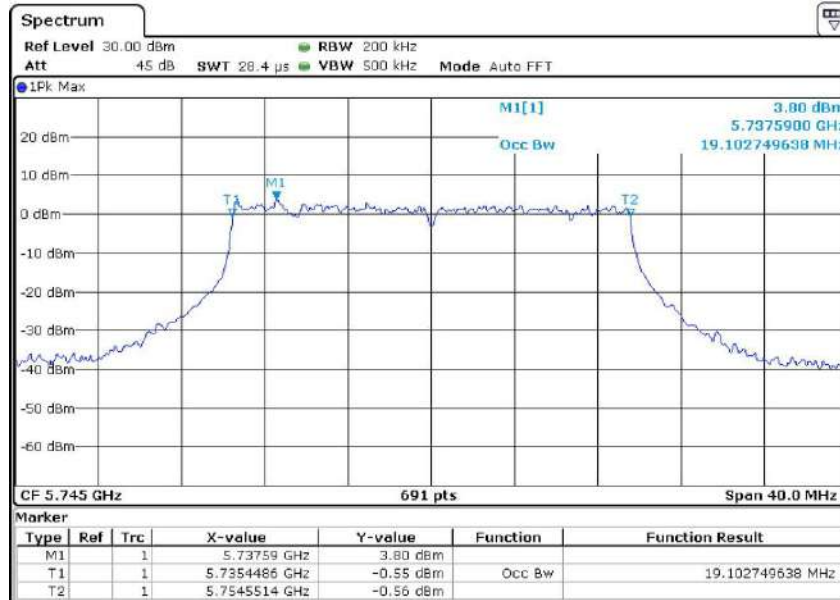


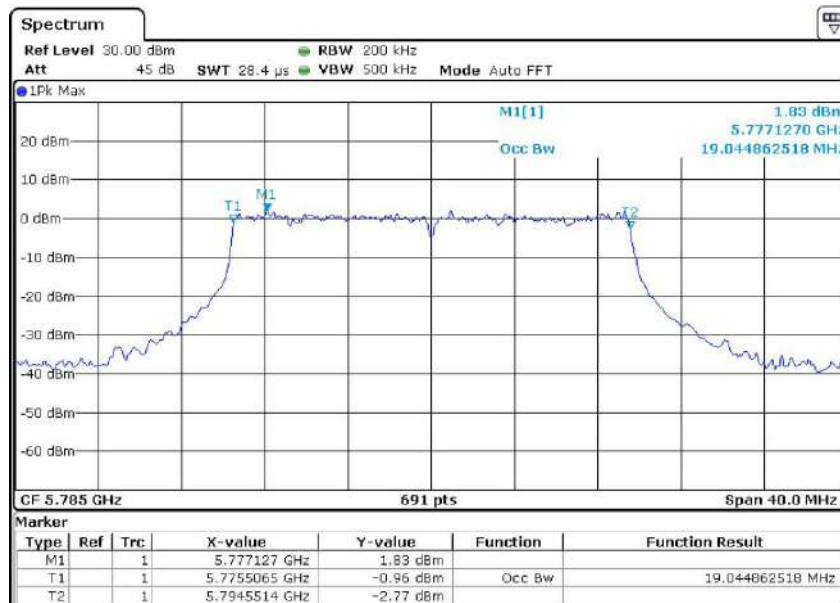
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax20

Channel:149

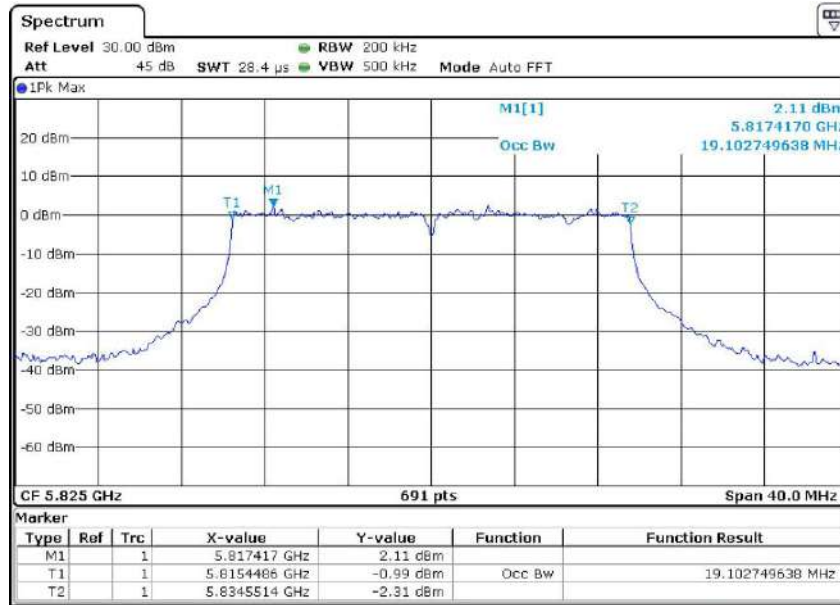


Channel: 157



Report No.: AAEMT/EMC/221128-04-08

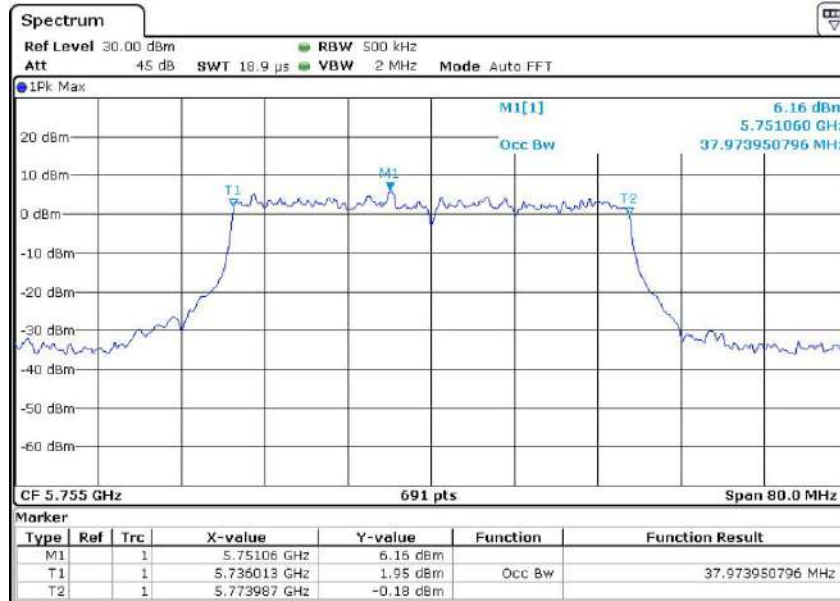
Channel: 165



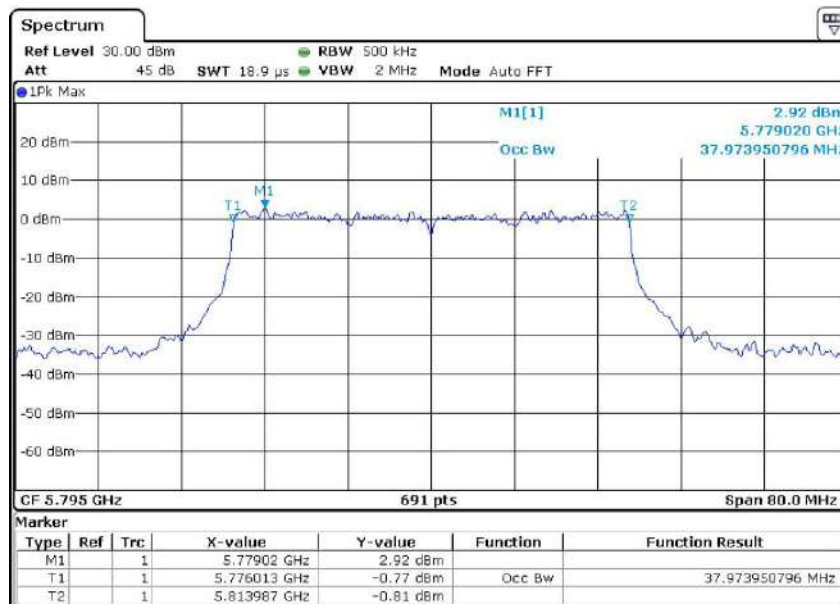
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax40

Channel: 151

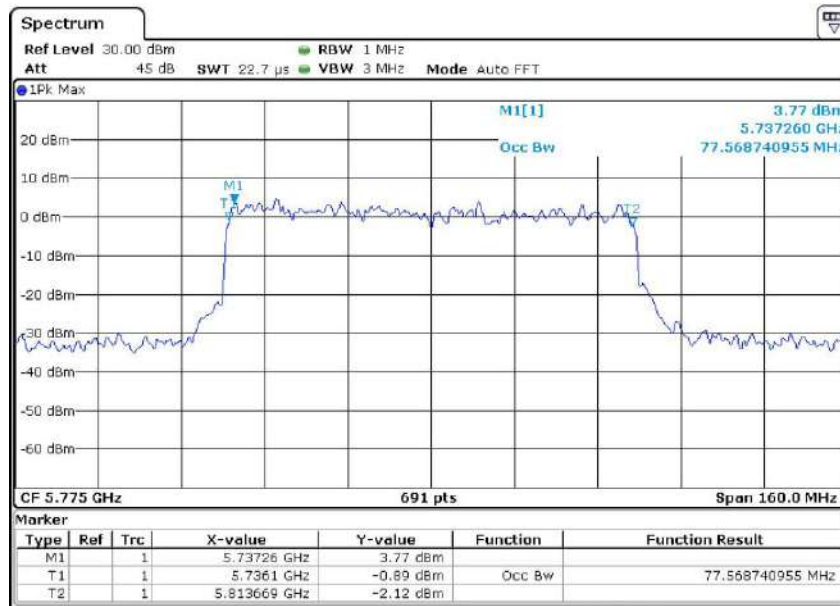


Channel: 159

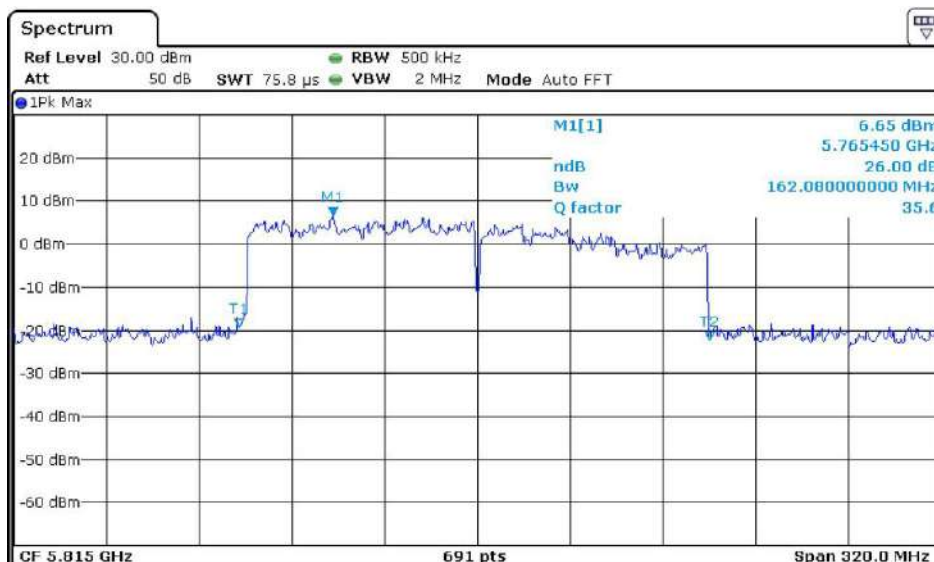


Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax80
Channel: 155



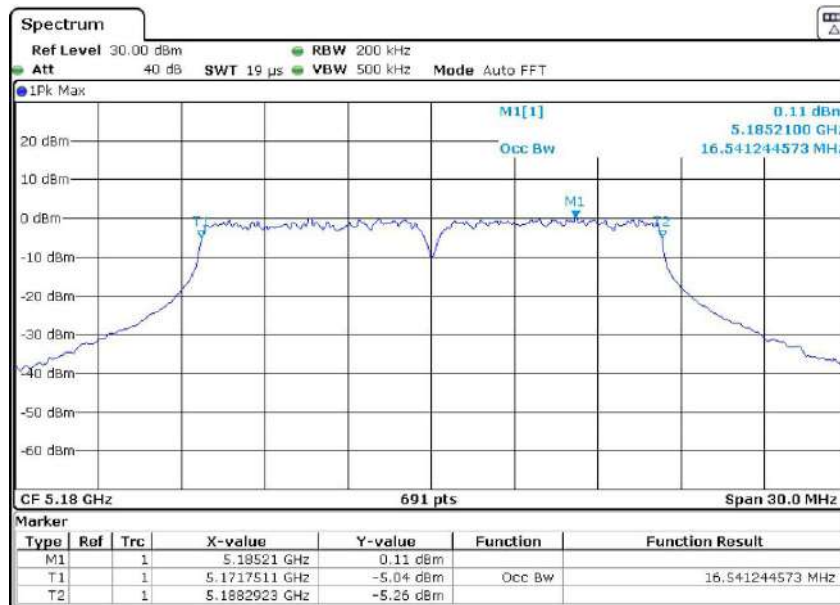
99% OBW 802.11ax160
Channel: 163



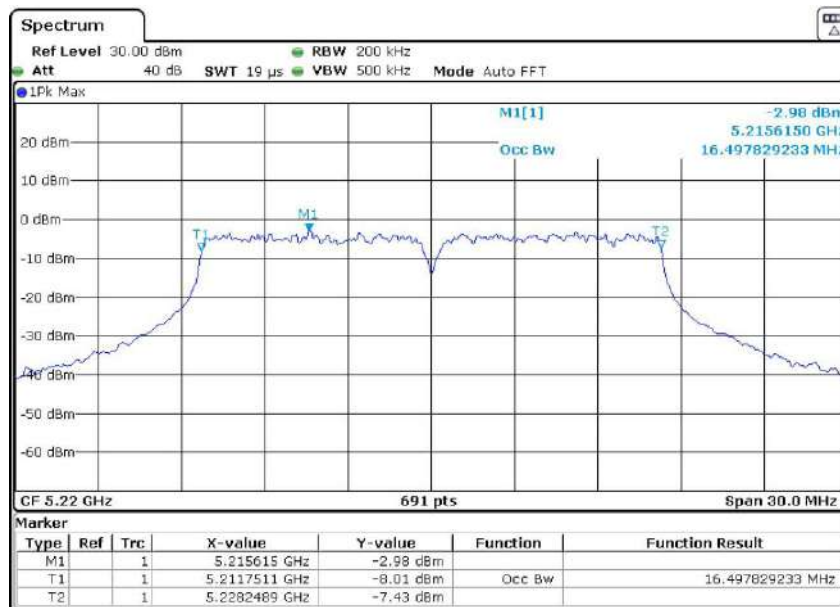
Report No.: AAEMT/EMC/221128-04-08

Test plots as followed: CHAIN 1

99% OBW 802.11a
Channel: 36

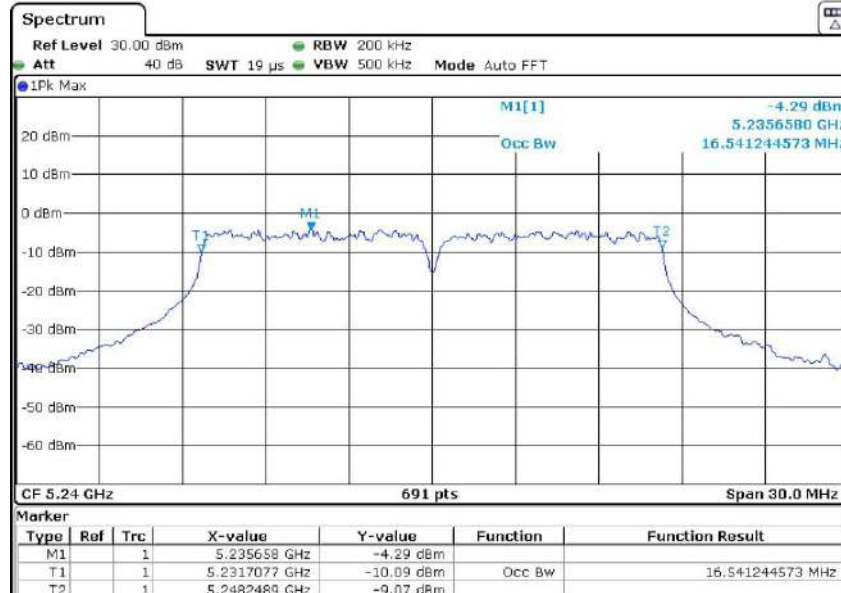


Channel: 44



Report No.: AAEMT/EMC/221128-04-08

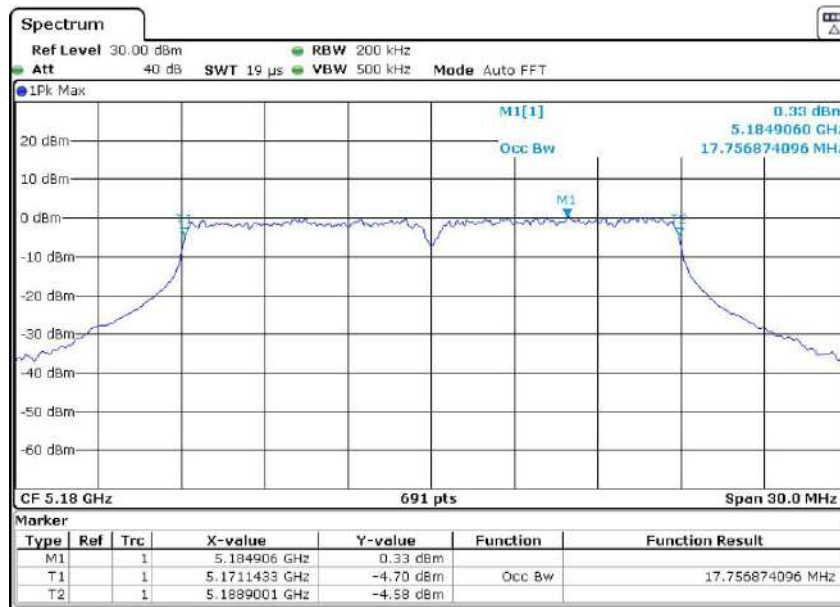
Channel: 48



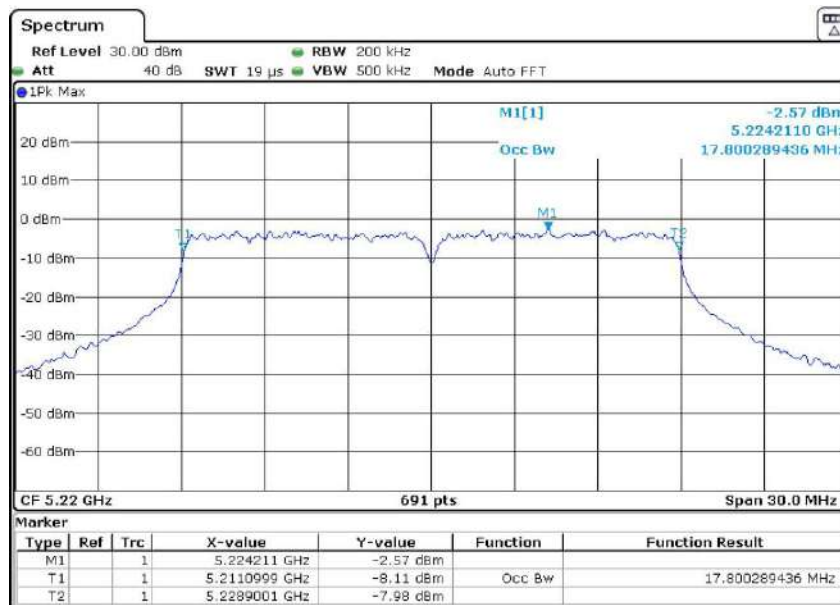
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11n20

Channel: 36

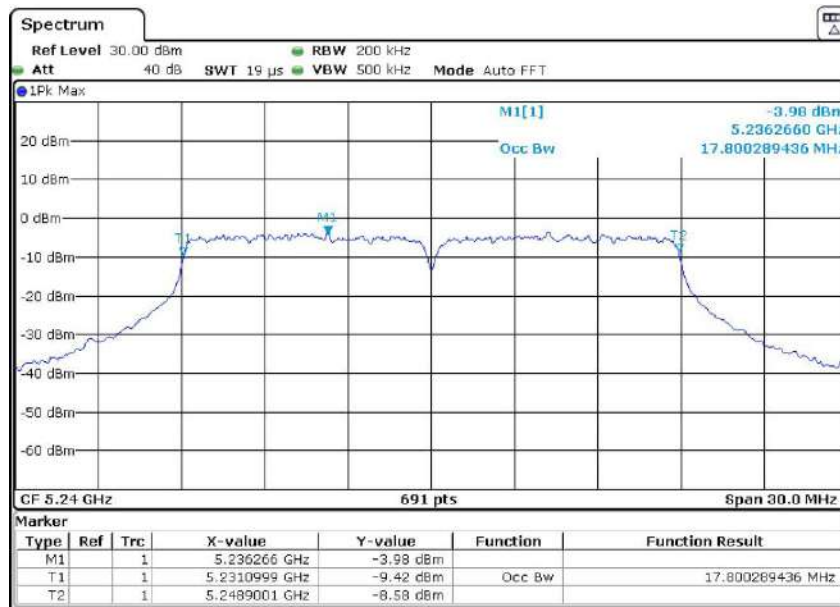


Channel: 44



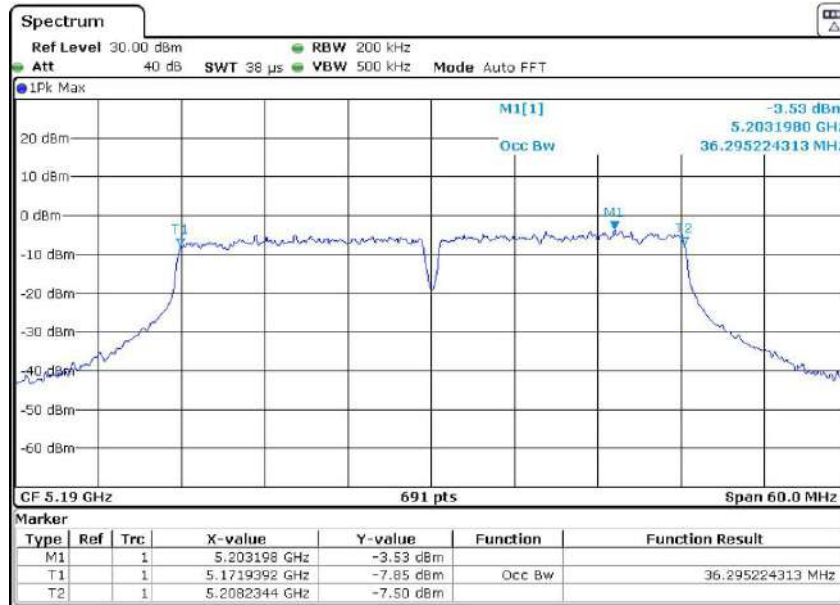
Report No.: AAEMT/EMC/221128-04-08

Channel: 48

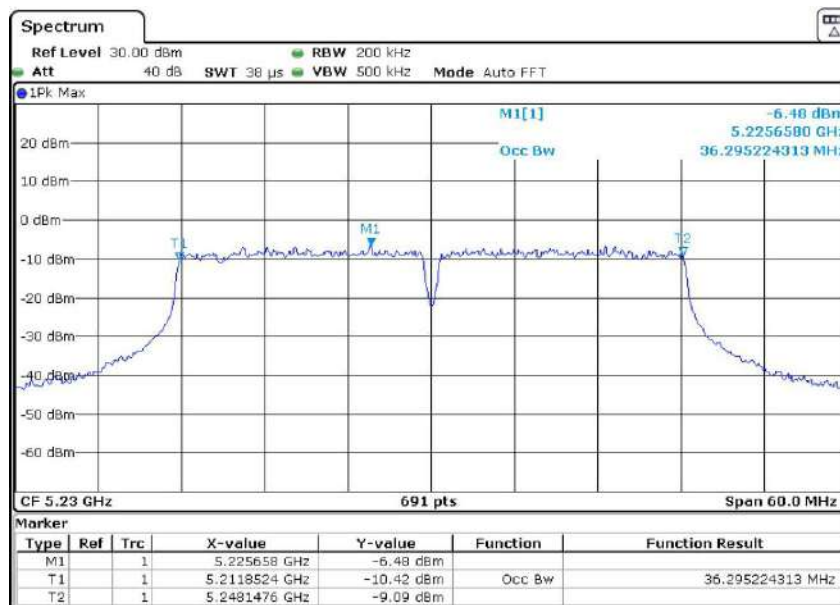


Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11n40
Channel: 38



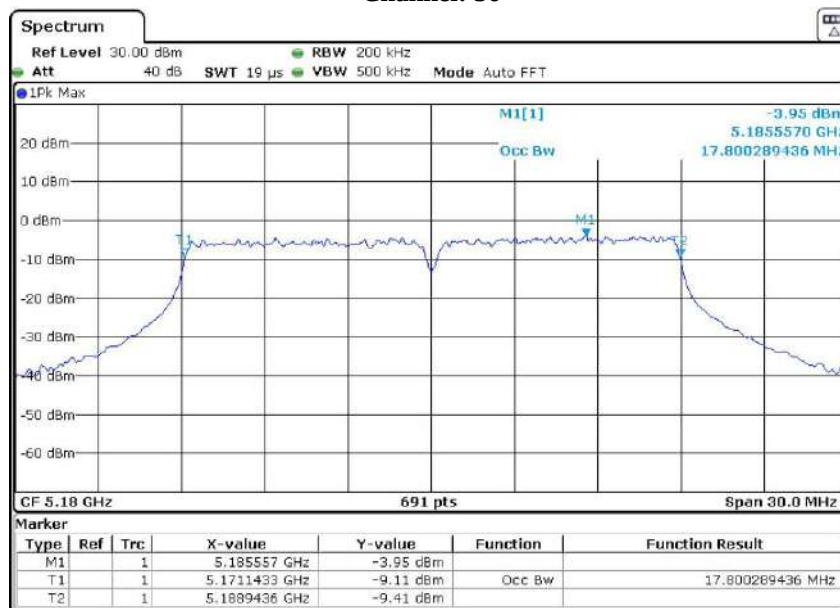
Channel: 46



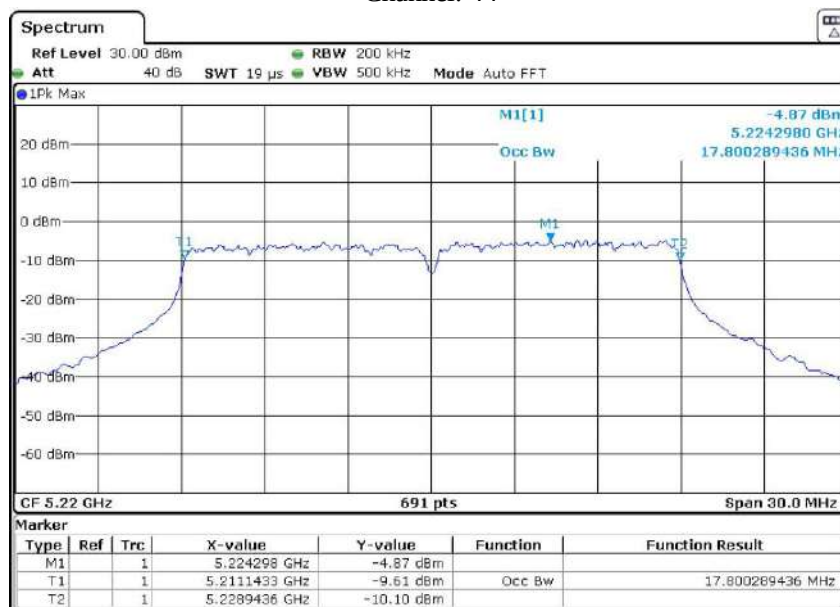
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ac20

Channel: 36

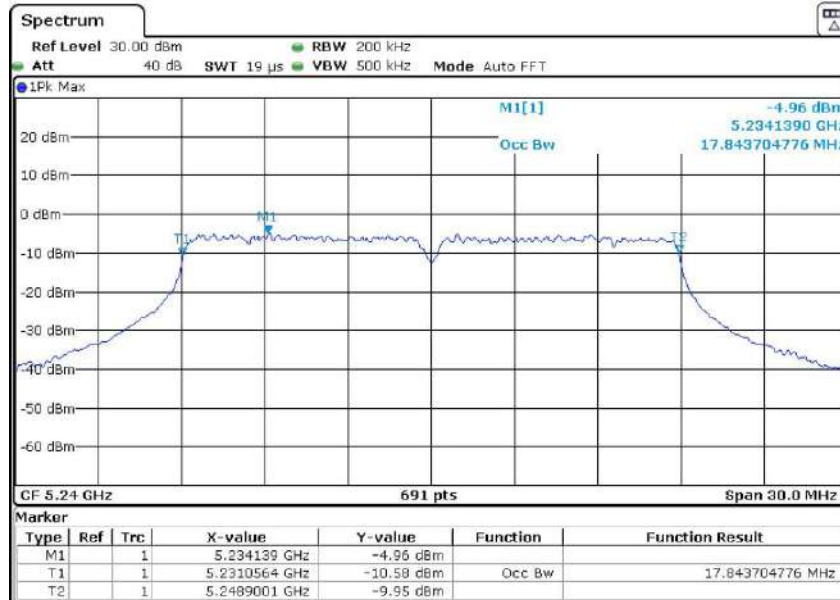


Channel: 44



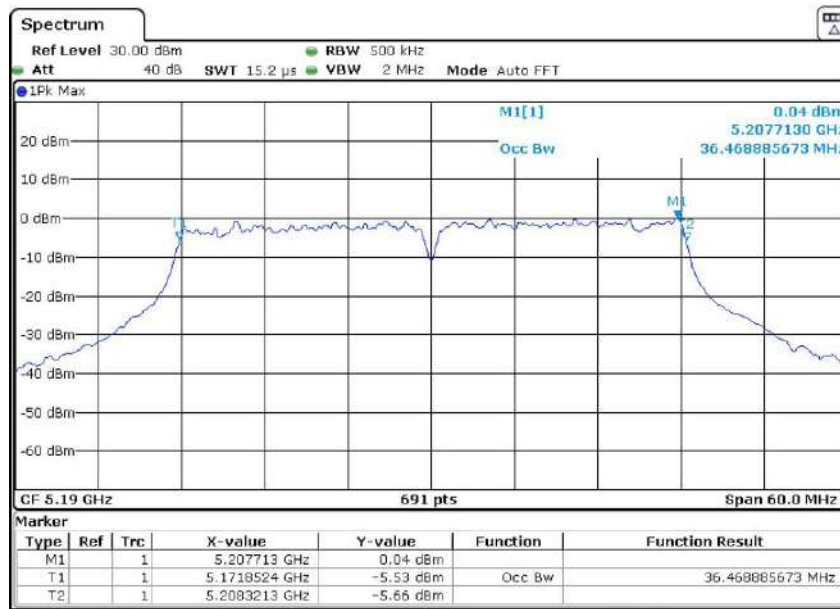
Report No.: AAEMT/EMC/221128-04-08

Channel: 48

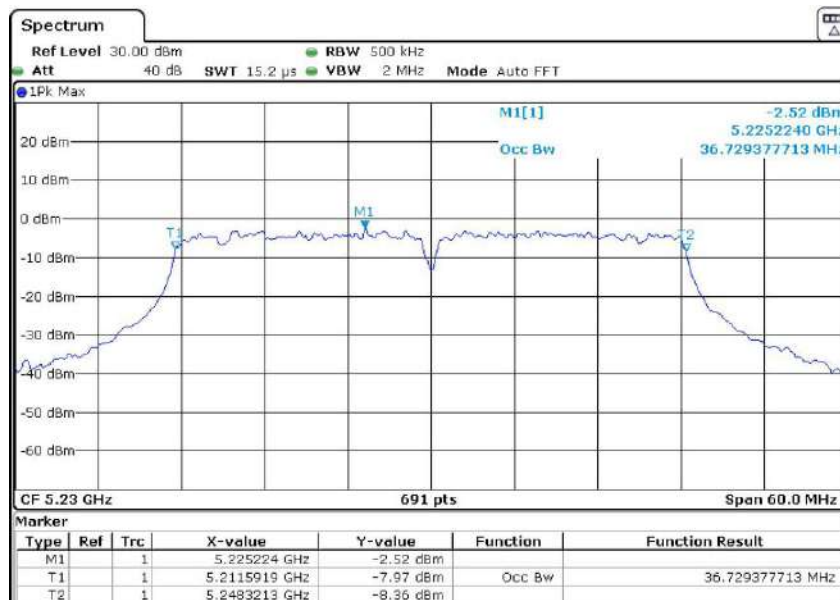


Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ac40
Channel: 38

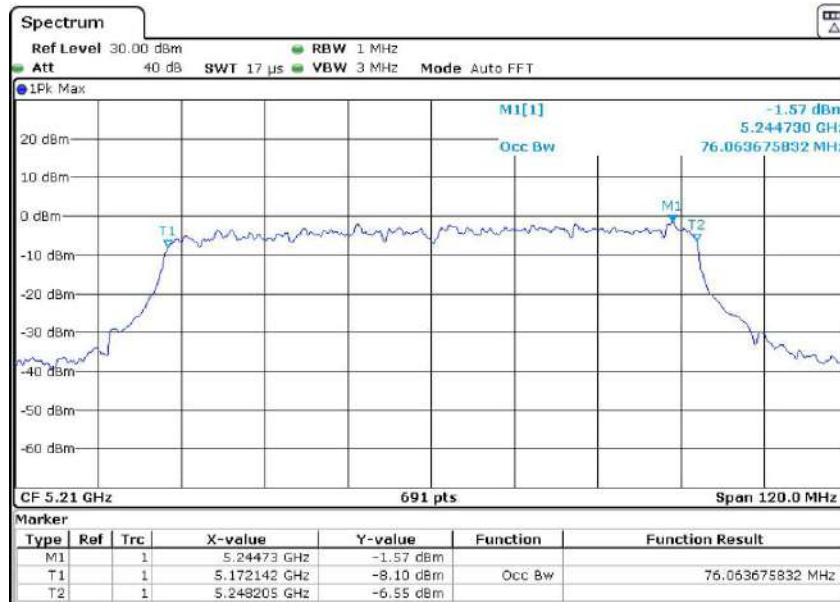


Channel: 46



Report No.: AAEMT/EMC/221128-04-08

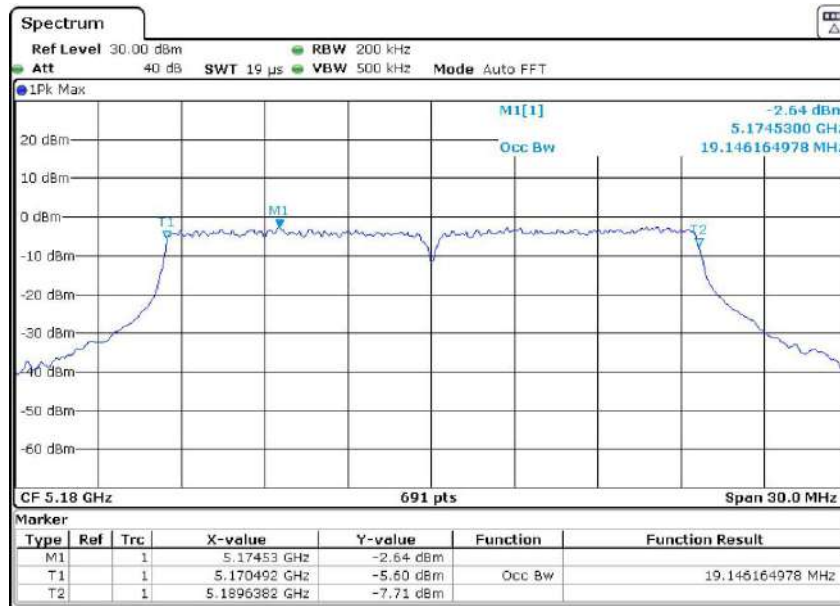
99% OBW 802.11ac80
Channel: 42



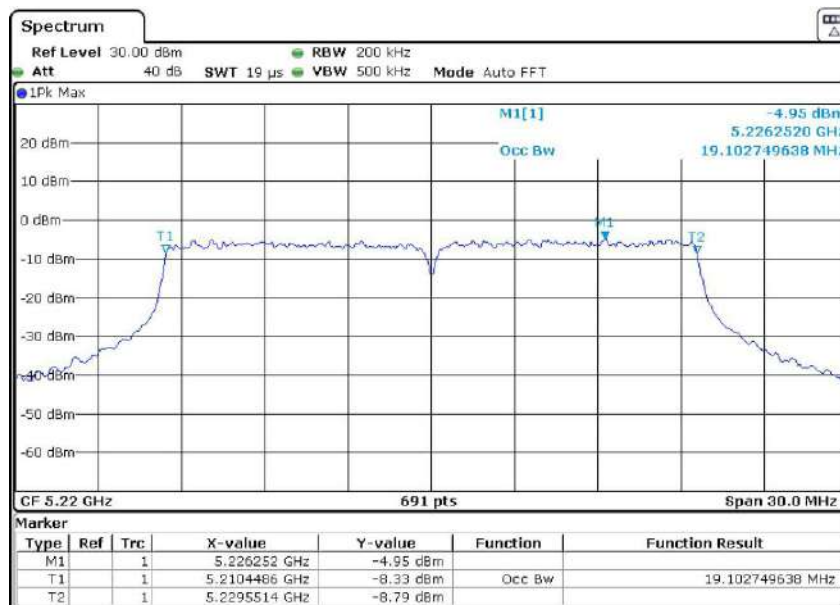
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax20

Channel: 36

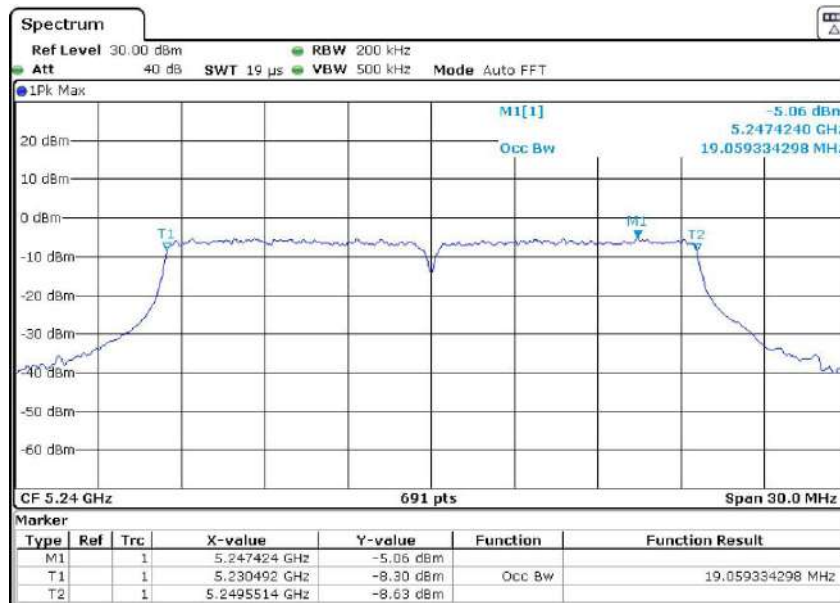


Channel: 44



Report No.: AAEMT/EMC/221128-04-08

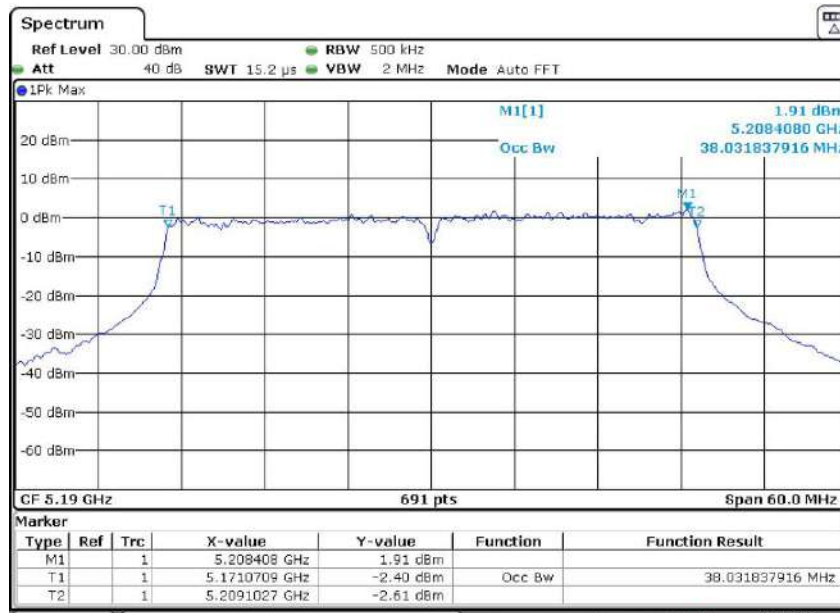
Channel: 48



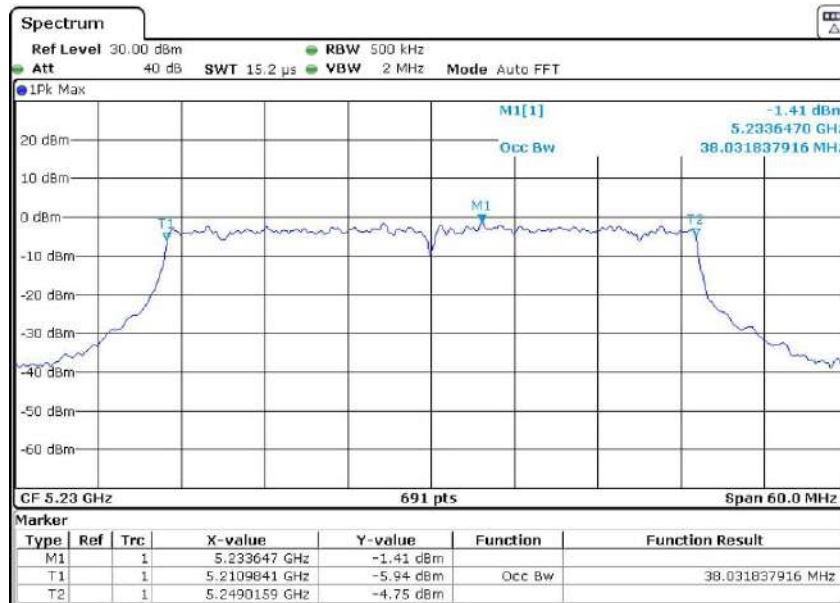
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax40

Channel: 38

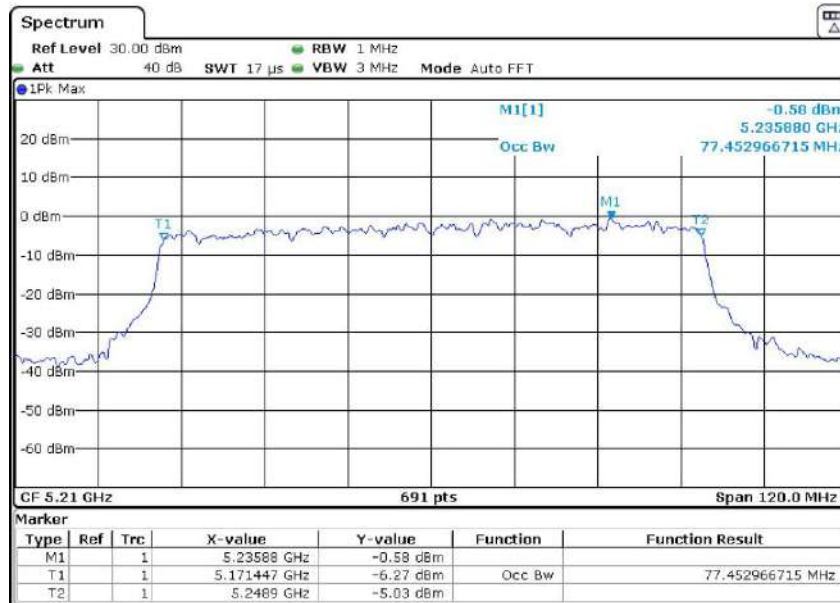


Channel: 46



Report No.: AAEMT/EMC/221128-04-08

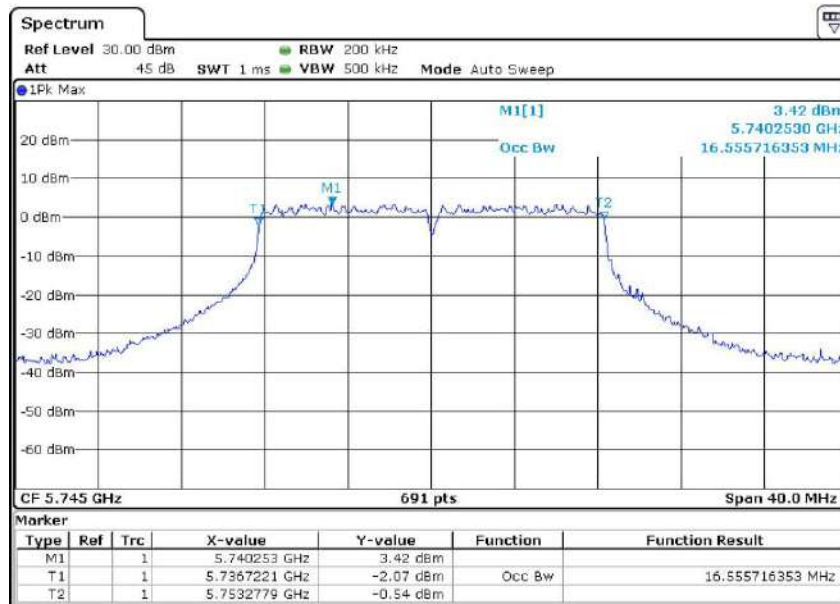
99% OBW 802.11ax80
Channel: 42



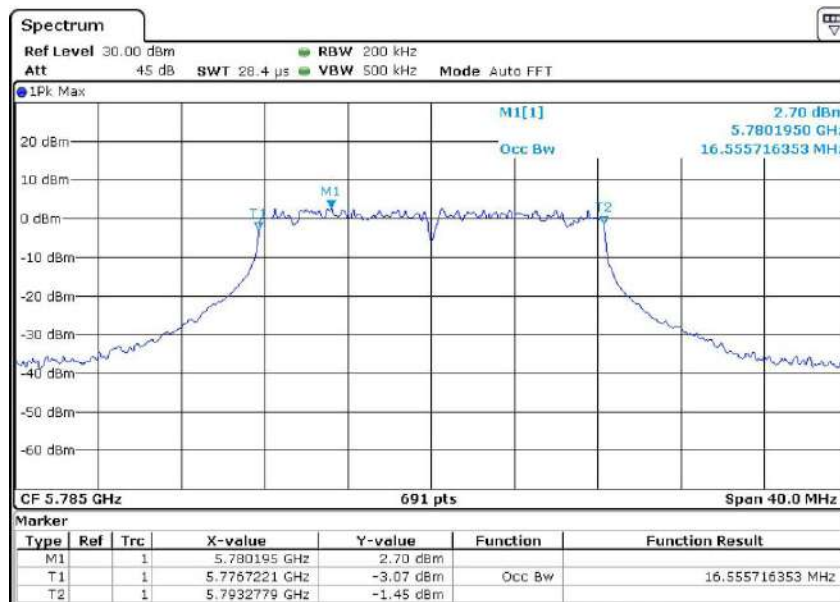
Test plots as followed: CHAIN 1

99% OBW 802.11a

Channel: 149

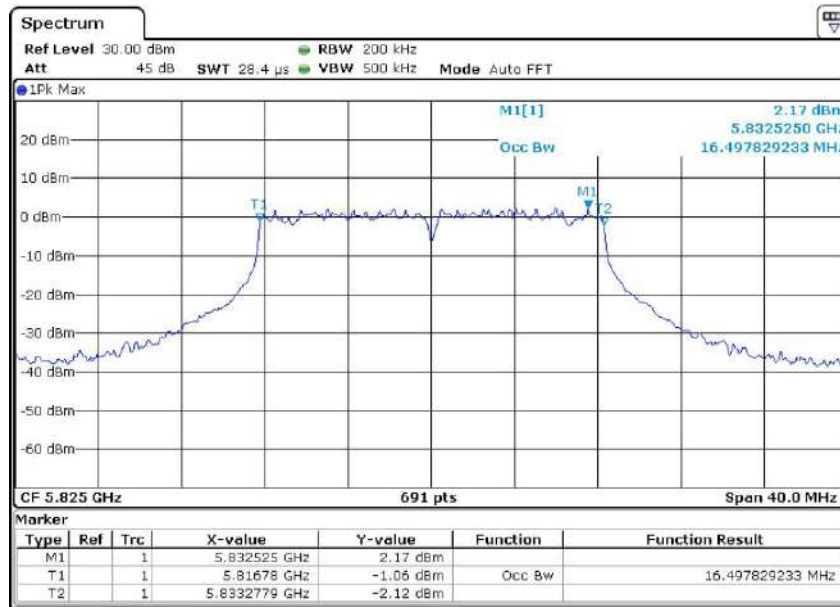


Channel: 157



Report No.: AAEMT/EMC/221128-04-08

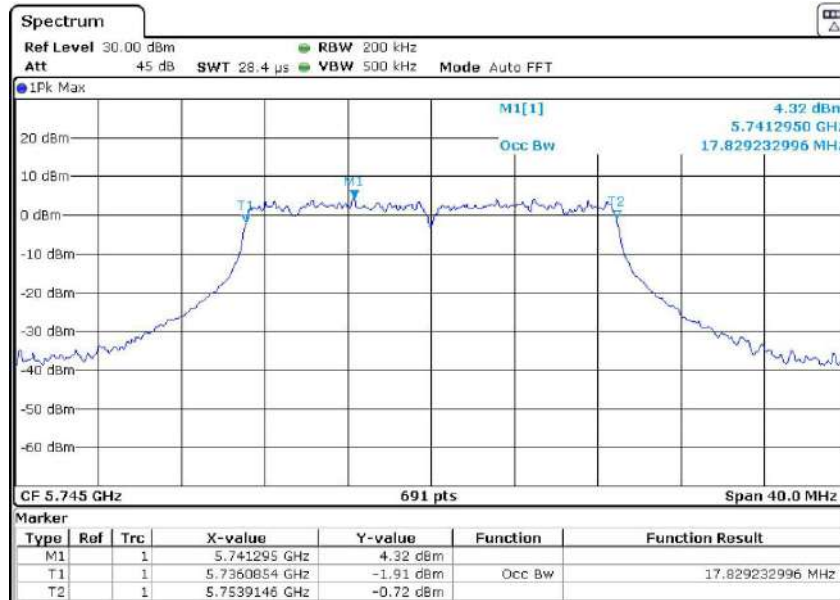
Channel: 165



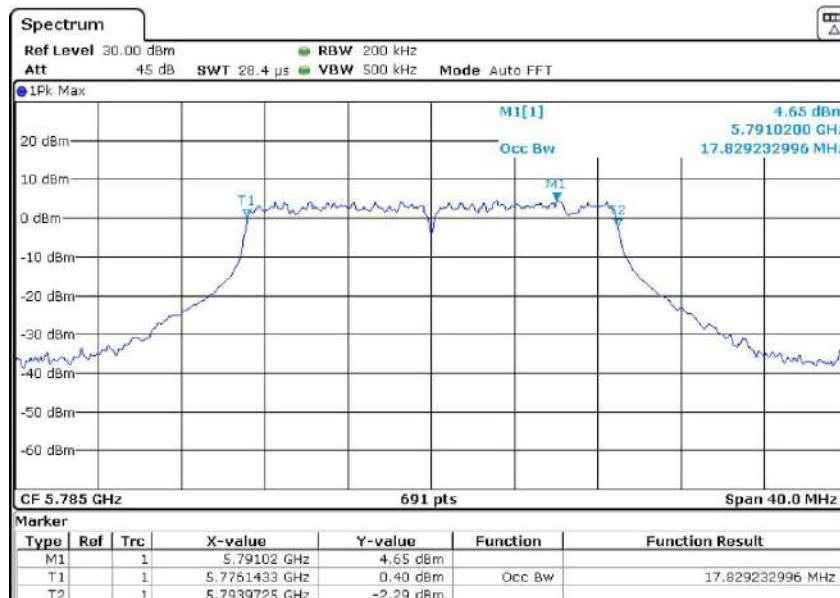
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11n20

Channel: 149

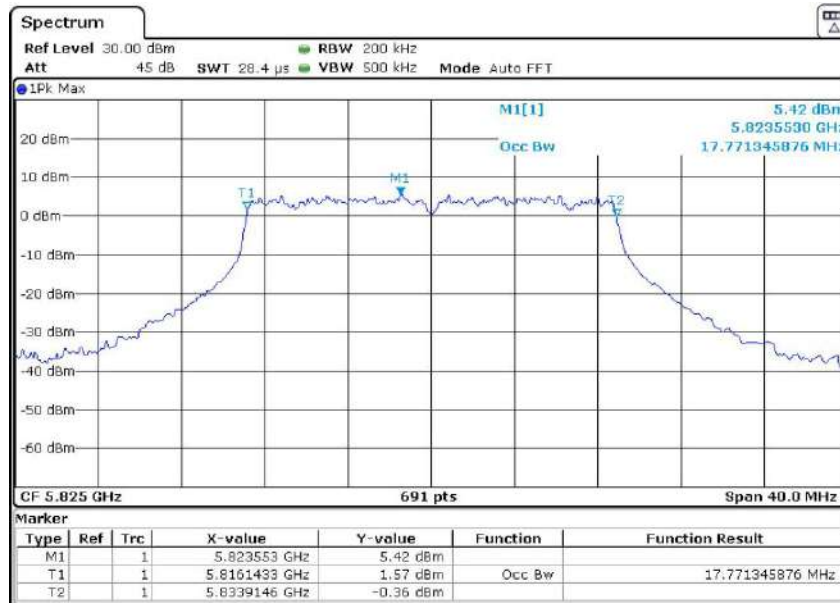


Channel: 157



Report No.: AAEMT/EMC/221128-04-08

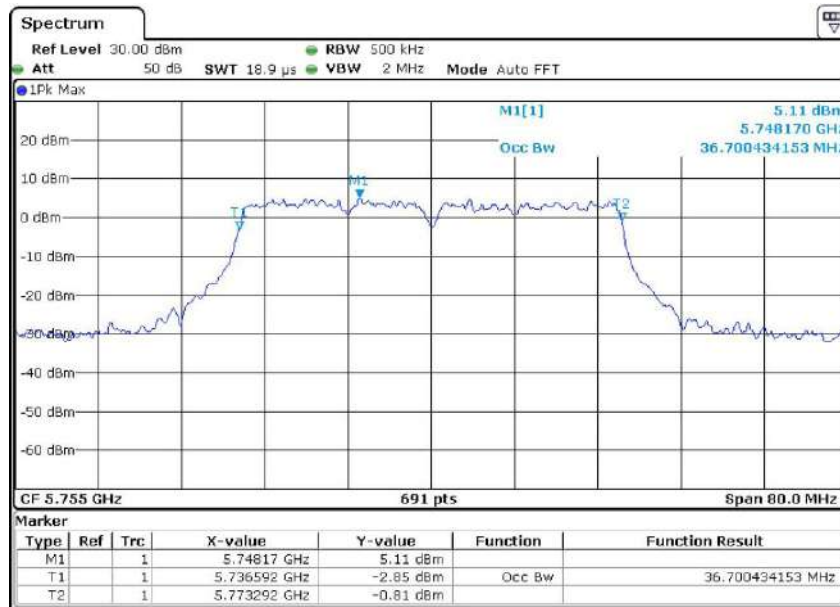
Channel: 165



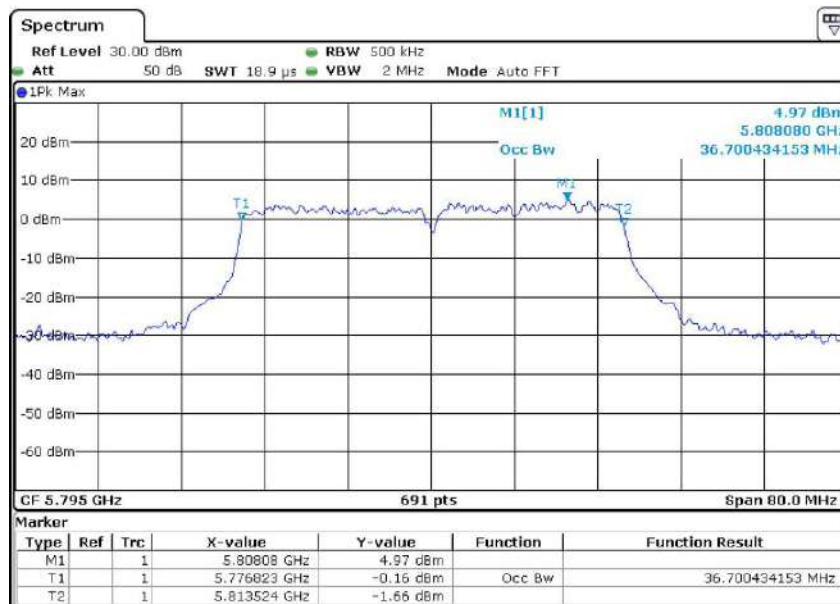
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11n40

Channel: 151



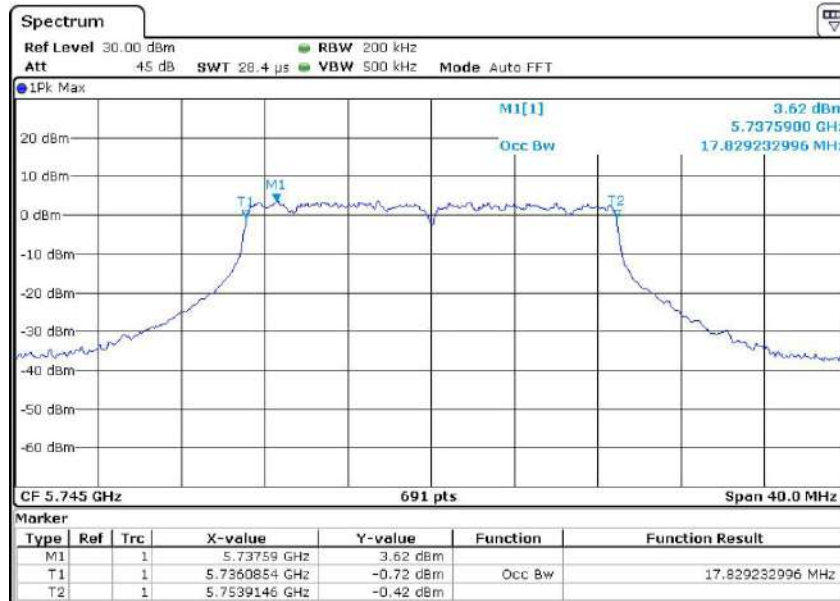
Channel: 159



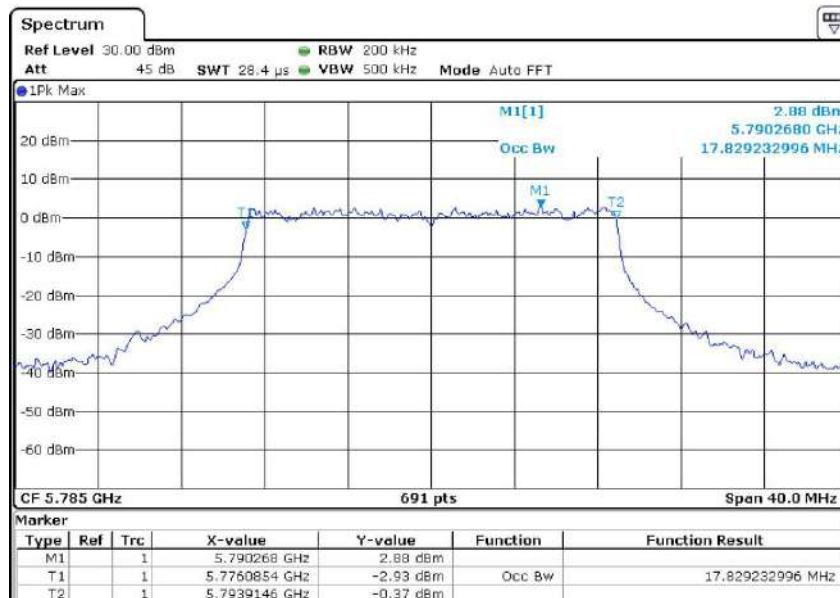
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ac20

Channel: 149

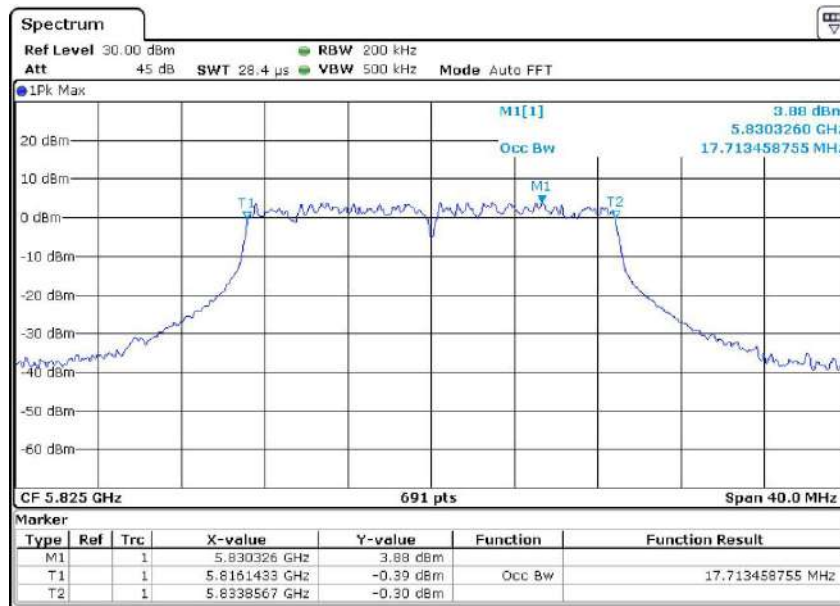


Channel: 157



Report No.: AAEMT/EMC/221128-04-08

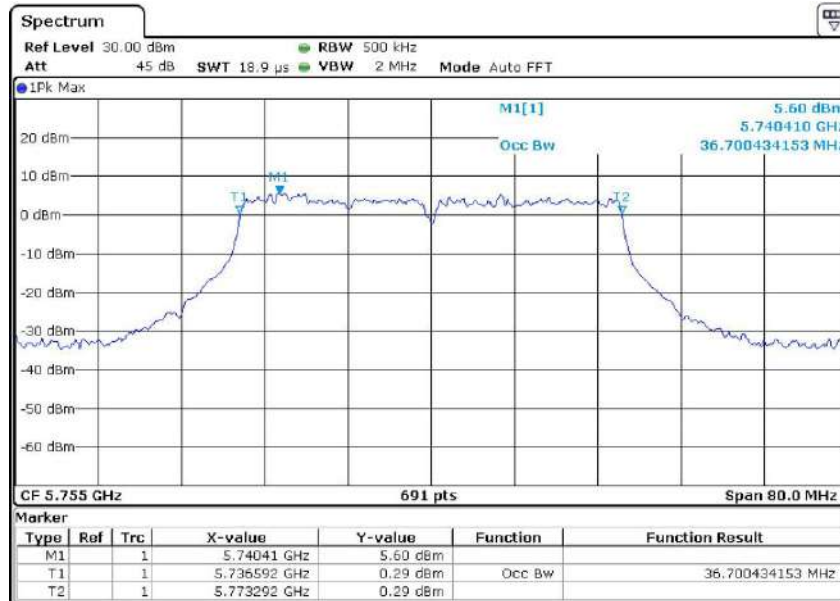
Channel:165



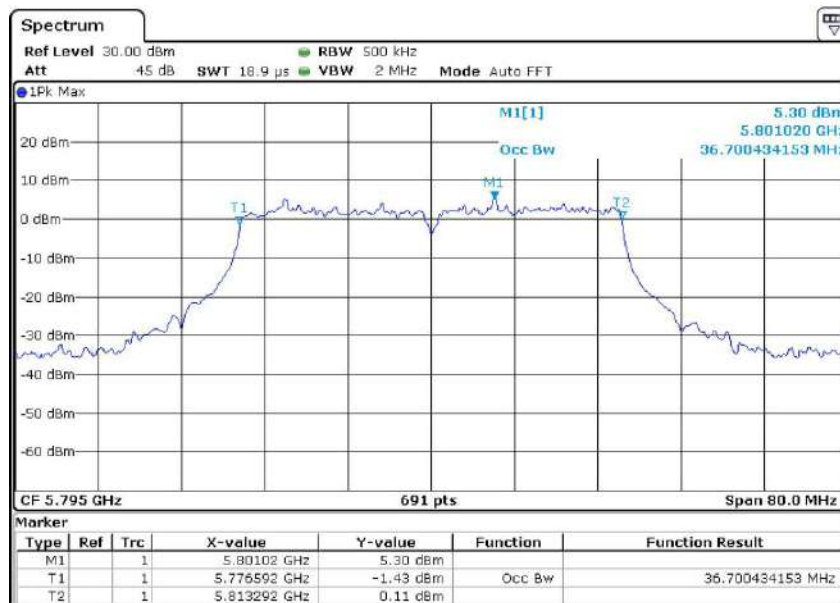
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ac40

Channel:151



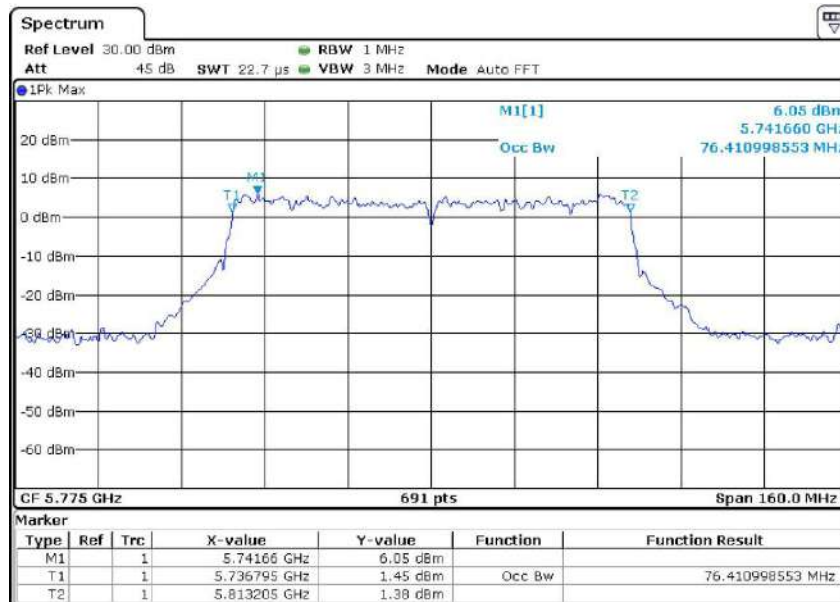
Channel:159



Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ac80

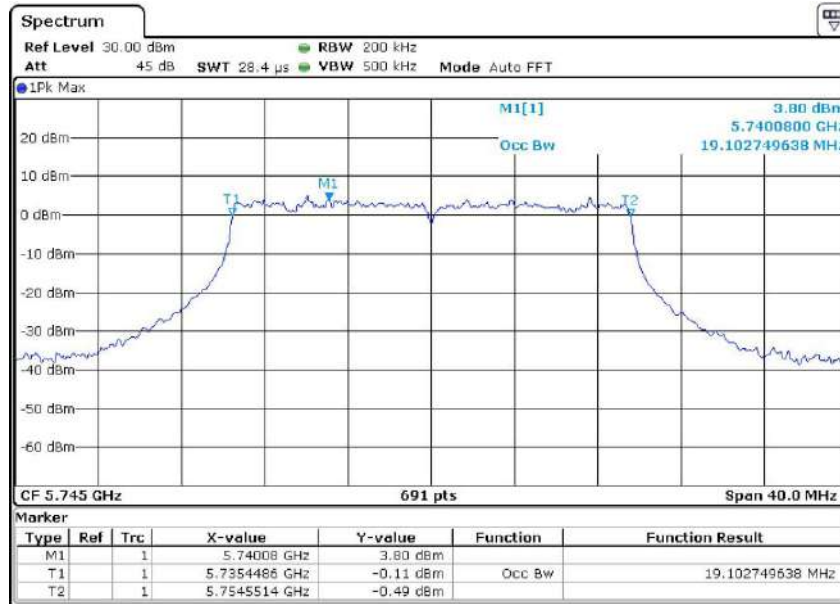
Channel:155



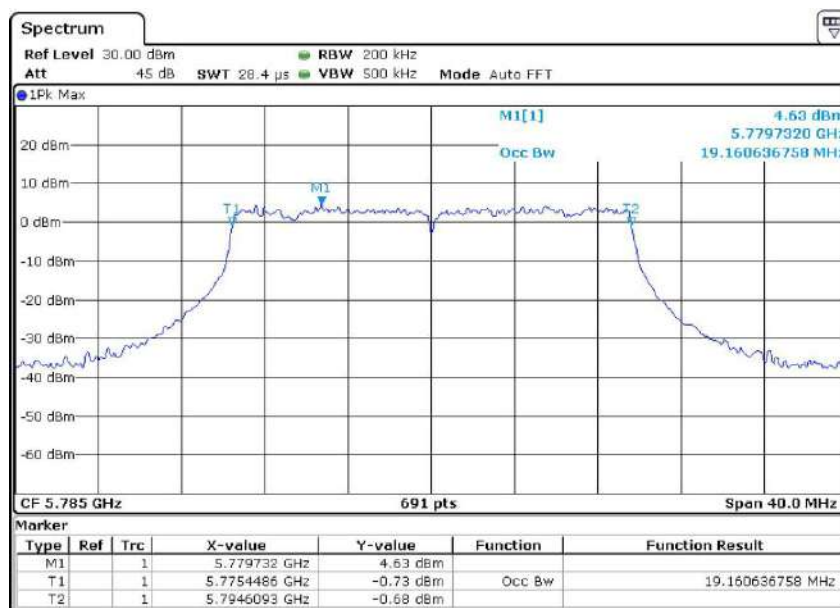
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax20

Channel:149

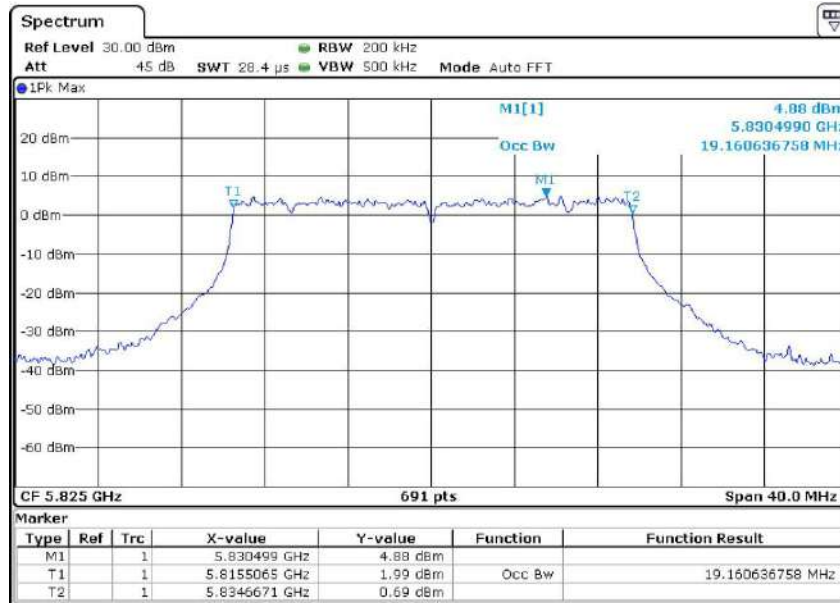


Channel: 157



Report No.: AAEMT/EMC/221128-04-08

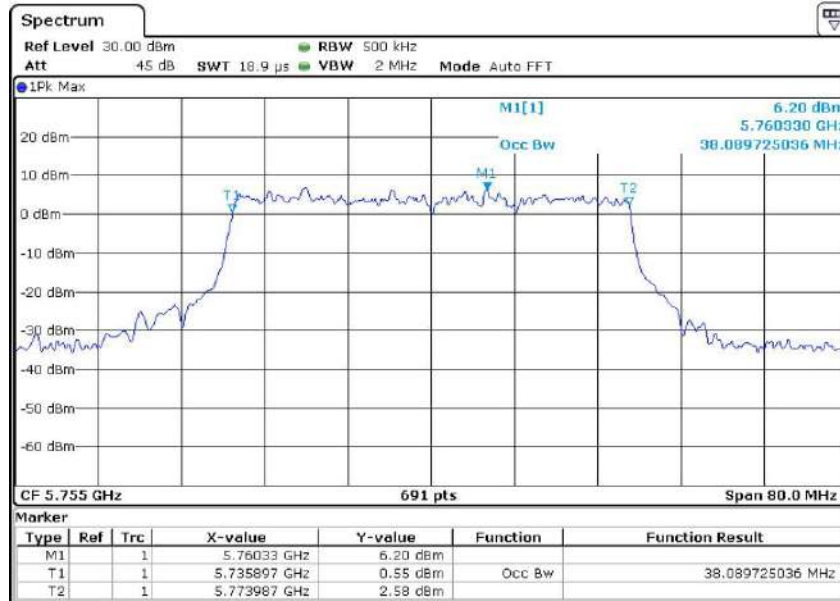
Channel: 165



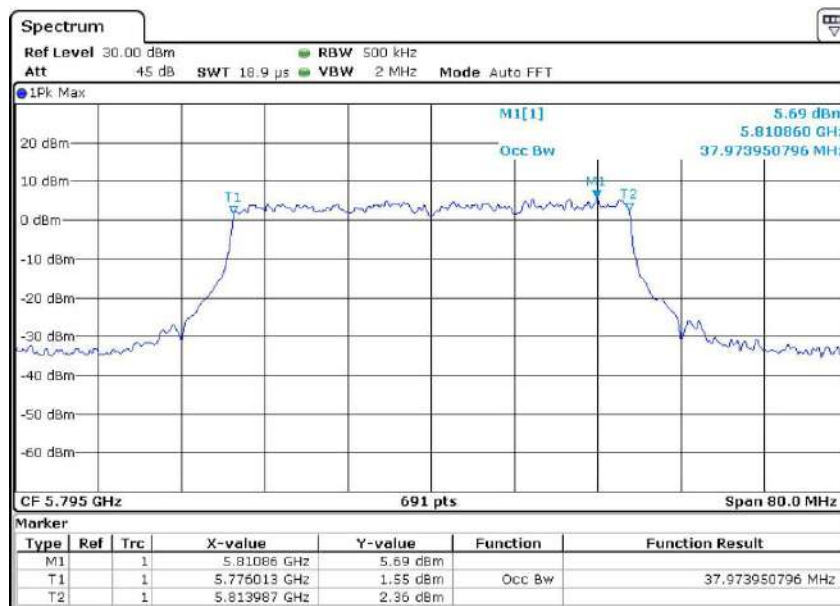
Report No.: AAEMT/EMC/221128-04-08

99% OBW 802.11ax40

Channel: 151



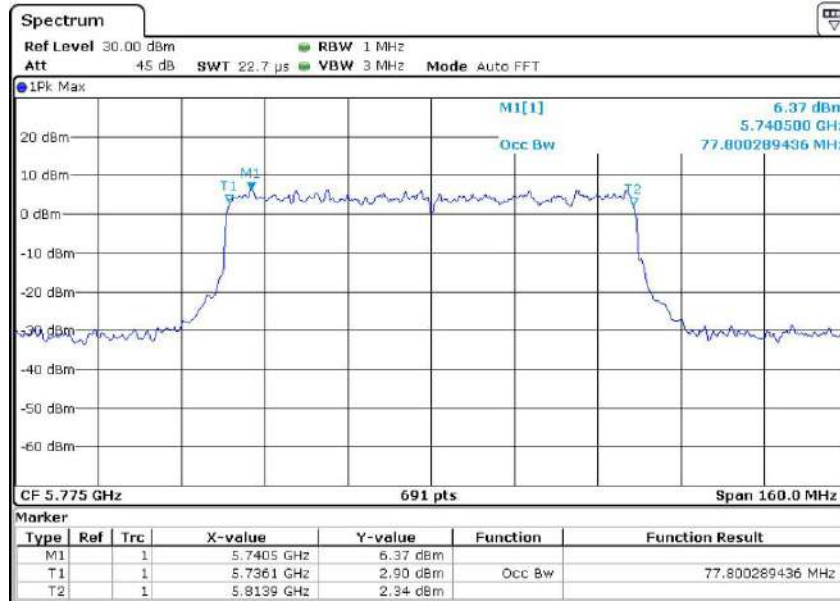
Channel: 159



Report No.: AAEMT/EMC/221128-04-08

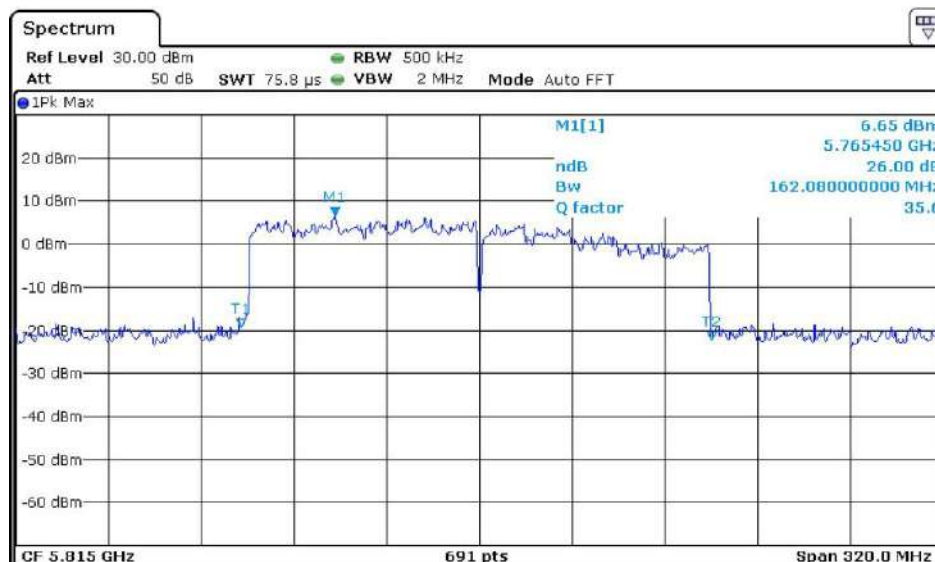
99% OBW 802.11ax80

Channel: 155

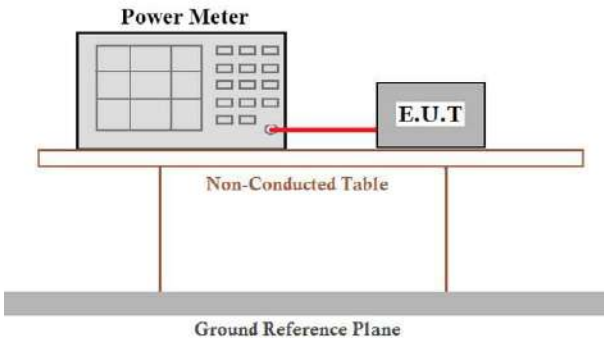


99% OBW 802.11ax160

Channel: 163



6. MAXIMUM CONDUCTED OUTPUT POWER

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW. For the band 5.745-5.850 GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 30dBm
Test setup:	
Test procedure:	Measurement using an RF average power meter (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B). (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter. (iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 percent).
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details

6.1. TEST RESULT CHAIN 0

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	17.39	17.88	18.07	18.58	23.98	Pass
44	5220.00	16.33	17.06	17.08	17.67	23.98	Pass
48	5240.00	15.23	15.06	15.21	15.89	23.98	Pass
149	5745.00	22.24	21.60	21.65	22.60	30	Pass
157	5785.00	20.36	20.68	20.43	21.37	30	Pass
165	5825.00	20.36	20.46	20.33	21.48	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	21.84	21.06	22.12	23.98	Pass
46	5230.00	21.12	20.12	20.69	23.98	Pass
151	5755.00	22.31	21.80	23.19	30	Pass
159	5795.00	20.59	20.20	21.44	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	19.05	20.27	23.98	Pass
155	5775.00	21.50	22.65	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)	Limit(dBm)	Result
		802.11ax(HE160)		
163	5815.00	18.19	30	Pass

TEST RESULT CHAIN 1

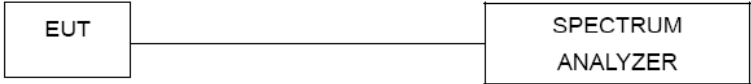
CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	20.93	18.95	15.08	15.97	23.98	Pass
44	5220.00	14.98	15.61	14.43	15.36	23.98	Pass
48	5240.00	14.12	14.99	14.26	15.29	23.98	Pass
149	5745.00	23.67	22.59	21.34	22.38	30	Pass
157	5785.00	21.90	20.53	20.44	20.72	30	Pass
165	5825.00	20.03	19.48	21.34	19.95	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	17.86	17.33	19.05	23.98	Pass
46	5230.00	15.02	14.89	16.37	23.98	Pass
151	5755.00	22.33	21.70	22.09	30	Pass
159	5795.00	20.38	19.94	20.37	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	15.43	16.57	23.98	Pass
155	5775.00	20.31	21.40	30	Pass

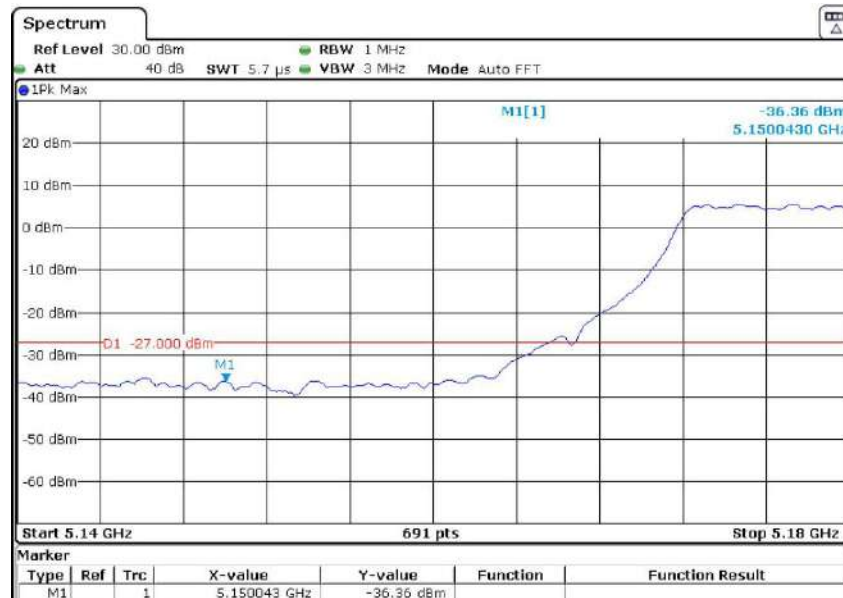
CH. No.	Frequency (MHz)	Output Power (dBm)	Limit(dBm)	Result
		802.11ax(HE160)		
163	5815.00	16.19	30	Pass

7. Band Edges Measurement

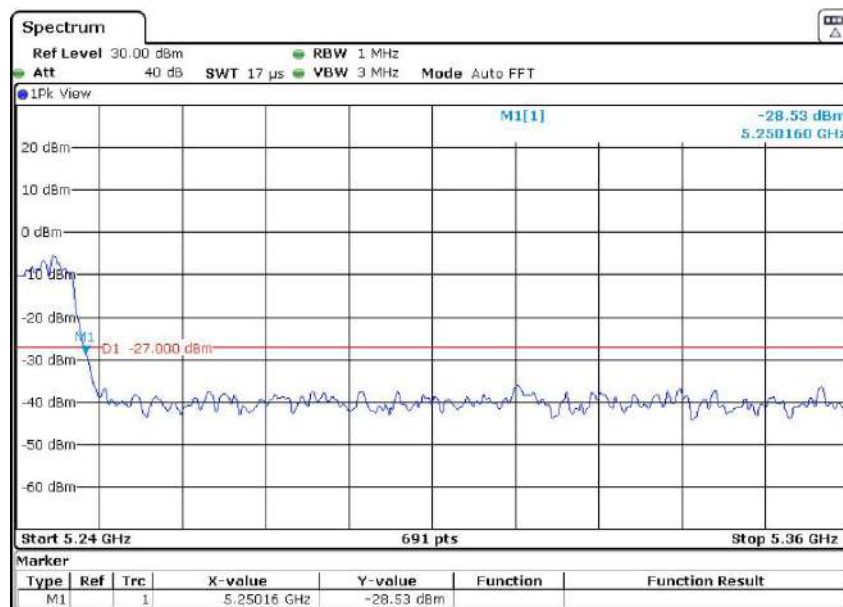
Test Requirement:	FCC Part15 E Section 15.407 and 5.205
Test Method:	ANSI C63.10:2013
Limit:	Undesirable emission limits: (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band. (3) For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
Test Procedure:	a. The Transmitter output of EUT was connected to the spectrum analyzer. Equipment mode: Spectrum analyzer Detector function: Peak mode SPAN: 100MHz RBW: 1 MHz VBW: 1 MHz Sweep time= Auto. b. Using Peak Search to read the peak power of Carrier frequencies after Maximum Hold function is completed. c. Find the next peak frequency outside the operation frequency band.
Test setup:	
Test results:	Pass

7.1. TEST RESULT CHAIN 0

802.11a (5.15GHz-5.25GHz) The Low Channel 36: 5180MHz

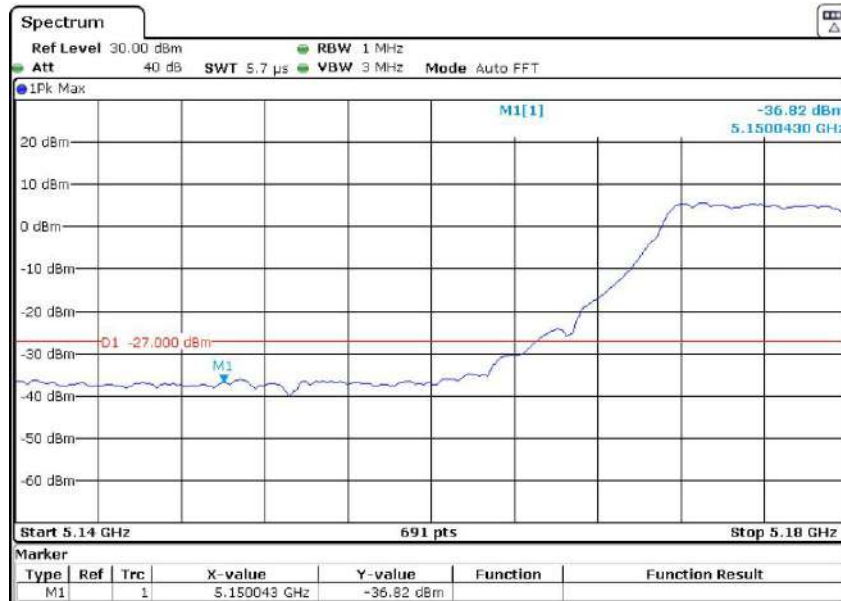


802.11a (5.15GHz-5.25GHz) The High Channel 48: 5240MHz

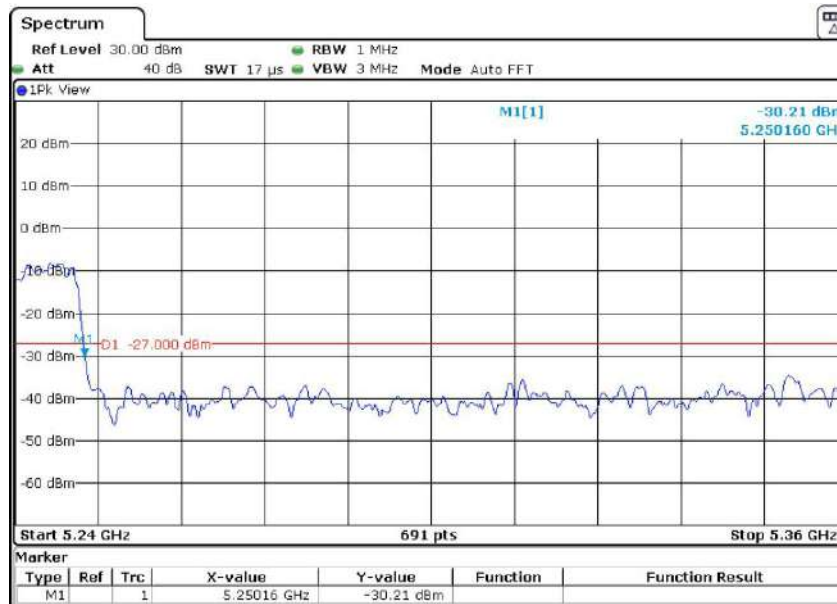


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802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

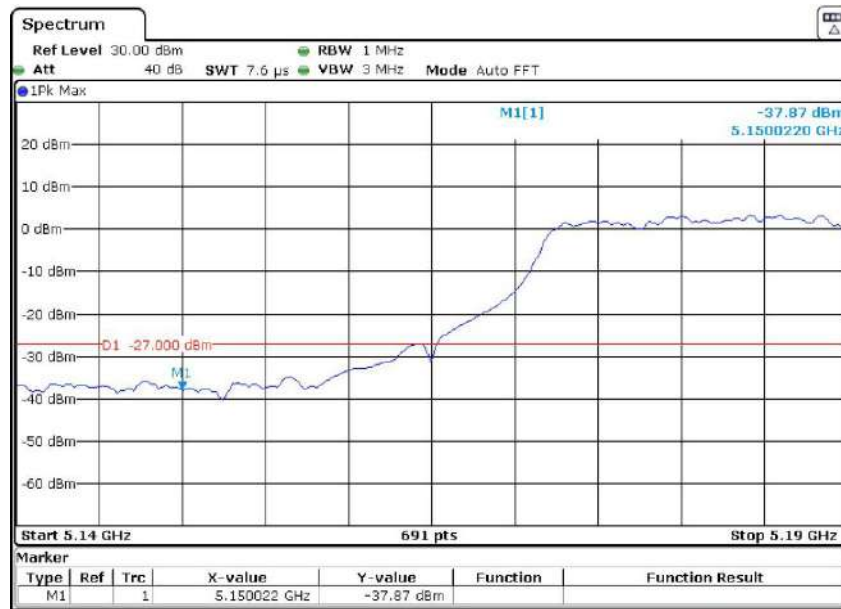


802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

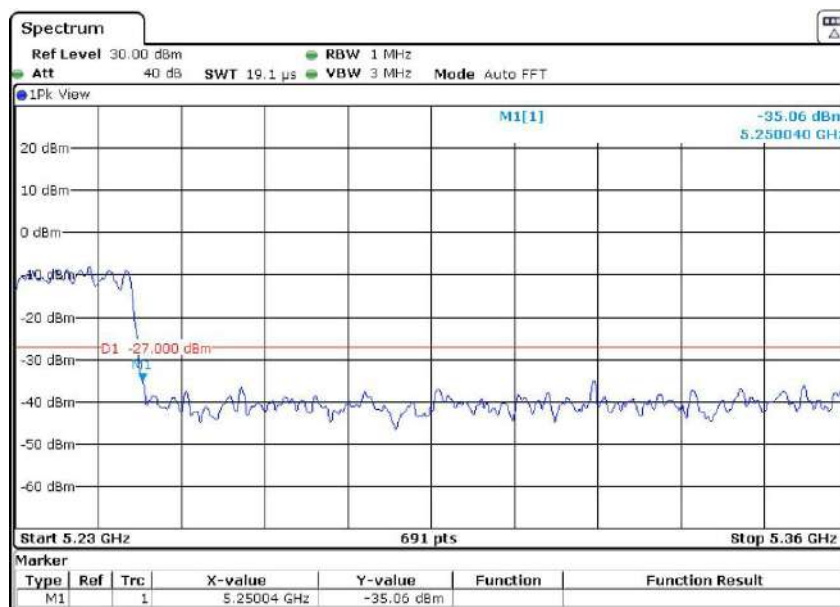


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802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

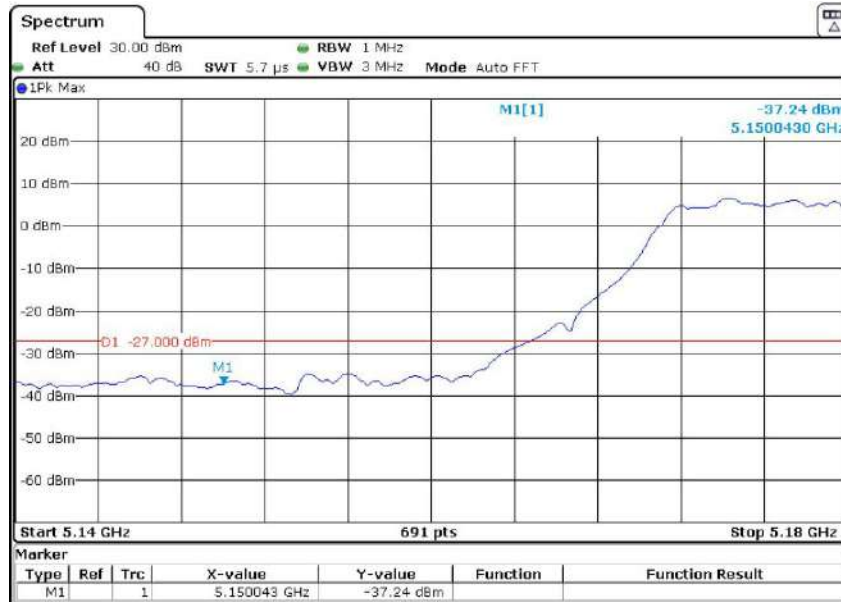


802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz

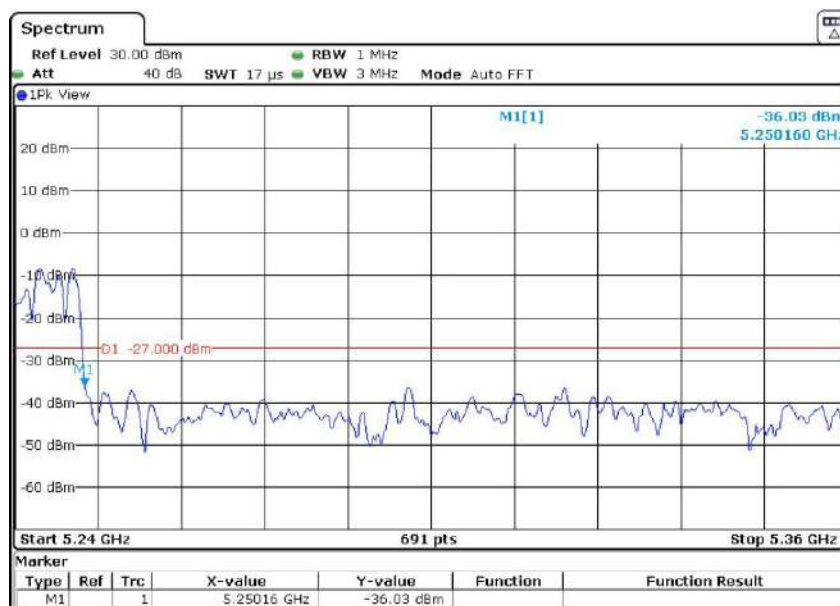


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802.11ac(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

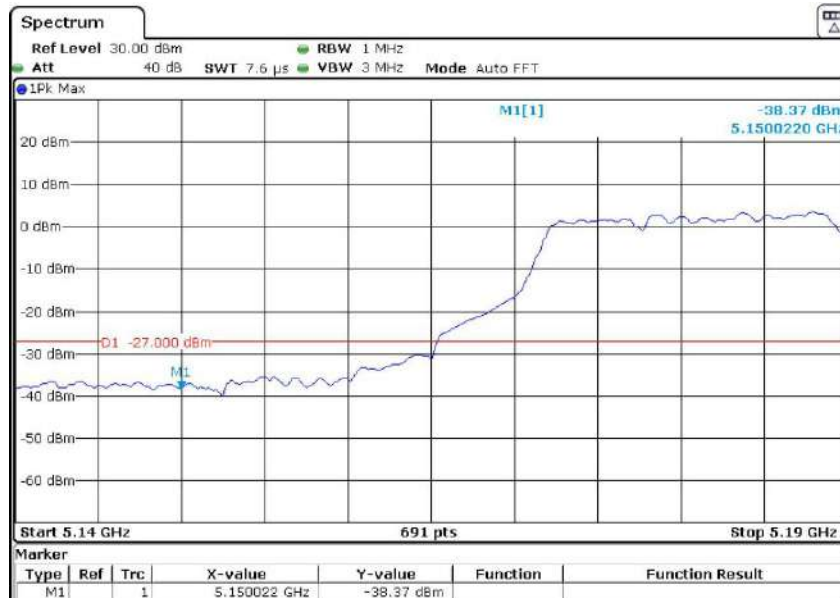


802.11ac(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

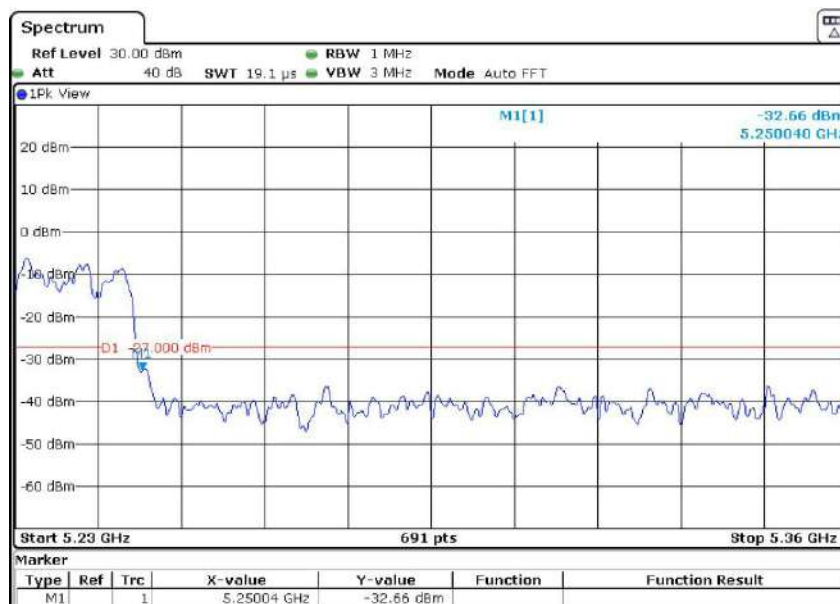


Report No.: AAEMT/EMC/221128-04-08

802.11ac(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

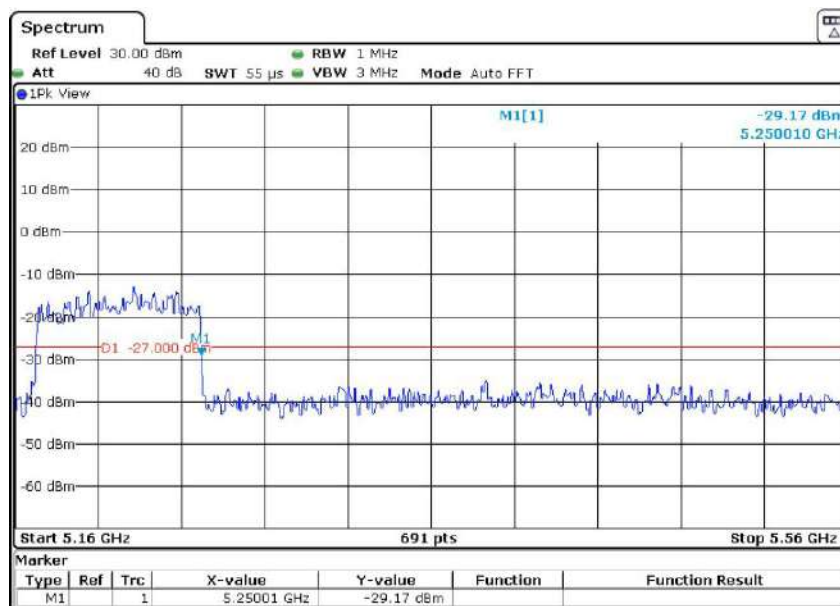
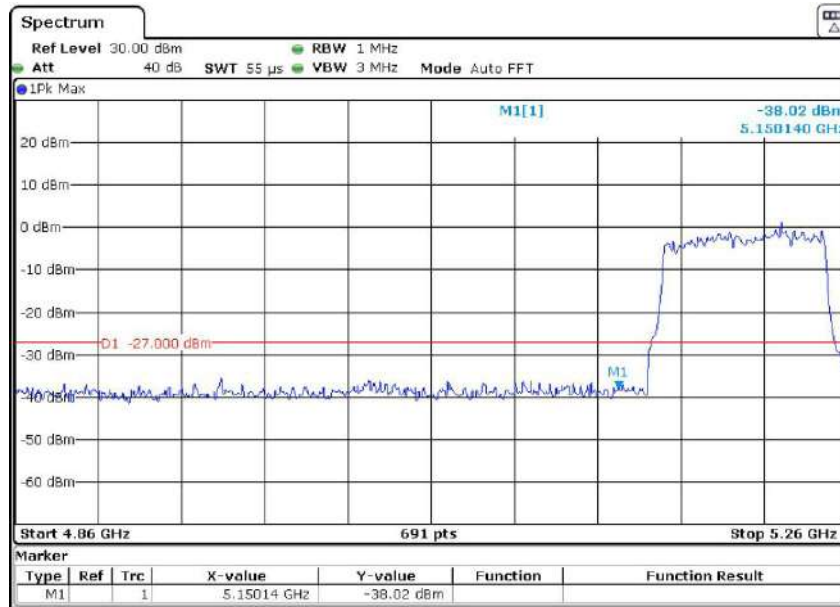


802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



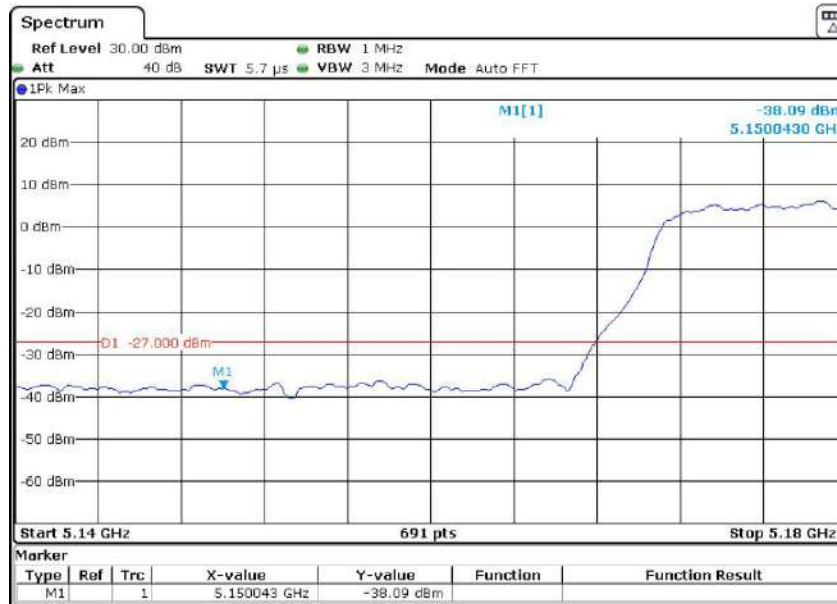
Report No.: AAEMT/EMC/221128-04-08

802.11ac(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz

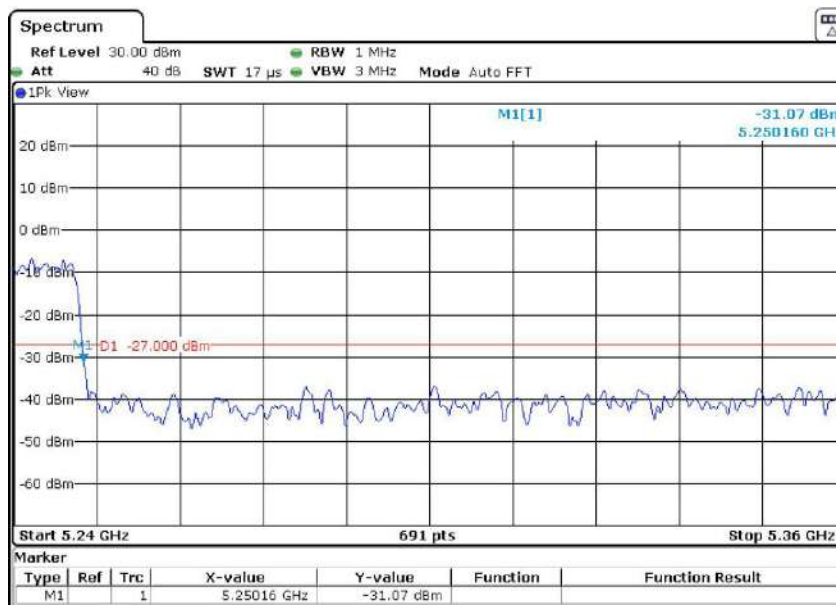


Report No.: AAEMT/EMC/221128-04-08

802.11ax(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

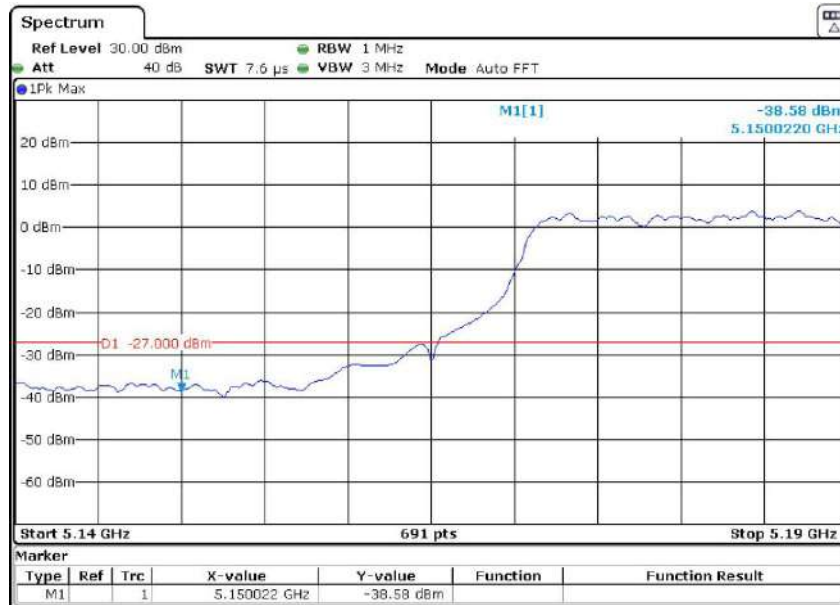


802.11ax(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

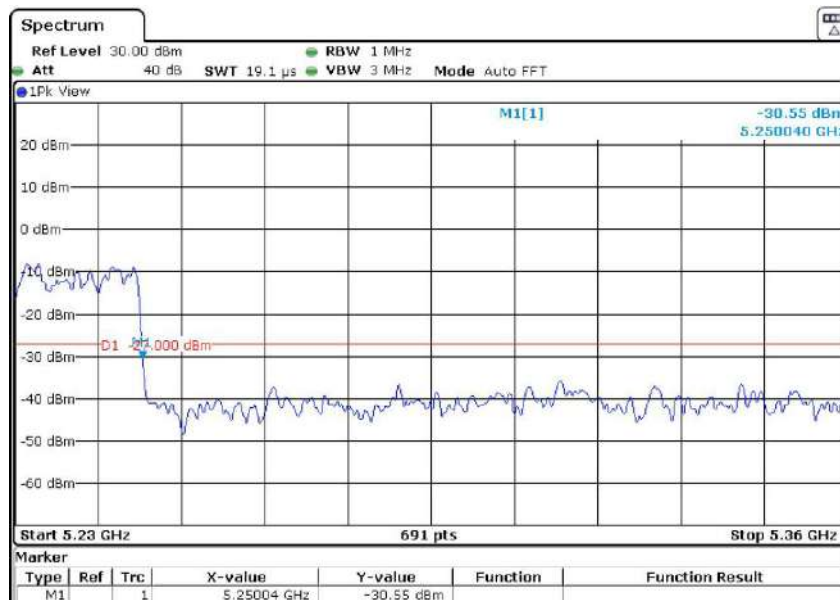


Report No.: AAEMT/EMC/221128-04-08

802.11ax(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

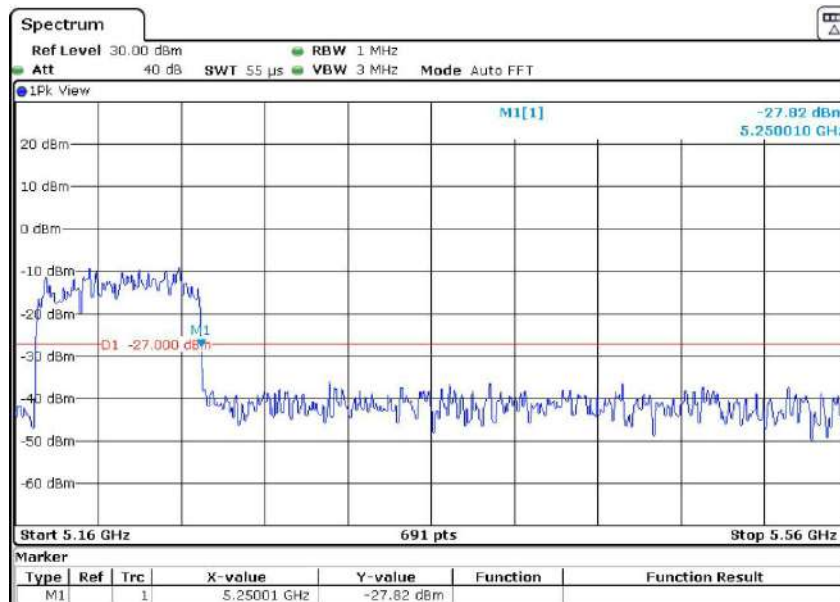
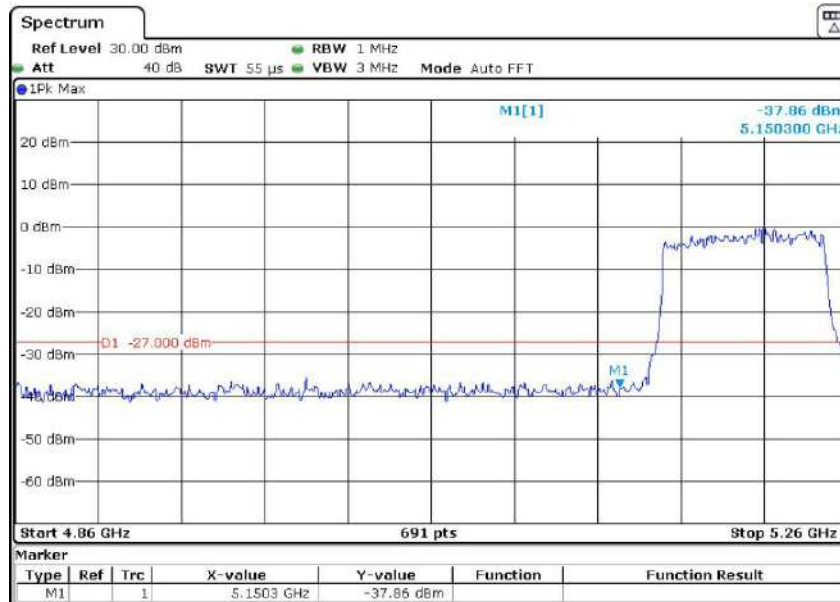


802.11ax(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



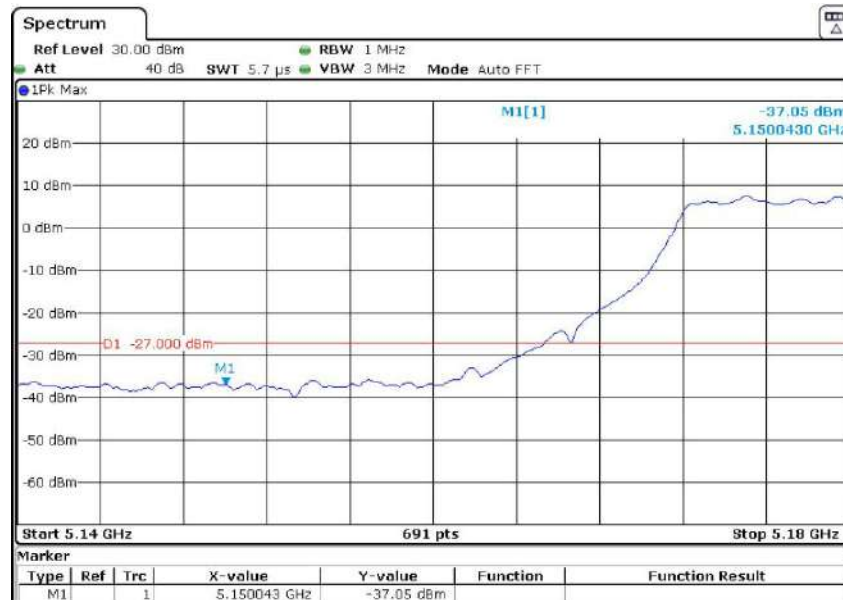
Report No.: AAEMT/EMC/221128-04-08

802.11ax(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz

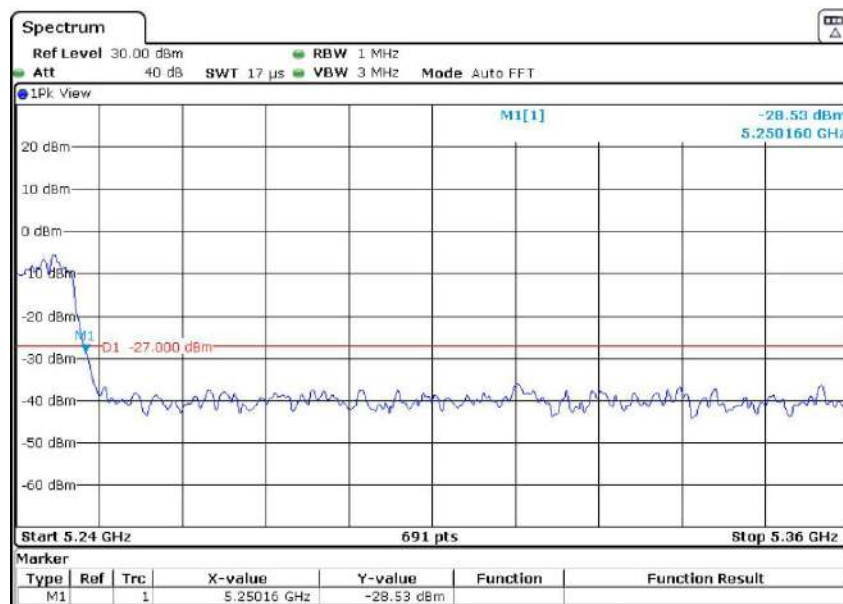


TEST RESULT CHAIN 1

802.11a (5.15GHz-5.25GHz) The Low Channel 36: 5180MHz

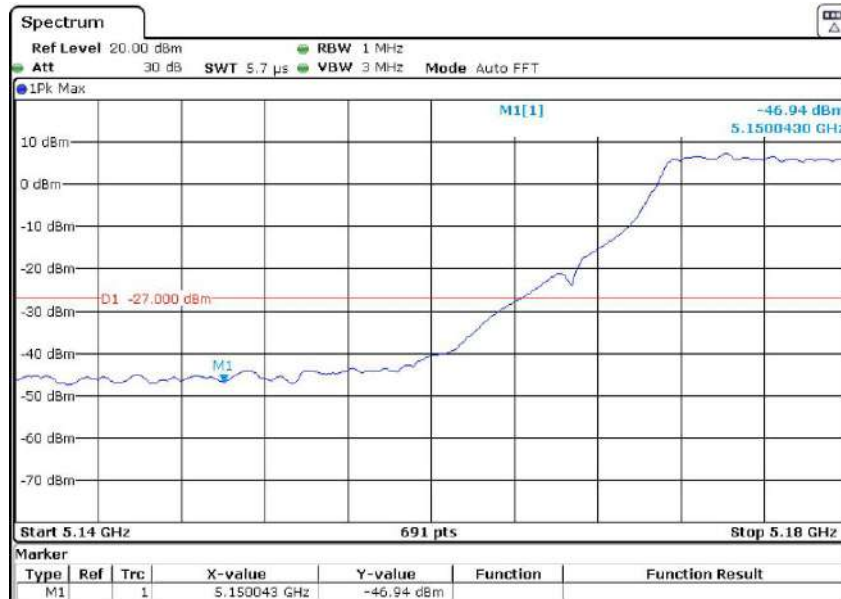


802.11a (5.15GHz-5.25GHz) The High Channel 48: 5240MHz

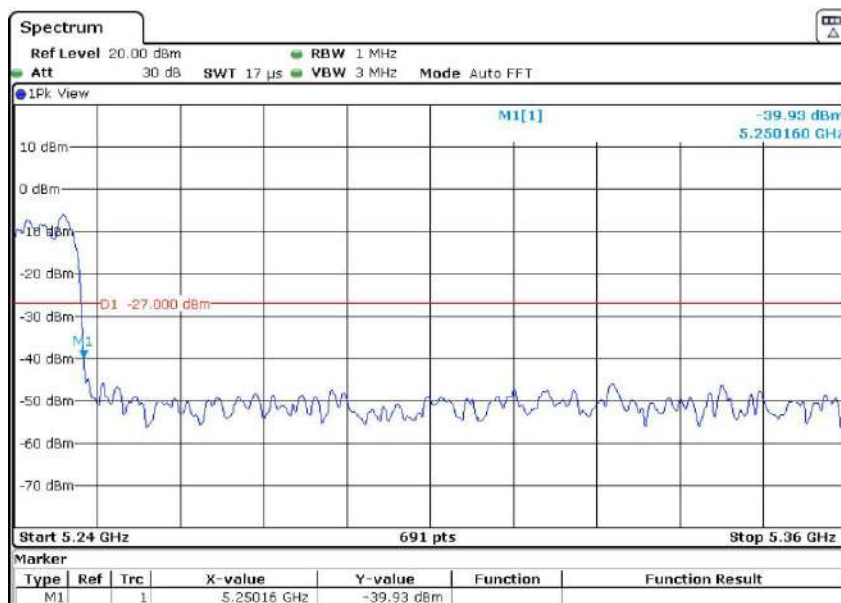


Report No.: AAEMT/EMC/221128-04-08

802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

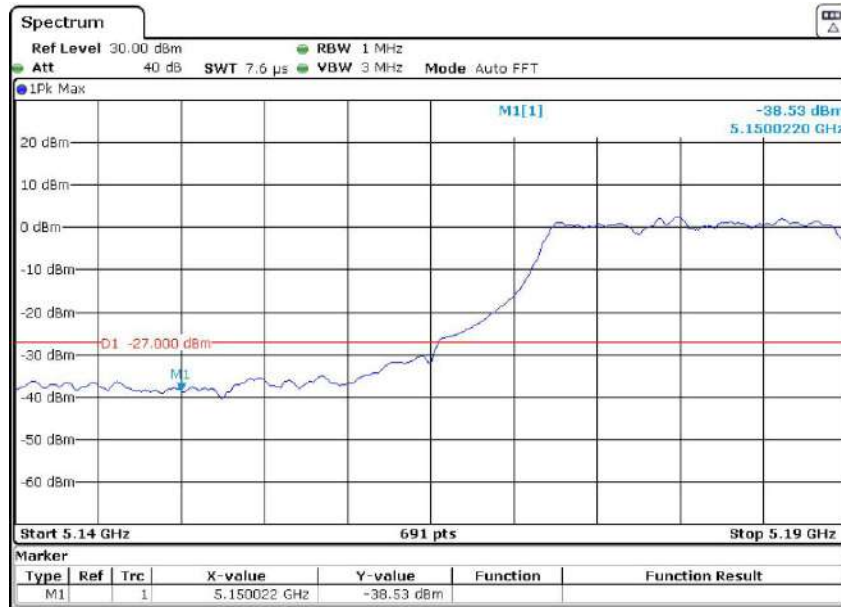


802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

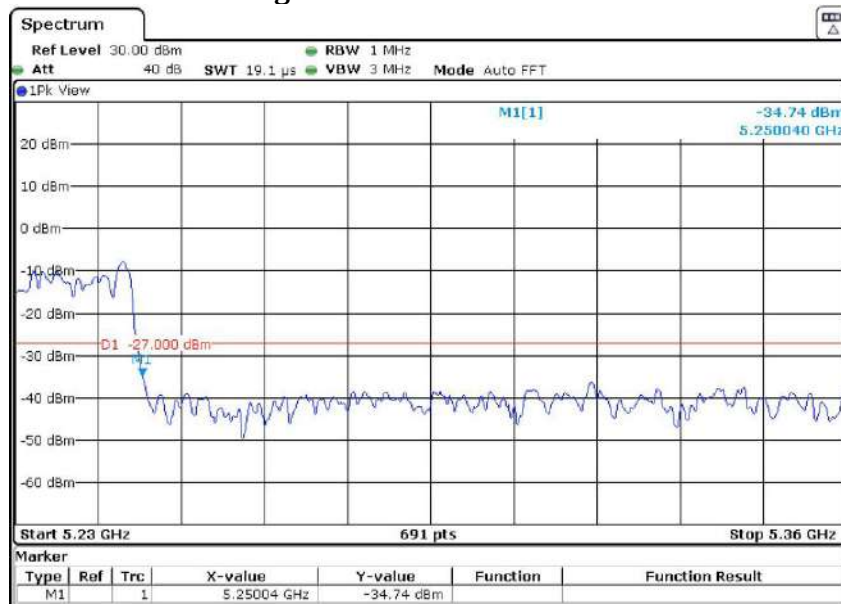


Report No.: AAEMT/EMC/221128-04-08

802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

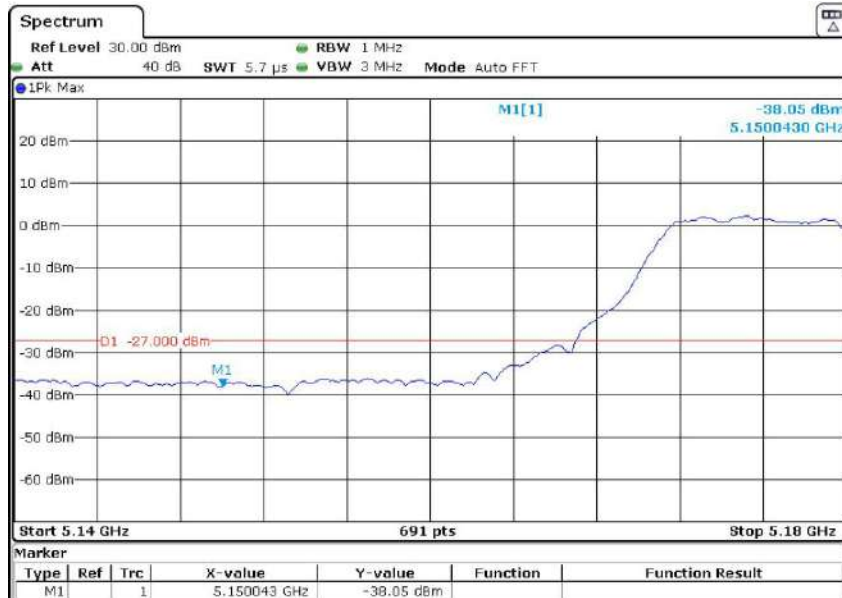


802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz

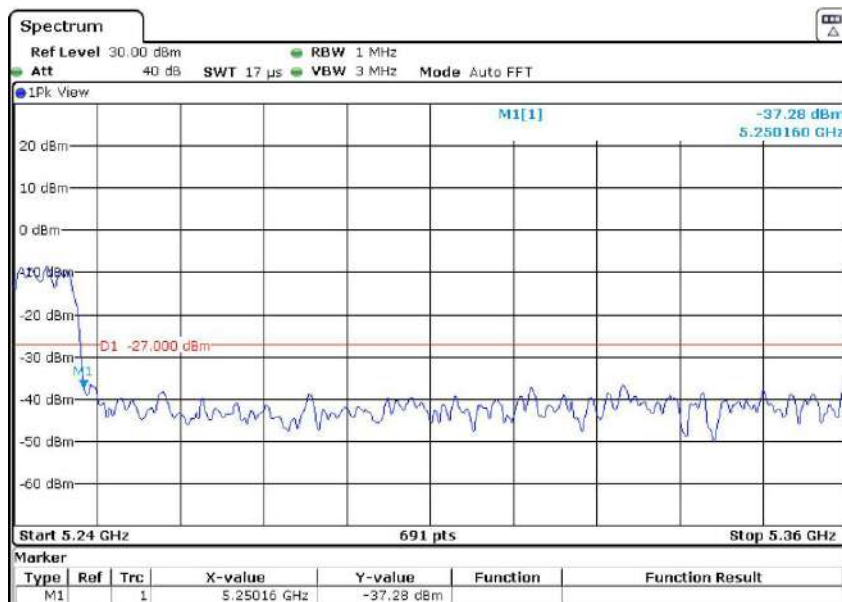


Report No.: AAEMT/EMC/221128-04-08

802.11ac(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

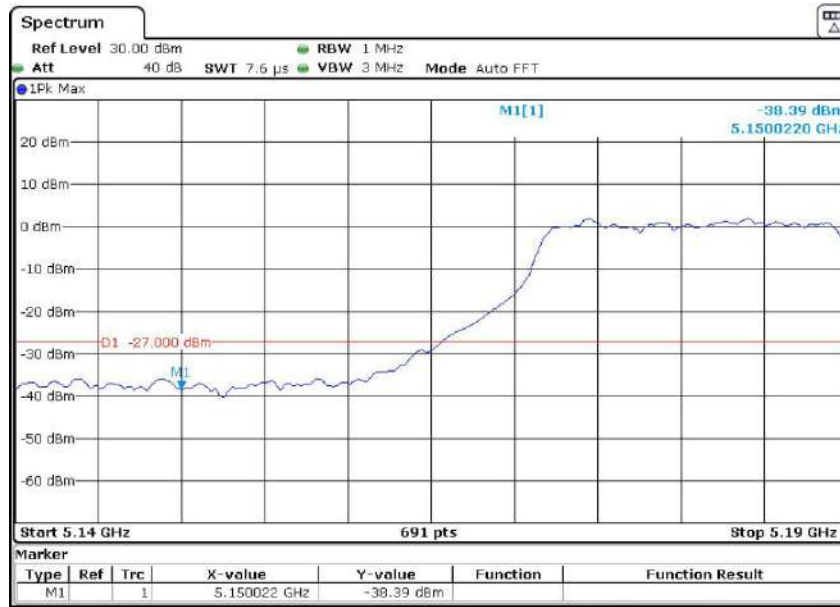


802.11ac(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

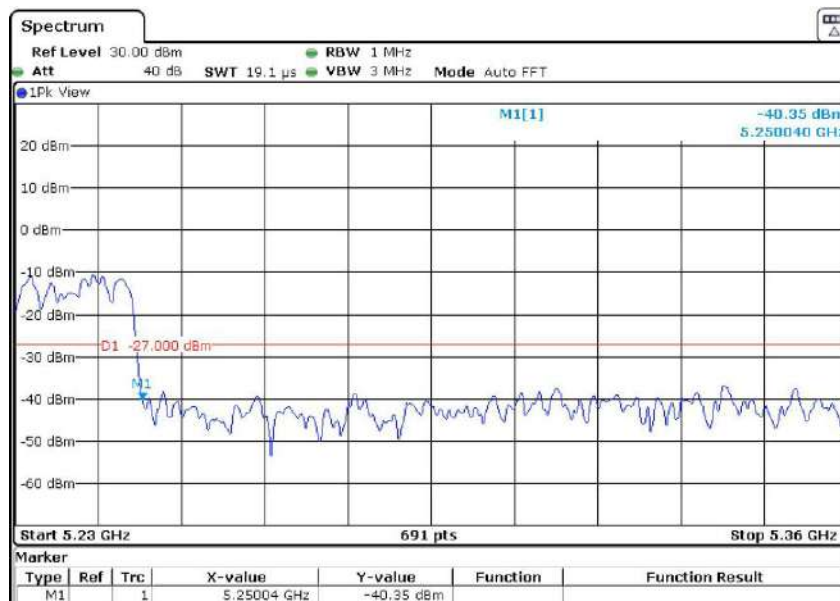


Report No.: AAEMT/EMC/221128-04-08

802.11ac(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

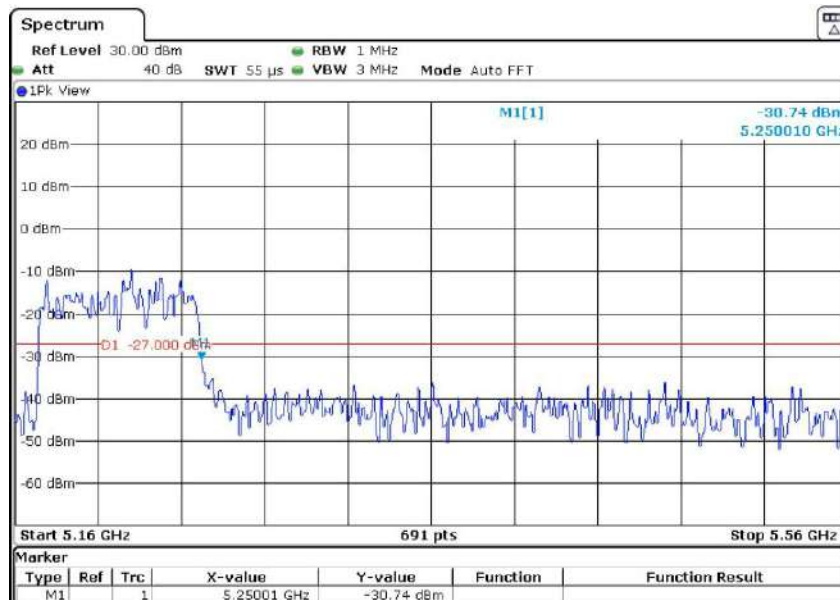
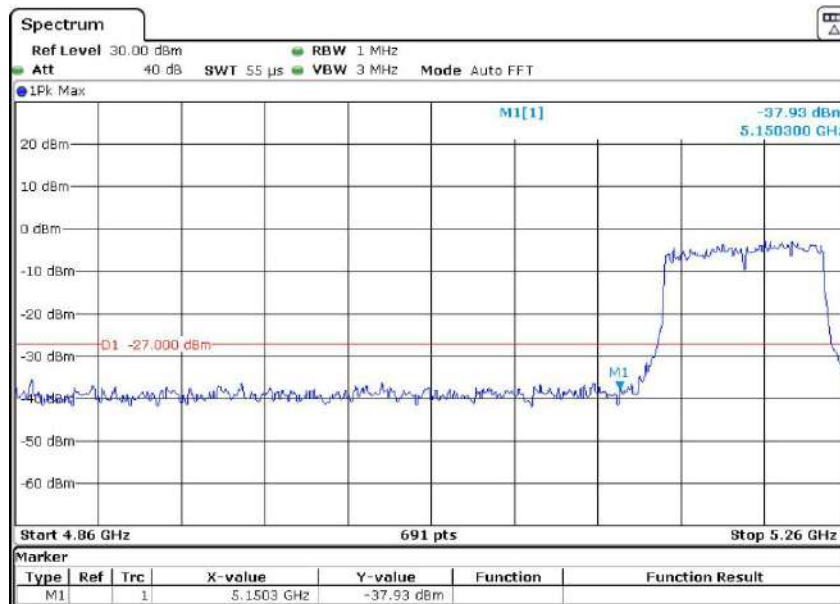


802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



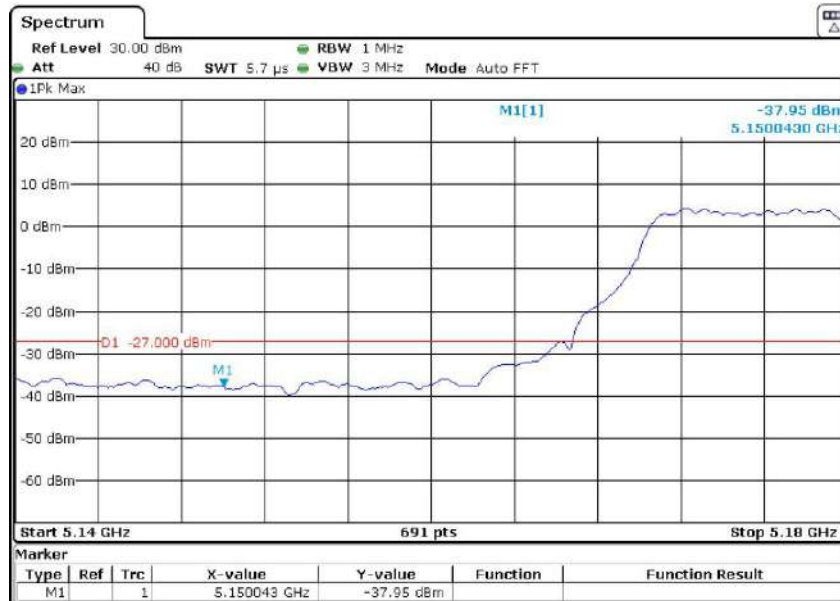
Report No.: AAEMT/EMC/221128-04-08

802.11ac(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz

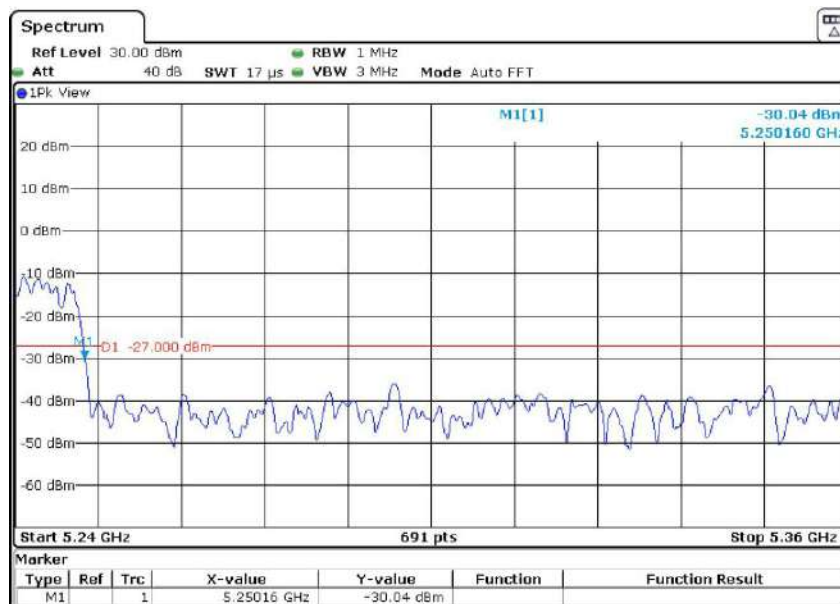


Report No.: AAEMT/EMC/221128-04-08

802.11ax(20M) (5.15GHz-5.25GHz) The Lowest Channel 36: 5180MHz

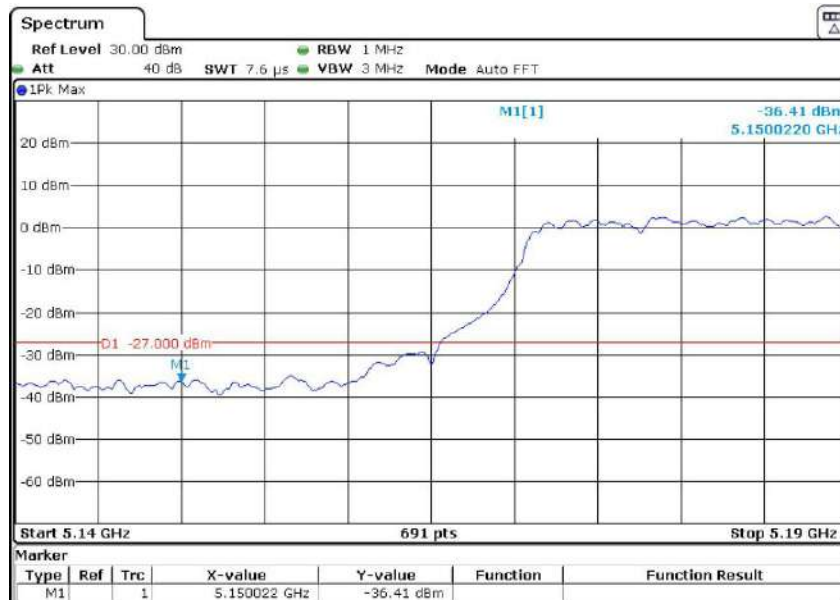


802.11ax(20M) (5.15GHz-5.25GHz) The High Channel 48: 5240MHz

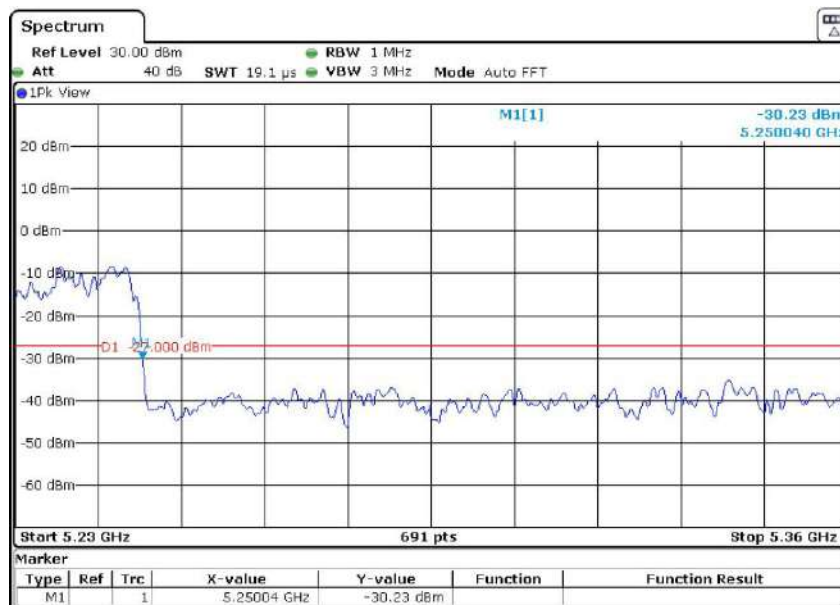


Report No.: AAEMT/EMC/221128-04-08

802.11ax(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

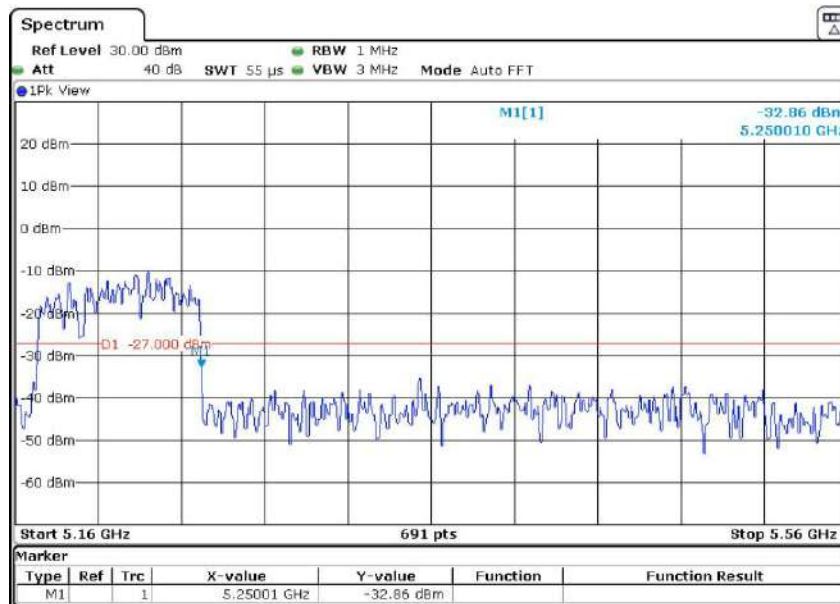
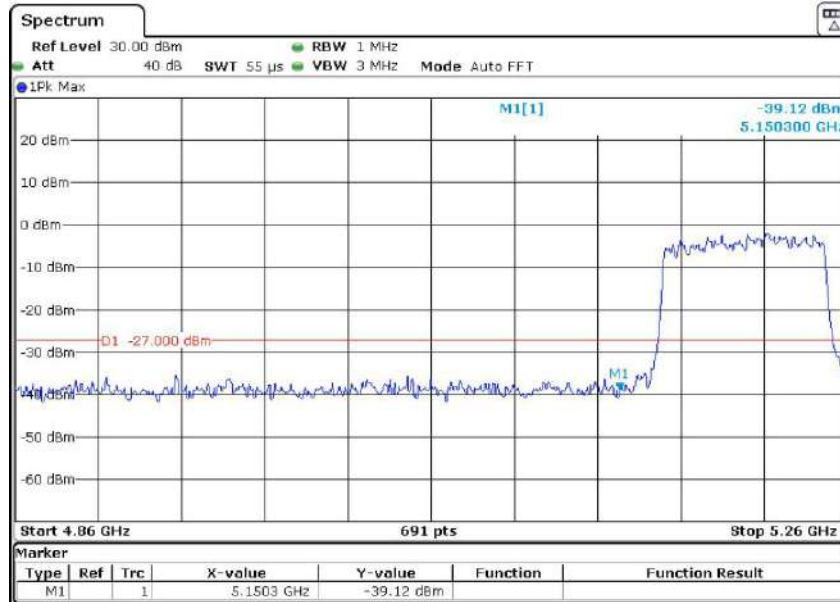


802.11ax(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



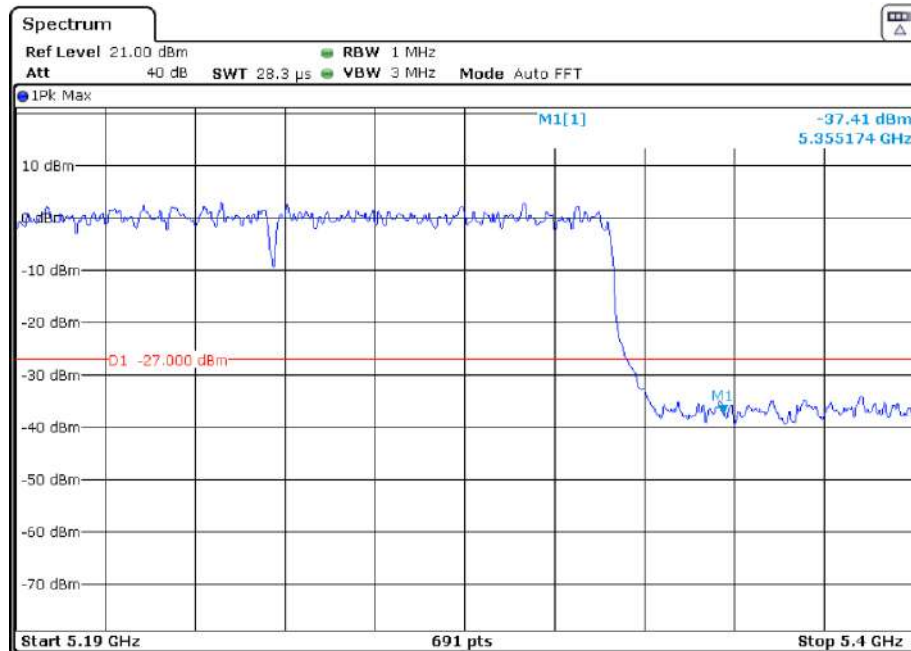
Report No.: AAEMT/EMC/221128-04-08

802.11ax(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz



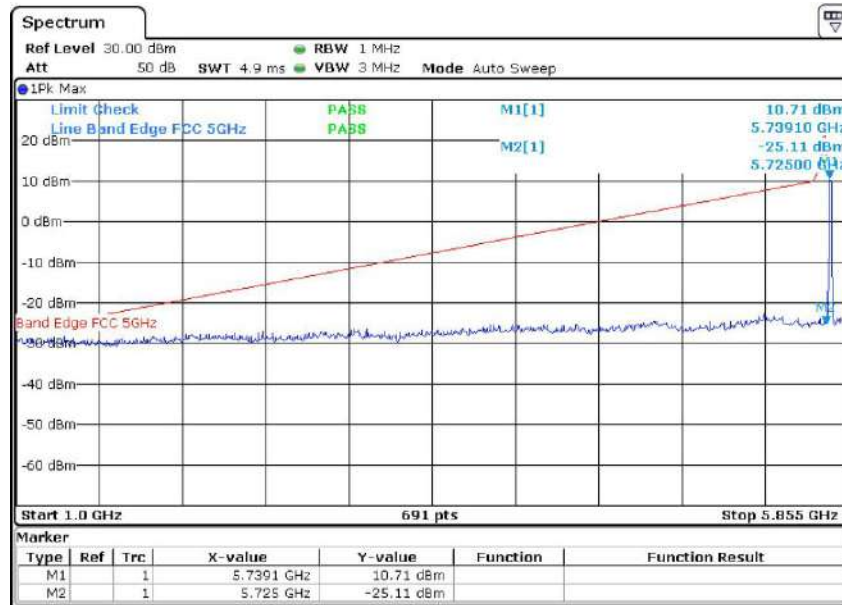
Report No.: AAEMT/EMC/221128-04-08

802.11ax(80M) (5.15GHz-5.25GHz)
The Lowest Channel 42: 5210MHz

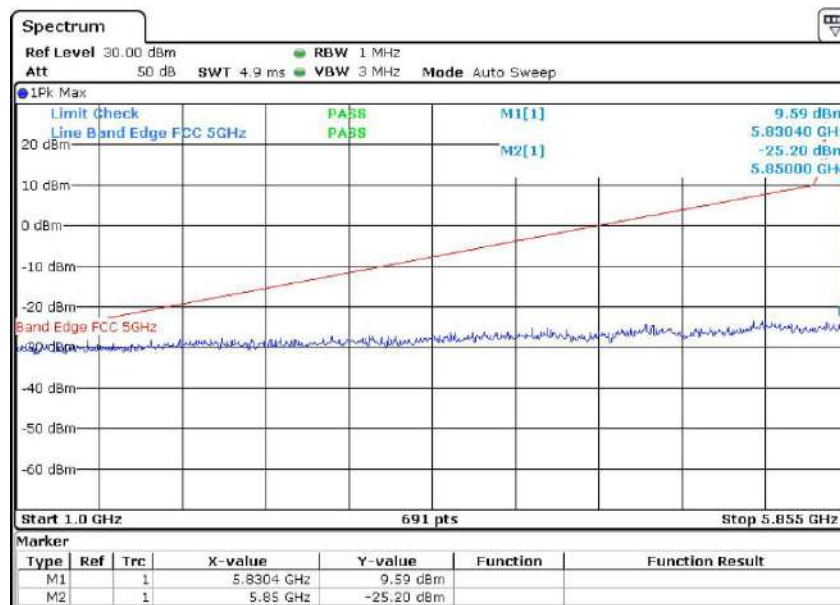


TEST RESULT ANT CHAIN 0

802.11a (5.725GHz-5.85GHz) The Low Channel 149: 5745MHz

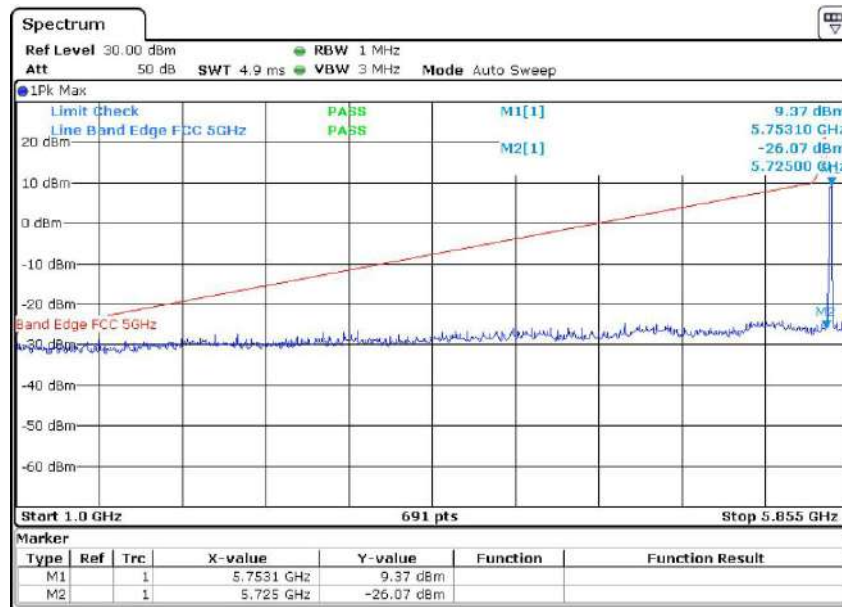


802.11a (5.725GHz-5.85GHz) The High Channel 165: 5825MHz

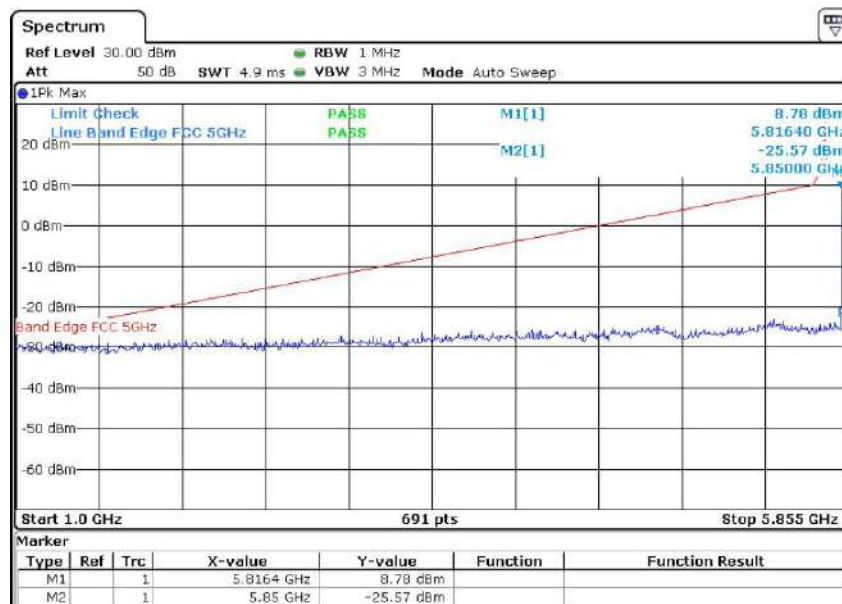


Report No.: AAEMT/EMC/221128-04-08

802.11n(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz

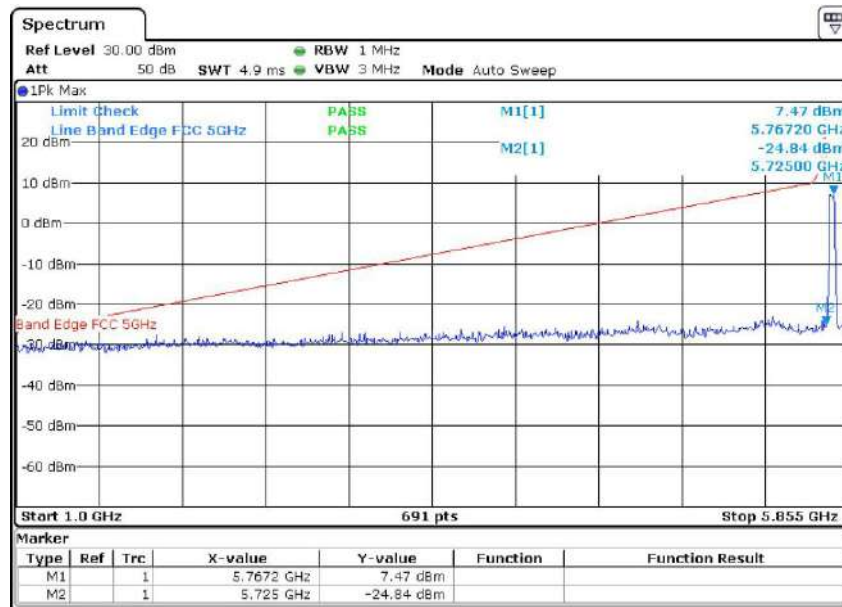


802.11n(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz

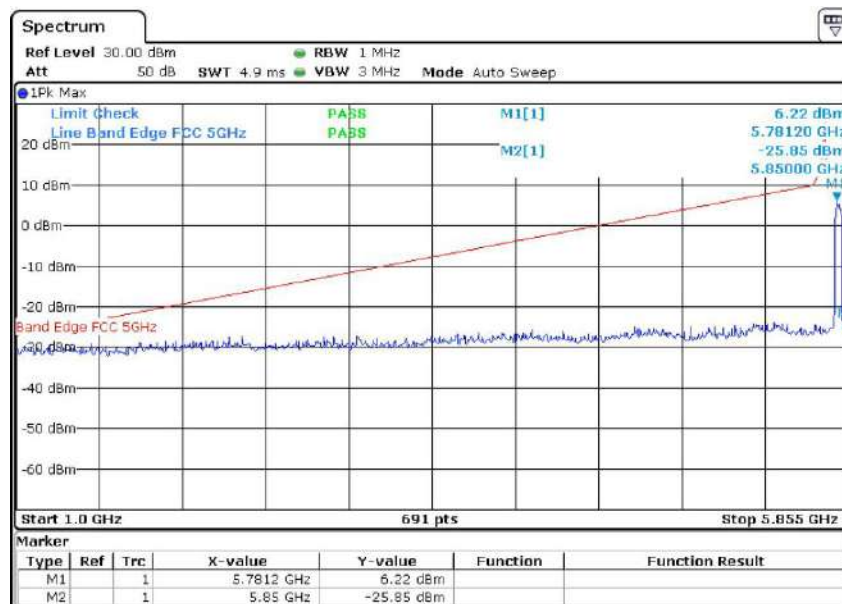


Report No.: AAEMT/EMC/221128-04-08

802.11n(40M) (5.725GHz-5.85GHz)
The Lowest Channel 151: 5755MHz

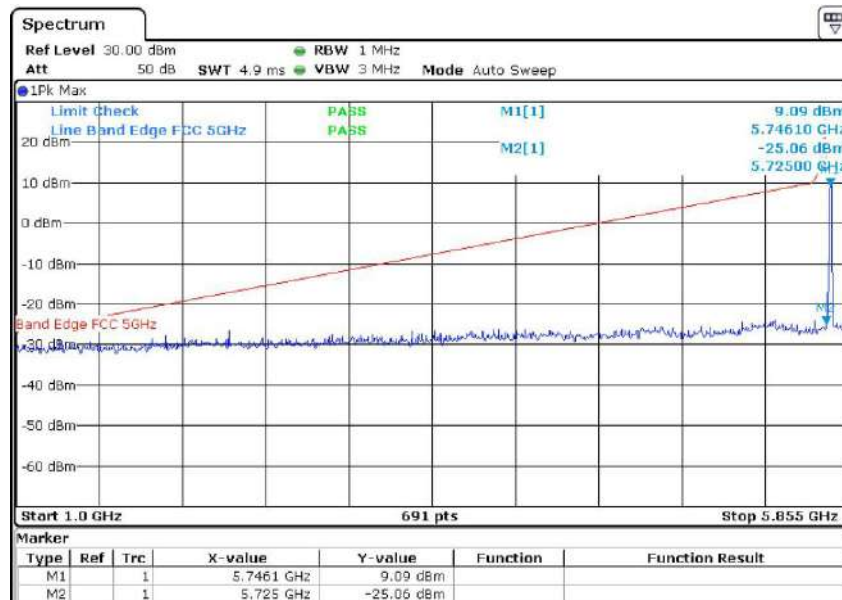


802.11n(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz

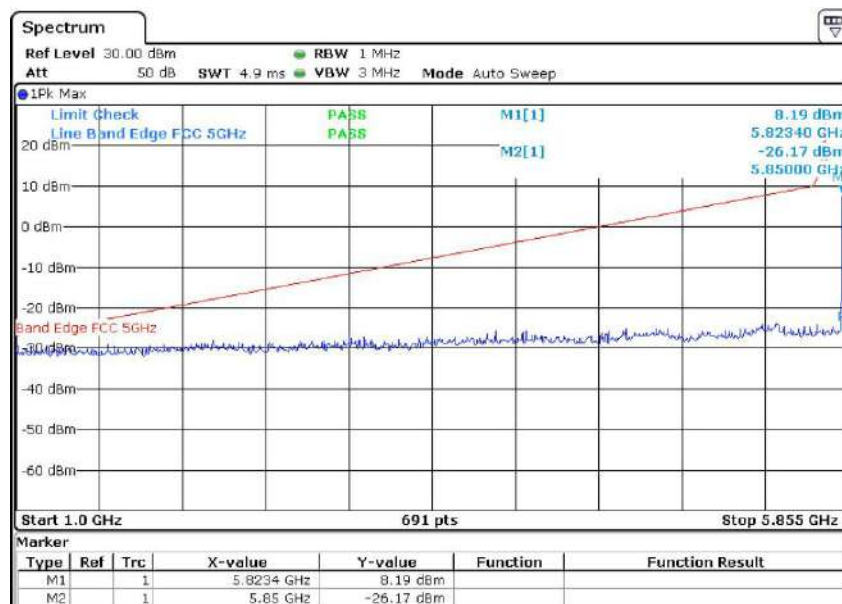


Report No.: AAEMT/EMC/221128-04-08

**802.11ac(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz**



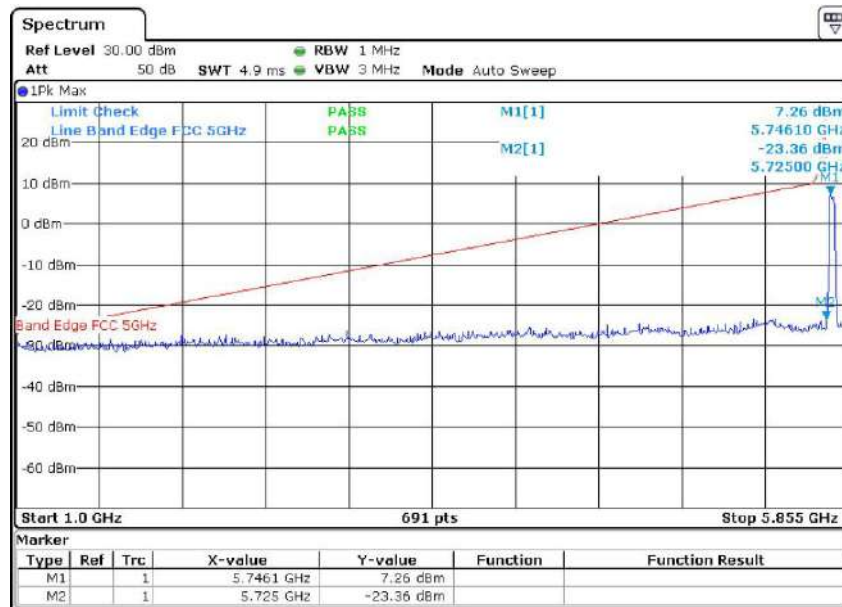
**802.11ac(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz**



Report No.: AAEMT/EMC/221128-04-08

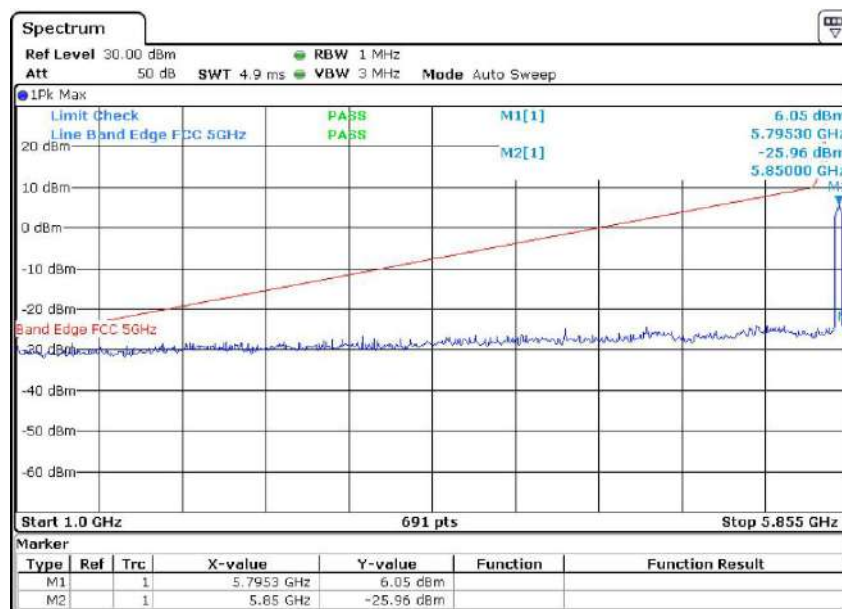
802.11ac(40M) (5.725GHz-5.85GHz)

The Lowest Channel 151: 5755MHz



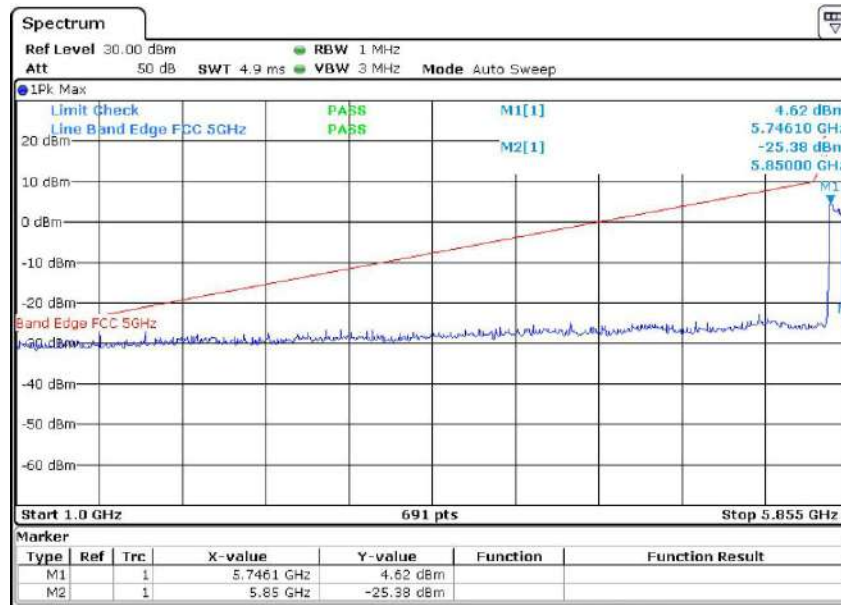
802.11ac(40M) (5.725GHz-5.85GHz)

The High Channel 159: 5795MHz



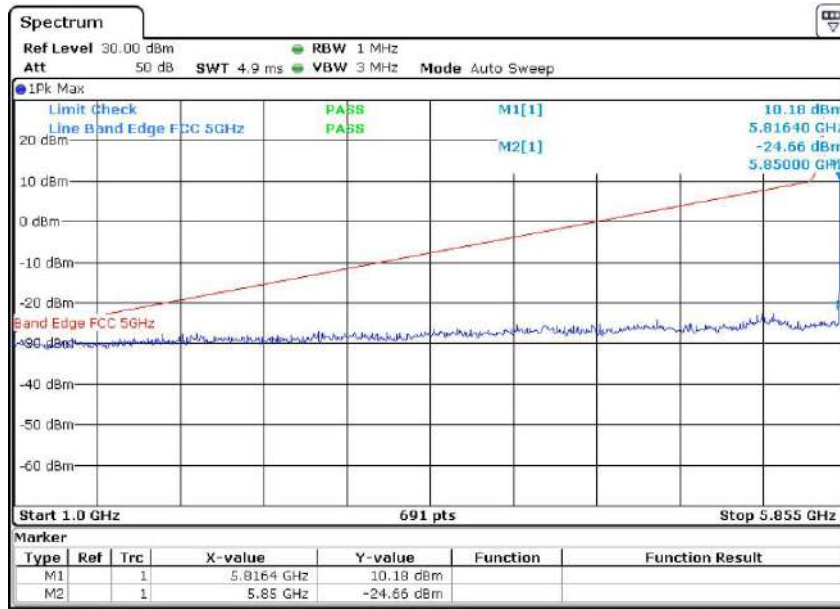
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802.11ac(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz



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**802.11ax(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz**



**802.11ax(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz**

