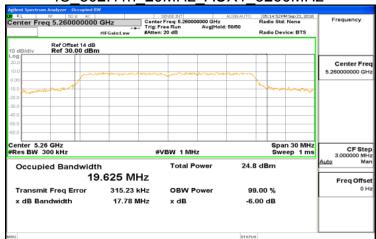


Page: 48 of 385

#### IC 802.11n 20MHz AUX1 5180MHz

#### IC 802.11n 20MHz AUX1 5260MHz

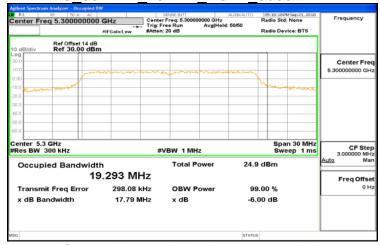




### IC 802.11n 20MHz AUX1 5220MHz

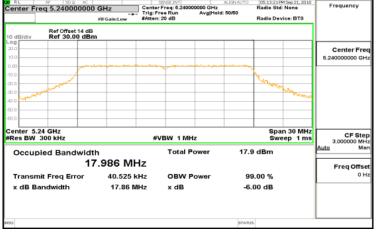
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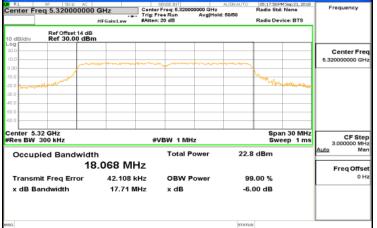




### IC 802.11n 20MHz AUX1 5240MHz

### IC 802.11n 20MHz AUX1 5320MHz





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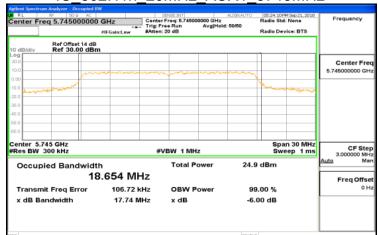


Page: 49 of 385

### IC 802.11n 20MHz AUX1 5500MHz

#### Ref Offset 14 dB Ref 30.00 dBr Center Fre enter 5.5 GHz Res BW 300 kHz Span 30 MHz CF Step 3.0000000 21.4 dBm Total Power Occupied Bandwidth 18.015 MHz Freq Offse Transmit Freq Error OBW Powe 40.252 kHz 99.00 % 0 H x dB Bandwidth 17.69 MHz x dB -6.00 dB

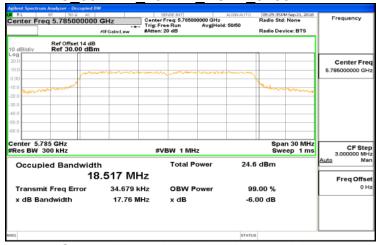
#### IC 802.11n 20MHz AUX1 5745MHz



### IC 802.11n 20MHz AUX1 5580MHz



### IC 802.11n 20MHz AUX1 5785MHz



### IC 802.11n 20MHz AUX1 5700MHz



## IC 802.11n 20MHz AUX1 5825MHz



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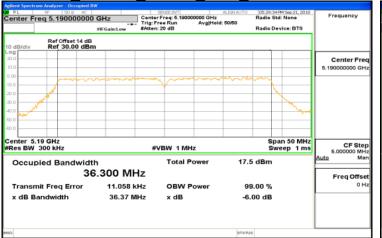
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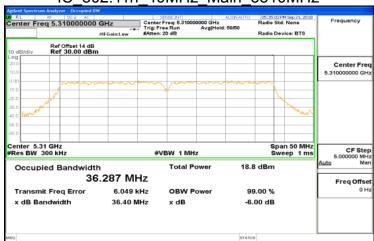


Page: 50 of 385

#### IC 802.11n 40MHz Main 5190MHz

#### IC 802.11n 40MHz Main 5310MHz





IC 802.11n 40MHz Main 5230MHz

enter Freq 5.230000000 GHz Center Free Span 50 MHz er 5.23 GHz CF Step 5.000000 MHz Occupied Bandwidth Total Pow 17.8 dBm 36.294 MHz Freq Offse 1.992 kHz 99.00 % Transmit Freq Error **OBW Power** 36.37 MHz -6.00 dB x dB

enter Freq 5.510000000 GHz

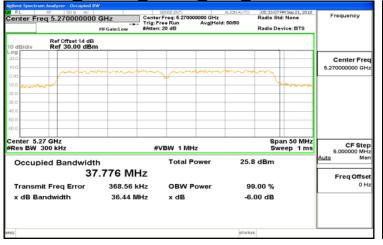
Center Freq 5.51 Trig: Free Run Ref Offset 14 dB Ref 30.00 dBm Center Free Center 5.51 GHz Span 50 MHz CF Step 5.000000 MH Occupied Bandwidth Total Powe 18.7 dBm

Freq Offse

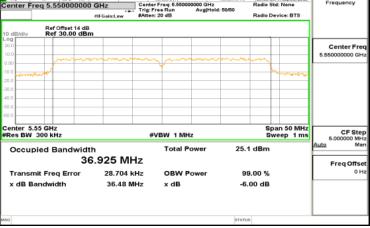
IC 802.11n 40MHz Main 5510MHz

36.286 MHz -1.387 kHz Transmit Freq Error **OBW Power** 99.00 % 36.40 MHz x dB Bandwidth -6.00 dB x dB

IC 802.11n 40MHz Main 5270MHz







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er 5.755 GHz

Occupied Bandwidth

Transmit Freq Error

36.722 MHz

22.269 kHz

36.53 MHz

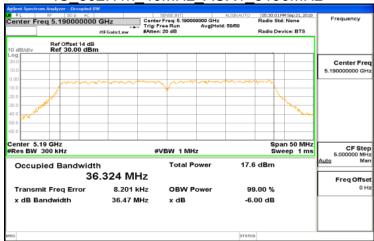
Report No.: ER/2018/90026

Page: 51 of 385

#### IC 802.11n 40MHz Main 5670MHz

### IC 802.11n 40MHz AUX1 5190MHz





IC 802.11n 40MHz Main 5755MHz

enter Freq 5.755000000 GHz

Center Free CF Step 5.000000 MHz Freq Offse

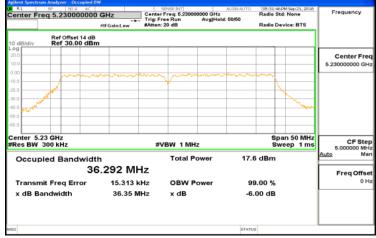
Span 50 MHz

25.5 dBm

99.00 %

-6.00 dB

IC 802.11n 40MHz AUX1 5230MHz

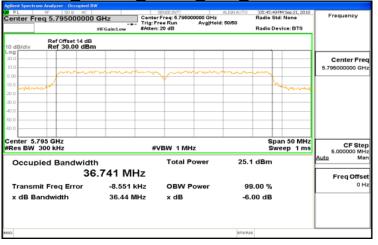


IC 802.11n 40MHz Main 5795MHz

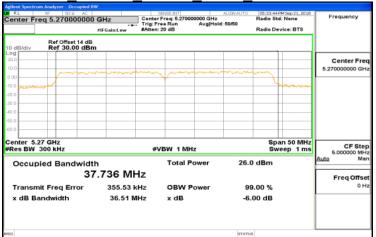
Total Pow

**OBW Power** 

x dB



IC 802.11n 40MHz AUX1 5270MHz



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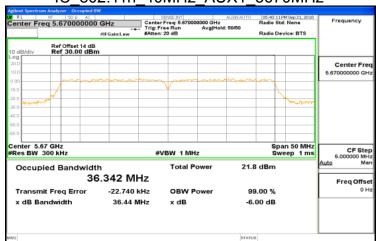


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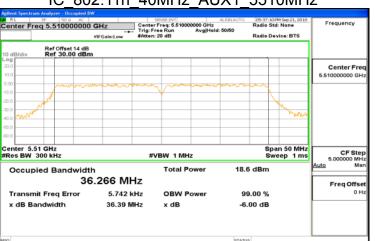
#### IC 802.11n 40MHz AUX1 5310MHz

## IC 802.11n 40MHz AUX1 5670MHz

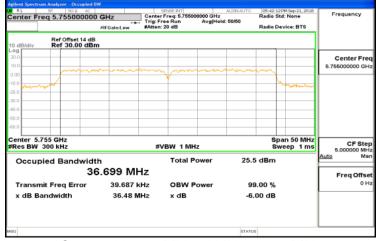




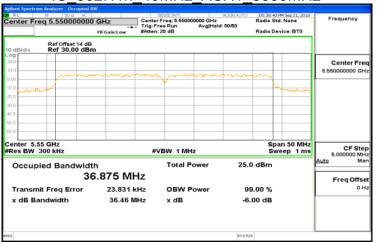
IC 802.11n 40MHz AUX1 5510MHz



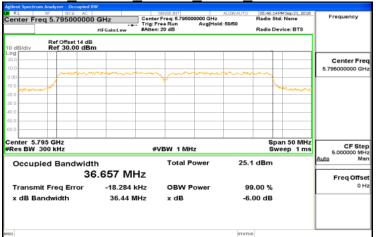
IC 802.11n 40MHz AUX1 5755MHz



IC 802.11n 40MHz AUX1 5550MHz



IC 802.11n 40MHz AUX1 5795MHz



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Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

75.644 MHz

180.86 kHz

76.35 MHz

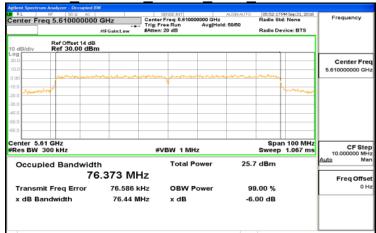
Report No.: ER/2018/90026

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#### IC 802.11ac 80MHz Main 5210MHz

# Ref Offset 14 dB Ref 30.00 dBr Center Fre r 5.21 GHz BW 300 kHz CF Step 10.0000000 M #VBW 1 MHz

### IC 802.11ac 80MHz Main 5610MHz



### IC 802.11ac 80MHz Main 5290MHz

Total Power

OBW Power

x dB

18.1 dBm

99.00 %

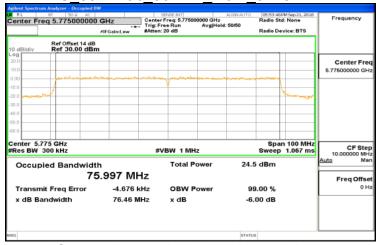
-6.00 dB

Freq Offse

0 H



### IC 802.11ac 80MHz Main 5775MHz



### IC 802.11ac 80MHz Main 5530MHz



## IC 802.11ac 80MHz AUX1 5210MHz



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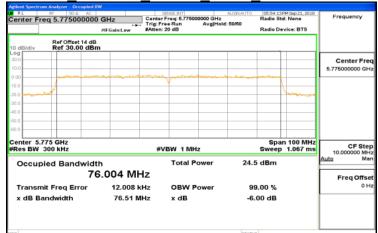


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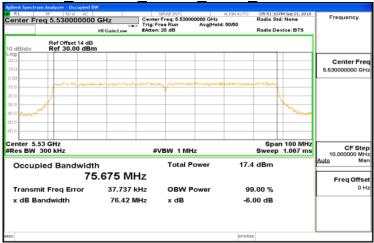
#### IC 802.11ac 80MHz AUX1 5290MHz



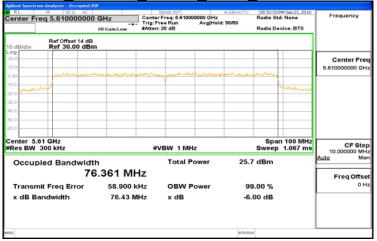
#### IC 802.11ac 80MHz AUX1 5775MHz



### IC 802.11ac 80MHz AUX1 5530MHz



### IC 802.11ac 80MHz AUX1 5610MHz



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### MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 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)
	V	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	V		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	V		1 Watt(30dBm)

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 direction-al gain of the antenna exceeds 6 dBi.

#### **ISED**

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log <sub>10</sub> B, dBm
5250~5350 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
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 *5725-5850* 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.
- 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).
- Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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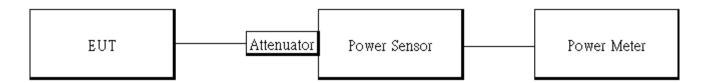


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## 9.3 Measurement Equipment Used

	SGS Conducted Room													
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)			
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

002.11a_	CITT								
СН	Frequency (MHz)	Data Rate	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)		REQUIRED LIMIT (dBm)			
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

			A۱	g. POV	/ER (dE	lm)	TOTAL	TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	CH 0	CH 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)			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)		
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	CH 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)		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

	F	Data	A۱	/g. POV	/ER (dE	Bm)	TOTAL	TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	CH 0	CH 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)		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)		
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

	_		A۱	/g. POV	/ER (dB	m)	TOTAL	TOTAL		REQUIRED		
СН	Frequency (MHz)	Data Rate	CH 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

002.11a							
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

002.11a											
	_	AVER	AGE PO	OWER (	dBm)	TOTAL	TOTAL		REQUIRED		
СН	(MHz)		CH 1	CH 2	СНЗ	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)	(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

002.1111												
		AVER	AGE PO	OWER (	dBm)	TOTAL POWER +	TOTAL POWER +		REQUIRED			
СН	(MHz)		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

002:::::	_11170_0110						
СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	(dBm)			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

	<u> </u>						
СН	Frequency (MHz)	TOTAL POWER + TOLERANCE (dBm)	TOTAL POWER + TOLERANCE (mW)	REQUIRED LIMIT (dBm)			RESULT
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

	Eroguenou	AVER	AGE PO	OWER (	dBm)	TOTAL POWER +	TOTAL POWER +	REQUIRED			
СН	Frequency (MHz)	CH 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 +	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

	F	AVER	AGE PO	OWER (	dBm)	TOTAL	TOTAL	(asm)			
СН	Frequency (MHz)	CH 0	CH 1	CH 2	СНЗ	POWER + TOLERANCE (dBm)	POWER + TOLERANCE (mW)			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

802.11a	_Cnu								
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

CH	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 $10+10\log(B)=$	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

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		
42	5210	10.31	5.000	15.31	33.946	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

#### 10.1 Standard Applicable

#### **FCC**

OPERZTION Band		EUT CATEGORY	LIMIT
		Access Point (Master device )	17dBm/ MHz
U-NII-1		Fixed point-to-point Access Ponit	TAUDITI/ IVII IZ
		Mobile and portable client device	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3			30dBm/ 500kHz

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.

#### **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 5725-5850 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.
- 3. 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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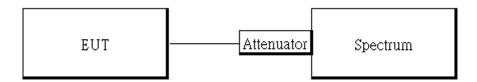


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#### 10.3 **Measurement Equipment Used**

	SGS Conducted Room									
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 DI	ENSITY 8	302.11n H	IT20 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 DENSITY 802.11n HT40 MODE									
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	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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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.	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 EI						EIRP	EIRP spectral density 802.11ac VHT80 MODE					
(MHz)	(dBm)	Gain (dBi)	SD (dBm)	(dBm)	(dB)	Freq.	PPSD	Ant. Gain	EIRP SD	Limit	Margin	
5180	-7.14	8.01	0.87	10	-9.13	(MHz)	(dBm)	(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

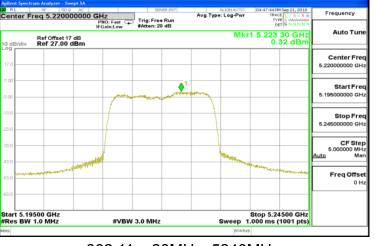
#### 802.11a 20MHz 5260MHz





### 802.11a 20MHz 5220MHz

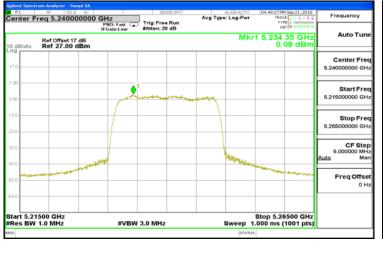
802.11a 20MHz 5300MHz





802.11a\_20MHz\_5240MHz

802.11a\_20MHz\_5320MHz





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### 802.11a 20MHz 5500MHz

### 802.11a 20MHz 5745MHz





802.11a 20MHz 5580MHz

802.11a 20MHz 5785MHz





802.11a\_20MHz\_5700MHz

802.11a\_20MHz\_5825MHz





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### 802.11n 20MHz 5180MHz

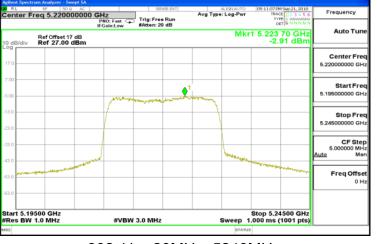
### 802.11n 20MHz 5260MHz





### 802.11n 20MHz 5220MHz

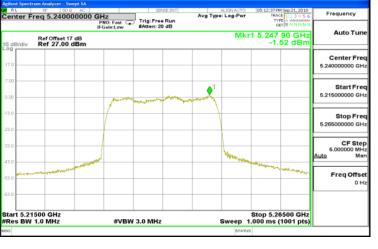
802.11n 20MHz 5300MHz





802.11n\_20MHz\_5240MHz

802.11n\_20MHz\_5320MHz





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### 802.11n 20MHz 5500MHz

### 802.11n 20MHz 5745MHz





802.11n 20MHz 5580MHz

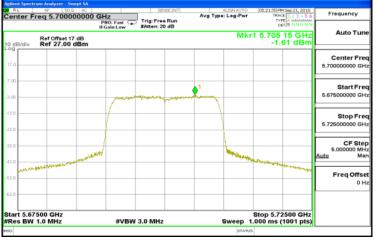
802.11n 20MHz 5785MHz





802.11n\_20MHz\_5700MHz

802.11n\_20MHz\_5825MHz





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### 802.11n 40MHz 5190MHz

### 802.11n 40MHz 5310MHz





802.11n 40MHz 5230MHz

802.11n\_40MHz 5510MHz





802.11n\_40MHz\_5270MHz

802.11n\_40MHz\_5550MHz





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### 802.11n 40MHz 5670MHz

### 802.11ac 80MHz\_5210MHz





802.11n 40MHz 5755MHz

802.11ac\_80MHz\_5290MHz





802.11n\_40MHz\_5795MHz

802.11ac\_80MHz\_5530MHz





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### 802.11ac 80MHz 5610MHz



### 802.11ac\_80MHz\_5775MHz



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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	LI	MIT
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRE	ENGTH AT 3m
	PK: 74 (dBμV/m)	AV 54 (dBµV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 6.2.1.2		
15.407(b)(2) RSS-247 6.2.2.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(3) RSS-247 6.2.3.2		
	PK:-27 (dBm/MHz) *1	PK: 68.2(dBµV/m) *1
15.407(b)(4)(i)	PK:10 (dBm/MHz) *2	PK:105.2 (dBµV/m) *2
RSS-247 6.2.4.2	PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4

<sup>\*1</sup> beyond 75 MHz or more above of the bandedge.

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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<sup>\*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

<sup>\*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

<sup>\*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



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

<u> </u>							
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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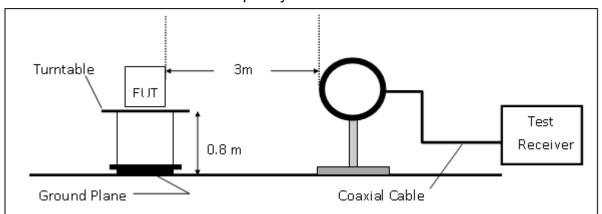
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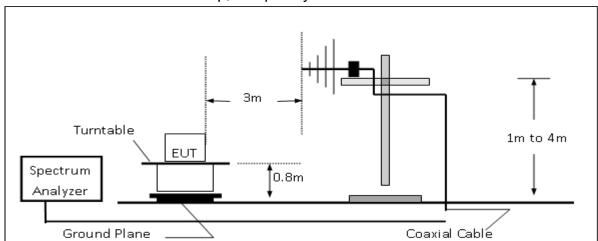
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#### 11.3 **Test SET-UP**

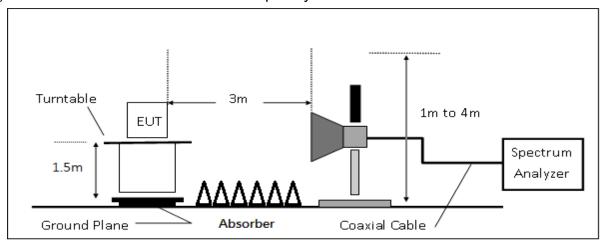
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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 = RA + AF + CL - AG

Where	J	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + 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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:VERTICAL

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Measurement Antenna Pol.

#### **Radiated Spurious Emission Measurement Result**

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

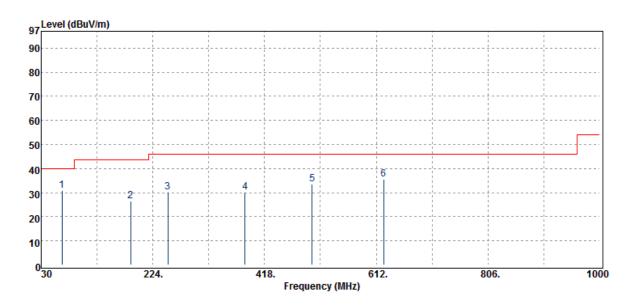
External Antenna (Type: Dipole antenna, Model No.: R380500314)

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



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

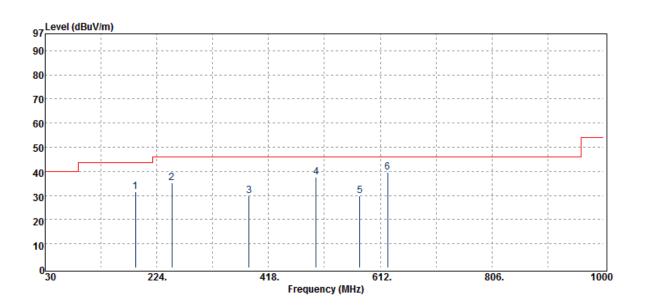
:802.11aB1 :5220 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	Reading Level dBµV	dB	rS dBµV/m	@3m 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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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#### 802.11a 5250~5350 MHz

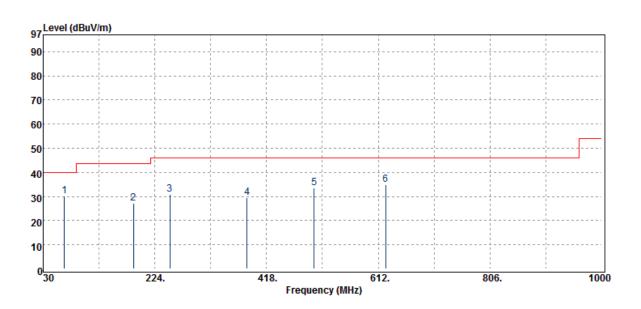
**Operation Band** :802.11aB2 Fundamental Frequency :5300 MHz

**Operation Mode** :Tx CH MID

EUT Pol. :E2 Plane **Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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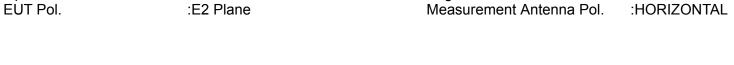
**Operation Band Fundamental Frequency Operation Mode** 

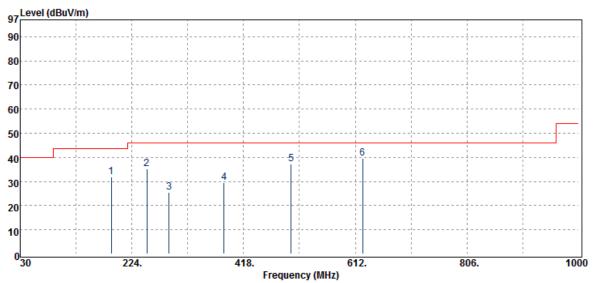
:802.11aB2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei





Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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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:2018-09-20

:Wei

:23 deg\_C / 62 RH

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# 802.11a, 5470~5725 MHz

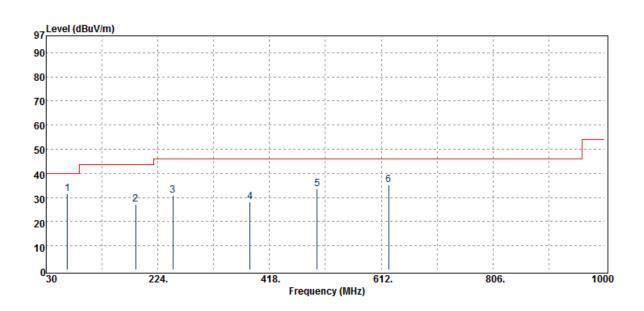
**Operation Band** :802.11aB3 Fundamental Frequency :5580 MHz

**Operation Mode** :Tx CH MID Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

**Test Date** 

Temp./Humi.



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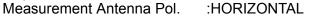
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

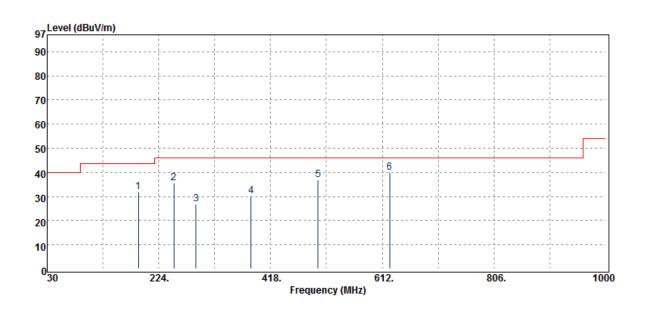
:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei





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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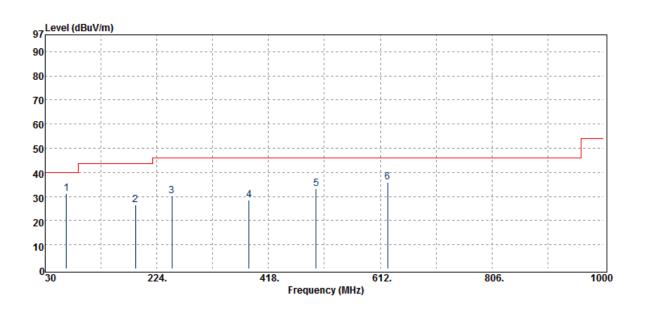
#### 802.11a, 5725~5850 MHz

**Operation Band** :802.11aB4 **Test Date** 

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	<b>@</b> 3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

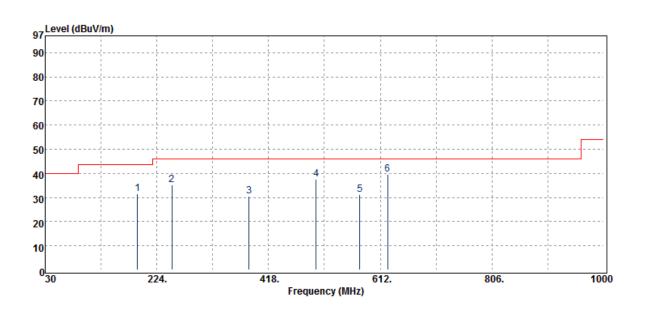
:802.11aB4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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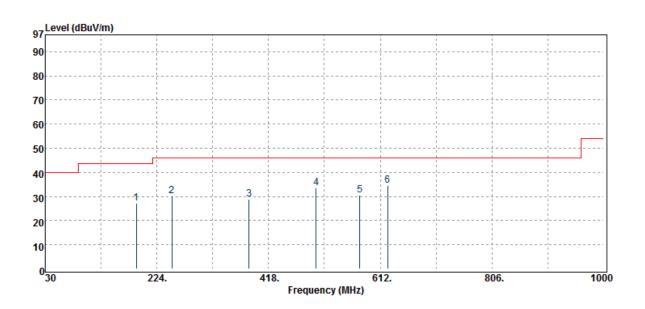
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#### 802.11ac VHT80, 5150~5250 MHz

**Operation Band** :802.11ac80B1 **Test Date** :2018-09-20

Fundamental Frequency :5210 MHz Temp./Humi. :23 deg\_C / 62 RH

Operation Mode :Tx CH LOW 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	dΒμV/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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

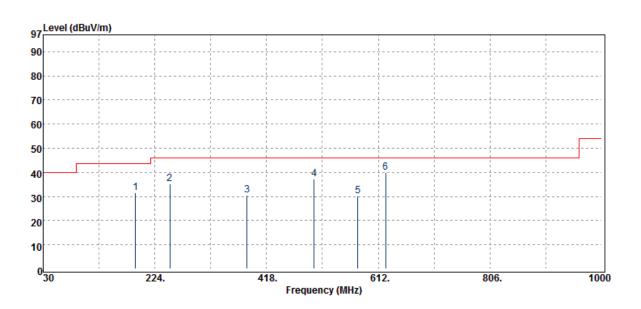
:802.11ac80B1 :5210 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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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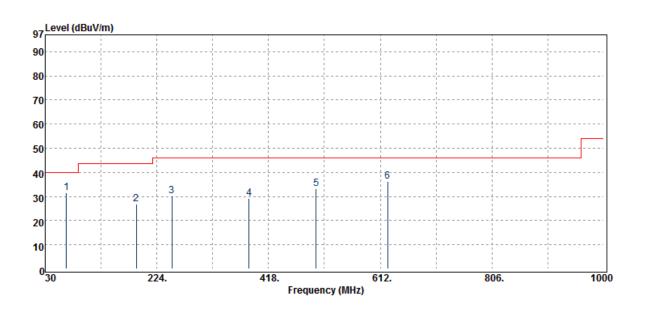
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#### 802.11ac VHT80, 5250~5350 MHz

**Operation Band** :802.11ac80B2 **Test Date** :2018-09-20

Fundamental Frequency :5290 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 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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

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

**Test Date** Temp./Humi. Engineer

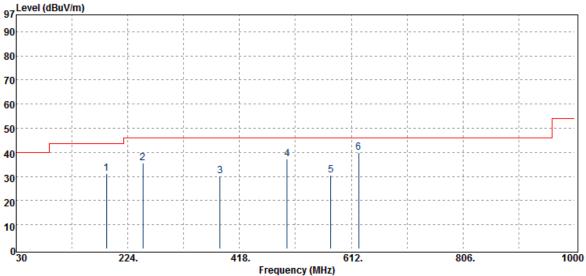
Measurement Antenna Pol.

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

:HORIZONTAL

:Wei





Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	
MHz	PK/QP/AV	dΒμV	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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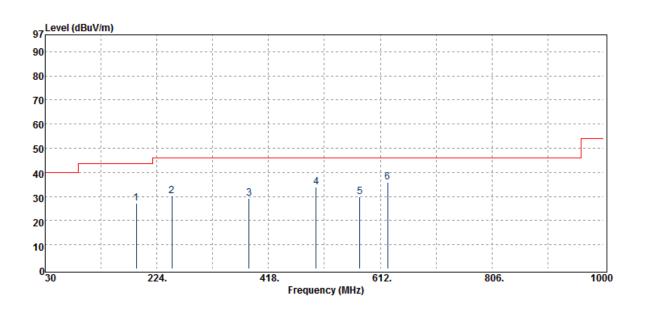
# 802.11ac VHT80, 5470~5725 MHz

**Operation Band** :802.11ac80B3 **Test Date** 

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. :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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Page: 103 of 385

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

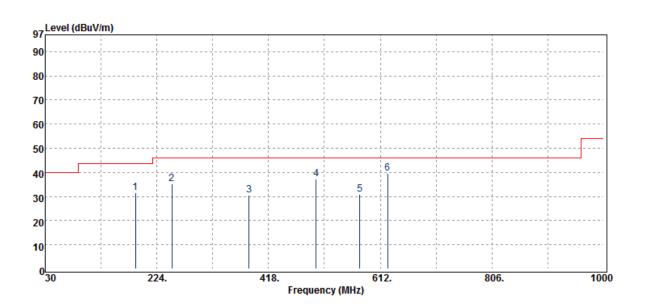
:802.11ac80B3 :5530 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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:2018-09-20

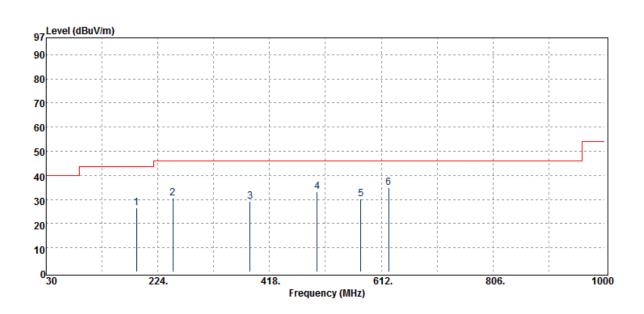
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# 802.11ac VHT80, 5725~5850 MHz

**Operation Band** :802.11ac80B4 **Test Date** 

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

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

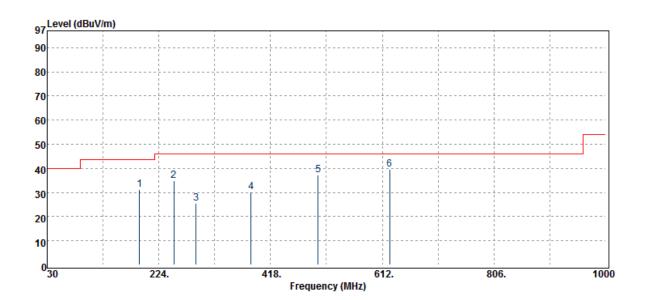
**Test Date** Temp./Humi. Engineer

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

:HORIZONTAL

:Wei

Measurement Antenna Pol.



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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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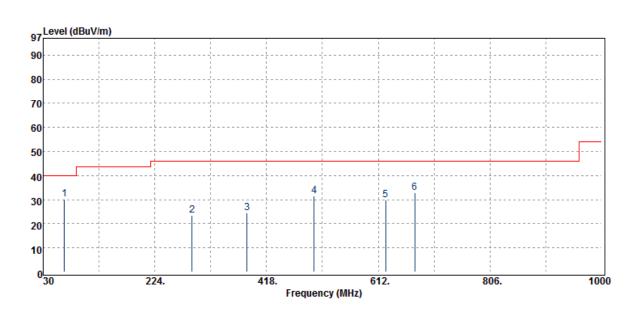
# Internal Antenna (Type: Printed antenna, Model no: N/A)

802.11a 5150~5250 MHz

**Test Date** :2018-09-28 **Operation Band** :802.11aB1

**Fundamental Frequency** Temp./Humi. :23 deg\_C / 62 RH :5220 MHz

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	dΒμ̈V	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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台灣檢驗科技股份有限公司

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**Operation Band Fundamental Frequency Operation Mode** 

EUT Pol.

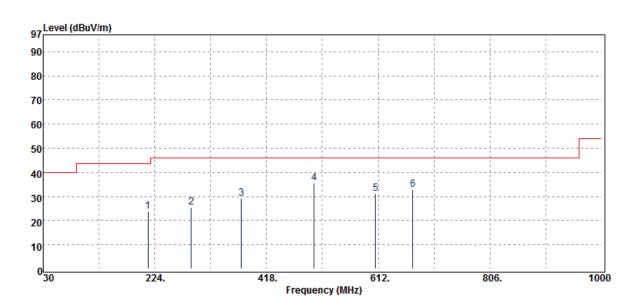
:802.11aB1 :5220 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/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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:23 deg\_C / 62 RH

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#### 802.11a 5250~5350 MHz

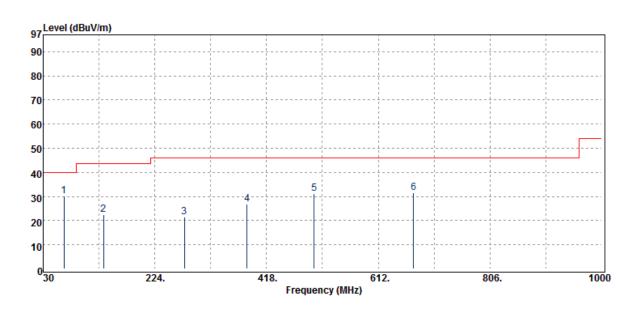
**Operation Band** :802.11aB2 Fundamental Frequency :5300 MHz

**Operation Mode** :Tx CH MID Engineer :Wei

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL

**Test Date** 

Temp./Humi.



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency Operation Mode** 

EUT Pol.

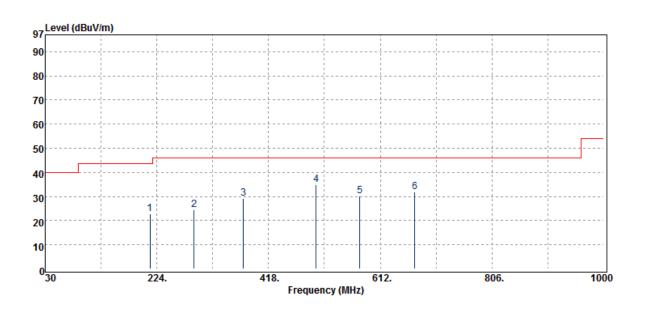
:802.11aB2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

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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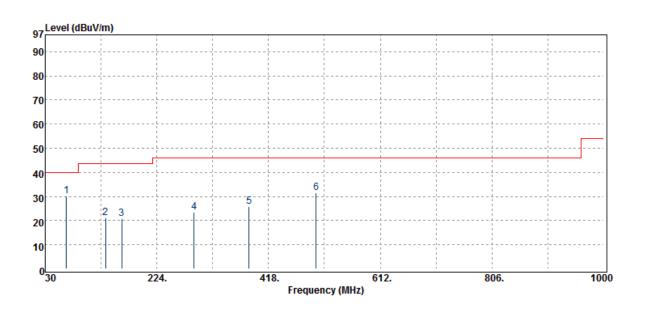
#### 802.11a, 5470~5725 MHz

**Operation Band** :802.11aB3 **Test Date** 

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 Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/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.

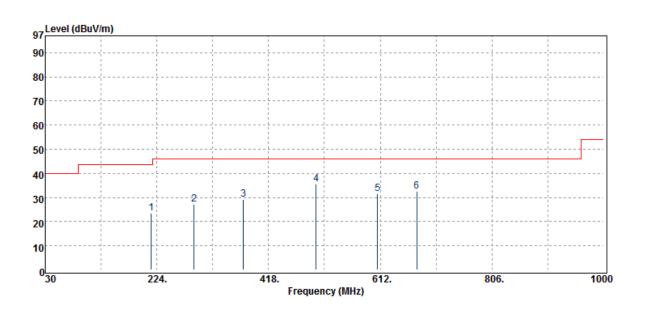
:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

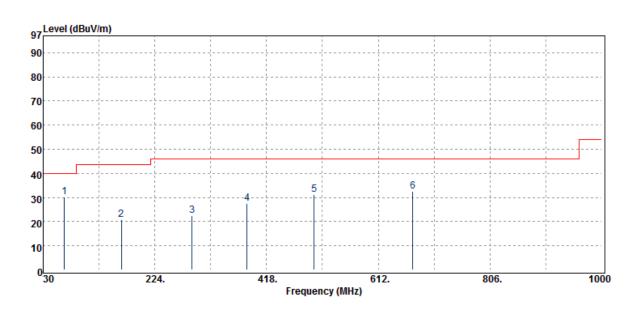
**Operation Band** :802.11aB4

Fundamental Frequency :5785 MHz Temp./Humi. :23 deg\_C / 62 RH

**Test Date** 

**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
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.

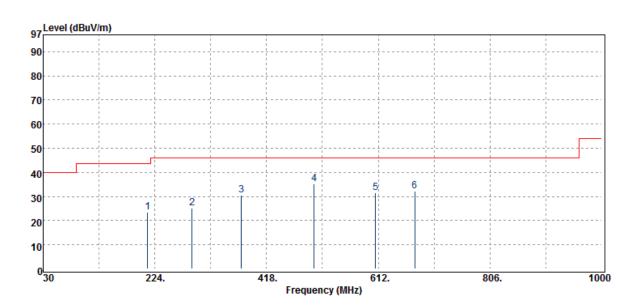
:802.11aB4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m 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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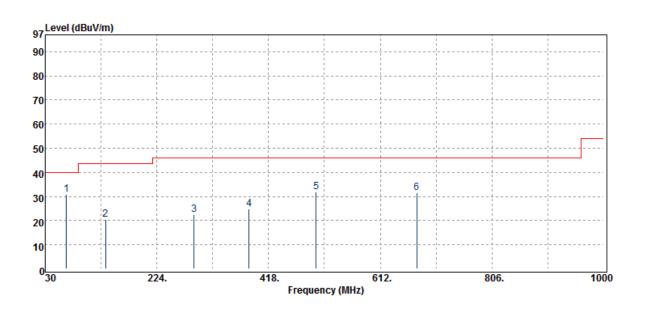
#### 802.11ac VHT80, 5150~5250 MHz

**Operation Band** :802.11ac80B1 **Test Date** :2018-09-28

Fundamental Frequency :5210 MHz Temp./Humi. :23 deg\_C / 62 RH

Operation Mode :Tx CH LOW 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	dΒμV	dB	dBµV/m	dΒμV/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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

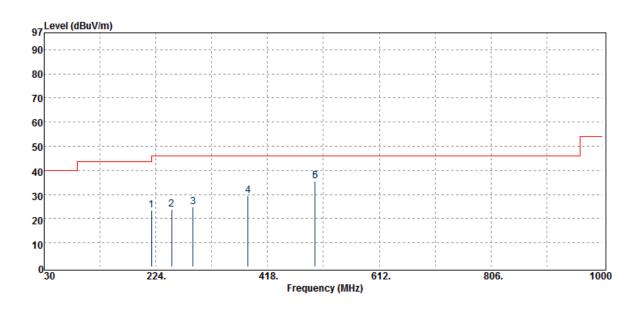
:802.11ac80B1 :5210 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dΒμV/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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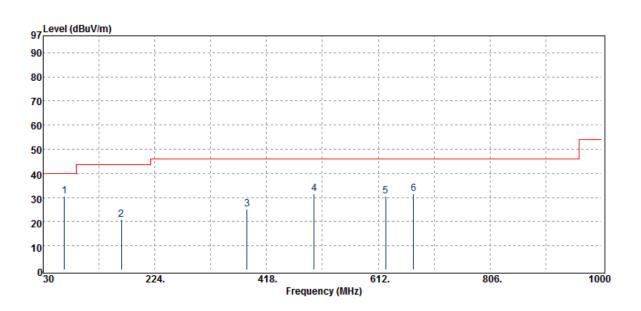
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#### 802.11ac VHT80, 5250~5350 MHz

**Operation Band** :802.11ac80B2 **Test Date** :2018-09-28

Fundamental Frequency :5290 MHz Temp./Humi. :23 deg\_C / 62 RH Operation Mode :Tx CH HIGH :Wei

Engineer 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	dΒμV/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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

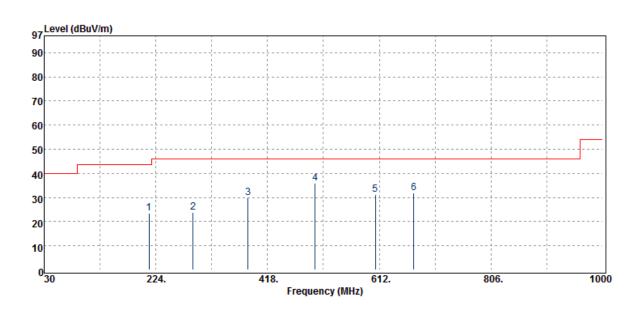
:802.11ac80B2 :5290 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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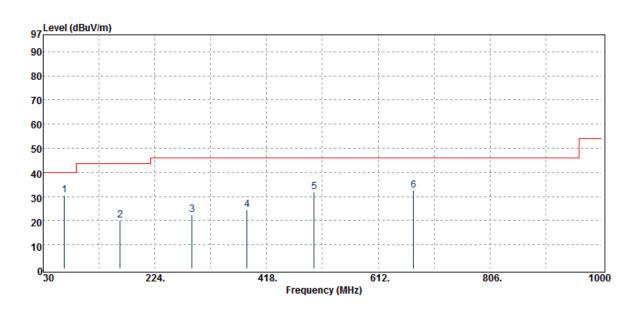
#### 802.11ac VHT80, 5470~5725 MHz

**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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

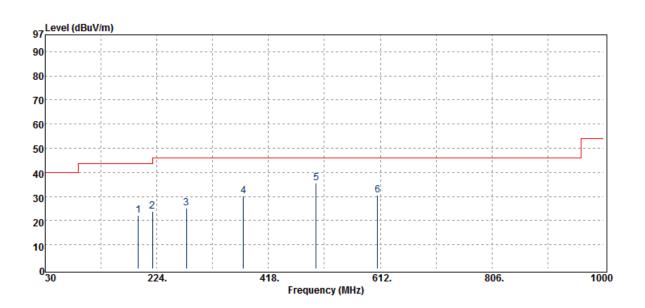
:802.11ac80B3 :5530 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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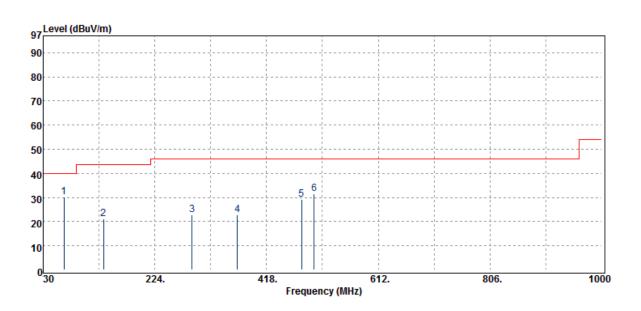
### 802.11ac VHT80, 5725~5850 MHz

**Operation Band** :802.11ac80B4 **Test Date** :2018-09-28

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. :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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

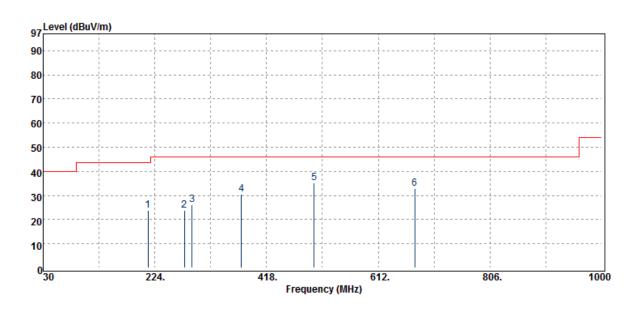
:802.11ac80B4 :5775 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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

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

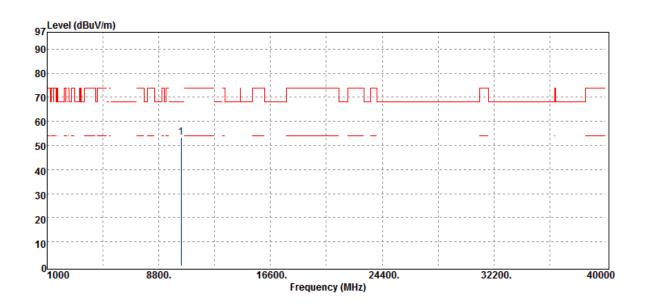
External Antenna (Type: Dipole antenna, Model No.: R380500314)

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

**Operation Band** Test Date :802.11aB1 :2018-09-20

**Fundamental Frequency** :5180 MHz Temp./Humi. :23 deg C / 62 RH :Tx CH LOW

Operation Mode 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	dΒμV	dB	dBμV/m	dBμV/m	dB	_
10360.00	Peak	33.76	19.71	53.47	68.20	-14.73	

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**Operation Band Fundamental Frequency** Operation Mode

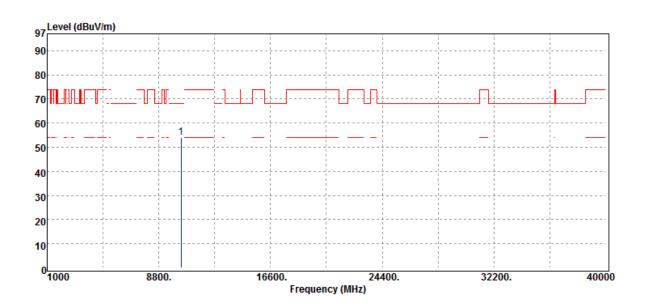
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m	_	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB	
	10360.00	Peak	34.28	19.71	53.99	68.20	-14.21	_

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**Operation Band Fundamental Frequency Operation Mode** 

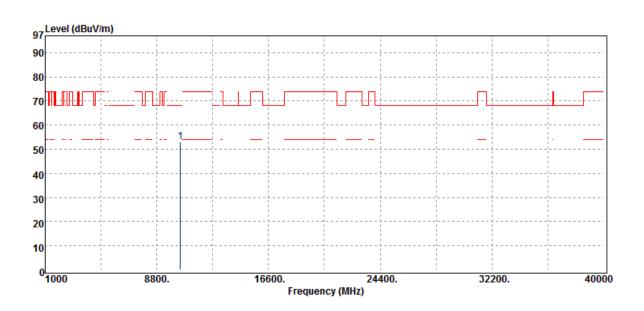
EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10440.00	Peak	33.11	20.05	53.16	68.20	-15.04

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**Operation Band Fundamental Frequency Operation Mode** 

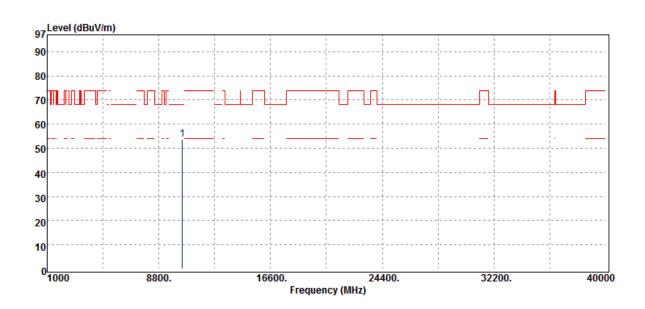
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m		
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
	10440.00	Peak	33.77	20.05	53.82	68.20	-14.38	

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency** Operation Mode

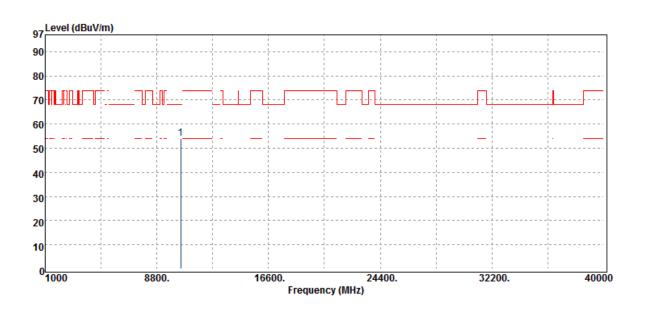
EUT Pol.

:802.11aB1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	_	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
	10480.00	Peak	33.98	20.07	54.05	68.20	-14.15	

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**Operation Band Fundamental Frequency** Operation Mode

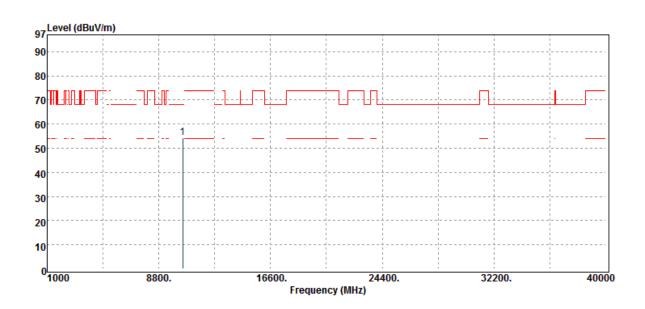
EUT Pol.

:802.11aB1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
 MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
10480.00	Peak	34.37	20.07	54.44	68.20	-13.76	

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**Operation Mode** 

Report No.: ER/2018/90026

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

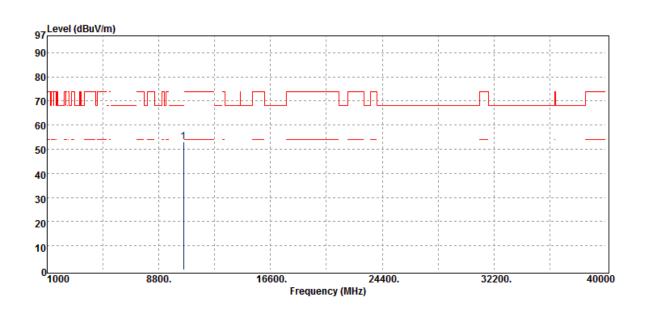
:Tx CH LOW

**Operation Band** :802.11aB2 **Test Date** :2018-09-20

Fundamental Frequency :5260 MHz Temp./Humi. :23 deg\_C / 62 RH :Wei

Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



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

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

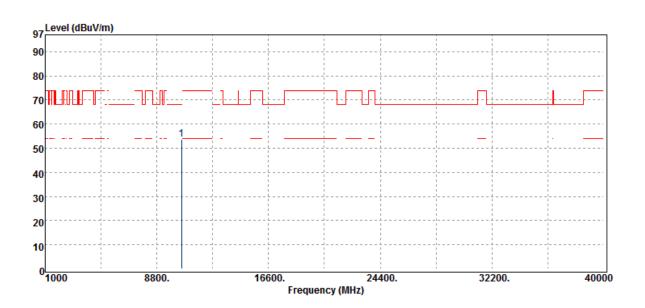
EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dΒμV/m	dB	
10520.0	0 Peak	33.68	20.00	53.68	68.20	-14.52	

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**Operation Band Fundamental Frequency Operation Mode** 

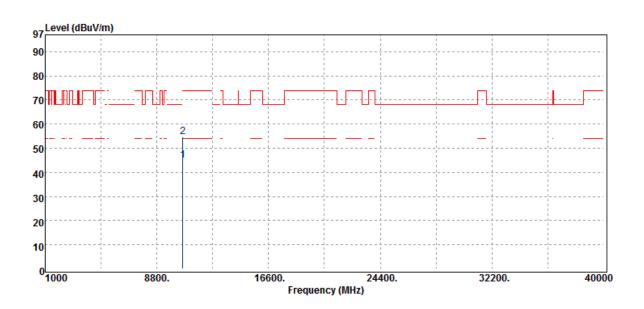
EUT Pol.

:802.11aB2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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

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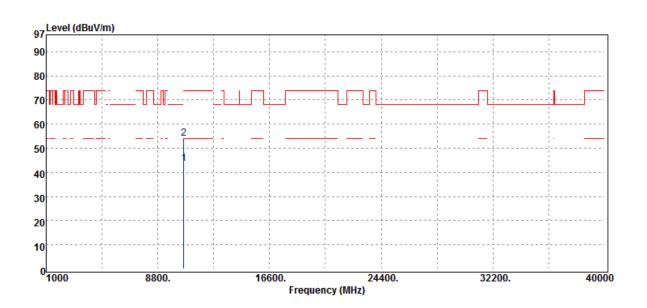
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode

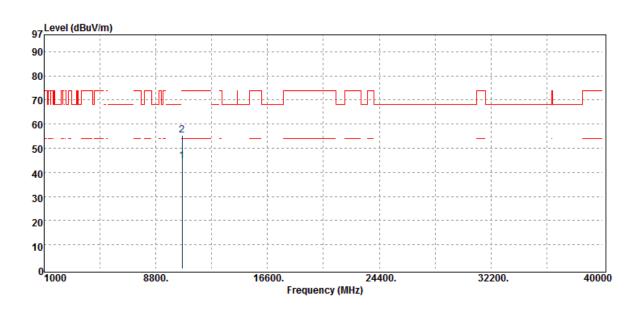
EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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

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**Operation Band Fundamental Frequency** Operation Mode

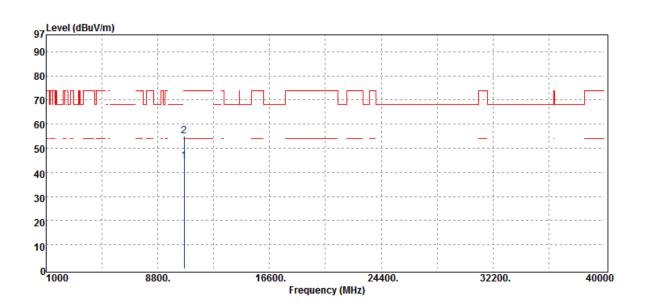
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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**Operation Mode** 

Report No.: ER/2018/90026

:Wei

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

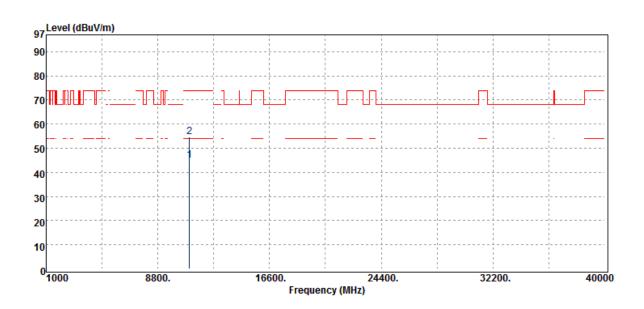
:Tx CH LOW

**Operation Band** :802.11aB3 **Test Date** :2018-09-20

Fundamental Frequency :5500 MHz Temp./Humi. :23 deg\_C / 62 RH

Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

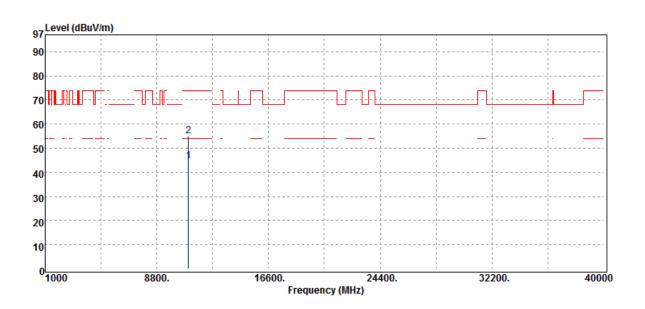
:802.11aB3 :5500 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

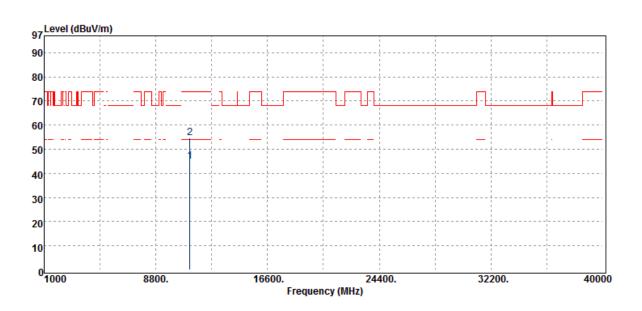
EUT Pol.

:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.

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**Operation Band Fundamental Frequency Operation Mode** 

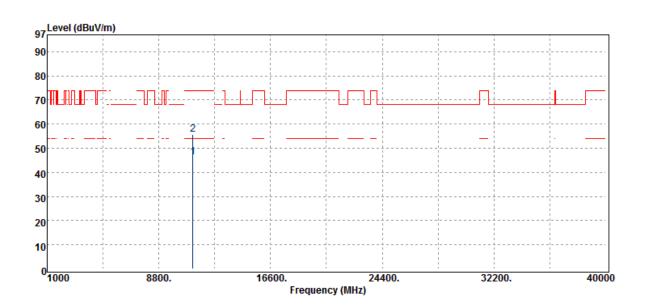
EUT Pol.

:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.

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**Operation Band Fundamental Frequency** Operation Mode

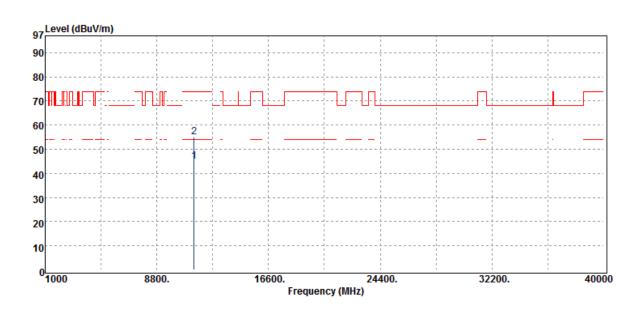
EUT Pol.

:802.11aB3 :5700 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

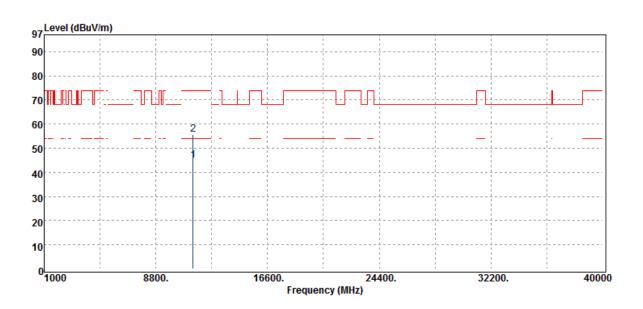
:802.11aB3 :5700 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



**Operation Mode** 

Report No.: ER/2018/90026

:Wei

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

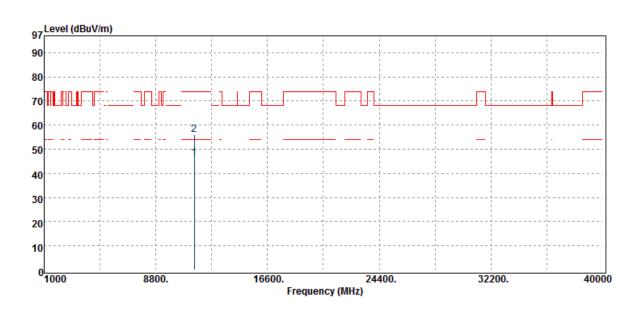
:Tx CH LOW

**Operation Band** :802.11aB4 **Test Date** :2018-09-20

Fundamental Frequency :5745 MHz Temp./Humi. :23 deg\_C / 62 RH

Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode

EUT Pol.

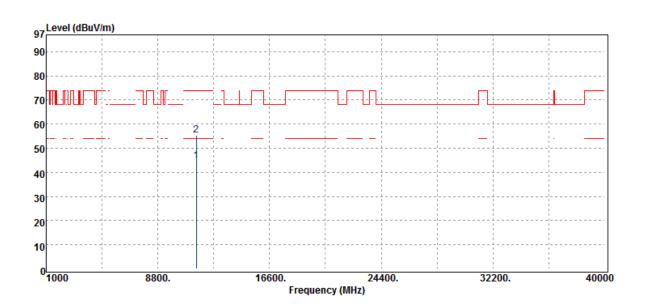
:802.11aB4 :5745 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



:2018-09-20

:23 deg\_C / 62 RH

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**Operation Band Fundamental Frequency Operation Mode** 

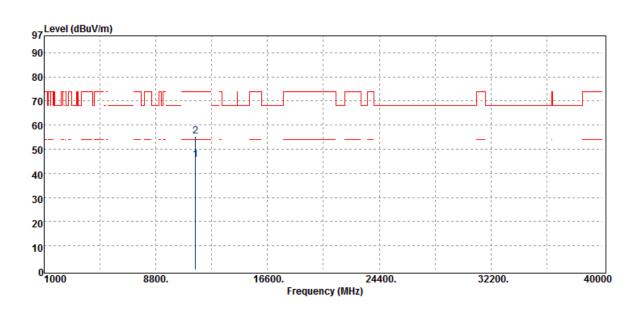
EUT Pol.

:802.11aB4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi.

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

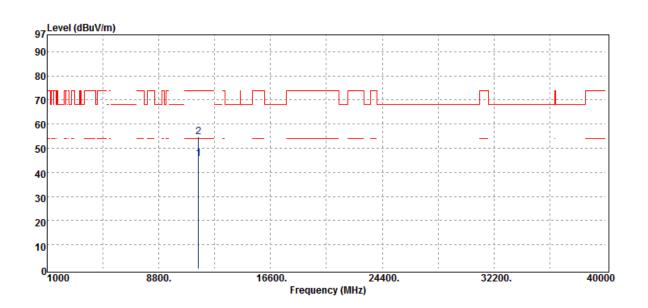
EUT Pol.

:802.11aB4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency** Operation Mode

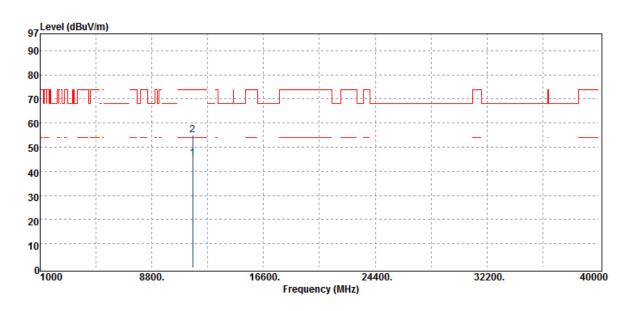
EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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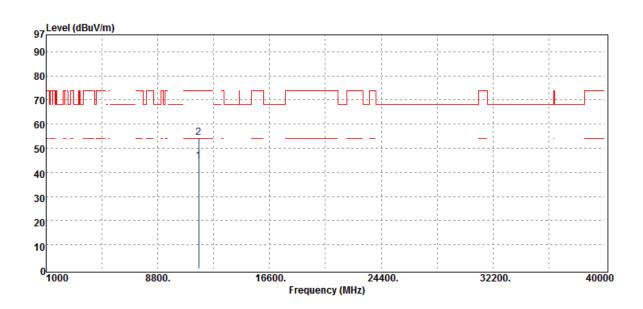
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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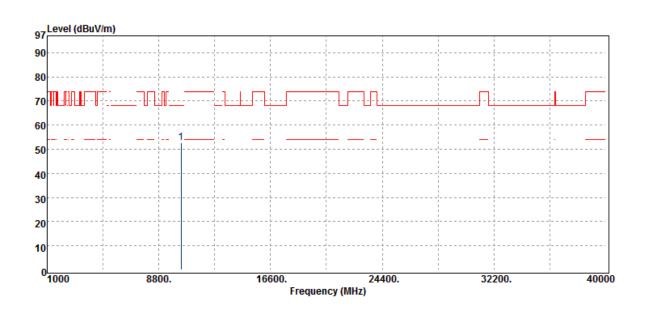
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	_	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

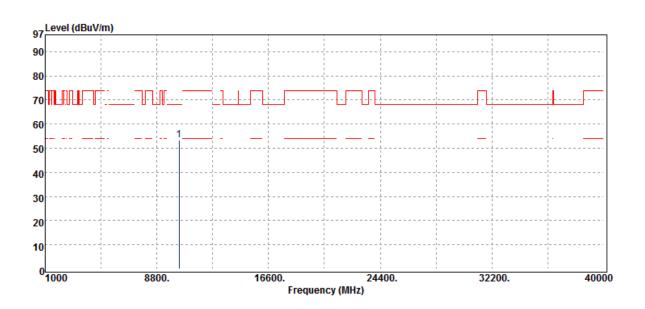
:802.11n20B1 :5180 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	-	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
10360.00	Peak	33.77	19.71	53.48	68.20	-14.72	_

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

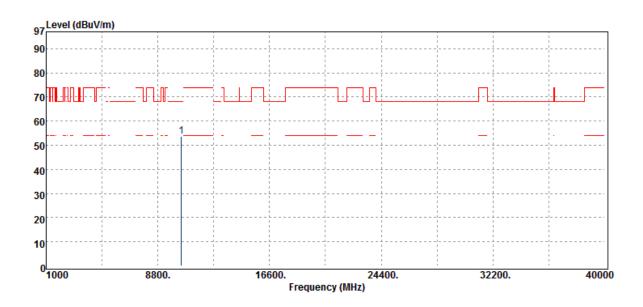
EUT Pol.

:802.11n20B1 :5220 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei Measurement Antenna Pol.

:VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10440.00	Peak	33.74	20.05	53.79	68.20	-14.41

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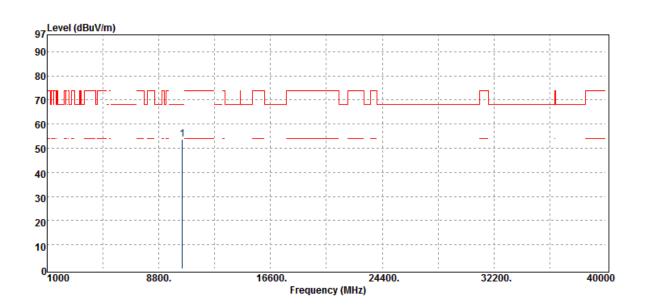
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B1 :5220 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10440.00	Peak	33.58	20.05	53.63	68.20	-14.57

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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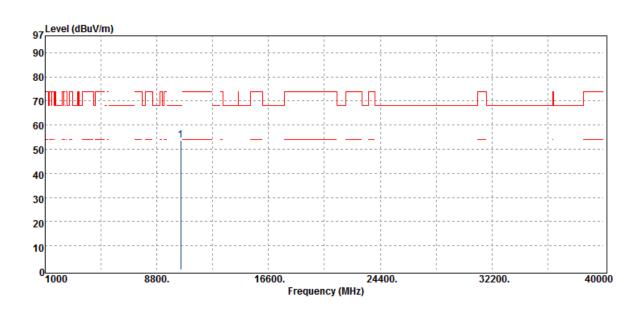
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n20B1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10480.00	Peak	33.69	20.07	53.76	68.20	-14.44

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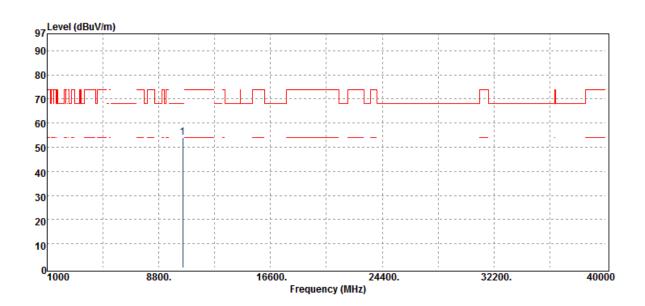
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n20B1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
	10480.00	Peak	34.08	20.07	54.15	68.20	-14.05	_

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



**Operation Mode** 

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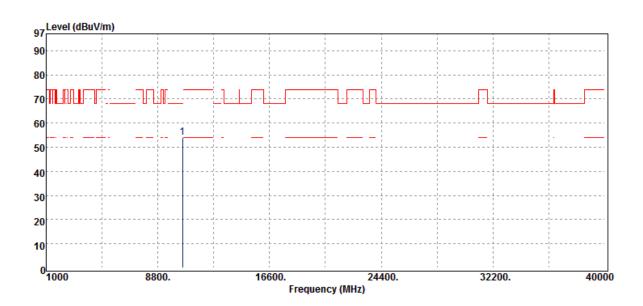
# Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

**Operation Band** :802.11n20B2 **Test Date** :2018-09-20

Fundamental Frequency :5260 MHz Temp./Humi. :23 deg\_C / 62 RH :Wei

Engineer

:Tx CH LOW EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
_	10520.00	Paak	33 04	20.00	53.0/	68.20	-14.26

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

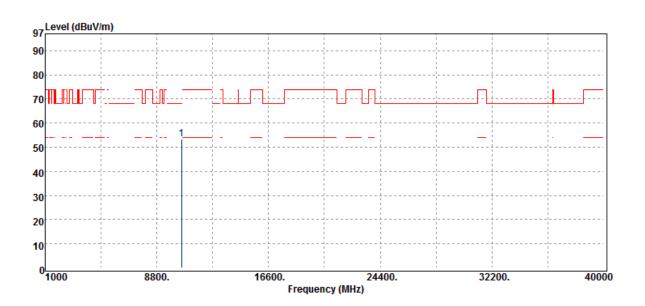
:802.11n20B2 :5260 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 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

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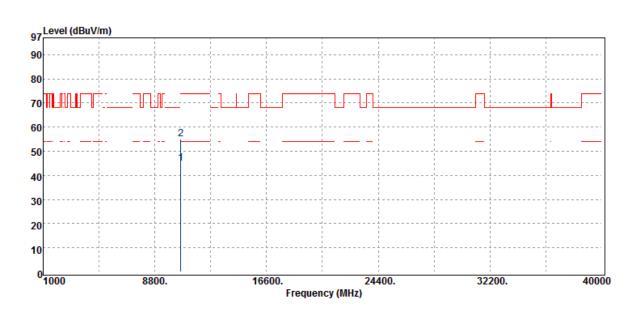
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

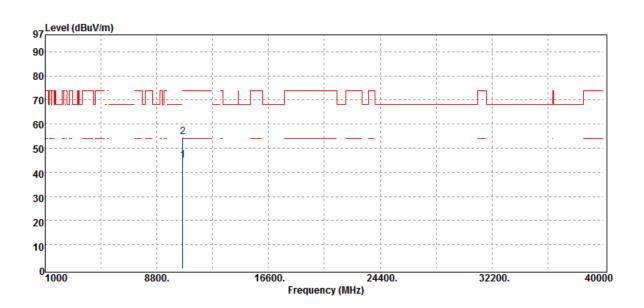
:802.11n20B2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

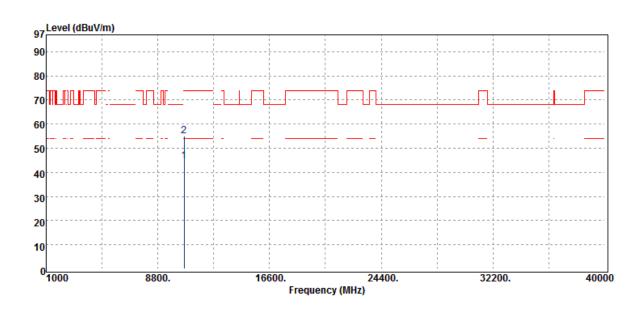
:802.11n20B2 :5320 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi.

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

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	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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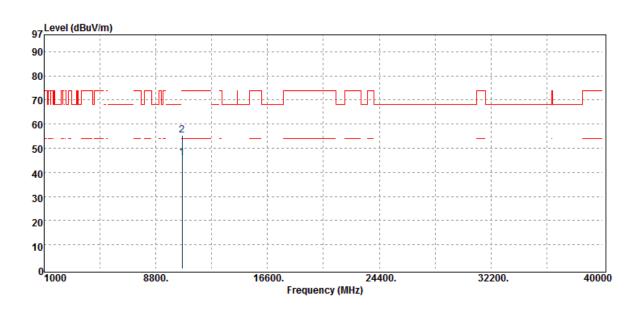
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n20B2 :5320 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	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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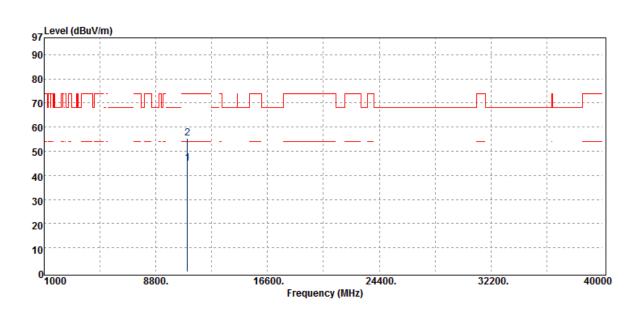
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band :802.11n20B3 Test Date :2018-09-20

Fundamental Frequency :5500 MHz Temp./Humi. :23 deg\_C / 62 RH Operation Mode :Tx CH LOW 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	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

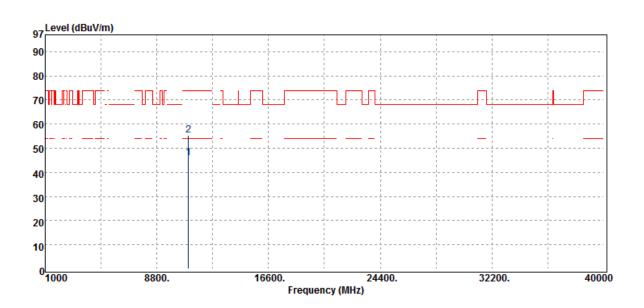
:802.11n20B3 :5500 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

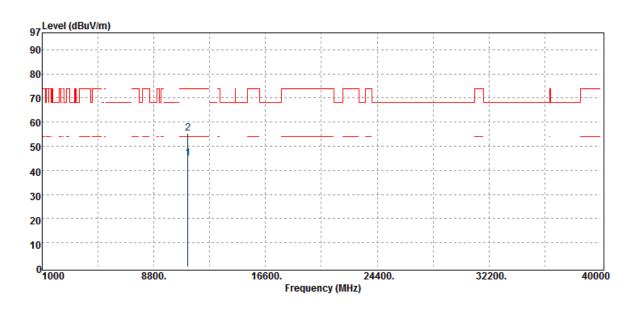
:802.11n20B3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

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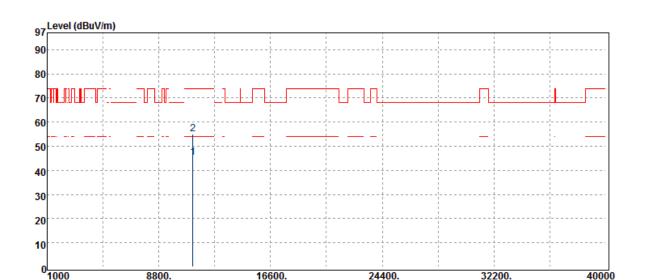
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

Frequency (MHz)

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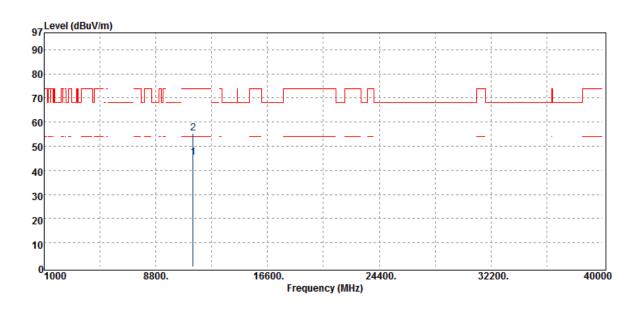
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

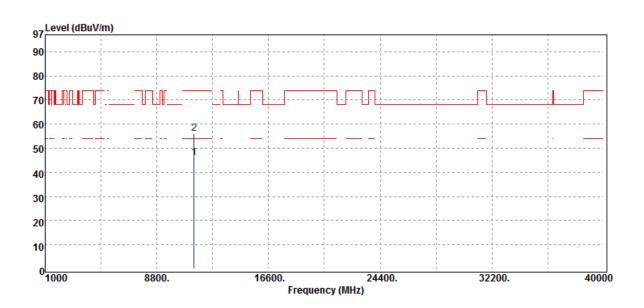
:802.11n20B3 :5700 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

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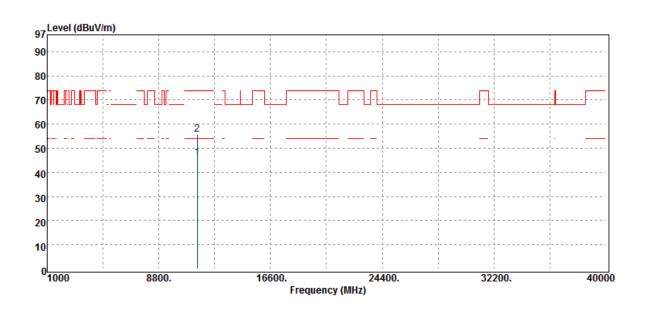
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

**Operation Band** :802.11n20B4 **Test Date** :2018-09-20

Fundamental Frequency :5745 MHz Temp./Humi. :23 deg\_C / 62 RH :Wei **Operation Mode** :Tx CH LOW Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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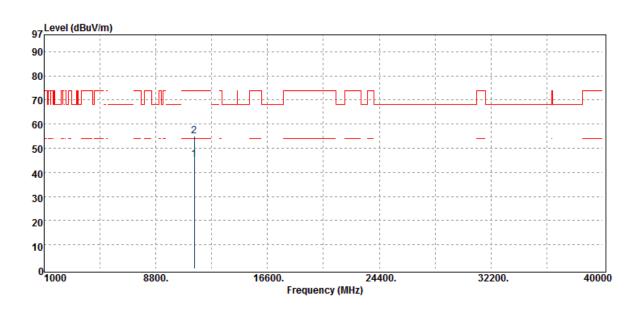
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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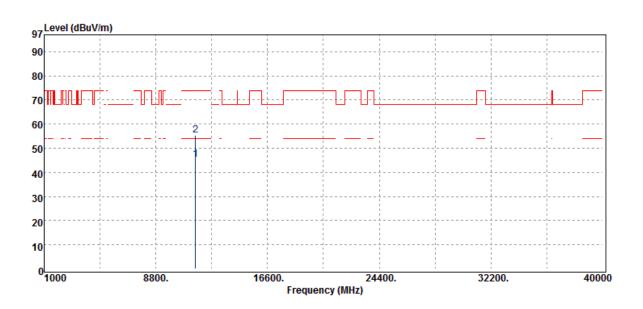
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

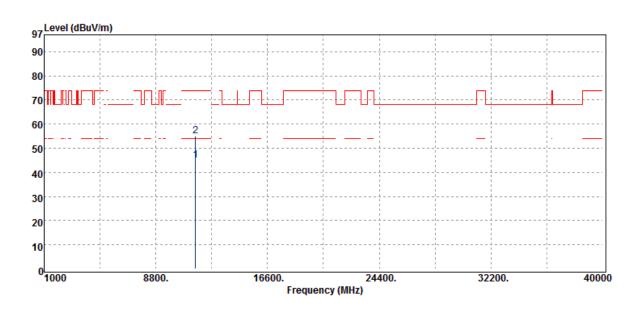
:802.11n20B4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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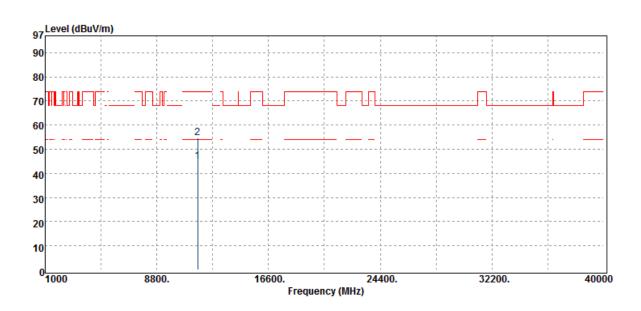
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

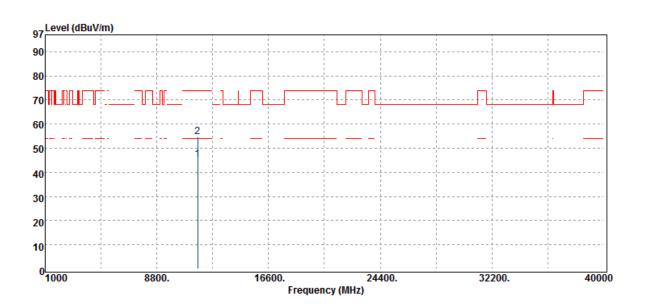
:802.11n20B4 :5825 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



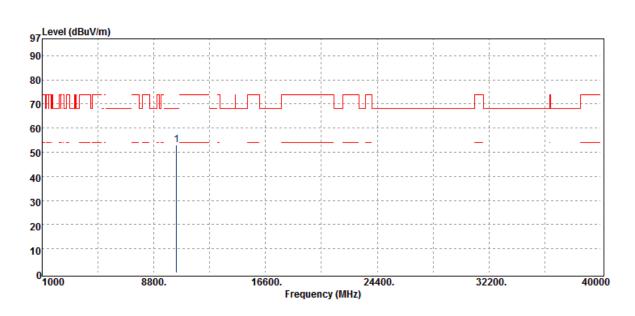
Page: 170 of 385

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

**Operation Band** :802.11n40B1 **Test Date** :2018-09-20

Fundamental Frequency :5190 MHz Temp./Humi. :23 deg\_C / 62 RH :Tx CH LOW

:Wei **Operation Mode** Engineer EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10380 00	Peak	33 33	19 78	53 11	68 20	-15 09

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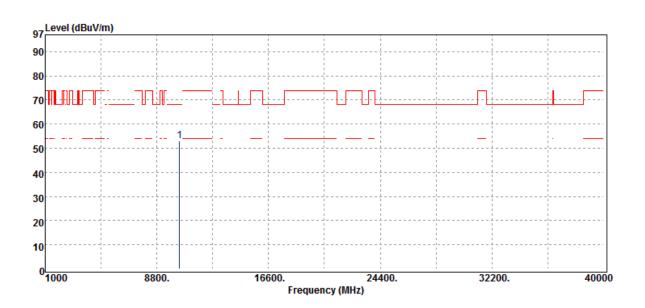
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	@3m		
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB	
10380.0	00 Peak	33.26	19.78	53.04	68.20	-15.16	

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency** Operation Mode

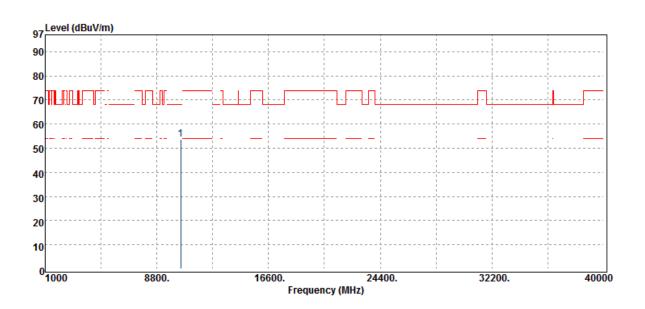
EUT Pol.

:802.11n40B1 :5230 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	-	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	_
10460.00	Peak	33.63	20.07	53.70	68.20	-14.50	

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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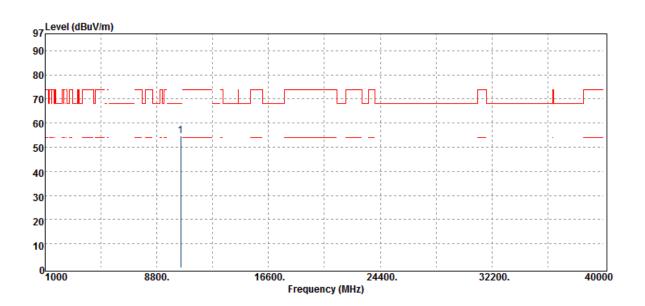
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n40B1 :5230 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	_	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
	10460.00	Peak	34.59	20.07	54.66	68.20	-13.54	

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



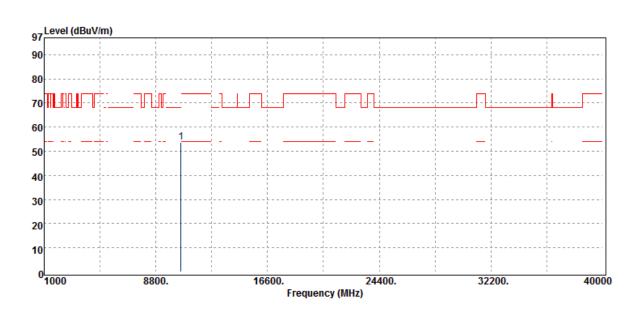
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# Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
-	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
105/0 00	Poak	33 82	20.02	53.84	68.20	-14 36

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

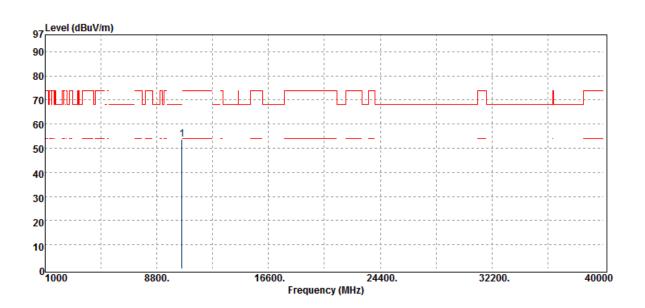
:802.11n40B2 :5270 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10540.00	Peak	33.66	20.02	53.68	68.20	-14.52

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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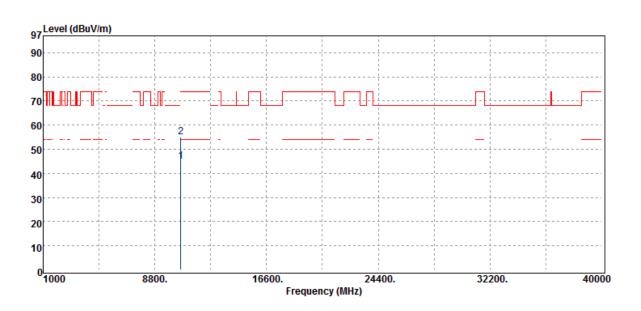
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n40B2 :5310 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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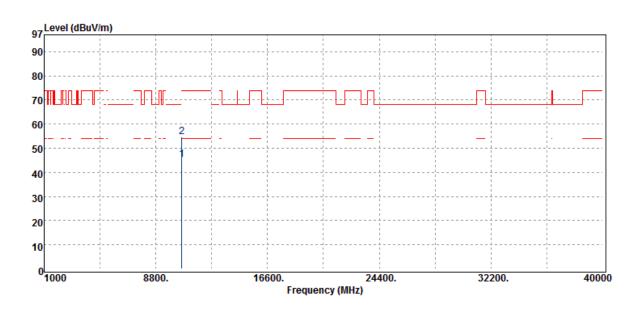
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n40B2 :5310 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



**Operation Mode** 

Report No.: ER/2018/90026

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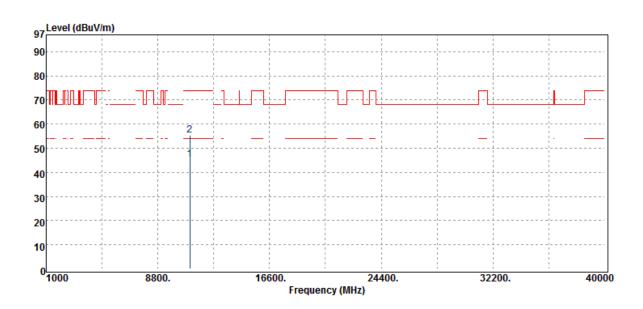
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

**Operation Band** :802.11n40B3 **Test Date** :2018-09-20

Fundamental Frequency :5510 MHz Temp./Humi. :23 deg\_C / 62 RH :Tx CH LOW :Wei

Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

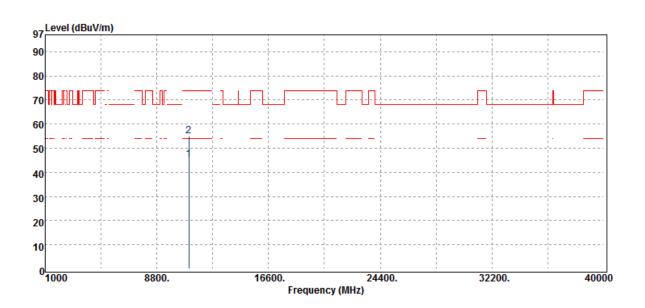
:802.11n40B3 :5510 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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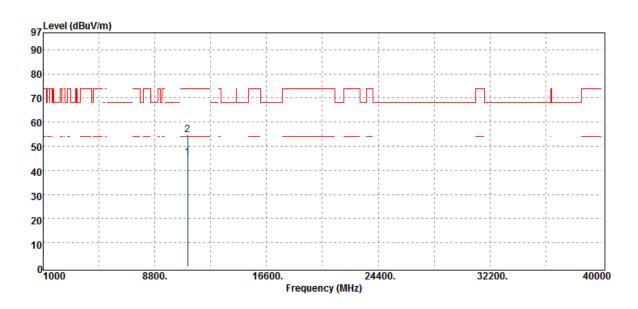
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5550 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

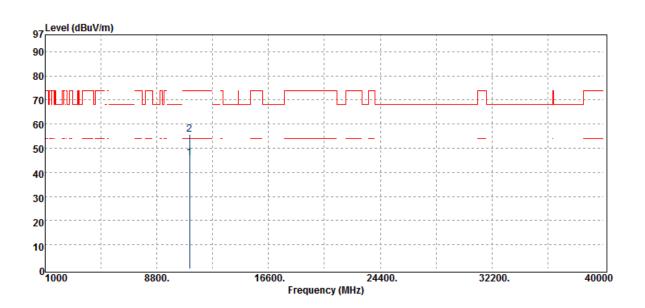
:802.11n40B3 :5550 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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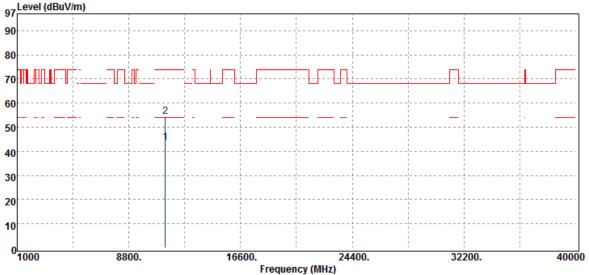
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei Measurement Antenna Pol. :VERTICAL





Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

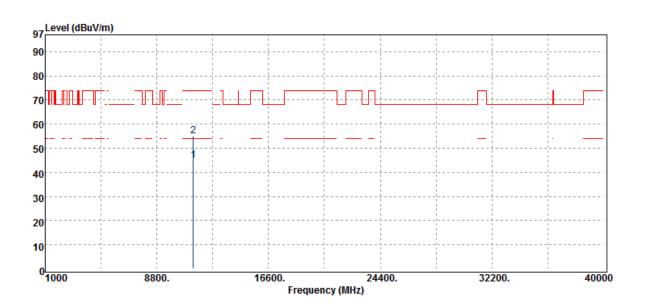
:802.11n40B3 :5670 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

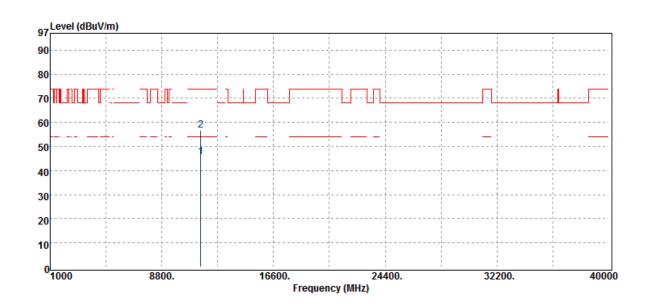
Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. Engineer

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

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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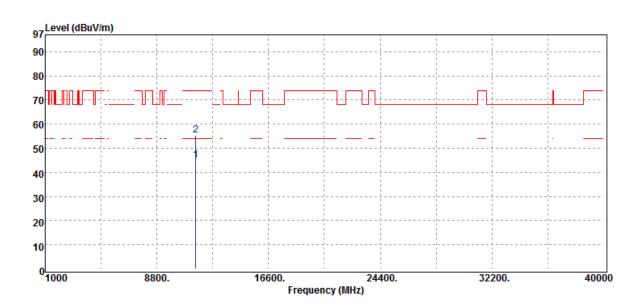
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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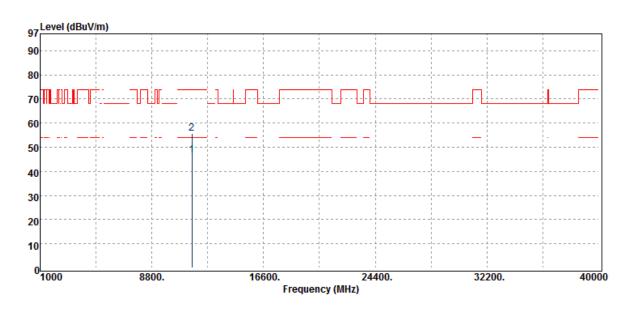
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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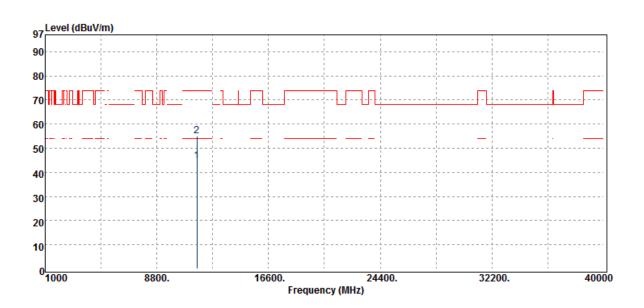
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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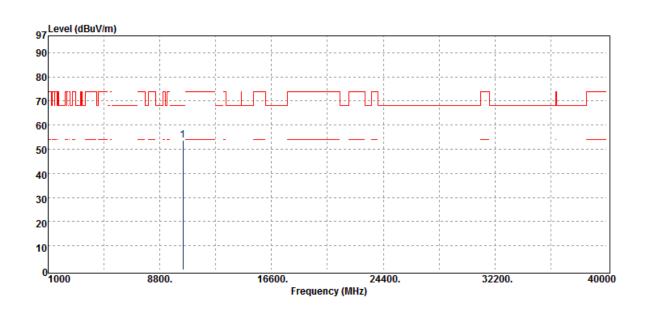
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band :802.11ac80B1 Test Date :2018-09-20

Fundamental Frequency :5210 MHz Temp./Humi. :23 deg\_C / 62 RH Operation Mode :Tx CH LOW 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
10420.0	0 Peak	33.63	19.99	53.62	68.20	-14.58

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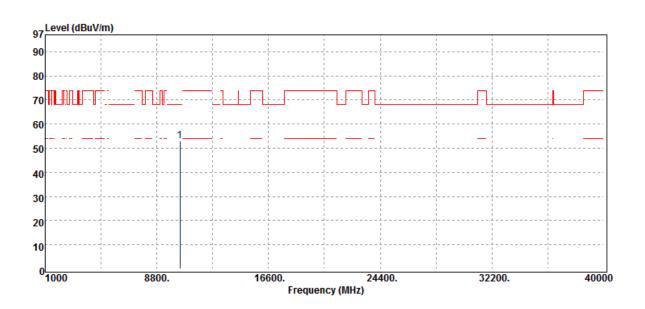
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10420.00	Peak	33.14	19.99	53.13	68.20	-15.07

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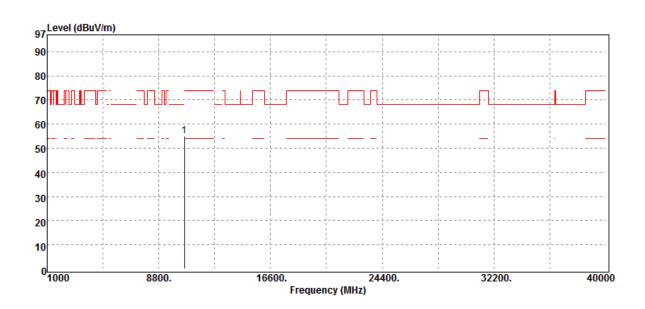
# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

**Operation Band** :802.11ac80B2 **Test Date** :2018-09-20

Fundamental Frequency :5290 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	<b>@</b> 3m	-	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
10580.00	Peak	34.77	20.23	55.00	68.20	-13.20	_

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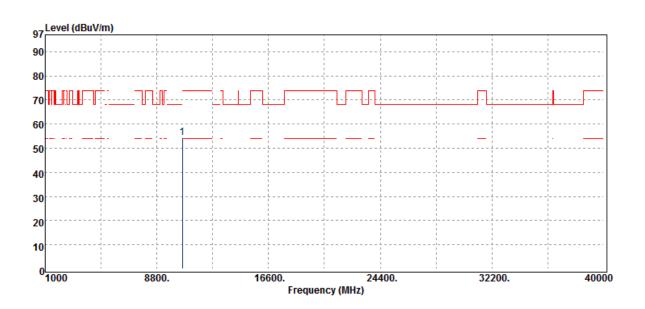
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	-	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
10580.00	Peak	34.03	20.23	54.26	68.20	-13.94	_

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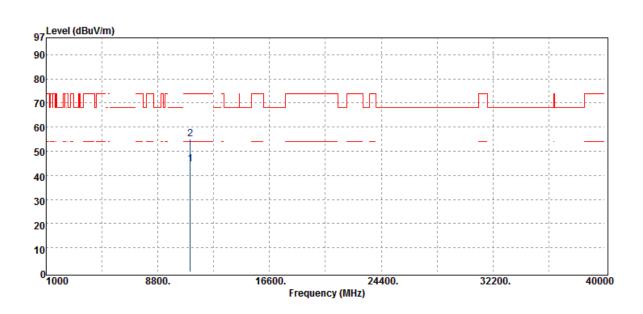
# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band :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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

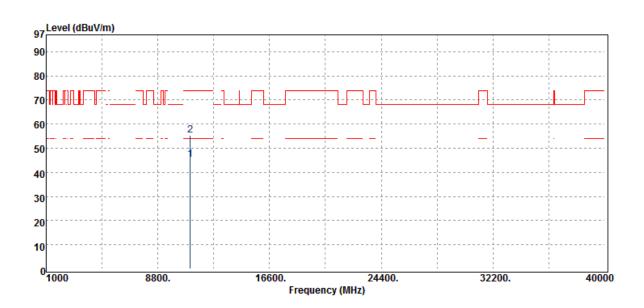
:802.11ac80B3 :5530 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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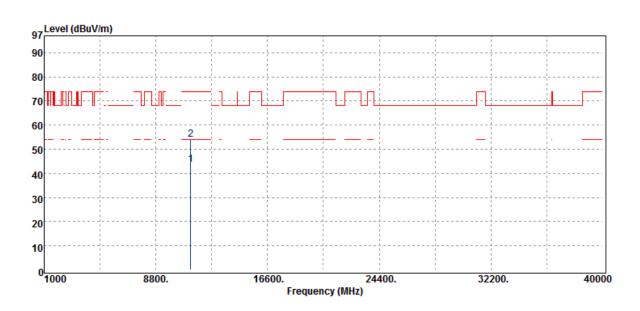
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11ac80B3 :5610 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-20 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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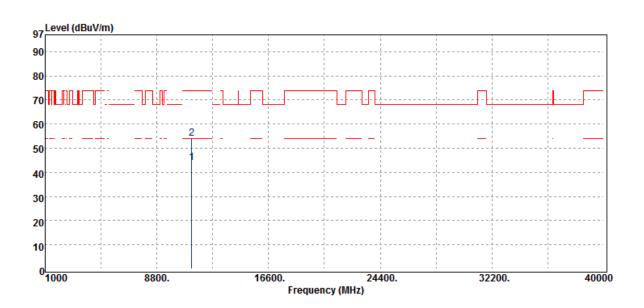
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11ac80B3 :5610 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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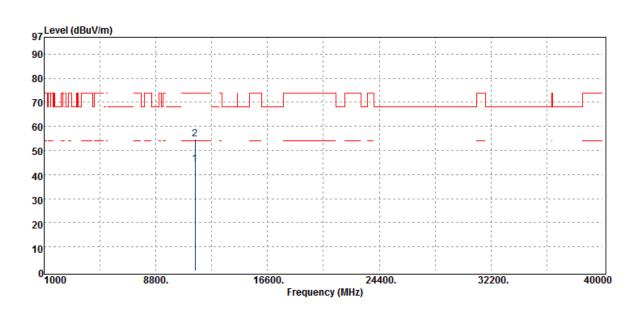
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# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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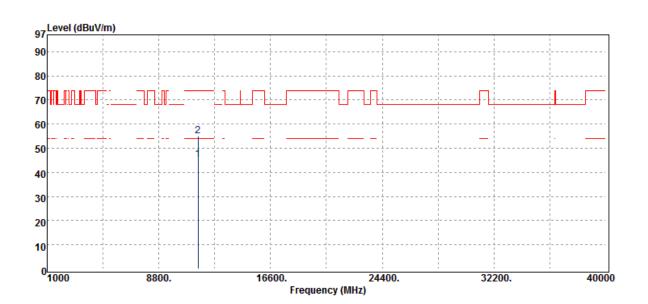
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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-20 :23 deg\_C / 62 RH

:Wei Engineer Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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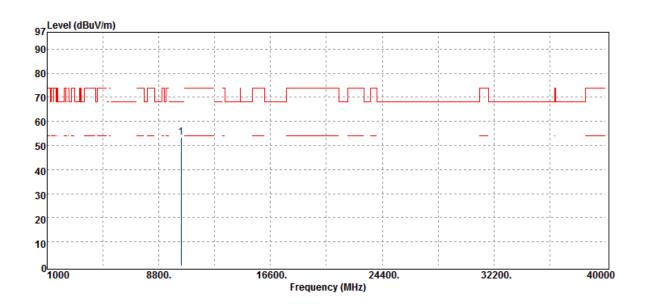
# Internal Antenna (Type: Printed antenna, Model no: N/A)

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

:2018-09-28 **Operation Band** :802.11aB1 **Test Date** 

**Fundamental Frequency** :23 deg\_C / 62 RH :5180 MHz Temp./Humi. Operation Mode :Tx CH LOW 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	dΒμV	dB	dBµV/m	dBµV/m	dB
-	10360.00	Peak	33.72	19.71	53.43	68.20	-14.77

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**Operation Band Fundamental Frequency** Operation Mode

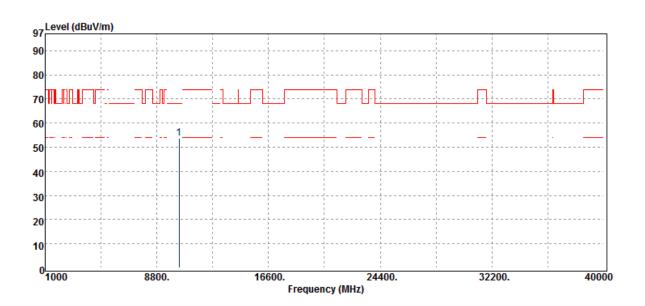
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	-	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
10360.00	Peak	34.12	19.71	53.83	68.20	-14.37	_

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**Operation Band Fundamental Frequency Operation Mode** 

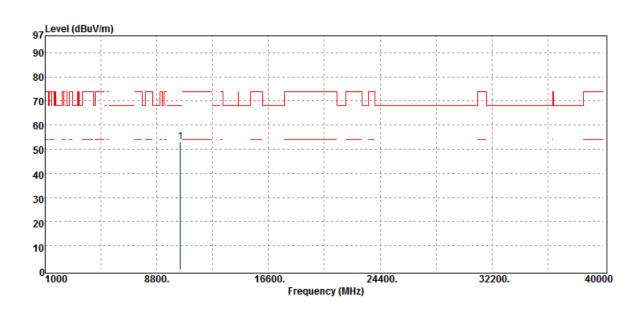
EUT Pol.

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

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10440.00	Peak	32.89	20.05	52.94	68.20	-15.26

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

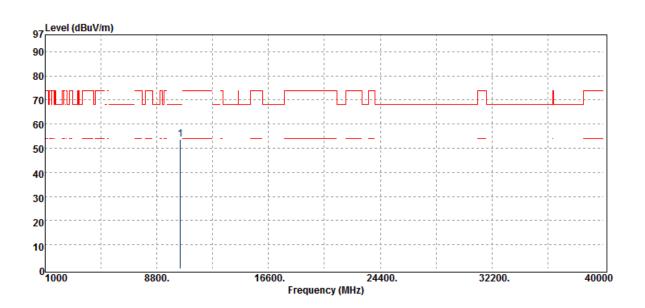
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	-	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
10440.00	Peak	33.56	20.05	53.61	68.20	-14.59	_

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

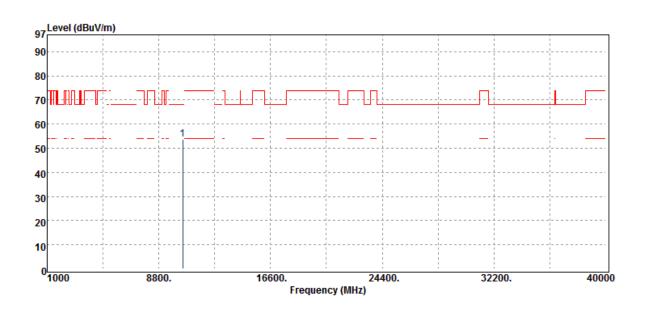
EUT Pol.

:802.11aB1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	-	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
	10480.00	Peak	33.49	20.07	53.56	68.20	-14.64	_

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**Operation Band Fundamental Frequency** Operation Mode

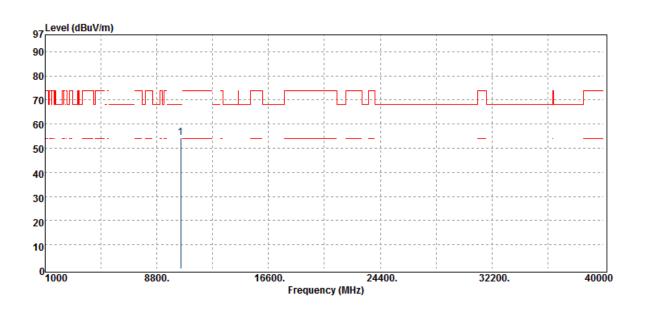
EUT Pol.

:802.11aB1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
 MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10480.00	Peak	34.21	20.07	54.28	68.20	-13.92

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



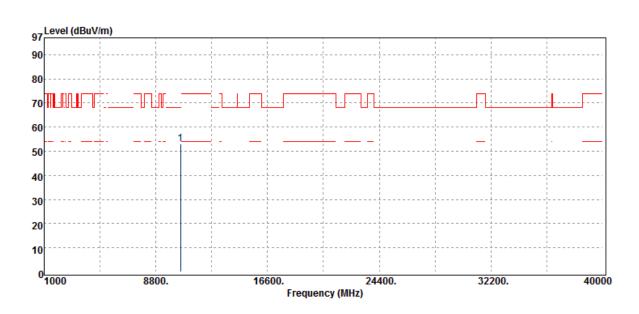
Page: 204 of 385

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

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
10520.00	Peak	33.02	20.00	53.02	68 20	-15 18

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**Operation Band Fundamental Frequency** Operation Mode

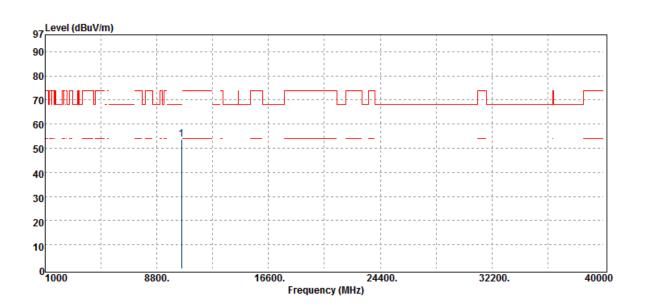
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency** 

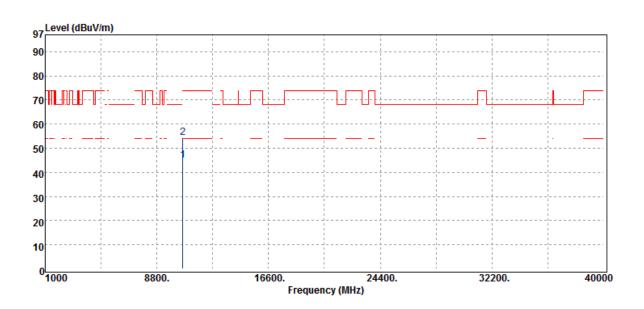
**Operation Mode** EUT Pol.

:802.11aB2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10600.00	Average	24.55	20.38	44.93	54.00	-9.07
10600.00	Peak	34.02	20.38	54.40	74.00	-19.60

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

EUT Pol.

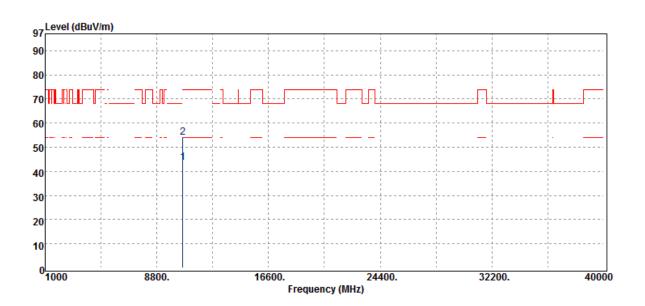
:802.11aB2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode

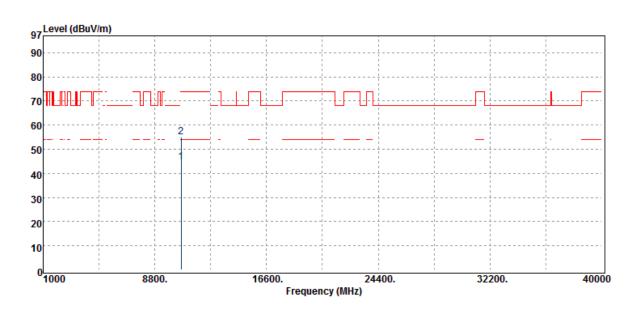
EUT Pol.

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

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode

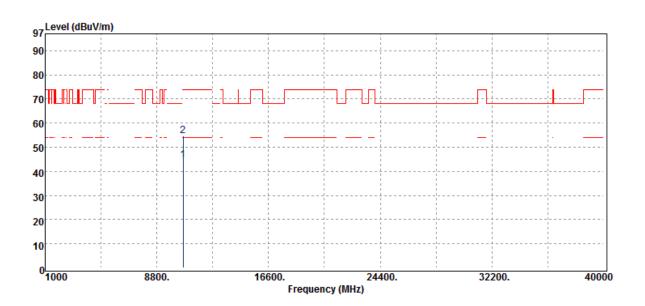
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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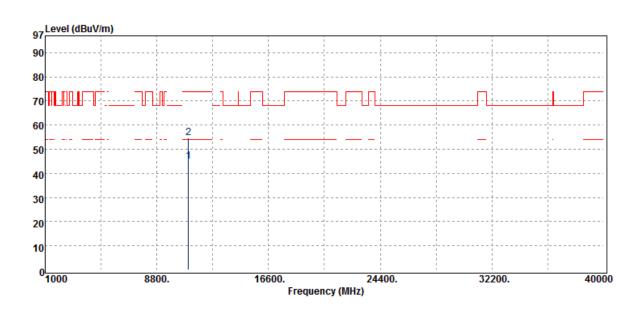
# Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

**Operation Band** :802.11aB3 **Test Date** :2018-09-28

Fundamental Frequency :5500 MHz Temp./Humi. :23 deg\_C / 62 RH

:Wei **Operation Mode** :Tx CH LOW Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

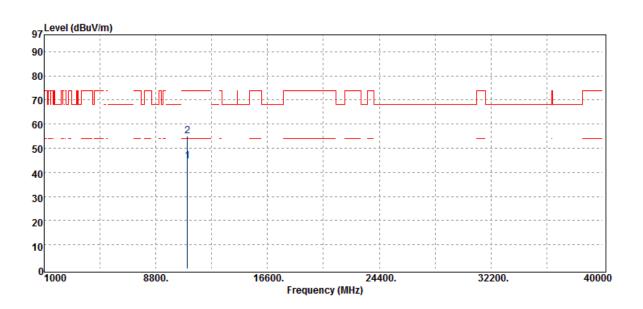
:802.11aB3 :5500 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** 

**Operation Mode** 

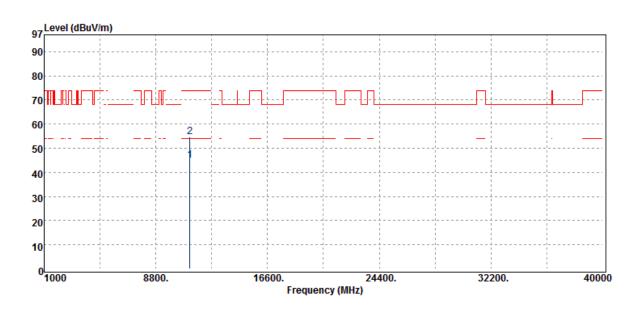
EUT Pol.

:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency Operation Mode** 

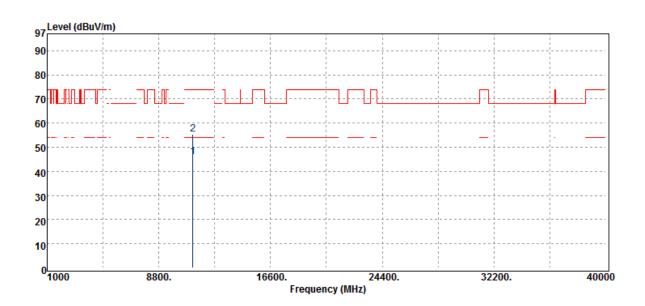
EUT Pol.

:802.11aB3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode

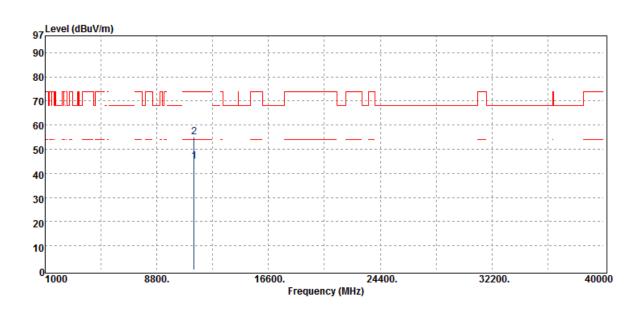
EUT Pol.

:802.11aB3 :5700 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

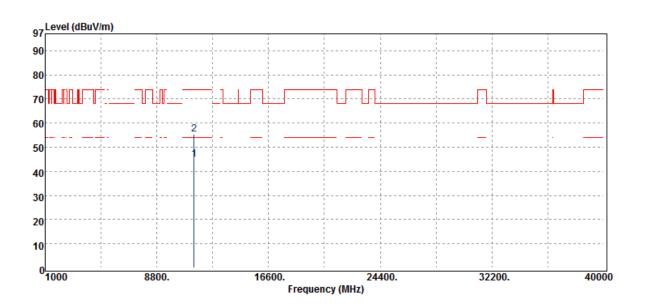
:802.11aB3 :5700 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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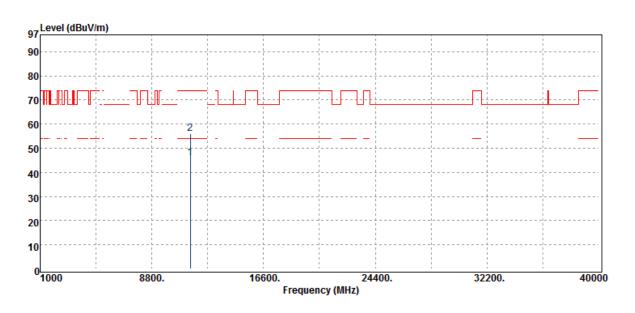
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# Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

**Operation Band** :802.11aB4 **Test Date** :2018-10-01

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

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**Operation Band Fundamental Frequency** Operation Mode

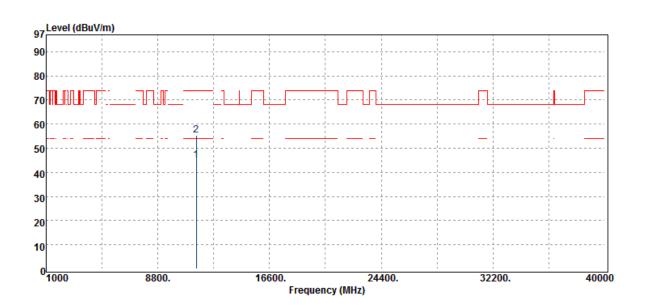
EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

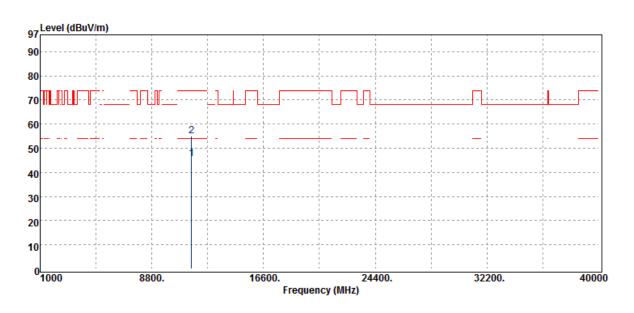
EUT Pol.

:802.11aB4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



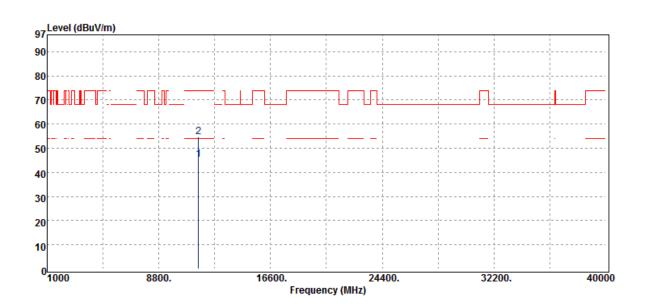
Page: 219 of 385

**Operation Band Fundamental Frequency Operation Mode** 

:802.11aB4 :5785 MHz :Tx CH MID **Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode

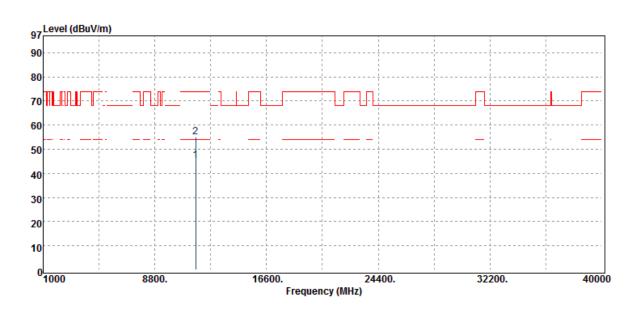
EUT Pol.

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

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Average	23.59	21.60	45.19	54.00	-8.81
11650.00	Peak	33.45	21.60	55.05	74.00	-18.95

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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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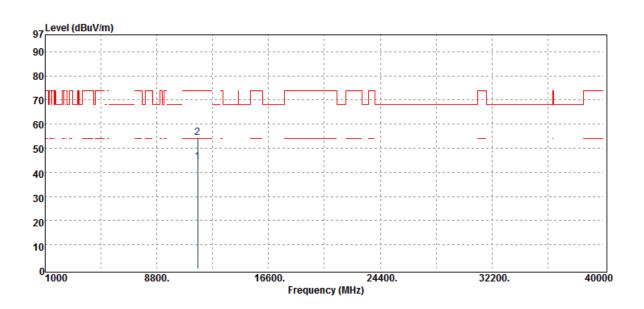
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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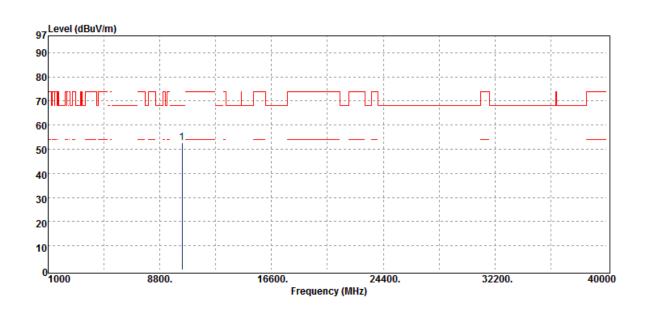
Page: 222 of 385

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

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. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m	-	
_	MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

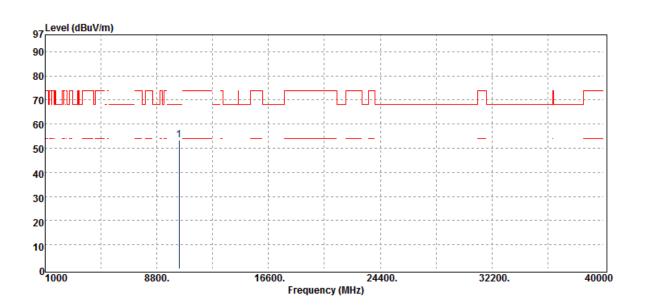
:802.11n20B1 :5180 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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**Operation Band Fundamental Frequency Operation Mode** 

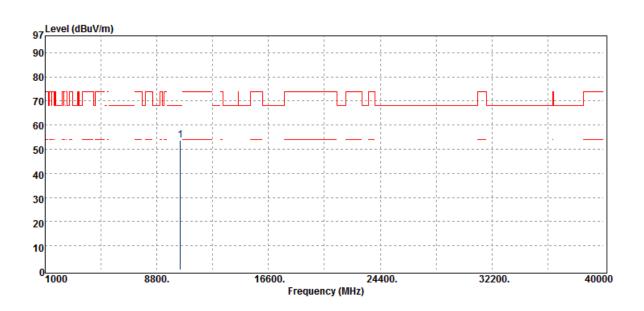
EUT Pol.

:802.11n20B1 :5220 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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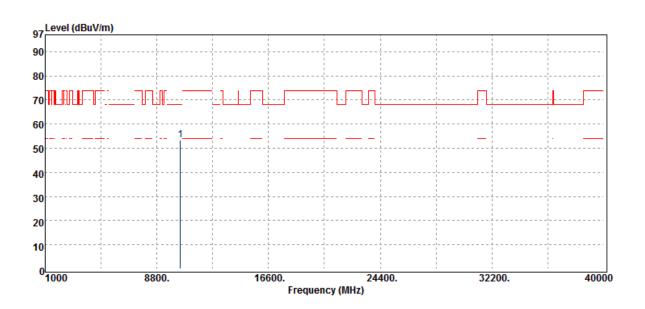
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B1 :5220 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m		
 MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB	
10440.00	Peak	33.48	20.05	53.53	68.20	-14.67	

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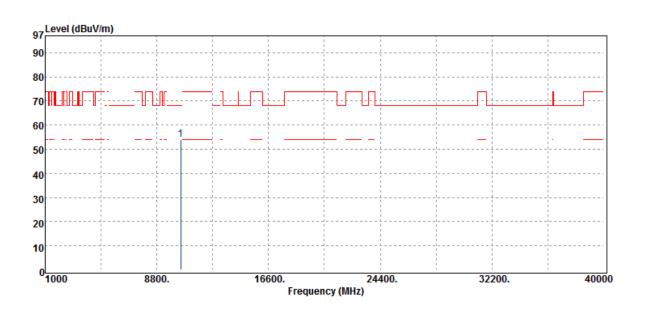
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n20B1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
	10480.00	Peak	33.87	20.07	53.94	68.20	-14.26	

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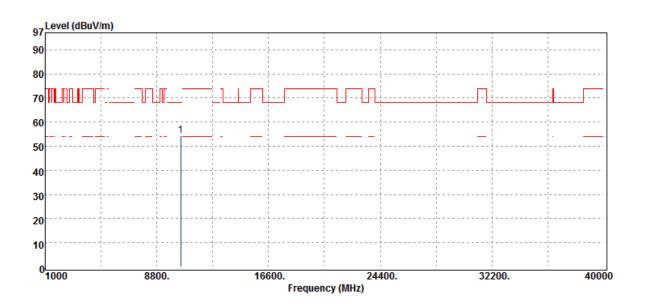
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n20B1 :5240 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	_	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
	10480.00	Peak	34.27	20.07	54.34	68.20	-13.86	

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**Operation Mode** 

Report No.: ER/2018/90026

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

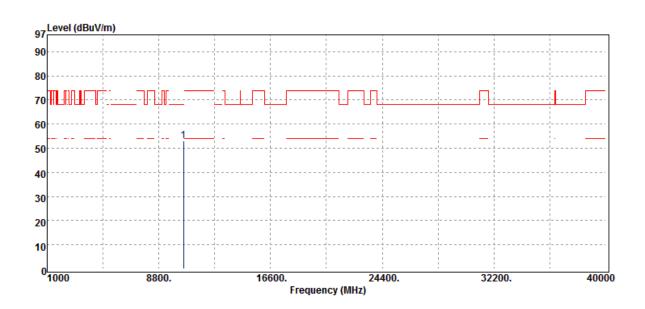
:Tx CH LOW

**Operation Band** :802.11n20B2 **Test Date** :2018-09-28

Fundamental Frequency :5260 MHz Temp./Humi. :23 deg\_C / 62 RH :Wei

Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	-	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
_	10520.00	Peak	33.17	20.00	53.17	68.20	-15.03	_

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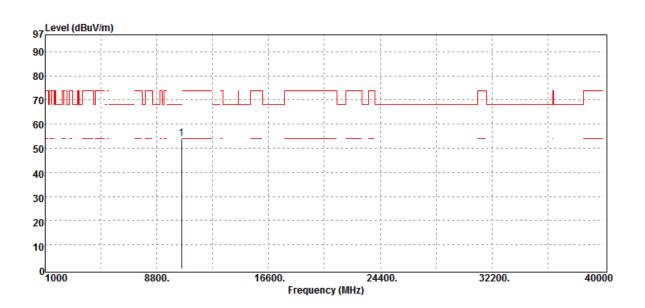
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	-	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
_	10520.00	Peak	33.97	20.00	53.97	68.20	-14.23	_

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.

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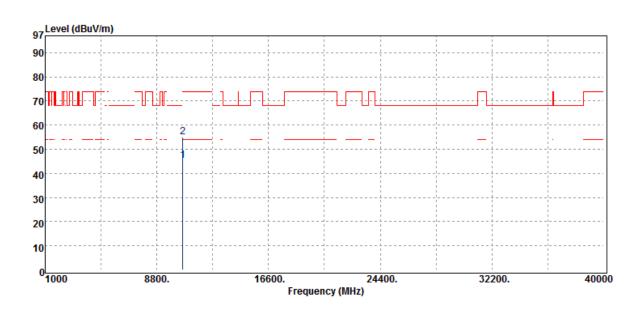
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-10-01 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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

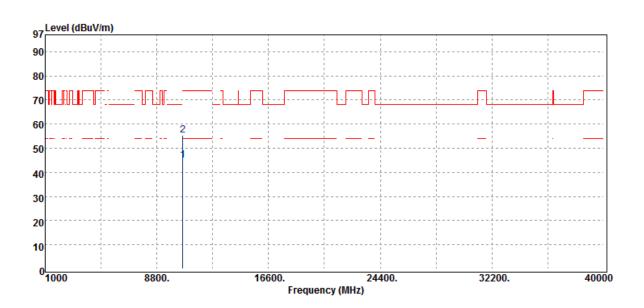
:802.11n20B2 :5300 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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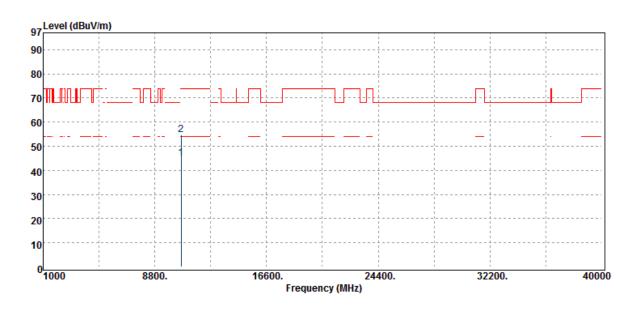
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n20B2 :5320 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

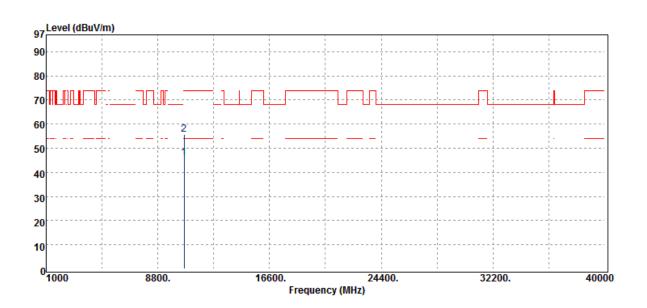
:802.11n20B2 :5320 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



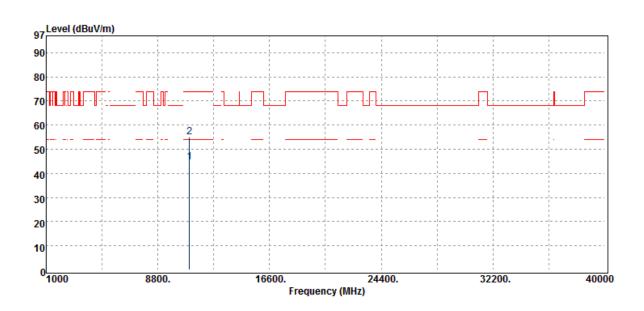
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

**Operation Band** :802.11n20B3 **Test Date** :2018-09-28

Fundamental Frequency :5500 MHz Temp./Humi. :23 deg\_C / 62 RH :Tx CH LOW :Wei **Operation Mode** Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

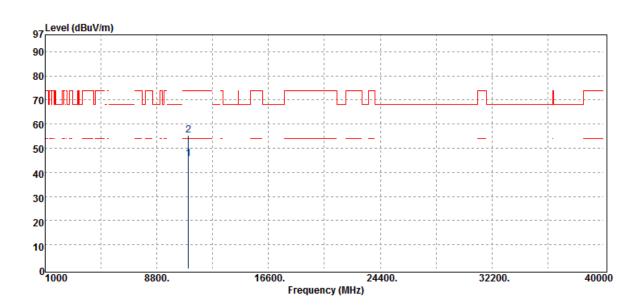
:802.11n20B3 :5500 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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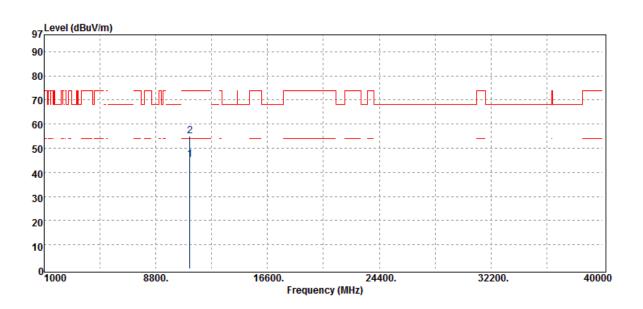
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



Page: 237 of 385

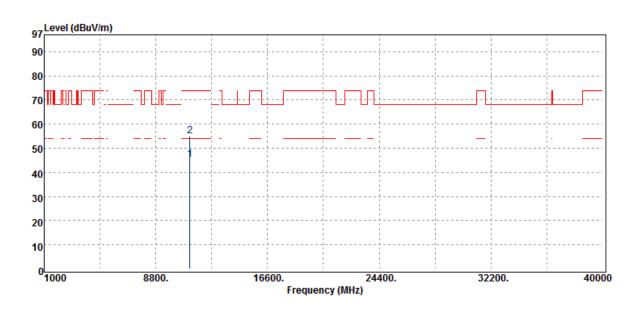
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B3 :5580 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



Page: 238 of 385

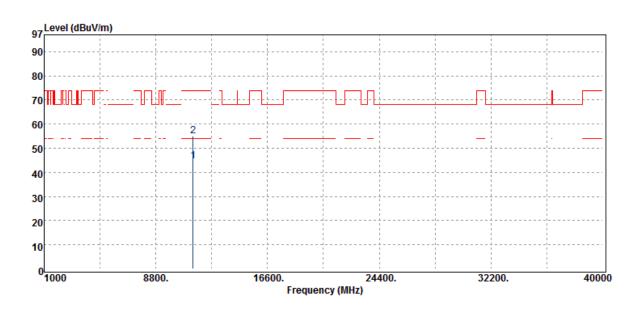
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

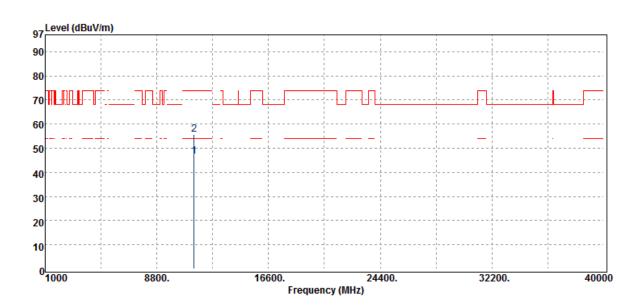
:802.11n20B3 :5700 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Mode** 

Report No.: ER/2018/90026

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

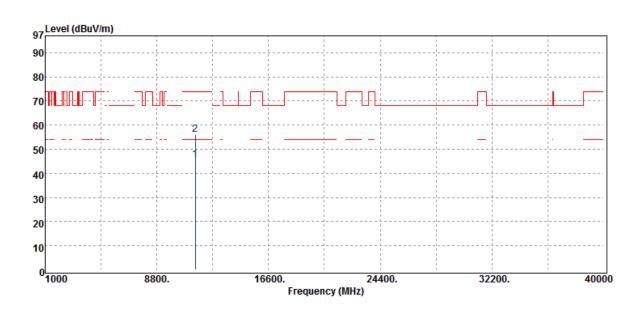
:Tx CH LOW

**Operation Band** :802.11n20B4 **Test Date** :2018-09-28

Fundamental Frequency :5745 MHz Temp./Humi. :23 deg\_C / 62 RH :Wei

Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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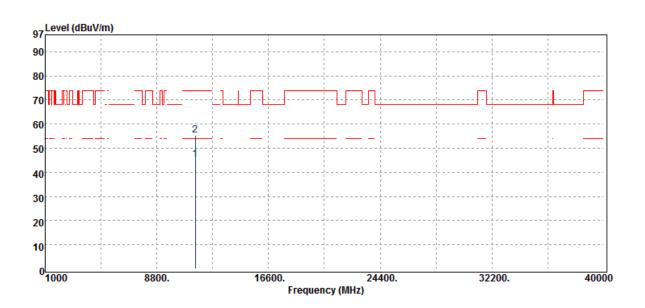
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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** 

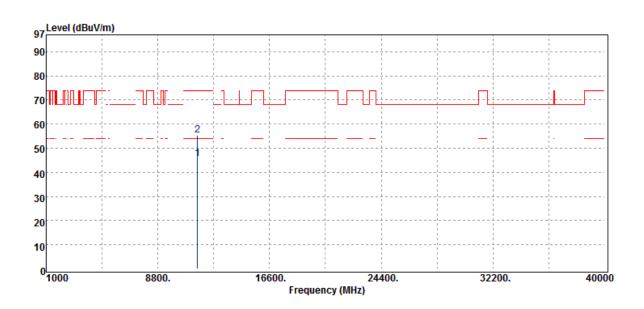
EUT Pol.

:802.11n20B4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency Operation Mode** EUT Pol.

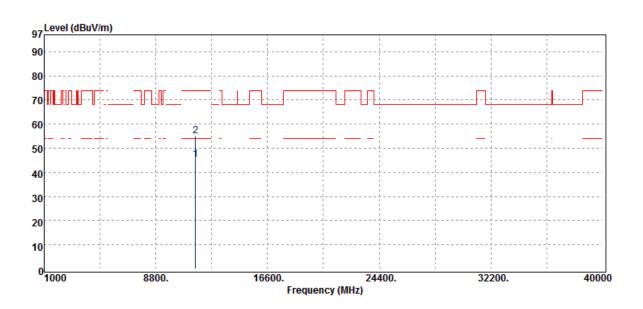
:802.11n20B4 :5785 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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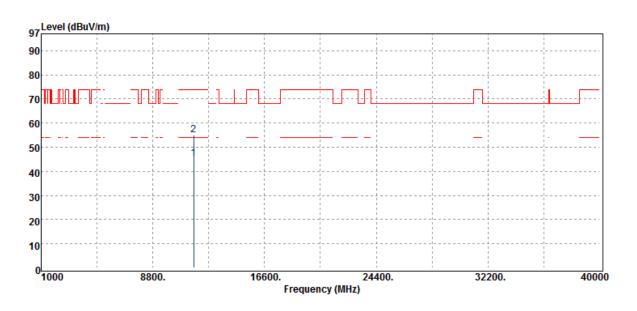
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-10-01 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

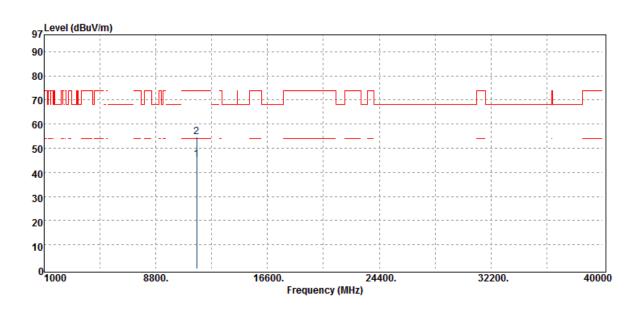
:802.11n20B4 :5825 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



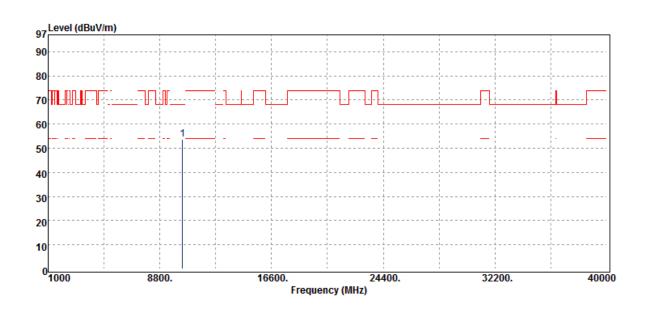
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# Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

**Operation Band** :802.11n40B1 **Test Date** :2018-09-28

Fundamental Frequency :5190 MHz Temp./Humi. :23 deg\_C / 62 RH :Tx CH LOW :Wei **Operation Mode** Engineer

EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m		
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

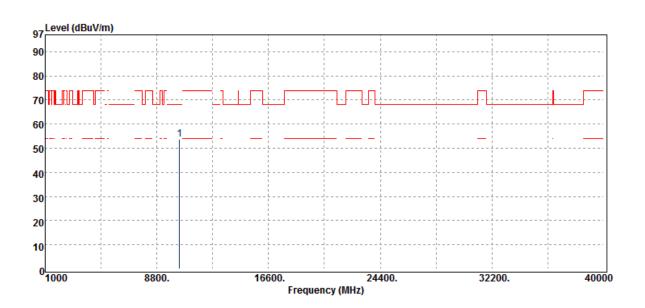
:802.11n40B1 :5190 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Fre	q. Dete	ector Spect	rum Facto	r Actual	Limit	Margin
	Mo	ode Reading	Level	FS	@3m	-
MH	lz PK/G	QP/AV dBµ	V dB	dBµV/m	n dBµV/m	dB
1038	0.00 Pe	eak 33.8	34 19.78	53.62	68.20	-14.58

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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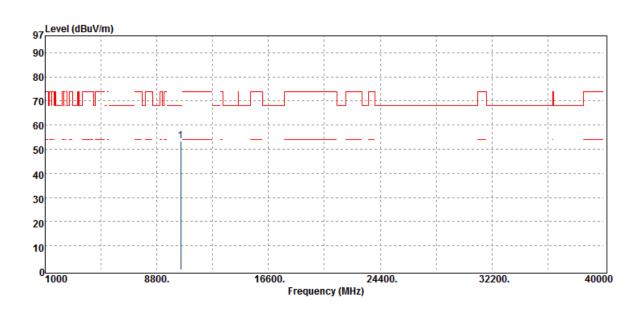
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n40B1 :5230 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10460.00	Peak	33.28	20.07	53.35	68.20	-14.85

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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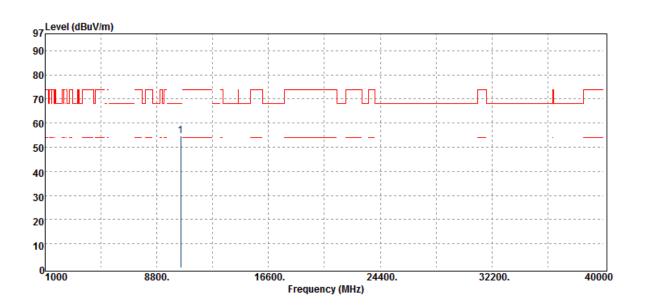
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n40B1 :5230 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
10460.00	Peak	34.52	20.07	54.59	68.20	-13.61

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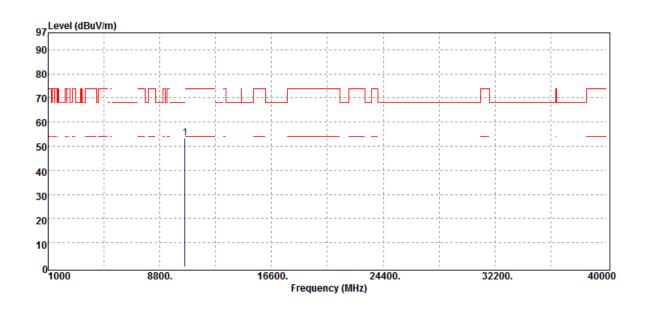
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Band :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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
	Mode	Reading Level		FS	<b>@</b> 3m	_	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency** Operation Mode EUT Pol.

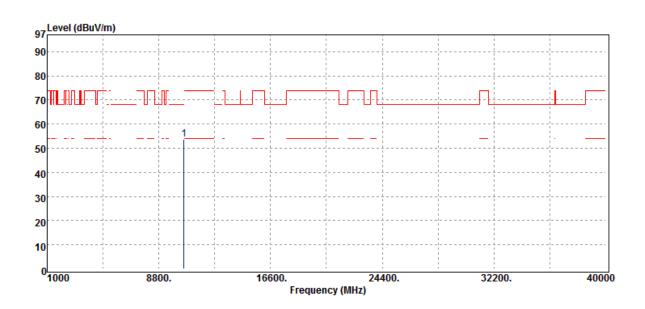
:802.11n40B2 :5270 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m	-	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
_	10540.00	Peak	33.69	20.02	53.71	68.20	-14.49	_

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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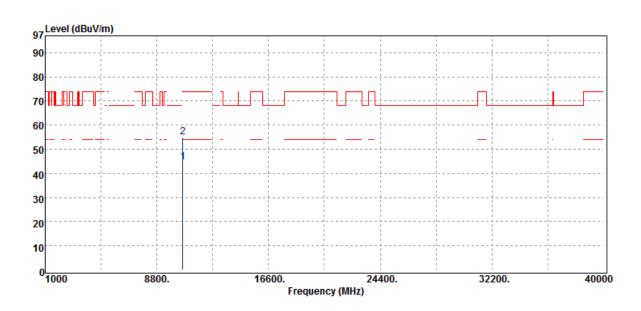
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11n40B2 :5310 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

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

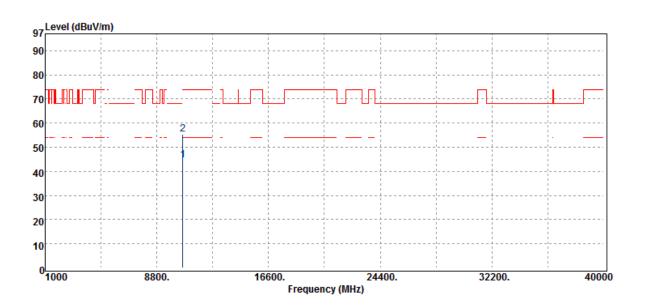
:802.11n40B2 :5310 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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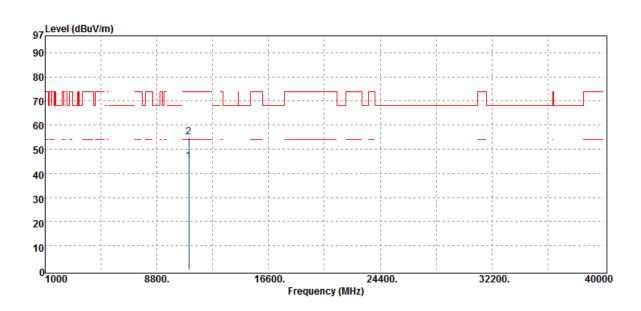
# Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band :802.11n40B3 Test Date :2018-10-01

Fundamental Frequency :5510 MHz Temp./Humi. :23 deg\_C / 62 RH

Operation Mode :Tx CH LOW 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	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

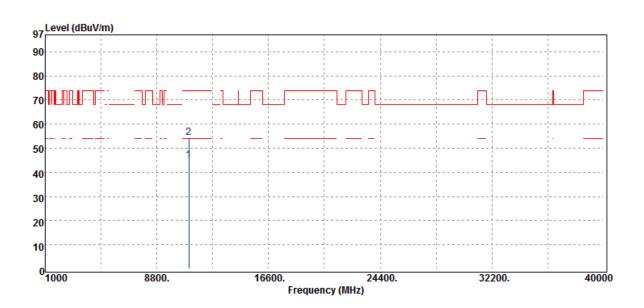
:802.11n40B3 :5510 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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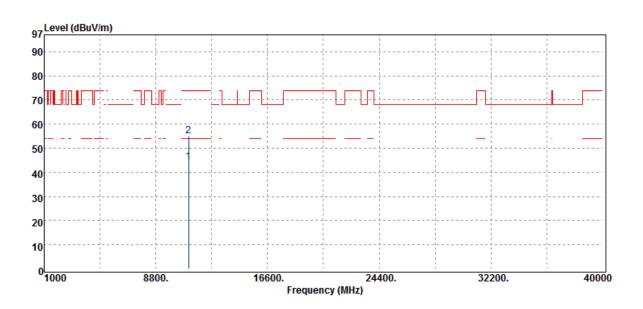
**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5550 MHz :Tx CH MID :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

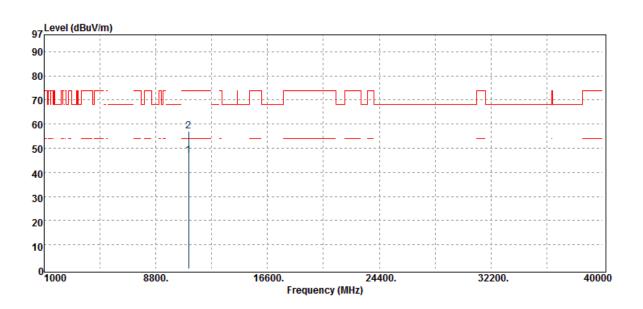
:802.11n40B3 :5550 MHz :Tx CH MID :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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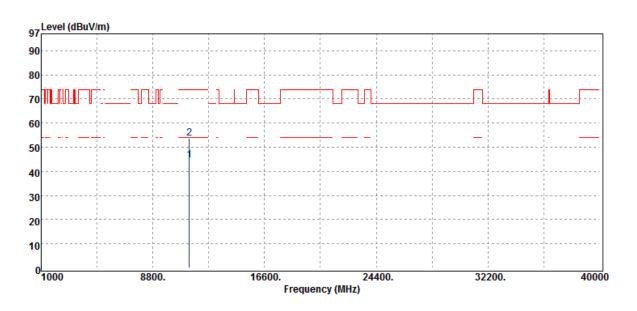
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

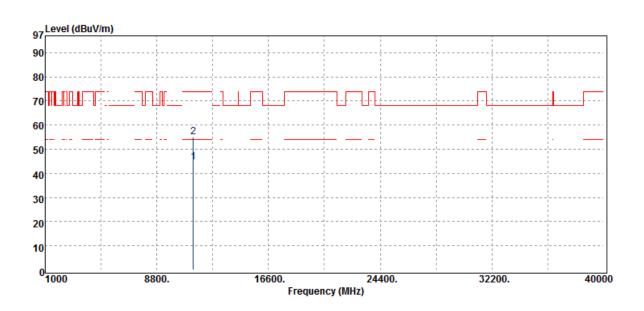
:802.11n40B3 :5670 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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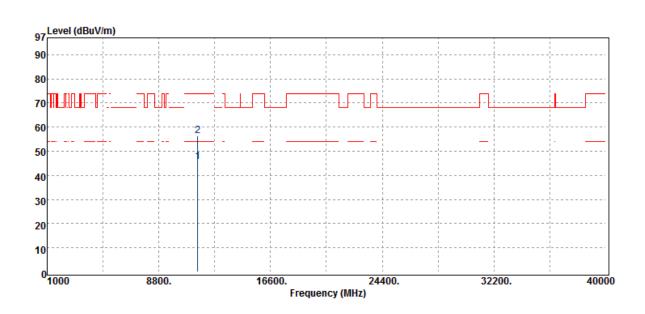
Page: 260 of 385

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

**Operation Band** :802.11n40B4 **Test Date** :2018-09-28

Fundamental Frequency :5755 MHz Temp./Humi. :23 deg\_C / 62 RH :Tx CH LOW :Wei **Operation Mode** Engineer

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
11510.0	00 Average	23.96	21.66	45.62	54.00	-8.38
11510.0	00 Peak	34.82	21.66	56.48	74.00	-17.52

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

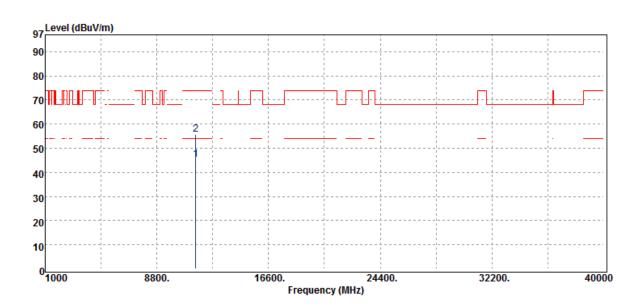
:802.11n40B4 :5755 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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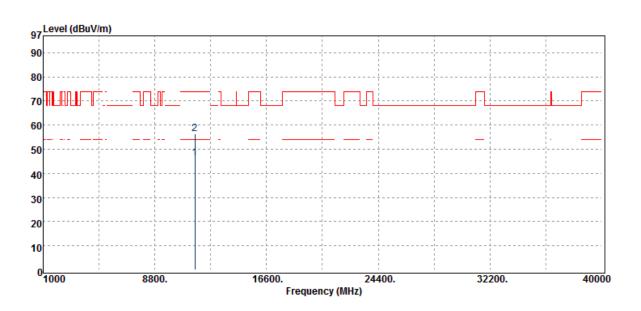
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

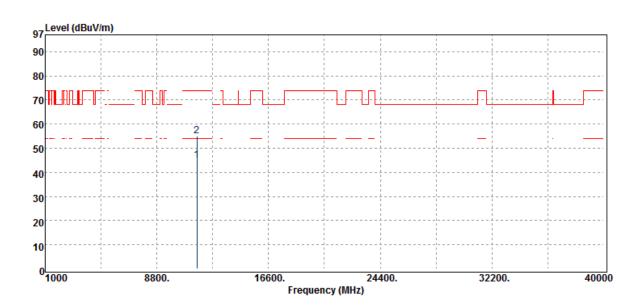
:802.11n40B4 :5795 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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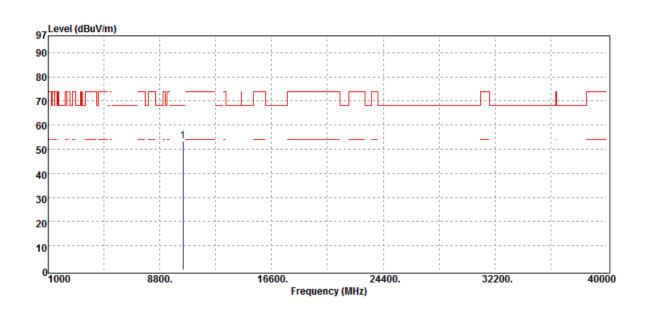
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band :802.11ac80B1 Test Date :2018-09-28

Fundamental Frequency :5210 MHz Temp./Humi. :23 deg\_C / 62 RH

Operation Mode :Tx CH LOW 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	dΒμV	dB	dBμV/m	dBµV/m	dB	_
10	)420.00	Peak	33.34	19.99	53.33	68.20	-14.87	

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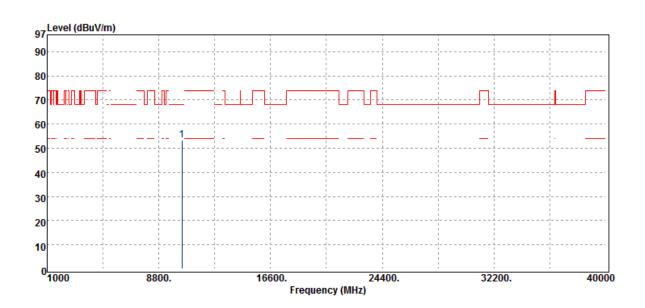
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10420.00	Peak	33.44	19.99	53.43	68.20	-14.77

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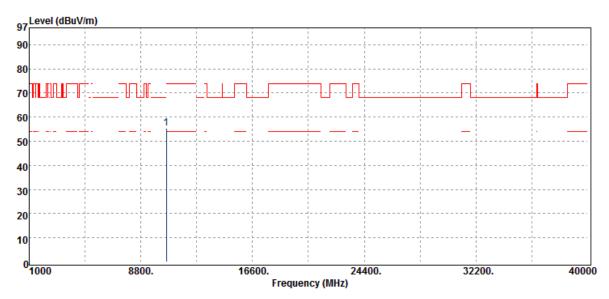
# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

**Operation Band** :802.11ac80B2 **Test Date** :2018-09-28

Fundamental Frequency :5290 MHz Temp./Humi. :23 deg\_C / 62 RH

**Operation Mode** :Tx CH HIGH :Wei Engineer EUT Pol. :E2 Plane

:VERTICAL Measurement Antenna Pol.



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

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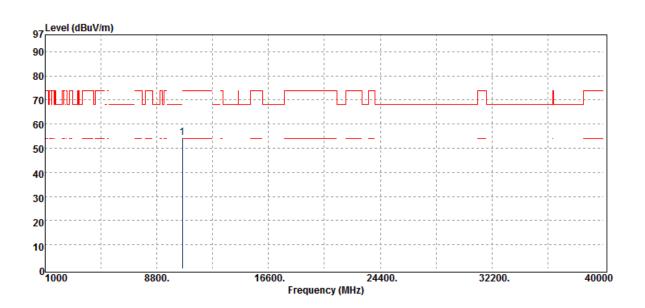
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

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

**Test Date** Temp./Humi. :2018-09-28 :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :HORIZONTAL



F	req.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
10	580.00	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

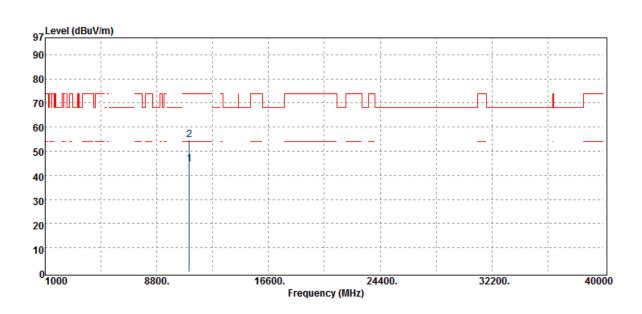
:Tx CH LOW

**Operation Band** :802.11ac80B3 **Test Date** :2018-09-28

Fundamental Frequency :5530 MHz Temp./Humi. :23 deg\_C / 62 RH

Engineer

**Operation Mode** EUT Pol. :E2 Plane Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	_
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

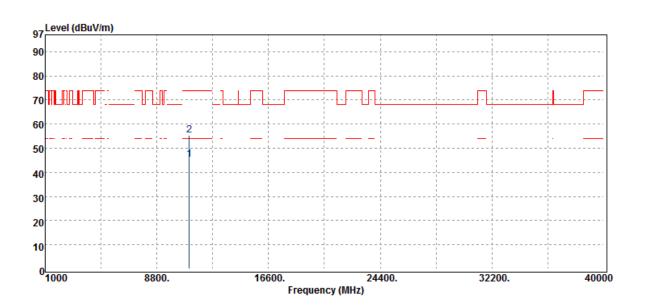
:802.11ac80B3 :5530 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



Page: 270 of 385

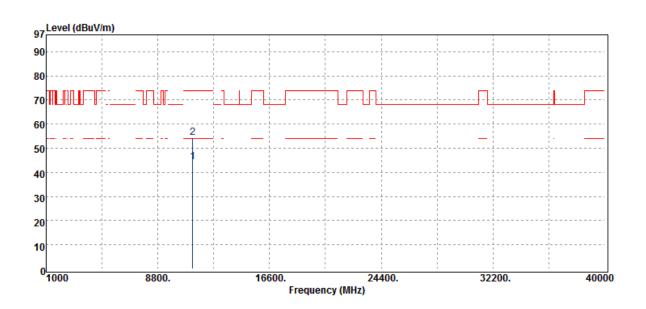
**Operation Band Fundamental Frequency** Operation Mode EUT Pol.

:802.11ac80B3 :5610 MHz :Tx CH HIGH :E2 Plane

**Test Date** :2018-09-28 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

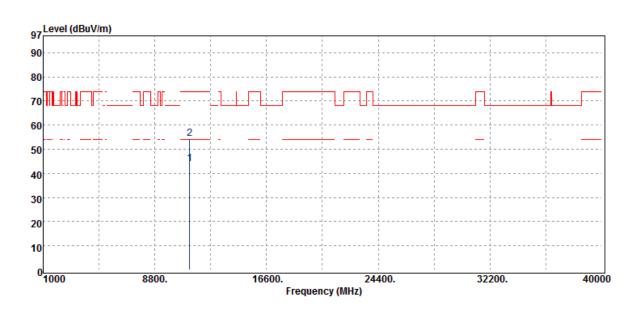
:802.11ac80B3 :5610 MHz :Tx CH HIGH :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



Page: 272 of 385

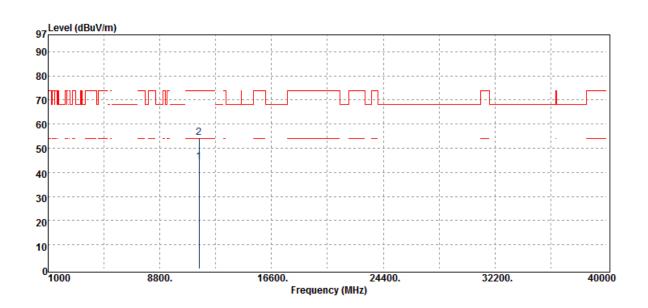
#### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Band :802.11ac80B4 Test Date :2018-09-28

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. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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303 Talwall Ltu



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

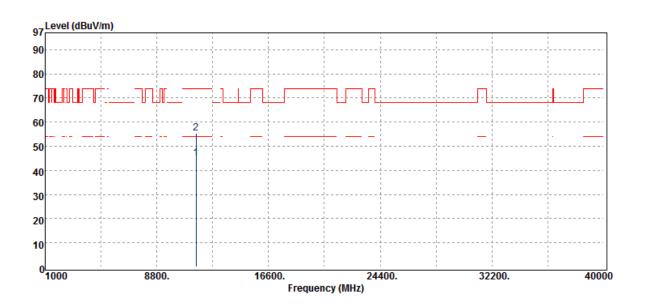
:802.11ac80B4 :5775 MHz :Tx CH LOW :E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



:VERTICAL

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Measurement Antenna Pol.

## Band edge falling to restricted band

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

:E2 Plane

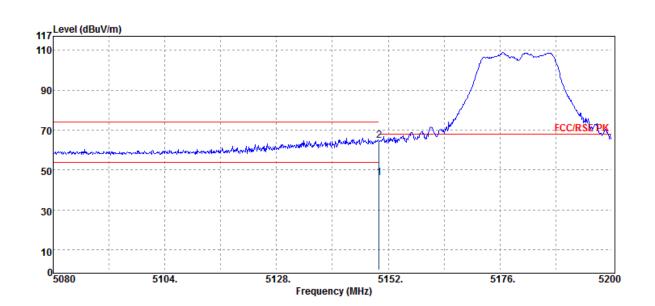
802.11a mode

EUT Pol.

**Operation Band** :802.11aB1 **Test Date** :2018-09-19

**Fundamental Frequency** Temp./Humi. :5180 MHz :23 deg\_C / 62 RH

Operation Mode :Bandedge CH LOW Engineer :Wei



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
5150.00	Average	38.00	8.32	46.32	54.00	-7.68
5150.00	Peak	56.27	8.32	64.59	74.00	-9.41

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**Operation Band Fundamental Frequency Operation Mode** 

:802.11aB1 :5180 MHz

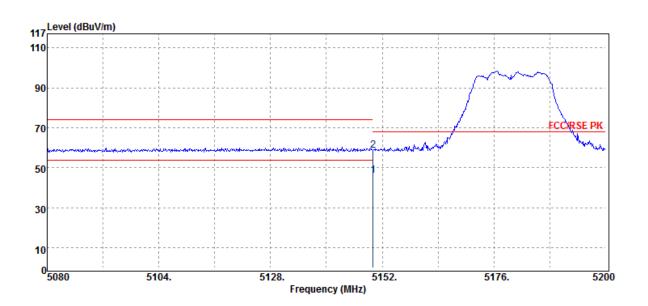
:Bandedge CH LOW

EUT Pol. :E2 Plane **Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5150.00	Average	37.67	8.32	45.99	54.00	-8.01
5150.00	Peak	50.52	8.32	58.84	74.00	-15.16

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11aB2 :5320 MHz

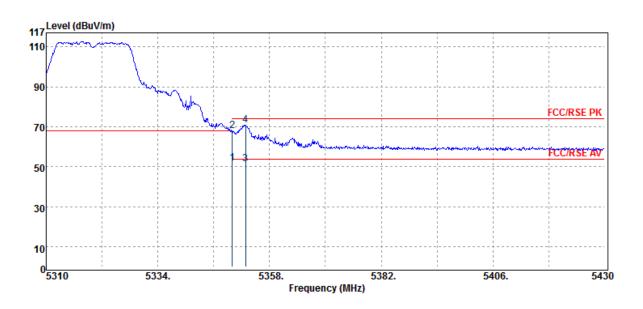
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

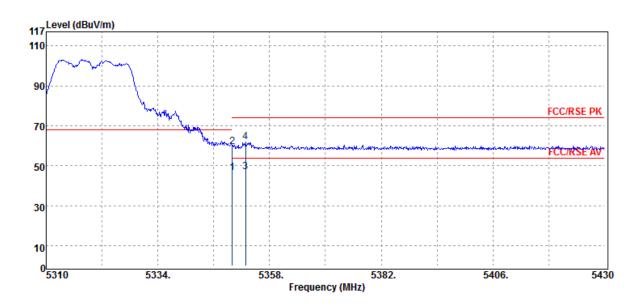
:E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11aB3 :5500 MHz

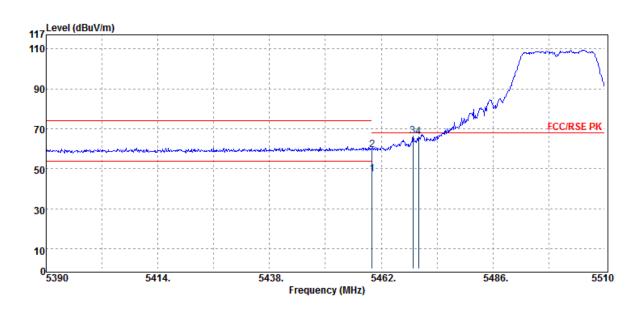
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB3 :5500 MHz

:Bandedge CH LOW

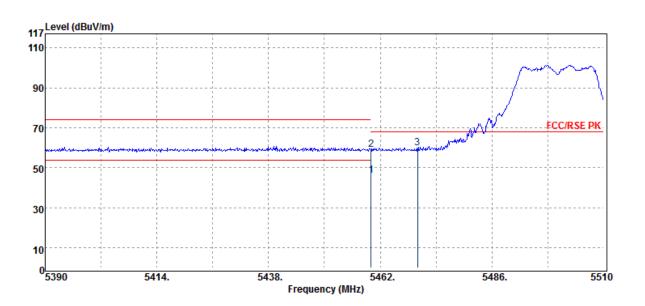
:E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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 Fundamental Frequency Operation Mode** EUT Pol.

:802.11aB3 :5700 MHz

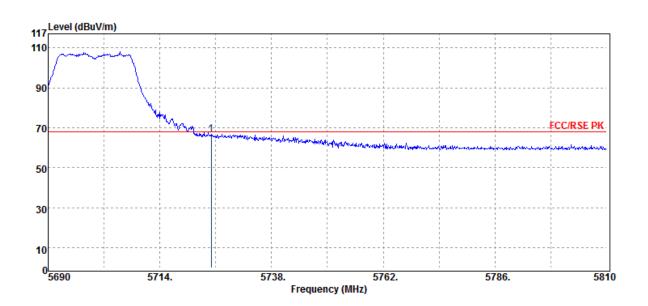
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m		
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
	5725.00	Peak	57.21	9.44	66.65	68.20	-1.55	

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

:802.11aB3 :5700 MHz

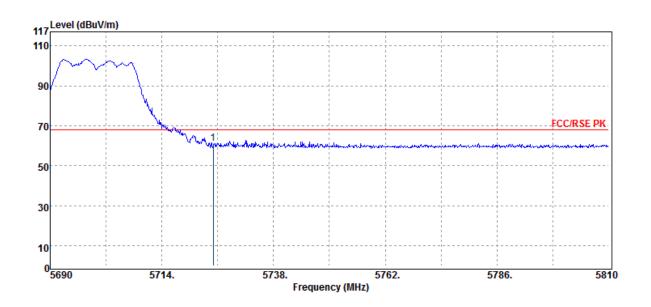
:Bandedge CH HIGH

:E2 Plane

**Test Date** Temp./Humi. :2018-09-19 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	<b>@</b> 3m	-
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	51.69	9.44	61.13	68.20	-7.07

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

:802.11aB4 :5745 MHz

:Bandedge CH LOW

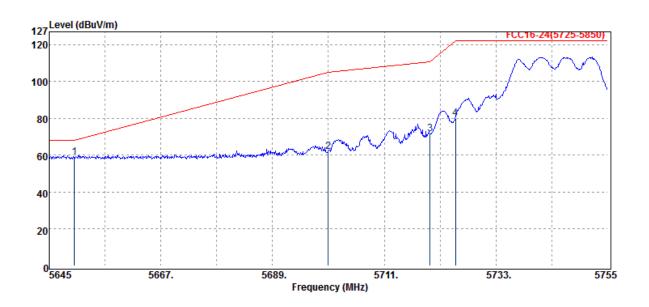
:E2 Plane

**Test Date** Temp./Humi. :2018-09-19

:23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11aB4 :5745 MHz

:Bandedge CH LOW

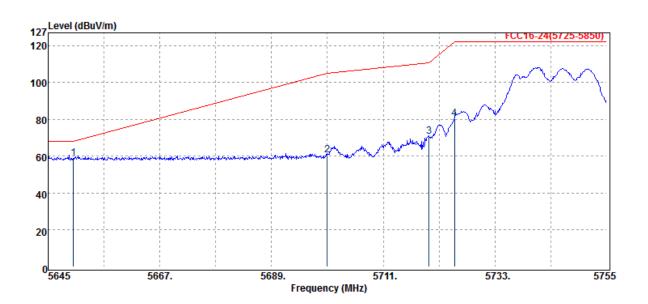
:E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

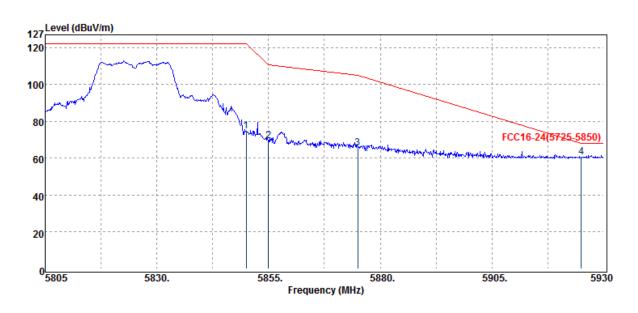
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11aB4 :5825 MHz

:Bandedge CH HIGH

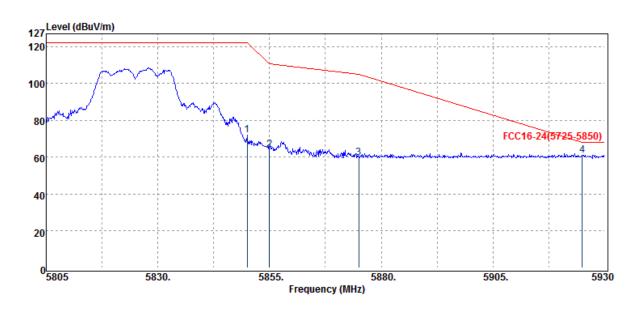
:E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



5200

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#### 802.11n20 HT mode

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

10

0 5080

5104.

:802.11n20B1 :5180 MHz

:Bandedge CH LOW

:E2 Plane

**Test Date** Temp./Humi.

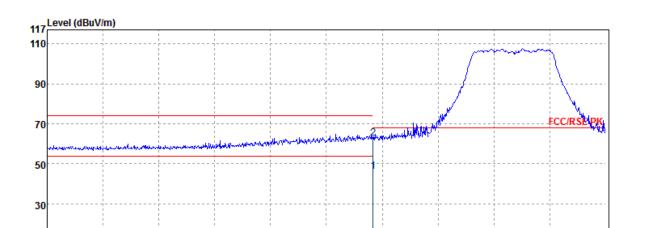
Measurement Antenna Pol.

5176.

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

:VERTICAL

Engineer :Wei



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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

Frequency (MHz)

5152.

5128

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.

t (886-2) 2299-3279

Unless otherwise stated the results snown in this test report reter only to the sample(s) tested and such sample(s) are retained for 90 days only. 
Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.

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 Fundamental Frequency Operation Mode** EUT Pol.

:802.11n20B1 :5180 MHz

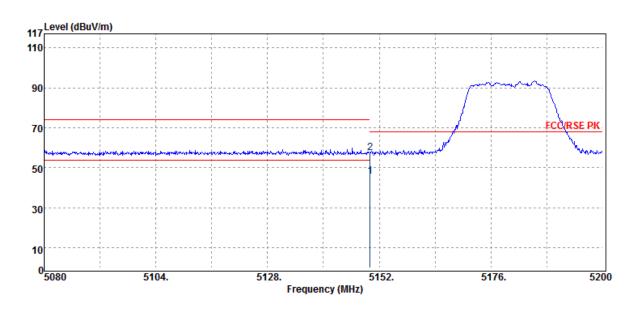
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-18 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
5150.00	Average	37.51	8.32	45.83	54.00	-8.17
5150.00	Peak	49.21	8.32	57.53	74.00	-16.47

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n20B2 :5320 MHz

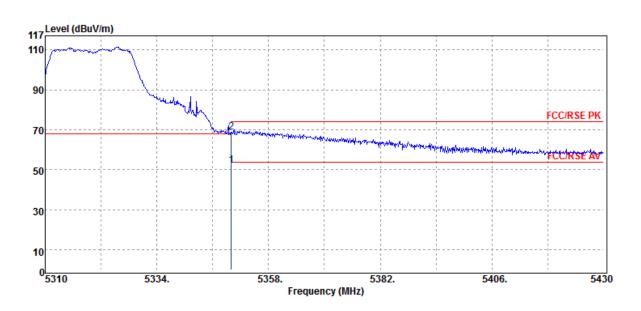
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-18 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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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Unless otherwise stated the results snown in this test report reter only to the sample(s) tested and such sample(s) are retained for 90 days only. 
Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n20B2 :5320 MHz

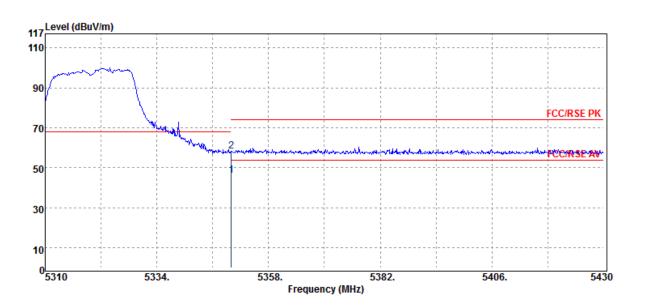
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-18 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	-
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n20B3 :5500 MHz

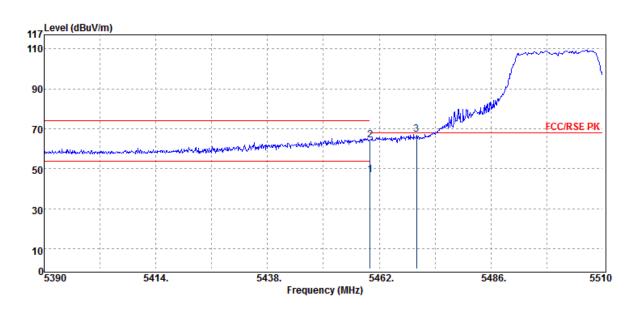
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-18 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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f (886-2) 2298-0488



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

:802.11n20B3 :5500 MHz

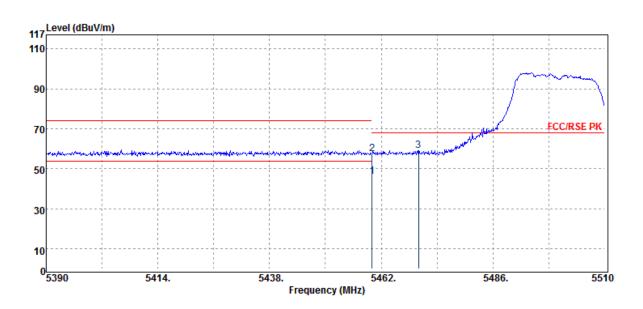
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-18 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

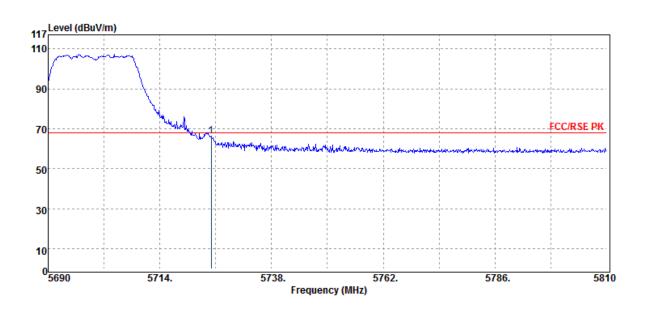
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m		
_	MHz	PK/QP/AV	dΒμV	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

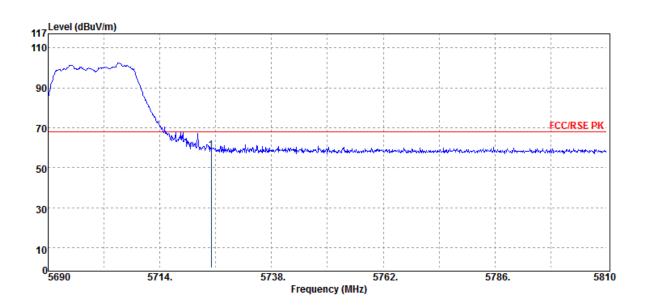
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	<b>@</b> 3m		
_	MHz	PK/QP/AV	dΒμV	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

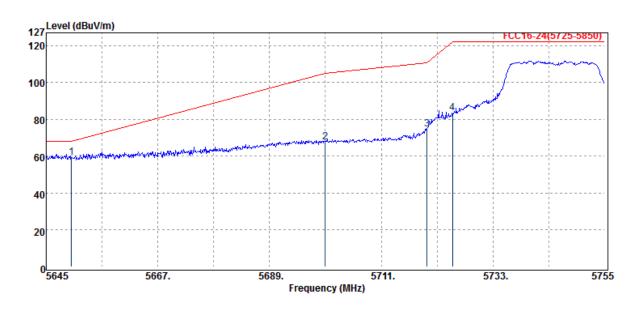
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

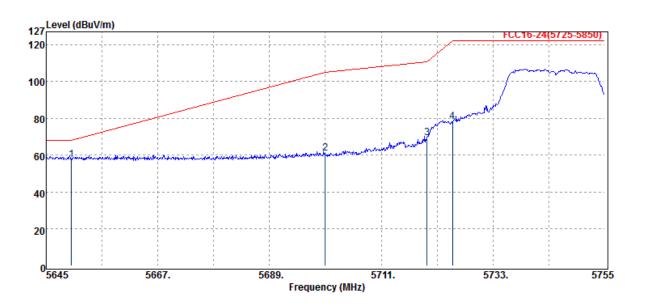
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH :Wei

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

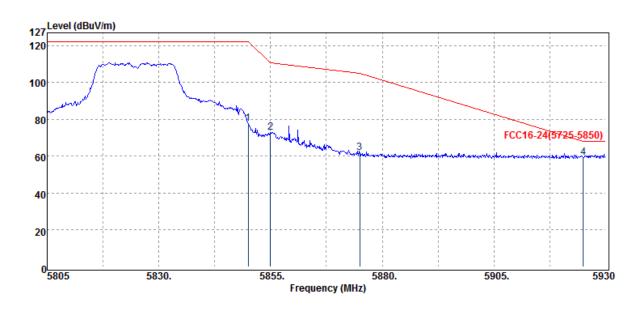
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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

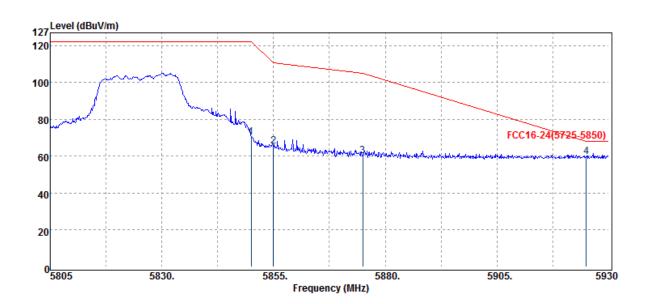
:E2 Plane

**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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#### 802.11n40 HT mode

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

:802.11n40B1 :5190 MHz

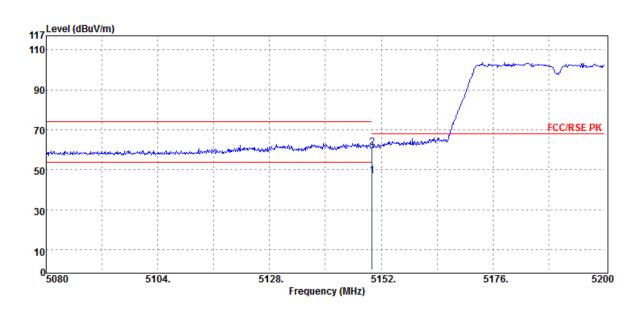
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

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
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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n40B1 :5190 MHz

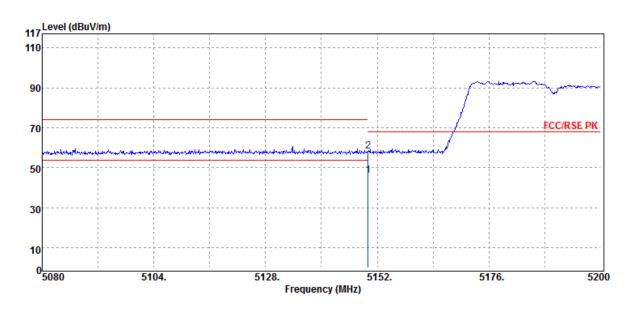
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Fre	eq.	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MI	Hz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
515	0.00	Average	37.80	8.32	46.12	54.00	-7.88
515	0.00	Peak	50.18	8.32	58.50	74.00	-15.50

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n40B2 :5310 MHz

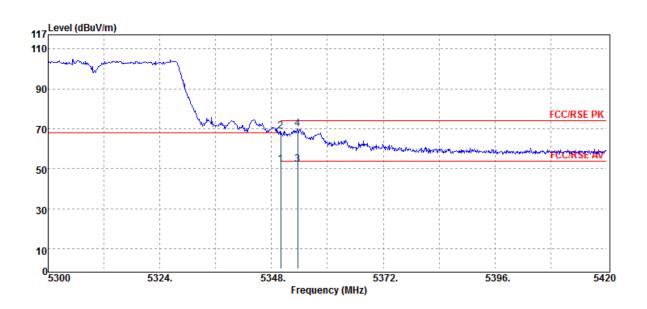
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n40B2 :5310 MHz

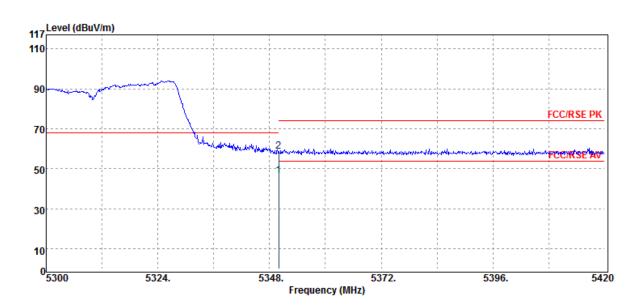
:Bandedge CH HIGH

:E2 Plane

**Test Date** Temp./Humi. :2018-09-19 :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	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

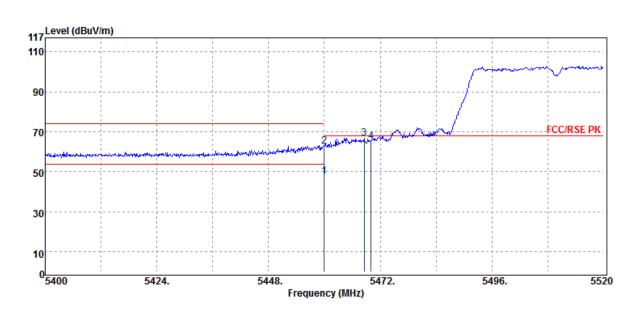
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Page: 303 of 385

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

:802.11n40B3 :5510 MHz

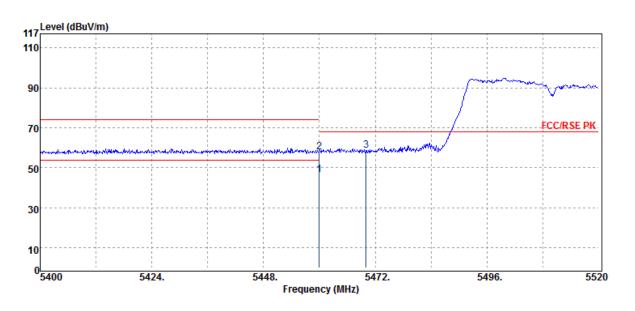
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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**Operation Band Fundamental Frequency Operation Mode** EUT Pol.

:802.11n40B3 :5670 MHz

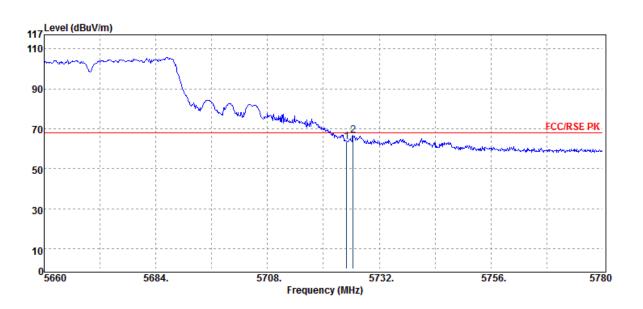
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	_
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
5725.00	Peak	54.18	9.44	63.62	68.20	-4.58
5726.36	Peak	57.26	9.44	66.70	68.20	-1.50

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.

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

:802.11n40B3 :5670 MHz

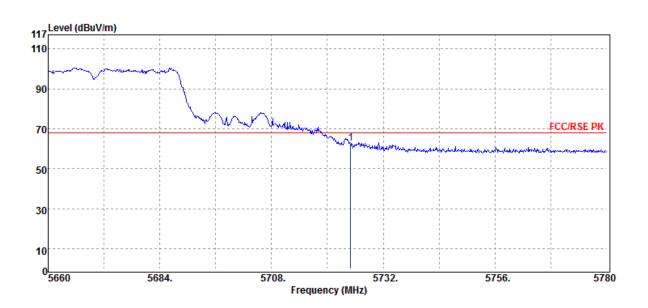
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

:Wei Engineer

Measurement Antenna Pol. :HORIZONTAL



	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m	-	
_	MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB	
	5725.00	Peak	53.14	9.44	62.58	68.20	-5.62	

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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n40B4 :5755 MHz

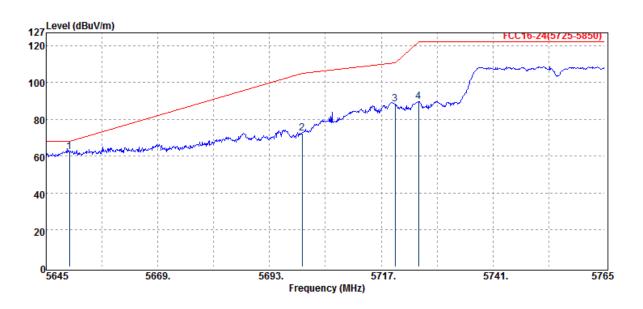
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n40B4 :5755 MHz :Bandedge CH LOW

:E2 Plane

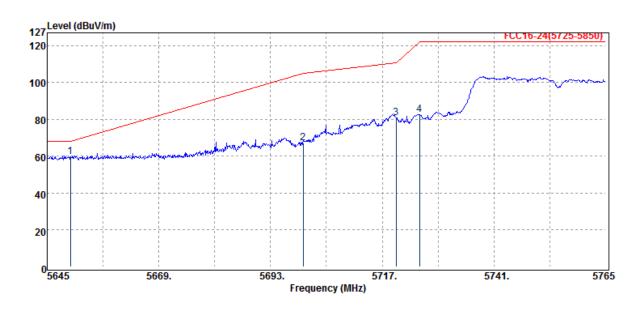
**Test Date** Temp./Humi. Engineer

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

:Wei

Measurement Antenna Pol.

:HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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Personal Results and the sample(s) tested and such sample(s) tested and sample(s) tested and such sample(s) tested and such sample(s) tested and s may be prosecuted to the fullest extent of the law.



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

:802.11n40B4 :5795 MHz :Bandedge CH HIGH

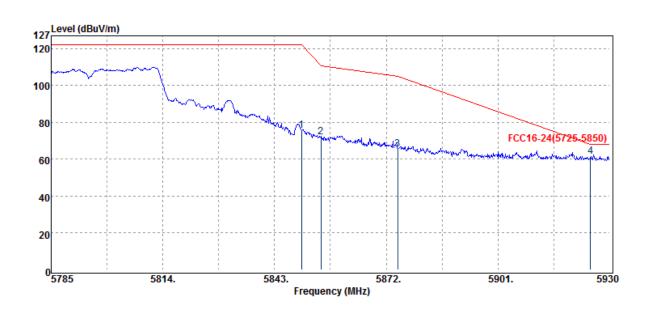
:E2 Plane

**Test Date** Temp./Humi. :2018-09-19 :23 deg\_C / 62 RH

Engineer

Measurement Antenna Pol.

:Wei :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

Temp./Humi.

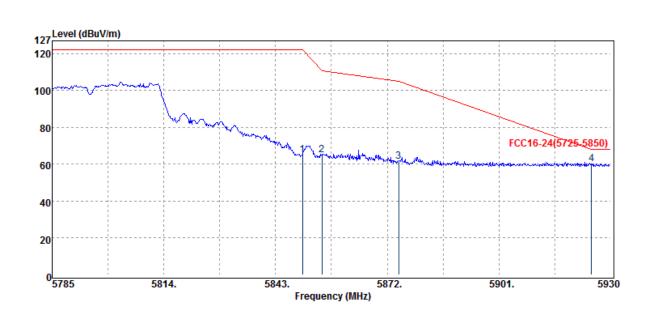
:2018-09-19 :23 deg\_C / 62 RH

Engineer

**Test Date** 

Measurement Antenna Pol.

:Wei :HORIZONTAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

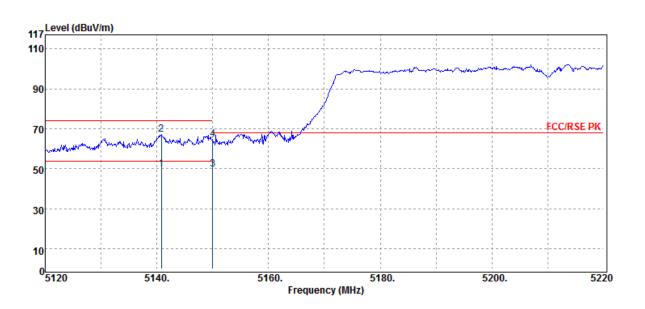
:Bandedge CH LOW

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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

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** EUT Pol.

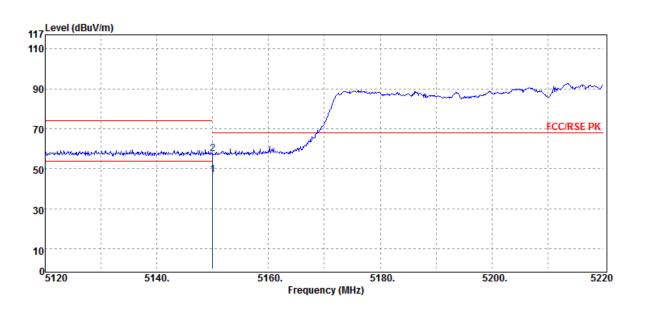
:802.11ac80B1 :5210 MHz :Bandedge CH LOW

Engineer

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH :Wei

Measurement Antenna Pol. :HORIZONTAL



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	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

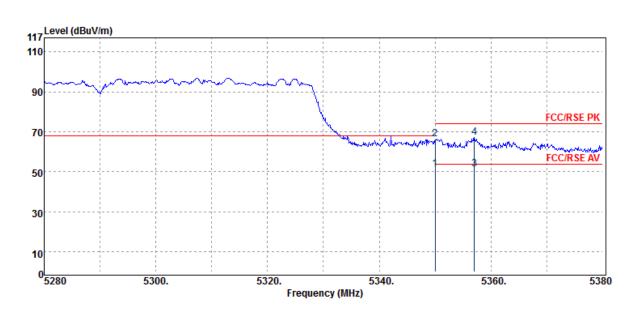
:Bandedge CH HIGH

:E2 Plane

**Test Date** :2018-09-19 Temp./Humi. :23 deg\_C / 62 RH

Engineer :Wei

Measurement Antenna Pol. :VERTICAL



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	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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