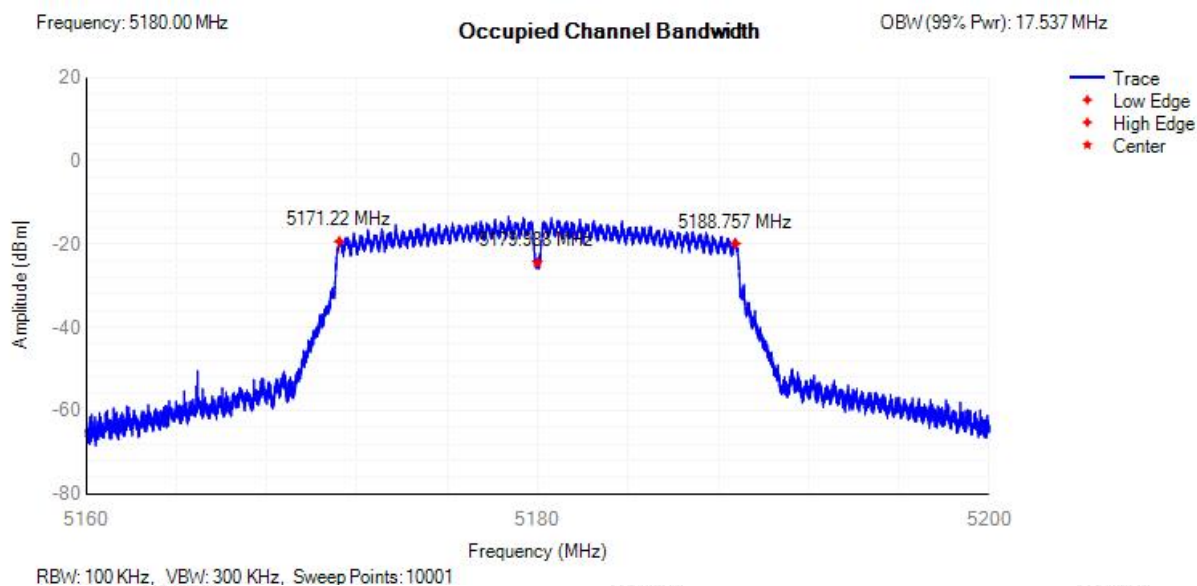
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OBW NVNT n40 5190MHz



OBW NVNT ax20 5180MHz



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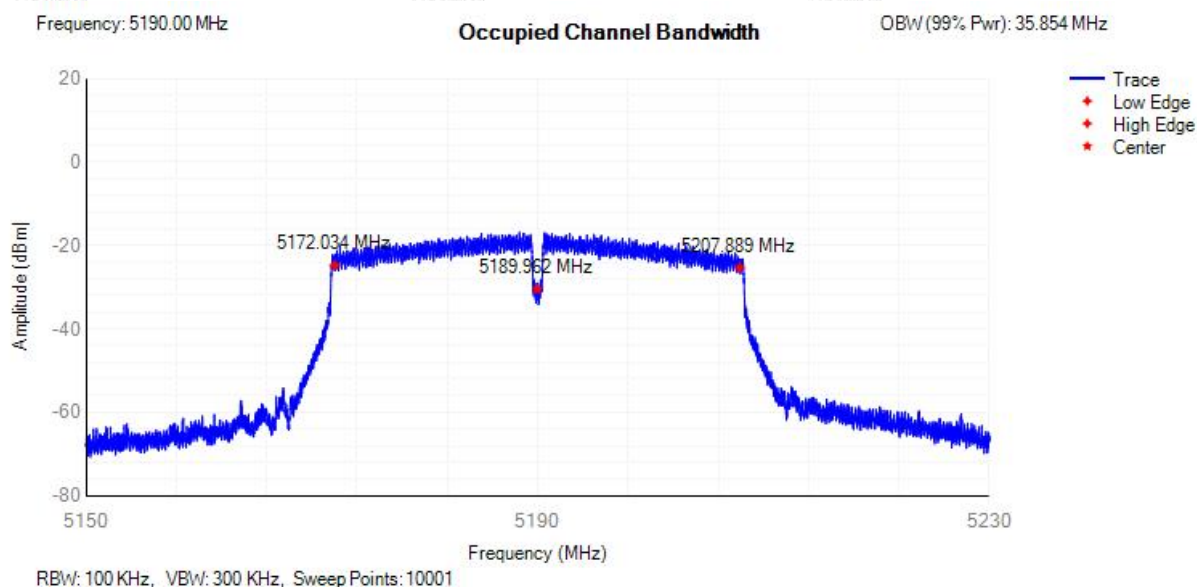
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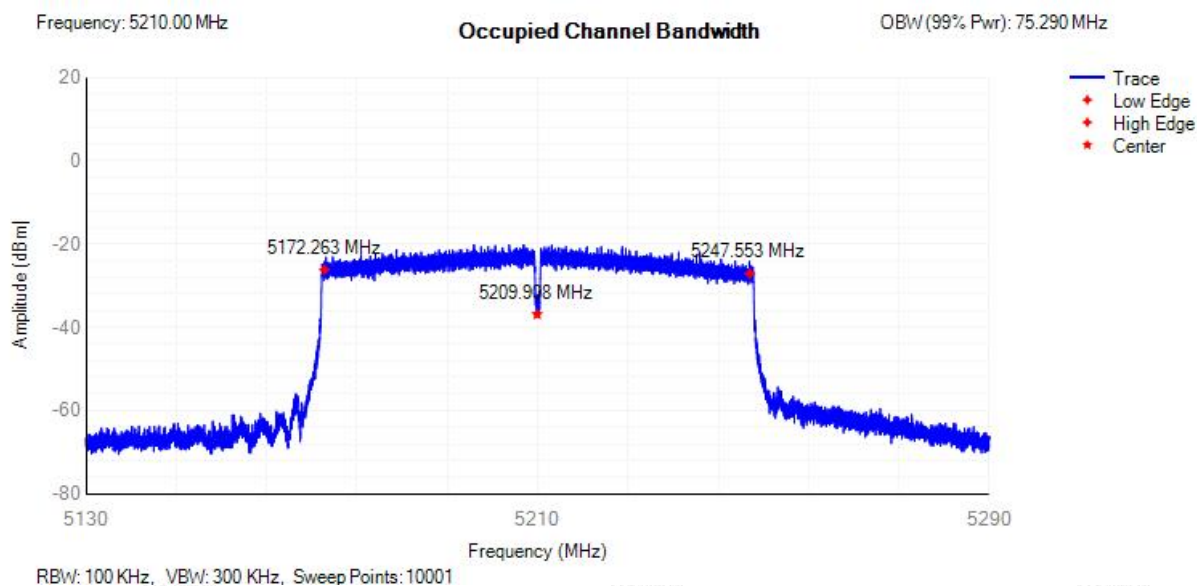
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OBW NVNT ax40 5190MHz



OBW NVNT ax80 5210MHz

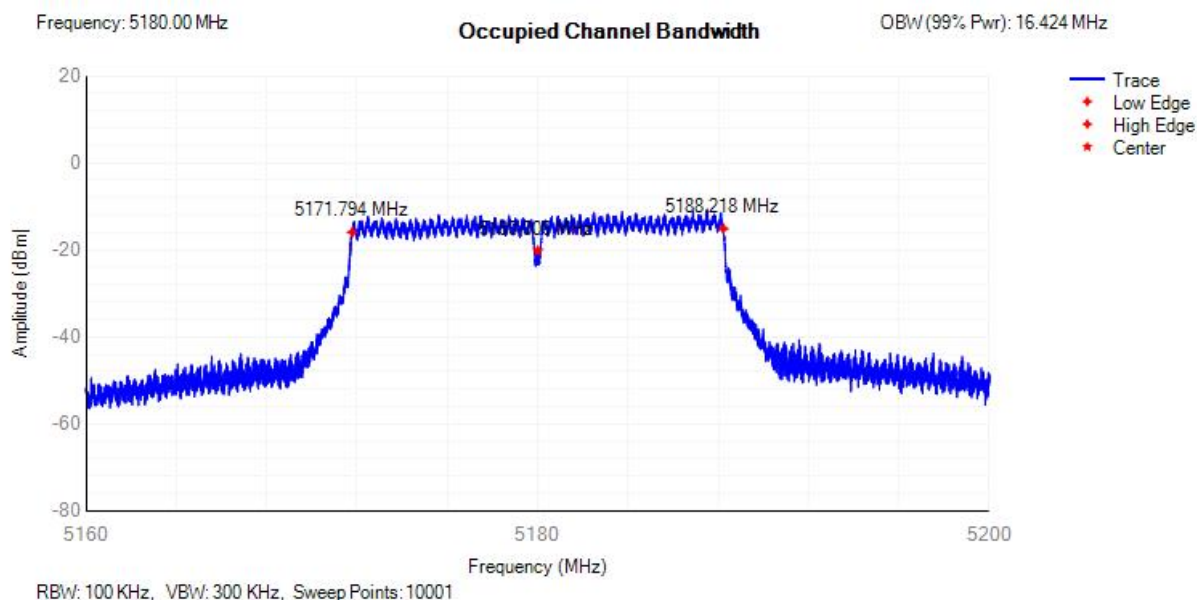




Ant7:

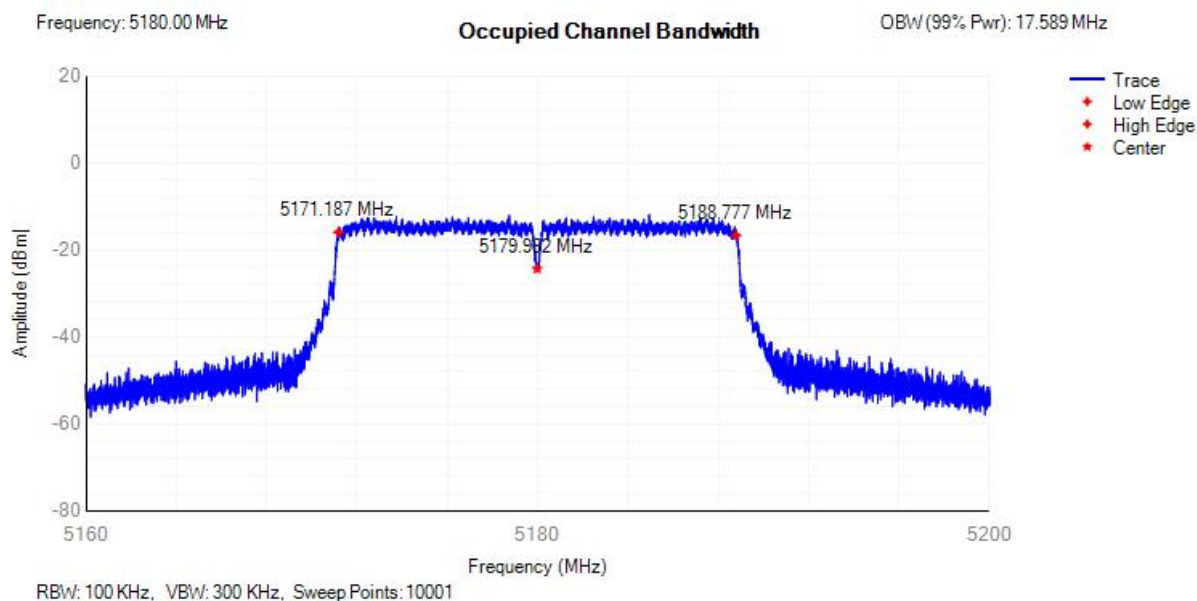
Condition	Mode	Frequency (MHz)	Center Frequency (MHz)	OBW (MHz)	Lower Limit (MHz)	Upper Limit(MHz)	Verdict
NVNT	a	5180	5180.006	16.424	16	20	Pass
NVNT	ac20	5180	5179.982	17.589	16	20	Pass
NVNT	ac40	5190	5189.98	36.193	32	40	Pass
NVNT	ac80	5210	5209.937	75.527	64	80	Pass
NVNT	n20	5180	5179.985	17.587	16	20	Pass
NVNT	n40	5190	5189.973	36.182	32	40	Pass
NVNT	ax20	5180	5179.98	17.587	16	20	Pass
NVNT	ax40	5190	5189.98	36.173	32	40	Pass
NVNT	ax80	5210	5209.989	75.484	64	80	Pass

OBW NVNT a 5180MHz

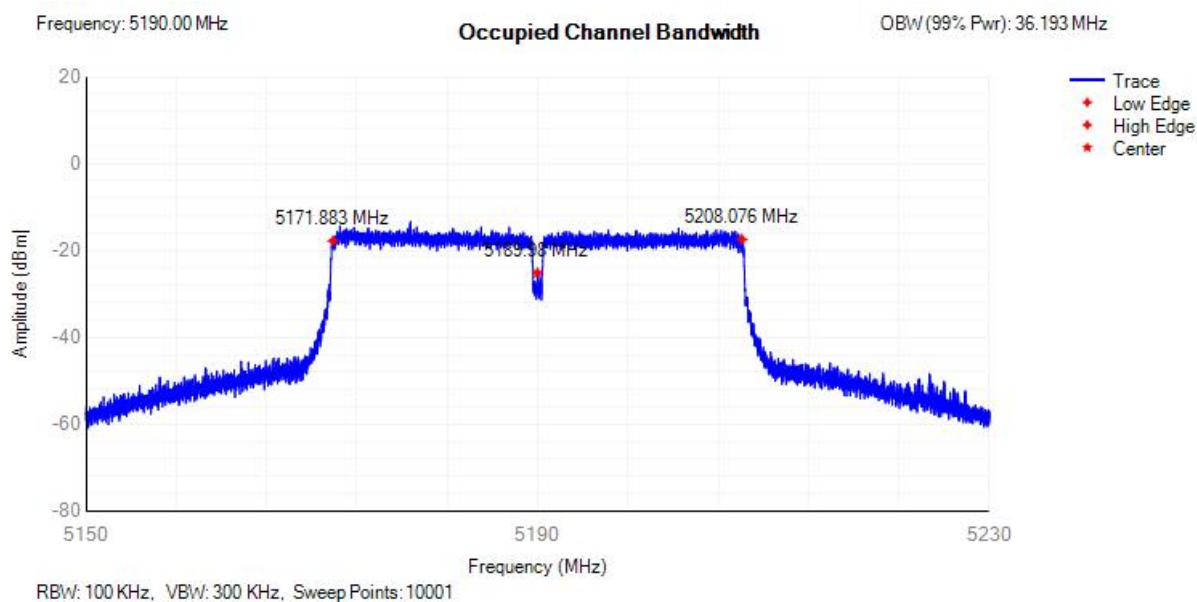




OBW NVNT ac20 5180MHz

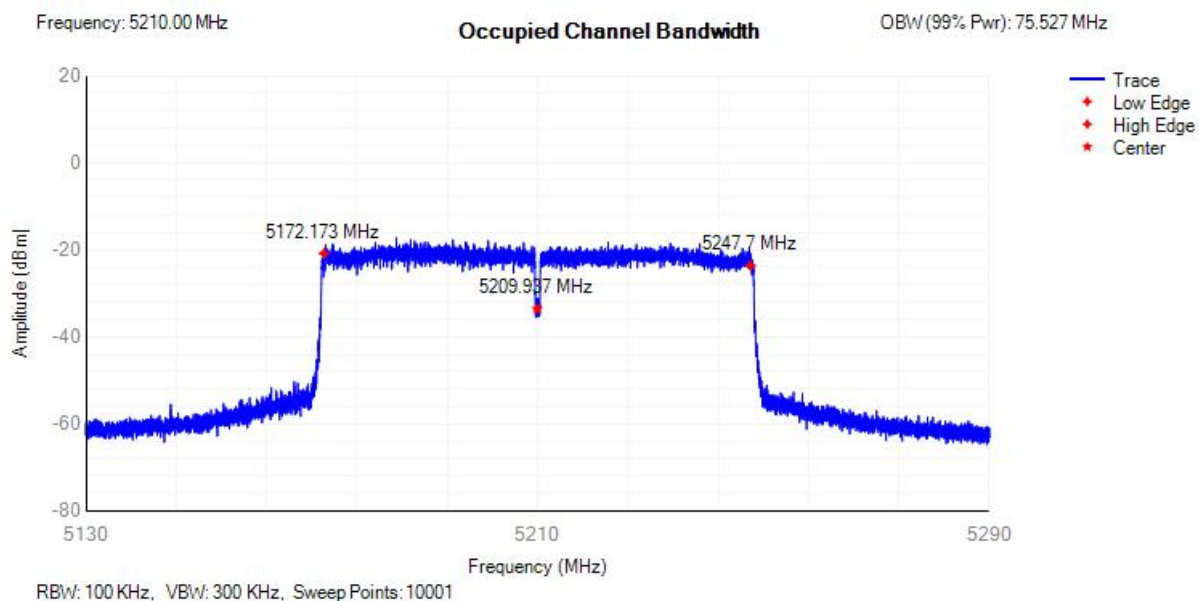


OBW NVNT ac40 5190MHz

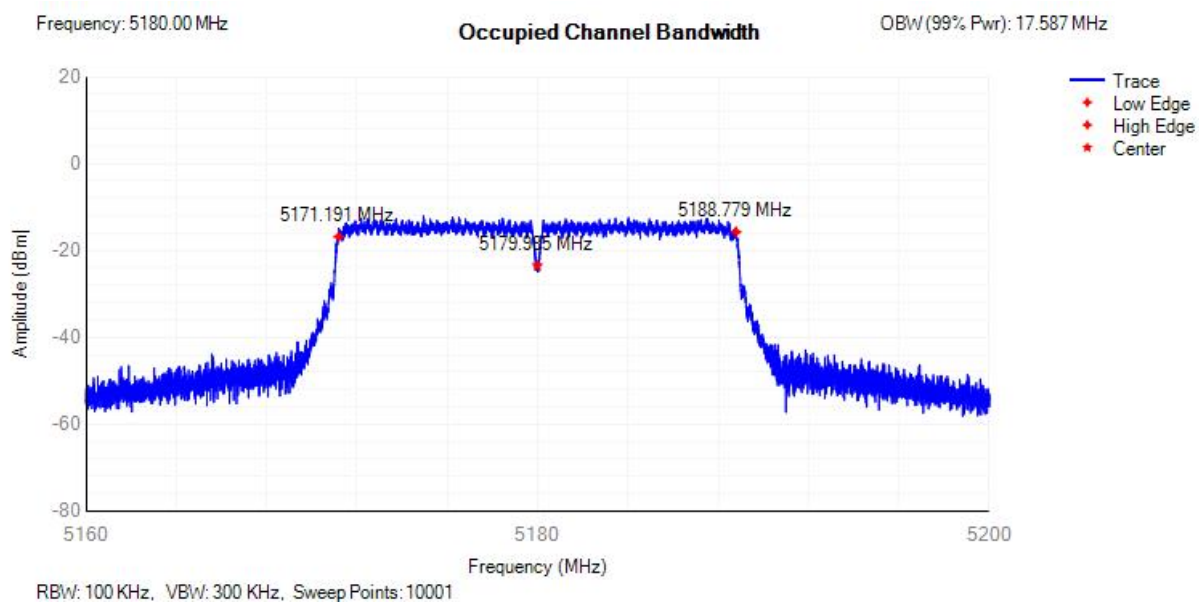




OBW NVNT ac80 5210MHz



OBW NVNT n20 5180MHz



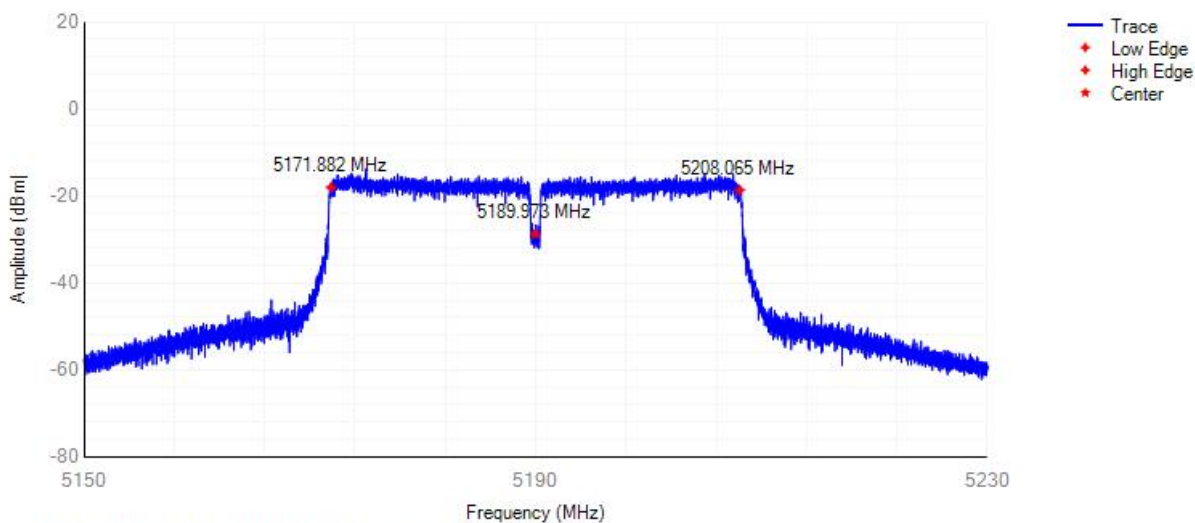


OBW NVNT n40 5190MHz

Frequency: 5190.00 MHz

Occupied Channel Bandwidth

OBW(99% Pwr): 36.182 MHz

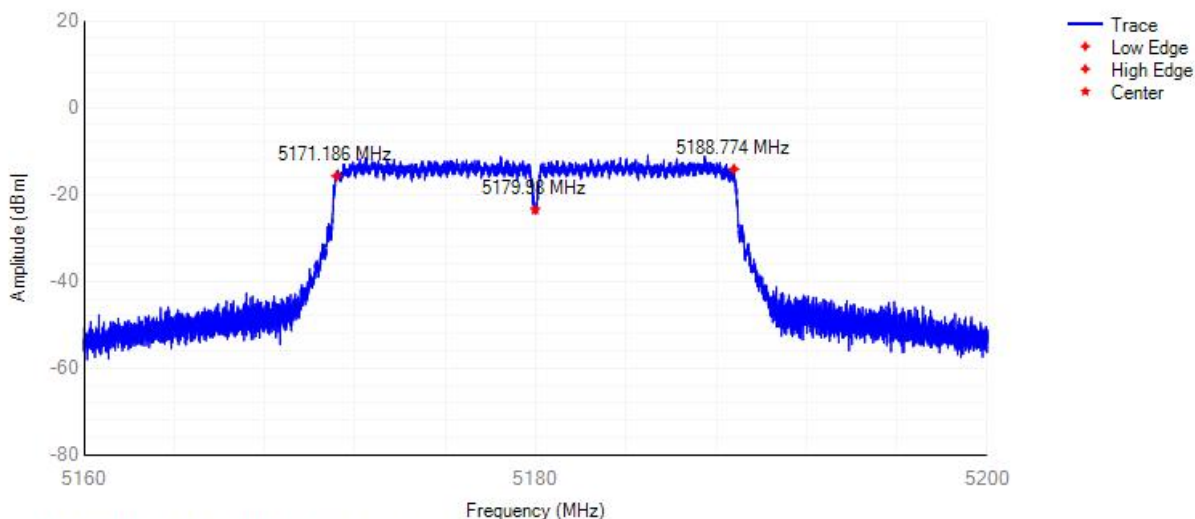


OBW NVNT ax20 5180MHz

Frequency: 5180.00 MHz

Occupied Channel Bandwidth

OBW(99% Pwr): 17.587 MHz



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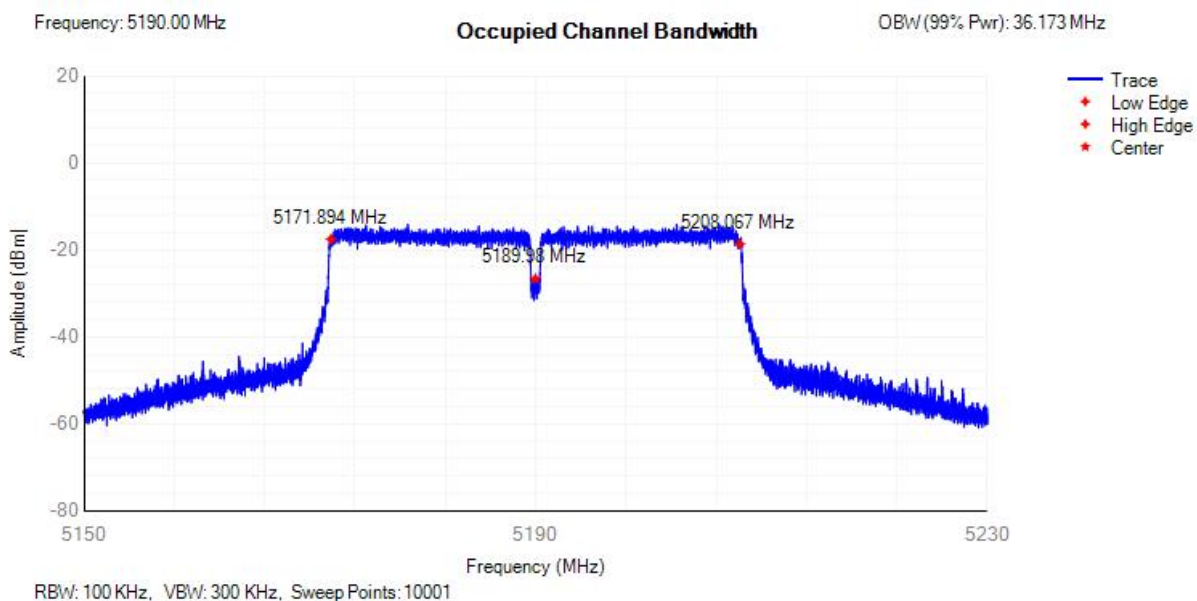
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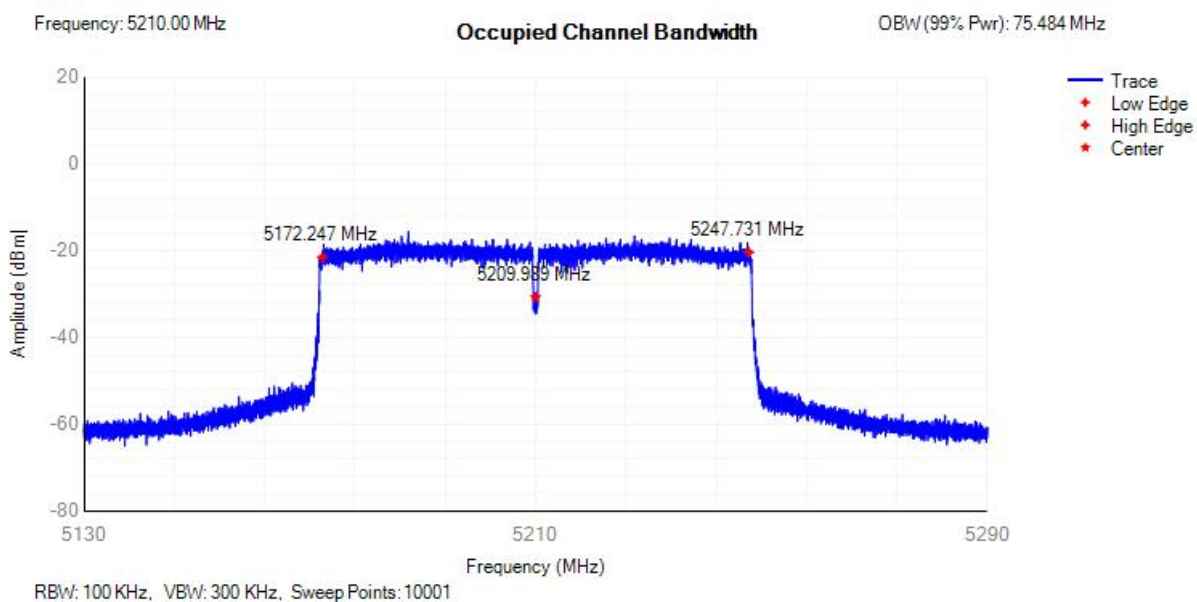
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OBW NVNT ax40 5190MHz



OBW NVNT ax80 5210MHz



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H.3 RF Output Power

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)			Limit (dBm)	Verdict
			Ant6	Ant7	Ant6+Ant7		
NVNT	a	5180	12.98	12.44	/	23	Pass
NVNT	ac20	5180	12.45	12.25	15.36	23	Pass
NVNT	ac40	5190	12.76	13.01	15.90	23	Pass
NVNT	ac80	5210	12.73	12.73	15.74	23	Pass
NVNT	n20	5180	12.6	12.31	15.47	23	Pass
NVNT	n40	5190	12.79	12.56	15.69	23	Pass
NVNT	ax20	5180	12.73	12.68	15.72	23	Pass
NVNT	ax40	5190	13.2	13.08	16.15	23	Pass
NVNT	ax80	5210	13.1	13	16.06	23	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)			Limit (dBm)	Verdict
			Ant6	Ant7	Ant6+Ant7		
NVLT	a	5180	12.86	12.37	/	23	Pass
NVLT	ac20	5180	12.33	12.21	15.28	23	Pass
NVLT	ac40	5190	12.72	12.95	15.85	23	Pass
NVLT	ac80	5210	12.67	12.63	15.66	23	Pass
NVLT	n20	5180	12.49	12.27	15.39	23	Pass
NVLT	n40	5190	12.67	12.45	15.57	23	Pass
NVLT	ax20	5180	12.63	12.60	15.63	23	Pass
NVLT	ax40	5190	13.11	13.04	16.09	23	Pass
NVLT	ax80	5210	13.06	12.90	15.99	23	Pass

Condition	Mode	Frequency (MHz)	Max EIRP (dBm)			Limit (dBm)	Verdict
			Ant6	Ant7	Ant6+Ant7		
NVHT	a	5180	12.75	12.23	/	23	Pass
NVHT	ac20	5180	12.27	12.04	15.17	23	Pass
NVHT	ac40	5190	12.57	12.81	15.70	23	Pass
NVHT	ac80	5210	12.54	12.51	15.54	23	Pass
NVHT	n20	5180	12.40	12.13	15.28	23	Pass
NVHT	n40	5190	12.58	12.34	15.47	23	Pass
NVHT	ax20	5180	12.52	12.47	15.51	23	Pass
NVHT	ax40	5190	13.02	12.87	15.96	23	Pass
NVHT	ax80	5210	12.88	12.81	15.86	23	Pass

***Note: 20 bursts had been captured for power measurement.



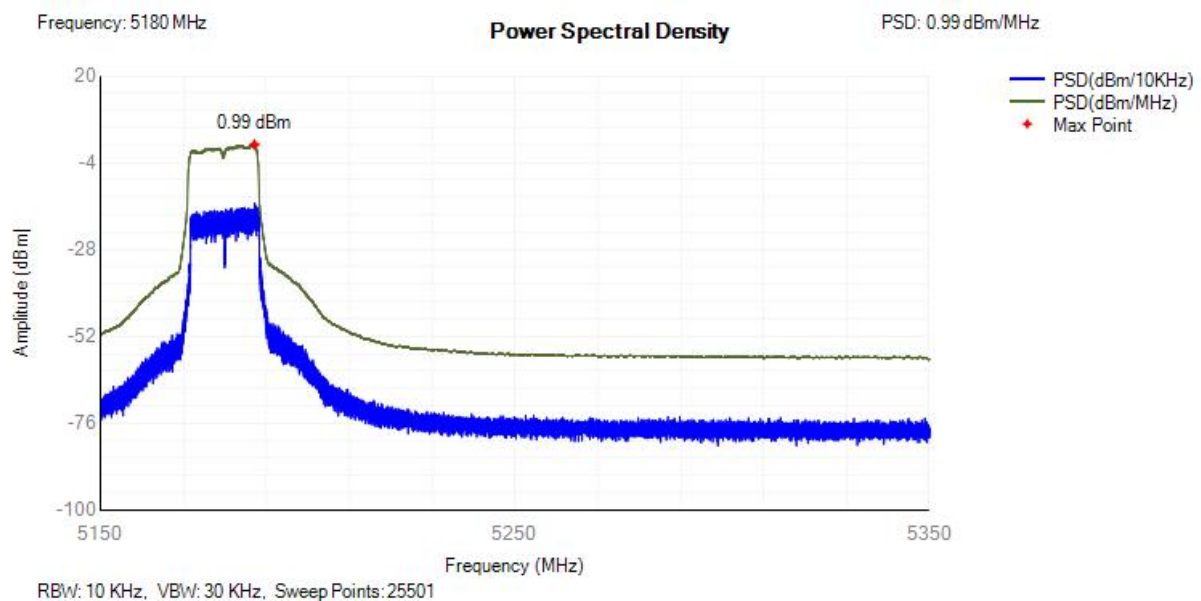


H.4 Power Spectral Density

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant6	Ant7	Ant6+Ant7		
NVNT	a	5180	0.99	0.24	/	10	Pass
NVNT	ac20	5180	-0.46	-0.67	2.45	10	Pass
NVNT	ac40	5190	-3.02	-2.53	0.24	10	Pass
NVNT	ac80	5210	-5.91	-5.88	-2.88	10	Pass
NVNT	n20	5180	-0.24	-0.63	2.58	10	Pass
NVNT	n40	5190	-2.92	-3.18	-0.04	10	Pass
NVNT	ax20	5180	-0.24	-0.27	2.76	10	Pass
NVNT	ax40	5190	-2.59	-2.63	0.40	10	Pass
NVNT	ax80	5210	-5.76	-6.05	-2.89	10	Pass

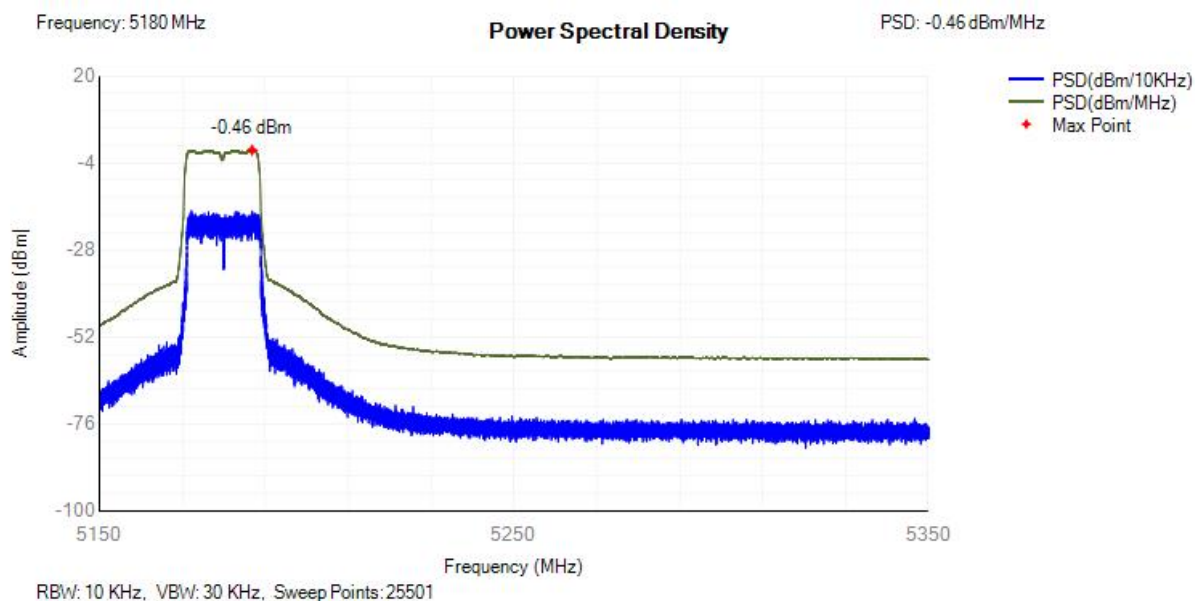
Ant6:

PSD NVNT a 5180MHz

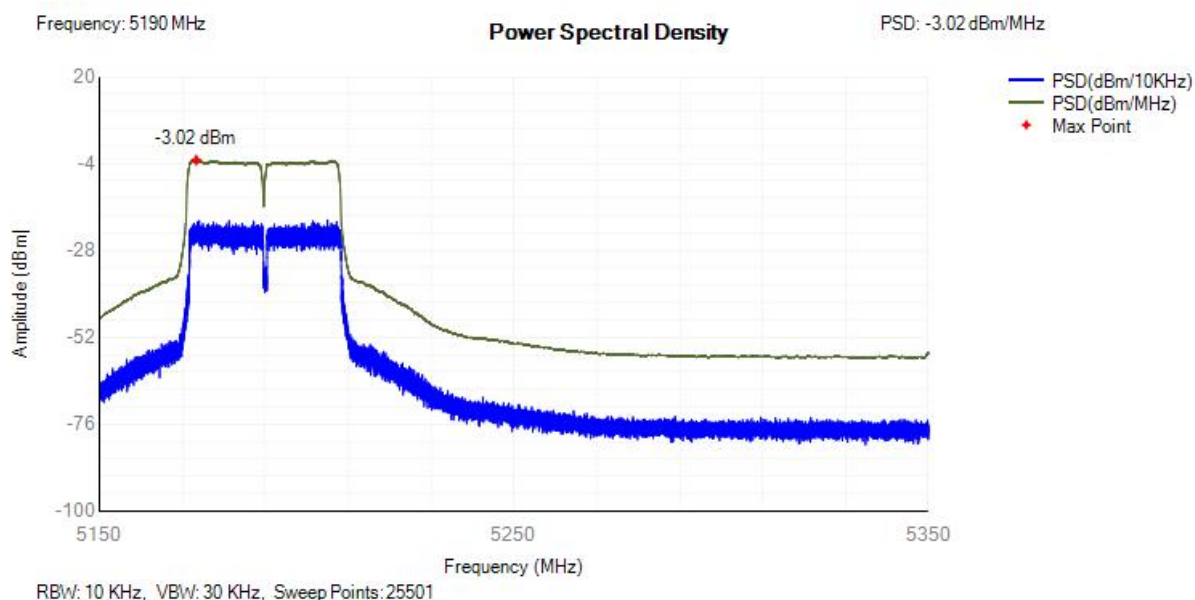




PSD NVNT ac20 5180MHz



PSD NVNT ac40 5190MHz



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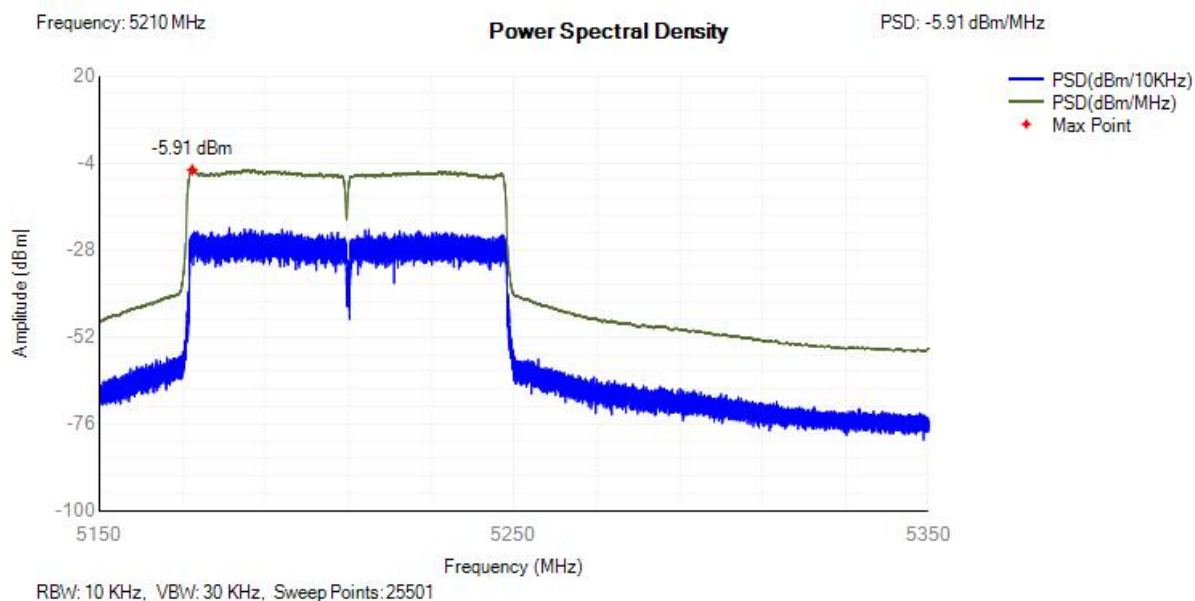
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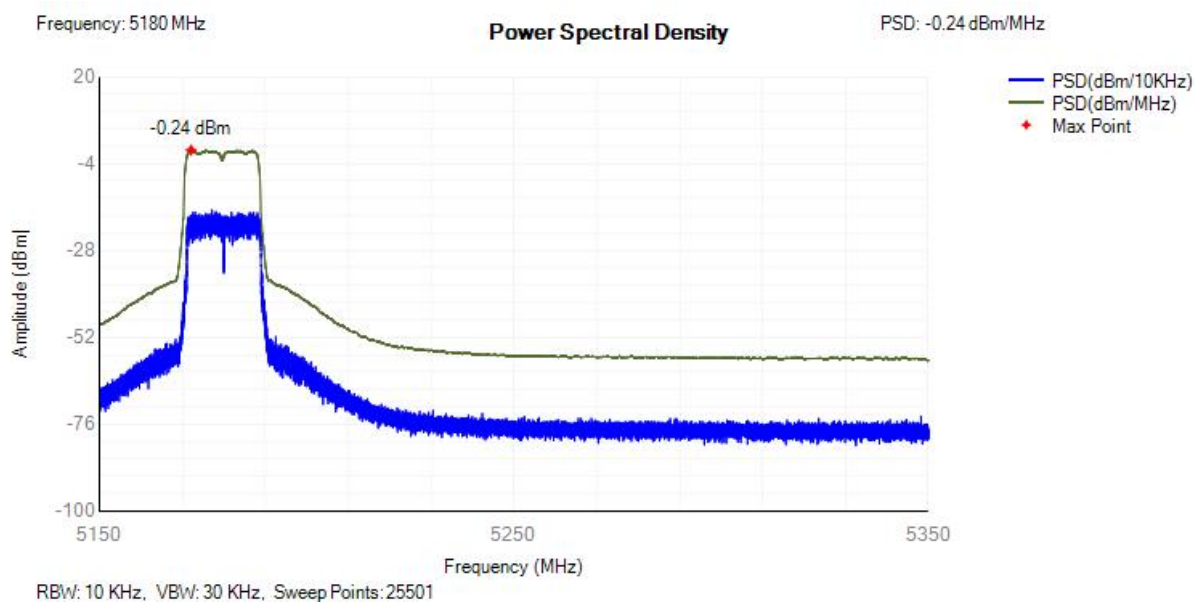
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PSD NVNT ac80 5210MHz



PSD NVNT n20 5180MHz



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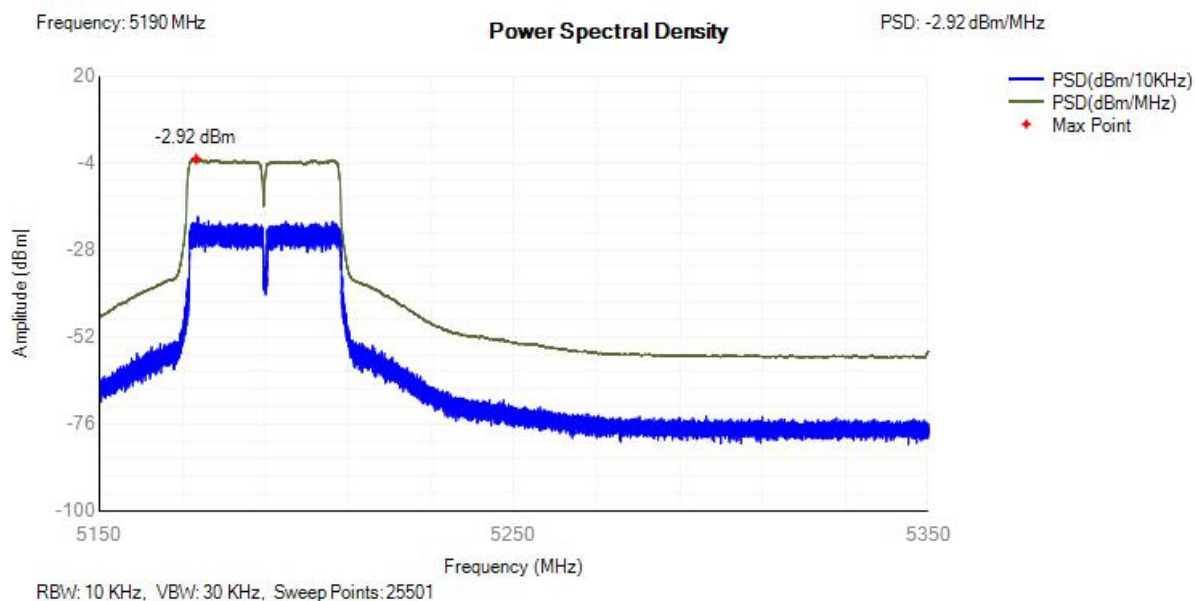
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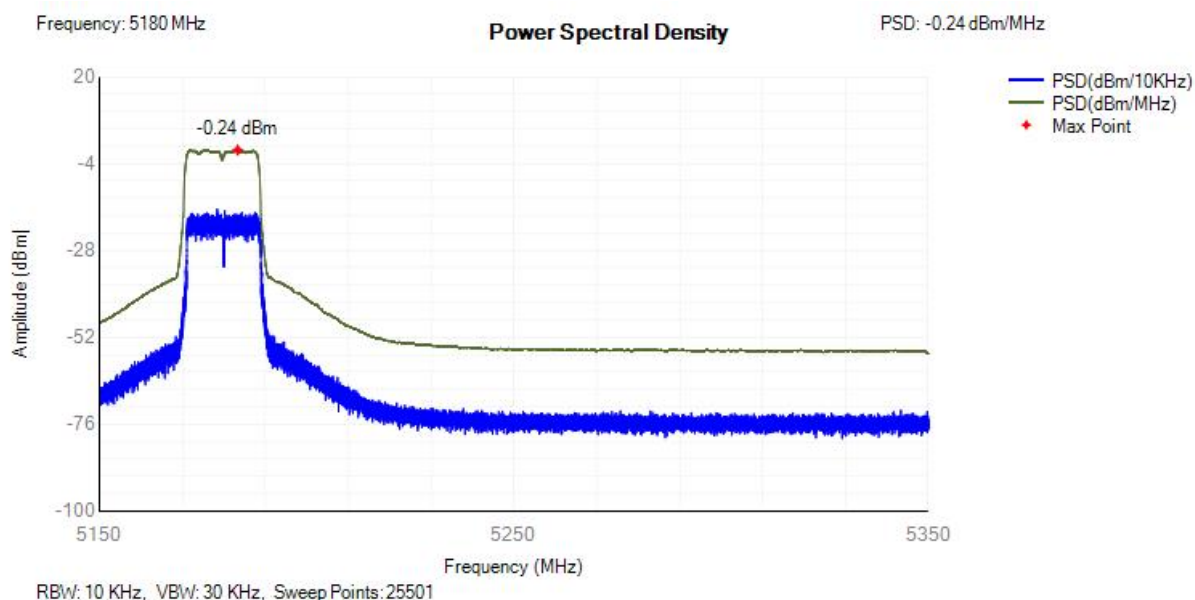
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PSD NVNT n40 5190MHz



PSD NVNT ax20 5180MHz



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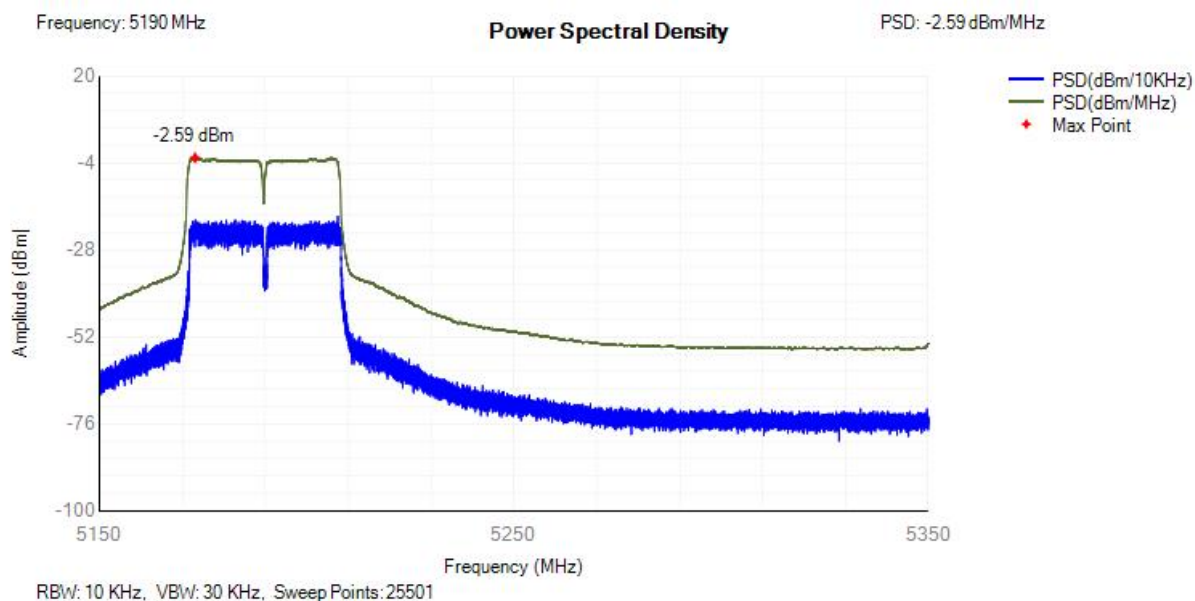
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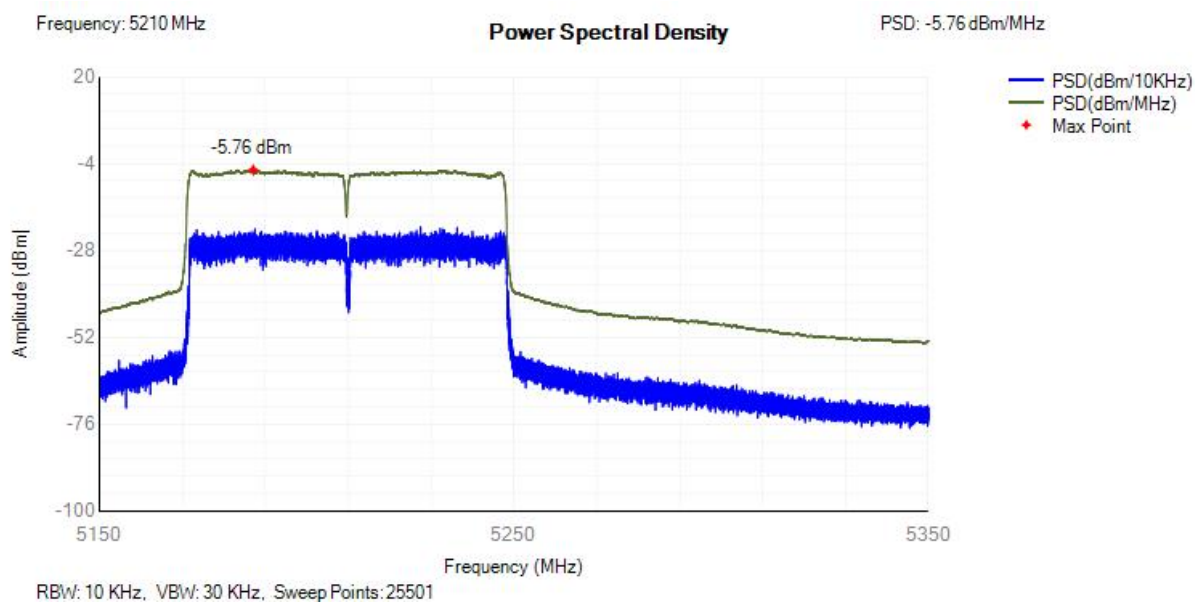
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PSD NVNT ax40 5190MHz



PSD NVNT ax80 5210MHz



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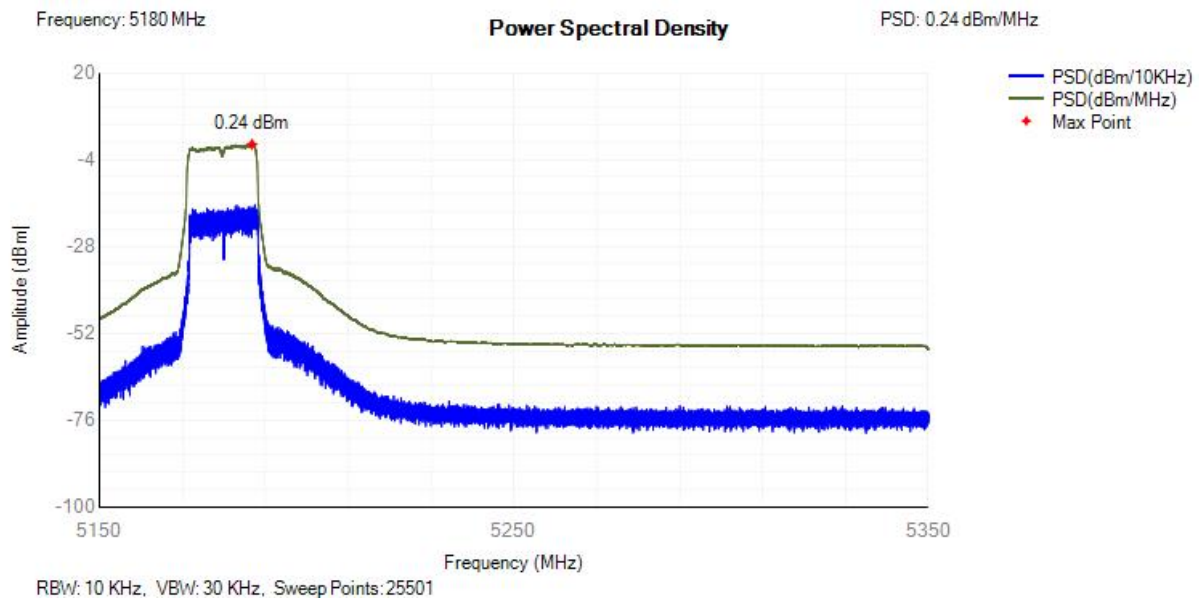
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Ant7:

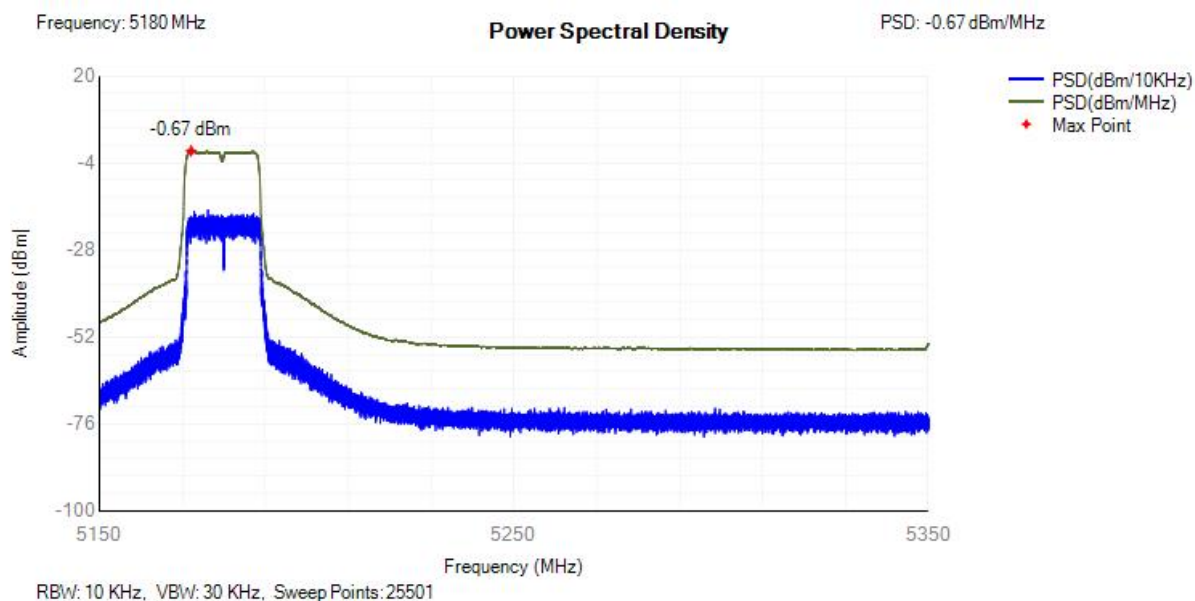
Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180		10	Pass
NVNT	ac20	5180		10	Pass
NVNT	ac40	5190		10	Pass
NVNT	ac80	5210		10	Pass
NVNT	n20	5180		10	Pass
NVNT	n40	5190		10	Pass
NVNT	ax20	5180		10	Pass
NVNT	ax40	5190		10	Pass
NVNT	ax80	5210		10	Pass

PSD NVNT a 5180MHz

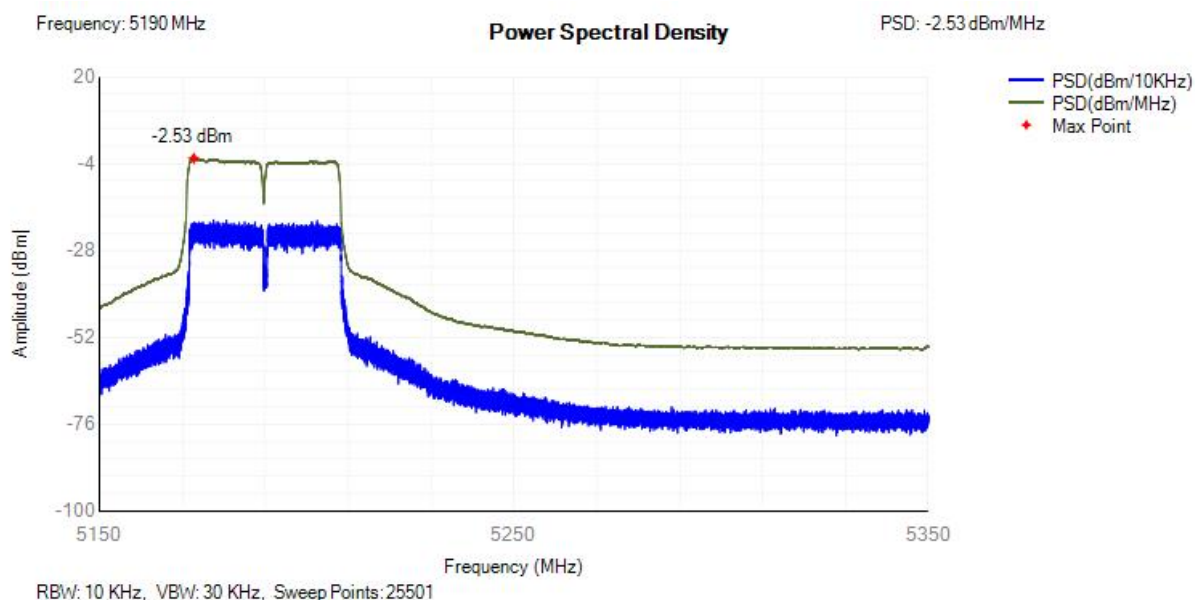




PSD NVNT ac20 5180MHz

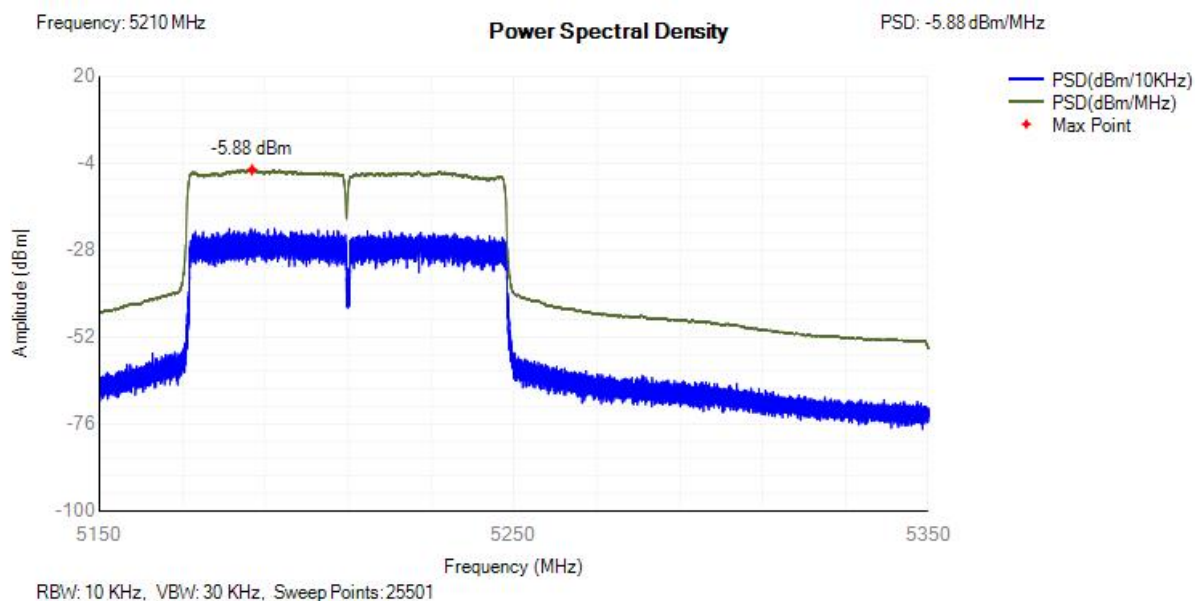


PSD NVNT ac40 5190MHz

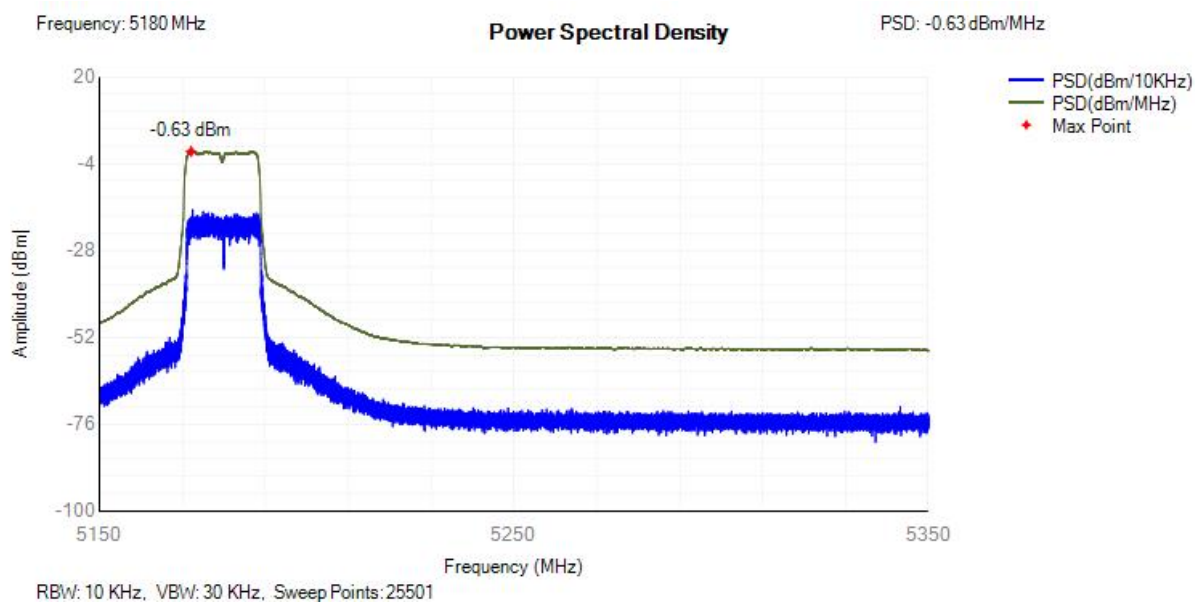




PSD NVNT ac80 5210MHz



PSD NVNT n20 5180MHz



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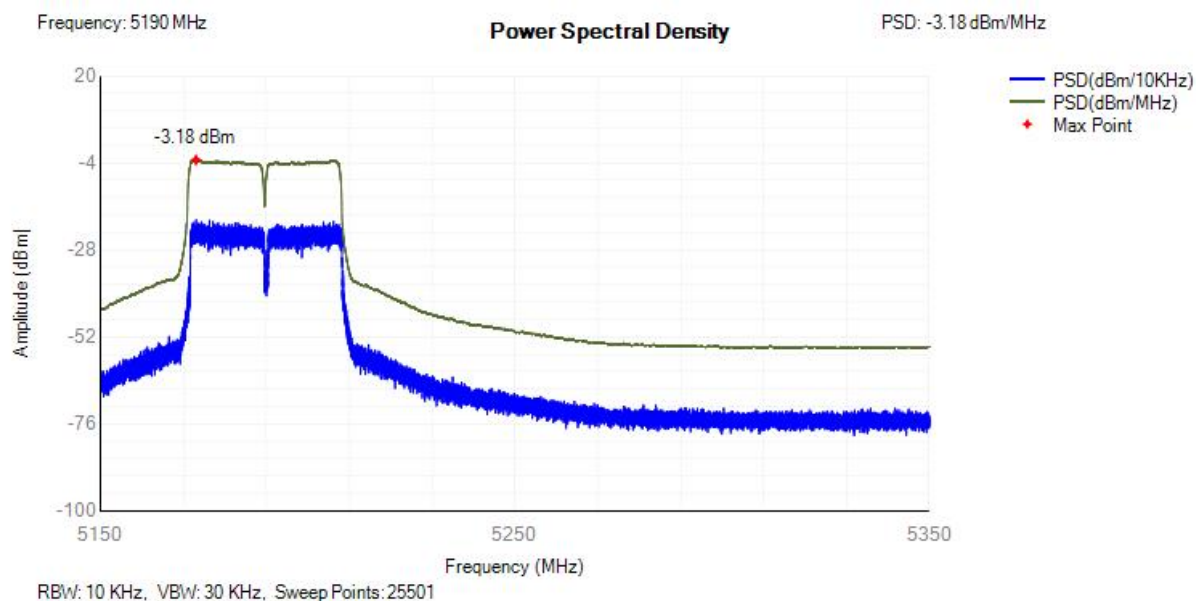
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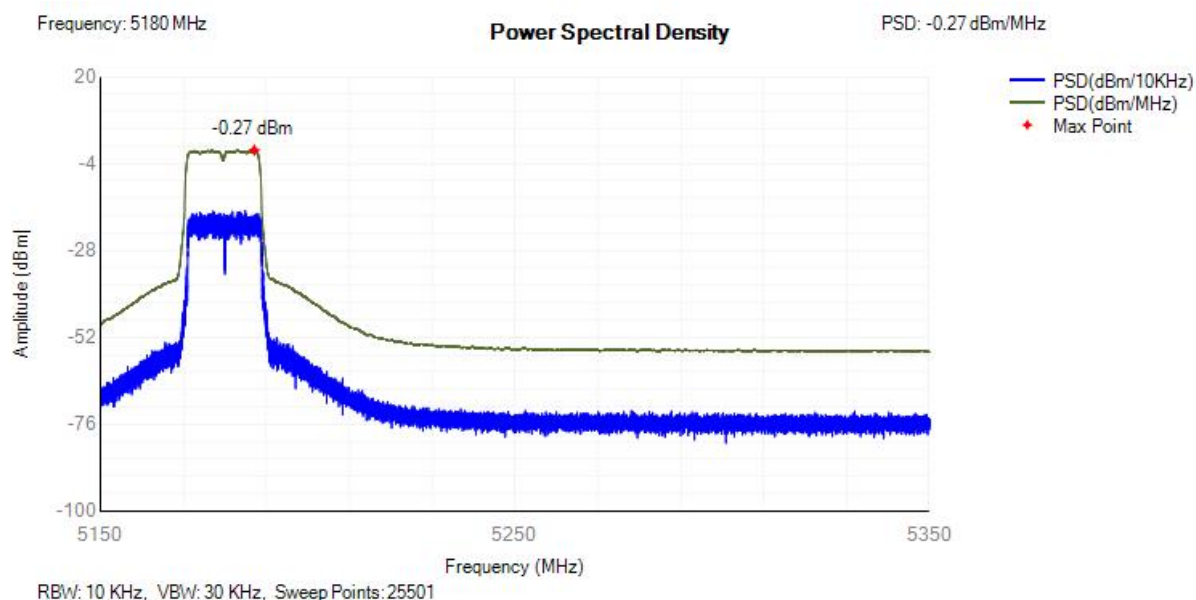
Scan code to check authenticity



PSD NVNT n40 5190MHz

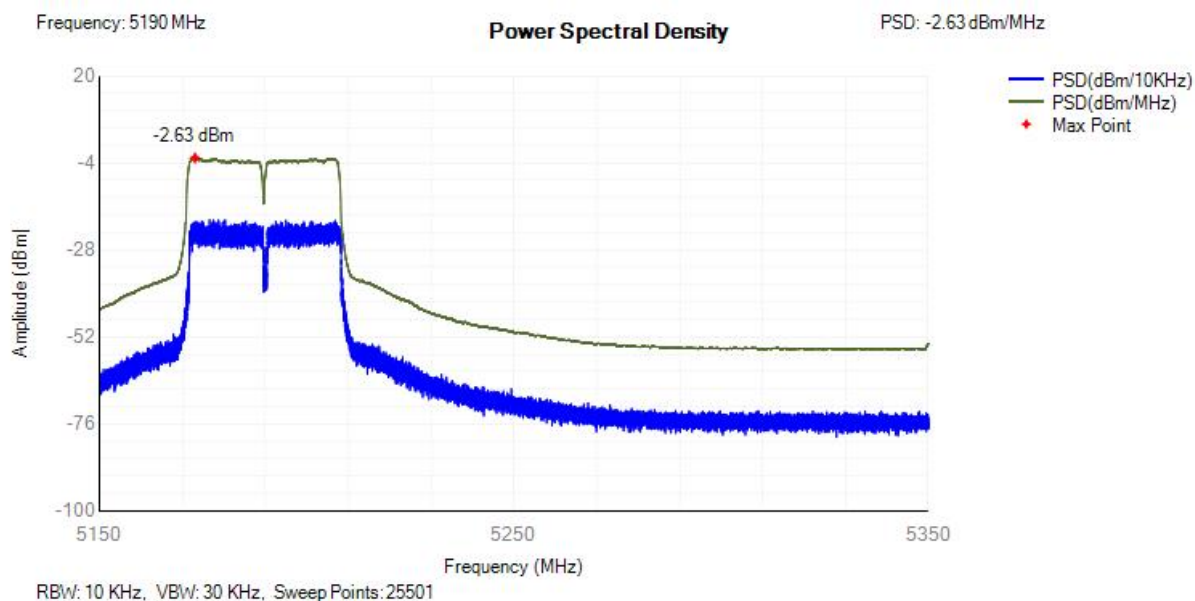


PSD NVNT ax20 5180MHz

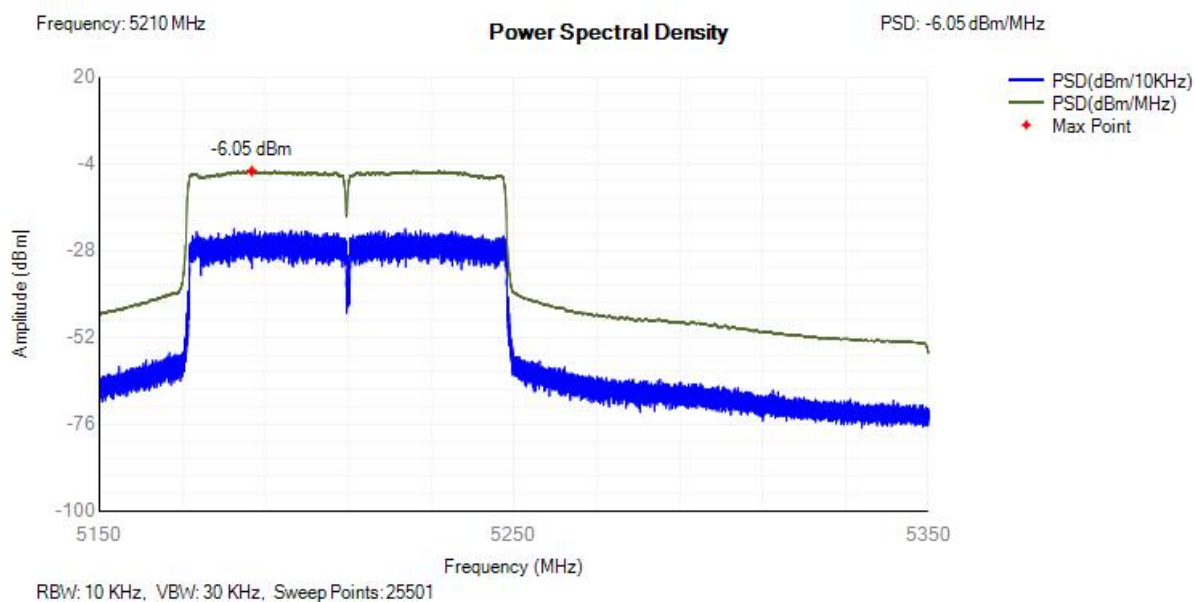




PSD NVNT ax40 5190MHz



PSD NVNT ax80 5210MHz



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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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H.5 Transmitter unwanted emissions in the spurious domain

The Worst Case: Ant6

The Worst Test Result For 802.11a					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
58.15	H	-84.93	-54.00	-30.93	PK
63.71	V	-74.89	-54.00	-20.89	PK
810.47	H	-77.94	-54.00	-23.94	PK
924.04	V	-76.32	-36.00	-40.32	PK
3490.13	H	-51.09	-30.00	-21.09	PK
3464.07	V	-61.46	-30.00	-31.46	PK
10360.08	H	-54.94	-30.00	-24.94	PK
10360.05	V	-52.24	-30.00	-22.24	PK

The Worst Test Result For 802.11n(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
55.94	H	-80.94	-54.00	-26.94	PK
65.66	V	-73.52	-54.00	-19.52	PK
809.55	H	-75.58	-54.00	-21.58	PK
924.72	V	-74.75	-36.00	-38.75	PK
3492.60	H	-49.85	-30.00	-19.85	PK
3454.94	V	-61.37	-30.00	-31.37	PK
10360.02	H	-52.93	-30.00	-22.93	PK
10360.05	V	-51.11	-30.00	-21.11	PK





The Worst Test Result For 802.11ac(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
57.60	H	-81.17	-54.00	-27.17	PK
63.86	V	-74.27	-54.00	-20.27	PK
807.06	H	-75.30	-54.00	-21.30	PK
925.15	V	-74.31	-36.00	-38.31	PK
3489.13	H	-48.92	-30.00	-18.92	PK
3463.59	V	-60.77	-30.00	-30.77	PK
10360.05	H	-52.54	-30.00	-22.54	PK
10360.06	V	-51.04	-30.00	-21.04	PK

The Worst Test Result For 802.11n(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
57.12	H	-82.70	-54.00	-28.70	PK
69.07	V	-73.73	-54.00	-19.73	PK
807.58	H	-76.24	-54.00	-22.24	PK
921.35	V	-73.75	-36.00	-37.75	PK
3454.02	H	-49.04	-30.00	-19.04	PK
3495.74	V	-60.28	-30.00	-30.28	PK
10380.06	H	-53.73	-30.00	-23.73	PK
10380.02	V	-50.73	-30.00	-20.73	PK





The Worst Test Result For 802.11ac(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
57.26	H	-83.47	-54.00	-29.47	PK
66.14	V	-72.80	-54.00	-18.80	PK
808.01	H	-75.92	-54.00	-21.92	PK
925.96	V	-73.97	-36.00	-37.97	PK
3478.98	H	-48.74	-30.00	-18.74	PK
3455.56	V	-59.87	-30.00	-29.87	PK
10380.00	H	-53.30	-30.00	-23.30	PK
10380.02	V	-51.08	-30.00	-21.08	PK

The Worst Test Result For 802.11ac(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42(5210MHz)					
60.44	H	-83.00	-54.00	-29.00	PK
68.90	V	-73.37	-54.00	-19.37	PK
807.19	H	-76.18	-54.00	-22.18	PK
921.98	V	-74.19	-36.00	-38.19	PK
3513.39	H	-49.18	-30.00	-19.18	PK
3495.98	V	-60.86	-30.00	-30.86	PK
10420.07	H	-53.65	-30.00	-23.65	PK
10420.07	V	-50.98	-30.00	-20.98	PK





The Worst Test Result For 802.11ax(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
58.80	H	-81.36	-54.00	-27.36	PK
64.75	V	-74.19	-54.00	-20.19	PK
807.44	H	-76.00	-54.00	-22.00	PK
926.65	V	-74.37	-36.00	-38.37	PK
3468.45	H	-49.68	-30.00	-19.68	PK
3500.59	V	-61.51	-30.00	-31.51	PK
10360.04	H	-53.26	-30.00	-23.26	PK
10360.05	V	-50.30	-30.00	-20.30	PK

The Worst Test Result For 802.11ax(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
57.59	H	-83.01	-54.00	-29.01	PK
65.55	V	-73.72	-54.00	-19.72	PK
809.84	H	-75.66	-54.00	-21.66	PK
923.49	V	-74.42	-36.00	-38.42	PK
3500.98	H	-48.98	-30.00	-18.98	PK
3481.20	V	-60.03	-30.00	-30.03	PK
10380.02	H	-53.76	-30.00	-23.76	PK
10380.10	V	-50.39	-30.00	-20.39	PK





The Worst Test Result For 802.11ac(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42(5210MHz)					
59.20	H	-82.81	-54.00	-28.81	PK
68.91	V	-73.69	-54.00	-19.69	PK
807.92	H	-76.59	-54.00	-22.59	PK
921.91	V	-73.78	-36.00	-37.78	PK
3477.27	H	-49.69	-30.00	-19.69	PK
3499.92	V	-61.09	-30.00	-31.09	PK
10420.00	H	-53.75	-30.00	-23.75	PK
10420.10	V	-51.00	-30.00	-21.00	PK

Note: All test modes were tested, but we only recorded the worst case in this report. (Low Channel)





H.6 Transmitter unwanted emissions within the 5 GHz RLAN bands

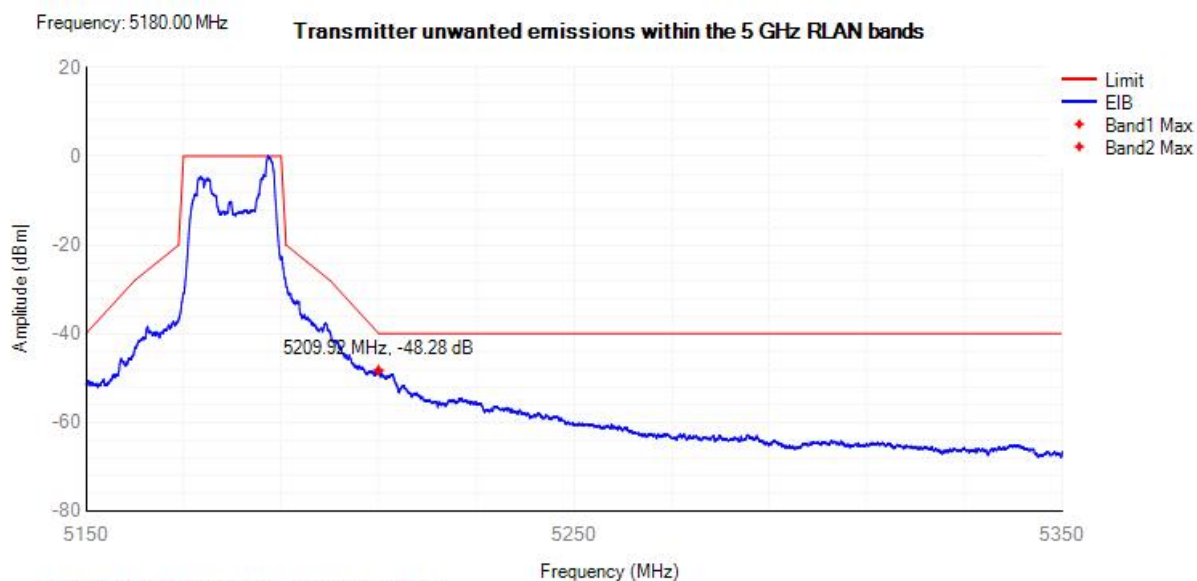
Ant6:

Condition	Mode	Frequency (MHz)	Sub Band	Worst EIB Frequency (MHz)	Level (dB)	Limit (dB)	Verdict
NVNT	a	5180	Band1	5209.92	-48.28	-39.9	Pass
NVNT	a	5180	Band2	5652.68	-65.27	-47	Pass
NVNT	ac20	5180	Band1	5150	-46.19	-40	Pass
NVNT	ac20	5180	Band2	5652.22	-62.73	-47	Pass
NVNT	ac40	5190	Band1	5254.08	-48.12	-40	Pass
NVNT	ac40	5190	Band2	5652.47	-55.87	-47	Pass
NVNT	ac80	5210	Band1	5337.84	-46.29	-40	Pass
NVNT	ac80	5210	Band2	5477.59	-55.84	-40	Pass
NVNT	n20	5180	Band1	5212.04	-47.89	-40	Pass
NVNT	n20	5180	Band2	5652.32	-65.02	-47	Pass
NVNT	n40	5190	Band1	5248.92	-45.55	-39.35	Pass
NVNT	n40	5190	Band2	5652.78	-56.61	-47	Pass
NVNT	ax20	5180	Band1	5150.04	-49.9	-39.95	Pass
NVNT	ax20	5180	Band2	5652.37	-67.07	-47	Pass
NVNT	ax40	5190	Band1	5249	-47.16	-39.4	Pass
NVNT	ax40	5190	Band2	5652.98	-60.69	-47	Pass
NVNT	ax80	5210	Band1	5332.28	-52.79	-40	Pass
NVNT	ax80	5210	Band2	5480.86	-65.69	-40	Pass

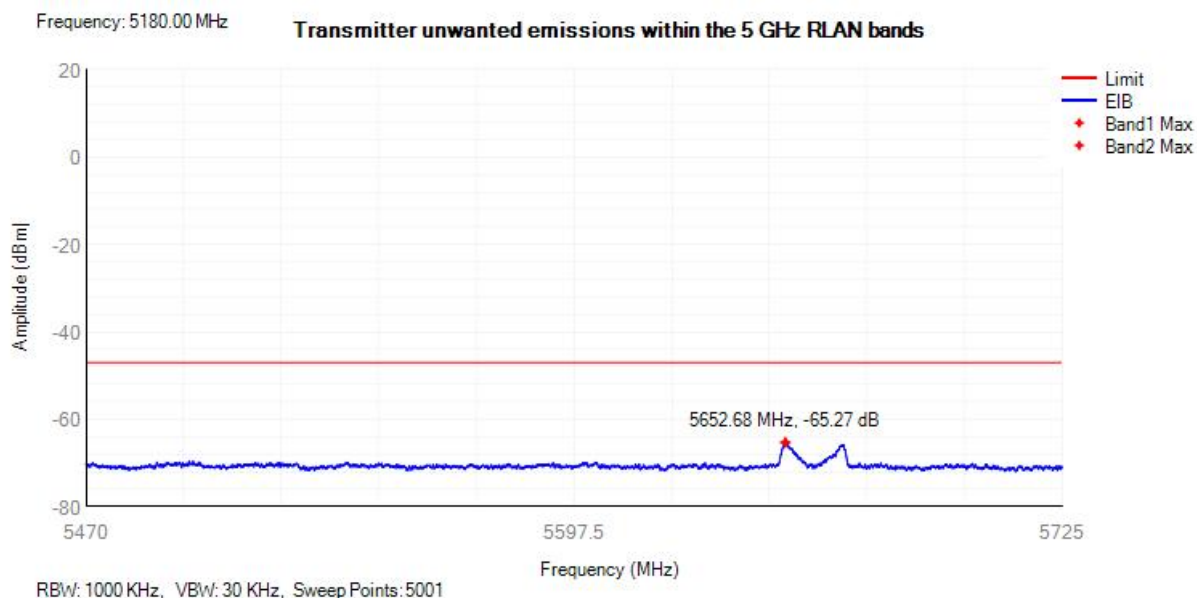




Tx. Emissions EIB NVNT a 5180MHz Sub Band1

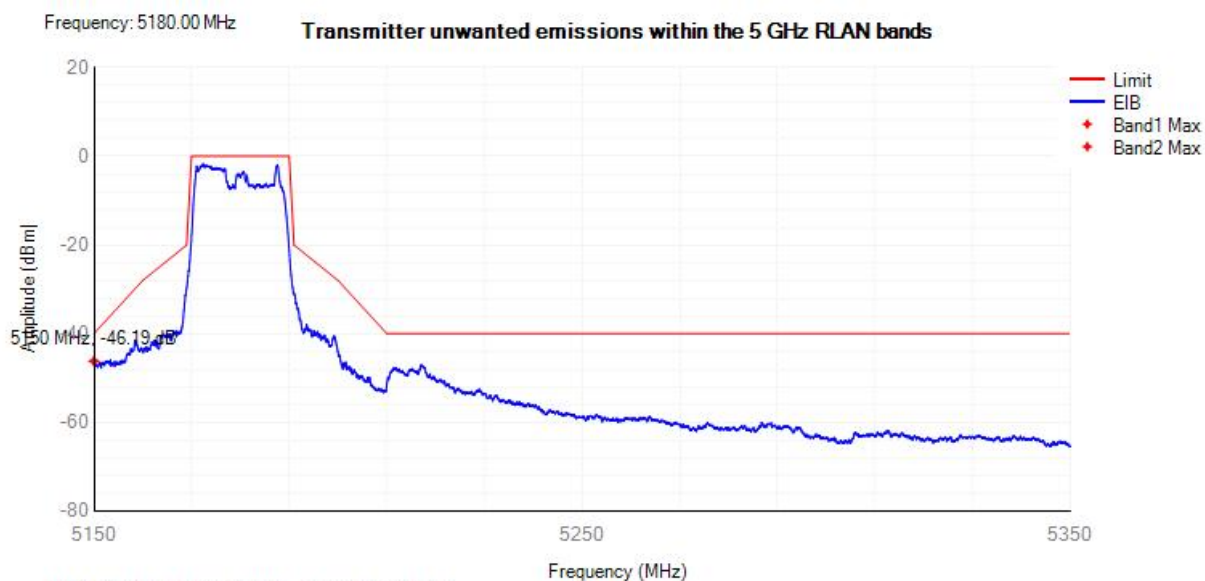


Tx. Emissions EIB NVNT a 5180MHz Sub Band2

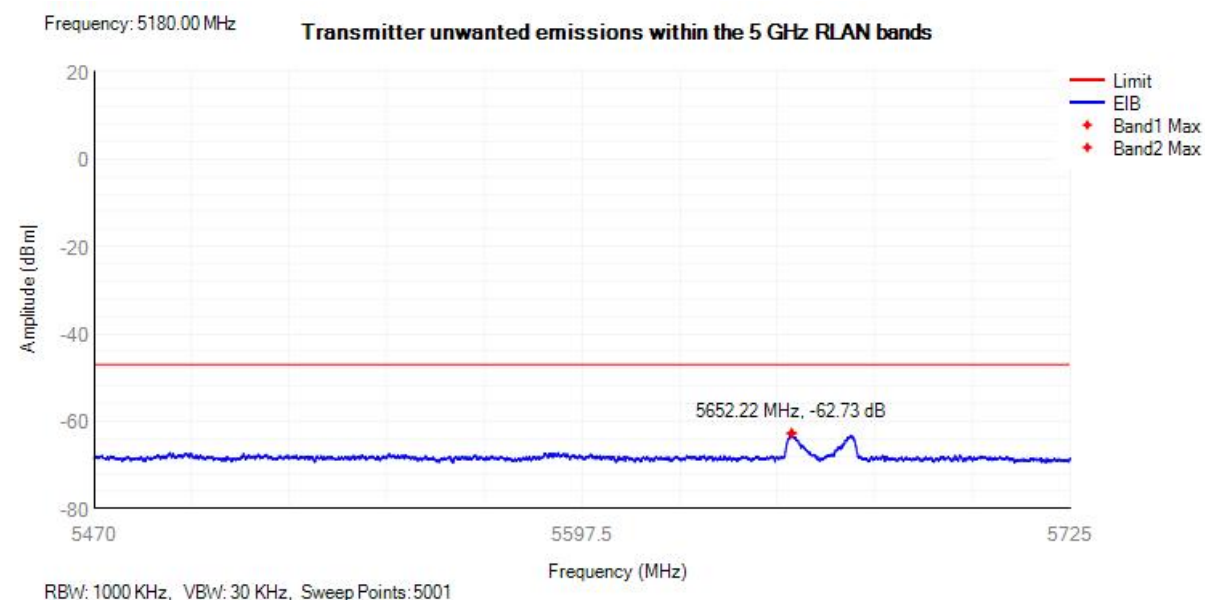




Tx. Emissions EIB NVNT ac20 5180MHz Sub Band1

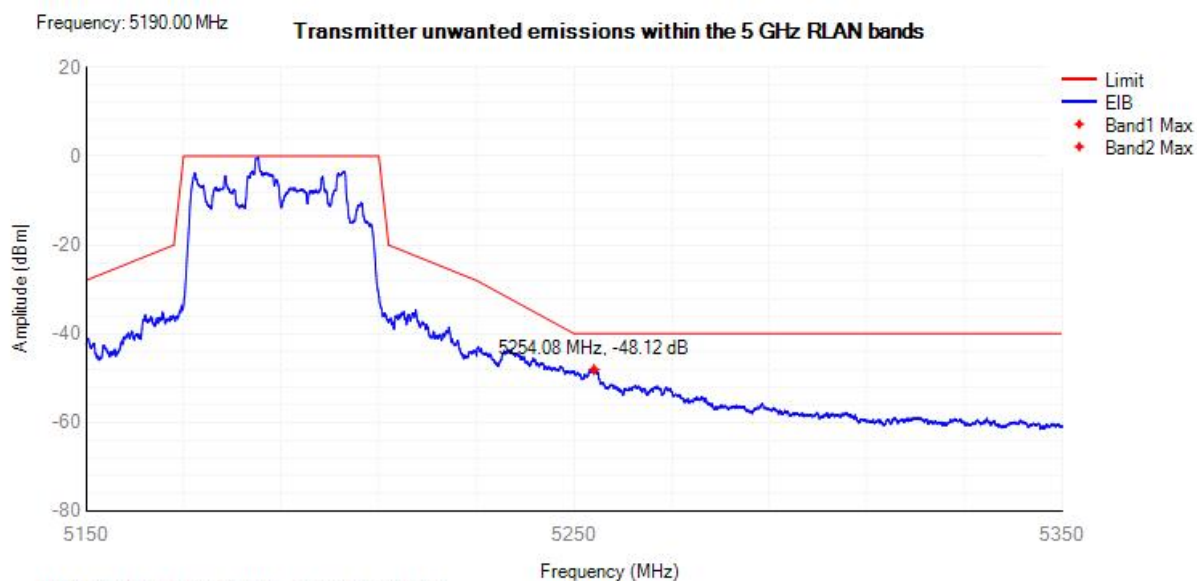


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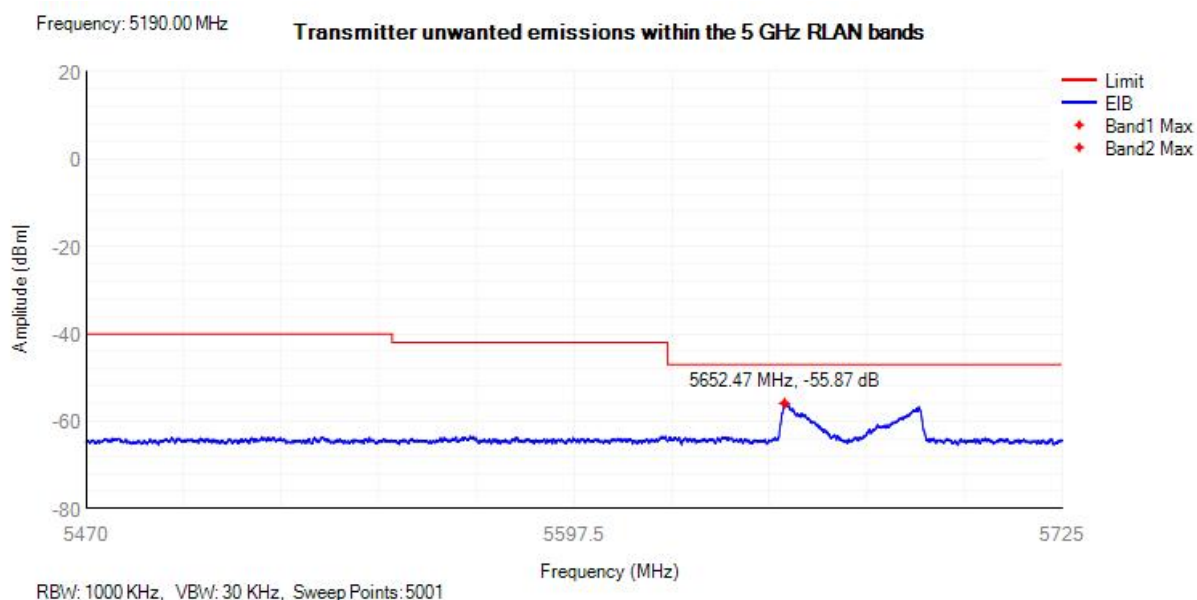




Tx. Emissions EIB NVNT ac40 5190MHz Sub Band1

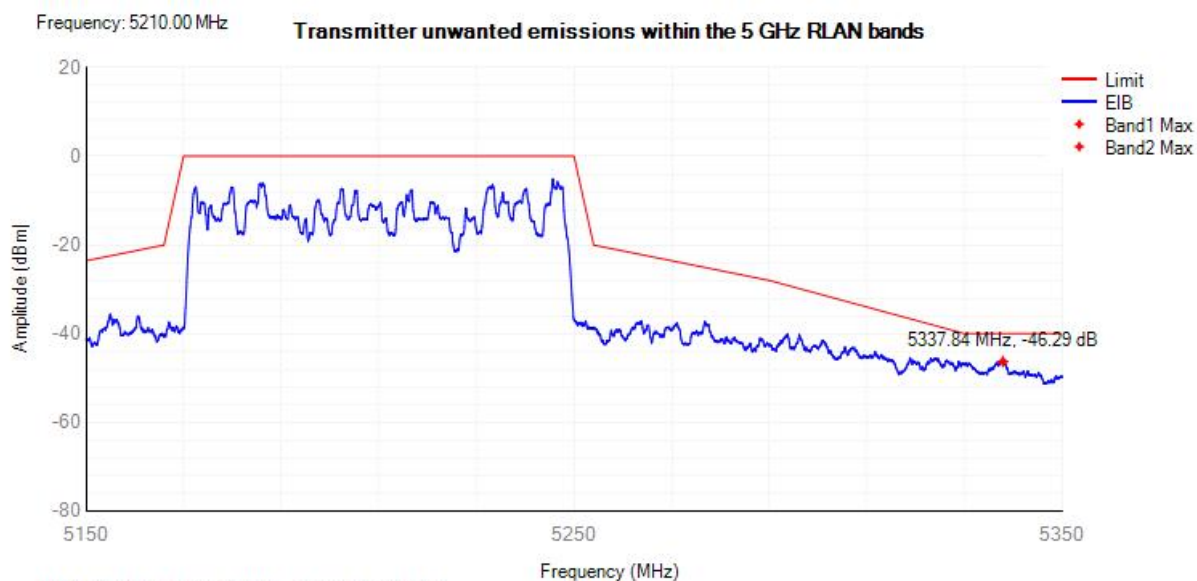


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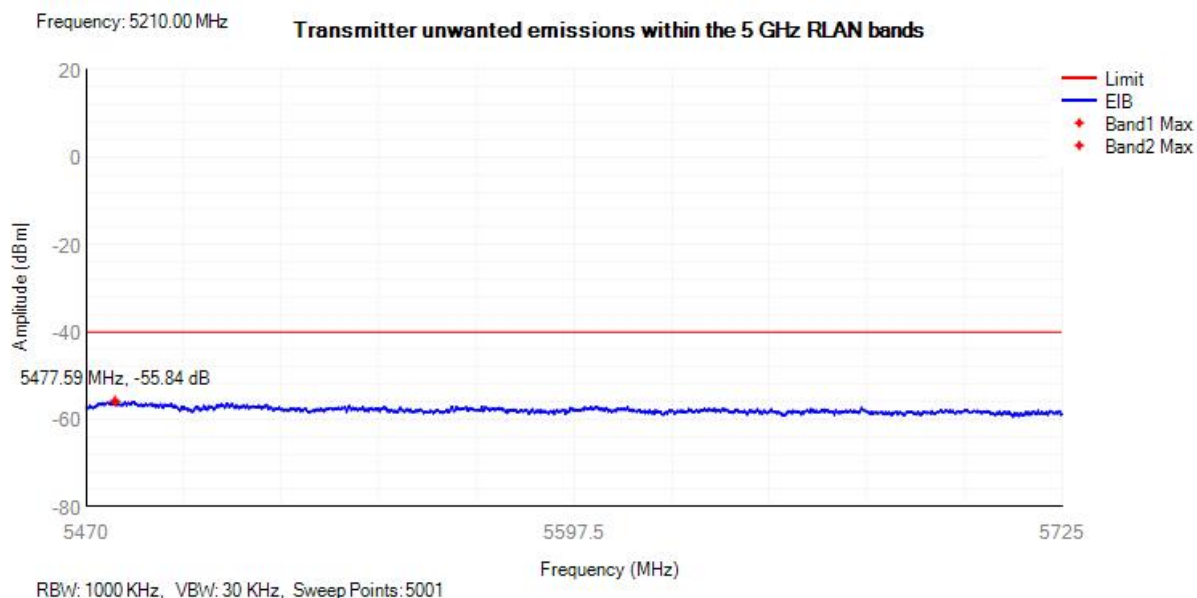




Tx. Emissions EIB NVNT ac80 5210MHz Sub Band1

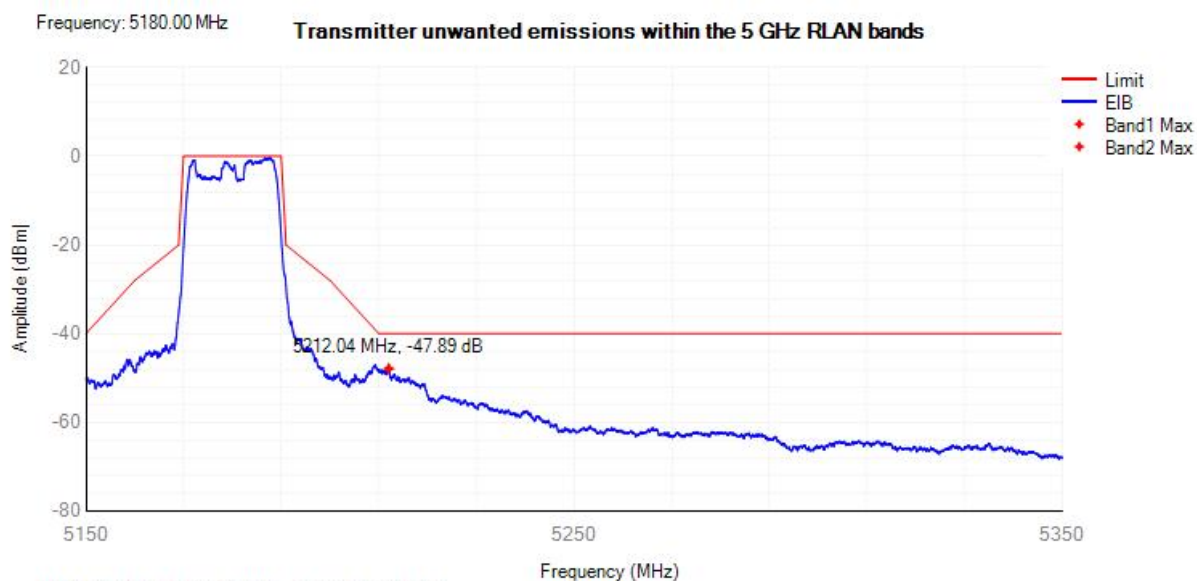


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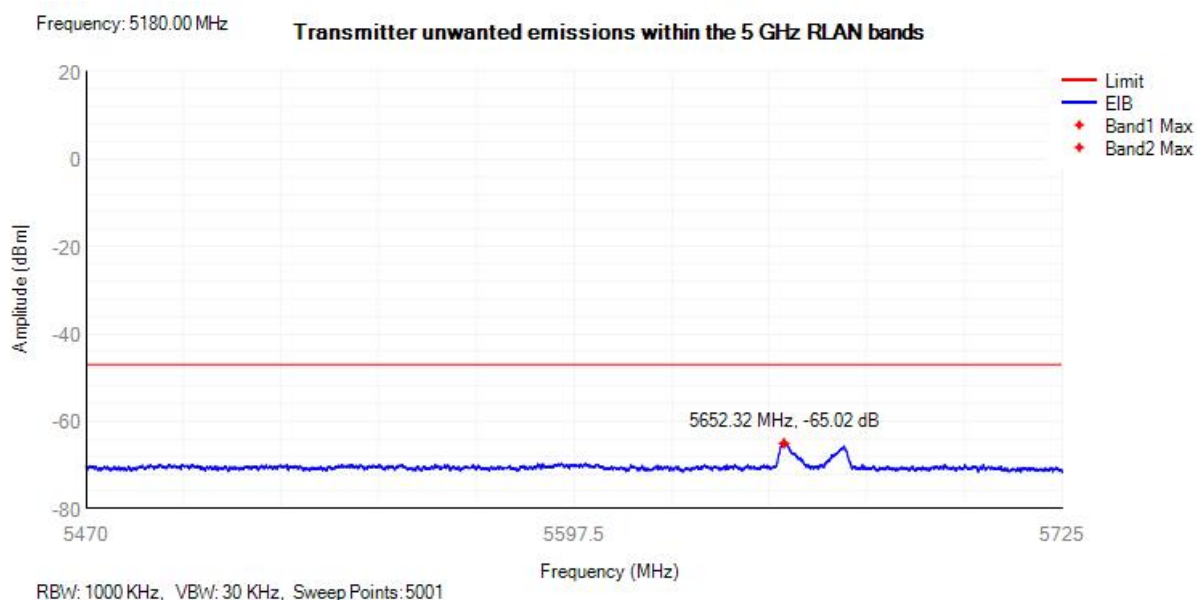




Tx. Emissions EIB NVNT n20 5180MHz Sub Band1

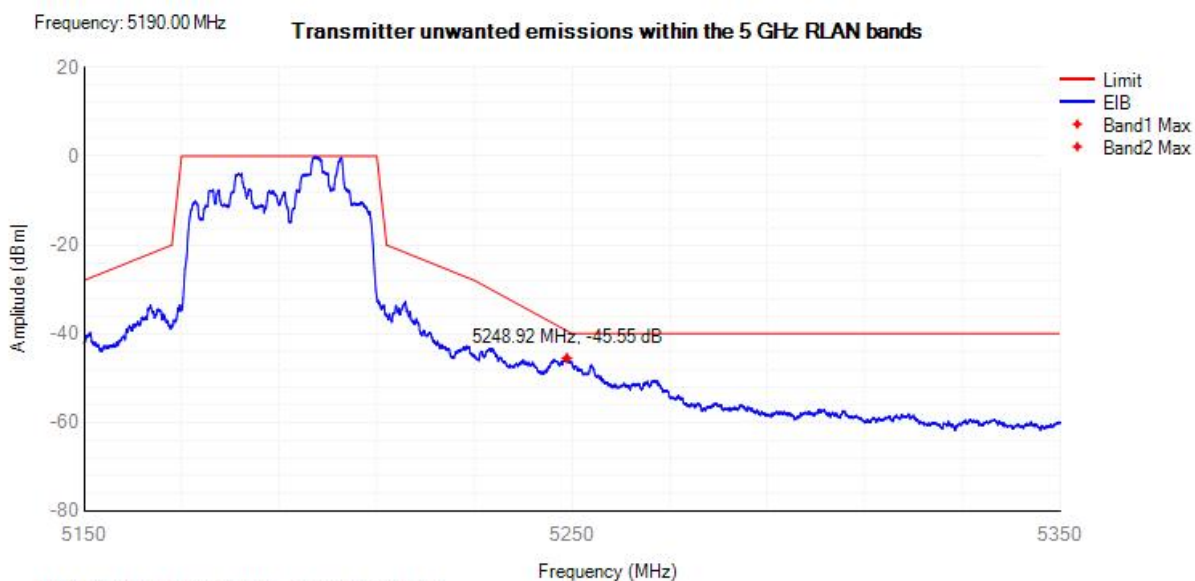


Tx. Emissions EIB NVNT n20 5180MHz Sub Band2

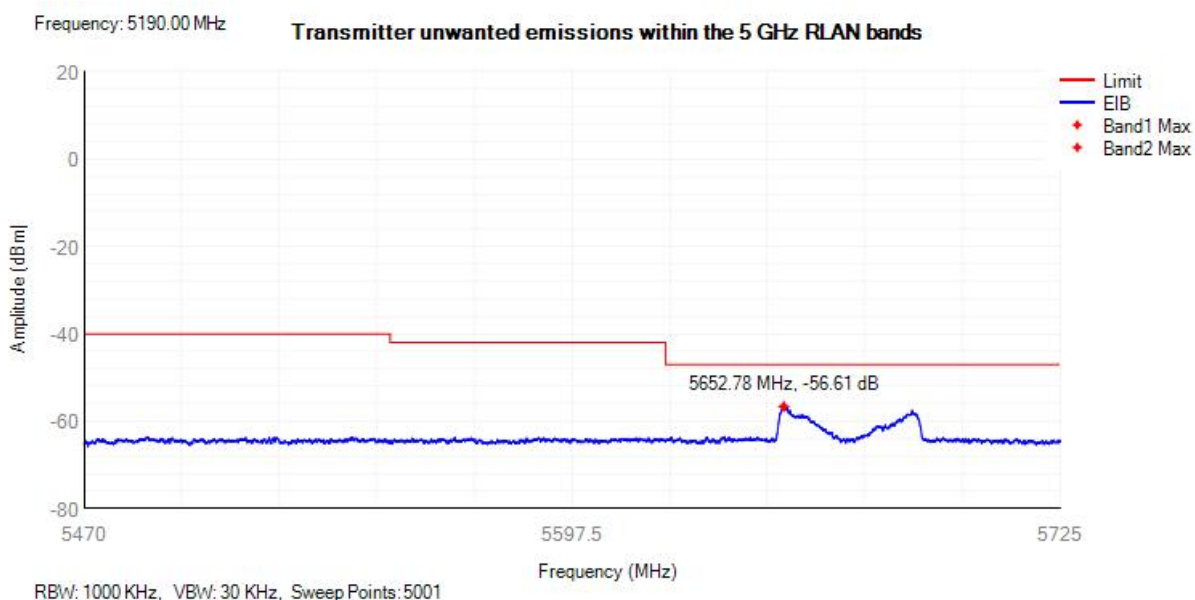




Tx. Emissions EIB NVNT n40 5190MHz Sub Band1



Tx. Emissions EIB NVNT n40 5190MHz Sub Band2



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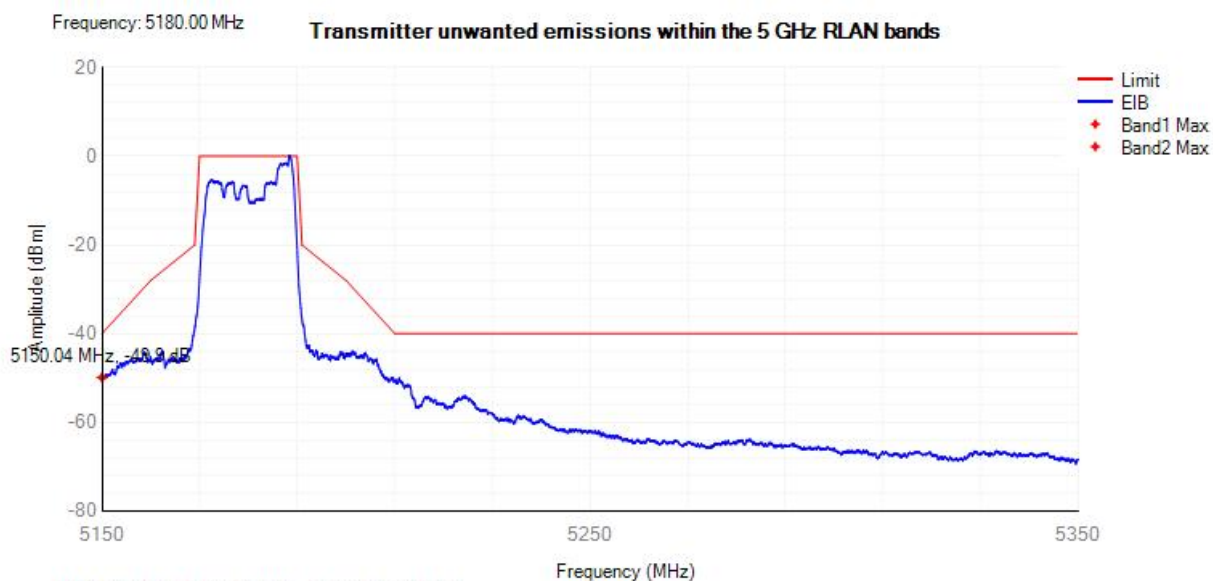
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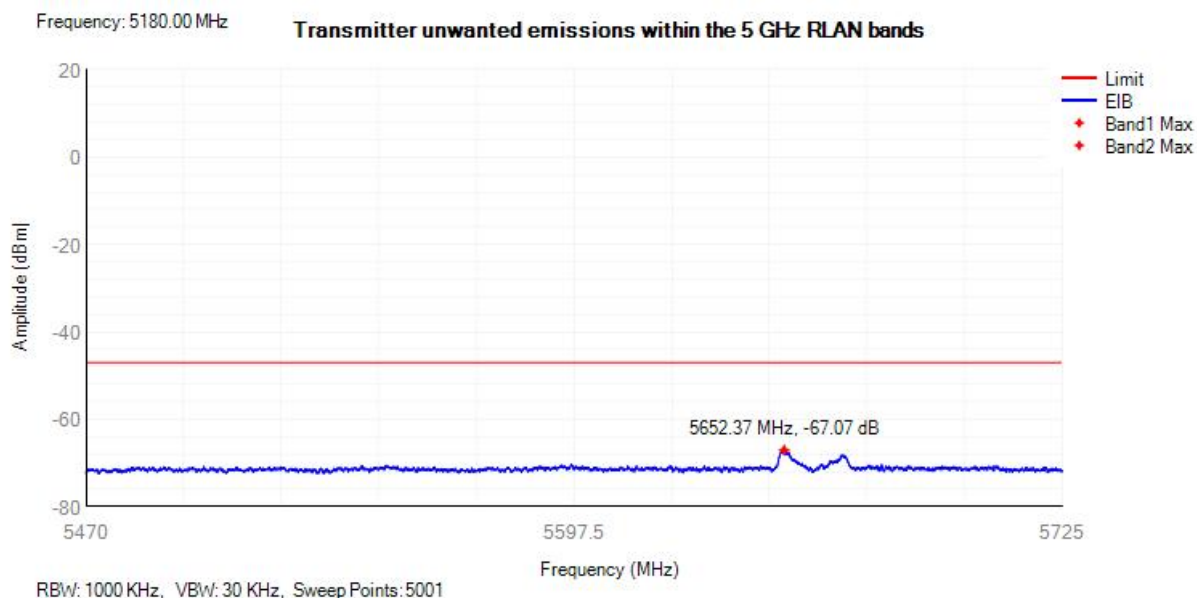
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Tx. Emissions EIB NVNT ax20 5180MHz Sub Band1

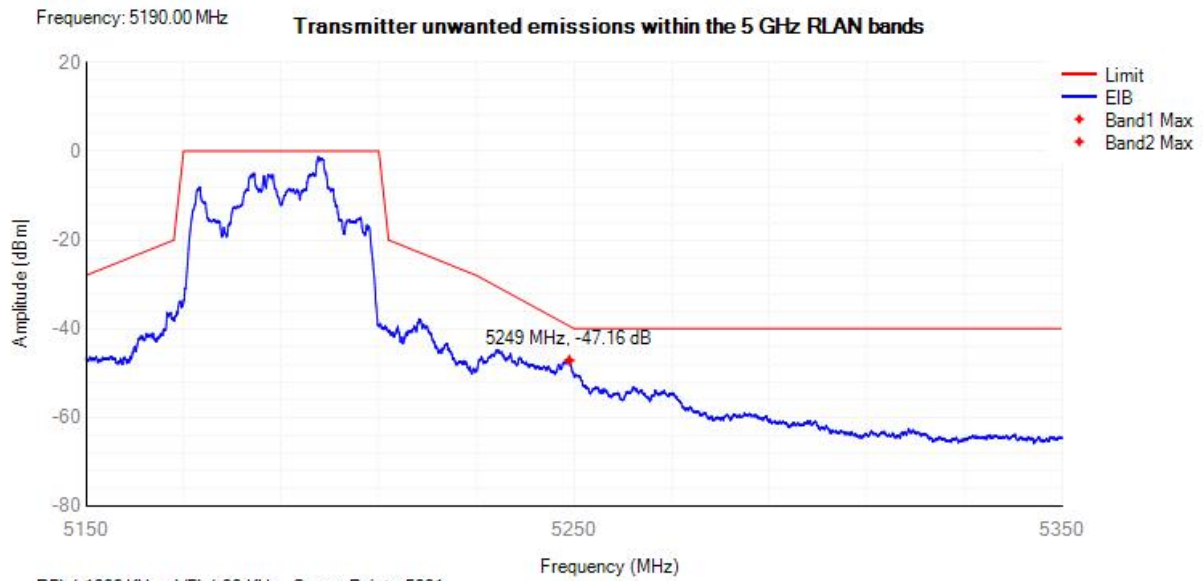


Tx. Emissions EIB NVNT ax20 5180MHz Sub Band2

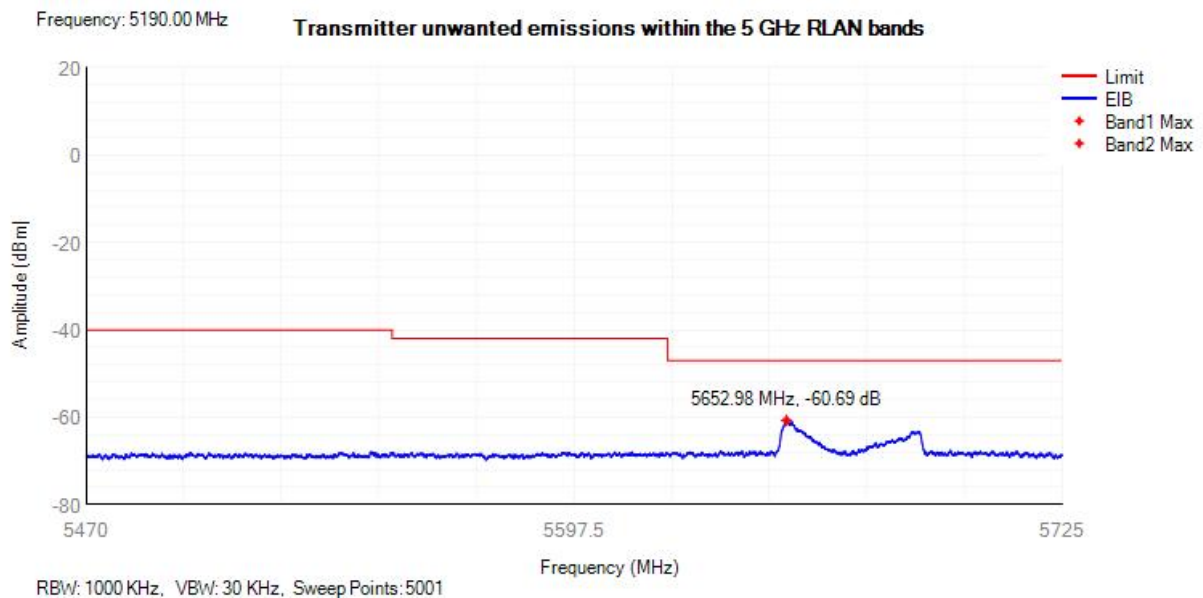




Tx. Emissions EIB NVNT ax40 5190MHz Sub Band1

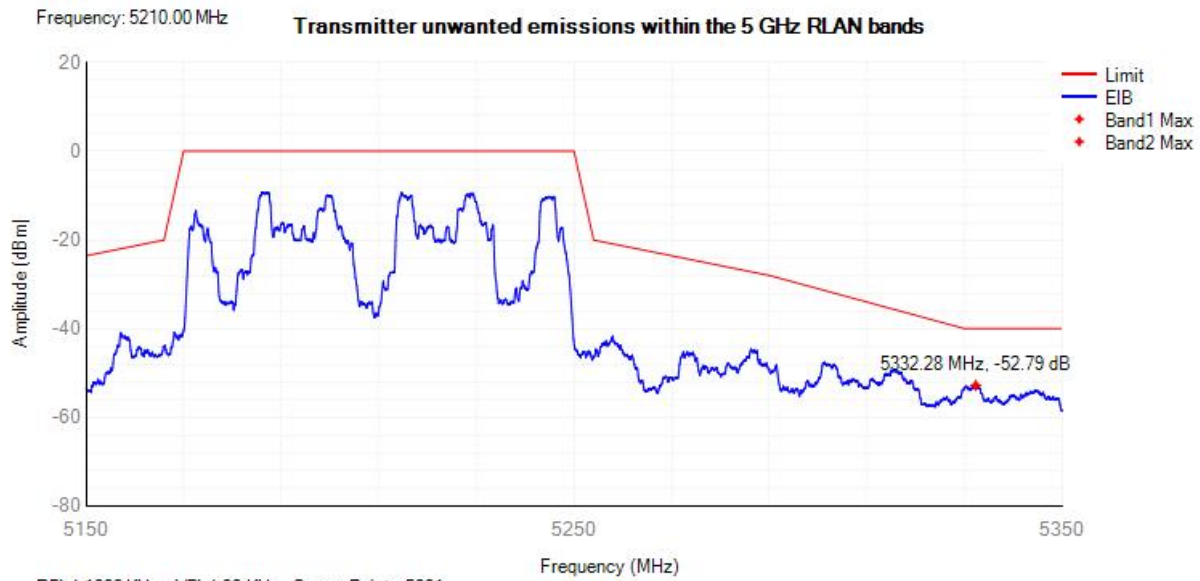


Tx. Emissions EIB NVNT ax40 5190MHz Sub Band2

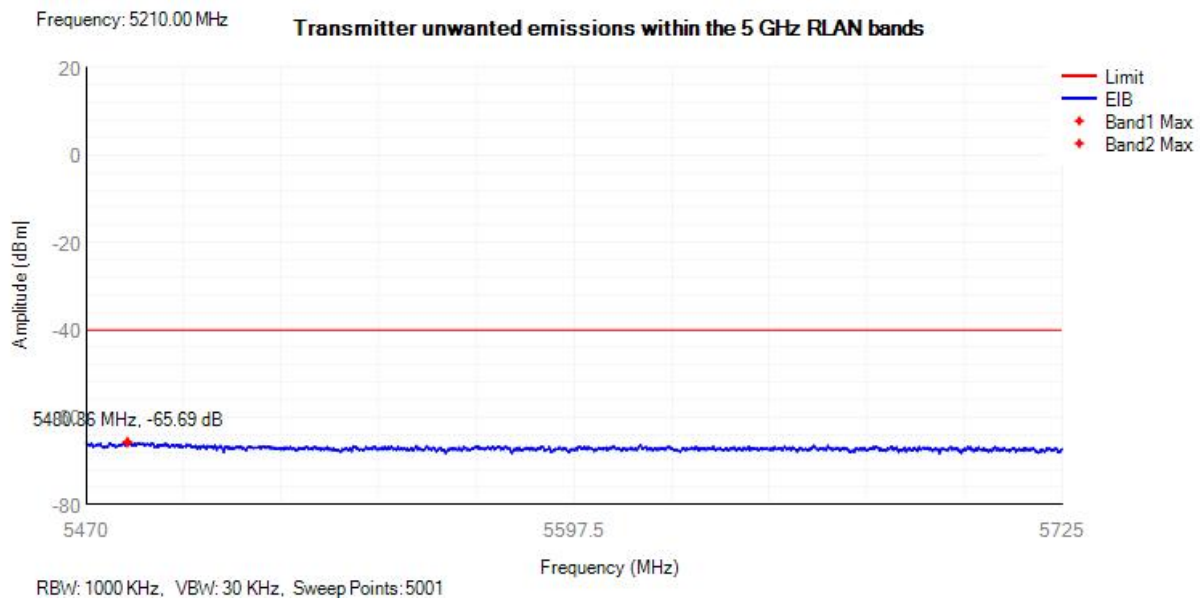




Tx. Emissions EIB NVNT ax80 5210MHz Sub Band1



Tx. Emissions EIB NVNT ax80 5210MHz Sub Band2

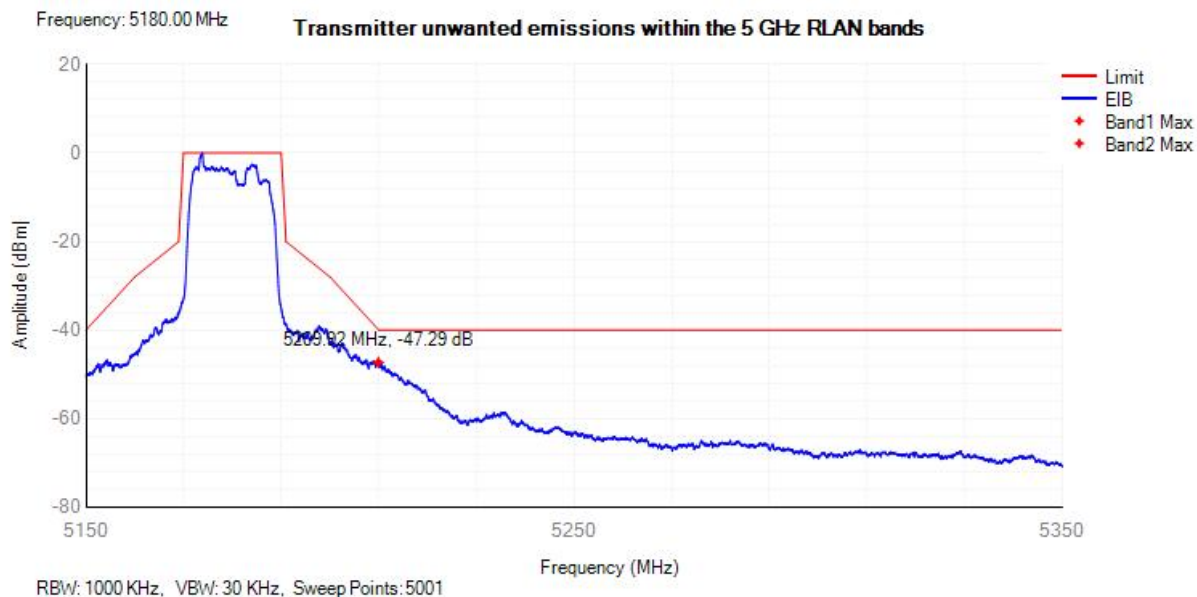




Ant7:

Condition	Mode	Frequency (MHz)	Sub Band	Worst EIB Frequency (MHz)	Level (dB)	Limit (dB)	Verdict
NVNT	a	5180	Band1	5209.92	-47.29	-39.9	Pass
NVNT	a	5180	Band2	5667.31	-69.17	-47	Pass
NVNT	ac20	5180	Band1	5209.59	-48.9	-39.51	Pass
NVNT	ac20	5180	Band2	5652.32	-68.75	-47	Pass
NVNT	ac40	5190	Band1	5250.92	-48.34	-40	Pass
NVNT	ac40	5190	Band2	5653.34	-59.91	-47	Pass
NVNT	ac80	5210	Band1	5328.16	-43.4	-39.44	Pass
NVNT	ac80	5210	Band2	5658.24	-56.05	-40	Pass
NVNT	n20	5180	Band1	5209.96	-52.3	-39.95	Pass
NVNT	n20	5180	Band2	5652.52	-69.6	-47	Pass
NVNT	n40	5190	Band1	5253.12	-50.32	-40	Pass
NVNT	n40	5190	Band2	5653.39	-63	-47	Pass
NVNT	ax20	5180	Band1	5150.08	-50.15	-39.9	Pass
NVNT	ax20	5180	Band2	5652.17	-68.57	-47	Pass
NVNT	ax40	5190	Band1	5247.04	-44.76	-38.22	Pass
NVNT	ax40	5190	Band2	5653.44	-60.71	-47	Pass
NVNT	ax80	5210	Band1	5329.16	-47.54	-39.74	Pass
NVNT	ax80	5210	Band2	5488.25	-59.66	-40	Pass

Tx. Emissions EIB NVNT a 5180MHz Sub Band1



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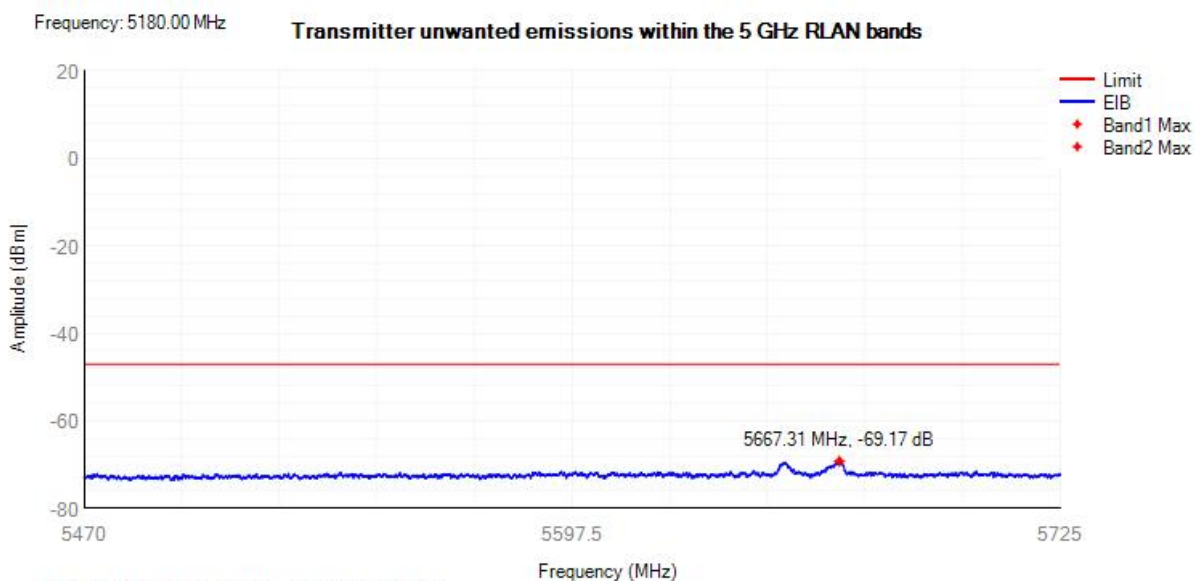
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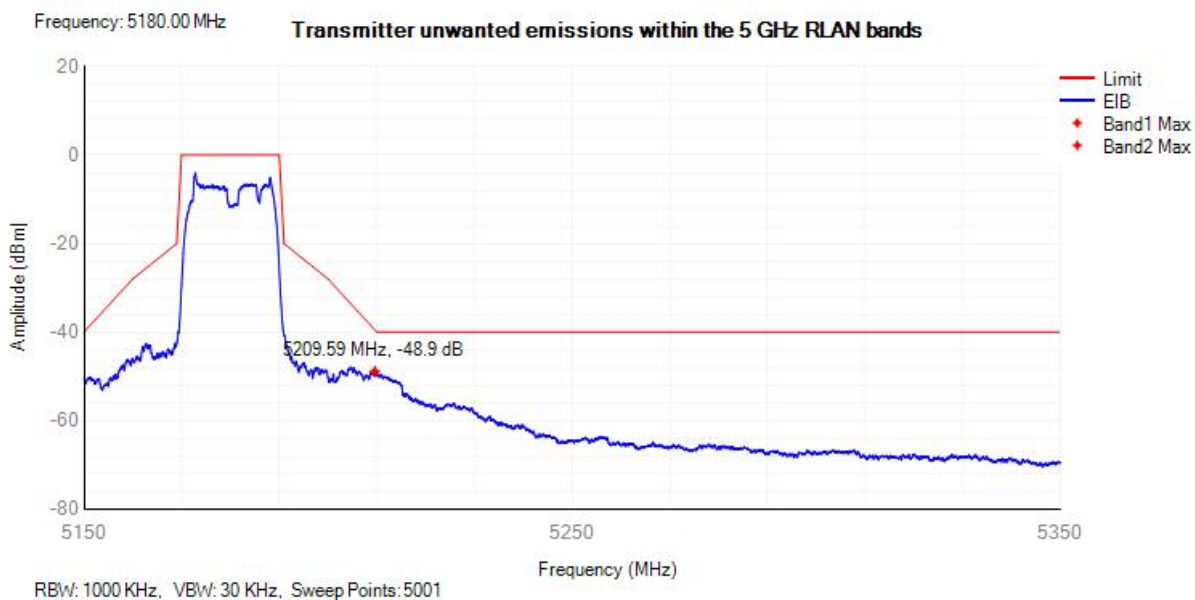
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Tx. Emissions EIB NVNT a 5180MHz Sub Band2



Tx. Emissions EIB NVNT ac20 5180MHz Sub Band1

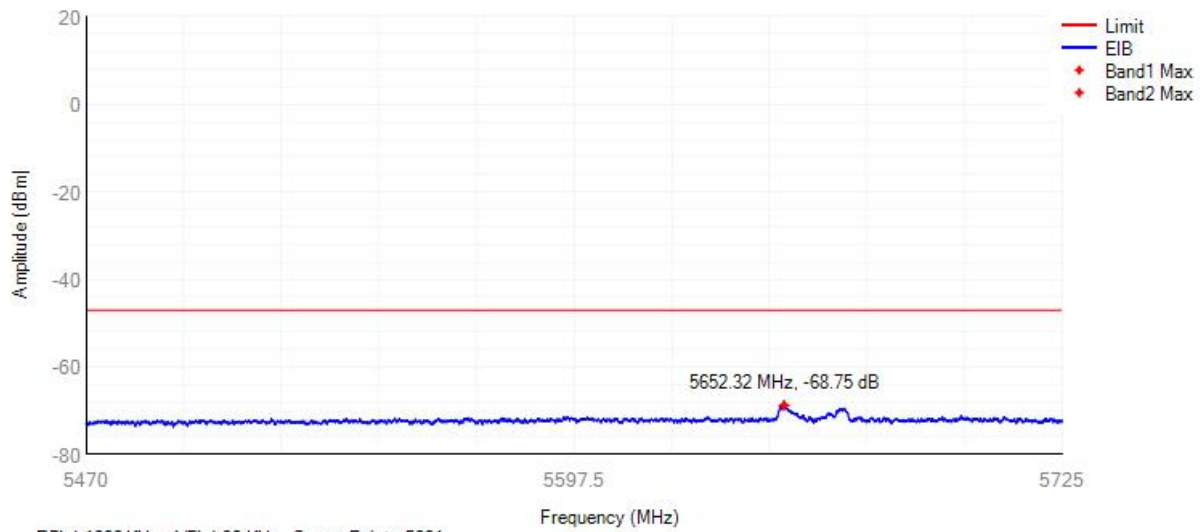




Tx. Emissions EIB NVNT ac20 5180MHz Sub Band2

Frequency: 5180.00 MHz

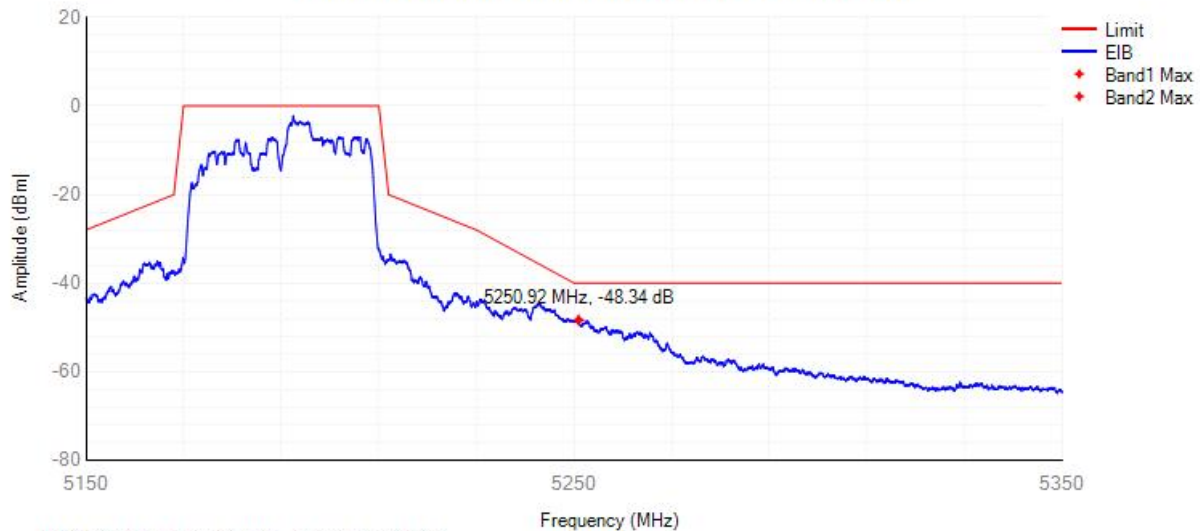
Transmitter unwanted emissions within the 5 GHz RLAN bands



Tx. Emissions EIB NVNT ac40 5190MHz Sub Band1

Frequency: 5190.00 MHz

Transmitter unwanted emissions within the 5 GHz RLAN bands

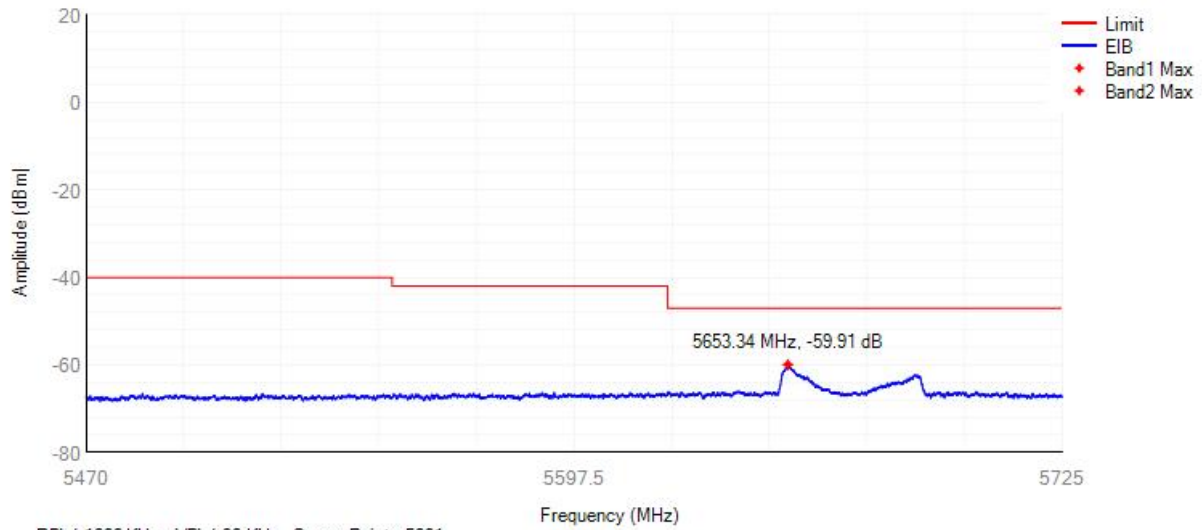




Tx. Emissions EIB NVNT ac40 5190MHz Sub Band2

Frequency: 5190.00 MHz

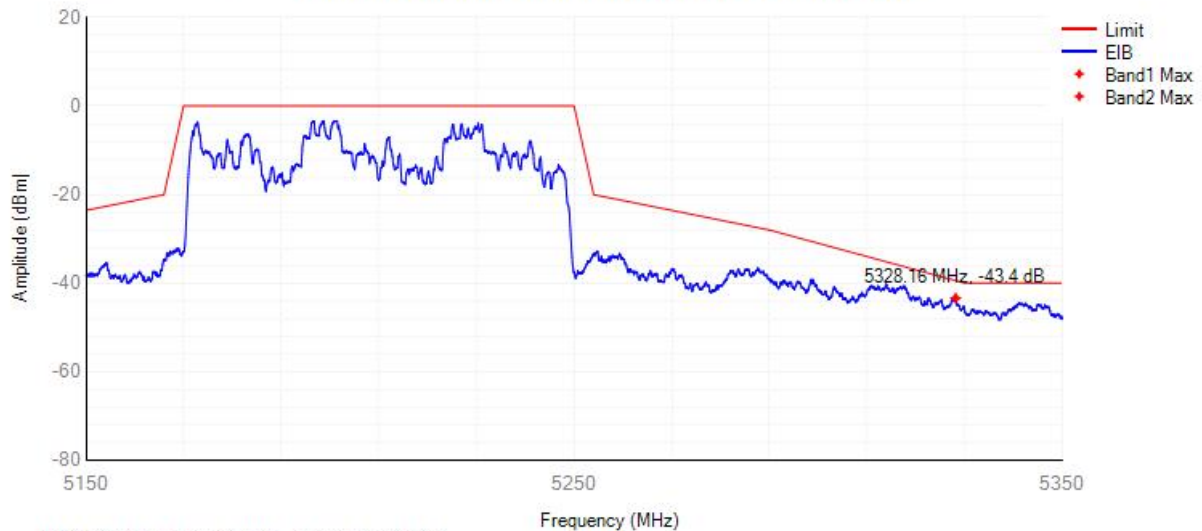
Transmitter unwanted emissions within the 5 GHz RLAN bands



Tx. Emissions EIB NVNT ac80 5210MHz Sub Band1

Frequency: 5210.00 MHz

Transmitter unwanted emissions within the 5 GHz RLAN bands

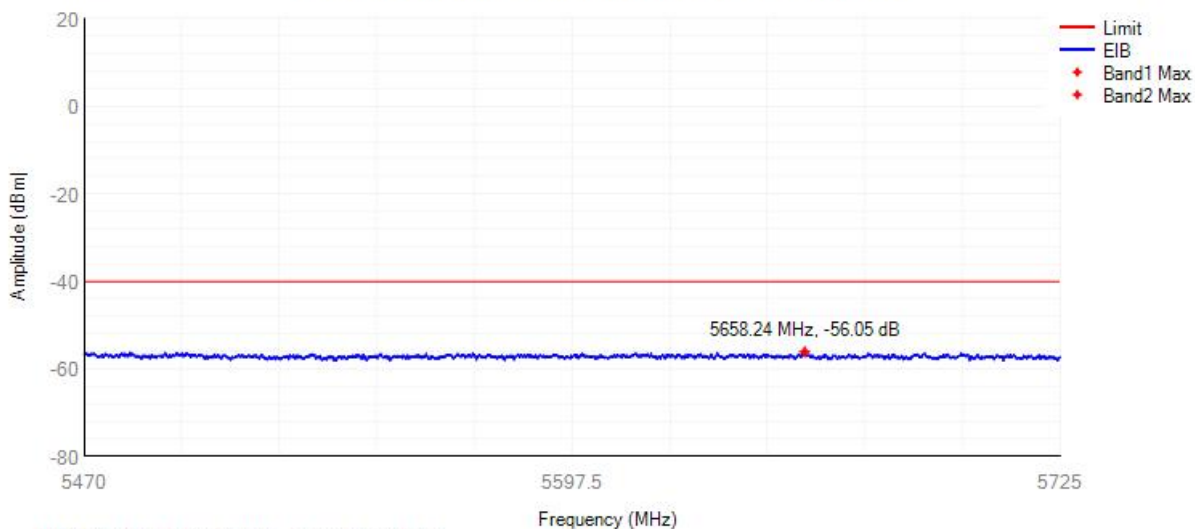




Tx. Emissions EIB NVNT ac80 5210MHz Sub Band2

Frequency: 5210.00 MHz

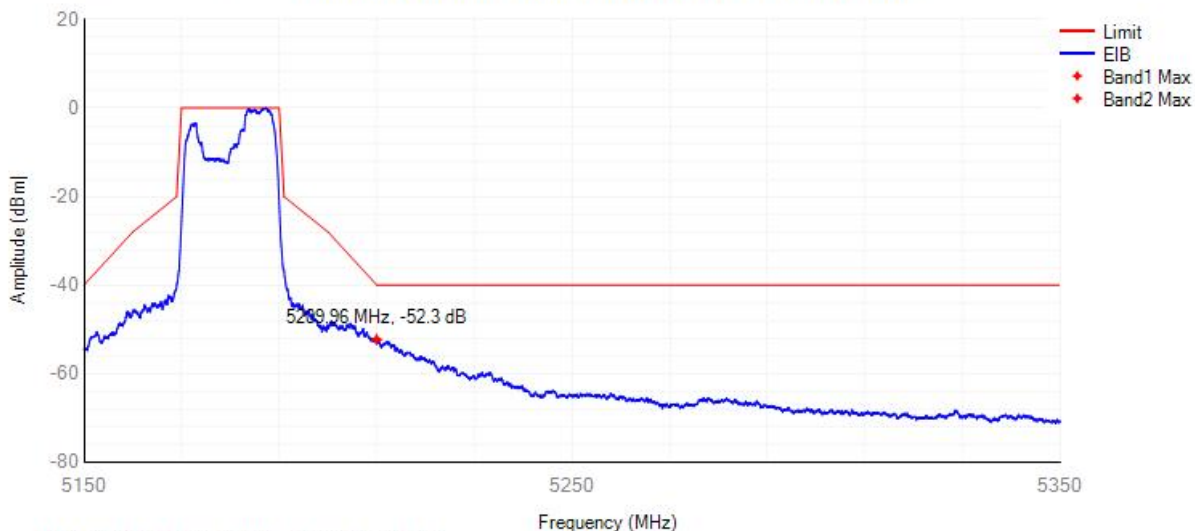
Transmitter unwanted emissions within the 5 GHz RLAN bands



Tx. Emissions EIB NVNT n20 5180MHz Sub Band1

Frequency: 5180.00 MHz

Transmitter unwanted emissions within the 5 GHz RLAN bands



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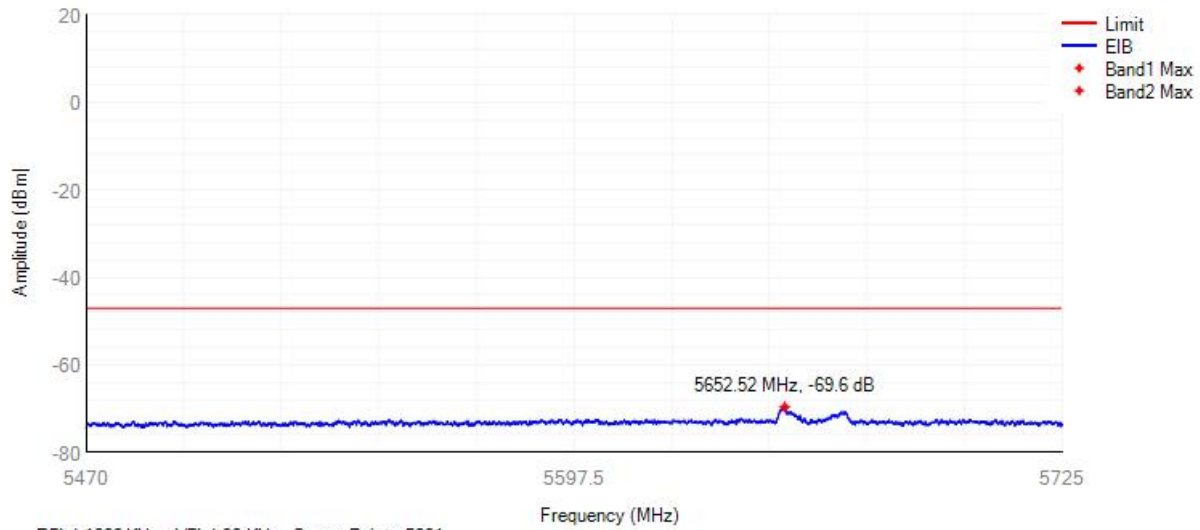
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Tx. Emissions EIB NVNT n20 5180MHz Sub Band2

Frequency: 5180.00 MHz

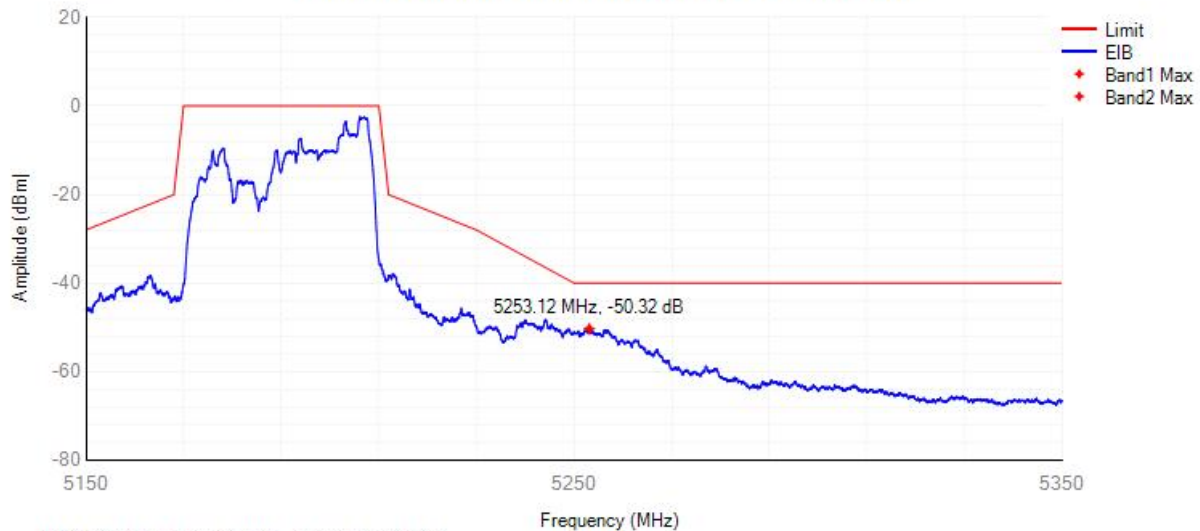
Transmitter unwanted emissions within the 5 GHz RLAN bands



Tx. Emissions EIB NVNT n40 5190MHz Sub Band1

Frequency: 5190.00 MHz

Transmitter unwanted emissions within the 5 GHz RLAN bands



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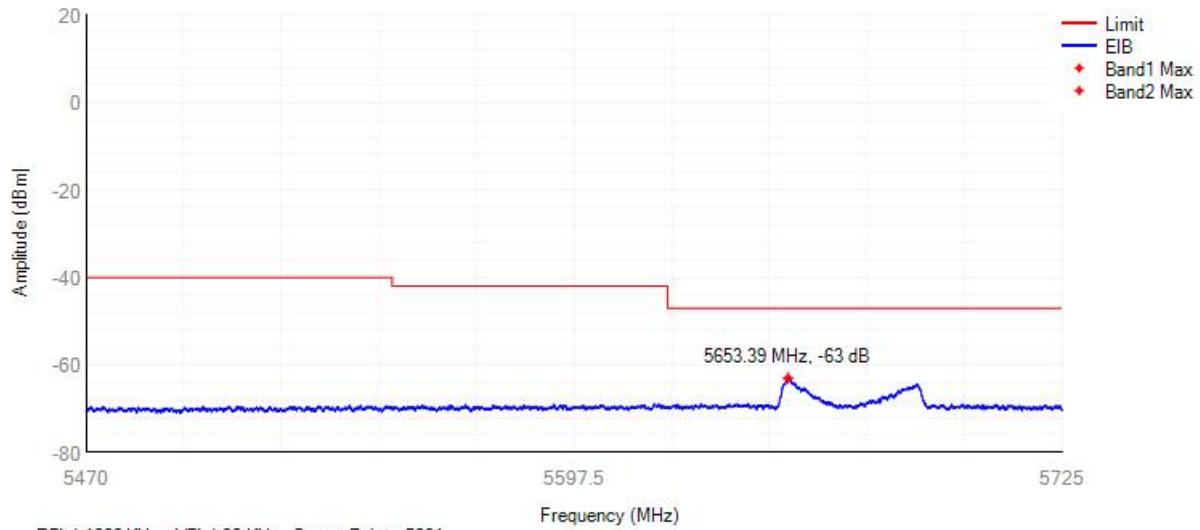
Scan code to check authenticity



Tx. Emissions EIB NVNT n40 5190MHz Sub Band2

Frequency: 5190.00 MHz

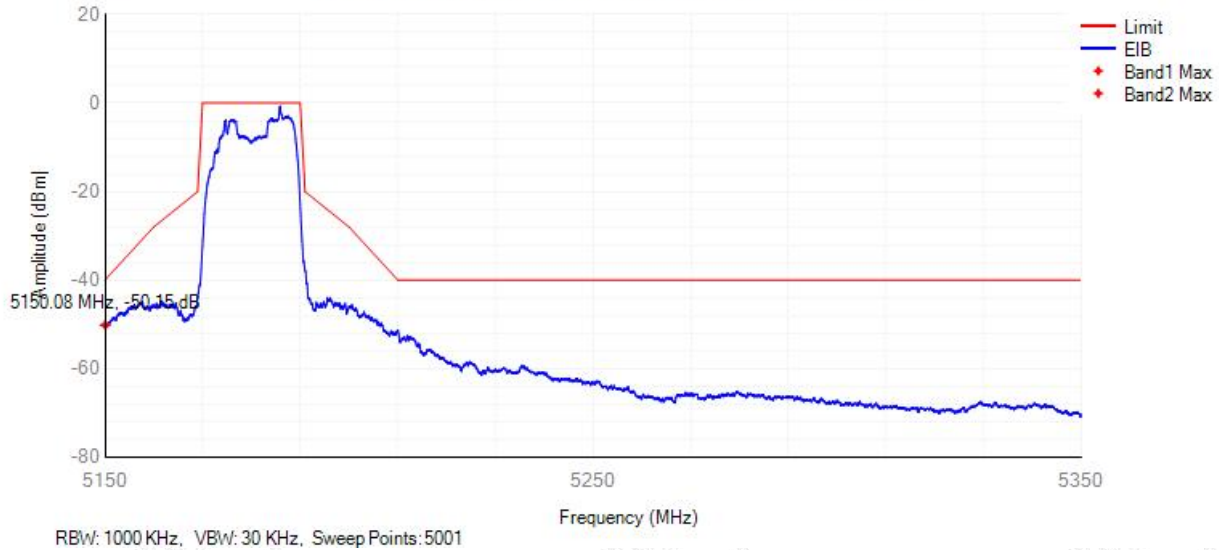
Transmitter unwanted emissions within the 5 GHz RLAN bands



Tx. Emissions EIB NVNT ax20 5180MHz Sub Band1

Frequency: 5180.00 MHz

Transmitter unwanted emissions within the 5 GHz RLAN bands



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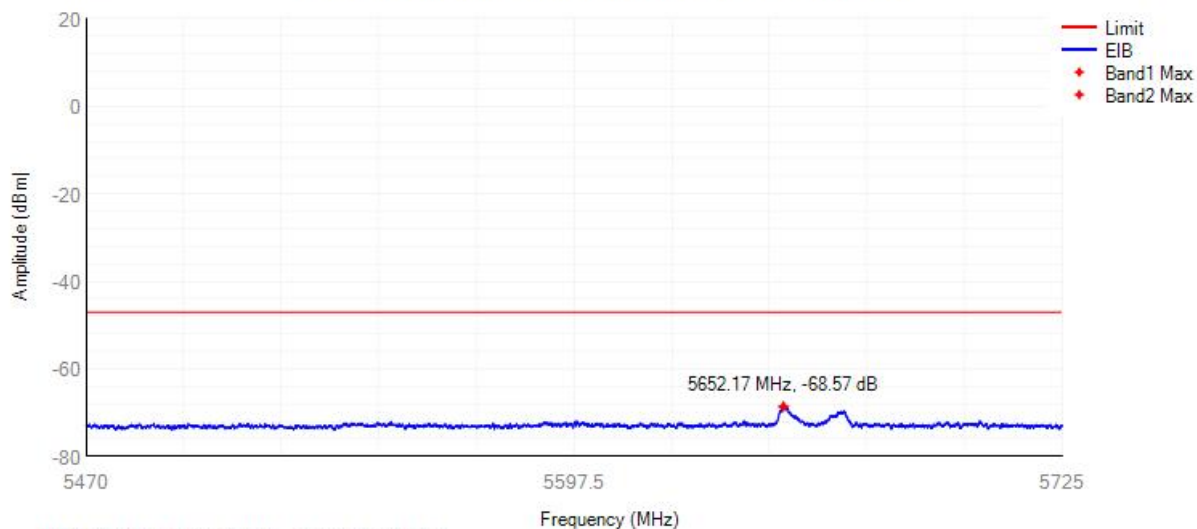
Scan code to check authenticity



Tx. Emissions EIB NVNT ax20 5180MHz Sub Band2

Frequency: 5180.00 MHz

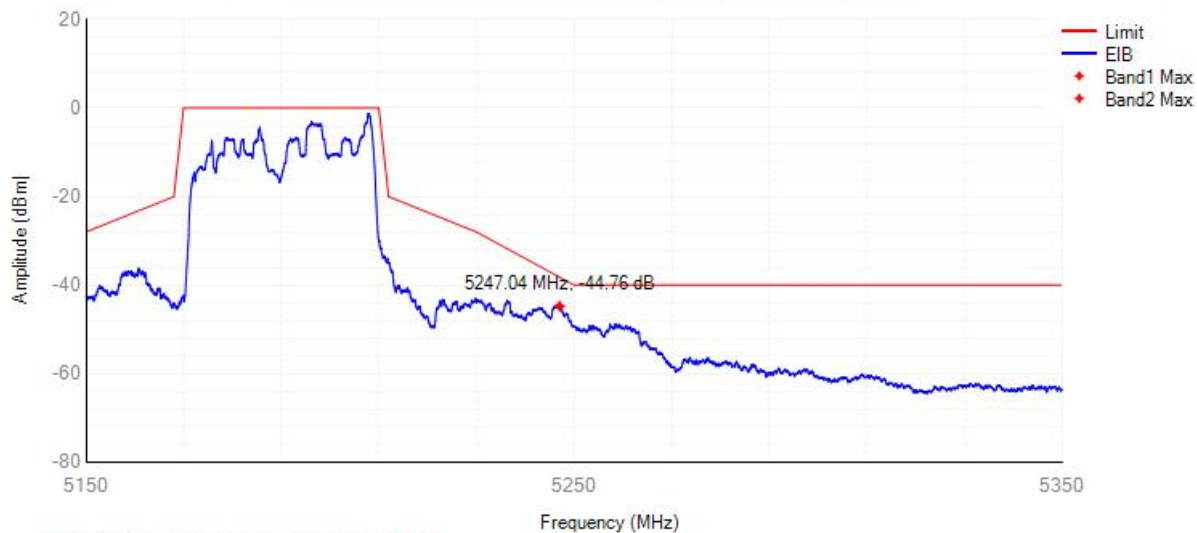
Transmitter unwanted emissions within the 5 GHz RLAN bands



Tx. Emissions EIB NVNT ax40 5190MHz Sub Band1

Frequency: 5190.00 MHz

Transmitter unwanted emissions within the 5 GHz RLAN bands



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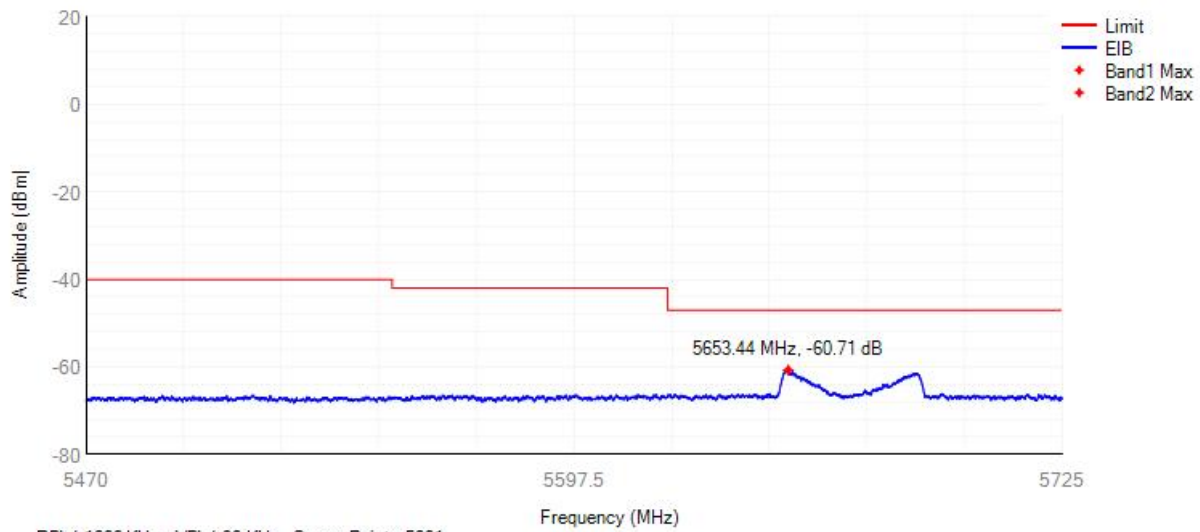
Scan code to check authenticity



Tx. Emissions EIB NVNT ax40 5190MHz Sub Band2

Frequency: 5190.00 MHz

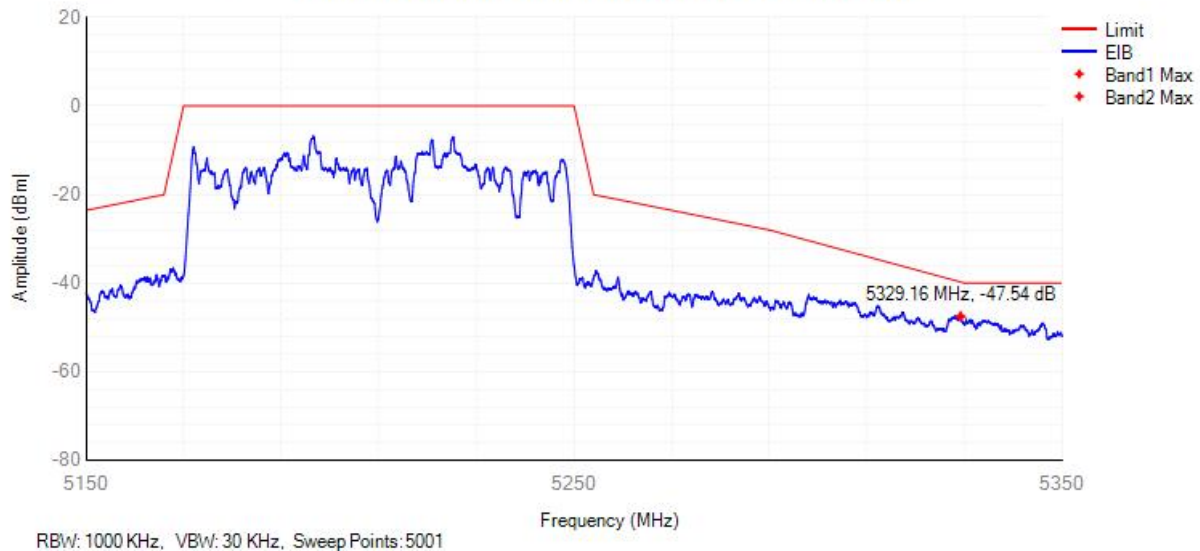
Transmitter unwanted emissions within the 5 GHz WLAN bands



Tx. Emissions EIB NVNT ax80 5210MHz Sub Band1

Frequency: 5210.00 MHz

Transmitter unwanted emissions within the 5 GHz WLAN bands



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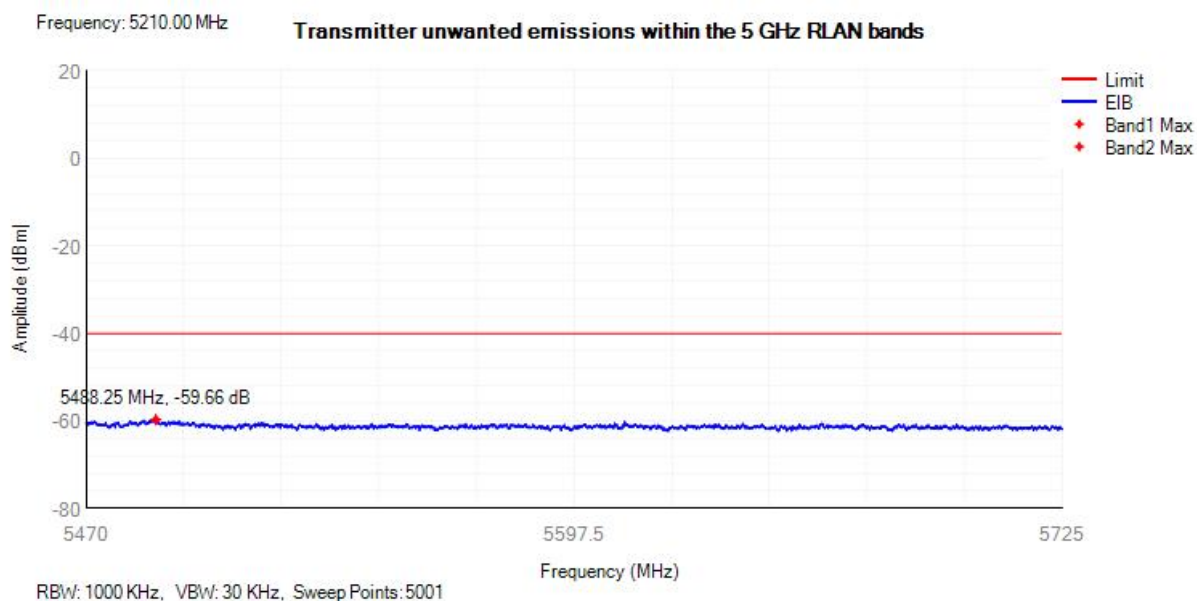
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Tx. Emissions EIB NVNT ax80 5210MHz Sub Band2





H.7 Receiver Spurious Emissions

The Worst Case: Ant6

The Worst Test Result For 802.11a					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
60.54	H	-81.34	-57.00	-24.34	PK
70.16	V	-72.87	-57.00	-15.87	PK
810.13	H	-73.00	-57.00	-16.00	PK
927.11	V	-72.88	-57.00	-15.88	PK
3481.91	H	-61.10	-47.00	-14.10	PK
3464.26	V	-62.81	-47.00	-15.81	PK
10360.06	H	-57.54	-47.00	-10.54	PK
10360.03	V	-57.44	-47.00	-10.44	PK

The Worst Test Result For 802.11n(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
58.00	H	-82.13	-57.00	-25.13	PK
67.79	V	-74.12	-57.00	-17.12	PK
807.84	H	-74.57	-57.00	-17.57	PK
921.43	V	-74.41	-57.00	-17.41	PK
3494.21	H	-63.32	-47.00	-16.32	PK
3487.52	V	-63.80	-47.00	-16.80	PK
10360.03	H	-58.03	-47.00	-11.03	PK
10360.04	V	-59.43	-47.00	-12.43	PK





The Worst Test Result For 802.11ac(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
58.85	H	-82.10	-57.00	-25.10	PK
68.08	V	-74.22	-57.00	-17.22	PK
808.96	H	-74.22	-57.00	-17.22	PK
922.44	V	-74.17	-57.00	-17.17	PK
3473.76	H	-63.64	-47.00	-16.64	PK
3467.80	V	-64.39	-47.00	-17.39	PK
10360.06	H	-57.96	-47.00	-10.96	PK
10360.04	V	-59.03	-47.00	-12.03	PK

The Worst Test Result For 802.11n(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
60.40	H	-82.06	-57.00	-25.06	PK
68.95	V	-74.92	-57.00	-17.92	PK
811.05	H	-75.17	-57.00	-18.17	PK
923.19	V	-74.24	-57.00	-17.24	PK
3498.91	H	-63.71	-47.00	-16.71	PK
3475.86	V	-62.98	-47.00	-15.98	PK
10380.01	H	-58.78	-47.00	-11.78	PK
10380.07	V	-59.79	-47.00	-12.79	PK





The Worst Test Result For 802.11ac(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
59.22	H	-82.00	-57.00	-25.00	PK
64.80	V	-74.45	-57.00	-17.45	PK
812.15	H	-74.49	-57.00	-17.49	PK
925.98	V	-73.57	-57.00	-16.57	PK
3503.18	H	-63.26	-47.00	-16.26	PK
3503.13	V	-63.49	-47.00	-16.49	PK
10380.08	H	-59.24	-47.00	-12.24	PK
10380.08	V	-59.74	-47.00	-12.74	PK

The Worst Test Result For 802.11ac(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42 (5210MHz)					
56.77	H	-82.30	-57.00	-25.30	PK
66.93	V	-74.23	-57.00	-17.23	PK
807.52	H	-73.95	-57.00	-16.95	PK
927.58	V	-74.09	-57.00	-17.09	PK
3514.24	H	-63.64	-47.00	-16.64	PK
3484.52	V	-64.22	-47.00	-17.22	PK
10420.08	H	-58.69	-47.00	-11.69	PK
10420.02	V	-60.46	-47.00	-13.46	PK





The Worst Test Result For 802.11ax(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
60.31	H	-82.29	-57.00	-25.29	PK
63.81	V	-73.79	-57.00	-16.79	PK
808.90	H	-74.90	-57.00	-17.90	PK
924.02	V	-74.41	-57.00	-17.41	PK
3466.06	H	-63.37	-47.00	-16.37	PK
3499.79	V	-63.89	-47.00	-16.89	PK
10360.01	H	-58.16	-47.00	-11.16	PK
10360.00	V	-59.37	-47.00	-12.37	PK

The Worst Test Result For 802.11ax(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
56.84	H	-82.77	-57.00	-25.77	PK
66.71	V	-74.10	-57.00	-17.10	PK
808.98	H	-75.27	-57.00	-18.27	PK
922.72	V	-73.48	-57.00	-16.48	PK
3486.28	H	-63.55	-47.00	-16.55	PK
3491.48	V	-63.83	-47.00	-16.83	PK
10380.06	H	-58.77	-47.00	-11.77	PK
10380.04	V	-59.36	-47.00	-12.36	PK





The Worst Test Result For 802.11ax(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42 (5210MHz)					
59.94	H	-82.63	-57.00	-25.63	PK
67.70	V	-74.69	-57.00	-17.69	PK
809.09	H	-74.59	-57.00	-17.59	PK
924.38	V	-74.72	-57.00	-17.72	PK
3512.84	H	-64.01	-47.00	-17.01	PK
3506.75	V	-63.81	-47.00	-16.81	PK
10420.07	H	-58.86	-47.00	-11.86	PK
10420.05	V	-60.58	-47.00	-13.58	PK

Note: All test modes were tested, but we only recorded the worst case in this report. (Low Channel)





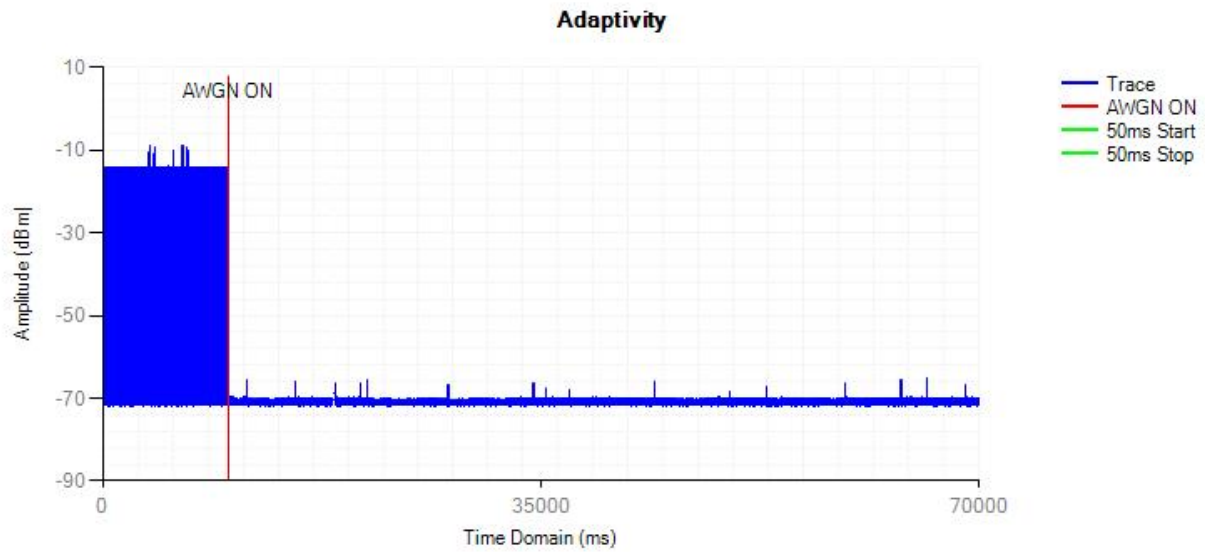
H.8 Adaptivity (Channel Access Mechanism)

Condition	Mode	Frequency (MHz)	Interfer Type	Short Control (ms)	Limit (ms)	Short Control (n)	Limit (n)	Verdict
NVNT	ac20	5180	AWGN	0.43	≤ 2.5	9	≤ 50	Pass
NVNT	ac20	5180	LTE	0.43	≤ 2.5	6	≤ 50	Pass
NVNT	ac20	5180	OFDM	0.58	≤ 2.5	3	≤ 50	Pass
NVNT	ax20	5180	AWGN	0.45	≤ 2.5	9	≤ 50	Pass
NVNT	ax20	5180	LTE	0.28	≤ 2.5	6	≤ 50	Pass
NVNT	ax20	5180	OFDM	0.79	≤ 2.5	3	≤ 50	Pass
NVNT	ac40	5190	AWGN	0.35	≤ 2.5	8	≤ 50	Pass
NVNT	ac40	5190	LTE	0.70	≤ 2.5	5	≤ 50	Pass
NVNT	ac40	5190	OFDM	0.65	≤ 2.5	14	≤ 50	Pass
NVNT	ax40	5190	AWGN	0.44	≤ 2.5	8	≤ 50	Pass
NVNT	ax40	5190	LTE	0.76	≤ 2.5	5	≤ 50	Pass
NVNT	ax40	5190	OFDM	0.65	≤ 2.5	14	≤ 50	Pass
NVNT	ac80	5210	AWGN	0.27	≤ 2.5	7	≤ 50	Pass
NVNT	ac80	5210	LTE	0.21	≤ 2.5	13	≤ 50	Pass
NVNT	ac80	5210	OFDM	0.33	≤ 2.5	12	≤ 50	Pass
NVNT	ax80	5210	AWGN	0.30	≤ 2.5	7	≤ 50	Pass
NVNT	ax80	5210	LTE	0.38	≤ 2.5	13	≤ 50	Pass
NVNT	ax80	5210	OFDM	0.60	≤ 2.5	12	≤ 50	Pass

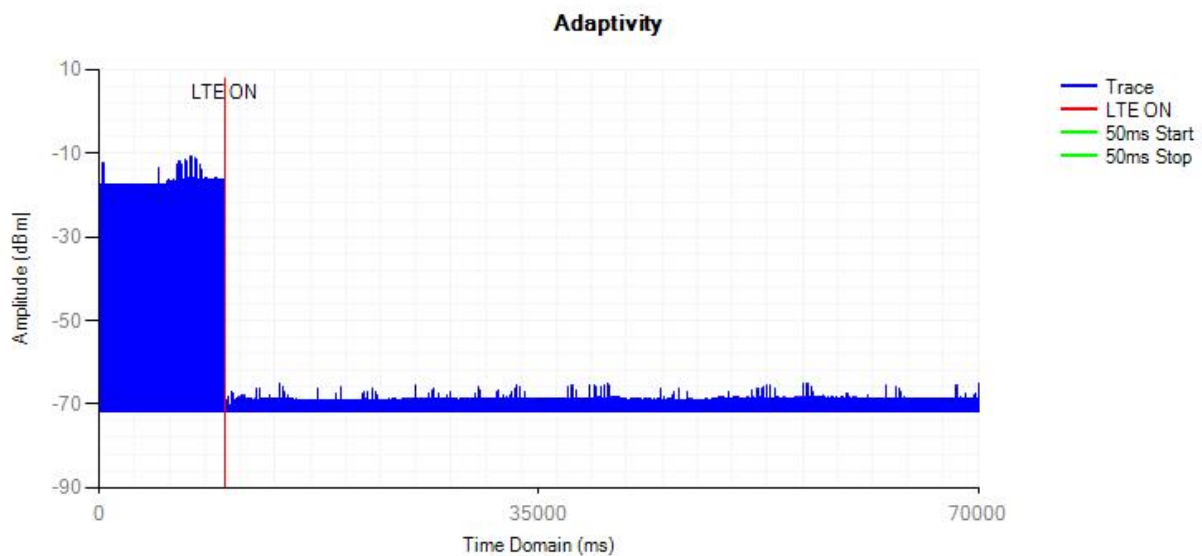




Adaptivity NVNT ac20 5180MHz AWGN

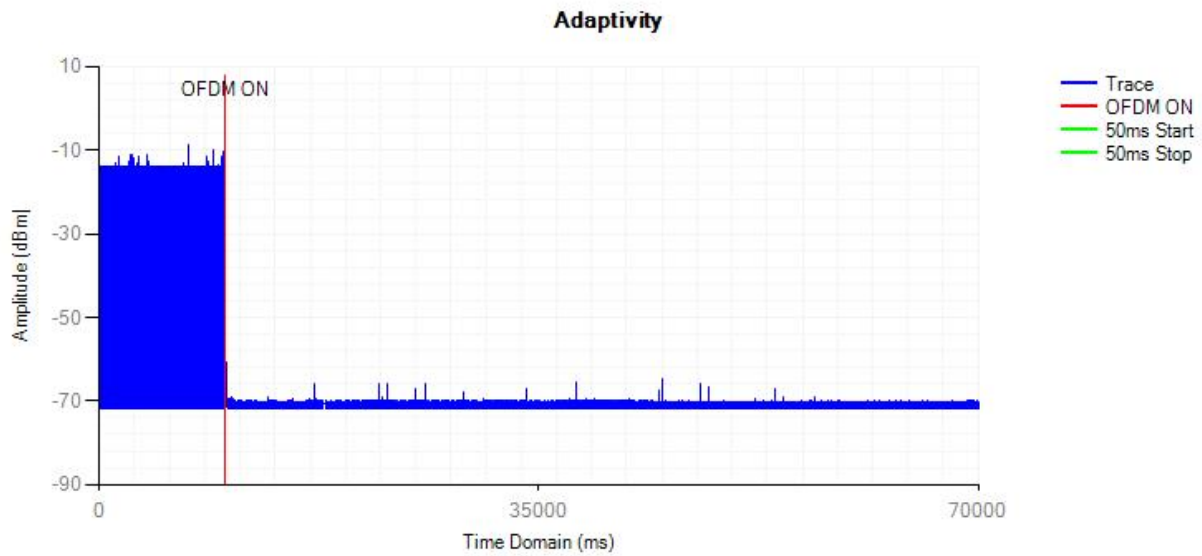


Adaptivity NVNT ac20 5180MHz LTE

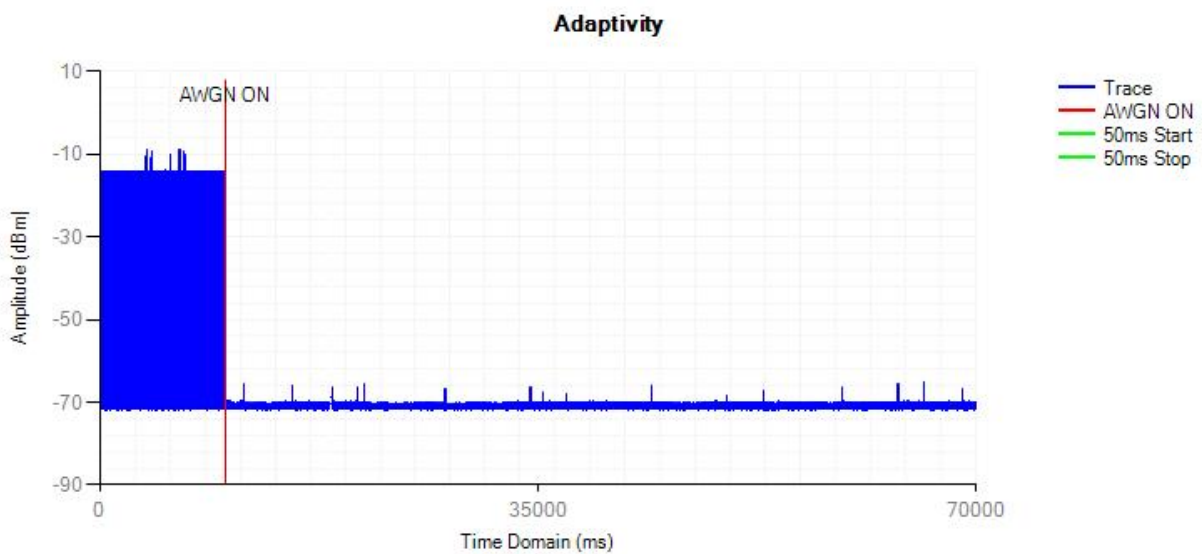




Adaptivity NVNT ac20 5180MHz OFDM

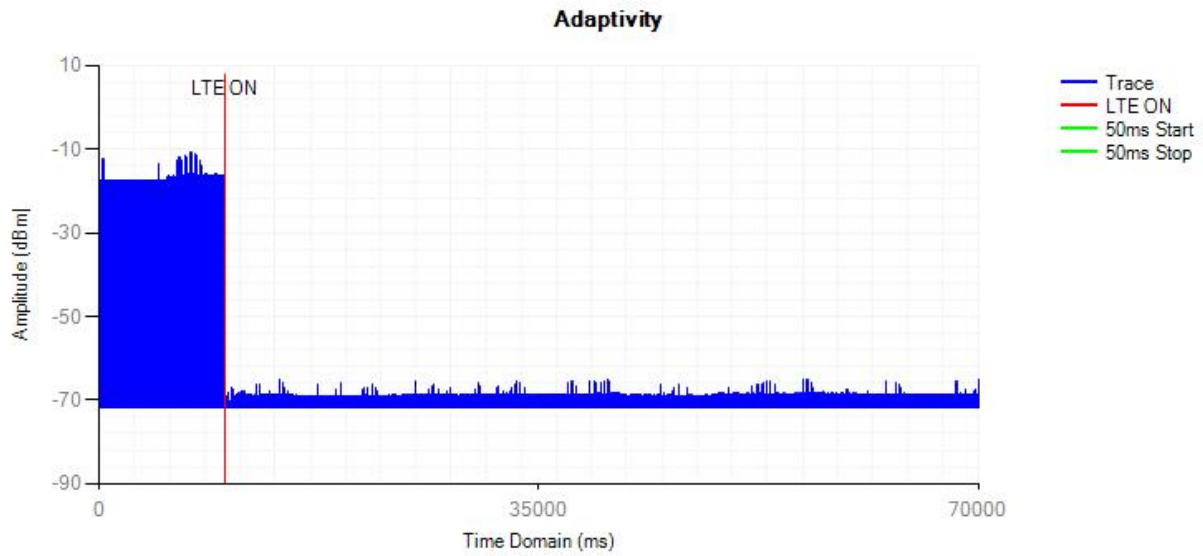


Adaptivity NVNT ax20 5180MHz AWGN

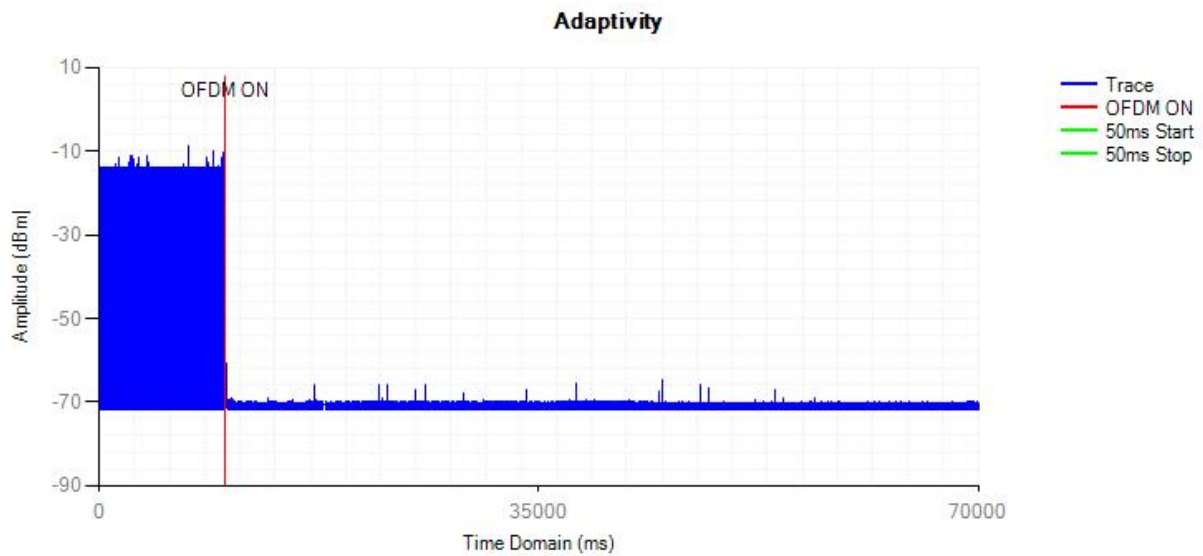




Adaptivity NVNT ax20 5180MHz LTE

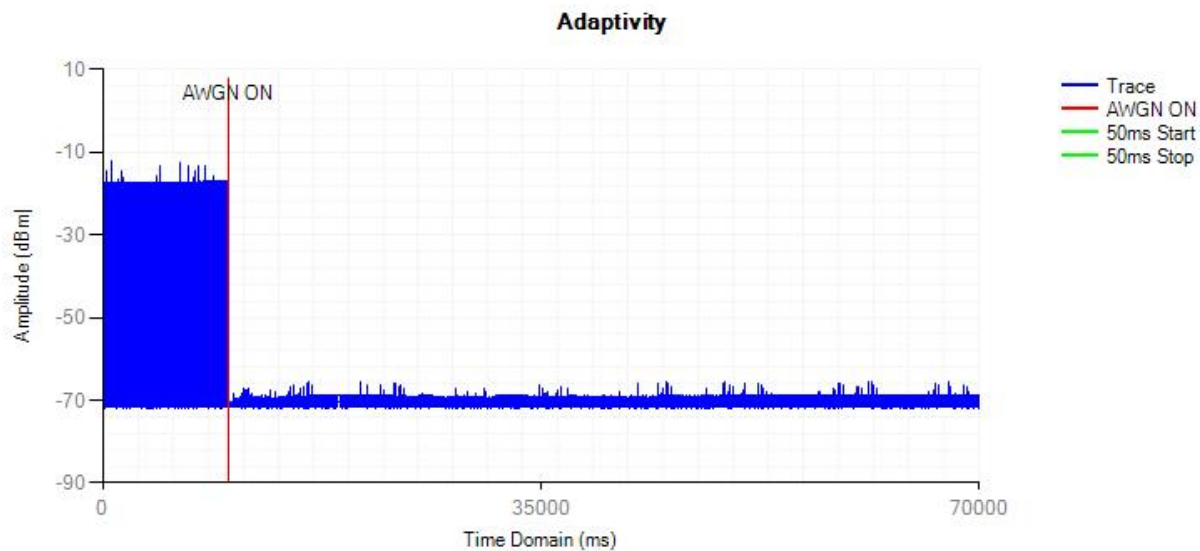


Adaptivity NVNT ax20 5180MHz OFDM

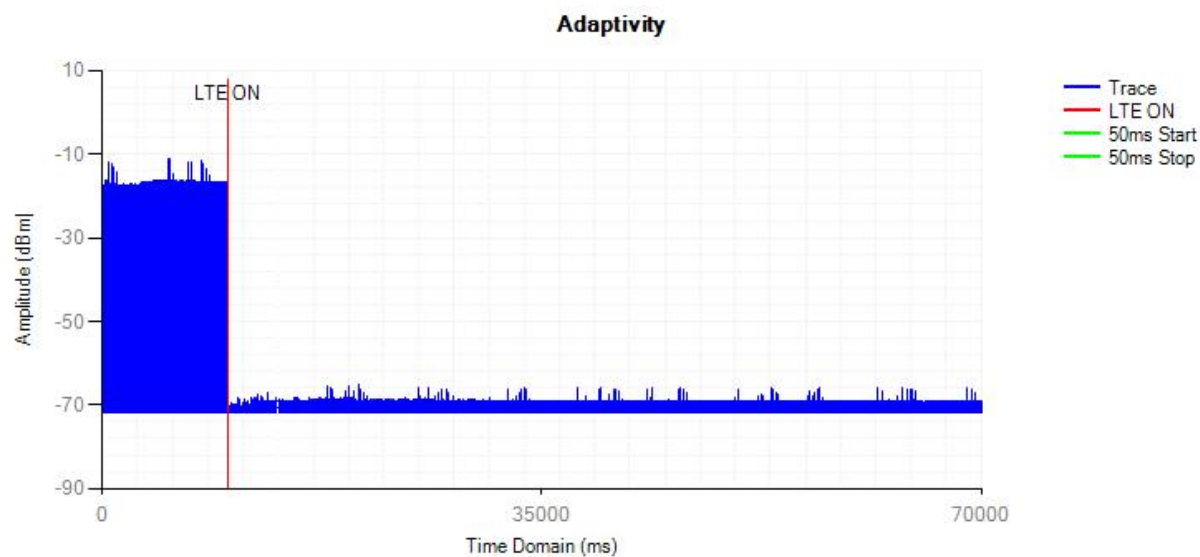




Adaptivity NVNT ac40 5190MHz AWGN

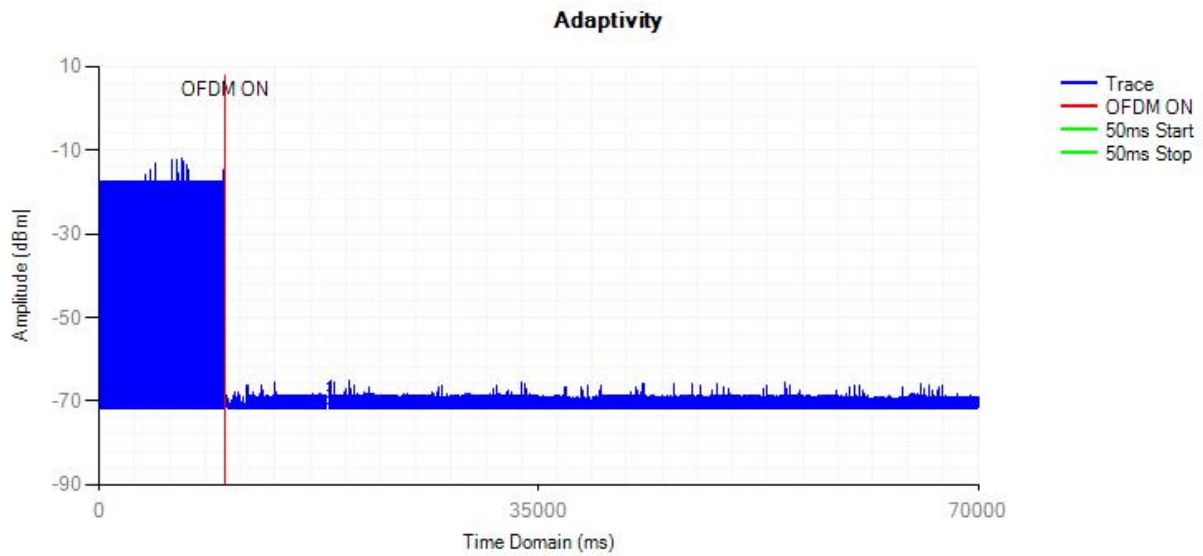


Adaptivity NVNT ac40 5190MHz LTE

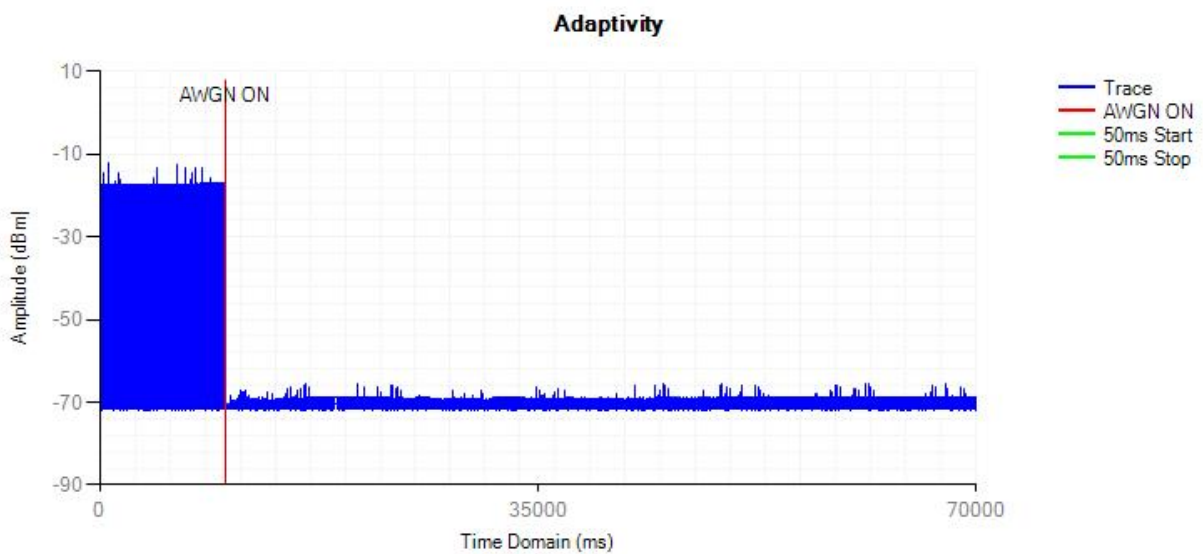




Adaptivity NVNT ac40 5190MHz OFDM



Adaptivity NVNT ax40 5190MHz AWGN



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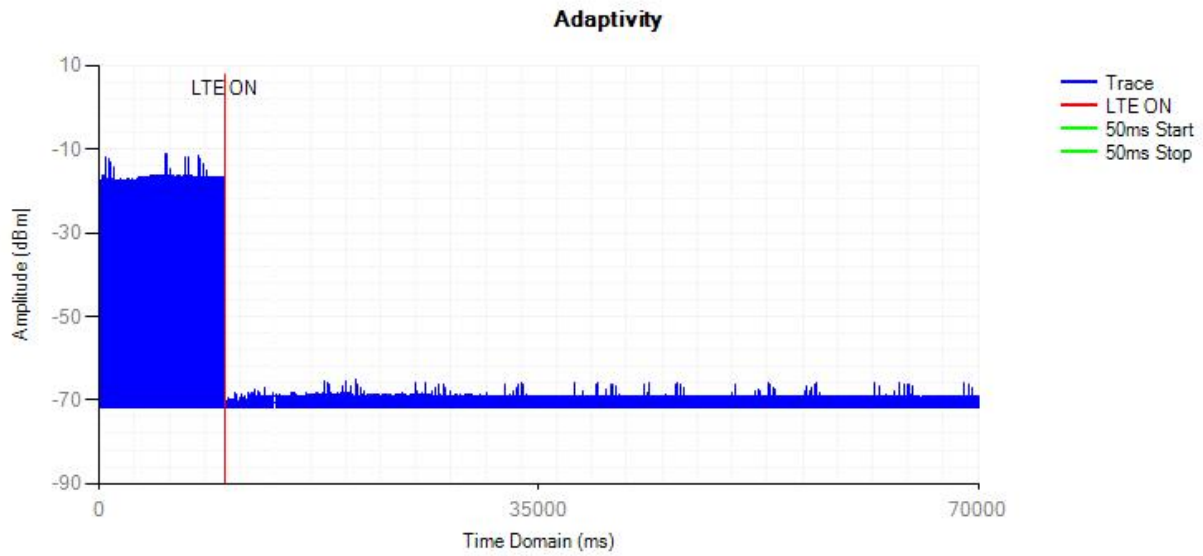
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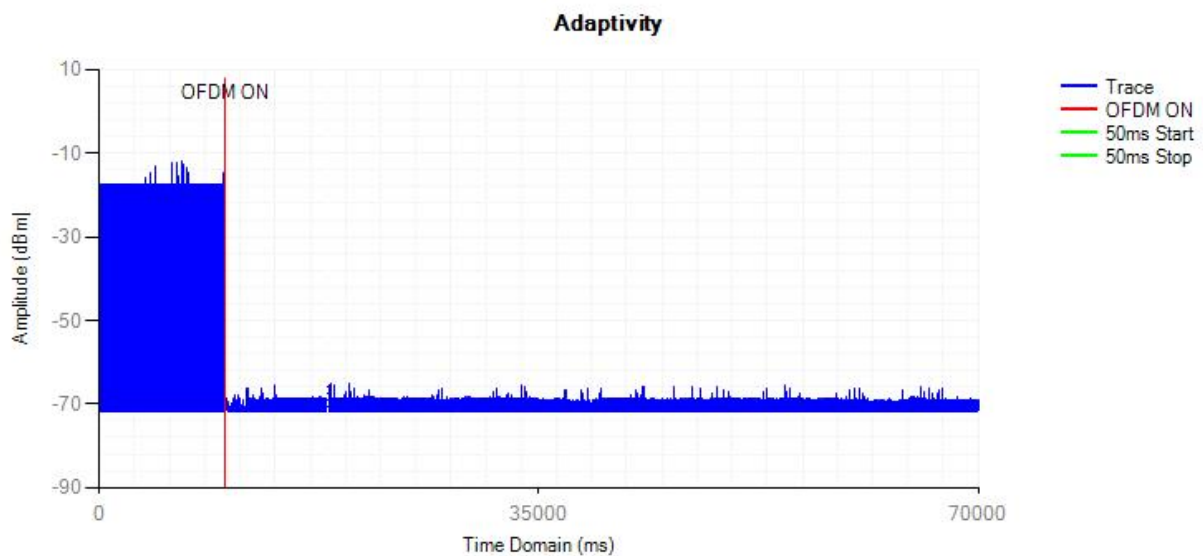
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Adaptivity NVNT ax40 5190MHz LTE

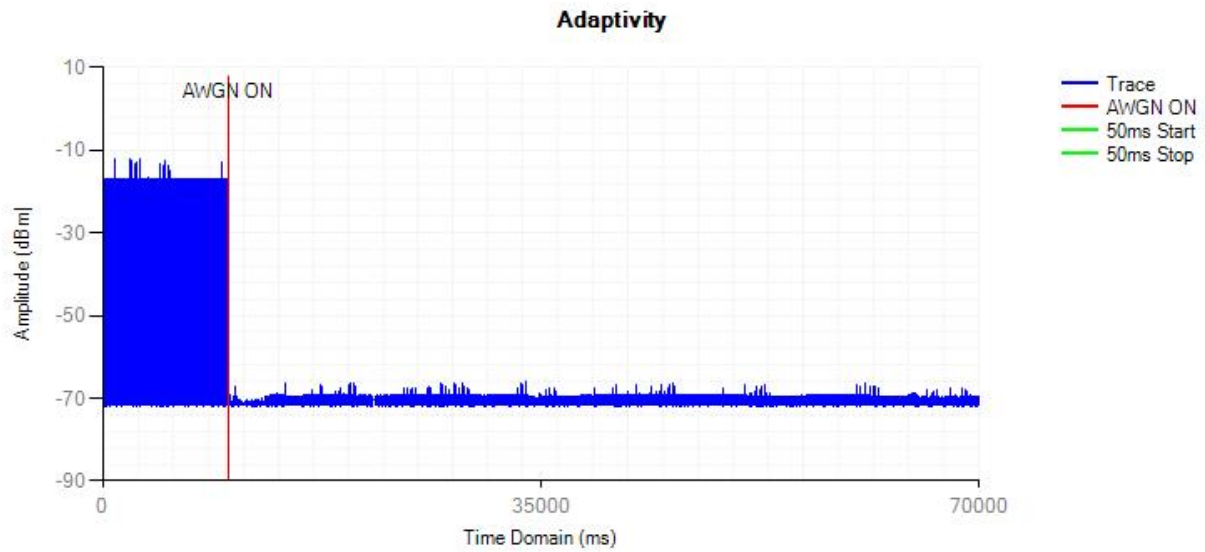


Adaptivity NVNT ax40 5190MHz OFDM

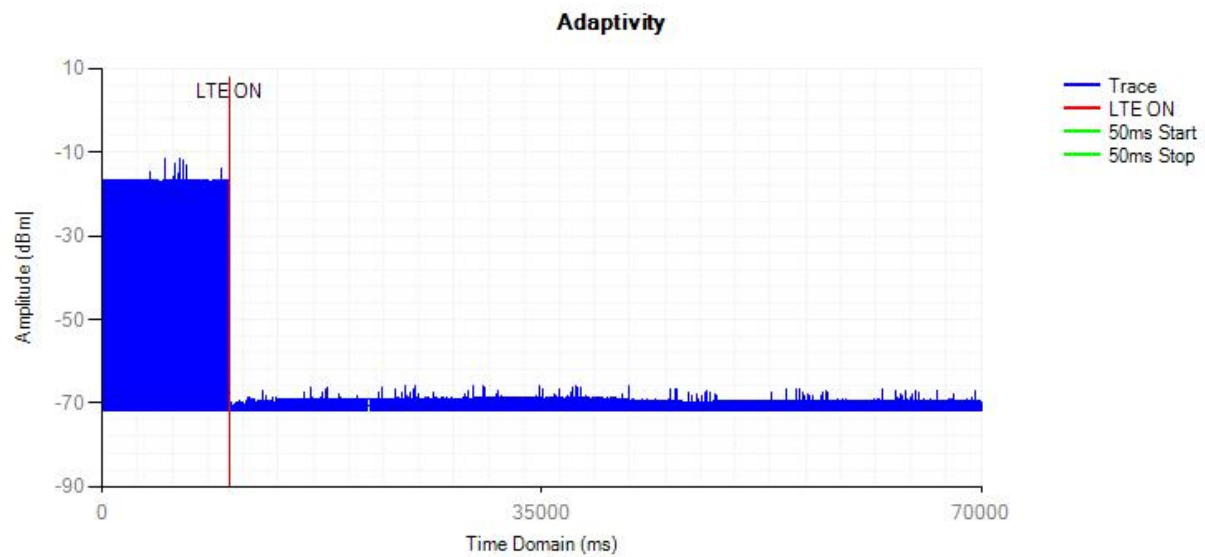




Adaptivity NVNT ac80 5210MHz AWGN

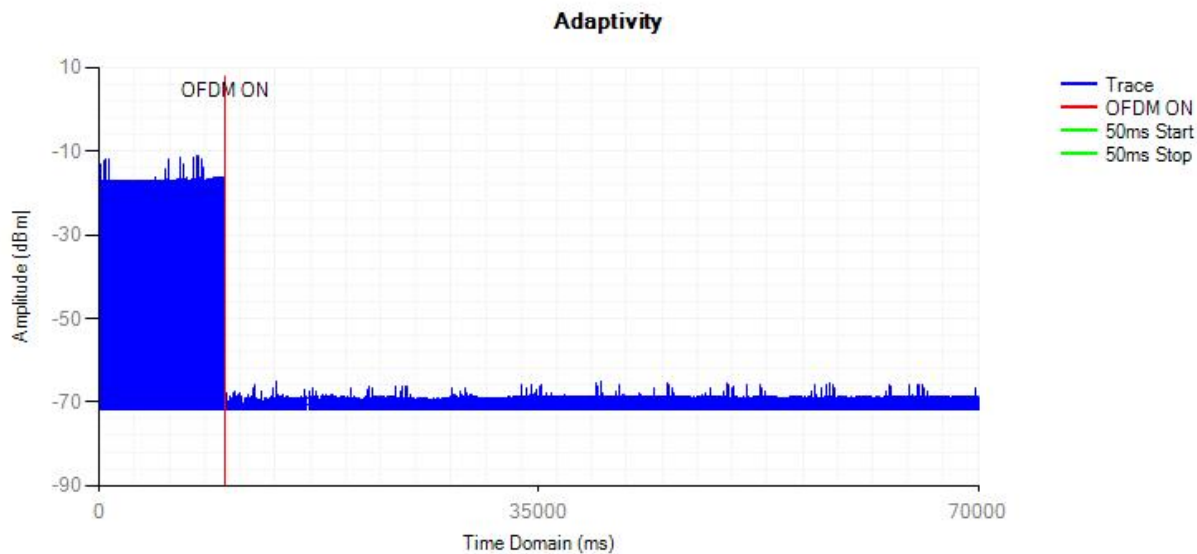


Adaptivity NVNT ac80 5210MHz LTE

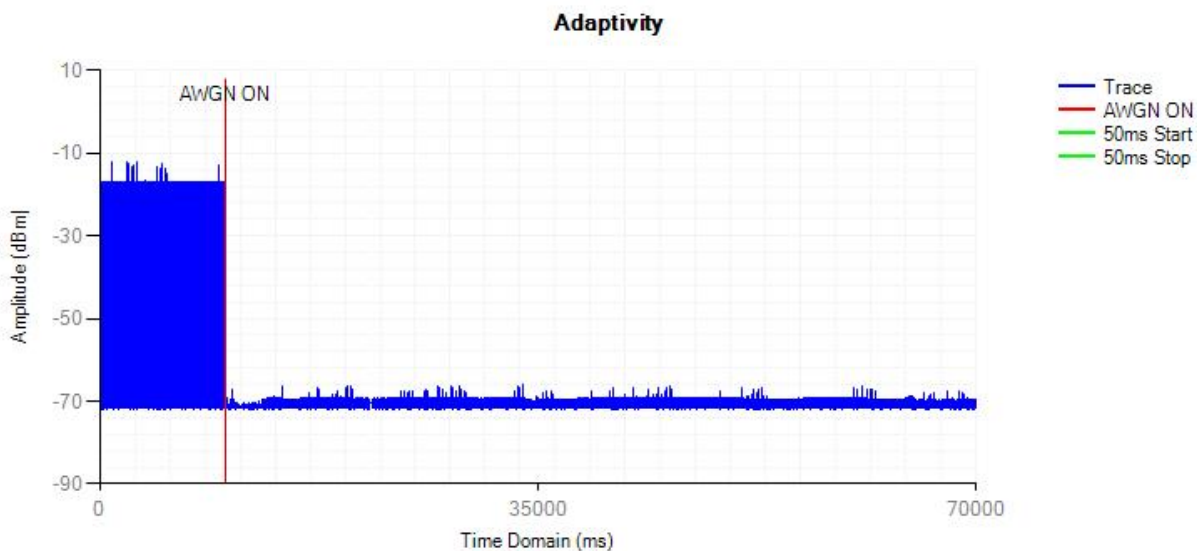




Adaptivity NVNT ac80 5210MHz OFDM

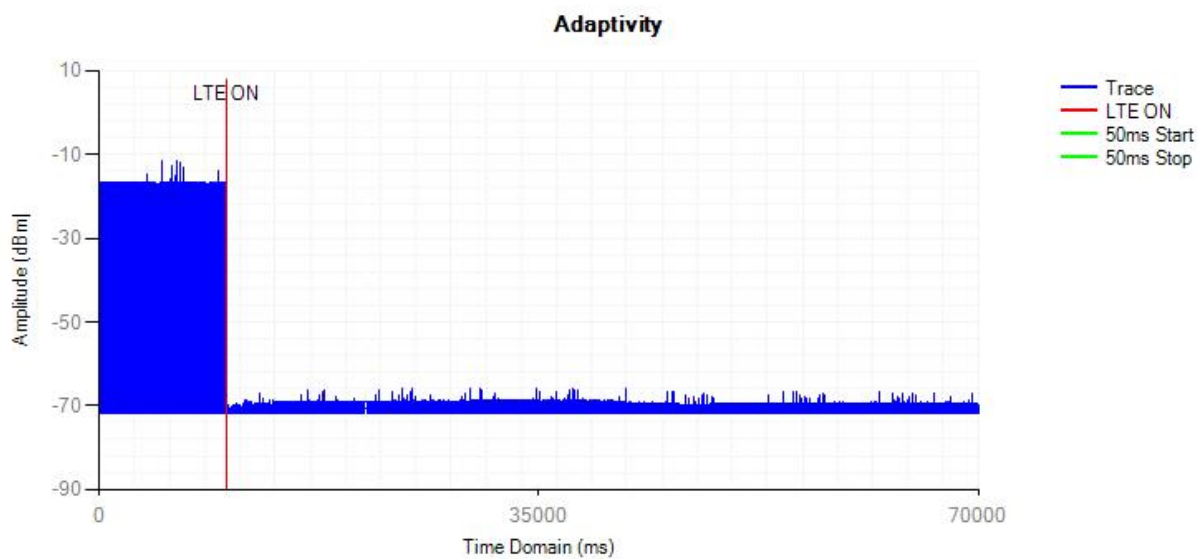


Adaptivity NVNT ax80 5210MHz AWGN

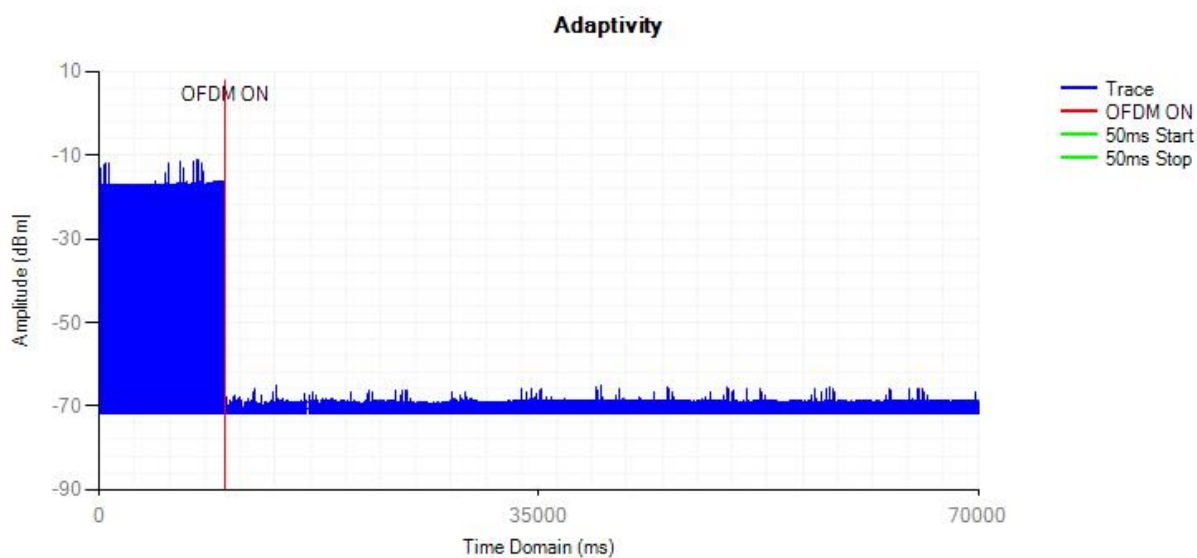




Adaptivity NVNT ax80 5210MHz LTE



Adaptivity NVNT ax80 5210MHz OFDM



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Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

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H.9 Receiver Blocking

The Worst Case: Ant6

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)		Type of blocking signal	PER(%)		Test Result
		Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	5100	-50	≥-59	CW	4.78	10	Pass
	4900	-40	≥-53	CW	2.78	10	Pass
	5000	-48	≥-53	CW	2.05	10	Pass
	5975	-49	≥-53	CW	2.68	10	Pass

Note: All test modes were tested, but we only recorded the worst case in this report.

