
FCC Test Report

Report No.: AGC08090200904FE06

FCC ID : 2AEVN07545GWIFI

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : RC AIRCRAFT

BRAND NAME : N/A

MODEL NAME : W PRO, X-PACK PRO, X-PACK GPS, X-PACK 16, X-PACK 17, X-PACK 18, X-PACK 19, X-PACK 20, W, W PRO E, W PRO S, W8, W8 PRO, W9, W9 PRO, W11, W12, W13, W15, W16, W17, W18, W19, W20, AO11, AO12, AO13, AO15, AO16, AO17, AO18, AO19, AO30, AO31, AO32, AO33, AO35, AO36, AO37, AO38, AO39

APPLICANT : GUANGDONG ATTOP TECHNOLOGY CO.,LTD.

DATE OF ISSUE : Nov. 04, 2020

STANDARD(S) : FCC Part 15.407

TEST PROCEDURE(S) : KDB 789033 D02 v02r01

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 04, 2020	Valid	Initial Release

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “RC AIRCRAFT”. It is designed by way of utilizing the OFDM technology to achieve the system operation. It is an outdoor access point device.

A major technical description of EUT is described as following

Operation Frequency	5745 MHz~5825MHz
Output Power(5G WIFI)	IEEE 802.11a20:12.19dBm; IEEE 802.11n20:11.75dBm; IEEE 802.11n40:10.90dBm; IEEE 802.11ac20:12.00dBm; IEEE 802.11ac40:10.84dBm; IEEE 802.11ac80:10.28dBm
Modulation(5G WIFI)	802.11a/n:64-QAM, 16-QAM, QPSK, BPSK 802.11ac:256-QAM, 64-QAM, 16-QAM, QPSK, BPSK
Number of channels	8
Hardware Version	1950-V12
Software Version	V372
Antenna Designation	Internal Antenna
Number of transmit chain	2(802.11a/n/ac all used two antennas,but 802.11a support SISO and 802.11n/ac support MIMO)
Directional gain	All transmit signals are completely uncorrelated with each other
Antenna Gain	2dBi
Power Supply	DC 11.4V by battery or DC 5V by adapter

Note: 1.The maximum antenna gain is 2dBi, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So: Directional gain = $G_{ANT} + \text{Array Gain} = 2\text{dBi} < 6\text{dBi}$

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2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
5725 GHz~5850GHz	149	5745 MHz
	151	5755 MHz
	153	5765 MHz
	155	5775 MHz
	157	5785 MHz
	159	5795 MHz
	161	5805 MHz
	165	5825MHz

Note: For 20MHZ bandwidth system use Channel149,153,157,161,165; For 40MHZ bandwidth system use Channel151,159;For 80MHZ bandwidth system use Channel155;

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2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AEVN07545GWIFI** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20	149, 153, 157, 161, 165	149, 157, 165	OFDM	6Mbps/MCS0
802.11n40	151, 159	151, 159	OFDM	MCS0
802.11ac80	155	155	OFDM	MCS0

Note:

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is the SecureCRTSecureFX_HH_x86_7.0.0.326 which can set the EUT into the individual test modes.

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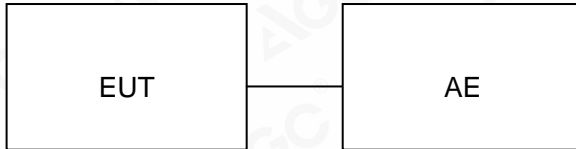
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	RC AIRCRAFT	W PRO	2AEVN07545GWIFI	EUT
3	Adapter	N/A	N/A	AE
4	Charger line	N/A	N/A	Market with EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	Line Conduction Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Power sensor	Aglient	U2021XA	MY54110007	Jun. 08, 2020	Jun. 07, 2021
2.4GHz Fliter	Micro-tronics	087	N/A	Feb. 26, 2020	Feb. 25, 2021
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

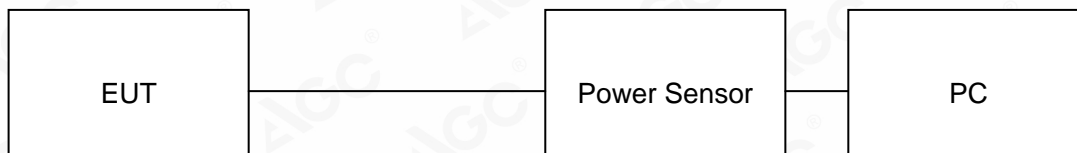
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION					
Frequency (MHz)	Average Power Chain 1(dBm)	Average Power Chain 2(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5745	12.19	12.01	N/A	30	Pass
5785	10.79	10.64	N/A	30	Pass
5825	10.59	10.43	N/A	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION					
Frequency (MHz)	Average Power Chain 1(dBm)	Average Power Chain 2(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5745	8.63	8.52	11.59	30	Pass
5785	8.51	8.47	11.50	30	Pass
5825	8.78	8.69	11.75	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION					
Frequency (MHz)	Average Power Chain 1(dBm)	Average Power Chain 2(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5755	7.92	7.85	10.90	30	Pass
5795	7.24	7.16	10.21	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20 MODULATION					
Frequency (MHz)	Average Power Chain 1(dBm)	Average Power Chain 2(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5745	9.00	8.92	11.97	30	Pass
5785	9.01	8.97	12.00	30	Pass
5825	8.72	8.63	11.69	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11AC40 MODULATION					
Frequency (MHz)	Average Power Chain 1(dBm)	Average Power Chain 2(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5755	7.75	7.68	10.73	30	Pass
5795	7.87	7.79	10.84	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION					
Frequency (MHz)	Average Power Chain 1(dBm)	Average Power Chain 2(dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5775	7.29	7.24	10.28	30	Pass

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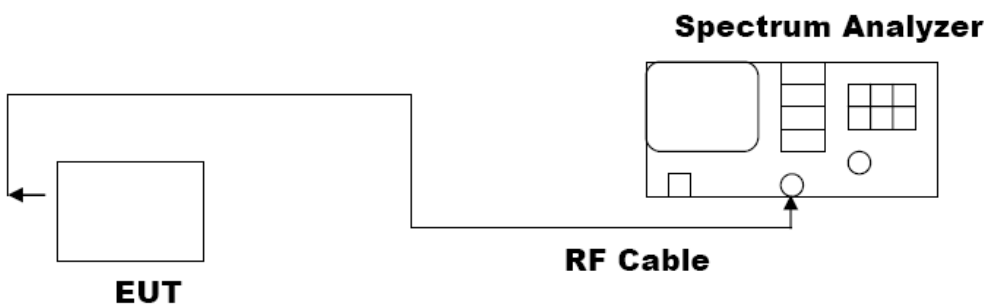
8. 6dB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
	Frequency (MHz)	-6dB Bandwidth	
>500KHZ	5745MHz	16.34	PASS
	5785MHz	16.35	PASS
	5825MHz	16.37	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
	Frequency (MHz)	-6dB Bandwidth	
>500KHZ	5745MHz	17.59	PASS
	5785MHz	17.55	PASS
	5825MHz	17.56	PASS
	5755MHz	35.26	PASS
	5795MHz	33.88	PASS

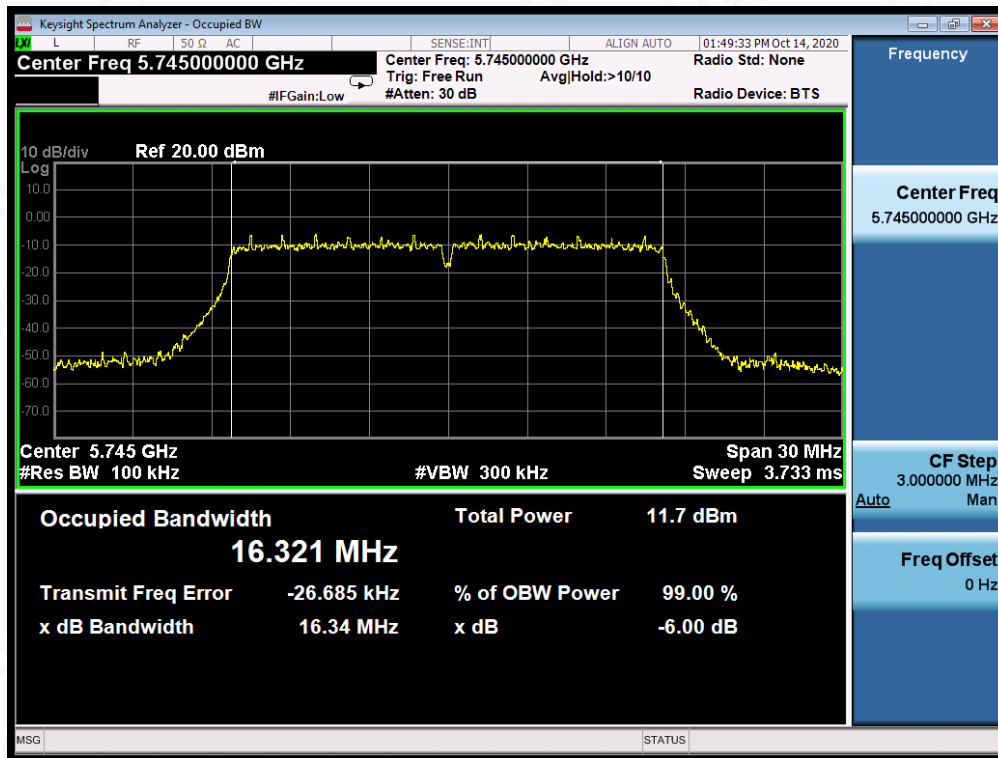
LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
	Frequency (MHz)	-6dB Bandwidth	
>500KHZ	5745MHz	17.55	PASS
	5785MHz	17.54	PASS
	5825MHz	17.55	PASS
	5755MHz	33.70	PASS
	5795MHz	35.78	PASS
	5775MHz	71.36	PASS

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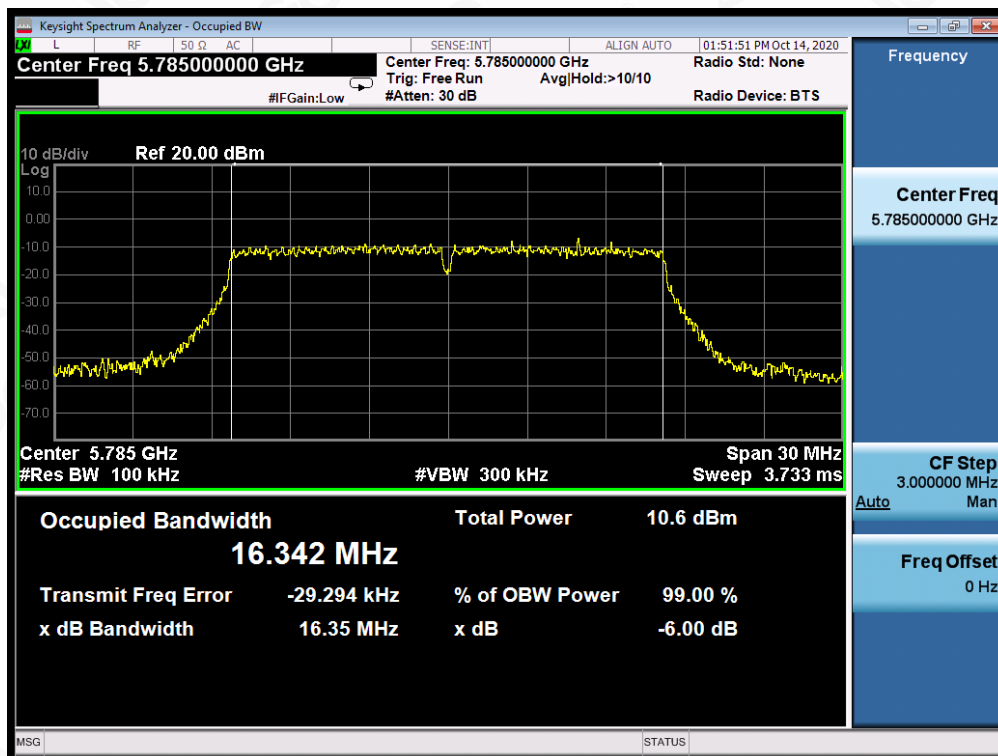


802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5785MHz

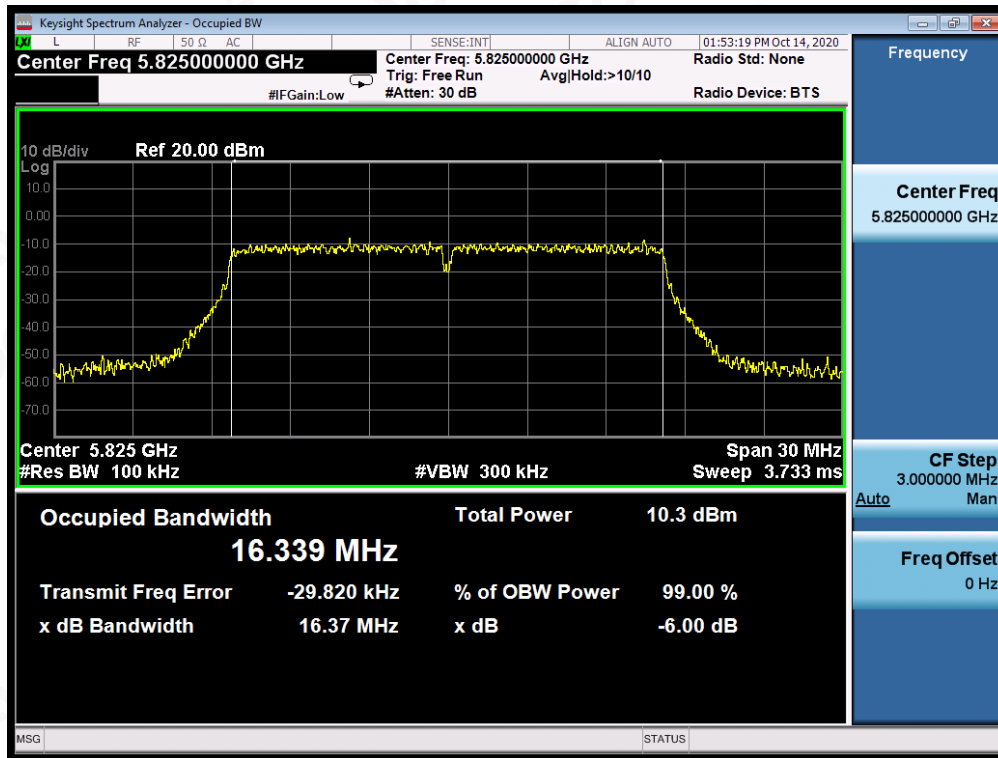


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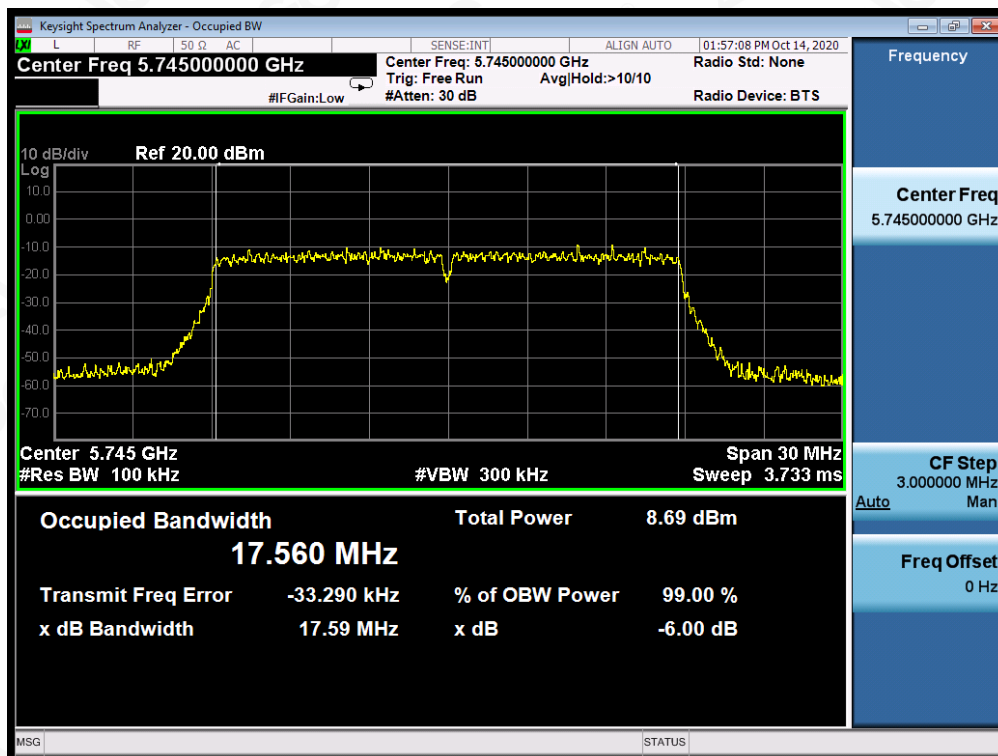


TEST PLOT OF BANDWIDTH FOR 5825MHZ



802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHZ

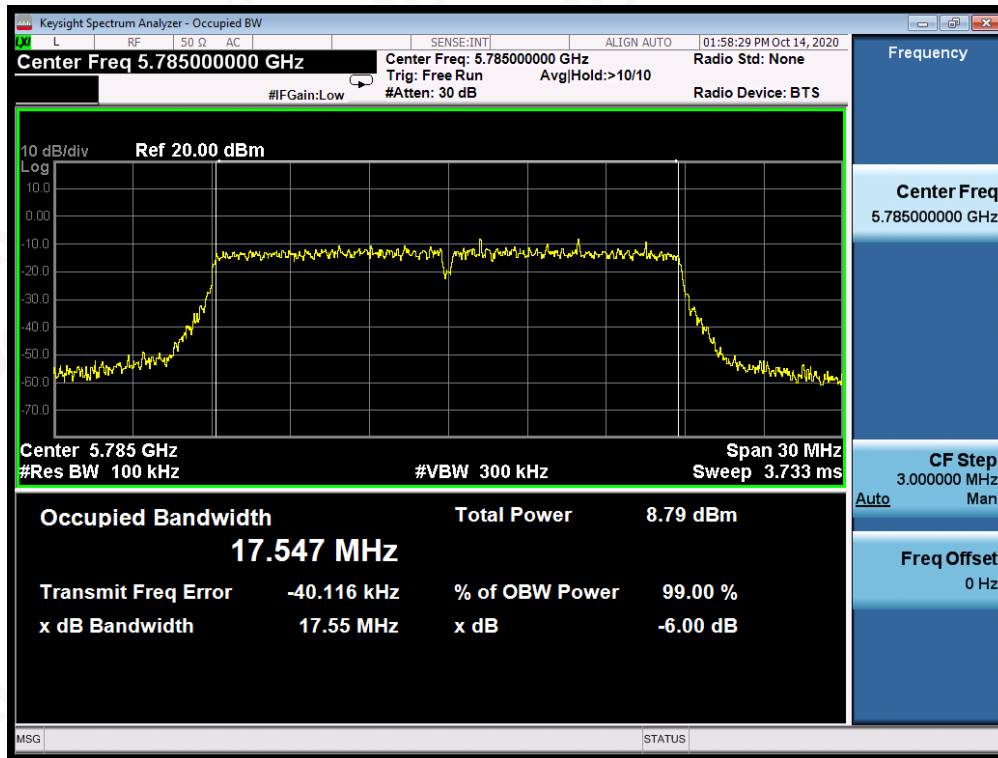


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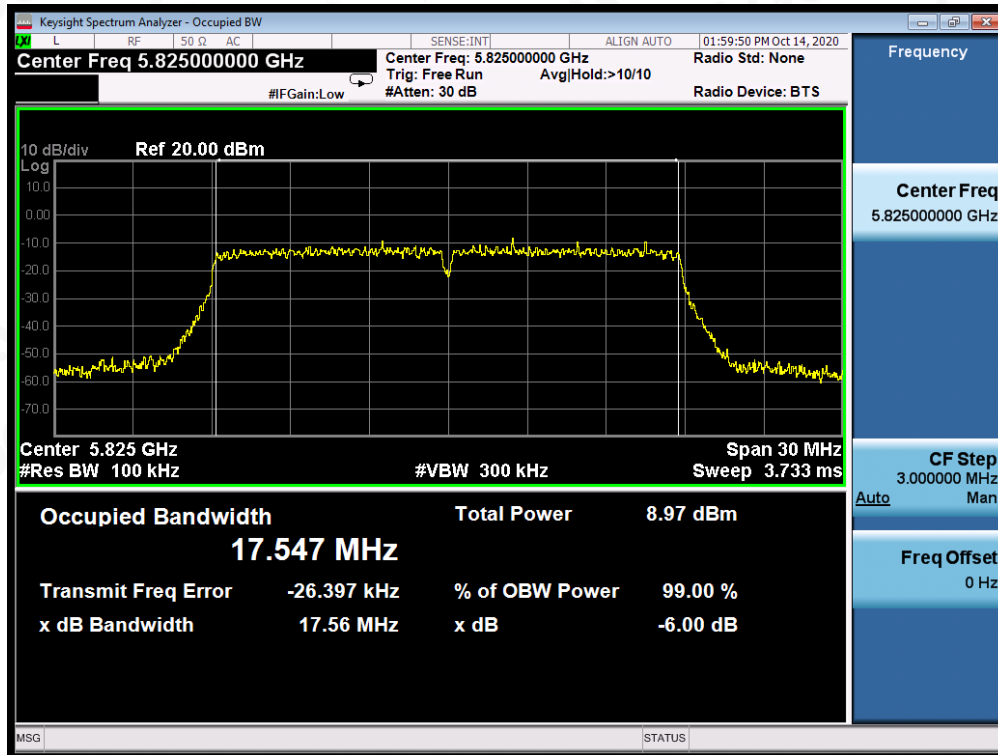
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TEST PLOT OF BANDWIDTH FOR 5785MHz



TEST PLOT OF BANDWIDTH FOR 5825MHz

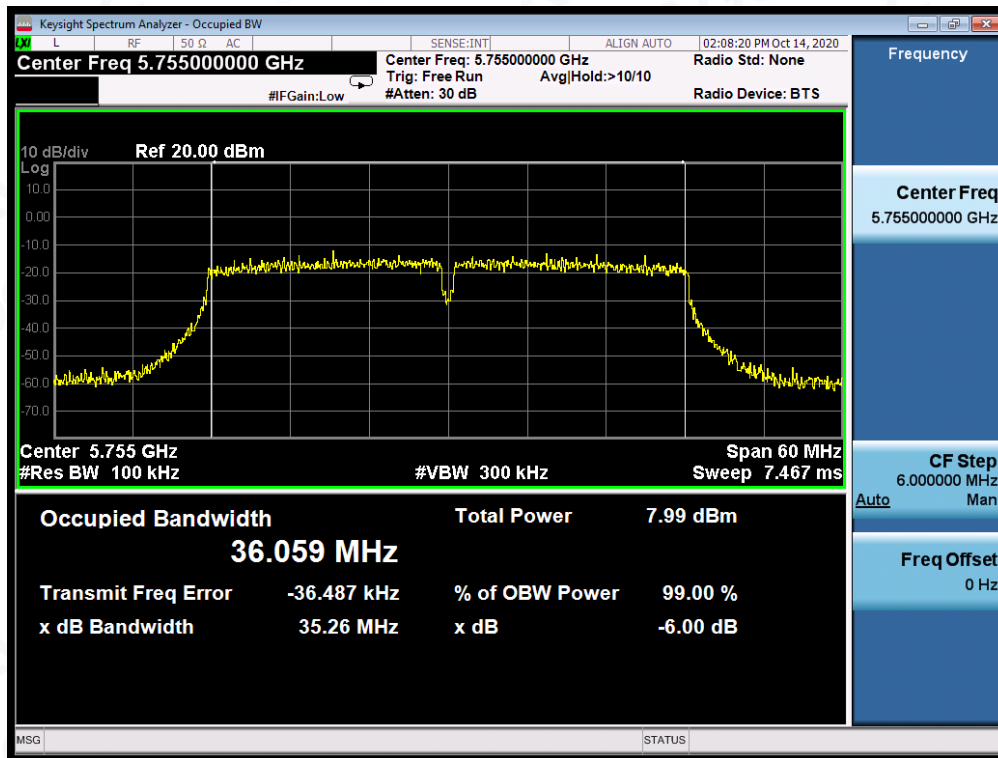


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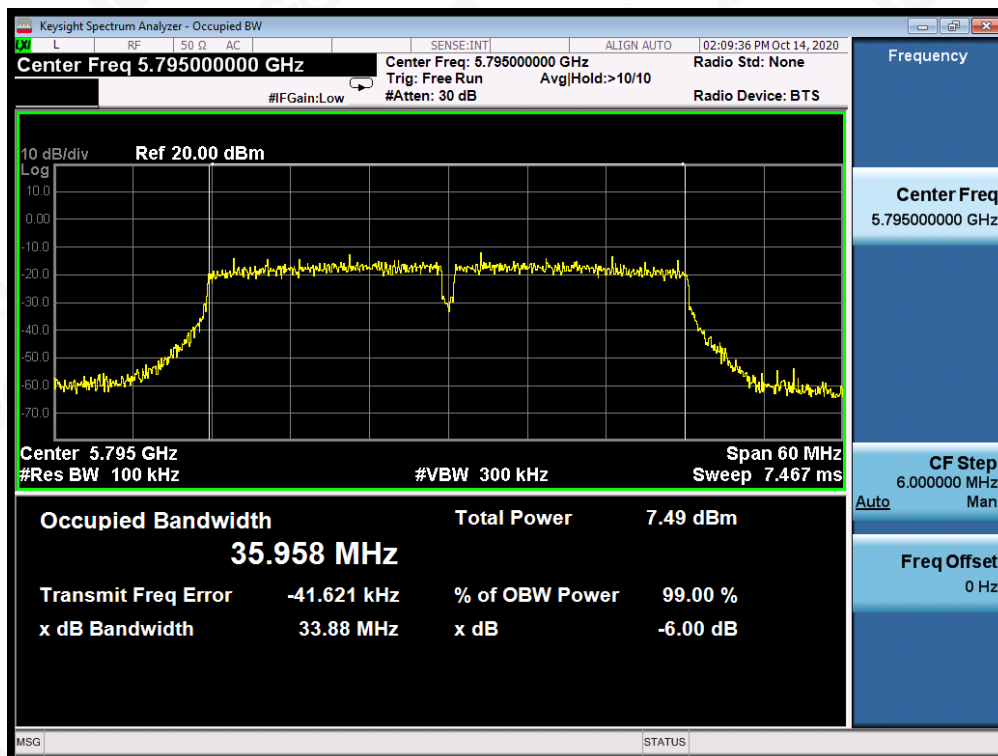


802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHz



TEST PLOT OF BANDWIDTH FOR 5795MHz



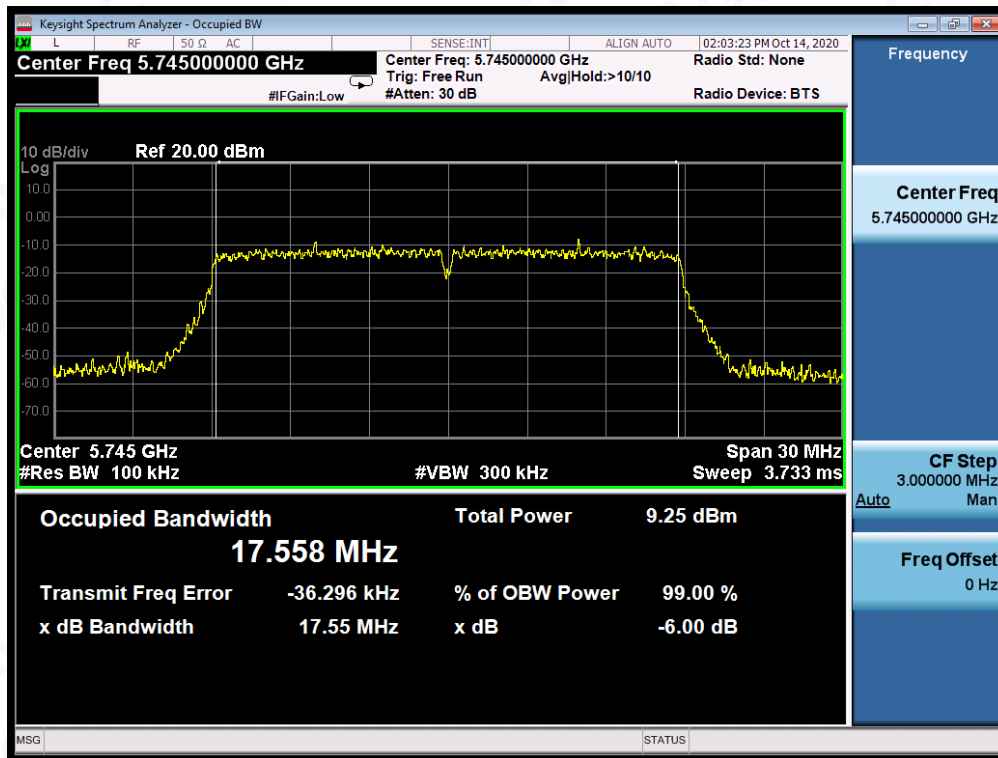
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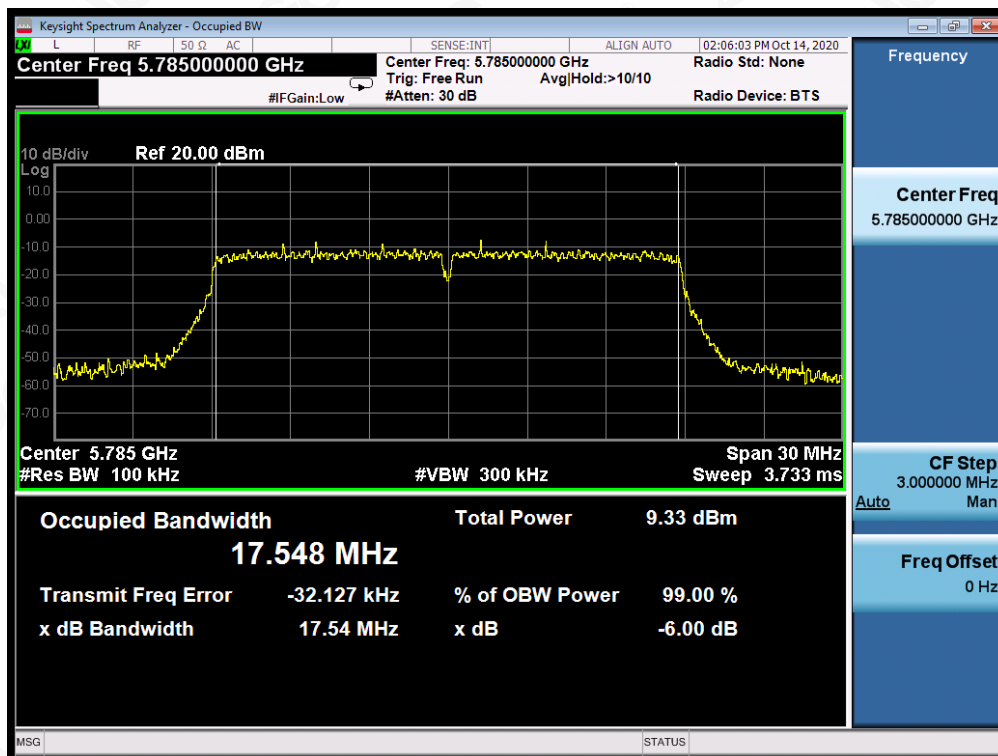


802.11ac20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHZ



TEST PLOT OF BANDWIDTH FOR 5785MHZ

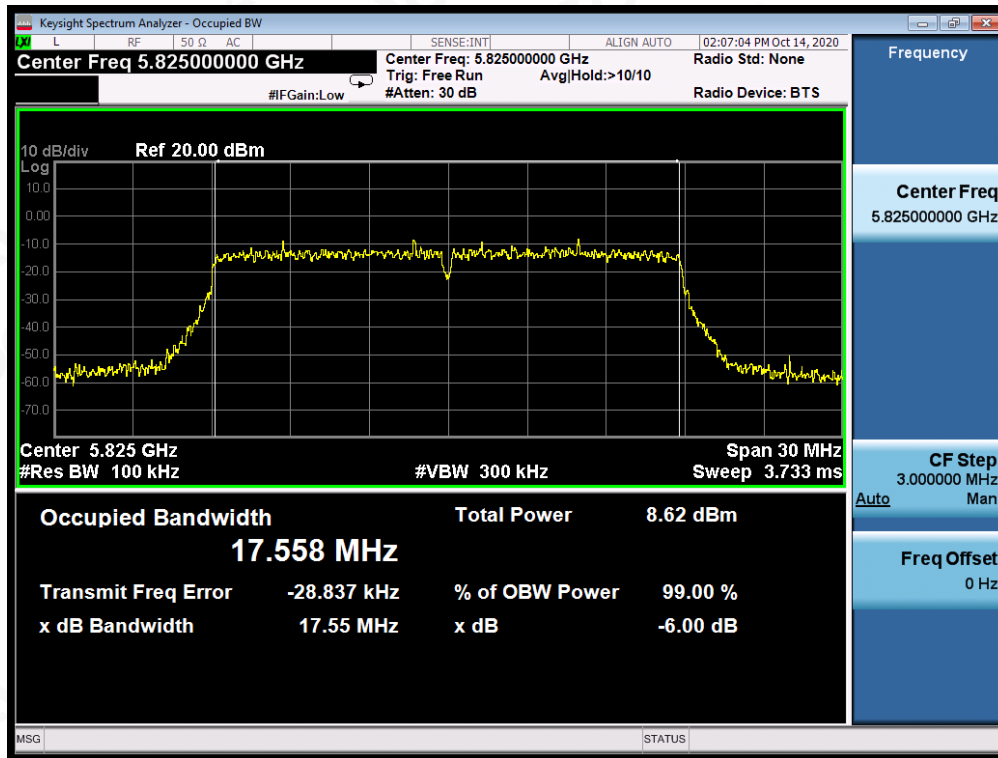


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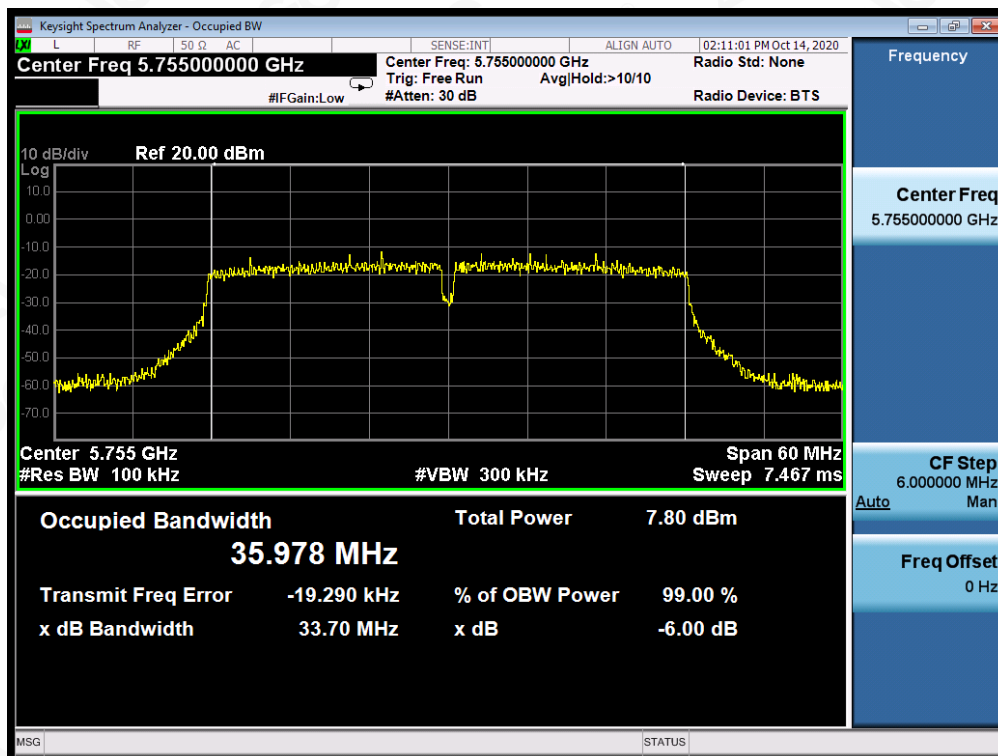


TEST PLOT OF BANDWIDTH FOR 5825MHZ



802.11ac40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHZ

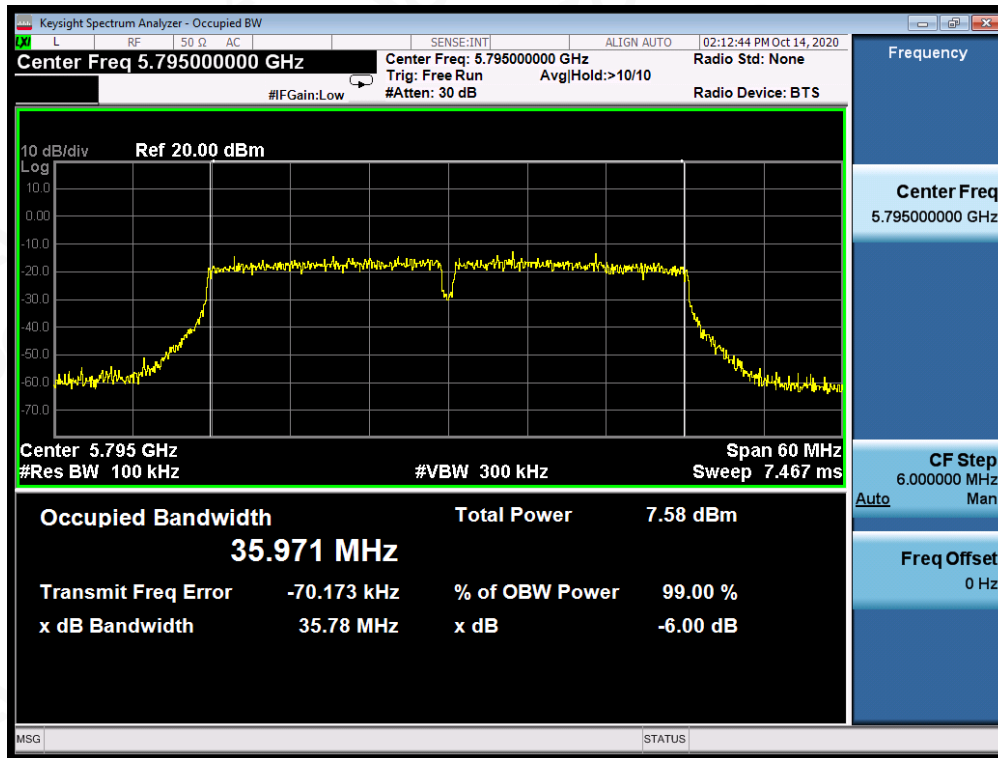


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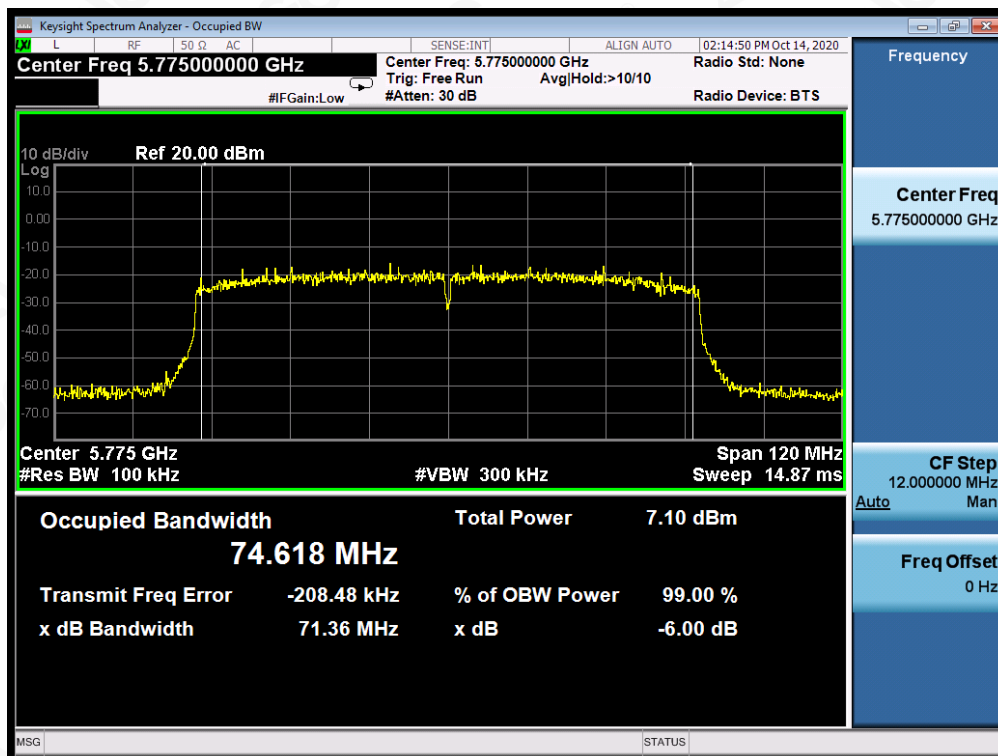


TEST PLOT OF BANDWIDTH FOR 5795MHZ



802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5775MHZ



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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

9.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

9.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

9.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

9.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION					
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/500kHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-1.781	-1.659	N/A	30	Pass
5785	-2.109	-2.121	N/A	30	Pass
5825	-2.088	-2.326	N/A	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION					
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-3.736	-4.440	-1.06	30	Pass
5785	-3.530	-3.751	-0.63	30	Pass
5825	-3.881	-3.707	-0.78	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION					
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5755	-6.484	-6.887	-3.67	30	Pass
5795	-7.094	-7.016	-4.04	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11AC20 MODULATION

Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-3.950	-3.297	-0.60	30	Pass
5785	-3.894	-3.876	-0.87	30	Pass
5825	-3.637	-4.227	-0.91	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC40 MODULATION

Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5755	-6.797	-6.842	-3.81	30	Pass
5795	-7.341	-6.973	-4.14	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION

Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Total (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5775	-9.862	-9.746	-6.79	30	Pass

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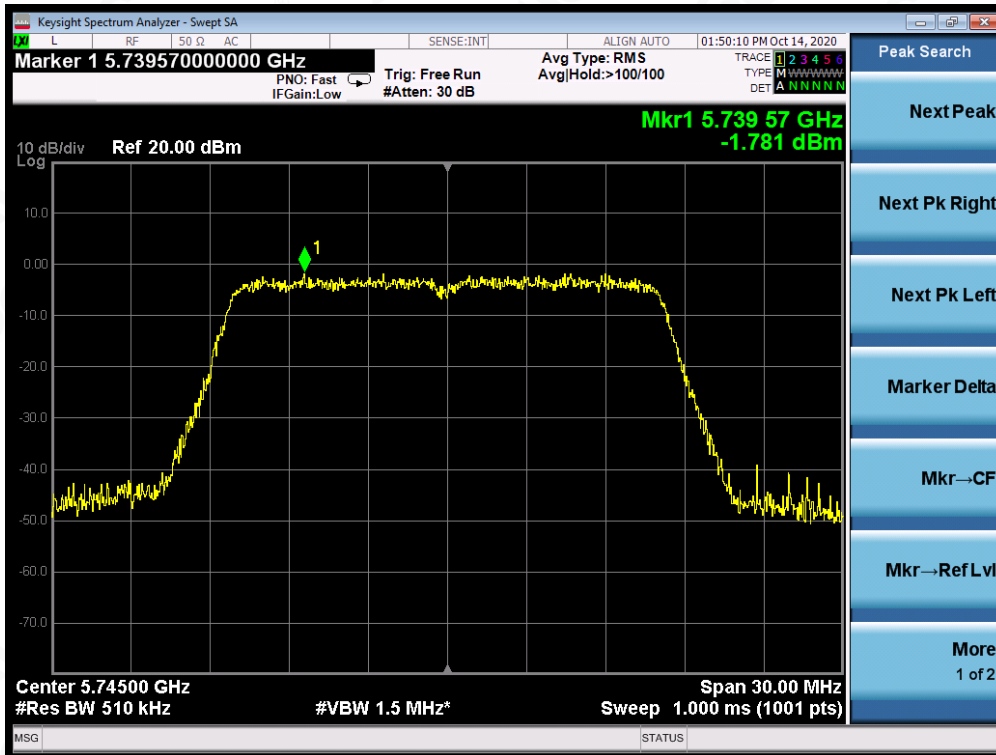
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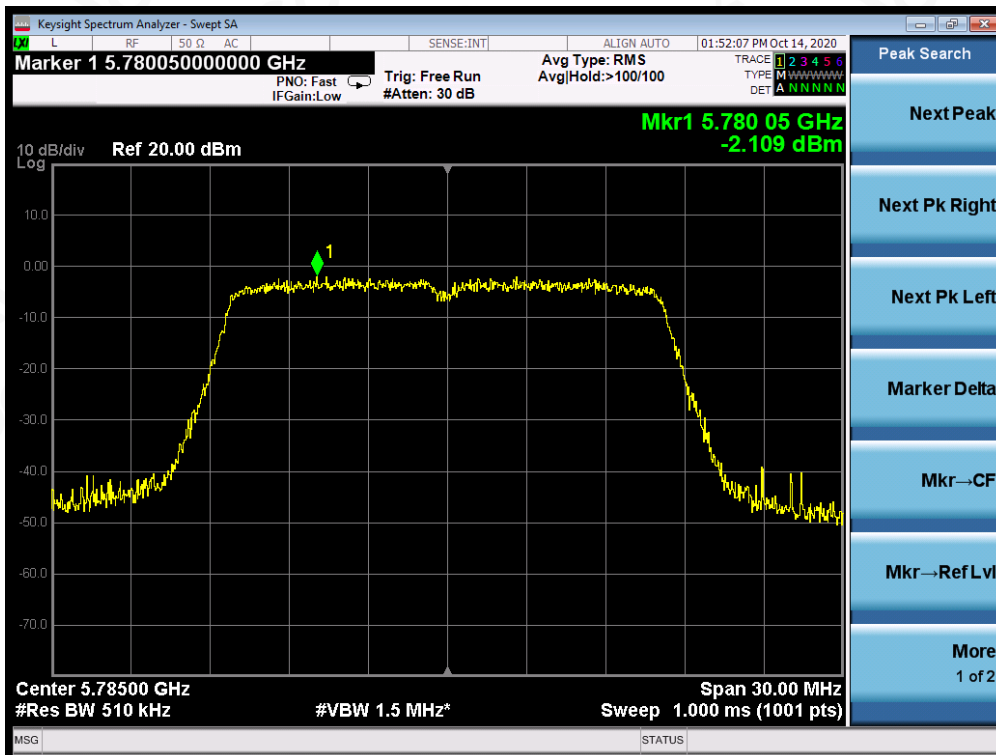
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802.11a20 TEST RESULT AT CHAIN 1
TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

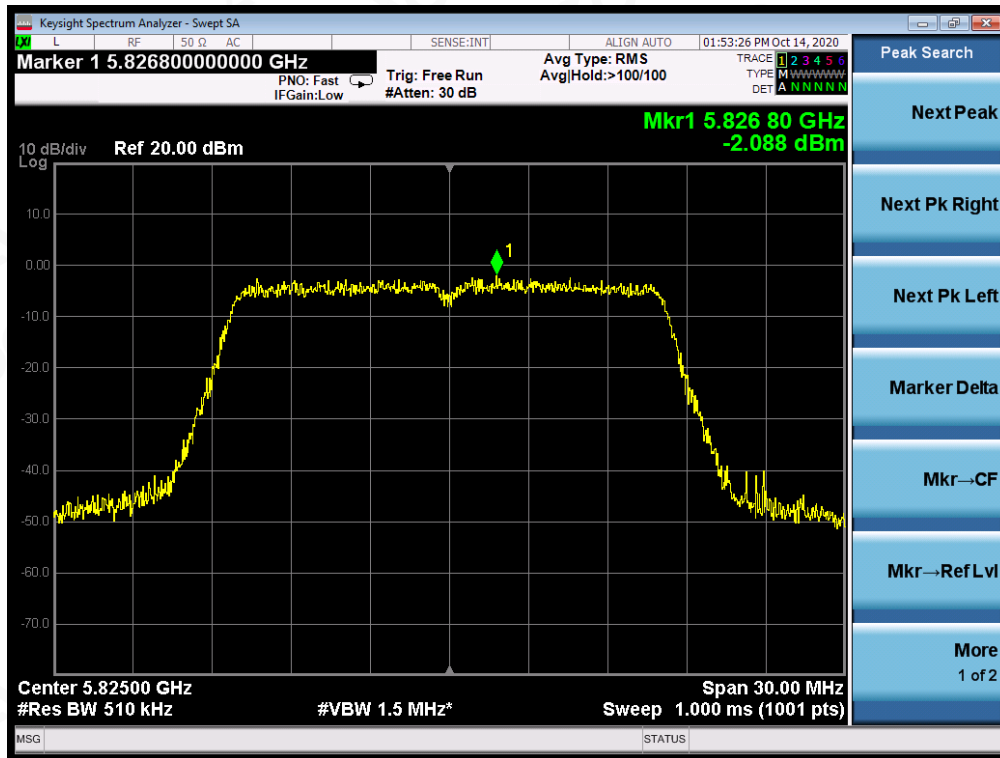


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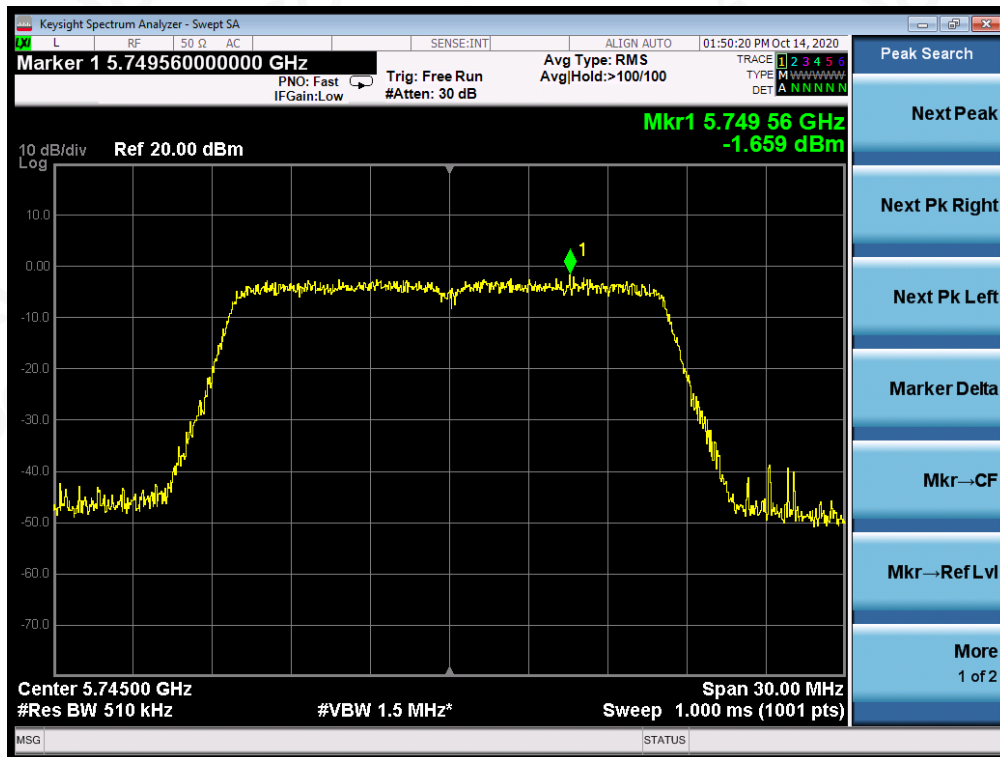


TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



802.11a20 TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

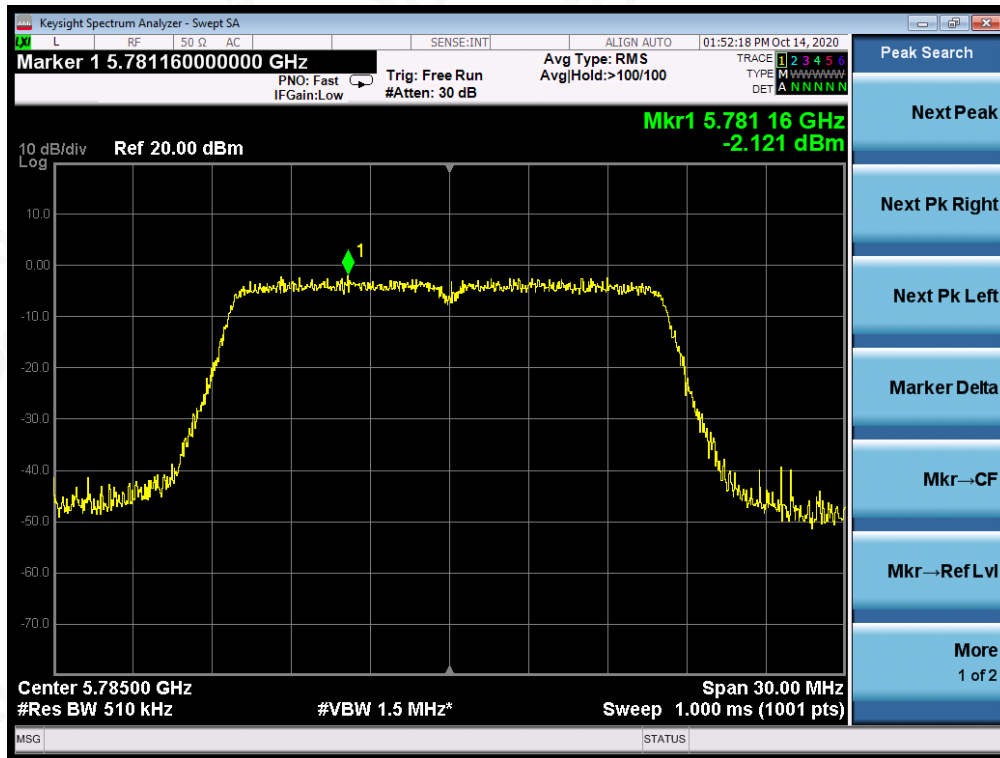


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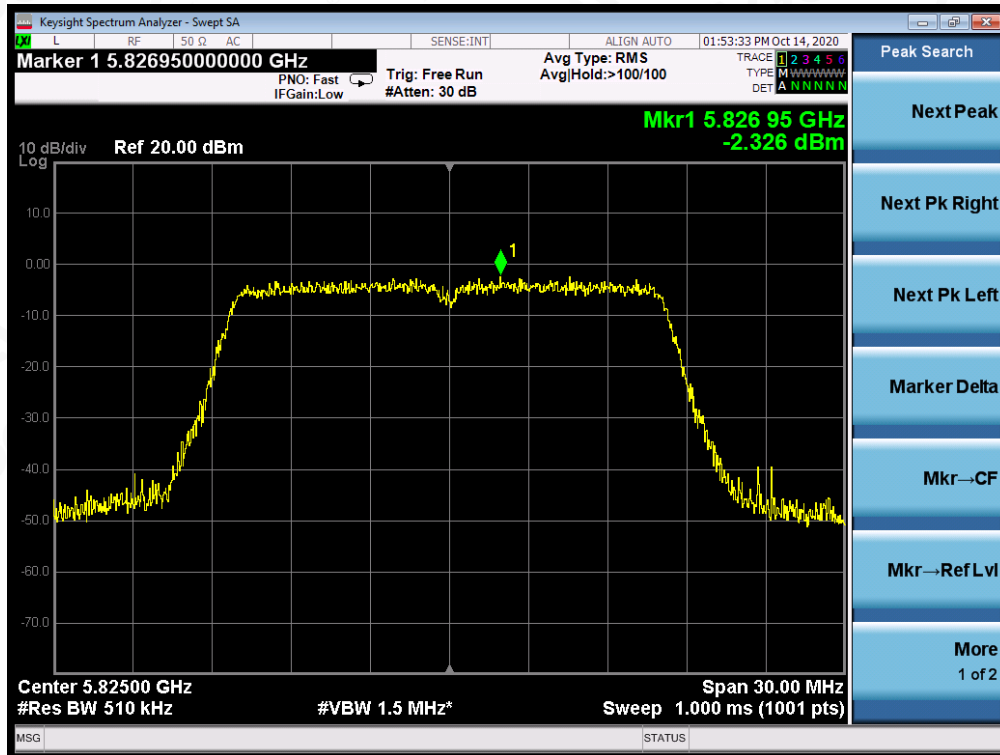
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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz

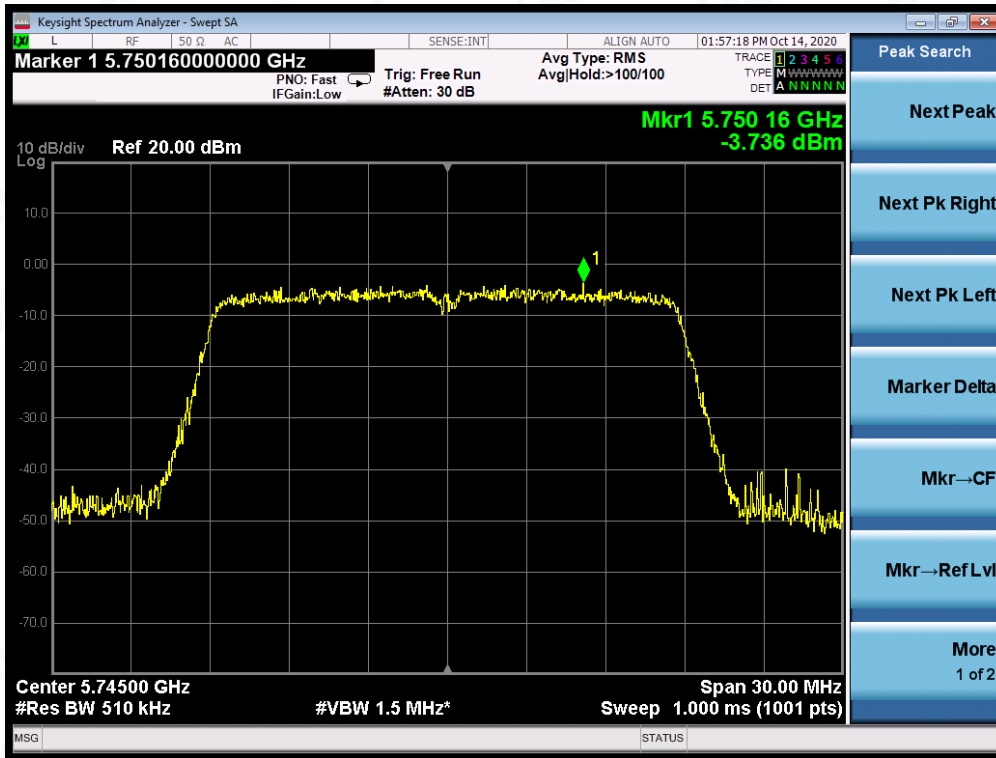


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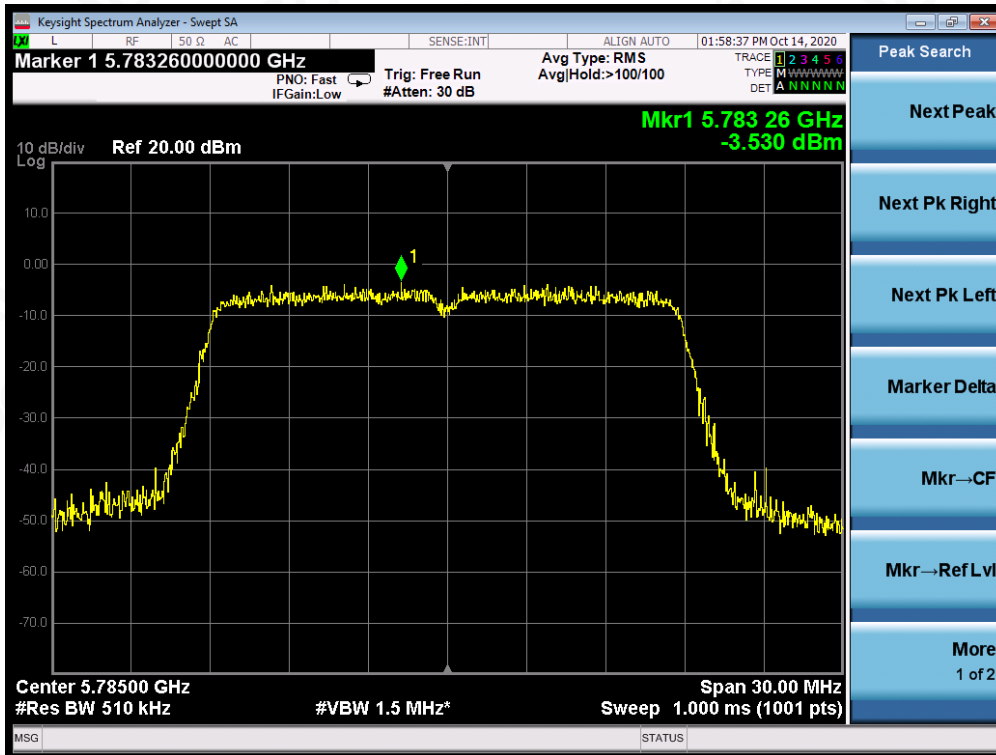
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802.11n20 TEST RESULT AT CHAIN 1
TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



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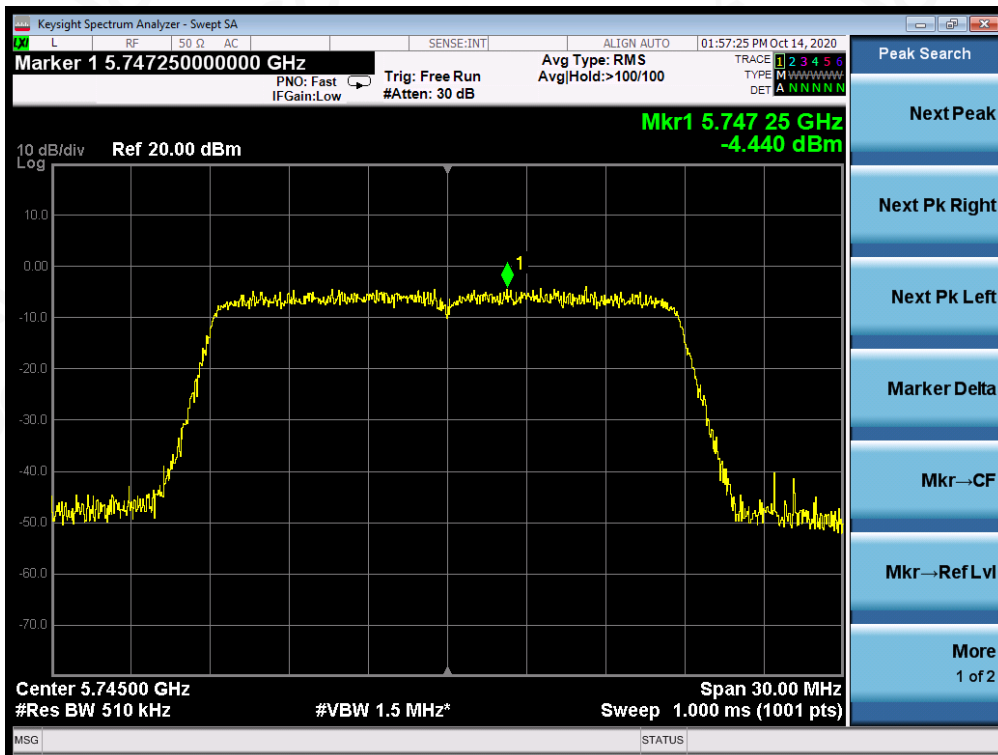


TEST PLOT OF SPECTRAL DENSITY FOR 5825MHZ



802.11n20 TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR 5745MHZ



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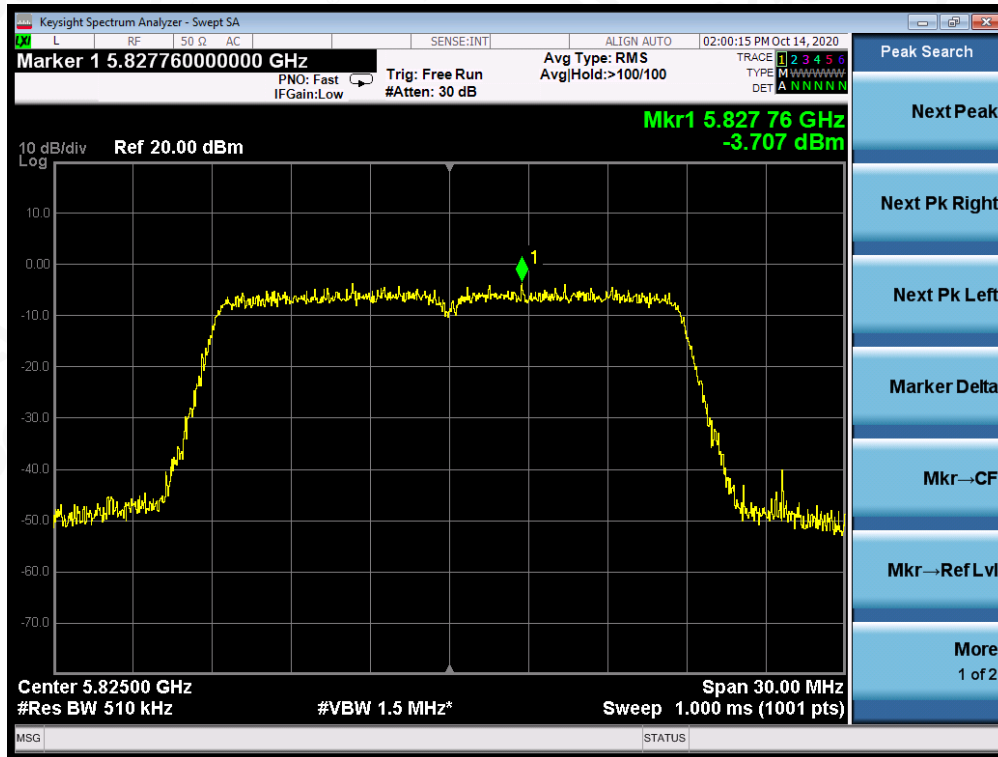
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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz

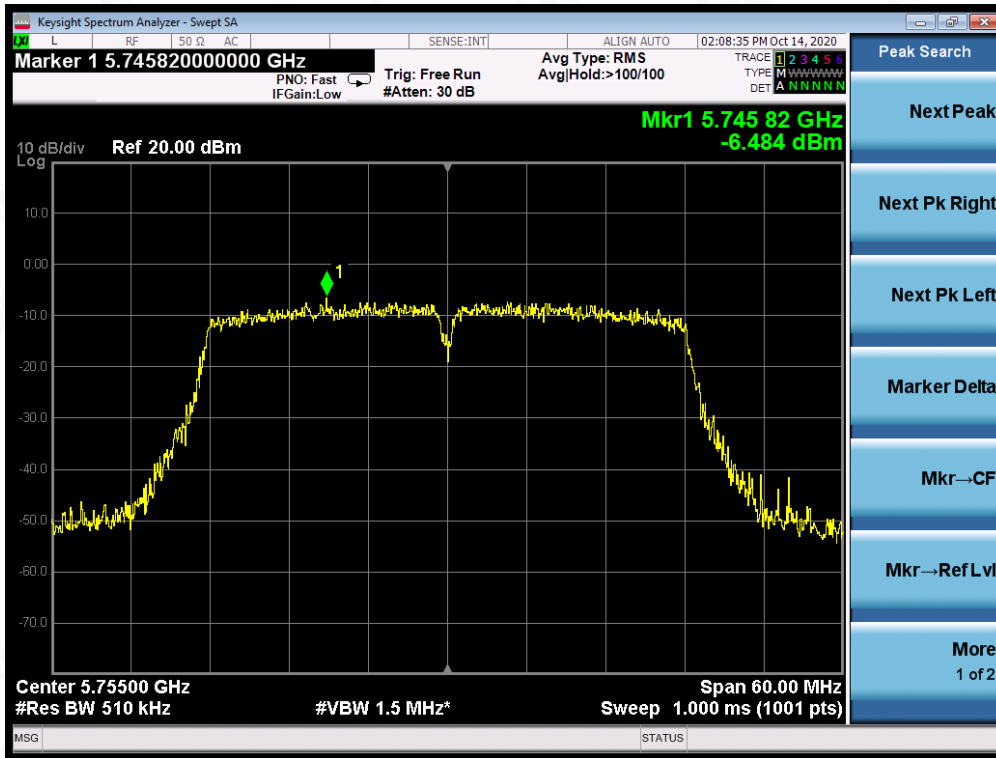


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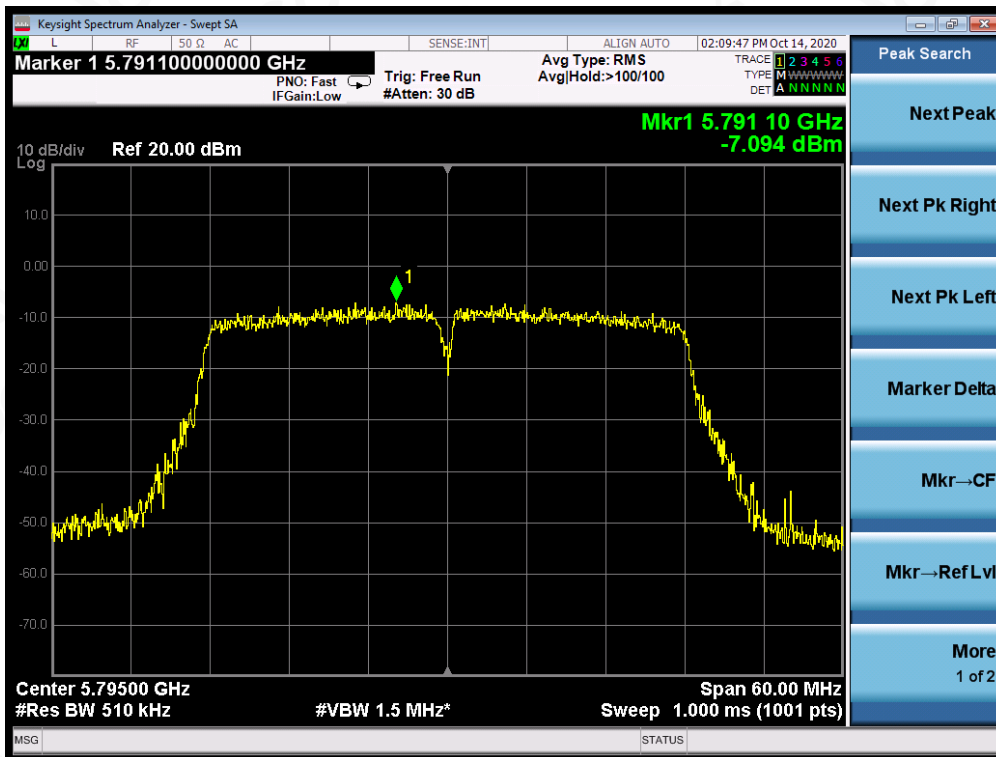
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802.11n40 TEST RESULT AT CHAIN 1
TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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802.11n40 TEST RESULT AT CHAIN 2
TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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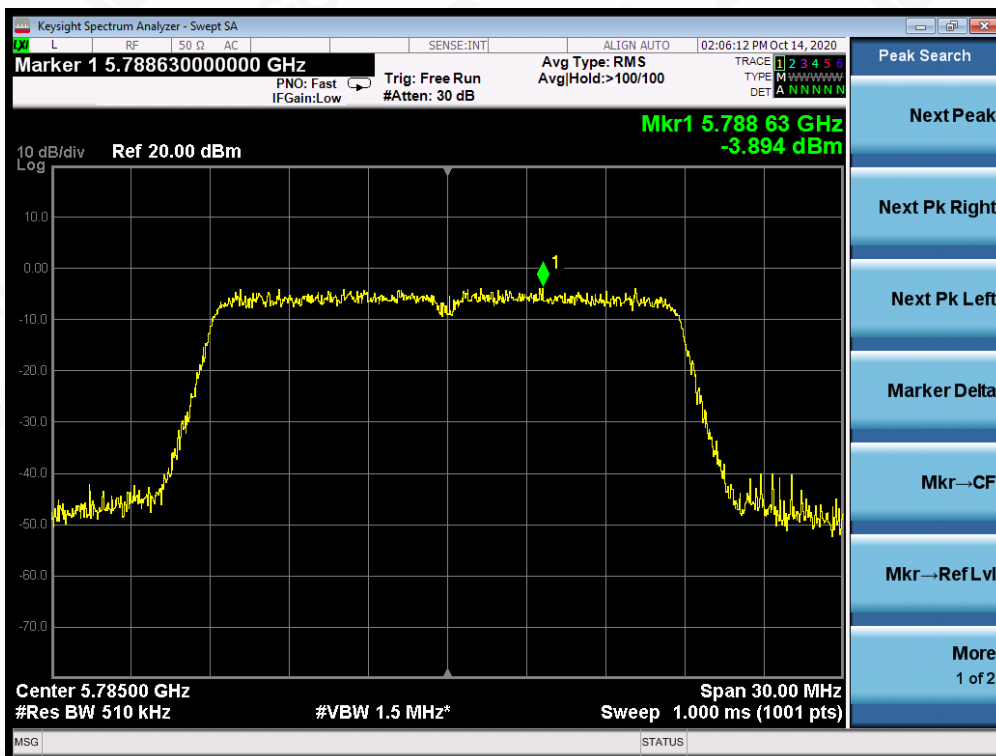
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802.11ac20 TEST RESULT AT CHAIN 1
TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



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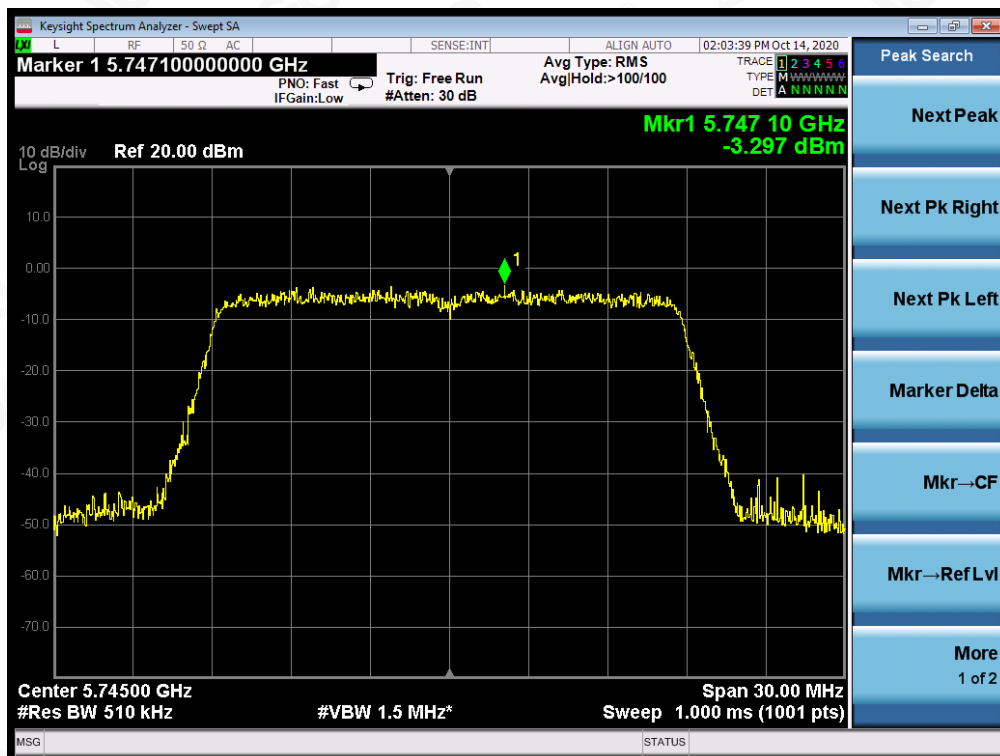


TEST PLOT OF SPECTRAL DENSITY FOR 5825MHZ



802.11ac20 TEST RESULT AT CHAIN 2

TEST PLOT OF SPECTRAL DENSITY FOR 5745MHZ

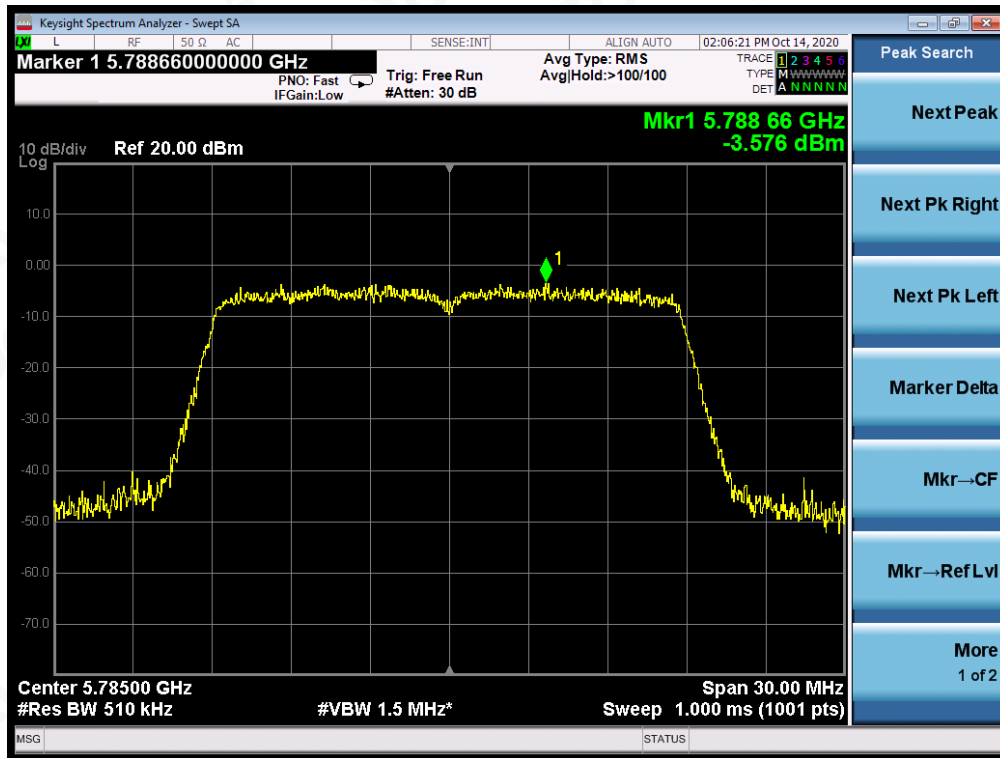


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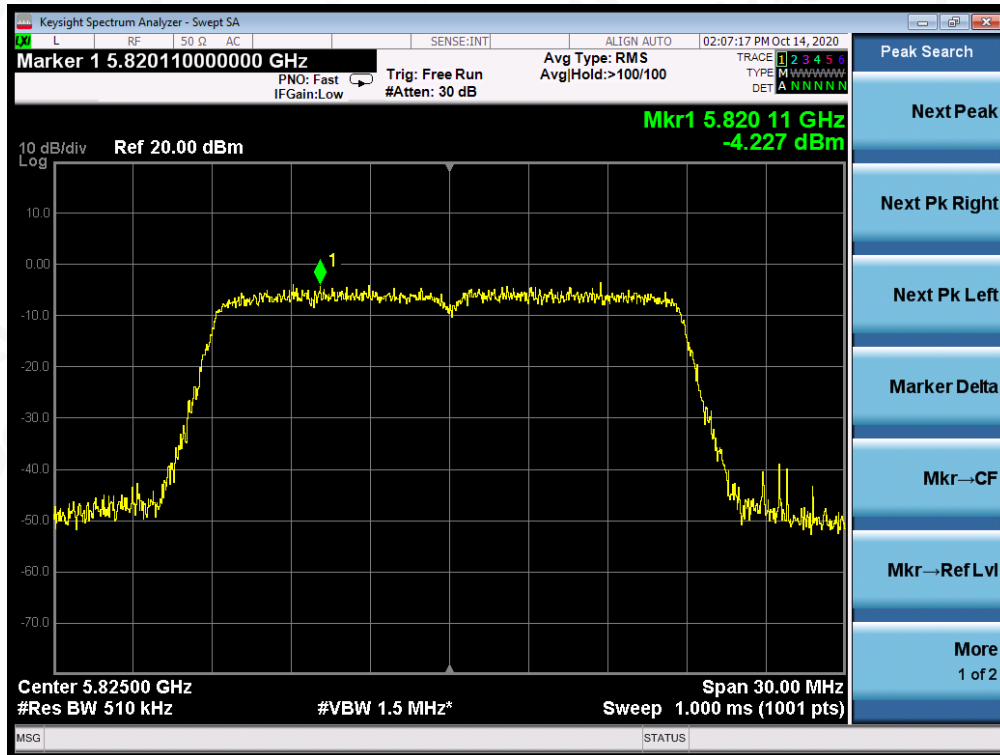
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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz

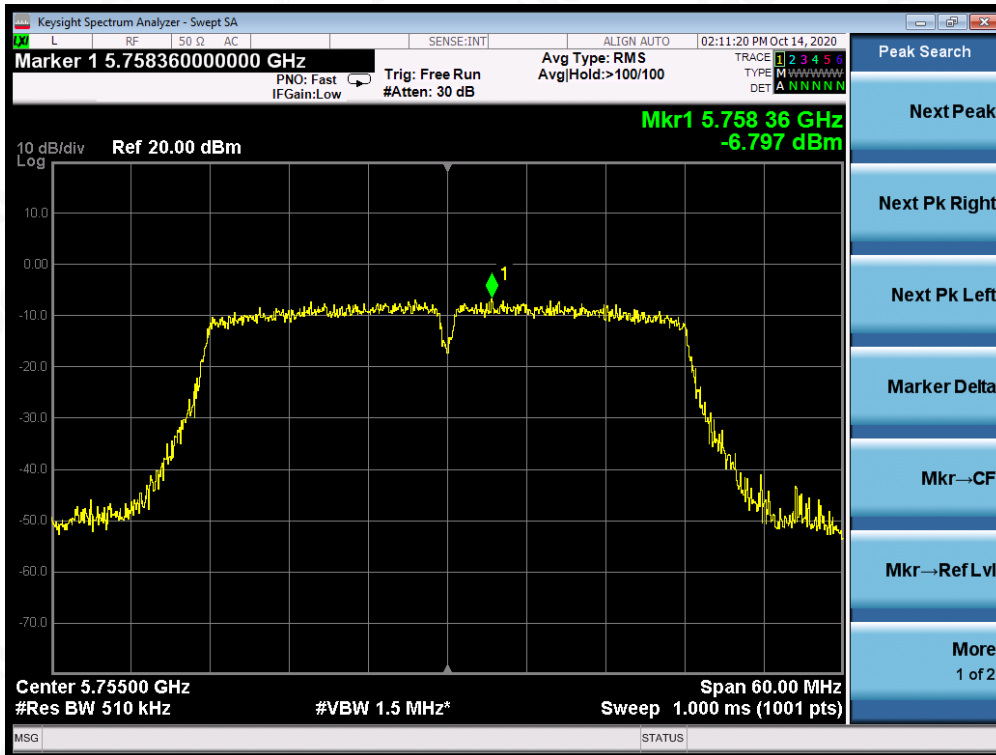


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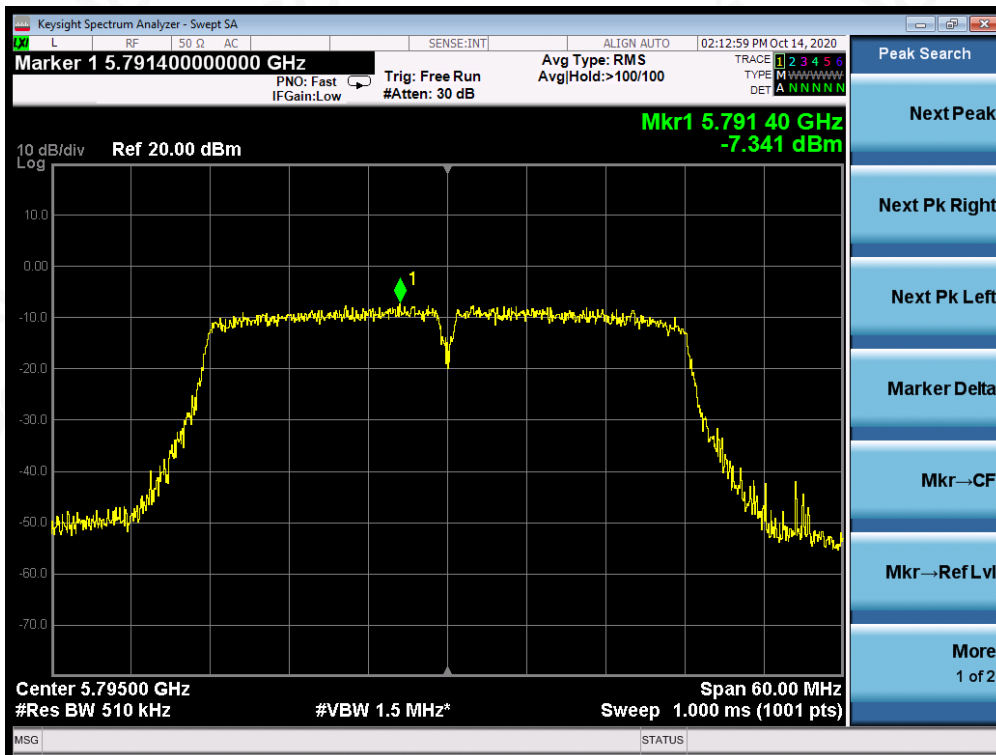
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802.11ac40 TEST RESULT AT CHAIN 1
TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz

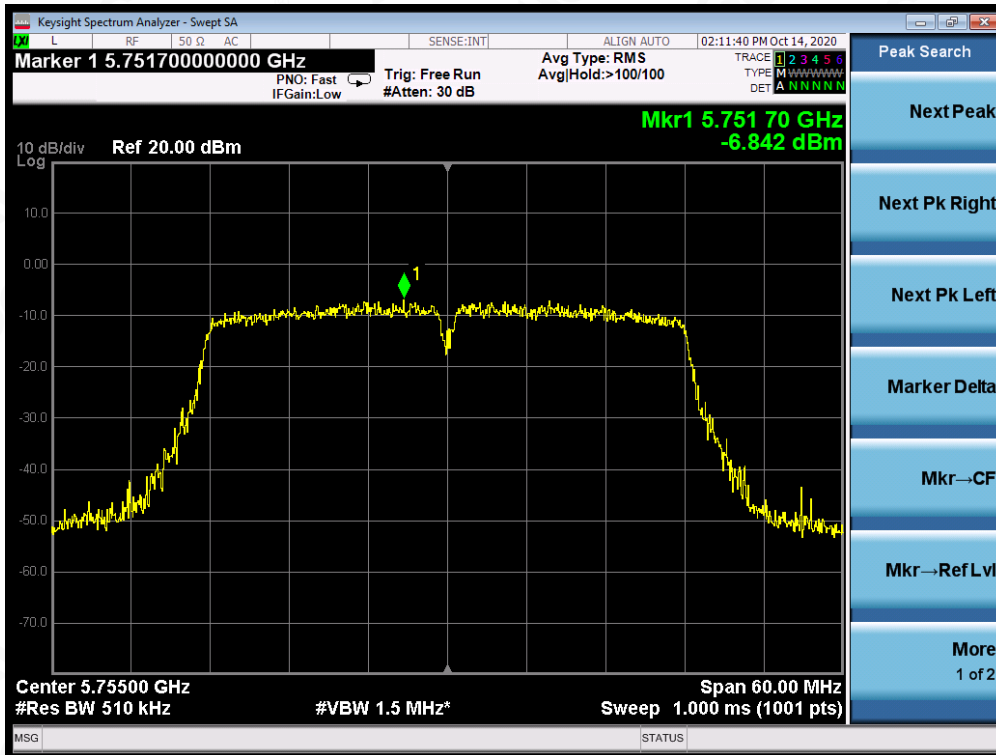


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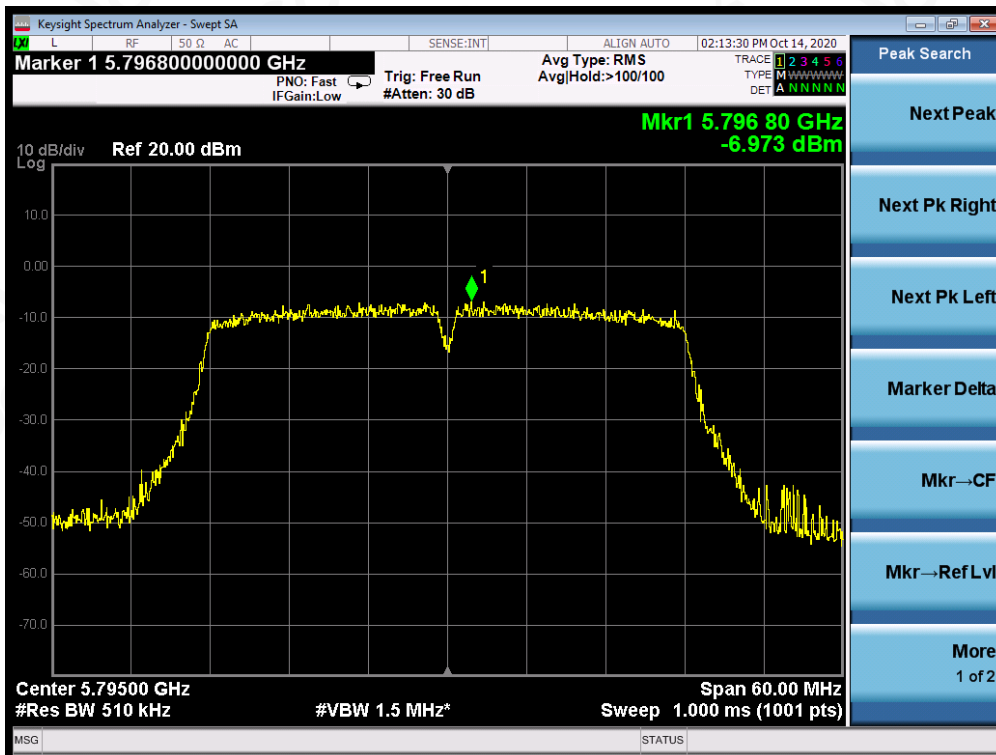
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802.11ac40 TEST RESULT AT CHAIN 2
TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz

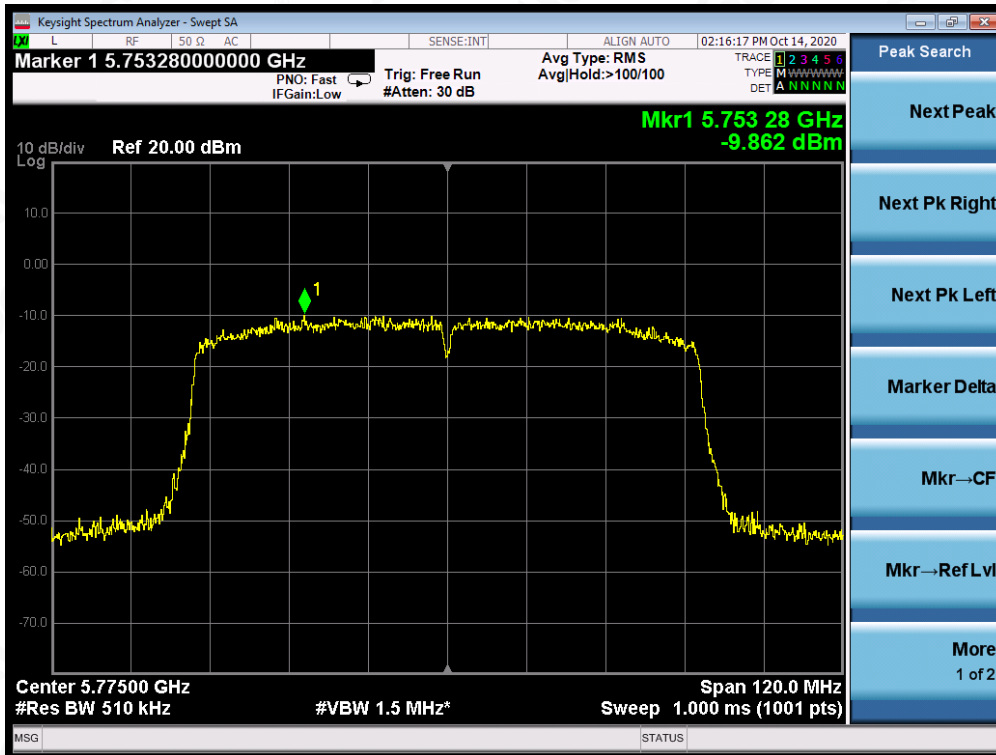


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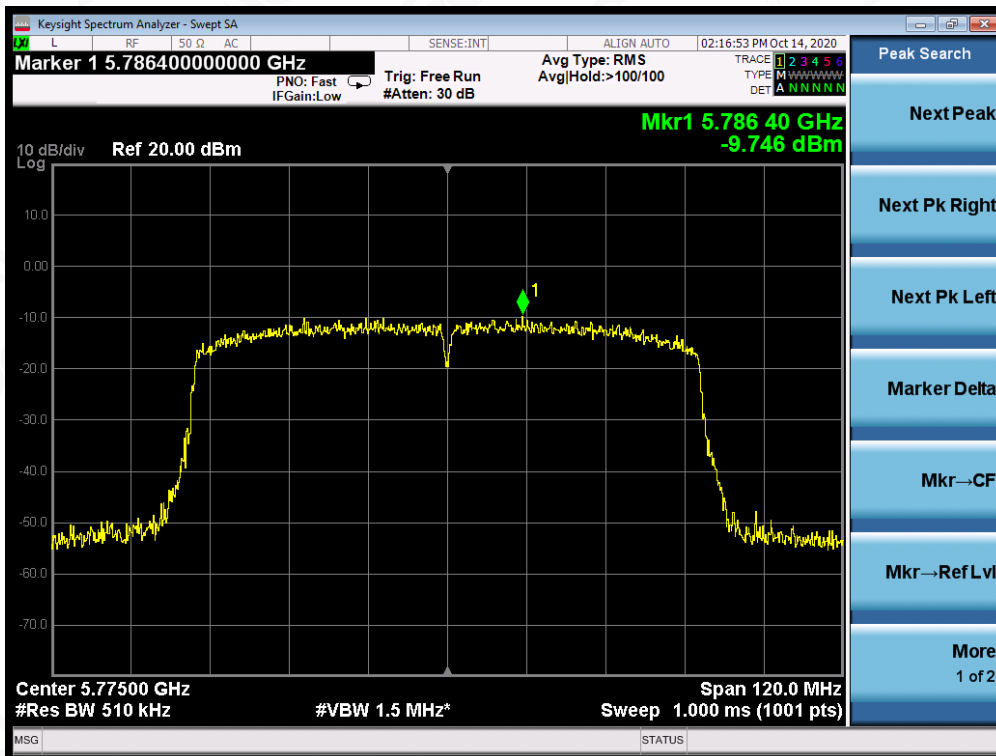
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802.11ac80 TEST RESULT AT CHAIN 1
TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



802.11ac80 TEST RESULT AT CHAIN 2
TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



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10. CONDUCTED SPURIOUS EMISSION

10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

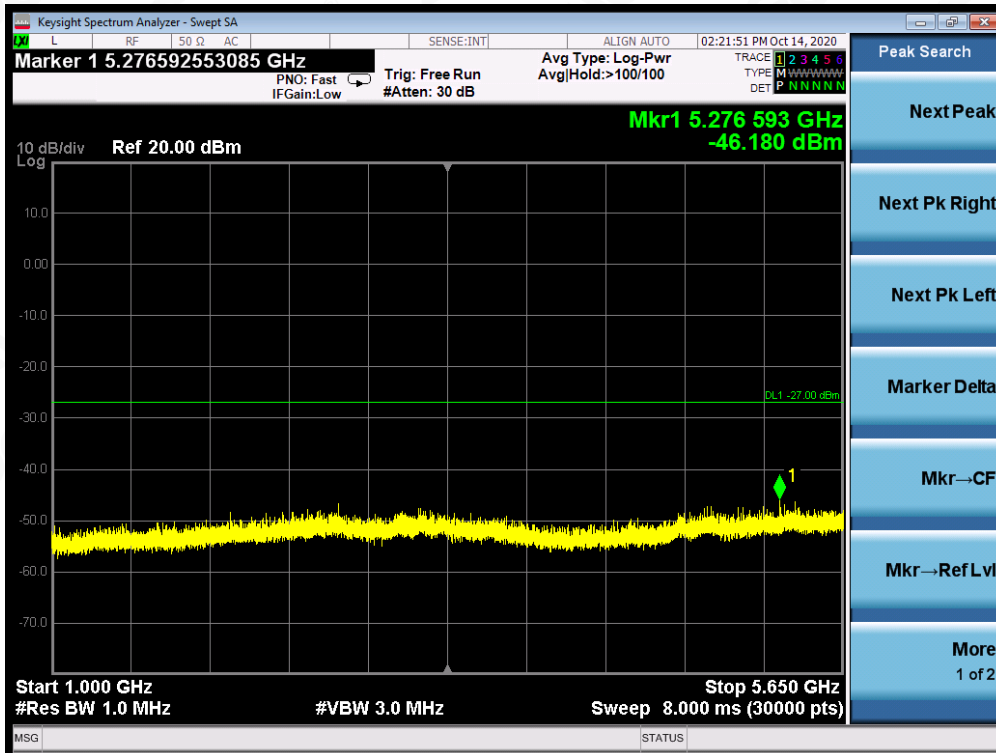
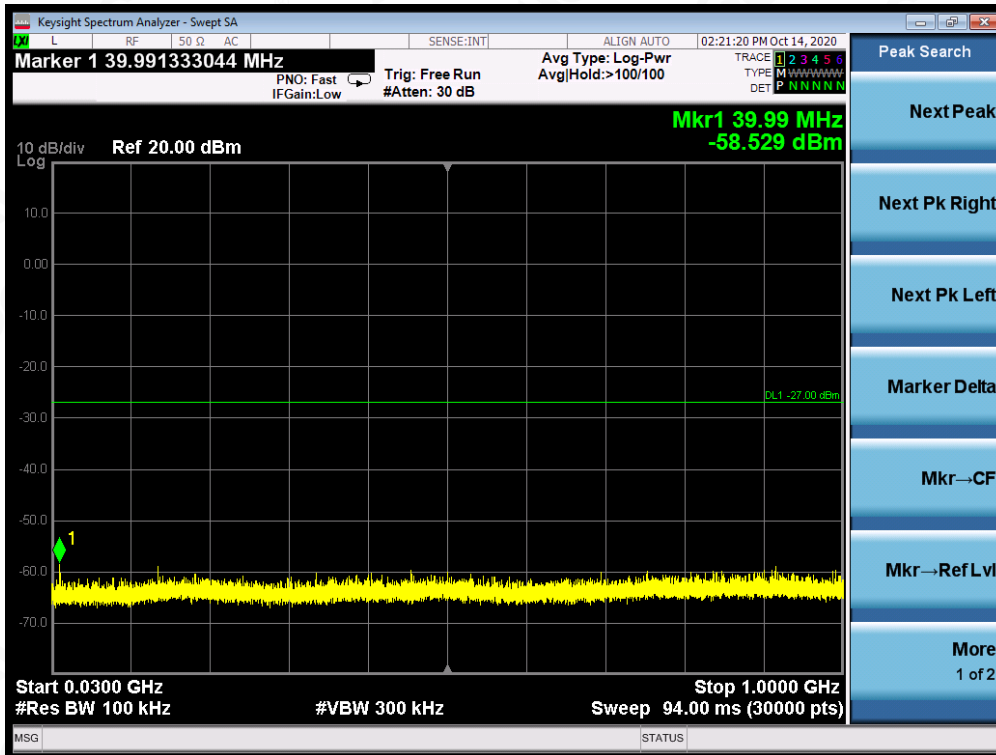
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	PASS

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FOR 802.11A20 MODULATION

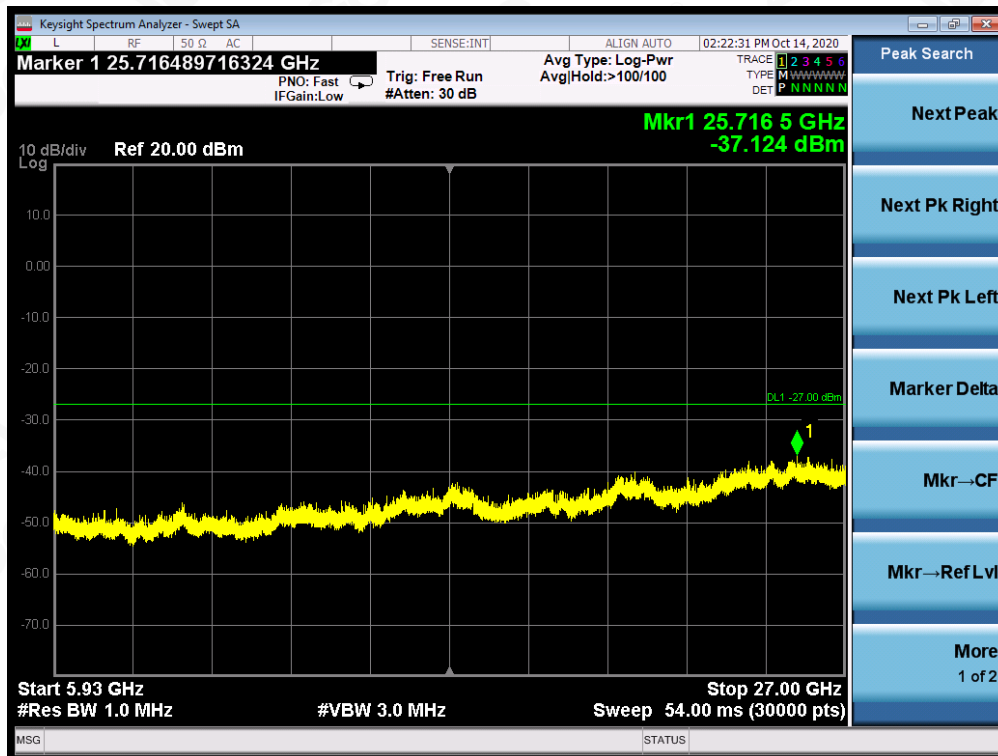
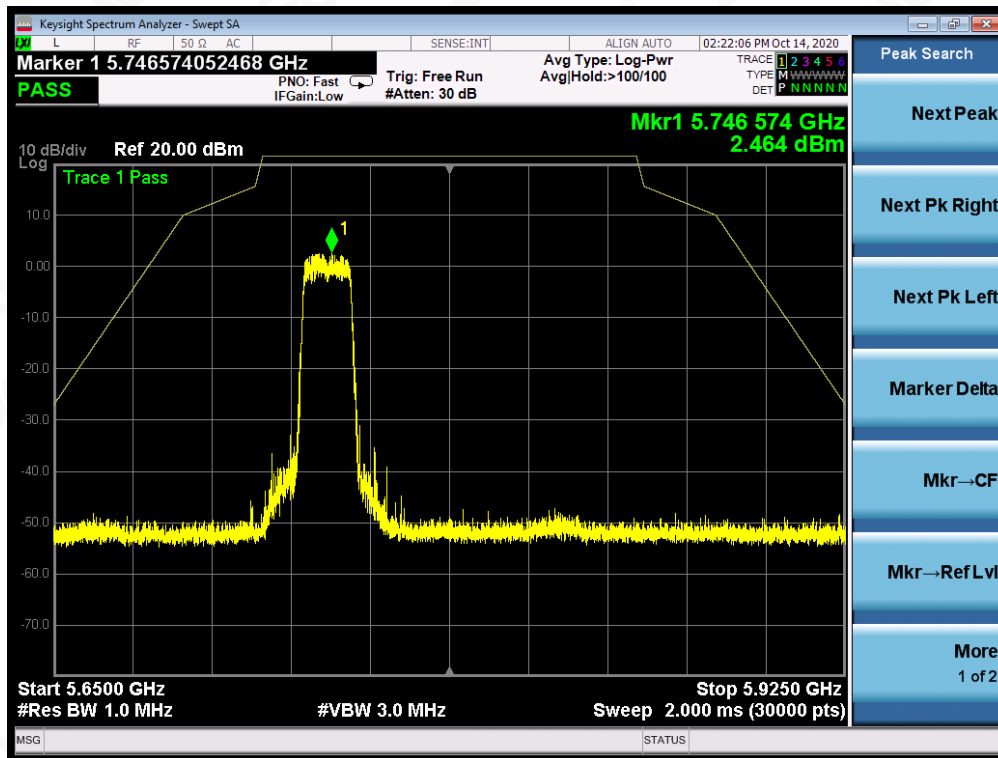
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz



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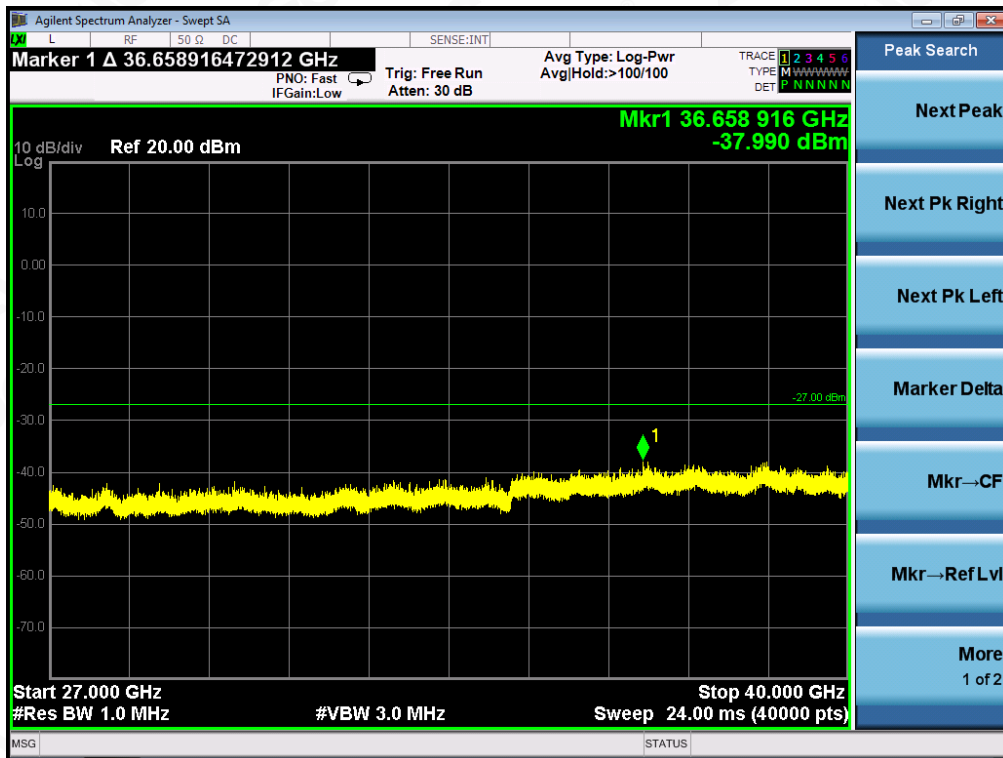




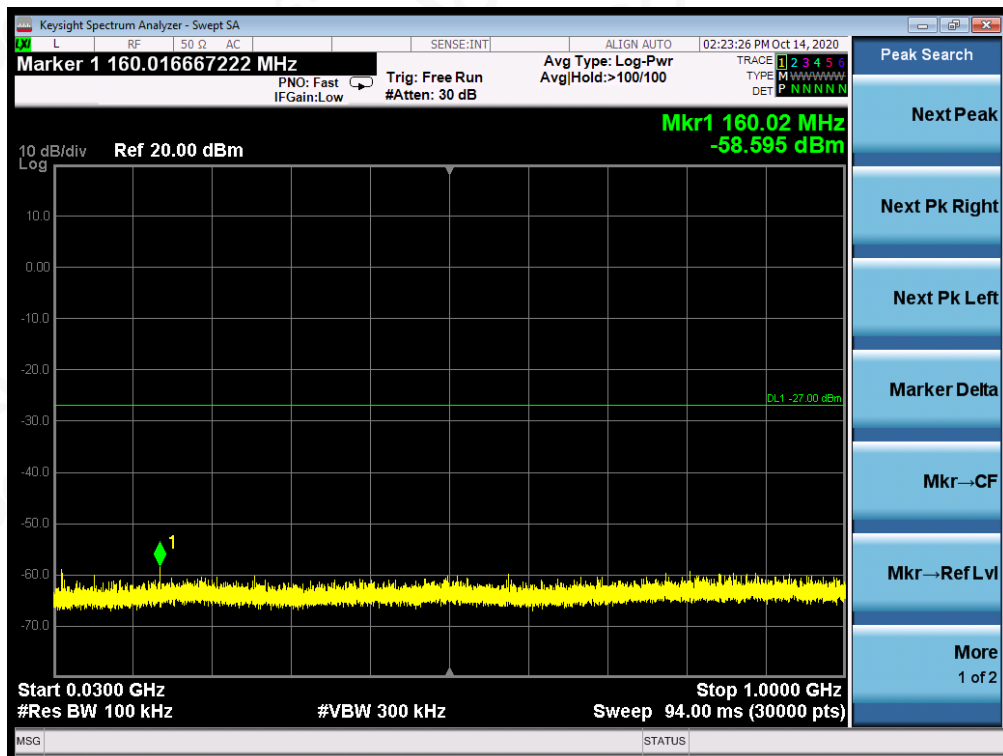
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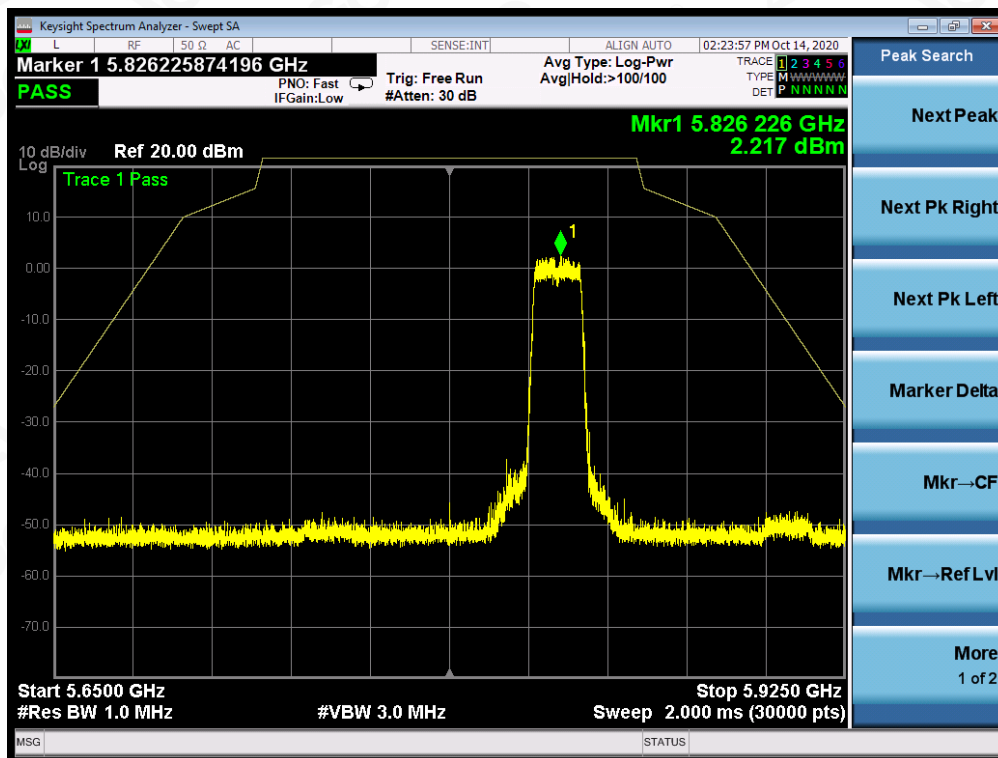
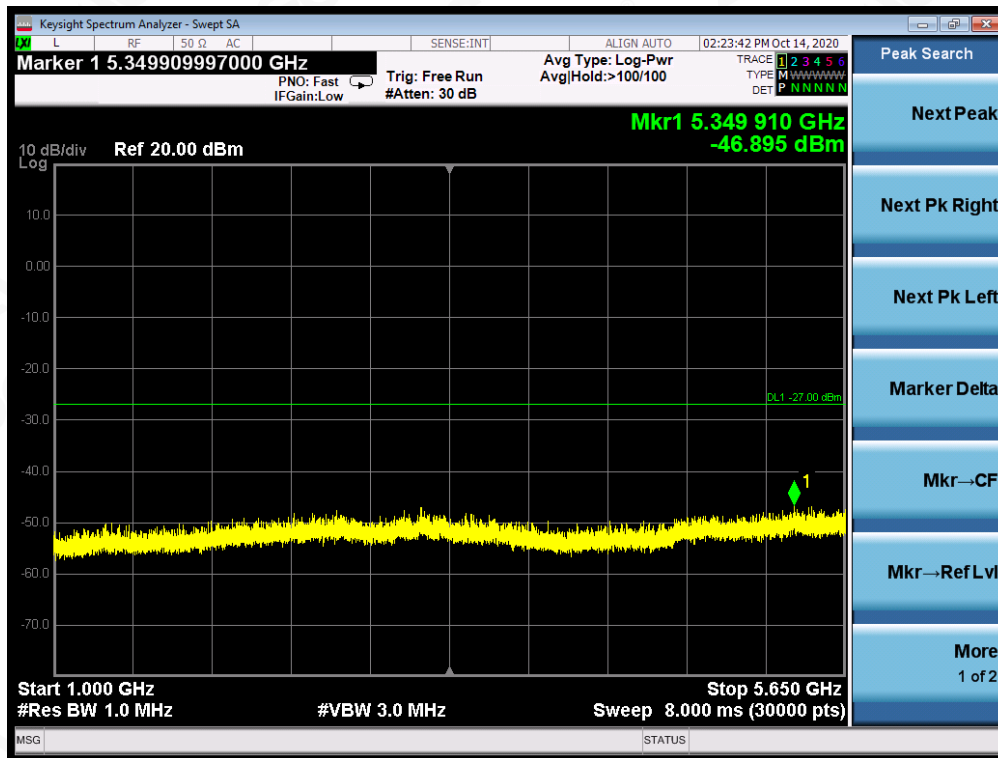
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz



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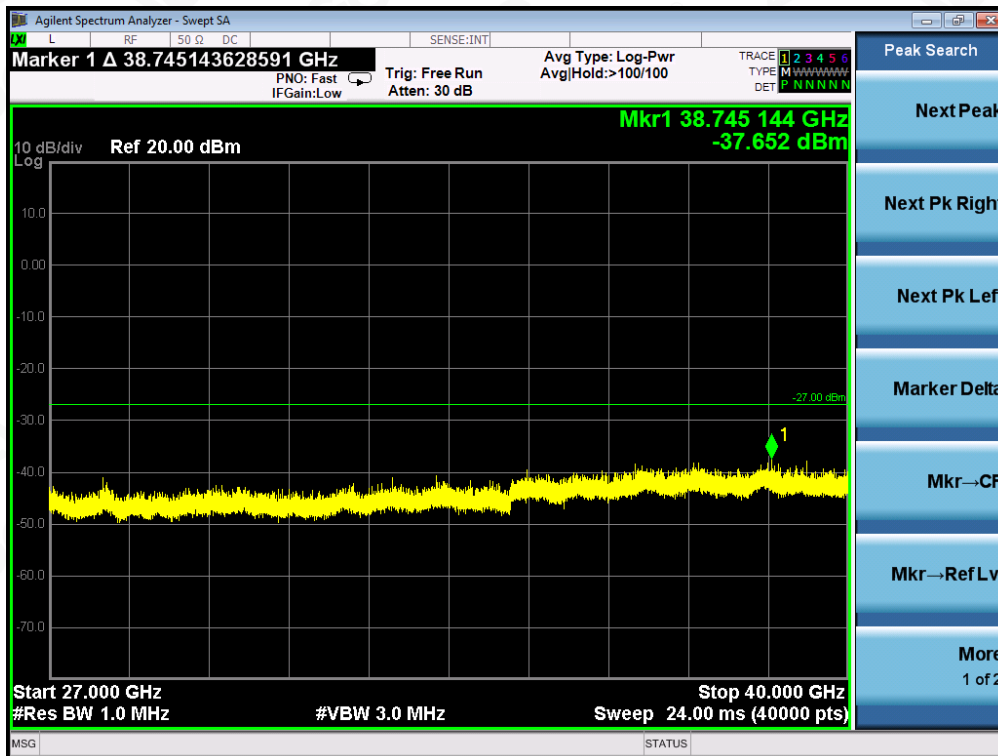
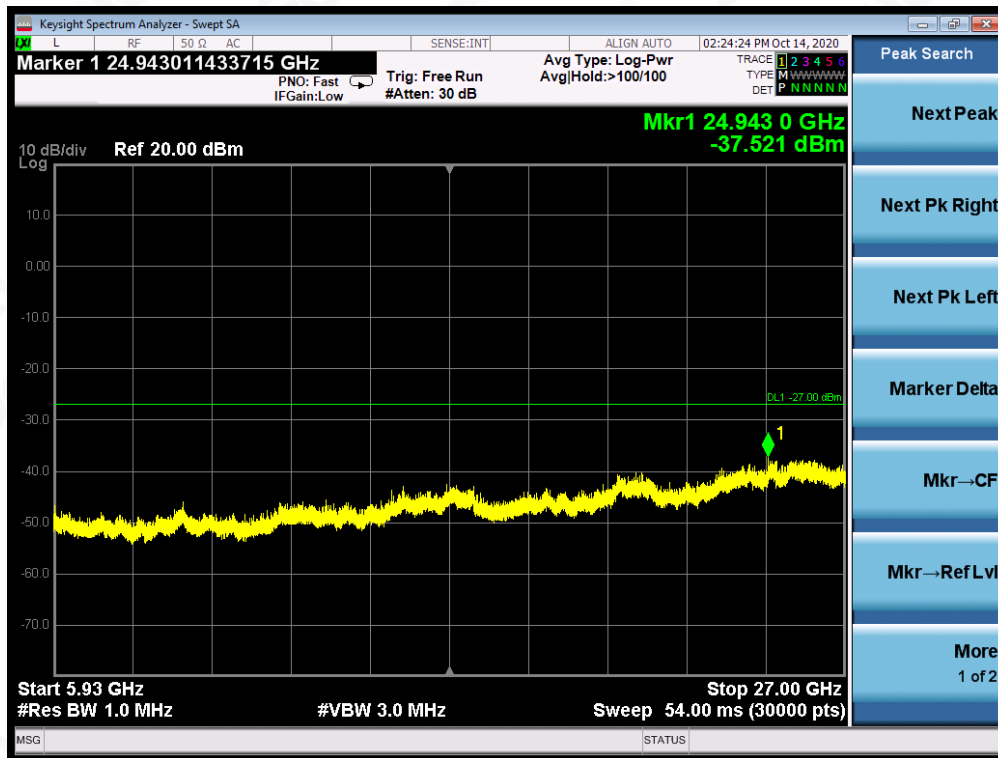




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