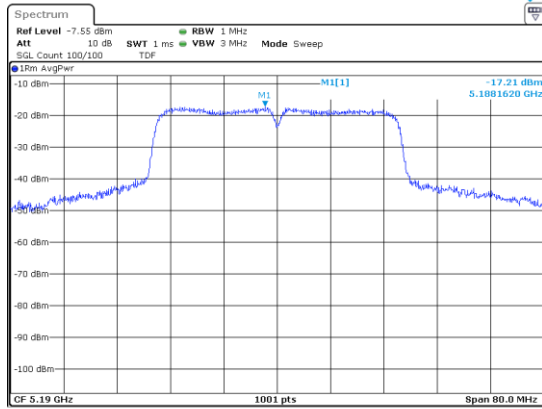
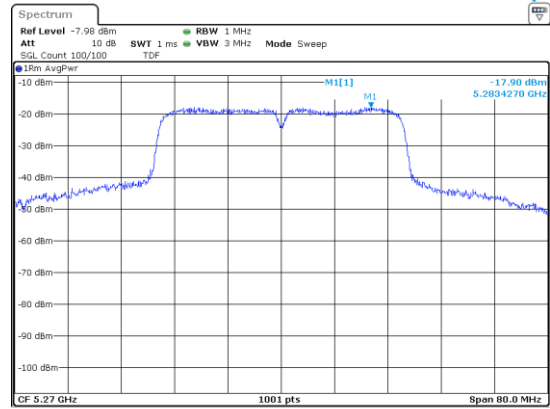


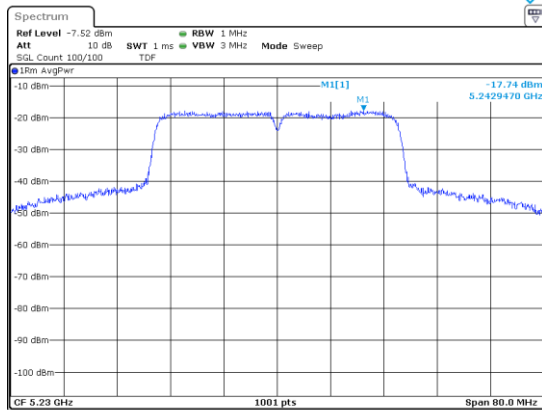
6.3.2.5 Measured Graph for 802.ac(VHT40) Test Data



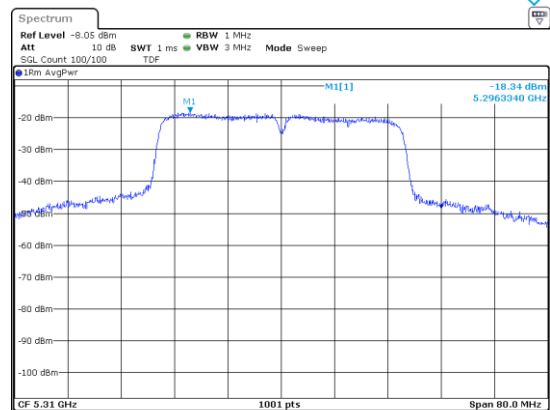
UNII-1 / 802.ac(VHT40)/ 5 190 MHz



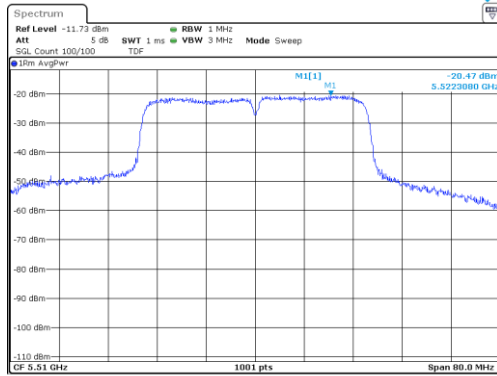
UNII-2A / 802.ac(VHT40)/ 5 270 MHz



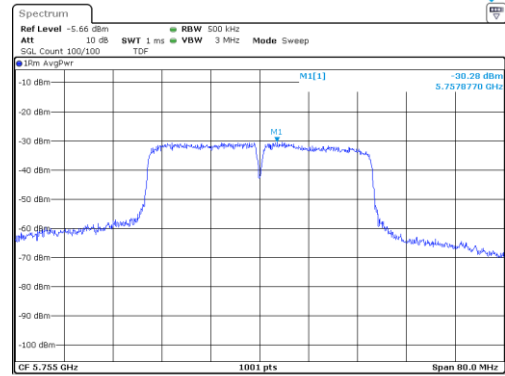
UNII-1 / 802.ac(VHT40)/ 5 230 MHz



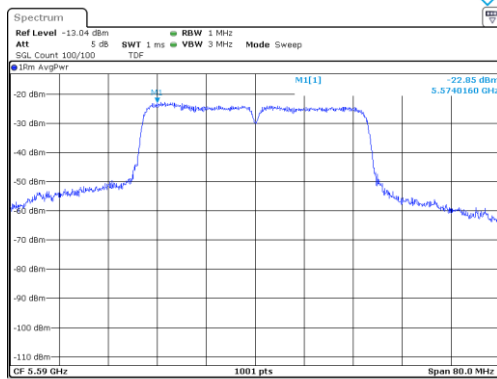
UNII-2A / 802.ac(VHT40)/ 5 310 MHz



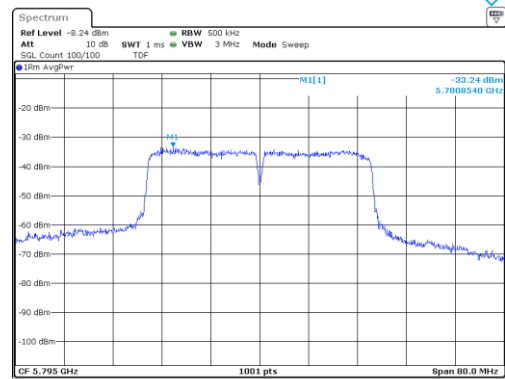
UNII-2C / 802.11ac(VHT40)/ 5 510 MHz



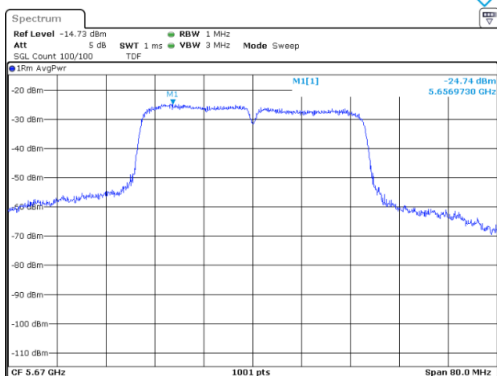
UNII-3 / 802.11ac(VHT40)/ 5 755 MHz



UNII-2C / 802.11ac(VHT40)/ 5 590 MHz

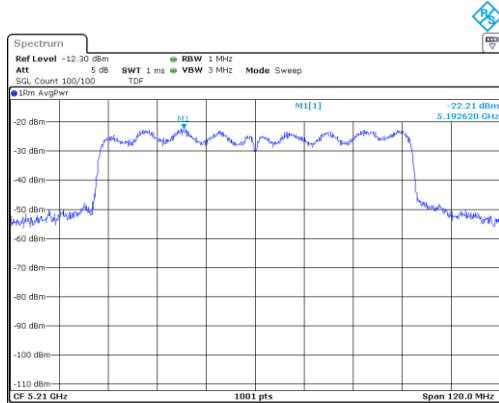


UNII-3 / 802.11ac(VHT40)/ 5 795 MHz

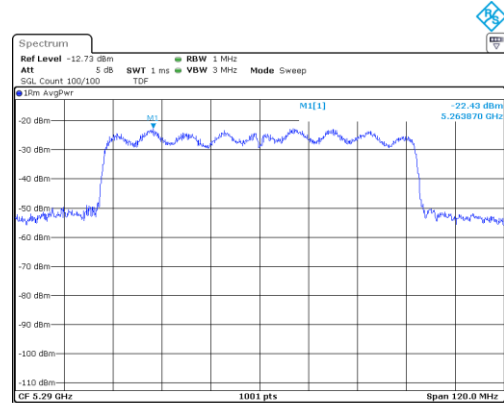


UNII-2C / 802.11ac(VHT40)/ 5 670 MHz

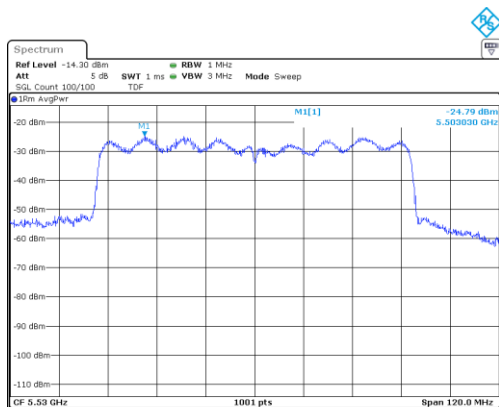
6.3.2.6 Measured Graph for 802.ac(VHT80) Test Data



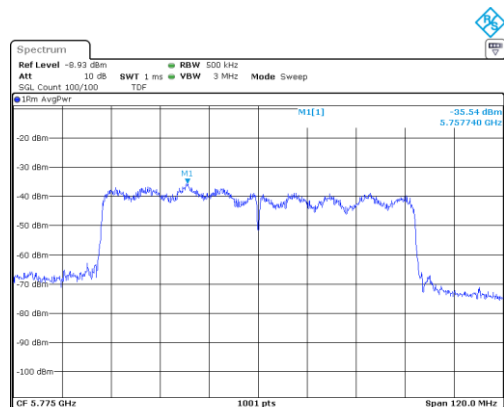
UNII-1 / 802.11ac(VHT80)/ 5 210 MHz



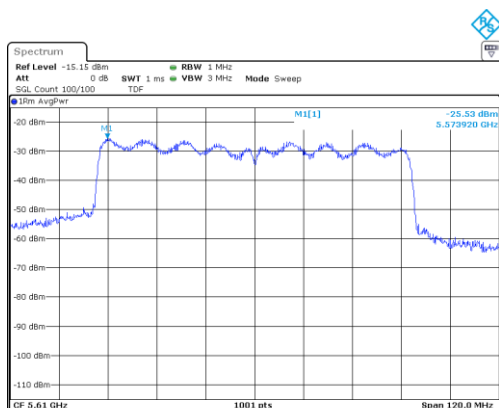
UNII-2A / 802.11ac(VHT80)/ 5 290 MHz



UNII-2C / 802.11ac(VHT80)/ 5 530 MHz



UNII-3 / 802.11ac(VHT80)/ 5 775 MHz



UNII-2C / 802.11ac(VHT80)/ 5 610 MHz

-

-



7. 26 dB Bandwidth & 99% Bandwidth

7.1 Operating environment

Temperature : 25 °C
Relative humidity : 46 %

7.2 Measurement method

Standard : §15.407(a)

7.3 Test Procedure

- ANSI C63.10-2013 Section 12.4
- KDB 789033 D02 v02r01 - Section C.1 (26 dB bandwidth)
- KDB 789033 D02 v02r01 - Section D (99% bandwidth)

Spectrum Analyzer

EUT



7.3.1 Measured Results for DC 12 V
- 26 dB Bandwidth

Modulation Type	Band	Frequency (MHz)	Measured Bandwidth (MHz)
802.11a	UNII 1	5 180	26.920
		5 200	32.970
		5 240	30.220
	UNII 2A	5 260	30.620
		5 280	32.720
		5 320	29.370
	UNII 2C	5 500	29.920
		5 600	27.470
		5 700	25.870
802.11n(HT20)	UNII 1	5 180	37.160
		5 200	37.460
		5 240	36.860
	UNII 2A	5 260	37.160
		5 280	37.010
		5 320	34.170
	UNII 2C	5 500	35.120
		5 600	26.070
		5 700	22.430
802.11n(HT40)	UNII 1	5 190	73.130
		5 230	72.030
	UNII 2A	5 270	74.430
		5 310	68.630
	UNII 2C	5 510	66.730
		5 590	53.550
		5 670	45.950
802.11ac(VHT20)	UNII 1	5 180	38.110
		5 200	38.060
		5 240	35.320
	UNII 2A	5 260	36.860
		5 280	36.410
		5 320	32.320
	UNII 2C	5 500	34.520
		5 600	26.720
		5 700	26.070
802.11ac(VHT40)	UNII 1	5 190	73.430
		5 230	72.730
	UNII 2A	5 270	72.530
		5 310	61.540
	UNII 2C	5 510	62.640
		5 590	43.560
		5 670	42.860
802.11ac(VHT80)	UNII 1	5 210	106.810
	UNII 2A	5 290	98.300
	UNII 2C	5 530	96.860
		5 610	97.220



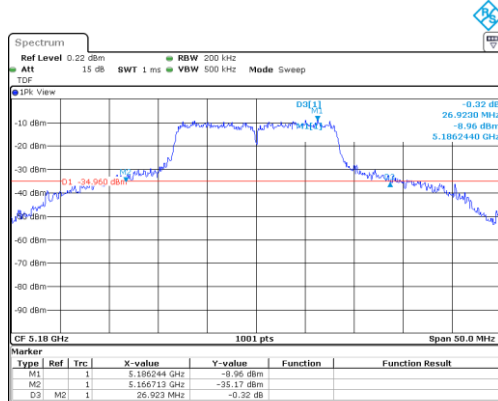
- 99% Bandwidth

Modulation Type	Band	Frequency (MHz)	Measured Bandwidth (MHz)
802.11a	UNII 1	5 180	18.080
		5 200	21.330
		5 240	19.480
	UNII 2A	5 260	21.630
		5 280	19.730
		5 320	18.280
	UNII 2C	5 500	17.580
		5 600	17.380
		5 700	17.030
	UNII 3	5 745	16.830
		5 785	16.930
		5 825	16.780
802.11n(HT20)	UNII 1	5 180	22.530
		5 200	23.080
		5 240	21.280
	UNII 2A	5 260	23.280
		5 280	22.230
		5 320	19.280
	UNII 2C	5 500	19.830
		5 600	18.180
		5 700	17.880
	UNII 3	5 745	17.880
		5 785	17.980
		5 825	17.780
802.11n(HT40)	UNII 1	5 190	38.360
		5 230	37.960
	UNII 2A	5 270	38.060
		5 310	37.160
	UNII 2C	5 510	36.960
		5 590	36.560
		5 670	36.760
	UNII 3	5 755	36.660
		5 795	37.060

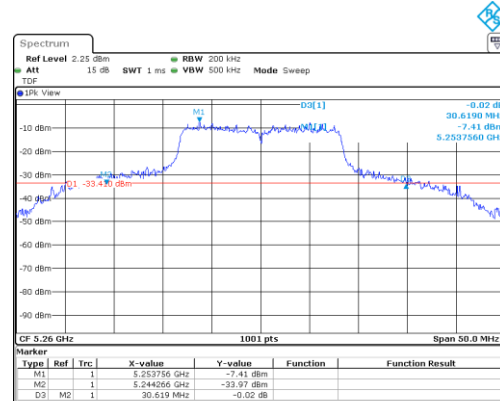


Modulation Type	Band	Frequency (MHz)	Measured Bandwidth (MHz)
802.11ac(VHT20)	UNII 1	5 180	22.930
		5 200	25.070
		5 240	21.730
	UNII 2A	5 260	22.830
		5 280	20.930
		5 320	19.280
	UNII 2C	5 500	19.880
		5 600	18.180
		5 700	18.080
	UNII 3	5 745	17.880
		5 785	18.080
		5 825	17.880
802.11ac(VHT40)	UNII 1	5 190	37.760
		5 230	37.460
		5 270	37.760
	UNII 2A	5 310	37.060
		5 510	36.960
		5 590	36.460
	UNII 2C	5 670	36.760
		5 755	36.560
		5 795	36.960
802.11ac(VHT80)	UNII 1	5 210	75.760
	UNII 2A	5 290	75.760
	UNII 2C	5 530	75.520
		5 610	75.520
	UNII 3	5 775	75.400

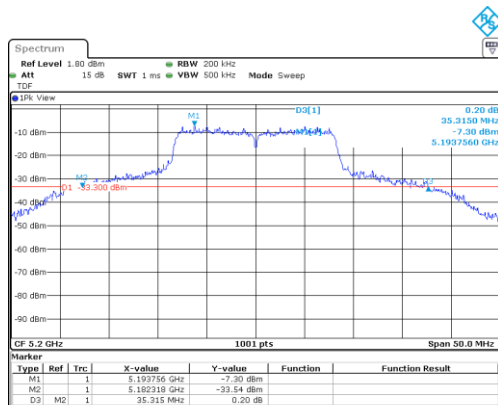
7.3.1.1 Measured Graph for 26 dB Bandwidth



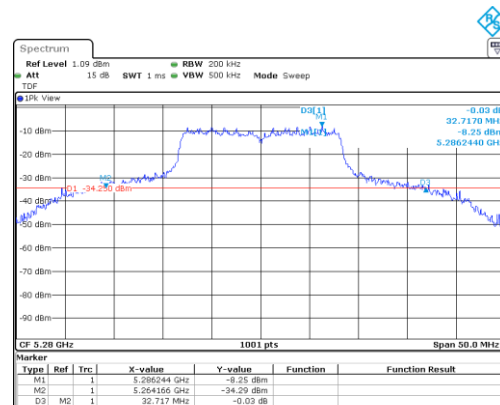
UNII-1 / 802.11a / 5 180 MHz



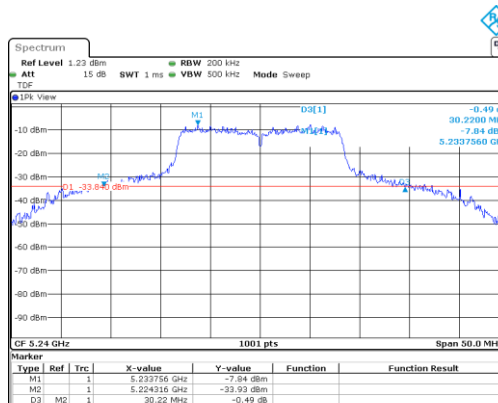
UNII-2A / 802.11a / 5 260 MHz



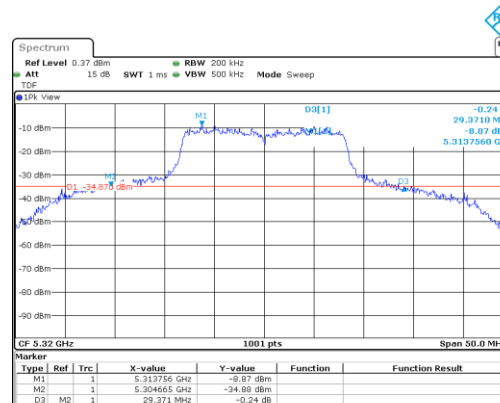
UNII-1 / 802.11a / 5 200 MHz



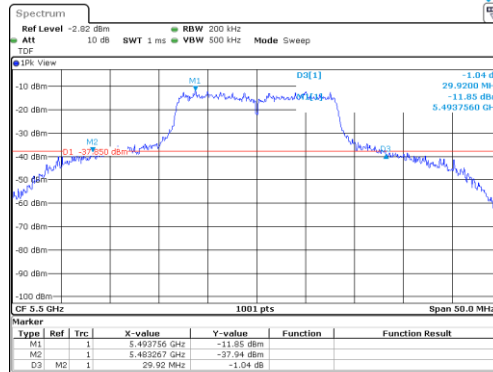
UNII-2A / 802.11a / 5 280 MHz



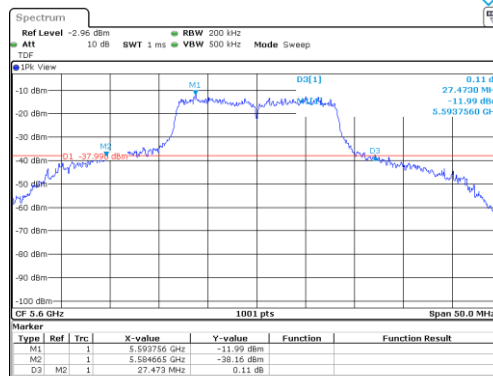
UNII-1 / 802.11a / 5 240 MHz



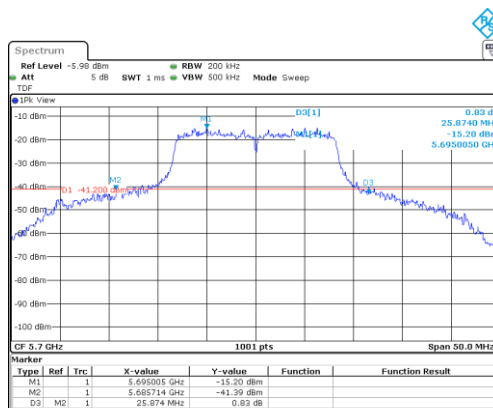
UNII-2A / 802.11a / 5 320 MHz



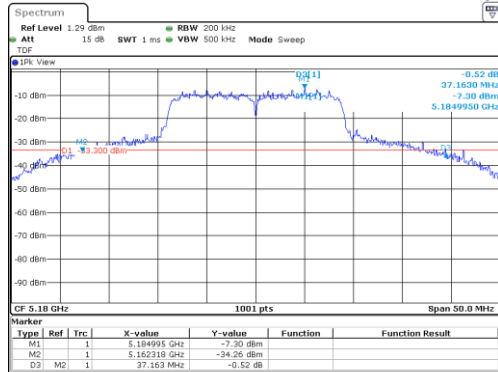
UNII-2C / 802.11a / 5 500 MHz



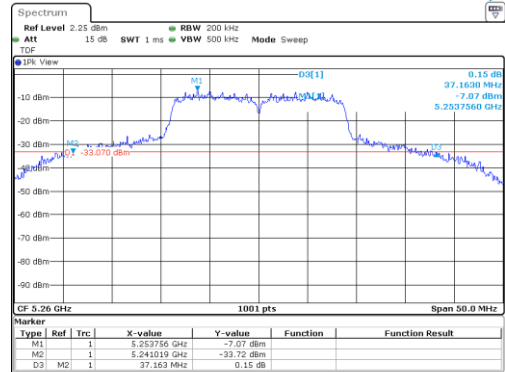
UNII-2C / 802.11a / 5 600 MHz



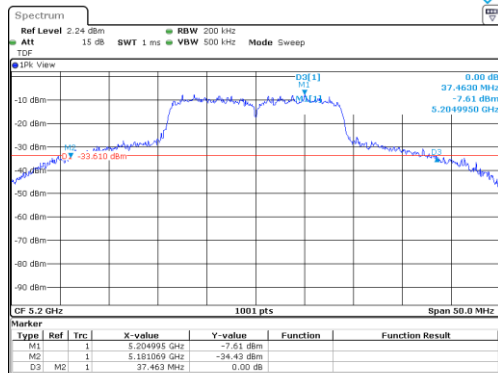
UNII-2C / 802.11a / 5 700 MHz



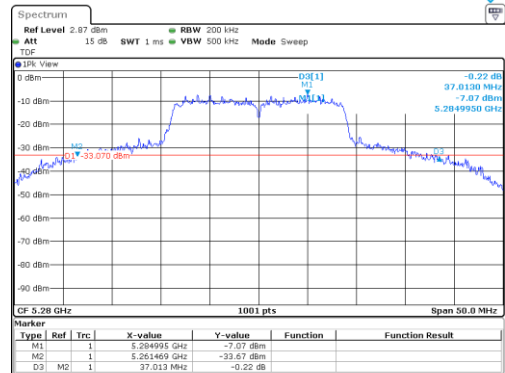
UNII-1 / 802.11n(HT20) / 5 180 MHz



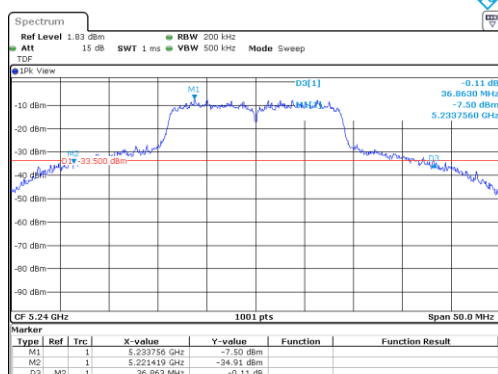
UNII-2A / 802.11n(HT20)/ 5 260 MHz



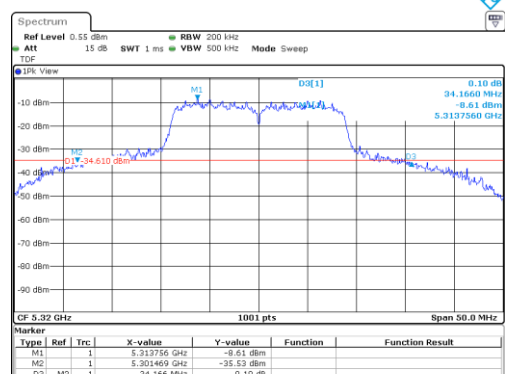
UNII-1 / 802.11n(HT20)/ 5 200 MHz



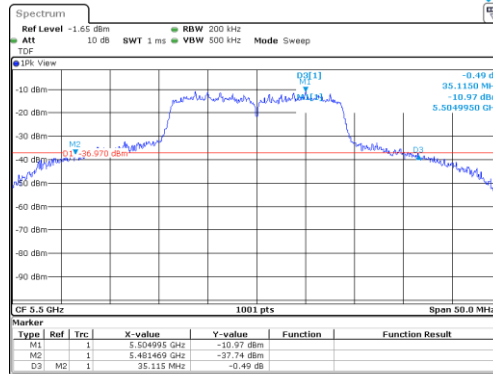
UNII-2A / 802.11n(HT20)/ 5 280 MHz



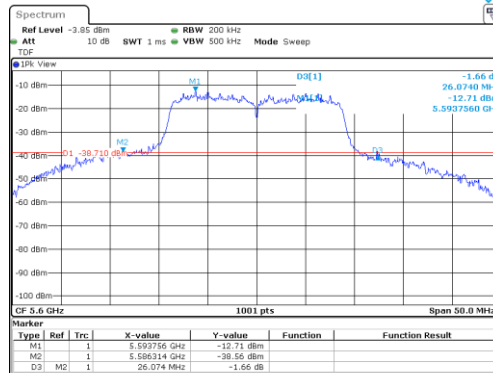
UNII-1 / 802.11n(HT20)/ 5 240 MHz



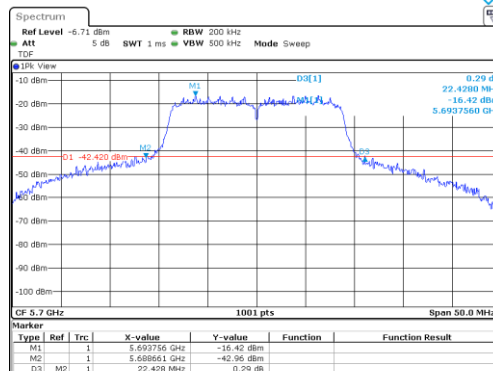
UNII-2A / 802.11n(HT20)/ 5 320 MHz



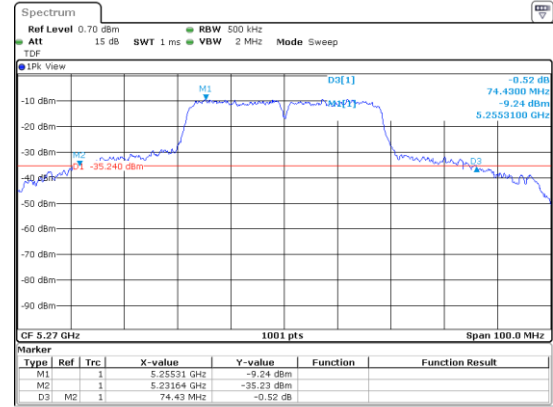
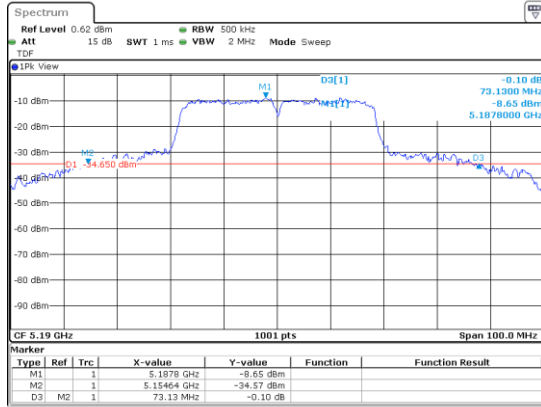
UNII-2C / 802.11n(HT20)/ 5 500 MHz



UNII-2C / 802.11n(HT20)/ 5 600 MHz

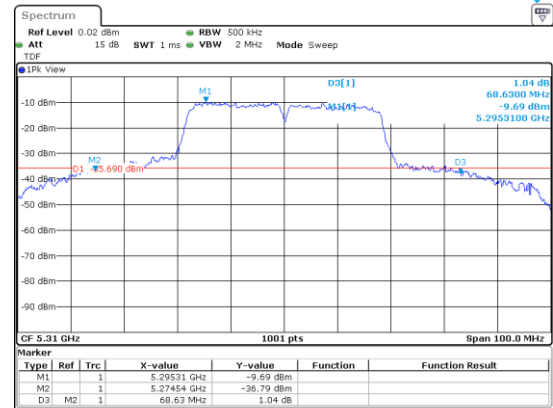
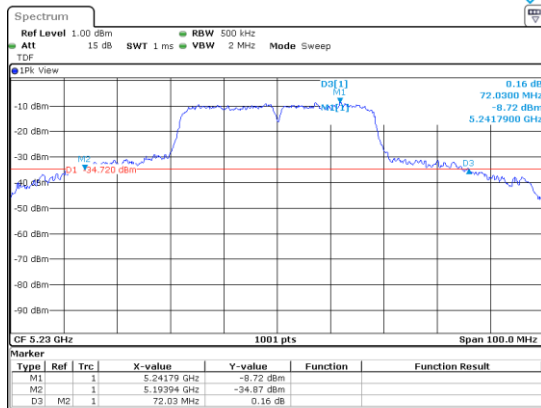


UNII-2C / 802.11n(HT20)/ 5 700 MHz



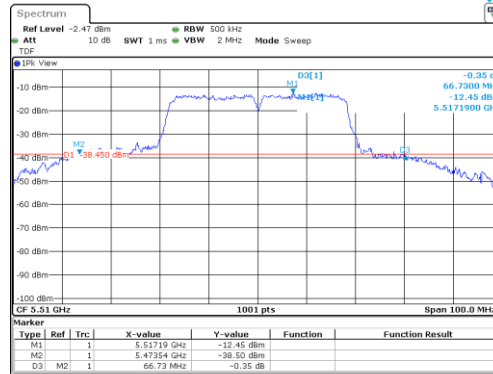
UNII-1 / 802.11n(HT40)/ 5 190 MHz

UNII-2A / 802.11n(HT40)/ 5 270 MHz

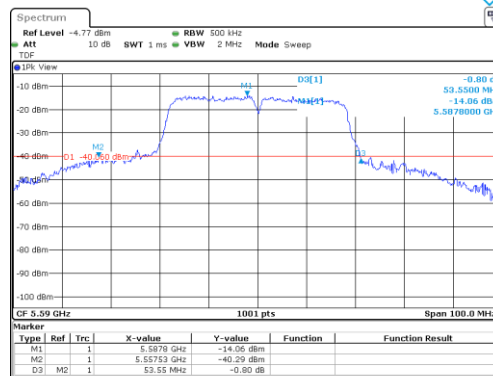


UNII-1 / 802.11n(HT40)/ 5 230 MHz

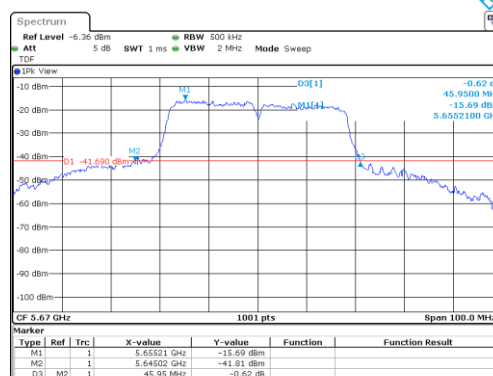
UNII-2A / 802.11n(HT40)/ 5 310 MHz



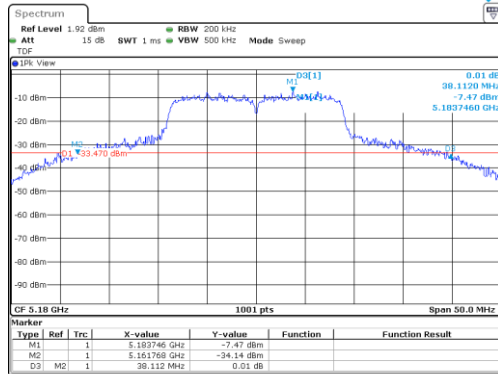
UNII-2C / 802.11n(HT40)/ 5 510 MHz



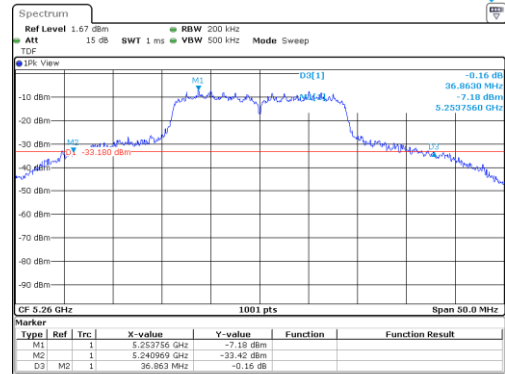
UNII-2C / 802.11n(HT40)/ 5 590 MHz



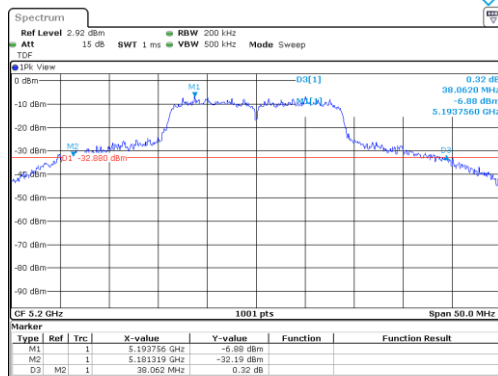
UNII-2C / 802.11n(HT40)/ 5 670 MHz



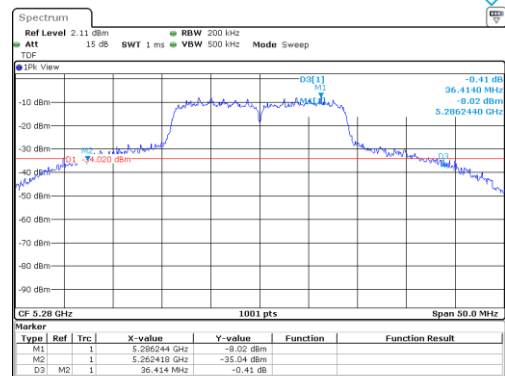
UNII-1 / 802.11ac(VHT20) / 5 180 MHz



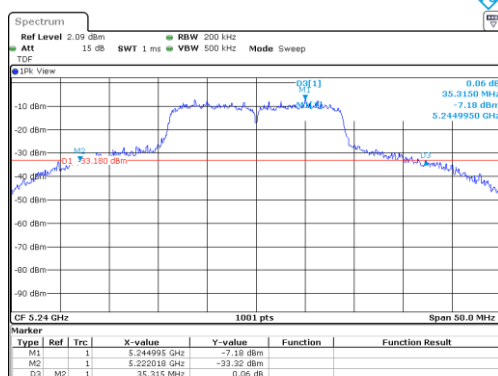
UNII-2A / 802.11ac(VHT20)/ 5 260 MHz



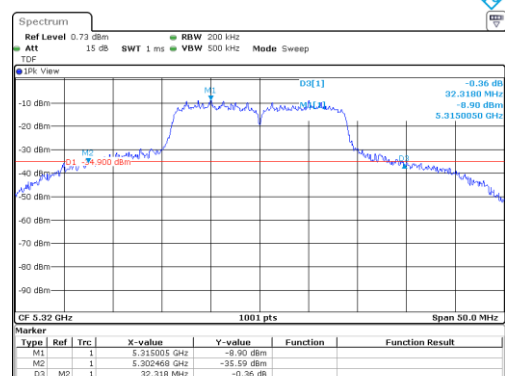
UNII-1 / 802.11ac(VHT20)/ 5 200 MHz



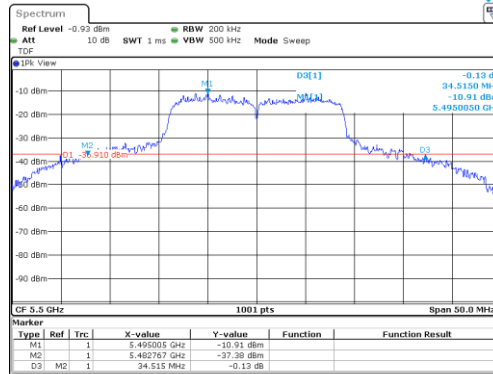
UNII-2A / 802.11ac(VHT20)/ 5 280 MHz



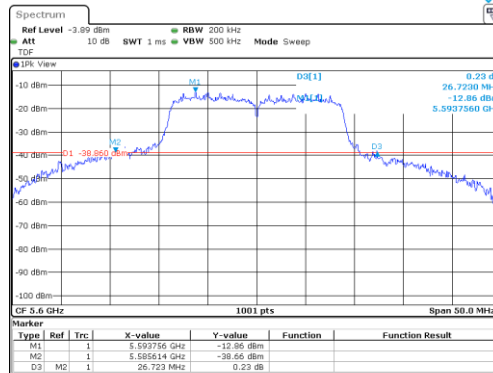
UNII-1 / 802.11ac(VHT20)/ 5 240 MHz



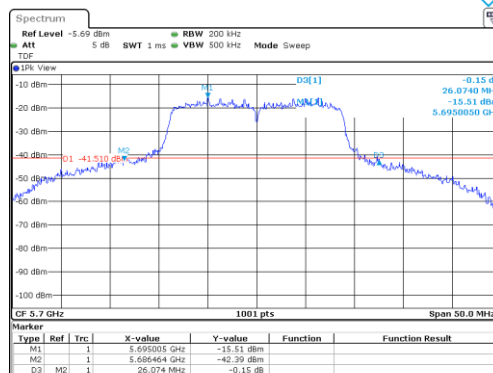
UNII-2A / 802.11ac(VHT20)/ 5 320 MHz



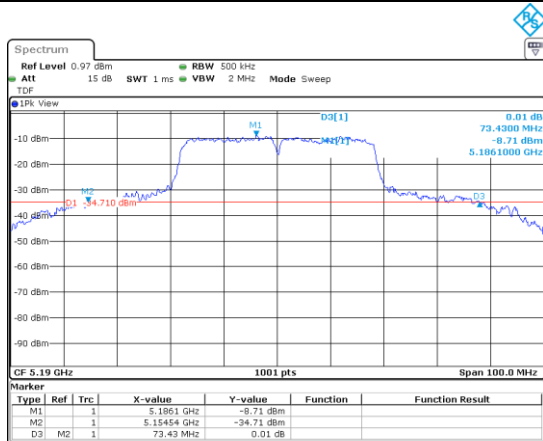
UNII-2C / 802.11ac(VHT20)/ 5 500 MHz



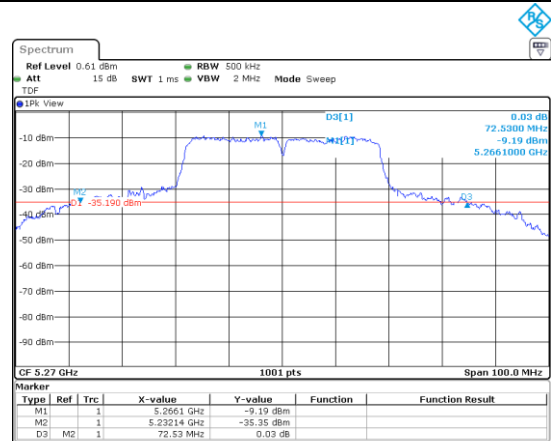
UNII-2C / 802.11ac(VHT20)/ 5 600 MHz



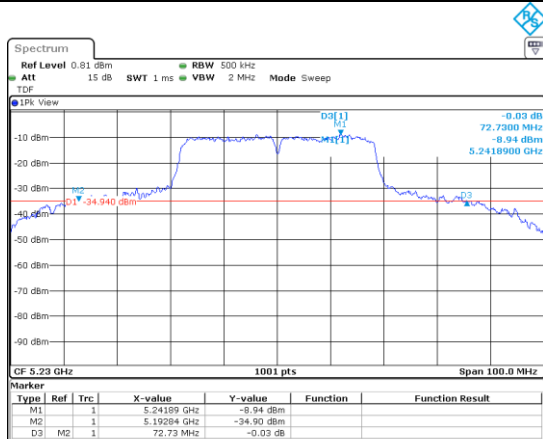
UNII-2C / 802.11ac(VHT20)/ 5 700 MHz



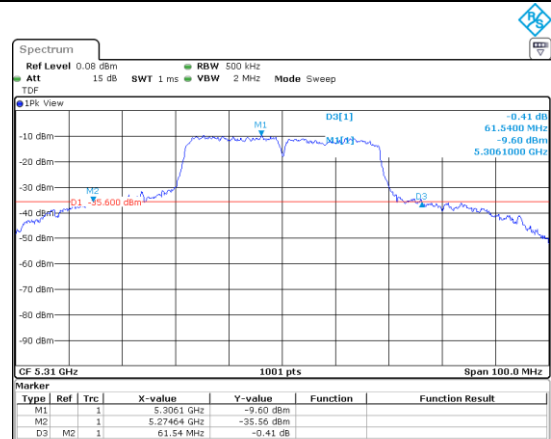
UNII-1 / 802.ac(VHT40)/ 5 190 MHz



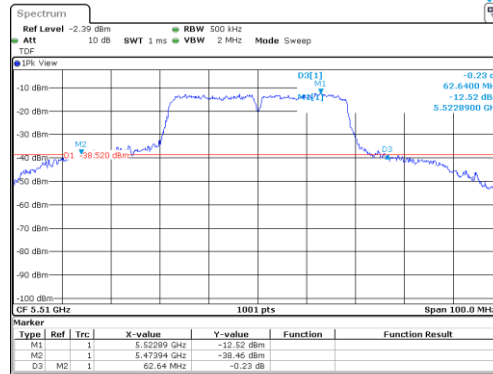
UNII-2A / 802.ac(VHT40)/ 5 270 MHz



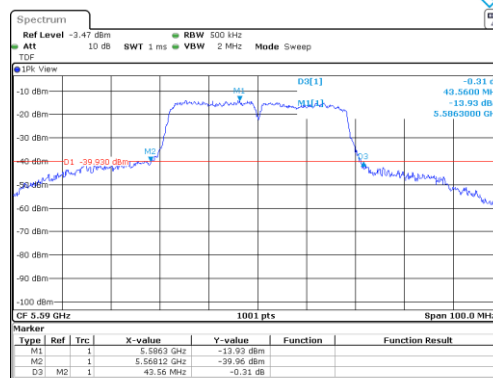
UNII-1 / 802.ac(VHT40)/ 5 230 MHz



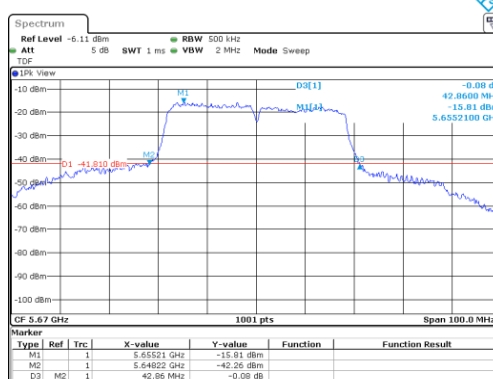
UNII-2A / 802.ac(VHT40)/ 5 310 MHz



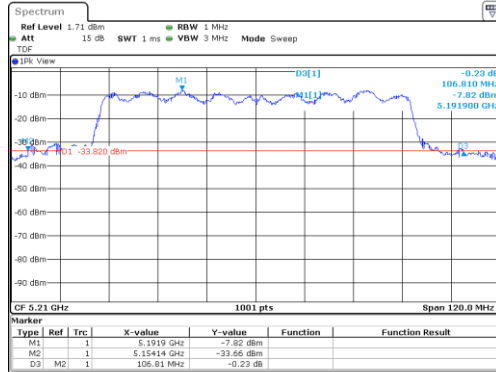
UNII-2C / 802.ac(VHT40)/ 5 510 MHz



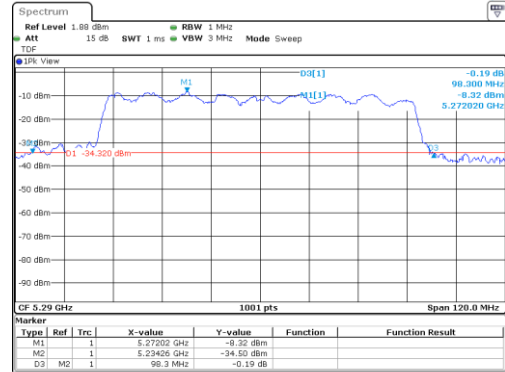
UNII-2C / 802.ac(VHT40)/ 5 590 MHz



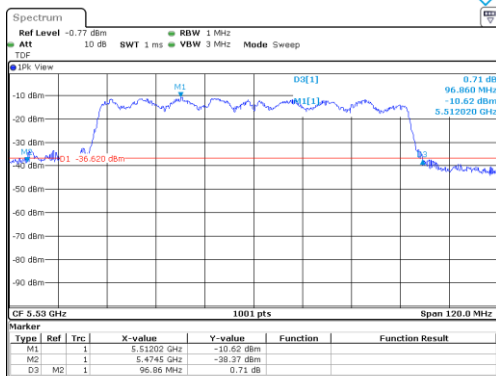
UNII-2C / 802.ac(VHT40)/ 5 670 MHz



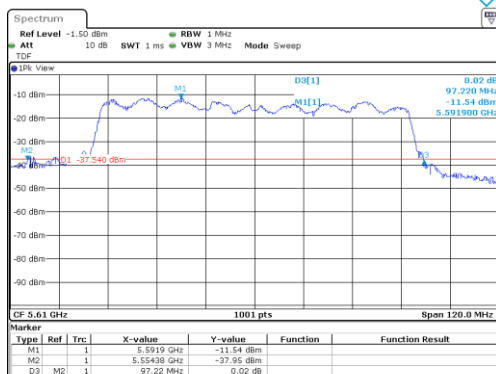
UNII-1 / 802.11ac(VHT80)/ 5 210 MHz



UNII-2A / 802.11ac(VHT80)/ 5 290 MHz



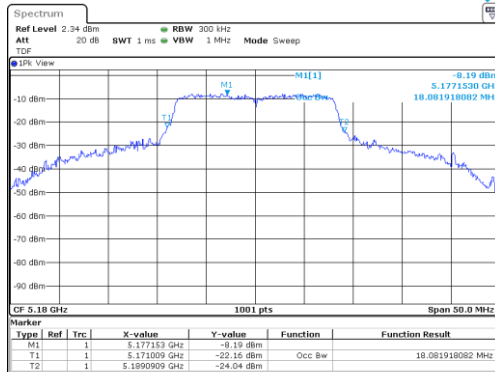
UNII-2C / 802.11ac(VHT80)/ 5 530 MHz



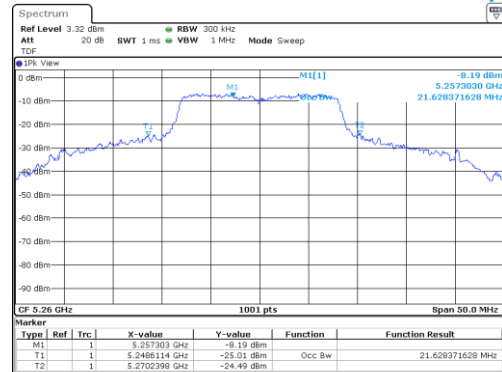
UNII-2C / 802.11ac(VHT80)/ 5 610 MHz



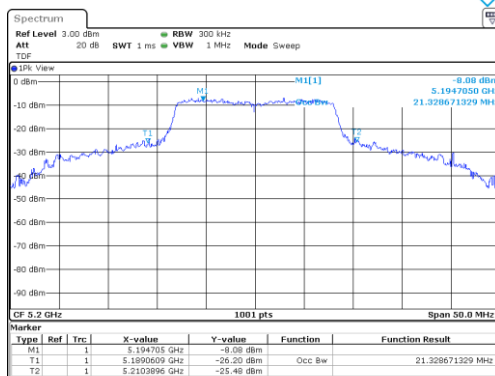
7.3.1.2 Measured Graph for 99% Bandwidth



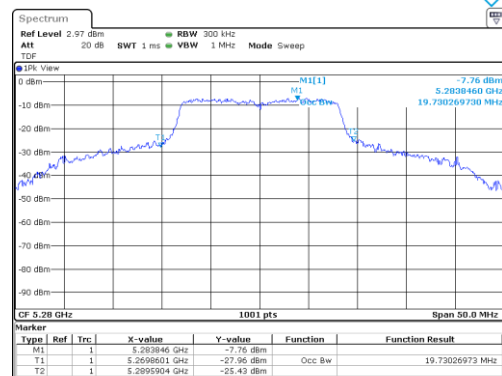
UNII-1 / 802.11a / 5 180 MHz



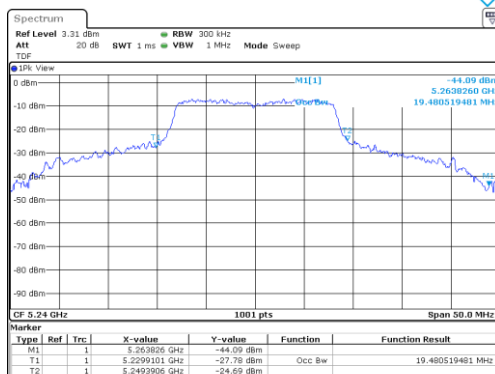
UNII-2A / 802.11a / 5 260 MHz



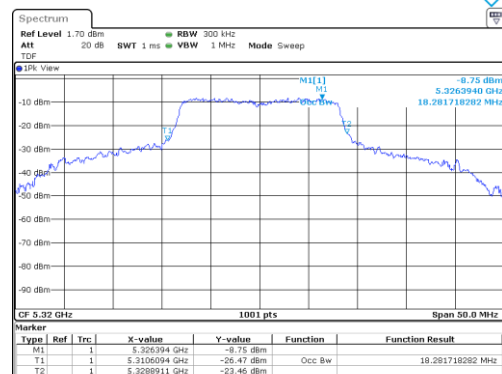
UNII-1 / 802.11a / 5 200 MHz



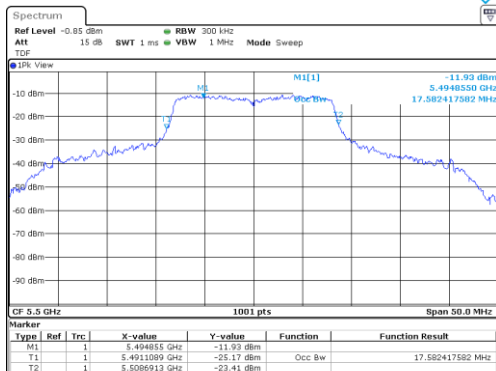
UNII-2A / 802.11a / 5 280 MHz



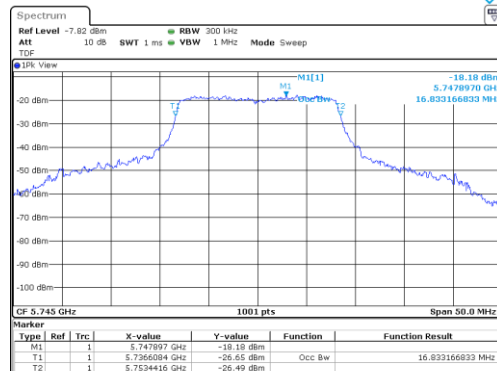
UNII-1 / 802.11a / 5 240 MHz



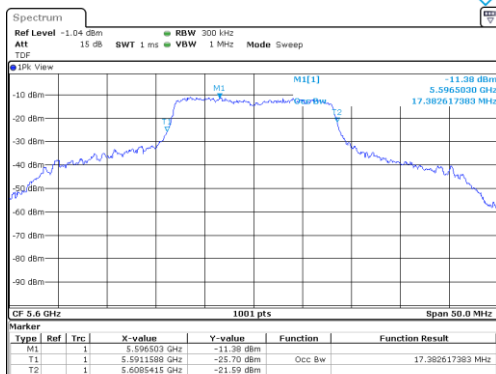
UNII-2A / 802.11a / 5 320 MHz



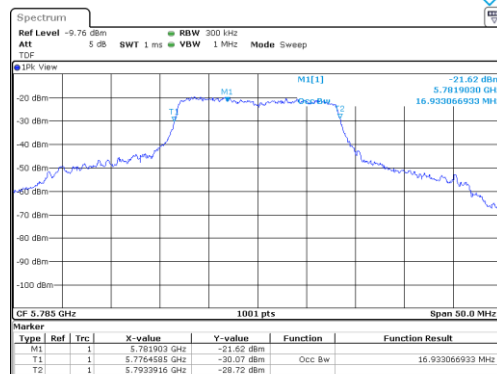
UNII-2C / 802.11a / 5 500 MHz



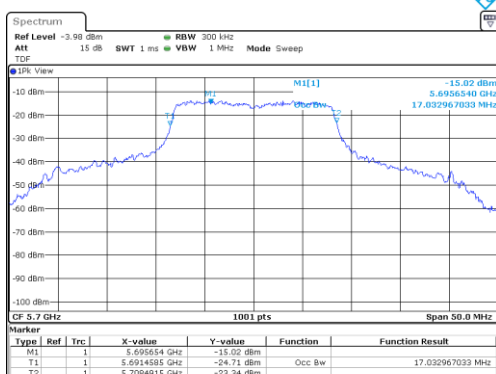
UNII-3 / 802.11a / 5 745 MHz



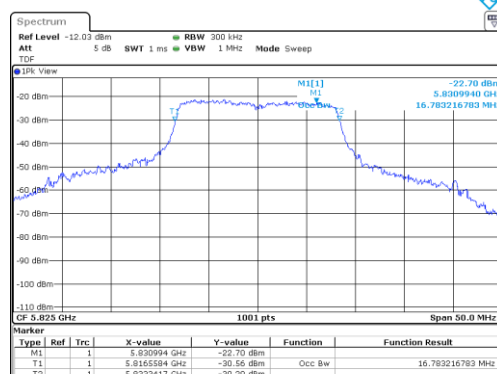
UNII-2C / 802.11a / 5 600 MHz



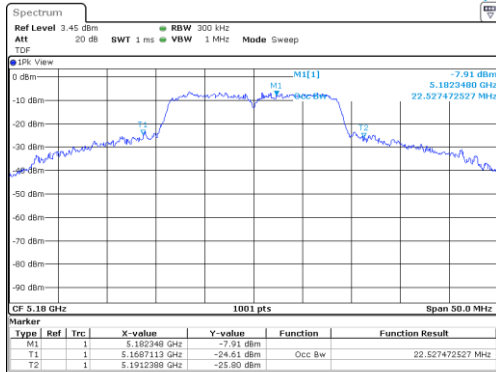
UNII-3 / 802.11a / 5 785 MHz



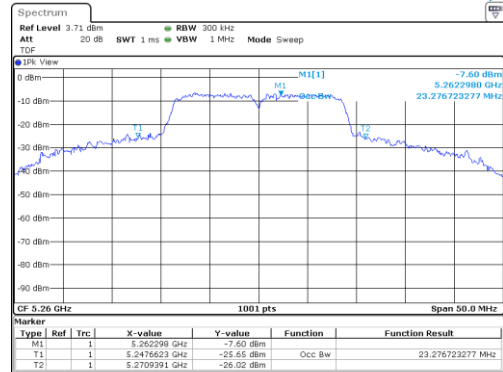
UNII-2C / 802.11a / 5 700 MHz



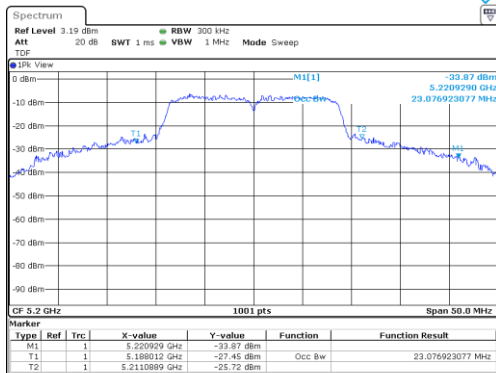
UNII-3 / 802.11a / 5 825 MHz



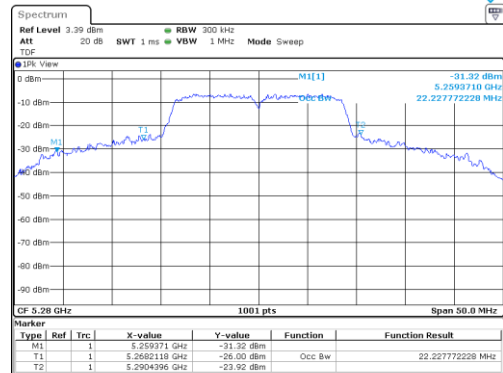
UNII-1 / 802.11n(HT20) / 5 180 MHz



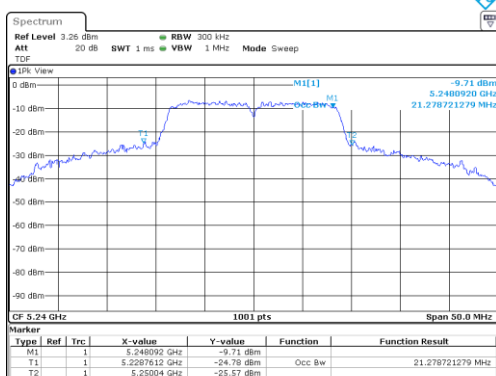
UNII-2A / 802.11n(HT20)/ 5 260 MHz



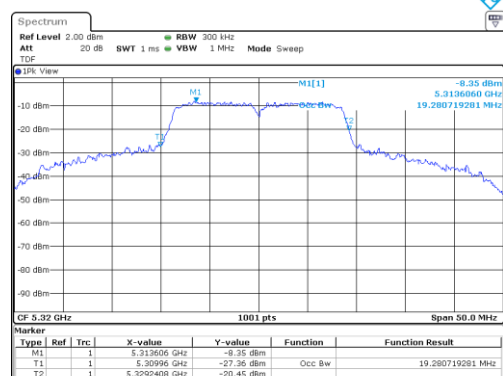
UNII-1 / 802.11n(HT20)/ 5 200 MHz



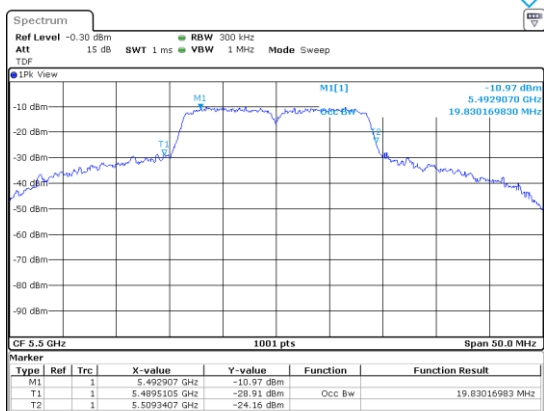
UNII-2A / 802.11n(HT20)/ 5 280 MHz



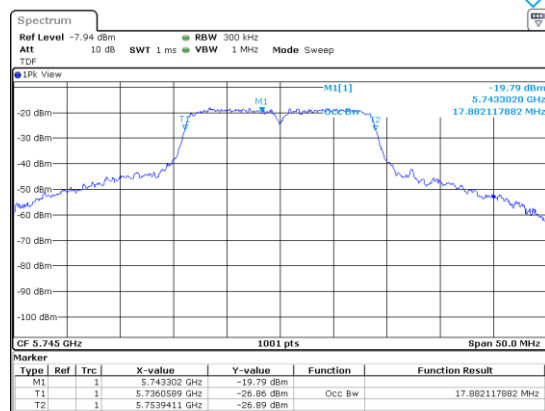
UNII-1 / 802.11n(HT20)/ 5 240 MHz



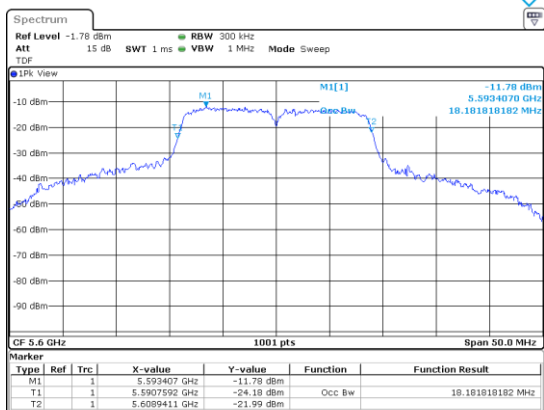
UNII-2A / 802.11n(HT20)/ 5 320 MHz



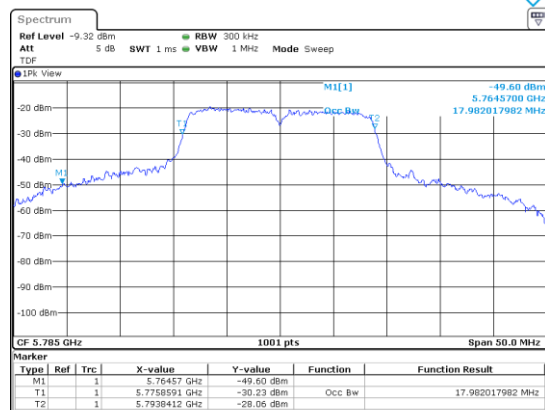
UNII-2C / 802.11n(HT20)/ 5 500 MHz



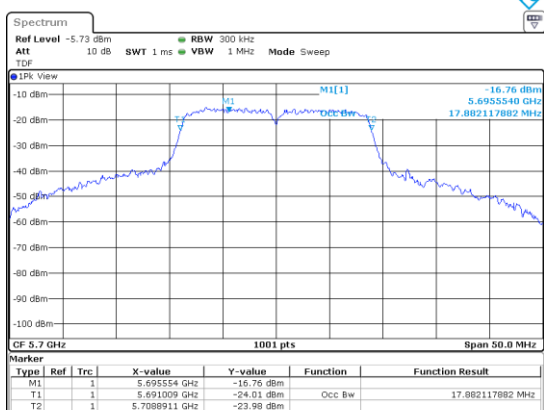
UNII-3 / 802.11n(HT20)/ 5 745 MHz



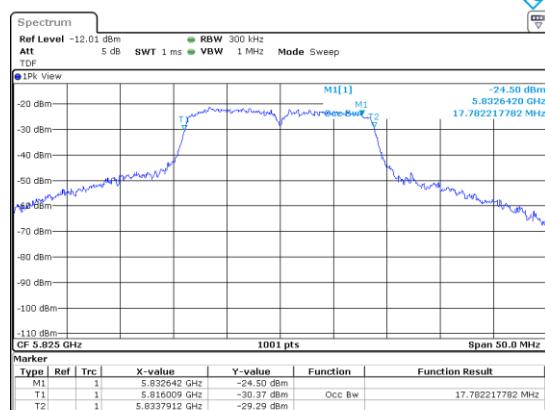
UNII-2C / 802.11n(HT20)/ 5 600 MHz



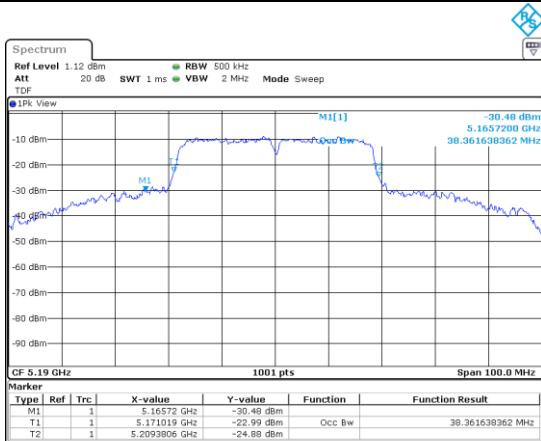
UNII-3 / 802.11n(HT20)/ 5 785 MHz



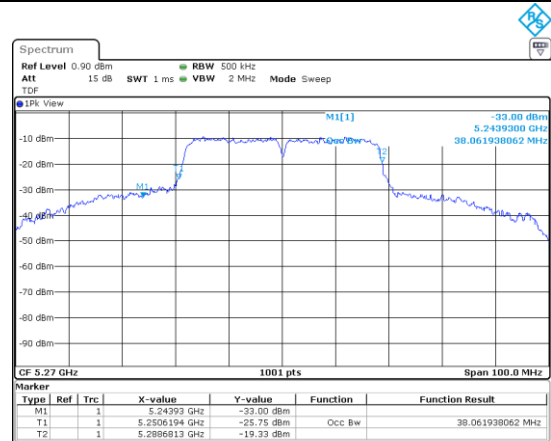
UNII-2C / 802.11n(HT20)/ 5 700 MHz



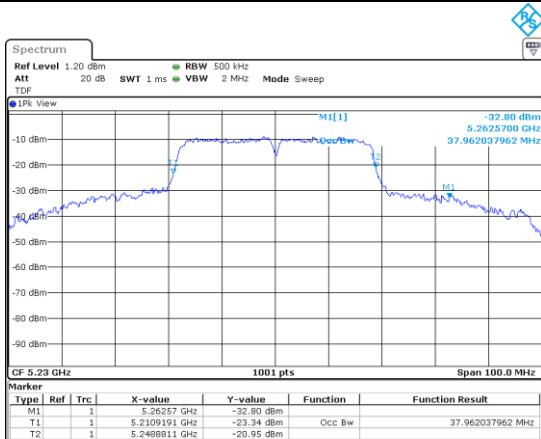
UNII-3 / 802.11n(HT20)/ 5 825 MHz



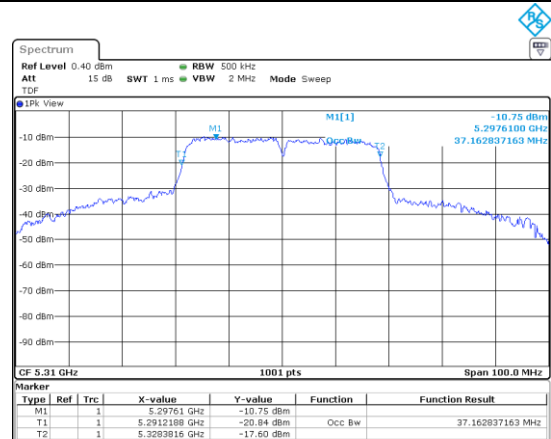
UNII-1 / 802.11n(HT40)/ 5 190 MHz



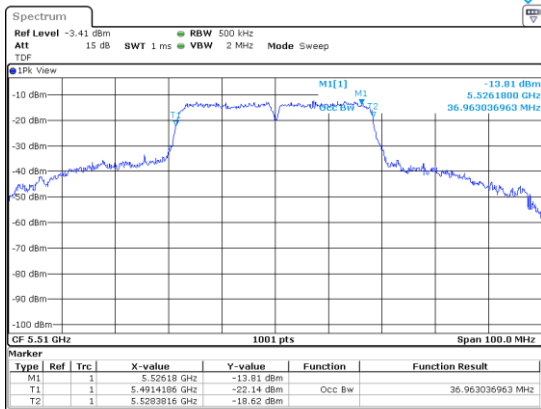
UNII-2A / 802.11n(HT40)/ 5 270 MHz



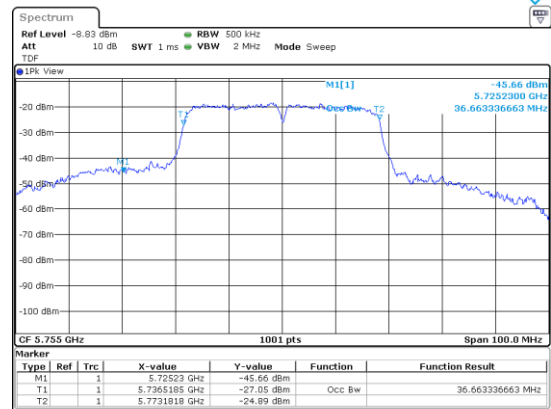
UNII-1 / 802.11n(HT40)/ 5 230 MHz



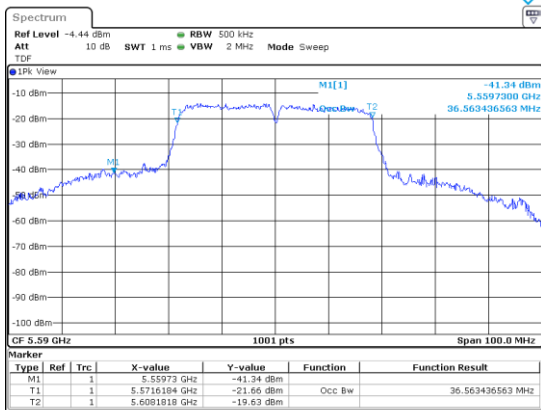
UNII-2A / 802.11n(HT40)/ 5 310 MHz



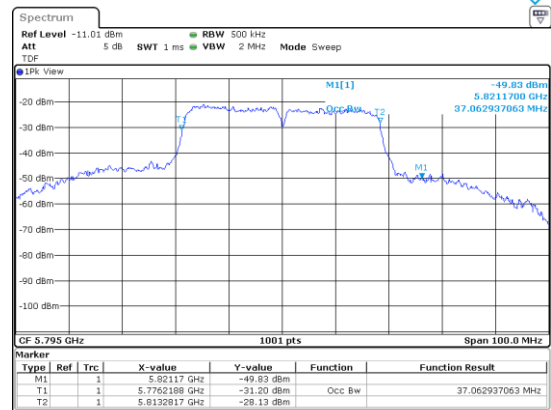
UNII-2C / 802.11n(HT40)/ 5 510 MHz



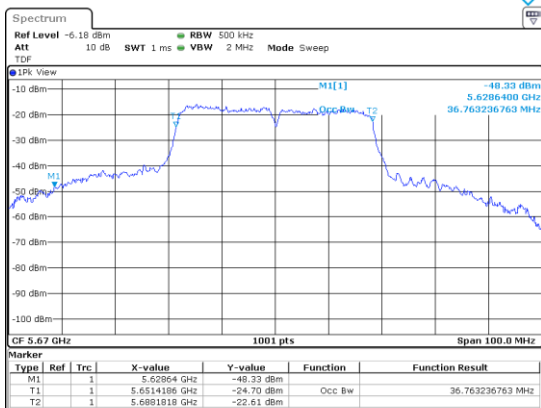
UNII-3 / 802.11n(HT40)/ 5 755 MHz



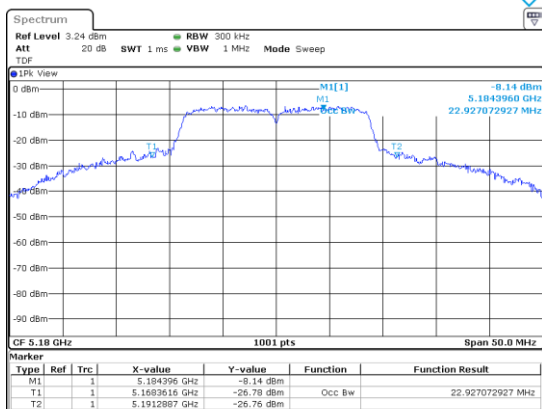
UNII-2C / 802.11n(HT40)/ 5 590 MHz



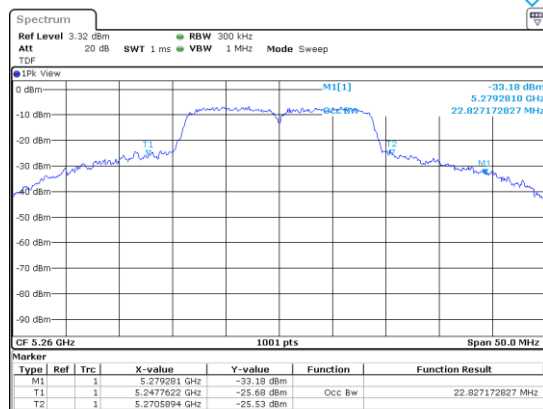
UNII-3 / 802.11n(HT40)/ 5 795 MHz



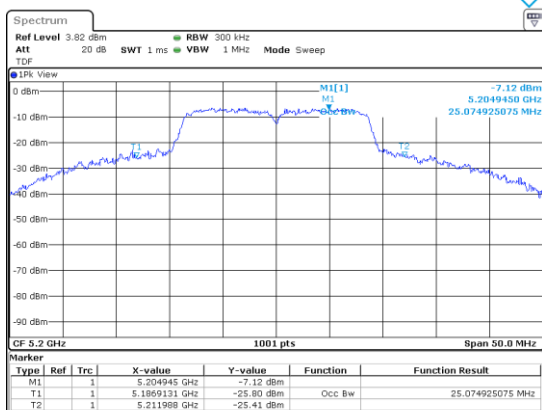
UNII-2C / 802.11n(HT40)/ 5 670 MHz



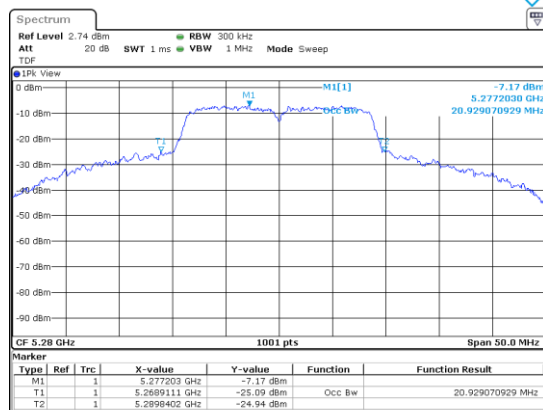
UNII-1 / 802.11ac(VHT20) / 5 180 MHz



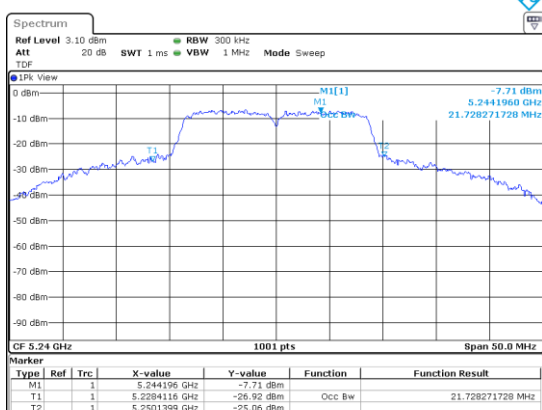
UNII-2A / 802.11ac(VHT20)/ 5 260 MHz



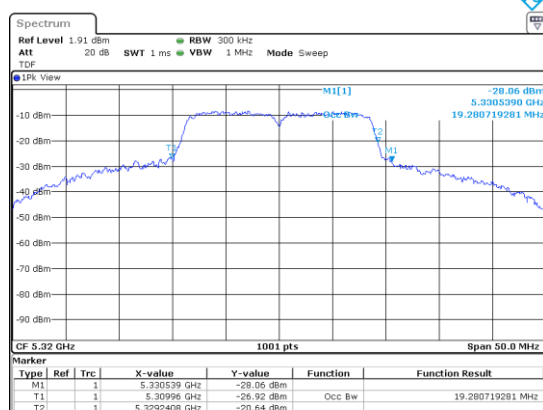
UNII-1 / 802.11ac(VHT20)/ 5 200 MHz



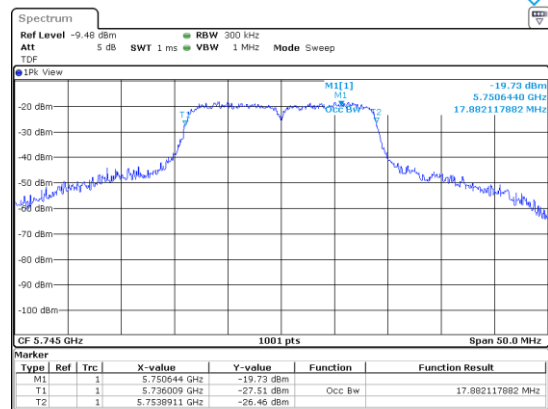
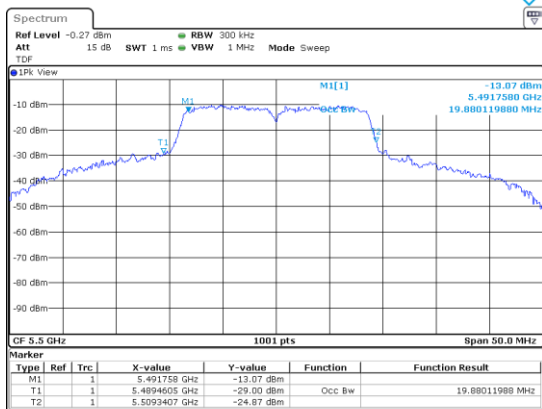
UNII-2A / 802.11ac(VHT20)/ 5 280 MHz



UNII-1 / 802.11ac(VHT20)/ 5 240 MHz

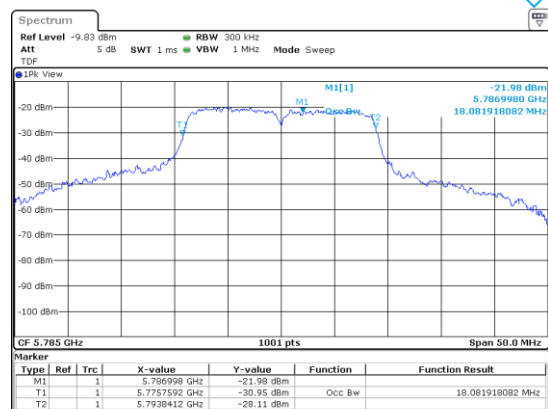
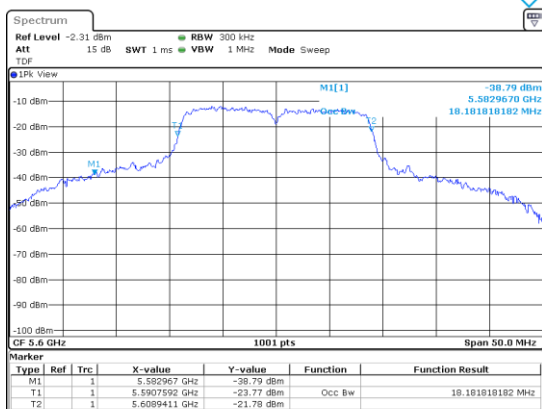


UNII-2A / 802.11ac(VHT20)/ 5 320 MHz



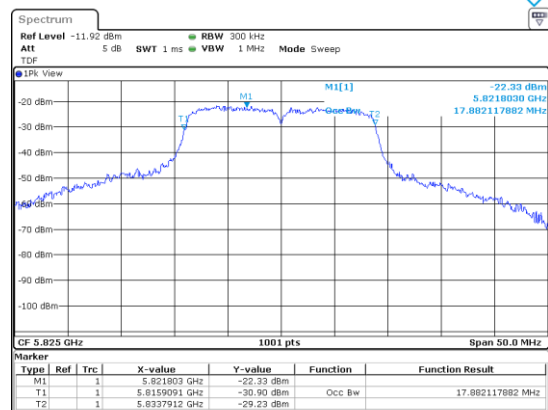
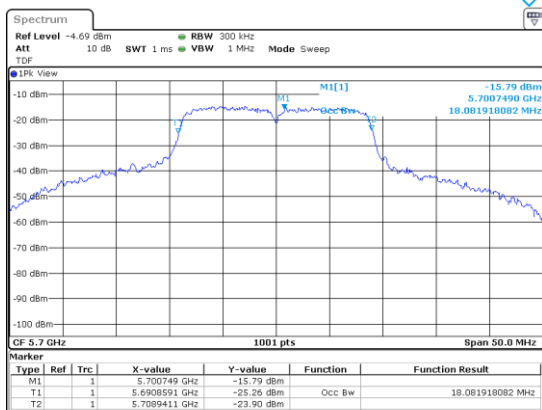
UNII-2C / 802.11ac(VHT20)/ 5 500 MHz

UNII-3 / 802.11ac(VHT20)/ 5 745 MHz



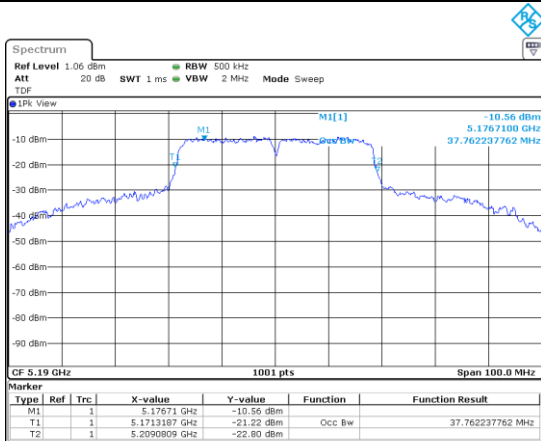
UNII-2C / 802.11ac(VHT20)/ 5 600 MHz

UNII-3 / 802.11ac(VHT20)/ 5 785 MHz

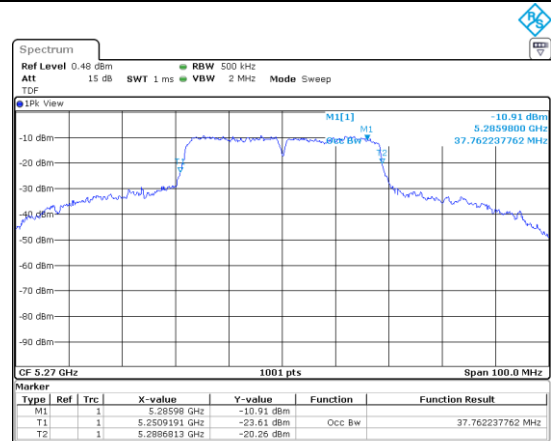


UNII-2C / 802.11ac(VHT20)/ 5 700 MHz

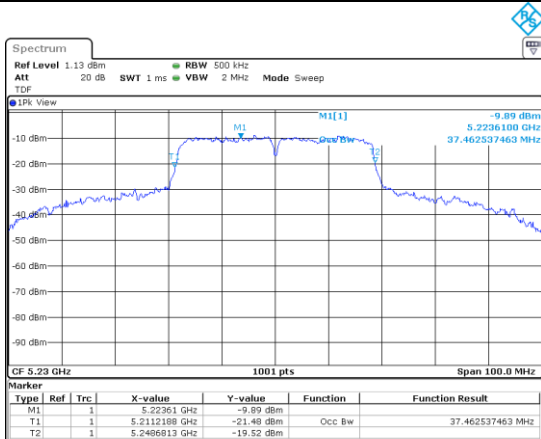
UNII-3 / 802.11ac(VHT20)/ 5 825 MHz



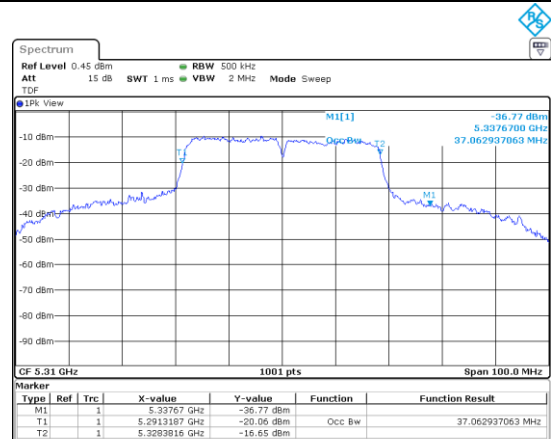
UNII-1 / 802.ac(VHT40)/ 5 190 MHz



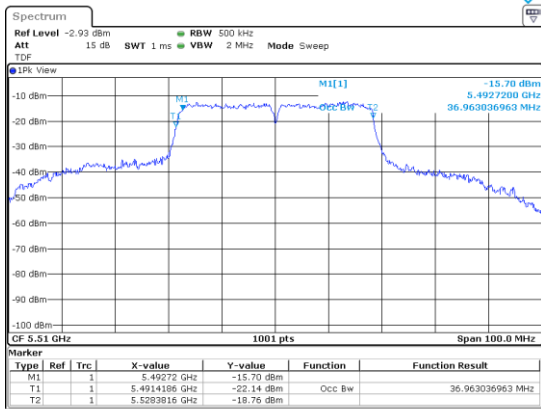
UNII-2A / 802.ac(VHT40)/ 5 270 MHz



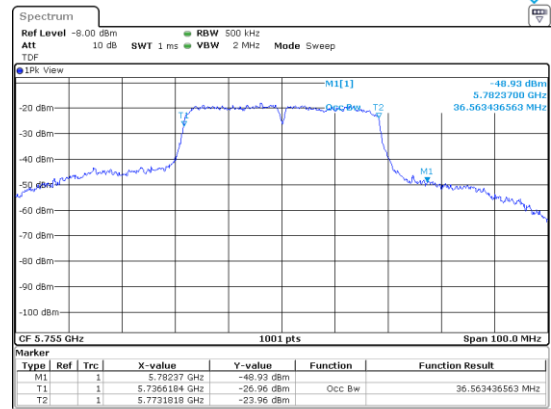
UNII-1 / 802.ac(VHT40)/ 5 230 MHz



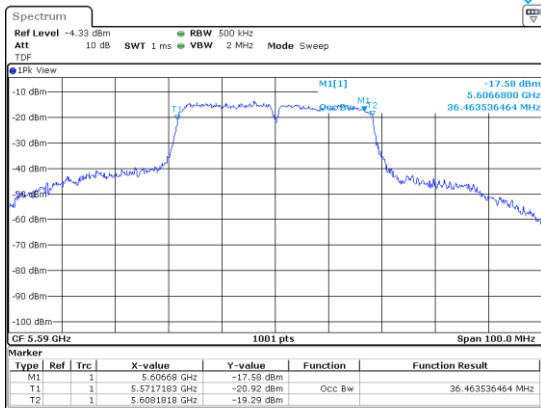
UNII-2A / 802.ac(VHT40)/ 5 310 MHz



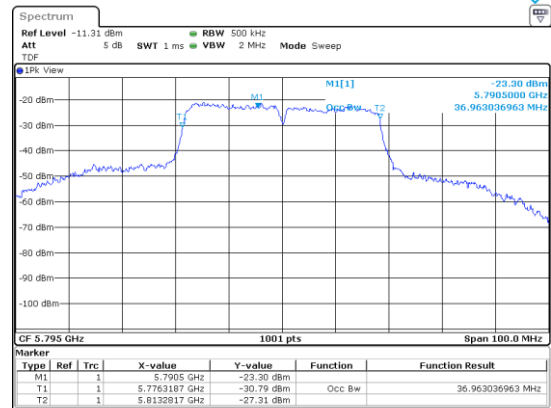
UNII-2C / 802.ac(VHT40)/ 5 510 MHz



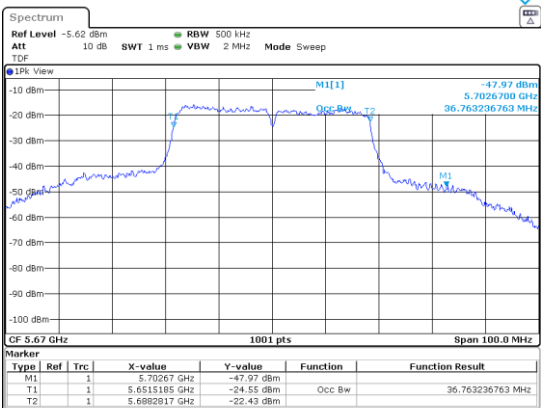
UNII-3 / 802.ac(VHT40)/ 5 755 MHz



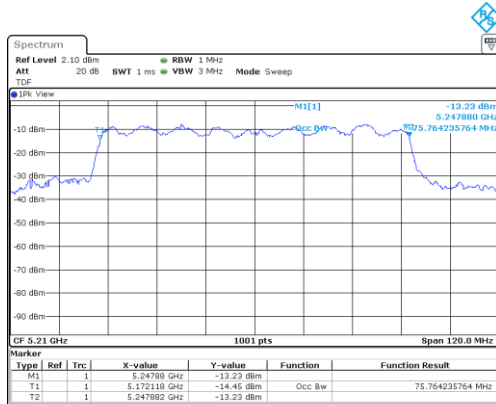
UNII-2C / 802.ac(VHT40)/ 5 590 MHz



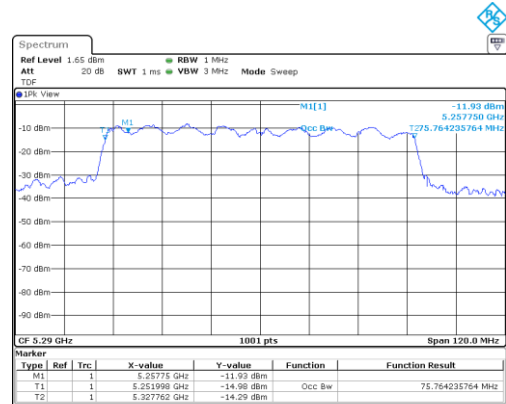
UNII-3 / 802.ac(VHT40)/ 5 795 MHz



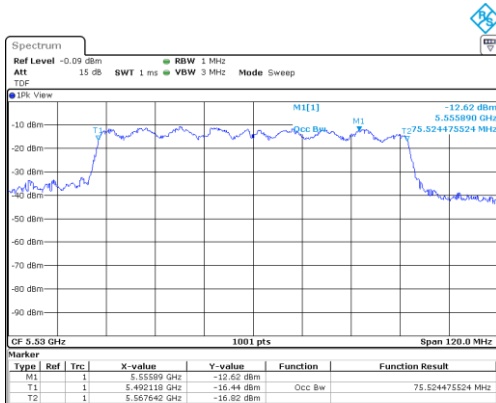
UNII-2C / 802.ac(VHT40)/ 5 670 MHz



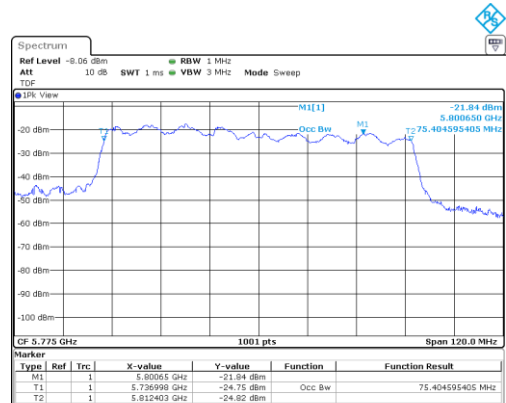
UNII-1 / 802.ac(VHT80)/ 5 210 MHz



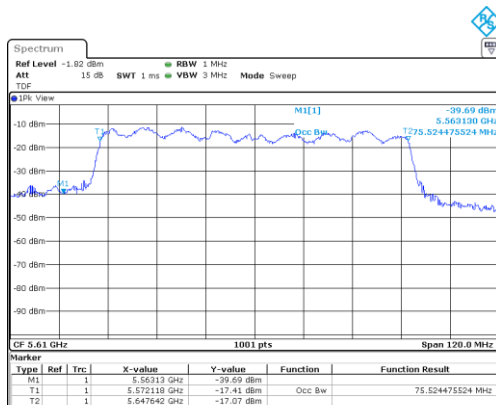
UNII-2A / 802.ac(VHT80)/ 5 290 MHz



UNII-2C / 802.ac(VHT80)/ 5 530 MHz



UNII-3 / 802.ac(VHT80)/ 5 775 MHz



UNII-2C / 802.ac(VHT80)/ 5 610 MHz

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7.3.2 Measured Results for DC 24 V
- 26 dB Bandwidth

Modulation Type	Band	Frequency (MHz)	Measured Bandwidth (MHz)
802.11a	UNII 1	5 180	34.920
		5 200	35.320
		5 240	34.170
	UNII 2A	5 260	35.610
		5 280	34.570
		5 320	31.820
	UNII 2C	5 500	32.370
		5 600	27.320
		5 700	32.520
802.11n(HT20)	UNII 1	5 180	37.410
		5 200	36.310
		5 240	34.870
	UNII 2A	5 260	35.660
		5 280	36.110
		5 320	32.070
	UNII 2C	5 500	34.920
		5 600	26.020
		5 700	24.480
802.11n(HT40)	UNII 1	5 190	73.830
		5 230	72.730
	UNII 2A	5 270	74.030
		5 310	64.940
	UNII 2C	5 510	65.230
		5 590	49.750
		5 670	45.750
802.11ac(VHT20)	UNII 1	5 180	36.960
		5 200	37.310
		5 240	33.820
	UNII 2A	5 260	37.860
		5 280	33.520
		5 320	32.120
	UNII 2C	5 500	33.270
		5 600	27.270
		5 700	26.370
802.11ac(VHT40)	UNII 1	5 190	75.020
		5 230	75.920
	UNII 2A	5 270	72.230
		5 310	61.640
	UNII 2C	5 510	61.940
		5 590	42.860
802.11ac(VHT80)	UNII 1	5 190	75.020
		5 230	75.920
	UNII 2A	5 270	72.230
		5 310	61.640
802.11ac(VHT80)	UNII 2C	5 510	61.940
		5 590	42.860
	UNII 2C	5 670	42.760
		5 670	42.760
802.11ac(VHT80)	UNII 1	5 210	106.810
		5 290	98.780
	UNII 2A	5 290	98.780
		5 330	97.580
802.11ac(VHT80)	UNII 2C	5 530	97.580
		5 610	96.860