

TEST PLOT OF BANDWIDTH FOR 5230MHz

802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5210MHz



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10. MAXIMUM CONDUCTED OUTPUT 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

Frequency (MHz)	Power d (dBm/	•	Applicable Limits (dBm)	Pass or Fai
5180	-2.1	83	11	Pass
5200	-1.9	86	O 11	Pass
5240	-2.1	77	11	Pass
Frequency (MHz)	Power density (dBm/K510Hz)	Power density (dBm/K500Hz)	Applicable Limits (dBm/K500Hz)	Pass or Fai
5745	-2.997	-3.083	30	Pass
5785	-3.900	-3.986	30	Pass
5825	-4.118	-4.204	30	Pass

LIN	IITS AND MEASUREMEI	NT RESULT FOR 802	2.11N20 MODULATION	N
Frequency (MHz)	Power d (dBm/	•	Applicable Limits (dBm)	Pass or Fail
5180	-2.5	64	11	Pass
5200	-2.6	94	11	Pass
5240	-2.7	-2.725 11		Pass
Frequency (MHz)	Power density (dBm/K510Hz)	Power density (dBm/K500Hz)	Applicable Limits (dBm/K500Hz)	Pass or Fail
5745	-4.082	-4.168	30	Pass
5785	-4.665	-4.751	30	Pass
5825	-4.200	-4.286	30	Pass

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Frequency (MHz)	Power d (dBm/	•	Applicable Limits (dBm)	Pass or Fai	
5190	-6.6	97	11	Pass	
5230	-6.2	36	11	Pass	
Frequency (MHz)	Power density (dBm/K510Hz)	Power density (dBm/K500Hz)	Applicable Limits (dBm/K500Hz)	Pass or Fail	
5755	-7.052	-7.138	30	Pass	
5795	-8.653	-8.739	30	Pass	

Frequency (MHz)	Power d (dBm/	•	Applicable Limits (dBm)	Pass or Fai	
5180	-2.6	-2.619		Pass	
5200	-2.9	72	11	Pass	
5240	-2.4	-2.468		Pass	
Frequency (MHz)	Power density (dBm/K510Hz)	Power density (dBm/K500Hz)	Applicable Limits (dBm/K500Hz)	Pass or Fai	
5745	-3.511	-3.597	30	Pass	
5785	-3.896	-3.982	30	Pass	
5825	-4.377	-4.463	30	Pass	

Frequency (MHz)	Power d (dBm/	•	Applicable Limits (dBm)	Pass or Fai
5190	-6.4	72	11	Pass
5230	-6.3	60	11	Pass
Frequency (MHz)	Power density (dBm/K510Hz)	Power density (dBm/K500Hz)	Applicable Limits (dBm/K500Hz)	Pass or Fai
5755	-8.455	-8.541	30	Pass
5795	-8.501	-8.587	30	Pass

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LIMIT	S AND MEASUREMEN	RESULT FOR 802.	11AC80 MODULATIO	N
Frequency (MHz)	Power de (dBm/l	•	Applicable Limits (dBm)	Pass or Fail
5210	-9.83	5	11	Pass
Frequency (MHz)	Power density (dBm/K510Hz)	Power density (dBm/K500Hz)	Applicable Limits (dBm/K500Hz)	Pass or Fail
5775	-11.467	-11.553	30	Pass

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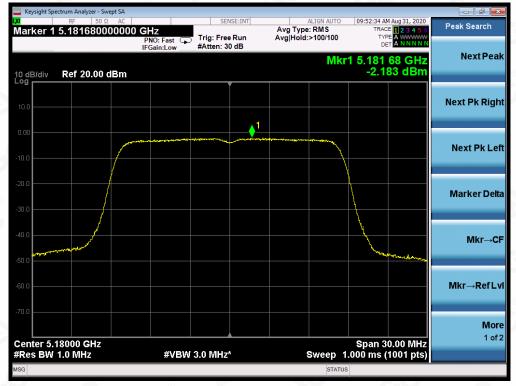
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802.11a20 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



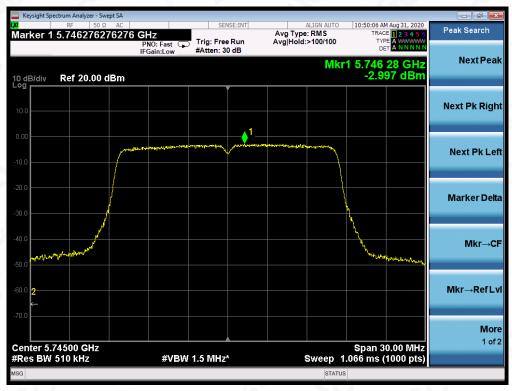
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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



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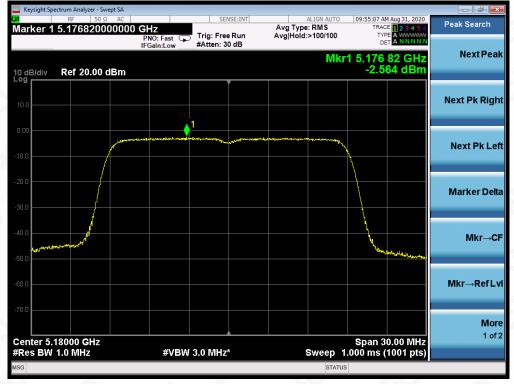
TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

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

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AGC

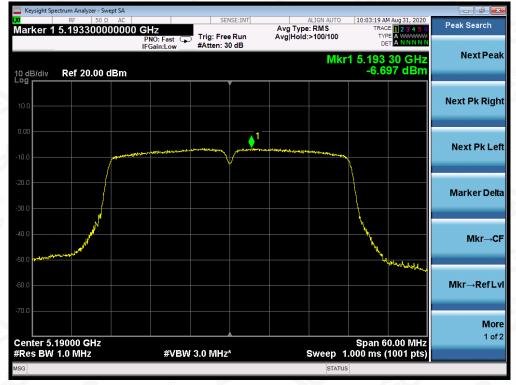
TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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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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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz

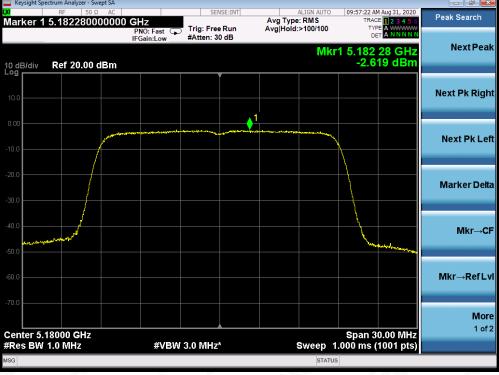


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802.11ac20 TEST RESULT



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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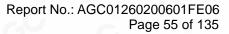


TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

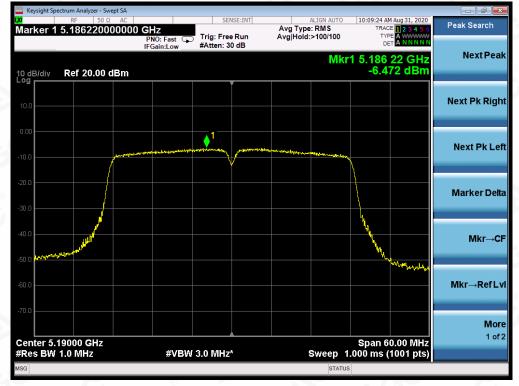
TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



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802.11ac40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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802.11ac80 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



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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.

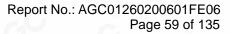
11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

11.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Ampliantia Limita	Measurement R	esult
Applicable Limits	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 edgeincreasing 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, and from 5 MHz above or below the band edge.	5725MHz-5850MHz	PASS

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FOR 802.11A20 MODULATION

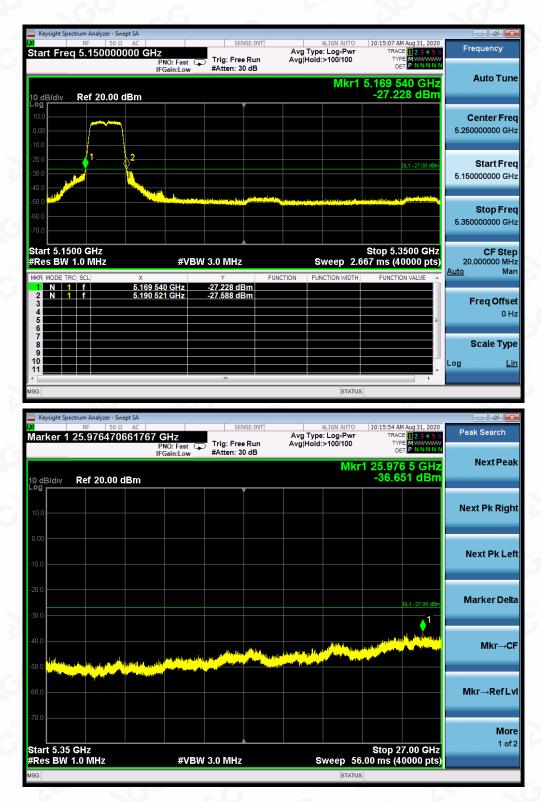
Keysight Spectrum Analyzer - Swept SA g 31, 2020 <mark>2 3 4 5</mark> (Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 Marker 1 843.535088377 MHz Trig: Free Run PNO: Fast IFGain:Low #Atten: 30 dB Next Peak Mkr1 843.535 MHz -58.577 dBm Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta DL1 -27.00 d Mkr→CF V Mkr→RefLvl More 1 of 2 Start 0.0300 GHz Stop 1.0000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 93.33 ms (40000 pts) ALIGN AUTO 10:14:10 AM Aug 31, 2020 Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 Marker 1 2.464675366884 GHz RACE 1 2 3 4 5 Trig: Free Run #Atten: 30 dB түр PNO: Fast 😱 DET IEGai Next Peak Mkr1 2.464 68 GHz -44.955 dBm Ref 20.00 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Start 1.000 GHz #Res BW 1.0 MHz Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz STATUS

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

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Report No.: AGC01260200601FE06 Page 60 of 135

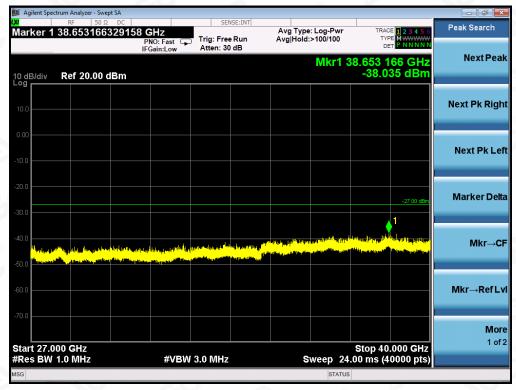




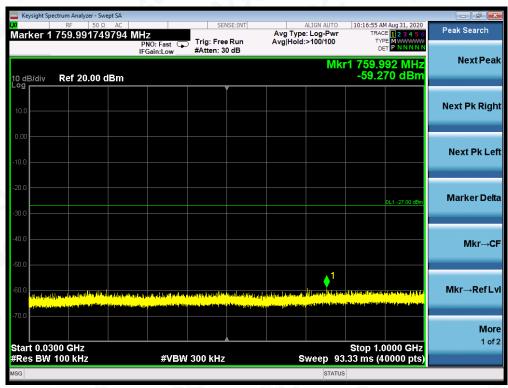
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz

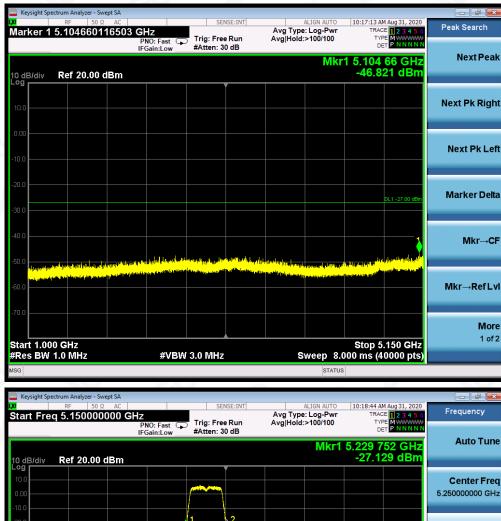


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Report No.: AGC01260200601FE06 Page 62 of 135



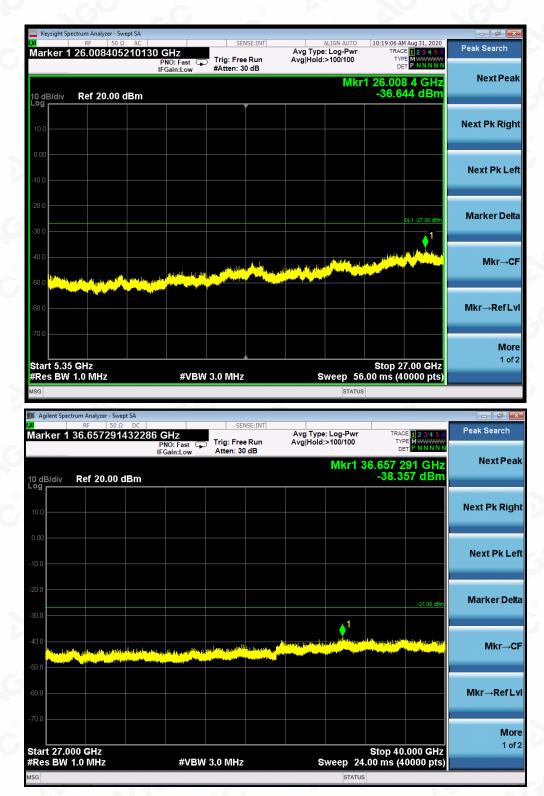


		IO: Fast 🕞 Trig: F iain:Low #Atten	: 30 dB	Avginoia:	>100/100	DET	NNNN		
10 dB/div Ref	f 20.00 dBm				Mkr1	5.229 752 -27.129	GHz dBm	Au	to Tune
Log 10.0 0.00			1						ter Freq 0000 GHz
-20.0 -30.0 -40.0		1	2			DL1 -	27.00 dBm		art Freq 0000 GHz
-50.0					aden die Kerken is die die Anter ander die State ander				op Freq 0000 GHz
Start 5.1500 G #Res BW 1.0 M	MHz	#VBW 3.0 MH			weep 2.6	Stop 5.350 67 ms (4000	00 pts)		CF Step 0000 MHz Man
1 N 1 f 2 N 1 f 3 - - - 4 - - - 6 - - -		GHz -27.129	dBm			FUNCTION V		Fre	q Offset 0 Hz
6 7 8 9 10 11								Sca Log	ale Type <u>Lin</u>
MSG		m			STATUS		F		

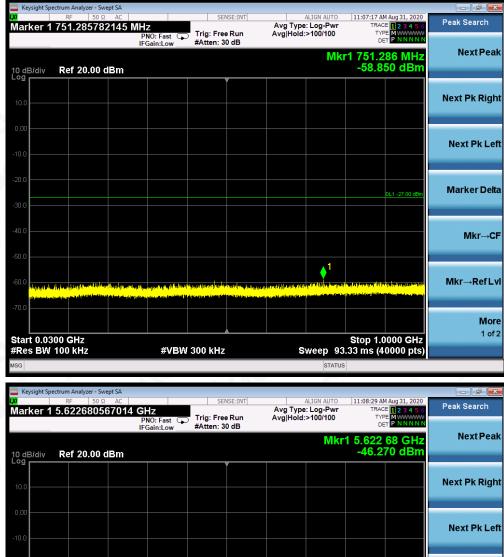
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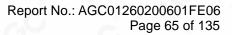
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

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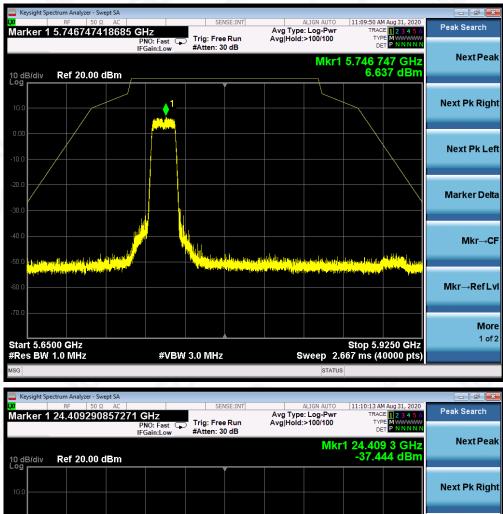
AGC

Peak Search	M Aug 31, 2020 DE 1 2 3 4 5 6 DE M WWWWW T P N N N N N	r TF	ALIGN AUT e: Log-Pw :>100/100			T-1 - F-	PNO: Fast	50 Ω AC 2268056701	
Next Pe	68 GHz 70 dBm	kr1 5.62 -46.	Μ			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	I Gam.Low	ef 20.00 dBm	dB/div R
Next Pk Rig									9
Next Pk L									.0
Marker Do	DL1 -27.00 dBm								.0
Mkr→	1. 								.0
Mkr→Ref	n partin de la compañía Na seconda de la compañía		ellerine for an and a second sec	1 ⁹⁴) Million and Malaysian Dalama and an	i finin in print day. Phone print day	iero polity II dia Madalana Republica dia tanggalana p	alarah punah serti di ditera Mana di punah serti di ditera Mana di punah di pa	and the second of the second	.0 utti, uugili etmite u <mark>u uugi uugi etmitessa e</mark> .0
M (.650 GHz	Stop						Hz	.0 art 1.000 G

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 IFGain:Low
 #Atten: 30 dB
 OF
 Mkr1 24.409 3 GHz -37.444 dBn
 Next Peak

 10 dB/div
 Ref 20.00 dBm
 -37.444 dBn
 -37.444 dBn
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -37.444 dBn
 Next Pk Right

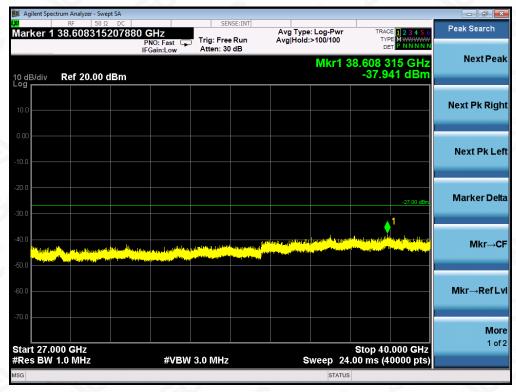
 10 dB/div
 Ref 20.00 dBm
 -37.444 dBn
 Next Pk Right

 10 dB/div
 Ref 20.00 dBm
 -30.0
 -30.0
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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz



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Keysight Sp X/	RF 50			SEN			ALIGN AUTO		4 Aug 31, 2020	Book Soorah
larker 1	5.318679	216980	CHZ PNO: Fast G IFGain:Low	Trig: Free #Atten: 3		Avg Type Avg Hold:	:: Log-Pwr :>100/100	TRAC TYP DE	E 1 2 3 4 5 6 E M WWWWW T P N N N N N	Peak Search
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FOR 802.11N40 MODULATION

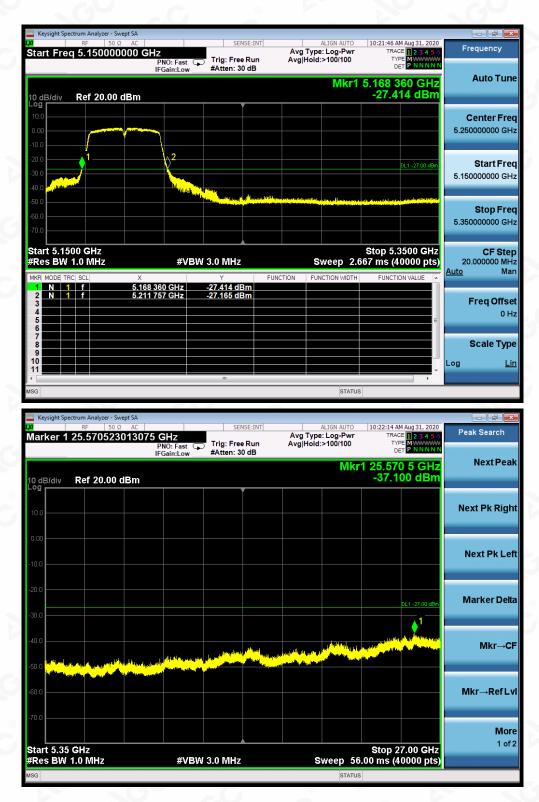
ight Spectrum Analyzer - Swept S 46 AM Aug 31, 2020 ALIGN AUTO Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search 1 220.658266457 MHz Trig: Free Run PNO: Fast IFGain:Low #Atten: 30 dB DE Next Peak Mkr1 220.658 MHz -59.522 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 93.33 ms (40000 pts) #VBW 300 kHz 0.07 AM Aug 31 2020 Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 Marker 1 5.143048576214 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low Next Peak Mkr1 5.143 05 GHz -40.888 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLvl More 1 of 2 Start 1.000 GHz #Res BW 1.0 MHz Stop 5.150 GHz Sweep 8.000 ms (40000 pts) #VBW 3.0 MHz

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz

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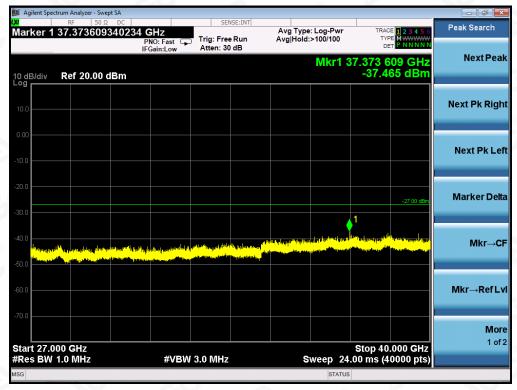
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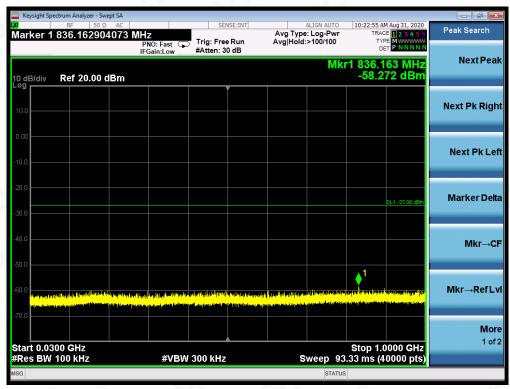
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz



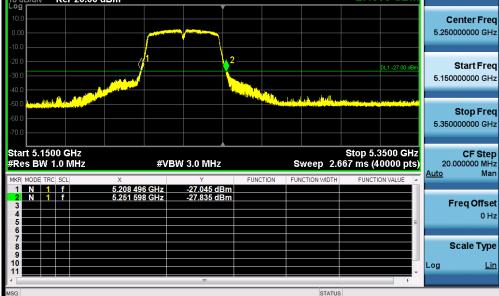
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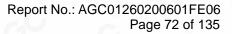
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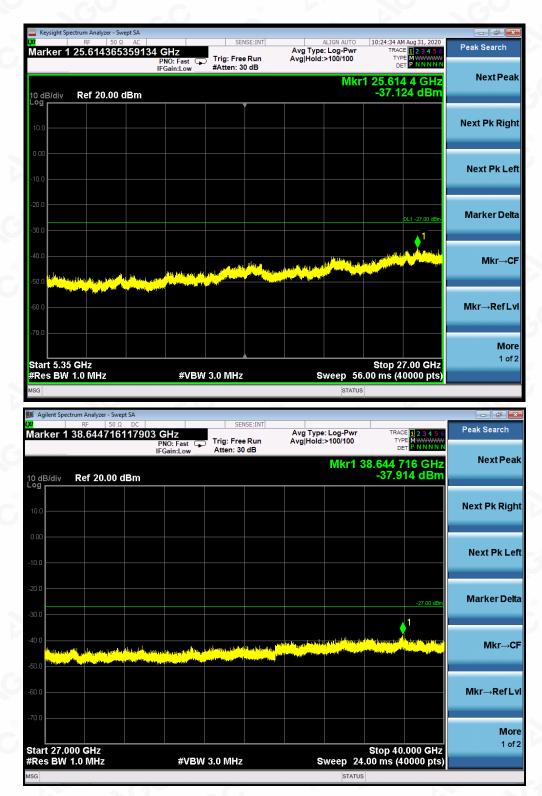




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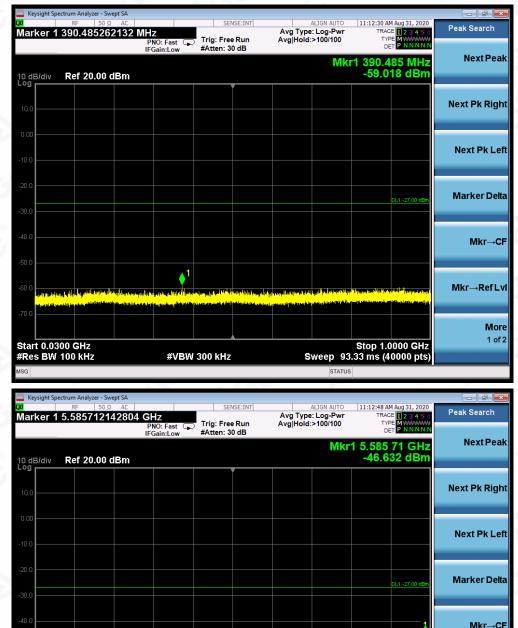




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Mkr→RefLvl

Stop 5.650 GHz Sweep 8.000 ms (40000 pts) More 1 of 2



TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

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#VBW 3.0 MHz

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Start 1.000 GHz #Res BW 1.0 MHz