

FCC Test Report

Report No.: AGC02852200605FE06

FCC ID : 2ANKV-FK-MSY5
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : WIFI/BLUETOOTH SPEAKER
BRAND NAME : LEMEDIAR
MODEL NAME : MSY5, MSY3
APPLICANT : HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD
DATE OF ISSUE : Sep. 07, 2020
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 07, 2020	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	6
2. GENERAL INFORMATION.....	7
2.1. PRODUCT DESCRIPTION	7
2.2. TABLE OF CARRIER FREQUENCIES	8
2.3. RELATED SUBMITTAL(S) / GRANT (S)	9
2.4. TEST METHODOLOGY	9
2.5. SPECIAL ACCESSORIES	9
2.6. EQUIPMENT MODIFICATIONS	9
3. MEASUREMENT UNCERTAINTY	10
4. DESCRIPTION OF TEST MODES.....	11
5. SYSTEM TEST CONFIGURATION	12
5.1. CONFIGURATION OF EUT SYSTEM	12
5.2. EQUIPMENT USED IN EUT SYSTEM.....	12
5.3. SUMMARY OF TEST RESULTS.....	12
6. TEST FACILITY	13
7. MAXIMUM CONDUCTED OUTPUT POWER.....	14
7.1. MEASUREMENT PROCEDURE	14
7.2. TEST SET-UP.....	14
7.3. LIMITS AND MEASUREMENT RESULT	15
8. 6DB BANDWIDTH	17
8.1. MEASUREMENT PROCEDURE	17
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	17
8.3. LIMITS AND MEASUREMENT RESULTS	18
9. EMISSION BANDWIDTH.....	23
9.1. MEASUREMENT PROCEDURE	23

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9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	23
9.3. LIMITS AND MEASUREMENT RESULTS	24
10. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY	30
10.1 MEASUREMENT PROCEDURE	30
10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	30
10.3 MEASUREMENT EQUIPMENT USED	30
10.4 LIMITS AND MEASUREMENT RESULT	30
11. CONDUCTED SPURIOUS EMISSION	40
11.1. MEASUREMENT PROCEDURE	40
11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	40
11.3. MEASUREMENT EQUIPMENT USED	40
11.4. LIMITS AND MEASUREMENT RESULT	40
12. RADIATED EMISSION.....	61
12.1. MEASUREMENT PROCEDURE	61
12.2. TEST SETUP.....	62
12.3. LIMITS AND MEASUREMENT RESULT	63
12.4. TEST RESULT	63
13. BAND EDGE EMISSION	72
13.1. MEASUREMENT PROCEDURE	72
13.2. TEST SET-UP.....	72
13.3. TEST RESULT.....	73
14. FREQUENCY STABILITY.....	77
14.1. MEASUREMENT PROCEDURE	77
14.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	77
14.3. MEASUREMENT RESULTS.....	78
15. FCC LINE CONDUCTED EMISSION TEST	81
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST	81
15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	81
15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	82

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15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	82
15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	83
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	85
APPENDIX B: PHOTOGRAPHS OF EUT	87

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1. VERIFICATION OF CONFORMITY

Applicant	HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD
Address	No.120 Shuidian Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China 516123
Manufacturer	HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD
Address	No.120 Shuidian Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China 516123
Factory	HUIZHOU LEMEDIA TECHNOLOGY CO.,LTD
Address	No.120 Shuidian Road, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, China 516123
Product Designation	WIFI/BLUETOOTH SPEAKER
Brand Name	LEMEDIA
Test Model	MSY5
Series Model	MSY3
Difference Description	All the series model is same as the test model except for function. The model MSY5 has CD function and the model MSY3 has no CD function.
Date of test	Jun. 26, 2020 to Sep. 07, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By

Sky Dong

Sky Dong
(Project Engineer)

Sep. 07, 2020

Reviewed By

Max Zhang

Max Zhang
(Reviewer)

Sep. 07, 2020

Approved By

Forrest Lei

Forrest Lei
(Authorized Officer)

Sep. 07, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “WIFI/BLUETOOTH SPEAKER”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	5150 MHz~5250MHz; 5725 MHz~5850MHz
Output Power	IEEE 802.11a20:15.33dBm; IEEE 802.11n(20):15.36dBm; IEEE802.11n(40):15.11dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Number of channels	39
Hardware Version	V3.118.55-g88a1f9
Software Version	1A9
Antenna Designation	Integral Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	2dBi
Power Supply	DC 12V by adapter

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2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
5150 GHz~ 5250GHz	36	5180 MHz	5725 GHz~ 5850GHz	149	5745 MHz
	38	5190 MHz		151	5755 MHz
	40	5200 MHz		153	5765 MHz
	42	5210 MHz		155	5775MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,151,159.

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

This submittal(s) (test report) is intended for **FCC ID:** 2ANKV-FK-MSY5 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.

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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	36,40,44,48,149,153,157,161,165	36,40, 48,149,157,165	OFDM	6/6.5
802.11n40	38,46,151,159	38,46, 151,159	OFDM	13.5

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 customer burns the tested firmware and sets the EUT's work through remote control.

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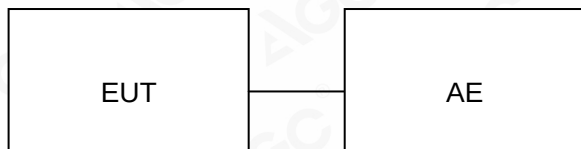
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	WIFI/BLUETOOTH SPEAKER	MSY5	2ANKV-FK-MSY5	EUT
2	Adapter	GQ36-120300-AX	Input:100-240V, 50/60Hz, 1.0 Max Output:12.0V, 3.0A	AE
3	Smart phone	P8	N/A	AE
4.	Earphone	AM116	N/A	AE
5	Load	RX24-50W50 Ω	N/A	AE
6	Remote control	N/A	N/A	AE
7	U-disk	DataTraveler SE9 16G	N/A	AE

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	Aug. 26, 2019	Aug. 25, 2020
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	Sep. 10, 2019	Sep. 09, 2020
5GHz Fliter	Micro-tronics	N/A	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 09, 2019	Sep. 08, 2020
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	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ EMC (Ver.RA-03A)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

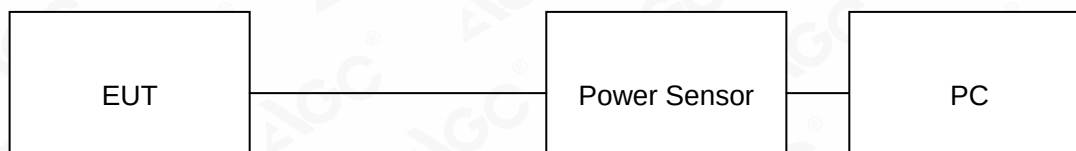
For average power test:

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 (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	14.94	24	Pass
5200	14.22	24	Pass
5240	15.33	24	Pass
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5745	5.78	30	Pass
5785	7.11	30	Pass
5825	2.00	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	14.39	24	Pass
5200	14.22	24	Pass
5240	15.36	24	Pass
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5745	5.64	30	Pass
5785	6.66	30	Pass
5825	2.11	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5190	14.31	24	Pass
5230	15.11	24	Pass
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5755	5.02	30	Pass
5795	2.91	30	Pass

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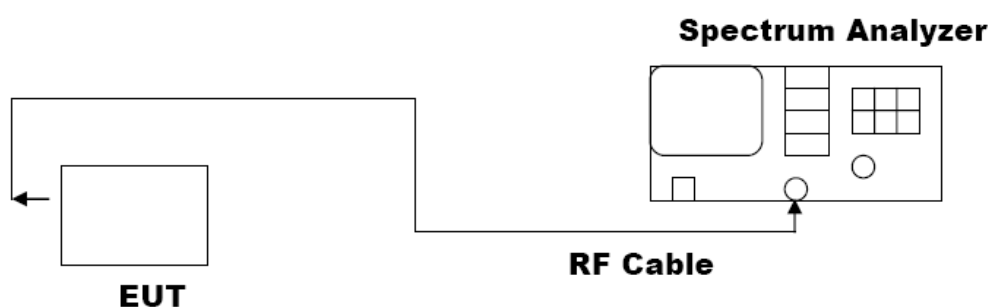
8. 6dB BANDWIDTH

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
>500KHZ	5745MHz	16.35	PASS
	5785MHz	16.38	PASS
	5825MHz	16.40	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	17.60	PASS
	5785MHz	17.32	PASS
	5825MHz	17.57	PASS
	5755MHz	35.41	PASS
	5795MHz	35.72	PASS

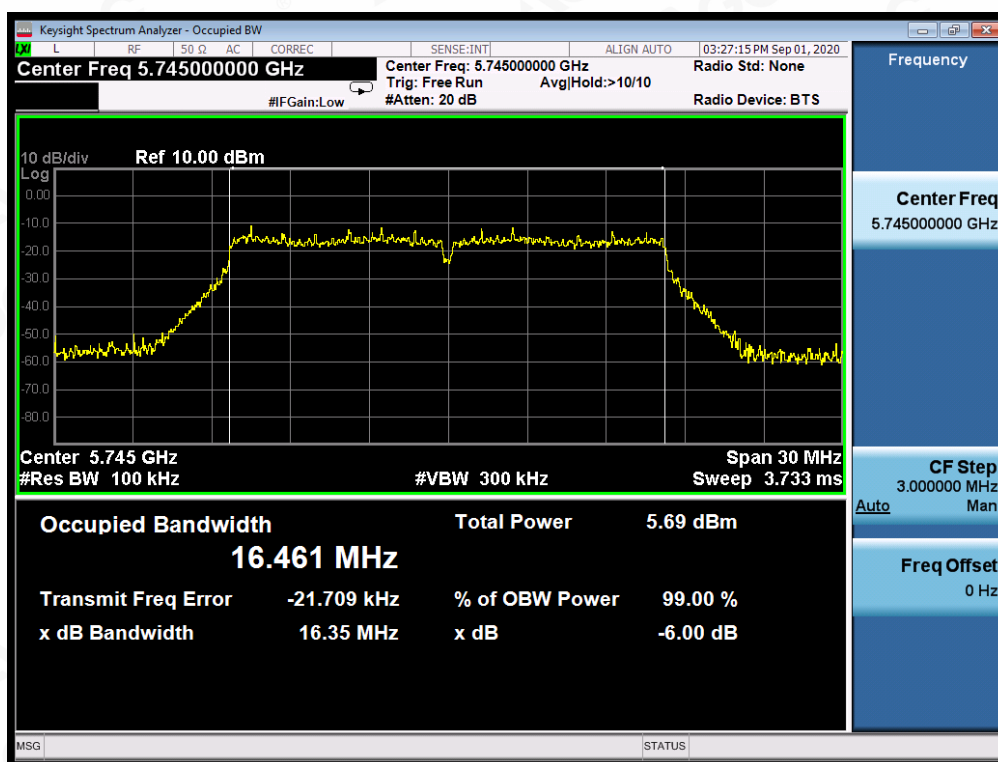
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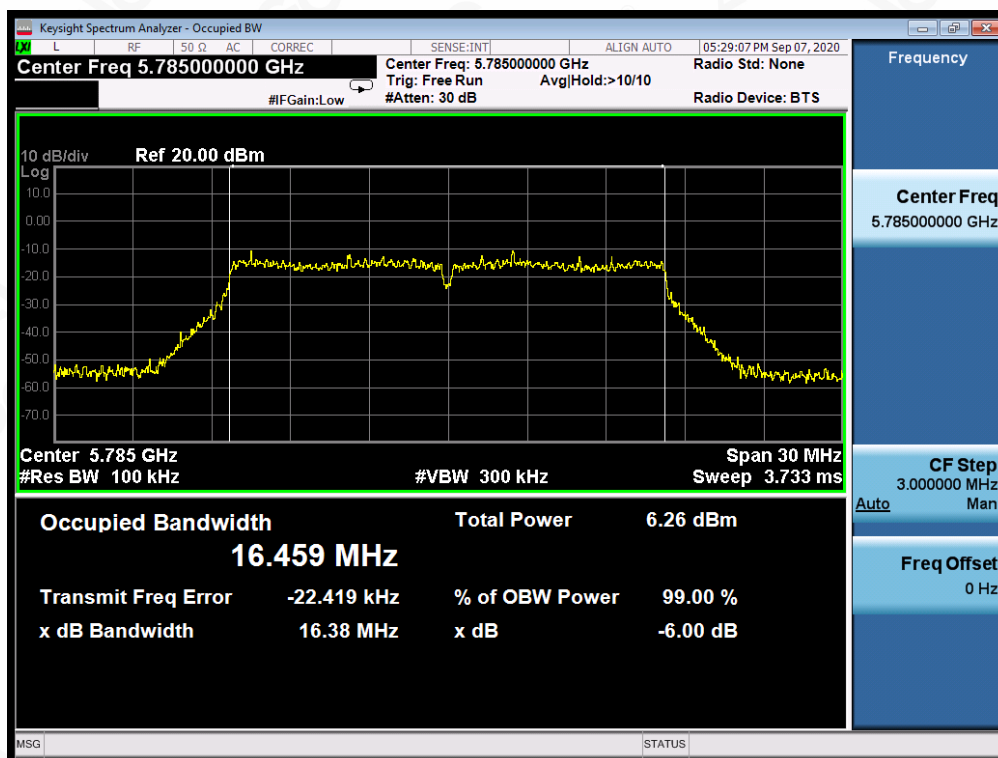


802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHZ



TEST PLOT OF BANDWIDTH FOR 5785MHZ

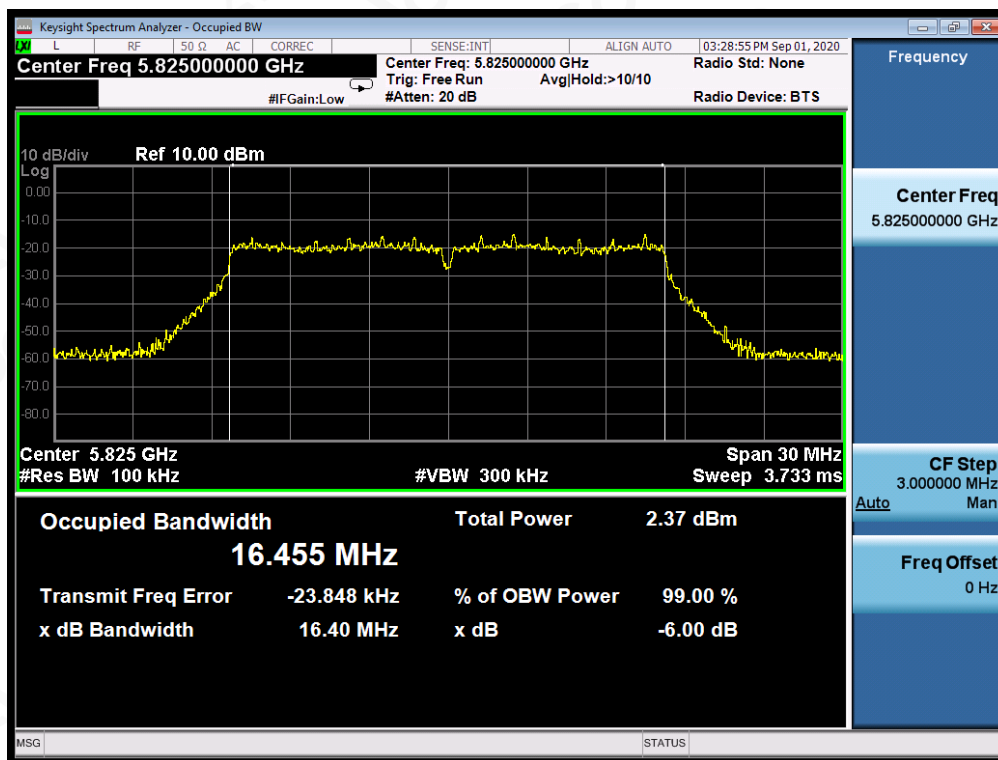


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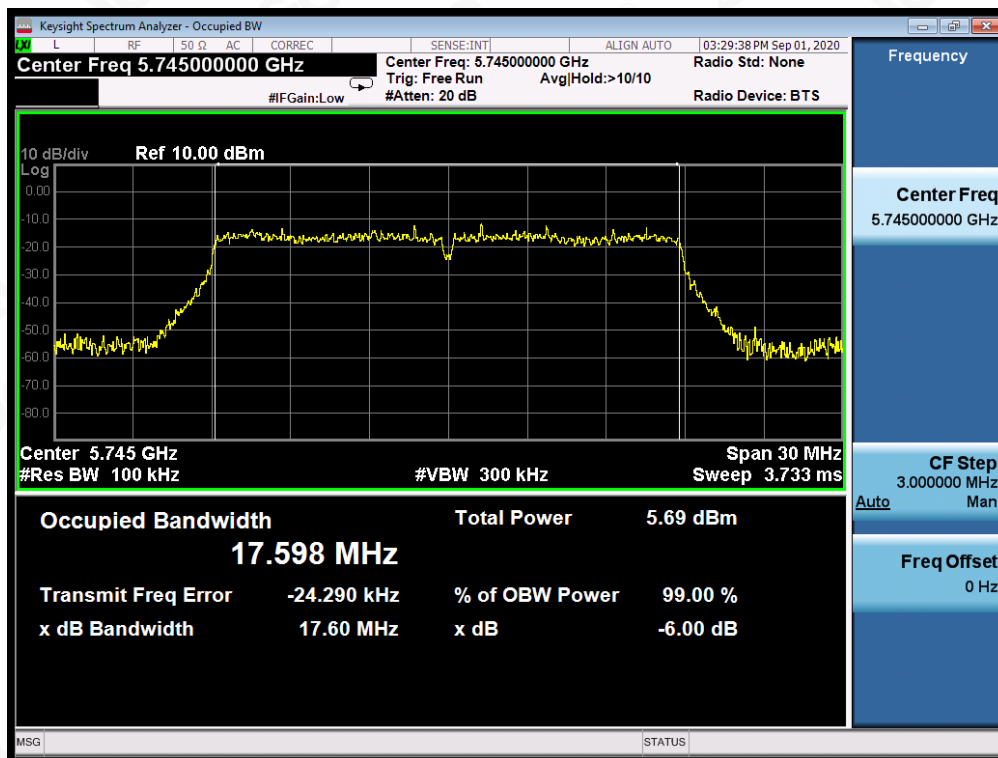


TEST PLOT OF BANDWIDTH FOR 5825MHz



802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz



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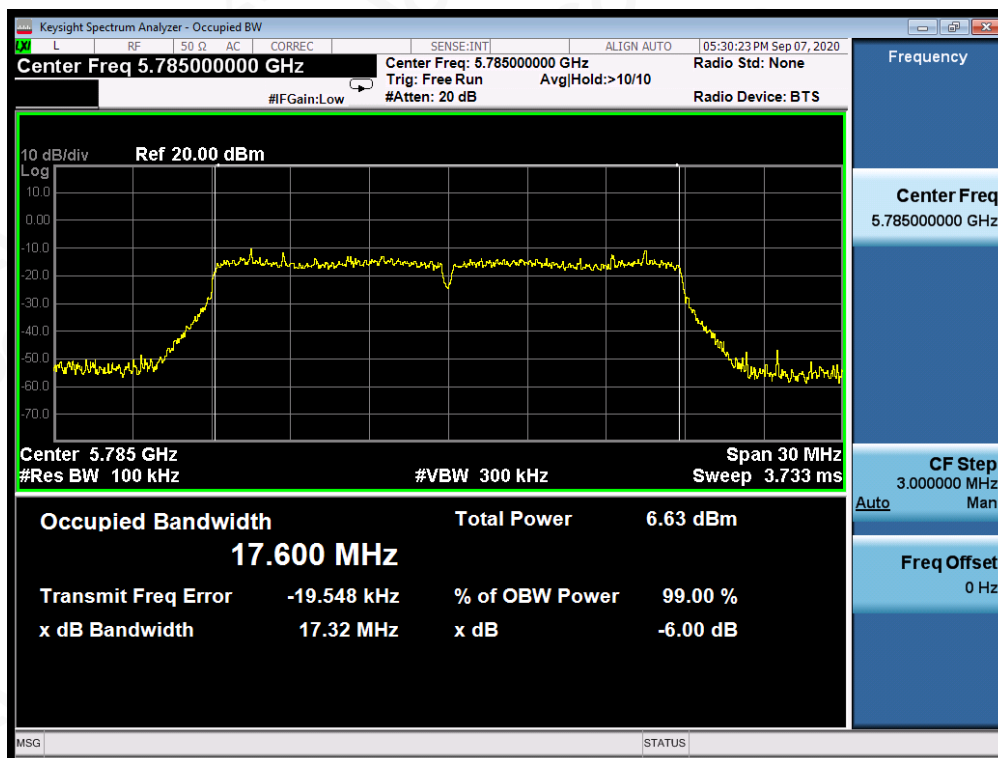
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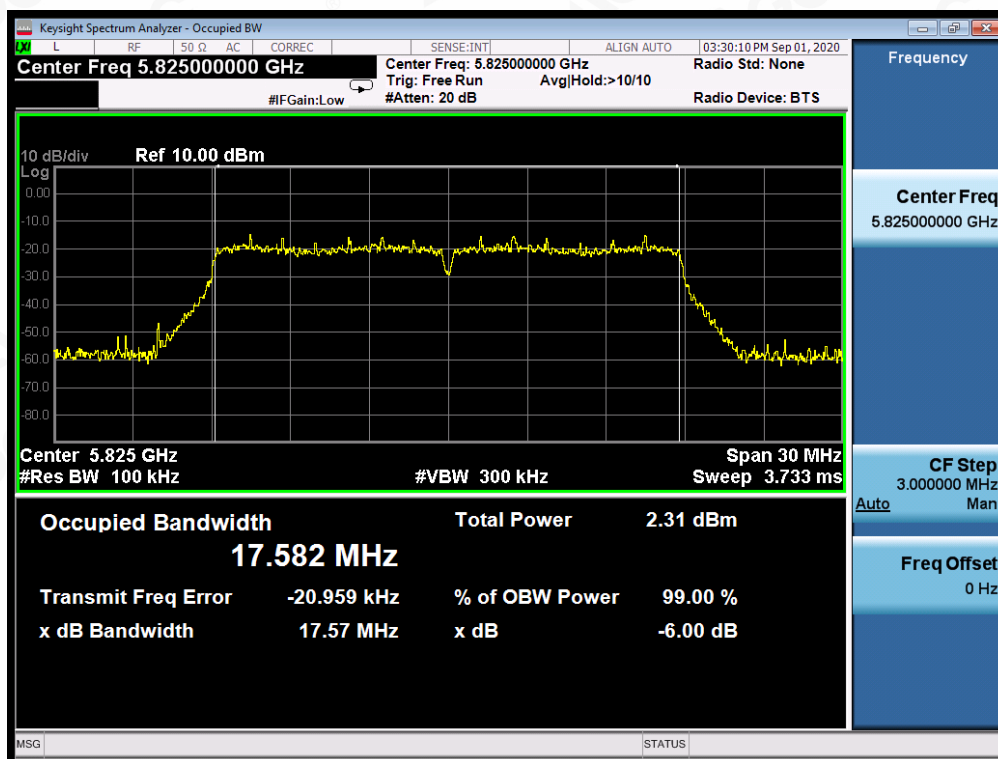
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TEST PLOT OF BANDWIDTH FOR 5785MHz



TEST PLOT OF BANDWIDTH FOR 5825MHz



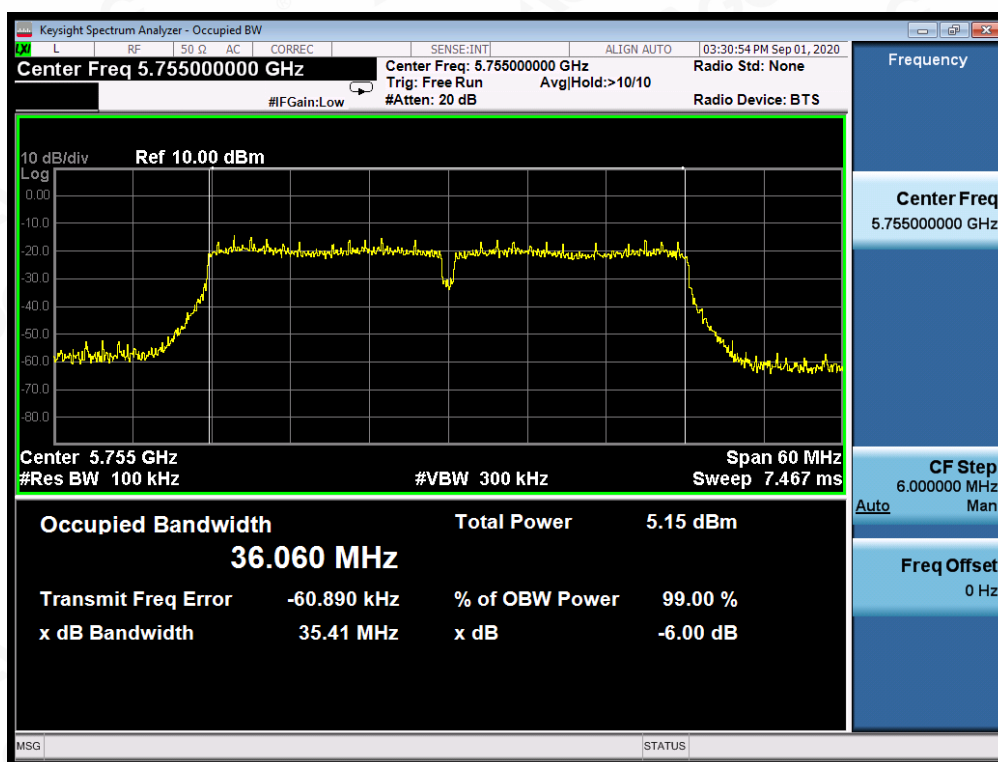
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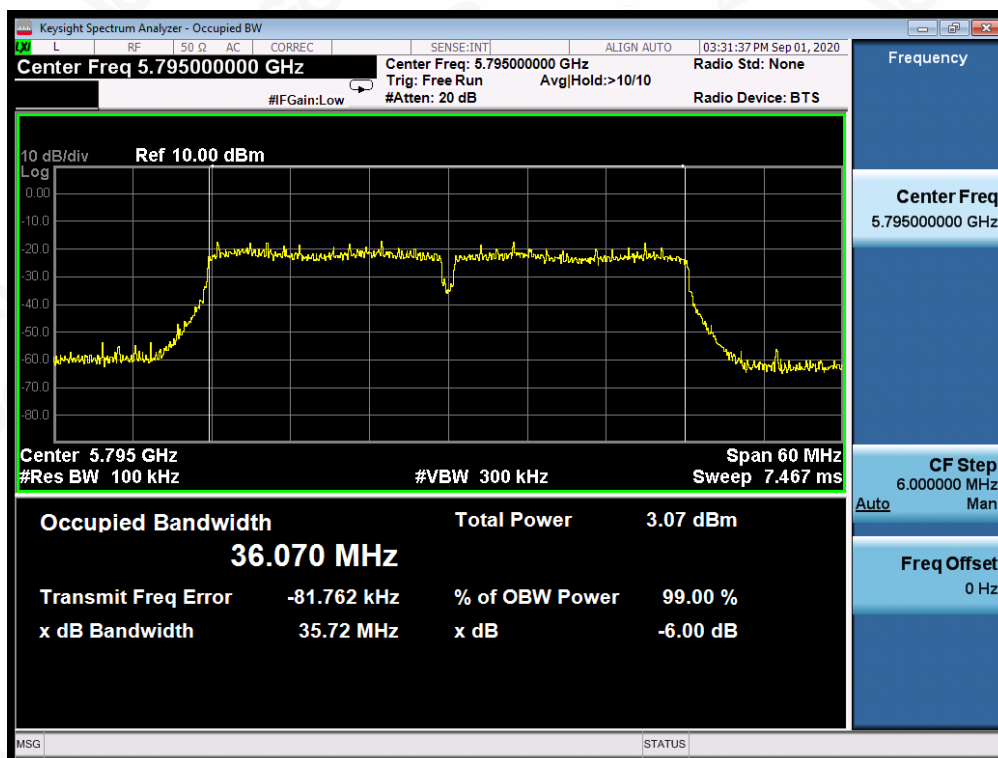


802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHz



TEST PLOT OF BANDWIDTH FOR 5795MHz



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9. EMISSION BANDWIDTH

9.1. MEASUREMENT PROCEDURE

9.1.1. -26dB Bandwidth MEASUREMENT PROCEDURE

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

9.1.2. 99.00% Occupied Bandwidth MEASUREMENT PROCEDURE

- Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency = Channel center frequency

Span = 2 x emission bandwidth

RBW = 1% to 5% of the emission bandwidth

VBW > 3 x RBW

Sweep time = auto couple

Detector = Peak

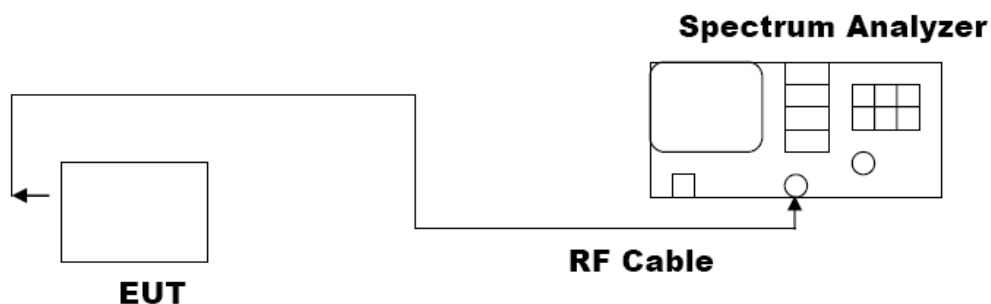
Trace mode = max hold

- Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.

- Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is 1% to 5%.

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

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



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9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5180MHz	19.54	16.568	PASS
	5200MHz	19.60	16.584	PASS
	5240MHz	19.53	16.567	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5180MHz	19.67	19.622	PASS
	5200MHz	19.98	17.609	PASS
	5240MHz	19.82	17.621	PASS

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LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5190MHz	38.65	36.214	PASS
	5230MHz	40.16	36.201	PASS

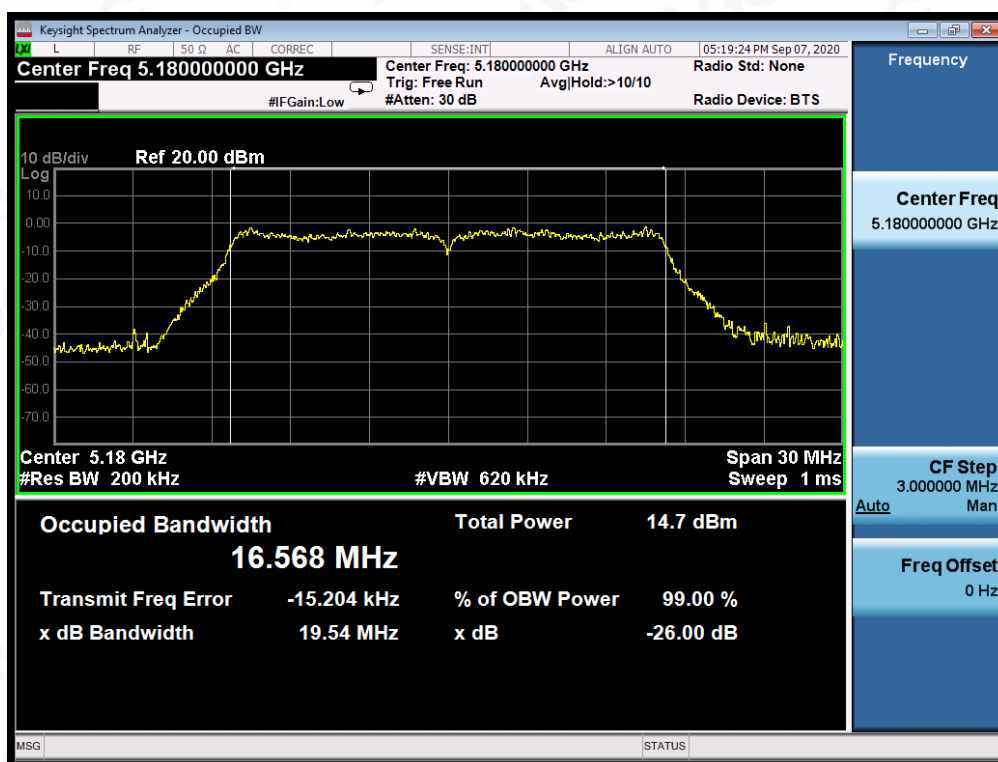
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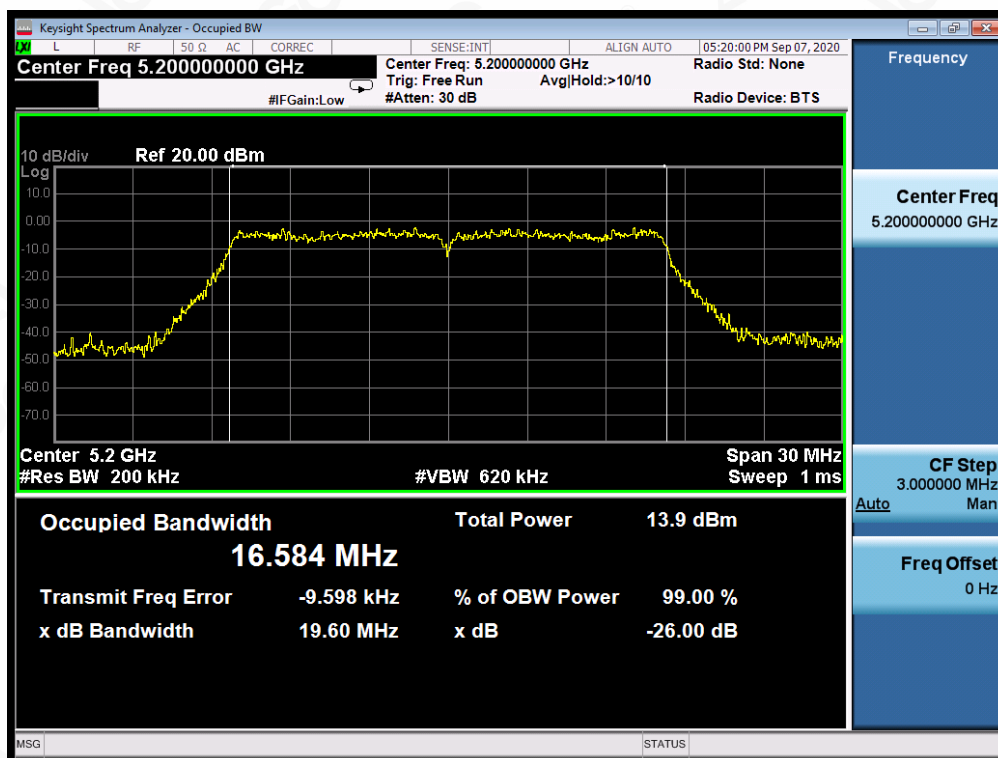


802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz

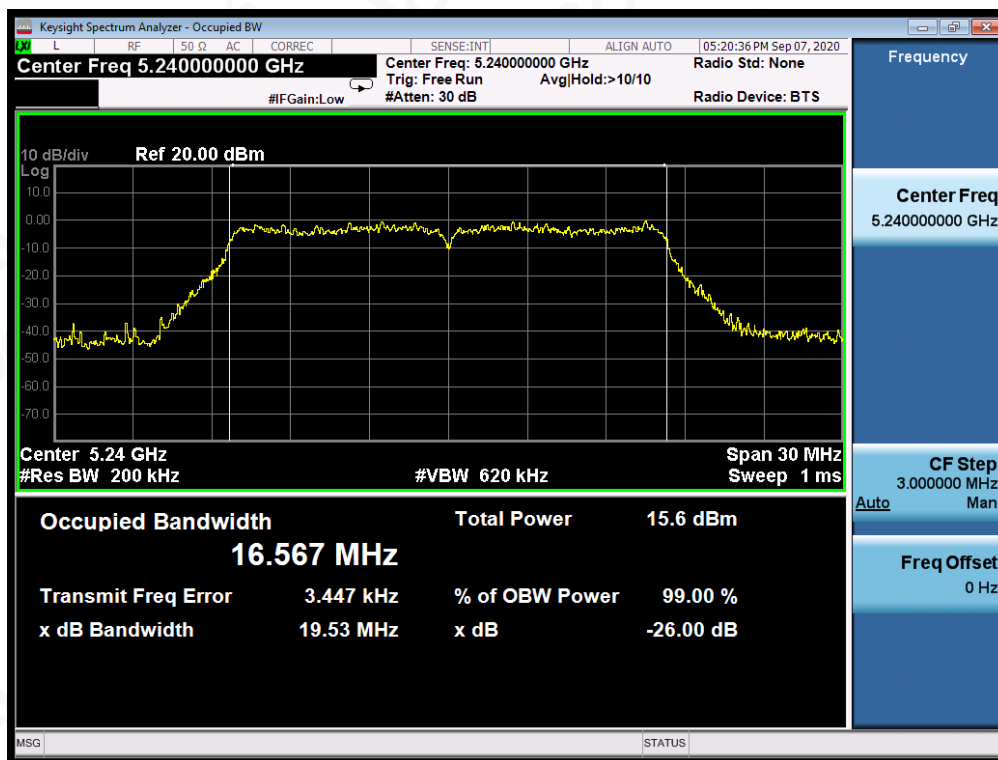


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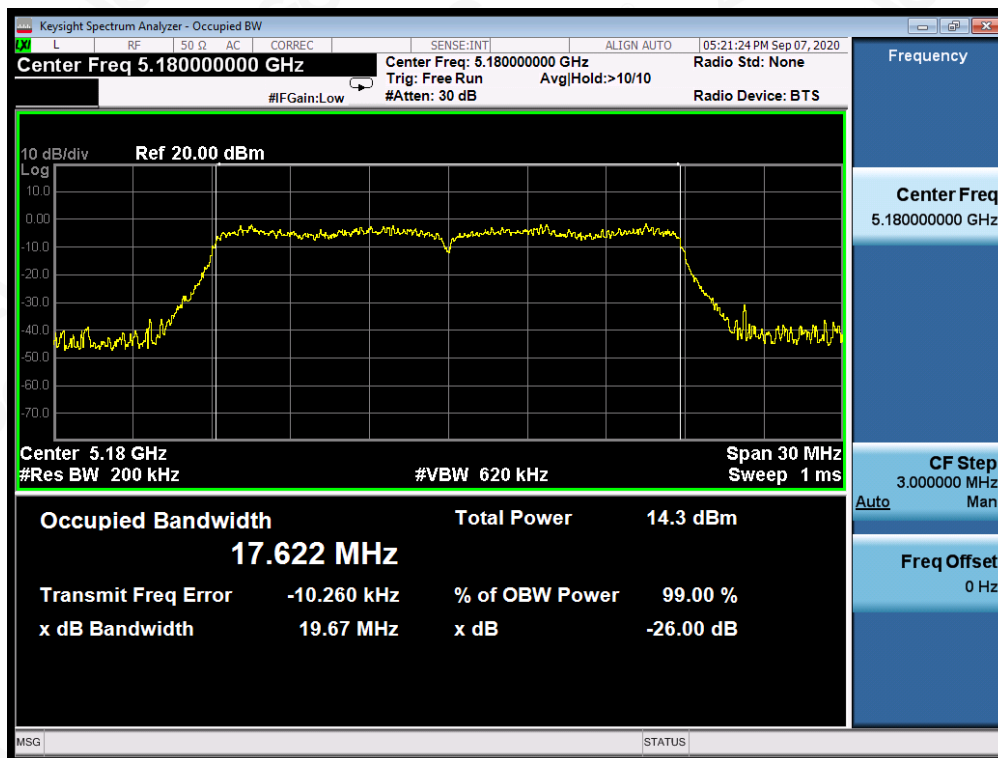


TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



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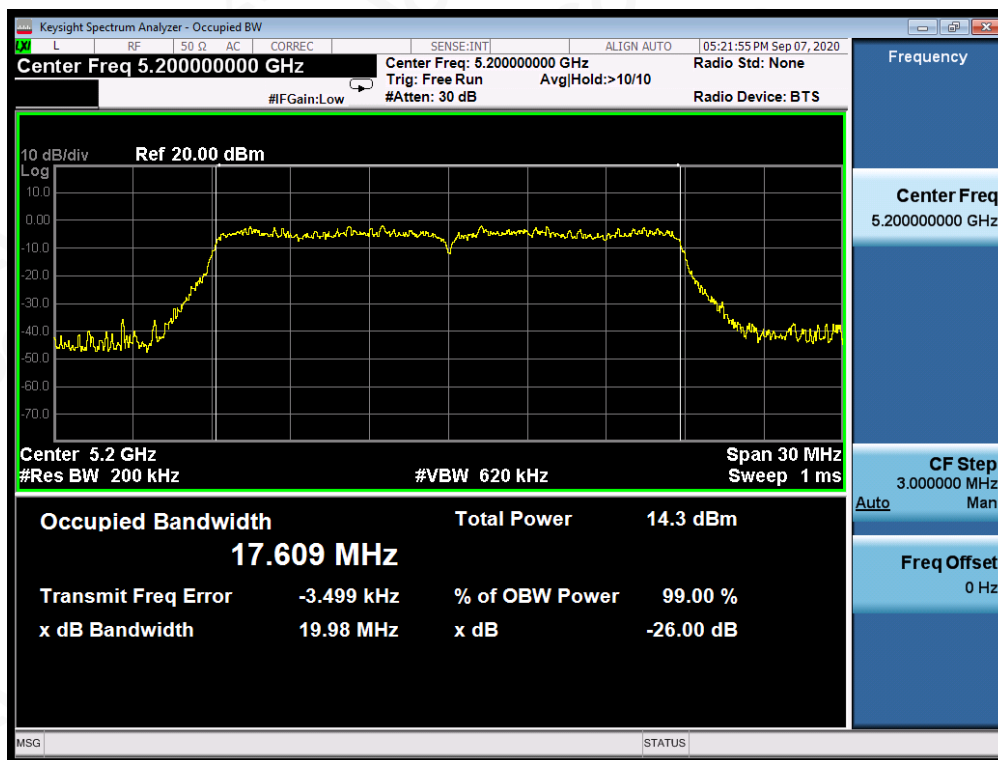
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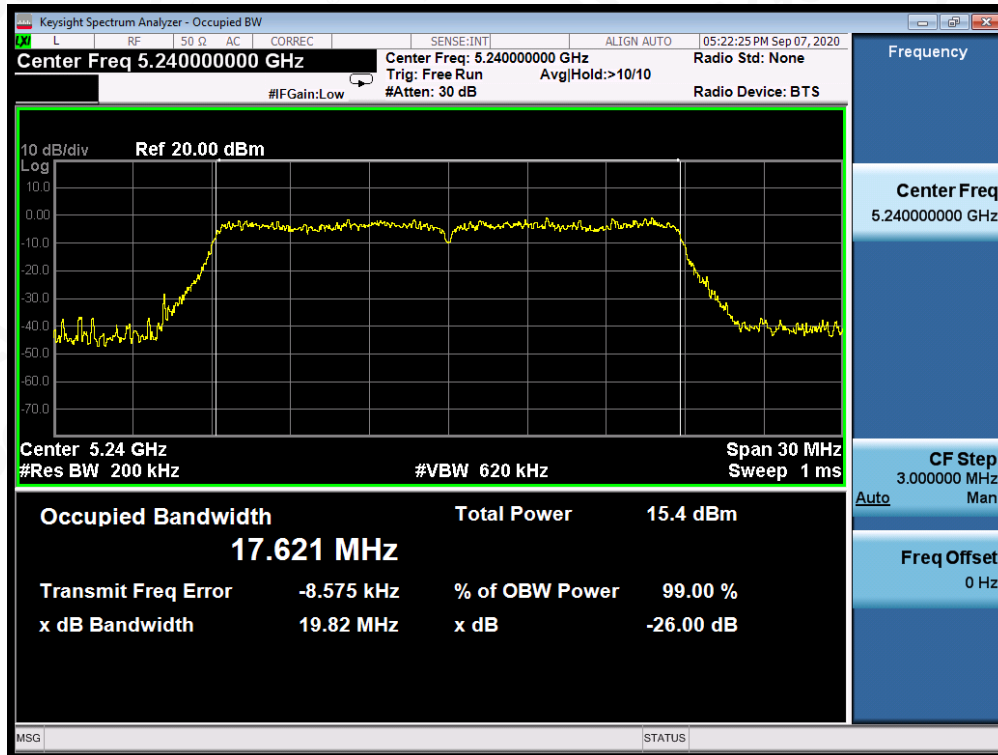
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TEST PLOT OF BANDWIDTH FOR 5200MHz



TEST PLOT OF BANDWIDTH FOR 5240MHz



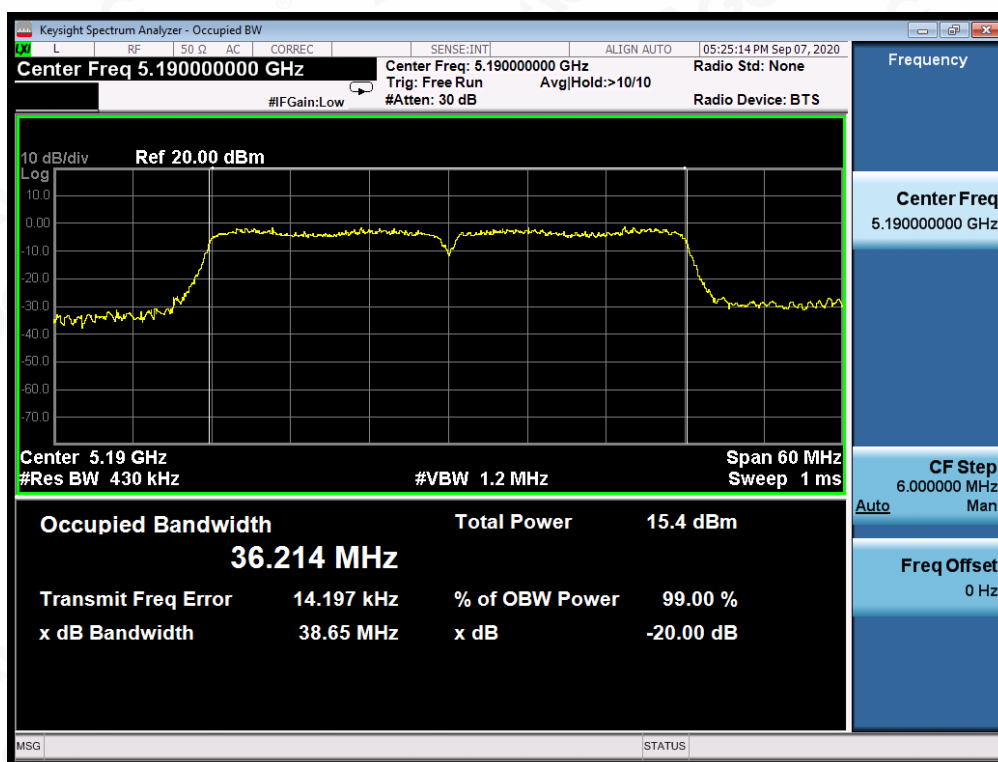
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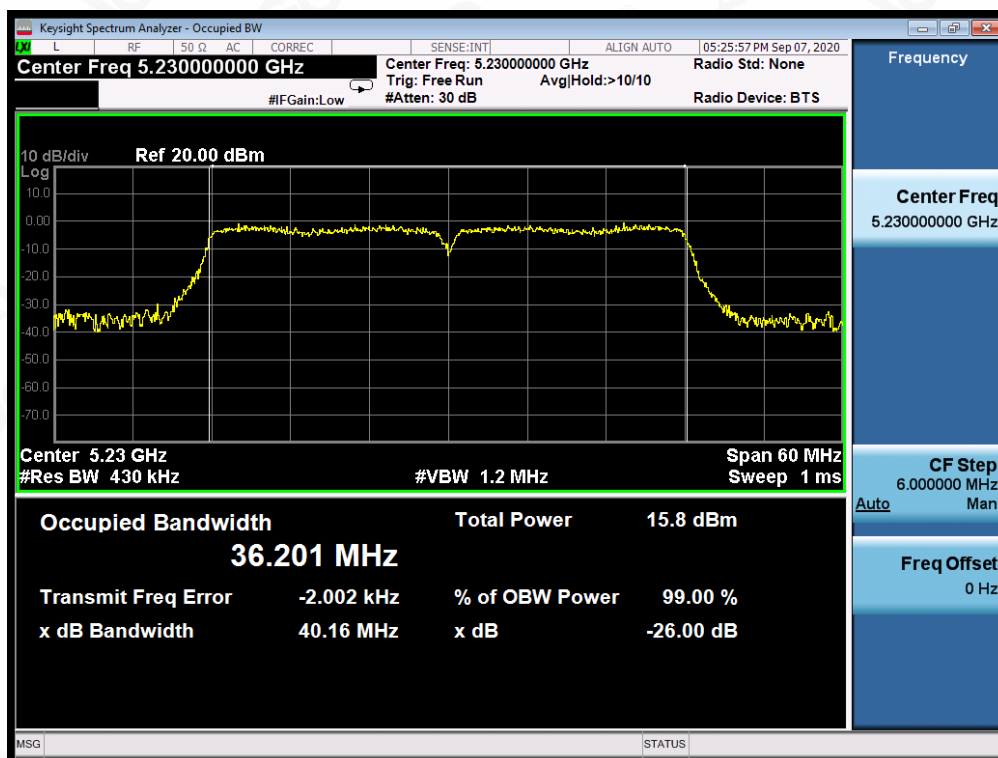


802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5190MHz



TEST PLOT OF BANDWIDTH FOR 5230MHz



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10. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	-2.502	11	Pass
5200	-2.522	11	Pass
5240	-1.143	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-13.818	30	Pass
5785	-12.656	30	Pass
5825	-16.930	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION			
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	-2.437	11	Pass
5200	-2.384	11	Pass
5240	-1.322	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-13.155	30	Pass
5785	-12.802	30	Pass
5825	-17.583	30	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION			
Frequency (MHz)	Power density (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5190	-6.361	11	Pass
5230	-4.162	11	Pass
Frequency (MHz)	Power density (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5755	-16.447	30	Pass
5795	-18.047	30	Pass

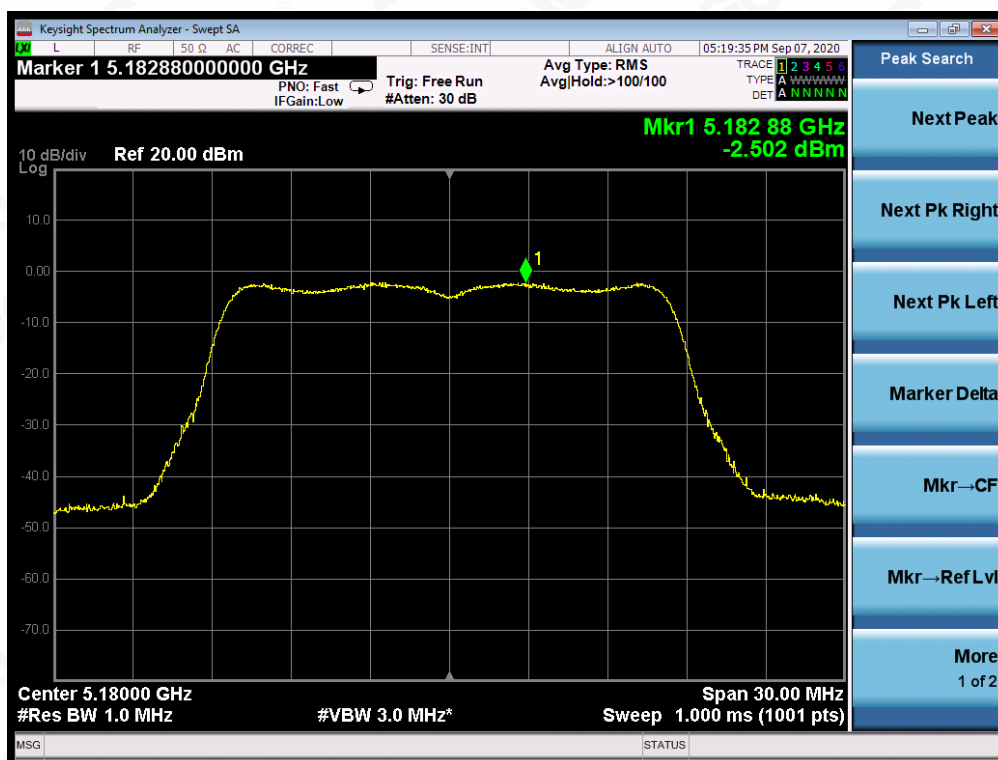
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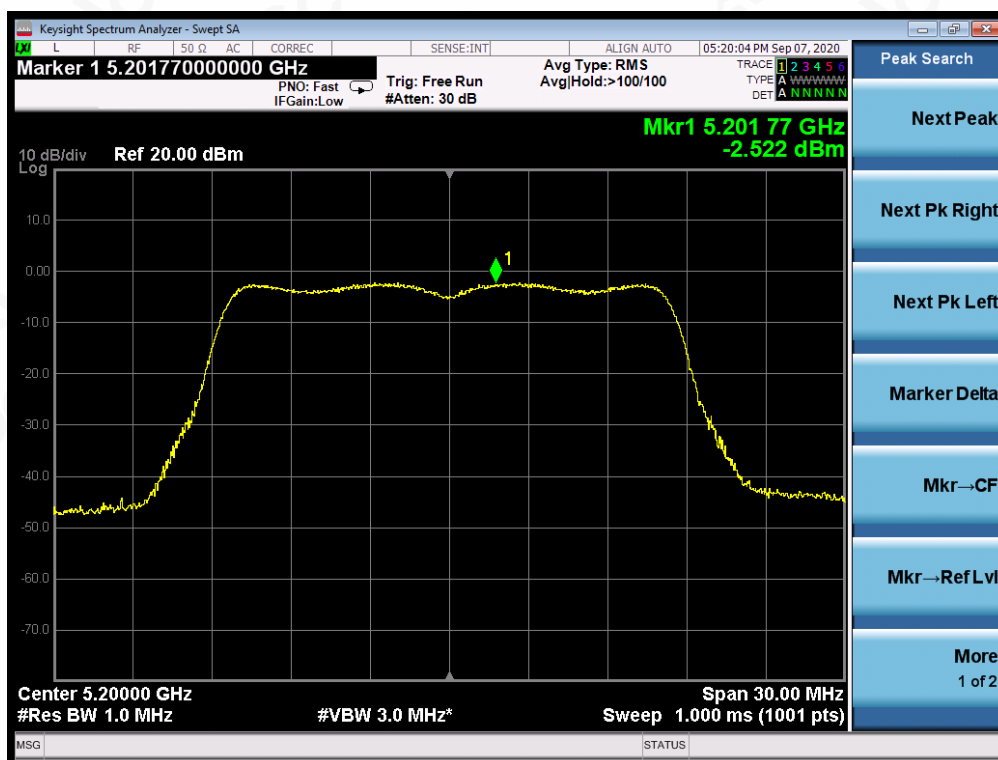


802.11a20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz

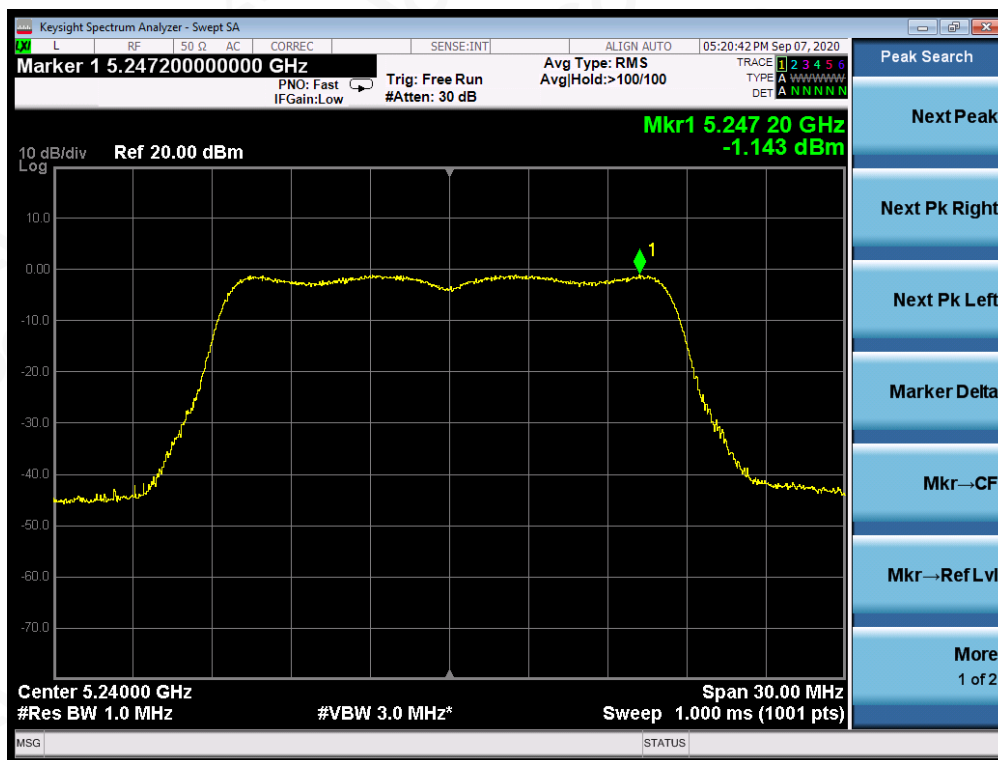


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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

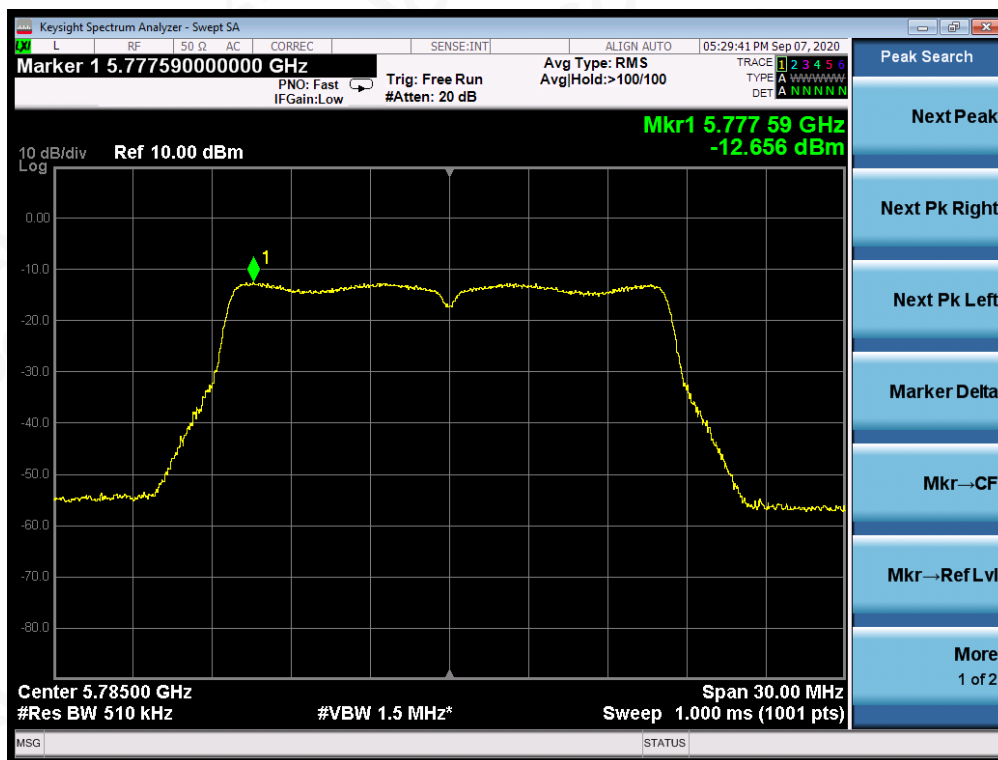


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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



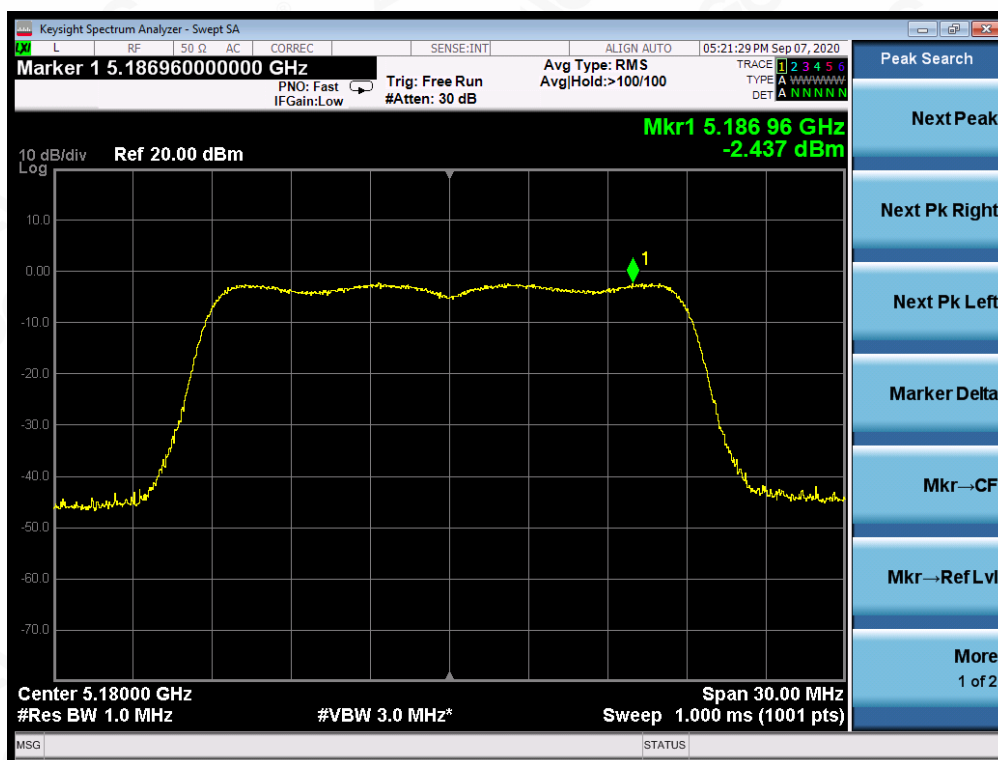
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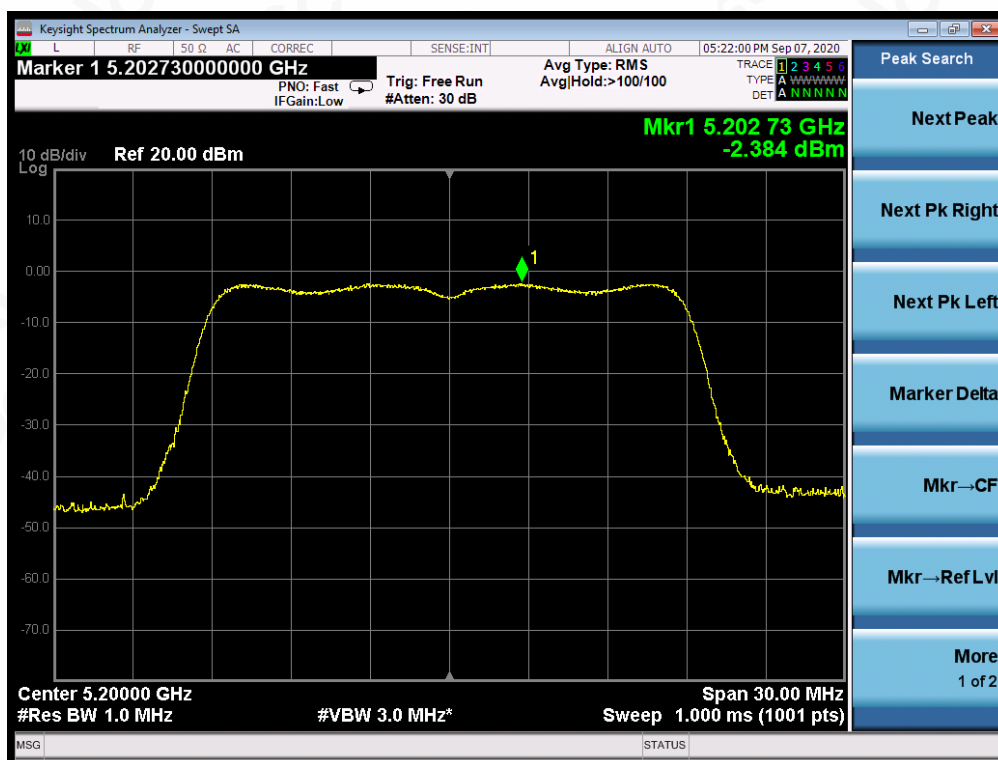


802.11n20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz

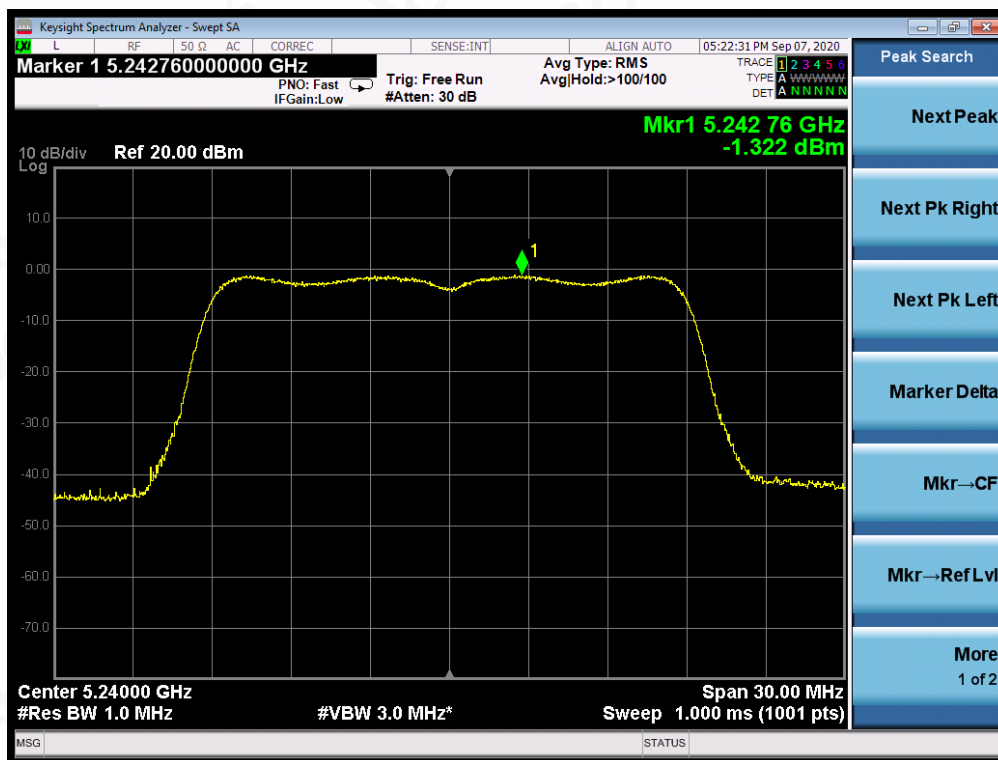


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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

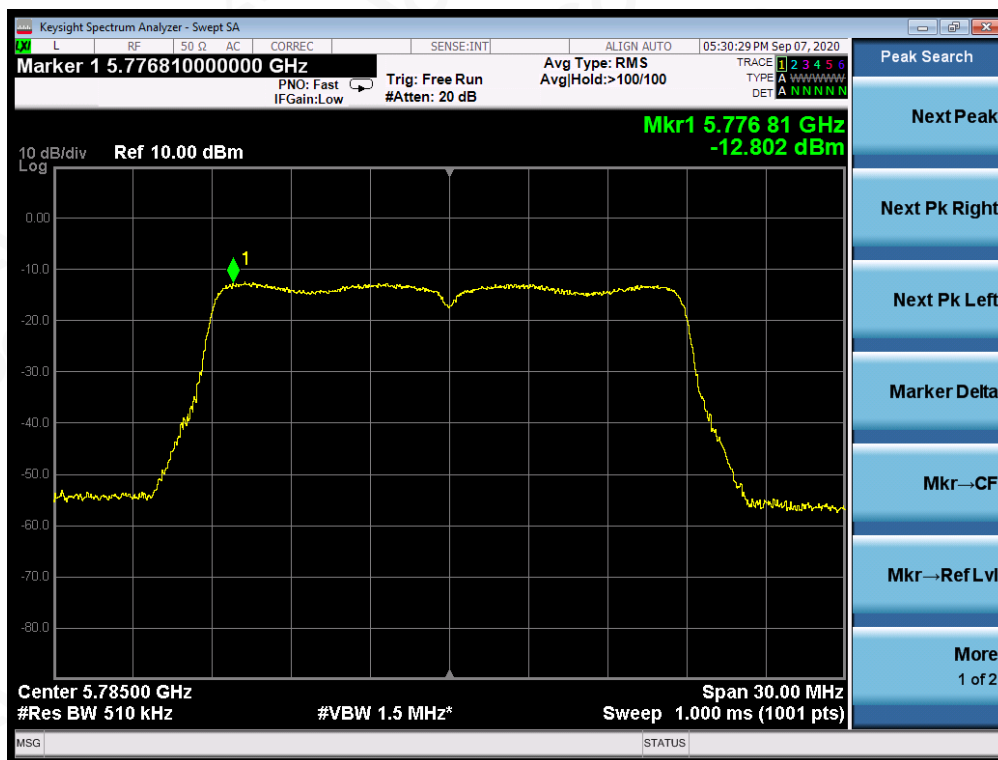


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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



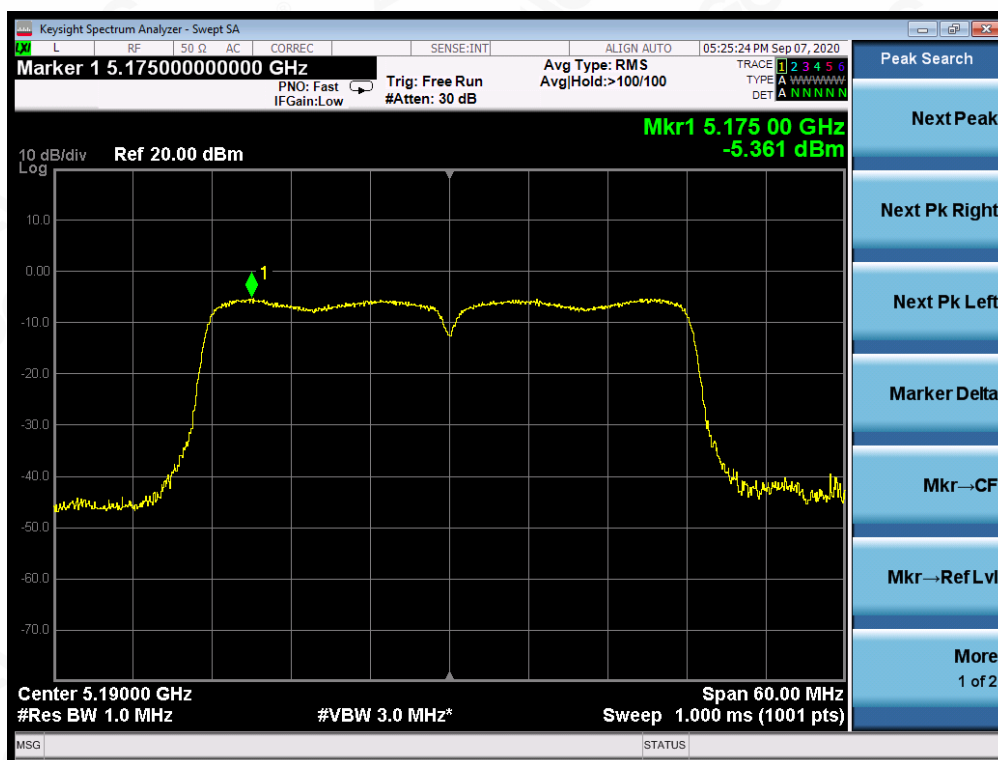
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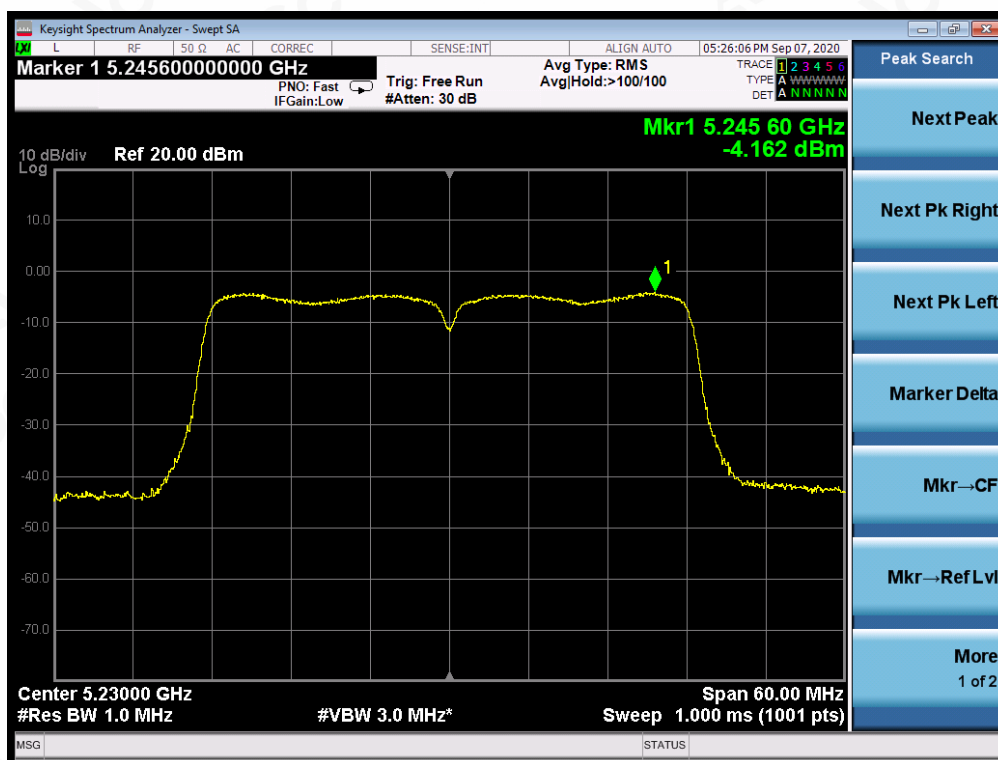


802.11n40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz

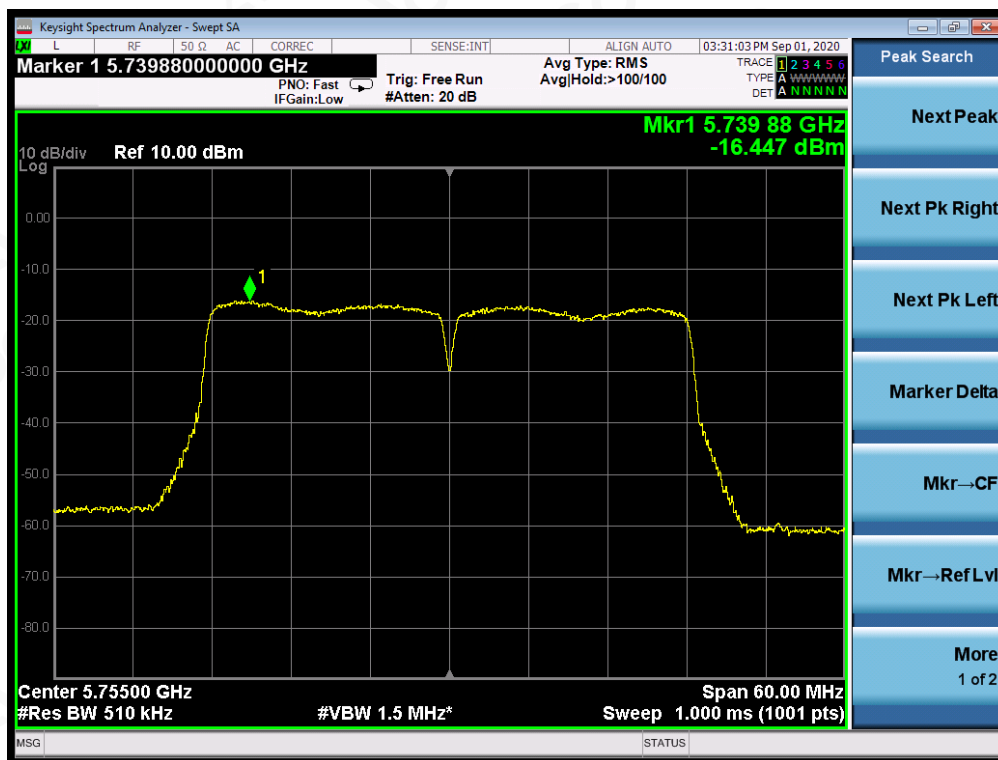


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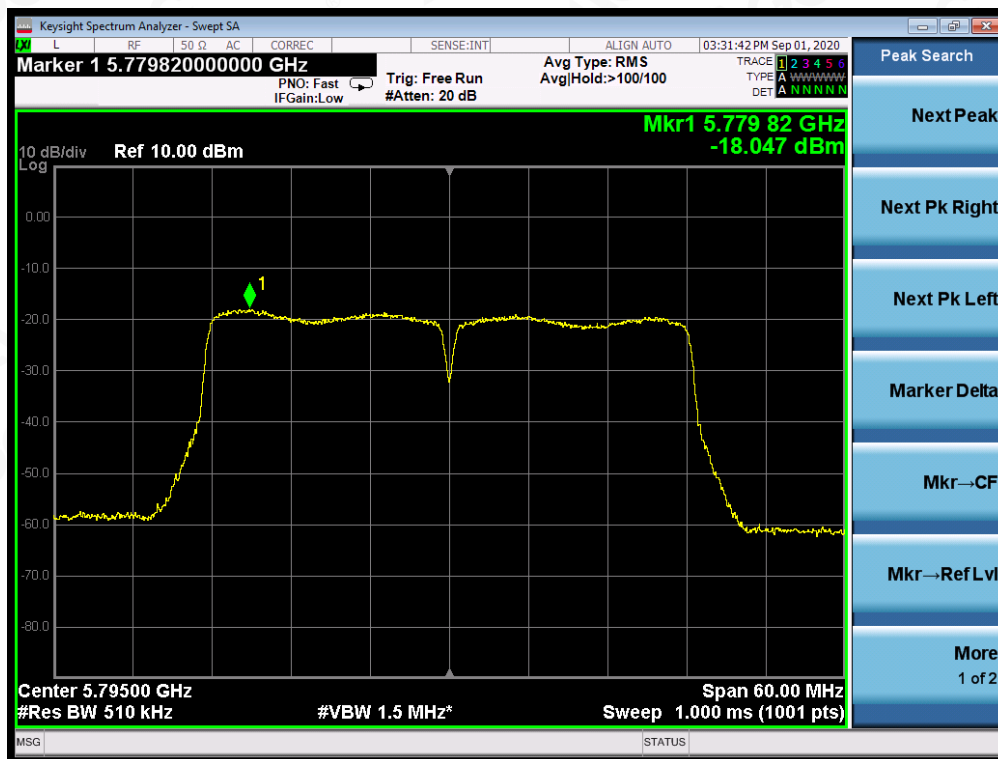
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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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11. CONDUCTED SPURIOUS EMISSION

11.1. 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.

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

The same as described in section 8.2.

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

11.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test channel	Criteria
-27dBm/MHz	5150MHz-5250MHz	PASS
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

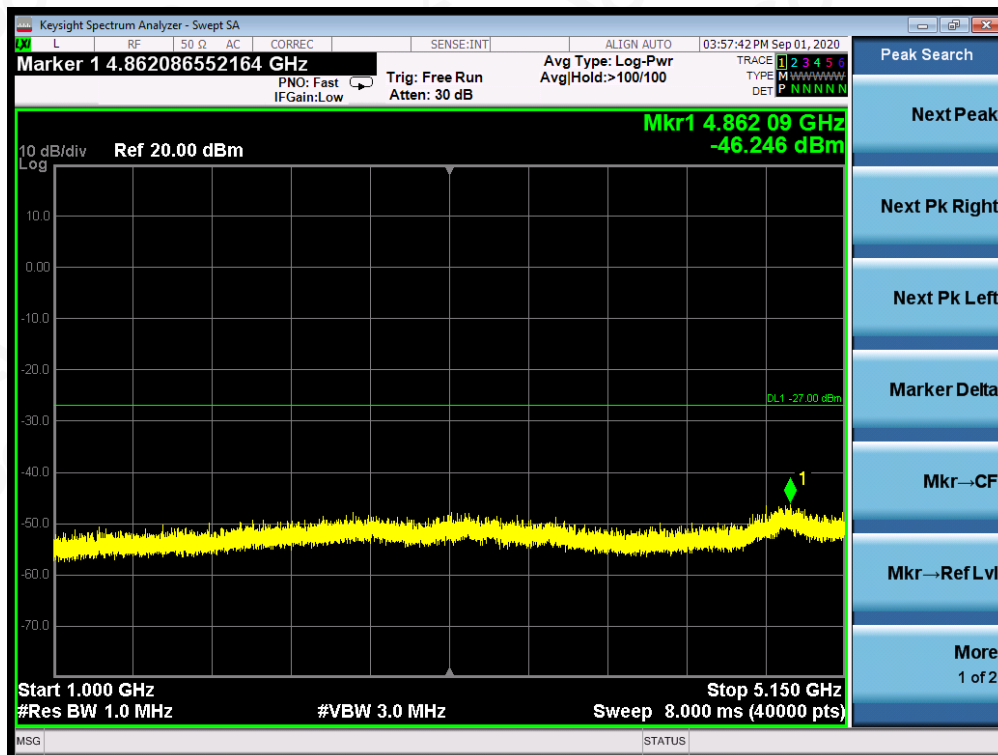
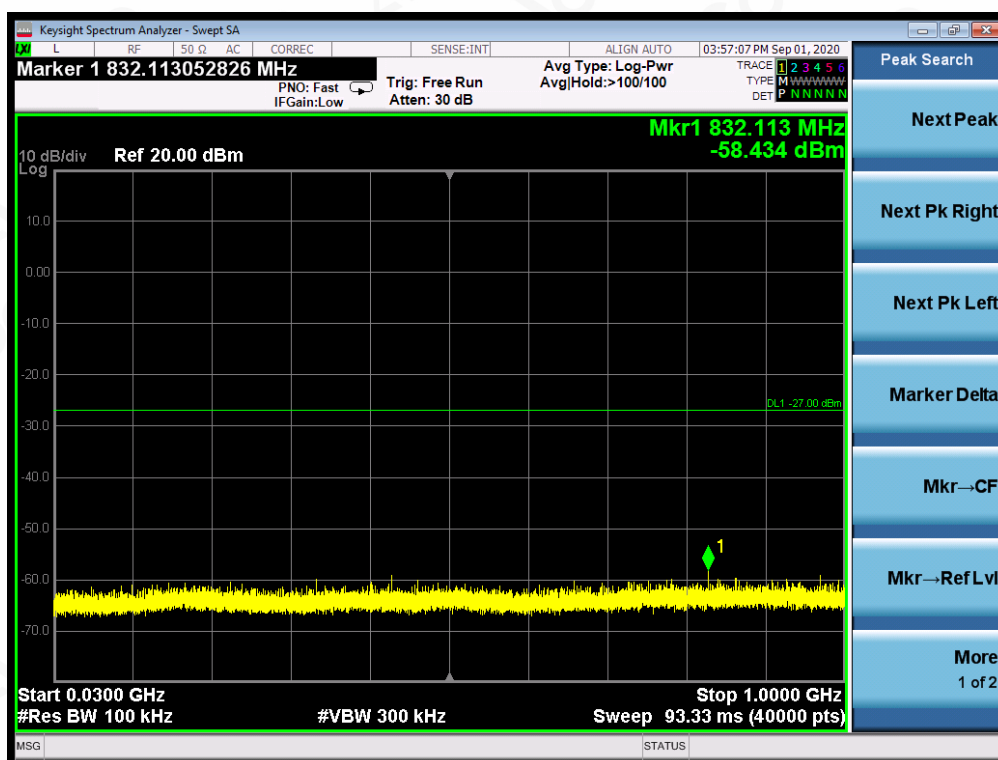
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FOR 802.11A20 MODULATION

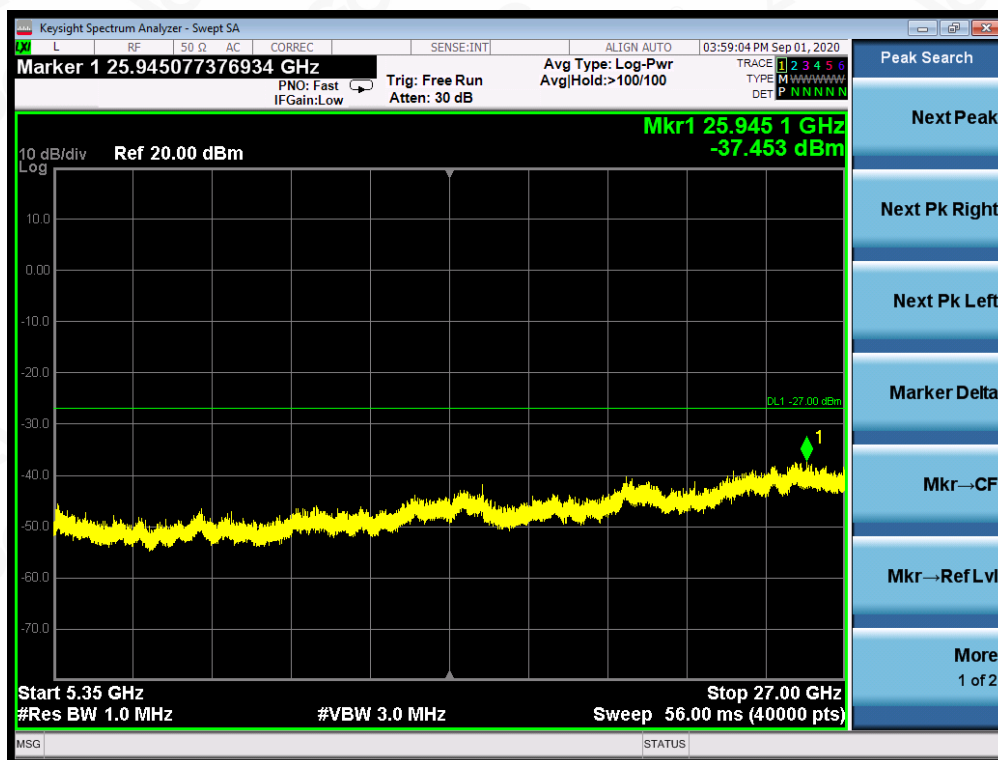
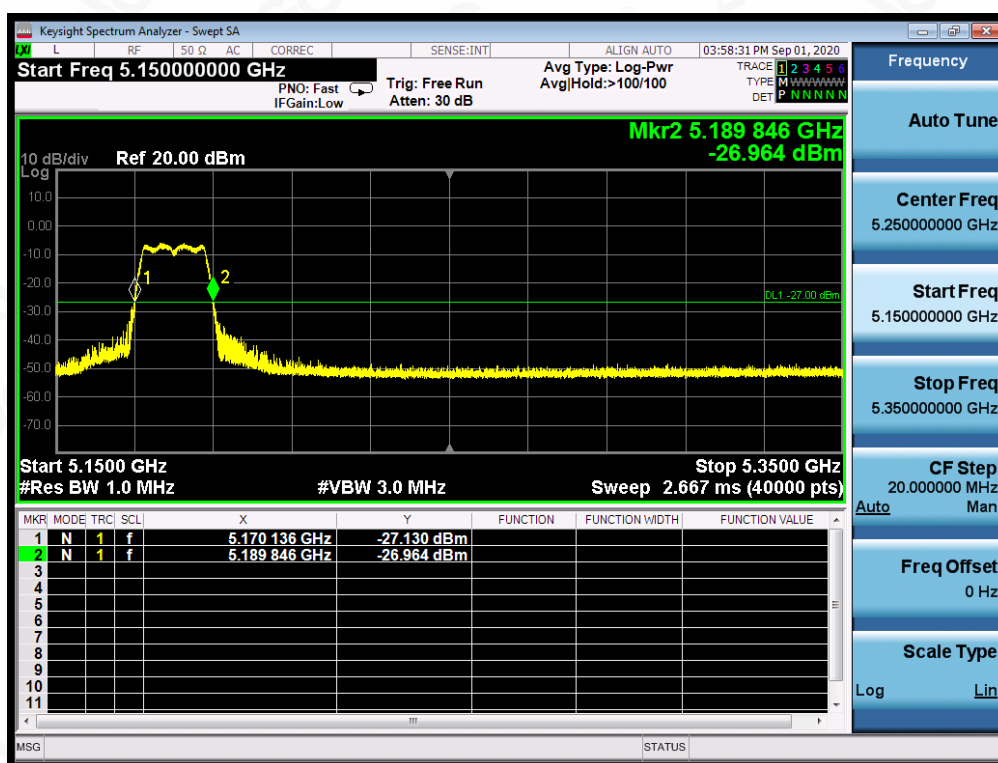
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz



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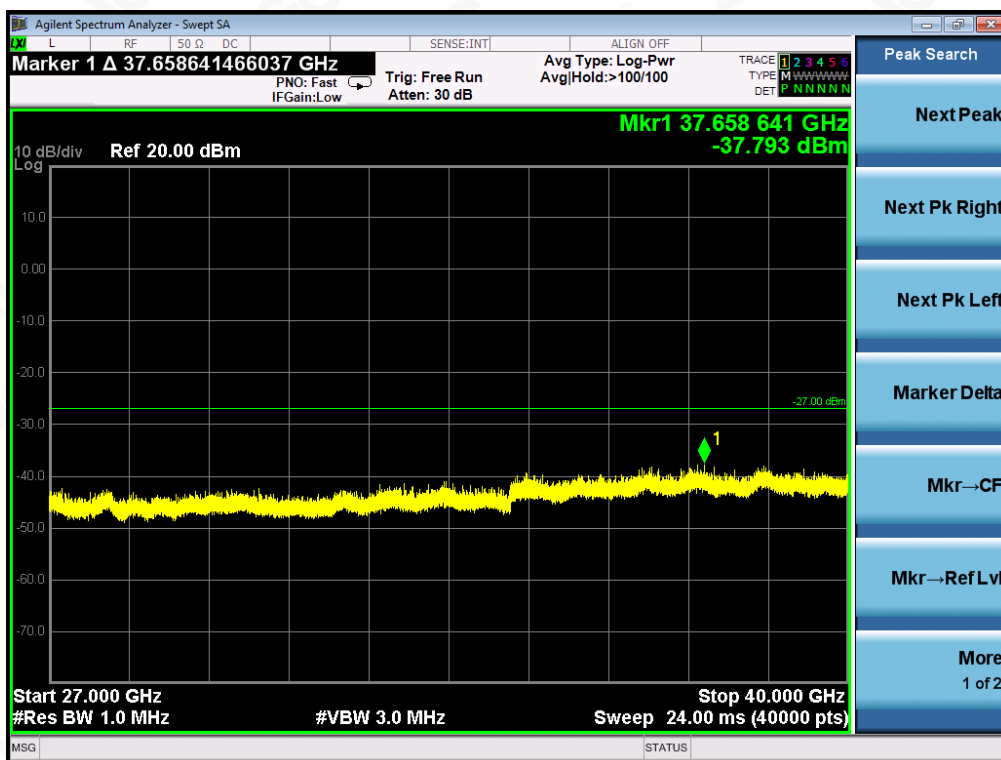




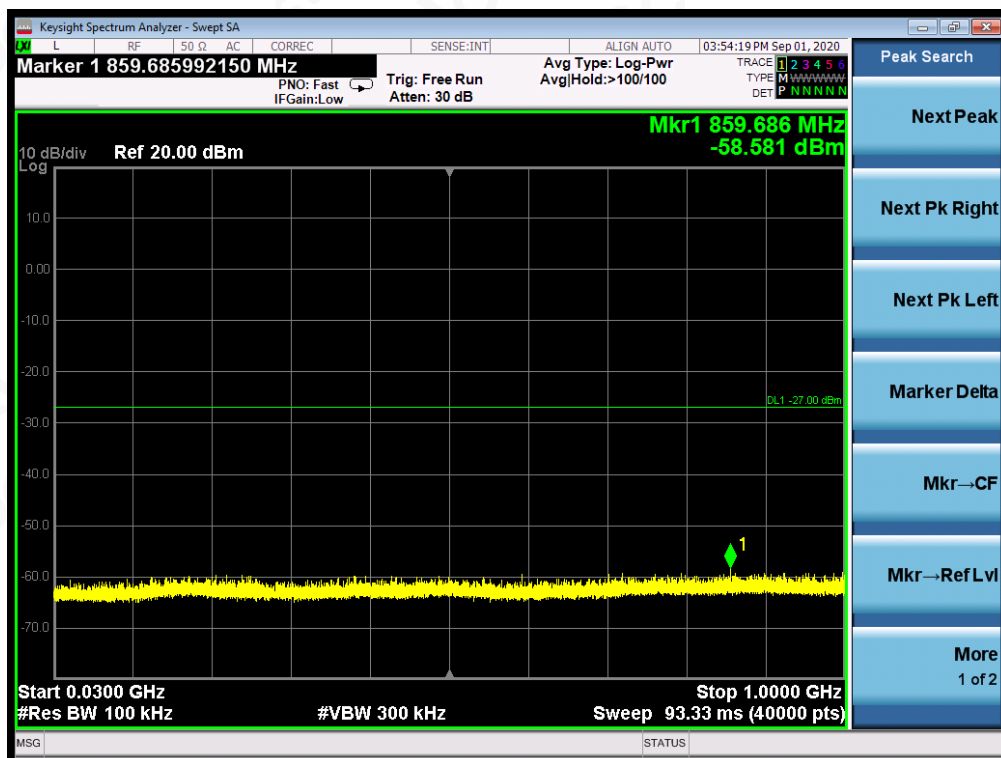
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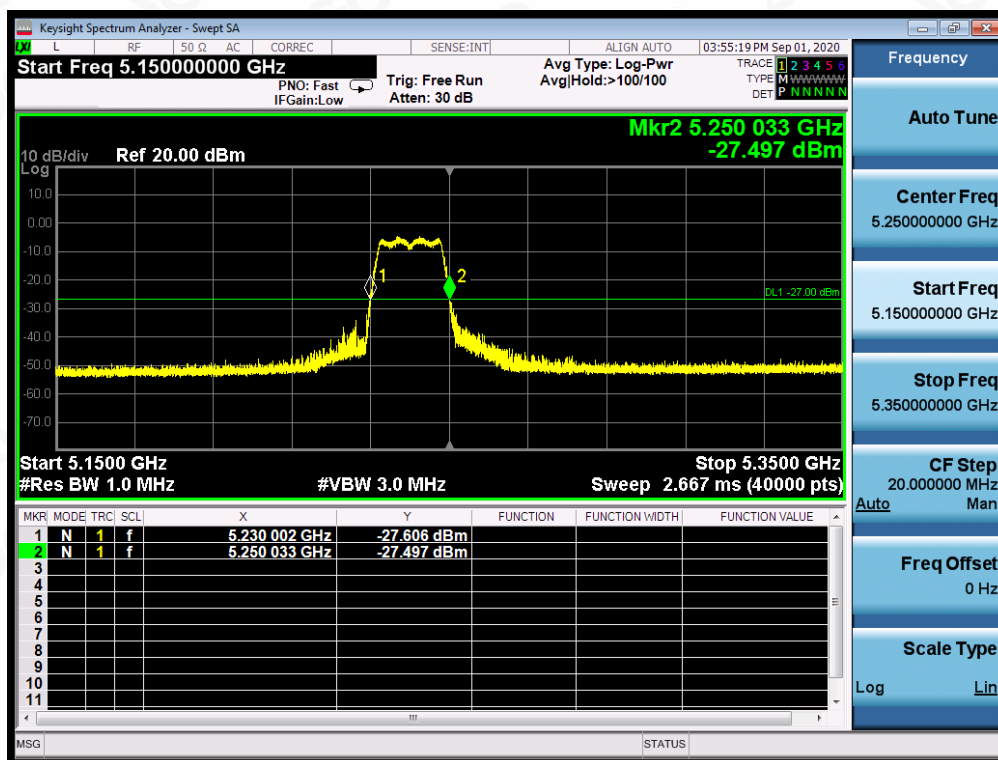
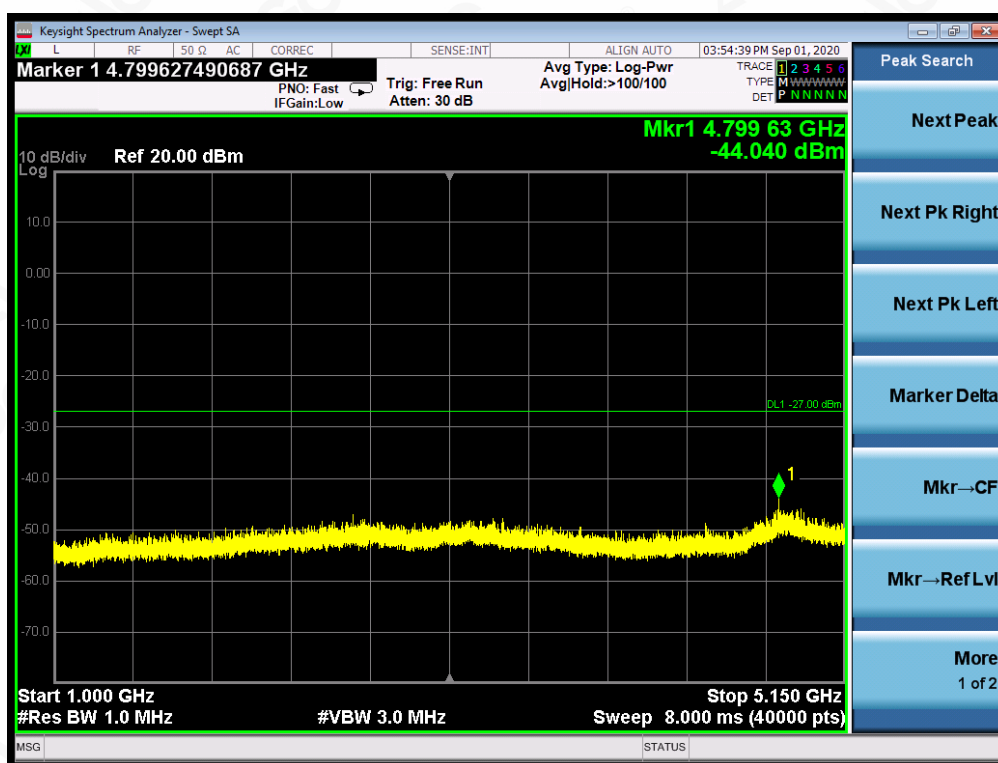
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz



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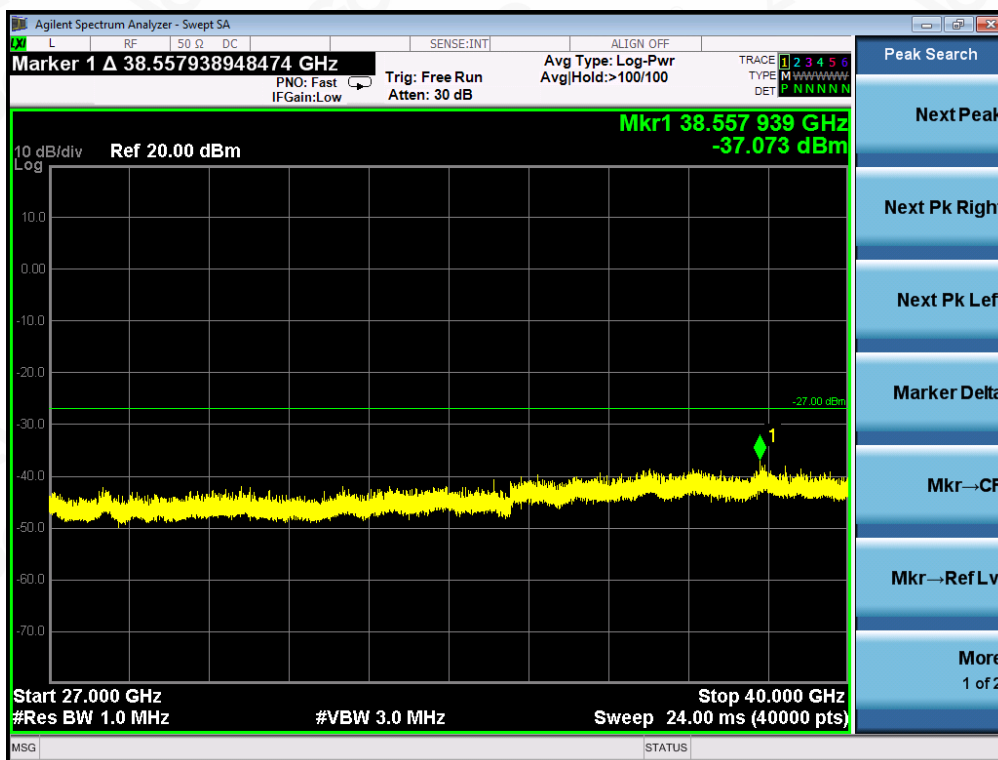
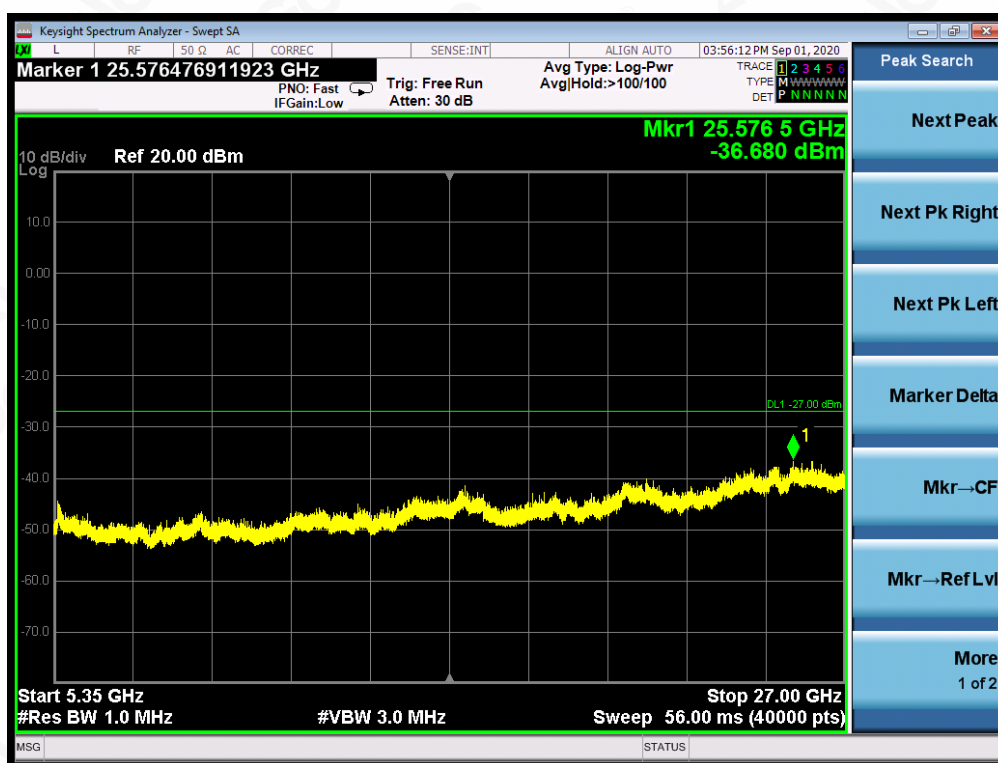




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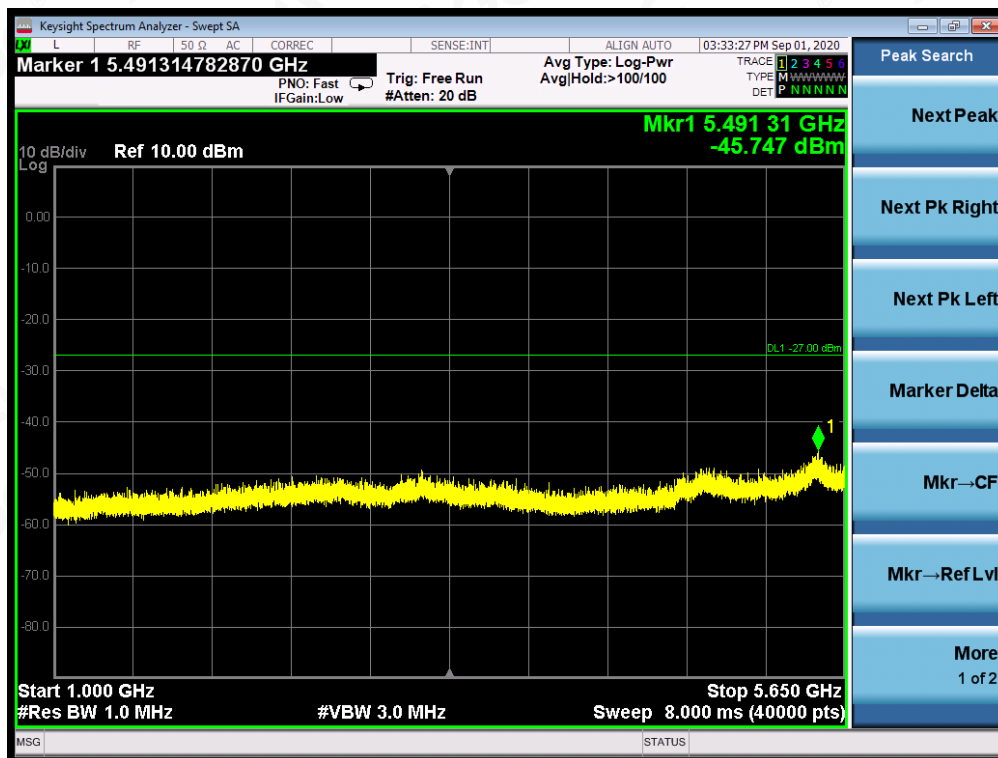
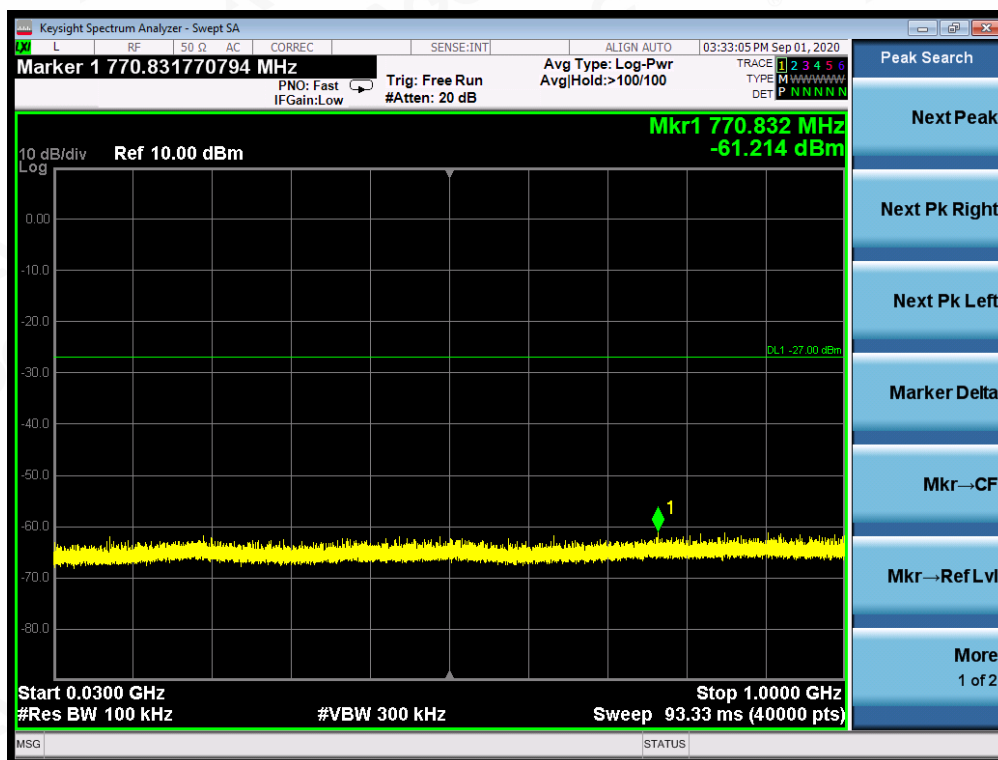


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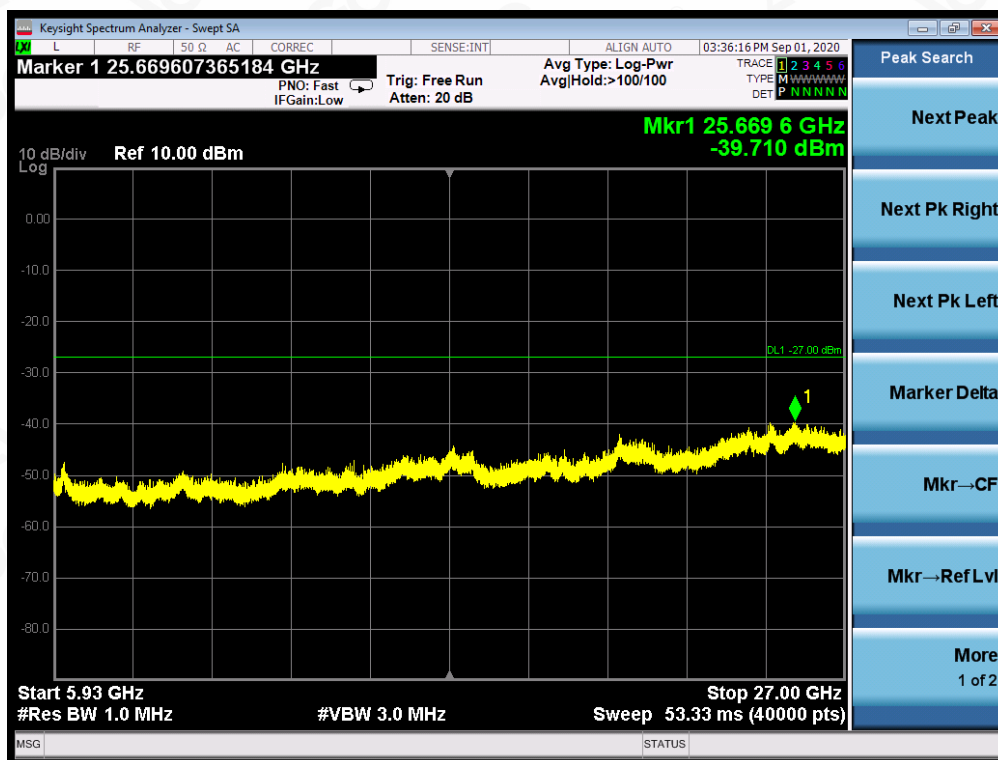
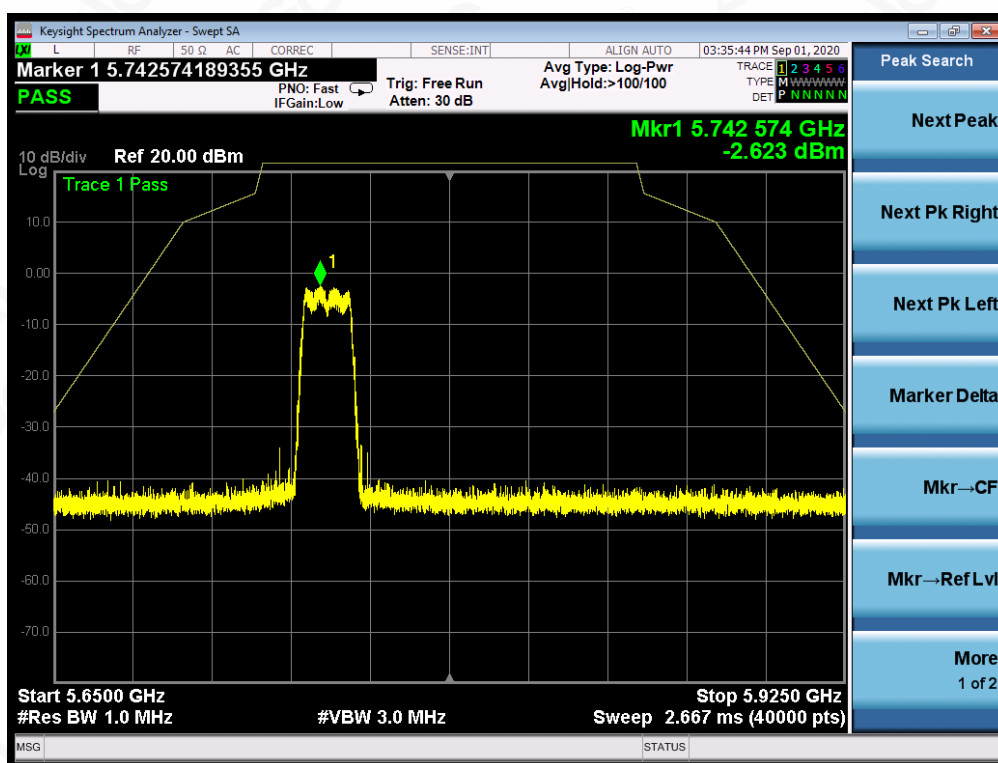
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz



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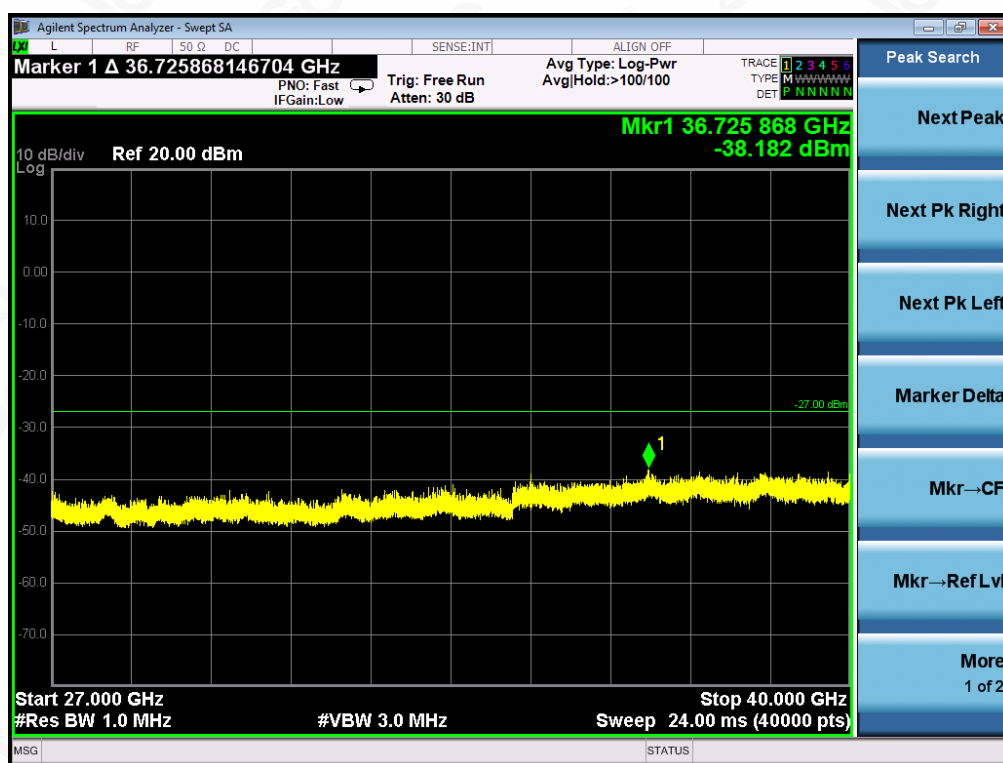




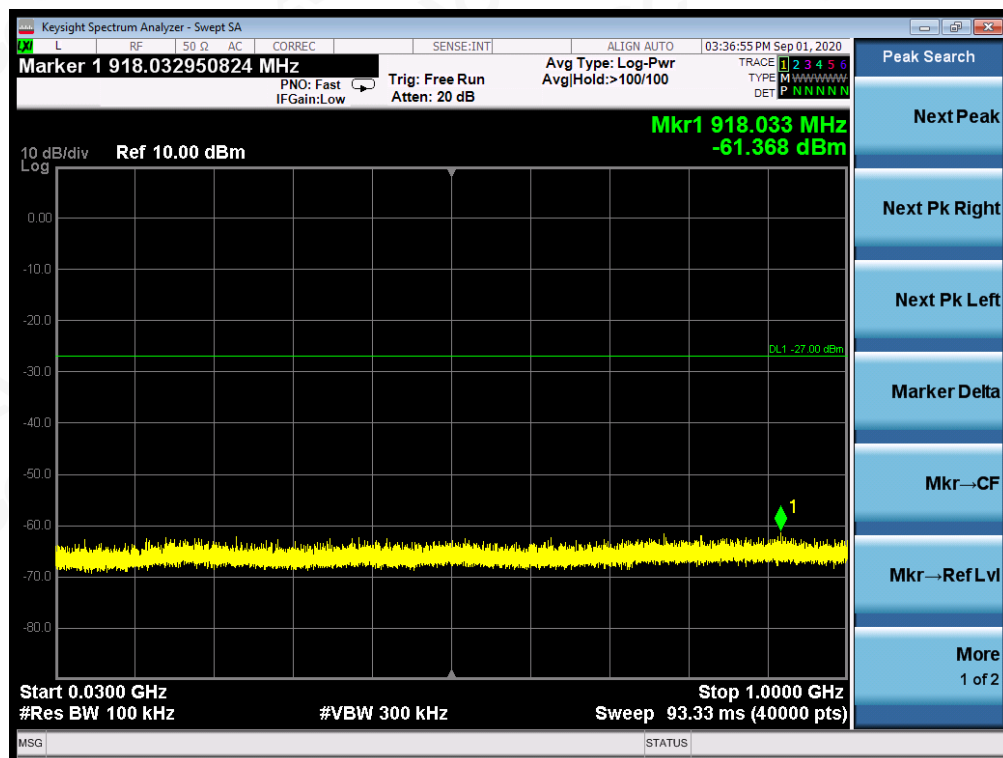
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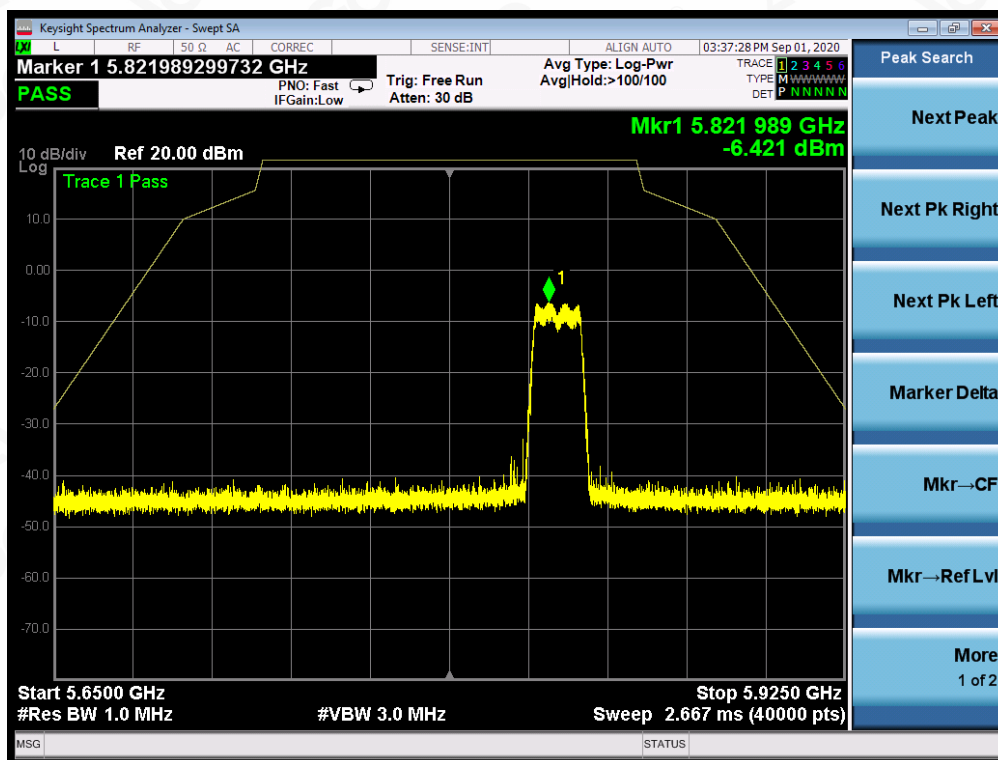
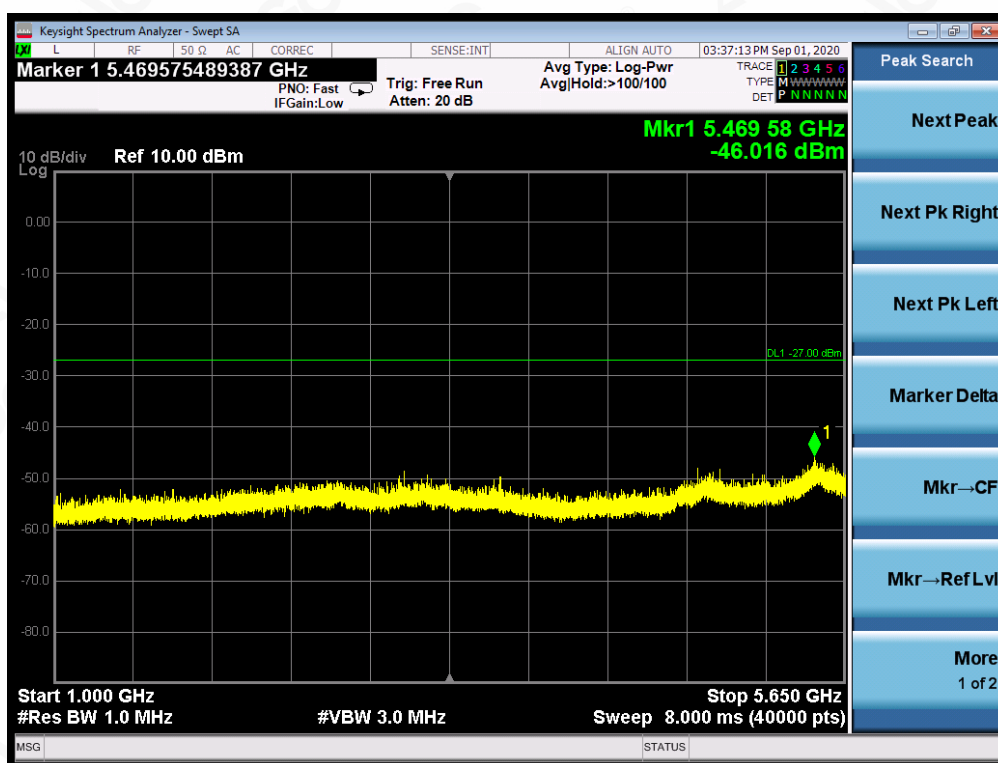
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz



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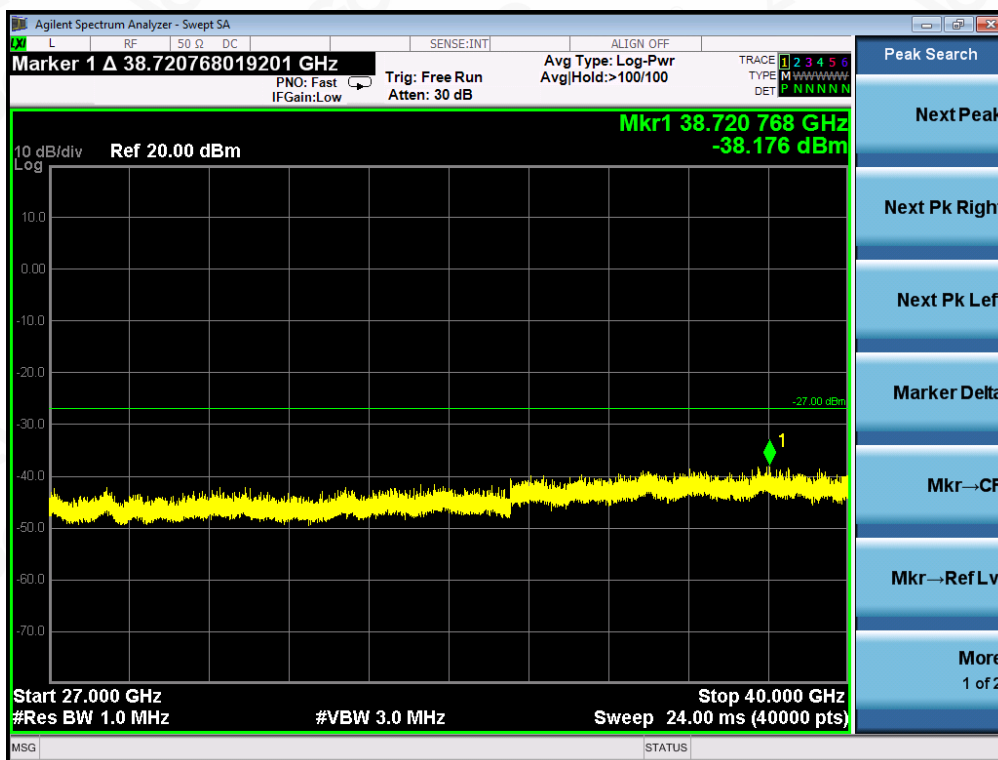
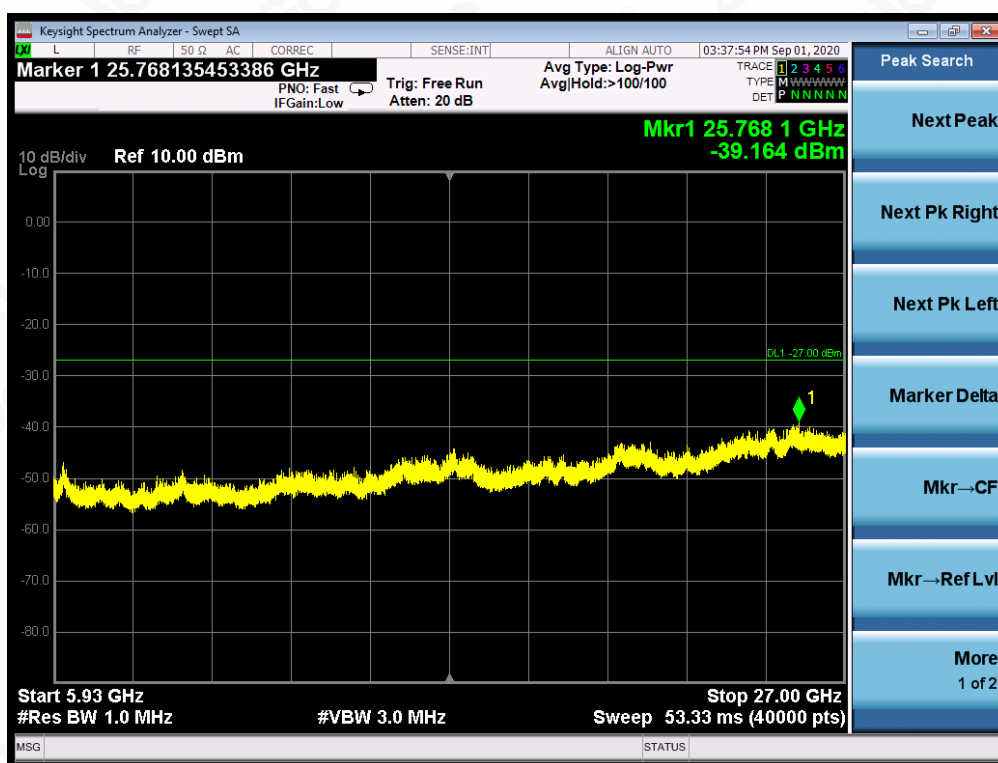




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