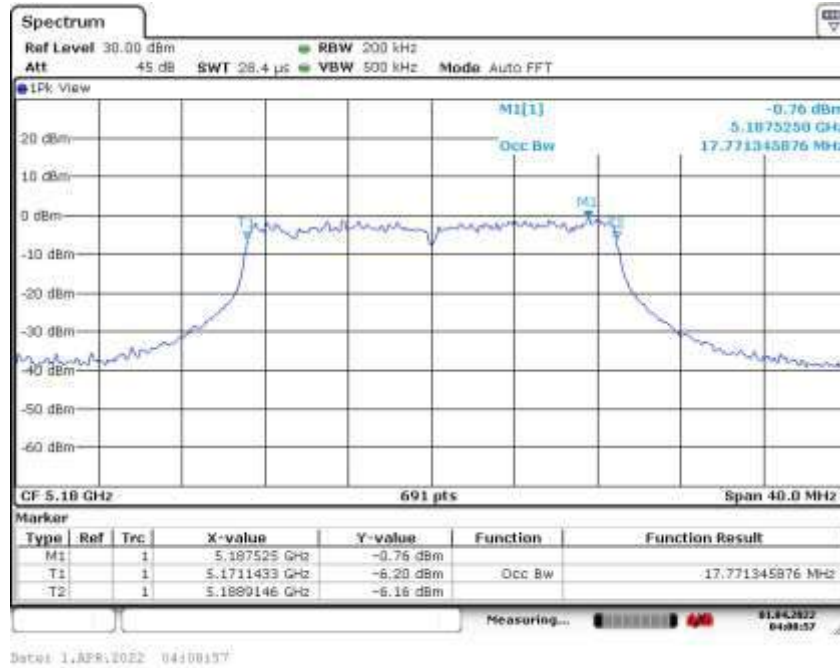


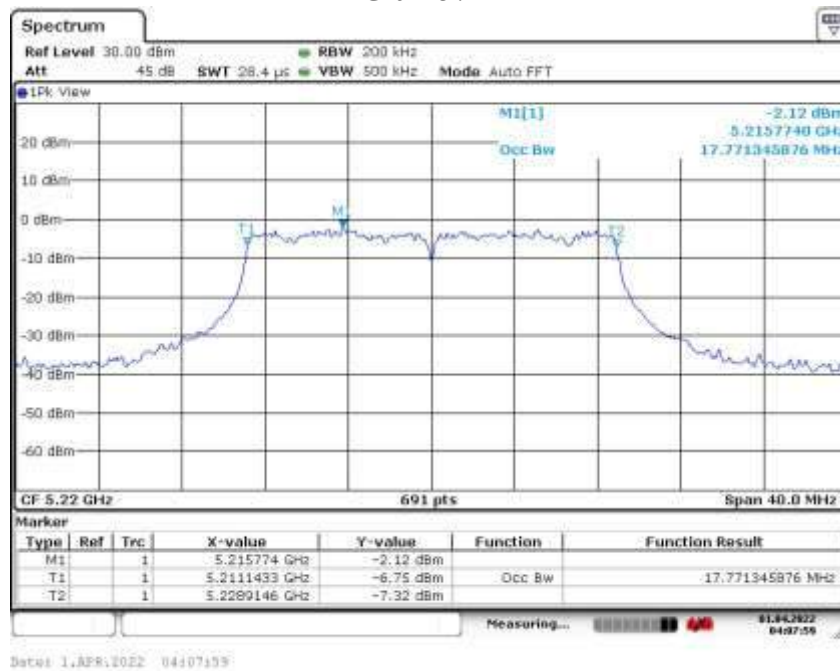
Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ac20

Channel: 36

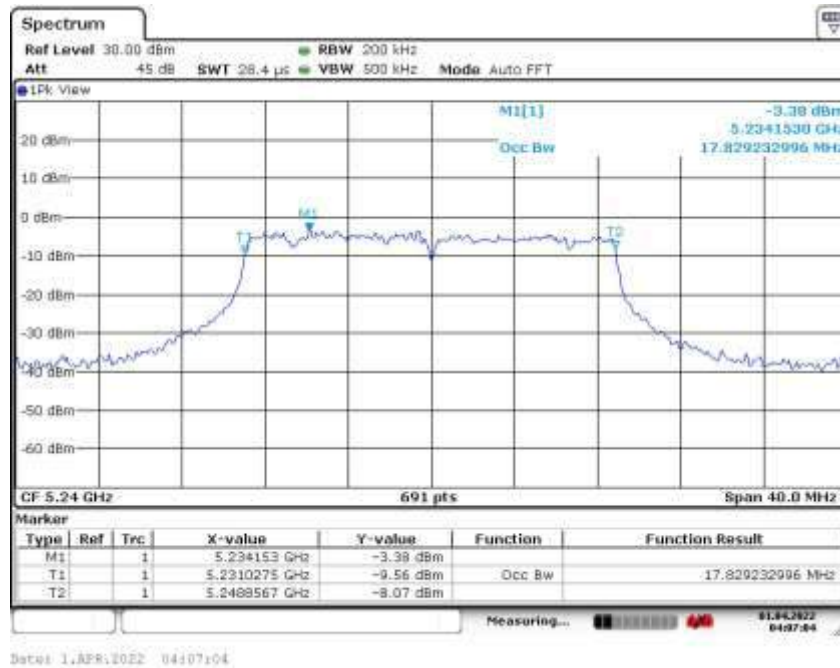


Channel: 44



Report No.: AAEMT/EMC/220321-01-06

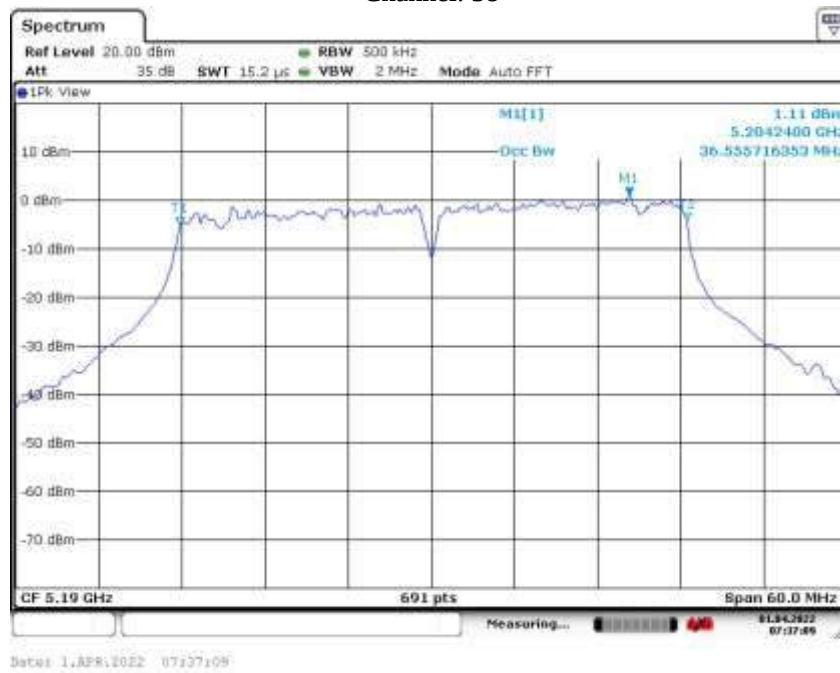
Channel: 48



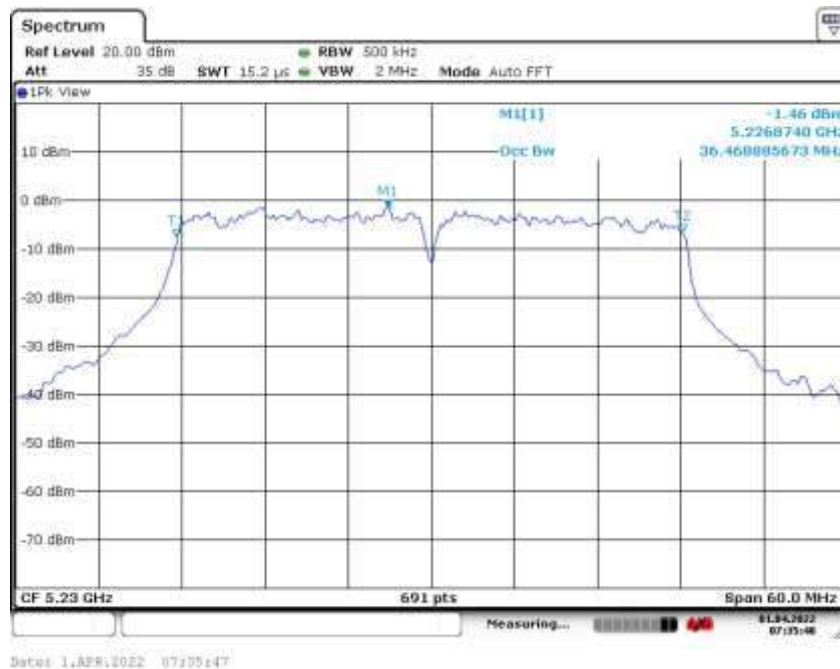
Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ac40

Channel: 38



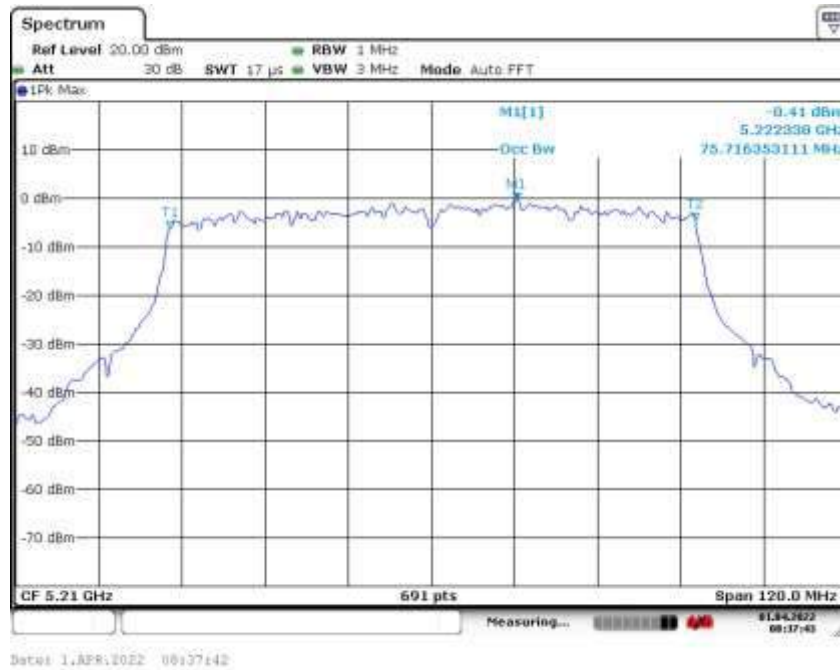
Channel: 46



Report No.: AAEMT/EMC/220321-01-06

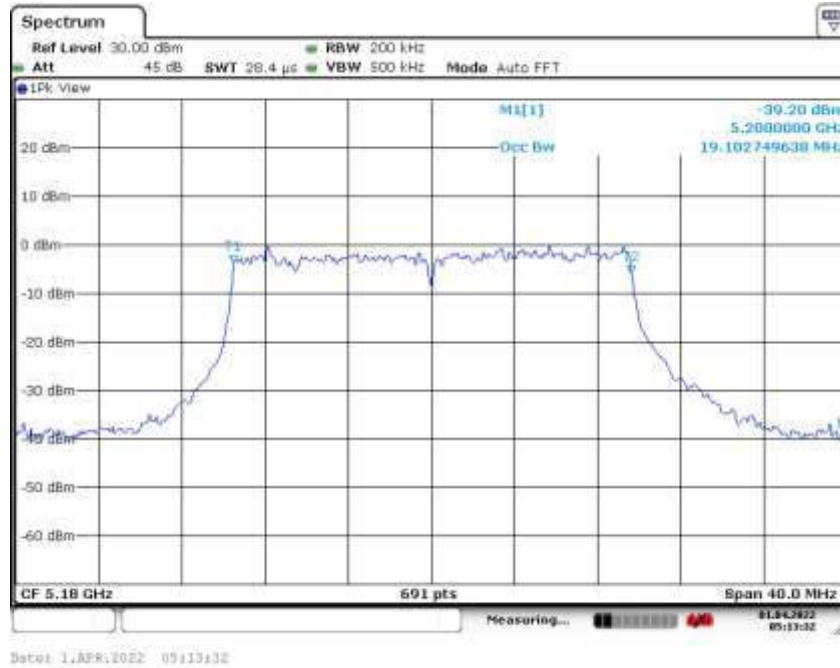
99% OBW 802.11ac80

Channel: 42

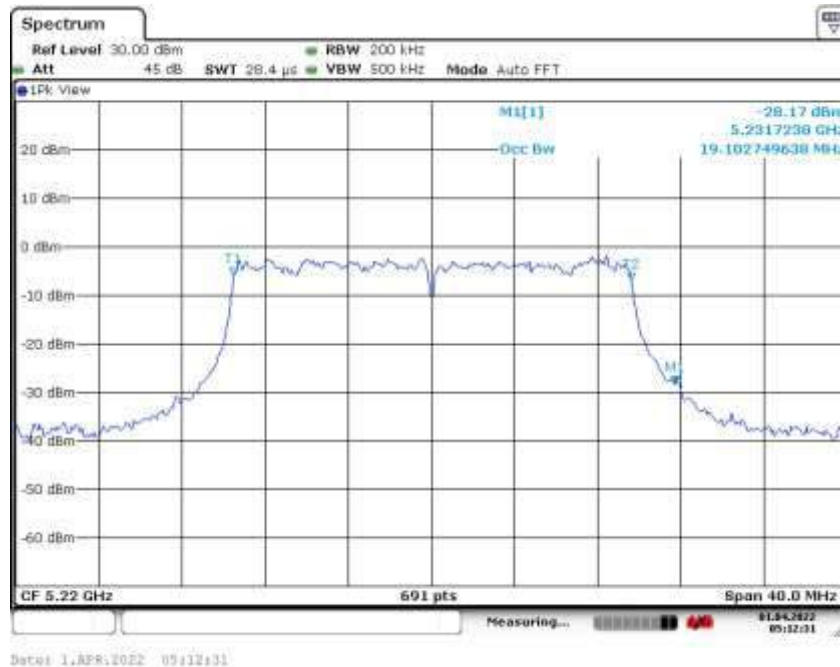


99% OBW 802.11ax20

Channel: 36

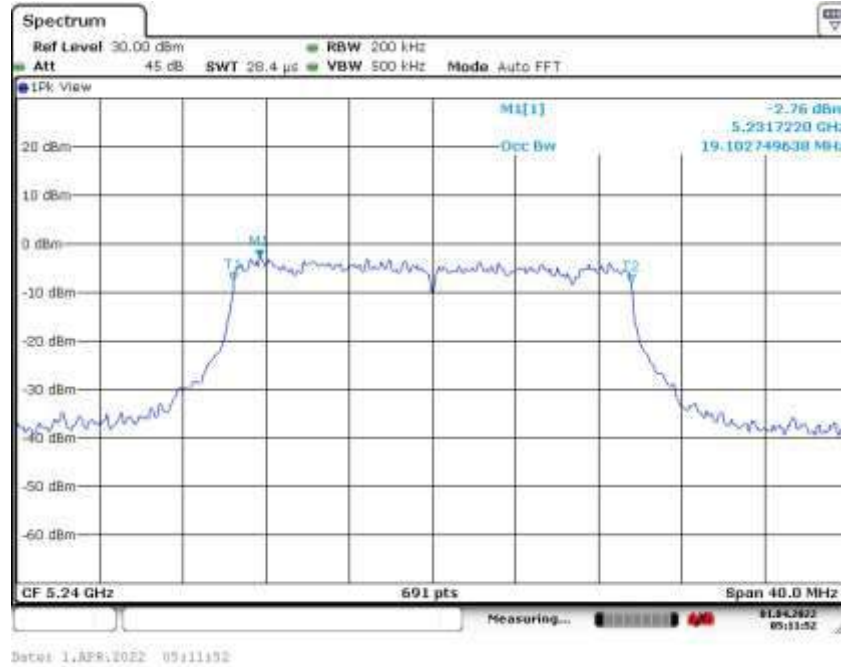


Channel: 44



Report No.: AAEMT/EMC/220321-01-06

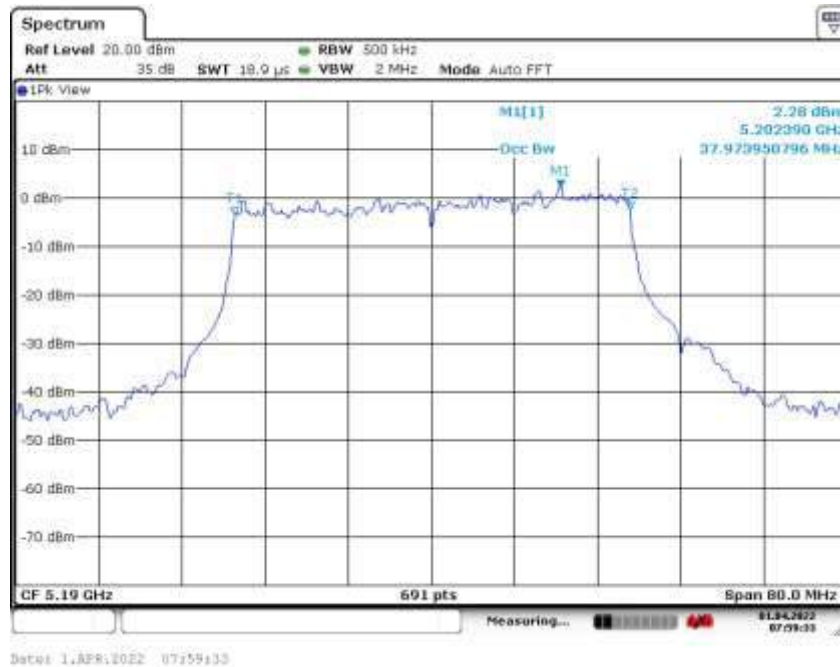
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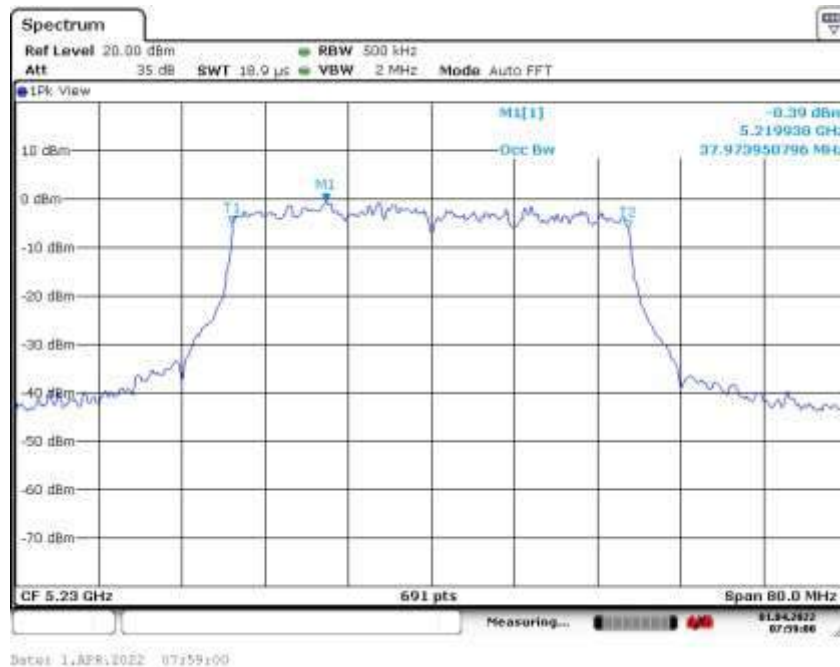
Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ax40

Channel: 38

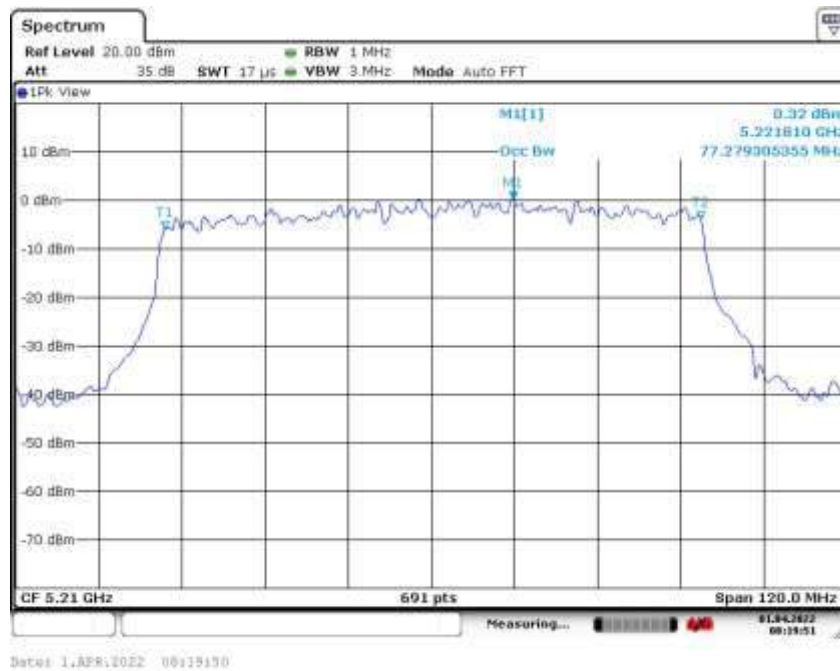


Channel: 46



Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ax80
Channel: 42

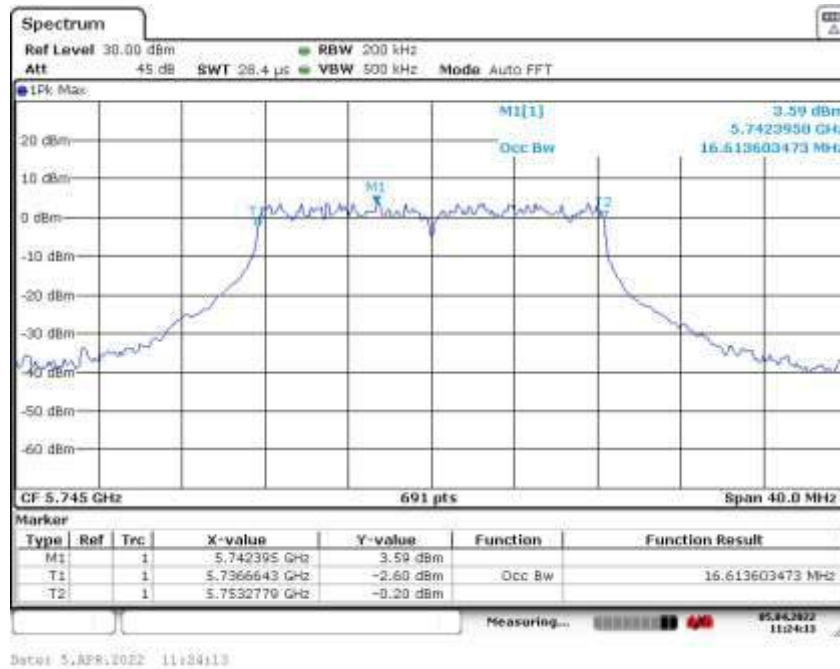


Report No.: AAEMT/EMC/220321-01-06

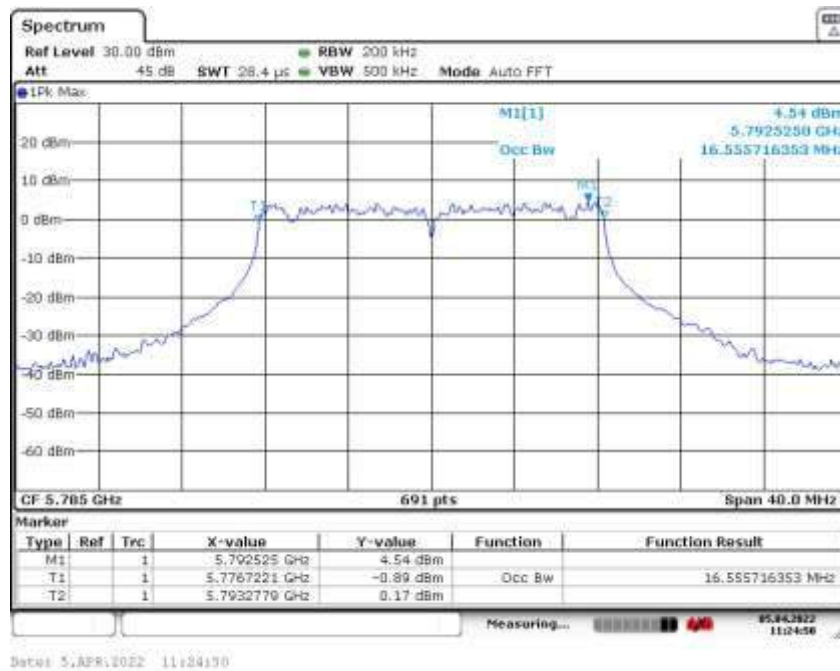
Test plots as followed: 5GM_3

99% OBW 802.11a

Channel: 149

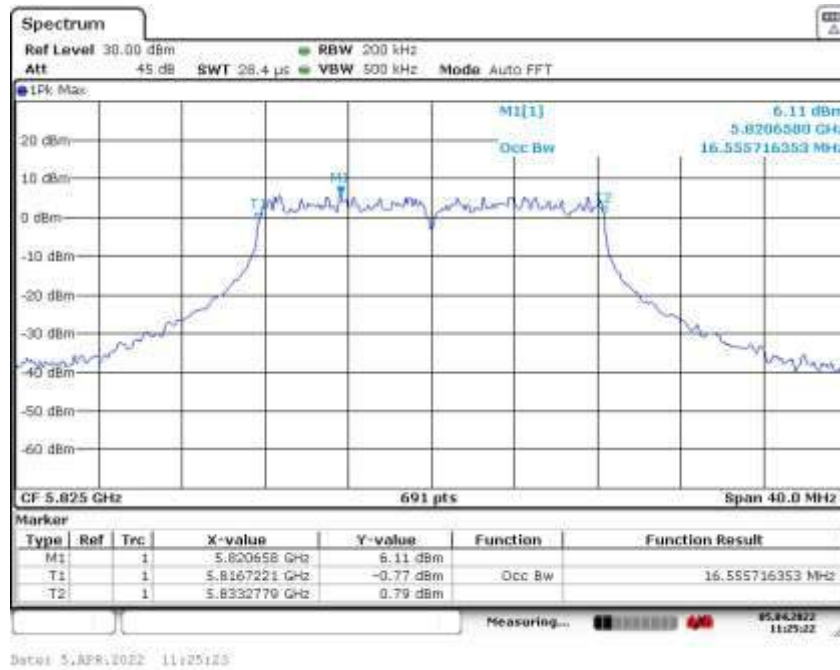


Channel: 157



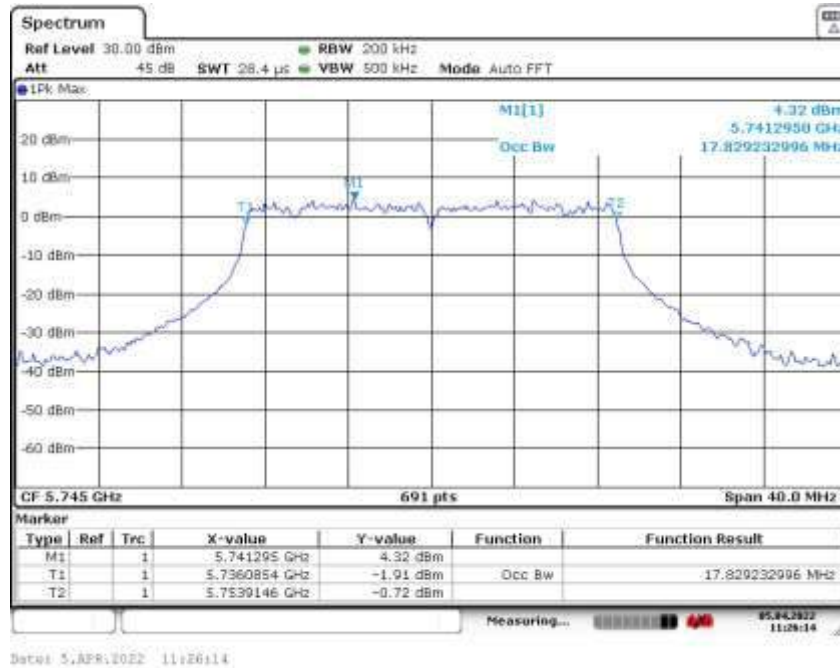
Report No.: AAEMT/EMC/220321-01-06

Channel: 165

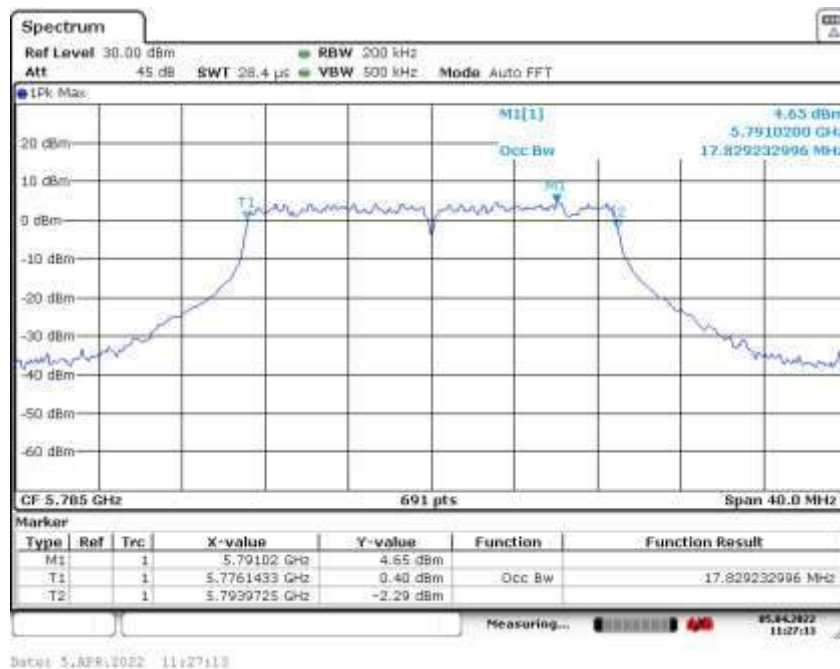


Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11n20
Channel: 149

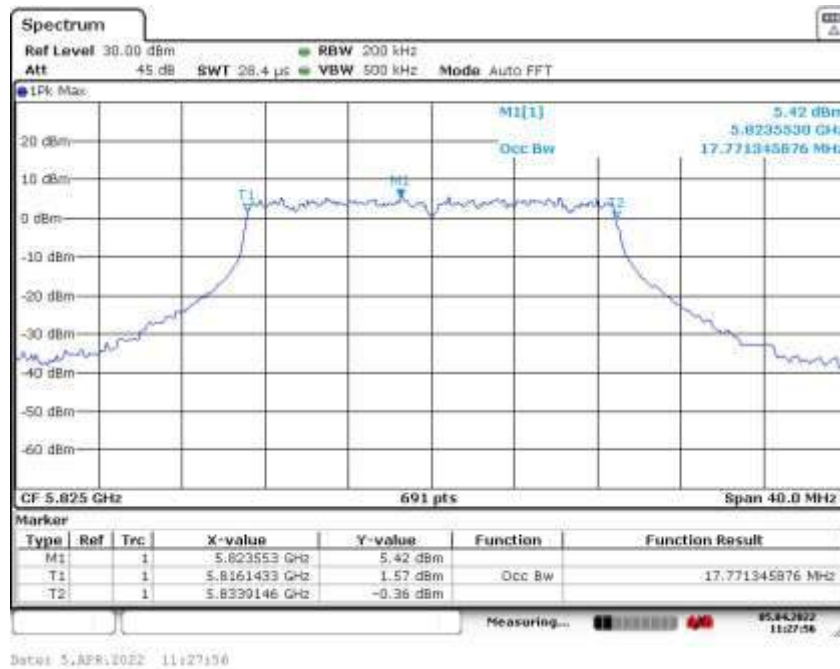


Channel: 157



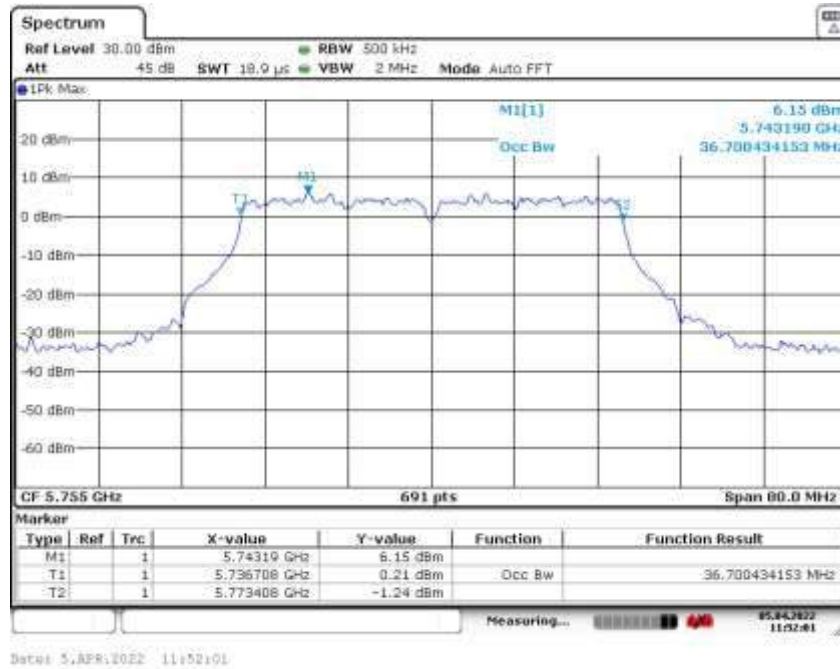
Report No.: AAEMT/EMC/220321-01-06

Channel: 165

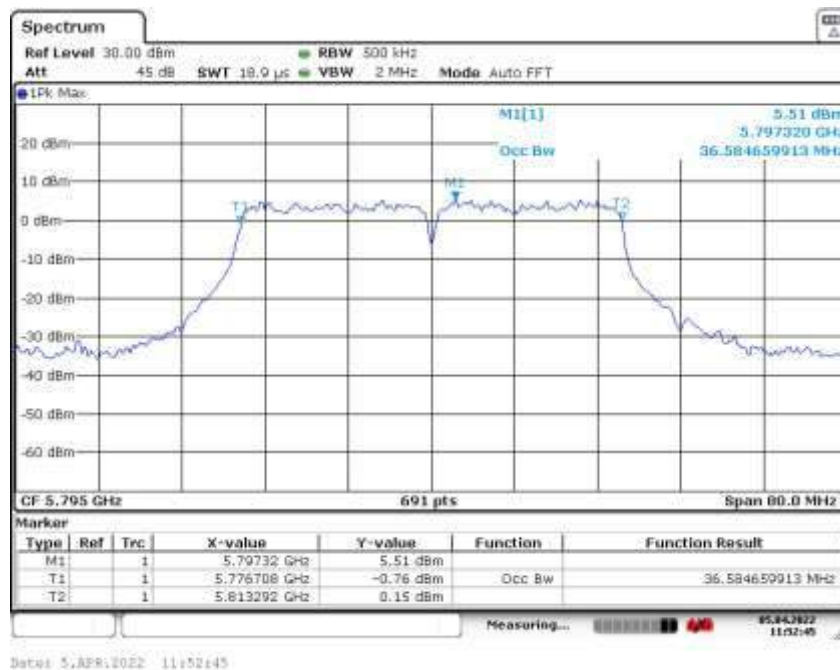


Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11n40
Channel: 151



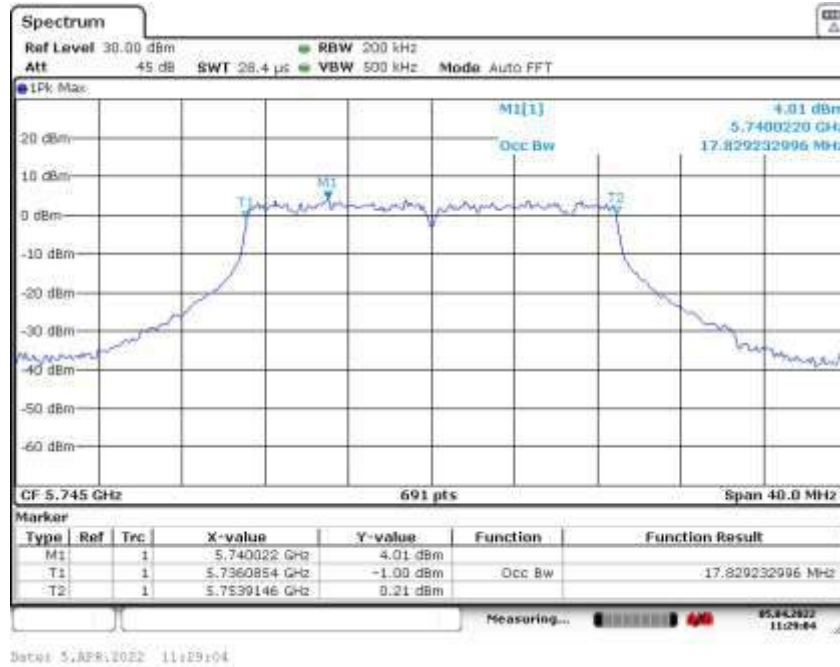
Channel: 159



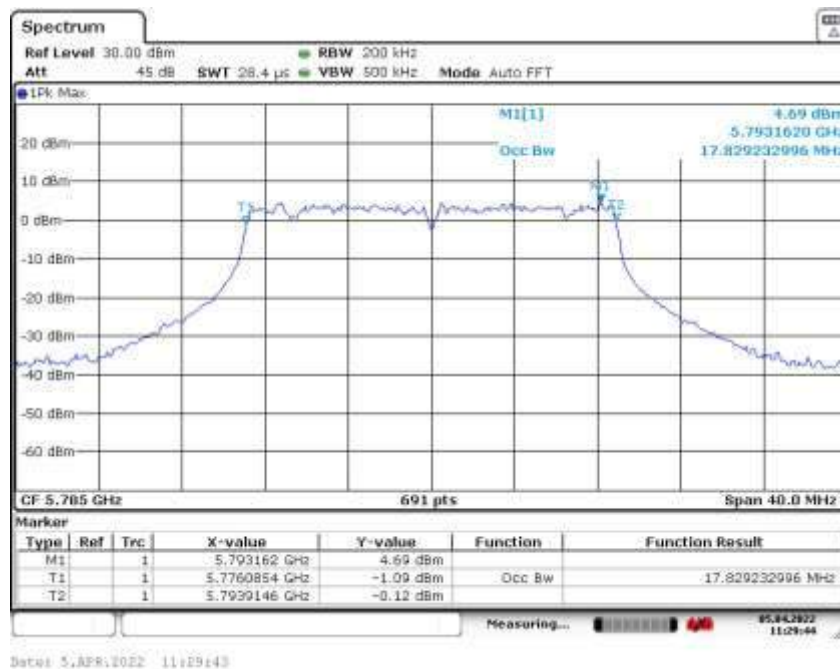
Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ac20

Channel: 149

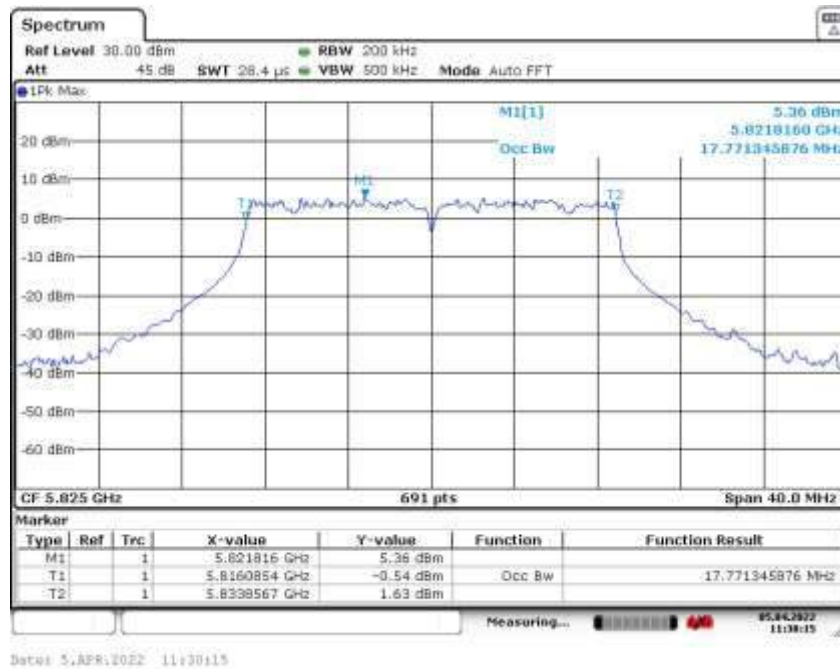


Channel: 157



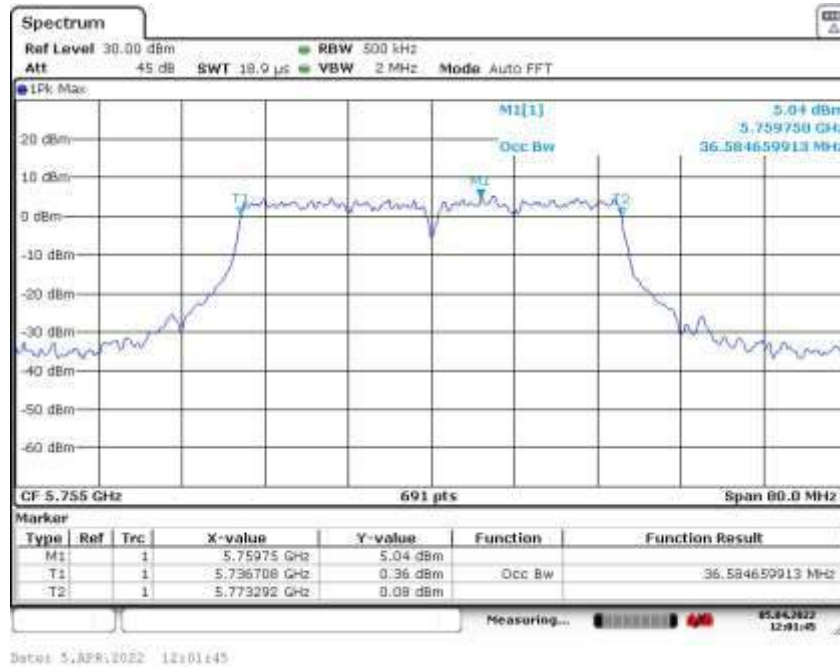
Report No.: AAEMT/EMC/220321-01-06

Channel: 165

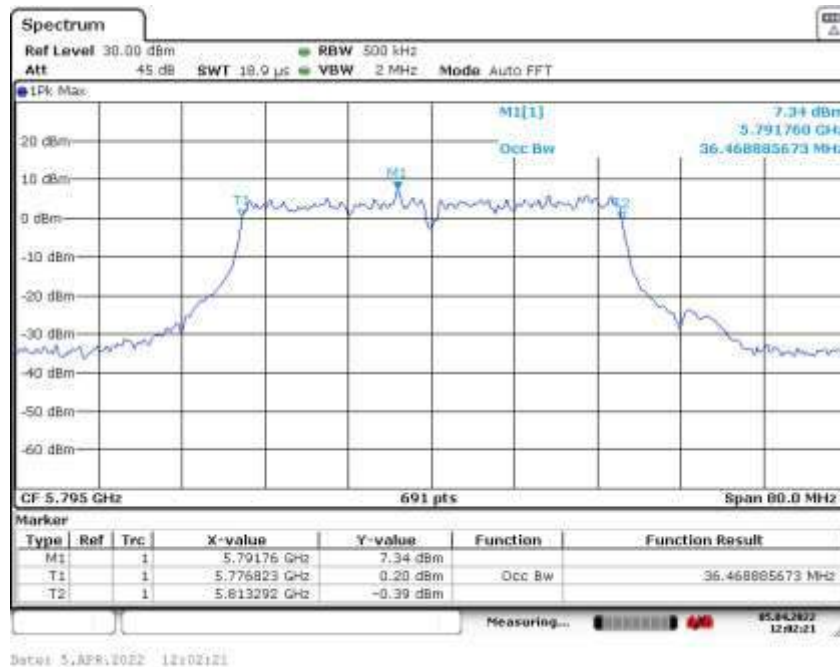


Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ac40
Channel: 151



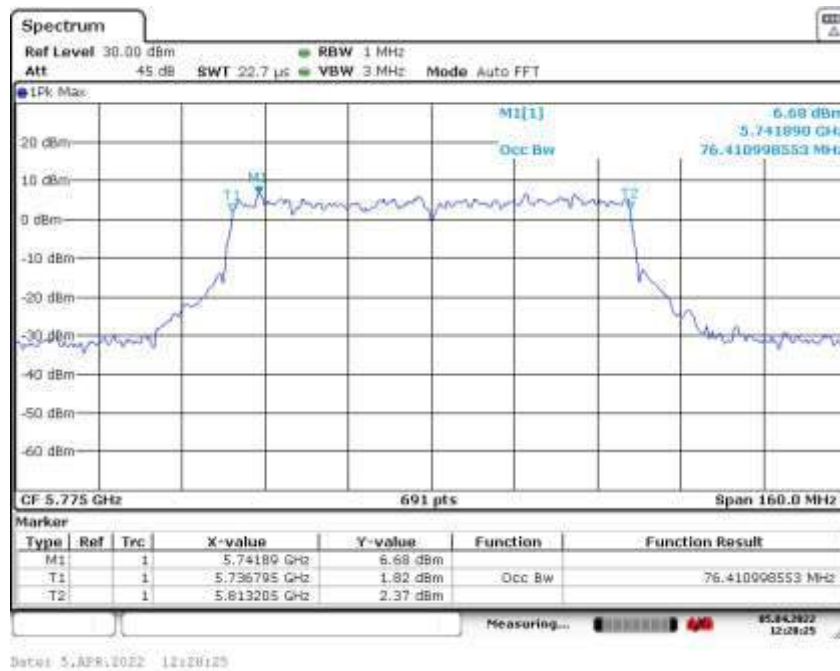
Channel: 159



Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ac80

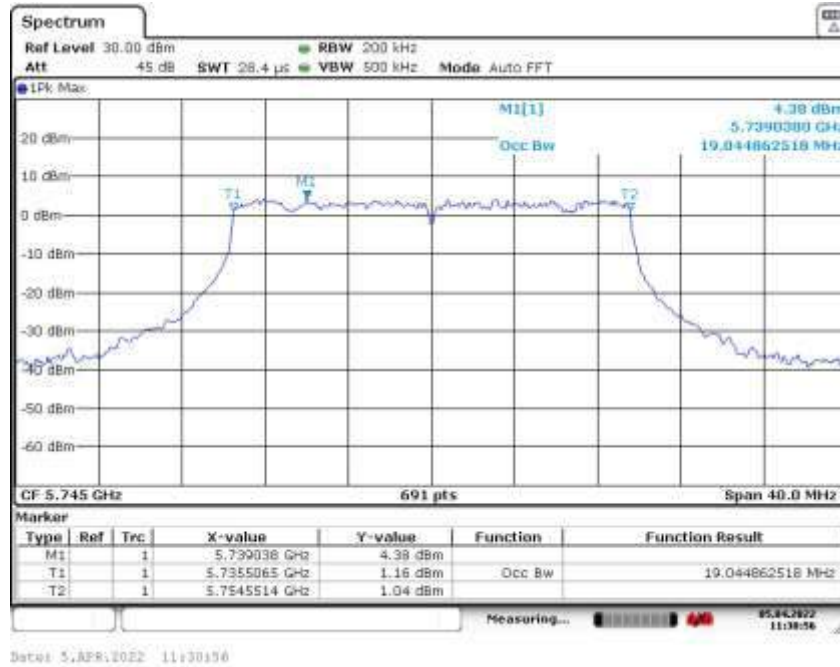
Channel: 155



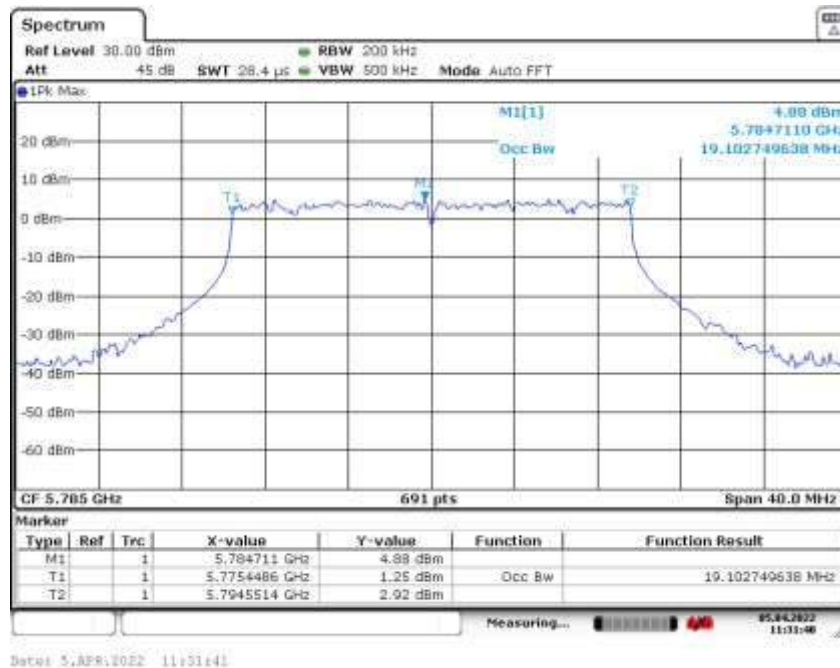
Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ax20

Channel: 149

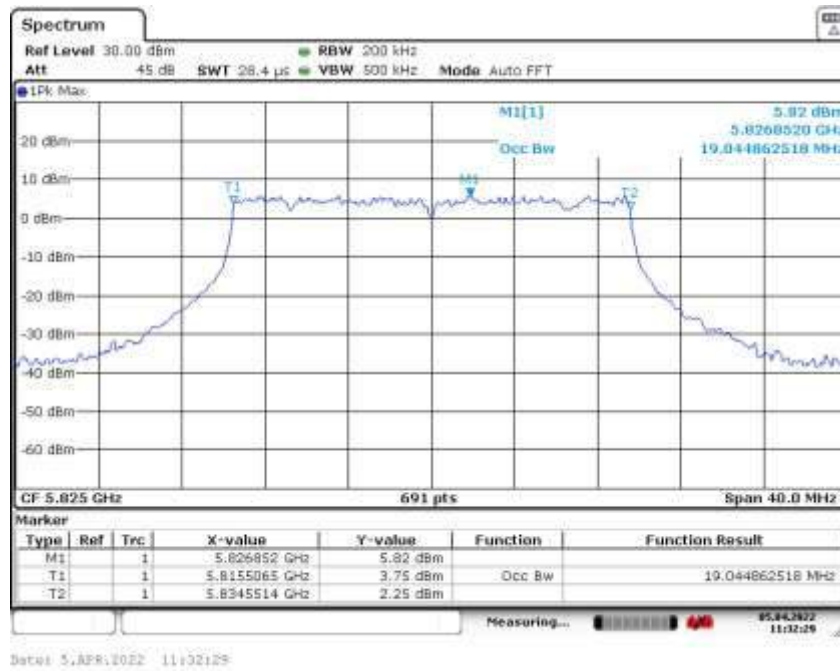


Channel: 157



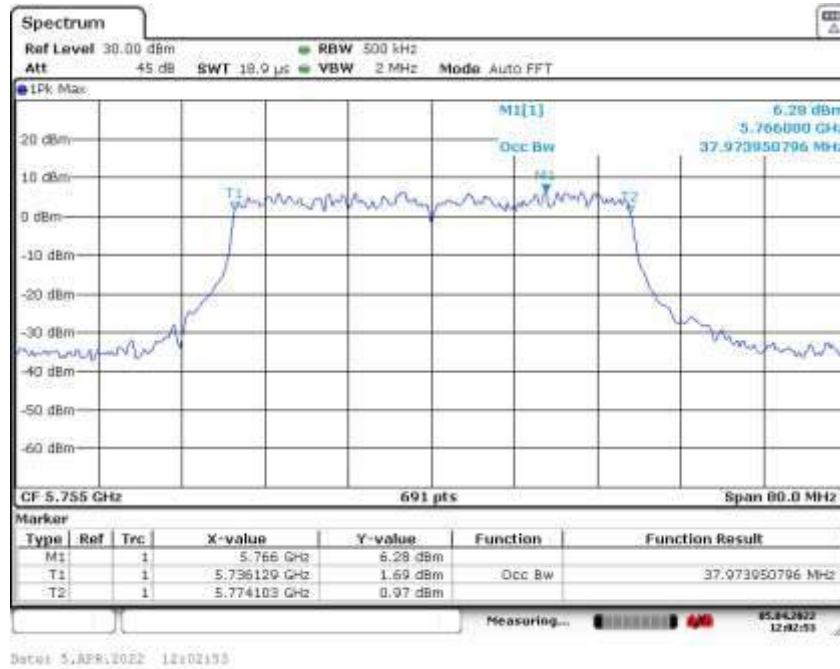
Report No.: AAEMT/EMC/220321-01-06

Channel: 165

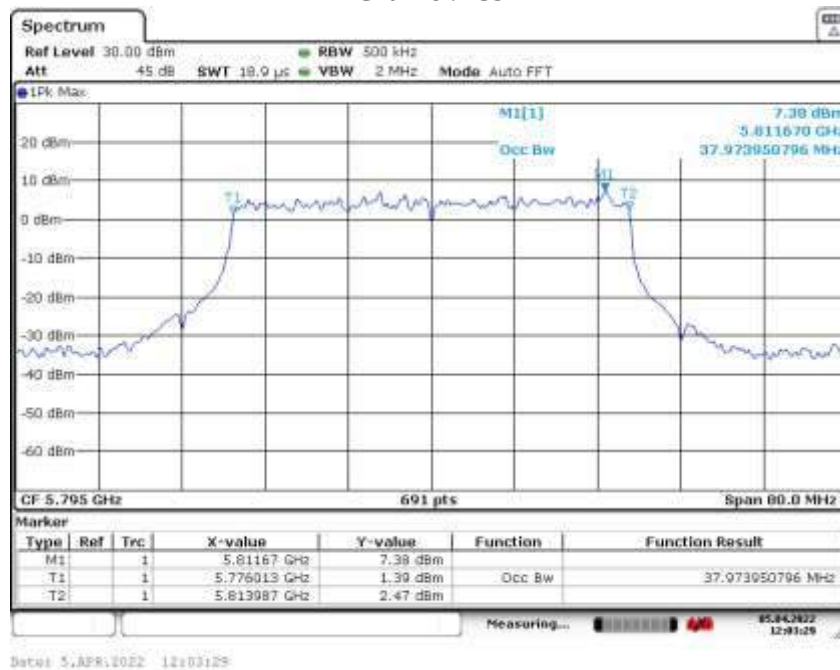


Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ax40
Channel: 151

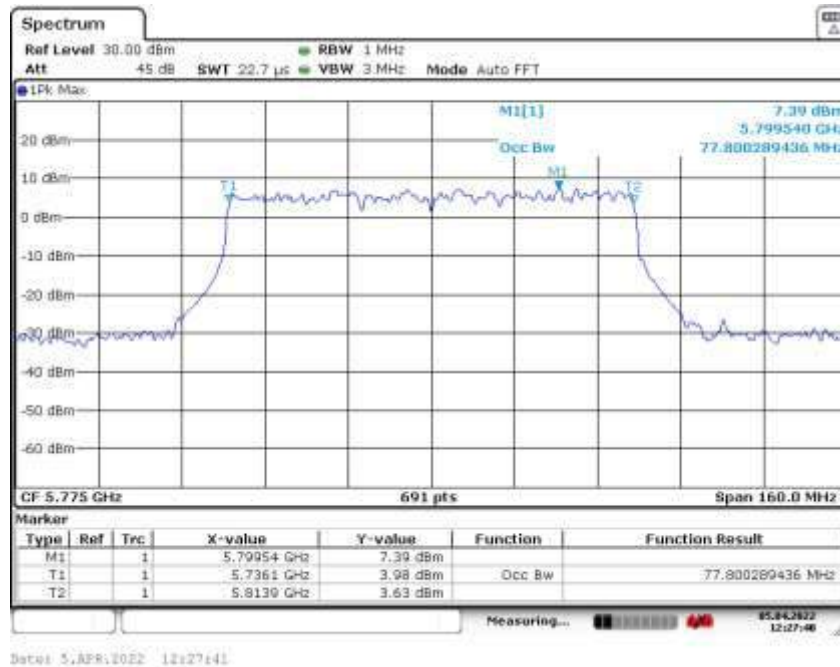


Channel: 159

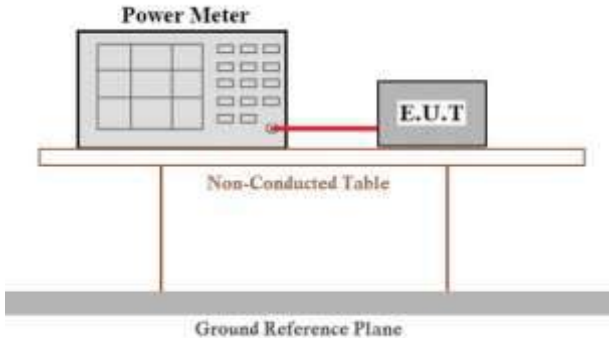


Report No.: AAEMT/EMC/220321-01-06

99% OBW 802.11ax80
Channel: 155



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 ANT 5GS_0 AND 5GM_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

TEST RESULT ANT 5GS_1 AND 5GM_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

TEST RESULT ANT 5GS_2 AND 5GM_2

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	18.35	18.74	19.26	17.58	23.98	Pass
44	5220.00	16.82	17.48	17.70	14.24	23.98	Pass
48	5240.00	15.64	16.19	16.50	12.22	23.98	Pass
149	5745.00	23.76	21.59	22.66	23.88	30	Pass
157	5785.00	21.37	20.61	20.52	21.79	30	Pass
165	5825.00	20.49	20.22	21.66	20.36	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	17.02	16.75	18.10	23.98	Pass
46	5230.00	12.82	12.76	14.18	23.98	Pass
151	5755.00	22.30	21.79	22.54	30	Pass
159	5795.00	20.11	20.22	21.49	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	11.49	21.59	23.98	Pass
155	5775.00	20.66	21.47	30	Pass

TEST RESULT ANT 5GS_3 AND 5GM_3

CH. No.	Frequency (MHz)	Output Power (dBm)				Limit(dBm)	Result
		802.11a	802.11n (HT20)	802.11ac (VHT20)	802.11ax (HE20)		
36	5180.00	18.31	17.59	17.38	18.70	23.98	Pass
44	5220.00	16.10	15.90	16.37	17.25	23.98	Pass
48	5240.00	14.10	14.69	15.56	16.68	23.98	Pass
149	5745.00	21.05	20.61	21.67	22.88	30	Pass
157	5785.00	20.33	20.11	20.59	21.70	30	Pass
165	5825.00	21.99	19.40	21.02	20.39	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)			Limit(dBm)	Result
		802.11n (HT40)	802.11ac (VHT40)	802.11ax (HE40)		
38	5190.00	17.30	17.30	19.04	23.98	Pass
46	5230.00	15.53	15.88	16.88	23.98	Pass
151	5755.00	21.36	21.04	22.03	30	Pass
159	5795.00	20.77	21.11	20.08	30	Pass

CH. No.	Frequency (MHz)	Output Power (dBm)		Limit(dBm)	Result
		802.11ac(VHT80)	802.11ax(HE80)		
42	5210.00	16.11	17.32	23.98	Pass
155	5775.00	21.54	20.33	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:	 <pre> graph LR EUT[EUT] --- SA[SPECTRUM ANALYZER] </pre>
Test results:	Pass

7.1. TEST RESULT ANT 5GS_0

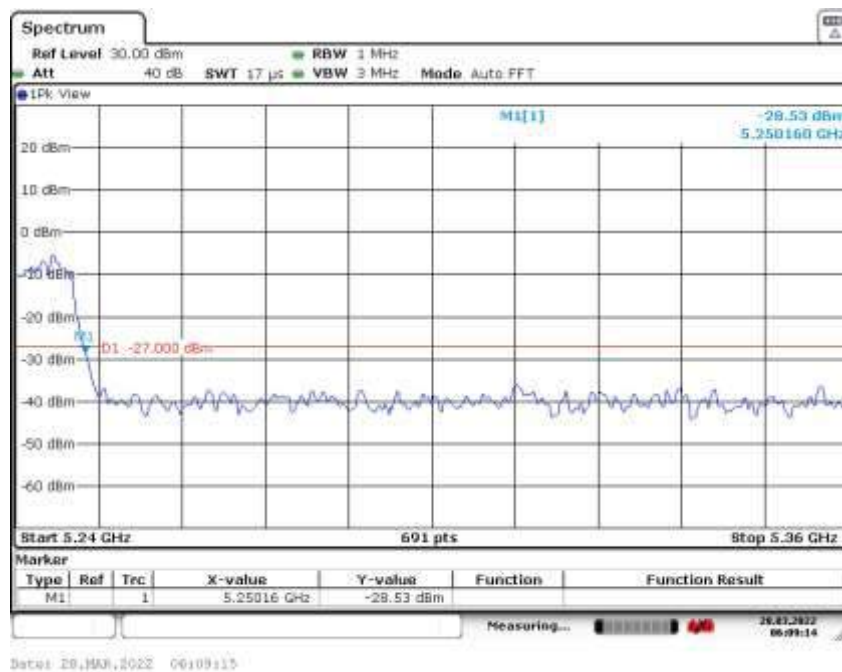
802.11a (5.15GHz-5.25GHz)

The Low Channel 36: 5180MHz



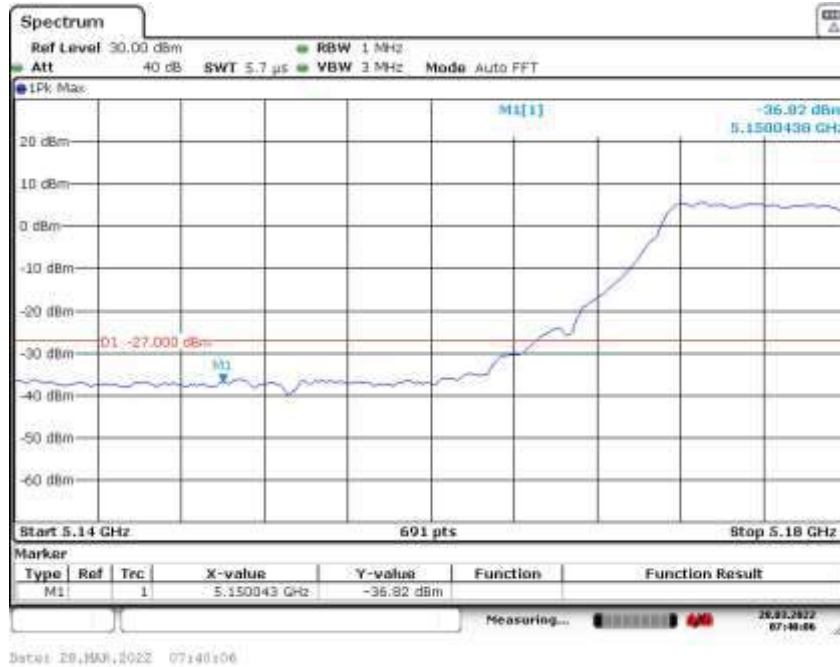
802.11a (5.15GHz-5.25GHz)

The High Channel 48: 5240MHz

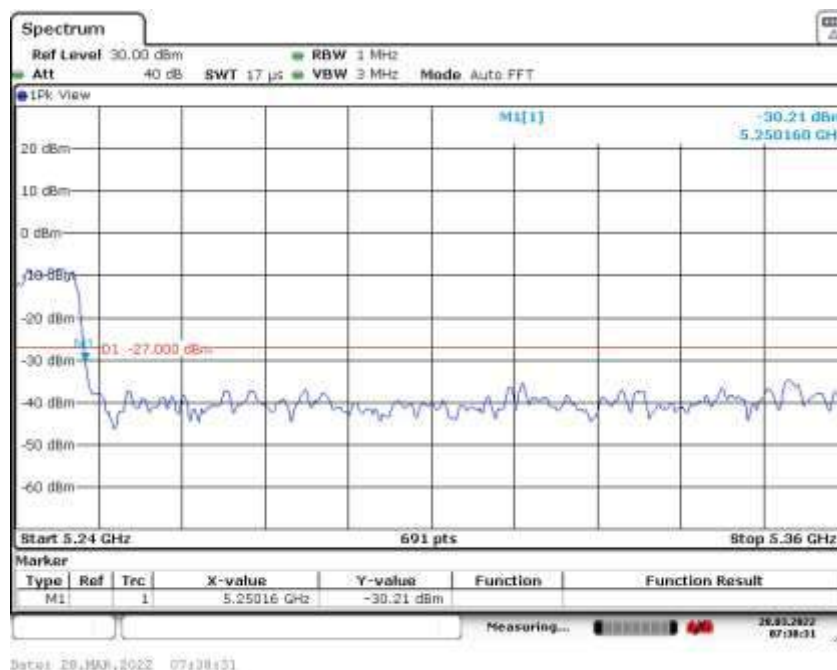


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802.11n(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz

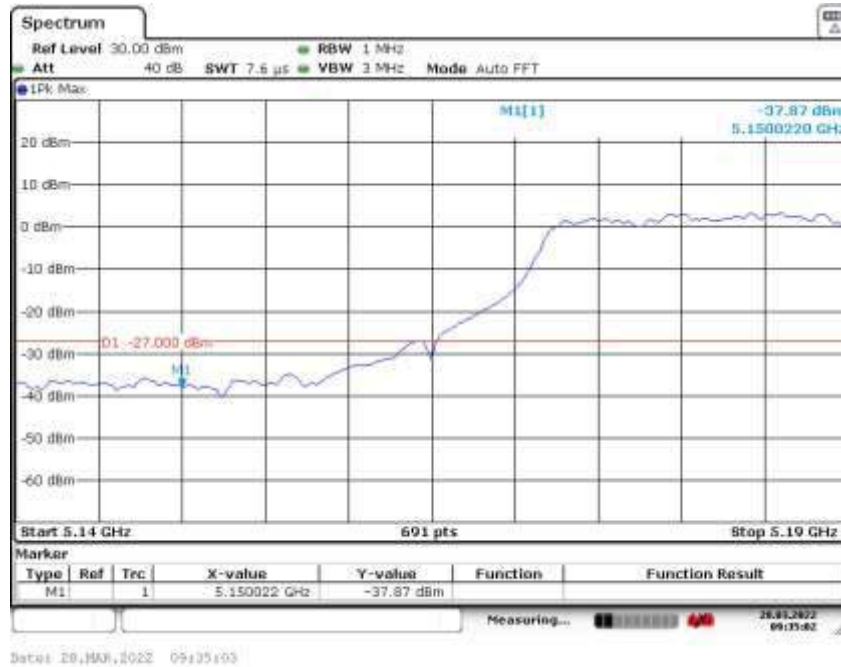


802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

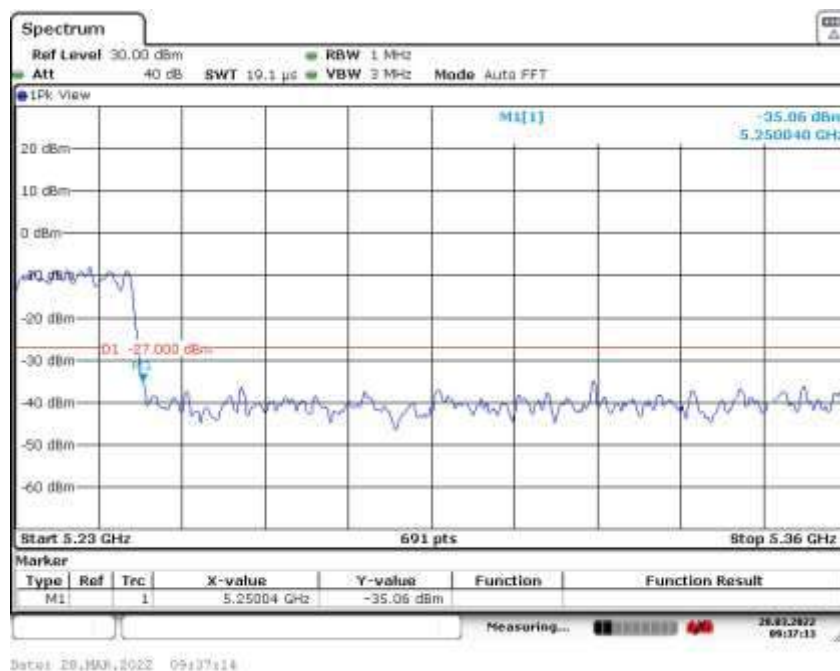


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802.11n(40M) (5.15GHz-5.25GHz)
The Lowest Channel 38: 5190MHz

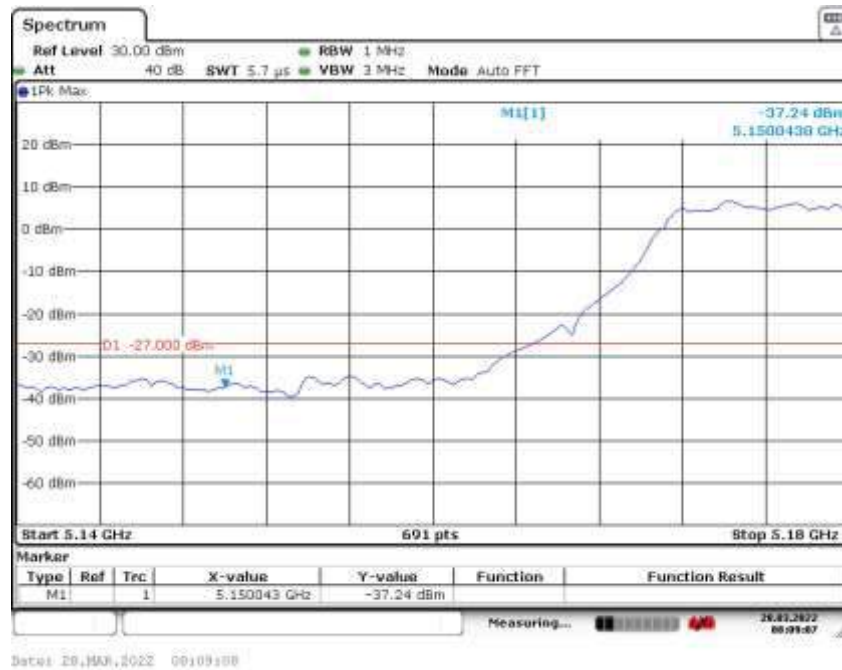


802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz

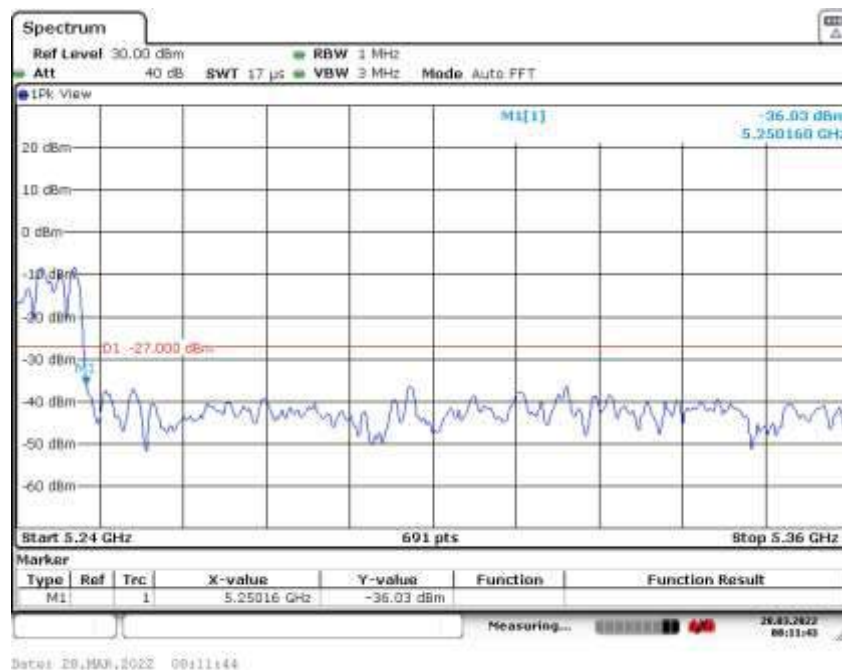


Report No.: AAEMT/EMC/220321-01-06

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

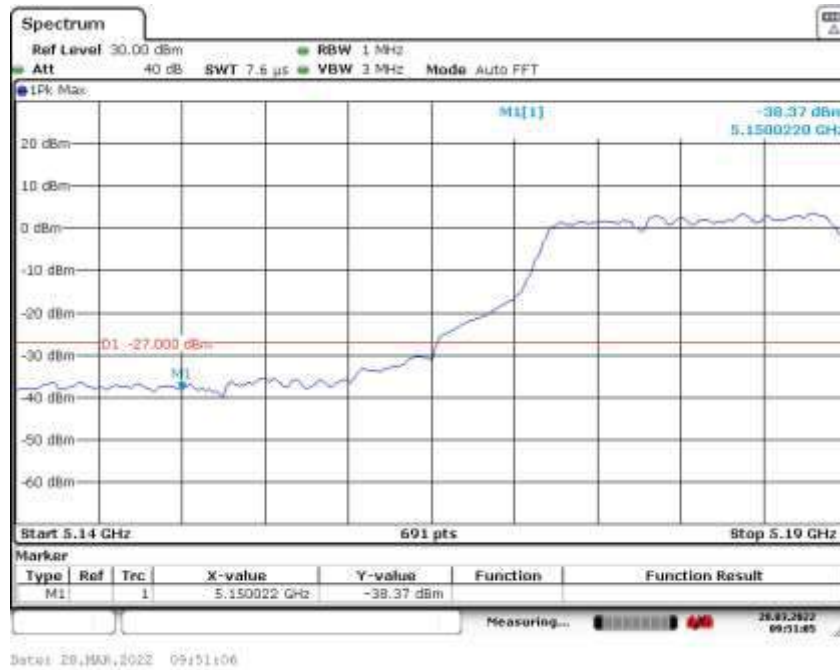


802.11ac(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

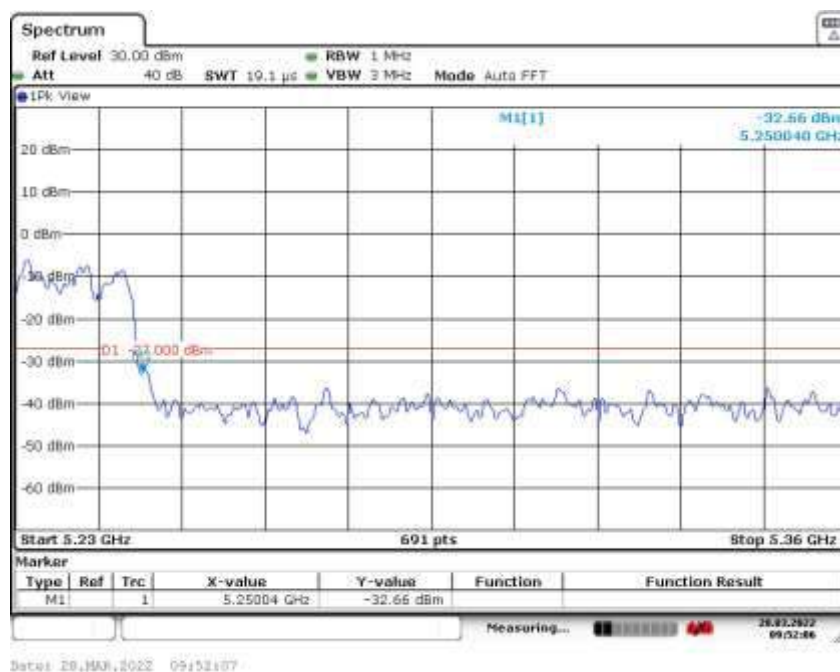


Report No.: AAEMT/EMC/220321-01-06

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

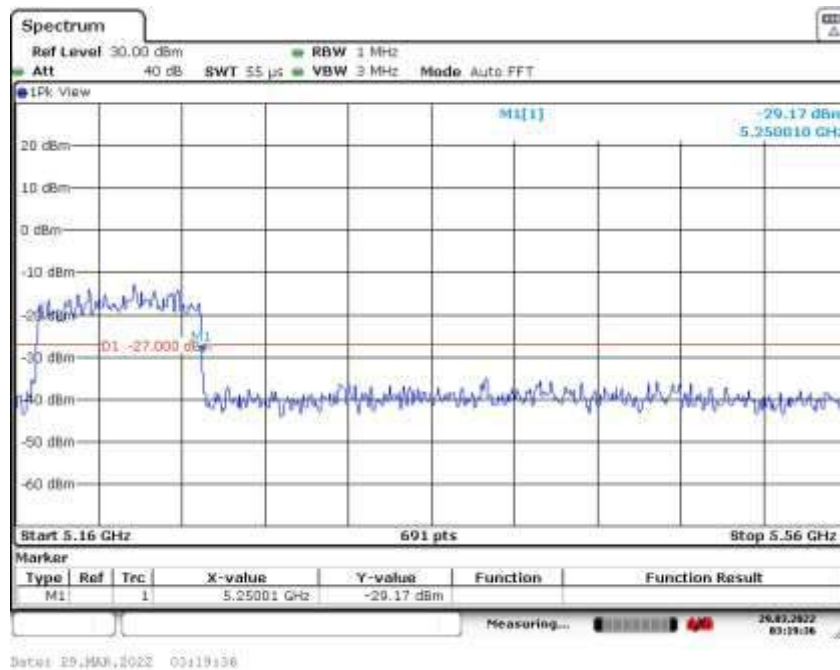
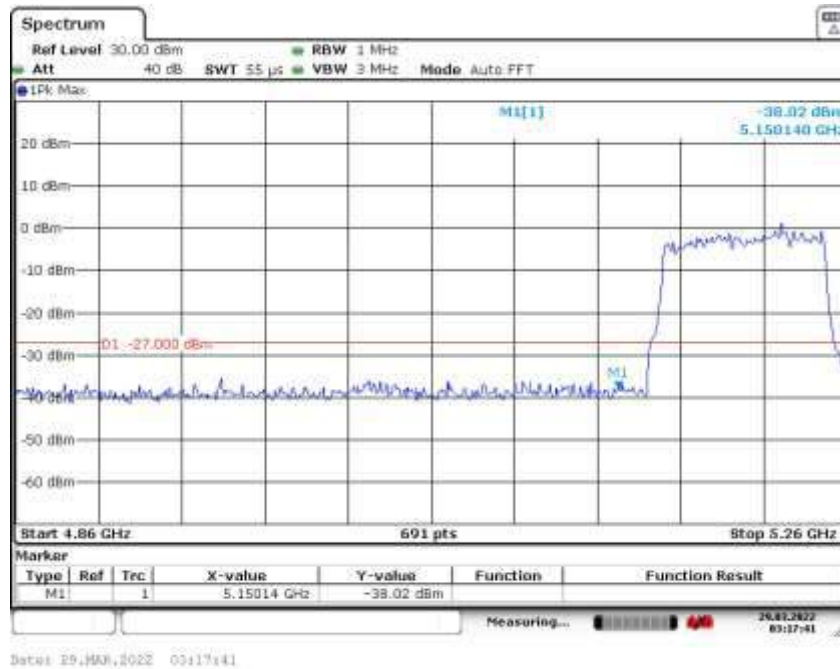


802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



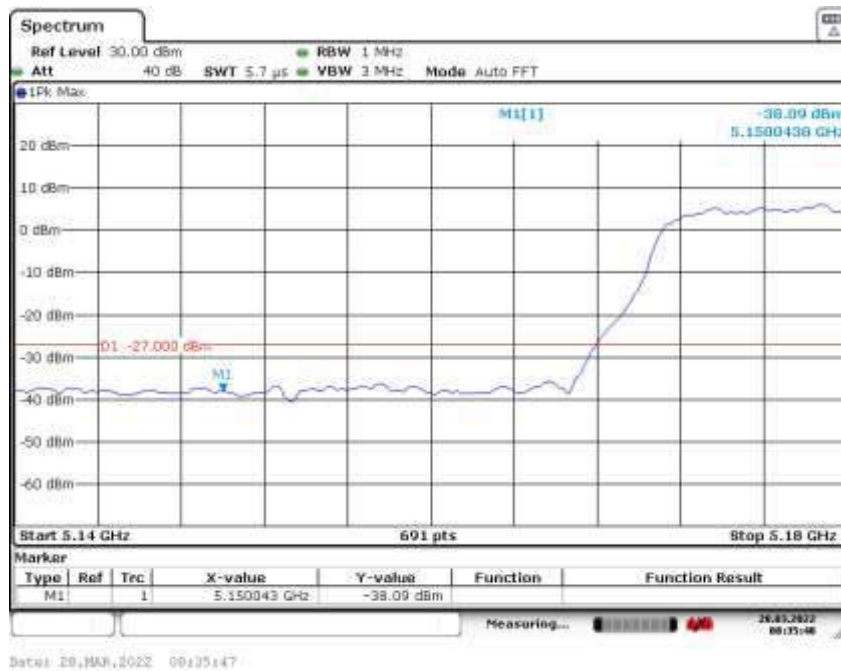
Report No.: AAEMT/EMC/220321-01-06

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

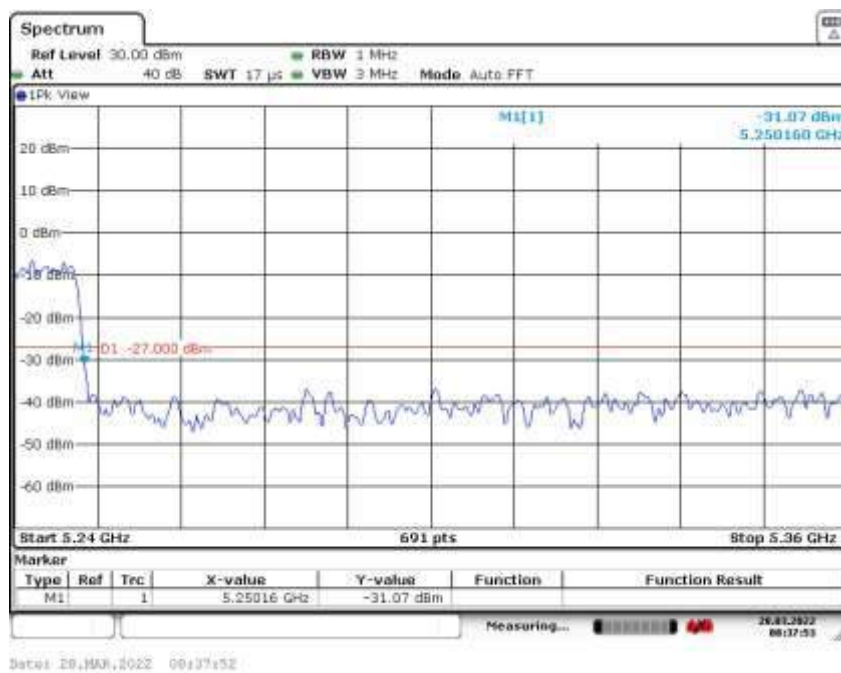


Report No.: AAEMT/EMC/220321-01-06

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

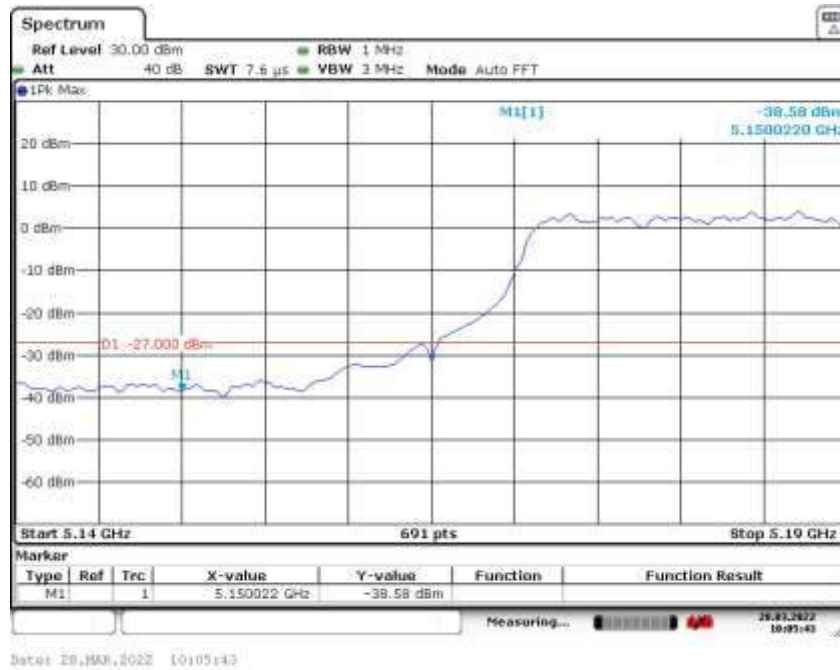


802.11ax(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

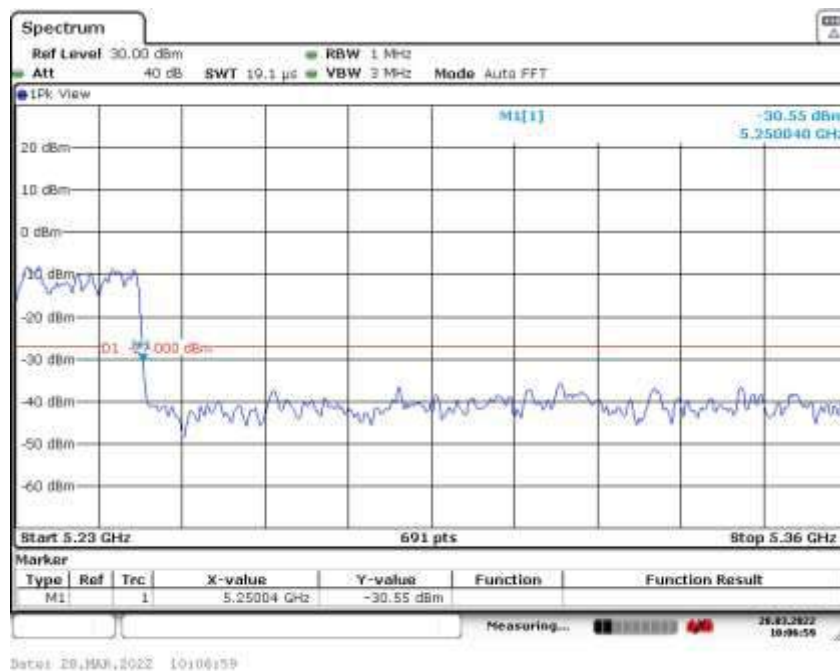


Report No.: AAEMT/EMC/220321-01-06

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

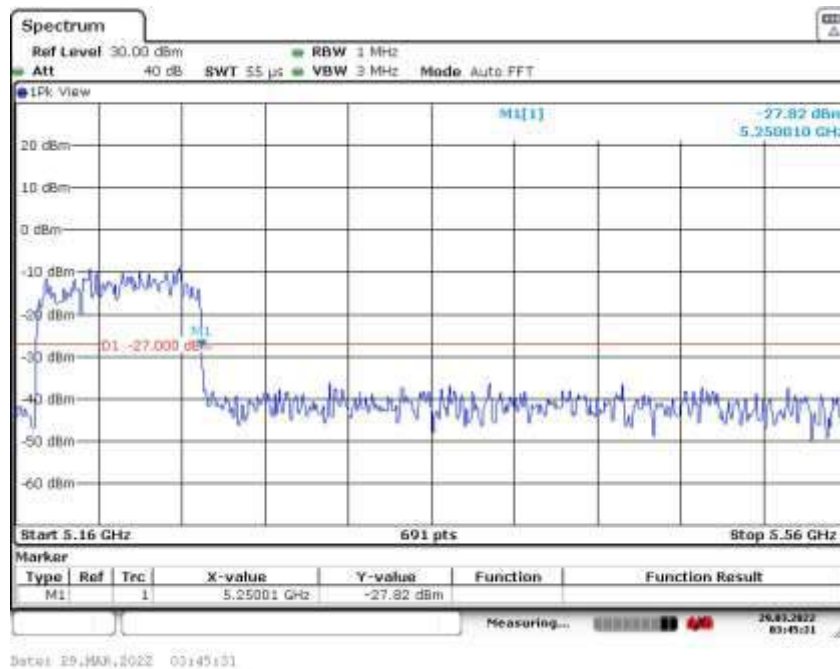
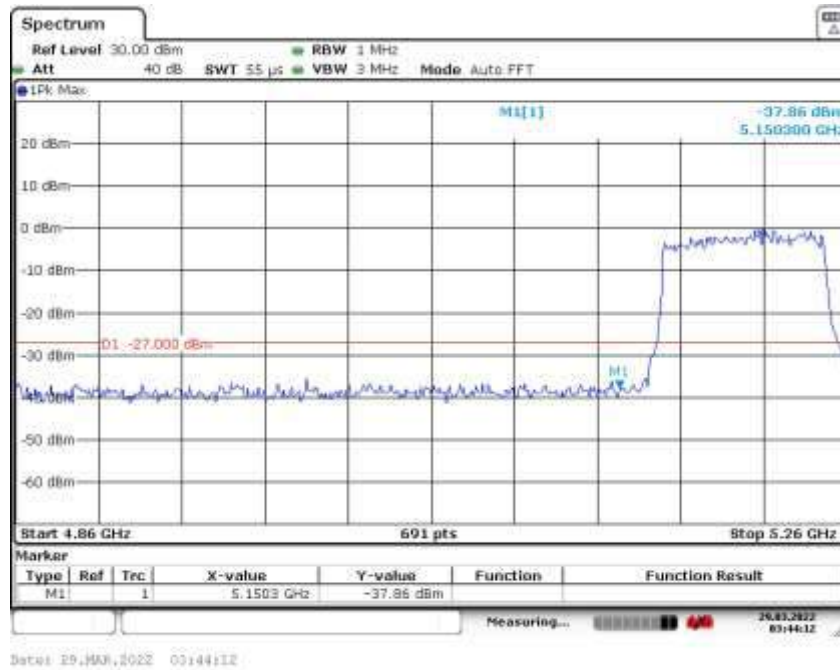


802.11ax(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



Report No.: AAEMT/EMC/220321-01-06

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

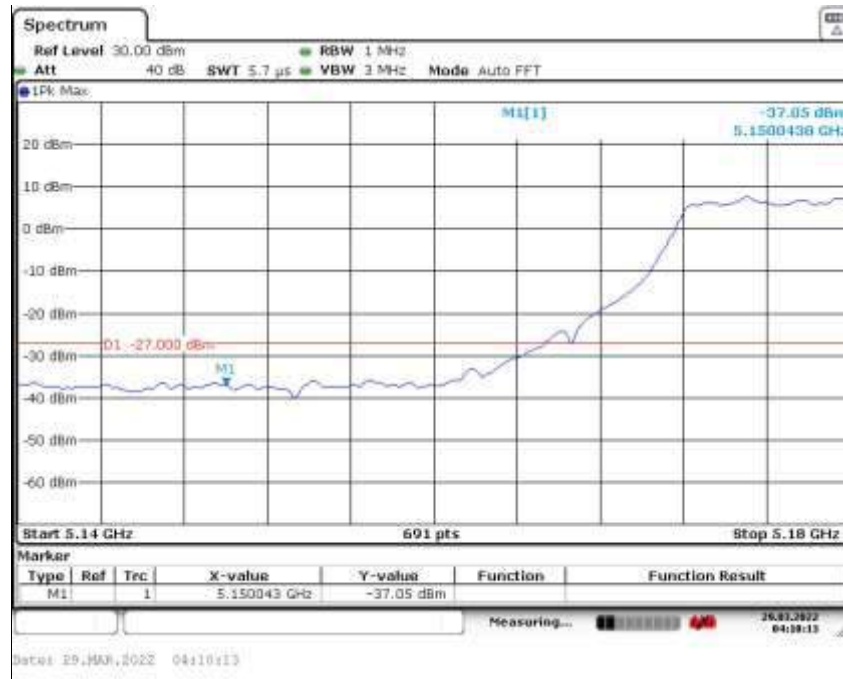


Report No.: AAEMT/EMC/220321-01-06

TEST RESULT ANT 5GS_1

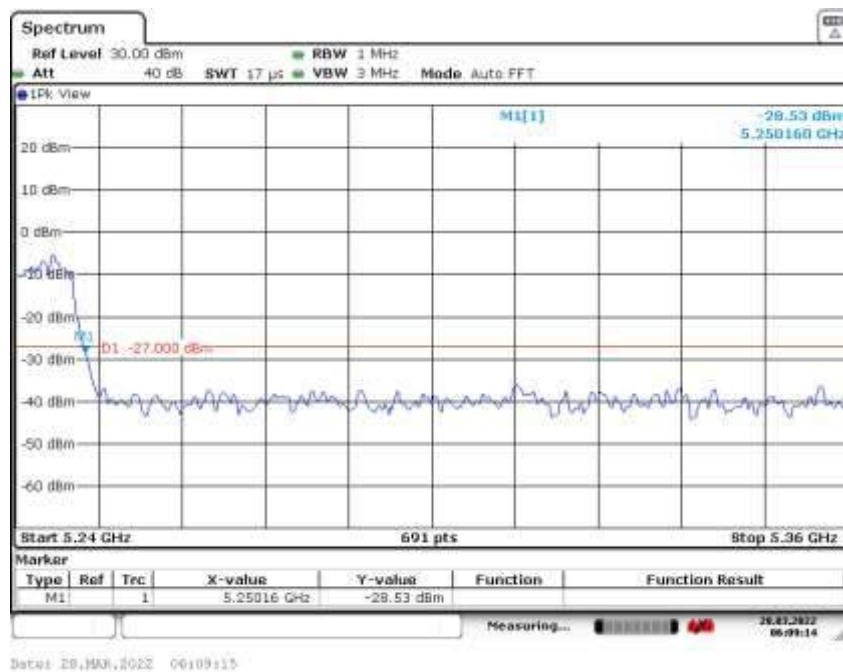
802.11a (5.15GHz-5.25GHz)

The Low Channel 36: 5180MHz



802.11a (5.15GHz-5.25GHz)

The High Channel 48: 5240MHz

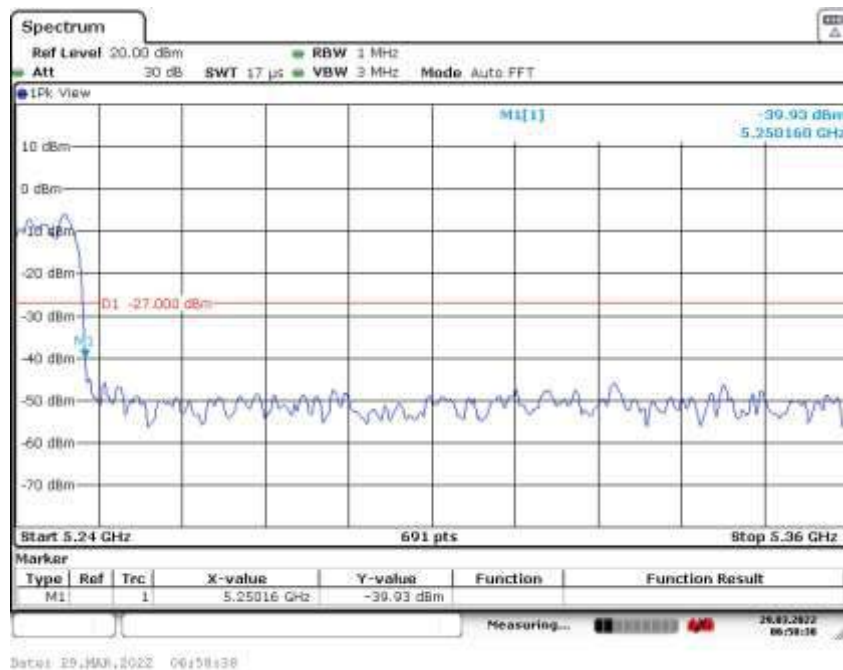


Report No.: AAEMT/EMC/220321-01-06

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

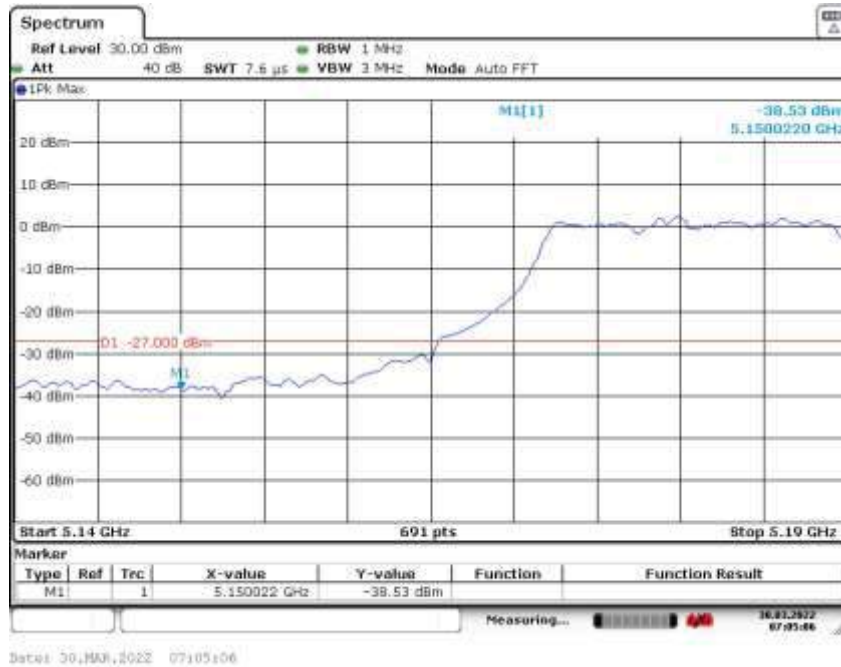


802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

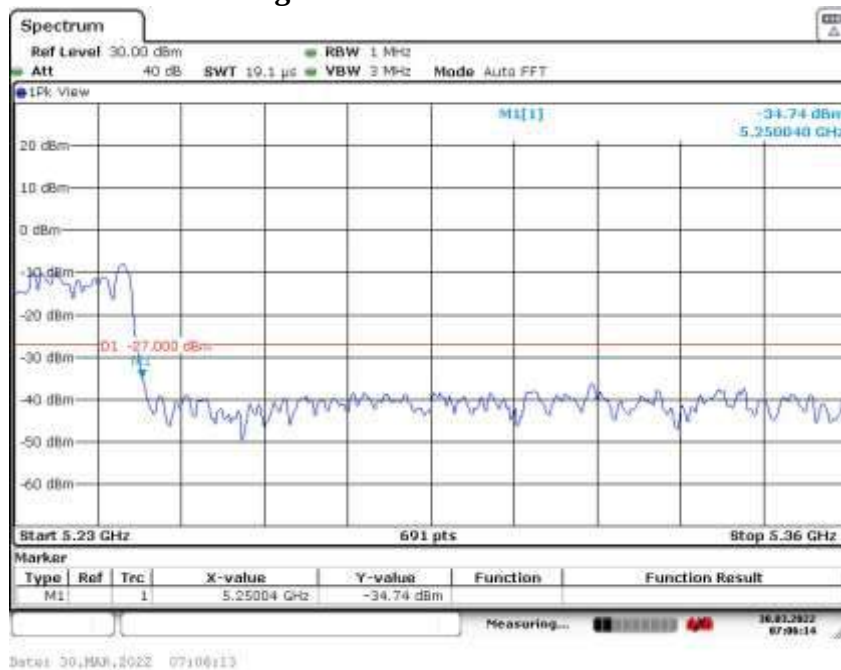


Report No.: AAEMT/EMC/220321-01-06

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

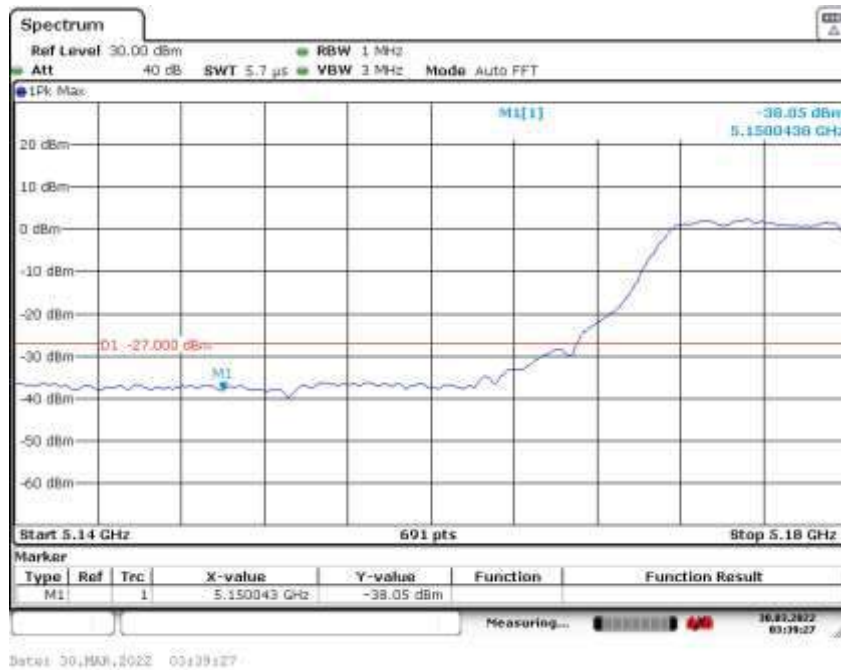


802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz

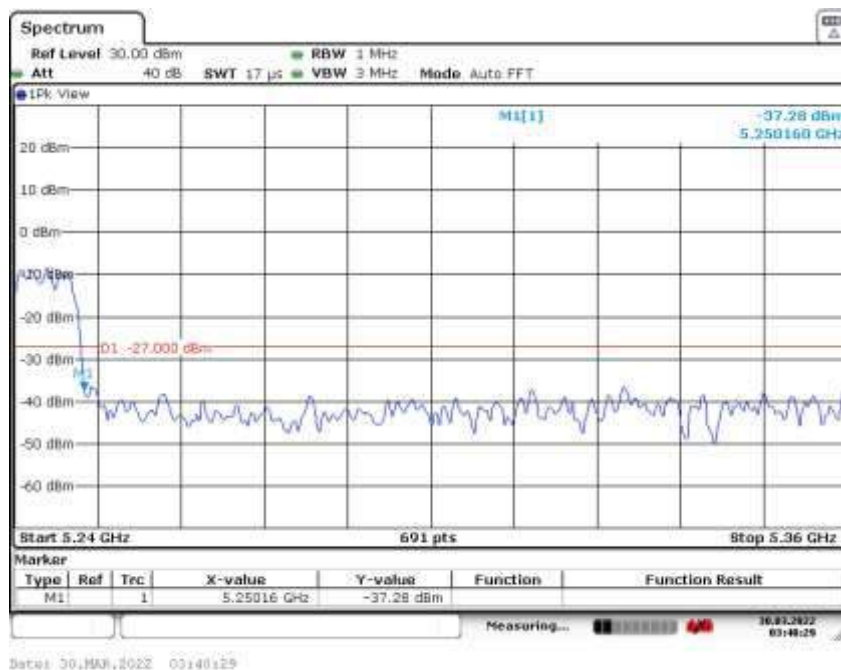


Report No.: AAEMT/EMC/220321-01-06

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

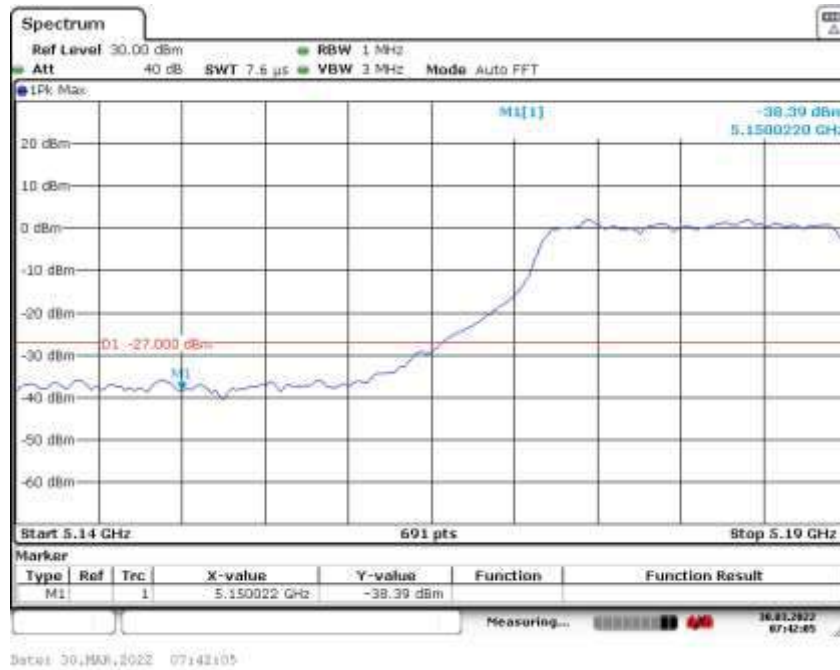


802.11ac(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

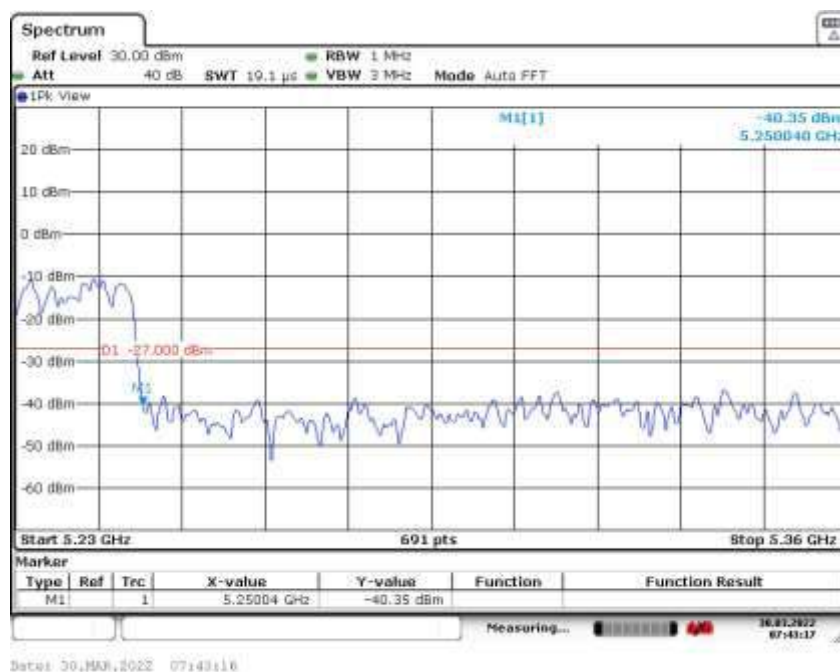


Report No.: AAEMT/EMC/220321-01-06

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

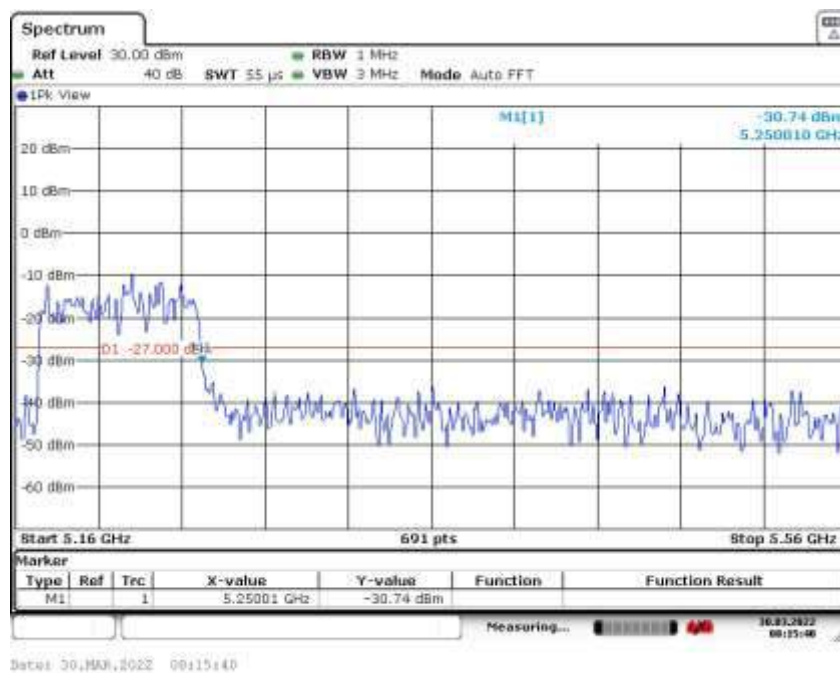
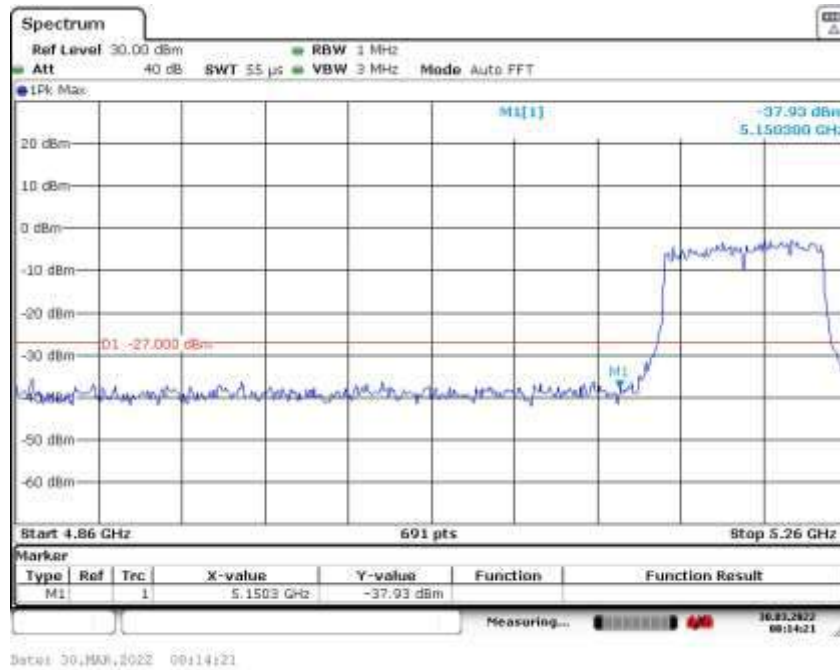


802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



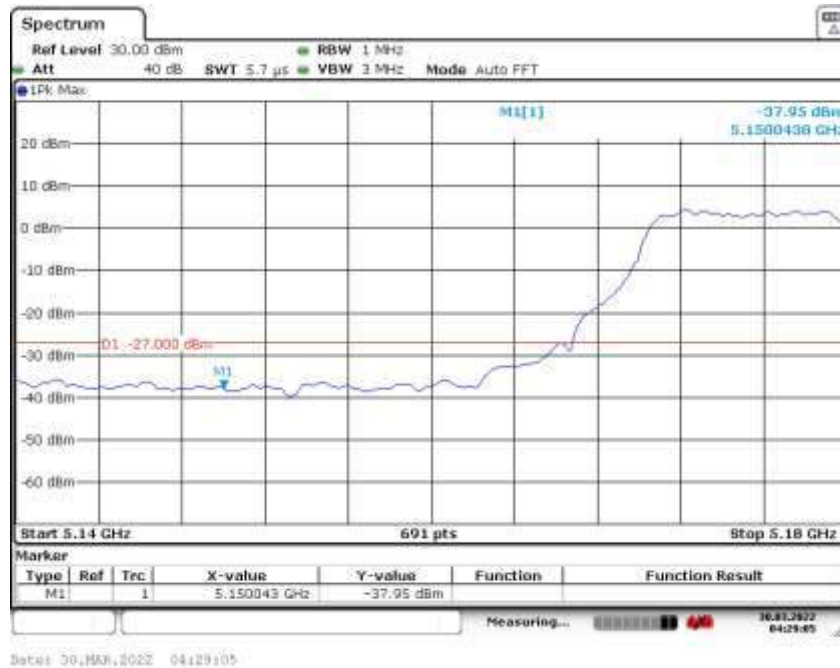
Report No.: AAEMT/EMC/220321-01-06

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

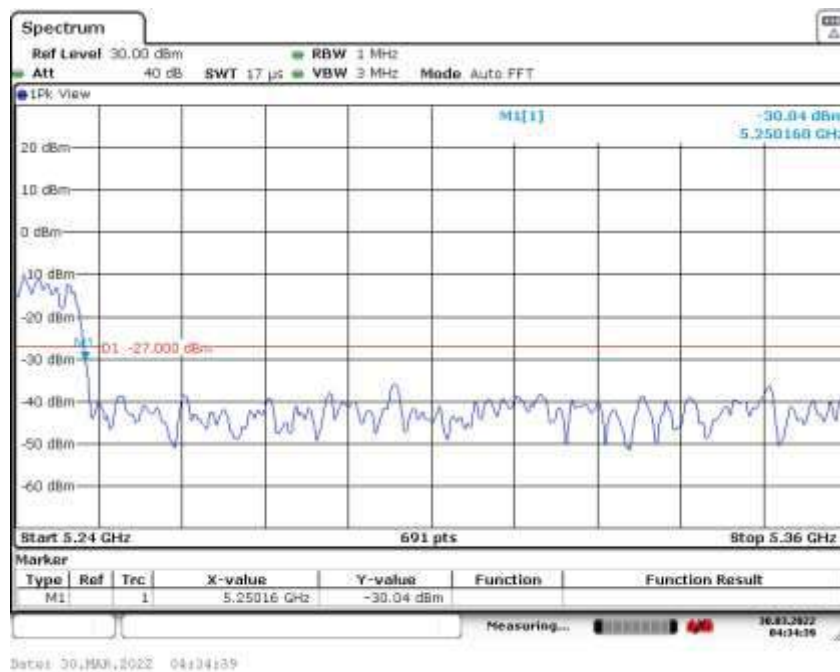


Report No.: AAEMT/EMC/220321-01-06

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

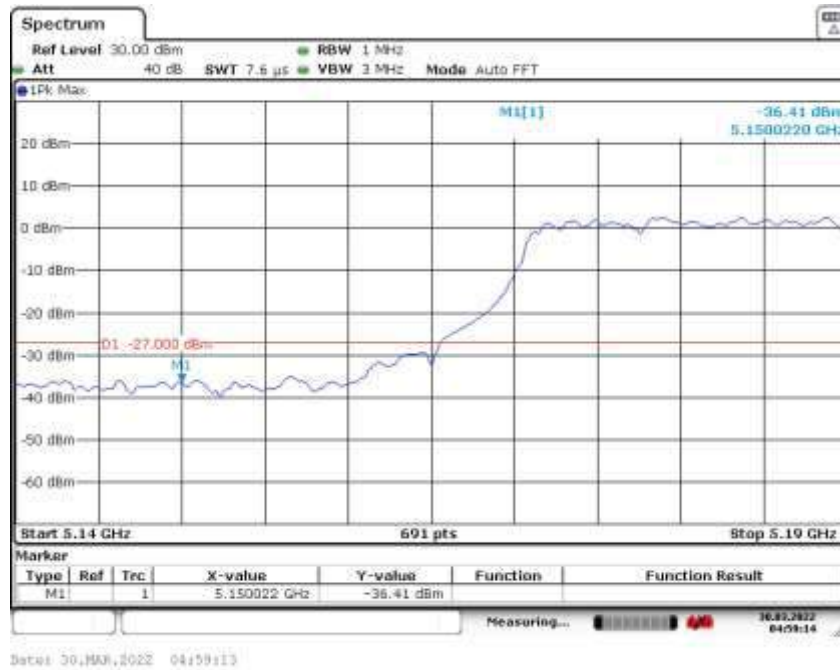


802.11ax(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

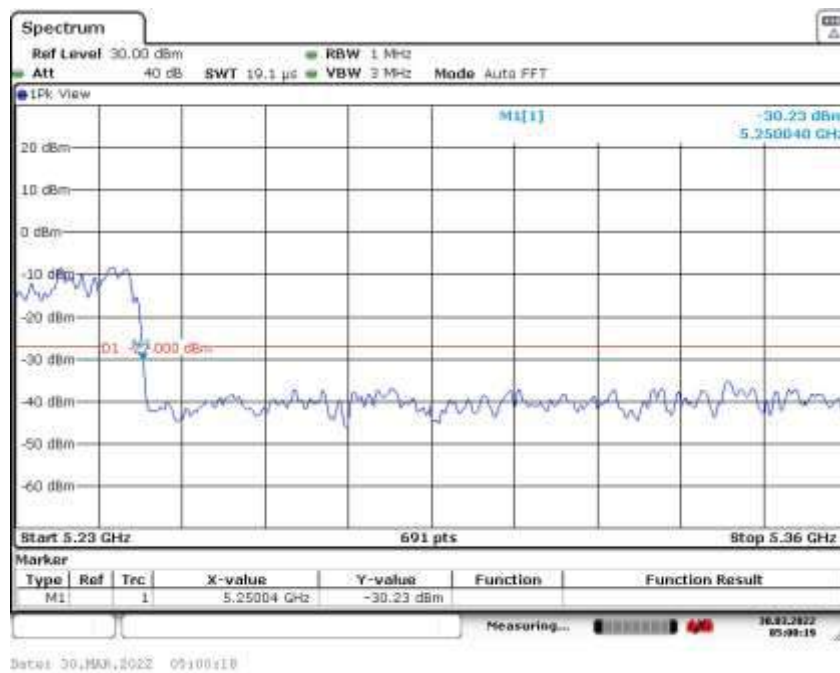


Report No.: AAEMT/EMC/220321-01-06

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

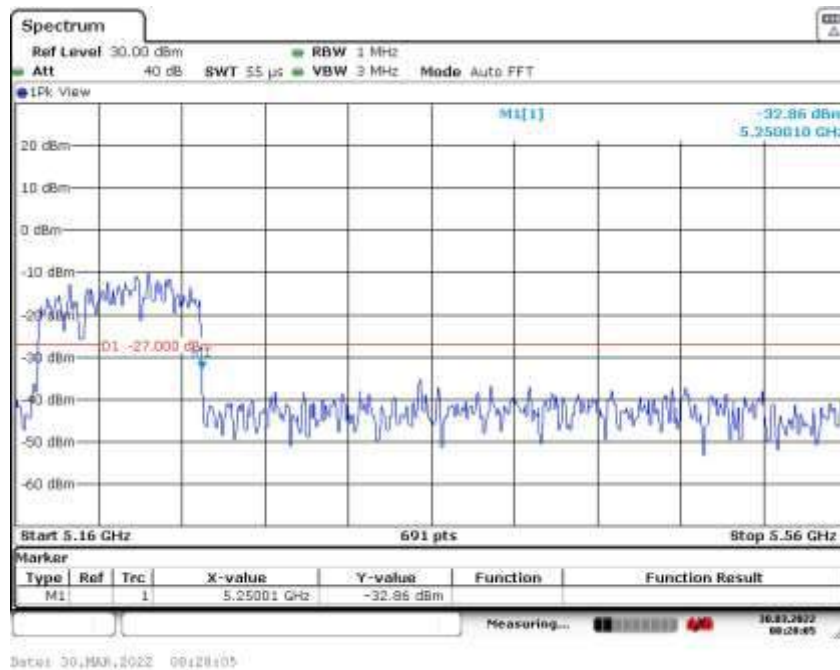
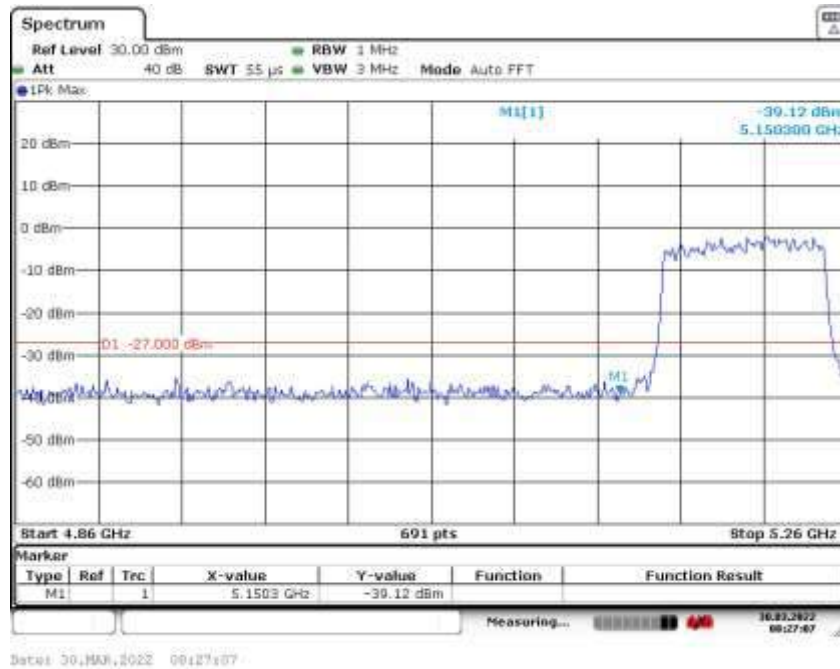


802.11ax(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



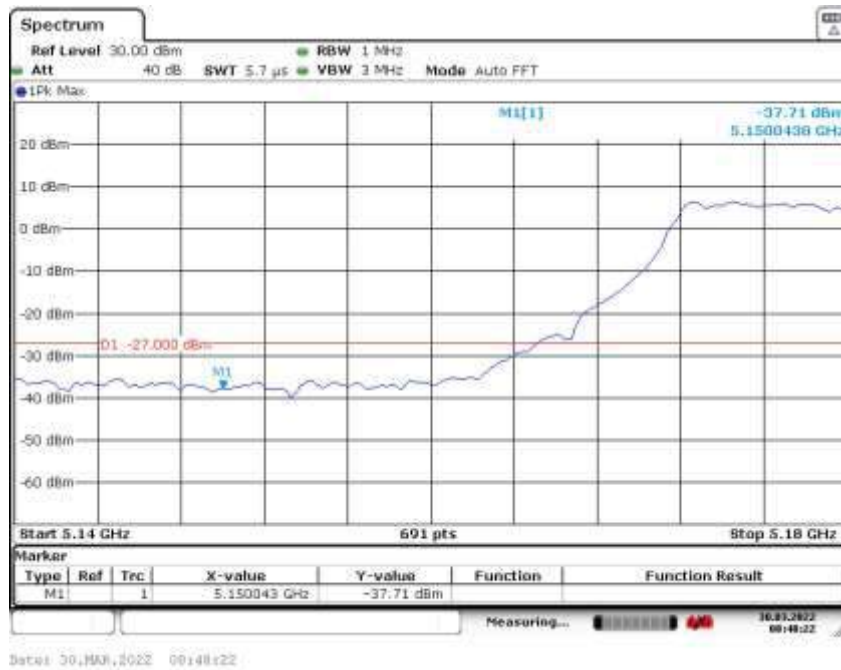
Report No.: AAEMT/EMC/220321-01-06

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

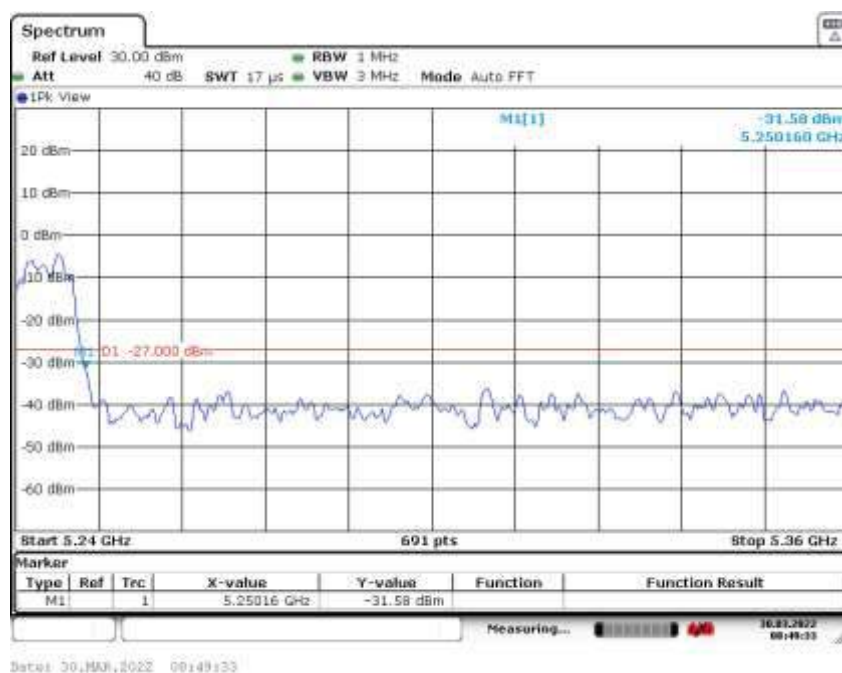


TEST RESULT ANT 5GS_2

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

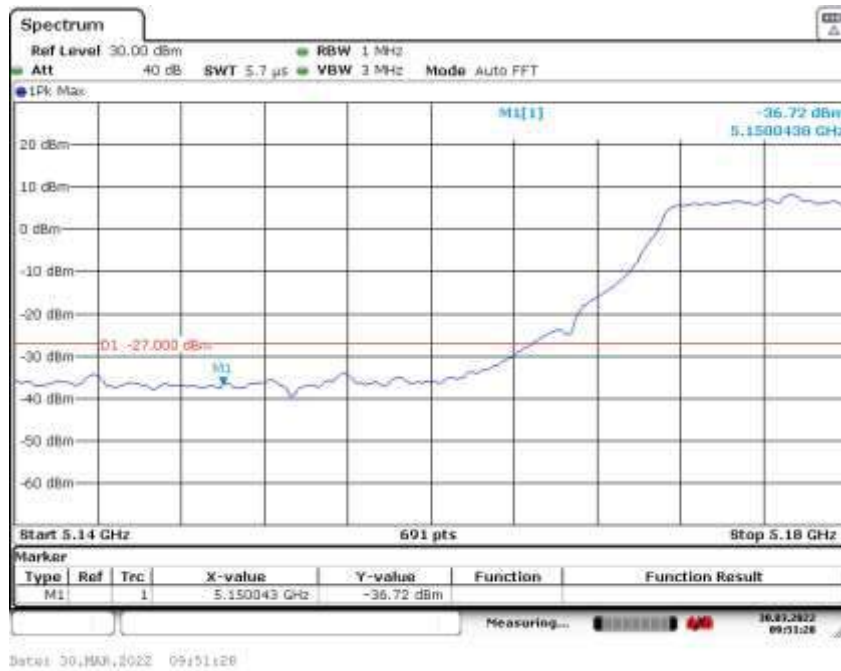


802.11a (5.15GHz-5.25GHz) The High Channel 48: 5240MHz

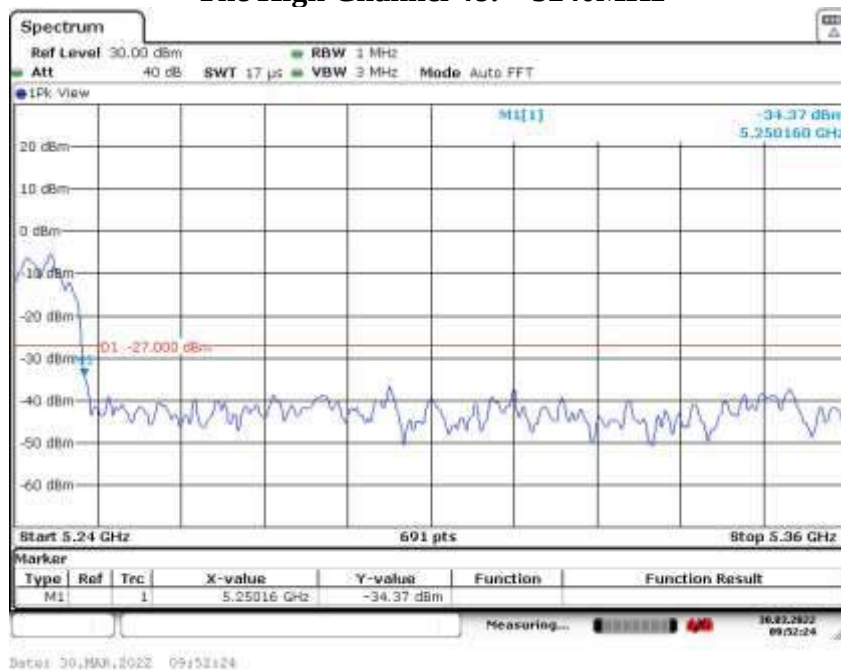


Report No.: AAEMT/EMC/220321-01-06

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



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

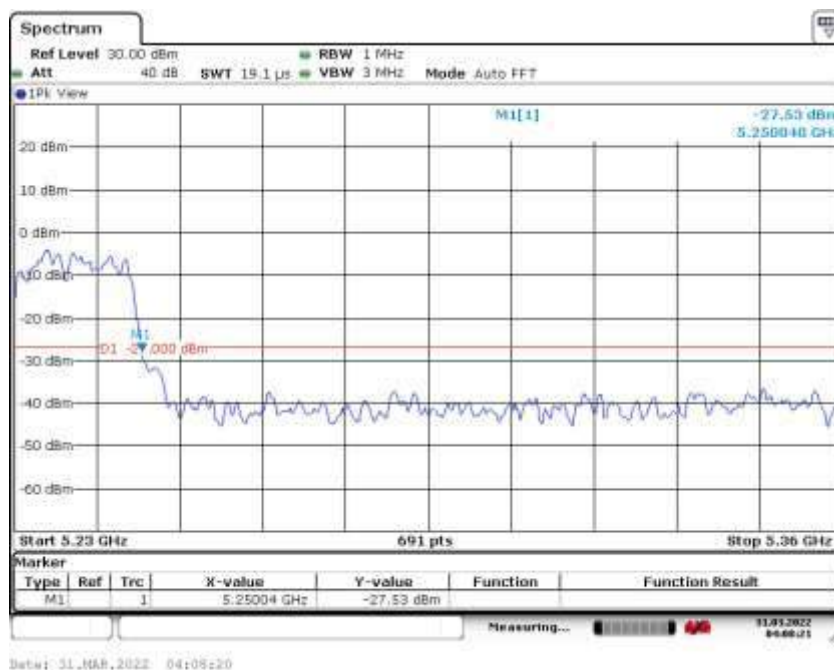


Report No.: AAEMT/EMC/220321-01-06

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

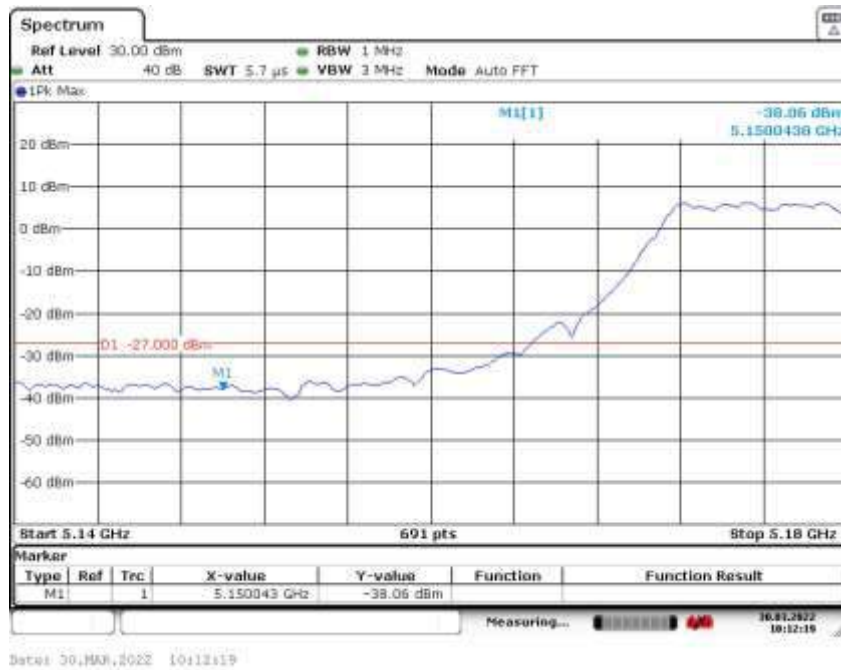


802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz

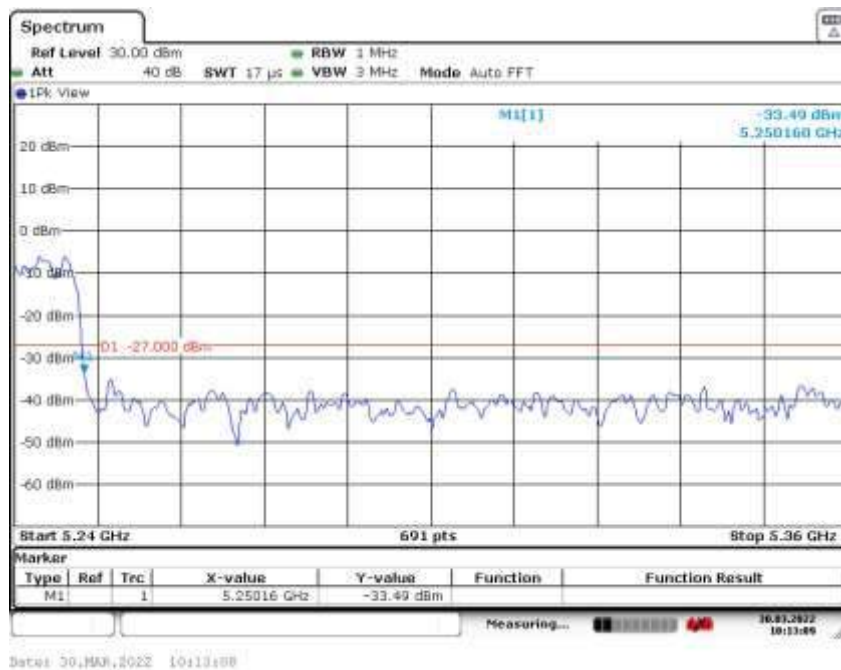


Report No.: AAEMT/EMC/220321-01-06

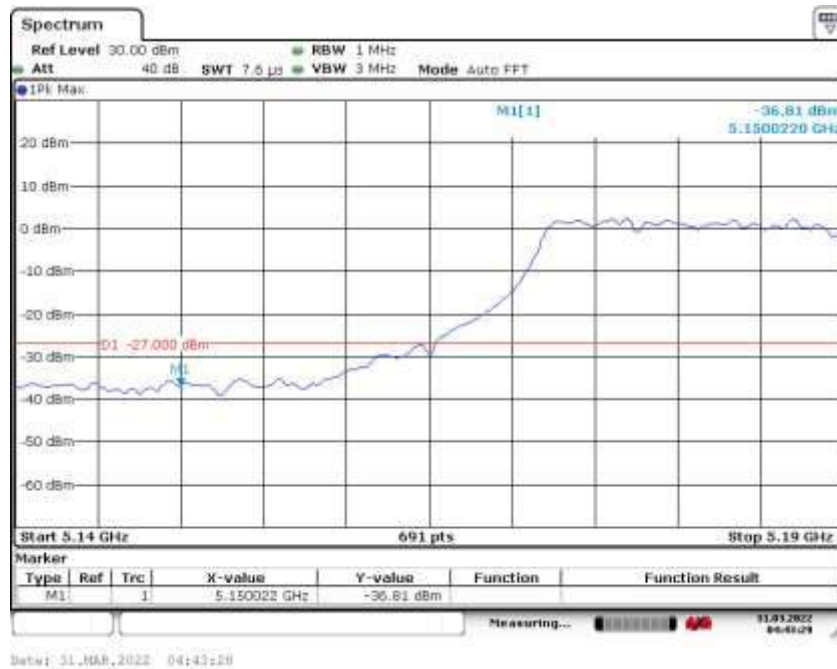
802.11ac(20M) (5.15GHz-5.25GHz)
The Lowest Channel 36: 5180MHz



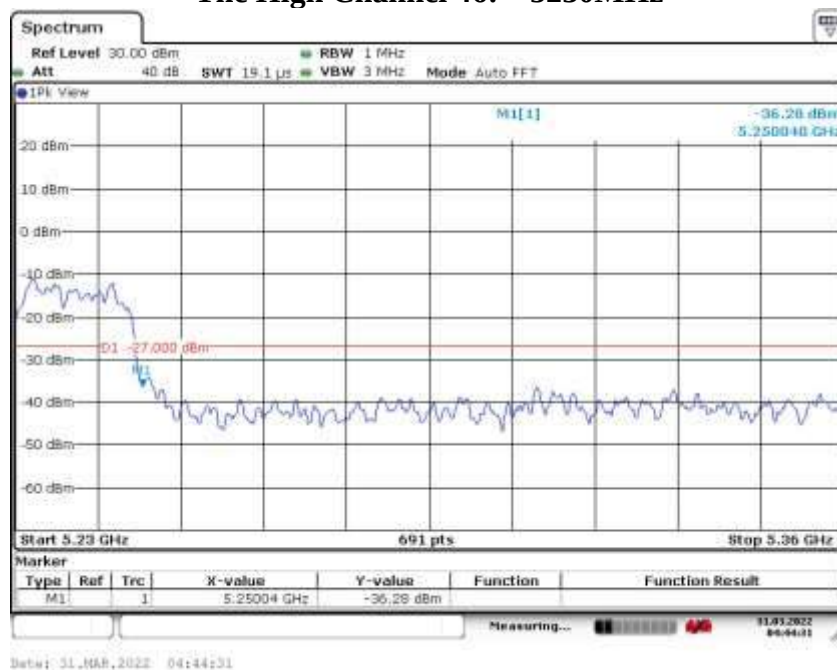
802.11ac(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz



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

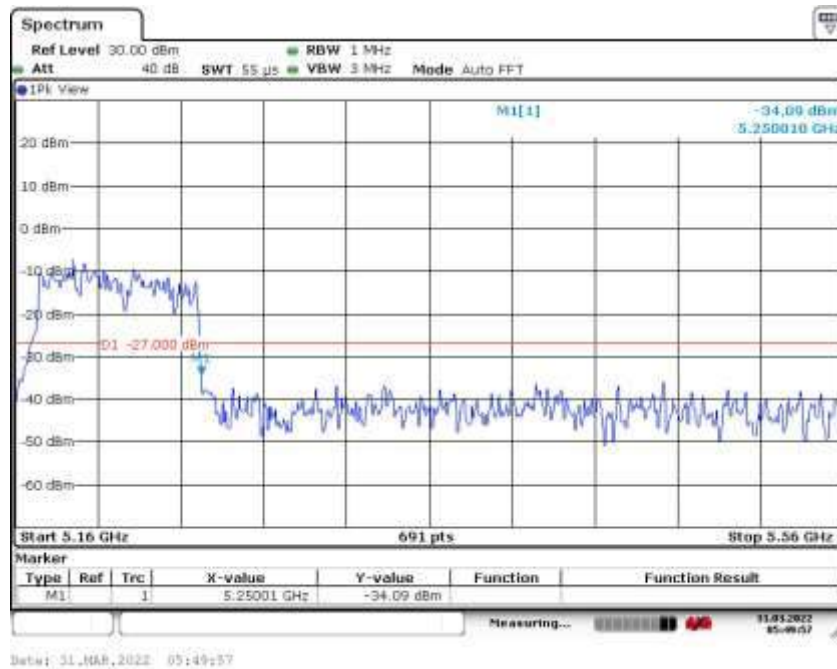
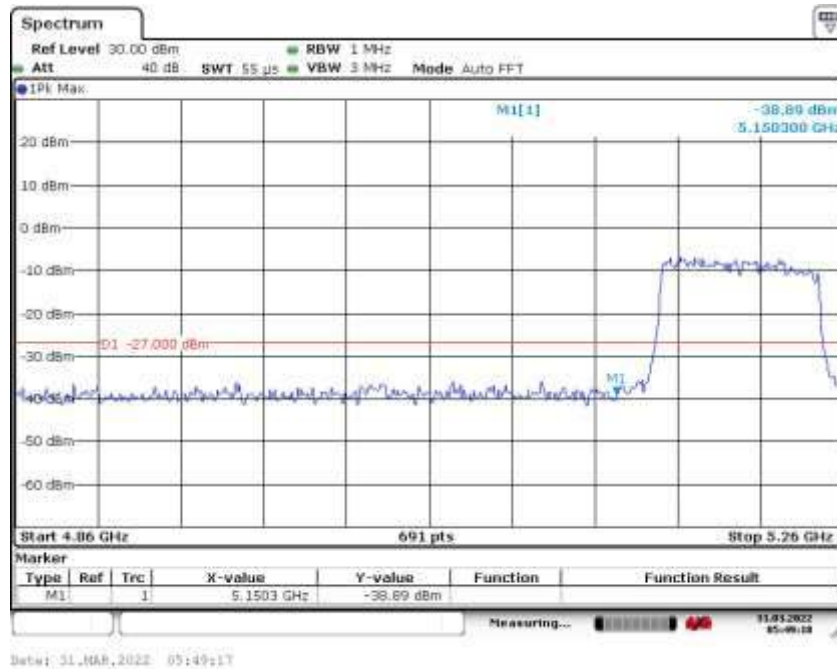


802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



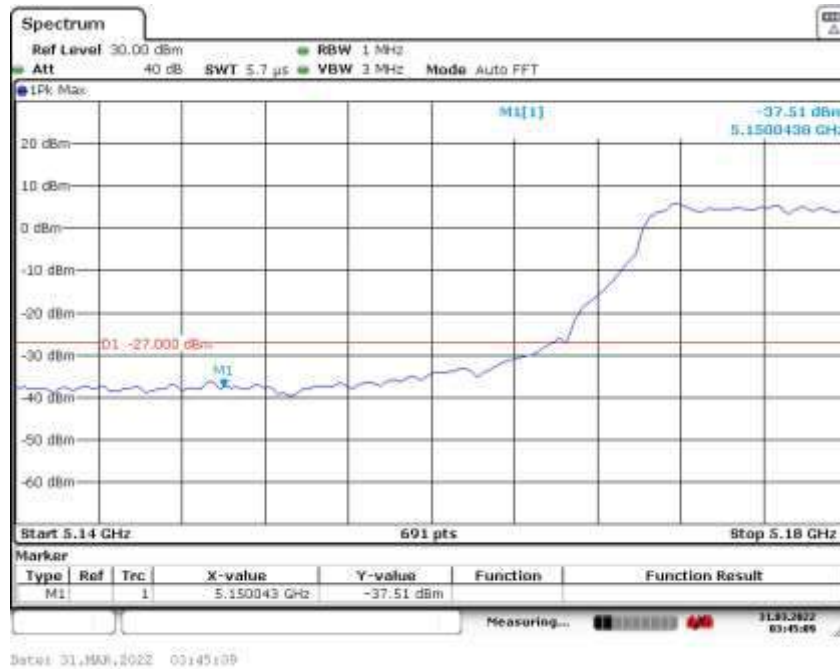
Report No.: AAEMT/EMC/220321-01-06

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

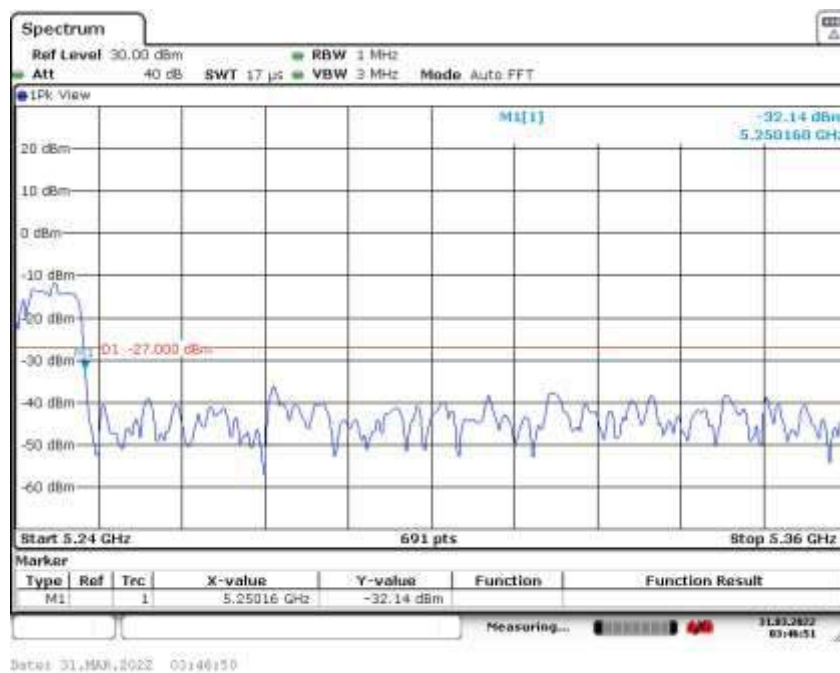


Report No.: AAEMT/EMC/220321-01-06

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

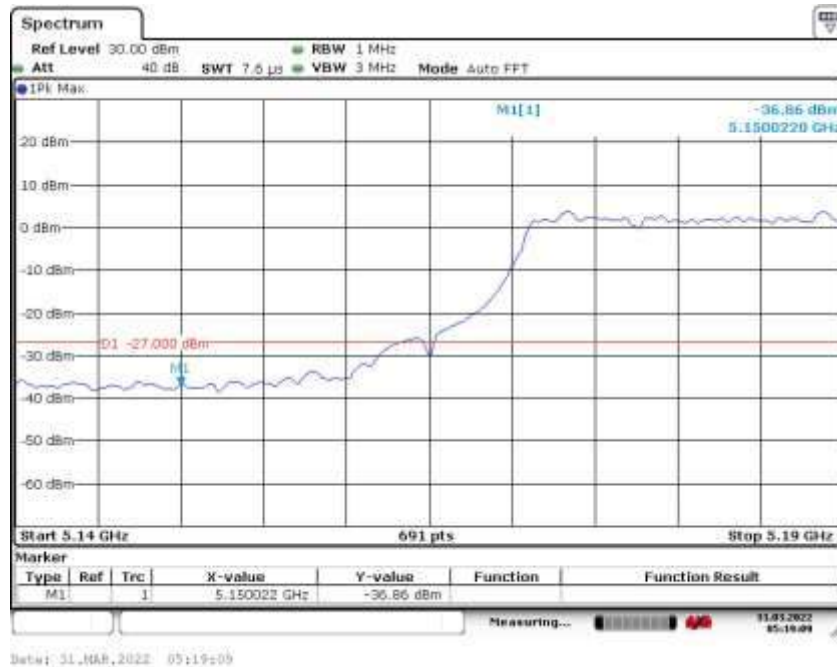


802.11ax(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

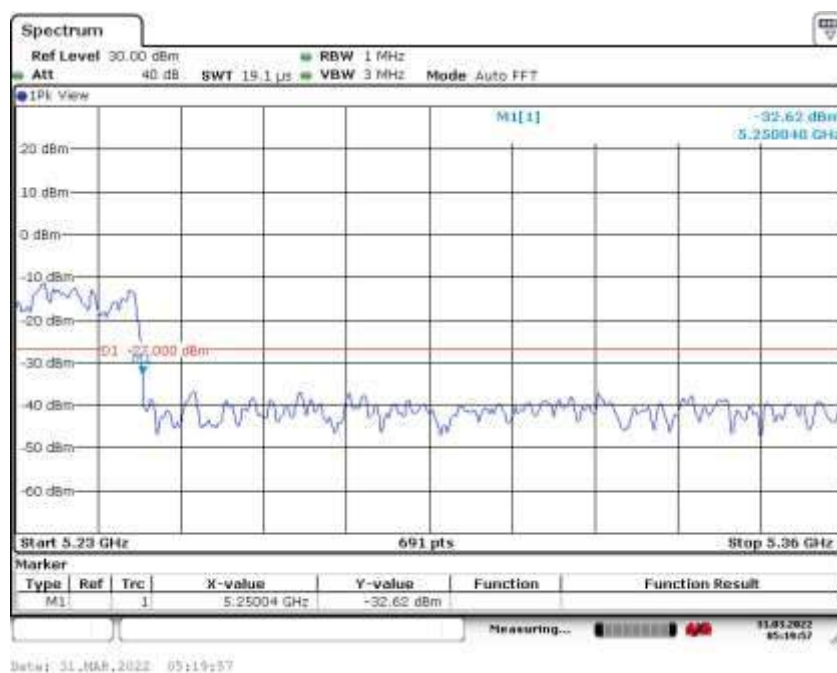


Report No.: AAEMT/EMC/220321-01-06

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

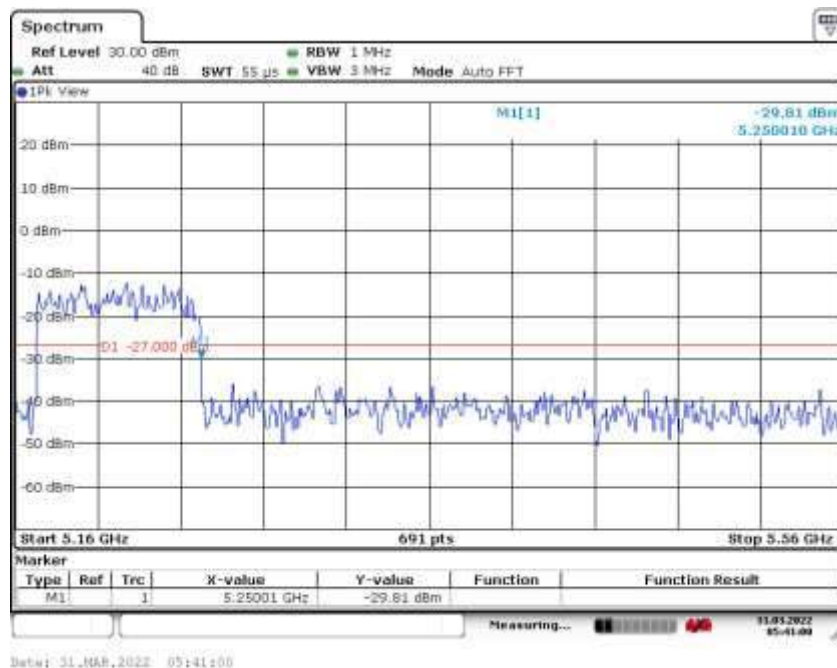
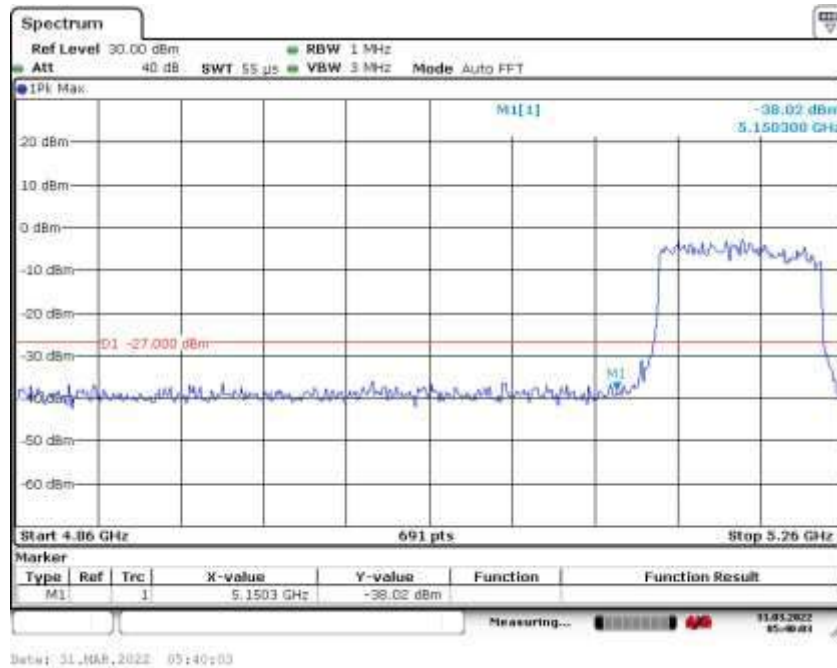


802.11ax(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



Report No.: AAEMT/EMC/220321-01-06

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

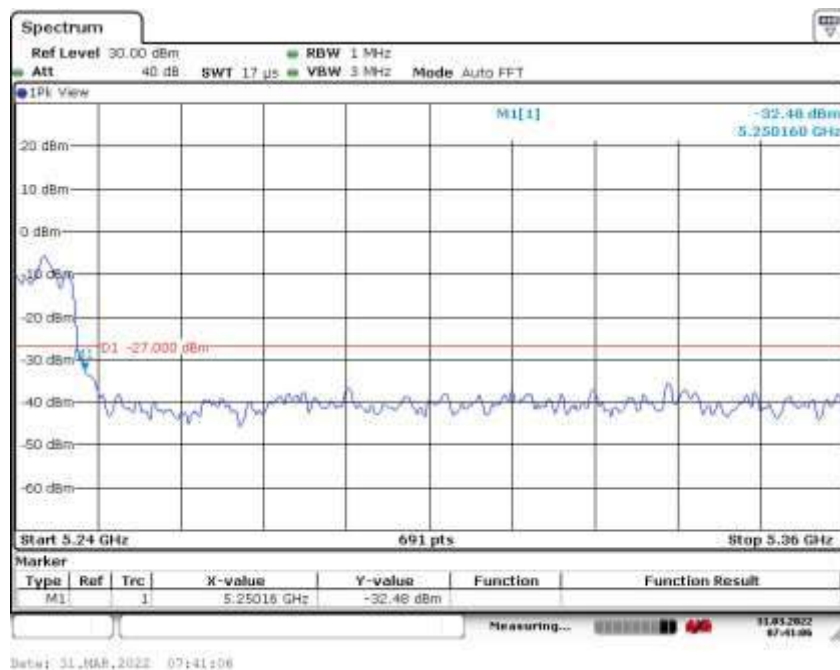


TEST RESULT ANT 5GS_3

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

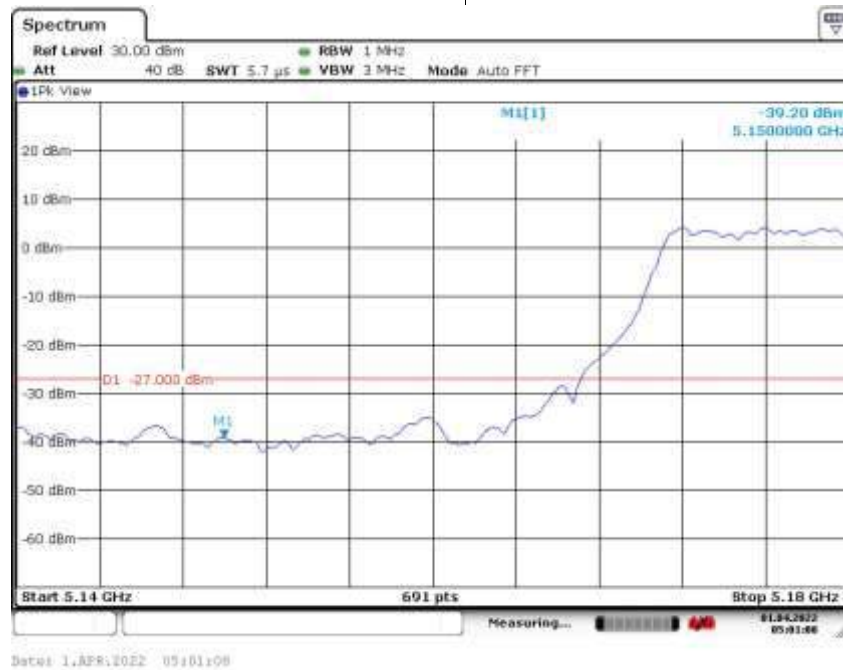


802.11a (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

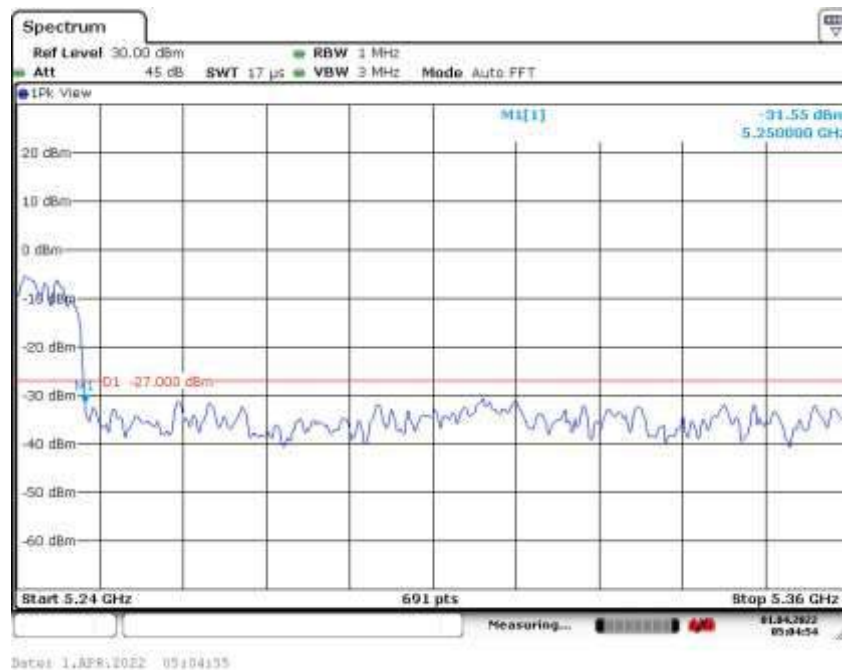


Report No.: AAEMT/EMC/220321-01-06

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

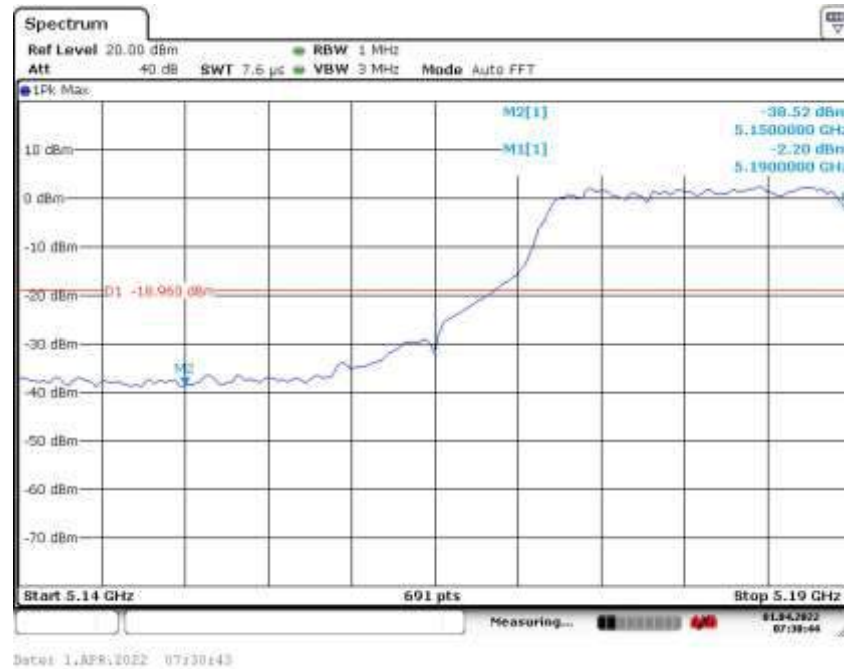


802.11n(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

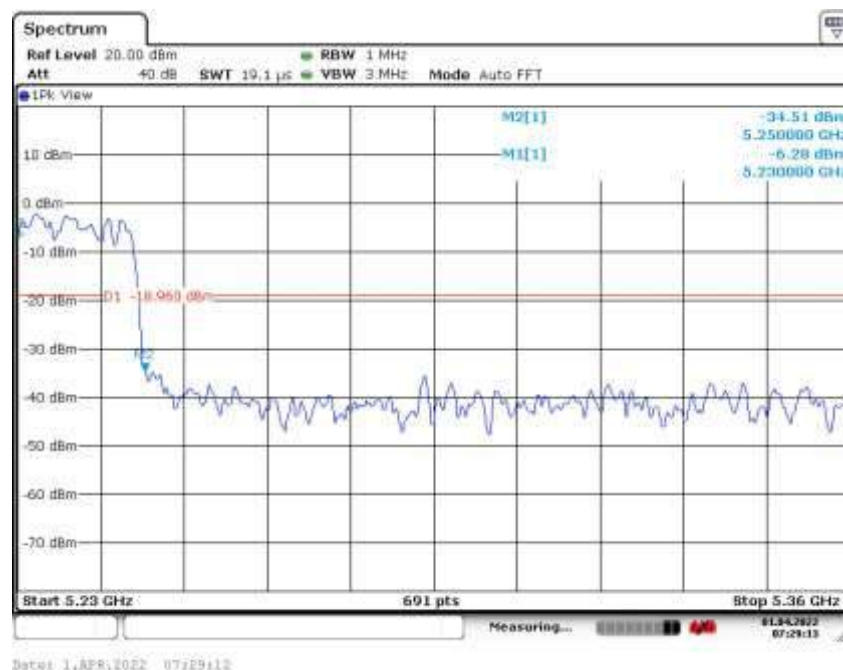


Report No.: AAEMT/EMC/220321-01-06

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

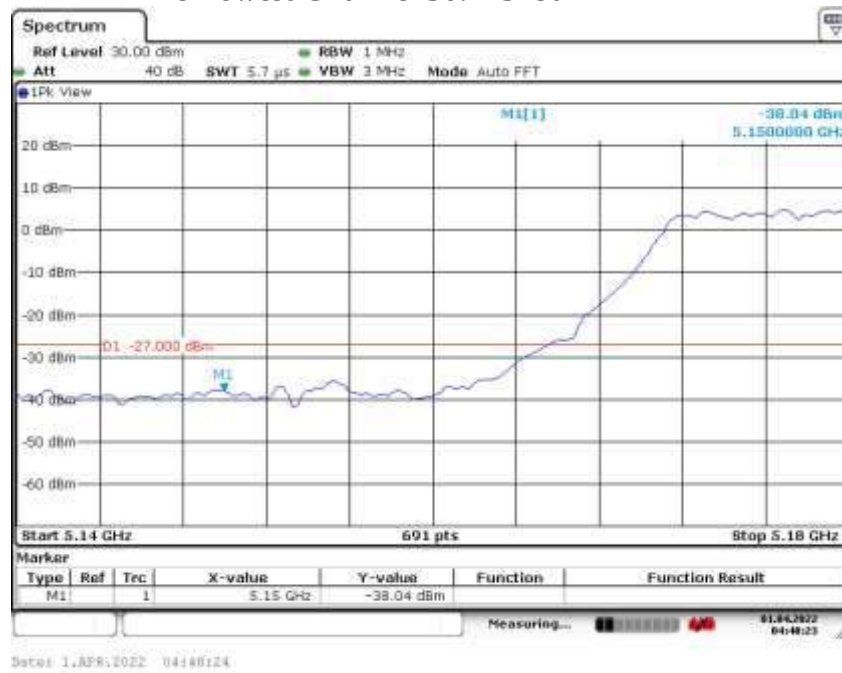


802.11n(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz

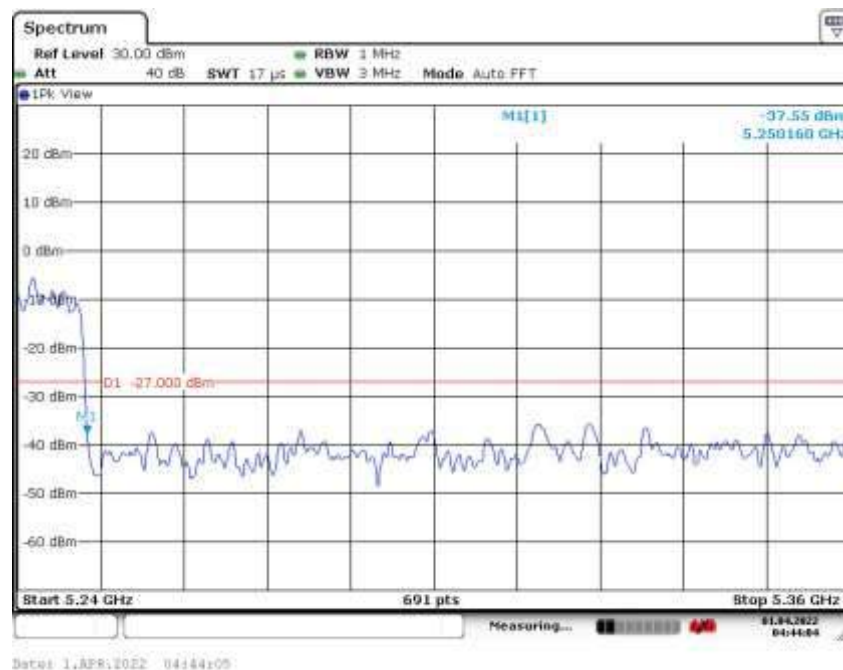


Report No.: AAEMT/EMC/220321-01-06

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

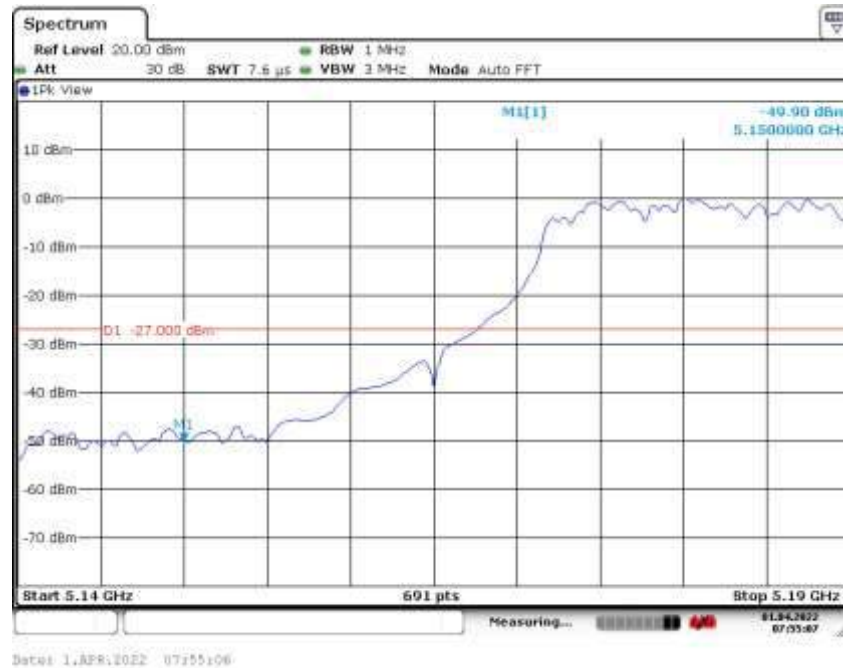


802.11ac(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

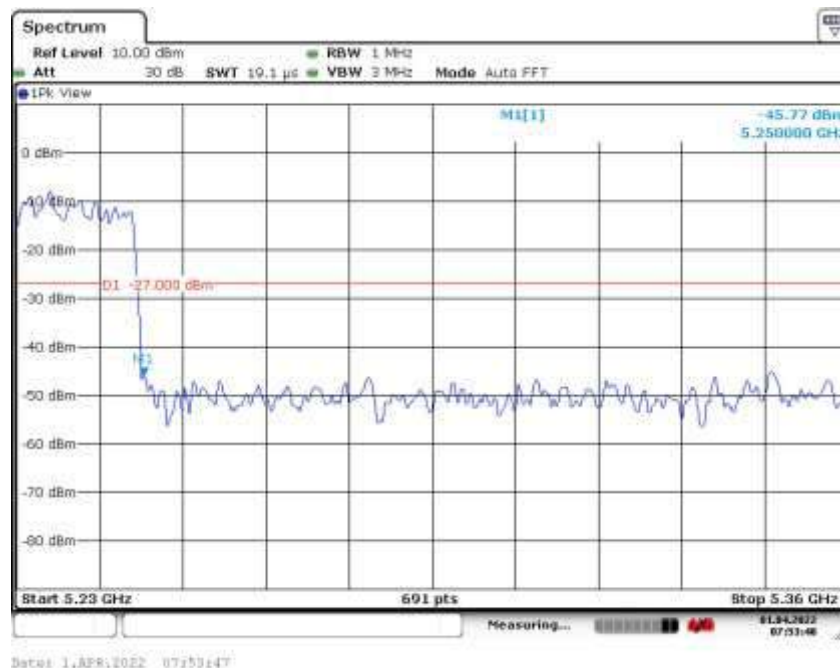


Report No.: AAEMT/EMC/220321-01-06

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

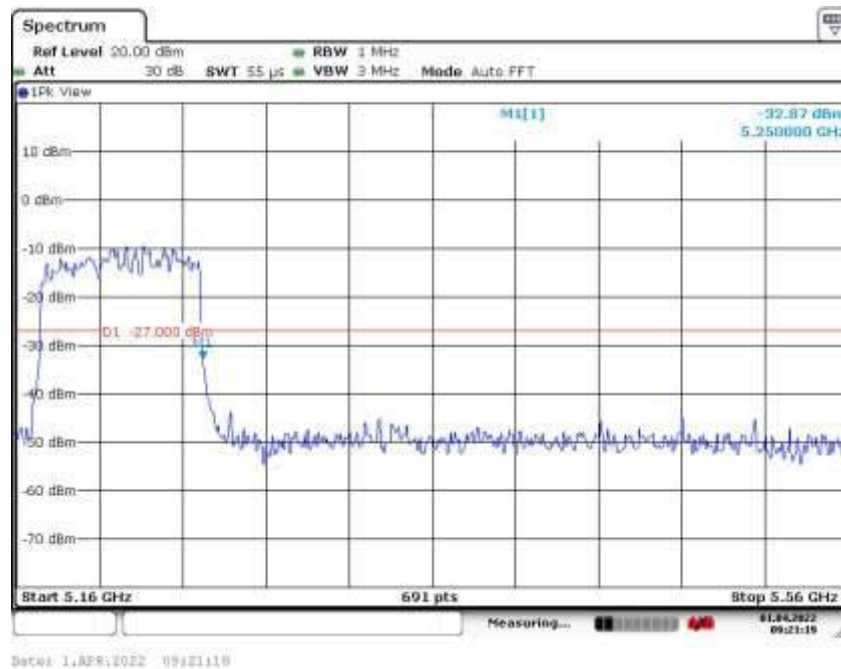
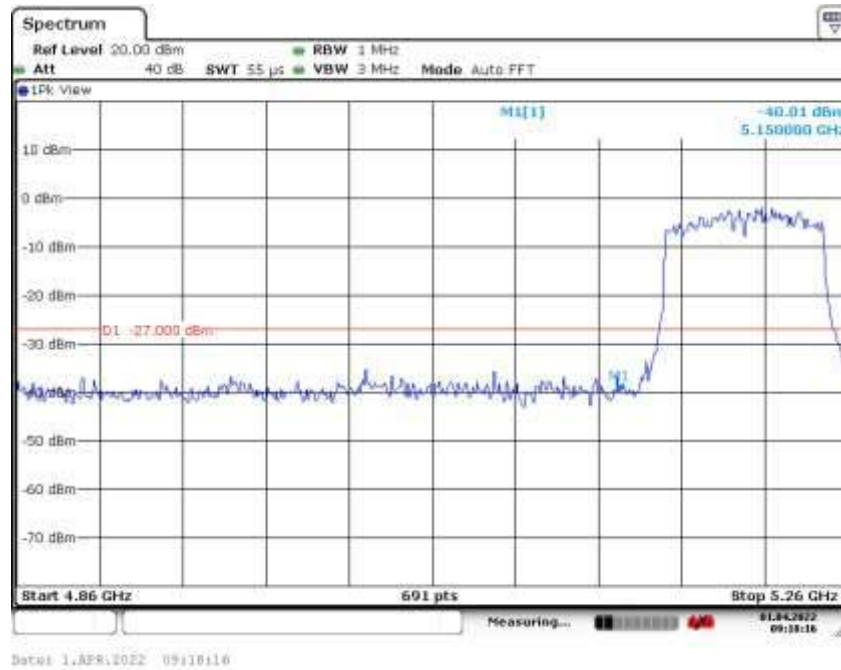


802.11ac(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



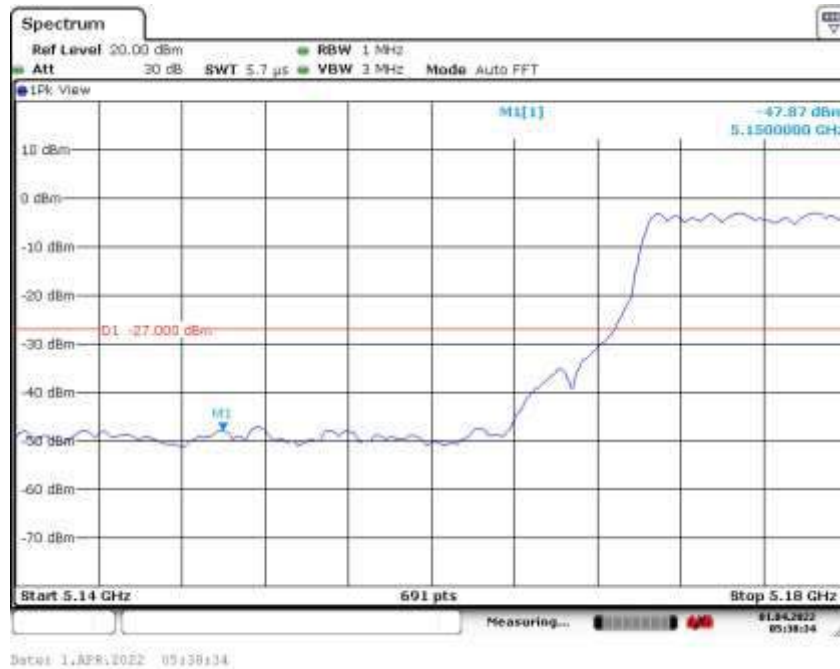
Report No.: AAEMT/EMC/220321-01-06

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

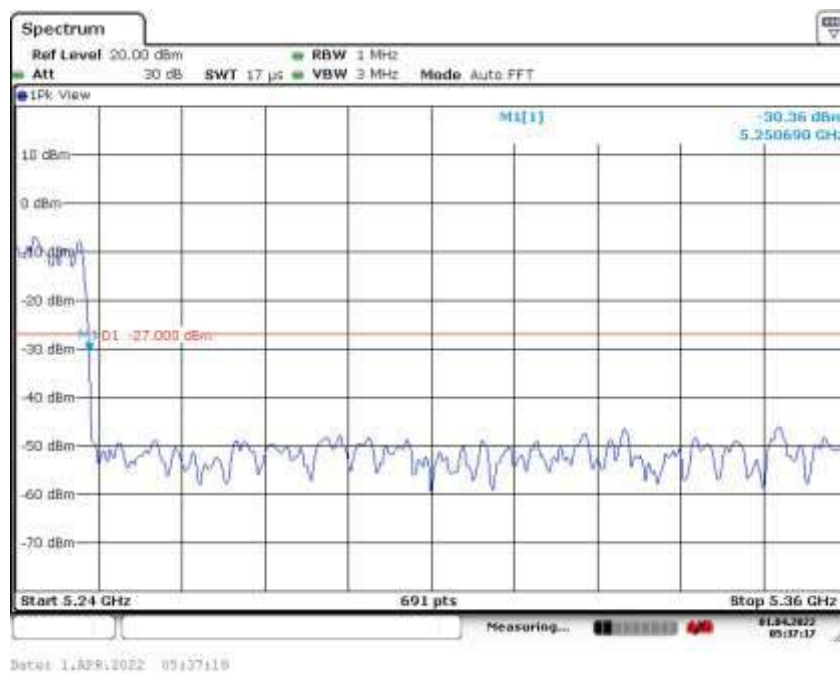


Report No.: AAEMT/EMC/220321-01-06

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

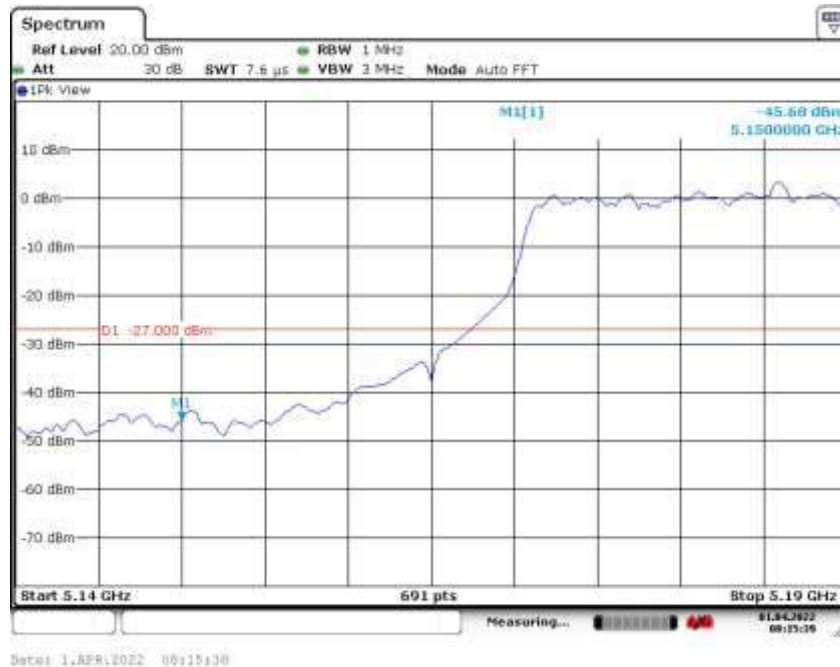


802.11ax(20M) (5.15GHz-5.25GHz)
The High Channel 48: 5240MHz

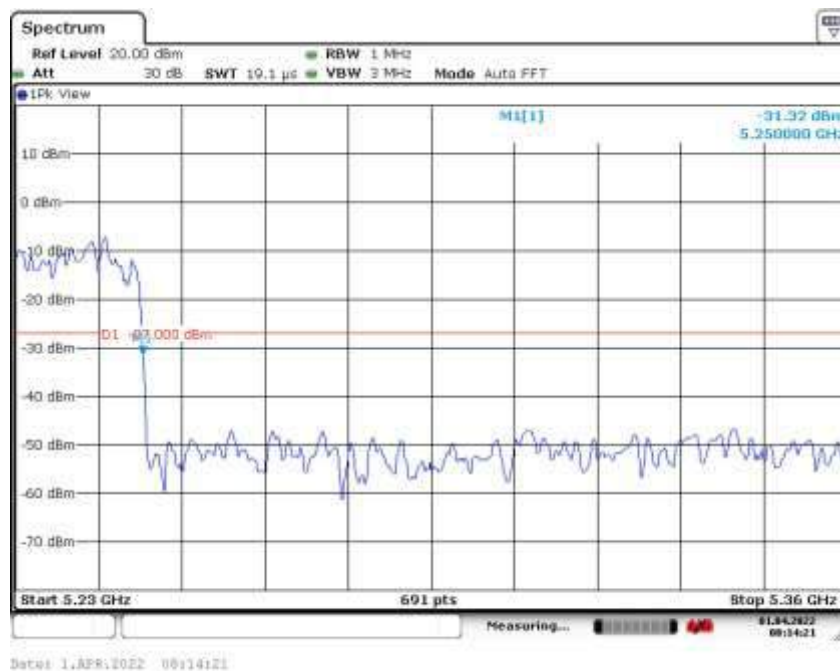


Report No.: AAEMT/EMC/220321-01-06

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

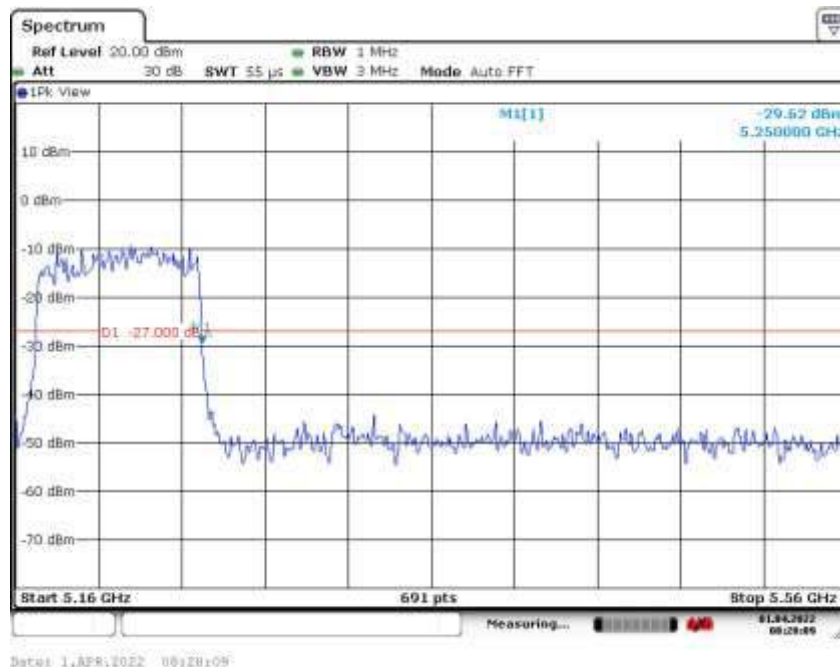
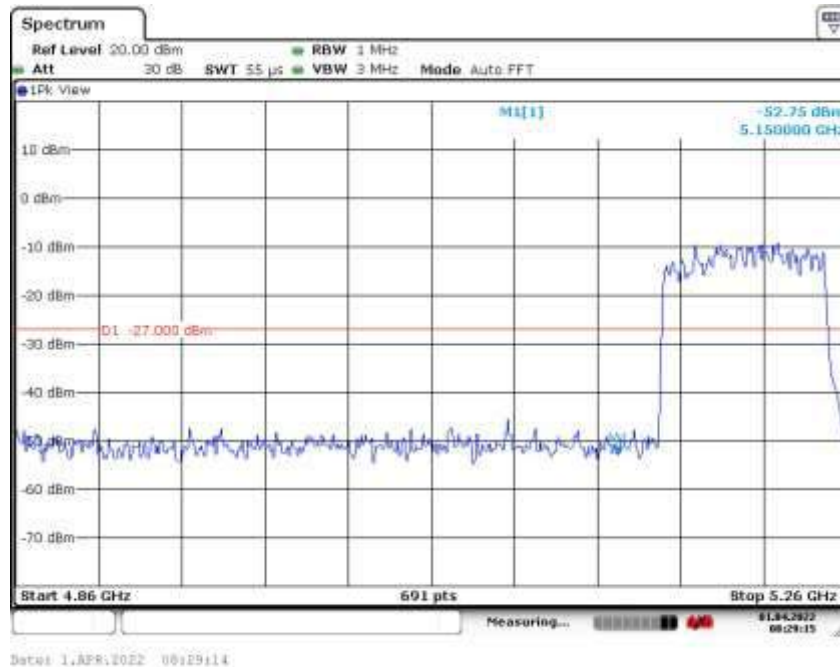


802.11ax(40M) (5.15GHz-5.25GHz)
The High Channel 46: 5230MHz



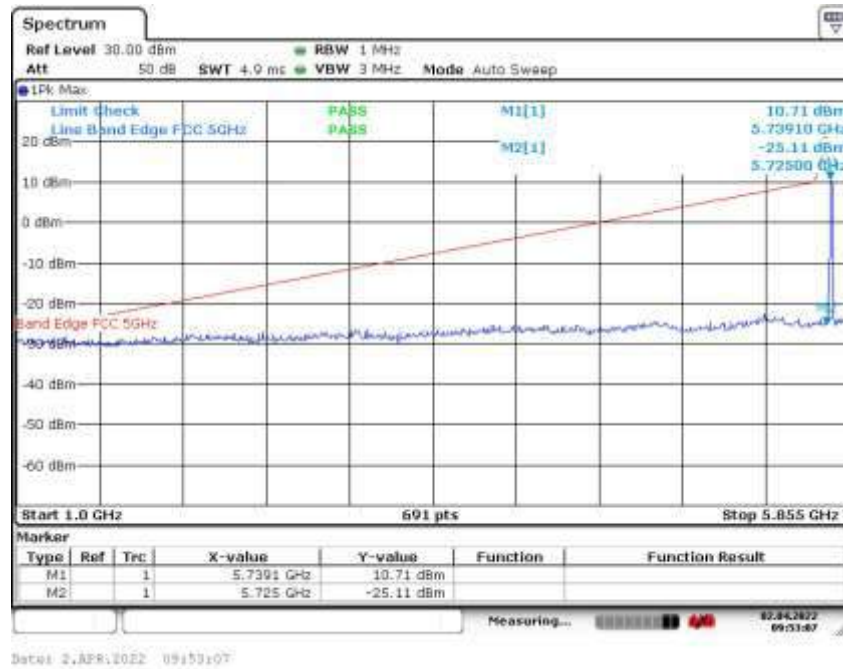
Report No.: AAEMT/EMC/220321-01-06

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

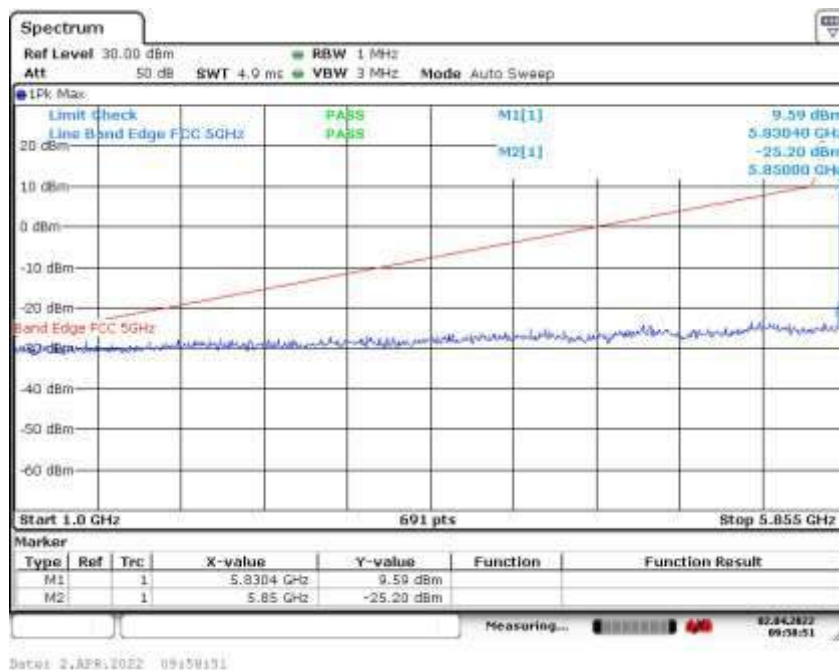


TEST RESULT ANT 5GM_0

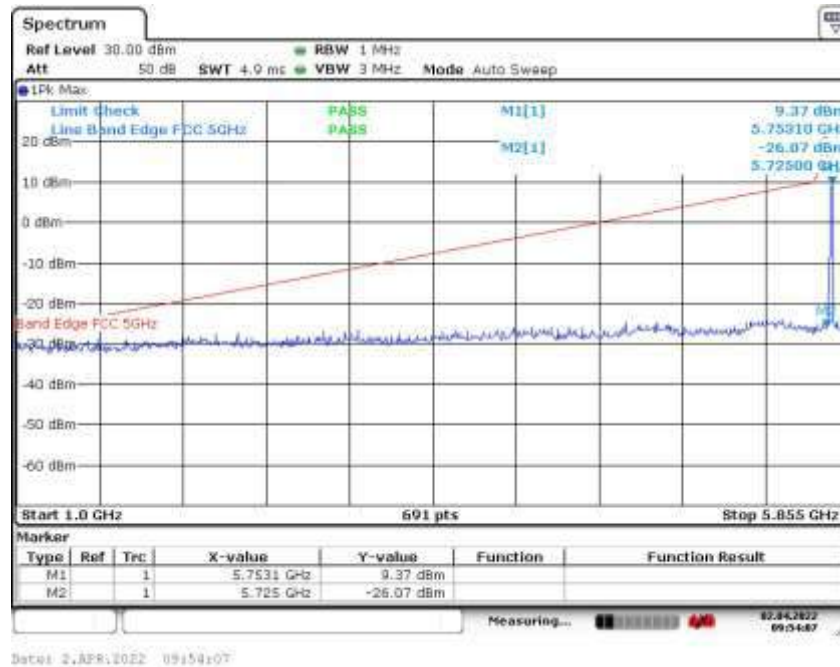
802.11a (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



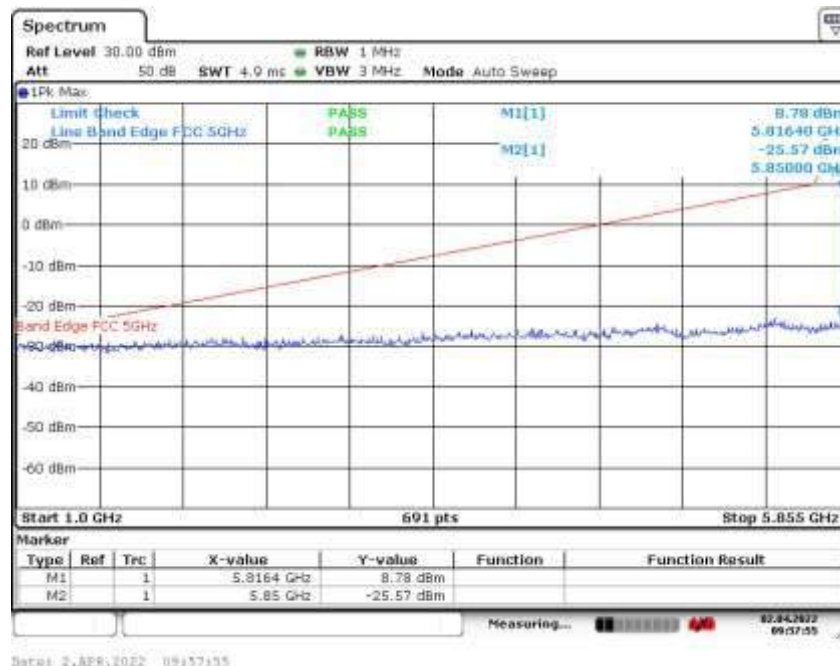
802.11a (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



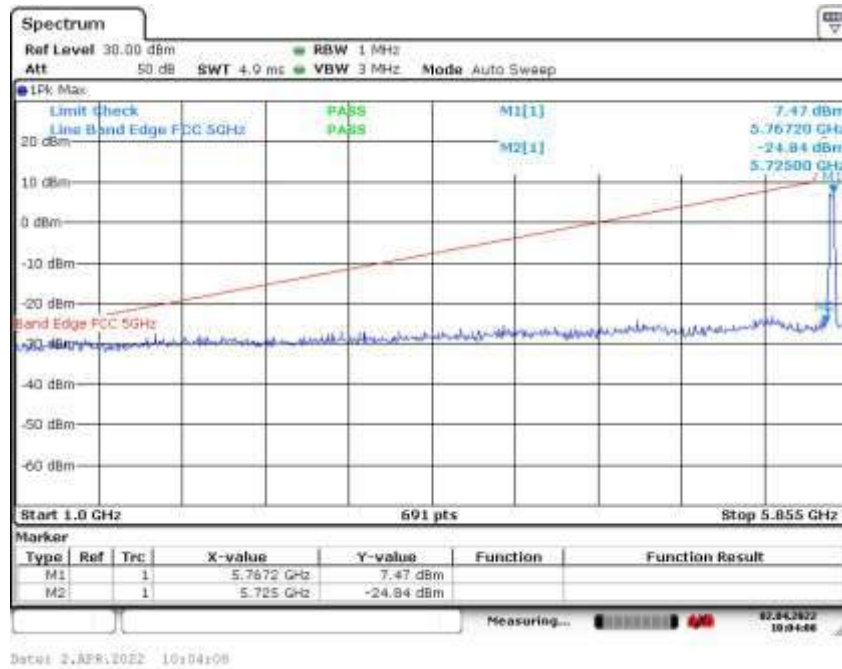
802.11n(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



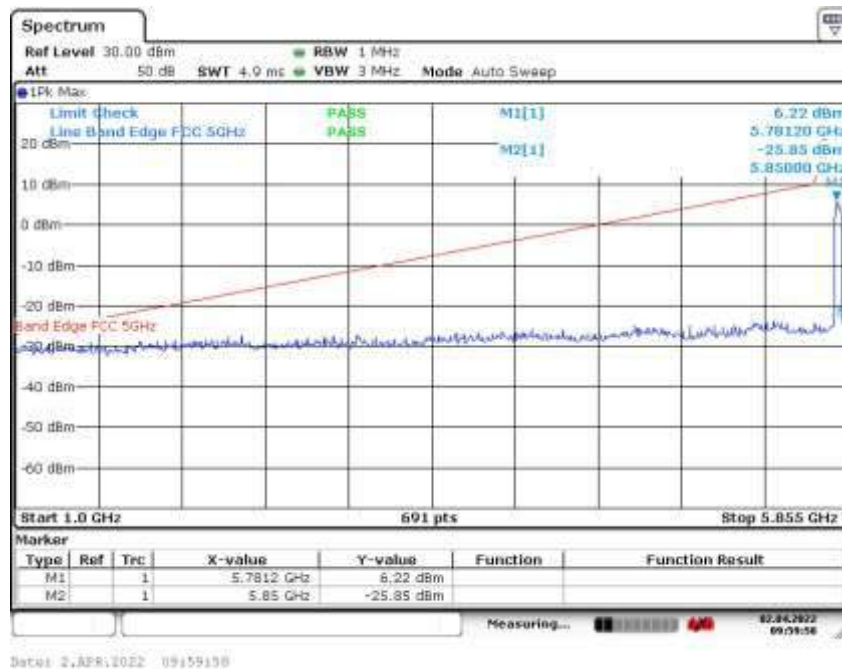
802.11n(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



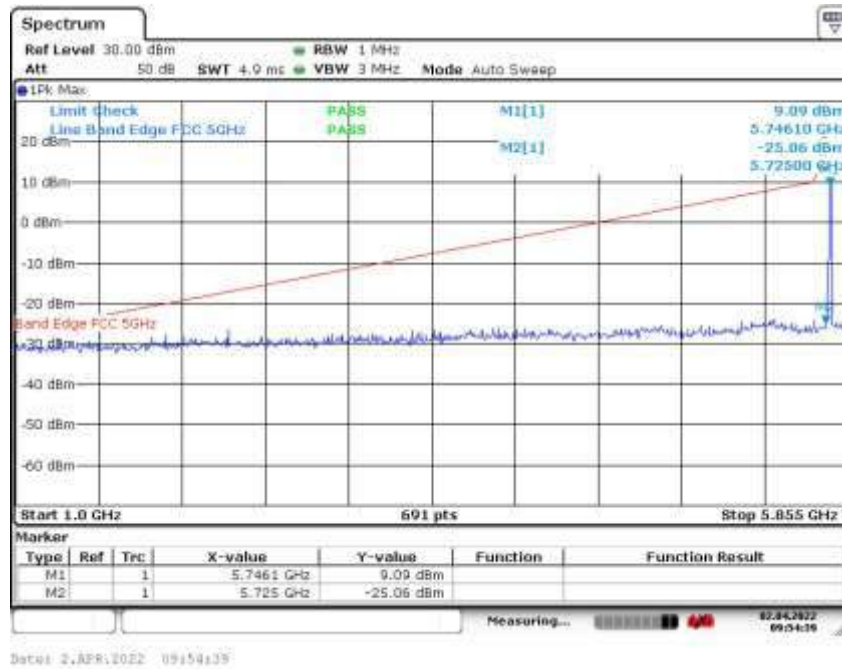
802.11n(40M) (5.725GHz-5.85GHz)
The Lowest Channel 151: 5755MHz



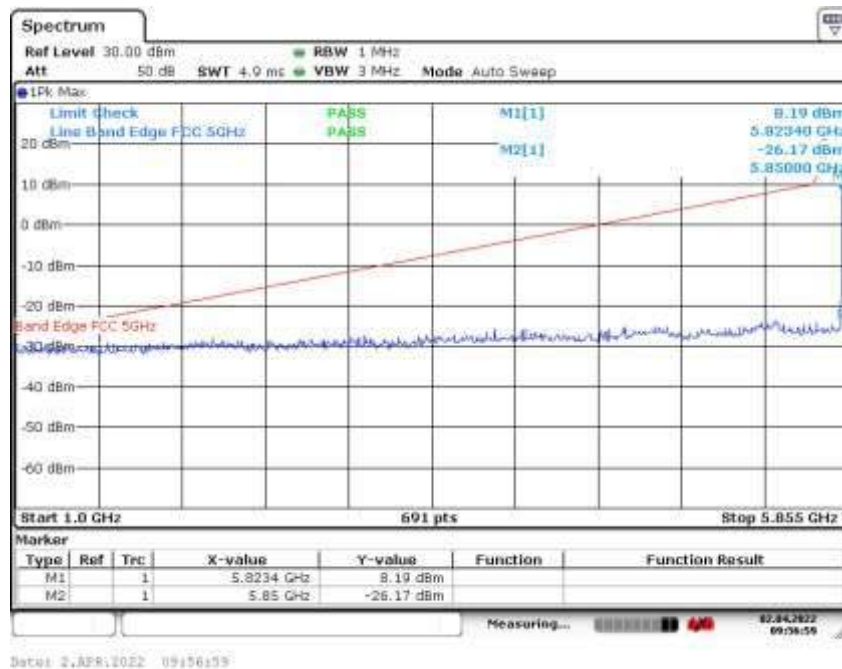
802.11n(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz



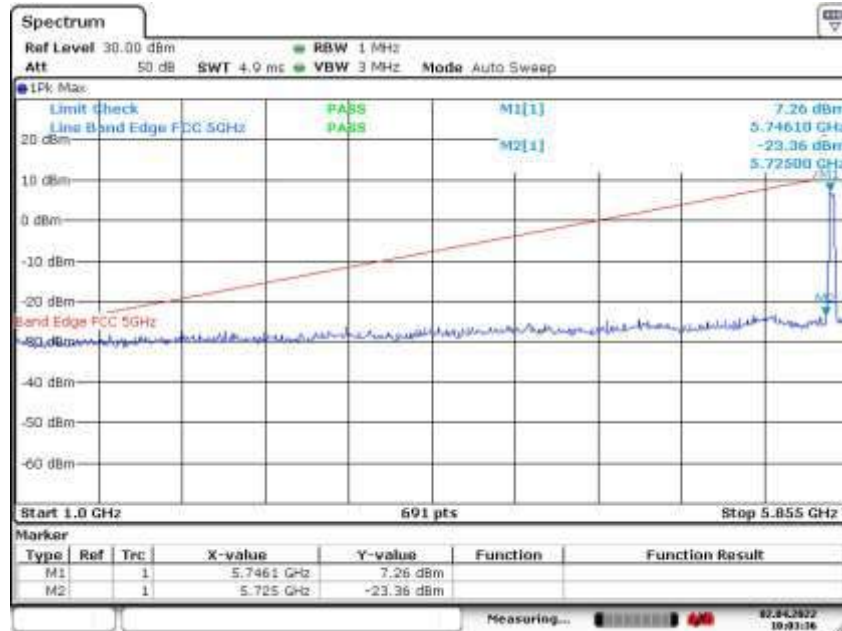
802.11ac(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



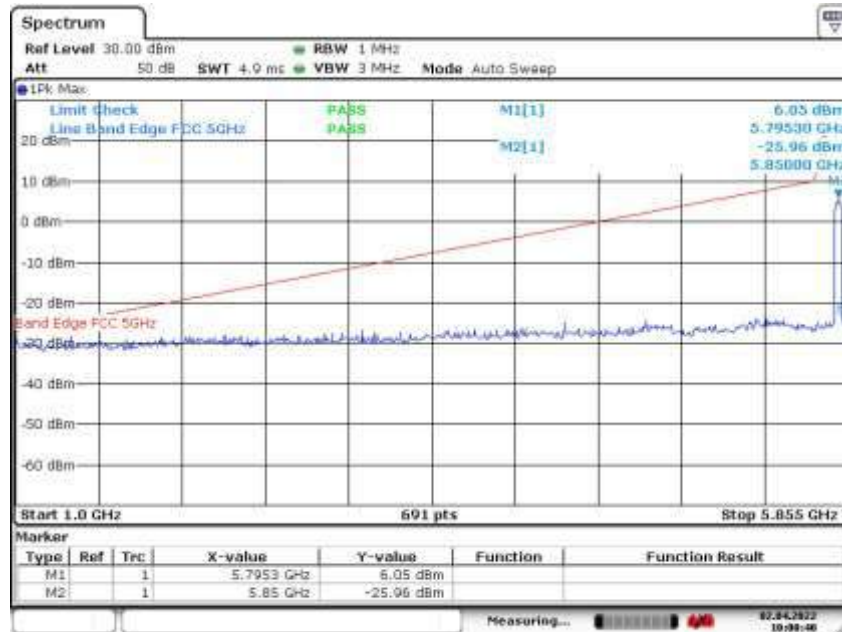
802.11ac(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



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

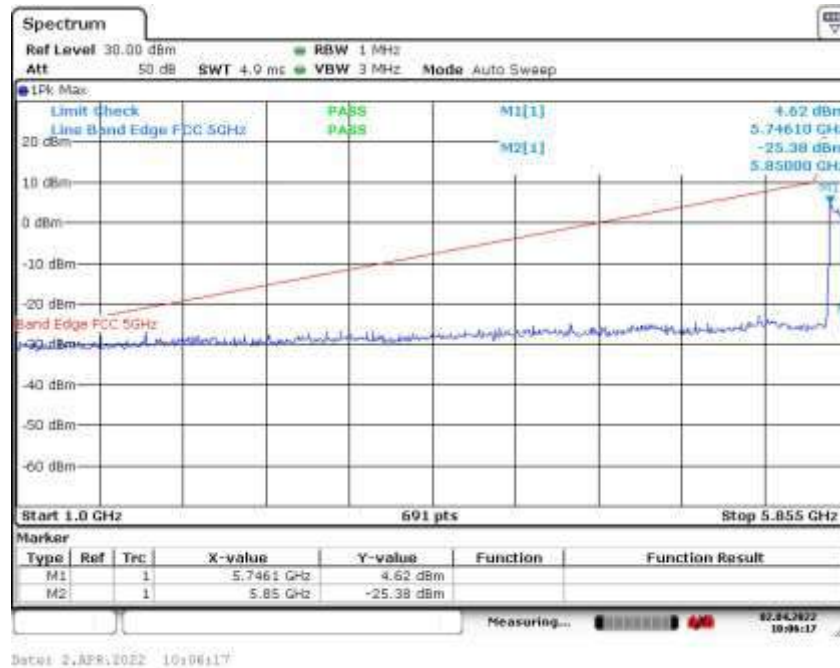


802.11ac(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz



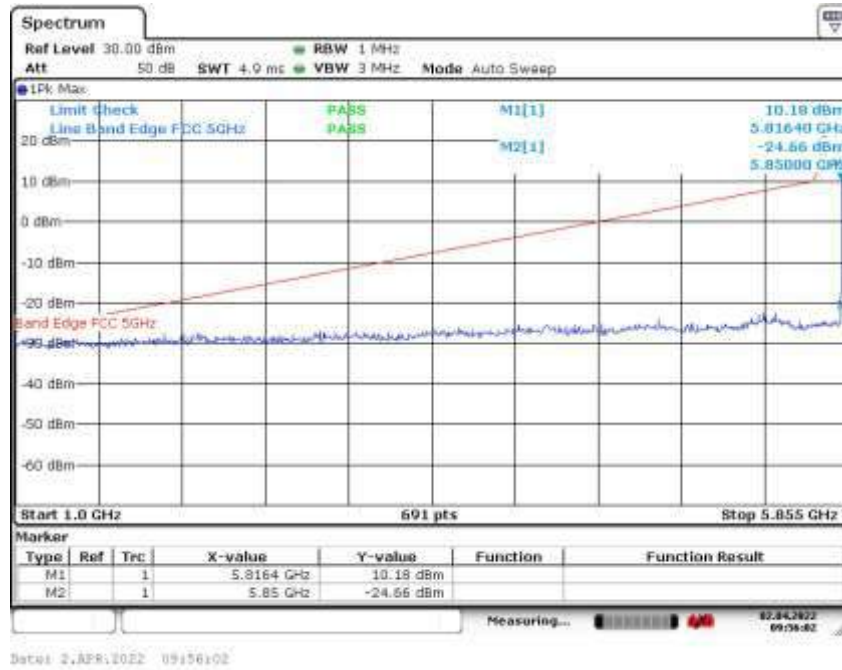
Report No.: AAEMT/EMC/220321-01-06

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

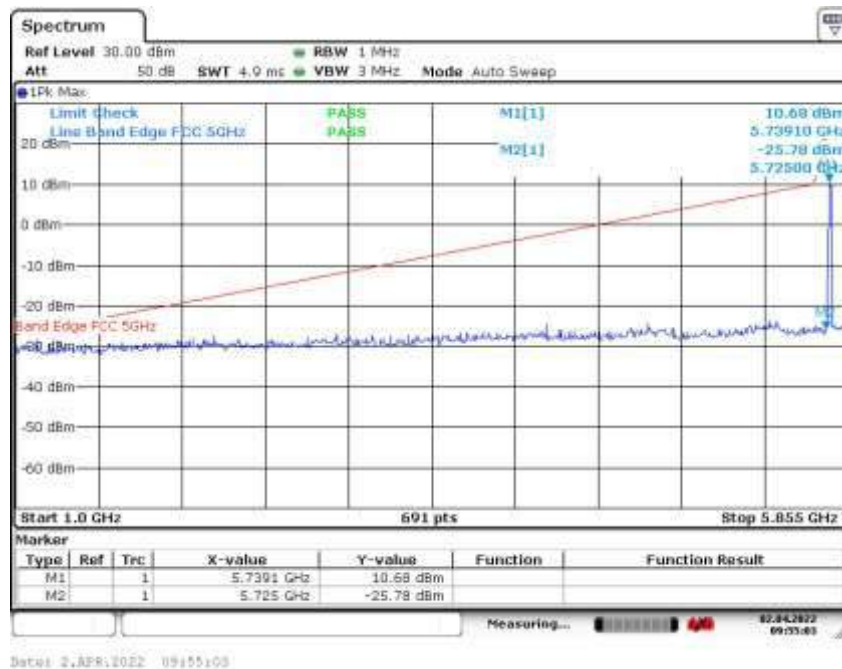


Report No.: AAEMT/EMC/220321-01-06

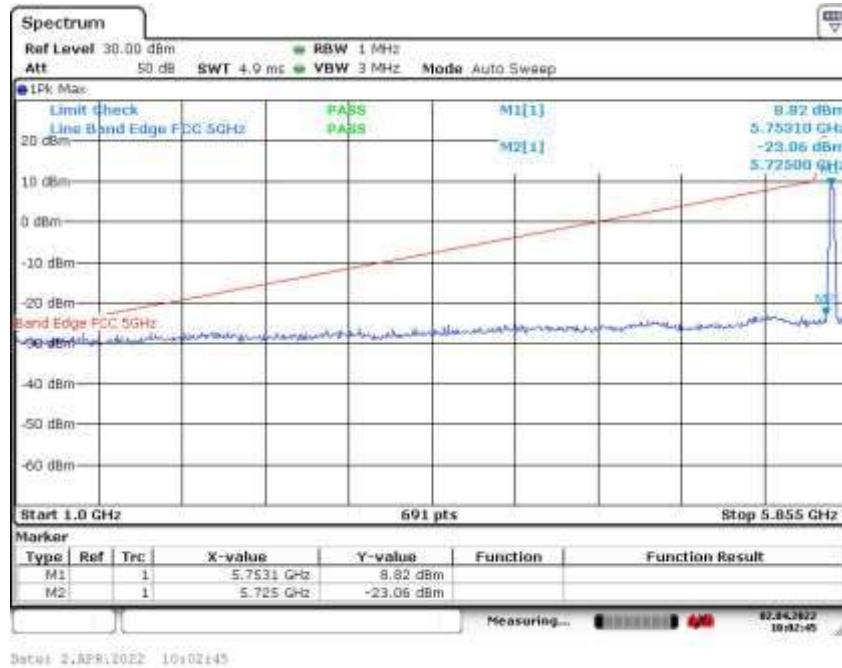
802.11ax(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



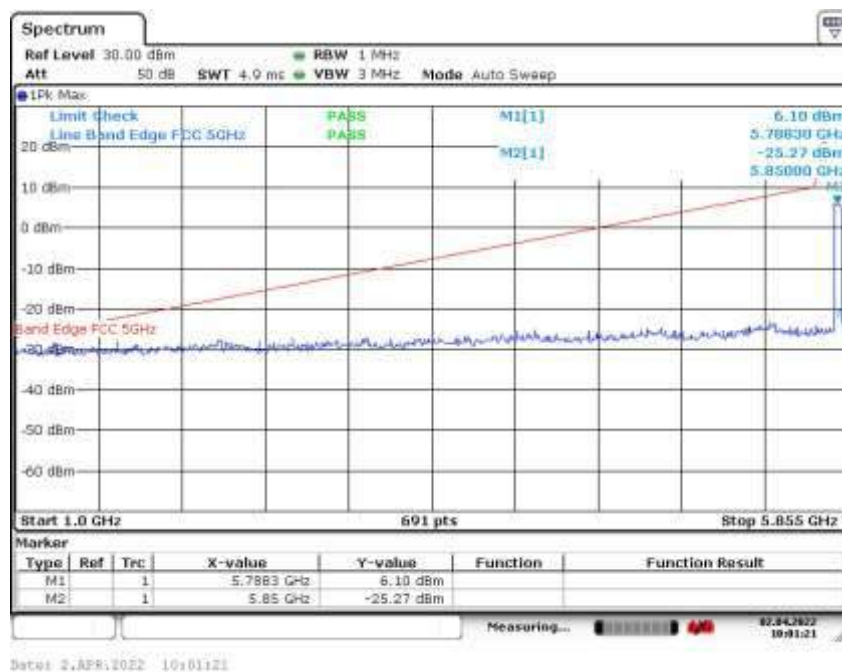
802.11ax(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



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

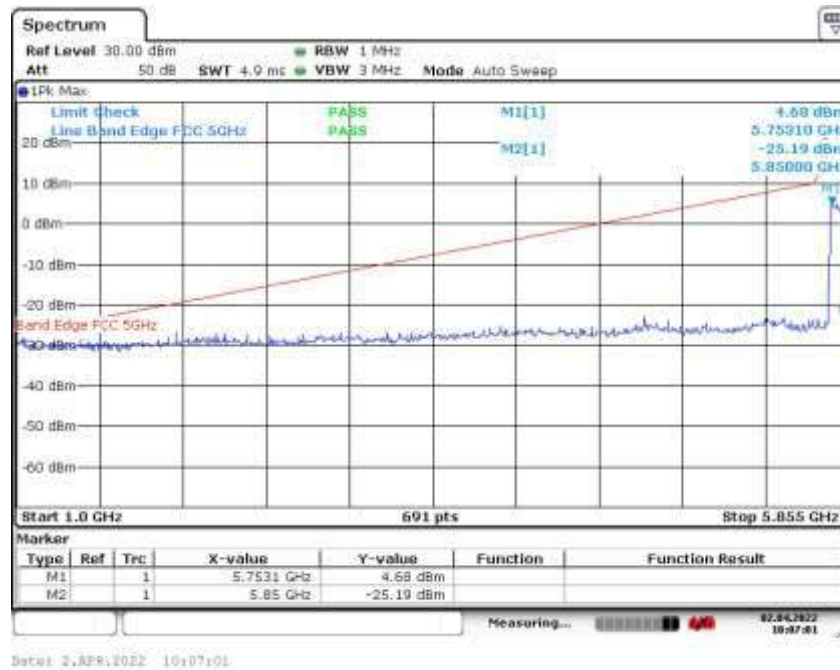


802.11ax(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz



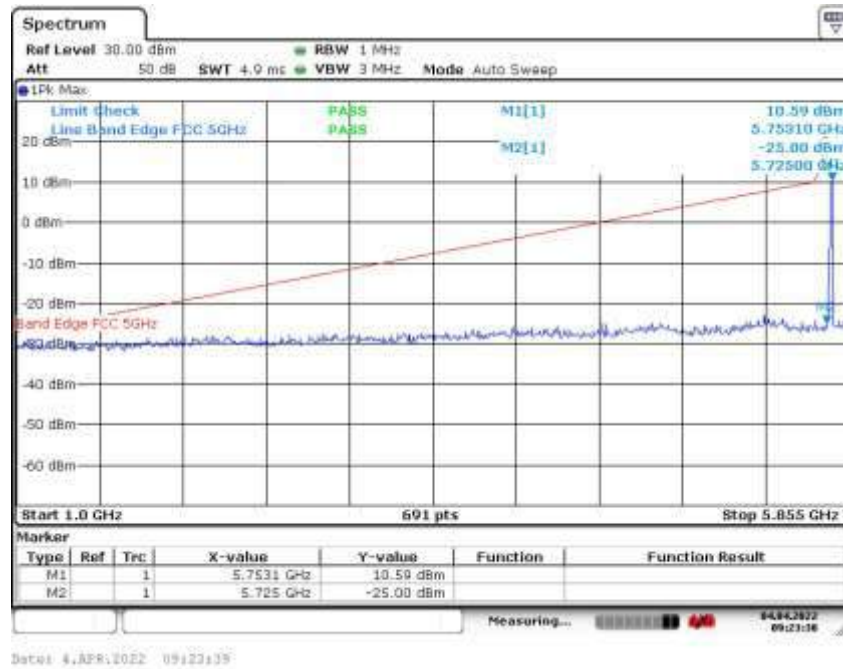
Report No.: AAEMT/EMC/220321-01-06

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

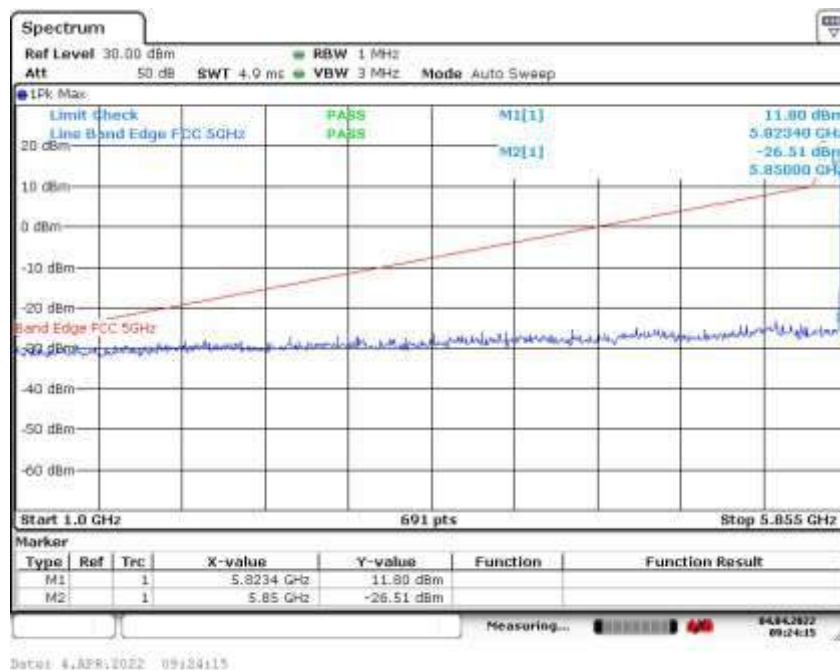


TEST RESULT ANT 5GM_1

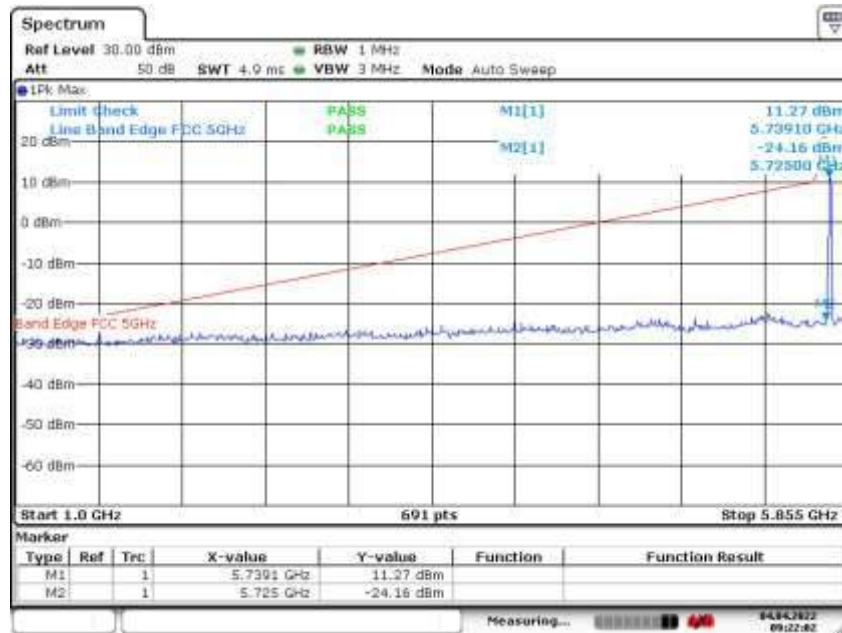
802.11a (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



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

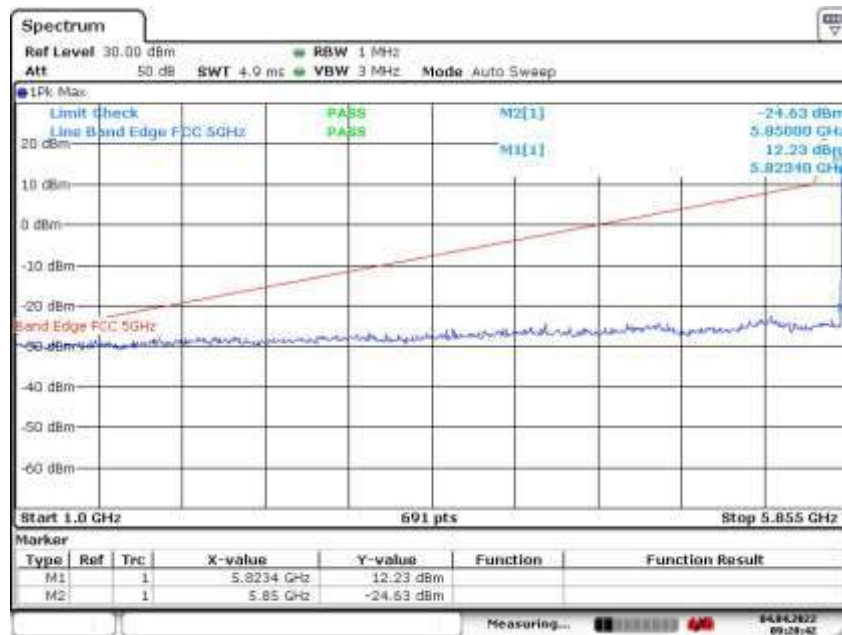


802.11n(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



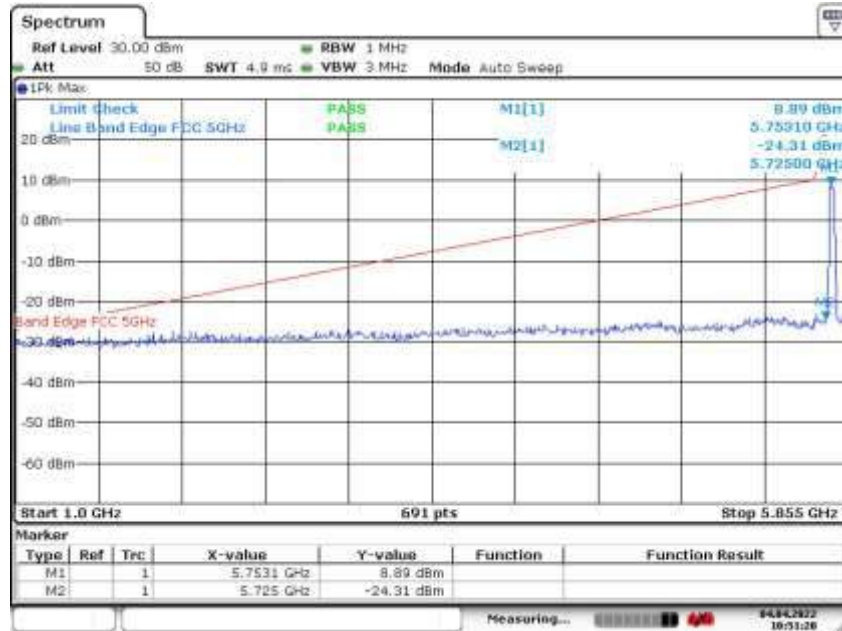
Date: 4.APR.2022 09:22:03

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



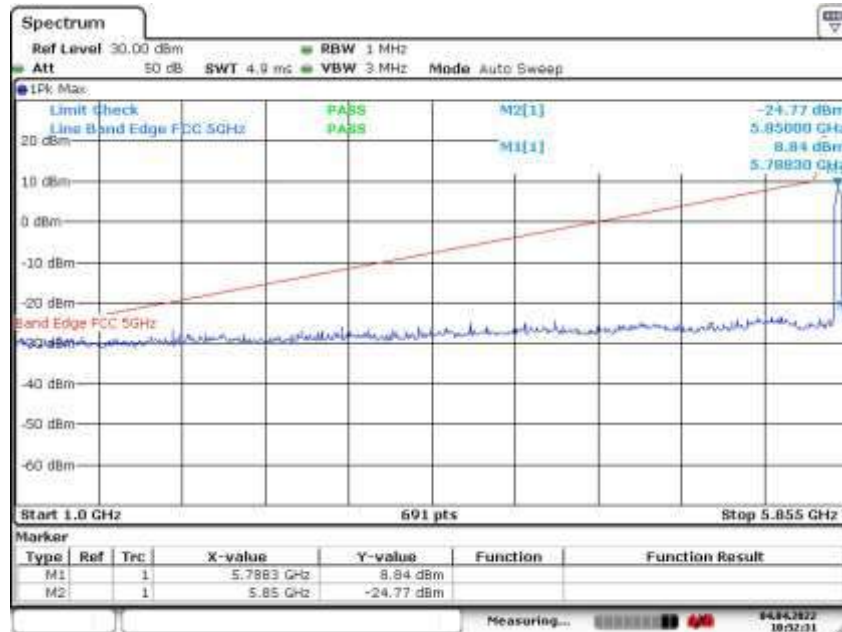
Date: 4.APR.2022 09:20:41

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



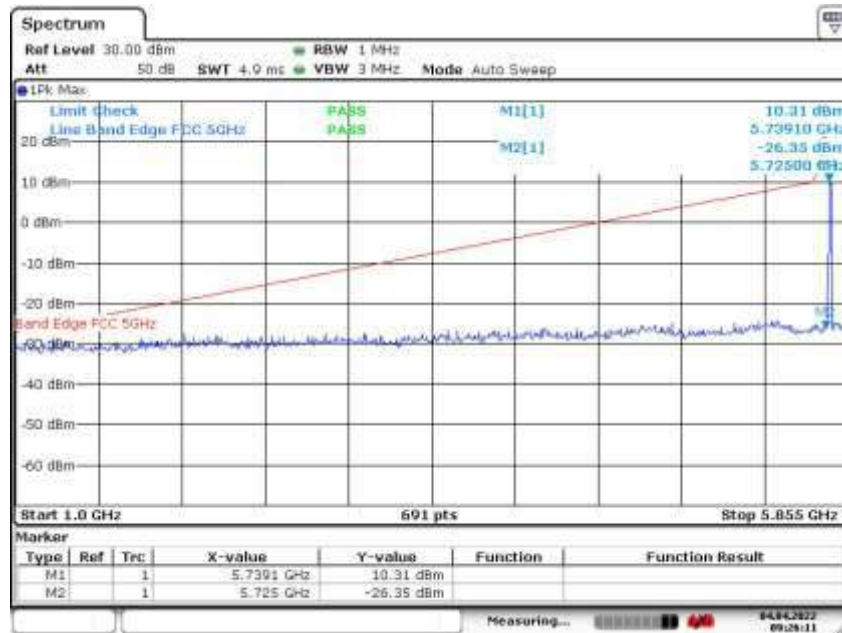
Date: 4.APR.2022 10:51:21

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



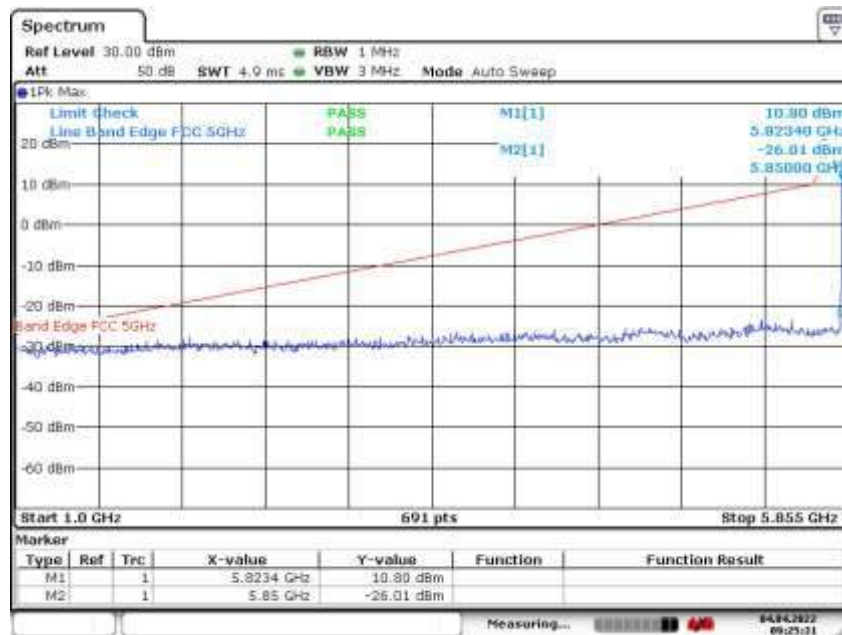
Date: 4.APR.2022 10:52:30

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



Date: 4.APR.2022 09:26:12

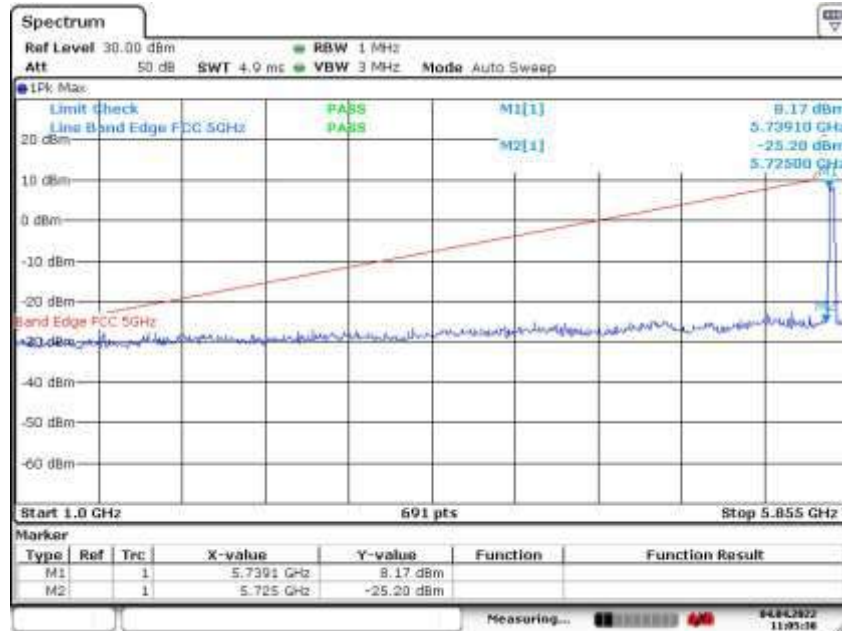
802.11ac(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



Date: 4.APR.2022 09:25:31

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

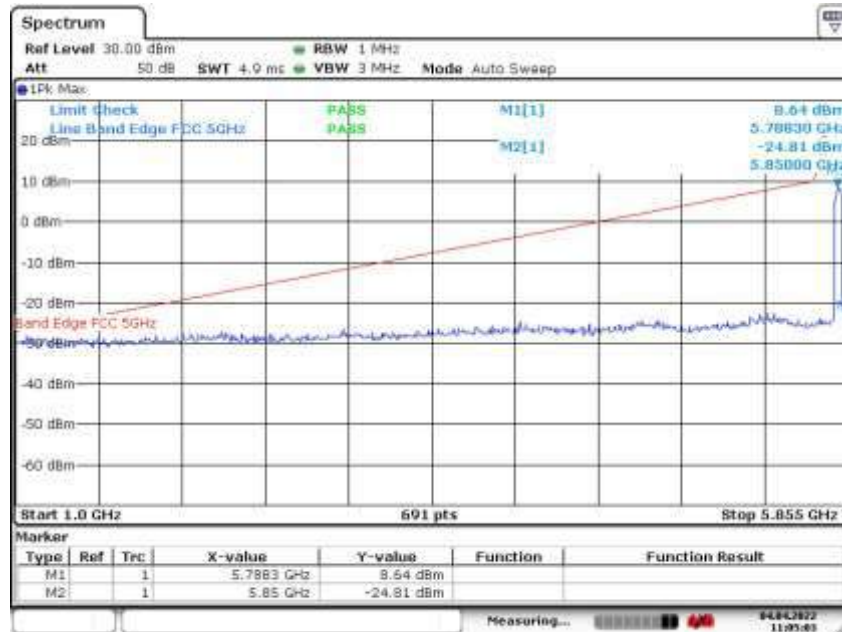
The Lowest Channel 151: 5755MHz



Date: 4.APR.2022 11:05:38

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

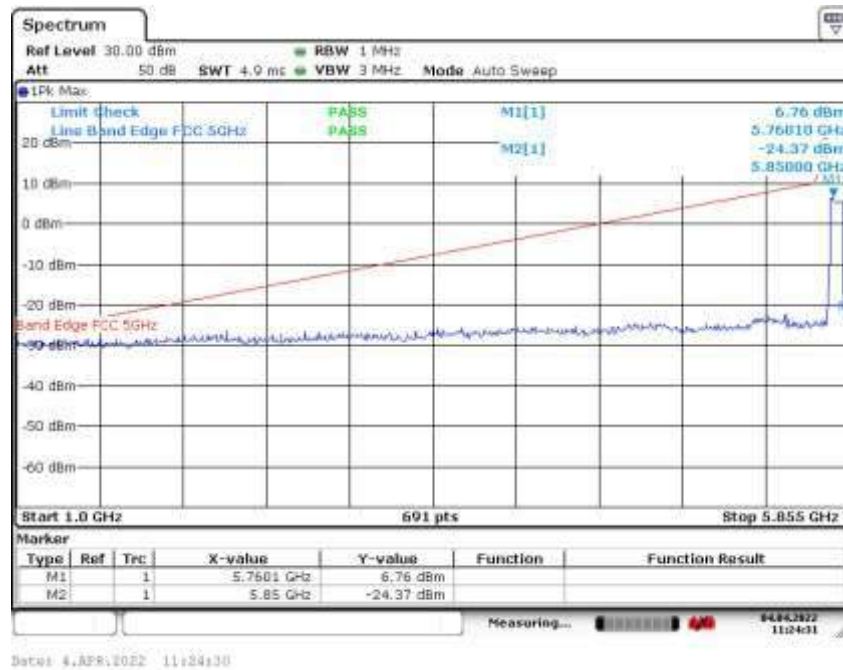
The High Channel 159: 5795MHz



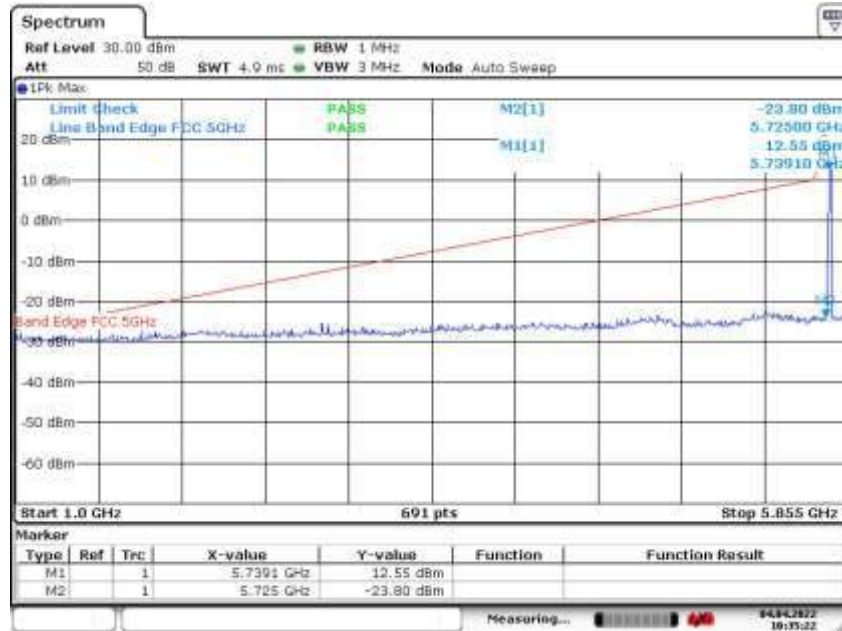
Date: 4.APR.2022 11:05:03

Report No.: AAEMT/EMC/220321-01-06

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

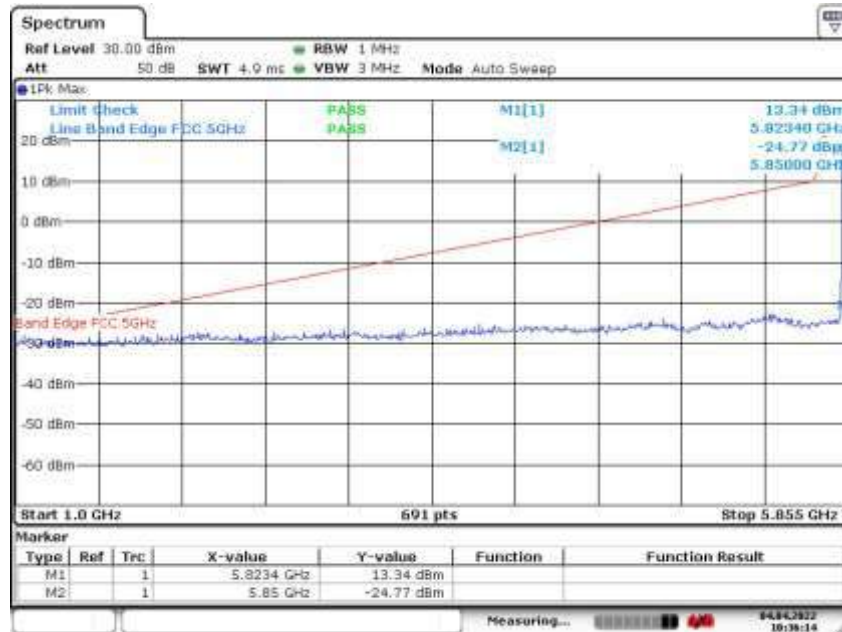


**802.11ax(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz**



Date: 4.APR.2022 10:05:21

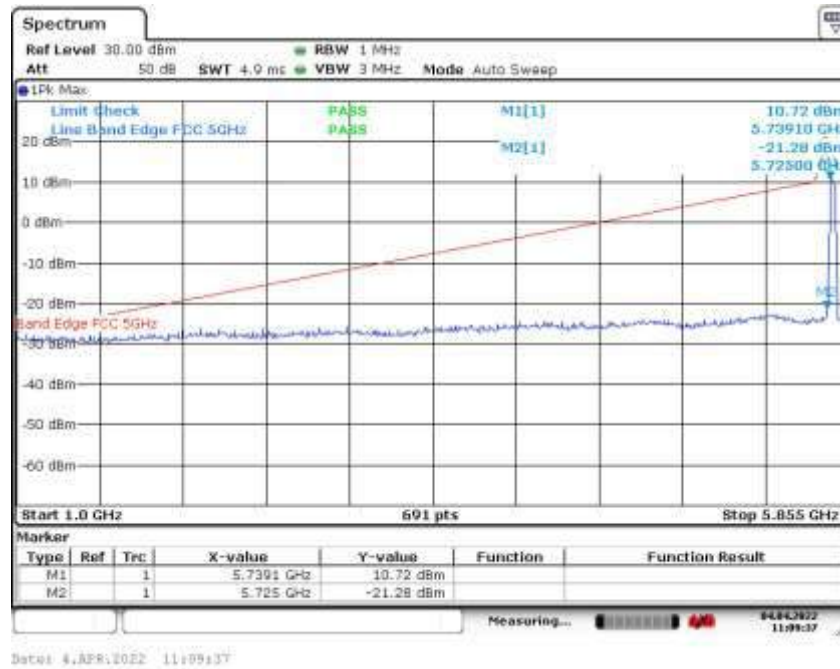
**802.11ax(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz**



Date: 4.APR.2022 10:06:14

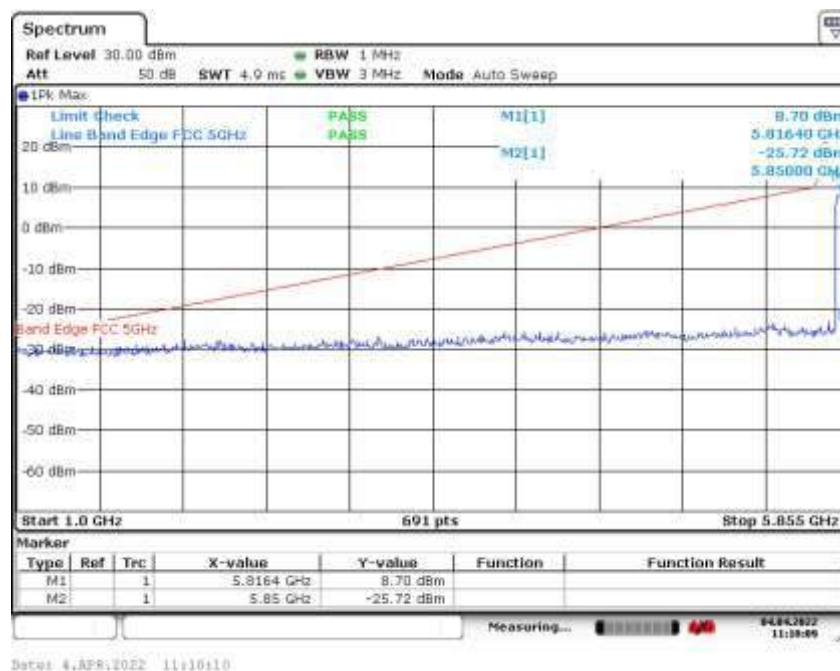
802.11ax(40M) (5.725GHz-5.85GHz)

The Lowest Channel 151: 5755MHz



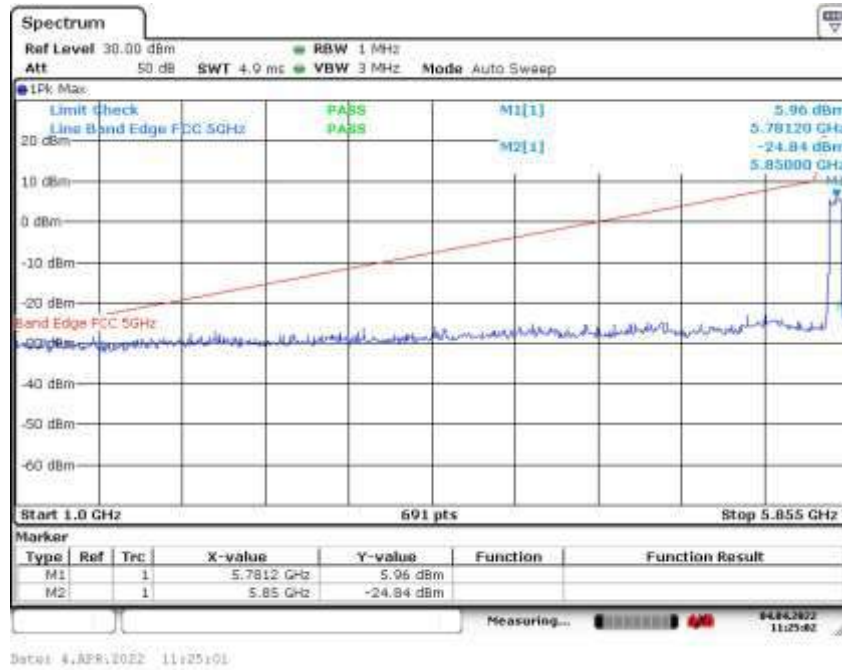
802.11ax(40M) (5.725GHz-5.85GHz)

The High Channel 159: 5795MHz



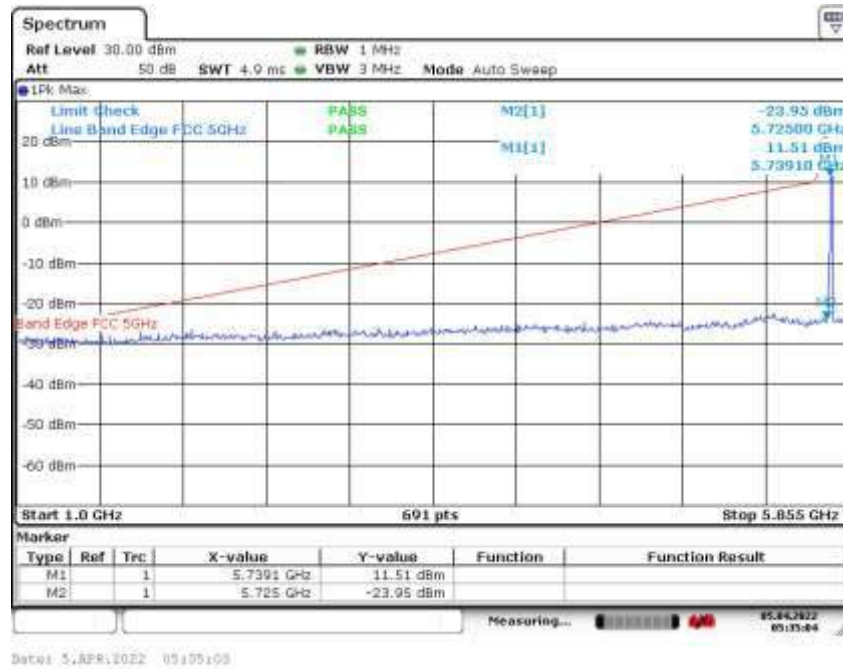
Report No.: AAEMT/EMC/220321-01-06

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

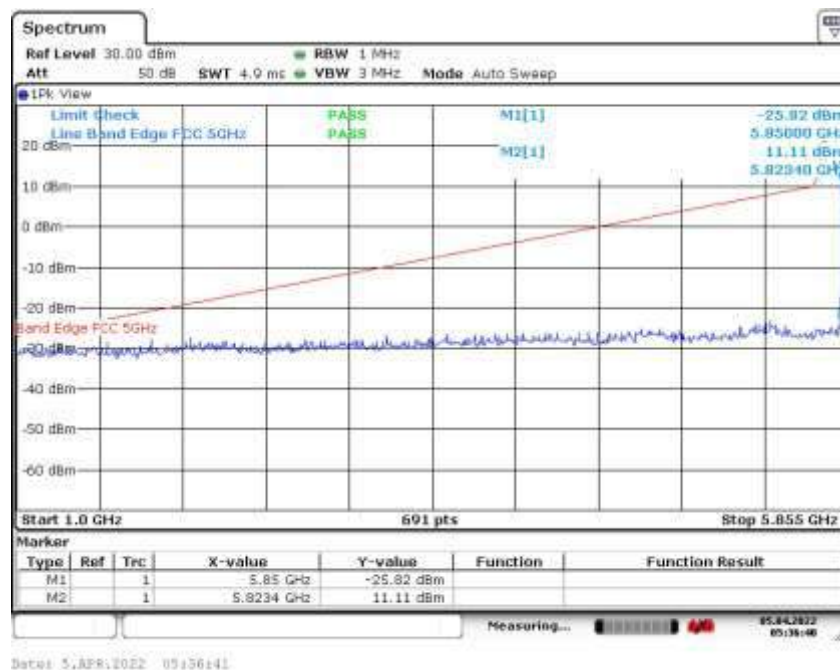


TEST RESULT ANT 5GM_2

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

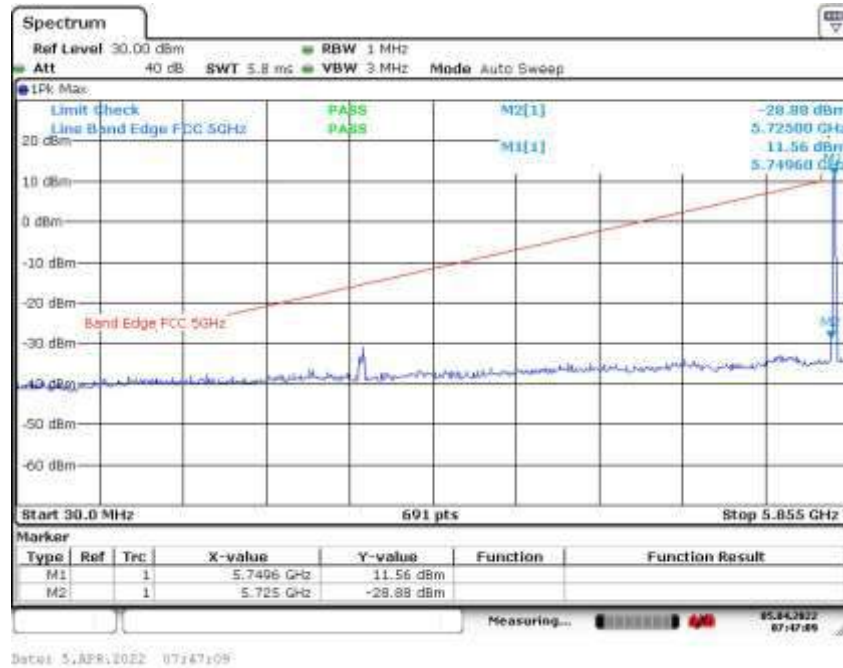


802.11a (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz

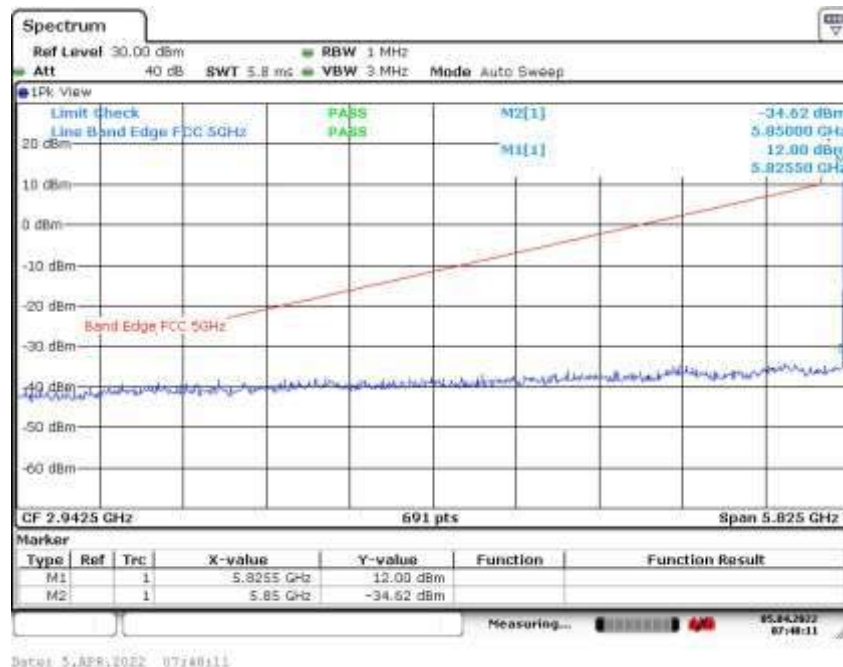


Report No.: AAEMT/EMC/220321-01-06

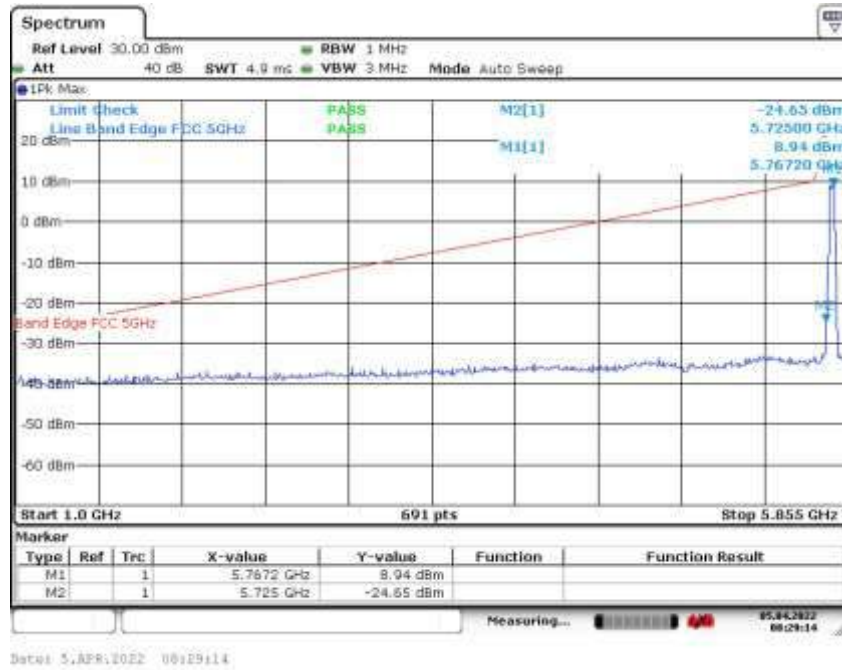
802.11n(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



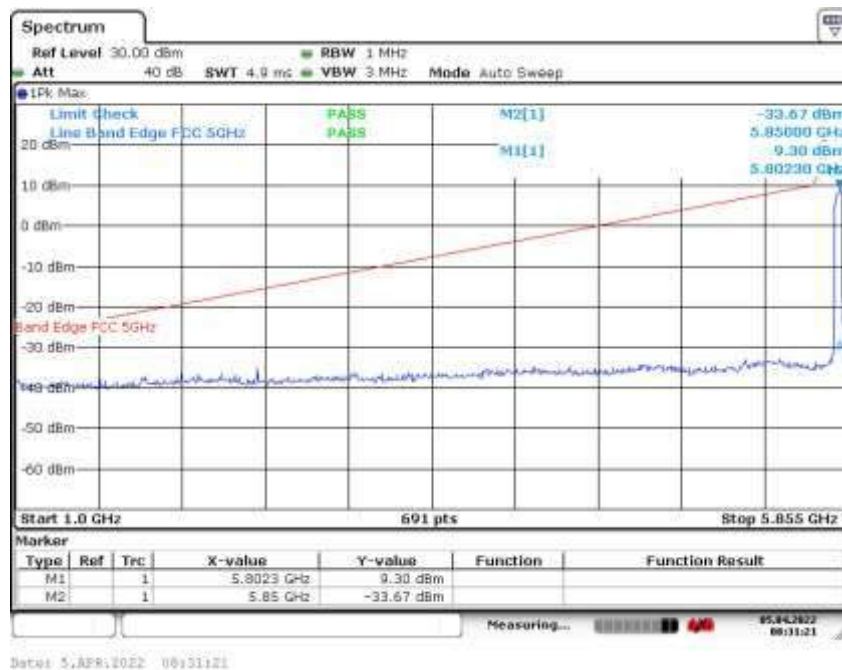
802.11n(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



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

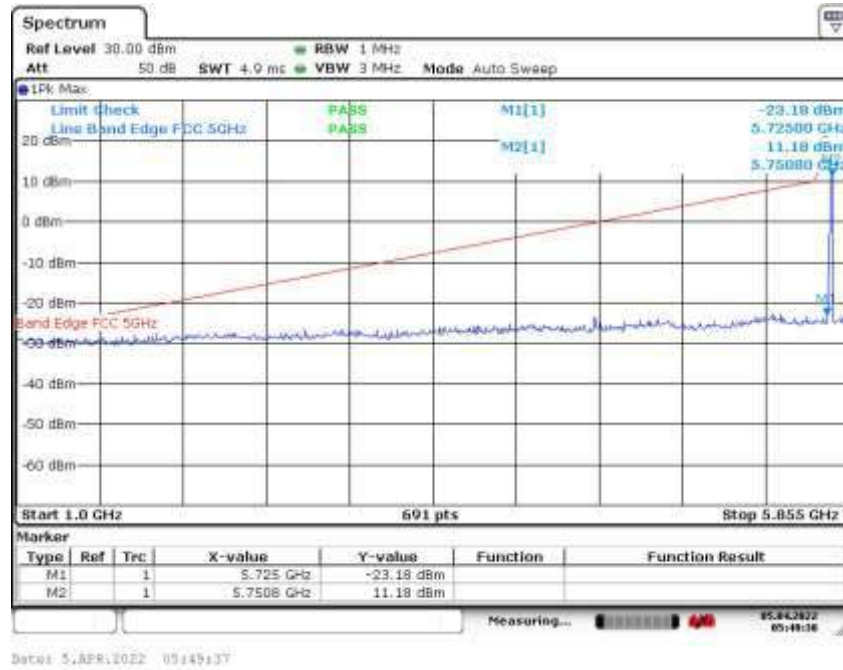


802.11n(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz

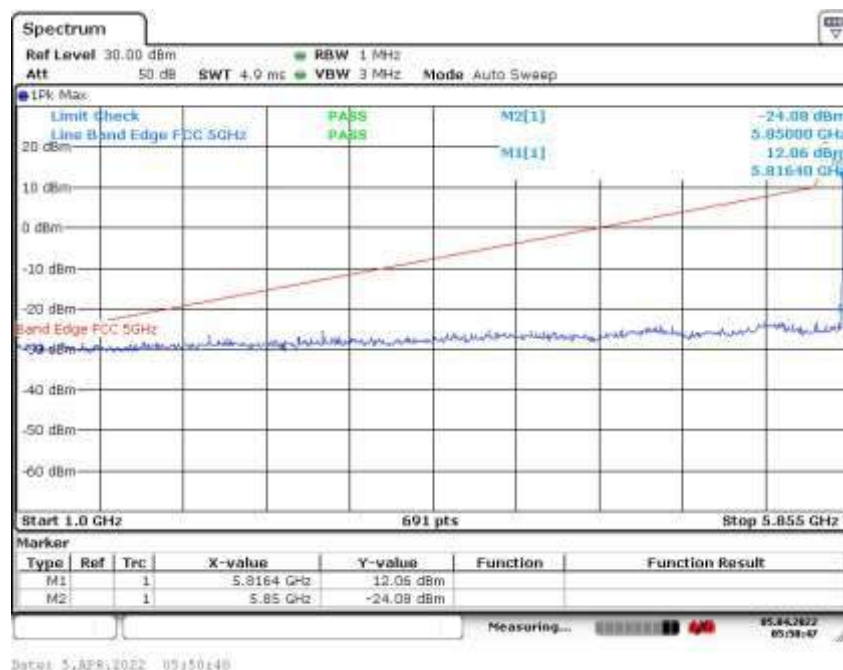


Report No.: AAEMT/EMC/220321-01-06

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

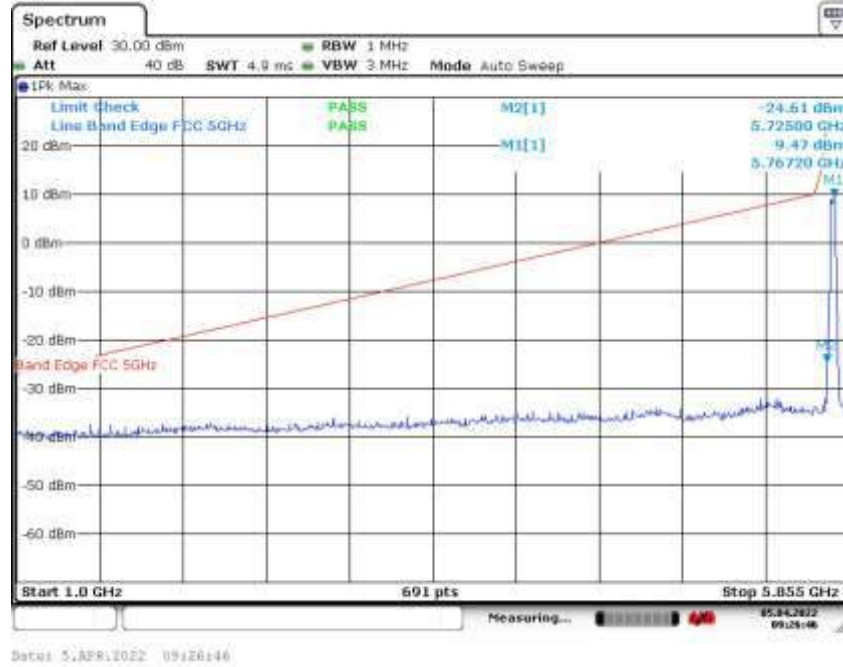


802.11ac(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



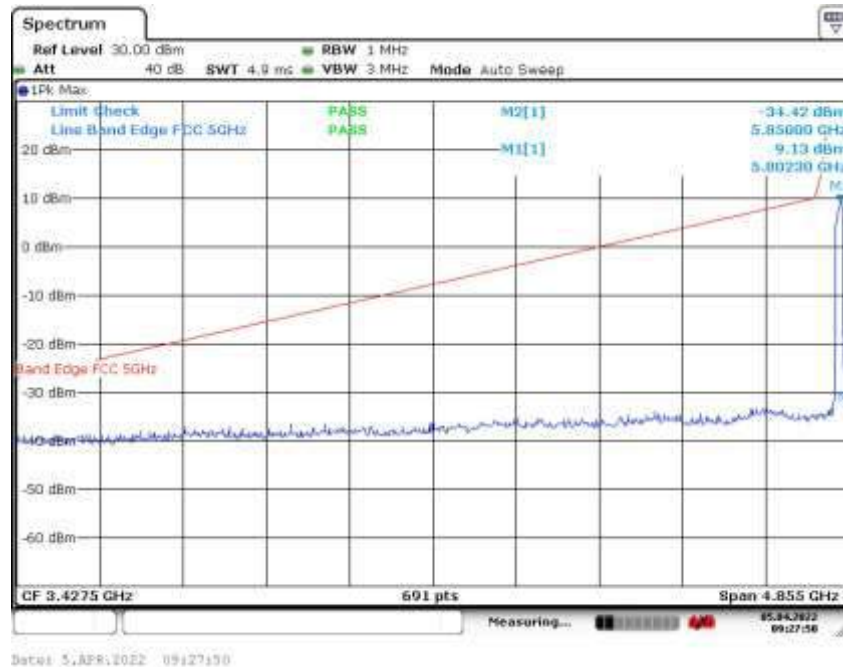
802.11ac(40M) (5.725GHz-5.85GHz)

The Lowest Channel 151: 5755MHz



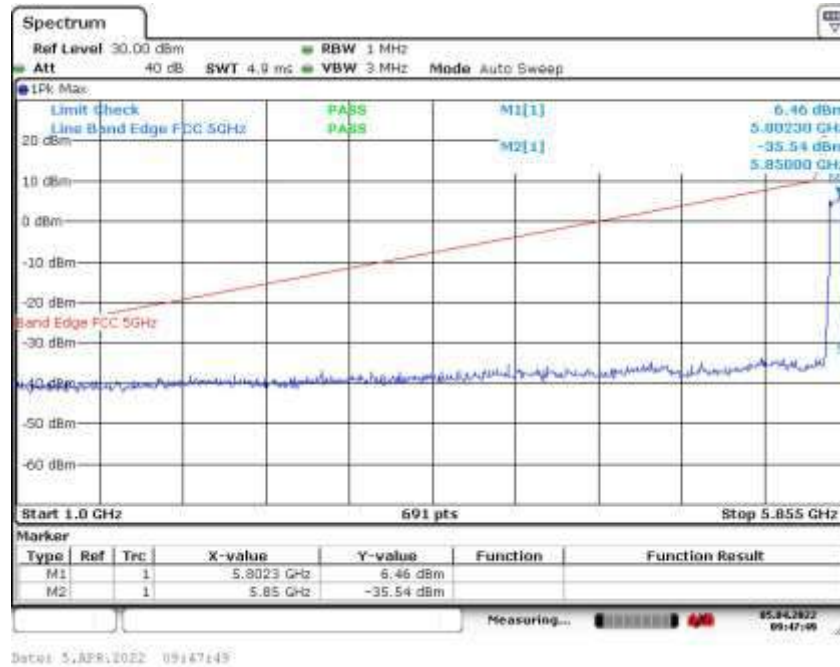
802.11ac(40M) (5.725GHz-5.85GHz)

The High Channel 159: 5795MHz



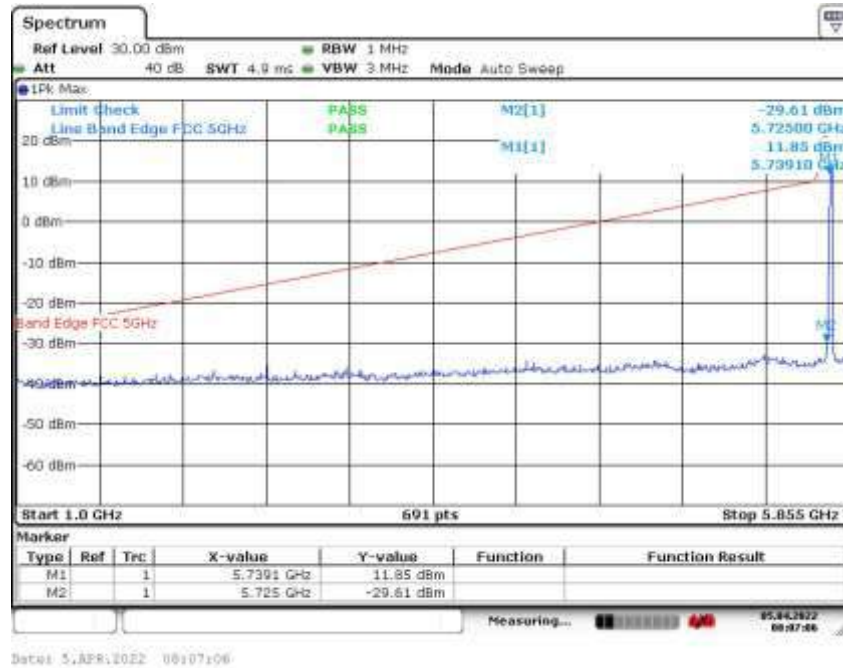
Report No.: AAEMT/EMC/220321-01-06

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

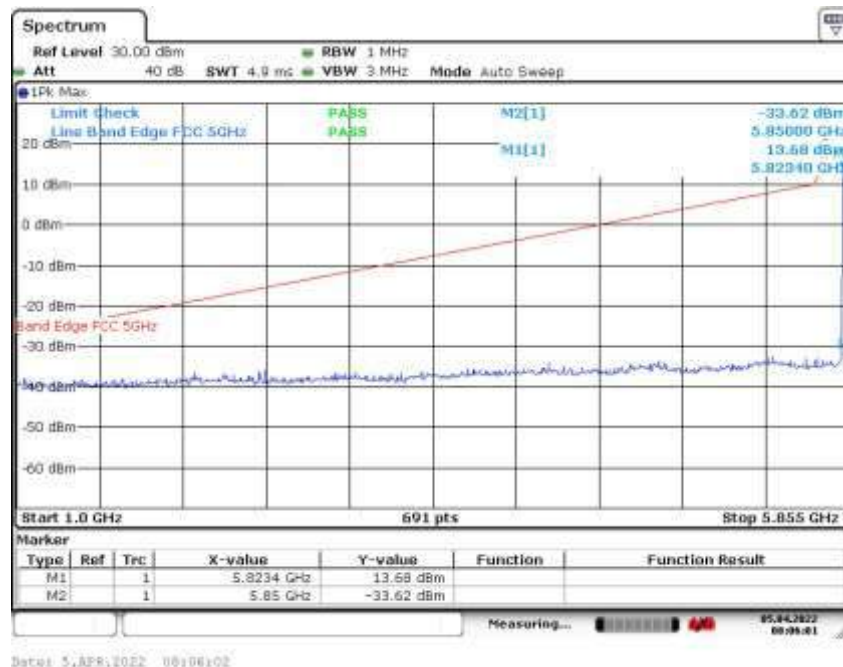


Report No.: AAEMT/EMC/220321-01-06

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

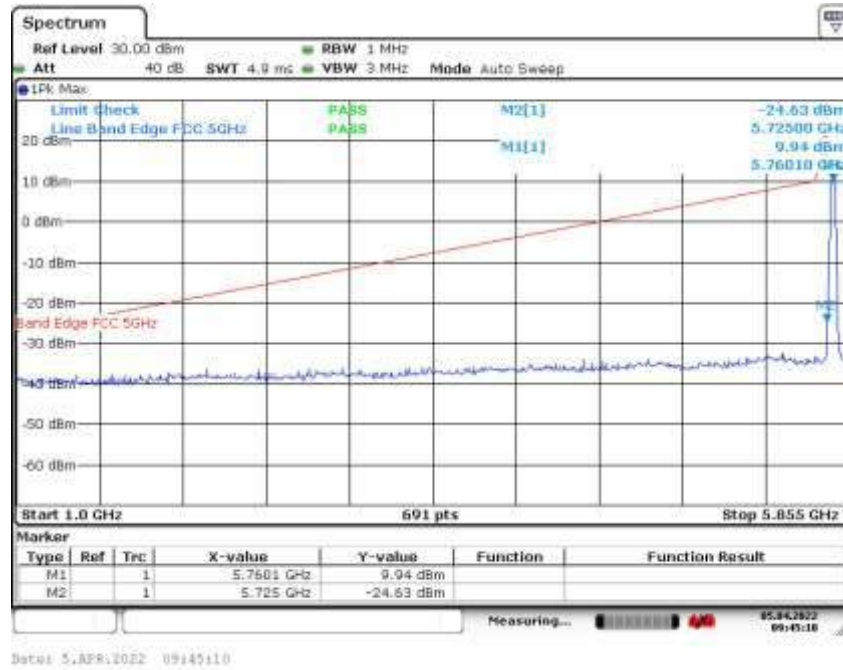


802.11ax(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz

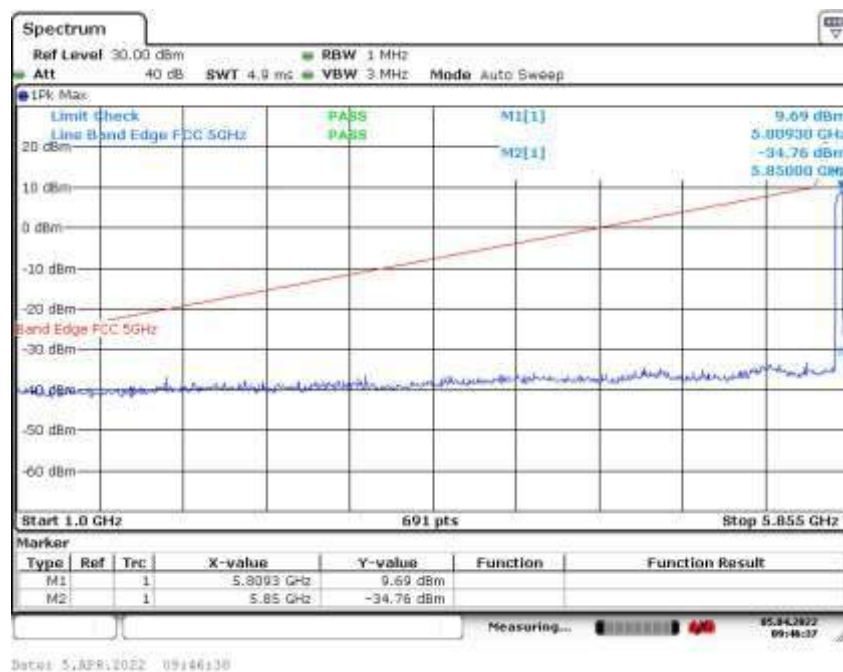


Report No.: AAEMT/EMC/220321-01-06

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

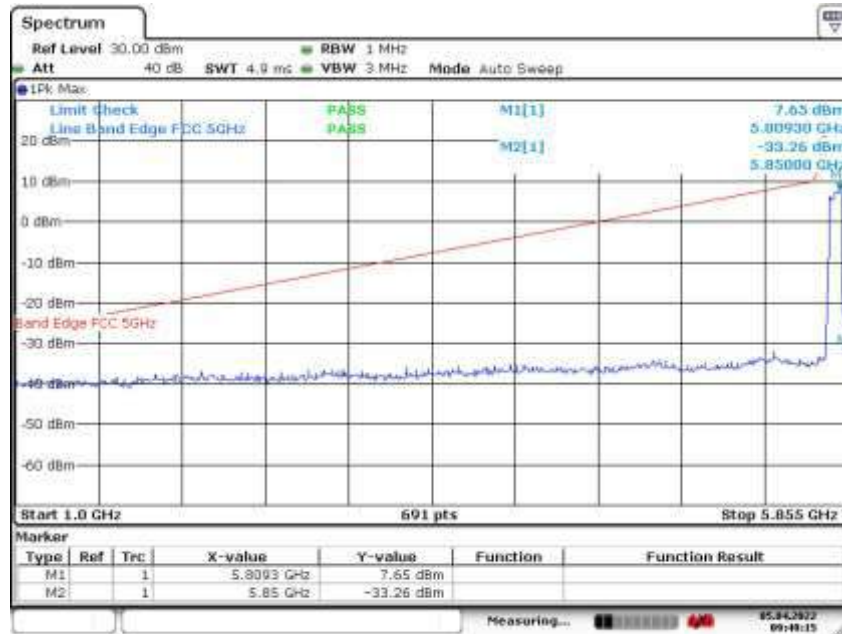


802.11ax(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz



Report No.: AAEMT/EMC/220321-01-06

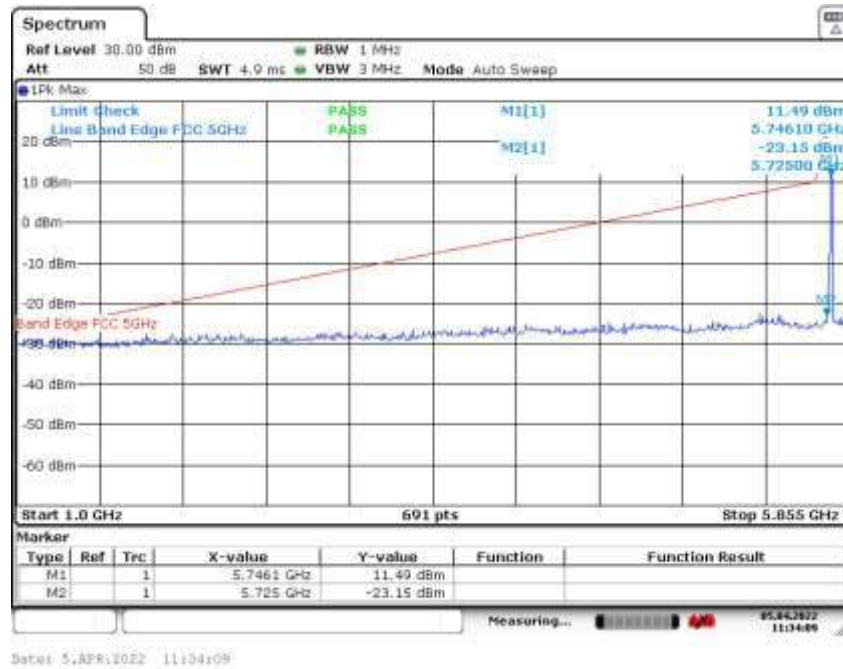
802.11ax(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz



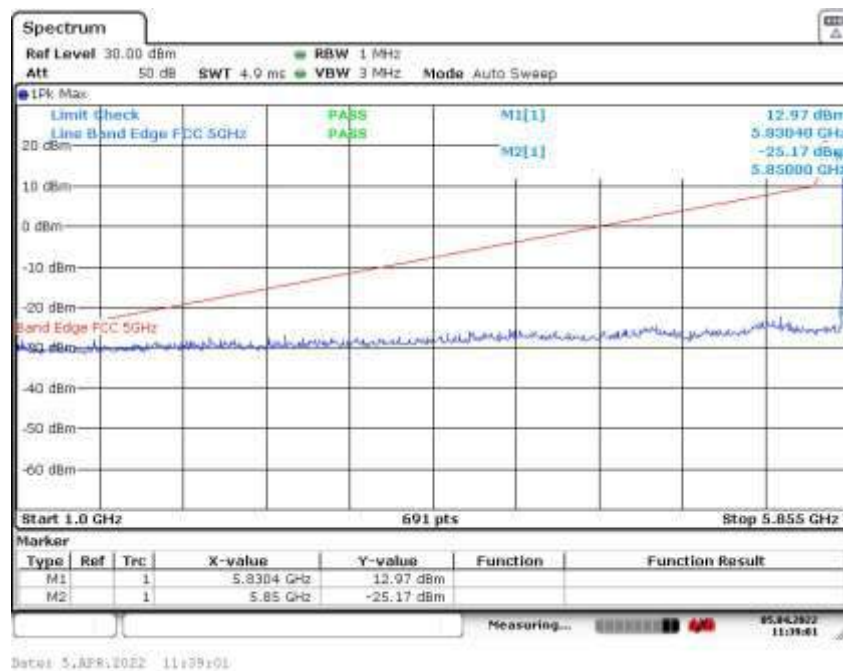
Date: 5, APR, 2022 09:49:16

TEST RESULT ANT 5GM_3

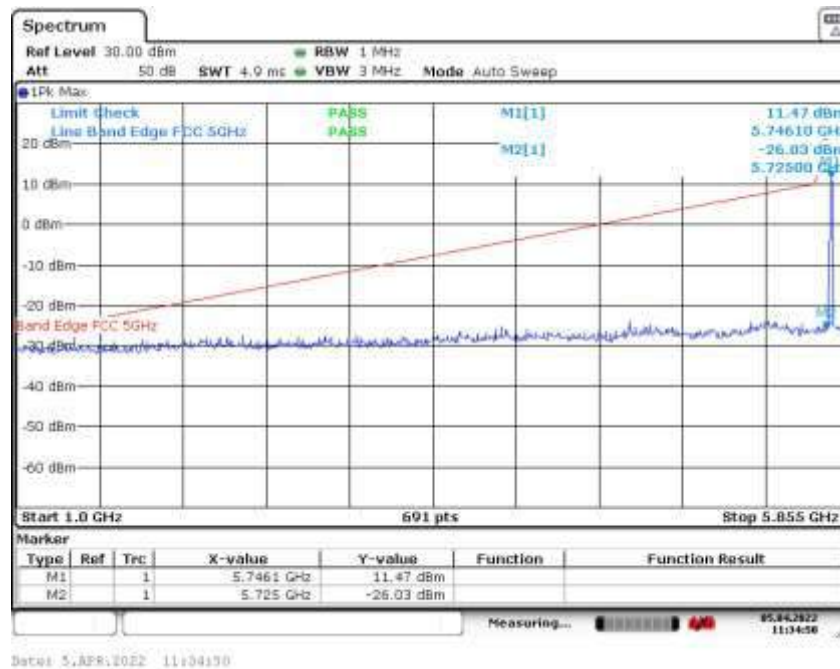
802.11a (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



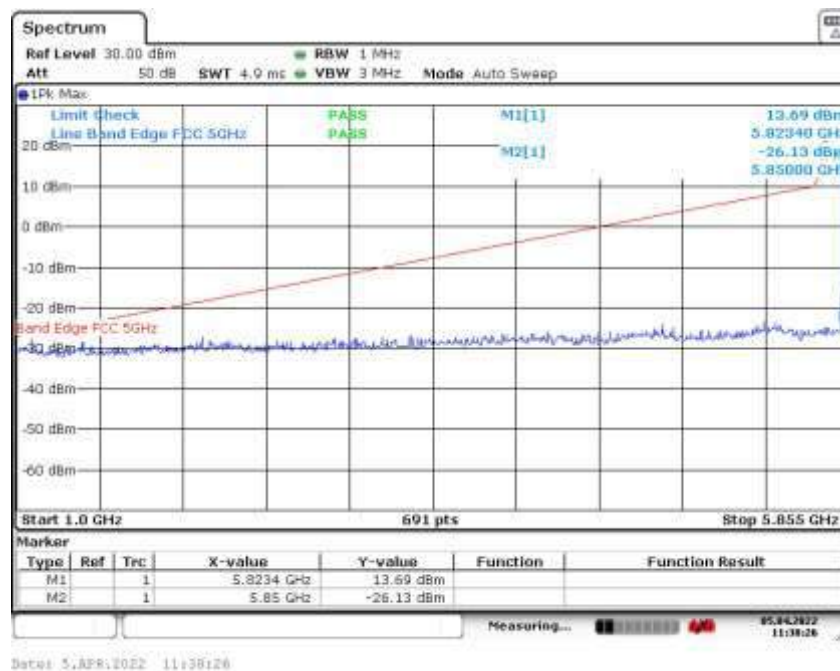
802.11a (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



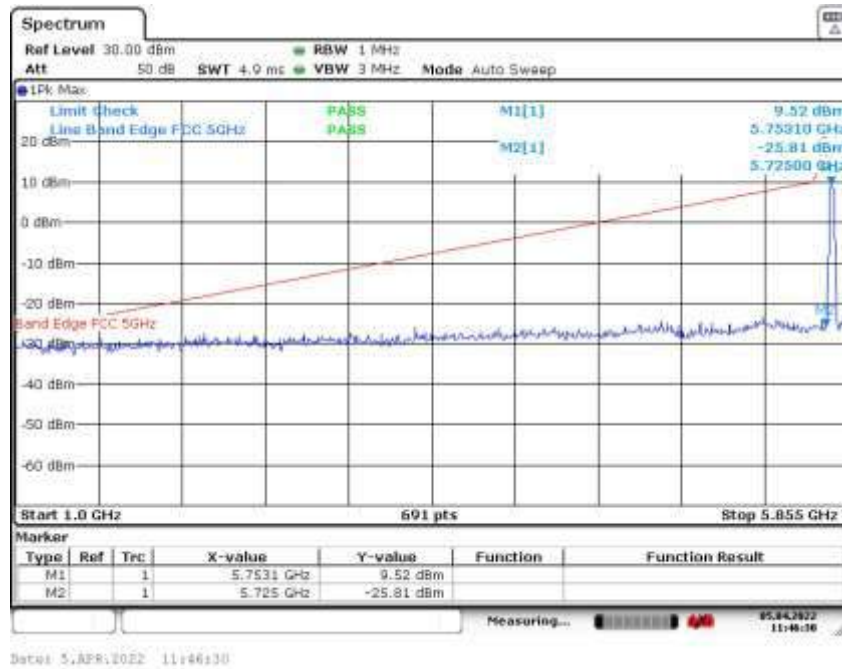
802.11n(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



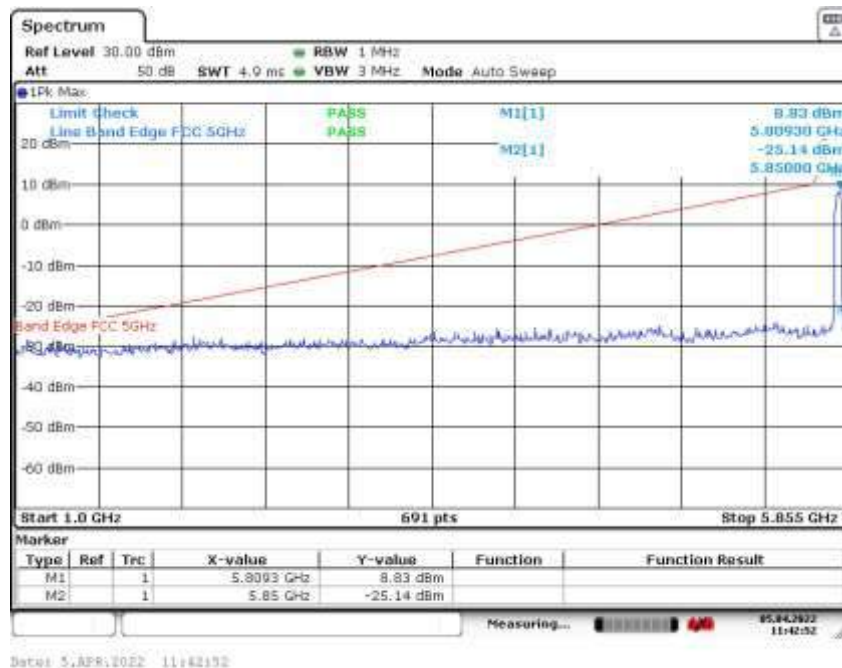
802.11n(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



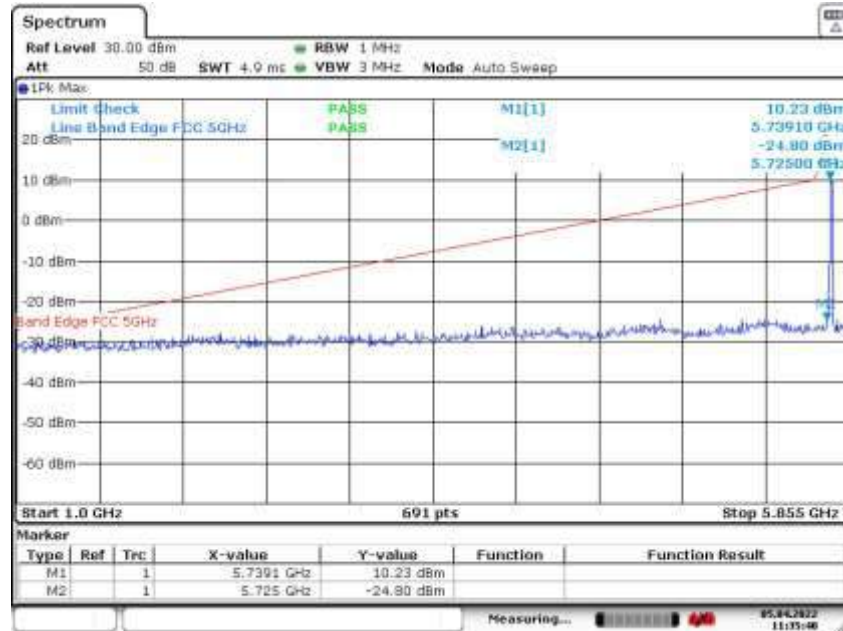
802.11n(40M) (5.725GHz-5.85GHz)
The Lowest Channel 151: 5755MHz



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

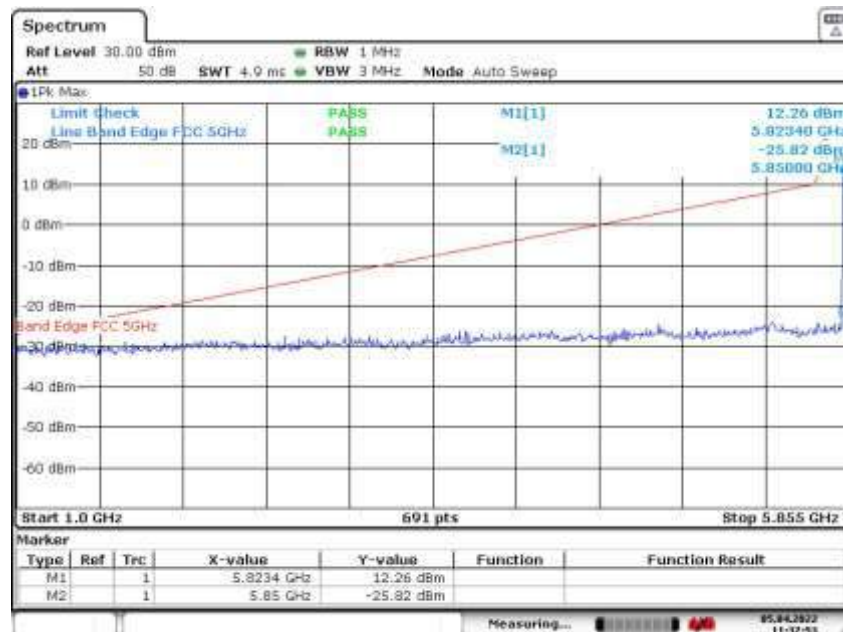


802.11ac(20M) (5.725GHz-5.85GHz)
The Low Channel 149: 5745MHz



Date: 5.APR.2022 11:05:40

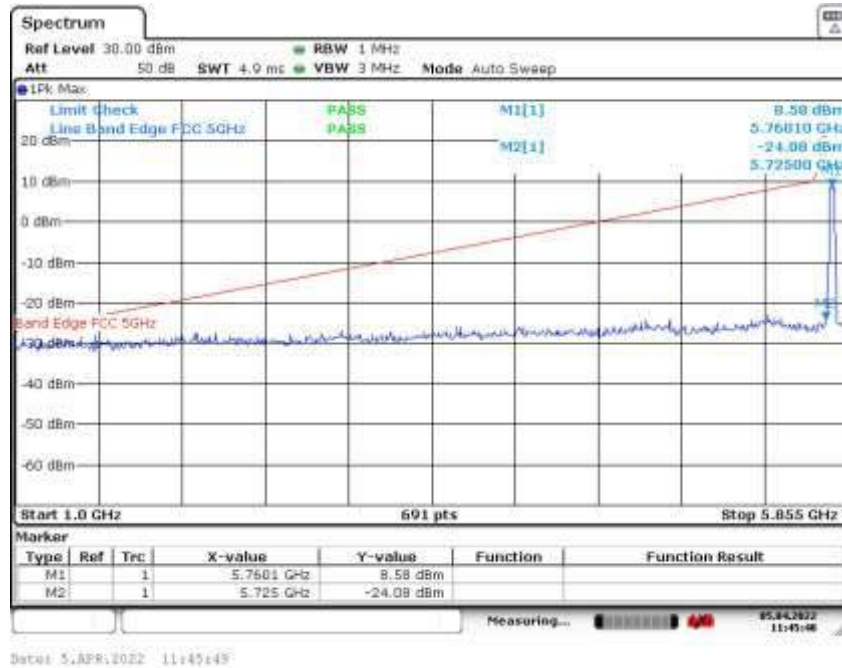
802.11ac(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



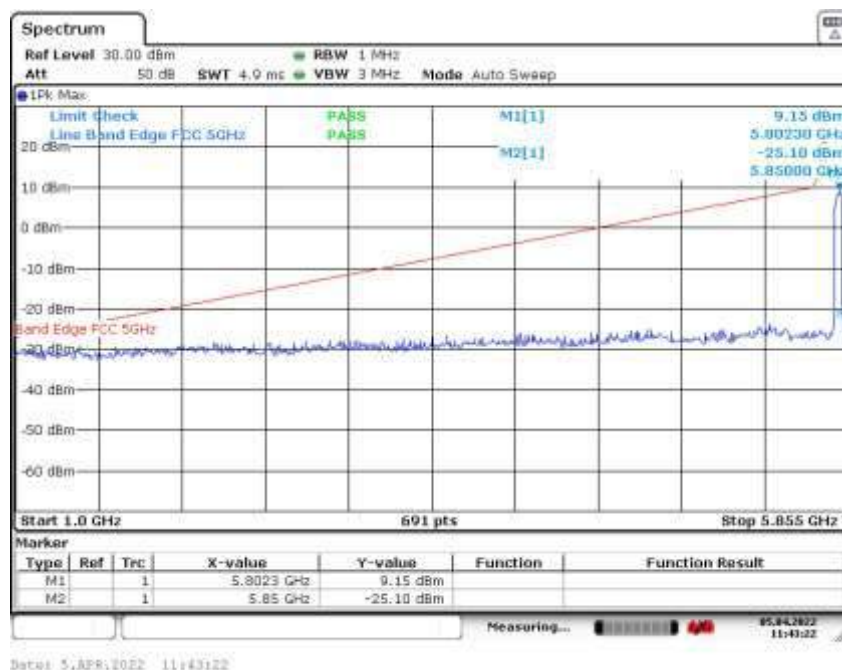
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Report No.: AAEMT/EMC/220321-01-06

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

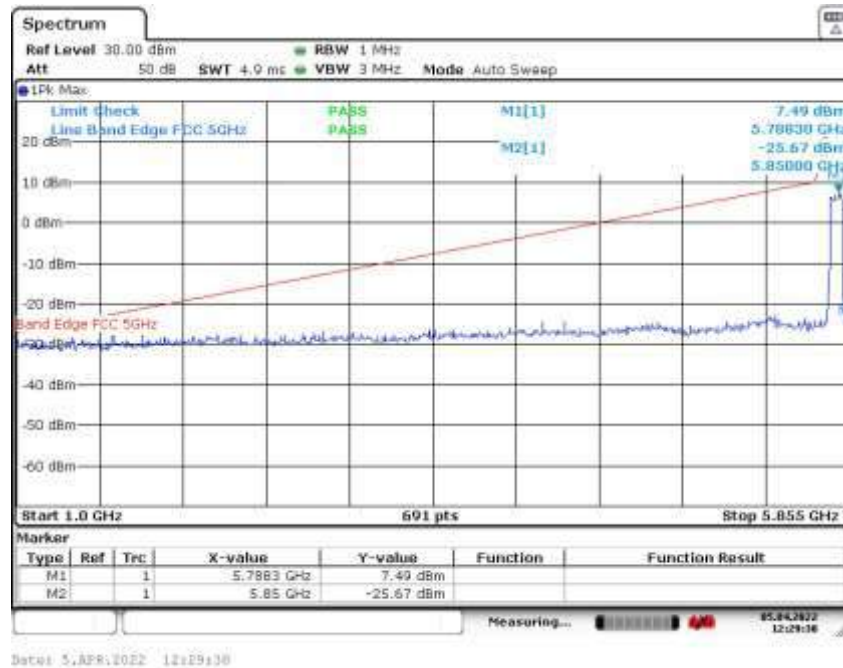


**802.11ac(40M) (5.725GHz-5.85GHz)
The High Channel 159: 5795MHz**

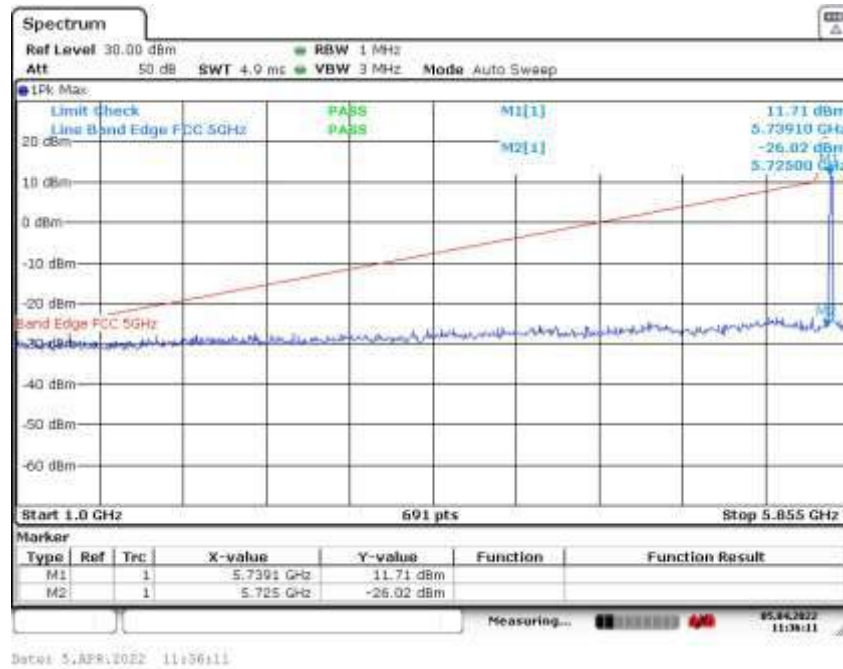


Report No.: AAEMT/EMC/220321-01-06

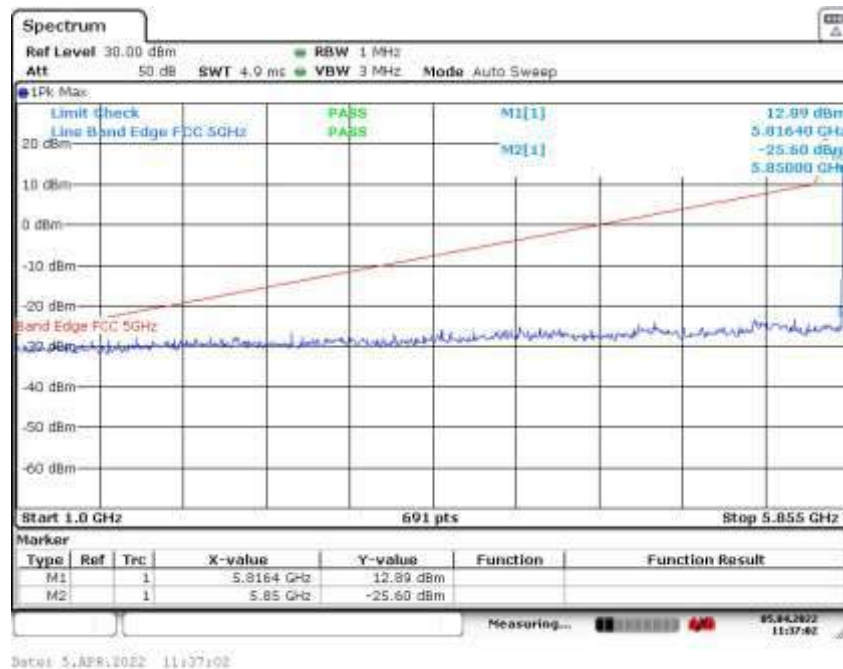
802.11ac(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz



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

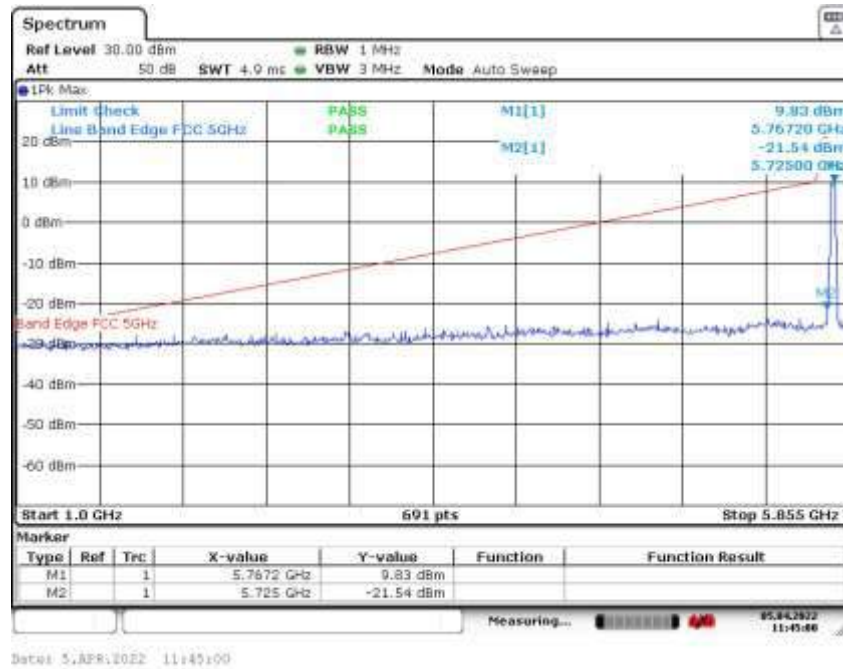


802.11ax(20M) (5.725GHz-5.85GHz)
The High Channel 165: 5825MHz



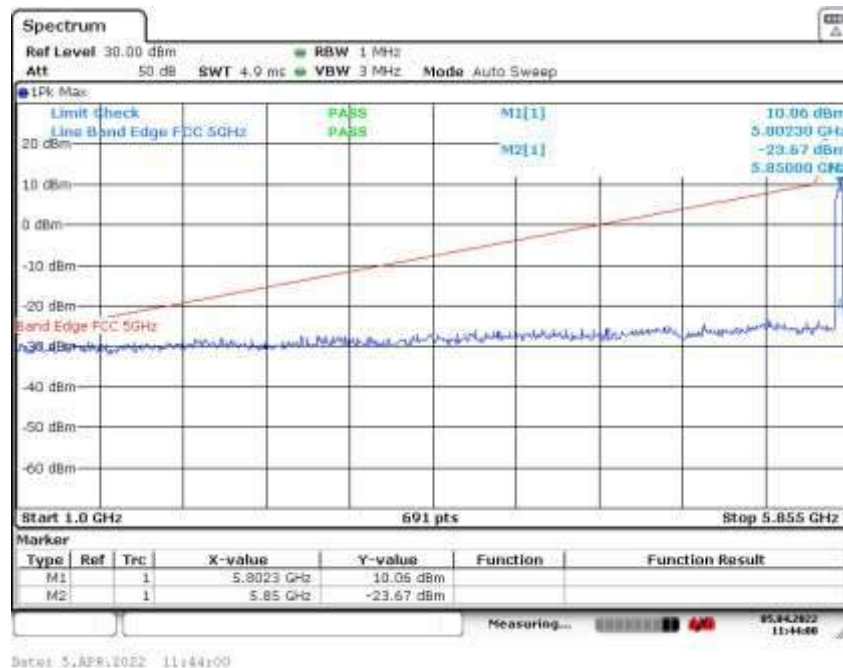
802.11ax(40M) (5.725GHz-5.85GHz)

The Lowest Channel 151: 5755MHz



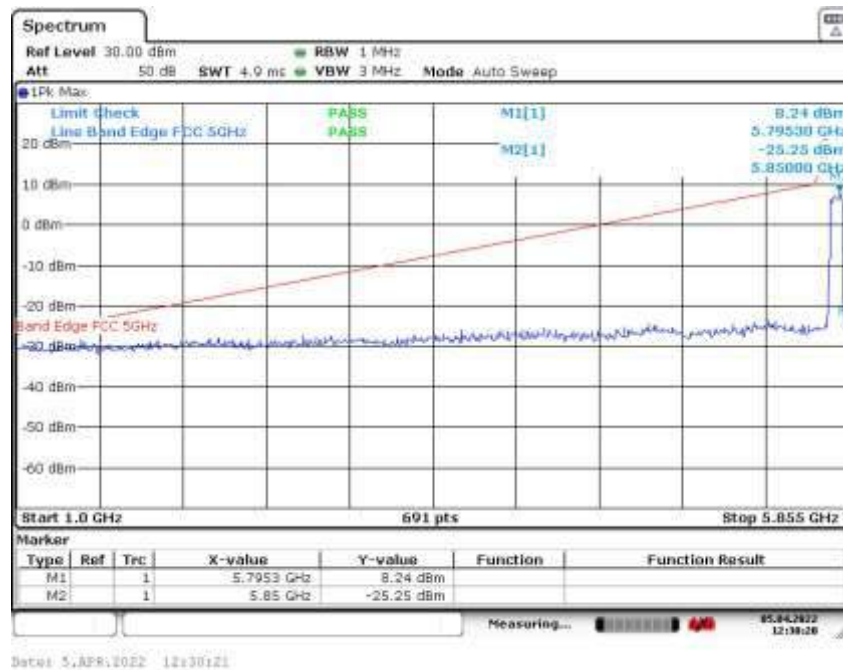
802.11ax(40M) (5.725GHz-5.85GHz)

The High Channel 159: 5795MHz



Report No.: AAEMT/EMC/220321-01-06

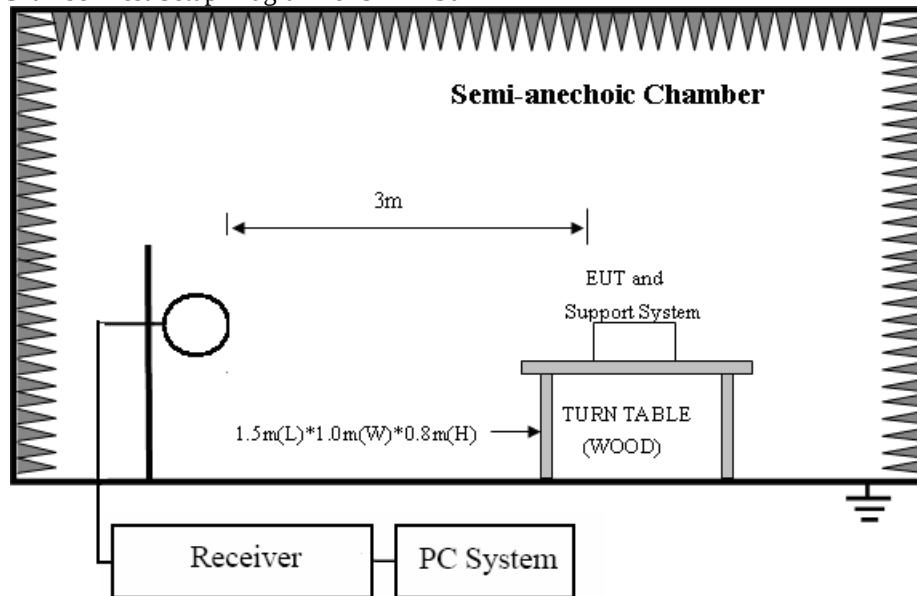
802.11ax(80M) (5.725GHz-5.85GHz)
The High Channel 155: 5775MHz



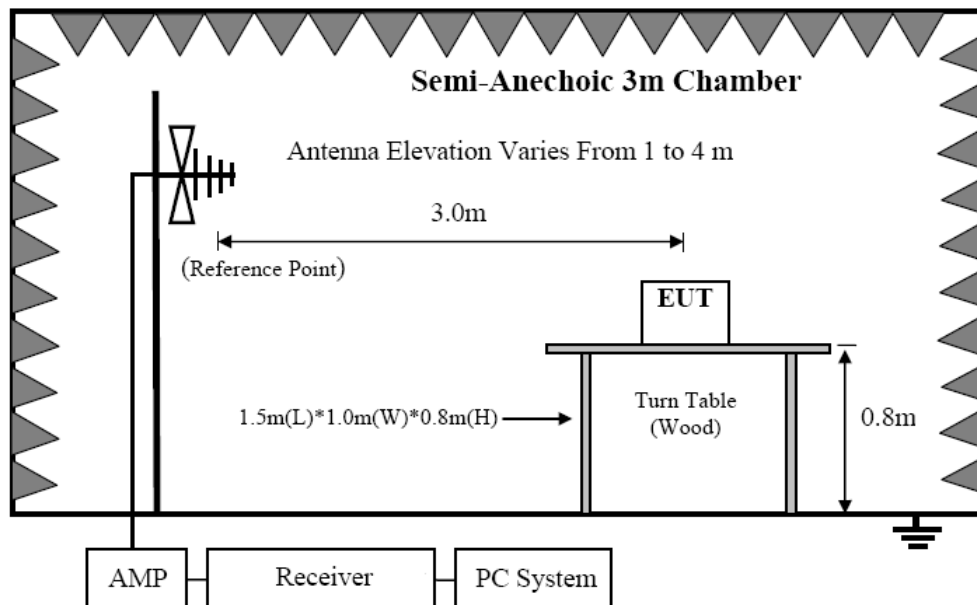
8. RADIATED EMISSION MEASUREMENT

8.1. Block diagram of test setup

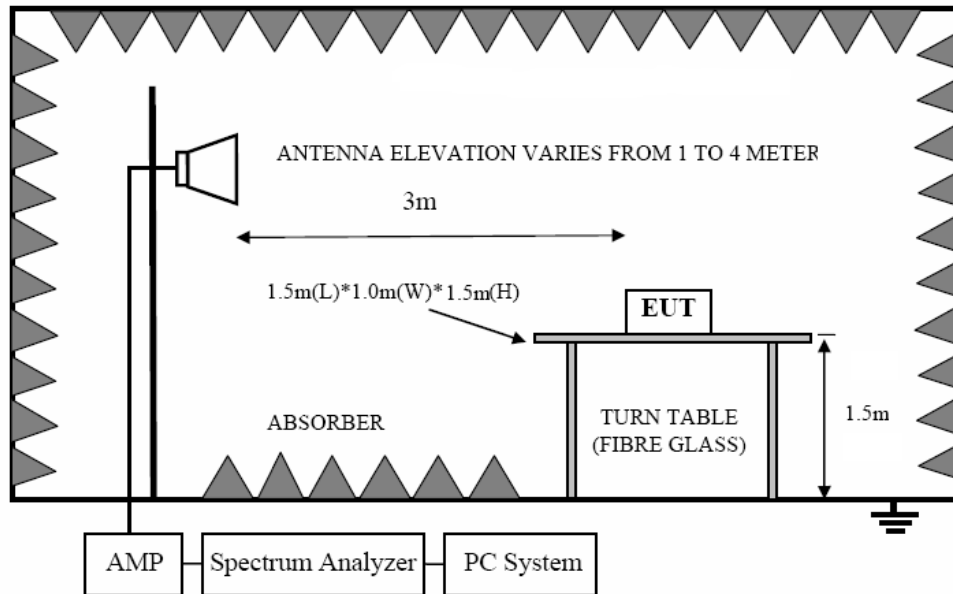
In 3m Anechoic Chamber Test Setup Diagram for 9KHz-30MHz



In 3m Anechoic Chamber Test Setup Diagram for 30MHz-1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.2. Limit

9.3.1 FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(¹)

9.3.2. FCC 15.209 Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	$2400/\text{F}(\text{KHz})$	$67.6-20\log(\text{F})$
0.490 ~ 1.705	30	$24000/\text{F}(\text{KHz})$	$87.6-20\log(\text{F})$
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30MHz, measurement may be performed at a distance closer then that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V/m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

9.3.3. Limit for this EUT

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 30dB below the fundamental emissions, or comply with 15.209 limits.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.4 and 7.2
- (3) Test antenna was located 3m(except 18GHz-40GHz was 1m) from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used
9KHz-30MHz	Active Loop antenna
30MHz-1GHz	Bilog Broadband Antenna
1GHz-18GHz	Double Ridged Horn Antenna(1GHz-18GHz)
18GHz-40GHz	Horn Antenna(18GHz-40GHz)

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9KHz to 25GHz:
 - (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1m to 4m(Except loop antenna, it's fixed 1m above ground.)
 - (b) Change work frequency or channel of device if practicable.
 - (c) Change modulation type of device if practicable.
 - (d) new battery is used during testing

- (e) Rotated EUT through three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18GHz to 25GHz, so below final test was performed with frequency range from 9KHz to 18GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (6) The emissions from 9KHz to 1GHz were measured based on CISPR QP detector except for the frequency bands 9-90KHz, 110-490KHz, for emissions from 9KHz-90KHz, 110KHz-490KHz and above 1GHz were measured based on average detector, for emissions above 1GHz, peak emissions also be measured and need comply with Peak limit.
- (7) The emissions from 9KHz to 1GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9KHz-150KHz	200Hz
150KHz-30MHz	9KHz
30MHz-1GHz	120KHz

- (8) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure (according ANSI C63.10:2013 clause 4.2.3.2.3 procedure for average measure). Peak detector is used for Peak and AV measurement both.

According to KDB 789033 v02r01 section G) 1) (d), for For measurements above 1000 MHz @ 3m distance, the limit of field strength is computed as follows:

$$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2;$$

For example, if EIRP = -27dBm

$$E[\text{dBuV/m}] = -27 + 95.2 = 68.2\text{dBuV/m}.$$

8.4. Test result(Below 30MHz)

EUT:	deltaLINK™	Model Name. :	DEC-H-D-800-10
Temperature:	24°C	Relative Humidity:	55%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	--	Test Result:	Pass
Test Mode:	Keeping TX mode	Test By:	Ankur

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

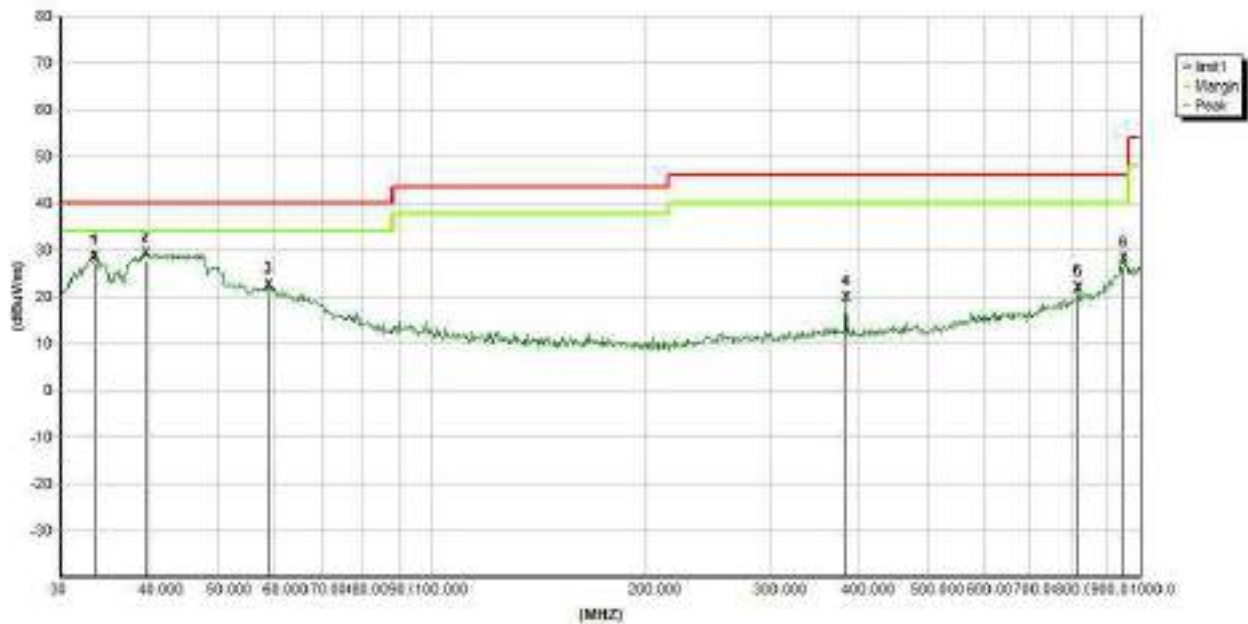
Distance extrapolation factor = $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

Note: N/A

TEST RESULTS (Between 30M – 1000 MHz)

EUT:	deltaLINK™	Model Name. :	DEC-H-D-801-10
Temperature:	24°C	Relative Humidity:	55%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE)FCC PART 15	Test By:	Ankur
Test Mode:	Keeping TX mode		

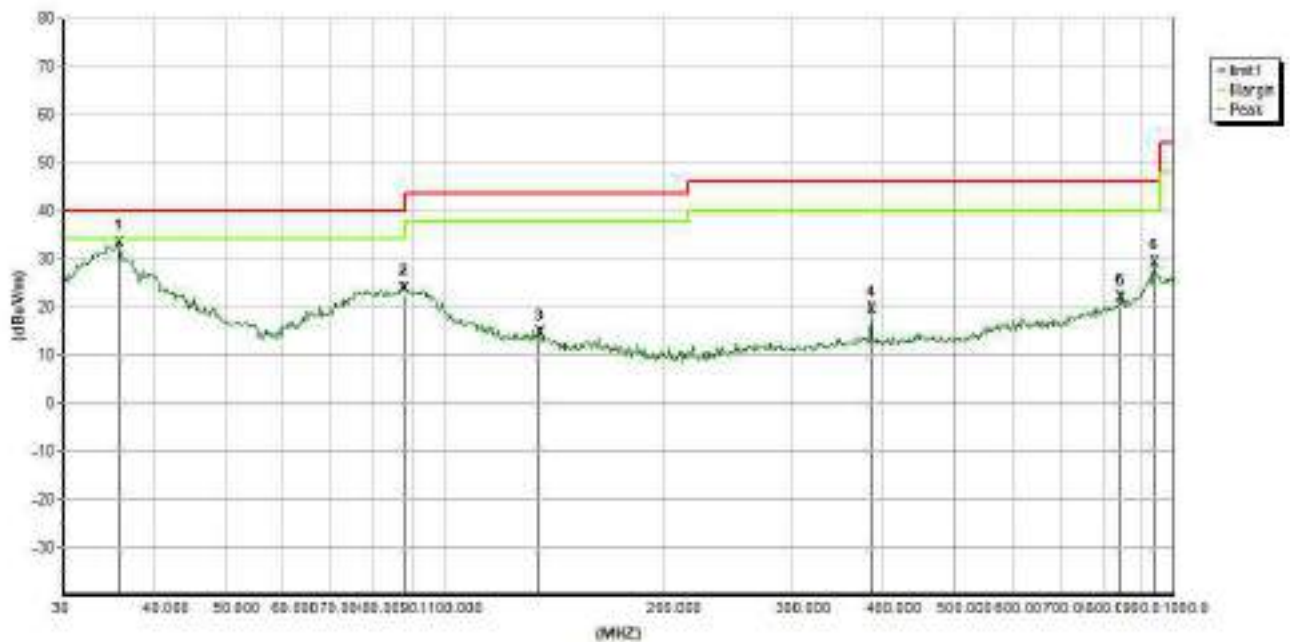


No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	33.4450	34.09	11.27	24	7.28	28.64	40.00	-11.36	QP
2	39.4371	39.87	6	24	7.28	29.15	40.00	-10.85	QP
3	58.6126	30.20	7.81	23.83	8.1	22.28	40.00	-17.72	QP
4	383.9318	20.92	14.3	23	7.36	19.58	46.00	-26.42	QP
5	813.1115	17.48	20.72	23	6.62	21.82	46.00	-24.18	QP
6	942.1304	17.69	23.37	22.3	9.2	27.96	46.00	-18.04	QP

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (3) Margin = Result - Limit

EUT:	deltaLINK™	Model Name. :	DEC-H-D-801-10
Temperature:	24°C	Relative Humidity:	55%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE) FCC PART 15	Test By:	Ankur
Test Mode:	Keeping TX mode		



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	35.7490	40.47	9.37	24	7.28	33.12	40.00	-6.88	QP
2	87.7246	28.69	7.48	23.25	10.86	23.78	40.00	-16.22	QP
3	134.5591	17.26	8.59	23	11.58	14.43	43.50	-29.07	QP
4	383.9318	20.27	14.72	23	7.36	19.35	46.00	-26.65	QP
5	845.0877	15.93	21.91	23	6.78	21.62	46.00	-24.38	QP
6	938.8326	19.02	23.38	22.3	9.04	29.14	46.00	-16.86	QP

The test result is calculated as the following:

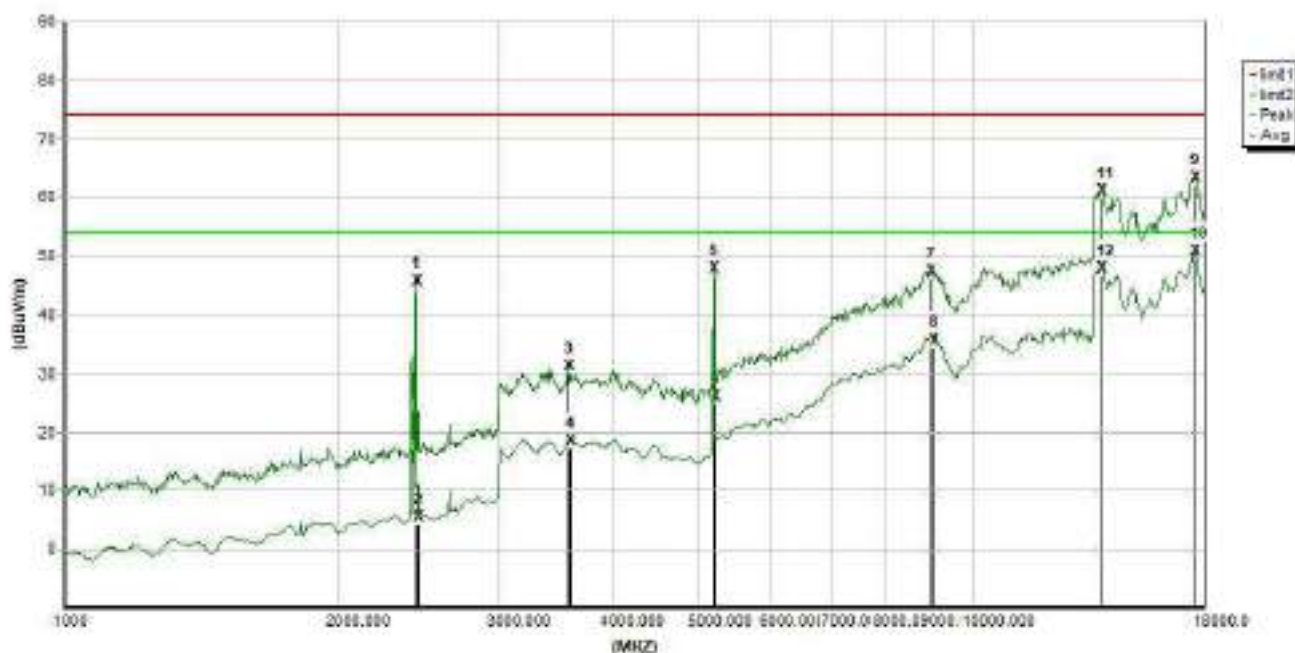
(4) Result = Reading + Correct Factor

(5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(6) Margin = Result - Limit

TEST RESULTS (Between 1000M – 18000 MHz)

EUT:	deltaLINK™	Model Name. :	DEC-H-D-801-10
Temperature:	24°C	Relative Humidity:	55%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	Vertical	Test Result:	Pass
Standard:	(RE) FCC PART 15	Test By:	Ankur
Test Mode:	Keeping TX mode		



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	2435.7010	53.16	28.75	22.3	-14.04	45.57	74.00	-28.43	peak
2	2449.8220	12.98	28.76	22.3	-13.99	8.45	54.00	-48.55	AVG
3	3587.8180	35.53	30.68	22.3	-12.67	31.24	74.00	-42.76	peak
4	3598.2030	22.68	30.7	22.3	-12.67	18.41	54.00	-35.59	AVG
5	5179.0490	51.44	33.65	21.96	-15.23	47.90	74.00	-26.10	peak
6	5194.0400	29.46	33.67	21.96	-15.09	26.08	54.00	-27.92	AVG
7	8995.1230	32.83	37.39	21.2	-1.71	47.31	74.00	-26.69	peak
8	9047.2720	21.78	37.46	21.19	-2.41	35.64	54.00	-18.36	AVG
9	17537.7980	43.40	45.38	20.59	-4.91	63.28	74.00	-10.72	peak
10	17537.7980	30.82	45.38	20.59	-4.91	50.70	54.00	-3.30	AVG
11	13837.0244	43.78	43.34	21.15	-4.84	61.13	74.00	-12.87	peak
12	13837.0244	30.46	43.34	21.15	-4.84	47.81	54.00	-6.19	AVG

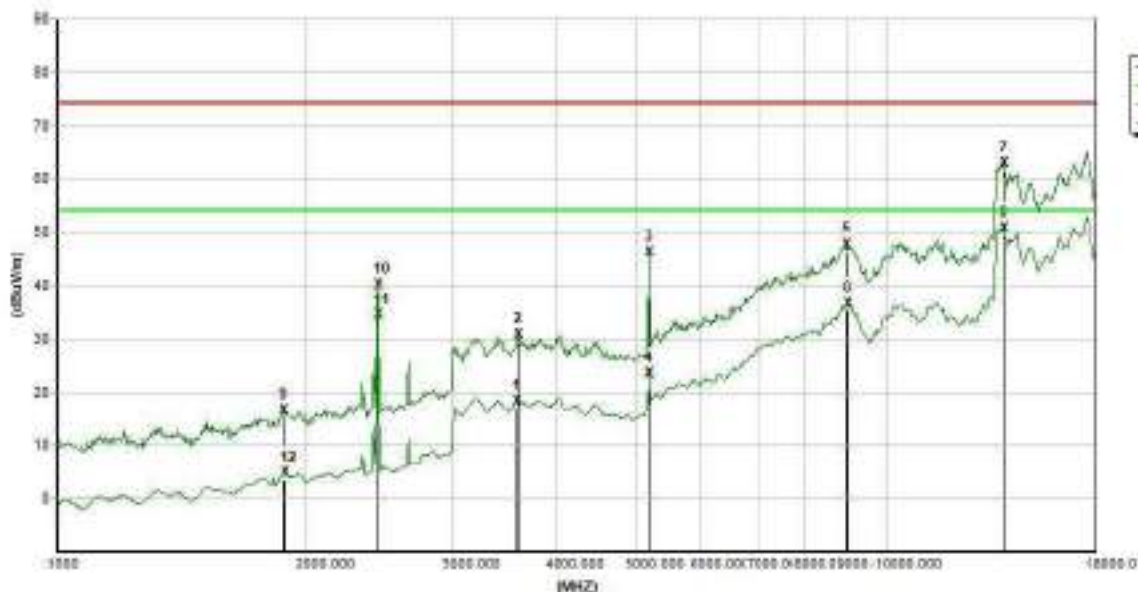
Note: Marker 5 is intentionally radiated frequency from the EUT.

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (3) Margin = Result - Limit

Report No.: AAEMT/EMC/220321-01-06

EUT:	deltaLINK™	Model Name. :	DEC-H-D-801-10
Temperature:	24°C	Relative Humidity:	55%
Distance:	3m	Test Power:	110VAC, 60Hz
Polarization:	Horizontal	Test Result:	Pass
Standard:	(RE) FCC PART 15	Test By:	Ankur
Test Mode:	Keeping TX mode		



No.	Freq. (MHz)	Reading (dBuV/m)	Antenna (dB/m)	Amp. (dB/m)	Cable (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector
1	3587.8180	22.47	30.68	22.3	-12.67	18.18	54.00	-35.82	AVG
2	3598.2030	34.86	30.7	22.3	-12.67	30.59	74.00	-43.41	peak
3	5179.0490	49.76	33.65	21.96	-15.23	46.22	74.00	-27.78	peak
4	5179.0490	26.89	33.65	21.96	-15.23	23.35	54.00	-30.65	AVG
5	8995.1230	33.04	37.39	21.2	-1.71	47.52	74.00	-26.48	peak
6	9021.1600	22.25	37.43	21.2	-2	36.48	54.00	-17.52	AVG
7	13877.0760	45.39	43.38	21.15	-4.85	62.77	74.00	-11.23	peak
8	13877.0760	33.28	43.38	21.15	-4.85	50.66	54.00	-3.34	AVG
9	1872.3804	26.70	27.61	22.3	-15.55	16.46	74.00	-57.54	peak
10	2435.7005	47.57	28.75	22.3	-14.04	39.98	74.00	-34.02	peak
11	2435.7005	42.06	28.75	22.3	-14.04	34.47	54.00	-19.53	AVG
12	1877.8003	14.83	27.64	22.3	-15.55	4.62	54.00	-49.38	AVG

Note: Marker 3 is intentionally radiated frequency from the EUT.

The test result is calculated as the following:

(4) Result = Reading + Correct Factor

(5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(6) Margin = Result – Limit

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor.

Average measurement was not performed if peak level lower than average limit.

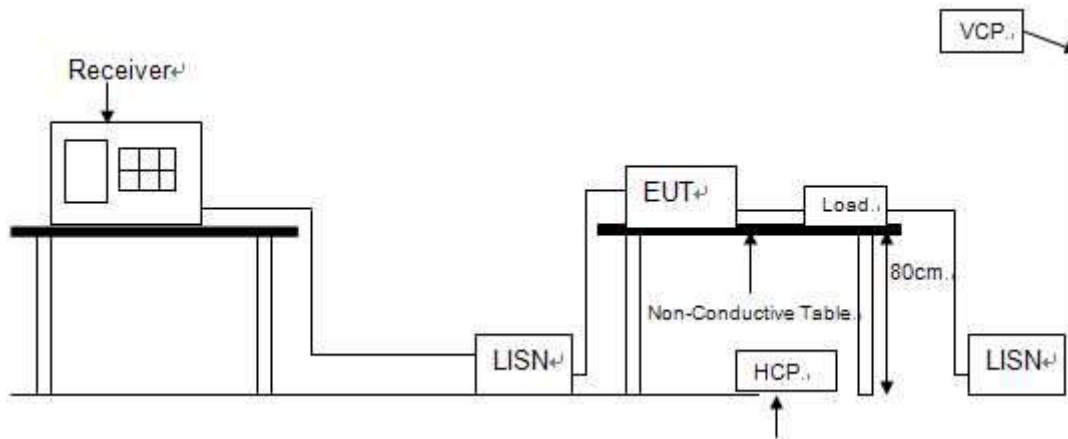
No any other emissions level very low which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

9. POWER LINE CONDUCTED EMISSION

9.1. Block diagram of test setup



9.2. Power Line Conducted Emission Limits

Frequency	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

9.3. Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

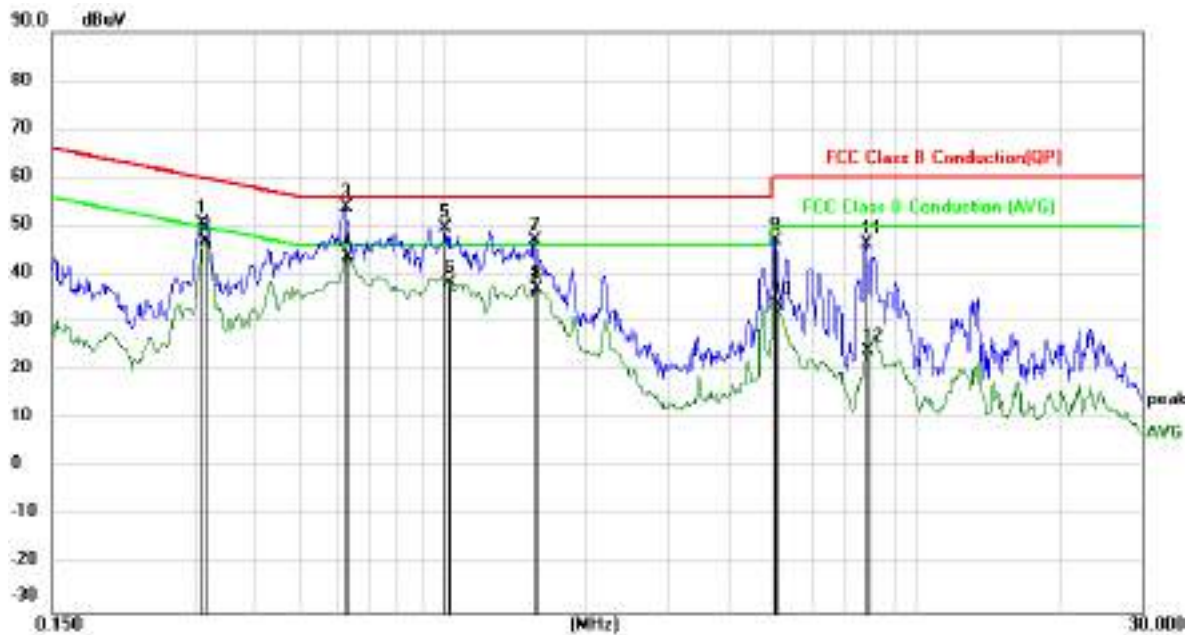
9.4. Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means peak detection; “-----” mans average detection

EUT:	deltaLINK™	Model Name:	DEC-H-D-801-10
Temperature:	24°C	Relative Humidity:	55%
Probe:	Line	Test Power:	110VAC, 60Hz
Test Mode:	TX	Test Result:	Pass
Standard:	(CE)FCC PART 15 C_QP		

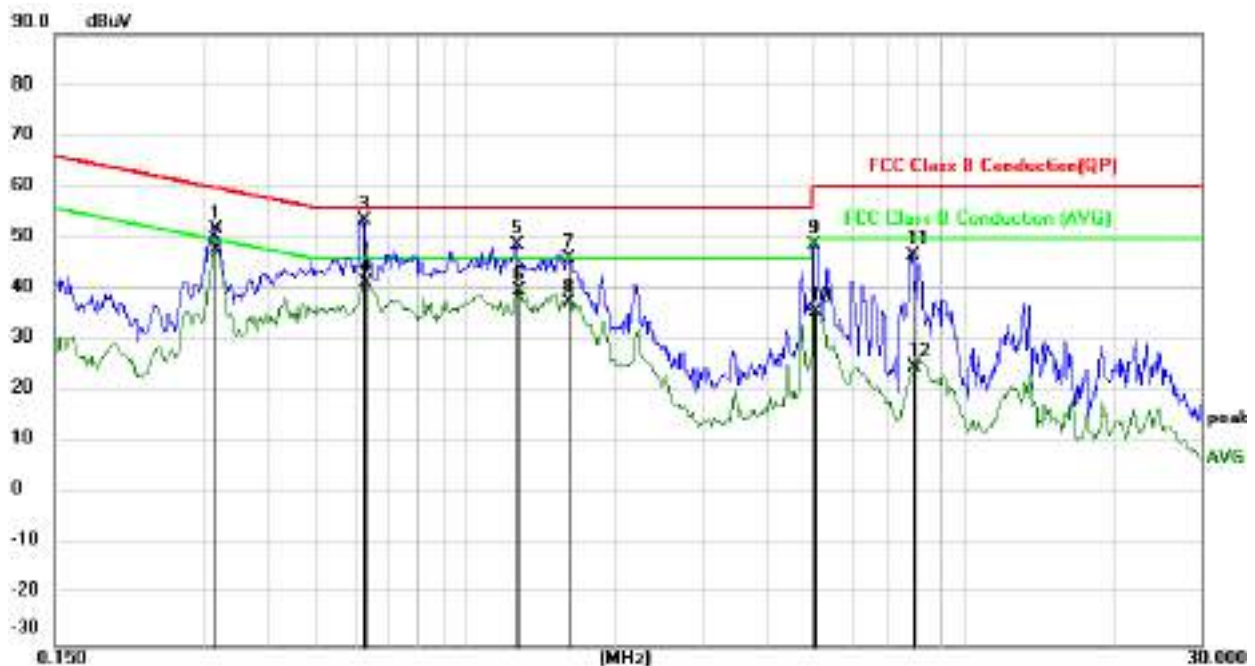


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3116	50.13	0.45	50.58	59.93	-9.35	QP
2		0.3150	46.39	0.45	46.84	49.84	-3.00	AVG
3	*	0.6260	53.35	0.41	53.76	56.00	-2.24	QP
4		0.6302	43.14	0.41	43.55	46.00	-2.45	AVG
5		1.0130	49.40	0.40	49.80	56.00	-6.20	QP
6		1.0307	37.81	0.40	38.21	46.00	-7.79	AVG
7		1.5620	46.44	0.41	46.85	56.00	-9.15	QP
8		1.5799	36.75	0.41	37.16	46.00	-8.84	AVG
9		5.0250	46.47	0.41	46.88	60.00	-13.12	QP
10		5.0750	33.22	0.41	33.63	50.00	-16.37	AVG
11		7.8250	46.14	0.36	46.50	60.00	-13.50	QP
12		7.9000	23.87	0.36	24.23	50.00	-25.77	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss + Attenuator
- (3) Margin = Result - Limit

EUT:	deltaLINK™	Model Name.	DEC-H-D-801-10
Temperature:	24°C	Relative Humidity:	55%
Probe:	Neutral	Test Power:	110VAC, 60Hz
Test Mode:	TX	Test Result:	Pass
Standard:	(CE)FCC PART 15 C_QP		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3134	51.35	0.45	51.80	59.88	-8.08	QP
2	*	0.3159	47.36	0.45	47.81	49.81	-2.00	AVG
3		0.6258	53.28	0.41	53.69	56.00	-2.31	QP
4		0.6302	40.71	0.41	41.12	46.00	-4.88	AVG
5		1.2647	48.42	0.40	48.82	56.00	-7.18	QP
6		1.2782	39.40	0.40	39.80	46.00	-6.20	AVG
7		1.6024	45.71	0.41	46.12	56.00	-9.88	QP
8		1.6112	36.94	0.41	37.35	46.00	-8.65	AVG
9		5.0000	48.46	0.41	48.87	56.00	-7.13	QP
10		5.0250	35.00	0.41	35.41	50.00	-14.59	AVG
11		7.8750	46.41	0.36	46.77	60.00	-13.23	QP
12		7.9500	24.27	0.36	24.63	50.00	-25.37	AVG

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss + Attenuator
- (3) Margin = Result – Limit

10. CONDUCTED SPURIOUS EMISSIONS

Test Requirement:

FCC Part 15 C section 15.407

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

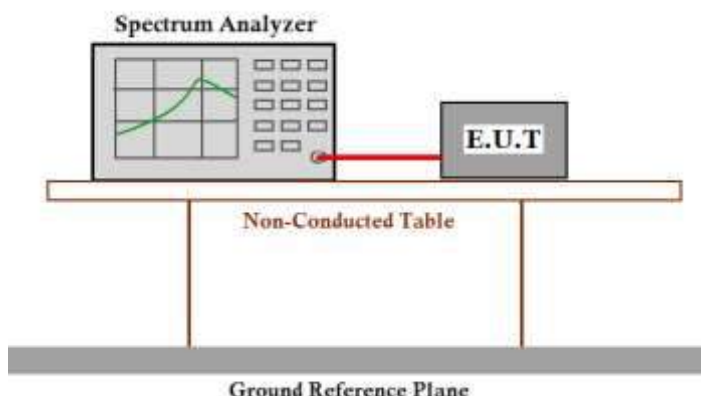
Test Method:

ANSI C63.10: Clause 6.7

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Pre-test the EUT under 2 modes: power-supplied by using the AC adapter and power-supplied by using internal battery.
After pre-testing, we found the worst case is the test mode of EUT power-supplied by using internal battery.

Test Configuration:

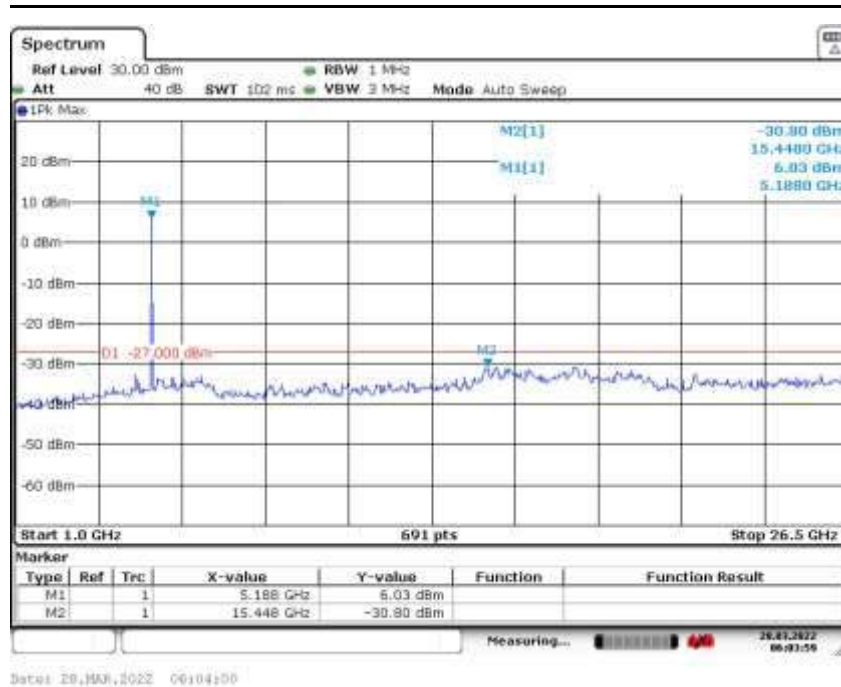
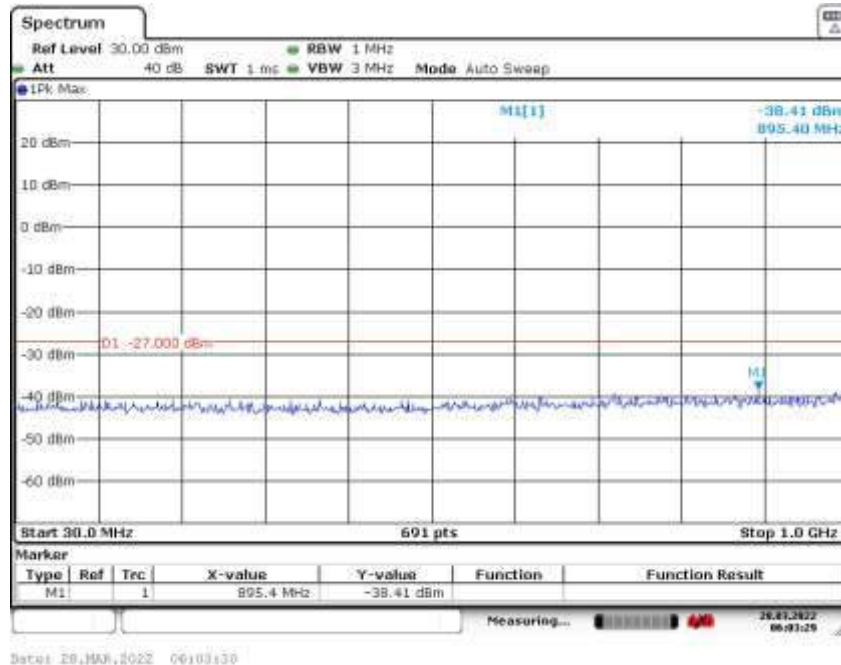


Test Procedure:

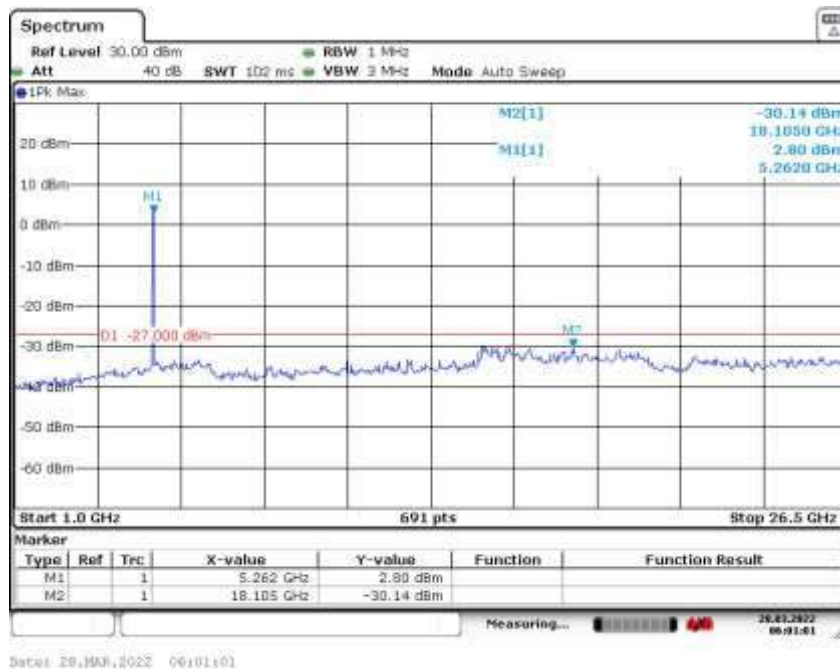
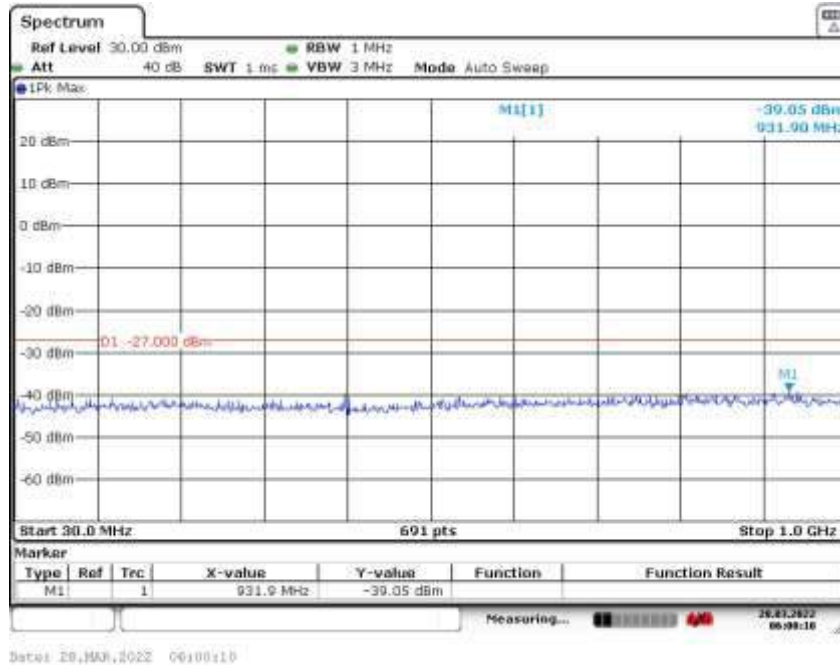
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worse case.

Result plot as follows: 5GS_0

a20 5.180 GHz

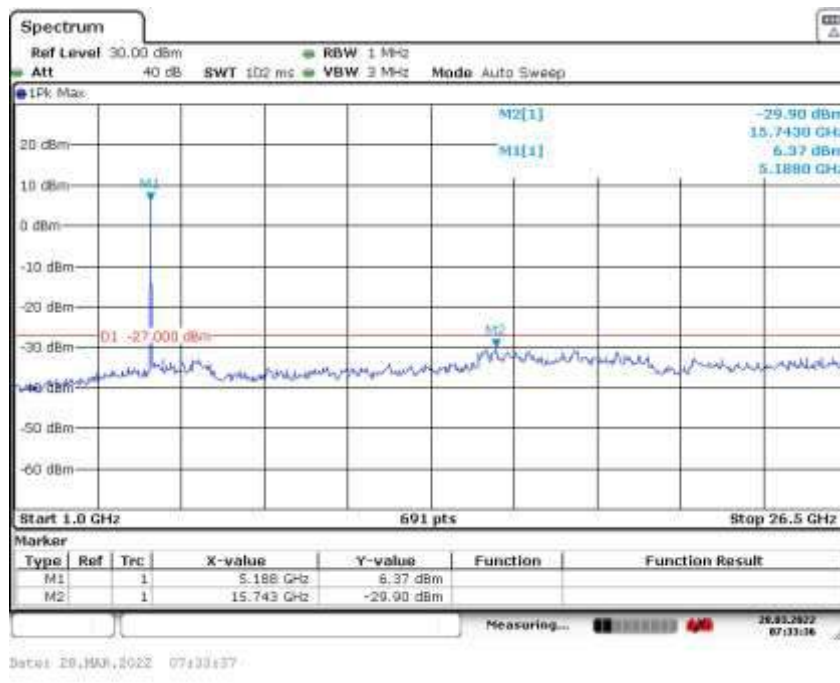
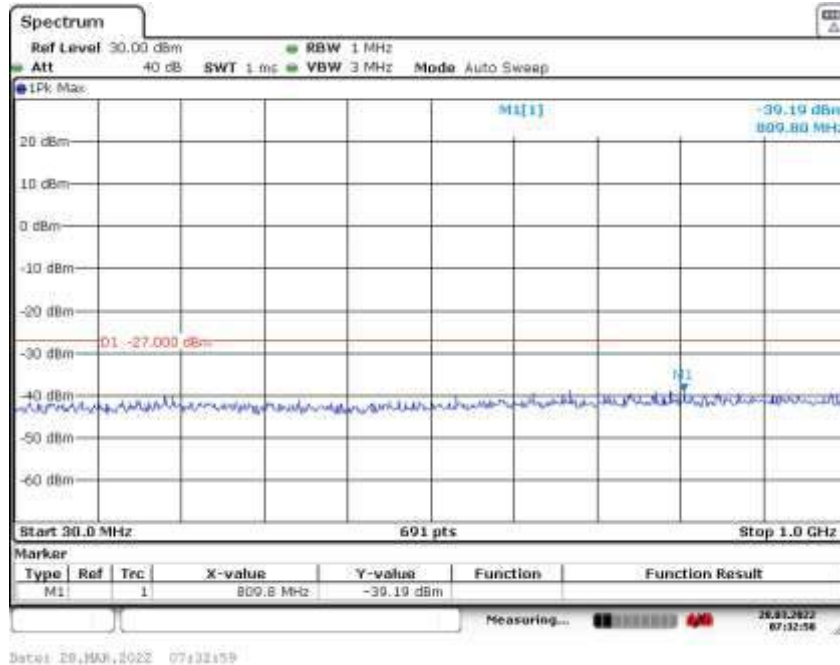


a20 5.240 GHz

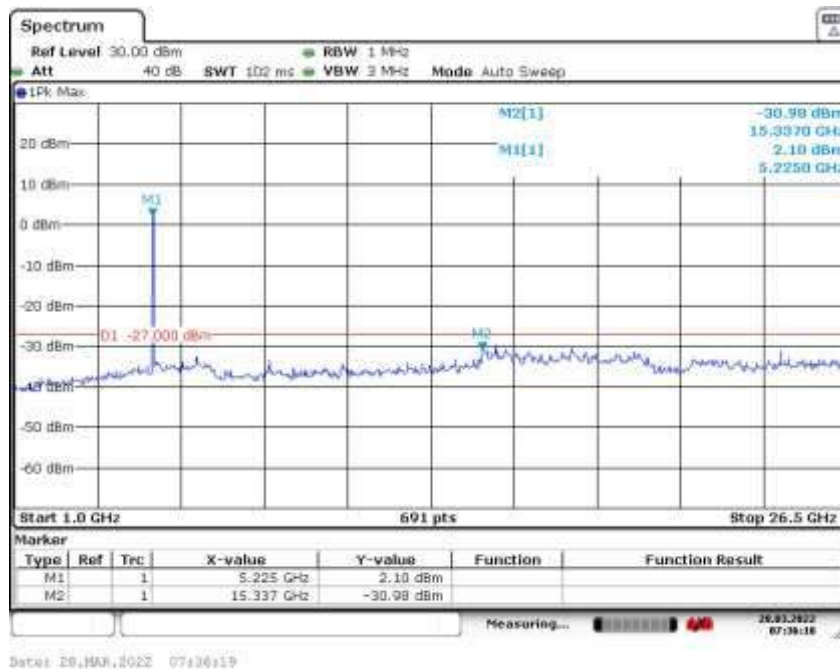
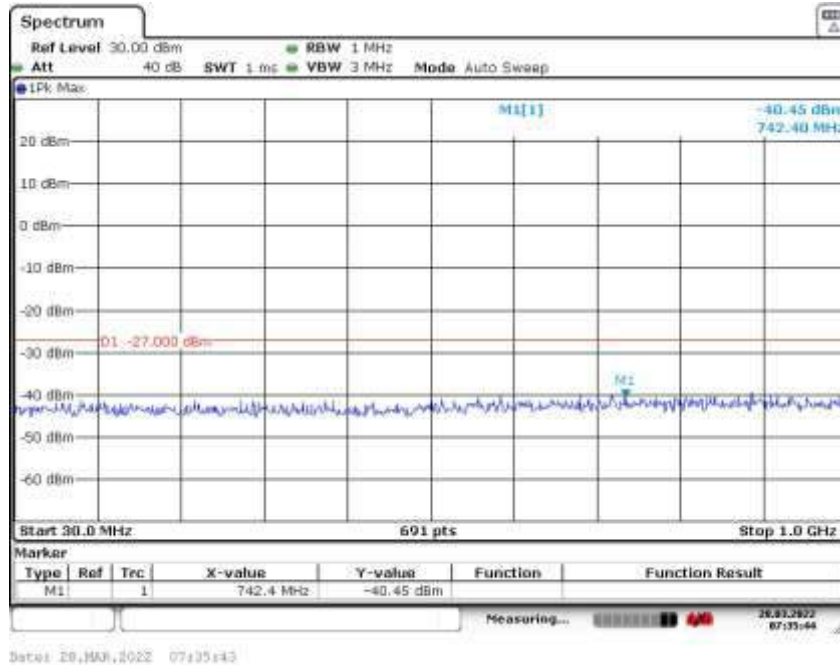


Report No.: AAEMT/EMC/220321-01-06

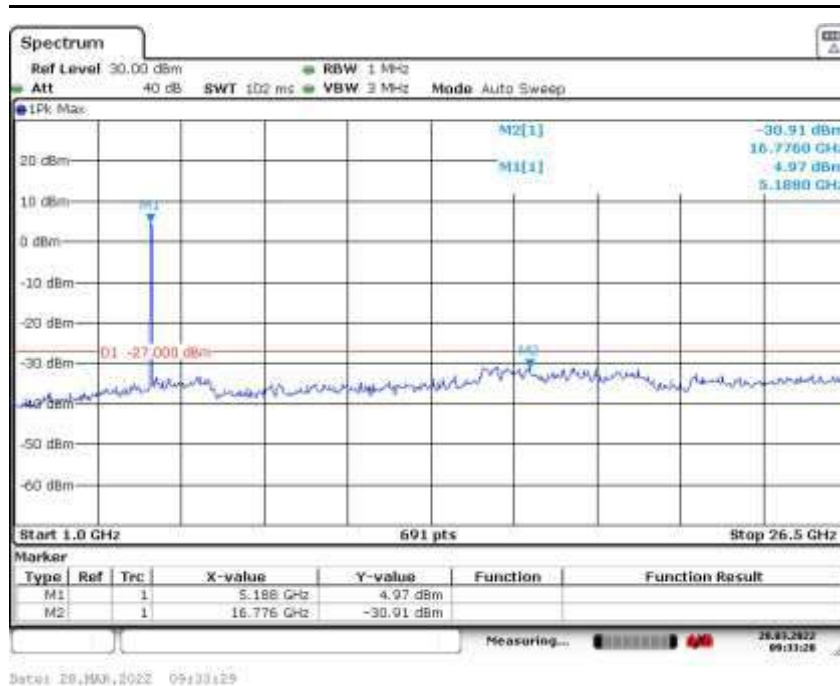
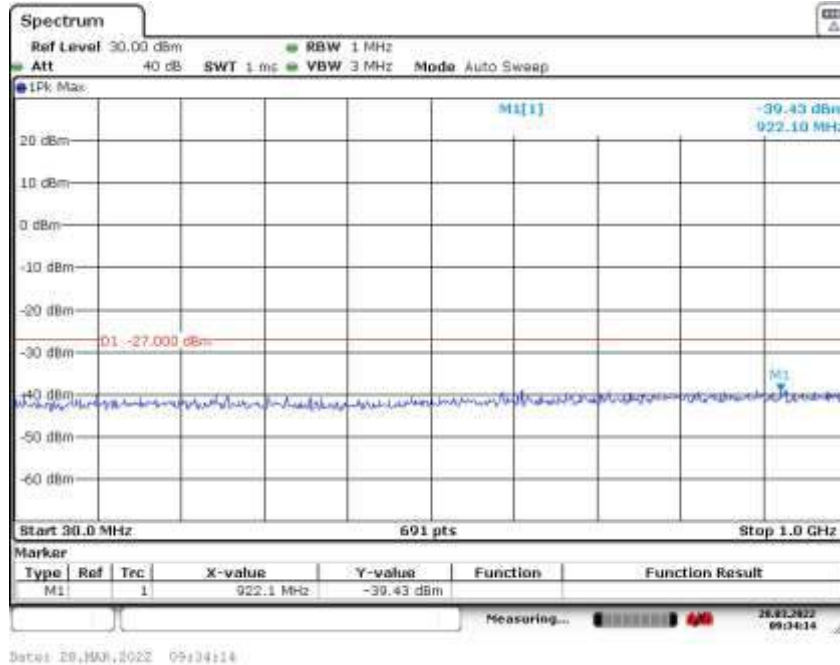
n20 5.180 GHz



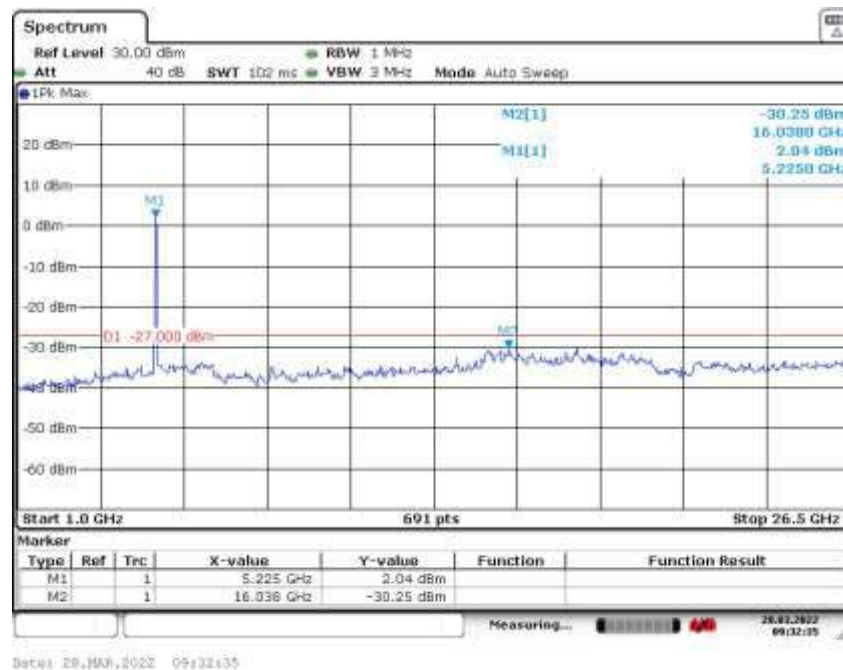
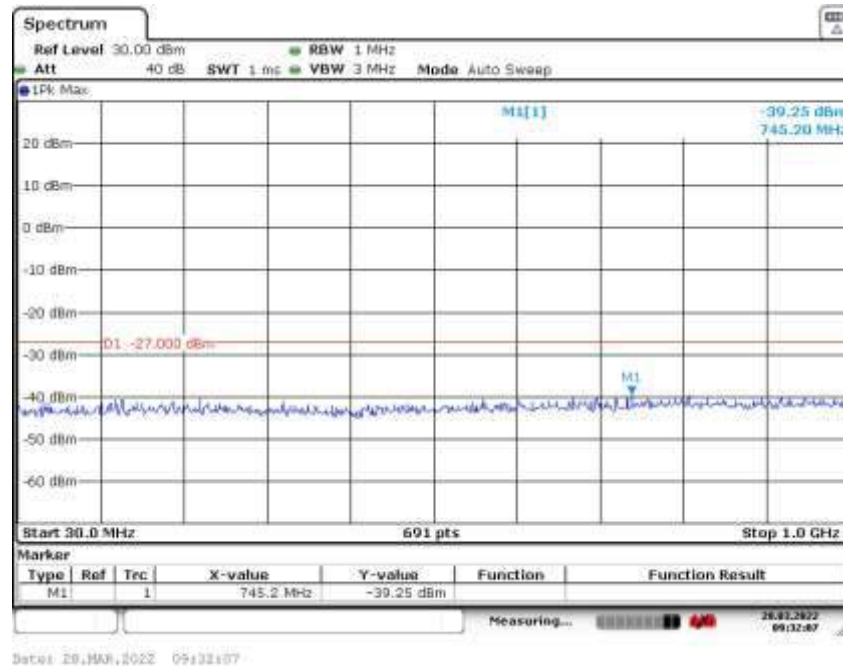
n20 5.240 GHz



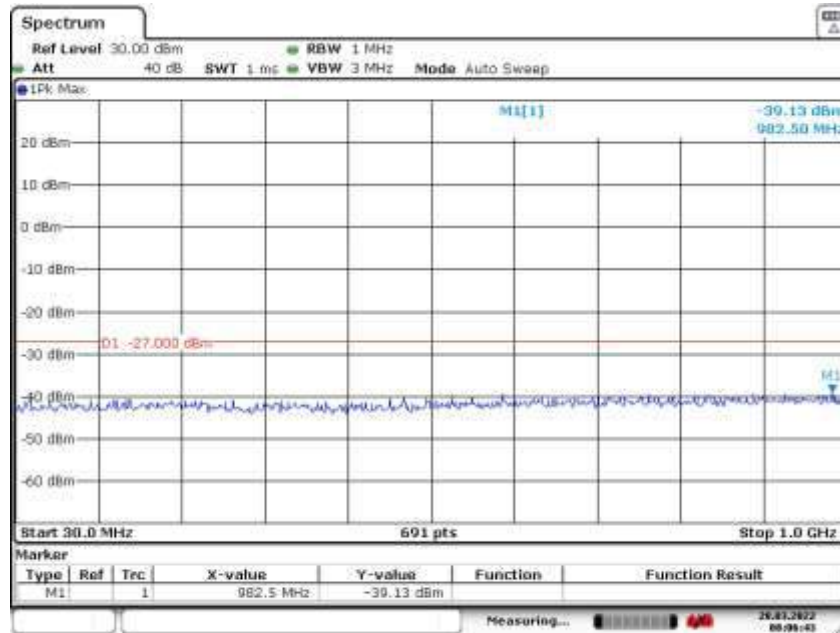
n40 5.190 GHz



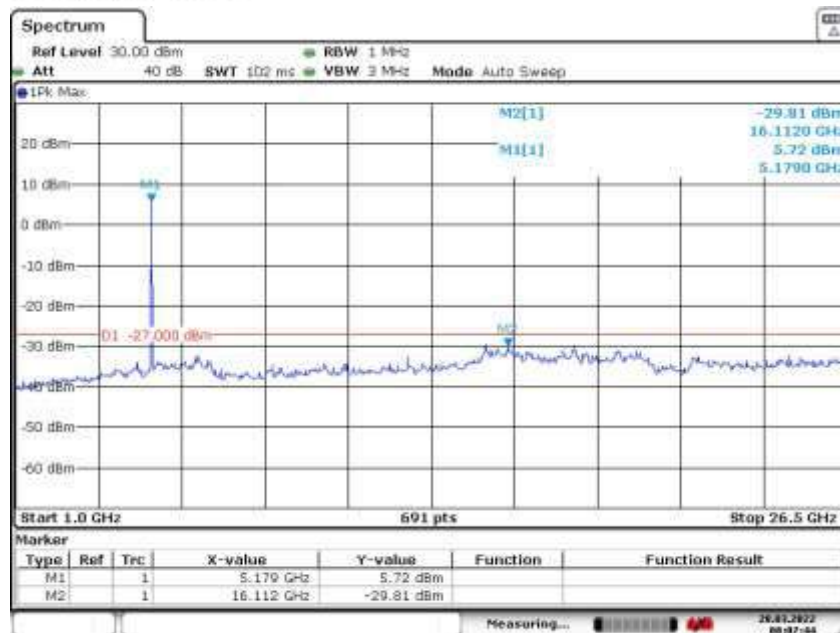
n40 5.230 GHz



ac20 5.180 GHz

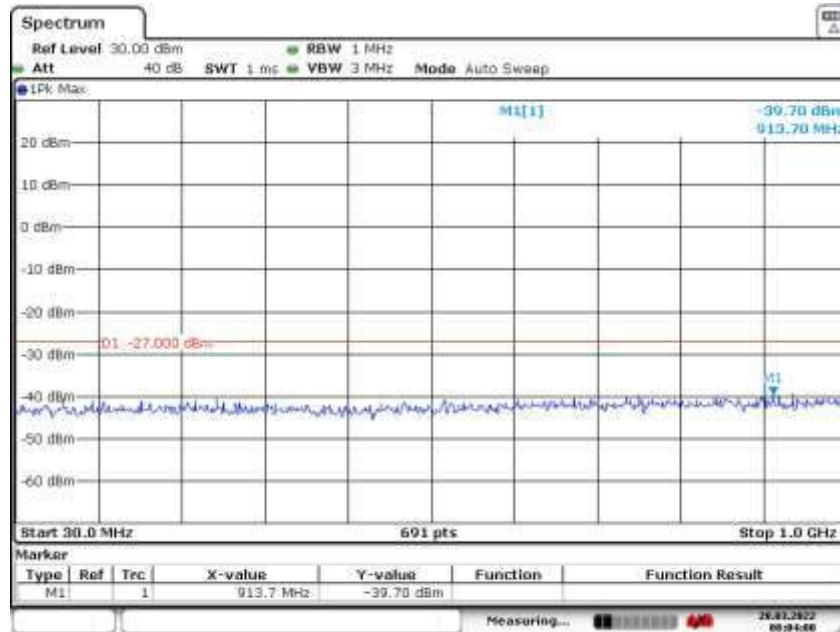


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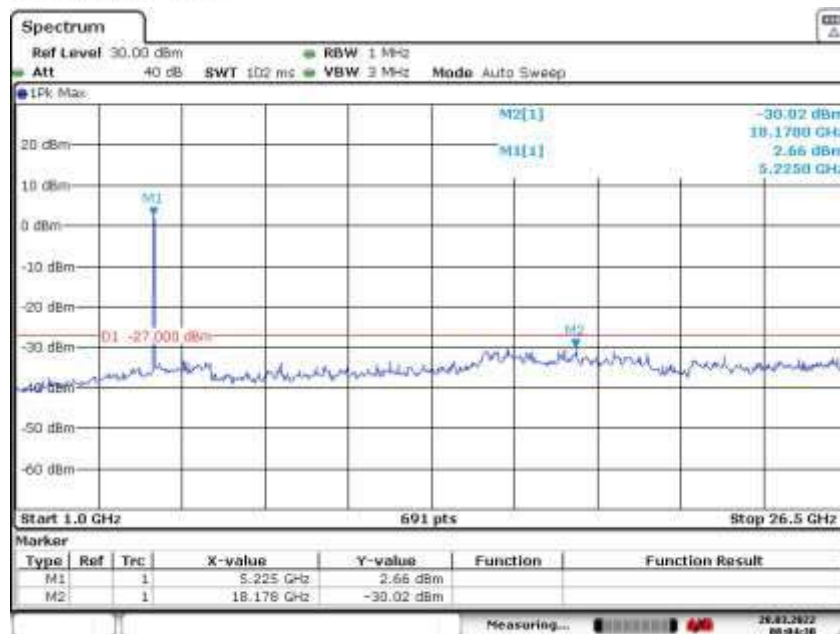


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ac20 5.240GHz

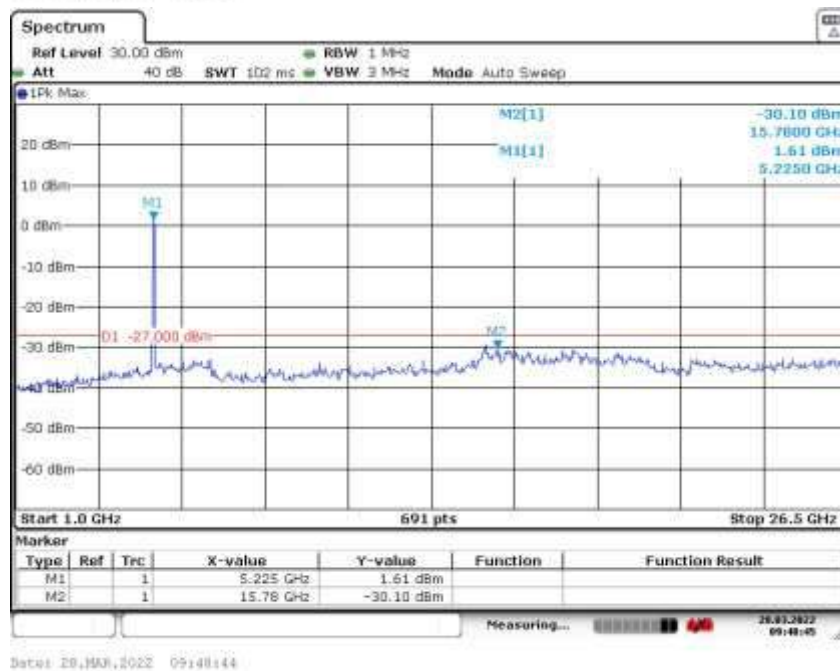
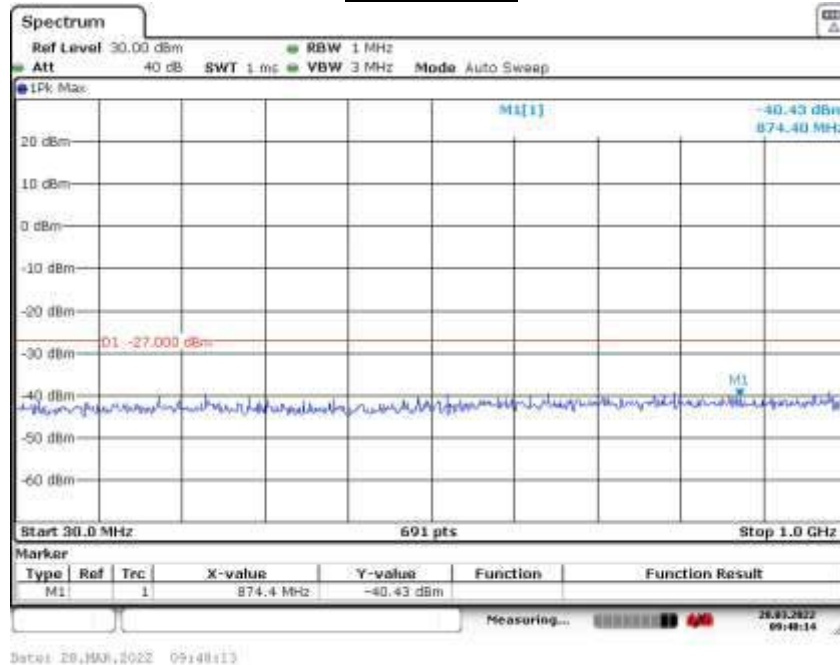


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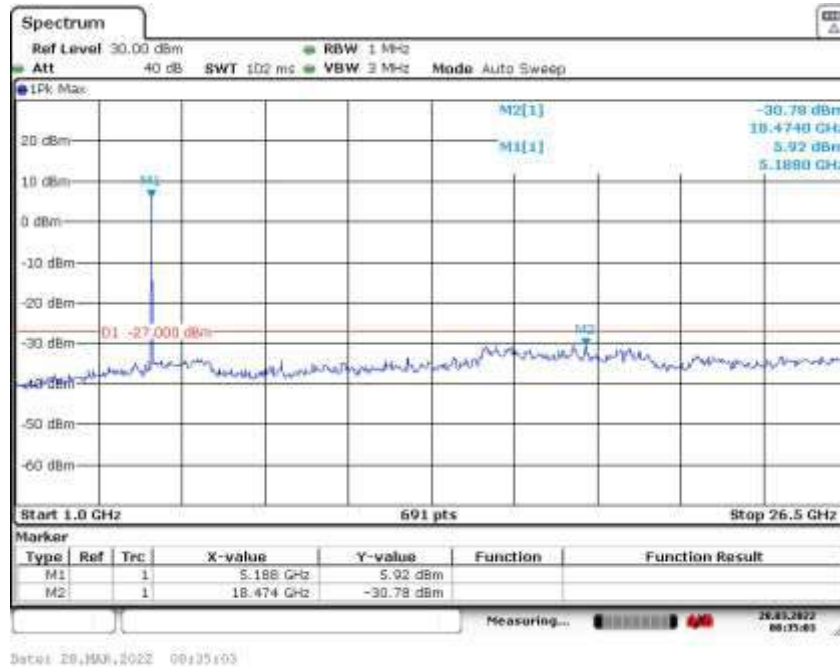
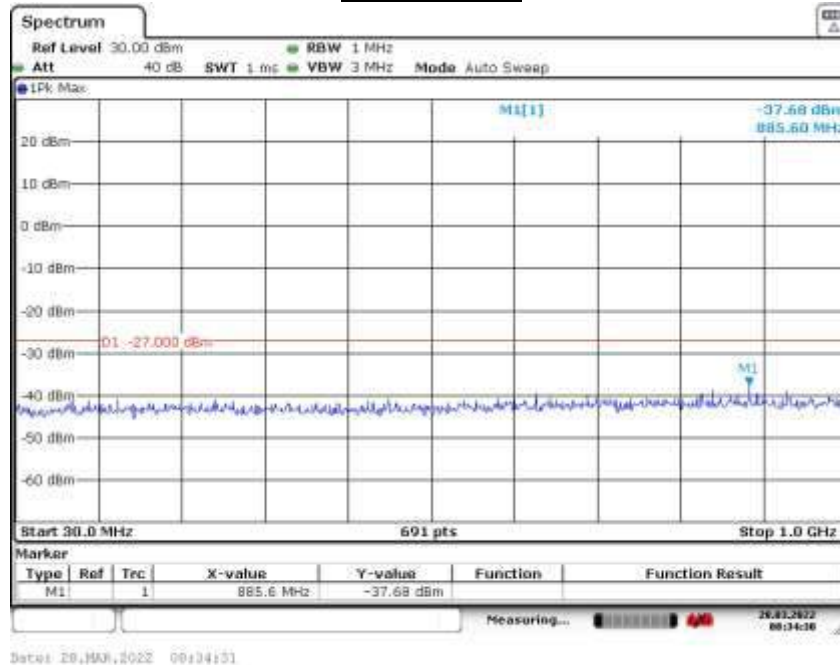


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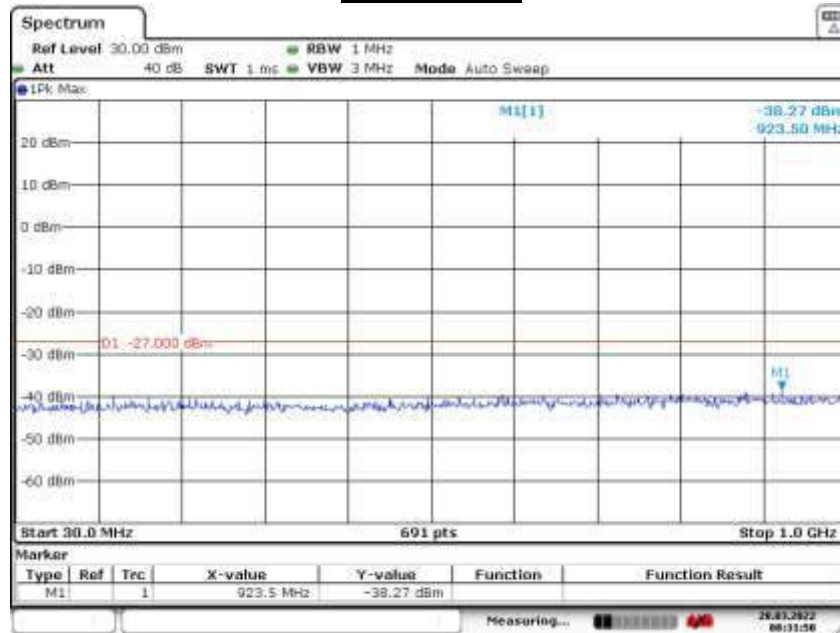
ac40 5.230GHz



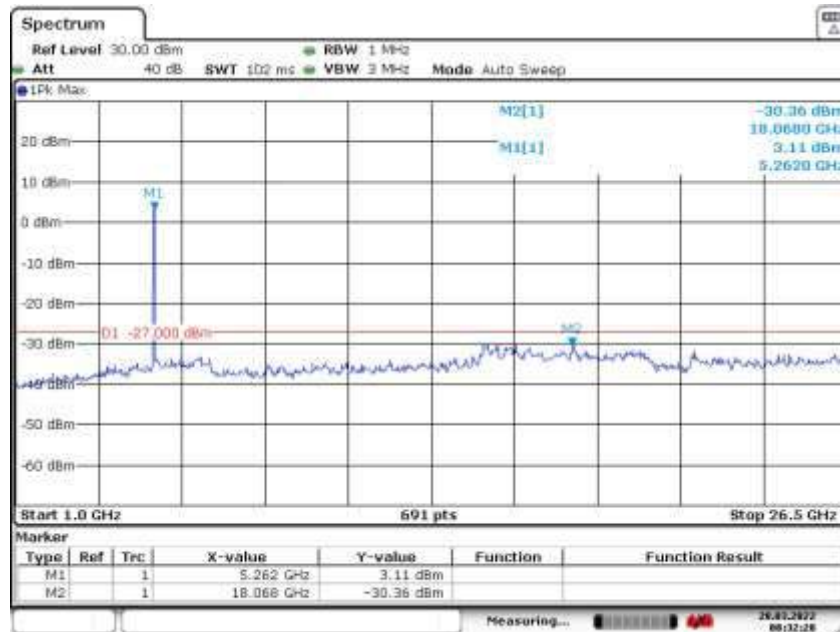
ax20 5.180 GHz



ax20 5.240 GHz

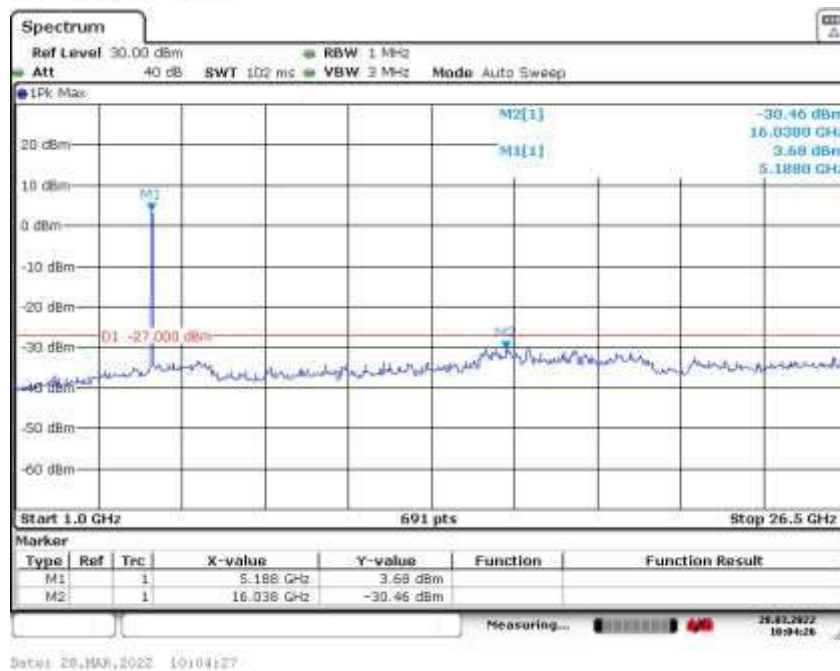
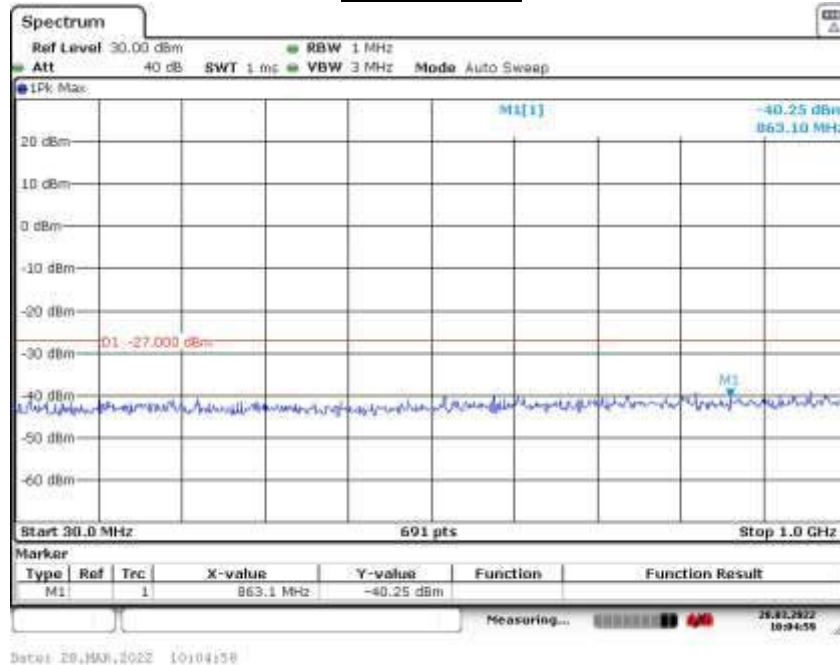


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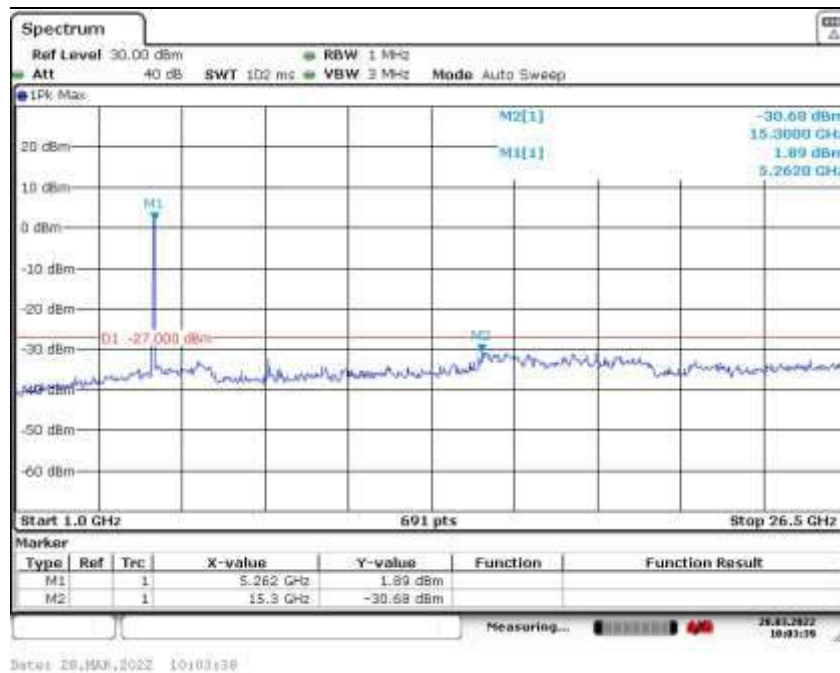
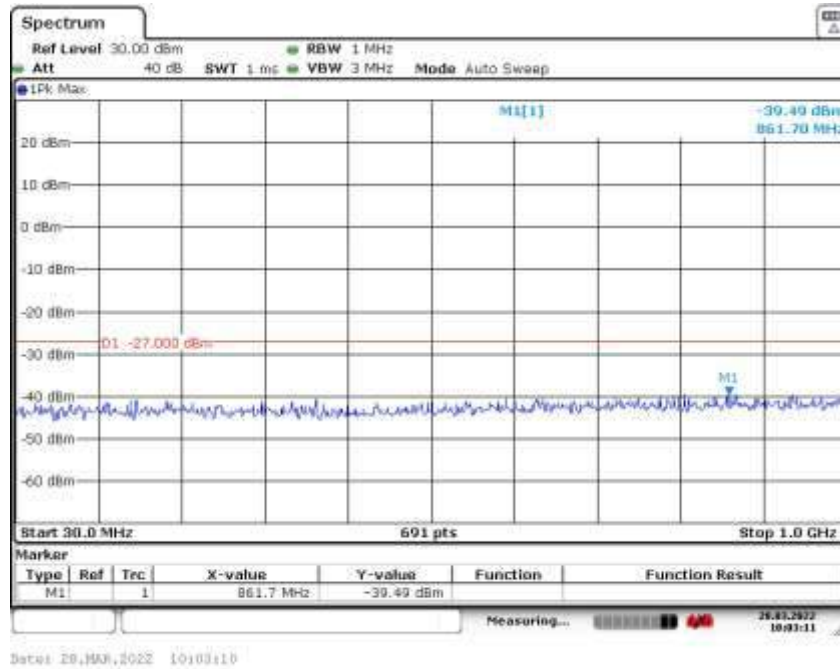
Date: 29, MAR, 2022 00:32:29

ax40 5.190 GHz

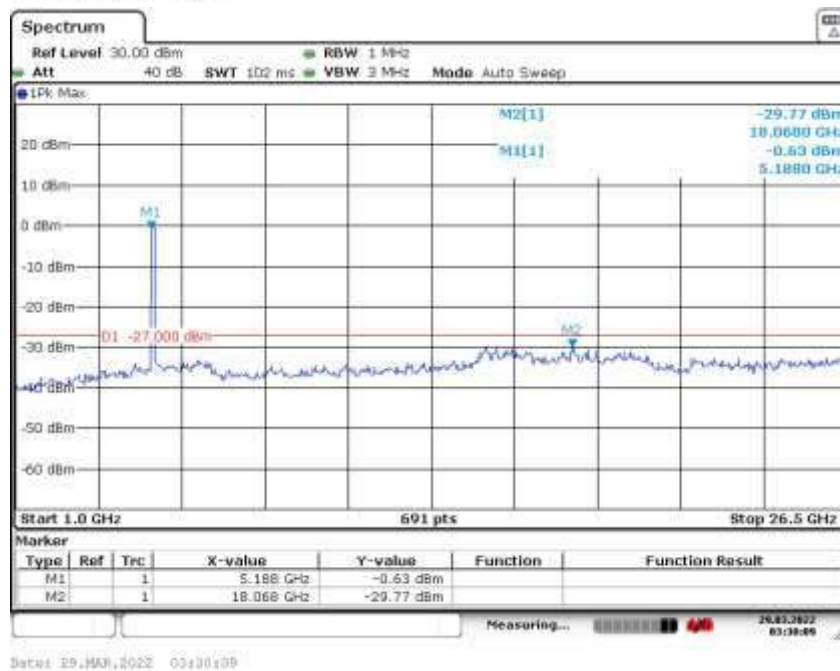
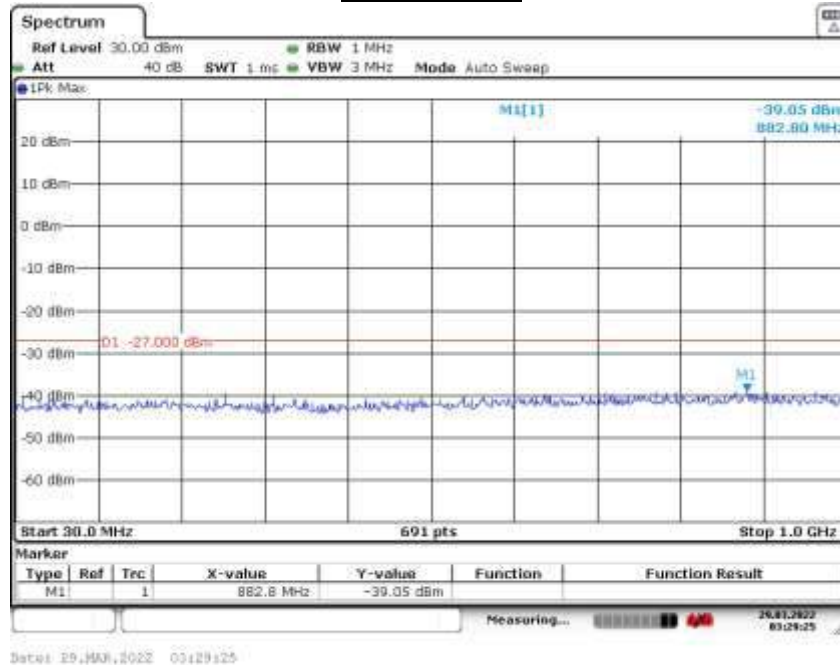


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ax40 5.230 GHz

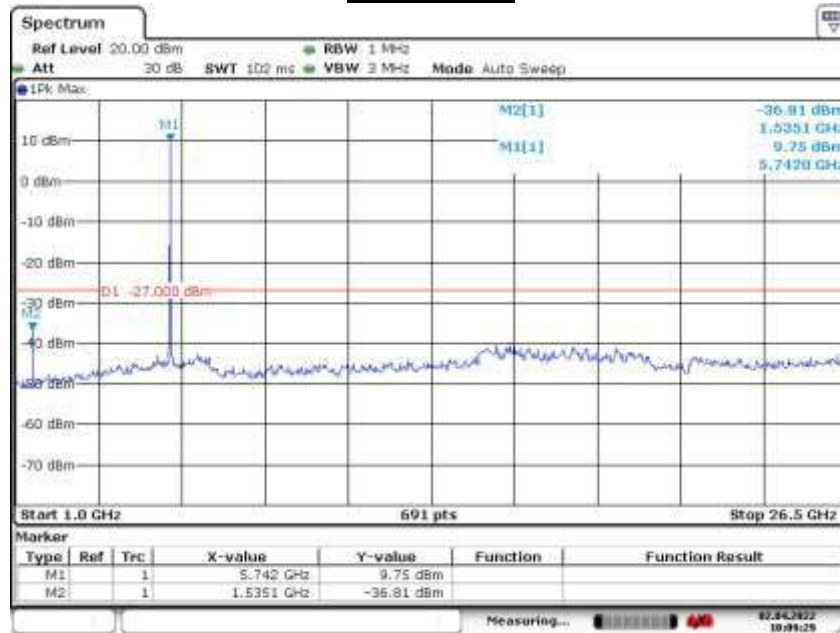


ax80 5.210 GHz

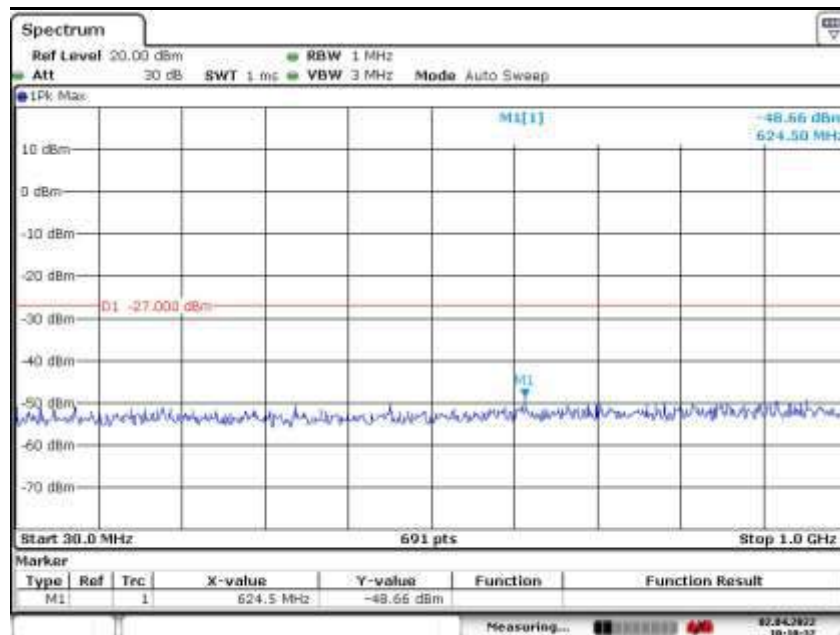


Result plot as follows: 5GM_0

a20 5.745 GHz

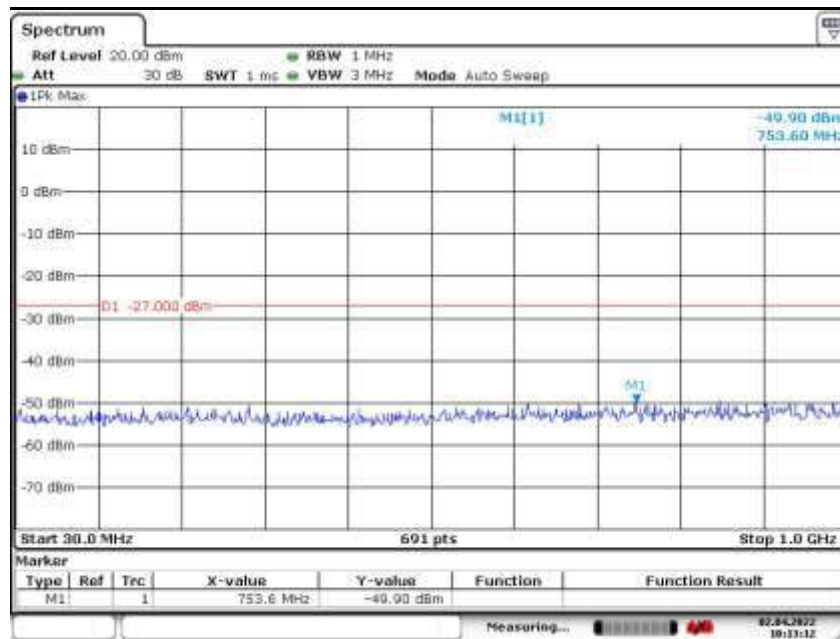
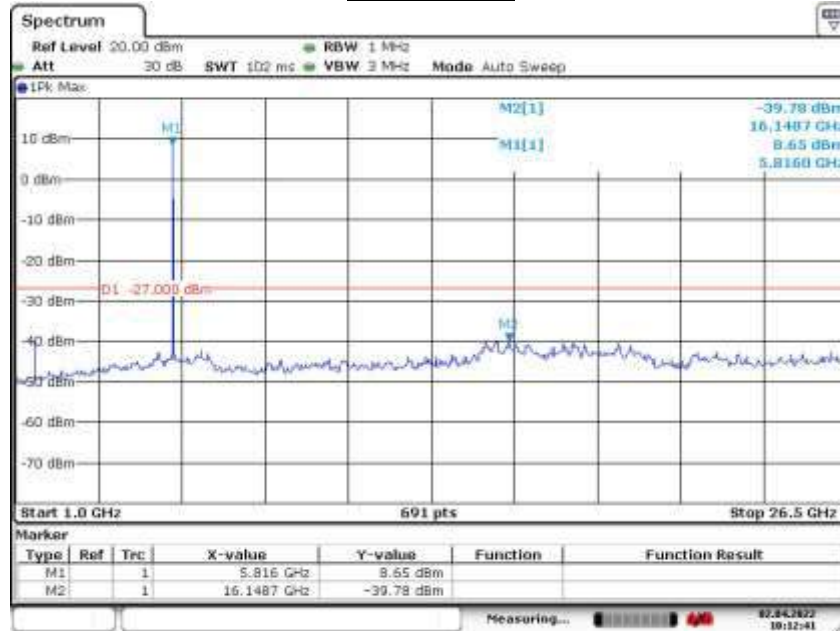


Date: 2.APR:2022 10:09:29

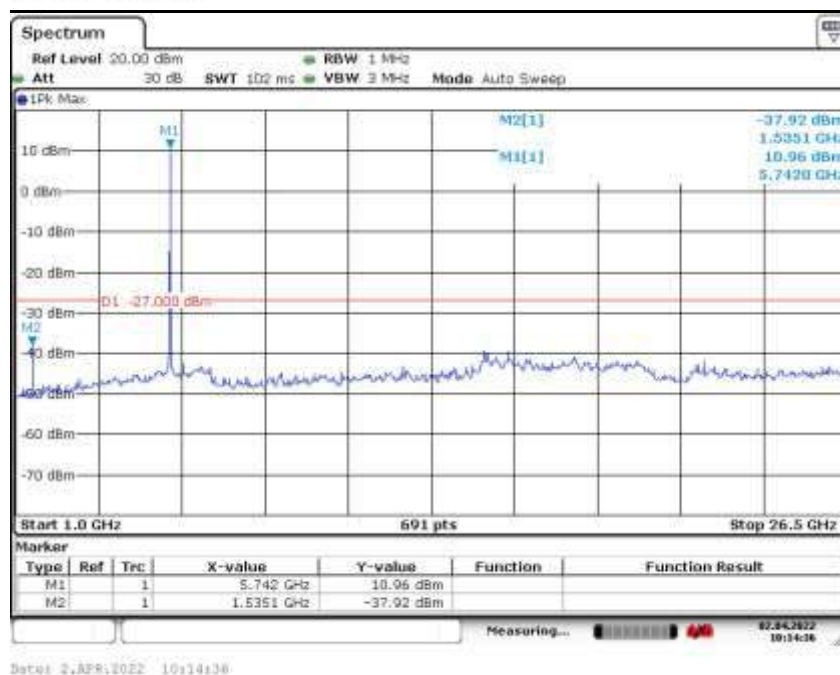
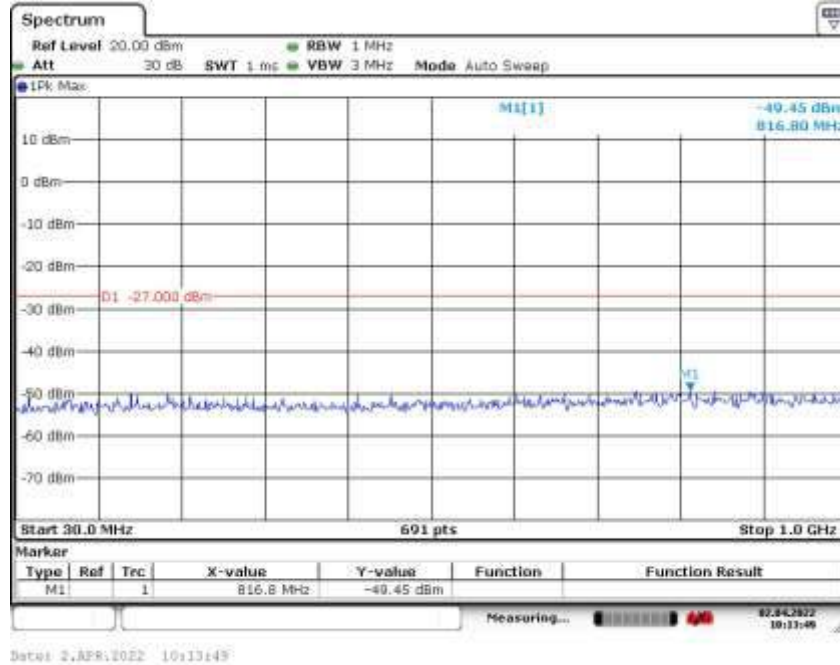


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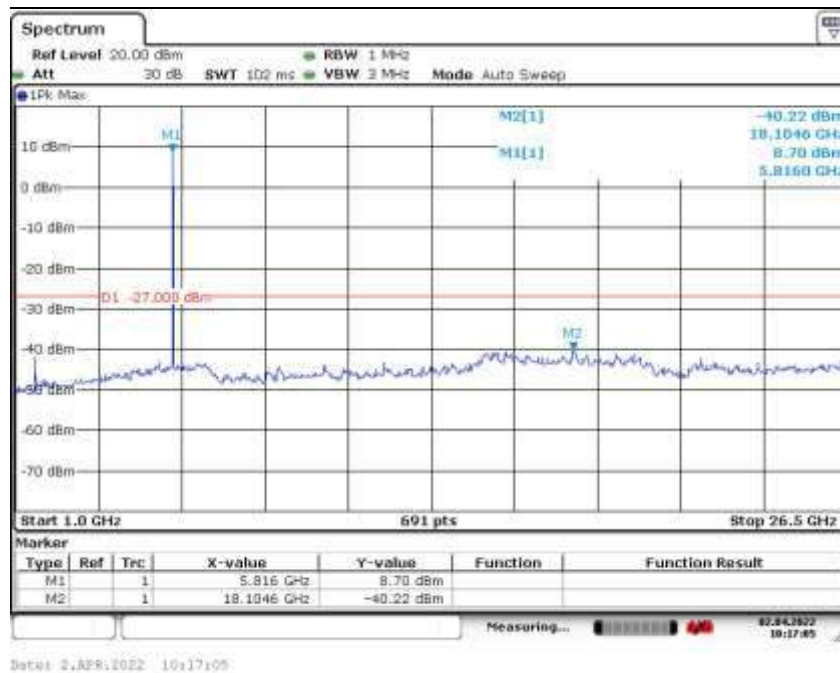
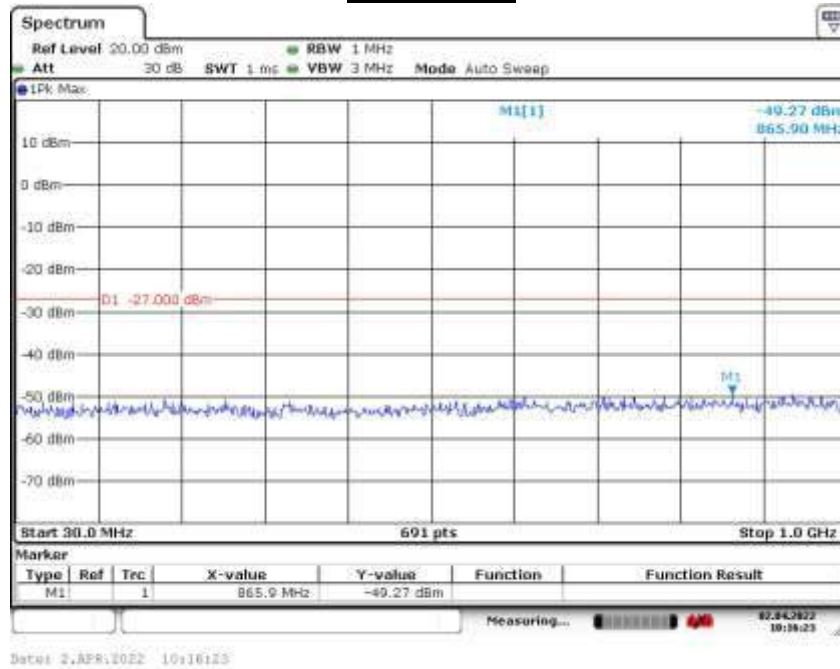
a20 5.825 GHz



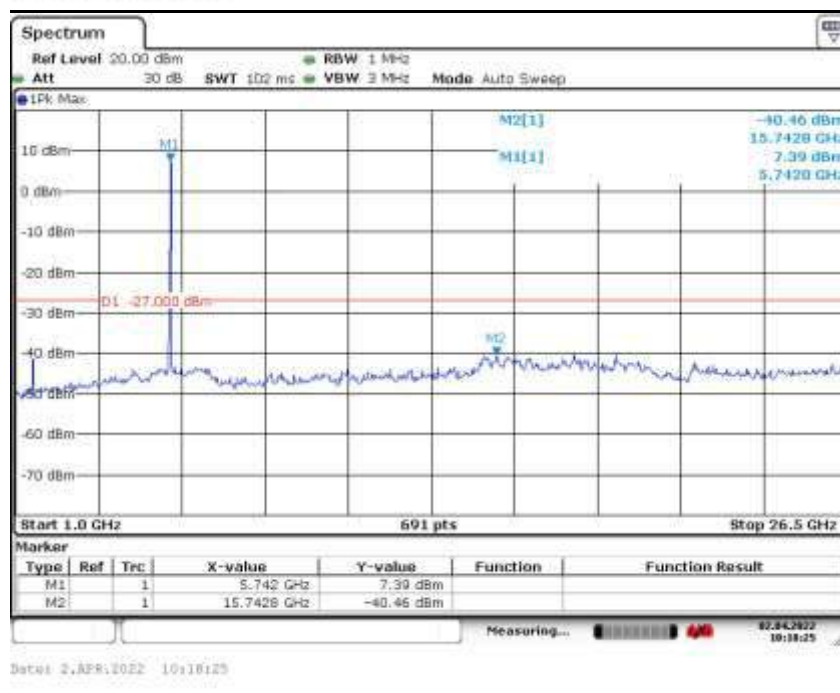
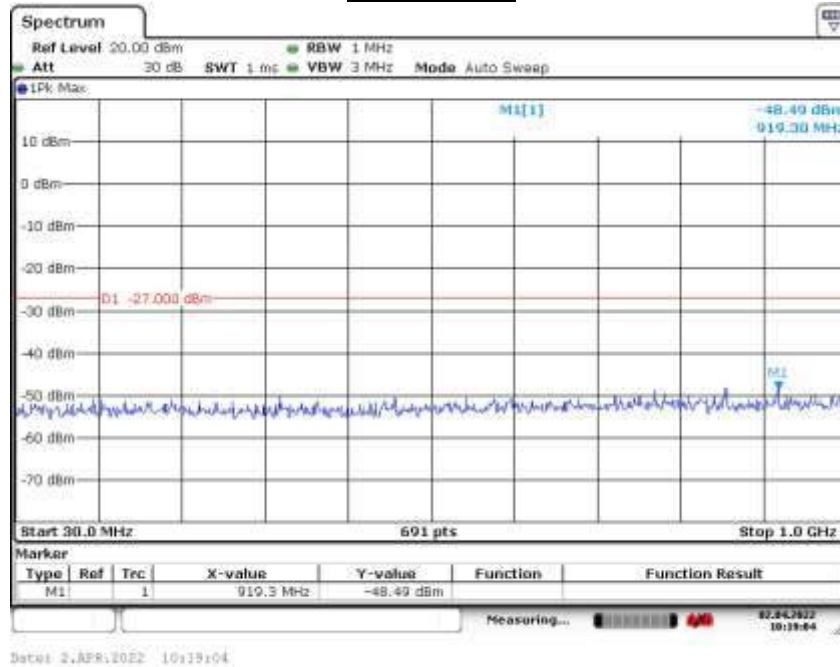
n20 5.745 GHz



n20 5.825 GHz

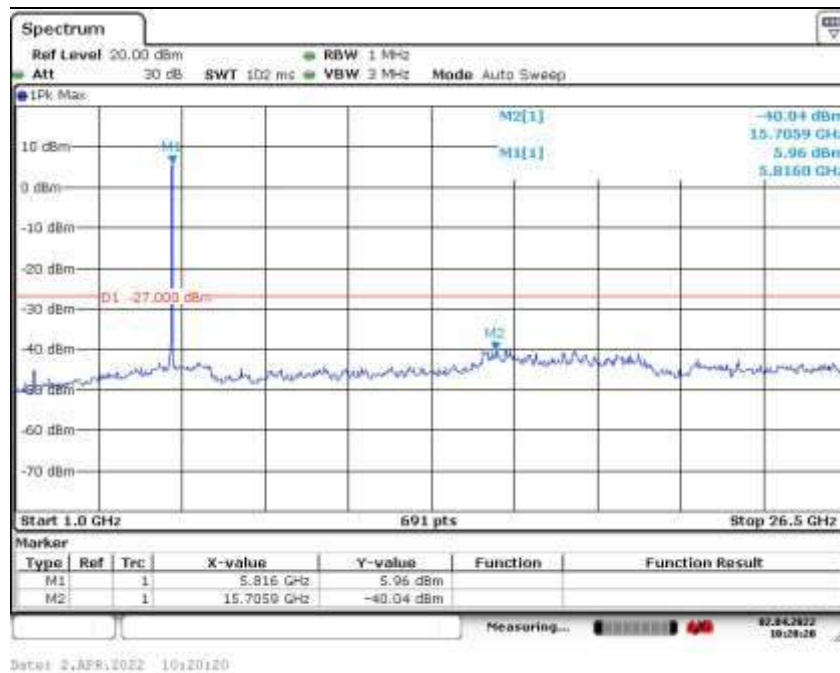
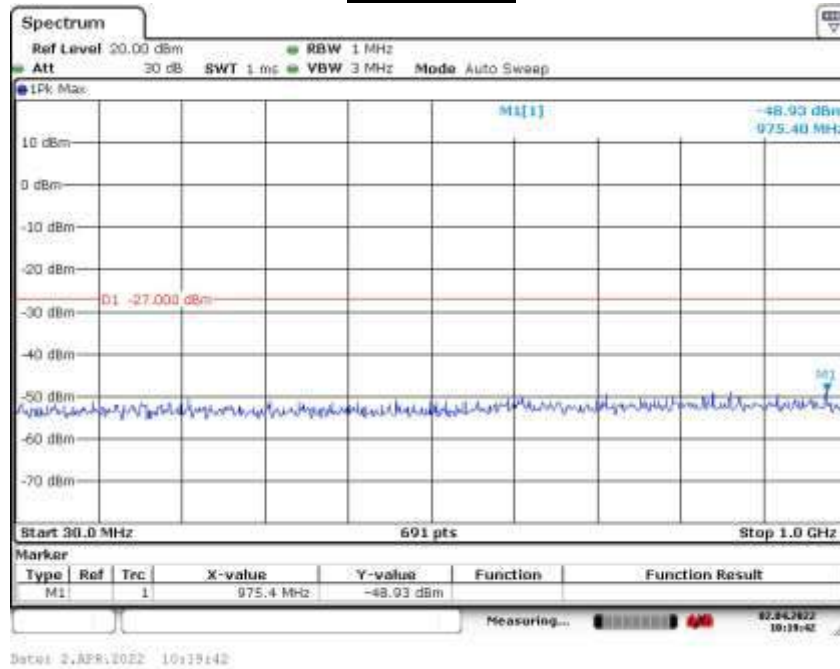


n40 5.755 GHz

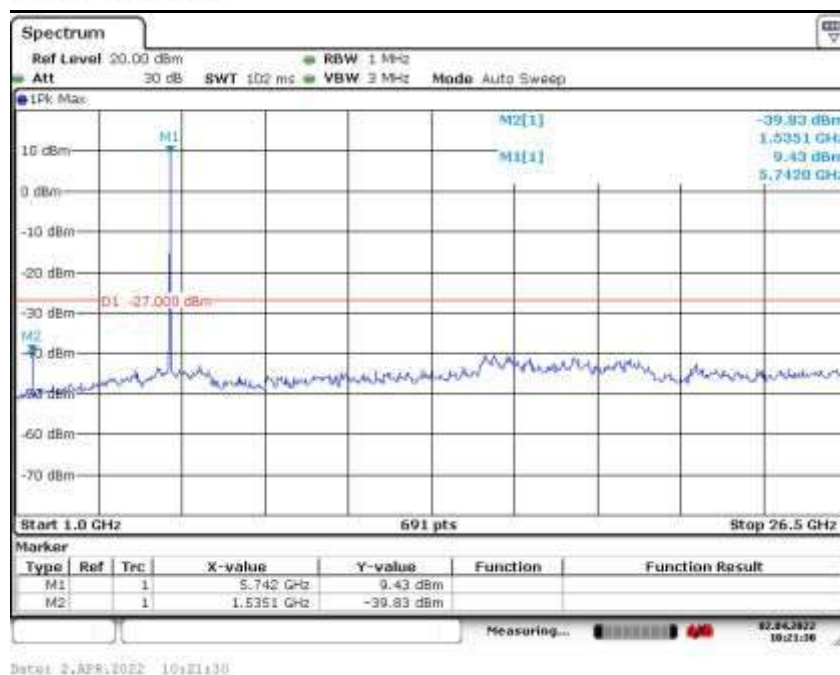
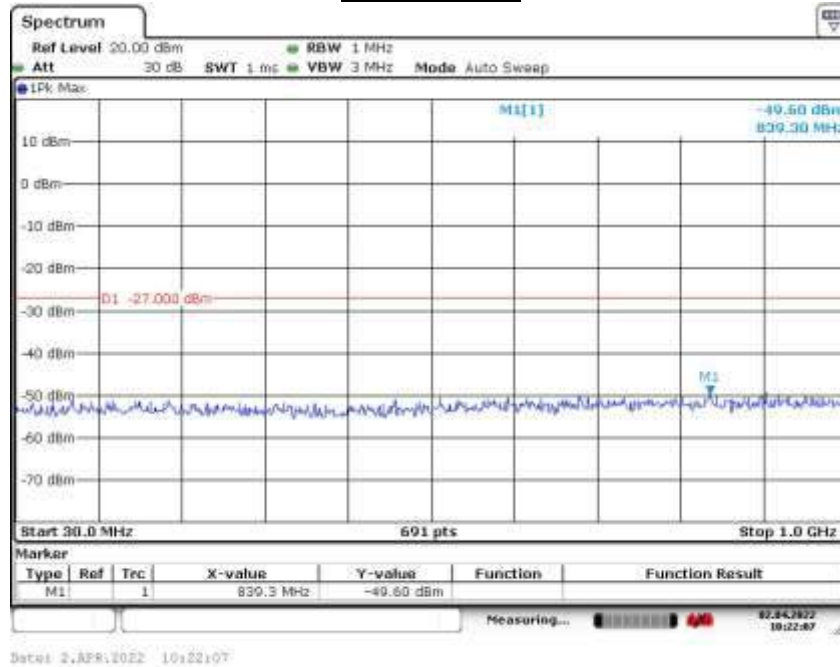


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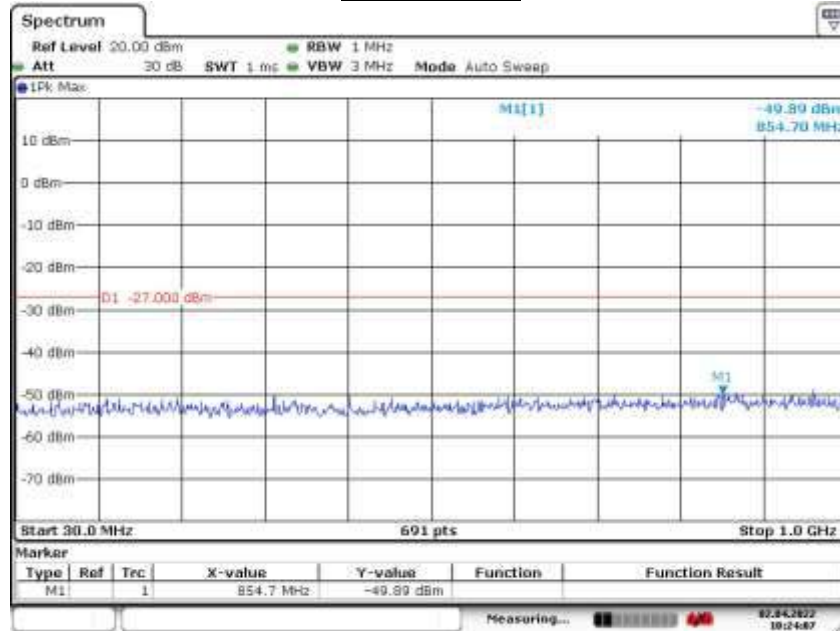
n40 5.795 GHz



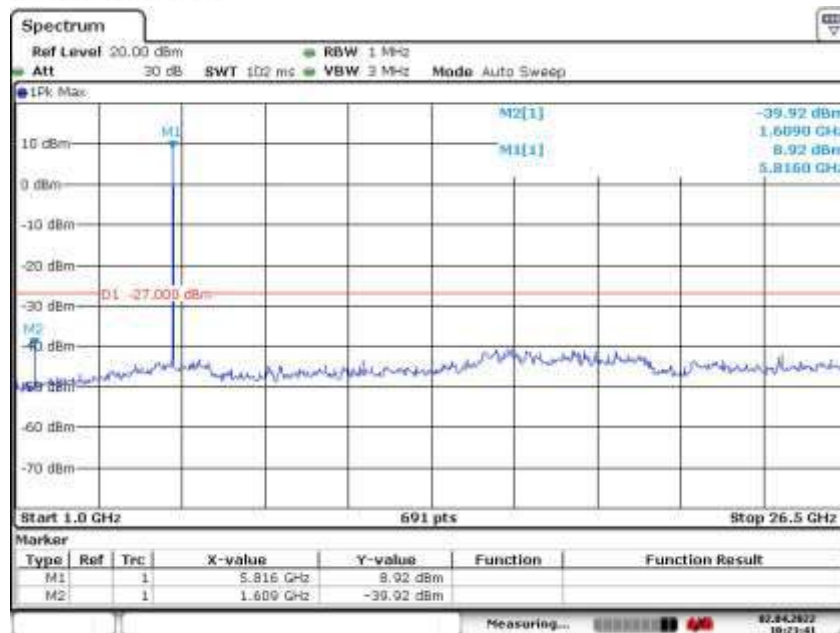
ac20 5.745 GHz



ac20 5.825 GHz

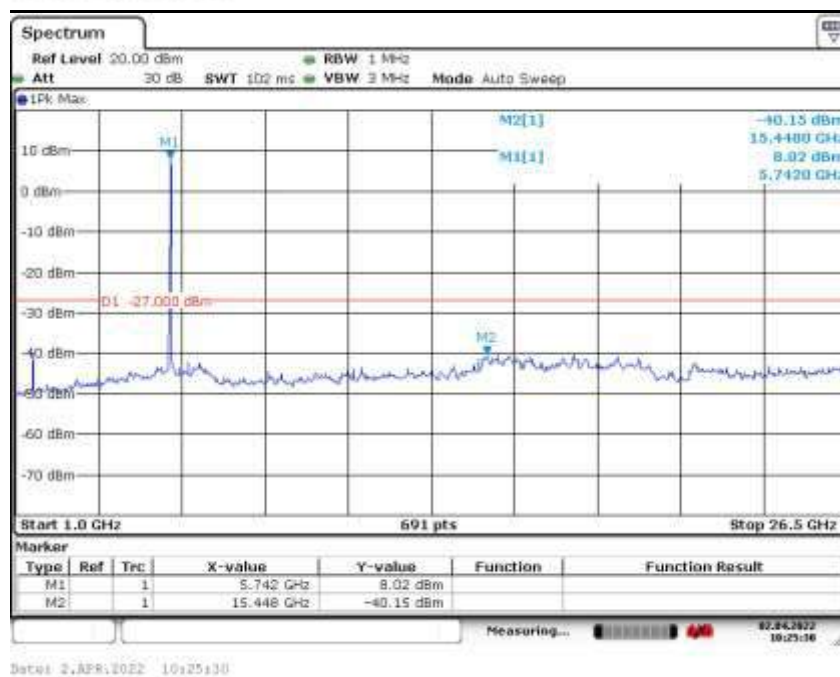
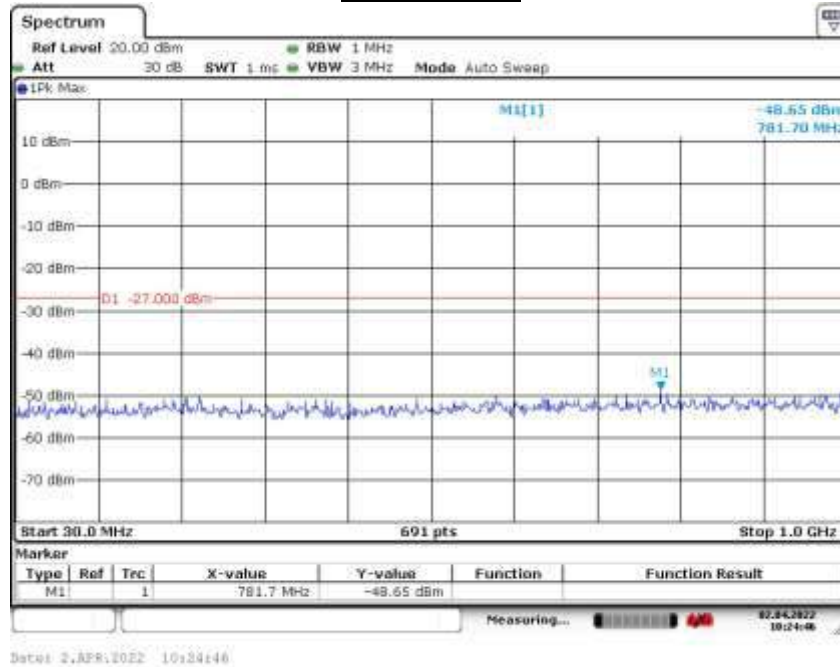


Date: 2.APR.2022 10:24:07

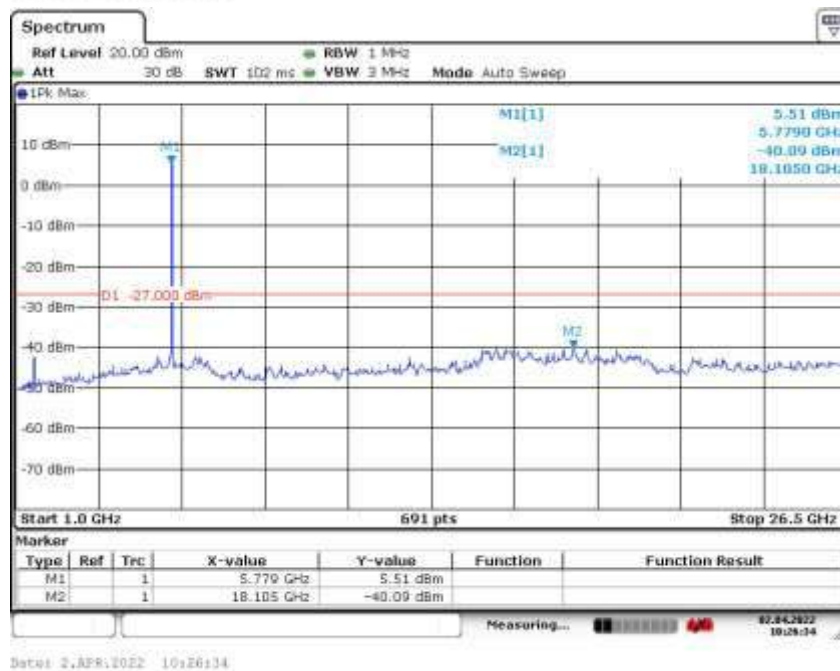
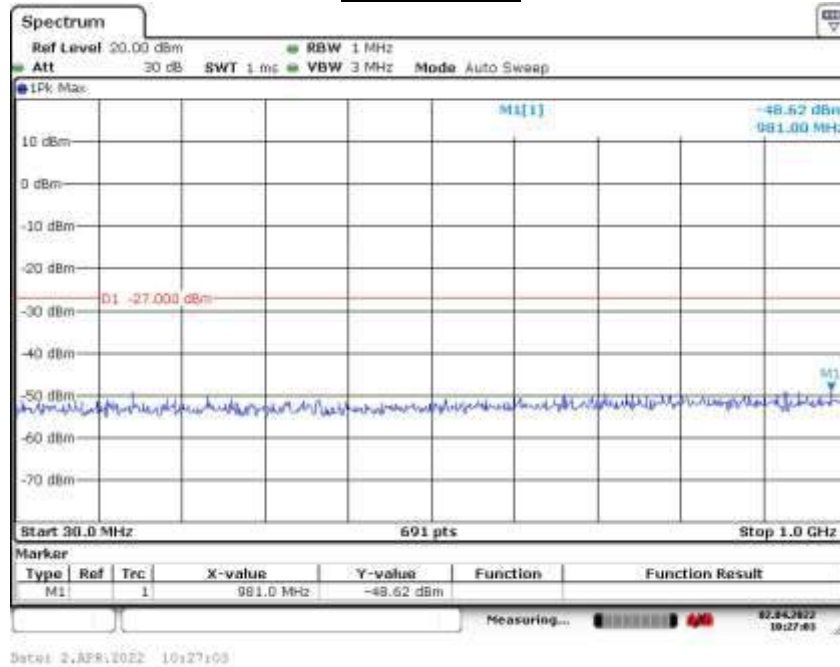


Date: 2.APR.2022 10:23:41

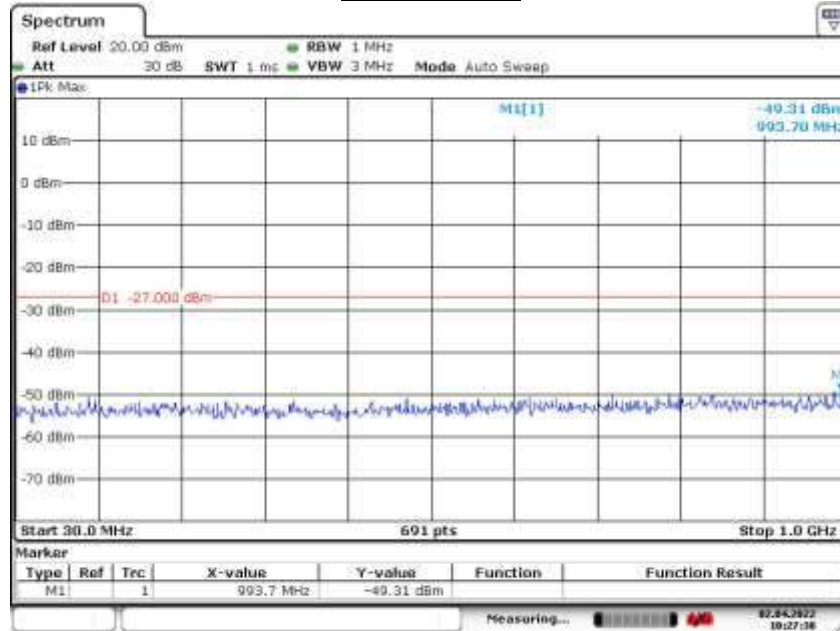
ac40 5.755 GHz



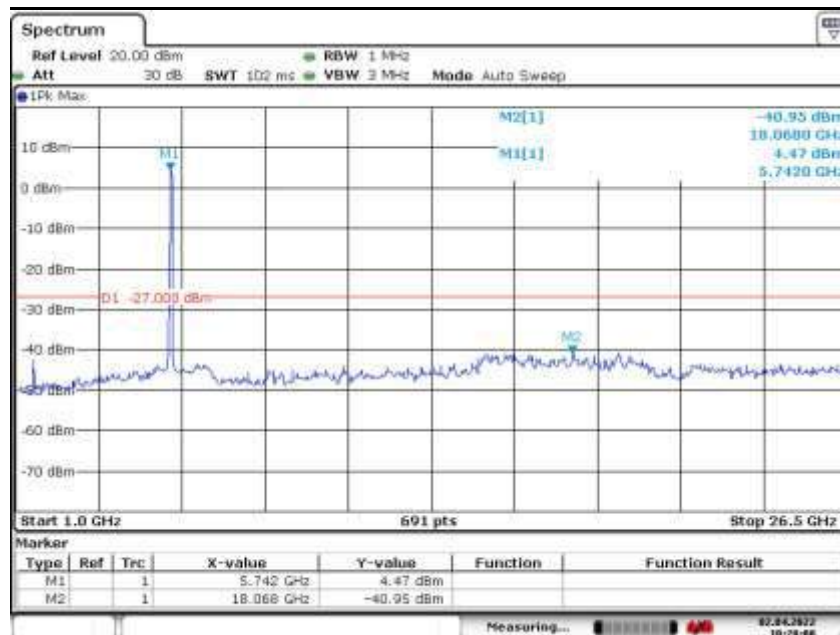
ac40 5.795 GHz



ac80 5.775 GHz

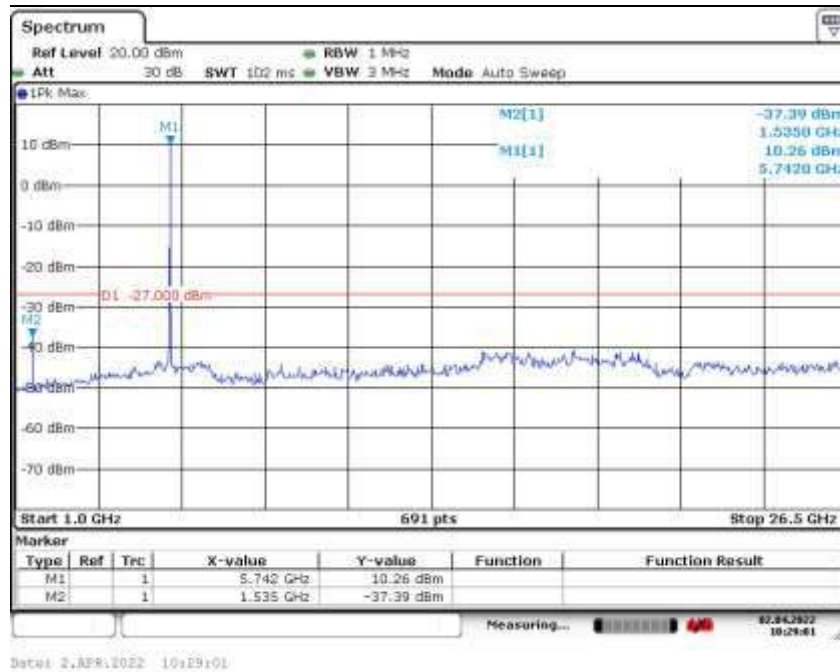
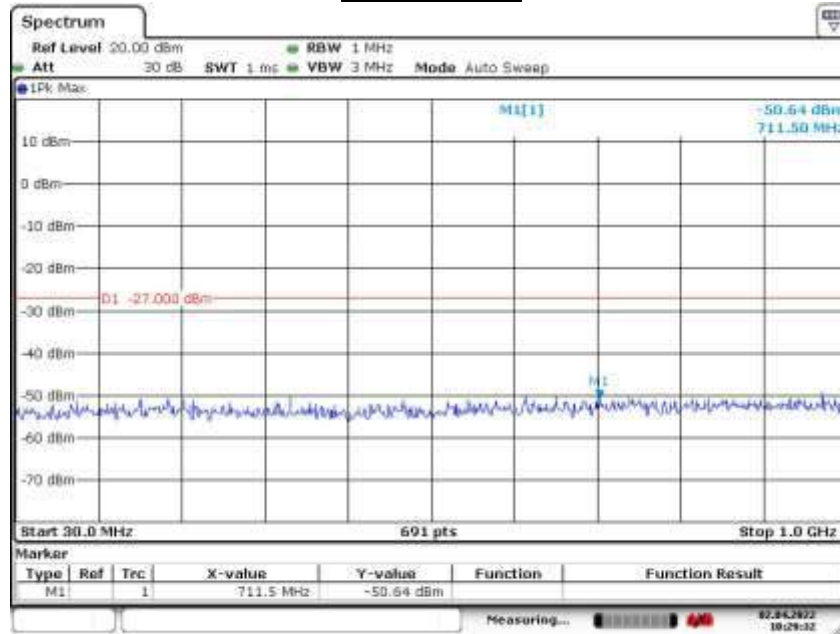


Date: 2.APR.2022 10:27:39

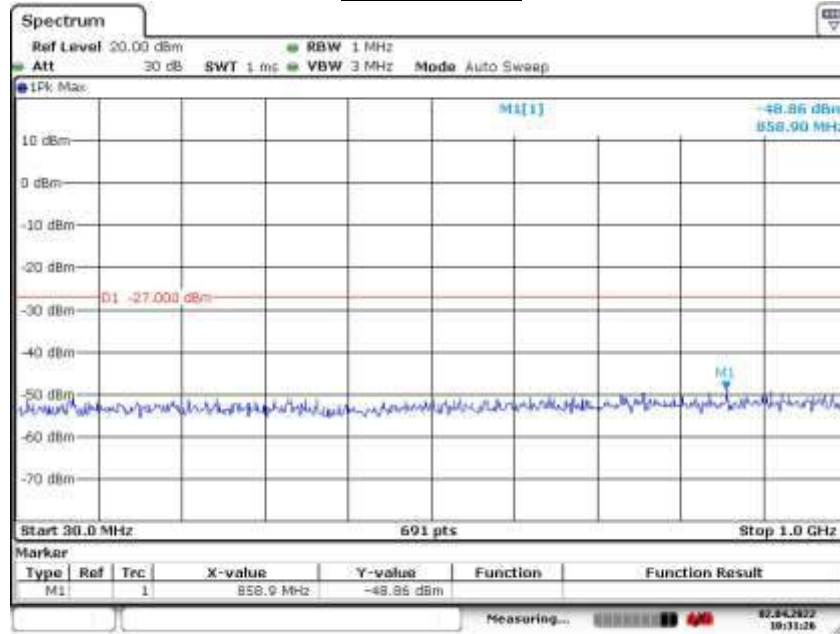


Date: 2.APR.2022 10:28:08

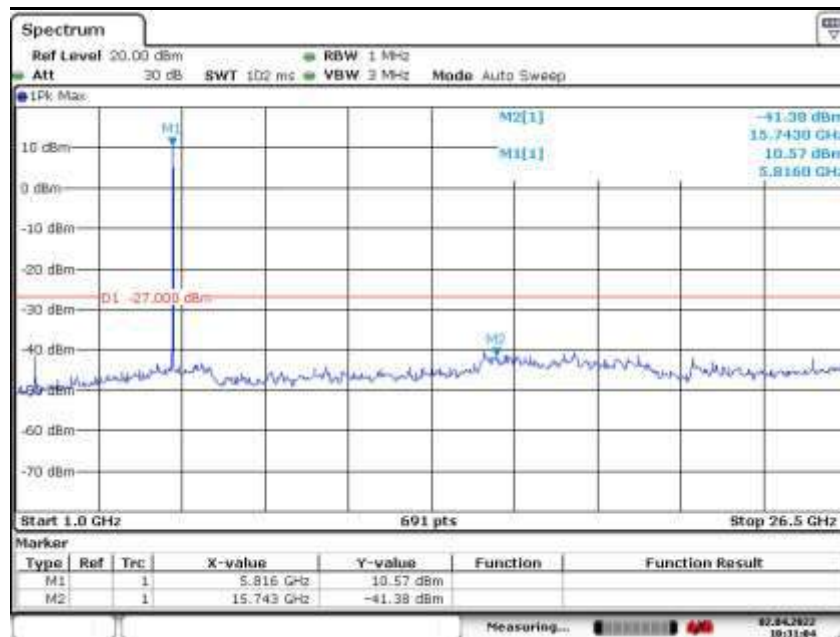
ax20 5.745 GHz



ax20 5.825 GHz



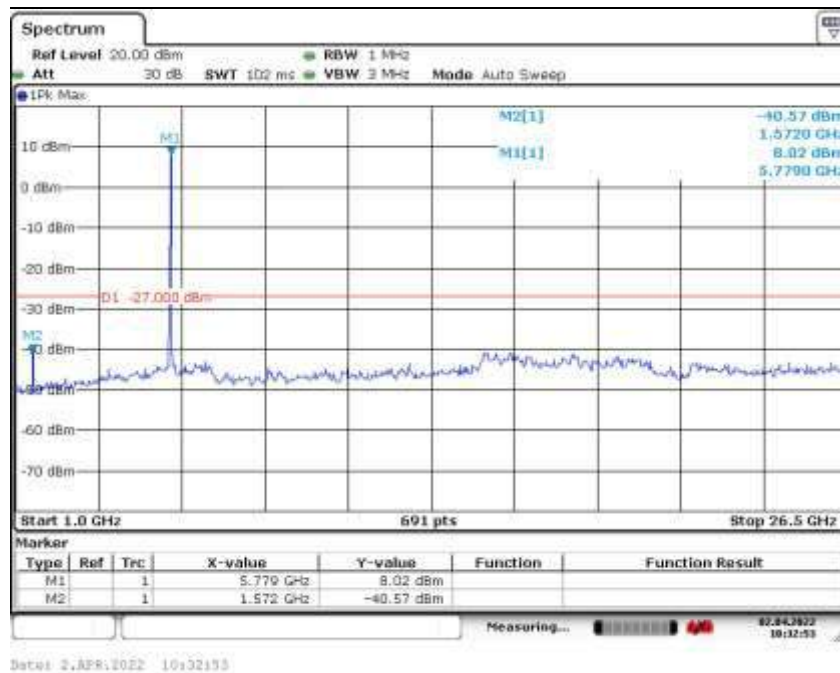
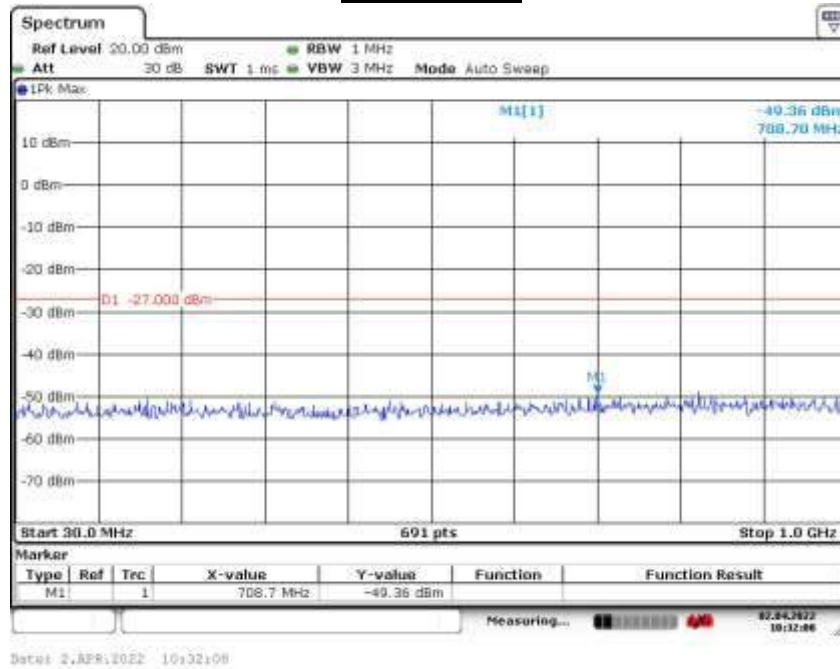
Date: 2.APR:2022 10:31:26



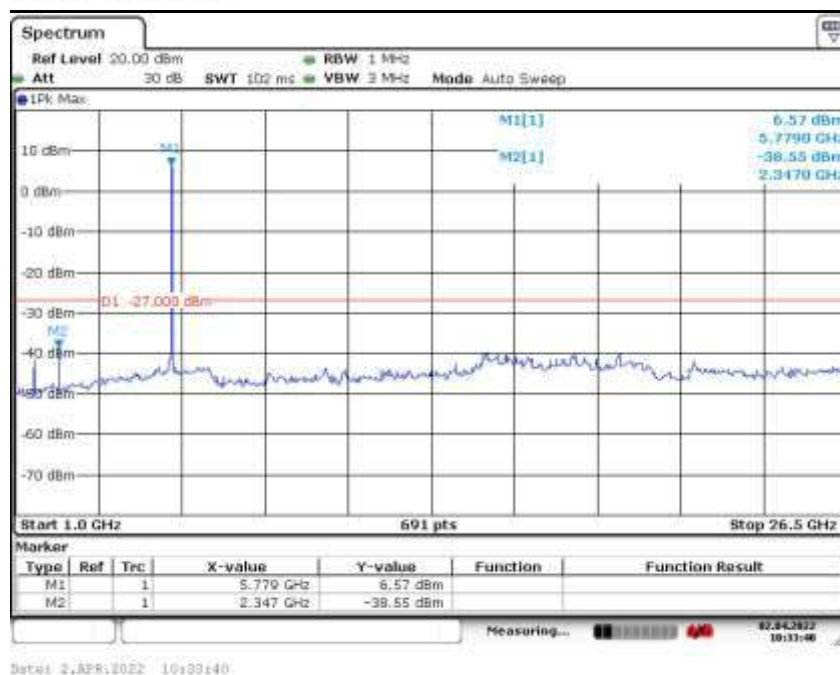
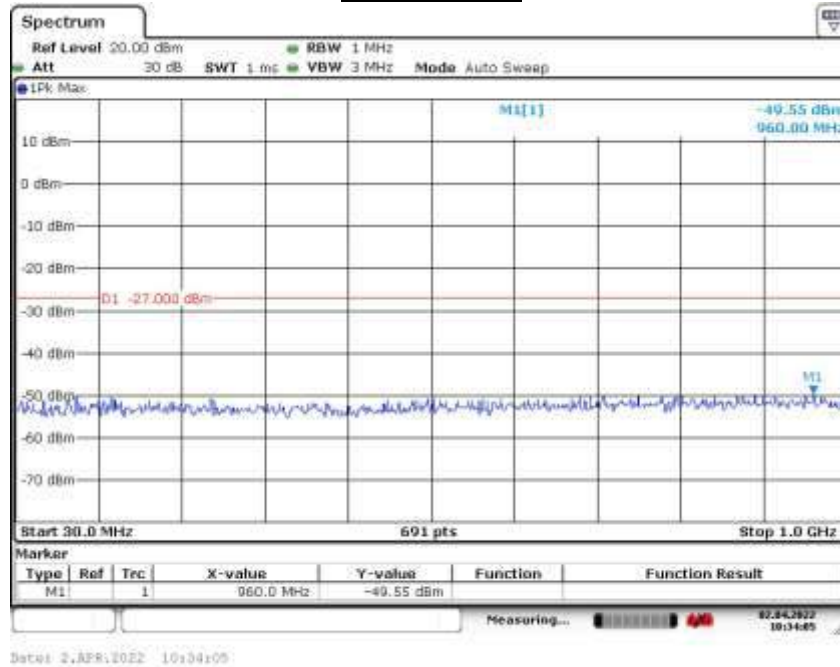
Date: 2.APR:2022 10:31:04

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ax40 5.755 GHz

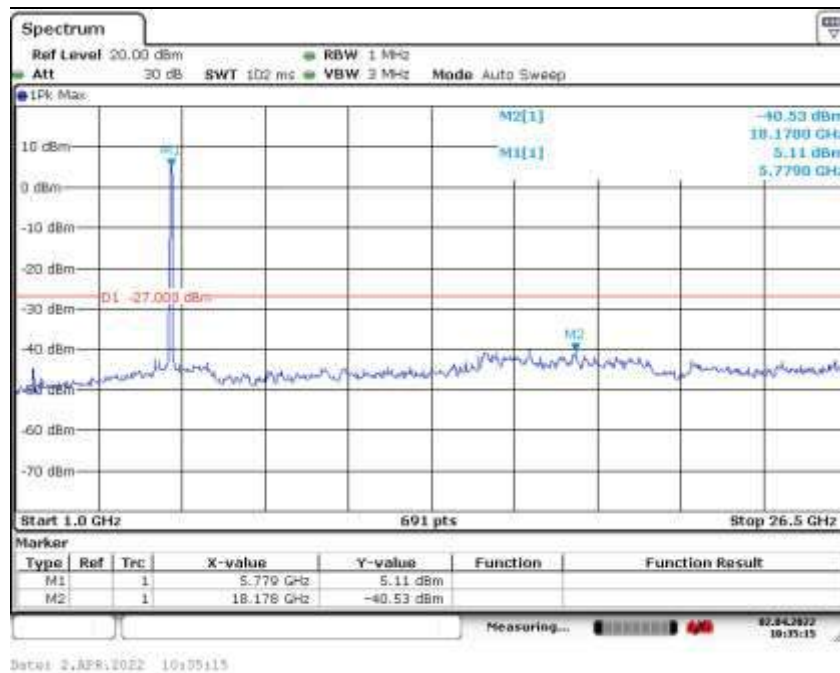
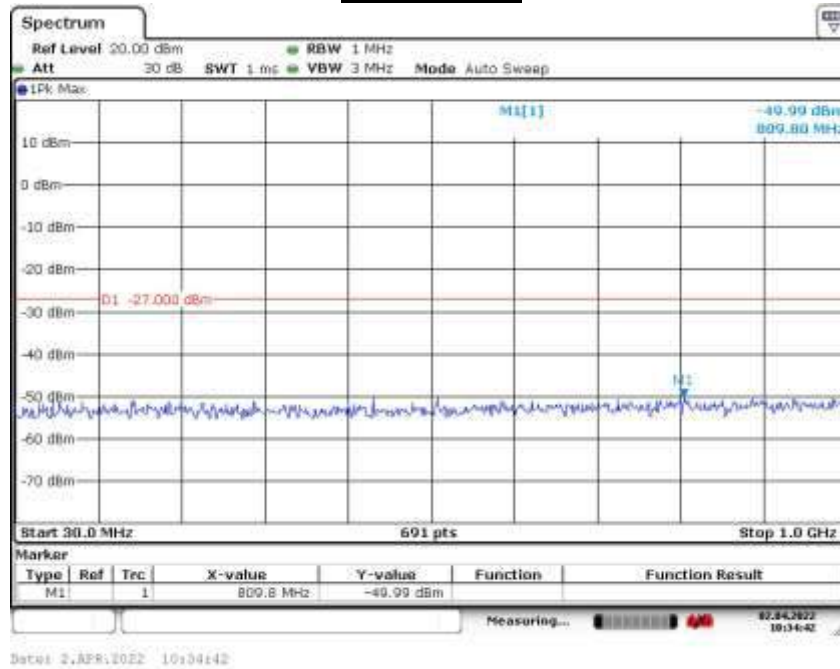


ax40 5.795 GHz



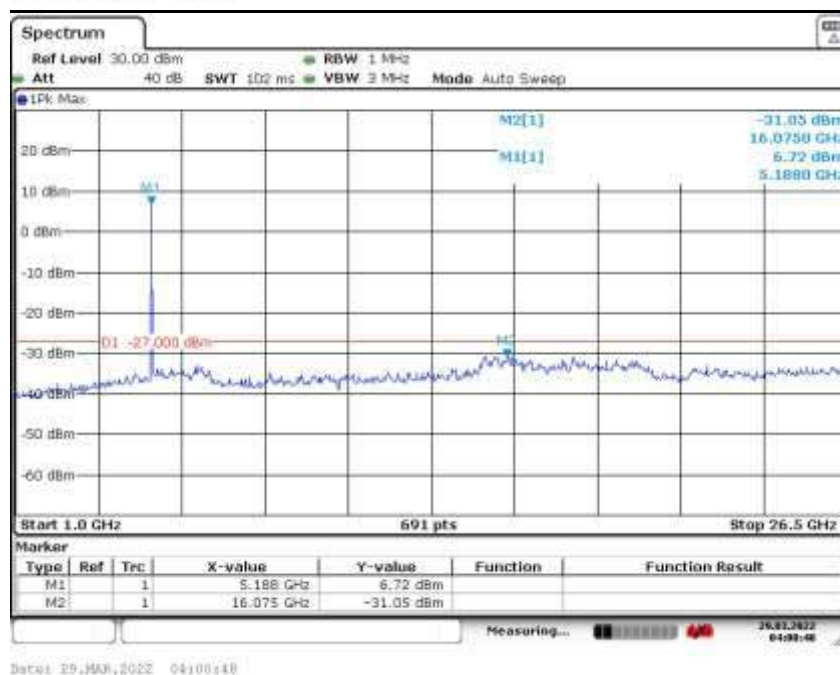
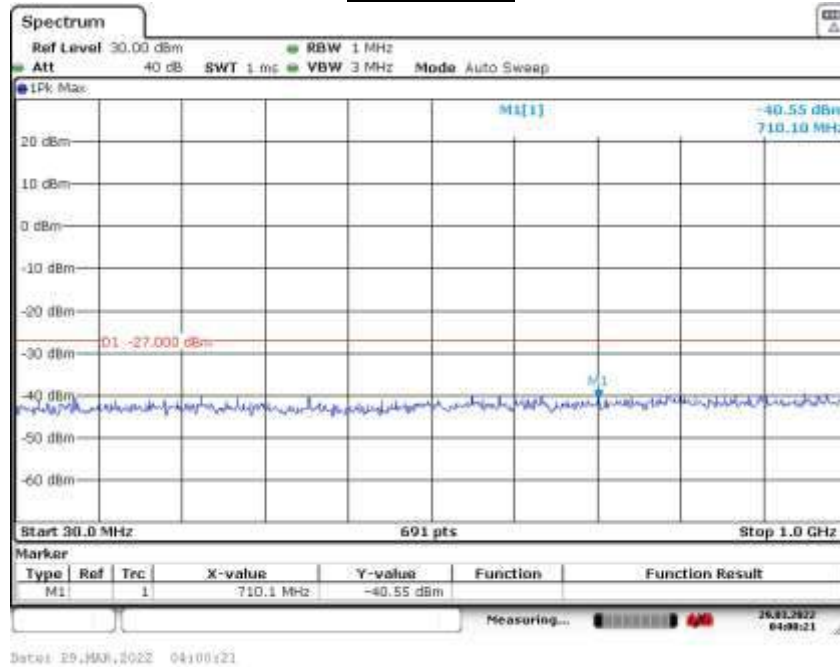
Report No.: AAEMT/EMC/220321-01-06

ax80 5.775 GHz



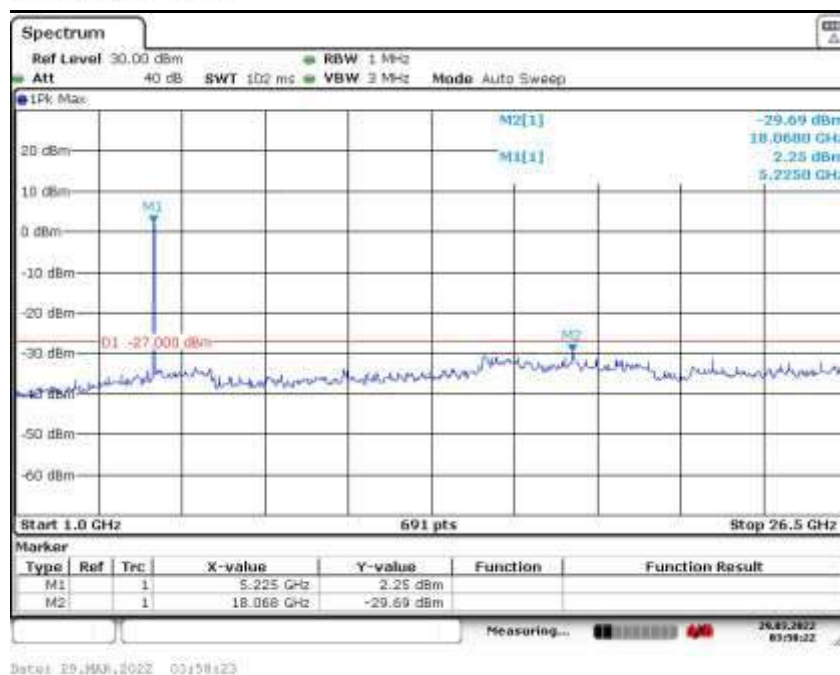
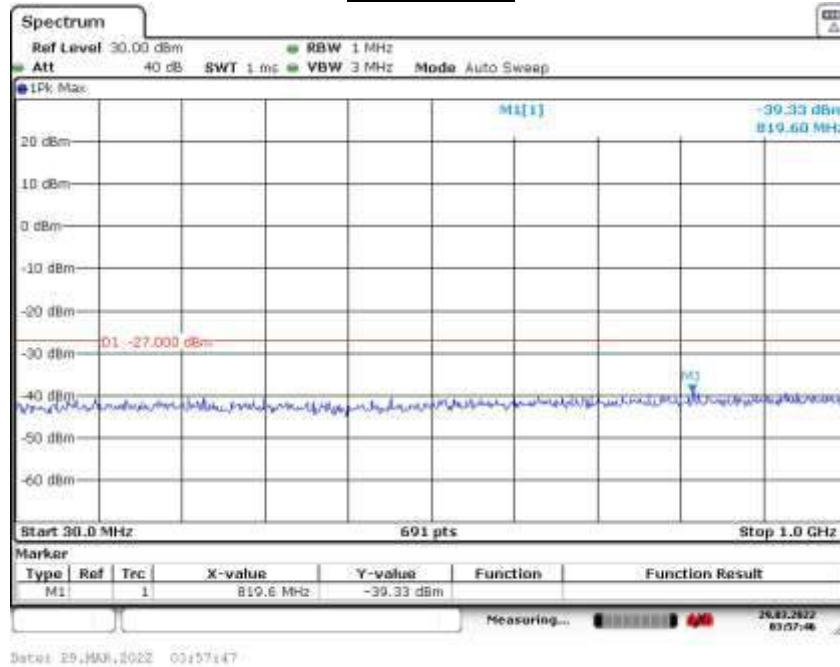
Result plot as follows: 5GS_1

a20 5.180 GHz

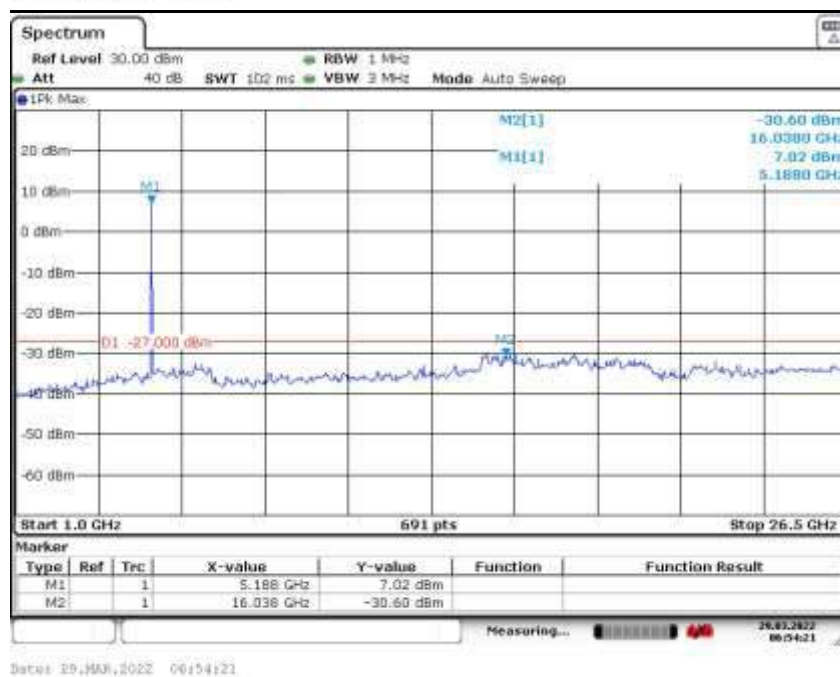
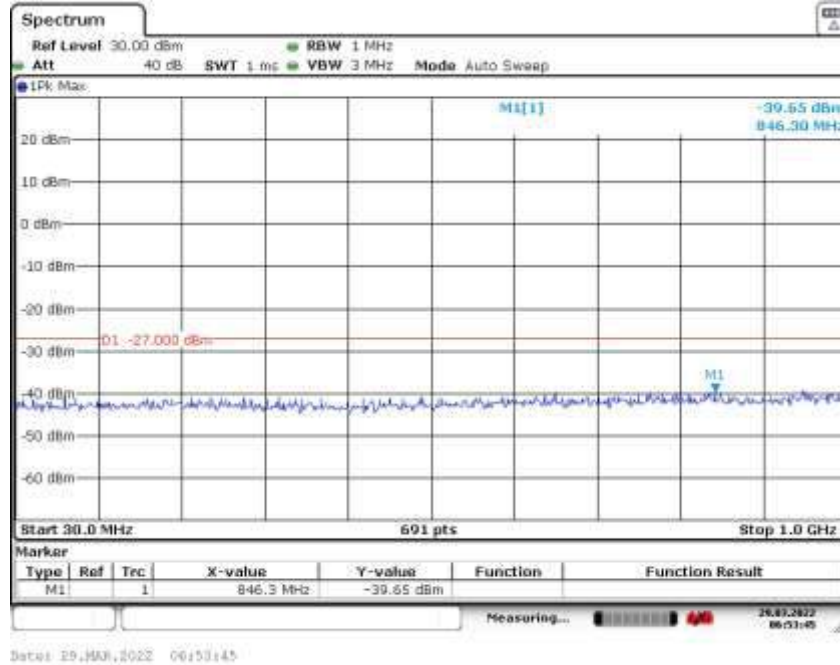


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a20 5.240 GHz

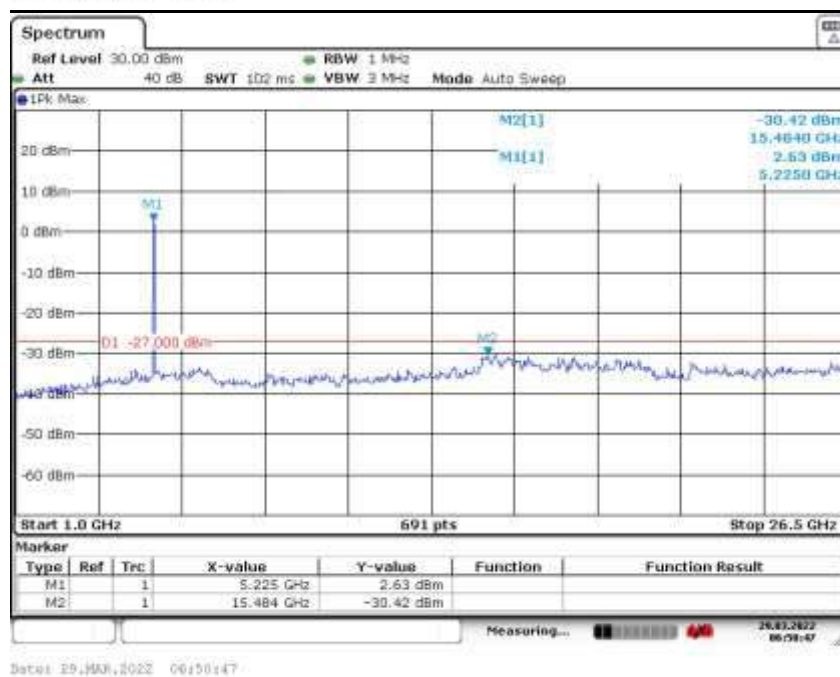
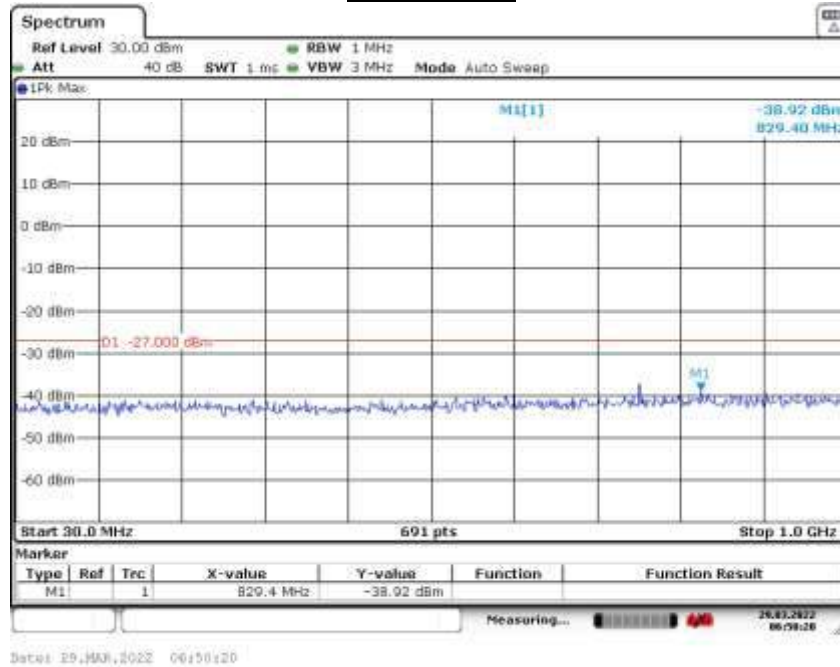


n20 5.180 GHz

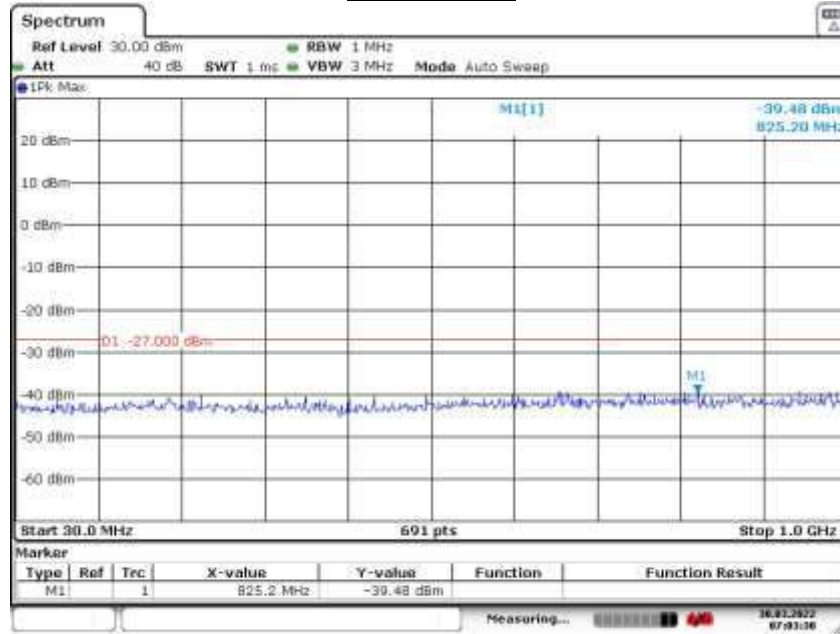


Report No.: AAEMT/EMC/220321-01-06

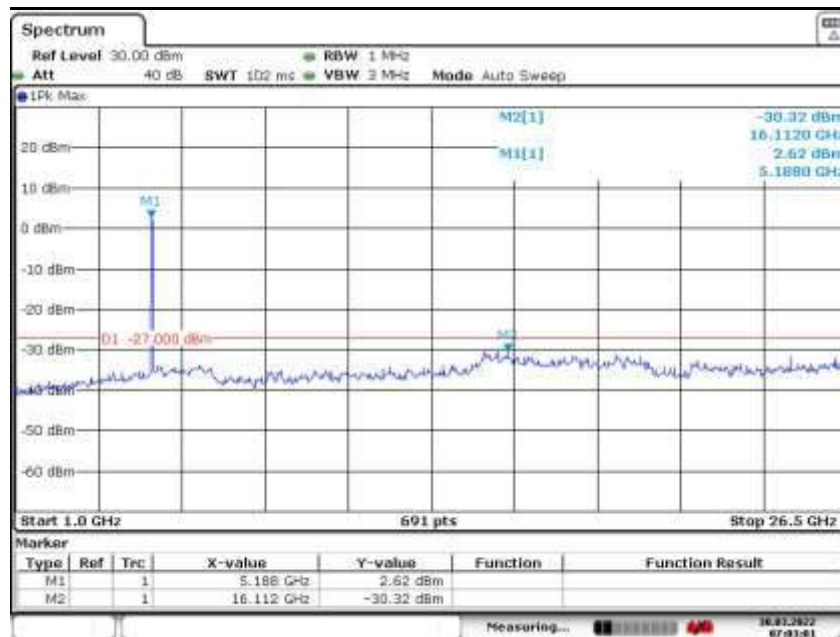
n20 5.240 GHz



n40 5.190 GHz



Date: 30, MAR, 2022 07:03:30



Date: 30, MAR, 2022 07:03:00