

enter 5.18 GHz Res BW 300 kHz

dB Bandwidth

er 5.22 GHz

x dB Bandwidth

IC 802.11n 20MHz AUX1 5260MHz

## IC 802.11n 20MHz AUX1 5180MHz

#### 05:09:52PM Sep 2 Radio Std: None 05:14:52PM Sep 21 Radio Std: None ter Freq 5.180000000 GHz enter Freq 5.26000000 GHz Center Freq: 5.180 Trig: Free Run 000 GHz Avg|Held: 50/50 00 GHz Avg|Hold: 50/50 Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dB Center Fre Center Fred 5.260000000 GH; Span 30 MHz Sween 1 ms nter 5.26 GH Span 30 MH Sweep 1 m CF Step 3.000000 ML CF Step 3.000000 ML #VBW 1 MH; 0 kHz #VBW 1 MHz Mi Mi 17.7 dBm 24.8 dBm Total Power Total Power Occupied Bandwidth Occupied Bandwidth 18.030 MHz 19.625 MHz Freq Offse Freq Offse OBW Powe Transmit Freq Erro OBW Pov Transmit Freq Error 60.179 kHz 99.00 % οн 315.23 kHz 99.00 % 0 H 17.74 MHz x dB -6.00 dB dB Bandwidth 17.78 MHz x dB -6.00 dB IC 802.11n 20MHz AUX1 5220MHz IC 802.11n 20MHz AUX1 5300MHz 05:11:48PM Sep 21 Radio Std: None enter Freq 5.300000000 GHz 05:16:18PM Sep 21 Radio Std: None enter Freq 5.220000000 GHz GHz Hold: 50/50 0 GHz AvalHold: 50/50 Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dBm Center Fre Center Free 5 220000000 GH 5 300000000 G Span 30 MHz Center 5.3 GHz #Res BW 300 kHz Span 30 MHz CF Step 3.000000 MHz CF Step 3.000000 MHz #VBW 1 MHz #VBW 1 MHz MH Ma M Occupied Bandwidth Total Pow 17.6 dBm Occupied Bandwidth Total Powe 24.9 dBm 17.998 MHz 19.293 MHz Freq Offse Freq Offse 0 H 59.493 kHz 99.00 % 298.08 kHz Transmit Freq Error OBW Power Transmit Freq Error OBW Power 99.00 % 17.79 MHz 17.84 MHz -6.00 dB x dB Bandwidth -6.00 dB x dB x dB IC 802.11n 20MHz AUX1 5320MHz IC 802.11n 20MHz AUX1 5240MHz

RL I	Analyzer - Occupied BW		SENSE:INT	ALIGNAUTO	05:13:21PM Sep 21, 2018 Radio Std: None	Frequency	Agilent Spectrum Analyz	50 9 AC	SENSE:INT Center Freq: 5.32000000	GHz Radio	758PM Sep 21, 2018 Std: None	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm	YIFGain:Low #	frig: Free Run Atten: 20 dB	Avg Held: 50/50	Radio Device: BTS		10 dB/div Ref	#IFGain:Low Offset 14 dB 30.00 dBm	#Atten: 20 dB	g Hold: 50/50 Radio	Device: BTS	
20.0 10.0						Center Freq 5.240000000 GHz	20.0 10.0					Center Freq 5.320000000 GHz
-10.0					A CONTRACTOR		-10.0 -20.0 -30.0				Mr. Marine	
-40.0 -60.0 -60.0							-40.0 -50.0 -60.0					
Center 5.24 #Res BW 30			#VBW 1 MHz		Span 30 MHz Sweep 1 ms	CF Step 3.000000 MHz	Center 5.32 GHz #Res BW 300 kH		#VBW 1 MHz		Span 30 MHz Sweep 1 ms	
Occupie	d Bandwidth		Total Po	wer 17.9	) dBm	<u>Auto</u> Man	Occupied B	andwidth	Total Powe	er 22.8 dBn	n	<u>Auto</u> Man
	17.	.986 MHz	2			Freq Offset		18.068 N	/Hz			Freq Offset
Transmit	Freq Error	40.525 kHz	z OBW Po	wer 99	9.00 %	0 Hz	Transmit Fre	g Error 42.10	kHz OBW Pow	er 99.00 %	6	0 Hz
x dB Ban	dwidth	17.86 MH	z xdB	-6.	00 dB		x dB Bandwid	ith 17.71	MHz xdB	-6.00 dE	3	
MSG				STATUS	8		MSG			STATUS		

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IC 802.11n 20MHz AUX1 5745MHz

## IC\_802.11n\_20MHz\_AUX1\_5500MHz

#### 05:19:20PM Sep 2 Radio Std: None 05:24:10PM Sep 21 Radio Std: None ter Freq 5.500000000 GHz enter Freq 5.745000000 GHz Center Freq: 5.5 Trig: Free Run 00 GHz Avg|Hold: 50/50 00 GHz Avg|Hold: 50/50 Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dB Center Fre Center Free 5.745000000 GH enter 5.5 GHz Res BW 300 kHz Span 30 MHz Sweep 1 ms CF Step 3.000000 MH nter 5.745 GHz es BW 300 kHz Span 30 MH Sweep 1 m CF Step 3.000000 ML #VBW 1 MH; #VBW 1 MHz 21.4 dBm 24.9 dBm Total Power Total Power Occupied Bandwidth Occupied Bandwidth 18.015 MHz 18.654 MHz Freq Offse Freq Offse OBW Powe Transmit Freq Erro OBW Pov Transmit Freq Error 40.252 kHz 99.00 % οн 106.72 kHz 99.00 % 0 H dB Bandwidth 17.69 MHz x dB -6.00 dB dB Bandwidth 17.74 MHz x dB -6.00 dB IC 802.11n 20MHz AUX1 5580MHz IC 802.11n 20MHz AUX1 5785MHz enter Freq 5.785000000 GHz 05:25:35 PM Sep 21, Radio Std: None enter Freq 5.580000000 GHz GHz Hold: 50/50 Radio Std: None 00 GHz AvalHold: 50/50 Center Freq: 5. Trig: Free Run Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dBm Center Fre Center Free 00 GF 5 785000000 G er 5.58 GHz Span 30 MHz Center 5.785 GHz Span 30 MHz CF Step 3.000000 MHz CF Step 3.000000 MHz #VBW 1 MHz #VBW 1 MHz MH Ma M Occupied Bandwidth Total Pow 24.4 dBm Occupied Bandwidth Total Powe 24.6 dBm 19.196 MHz 18.517 MHz Freq Offse Freq Offse 0 H 196.38 kHz 99.00 % 34.679 kHz Transmit Freq Error OBW Power Transmit Freq Error OBW Power 99.00 % 17.76 MHz x dB Bandwidth 17.79 MHz -6.00 dB x dB Bandwidth -6.00 dB x dB x dB IC 802.11n 20MHz AUX1 5700MHz IC 802.11n 20MHz AUX1 5825MHz

Agilent Spectrum Analyzer - Occupied BW				Agilent Spectrum Analyzer - Occupied BW			
RL MF SOD AC Center Freq 5.700000000 GHz MIFGain		ALIONAUTO 05:22:49PM Sep.21, 2018 Iz Radio Std: None Iold: 50/50 Radio Device: BTS	Frequency	Center Freq 5.825000000 GHz	SENSE DYT ALIGNA Center Freq: 5.825000000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 20 dB	Radio Std: None	Frequency
Ref Offset 14 dB IO dB/div Ref 30.00 dBm				10 dB/div Ref 30.00 dBm			
			Center Freq 5.700000000 GHz	200 100		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Center Fr 5.825000000 G
0.0		Wenny weet		-10.0 -20.0		Mar and a second and	
0.0 .0 .0				-30.0 -40.0 -60.0			
enter 5.7 GHz		Span 30 MHz		-60.0 Center 5.825 GHz		Span 30 MHz	CF St
Res BW 300 kHz	#VBW 1 MHz	Sweep 1 ms	3.000000 MHz Auto Man	#Res BW 300 kHz	#VBW 1 MHz	Sweep 1 ms	3.000000 N Auto
Occupied Bandwidth 17.998	Total Power 8 MHz	19.5 dBm	Freq Offset	Occupied Bandwidth 18.485 M		24.5 dBm	Freq Offs
Transmit Freq Error 50	0.981 kHz OBW Power	99.00 %	0 Hz	Transmit Freq Error 92.62	kHz OBW Power	99.00 %	0
x dB Bandwidth 1	7.72 MHz x dB	-6.00 dB		x dB Bandwidth 17.74	MHz xdB	-6.00 dB	
90		STATUS		M9G		STATUS	

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IC 802.11n 40MHz Main 5310MHz

## IC\_802.11n\_40MHz\_Main\_5190MHz

#### 05:29:34PM Sep 2: Radio Std: None enter Freq 5.310000000 GHz ter Freq 5.190000000 GHz Center Freq 5.190000000 GHz Trig: Freq Run Avg|Hold: 50/50 Center Freq: 5.3100 Trig: Free Run 000 GHz Avg|Hold: 50/50 Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dBr Center Fre Center Free 5.310000000 GH; enter 5.19 GHz Res BW 300 kHz Span 50 MHz Sween 1 ms 5.31 GH Span 50 MH Sweep 1 m CF Step 5.000000 M CF Step 5.000000 ML #VBW 1 MHz es R 0 kH #VBW 1 MHz 18.8 dBm Total Power 17.5 dBm Total Power Occupied Bandwidth Occupied Bandwidth 36.300 MHz 36.287 MHz Freq Offse Freq Offse Transmit Freq Error OBW Powe Transmit Freq Erro OBW Pow 11.058 kHz 99.00 % οн 6.049 kHz 99.00 % 0 H x dB Bandwidth 36.37 MHz x dB -6.00 dB dB Bandwidth 36.40 MHz x dB -6.00 dB IC 802.11n 40MHz Main 5230MHz IC 802.11n 40MHz Main 5510MHz 05:31:00PM Sep 21 Radio Std: None 05:36:41PM Sep 21 Radio Std: None enter Freq 5.230000000 GHz enter Freq 5.510000000 GHz Center Freq: 5.51 00 GHz AvaiHold: 50/50 00 GHz AvalHold: 50/50 Center Freq: 5.2 Trig: Free Run Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dBm Center Fre Center Free 5 2300000 00 GF 5 510000000 G Center 5.51 GHz Span 50 MHz Span 50 MHz er 5.23 GHz CF Step 5.000000 MHz CF Step 5.000000 MHz #VBW 1 MHz VBW 1 MHz MH Ma M Occupied Bandwidth Total Pow 17.8 dBm Occupied Bandwidth Total Powe 18.7 dBm 36.294 MHz 36.286 MHz Freq Offse Freq Offs он 1.992 kHz 99.00 % -1.387 kHz Transmit Freq Error OBW Power Transmit Freq Error OBW Power 99.00 % 36.37 MHz 36.40 MHz x dB Bandwidth -6.00 dB x dB Bandwidth -6.00 dB x dB x dB IC 802.11n 40MHz Main 5550MHz IC 802.11n 40MHz Main 5270MHz 05:33:07 PM Sep 21 Radio Std: None Center Freq 5.550000000 GHz 05:38:13PM Sep 21 Radio Std: None nter Freq 5.270000000 GHz 00 GHz AvalHald: 50/5 Center Freq: 5.3 Trig: Free Run 00 GHz AvalHeld: Center Freq: 5 Trig: Free Run Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dB Ref Offset 14 dB Ref 30.00 dBn Center Fre Center Free

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25.8 dBm

99.00 %

-6.00 dB

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5.55 GH

kH:

Occupied Bandwidth

ansmit Freq Erro

v dB Bandwidth

36.925 MHz

28.704 kHz

36.48 MHz

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#VBW 1 MHz

v dB

Total Power

OBW Powe

5.27 GH

Occupied Bandwidth

Transmit Freq Error

v dB Bandwidth

37.776 MHz

368.56 kHz

36.44 MHz

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Span 50 MHz

CF Step 5.000000 MHz Man

Freq Offse

он

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#VBW 1 MHz

Total Power

OBW Por

x dB

Span 50 MH

25.1 dBm

99.00 %

-6.00 dB

CF Step 5.000000 MP

Freq Offse

0 H



## IC\_802.11n\_40MHz\_Main\_5670MHz

## IC\_802.11n\_40MHz\_AUX1\_5190MHz



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IC 802.11n 40MHz AUX1 5670MHz

## IC\_802.11n\_40MHz\_AUX1\_5310MHz

#### 05:35:29PM Sep 2 05:40:11PM Sep 2 Radio Std: None enter Freq 5.670000000 GHz ter Freq 5.310000000 GHz Center Freq 5.310000000 GHz Center Freq: 5.670 Trig: Free Run 000 GHz Avg|Hold: 50/50 Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dBr Center Fre Center Fred 5.670000000 GH; enter 5.31 GHz Res BW 300 kHz Span 50 MHz Sween 1 ms 5.67 GH Span 50 MH Sweep 1 m CF Step 5.000000 M CF Step 5.000000 ML #VBW 1 MH; es R 0 kH #VBW 1 MHz Total Power 18.9 dBm Total Power 21.8 dBm Occupied Bandwidth Occupied Bandwidth 36.281 MHz 36.342 MHz Freq Offs Freq Offse Transmit Freq Error Transmit Freq Error 21.313 kHz OBW Powe OBW Pov 99.00 % οн -22.740 kHz 99.00 % 0 H x dB Bandwidth 36.43 MHz x dB -6.00 dB dB Bandwidth 36.44 MHz x dB -6.00 dB IC 802.11n 40MHz AUX1 5510MHz IC 802.11n 40MHz AUX1 5755MHz 05:37:10PM Sep 21 Radio Std: None 05:42:12 PM Sep 21 Radio Std: None enter Freq 5.510000000 GHz Center Freq: 5.510 Trig: Free Run enter Freq 5.755000000 GHz Center Freq: 5.75 Trig: Free Run 00 GHz AvalHold: 50/50 00 GHz AvglHold: 50/50 Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dBr Ref Offset 14 dB Ref 30.00 dBm Center Free Center Free 5 5100000 00 GF 5 755000000 G Center 5.755 GHz er 5.51 GHz Span 50 MHz Span 50 MHz CF Step 5.000000 MHz #VBW 1 MHz CF Step 5.000000 MHz #VBW 1 MHz MH Ma M Occupied Bandwidth Total Pow 18.6 dBm Occupied Bandwidth Total Powe 25.5 dBm 36.266 MHz 36.699 MHz Freq Offse Freq Offs он 39.687 kHz 5.742 kHz 99.00 % Transmit Freq Error OBW Power Transmit Freq Error OBW Power 99.00 % 36.39 MHz 36.48 MHz x dB Bandwidth -6.00 dB x dB Bandwidth -6.00 dB x dB x dB IC 802.11n 40MHz AUX1 5550MHz IC 802.11n 40MHz AUX1 5795MHz 05:38:40PM Sep 21 Radio Std: None enter Freq 5.795000000 GHz 05:46:14PM Sep 21 Radio Std: None Inter Freq 5.550000000 GHz ALION 00 GHz Avg|Hold: 50/50 Center Freq: 5. Trig: Free Run 00 GHz AvalHeld: 5 Center Freq: 5. Trig: Free Run Radio Device: BTS Radio Device: BTS Ref Offset 14 dB Ref 30.00 dB Ref Offset 14 dB Ref 30.00 dBn Center Fre Center Fre

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25.0 dBm

99.00 %

-6.00 dB

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5.795 G W 300 k

kH

Occupied Bandwidth

ansmit Freq Erro

v dB Bandwidth

36.657 MHz

-18.284 kHz

36.44 MHz

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#VBW 1 MHz

v dB

Total Power

OBW Powe

5.55 GHz

Transmit Freq Error

v dB Bandwidth

Occupied Bandwidth

36.875 MHz

23.831 kHz

36.46 MHz

t (886-2) 2299-3279

Span 50 MHz

CF Step 5.000000 MHz Man

Freq Offse

он

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#VBW 1 MHz

Total Power

OBW Por

x dB

Span 50 MH

25.1 dBm

99.00 %

-6.00 dB

CF Step 5.000000 M

Freq Offse

0 H



## IC\_802.11ac\_80MHz\_Main\_5210MHz

#### IC\_802.11ac\_80MHz\_Main\_5610MHz



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00 GHz Avg|Hold: 50/50

Radio Std: None

Radio Device: BTS

Span 100 MH reep 1.067 m

81

99.00 %

-6.00 dB

24.5 dBm

Center Free 5.775000000 GH

CF Step 10.000000 MH

Freq Offse

OН

IC 802.11ac 80MHz AUX1 5775MHz

#VBW 1 MHz

x dB

Total Power

OBW Powe

enter Freq 5.775000000 GHz

enter 5.775 GHz Res BW 300 kHz

Occupied Bandwidth

Transmit Freq Erro

dB Bandwidth

76.004 MHz

12.008 kHz

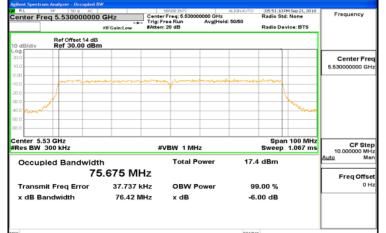
76.51 MHz

Ref Offset 14 dB Ref 30.00 dB

#### IC 802.11ac 80MHz AUX1 5290MHz

prices rice	eq 5.290000000	Trig: F	er Freq: 5.290000000 GHz Free Run Avg Hold: n: 20 dB	Radio Std: None 1: 50/50 Radio Device: BTS	Frequency
dB/div	Ref Offset 14 dB Ref 30.00 dBm	n			
9 .0 .0					Center Free 5.290000000 GH
					-
annor					
nter 5.2 es BW 3		#	VBW 1 MHz	Span 100 MH Sweep 1.067 m	
Dccupi	ied Bandwidtl 75	հ 5.716 MHz	Total Power	13.5 dBm	Auto Ma
Fransm	it Freq Error	121.63 kHz	OBW Power	99.00 %	он
x dB Ba	andwidth	76.39 MHz	x dB	-6.00 dB	

## IC 802.11ac 80MHz AUX1 5530MHz



## IC 802.11ac 80MHz AUX1 5610MHz

Agilent Spectrum Analyzer - Occupie					
Center Freq 5.6100000	00 GHz	SENSE:INT Center Freq: 5.610000		05:52:53PM Sep 21, 2018 Radio Std: None	Frequency
		Trig: Free Run #Atten: 20 dB	Avg Held: 50/50	Radio Device: BTS	
10 dB/div Ref 30.00 d					
20.0 10.0					Center Freq
0.00		my	Swits Providence - why who	harring	
-30.0					
60.0					
Center 5.61 GHz				Span 100 MHz	
#Res BW 300 kHz		#VBW 1 MHz	2	Sweep 1.067 ms	CF Step 10.000000 MHz
Occupied Bandwi	dth	Total Po	ower 25.	7 dBm	Auto Man
-	76.361 MH	z			Freq Offset
Transmit Freq Error	ansmit Freq Error 58.900 k		ower 9	9.00 %	0 Hz
x dB Bandwidth	76.43 MH	lz xdB	-6	.00 dB	
DBN			STAT	38	

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#### MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 9

## 9.1 Standard Applicable

#### FCC

OPERZTION Band		EUT CATEGORY	LIMIT		
		Access Point (Master device)	1 Watt(30dBm)		
U-NII-1		Fixed point-to-point Access Ponit	1 Watt(30dBm)		
		Mobile and portable client device	250mW(23.98dBm)		
U-NII-2A			250mW(23.98dBm) or 11dBm+10 log B		
U-NII-2C			250mW(23.98dBm) or 11dBm+10 log B		
U-NII-3			1 Watt(30dBm)		
If transmitting	antei	nnas of directional gain greater than	6 dBi are used, the Maximum transmit		

power shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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OPERZTION FREQUENCY BAND	LIMIT					
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log10B, dBm					
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log10B EIRP shall not exceed 1.0 W or 17 + 10 log10B, dBm					
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm					
5725~5850 MHz	Conducted output power shall not exceed 1 W					
For equipment operating in the band <b>5725-5850</b> MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.						

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Note:

As per FCC KDB 662911 D01

a) Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

If any transmit signals are correlated with each other,

(i) Directional gain = GANT + 10 log(NANT) dBi

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below

Frequency (MHz)	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII 1 5150-5250MHz	8.01	21.97
UNII 2 5250-5350MHz	8.01	21.97
UNII 2 5470-5725MHz	8.01	21.97
UNII 3 5725-5825MHz	8.01	27.99

## 9.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode. 1.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules . 2.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- 4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
- 5. Record the max. reading and add 10 log(1/duty cycle).
- 6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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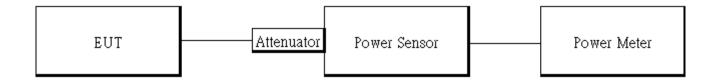
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## 9.3 Measurement Equipment Used

	SO	GS Conducted R	oom		
Name of Equip- ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum An- alyzer	Agilent	N9010A	MY50420195	05/03/2018	05/02/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2018	01/01/2019
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2018	01/01/2019
Power Meter	Anritsu	ML2496A	1804001	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726104	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726107	02/01/2018	01/31/2019

## 9.4 Test Set-up



## 9.5 Measurement Result

Conducted output power (FCC)

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#### 802.11a\_Ch0

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	6	10.91	12.331		23.98		PASS
44	5220	6	10.94	12.416		23.98		PASS
48	5240	6	10.86	12.190		23.98		PASS
52	5260	6	17.87	61.235	23.98	or 11+10log(B) =	25.77	PASS
60	5300	6	17.80	60.255	23.98	or 11+10log(B) =	25.77	PASS
64	5320	6	16.45	44.157	23.98	or 11+10log(B) =	25.42	PASS
100	5500	6	14.10	25.704	23.98	or 11+10log(B) =	24.85	PASS
116	5580	6	17.81	60.394	23.98	or 11+10log(B) =	25.77	PASS
140	5700	6	8.71	7.430	23.98	or 11+10log(B) =	24.30	PASS
149	5745	6	17.71	59.020		30		PASS
157	5785	6	17.92	61.944		30		PASS
165	5825	6	18.11	64.714		30		PASS

#### 802.11a Ch1

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	6	10.49	11.194		23.98		PASS
44	5220	6	10.50	11.220		23.98		PASS
48	5240	6	10.80	12.023		23.98		PASS
52	5260	6	17.81	60.394	23.98	or 11+10log(B) =	25.77	PASS
60	5300	6	17.77	59.841	23.98	or 11+10log(B) =	25.77	PASS
64	5320	6	16.33	42.953	23.98	or 11+10log(B) =	25.39	PASS
100	5500	6	13.82	24.099	23.98	or 11+10log(B) =	24.61	PASS
116	5580	6	17.59	57.411	23.98	or 11+10log(B) =	25.77	PASS
140	5700	6	8.56	7.178	23.98	or 11+10log(B) =	24.32	PASS
149	5745	6	17.60	57.544		30		PASS
157	5785	6	17.65	58.210		30		PASS
165	5825	6	17.90	61.659		30		PASS

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#### 802.11a 2Tx

			A	/g. POV	/ER (dB	im)	TOTAL	TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	сн о	СН 1	CH 2	СНЗ	POWER + TOLERANCE (dBm)	POWER + TOLERANCE (mW)		LIMIT (dBm)		RESULT
36	5180	6	10.8	10.6	0	0	13.90	24.532		21.96970004		PASS
44	5220	6	10.9	10.6	0	0	13.95	24.848		21.96970004		PASS
48	5240	6	10.7	10.7	0	0	13.91	24.578		21.96970004		PASS
52	5260	6	17.7	17.7	0	0	20.93	123.745	21.97	or 11+10log(B) =	25.77	PASS
60	5300	6	17.6	17.6	0	0	20.83	121.068	21.97	or 11+10log(B) =	25.77	PASS
64	5320	6	16.3	16.2	0	0	19.46	88.212	21.97	or 11+10log(B) =	25.39	PASS
100	5500	6	13.9	13.9	0	0	17.13	51.645	21.97	or 11+10log(B) =	24.61	PASS
116	5580	6	17.7	17.4	0	0	20.77	119.311	21.97	or 11+10log(B) =	25.77	PASS
140	5700	6	8.48	8.41	0	0	11.66	14.640	21.97	or 11+10log(B) =	24.30	PASS
149	5745	6	17.5	17.4	0	0	20.68	116.840		27.98970004		PASS
157	5785	6	17.7	17.5	0	0	20.81	120.537		27.98970004		PASS
165	5825	6	17.8	17.7	0	0	20.97	125.042		27.98970004		PASS

#### 802.11n\_HT20\_Ch0

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)			RESULT
36	5180	MCS0	11.01	12.609		23.98		PASS
44	5220	MCS0	11.00	12.580		23.98		PASS
48	5240	MCS0	10.94	12.408		23.98		PASS
52	5260	MCS0	17.93	62.042	23.98	or 11+10log(B) =	25.77	PASS
60	5300	MCS0	17.93	62.042	23.98	or 11+10log(B) =	25.77	PASS
64	5320	MCS0	16.58	45.466	23.98	or 11+10log(B) =	25.28	PASS
100	5500	MCS0	13.30	21.364	23.98	or 11+10log(B) =	24.65	PASS
116	5580	MCS0	17.92	61.899	23.98	or 11+10log(B) =	25.77	PASS
140	5700	MCS0	12.66	18.437	23.98	or 11+10log(B) =	24.64	PASS
149	5745	MCS0	17.93	62.042		30		PASS
157	5785	MCS0	17.99	62.905		30		PASS
165	5825	MCS0	18.30	67.559		30		PASS

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#### 802.11n\_HT20\_Ch1

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	10.65	11.606		23.98		PASS
44	5220	MCS0	10.68	11.687		23.98		PASS
48	5240	MCS0	10.88	12.237		23.98		PASS
52	5260	MCS0	17.88	61.332	23.98	or 11+10log(B) =	25.77	PASS
60	5300	MCS0	17.89	61.473	23.98	or 11+10log(B) =	25.77	PASS
64	5320	MCS0	16.53	44.945	23.98	or 11+10log(B) =	25.23	PASS
100	5500	MCS0	13.28	21.266	23.98	or 11+10log(B) =	24.58	PASS
116	5580	MCS0	17.63	57.901	23.98	or 11+10log(B) =	25.77	PASS
140	5700	MCS0	12.63	18.310	23.98	or 11+10log(B) =	24.67	PASS
149	5745	MCS0	17.72	59.113		30		PASS
157	5785	MCS0	17.81	60.351		30		PASS
165	5825	MCS0	17.85	60.909		30		PASS

#### 802.11n\_HT20\_MIMO

	_		A۱	/g. POW	/ER (dE	Bm)	TOTAL	TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	СН 0	СН 1	CH 2	СНЗ	POWER + TOLERANCE (dBm)	POWER + TOLERANCE (mW)		LIMIT (dBm)		RESULT
36	5180	MCS8	10.6	10.2	0	0	13.80	23.977		21.96970004		PASS
44	5220	MCS8	10.7	10.1	0	0	13.81	24.059		21.96970004		PASS
48	5240	MCS8	10.4	10.3	0	0	13.72	23.565		21.96970004		PASS
52	5260	MCS8	17.6	17.5	0	0	20.92	123.515	21.97	or 11+10log(B) =	25.77	PASS
60	5300	MCS8	17.5	17.4	0	0	20.80	120.304	21.97	or 11+10log(B) =	25.77	PASS
64	5320	MCS8	16.1	16	0	0	19.38	86.645	21.97	or 11+10log(B) =	25.23	PASS
100	5500	MCS8	12.9	12.9	0	0	16.25	42.142	21.97	or 11+10log(B) =	24.58	PASS
116	5580	MCS8	17.6	17.2	0	0	20.77	119.401	21.97	or 11+10log(B) =	25.77	PASS
140	5700	MCS8	12.4	12.2	0	0	15.68	37.005	21.97	or 11+10log(B) =	24.64	PASS
149	5745	MCS8	17.4	17.2	0	0	20.64	115.957		27.98970004		PASS
157	5785	MCS8	17.6	17.4	0	0	20.88	122.581		27.98970004		PASS
165	5825	MCS8	17.9	17.7	0	0	21.15	130.259		27.98970004		PASS

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#### 802.11n HT40 Ch0

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	11.21	13.222		23.98		PASS
46	5230	MCS0	11.17	13.101		23.98		PASS
54	5270	MCS0	18.41	69.392	23.98	or 11+10log(B) =	27.99	PASS
62	5310	MCS0	12.70	18.634	23.98	or 11+10log(B) =	27.24	PASS
102	5510	MCS0	12.37	17.271	23.98	or 11+10log(B) =	27.25	PASS
110	5550	MCS0	18.20	66.116	23.98	or 11+10log(B) =	27.99	PASS
134	5670	MCS0	12.97	19.829	23.98	or 11+10log(B) =	27.94	PASS
151	5755	MCS0	18.36	68.597		30		PASS
159	5795	MCS0	18.54	71.500		30		PASS

#### 802.11n HT40 Ch1

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	MCS0	10.67	11.676		23.98		PASS
46	5230	MCS0	10.71	11.784		23.98		PASS
54	5270	MCS0	18.20	66.116	23.98	or 11+10log(B) =	27.99	PASS
62	5310	MCS0	12.65	18.421	23.98	or 11+10log(B) =	27.21	PASS
102	5510	MCS0	12.29	16.955	23.98	or 11+10log(B) =	27.20	PASS
110	5550	MCS0	18.17	65.661	23.98	or 11+10log(B) =	27.99	PASS
134	5670	MCS0	12.90	19.512	23.98	or 11+10log(B) =	27.99	PASS
151	5755	MCS0	18.27	67.190		23.98		PASS
159	5795	MCS0	18.38	68.914		30		PASS

#### 802.11n\_HT40\_MIMO

	<b>F</b>	Dete	A	vg. POV	VER (dE	Bm)		TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	сн о	СН 1	CH 2	СНЗ	POWER + TOLERANCE (dBm)	POWER + TOLERANCE (mW)		LIMIT (dBm)		RESULT
38	5190	MCS8	10.1	9.53	0	0	13.59	22.844		21.96970004		PASS
46	5230	MCS8	10.3	9.59	0	0	13.70	23.420		21.96970004		PASS
54	5270	MCS8	17.5	17.3	0	0	21.16	130.741	21.97	or 11+10log(B) =	27.99	PASS
62	5310	MCS8	11.7	11.7	0	0	15.44	35.022	21.97	or 11+10log(B) =	27.21	PASS
102	5510	MCS8	11.5	11.4	0	0	15.20	33.101	21.97	or 11+10log(B) =	27.20	PASS
110	5550	MCS8	17.4	17.3	0	0	21.07	128.046	21.97	or 11+10log(B) =	27.99	PASS
134	5670	MCS8	12.2	12	0	0	15.83	38.275	21.97	or 11+10log(B) =	27.94	PASS
151	5755	MCS8	17.4	17.3	0	0	21.07	127.900		27.98970004		PASS
159	5795	MCS8	17.5	17.5	0	0	21.27	133.918		27.98970004		PASS

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#### 802.11ac\_VHT80\_Ch0

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	10.81	12.044		23.98		PASS
58	5290	MCS0	6.63	4.600	23.98	or 11+10log(B) =	30.26	PASS
106	5530	MCS0	10.24	10.563	23.98	or 11+10log(B) =	30.26	PASS
122	5610	MCS0	18.00	63.065	23.98	or 11+10log(B) =	31.00	PASS
155	5775	MCS0	17.59	57.383		30		PASS

## 802.11ac VHT80 Ch1

СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
42	5210	MCS0	10.31	10.735		23.98		PASS
58	5290	MCS0	6.60	4.569	23.98	or 11+10log(B) =	30.25	PASS
106	5530	MCS0	10.10	10.228	23.98	or 11+10log(B) =	30.27	PASS
122	5610	MCS0	17.81	60.365	23.98	or 11+10log(B) =	31.00	PASS
155	5775	MCS0	17.42	55.180		23.98		PASS

#### 802.11ac\_VHT80\_MIMO

	_		Av	vg. POW	/ER (dB	m)	TOTAL	TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	СН 0	CH 1	CH 2	СНЗ	POWER + TOLERANCE (dBm)	POWER + TOLERANCE (mW)		LIMIT (dBm)		RESULT
42	5210	MCS0	9.2	9.77	0	0	13.21	20.953		21.96970004		PASS
58	5290	MCS0	5.49	5.58	0	0	9.25	8.421	21.97	or 11+10log(B) =	30.25	PASS
106	5530	MCS0	9.21	9.18	0	0	12.91	19.558	21.97	or 11+10log(B) =	30.26	PASS
122	5610	MCS0	17	16.7	0	0	20.56	113.782	21.97	or 11+10log(B) =	31.00	PASS
155	5775	MCS0	16.5	16.2	0	0	20.05	101.273		27.98970004		PASS

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## Conducted output power (IC)

#### 802.11a\_Ch0

сн	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	17.87	61.235	23.98	or 11+10log(B) =	23.89	PASS
60	5300	17.80	60.255	23.98	or 11+10log(B) =	23.76	PASS
64	5320	16.45	44.157	23.98	or 11+10log(B) =	23.29	PASS
100	5500	14.10	25.704	23.98	or 11+10log(B) =	23.26	PASS
116	5580	17.81	60.394	23.98	or 11+10log(B) =	23.75	PASS
140	5700	8.71	7.430	23.98	or 11+10log(B) =	23.25	PASS
149	5745	17.71	59.020		30		PASS
157	5785	17.92	61.944		30		PASS
165	5825	18.11	64.714		30		PASS

#### 802.11a\_Ch1

СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	17.81	60.394	23.98	or 11+10log(B) =	23.83	PASS
60	5300	17.77	59.841	23.98	or 11+10log(B) =	23.82	PASS
64	5320	16.33	42.953	23.98	or 11+10log(B) =	23.30	PASS
100	5500	13.82	24.099	23.98	or 11+10log(B) =	23.26	PASS
116	5580	17.59	57.411	23.98	or 11+10log(B) =	23.74	PASS
140	5700	8.56	7.178	23.98	or 11+10log(B) =	23.25	PASS
149	5745	17.60	57.544		30		PASS
157	5785	17.65	58.210		30		PASS
165	5825	17.90	61.659		30		PASS

#### 802.11a\_2Tx

	_	AVER	AGE PO	OWER (	dBm)	TOTAL TOTAL		REQUIRED			
СН	Frequency (MHz)	СН 0			POWER + TOLERANCE (dBm)	POWER + TOLERANCE (mW)		LIMIT (dBm)		RESULT	
52	5260	17.7	17.7	0	0	20.93	123.745	21.97	or 11+10log(B) =	23.83	PASS
60	5300	17.6	17.6	0	0	20.83	121.068	21.97	or 11+10log(B) =	23.76	PASS
64	5320	16.3	16.2	0	0	19.46	88.212	21.97	or 11+10log(B) =	23.29	PASS
100	5500	13.9	13.9	0	0	17.13	51.645	21.97	or 11+10log(B) =	23.26	PASS
116	5580	17.7	17.4	0	0	20.77	119.311	21.97	or 11+10log(B) =	23.74	PASS
140	5700	8.48	8.41	0	0	11.66	14.640	21.97	or 11+10log(B) =	23.25	PASS
149	5745	17.5	17.4	0	0	20.68	116.840		27.98970004		PASS
157	5785	17.7	17.5	0	0	20.81	120.537		27.98970004		PASS
165	5825	17.8	17.7	0	0	20.97	125.042		27.98970004		PASS

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#### 802.11n\_HT20\_Ch0

СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	17.93	62.042	23.98	or 11+10log(B) =	23.94	PASS
60	5300	17.93	62.042	23.98	or 11+10log(B) =	23.82	PASS
64	5320	16.58	45.466	23.98	or 11+10log(B) =	23.56	PASS
100	5500	13.30	21.364	23.98	or 11+10log(B) =	23.56	PASS
116	5580	17.92	61.899	23.98	or 11+10log(B) =	23.81	PASS
140	5700	12.66	18.437	23.98	or 11+10log(B) =	23.55	PASS
149	5745	17.93	62.042		30		PASS
157	5785	17.99	62.905		30		PASS
165	5825	18.30	67.559		30		PASS

## 802.11n\_HT20\_Ch1

сн	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)			RESULT
52	5260	17.88	61.332	23.98	or 11+10log(B) =	23.93	PASS
60	5300	17.89	61.473	23.98	or 11+10log(B) =	23.85	PASS
64	5320	16.53	44.945	23.98	or 11+10log(B) =	23.57	PASS
100	5500	13.28	21.266	23.98	or 11+10log(B) =	23.56	PASS
116	5580	17.63	57.901	23.98	or 11+10log(B) =	23.83	PASS
140	5700	12.63	18.310	23.98	or 11+10log(B) =	23.55	PASS
149	5745	17.72	59.113		30		PASS
157	5785	17.81	60.351		30		PASS
165	5825	17.85	60.909		30		PASS

#### 802.11n\_HT20\_MIMO

	Frequency		AGE PO	OWER (	dBm)	n) TOTAL TOTAL POWER + POWER +			REQUIRED		
СН	(MHz)	СН 0	CH 1	CH 2	СНЗ	TOLERANCE (dBm)	TOLERANCE (mW)		LIMIT (dBm)		RESULT
52	5260	17.6	17.5	0	0	20.92	123.515	21.97	or 11+10log(B) =	23.93	PASS
60	5300	17.5	17.4	0	0	20.80	120.304	21.97	or 11+10log(B) =	23.82	PASS
64	5320	16.1	16	0	0	19.38	86.645	21.97	or 11+10log(B) =	23.56	PASS
100	5500	12.9	12.9	0	0	16.25	42.142	21.97	or 11+10log(B) =	23.56	PASS
116	5580	17.6	17.2	0	0	20.77	119.401	21.97	or 11+10log(B) =	23.81	PASS
140	5700	12.4	12.2	0	0	15.68	37.005	21.97	or 11+10log(B) =	23.55	PASS
149	5745	17.4	17.2	0	0	20.64	115.957		27.98970004		PASS
157	5785	17.6	17.4	0	0	20.88	122.581		27.98970004		PASS
165	5825	17.9	17.7	0	0	21.15	130.259		27.98970004		PASS

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#### 802.11n\_HT40\_Ch0

СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	(aBm)			RESULT
54	5270	18.41	69.392	23.98	or 11+10log(B) =	26.77	PASS
62	5310	12.70	18.634	23.98	or 11+10log(B) =	26.60	PASS
102	5510	12.37	17.271	23.98	or 11+10log(B) =	26.60	PASS
110	5550	18.20	66.116	23.98	or 11+10log(B) =	26.67	PASS
134	5670	12.97	19.829	23.98	or 11+10log(B) =	26.60	PASS
151	5755	18.36	68.597		30		PASS
159	5795	18.54	71.500		30		PASS

#### 802.11n\_HT40\_Ch1

СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)		
54	5270	18.20	66.116	23.98	or 11+10log(B) =	26.77	PASS
62	5310	12.65	18.421	23.98	or 11+10log(B) =	26.60	PASS
102	5510	12.29	16.955	23.98	or 11+10log(B) =	26.59	PASS
110	5550	18.17	65.661	23.98	or 11+10log(B) =	26.67	PASS
134	5670	12.90	19.512	23.98	or 11+10log(B) =	26.60	PASS
151	5755	18.27	67.190		30		PASS
159	5795	18.38	68.914		30		PASS

#### 802.11n\_HT40\_MIMO

	Freeseware	AVER	AGE PO	OWER (	dBm)	TOTAL POWER +	TOTAL POWER +		REQUIRED		
СН	Frequency (MHz)	СН 0	CH 1	CH 2	СНЗ	TOLERANCE (dBm)	TOLERANCE (mW)	LIMIT (dBm)		RESULT	
54	5270	17.5	17.3	0	0	21.16	130.741	21.97	or 11+10log(B) =	26.77	PASS
62	5310	11.7	11.7	0	0	15.44	35.022	21.97	or 11+10log(B) =	26.60	PASS
102	5510	11.5	11.4	0	0	15.20	33.101	21.97	or 11+10log(B) =	26.59	PASS
110	5550	17.4	17.3	0	0	21.07	128.046	21.97	or 11+10log(B) =	26.67	PASS
134	5670	12.2	12	0	0	15.83	38.275	21.97	or 11+10log(B) =	26.60	PASS
151	5755	17.4	17.3	0	0	21.07	127.900		27.98970004		PASS
159	5795	17.5	17.5	0	0	21.27	133.918		27.98970004		PASS

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#### 802.11ac\_VHT80\_Ch0

СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)		RESULT	
58	5290	6.63	4.600	23.98	or 11+10log(B) =	29.79	PASS
106	5530	10.24	10.563	23.98	or 11+10log(B) =	29.79	PASS
122	5610	18.00	63.065	23.98	or 11+11log(B) =	29.83	PASS
155	5775	17.59	57.383		30		PASS

#### 802.11ac\_VHT80\_Ch1

СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)		RESULT	
58	5290	6.60	4.569	23.98	or 11+10log(B) =	29.79	PASS
106	5530	10.10	10.228	23.98	or 11+10log(B) =	29.79	PASS
122	5610	17.81	60.365	23.98	or 11+10log(B) =	29.83	PASS
155	5775	17.42	55.180		30		PASS

#### 802.11ac VHT80 MIMO

	AVERAGE POWE		OWER (	dBm)	TOTAL POWER +	TOTAL POWER + REQUIRED					
СН	Frequency (MHz)	СН 0	CH 1	CH 2	СНЗ	TOLERANCE (dBm)		LIMIT (dBm)		RESULT	
58	5290	5.49	5.58	0	0	9.25	8.421	21.97	or 11+10log(B) =	29.79	PASS
106	5530	9.21	9.18	0	0	12.91	19.558	21.97	or 11+10log(B) =	29.79	PASS
122	5610	17	16.7	0	0	20.56	113.782	21.97	or 11+10log(B) =	29.83	PASS
155	5775	16.5	16.2	0	0	20.05	101.273		27.98970004		PASS

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#### EIRP

#### 802.11a\_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	10.91	5.000	15.91	38.994	23.01	or 10+10log(B)=	22.24	PASS
44	5220	10.94	5.000	15.94	39.264	23.01	or 10+10log(B)=	22.26	PASS
48	5240	10.86	5.000	15.86	38.548	23.01	or 10+10log(B)=	22.25	PASS
52	5260	17.87	5.000	22.87	193.641	30	or 17+10log(B)=	29.89	PASS
60	5300	17.80	5.000	22.80	190.545	30	or 17+10log(B)=	29.76	PASS
64	5320	16.45	5.000	21.45	139.636	30	or 17+10log(B)=	29.29	PASS
100	5500	14.10	5.000	19.10	81.282	30	or 17+10log(B)=	29.26	PASS
116	5580	17.81	5.000	22.81	190.984	30	or 17+10log(B)=	29.75	PASS
140	5700	8.71	5.000	13.71	23.496	30	or 17+10log(B)=	29.25	PASS

#### 802.11a\_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	10.49	5.000	15.49	35.399	23.01	or 10+10log(B)=	22.21	PASS
44	5220	10.50	5.000	15.50	35.481	23.01	or 10+10log(B)=	22.21	PASS
48	5240	10.80	5.000	15.80	38.019	23.01	or 10+10log(B)=	22.21	PASS
52	5260	17.81	5.000	22.81	190.984	30	or 17+10log(B)=	29.83	PASS
60	5300	17.77	5.000	22.77	189.233	30	or 17+10log(B)=	29.82	PASS
64	5320	16.33	5.000	21.33	135.830	30	or 17+10log(B)=	29.30	PASS
100	5500	13.82	5.000	18.82	76.207	30	or 17+10log(B)=	29.26	PASS
116	5580	17.59	5.000	22.59	181.550	30	or 17+10log(B)=	29.74	PASS
140	5700	8.56	5.000	13.56	22.698	30	or 17+10log(B)=	29.25	PASS

#### 802.11a 2Tx

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	13.90	8.010	21.91	155.155	23.01	or 10+10log(B)=	22.21	PASS
44	5220	13.95	8.010	21.96	157.150	23.01	or 10+10log(B)=	22.21	PASS
48	5240	13.91	8.010	21.92	155.443	23.01	or 10+10log(B)=	22.21	PASS
52	5260	20.93	8.010	28.94	782.635	30	or 17+10log(B)=	29.83	PASS
60	5300	20.83	8.010	28.84	765.698	30	or 17+10log(B)=	29.76	PASS
64	5320	19.46	8.010	27.47	557.901	30	or 17+10log(B)=	29.29	PASS
100	5500	17.13	8.010	25.14	326.631	30	or 17+10log(B)=	29.26	PASS
116	5580	20.77	8.010	28.78	754.586	30	or 17+10log(B)=	29.74	PASS
140	5700	11.66	8.010	19.67	92.591	30	or 17+10log(B)=	29.25	PASS

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#### 802.11n\_HT20\_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	11.01	5.000	16.01	39.874	23.01	or 10+10log(B)=	22.54	PASS
44	5220	11.00	5.000	16.00	39.782	23.01	or 10+10log(B)=	22.56	PASS
48	5240	10.94	5.000	15.94	39.236	23.01	or 10+10log(B)=	22.54	PASS
52	5260	17.93	5.000	22.93	196.193	30	or 17+10log(B)=	29.94	PASS
60	5300	17.93	5.000	22.93	196.193	30	or 17+10log(B)=	29.82	PASS
64	5320	16.58	5.000	21.58	143.775	30	or 17+10log(B)=	29.56	PASS
100	5500	13.30	5.000	18.30	67.559	30	or 17+10log(B)=	29.56	PASS
116	5580	17.92	5.000	22.92	195.742	30	or 17+10log(B)=	29.81	PASS
140	5700	12.66	5.000	17.66	58.302	30	or 17+10log(B)=	29.55	PASS

#### 802.11n\_HT20\_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
36	5180	10.65	5.000	15.65	36.702	23.01	or 10+10log(B)=	22.56	PASS
44	5220	10.68	5.000	15.68	36.956	23.01	or 10+10log(B)=	22.55	PASS
48	5240	10.88	5.000	15.88	38.698	23.01	or 10+10log(B)=	22.55	PASS
52	5260	17.88	5.000	22.88	193.948	30	or 17+10log(B)=	29.93	PASS
60	5300	17.89	5.000	22.89	194.395	30	or 17+10log(B)=	29.85	PASS
64	5320	16.53	5.000	21.53	142.130	30	or 17+10log(B)=	29.57	PASS
100	5500	13.28	5.000	18.28	67.249	30	or 17+10log(B)=	29.56	PASS
116	5580	17.63	5.000	22.63	183.098	30	or 17+10log(B)=	29.83	PASS
140	5700	12.63	5.000	17.63	57.901	30	or 17+10log(B)=	29.55	PASS

#### 802.11n\_HT20\_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
36	5180	13.80	8.010	21.81	151.645	23.01	or 10+10log(B)=	22.54	PASS
44	5220	13.81	8.010	21.82	152.165	23.01	or 10+10log(B)=	22.55	PASS
48	5240	13.72	8.010	21.73	149.037	23.01	or 10+10log(B)=	22.54	PASS
52	5260	20.92	8.010	28.93	781.176	30	or 17+10log(B)=	29.93	PASS
60	5300	20.80	8.010	28.81	760.868	30	or 17+10log(B)=	29.82	PASS
64	5320	19.38	8.010	27.39	547.991	30	or 17+10log(B)=	29.56	PASS
100	5500	16.25	8.010	24.26	266.530	30	or 17+10log(B)=	29.56	PASS
116	5580	20.77	8.010	28.78	755.160	30	or 17+10log(B)=	29.81	PASS
140	5700	15.68	8.010	23.69	234.042	30	or 17+10log(B)=	29.55	PASS

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#### 802.11n HT40 Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
38	5190	11.21	5.000	16.21	41.813	23.01	or 10+10log(B)=	25.60	PASS
46	5230	11.17	5.000	16.17	41.429	23.01	or 10+10log(B)=	25.60	PASS
54	5270	18.41	5.000	23.41	219.436	30	or 17+10log(B)=	32.77	PASS
62	5310	12.70	5.000	17.70	58.926	30	or 17+10log(B)=	32.60	PASS
102	5510	12.37	5.000	17.37	54.614	30	or 17+10log(B)=	32.60	PASS
110	5550	18.20	5.000	23.20	209.077	30	or 17+10log(B)=	32.67	PASS
134	5670	12.97	5.000	17.97	62.706	30	or 17+10log(B)=	32.60	PASS

#### 802.11n\_HT40\_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
38	5190	10.67	5.000	15.67	36.924	23.01	or 10+10log(B)=	25.60	PASS
46	5230	10.71	5.000	15.71	37.266	23.01	or 10+10log(B)=	25.60	PASS
54	5270	18.20	5.000	23.20	209.077	30	or 17+10log(B)=	32.77	PASS
62	5310	12.65	5.000	17.65	58.252	30	or 17+10log(B)=	32.60	PASS
102	5510	12.29	5.000	17.29	53.618	30	or 17+10log(B)=	32.59	PASS
110	5550	18.17	5.000	23.17	207.638	30	or 17+10log(B)=	32.67	PASS
134	5670	12.90	5.000	17.90	61.703	30	or 17+10log(B)=	32.60	PASS

#### 802.11n\_HT40\_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
38	5190	13.59	8.010	21.60	144.478	23.01	or 10+10log(B)=	25.60	PASS
46	5230	13.70	8.010	21.71	148.122	23.01	or 10+10log(B)=	25.60	PASS
54	5270	21.16	8.010	29.17	826.877	30	or 17+10log(B)=	32.77	PASS
62	5310	15.44	8.010	23.45	221.497	30	or 17+10log(B)=	32.60	PASS
102	5510	15.20	8.010	23.21	209.349	30	or 17+10log(B)=	32.59	PASS
110	5550	21.07	8.010	29.08	809.834	30	or 17+10log(B)=	32.67	PASS
134	5670	15.83	8.010	23.84	242.075	30	or 17+10log(B)=	32.60	PASS

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#### 802.11ac\_VHT80\_Ch0

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
42	5210	10.81	5.000	15.81	38.088	23.01	or 10+10log(B)=	28.79	PASS
58	5290	6.63	5.000	11.63	14.547	30	or 17+10log(B)=	35.79	PASS
106	5530	10.24	5.000	15.24	33.403	30	or 17+10log(B)=	35.79	PASS

#### 802.11ac\_VHT80\_Ch1

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)			RESULT
42	5210	10.31	5.000	15.31	33.946	23.01	23.01 or 10+10log(B)= 28.79		PASS
58	5290	6.60	5.000	11.60	14.447	30 or 17+10log(B)= 35.79		PASS	
106	5530	10.10	5.000	15.10	32.343	30	or 17+10log(B)=	35.79	PASS

#### 802.11ac\_VHT80\_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT	
42	5210	13.21	8.010	21.22	132.520	23.01	or 10+10log(B)=	28.79	PASS
58	5290	9.25	8.010	17.26	53.256	30	or 17+10log(B)=	35.79	PASS
106	5530	12.91	8.010	20.92	123.694	30	or 17+10log(B)=	35.79	PASS

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# **10 MAXIMUM POWER SPECTRAL DENSITY**

#### **Standard Applicable** 10.1

#### FCC

OPERZTION Band		EUT CATEGORY	LIMIT							
		Access Point (Master device)	17dBm/ MHz							
U-NII-1		Fixed point-to-point Access Ponit								
	$\checkmark$	Mobile and portable client device	11dBm/ MHz							
U-NII-2A	$\checkmark$		11dBm/ MHz							
U-NII-2C	$\checkmark$		11dBm/ MHz							
U-NII-3	$\checkmark$		30dBm/ 500kHz							
spectral dens	If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the anten- na exceeds 6 dBi.									

#### ISED

OPERZTION FREQUENCY BAND	LIMIT				
5150~5250 MHz	EIRP spectral density 10 dBm / MHz				
5250~5350 MHz	11dBm / MHz				
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz				
5725~5850 MHz	30dBm / 500 kHz				
For equipment operating in the band <b>5725-5850</b> MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by					

the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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## Note:

As per FCC KDB 662911 D01

a) Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

If any transmit signals are correlated with each other,

# i. Directional gain = GANT + 10 log(NANT) dBi

The antenna gain is grater than 6 dBi in MIMO mode, therefore the limit needs to be reduced as below

Frequency (MHz)	Effective Legacy Gain (dBi)	Conducted Power Limit (dBm)
UNII 1 5150-5250MHz	8.01	21.97
UNII 2 5250-5350MHz	8.01	21.97
UNII 2 5470-5725MHz	8.01	21.97
UNII 3 5725-5825MHz	8.01	27.99

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## 10.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 4. For U-NII1, U-NII-2A, U-NII-2C Band: Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth) For U-NII-3 Band:

Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

- 5. User the cursor on spectrum to peak search the highest level of trace
- 6. Record the max. reading and add 10 log(1/duty cycle).
- 7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
- Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

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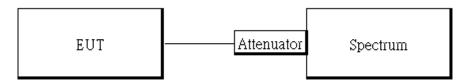
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#### 10.3 **Measurement Equipment Used**

	SG	S Conducted R	oom		
Name of Equip- ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EXA Spectrum Ana- lyzer	Agilent	N9010A	MY50420195	05/03/2018	05/02/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2018	01/01/2019
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2018	01/01/2019
Power Meter	Anritsu	ML2496A	1804001	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726104	02/01/2018	01/31/2019
Power Sensor	Anritsu	MA2411B	1726107	02/01/2018	01/31/2019

#### 10.4 Test Set-up



#### 10.5 **Measurement Result**

	POWER DENSITY 802.11a MODE									
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)				
5180	0.25	14.01	0.20	0.45	8.99	-8.54				
5220	0.32	14.01	0.20	0.52	8.99	-8.47				
5240	0.08	14.01	0.20	0.28	8.99	-8.71				
5260	6.87	14.01	0.20	7.07	8.99	-1.92				
5300	7.24	14.01	0.20	7.44	8.99	-1.55				
5320	4.90	14.01	0.20	5.10	8.99	-3.89				
5500	3.05	14.01	0.20	3.25	8.99	-5.74				
5580	7.18	14.01	0.20	7.38	8.99	-1.61				
5700	-3.11	14.01	0.20	-2.91	8.99	-11.90				
5745	15.51	14.01	-	15.51	27.99	-12.48				
5785	14.96	14.01	-	14.96	27.99	-13.03				
5825	14.70	14.01	-	14.70	27.99	-13.29				

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POWER DENSITY 802.11n HT20 MODE									
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)			
5180	-1.71	14.01	0.37	-1.34	8.9897	-10.33			
5220	-2.91	14.01	0.37	-2.54	8.9897	-11.53			
5240	-1.52	14.01	0.37	-1.15	8.9897	-10.14			
5260	4.37	14.01	0.37	4.74	8.9897	-4.25			
5300	4.84	14.01	0.37	5.21	8.9897	-3.78			
5320	3.87	14.01	0.37	4.24	8.9897	-4.75			
5500	-1.22	14.01	0.37	-0.85	8.9897	-9.84			
5580	3.74	14.01	0.37	4.11	8.9897	-4.88			
5700	-1.61	14.01	0.37	-1.24	8.9897	-10.23			
5745	14.70	14.01	-	14.70	27.99	-13.29			
5785	13.93	14.01	-	13.93	27.99	-14.06			
5825	14.40	14.01	-	14.40	27.99	-13.59			
	POWER D	ENSITY 8	802.11n H	IT40 MODE					
Frequency (MHz)	Frequency PPSD W/O		Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)			
5190	-7.89	14.01	0.75	-7.14	8.9897	-16.13			
5230	-8.22	14.01	0.75	-7.47	8.9897	-16.46			
5270	-0.88	14.01	0.75	-0.13	8.9897	-9.12			
5310	-7.78	14.01	0.75	-7.03	8.9897	-16.02			
5510	-7.17	14.01	0.75	-6.42	8.9897	-15.41			
5550	-1.75	14.01	0.75	-1.00	8.9897	-9.99			
5670	-7.49	14.01	0.75	-6.74	8.9897	-15.73			
5755	12.04	14.01	-	12.04	27.99	-15.95			
5795	11.82	14.01	-	11.82	27.99	-16.17			

POWER DENSITY 802.11ac VHT80 MODE										
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)				
5210	-14.02	14.01	0.71	-13.31	8.9897	-22.30				
5290	-18.38	14.01	0.71	-17.67	8.9897	-26.66				
5530	-13.72	14.01	0.71	-13.01	8.9897	-22.00				
5610	-8.43	14.01	0.71	-7.72	8.9897	-16.71				
5775	8.36	14.01	-	8.36	27.99	-19.63				

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E	EIRP spectral density 802.11a MODE					EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PPSD (dBm)	Ant. Gain	EIRP SD	Limit (dBm)	Margin (dB)
5180	0.45	8.01	8.46	10	-1.54	5180	-1.34	(dBi) 8.01	(dBm) 6.67	10	-3.33
5220	0.52	8.01	8.53	10	-1.47	5220	-2.54	8.01	5.47	10	-4.53
5240	0.28	8.01	8.29	10	-1.71	5240	-1.15	8.01	6.86	10	-3.14

EIRP spectral density 802.11n HT40 MODE											
Freq.	PPSD	Ant.	EIRP	Limit	Margin	EIRP	spectral	density	<sup>,</sup> 802.11a	c VHT80	MODE
(MHz)	(dBm)	Gain (dBi)	SD (dBm)	(dBm)	(dB)	Freq.	PPSD (dBm)	Ant. Gain	EIRP SD	Limit	Margin
5180	-7.14	8.01	0.87	10	-9.13	(MHz)	(авт)	(dBi)	(dBm)	(dBm)	(dB)
5220	-7.47	8.01	0.54	10	-9.46	5210	-13.31	8.01	-5.30	10	-15.30

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## 802.11a 20MHz 5180MHz



## 802.11a 20MHz 5220MHz



# 802.11a\_20MHz\_5240MHz



## 802.11a 20MHz 5260MHz



## 802.11a 20MHz 5300MHz



## 802.11a\_20MHz\_5320MHz



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## 802.11a 20MHz 5500MHz



## 802.11a 20MHz 5580MHz



# 802.11a\_20MHz\_5700MHz



## 802.11a 20MHz 5745MHz



## 802.11a 20MHz 5785MHz



## 802.11a\_20MHz\_5825MHz



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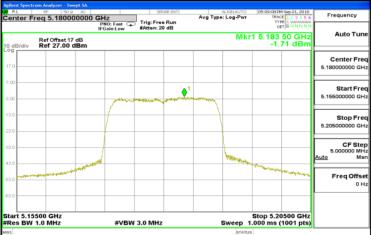
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## 802.11n 20MHz 5180MHz



## 802.11n 20MHz 5220MHz



# 802.11n\_20MHz\_5240MHz



## 802.11n 20MHz 5260MHz



## 802.11n 20MHz 5300MHz



## 802.11n\_20MHz\_5320MHz



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## 802.11n 20MHz 5500MHz



## 802.11n 20MHz 5580MHz



# 802.11n\_20MHz\_5700MHz



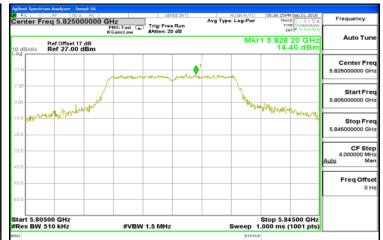
## 802.11n 20MHz 5745MHz



## 802.11n 20MHz 5785MHz



## 802.11n\_20MHz\_5825MHz



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## 802.11n 40MHz 5190MHz



## 802.11n 40MHz 5230MHz



# 802.11n\_40MHz\_5270MHz



# 802.11n 40MHz 5310MHz



## 802.11n\_40MHz 5510MHz



## 802.11n\_40MHz\_5550MHz



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## 802.11n 40MHz 5670MHz



## 802.11n 40MHz 5755MHz



## 802.11n\_40MHz\_5795MHz



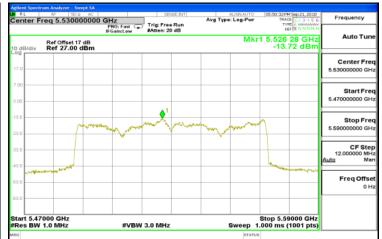
## 802.11ac 80MHz\_5210MHz



## 802.11ac\_80MHz\_5290MHz



## 802.11ac\_80MHz\_5530MHz



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#### 802.11ac 80MHz 5610MHz



## 802.11ac\_80MHz\_5775MHz

Agilent Spectrum Analyzer - Swept SA				
RL RF SOG AC	SENSE:			Frequency
Center Freq 5.775000000	PNO: Fast Trig: Free Ru IFGain:Low #Atten: 20 dB		TYPE MUNANNAN DET P N N N N N	
Ref Offset 17 dB 10 dB/div Ref 27.00 dBm		м	kr1 5.768 2 GHz 8.36 dBm	Auto Tune
17.0	1			Center Freq 5.775000000 GHz
3.00		alaaliadaaalaaaaaaa	marketer	Start Freq 5.725000000 GHz
-13.0 Hyperson				Stop Freq 5.82500000 GHz
43.0				CF Step 10.000000 MHz Auto Man
-53.0				Freq Offset 0 Hz
-63.0				
Start 5.72500 GHz #Res BW 510 kHz	#VBW 1.5 MHz	Sweep	Stop 5.82500 GHz 1.000 ms (1001 pts)	
M5G		STAT	US	

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# 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

#### **Standard Applicable** 11.1

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- 1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- 2. For transmitters operating in the 5.725-5.85 GHz band: 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.

APPLICABLE TO	LIMIT				
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m				
	PK: 74 (dBµV/m)	AV 54 (dBμV/m)			
APPLICABLE TO	EIRP LIMIT FIELD STRENGTH				
15.407(b)(1) RSS-247 6.2.1.2 15.407(b)(2) RSS-247 6.2.2.2 15.407(b)(3) RSS-247 6.2.3.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)			
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4			
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. = $((E^*d)^2)/30$ where E is the field in V/m, d is the measurement distance (3m). EIRP is the					

EIRP =  $((E^*d)^2)/30$ , where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

# Note:

1. The lower limit shall apply at the transition frequencies.

2. Emission level  $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$ 

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#### 11.2 **Measurement Equipment Used**

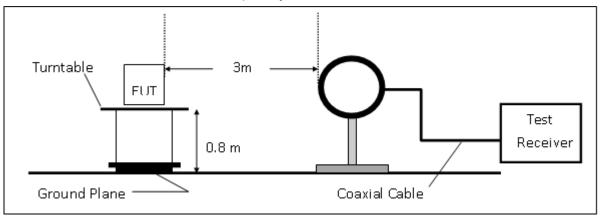
SGS SAC-III						
Name of Equip- ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Bi-log Antenna	SCHWAZBECK	VULB9168	378	12/29/2017	12/28/2018	
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/16/2018	08/15/2019	
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2017	12/11/2018	
Loop Antenna	ETS.LINDGREN	6502	148045	09/25/2018	09/24/2019	
3m Site NSA	SGS	966 chamber	N/A	01/02/2018	01/01/2019	
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/15/2018	05/14/2019	
EMI Test Receiver	R&S	ESCI7	100335	02/02/2018	02/01/2019	
Pre-Amplifier	HP	8449B	3008A00578	01/02/2018	01/01/2019	
Pre-Amplifier	HP	8447D	2944A07676	01/02/2018	01/01/2019	
Pre-Amplifier	EMC Instru- ments	EMC184045B	980135	10/27/2017	10/26/2018	
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019	
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2018	01/01/2019	
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2018	01/01/2019	
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2018	01/01/2019	
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2018	01/01/2019	

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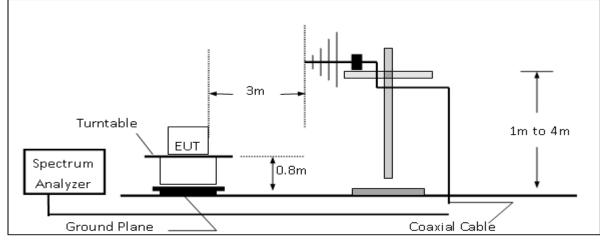


#### 11.3 Test SET-UP

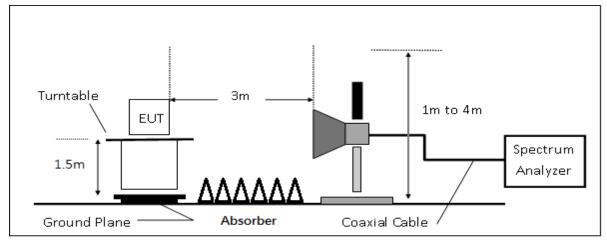
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



# (B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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#### 11.4 **Measurement Procedure**

- The EUT was placed on a turn table which is 0.8m above ground plane. 1.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 3. 1GHz above ground plane.
- The turn table shall rotate 360 degrees to determine the position of maximum emission level. 4.
- 5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and 6. Quasi-peak (QP) at frequency below 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency 7. above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T 8. (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- Maximum procedure was performed on the six highest emissions to ensure EUT compli-9. ance.
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 11. Repeat above procedures until all frequency measured were complete.

# 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	
	FS = Field Strength RA = Reading Amplitude

# FS = RA + AF + CI - AG

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

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# 11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

#### 11.7 **Measurement Result**

Refer to next page for tabular data sheets.

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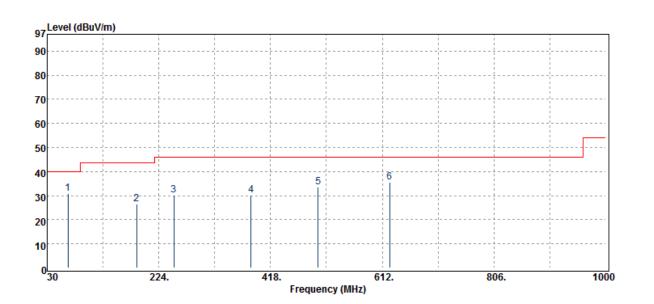
# **Radiated Spurious Emission Measurement Result**

### **Below 1GHz Worst-Case Data:**

### External Antenna (Type: Dipole antenna, Model No.: R380500314)

## 802.11a 5150~5250 MHz

Operation Band	:802.11aB1	Test Date	:2018-09-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
65.89	Peak	40.09	-9.20	30.89	40.00	-9.11
185.20	Peak	35.30	-8.64	26.66	43.50	-16.84
250.19	Peak	37.44	-7.40	30.04	46.00	-15.96
384.05	Peak	34.16	-3.79	30.37	46.00	-15.63
500.45	Peak	35.95	-2.36	33.59	46.00	-12.41
624.61	Peak	34.92	0.71	35.63	46.00	-10.37

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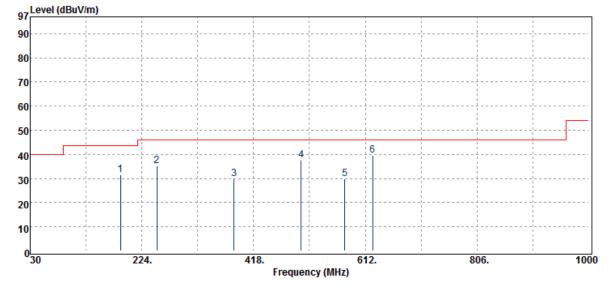
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Operation Band	:802.11aB1	Test Date	:2018-09-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
187.14	Peak	40.40	-8.78	31.62	43.50	-11.88
250.19	Peak	42.48	-7.40	35.08	46.00	-10.92
384.05	Peak	33.69	-3.79	29.90	46.00	-16.10
500.45	Peak	40.12	-2.36	37.76	46.00	-8.24
576.11	Peak	29.97	-0.11	29.86	46.00	-16.14
624.61	Peak	38.90	0.71	39.61	46.00	-6.39

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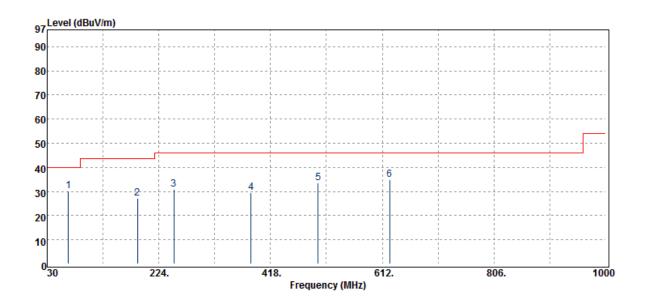
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### 802.11a 5250~5350 MHz

Operation Band	:802.11aB2
Fundamental Frequency	:5300 MHz
Operation Mode	:Tx CH MID
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	39.66	-9.42	30.24	40.00	-9.76
187.14	Peak	35.95	-8.78	27.17	43.50	-16.33
250.19	Peak	38.24	-7.40	30.84	46.00	-15.16
384.05	Peak	33.20	-3.79	29.41	46.00	-16.59
500.45	Peak	35.96	-2.36	33.60	46.00	-12.40
624.61	Peak	34.32	0.71	35.03	46.00	-10.97

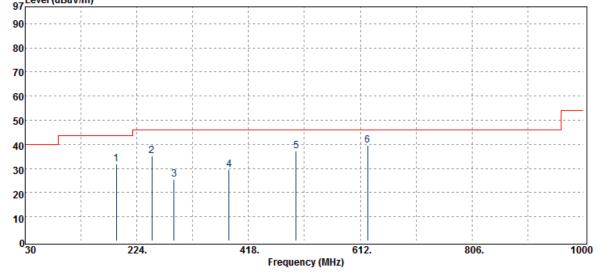
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Operation Band	:802.11aB2	Test Date	:2018-09-20
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
Level (dBuV/m)			



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
188.11	Peak	40.57	-8.84	31.73	43.50	-11.77
250.19	Peak	42.56	-7.40	35.16	46.00	-10.84
288.99	Peak	31.33	-5.86	25.47	46.00	-20.53
384.05	Peak	33.42	-3.79	29.63	46.00	-16.37
500.45	Peak	39.76	-2.36	37.40	46.00	-8.60
624.61	Peak	38.99	0.71	39.70	46.00	-6.30

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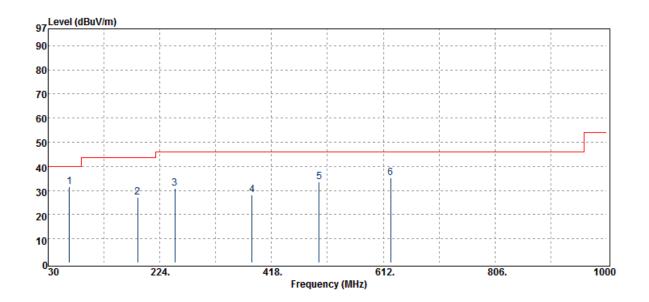


#### 802.11a, 5470~5725 MHz

Operation Band	:802.11aB3
Fundamental Frequency	:5580 MHz
Operation Mode	:Tx CH MID
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	40.82	-9.42	31.40	40.00	-8.60
185.20	Peak	35.93	-8.64	27.29	43.50	-16.21
250.19	Peak	38.13	-7.40	30.73	46.00	-15.27
384.05	Peak	32.15	-3.79	28.36	46.00	-17.64
500.45	Peak	35.76	-2.36	33.40	46.00	-12.60
624.61	Peak	34.45	0.71	35.16	46.00	-10.84

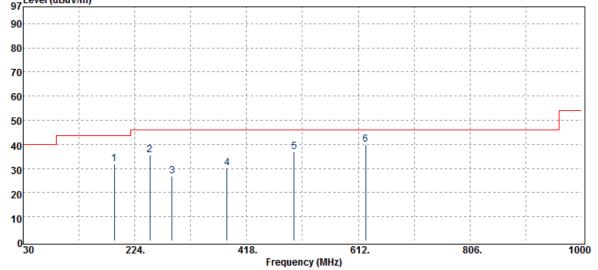
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Operation Band	:802.11aB3	Test Date	:2018-09-20
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
Level (dBuV/m)			



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
188.11	Peak	40.72	-8.84	31.88	43.50	-11.62
250.19	Peak	42.86	-7.40	35.46	46.00	-10.54
288.99	Peak	32.59	-5.86	26.73	46.00	-19.27
384.05	Peak	33.84	-3.79	30.05	46.00	-15.95
500.45	Peak	39.30	-2.36	36.94	46.00	-9.06
624.61	Peak	39.13	0.71	39.84	46.00	-6.16

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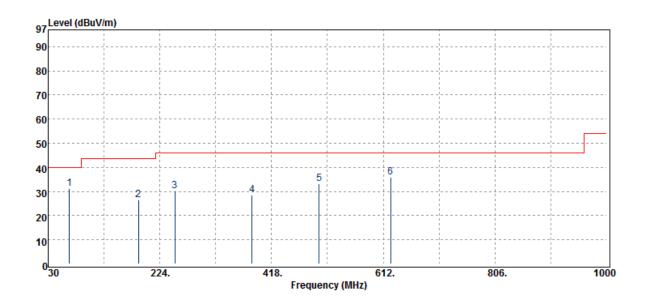
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### 802.11a, 5725~5850 MHz

302.11aB4
5785 MHz
Tx CH MID
E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	40.58	-9.42	31.16	40.00	-8.84
187.14	Peak	35.35	-8.78	26.57	43.50	-16.93
250.19	Peak	37.60	-7.40	30.20	46.00	-15.80
384.05	Peak	32.37	-3.79	28.58	46.00	-17.42
500.45	Peak	35.65	-2.36	33.29	46.00	-12.71
624.61	Peak	35.23	0.71	35.94	46.00	-10.06

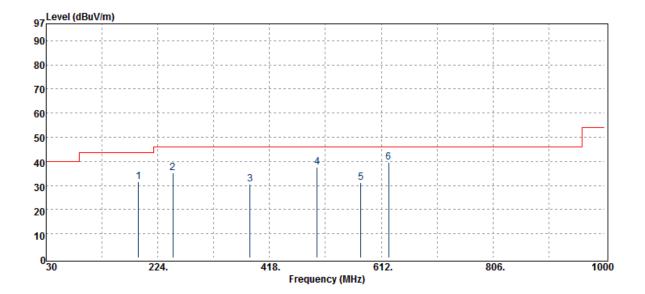
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Operation Band	:802.11aB4	Test Date	:2018-09-20
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
190.05	Peak	40.35	-8.96	31.39	43.50	-12.11
250.19	Peak	42.49	-7.40	35.09	46.00	-10.91
384.05	Peak	34.20	-3.79	30.41	46.00	-15.59
500.45	Peak	39.99	-2.36	37.63	46.00	-8.37
576.11	Peak	31.18	-0.11	31.07	46.00	-14.93
624.61	Peak	38.91	0.71	39.62	46.00	-6.38

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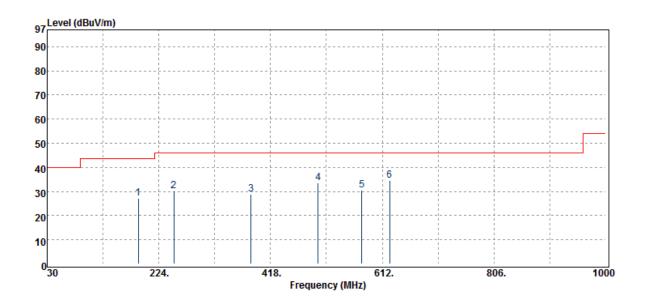
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# 802.11ac VHT80, 5150~5250 MHz

:802.11ac80B1
:5210 MHz
:Tx CH LOW
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
188.11	Peak	36.14	-8.84	27.30	43.50	-16.20
250.19	Peak	37.55	-7.40	30.15	46.00	-15.85
384.05	Peak	32.53	-3.79	28.74	46.00	-17.26
500.45	Peak	35.85	-2.36	33.49	46.00	-12.51
576.11	Peak	30.51	-0.11	30.40	46.00	-15.60
624.61	Peak	33.96	0.71	34.67	46.00	-11.33

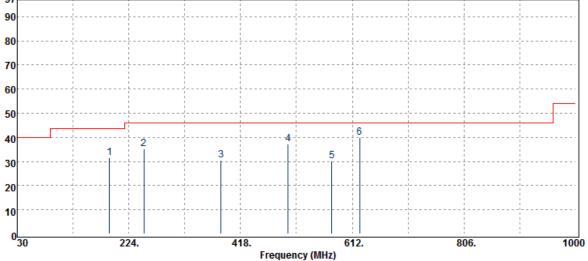
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:802.11ac80B1	Test Date	:2018-09-20
:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
:Tx CH LOW	Engineer	:Wei
:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
	:5210 MHz :Tx CH LOW	:5210 MHz Temp./Humi. :Tx CH LOW Engineer



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
190.05	Peak	40.62	-8.96	31.66	43.50	-11.84
250.19	Peak	42.49	-7.40	35.09	46.00	-10.91
384.05	Peak	34.37	-3.79	30.58	46.00	-15.42
500.45	Peak	39.50	-2.36	37.14	46.00	-8.86
576.11	Peak	30.44	-0.11	30.33	46.00	-15.67
624.61	Peak	39.16	0.71	39.87	46.00	-6.13

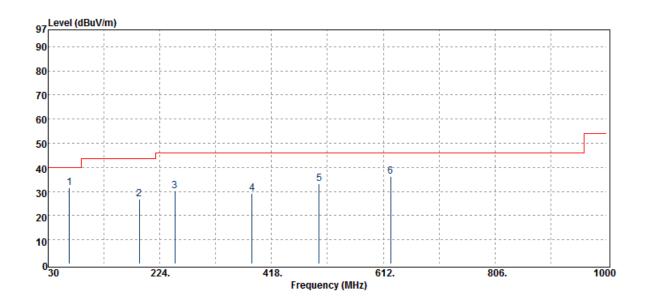
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# 802.11ac VHT80, 5250~5350 MHz

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	41.04	-9.42	31.62	40.00	-8.38
188.11	Peak	35.67	-8.84	26.83	43.50	-16.67
250.19	Peak	37.46	-7.40	30.06	46.00	-15.94
384.05	Peak	32.85	-3.79	29.06	46.00	-16.94
500.45	Peak	35.75	-2.36	33.39	46.00	-12.61
624.61	Peak	35.45	0.71	36.16	46.00	-9.84

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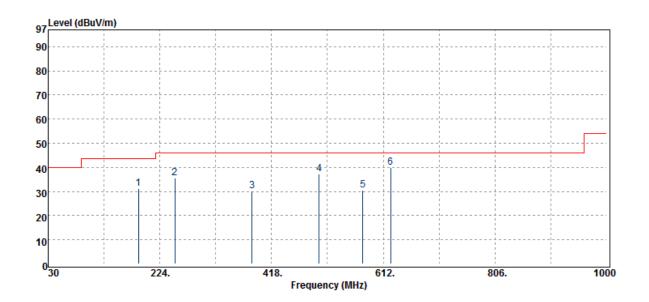
Report No.: ER/2018/90026 Page: 101 of 385



Operation Band Fundamental Frequency	:802.11ac80B2 :5290 MHz
Operation Mode EUT Pol.	:5290 MHZ :Tx CH HIGH :E2 Plane
LOTTOI.	

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
187.14	Peak	40.15	-8.78	31.37	43.50	-12.13
250.19	Peak	42.89	-7.40	35.49	46.00	-10.51
384.05	Peak	34.04	-3.79	30.25	46.00	-15.75
500.45	Peak	39.49	-2.36	37.13	46.00	-8.87
576.11	Peak	30.66	-0.11	30.55	46.00	-15.45
624.61	Peak	39.36	0.71	40.07	46.00	-5.93

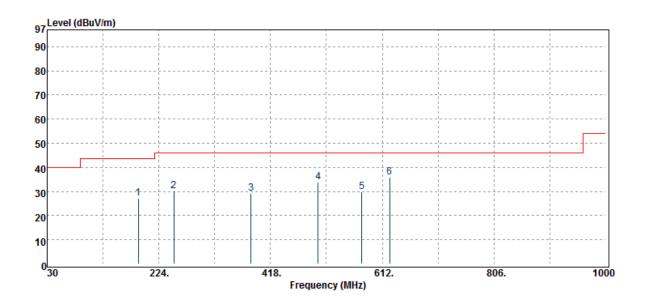
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# 802.11ac VHT80, 5470~5725 MHz

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
188.11	Peak	36.00	-8.84	27.16	43.50	-16.34
250.19	Peak	37.67	-7.40	30.27	46.00	-15.73
384.05	Peak	33.01	-3.79	29.22	46.00	-16.78
500.45	Peak	36.25	-2.36	33.89	46.00	-12.11
576.11	Peak	30.08	-0.11	29.97	46.00	-16.03
624.61	Peak	35.11	0.71	35.82	46.00	-10.18

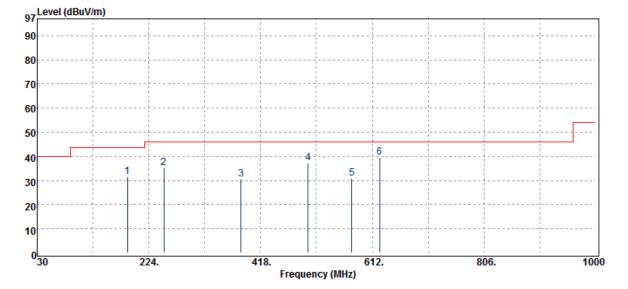
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Operation Band	:802.11ac80B3	Test Date	:2018-09-20
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
187.14	Peak	40.28	-8.78	31.50	43.50	-12.00
250.19	Peak	42.52	-7.40	35.12	46.00	-10.88
384.05	Peak	34.30	-3.79	30.51	46.00	-15.49
500.45	Peak	39.54	-2.36	37.18	46.00	-8.82
576.11	Peak	30.87	-0.11	30.76	46.00	-15.24
624.61	Peak	38.89	0.71	39.60	46.00	-6.40

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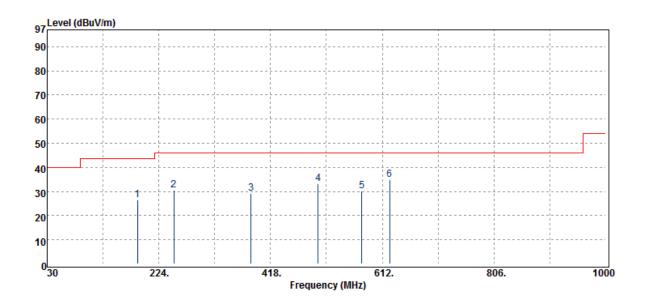
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# 802.11ac VHT80, 5725~5850 MHz

Operation Band	:802.11ac80B4
Fundamental Frequency	:5775 MHz
Operation Mode	Tx CH LOW
EUT Pol.	:E2 Plane
EUT POI.	.EZ FIAITE

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
187.14	Peak	35.24	-8.78	26.46	43.50	-17.04
250.19	Peak	37.84	-7.40	30.44	46.00	-15.56
384.05	Peak	33.10	-3.79	29.31	46.00	-16.69
500.45	Peak	35.73	-2.36	33.37	46.00	-12.63
576.11	Peak	30.29	-0.11	30.18	46.00	-15.82
624.61	Peak	34.21	0.71	34.92	46.00	-11.08

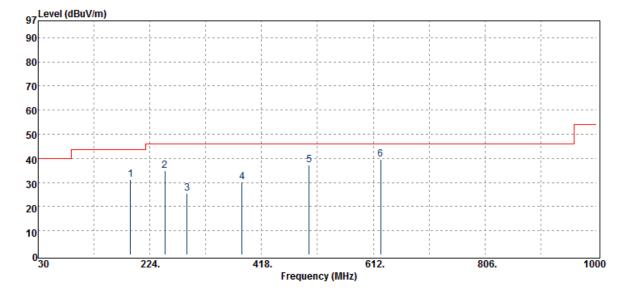
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Operation Band	:802.11ac80B4	Test Date	:2018-09-20
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
190.05	Peak	40.33	-8.96	31.37	43.50	-12.13
250.19	Peak	42.46	-7.40	35.06	46.00	-10.94
288.99	Peak	31.42	-5.86	25.56	46.00	-20.44
384.05	Peak	33.90	-3.79	30.11	46.00	-15.89
500.45	Peak	39.52	-2.36	37.16	46.00	-8.84
624.61	Peak	38.75	0.71	39.46	46.00	-6.54

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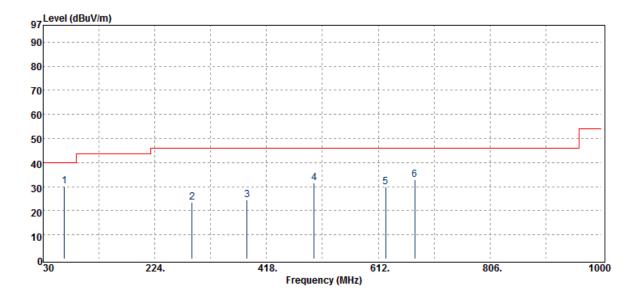
# Internal Antenna (Type: Printed antenna, Model no: N/A)

### 802.11a 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB1 :5220 MHz :Tx CH MID :E2 Plane

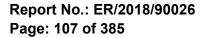
Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	39.51	-9.42	30.09	40.00	-9.91
288.99	Peak	29.27	-5.86	23.41	46.00	-22.59
384.05	Peak	28.41	-3.79	24.62	46.00	-21.38
500.45	Peak	34.01	-2.36	31.65	46.00	-14.35
624.61	Peak	29.20	0.71	29.91	46.00	-16.09
675.05	Peak	31.67	1.37	33.04	46.00	-12.96

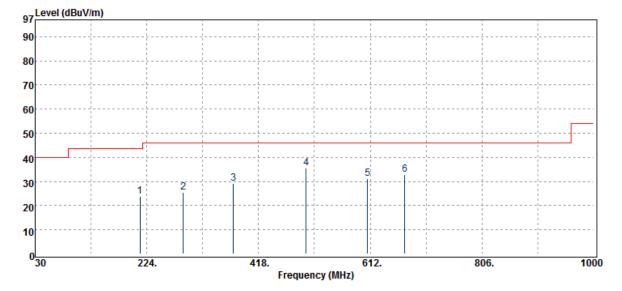
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Operation Band	:802.11aB1	Test Date	:2018-09-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
212.36	Peak	32.87	-9.20	23.67	43.50	-19.83
287.05	Peak	31.37	-5.92	25.45	46.00	-20.55
374.35	Peak	33.27	-3.96	29.31	46.00	-16.69
500.45	Peak	37.93	-2.36	35.57	46.00	-10.43
607.15	Peak	31.54	-0.38	31.16	46.00	-14.84
672.14	Peak	31.90	0.99	32.89	46.00	-13.11

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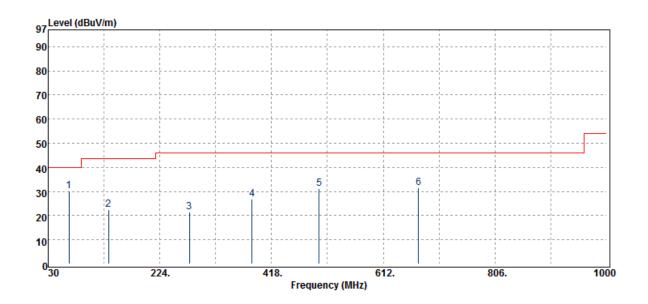
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### 802.11a 5250~5350 MHz

Operation Band	:802.11aB2
Fundamental Frequency	:5300 MHz
Operation Mode	:Tx CH MID
EUT Pol.	:E2 Plane

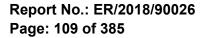
Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
65.89	Peak	39.36	-9.20	30.16	40.00	-9.84
134.76	Peak	30.93	-8.55	22.38	43.50	-21.12
275.41	Peak	27.98	-6.38	21.60	46.00	-24.40
384.05	Peak	30.74	-3.79	26.95	46.00	-19.05
500.45	Peak	33.64	-2.36	31.28	46.00	-14.72
673.11	Peak	30.49	1.11	31.60	46.00	-14.40

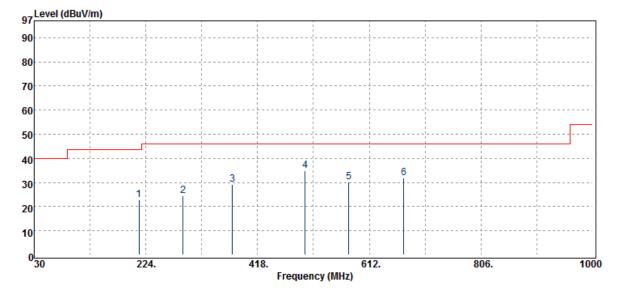
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Operation Band	:802.11aB2	Test Date	:2018-09-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
212.36	Peak	31.86	-9.20	22.66	43.50	-20.84
288.99	Peak	30.48	-5.86	24.62	46.00	-21.38
374.35	Peak	33.28	-3.96	29.32	46.00	-16.68
500.45	Peak	37.37	-2.36	35.01	46.00	-10.99
576.11	Peak	30.27	-0.11	30.16	46.00	-15.84
672.14	Peak	30.86	0.99	31.85	46.00	-14.15

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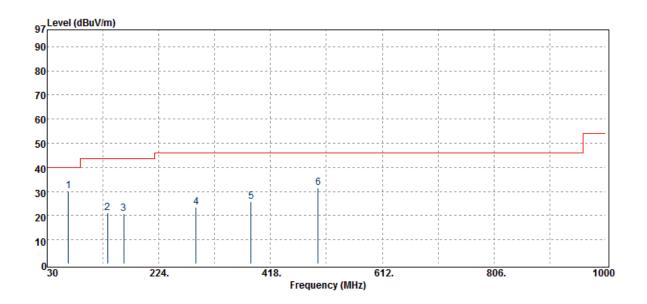


#### 802.11a, 5470~5725 MHz

Operation Band	:802.11aB3
Fundamental Frequency	:5580 MHz
Operation Mode	:Tx CH MID
EUT Pol.	:E2 Plane
•	-

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

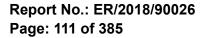
:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	39.53	-9.42	30.11	40.00	-9.89
134.76	Peak	29.73	-8.55	21.18	43.50	-22.32
162.89	Peak	28.16	-7.23	20.93	43.50	-22.57
288.99	Peak	29.30	-5.86	23.44	46.00	-22.56
384.05	Peak	29.64	-3.79	25.85	46.00	-20.15
500.45	Peak	33.75	-2.36	31.39	46.00	-14.61

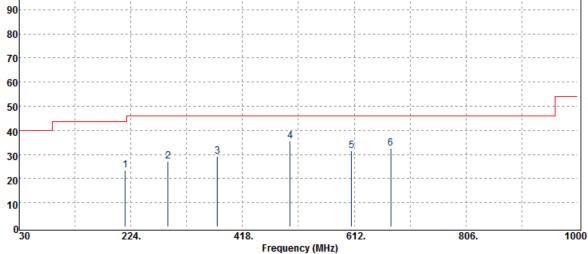
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Operation Band Fundamental Frequency Operation Mode EUT Pol. 97	:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane		Test Date Temp./Humi. Engineer Measurement Antenn	:2018-09-28 :23 deg_C / 62 RH :Wei a Pol. :HORIZONTAL
97				
30		1 1		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
214.30	Peak	32.79	-9.17	23.62	43.50	-19.88
288.99	Peak	32.99	-5.86	27.13	46.00	-18.87
374.35	Peak	33.21	-3.96	29.25	46.00	-16.75
500.45	Peak	37.95	-2.36	35.59	46.00	-10.41
607.15	Peak	31.80	-0.38	31.42	46.00	-14.58
675.05	Peak	31.18	1.37	32.55	46.00	-13.45

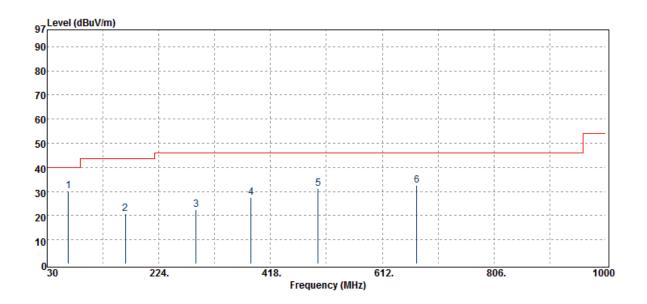
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#### 802.11a, 5725~5850 MHz

02.11aB4
785 MHz
x CH MID
2 Plane

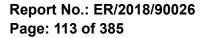
Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	39.52	-9.42	30.10	40.00	-9.90
165.80	Peak	28.13	-7.32	20.81	43.50	-22.69
288.99	Peak	28.25	-5.86	22.39	46.00	-23.61
384.05	Peak	31.21	-3.79	27.42	46.00	-18.58
500.45	Peak	33.66	-2.36	31.30	46.00	-14.70
672.14	Peak	31.51	0.99	32.50	46.00	-13.50

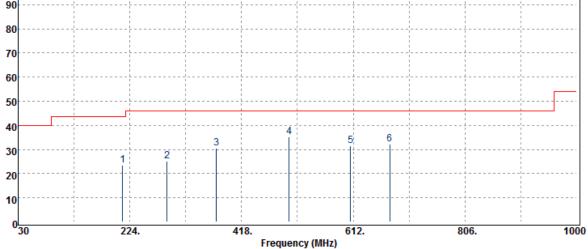
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Operation Band Fundamental Frequency Operation Mode EUT Pol. 97 <sup>Level (dBuV/m)</sup>	:802.11aB4 :5785 MHz :Tx CH MID :E2 Plane			Test Date Temp./Hu Engineer Measurer	mi.	enna Pol.	:2018-09-28 :23 deg_C / 62 RH :Wei :HORIZONTAL
90							
90			1 1 1				



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
211.39	Peak	32.82	-9.23	23.59	43.50	-19.91
288.99	Peak	31.05	-5.86	25.19	46.00	-20.81
374.35	Peak	34.42	-3.96	30.46	46.00	-15.54
500.45	Peak	37.68	-2.36	35.32	46.00	-10.68
607.15	Peak	32.03	-0.38	31.65	46.00	-14.35
675.05	Peak	30.85	1.37	32.22	46.00	-13.78

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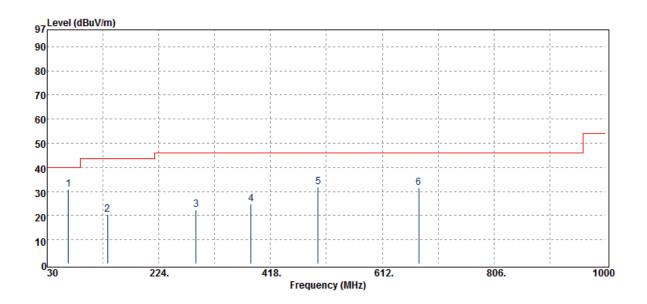
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# 802.11ac VHT80, 5150~5250 MHz

:802.11ac80B1
:5210 MHz
:Tx CH LOW
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	40.28	-9.42	30.86	40.00	-9.14
134.76	Peak	29.04	-8.55	20.49	43.50	-23.01
288.99	Peak	28.35	-5.86	22.49	46.00	-23.51
384.05	Peak	28.73	-3.79	24.94	46.00	-21.06
500.45	Peak	34.36	-2.36	32.00	46.00	-14.00
675.05	Peak	30.19	1.37	31.56	46.00	-14.44

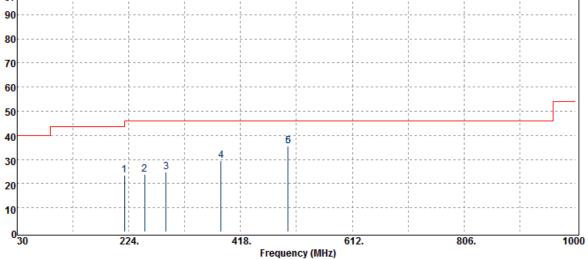
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Operation Band Fundamental Frequency Operation Mode EUT Pol.	:802.11ac80B1 :5210 MHz :Tx CH LOW :E2 Plane	Test Date Temp./Humi. Engineer Measurement A	ntenna Pol.	:2018-09-28 :23 deg_C / 62 RH :Wei :HORIZONTAL
97Level (dBuV/m)				



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
216.24	Peak	32.57	-9.14	23.43	46.00	-22.57
251.16	Peak	31.02	-7.34	23.68	46.00	-22.32
288.99	Peak	30.80	-5.86	24.94	46.00	-21.06
384.05	Peak	33.39	-3.79	29.60	46.00	-16.40
500.45	Peak	37.87	-2.36	35.51	46.00	-10.49
500.45	Peak	37.87	-2.36	35.51	46.00	-10.49

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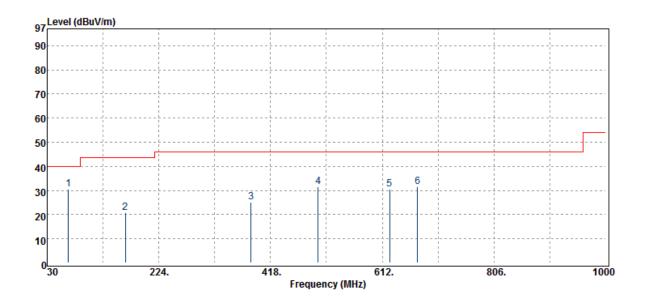
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## 802.11ac VHT80, 5250~5350 MHz

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	39.92	-9.42	30.50	40.00	-9.50
165.80	Peak	27.97	-7.32	20.65	43.50	-22.85
384.05	Peak	29.02	-3.79	25.23	46.00	-20.77
500.45	Peak	33.91	-2.36	31.55	46.00	-14.45
624.61	Peak	29.72	0.71	30.43	46.00	-15.57
673.11	Peak	30.60	1.11	31.71	46.00	-14.29

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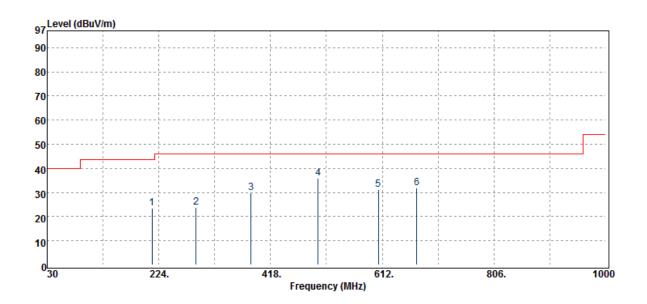
Report No.: ER/2018/90026 Page: 117 of 385



Operation Band :802 Fundamental Frequency :529	0 MHz
	CH HIGH Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
212.36	Peak	32.79	-9.20	23.59	43.50	-19.91
288.99	Peak	29.60	-5.86	23.74	46.00	-22.26
384.05	Peak	33.54	-3.79	29.75	46.00	-16.25
500.45	Peak	38.29	-2.36	35.93	46.00	-10.07
605.21	Peak	31.87	-0.66	31.21	46.00	-14.79
672.14	Peak	30.84	0.99	31.83	46.00	-14.17

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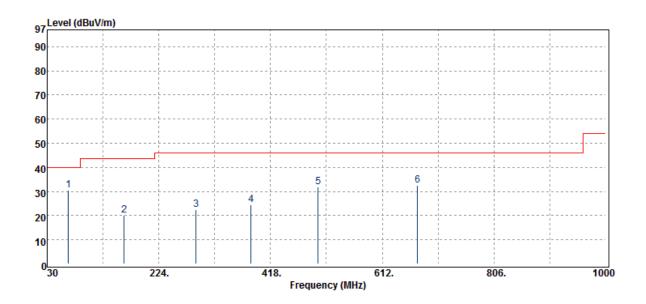
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# 802.11ac VHT80, 5470~5725 MHz

Operation Band	:802.11ac80B3
Fundamental Frequency Operation Mode	:5530 MHz :Tx CH LOW
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
66.86	Peak	40.01	-9.42	30.59	40.00	-9.41
163.86	Peak	27.53	-7.27	20.26	43.50	-23.24
288.99	Peak	28.39	-5.86	22.53	46.00	-23.47
384.05	Peak	28.37	-3.79	24.58	46.00	-21.42
500.45	Peak	34.32	-2.36	31.96	46.00	-14.04
673.11	Peak	31.40	1.11	32.51	46.00	-13.49

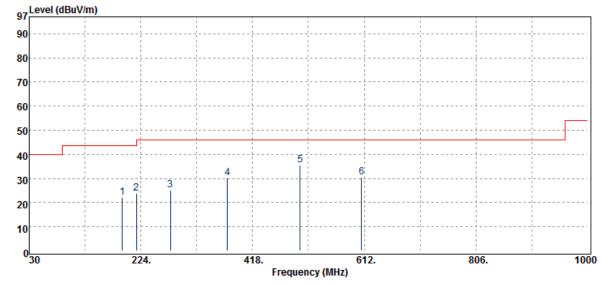
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Operation Band	:802.11ac80B3	Test Date	:2018-09-28
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
191.99	Peak	31.23	-9.03	22.20	43.50	-21.30
216.24	Peak	33.10	-9.14	23.96	46.00	-22.04
275.41	Peak	31.51	-6.38	25.13	46.00	-20.87
374.35	Peak	34.05	-3.96	30.09	46.00	-15.91
500.45	Peak	37.89	-2.36	35.53	46.00	-10.47
607.15	Peak	31.09	-0.38	30.71	46.00	-15.29

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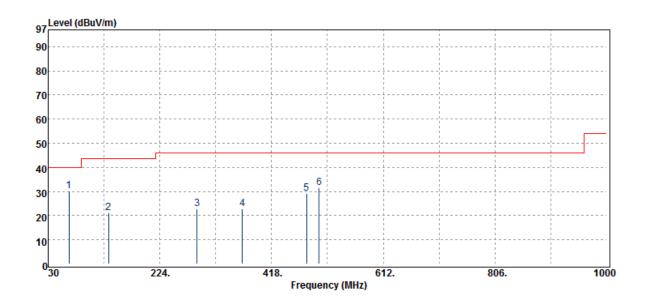
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### 802.11ac VHT80, 5725~5850 MHz

V

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
65.89	Peak	39.45	-9.20	30.25	40.00	-9.75
134.76	Peak	29.61	-8.55	21.06	43.50	-22.44
288.99	Peak	28.53	-5.86	22.67	46.00	-23.33
367.56	Peak	26.94	-4.01	22.93	46.00	-23.07
479.11	Peak	31.44	-2.10	29.34	46.00	-16.66
500.45	Peak	33.77	-2.36	31.41	46.00	-14.59

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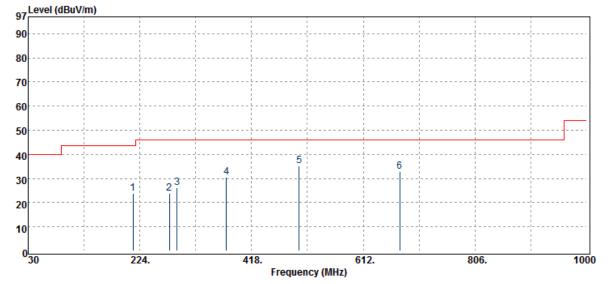
www.tw.sgs.com

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62 RH



Operation Band	:802.11ac80B4	Test Date	:2018-09-28
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
212.36	Peak	32.91	-9.20	23.71	43.50	-19.79
275.41	Peak	30.23	-6.38	23.85	46.00	-22.15
288.99	Peak	32.01	-5.86	26.15	46.00	-19.85
374.35	Peak	34.55	-3.96	30.59	46.00	-15.41
500.45	Peak	37.62	-2.36	35.26	46.00	-10.74
675.05	Peak	31.65	1.37	33.02	46.00	-12.98

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



# Above 1GHz Worst-Case Data:

#### External Antenna (Type: Dipole antenna, Model No.: R380500314)

#### Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Band	:80
Fundamental Frequency	:51
Operation Mode	:T>
EUT Pol.	:E2

Peak

10360.00

02.11aB1 180 MHz x CH LOW 2 Plane

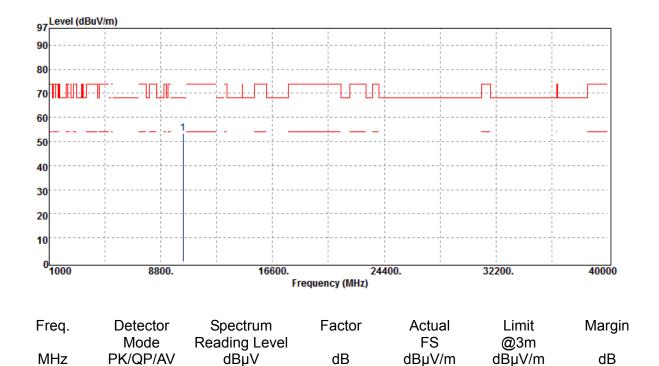
Test Date Temp./Humi. Engineer Measurement Antenna Pol.

68.20

-14.73

53.47

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



19.71

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33.76

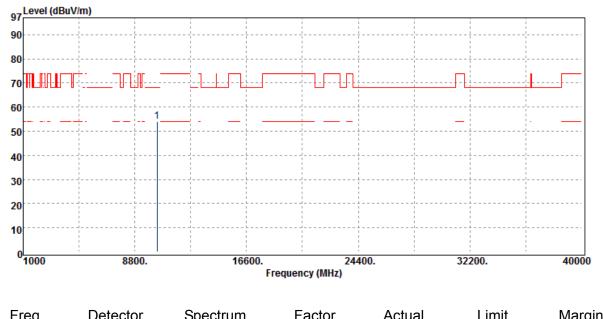
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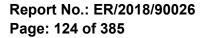
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Operation Band	:802.11aB1	Test Date	:2018-09-20
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

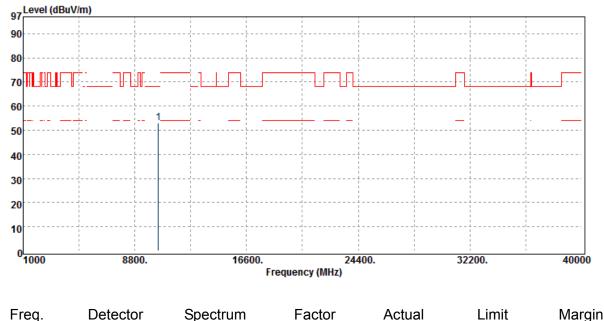


rieq.	Delector	opectium	1 actor	Actual	LIIIIL	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	34.28	19.71	53.99	68.20	-14.21

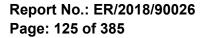




Operation Band	:802.11aB1	Engineer	:2018-09-20
Fundamental Frequency	:5220 MHz		:23 deg_C / 62 RH
Operation Mode	:Tx CH MID		:Wei
EUT Pol.	:E2 Plane		:VERTICAL
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei

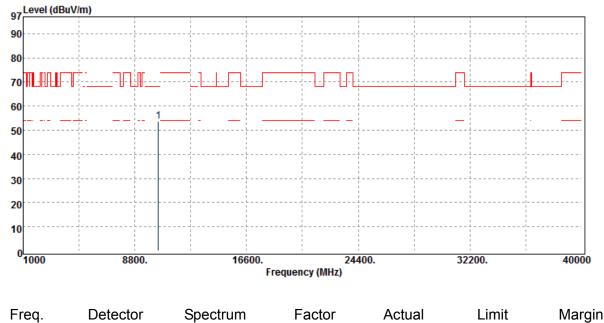


	Mode	Reading Level	1 40101	FS	@3m	inc. gill
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	33.11	20.05	53.16	68.20	-15.04





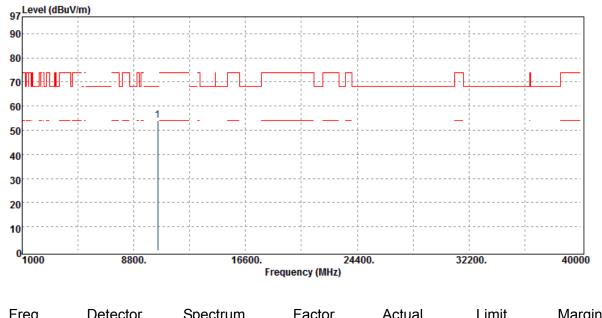
Operation Band	:802.11aB1	Test Date	:2018-09-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



ricq.	Mode	Reading Level	1 40101	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	33.77	20.05	53.82	68.20	-14.38



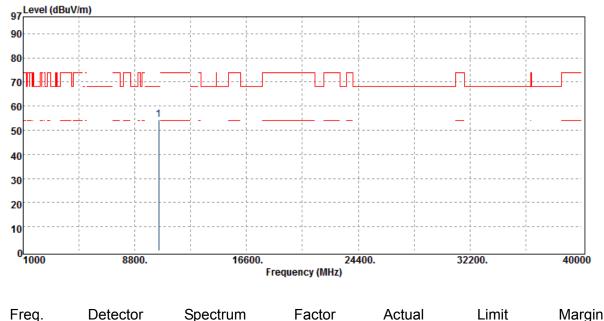
Fundamental Frequency :524 Operation Mode :Tx C	.11aB1 0 MHz CH HIGH Plane	Engineer	:2018-09-20 :23 deg_C / 62 RH :Wei :VERTICAL
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ricq.	Delector	opeoutium	1 actor	Actual	LIIIII	margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	33.98	20.07	54.05	68.20	-14.15



Operation Band	:802.11aB1	Test Date	:2018-09-20
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



ricq.	Detector	opeou	1 40101	7101001	Linne	margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10480.00	Peak	34.37	20.07	54.44	68.20	-13.76	



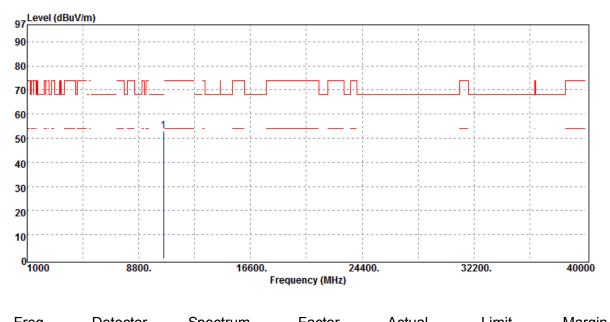
### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB2 :5260 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL

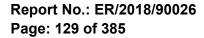


Freq.	Delector	Spectrum	Factor	Actual	LIMIL	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10520.00	Peak	33.19	20.00	53.19	68.20	-15.01	_

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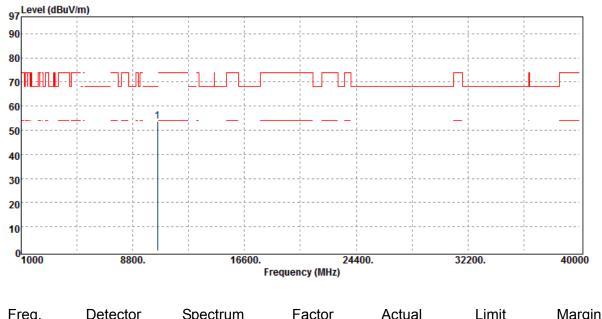
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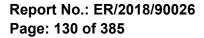
Operation Band	:802.11aB2	Test Date	:2018-09-20
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



1109.	Detector	opeourum	1 40101	7101001	Luint	margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	33.68	20.00	53.68	68.20	-14.52

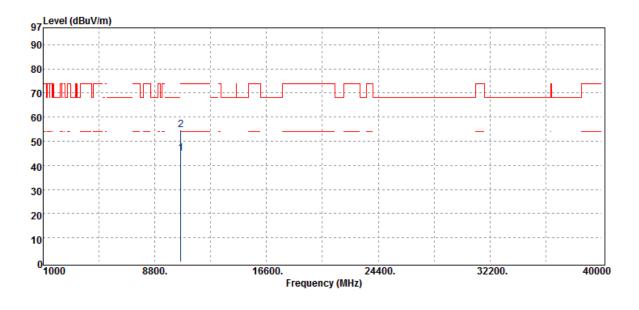
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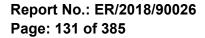




Operation Band	:802.11aB2	Test Date	:2018-09-20
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



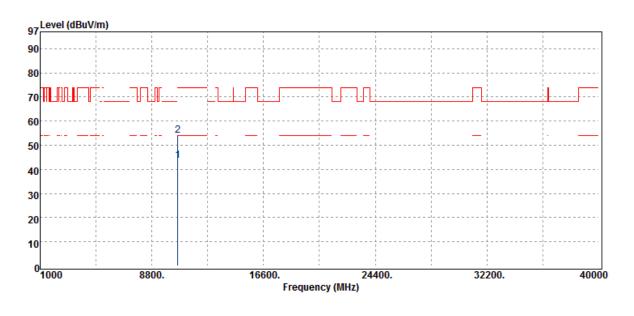
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	Average	24.67	20.38	45.05	54.00	-8.95
10600.00	Peak	34.18	20.38	54.56	74.00	-19.44





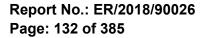
Operation Mode:Tx CH MIDEngineerEUT Pol.:E2 PlaneMeasuremer	mi. nent Antenna Pol.
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:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



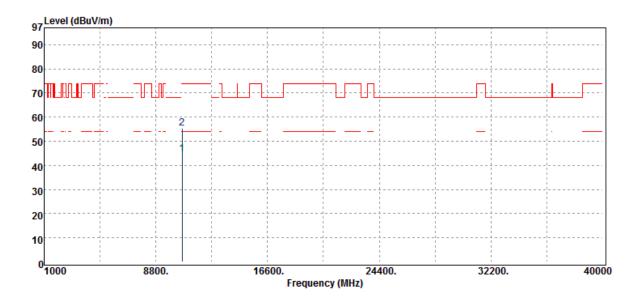
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10600.00	Average	23.37	20.38	43.75	54.00	-10.25	•
10600.00	Peak	33.81	20.38	54.19	74.00	-19.81	

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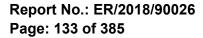




Operation Band	:802.11aB2	Test Date	:2018-09-20
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	24.33	20.44	44.77	54.00	-9.23
10640.00	Peak	34.79	20.44	55.23	74.00	-18.77

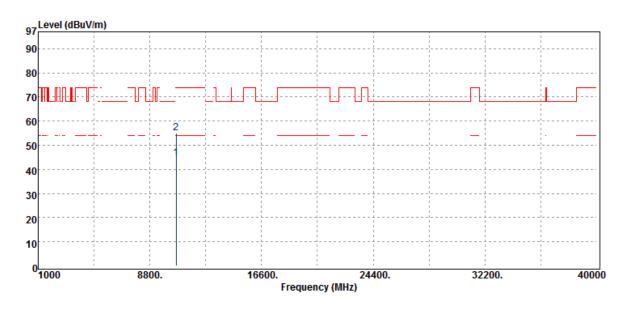




Operation Band	:802.11aB2
Fundamental Frequency	:5320 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	24.23	20.44	44.67	54.00	-9.33
10640.00	Peak	34.49	20.44	54.93	74.00	-19.07

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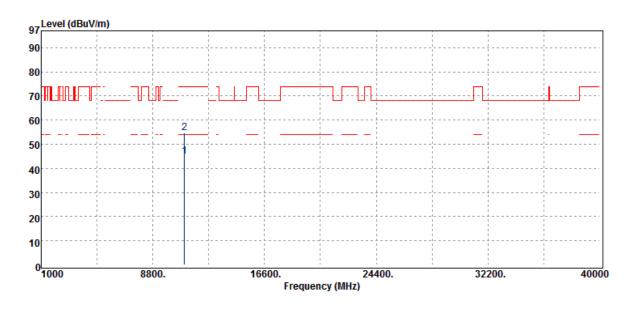
# Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB3 :5500 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL

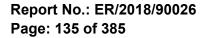


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	23.71	21.37	45.08	54.00	-8.92
11000.00	Peak	33.50	21.37	54.87	74.00	-19.13

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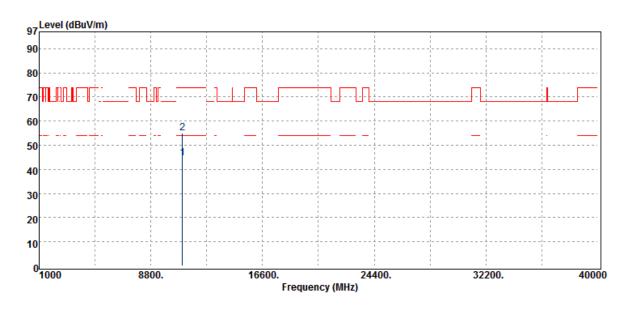




Operation Band	:802.11aB3
Fundamental Frequency	:5500 MHz
Operation Mode	:Tx CH LOW
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

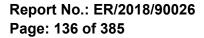
:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	23.27	21.37	44.64	54.00	-9.36
11000.00	Peak	33.78	21.37	55.15	74.00	-18.85

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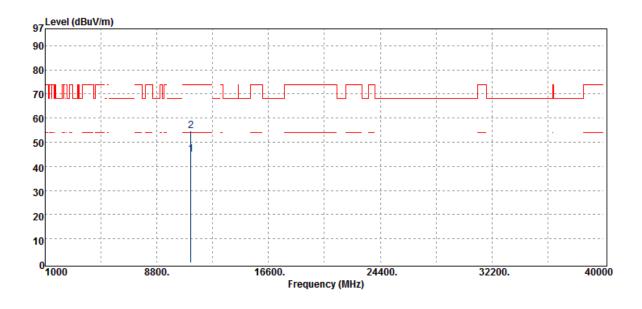
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RH



Operation Band	:802.11aB3	Test Date	:2018-09-20
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



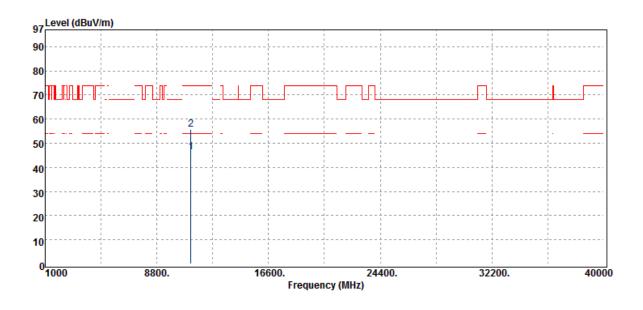
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	23.41	21.51	44.92	54.00	-9.08
11160.00	Peak	33.36	21.51	54.87	74.00	-19.13

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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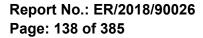
Operation Band	:802.11aB3	Test Date	:2018-09-20
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane		:HORIZONTAL
		Measurement Antenna i oi.	INTECNIZONIAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	24.71	21.51	46.22	54.00	-7.78
11160.00	Peak	34.06	21.51	55.57	74.00	-18.43

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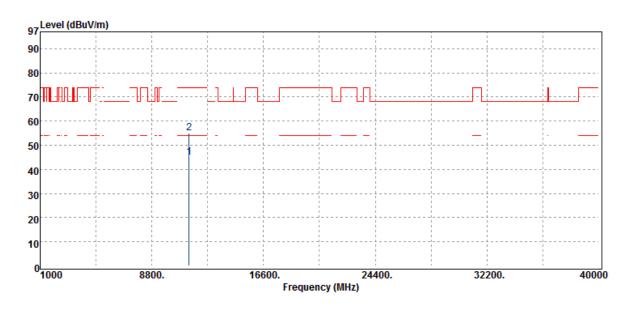




Operation Band	:802.11aB3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

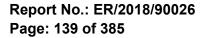
:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	23.37	21.62	44.99	54.00	-9.01
11400.00	Peak	33.50	21.62	55.12	74.00	-18.88

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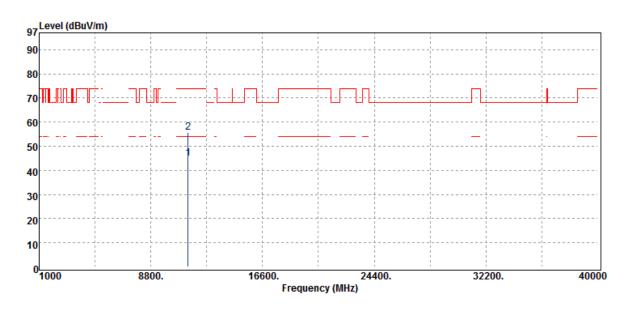




Operation Band	:802.11aB3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	23.47	21.62	45.09	54.00	-8.91
11400.00	Peak	33.98	21.62	55.60	74.00	-18.40

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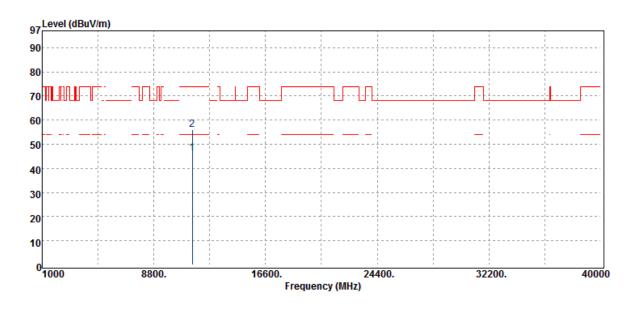
# Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB4 :5745 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL

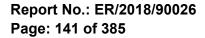


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	24.62	21.61	46.23	54.00	-7.77
11490.00	Peak	34.43	21.61	56.04	74.00	-17.96

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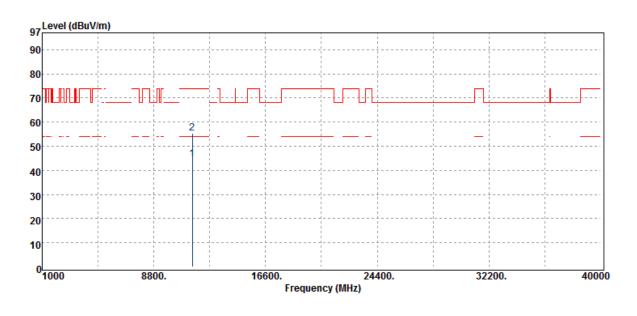




Operation Band	:802.11aB4	Test Date
Fundamental Frequency	:5745 MHz	Temp./Humi.
Operation Mode	:Tx CH LOW	Engineer
EUT Pol.	:E2 Plane	Measurement Antenr
EUT Pol.	:E2 Plane	

na Pol.

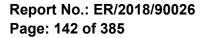
:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	23.12	21.61	44.73	54.00	-9.27
11490.00	Peak	33.71	21.61	55.32	74.00	-18.68

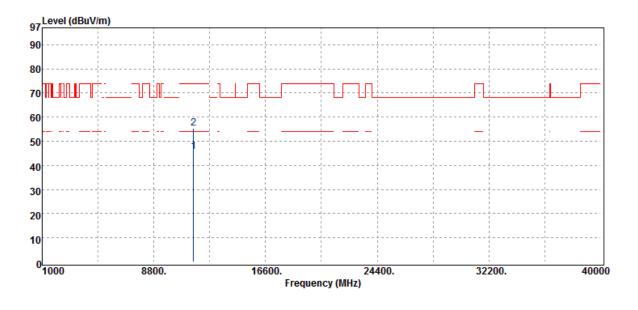
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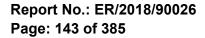




Operation Band	:802.11aB4	Test Date	:2018-09-20
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

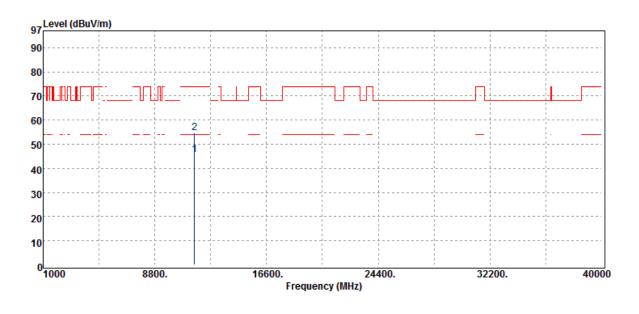


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11570.00	Average	23.98	21.66	45.64	54.00	-8.36	•
11570.00	Peak	33.60	21.66	55.26	74.00	-18.74	

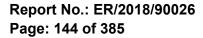




Operation Band:802.11aB4Fundamental Frequency:5785 MHzOperation Mode:Tx CH MIDEUT Pol.:E2 Plane	Test Date Temp./Humi. Engineer Measurement Antenna Pol.	:2018-09-20 :23 deg_C / 62 RH :Wei :HORIZONTAL
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Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.88	21.66	45.54	54.00	-8.46
11570.00	Peak	33.22	21.66	54.88	74.00	-19.12

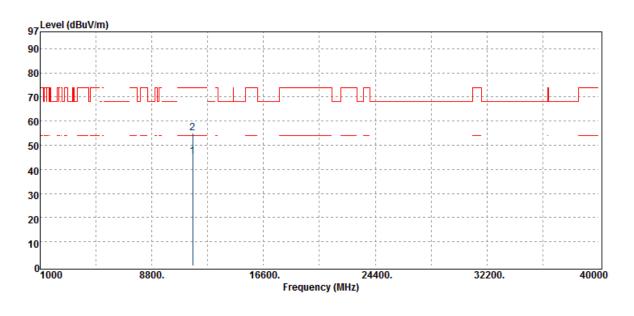




Operation Band	:802.11aB4
Fundamental Frequency	:5825 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

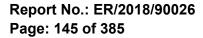
:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11650.00	Average	23.69	21.60	45.29	54.00	-8.71	-
11650.00	Peak	33.55	21.60	55.15	74.00	-18.85	

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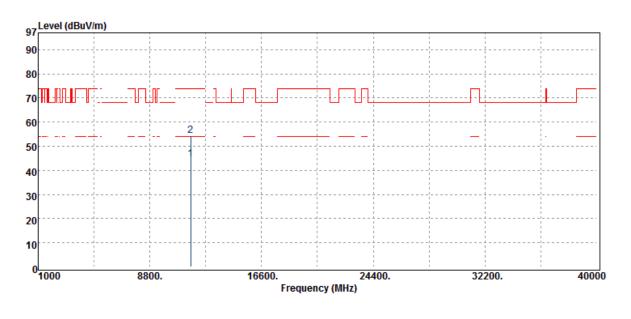




Operation Band	:802.11aB4
Fundamental Frequency	:5825 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	22.97	21.60	44.57	54.00	-9.43
11650.00	Peak	32.90	21.60	54.50	74.00	-19.50

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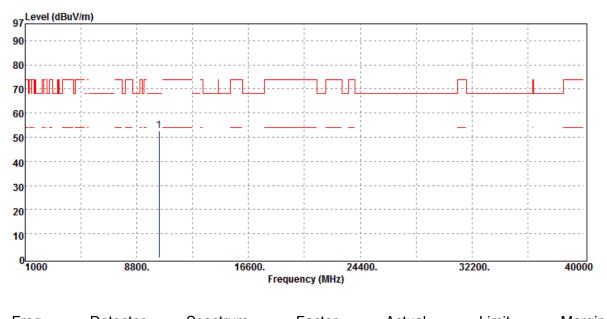
# Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B1 :5180 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



⊢req.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10360.00	Peak	33.14	19.71	52.85	68.20	-15.35	_

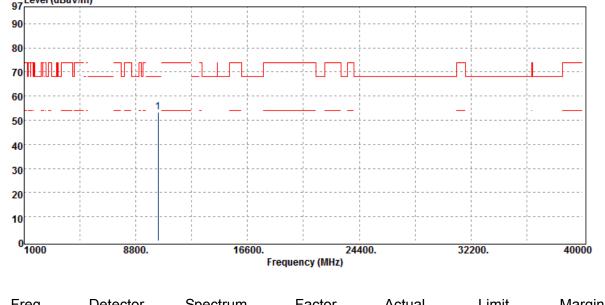
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Operation Band	:802.11n20B1	Test Date	:2018-09-20
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
Level (dBuV/m)			



Fieq.	Delecioi	Spectrum	Facilli	Actual	LIIIIL	Maryin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10360.00	Peak	33.77	19.71	53.48	68.20	-14.72	

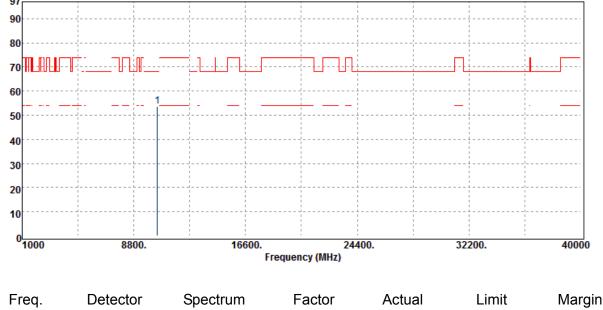
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Operation Band	:802.11n20B1	Test Date	:2018-09-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL
97 Level (dBuV/m)		· · · · · · · · · · · · · · · · · · ·	



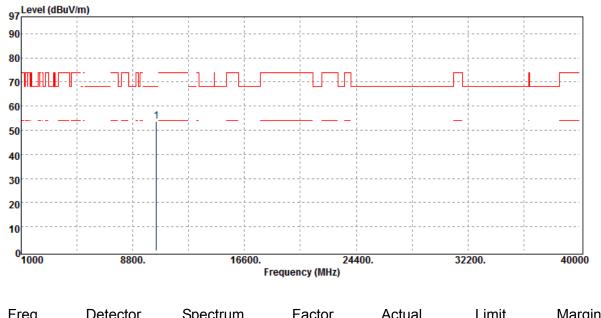
1104.	Mode	Reading Level	1 40101	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	33.74	20.05	53.79	68.20	-14.41

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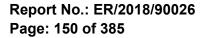


Operation Band	:802.11n20B1	Test Date	:2018-09-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



rieq.	Delector	opectium	racior	Actual		margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10440.00	Peak	33.58	20.05	53.63	68.20	-14.57	

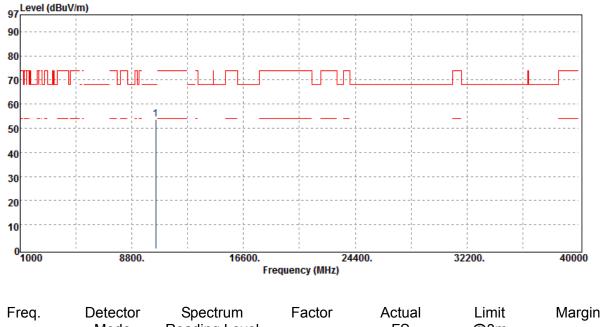
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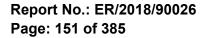
Operation Band	:802.11n20B1	Test Date
Fundamental Frequency	:5240 MHz	Temp./Humi.
Operation Mode	:Tx CH HIGH	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



	Mode	Reading Level	i dotoi	FS	@3m	ina giri
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	33.69	20.07	53.76	68.20	-14.44

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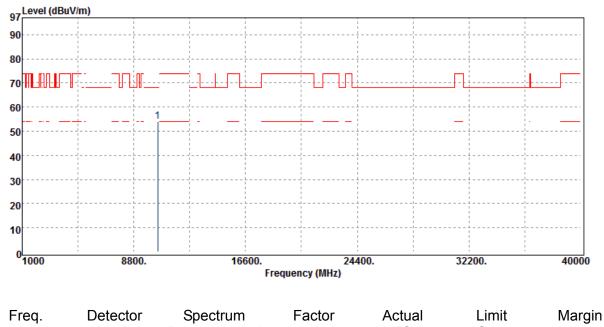




Operation Band	:802.11n20B1
Fundamental Frequency	:5240 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	34.08	20.07	54.15	68.20	-14.05

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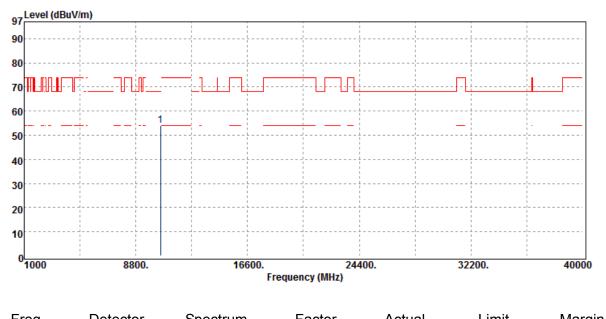
# Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B2 :5260 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Delector	Spectrum	Factor	Actual		wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10520.00	Peak	33.94	20.00	53.94	68.20	-14.26	

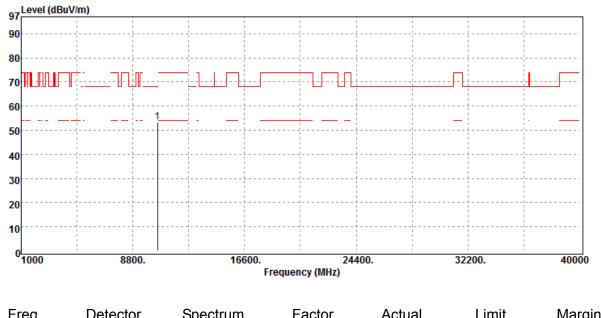
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Operation Band	:802.11n20B2	Test Date	:2018-09-20
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



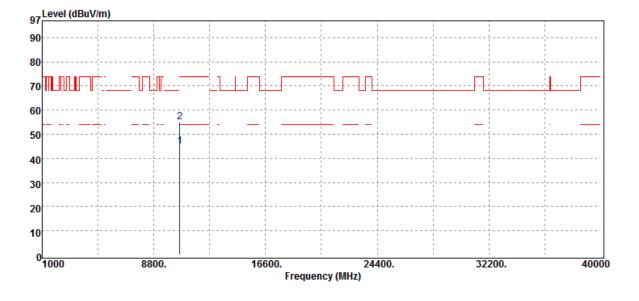
ricq.	Delector	opectium	1 actor	Actual		margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	33.43	20.00	53.43	68.20	-14.77

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Band	:802.11n20B2	Test Date	:2018-09-20
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10600.00	Average	24.63	20.38	45.01	54.00	-8.99	
10600.00	Peak	34.76	20.38	55.14	74.00	-18.86	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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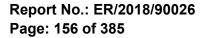


Operation Band	:802.11n20B2	Test Date	:2018-09-20
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane		:HORIZONTAL

,Level (dBuV/m) 97 90 80 70 60 50 40 30 20 10 0<mark>1000</mark> 8800. 16600. 40000 24400. 32200. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	Average	24.47	20.38	44.85	54.00	-9.15
10600.00	Peak	34.23	20.38	54.61	74.00	-19.39

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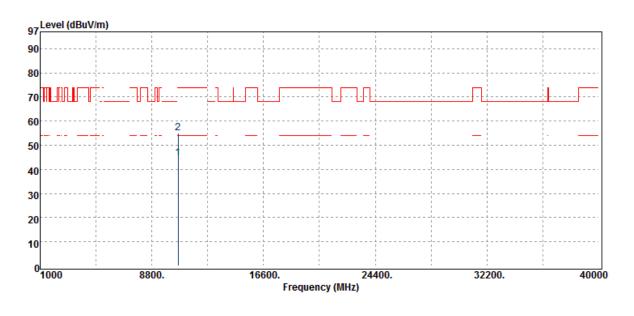




Operation Band	:802.11n20B2
Fundamental Frequency	:5320 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	24.28	20.44	44.72	54.00	-9.28
10640.00	Peak	34.71	20.44	55.15	74.00	-18.85

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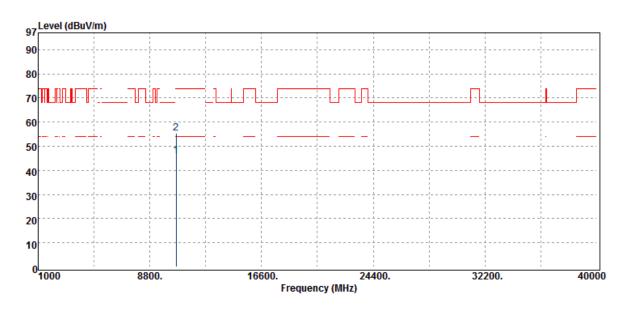
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Operation Band	:802.11n20B2
Fundamental Frequency	:5320 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	25.38	20.44	45.82	54.00	-8.18
10640.00	Peak	35.04	20.44	55.48	74.00	-18.52

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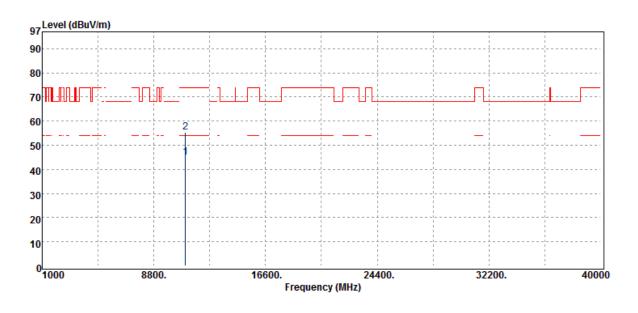
## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	23.75	21.37	45.12	54.00	-8.88
11000.00	Peak	33.98	21.37	55.35	74.00	-18.65

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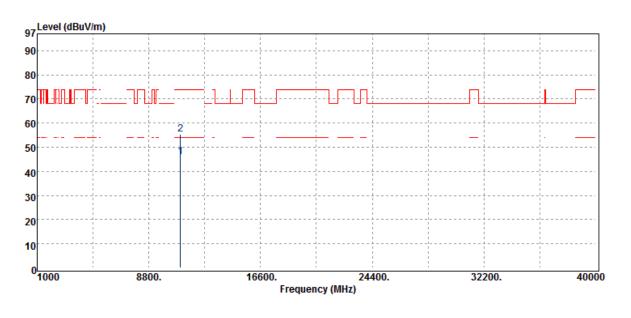
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Operation Band	:802.11n20B3	Test Date
Fundamental Frequency	:5500 MHz	Temp./Humi.
Operation Mode	:Tx CH LOW	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL

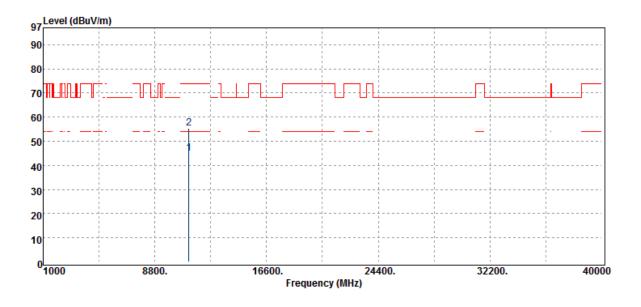


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	24.57	21.37	45.94	54.00	-8.06
11000.00	Peak	34.15	21.37	55.52	74.00	-18.48

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Operation Band	:802.11n20B3	Test Date	:2018-09-20
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	23.41	21.51	44.92	54.00	-9.08
11160.00	Peak	33.78	21.51	55.29	74.00	-18.71

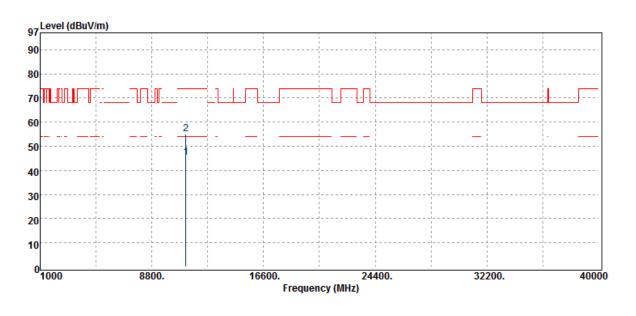
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Band Fundamental Frequency Operation Mode	:802.11n20B3 :5580 MHz :Tx CH MID :F2 Plana	Test Date Temp./Humi. Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	23.66	21.51	45.17	54.00	-8.83
11160.00	Peak	33.56	21.51	55.07	74.00	-18.93

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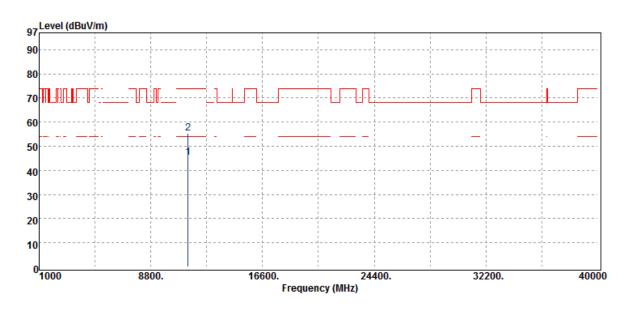
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Operation Band	:802.11n20B3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	23.75	21.62	45.37	54.00	-8.63
11400.00	Peak	33.68	21.62	55.30	74.00	-18.70

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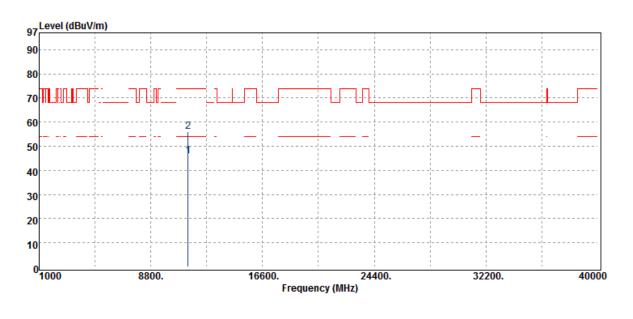
Report No.: ER/2018/90026 Page: 163 of 385



:802.11n20B3
:5700 MHz
:Tx CH HIGH
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11400.00	Average	24.47	21.62	46.09	54.00	-7.91	•
11400.00	Peak	34.33	21.62	55.95	74.00	-18.05	

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



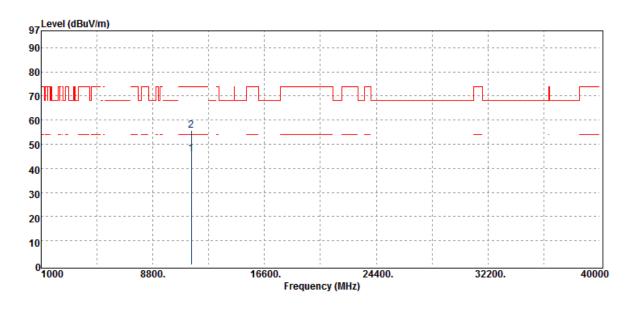
# Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5745 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	24.43	21.61	46.04	54.00	-7.96
11490.00	Peak	34.15	21.61	55.76	74.00	-18.24

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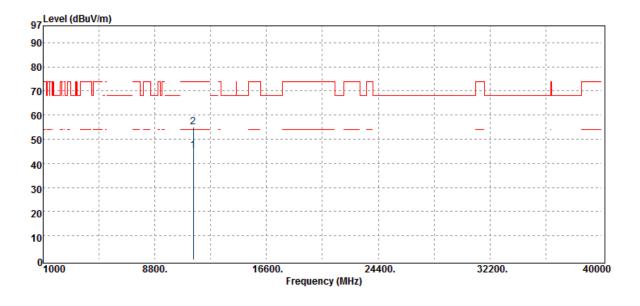
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Operation Band	:802.11n20B4	Test Date	:2018-09-20
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

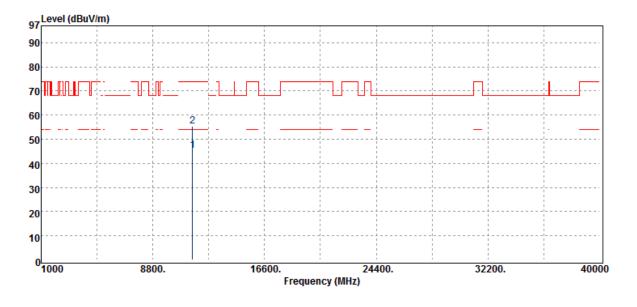


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	23.77	21.61	45.38	54.00	-8.62
11490.00	Peak	33.38	21.61	54.99	74.00	-19.01

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Operation Band	:802.11n20B4	Test Date	:2018-09-20
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



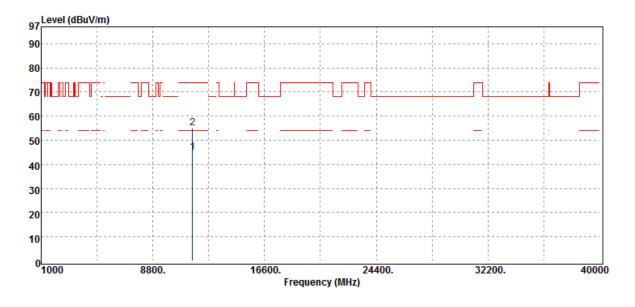
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.59	21.66	45.25	54.00	-8.75
11570.00	Peak	33.67	21.66	55.33	74.00	-18.67

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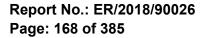


Operation Band	:802.11n20B4	Engineer	:2018-09-20
Fundamental Frequency	:5785 MHz		:23 deg_C / 62 RH
Operation Mode	:Tx CH MID		:Wei
EUT Pol.	:E2 Plane		:HORIZONTAL
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZON IAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.48	21.66	45.14	54.00	-8.86
11570.00	Peak	33.25	21.66	54.91	74.00	-19.09

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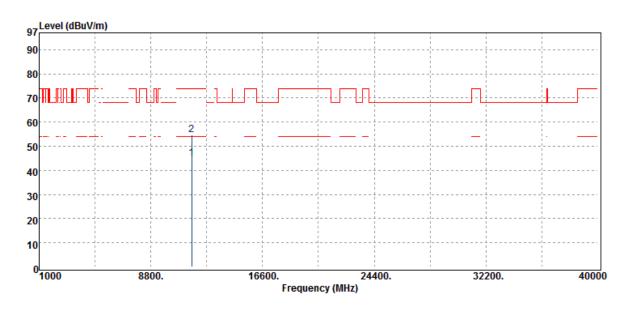




Operation Band	:802.11n20B4
Fundamental Frequency	:5825 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

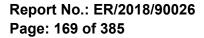
:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	23.37	21.60	44.97	54.00	-9.03
11650.00	Peak	33.06	21.60	54.66	74.00	-19.34

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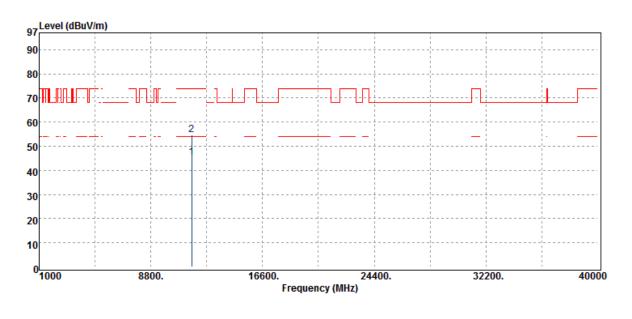




:802.11n20B4
:5825 MHz
:Tx CH HIGH
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	23.87	21.60	45.47	54.00	-8.53
11650.00	Peak	33.08	21.60	54.68	74.00	-19.32

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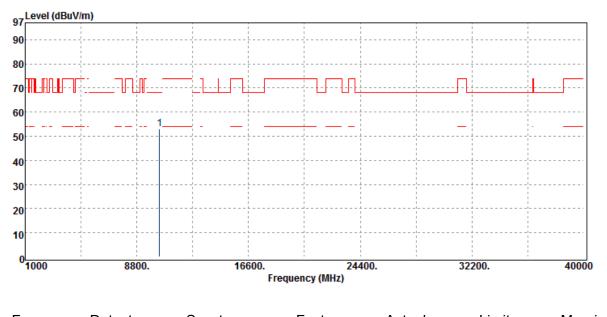
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B1 :5190 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
10380.00	Peak	33.33	19.78	53.11	68.20	-15.09	-

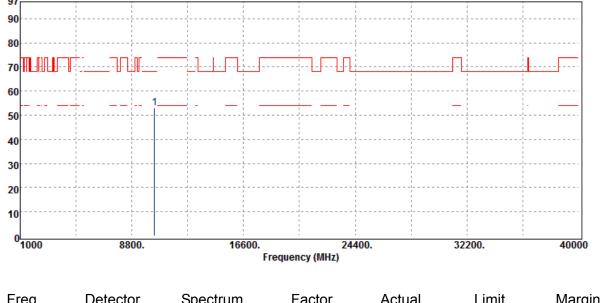
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Operation Band	:802.11n40B1	Test Date	:2018-09-20
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
97Level (dBuV/m)			



rieq.	Delector	opectium	1 actor	Actual	LIIIIL	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	Peak	33.26	19.78	53.04	68.20	-15.16

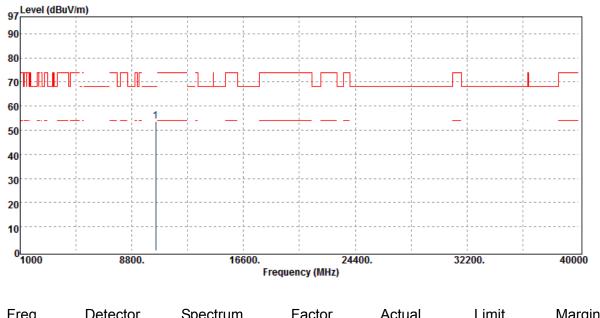
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Operation Band	:802.11n40B1	Test Date	:2018-09-20
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



rieq.	Delector	opectium	1 actor	Actual	LIIII	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10460.00	Peak	33.63	20.07	53.70	68.20	-14.50	

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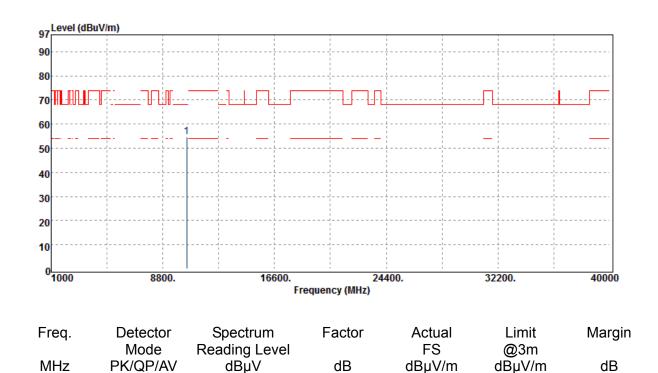


10460.00

Peak

Fundamental Frequency Operation Mode	:802.11n40B1 :5230 MHz :Tx CH HIGH :E2 Plane	Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



20.07

54.66

68.20

-13.54

I lalage etheration stated the results shown in this test report refer on	ly to the sample(s) tested and such sample(s) are retained for 90 days only.

34.59



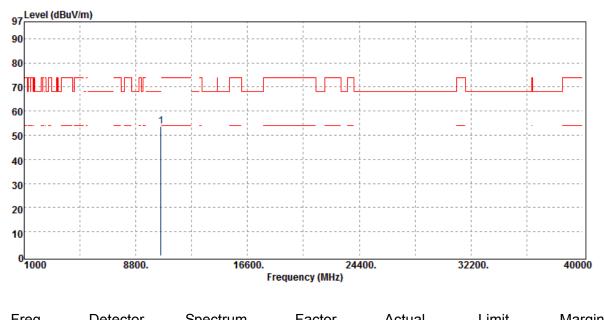
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B2 :5270 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Fieq.	Mode	Reading Level	Facior	FS	@3m	wargin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	Peak	33.82	20.02	53.84	68.20	-14.36

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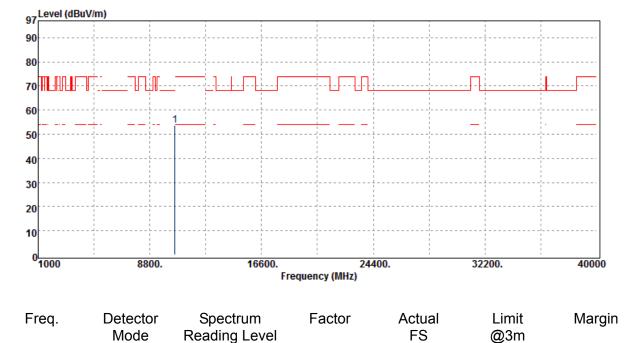
MHz

10540.00

PK/QP/AV

Peak

Operation Band	:802.11n40B2	Test Date	:2018-09-20
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



dB

20.02

dBµV/m

53.68

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dBµV

33.66

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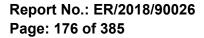
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.

dBµV/m

68.20

dB

-14.52

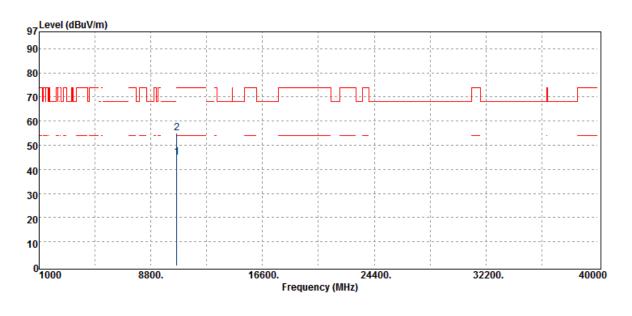




Operation Band	:802.11n40B2
Fundamental Frequency	:5310 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	Average	24.47	20.41	44.88	54.00	-9.12
10620.00	Peak	34.56	20.41	54.97	74.00	-19.03

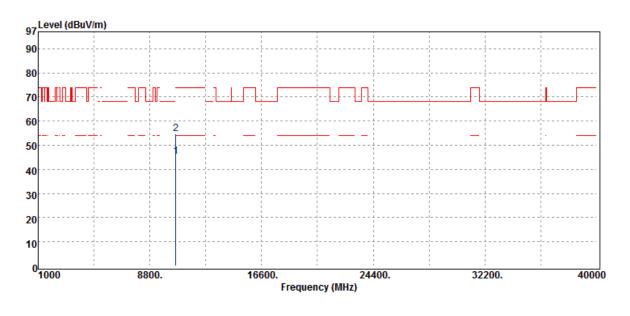
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Operation Band Fundamental Frequency Operation Mode	:802.11n40B2 :5310 MHz :Tx CH HIGH :E2 Plane	Test Date Temp./Humi. Engineer Measurement Antenna Pol
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	Average	24.86	20.41	45.27	54.00	-8.73
10620.00	Peak	34.23	20.41	54.64	74.00	-19.36

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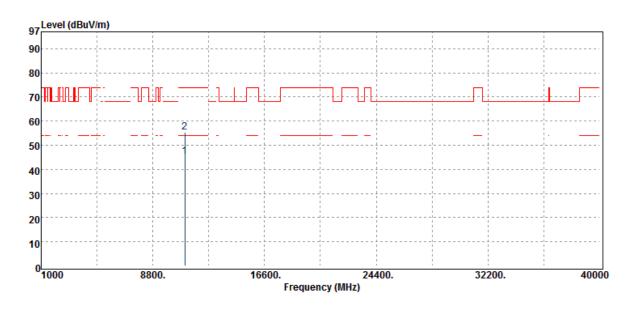
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.00	Average	23.74	21.46	45.20	54.00	-8.80
11020.00	Peak	33.97	21.46	55.43	74.00	-18.57

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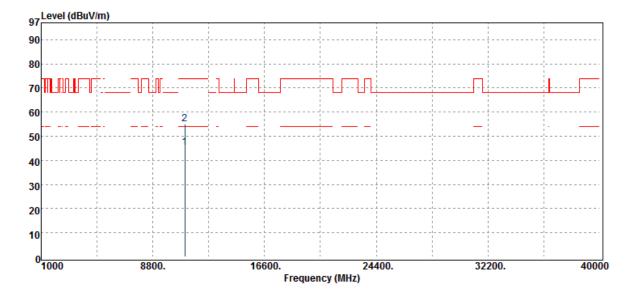
SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134號

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RH



Operation Band	:802.11n40B3	Test Date	:2018-09-20
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



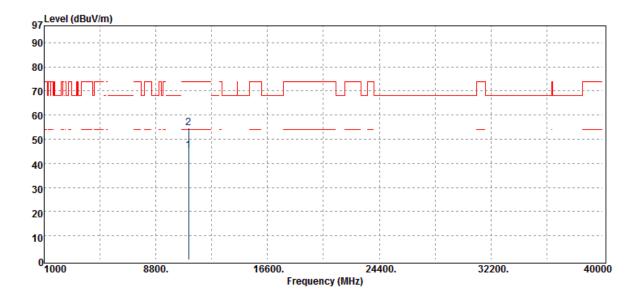
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.00	Average	23.87	21.46	45.33	54.00	-8.67
11020.00	Peak	33.60	21.46	55.06	74.00	-18.94

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Operation Band	:802.11n40B3	Test Date	:2018-09-20
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL
	.EZ FIGHE	Measurement Antenna POI.	VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11100.00	Average	23.67	21.53	45.20	54.00	-8.80
11100.00	Peak	33.16	21.53	54.69	74.00	-19.31

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:23 deg\_C / 62 RH



Operation Band Fundamental Frequency	:802.11n40B3 :5550 MHz	Test Date Temp./Humi.	:2018-09-20 :23 deg_C / 62
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

,Level (dBuV/m) 97 90 80 70 60 50 40 30 20 10 0<mark>1000</mark> 8800. 16600. 40000 24400. 32200. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11100.00	Average	24.59	21.53	46.12	54.00	-7.88
11100.00	Peak	34.15	21.53	55.68	74.00	-18.32

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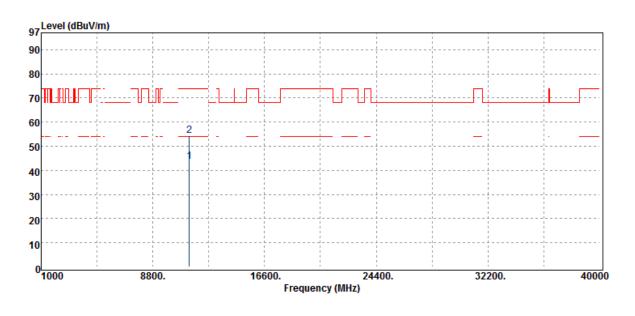
Report No.: ER/2018/90026 Page: 182 of 385



Operation Band Fundamental Frequency Operation Mode EUT Pol.	:802.11n40B3 :5670 MHz :Tx CH HIGH :E2 Plane	Test Date Temp./Hum Engineer Measureme

ηi. ent Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	Average	22.22	21.54	43.76	54.00	-10.24
11340.00	Peak	32.93	21.54	54.47	74.00	-19.53

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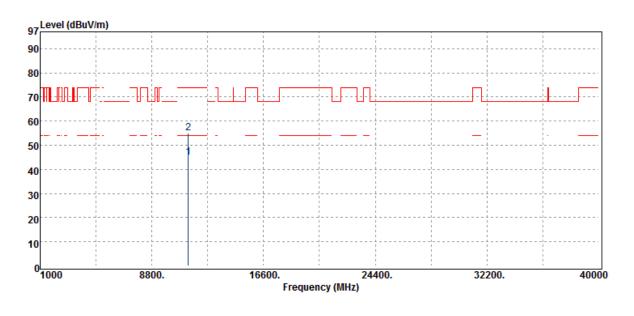
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:802.11n40B3
:5670 MHz
:Tx CH HIGH
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11340.00	Average	23.38	21.54	44.92	54.00	-9.08	•
11340.00	Peak	33.45	21.54	54.99	74.00	-19.01	

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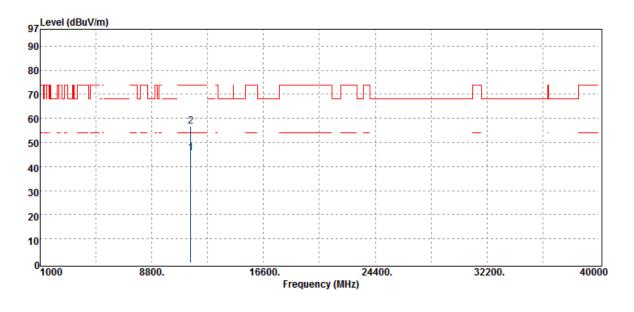
#### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11n40B4 :5755 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	Average	23.98	21.66	45.64	54.00	-8.36
11510.00	Peak	34.92	21.66	56.58	74.00	-17.42

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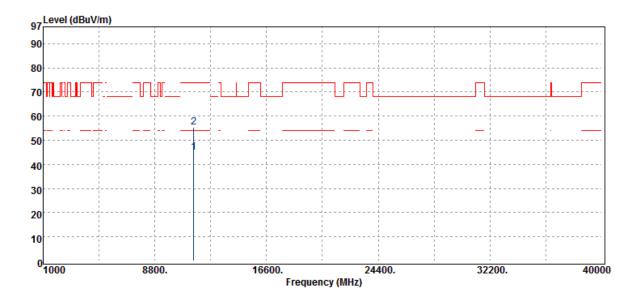
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SGS Taiwan Ltd. No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134號

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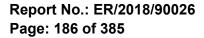


Operation Band	:802.11n40B4	Test Date	:2018-09-20
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11510.00	Average	23.47	21.66	45.13	54.00	-8.87	
11510.00	Peak	33.65	21.66	55.31	74.00	-18.69	

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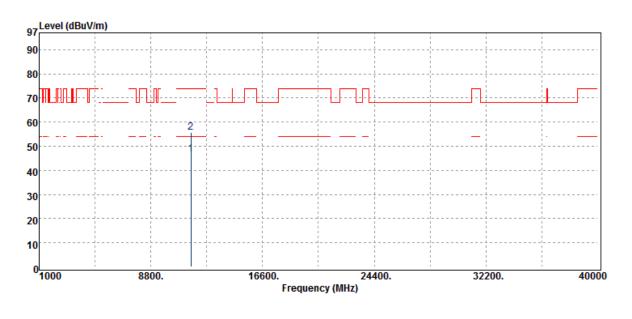




:802.11n40B4
:5795 MHz
:Tx CH HIGH
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
11590.00	Average	24.87	21.66	46.53	54.00	-7.47	
11590.00	Peak	34.16	21.66	55.82	74.00	-18.18	

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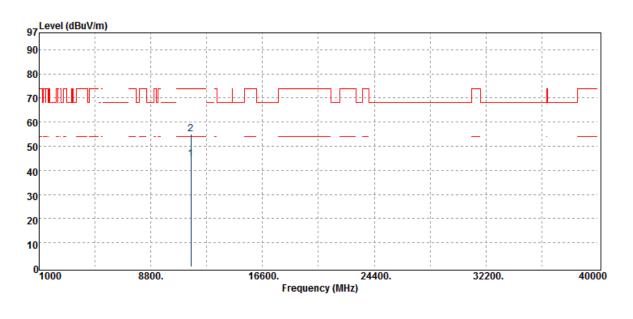
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Operation Band	:802.11n40B4
Fundamental Frequency	:5795 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	Average	23.12	21.66	44.78	54.00	-9.22
11590.00	Peak	33.51	21.66	55.17	74.00	-18.83

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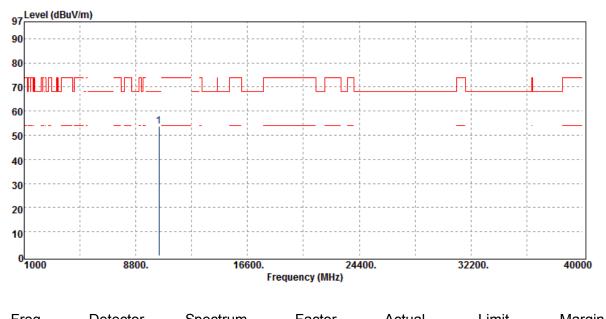
#### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B1 :5210 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

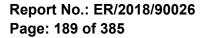
:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Fleq.	Mode	Reading Level	Factor	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	Peak	33.63	19.99	53.62	68.20	-14.58

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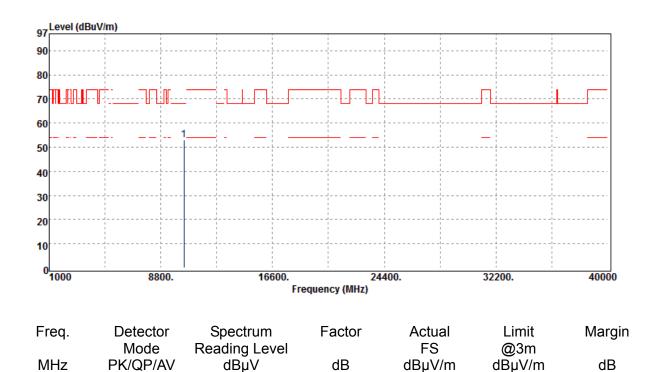




10420.00

Peak

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



19.99

53.13

68.20

-15.07

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s)	are retained for 00 days only

33.14



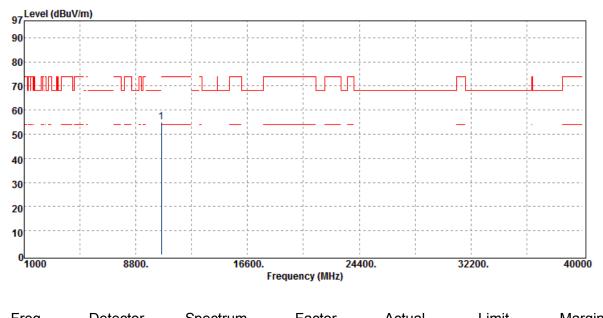
# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B2 :5290 MHz :Tx CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

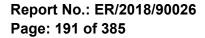
:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Delector	Spectrum	Factor	Actual	LIMIL	wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
10580.00	Peak	34.77	20.23	55.00	68.20	-13.20	

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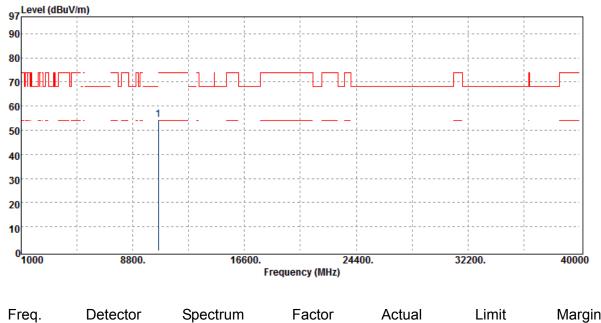




Operation Band	:802.11ac80B2
Fundamental Frequency	:5290 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



ricq.	Delector	opectium	i actor	Actual		margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10580.00	Peak	34.03	20.23	54.26	68.20	-13.94

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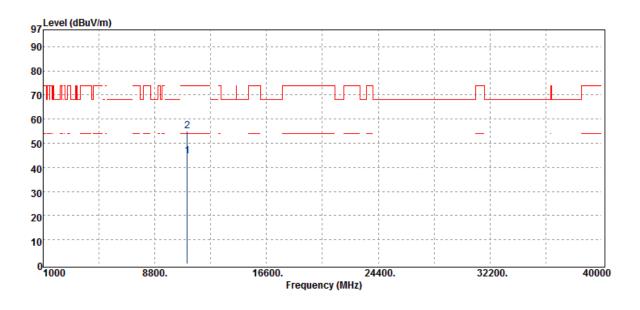
### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11060.00	Average	23.21	21.53	44.74	54.00	-9.26
11060.00	Peak	33.45	21.53	54.98	74.00	-19.02

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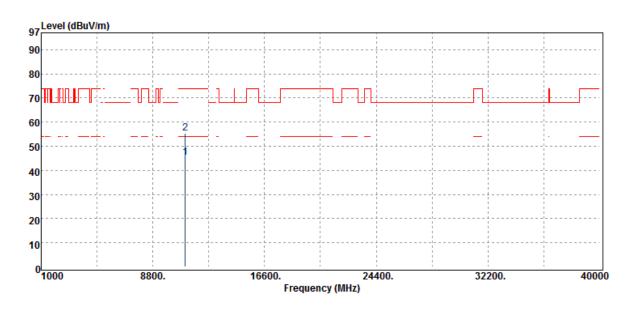
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Operation Band	:802.11ac80B3	Ti
Fundamental Frequency	:5530 MHz	Ti
Operation Mode	:Tx CH LOW	E
EUT Pol.	:E2 Plane	

est Date emp./Humi. ingineer leasurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11060.00	Average	23.77	21.53	45.30	54.00	-8.70
11060.00	Peak	33.80	21.53	55.33	74.00	-18.67

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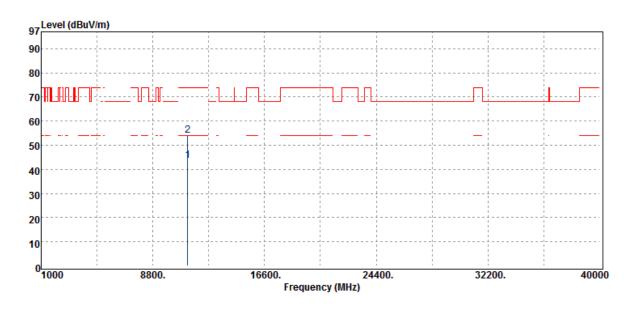
Report No.: ER/2018/90026 Page: 194 of 385



Operation Band	:802.11ac80B3
Fundamental Frequency	:5610 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

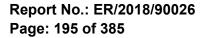
Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.00	Average	22.17	21.56	43.73	54.00	-10.27
11220.00	Peak	32.61	21.56	54.17	74.00	-19.83

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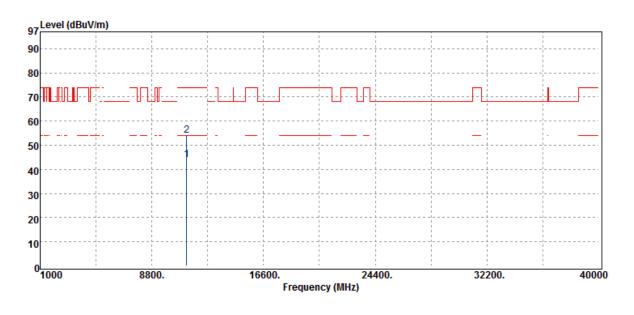




Operation Band	:802.11ac80B3
Fundamental Frequency	:5610 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.00	Average	22.27	21.56	43.83	54.00	-10.17
11220.00	Peak	32.63	21.56	54.19	74.00	-19.81

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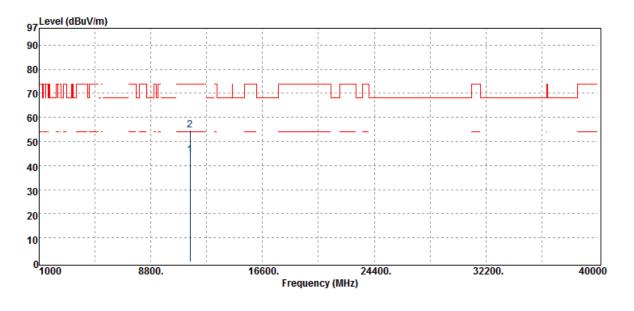
#### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B4 :5775 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11550.00	Average	22.57	21.66	44.23	54.00	-9.77	-
11550.00	Peak	32.99	21.66	54.65	74.00	-19.35	

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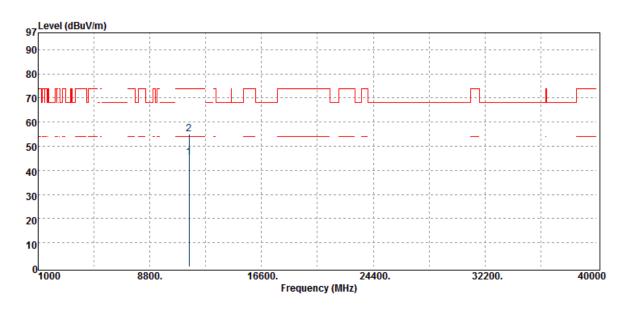
Report No.: ER/2018/90026 Page: 197 of 385



:802.11ac80B4
:5775 MHz
:Tx CH LOW
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-20 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11550.00	Average	23.67	21.66	45.33	54.00	-8.67	-
11550.00	Peak	33.43	21.66	55.09	74.00	-18.91	

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# Internal Antenna (Type: Printed antenna, Model no: N/A)

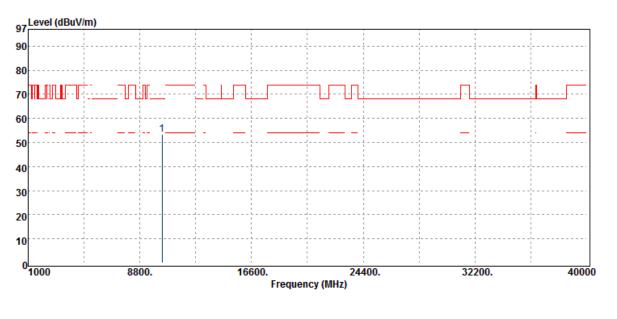
#### Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB1 :5180 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



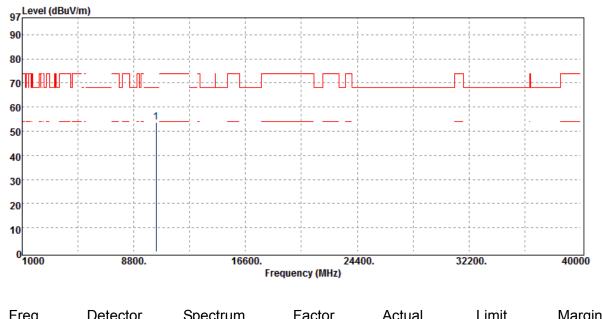
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	33.72	19.71	53.43	68.20	-14.77

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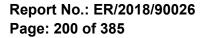
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Operation Band	:802.11aB1	Test Date	:2018-09-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

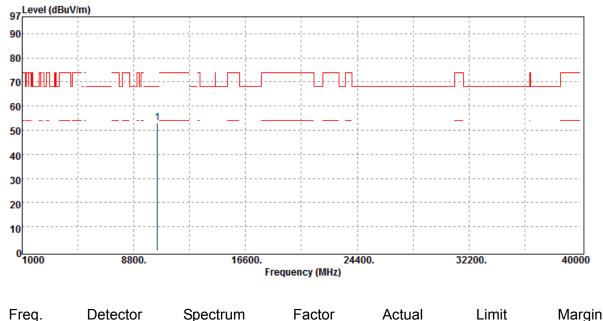


i icq.	Delector	opectium	1 actor	Actual		margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10360.00	Peak	34.12	19.71	53.83	68.20	-14.37	

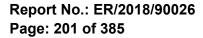




Operation Band	:802.11aB1	Test Date	:2018-09-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

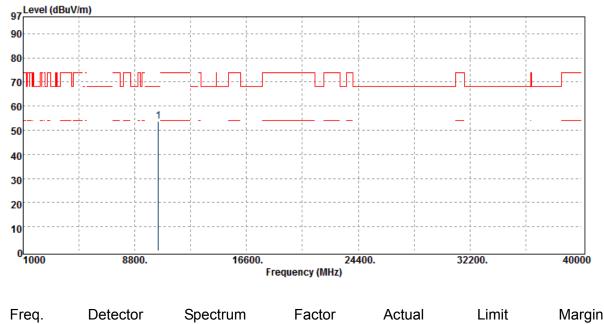


	Mode	Reading Level	i dotoi	FS	@3m	inc. gill
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	32.89	20.05	52.94	68.20	-15.26





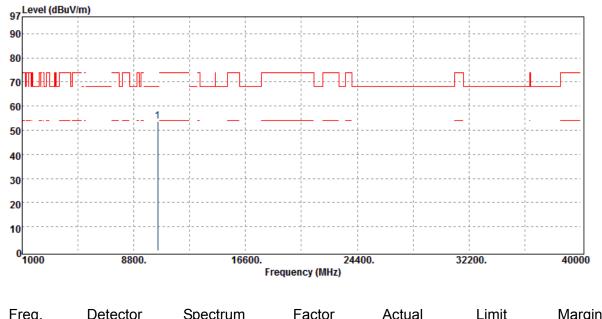
Operation Band	:802.11aB1	Test Date	:2018-09-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



1109.	Mode	Reading Level	1 40101	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	33.56	20.05	53.61	68.20	-14.59



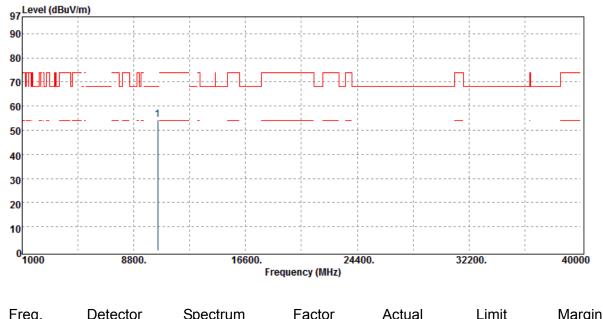
Operation Band:802.11aB1Test DateFundamental Frequency:5240 MHzTemp./Humi.Operation Mode:Tx CH HIGHEngineerEUT Pol.:E2 PlaneMeasurement Antenna Pol.
--



ricq.	Delector	opeoutium	i actor	Actual	LIIIII	margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	33.49	20.07	53.56	68.20	-14.64



Operation Band	:802.11aB1	Test Date	:2018-09-28
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



1109.	Mode	Reading Level	1 40101	FS	@3m	Margin	
 MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10480.00	Peak	34.21	20.07	54.28	68.20	-13.92	-



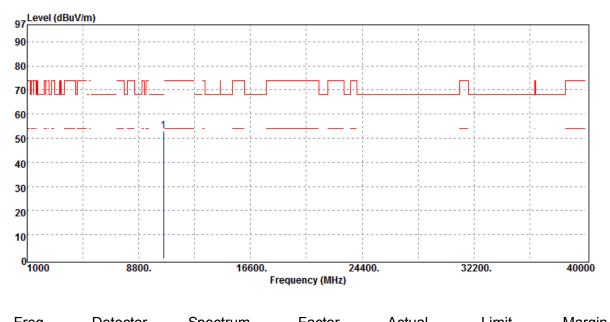
#### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB2 :5260 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL

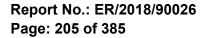


Freq.	Delector	Spectrum	Factor	Actual	LIMIL	wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
10520.00	Peak	33.02	20.00	53.02	68.20	-15.18	•

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

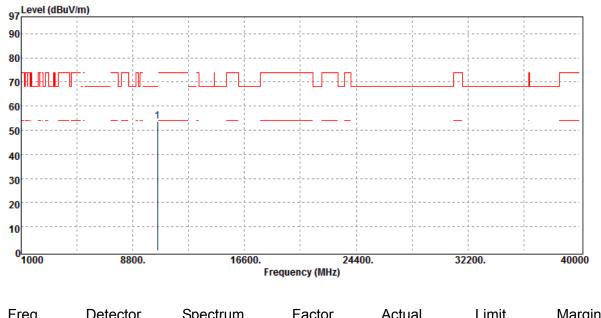
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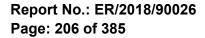




Operation Band	:802.11aB2	Test Date	:2018-09-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



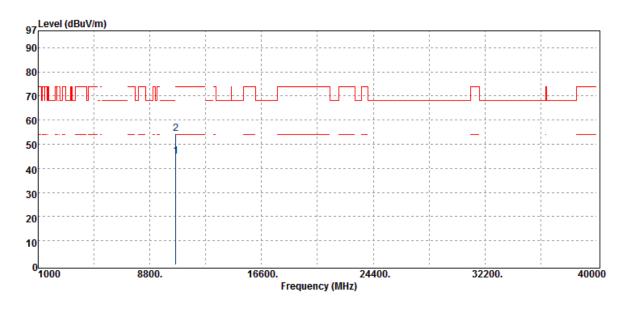
ricq.	Delector	opectium	1 actor	Actual	LIIIII	margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	33.54	20.00	53.54	68.20	-14.66





Fundamental Frequency:5300 MHzTeOperation Mode:Tx CH MIDE	ſest Date ſemp./Humi. Engineer ⁄Ieasurement Antenna Pol.
---	---

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



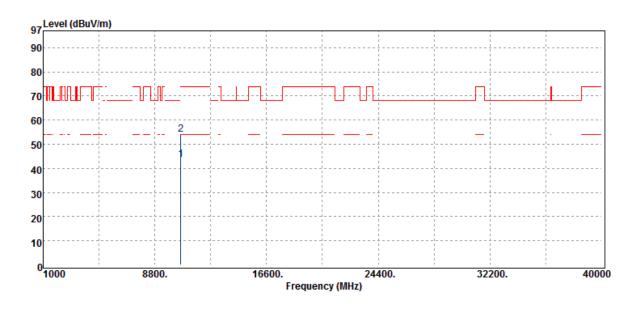
Detector	Spectrum	Factor	Actual	Limit	Margin	
Mode	Reading Level		FS	@3m		
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
Average	24.55	20.38	44.93	54.00	-9.07	
Peak	34.02	20.38	54.40	74.00	-19.60	
	Mode PK/QP/AV Average	ModeReading LevelPK/QP/AVdBµVAverage24.55	ModeReading LevelPK/QP/AVdBµVdBAverage24.5520.38	ModeReading LevelFSPK/QP/AVdBµVdBdBµV/mAverage24.5520.3844.93	Mode Reading Level FS @3m   PK/QP/AV dBμV dB dBμV/m dBμV/m   Average 24.55 20.38 44.93 54.00	Mode Reading Level FS @3m   PK/QP/AV dBμV dB dBμV/m dBμV/m dB   Average 24.55 20.38 44.93 54.00 -9.07

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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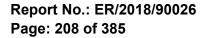


Operation Band	:802.11aB2	Test Date	:2018-09-28
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10600.00	Average	23.22	20.38	43.60	54.00	-10.40	
10600.00	Peak	33.77	20.38	54.15	74.00	-19.85	

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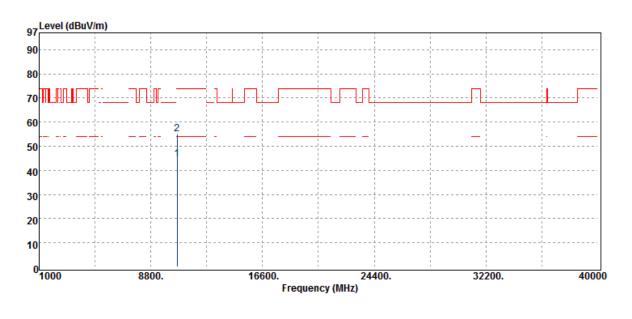




:802.11aB2
:5320 MHz
:Tx CH HIGH
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL

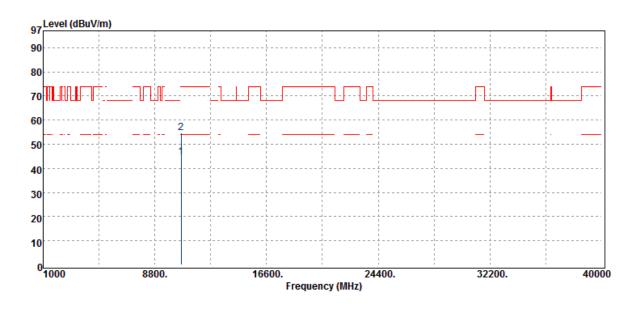


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10640.00	Average	24.12	20.44	44.56	54.00	-9.44	-
10640.00	Peak	34.65	20.44	55.09	74.00	-18.91	

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Operation Band	:802.11aB2	Test Date	:2018-09-28
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	24.13	20.44	44.57	54.00	-9.43
10640.00	Peak	34.34	20.44	54.78	74.00	-19.22



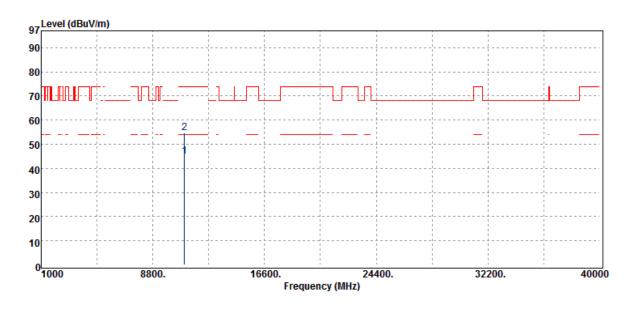
#### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB3 :5500 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	23.66	21.37	45.03	54.00	-8.97
11000.00	Peak	33.44	21.37	54.81	74.00	-19.19

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:2018-09-28

:HORIZONTAL

:Wei

:23 deg\_C / 62 RH



Operation Band	:802.11aB3	Test Date
Fundamental Frequency	:5500 MHz	Temp./Humi.
Operation Mode	:Tx CH LOW	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

,Level (dBuV/m) 97 90 80 70 60 50 40 30 20 10 0<mark>1000</mark> 8800. 16600. 40000 24400. 32200. Frequency (MHz)

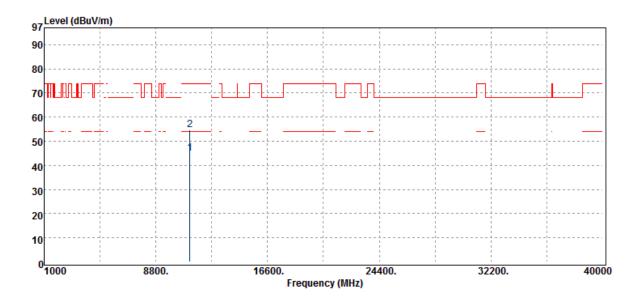
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	23.17	21.37	44.54	54.00	-9.46
11000.00	Peak	33.61	21.37	54.98	74.00	-19.02

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Operation Band	:802.11aB3	Test Date	:2018-09-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



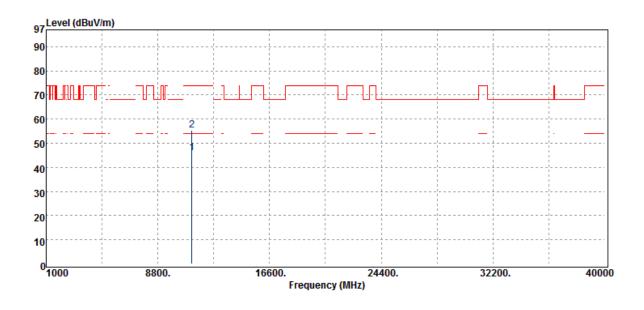
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	23.32	21.51	44.83	54.00	-9.17
11160.00	Peak	33.27	21.51	54.78	74.00	-19.22

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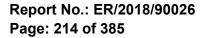
Operation Band	:802.11aB3	Test Date	:2018-09-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	24.60	21.51	46.11	54.00	-7.89
11160.00	Peak	33.87	21.51	55.38	74.00	-18.62

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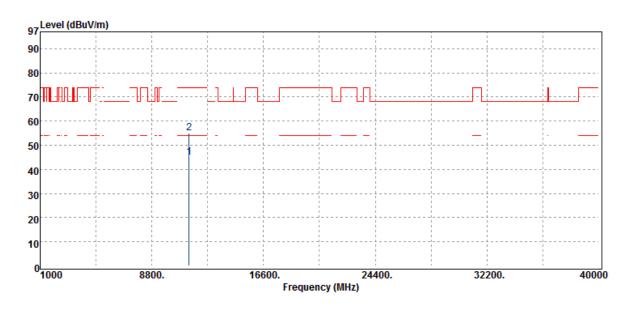




Operation Band	:802.11aB3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

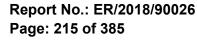
:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11400.00	Average	23.31	21.62	44.93	54.00	-9.07	
11400.00	Peak	33.44	21.62	55.06	74.00	-18.94	

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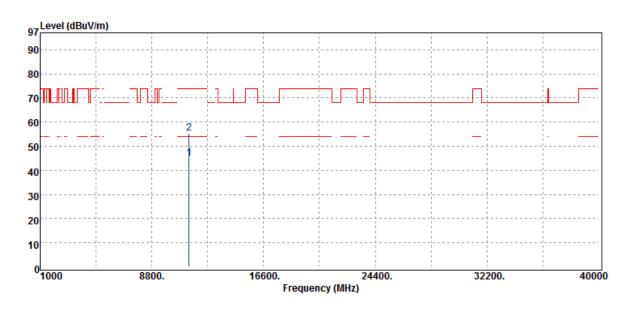




Operation Band	:802.11aB3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	23.37	21.62	44.99	54.00	-9.01
11400.00	Peak	33.88	21.62	55.50	74.00	-18.50

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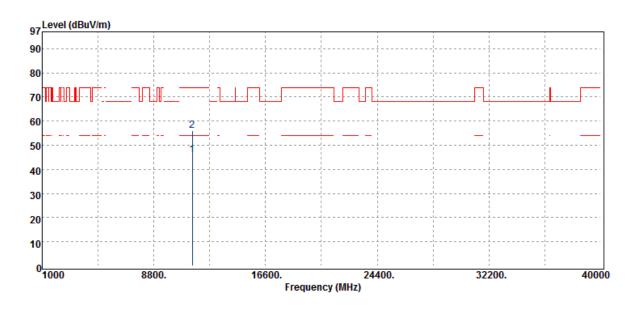
#### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11aB4 :5745 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-10-01 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	24.38	21.61	45.99	54.00	-8.01
11490.00	Peak	34.32	21.61	55.93	74.00	-18.07

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

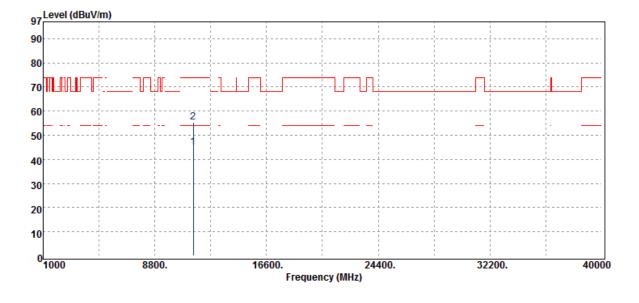
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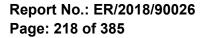


Operation Band	:802.11aB4	Test Date	:2018-09-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



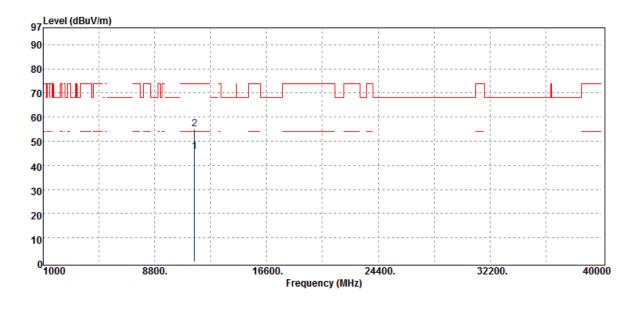
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11490.00	Average	23.22	21.61	44.83	54.00	-9.17	•
11490.00	Peak	33.65	21.61	55.26	74.00	-18.74	

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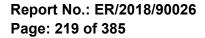




Operation Band	:802.11aB4	Test Date	:2018-09-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



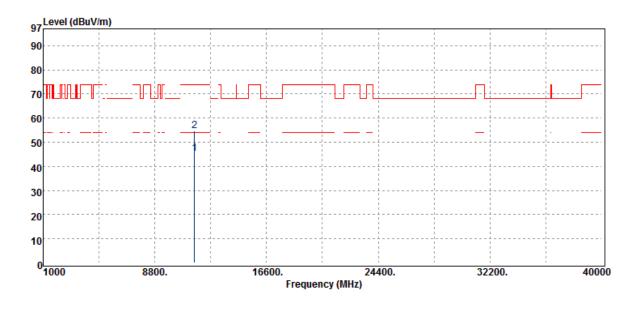
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.86	21.66	45.52	54.00	-8.48
11570.00	Peak	33.50	21.66	55.16	74.00	-18.84



RH

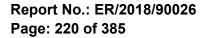


Operation Band	:802.11aB4	Test Date	:2018-09-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.72	21.66	45.38	54.00	-8.62
11570.00	Peak	33.12	21.66	54.78	74.00	-19.22

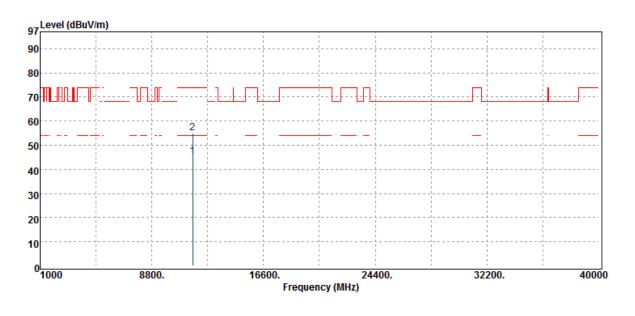
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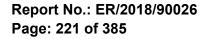
Operation Band	:802.11aB4	Test Date
Fundamental Frequency	:5825 MHz	Temp./Humi.
Operation Mode	:Tx CH HIGH	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Detector	Spectrum	Factor	Actual	Limit	Margin	
Mode	Reading Level		FS	@3m		
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
Average	23.59	21.60	45.19	54.00	-8.81	
Peak	33.45	21.60	55.05	74.00	-18.95	
	Mode PK/QP/AV Average	ModeReading LevelPK/QP/AVdBµVAverage23.59	ModeReading LevelPK/QP/AVdBµVdBAverage23.5921.60	ModeReading LevelFSPK/QP/AVdBµVdBdBµV/mAverage23.5921.6045.19	Mode Reading Level FS @3m   PK/QP/AV dBμV dB dBμV/m dBμV/m   Average 23.59 21.60 45.19 54.00	Mode Reading Level FS @3m   PK/QP/AV dBμV dB dBμV/m dBμV/m dB   Average 23.59 21.60 45.19 54.00 -8.81

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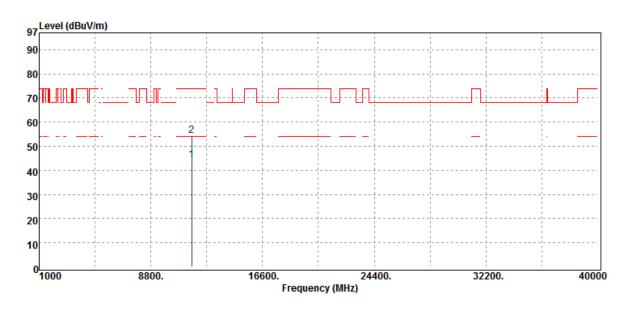




Operation Band	:802.11aB4
Fundamental Frequency	:5825 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	22.79	21.60	44.39	54.00	-9.61
11650.00	Peak	32.71	21.60	54.31	74.00	-19.69

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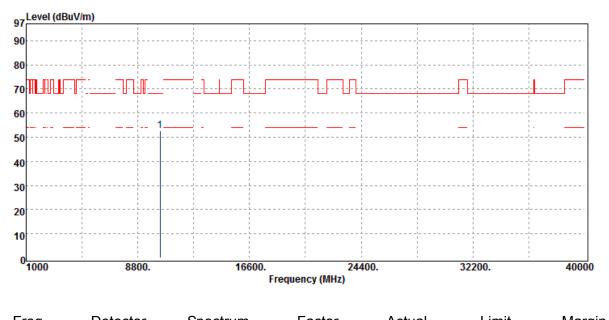
## Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B1 :5180 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10360.00	Peak	33.03	19.71	52.74	68.20	-15.46	

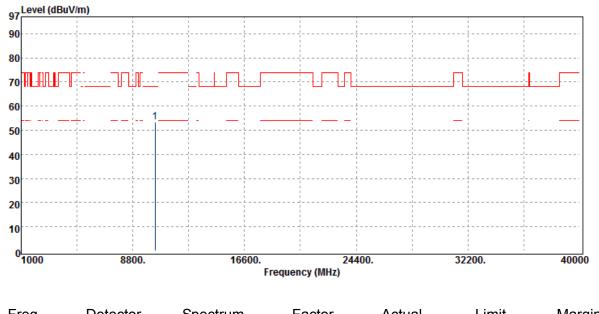
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Operation Band	:802.11n20B1	Test Date	:2018-09-28
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



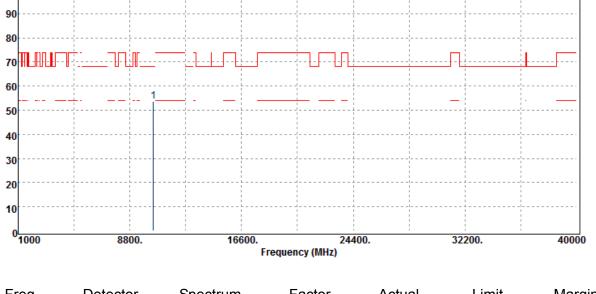
⊢req.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Peak	33.67	19.71	53.38	68.20	-14.82

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Report No.: ER/2018/90026 Page: 224 of 385



Operation Band	:802.11r	20B1		Test D	Date		:2018-09-28
Fundamental Frequency	:5220 M	Hz		Temp	./Humi.		:23 deg_C / 62 RH
Operation Mode	:Tx CH I	MID		Engin	eer		:Wei
EUT Pol.	:E2 Plan	e		Meas	urement A	ntenna Pol.	:VERTICAL
97							
57					1		



Freq.	Detector	Spectrum	Factor	Actual	Limit	wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10440.00	Peak	33.62	20.05	53.67	68.20	-14.53	

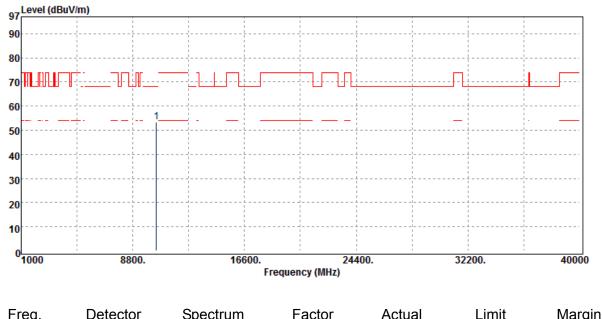
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Operation Band	:802.11n20B1	Test Date	:2018-09-28
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



1104.	Mode	Reading Level	1 40101	FS	@3m	margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	33.48	20.05	53.53	68.20	-14.67

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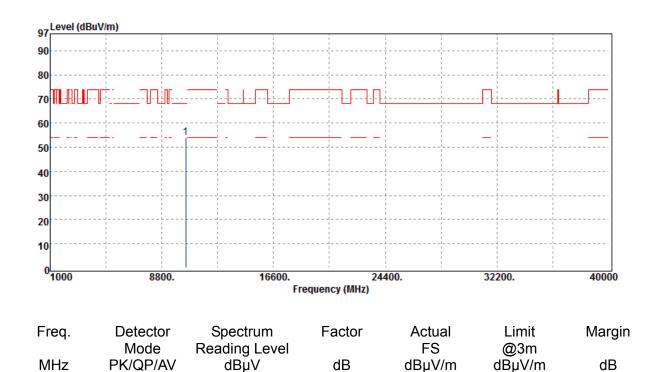


10480.00

Peak

Operation Band Fundamental Frequency Operation Mode EUT Pol.	:802.11n20B1 :5240 MHz :Tx CH HIGH :E2 Plane	Test Date Temp./Humi. Engineer Measurement Antenna Pol.
		measurement Antenna Foi.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



20.07

53.94

68.20

-14.26

Unless otherwise stated the results shown in this test report ref	er only to the sample(s) tested and such	sample(s) are retained for 90 days only.
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33.87

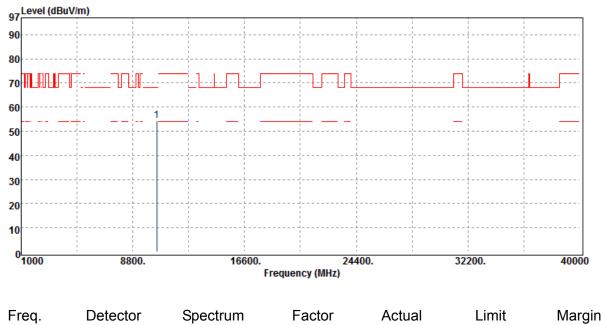
Report No.: ER/2018/90026 Page: 227 of 385



Operation Band	:802.11n20B1	Te
Fundamental Frequency	:5240 MHz	Tei
Operation Mode	:Tx CH HIGH	En
EUT Pol.	:E2 Plane	Me

st Date mp./Humi. igineer easurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



rieq.	Delector	opectium	1 actor	Actual	LIIIIL	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Peak	34.27	20.07	54.34	68.20	-13.86

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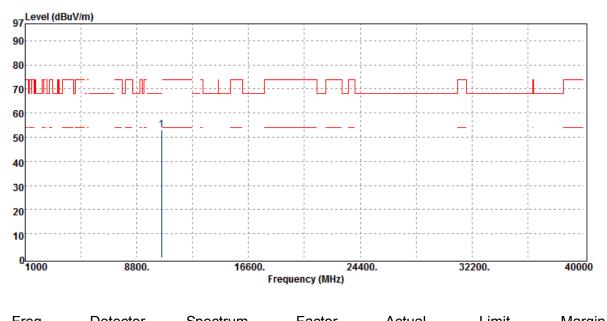
# Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B2 :5260 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Fleq.	Delector	Spectrum	Factor	Actual		wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
10520.00	Peak	33.17	20.00	53.17	68.20	-15.03	

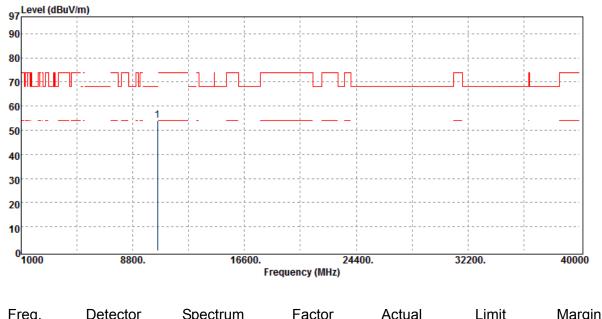
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Operation Band	:802.11n20B2	Test Date	:2018-09-28
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



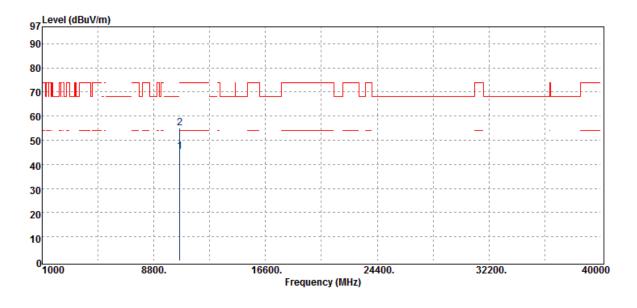
1109.	Detector	opeourum	1 40101	7101001		margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	Peak	33.97	20.00	53.97	68.20	-14.23

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Operation Band	:802.11n20B2	Test Date	:2018-10-01
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	Average	24.95	20.38	45.33	54.00	-8.67
10600.00	Peak	34.68	20.38	55.06	74.00	-18.94

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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:2018-09-28

:HORIZONTAL

:Wei

:23 deg\_C / 62 RH



Operation Band	:802.11n20B2	Test Date
Fundamental Frequency	:5300 MHz	Temp./Humi.
Operation Mode	:Tx CH MID	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.
		Measurement Antenna Pol.

,Level (dBuV/m) 97 90 80 70 60 50 40 30 20 10 0<mark>1000</mark> 8800. 16600. 40000 24400. 32200. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	Average	24.68	20.38	45.06	54.00	-8.94
10600.00	Peak	34.97	20.38	55.35	74.00	-18.65

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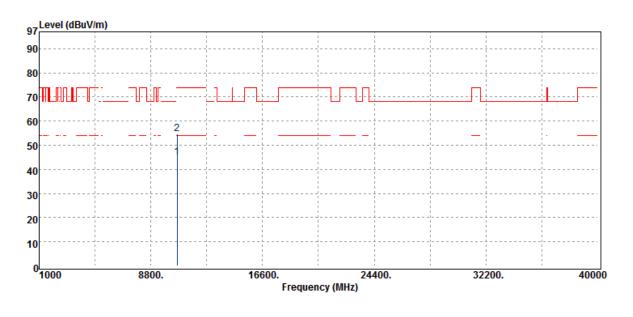
Report No.: ER/2018/90026 Page: 232 of 385



802.11n20B2
5320 MHz
Tx CH HIGH
E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10640.00	Average	24.42	20.44	44.86	54.00	-9.14	
10640.00	Peak	34.28	20.44	54.72	74.00	-19.28	

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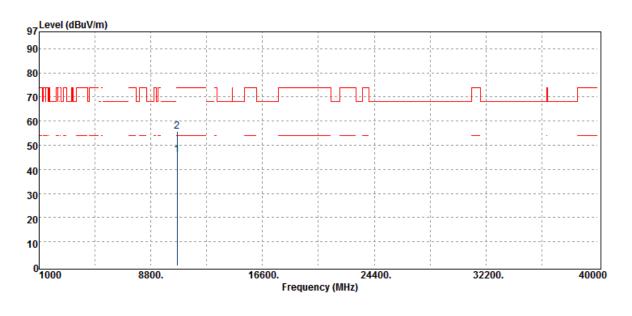
Report No.: ER/2018/90026 Page: 233 of 385



Operation Band	:802.11n20B2
Fundamental Frequency	:5320 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	Average	25.68	20.44	46.12	54.00	-7.88
10640.00	Peak	35.38	20.44	55.82	74.00	-18.18

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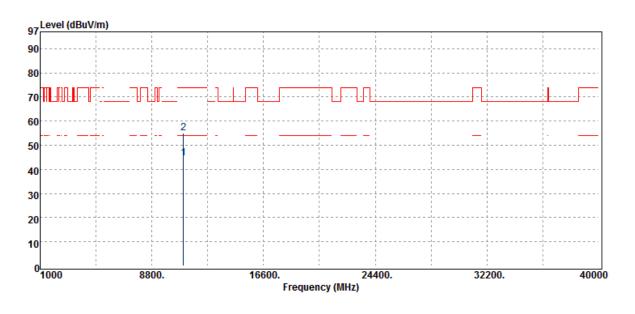
#### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	23.12	21.37	44.49	54.00	-9.51
11000.00	Peak	33.57	21.37	54.94	74.00	-19.06

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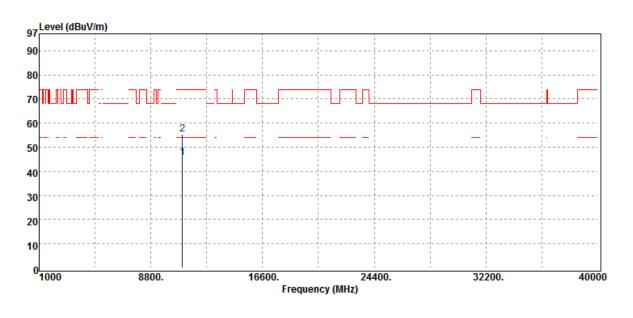
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Operation Band	:802.11n20B3	Test Date
Fundamental Frequency	:5500 MHz	Temp./Humi.
Operation Mode	:Tx CH LOW	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



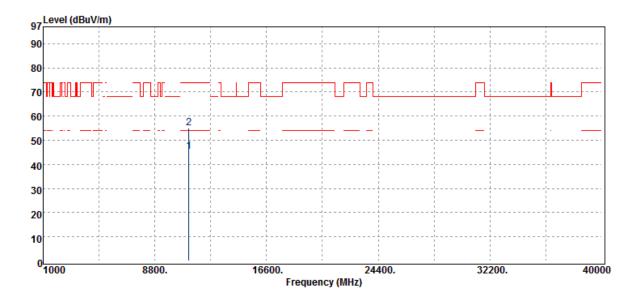
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	Average	24.43	21.37	45.80	54.00	-8.20
11000.00	Peak	34.07	21.37	55.44	74.00	-18.56

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Operation Band	:802.11n20B3	Test Date	:2018-09-28
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	23.77	21.51	45.28	54.00	-8.72
11160.00	Peak	33.41	21.51	54.92	74.00	-19.08

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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:2018-09-28

:HORIZONTAL

:Wei

:23 deg\_C / 62 RH



Operation Band	:802.11n20B3	Test Date
Fundamental Frequency	:5580 MHz	Temp./Humi.
Operation Mode	:Tx CH MID	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

,Level (dBuV/m) 97 90 80 70 60 50 40 30 20 10 1000 8800. 16600. 40000 24400. 32200. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	Average	23.95	21.51	45.46	54.00	-8.54
11160.00	Peak	33.65	21.51	55.16	74.00	-18.84

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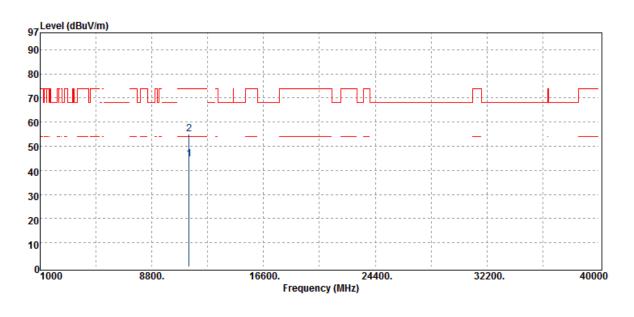
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Operation Band	:802.11n20B3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	23.14	21.62	44.76	54.00	-9.24
11400.00	Peak	33.59	21.62	55.21	74.00	-18.79

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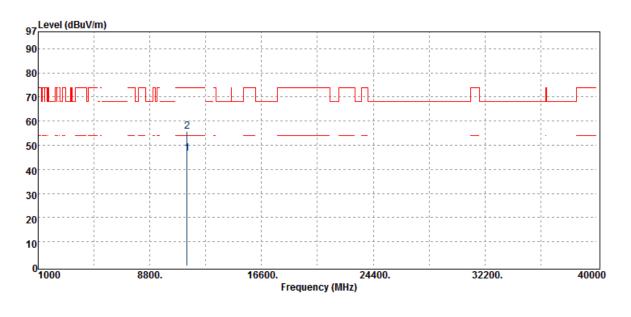
Report No.: ER/2018/90026 Page: 239 of 385



Operation Band	:802.11n20B3
Fundamental Frequency	:5700 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	Average	24.87	21.62	46.49	54.00	-7.51
11400.00	Peak	34.24	21.62	55.86	74.00	-18.14

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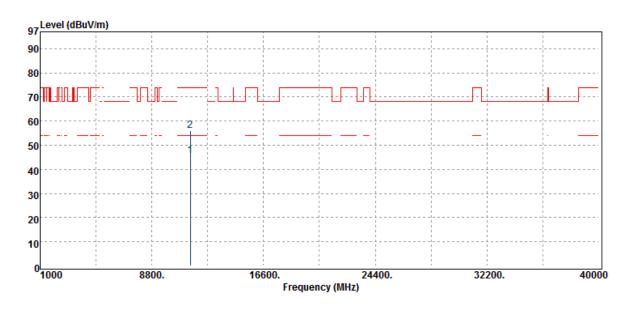
# Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5745 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	24.11	21.61	45.72	54.00	-8.28
11490.00	Peak	34.43	21.61	56.04	74.00	-17.96

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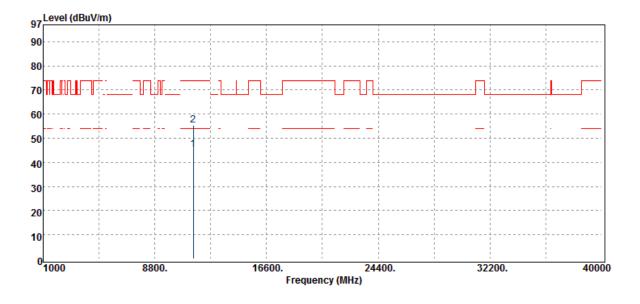
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Operation Band	:802.11n20B4	Test Date	:2018-09-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	Average	23.58	21.61	45.19	54.00	-8.81
11490.00	Peak	33.73	21.61	55.34	74.00	-18.66

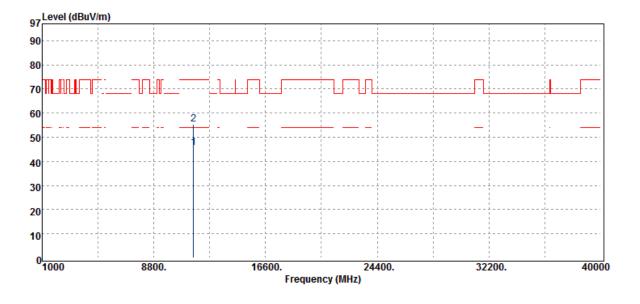
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Operation Band Fundamental Frequency Operation Mode	:802.11n20B4 :5785 MHz :Tx CH MID	Test Date Temp./Humi. Engineer	:2018-09-28 :23 deg_C / 62 RH :Wei
EUT Pol.	:E2 Plane	0	:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.90	21.66	45.56	54.00	-8.44
11570.00	Peak	33.58	21.66	55.24	74.00	-18.76

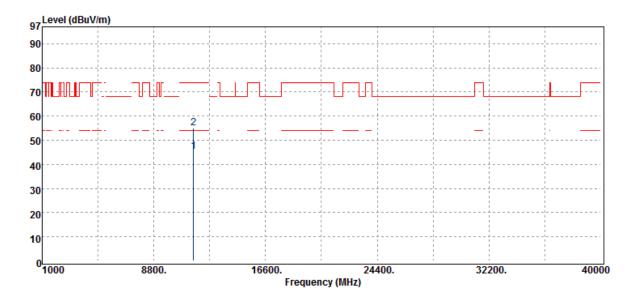
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Operation Band	:802.11n20B4	Test Date	:2018-09-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
		Measurement Antenna Fol.	INTEL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	Average	23.72	21.66	45.38	54.00	-8.62
11570.00	Peak	33.48	21.66	55.14	74.00	-18.86

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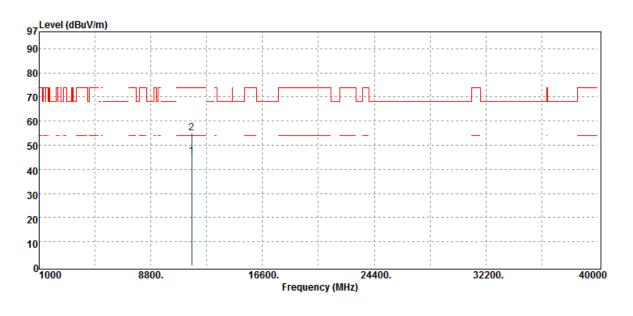
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Operation Band	:802.11n20B4
Fundamental Frequency	:5825 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-10-01 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	23.72	21.60	45.32	54.00	-8.68
11650.00	Peak	33.43	21.60	55.03	74.00	-18.97

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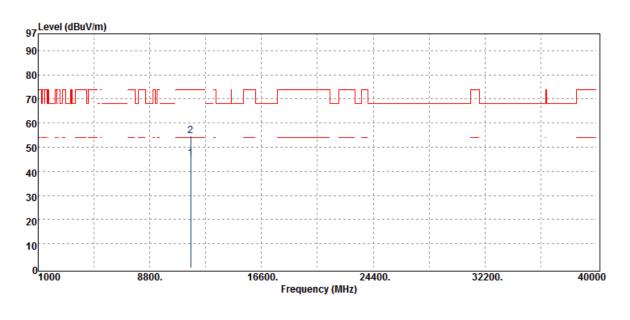
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Operation Band	:802.11n20B4
Fundamental Frequency	:5825 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	23.71	21.60	45.31	54.00	-8.69
11650.00	Peak	33.17	21.60	54.77	74.00	-19.23

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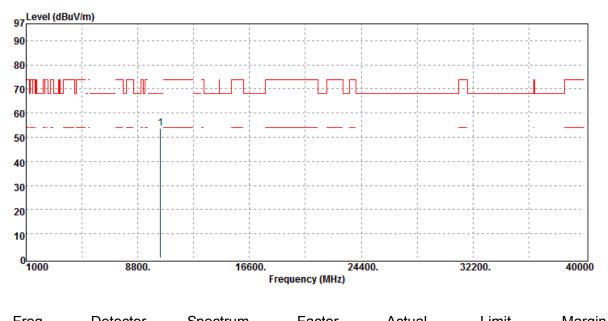
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B1 :5190 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Delector	Spectrum	Factor	Actual	LIMIL	wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	_
10380.00	Peak	33.77	19.78	53.55	68.20	-14.65	-

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Operation Band	:802.11n40B1	Test Date	:2018-09-28
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL
97 Level (dBuV/m)			



rieq.	Mode	Reading Level	T actor	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	Peak	33.84	19.78	53.62	68.20	-14.58

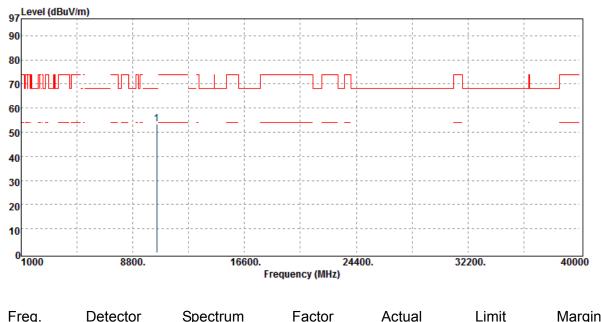
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Operation Band	:802.11n40B1	Test Date
Fundamental Frequency	:5230 MHz	Temp./Humi.
Operation Mode	:Tx CH HIGH	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



rieq.	Delector	opectium	1 actor	Actual	LIIIIL	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	Peak	33.28	20.07	53.35	68.20	-14.85

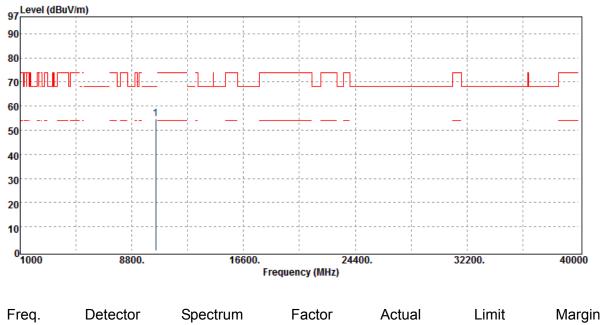
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Fundamental Frequency:5230 MHzTemp./Humi.Operation Mode:Tx CH HIGHEngineerEUT Pol.:E2 PlaneMeasurement Antenna P

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



1109.	Mode	Reading Level	1 40101	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	Peak	34.52	20.07	54.59	68.20	-13.61

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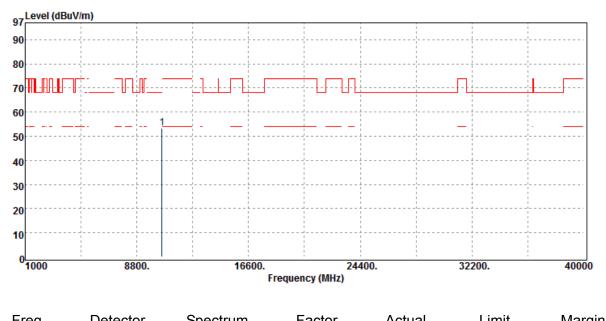
## Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B2 :5270 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Fieq.	Mode	Reading Level	Facior	FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	Peak	33.19	20.02	53.21	68.20	-14.99

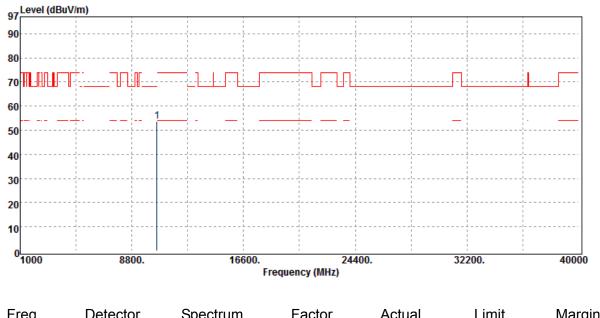
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Operation Band	:802.11n40B2	Test Date	:2018-09-28
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



ricq.	Delector	opectium	1 40101	Actual	LIIIII	margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	Peak	33.69	20.02	53.71	68.20	-14.49

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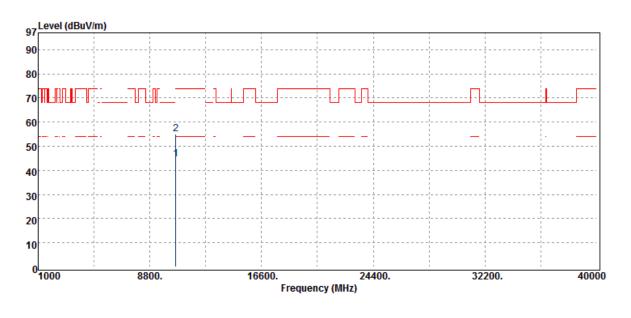
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Operation Band	:802.11n40B2
Fundamental Frequency	:5310 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane
Operation Mode	:Tx CH HIGH

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	Average	24.19	20.41	44.60	54.00	-9.40
10620.00	Peak	34.47	20.41	54.88	74.00	-19.12

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

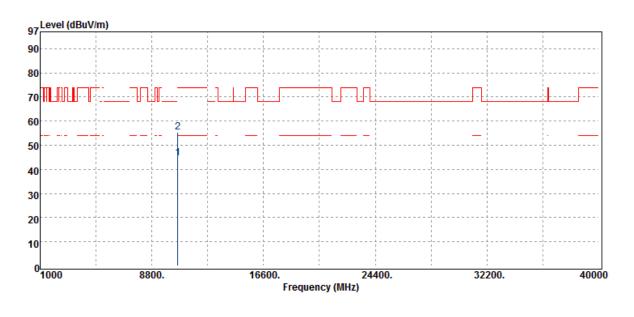
Report No.: ER/2018/90026 Page: 253 of 385



Operation Band	:802.11n40B2
Fundamental Frequency	:5310 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-10-01 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	Average	24.33	20.41	44.74	54.00	-9.26
10620.00	Peak	34.97	20.41	55.38	74.00	-18.62

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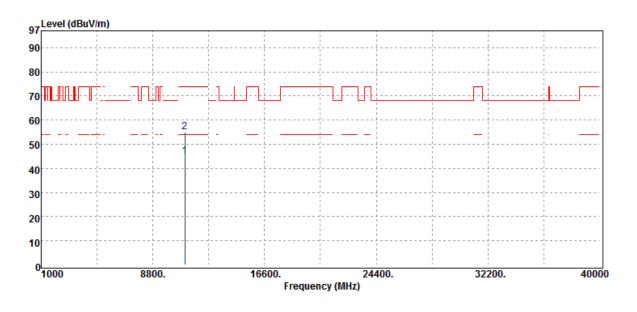
#### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-10-01 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.00	Average	23.61	21.46	45.07	54.00	-8.93
11020.00	Peak	33.74	21.46	55.20	74.00	-18.80

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:2018-10-01

:Wei

:23 deg\_C / 62 RH

:HORIZONTAL



Operation Band	:802.11n40B3	Test Date
Fundamental Frequency	:5510 MHz	Temp./Humi.
Operation Mode	:Tx CH LOW	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.
Operation Mode	:Tx CH LOW	Engineer

,Level (dBuV/m) 97 90 80 70 60 2 50 40 30 20 10 0<mark>1000</mark> 8800. 16600. 40000 24400. 32200. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.00	Average	23.55	21.46	45.01	54.00	-8.99
11020.00	Peak	33.08	21.46	54.54	74.00	-19.46

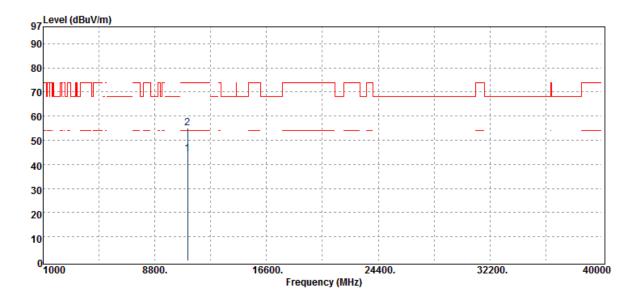
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Operation Band	:802.11n40B3	Engineer	:2018-09-28
Fundamental Frequency	:5550 MHz		:23 deg_C / 62 RH
Operation Mode	:Tx CH MID		:Wei
EUT Pol.	:E2 Plane		:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11100.00	Average	22.88	21.53	44.41	54.00	-9.59
11100.00	Peak	33.67	21.53	55.20	74.00	-18.80

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:2018-09-28

:HORIZONTAL

:Wei

:23 deg\_C / 62 RH



Operation Band	:802.11n40B3	Test Date
Fundamental Frequency	:5550 MHz	Temp./Humi.
Operation Mode	:Tx CH MID	Engineer
EUT Pol.	:E2 Plane	Measurement Antenna Pol.

,Level (dBuV/m) 97 90 80 70 60 50 40 30 20 10 8800. 16600. 40000 1000 24400. 32200. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11100.00	Average	25.47	21.53	47.00	54.00	-7.00
11100.00	Peak	35.69	21.53	57.22	74.00	-16.78

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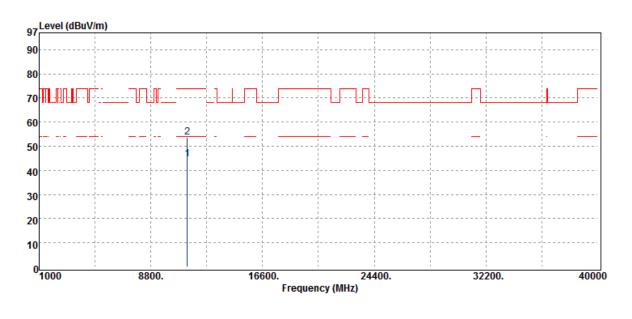
Report No.: ER/2018/90026 Page: 258 of 385



.11n40B3
0 MHz
CH HIGH
Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	Average	23.08	21.54	44.62	54.00	-9.38
11340.00	Peak	32.12	21.54	53.66	74.00	-20.34

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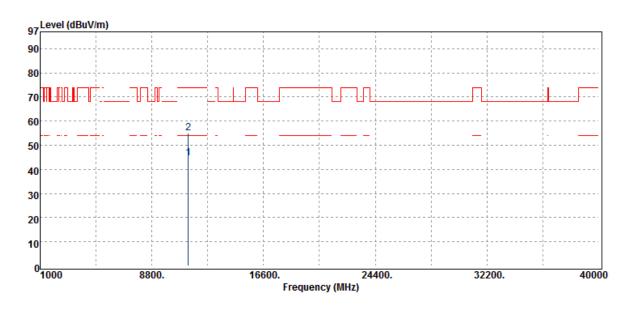
Report No.: ER/2018/90026 Page: 259 of 385



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j

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	Average	23.17	21.54	44.71	54.00	-9.29
11340.00	Peak	33.38	21.54	54.92	74.00	-19.08

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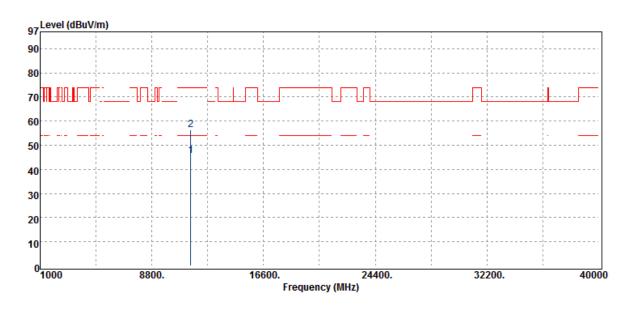
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B4 :5755 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	Average	23.96	21.66	45.62	54.00	-8.38
11510.00	Peak	34.82	21.66	56.48	74.00	-17.52

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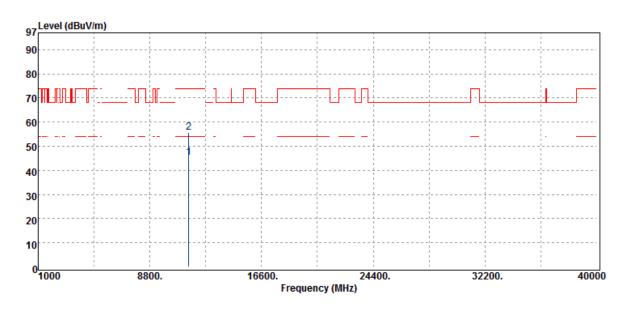
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Operation Band	:802.11n40B4	Test Date
Fundamental Frequency	:5755 MHz	Temp./Humi
Operation Mode	:Tx CH LOW	Engineer
EUT Pol.	:E2 Plane	Measuremei

nt Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	Average	23.49	21.66	45.15	54.00	-8.85
11510.00	Peak	33.97	21.66	55.63	74.00	-18.37

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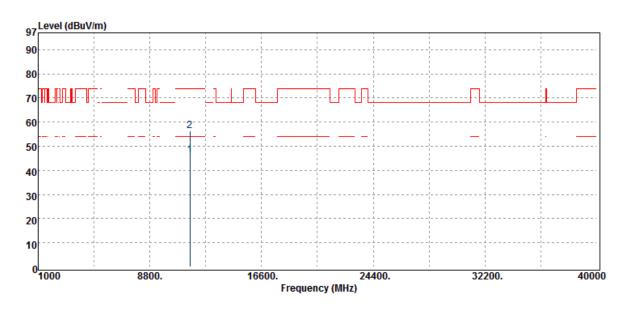
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Operation Band	:802.11n40B4
Fundamental Frequency	:5795 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	Average	24.73	21.66	46.39	54.00	-7.61
11590.00	Peak	34.87	21.66	56.53	74.00	-17.47

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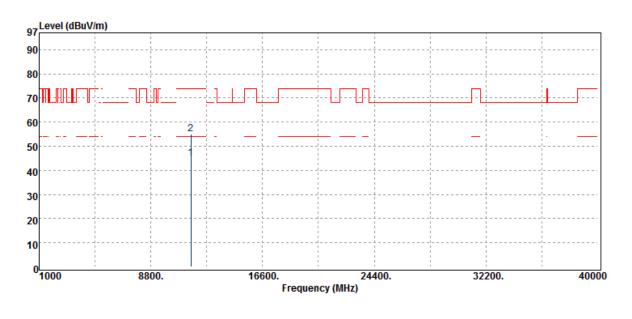
Report No.: ER/2018/90026 Page: 263 of 385



Operation Band	:802.11n40B4
Fundamental Frequency	:5795 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	Average	23.18	21.66	44.84	54.00	-9.16
11590.00	Peak	33.27	21.66	54.93	74.00	-19.07

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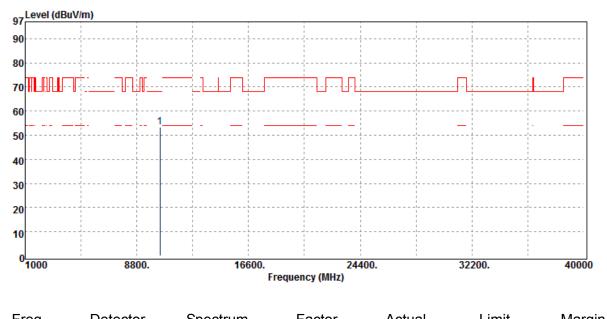
#### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B1 :5210 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Delector	Spectrum	Factor	Actual	Limit	margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10420.00	Peak	33.34	19.99	53.33	68.20	-14.87	_

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

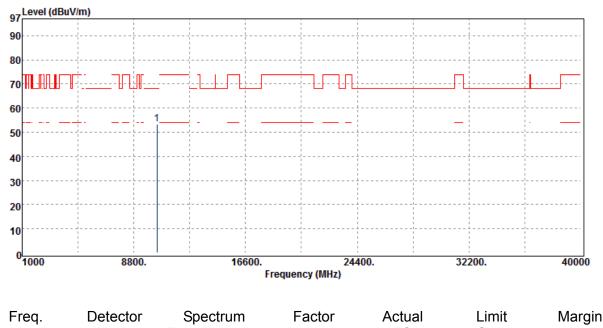
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EUT Poi. :E2 Plane Measuremen	Operation Band	:802.11ac80B1	Test Date
	Fundamental Frequency	:5210 MHz	Temp./Humi.
	Operation Mode	:Tx CH LOW	Engineer
	EUT Pol.	:E2 Plane	Measuremer

:2018-09-28 :23 deg\_C / 62 RH :Wei ent Antenna Pol. :HORIZONTAL



ricq.	Mode	Reading Level	1 40101	FS	@3m	Wargin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	Peak	33.44	19.99	53.43	68.20	-14.77

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



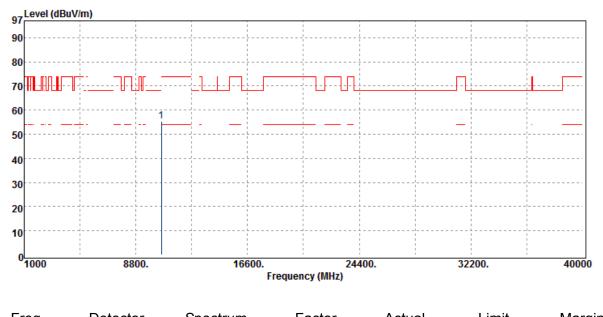
# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B2 :5290 MHz :Tx CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



⊢req.	Detector	Spectrum	Factor	Actual	Limit	iviargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
10580.00	Peak	35.09	20.23	55.32	68.20	-12.88	

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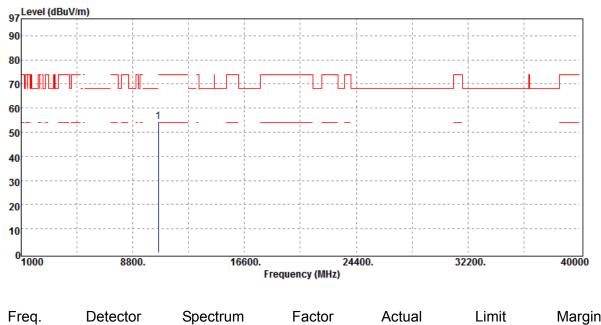
Report No.: ER/2018/90026 Page: 267 of 385



Operation Band	:802.11ac80B2
Fundamental Frequency	:5290 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



ricq.	Delector	opectium	1 actor	Actual	Luint	margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10580.00	Peak	34.17	20.23	54.40	68.20	-13.80

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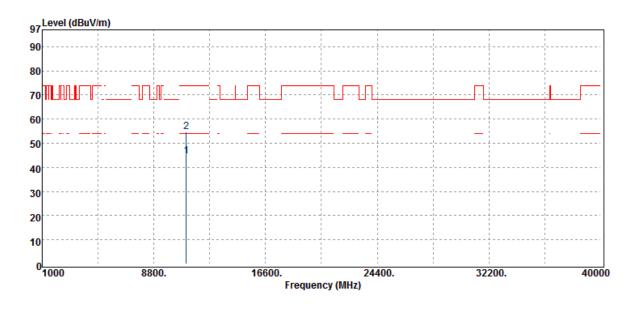
#### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B3 :5530 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11060.00	Average	23.28	21.53	44.81	54.00	-9.19
11060.00	Peak	33.12	21.53	54.65	74.00	-19.35

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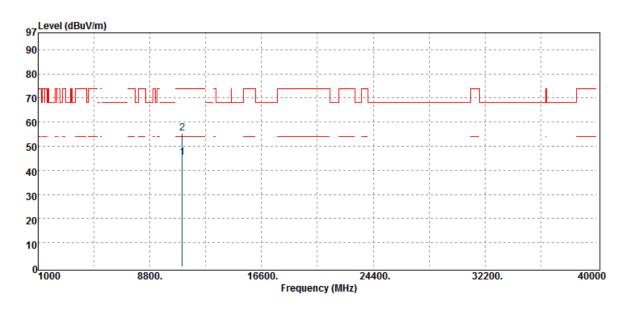
Report No.: ER/2018/90026 Page: 269 of 385



:802.11ac80B3
:5530 MHz
:Tx CH LOW
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11060.00	Average	23.64	21.53	45.17	54.00	-8.83
11060.00	Peak	33.77	21.53	55.30	74.00	-18.70

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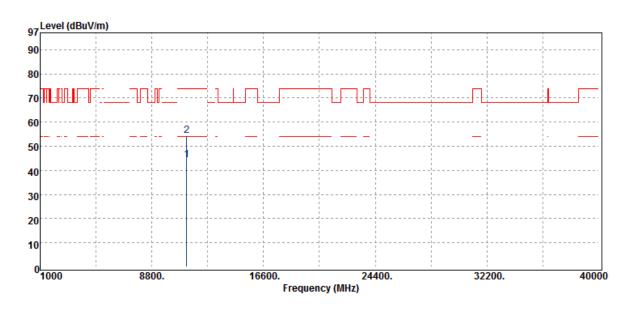
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Operation Band	:802.11ac80B3
Fundamental Frequency	:5610 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11220.00	Average	22.68	21.56	44.24	54.00	-9.76
11220.00	Peak	32.71	21.56	54.27	74.00	-19.73

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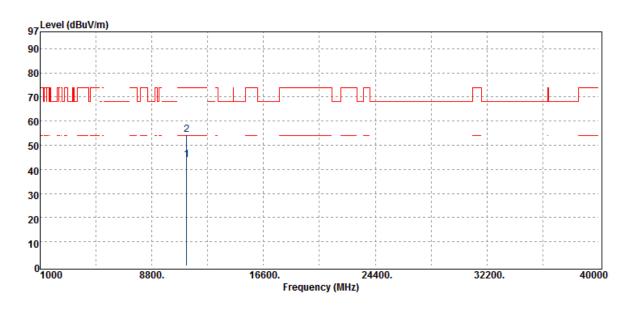
Report No.: ER/2018/90026 Page: 271 of 385



Operation Band	:802.11ac80B3
Fundamental Frequency	:5610 MHz
Operation Mode	:Tx CH HIGH
EUT Pol.	:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
11220.00	Average	22.47	21.56	44.03	54.00	-9.97	•
11220.00	Peak	32.68	21.56	54.24	74.00	-19.76	

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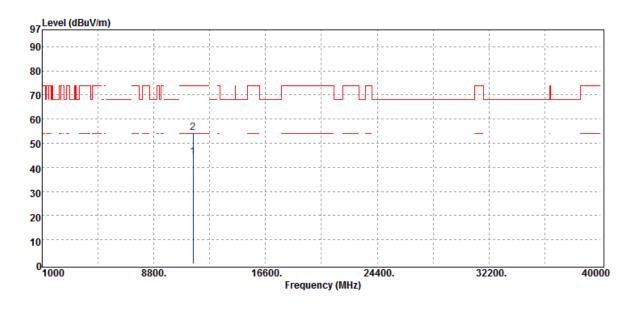
# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

**Operation Band** Fundamental Frequency **Operation Mode** EUT Pol.

:802.11ac80B4 :5775 MHz :Tx CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11550.00	Average	22.63	21.66	44.29	54.00	-9.71
11550.00	Peak	32.57	21.66	54.23	74.00	-19.77

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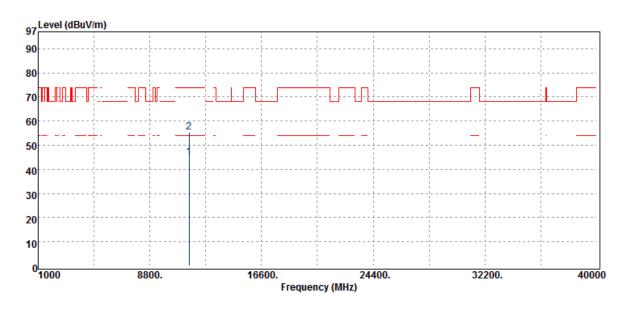
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:802.11ac80B4
:5775 MHz
Tx CH LOW
:E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-28 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11550.00	Average	23.39	21.66	45.05	54.00	-8.95
11550.00	Peak	33.67	21.66	55.33	74.00	-18.67

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# Band edge falling to restricted band

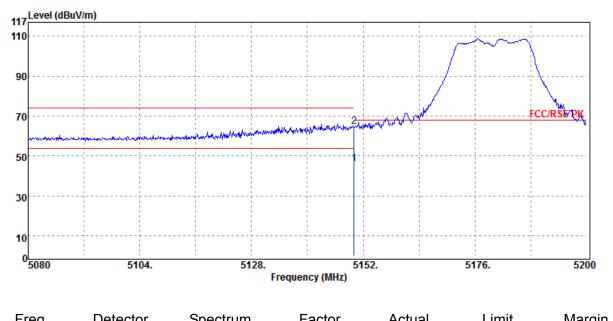
### External Antenna (Type: Dipole antenna, Model No.: R380500314)

#### 802.11a mode

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB1 :5180 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol. :2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



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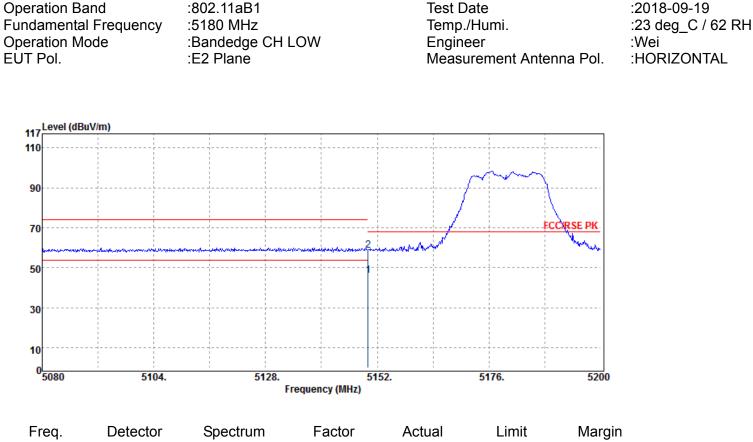
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Delector		T actor		-	Margin
Mode	Reading Level		FS	@3m	
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
Average	37.67	8.32	45.99	54.00	-8.01
Peak	50.52	8.32	58.84	74.00	-15.16
	Mode PK/QP/AV Average	ModeReading LevelPK/QP/AVdBµVAverage37.67	ModeReading LevelPK/QP/AVdBµVdBAverage37.678.32	ModeReading LevelFSPK/QP/AVdBµVdBdBµV/mAverage37.678.3245.99	Mode Reading Level FS @3m   PK/QP/AV dBμV dB dBμV/m dBμV/m   Average 37.67 8.32 45.99 54.00

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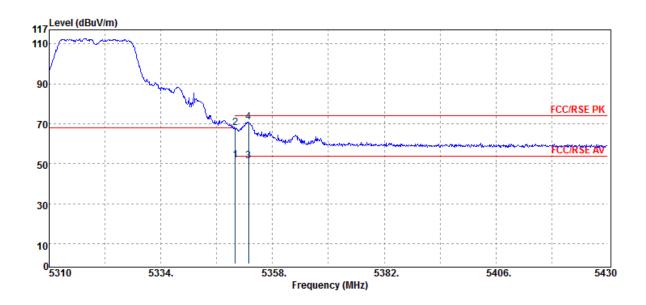


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB2 :5320 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	43.05	8.63	51.68	54.00	-2.32
5350.00	Peak	59.18	8.63	67.81	74.00	-6.19
5352.84	Average	42.96	8.65	51.61	54.00	-2.39
5352.84	Peak	62.39	8.65	71.04	74.00	-2.96

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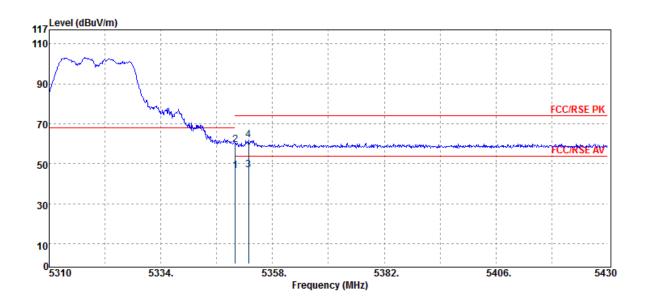


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB2 :5320 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



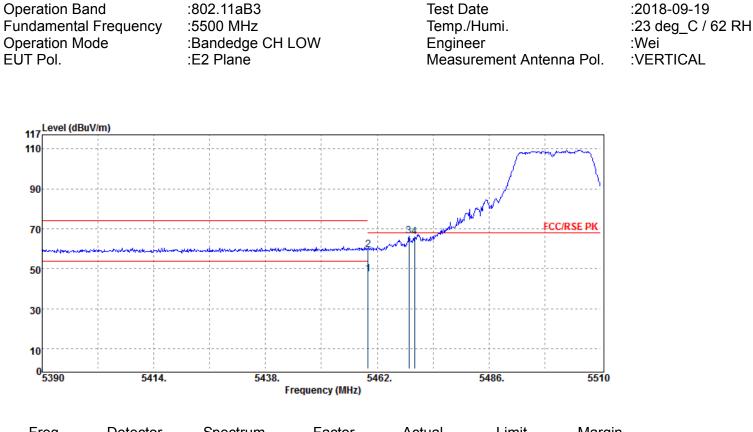
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	38.07	8.63	46.70	54.00	-7.30
5350.00	Peak	51.02	8.63	59.65	74.00	-14.35
5352.84	Average	38.29	8.65	46.94	54.00	-7.06
5352.84	Peak	53.11	8.65	61.76	74.00	-12.24

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	⊢req.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
_	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
	5460.00	Average	38.42	8.75	47.17	54.00	-6.83	_
	5460.00	Peak	50.90	8.75	59.65	74.00	-14.35	
	5468.84	Peak	57.61	8.74	66.35	68.20	-1.85	
	5470.00	Peak	57.14	8.74	65.88	68.20	-2.32	

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**Operation Band** :802.11aB3 Test Date :2018-09-19 **Fundamental Frequency** :5500 MHz Temp./Humi. :23 deg\_C / 62 RH **Operation Mode** :Bandedge CH LOW :Wei Engineer EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL evel (dBuV/m) 117 110 90 70 3 50 30 10 0 5390 5414. 5510 5438 5462. 5486. Frequency (MHz)

Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Average	37.40	8.75	46.15	54.00	-7.85
5460.00	Peak	50.26	8.75	59.01	74.00	-14.99
5470.00	Peak	51.30	8.74	60.04	68.20	-8.16

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**Operation Band** :802.11aB3 Test Date :2018-09-19 **Fundamental Frequency** :5700 MHz Temp./Humi. :23 deg\_C / 62 RH **Operation Mode** :Bandedge CH HIGH Engineer :Wei EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL ,Level (dBuV/m) 117 110 90 70 50 30 10 0 5690 5714. 5810 5738 5762. 5786. Frequency (MHz) Freq. Detector Spectrum Factor Actual Limit Margin **Reading Level** Mode FS @3m MHz PK/QP/AV dBµV dB dBµV/m dBµV/m dB 5725.00 Peak 57.21 9.44 66.65 68.20 -1.55

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:2018-09-19

Test Date



5725.00

Peak

**Operation Band Fundamental Frequency** :5700 MHz Temp./Humi. :23 deg\_C / 62 RH **Operation Mode** :Wei :Bandedge CH HIGH Engineer EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL Level (dBuV/m) 117 110 90 70 50 30 10 0 5690 5714. 5810 5738 5762. 5786. Frequency (MHz) Freq. Detector Spectrum Factor Actual Limit Margin **Reading Level** Mode FS @3m MHz PK/QP/AV dBµV dB dBµV/m dBµV/m dB

9.44

61.13

68.20

-7.07

:802.11aB3

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

51.69

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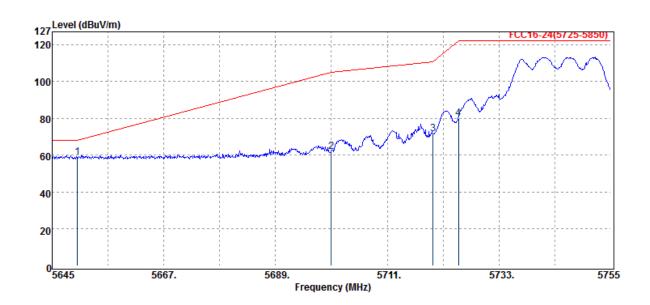


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB4 :5745 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	49.72	9.20	58.92	68.23	-9.31
5700.00	Peak	52.48	9.35	61.83	105.23	-43.40
5720.00	Peak	62.40	9.43	71.83	110.83	-39.00
5725.00	Peak	70.38	9.44	79.82	122.23	-42.41

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Member of SGS Group

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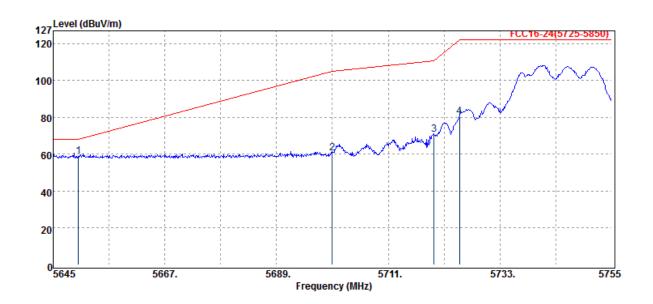


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB4 :5745 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	49.54	9.20	58.74	68.23	-9.49
5700.00	Peak	51.42	9.35	60.77	105.23	-44.46
5720.00	Peak	61.42	9.43	70.85	110.83	-39.98
5725.00	Peak	70.83	9.44	80.27	122.23	-41.96

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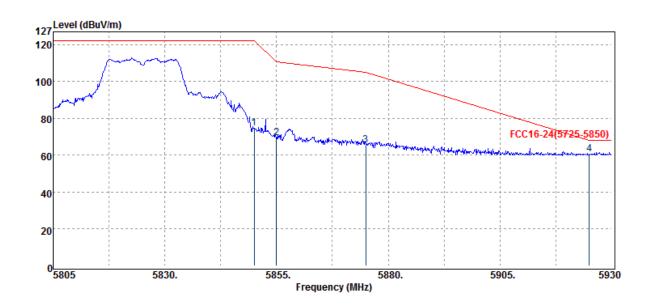


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB4 :5825 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	64.80	9.77	74.57	122.23	-47.66
5855.00	Peak	59.63	9.78	69.41	110.83	-41.42
5875.00	Peak	55.67	9.82	65.49	105.23	-39.74
5925.00	Peak	50.59	9.98	60.57	68.23	-7.66

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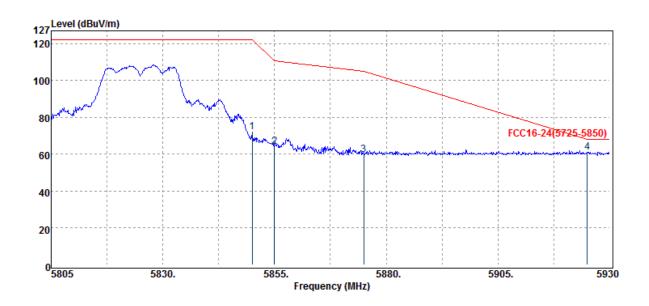


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB4 :5825 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	62.32	9.77	72.09	122.23	-50.14
5855.00	Peak	54.39	9.78	64.17	110.83	-46.66
5875.00	Peak	50.16	9.82	59.98	105.23	-45.25
5925.00	Peak	50.99	9.98	60.97	68.23	-7.26

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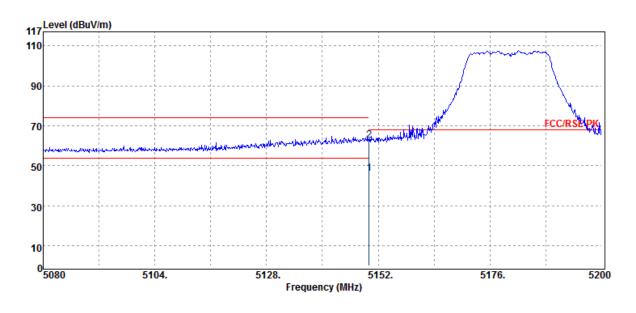
# 802.11n20 HT mode

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B1 :5180 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-18 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	Average	38.03	8.32	46.35	54.00	-7.65
5150.00	Peak	54.36	8.32	62.68	74.00	-11.32

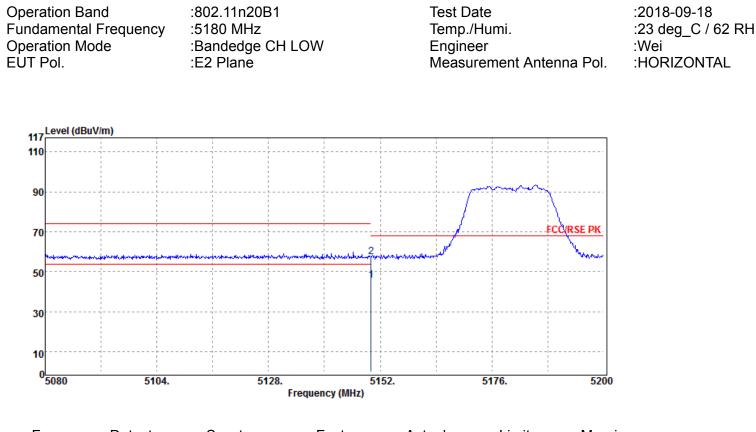
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Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level		FS	@3m	
PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
Average	37.51	8.32	45.83	54.00	-8.17
Peak	49.21	8.32	57.53	74.00	-16.47
	Mode PK/QP/AV Average	ModeReading LevelPK/QP/AVdBµVAverage37.51	ModeReading LevelPK/QP/AVdBµVdBAverage37.518.32	ModeReading LevelFSPK/QP/AVdBµVdBdBµV/mAverage37.518.3245.83	Mode Reading Level FS @3m   PK/QP/AV dBμV dB dBμV/m dBμV/m   Average 37.51 8.32 45.83 54.00

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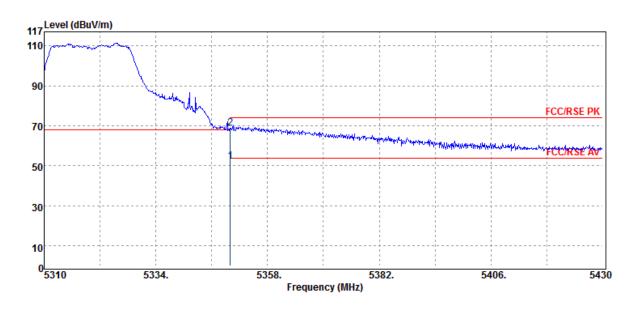


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B2 :5320 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-18 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	43.45	8.63	52.08	54.00	-1.92
5350.00	Peak	60.36	8.63	68.99	74.00	-5.01

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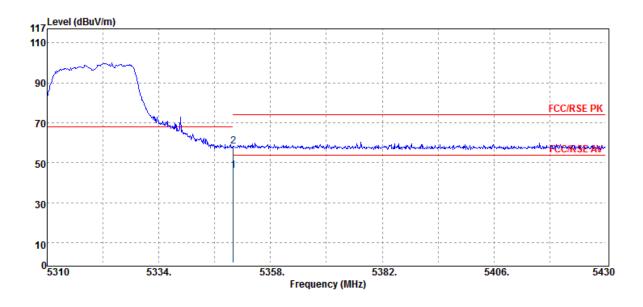


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B2 :5320 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-18 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	37.37	8.63	46.00	54.00	-8.00
5350.00	Peak	49.78	8.63	58.41	74.00	-15.59

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5510

:2018-09-18

:VERTICAL

:Wei

:23 deg\_C / 62 RH

Test Date

5486.



5414.

**Operation Band Fundamental Frequency** :5500 MHz Temp./Humi. **Operation Mode** :Bandedge CH LOW Engineer EUT Pol. :E2 Plane Measurement Antenna Pol. evel (dBuV/m) 117 110 90 Maria CC/RSE PK 70 50 30 10 0 5390

5438

:802.11n20B3

Freq. Detector Spectrum Factor Actual Limit Margin Mode Reading Level FS @3m MHz PK/QP/AV dBµV dB dBµV/m dBµV/m dB 5460.00 Average 38.41 8.75 47.16 54.00 -6.84 5460.00 Peak 55.62 8.75 64.37 74.00 -9.63 5470.00 Peak 58.37 8.74 67.11 68.20 -1.09

Frequency (MHz)

5462.

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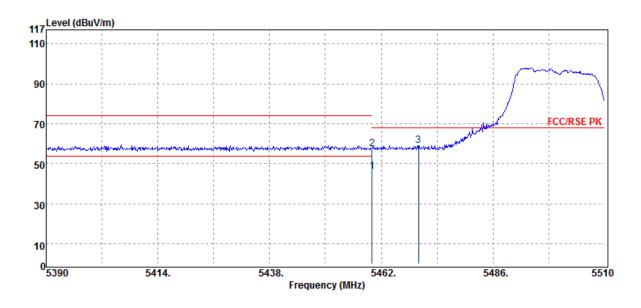


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5500 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-18 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Average	37.33	8.75	46.08	54.00	-7.92
5460.00	Peak	48.77	8.75	57.52	74.00	-16.48
5470.00	Peak	50.26	8.74	59.00	68.20	-9.20

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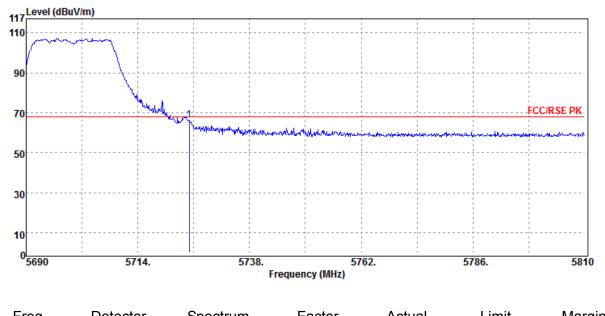


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5700 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Delector	Spectrum	Factor	Actual	LIMIL	wargin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
5725.00	Peak	57.06	9.44	66.50	68.20	-1.70	_

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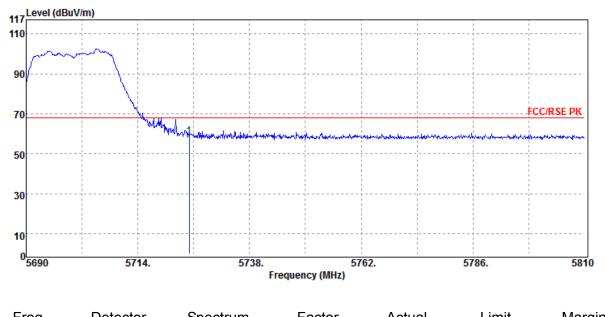


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5700 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Fleq.	Delector	Spectrum	Factor	Actual		Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
5725.00	Peak	49.12	9.44	58.56	68.20	-9.64	

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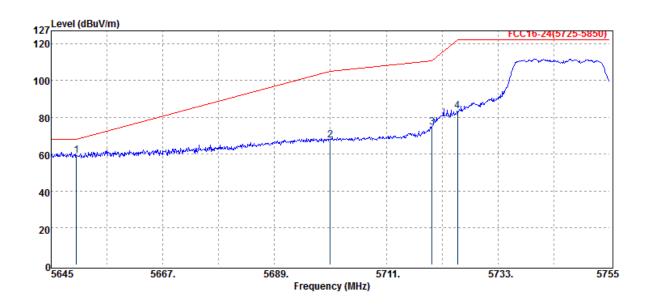


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5745 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	50.11	9.20	59.31	68.23	-8.92
5700.00	Peak	58.16	9.35	67.51	105.23	-37.72
5720.00	Peak	65.30	9.43	74.73	110.83	-36.10
5725.00	Peak	74.27	9.44	83.71	122.23	-38.52

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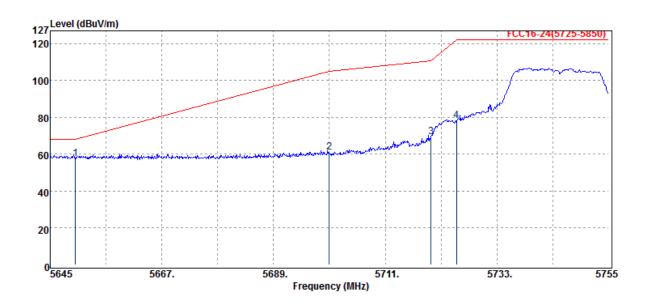


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5745 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	48.28	9.20	57.48	68.23	-10.75
5700.00	Peak	51.56	9.35	60.91	105.23	-44.32
5720.00	Peak	60.20	9.43	69.63	110.83	-41.20
5725.00	Peak	68.60	9.44	78.04	122.23	-44.19

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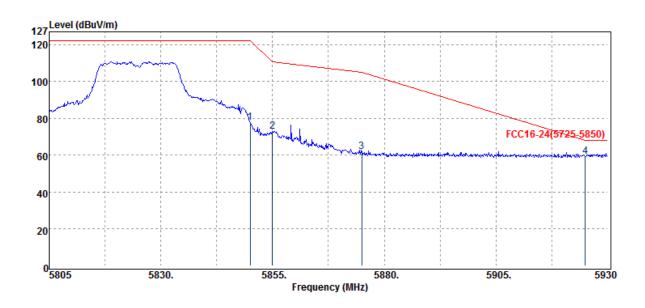


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5825 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	67.85	9.77	77.62	122.23	-44.61
5855.00	Peak	63.28	9.78	73.06	110.83	-37.77
5875.00	Peak	52.25	9.82	62.07	105.23	-43.16
5925.00	Peak	49.54	9.98	59.52	68.23	-8.71

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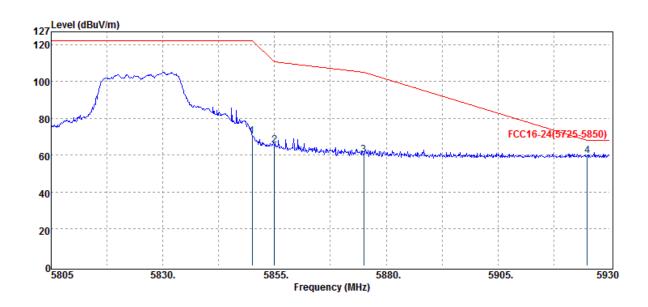


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5825 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	60.53	9.77	70.30	122.23	-51.93
5855.00	Peak	55.53	9.78	65.31	110.83	-45.52
5875.00	Peak	50.49	9.82	60.31	105.23	-44.92
5925.00	Peak	49.69	9.98	59.67	68.23	-8.56

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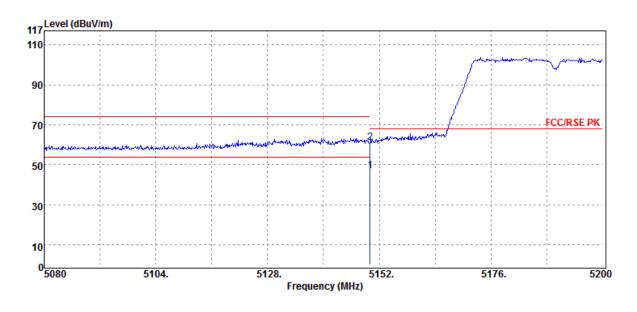
# 802.11n40 HT mode

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B1 :5190 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
5150.00	Average	38.72	8.32	47.04	54.00	-6.96	-
5150.00	Peak	52.79	8.32	61.11	74.00	-12.89	

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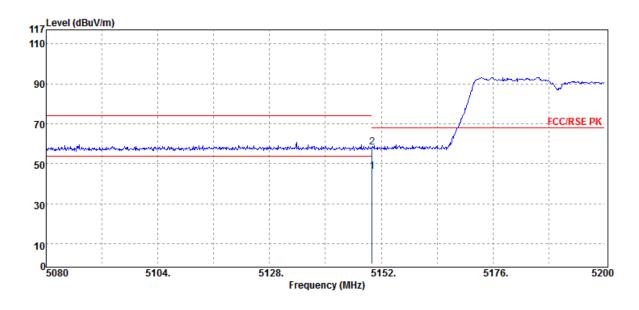


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B1 :5190 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	Average	37.80	8.32	46.12	54.00	-7.88
5150.00	Peak	50.18	8.32	58.50	74.00	-15.50

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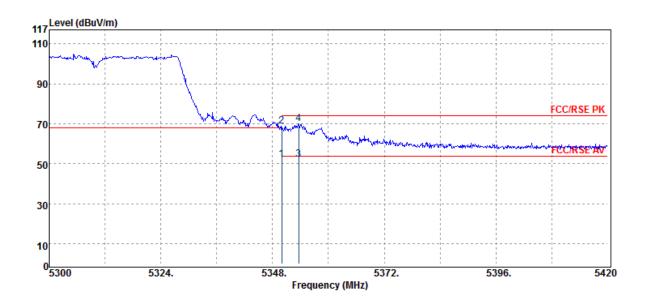


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B2 :5310 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	43.51	8.63	52.14	54.00	-1.86
5350.00	Peak	60.09	8.63	68.72	74.00	-5.28
5353.64	Average	43.42	8.65	52.07	54.00	-1.93
5353.64	Peak	61.41	8.65	70.06	74.00	-3.94

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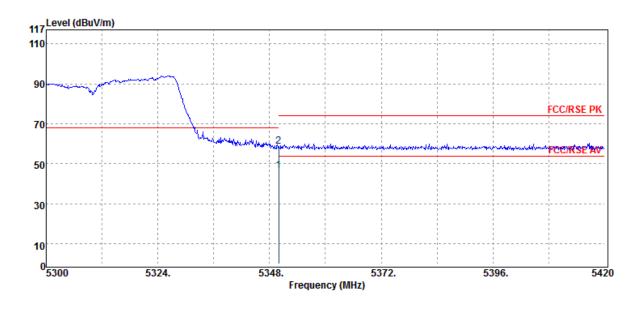


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B2 :5310 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	37.99	8.63	46.62	54.00	-7.38
5350.00	Peak	49.98	8.63	58.61	74.00	-15.39

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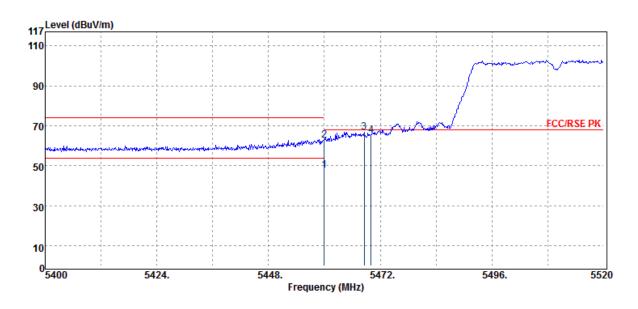


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Average	38.94	8.75	47.69	54.00	-6.31
5460.00	Peak	53.97	8.75	62.72	74.00	-11.28
5468.52	Peak	58.14	8.74	66.88	68.20	-1.32
5470.00	Peak	56.55	8.74	65.29	68.20	-2.91

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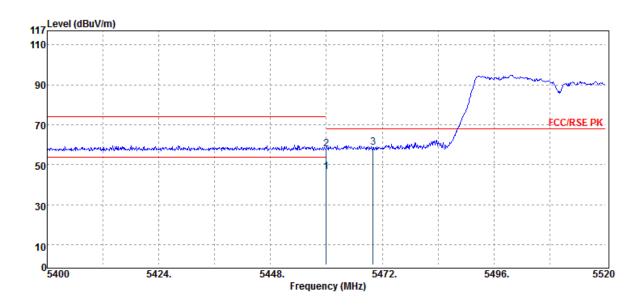


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5510 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Average	37.78	8.75	46.53	54.00	-7.47
5460.00	Peak	49.06	8.75	57.81	74.00	-16.19
5470.00	Peak	49.94	8.74	58.68	68.20	-9.52

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5726.36

Peak

**Operation Band** :802.11n40B3 Test Date :2018-09-19 **Fundamental Frequency** :5670 MHz Temp./Humi. :23 deg\_C / 62 RH **Operation Mode** :Wei :Bandedge CH HIGH Engineer EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL Level (dBuV/m) 117 110 90 70 50 30 10 0 5660 5684. 5708 5732. 5756. 5780 Frequency (MHz) Freq. Detector Spectrum Factor Actual Limit Margin **Reading Level** Mode FS @3m MHz PK/QP/AV dBµV dB dBµV/m dBµV/m dB 5725.00 Peak 54.18 9.44 63.62 68.20 -4.58

9.44

66.70

68.20

-1.50

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57.26

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**Operation Band** :802.11n40B3 Test Date :2018-09-19 **Fundamental Frequency** :5670 MHz Temp./Humi. :23 deg\_C / 62 RH **Operation Mode** :Bandedge CH HIGH :Wei Engineer EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL evel (dBuV/m) 117 110 90 70 50 30 10 0 5660 5684. 5756. 5708 5732. 5780 Frequency (MHz) Freq. Detector Spectrum Factor Actual Limit Margin Mode Reading Level FS @3m MHz PK/QP/AV dBµV dB dBµV/m dBµV/m dB 5725.00 Peak 53.14 9.44 62.58 68.20 -5.62

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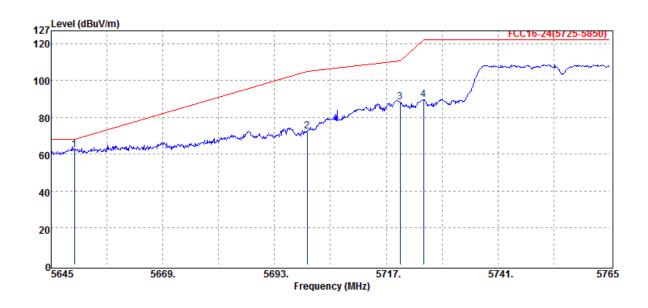


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B4 :5755 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	53.41	9.20	62.61	68.23	-5.62
5700.00	Peak	62.95	9.35	72.30	105.23	-32.93
5720.00	Peak	78.74	9.43	88.17	110.83	-22.66
5725.00	Peak	80.20	9.44	89.64	122.23	-32.59

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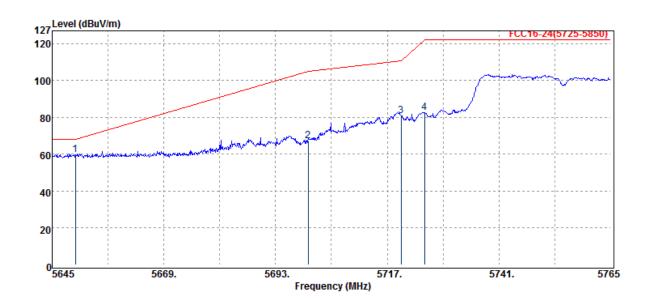


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B4 :5755 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5650.00	Peak	50.53	9.20	59.73	68.23	-8.50
5700.00	Peak	57.79	9.35	67.14	105.23	-38.09
5720.00	Peak	71.48	9.43	80.91	110.83	-29.92
5725.00	Peak	73.12	9.44	82.56	122.23	-39.67

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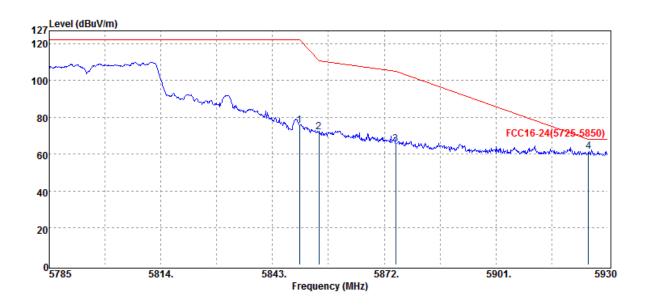


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B4 :5795 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	65.64	9.77	75.41	122.23	-46.82
5855.00	Peak	62.30	9.78	72.08	110.83	-38.75
5875.00	Peak	55.82	9.82	65.64	105.23	-39.59
5925.00	Peak	51.70	9.98	61.68	68.23	-6.55

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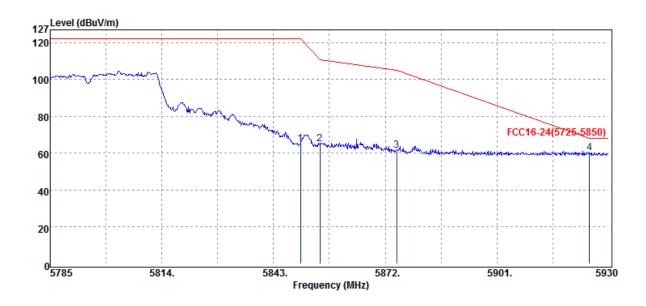


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B4 :5795 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	Peak	55.08	9.77	64.85	122.23	-57.38
5855.00	Peak	55.25	9.78	65.03	110.83	-45.80
5875.00	Peak	51.58	9.82	61.40	105.23	-43.83
5925.00	Peak	50.11	9.98	60.09	68.23	-8.14

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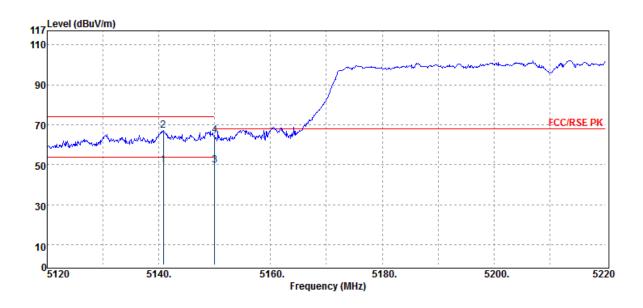
## 802.11ac80 VHT mode

**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B1 :5210 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5140.80	Average	41.61	8.30	49.91	54.00	-4.09
5140.80	Peak	58.79	8.30	67.09	74.00	-6.91
5150.00	Average	41.58	8.32	49.90	54.00	-4.10
5150.00	Peak	56.61	8.32	64.93	74.00	-9.07

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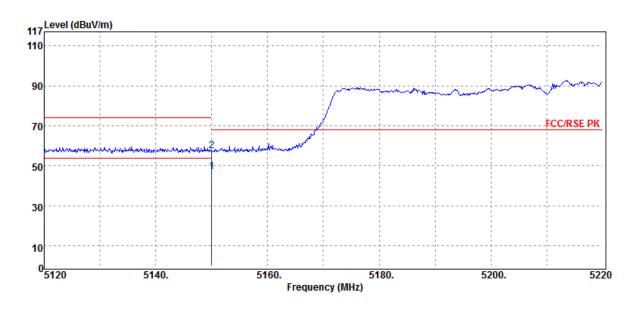


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B1 :5210 MHz :Bandedge CH LOW :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB	
5150.00	Average	38.59	8.32	46.91	54.00	-7.09	-
5150.00	Peak	49.12	8.32	57.44	74.00	-16.56	

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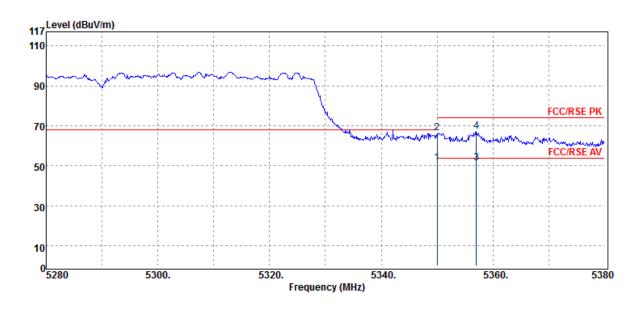


**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11ac80B2 :5290 MHz :Bandedge CH HIGH :E2 Plane

Test Date Temp./Humi. Engineer Measurement Antenna Pol.

:2018-09-19 :23 deg\_C / 62 RH :Wei :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Average	42.63	8.63	51.26	54.00	-2.74
5350.00	Peak	57.66	8.63	66.29	74.00	-7.71
5357.00	Average	42.69	8.65	51.34	54.00	-2.66
5357.00	Peak	58.37	8.65	67.02	74.00	-6.98

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