Test mode: 11n_HT40

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Measured PPSD (㏈ m)	Duty Cycle Correction Factor (㏈)	Final PPSD (㏈ m)	Limit (㏈ m/1 ㎒)
U-NII 1	5 190	38	MCS2	-8.46	1.50	-6.96	11
	5 230	46		-8.51		-7.01	
U-NII 2A	5 270	54		-8.54		-7.04	
	5 310	62		-7.56		-6.06	
U-NII 2C	5 510	102		-8.44		-6.94	
	5 550	110		-8.56		-7.06	
	5 670	134		-7.44		-5.94	
Band	**Frequency (㎒)**	**Ch.**	**Data Rate (Mbps)**	**Measured PPSD (㏈ m)**	**Duty Cycle Correction Factor (㏈)**	**Final PPSD (㏈ m)**	**Limit (㏈ m/500 ㎑)**
U-NII 3	5 755	151	MCS2	-10.46	1.50	-8.96	30
	5 795	159		-10.45		-8.95	

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Final PPSD (㏈ m)	Antenna Gain (㏈ i)	E.I.R.P. PPSD (㏈ m)	IC Limit (㏈ m/1 ㎒)
U-NII 1	5 190	38	MCS2	-6.96	1.90	-5.06	10
	5 230	46		-7.01		-5.11	
U-NII 2A	5 270	54		-7.04	2.92	-4.12	N/A
	5 310	62		-6.06		-3.14	
U-NII 2C	5 510	102		-6.94	3.55	-3.39	
	5 550	110		-7.06		-3.51	
	5 670	134		-5.94		-2.39	
U-NII 3	5 755	151		-8.96	3.32	-5.64	
	5 795	159		-8.95		-5.63	

Remark;

1. Final PPSD (㏈ m) = Measured PPSD (㏈ m) + Duty Cycle Correction Factor (㏈)
2. E.I.R.P. PPSD (㏈ m) = Final PPSD (㏈ m) + Antenna Gain (㏈ i)

Test mode: 11ac_VHT80

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Measured PPSD (㏈ m)	Duty Cycle Correction Factor (㏈)	Final PPSD (㏈ m)	Limit (㏈ m/1 ㎒)
U-NII 1	5 210	42	MCS1	-11.57	1.88	-9.69	11
U-NII 2A	5 290	58		-11.82		-9.94	
U-NII 2C	5 530	106		-11.91		-10.03	
Band	**Frequency (㎒)**	**Ch.**	**Data Rate (Mbps)**	**Measured PPSD (㏈ m)**	**Duty Cycle Correction Factor (㏈)**	**Final PPSD (㏈ m)**	**Limit (㏈ m/500 ㎑)**
U-NII 3	5 775	155	MCS1	-14.22	1.88	-12.34	30

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Final PPSD (㏈ m)	Antenna Gain (㏈ i)	E.I.R.P. PPSD (㏈ m)	IC Limit (㏈ m/1 ㎒)
U-NII 1	5 210	42	MCS1	-9.69	1.90	-7.79	10
U-NII 2A	5 290	58		-9.94	2.92	-7.02	N/A
U-NII 2C	5 530	106		-10.03	3.55	-6.48	
U-NII 3	5 775	155		-12.34	3.32	-9.02	

Remark;

1. Final PPSD (㏈ m) = Measured PPSD (㏈ m) + Duty Cycle Correction Factor (㏈)
2. E.I.R.P. PPSD (㏈ m) = Final PPSD (㏈ m) + Antenna Gain (㏈ i)

Band-crossing channels

Mode	Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Measured PPSD (㏈ m)	Duty Cycle Correction Factor (㏈)	Final PPSD (㏈ m)	Limit (㏈ m/1 ㎒ or ㏈ m/500 ㎑)
11a	U-NII 2C	5 720	144	6	-3.14	0.29	-2.85	11
	U-NII 3				-8.14		-7.85	30
11ac_VHT20	U-NII 2C	5 720	144	MCS2	-4.00	0.84	-3.16	11
	U-NII 3				-8.53		-7.69	30
11n_HT40	U-NII 2C	5 710	142	MCS2	-7.86	1.50	-6.36	11
	U-NII 3				-13.03		-11.53	30
11ac_VHT80	U-NII 2C	5 690	138	MCS1	-11.61	1.88	-9.73	11
	U-NII 3				-16.60		-14.72	30

Remark;

1. Final PPSD (㏈ m) = Measured PPSD (㏈ m) + Duty Cycle Correction Factor (㏈)

- MIMO

Test mode: 11n_HT20

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0 Measured PPSD (㏈ m)	Core 1 Measured PPSD (㏈ m)	Core 0+Core 1 PPSD (㏈ m)
U-NII 1	5 180	36	MCS13	-11.52	-12.21	-8.84
	5 220	44		-11.59	-11.90	-8.73
	5 240	48		-11.48	-11.31	-8.38
U-NII 2A	5 260	52		-11.83	-11.80	-8.80
	5 300	60		-12.17	-11.71	-8.92
	5 320	64		-12.54	-11.84	-9.17
U-NII 2C	5 500	100		-12.29	-11.88	-9.07
	5 580	116		-11.34	-11.93	-8.61
	5 700	140		-10.66	-10.92	-7.78
U-NII 3	5 745	149		-13.90	-13.76	-10.82
	5 785	157		-13.51	-14.08	-10.78
	5 825	165		-12.73	-13.75	-10.20

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (㏈ m)	Duty Cycle Correction Factor (㏈)	Core 0+Core 1 Final PPSD (㏈ m)	Limit (㏈ m/1 ㎒)
U-NII 1	5 180	36	MCS13	-8.84	2.61	-6.23	11
	5 220	44		-8.73		-6.12	
	5 240	48		-8.38		-5.77	
U-NII 2A	5 260	52		-8.80		-6.19	
	5 300	60		-8.92		-6.31	
	5 320	64		-9.17		-6.56	
U-NII 2C	5 500	100		-9.07		-6.46	
	5 580	116		-8.61		-6.00	
	5 700	140		-7.78		-5.17	
Band	**Frequency (㎒)**	**Ch.**	**Data Rate (Mbps)**	**Core 0+Core 1 PPSD (㏈ m)**	**Duty Cycle Correction Factor (㏈)**	**Core 0+Core 1 Final PPSD (㏈ m)**	**Limit (㏈ m/500 ㎑)**
U-NII 3	5 745	149	MCS13	-10.82	2.61	-8.21	29.81
	5 785	157		-10.78		-8.17	
	5 825	165		-10.20		-7.59	

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0+Core 1 Final PPSD (㏈ m)	Antenna Gain (㏈ i)	Core 0+Core 1 E.I.R.P. PPSD (㏈ m)	IC Limit (㏈ m/1 ㎒)
U-NII 1	5 180	36	MCS13	-6.23	4.80	-1.43	10
	5 220	44		-6.12		-1.32	
	5 240	48		-5.77		-0.97	
U-NII 2A	5 260	52		-6.19	5.33	-0.86	N/A
	5 300	60		-6.31		-0.98	
	5 320	64		-6.56		-1.23	
U-NII 2C	5 500	100		-6.46	5.99	-0.47	
	5 580	116		-6.00		-0.01	
	5 700	140		-5.17		0.82	
U-NII 3	5 745	149		-8.21	6.19	-2.02	
	5 785	157		-8.17		-1.98	
	5 825	165		-7.59		-1.40	

Remark;

1. According to KDB 662911, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.

   - PPSD: 10 log {10^(Core 0 PSD / 10)+10^(Core 1 PSD / 10)}
   - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N ㏈ i
   (i) If transmit signals are correlated, then
   Directional gain = 10 log[$(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/N_{ANT}$] ㏈ i [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

2. Final PPSD (㏈ m) = PPSD (㏈ m) + Duty Correction Correction Factor (㏈)

3. E.I.R.P. PPSD (㏈ m) = Final PPSD (㏈ m) + Antenna Gain (㏈ i)

Test mode: 11ac_VHT40

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0 Measured PPSD (㏈ m)	Core 1 Measured PPSD (㏈ m)	Core 0+Core 1 PPSD (㏈ m)
U-NII 1	5 190	38	MCS3	-14.58	-14.48	-11.52
	5 230	46		-14.23	-15.11	-11.64
U-NII 2A	5 270	54		-14.92	-14.68	-11.79
	5 310	62		-14.81	-14.02	-11.39
U-NII 2C	5 510	102		-14.51	-14.83	-11.66
	5 550	110		-14.29	-15.12	-11.67
	5 670	134		-13.37	-13.78	-10.56
U-NII 3	5 755	151		-16.25	-17.12	-13.65
	5 795	159		-16.03	-17.18	-13.56

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (㏈ m)	Duty Cycle Correction Factor (㏈)	Core 0+Core 1 Final PPSD (㏈ m)	Limit (㏈ m/1 ㎒)
U-NII 1	5 190	38	MCS3	-11.52	2.57	-8.95	11
	5 230	46		-11.64		-9.07	
U-NII 2A	5 270	54		-11.79		-9.22	
	5 310	62		-11.39		-8.82	
U-NII 2C	5 510	102		-11.66		-9.09	
	5 550	110		-11.67		-9.10	
	5 670	134		-10.56		-7.99	
Band	**Frequency (㎒)**	**Ch.**	**Data Rate (Mbps)**	**Core 0+Core 1 PPSD (㏈ m)**	**Duty Cycle Correction Factor (㏈)**	**Core 0+Core 1 Final PPSD (㏈ m)**	**Limit (㏈ m/1 ㎒)**
U-NII 3	5 755	151	MCS3	-13.65	2.57	-11.08	29.81
	5 795	159		-13.56		-10.99	

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0+Core 1 Final PPSD (㏈ m)	Antenna Gain (㏈ i)	Core 0+Core 1 E.I.R.P. PPSD (㏈ m)	IC Limit (㏈ m/1 ㎒)
U-NII 1	5 190	38	MCS3	-8.95	4.80	-4.15	10
	5 230	46		-9.07		-4.27	
U-NII 2A	5 270	54		-9.22	5.33	-3.89	N/A
	5 310	62		-8.82		-3.49	
U-NII 2C	5 510	102		-9.09	5.99	-3.10	
	5 550	110		-9.10		-3.11	
	5 670	134		-7.99		-2.00	
U-NII 3	5 755	151		-11.08	6.19	-4.89	
	5 795	159		-10.99		-4.80	

Remark;

1. According to KDB 662911, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.

   - PPSD: 10 log {10^(Core 0 PSD / 10)+10^(Core 1 PSD / 10)}
   - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N dBi
   (i) If transmit signals are correlated, then
   Directional gain = 10 log[$(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/N_{ANT}$] dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

2. Final PPSD (dBm) = PPSD (dBm) + Duty Correction Correction Factor (dB)

3. E.I.R.P. PPSD (dBm) = Final PPSD (dBm) + Antenna Gain (dBi)

Test mode: 11ac_VHT80

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0 Measured PPSD (㏈m)	Core 1 Measured PPSD (㏈m)	Core 0+Core 1 PPSD (㏈m)
U-NII 1	5 210	42	MCS6	-17.35	-18.94	-15.06
U-NII 2A	5 290	58		-17.23	-18.32	-14.73
U-NII 2C	5 530	106		-17.08	-18.64	-14.78
U-NII 3	5 775	155		-20.40	-21.18	-17.76

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (㏈m)	Duty Cycle Correction Factor (㏈)	Core 0+Core 1 Final PPSD (㏈m)	Limit (㏈m/1 ㎒)
U-NII 1	5 210	42	MCS6	-15.06	4.09	-10.97	11
U-NII 2A	5 290	58		-14.73		-10.64	
U-NII 2C	5 530	106		-14.78		-10.69	
Band	**Frequency (㎒)**	**Ch.**	**Data Rate (Mbps)**	**Core 0+Core 1 PPSD (㏈m)**	**Duty Cycle Correction Factor (㏈)**	**Core 0+Core 1 Final PPSD (㏈m)**	**Limit (㏈m/500 ㎑)**
U-NII 3	5 775	155	MCS6	-17.76	4.09	-13.67	29.81

Band	Frequency (㎒)	Ch.	Data Rate (Mbps)	Core 0+Core 1 Final PPSD (㏈m)	Antenna Gain (㏈i)	Core 0+Core 1 E.I.R.P. PPSD (㏈m)	IC Limit (㏈m/1 ㎒)
U-NII 1	5 210	42	MCS6	-10.97	4.80	-6.17	10
U-NII 2A	5 290	58		-10.64	5.33	-5.31	N/A
U-NII 2C	5 530	106		-10.69	5.99	-4.70	
U-NII 3	5 775	155		-13.67	6.19	-7.48	

Remark;

1. According to KDB 662911, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.

   - PPSD: 10 log {10^(Core 0 PSD / 10)+10^(Core 1 PSD / 10)}
   - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N ㏈i
   (i) If transmit signals are correlated, then
   Directional gain = 10 log[$(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/N_{ANT}$] ㏈i [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

2. Final PPSD (㏈m) = PPSD (㏈m) + Duty Correction Correction Factor (㏈)

3. E.I.R.P. PPSD (㏈m) = Final PPSD (㏈m) + Antenna Gain (㏈i)

Band-crossing channels

Mode	Band	Frequency (㎒)	Data Rate (Mbps)	Core 0 PPSD (㏈m)	Core 1 PPSD (㏈m)	Core 0+Core 1 PPSD (㏈m)
11n_HT20	U-NII 2C	5 720	MCS13	-10.28	-10.83	-7.54
	U-NII 3			-12.82	-13.51	-10.14
11ac_VHT40	U-NII 2C	5 710	MCS3	-13.06	-13.95	-10.47
	U-NII 3			-16.68	-16.40	-13.53
11ac_VHT80	U-NII 2C	5 690	MCS6	-17.63	-18.01	-14.81
	U-NII 3			-18.68	-19.78	-16.18

Mode	Band	Frequency (㎒)	Data Rate (Mbps)	Core 0+Core 1 PPSD (㏈m)	Duty Cycle Correction Factor (㏈)	Core 0+Core 1 Final PPSD (㏈m)	Limit (㏈m/1 ㎒ or ㏈m/500 ㎑)
11n_HT20	U-NII 2C	5 720	MCS13	-7.54	2.61	-4.93	11
	U-NII 3			-10.14	2.61	-7.53	29.81
11ac_VHT40	U-NII 2C	5 710	MCS3	-10.47	2.57	-7.90	11
	U-NII 3			-13.53	2.57	-10.96	29.81
11ac_VHT80	U-NII 2C	5 690	MCS6	-14.81	4.09	-10.72	11
	U-NII 3			-16.18	4.09	-12.09	29.81

Remark;

1. According to KDB 662911, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.

   - PPSD: 10 log {10^(Core 0 PSD / 10)+10^(Core 1 PSD / 10)}
   - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, …, G_N ㏈i
   (i) If transmit signals are correlated, then
   Directional gain = 10 log[$(10^{G_1/20} + 10^{G_2/20} + \ldots + 10^{G_N/20})^2/N_{ANT}$] ㏈i [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

2. PPSD: 10 log {10^(Core 0 PSD / 10)+10^(Core 1 PSD / 10)}

3. Final PPSD (㏈m) = PPSD (㏈m) + Duty Correction Correction Factor (㏈)

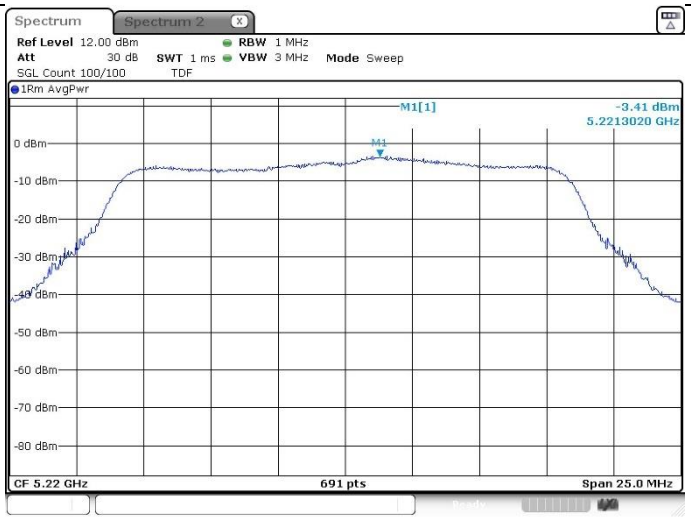
- Test plots

- SISO_Core 0

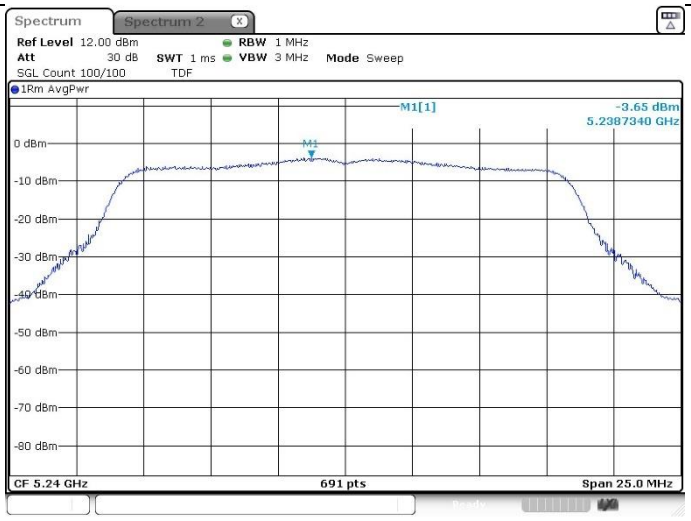
802.11a (Band 1)

Low Channel
(5 180 ㎒)

Middle Channel
(5 220 ㎒)

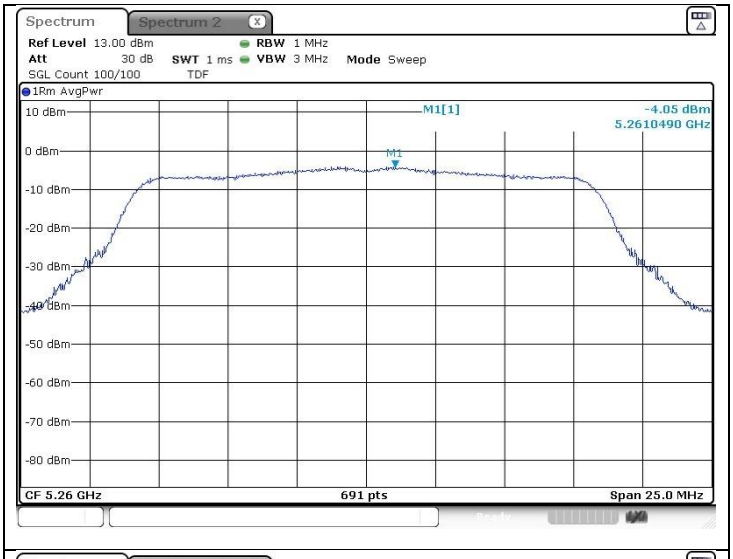


High Channel
(5 240 ㎒)



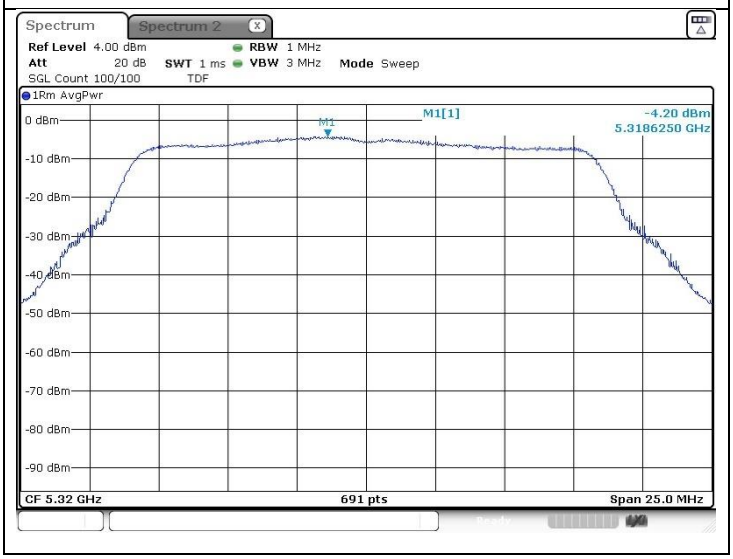
802.11a (Band 2A)

Low Channel
(5 260 ㎒)



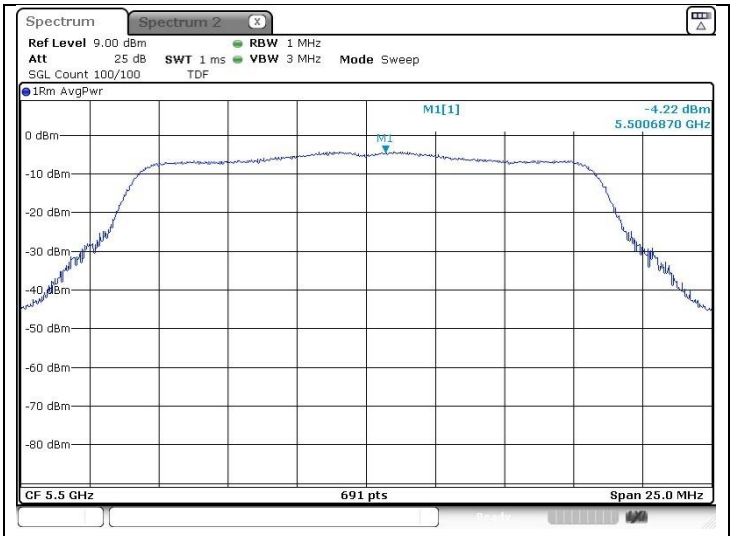
Middle Channel
(5 300 ㎒)

High Channel
(5 320 ㎒)

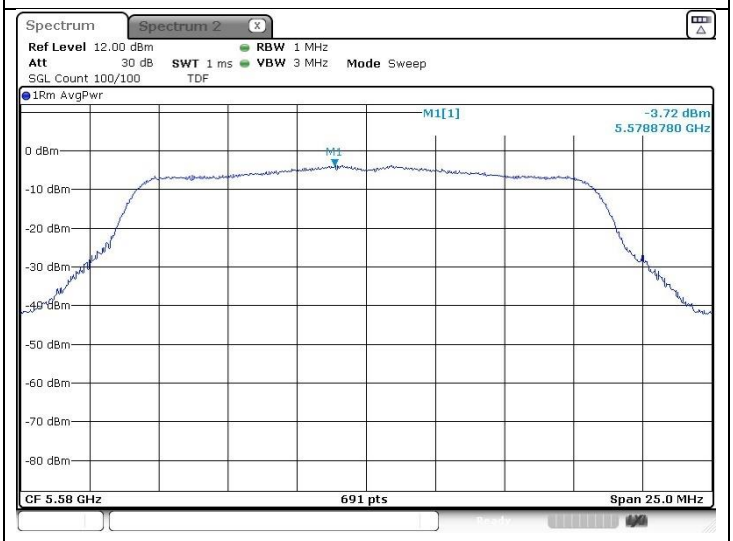


802.11a (Band 2C)

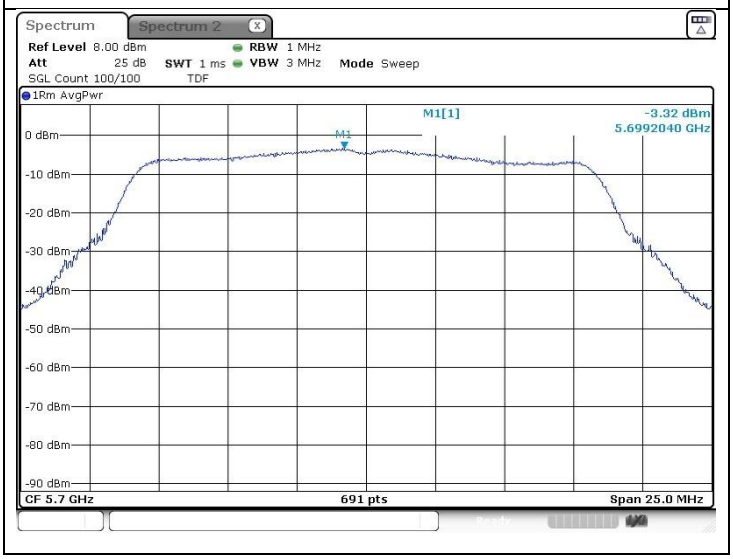
Low Channel
(5 500 ㎒)



Middle Channel
(5 580 ㎒)

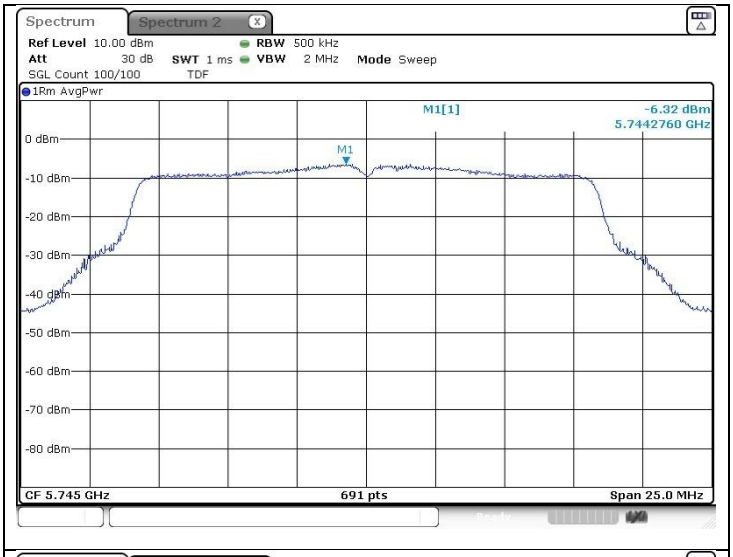


High Channel
(5 700 ㎒)

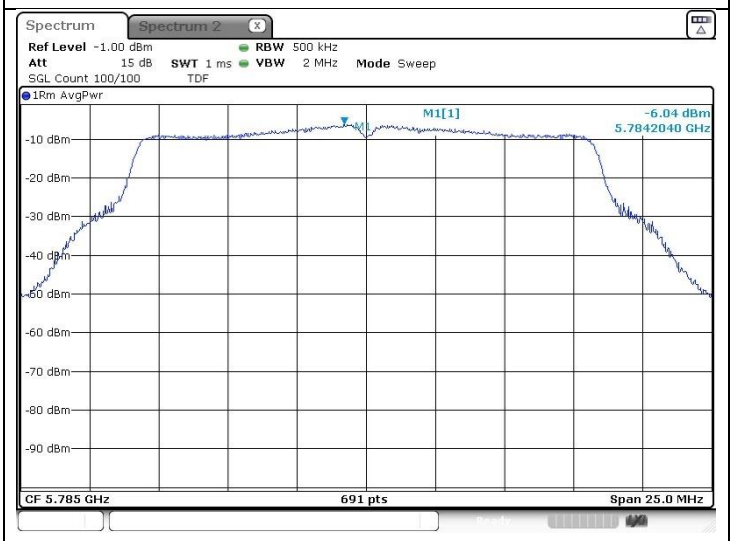


802.11a (Band 3)

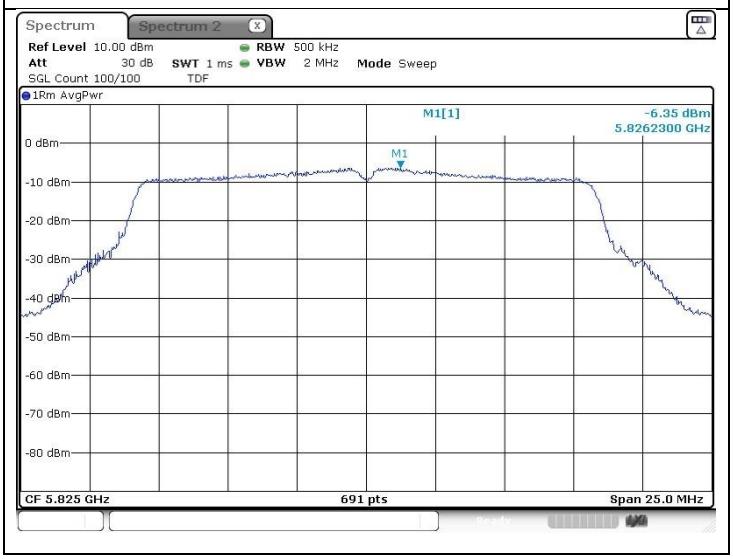
Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)

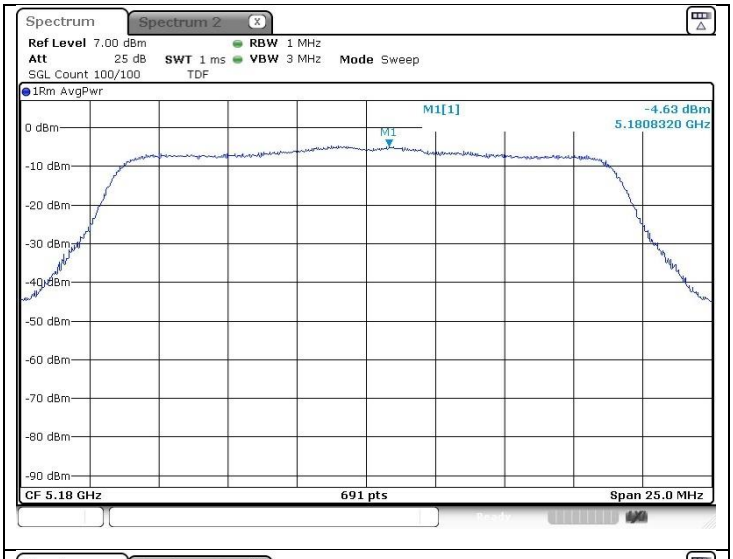


High Channel
(5 825 ㎒)

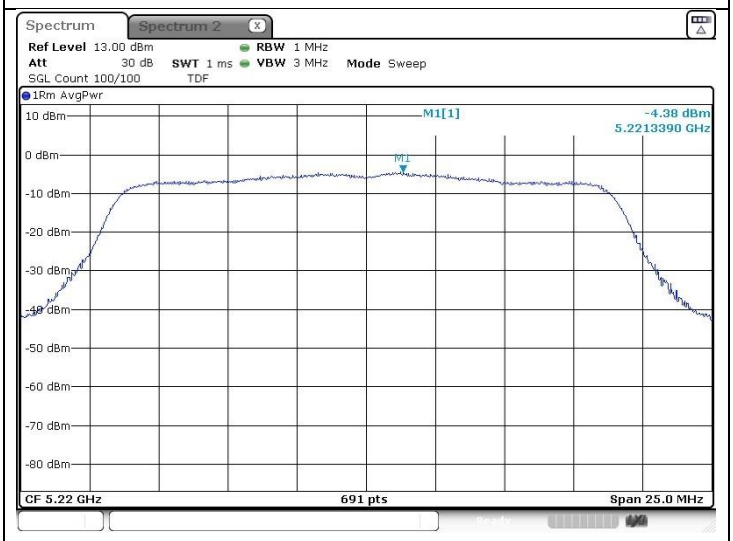


802.11n_HT20 (Band 1)

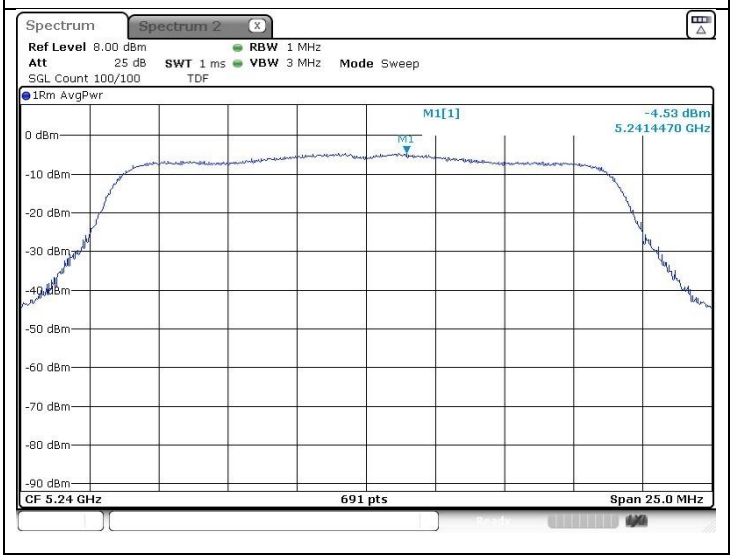
Low Channel
(5 180 ㎒)



Middle Channel
(5 220 ㎒)

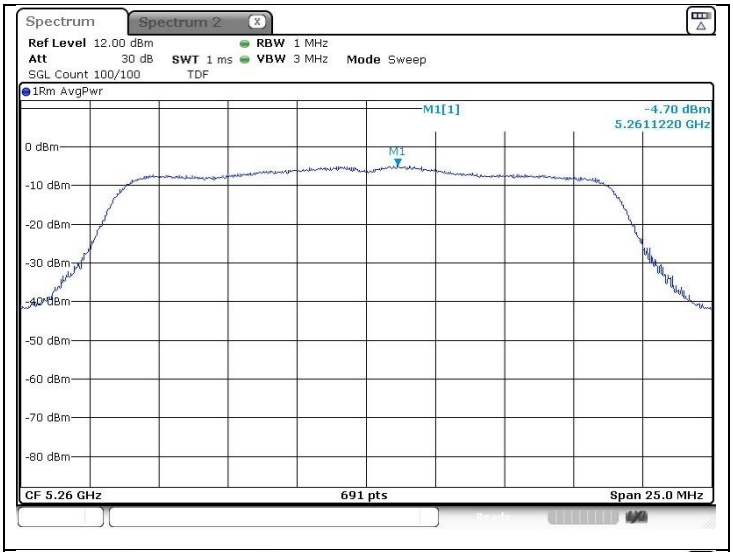


High Channel
(5 240 ㎒)

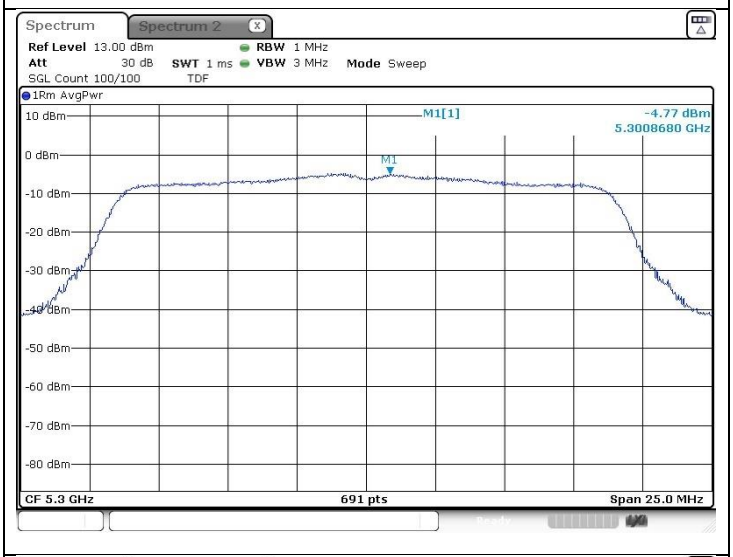


802.11n_HT20 (Band 2A)

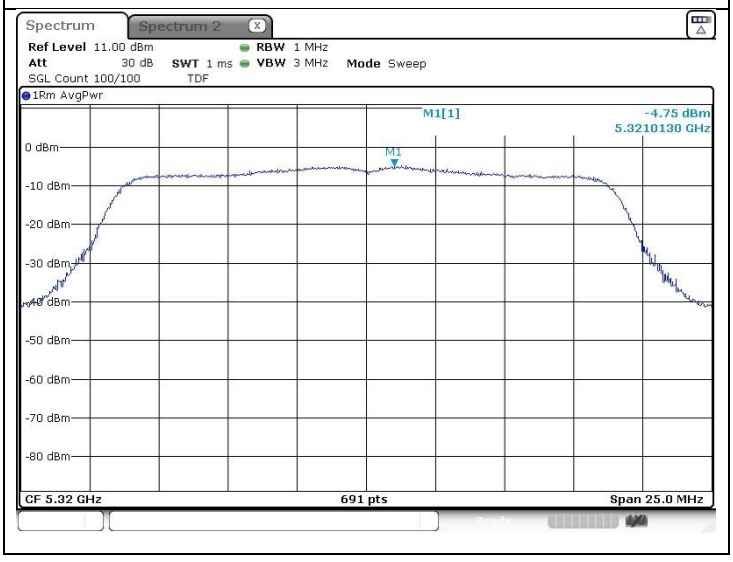
Low Channel
(5 260 ㎒)



Middle Channel
(5 300 ㎒)

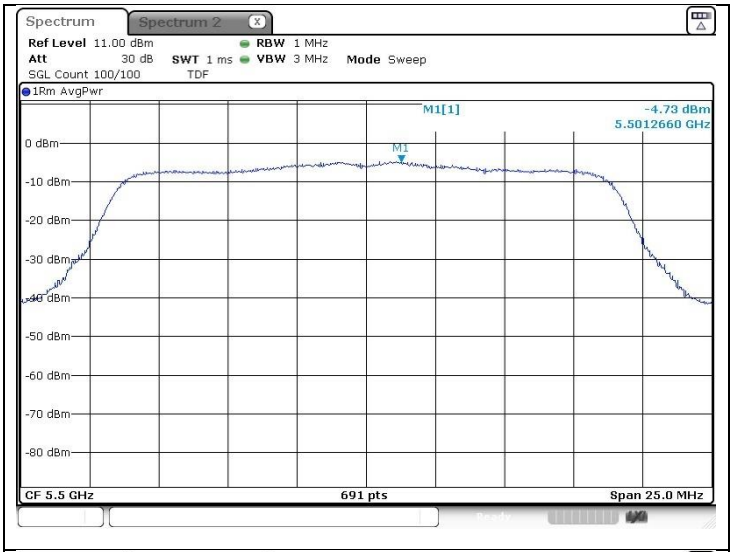


High Channel
(5 320 ㎒)

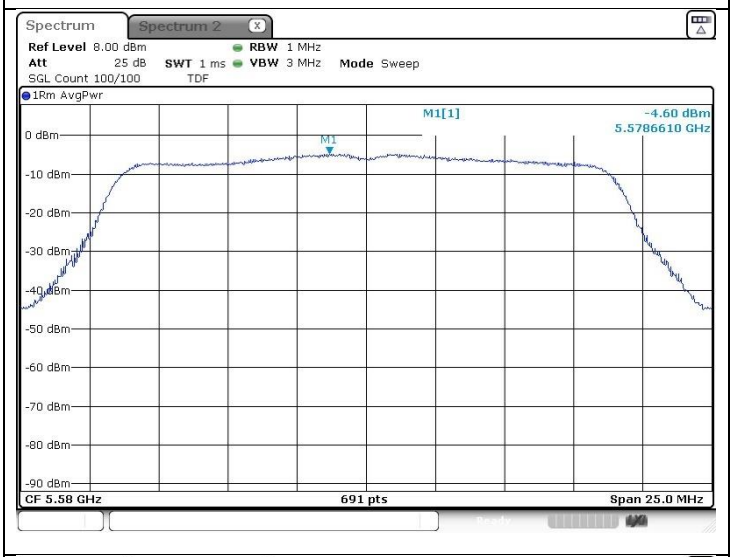


802.11n_HT20 (Band 2C)

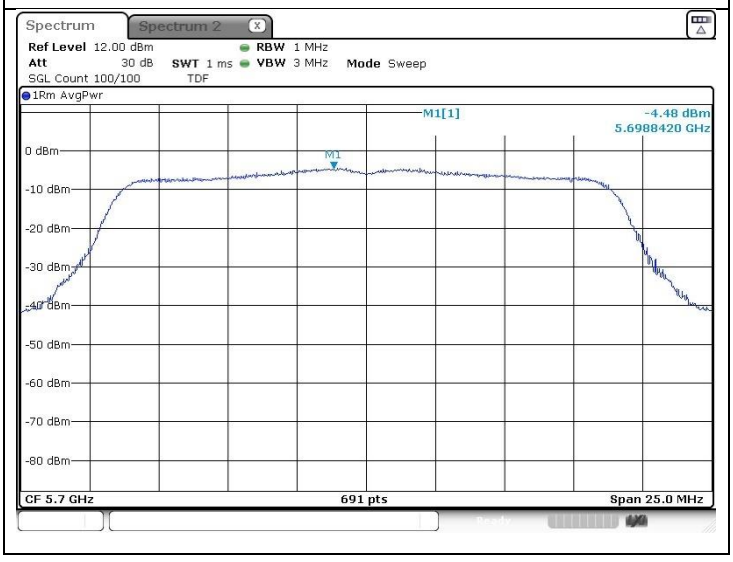
Low Channel
(5 500 ㎒)



Middle Channel
(5 580 ㎒)

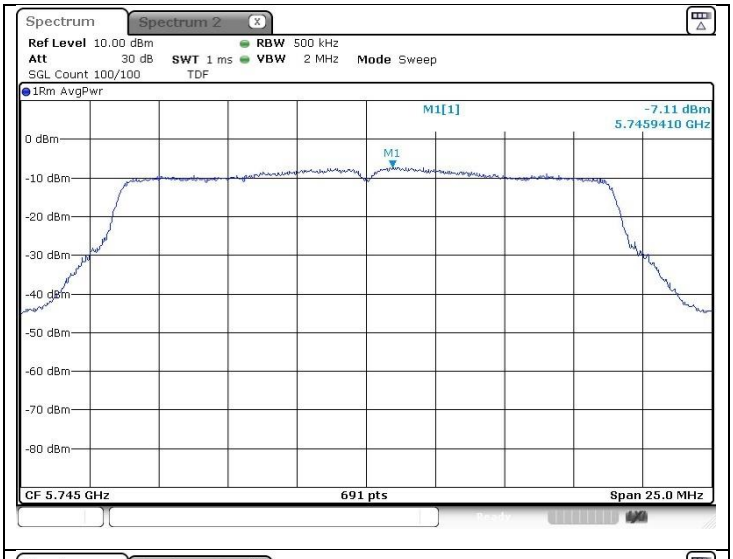


High Channel
(5 700 ㎒)

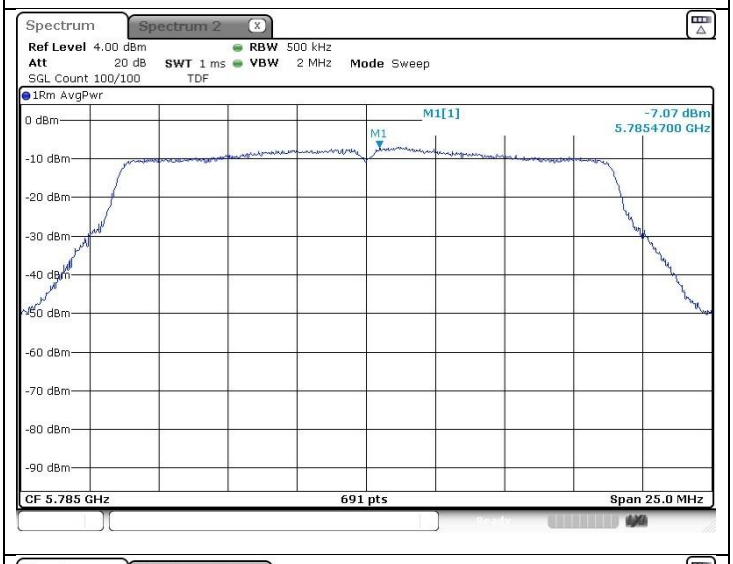


802.11n_HT20 (Band 3)

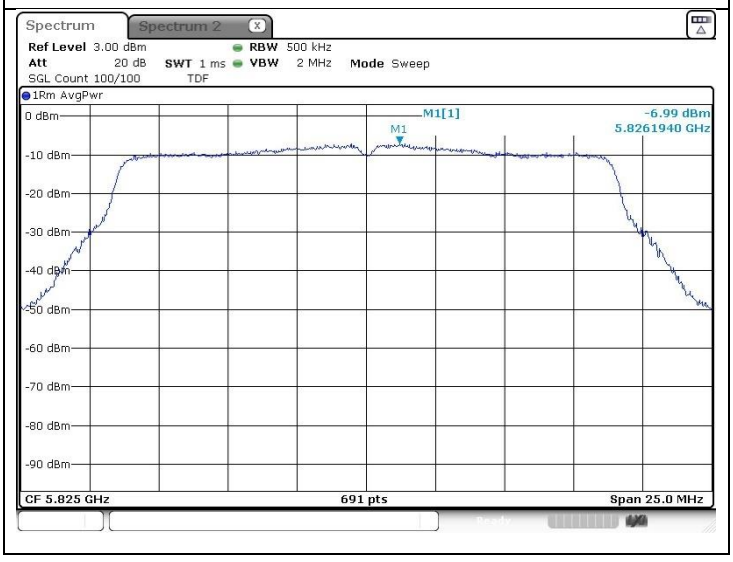
Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)

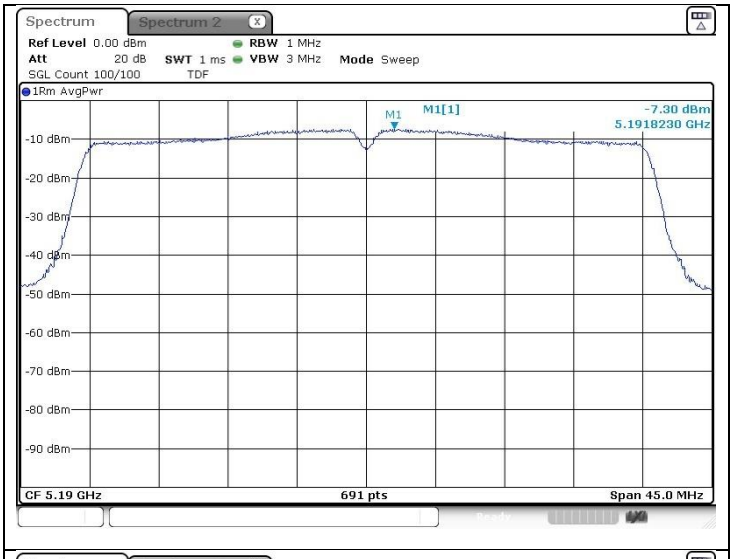


High Channel
(5 825 ㎒)

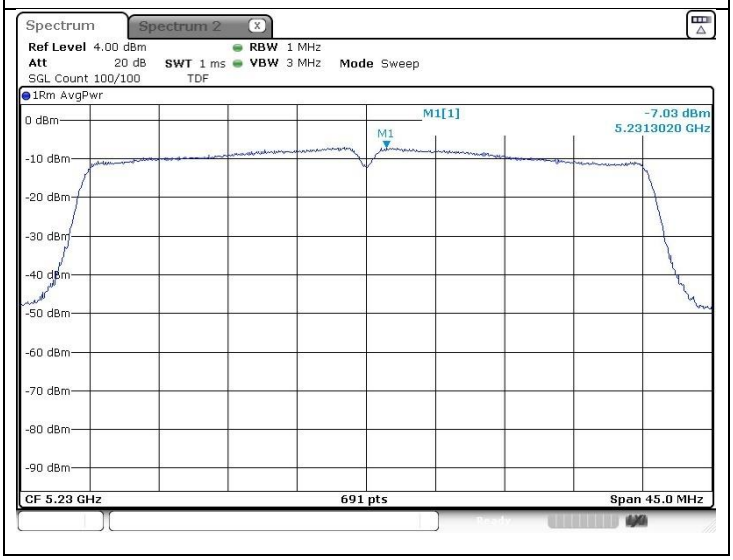


802.11n_HT40 (Band 1)

Low Channel
(5 190 ㎒)

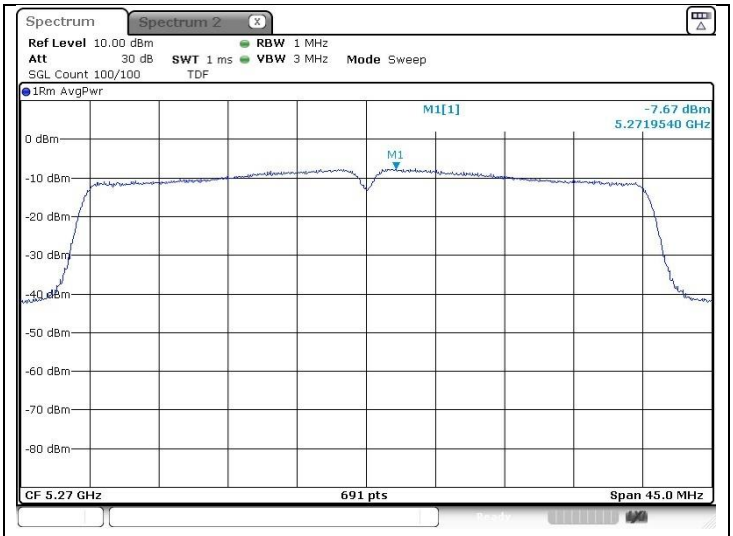


High Channel
(5 230 ㎒)

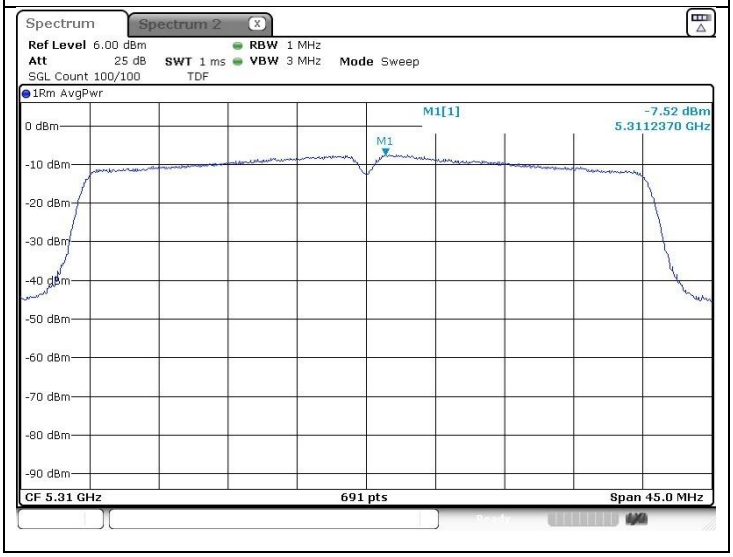


802.11n_HT40 (Band 2A)

Low Channel
(5 270 ㎒)

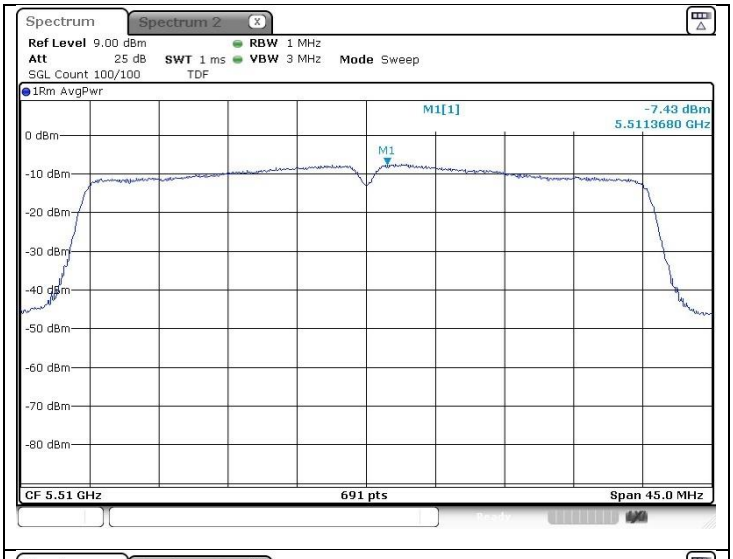


High Channel
(5 310 ㎒)

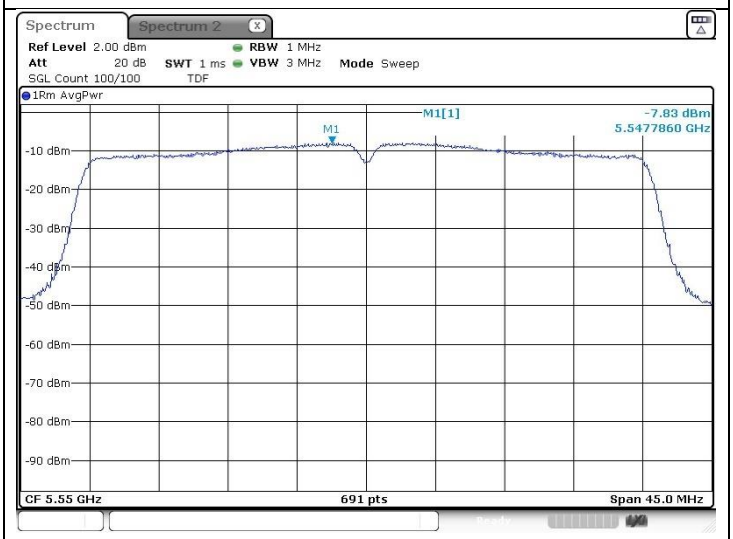


802.11n_HT40 (Band 2C)

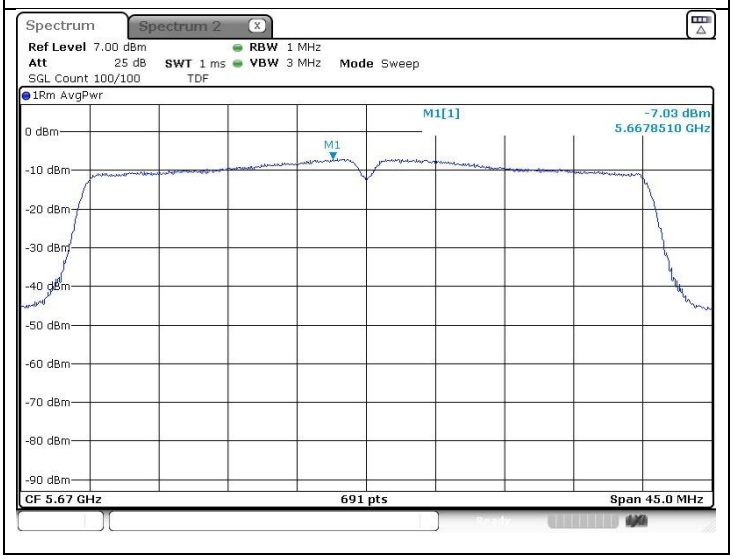
Low Channel
(5 510 ㎒)



Middle Channel
(5 550 ㎒)

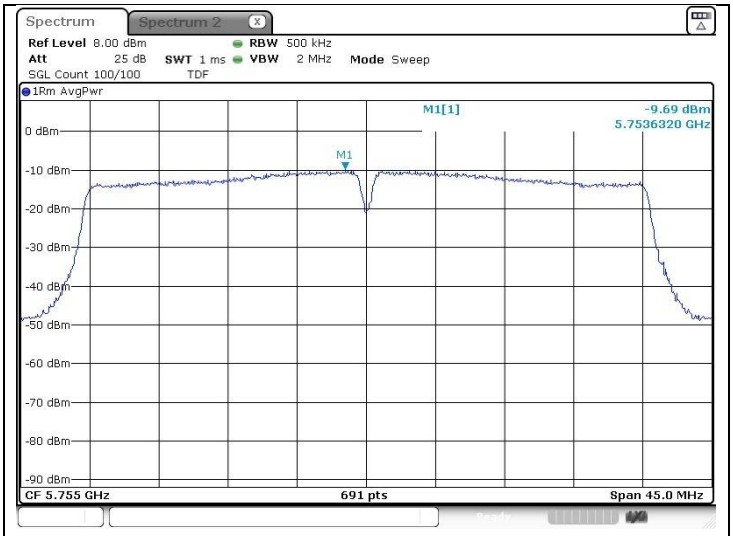


High Channel
(5 670 ㎒)

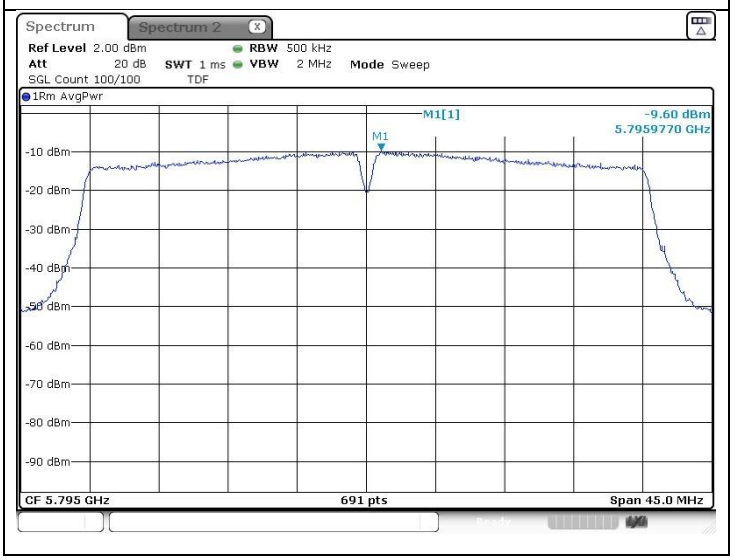


802.11n_HT40 (Band 3)

Low Channel
(5 755 ㎒)

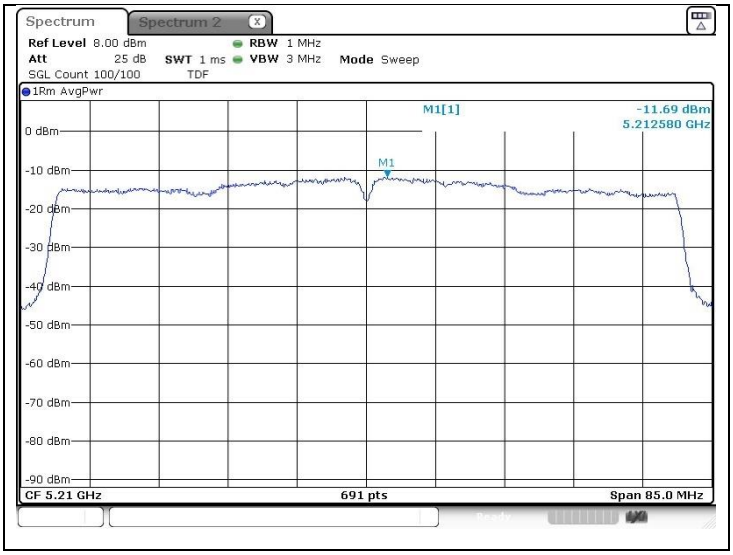


High Channel
(5 795 ㎒)



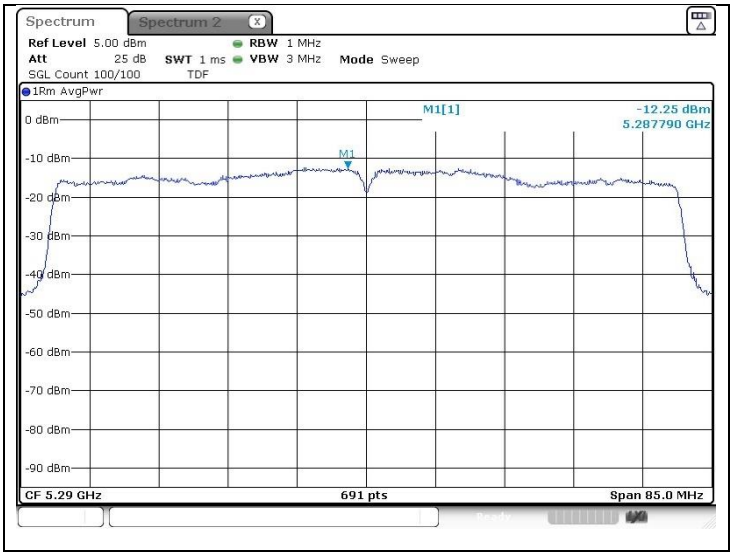
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 ㎒)



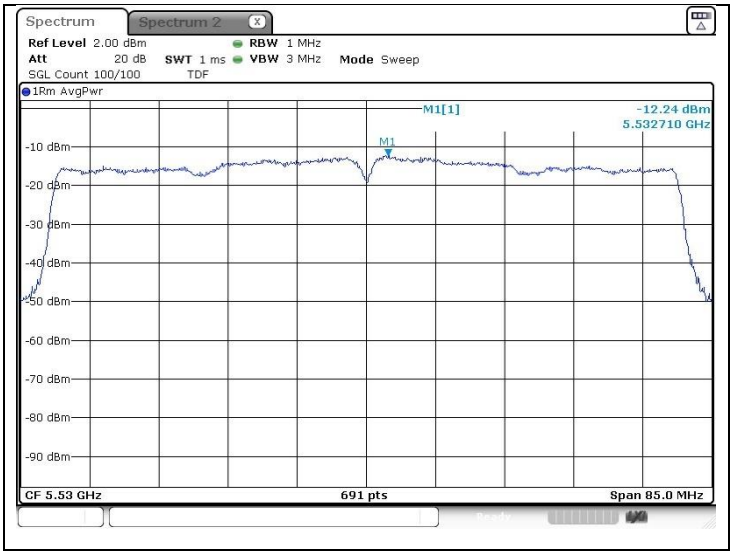
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 ㎒)



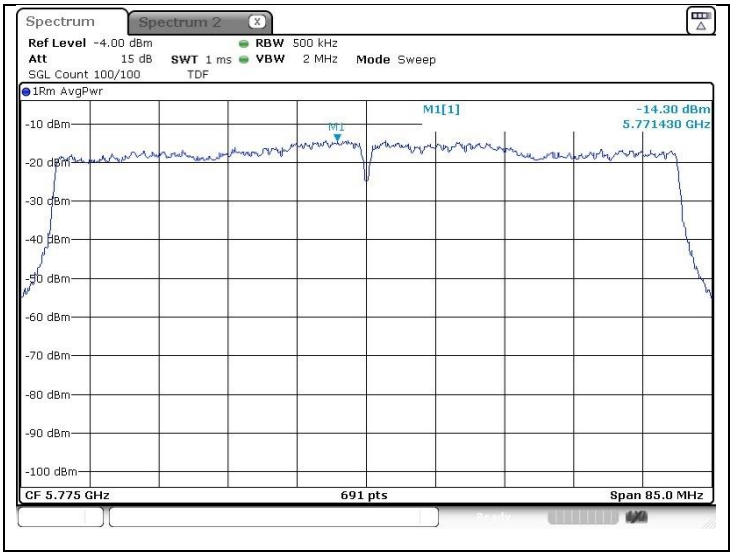
802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 ㎒)



802.11ac_VHT80 (Band 3)

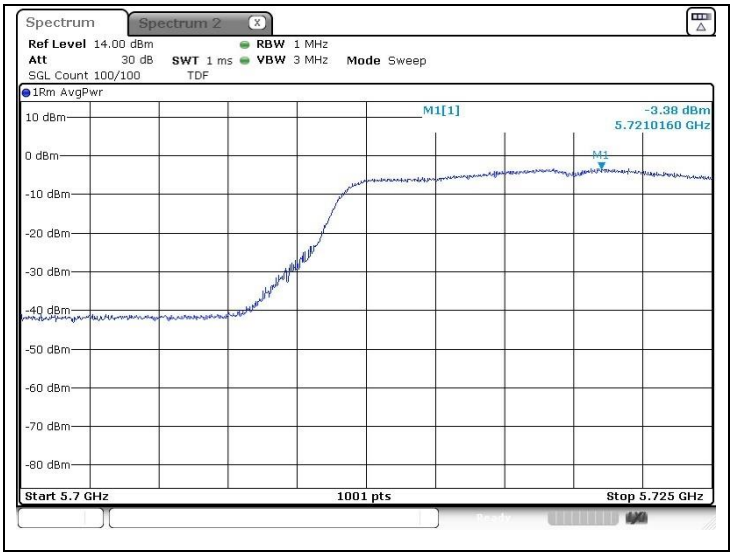
Middle Channel
(5 775 ㎒)



Band-crossing channels

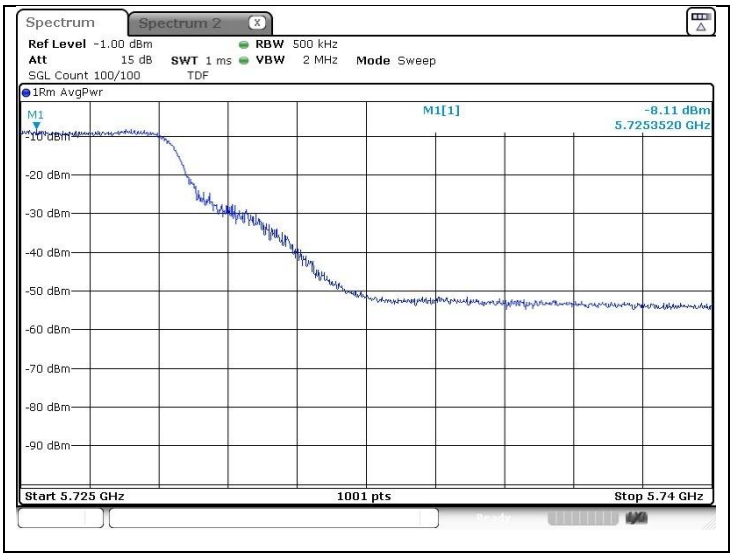
802.11a (Band 2C)

High Channel
(5 720 ㎒)



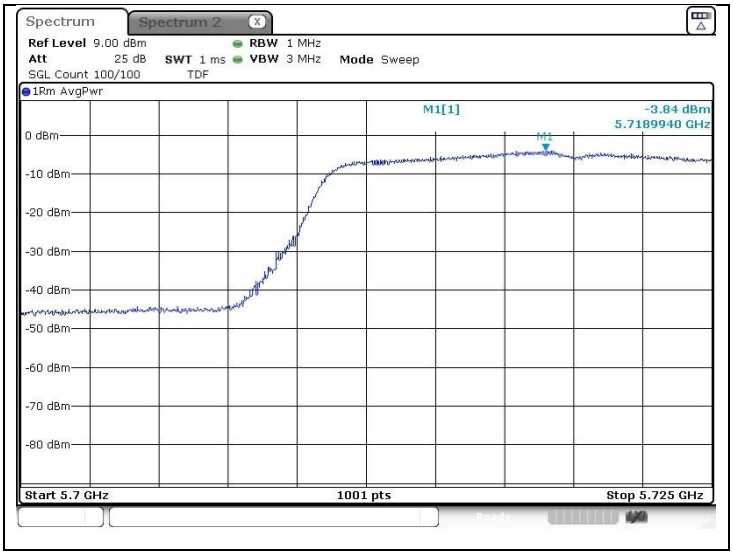
802.11a (Band 3)

High Channel
(5 720 ㎒)



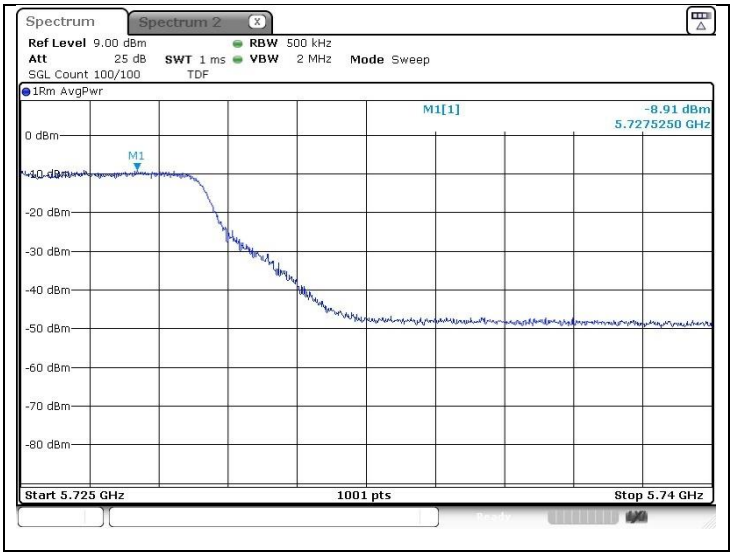
802.11n_HT20 (Band 2C)

High Channel
(5 720 ㎒)



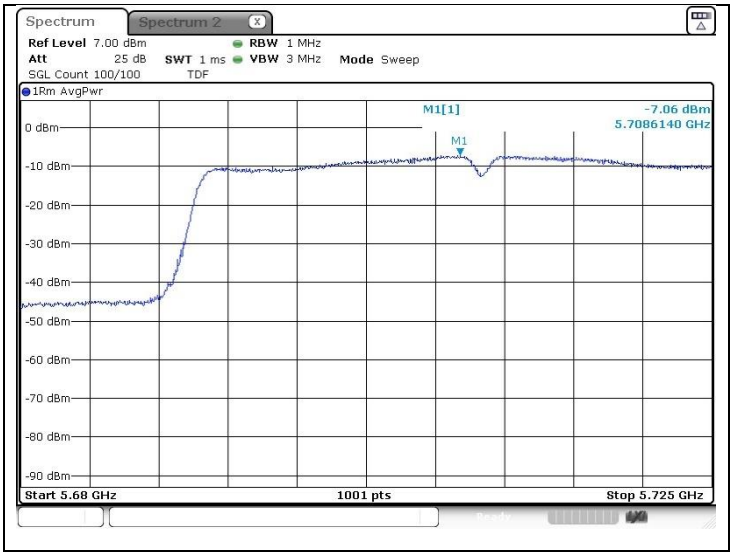
802.11n_HT20 (Band 3)

High Channel
(5 720 ㎒)



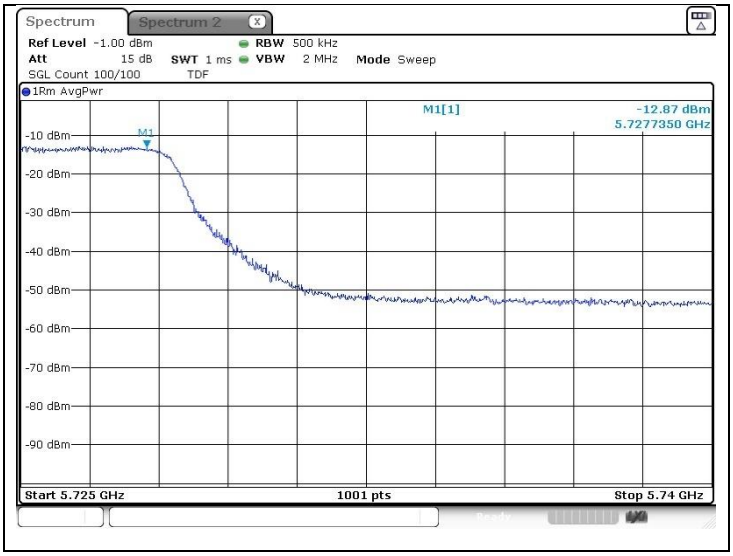
802.11n_HT40 (Band 2C)

High Channel
(5 710 ㎒)



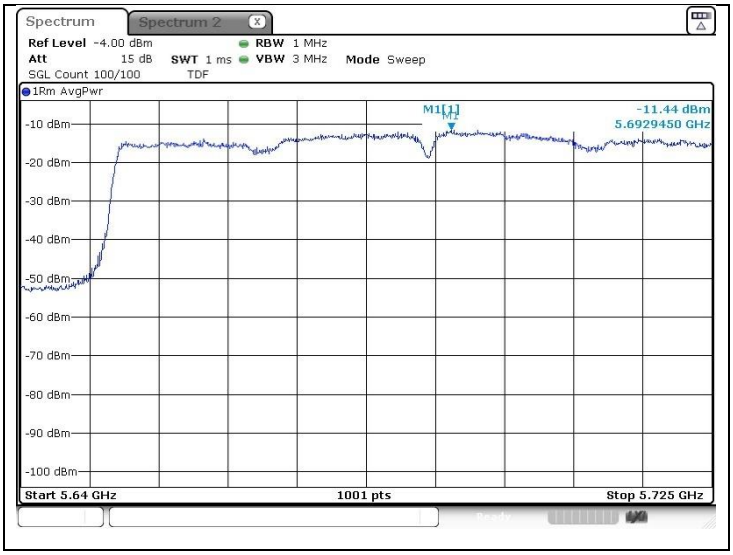
802.11n_HT40 (Band 3)

High Channel
(5 710 ㎒)



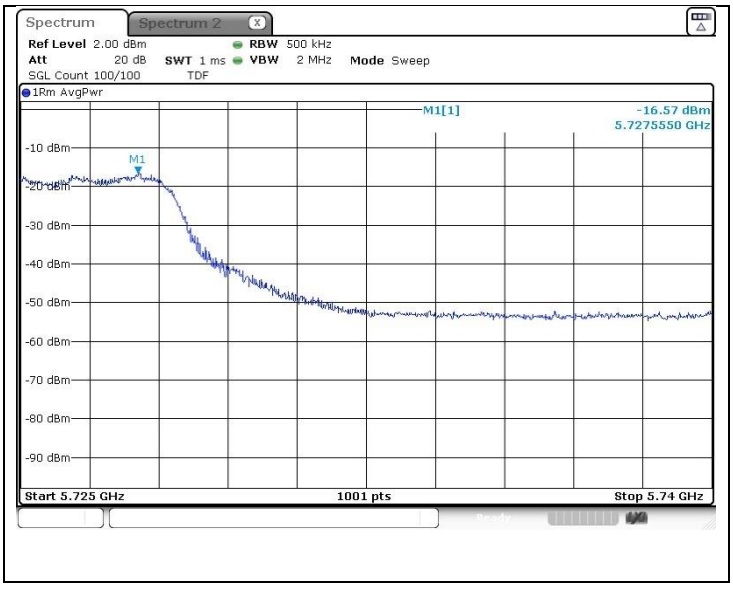
802.11ac_VHT80 (Band 2C)

Middle Channel
(5 690 ㎒)



802.11ac_VHT80 (Band 3)

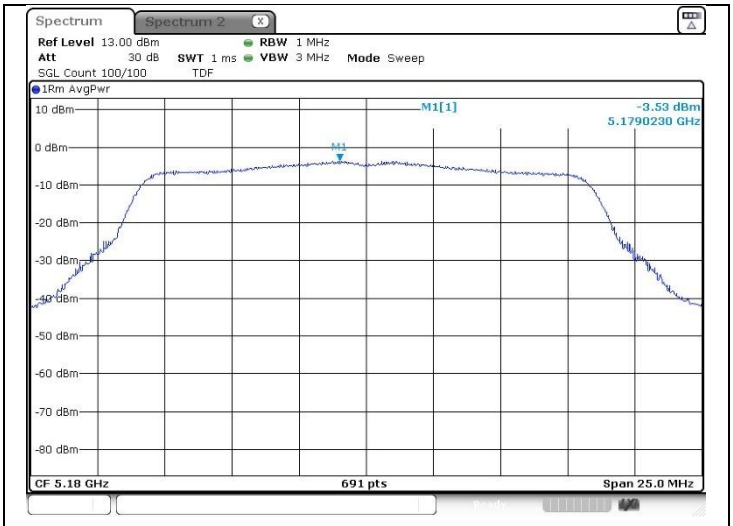
Middle Channel
(5 690 ㎒)



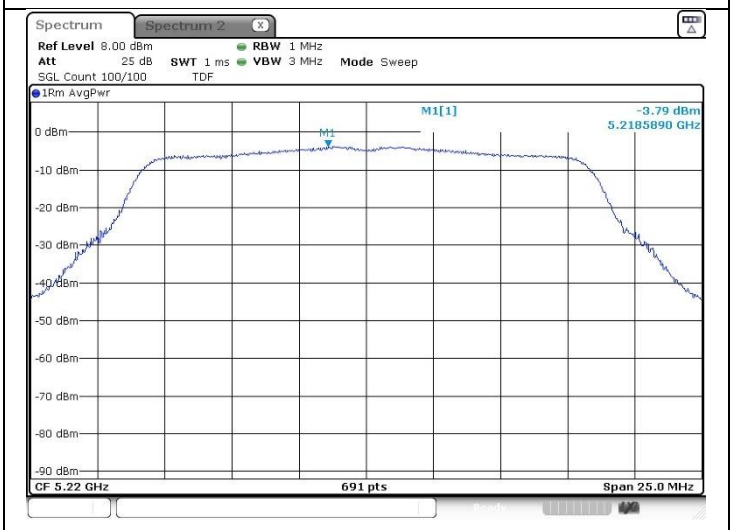
- SISO_Core 1

802.11a (Band 1)

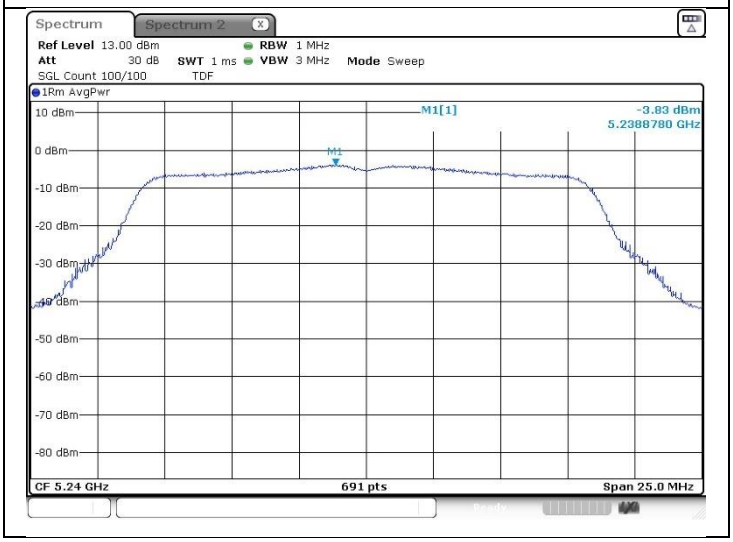
Low Channel
(5 180 ㎒)



Middle Channel
(5 220 ㎒)



High Channel
(5 240 ㎒)

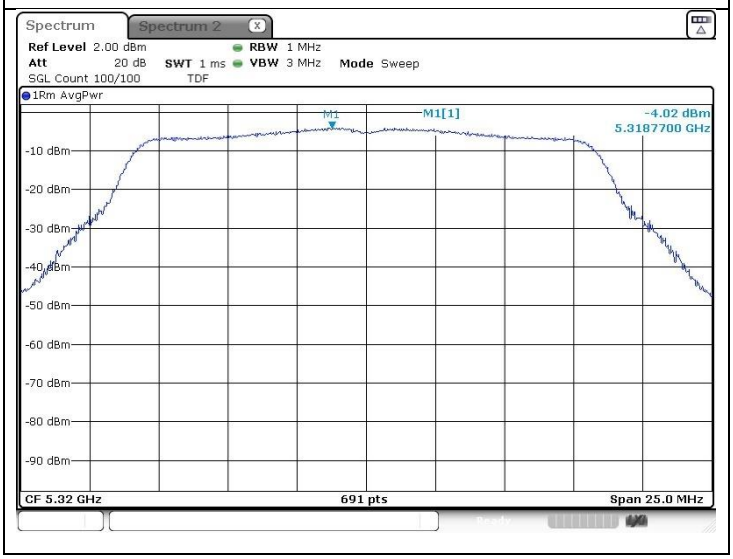


802.11a (Band 2A)

Low Channel
(5 260 ㎒)

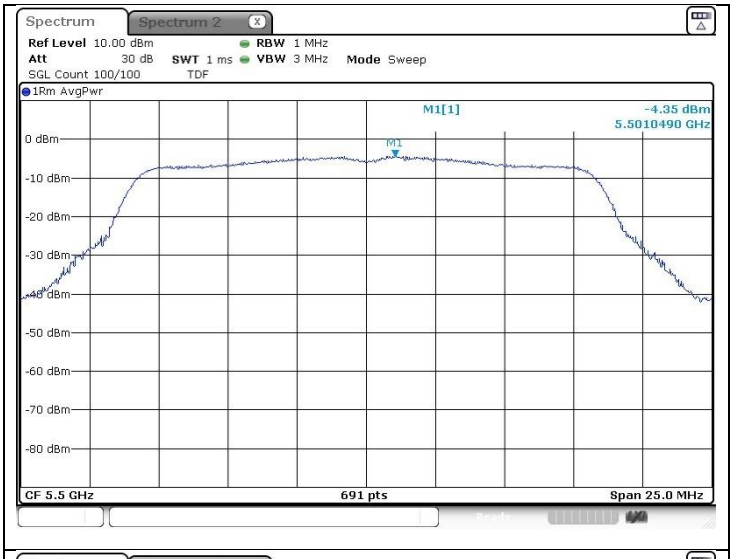
Middle Channel
(5 300 ㎒)

High Channel
(5 320 ㎒)

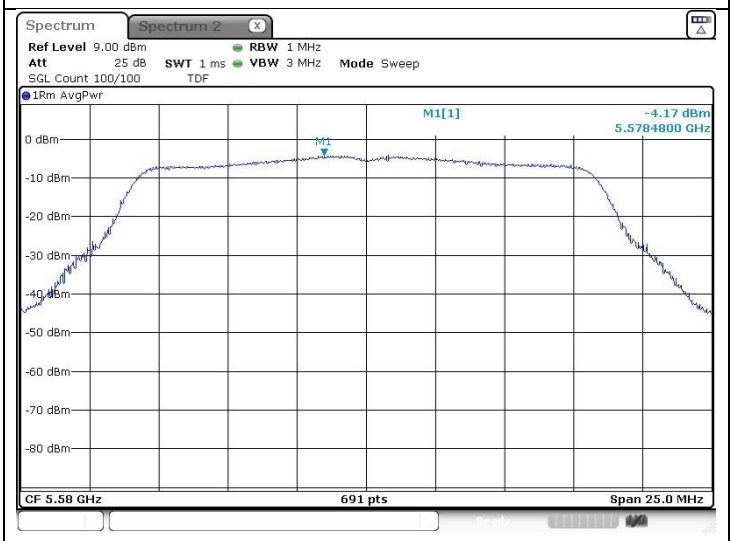


802.11a (Band 2C)

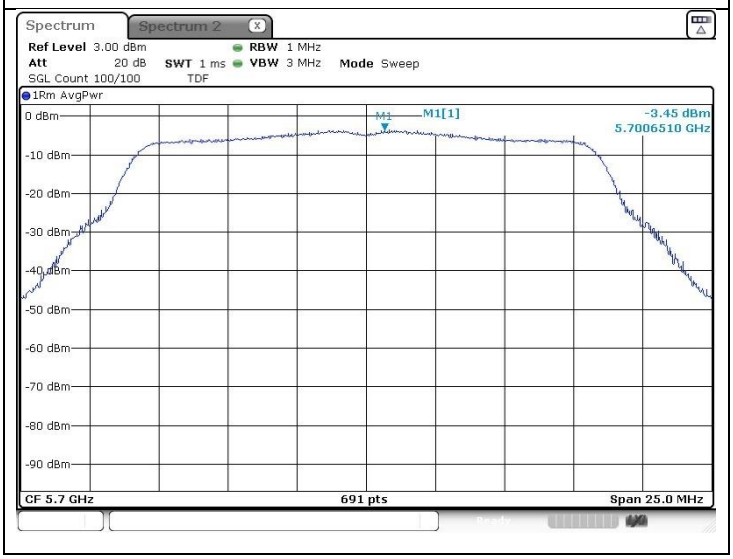
Low Channel
(5 500 ㎒)



Middle Channel
(5 580 ㎒)

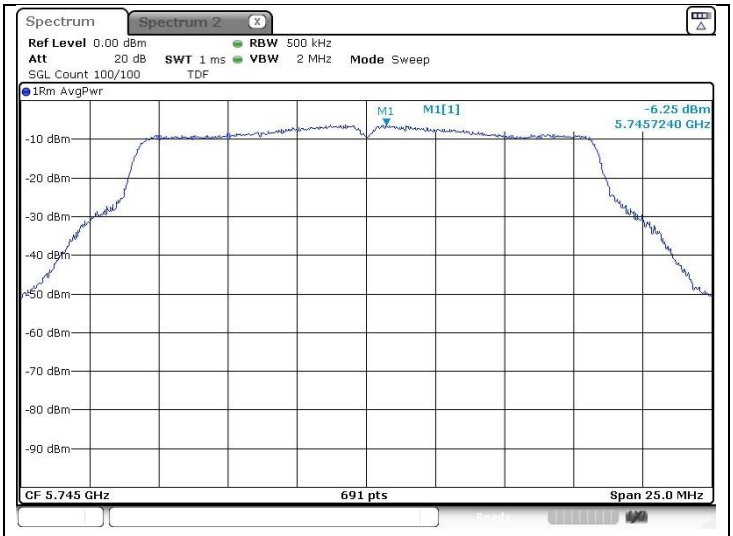


High Channel
(5 700 ㎒)

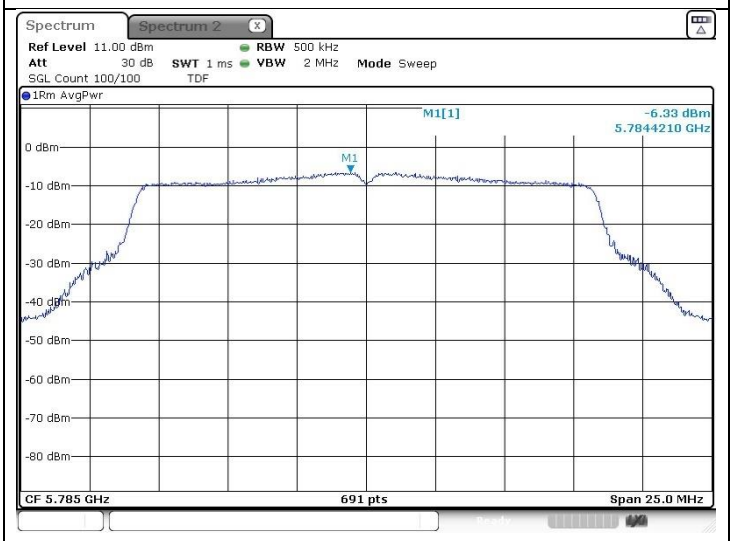


802.11a (Band 3)

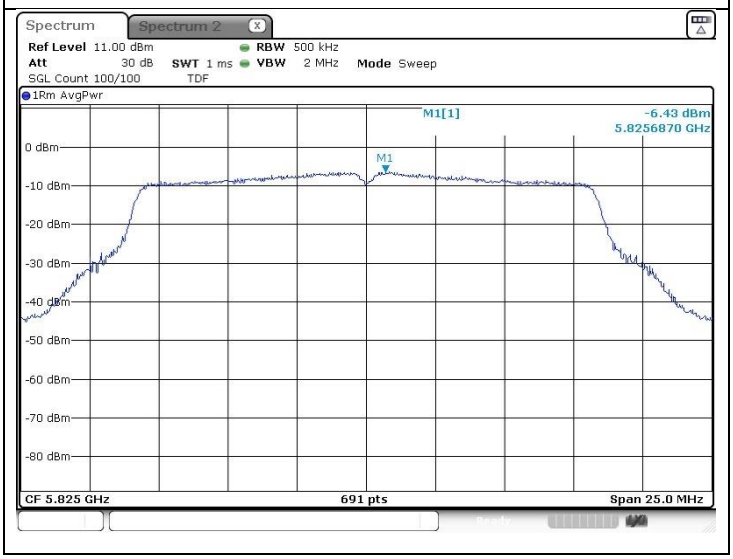
Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)

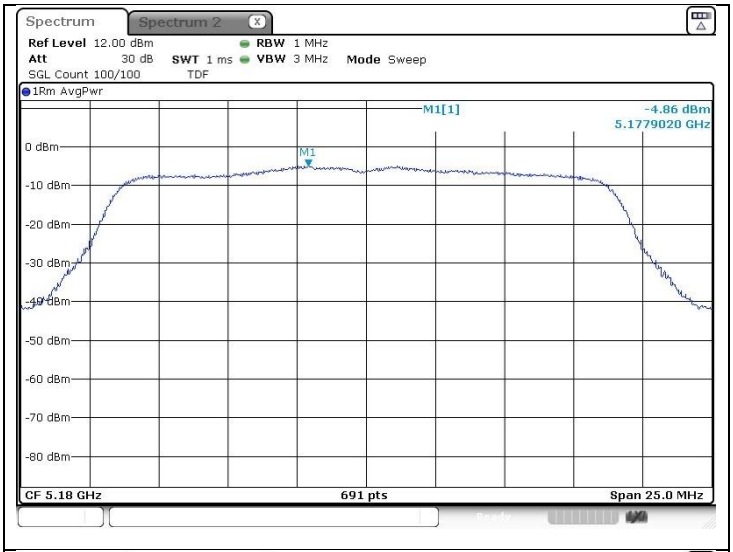


High Channel
(5 825 ㎒)

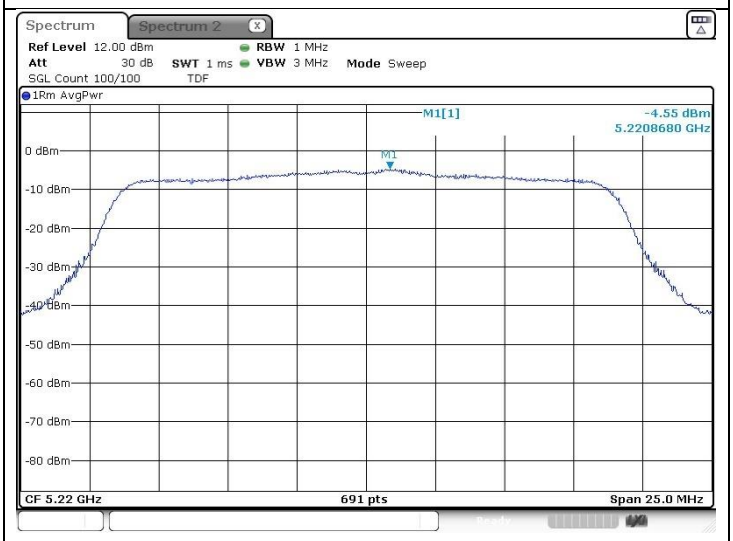


802.11ac_VHT20 (Band 1)

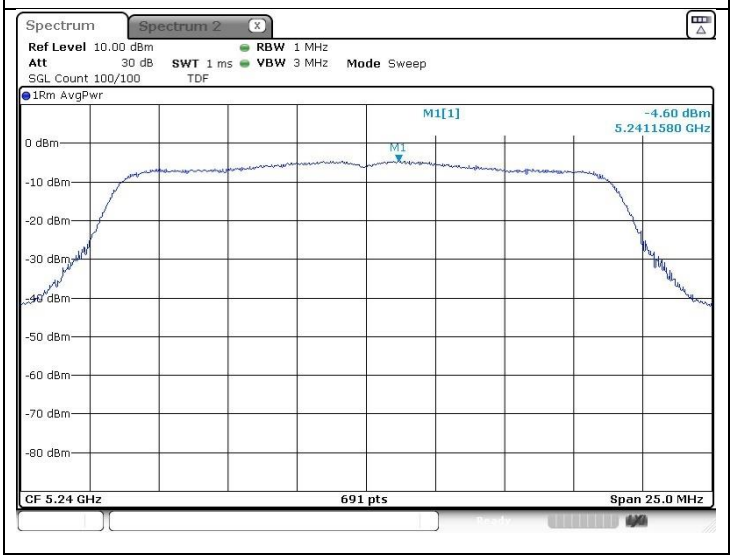
Low Channel
(5 180 ㎒)



Middle Channel
(5 220 ㎒)



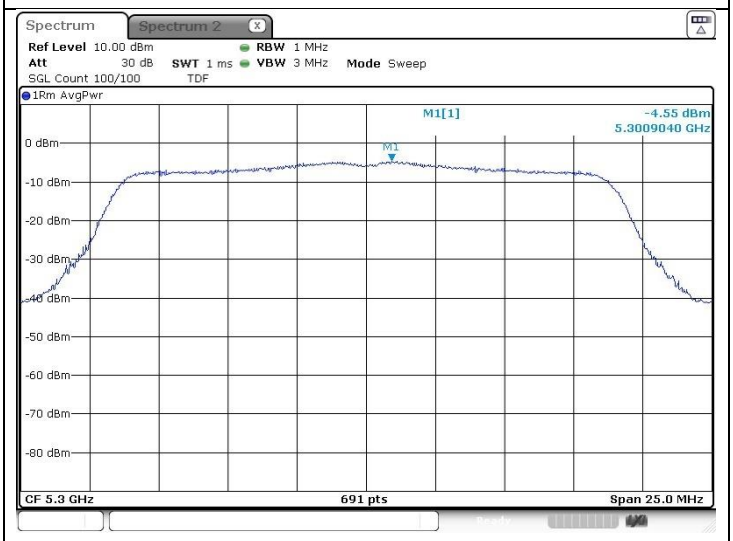
High Channel
(5 240 ㎒)



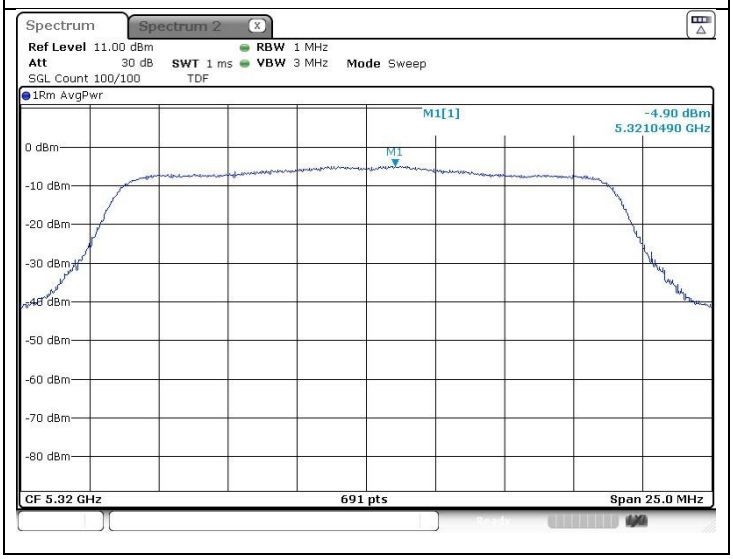
802.11ac_VHT20 (Band 2A)

Low Channel
(5 260 ㎒)

Middle Channel
(5 300 ㎒)

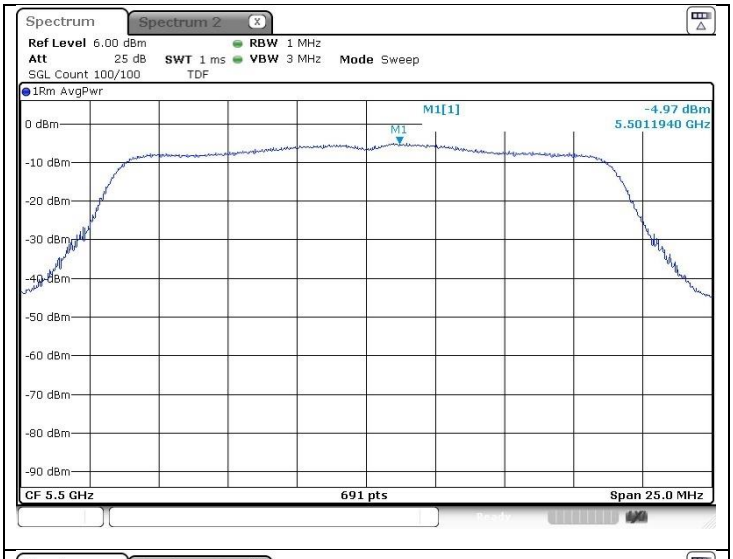


High Channel
(5 320 ㎒)

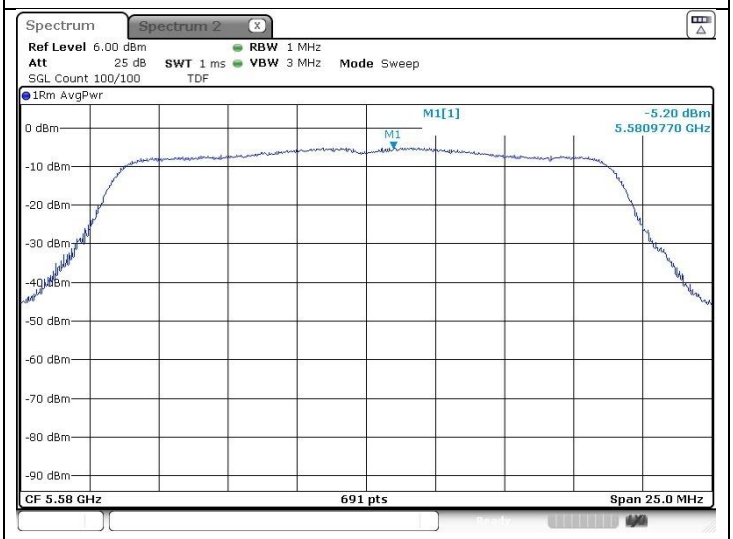


802.11ac_VHT20 (Band 2C)

Low Channel
(5 500 ㎒)



Middle Channel
(5 580 ㎒)



High Channel
(5 700 ㎒)