

SUNWAY PRODUCTS (HONG KONG) COMPANY LIMITED

TEST REPORT

SCOPE OF WORK

EMC TESTING-SPC-018L

REPORT NUMBER

240731008GZU-002

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DOCUMENT CONTROL NUMBER

FCC WIFI 5G_ALL band

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TEST REPORT

Applicant Name & : SUNWAY PRODUCTS (HONG KONG) COMPANY LIMITED
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SHATIN, NT, HONG KONG, China
Manufacturing Site : Same as applicant
Intertek Report No: 240731008GZU-002
FCC ID: 2ATAD-SPC-018L

Test standards

47 CFR PART 15 Subpart E: 2023 section 15.407

Sample Description

Product : Pressure Cooker
Model No. : SPC-018L
Electrical Rating : 120VAC 50/60Hz 1200W
Serial No. : Not Labeled
Date Received : 31 July 2024
Date Test : 04 September 2024-14 September 2024
Conducted

Prepared and Checked By



Elena Lei
Project Engineer

Approved By:



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Sr. Project Engineer

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TEST REPORT

CONTENT

TEST REPORT	1
CONTENT	3
1.0 TEST RESULT SUMMARY	4
2.0 GENERAL DESCRIPTION	5
2.1 PRODUCT DESCRIPTION	5
2.2 RELATED SUBMITTAL(S) GRANTS	8
2.3 TEST METHODOLOGY	8
2.4 TEST FACILITY	9
3.0 SYSTEM TEST CONFIGURATION	9
3.1 JUSTIFICATION	9
3.2 EUT EXERCISING SOFTWARE	10
3.3 SPECIAL ACCESSORIES	10
3.4 MEASUREMENT UNCERTAINTY	10
3.5 EQUIPMENT MODIFICATION	11
3.6 SUPPORT EQUIPMENT LIST AND DESCRIPTION	11
4.0 MEASUREMENT RESULTS	12
4.1 ANTENNA REQUIREMENT	12
4.2 DUTY CYCLE	13
4.3 26 DB BANDWIDTH	23
4.4 6 DB BANDWIDTH	45
4.5 MAXIMUM CONDUCTED OUTPUT POWER	52
4.6 MAXIMUM PEAK POWER SPECTRAL DENSITY	55
4.7 RADIATED SPURIOUS EMISSIONS	96
4.8 BAND EDGES REQUIREMENT	110
4.9 FREQUENCY STABILITY TEST	138
4.10 CONDUCTED EMISSION TEST	138
5.0 TEST EQUIPMENT LIST	140

TEST REPORT

1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C clause 15.203	FCC PART 15 C clause 15.247 (c) and clause 15.203	PASS
26 dB Bandwidth / 99% Occupied Bandwidth	FCC PART 15 E clause 15.407(a)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause C&D	PASS
6 dB Bandwidth	FCC PART 15 E clause 15.407(e) Only for band IV	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause C	PASS
Maximum Conducted Output Power	FCC PART 15 E clause 15.407(a)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause E	PASS
Maximum Peak Power Spectral Density	FCC PART 15 E clause 15.407(a)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause F	PASS
Radiated spurious emission	FCC PART 15 E clause 15.407(b)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause G	PASS
Band Edge	FCC PART 15 E clause 15.407(b)	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause G	PASS
Frequency Stability	FCC PART 15 E clause 15.407(g)	ANSI C63.10: clause 6.8	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 E section 15.207	ANSI C63.10: Clause 6.2	PASS
Remark: N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report. Pretest on all channel for each mode (a, n20, n40, ac20, ac40, ac80) of the brand I, brand II, brand III and brand IV, Pretest on all rates, and only the data of the smallest rates of modes a, n20, n40, ac80 are retained in the report. The Bluetooth function of the wireless module is disabled. The USB port at the bottom of the prototype is only used for setting by the factory and is not open to the user.			

TEST REPORT

2.0 General Description

2.1 Product Description

Operating Frequency:	Band I 5150 MHz to 5250 MHz Band I 5250 MHz to 5350 MHz Band I 5470 MHz to 5725 MHz Band IV 5725 MHz to 5850MHz for 802.11a/n-HT20(20MHz), 802.11n-HT40(40MHz), 802.11ac(20/40/80MHz)
Type of Modulation:	802.11a: MIMO OFDM (BPSK/QPSK/16QAM/64QAM) 802.11an: MIMO OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: MIMO OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)
Transmit Data Rate:	802.11a :6/9/12/18/24/36/48/54 Mbps 802.11an(HT20): MCS0: 7.2Mbps, MCS1:14.2Mbps, MCS2:21.7Mbps, MCS3:28.9Mbps, MCS4:43.3Mbps, MCS5:57.8Mbps, MCS6:65.0Mbps, MCS7:72.2Mbps 802.11an(HT40): MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps 802.11ac(HT20): MCS0: 7.2Mbps, MCS1:14.2Mbps, MCS2:21.7Mbps, MCS3:28.9Mbps, MCS4:43.3Mbps, MCS5:57.8Mbps, MCS6:65.0Mbps, MCS7:72.2Mbps, MCS8: 86.7Mbps 802.11ac(HT40): MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps,MCS6:135Mbps,MCS7:150Mbps,MCS8:180Mbps, MCS9:200Mbps 802.11ac(HT80): MCS0:32.5Mbps, MCS1:65Mbps, MCS2:97.5Mbps, MCS3:130Mbps, MCS4:195Mbps, MCS5:260Mbps,MCS6:292.5Mbps,MCS7:325Mbps,MCS8:390Mbps, MCS9:433.3Mbps
Number of Channels	4 channels for 5180 MHz ~ 5240 MHz (802.11 a/n20/ac-HT20); 2 channels for 5190 MHz ~ 5230 MHz (802.11 n40/ac-HT40); 1 channels for 5210 MHz (802.11ac-HT80); 4 channels for 5260 MHz ~ 5320 MHz (802.11 a/n20/ac-HT20); 2 channels for 5270 MHz ~ 5310 MHz (802.11 n40/ac-HT40); 1 channels for 5290 MHz (802.11ac-HT80); 8 channels for 5500 MHz ~ 5580 & 5660MHz ~ 5700 MHz (802.11a/n20/ac-HT20); 3 channels for 5510 MHz ~ 5550MHz & 5670 MHz (802.11n40/ac- HT40); 1 channels for 5530 MHz (802.11ac-HT80);

TEST REPORT

	5 channels for 5745 MHz ~ 5825 MHz (802.11a/n20/ac-HT20); 2 channels for 5755 MHz ~ 5795 MHz (802.11n40/ac-HT40); 1 channels for 5775 MHz (802.11ac-HT80);
Antenna Type	FPC Antenna
Antenna gain:	ANT 1: 4.36 dBi , ANT 2: 4.17 dBi
Function:	Pressure Cooker with 5 GHz WIFI
EUT Power Supply:	AC 120V 60 Hz
Power cord:	AC supply cable

channels and frequencies list:

Band I 5150 MHz to 5250 MHz

For 802.11a/an (HT20)/ac (HT20): test frequencies are lowest channel 36: 5180 MHz, middle channel 40: 5200 MHz and highest channel 48: 5240.

For 802.11an(HT40)/ac(HT40): test frequencies are lowest channel 38: 5190 MHz and highest channel 46: 5230 MHz

For 802.11ac(HT80): test frequencies is channel 42: 5210 MHz

Band II 5250MHz-5350MHz

For 802.11a/an (HT20)/ac (HT20): test frequencies are lowest channel 52: 5260 MHz, middle channel 60: 5300 MHz and highest channel 64: 5320.

For 802.11an(HT40)/ac(HT40): test frequencies are lowest channel 54: 5270 MHz and highest channel 62: 5310 MHz

For 802.11ac(HT80): test frequencies is channel 58: 5290 MHz

Band III 5470MHz-5725MHz

For 802.11a/an (HT20)/ac (HT20): test frequencies are lowest channel 100: 5500 MHz, middle channel 116: 5580 MHz and highest channel 140: 5700.

For 802.11an(HT40)/ac(HT40): test frequencies are lowest channel 102: 5510 MHz, middle channel 110: 5550 MHz and highest channel 134: 5670.

For 802.11ac(HT80): test frequencies is channel 106: 5530 MHz

Band I 5725 MHz to 5850 MHz

For 802.11a/an (HT20)/ac (HT20): test frequencies are lowest channel 149: 5745 MHz, middle channel 157: 5785 MHz and highest channel 165: 5825 MHz

For 802.11an(HT40)/ac(HT40): test frequencies are lowest channel 151: 5755 MHz and highest channel 159: 5795 MHz

For 802.11ac(HT80): test frequencies is channel 155: 5775 MHz

TEST REPORT

For WIFI a/WIFI an (HT 20)/WIFI ac(HT20):

Band I(5150MHz-5250MHz)		Band II (5250MHz-5350MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320

Band III (5470MHz-5725MHz)		Band IV(5725MHz-5850MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	149	5745
104	5520	153	5765
108	5540	157	5785
112	5560	161	5805
116	5580	165	5825
132	5660		
136	5680		
140	5700		

For WIFI an (HT 40)/WIFI ac(HT40):

Band I(5150MHz-5250MHz)		Band II (5250MHz-5350MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270
46	5230	62	5310

Band III (5470MHz-5725MHz)		Band IV(5725MHz-5850MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	151	5755
110	5550	159	5795
134	5670		

TEST REPORT

For WIFI ac(HT 80):

Band I(5150MHz-5250MHz)		Band II (5250MHz-5350MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	58	5290

Band III (5470MHz-5725MHz)		Band IV(5725MHz-5850MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	155	5775

2.2 Related Submittal(s) Grants

This is an application for certification of:

NII - Unlicensed National Information Infrastructure TX.

DTS- Digital Transmission Systems (WIFI transmitter portion).

Remaining portions are subject to the following procedures:

1. Receiver portion of WIFI: exempt from technical requirement of this Part.

2.3 Test Methodology

The EUT was performed according to the procedures in FCC Part 15 E, Section 15.203, 15.207, 15.209, 15.407 and ANSI C63.4:2014, method of measurement: reference to FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10:2013. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

TEST REPORT

2.4 Test Facility

All tests were performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

Except Conducted Emissions was performed at:

Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V/60Hz supply.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

TEST REPORT

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

Description	Manufacturer	Model No.	SN/Version	Supplied by
For fixing frequency CMD command	MTK	MT7668	Version:1.6	Sunway

3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	20 dB Bandwidth	2.3%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.3%
3	Dwell Time	1.2%
4	Maximum Peak Conducted Output Power	1.5dB
5	Peak Power Spectral Density	1.5dB
7	Band edges measurement	1.5dB
8	Radiated Emissions	3.6 dB (9KHz-30MHz)
		4.3 dB (30 MHz-1 GHz)
		5.0 dB (1 GHz-18 GHz)
		5.2dB (18GZH-40GHz)
9	Conducted Emissions at Mains Terminals	2.58dB
10	Temperature	0.5 °C
11	Humidity	0.4 %
12	Time	1.2%

TEST REPORT

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, $k=2$.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

3.5 Equipment Modification

Any modifications installed previous to testing by SUNWAY PRODUCTS (HONG KONG) COMPANY LIMITED Limited will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment

Description	Manufacturer	Model No.	SN/Version	Supplied by
NoteBook	HP	Compaq 6710b	SN:CNU8240LF9	Intertek

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
USB cable	001	USB	1.5 m(unshielded)	Applicant

Remark:

After the frequency was fixed, Notebook and Fix board were removed out of the Chamber before test.

TEST REPORT

4.0 Measurement Results

4.1 Antenna Requirement

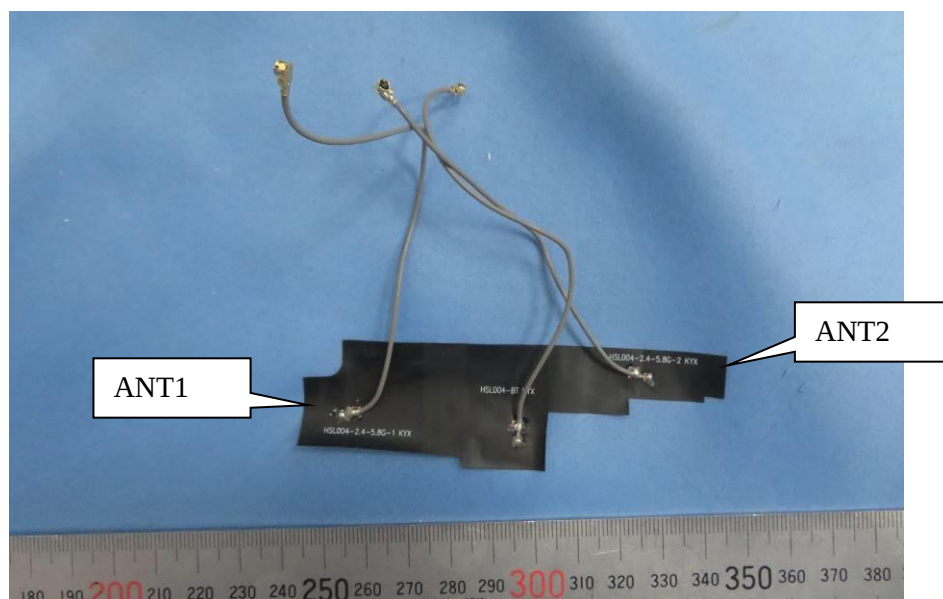
Standard requirement:

15.203 requirement:

For intentional device. According to 15.203 an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

EUT Antenna

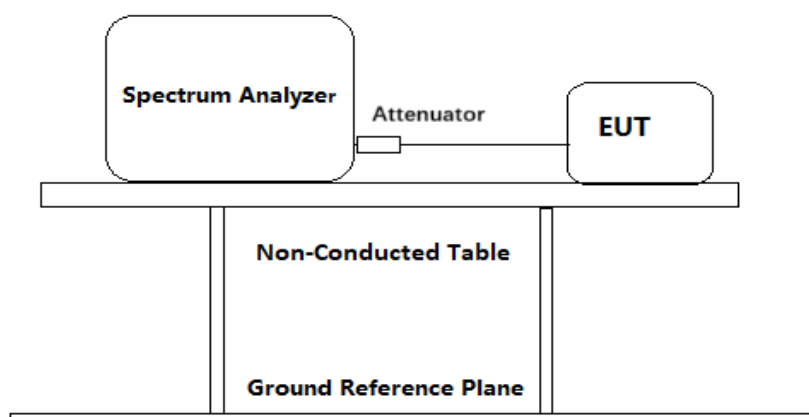
The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is 4.36 dBi and antenna2 is 4.17 dBi. Total antenna is 7.28 dBi



TEST REPORT

4.2 Duty Cycle

Test Requirement:	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause B
Test Method:	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause B
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.
Test Configuration:	



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyser:
 - a) Set $RBW \geq 1\text{MHz}$
 - b) Set the $VBW \geq [3 \times RBW]$
 - c) Detector =peak
 - d) Span = Zero span
 - e) Sweep time = 100ms
 - f) Trace mode = Free run
3. Repeat until all the test status is investigated.
4. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

TEST REPORT

Test result:

Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
36	5180	802.11a	100	100	100
36	5180	802.11n(HT20)	100	100	100
38	5190	802.11n(HT40)	100	100	100
42	5210	802.11ac(HT80)	100	100	100

Band II (5250MHz-5350MHz)

Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
52	5260	802.11a	100	100	100
52	5260	802.11n(HT20)	100	100	100
54	5270	802.11n(HT40)	100	100	100
58	5290	802.11ac(HT80)	100	100	100

Band III (5470MHz-5725MHz)

Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
100	5500	802.11a	100	100	100
100	5500	802.11n(HT20)	100	100	100
102	5510	802.11n(HT40)	100	100	100
106	5530	802.11ac(HT80)	100	100	100

Band IV (5725MHz-5850MHz)

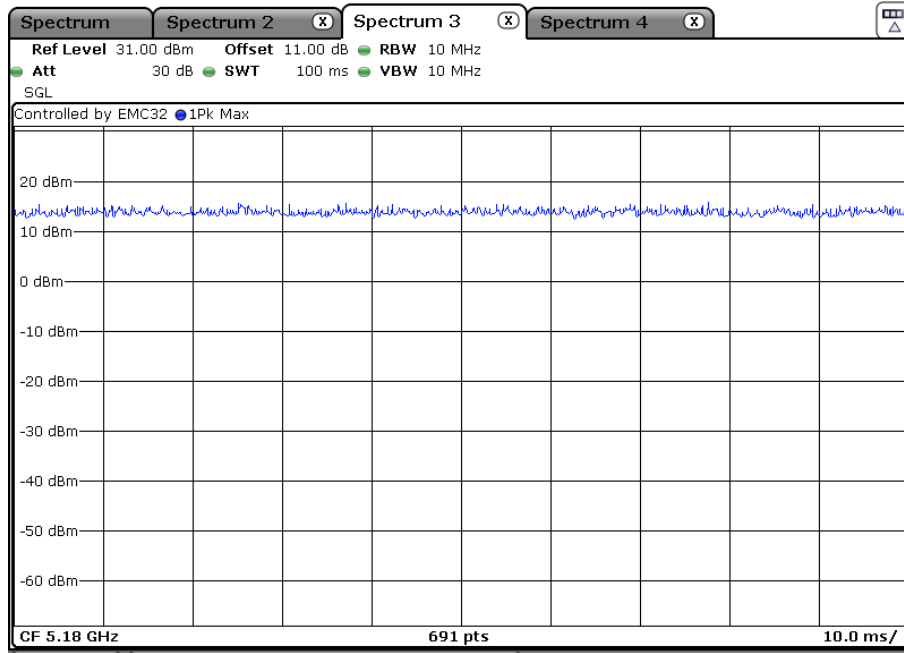
Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
149	5745	802.11a	100	100	100
149	5745	802.11n(HT20)	100	100	100
151	5755	802.11n(HT40)	100	100	100
155	5775	802.11ac(HT80)	100	100	100

TEST REPORT

Result plot as follows (ANT1):

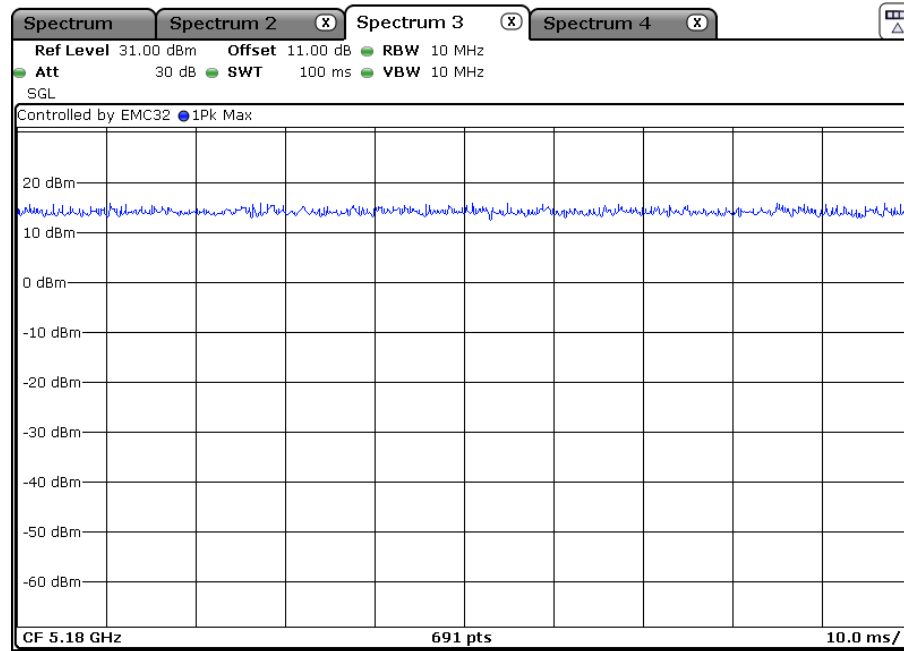
802.11a

Channel 36: 5180 MHz:



802.11an(HT 20)

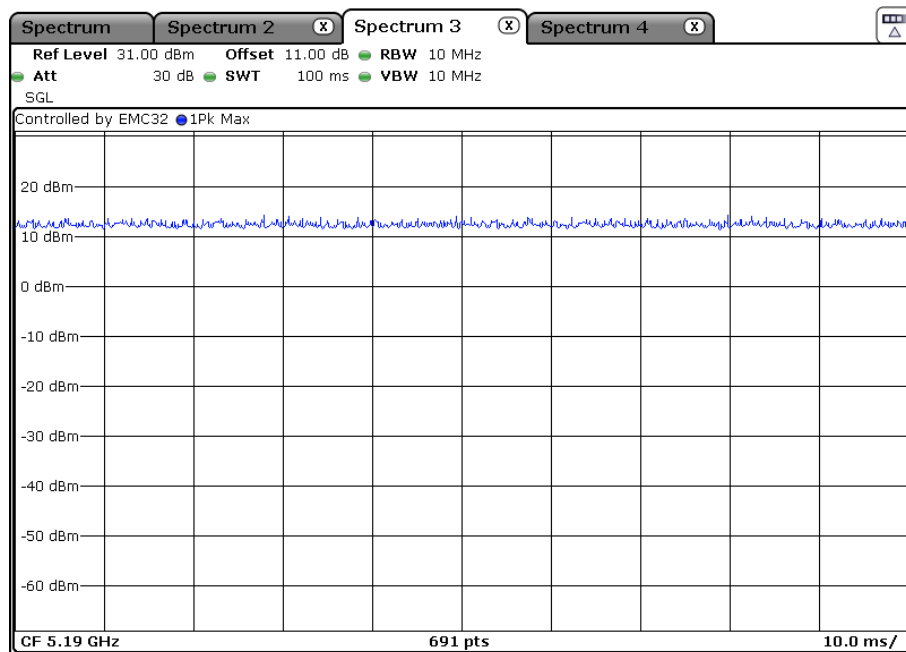
Channel 36: 5180 MHz:



TEST REPORT

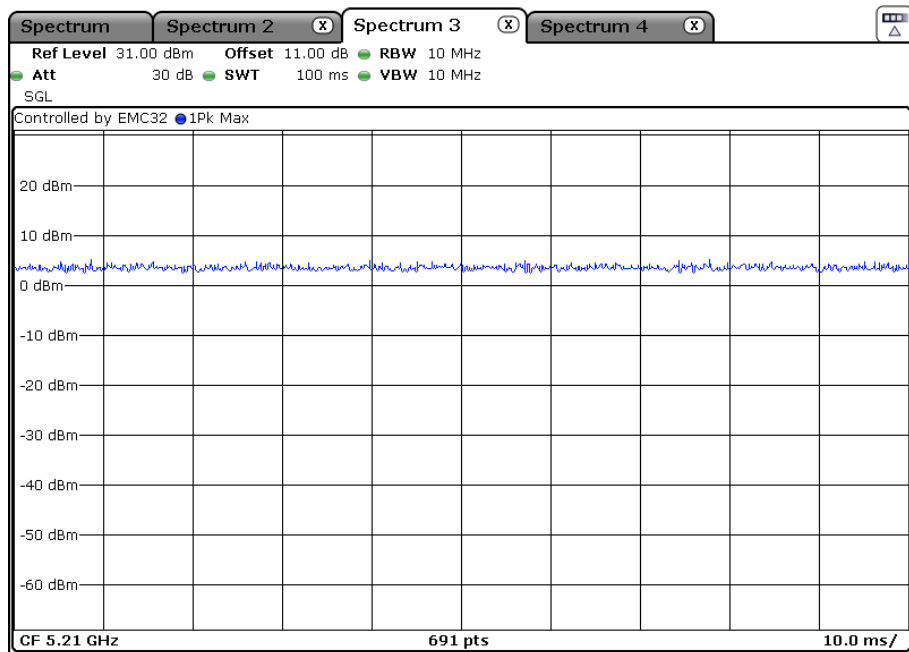
802.11an(HT 40)

Channel 38: 5190 MHz:



802.11ac(HT 80)

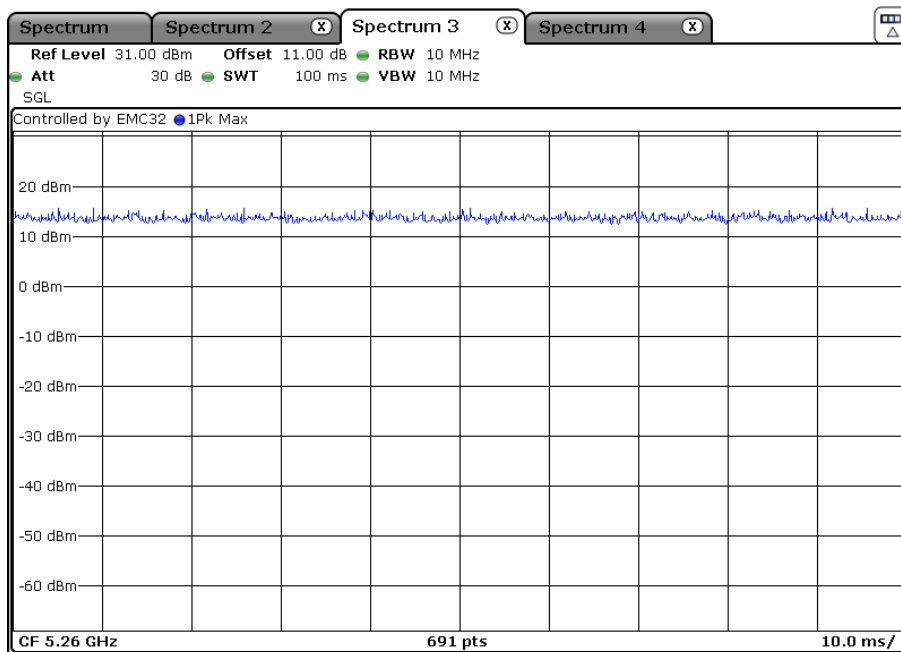
Channel 42: 5210 MHz:



TEST REPORT

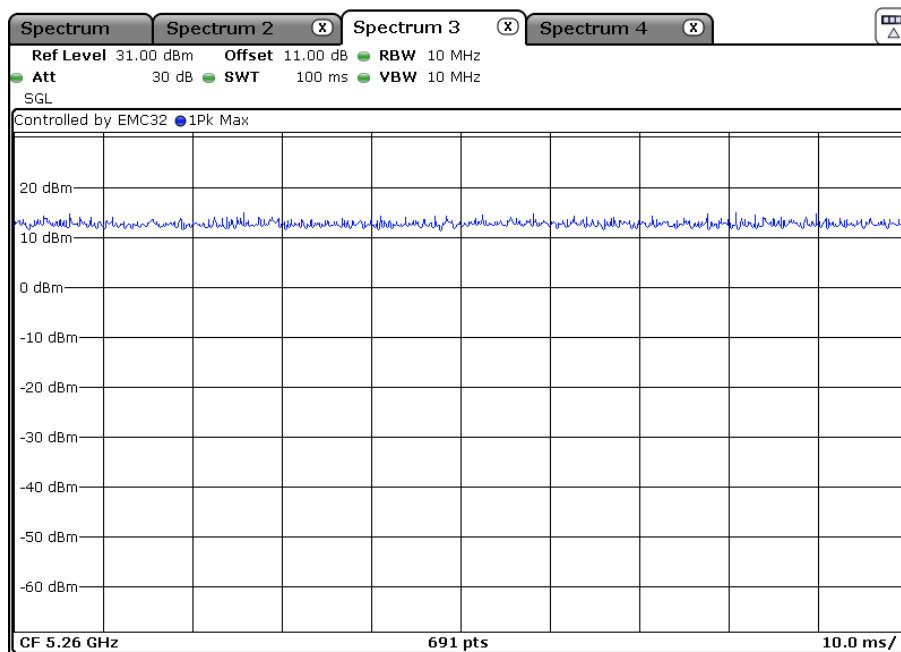
802.11a

Channel 52: 5260 MHz:



802.11an(HT 20)

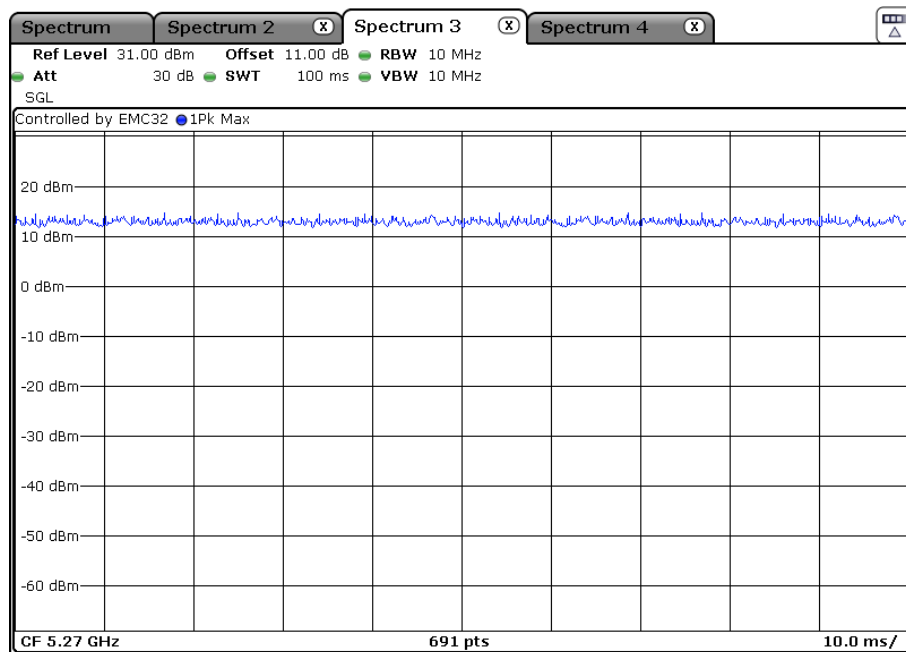
Channel 52: 5260 MHz:



TEST REPORT

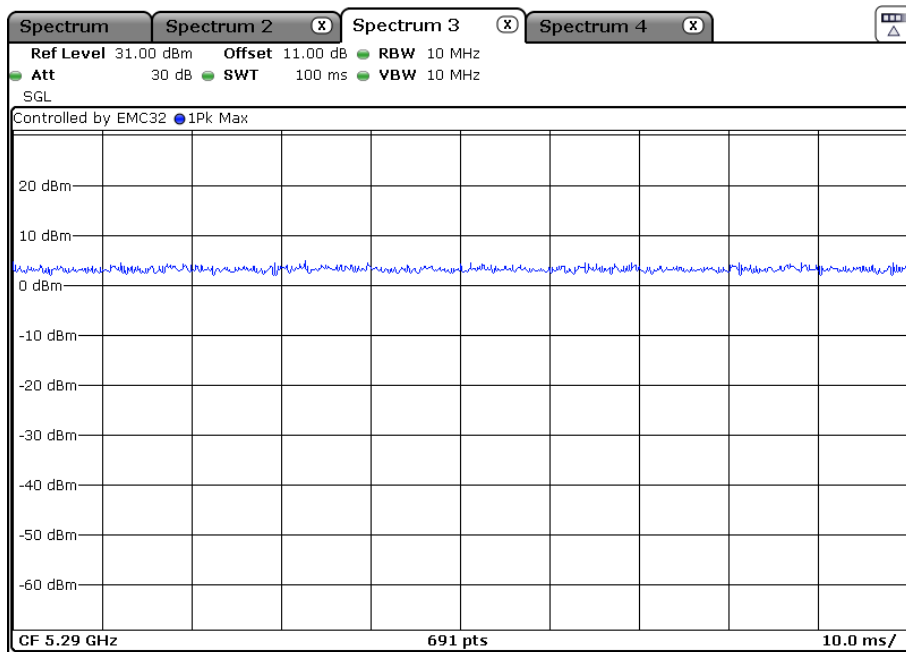
802.11an(HT 40)

Channel 54:5270 MHz:



802.11ac(HT 80)

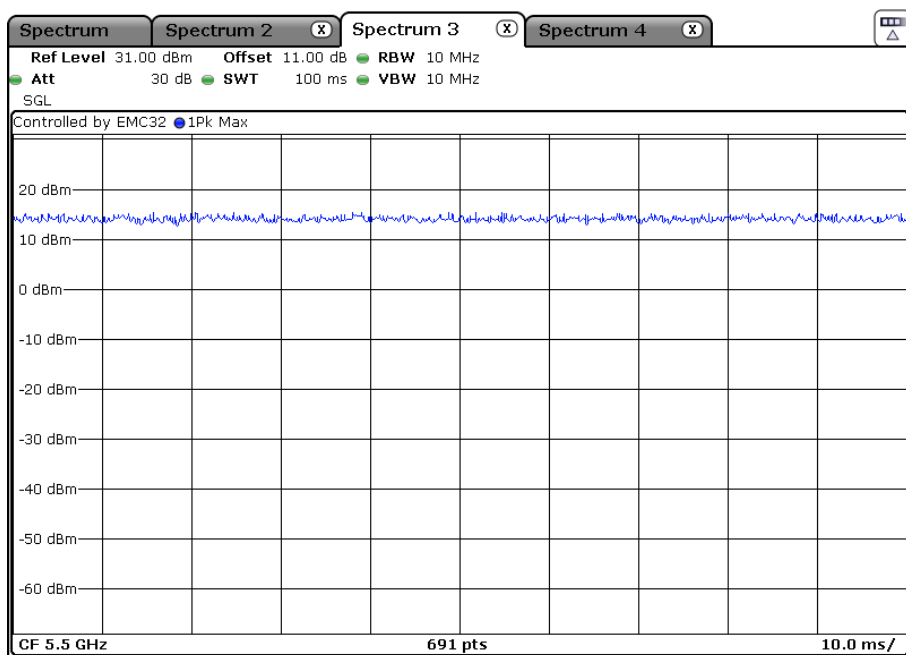
Channel 58: 5290 MHz:



TEST REPORT

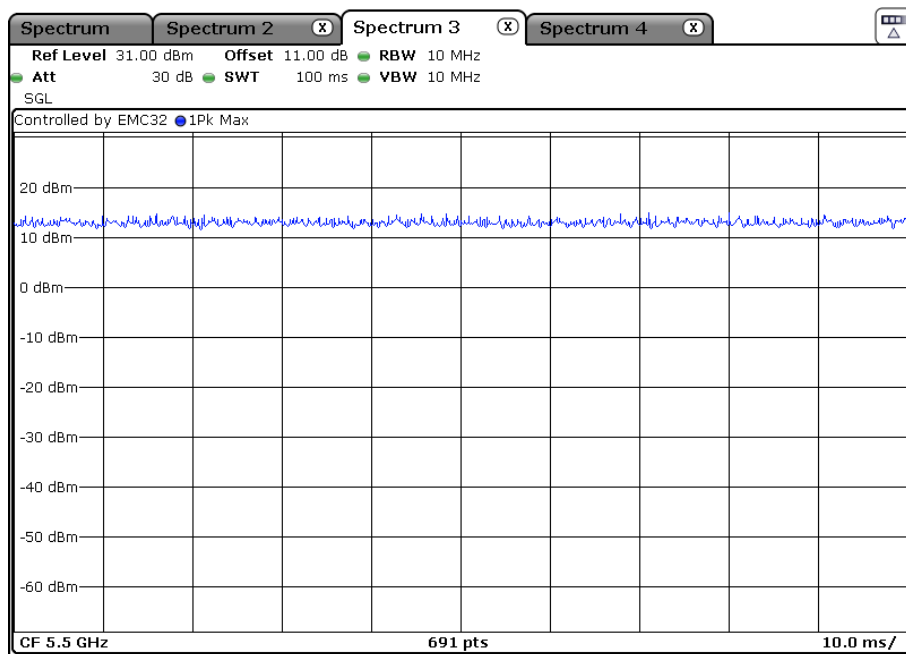
802.11a

Channel 100: 5500 MHz:



802.11an(HT 20)

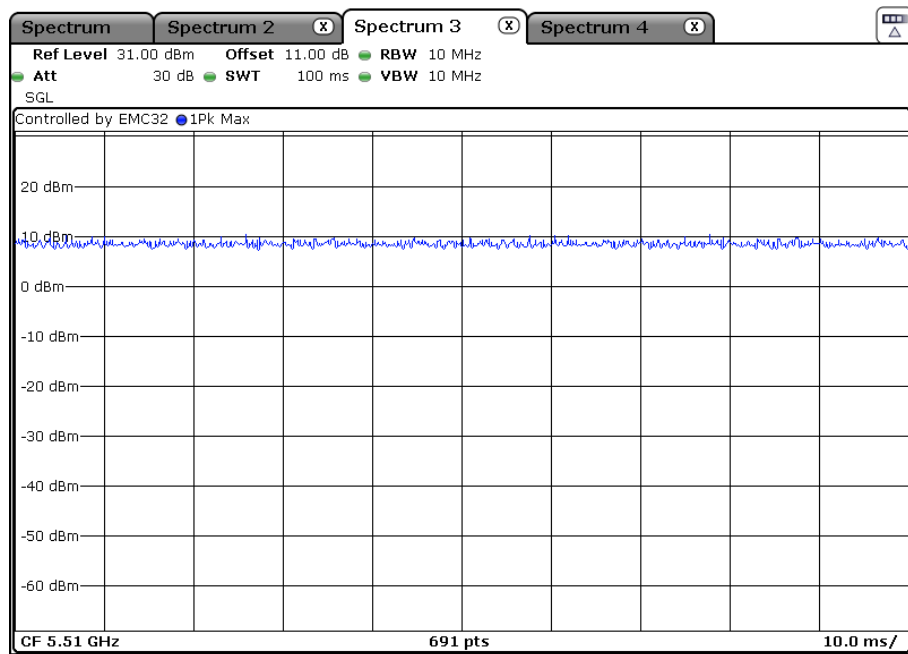
Channel 100: 5500 MHz:



TEST REPORT

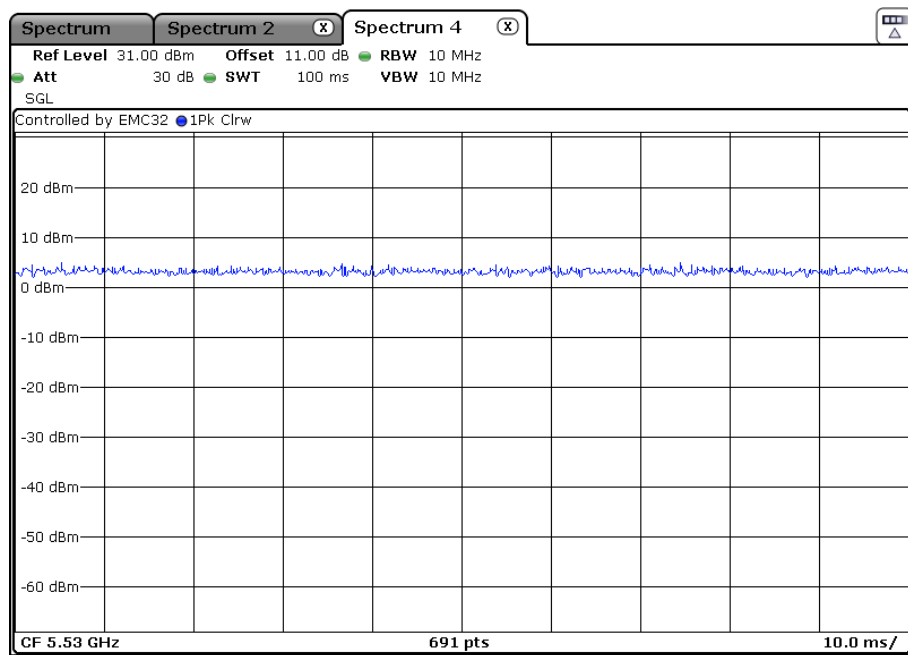
802.11an(HT 40)

Channel 102: 5510 MHz:



802.11ac(HT 80)

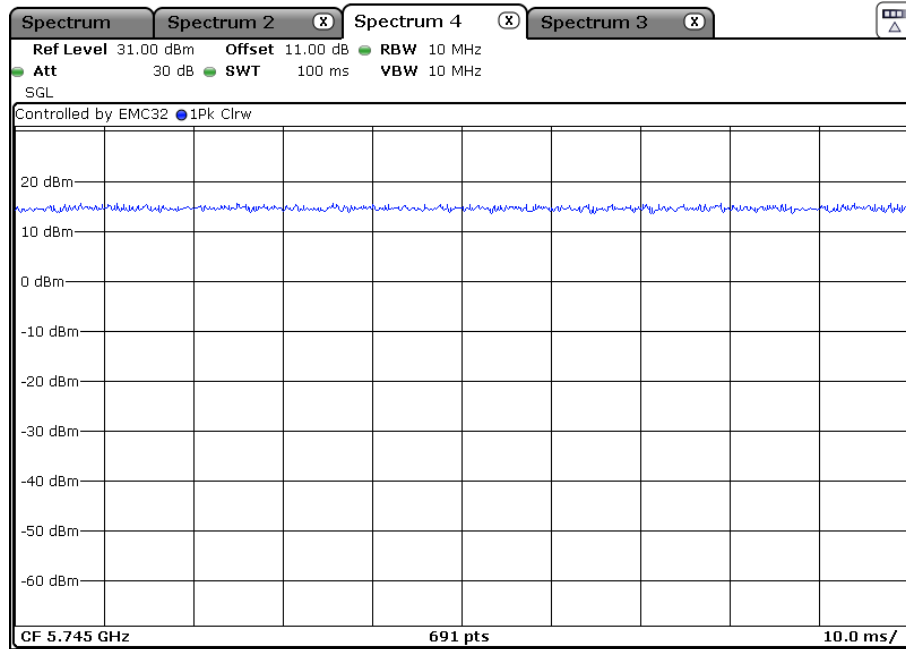
Channel 106: 5530 MHz:



TEST REPORT

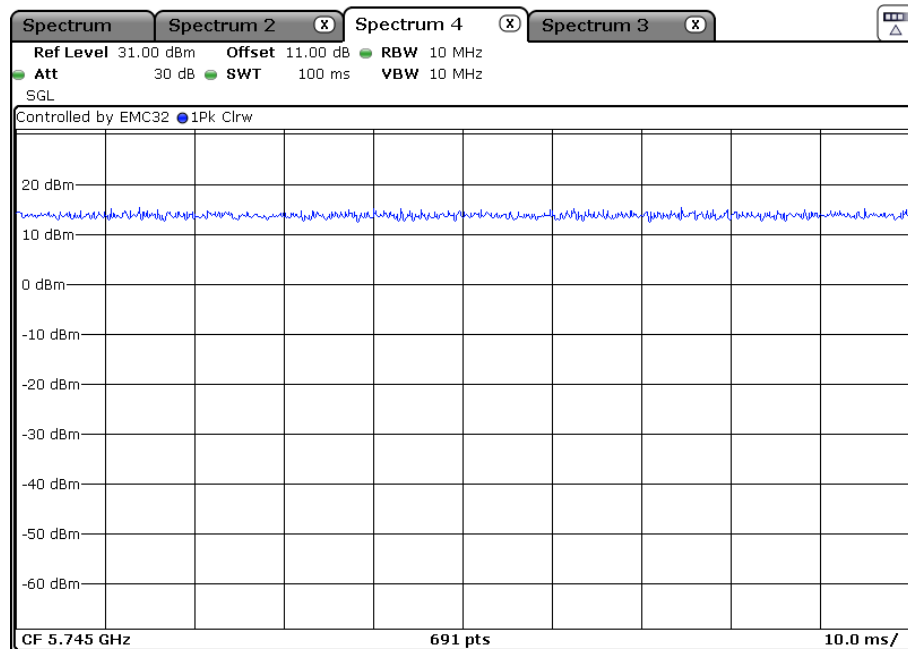
802.11a

Channel 149: 5745 MHz:



802.11an(HT 20)

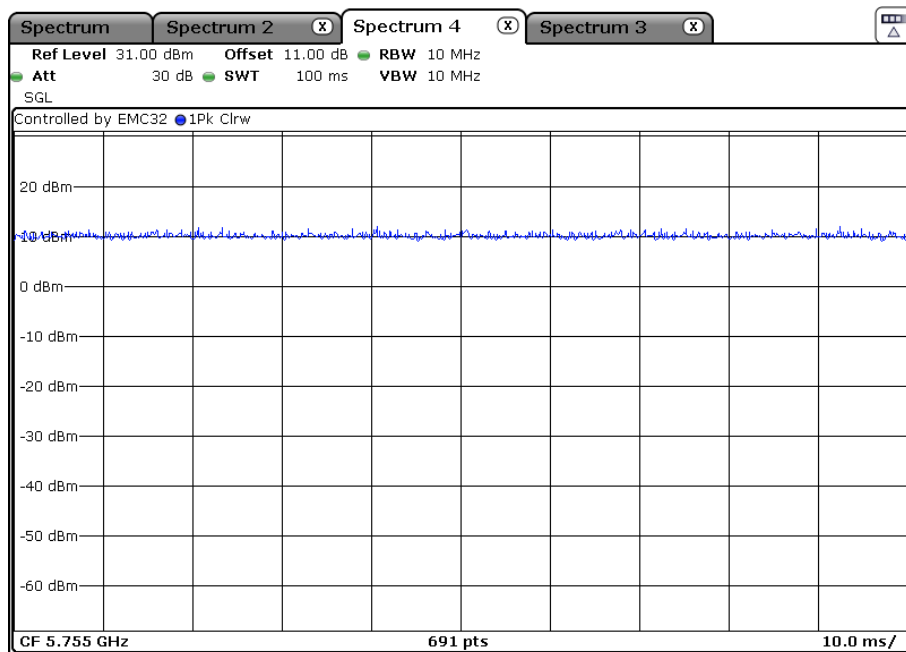
Channel 149: 5745 MHz:



TEST REPORT

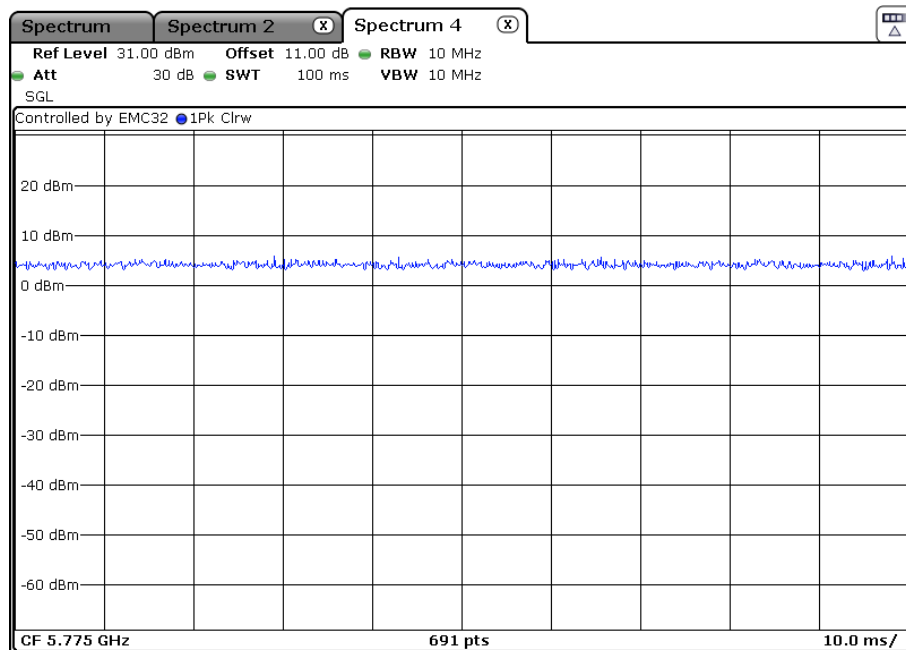
802.11an(HT 40)

Channel 151:5755 MHz:



802.11ac(HT 80)

Channel 155: 5775 MHz:

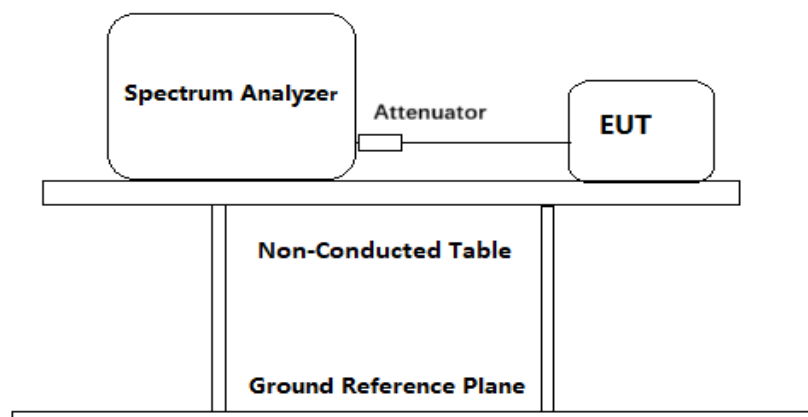


TEST REPORT

4.3 26 dB Bandwidth

Test Requirement: FCC PART 15 E clause 15.407(a)
Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause C&D
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.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
 - a) Set the RBW = approximately 1% of the emission bandwidth.
 - b) Set the VBW $\geq [3 \times \text{RBW}]$.
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow trace to fully stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.
3. Repeat until all the test status is investigated.
4. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

TEST REPORT

Band I (5150MHz – 5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Result
36	5180	802.11a	6 Mbps	19.624
40	5200		6 Mbps	19.754
48	5240		6 Mbps	19.667
36	5180	802.11an (HT20)	7.2 Mbps	20.275
40	5200		7.2 Mbps	20.145
48	5240		7.2 Mbps	20.101
38	5190	802.11an (HT40)	15 Mbps	40.724
46	5230		15 Mbps	40.724
42	5210	802.11ac (HT80)	32.5 Mbps	81.450

Band II (5250MHz-5350MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Result
52	5260	802.11a	6 Mbps	19.971
60	5300		6 Mbps	19.797
64	5320		6 Mbps	19.797
52	5260	802.11an (HT20)	7.2 Mbps	20.029
60	5300		7.2 Mbps	19.971
64	5320		7.2 Mbps	20.087
54	5270	802.11an (HT40)	15 Mbps	40.870
62	5310		15 Mbps	40.750
58	5290	802.11ac (HT80)	32.5 Mbps	81.620

TEST REPORT

Band III (5470MHz-5725MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Result
100	5500	802.11a	6 Mbps	19.682
116	5580		6 Mbps	19.682
140	5700		6 Mbps	20.087
100	5500	802.11an (HT20)	7.2 Mbps	20.029
116	5580		7.2 Mbps	20.029
140	5700		7.2 Mbps	20.260
102	5510	802.11an (HT40)	15 Mbps	40.640
110	5550		15 Mbps	40.897
134	5670		15 Mbps	40.810
106	5530	802.11ac (HT80)	32.5 Mbps	81.62

Band IV (5725MHz – 5850MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	Result
149	5745	802.11a	6 Mbps	19.624
157	5785		6 Mbps	19.797
165	5825		6 Mbps	19.971
149	5745	802.11an (HT20)	7.2 Mbps	20.203
157	5785		7.2 Mbps	20.087
165	5825		7.2 Mbps	19.971
151	5755	802.11an (HT40)	15 Mbps	40.640
159	5795		15 Mbps	40.640
155	5775	802.11ac (HT80)	32.5 Mbps	81.620

Test result: The unit does meet the FCC requirements.

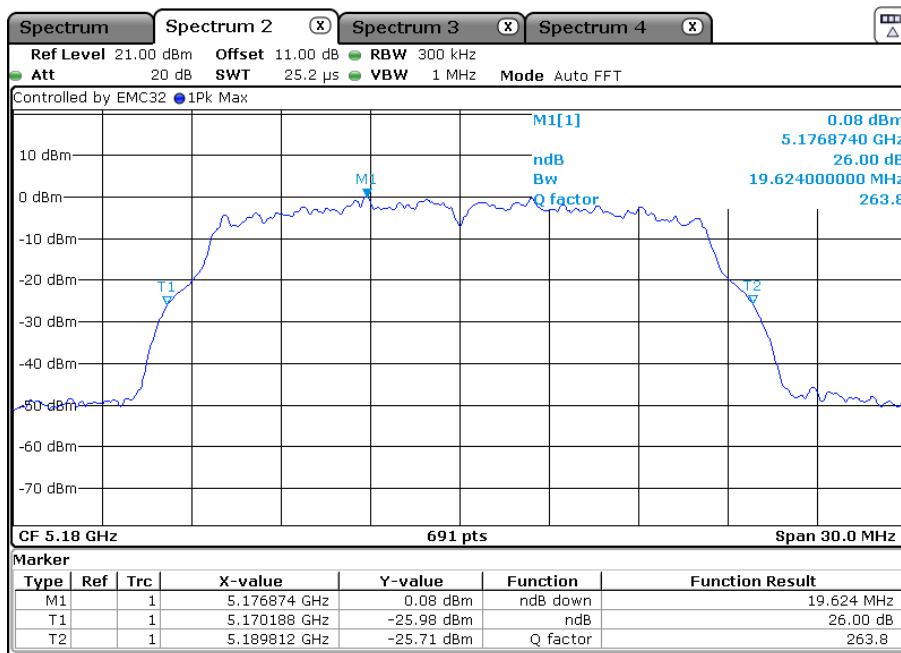
TEST REPORT

Result plot as follows (ANT1):

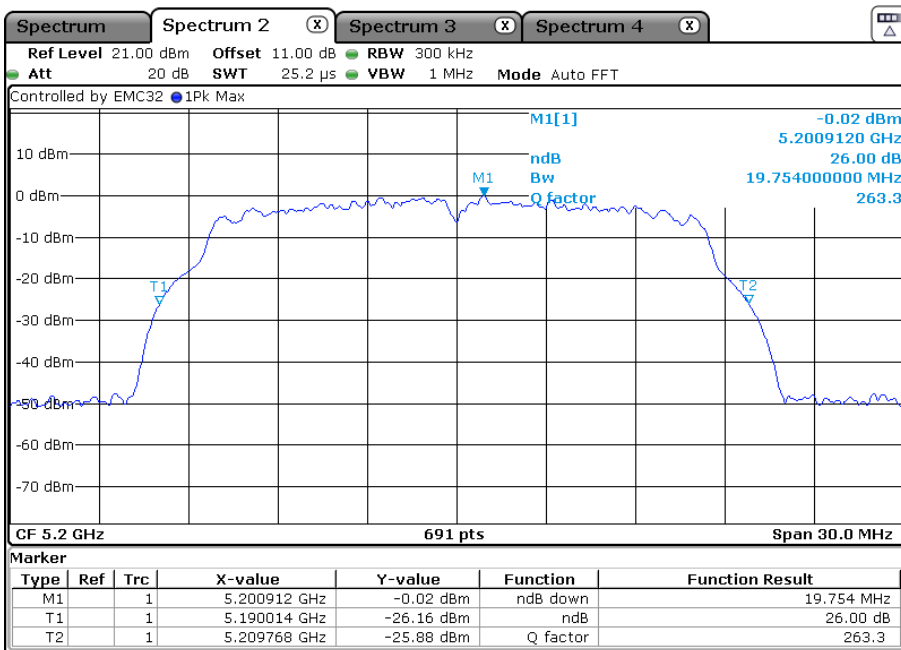
Band I 5150 MHz to 5250 MHz

802.11a

Channel 36: 5180 MHz:

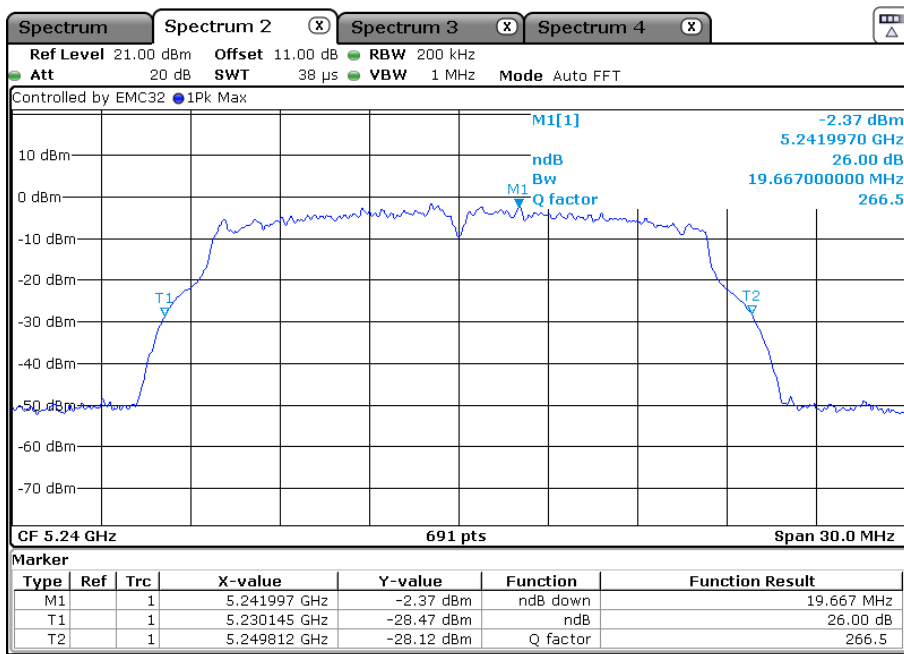


Channel 40: 5200 MHz:



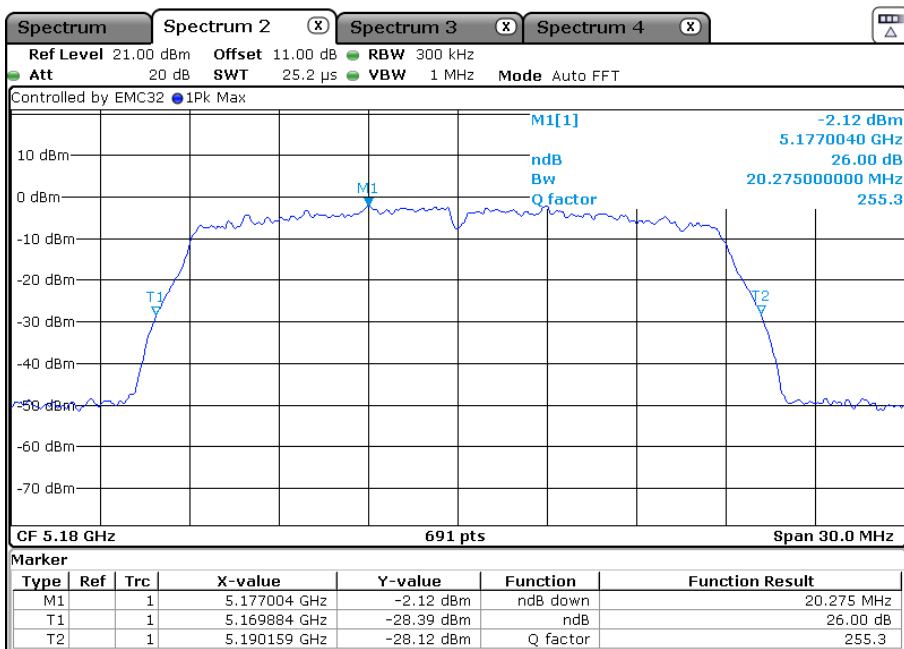
TEST REPORT

Channel 48: 5240 MHz:



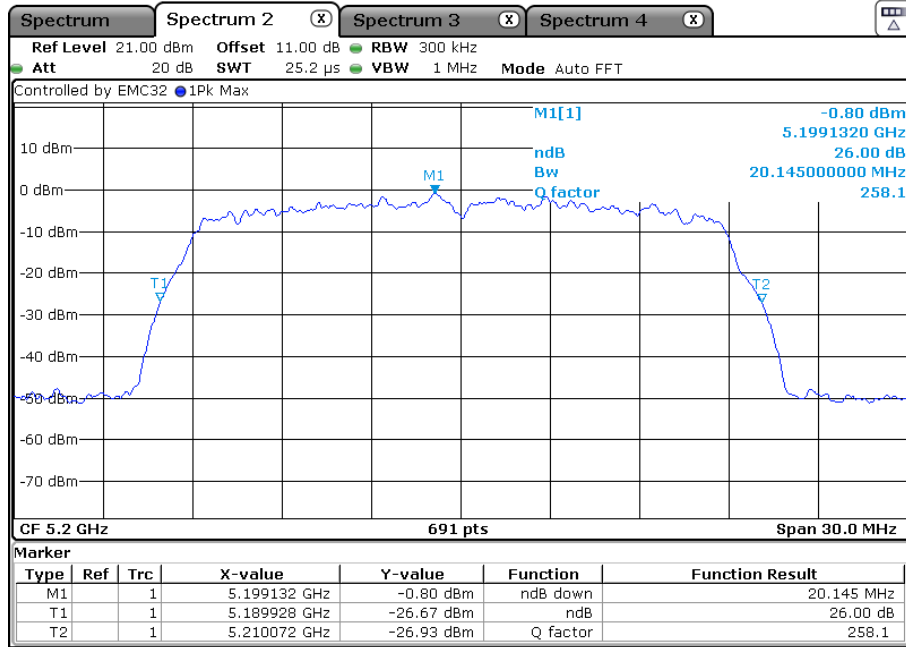
802.11an(HT 20)

Channel 36: 5180 MHz:

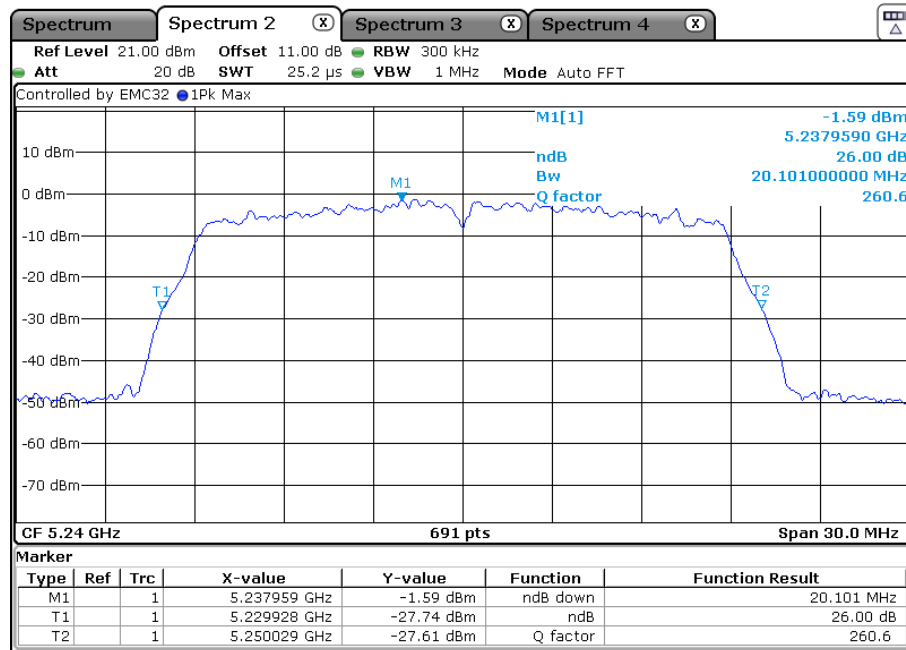


TEST REPORT

Channel 40: 5200 MHz:



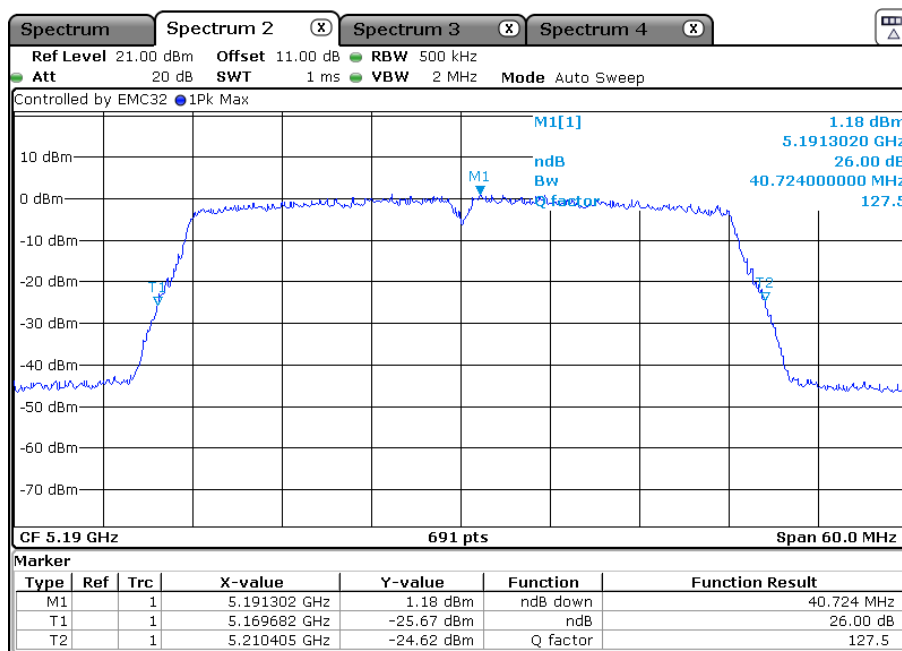
Channel 48: 5240 MHz:



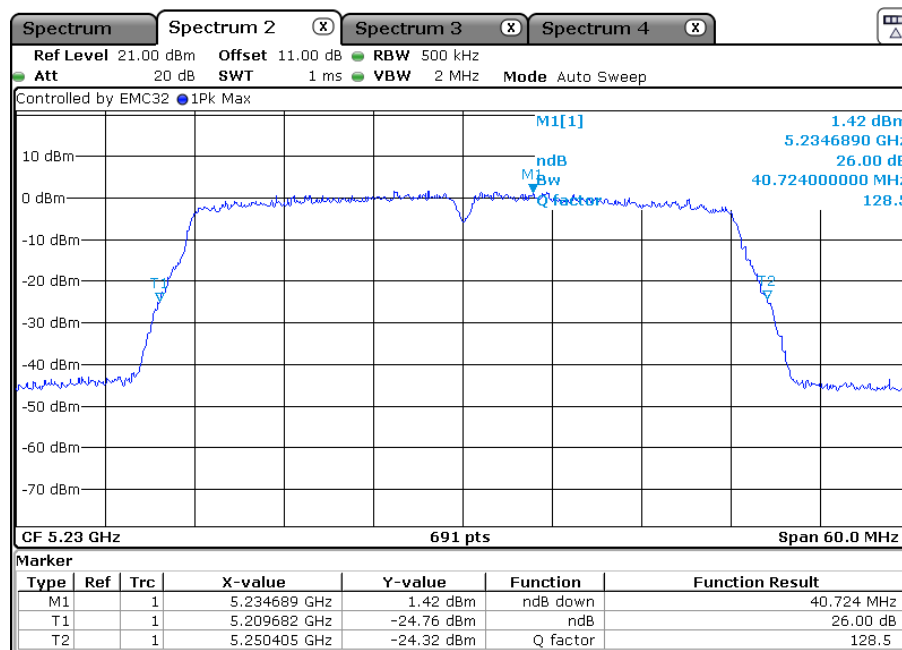
TEST REPORT

802.11an(HT 40)

Channel 38: 5190 MHz:



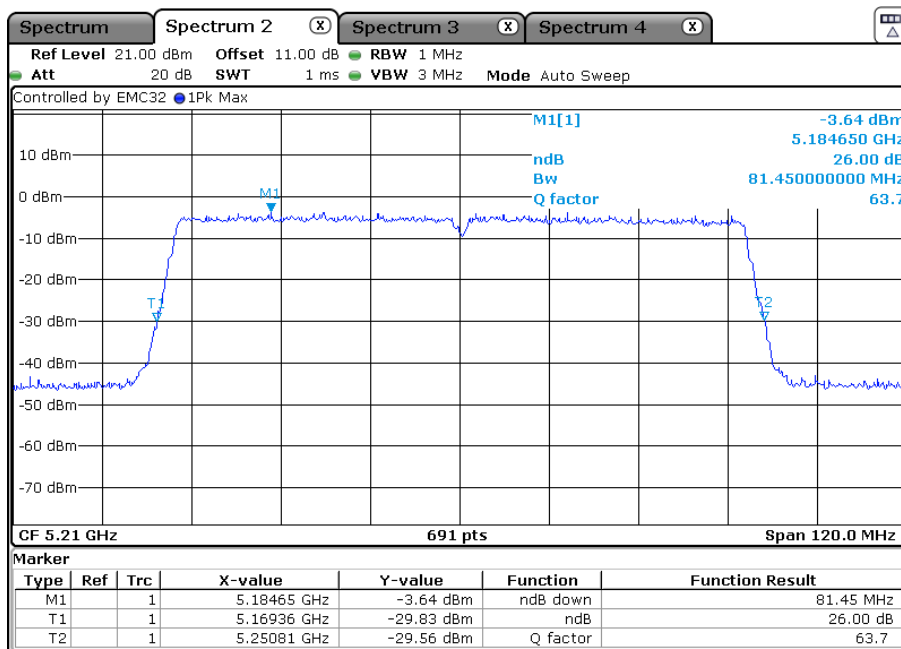
Channel 46: 5230 MHz:



TEST REPORT

802.11ac(HT 80)

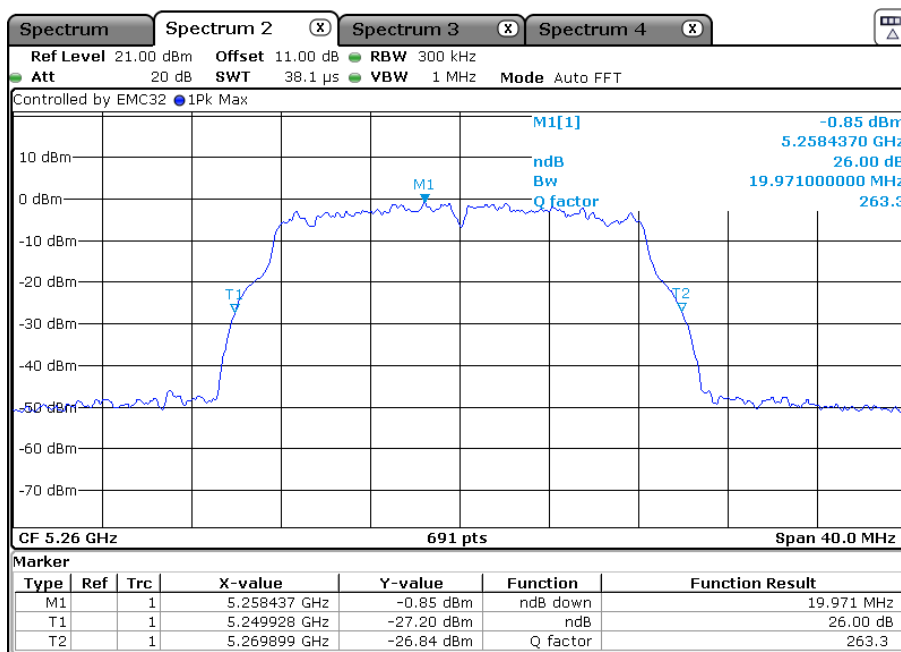
Channel 42: 5210 MHz:



Band II 5250 MHz to 5350 MHz

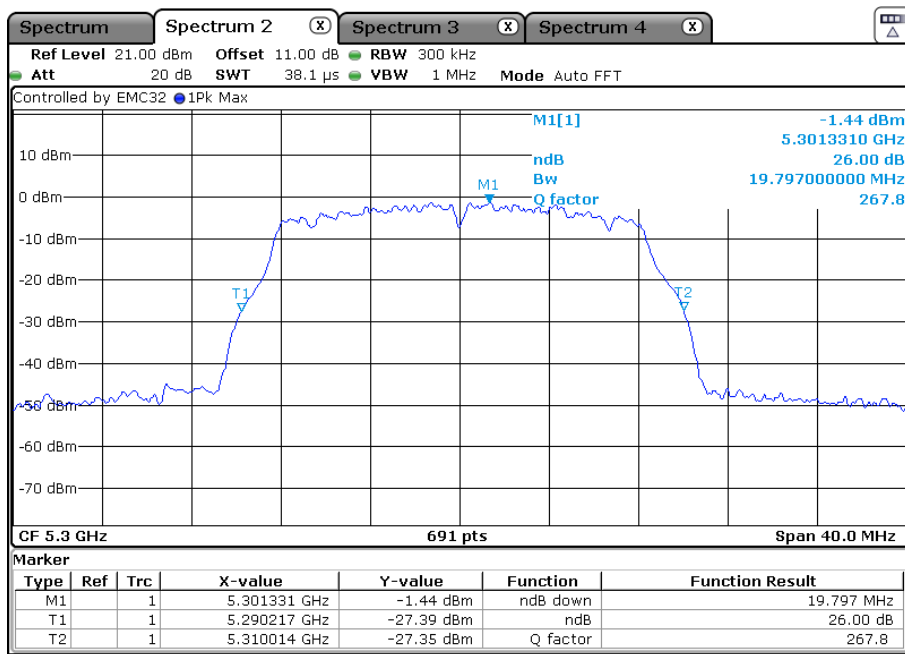
802.11a

Channel 52: 5260 MHz:

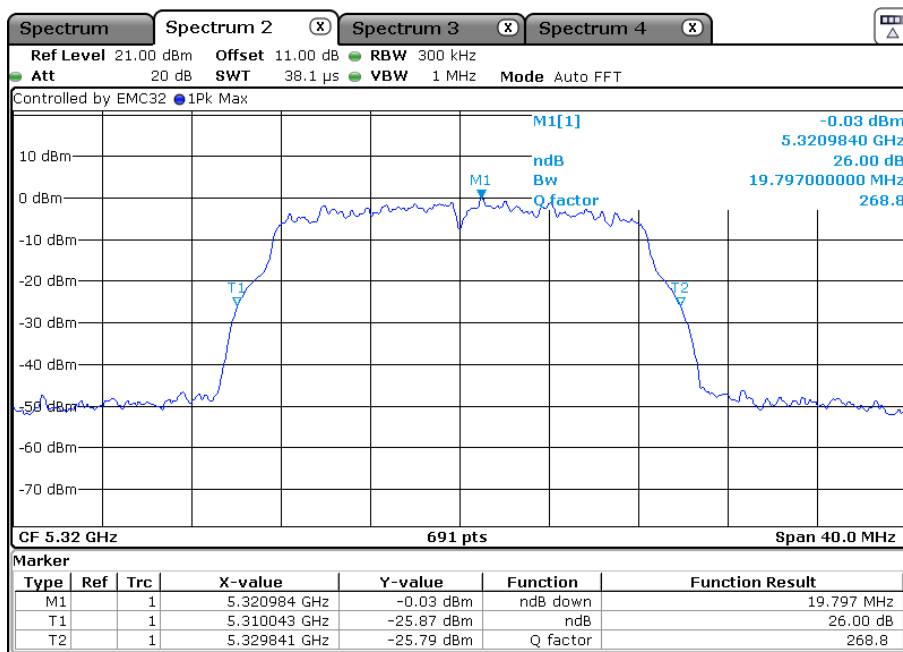


TEST REPORT

Channel 60: 5300 MHz:



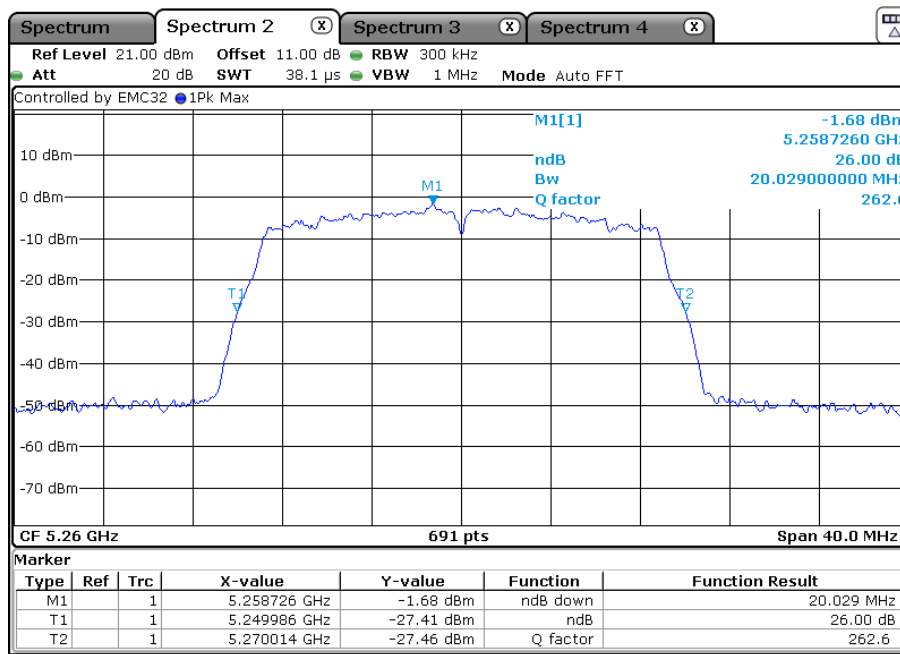
Channel 64: 5320 MHz:



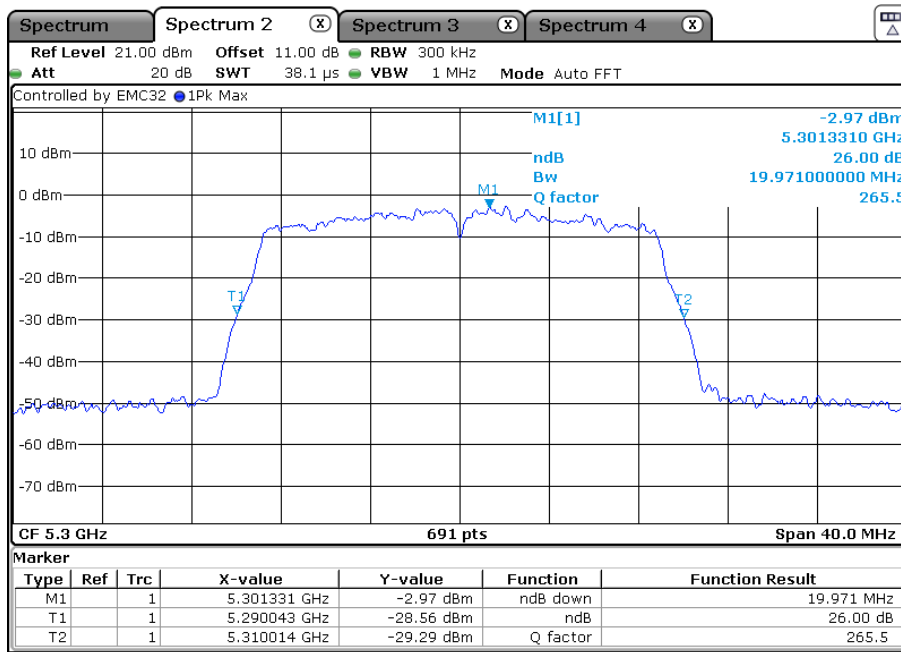
TEST REPORT

802.11an(HT 20)

Channel 52: 5260 MHz:

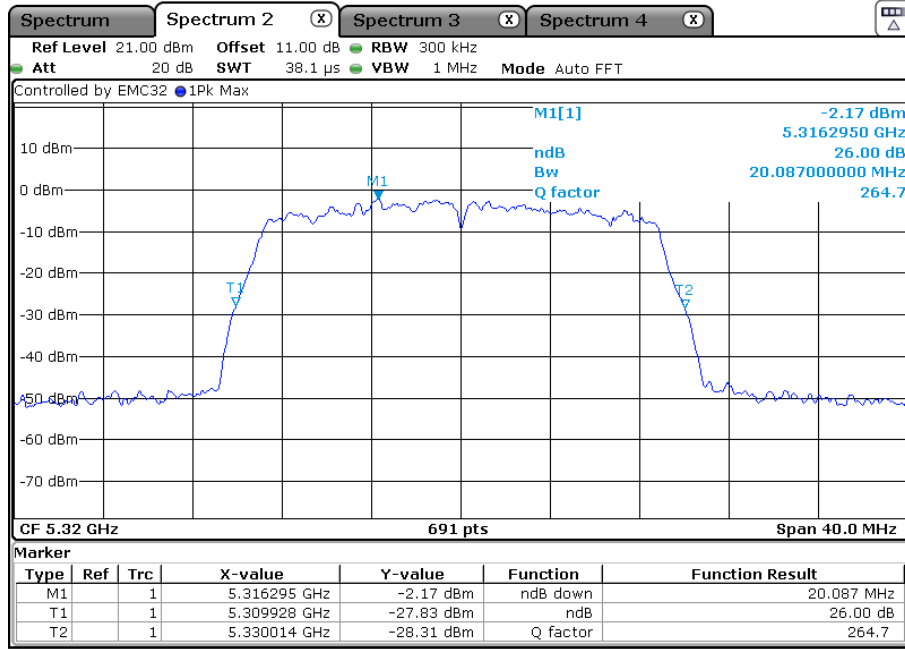


Channel 60: 5300 MHz:



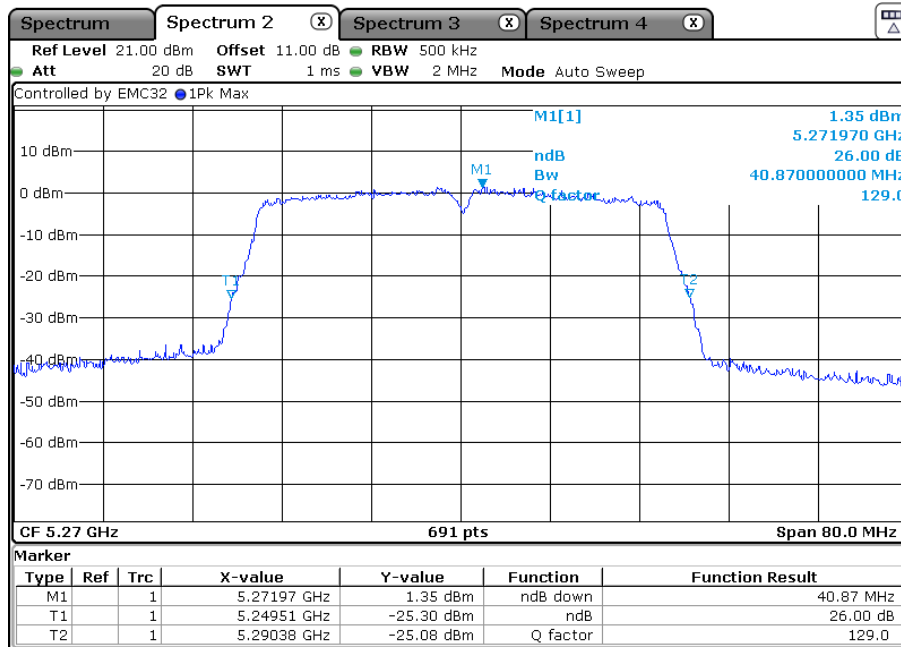
TEST REPORT

Channel 64: 5320 MHz:



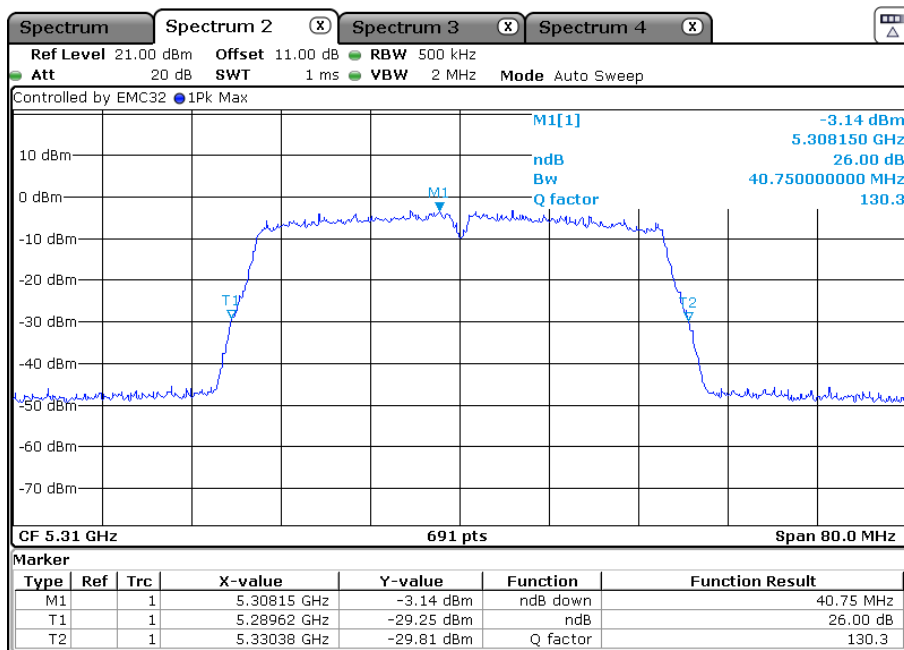
802.11an(HT 40)

Channel 54: 5270 MHz:



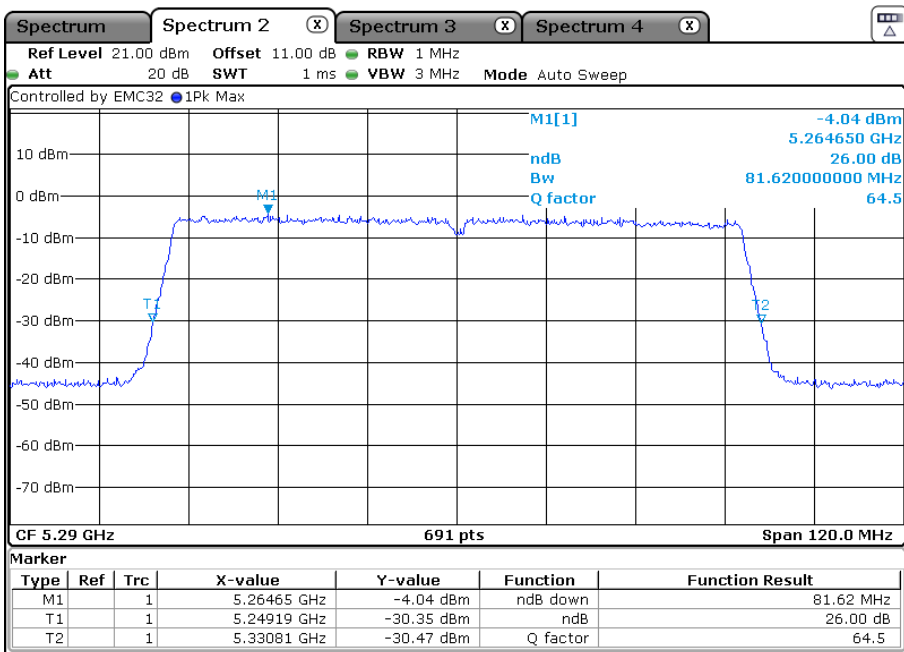
TEST REPORT

Channel 62: 5310 MHz:



802.11ac(HT 80)

Channel 58: 5290 MHz:

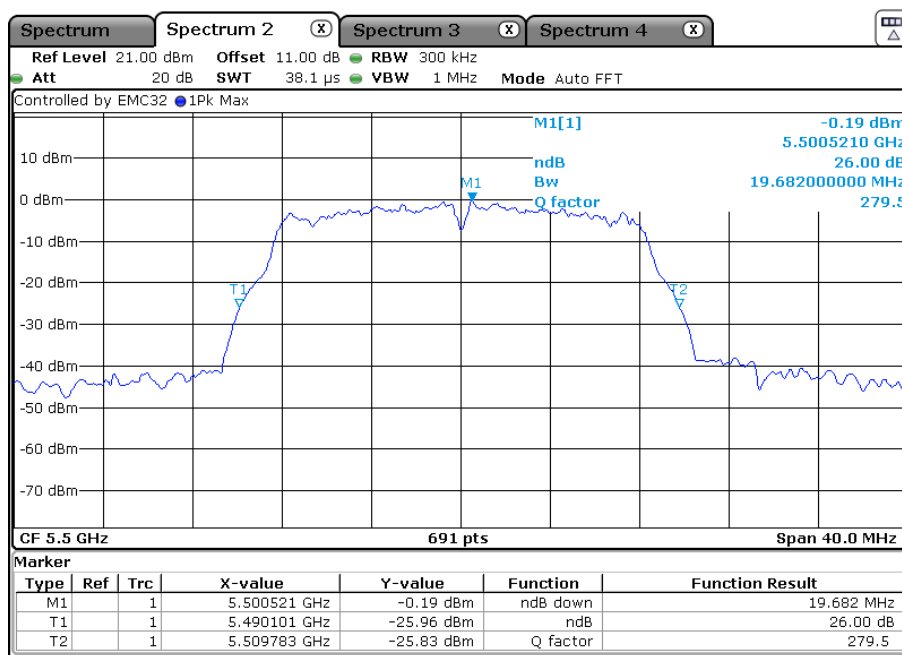


TEST REPORT

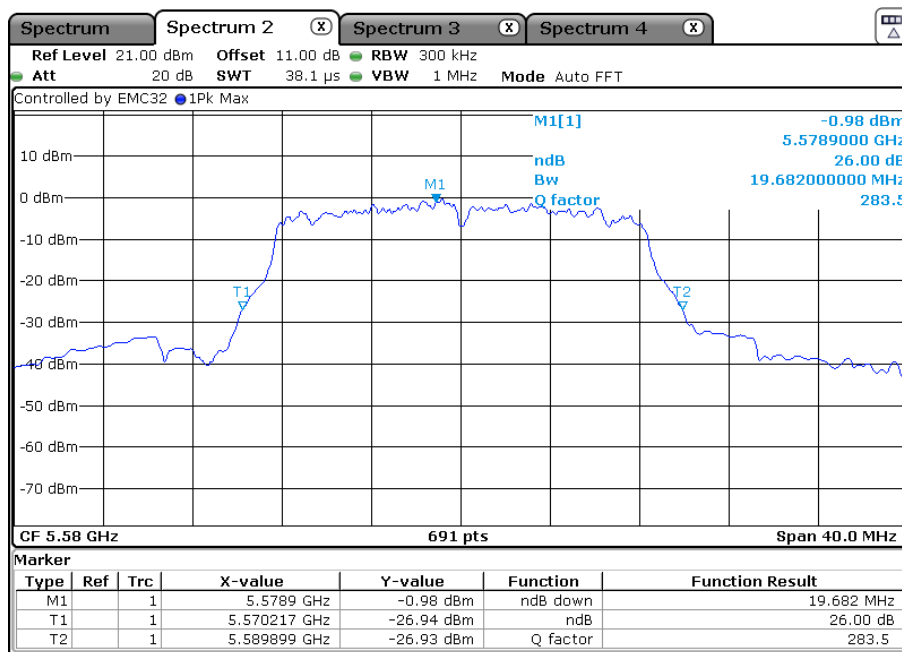
Band III 5470 MHz to 5725 MHz

802.11a

Channel 100: 5500 MHz:

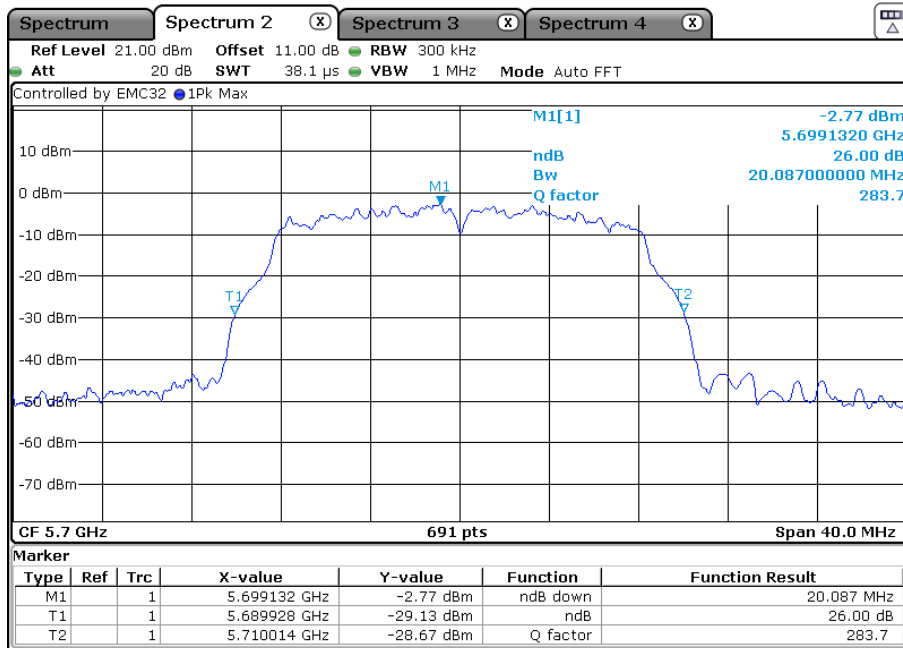


Channel 116: 5580 MHz:



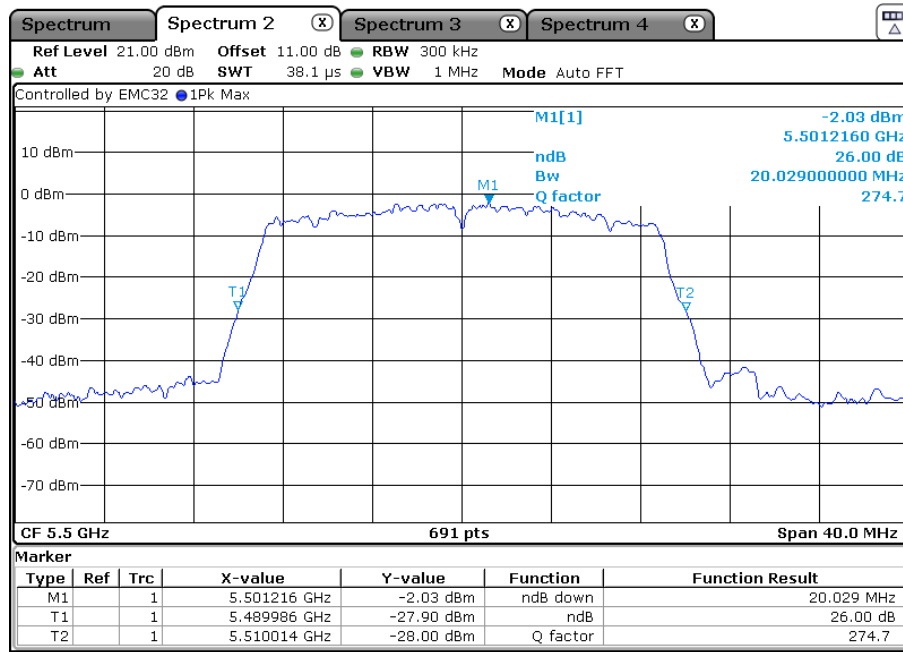
TEST REPORT

Channel 140: 5700 MHz:



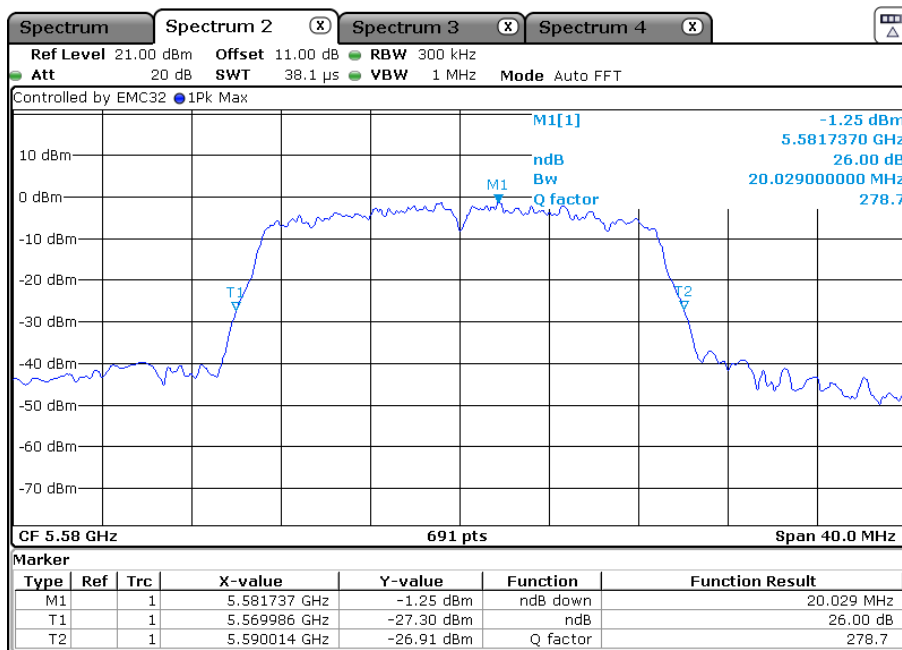
802.11an(HT 20)

Channel 100: 5500 MHz:

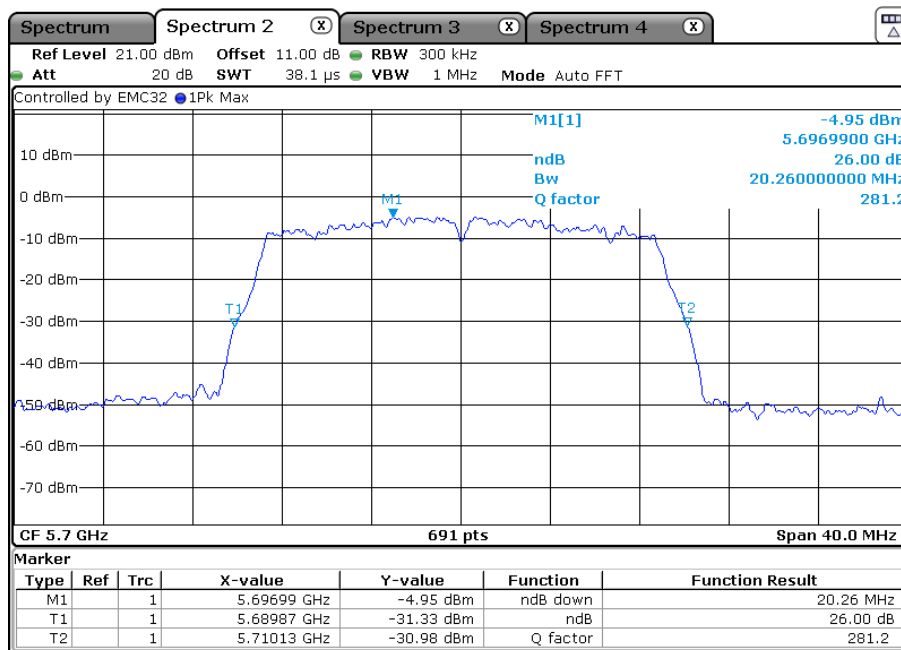


TEST REPORT

Channel 116: 5580 MHz:



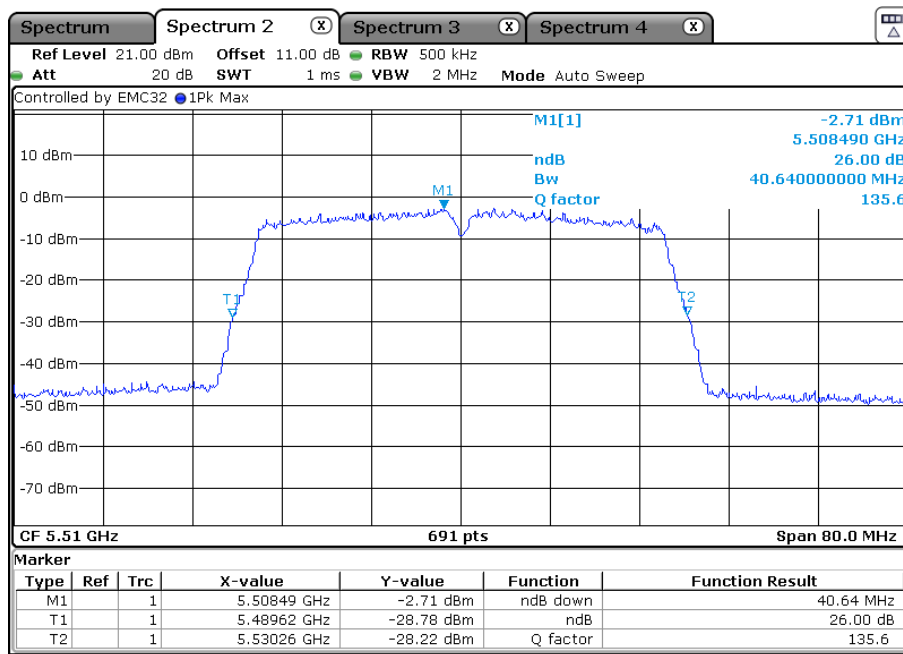
Channel 140: 5700 MHz:



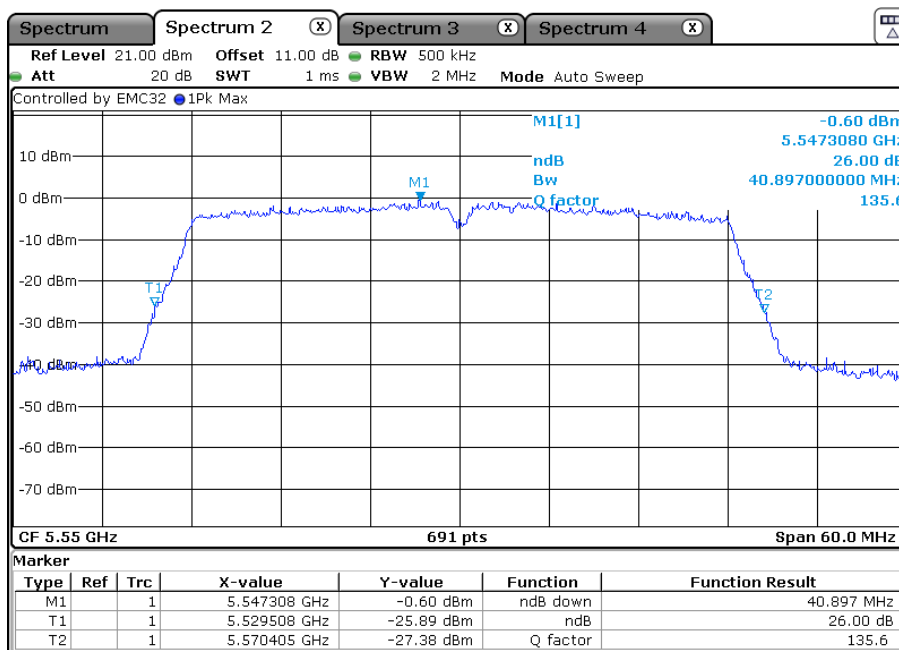
TEST REPORT

802.11an(HT 40)

Channel 102: 5510 MHz:

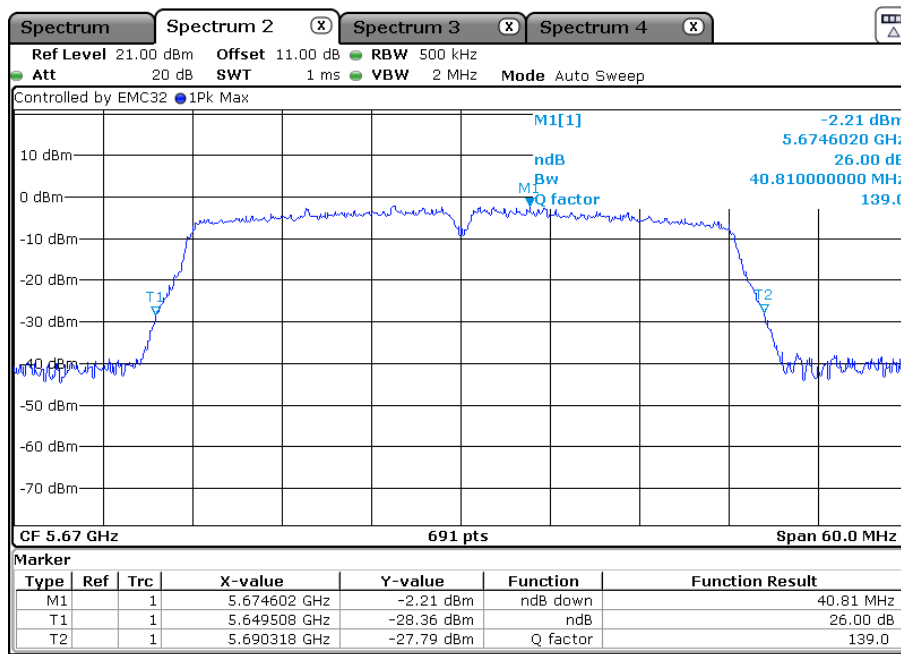


Channel 110: 5550 MHz:



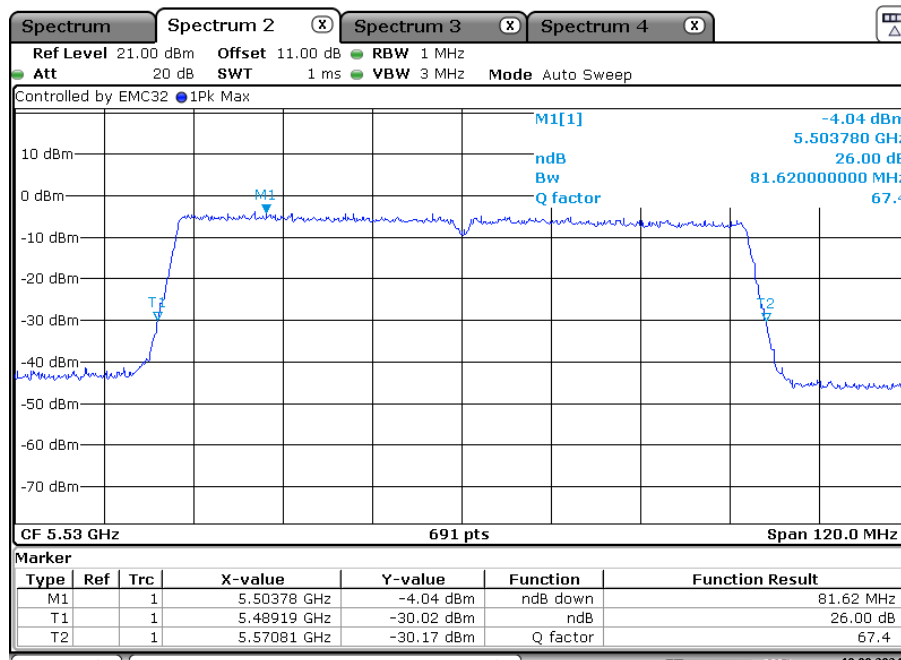
TEST REPORT

Channel 134: 5670 MHz:



802.11ac(HT 80)

Channel 106: 5530 MHz:

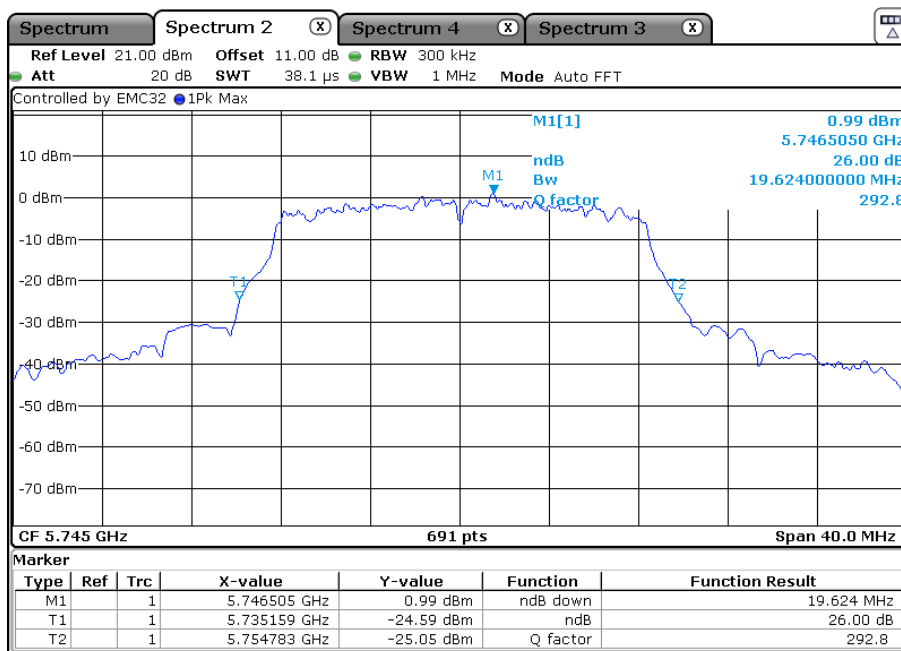


TEST REPORT

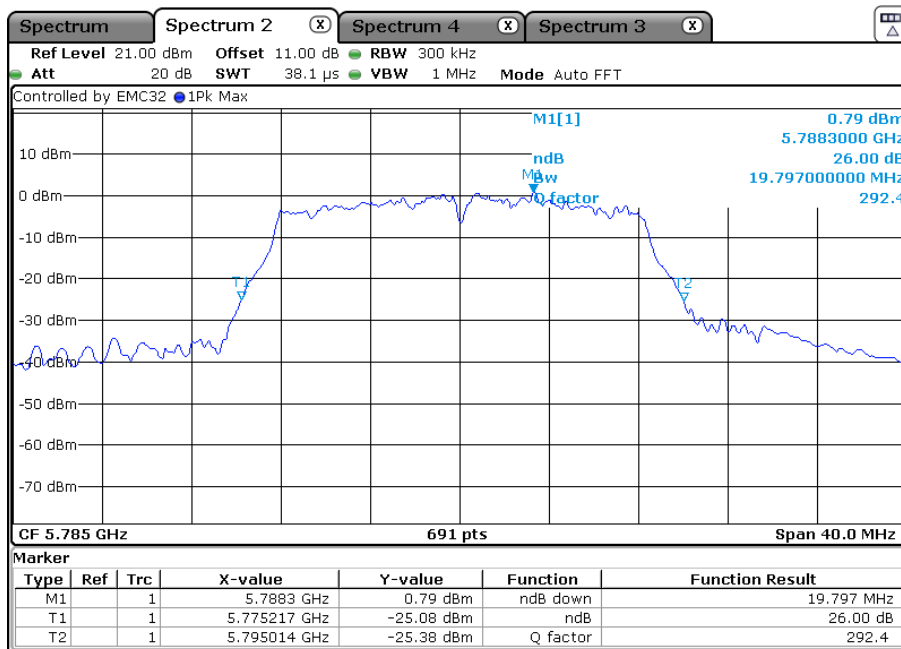
Band IV 5725 MHz to 5850 MHz

802.11a

Channel 149: 5745 MHz:

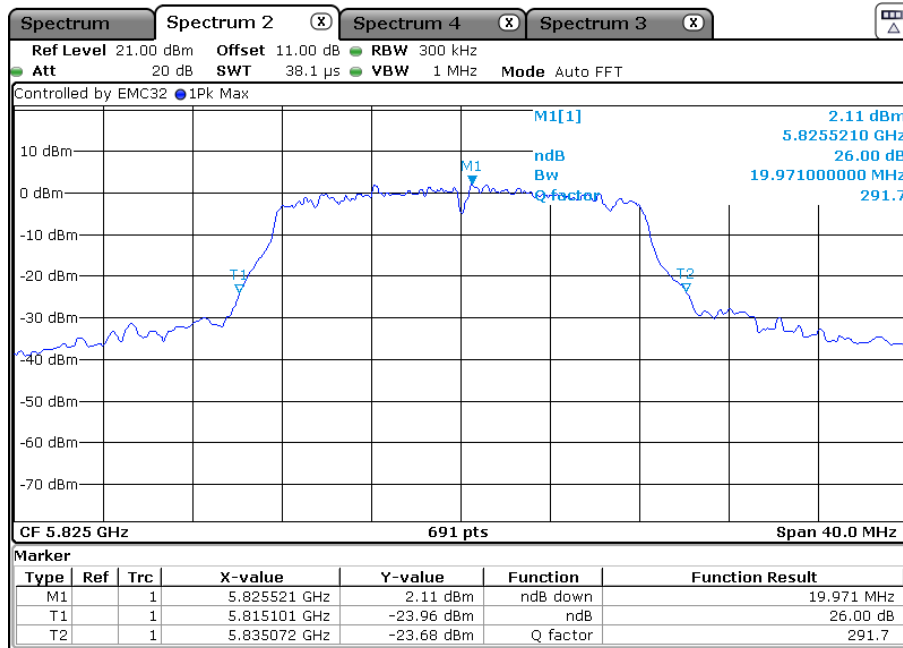


Channel 157: 5785 MHz:



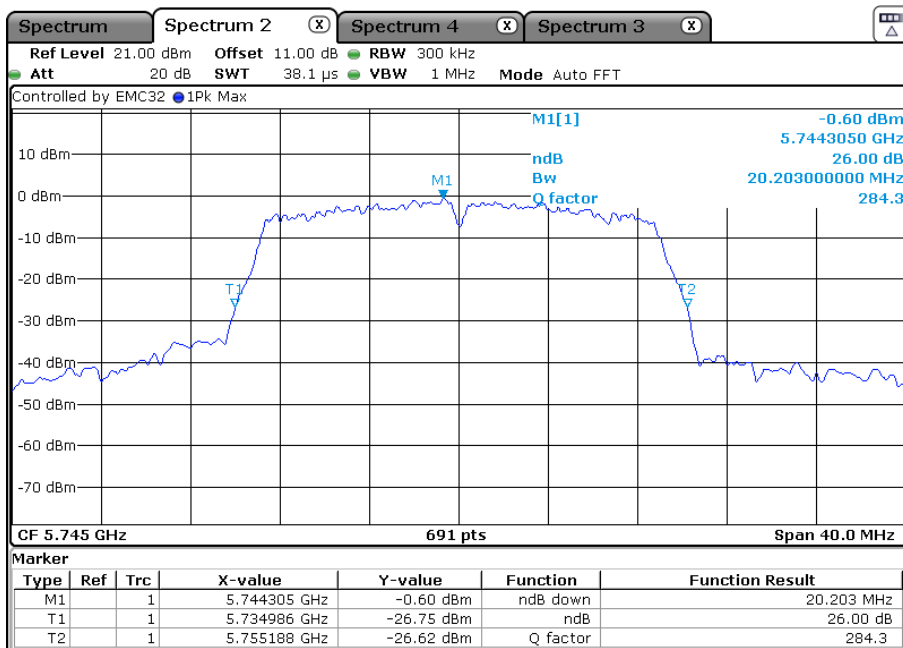
TEST REPORT

Channel 165: 5825 MHz:



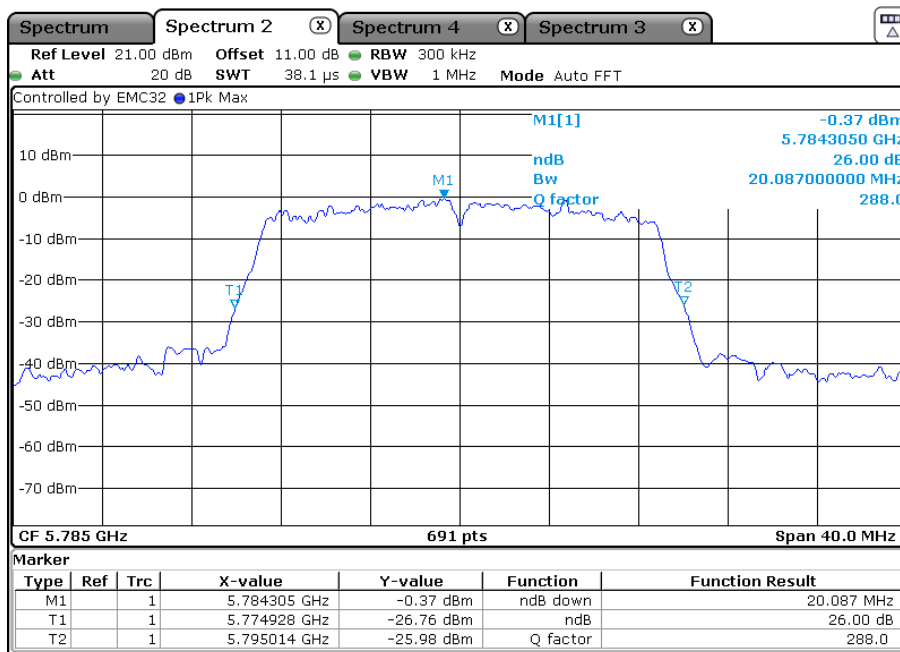
802.11an(HT 20)

Channel 149: 5745 MHz:

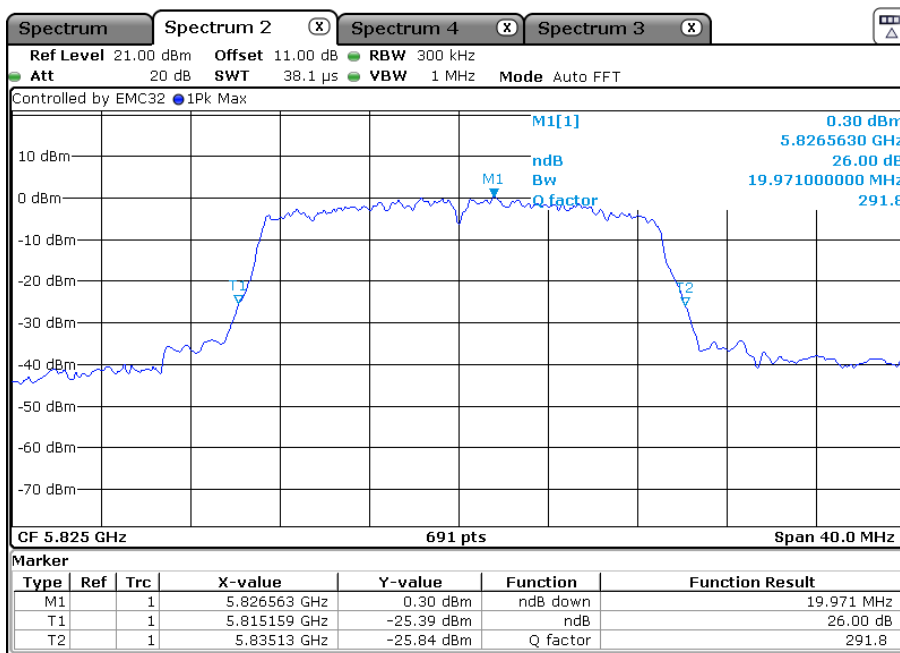


TEST REPORT

Channel 157: 5785 MHz:



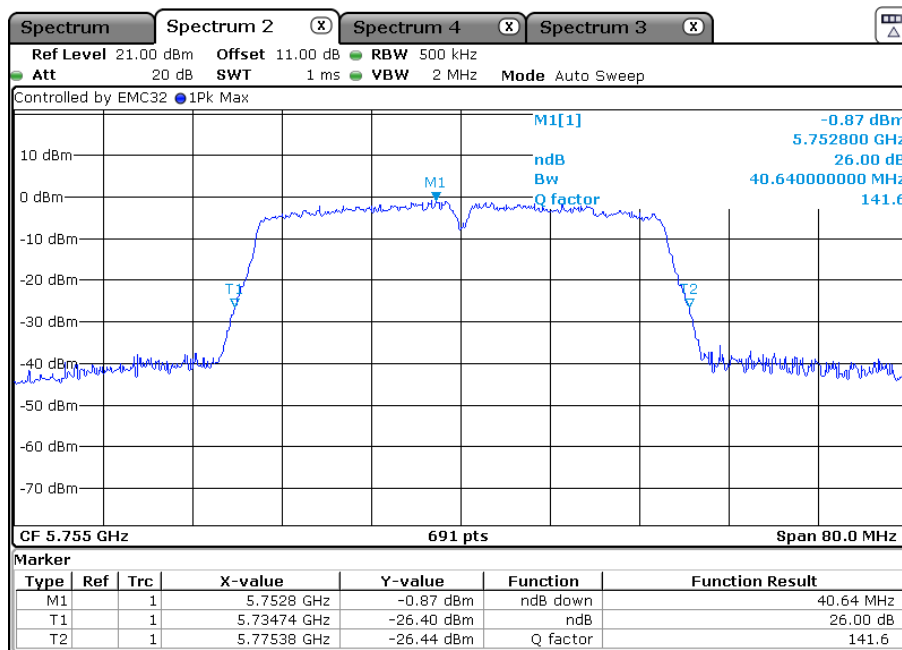
Channel 165: 5825 MHz:



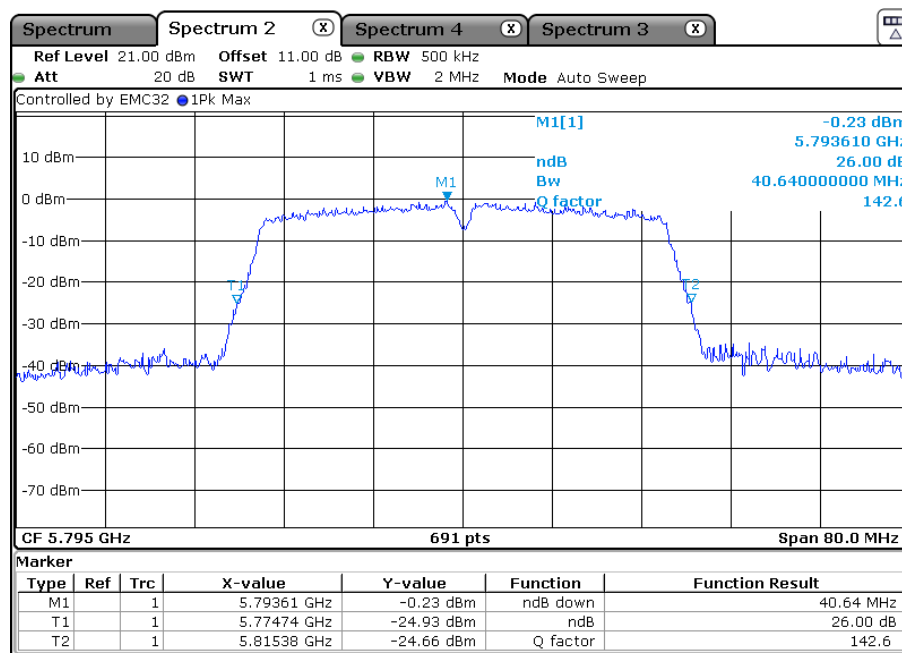
TEST REPORT

802.11an(HT 40)

Channel 151: 5755 MHz:



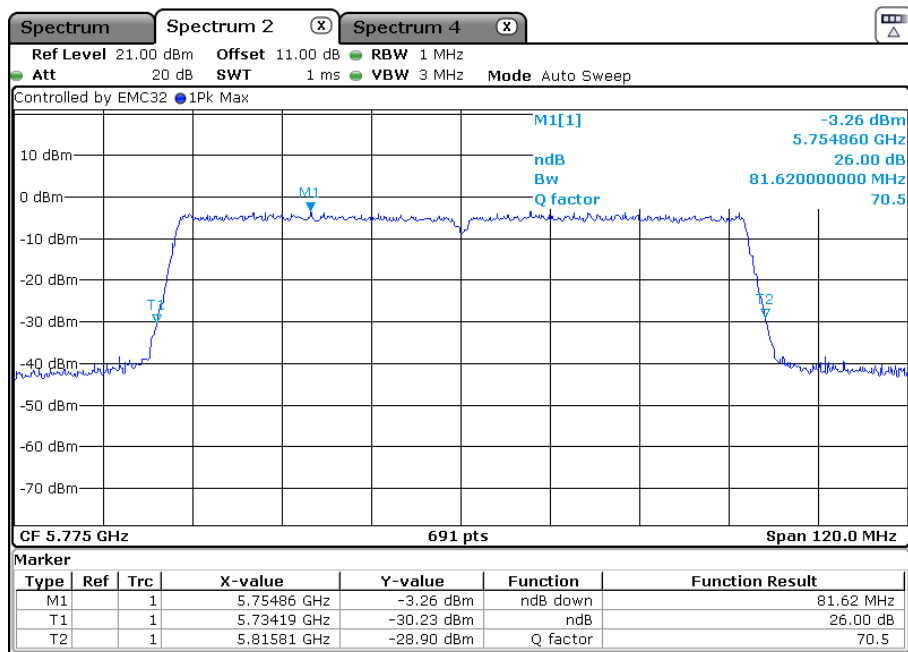
Channel 159: 5795 MHz:



TEST REPORT

802.11ac(HT 80)

Channel 155: 5775 MHz:



TEST REPORT

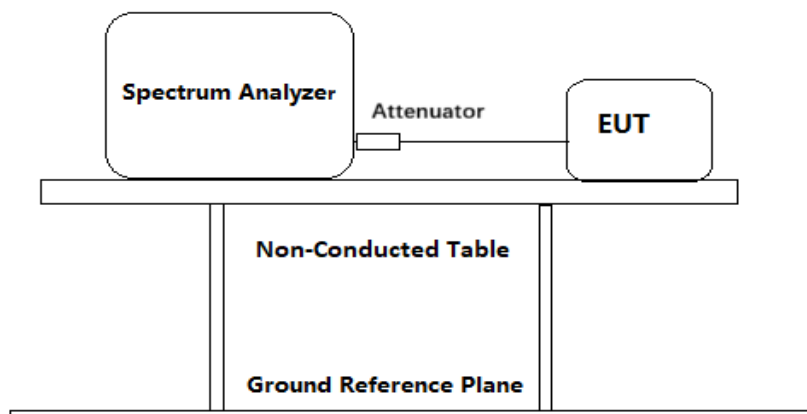
4.4 6 dB Bandwidth

Test Requirement: FCC PART 15 E clause 15.407(e)
Within the 5.725–5.85 GHz band the minimum 6 dB bandwidth of U–NII devices shall be at least 500 kHz.

Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause C

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.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable(cable loss =1 dB, with 10dB attenuator) from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer:
 - a) Set RBW = 100 kHz.
 - b) Set VBW $\geq [3 \times \text{RBW}]$
 - c) Detector = peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
 - h) $\text{Span} = 2 \times \text{BW} \sim 5 \times \text{BW}$.
3. Repeat until all the test status is investigated.
4. Report the worst case.

TEST REPORT

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

Channel No.	Frequency (MHz)	Mode	Data Rate	6dB bandwidth (MHz)	Limit	Result
149	5745	802.11a	6 Mbps	16.556	≥500kHz	Pass
157	5785		6 Mbps	16.556		Pass
165	5825		6 Mbps	16.556		Pass
149	5745	802.11an (HT20)	7.2 Mbps	17.771		Pass
157	5785		7.2 Mbps	17.771		Pass
165	5825		7.2 Mbps	17.771		Pass
151	5755	802.11an (HT40)	15 Mbps	36.700		Pass
159	5795		15 Mbps	36.700		Pass
155	5775	802.11ac (HT80)	32.5 Mbps	76.760		Pass

Test result: The unit does meet the FCC requirements

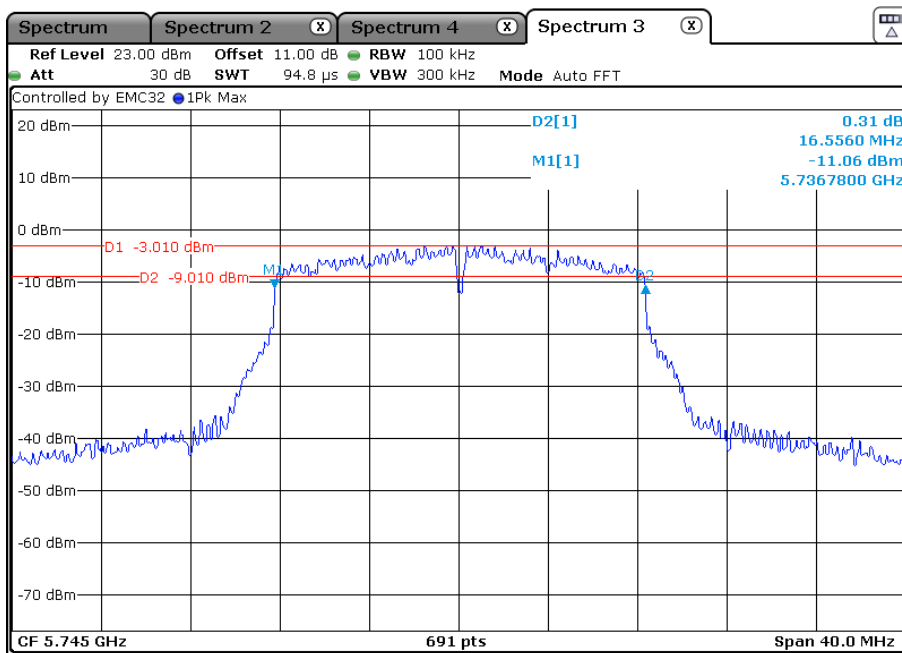
TEST REPORT

Result plot as follows (ANT1):

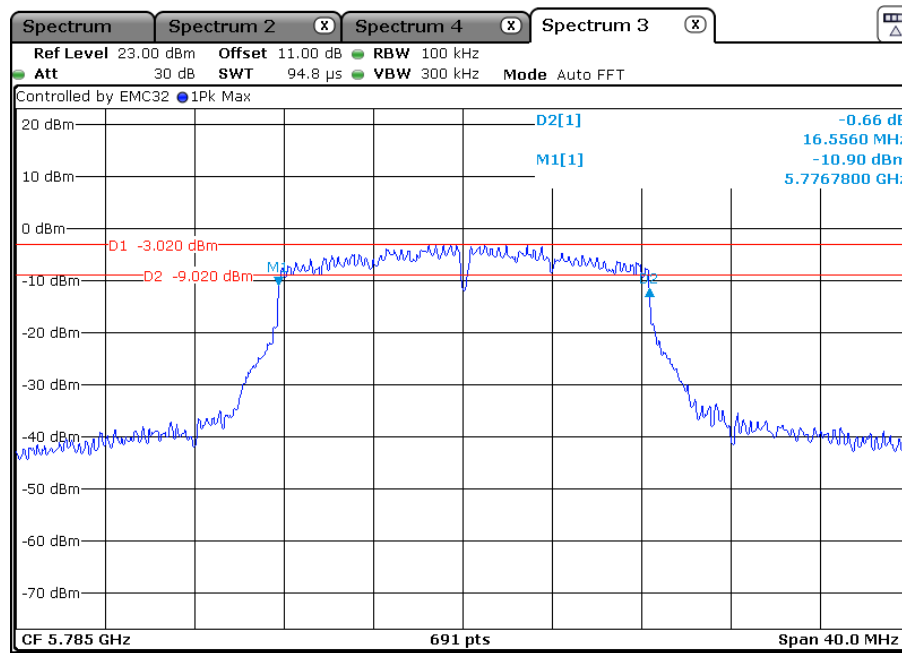
Band IV 5725 MHz to 5850 MHz

802.11a

Channel 149: 5745 MHz:

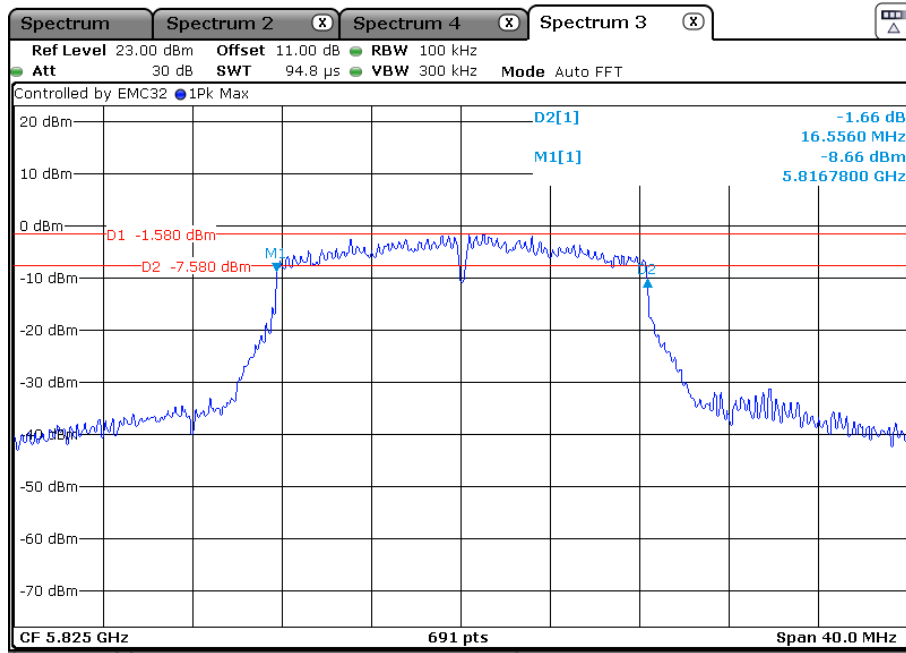


Channel 157: 5785 MHz:



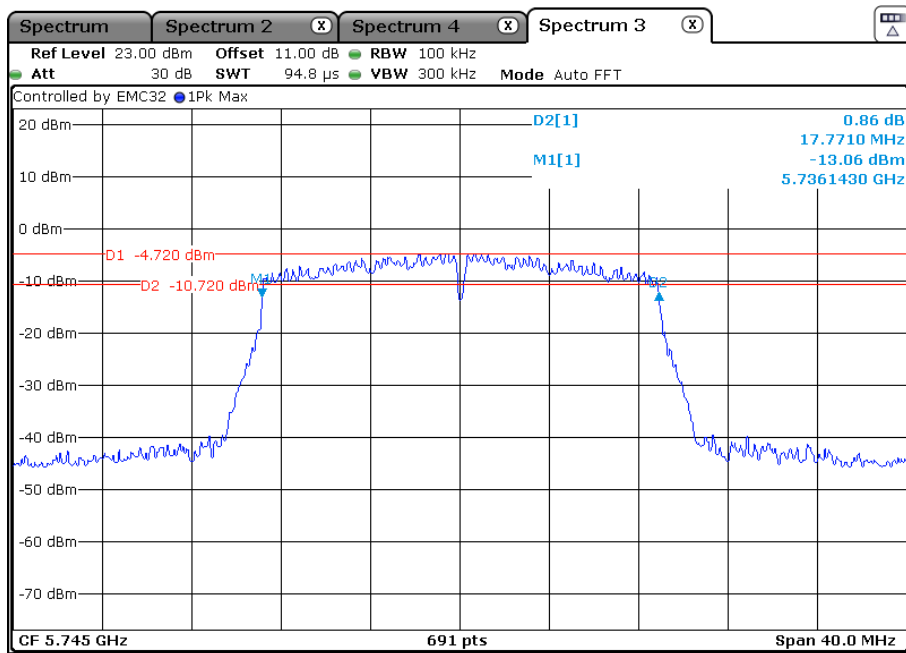
TEST REPORT

Channel 165: 5825 MHz:



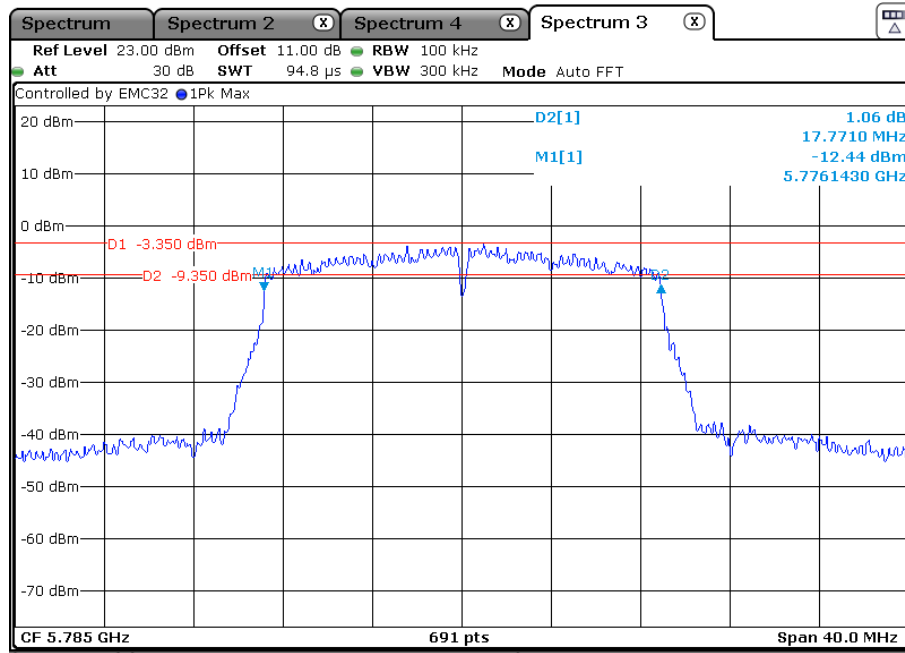
802.11an(HT 20)

Channel 149: 5745 MHz:

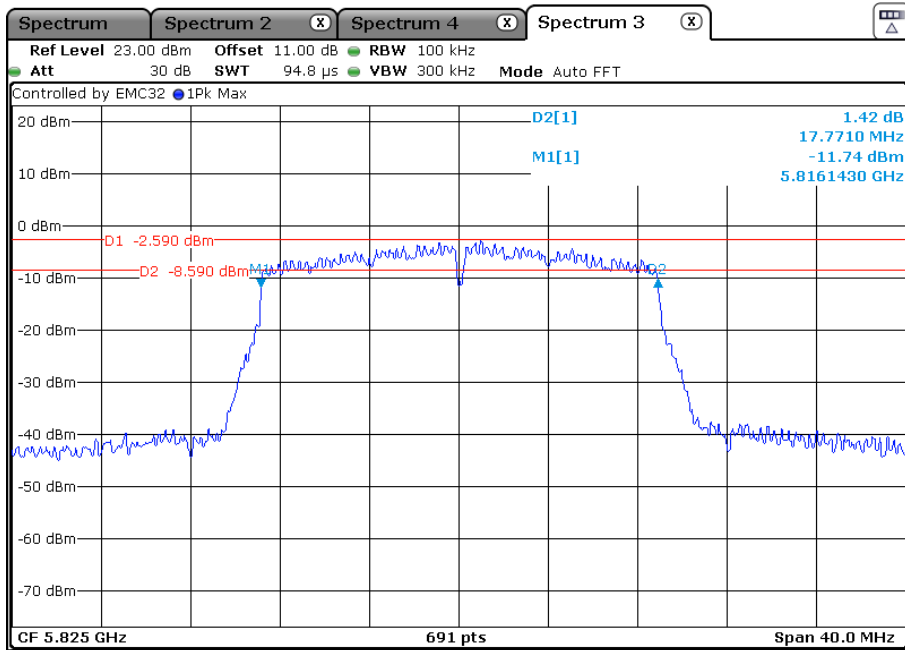


TEST REPORT

Channel 157: 5785 MHz:



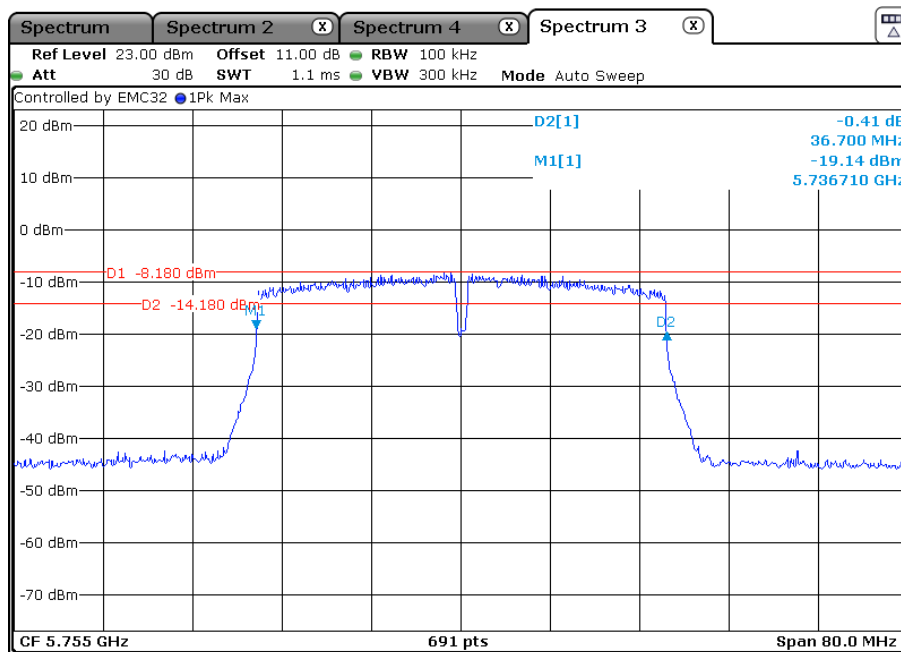
Channel 165: 5825 MHz:



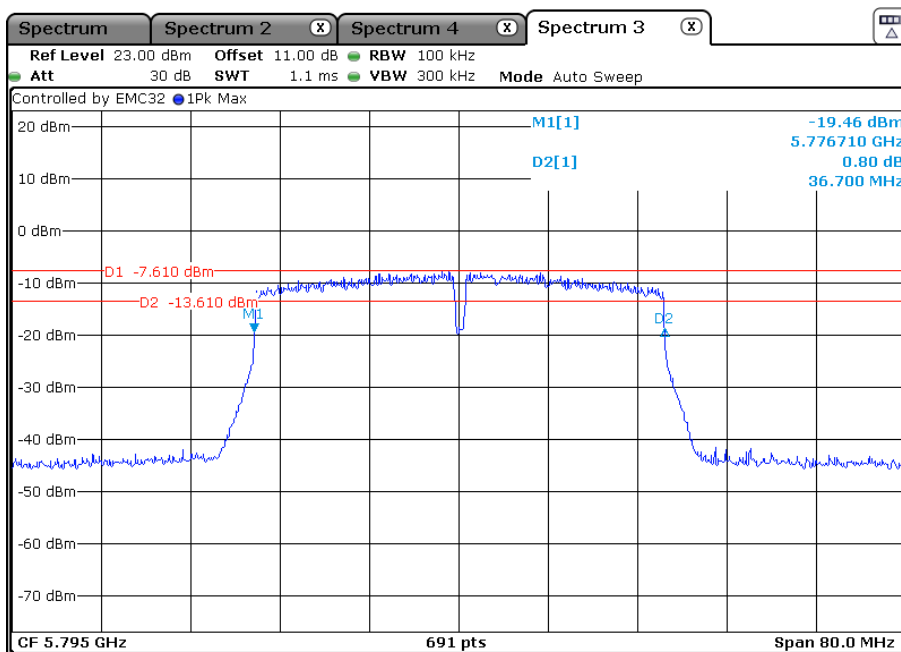
TEST REPORT

802.11an(HT 40)

Channel 151: 5755 MHz:



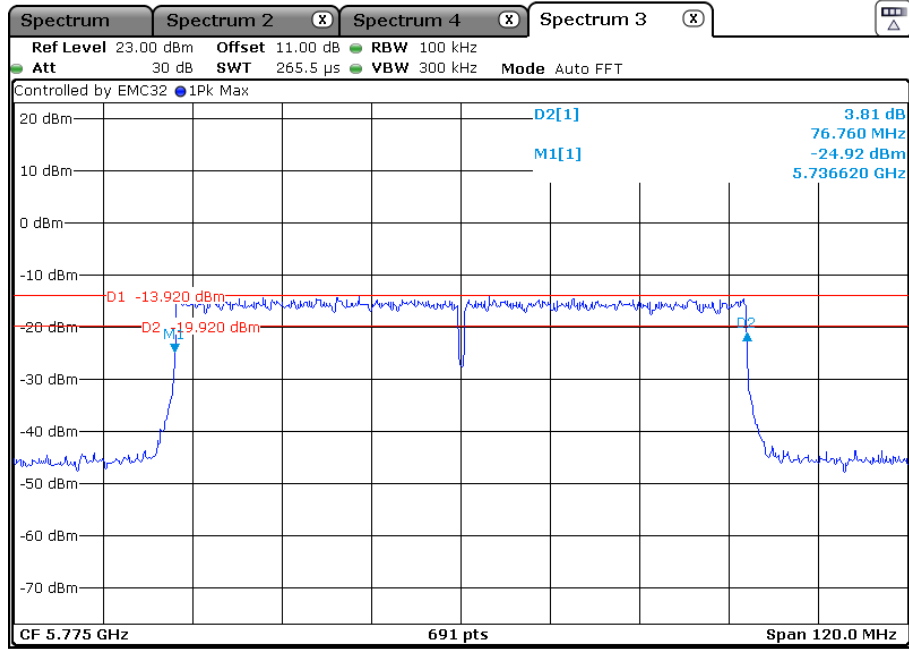
Channel 159: 5795 MHz:



TEST REPORT

802.11ac(HT 80)

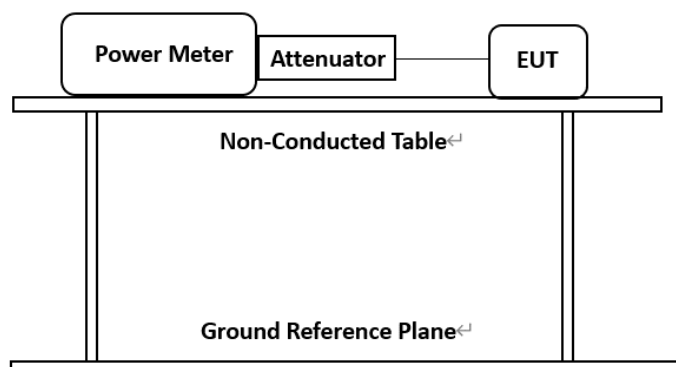
Channel 155: 5775 MHz:



TEST REPORT

4.5 Maximum Conducted Output Power

Test Requirement: FCC Part 15 E clause 15.407(a)
Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause E
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.
Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the power meter.
2. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
3. If the EUT is transmitting at all times, it must be transmitting at its maximum power control level.
4. If the EUT does not transmit continuously, measure the duty cycle and adjust the measurement in dBm by adding $10\log(1/x)$ where x is the duty cycle of transmitter output signal. This measurement is an average over both the ON and OFF periods of the transmitter.
5. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

TEST REPORT

Maximum Conducted Output Power Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm)Total	Limit dBm	Result
36	5180	802.11a	6 Mbps	7.6	9.2	11.5	22.72	Pass
40	5200		6 Mbps	6.5	8.9	10.9		Pass
48	5240		6 Mbps	6.8	9.2	11.2		Pass
36	5180	802.11an (HT20)	7.2 Mbps	6.2	8.4	10.4		Pass
40	5200		7.2 Mbps	7.9	9.9	12.0		Pass
48	5240		7.2 Mbps	6.1	8.2	10.3		Pass
38	5190	802.11an (HT40)	15 Mbps	11.5	13.1	15.4		Pass
46	5230		15 Mbps	11.3	13.1	15.3		Pass
42	5210	802.11ac (HT80)	32.5 Mbps	5.7	8.2	10.1		Pass

Remark: The directional gain= $10 \cdot \log((10^{\frac{ANT1}{10}} + 10^{\frac{ANT2}{10}})^{\frac{2}{2}}) = 7.28 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $24 - (7.28 - 6) = 22.72 \text{dBm}$

Band II (5250MHz-5350MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm)Total	Limit dBm	Result
52	5260	802.11a	6 Mbps	8.5	10	12.3	22.72	Pass
60	5300		6 Mbps	8.0	9.2	11.7		Pass
64	5320		6 Mbps	8.4	9.6	12.1		Pass
52	5260	802.11an (HT20)	7.2 Mbps	7.4	9.7	11.7		Pass
60	5300		7.2 Mbps	7.2	9.6	11.6		Pass
64	5320		7.2 Mbps	7.2	9.7	11.6		Pass
54	5270	802.11an (HT40)	15 Mbps	11.4	12.7	15.1		Pass
62	5310		15 Mbps	6.3	8.4	10.5		Pass
58	5290	802.11ac (HT80)	32.5 Mbps	5.4	7.7	9.7		Pass

Remark: The directional gain= $10 \cdot \log((10^{\frac{ANT1}{10}} + 10^{\frac{ANT2}{10}})^{\frac{2}{2}}) = 7.28 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $24 - (7.28 - 6) = 22.72 \text{dBm}$

TEST REPORT

Band III (5470MHz-5725MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm)Total	Limit dBm	Result
100	5500	802.11a	6 Mbps	8.0	8.9	11.5	22.72	Pass
116	5580		6 Mbps	8.0	8.8	11.4		Pass
140	5700		6 Mbps	6.0	7.6	9.9		Pass
100	5500	802.11an (HT20)	7.2 Mbps	7.1	9.4	11.4		Pass
116	5580		7.2 Mbps	7.1	9.0	11.2		Pass
140	5700		7.2 Mbps	5.1	6.6	8.9		Pass
102	5510	802.11an (HT40)	15 Mbps	6.1	8.3	10.3		Pass
110	5550		15 Mbps	10.2	12.9	14.8		Pass
134	5670		15 Mbps	6.4	8.4	10.5		
134	5670	802.11ac (HT80)	32.5 Mbps	5.0	7.6	9.5		Pass

Remark: The directional gain= $10 \cdot \log((10^{(ANT1/20)} + 10^{(ANT2/20)})^{2/2}) = 7.28\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $24 - (7.28 - 6) = 22.72\text{dBm}$

Band IV (5725MHz-5850MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm)Total	Limit dBm	Result
149	5745	802.11a	6 Mbps	9.8	10.8	13.3	28.72	Pass
157	5785		6 Mbps	10.3	11.3	13.8		Pass
165	5825		6 Mbps	10.5	11.9	14.3		Pass
149	5745	802.11an (HT20)	7.2 Mbps	8.5	9.8	12.2		Pass
157	5785		7.2 Mbps	9	9.9	12.5		Pass
165	5825		7.2 Mbps	9.6	10.9	13.3		Pass
151	5755	802.11an (HT40)	15 Mbps	8.2	9.3	11.8		Pass
159	5795		15 Mbps	8.6	9.6	12.1		Pass
155	5775	802.11ac (HT80)	32.5 Mbps	6.4	7.5	10.0		Pass

Remark: The directional gain= $10 \cdot \log((10^{(ANT1/20)} + 10^{(ANT2/20)})^{2/2}) = 7.28\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.28 - 6) = 22.72\text{dBm}$

TEST REPORT

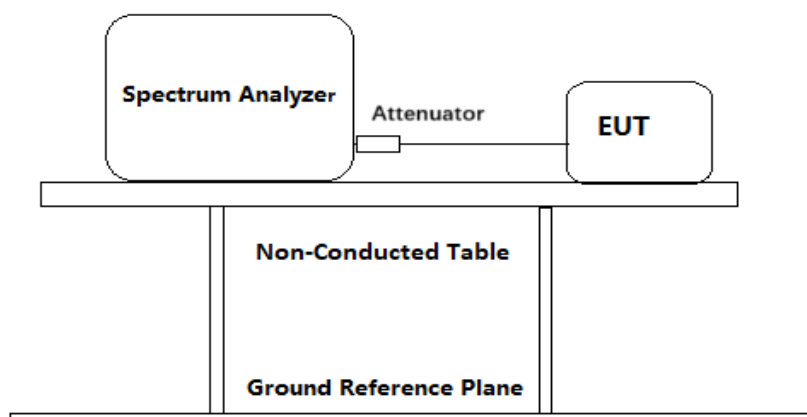
Remark: The measured power in the table has considered the compensation of cable loss, attenuator and duty cycle.

The unit does meet the FCC requirements.

4.6 Maximum Peak Power Spectral Density

Test Requirement: FCC Part 15 E clause 15.407(a)
Test Method: FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01, Clause F
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.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss = 1dB, with 10 dB attenuator) from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer:
For Band I (5150MHz-5250MHz), Band II (5250MHz-5350MHz),
Band III (5470MHz-5725MHz)
 - a) Set the RBW = 1MHz.
 - b) Set the VBW $\geq [3 \times \text{RBW}]$.
 - c) Set the span ≥ 26 dB Bandwidth
 - d) Detector = peak
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW.

For Band IV (5725MHz-5850MHz)

TEST REPORT

- a) Set the RBW = 500kHz.
 - b) Set the VBW $\geq [3 \times \text{RBW}]$.
 - c) Set the span ≥ 26 dB Bandwidth.
 - d) Detector = peak
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW. Measure the Power Spectral Density of the test frequency with special test status.
3. Measure the Power Spectral Density of the test frequency with special test status.
 4. Repeat until all the test status is investigated.
 5. Report the worst case.

Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Band I (5150MHz-5250MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm/MHz)Total	Limit dBm/ MHz	Result
36	5180	802.11a	6 Mbps	5.40	5.79	8.61	9.72	Pass
40	5200		6 Mbps	5.22	5.98	8.63		Pass
48	5240		6 Mbps	6.09	5.70	8.91		Pass
36	5180	802.11an (HT20)	7.2 Mbps	4.70	4.05	7.40		Pass
40	5200		7.2 Mbps	5.12	6.82	9.06		Pass
48	5240		7.2 Mbps	5.44	4.99	8.23		Pass
38	5190	802.11an (HT40)	15 Mbps	5.12	6.58	8.92		Pass
46	5230		15 Mbps	4.85	7.01	9.07		Pass
42	5210	802.11ac (HT80)	32.5 Mbps	-3.36	-1.61	0.61		Pass

Remark: The directional gain= $10 \cdot \text{LOG}((10^{(\text{ANT1}/20)} + 10^{(\text{ANT2}/20)})^2/2) = 7.28\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $11 - (7.28 - 6) = 9.7\text{dBm/MHz}$

TEST REPORT

Band II (5250MHz-5350MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm/MHz)Total	Limit dBm/ MHz	Result
52	5260	802.11a	6 Mbps	5.55	6.92	9.30	9.72	Pass
60	5300		6 Mbps	5.27	5.71	8.51		Pass
64	5320		6 Mbps	5.54	6.85	9.25		Pass
52	5260	802.11an (HT20)	7.2 Mbps	4.67	7.03	9.02		Pass
60	5300		7.2 Mbps	3.83	6.97	8.69		Pass
64	5320		7.2 Mbps	4.66	6.71	8.82		Pass
54	5270	802.11an (HT40)	15 Mbps	4.81	6.24	8.59		Pass
62	5310		15 Mbps	0.31	2.65	4.65		Pass
58	5290	802.11ac (HT80)	32.5 Mbps	-4.22	-2.31	-0.15		Pass

Remark: The directional gain= $10 \cdot \log((10^{\frac{ANT1}{10}} + 10^{\frac{ANT2}{10}})^{\frac{2}{2}}) = 7.3 \text{ dBi} > 6 \text{ dBi}$, so the power limit shall be reduced to $11 - (7.3 - 6) = 9.7 \text{ dBm/MHz}$

Band III (5470MHz-5725MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm/MHz)Total	Limit dBm/ MHz	Result
100	5500	802.11a	6 Mbps	6.24	6.38	9.32	9.72	Pass
116	5580		6 Mbps	6.07	6.88	9.50		Pass
140	5700		6 Mbps	3.30	6.30	8.06		Pass
100	5500	802.11an (HT20)	7.2 Mbps	5.57	6.76	9.22		Pass
116	5580		7.2 Mbps	5.13	6.54	8.90		Pass
140	5700		7.2 Mbps	2.81	4.02	6.47		Pass
102	5510	802.11an (HT40)	15 Mbps	0.66	2.14	4.47		Pass
110	5550		15 Mbps	3.42	7.16	8.69		Pass
134	5670		15 Mbps	0.85	3.07	5.11		Pass
106	5530	802.11ac (HT80)	32.5 Mbps	-4.19	-0.86	0.80		Pass

TEST REPORT

Remark: The directional gain= $10 \cdot \log((10^{ANT1/20} + 10^{ANT2/20})^2/2) = 7.3\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $11 - (7.3 - 6) = 9.7\text{dBm/MHz}$

Band IV (5725MHz-5850MHz)

Channel No.	Frequency (MHz)	Mode	Data Rate	ANT1 (dBm)	ANT2 (dBm)	Maximum Conducted output power (dBm/500kHz) Total	Limit	Result
149	5745	802.11a	6 Mbps	4.06	6.11	8.22	28.72dBm/500kHz	Pass
157	5785		6 Mbps	3.67	5.49	7.68		Pass
165	5825		6 Mbps	5.37	6.66	9.07		Pass
149	5745	802.11an (HT20)	7.2 Mbps	2.88	5.27	7.25		Pass
157	5785		7.2 Mbps	3.54	5.08	7.39		Pass
165	5825		7.2 Mbps	4.59	6.17	8.46		Pass
151	5755	802.11an (HT40)	15 Mbps	-0.73	0.39	2.88		Pass
159	5795		15 Mbps	-0.42	0.18	2.90		Pass
155	5775	802.11ac (HT80)	32.5 Mbps	-6.60	-3.18	-1.55		Pass

Remark: The directional gain= $10 \cdot \log((10^{ANT1/20} + 10^{ANT2/20})^2/2) = 7.28\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.28 - 6) = 28.72\text{dBm/500kHz}$

Test result: Level = Read Level + Cable Loss(1dB).

The unit does meet the FCC requirements

TEST REPORT

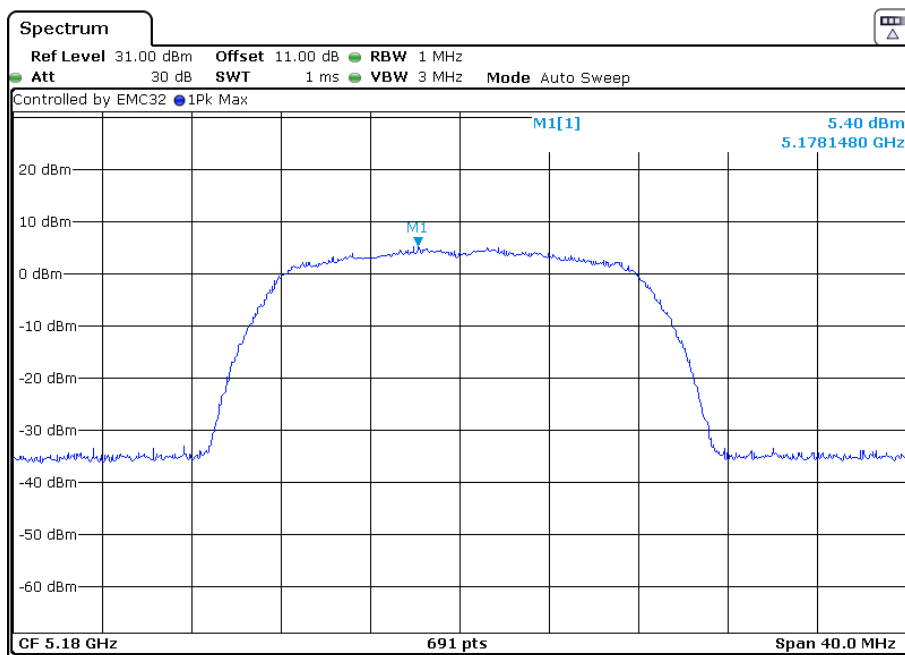
Result plot as follows:

Band I 5150 MHz to 5250 MHz

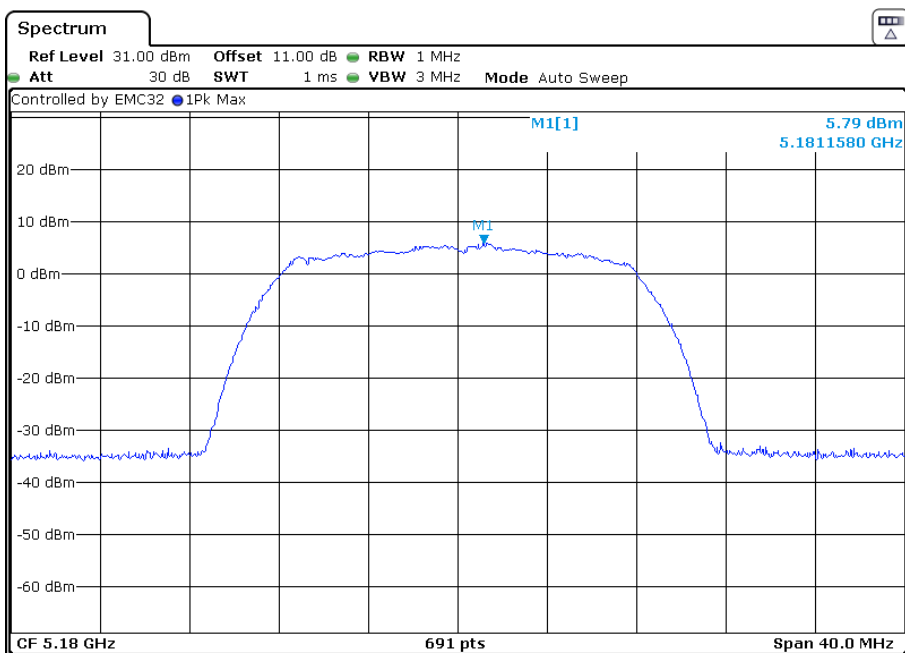
802.11a

Channel 36: 5180 MHz:

ANT1



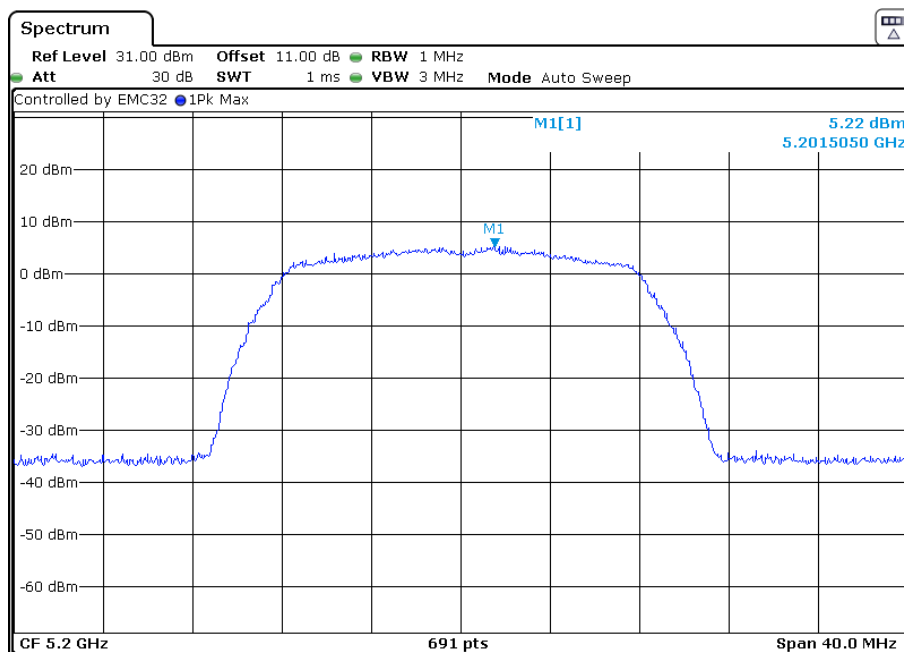
ANT2



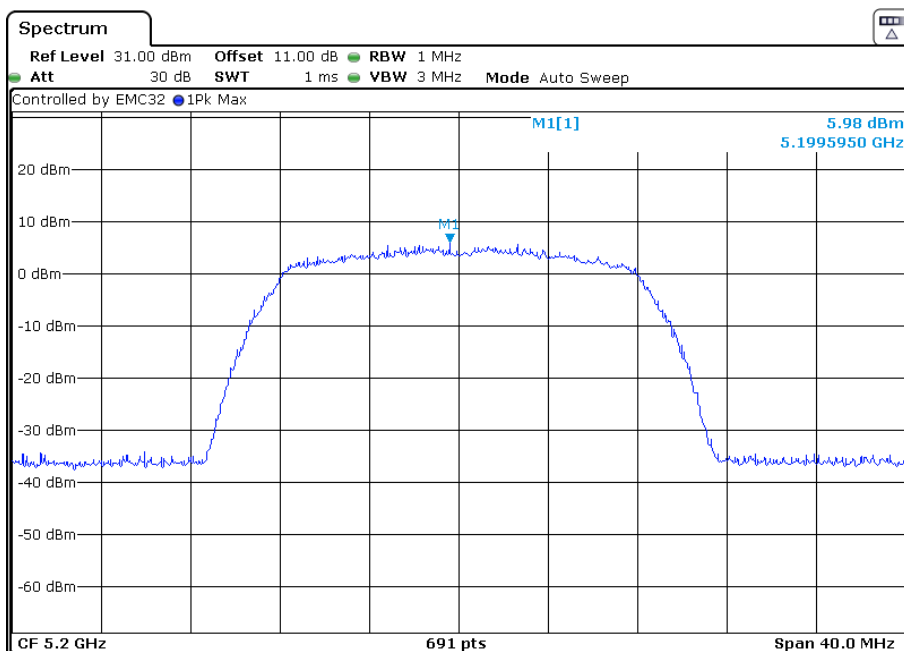
TEST REPORT

Channel 40: 5200 MHz:

ANT1



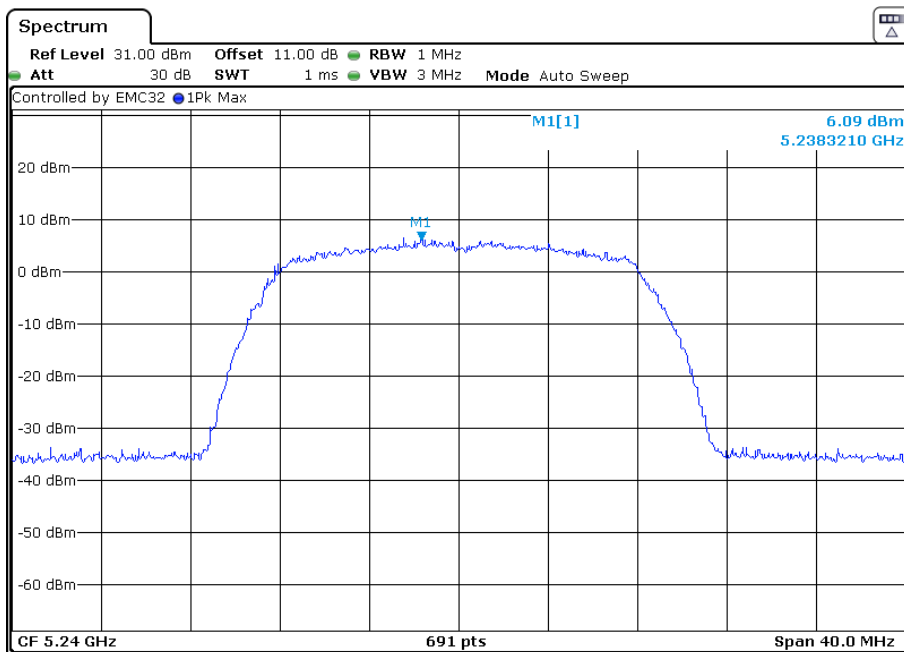
ANT2



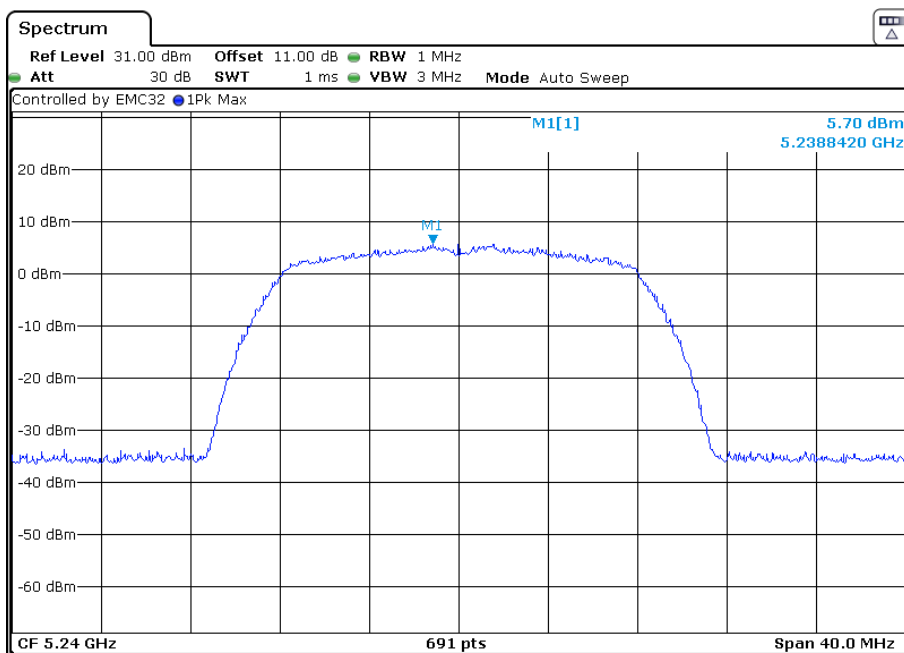
TEST REPORT

Channel 48: 5240 MHz:

ANT1



ANT2

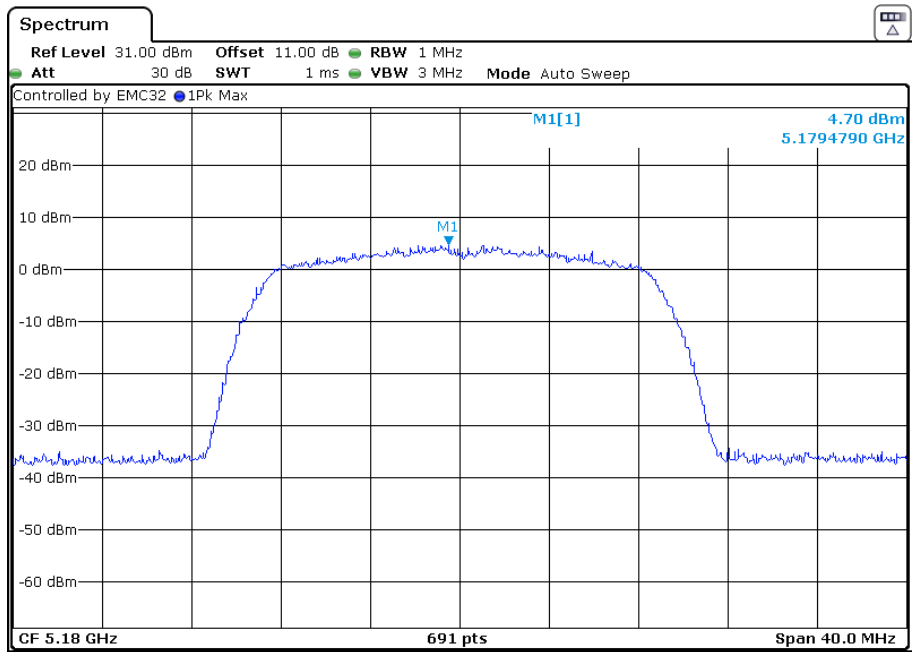


TEST REPORT

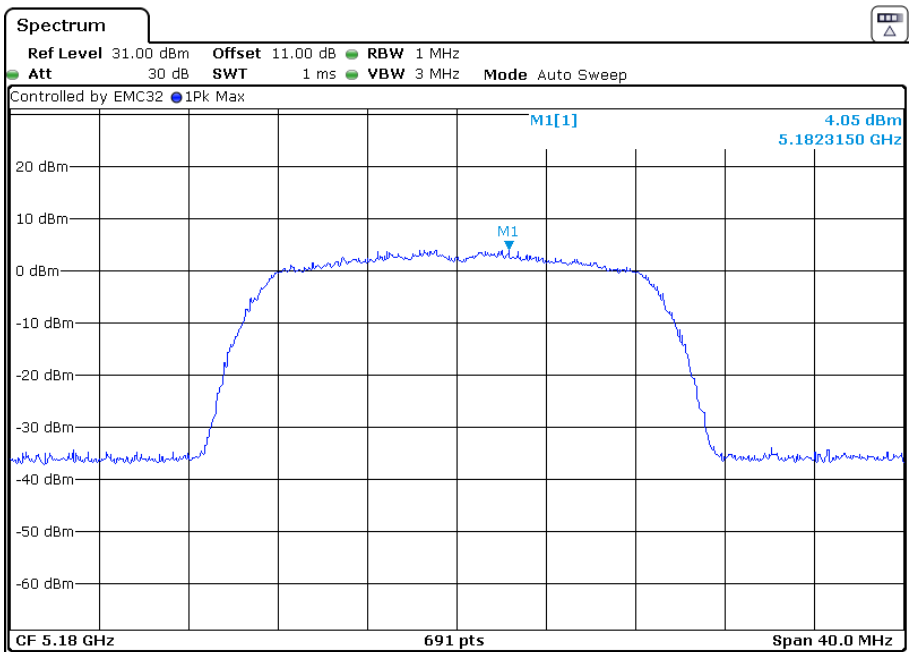
802.11an(HT 20)

Channel 36: 5180 MHz:

ANT1



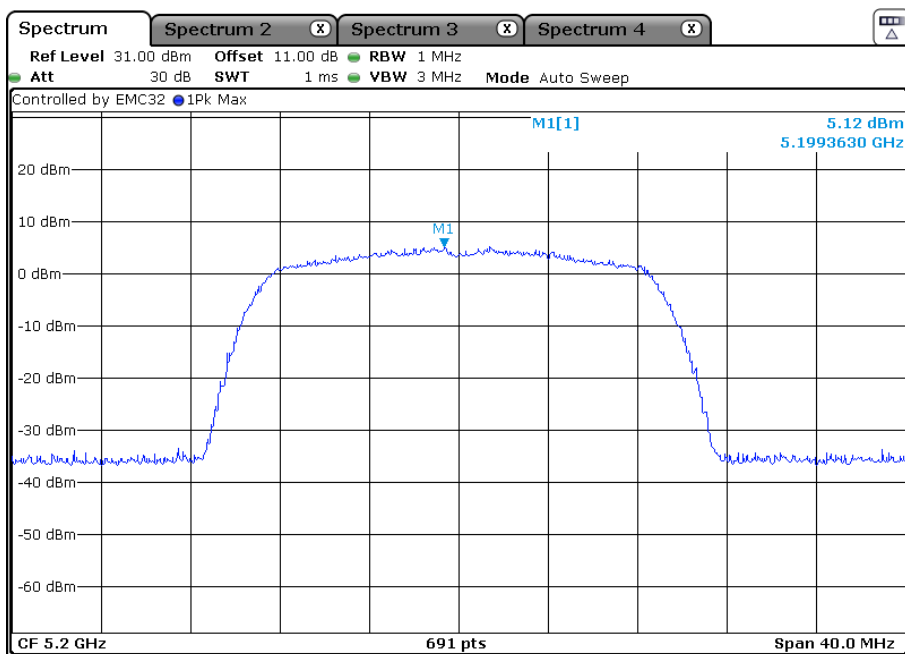
ANT2



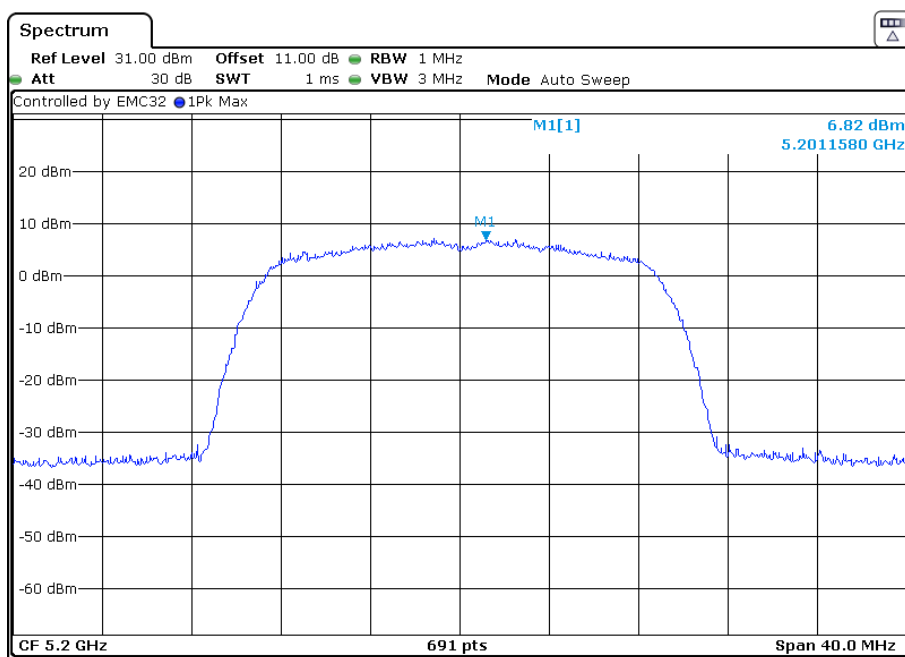
TEST REPORT

Channel 40: 5200 MHz:

ANT1



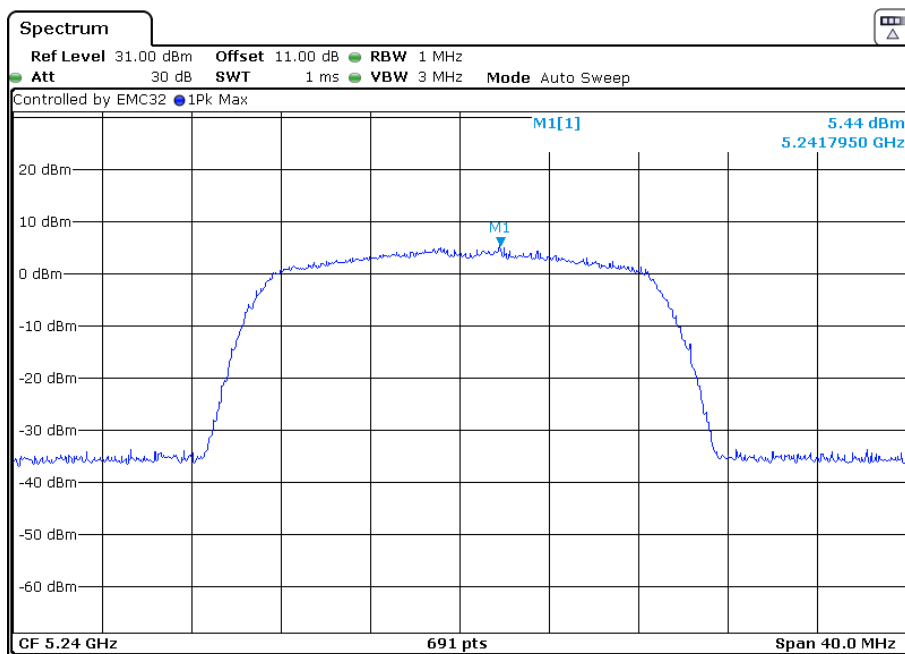
ANT2



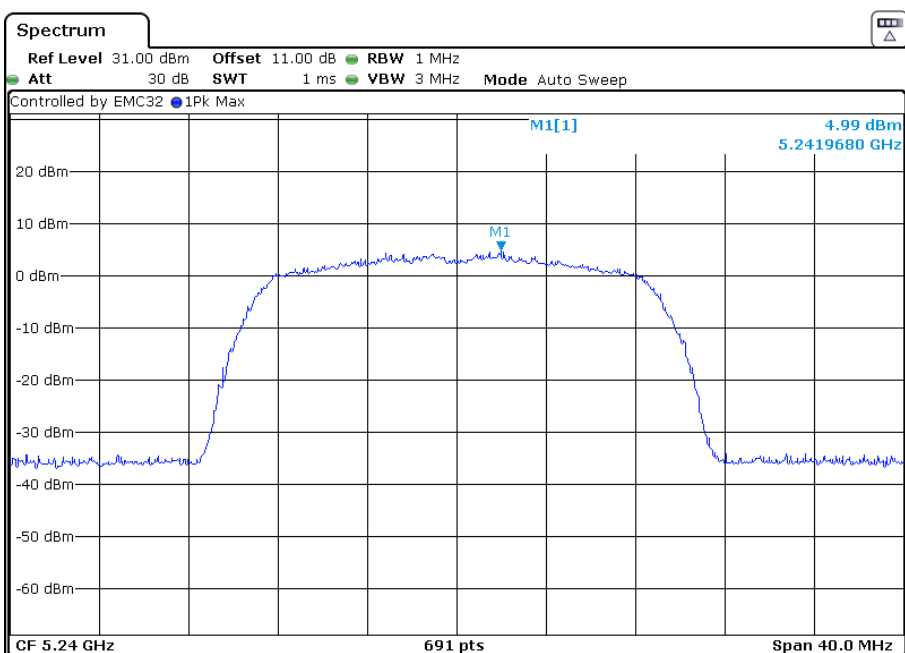
TEST REPORT

Channel 48: 5240 MHz:

ANT1



ANT2

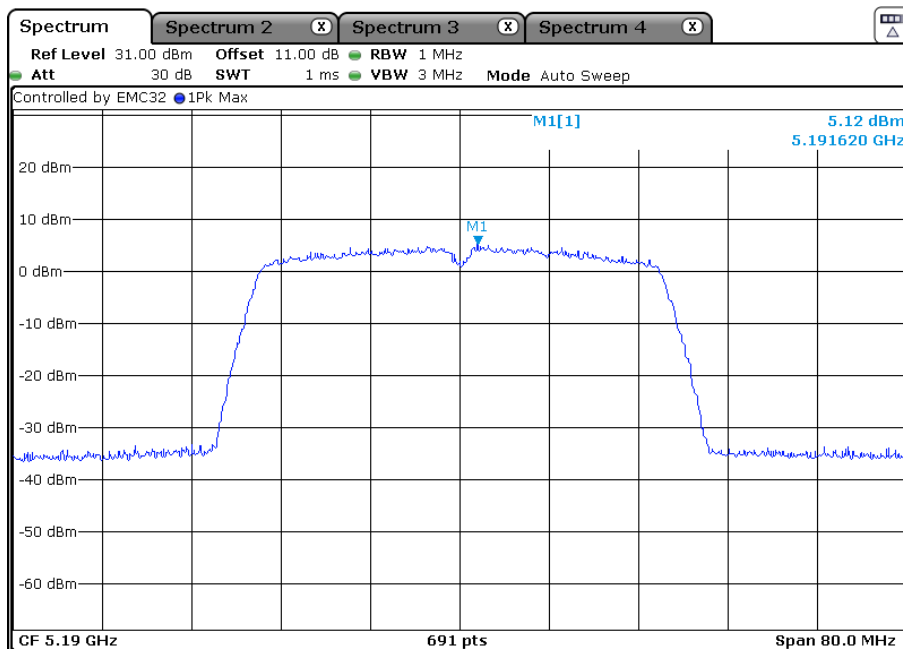


TEST REPORT

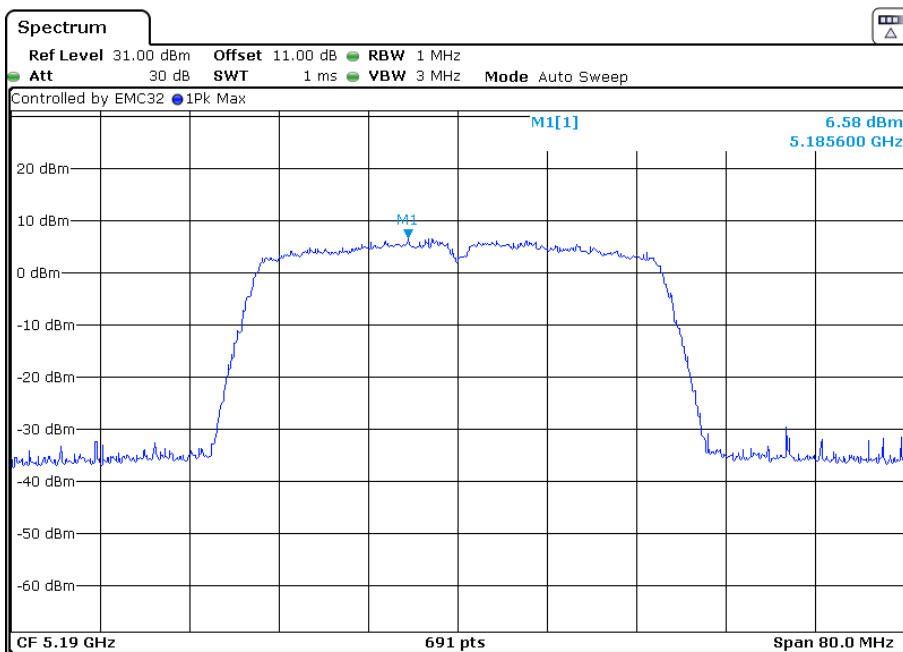
802.11an(HT 40)

Channel 38: 5190 MHz:

ANT1



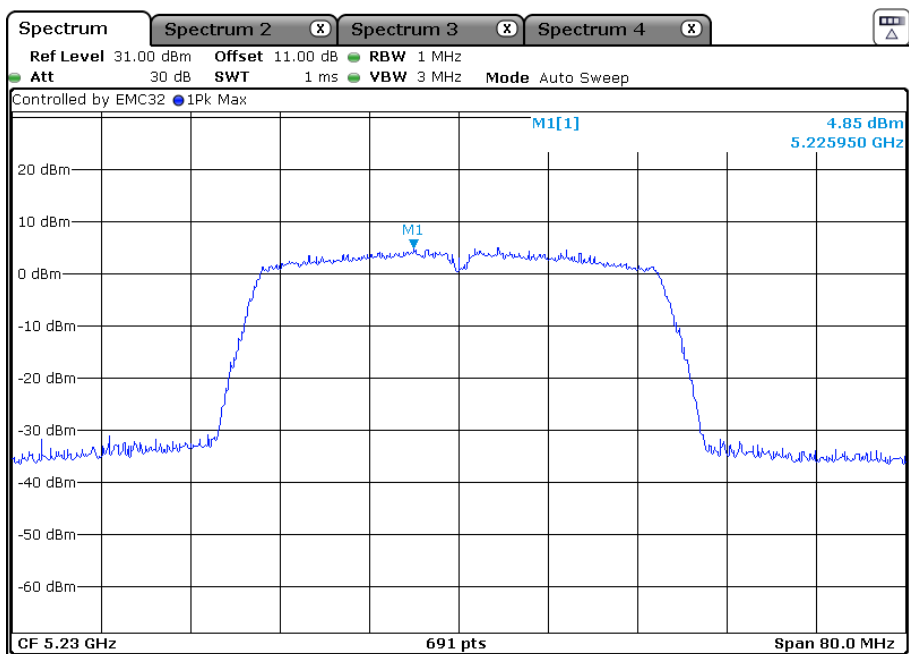
ANT2



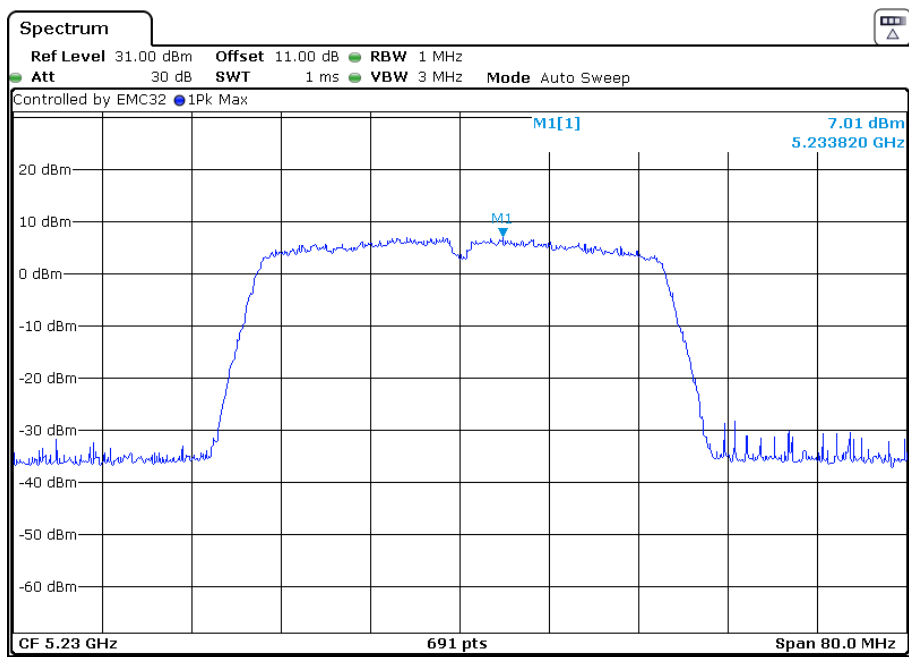
TEST REPORT

Channel 46: 5230 MHz:

ANT1



ANT2

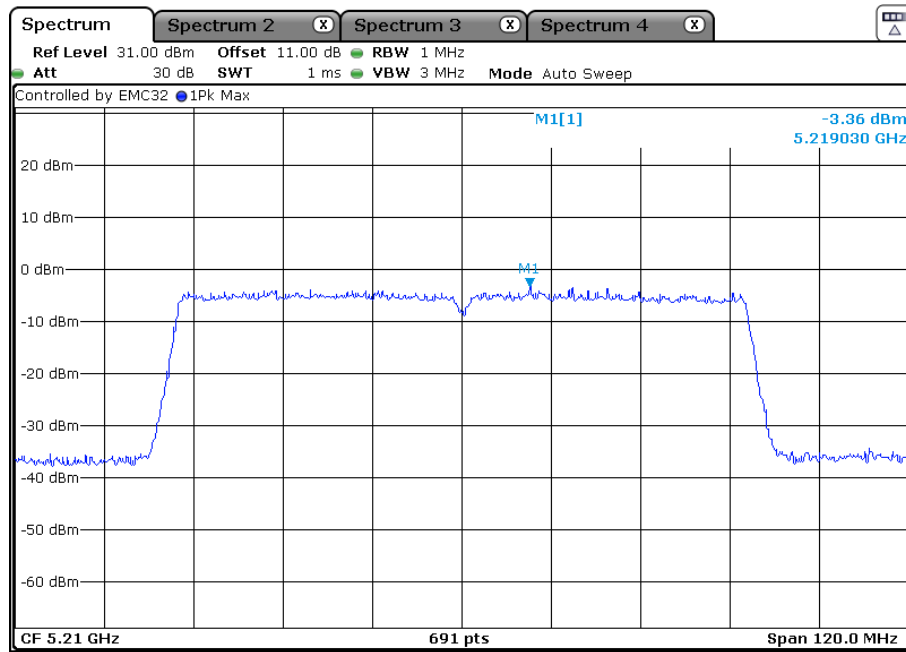


TEST REPORT

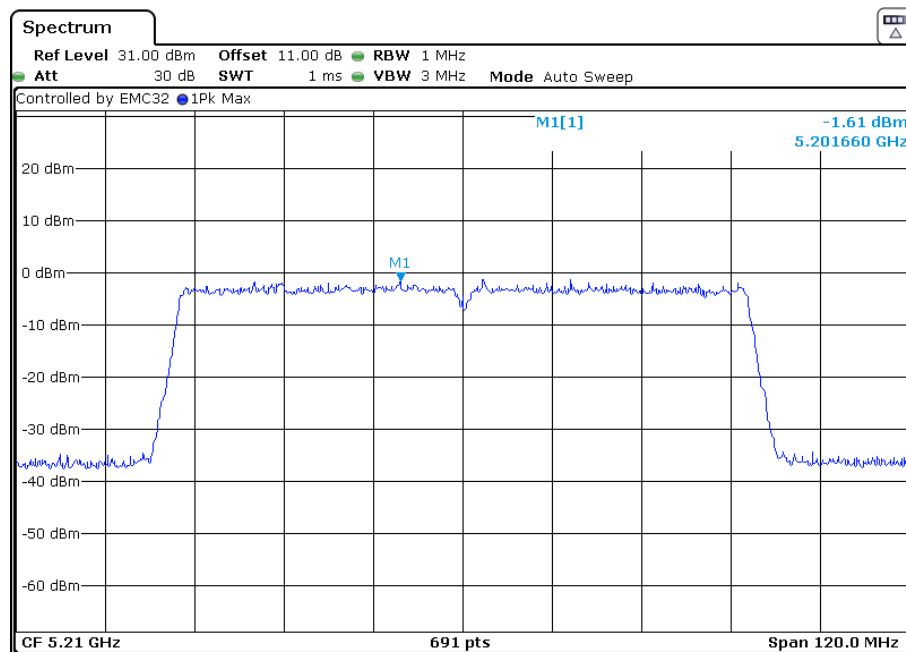
802.11ac(HT 80)

Channel 42: 5210 MHz:

ANT1



ANT2



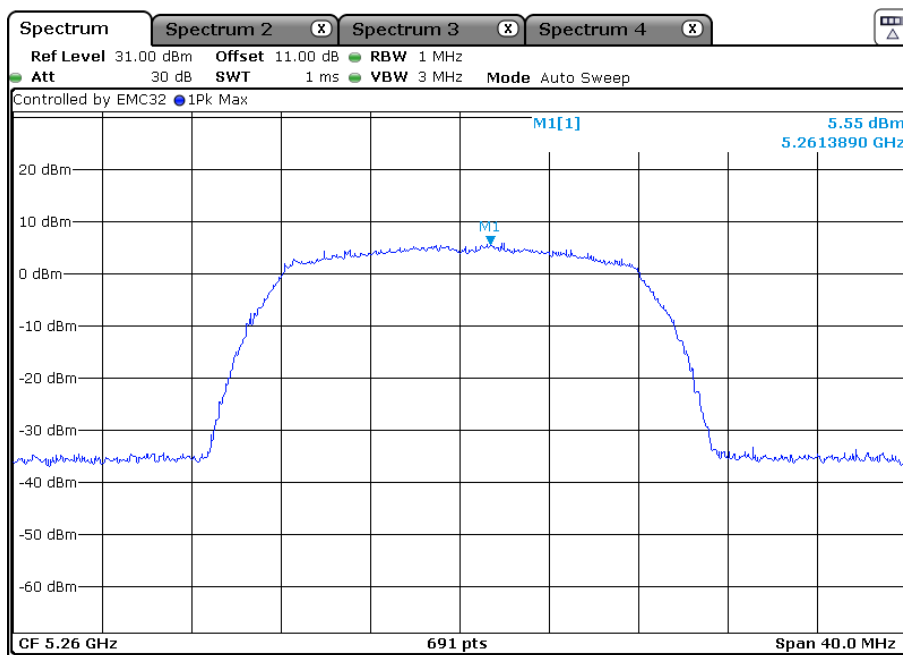
TEST REPORT

Band II 5250 MHz to 5350 MHz

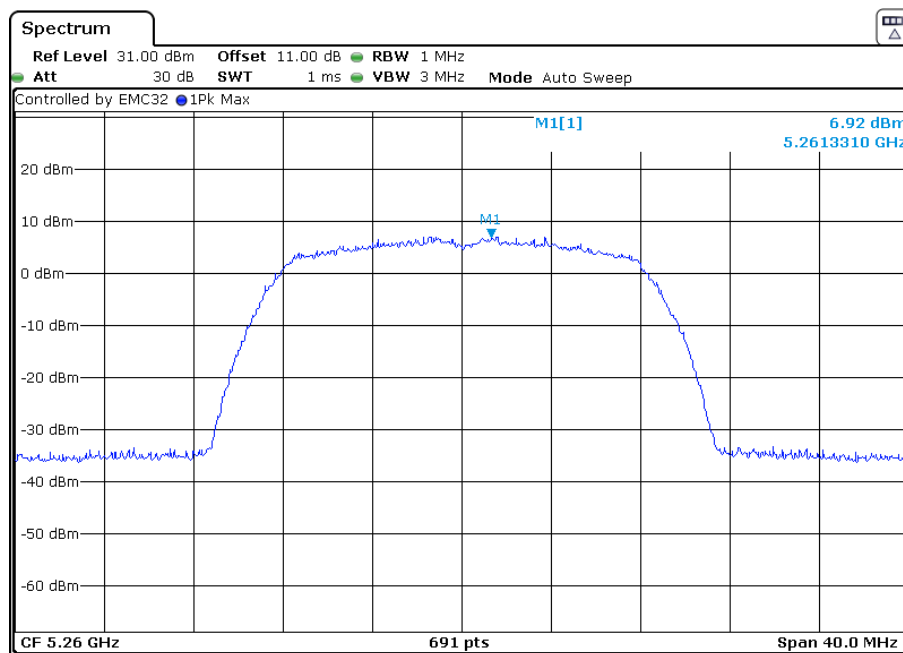
802.11a

Channel 52: 5260 MHz:

ANT1



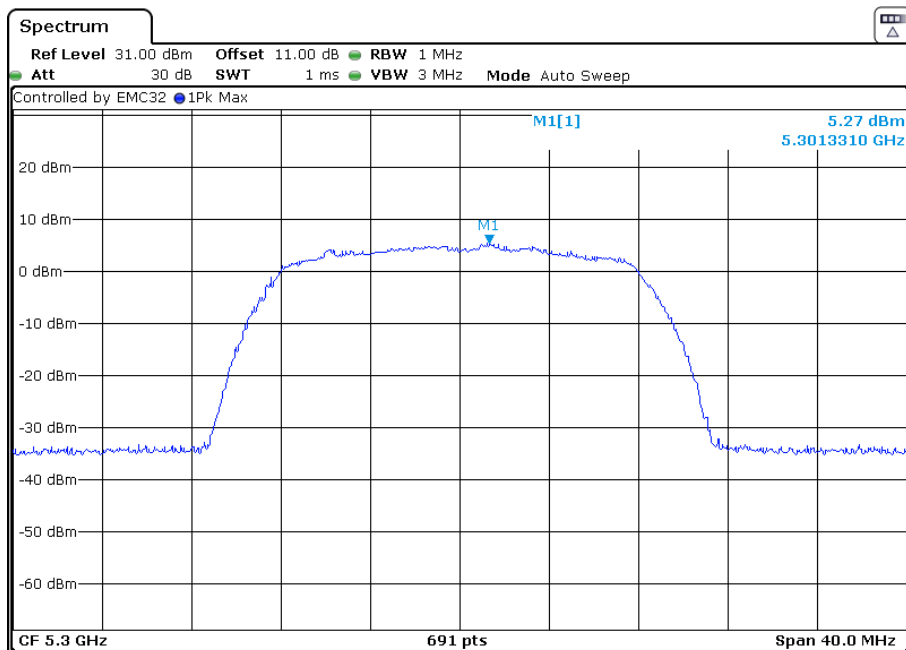
ANT2



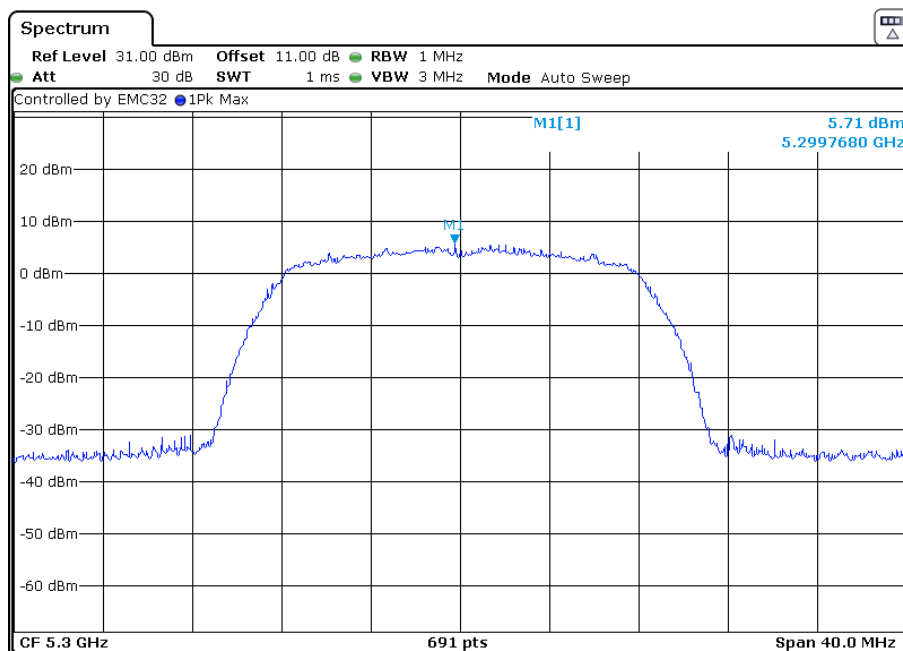
TEST REPORT

Channel 60: 5300 MHz:

ANT1



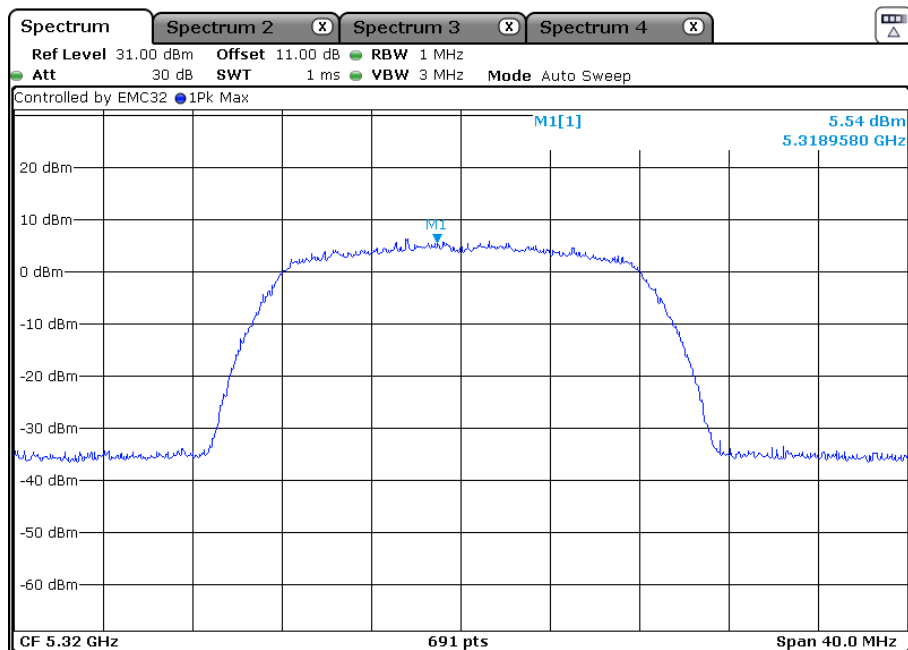
ANT2



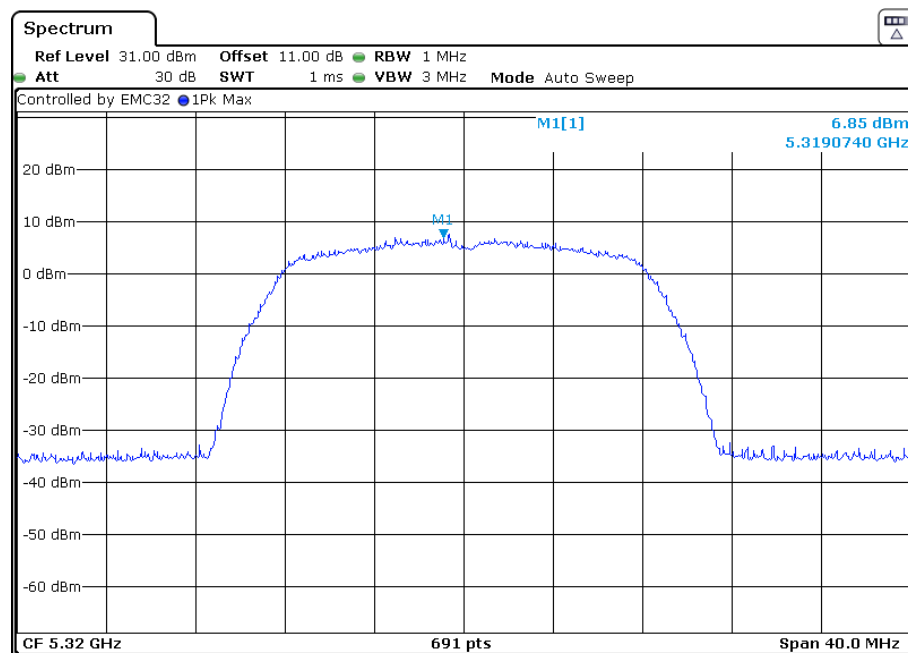
TEST REPORT

Channel 64: 5320 MHz:

ANT1



ANT2



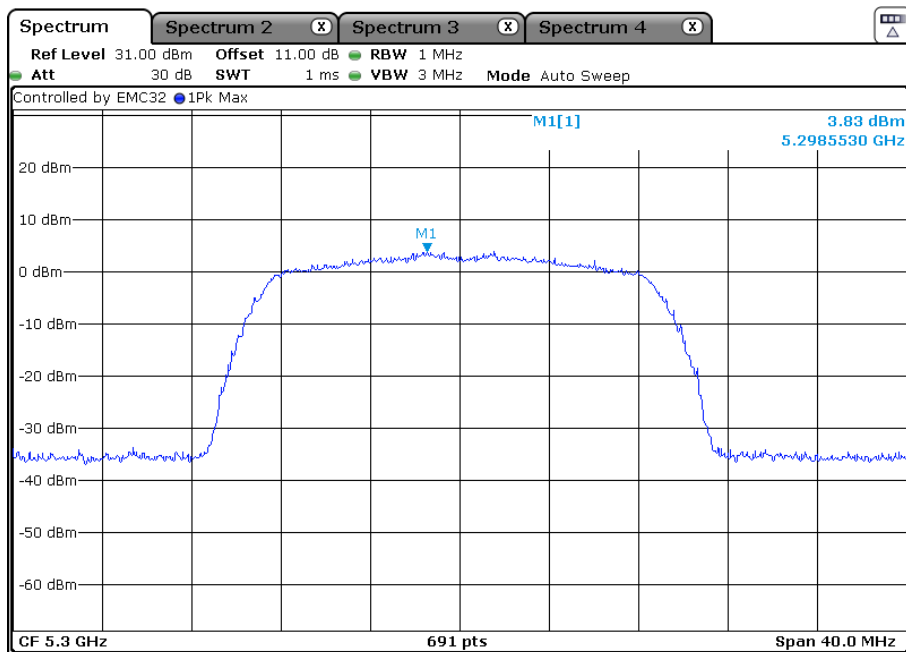
802.11an(HT 20)
Channel 52: 5260 MHz:
ANT1



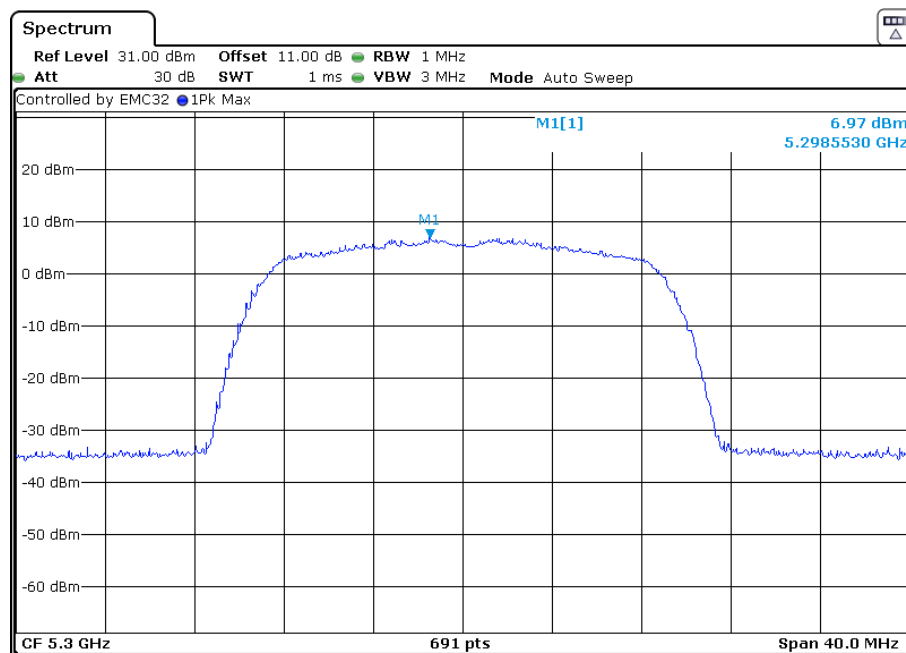
TEST REPORT

Channel 60: 5300 MHz:

ANT1



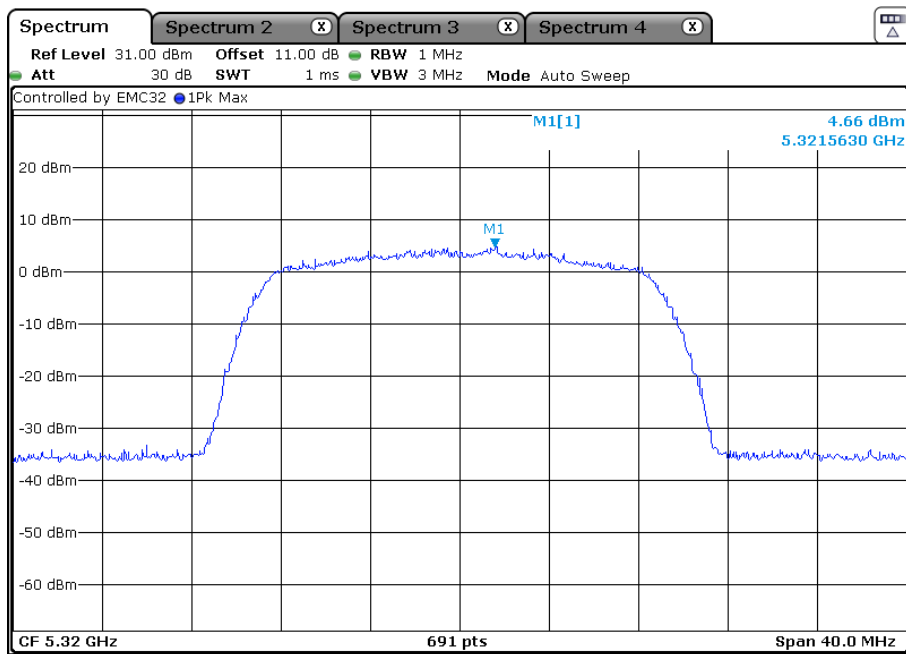
ANT2



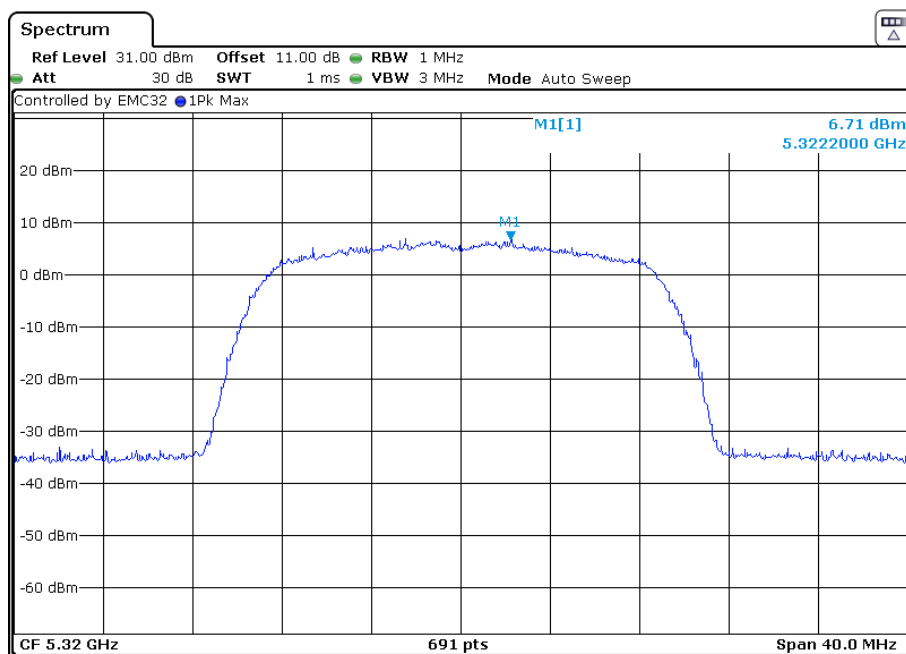
TEST REPORT

Channel 64: 5320 MHz:

ANT1



ANT2

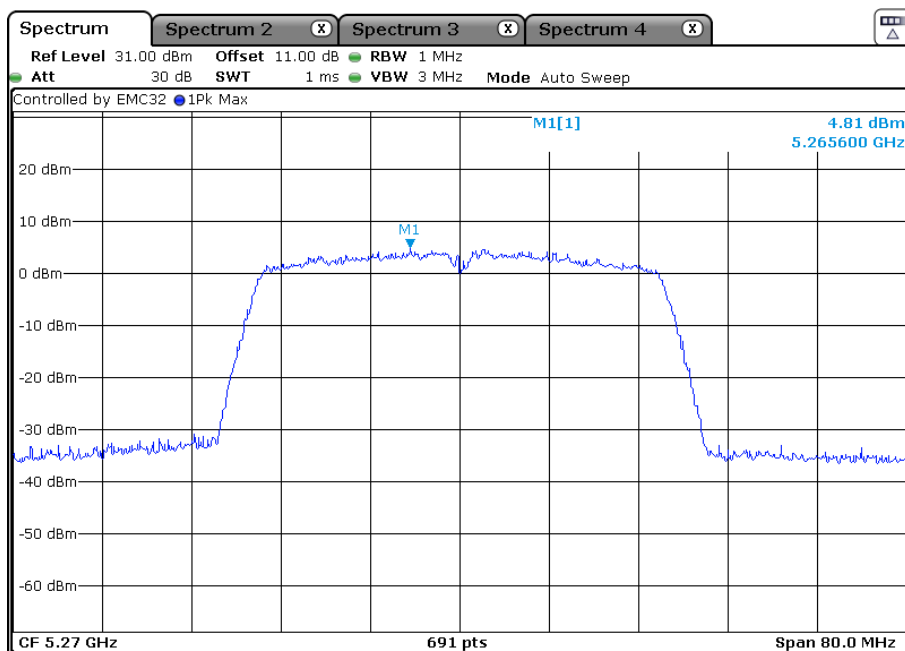


TEST REPORT

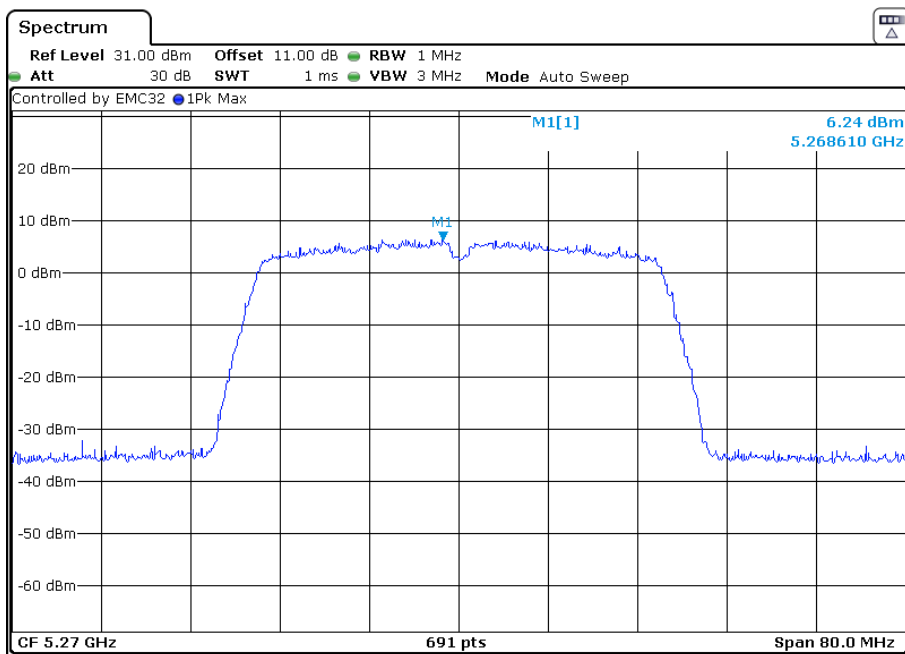
802.11an(HT 40)

Channel 54: 5270 MHz:

ANT1



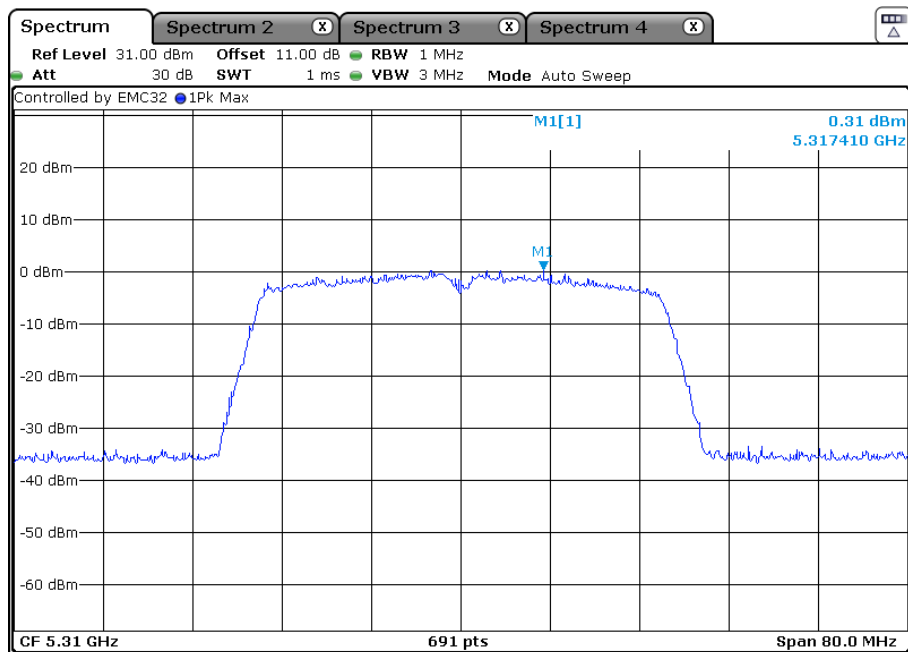
ANT2



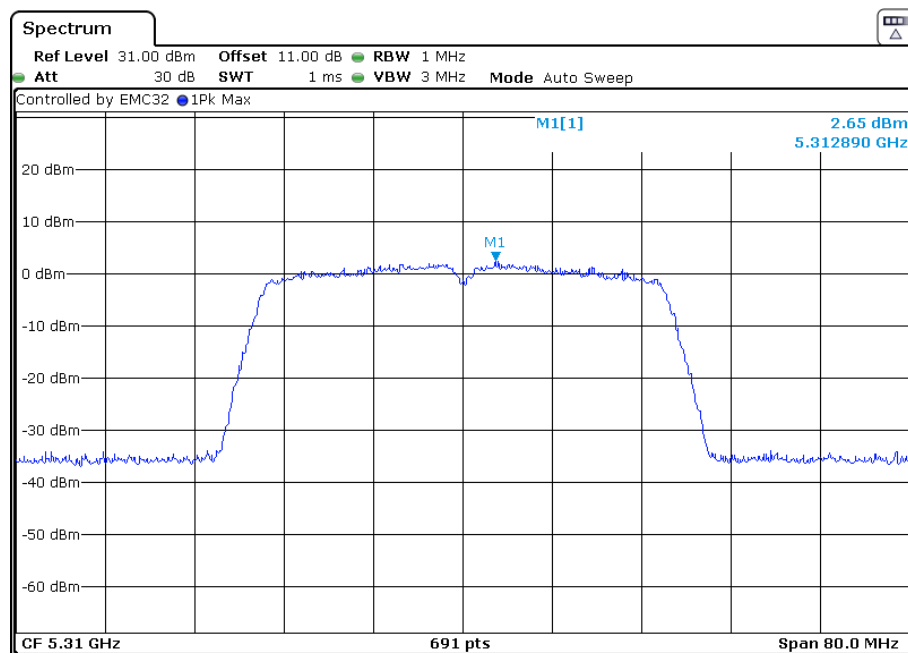
TEST REPORT

Channel 62: 5310 MHz:

ANT1



ANT2

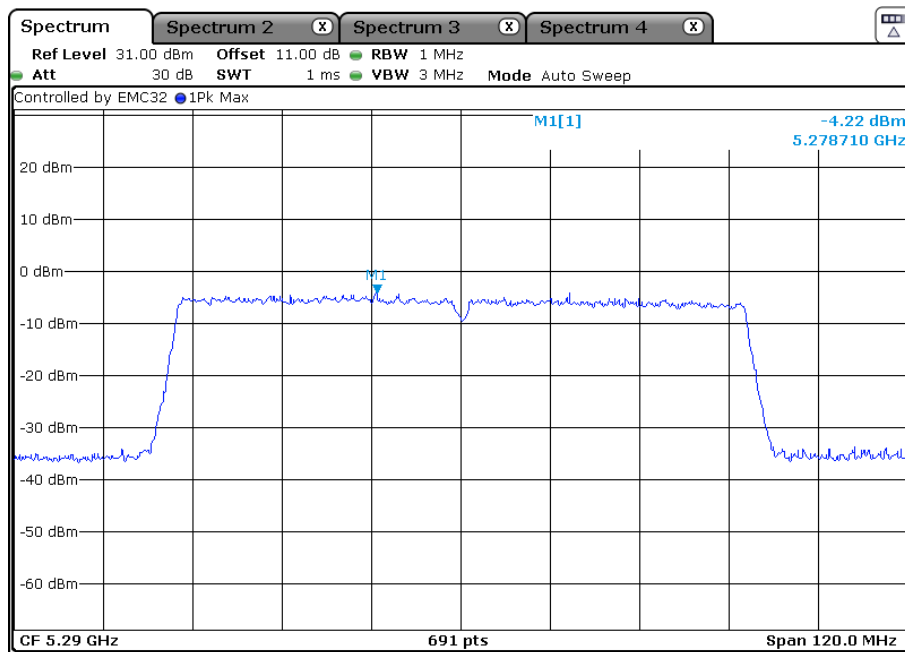


TEST REPORT

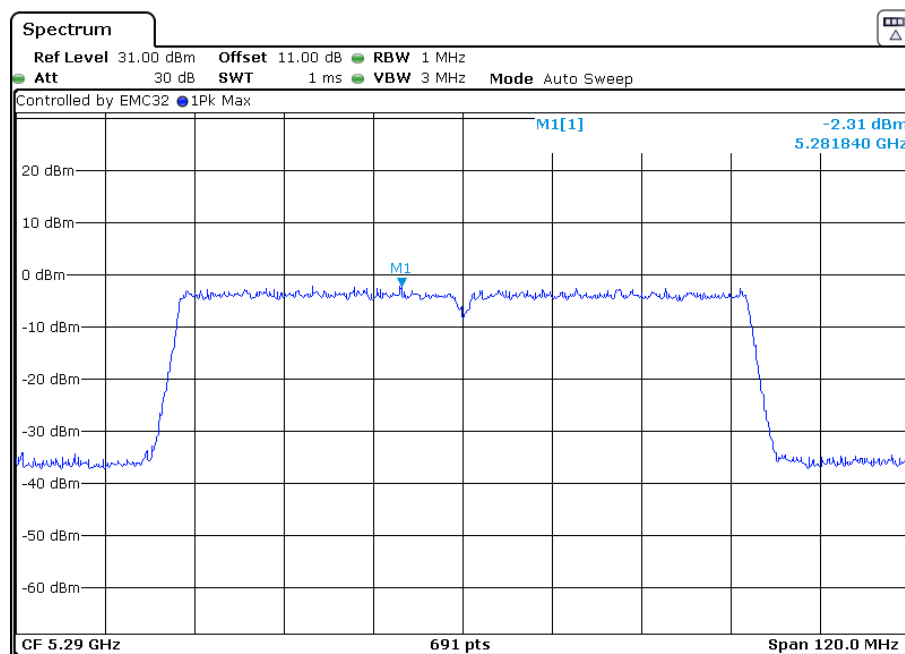
802.11ac(HT 80)

Channel 58: 5290 MHz:

ANT1



ANT2



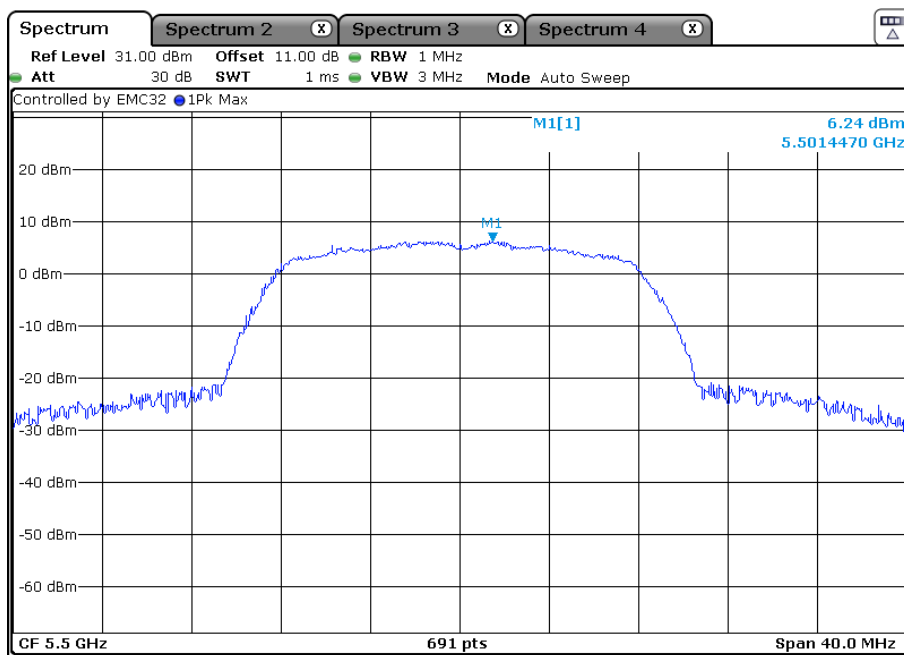
TEST REPORT

Band III 5470 MHz to 5725 MHz

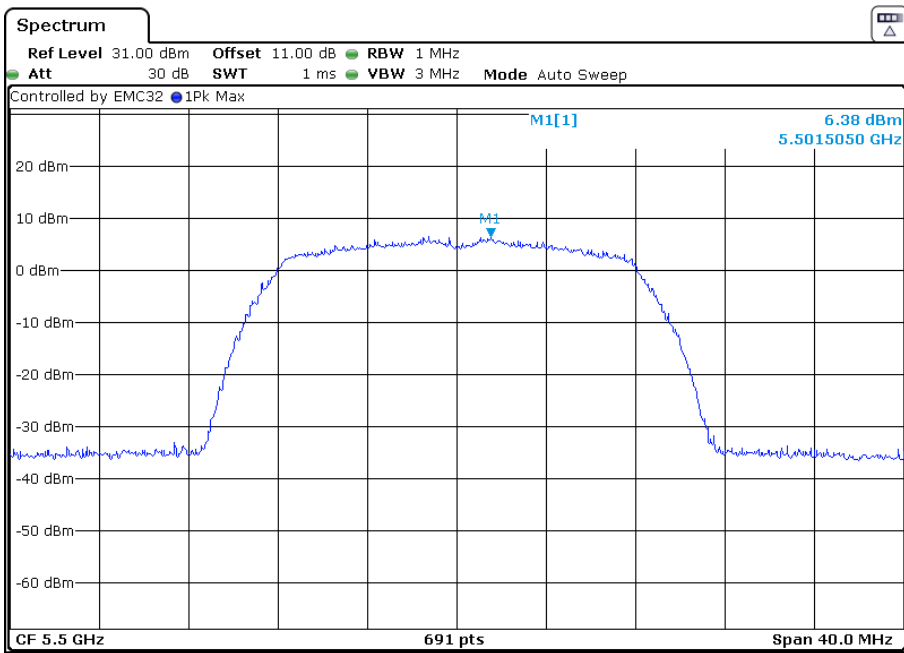
802.11a

Channel 100: 5500 MHz:

ANT1



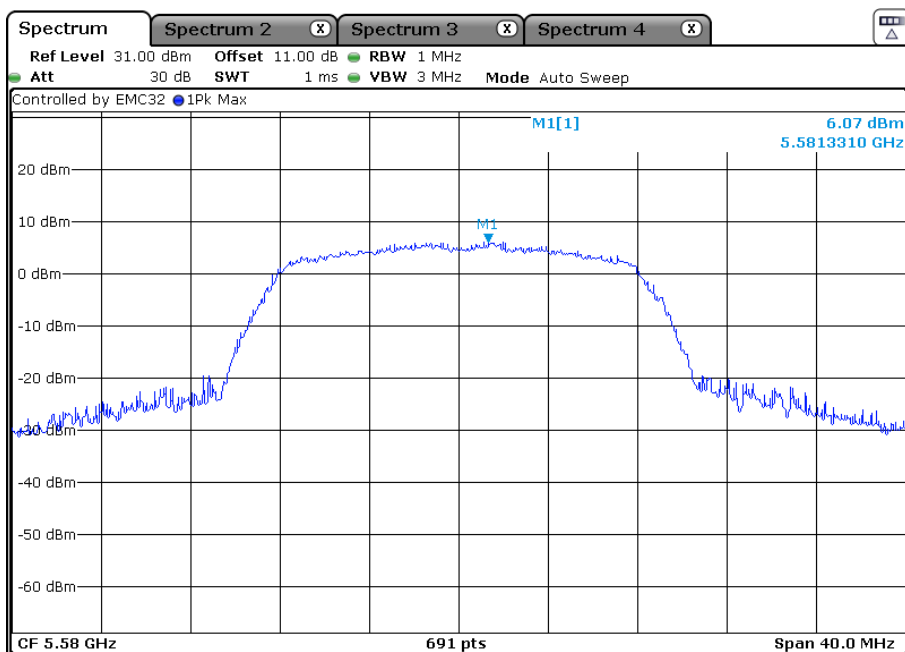
ANT2



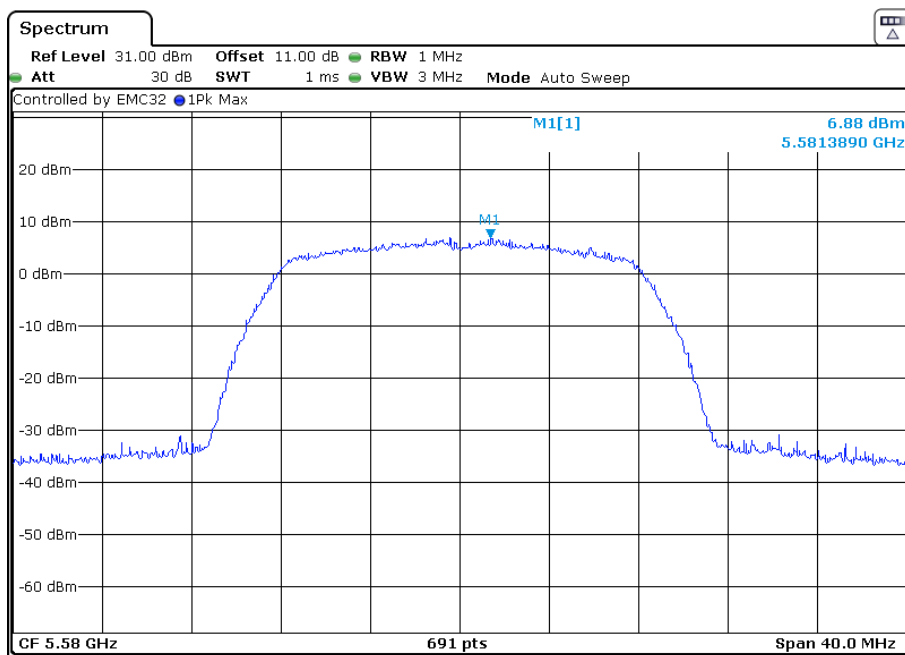
TEST REPORT

Channel 116: 5580 MHz:

ANT1



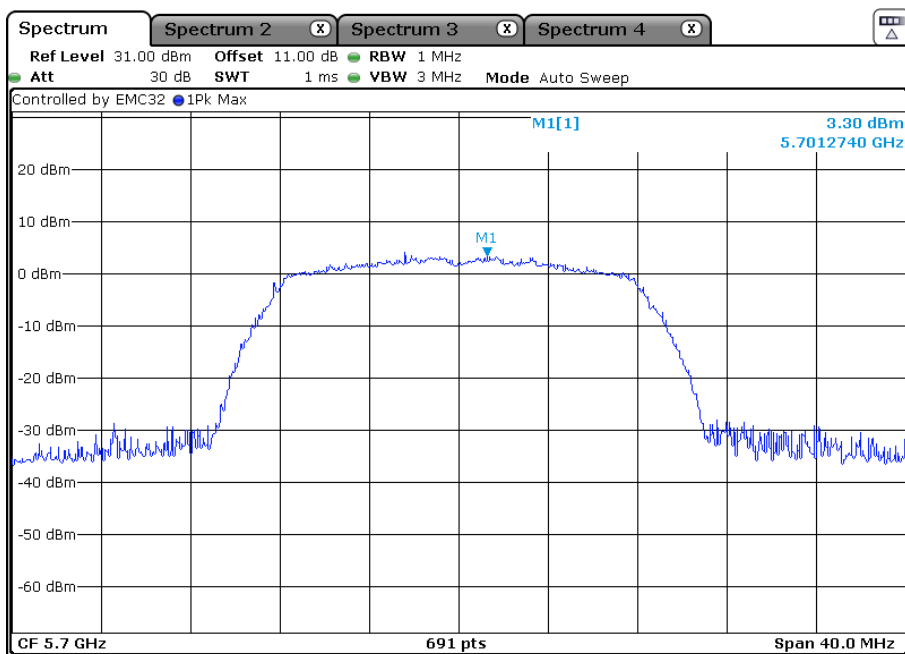
ANT2



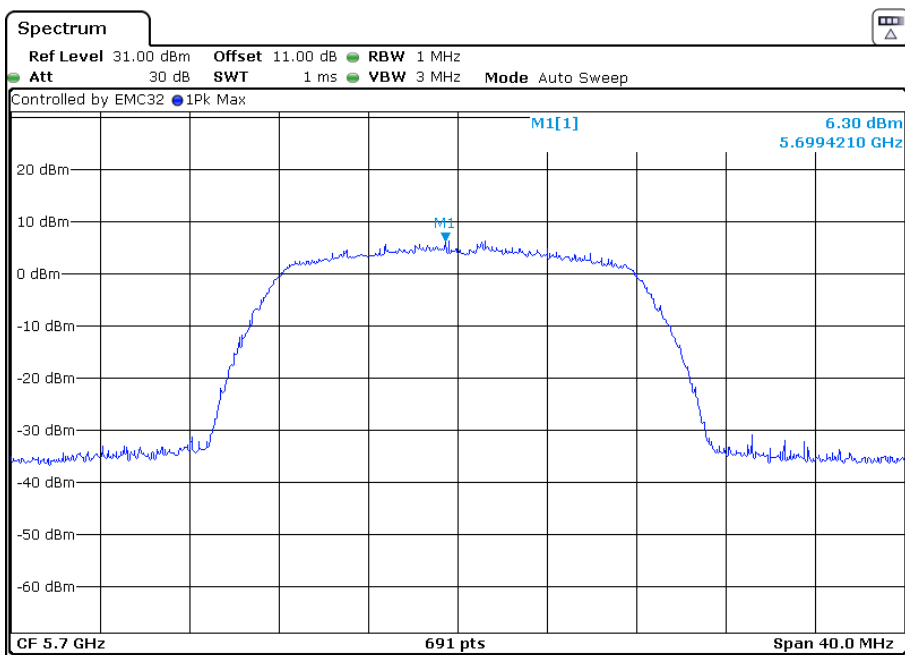
TEST REPORT

Channel 140: 5700 MHz:

ANT1



ANT2



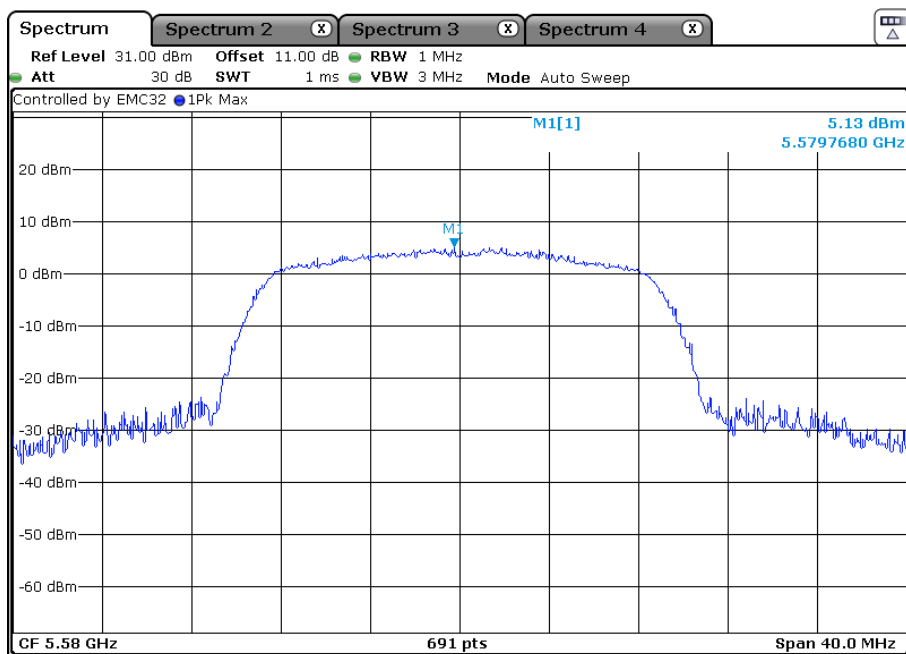
802.11an(HT 20)
Channel 100: 5500 MHz:
ANT1



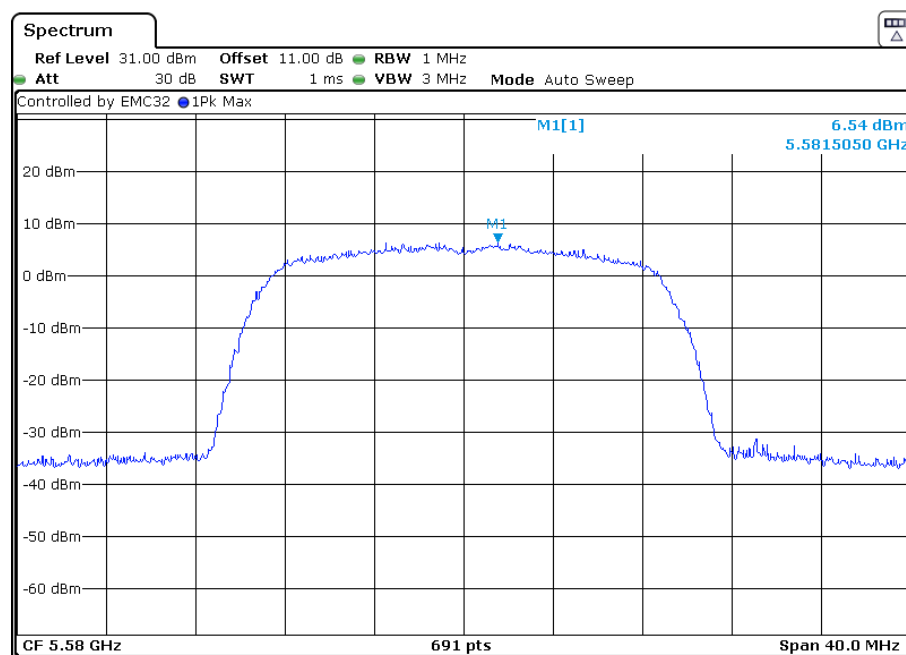
TEST REPORT

Channel 116: 5580 MHz:

ANT1



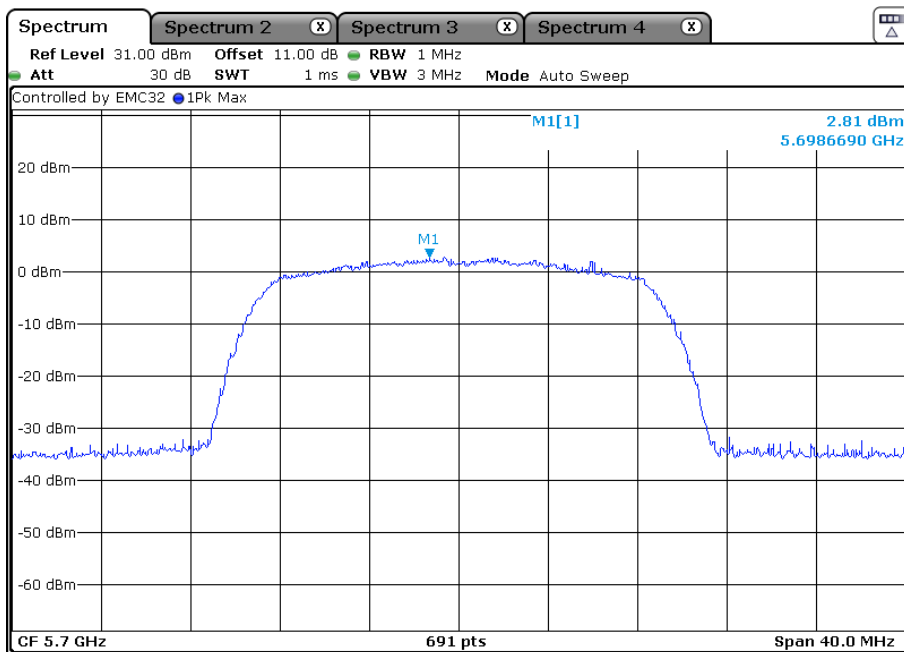
ANT2



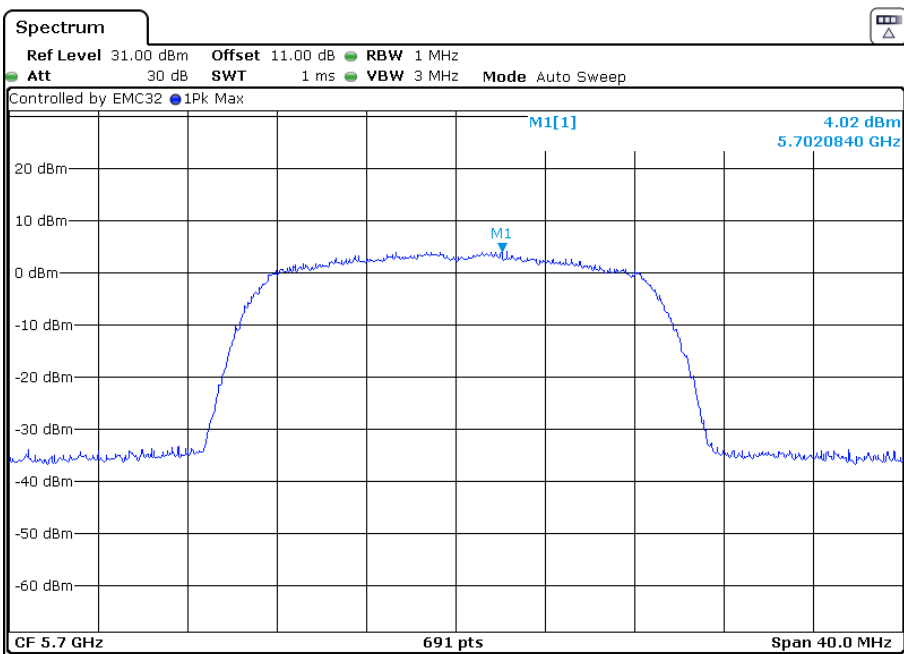
TEST REPORT

Channel 140: 5700 MHz:

ANT1



ANT2

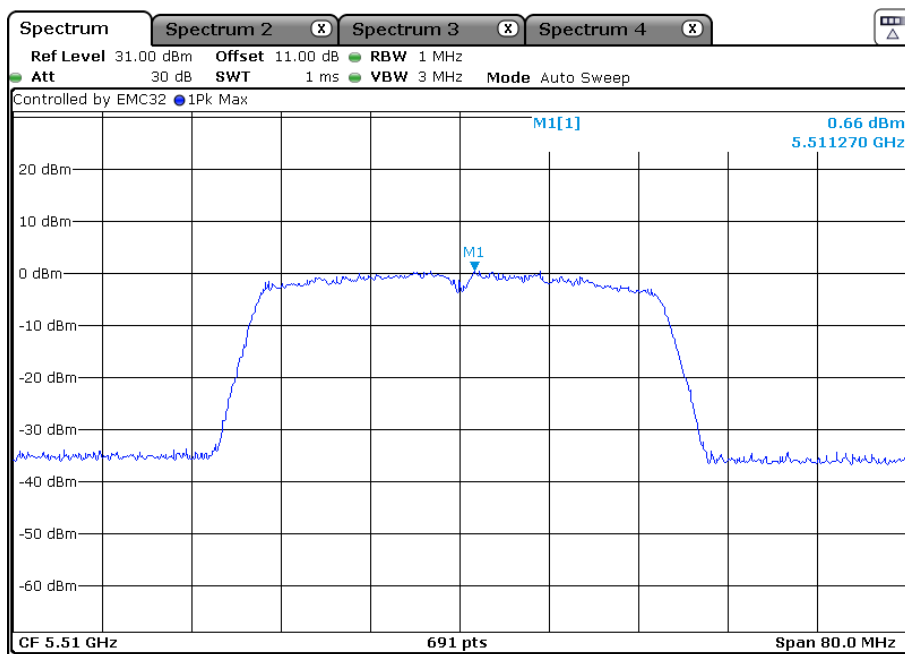


TEST REPORT

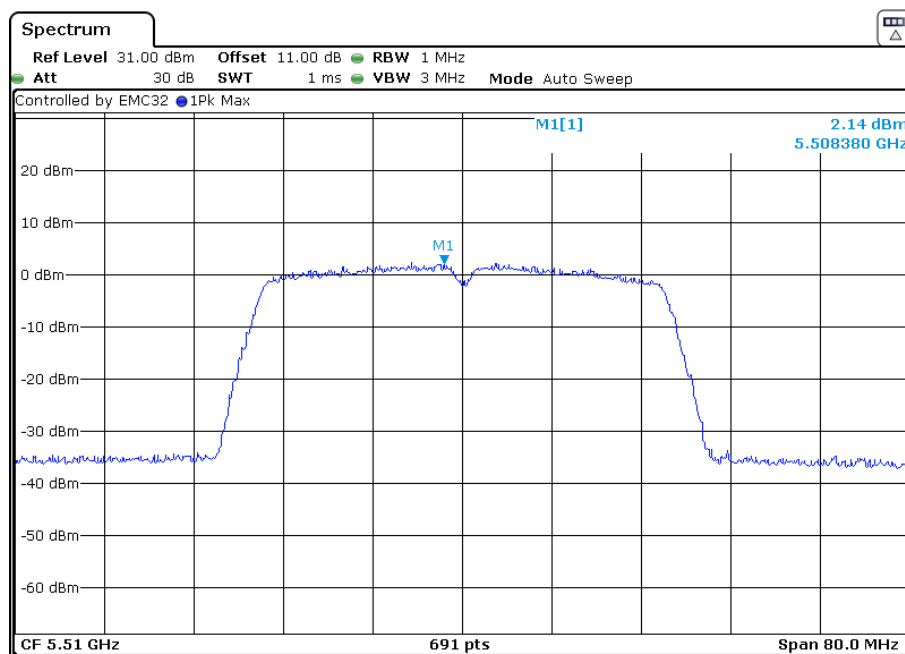
802.11an(HT 40)

Channel 102: 5510 MHz:

ANT1



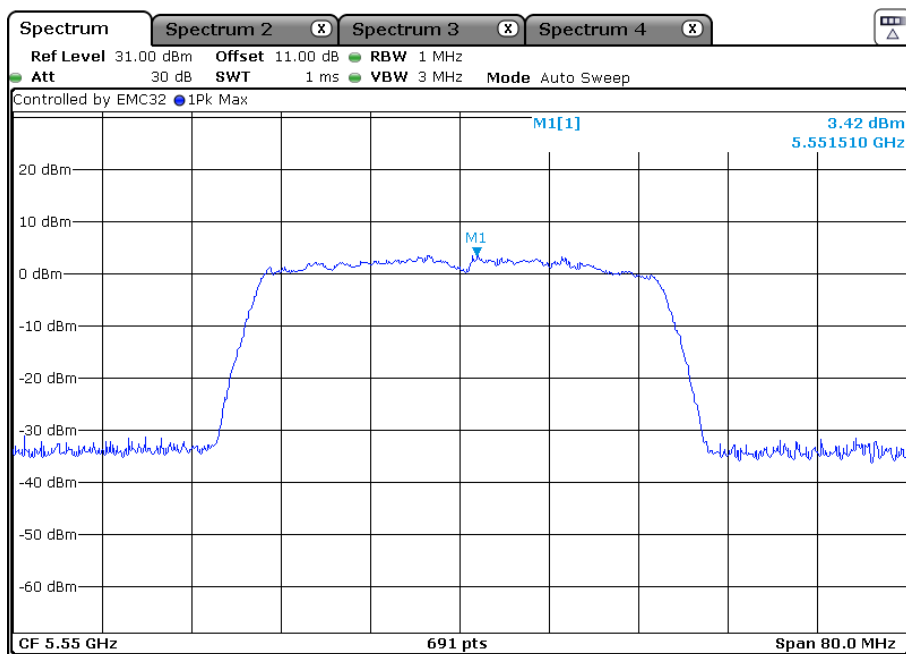
ANT2



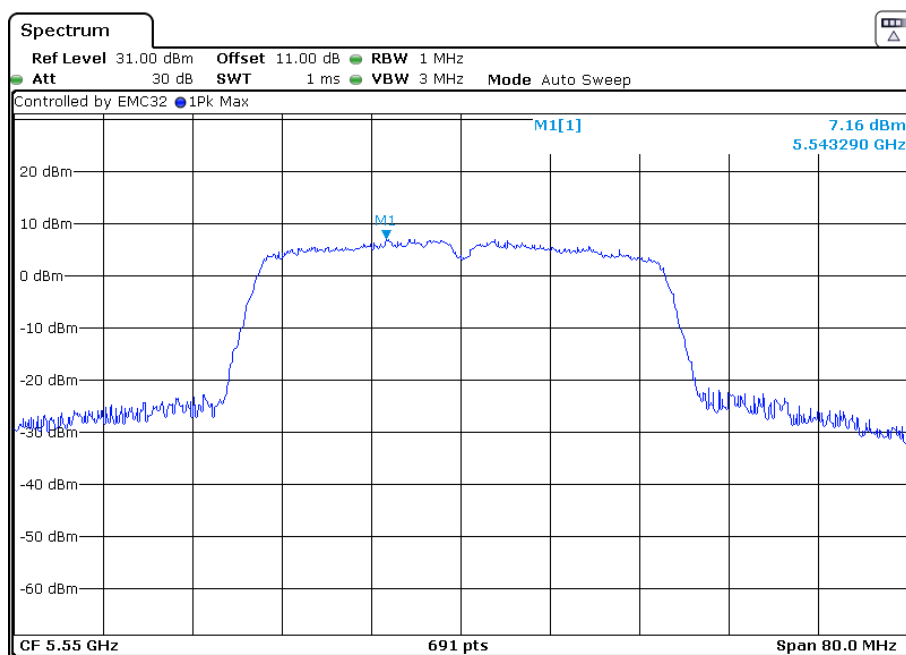
TEST REPORT

Channel 110: 5550 MHz:

ANT1



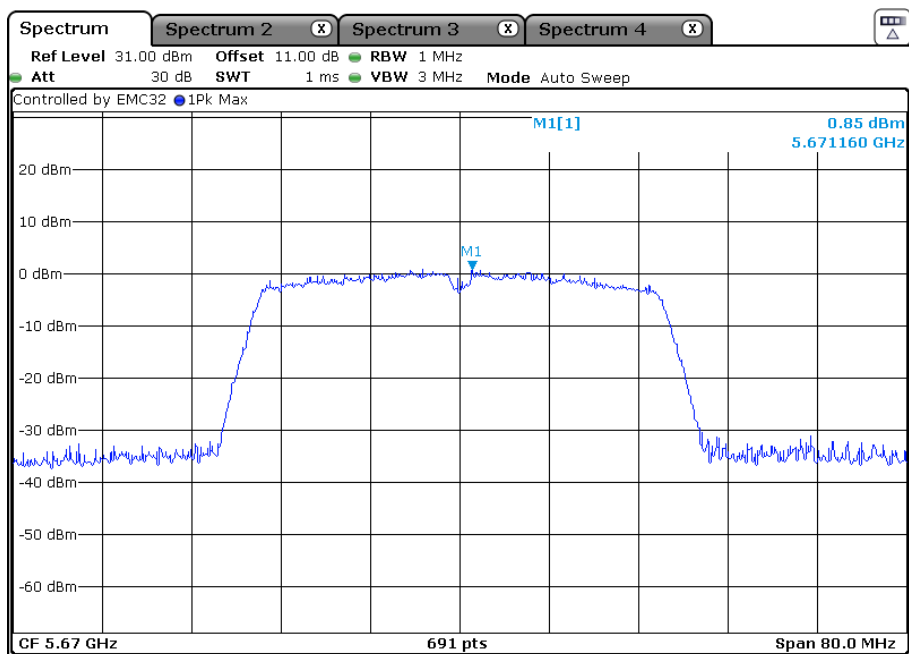
ANT2



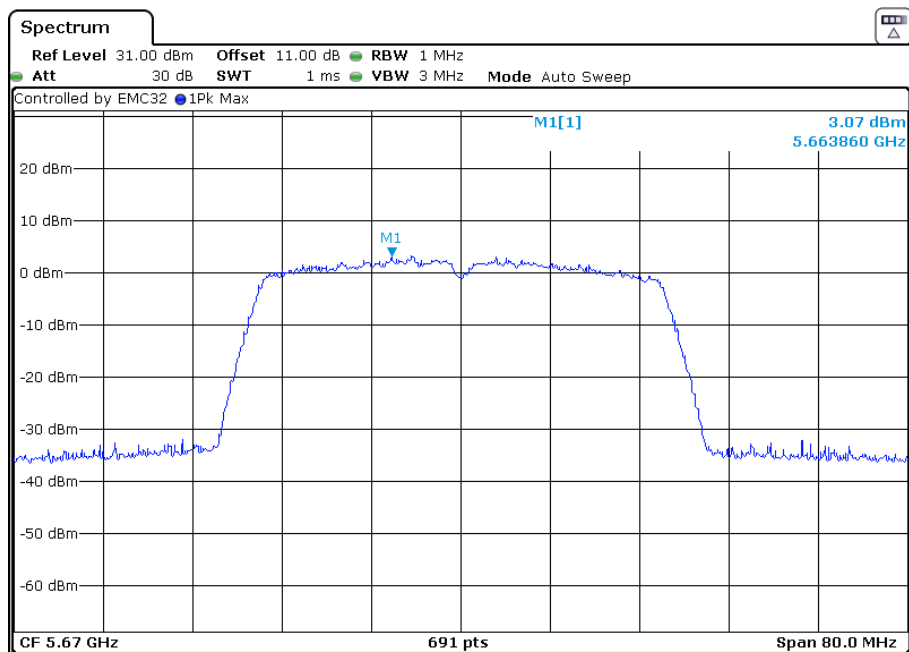
TEST REPORT

Channel 134: 5670 MHz:

ANT1



ANT2

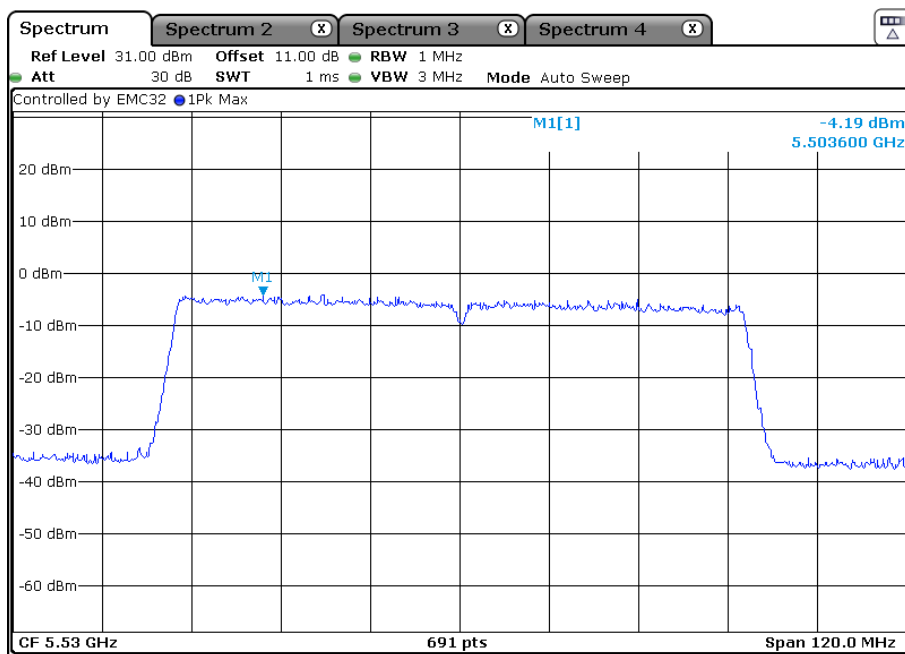


TEST REPORT

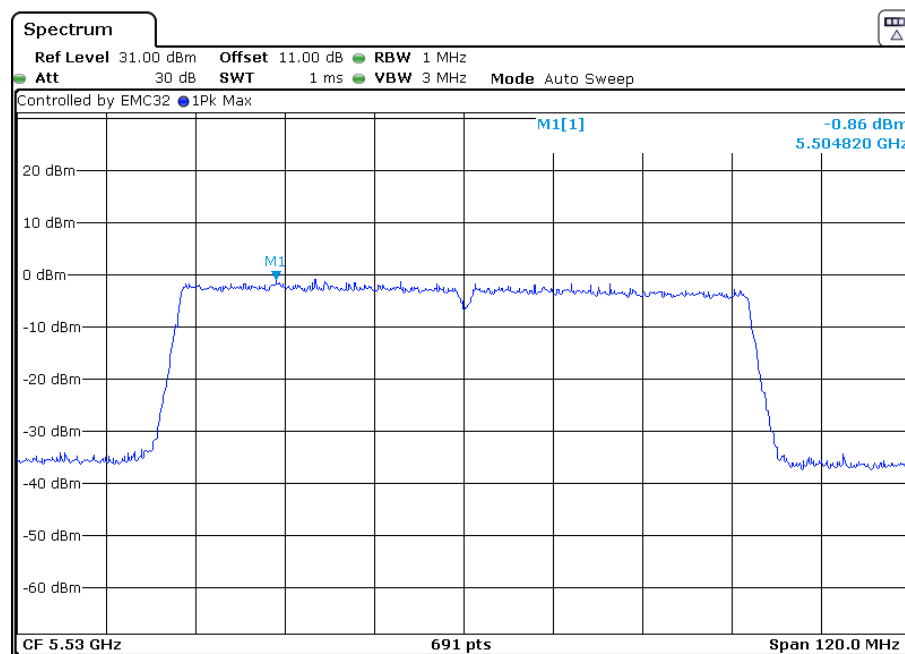
802.11ac(HT 80)

Channel 106: 5530 MHz:

ANT1



ANT2



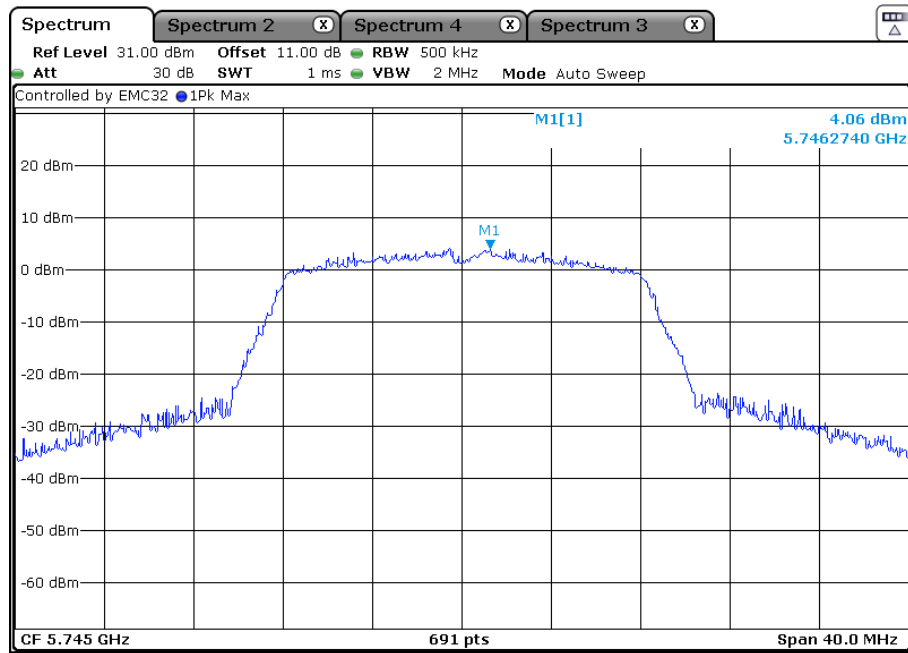
TEST REPORT

Band IV 5725 MHz to 5850 MHz

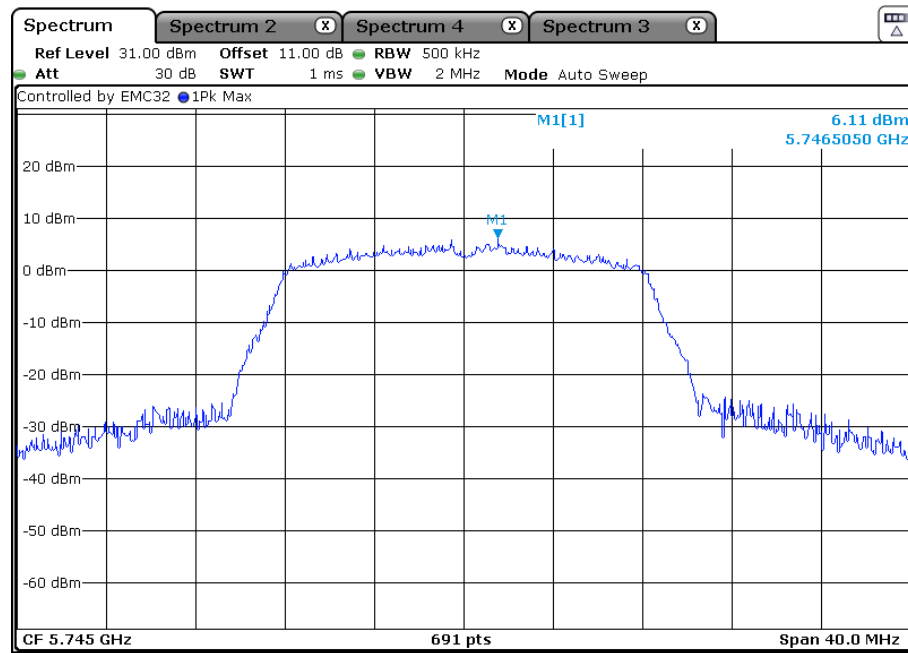
802.11a

Channel 149: 5745 MHz:

ANT1



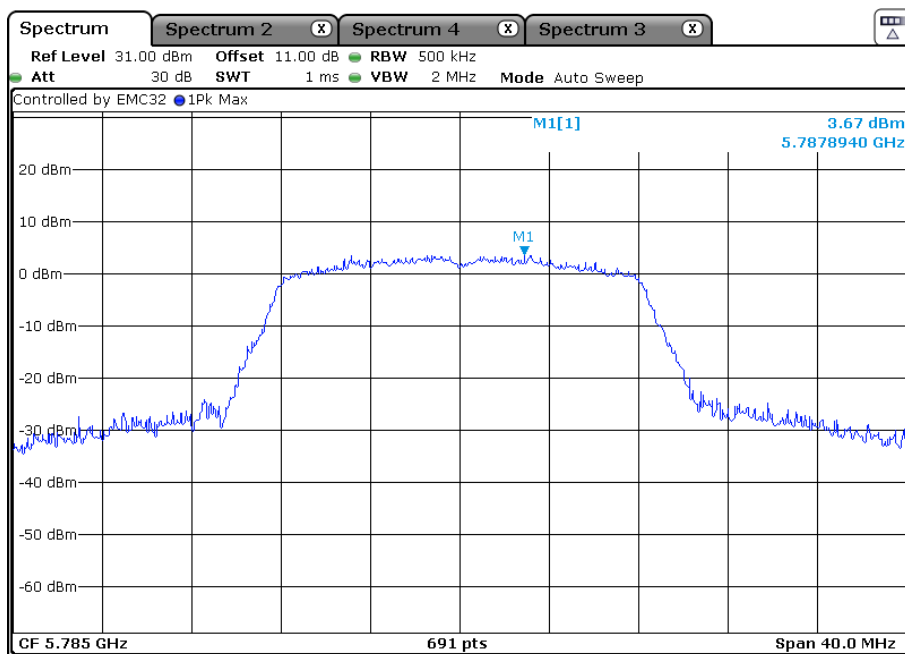
ANT2



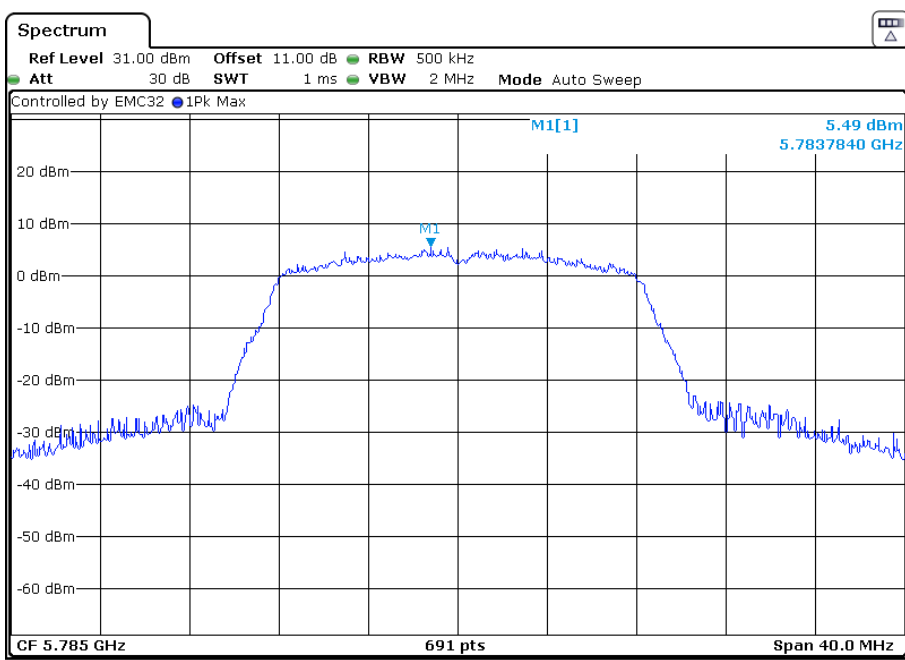
TEST REPORT

Channel 157: 5785 MHz:

ANT1



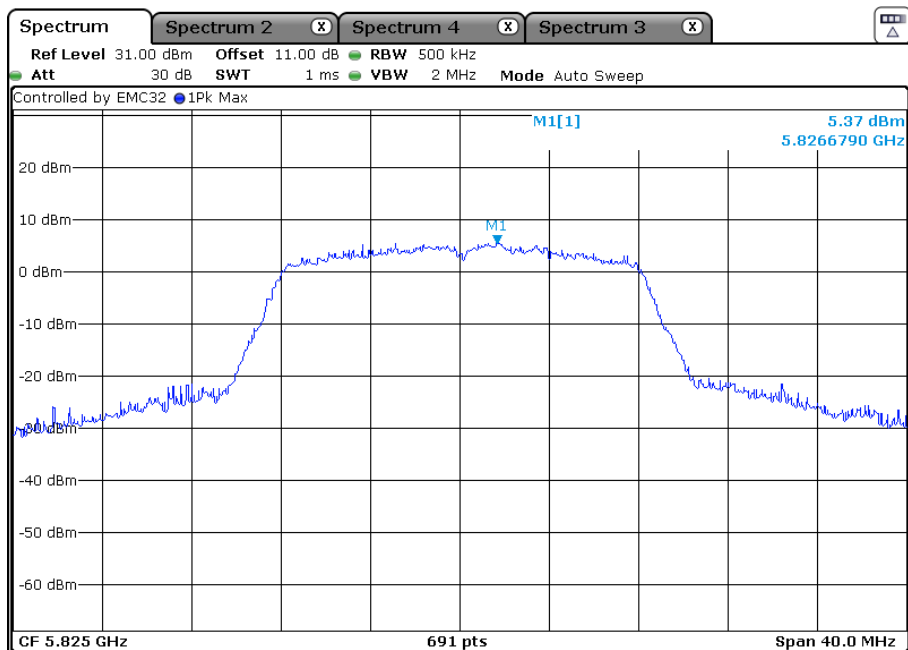
ANT2



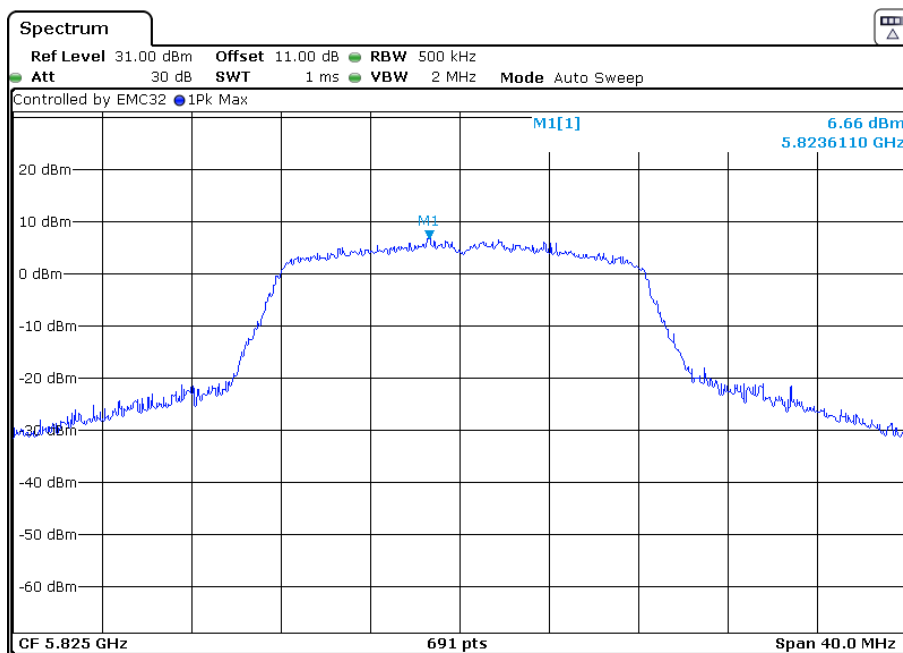
TEST REPORT

Channel 165: 5825 MHz:

ANT1



ANT2

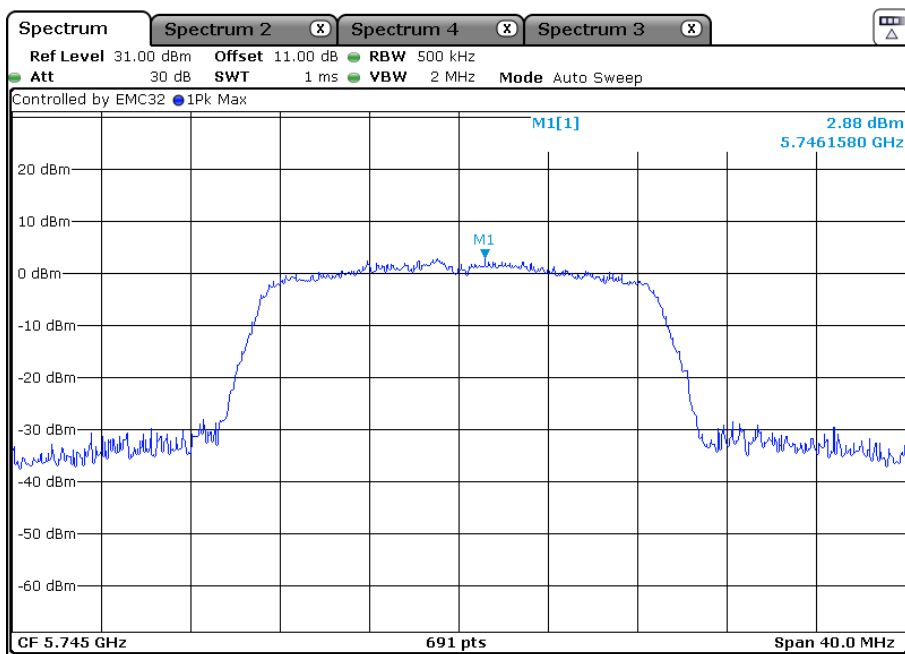


TEST REPORT

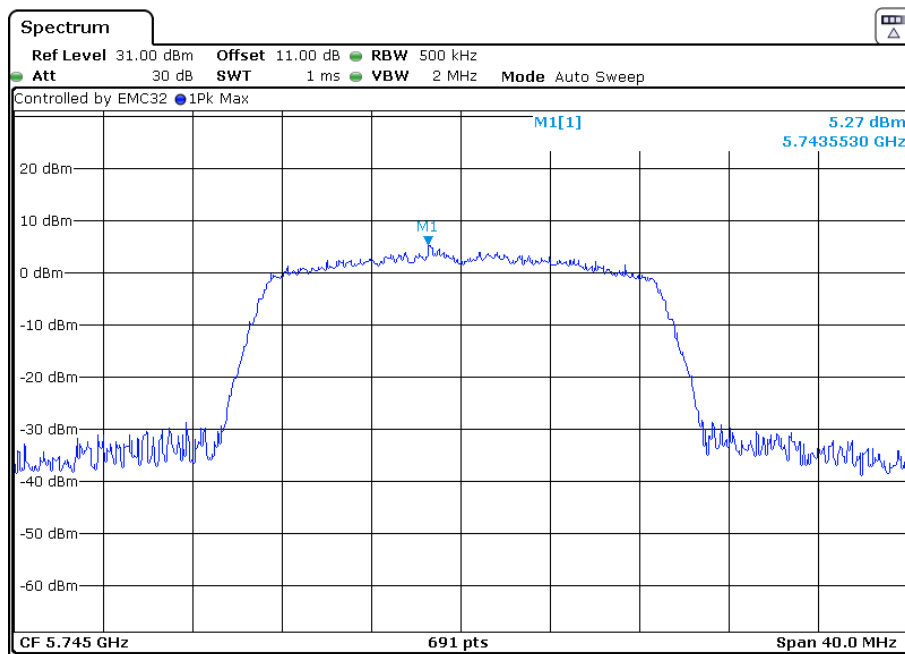
802.11an(HT 20)

Channel 149: 5745 MHz:

ANT1



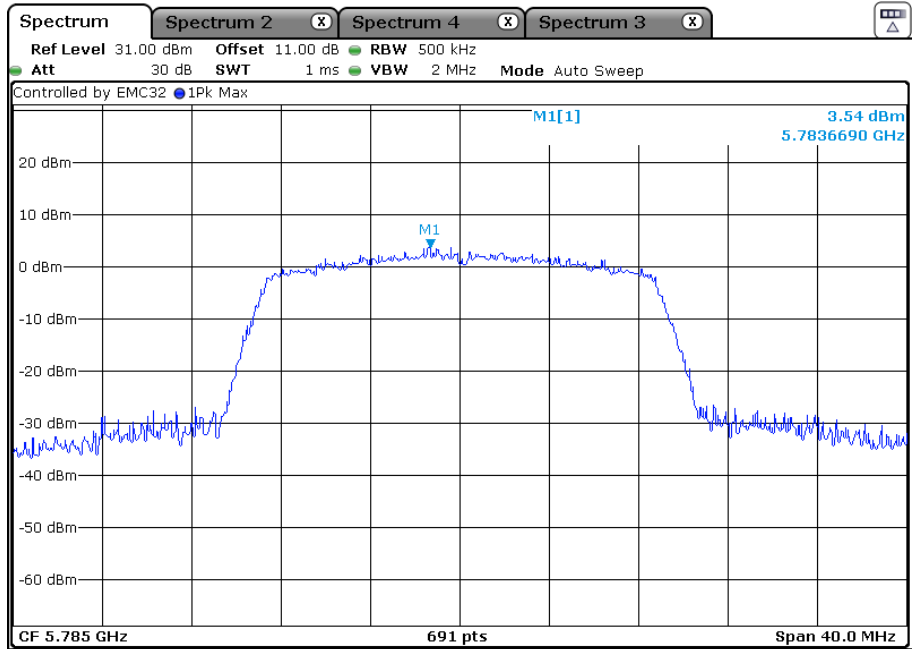
ANT2



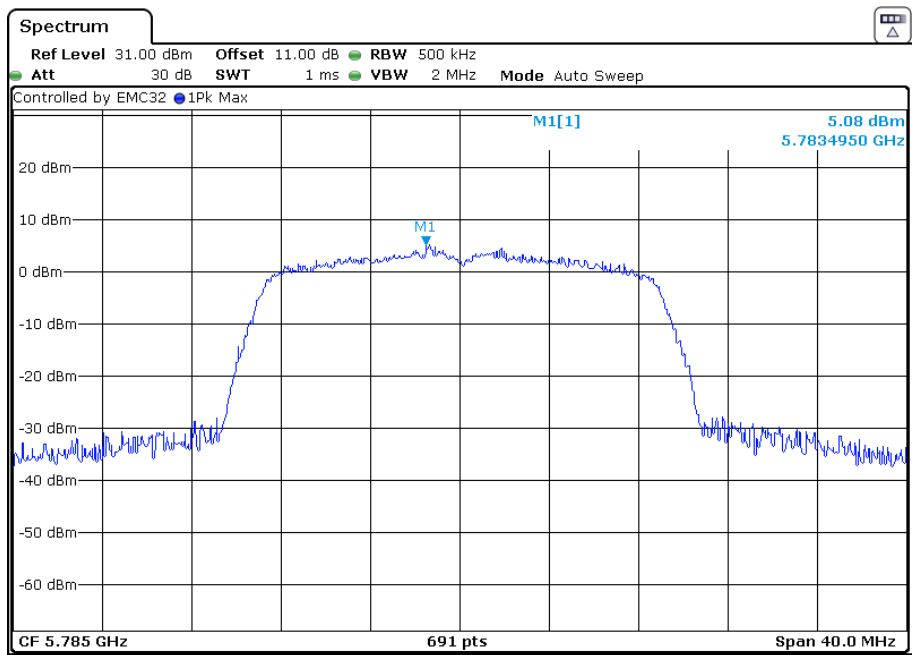
TEST REPORT

Channel 157: 5785 MHz:

ANT1



ANT2



Channel 165: 5825 MHz:

Spectrum **Spectrum 2** **Spectrum 4** **Spectrum 3**

Ref Level 31.00 dBm **Offset** 11.00 dB **RBW** 500 kHz
Att 30 dB **SWT** 1 ms **VBW** 2 MHz **Mode** Auto Sweep

Controlled by EMC32 ● 1Pk Max

M1[1] 4.59 dBm
5.8244790 GHz

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

CF 5.825 GHz 691 pts Span 40.0 MHz

Spectrum

Ref Level 31.00 dBm Offset 11.00 dB RBW 500 kHz
 Att 30 dB SWT 1 ms VBW 2 MHz Mode Auto Sweep

Controlled by EMC32 1Pk Max

6.17 dBm
5.8239000 GHz

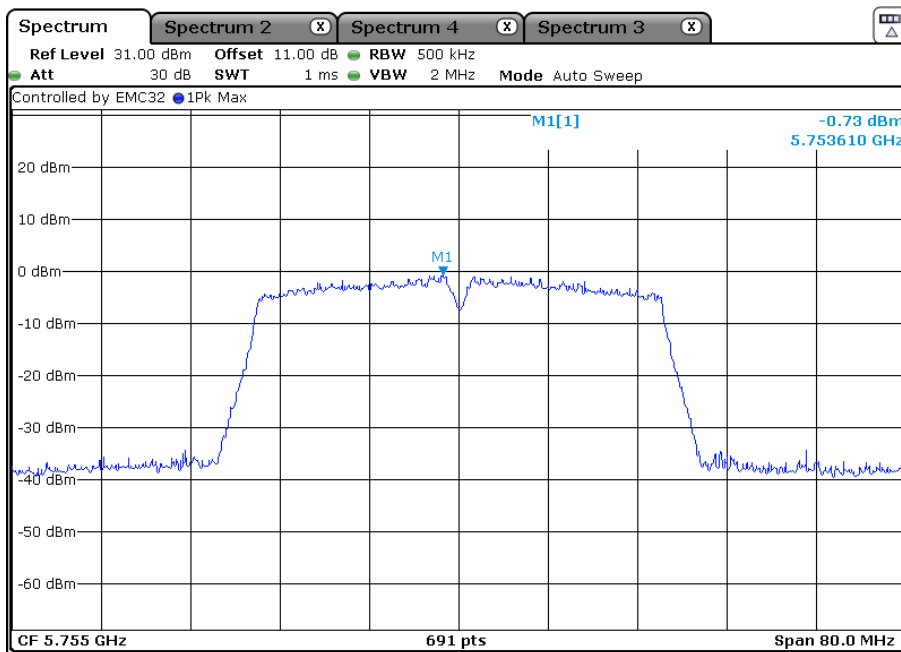
CF 5.825 GHz 691 pts Span 40.0 MHz

TEST REPORT

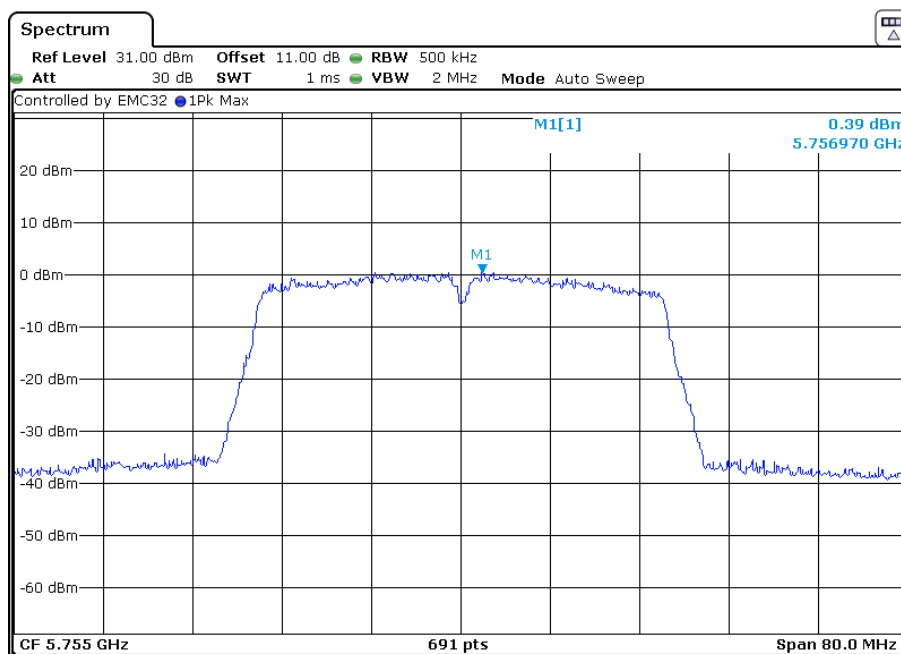
802.11an(HT 40)

Channel 151: 5755 MHz:

ANT1



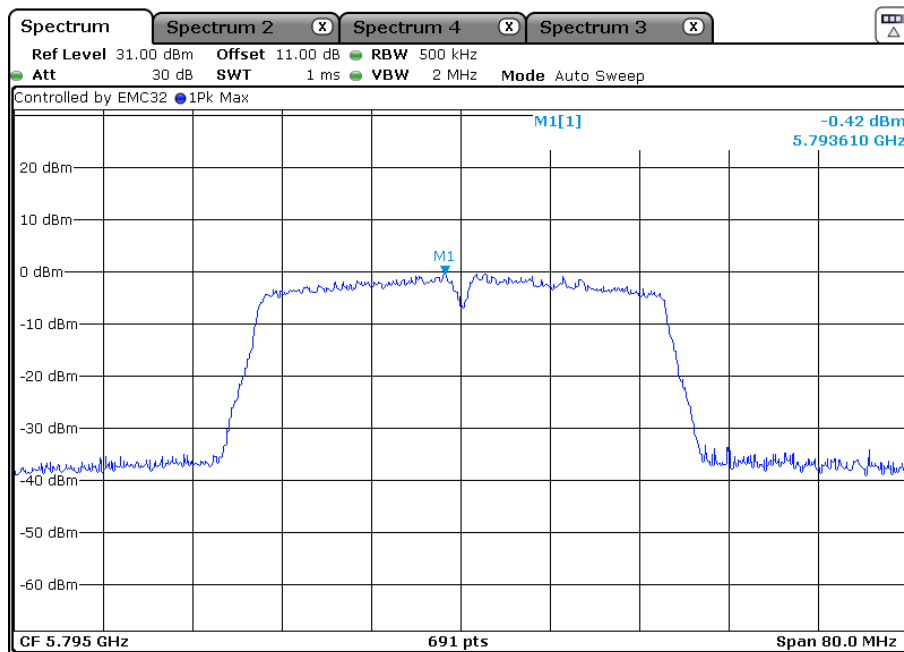
ANT2



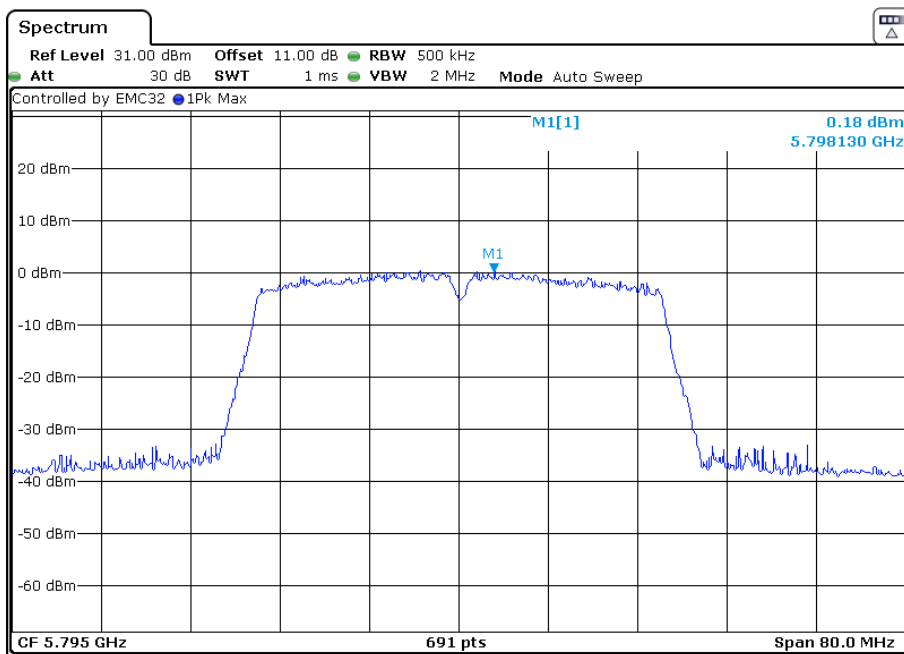
TEST REPORT

Channel 159: 5795 MHz:

ANT1



ANT2

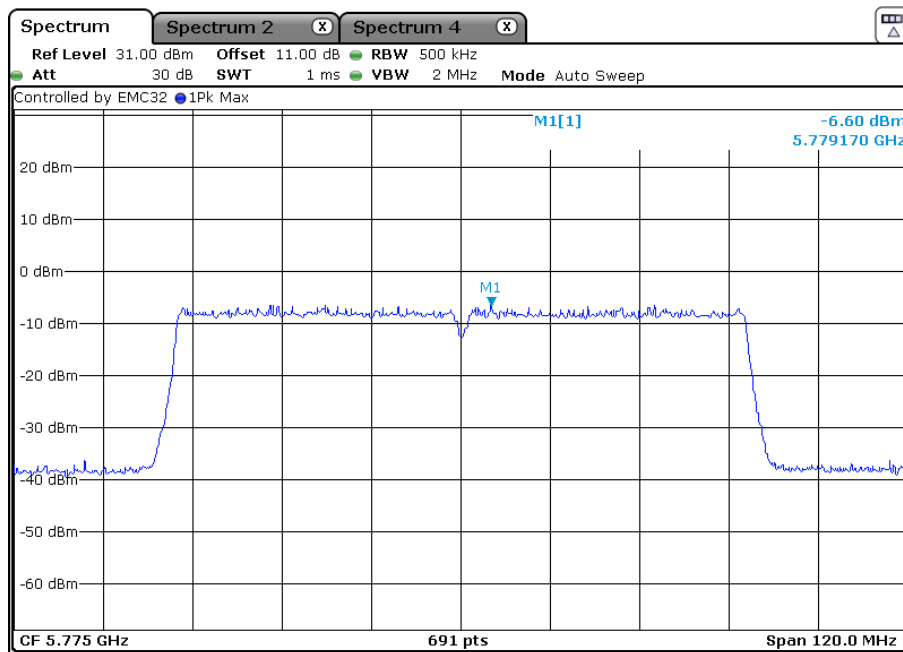


TEST REPORT

802.11ac(HT 80)

Channel 155: 5775 MHz:

ANT1



ANT2

