7.4 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360132	06/10/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

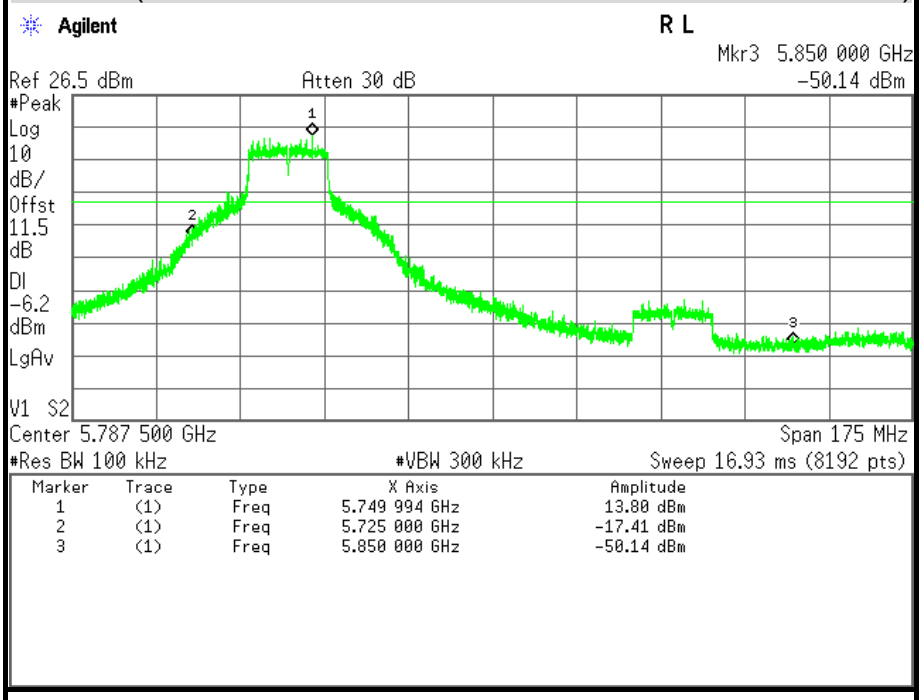
The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 5 GHz band.

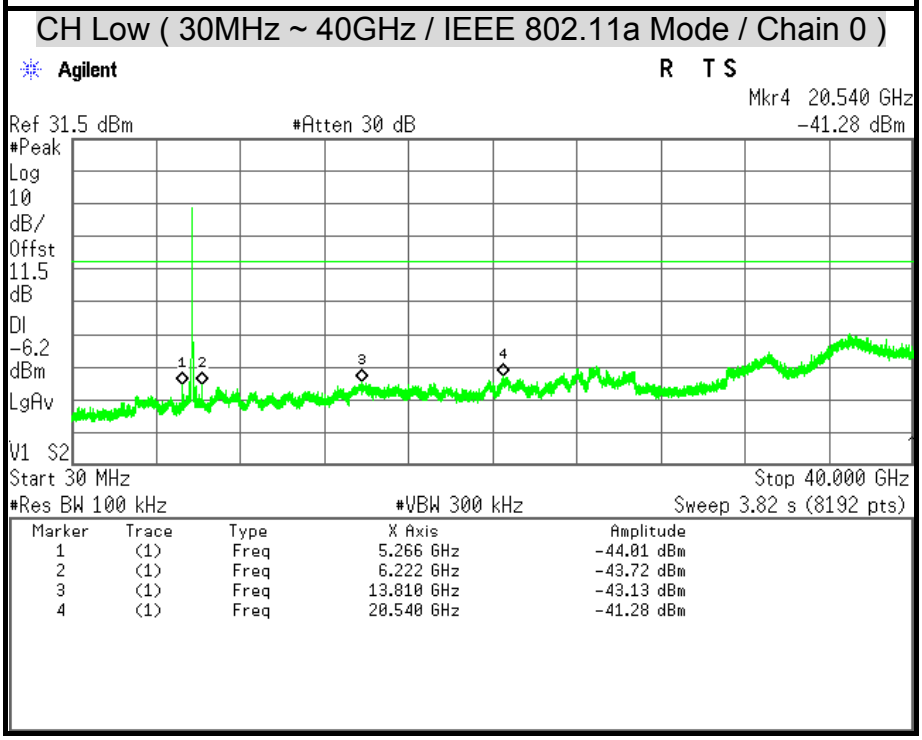
TEST RESULTS

OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

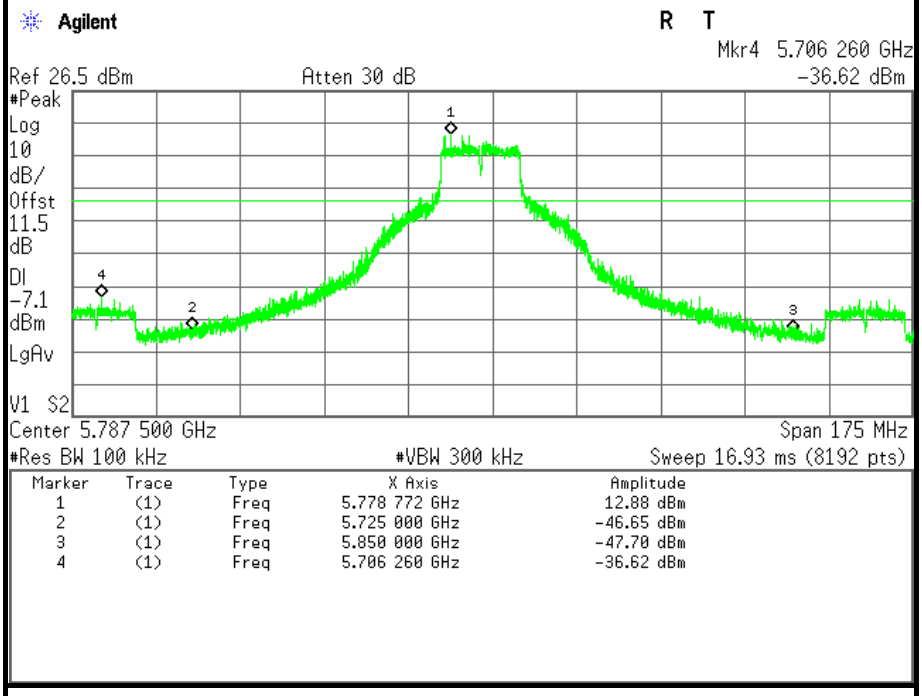
CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 0)



CH Low (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 0)

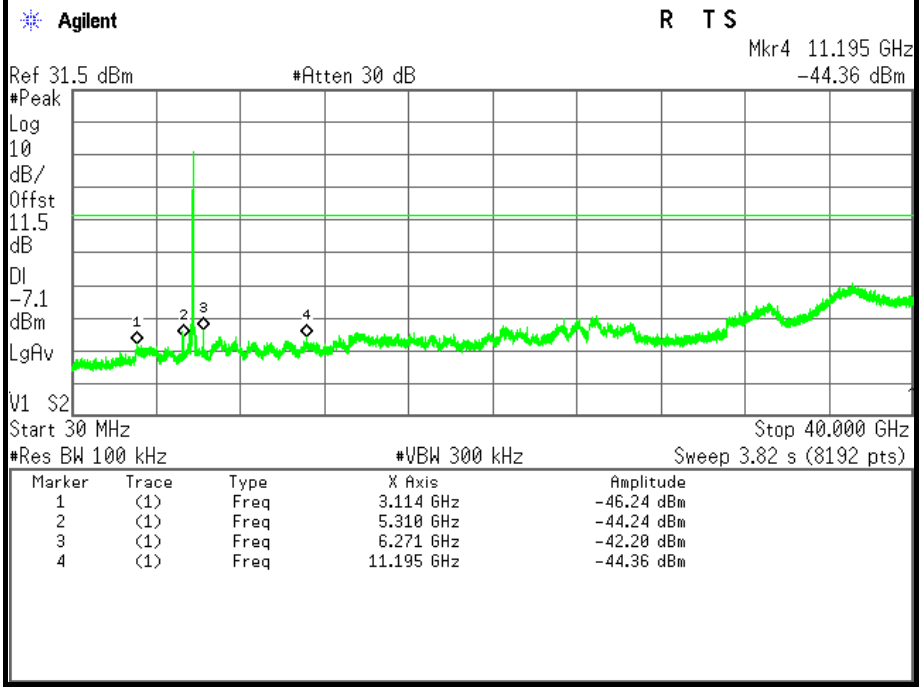


CH Middle (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 0)



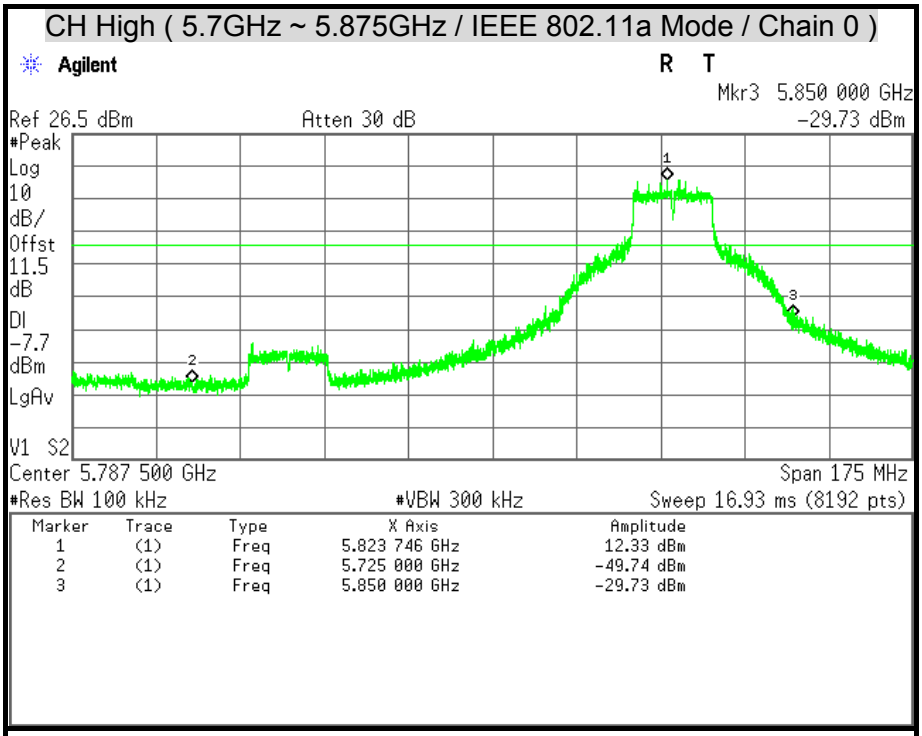
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.778 772 GHz	12.88 dBm
2	(1)	Freq	5.725 000 GHz	-46.65 dBm
3	(1)	Freq	5.850 000 GHz	-47.70 dBm
4	(1)	Freq	5.706 260 GHz	-36.62 dBm

CH Middle (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 0)

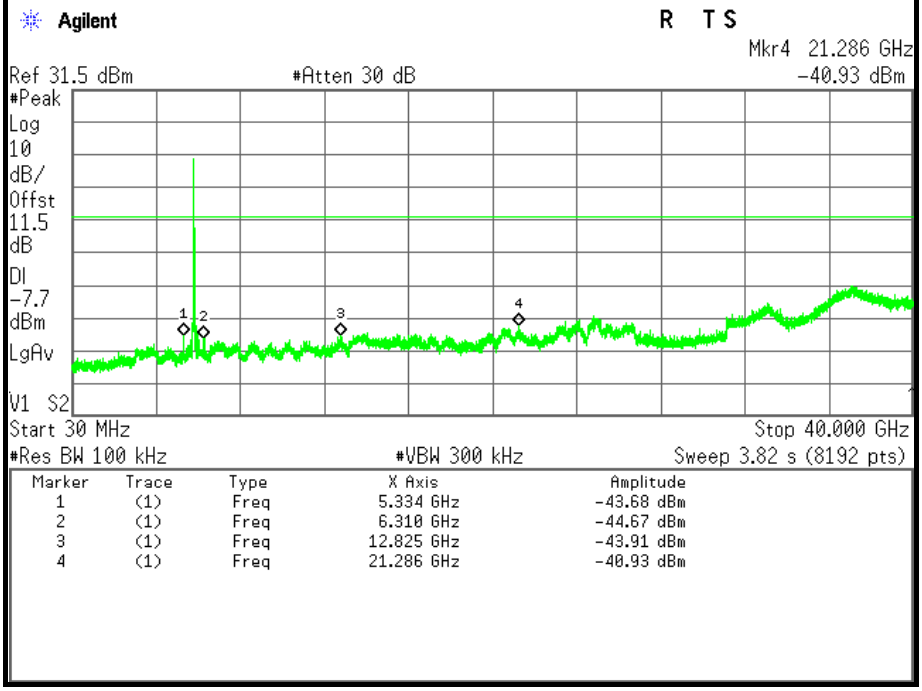


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.114 GHz	-46.24 dBm
2	(1)	Freq	5.310 GHz	-44.24 dBm
3	(1)	Freq	6.271 GHz	-42.20 dBm
4	(1)	Freq	11.195 GHz	-44.36 dBm

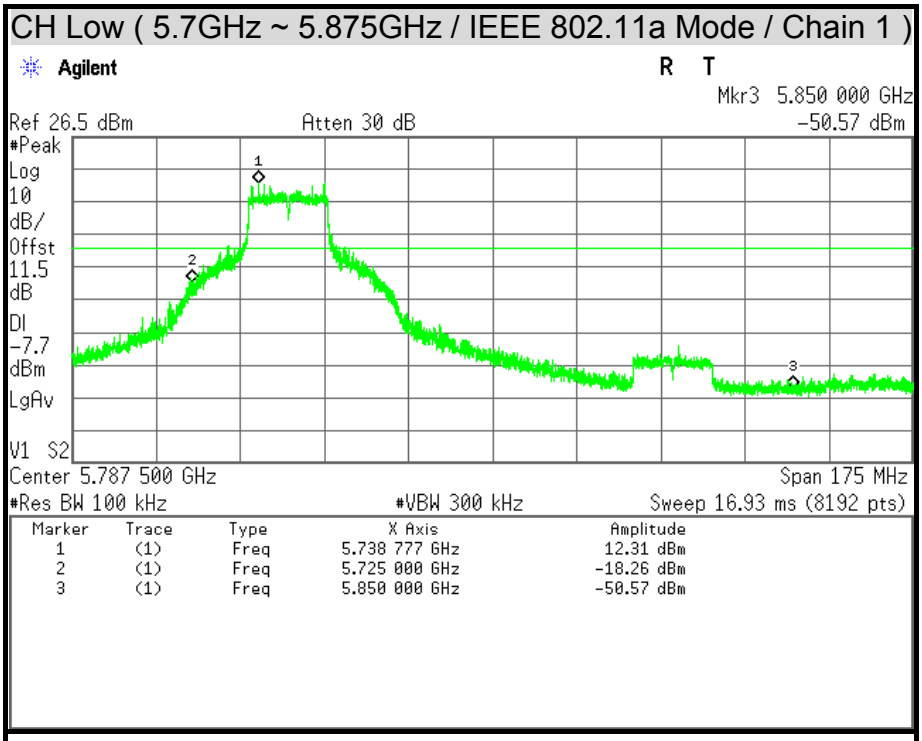
CH High (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 0)



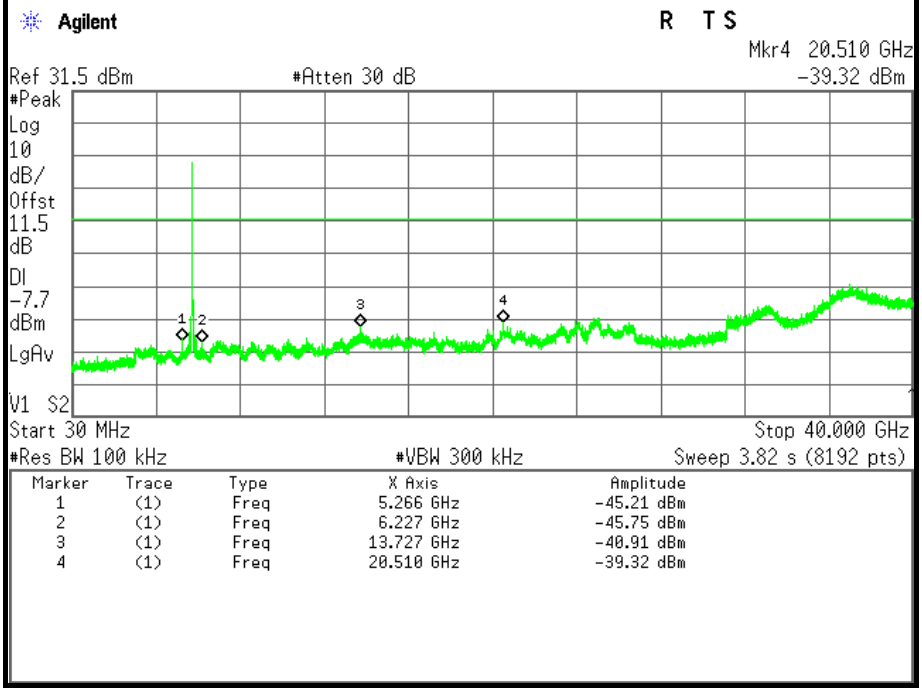
CH High (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 0)



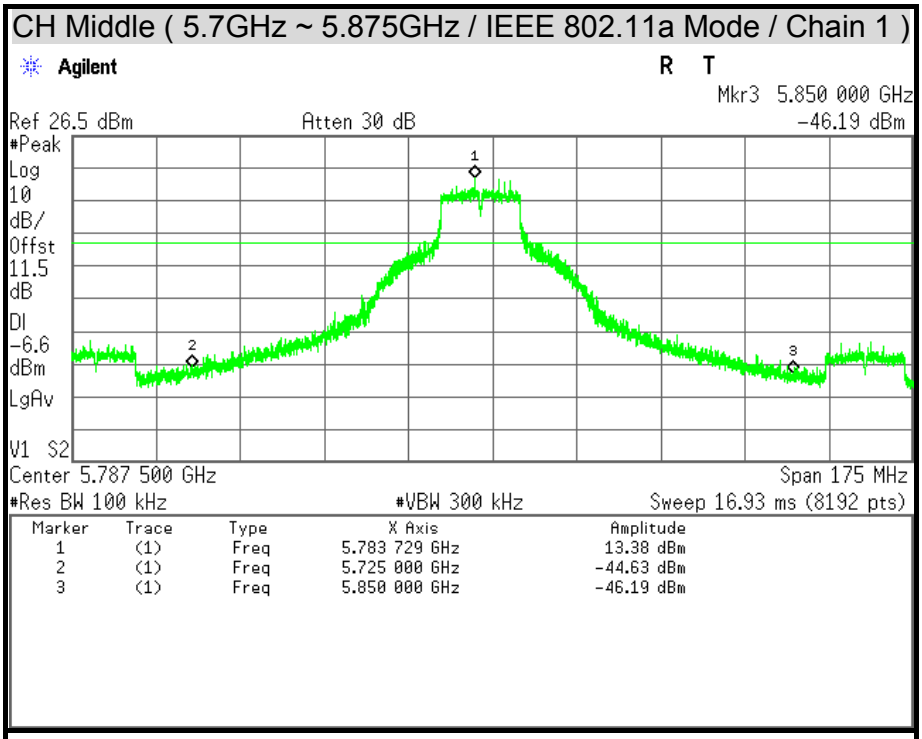
CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 1)



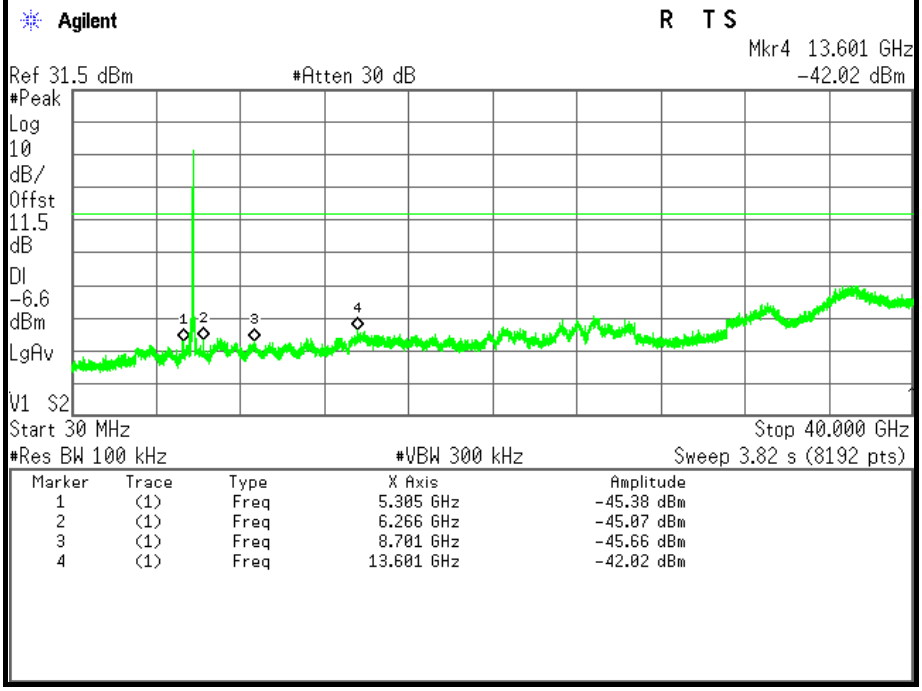
CH Low (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 1)



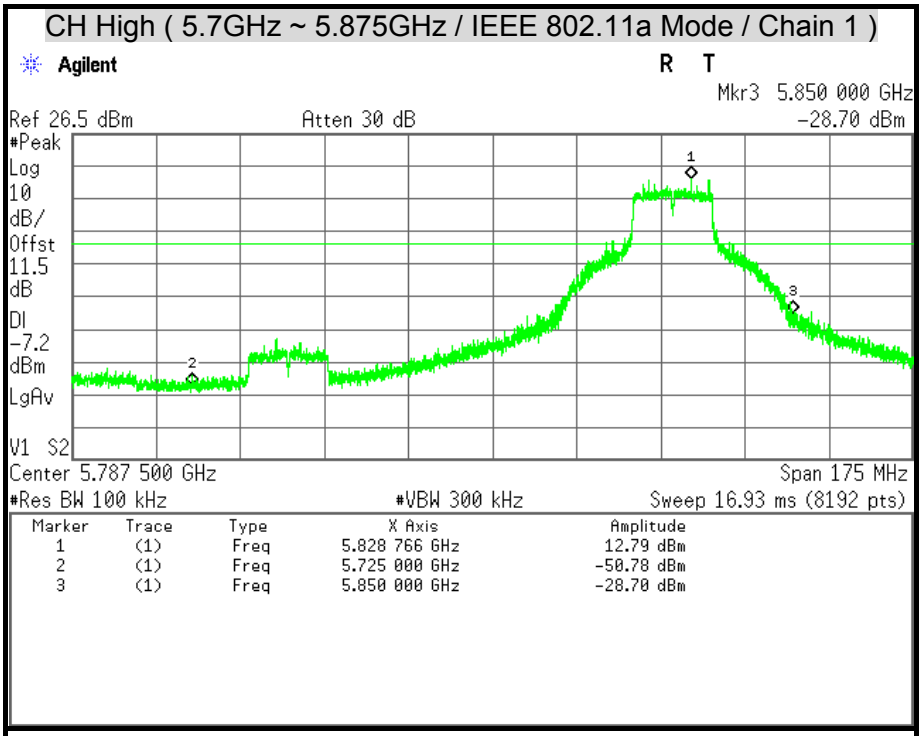
CH Middle (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 1)



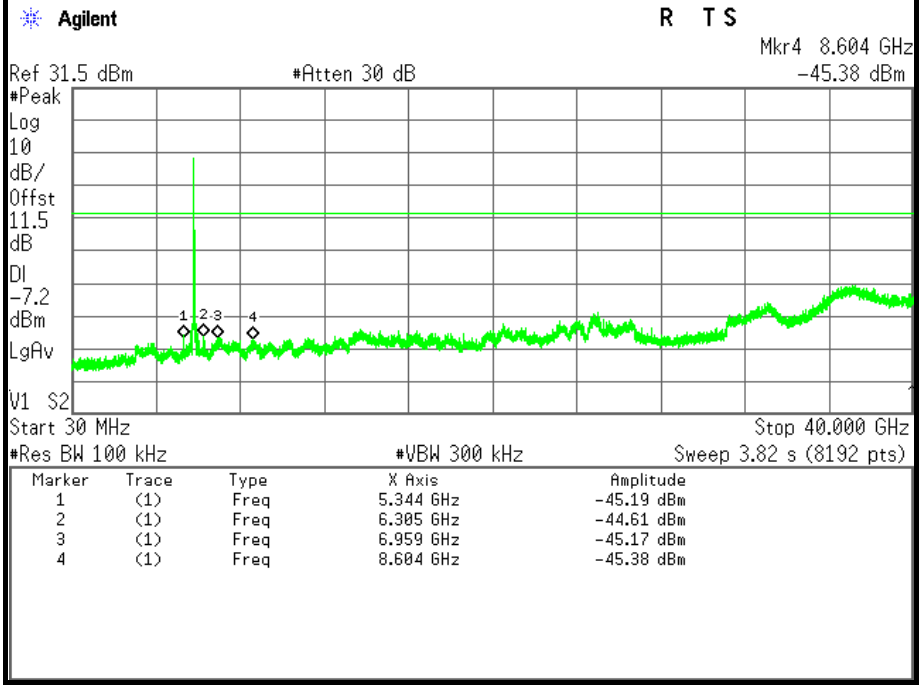
CH Middle (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 1)



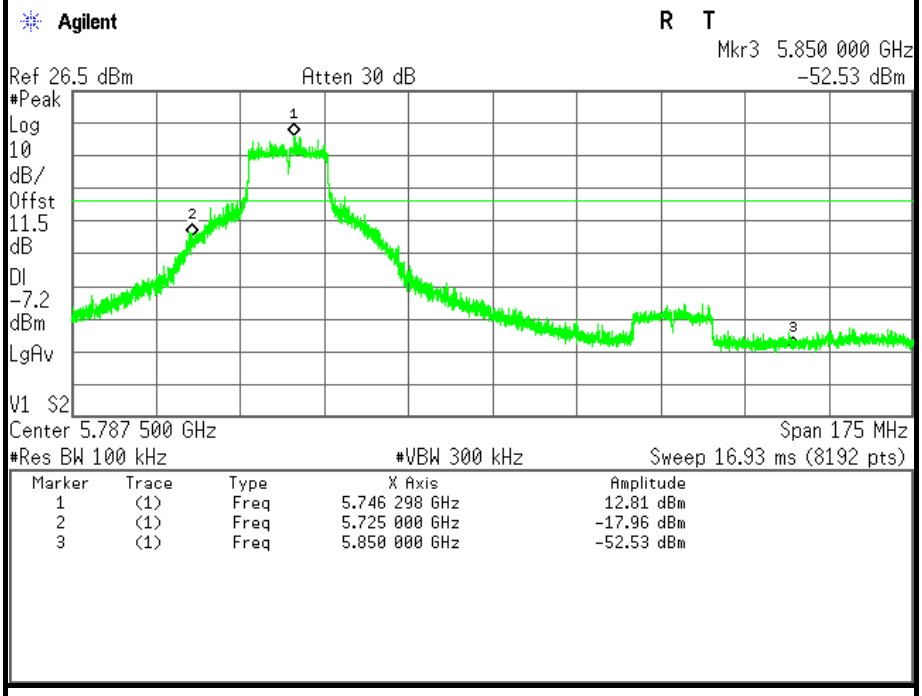
CH High (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 1)



CH High (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 1)

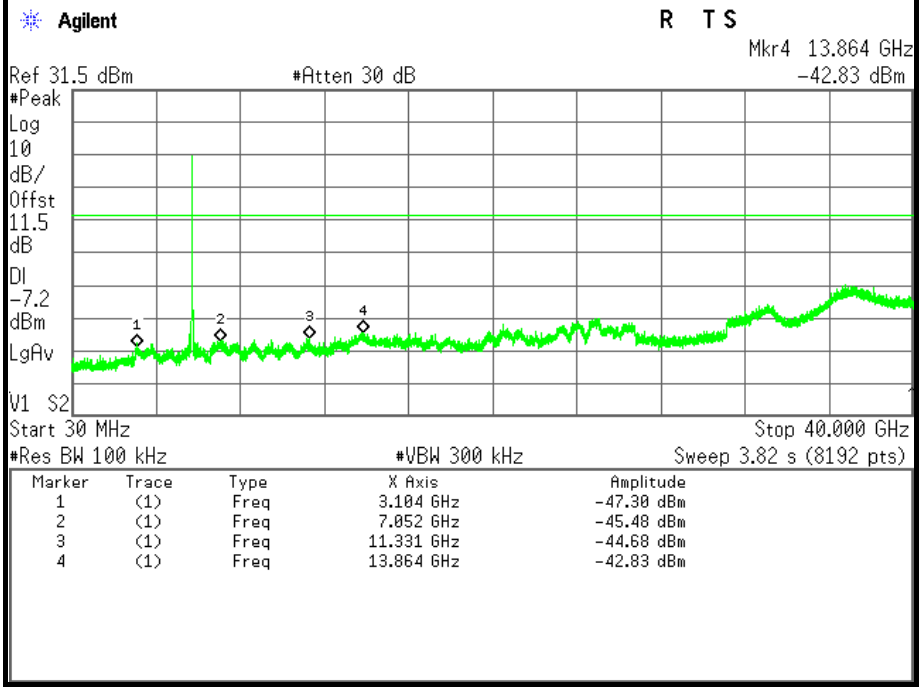


CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 2)



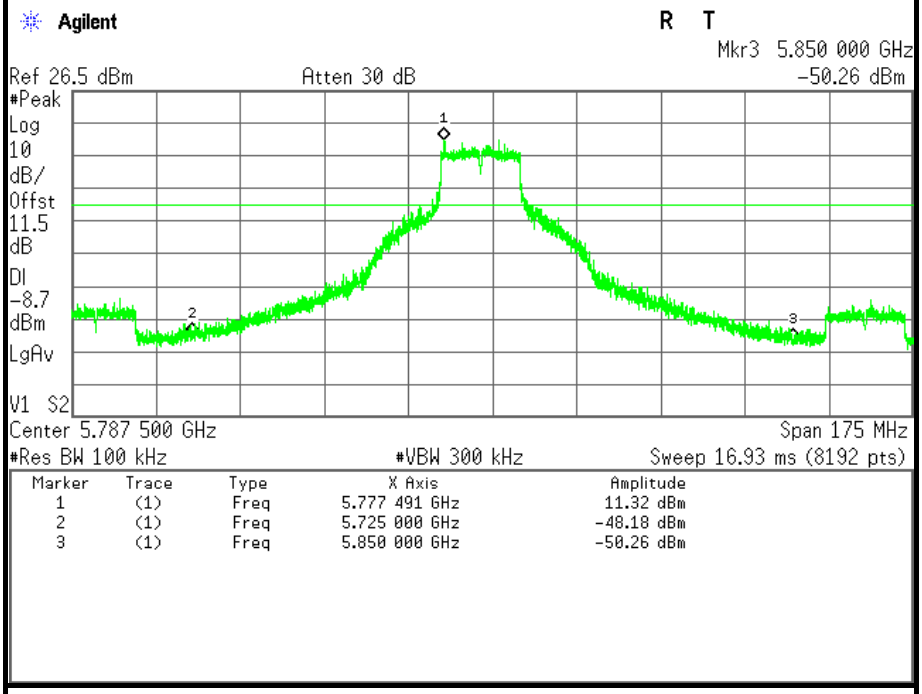
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.746 298 GHz	12.81 dBm
2	(1)	Freq	5.725 000 GHz	-17.96 dBm
3	(1)	Freq	5.850 000 GHz	-52.53 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 2)



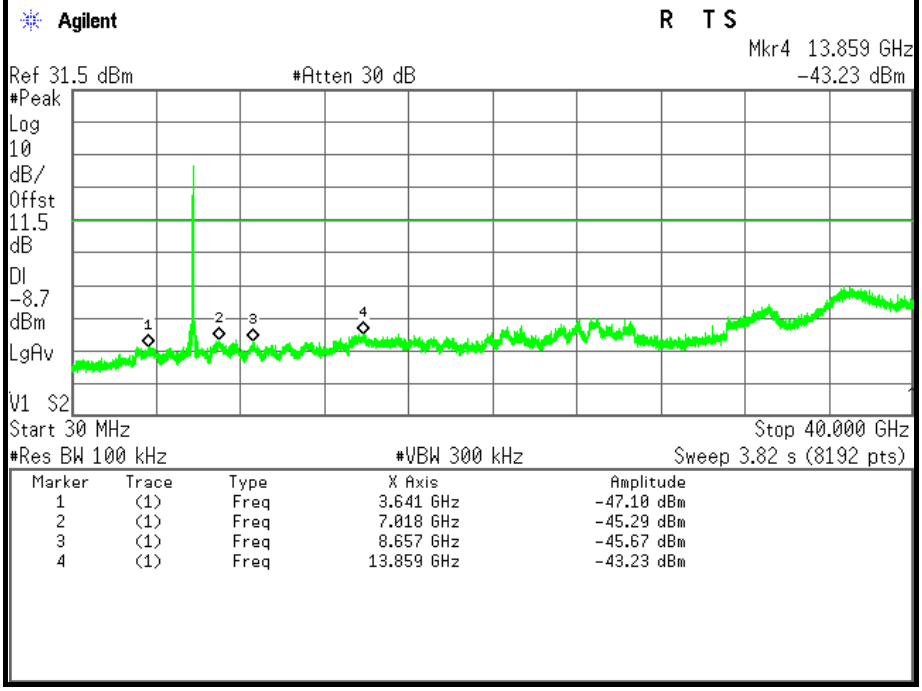
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.104 GHz	-47.30 dBm
2	(1)	Freq	7.052 GHz	-45.48 dBm
3	(1)	Freq	11.331 GHz	-44.68 dBm
4	(1)	Freq	13.864 GHz	-42.83 dBm

CH Middle (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 2)



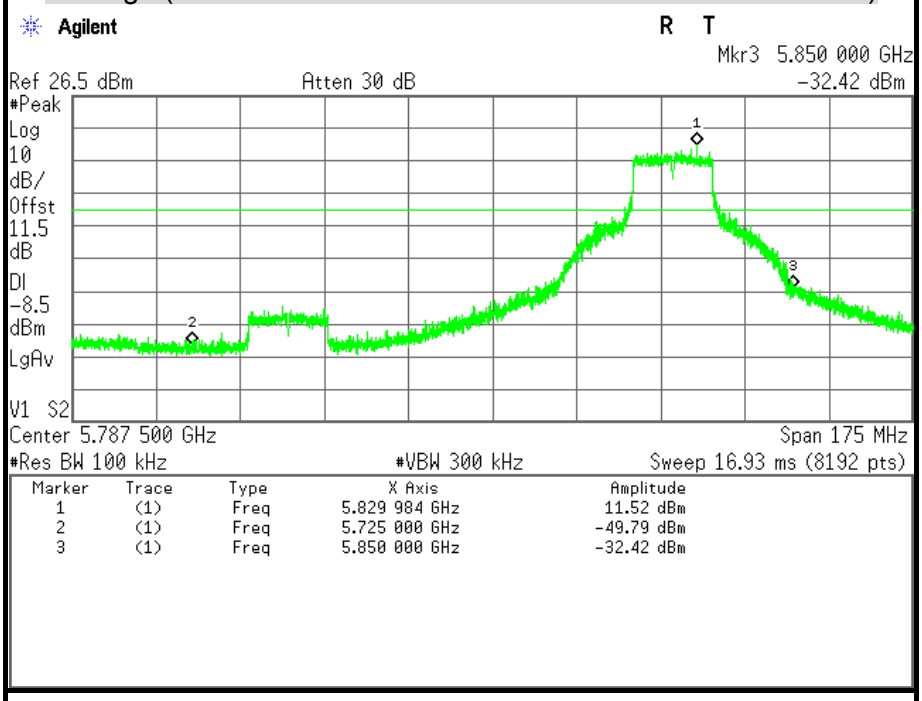
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.777 491 GHz	11.32 dBm
2	(1)	Freq	5.725 000 GHz	-48.18 dBm
3	(1)	Freq	5.850 000 GHz	-50.26 dBm

CH Middle (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 2)



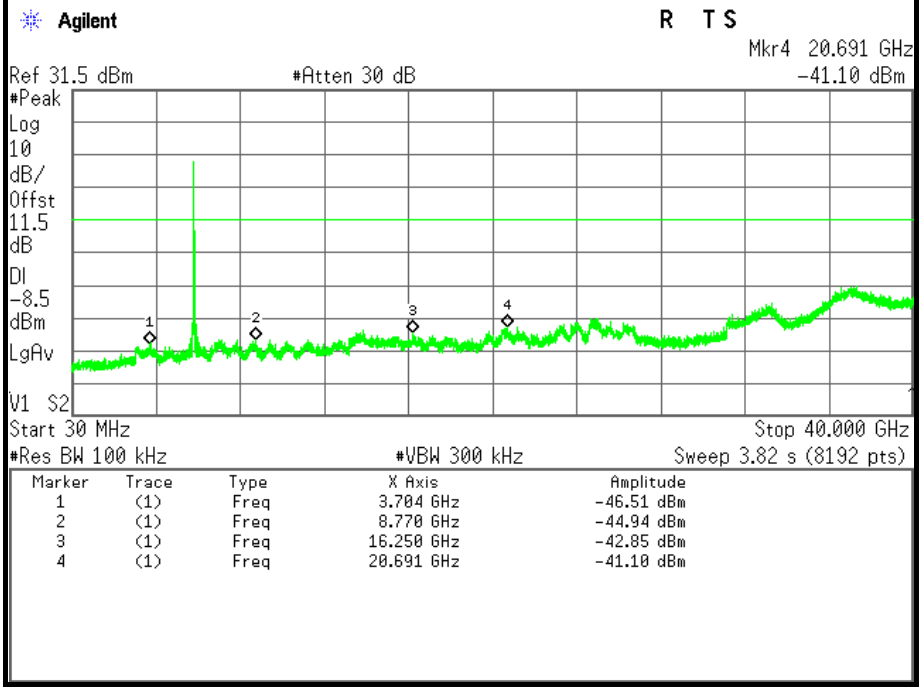
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.641 GHz	-47.10 dBm
2	(1)	Freq	7.018 GHz	-45.29 dBm
3	(1)	Freq	8.657 GHz	-45.67 dBm
4	(1)	Freq	13.859 GHz	-43.23 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11a Mode / Chain 2)



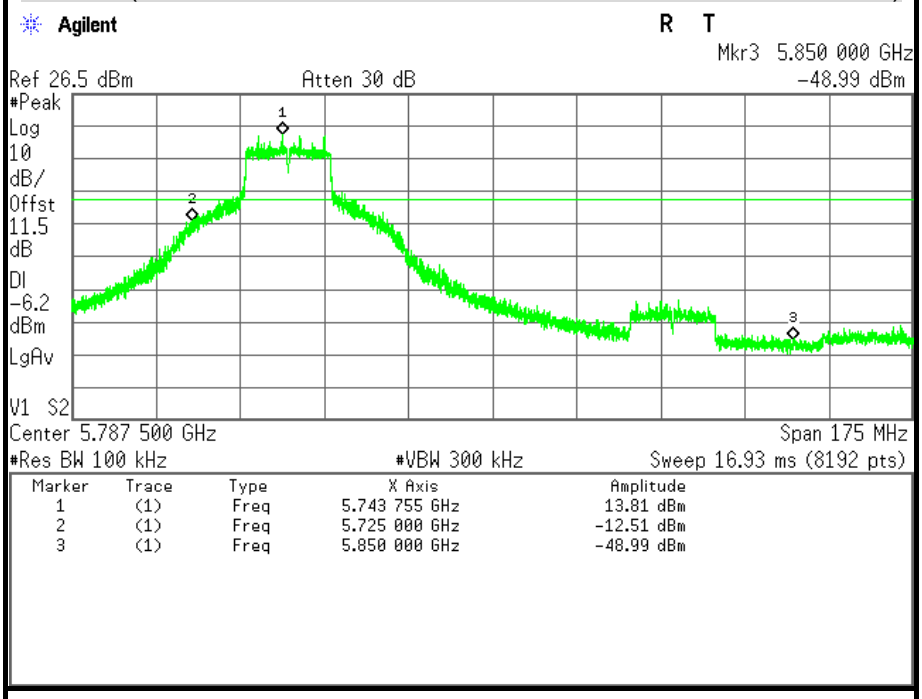
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.829 984 GHz	11.52 dBm
2	(1)	Freq	5.725 000 GHz	-49.79 dBm
3	(1)	Freq	5.850 000 GHz	-32.42 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11a Mode / Chain 2)



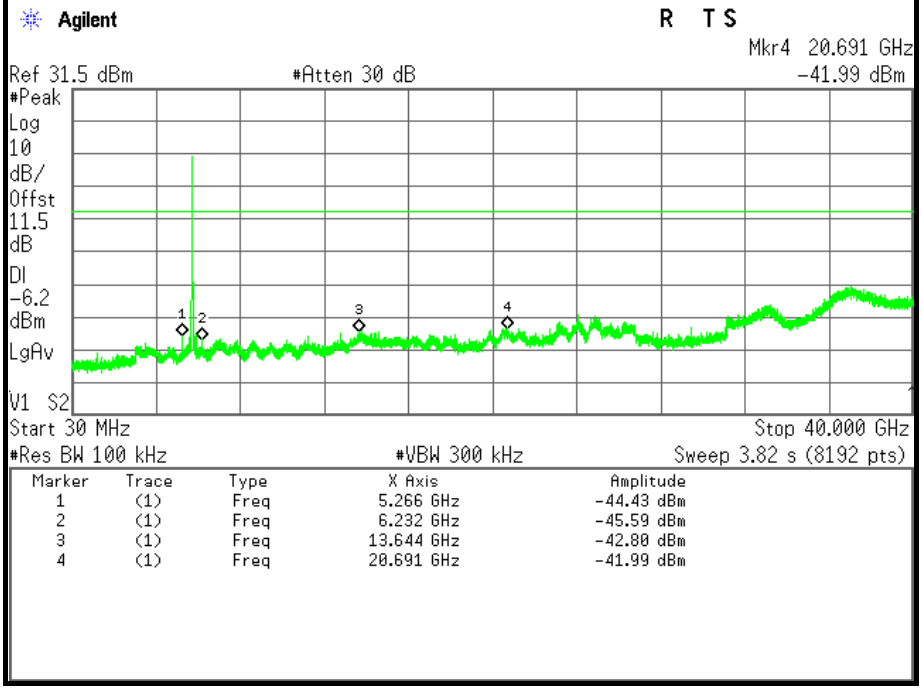
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.704 GHz	-46.51 dBm
2	(1)	Freq	8.770 GHz	-44.94 dBm
3	(1)	Freq	16.250 GHz	-42.85 dBm
4	(1)	Freq	20.691 GHz	-41.10 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 0)



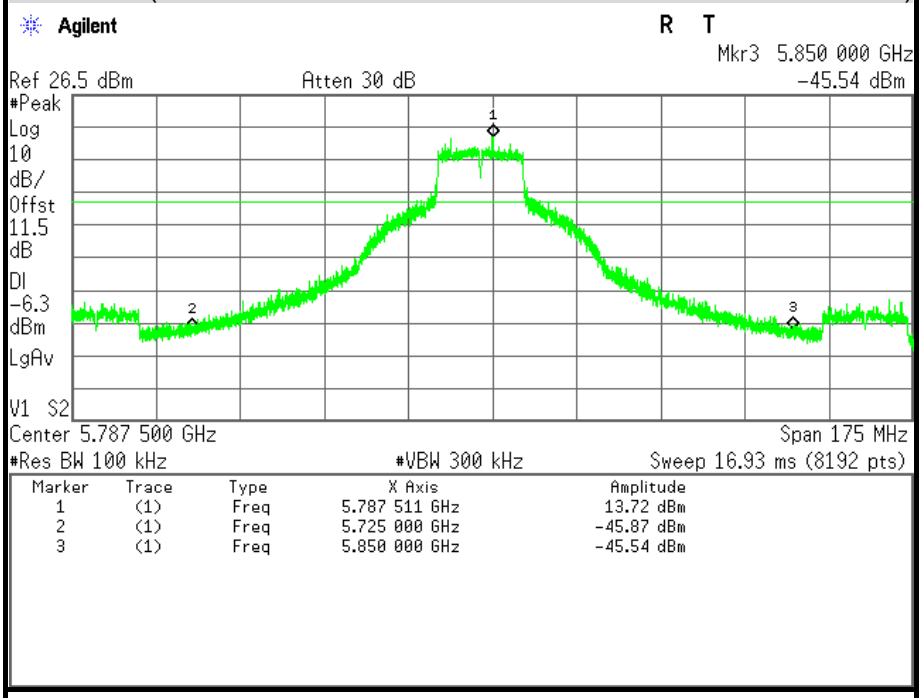
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.743 755 GHz	13.81 dBm
2	(1)	Freq	5.725 000 GHz	-12.51 dBm
3	(1)	Freq	5.850 000 GHz	-48.99 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 0)



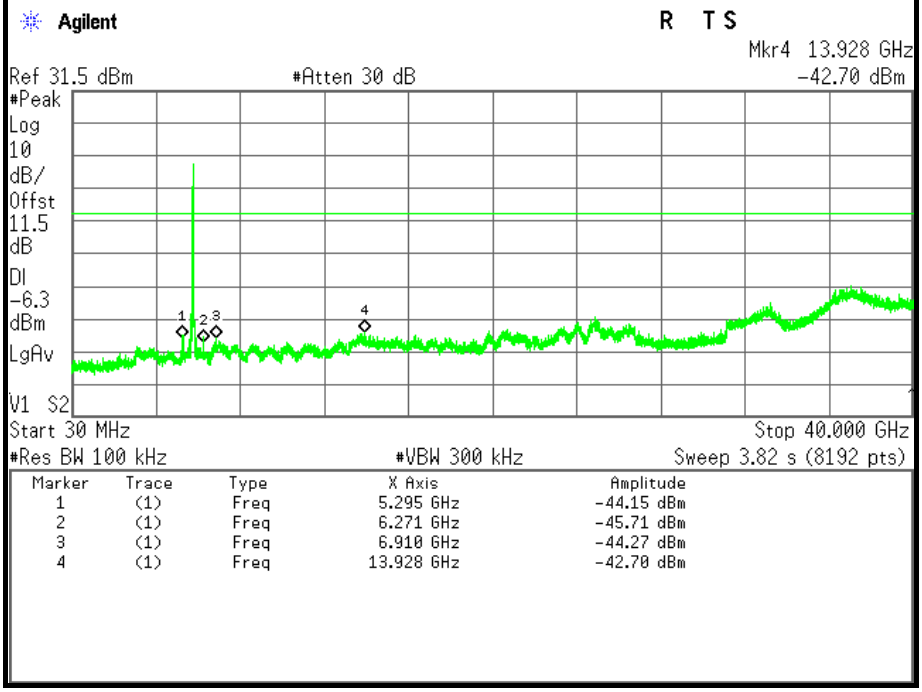
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.266 GHz	-44.43 dBm
2	(1)	Freq	6.232 GHz	-45.59 dBm
3	(1)	Freq	13.644 GHz	-42.80 dBm
4	(1)	Freq	20.691 GHz	-41.99 dBm

CH Middle (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 0)



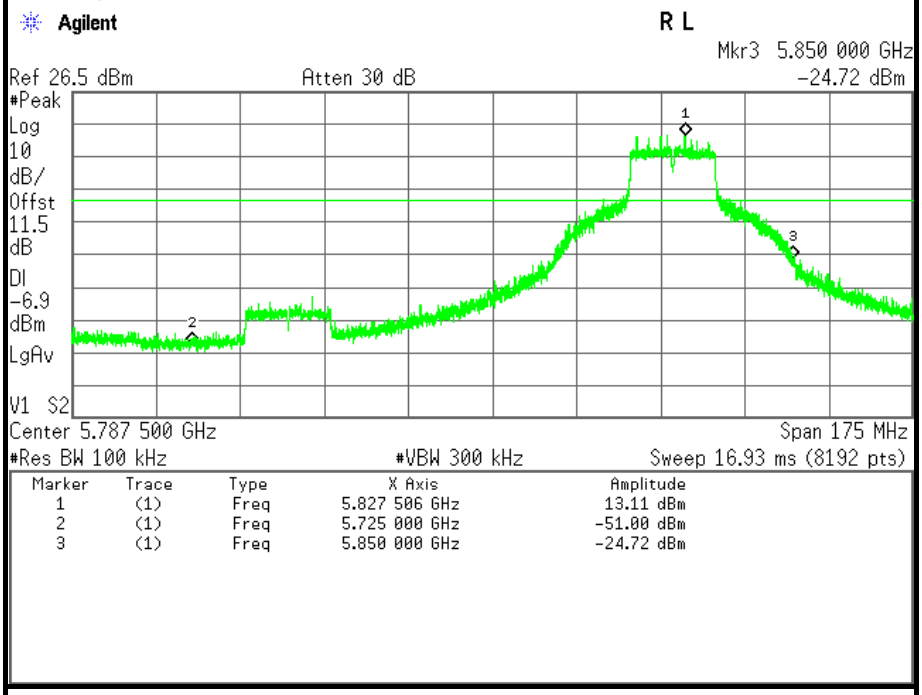
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.787 511 GHz	13.72 dBm
2	(1)	Freq	5.725 000 GHz	-45.87 dBm
3	(1)	Freq	5.850 000 GHz	-45.54 dBm

CH Middle (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 0)



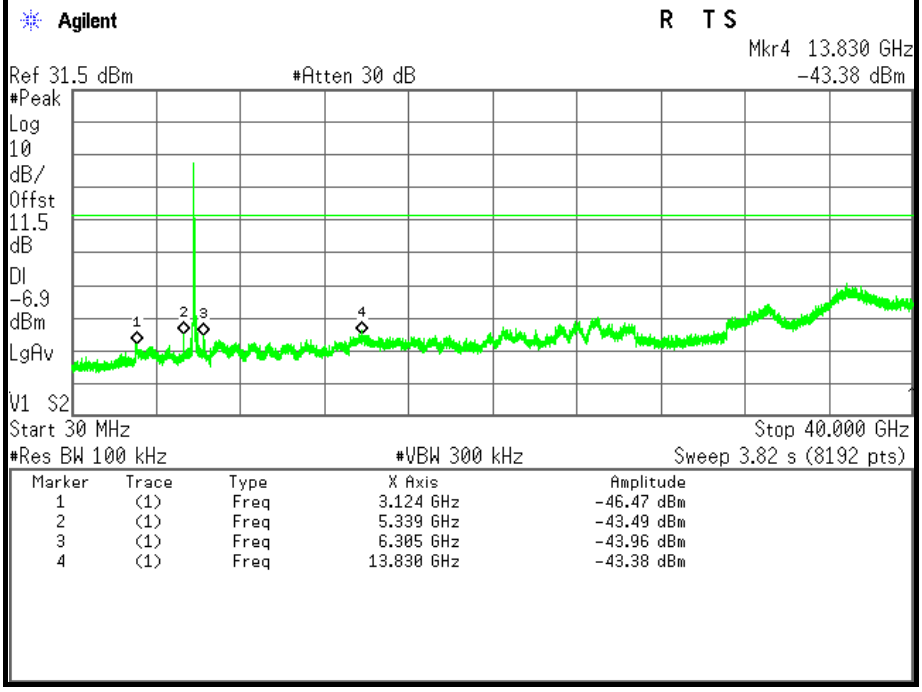
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.295 GHz	-44.15 dBm
2	(1)	Freq	6.271 GHz	-45.71 dBm
3	(1)	Freq	6.910 GHz	-44.27 dBm
4	(1)	Freq	13.928 GHz	-42.70 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 0)



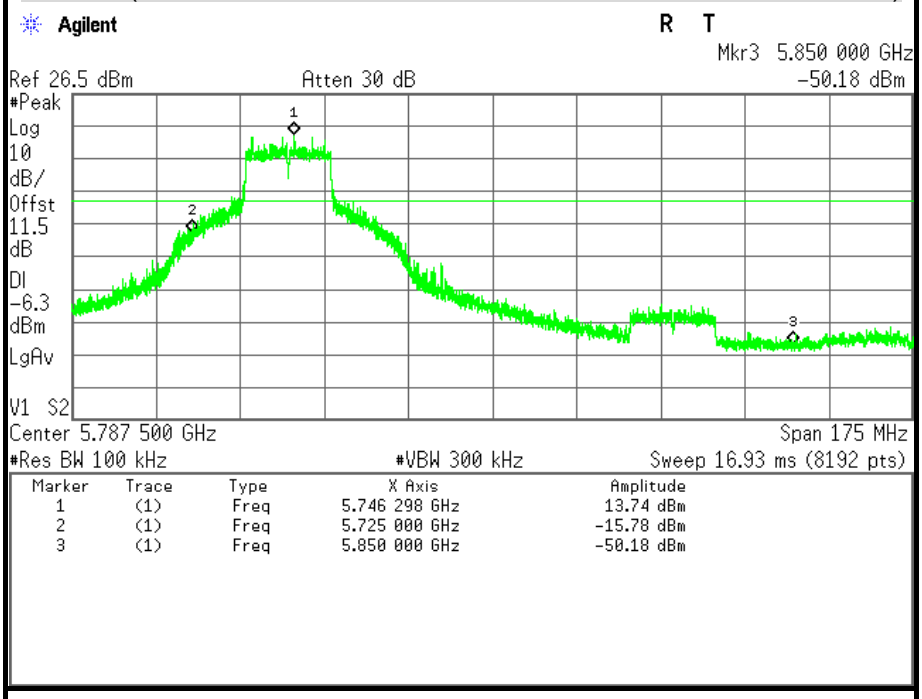
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.827 506 GHz	13.11 dBm
2	(1)	Freq	5.725 000 GHz	-51.00 dBm
3	(1)	Freq	5.850 000 GHz	-24.72 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 0)



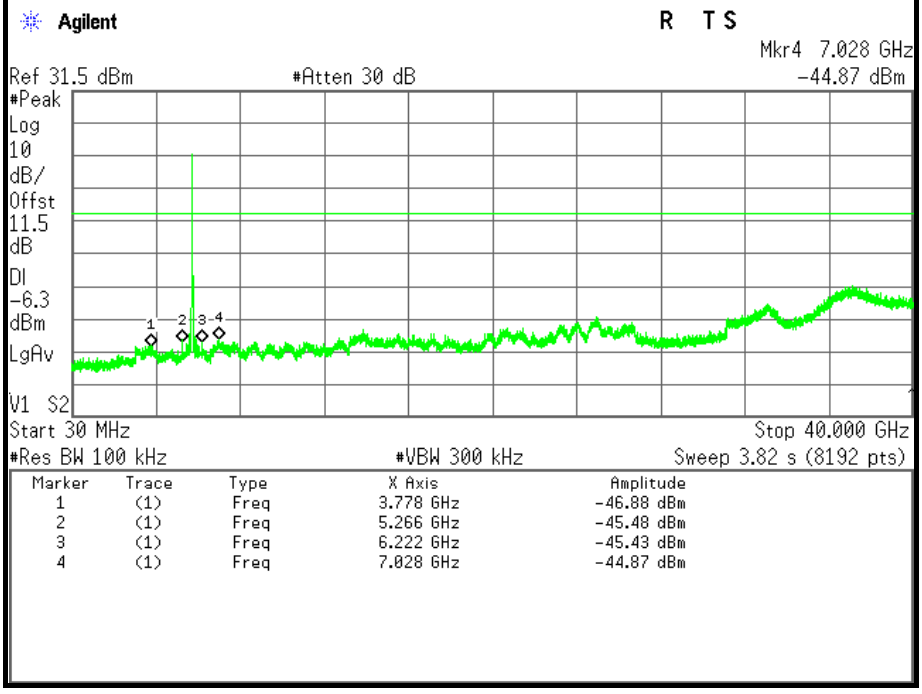
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.124 GHz	-46.47 dBm
2	(1)	Freq	5.339 GHz	-43.49 dBm
3	(1)	Freq	6.305 GHz	-43.96 dBm
4	(1)	Freq	13.830 GHz	-43.38 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 1)



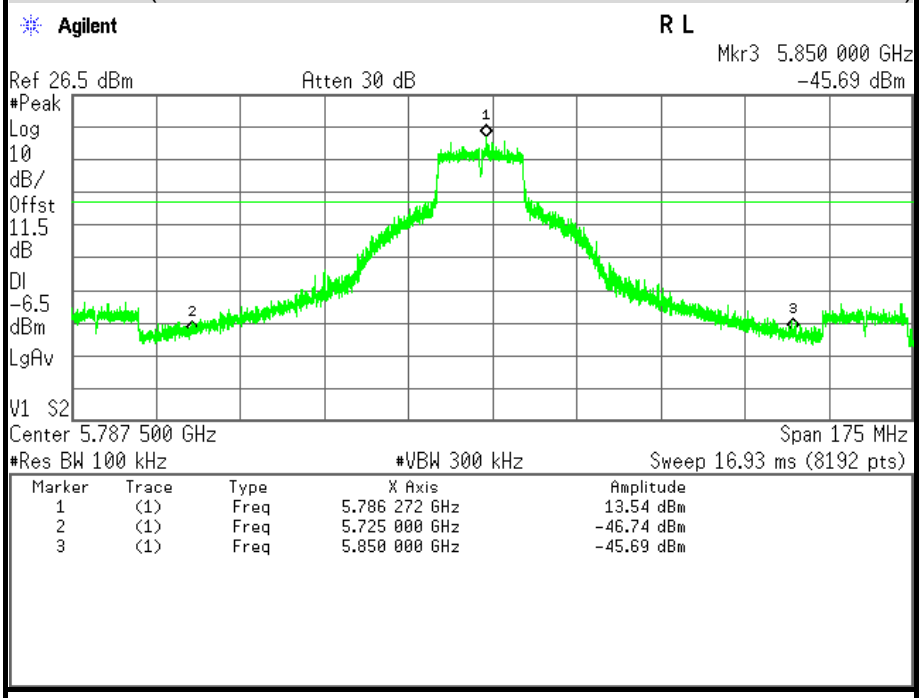
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.746 298 GHz	13.74 dBm
2	(1)	Freq	5.725 000 GHz	-15.78 dBm
3	(1)	Freq	5.850 000 GHz	-50.18 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 1)



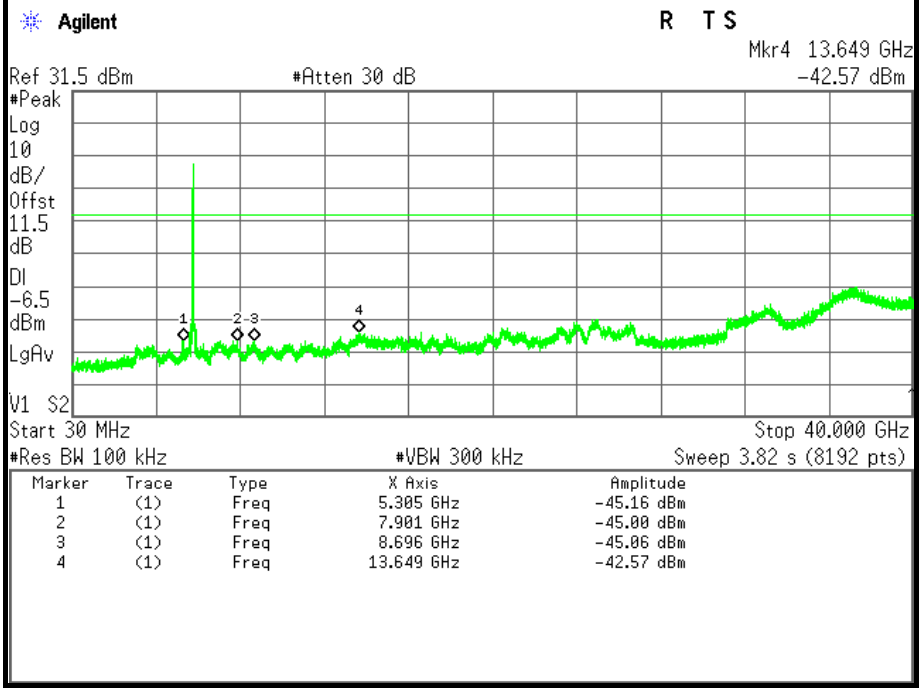
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.778 GHz	-46.88 dBm
2	(1)	Freq	5.266 GHz	-45.48 dBm
3	(1)	Freq	6.222 GHz	-45.43 dBm
4	(1)	Freq	7.028 GHz	-44.87 dBm

CH Middle (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 1)



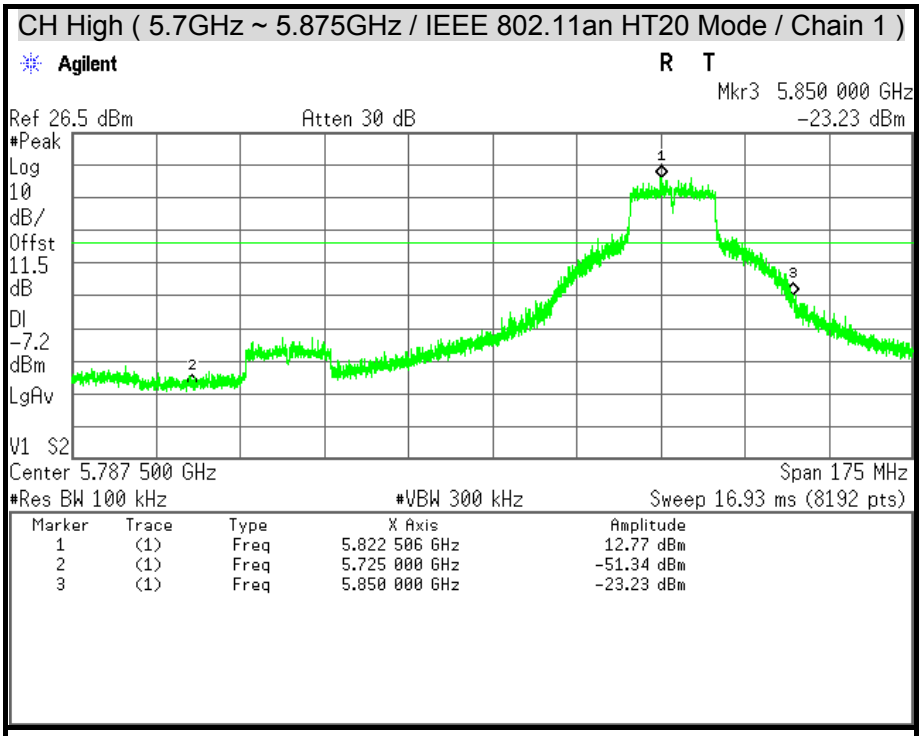
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.786 272 GHz	13.54 dBm
2	(1)	Freq	5.725 000 GHz	-46.74 dBm
3	(1)	Freq	5.850 000 GHz	-45.69 dBm

CH Middle (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 1)



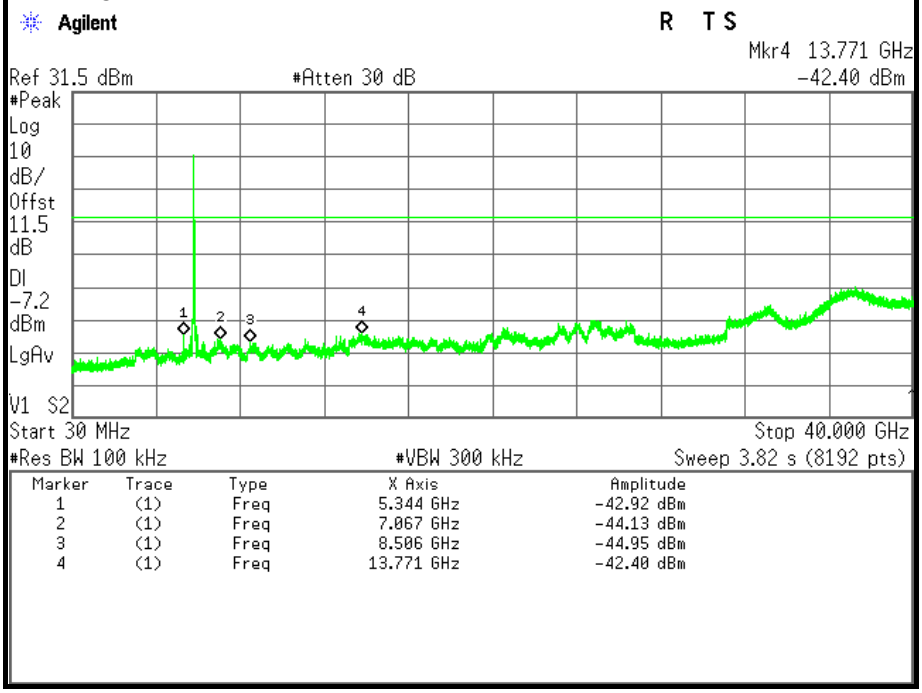
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.305 GHz	-45.16 dBm
2	(1)	Freq	7.901 GHz	-45.00 dBm
3	(1)	Freq	8.696 GHz	-45.06 dBm
4	(1)	Freq	13.649 GHz	-42.57 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 1)



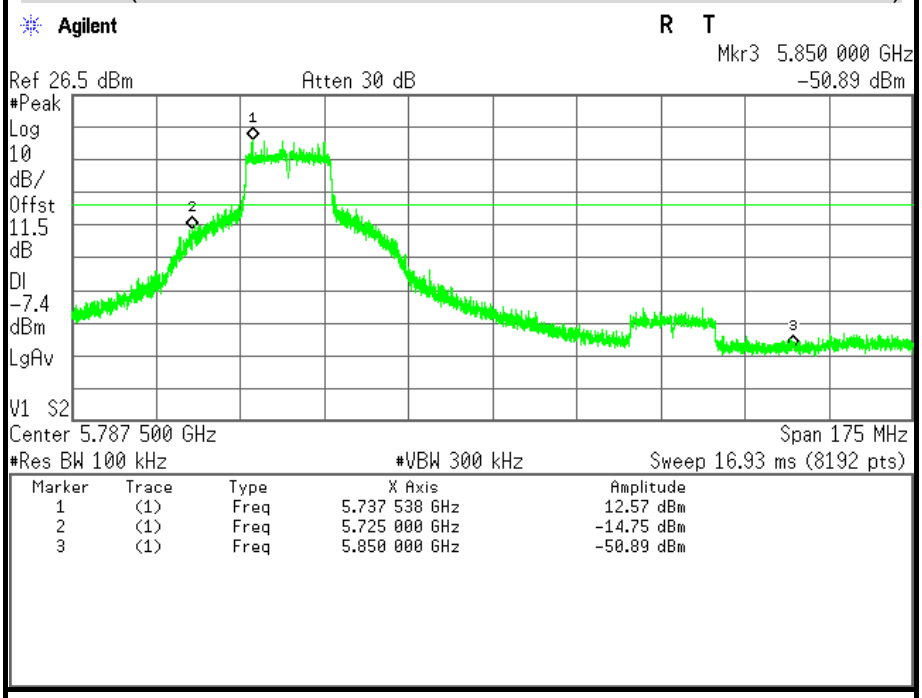
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.822 506 GHz	12.77 dBm
2	(1)	Freq	5.725 000 GHz	-51.34 dBm
3	(1)	Freq	5.850 000 GHz	-23.23 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 1)



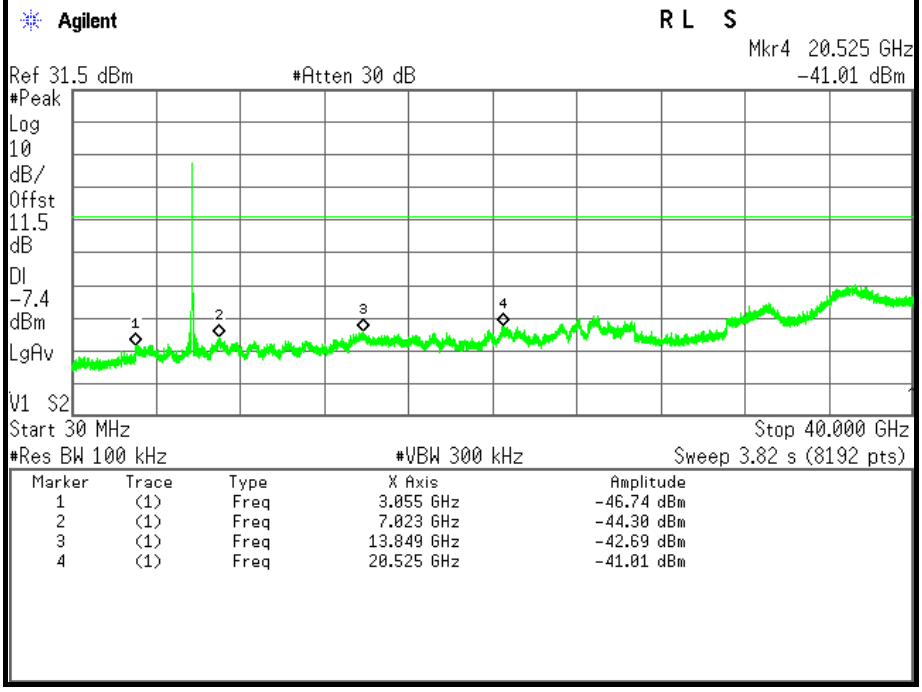
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.344 GHz	-42.92 dBm
2	(1)	Freq	7.067 GHz	-44.13 dBm
3	(1)	Freq	8.506 GHz	-44.95 dBm
4	(1)	Freq	13.771 GHz	-42.40 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 2)



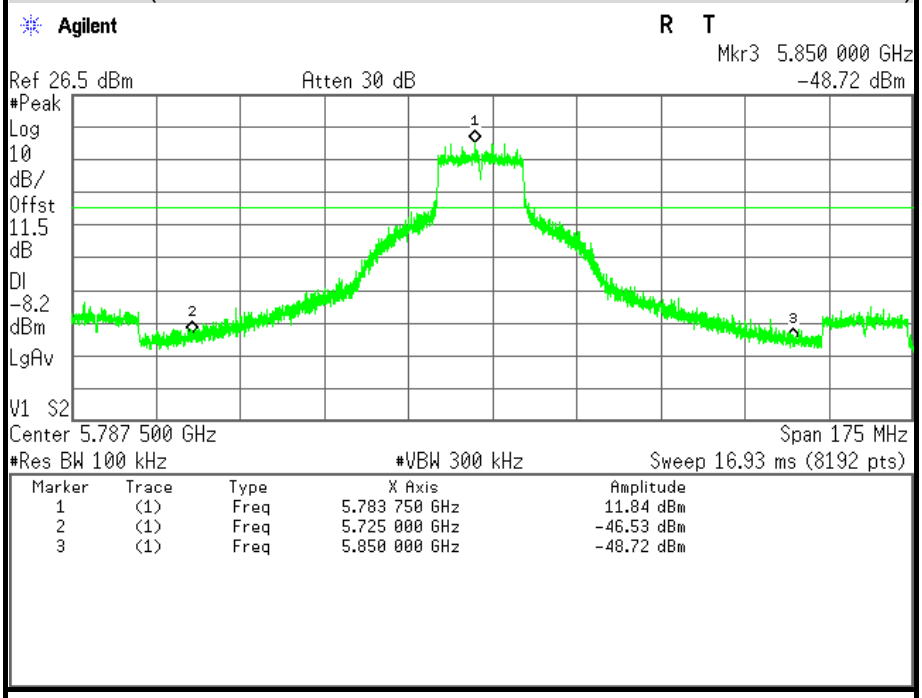
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.737 538 GHz	12.57 dBm
2	(1)	Freq	5.725 000 GHz	-14.75 dBm
3	(1)	Freq	5.850 000 GHz	-50.89 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 2)



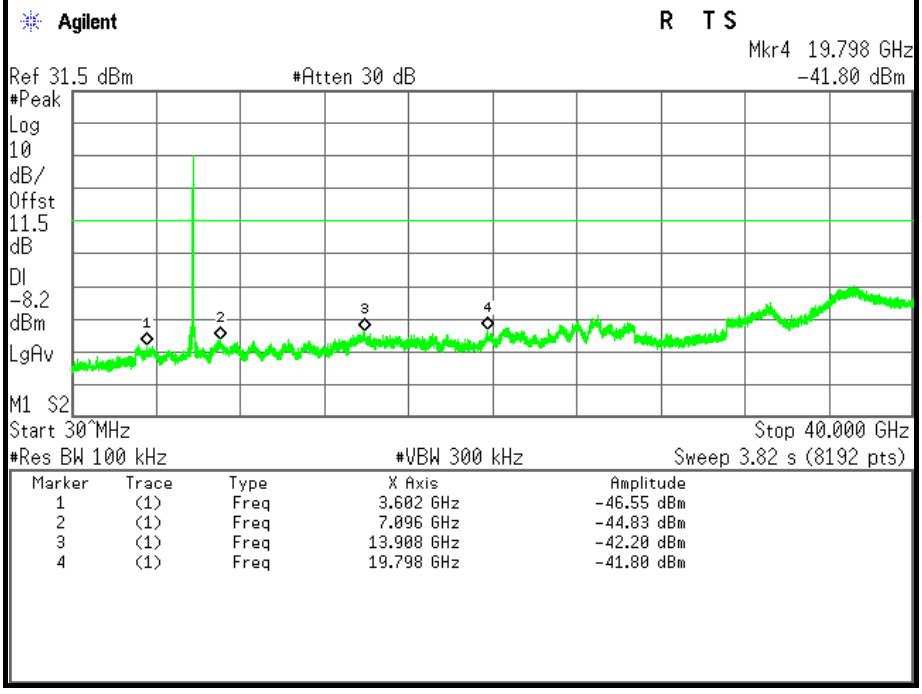
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.055 GHz	-46.74 dBm
2	(1)	Freq	7.023 GHz	-44.30 dBm
3	(1)	Freq	13.849 GHz	-42.69 dBm
4	(1)	Freq	20.525 GHz	-41.01 dBm

CH Middle (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 2)



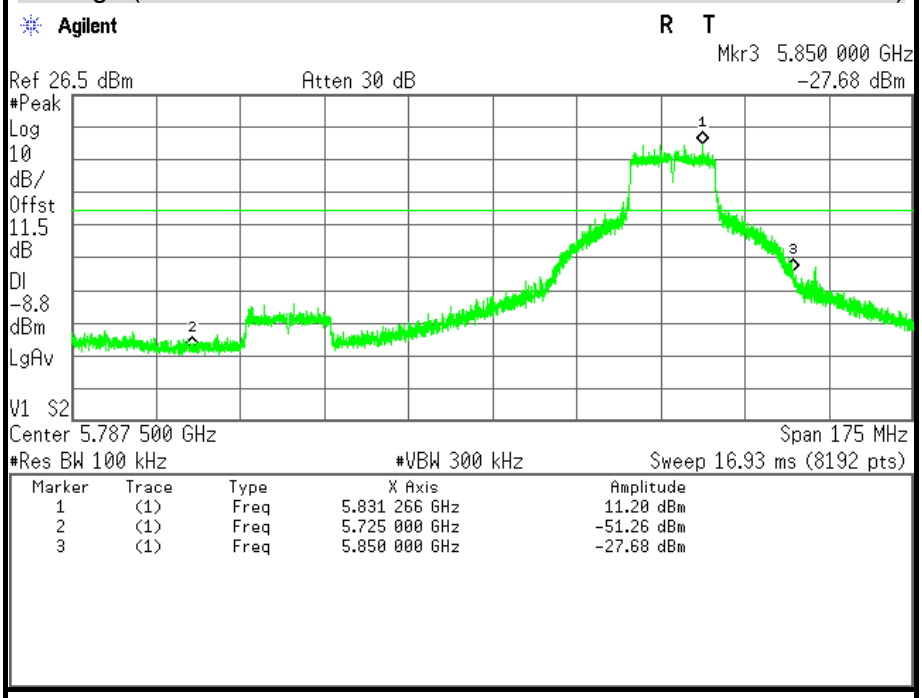
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.783 750 GHz	11.84 dBm
2	(1)	Freq	5.725 000 GHz	-46.53 dBm
3	(1)	Freq	5.850 000 GHz	-48.72 dBm

CH Middle (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 2)



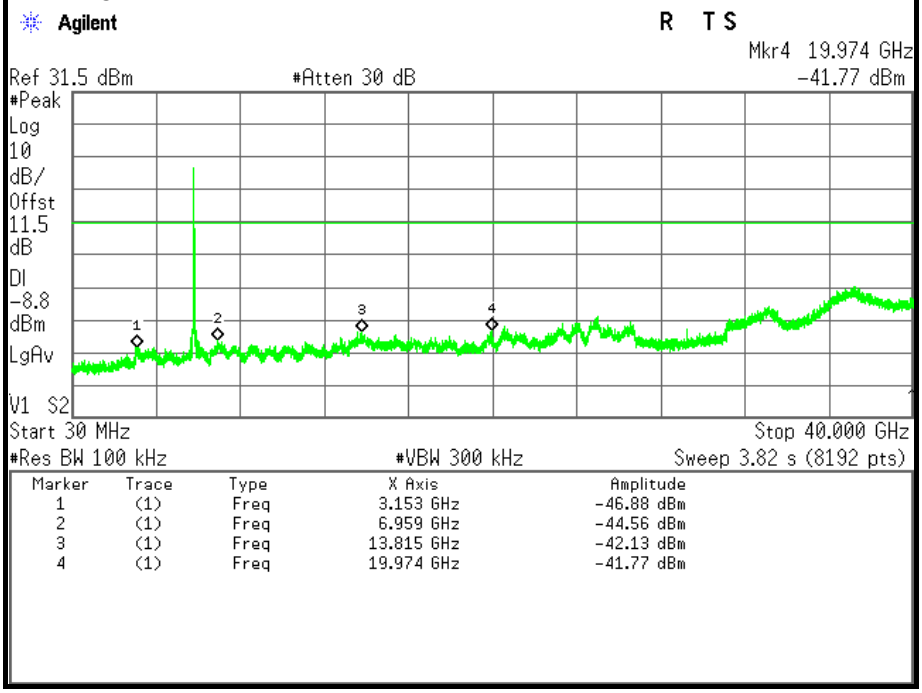
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.602 GHz	-46.55 dBm
2	(1)	Freq	7.096 GHz	-44.83 dBm
3	(1)	Freq	13.908 GHz	-42.20 dBm
4	(1)	Freq	19.798 GHz	-41.80 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11an HT20 Mode / Chain 2)



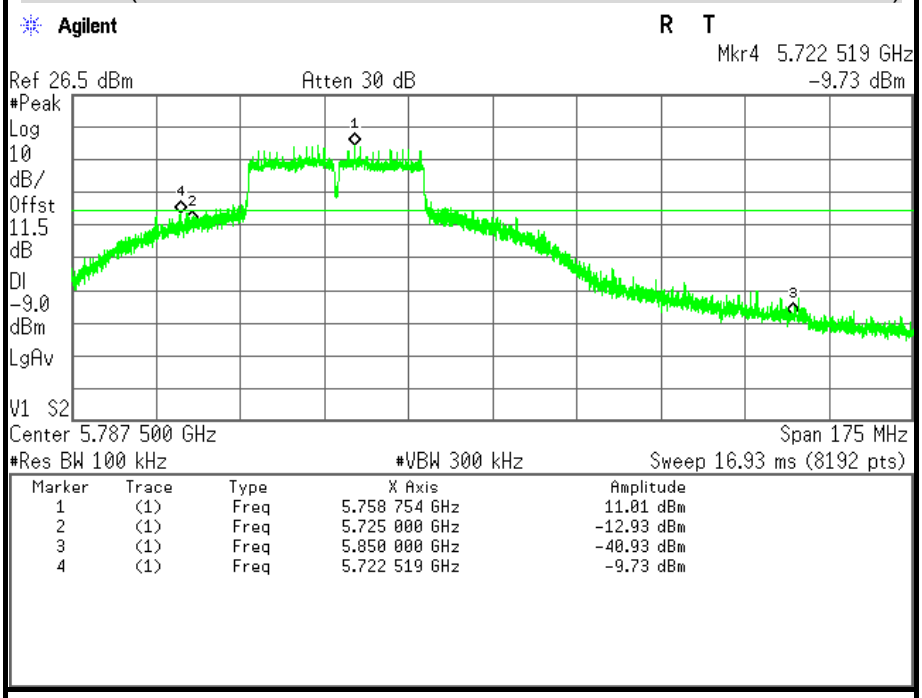
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.831 266 GHz	11.20 dBm
2	(1)	Freq	5.725 000 GHz	-51.26 dBm
3	(1)	Freq	5.850 000 GHz	-27.68 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11an HT20 Mode / Chain 2)



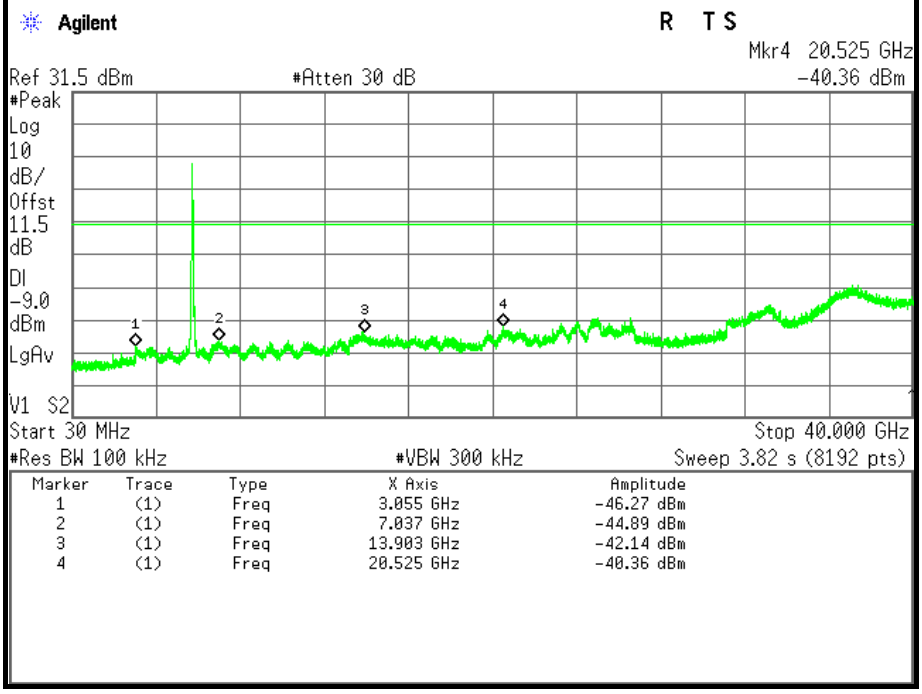
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.153 GHz	-46.88 dBm
2	(1)	Freq	6.959 GHz	-44.56 dBm
3	(1)	Freq	13.815 GHz	-42.13 dBm
4	(1)	Freq	19.974 GHz	-41.77 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11an HT40 Mode / Chain 0)



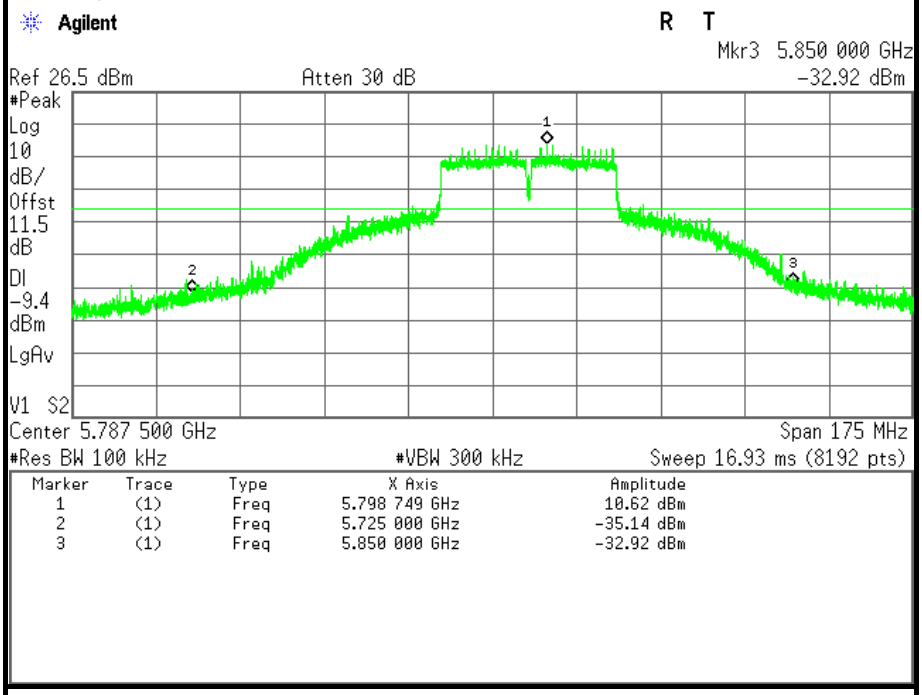
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.758 754 GHz	11.01 dBm
2	(1)	Freq	5.725 000 GHz	-12.93 dBm
3	(1)	Freq	5.850 000 GHz	-40.93 dBm
4	(1)	Freq	5.722 519 GHz	-9.73 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11an HT40 Mode / Chain 0)



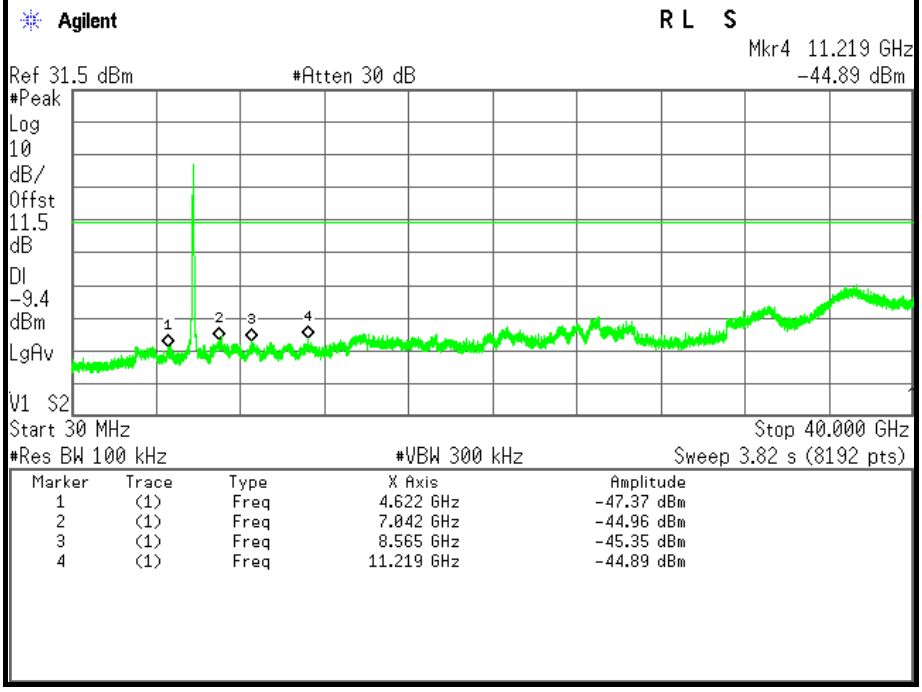
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.055 GHz	-46.27 dBm
2	(1)	Freq	7.037 GHz	-44.89 dBm
3	(1)	Freq	13.903 GHz	-42.14 dBm
4	(1)	Freq	20.525 GHz	-40.36 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11an HT40 Mode / Chain 0)



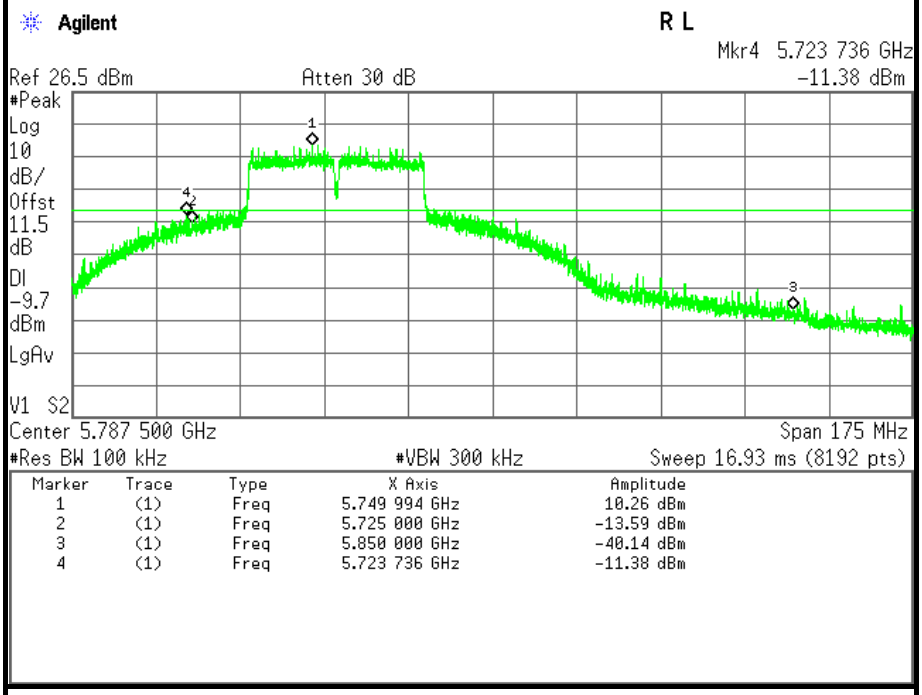
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.798 749 GHz	10.62 dBm
2	(1)	Freq	5.725 000 GHz	-35.14 dBm
3	(1)	Freq	5.850 000 GHz	-32.92 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11an HT40 Mode / Chain 0)



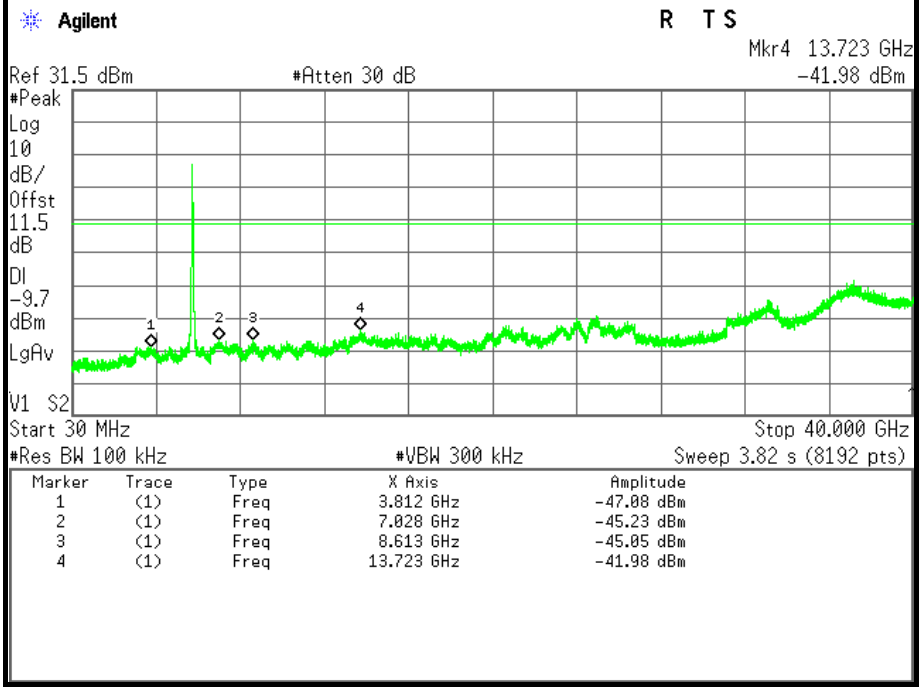
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	4.622 GHz	-47.37 dBm
2	(1)	Freq	7.042 GHz	-44.96 dBm
3	(1)	Freq	8.565 GHz	-45.35 dBm
4	(1)	Freq	11.219 GHz	-44.89 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11an HT40 Mode / Chain 1)



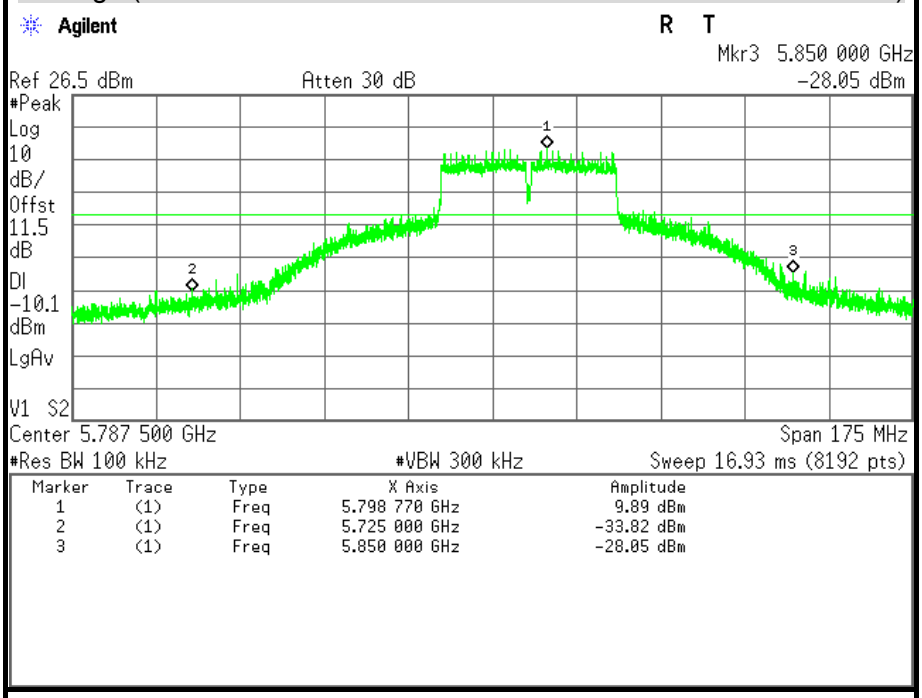
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.749 994 GHz	10.26 dBm
2	(1)	Freq	5.725 000 GHz	-13.59 dBm
3	(1)	Freq	5.850 000 GHz	-40.14 dBm
4	(1)	Freq	5.723 736 GHz	-11.38 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11an HT40 Mode / Chain 1)



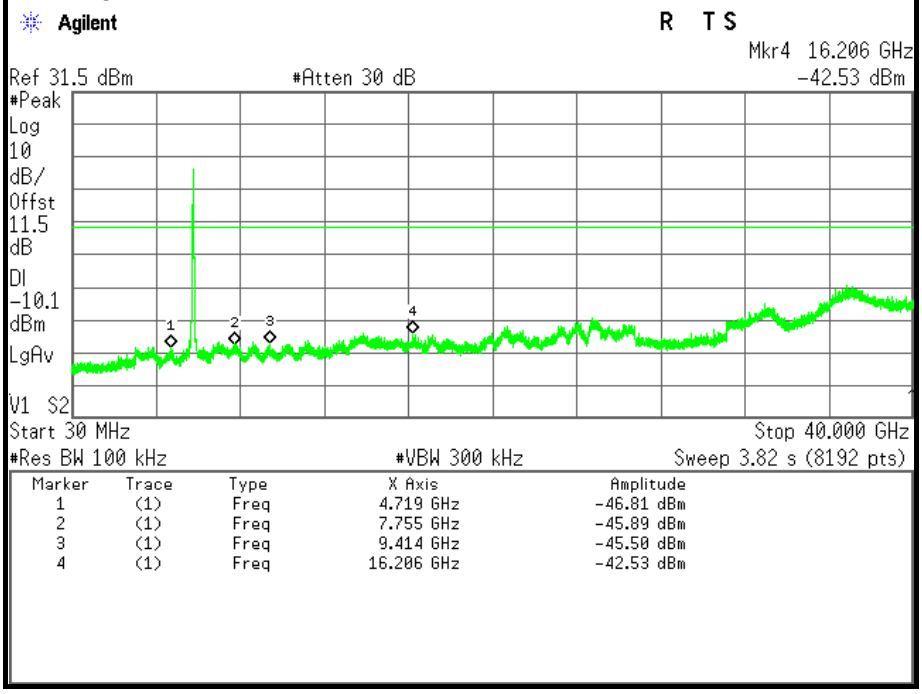
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.812 GHz	-47.08 dBm
2	(1)	Freq	7.028 GHz	-45.23 dBm
3	(1)	Freq	8.613 GHz	-45.05 dBm
4	(1)	Freq	13.723 GHz	-41.98 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11an HT40 Mode / Chain 1)



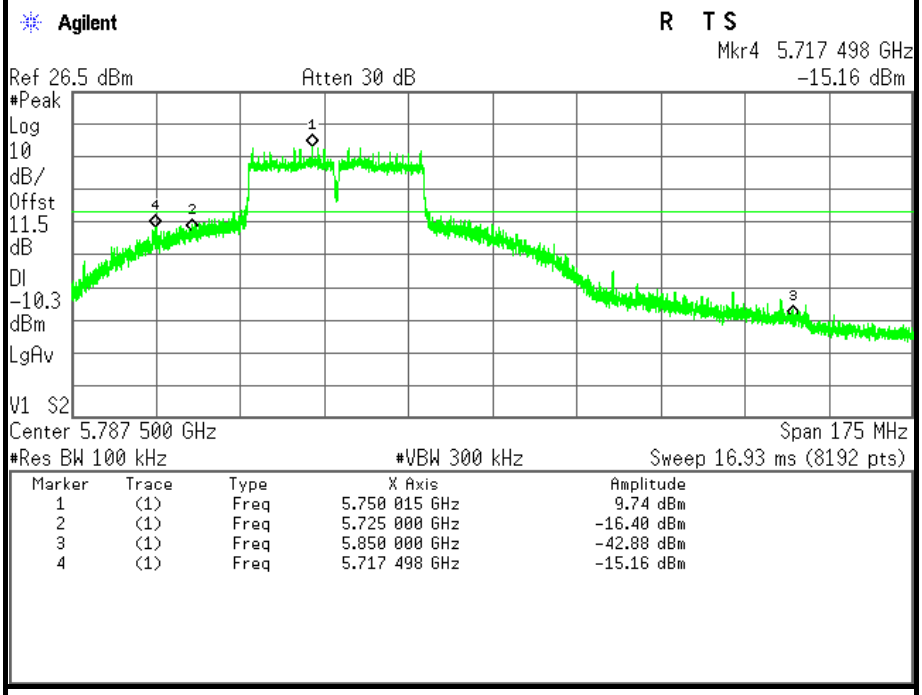
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.798 770 GHz	9.89 dBm
2	(1)	Freq	5.725 000 GHz	-33.82 dBm
3	(1)	Freq	5.850 000 GHz	-28.05 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11an HT40 Mode / Chain 1)



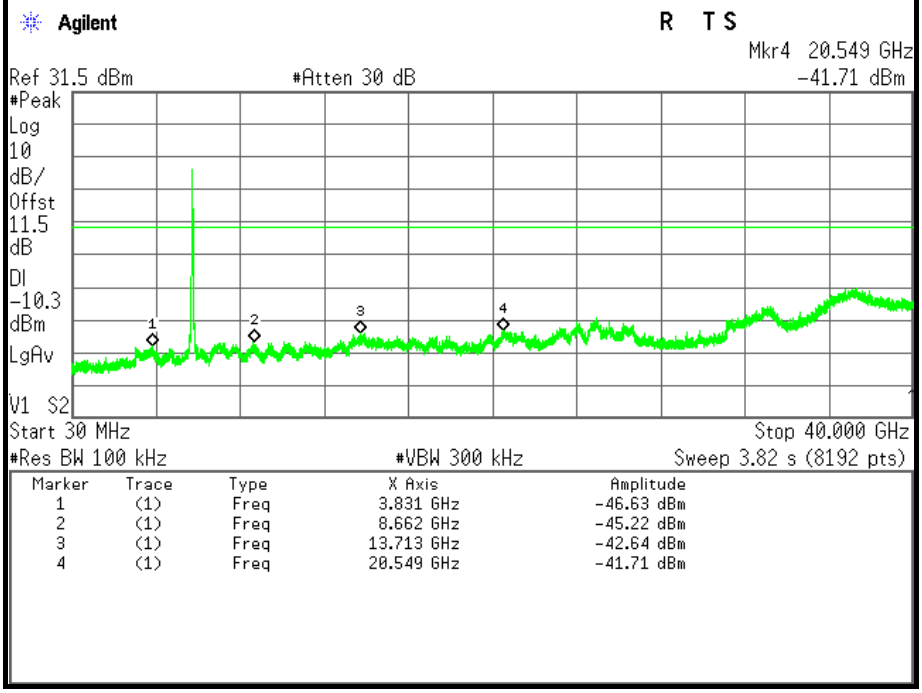
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	4.719 GHz	-46.81 dBm
2	(1)	Freq	7.755 GHz	-45.89 dBm
3	(1)	Freq	9.414 GHz	-45.50 dBm
4	(1)	Freq	16.206 GHz	-42.53 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11an HT40 Mode / Chain 2)



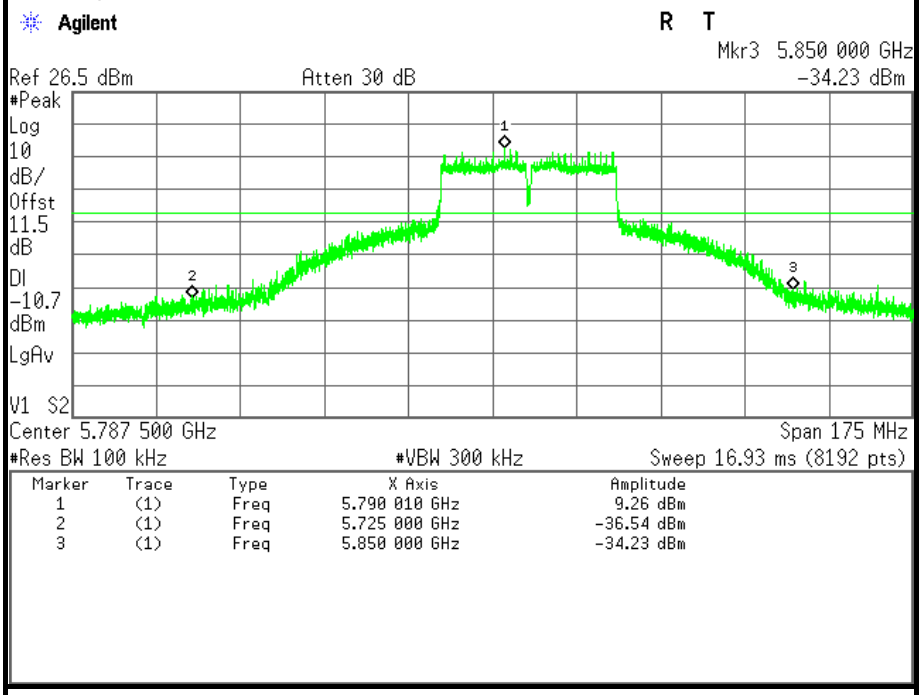
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.750 015 GHz	9.74 dBm
2	(1)	Freq	5.725 000 GHz	-16.40 dBm
3	(1)	Freq	5.850 000 GHz	-42.88 dBm
4	(1)	Freq	5.717 498 GHz	-15.16 dBm

CH Low (30MHz ~ 40GHz / IEEE 802.11an HT40 Mode / Chain 2)



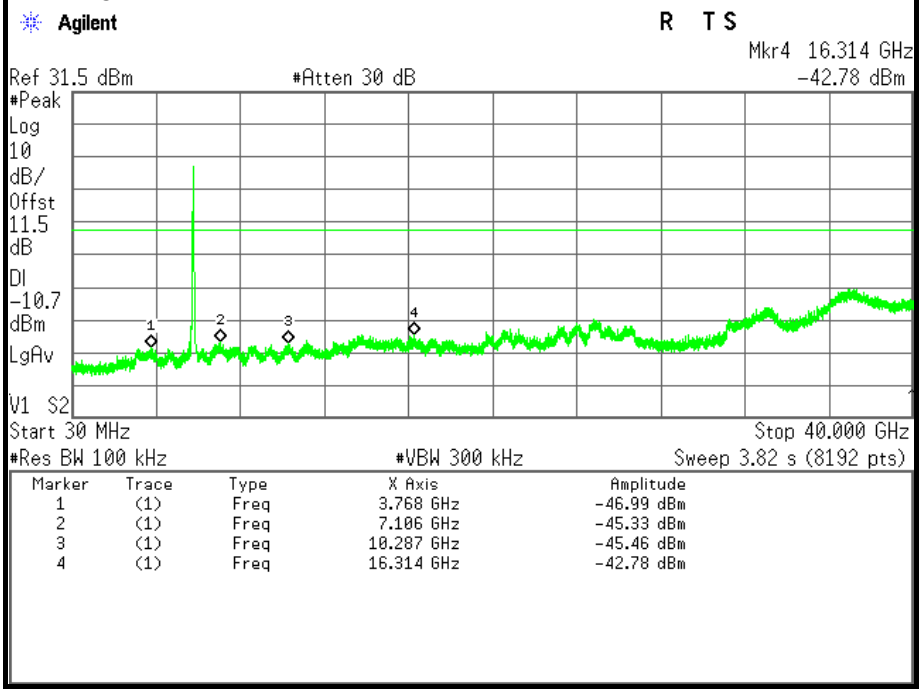
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.831 GHz	-46.63 dBm
2	(1)	Freq	8.662 GHz	-45.22 dBm
3	(1)	Freq	13.713 GHz	-42.64 dBm
4	(1)	Freq	20.549 GHz	-41.71 dBm

CH High (5.7GHz ~ 5.875GHz / IEEE 802.11an HT40 Mode / Chain 2)



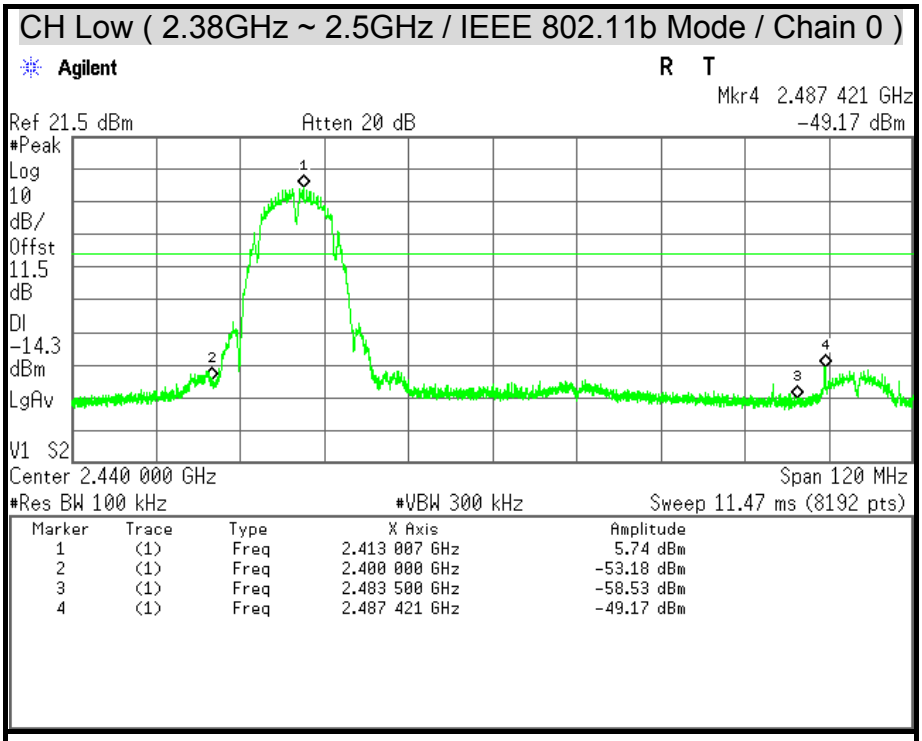
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.790 010 GHz	9.26 dBm
2	(1)	Freq	5.725 000 GHz	-36.54 dBm
3	(1)	Freq	5.850 000 GHz	-34.23 dBm

CH High (30MHz ~ 40GHz / IEEE 802.11an HT40 Mode / Chain 2)



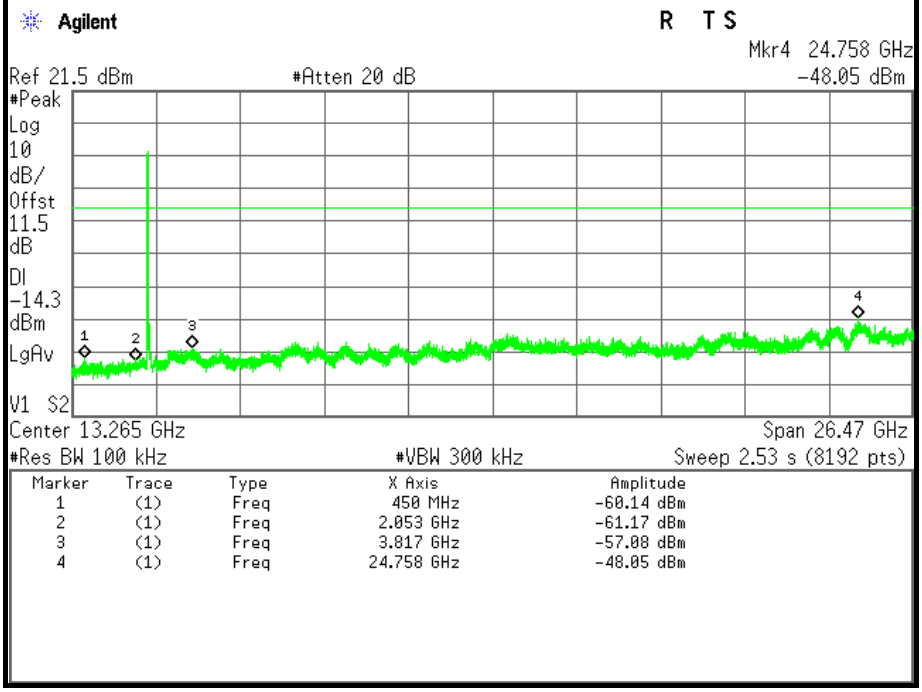
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.768 GHz	-46.99 dBm
2	(1)	Freq	7.106 GHz	-45.33 dBm
3	(1)	Freq	10.287 GHz	-45.46 dBm
4	(1)	Freq	16.314 GHz	-42.78 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 0)



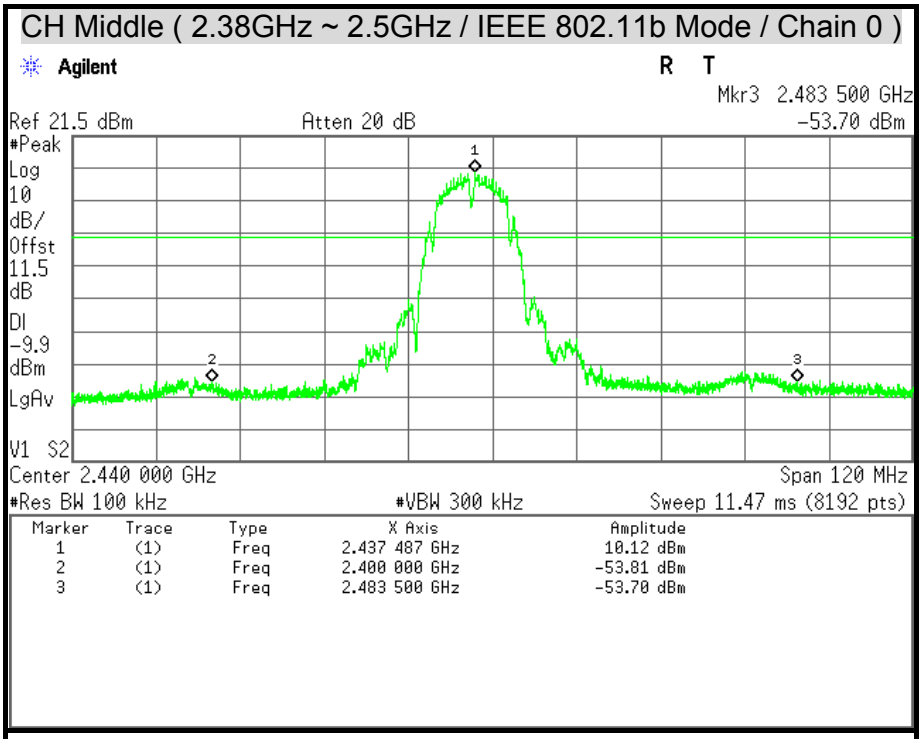
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.413 007 GHz	5.74 dBm
2	(1)	Freq	2.400 000 GHz	-53.18 dBm
3	(1)	Freq	2.483 500 GHz	-58.53 dBm
4	(1)	Freq	2.487 421 GHz	-49.17 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 0)



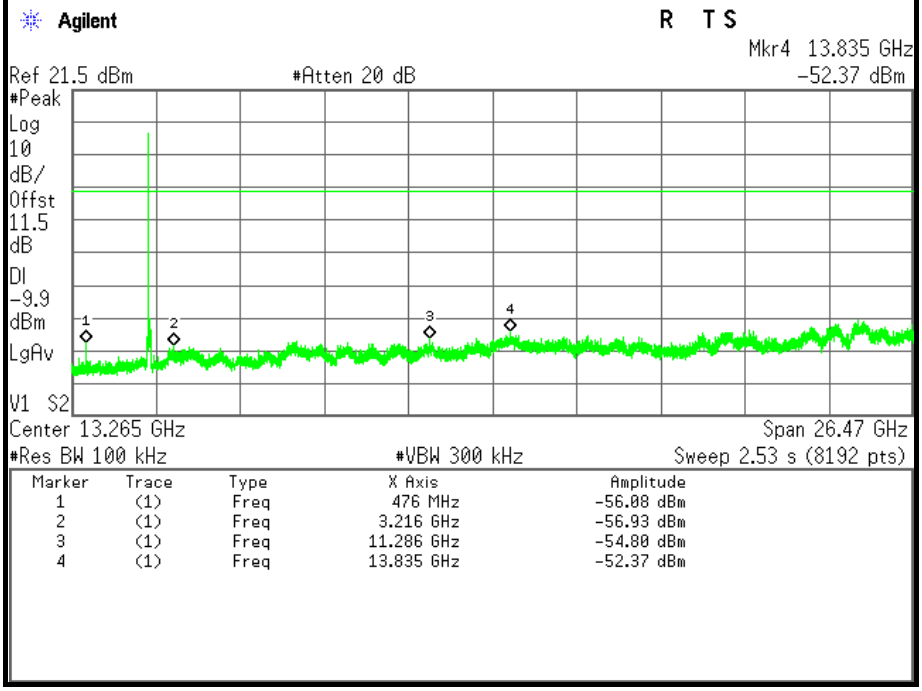
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	450 MHz	-60.14 dBm
2	(1)	Freq	2.053 GHz	-61.17 dBm
3	(1)	Freq	3.817 GHz	-57.08 dBm
4	(1)	Freq	24.758 GHz	-48.05 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 0)



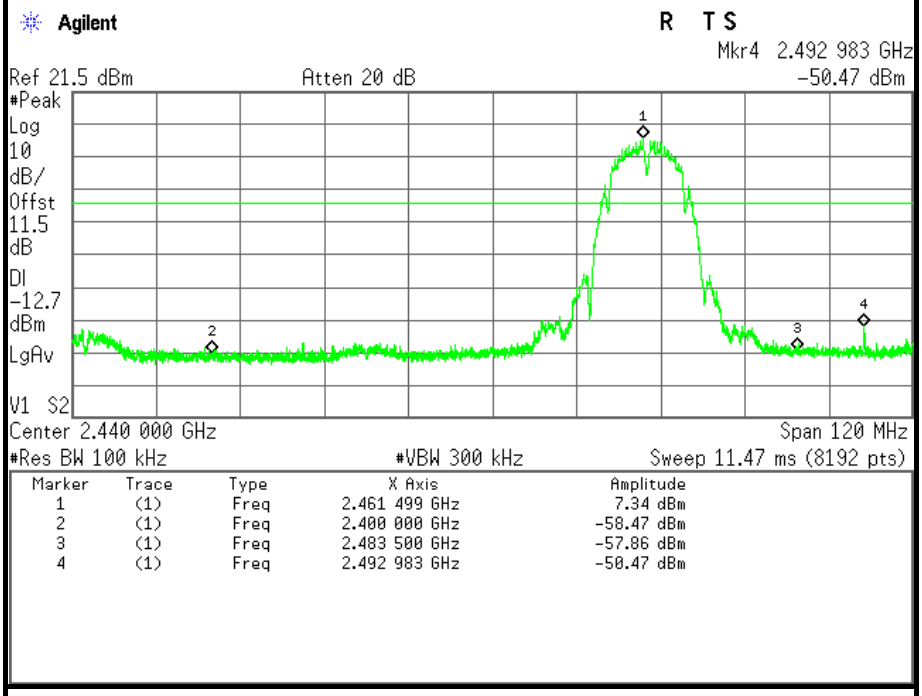
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.437 487 GHz	10.12 dBm
2	(1)	Freq	2.400 000 GHz	-53.81 dBm
3	(1)	Freq	2.483 500 GHz	-53.70 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 0)



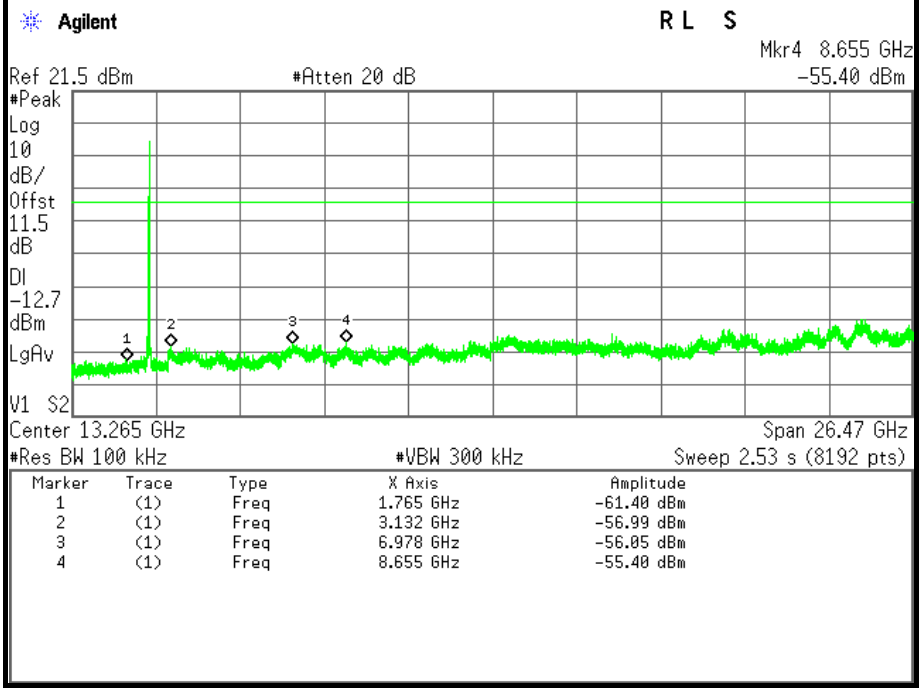
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	476 MHz	-56.08 dBm
2	(1)	Freq	3.216 GHz	-56.93 dBm
3	(1)	Freq	11.286 GHz	-54.80 dBm
4	(1)	Freq	13.835 GHz	-52.37 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 0)



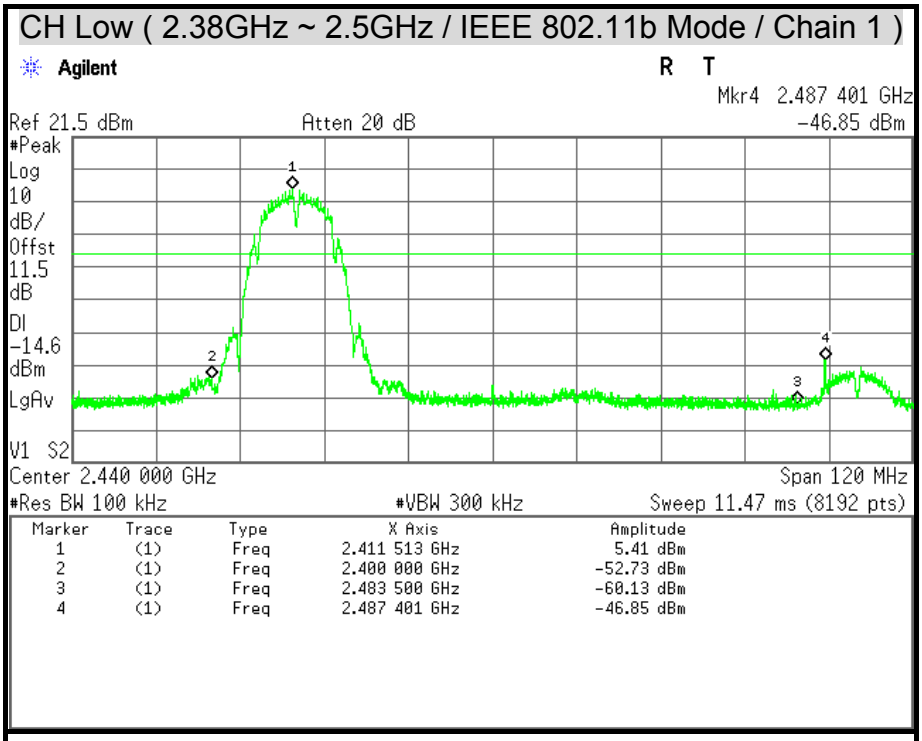
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.461 499 GHz	7.34 dBm
2	(1)	Freq	2.400 000 GHz	-58.47 dBm
3	(1)	Freq	2.483 500 GHz	-57.86 dBm
4	(1)	Freq	2.492 983 GHz	-50.47 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 0)



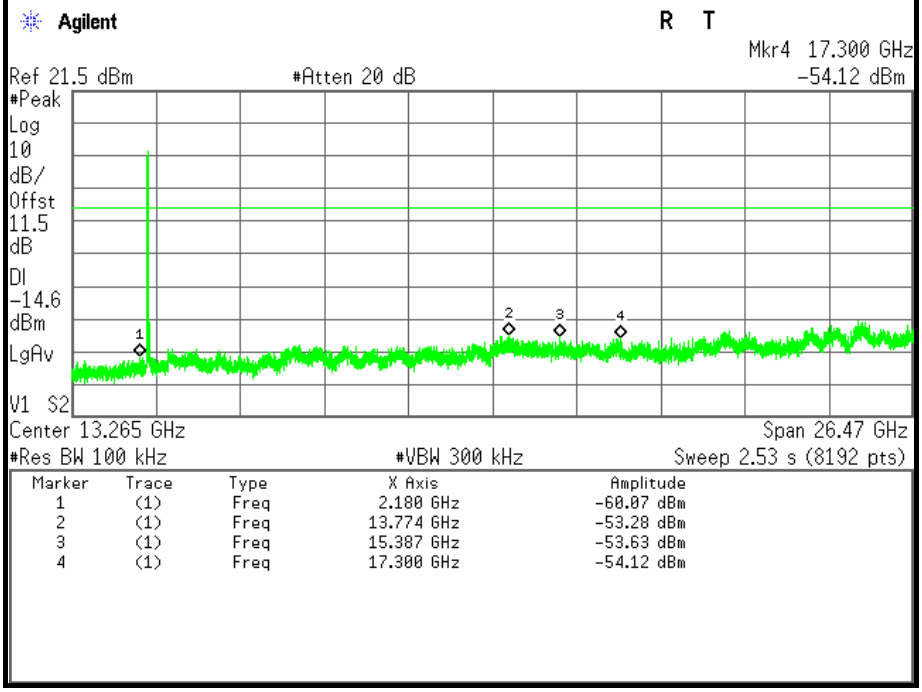
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.765 GHz	-61.40 dBm
2	(1)	Freq	3.132 GHz	-56.99 dBm
3	(1)	Freq	6.978 GHz	-56.05 dBm
4	(1)	Freq	8.655 GHz	-55.40 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 1)



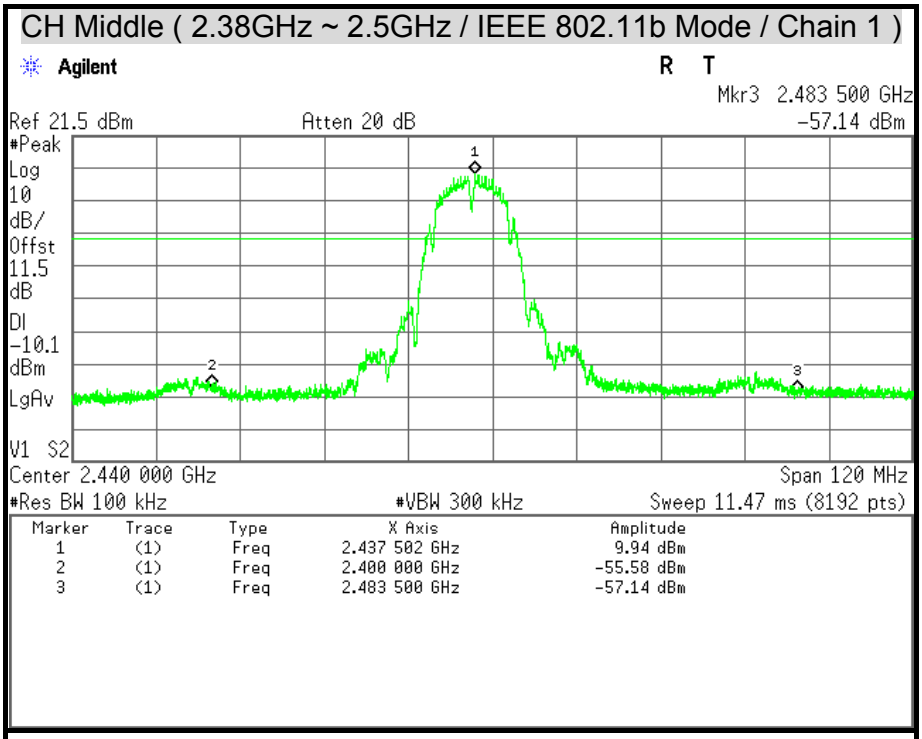
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.411 513 GHz	5.41 dBm
2	(1)	Freq	2.400 000 GHz	-52.73 dBm
3	(1)	Freq	2.483 500 GHz	-60.13 dBm
4	(1)	Freq	2.487 401 GHz	-46.85 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 1)

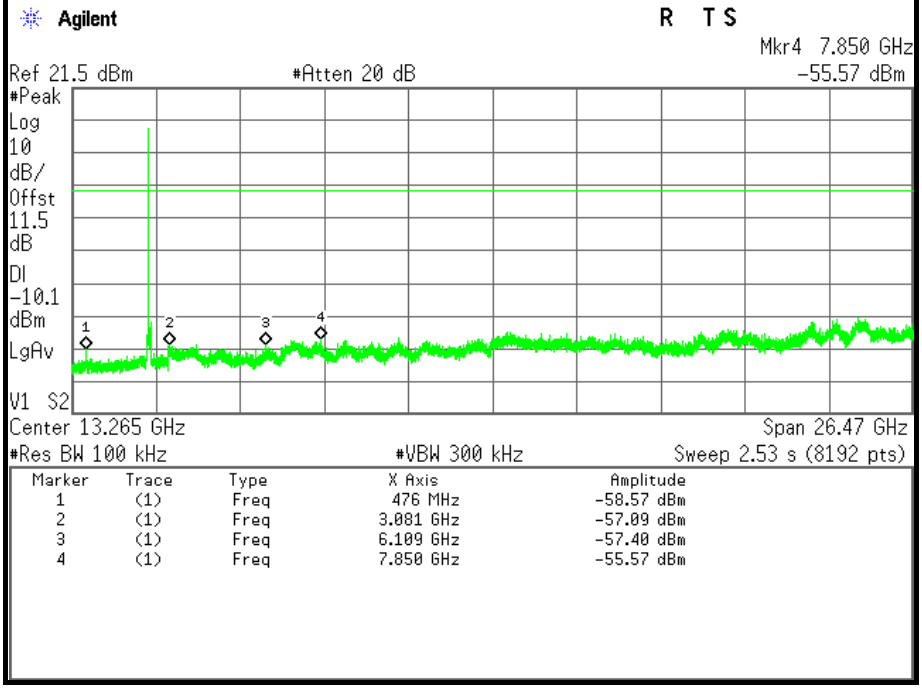


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.180 GHz	-60.87 dBm
2	(1)	Freq	13.774 GHz	-53.28 dBm
3	(1)	Freq	15.387 GHz	-53.63 dBm
4	(1)	Freq	17.300 GHz	-54.12 dBm

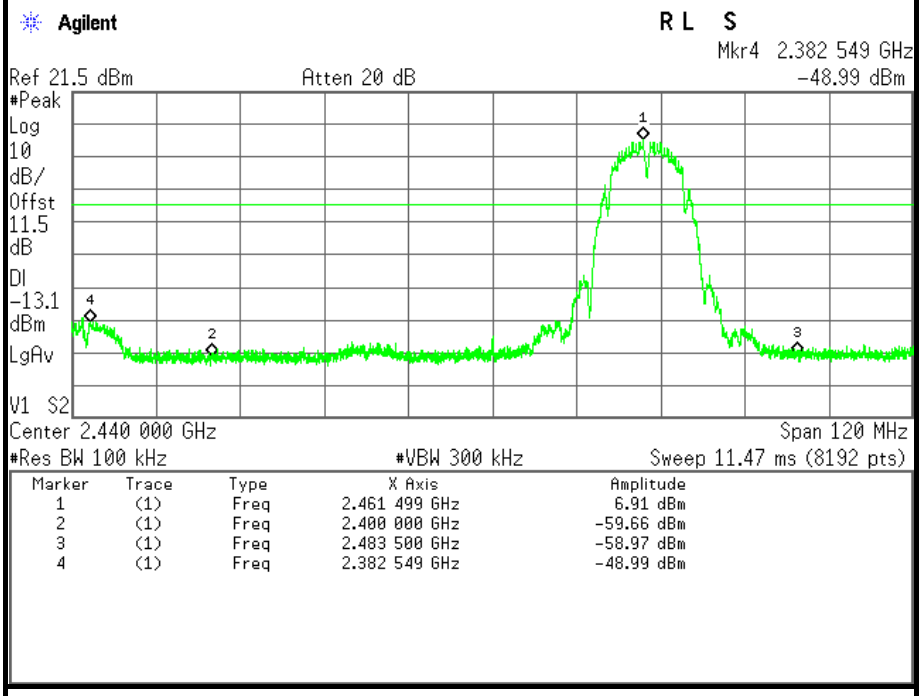
CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 1)



CH Middle (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 1)

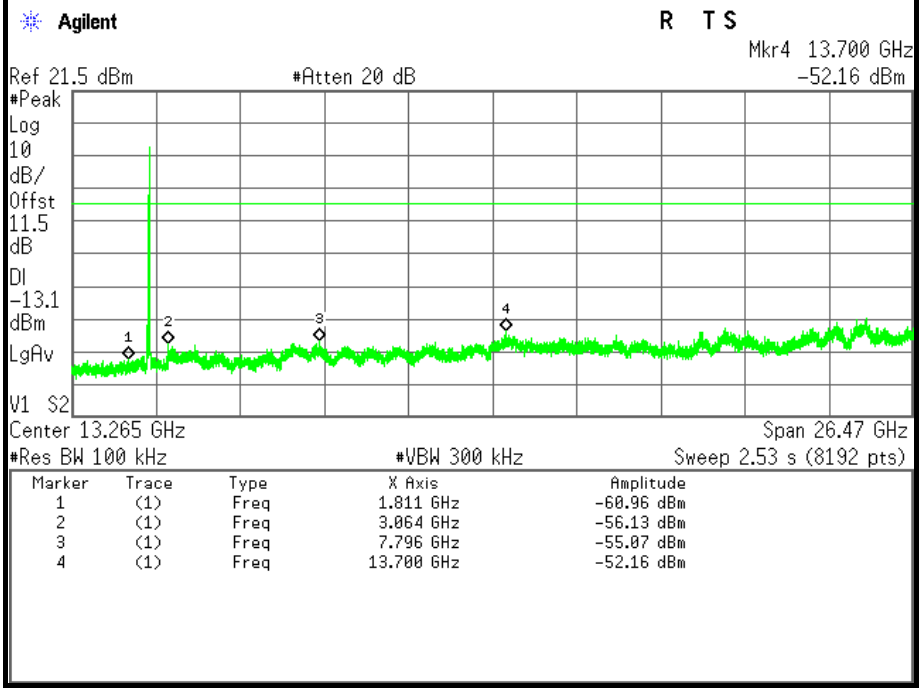


CH High (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 1)



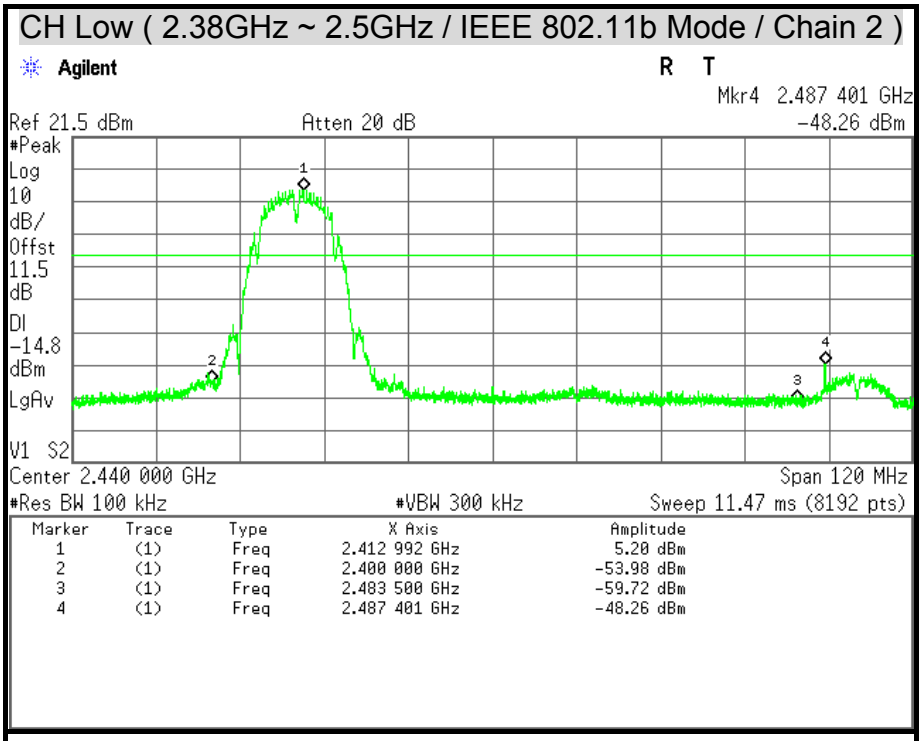
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.461 499 GHz	6.91 dBm
2	(1)	Freq	2.400 000 GHz	-59.66 dBm
3	(1)	Freq	2.483 500 GHz	-58.97 dBm
4	(1)	Freq	2.382 549 GHz	-48.99 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 1)



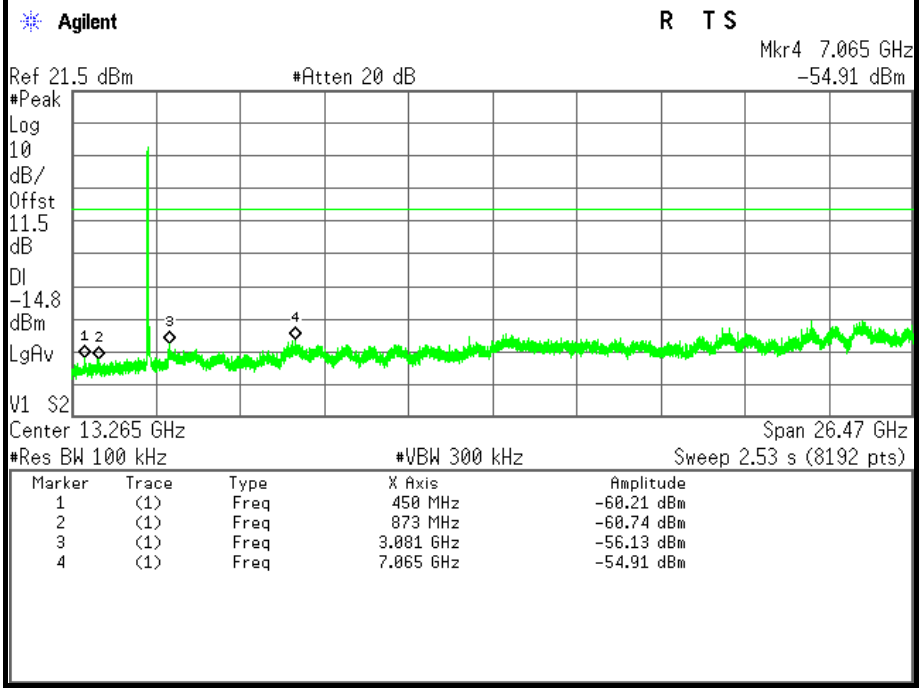
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.811 GHz	-60.96 dBm
2	(1)	Freq	3.064 GHz	-56.13 dBm
3	(1)	Freq	7.796 GHz	-55.07 dBm
4	(1)	Freq	13.700 GHz	-52.16 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 2)



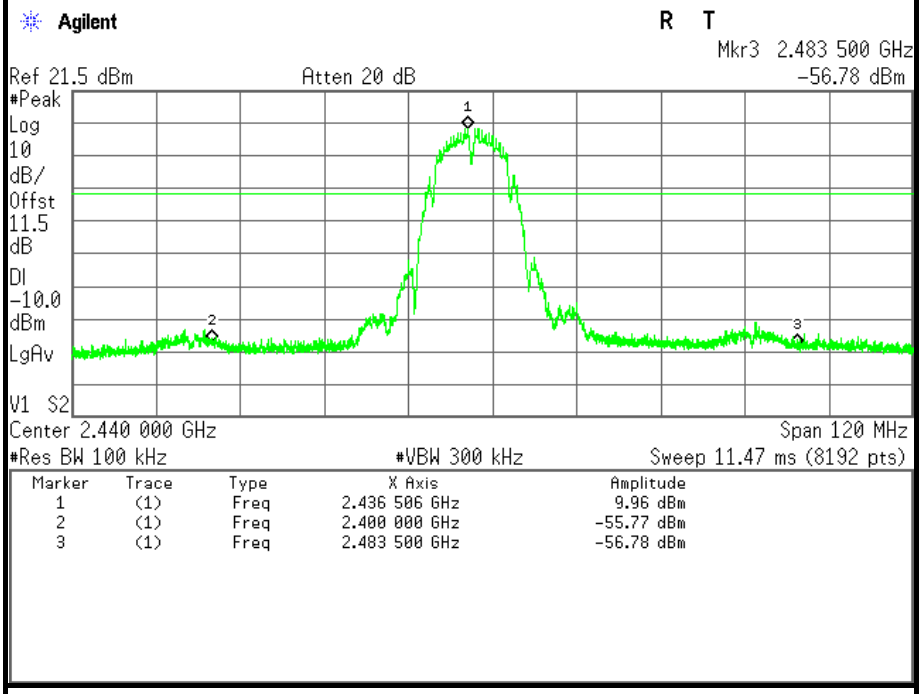
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.412 992 GHz	5.20 dBm
2	(1)	Freq	2.400 000 GHz	-53.98 dBm
3	(1)	Freq	2.483 500 GHz	-59.72 dBm
4	(1)	Freq	2.487 401 GHz	-48.26 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 2)



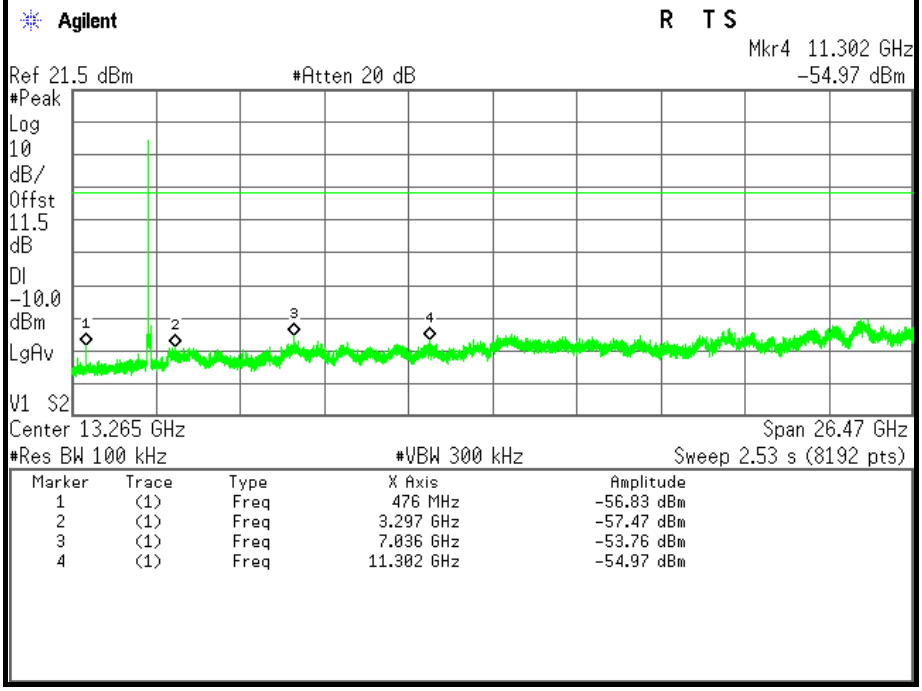
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	450 MHz	-60.21 dBm
2	(1)	Freq	873 MHz	-60.74 dBm
3	(1)	Freq	3.081 GHz	-56.13 dBm
4	(1)	Freq	7.065 GHz	-54.91 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 2)



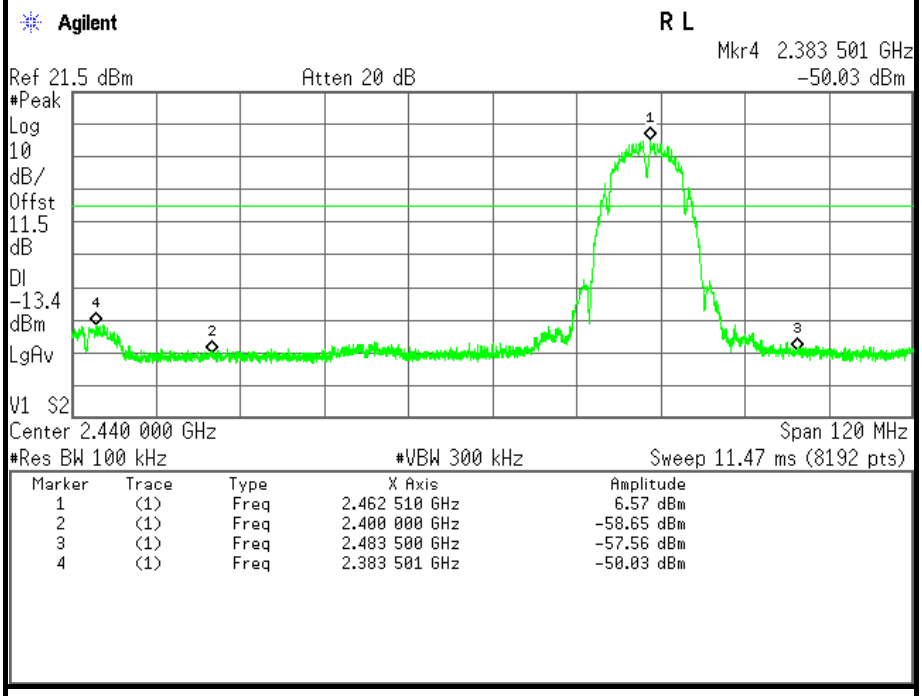
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.436 506 GHz	9.96 dBm
2	(1)	Freq	2.400 000 GHz	-55.77 dBm
3	(1)	Freq	2.483 500 GHz	-56.78 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 2)



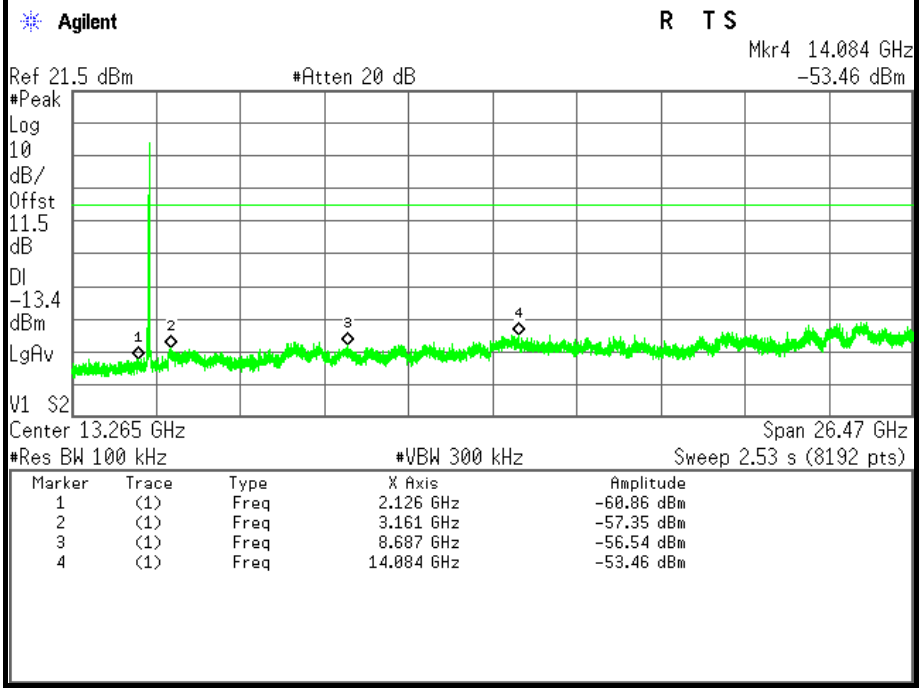
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	476 MHz	-56.83 dBm
2	(1)	Freq	3.297 GHz	-57.47 dBm
3	(1)	Freq	7.036 GHz	-53.76 dBm
4	(1)	Freq	11.302 GHz	-54.97 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11b Mode / Chain 2)



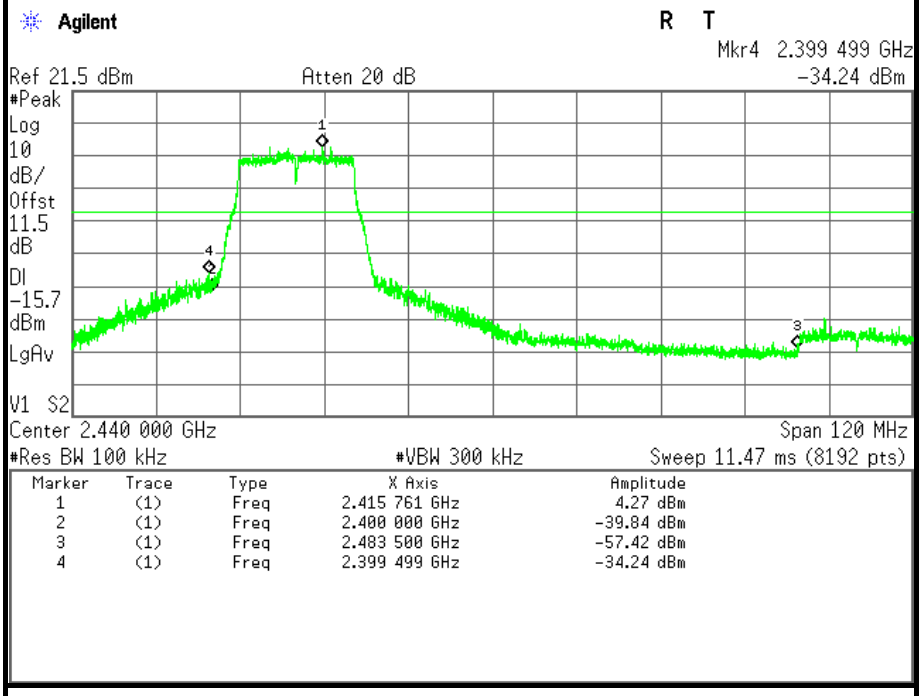
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.462 510 GHz	6.57 dBm
2	(1)	Freq	2.400 000 GHz	-58.65 dBm
3	(1)	Freq	2.483 500 GHz	-57.56 dBm
4	(1)	Freq	2.383 501 GHz	-50.03 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11b Mode / Chain 2)



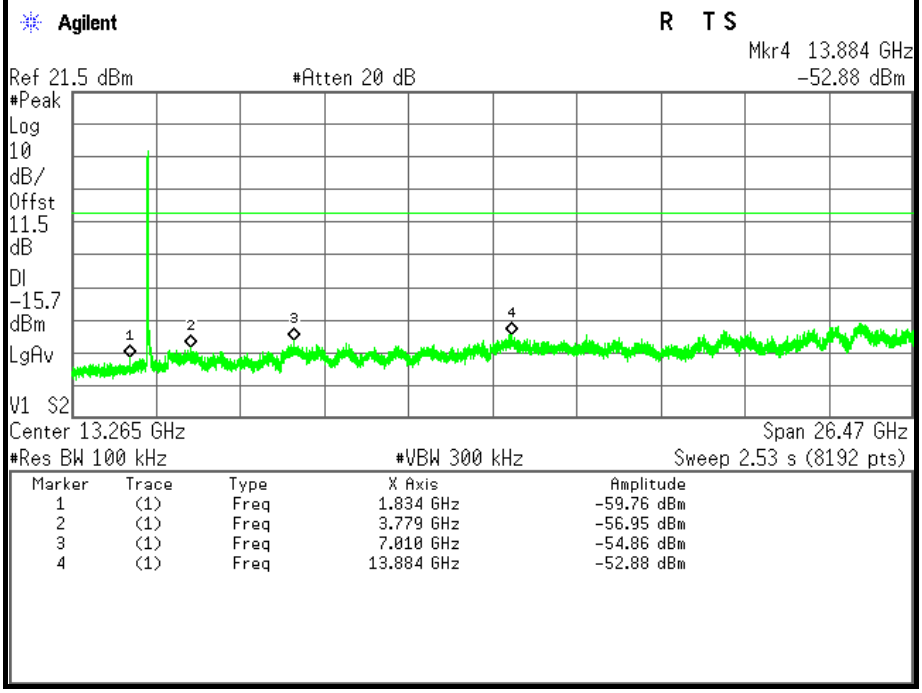
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.126 GHz	-60.86 dBm
2	(1)	Freq	3.161 GHz	-57.35 dBm
3	(1)	Freq	8.687 GHz	-56.54 dBm
4	(1)	Freq	14.084 GHz	-53.46 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 0)



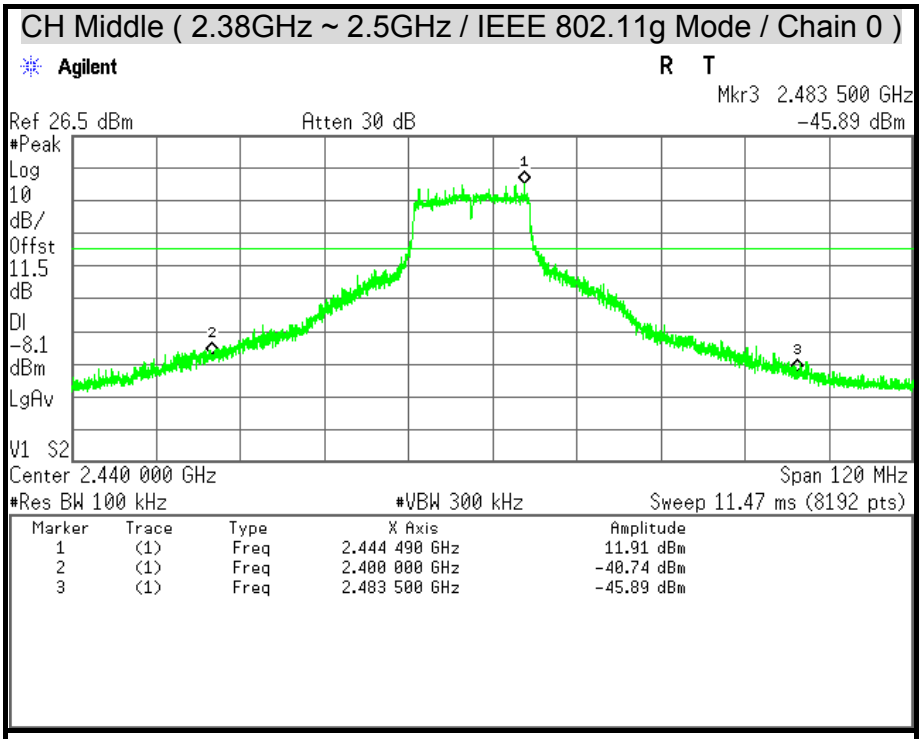
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.415 761 GHz	4.27 dBm
2	(1)	Freq	2.400 000 GHz	-39.84 dBm
3	(1)	Freq	2.483 500 GHz	-57.42 dBm
4	(1)	Freq	2.399 499 GHz	-34.24 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 0)



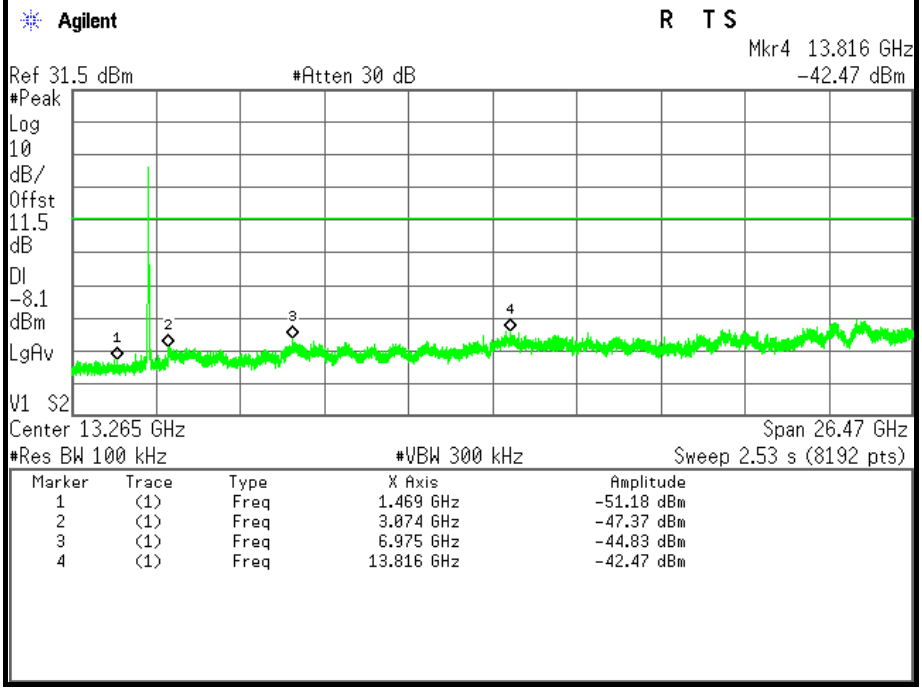
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.834 GHz	-59.76 dBm
2	(1)	Freq	3.779 GHz	-56.95 dBm
3	(1)	Freq	7.010 GHz	-54.86 dBm
4	(1)	Freq	13.884 GHz	-52.88 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 0)



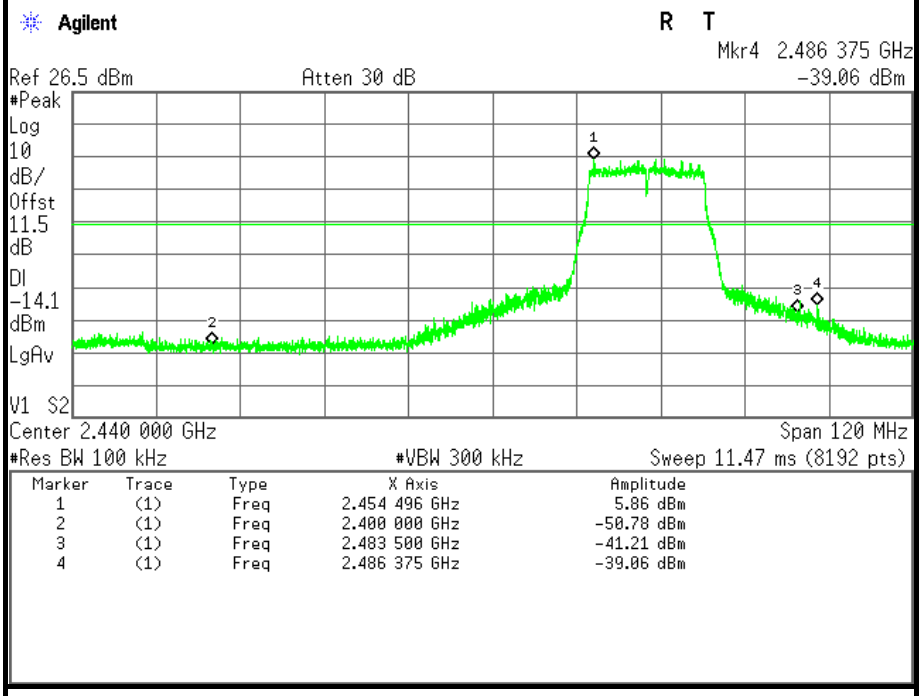
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.444 490 GHz	11.91 dBm
2	(1)	Freq	2.400 000 GHz	-40.74 dBm
3	(1)	Freq	2.483 500 GHz	-45.89 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 0)



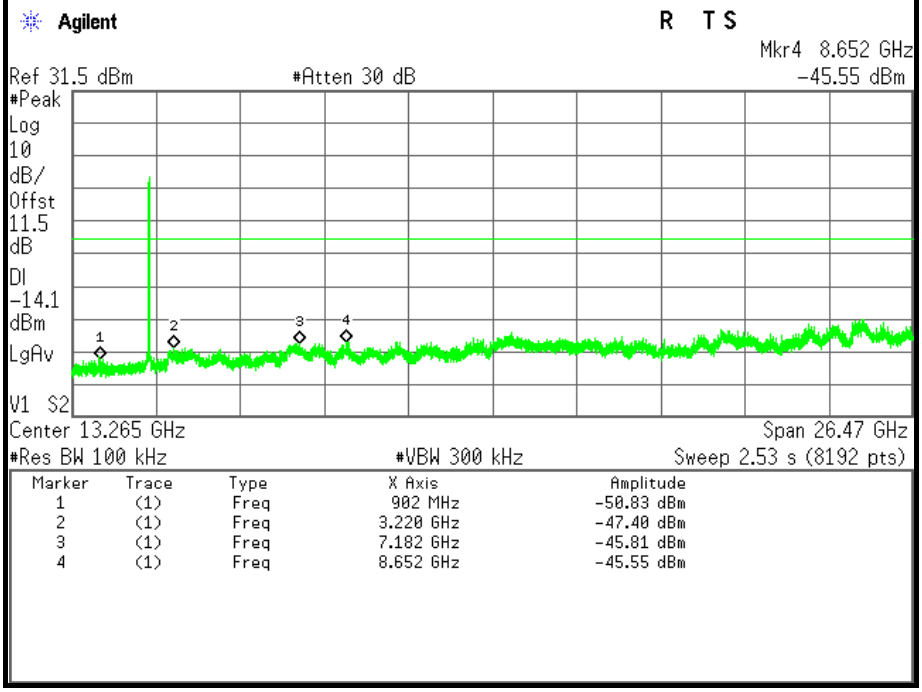
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.469 GHz	-51.18 dBm
2	(1)	Freq	3.074 GHz	-47.37 dBm
3	(1)	Freq	6.975 GHz	-44.83 dBm
4	(1)	Freq	13.816 GHz	-42.47 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 0)



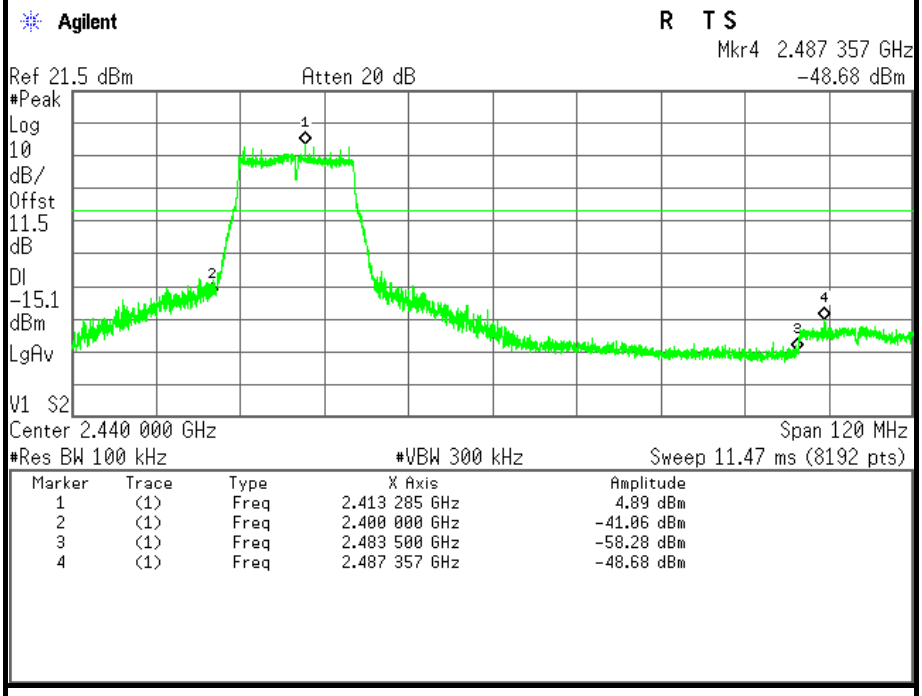
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.454 496 GHz	5.86 dBm
2	(1)	Freq	2.400 000 GHz	-50.78 dBm
3	(1)	Freq	2.483 500 GHz	-41.21 dBm
4	(1)	Freq	2.486 375 GHz	-39.06 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 0)



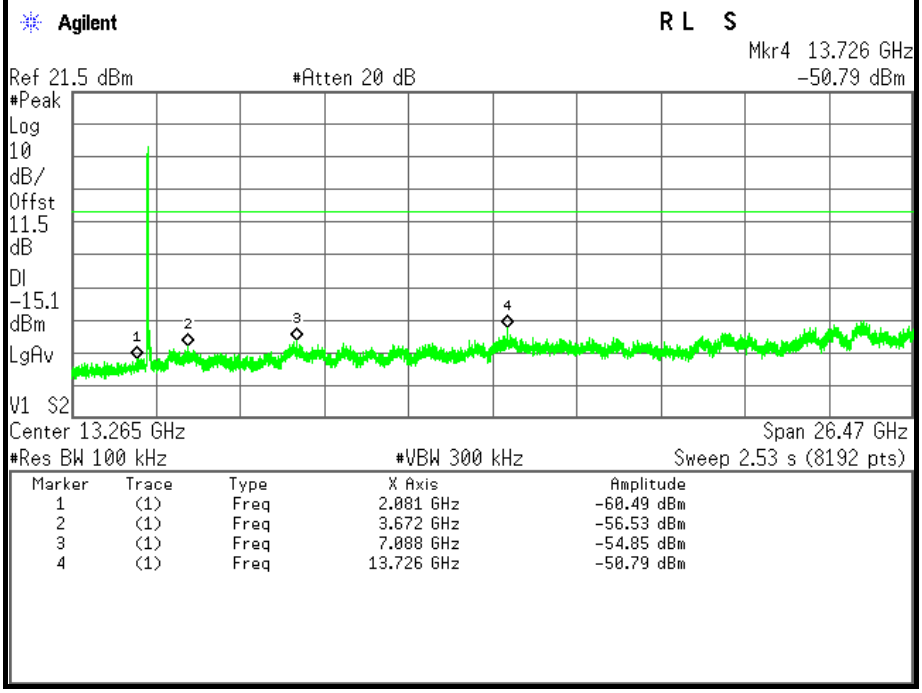
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	902 MHz	-50.83 dBm
2	(1)	Freq	3.220 GHz	-47.40 dBm
3	(1)	Freq	7.182 GHz	-45.81 dBm
4	(1)	Freq	8.652 GHz	-45.55 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 1)



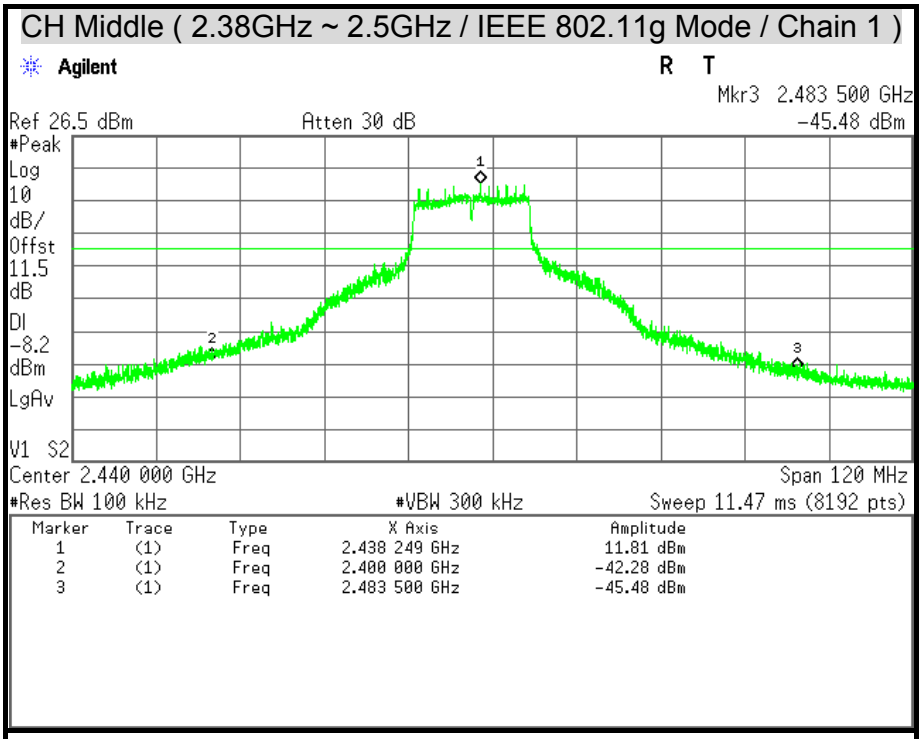
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.413 285 GHz	4.89 dBm
2	(1)	Freq	2.400 000 GHz	-41.06 dBm
3	(1)	Freq	2.483 500 GHz	-58.28 dBm
4	(1)	Freq	2.487 357 GHz	-48.68 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 1)



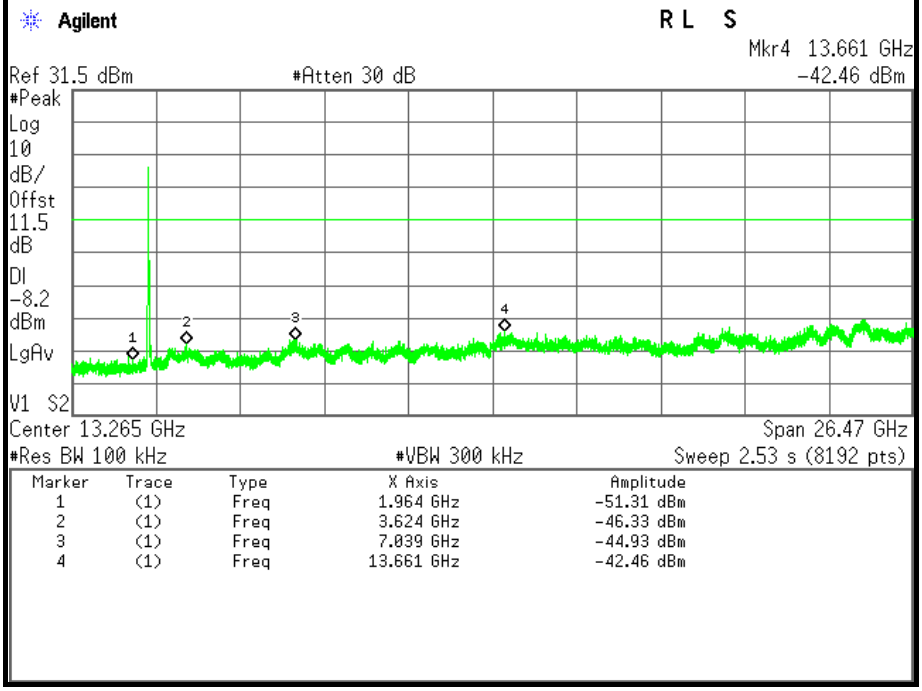
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.081 GHz	-60.49 dBm
2	(1)	Freq	3.672 GHz	-56.53 dBm
3	(1)	Freq	7.088 GHz	-54.85 dBm
4	(1)	Freq	13.726 GHz	-50.79 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 1)



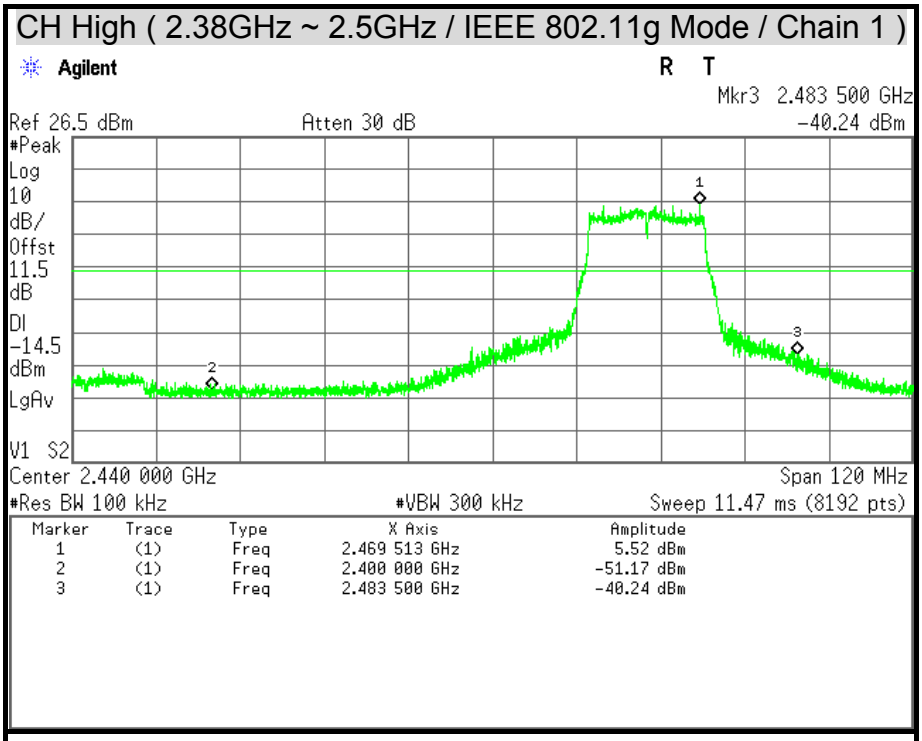
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.438 249 GHz	11.81 dBm
2	(1)	Freq	2.400 000 GHz	-42.28 dBm
3	(1)	Freq	2.483 500 GHz	-45.48 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 1)

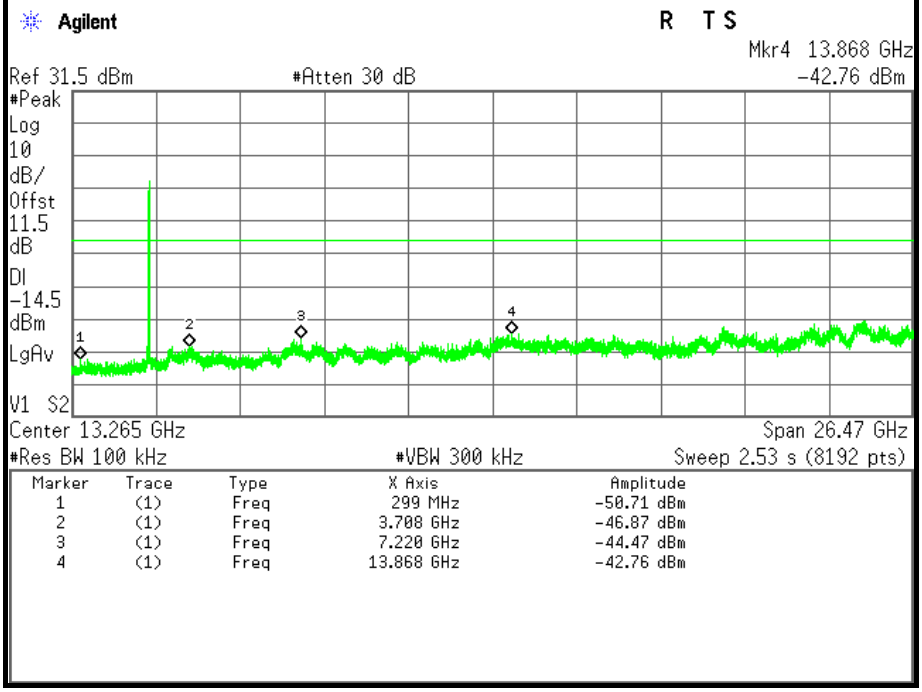


Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.964 GHz	-51.31 dBm
2	(1)	Freq	3.624 GHz	-46.33 dBm
3	(1)	Freq	7.039 GHz	-44.93 dBm
4	(1)	Freq	13.661 GHz	-42.46 dBm

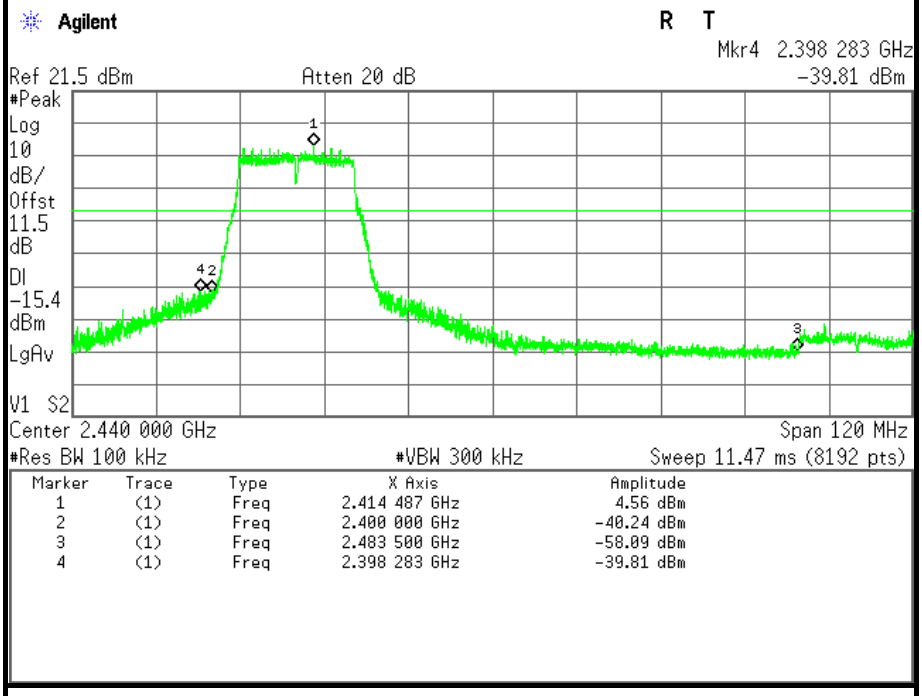
CH High (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 1)



CH High (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 1)

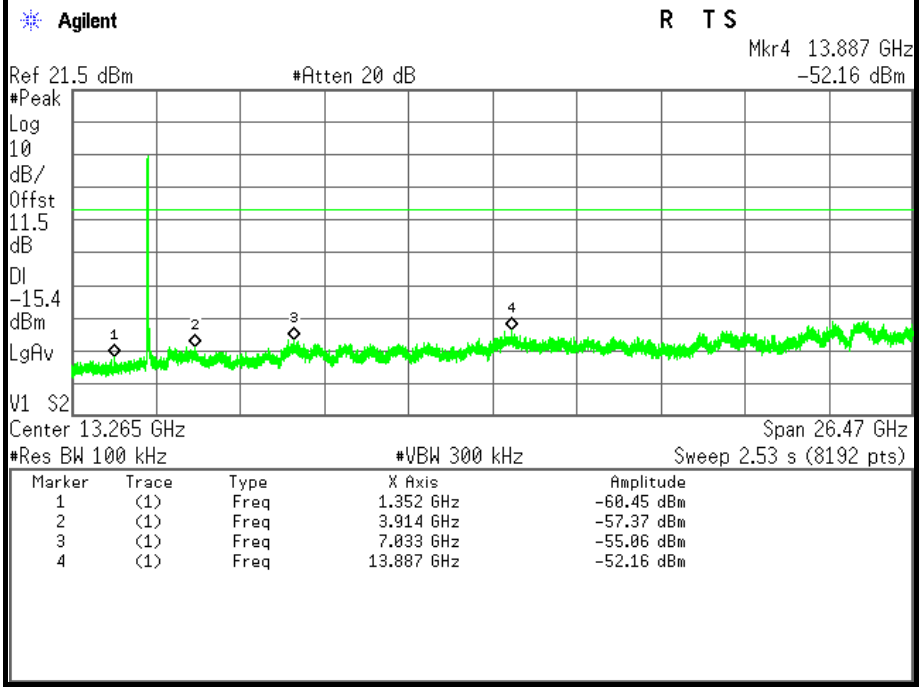


CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 2)



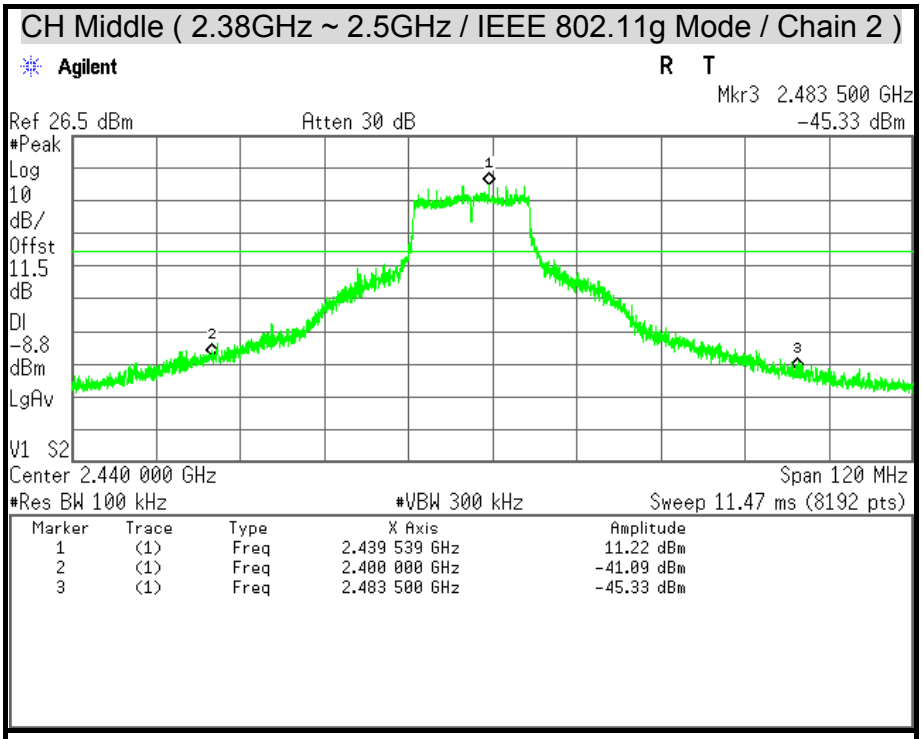
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.414 487 GHz	4.56 dBm
2	(1)	Freq	2.400 000 GHz	-40.24 dBm
3	(1)	Freq	2.483 500 GHz	-58.09 dBm
4	(1)	Freq	2.398 283 GHz	-39.81 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 2)



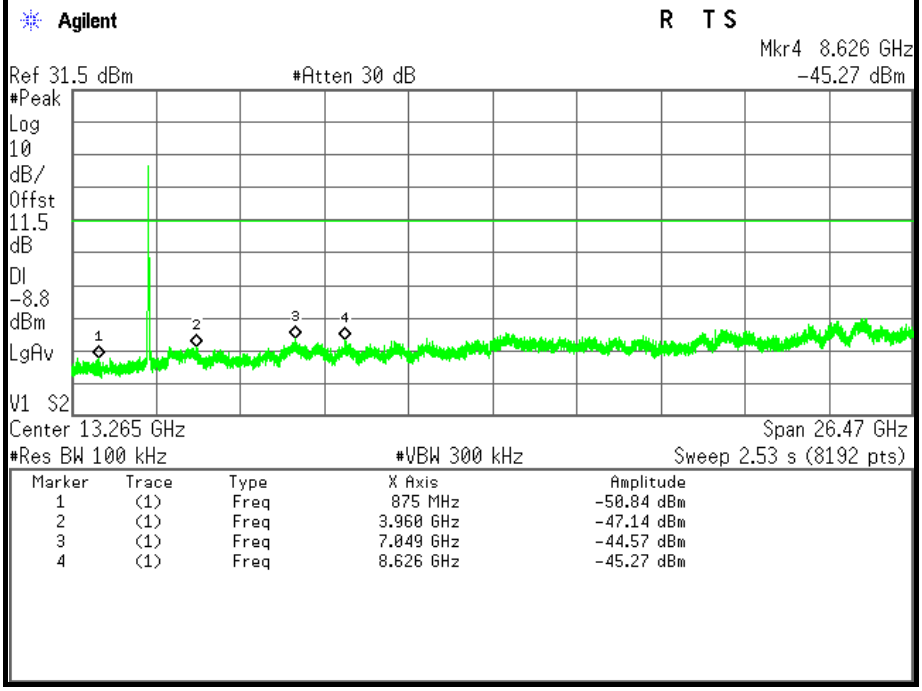
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.352 GHz	-60.45 dBm
2	(1)	Freq	3.914 GHz	-57.37 dBm
3	(1)	Freq	7.033 GHz	-55.06 dBm
4	(1)	Freq	13.887 GHz	-52.16 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 2)



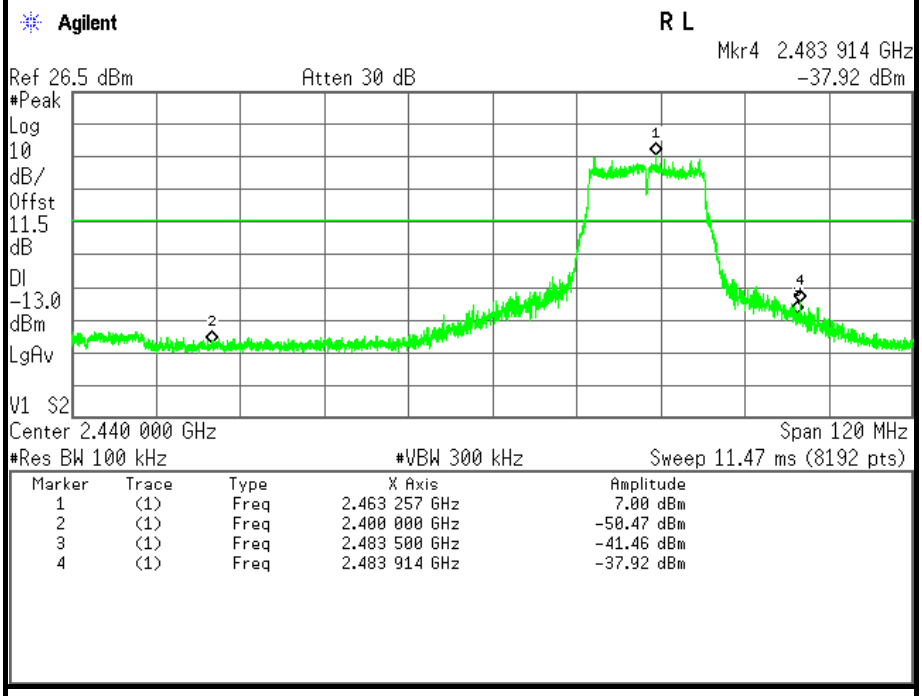
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.439 539 GHz	11.22 dBm
2	(1)	Freq	2.400 000 GHz	-41.09 dBm
3	(1)	Freq	2.483 500 GHz	-45.33 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 2)



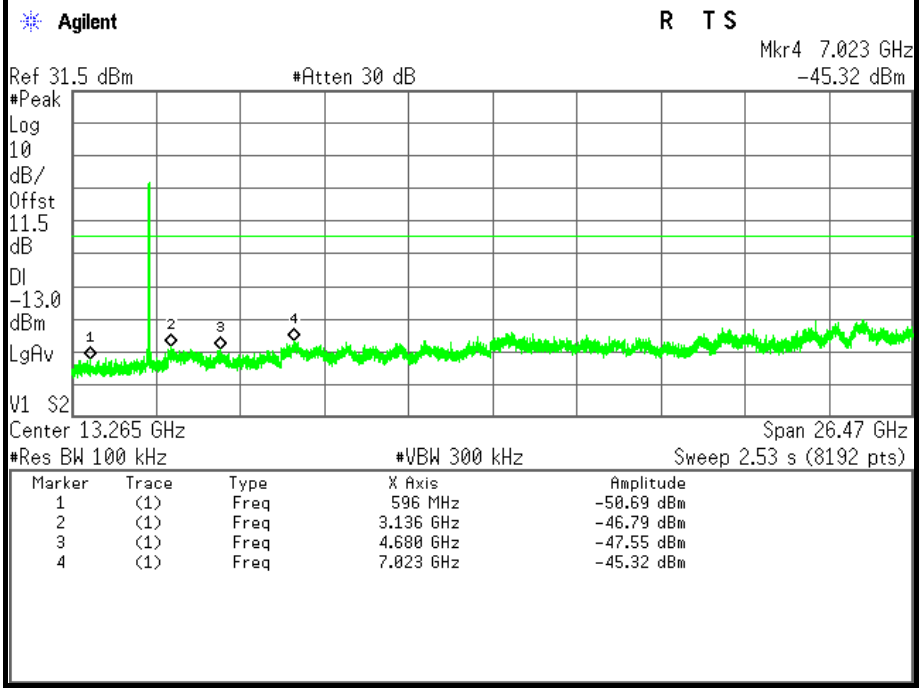
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	875 MHz	-50.84 dBm
2	(1)	Freq	3.960 GHz	-47.14 dBm
3	(1)	Freq	7.049 GHz	-44.57 dBm
4	(1)	Freq	8.626 GHz	-45.27 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11g Mode / Chain 2)



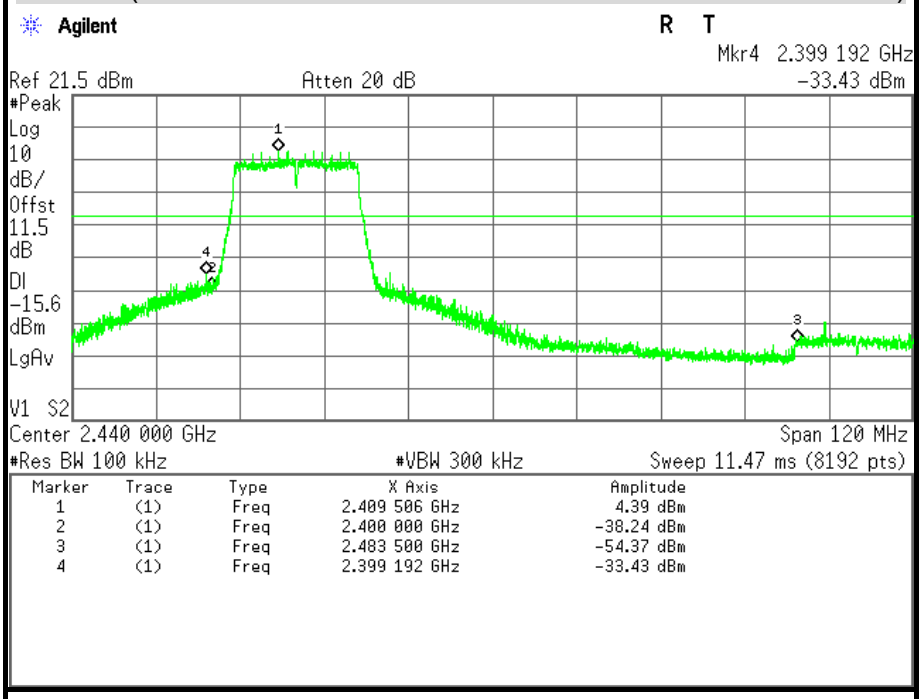
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.463 257 GHz	7.00 dBm
2	(1)	Freq	2.400 000 GHz	-50.47 dBm
3	(1)	Freq	2.483 500 GHz	-41.46 dBm
4	(1)	Freq	2.483 914 GHz	-37.92 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11g Mode / Chain 2)



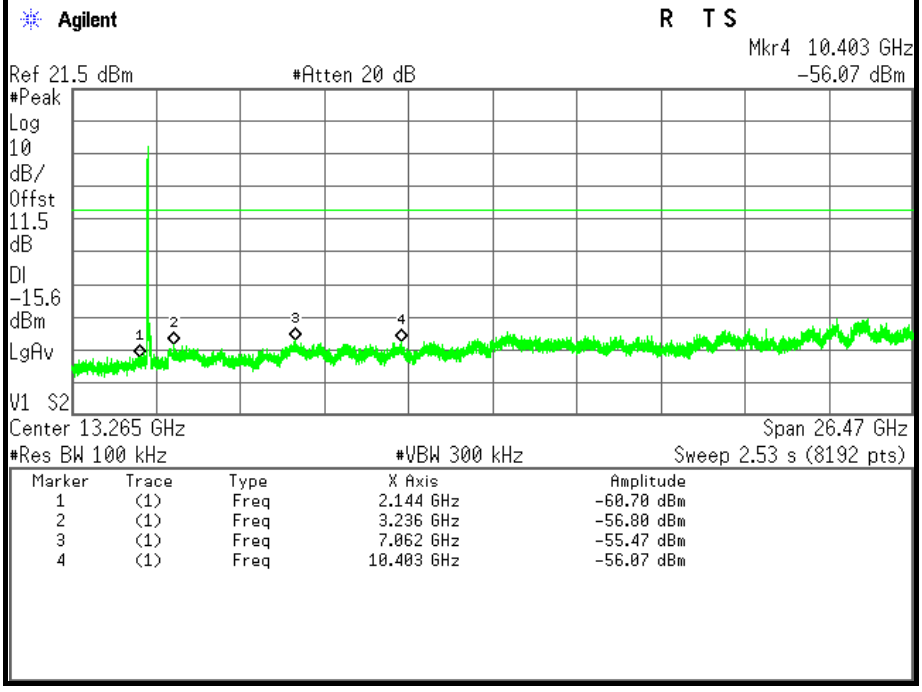
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	596 MHz	-50.69 dBm
2	(1)	Freq	3.136 GHz	-46.79 dBm
3	(1)	Freq	4.680 GHz	-47.55 dBm
4	(1)	Freq	7.023 GHz	-45.32 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 0)



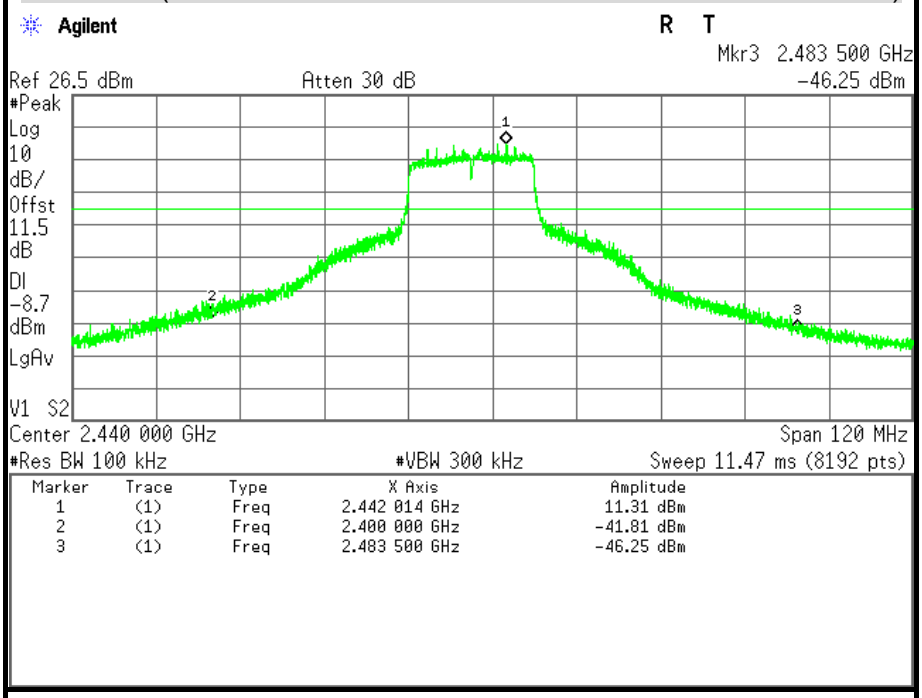
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.409 506 GHz	4.39 dBm
2	(1)	Freq	2.400 000 GHz	-38.24 dBm
3	(1)	Freq	2.483 500 GHz	-54.37 dBm
4	(1)	Freq	2.399 192 GHz	-33.43 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 0)



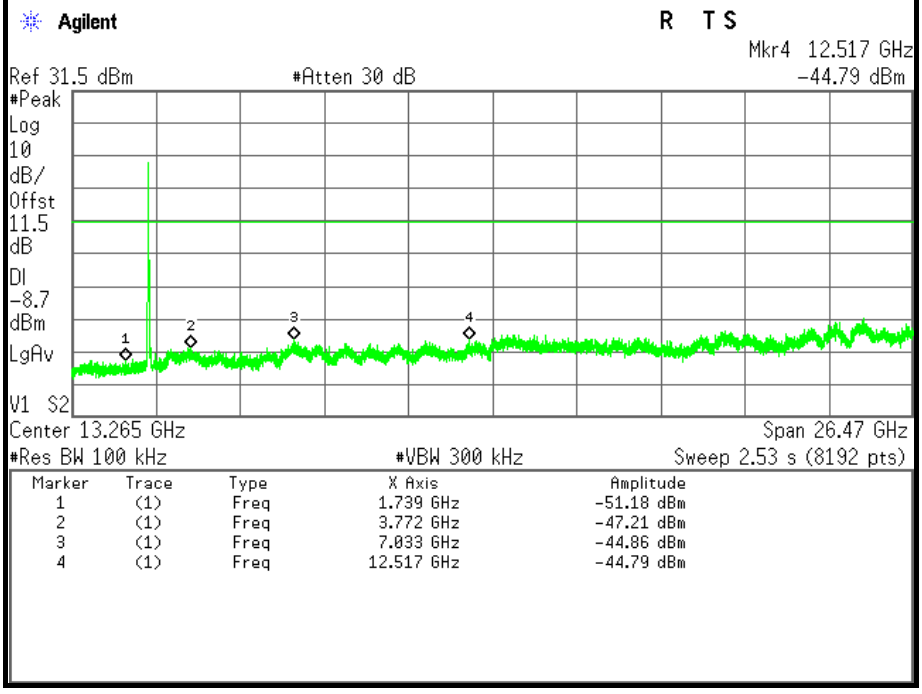
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.144 GHz	-60.70 dBm
2	(1)	Freq	3.236 GHz	-56.80 dBm
3	(1)	Freq	7.062 GHz	-55.47 dBm
4	(1)	Freq	10.403 GHz	-56.07 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 0)



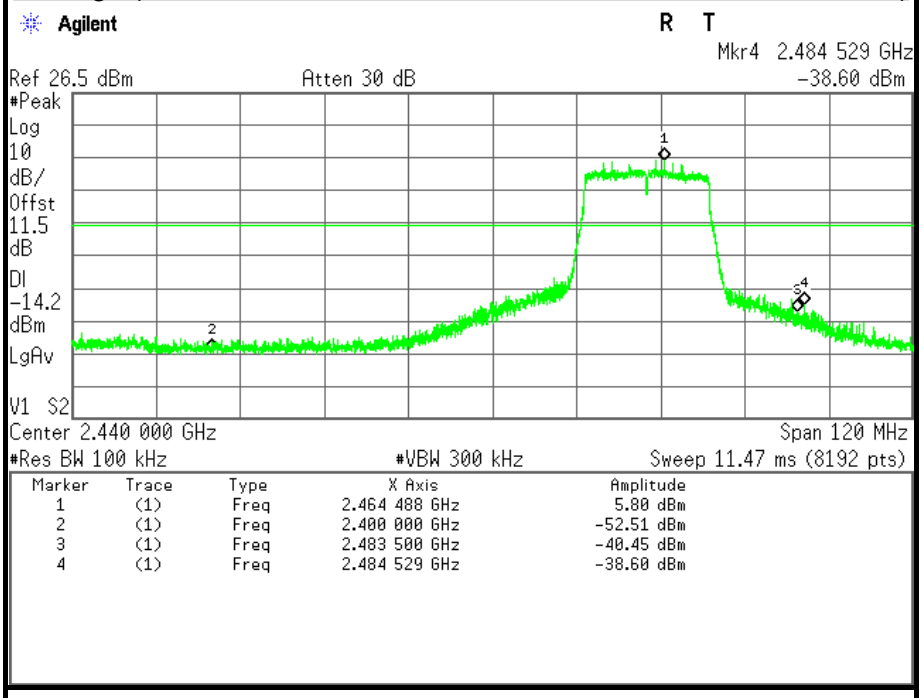
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.442 014 GHz	11.31 dBm
2	(1)	Freq	2.400 000 GHz	-41.81 dBm
3	(1)	Freq	2.483 500 GHz	-46.25 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 0)



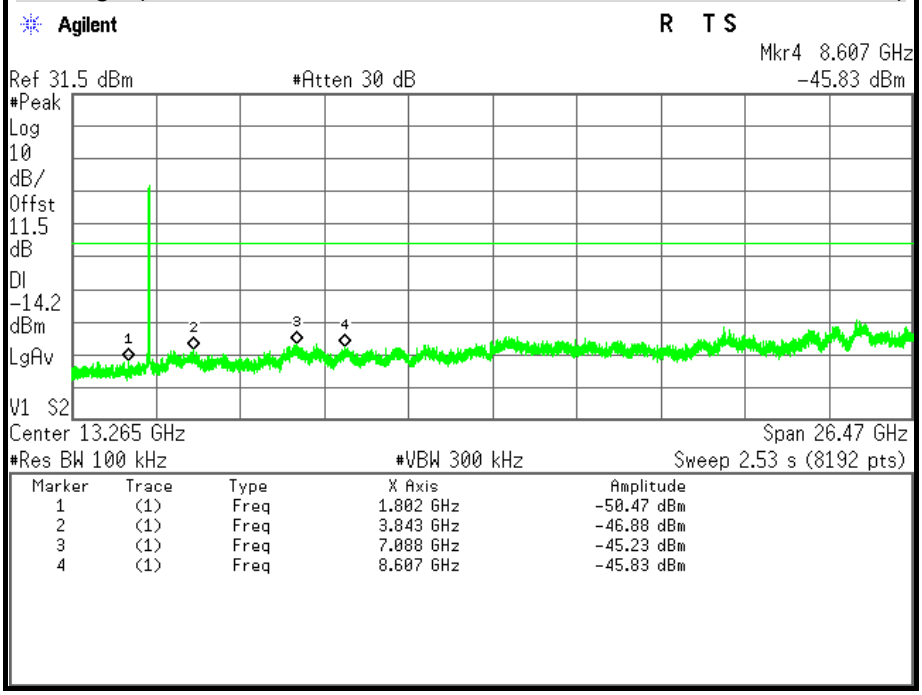
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.739 GHz	-51.18 dBm
2	(1)	Freq	3.772 GHz	-47.21 dBm
3	(1)	Freq	7.033 GHz	-44.86 dBm
4	(1)	Freq	12.517 GHz	-44.79 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 0)



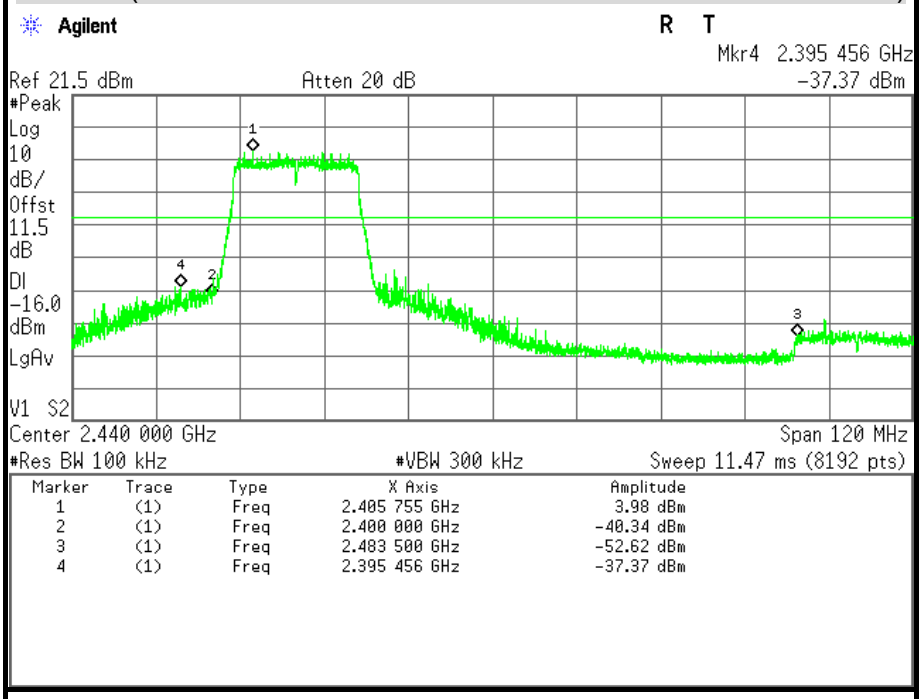
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.464 488 GHz	5.80 dBm
2	(1)	Freq	2.400 000 GHz	-52.51 dBm
3	(1)	Freq	2.483 500 GHz	-40.45 dBm
4	(1)	Freq	2.484 529 GHz	-38.60 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 0)



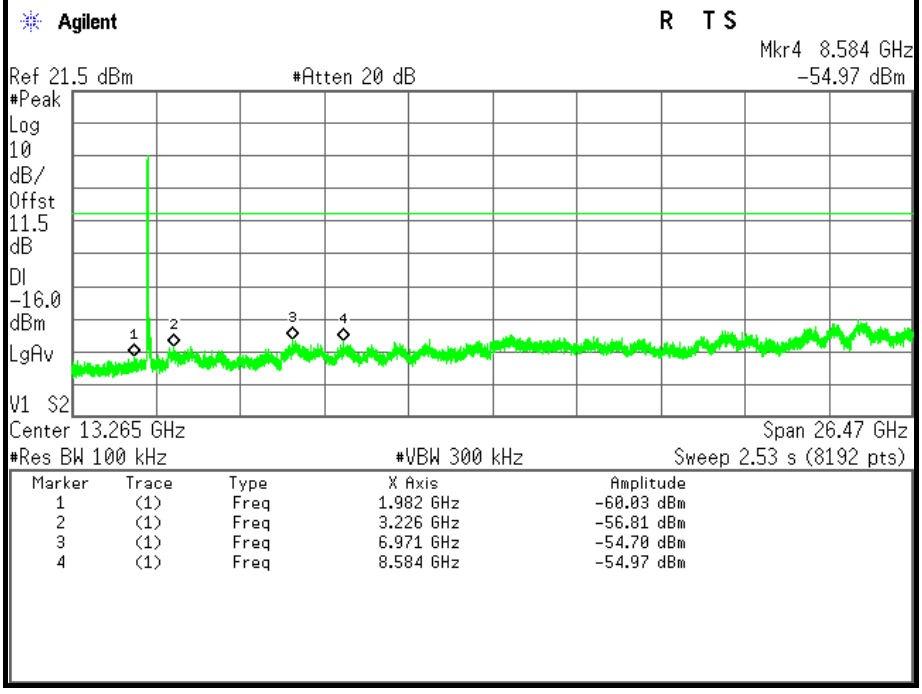
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.802 GHz	-50.47 dBm
2	(1)	Freq	3.843 GHz	-46.88 dBm
3	(1)	Freq	7.088 GHz	-45.23 dBm
4	(1)	Freq	8.607 GHz	-45.83 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 1)



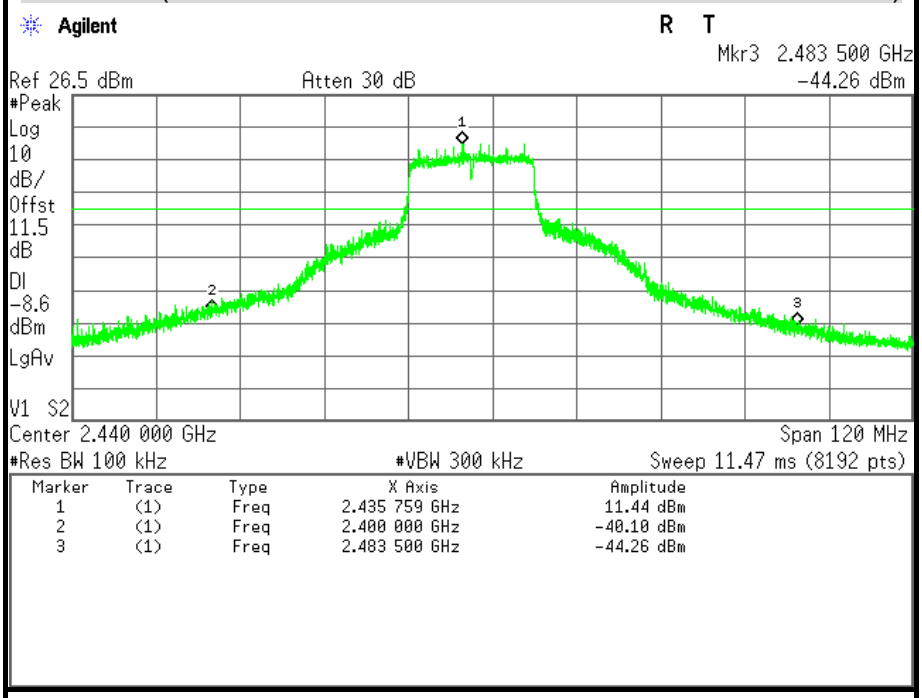
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.405 755 GHz	3.98 dBm
2	(1)	Freq	2.400 000 GHz	-40.34 dBm
3	(1)	Freq	2.483 500 GHz	-52.62 dBm
4	(1)	Freq	2.395 456 GHz	-37.37 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 1)



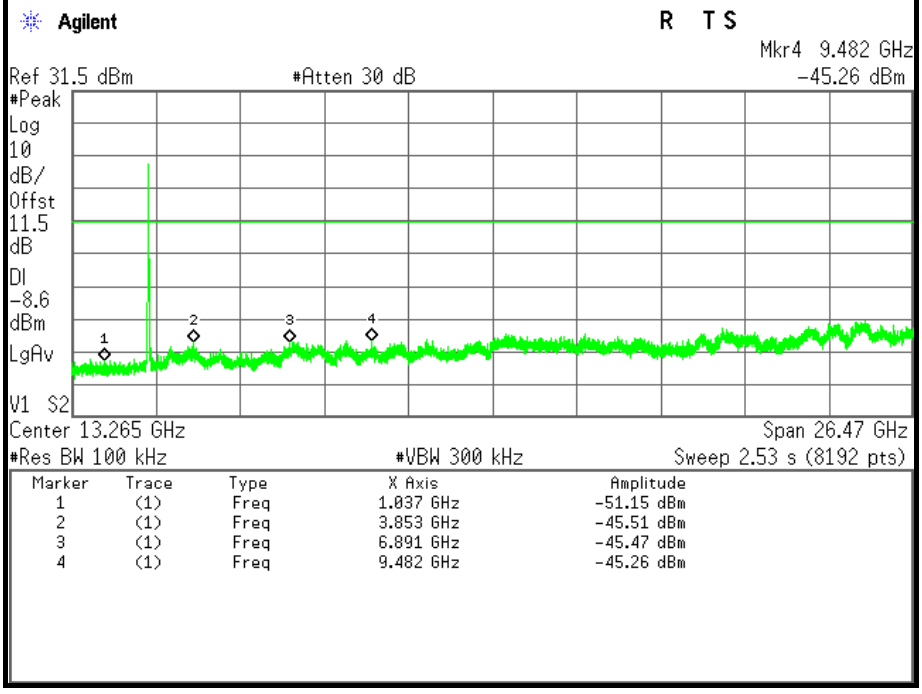
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.982 GHz	-60.03 dBm
2	(1)	Freq	3.226 GHz	-56.81 dBm
3	(1)	Freq	6.971 GHz	-54.70 dBm
4	(1)	Freq	8.584 GHz	-54.97 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 1)



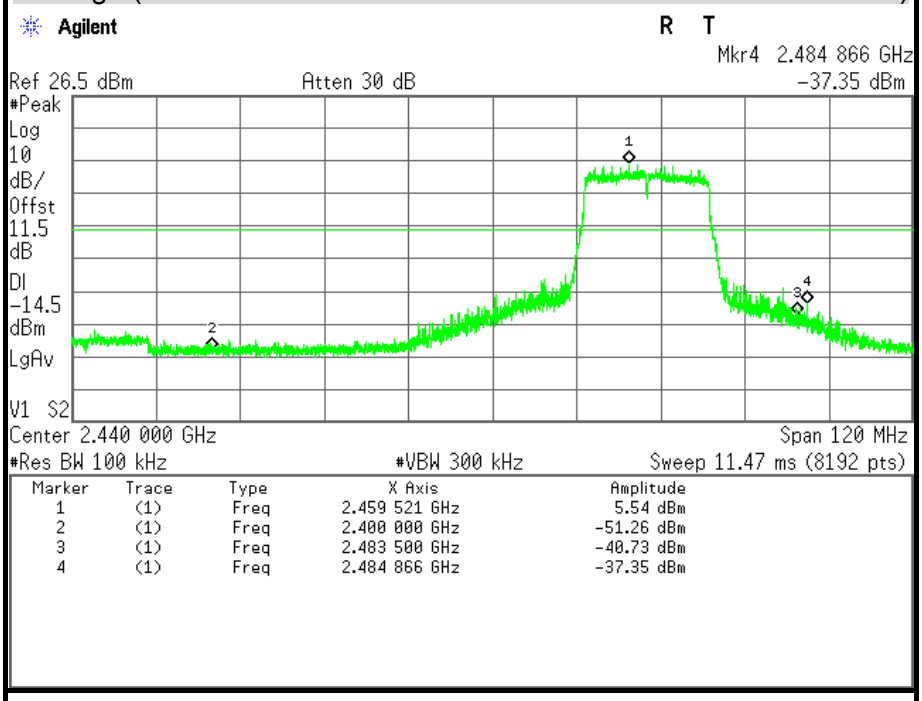
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.435 759 GHz	11.44 dBm
2	(1)	Freq	2.400 000 GHz	-40.10 dBm
3	(1)	Freq	2.483 500 GHz	-44.26 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 1)



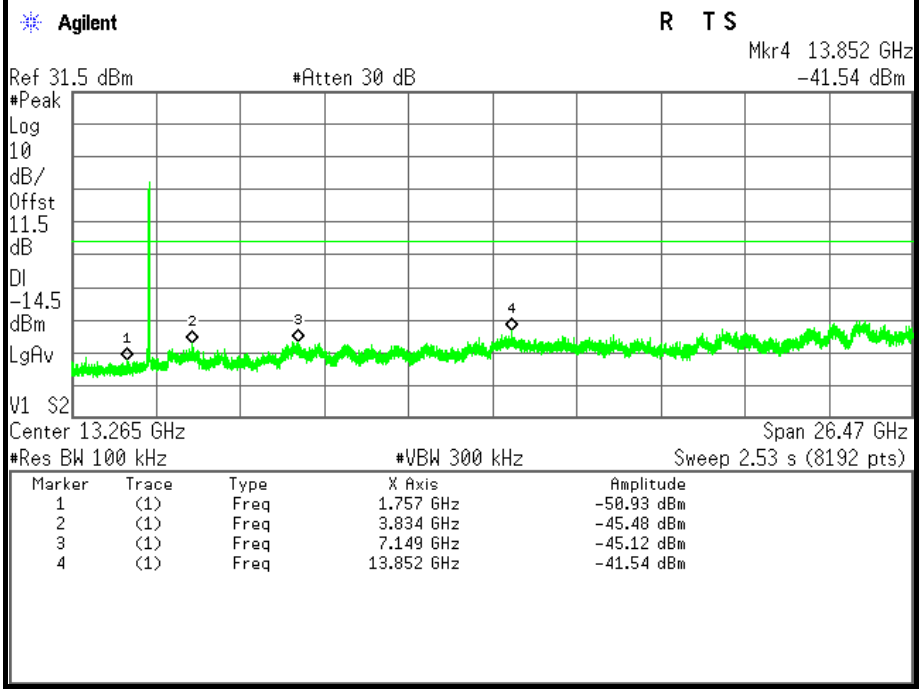
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.037 GHz	-51.15 dBm
2	(1)	Freq	3.853 GHz	-45.51 dBm
3	(1)	Freq	6.891 GHz	-45.47 dBm
4	(1)	Freq	9.482 GHz	-45.26 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 1)



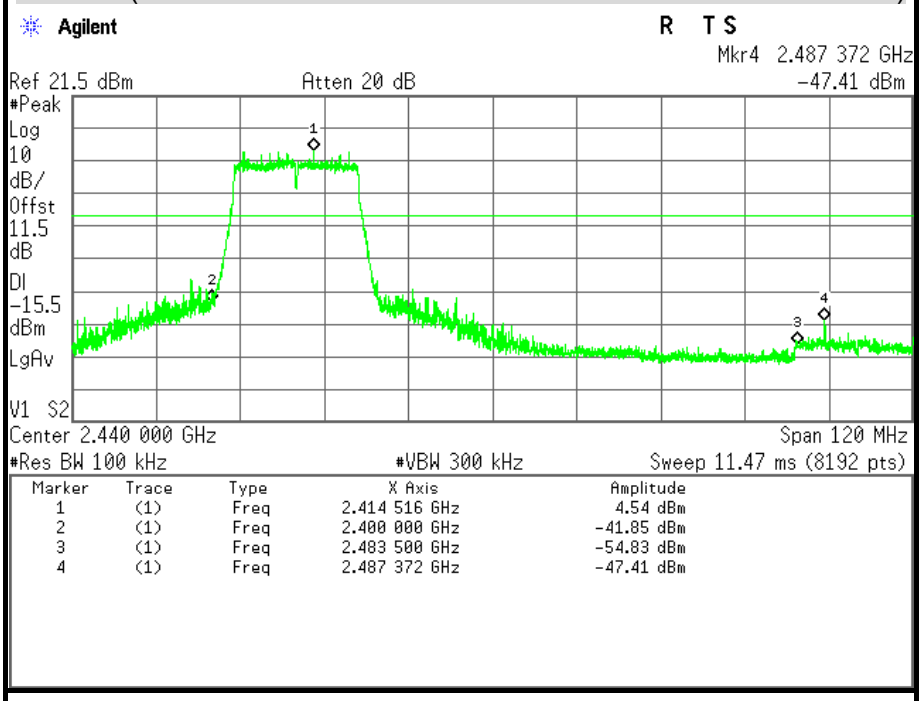
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.459 521 GHz	5.54 dBm
2	(1)	Freq	2.400 000 GHz	-51.26 dBm
3	(1)	Freq	2.483 500 GHz	-40.73 dBm
4	(1)	Freq	2.484 866 GHz	-37.35 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 1)



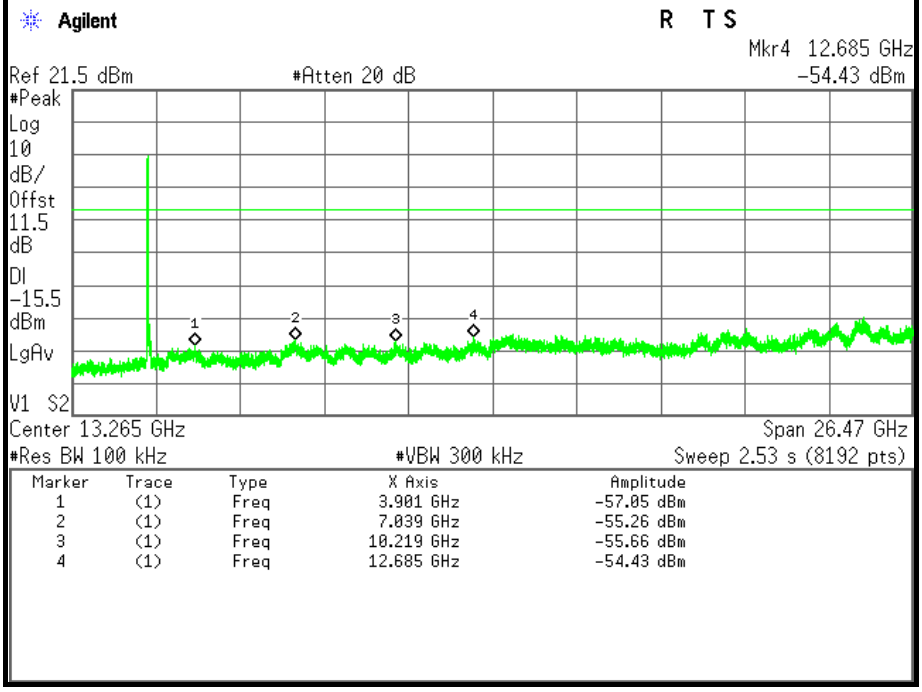
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.757 GHz	-50.93 dBm
2	(1)	Freq	3.834 GHz	-45.48 dBm
3	(1)	Freq	7.149 GHz	-45.12 dBm
4	(1)	Freq	13.852 GHz	-41.54 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 2)



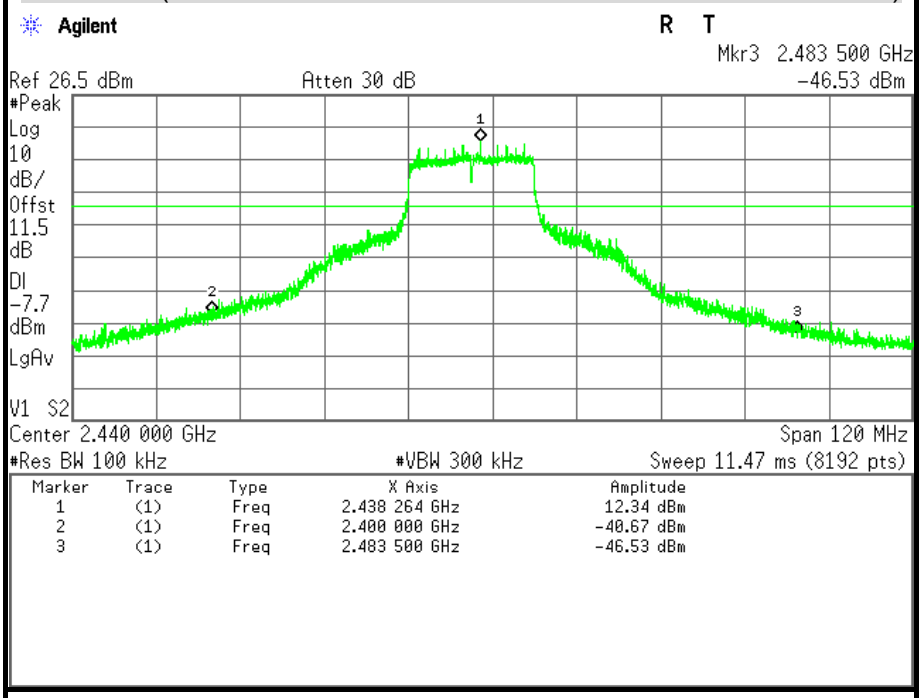
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.414 516 GHz	4.54 dBm
2	(1)	Freq	2.400 000 GHz	-41.85 dBm
3	(1)	Freq	2.483 500 GHz	-54.83 dBm
4	(1)	Freq	2.487 372 GHz	-47.41 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 2)



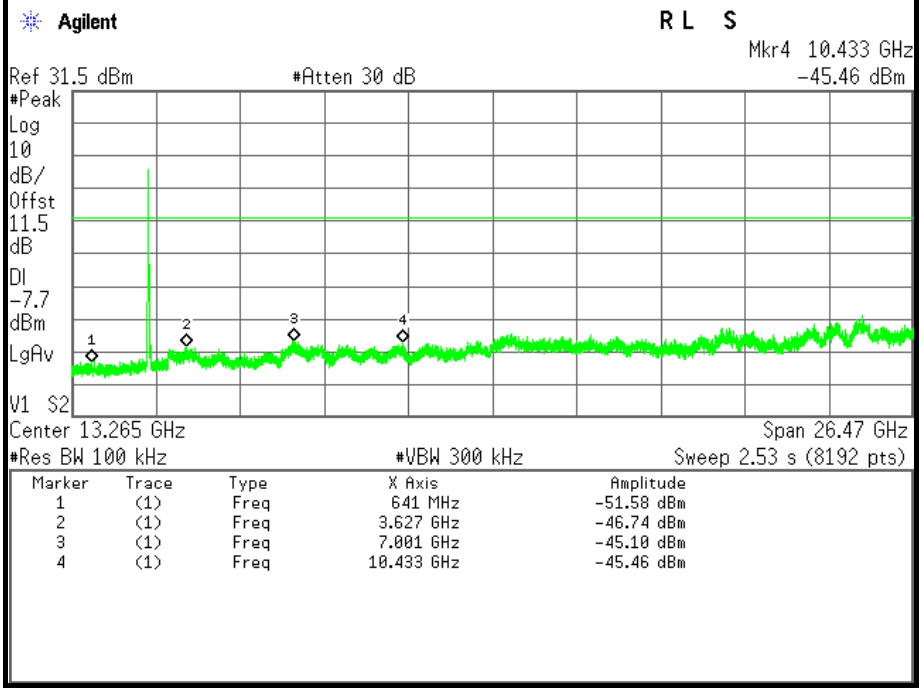
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.901 GHz	-57.05 dBm
2	(1)	Freq	7.039 GHz	-55.26 dBm
3	(1)	Freq	10.219 GHz	-55.66 dBm
4	(1)	Freq	12.685 GHz	-54.43 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 2)



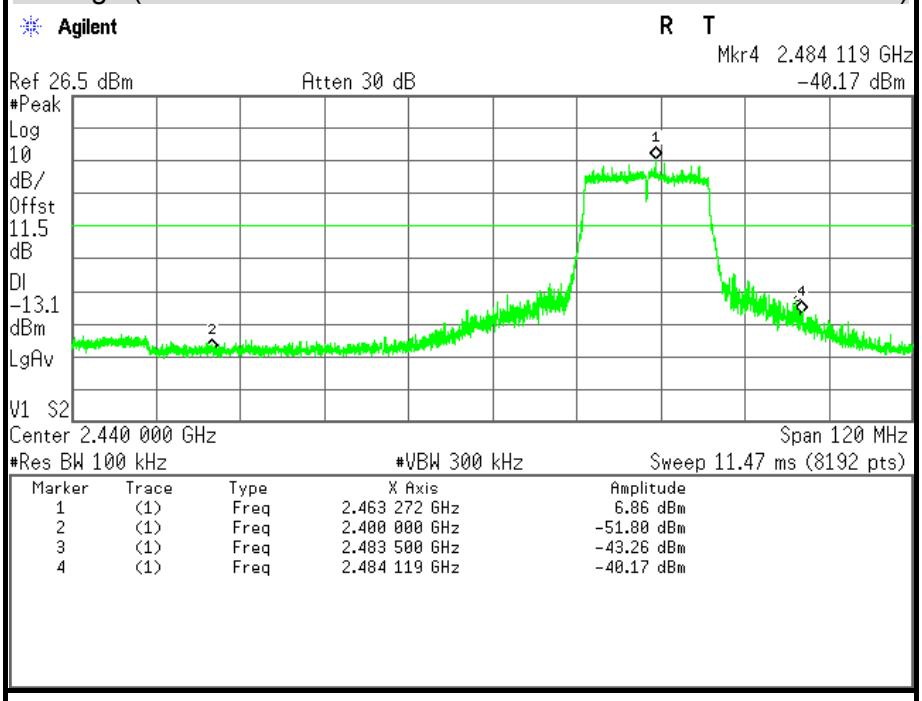
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.438 264 GHz	12.34 dBm
2	(1)	Freq	2.400 000 GHz	-40.67 dBm
3	(1)	Freq	2.483 500 GHz	-46.53 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 2)



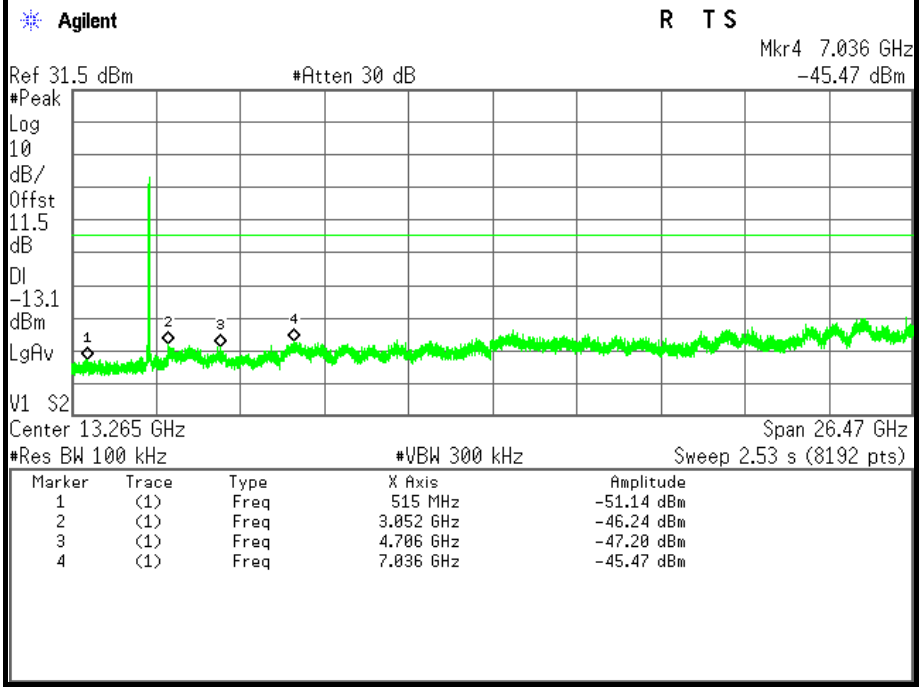
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	641 MHz	-51.58 dBm
2	(1)	Freq	3.627 GHz	-46.74 dBm
3	(1)	Freq	7.001 GHz	-45.10 dBm
4	(1)	Freq	10.433 GHz	-45.46 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11n HT20 Mode / Chain 2)



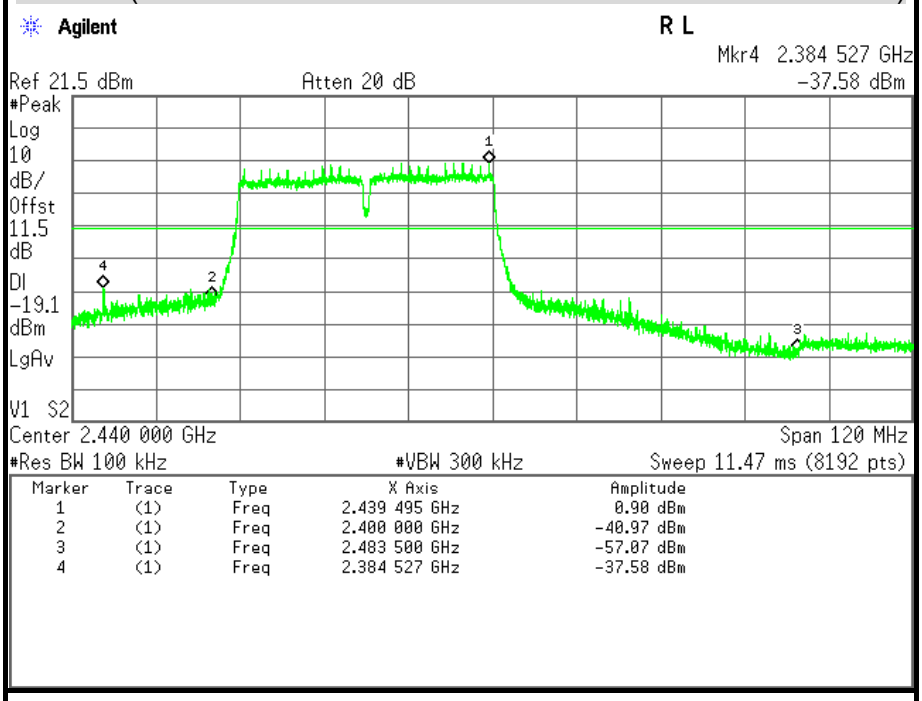
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.463 272 GHz	6.86 dBm
2	(1)	Freq	2.400 000 GHz	-51.80 dBm
3	(1)	Freq	2.483 500 GHz	-43.26 dBm
4	(1)	Freq	2.484 119 GHz	-40.17 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11n HT20 Mode / Chain 2)



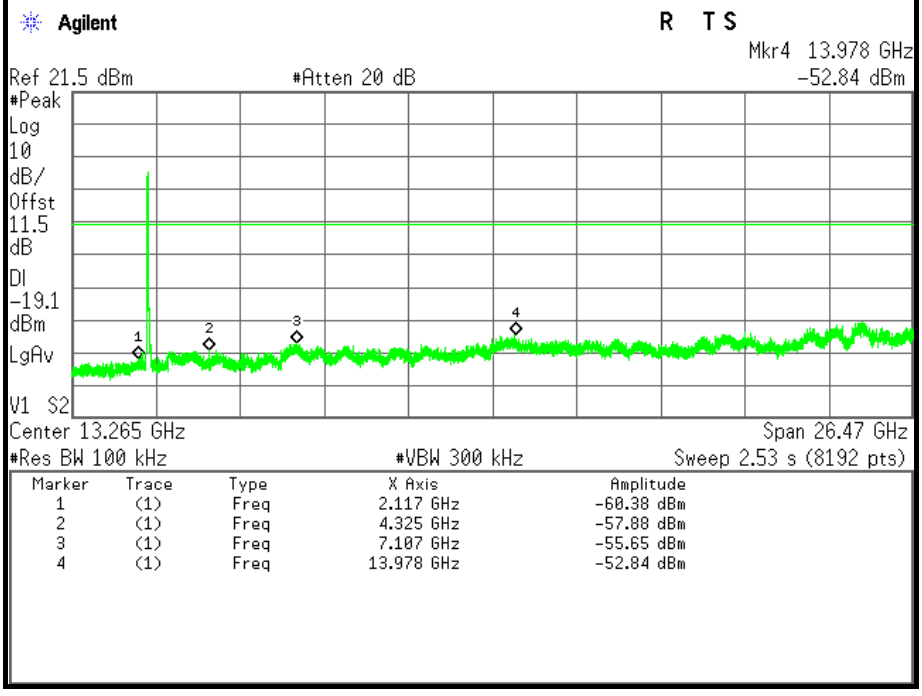
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	515 MHz	-51.14 dBm
2	(1)	Freq	3.052 GHz	-46.24 dBm
3	(1)	Freq	4.706 GHz	-47.20 dBm
4	(1)	Freq	7.036 GHz	-45.47 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 0)



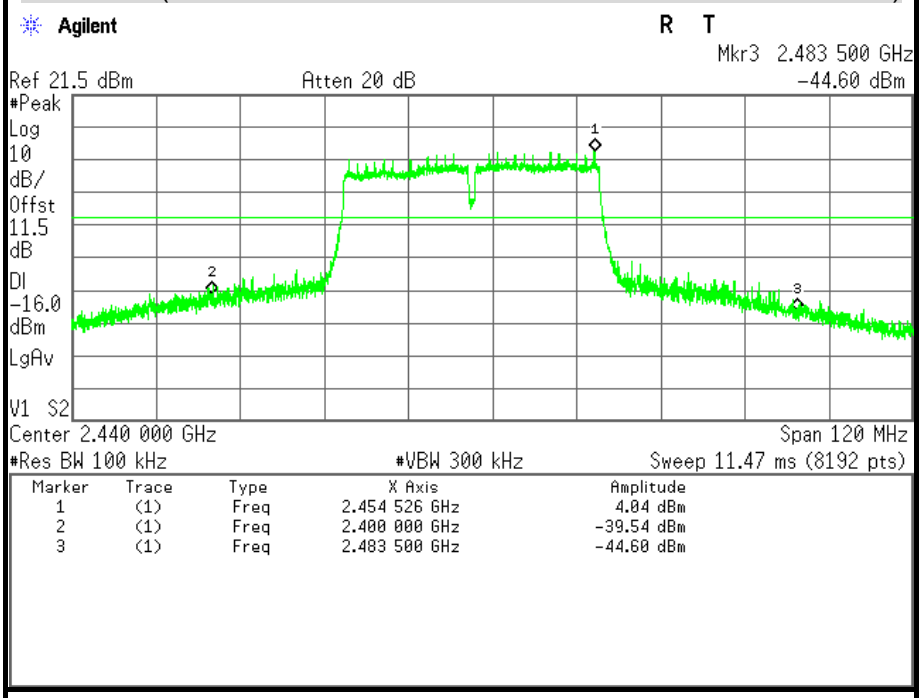
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.439 495 GHz	0.90 dBm
2	(1)	Freq	2.400 000 GHz	-40.97 dBm
3	(1)	Freq	2.483 500 GHz	-57.07 dBm
4	(1)	Freq	2.384 527 GHz	-37.58 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 0)



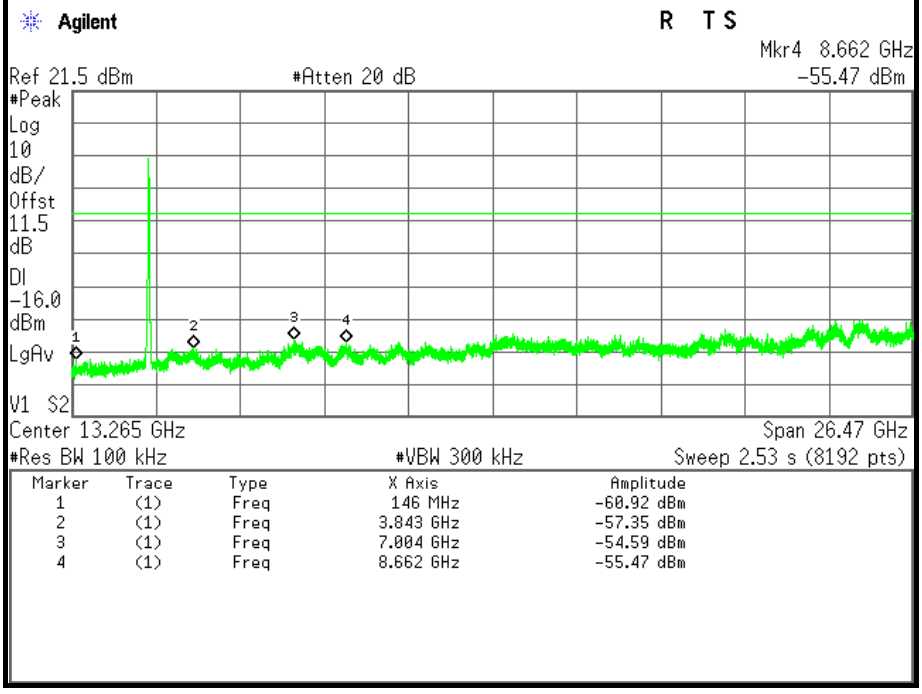
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.117 GHz	-60.38 dBm
2	(1)	Freq	4.325 GHz	-57.88 dBm
3	(1)	Freq	7.107 GHz	-55.65 dBm
4	(1)	Freq	13.978 GHz	-52.84 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 0)



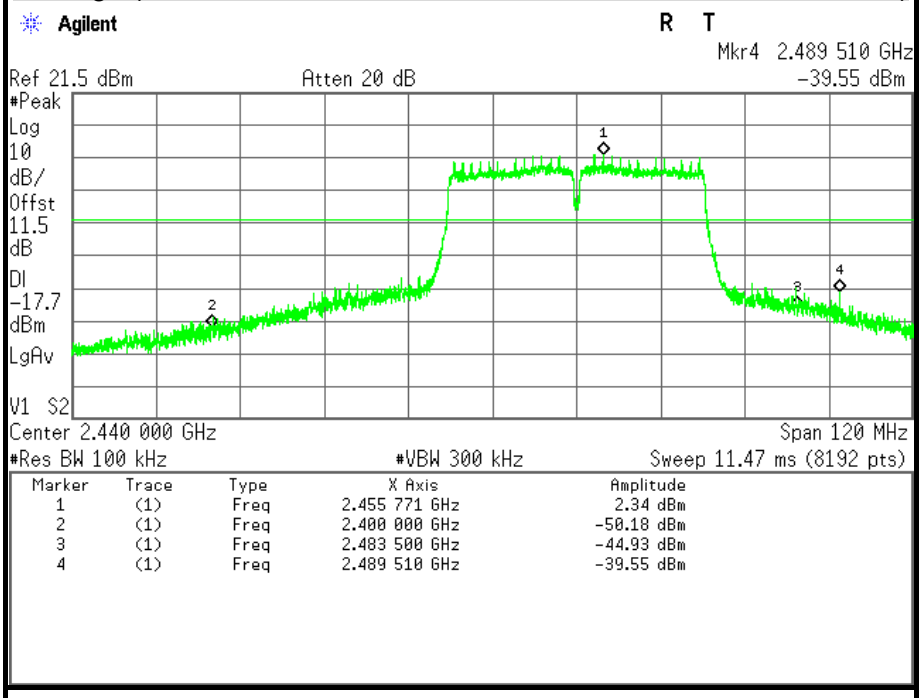
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.454 526 GHz	4.04 dBm
2	(1)	Freq	2.400 000 GHz	-39.54 dBm
3	(1)	Freq	2.483 500 GHz	-44.60 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 0)



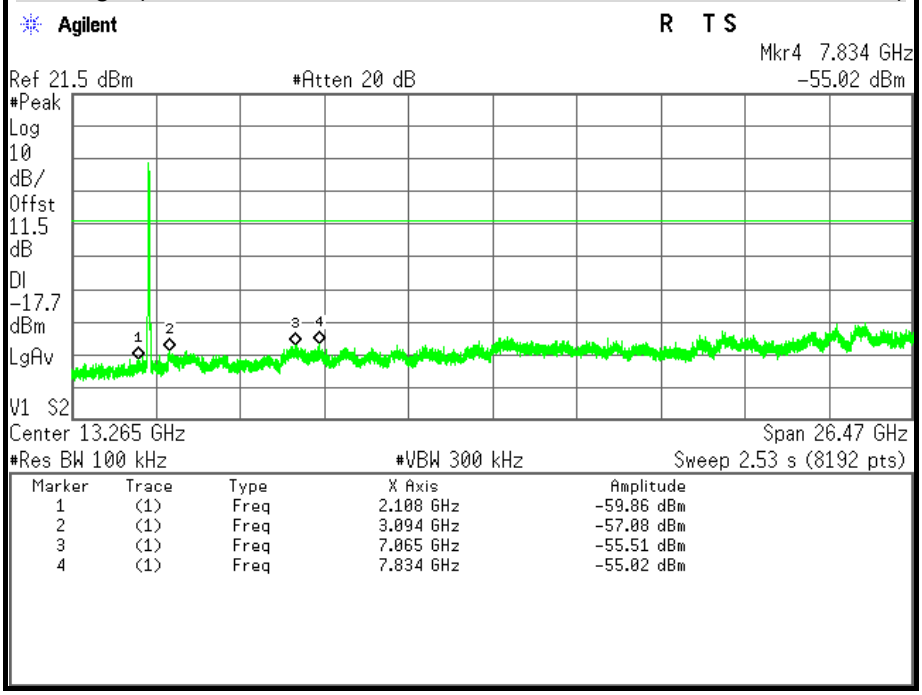
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	146 MHz	-60.92 dBm
2	(1)	Freq	3.843 GHz	-57.35 dBm
3	(1)	Freq	7.004 GHz	-54.59 dBm
4	(1)	Freq	8.662 GHz	-55.47 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 0)



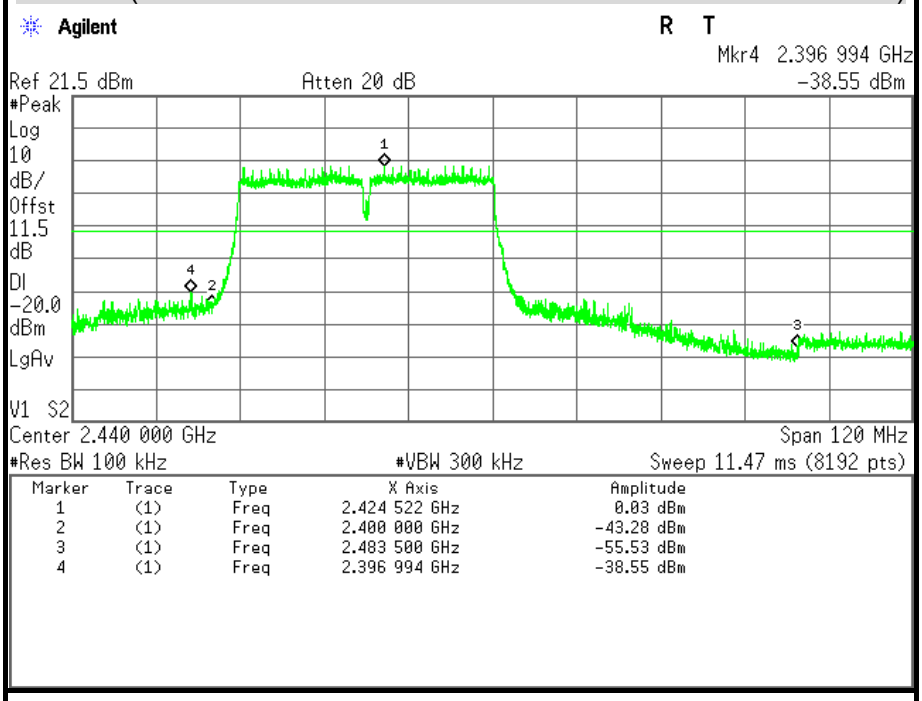
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.455 771 GHz	2.34 dBm
2	(1)	Freq	2.400 000 GHz	-50.18 dBm
3	(1)	Freq	2.483 500 GHz	-44.93 dBm
4	(1)	Freq	2.489 510 GHz	-39.55 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 0)



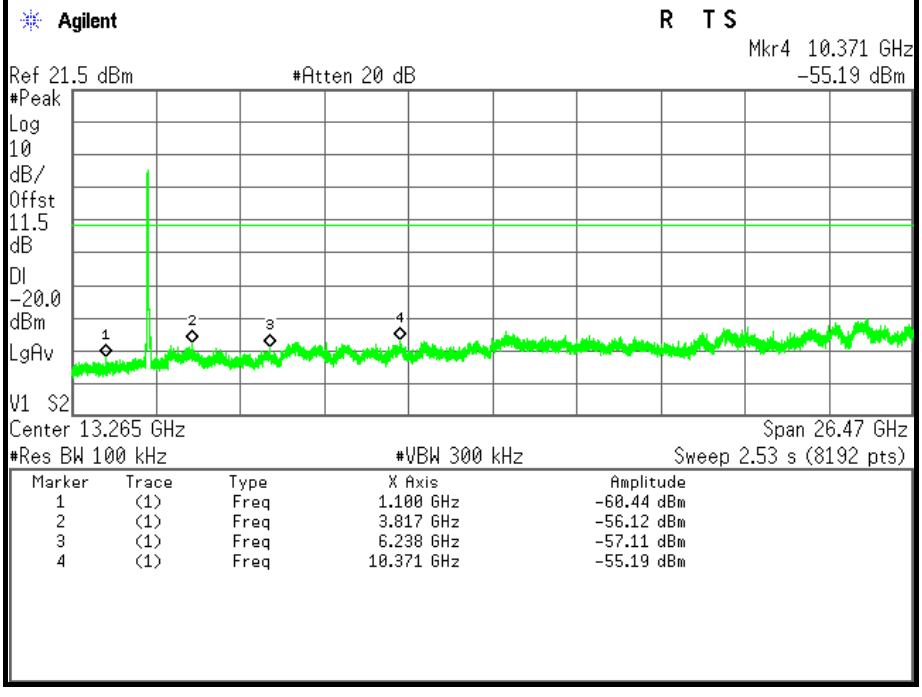
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.108 GHz	-59.86 dBm
2	(1)	Freq	3.094 GHz	-57.08 dBm
3	(1)	Freq	7.065 GHz	-55.51 dBm
4	(1)	Freq	7.834 GHz	-55.02 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 1)



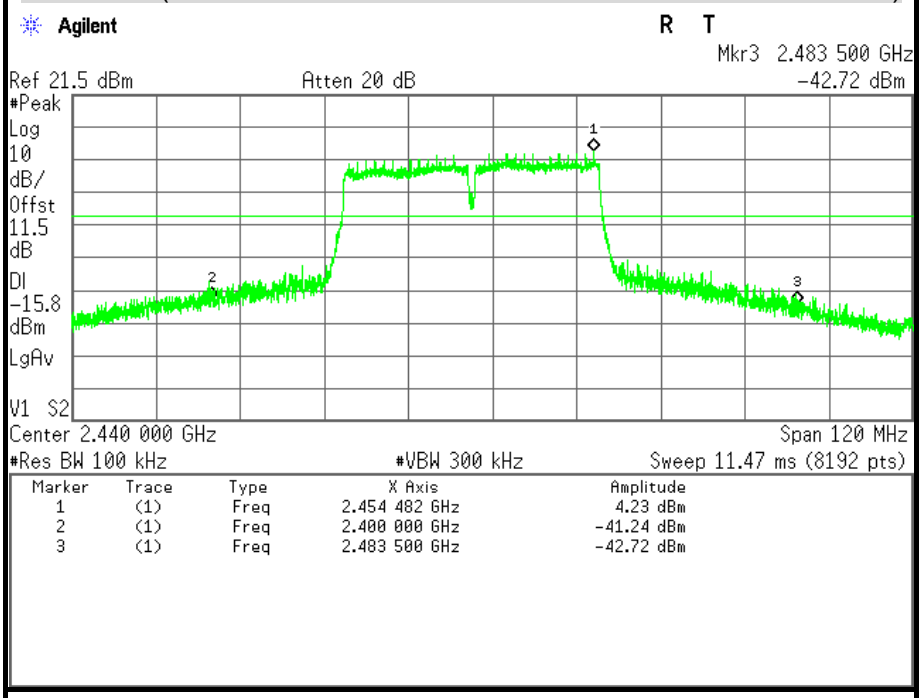
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.424 522 GHz	0.03 dBm
2	(1)	Freq	2.400 000 GHz	-43.28 dBm
3	(1)	Freq	2.483 500 GHz	-55.53 dBm
4	(1)	Freq	2.396 994 GHz	-38.55 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 1)



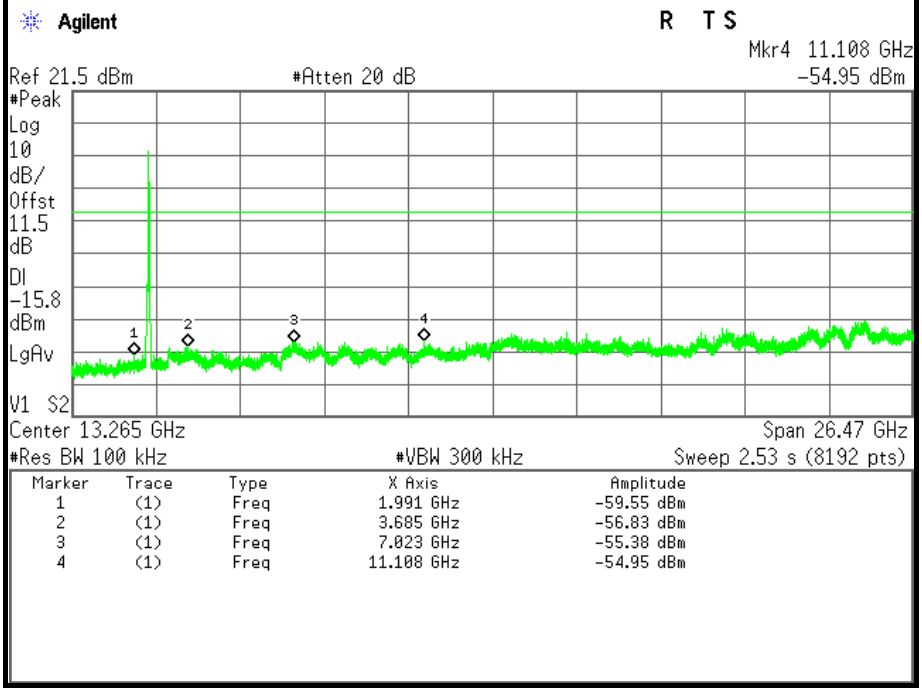
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.100 GHz	-60.44 dBm
2	(1)	Freq	3.817 GHz	-56.12 dBm
3	(1)	Freq	6.238 GHz	-57.11 dBm
4	(1)	Freq	10.371 GHz	-55.19 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 1)



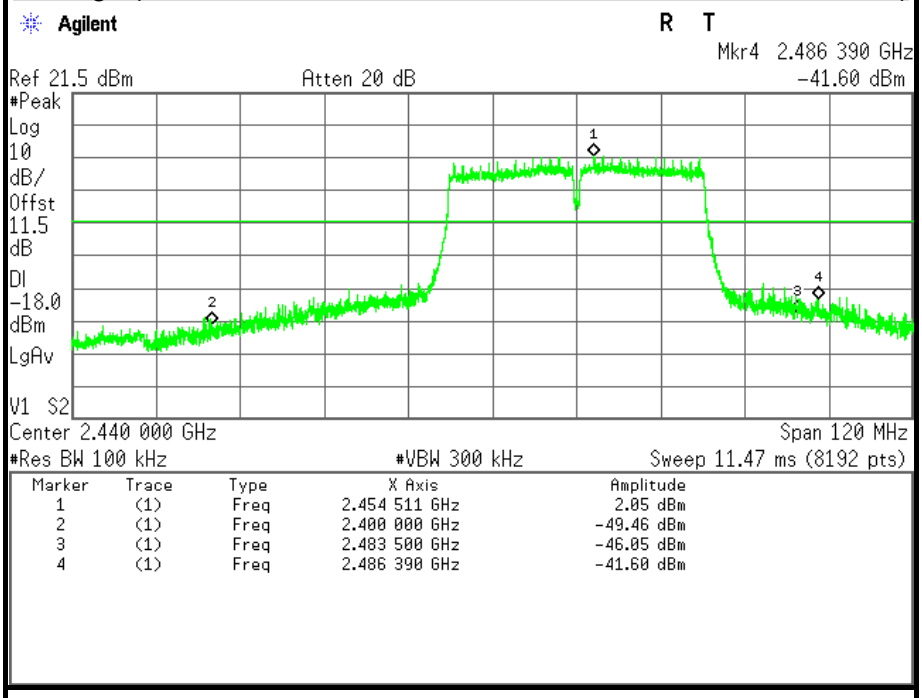
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.454 482 GHz	4.23 dBm
2	(1)	Freq	2.400 000 GHz	-41.24 dBm
3	(1)	Freq	2.483 500 GHz	-42.72 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 1)



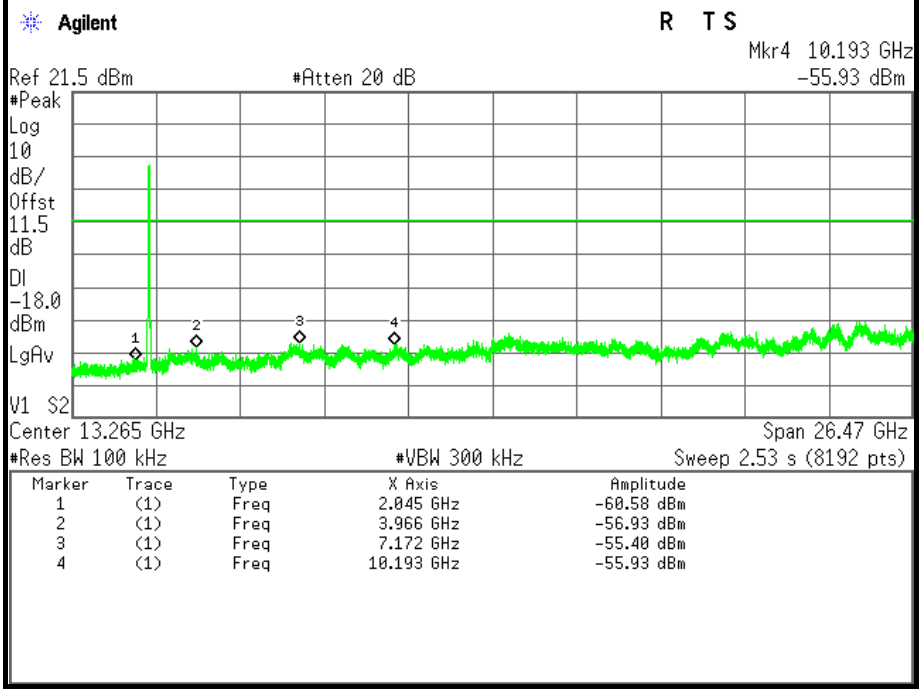
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	1.991 GHz	-59.55 dBm
2	(1)	Freq	3.685 GHz	-56.83 dBm
3	(1)	Freq	7.023 GHz	-55.38 dBm
4	(1)	Freq	11.108 GHz	-54.95 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 1)



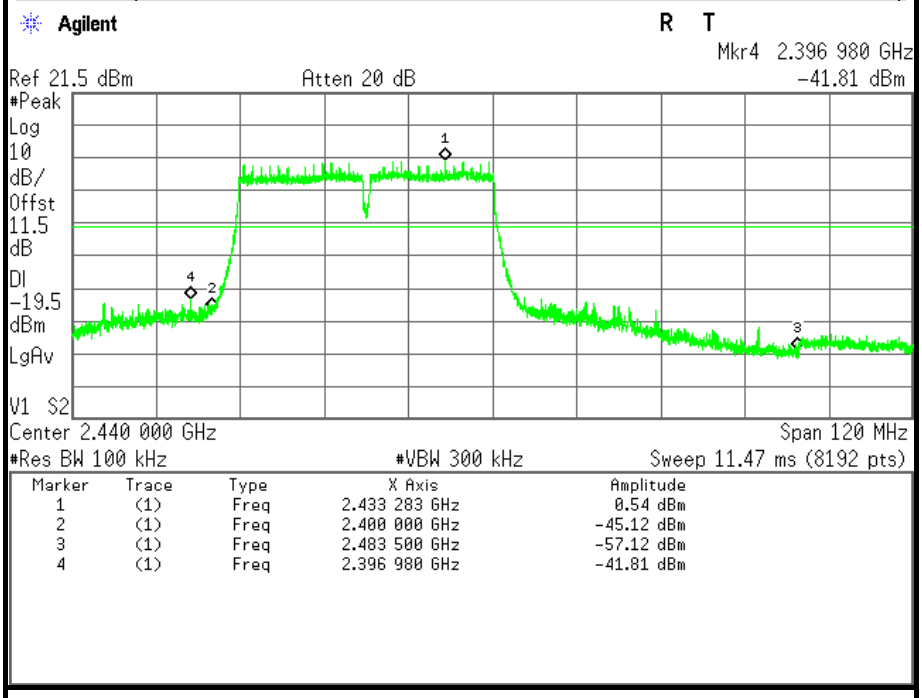
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.454 511 GHz	2.05 dBm
2	(1)	Freq	2.400 000 GHz	-49.46 dBm
3	(1)	Freq	2.483 500 GHz	-46.05 dBm
4	(1)	Freq	2.486 390 GHz	-41.60 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 1)



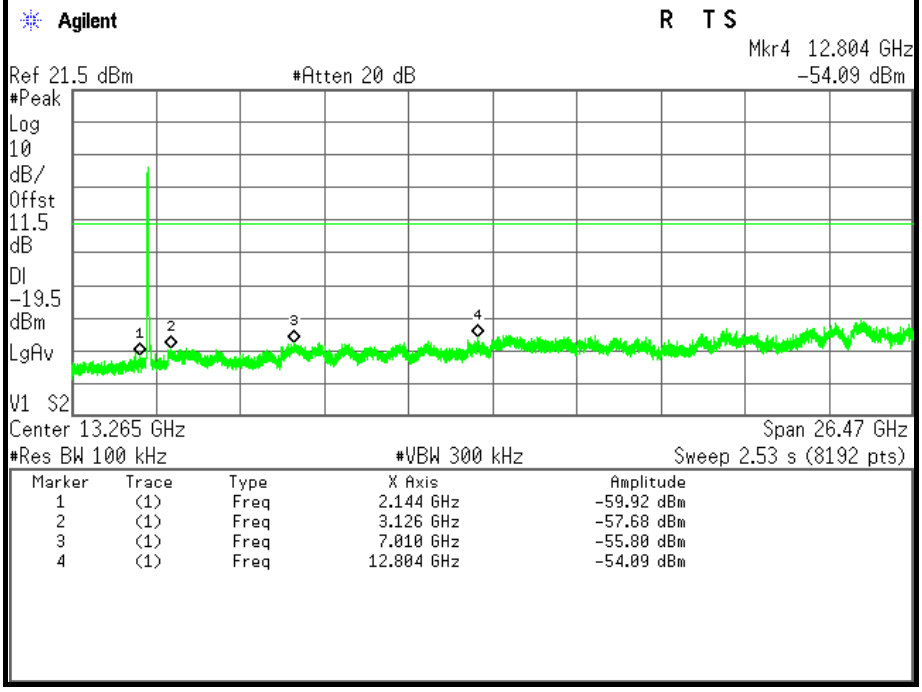
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.045 GHz	-60.58 dBm
2	(1)	Freq	3.966 GHz	-56.93 dBm
3	(1)	Freq	7.172 GHz	-55.40 dBm
4	(1)	Freq	10.193 GHz	-55.93 dBm

CH Low (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 2)



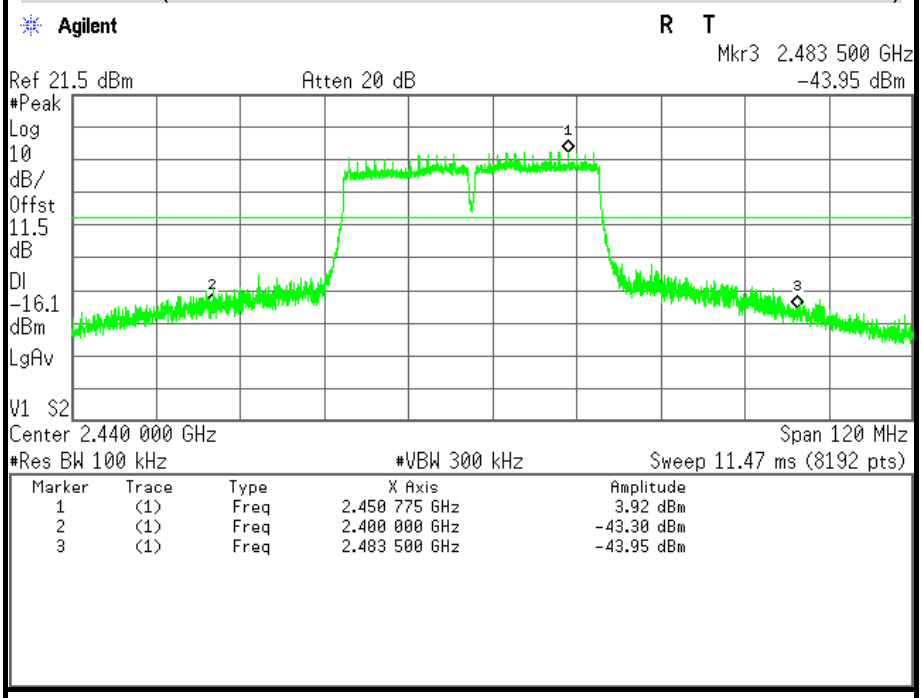
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.433 283 GHz	0.54 dBm
2	(1)	Freq	2.400 000 GHz	-45.12 dBm
3	(1)	Freq	2.483 500 GHz	-57.12 dBm
4	(1)	Freq	2.396 980 GHz	-41.81 dBm

CH Low (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 2)



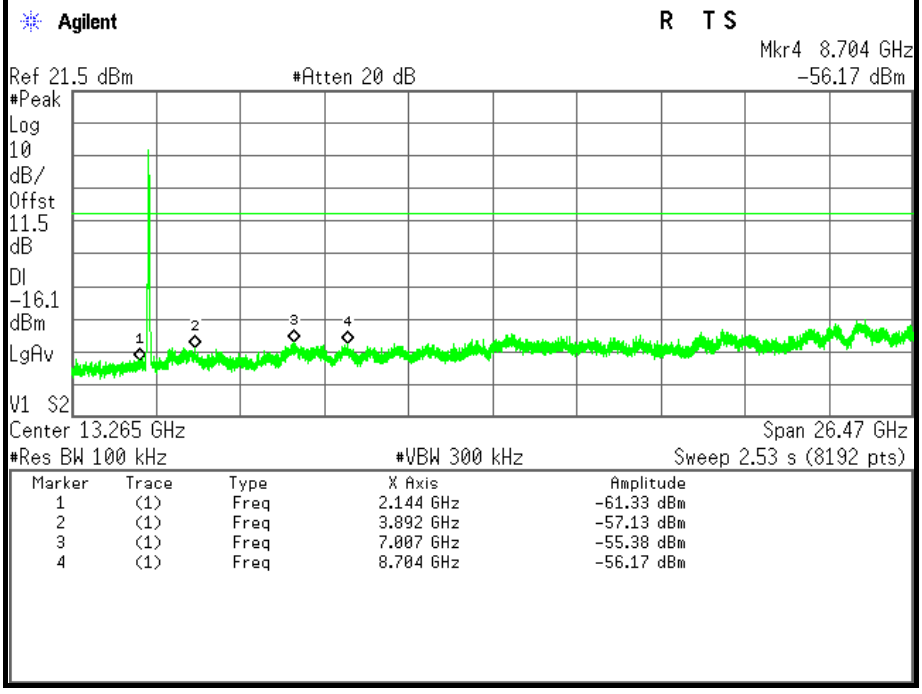
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.144 GHz	-59.92 dBm
2	(1)	Freq	3.126 GHz	-57.68 dBm
3	(1)	Freq	7.010 GHz	-55.80 dBm
4	(1)	Freq	12.804 GHz	-54.09 dBm

CH Middle (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 2)



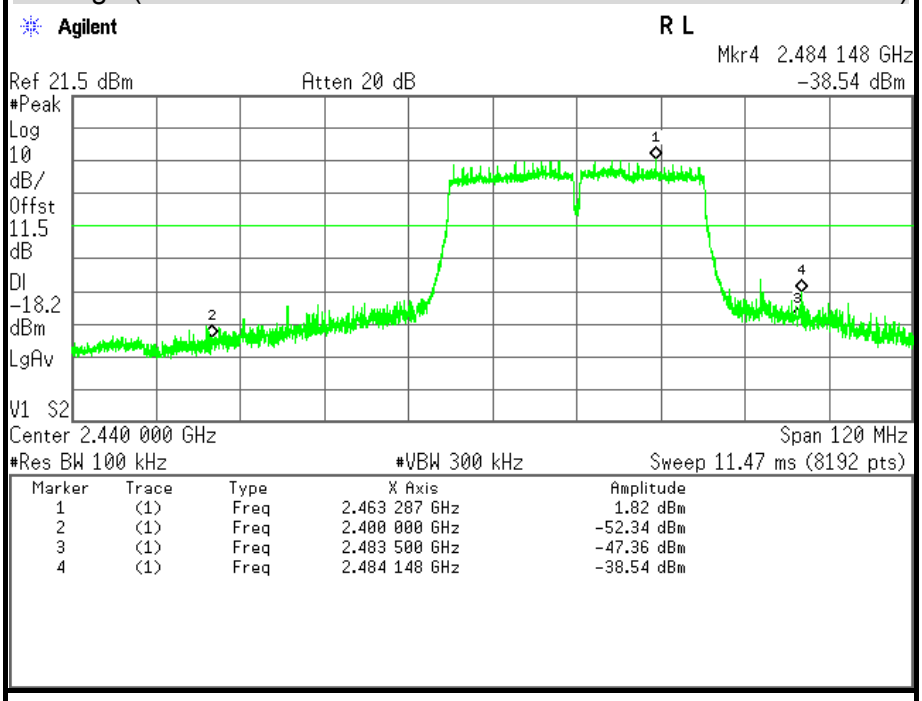
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.450 775 GHz	3.92 dBm
2	(1)	Freq	2.400 000 GHz	-43.30 dBm
3	(1)	Freq	2.483 500 GHz	-43.95 dBm

CH Middle (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 2)



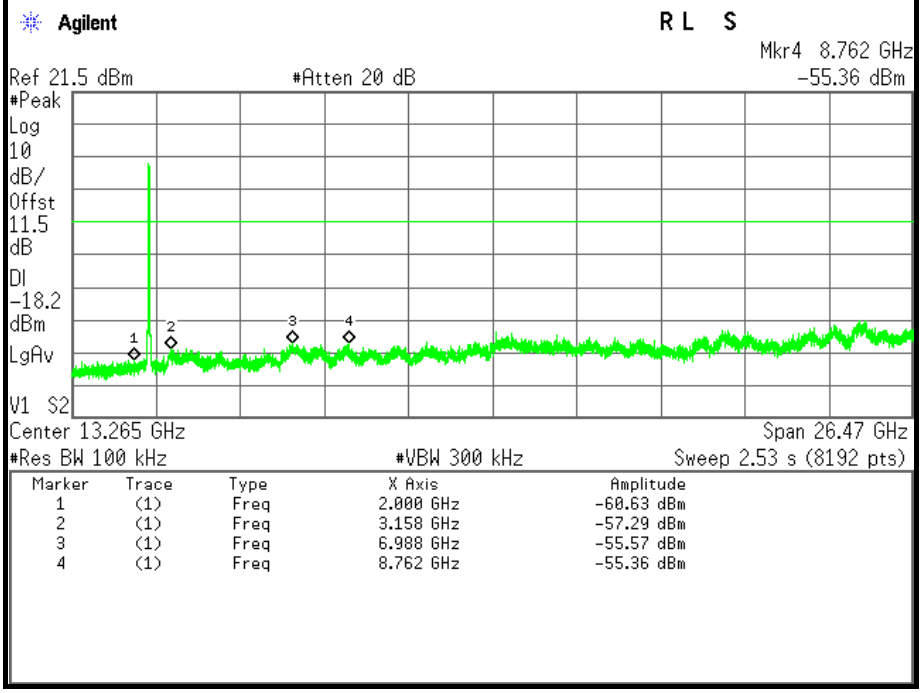
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.144 GHz	-61.33 dBm
2	(1)	Freq	3.892 GHz	-57.13 dBm
3	(1)	Freq	7.007 GHz	-55.38 dBm
4	(1)	Freq	8.704 GHz	-56.17 dBm

CH High (2.38GHz ~ 2.5GHz / IEEE 802.11n HT40 Mode / Chain 2)



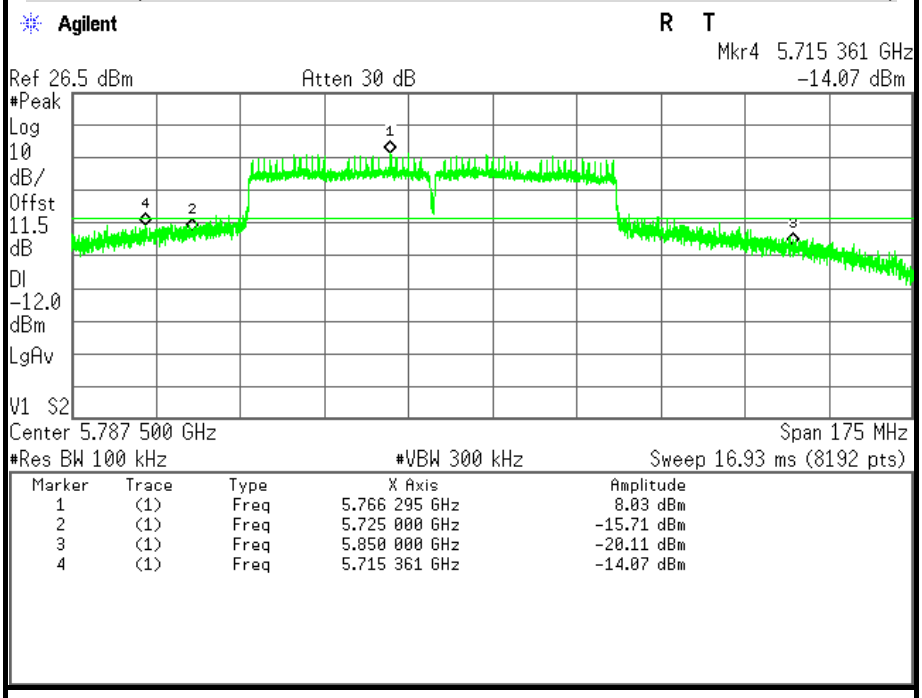
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.463 287 GHz	1.82 dBm
2	(1)	Freq	2.400 000 GHz	-52.34 dBm
3	(1)	Freq	2.483 500 GHz	-47.36 dBm
4	(1)	Freq	2.484 148 GHz	-38.54 dBm

CH High (30MHz ~ 26.5GHz / IEEE 802.11n HT40 Mode / Chain 2)



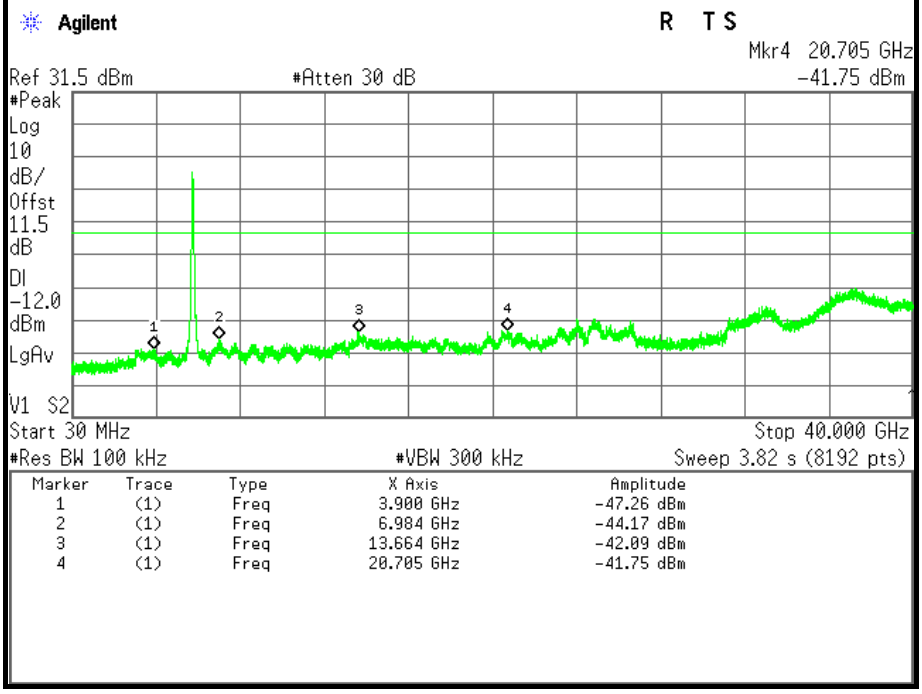
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	2.000 GHz	-60.63 dBm
2	(1)	Freq	3.158 GHz	-57.29 dBm
3	(1)	Freq	6.988 GHz	-55.57 dBm
4	(1)	Freq	8.762 GHz	-55.36 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11ac HT80 Mode / Chain 0)



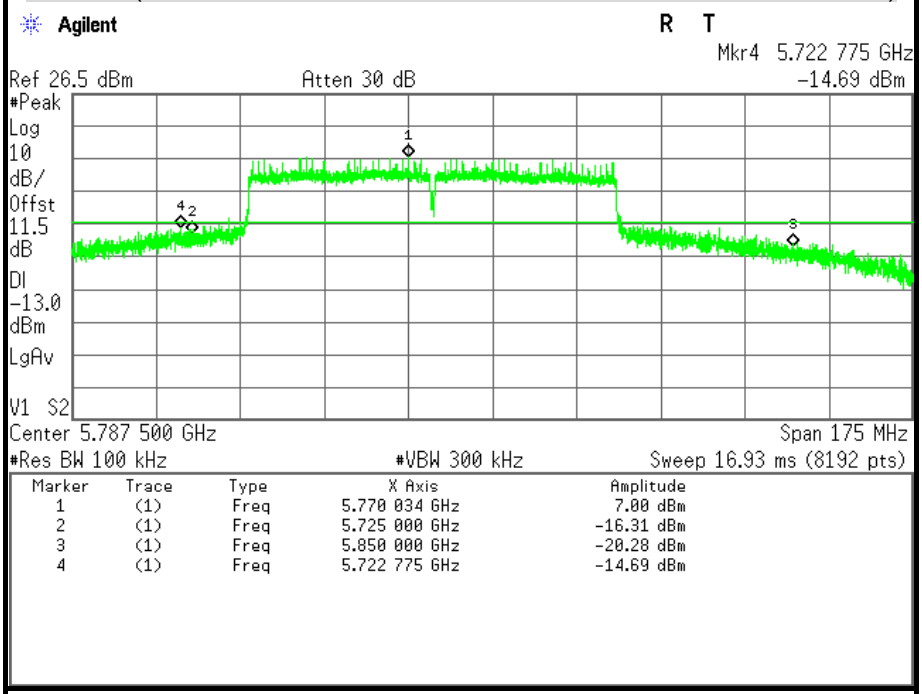
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.766 295 GHz	8.03 dBm
2	(1)	Freq	5.725 000 GHz	-15.71 dBm
3	(1)	Freq	5.850 000 GHz	-20.11 dBm
4	(1)	Freq	5.715 361 GHz	-14.07 dBm

CH Low (30GHz ~ 40GHz / IEEE 802.11ac HT80 Mode / Chain 0)



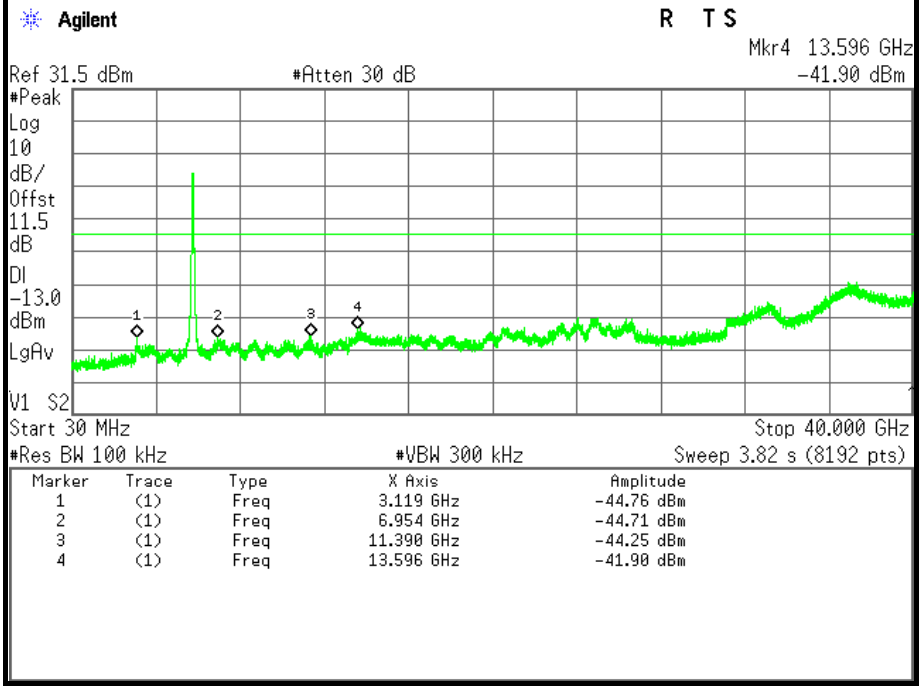
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.900 GHz	-47.26 dBm
2	(1)	Freq	6.984 GHz	-44.17 dBm
3	(1)	Freq	13.664 GHz	-42.09 dBm
4	(1)	Freq	20.705 GHz	-41.75 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11ac HT80 Mode / Chain 1)



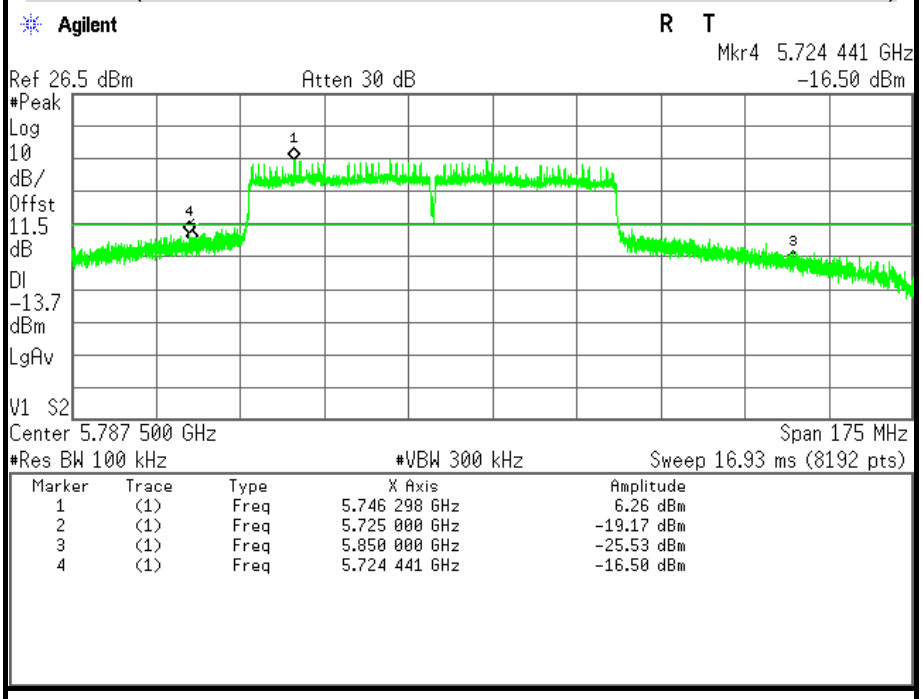
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.770 034 GHz	7.00 dBm
2	(1)	Freq	5.725 000 GHz	-16.31 dBm
3	(1)	Freq	5.850 000 GHz	-20.28 dBm
4	(1)	Freq	5.722 775 GHz	-14.69 dBm

CH Low (30GHz ~ 40GHz / IEEE 802.11ac HT80 Mode / Chain 1)



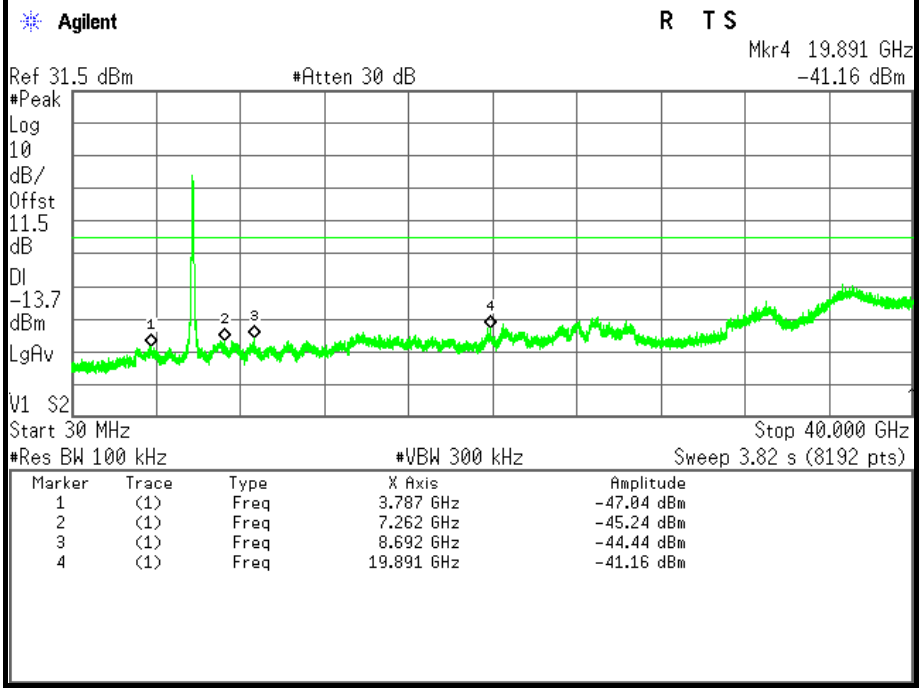
Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.119 GHz	-44.76 dBm
2	(1)	Freq	6.954 GHz	-44.71 dBm
3	(1)	Freq	11.390 GHz	-44.25 dBm
4	(1)	Freq	13.596 GHz	-41.90 dBm

CH Low (5.7GHz ~ 5.875GHz / IEEE 802.11ac HT80 Mode / Chain 2)



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	5.746 298 GHz	6.26 dBm
2	(1)	Freq	5.725 000 GHz	-19.17 dBm
3	(1)	Freq	5.850 000 GHz	-25.53 dBm
4	(1)	Freq	5.724 441 GHz	-16.50 dBm

CH Low (30GHz ~ 40GHz / IEEE 802.11ac HT80 Mode / Chain 2)



Marker	Trace	Type	X Axis	Amplitude
1	(1)	Freq	3.787 GHz	-47.04 dBm
2	(1)	Freq	7.262 GHz	-45.24 dBm
3	(1)	Freq	8.692 GHz	-44.44 dBm
4	(1)	Freq	19.891 GHz	-41.16 dBm

7.5 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	([2])
13.36 - 13.41			

Remark:
1. [1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2. [2] Above 38.6

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(KHz)	300
0.490 – 1.705	24000/F(KHz)	30
1.705 – 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

Remark: ***Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber_B

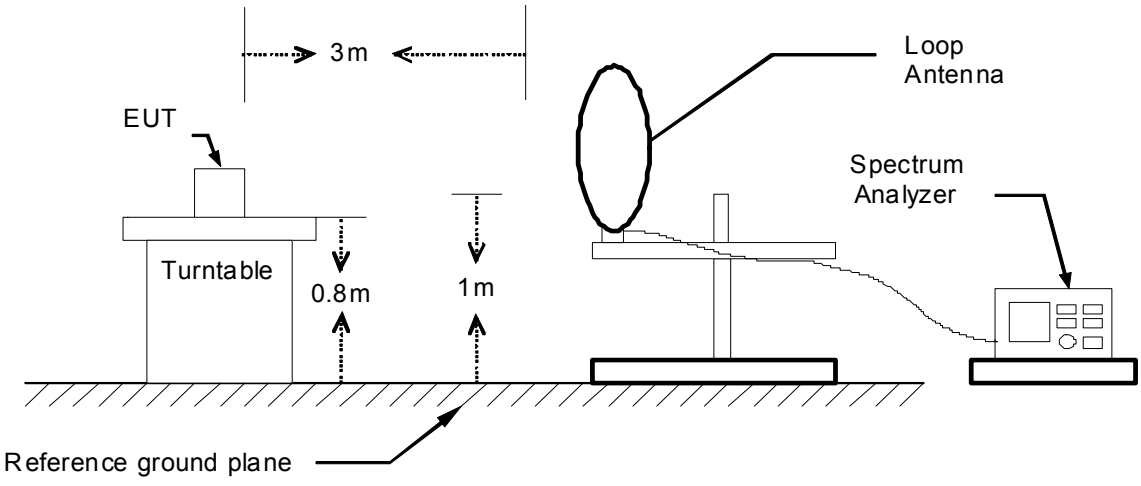
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/15/2014
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101131	01/14/2014
Broad-Band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-778	09/12/2014
Bi-log Antenna	SCHWARZBECK	VULB 9168	9168-250	09/12/2014
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	12/11/2013
Horn Antenna	COM-POWER	AH-840	03077	12/20/2013
Pre-Amplifier	Agilent	8447D	2944A10052	07/16/2014
Pre-Amplifier	Agilent	8449B	3008A01916	07/16/2014
LOOP Antenna	EMCO	6502	8905-2356	08/20/2014
Notch Filters Band Reject	Micro-Tronics	BRM05702-01	026	N.C.R
Band Reject Filter	Micro-Tronics	BRC50703-01	004	N.C.R
Band Reject Filter	Micro-Tronics	BRC50704-01	004	N.C.R
Band Reject Filter	Micro-Tronics	BRC50705-01	007	N.C.R

Remark: *1. Each piece of equipment is scheduled for calibration once a year.*
2. N.C.R = No Calibration Request.

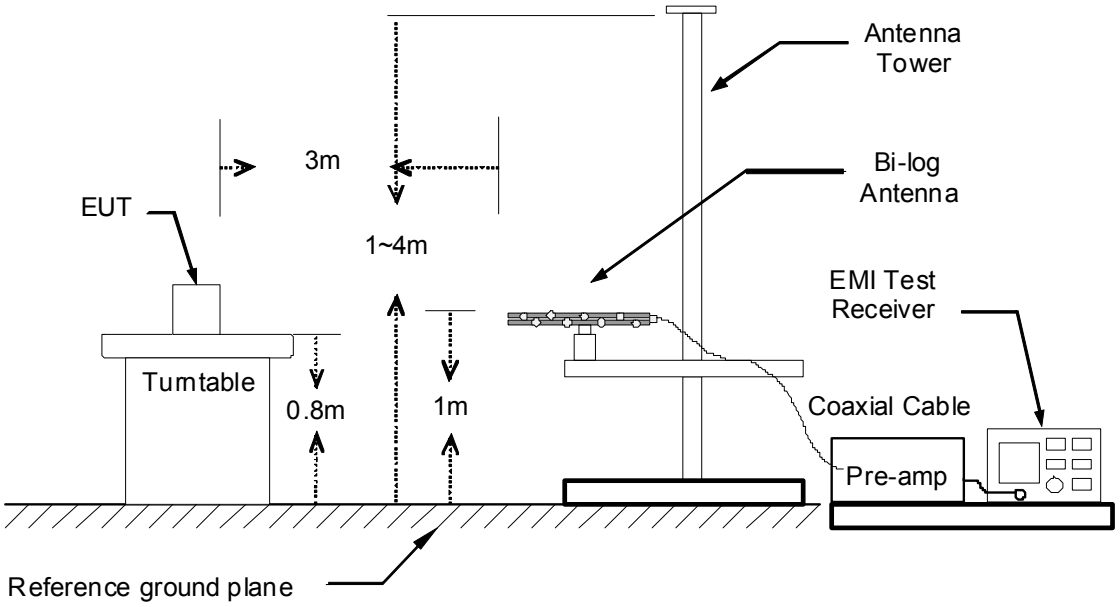
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

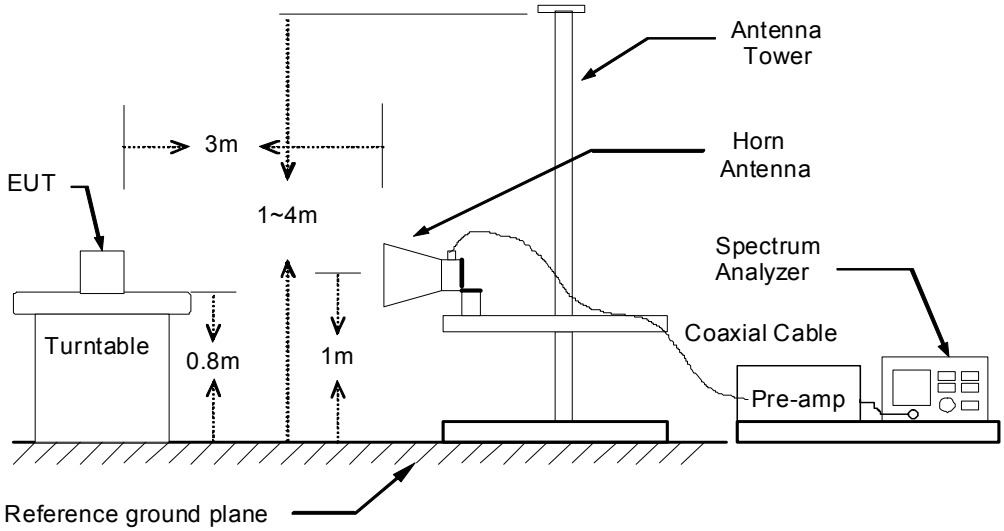
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark：

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	Cable modem	Test By	Alan Wu
Test Model	5363	Test Date	2013/11/18
Test Mode	Normal Operating / Adapter 1	Temp. & Humidity	24°C, 48%

966 Chamber_B at 3Meter / Horizontal						
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
64.92	46.11	-15.17	30.94	40.00	-9.06	Peak
199.75	55.38	-16.04	39.34	43.50	-4.16	Peak
340.40	48.23	-11.09	37.15	46.00	-8.85	Peak
624.61	41.63	-5.81	35.82	46.00	-10.18	Peak
874.87	39.24	-1.64	37.61	46.00	-8.39	Peak
949.56	31.38	-0.60	30.77	46.00	-15.23	Peak
1000.00	30.81	0.37	31.18	54.00	-22.82	Peak

966 Chamber_B at 3Meter / Vertical						
Frequency (MHz)	Reading (dBµV)	Correction Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
65.89	51.50	-15.39	36.11	40.00	-3.89	QP
151.25	52.98	-13.63	39.35	43.50	-4.15	Peak
199.75	55.17	-16.04	39.12	43.50	-4.38	Peak
509.18	43.84	-8.06	35.78	46.00	-10.22	Peak
624.61	38.85	-5.81	33.04	46.00	-12.96	Peak
749.74	35.98	-3.58	32.40	46.00	-13.60	Peak
874.87	35.95	-1.64	34.31	46.00	-11.69	Peak
948.59	33.52	-0.62	32.91	46.00	-13.09	Peak

Remark:

1. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
2. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
3. *Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)*
4. *Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)*
5. *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).*

Product Name	Cable modem	Test By	Alan Wu
Test Model	5363	Test Date	2013/11/18
Test Mode	Normal Operating / Adapter 2	Temp. & Humidity	24°C, 48%

966 Chamber_B at 3Meter / Horizontal						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
64.92	45.95	-15.17	30.79	40.00	-9.21	Peak
149.31	46.29	-13.68	32.61	43.50	-10.89	Peak
199.75	54.83	-16.04	38.79	43.50	-4.71	Peak
340.40	50.05	-11.09	38.96	46.00	-7.04	Peak
370.47	45.31	-10.50	34.81	46.00	-11.19	Peak
624.61	40.77	-5.81	34.96	46.00	-11.04	Peak
749.74	37.25	-3.58	33.68	46.00	-12.32	Peak
874.87	39.66	-1.64	38.02	46.00	-7.98	Peak
1000.00	30.83	0.37	31.20	54.00	-22.80	Peak

966 Chamber_B at 3Meter / Vertical						
Frequency (MHz)	Reading (dBμV)	Correction Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
65.89	51.20	-15.39	35.81	40.00	-4.19	QP
105.66	50.97	-17.92	33.05	43.50	-10.45	Peak
151.25	51.74	-13.63	38.11	43.50	-5.39	Peak
504.33	42.66	-8.13	34.53	46.00	-11.47	Peak
533.43	42.40	-7.68	34.72	46.00	-11.28	Peak
874.87	36.16	-1.64	34.52	46.00	-11.48	Peak

Remark:

1. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
2. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
3. *Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)*
4. *Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)*
5. *Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).*

Above 1 GHz

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11a TX / CH Low	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1015.00	55.22	---	-4.44	50.78	---	74.00	54.00	-3.22	Peak
1235.00	54.24	---	-3.93	50.31	---	74.00	54.00	-3.69	Peak
1630.00	53.35	---	-1.86	51.49	---	74.00	54.00	-2.51	Peak
5270.00	57.22	43.90	9.60	66.82	53.50	74.00	54.00	-0.50	AVG
6216.00	50.98	41.42	11.69	62.67	53.11	74.00	54.00	-0.89	AVG
6684.00	38.63	---	12.42	51.05	---	74.00	54.00	-2.95	Peak
6924.00	38.74	---	12.35	51.09	---	74.00	54.00	-2.91	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1065.00	55.33	---	-4.33	51.00	---	74.00	54.00	-3.00	Peak
1320.00	54.09	---	-3.72	50.36	---	74.00	54.00	-3.64	Peak
1400.00	53.42	---	-3.54	49.89	---	74.00	54.00	-4.11	Peak
5265.00	54.10	43.60	9.60	63.70	53.20	74.00	54.00	-0.80	AVG
6216.00	45.70	36.08	11.69	57.39	47.77	74.00	54.00	-6.23	AVG
6384.00	41.89	30.05	12.15	54.04	42.20	74.00	54.00	-11.80	AVG
6528.00	42.52	30.04	12.46	54.98	42.50	74.00	54.00	-11.50	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11a TX / CH Middle	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1175.00	54.41	---	-4.07	50.34	---	74.00	54.00	-3.66	Peak
1315.00	53.37	---	-3.74	49.63	---	74.00	54.00	-4.37	Peak
1640.00	53.52	---	-1.75	51.76	---	74.00	54.00	-2.24	Peak
5300.00	57.81	43.86	9.64	67.45	53.50	74.00	54.00	-0.50	AVG
6024.00	47.35	36.52	11.17	58.52	47.69	74.00	54.00	-6.31	AVG
6264.00	50.35	40.08	11.82	62.17	51.90	74.00	54.00	-2.10	AVG
6540.00	41.89	29.69	12.46	54.35	42.15	74.00	54.00	-11.85	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1165.00	54.45	---	-4.09	50.36	---	74.00	54.00	-3.64	Peak
1345.00	53.68	---	-3.67	50.01	---	74.00	54.00	-3.99	Peak
1540.00	53.65	---	-2.86	50.79	---	74.00	54.00	-3.21	Peak
5300.00	54.30	43.85	9.64	63.94	53.49	74.00	54.00	-0.51	AVG
6024.00	49.78	40.19	11.17	60.95	51.36	74.00	54.00	-2.64	AVG
6264.00	46.17	35.83	11.82	57.99	47.65	74.00	54.00	-6.35	AVG
6480.00	41.65	30.33	12.42	54.07	42.75	74.00	54.00	-11.25	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11a TX / CH High	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1255.00	54.46	---	-3.88	50.59	---	74.00	54.00	-3.41	Peak
1445.00	53.41	---	-3.43	49.98	---	74.00	54.00	-4.02	Peak
1690.00	52.62	---	-1.20	51.42	---	74.00	54.00	-2.58	Peak
5335.00	57.80	43.80	9.69	67.49	53.49	74.00	54.00	-0.51	AVG
6072.00	47.18	38.11	11.30	58.48	49.41	74.00	54.00	-4.59	AVG
6312.00	50.26	40.85	11.95	62.21	52.80	74.00	54.00	-1.20	AVG
6600.00	39.16	---	12.44	51.61	---	74.00	54.00	-2.39	Peak

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1090.00	54.77	---	-4.27	50.50	---	74.00	54.00	-3.50	Peak
1360.00	54.60	---	-3.63	50.97	---	74.00	54.00	-3.03	Peak
1665.00	53.06	---	-1.48	51.58	---	74.00	54.00	-2.42	Peak
5335.00	55.20	43.80	9.69	64.89	53.49	74.00	54.00	-0.51	AVG
6072.00	48.89	38.67	11.30	60.19	49.97	74.00	54.00	-4.03	AVG
6312.00	44.96	34.78	11.95	56.91	46.73	74.00	54.00	-7.27	AVG
6720.00	39.39	---	12.41	51.80	---	74.00	54.00	-2.20	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11an HT20 TX / CH Low	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1180.00	54.00	---	-4.06	49.95	---	74.00	54.00	-4.05	Peak
1350.00	53.60	---	-3.65	49.95	---	74.00	54.00	-4.05	Peak
1595.00	53.74	---	-2.25	51.48	---	74.00	54.00	-2.52	Peak
5260.00	57.20	43.90	9.59	66.79	53.49	74.00	54.00	-0.51	AVG
6228.00	50.89	40.31	11.72	62.61	52.03	74.00	54.00	-1.97	AVG
6612.00	39.49	---	12.44	51.93	---	74.00	54.00	-2.07	Peak
6936.00	39.39	---	12.35	51.73	---	74.00	54.00	-2.27	Peak

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1310.00	54.70	---	-3.75	50.96	---	74.00	54.00	-3.04	AVG
1605.00	53.68	---	-2.14	51.54	---	74.00	54.00	-2.46	Peak
4795.00	50.60	37.11	8.65	59.25	45.76	74.00	54.00	-8.24	AVG
5260.00	53.71	43.55	9.59	63.30	53.14	74.00	54.00	-0.86	AVG
6036.00	45.96	33.69	11.20	57.16	44.89	74.00	54.00	-9.11	AVG
6228.00	46.87	35.75	11.72	58.59	47.47	74.00	54.00	-6.53	AVG
11520.00	37.76	27.32	20.32	58.08	47.64	74.00	54.00	-6.36	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11an HT20 TX / CH Middle	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1250.00	54.93	---	-3.89	51.04	---	74.00	54.00	-2.96	Peak
1370.00	53.96	---	-3.61	50.35	---	74.00	54.00	-3.65	Peak
1640.00	53.07	---	-1.75	51.32	---	74.00	54.00	-2.68	Peak
5295.00	55.70	43.81	9.64	65.34	53.45	74.00	54.00	-0.55	AVG
6024.00	47.20	38.23	11.17	58.37	49.40	74.00	54.00	-4.60	AVG
6264.00	49.58	40.80	11.82	61.40	52.62	74.00	54.00	-1.38	AVG
6744.00	41.76	32.22	12.40	54.16	44.62	74.00	54.00	-9.38	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1180.00	54.07	---	-4.06	50.02	---	74.00	54.00	-3.98	Peak
1310.00	54.52	---	-3.75	50.77	---	74.00	54.00	-3.23	Peak
1715.00	55.00	39.72	-0.93	54.07	38.79	74.00	54.00	-15.21	Peak
5305.00	55.06	43.55	9.65	64.71	53.20	74.00	54.00	-0.80	Peak
6024.00	50.90	40.74	11.17	62.07	51.91	74.00	54.00	-2.09	Peak
6276.00	45.97	37.13	11.86	57.83	48.99	74.00	54.00	-5.01	Peak
11568.00	41.51	29.39	20.46	61.97	49.85	74.00	54.00	-4.15	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11an HT20 TX / CH High	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1195.00	54.61	---	-4.02	50.59	---	74.00	54.00	-3.41	Peak
1365.00	54.06	---	-3.62	50.44	---	74.00	54.00	-3.56	Peak
1560.00	53.87	---	-2.64	51.23	---	74.00	54.00	-2.77	Peak
5340.00	57.26	43.79	9.70	66.96	53.49	74.00	54.00	-0.51	AVG
6060.00	47.97	38.34	11.26	59.23	49.60	74.00	54.00	-4.40	AVG
6312.00	50.35	40.78	11.95	62.30	52.73	74.00	54.00	-1.27	AVG
6924.00	38.53	---	12.35	50.88	---	74.00	54.00	-3.12	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1100.00	54.32	---	-4.24	50.07	---	74.00	54.00	-3.93	Peak
1350.00	54.42	---	-3.65	50.76	---	74.00	54.00	-3.24	Peak
1530.00	54.07	---	-2.97	51.10	---	74.00	54.00	-2.90	Peak
5340.00	53.41	42.75	9.70	63.11	52.45	74.00	54.00	-1.55	AVG
6060.00	49.79	40.37	11.26	61.05	51.63	74.00	54.00	-2.37	AVG
6312.00	46.22	34.60	11.95	58.17	46.55	74.00	54.00	-7.45	AVG
11652.00	41.59	30.19	20.69	62.28	50.88	74.00	54.00	-3.12	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11an HT40 TX / CH Low	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1215.00	54.30	---	-3.97	50.33	---	74.00	54.00	-3.67	Peak
1330.00	54.85	---	-3.70	51.15	---	74.00	54.00	-2.85	Peak
1440.00	53.45	---	-3.44	50.01	---	74.00	54.00	-3.99	Peak
1600.00	53.03	---	-2.20	50.84	---	74.00	54.00	-3.16	Peak
6144.00	44.24	32.24	11.49	55.73	43.73	74.00	54.00	-10.27	AVG
6720.00	43.75	36.87	12.41	56.16	49.28	74.00	54.00	-4.72	AVG
11604.00	40.31	26.62	20.55	60.86	47.17	74.00	54.00	-6.83	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1145.00	54.63	---	-4.14	50.49	---	74.00	54.00	-3.51	Peak
1305.00	54.76	---	-3.76	51.00	---	74.00	54.00	-3.00	Peak
1580.00	53.87	---	-2.42	51.45	---	74.00	54.00	-2.55	Peak
1635.00	53.19	---	-1.81	51.38	---	74.00	54.00	-2.62	Peak
6012.00	46.57	35.86	11.13	57.70	46.99	74.00	54.00	-7.01	AVG
6444.00	42.40	29.90	12.32	54.72	42.22	74.00	54.00	-11.78	AVG
6720.00	42.30	29.06	12.41	54.71	41.47	74.00	54.00	-12.53	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11an HT40 TX / CH High	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1125.00	55.33	---	-4.18	51.14	---	74.00	54.00	-2.86	Peak
1320.00	54.39	---	-3.72	50.66	---	74.00	54.00	-3.34	Peak
1450.00	54.34	---	-3.42	50.92	---	74.00	54.00	-3.08	Peak
1590.00	53.79	---	-2.31	51.49	---	74.00	54.00	-2.51	Peak
6036.00	45.49	34.22	11.20	56.69	45.42	74.00	54.00	-8.58	AVG
6480.00	42.42	29.42	12.42	54.84	41.84	74.00	54.00	-12.16	AVG
6936.00	39.10	---	12.35	51.45	---	74.00	54.00	-2.55	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1165.00	55.25	---	-4.09	51.16	---	74.00	54.00	-2.84	Peak
1285.00	54.26	---	-3.81	50.45	---	74.00	54.00	-3.55	Peak
1440.00	53.49	---	-3.44	50.05	---	74.00	54.00	-3.95	Peak
1625.00	53.34	---	-1.92	51.42	---	74.00	54.00	-2.58	Peak
6048.00	48.25	36.86	11.23	59.48	48.09	74.00	54.00	-5.91	AVG
6480.00	41.90	29.87	12.42	54.32	42.29	74.00	54.00	-11.71	AVG
6924.00	38.22	---	12.35	50.57	---	74.00	54.00	-3.43	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11b TX / CH Low	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1052.00	50.89	---	-4.36	46.53	---	74.00	54.00	-7.47	Peak
1278.00	49.81	---	-3.82	45.99	---	74.00	54.00	-8.01	Peak
1438.00	49.89	---	-3.45	46.44	---	74.00	54.00	-7.56	Peak
2492.00	56.14	50.22	3.10	59.24	53.32	74.00	54.00	-0.68	AVG
3735.00	41.64	---	5.93	47.57	---	74.00	54.00	-6.43	Peak
4380.00	39.51	---	7.56	47.06	---	74.00	54.00	-6.94	Peak
4830.00	48.38	44.74	8.75	57.13	53.49	74.00	54.00	-0.51	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	52.03	---	-4.29	47.74	---	74.00	54.00	-6.26	Peak
1220.00	50.18	---	-3.96	46.22	---	74.00	54.00	-7.78	Peak
1374.00	50.58	---	-3.60	46.98	---	74.00	54.00	-7.02	Peak
2490.00	53.52	45.04	3.09	56.61	48.13	74.00	54.00	-5.87	AVG
3165.00	40.79	---	4.92	45.71	---	74.00	54.00	-8.29	Peak
4125.00	39.19	---	7.02	46.21	---	74.00	54.00	-7.79	Peak
4830.00	47.65	44.65	8.75	56.40	53.40	74.00	54.00	-0.60	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11b TX / CH Middle	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1126.00	51.03	---	-4.18	46.85	---	74.00	54.00	-7.15	Peak
1300.00	50.19	---	-3.77	46.41	---	74.00	54.00	-7.59	Peak
2390.00	51.70	39.19	2.91	54.61	42.10	74.00	54.00	-11.90	AVG
2483.50	51.50	40.11	3.08	54.58	43.19	74.00	54.00	-10.81	AVG
2500.00	51.27	38.66	3.11	54.38	41.77	74.00	54.00	-12.23	AVG
3735.00	42.53	---	5.93	48.46	---	74.00	54.00	-5.54	Peak
4110.00	39.48	---	6.99	46.47	---	74.00	54.00	-7.53	Peak
4875.00	47.89	44.42	8.88	56.77	53.30	74.00	54.00	-0.70	AVG

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1126.00	51.82	---	-4.18	47.64	---	74.00	54.00	-6.36	Peak
1376.00	50.26	---	-3.59	46.66	---	74.00	54.00	-7.34	Peak
2483.50	48.60	---	3.08	51.68	---	74.00	54.00	-2.32	Peak
2500.00	48.52	---	3.11	51.63	---	74.00	54.00	-2.37	Peak
3165.00	41.12	---	4.92	46.04	---	74.00	54.00	-7.96	Peak
3945.00	40.19	---	6.59	46.78	---	74.00	54.00	-7.22	Peak
4875.00	47.14	44.29	8.88	56.02	53.17	74.00	54.00	-0.83	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11b TX / CH High	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1068.00	51.19	---	-4.32	46.87	---	74.00	54.00	-7.13	Peak
1196.00	49.66	---	-4.02	45.64	---	74.00	54.00	-8.36	Peak
1374.00	50.41	---	-3.60	46.81	---	74.00	54.00	-7.19	Peak
2382.00	58.08	50.47	2.90	60.98	53.37	74.00	54.00	-0.63	AVG
3390.00	41.04	---	5.10	46.14	---	74.00	54.00	-7.86	Peak
3735.00	40.93	---	5.93	46.86	---	74.00	54.00	-7.14	Peak
4920.00	47.07	44.36	9.01	56.08	53.37	74.00	54.00	-0.63	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1076.00	50.84	---	-4.30	46.54	---	74.00	54.00	-7.46	Peak
1220.00	50.46	---	-3.96	46.50	---	74.00	54.00	-7.50	Peak
1374.00	49.62	---	-3.60	46.02	---	74.00	54.00	-7.98	Peak
2384.00	55.91	47.73	2.90	58.81	50.63	74.00	54.00	-3.37	AVG
3165.00	41.29	---	4.92	46.21	---	74.00	54.00	-7.79	Peak
4485.00	40.11	---	7.78	47.89	---	74.00	54.00	-6.11	Peak
4920.00	48.55	44.49	9.01	57.56	53.50	74.00	54.00	-0.50	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11g TX / CH Low	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1092.00	51.08	---	-4.26	46.82	---	74.00	54.00	-7.18	Peak
1292.00	50.53	---	-3.79	46.74	---	74.00	54.00	-7.26	Peak
1620.00	49.49	---	-1.98	47.51	---	74.00	54.00	-6.49	Peak
2494.00	60.44	49.56	3.10	63.54	52.66	74.00	54.00	-1.34	AVG
3735.00	42.31	---	5.93	48.24	---	74.00	54.00	-5.76	Peak
4245.00	39.55	---	7.27	46.83	---	74.00	54.00	-7.17	Peak
4815.00	48.62	34.28	8.71	57.33	42.99	74.00	54.00	-11.01	AVG

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	51.16	---	-4.29	46.87	---	74.00	54.00	-7.13	Peak
1348.00	50.01	---	-3.66	46.35	---	74.00	54.00	-7.65	Peak
2284.00	49.21	---	2.73	51.93	---	74.00	54.00	-2.07	Peak
2494.00	52.76	42.29	3.10	55.86	45.39	74.00	54.00	-8.61	AVG
3255.00	41.00	---	4.99	45.98	---	74.00	54.00	-8.02	Peak
3840.00	40.61	---	6.26	46.87	---	74.00	54.00	-7.13	Peak
4830.00	40.91	---	8.75	49.67	---	74.00	54.00	-4.33	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11g TX / CH Middle	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1140.00	50.60	---	-4.15	46.45	---	74.00	54.00	-7.55	Peak
1394.00	49.96	---	-3.55	46.41	---	74.00	54.00	-7.59	Peak
2390.00	70.59	49.96	2.91	73.50	52.87	74.00	54.00	-1.13	AVG
2483.50	68.43	48.38	3.08	71.51	51.46	74.00	54.00	-2.54	AVG
3735.00	42.57	---	5.93	48.50	---	74.00	54.00	-5.50	Peak
4875.00	56.45	44.10	8.88	65.33	52.98	74.00	54.00	-1.02	AVG
7305.00	46.22	34.18	13.28	59.50	47.46	74.00	54.00	-6.54	AVG

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	51.53	---	-4.29	47.23	---	74.00	54.00	-6.77	Peak
1374.00	50.31	---	-3.60	46.71	---	74.00	54.00	-7.29	Peak
2390.00	65.35	42.37	2.91	68.26	45.28	74.00	54.00	-8.72	AVG
2483.50	63.67	44.87	3.08	66.75	47.95	74.00	54.00	-6.05	AVG
3945.00	39.48	---	6.59	46.07	---	74.00	54.00	-7.93	Peak
4875.00	53.60	38.78	8.88	62.48	47.66	74.00	54.00	-6.34	AVG
7305.00	44.95	33.98	13.28	58.23	47.26	74.00	54.00	-6.74	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11g TX / CH High	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1046.00	50.34	---	-4.37	45.97	---	74.00	54.00	-8.03	Peak
1208.00	49.41	---	-3.99	45.42	---	74.00	54.00	-8.58	Peak
1374.00	50.19	---	-3.60	46.59	---	74.00	54.00	-7.41	Peak
2384.00	61.41	50.20	2.90	64.31	53.10	74.00	54.00	-0.90	AVG
3735.00	41.88	---	5.93	47.81	---	74.00	54.00	-6.19	Peak
4410.00	39.98	---	7.62	47.60	---	74.00	54.00	-6.40	Peak
4935.00	50.14	38.51	9.05	59.19	47.56	74.00	54.00	-6.44	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	51.12	---	-4.29	46.82	---	74.00	54.00	-7.18	Peak
1376.00	50.14	---	-3.59	46.55	---	74.00	54.00	-7.45	Peak
1632.00	49.28	---	-1.84	47.44	---	74.00	54.00	-6.56	Peak
2384.00	56.48	44.95	2.90	59.38	47.85	74.00	54.00	-6.15	AVG
3180.00	41.61	---	4.93	46.54	---	74.00	54.00	-7.46	Peak
3945.00	40.15	---	6.59	46.73	---	74.00	54.00	-7.27	Peak
4920.00	45.10	32.54	9.01	54.11	41.55	74.00	54.00	-12.45	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11n HT20 TX / CH Low	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1050.00	51.26	---	-4.36	46.89	---	74.00	54.00	-7.11	Peak
1278.00	50.14	---	-3.82	46.32	---	74.00	54.00	-7.68	Peak
1582.00	50.46	---	-2.39	48.07	---	74.00	54.00	-5.93	Peak
2488.00	59.85	49.86	3.09	62.94	52.95	74.00	54.00	-1.05	AVG
3195.00	41.52	---	4.94	46.46	---	74.00	54.00	-7.54	Peak
3735.00	42.01	---	5.93	47.94	---	74.00	54.00	-6.06	Peak
4815.00	43.21	---	8.71	51.92	---	74.00	54.00	-2.08	Peak

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	50.77	---	-4.29	46.48	---	74.00	54.00	-7.52	Peak
1296.00	49.81	---	-3.78	46.03	---	74.00	54.00	-7.97	Peak
1468.00	50.14	---	-3.38	46.77	---	74.00	54.00	-7.23	Peak
2496.00	54.09	42.14	3.10	57.19	45.24	74.00	54.00	-8.76	AVG
3195.00	41.36	---	4.94	46.30	---	74.00	54.00	-7.70	Peak
4470.00	39.60	---	7.75	47.34	---	74.00	54.00	-6.66	Peak
4815.00	39.74	---	8.71	48.45	---	74.00	54.00	-5.55	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11n HT20 TX / CH Middle	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1124.00	50.87	---	-4.19	46.68	---	74.00	54.00	-7.32	Peak
1394.00	49.26	---	-3.55	45.71	---	74.00	54.00	-8.29	Peak
2390.00	70.58	50.22	2.91	73.49	53.13	74.00	54.00	-0.87	AVG
2483.50	70.37	49.57	3.08	73.45	52.65	74.00	54.00	-1.35	AVG
3735.00	42.99	---	5.93	48.92	---	74.00	54.00	-5.08	Peak
4875.00	56.52	44.48	8.88	65.40	53.36	74.00	54.00	-0.64	AVG
7305.00	45.53	33.84	13.28	58.81	47.12	74.00	54.00	-6.88	AVG

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1232.00	49.78	---	-3.93	45.85	---	74.00	54.00	-8.15	Peak
1366.00	49.96	---	-3.62	46.35	---	74.00	54.00	-7.65	Peak
2390.00	67.82	44.85	2.91	70.73	47.76	74.00	54.00	-6.24	AVG
2483.50	65.98	45.72	3.08	69.06	48.80	74.00	54.00	-5.20	AVG
3180.00	42.20	---	4.93	47.13	---	74.00	54.00	-6.87	Peak
4875.00	52.73	42.00	8.88	61.61	50.88	74.00	54.00	-3.12	AVG
7320.00	44.84	33.37	13.32	58.16	46.69	74.00	54.00	-7.31	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11n HT20 TX / CH High	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1154.00	50.79	---	-4.12	46.67	---	74.00	54.00	-7.33	Peak
1284.00	49.36	---	-3.81	45.55	---	74.00	54.00	-8.45	Peak
1422.00	50.07	---	-3.48	46.58	---	74.00	54.00	-7.42	Peak
2390.00	61.91	50.28	2.91	64.82	53.19	74.00	54.00	-0.81	AVG
3735.00	42.58	---	5.93	48.51	---	74.00	54.00	-5.49	Peak
4035.00	40.22	---	6.83	47.06	---	74.00	54.00	-6.94	Peak
4920.00	47.77	36.80	9.01	56.78	45.81	74.00	54.00	-8.19	AVG

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1080.00	51.21	---	-4.29	46.92	---	74.00	54.00	-7.08	Peak
1334.00	49.76	---	-3.69	46.07	---	74.00	54.00	-7.93	Peak
1538.00	49.73	---	-2.88	46.85	---	74.00	54.00	-7.15	Peak
2388.00	57.72	46.03	2.91	60.63	48.94	74.00	54.00	-5.06	AVG
3195.00	41.36	---	4.94	46.30	---	74.00	54.00	-7.70	Peak
4035.00	39.86	---	6.83	46.69	---	74.00	54.00	-7.31	Peak
4920.00	41.69	---	9.01	50.70	---	74.00	54.00	-3.30	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11n HT40 TX / CH Low	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1068.00	49.87	---	-4.32	45.55	---	74.00	54.00	-8.45	Peak
1188.00	50.55	---	-4.04	46.52	---	74.00	54.00	-7.48	Peak
1340.00	50.03	---	-3.68	46.35	---	74.00	54.00	-7.65	Peak
2484.00	51.82	42.71	3.08	54.90	45.79	74.00	54.00	-8.21	AVG
3735.00	42.15	---	5.93	48.08	---	74.00	54.00	-5.92	Peak
4320.00	40.38	---	7.43	47.81	---	74.00	54.00	-6.19	Peak
4845.00	40.57	---	8.80	49.37	---	74.00	54.00	-4.63	Peak

966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1180.00	50.65	---	-4.06	46.59	---	74.00	54.00	-7.41	Peak
1374.00	50.35	---	-3.60	46.75	---	74.00	54.00	-7.25	Peak
1486.00	50.61	---	-3.33	47.27	---	74.00	54.00	-6.73	Peak
2484.00	52.04	40.62	3.08	55.12	43.70	74.00	54.00	-10.30	AVG
3180.00	41.94	---	4.93	46.87	---	74.00	54.00	-7.13	Peak
4470.00	40.22	---	7.75	47.97	---	74.00	54.00	-6.03	Peak
4950.00	39.60	---	9.10	48.70	---	74.00	54.00	-5.30	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11n HT40 TX / CH Middle	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1312.00	50.14	---	-3.74	46.39	---	74.00	54.00	-7.61	Peak
1668.00	49.55	---	-1.45	48.10	---	74.00	54.00	-5.90	Peak
2390.00	70.57	50.40	2.91	73.48	53.31	74.00	54.00	-0.69	AVG
2483.50	70.40	49.95	3.08	73.48	53.03	74.00	54.00	-0.97	AVG
3735.00	42.09	---	5.93	48.02	---	74.00	54.00	-5.98	Peak
4890.00	54.83	43.89	8.93	63.76	52.82	74.00	54.00	-1.18	AVG
7320.00	42.72	32.90	13.32	56.04	46.22	74.00	54.00	-7.78	AVG

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1178.00	49.73	---	-4.06	45.67	---	74.00	54.00	-8.33	Peak
1374.00	50.23	---	-3.60	46.64	---	74.00	54.00	-7.36	Peak
2390.00	69.57	49.18	2.91	72.48	52.09	74.00	54.00	-1.91	AVG
2483.50	69.22	45.74	3.08	72.30	48.82	74.00	54.00	-5.18	AVG
3870.00	40.82	---	6.35	47.17	---	74.00	54.00	-6.83	Peak
4875.00	50.70	39.11	8.88	59.58	47.99	74.00	54.00	-6.01	AVG
7320.00	43.11	31.64	13.32	56.43	44.96	74.00	54.00	-9.04	AVG

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/21
Test Mode	IEEE 802.11n HT40 TX / CH High	Temp. & Humidity	24°C, 51%

966 Chamber_B at 3Meter / Horizontal

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1110.00	50.77	---	-4.22	46.55	---	74.00	54.00	-7.45	Peak
1210.00	49.84	---	-3.98	45.86	---	74.00	54.00	-8.14	Peak
1370.00	49.61	---	-3.61	46.00	---	74.00	54.00	-8.00	Peak
2390.00	62.21	46.58	2.91	65.12	49.49	74.00	54.00	-4.51	AVG
3735.00	41.73	---	5.93	47.66	---	74.00	54.00	-6.34	Peak
4635.00	38.95	---	8.20	47.14	---	74.00	54.00	-6.86	Peak
4905.00	42.06	---	8.97	51.03	---	74.00	54.00	-2.97	Peak

966 Chamber_B at 3Meter / Vertical

Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1110.00	50.93	---	-4.22	46.71	---	74.00	54.00	-7.29	Peak
1326.00	49.67	---	-3.71	45.96	---	74.00	54.00	-8.04	Peak
1544.00	50.09	---	-2.81	47.28	---	74.00	54.00	-6.72	Peak
2390.00	59.20	43.92	2.91	62.11	46.83	74.00	54.00	-7.17	AVG
3870.00	40.39	---	6.35	46.75	---	74.00	54.00	-7.25	Peak
4395.00	39.96	---	7.59	47.55	---	74.00	54.00	-6.45	Peak
4905.00	39.83	---	8.97	48.80	---	74.00	54.00	-5.20	Peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Product Name	Cable modem	Test By	Waternil Guan
Test Model	5363	Test Date	2013/11/23
Test Mode	IEEE 802.11ac HT80 Mode / CH Low	Temp. & Humidity	24°C, 42%

966 Chamber_B at 3Meter / Horizontal									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1155.00	54.65	---	-4.11	50.54	---	74.00	54.00	-3.46	Peak
1290.00	54.56	---	-3.80	50.76	---	74.00	54.00	-3.24	Peak
1390.00	54.26	---	-3.56	50.70	---	74.00	54.00	-3.30	Peak
1495.00	54.56	---	-3.31	51.25	---	74.00	54.00	-2.75	Peak
6036.00	47.74	31.40	11.20	58.94	42.60	74.00	54.00	-11.40	AVG
6636.00	38.61	---	12.43	51.04	---	74.00	54.00	-2.96	Peak
7536.00	40.73	27.05	13.86	54.59	40.91	74.00	54.00	-13.09	AVG

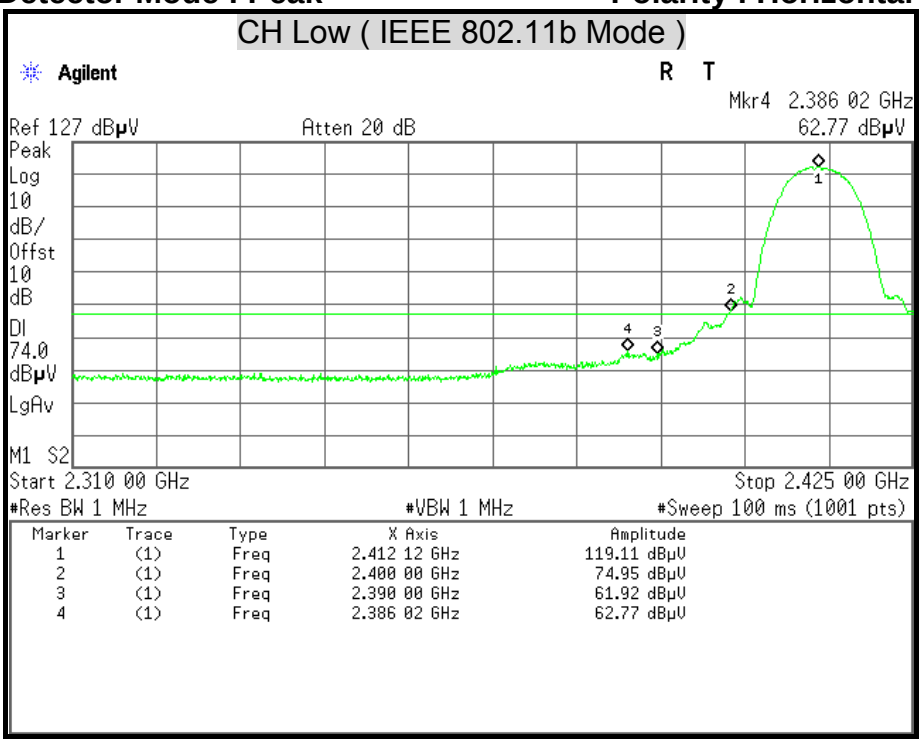
966 Chamber_B at 3Meter / Vertical									
Frequency (MHz)	Reading-PK (dBuV)	Reading-AV (dBuV)	Correction Factor (dB/m)	Result-PK (dBuV/m)	Result-AV (dBuV/m)	Limit-PK (dBuV/m)	Limit-AV (dBuV/m)	Margin (dB)	Remark
1205.00	54.85	---	-4.00	50.86	---	74.00	54.00	-3.14	Peak
1270.00	55.06	---	-3.84	51.22	---	74.00	54.00	-2.78	Peak
1375.00	54.58	---	-3.60	50.98	---	74.00	54.00	-3.02	Peak
1510.00	55.65	---	-3.19	52.46	---	74.00	54.00	-1.54	Peak
6012.00	49.83	35.89	11.13	60.96	47.02	74.00	54.00	-6.98	AVG
6480.00	41.92	30.38	12.42	54.34	42.80	74.00	54.00	-11.20	AVG
6732.00	38.41	---	12.41	50.81	---	74.00	54.00	-3.19	Peak

Remark:

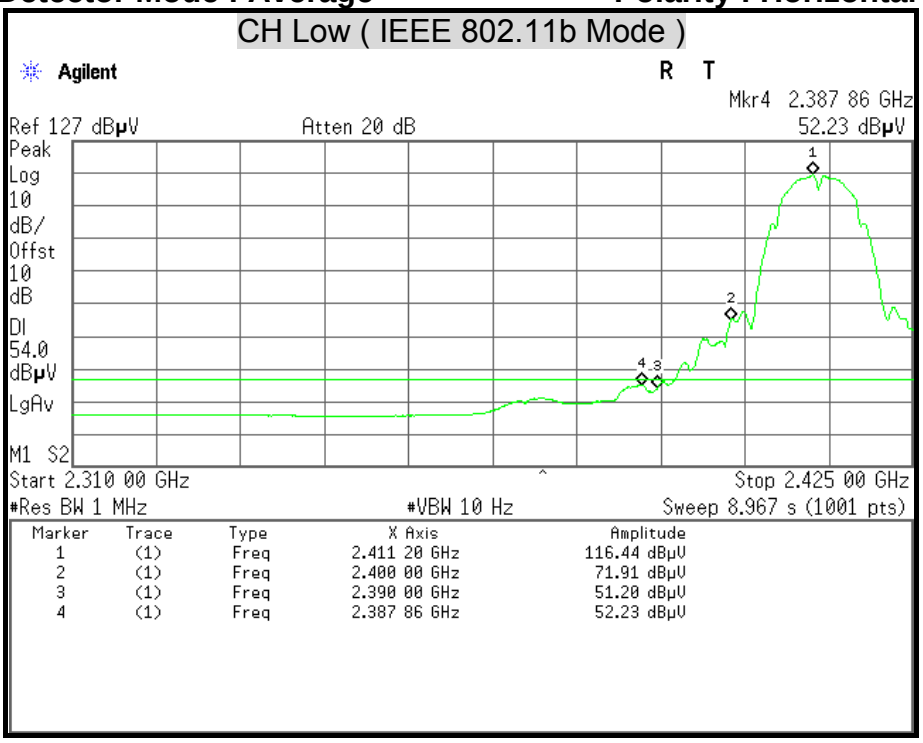
1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Average test would be performed if the peak result were greater than the average limit.*
3. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Result = Reading + Correction Factor*
   Margin = Result – Limit
   Remark Peak = Result(PK) – Limit(AV)
   Remark AVG = Result(AV) – Limit(AV)

Restricted Band Edges

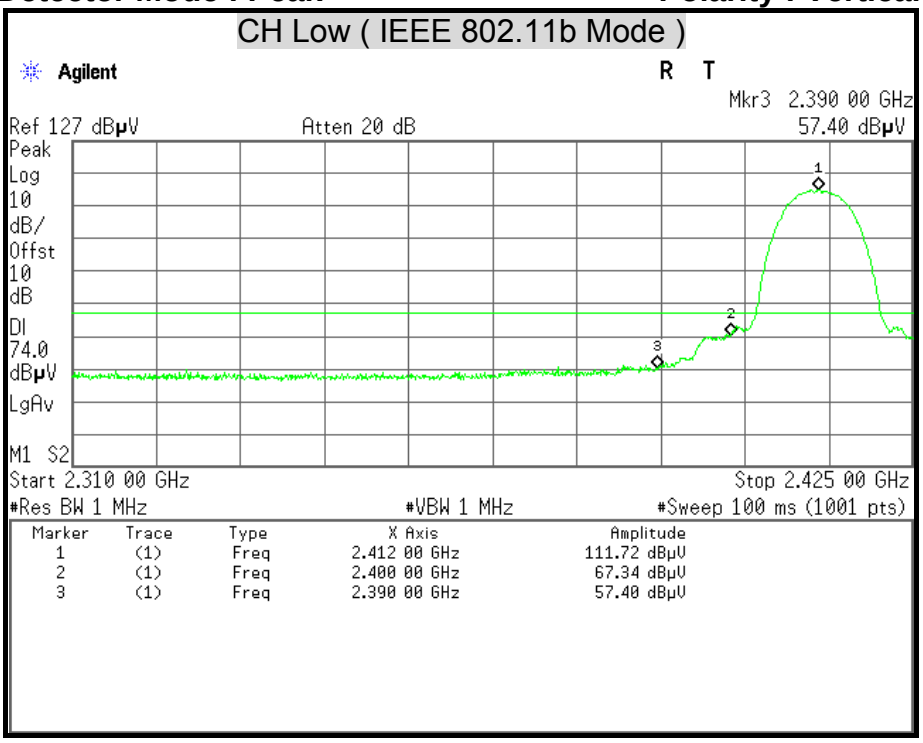
Detector Mode : Peak **Polarity : Horizontal**



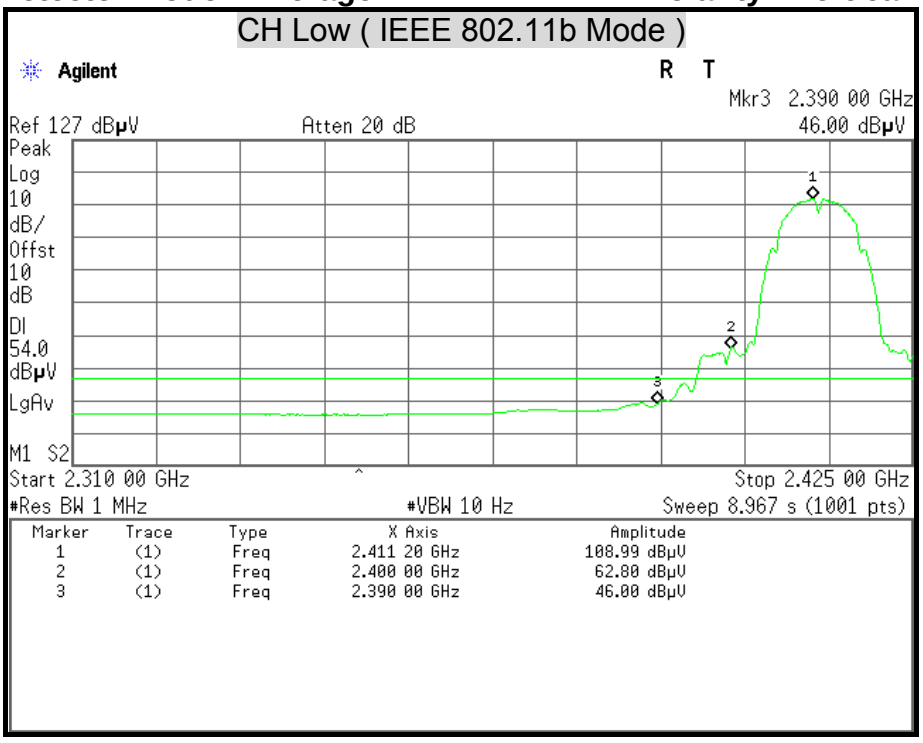
Detector Mode : Average **Polarity : Horizontal**



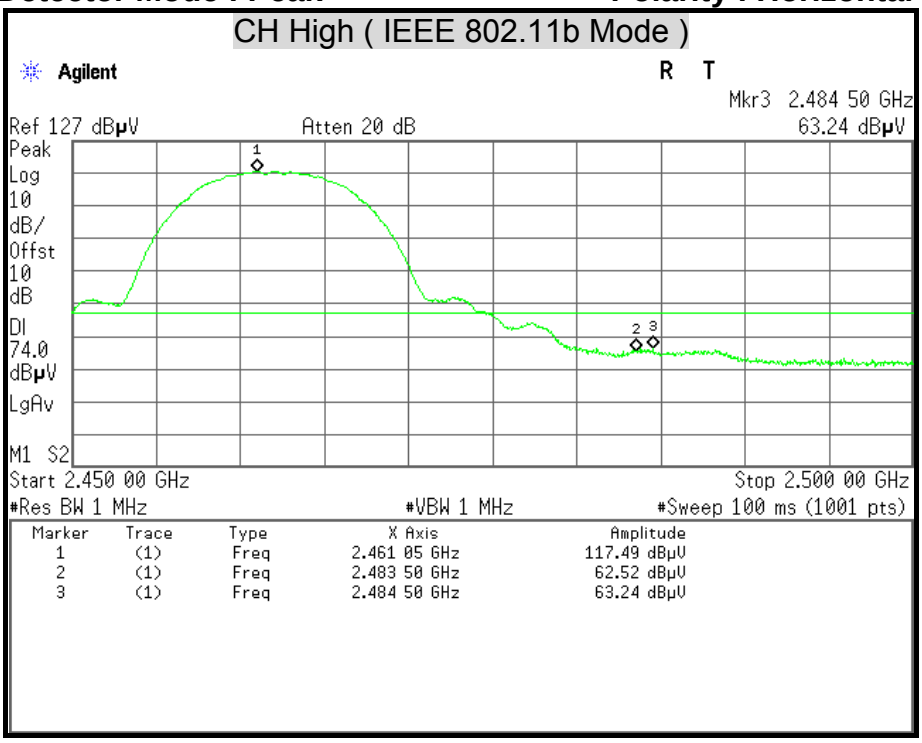
Detector Mode : Peak **Polarity : Vertical**



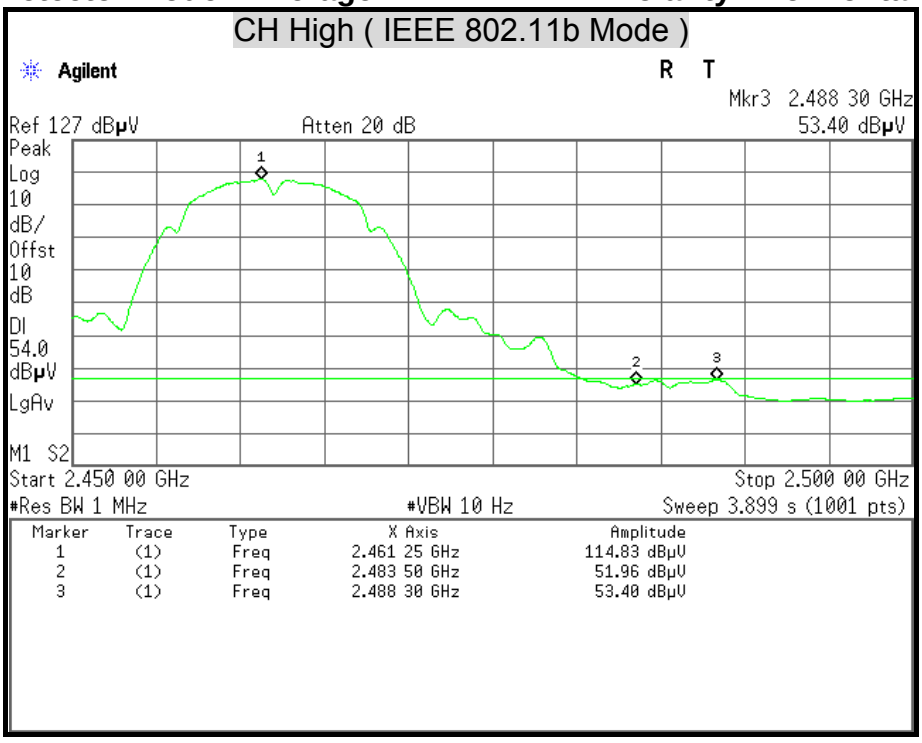
Detector Mode : Average **Polarity : Vertical**



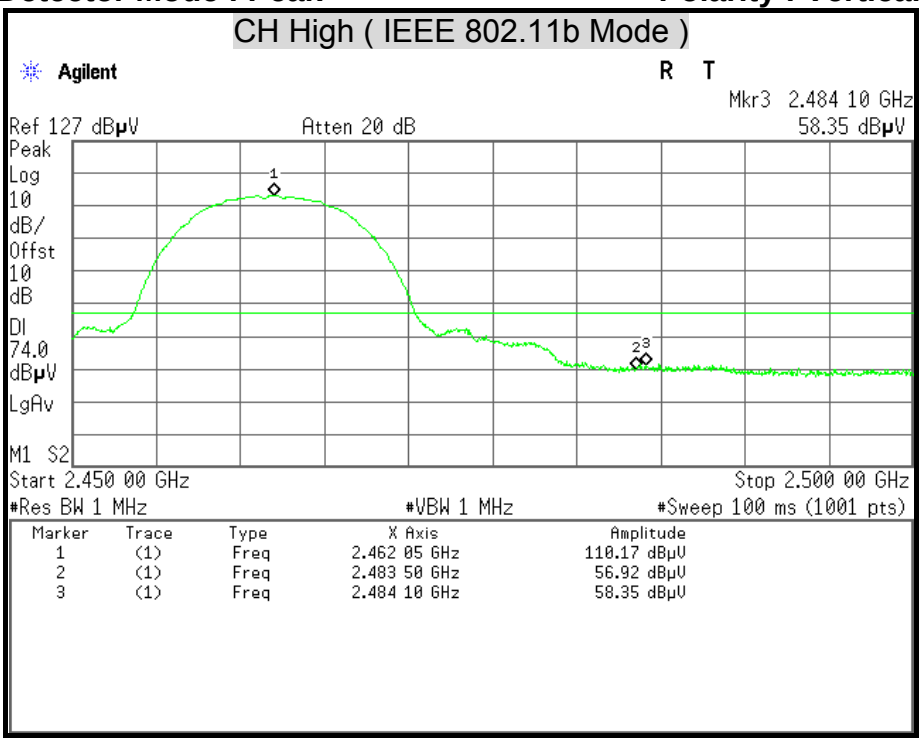
Detector Mode : Peak **Polarity : Horizontal**



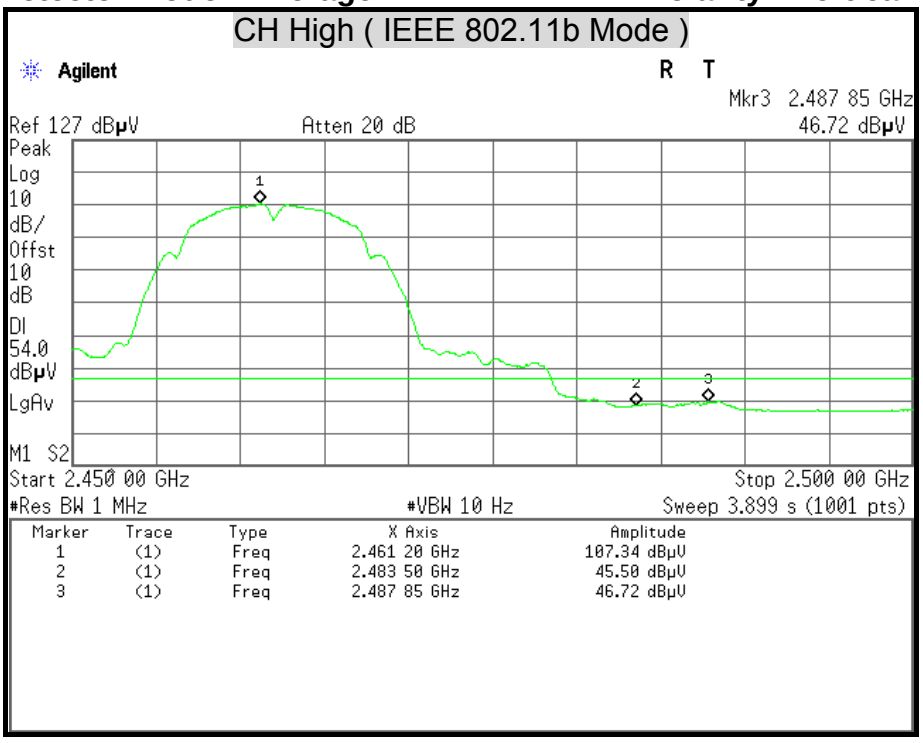
Detector Mode : Average **Polarity : Horizontal**



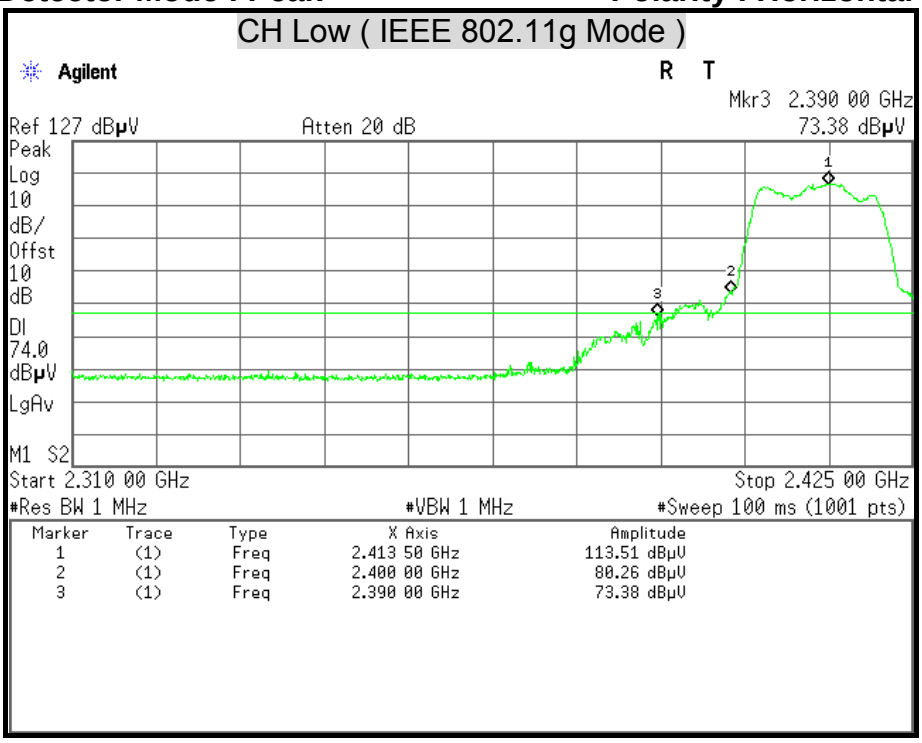
Detector Mode : Peak **Polarity : Vertical**



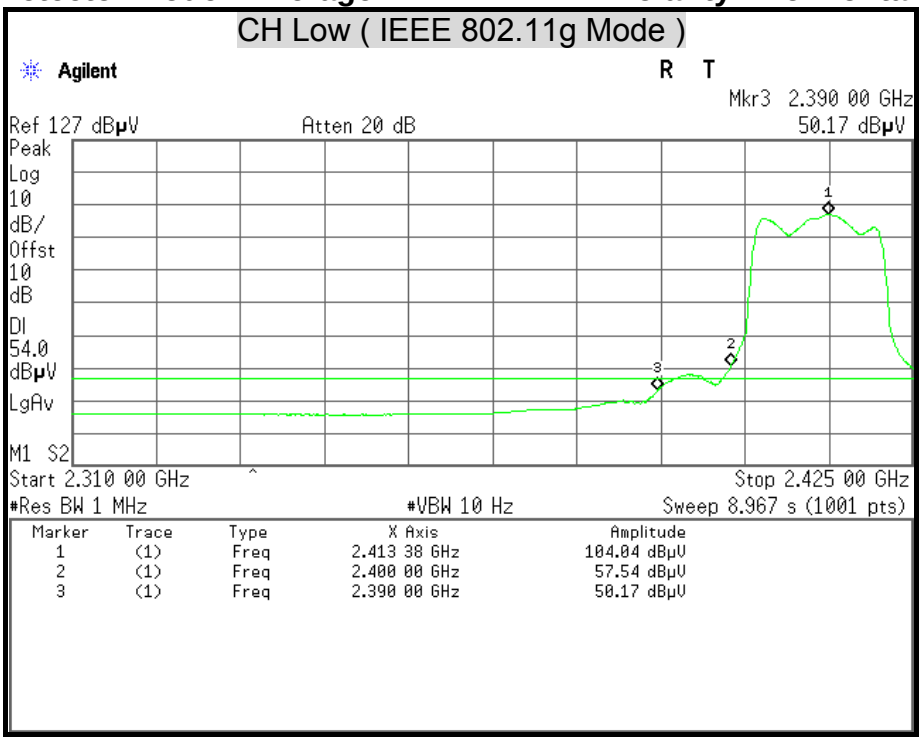
Detector Mode : Average **Polarity : Vertical**



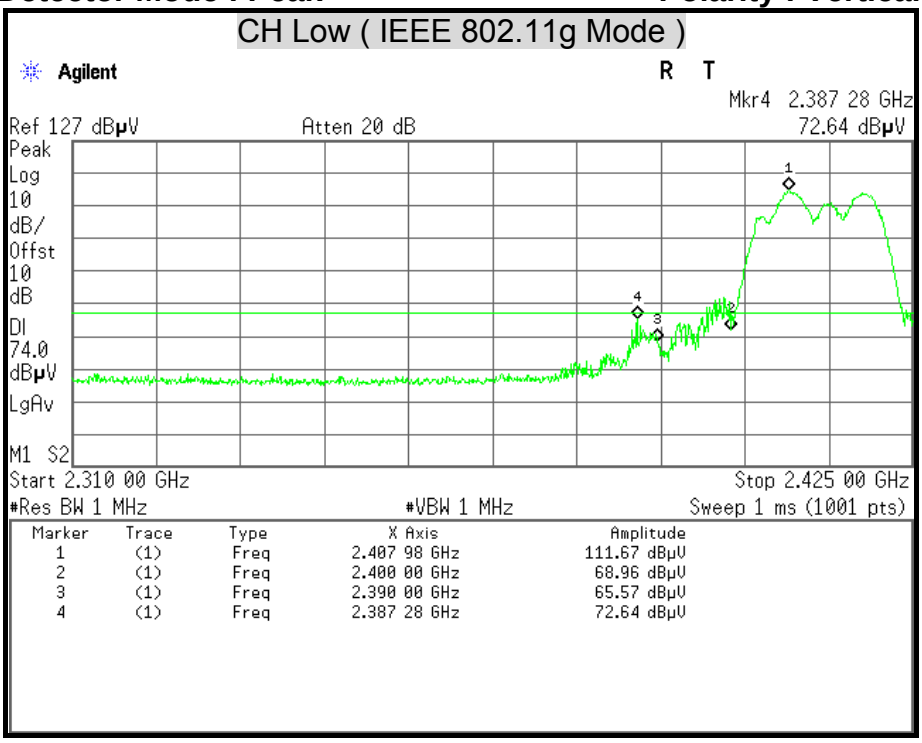
Detector Mode : Peak **Polarity : Horizontal**



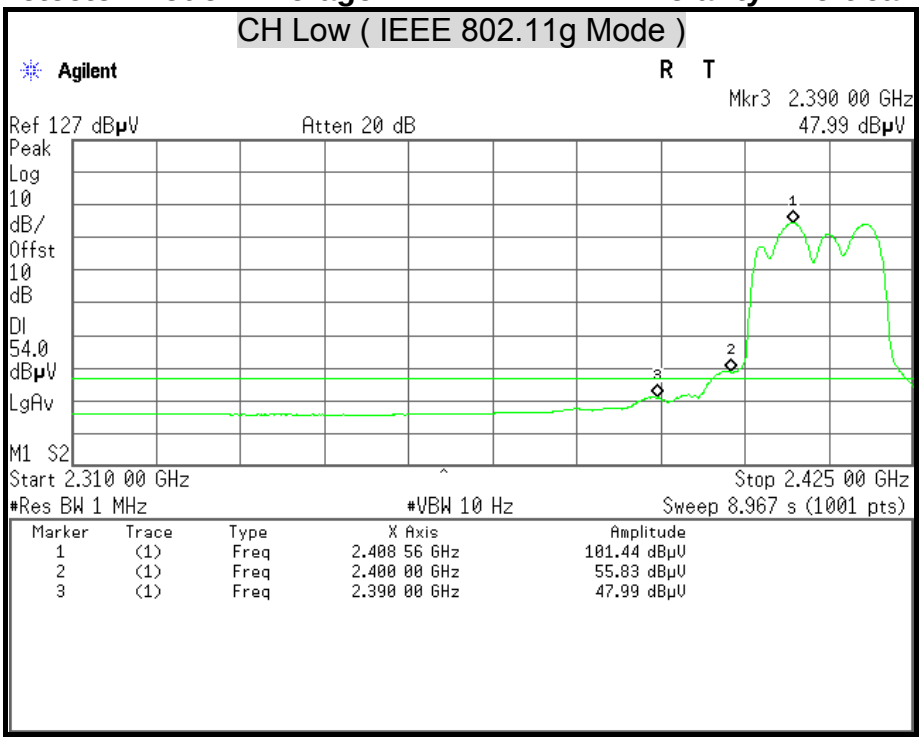
Detector Mode : Average **Polarity : Horizontal**



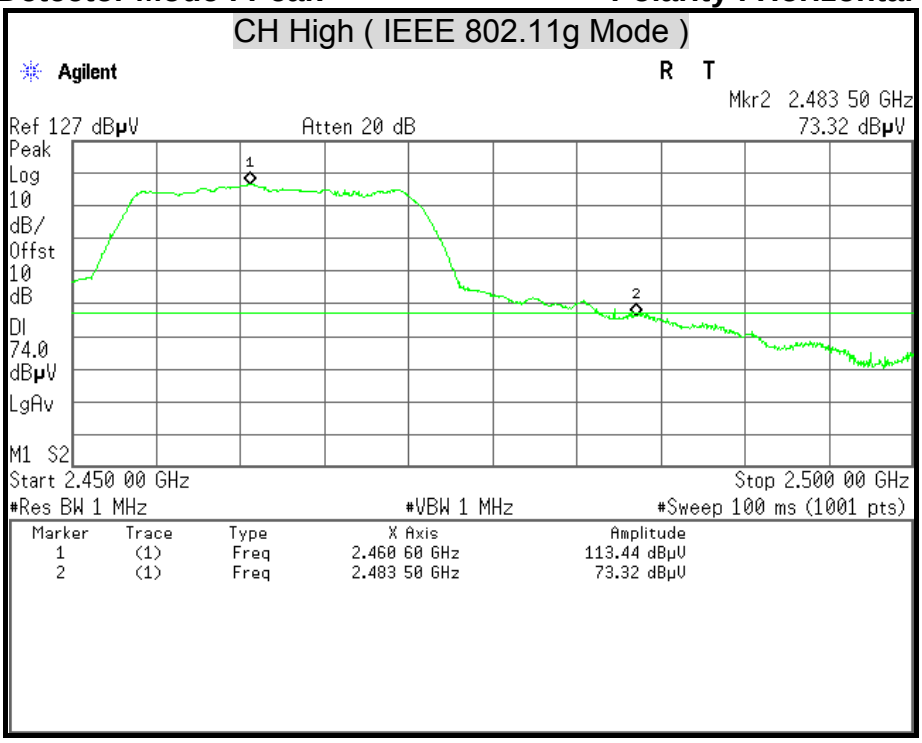
Detector Mode : Peak **Polarity : Vertical**



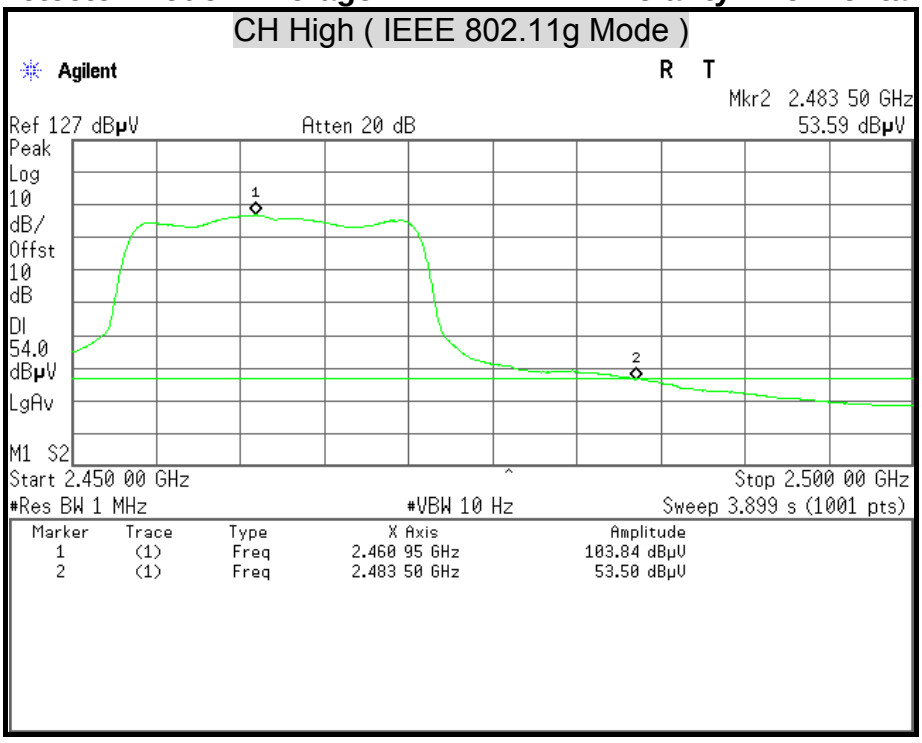
Detector Mode : Average **Polarity : Vertical**



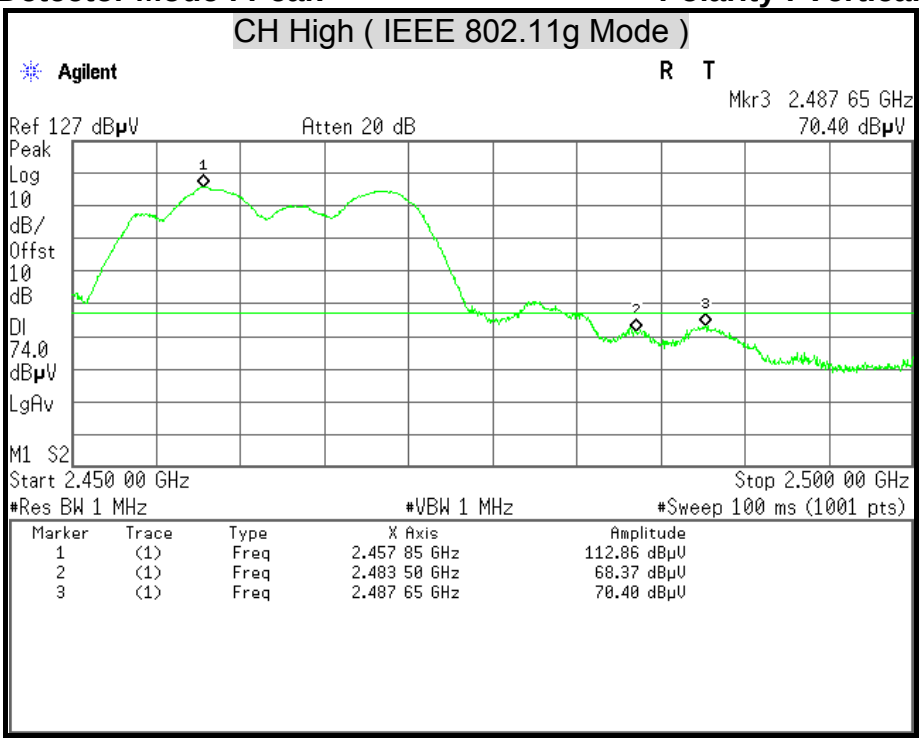
Detector Mode : Peak **Polarity : Horizontal**



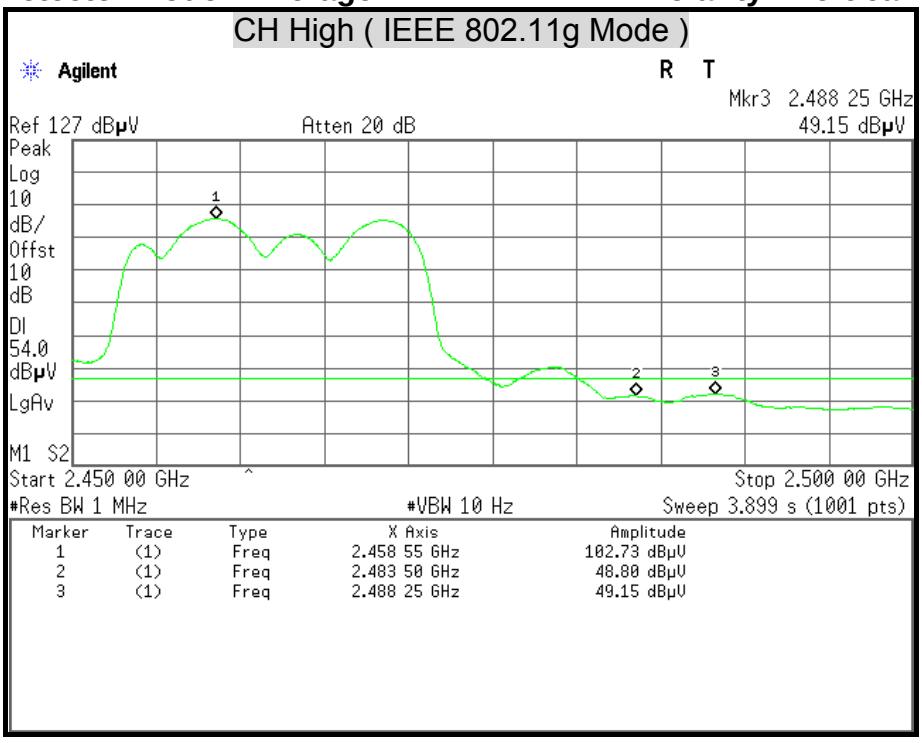
Detector Mode : Average **Polarity : Horizontal**



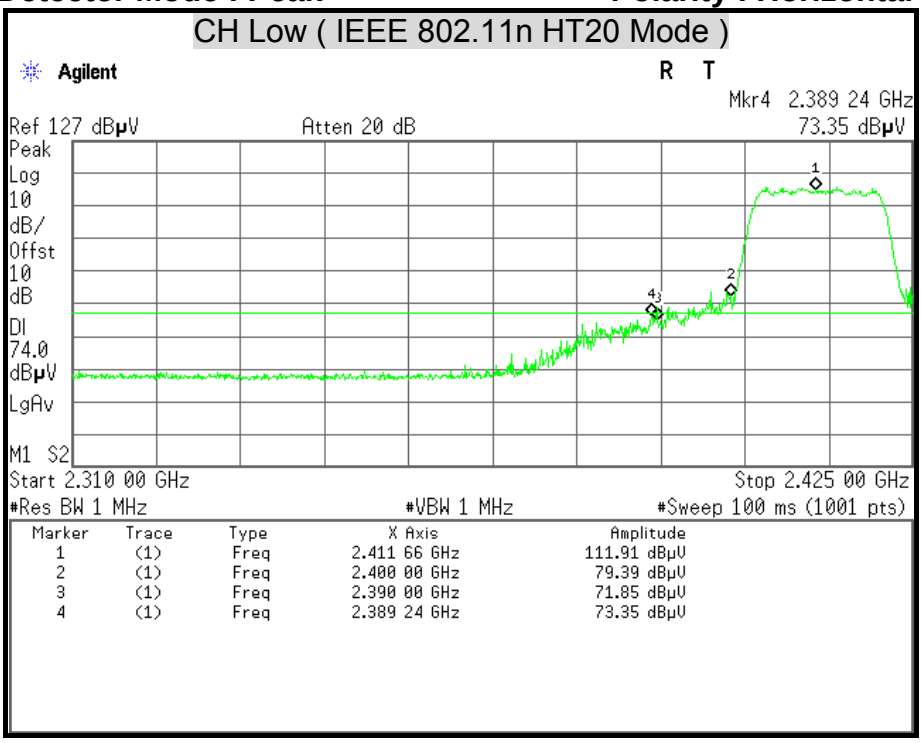
Detector Mode : Peak **Polarity : Vertical**



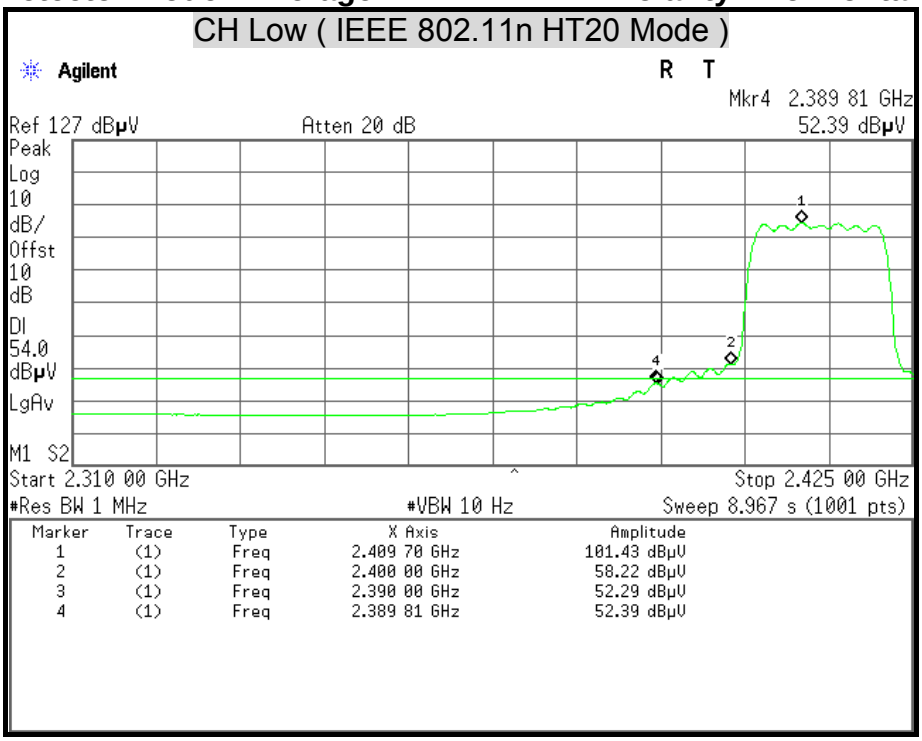
Detector Mode : Average **Polarity : Vertical**



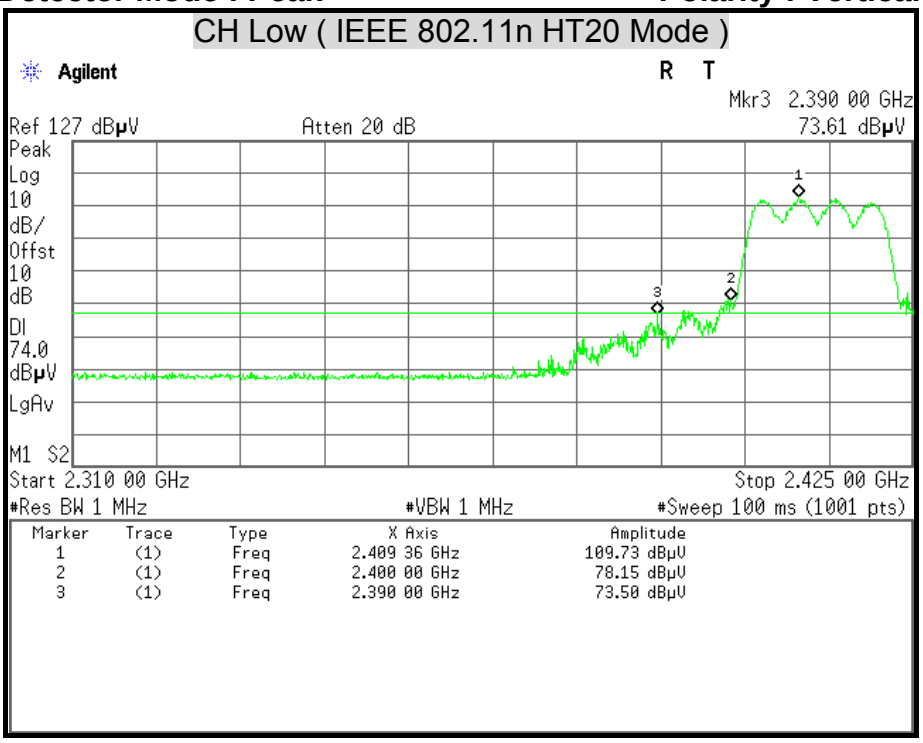
Detector Mode : Peak **Polarity : Horizontal**



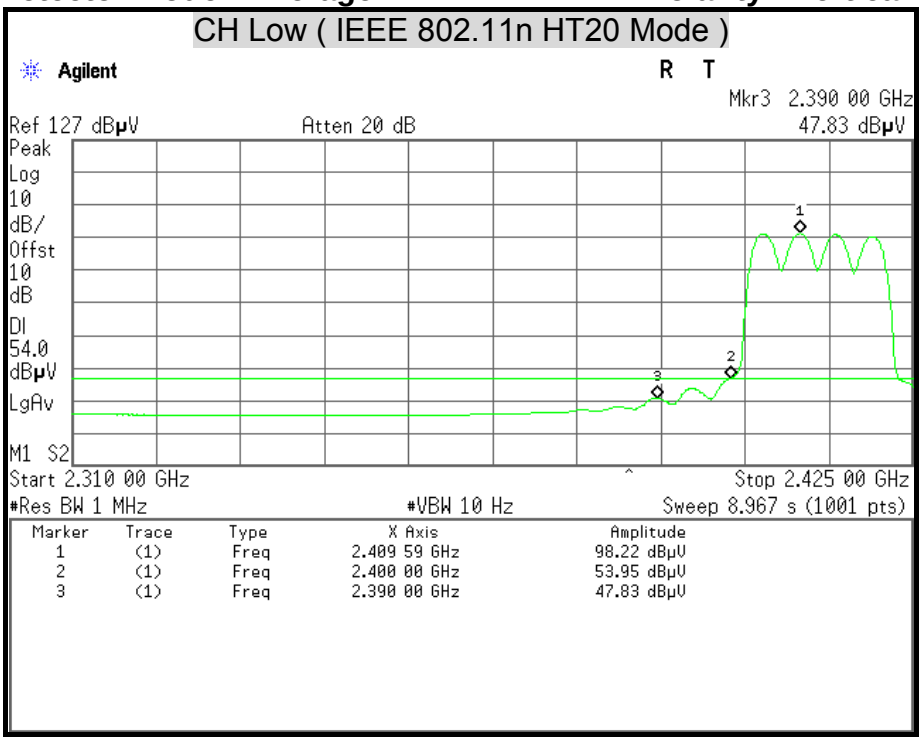
Detector Mode : Average **Polarity : Horizontal**



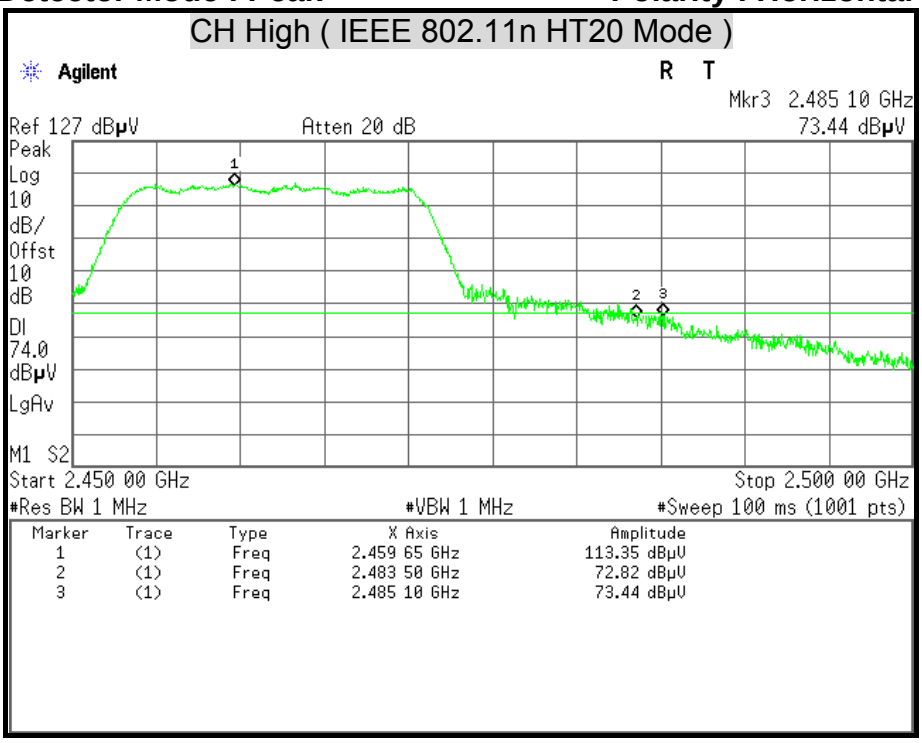
Detector Mode : Peak **Polarity : Vertical**



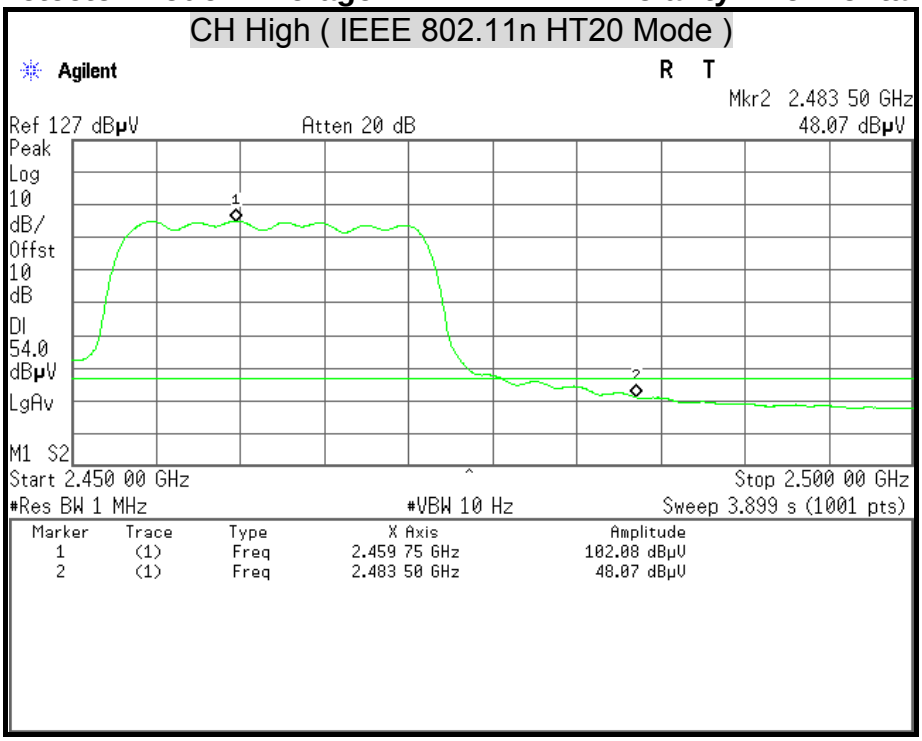
Detector Mode : Average **Polarity : Vertical**



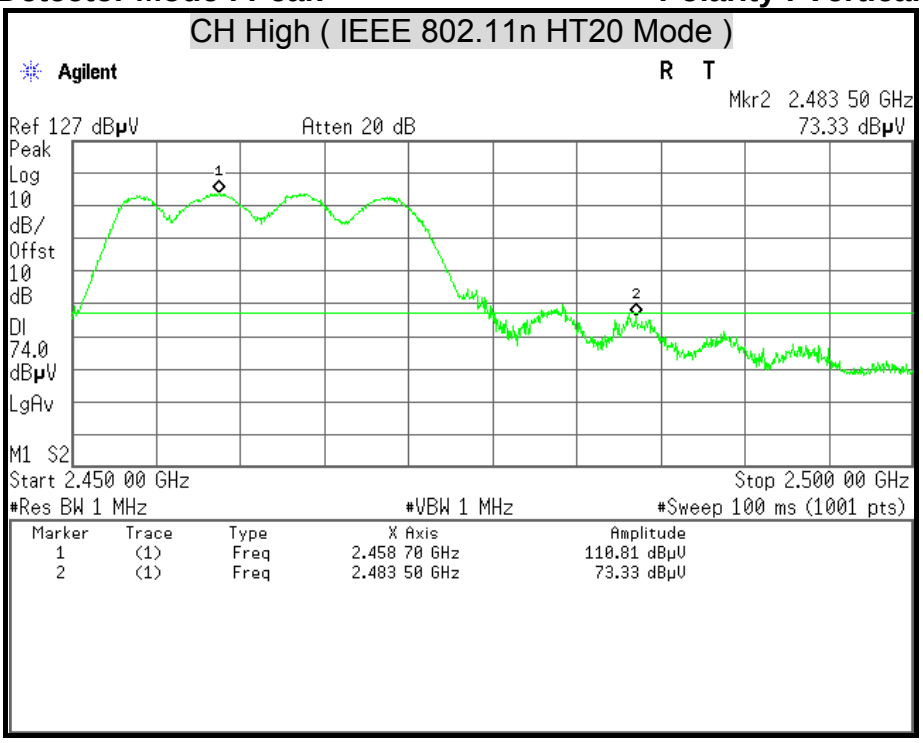
Detector Mode : Peak **Polarity : Horizontal**



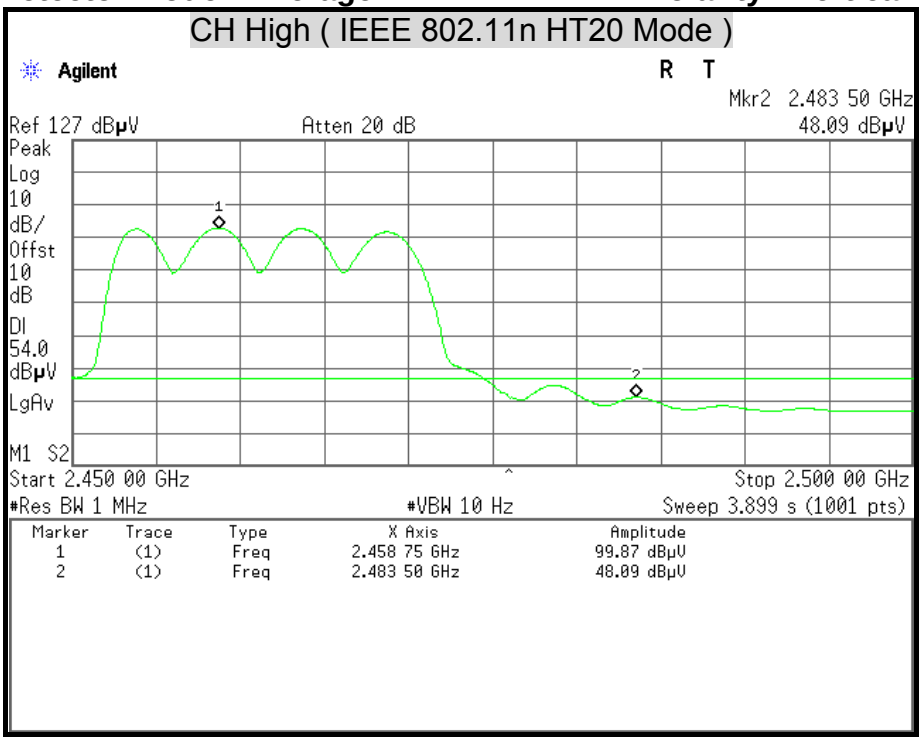
Detector Mode : Average **Polarity : Horizontal**



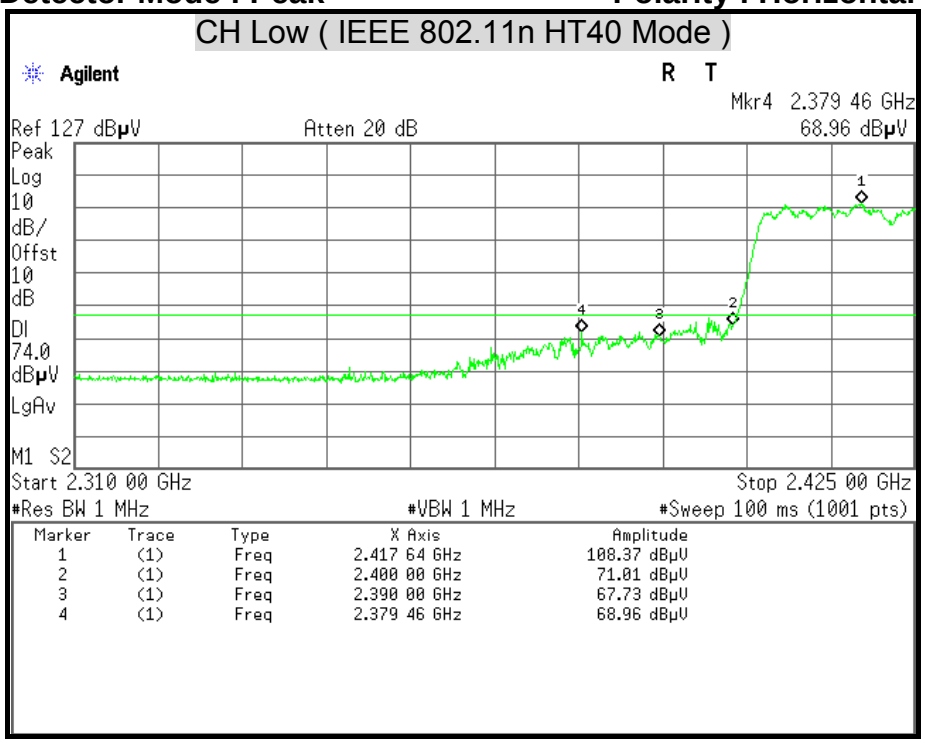
Detector Mode : Peak **Polarity : Vertical**



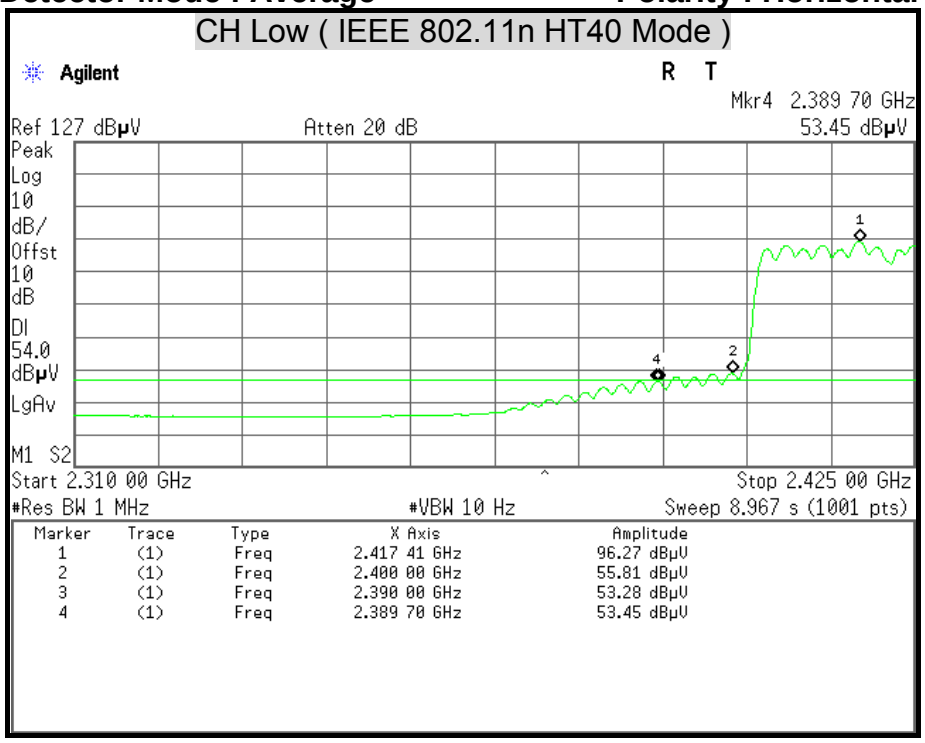
Detector Mode : Average **Polarity : Vertical**



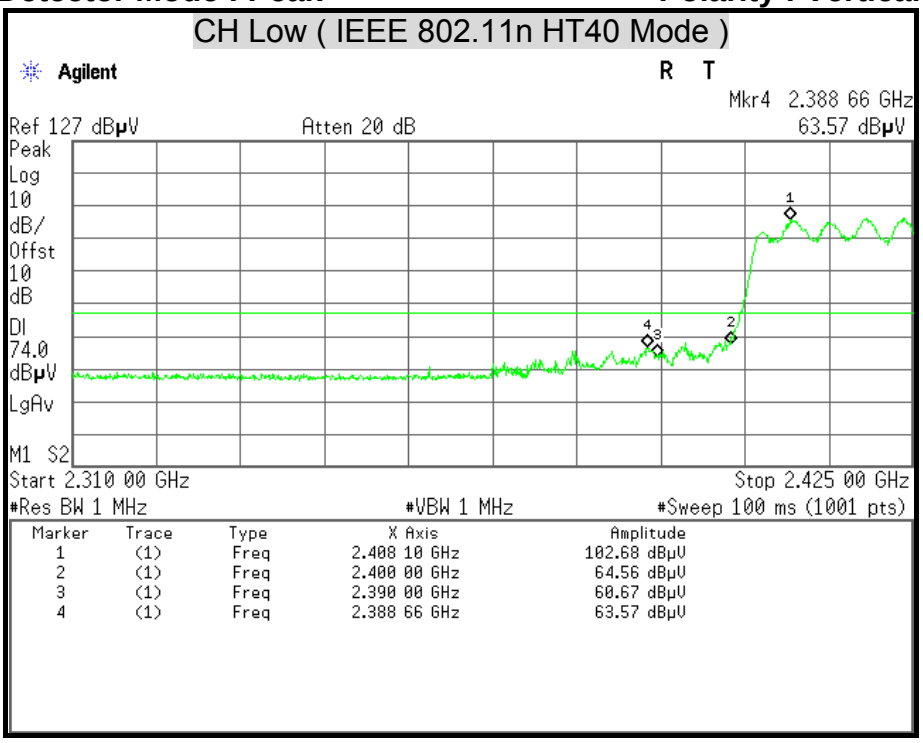
Detector Mode : Peak **Polarity : Horizontal**



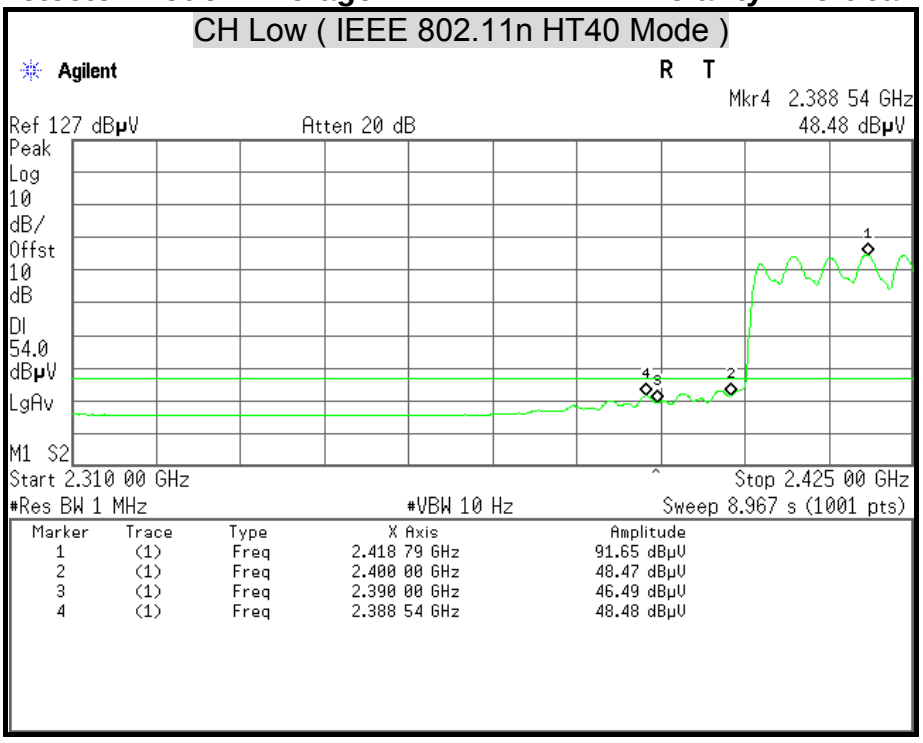
Detector Mode : Average **Polarity : Horizontal**



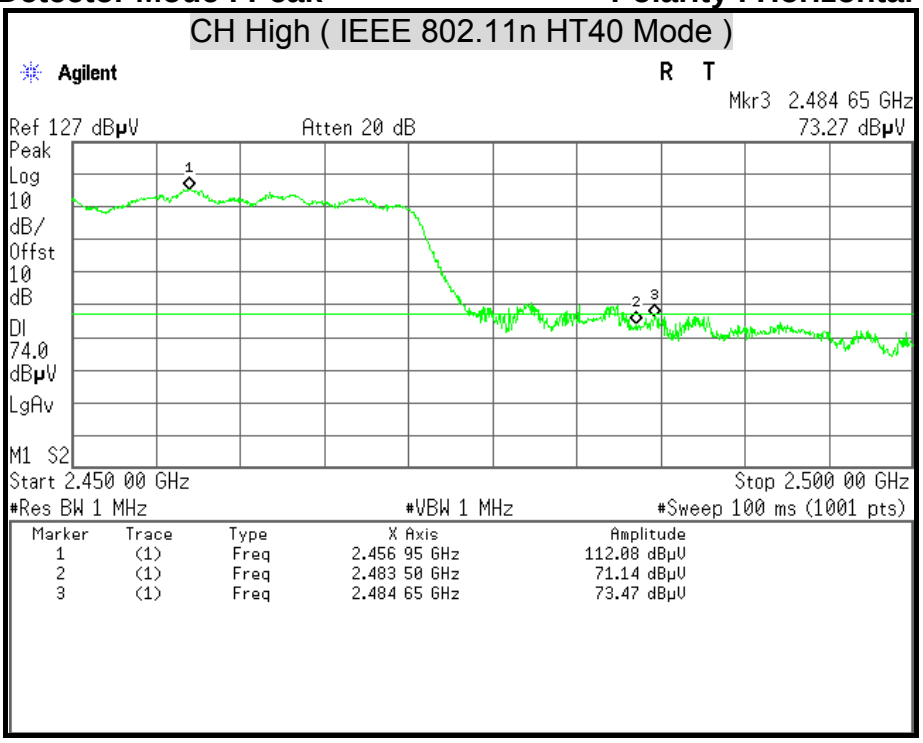
Detector Mode : Peak **Polarity : Vertical**



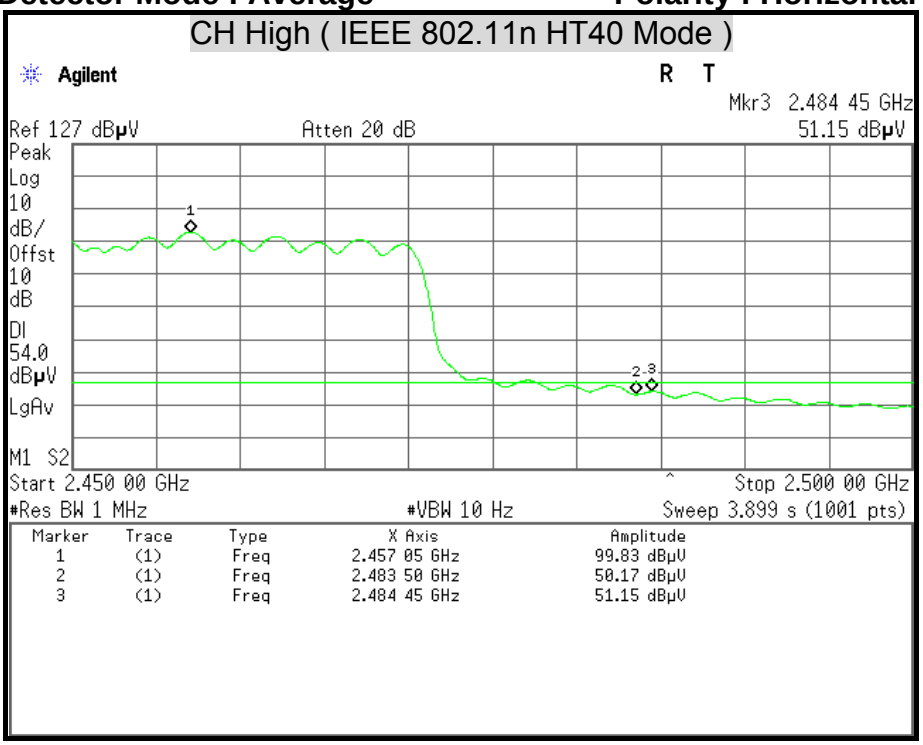
Detector Mode : Average **Polarity : Vertical**



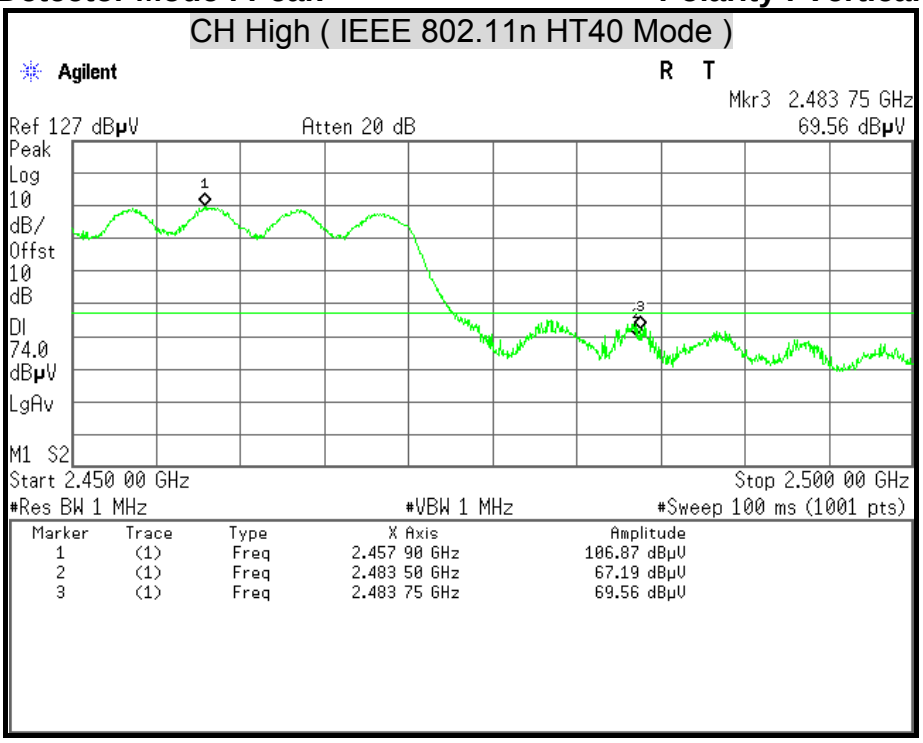
Detector Mode : Peak **Polarity : Horizontal**



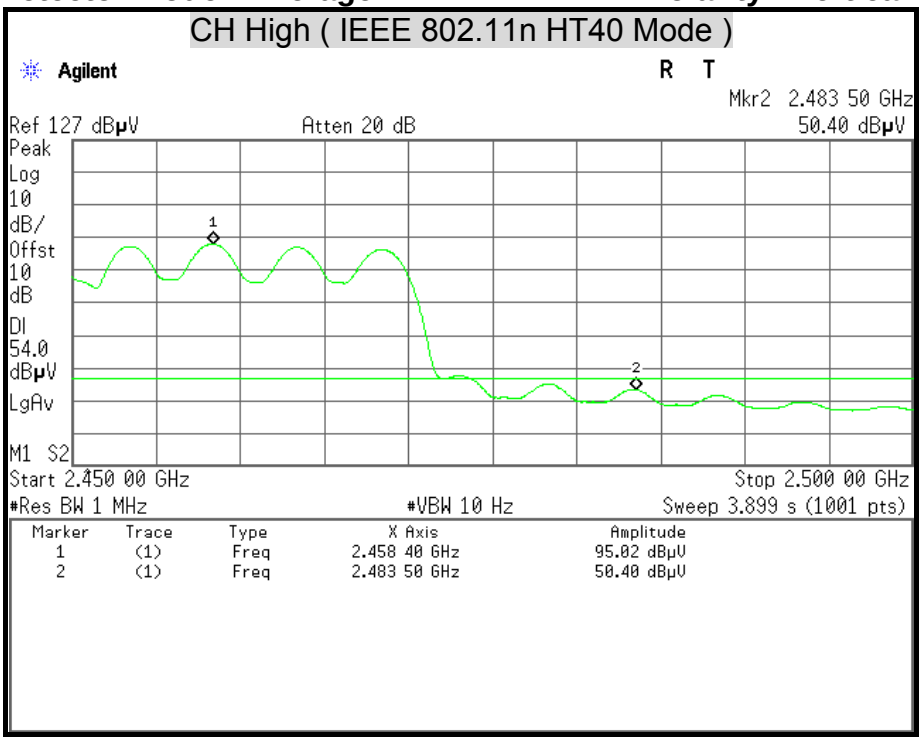
Detector Mode : Average **Polarity : Horizontal**



Detector Mode : Peak **Polarity : Vertical**



Detector Mode : Average **Polarity : Vertical**



7.6 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

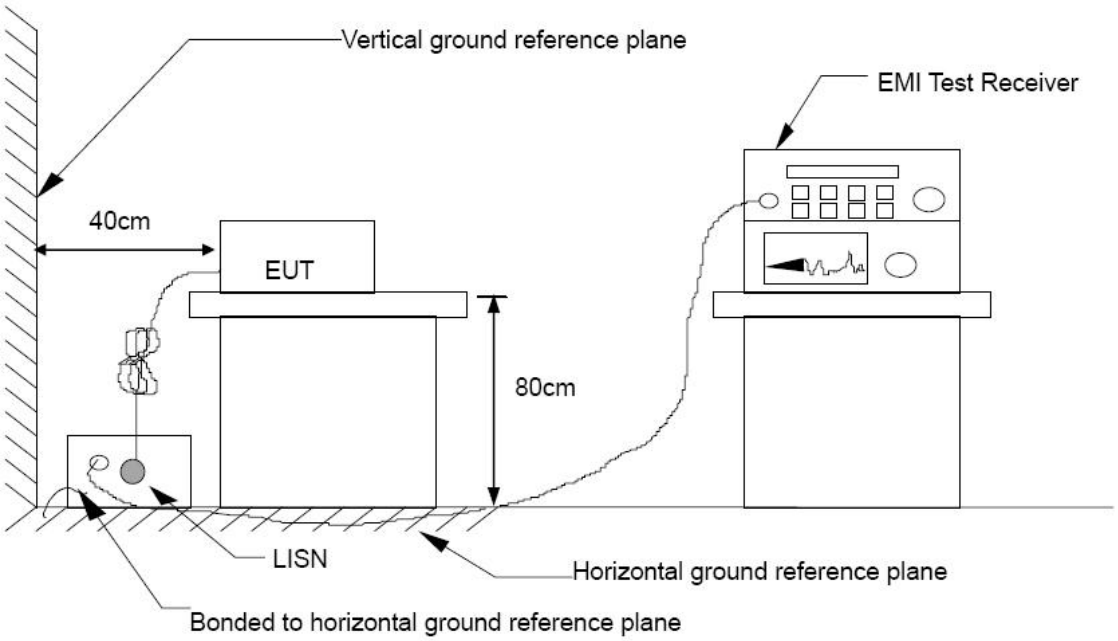
Frequency Range (MHz)	Conducted Limit (dBμv)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

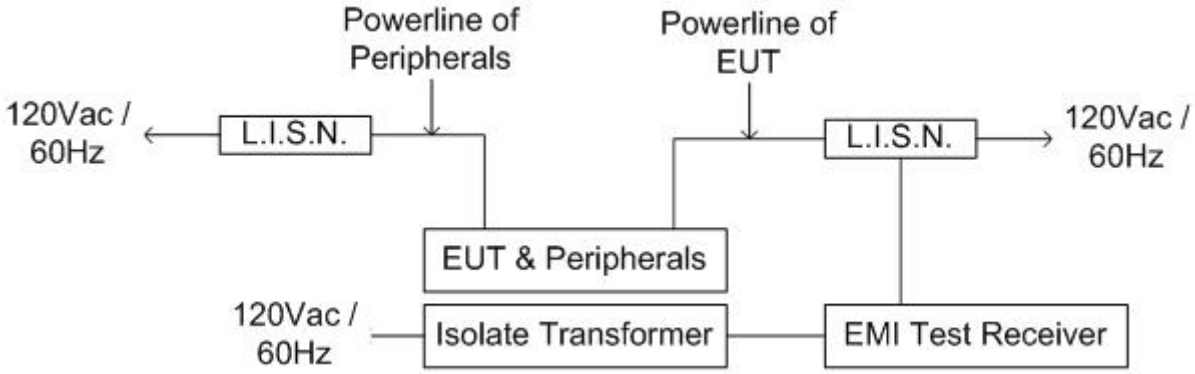
TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-465	08/11/2014
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-473	03/07/2014
EMI Receiver	ROHDE & SCHWARZ	ESCS 30	835418/008	10/16/2014
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	100117	07/01/2014

Remark: *Each piece of equipment is scheduled for calibration once a year.*

TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2009.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

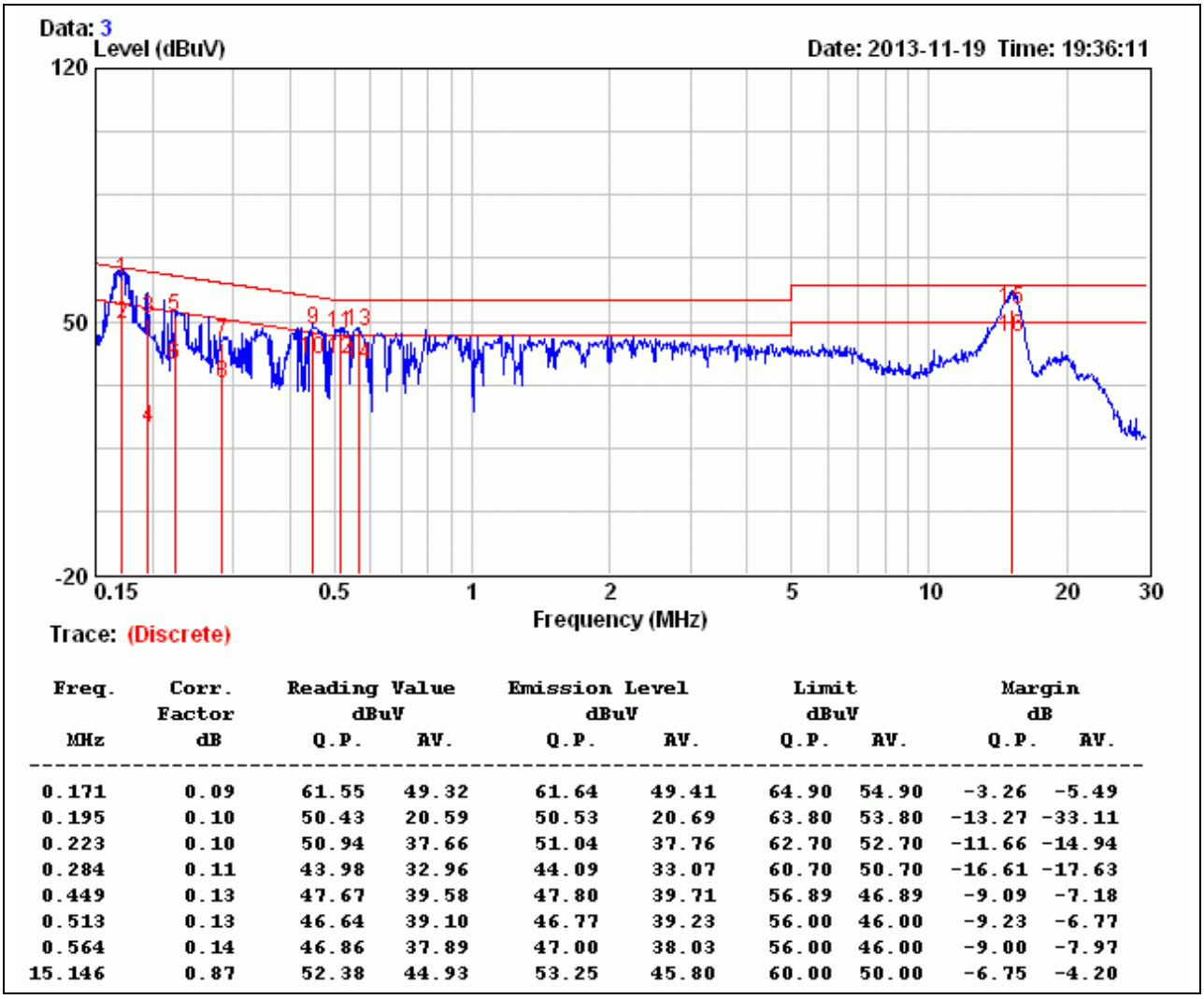
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	Cable modem	Test By	Alan Wu
Test Model	5363	Test Date	2013/11/19
Test Mode	Normal Operating / Adapter 1	Temp. & Humidity	24°C, 60%

LINE



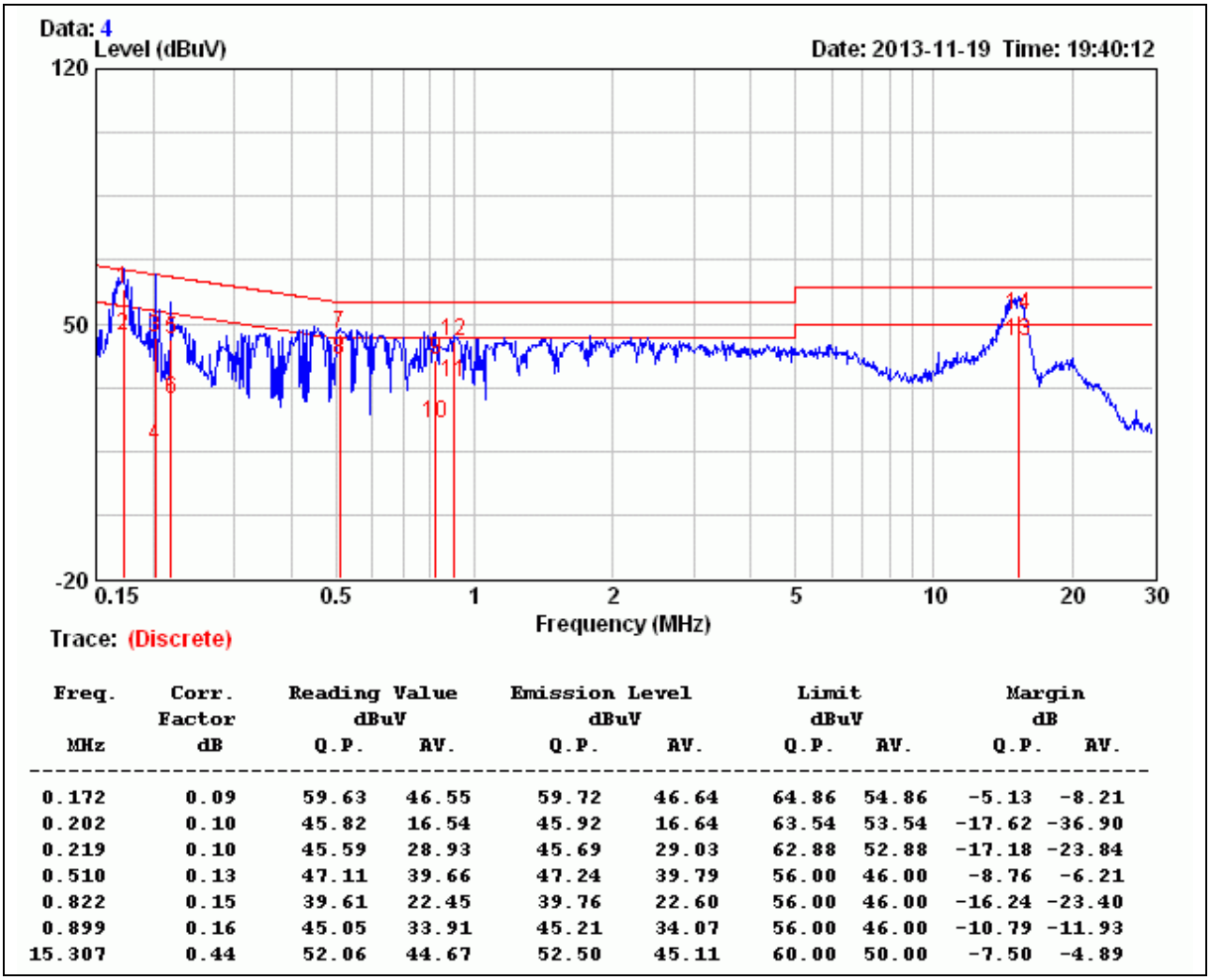
Freq. MHz	Corr. Factor dB	Reading Value dBuV Q.P.	Reading Value dBuV AV.	Emission Level dBuV Q.P.	Emission Level dBuV AV.	Limit dBuV Q.P.	Limit dBuV AV.	Margin dB Q.P.	Margin dB AV.
0.171	0.09	61.55	49.32	61.64	49.41	64.90	54.90	-3.26	-5.49
0.195	0.10	50.43	20.59	50.53	20.69	63.80	53.80	-13.27	-33.11
0.223	0.10	50.94	37.66	51.04	37.76	62.70	52.70	-11.66	-14.94
0.284	0.11	43.98	32.96	44.09	33.07	60.70	50.70	-16.61	-17.63
0.449	0.13	47.67	39.58	47.80	39.71	56.89	46.89	-9.09	-7.18
0.513	0.13	46.64	39.10	46.77	39.23	56.00	46.00	-9.23	-6.77
0.564	0.14	46.86	37.89	47.00	38.03	56.00	46.00	-9.00	-7.97
15.146	0.87	52.38	44.93	53.25	45.80	60.00	50.00	-6.75	-4.20

Remark:

1. *Correction Factor = Insertion loss + Cable loss*
2. *Emission level = Reading Value + Correction factor*
3. *Margin value = Emission level – Limit value*

Product Name	Cable modem	Test By	Alan Wu
Test Model	5363	Test Date	2013/11/19
Test Mode	Normal Operating / Adapter 1	Temp. & Humidity	24°C, 60%

NEUTRAL



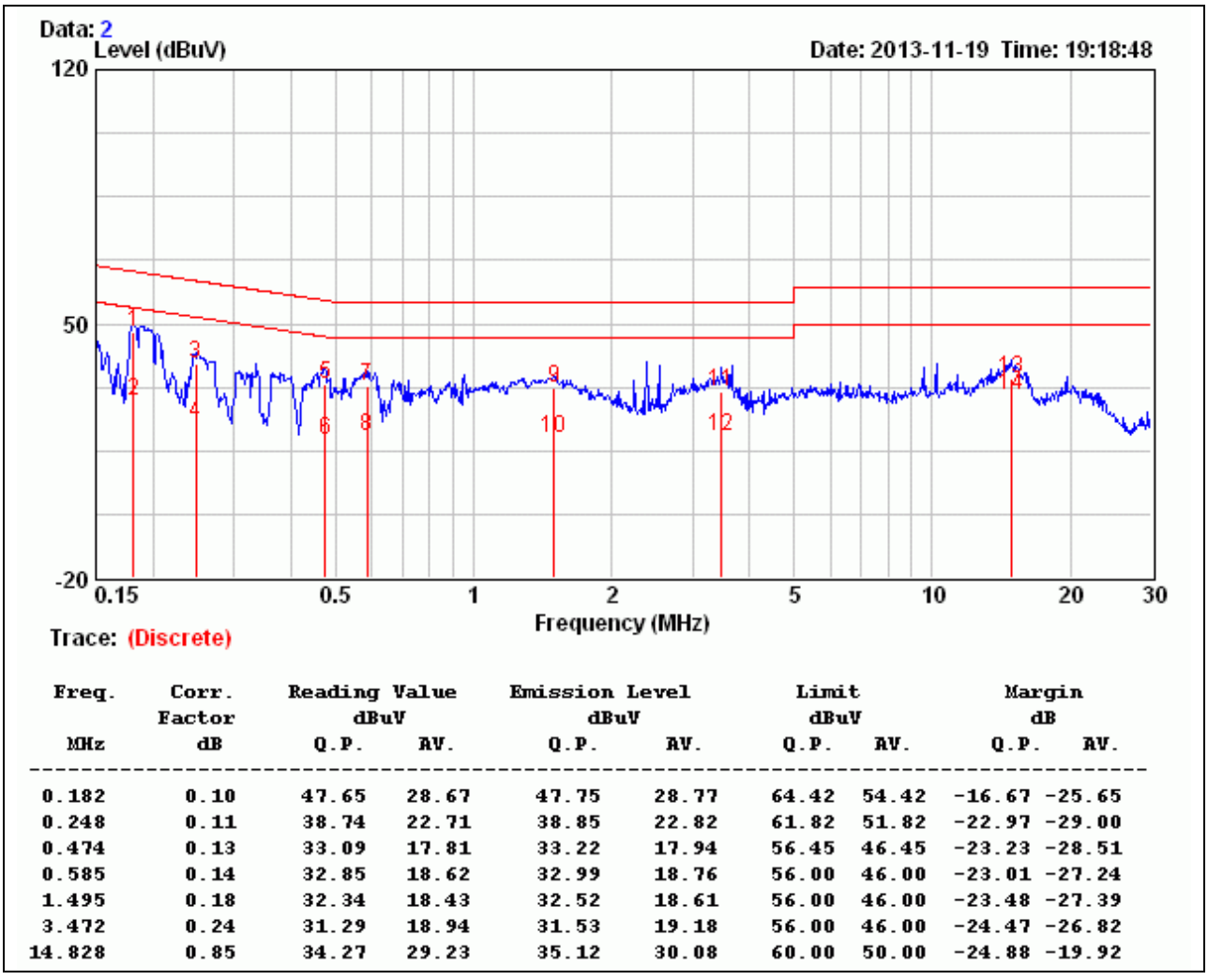
Freq. MHz	Corr. Factor dB	Reading Value dBuV Q.P.	Reading Value dBuV AV.	Emission Level dBuV Q.P.	Emission Level dBuV AV.	Limit dBuV Q.P.	Limit dBuV AV.	Margin dB Q.P.	Margin dB AV.
0.172	0.09	59.63	46.55	59.72	46.64	64.86	54.86	-5.13	-8.21
0.202	0.10	45.82	16.54	45.92	16.64	63.54	53.54	-17.62	-36.90
0.219	0.10	45.59	28.93	45.69	29.03	62.88	52.88	-17.18	-23.84
0.510	0.13	47.11	39.66	47.24	39.79	56.00	46.00	-8.76	-6.21
0.822	0.15	39.61	22.45	39.76	22.60	56.00	46.00	-16.24	-23.40
0.899	0.16	45.05	33.91	45.21	34.07	56.00	46.00	-10.79	-11.93
15.307	0.44	52.06	44.67	52.50	45.11	60.00	50.00	-7.50	-4.89

Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Emission level = Reading Value + Correction factor
3. Margin value = Emission level – Limit value

Product Name	Cable modem	Test By	Alan Wu
Test Model	5363	Test Date	2013/11/19
Test Mode	Normal Operating / Adapter 2	Temp. & Humidity	24°C, 60%

LINE



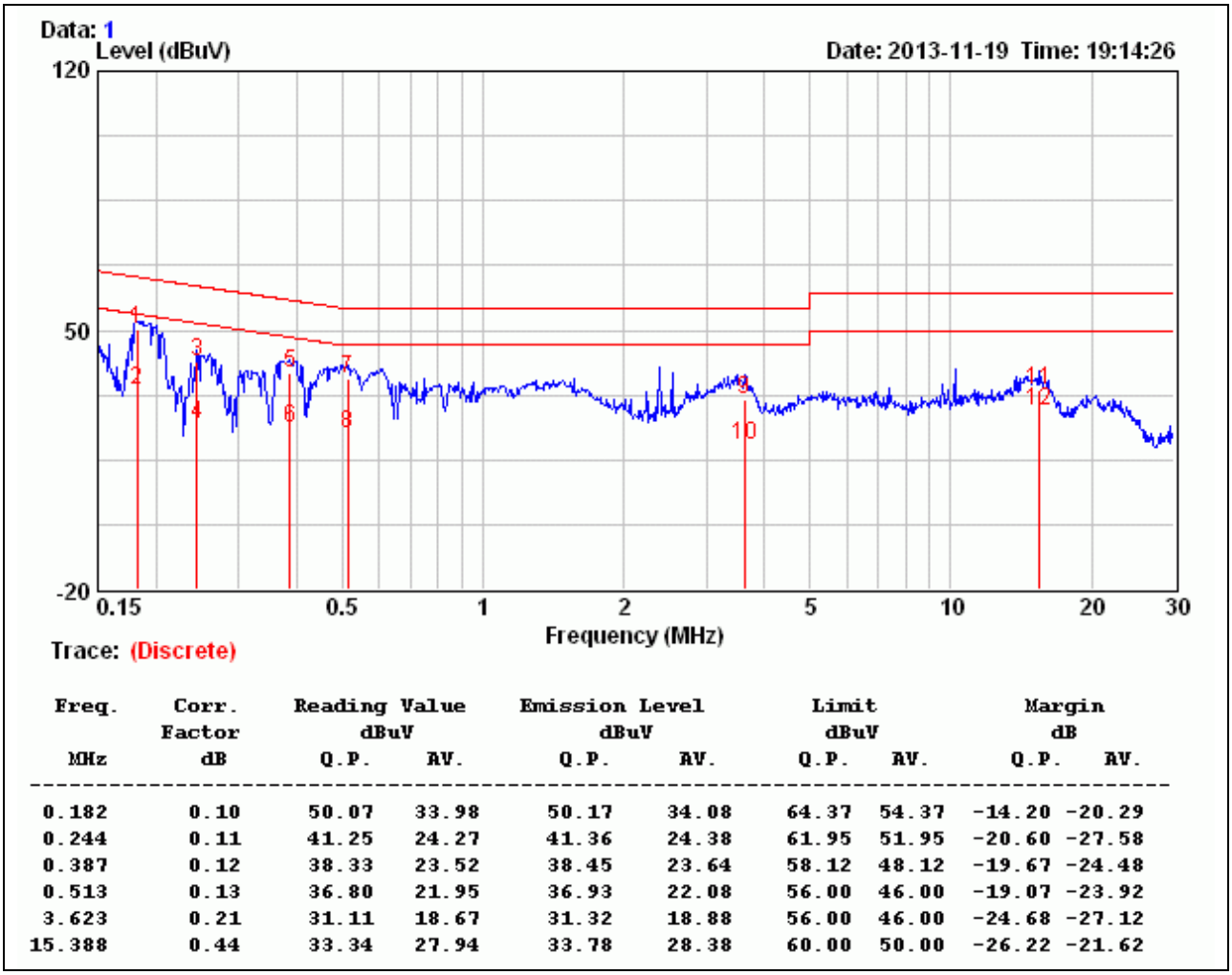
Freq. MHz	Corr. Factor dB	Reading Value dBuV Q.P.	Reading Value dBuV AV.	Emission Level dBuV Q.P.	Emission Level dBuV AV.	Limit dBuV Q.P.	Limit dBuV AV.	Margin dB Q.P.	Margin dB AV.
0.182	0.10	47.65	28.67	47.75	28.77	64.42	54.42	-16.67	-25.65
0.248	0.11	38.74	22.71	38.85	22.82	61.82	51.82	-22.97	-29.00
0.474	0.13	33.09	17.81	33.22	17.94	56.45	46.45	-23.23	-28.51
0.585	0.14	32.85	18.62	32.99	18.76	56.00	46.00	-23.01	-27.24
1.495	0.18	32.34	18.43	32.52	18.61	56.00	46.00	-23.48	-27.39
3.472	0.24	31.29	18.94	31.53	19.18	56.00	46.00	-24.47	-26.82
14.828	0.85	34.27	29.23	35.12	30.08	60.00	50.00	-24.88	-19.92

Remark:

1. *Correction Factor = Insertion loss + Cable loss*
2. *Emission level = Reading Value + Correction factor*
3. *Margin value = Emission level – Limit value*

Product Name	Cable modem	Test By	Alan Wu
Test Model	5363	Test Date	2013/11/19
Test Mode	Normal Operating / Adapter 2	Temp. & Humidity	24°C, 60%

NEUTRAL



Freq. MHz	Corr. Factor dB	Reading Value dBuV Q.P.	Reading Value dBuV AV.	Emission Level dBuV Q.P.	Emission Level dBuV AV.	Limit dBuV Q.P.	Limit dBuV AV.	Margin dB Q.P.	Margin dB AV.
0.182	0.10	50.07	33.98	50.17	34.08	64.37	54.37	-14.20	-20.29
0.244	0.11	41.25	24.27	41.36	24.38	61.95	51.95	-20.60	-27.58
0.387	0.12	38.33	23.52	38.45	23.64	58.12	48.12	-19.67	-24.48
0.513	0.13	36.80	21.95	36.93	22.08	56.00	46.00	-19.07	-23.92
3.623	0.21	31.11	18.67	31.32	18.88	56.00	46.00	-24.68	-27.12
15.388	0.44	33.34	27.94	33.78	28.38	60.00	50.00	-26.22	-21.62

Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Emission level = Reading Value + Correction factor
3. Margin value = Emission level – Limit value