

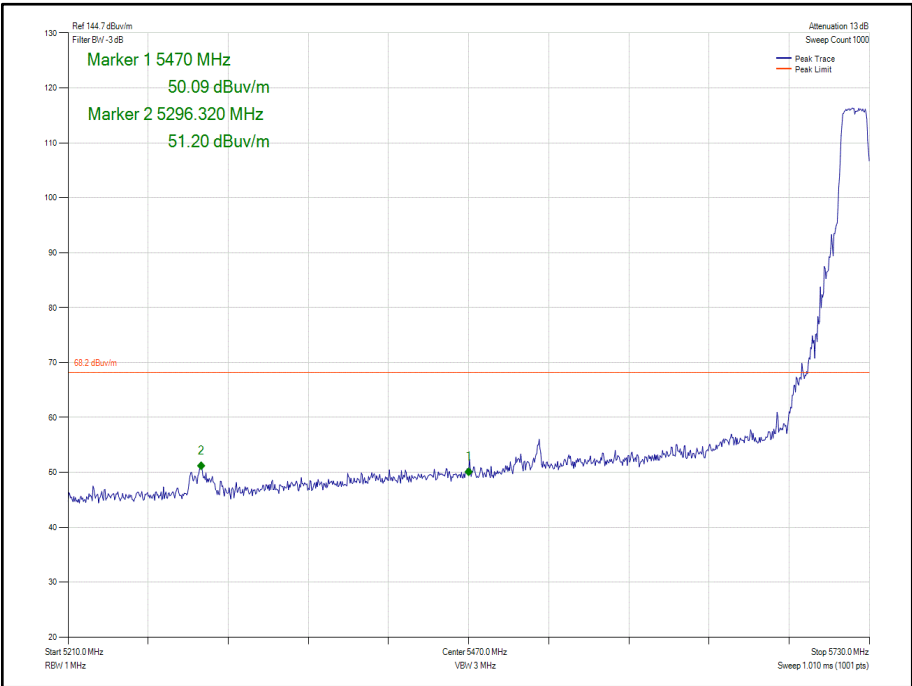


Figure 828 - 802.11a Core 0 - 5720 MHz
Measured Frequency 5296.32 MHz

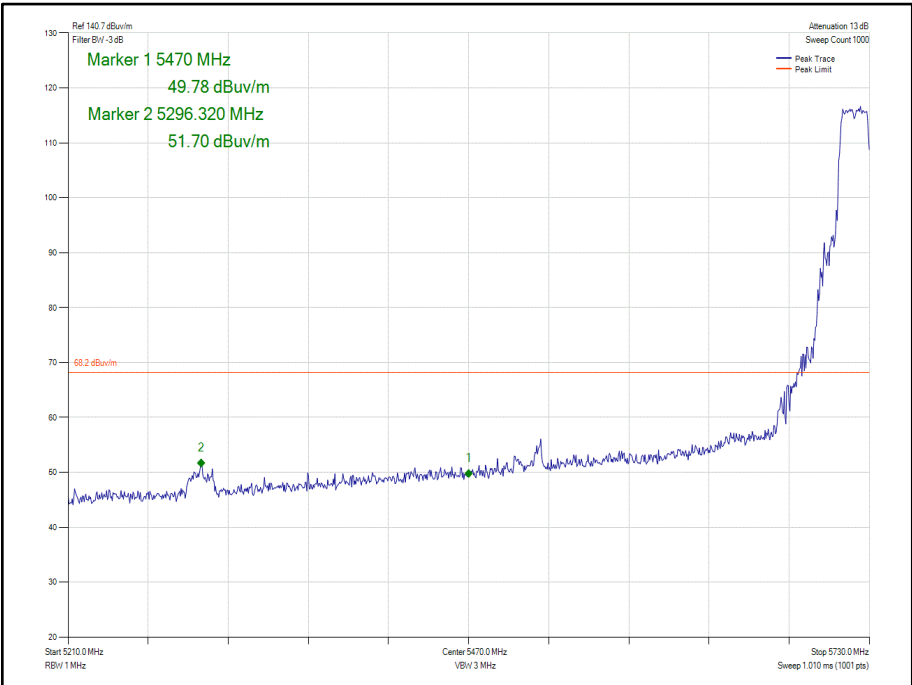


Figure 829 - 802.11n HT20 Core 0 - 5720 MHz
Measured Frequency 5296.32 MHz

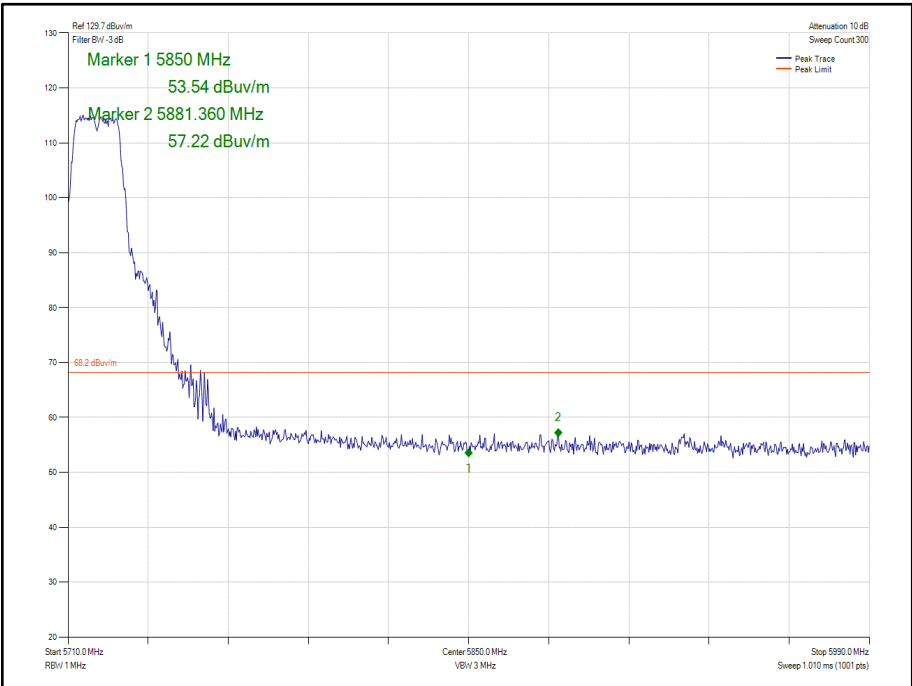


Figure 830 - 802.11a Core 0 - 5720 MHz
Measured Frequency 5881.36 MHz

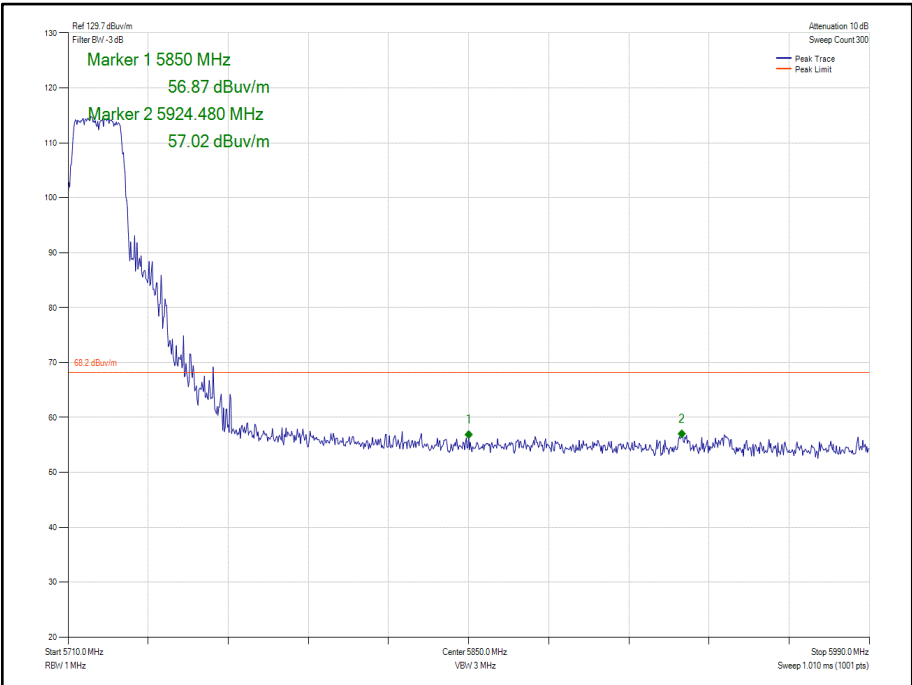


Figure 831 - 802.11n HT20 Core 0 - 5720 MHz
Measured Frequency 5924.48 MHz

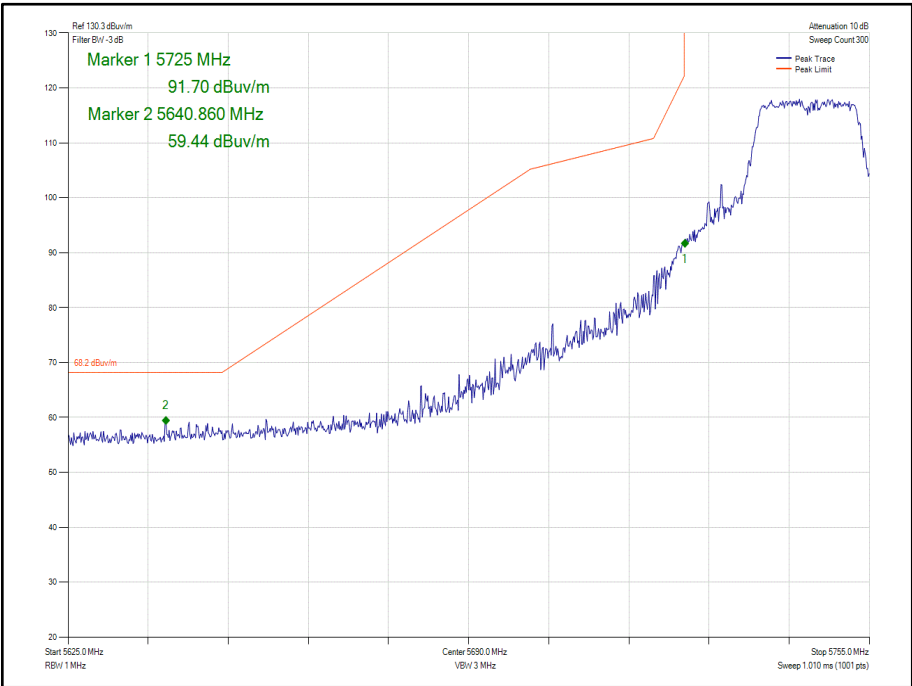


Figure 832 - 802.11a Core 0 - 5745 MHz
Measured Frequency 5640.86 MHz

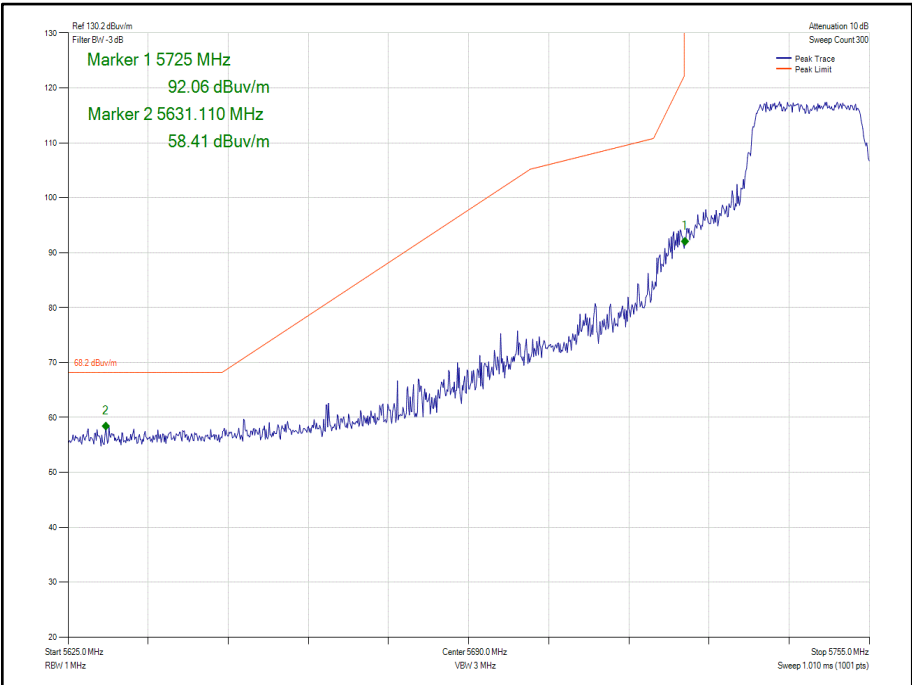


Figure 833 - 802.11n HT20 Core 0 - 5745 MHz
Measured Frequency 5631.11 MHz

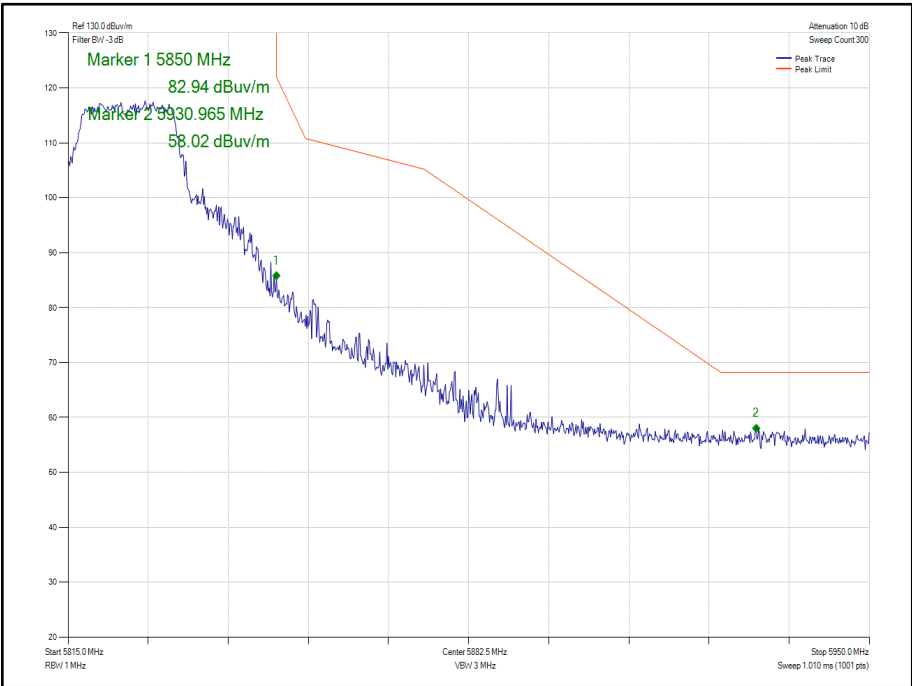


Figure 834 - 802.11a Core 0 - 5825 MHz
Measured Frequency 5930.965 MHz

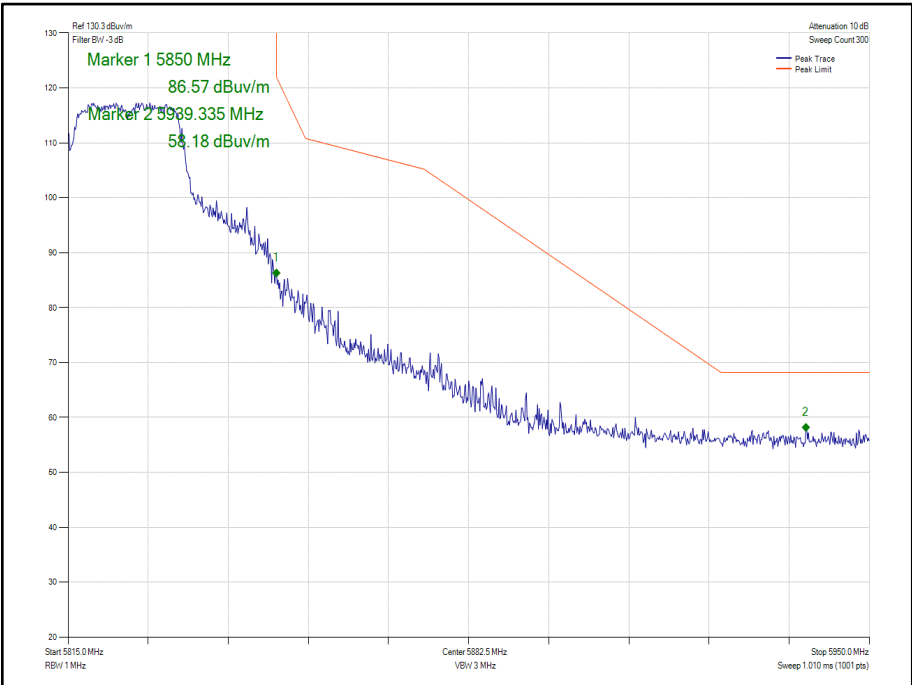


Figure 835 - 802.11n HT20 Core 0 - 5825 MHz
Measured Frequency 5939.335 MHz



Main - 20 MHz Bandwidth (2TX)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n HT20 CDD Cores 0-1	MCS0	5500	5469.920	59.38
802.11n HT20 SDM Cores 0-1	MCS0	5500	5469.920	60.18
802.11ac VHT20 TxBF Cores 0-1	MCS0	5500	5458.320	56.98
802.11n HT20 CDD Cores 0-1	MCS0	5700	5732.280	58.95
802.11n HT20 SDM Cores 0-1	MCS0	5700	5726.330	59.27
802.11ac VHT20 TxBF Cores 0-1	MCS0	5700	5725.210	61.41
802.11n HT20 CDD Cores 0-1	MCS0	5720	5296.320	53.25
802.11n HT20 SDM Cores 0-1	MCS0	5720	5296.320	54.44
802.11ac VHT20 TxBF Cores 0-1	MCS0	5720	5399.800	48.93
802.11n HT20 CDD Cores 0-1	MCS0	5720	5939.320	57.19
802.11n HT20 SDM Cores 0-1	MCS0	5720	5924.760	57.38
802.11ac VHT20 TxBF Cores 0-1	MCS0	5720	5856.440	57.39
802.11n HT20 CDD Cores 0-1	MCS0	5745	5629.160	58.12
802.11n HT20 SDM Cores 0-1	MCS0	5745	5639.170	58.23
802.11ac VHT20 TxBF Cores 0-1	MCS0	5745	5645.540	59.72
802.11n HT20 CDD Cores 0-1	MCS0	5825	5931.100	59.72
802.11n HT20 SDM Cores 0-1	MCS0	5825	5932.045	58.29
802.11ac VHT20 TxBF Cores 0-1	MCS0	5825	5943.385	59.89

Table 436

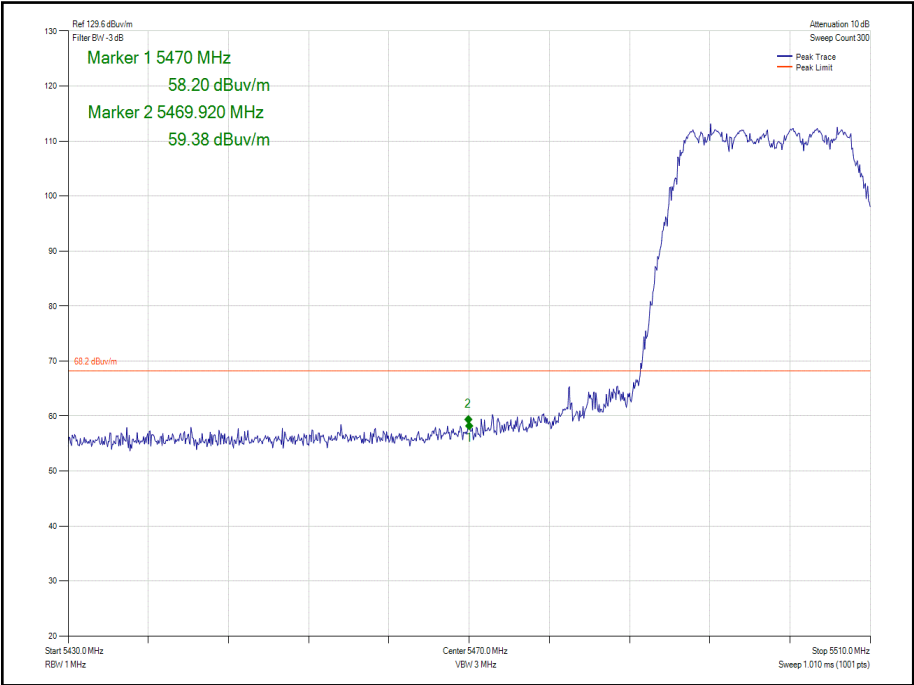


Figure 836 - 802.11n HT20 CDD Cores 0-1 - 5500 MHz
Measured Frequency 5469.92 MHz

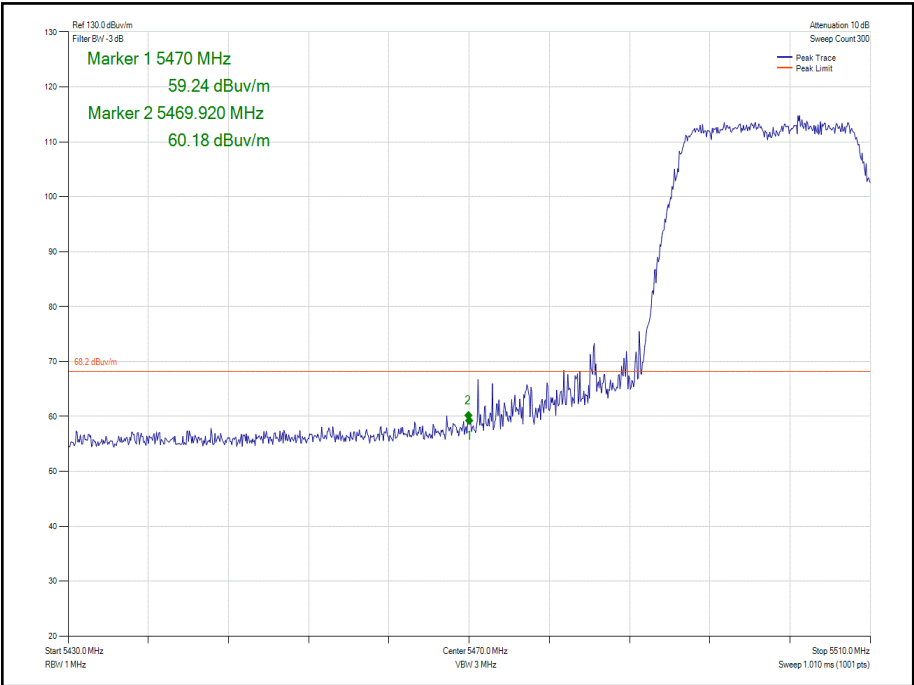


Figure 837 - 802.11n HT20 SDM Cores 0-1 - 5500 MHz
Measured Frequency 5469.920 MHz

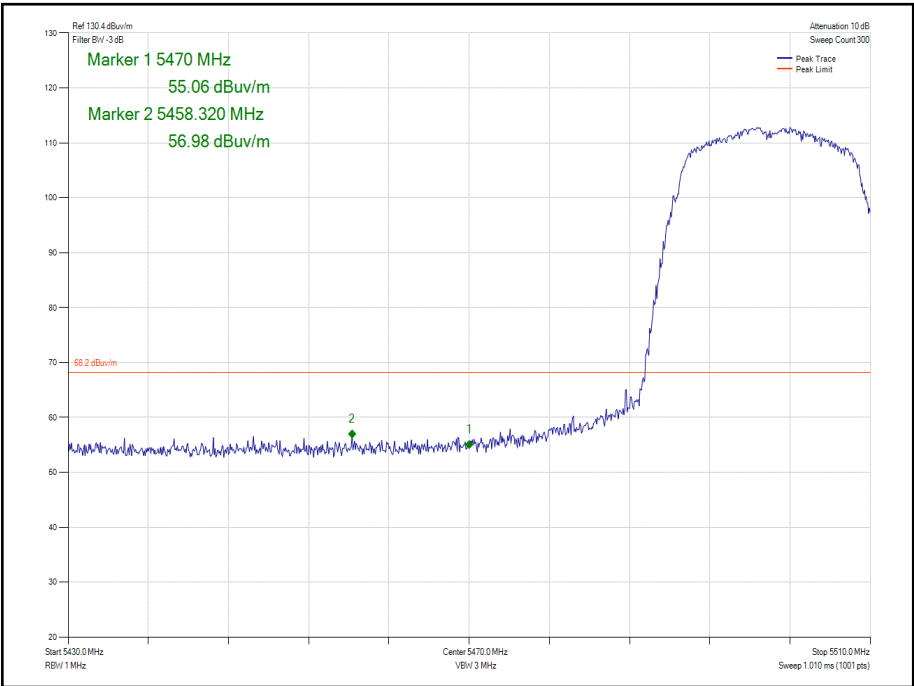


Figure 838 - 802.11ac VHT20 TxBF Cores 0-1 - 5500 MHz
Measured Frequency 5458.32 MHz

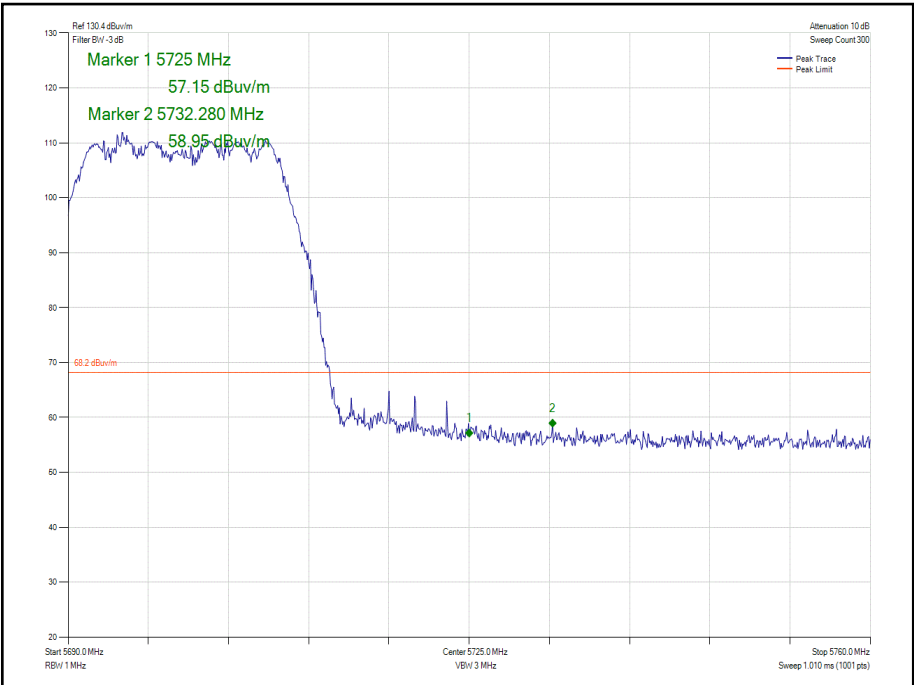


Figure 839 - 802.11n HT20 CDD Cores 0-1 - 5700 MHz
Measured Frequency 5732.28 MHz

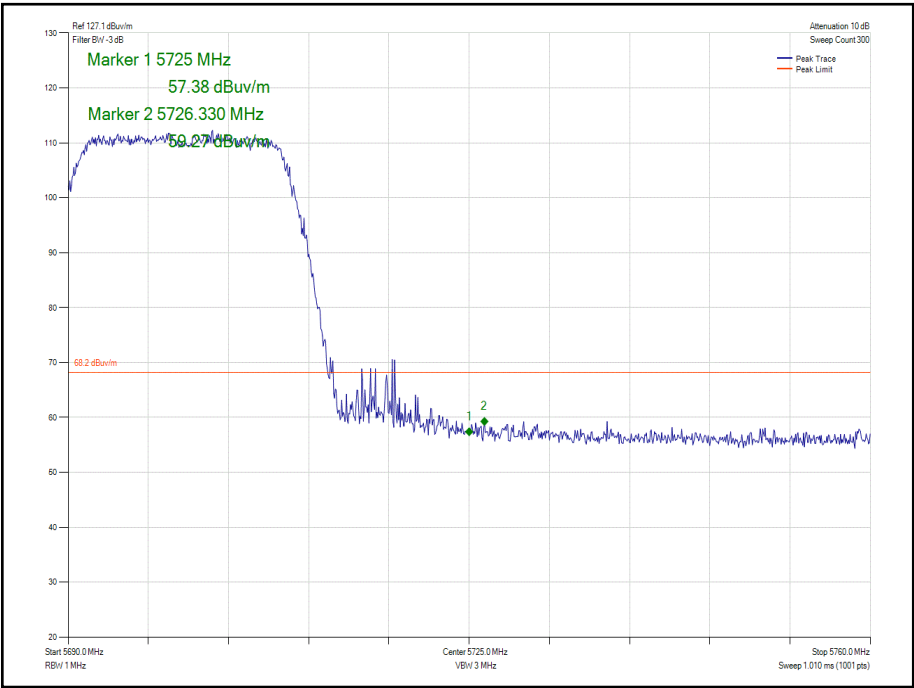


Figure 840 - 802.11n HT20 SDM Cores 0-1 - 5700 MHz
Measured Frequency 5726.33 MHz

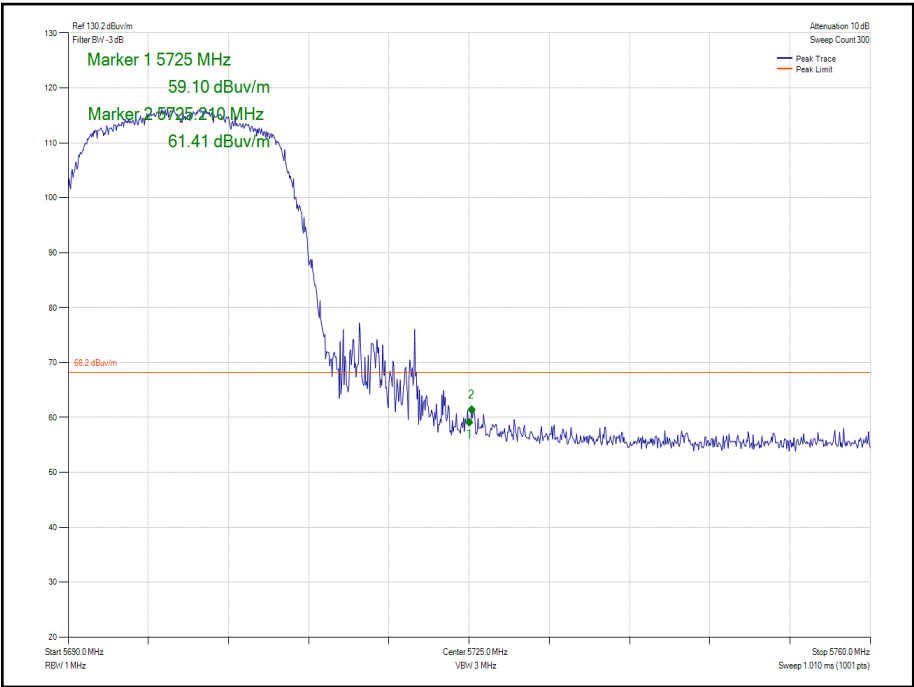


Figure 841 - 802.11ac VHT20 TxBF Cores 0-1 - 5700 MHz
Measured Frequency 5725.21 MHz

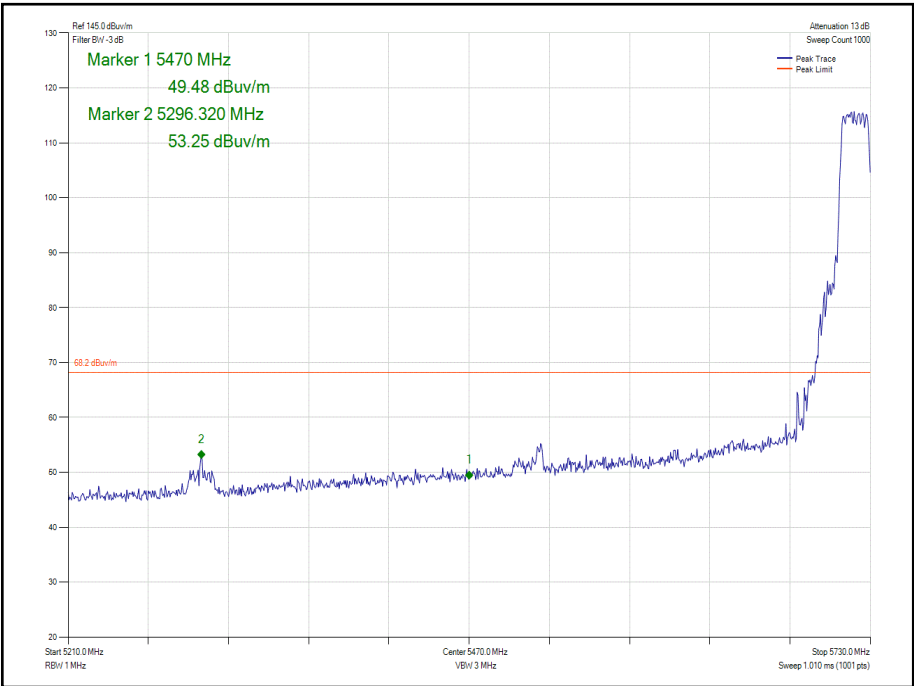


Figure 842 - 802.11n HT20 CDD Cores 0-1 - 5720 MHz
Measured Frequency 5296.32 MHz

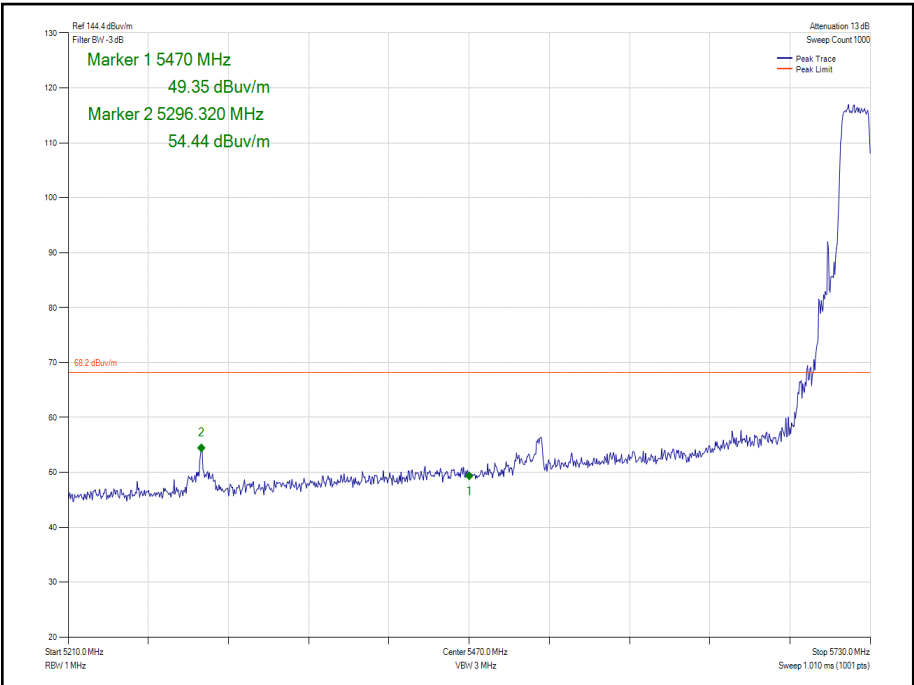


Figure 843 - 802.11n HT20 SDM Cores 0-1 - 5720 MHz
Measured Frequency 5296.32 MHz

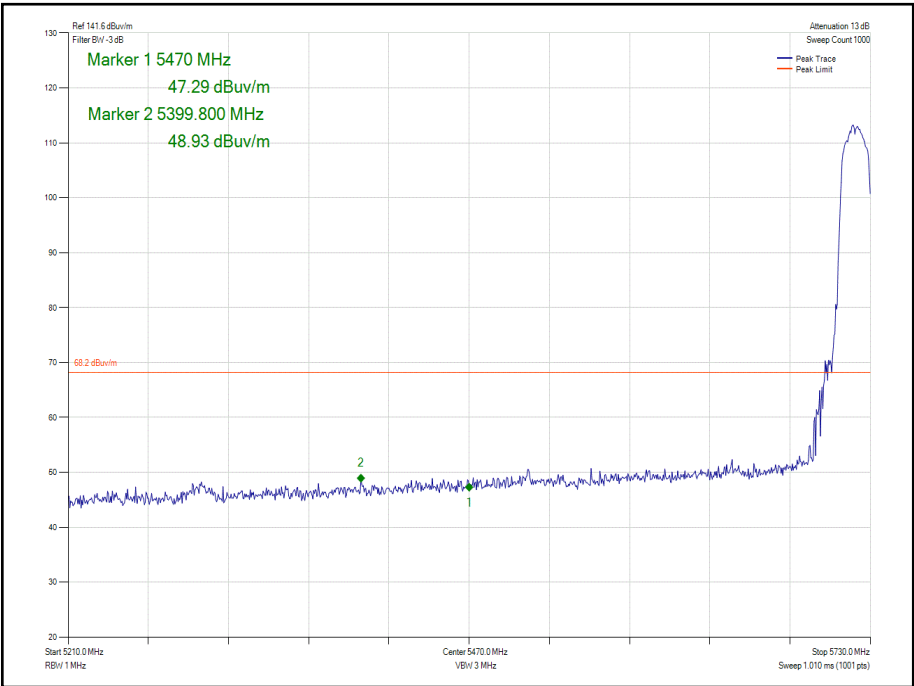


Figure 844 - 802.11ac VHT20 TxBF Cores 0-1 - 5720 MHz
Measured Frequency 5399.8 MHz

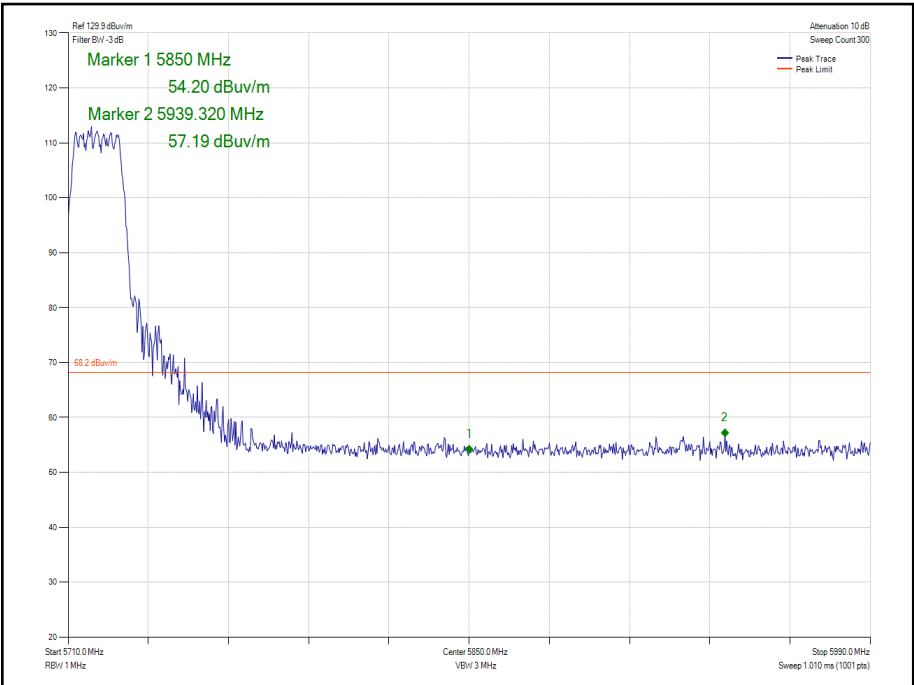


Figure 845 - 802.11n HT20 CDD Cores 0-1 - 5720 MHz
Measured Frequency 5939.32 MHz

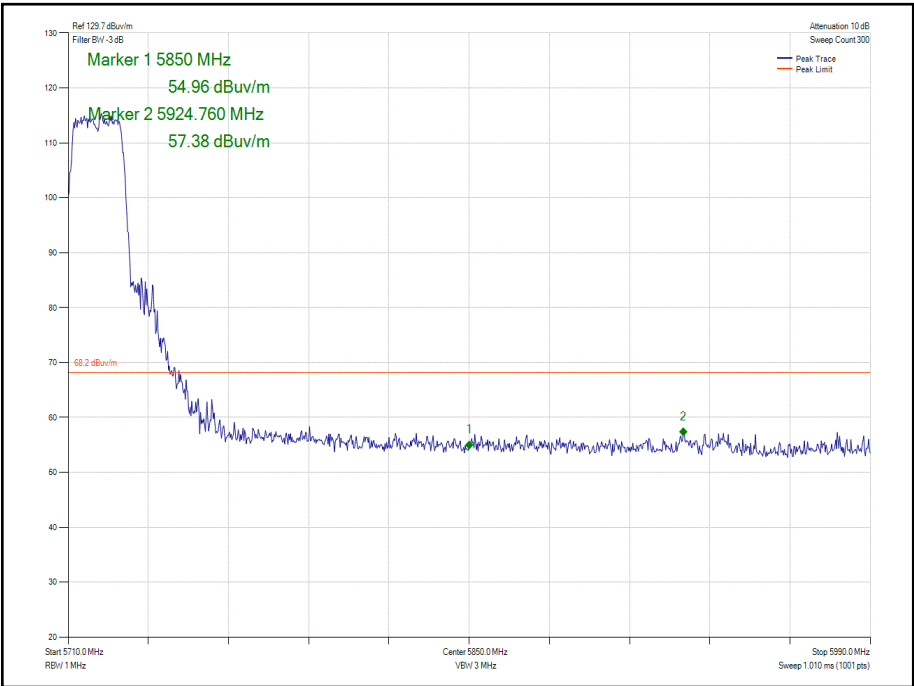


Figure 846 - 802.11n HT20 SDM Cores 0-1 - 5720 MHz
Measured Frequency 5924.76 MHz

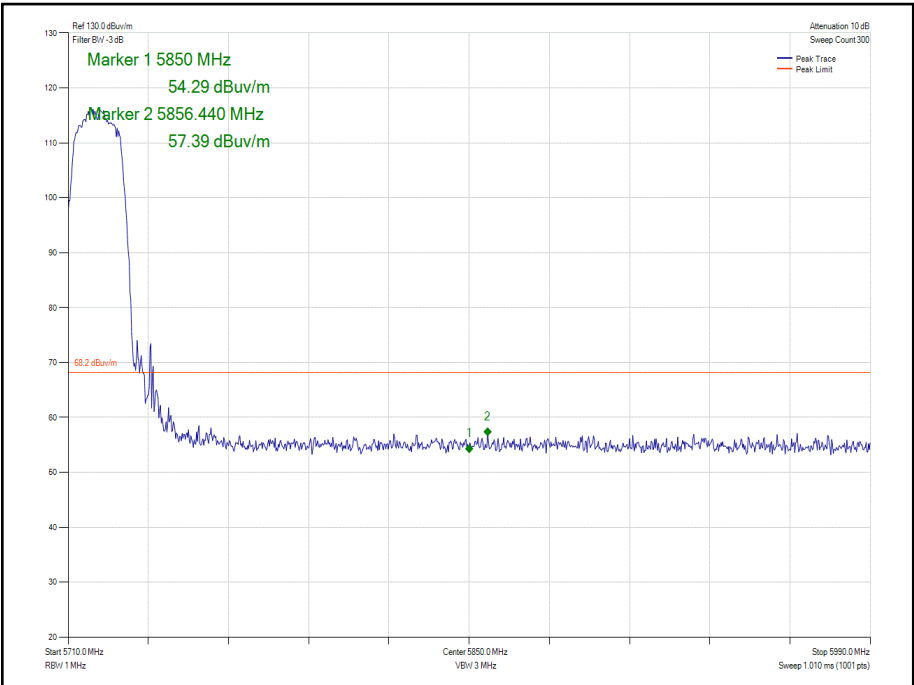


Figure 847 - 802.11ac VHT20 TxBF Cores 0-1 - 5720 MHz
Measured Frequency 5856.44 MHz

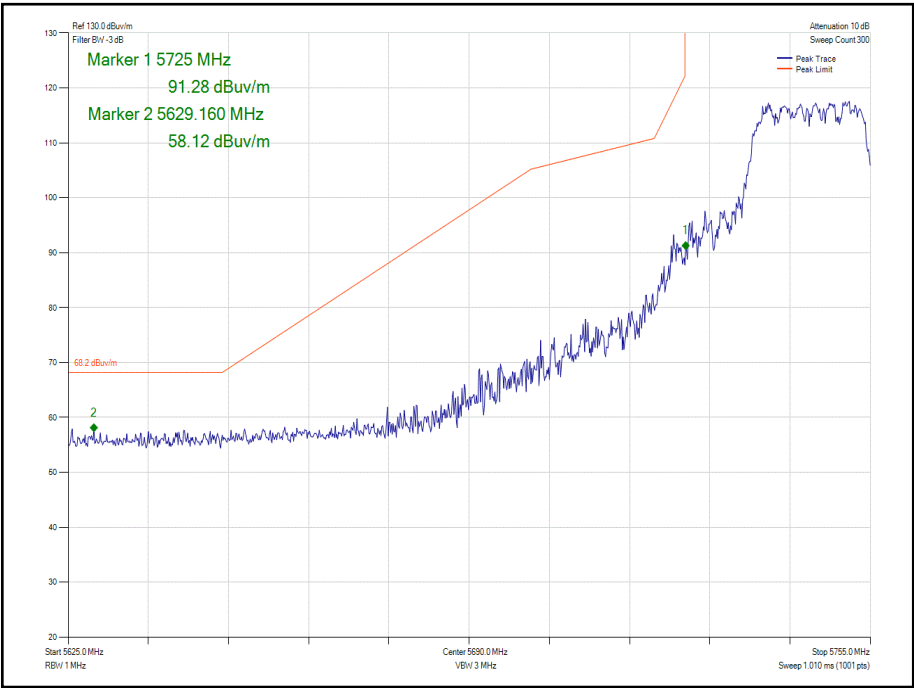


Figure 848 - 802.11n HT20 CDD Cores 0-1 - 5745 MHz
Measured Frequency 5629.16 MHz

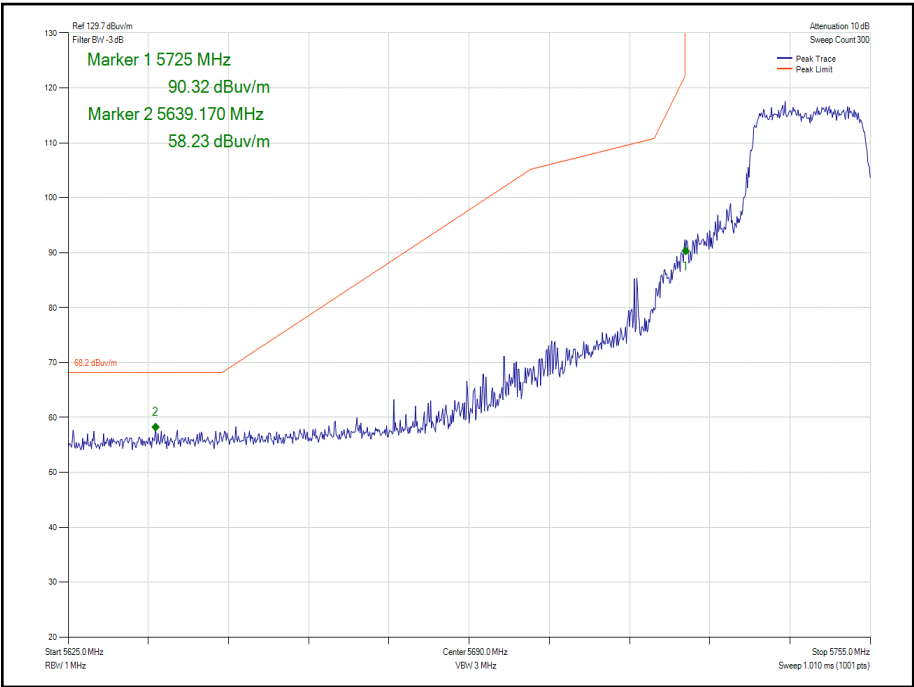


Figure 849 - 802.11n HT20 SDM Cores 0-1 - 5745 MHz
Measured Frequency 5639.17 MHz

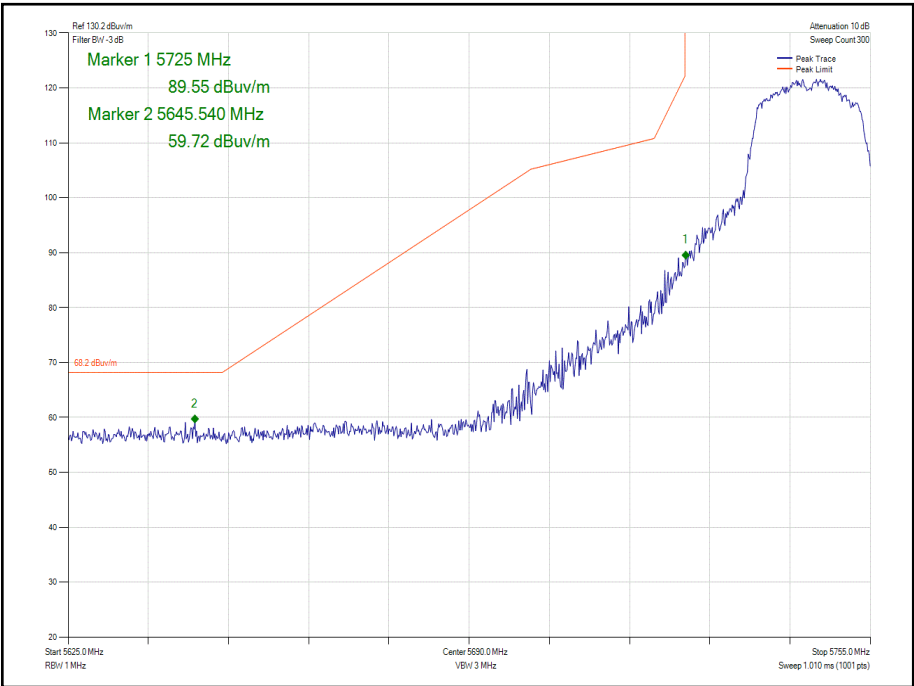


Figure 850 - 802.11ac VHT20 TxBF Cores 0-1 - 5745 MHz
Measured Frequency 5645.54 MHz

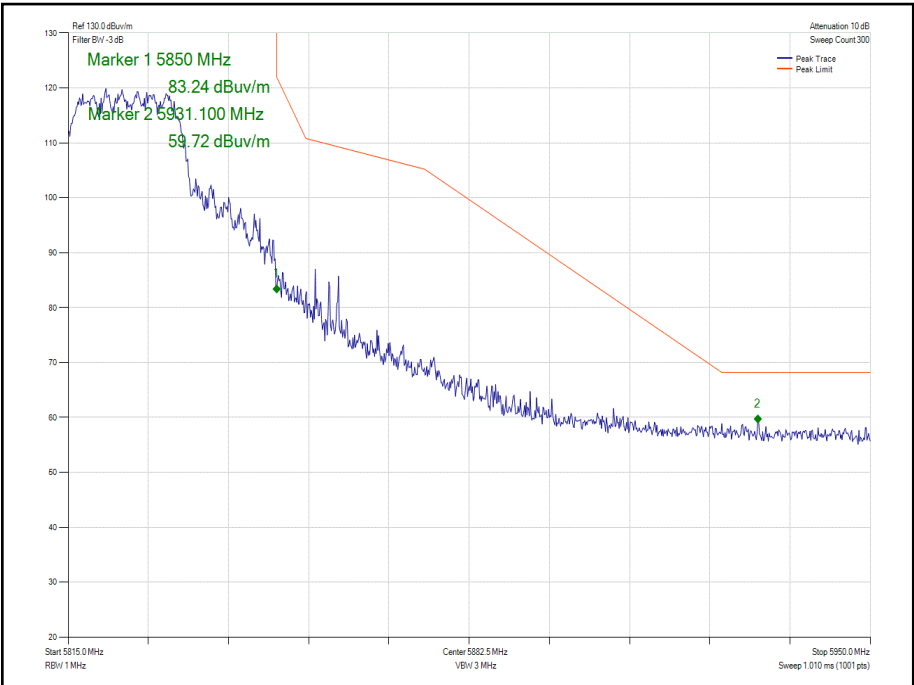


Figure 851 - 802.11n HT20 CDD Cores 0-1 - 5825 MHz
Measured Frequency 5931.1 MHz

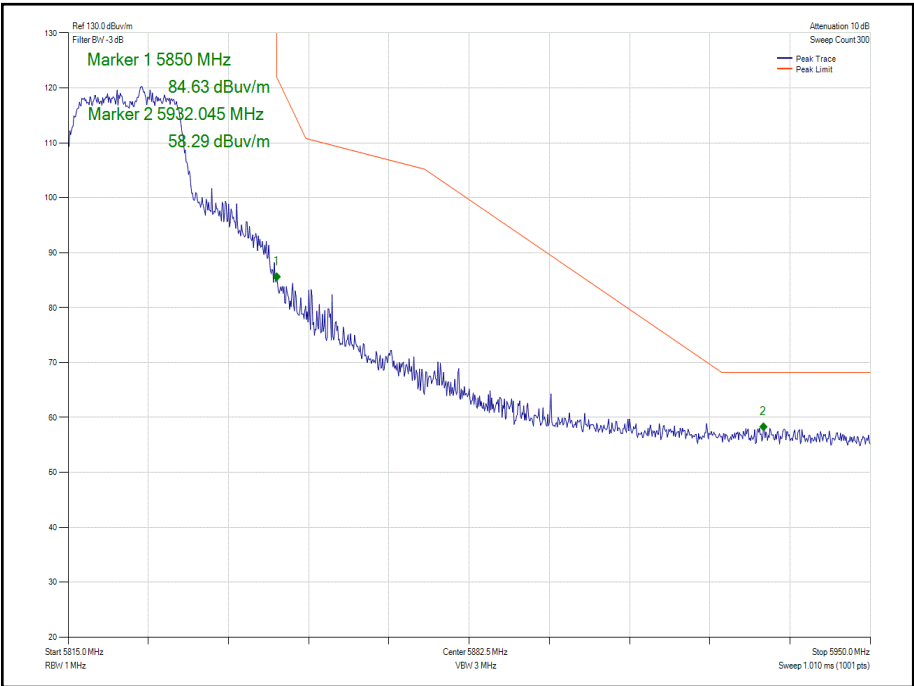


Figure 852 - 802.11n HT20 SDM Cores 0-1 - 5825 MHz
Measured Frequency 5932.045 MHz

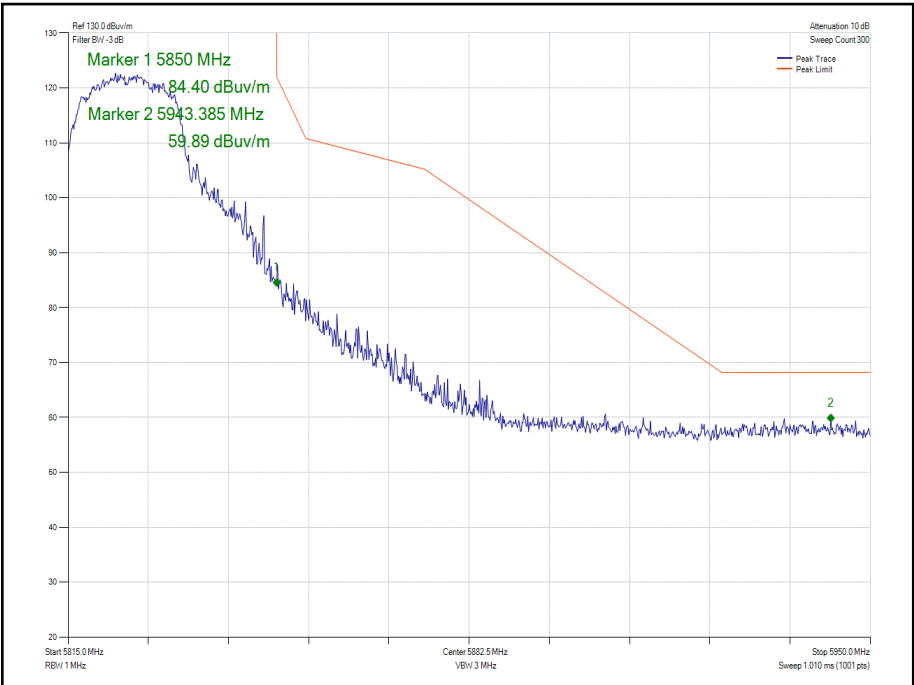


Figure 853 - 802.11ac VHT20 TxBF Cores 0-1 - 5825 MHz
Measured Frequency 5943.385 MHz



Main - 20 MHz Bandwidth (3TX)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n HT20 CDD Cores 0-1-2	MCS0	5500	5455.360	58.08
802.11n HT20 SDM Cores 0-1-2	MCS0	5500	5466.880	59.22
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5500	5469.440	57.45
802.11n HT20 CDD Cores 0-1-2	MCS0	5700	5729.130	60.83
802.11n HT20 SDM Cores 0-1-2	MCS0	5700	5725.910	64.20
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5700	5758.670	57.55
802.11n HT20 CDD Cores 0-1-2	MCS0	5720	5429.960	50.52
802.11n HT20 SDM Cores 0-1-2	MCS0	5720	5296.840	51.75
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5720	5406.040	49.36
802.11n HT20 CDD Cores 0-1-2	MCS0	5720	5867.360	56.93
802.11n HT20 SDM Cores 0-1-2	MCS0	5720	5939.040	57.98
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5720	5964.520	57.22
802.11n HT20 CDD Cores 0-1-2	MCS0	5745	5649.700	61.67
802.11n HT20 SDM Cores 0-1-2	MCS0	5745	5630.200	60.76
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5745	5630.200	60.00
802.11n HT20 CDD Cores 0-1-2	MCS0	5825	5950.000	61.03
802.11n HT20 SDM Cores 0-1-2	MCS0	5825	5937.445	60.66
802.11ac VHT20 TxBF Cores 0-1-2	MCS0	5825	5930.560	58.93

Table 437

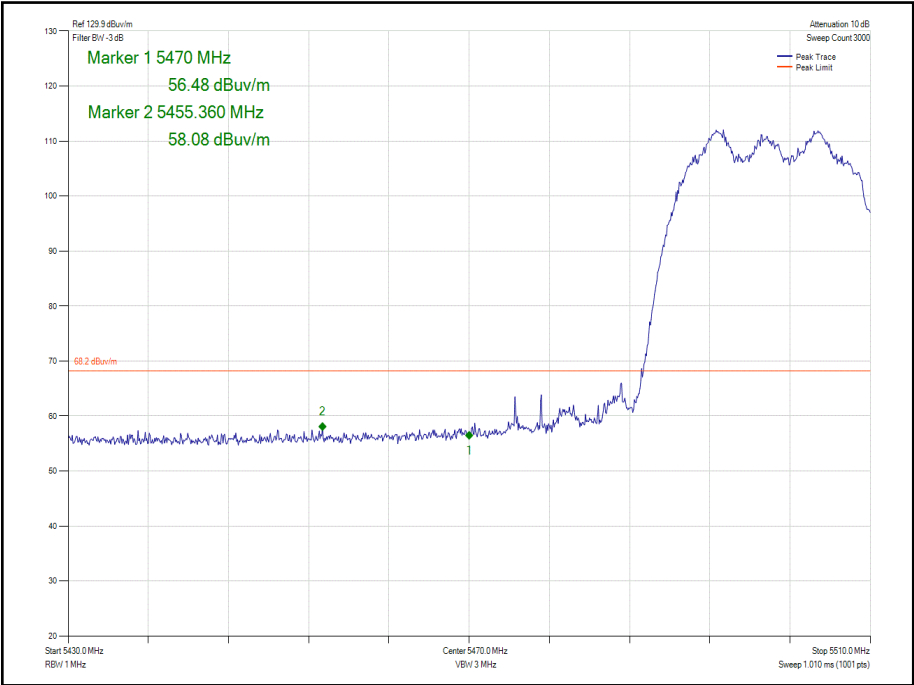


Figure 854 - 802.11n HT20 CDD Cores 0-1-2 - 5500 MHz
Measured Frequency 5455.36 MHz

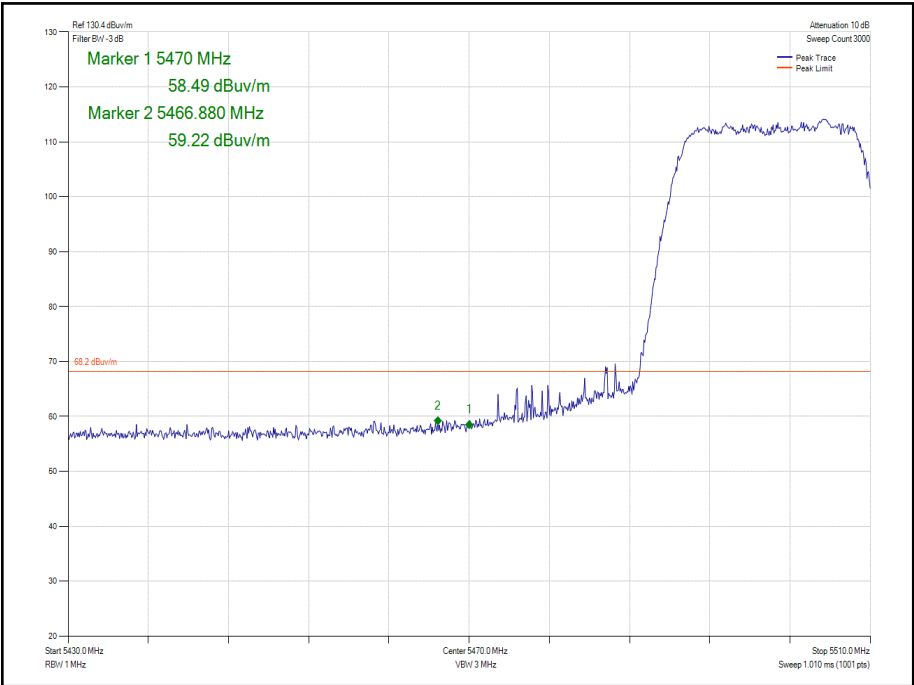


Figure 855 - 802.11n HT20 SDM Cores 0-1-2 - 5500 MHz
Measured Frequency 5466.88 MHz

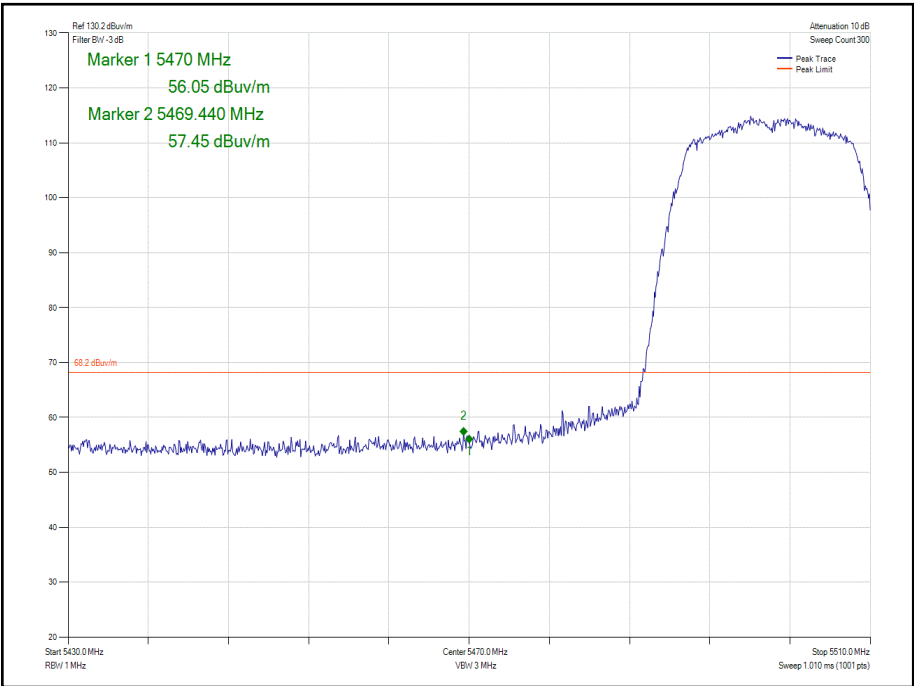


Figure 856 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5500 MHz
Measured Frequency 5469.44 MHz

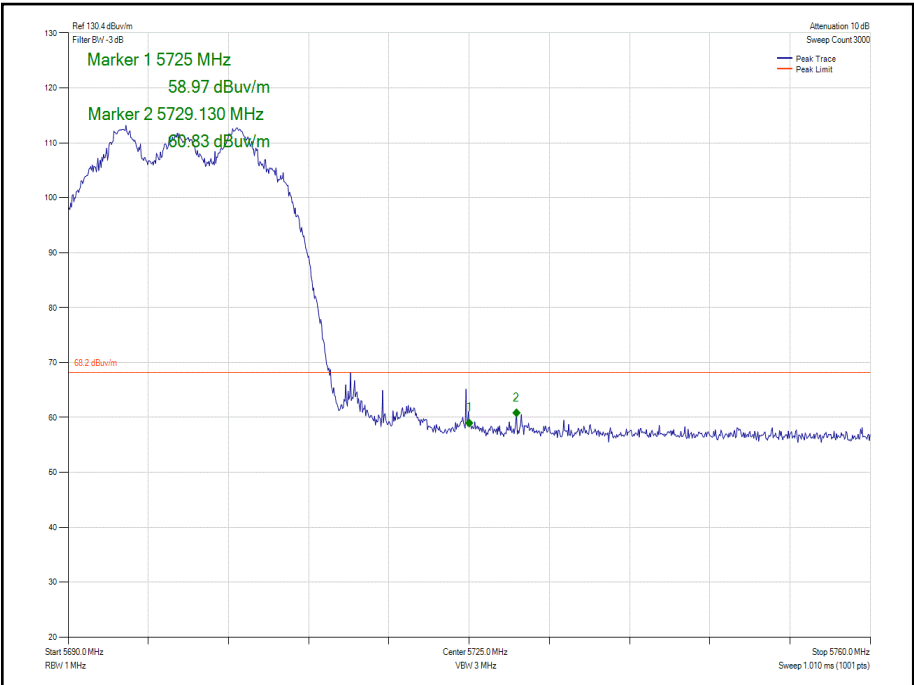


Figure 857 - 802.11n HT20 CDD Cores 0-1-2 - 5700 MHz
Measured Frequency 5729.13 MHz

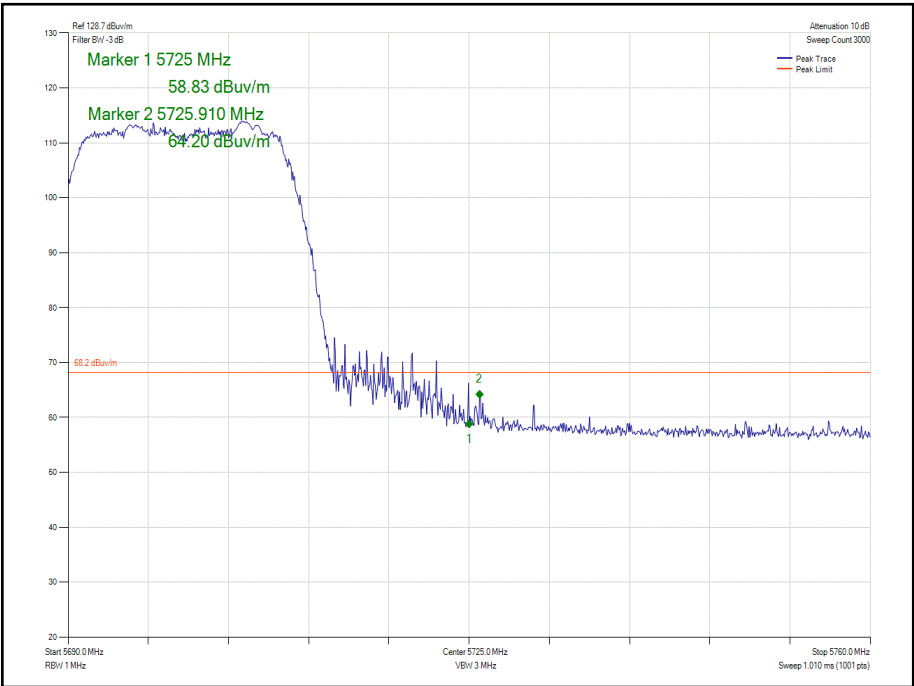


Figure 858 - 802.11n HT20 SDM Cores 0-1-2 - 5700 MHz
Measured Frequency 5725.91 MHz

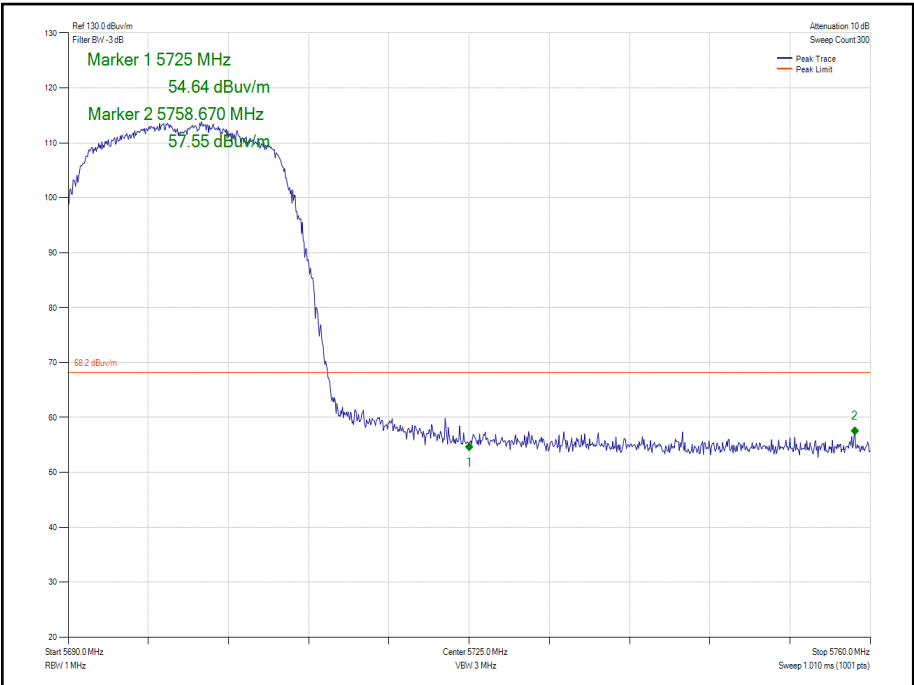


Figure 859 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5700 MHz
Measured Frequency 5758.67 MHz

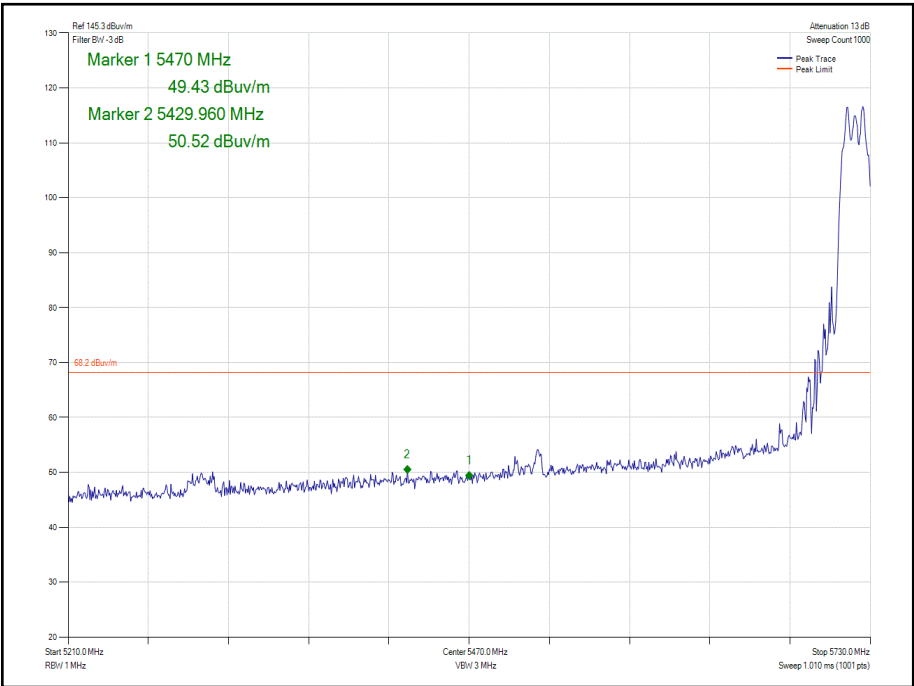


Figure 860 - 802.11n HT20 CDD Cores 0-1-2 - 5720 MHz
Measured Frequency 5429.96 MHz

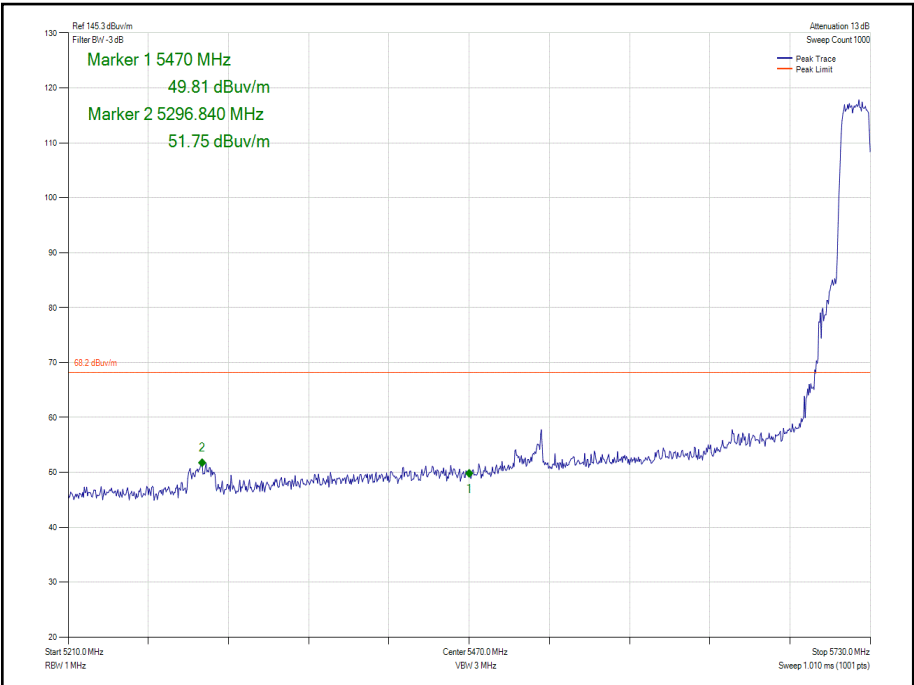


Figure 861 - 802.11n HT20 SDM Cores 0-1-2 - 5720 MHz
Measured Frequency 5296.84 MHz

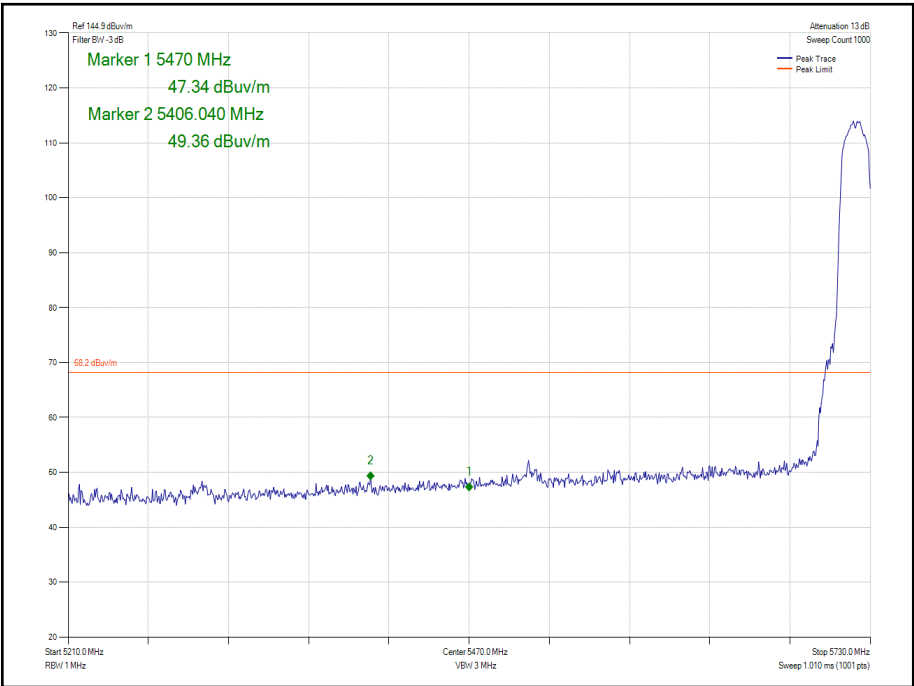


Figure 862 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5720 MHz
Measured Frequency 5406.04 MHz

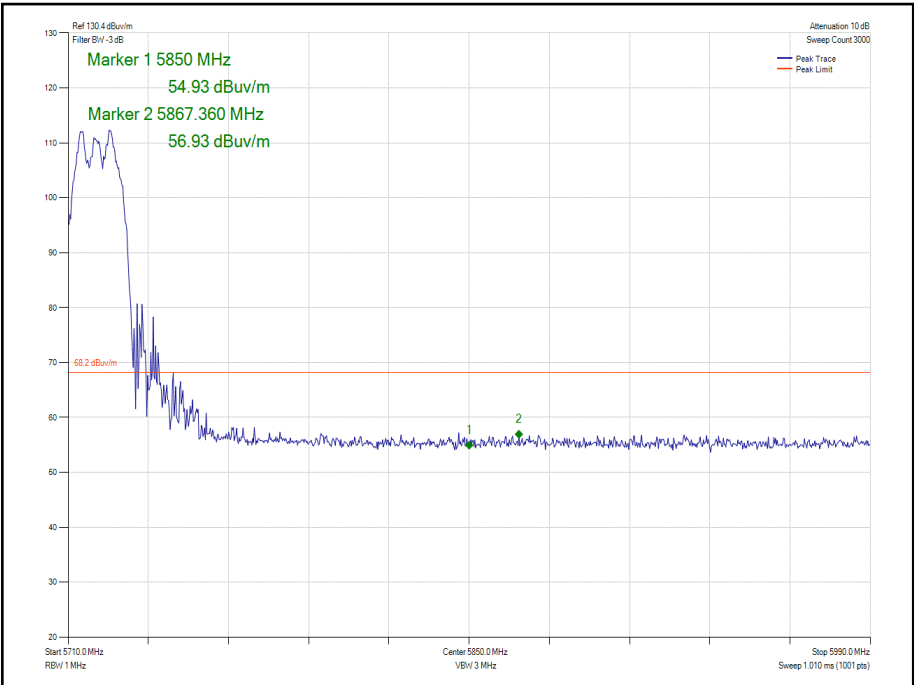


Figure 863 - 802.11n HT20 CDD Cores 0-1-2 - 5720 MHz
Measured Frequency 5867.36 MHz

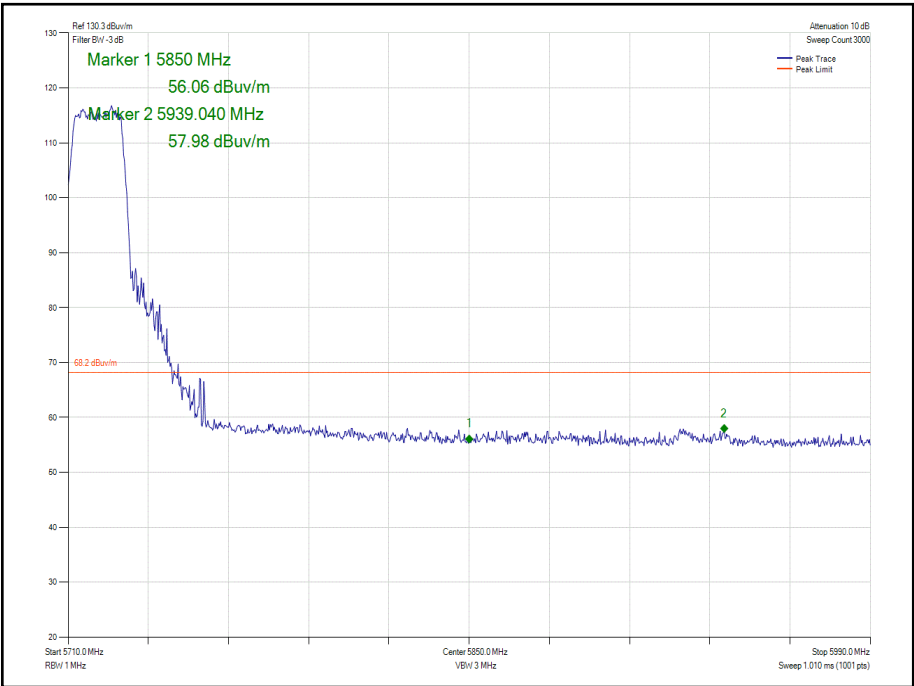


Figure 864 - 802.11n HT20 SDM Cores 0-1-2 - 5720 MHz
Measured Frequency 5939.04 MHz

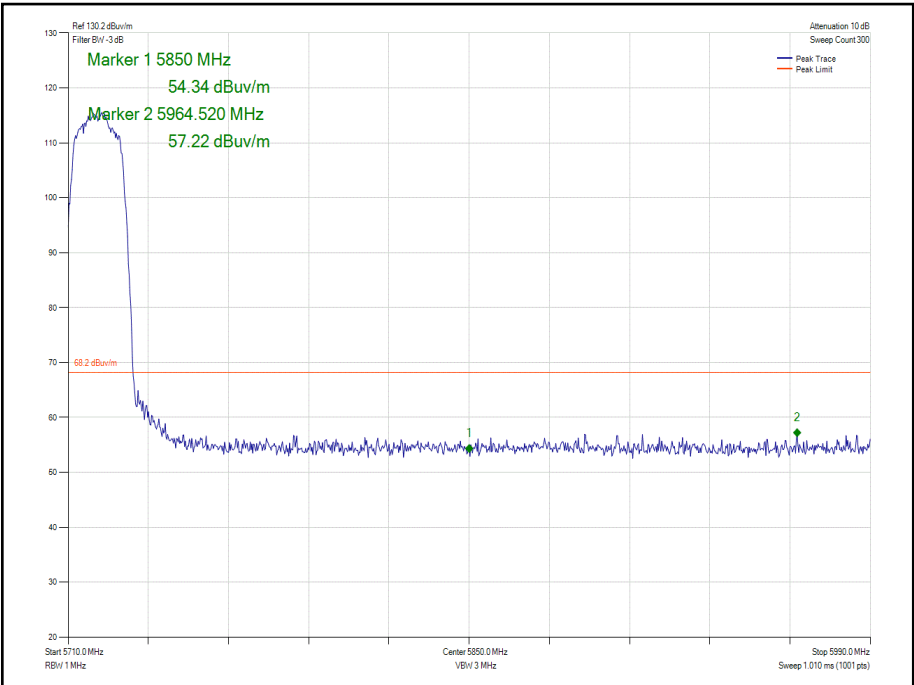


Figure 865 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5720 MHz
Measured Frequency 5964.52 MHz

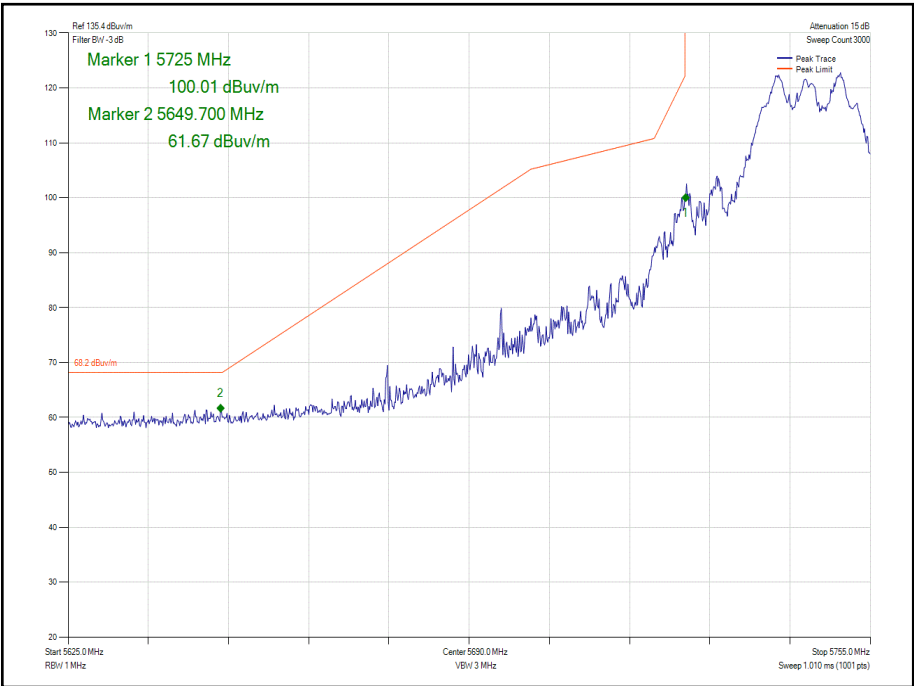


Figure 866 - 802.11n HT20 CDD Cores 0-1-2 - 5745 MHz
Measured Frequency 5649.7 MHz

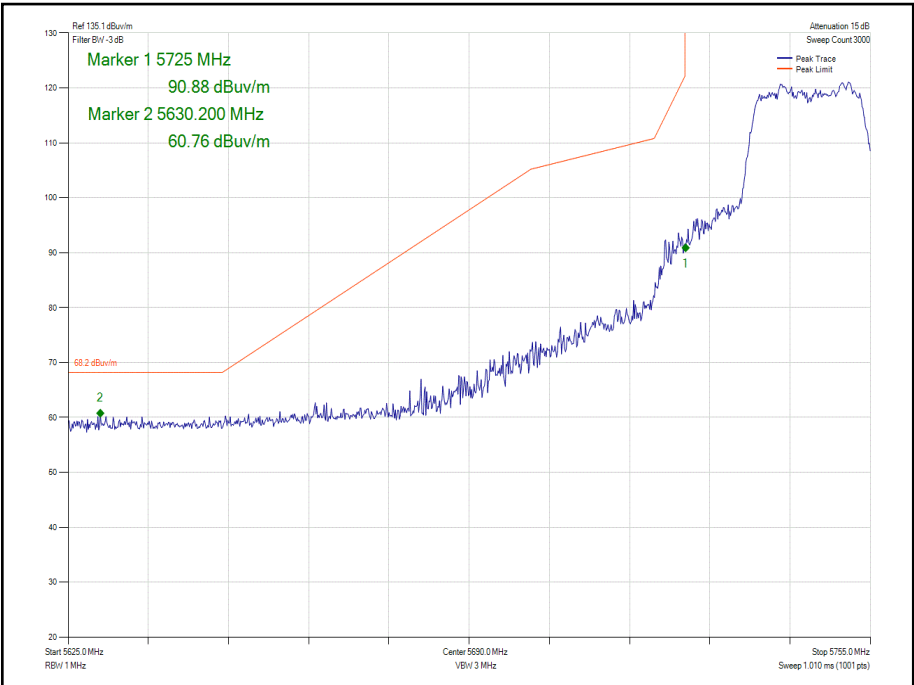


Figure 867 - 802.11n HT20 SDM Cores 0-1-2 - 5745 MHz
Measured Frequency 5630.2 MHz

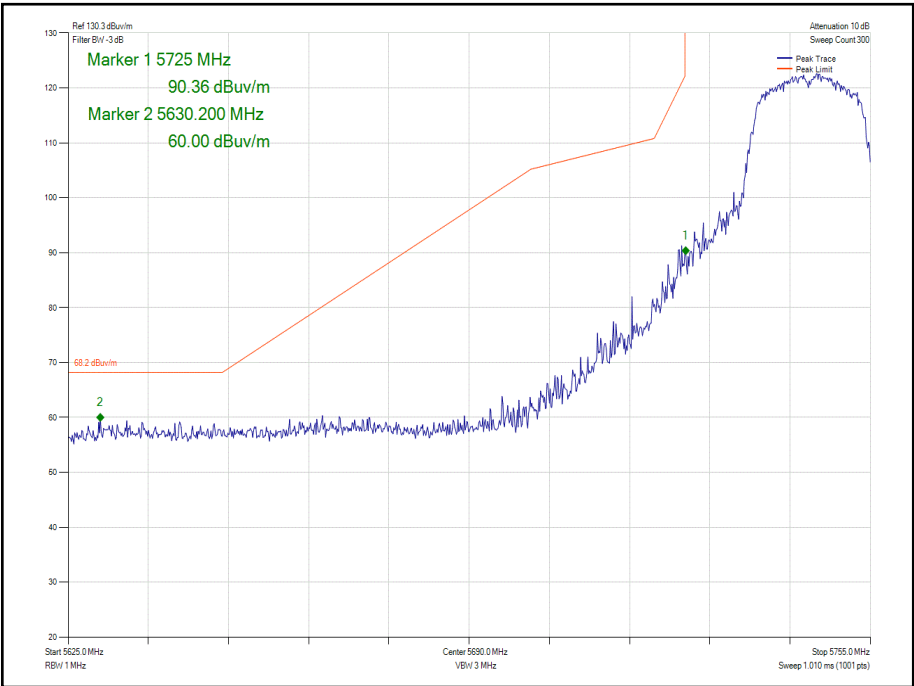


Figure 868 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5745 MHz
Measured Frequency 5630.2 MHz

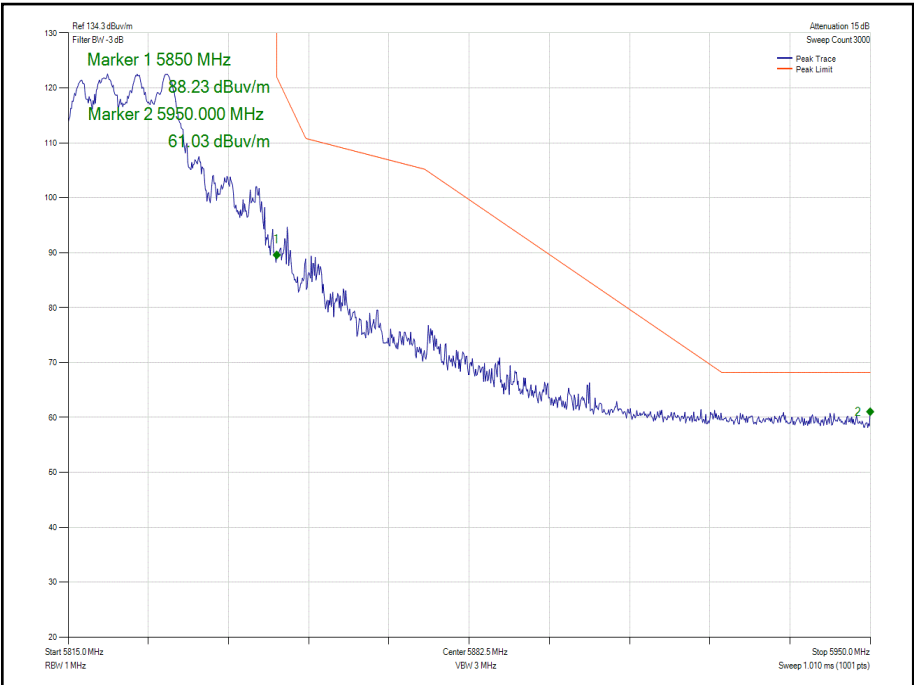


Figure 869 - 802.11n HT20 CDD Cores 0-1-2 - 5825 MHz
Measured Frequency 5950 MHz

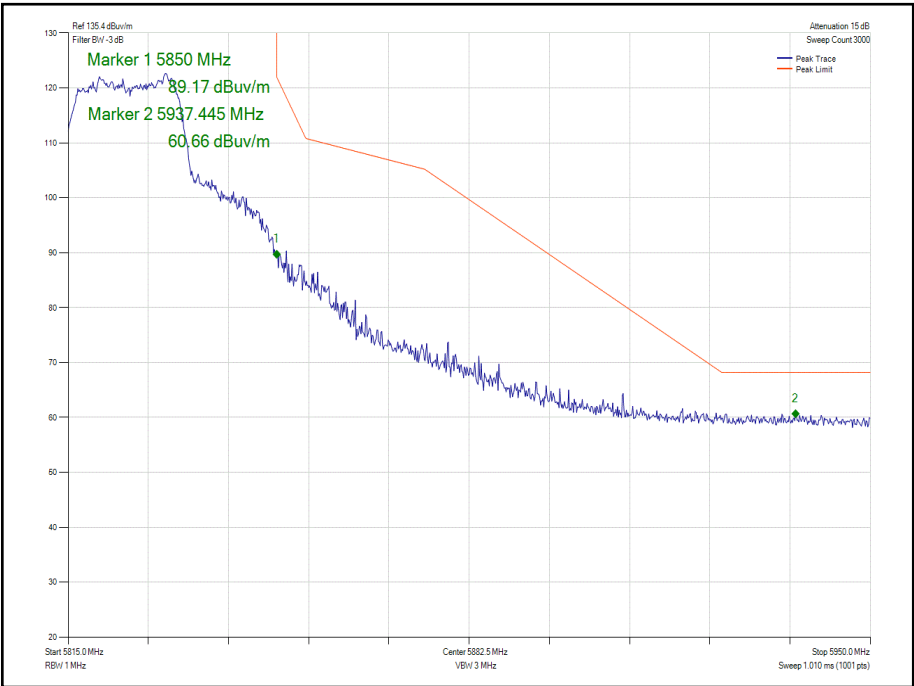


Figure 870 - 802.11n HT20 SDM Cores 0-1-2 - 5825 MHz
Measured Frequency 5937.445 MHz

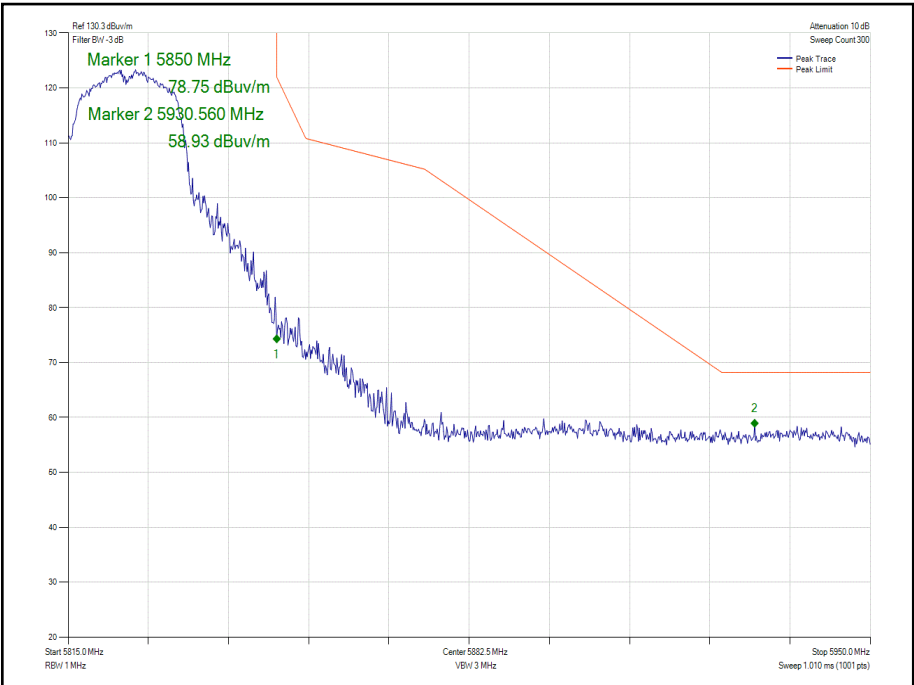


Figure 871 - 802.11ac VHT20 TxBF Cores 0-1-2 - 5825 MHz
Measured Frequency 5930.56 MHz



Main - 40 MHz Bandwidth (SISO)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n HT40 Core 0	MCS0	5510	5461.000	63.18
802.11n HT40 Core 0	MCS0	5670	5727.850	63.47
802.11n HT40 Core 0	MCS0	5710	5458.040	52.75
802.11n HT40 Core 0	MCS0	5710	5881.040	57.06
802.11n HT40 Core 0	MCS0	5755	5646.000	63.18
802.11n HT40 Core 0	MCS0	5795	5929.700	60.75

Table 438

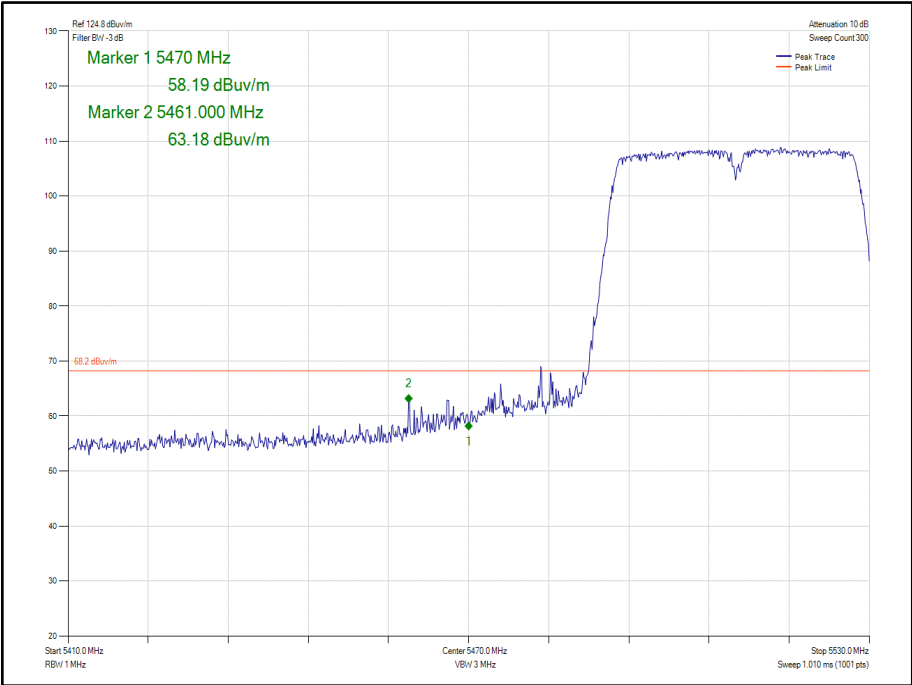


Figure 872 - 802.11n HT40 Core 0 - 5510 MHz
Measured Frequency 5461 MHz

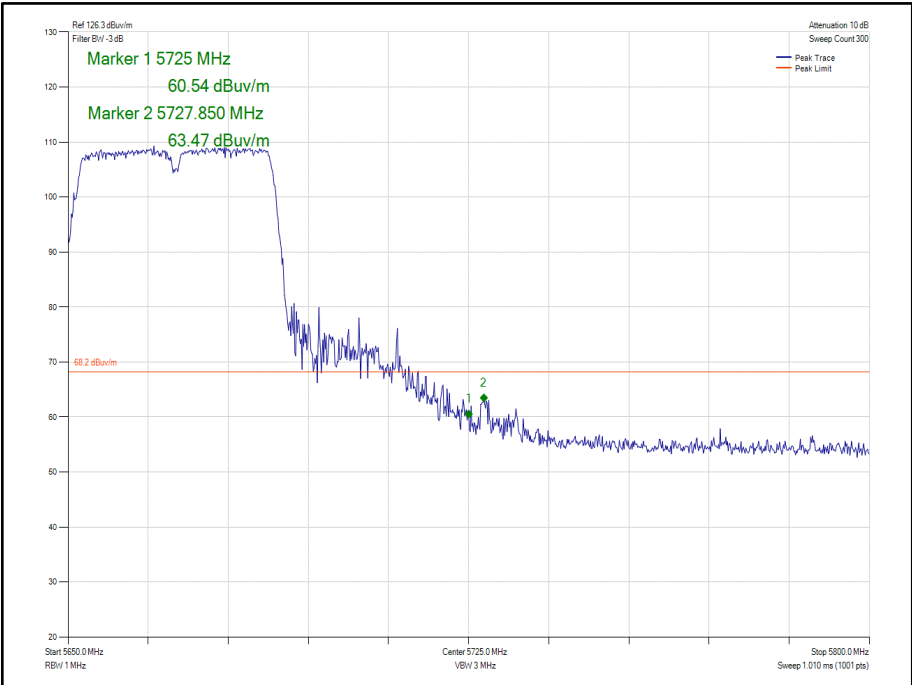


Figure 873 - 802.11n HT40 Core 0 - 5670 MHz
Measured Frequency 5727.85 MHz

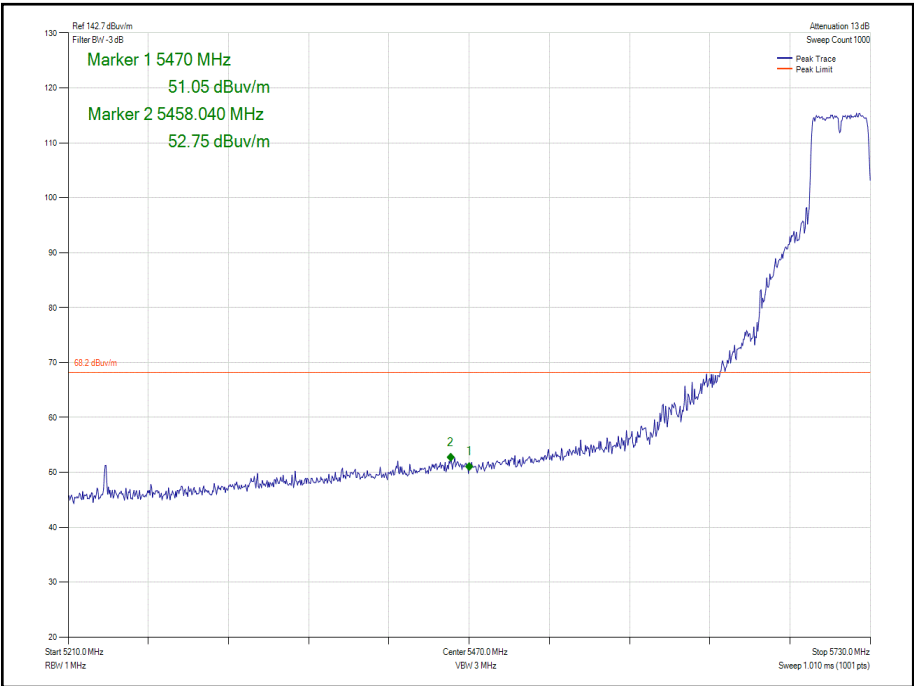


Figure 874 - 802.11n HT40 Core 0 - 5710 MHz
Measured Frequency 5458.04 MHz

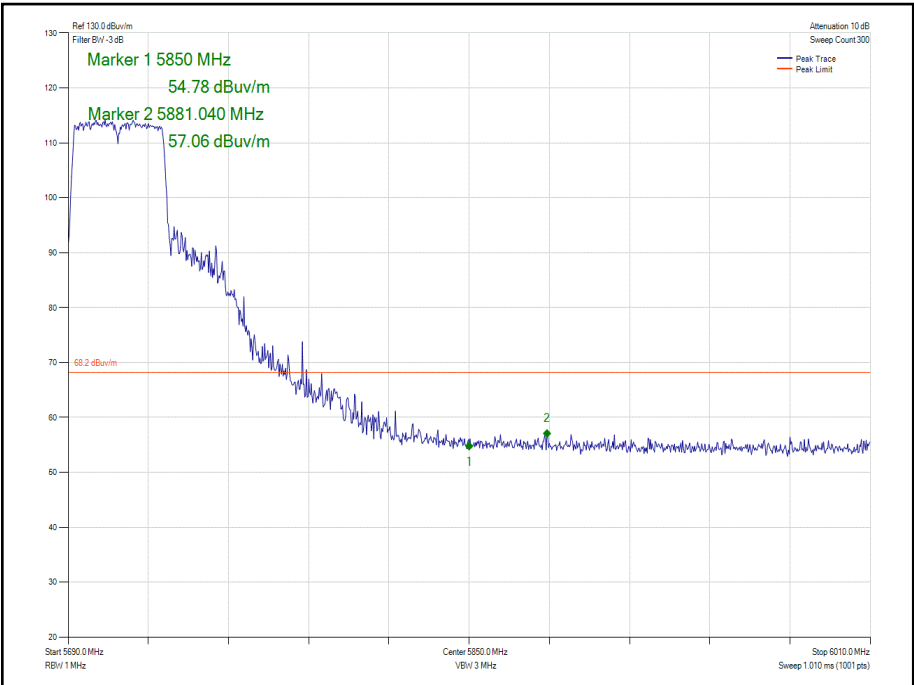


Figure 875 - 802.11n HT40 Core 0 - 5710 MHz
Measured Frequency 5881.04 MHz

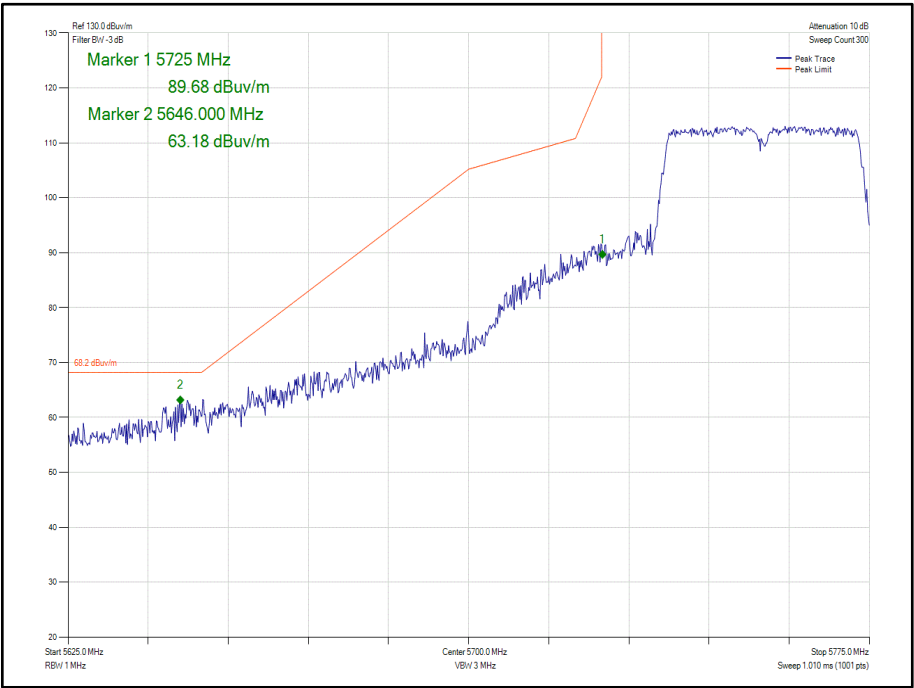


Figure 876 - 802.11n HT40 Core 0 - 5755 MHz
Measured Frequency 5646 MHz

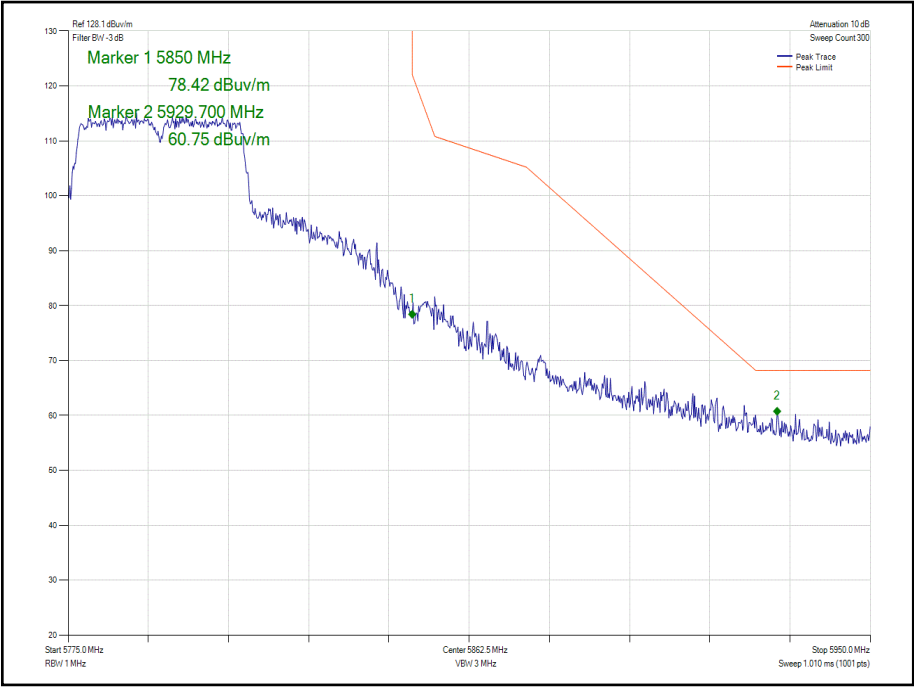


Figure 877 - 802.11n HT40 Core 0 - 5795MHz
Measured Frequency 5929.7 MHz



Main - 40 MHz Bandwidth (2TX)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n HT40 CDD Cores 0-1	MCS0	5510	5469.520	62.29
802.11n HT40 SDM Cores 0-1	MCS0	5510	5457.160	58.98
802.11ac VHT40 TxBF Cores 0-1	MCS0	5510	5466.640	60.73
802.11n HT40 CDD Cores 0-1	MCS0	5670	5729.950	63.19
802.11n HT40 SDM Cores 0-1	MCS0	5670	5725.300	66.39
802.11ac VHT40 TxBF Cores 0-1	MCS0	5670	5725.000	62.79
802.11n HT40 CDD Cores 0-1	MCS0	5710	5467.920	52.84
802.11n HT40 SDM Cores 0-1	MCS0	5710	5463.760	52.78
802.11ac VHT40 TxBF Cores 0-1	MCS0	5710	5467.400	50.97
802.11n HT40 CDD Cores 0-1	MCS0	5710	5855.120	57.14
802.11n HT40 SDM Cores 0-1	MCS0	5710	5922.960	57.47
802.11ac VHT40 TxBF Cores 0-1	MCS0	5710	5865.680	57.44
802.11n HT40 CDD Cores 0-1	MCS0	5755	5644.350	63.42
802.11n HT40 SDM Cores 0-1	MCS0	5755	5649.750	68.16
802.11ac VHT40 TxBF Cores 0-1	MCS0	5755	5651.400	61.48
802.11n HT40 CDD Cores 0-1	MCS0	5795	5924.975	62.24
802.11n HT40 SDM Cores 0-1	MCS0	5795	5930.575	63.57
802.11ac VHT40 TxBF Cores 0-1	MCS0	5795	5926.900	63.58

Table 439

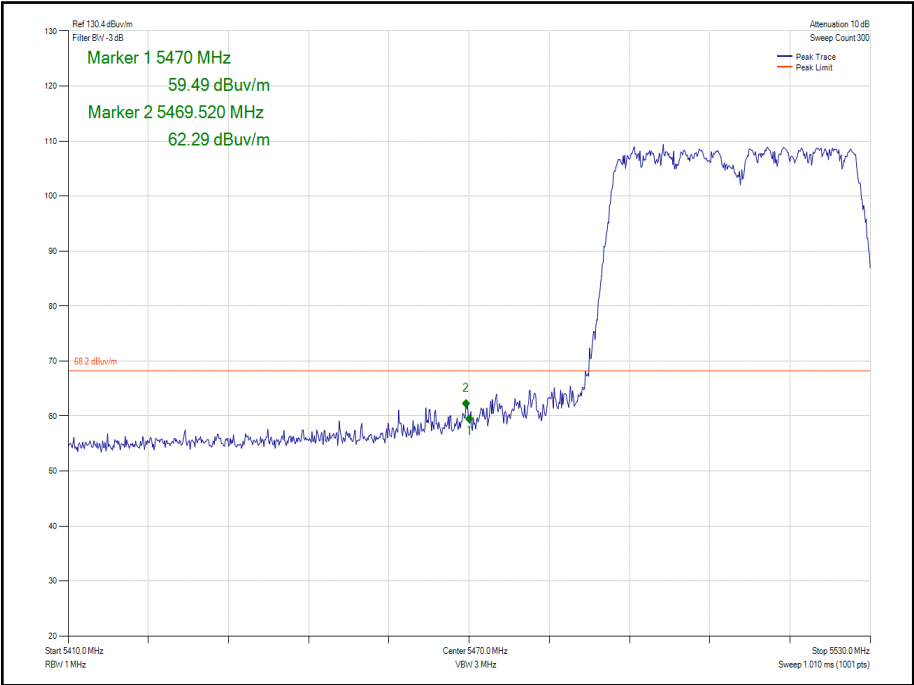


Figure 878 - 802.11n HT40 CDD Cores 0-1 - 5510 MHz
Measured Frequency 5469.52 MHz

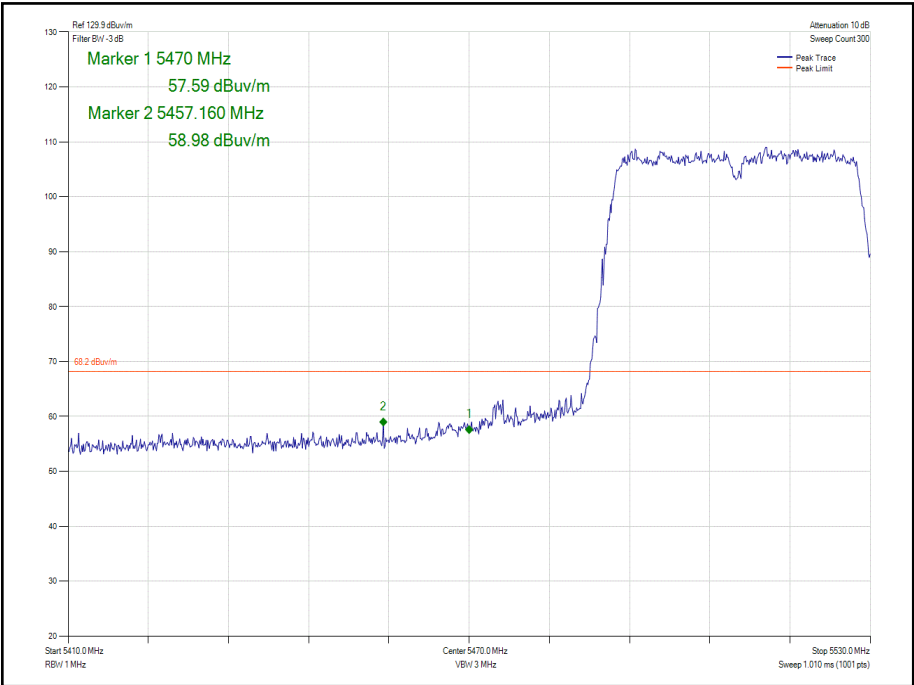


Figure 879 - 802.11n HT40 SDM Cores 0-1 - 5510 MHz
Measured Frequency 5457.16 MHz

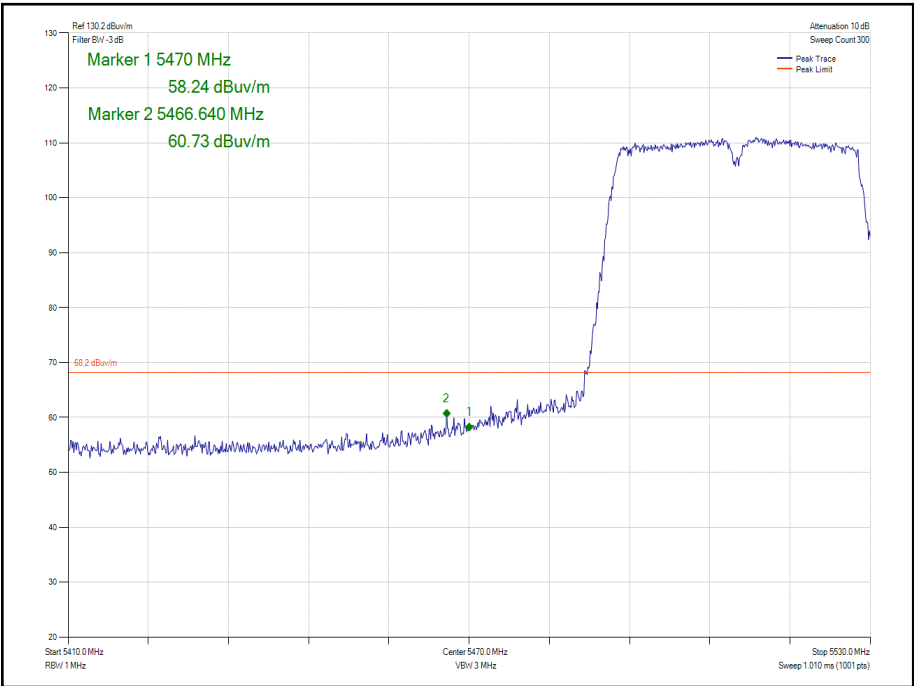


Figure 880 - 802.11ac VHT40 TxBF Cores 0-1 - 5510 MHz
Measured Frequency 5466.64 MHz

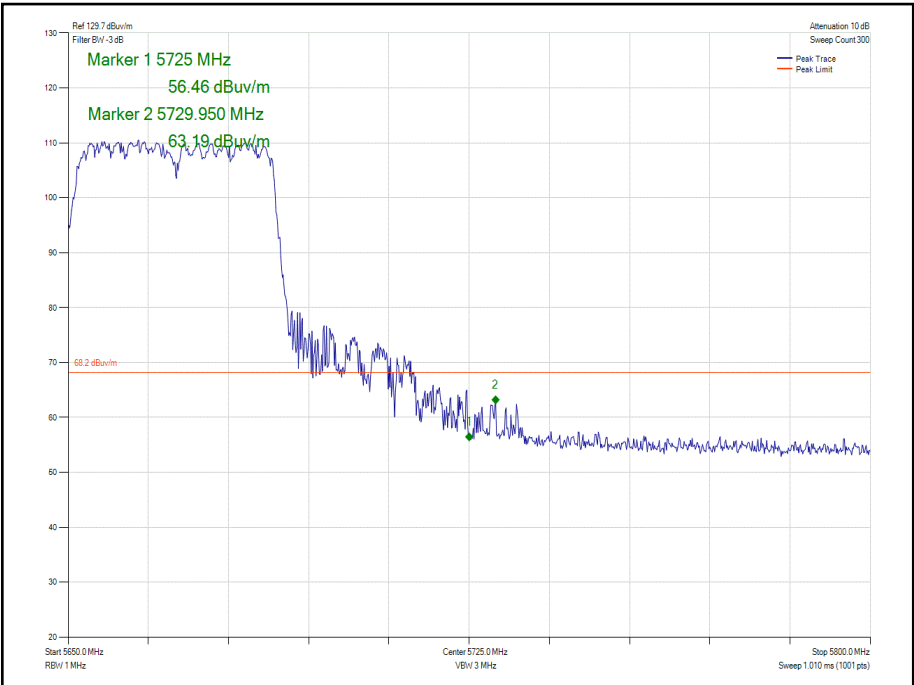


Figure 881 - 802.11n HT40 CDD Cores 0-1 - 5670 MHz
Measured Frequency 5729.95 MHz

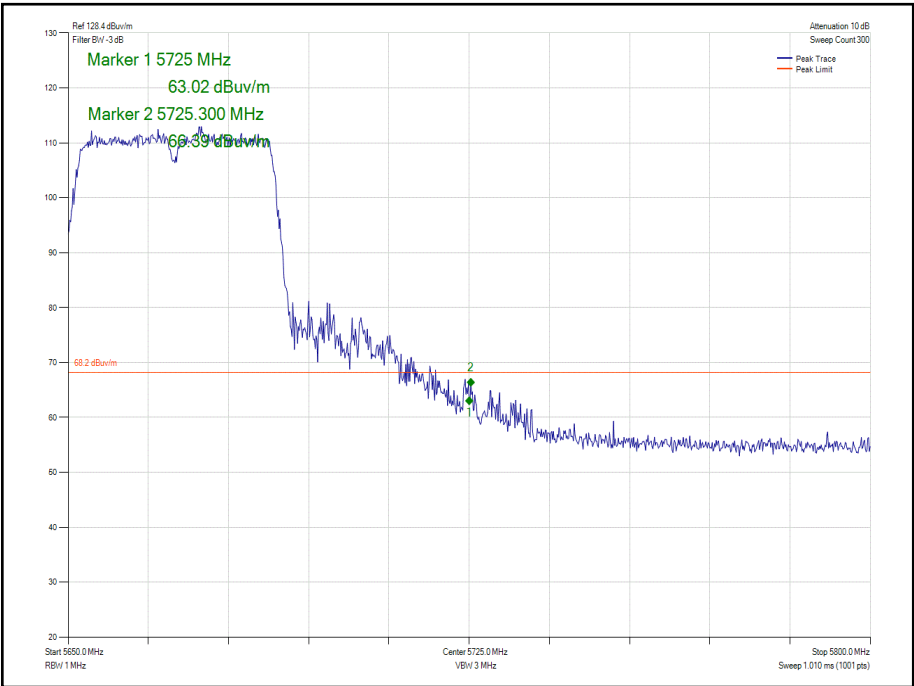


Figure 882 - 802.11n HT40 SDM Cores 0-1 - 5670 MHz
Measured Frequency 5725.3 MHz

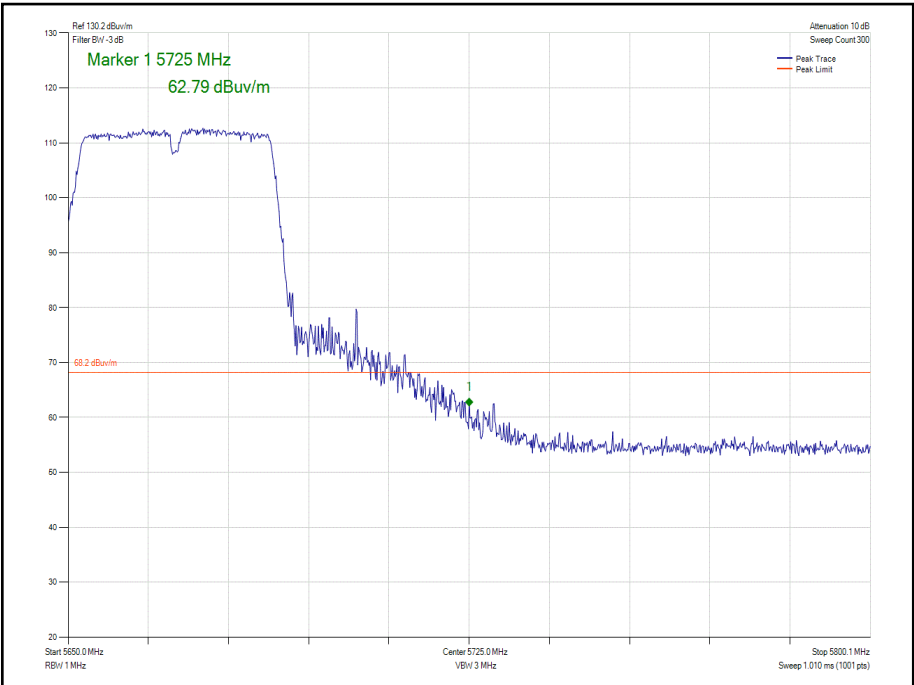


Figure 883 - 802.11ac VHT40 Tx BF Cores 0-1 - 5670 MHz
Measured Frequency 5725 MHz

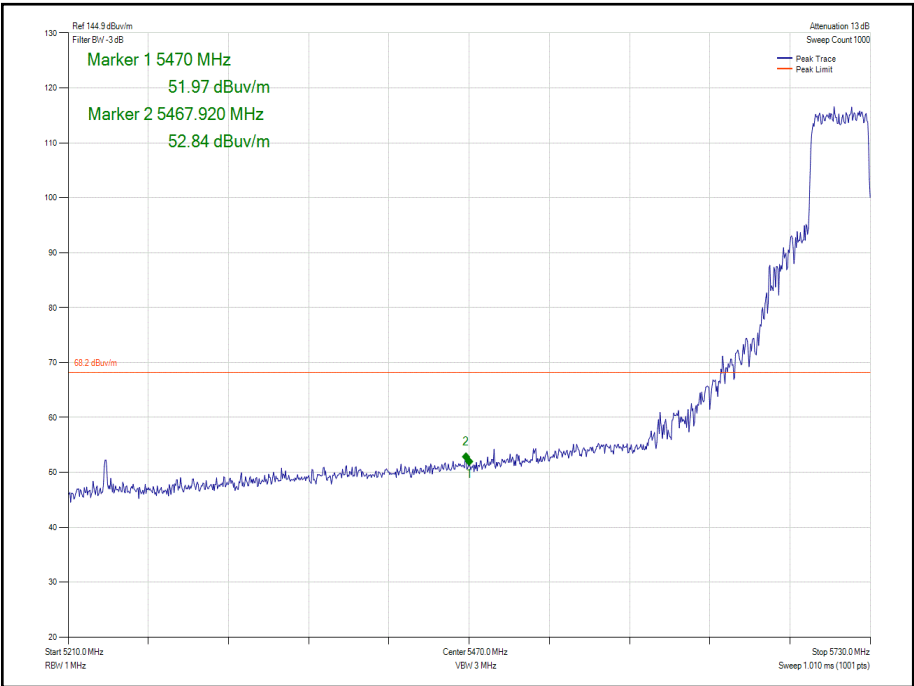


Figure 884 - 802.11n HT40 CDD Cores 0-1 - 5710 MHz
Measured Frequency 5467.92 MHz

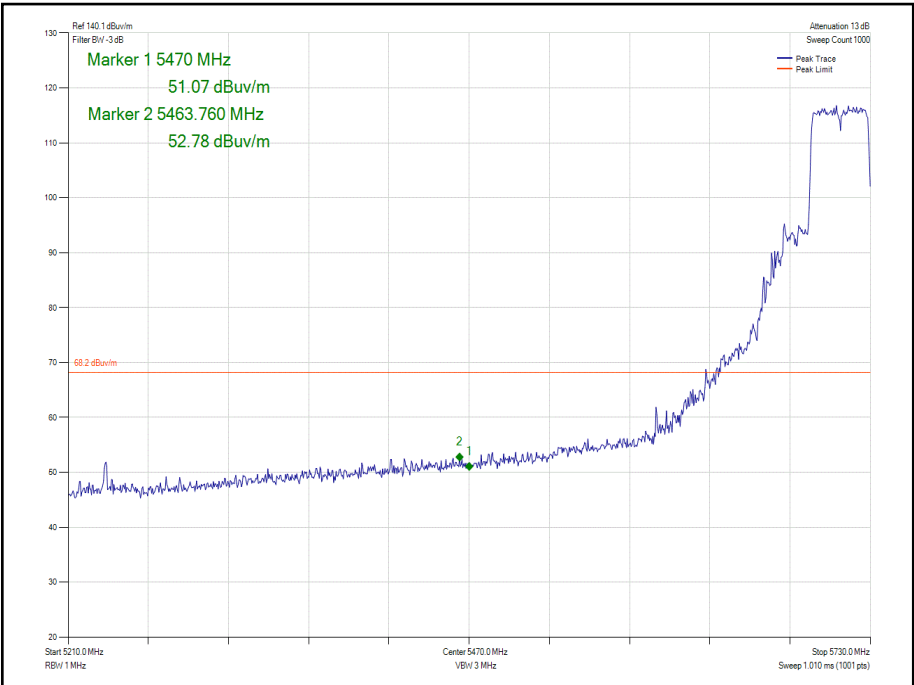


Figure 885 - 802.11n HT40 SDM Cores 0-1 - 5710 MHz
Measured Frequency 5463.76 MHz

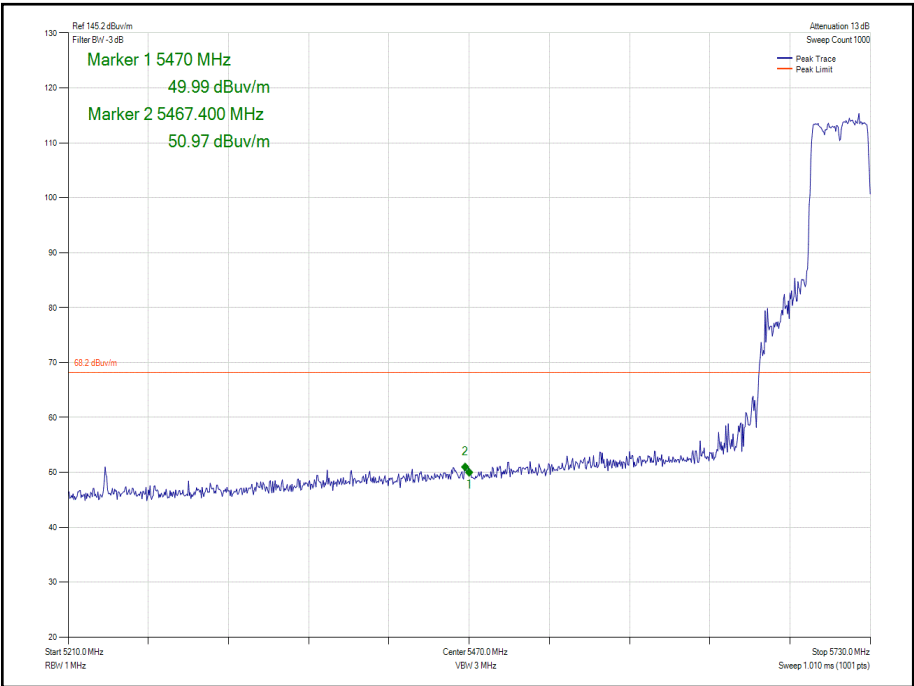


Figure 886 - 802.11ac VHT40 TxBF Cores 0-1 - 5710 MHz
Measured Frequency 5467.4 MHz

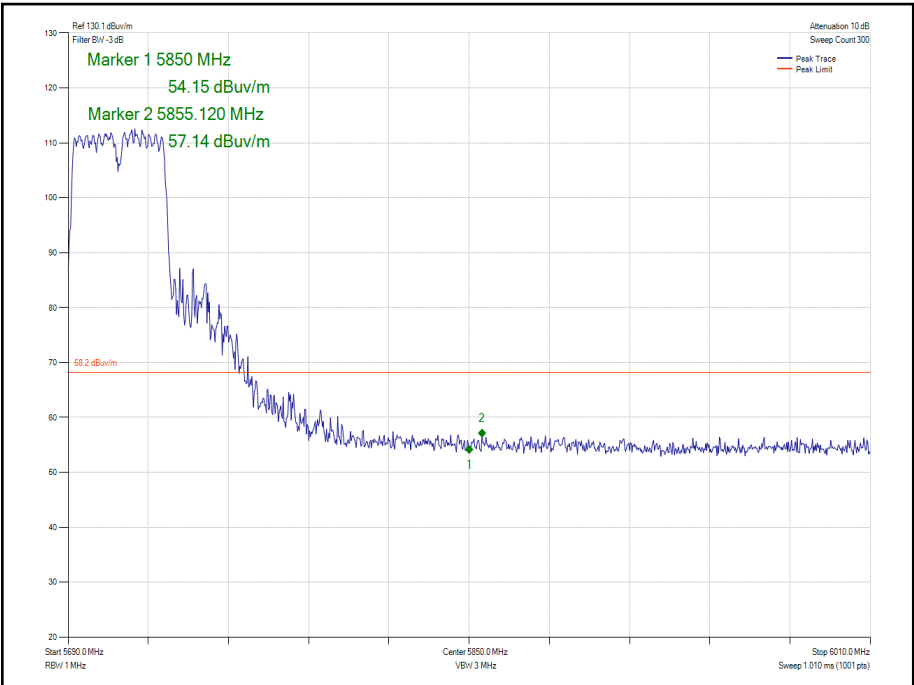


Figure 887 - 802.11n HT40 CDD Cores 0-1 - 5710 MHz
Measured Frequency 5855.12 MHz

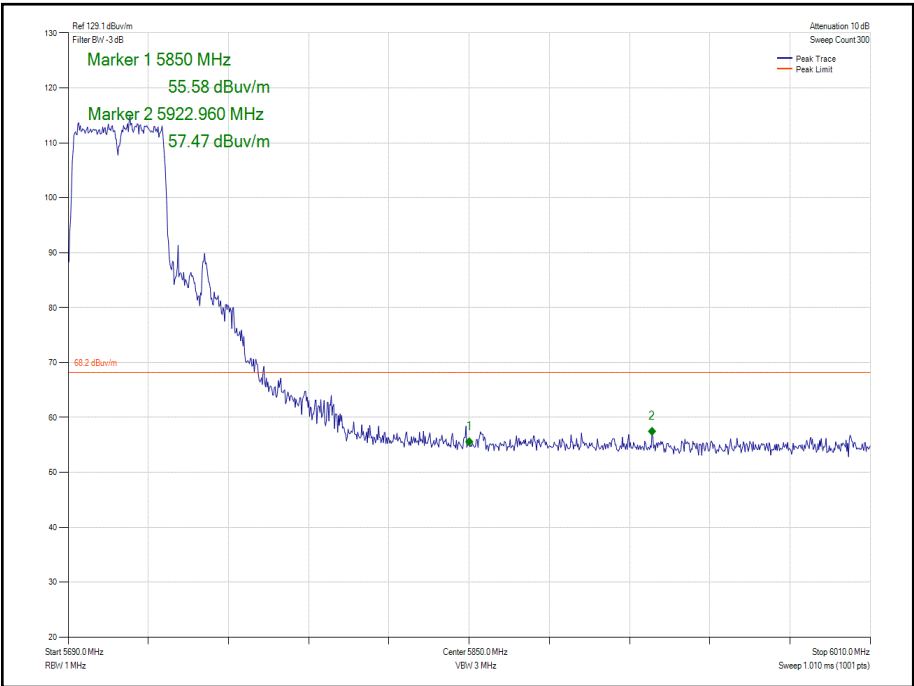


Figure 888 - 802.11n HT40 SDM Cores 0-1 - 5710 MHz
Measured Frequency 5922.96 MHz

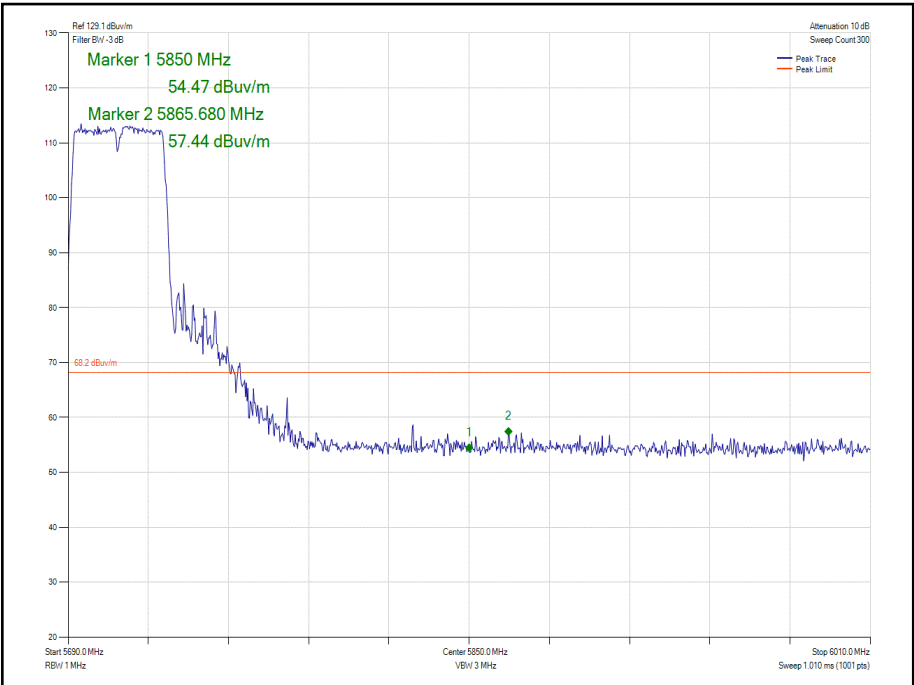


Figure 889 - 802.11ac VHT40 Tx BF Cores 0-1 - 5710 MHz
Measured Frequency 5865.68 MHz

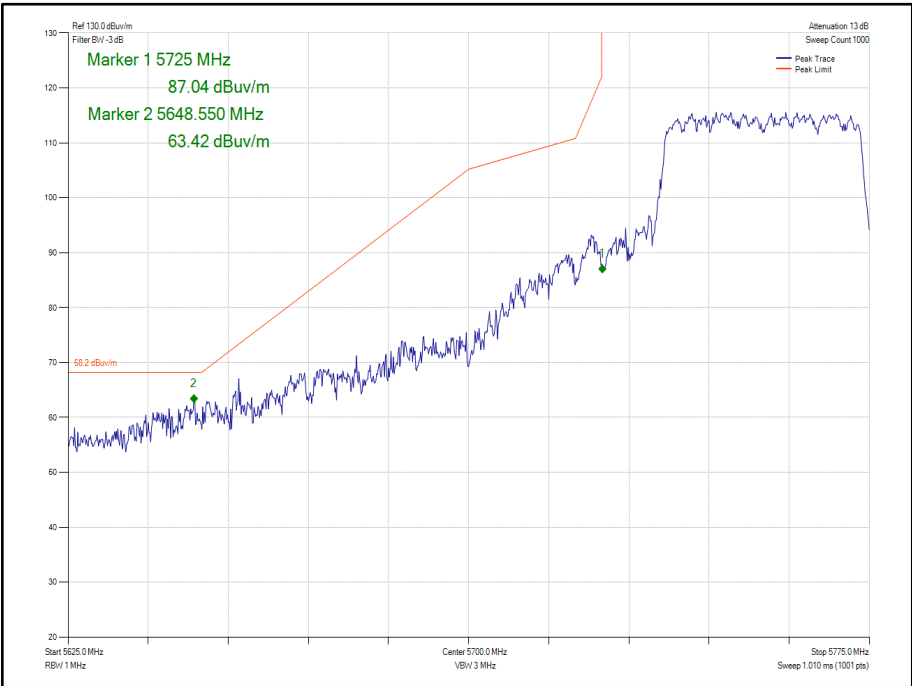


Figure 890 - 802.11n HT40 CDD Cores 0-1 - 5755 MHz
Measured Frequency 5644.35 MHz

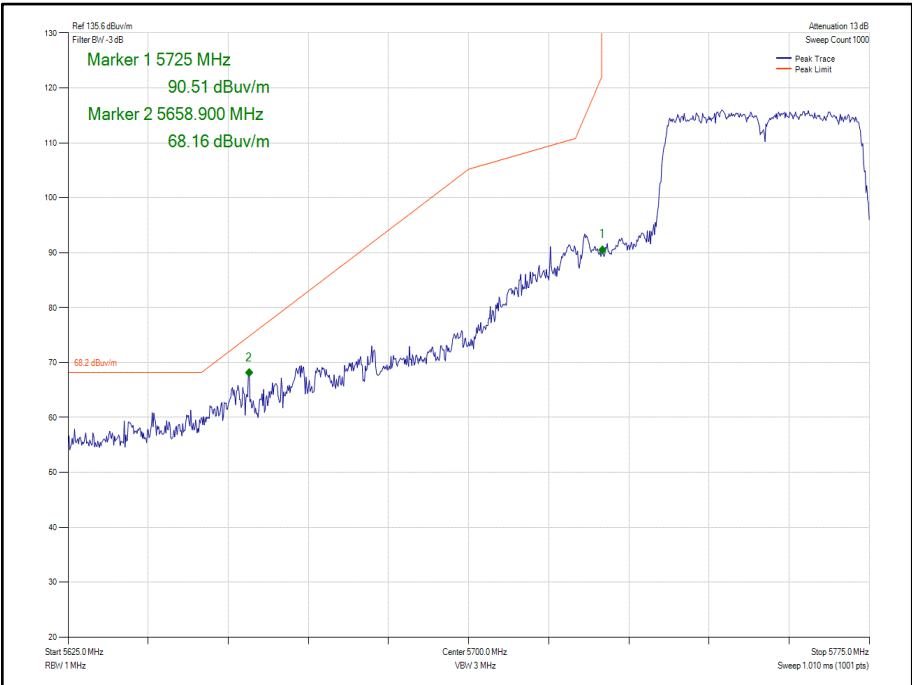


Figure 891 - 802.11n HT40 SDM Cores 0-1 - 5755 MHz
Measured Frequency 5649.75 MHz

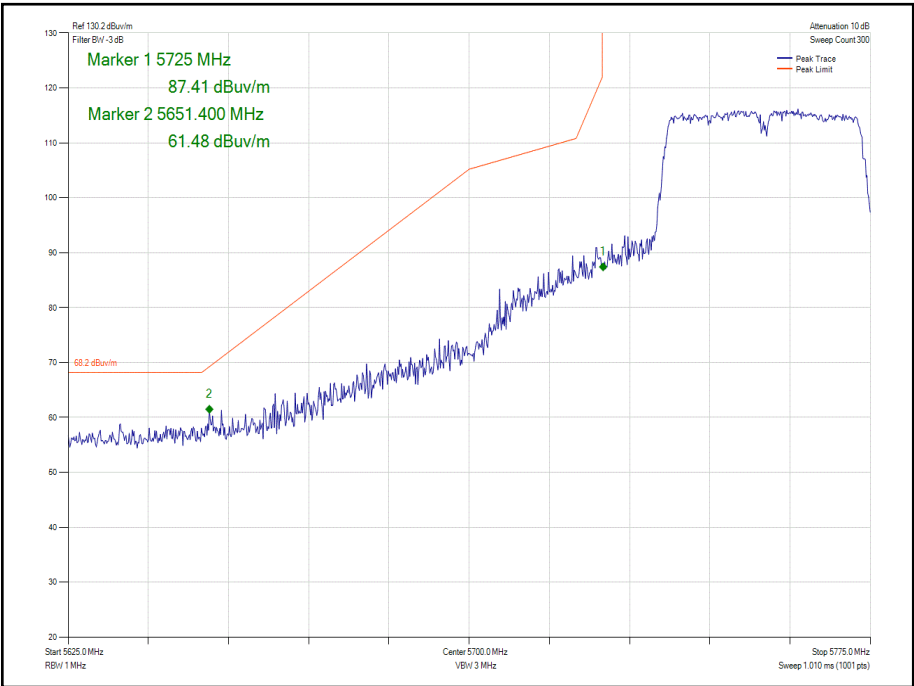


Figure 892 - 802.11ac VHT40 TxBF Cores 0-1 - 5755 MHz
Measured Frequency 5651.4 MHz

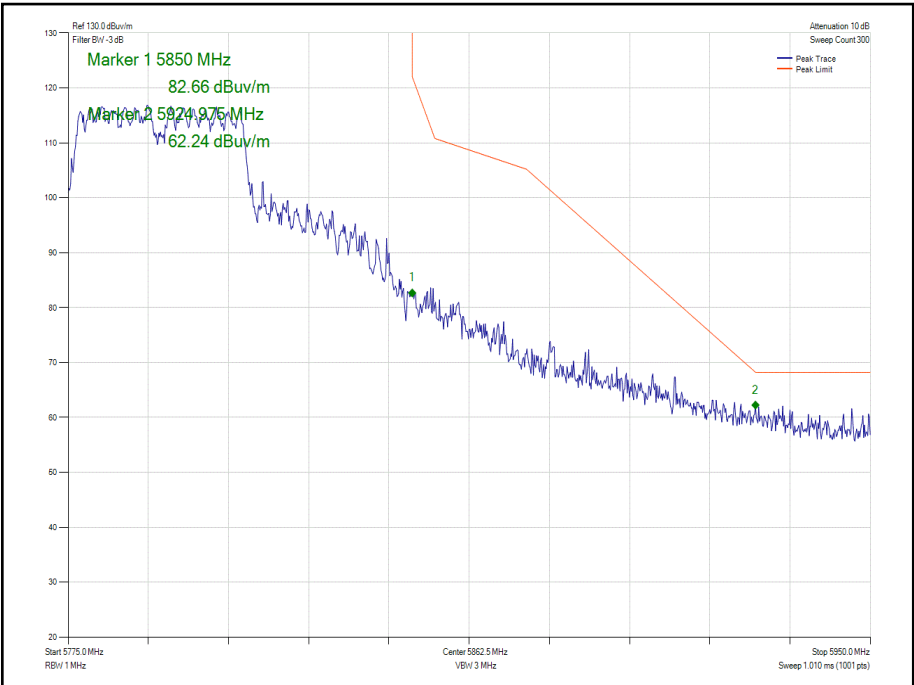


Figure 893 - 802.11n HT40 CDD Cores 0-1 - 5795MHz
Measured Frequency 5924.975 MHz

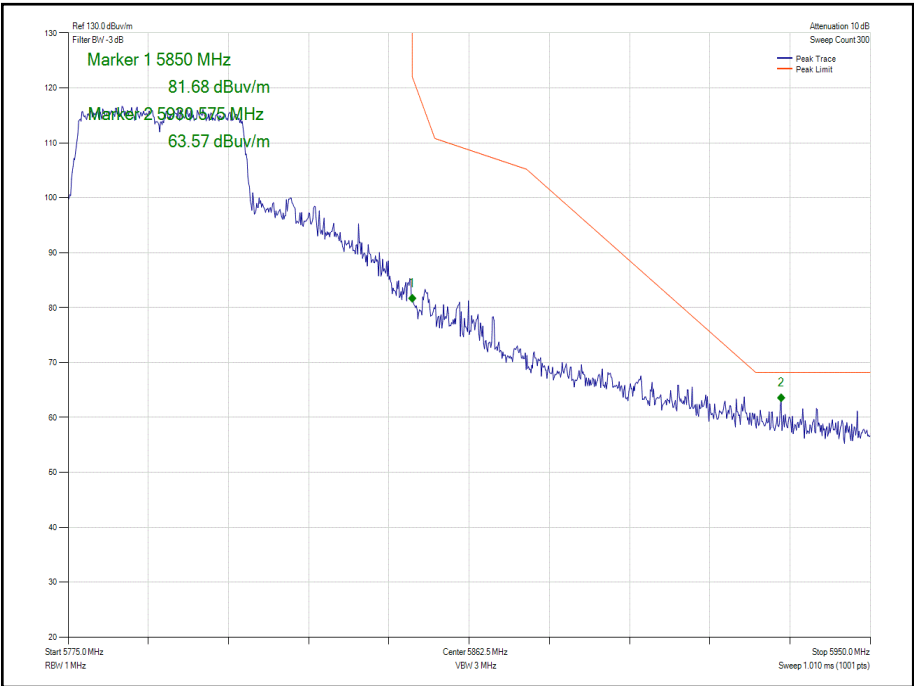


Figure 894 - 802.11n HT40 SDM Cores 0-1 - 5795MHz
Measured Frequency 5930.575 MHz

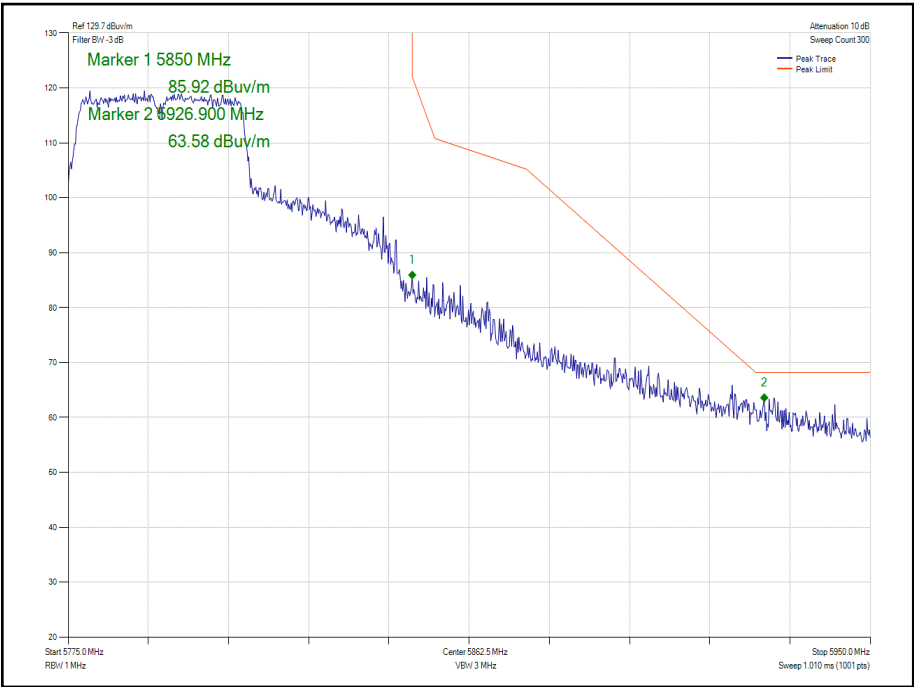


Figure 895 - 802.11ac VHT40 TxBF Cores 0-1 - 5795MHz
Measured Frequency 5926.9 MHz



Main - 40 MHz Bandwidth (3TX)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n HT40 CDD Cores 0-1-2	MCS0	5510	5464.240	59.08
802.11n HT40 SDM Cores 0-1-2	MCS0	5510	5469.760	60.01
802.11n HT40 TxBF Cores 0-1-2	MCS0	5510	5469.640	58.39
802.11n HT40 CDD Cores 0-1-2	MCS0	5670	5729.650	63.12
802.11n HT40 SDM Cores 0-1-2	MCS0	5670	5728.450	63.57
802.11n HT40 TxBF Cores 0-1-2	MCS0	5670	5725.750	57.26
802.11n HT40 CDD Cores 0-1-2	MCS0	5710	5233.920	53.30
802.11n HT40 SDM Cores 0-1-2	MCS0	5710	5234.440	54.16
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5710	5233.920	54.05
802.11n HT40 CDD Cores 0-1-2	MCS0	5710	5850.320	56.63
802.11n HT40 SDM Cores 0-1-2	MCS0	5710	5896.080	57.46
802.11n HT40 TxBF Cores 0-1-2	MCS0	5710	5864.400	57.49
802.11n HT40 CDD Cores 0-1-2	MCS0	5755	5641.800	63.19
802.11n HT40 SDM Cores 0-1-2	MCS0	5755	5654.700	66.13
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5755	5634.900	58.31
802.11n HT40 CDD Cores 0-1-2	MCS0	5795	5929.700	63.24
802.11n HT40 SDM Cores 0-1-2	MCS0	5795	5926.200	61.79
802.11ac VHT40 TxBF Cores 0-1-2	MCS0	5795	5930.750	57.51

Table 440

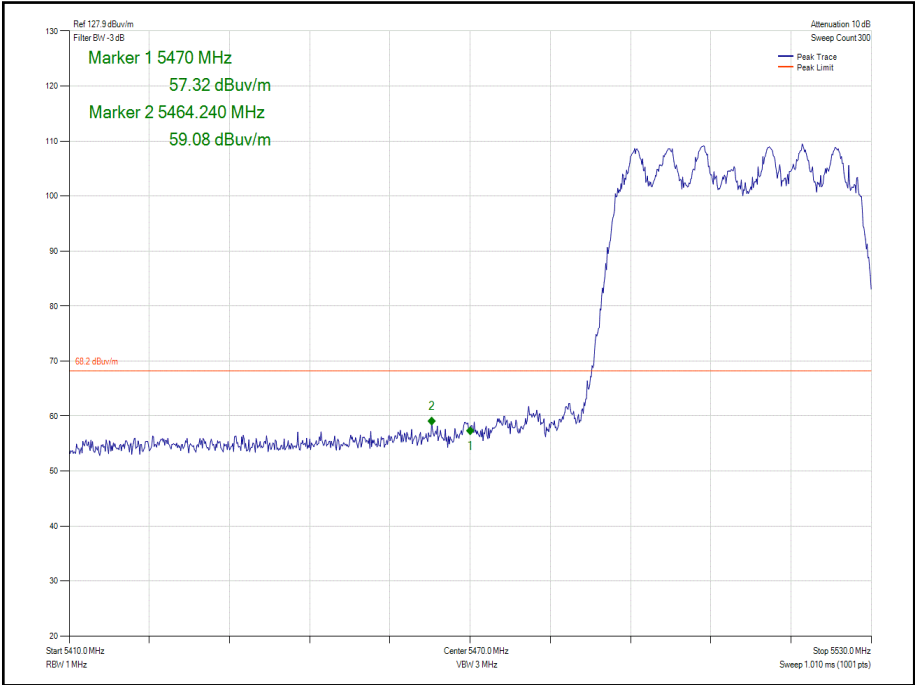


Figure 896 - 802.11n HT40 CDD Cores 0-1-2 - 5510 MHz
Measured Frequency 5464.24 MHz

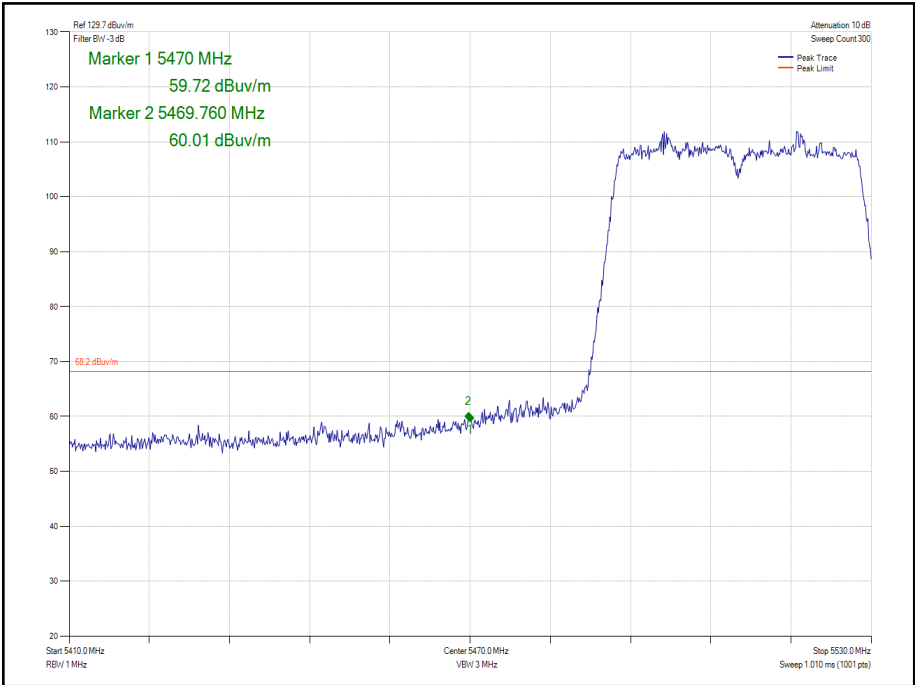


Figure 897 - 802.11n HT40 SDM Cores 0-1-2 - 5510 MHz
Measured Frequency 5469.76 MHz

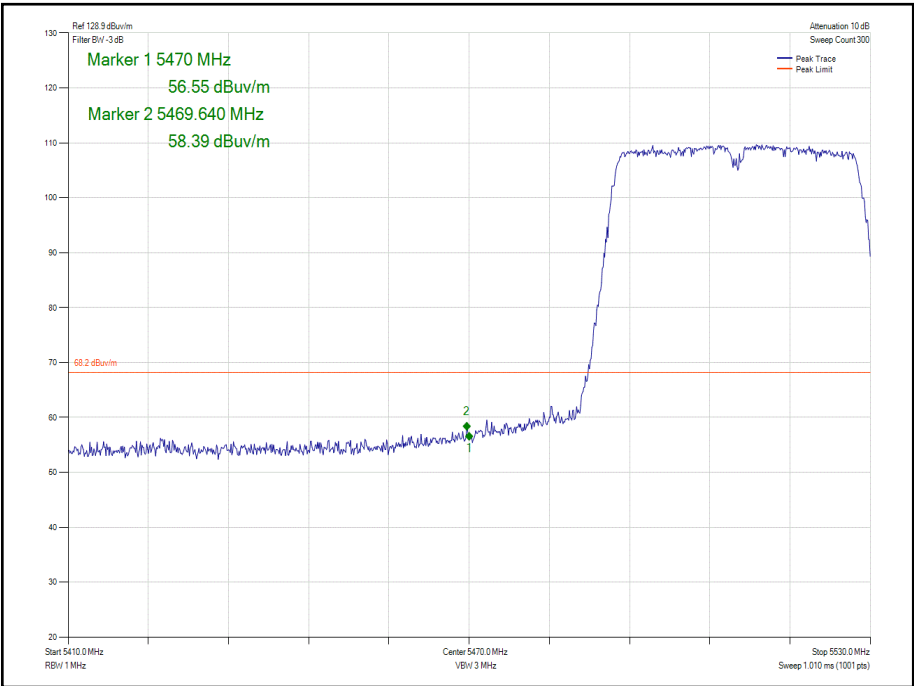


Figure 898 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5510 MHz
Measured Frequency 5469.64 MHz

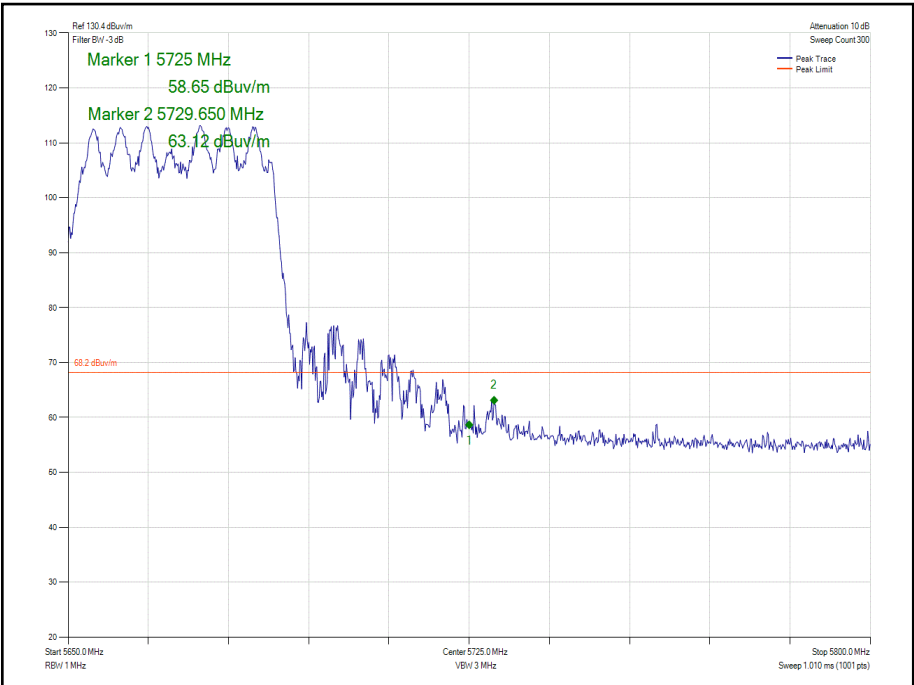


Figure 899 - 802.11n HT40 CDD Cores 0-1-2 - 5670 MHz
Measured Frequency 5729.65 MHz

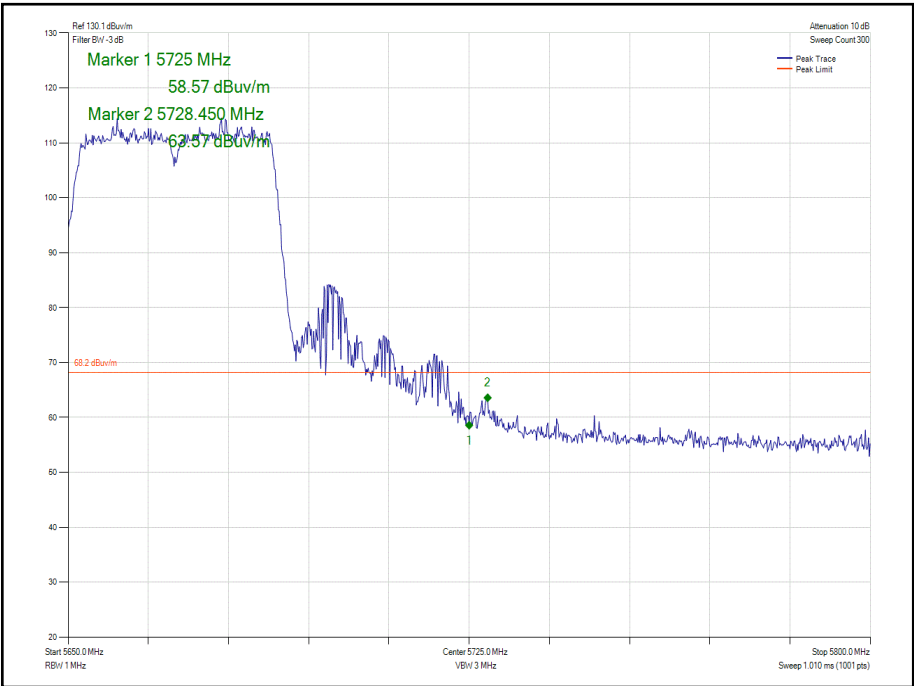


Figure 900 - 802.11n HT40 SDM Cores 0-1-2 - 5670 MHz
Measured Frequency 5728.45 MHz

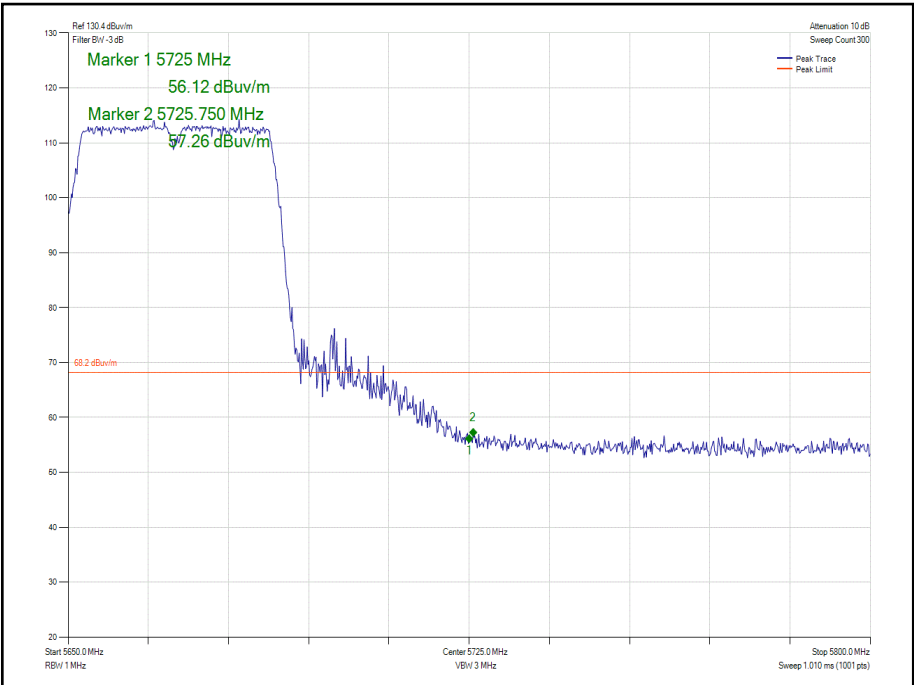


Figure 901 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5670 MHz
Measured Frequency 5725.75 MHz

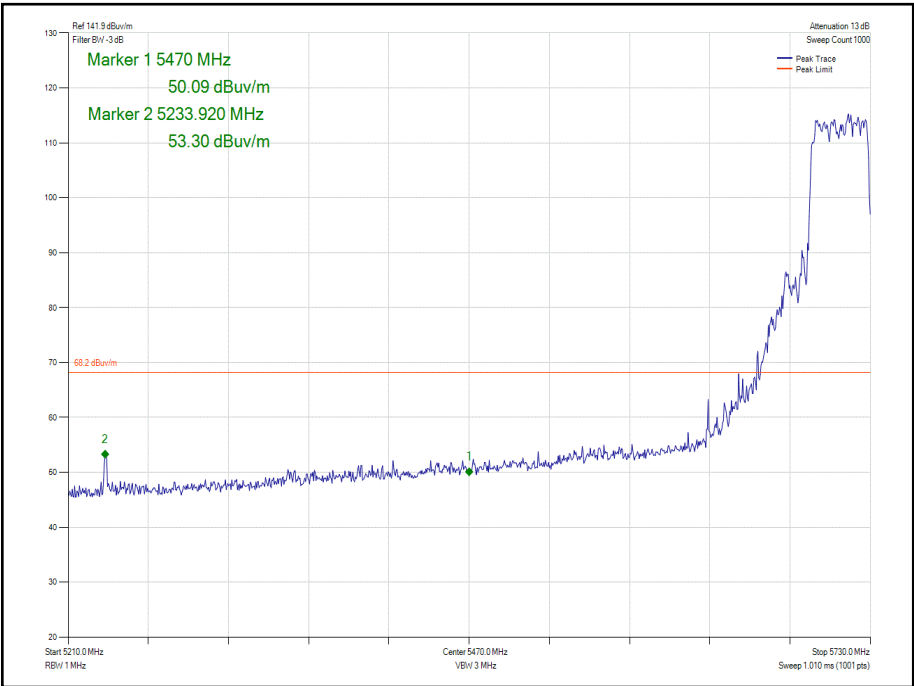


Figure 902 - 802.11n HT40 CDD Cores 0-1-2 - 5710 MHz
Measured Frequency 5233.92 MHz

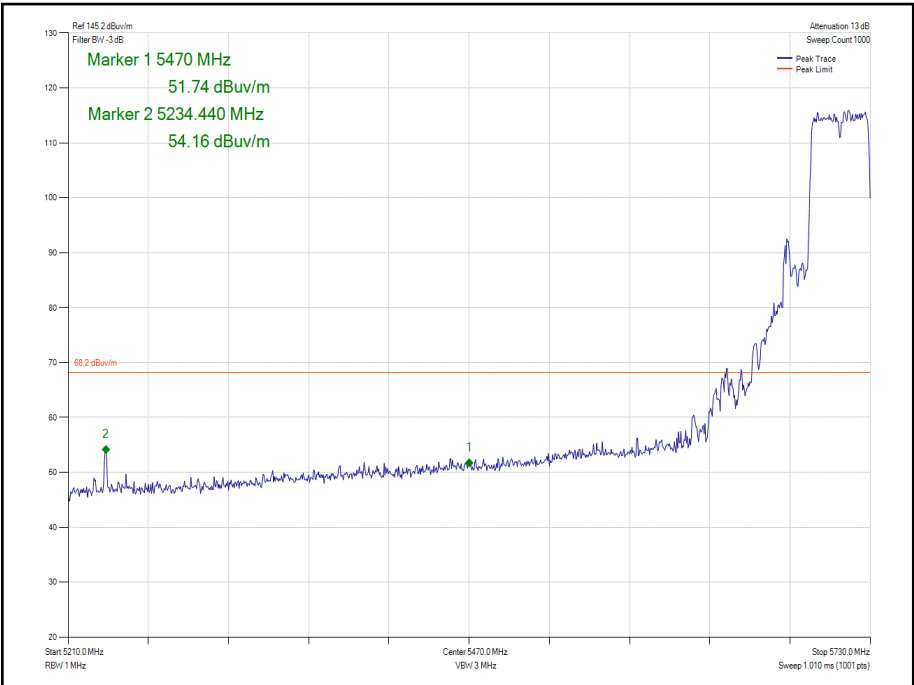


Figure 903 - 802.11n HT40 SDM Cores 0-1-2 - 5710 MHz
Measured Frequency 5234.44 MHz

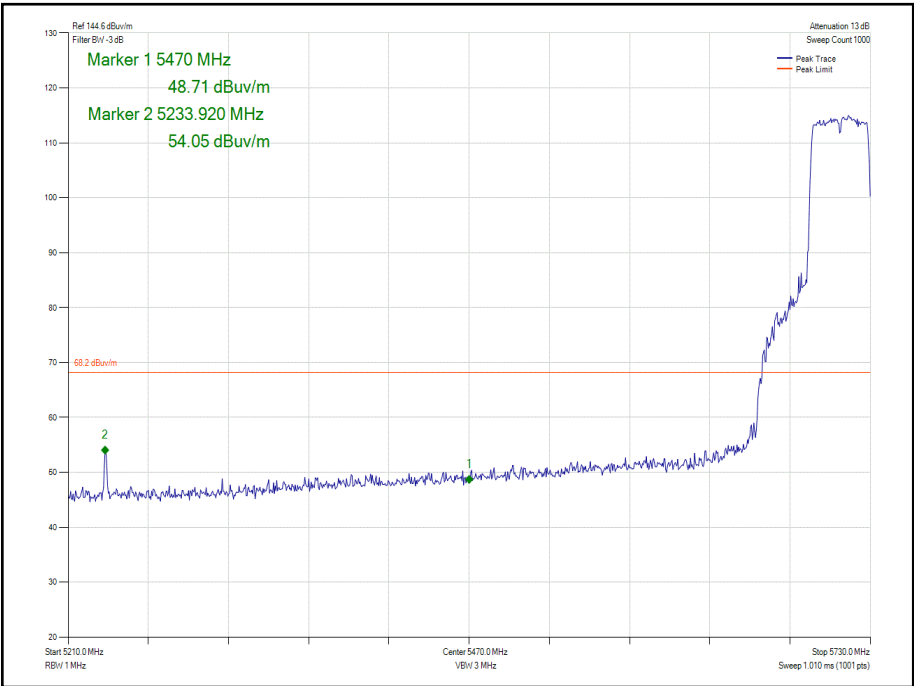


Figure 904 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5710 MHz
Measured Frequency 5233.92 MHz

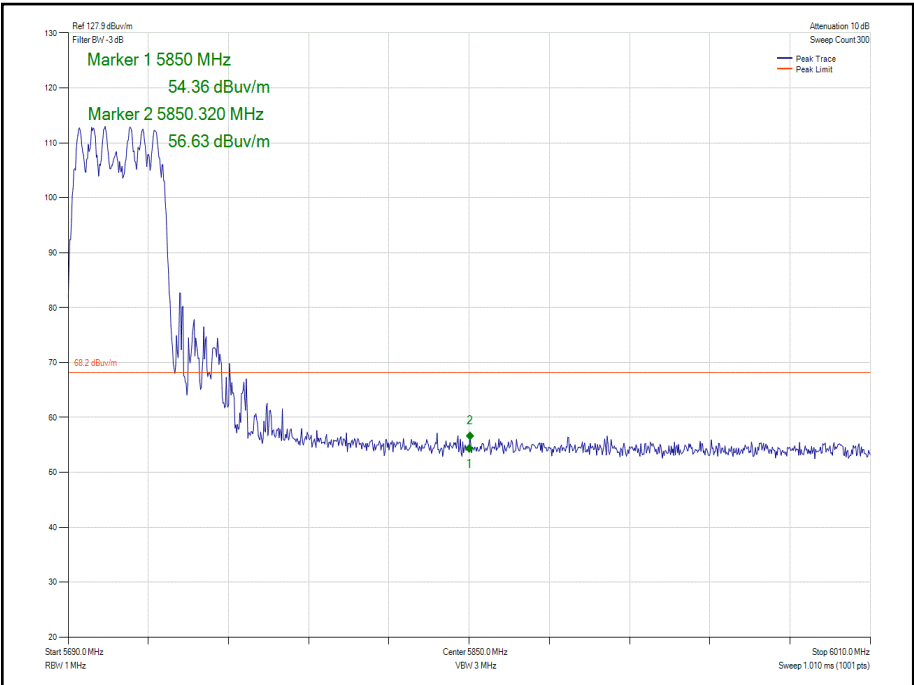


Figure 905 - 802.11n HT40 CDD Cores 0-1-2 - 5710 MHz
Measured Frequency 5850.32 MHz

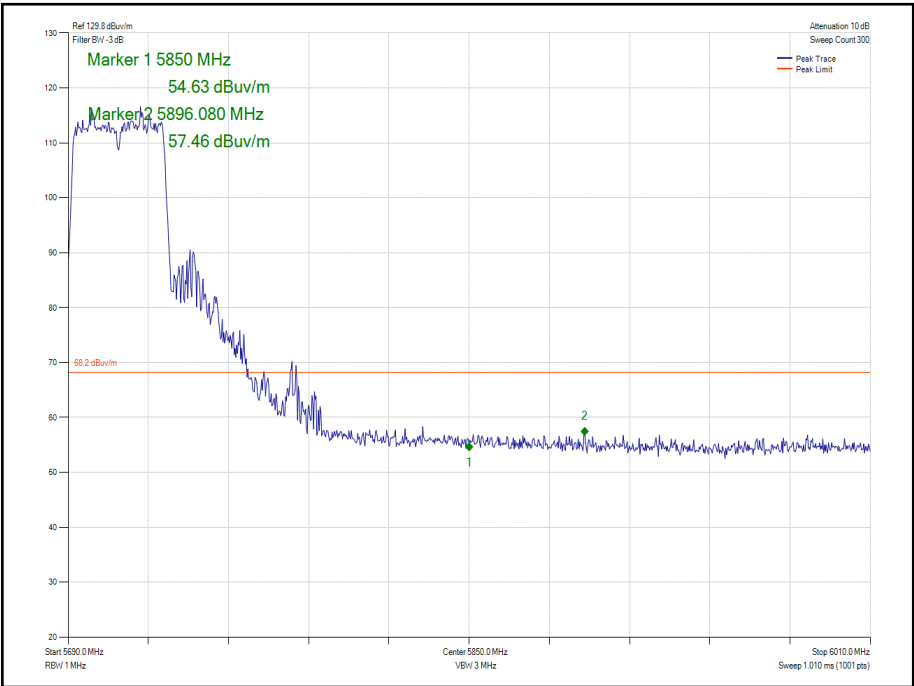


Figure 906 - 802.11n HT40 SDM Cores 0-1-2 - 5710 MHz
Measured Frequency 5896.08 MHz

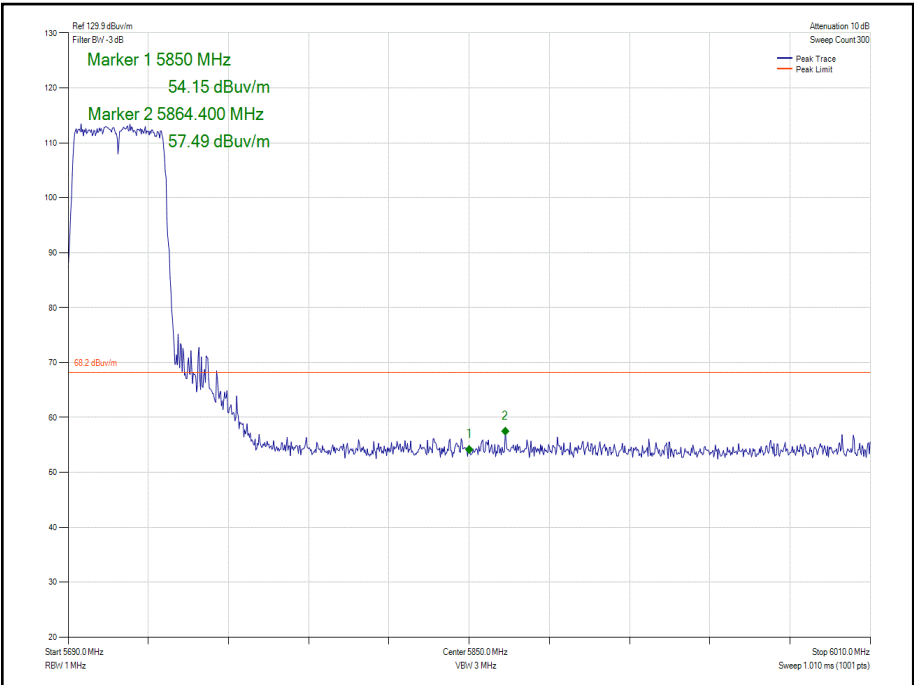


Figure 907 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5710 MHz
Measured Frequency 5864.4 MHz

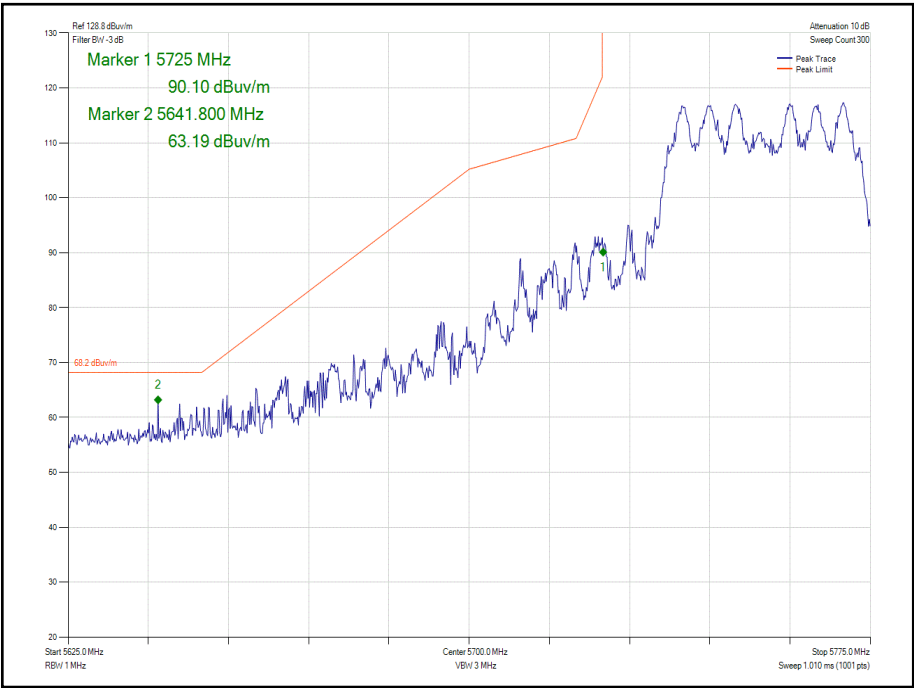


Figure 908 - 802.11n HT40 CDD Cores 0-1-2 - 5755 MHz
Measured Frequency 5641.8 MHz

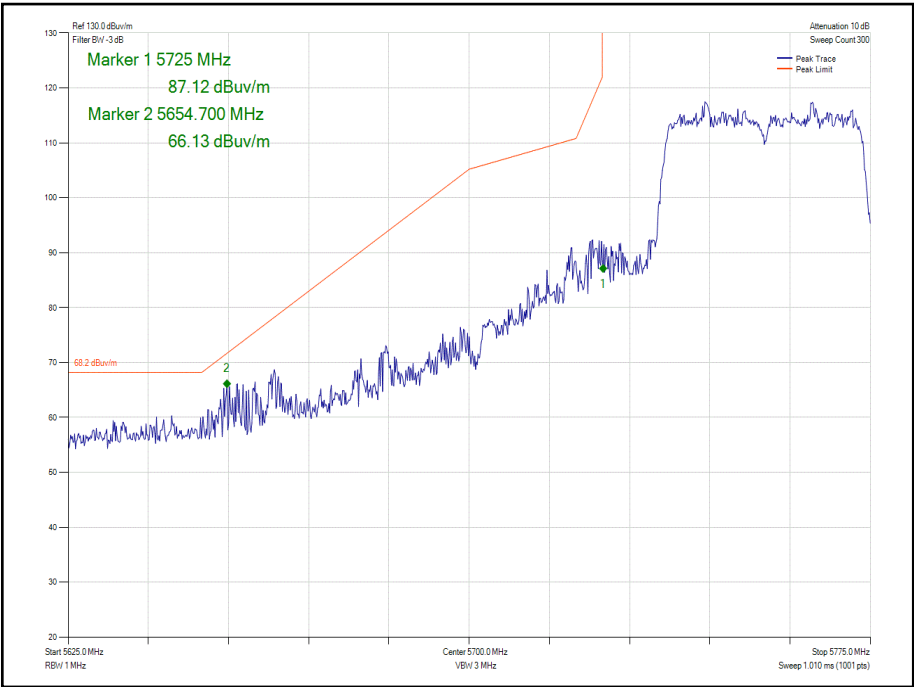


Figure 909 - 802.11n HT40 SDM Cores 0-1-2 - 5755 MHz
Measured Frequency 5654.7 MHz

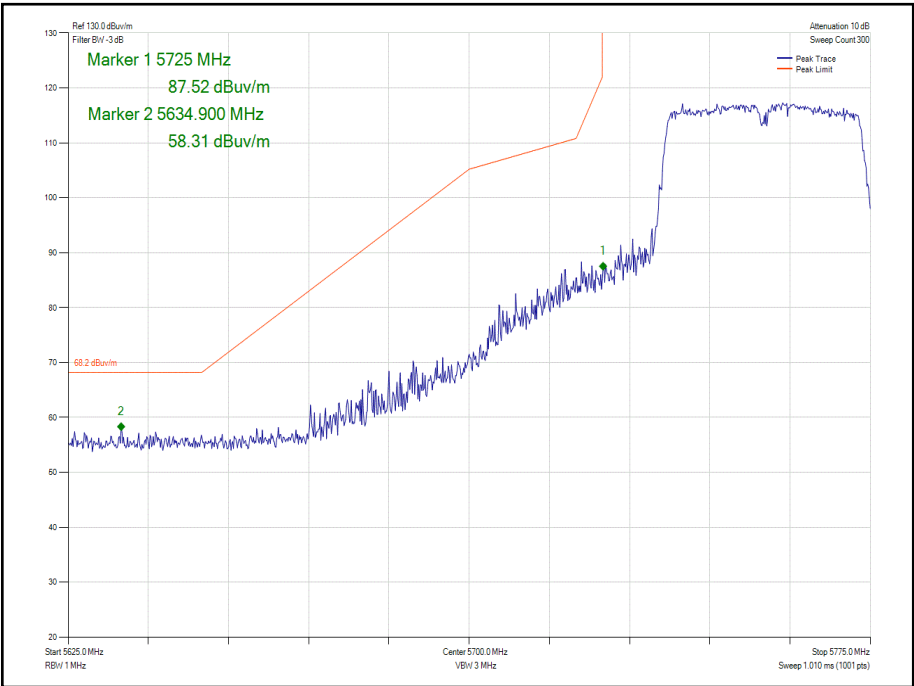


Figure 910 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5755 MHz
Measured Frequency 5634.9 MHz

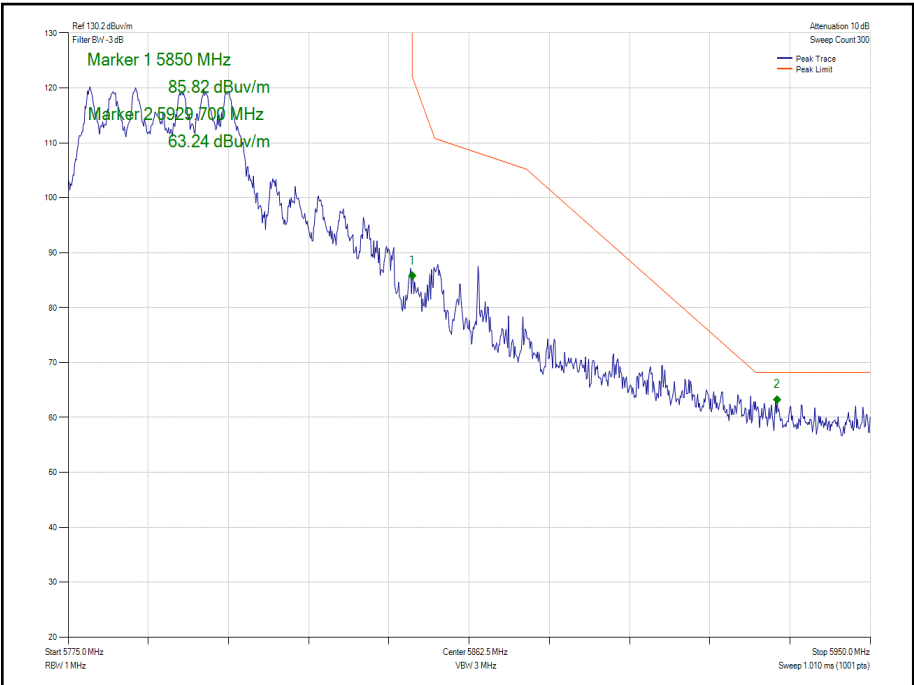


Figure 911 - 802.11n HT40 CDD Cores 0-1-2 – 5795 MHz
Measured Frequency 5929.7 MHz

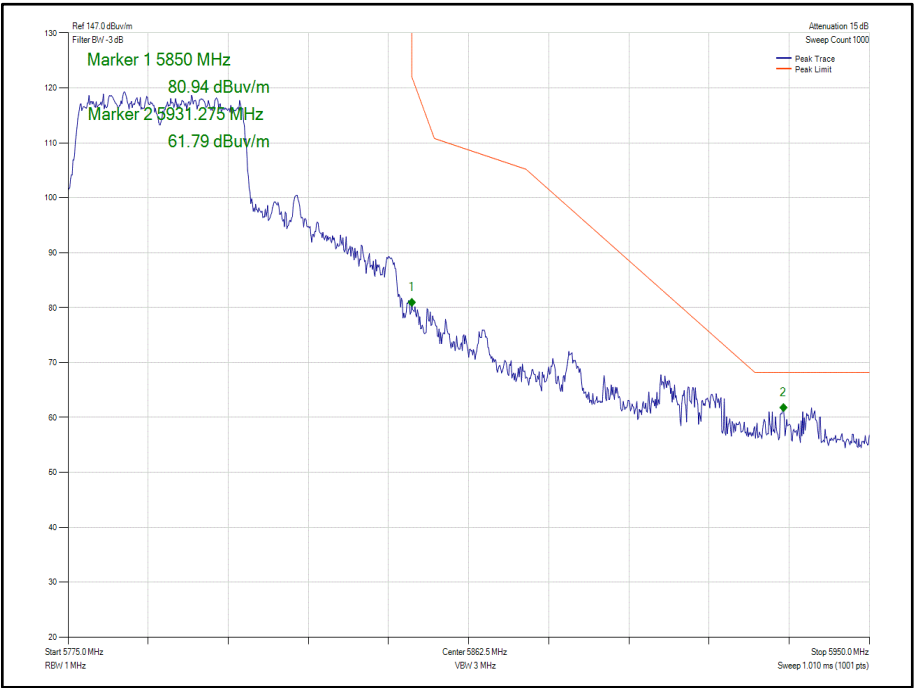


Figure 912 - 802.11n HT40 SDM Cores 0-1-2 - 5795MHz
Measured Frequency 5926.2 MHz

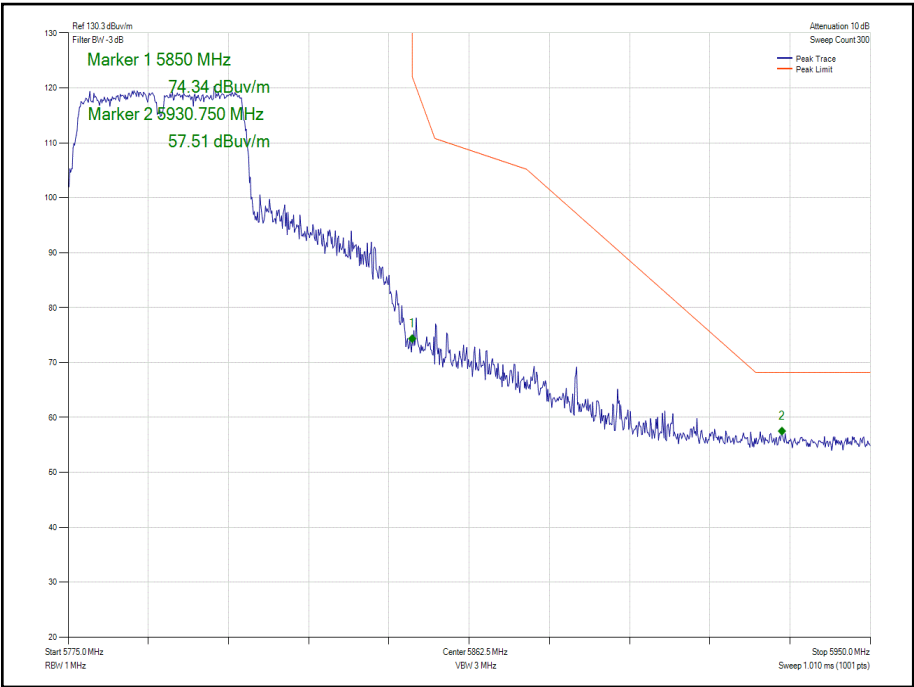


Figure 913 - 802.11ac VHT40 TxBF Cores 0-1-2 - 5795MHz
Measured Frequency 5930.75 MHz



Main - 80 MHz Bandwidth (SISO)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n VHT80 Core 0	MCS0	5530	5467.800	60.82
802.11n VHT80 Core 0	MCS0	5610	5725.620	61.60
802.11n VHT80 Core 0	MCS0	5690	5458.560	63.32
802.11n VHT80 Core 0	MCS0	5690	5850.400	61.40
802.11n VHT80 Core 0	MCS0	5775	5649.320	62.83
802.11n VHT80 Core 0	MCS0	5775	5930.730	58.17

Table 441

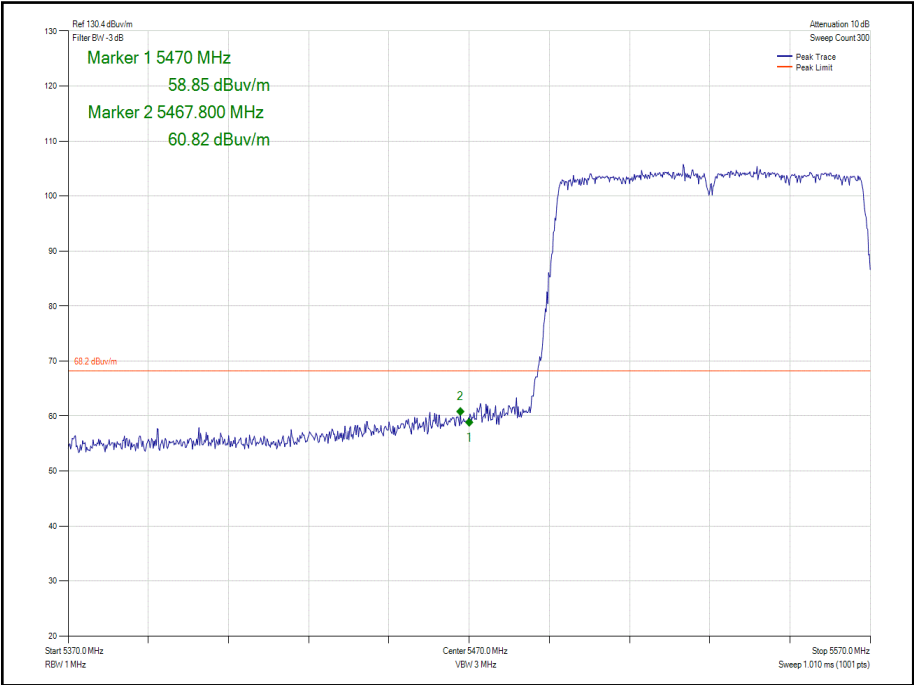


Figure 914 - 802.11n VHT80 Core 0 - 5530 MHz
Measured Frequency 5467.8 MHz

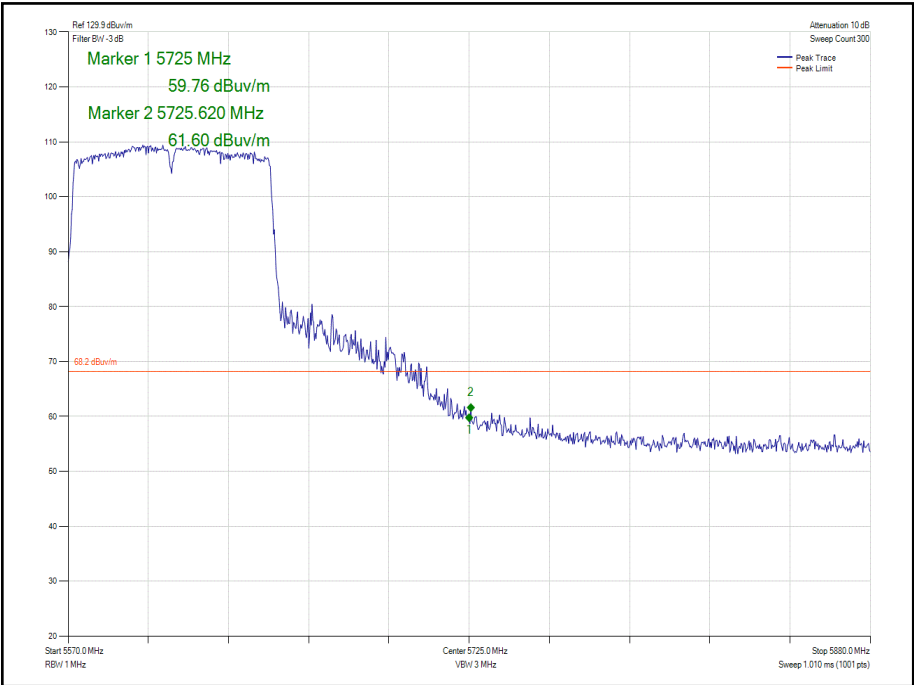


Figure 915 - 802.11n VHT80 Core 0 - 5610 MHz
Measured Frequency 5725.62 MHz

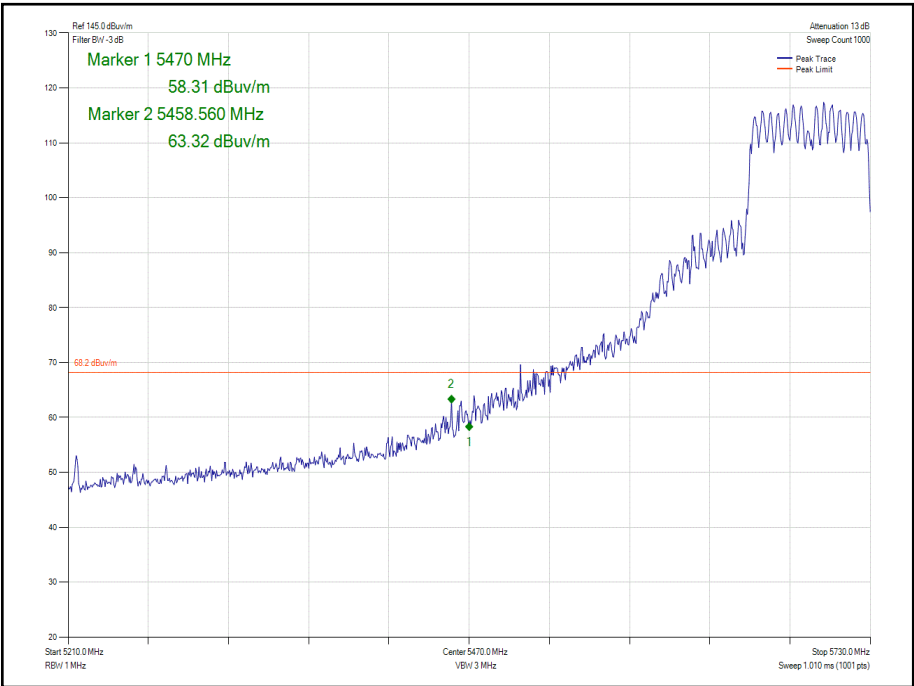


Figure 916 - 802.11n VHT80 Core 0 - 5690 MHz
Measured Frequency 5458.56 MHz

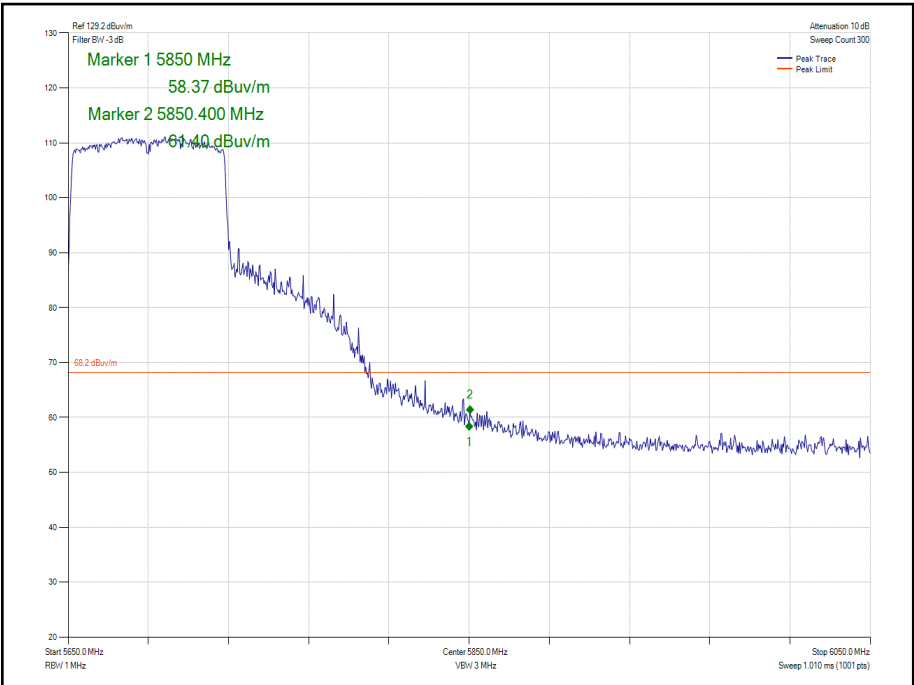


Figure 917 - 802.11n VHT80 Core 0 - 5690 MHz
Measured Frequency 5850.4 MHz

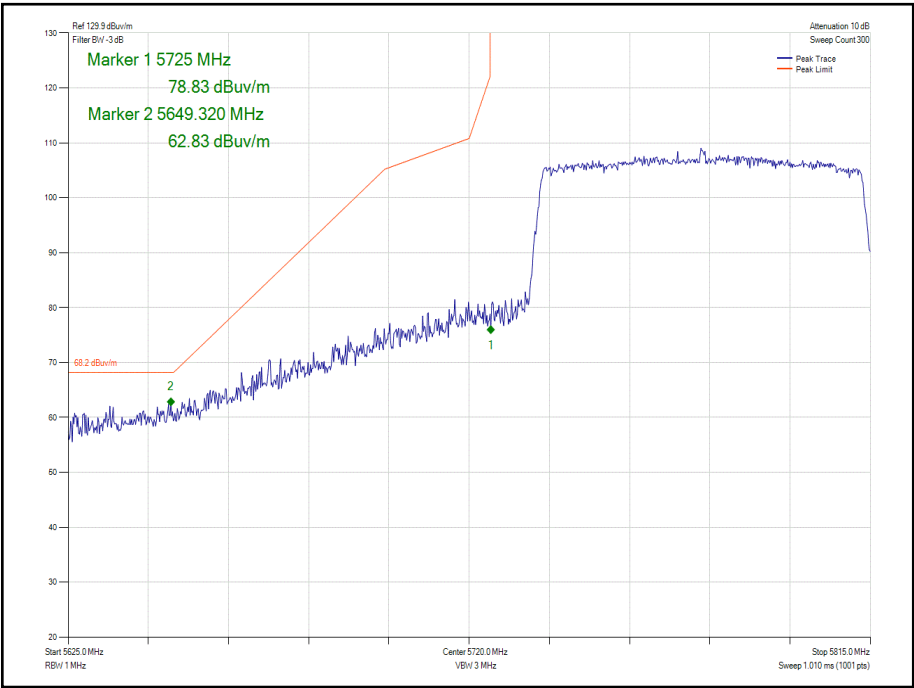


Figure 918 - 802.11n VHT80 Core 0 - 5775 MHz
Measured Frequency 5649.32 MHz

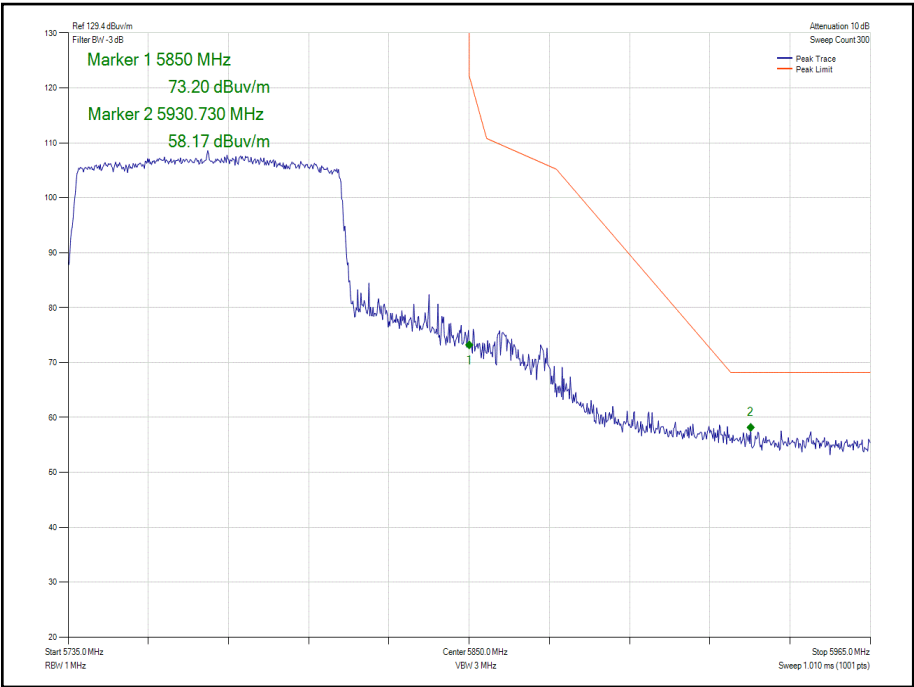


Figure 919 - 802.11n VHT80 Core 0 - 5775 MHz
Measured Frequency 5930.73 MHz



Main - 80 MHz Bandwidth (2TX)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11ac VHT80 CDD Cores 0-1	MCS0	5530	5469.000	58.19
802.11ac VHT80 SDM Cores 0-1	MCS0	5530	5433.400	58.18
802.11ac VHT80 TxBF Cores 0-1	MCS0	5530	5465.000	57.75
802.11ac VHT80 CDD Cores 0-1	MCS0	5610	5725.000	61.32
802.11ac VHT80 SDM Cores 0-1	MCS0	5610	5731.200	63.72
802.11ac VHT80 TxBF Cores 0-1	MCS0	5610	5725.000	62.51
802.11ac VHT80 CDD Cores 0-1	MCS0	5690	5468.960	52.89
802.11ac VHT80 SDM Cores 0-1	MCS0	5690	5468.960	56.17
802.11ac VHT80 TxBF Cores 0-1	MCS0	5690	5461.680	57.94
802.11ac VHT80 CDD Cores 0-1	MCS0	5690	5890.400	57.74
802.11ac VHT80 SDM Cores 0-1	MCS0	5690	5854.000	59.43
802.11ac VHT80 TxBF Cores 0-1	MCS0	5690	5859.200	59.36
802.11ac VHT80 CDD Cores 0-1	MCS0	5775	5640.770	63.10
802.11ac VHT80 SDM Cores 0-1	MCS0	5775	5636.970	63.66
802.11ac VHT80 TxBF Cores 0-1	MCS0	5775	5646.850	61.55
802.11ac VHT80 CDD Cores 0-1	MCS0	5775	5939.010	59.51
802.11ac VHT80 SDM Cores 0-1	MCS0	5775	5925.670	58.59
802.11ac VHT80 TxBF Cores 0-1	MCS0	5775	5933.490	57.07

Table 442

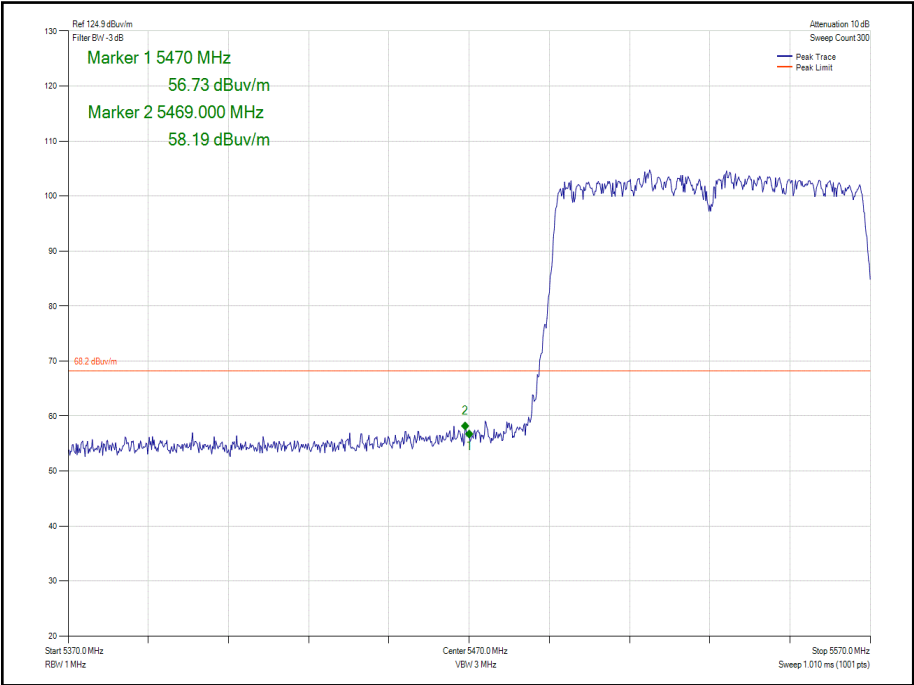


Figure 920 - 802.11ac VHT80 CDD Cores 0-1 - 5530 MHz
Measured Frequency 5469 MHz

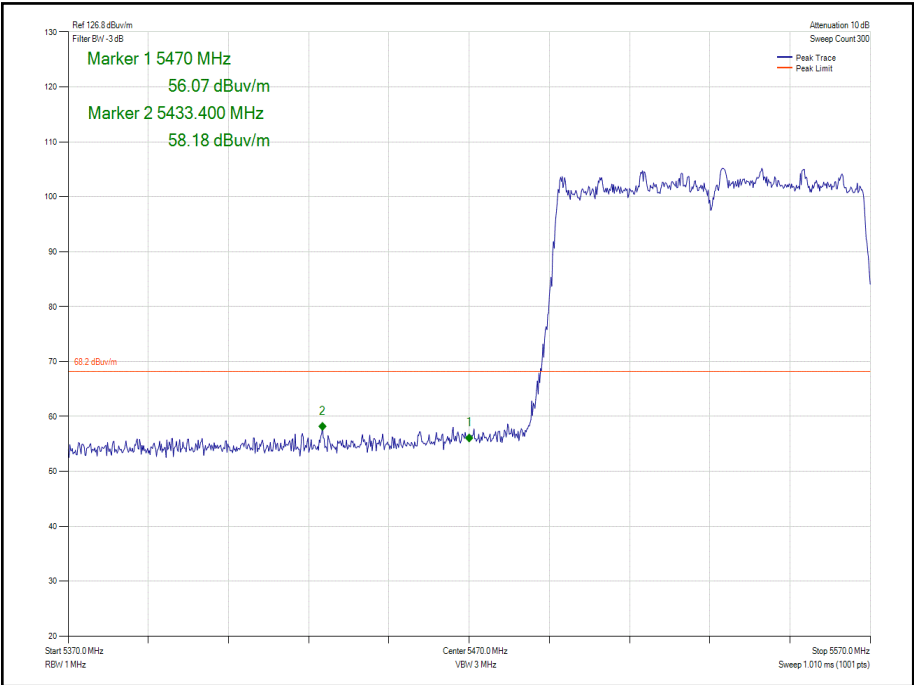


Figure 921 - 802.11ac VHT80 SDM Cores 0-1 - 5530 MHz
Measured Frequency 5433.4 MHz

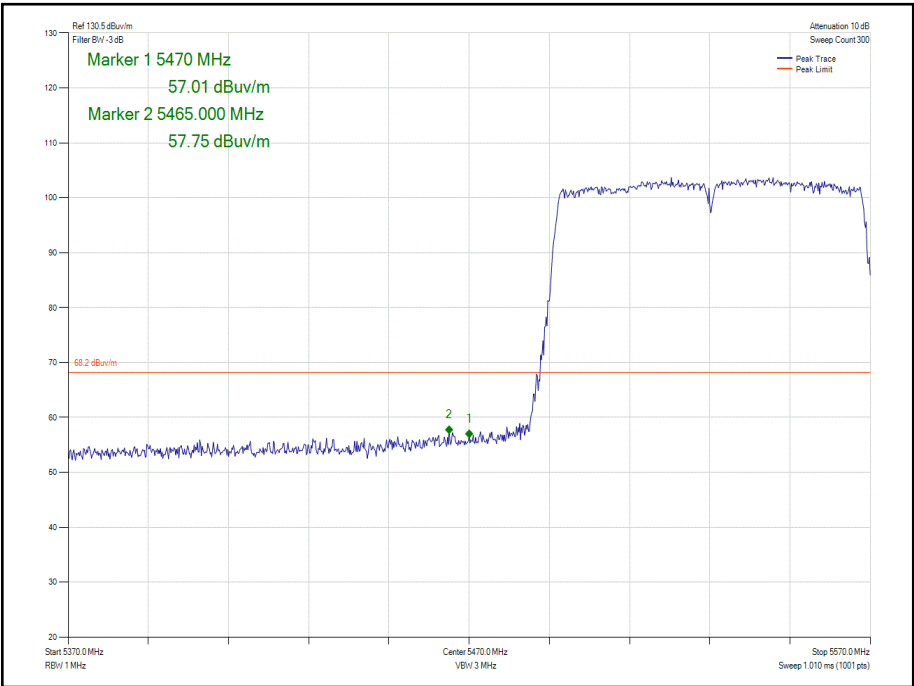


Figure 922 - 802.11ac VHT80 TxBF Cores 0-1 - 5530 MHz
Measured Frequency 5465 MHz

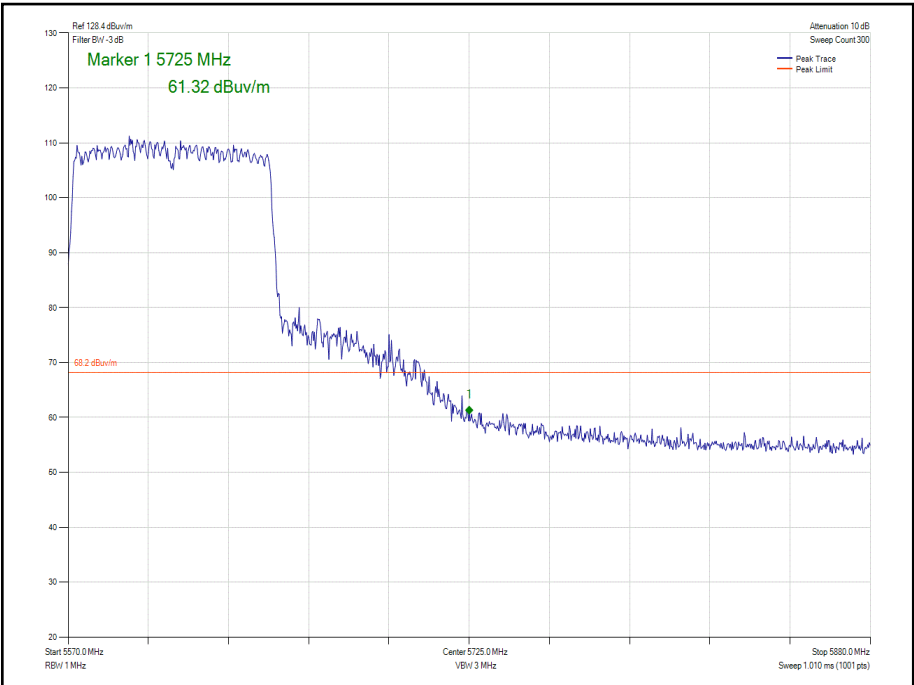


Figure 923 - 802.11ac VHT80 CDD Cores 0-1 - 5610 MHz
Measured Frequency 5725 MHz

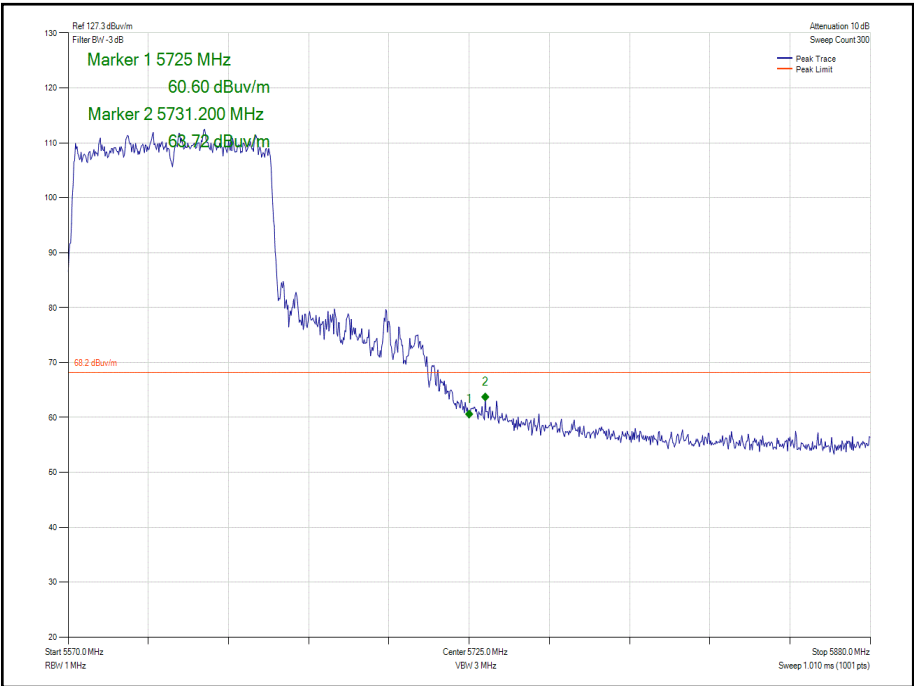


Figure 924 - 802.11ac VHT80 SDM Cores 0-1 - 5610 MHz
Measured Frequency 5731.2 MHz

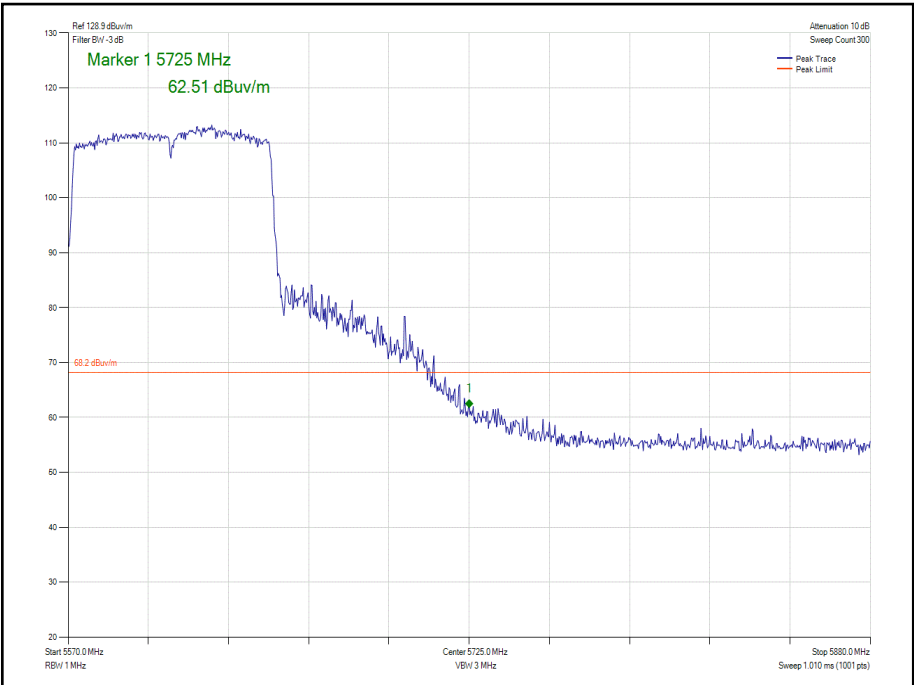


Figure 925 - 802.11ac VHT80 TxBF Cores 0-1 - 5610 MHz
Measured Frequency 5725 MHz

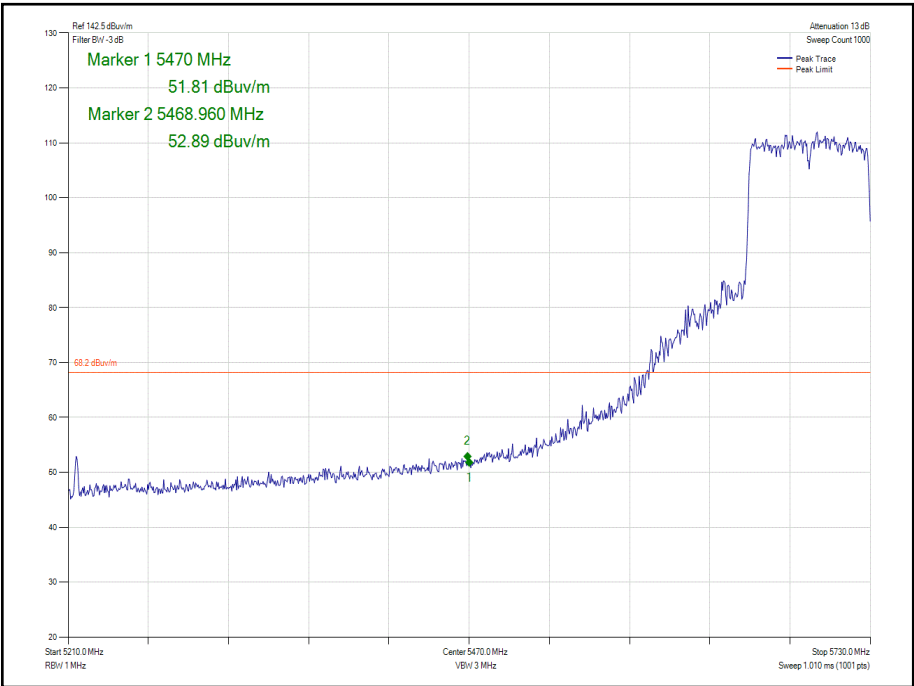


Figure 926 - 802.11ac VHT80 CDD Cores 0-1 - 5690 MHz
Measured Frequency 5468.96 MHz

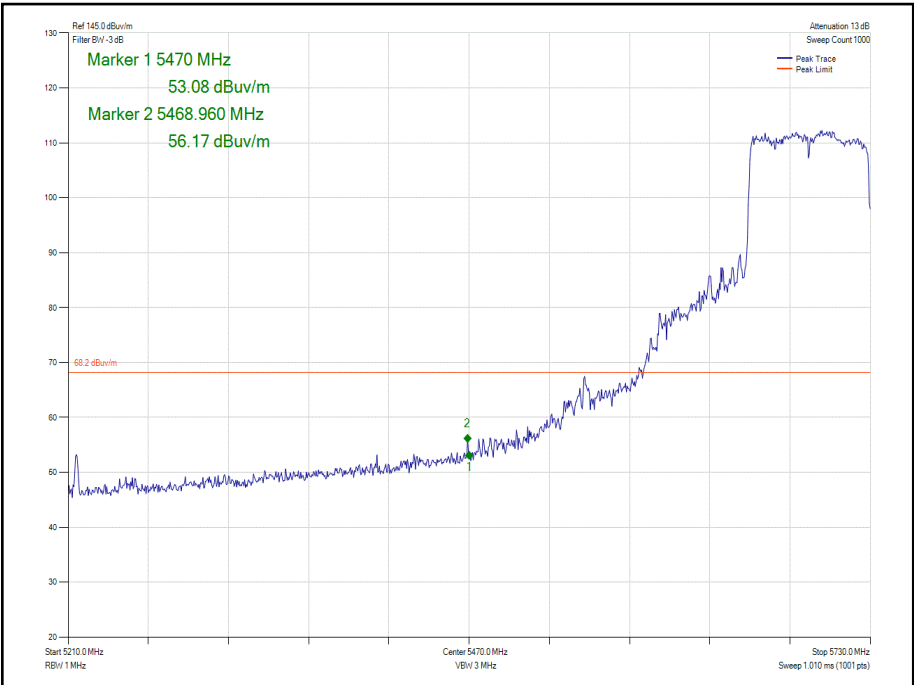


Figure 927 - 802.11ac VHT80 SDM Cores 0-1 - 5690 MHz
Measured Frequency 5468.96 MHz

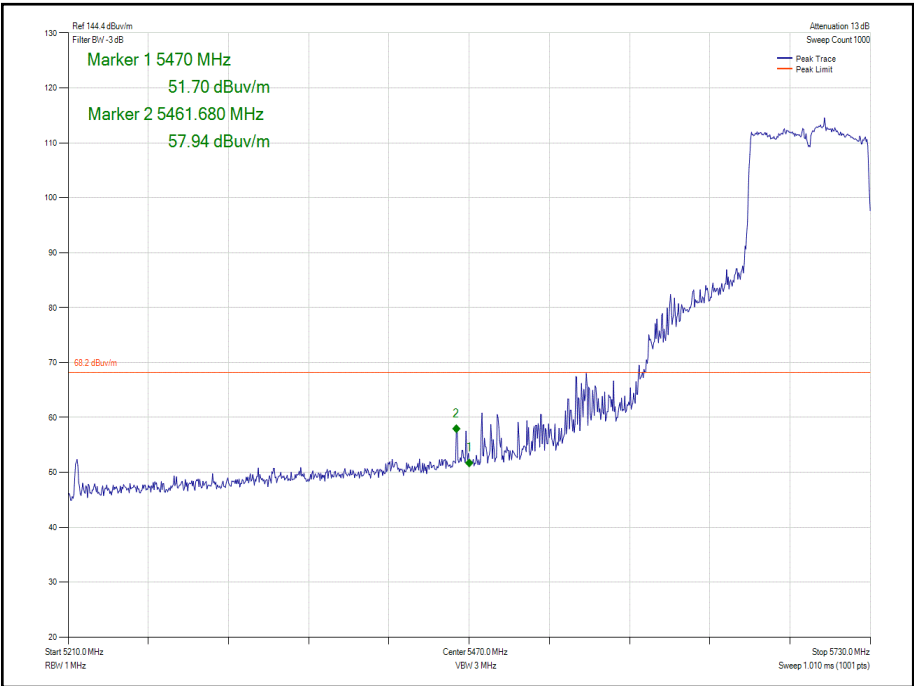


Figure 928 - 802.11ac VHT80 TxBF Cores 0-1 - 5690 MHz
Measured Frequency 5461.68 MHz

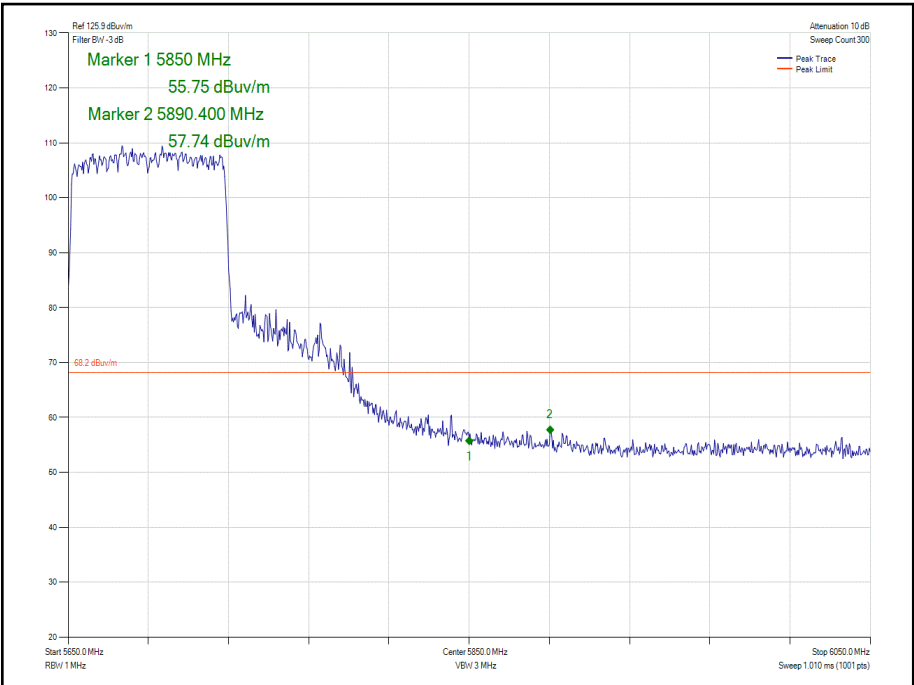


Figure 929 - 802.11ac VHT80 CDD Cores 0-1 - 5690 MHz
Measured Frequency 5890.4 MHz

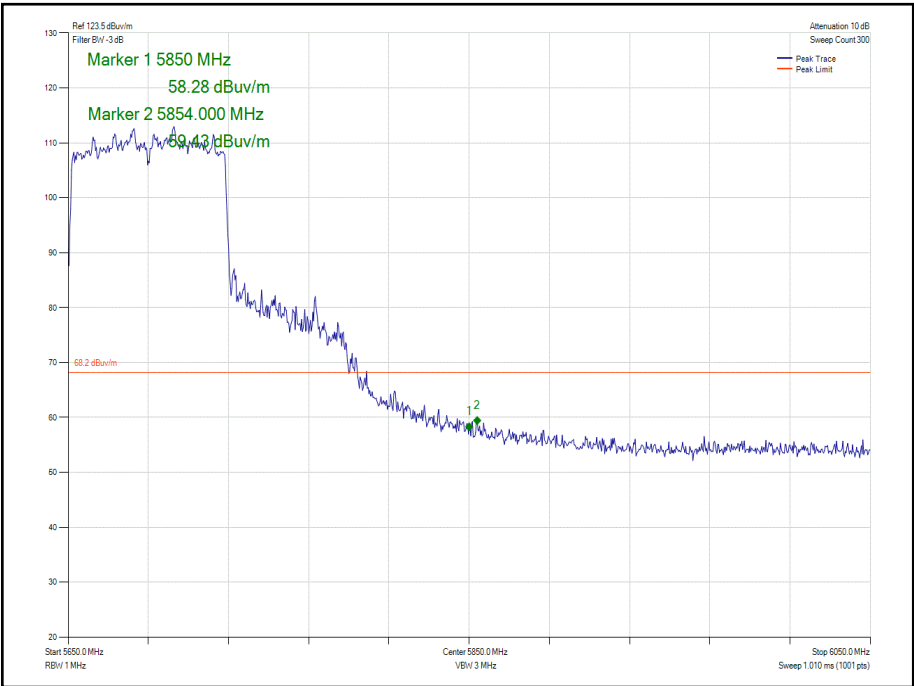


Figure 930 - 802.11ac VHT80 SDM Cores 0-1 - 5690 MHz
Measured Frequency 5854 MHz

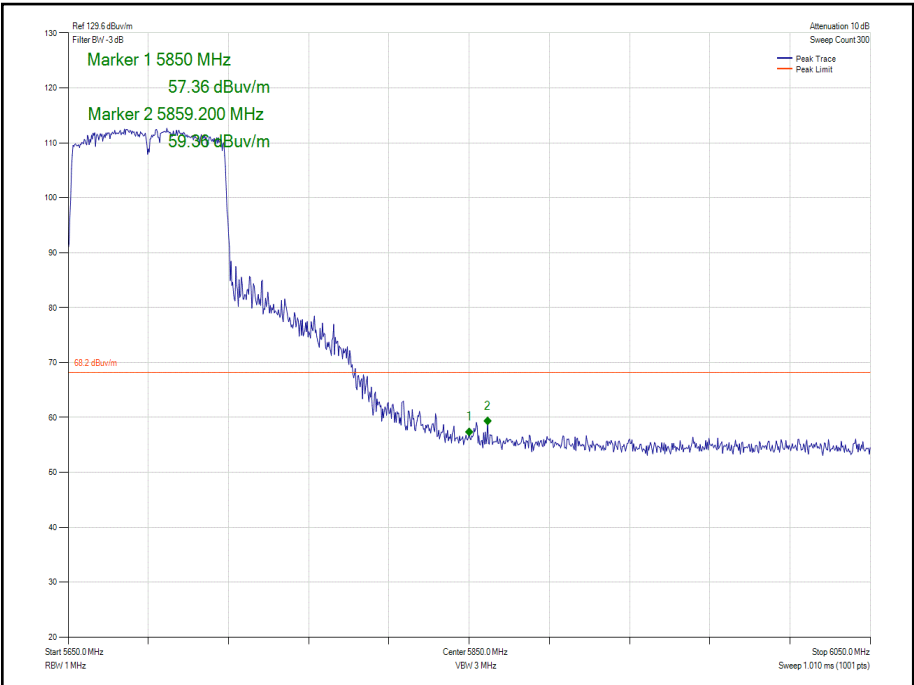


Figure 931 - 802.11ac VHT80 TxBF Cores 0-1 - 5690 MHz
Measured Frequency 5859.2 MHz

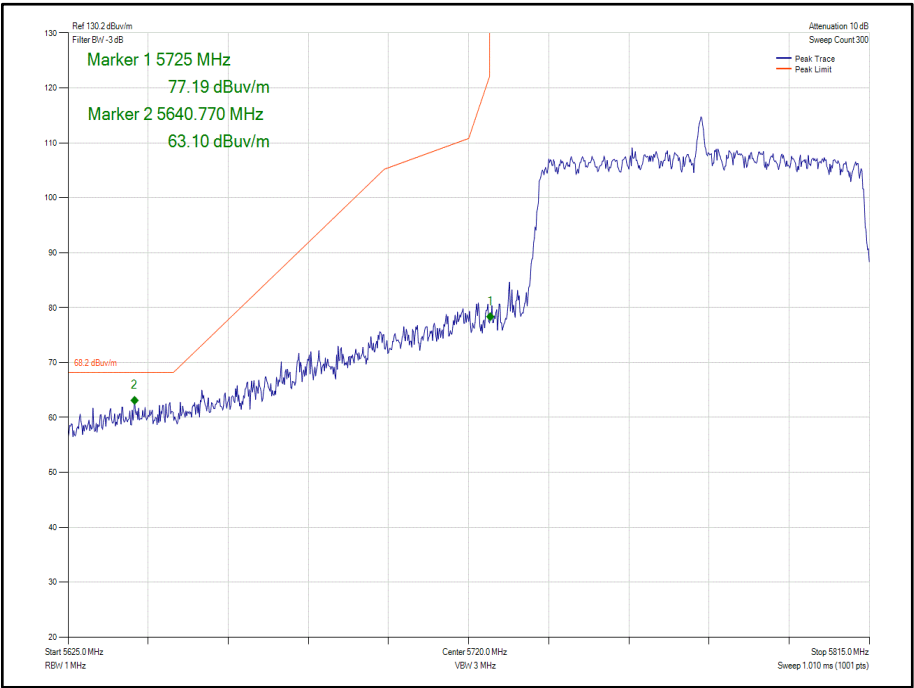


Figure 932 - 802.11ac VHT80 CDD Cores 0-1 - 5775 MHz
Measured Frequency 5640.770 MHz

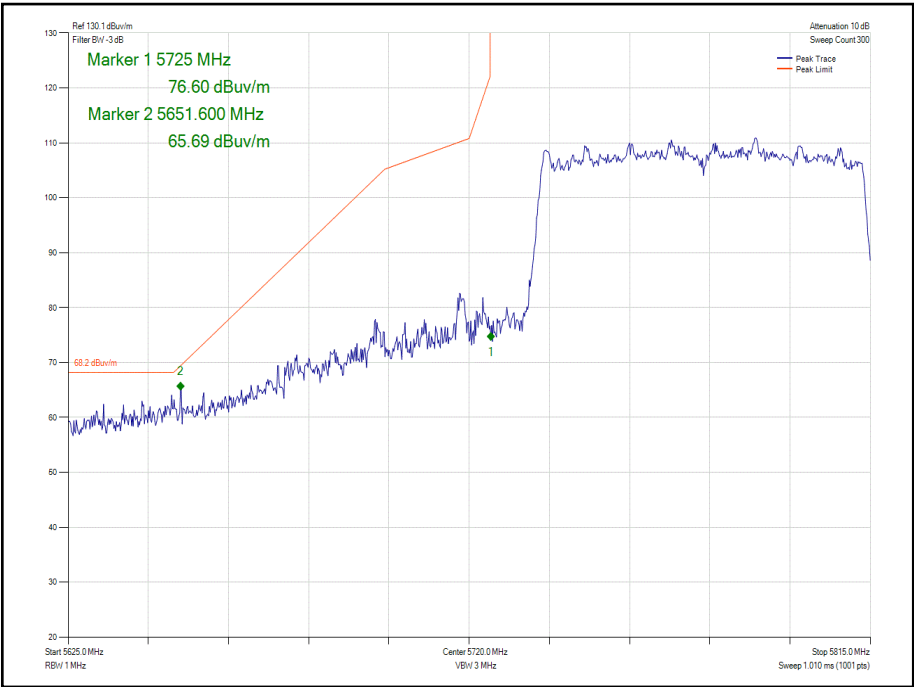


Figure 933 - 802.11ac VHT80 SDM Cores 0-1 - 5775 MHz
Measured Frequency 5636.97 MHz

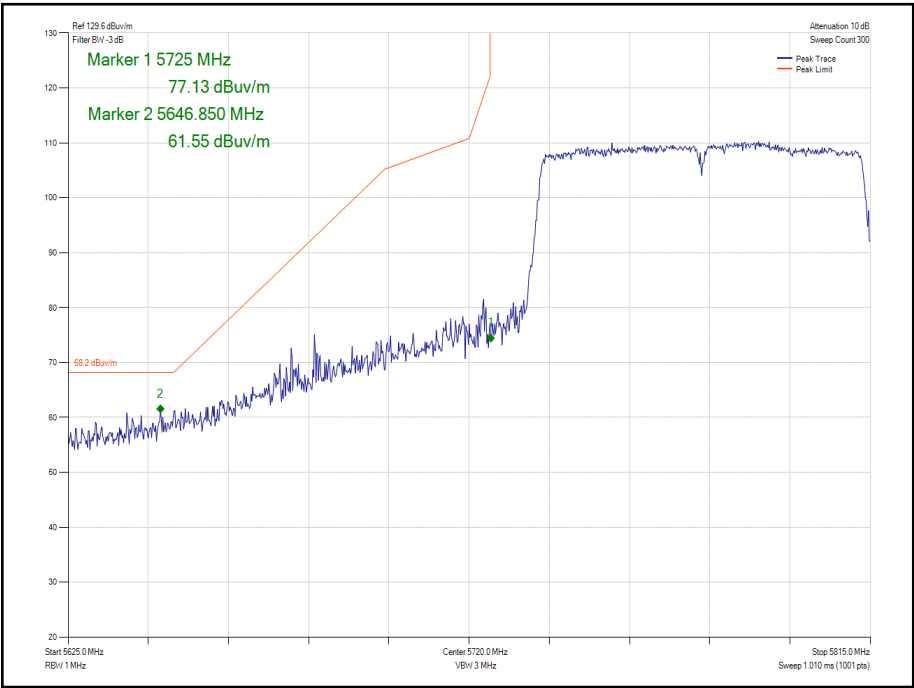


Figure 934 - 802.11ac VHT80 TxBF Cores 0-1 - 5775 MHz
Measured Frequency 5646.85 MHz

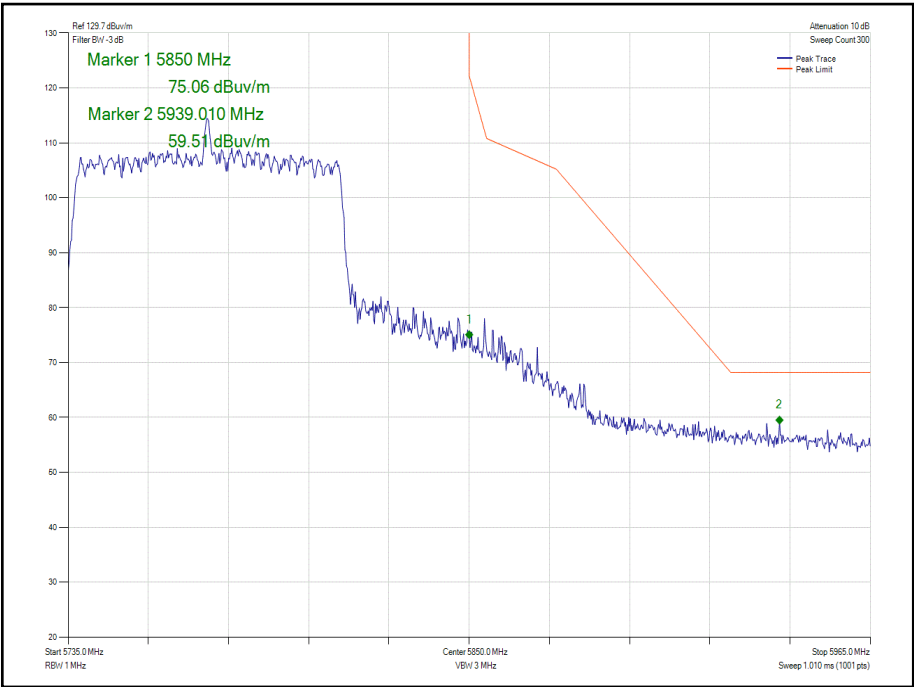


Figure 935 - 802.11ac VHT80 CDD Cores 0-1 - 5775 MHz
Measured Frequency 5939.01 MHz

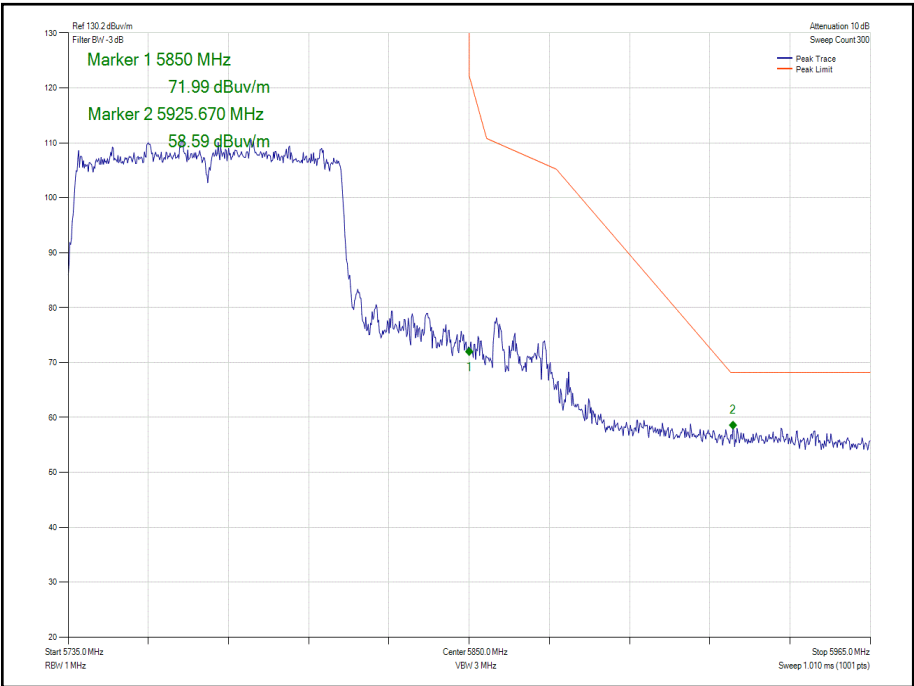


Figure 936 - 802.11ac VHT80 SDM Cores 0-1 - 5775 MHz
Measured Frequency 5925.67 MHz

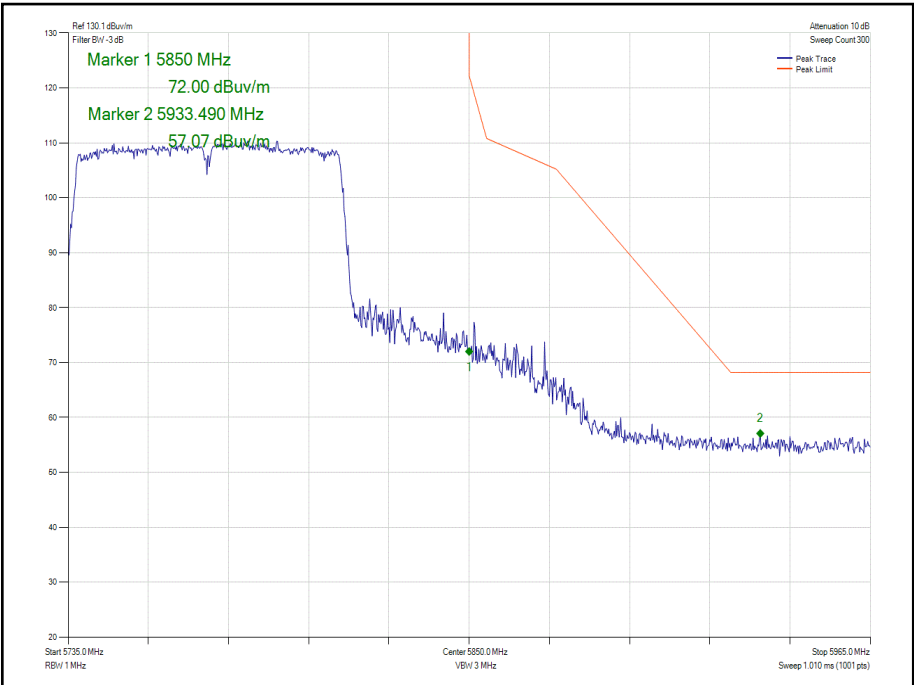


Figure 937 - 802.11ac VHT80 TxBF Cores 0-1 - 5775 MHz
Measured Frequency 5933.49 MHz



Main - 80 MHz Bandwidth (3TX)

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11ac VHT80 CDD Cores 0-1-2	MCS0	5530	5466.600	57.69
802.11ac VHT80 SDM Cores 0-1-2	MCS0	5530	5461.000	58.17
802.11ac VHT80 TxBF Cores 0-1-2	MCS0	5530	5446.600	58.21
802.11ac VHT80 CDD Cores 0-1-2	MCS0	5610	5725.000	59.39
802.11ac VHT80 SDM Cores 0-1-2	MCS0	5610	5725.310	62.25
802.11ac VHT80 TxBF Cores 0-1-2	MCS0	5610	5766.230	57.67
802.11n VHT80 CDD Cores 0-1-2	MCS0	5690	5466.360	53.43
802.11n VHT80 SDM Cores 0-1-2	MCS0	5690	5464.280	55.71
802.11n VHT80 TxBF Cores 0-1-2	MCS0	5690	5215.200	53.81
802.11ac VHT80 CDD Cores 0-1-2	MCS0	5690	5880.000	57.81
802.11ac VHT80 SDM Cores 0-1-2	MCS0	5690	5875.200	59.13
802.11ac VHT80 TxBF Cores 0-1-2	MCS0	5690	5879.600	56.93
802.11ac VHT80 CDD Cores 0-1-2	MCS0	5775	5645.140	61.76
802.11ac VHT80 SDM Cores 0-1-2	MCS0	5775	5642.100	64.11
802.11ac VHT80 TxBF Cores 0-1-2	MCS0	5775	5632.980	60.53
802.11ac VHT80 CDD Cores 0-1-2	MCS0	5775	5956.260	58.12
802.11ac VHT80 SDM Cores 0-1-2	MCS0	5775	5933.720	59.05
802.11ac VHT80 TxBF Cores 0-1-2	MCS0	5775	5965.000	56.96

Table 443

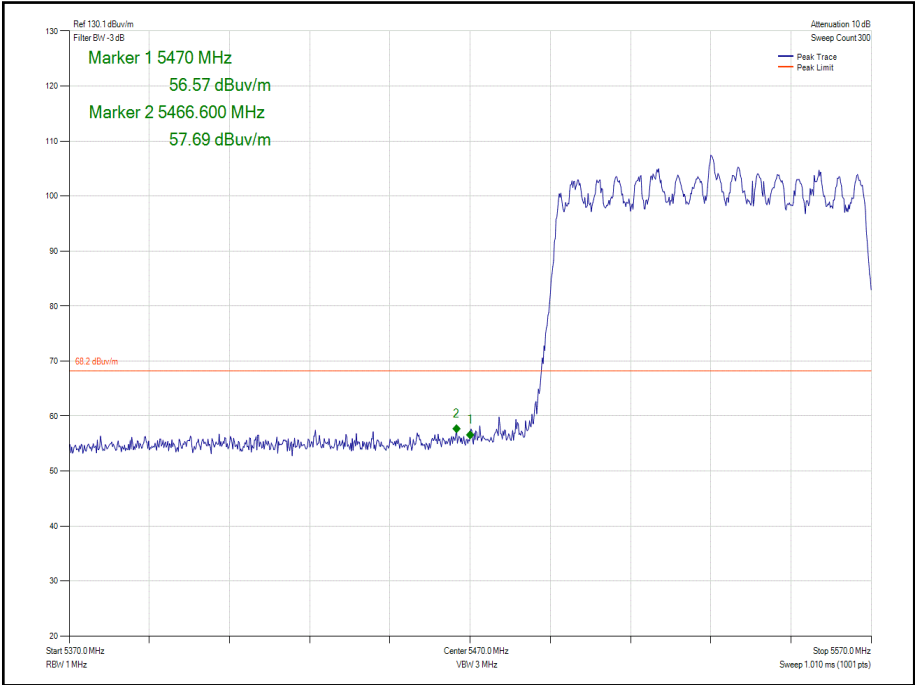


Figure 938 - 802.11ac VHT80 CDD Cores 0-1-2 - 5530 MHz
Measured Frequency 5466.6 MHz

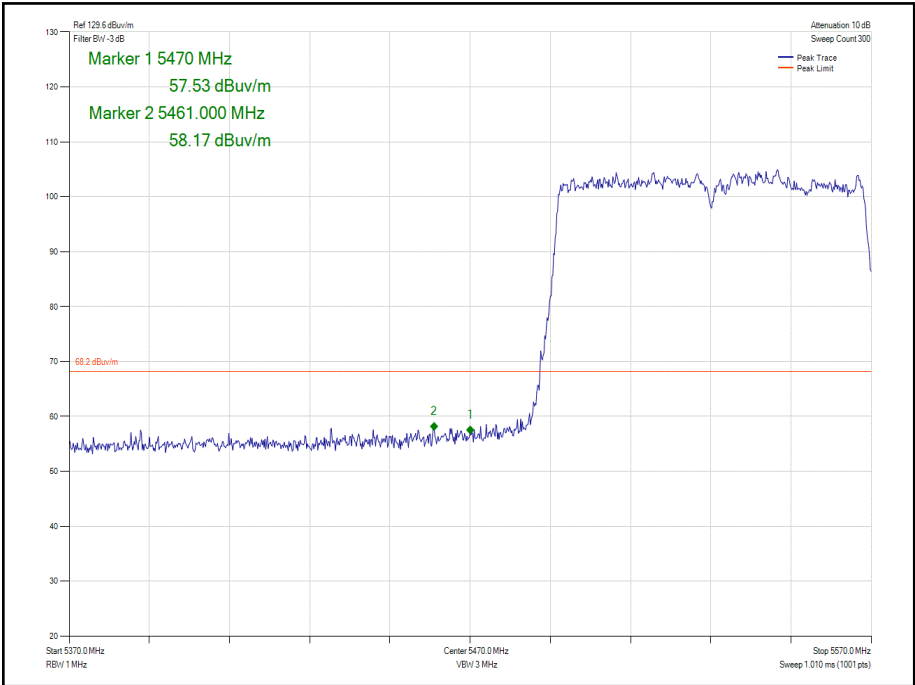


Figure 939 - 802.11ac VHT80 SDM Cores 0-1-2 - 5530 MHz
Measured Frequency 5461 MHz

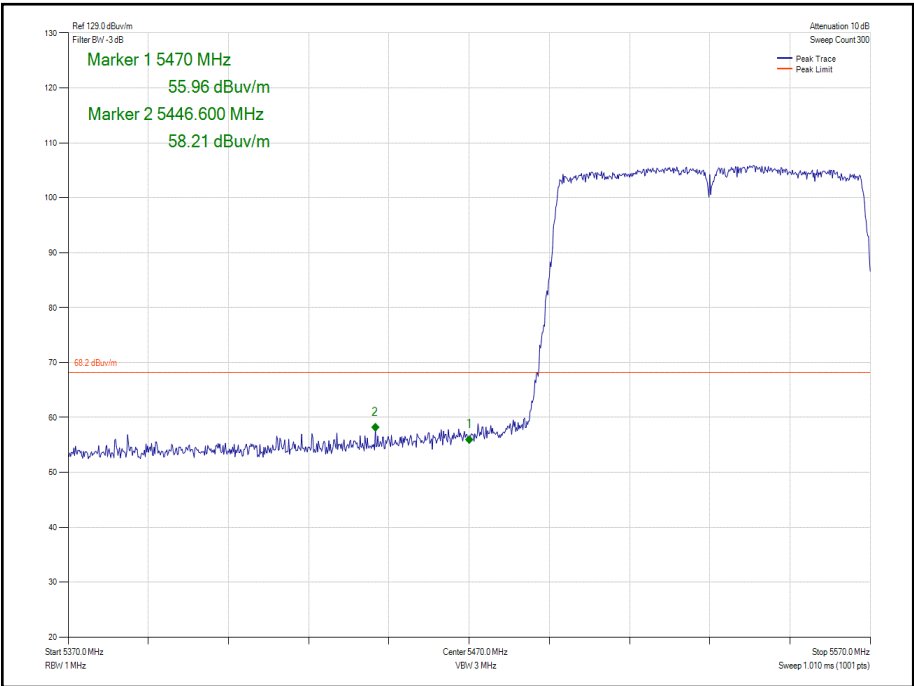


Figure 940 - 802.11ac VHT80 TxBF Cores 0-1-2 - 5530 MHz
Measured Frequency 5446.6 MHz

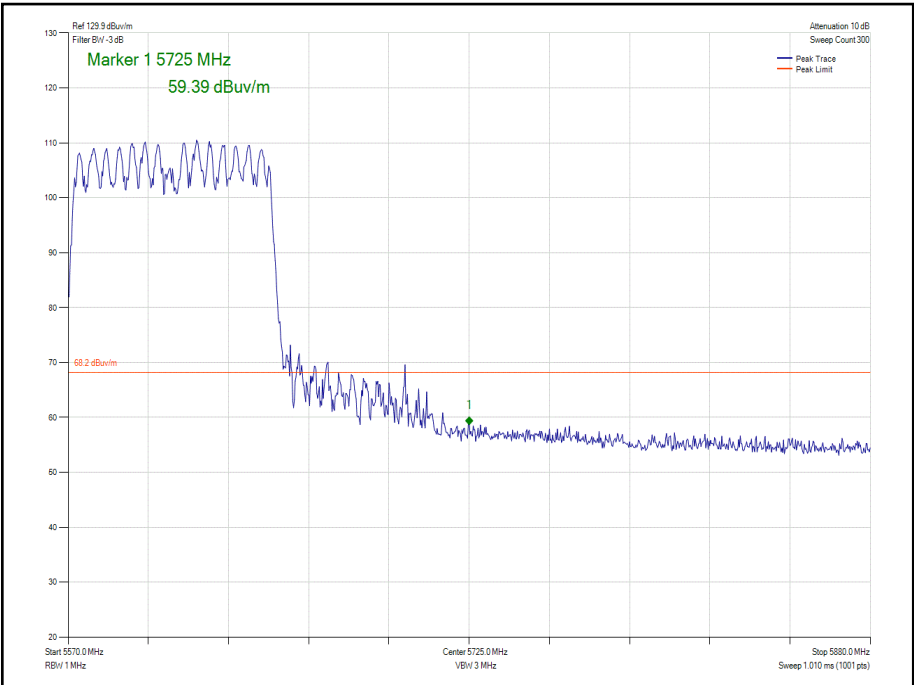


Figure 941 - 802.11ac VHT80 CDD Cores 0-1-2 - 5610 MHz
Measured Frequency 5725 MHz

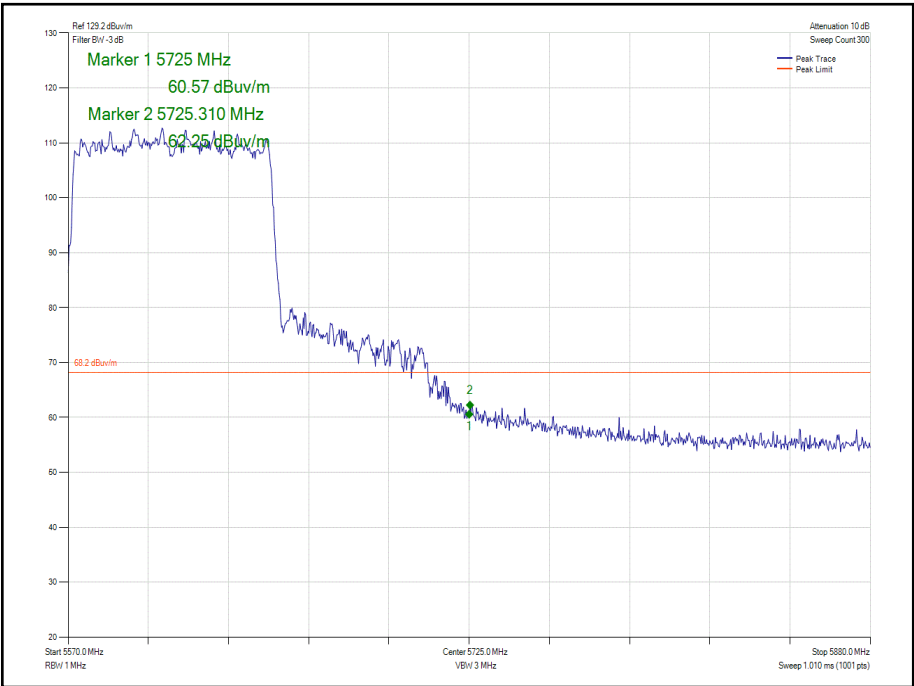


Figure 942 - 802.11ac VHT80 SDM Cores 0-1-2 - 5610 MHz
Measured Frequency 5725.31 MHz

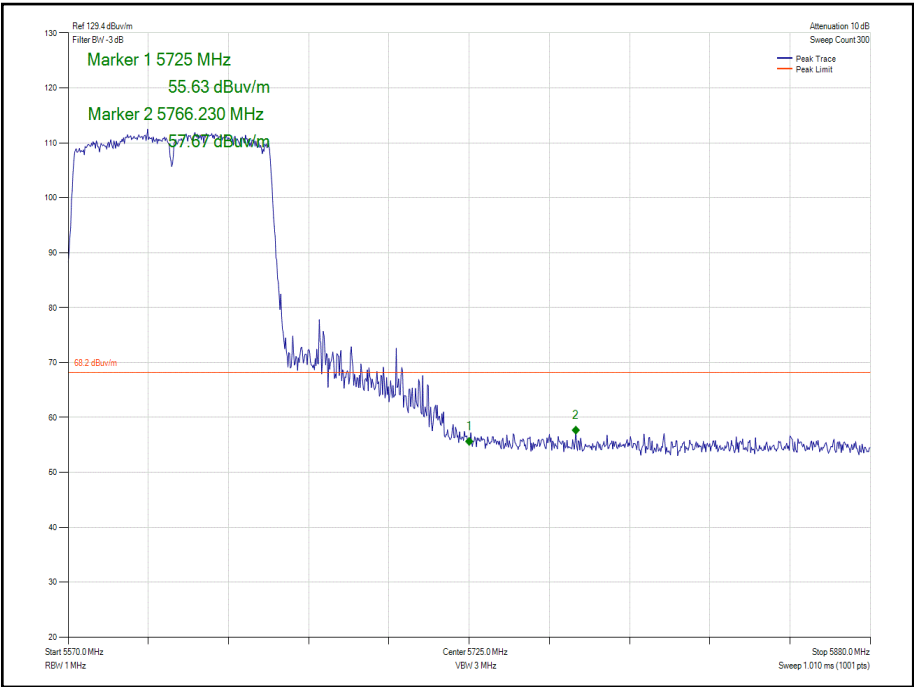


Figure 943 - 802.11ac VHT80 TxBF Cores 0-1-2 - 5610 MHz
Measured Frequency 5766.23 MHz

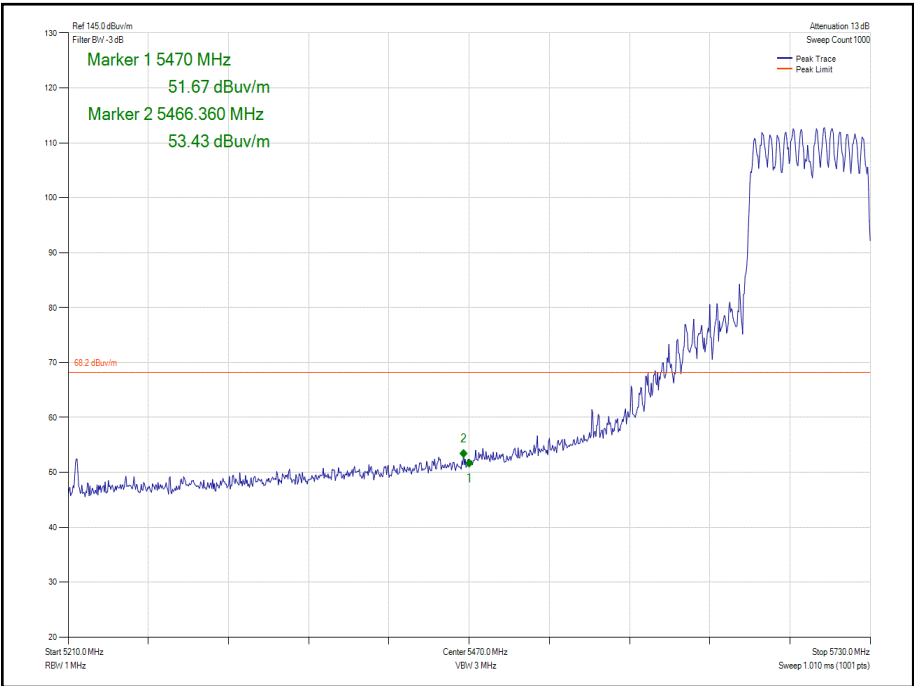


Figure 944 - 802.11n VHT80 CDD Cores 0-1-2 - 5690 MHz
Measured Frequency 5466.36 MHz

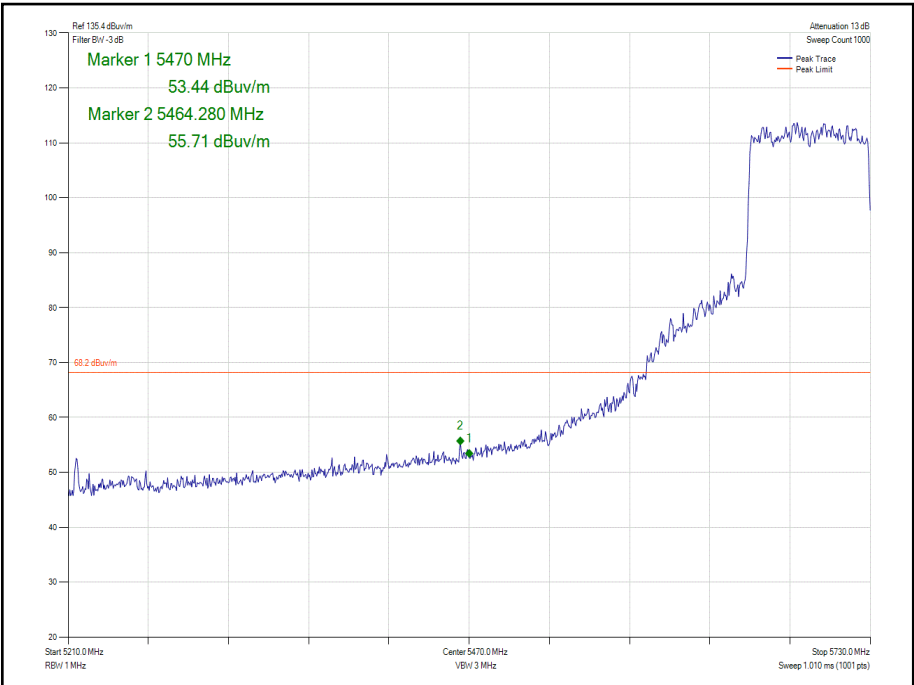


Figure 945 - 802.11n VHT80 SDM Cores 0-1-2 - 5690 MHz
Measured Frequency 5464.28 MHz

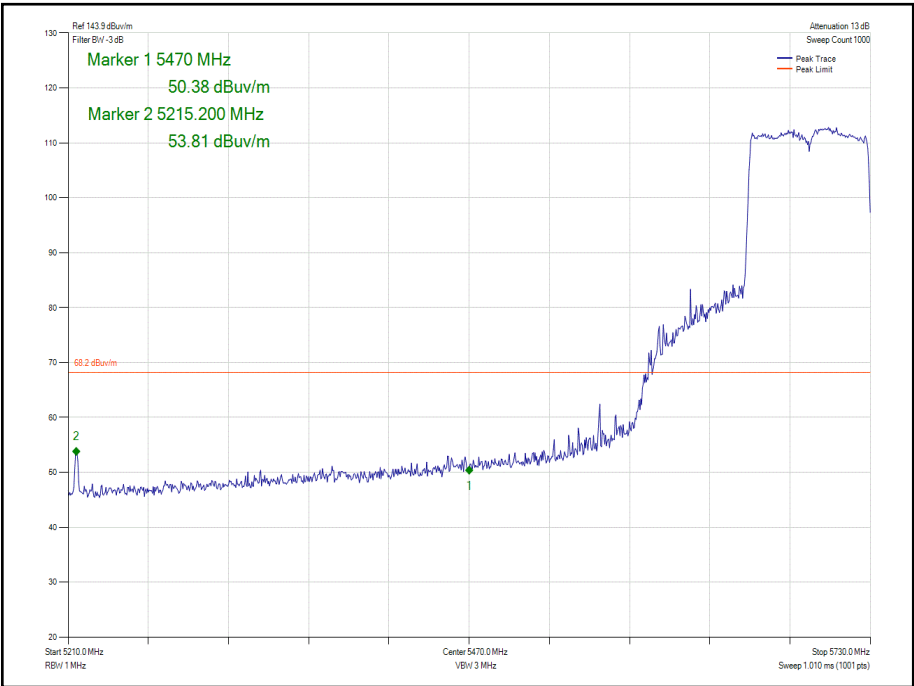


Figure 946 - 802.11n VHT80 TxBF Cores 0-1-2 - 5690 MHz
Measured Frequency 5215.2 MHz

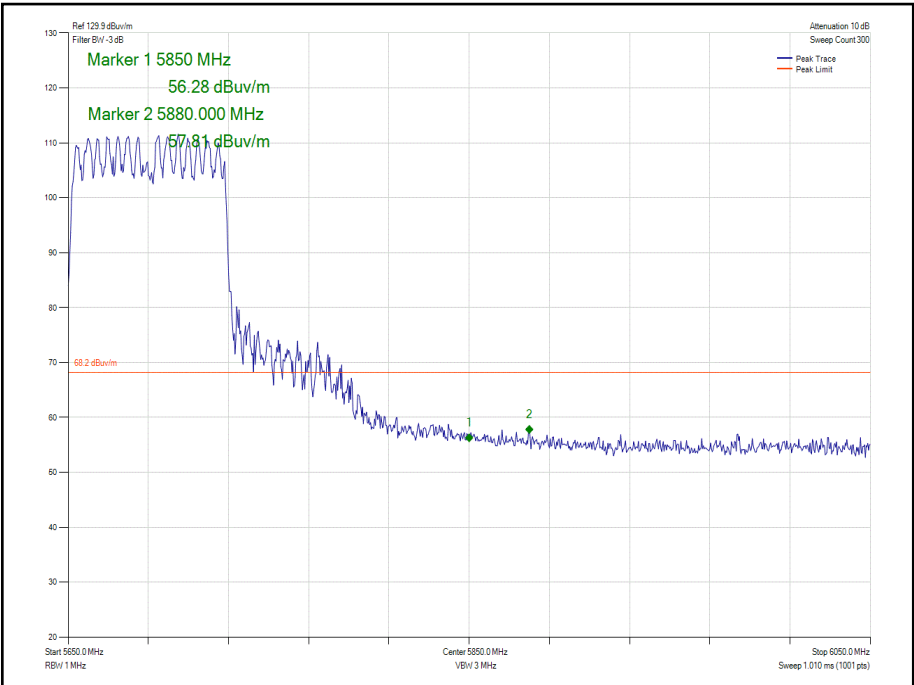


Figure 947 - 802.11ac VHT80 CDD Cores 0-1-2 - 5690 MHz
Measured Frequency 5880 MHz

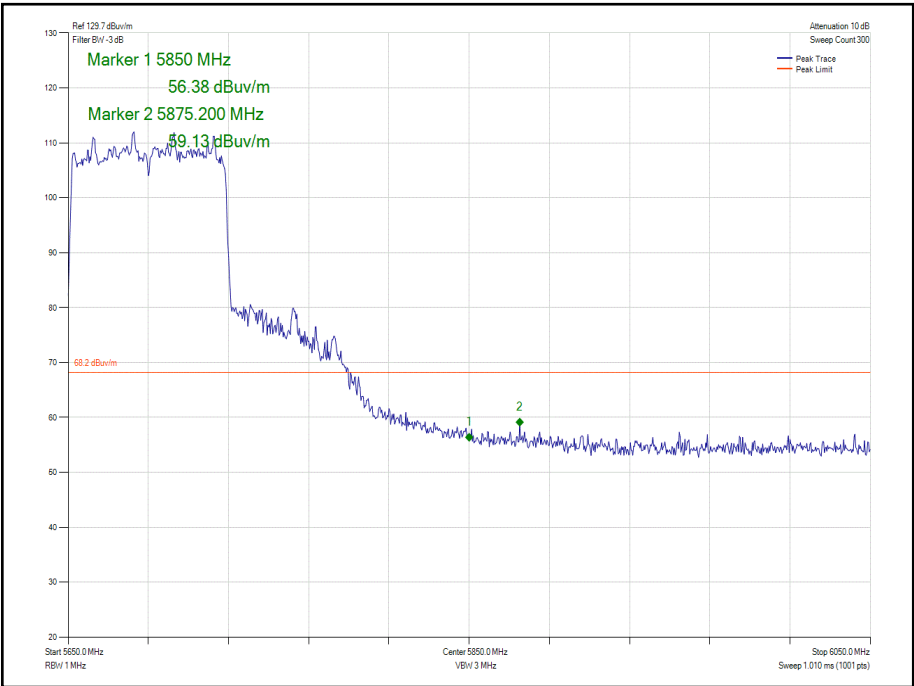


Figure 948 - 802.11ac VHT80 SDM Cores 0-1-2 - 5690 MHz
Measured Frequency 5875.2 MHz

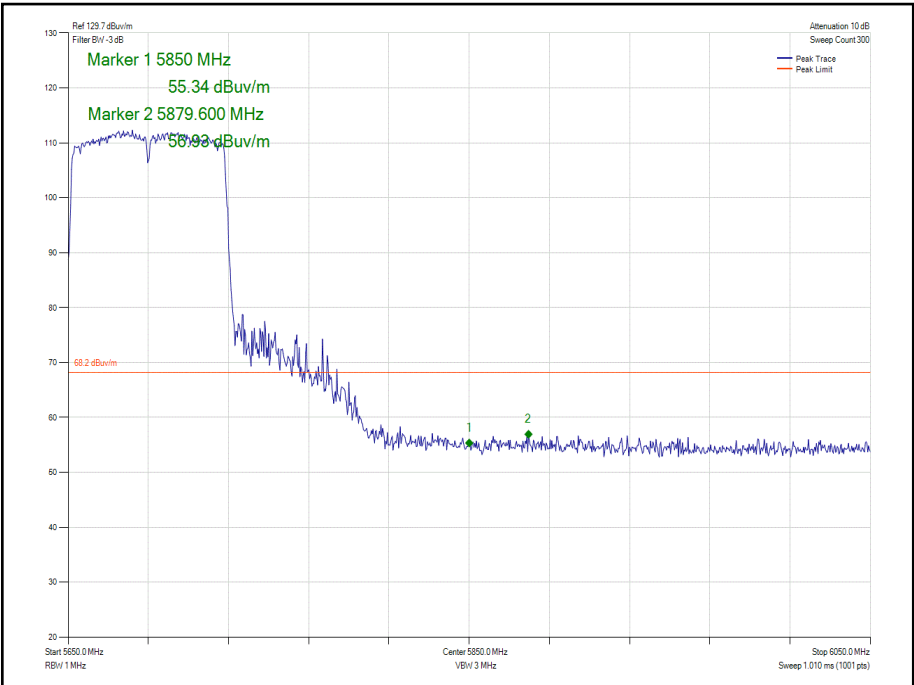


Figure 949 - 802.11ac VHT80 TxBF Cores 0-1-2 - 5690 MHz
Measured Frequency 5879.6 MHz

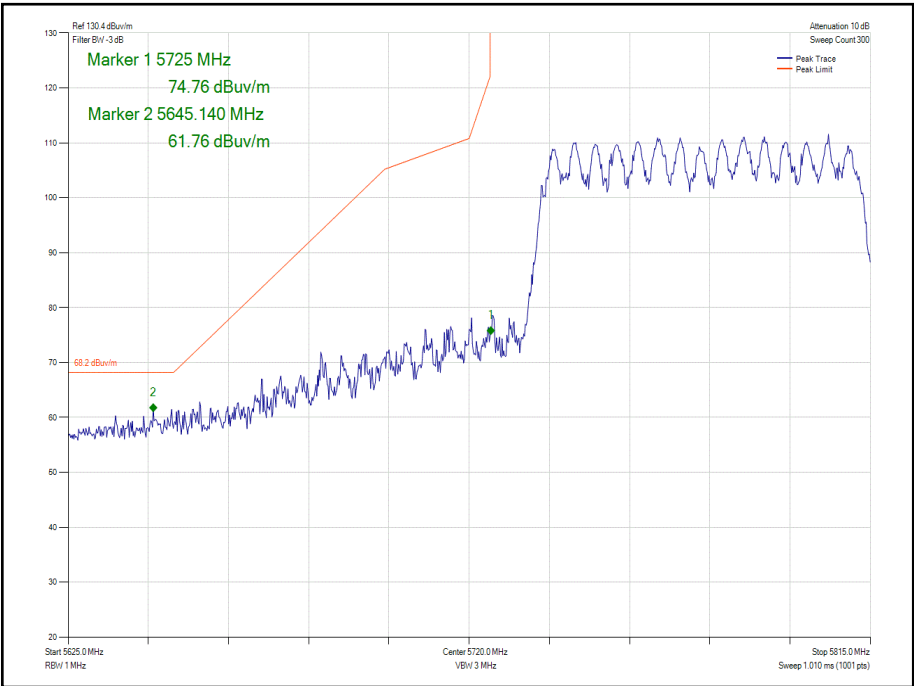


Figure 950 - 802.11ac VHT80 CDD Cores 0-1-2 - 5775 MHz
Measured Frequency 5645.14 MHz

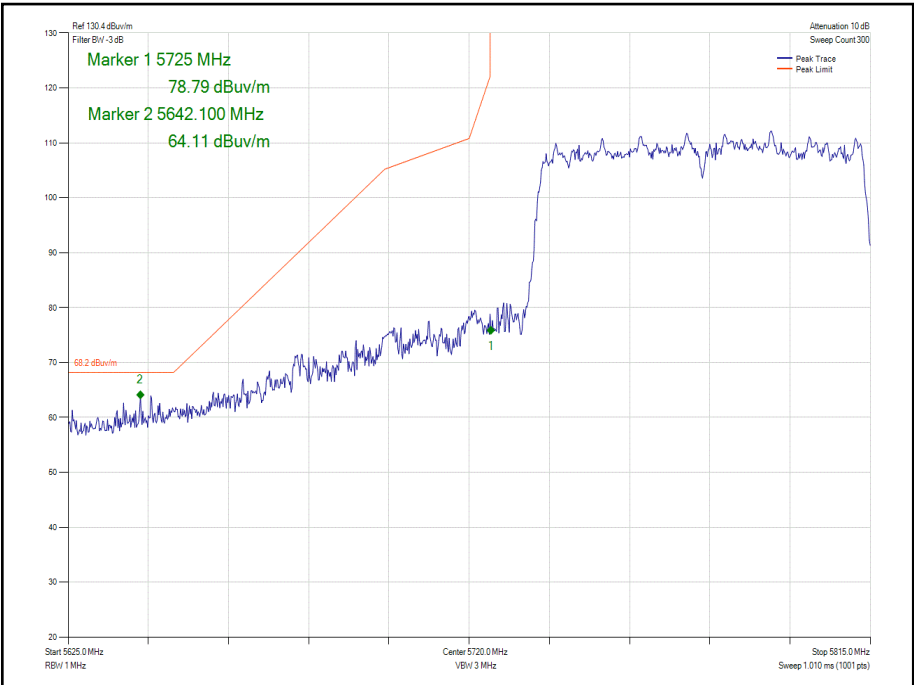


Figure 951 - 802.11ac VHT80 SDM Cores 0-1-2 - 5775 MHz
Measured Frequency 5642.1 MHz

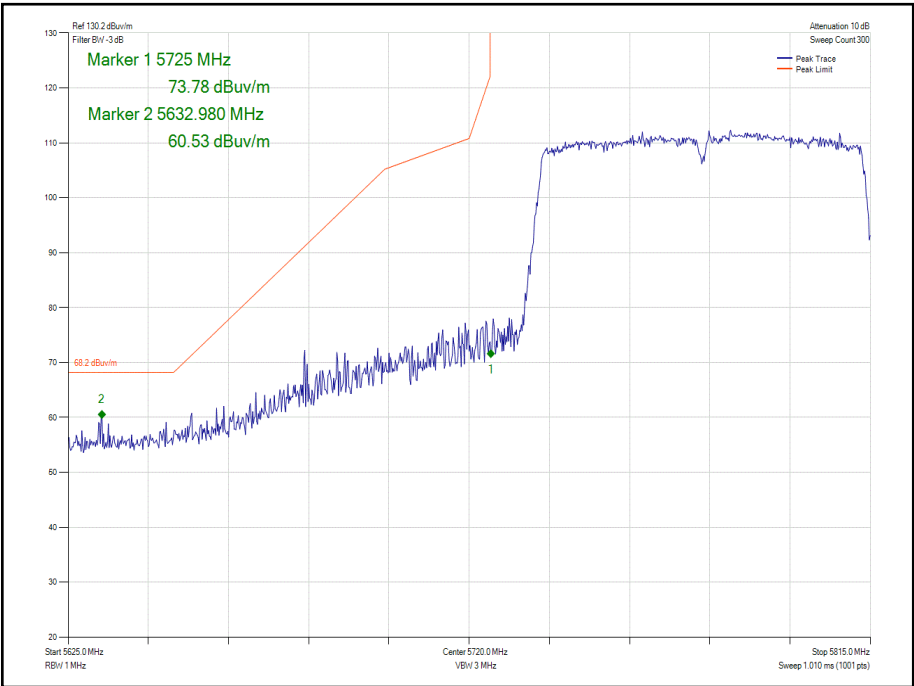


Figure 952 - 802.11ac VHT80 TxBF Cores 0-1-2 - 5775 MHz
Measured Frequency 5632.98 MHz

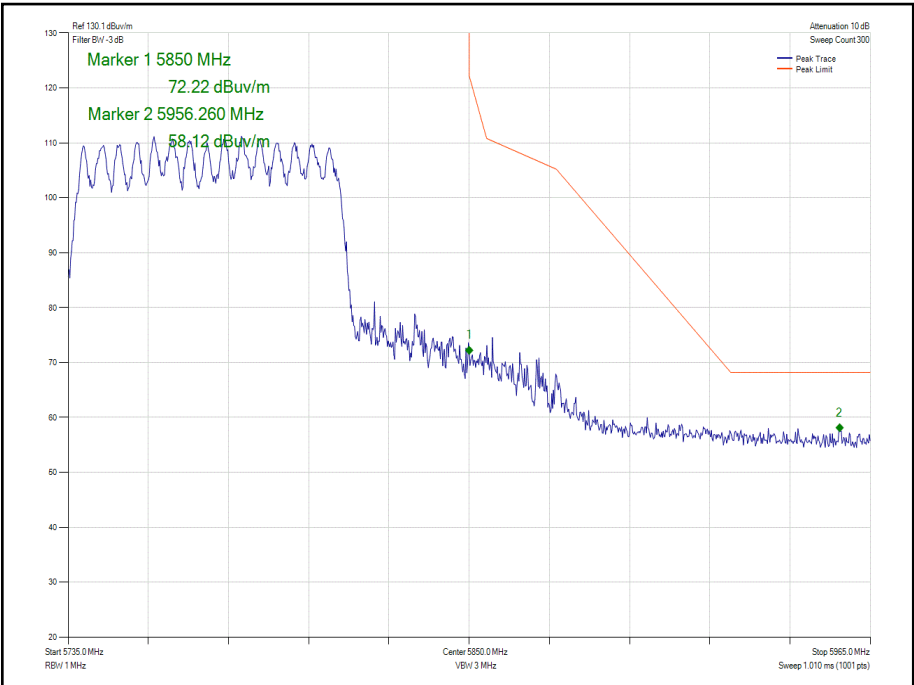


Figure 953 - 802.11ac VHT80 CDD Cores 0-1-2 - 5775 MHz
Measured Frequency 5956.26 MHz

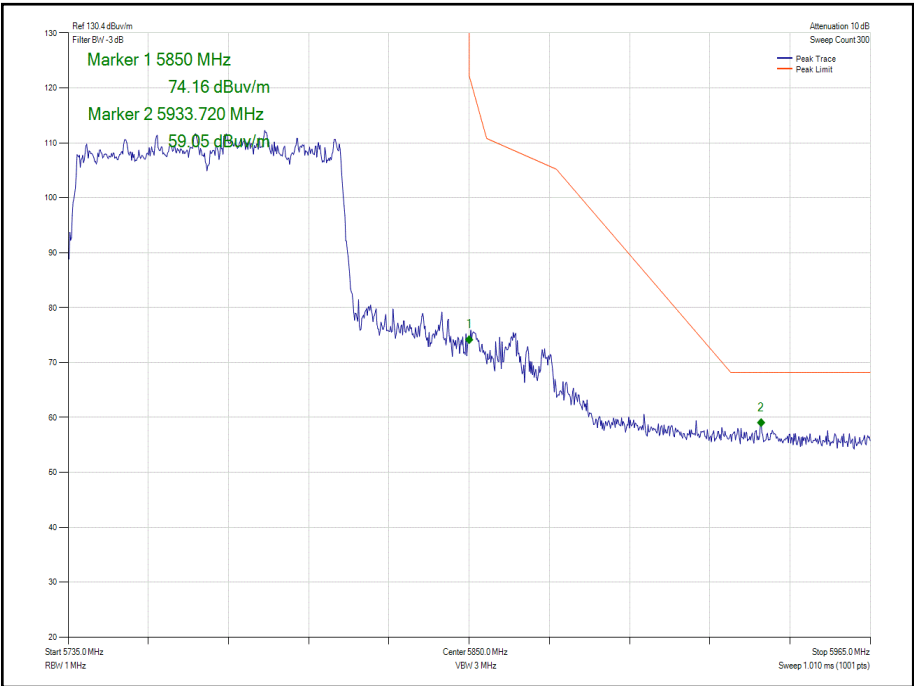


Figure 954 - 802.11ac VHT80 SDM Cores 0-1-2 - 5775 MHz
Measured Frequency 5933.72 MHz

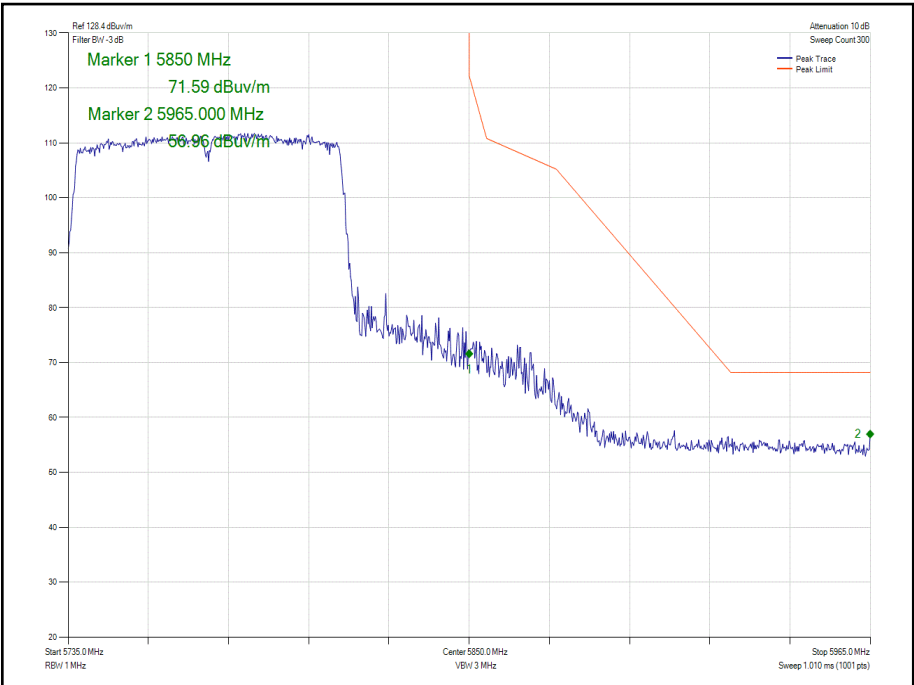


Figure 955 - 802.11ac VHT80 TxBF Cores 0-1-2 - 5775 MHz
Measured Frequency 5965 MHz



Aux - 20 MHz Bandwidth

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11a Aux Core	6 Mbps	5500	5470.000	66.76
802.11n HT20 Aux Core	MCS0	5500	5465.280	62.03
802.11a Aux Core	6 Mbps	5700	5728.080	60.04
802.11n HT20 Aux Core	MCS0	5700	5725.000	61.63
802.11a Aux Core	6 Mbps	5720	5454.920	53.56
802.11n HT20 Aux Core	MCS0	5720	5425.800	54.86
802.11a Aux Core	6 Mbps	5720	5958.920	57.25
802.11n HT20 Aux Core	MCS0	5720	5866.520	57.59
802.11a Aux Core	6 Mbps	5745	5643.460	58.78
802.11n HT20 Aux Core	MCS0	5745	5650.480	59.50
802.11a Aux Core	6 Mbps	5825	5928.535	57.14
802.11n HT20 Aux Core	MCS0	5825	5925.430	57.25

Table 444

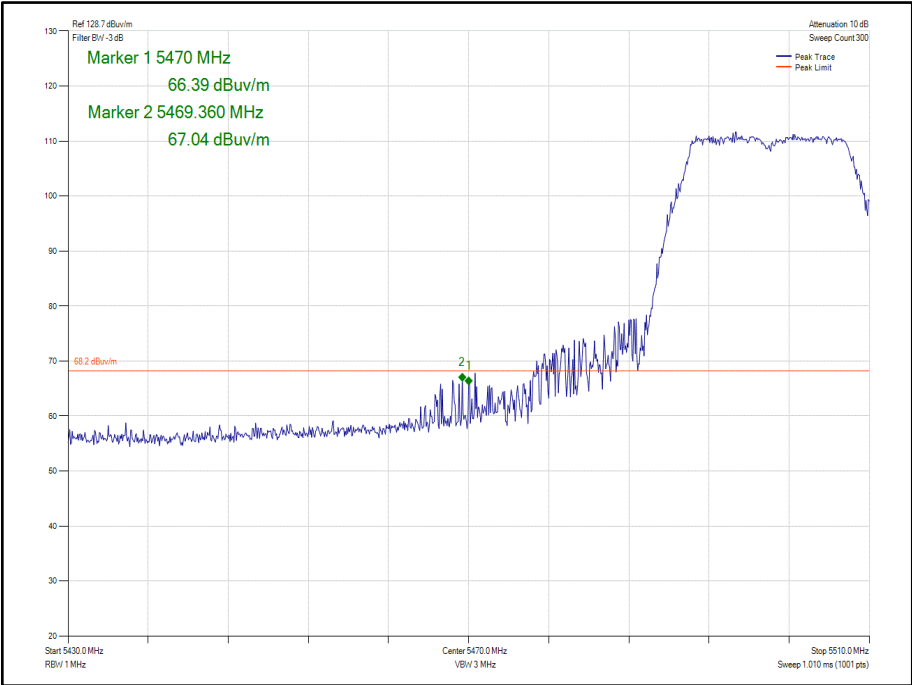


Figure 956 - 802.11a Aux Core - 5500 MHz
Measured Frequency 5470 MHz

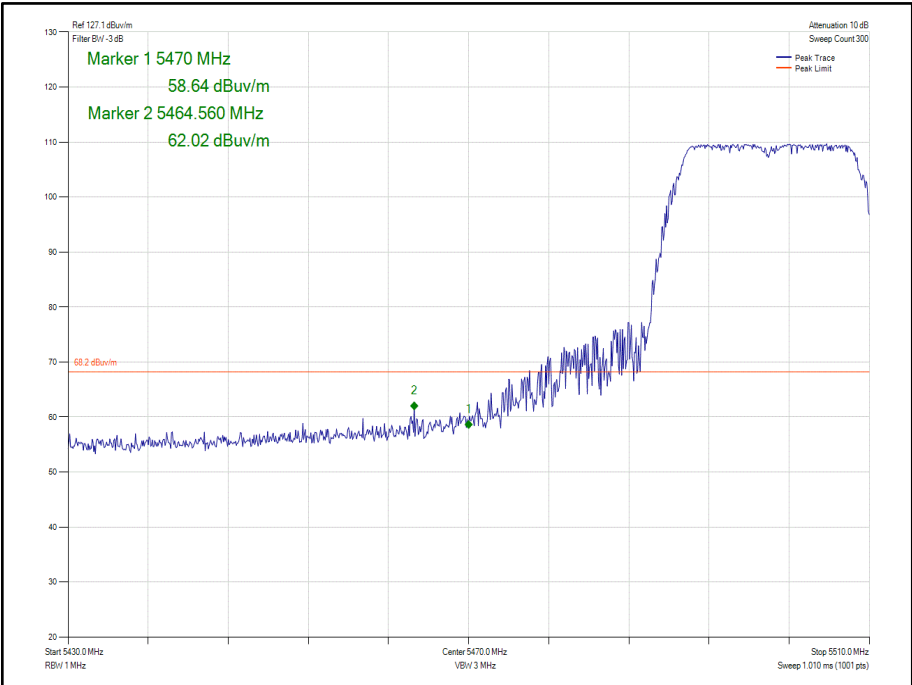


Figure 957 - 802.11n HT20 Aux Core - 5500 MHz
Measured Frequency 5465.28 MHz

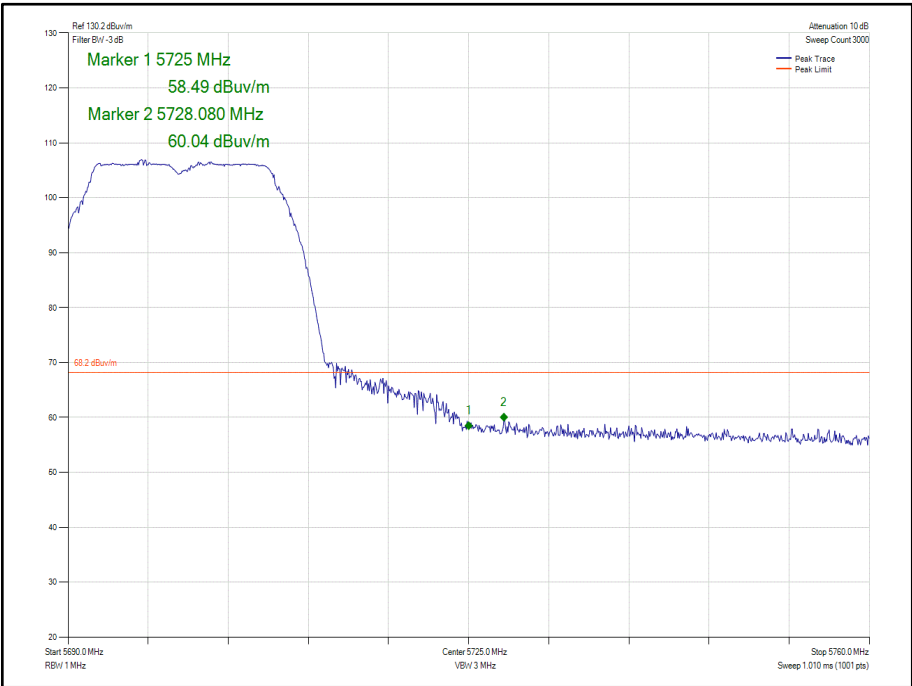


Figure 958- 802.11a Aux Core - 5700 MHz
Measured Frequency 5728.08 MHz

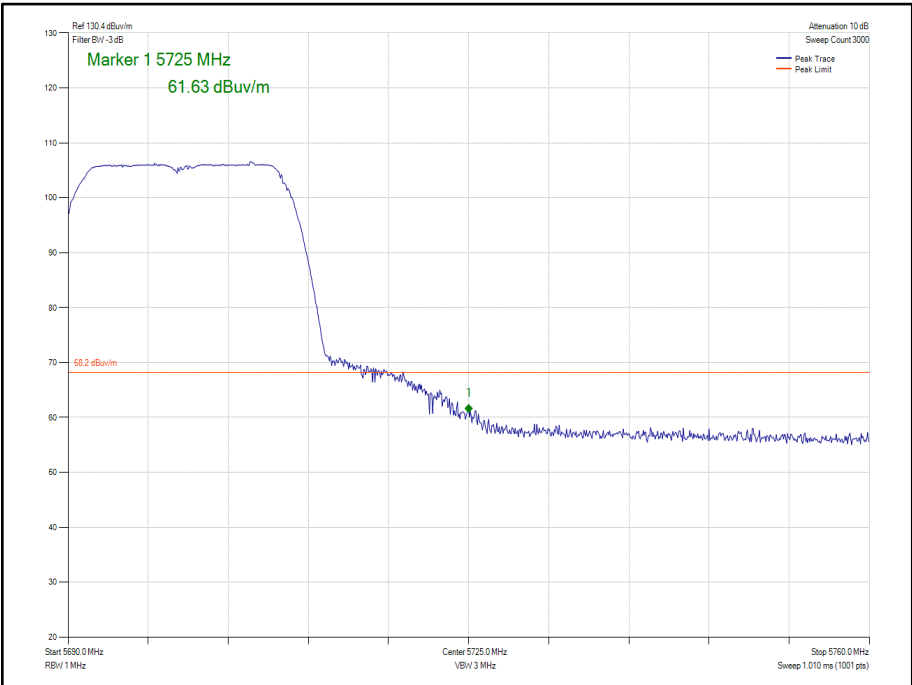


Figure 959 - 802.11n HT20 Aux Core - 5700 MHz
Measured Frequency 5725 MHz

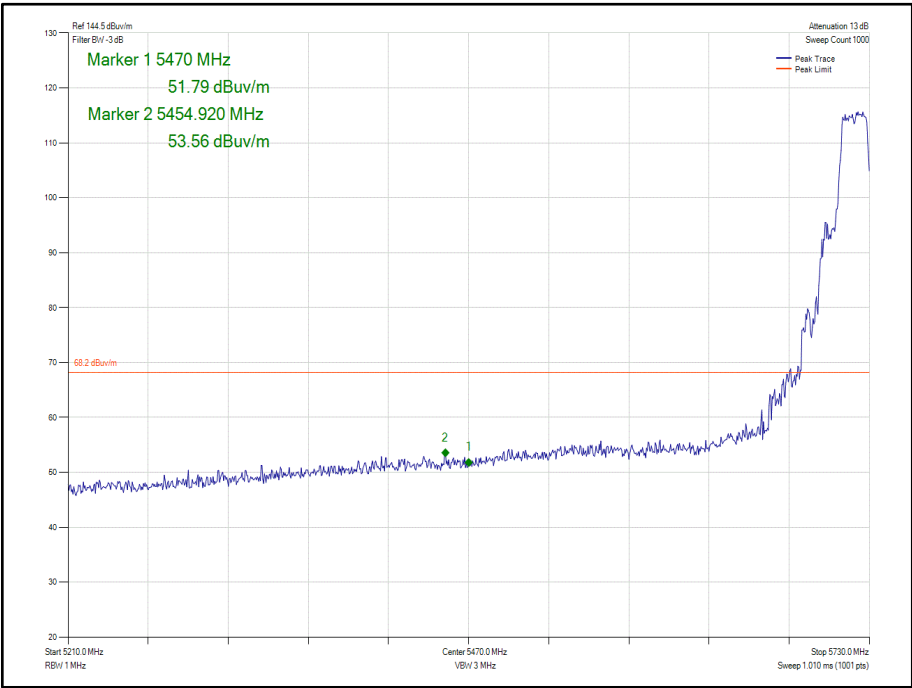


Figure 960 - 802.11a Aux Core - 5720 MHz
Measured Frequency 5454.92 MHz

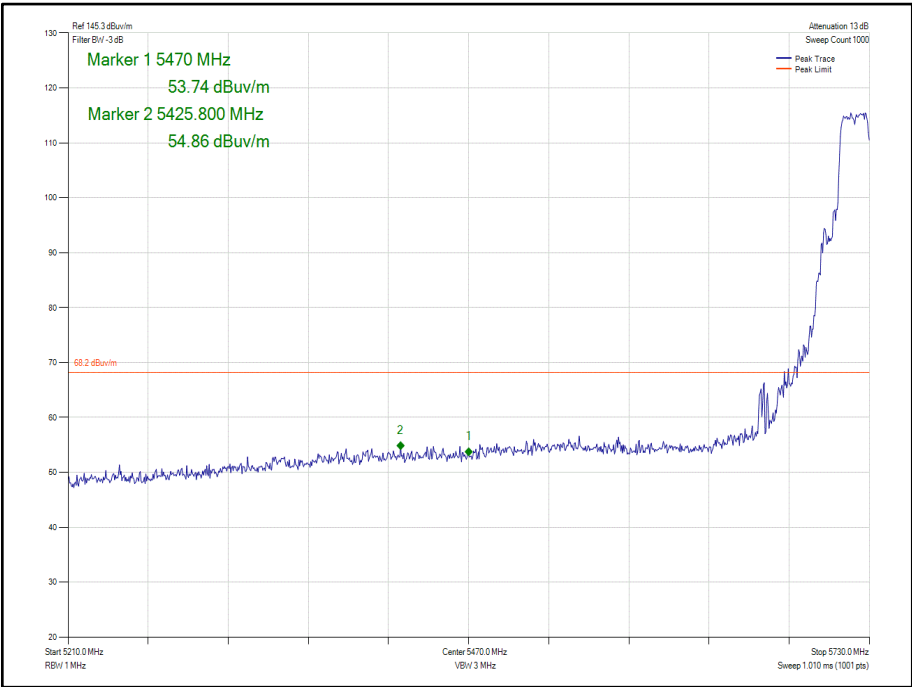


Figure 961 - 802.11n HT20 Aux Core - 5720 MHz
Measured Frequency 5425.8 MHz

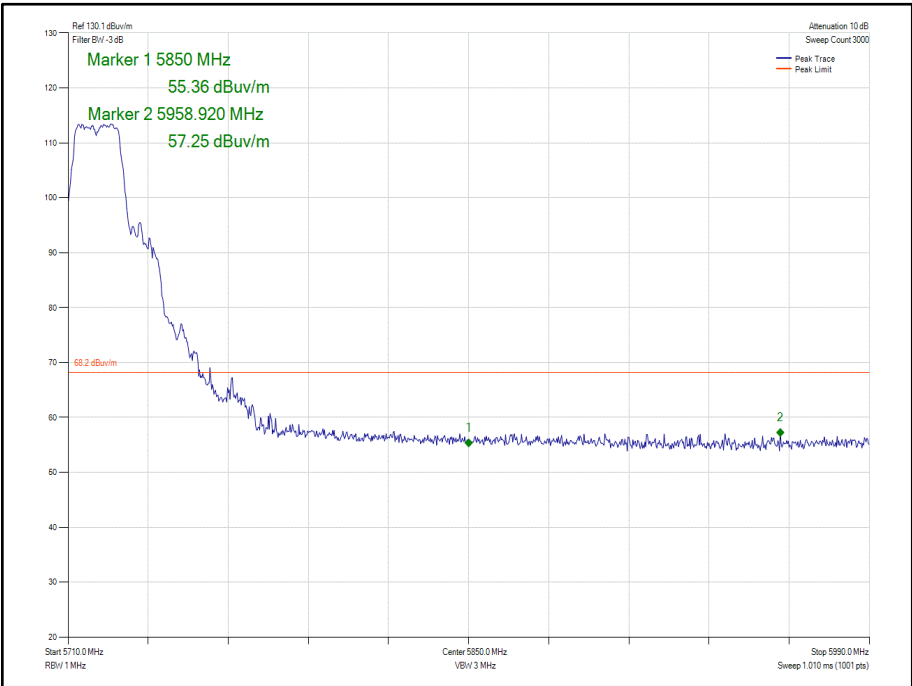


Figure 962 - 802.11a Aux Core - 5720 MHz
Measured Frequency 5958.92 MHz

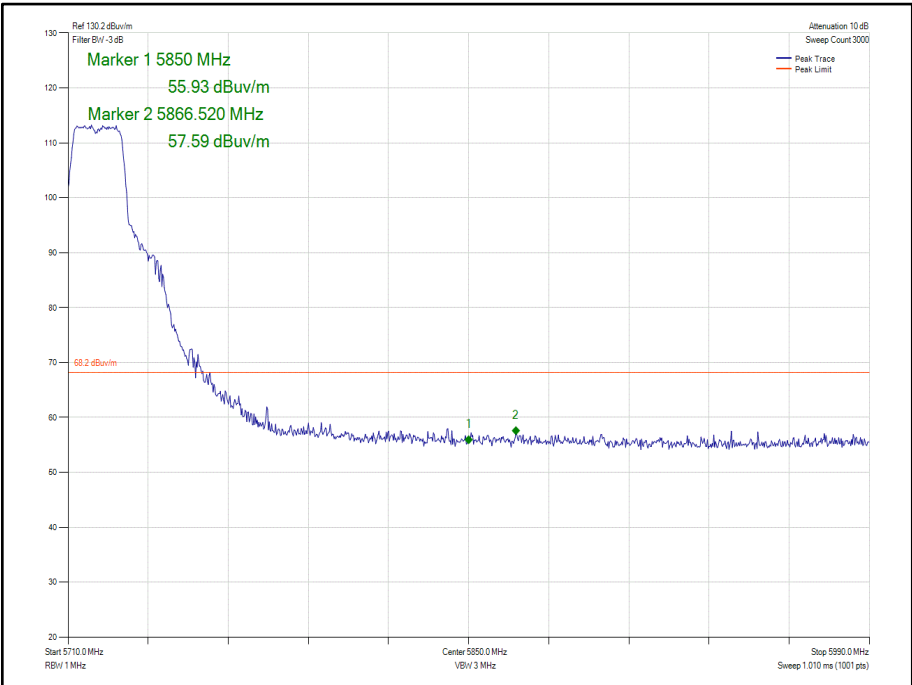


Figure 963 - 802.11n HT20 Aux Core - 5720 MHz
Measured Frequency 5866.52 MHz

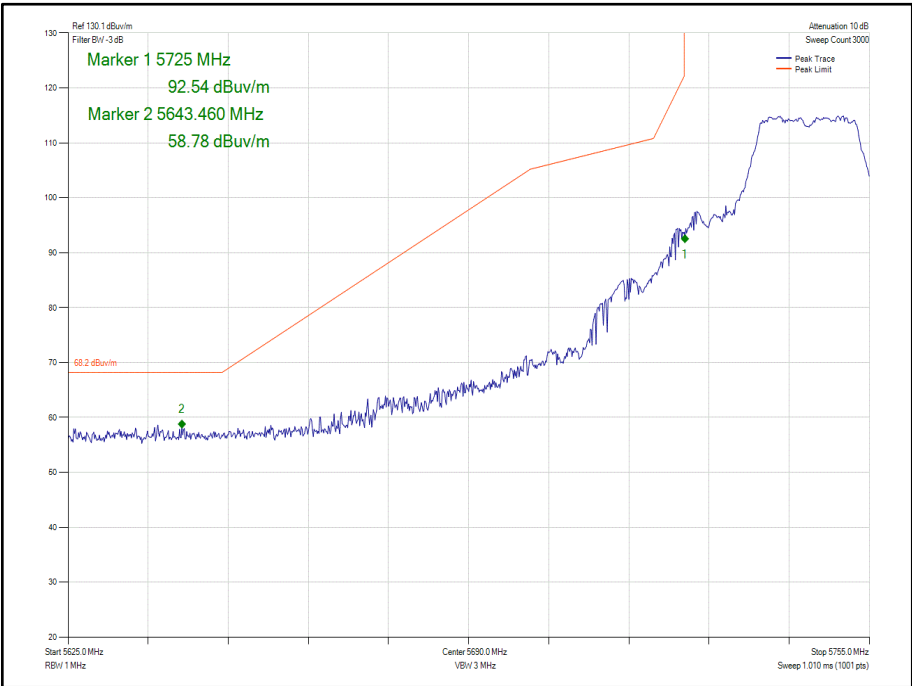


Figure 964 - 802.11a Aux Core - 5745 MHz
Measured Frequency 5643.46 MHz

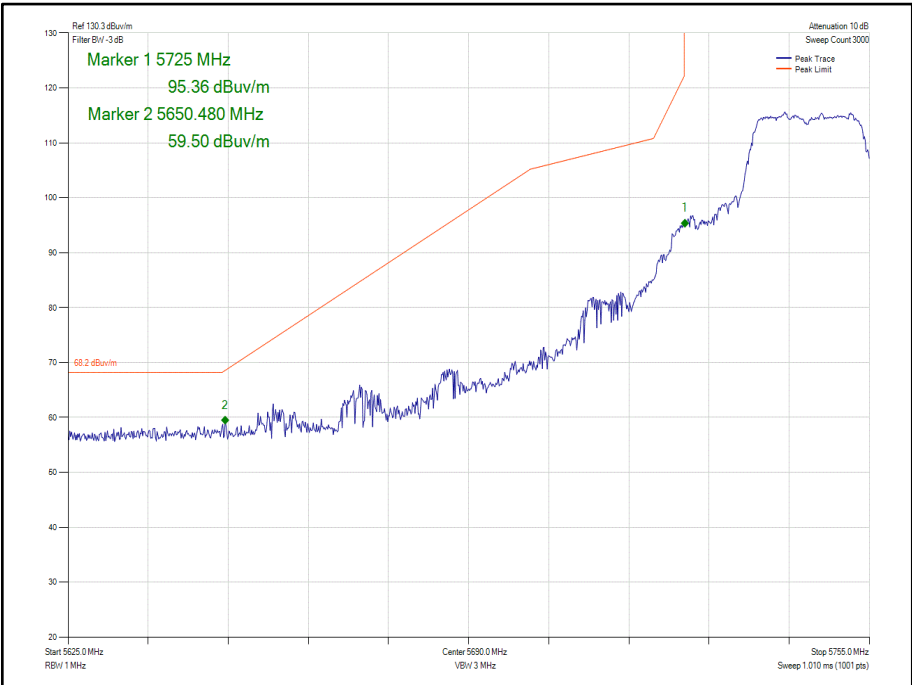


Figure 965 - 802.11n HT20 Aux Core - 5745 MHz
Measured Frequency 5650.48 MHz

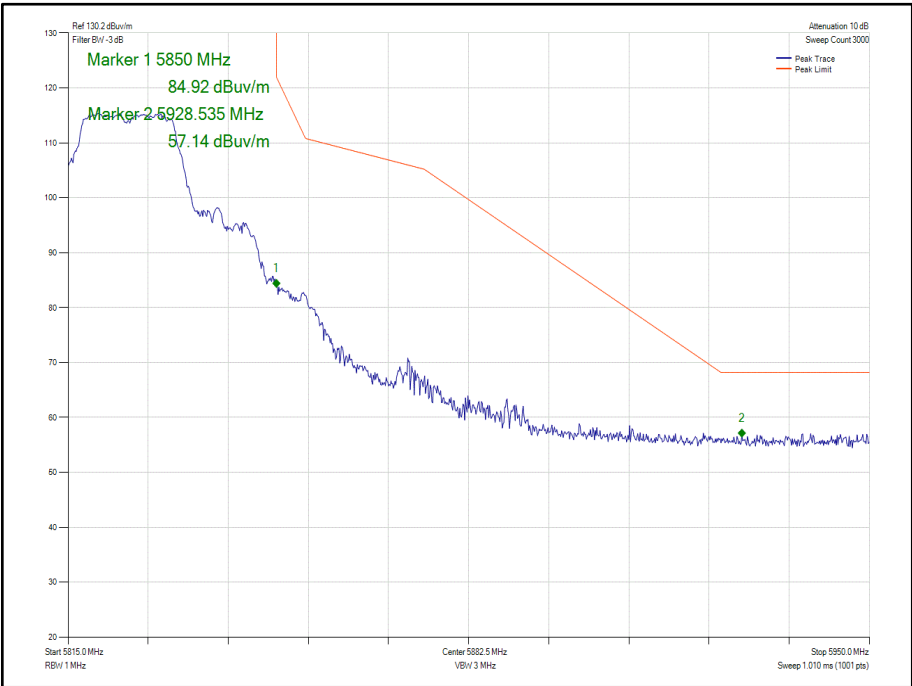


Figure 966 - 802.11a Aux Core - 5825 MHz
Measured Frequency 5928.535 MHz

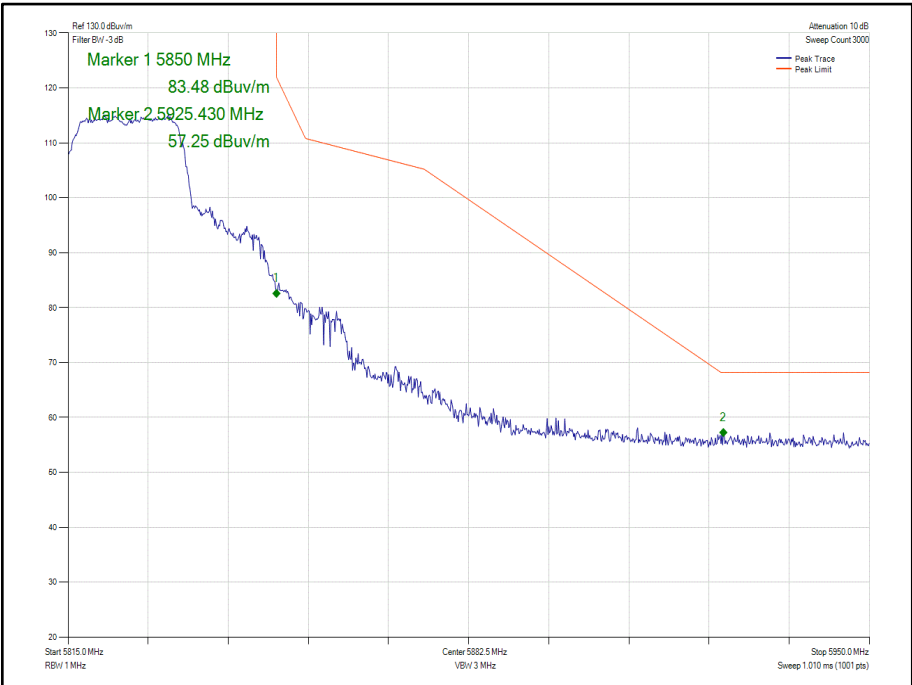


Figure 967 - 802.11n HT20 Aux Core - 5825 MHz
Measured Frequency 5925.43 MHz



Aux - 40 MHz Bandwidth

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11n HT40 Aux Core	MCS0	5510	5467.600	58.81
802.11n HT40 Aux Core	MCS0	5670	5727.250	64.70
802.11n HT40 Aux Core	MCS0	5710	5353.000	55.36
802.11n HT40 Aux Core	MCS0	5710	5857.360	58.97
802.11n HT40 Aux Core	MCS0	5755	5651.850	66.48
802.11n HT40 Aux Core	MCS0	5795	5925.850	58.14

Table 445

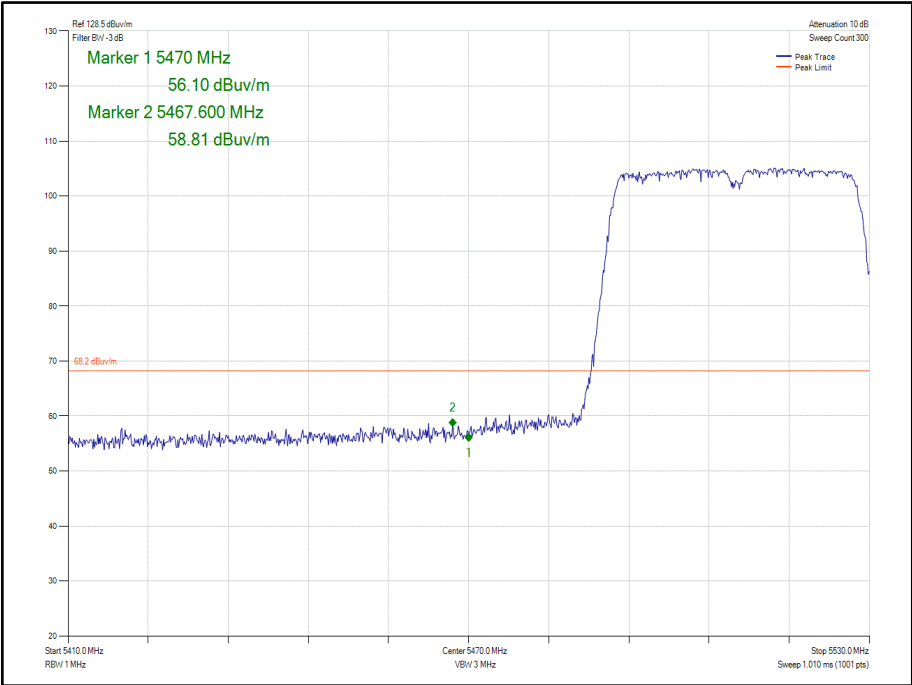


Figure 968 - 802.11n HT40 Aux Core - 5510 MHz
Measured Frequency 5467.6 MHz

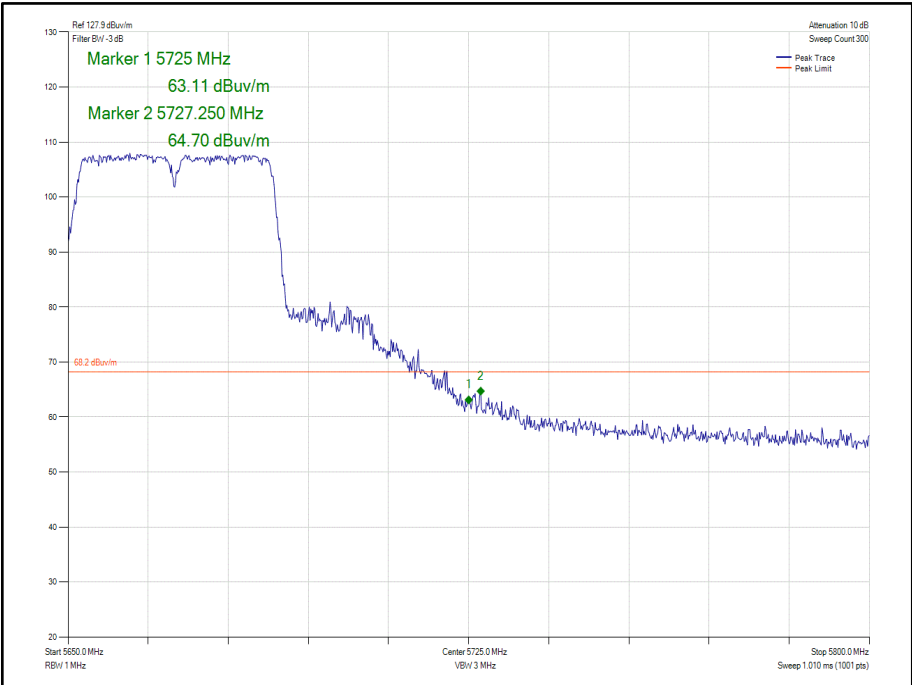


Figure 969 - 802.11n HT40 Aux Core - 5670 MHz
Measured Frequency 5727.25 MHz

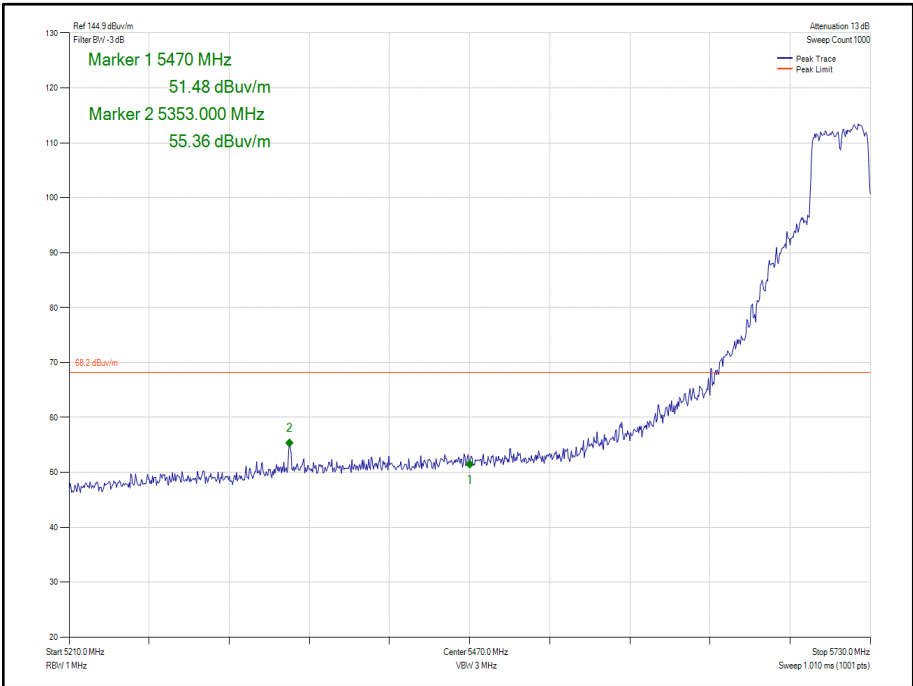


Figure 970 - 802.11n HT40 Aux Core - 5710 MHz
Measured Frequency 5353 MHz

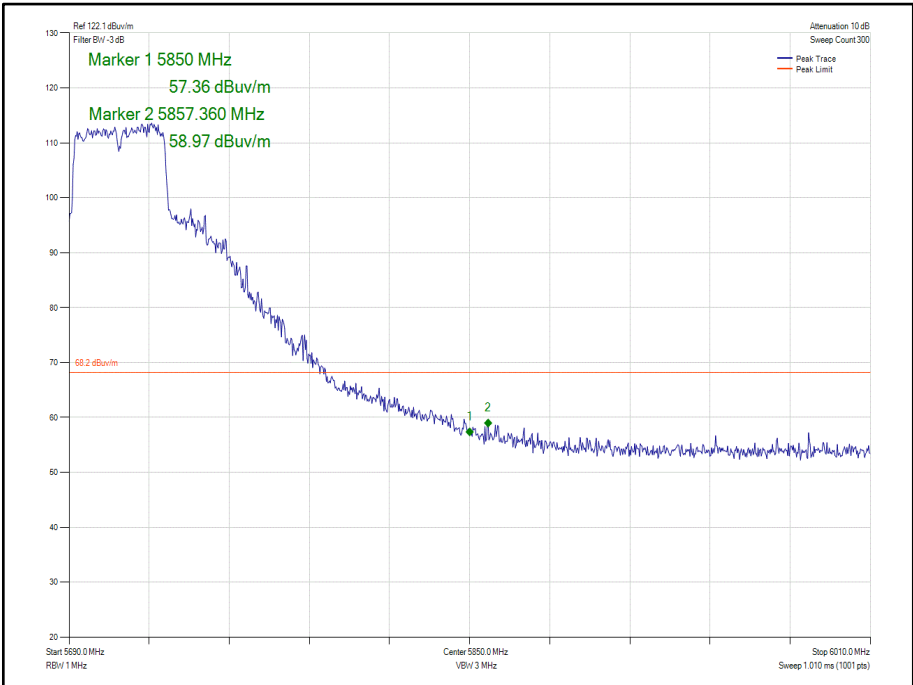


Figure 971 - 802.11n HT40 Aux Core - 5710 MHz
Measured Frequency 5857.36 MHz

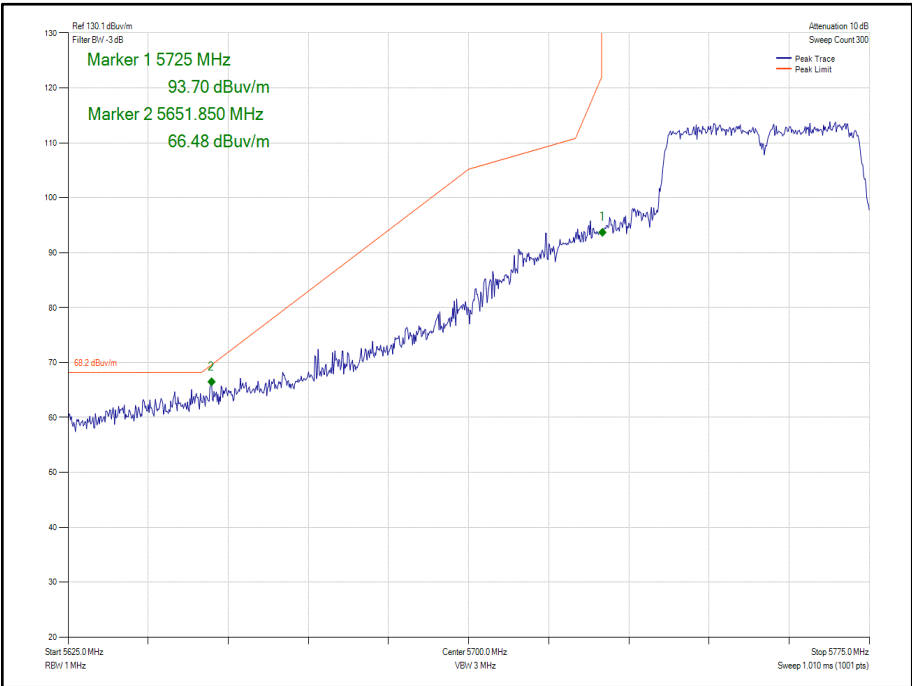


Figure 972 - 802.11n HT40 Aux Core - 5755 MHz
Measured Frequency 5651.85 MHz

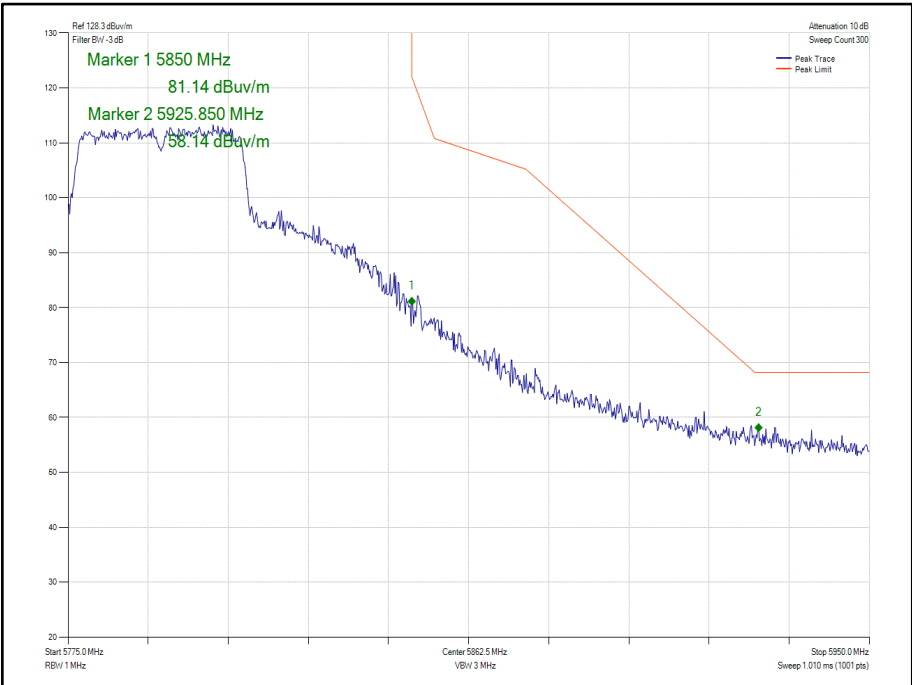


Figure 973 - 802.11n HT40 Aux Core - 5795MHz
Measured Frequency 5925.85 MHz



Aux - 80 MHz Bandwidth

Mode	Data Rate	Frequency (MHz)	Measured Frequency (MHz)	Level (dBuV/m)
802.11ac VHT80 Aux Core	MCS0	5530	5462.800	59.69
802.11ac VHT80 Aux Core	MCS0	5610	5726.240	62.31
802.11ac VHT80 Aux Core	MCS0	5690	5470.000	63.02
802.11ac VHT80 Aux Core	MCS0	5690	5852.400	64.95
802.11ac VHT80 Aux Core	MCS0	5775	5648.560	62.88
802.11ac VHT80 Aux Core	MCS0	5775	5963.850	57.42

Table 446

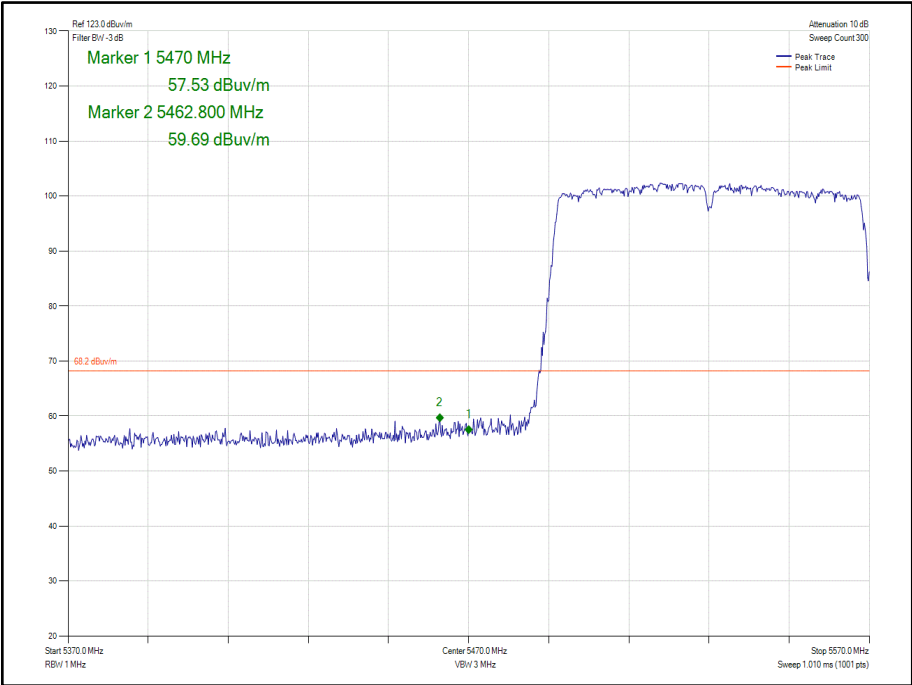


Figure 974 - 802.11ac VHT80 Aux Core - 5530 MHz
Measured Frequency 5462.8 MHz

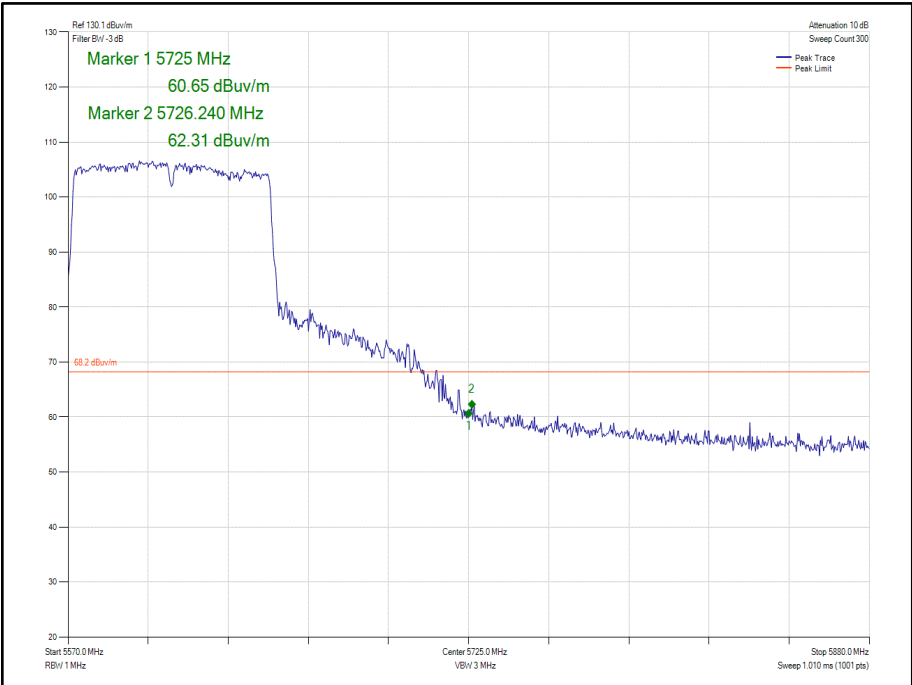


Figure 975 - 802.11ac VHT80 Aux Core - 5610 MHz
Measured Frequency 5726.24 MHz

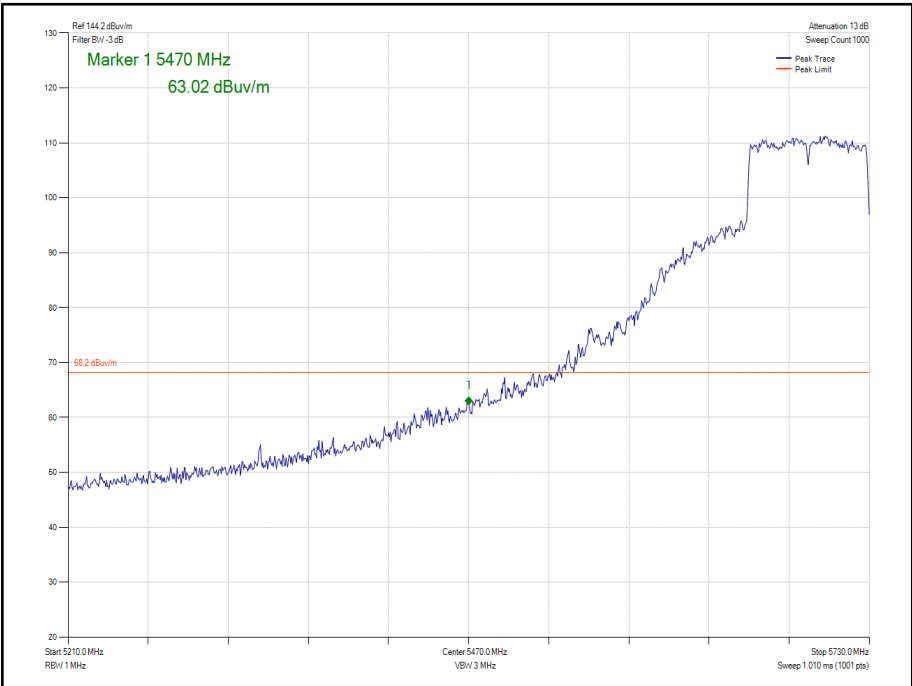


Figure 976- 802.11ac VHT80 Aux Core - 5690 MHz
Measured Frequency 5470 MHz

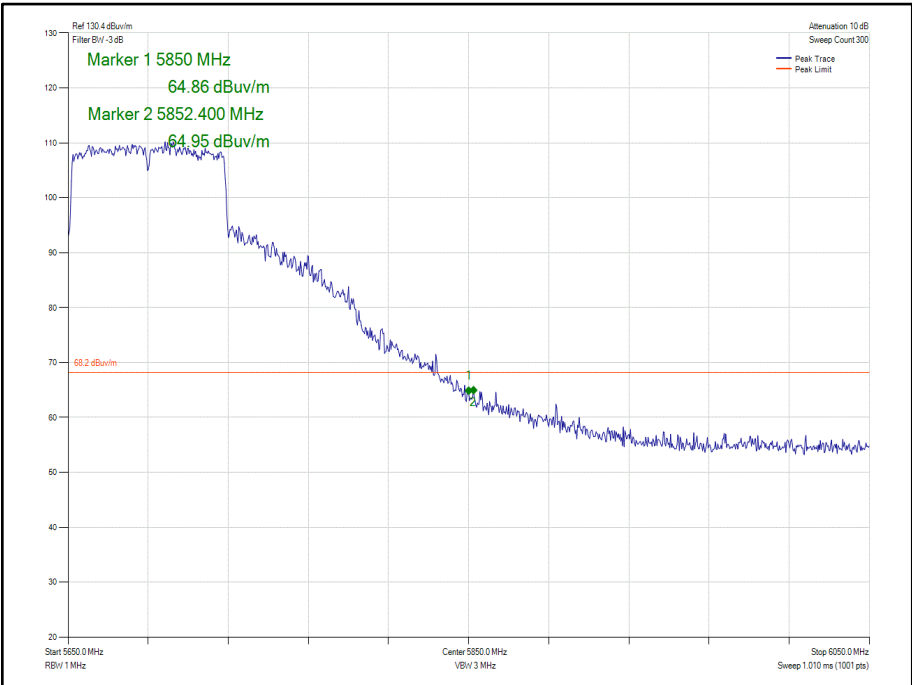


Figure 977- 802.11ac VHT80 Aux Core - 5690 MHz
Measured Frequency 5852.4 MHz

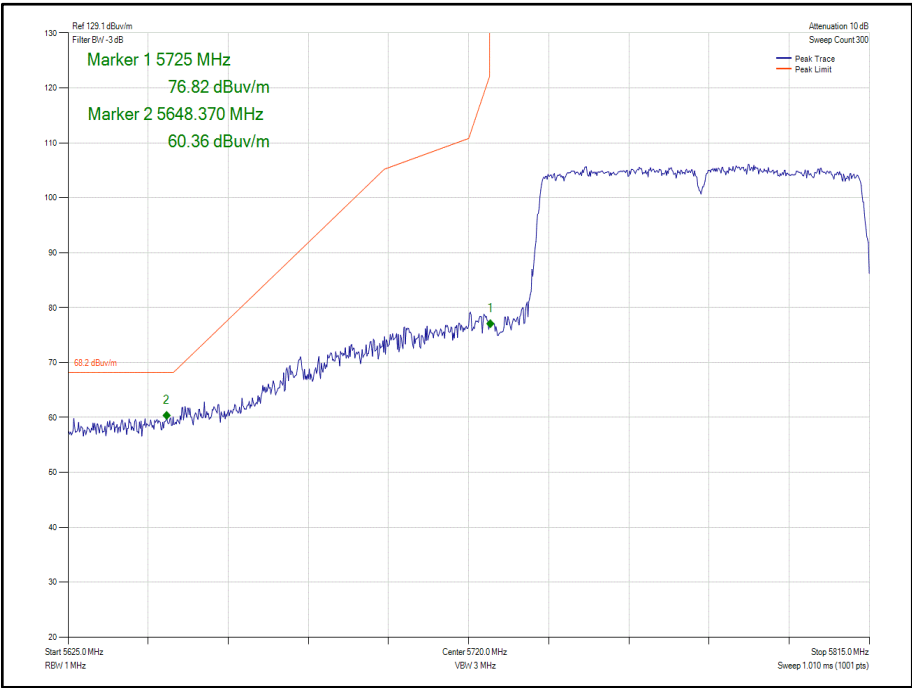


Figure 978- 802.11ac VHT80 Aux Core - 5775 MHz
Measured Frequency 5648.56 MHz

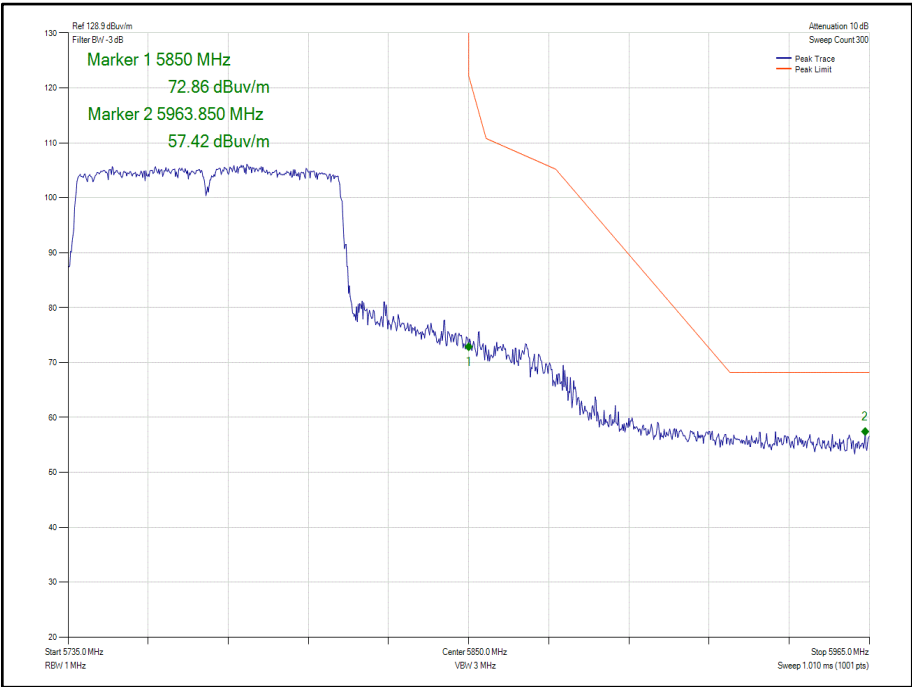


Figure 979 - 802.11ac VHT80 Aux Core - 5775 MHz
Measured Frequency 5963.85 MHz



2.4.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5 and EMC Chamber 11.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Screened Room (5)	Rainford	Rainford	1545	36	23-Jan-2021
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Hygrometer	Rotronic	HYGROPALM 1	2338	12	15-Nov-2019
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	3916	-	TU
DC - 12.4 GHz 10 dB Attenuator	Suhner	6810.17.A	3965	12	07-Aug-2020
Cable (Rx, Km-Km 2m)	Scott Cables	KPS-1501-2000-KPS	4526	6	11-Dec-2019
Double Ridged Waveguide Horn Antenna	ETS-Lindgren	3117	4722	12	5-Mar-2020
Tilt Antenna Mast	Maturo GmbH	TAM 4.0-P	4811	-	TU
Double Ridge Broadband Horn Antenna	Schwarzbeck	BBHA 9120 B	4848	12	11-Mar-2020
8 - 18 GHz pre amp	Wright Technologies	PS06-0061	4971	12	7-Dec-2019
EMI Test Receiver	Rohde & Schwarz	ESW44	5084	12	12-Sep-2019*
8m N-Type RF Cable	Teledyne	PR90-088-8MTR	5095	12	4-Oct-2019*
Cable (18 GHz)	Rosenberger	LU7-071-1000	5102	12	4-Oct-2019*
Cable (18 GHz)	Rosenberger	LU7-071-1000	5104	12	5-Oct-2019*
Cable (18 GHz)	Rosenberger	LU7-071-1000	5105	12	5-Oct-2019*
Cable (18 GHz)	Rosenberger	LU7-071-2000	5107	12	5-Oct-2019*
EmX Software V.1.4.8.3	TUV SUD	EmX	5125	-	Software
1.5m 40GHz RF Cable	Scott Cables	KPS-1501-2000-KPS	5127	6	11-Dec-2019
Screened Room (11)	Rainford	Rainford	5136	36	1-Nov-2021
Mast	Maturo	TAM 4.0-P	5158	-	TU
Mast and Turntable Controller	Maturo	Maturo NCD	5159	-	TU
Turntable	Maturo	TT 15WF	5160	-	TU
8 meter cable	Teledyne	PR90-088-8MTR	5212	12	30-Aug-2020
Preamplifier (30dB 1GHz to 18GHz)	Schwarzbeck	BBV 9718 C	5261	12	26-Mar-2020

Table 447

TU – Traceability Unscheduled

*This item was in calibration at the time of test.



2.5 Spurious Radiated Emissions

2.5.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (b) and 15.205
ISED RSS-247, Clause 6.2
ISED RSS-GEN, Clause 6.13

2.5.2 Equipment Under Test and Modification State

A2141, S/N: C02YT00GL51N - Modification State 0

2.5.3 Date of Test

03-August-2019 to 12-August-2019

2.5.4 Test Method

Testing was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

Tests were performed in HT20 CDD in 3TX MIMO mode on the Main Radio, with measurements undertaken from 30 MHz to 40 GHz, on channel 36 (5180 MHz) and channel 165 (5825 MHz).

All testing was performed using the lowest data rate/modulation scheme for the applicable mode since this was declared worst case by the customer.

For the purpose of this testing, spurious emissions were limited to 1 GHz to 40 GHz on all other test channels.

Tests on the AUX radio were limited to 1 GHz to 40 GHz, as measurement's below 1 GHz on the main radio were considered to be worst case.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 12.7.7.2 with max-hold trace to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10-2013 clause 4.1.4.2.2.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBμV/m to μV/m:
 $10^{(\text{Field Strength in dB}\mu\text{V/m}/20)}$

EIRP was converted to field strength at 3m using the following formula:
Field Strength (dBμV/m at 3 m) = EIRP (dBm) + 95.2 dB

2.5.5 Environmental Conditions

Ambient Temperature	21.0 - 23.0 °C
Relative Humidity	45.0 - 62.7 %



2.5.6 Test Results

Main - 20 MHz Bandwidth

Testing was performed with the device operating at maximum output power, HT20 CDD MIMO 3TX, as this was deemed to be worst case.

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
*						

Table 448 –30 MHz to 1 GHz – Radiated

*No emissions were detected within 10 dB of the limit

Frequency (GHz)	Result (µV/m)		Limit (µV/m)		Margin (µV/m)	
	Peak	Average	Peak	Average	Peak	Average
*						

Table 449 - 1GHz to 40GHz - Emissions Results

*No emissions were detected within 10 dB of the limit.