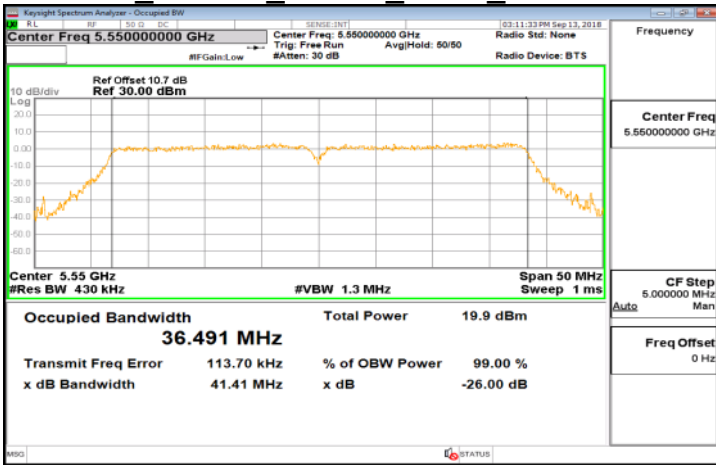
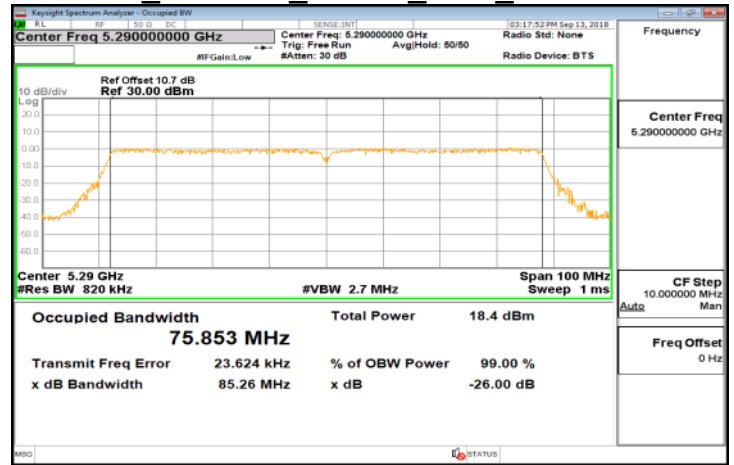


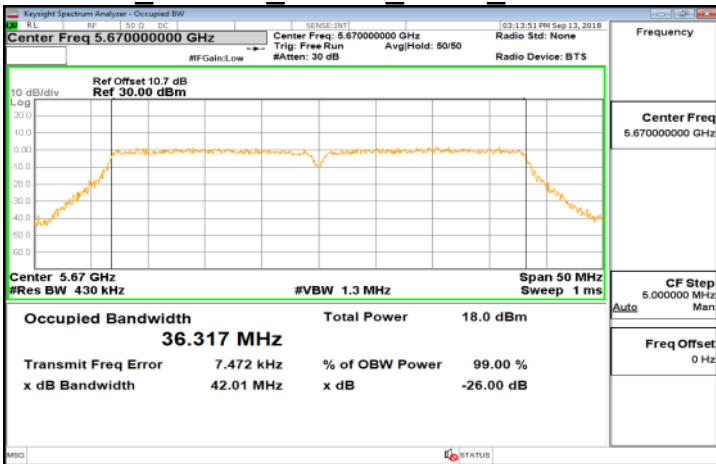
FCC 802.11n 40MHz AUX1 5550MHz



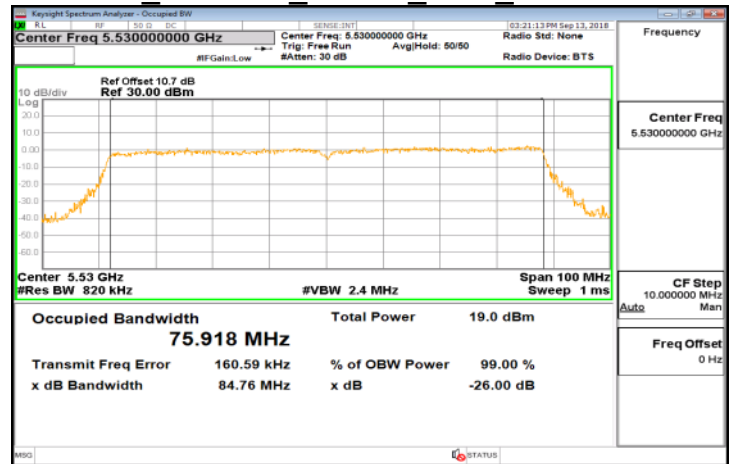
FCC 802.11ac 80MHz Main 5290MHz



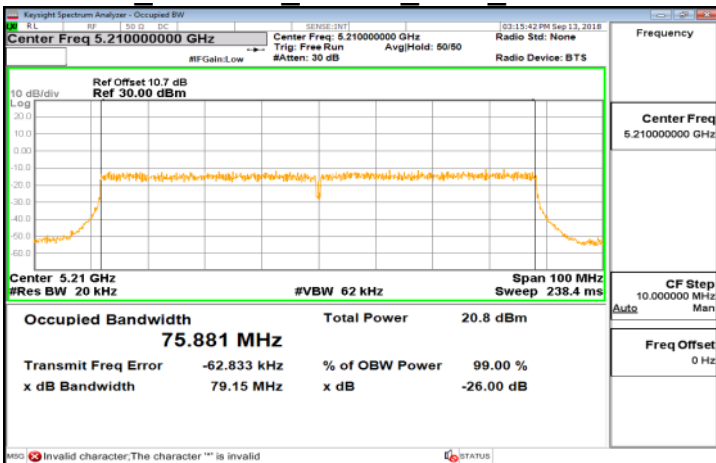
FCC 802.11n 40MHz AUX1 5670MHz



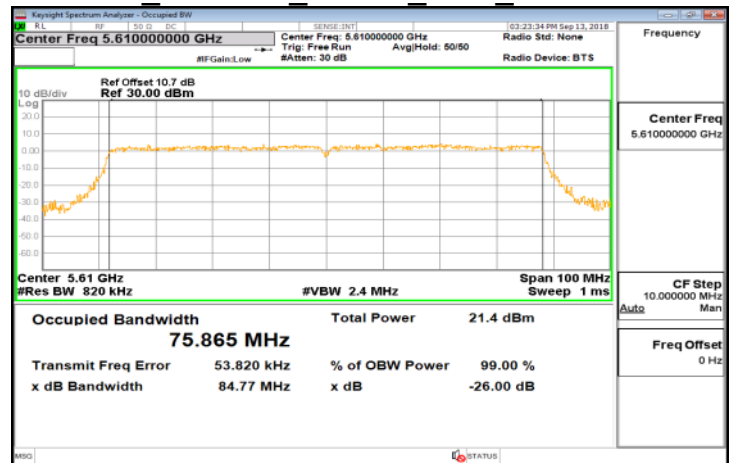
FCC 802.11ac 80MHz Main 5530MHz



FCC 802.11ac 80MHz Main 5210MHz



FCC 802.11ac 80MHz Main 5610MHz

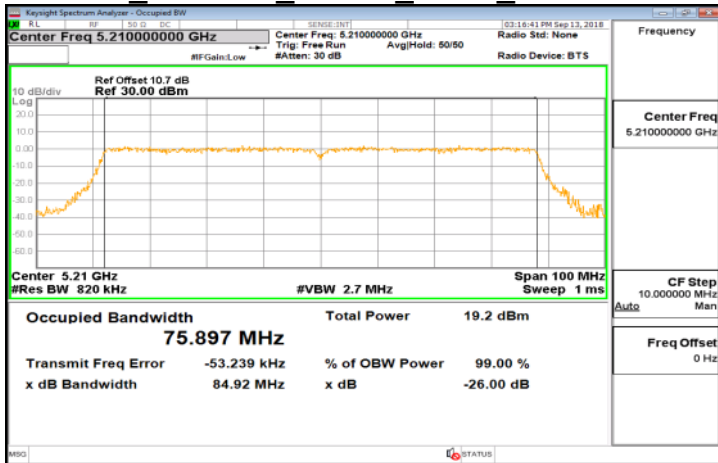


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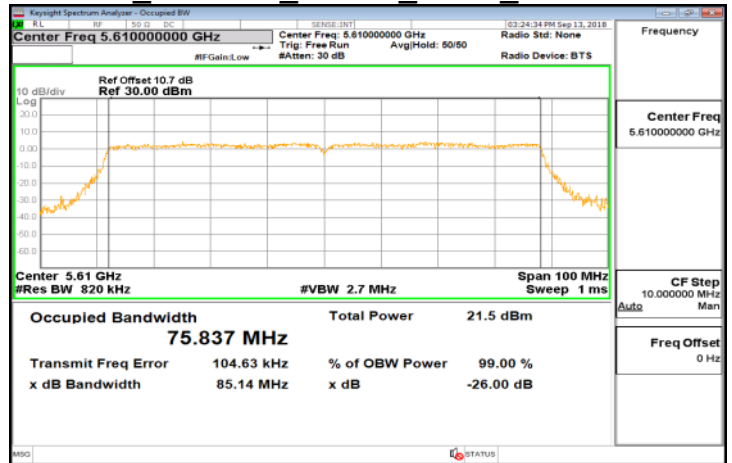
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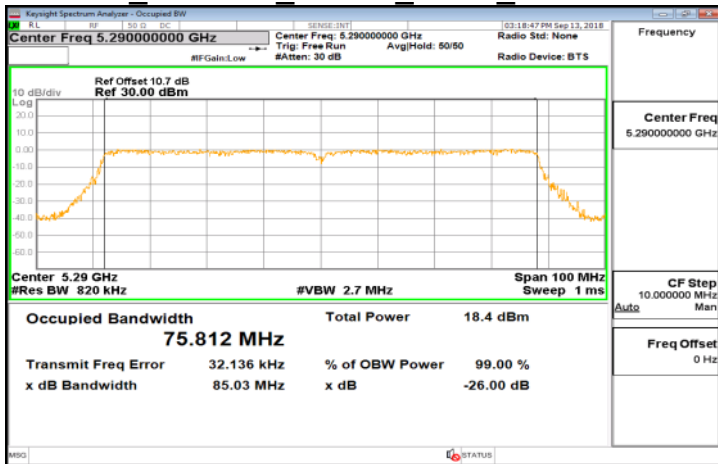
### FCC 802.11ac 80MHz AUX1 5210MHz



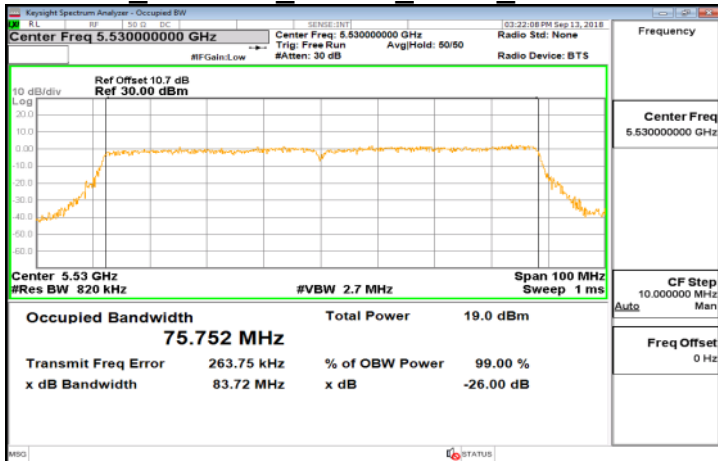
### FCC 802.11ac 80MHz AUX1 5610MHz



### FCC 802.11ac 80MHz AUX1 5290MHz



### FCC 802.11ac 80MHz AUX1 5530MHz



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device )	1 Watt(30dBm)
		Fixed point-to-point Access Ponit	1 Watt(30dBm)
	√	Mobile and portable client device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3			1 Watt(30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, both the transmit power and the power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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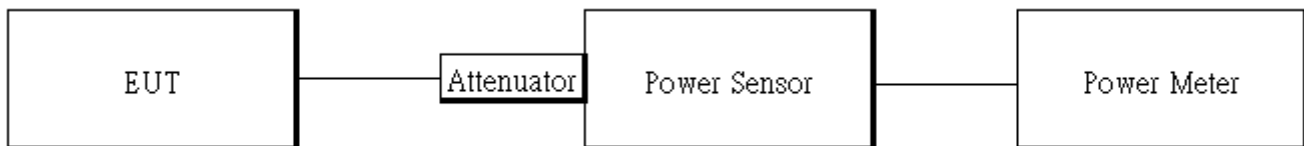
## 9.2 Measurement Procedure

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 the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

## 9.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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
DC Power Supply	Anritsu	E3640A	MY52410006	11/28/2017	11/27/2018
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
Notebook	Lenovo	T440P	P0000564	N/A	N/A

## 9.4 Test Set-up



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## 9.5 Measurement Result

### 802.11a\_2TX

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	6	12.23	12.18	15.29	33.781	23.98	PASS
44	5220	6	14.13	14.27	<b>17.28</b>	53.484	23.98	PASS
48	5240	6	13.88	13.73	16.89	48.835	23.98	PASS
52	5260	6	13.9	13.78	16.92	49.228	23.98 or 11+10log(B) = 23.85	PASS
60	5300	6	13.92	13.82	16.95	49.567	23.98 or 11+10log(B) = 24.23	PASS
64	5320	6	11.97	11.95	15.04	31.928	23.98 or 11+10log(B) = 23.73	PASS
100	5500	6	12.09	11.84	15.05	31.978	23.98 or 11+10log(B) = 23.80	PASS
116	5580	6	13.98	13.96	17.05	50.719	23.98 or 11+10log(B) = 23.84	PASS
140	5700	6	11.94	11.92	15.01	31.708	23.98 or 11+10log(B) = 24.32	PASS

### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	12.22	12.15	15.27	33.668	23.98	PASS
44	5220	MCS8	14.29	14.08	<b>17.27</b>	53.373	23.98	PASS
48	5240	MCS8	13.84	13.72	16.87	48.611	23.98	PASS
52	5260	MCS8	13.86	13.76	16.90	48.947	23.98 or 11+10log(B) = 24.00	PASS
60	5300	MCS8	13.98	13.66	16.91	49.090	23.98 or 11+10log(B) = 24.08	PASS
64	5320	MCS8	12.05	11.65	14.94	31.200	23.98 or 11+10log(B) = 24.07	PASS
100	5500	MCS8	11.94	11.94	15.03	31.820	23.98 or 11+10log(B) = 24.07	PASS
116	5580	MCS8	13.89	13.85	16.96	49.625	23.98 or 11+10log(B) = 24.47	PASS
140	5700	MCS8	11.88	11.78	14.92	31.026	23.98 or 11+10log(B) = 24.55	PASS

### 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	12.14	12.06	15.28	33.722	23.98	PASS
46	5230	MCS8	14.15	14.04	<b>17.27</b>	53.387	23.98	PASS
54	5270	MCS8	13.82	13.76	16.97	49.763	23.98 or 11+10log(B) = 26.93	PASS
62	5310	MCS8	12.13	11.89	15.19	33.042	23.98 or 11+10log(B) = 26.93	PASS
102	5510	MCS8	12.02	11.79	15.09	32.252	23.98 or 11+10log(B) = 26.94	PASS
110	5550	MCS8	14.01	13.93	17.15	51.870	23.98 or 11+10log(B) = 27.17	PASS
134	5670	MCS8	11.83	11.67	14.93	31.115	23.98 or 11+10log(B) = 26.92	PASS

### 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS0	11.84	11.66	15.39	34.602	23.98	PASS
58	5290	MCS0	11.79	11.59	15.33	34.129	23.98 or 11+10log(B) = 30.30	PASS
106	5530	MCS0	11.93	11.74	15.48	35.287	23.98 or 11+10log(B) = 30.23	PASS
122	5610	MCS0	13.89	13.73	<b>17.45</b>	55.602	23.98 or 11+10log(B) = 30.28	PASS

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## 10. POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Master device )	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	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, both the transmit power and the 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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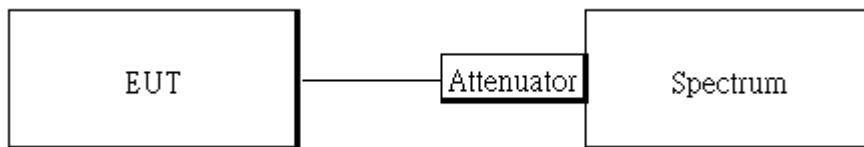
### 10.2 Measurement Procedure

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)
5. Use 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.

### 10.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	02/14/2018	02/13/2019
DC Power Supply	Anritsu	E3640A	MY52410006	11/28/2017	11/27/2018
Temperature Chamber	TERCHY	MHG-120LF	911009	05/18/2018	05/17/2019
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
Notebook	Lenovo	T440P	P0000564	N/A	N/A

### 10.4 Test Set-up



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**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	3.30	10.68	0.07	3.37	11	-7.63
5220	5.53	10.68	0.07	5.60	11	-5.40
5240	4.91	10.68	0.07	4.98	11	-6.02
5260	4.56	10.68	0.07	4.63	11	-6.37
5300	4.83	10.68	0.07	4.90	11	-6.10
5320	2.09	10.68	0.07	2.16	11	-8.84
5500	2.62	10.68	0.07	2.69	11	-8.31
5580	4.86	10.68	0.07	4.93	11	-6.07
5700	3.34	10.68	0.07	3.41	11	-7.59
POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.23	10.68	0.08	3.31	11	-7.69
5220	5.03	10.68	0.08	5.11	11	-5.89
5240	4.21	10.68	0.08	4.29	11	-6.71
5260	4.34	10.68	0.08	4.42	11	-6.58
5300	4.28	10.68	0.08	4.36	11	-6.64
5320	1.37	10.68	0.08	1.45	11	-9.55
5500	2.92	10.68	0.08	3.00	11	-8.00
5580	5.06	10.68	0.08	5.14	11	-5.86
5700	2.38	10.68	0.08	2.46	11	-8.54
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	-0.05	10.68	0.17	0.12	11	-10.88
5230	1.41	10.68	0.17	1.58	11	-9.42
5270	0.61	10.68	0.17	0.78	11	-10.22
5310	-0.96	10.68	0.17	-0.79	11	-11.79
5510	-0.04	10.68	0.17	0.13	11	-10.87
5550	1.84	10.68	0.17	2.01	11	-8.99
5670	-0.19	10.68	0.17	-0.02	11	-11.02
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	-3.85	10.68	0.63	-3.22	11	-14.22
5290	-4.55	10.68	0.63	-3.92	11	-14.92
5530	-2.77	10.68	0.63	-2.14	11	-13.14
5610	-1.48	10.68	0.63	-0.85	11	-11.85

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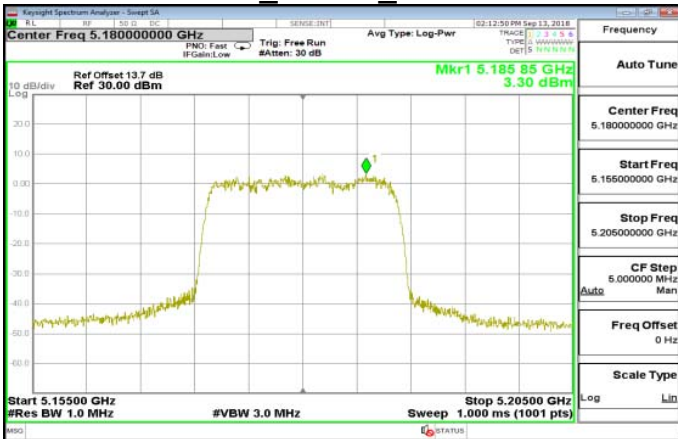
f (886-2) 2298-0488

www.tw.sgs.com

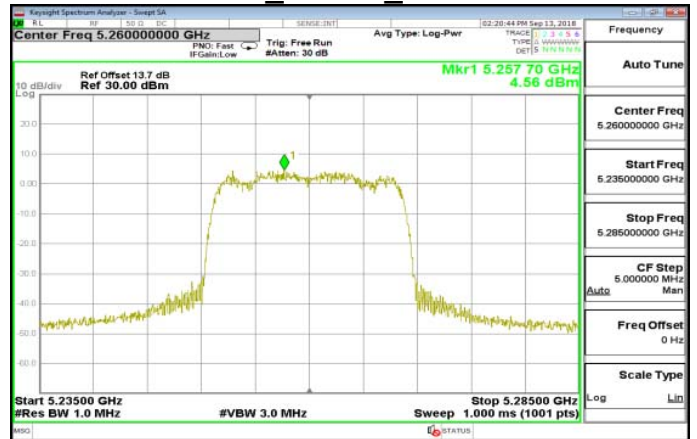
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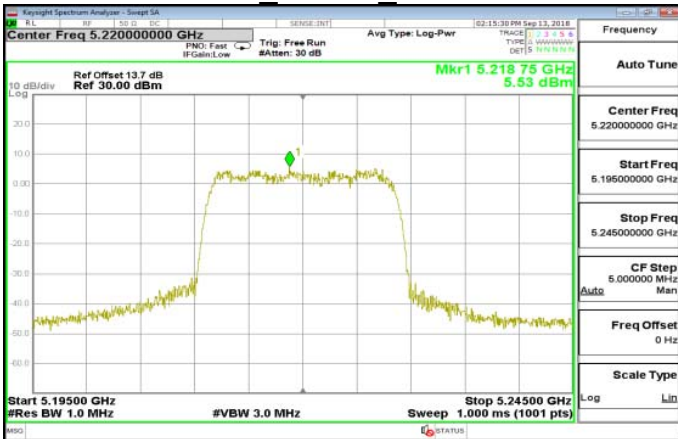
802.11a 20MHz 5180MHz



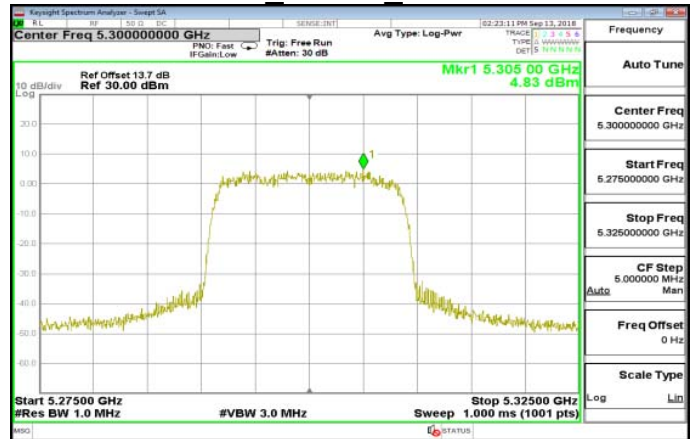
802.11a 20MHz 5260MHz



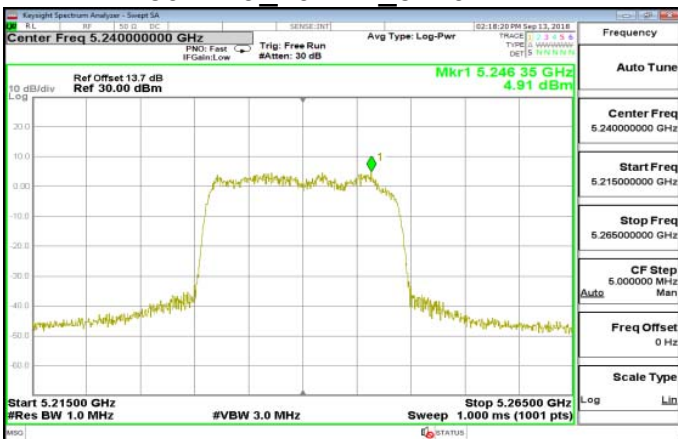
802.11a 20MHz 5220MHz



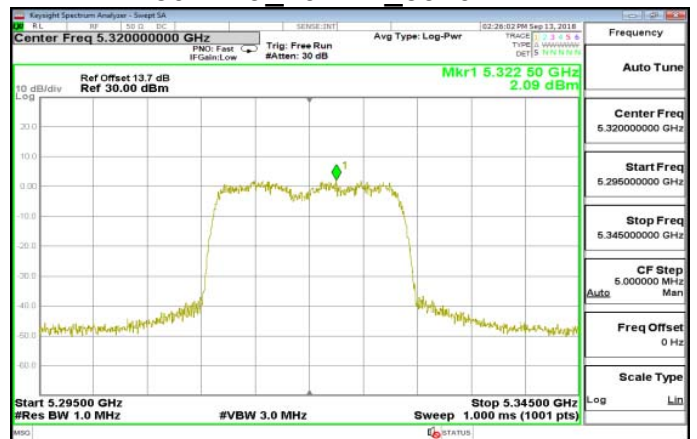
802.11a 20MHz 5300MHz



802.11a 20MHz 5240MHz



802.11a 20MHz 5320MHz

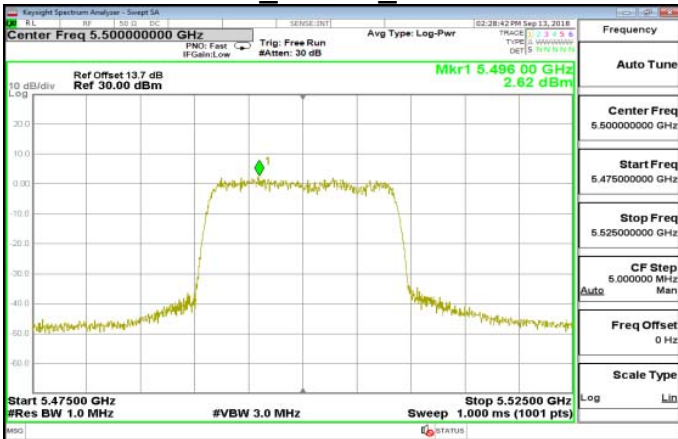


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802.11a 20MHz 5500MHz



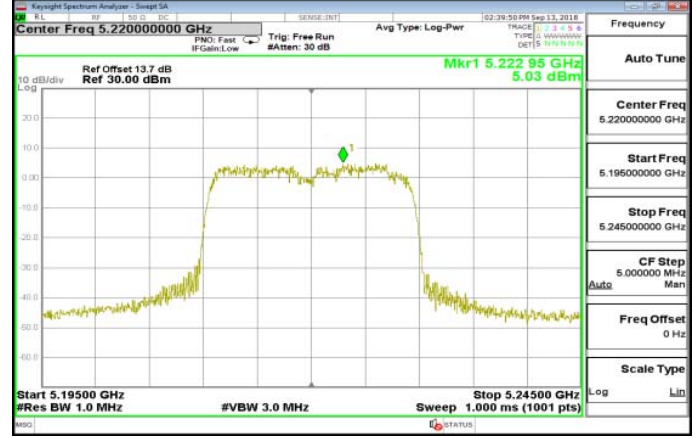
802.11n 20MHz 5180MHz



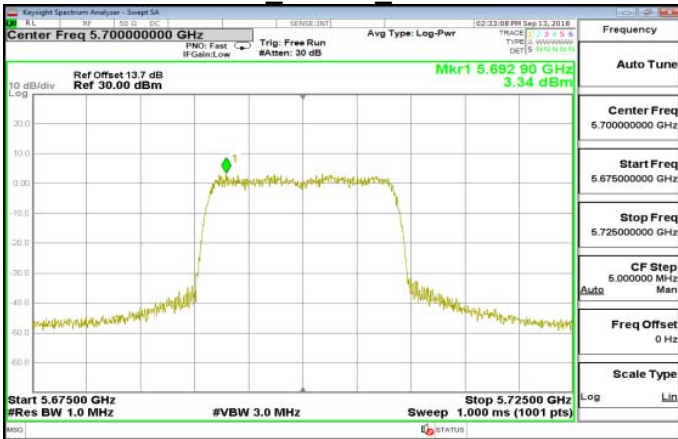
802.11a 20MHz 5580MHz



802.11n 20MHz 5220MHz



802.11a 20MHz 5700MHz



802.11n 20MHz 5240MHz

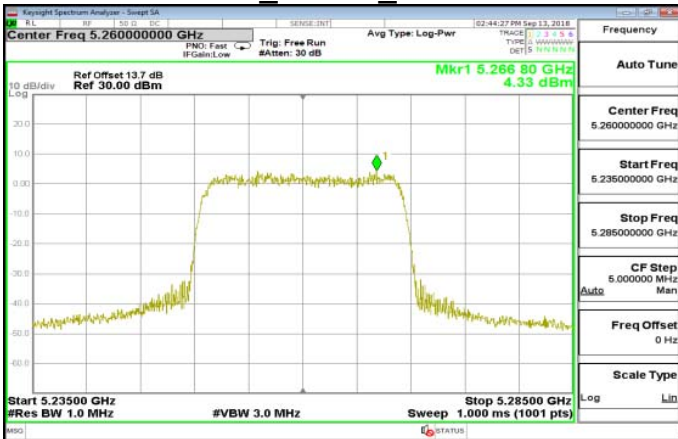


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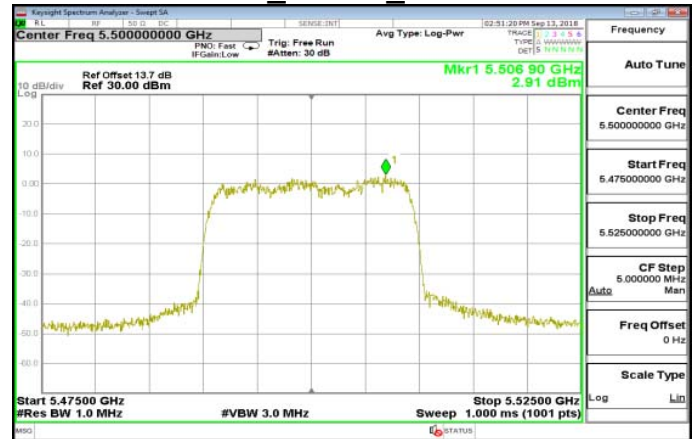
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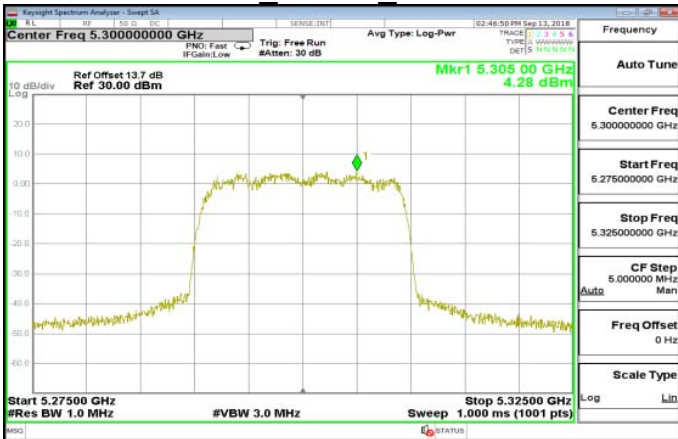
802.11n 20MHz 5260MHz



802.11n 20MHz 5500MHz



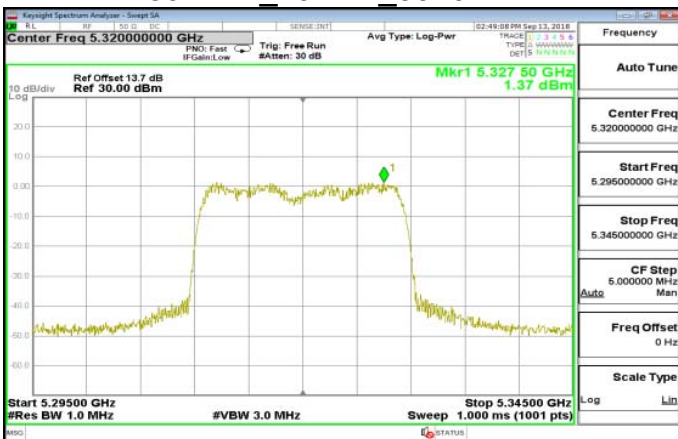
802.11n 20MHz 5300MHz



802.11n 20MHz 5580MHz



802.11n 20MHz 5320MHz



802.11n 20MHz 5700MHz

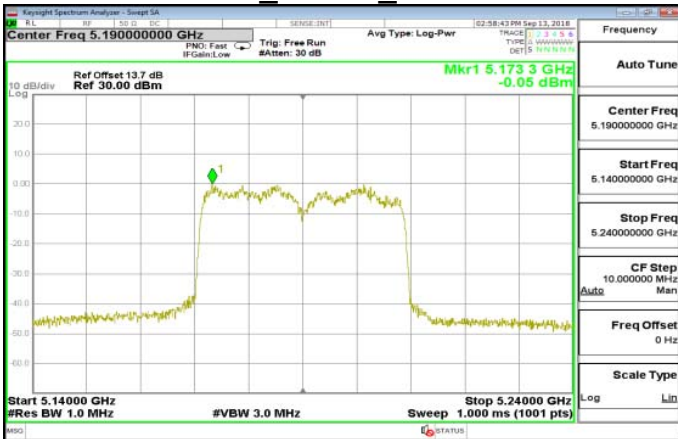


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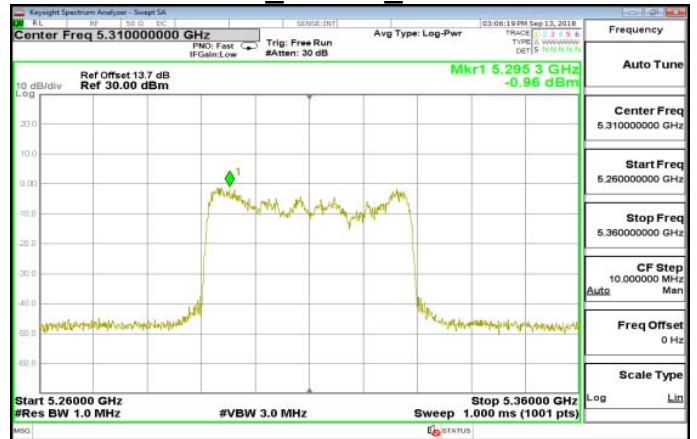
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802.11n\_40MHz\_5190MHz



802.11n\_40MHz\_5310MHz



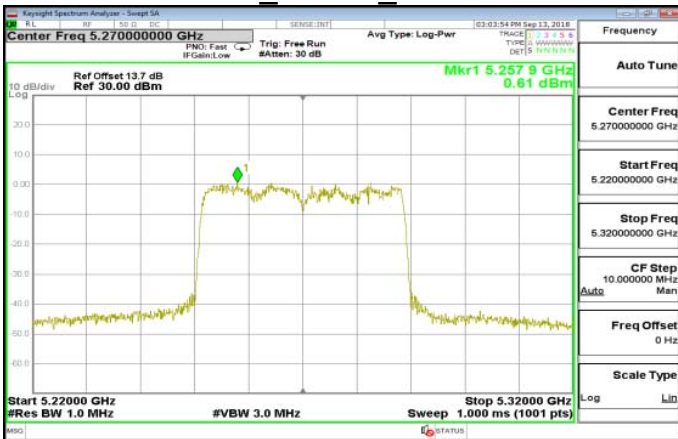
802.11n\_40MHz\_5230MHz



802.11n\_40MHz\_5510MHz



802.11n\_40MHz\_5270MHz



802.11n\_40MHz\_5550MHz



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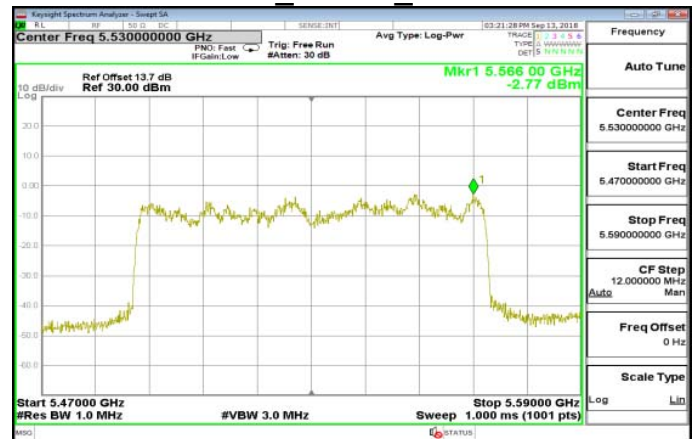
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802.11n 40MHz 5670MHz



802.11ac 80MHz 5530MHz



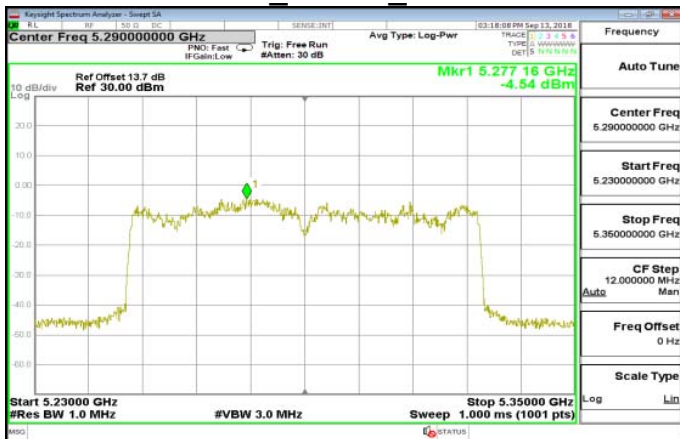
802.11ac 80MHz 5210MHz



802.11ac 80MHz 5610MHz



802.11ac 80MHz 5290MHz



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## 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

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

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBµV/m)	AV 54 (dBµV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
<p>*1 beyond 75 MHz or more above of the bandedge.            *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.            *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.            *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>		

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

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

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

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB $\mu$ V/m) = 20 log Emission level (dB $\mu$ V/m)

## 11.2 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL 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	09/26/2017	09/25/2018
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	ESC17	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 Instruments	EMC184045B	980135	10/27/2017	10/26/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2018	01/01/2019
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2018	01/01/2019
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2018	01/01/2019
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2018	01/01/2019
Notebook	Lenovo	T440P	P0000564	N/A	N/A

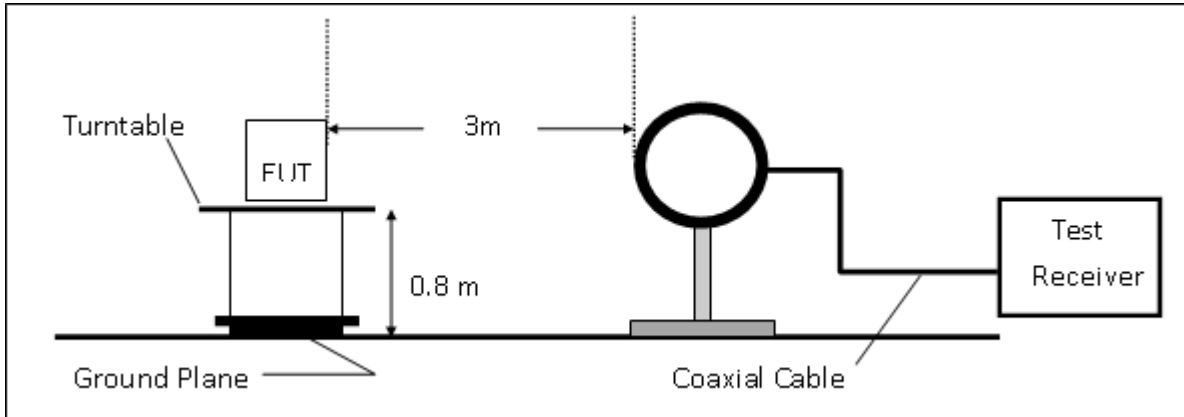
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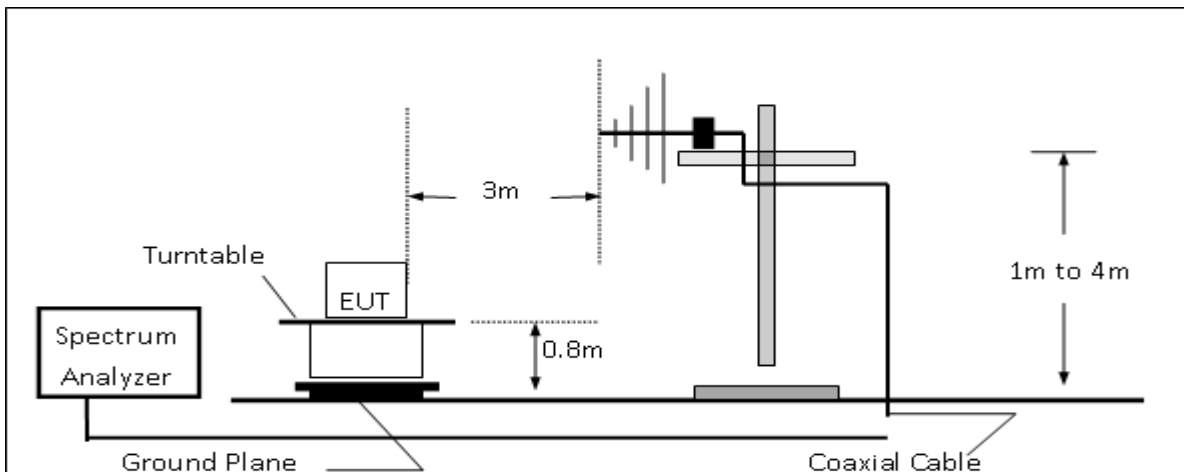
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### 11.3 Test SET-UP

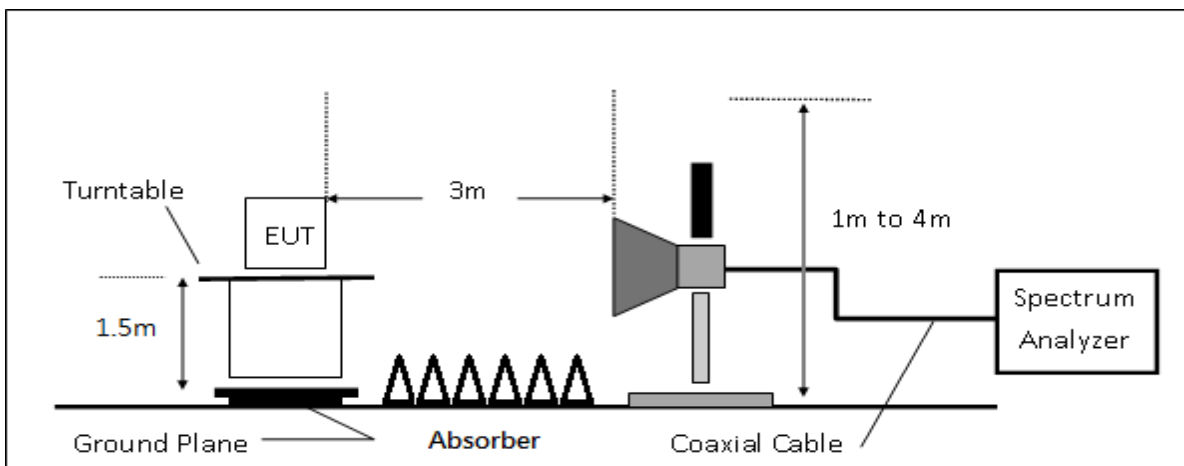
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
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	FS = Field Strength	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(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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

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

### 11.7 Measurement Result

Refer to next page for tabular data sheets.

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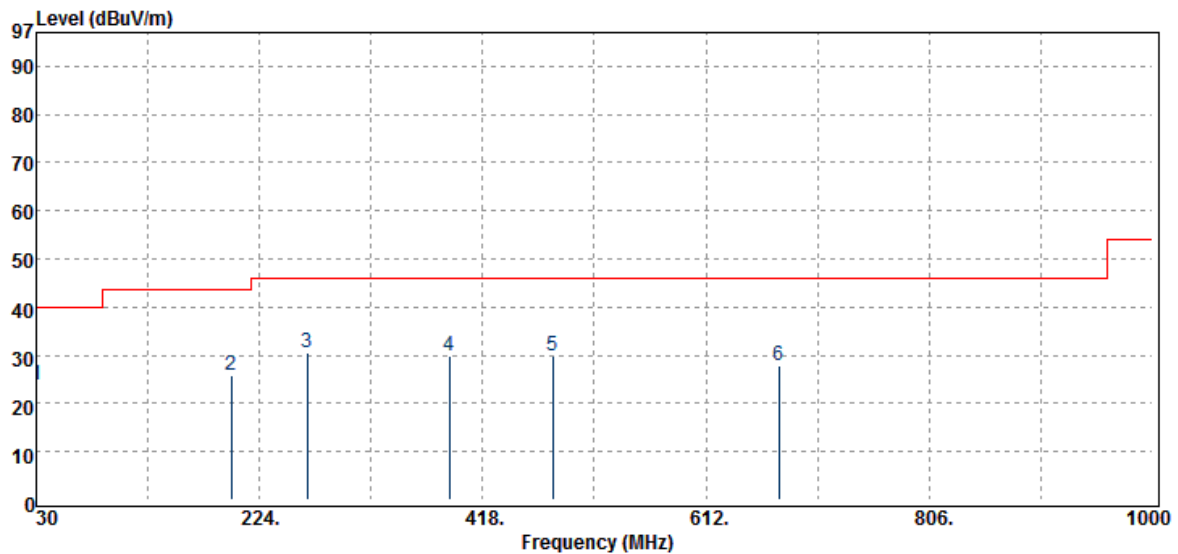
## Radiated Spurious Emission Measurement Result

### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
30.00	Peak	32.73	-8.96	23.77	40.00	-16.23
199.75	Peak	35.05	-9.26	25.79	43.50	-17.71
265.71	Peak	37.50	-6.80	30.70	46.00	-15.30
388.90	Peak	33.59	-3.71	29.88	46.00	-16.12
479.11	Peak	31.94	-2.10	29.84	46.00	-16.16
675.05	Peak	26.64	1.37	28.01	46.00	-17.99

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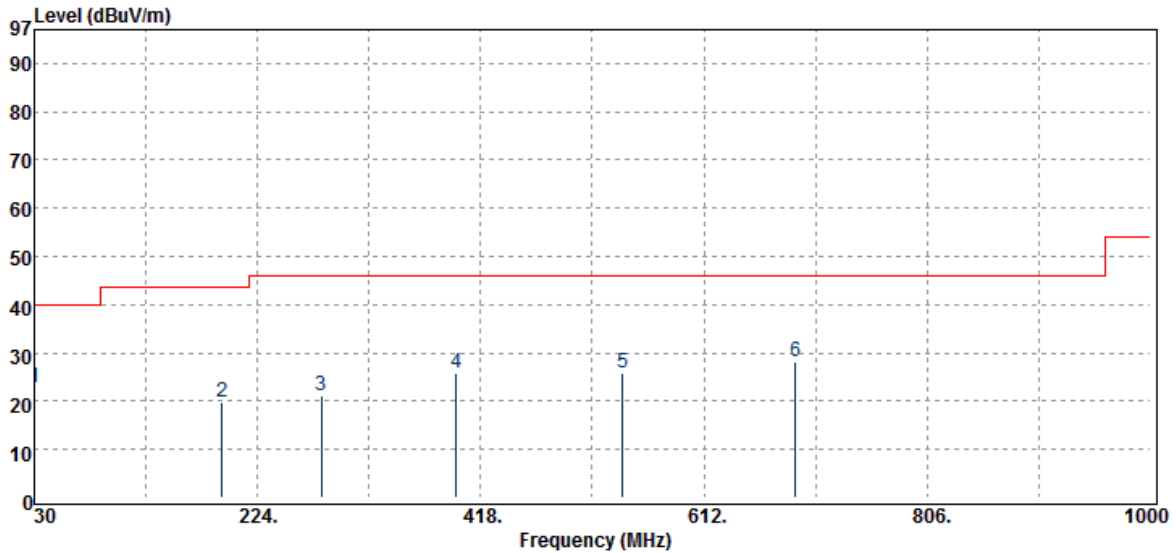
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Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
30.00	Peak	31.89	-8.96	22.93	40.00	-17.07
192.96	Peak	28.72	-9.06	19.66	43.50	-23.84
279.29	Peak	27.39	-6.17	21.22	46.00	-24.78
396.66	Peak	29.05	-3.36	25.69	46.00	-20.31
541.19	Peak	27.27	-1.40	25.87	46.00	-20.13
691.54	Peak	26.70	1.57	28.27	46.00	-17.73

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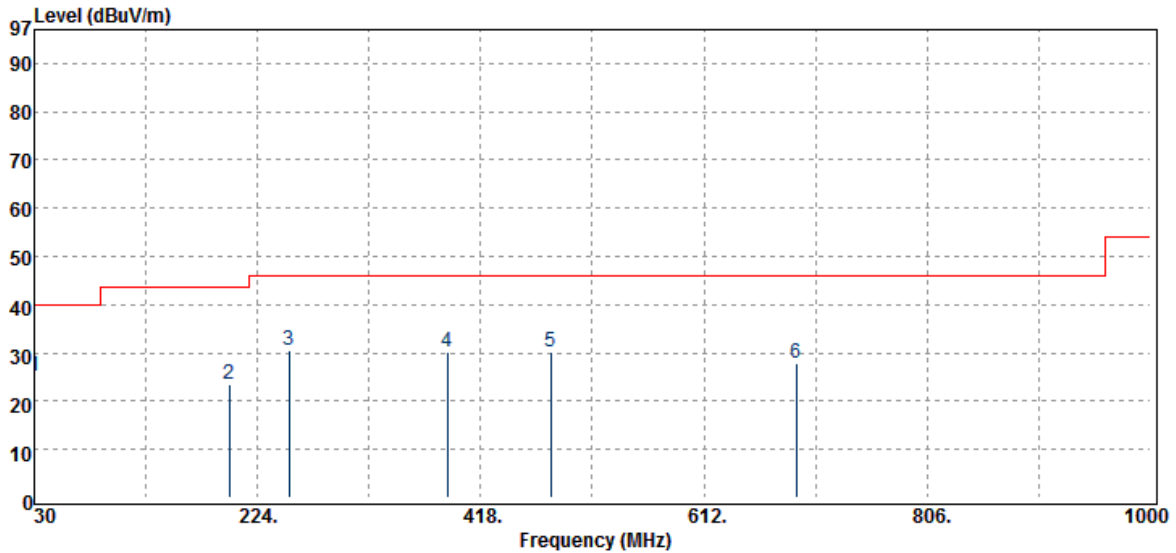
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**802.11a 5250~5350 MHz**

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

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.00	Peak	34.12	-8.96	25.16	40.00	-14.84
199.75	Peak	32.71	-9.26	23.45	43.50	-20.05
251.16	Peak	37.99	-7.34	30.65	46.00	-15.35
388.90	Peak	33.87	-3.71	30.16	46.00	-15.84
479.11	Peak	32.29	-2.10	30.19	46.00	-15.81
692.51	Peak	26.45	1.37	27.82	46.00	-18.18

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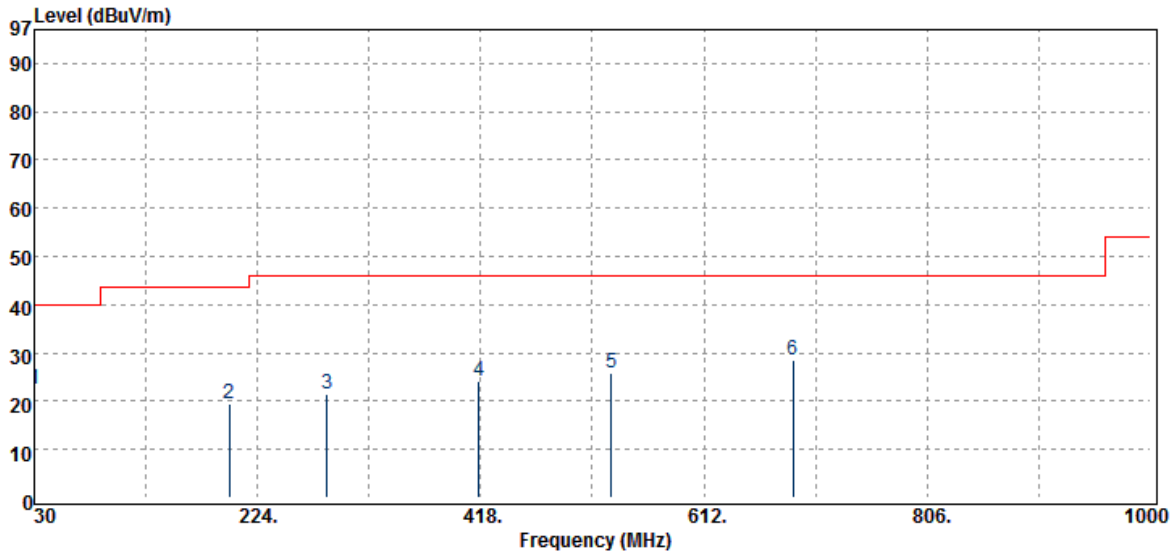
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Operation Band :802.11aB2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.00	Peak	31.59	-8.96	22.63	40.00	-17.37
199.75	Peak	28.61	-9.26	19.35	43.50	-24.15
284.14	Peak	27.45	-6.00	21.45	46.00	-24.55
416.06	Peak	27.23	-2.91	24.32	46.00	-21.68
531.49	Peak	27.41	-1.41	26.00	46.00	-20.00
689.60	Peak	26.75	1.88	28.63	46.00	-17.37

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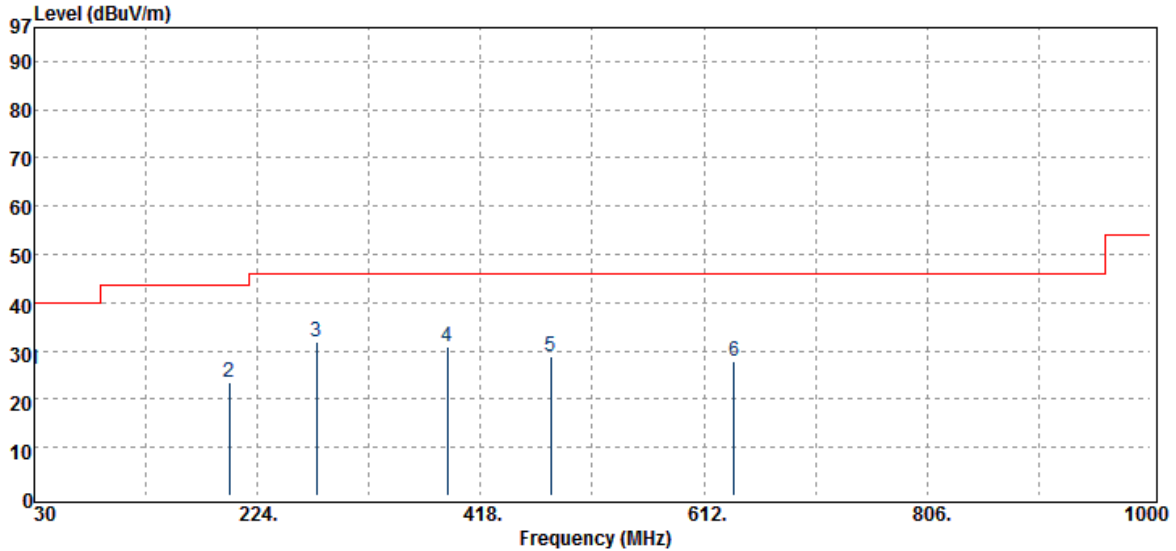
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**802.11a, 5470~5725 MHz**

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

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.00	Peak	35.00	-8.96	26.04	40.00	-13.96
199.75	Peak	32.75	-9.26	23.49	43.50	-20.01
275.41	Peak	38.20	-6.38	31.82	46.00	-14.18
388.90	Peak	34.59	-3.71	30.88	46.00	-15.12
479.11	Peak	31.11	-2.10	29.01	46.00	-16.99
638.19	Peak	27.04	0.76	27.80	46.00	-18.20

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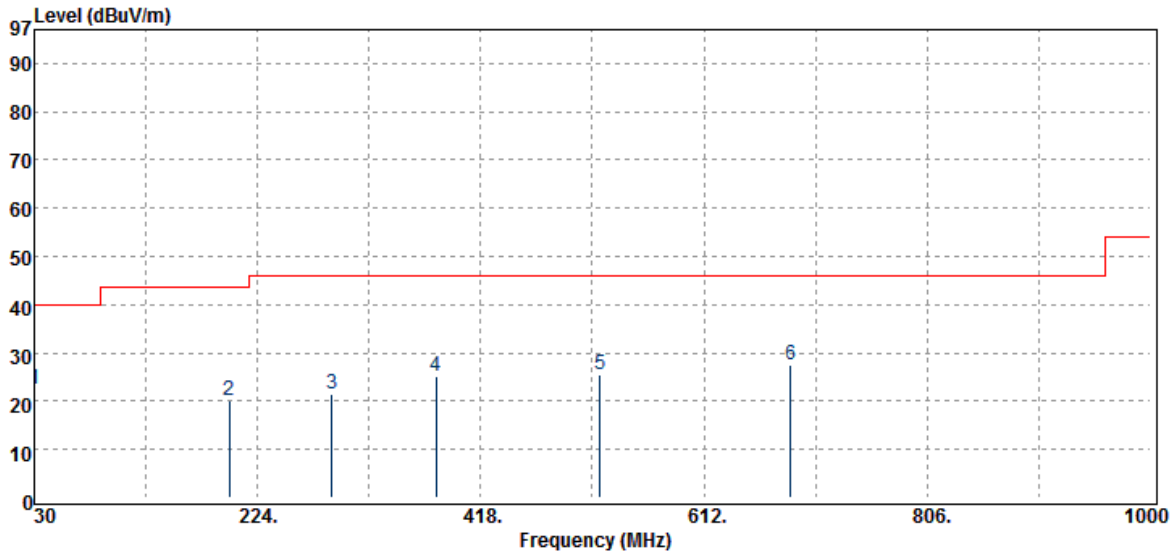
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Operation Band :802.11aB3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.00	Peak	31.41	-8.96	22.45	40.00	-17.55
199.75	Peak	29.51	-9.26	20.25	43.50	-23.25
288.99	Peak	27.40	-5.86	21.54	46.00	-24.46
379.20	Peak	29.02	-3.82	25.20	46.00	-20.80
521.79	Peak	26.95	-1.50	25.45	46.00	-20.55
687.66	Peak	25.87	1.76	27.63	46.00	-18.37

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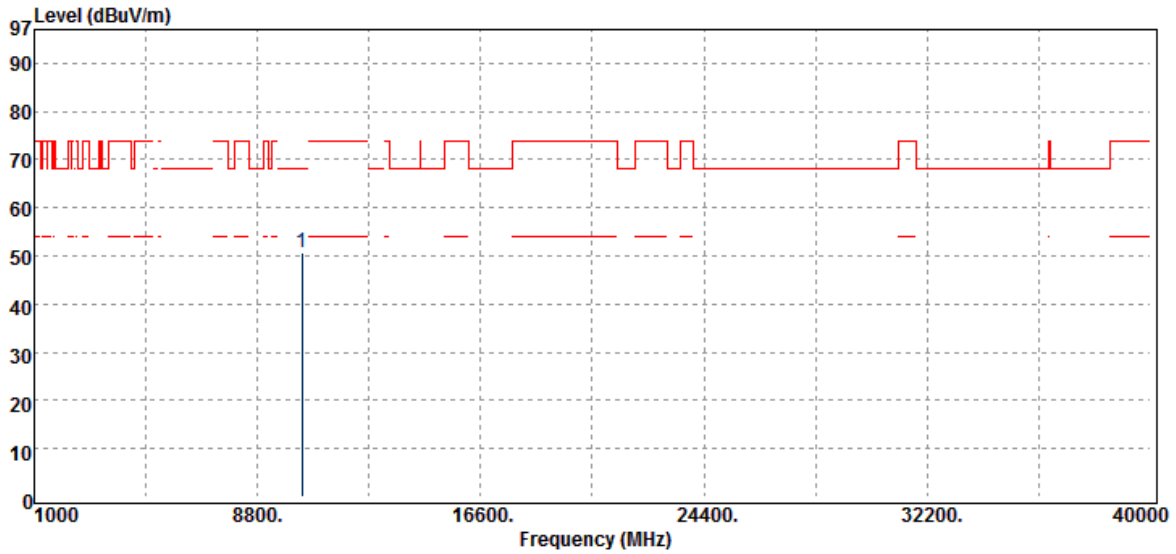
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**Above 1GHz Worst-Case Data:**

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

Operation Band	:802.11aB1	Test Date	:2018-09-24
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	31.12	19.71	50.83	68.20	-17.37

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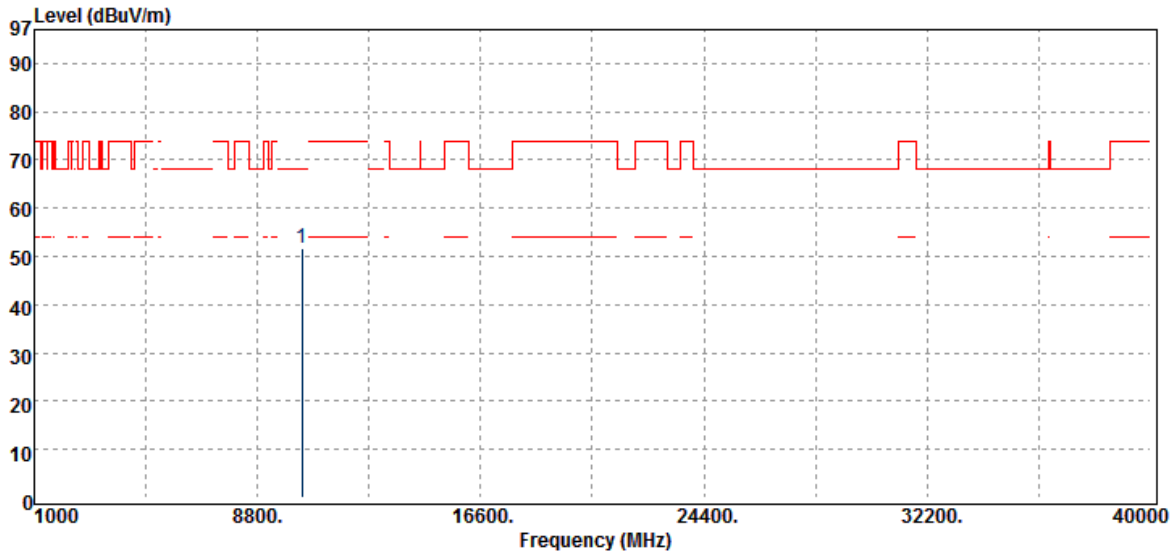
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Operation Band :802.11aB1  
Fundamental Frequency :5180 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	31.91	19.71	51.62	68.20	-16.58

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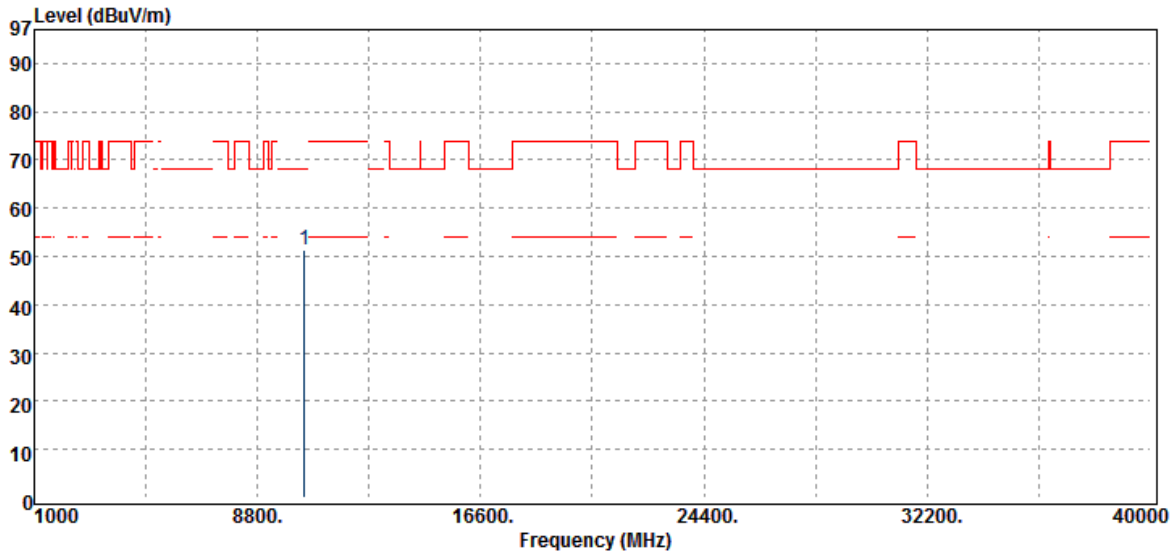
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Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	31.25	20.05	51.30	68.20	-16.90

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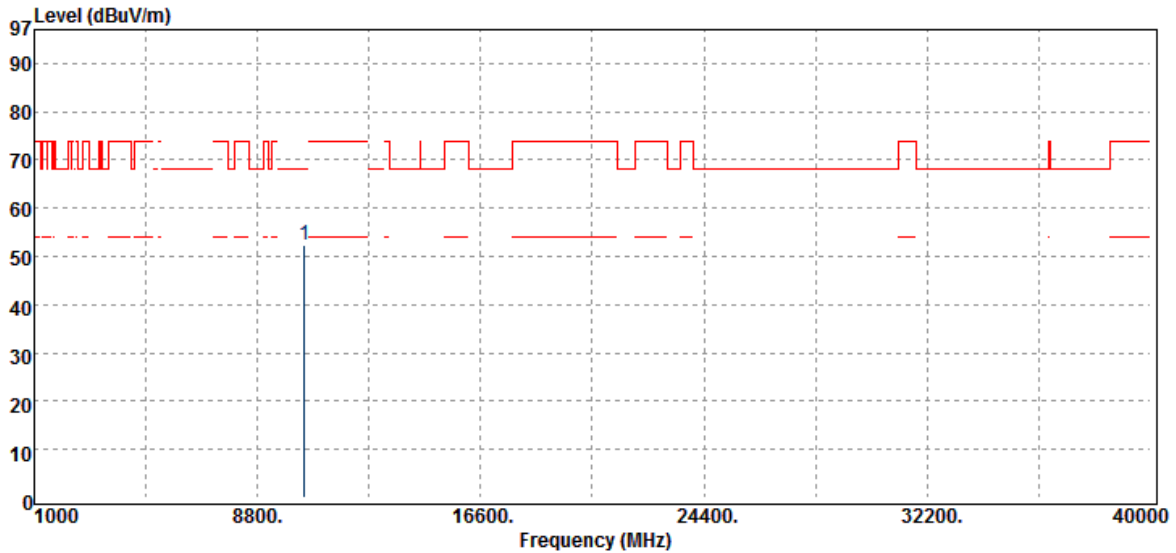
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Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	32.43	20.05	52.48	68.20	-15.72

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Operation Band	:802.11aB1	Test Date	:2018-09-24
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	30.73	20.07	50.80	68.20	-17.40

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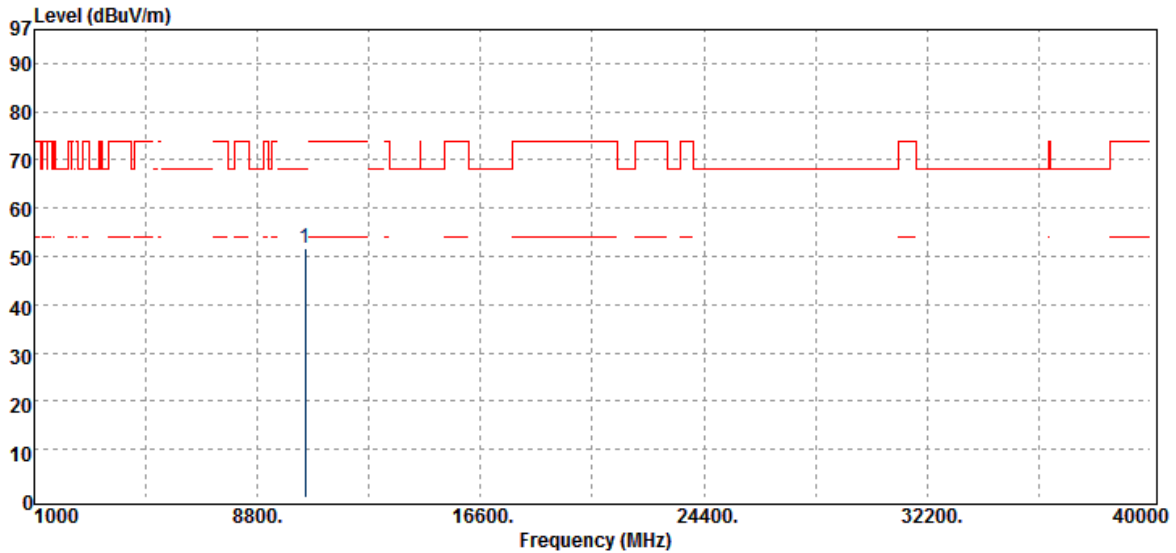
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Operation Band	:802.11aB1	Test Date	:2018-09-24
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	31.68	20.07	51.75	68.20	-16.45

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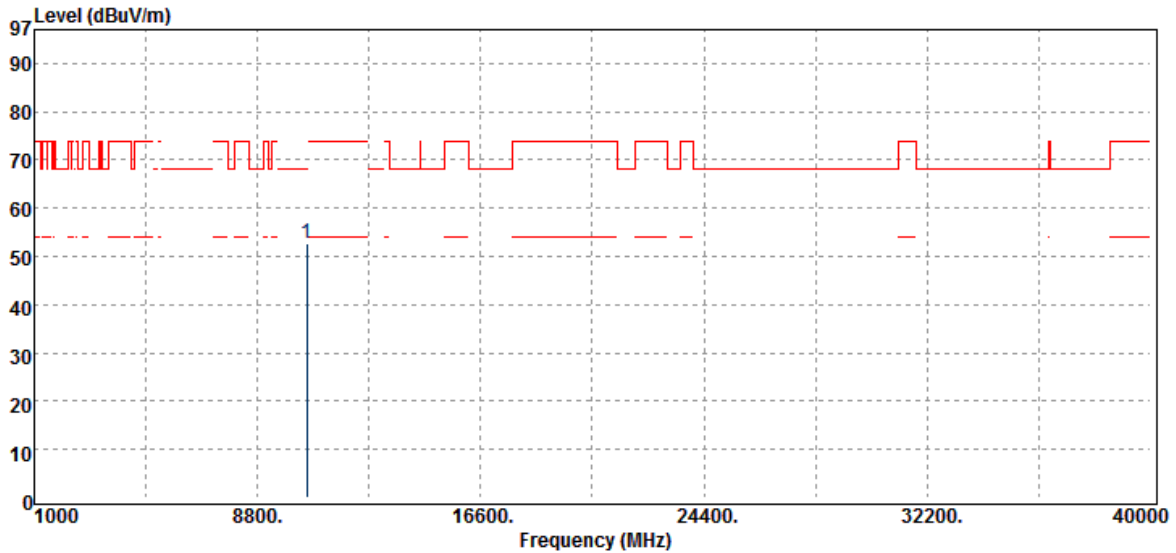
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11aB2	Test Date	:2018-09-24
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	Peak	32.63	20.00	52.63	68.20	-15.57

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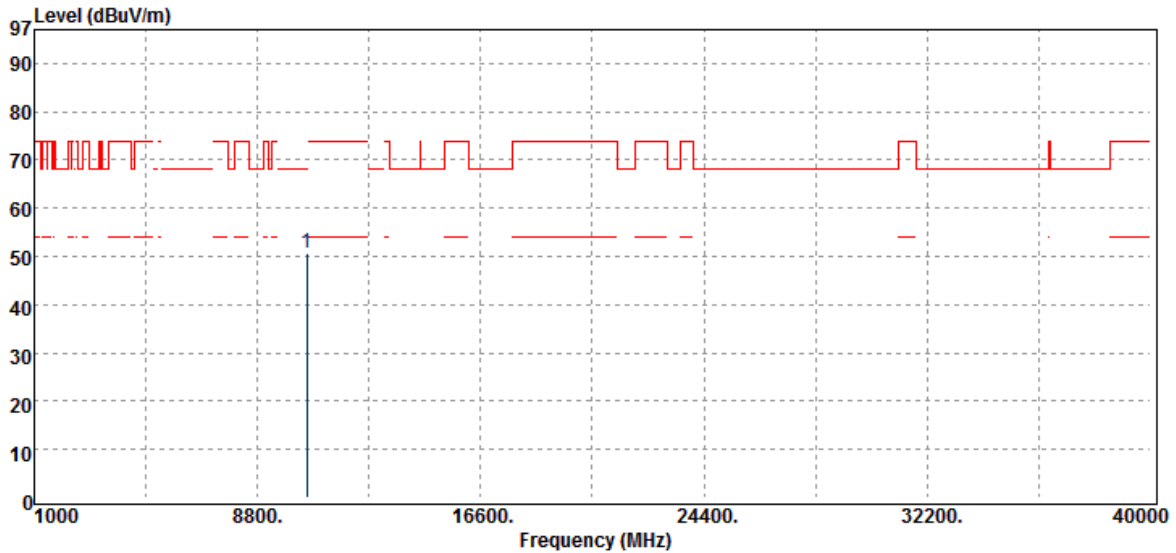
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Operation Band :802.11aB2  
Fundamental Frequency :5260 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	Peak	30.58	20.00	50.58	68.20	-17.62

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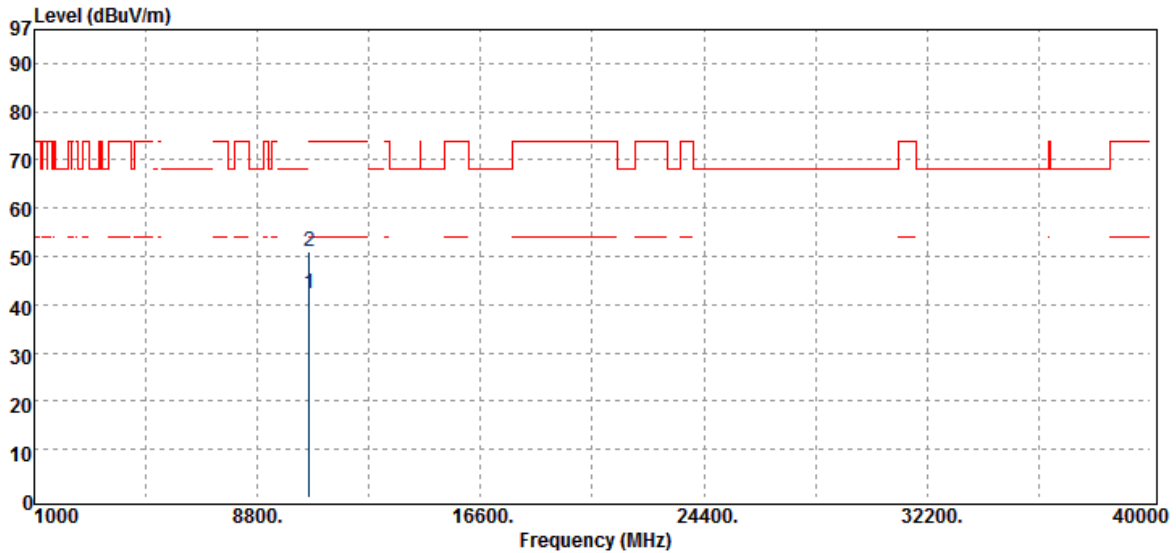
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Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	Average	22.06	20.38	42.44	54.00	-11.56
10600.00	Peak	30.68	20.38	51.06	74.00	-22.94

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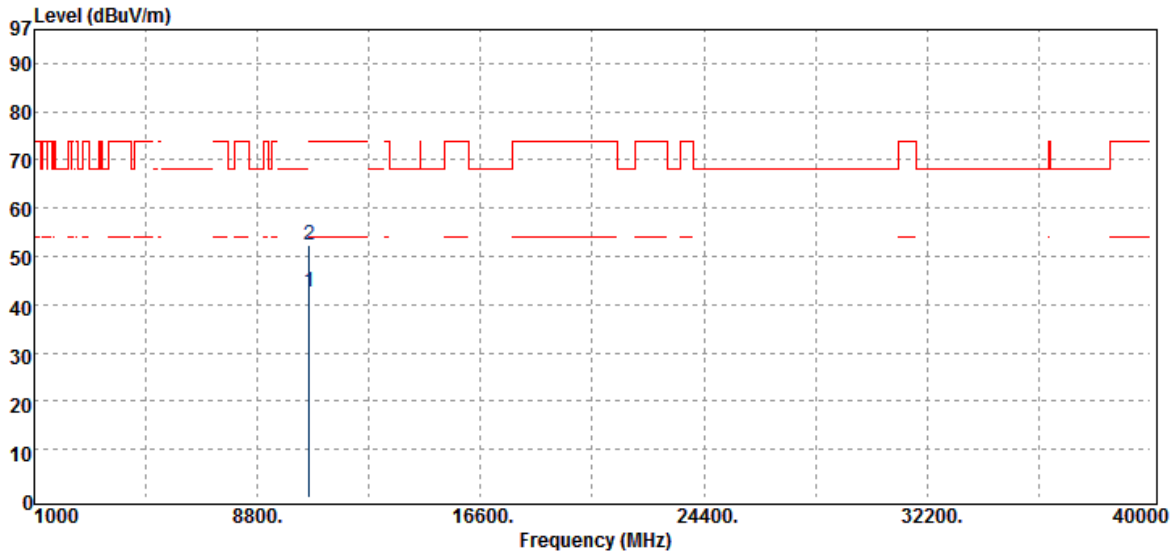
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Operation Band :802.11aB2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	Average	22.16	20.38	42.54	54.00	-11.46
10600.00	Peak	32.02	20.38	52.40	74.00	-21.60

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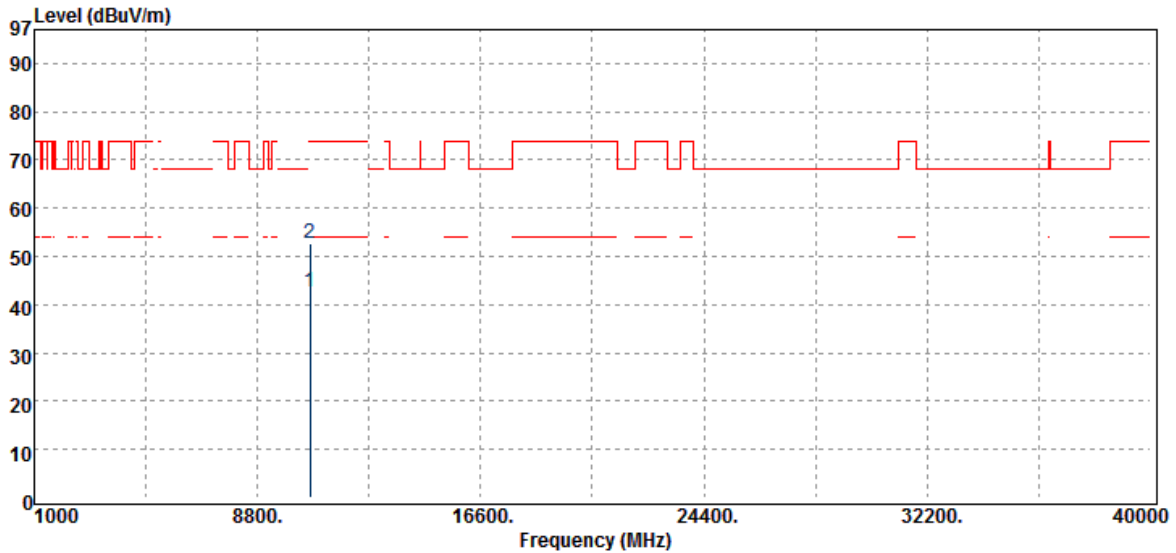
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	Average	22.20	20.44	42.64	54.00	-11.36
10640.00	Peak	32.11	20.44	52.55	74.00	-21.45

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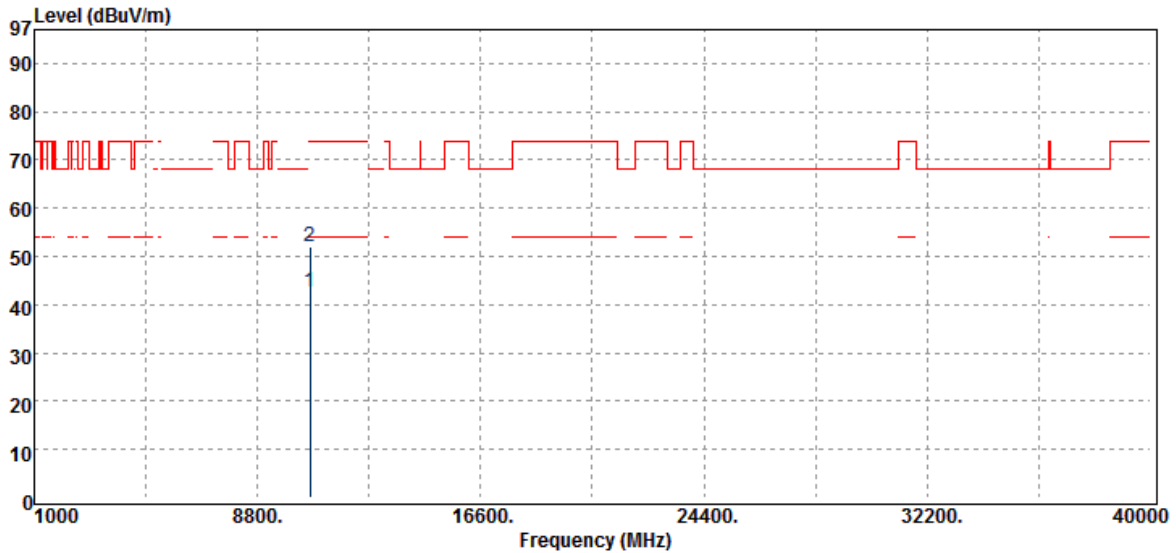
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Operation Band	:802.11aB2	Test Date	:2018-09-24
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	Average	22.27	20.44	42.71	54.00	-11.29
10640.00	Peak	31.74	20.44	52.18	74.00	-21.82

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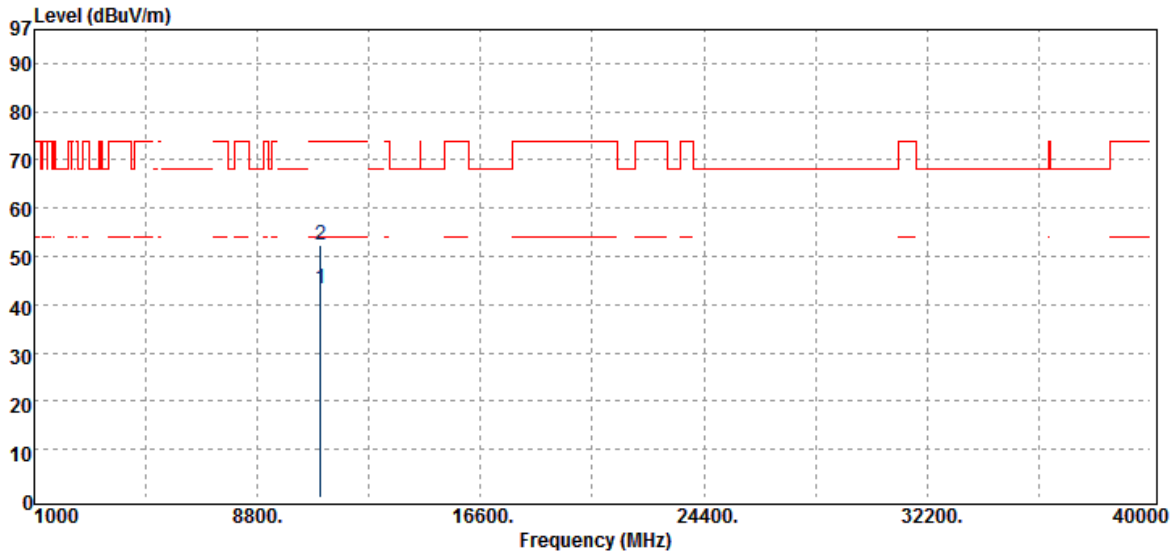
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11aB3	Test Date	:2018-09-24
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	Average	22.09	21.37	43.46	54.00	-10.54
11000.00	Peak	31.12	21.37	52.49	74.00	-21.51

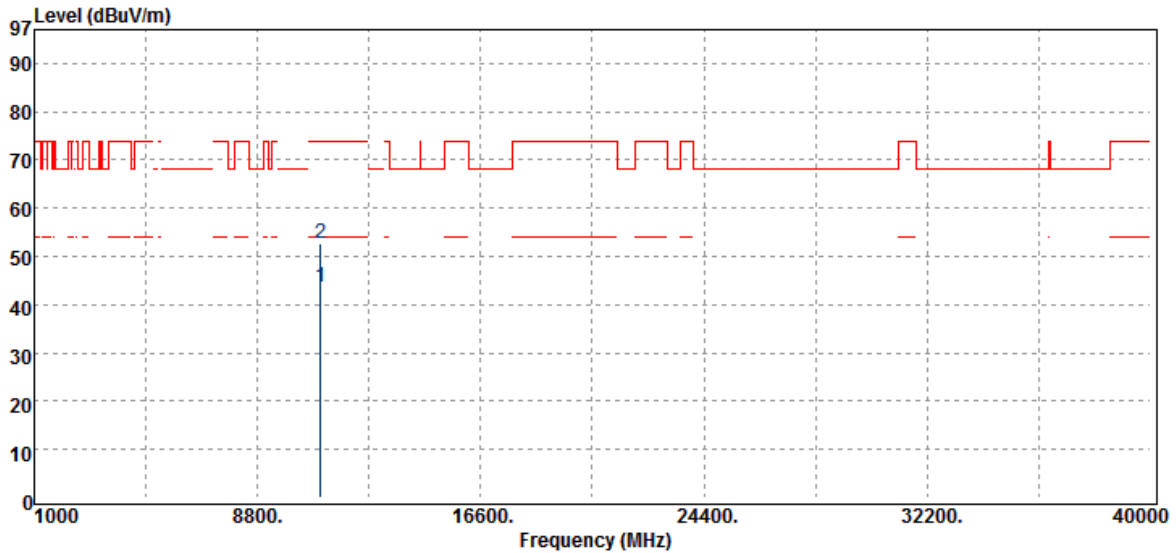
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Operation Band :802.11aB3  
Fundamental Frequency :5500 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	Average	22.21	21.37	43.58	54.00	-10.42
11000.00	Peak	31.21	21.37	52.58	74.00	-21.42

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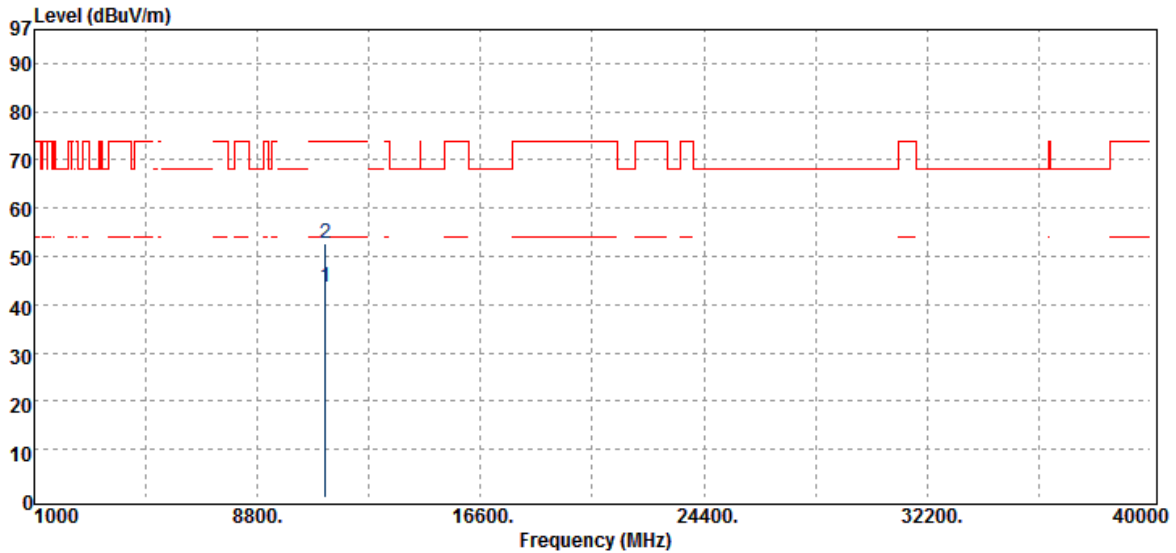
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Operation Band :802.11aB3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	Average	22.13	21.51	43.64	54.00	-10.36
11160.00	Peak	31.16	21.51	52.67	74.00	-21.33

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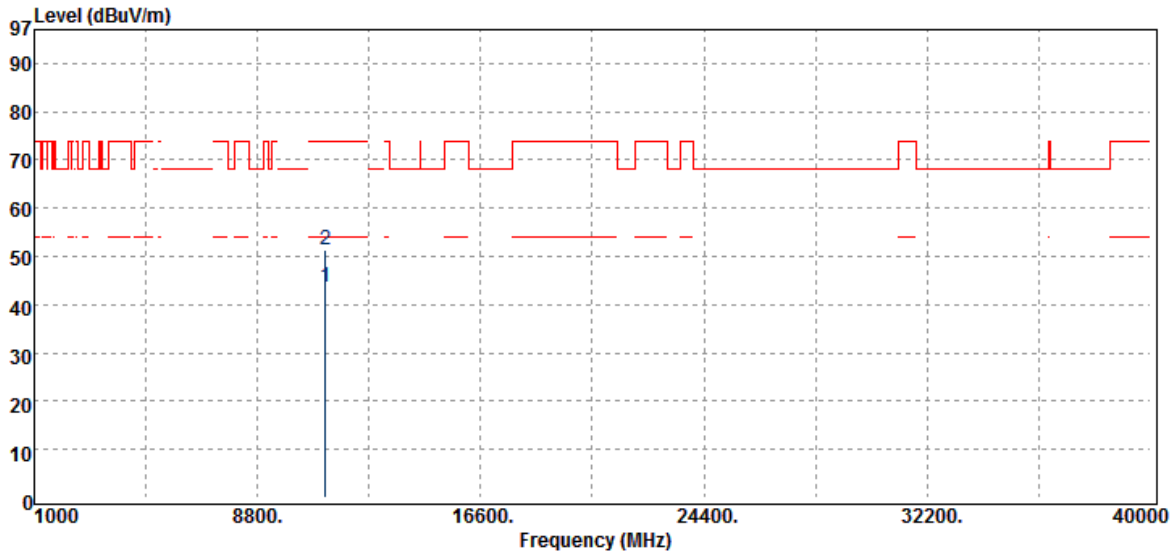
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Operation Band :802.11aB3  
 Fundamental Frequency :5580 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	Average	22.25	21.51	43.76	54.00	-10.24
11160.00	Peak	29.92	21.51	51.43	74.00	-22.57

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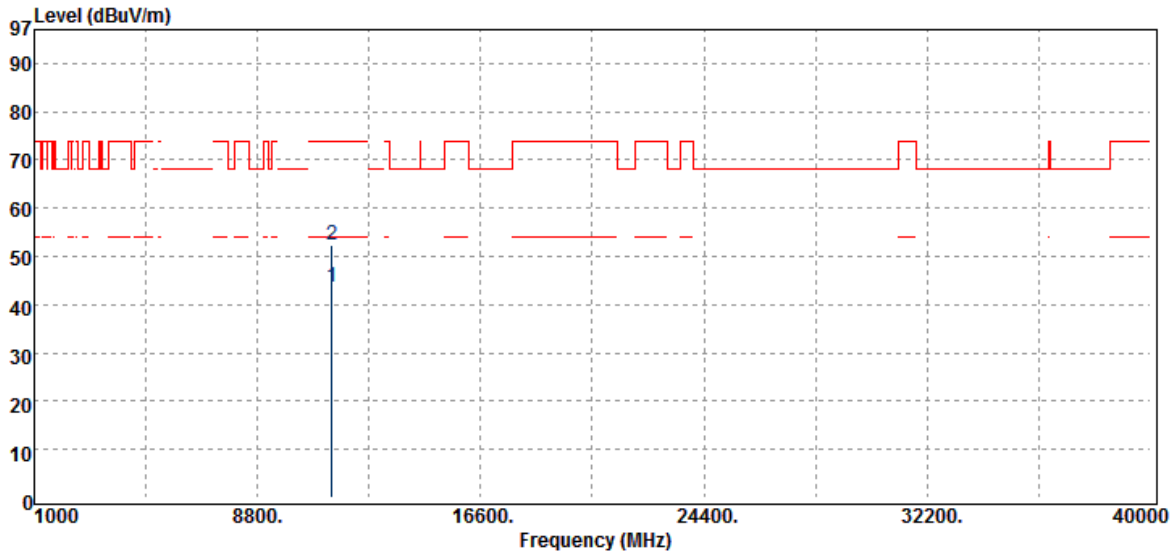
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	Average	21.88	21.62	43.50	54.00	-10.50
11400.00	Peak	30.81	21.62	52.43	74.00	-21.57

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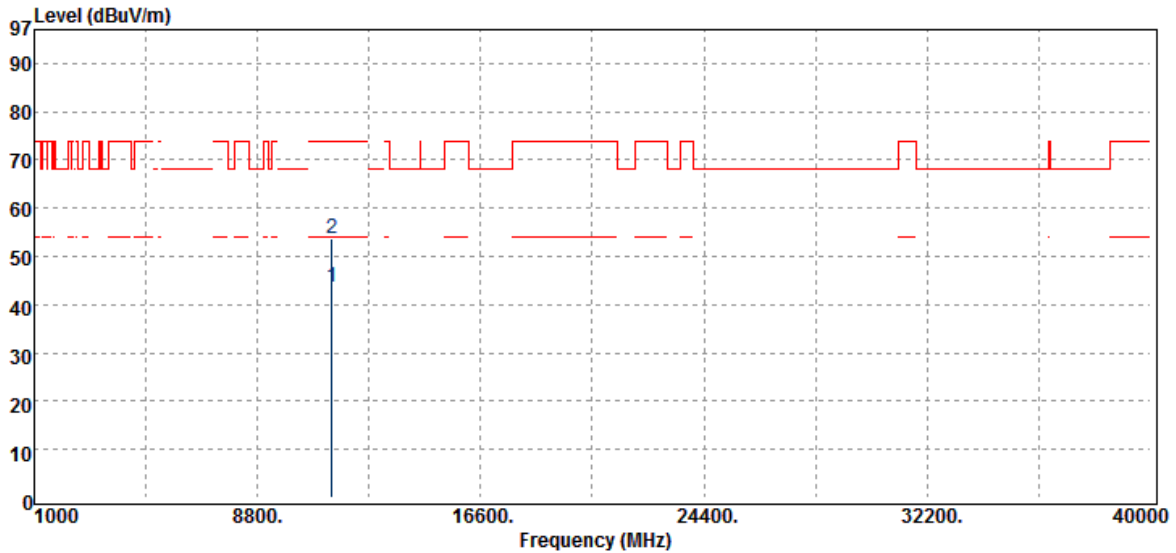
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	Average	22.09	21.62	43.71	54.00	-10.29
11400.00	Peak	32.15	21.62	53.77	74.00	-20.23

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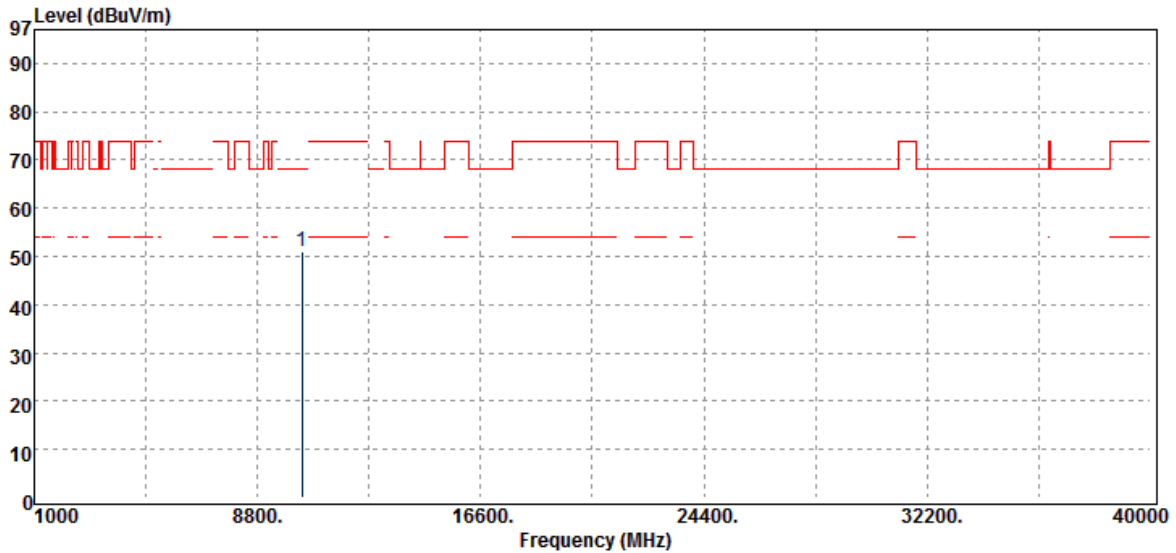
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11n20B1	Test Date	:2018-09-24
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



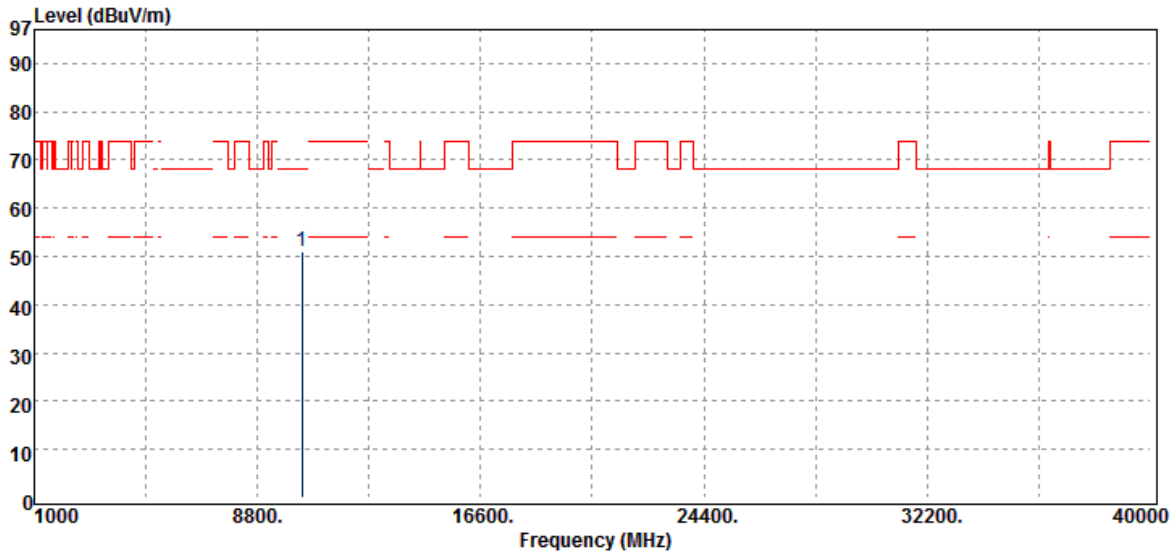
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	31.25	19.71	50.96	68.20	-17.24

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Operation Band	:802.11n20B1	Test Date	:2018-09-24
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	31.25	19.71	50.96	68.20	-17.24

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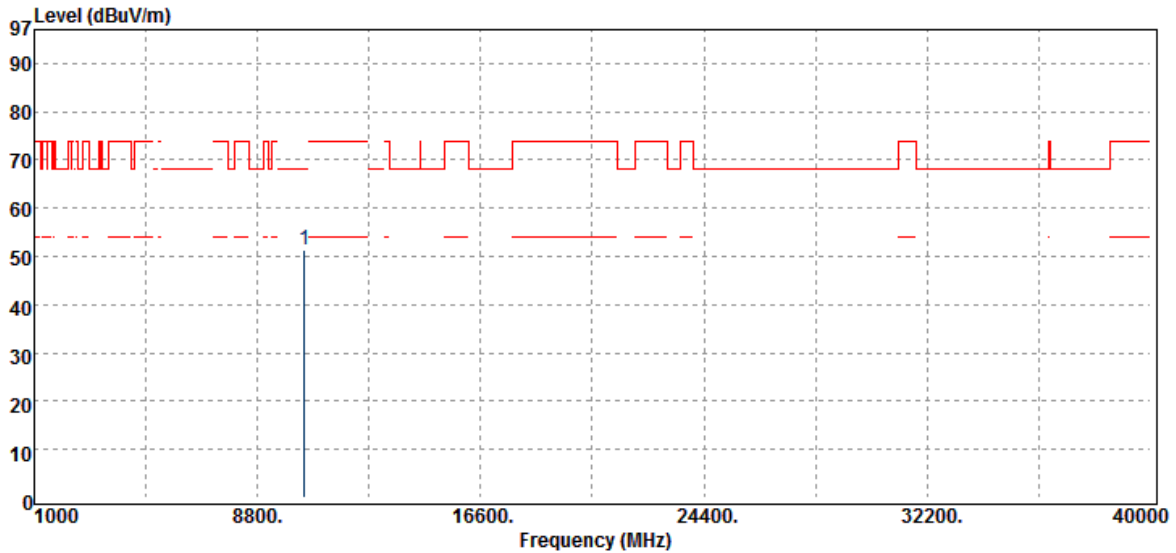
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Operation Band	:802.11n20B1	Test Date	:2018-09-24
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	31.16	20.05	51.21	68.20	-16.99

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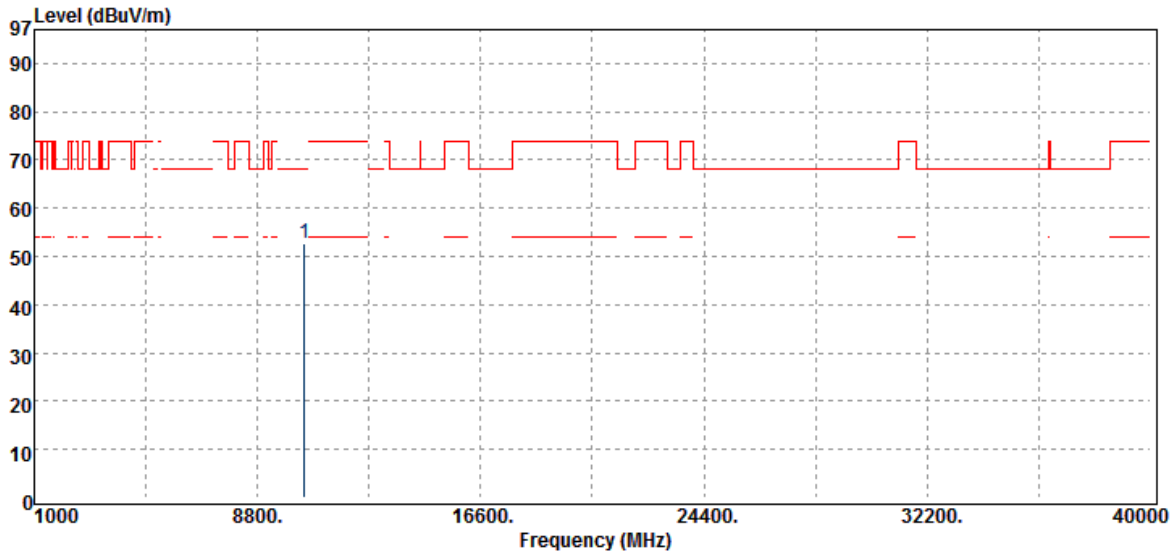
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Operation Band	:802.11n20B1	Test Date	:2018-09-24
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10440.00	Peak	32.69	20.05	52.74	68.20	-15.46

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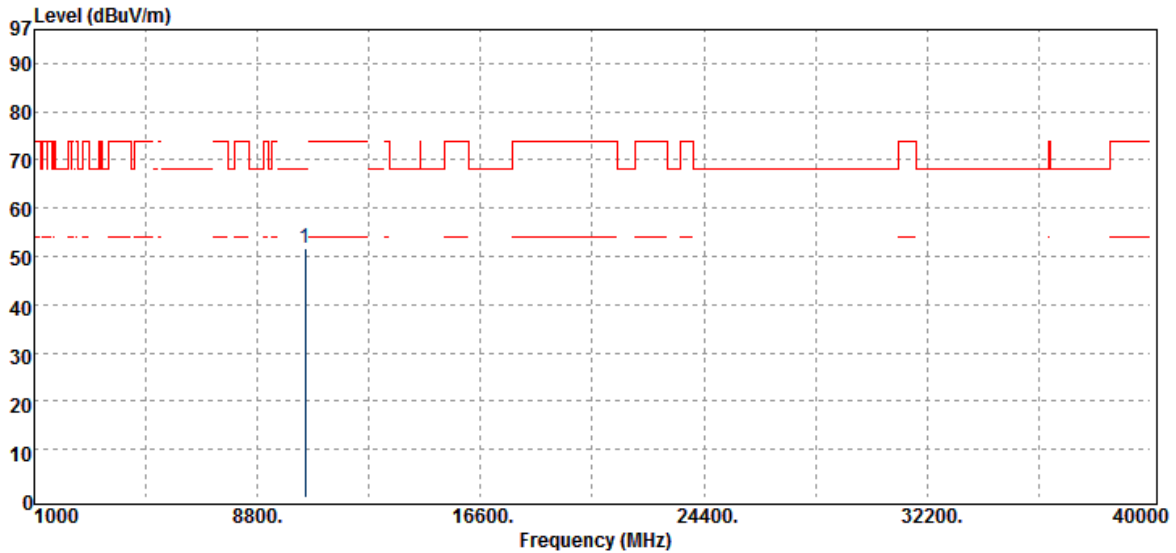
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Operation Band :802.11n20B1  
 Fundamental Frequency :5240 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	31.51	20.07	51.58	68.20	-16.62

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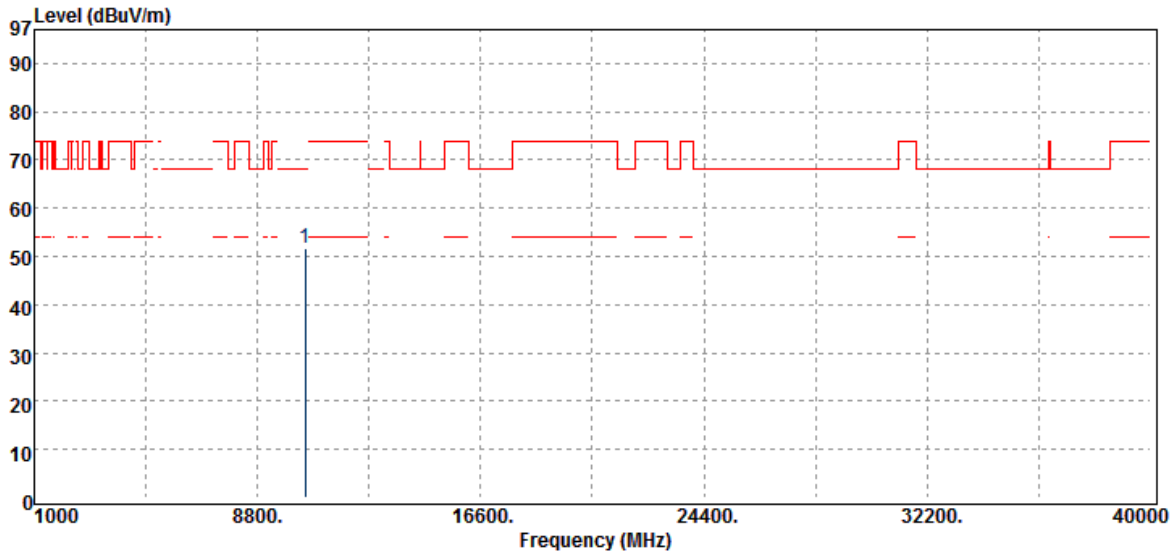
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Operation Band	:802.11n20B1	Test Date	:2018-09-24
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	Peak	31.75	20.07	51.82	68.20	-16.38

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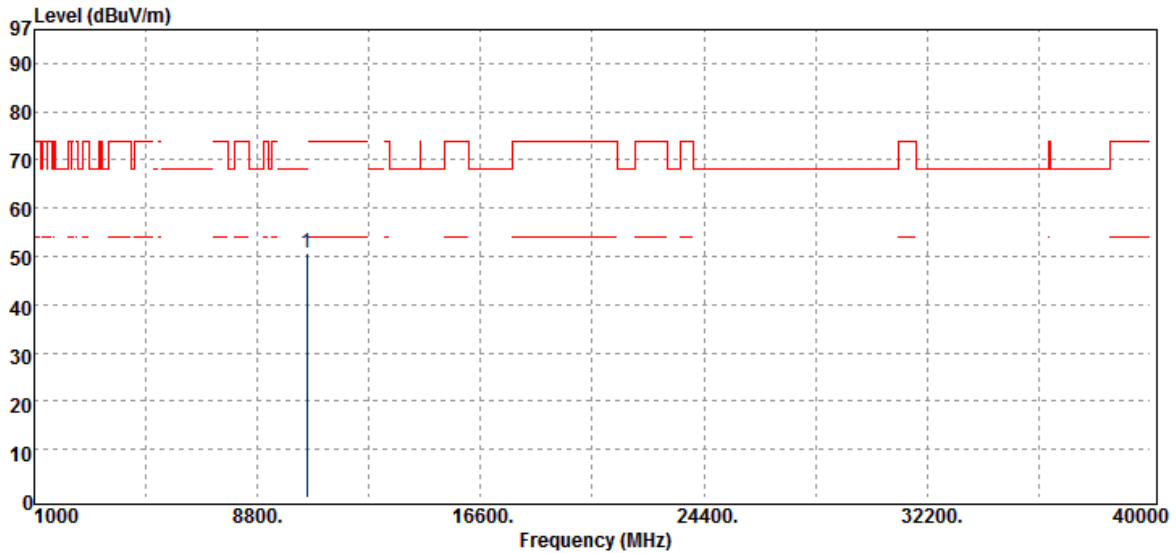
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band	:802.11n20B2	Test Date	:2018-09-24
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	Peak	30.73	20.00	50.73	68.20	-17.47

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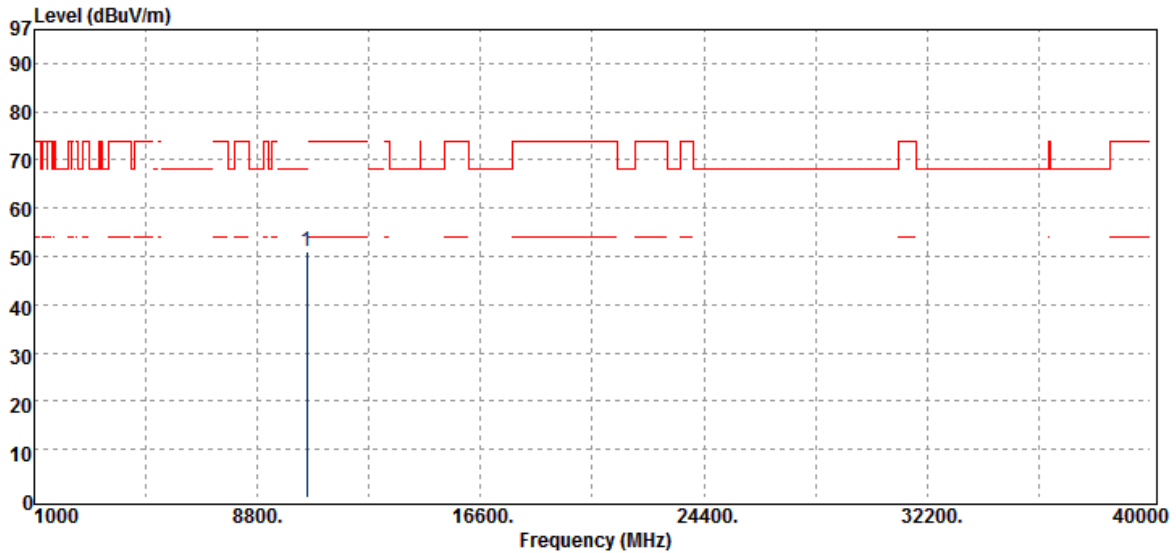
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Operation Band	:802.11n20B2	Test Date	:2018-09-24
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	Peak	31.13	20.00	51.13	68.20	-17.07

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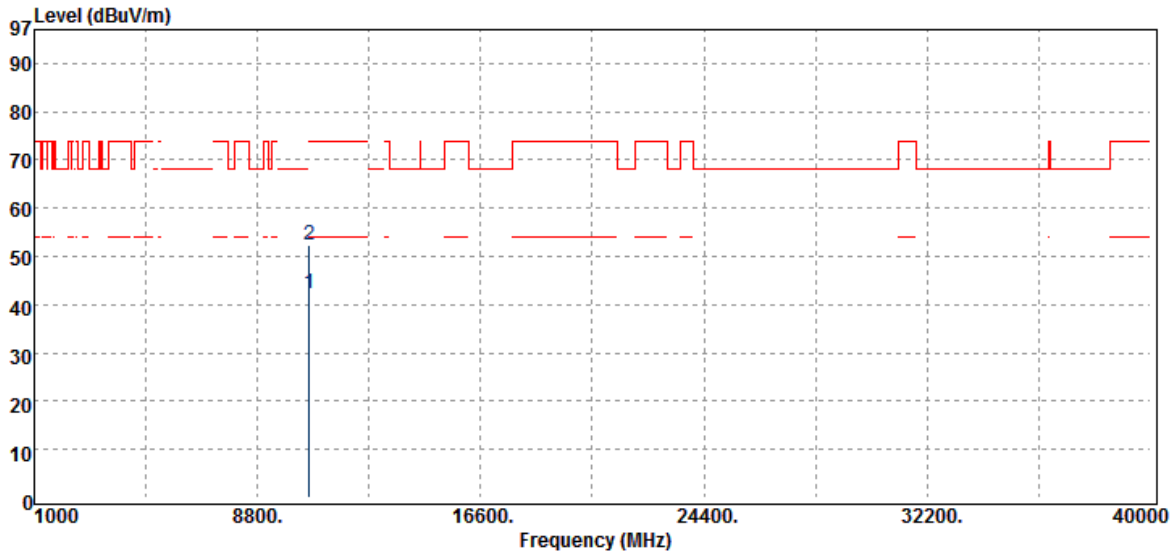
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Operation Band	:802.11n20B2	Test Date	:2018-09-24
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	Average	22.07	20.38	42.45	54.00	-11.55
10600.00	Peak	32.05	20.38	52.43	74.00	-21.57

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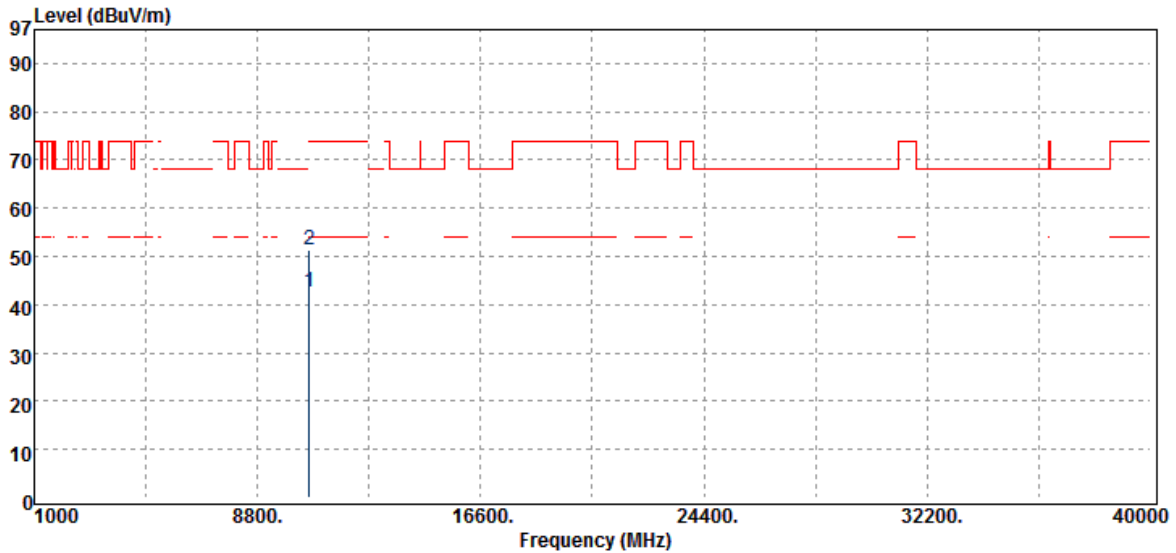
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Operation Band	:802.11n20B2	Test Date	:2018-09-24
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	Average	22.18	20.38	42.56	54.00	-11.44
10600.00	Peak	31.04	20.38	51.42	74.00	-22.58

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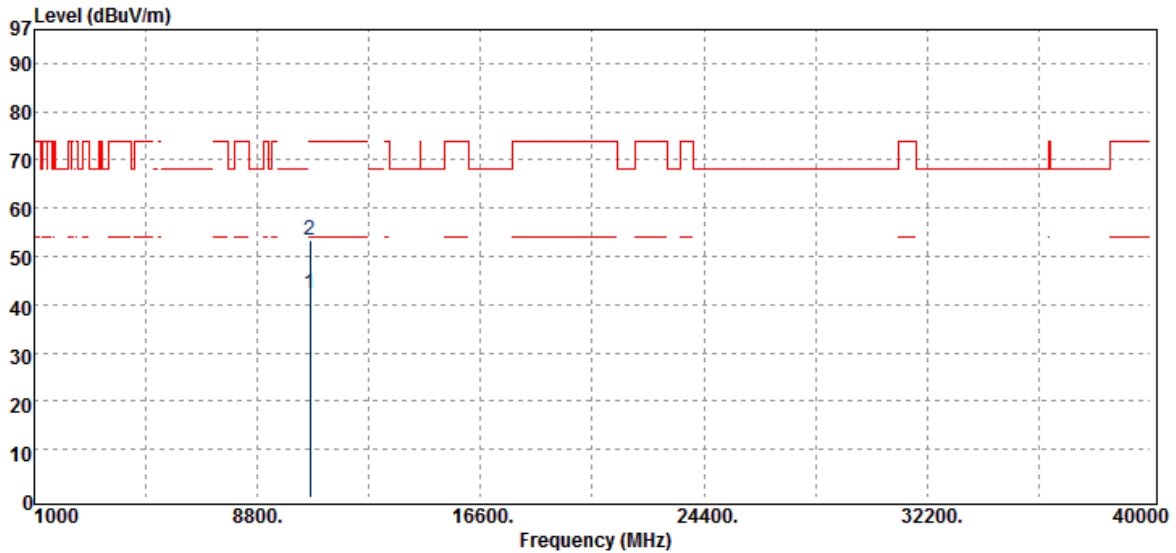
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



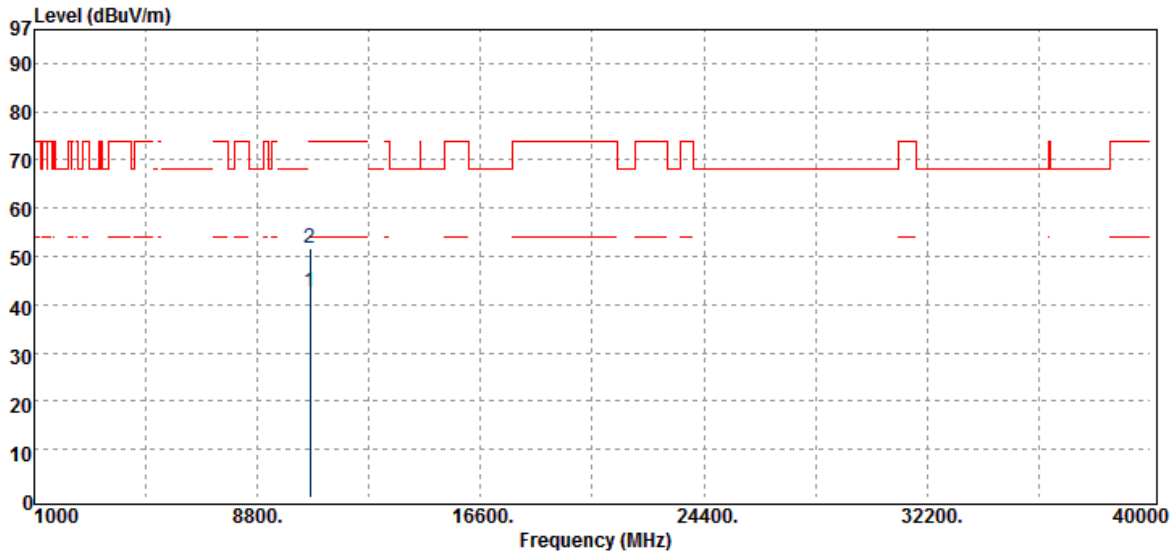
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	Average	21.97	20.44	42.41	54.00	-11.59
10640.00	Peak	32.93	20.44	53.37	74.00	-20.63

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Operation Band	:802.11n20B2	Test Date	:2018-09-24
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	Average	22.12	20.44	42.56	54.00	-11.44
10640.00	Peak	31.21	20.44	51.65	74.00	-22.35

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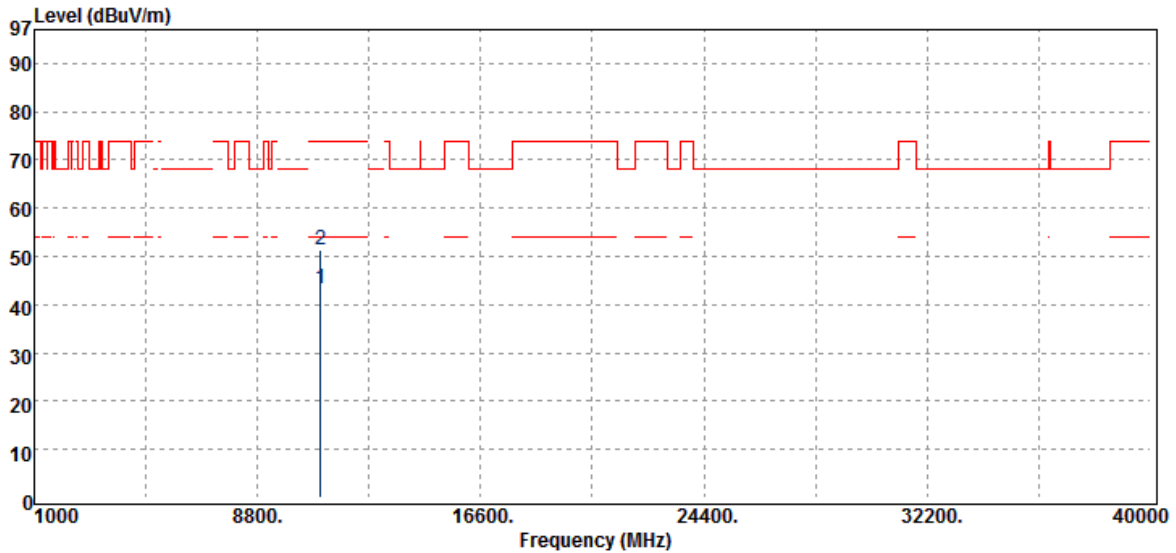
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band	:802.11n20B3	Test Date	:2018-09-24
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11000.00	Average	22.04	21.37	43.41	54.00	-10.59
11000.00	Peak	29.95	21.37	51.32	74.00	-22.68

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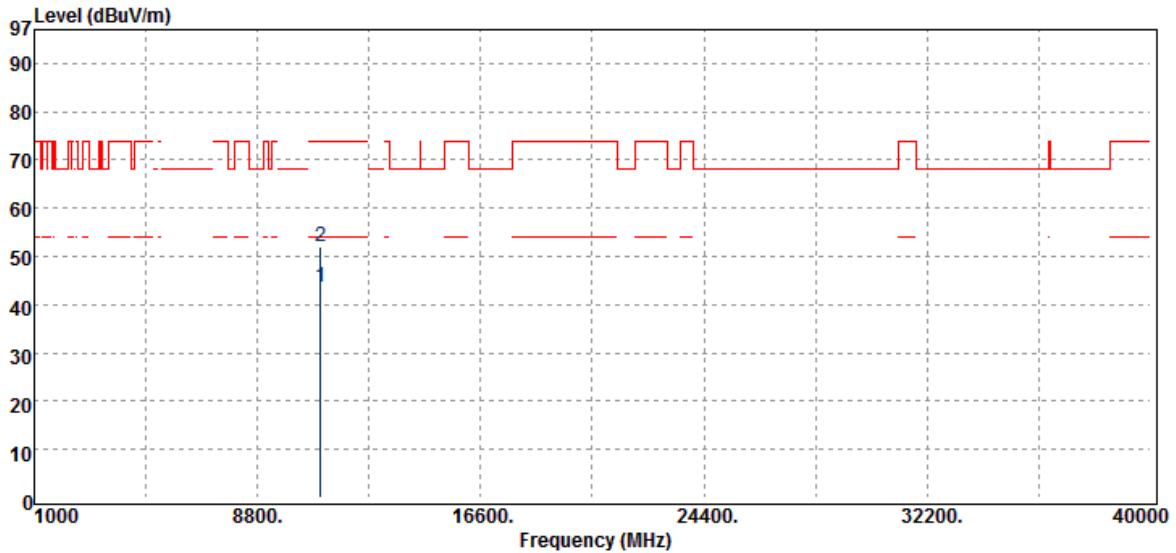
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Operation Band	:802.11n20B3	Test Date	:2018-09-24
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



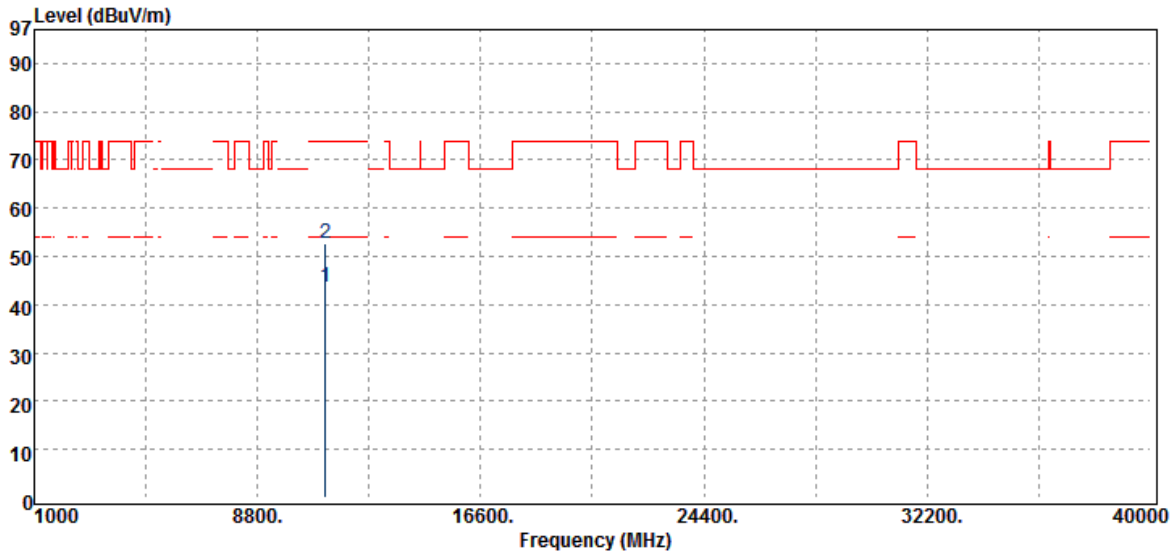
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	Average	22.28	21.37	43.65	54.00	-10.35
11000.00	Peak	30.74	21.37	52.11	74.00	-21.89

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Operation Band	:802.11n20B3	Test Date	:2018-09-24
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	Average	22.12	21.51	43.63	54.00	-10.37
11160.00	Peak	31.28	21.51	52.79	74.00	-21.21

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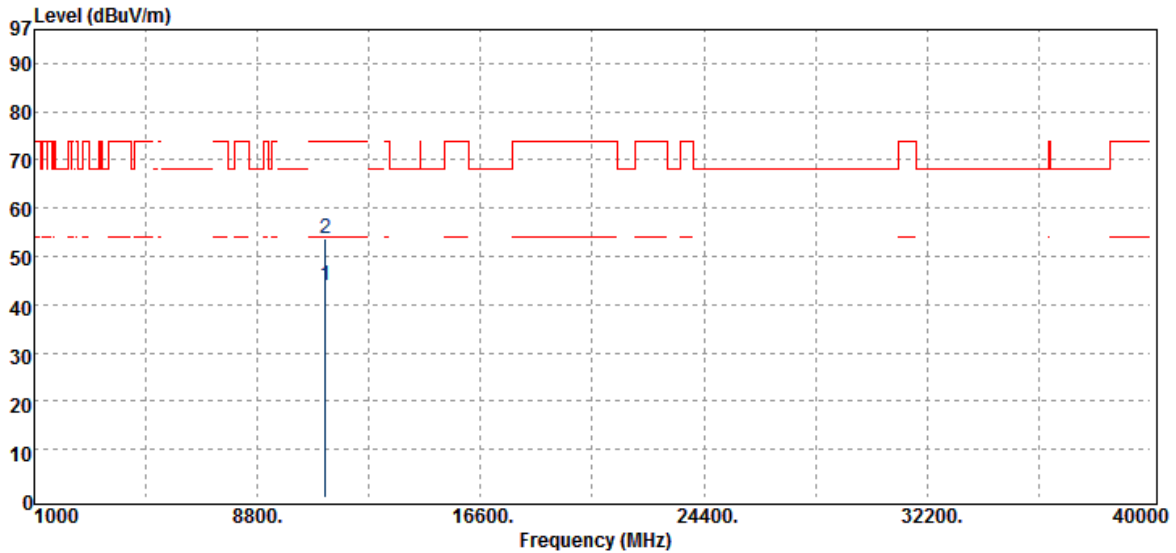
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Operation Band	:802.11n20B3	Test Date	:2018-09-24
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	Average	22.32	21.51	43.83	54.00	-10.17
11160.00	Peak	32.10	21.51	53.61	74.00	-20.39

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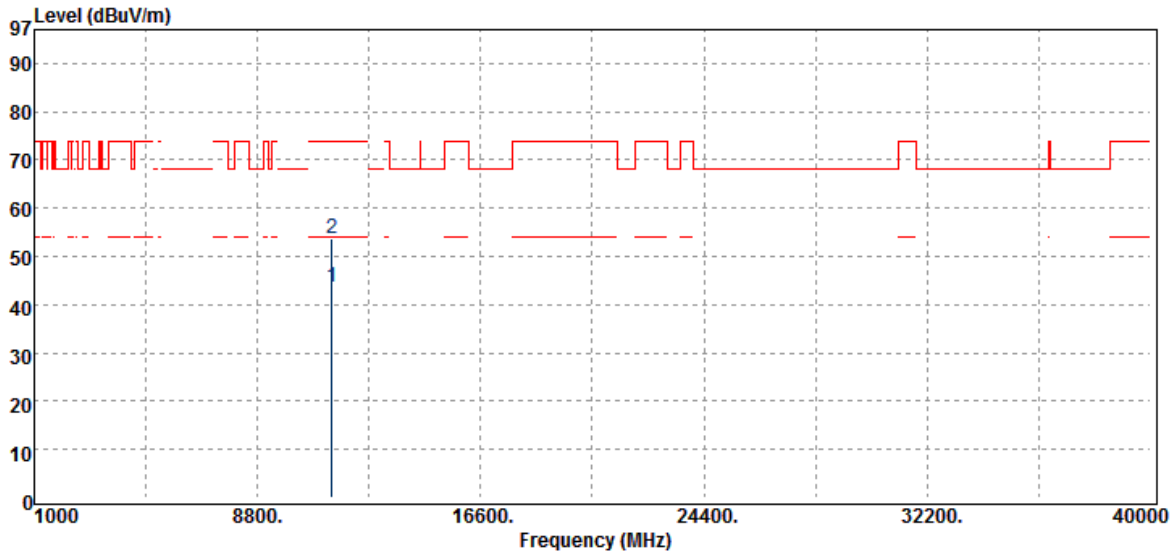
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Operation Band	:802.11n20B3	Test Date	:2018-09-24
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	Average	21.88	21.62	43.50	54.00	-10.50
11400.00	Peak	32.24	21.62	53.86	74.00	-20.14

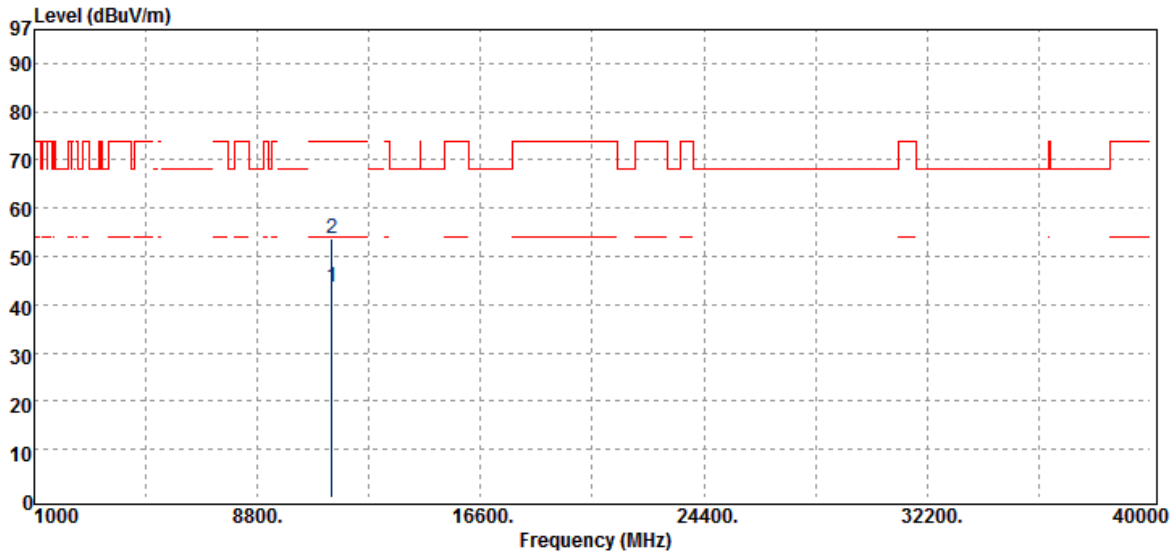
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	Average	22.18	21.62	43.80	54.00	-10.20
11400.00	Peak	31.96	21.62	53.58	74.00	-20.42

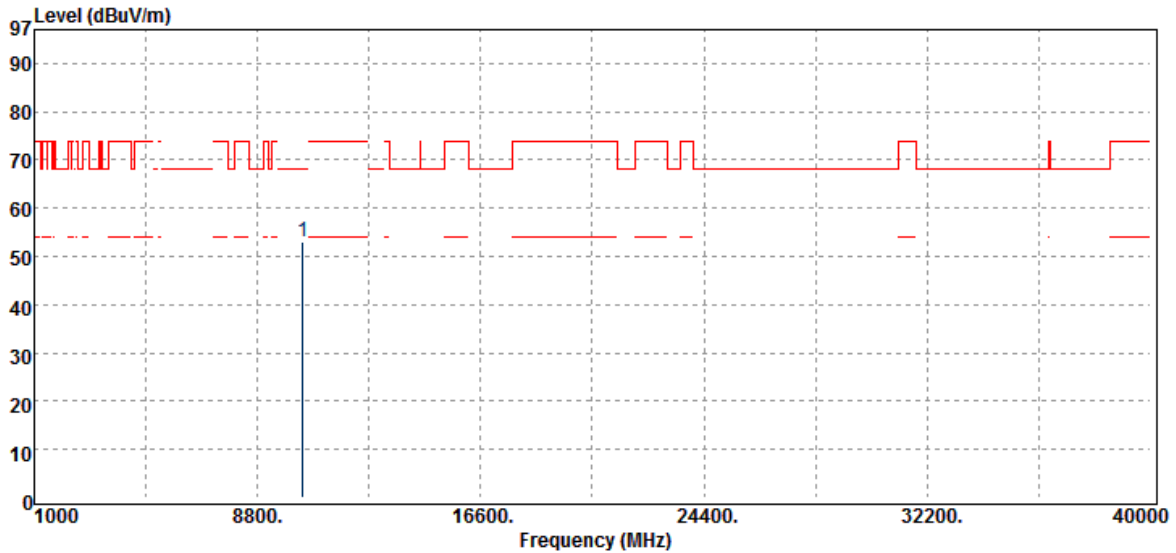
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2018-09-24
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



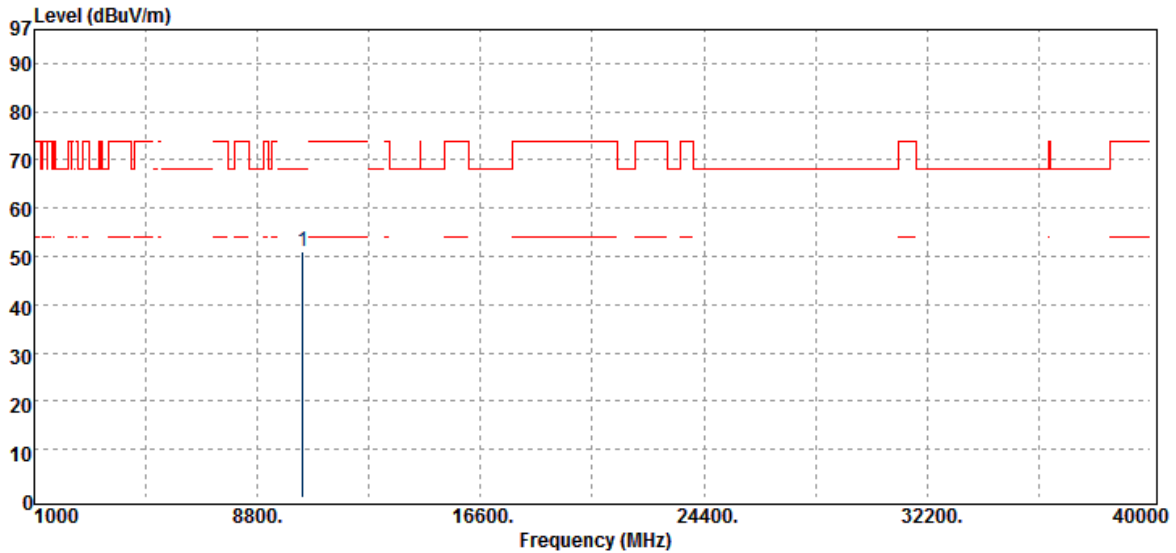
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.00	Peak	33.28	19.78	53.06	68.20	-15.14

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Operation Band	:802.11n40B1	Test Date	:2018-09-24
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.00	Peak	31.08	19.78	50.86	68.20	-17.34

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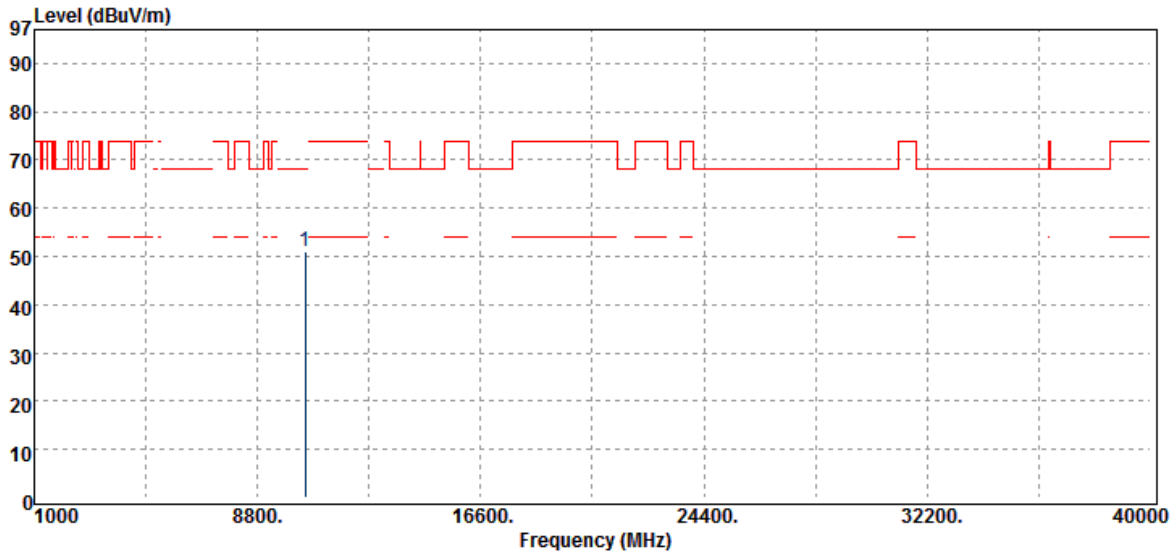
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Operation Band	:802.11n40B1	Test Date	:2018-09-24
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.00	Peak	31.03	20.07	51.10	68.20	-17.10

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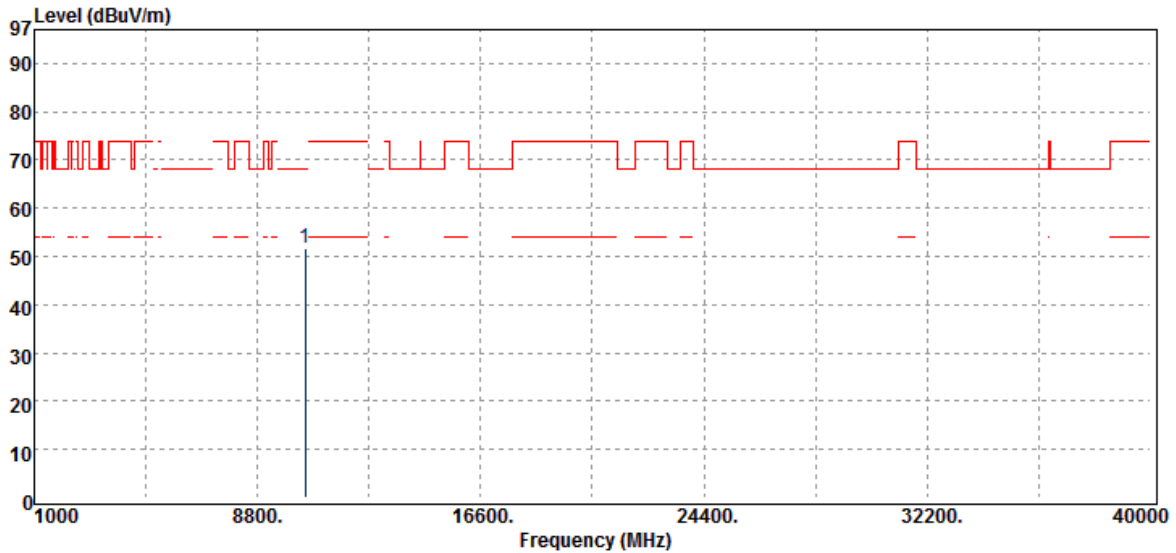
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Operation Band :802.11n40B1  
 Fundamental Frequency :5230 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.00	Peak	31.52	20.07	51.59	68.20	-16.61

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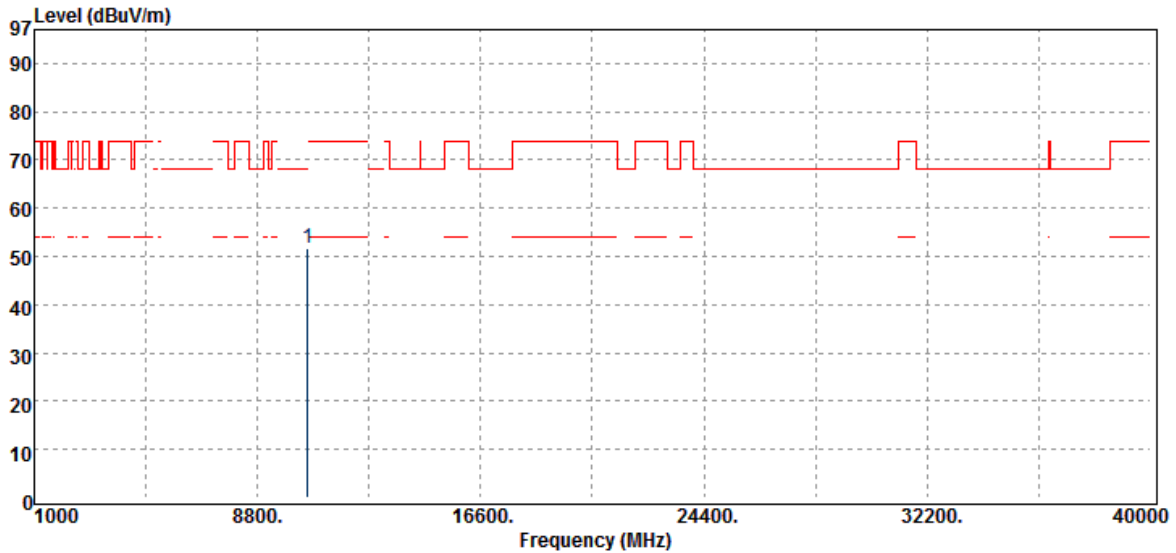
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**

Operation Band	:802.11n40B2	Test Date	:2018-09-24
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10540.00	Peak	31.66	20.02	51.68	68.20	-16.52

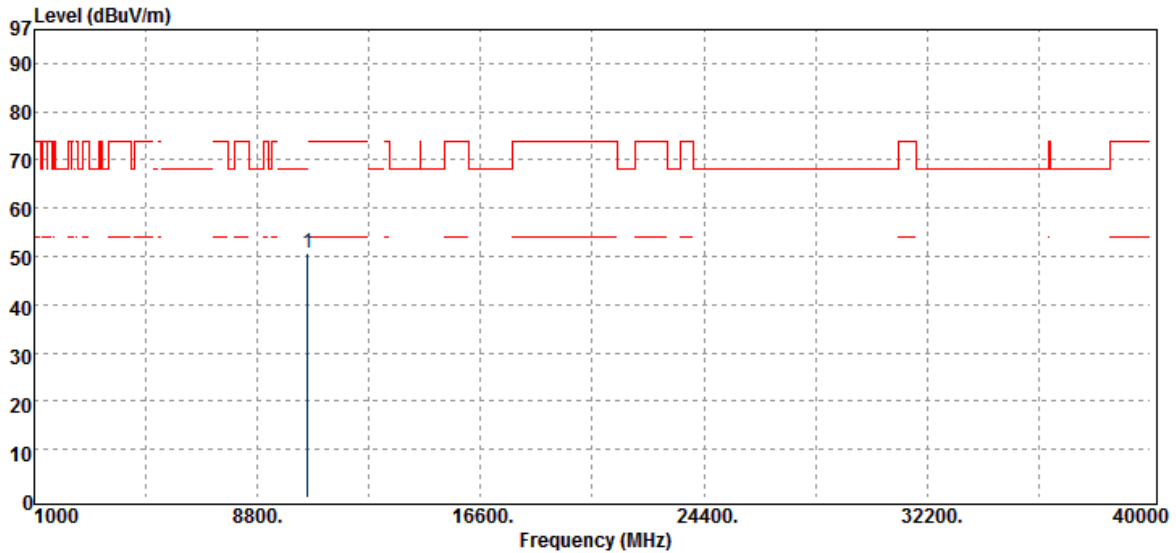
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Operation Band	:802.11n40B2	Test Date	:2018-09-24
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10540.00	Peak	30.63	20.02	50.65	68.20	-17.55

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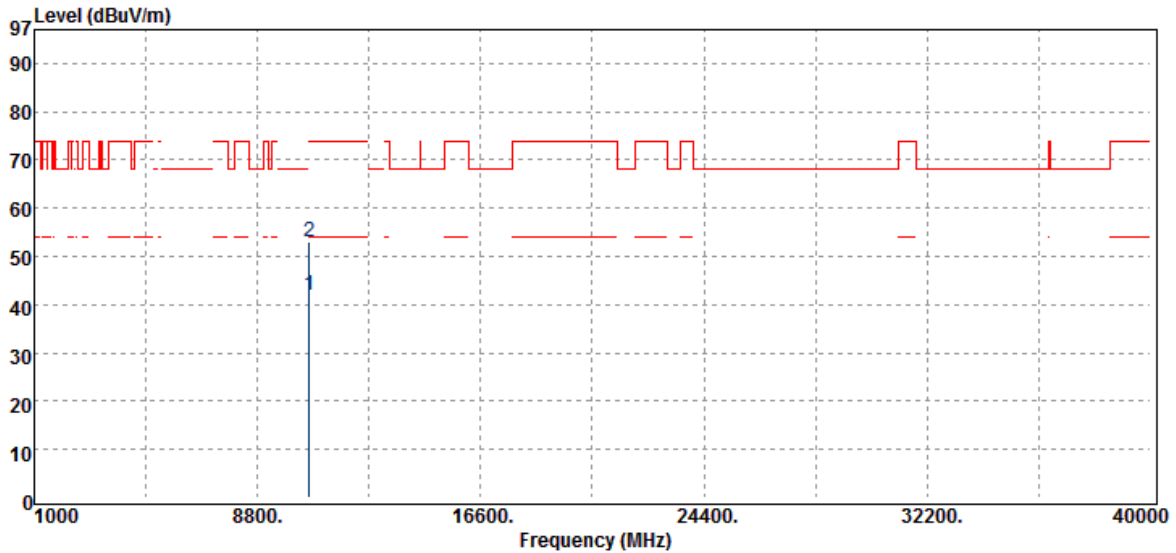
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Operation Band	:802.11n40B2	Test Date	:2018-09-24
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10620.00	Average	21.55	20.41	41.96	54.00	-12.04
10620.00	Peak	32.46	20.41	52.87	74.00	-21.13

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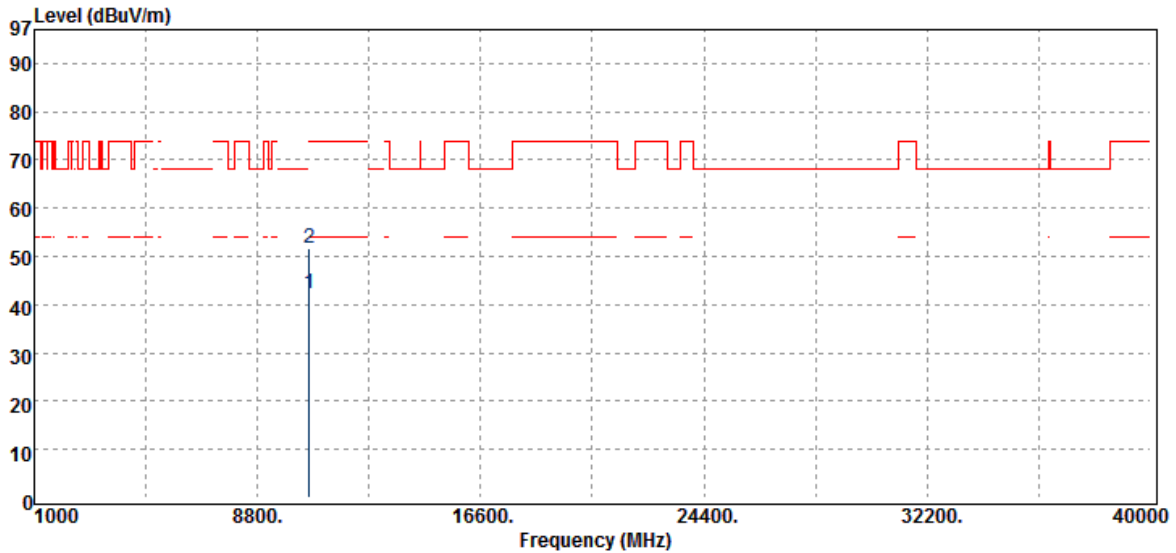
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10620.00	Average	21.85	20.41	42.26	54.00	-11.74
10620.00	Peak	31.40	20.41	51.81	74.00	-22.19

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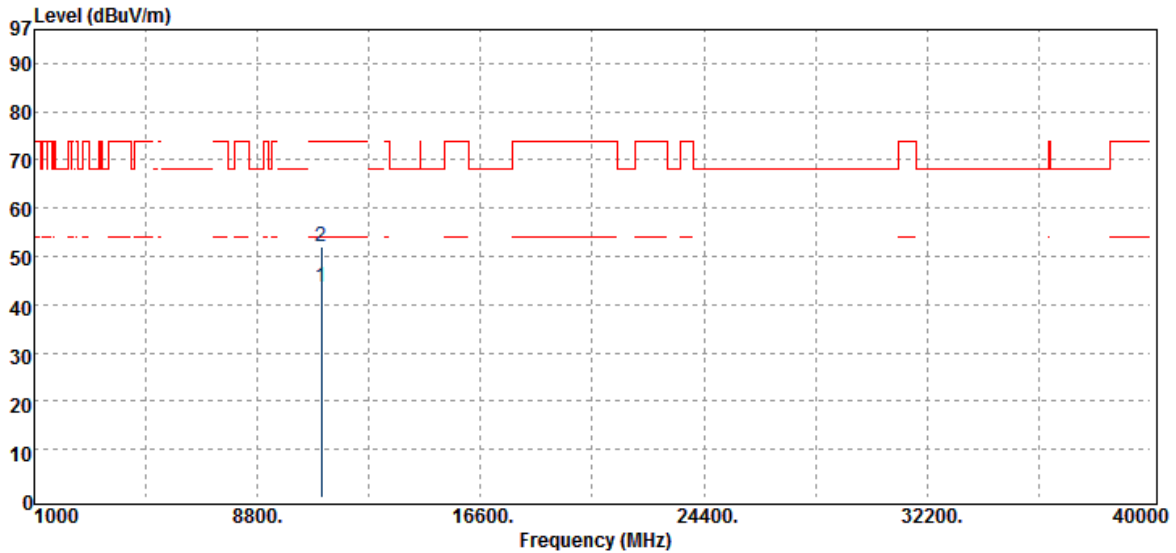
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band	:802.11n40B3	Test Date	:2018-09-24
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



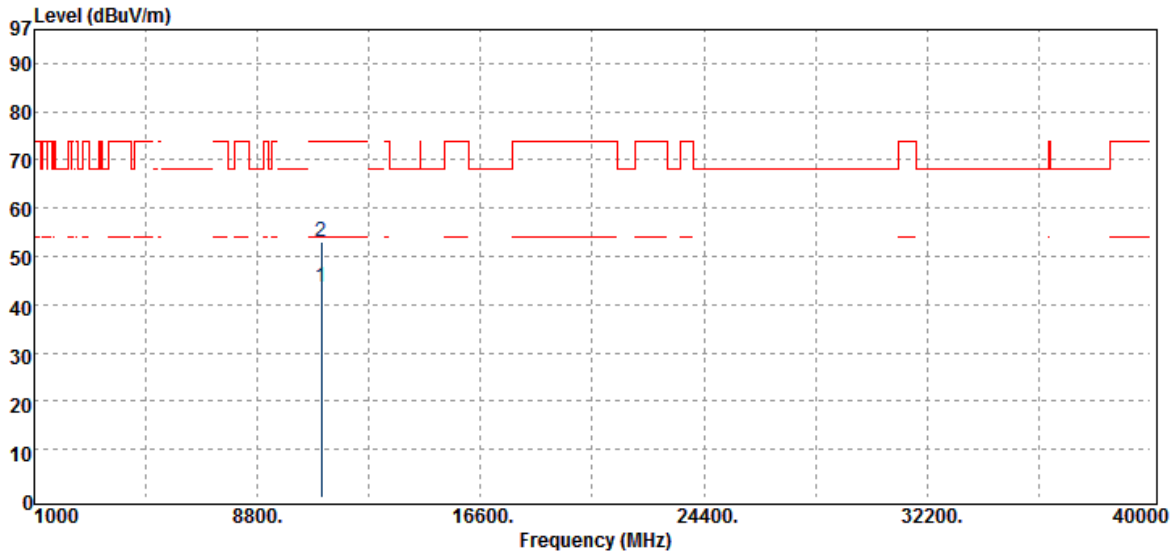
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11020.00	Average	22.04	21.46	43.50	54.00	-10.50
11020.00	Peak	30.45	21.46	51.91	74.00	-22.09

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Operation Band	:802.11n40B3	Test Date	:2018-09-24
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11020.00	Average	22.13	21.46	43.59	54.00	-10.41
11020.00	Peak	31.74	21.46	53.20	74.00	-20.80

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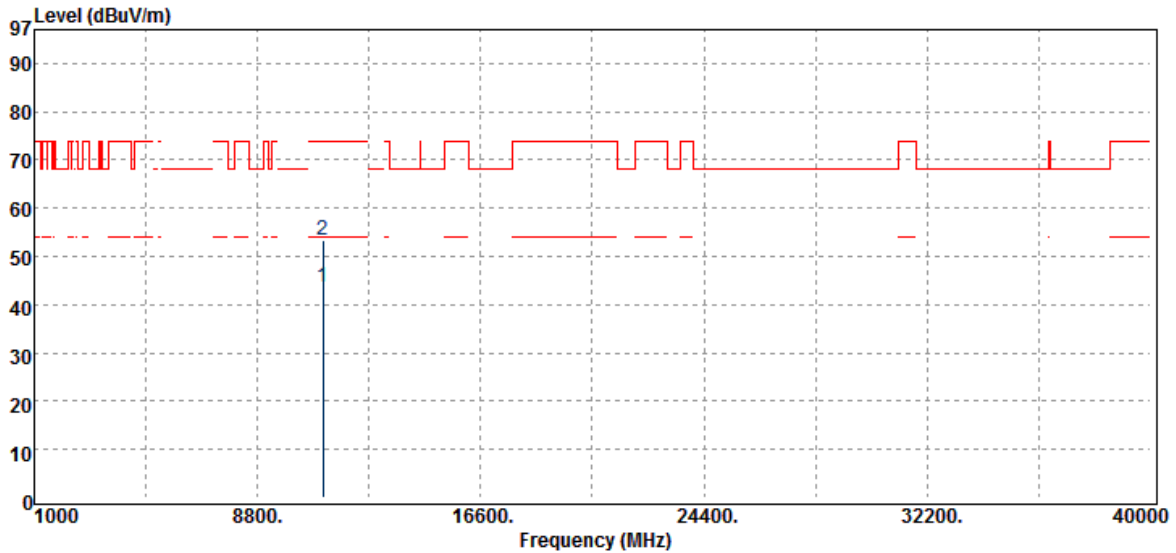
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Operation Band	:802.11n40B3	Test Date	:2018-09-24
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11100.00	Average	22.10	21.53	43.63	54.00	-10.37
11100.00	Peak	31.89	21.53	53.42	74.00	-20.58

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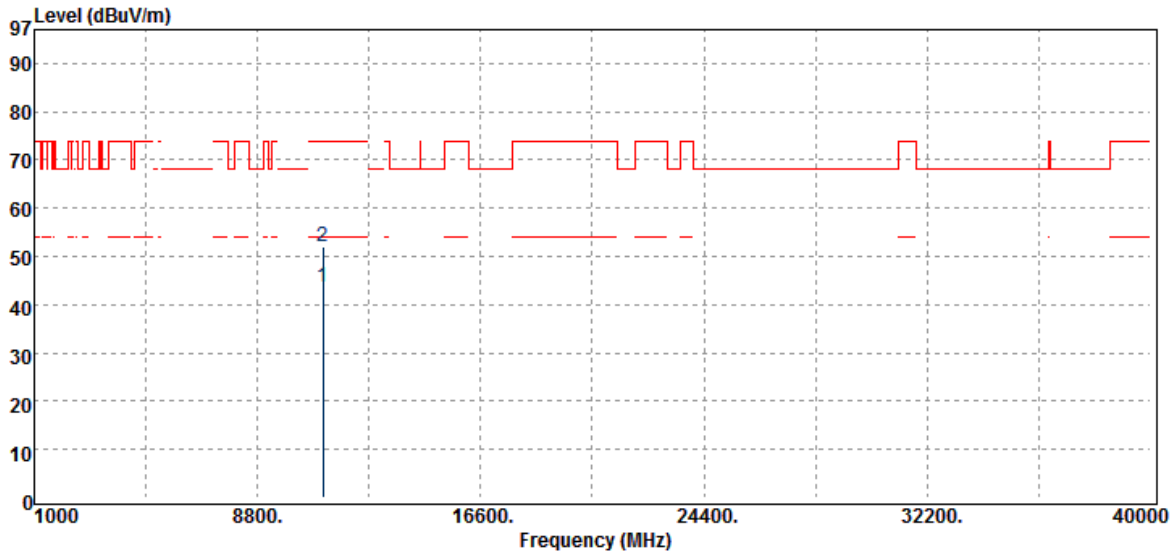
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Operation Band	:802.11n40B3	Test Date	:2018-09-24
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11100.00	Average	22.21	21.53	43.74	54.00	-10.26
11100.00	Peak	30.47	21.53	52.00	74.00	-22.00

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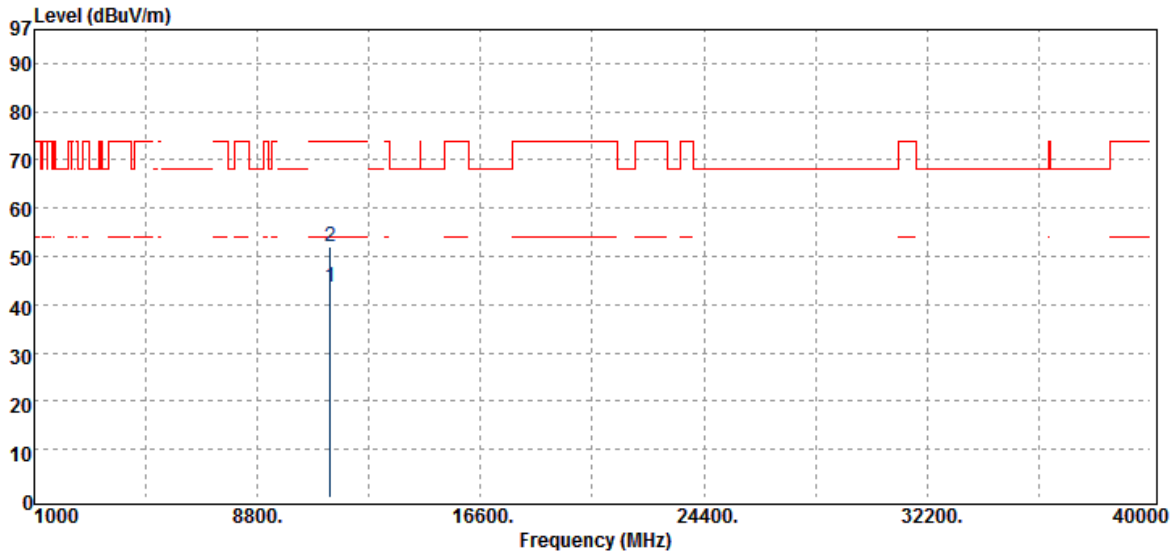
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Operation Band	:802.11n40B3	Test Date	:2018-09-24
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11340.00	Average	22.17	21.54	43.71	54.00	-10.29
11340.00	Peak	30.62	21.54	52.16	74.00	-21.84

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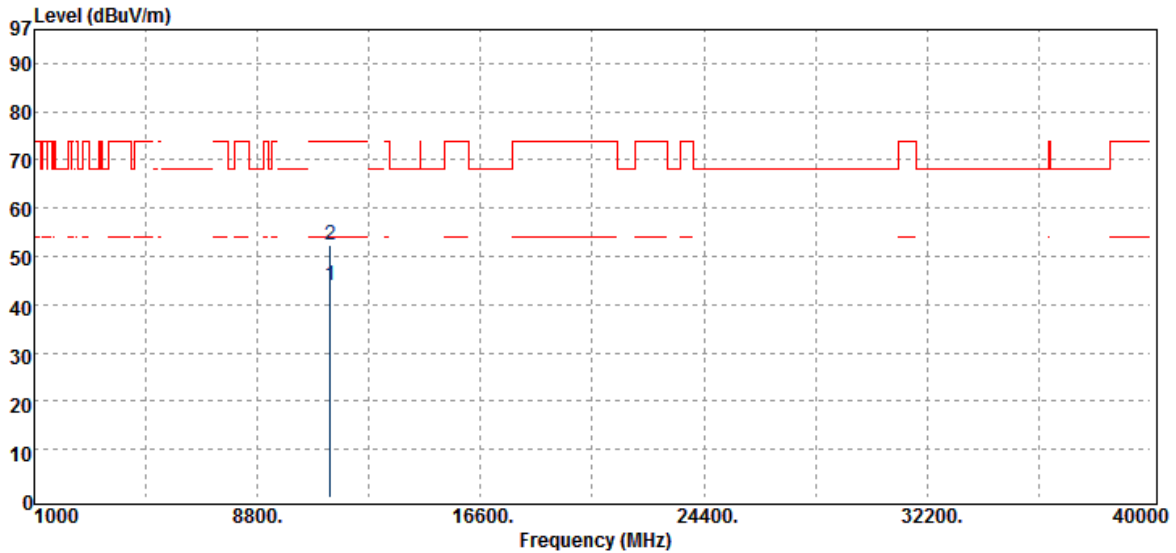
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Operation Band	:802.11n40B3	Test Date	:2018-09-24
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11340.00	Average	22.34	21.54	43.88	54.00	-10.12
11340.00	Peak	30.69	21.54	52.23	74.00	-21.77

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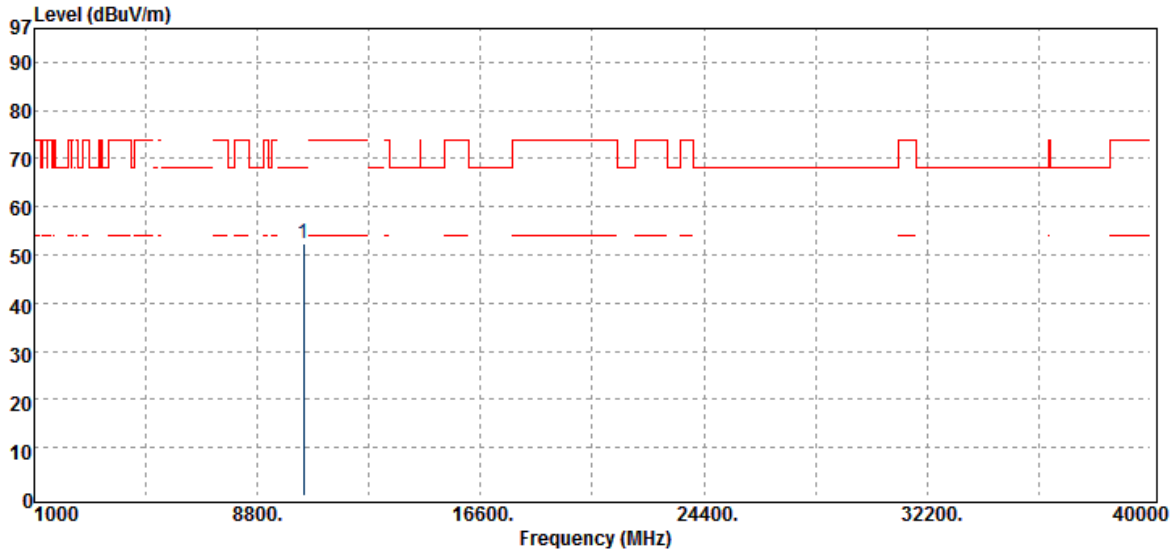
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11ac80B1	Test Date	:2018-09-24
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	Peak	32.52	19.99	52.51	68.20	-15.69

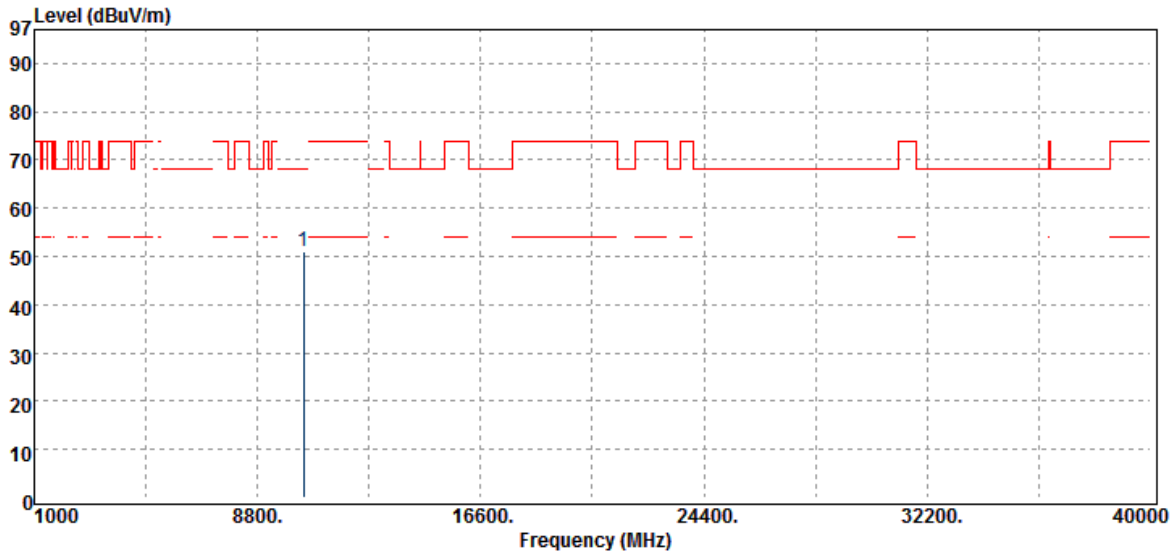
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Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	Peak	30.91	19.99	50.90	68.20	-17.30

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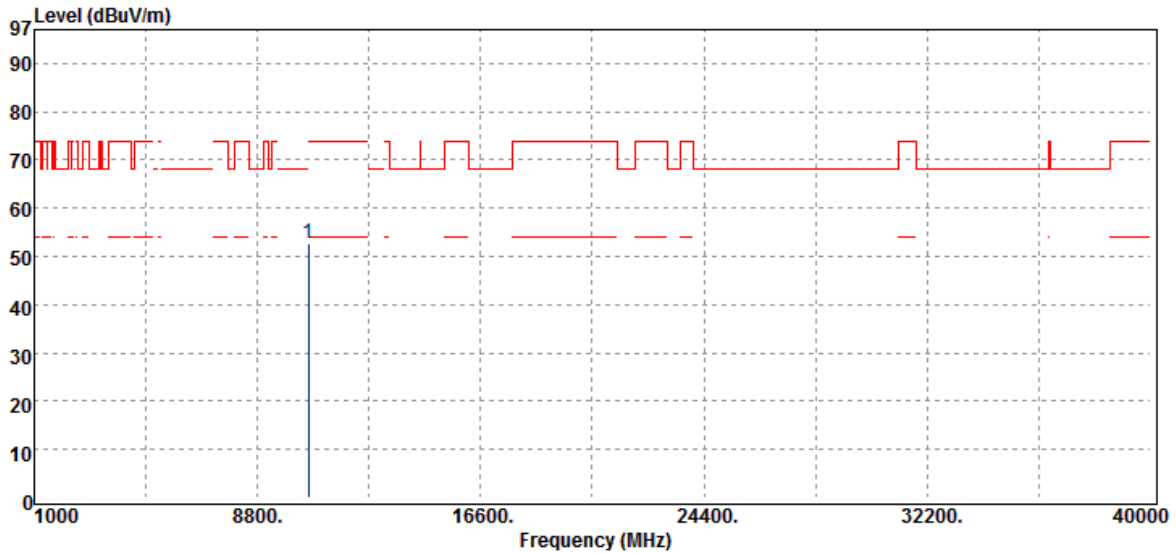
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band	:802.11ac80B2	Test Date	:2018-09-24
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10580.00	Peak	32.61	20.23	52.84	68.20	-15.36

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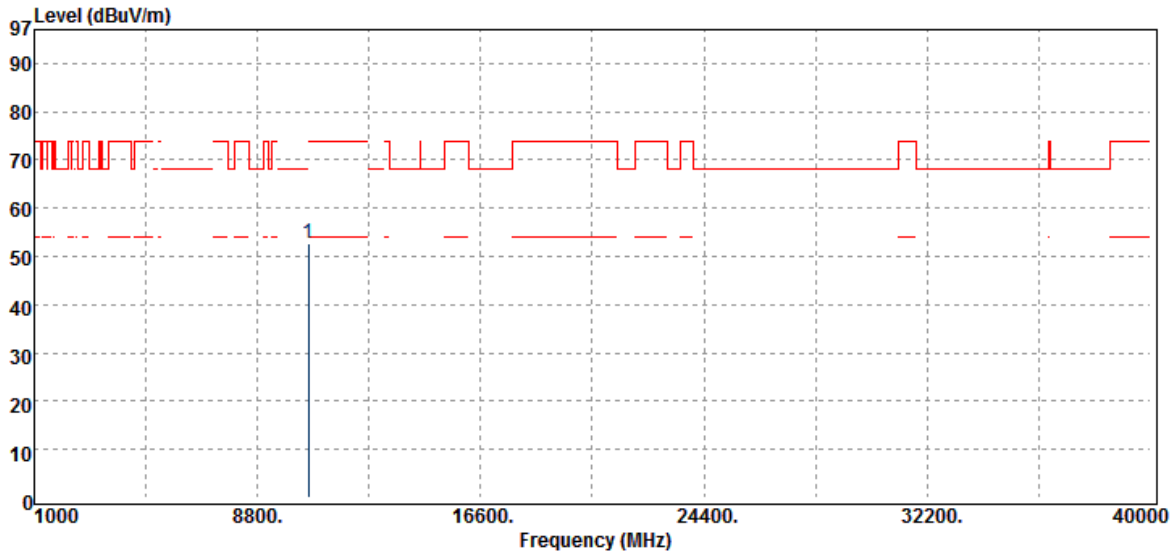
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Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10580.00	Peak	32.54	20.23	52.77	68.20	-15.43

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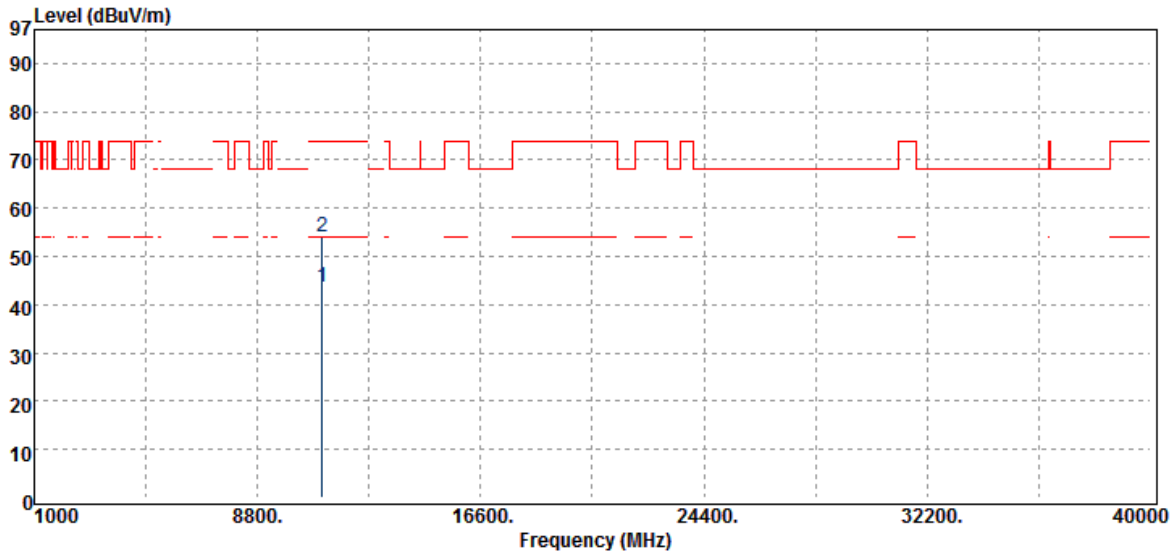
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band	:802.11ac80B3	Test Date	:2018-09-24
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d $\mu$ V	Factor dB	Actual FS d $\mu$ V/m	Limit @3m d $\mu$ V/m	Margin dB
11060.00	Average	22.07	21.53	43.60	54.00	-10.40
11060.00	Peak	32.51	21.53	54.04	74.00	-19.96

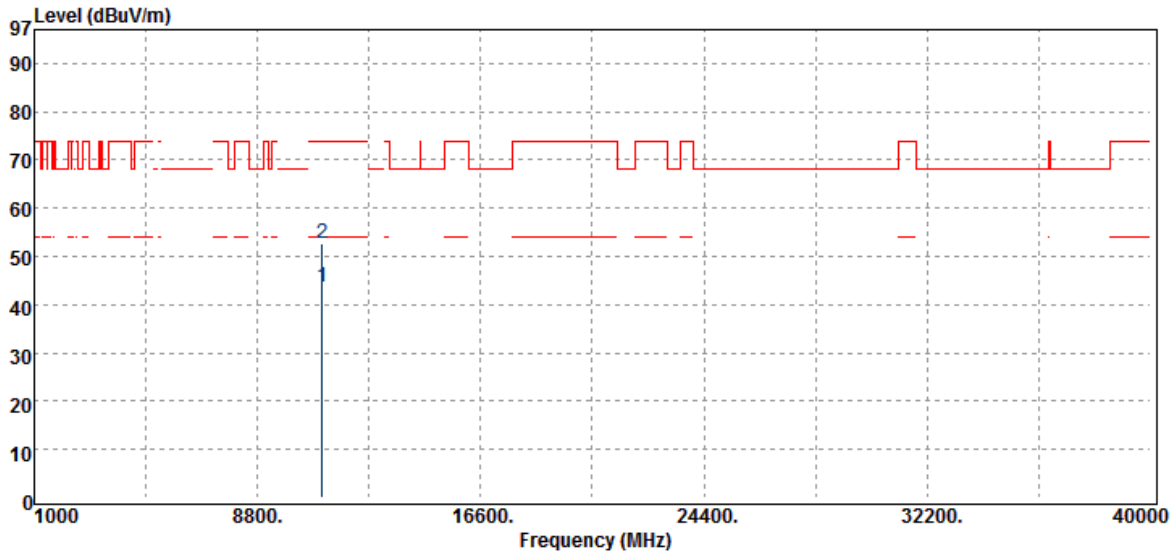
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11060.00	Average	22.19	21.53	43.72	54.00	-10.28
11060.00	Peak	31.07	21.53	52.60	74.00	-21.40

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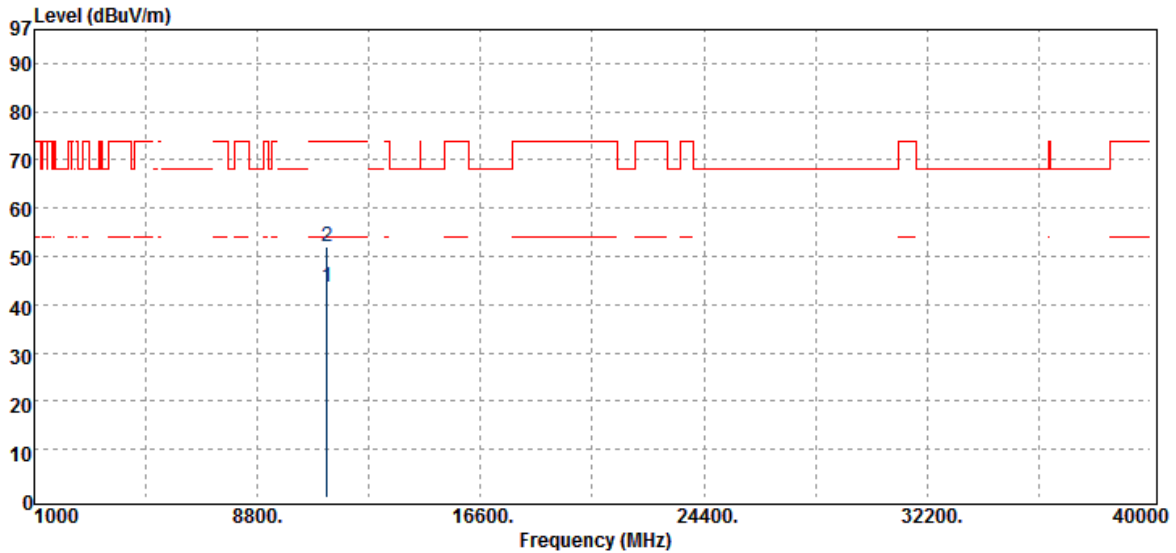
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Operation Band :802.11ac80B3  
Fundamental Frequency :5610 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11220.00	Average	22.22	21.56	43.78	54.00	-10.22
11220.00	Peak	30.59	21.56	52.15	74.00	-21.85

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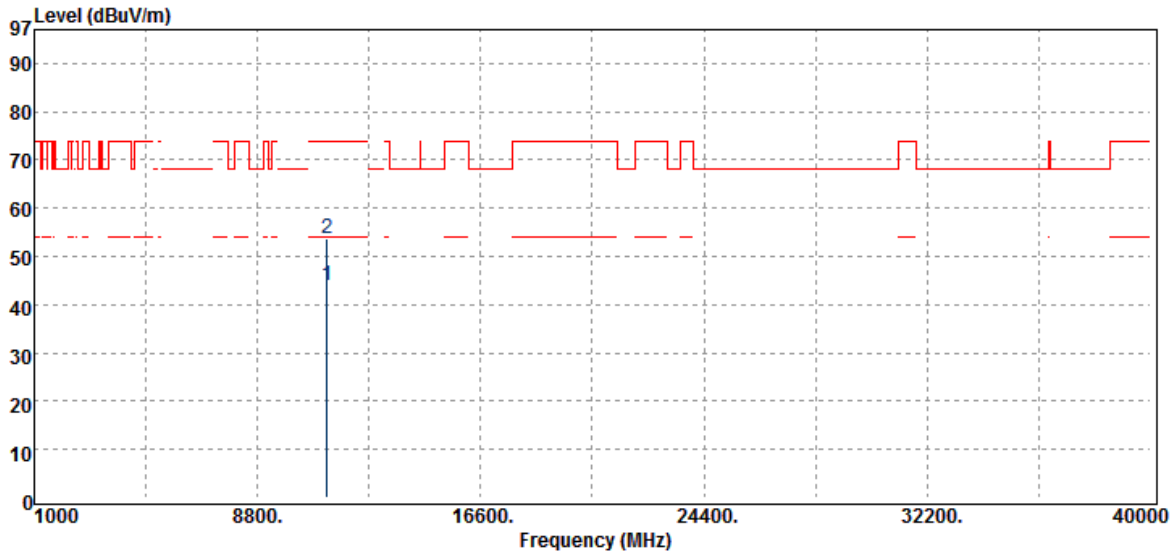
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5610 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11220.00	Average	22.37	21.56	43.93	54.00	-10.07
11220.00	Peak	32.26	21.56	53.82	74.00	-20.18

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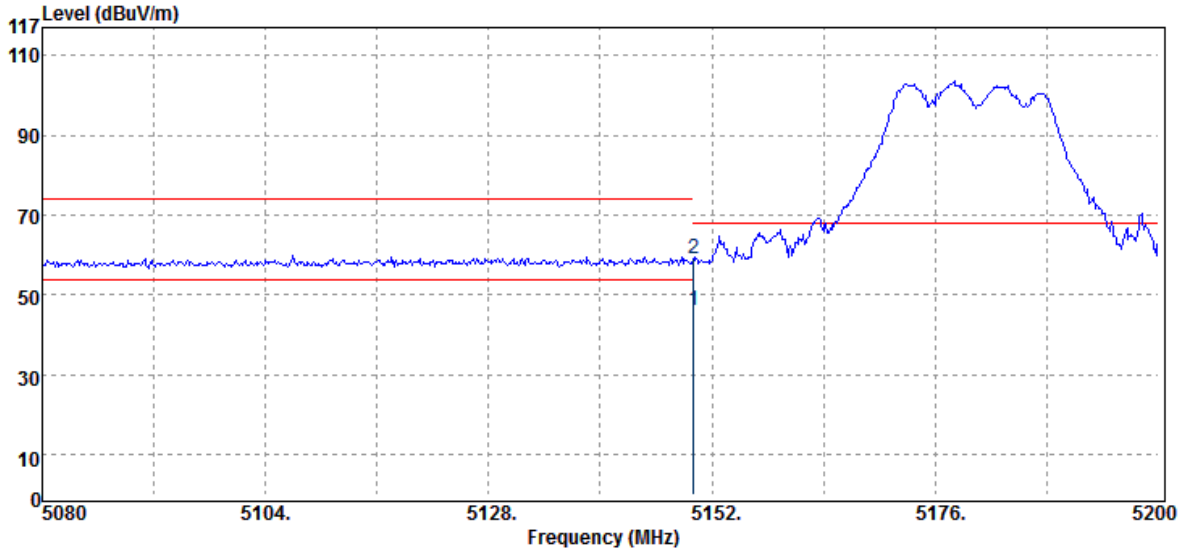
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### Band Edge falling to restricted band

#### 802.11a mode

Operation Band :802.11aB1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	37.97	8.32	46.29	54.00	-7.71
5150.00	Peak	50.94	8.32	59.26	74.00	-14.74

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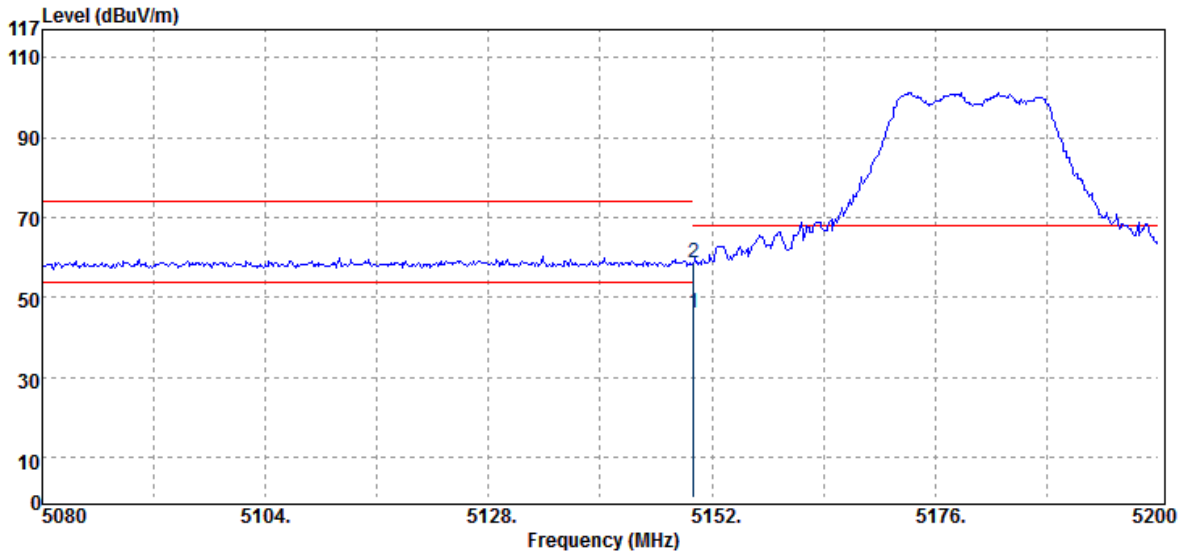
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Operation Band :802.11aB1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	37.99	8.32	46.31	54.00	-7.69
5150.00	Peak	50.26	8.32	58.58	74.00	-15.42

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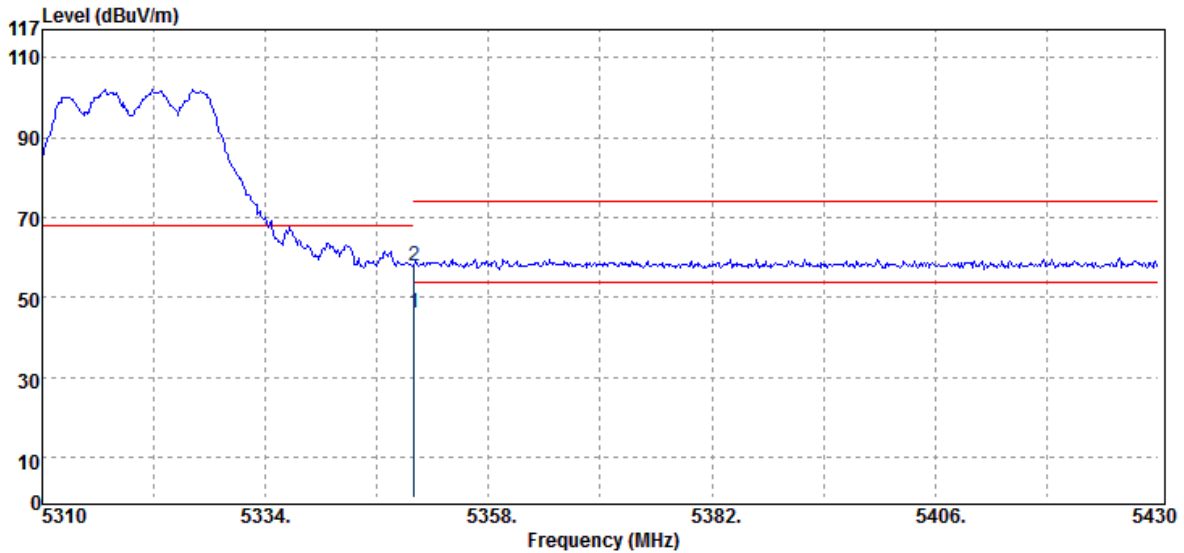
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	37.65	8.63	46.28	54.00	-7.72
5350.00	Peak	49.38	8.63	58.01	74.00	-15.99

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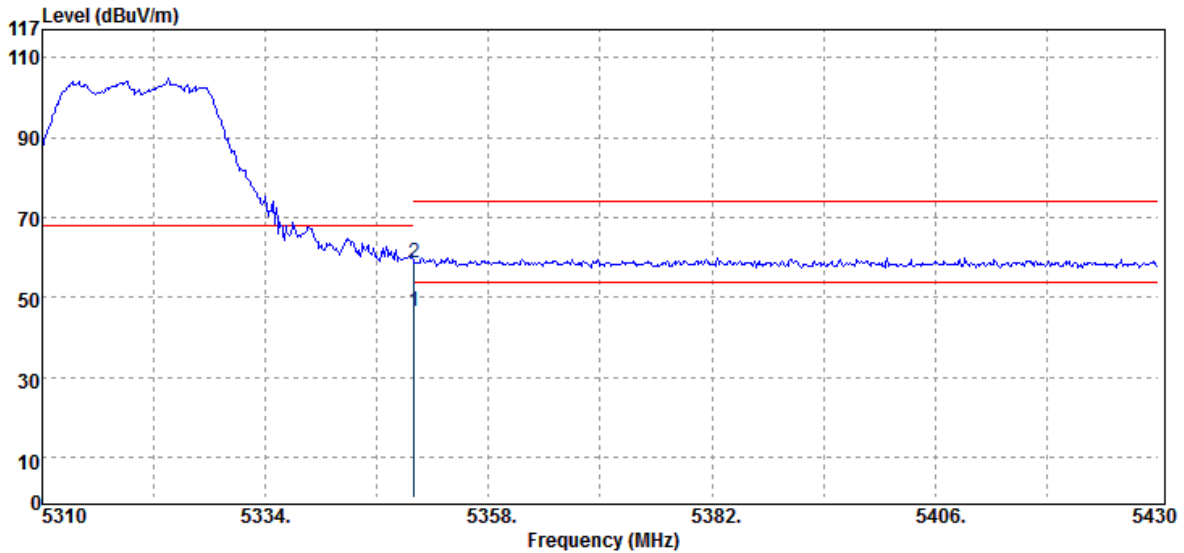
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Operation Band :802.11aB2  
Fundamental Frequency :5320 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	38.10	8.63	46.73	54.00	-7.27
5350.00	Peak	50.00	8.63	58.63	74.00	-15.37

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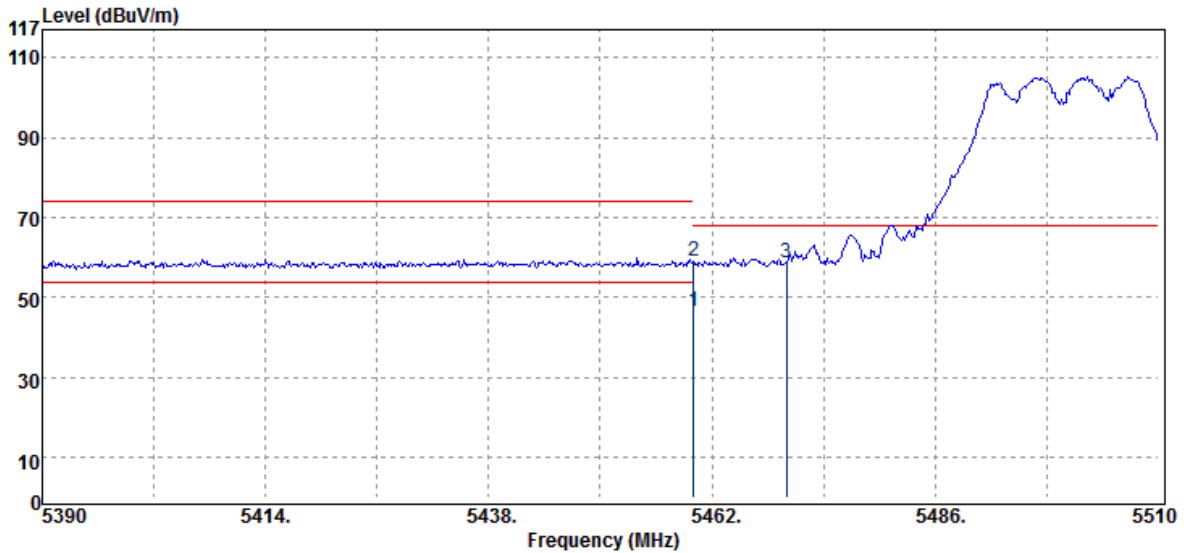
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	37.87	8.75	46.62	54.00	-7.38
5460.00	Peak	50.17	8.75	58.92	74.00	-15.08
5470.00	Peak	49.96	8.74	58.70	68.20	-9.50

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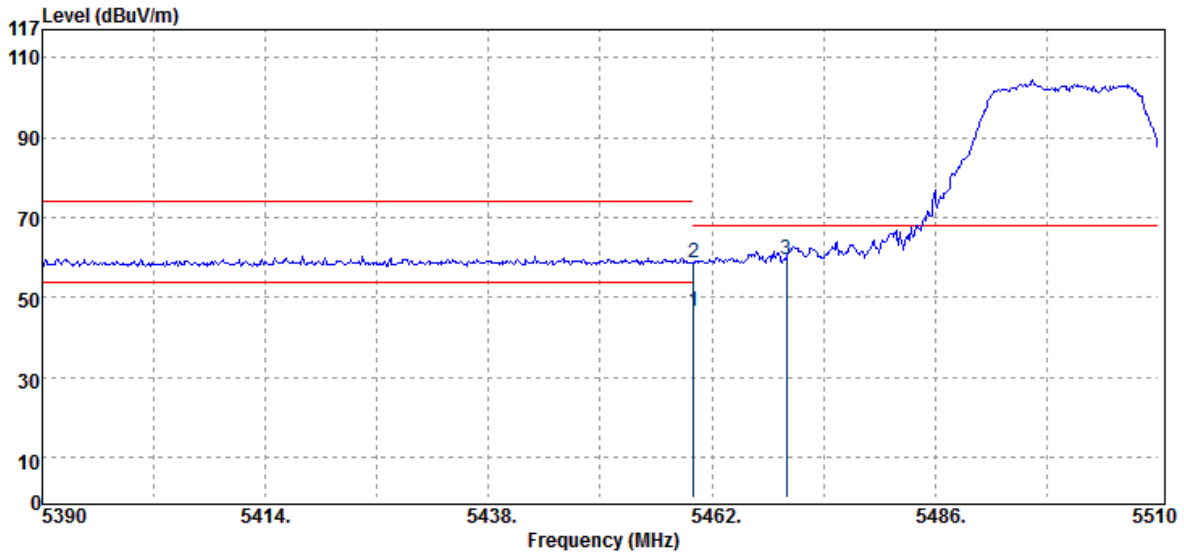
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	37.80	8.75	46.55	54.00	-7.45
5460.00	Peak	49.91	8.75	58.66	74.00	-15.34
5470.00	Peak	50.74	8.74	59.48	68.20	-8.72

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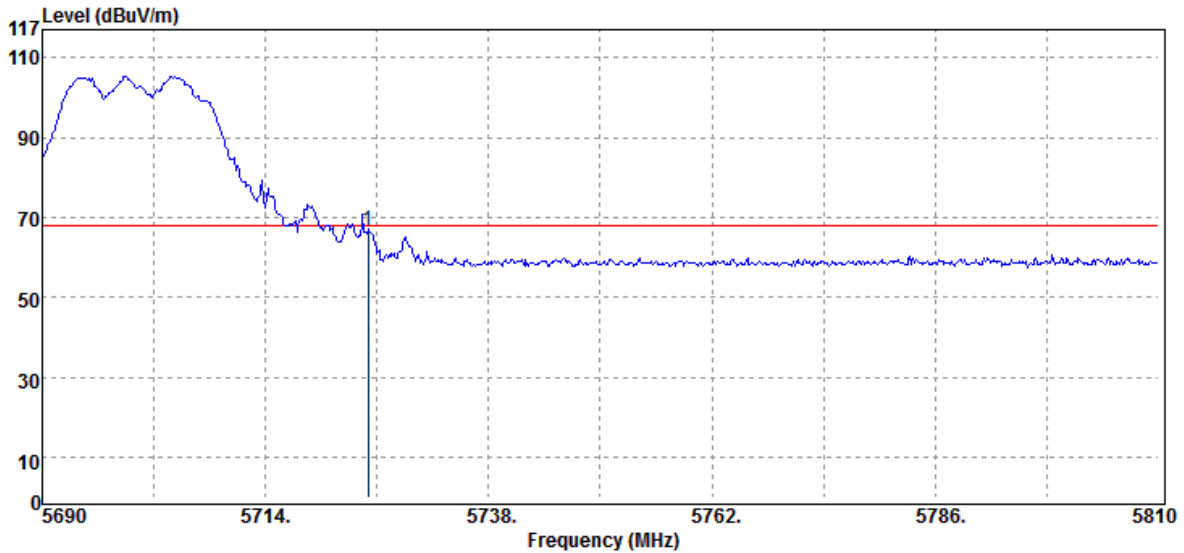
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	57.36	9.44	66.80	68.20	-1.40

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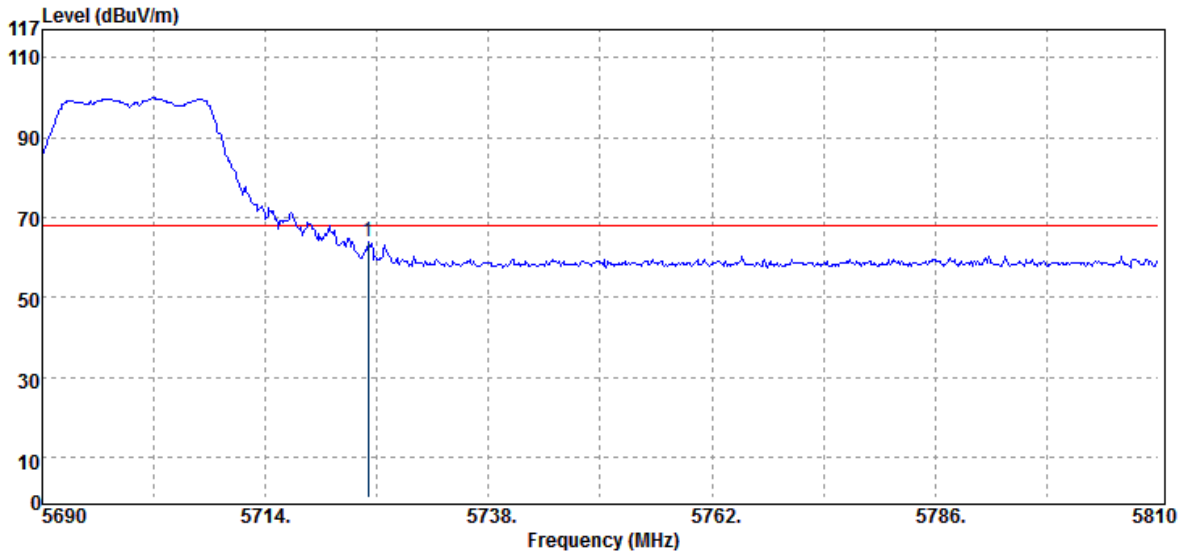
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Operation Band :802.11aB3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	54.33	9.44	63.77	68.20	-4.43

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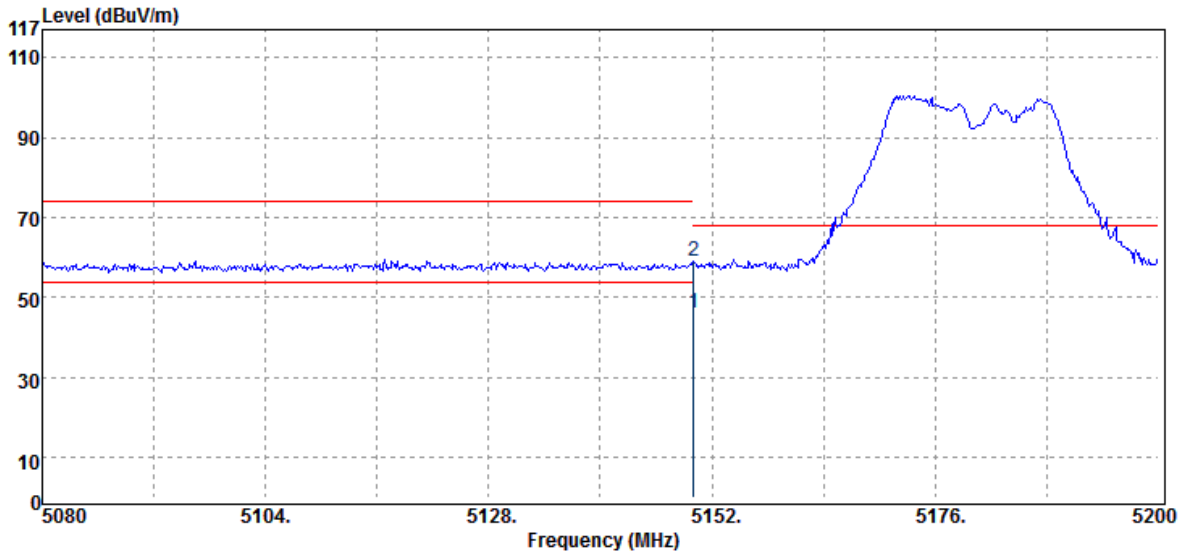
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**802.11n20 HT mode**

Operation Band :802.11n20B1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	37.93	8.32	46.25	54.00	-7.75
5150.00	Peak	50.72	8.32	59.04	74.00	-14.96

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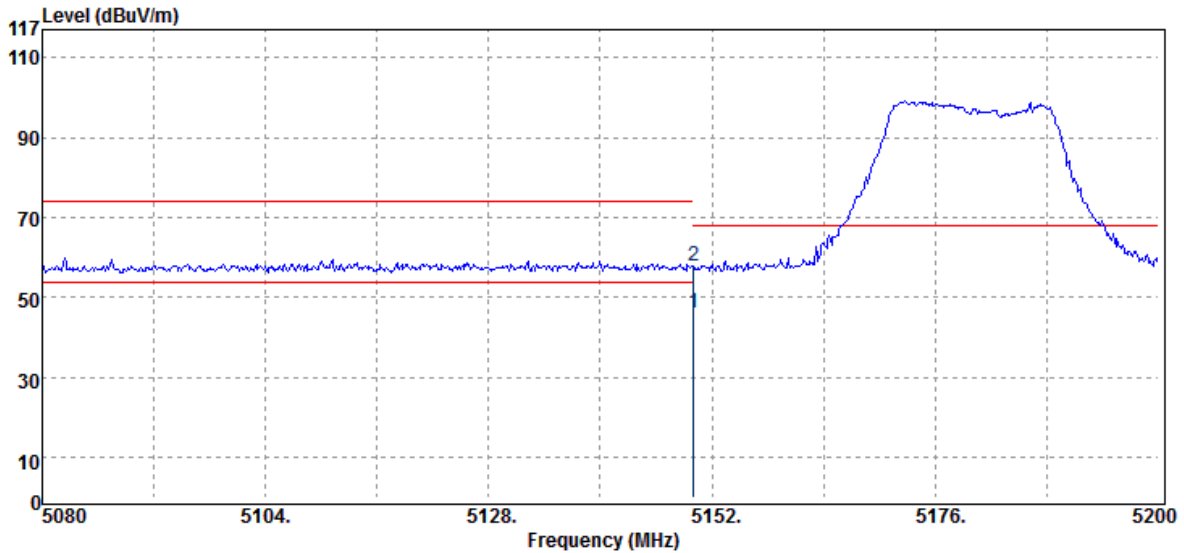
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Operation Band :802.11n20B1  
 Fundamental Frequency :5180 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	37.79	8.32	46.11	54.00	-7.89
5150.00	Peak	49.46	8.32	57.78	74.00	-16.22

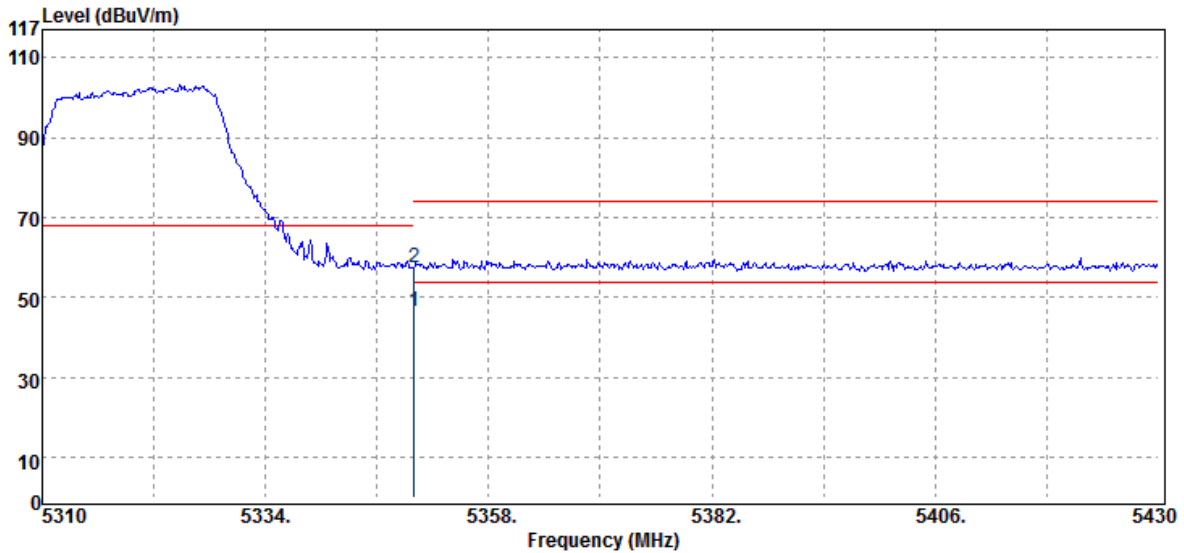
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Operation Band :802.11n20B1  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	37.77	8.63	46.40	54.00	-7.60
5350.00	Peak	48.66	8.63	57.29	74.00	-16.71

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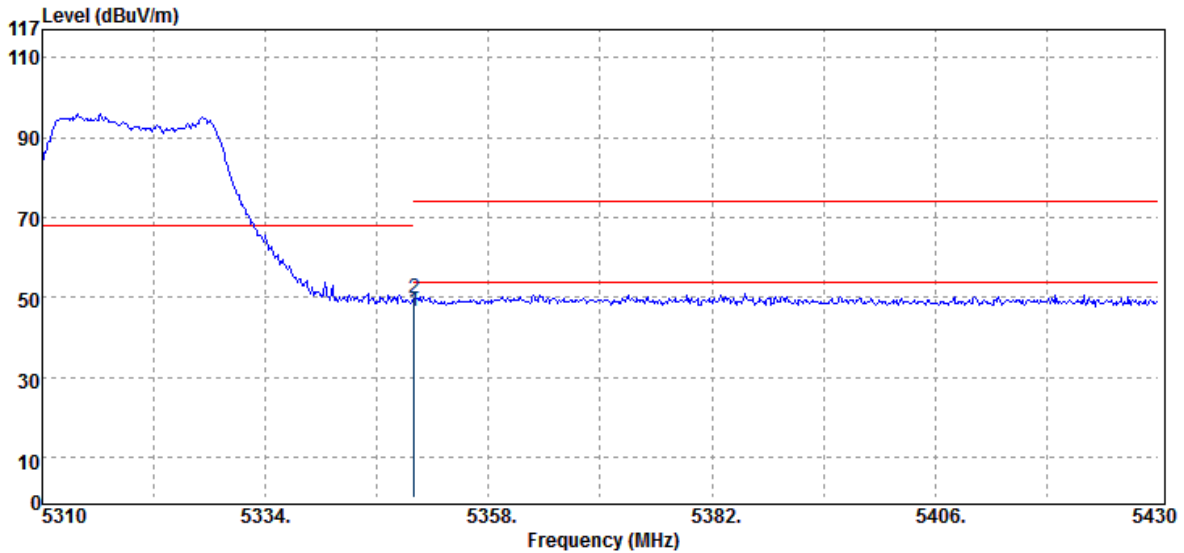
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Operation Band :802.11n20B1  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	37.98	8.63	46.61	54.00	-7.39
5350.00	Peak	41.13	8.63	49.76	74.00	-24.24

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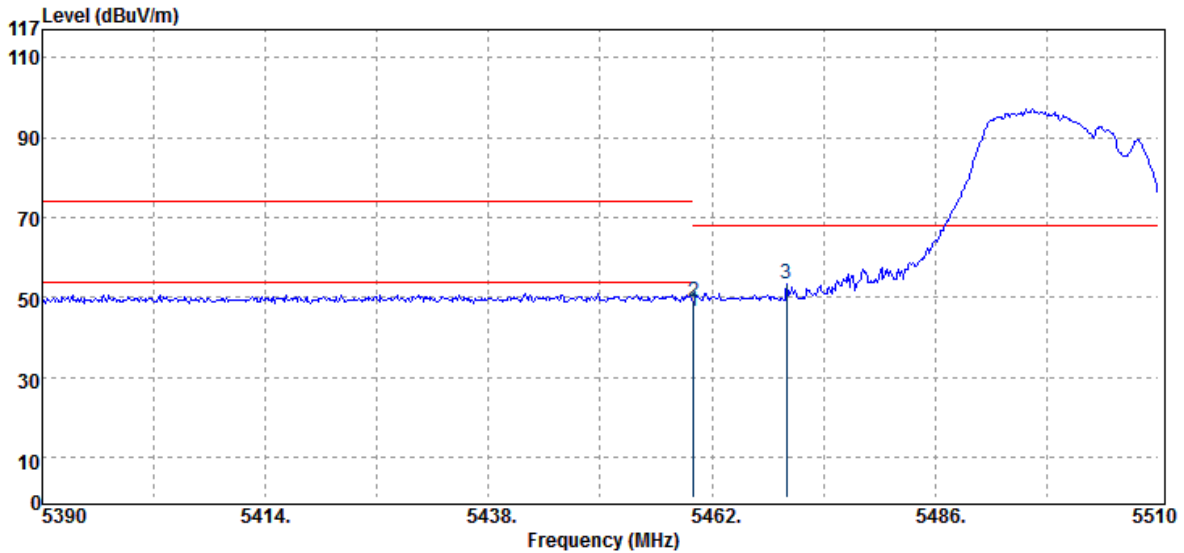
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	37.75	8.75	46.50	54.00	-7.50
5460.00	Peak	40.30	8.75	49.05	74.00	-24.95
5470.00	Peak	44.59	8.74	53.33	68.20	-14.87

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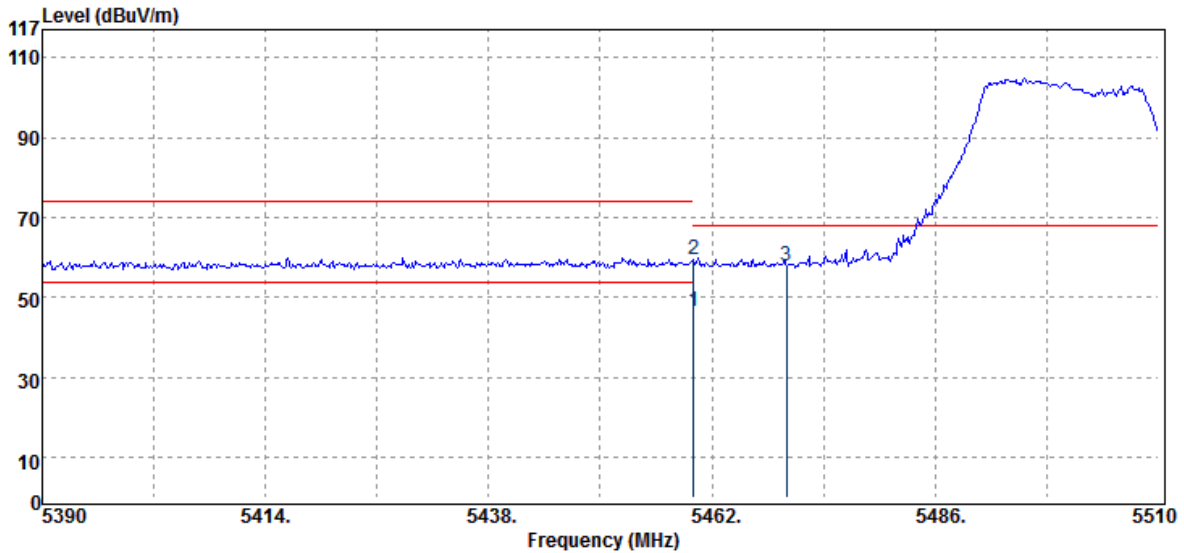
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	37.80	8.75	46.55	54.00	-7.45
5460.00	Peak	50.72	8.75	59.47	74.00	-14.53
5470.00	Peak	49.13	8.74	57.87	68.20	-10.33

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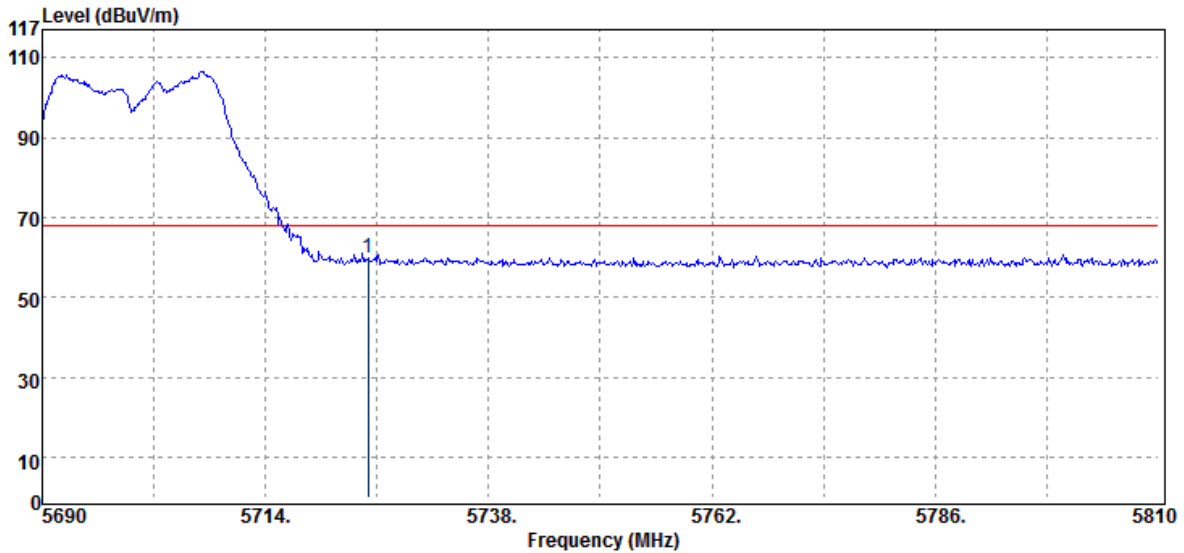
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	50.49	9.44	59.93	68.20	-8.27

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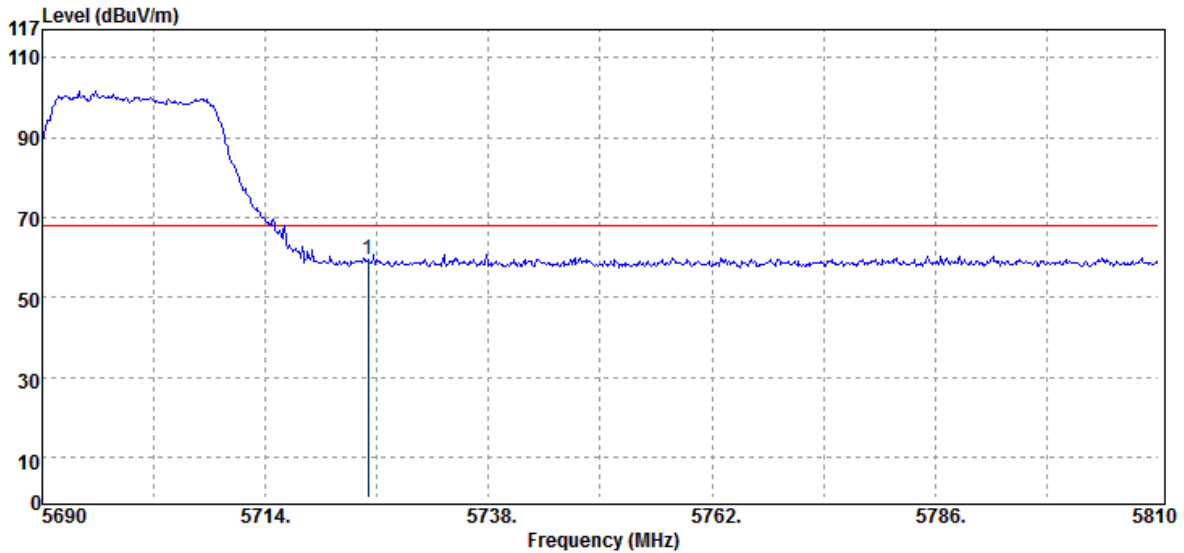
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Operation Band	:802.11n20B3	Test Date	:2018-09-24
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	49.97	9.44	59.41	68.20	-8.79

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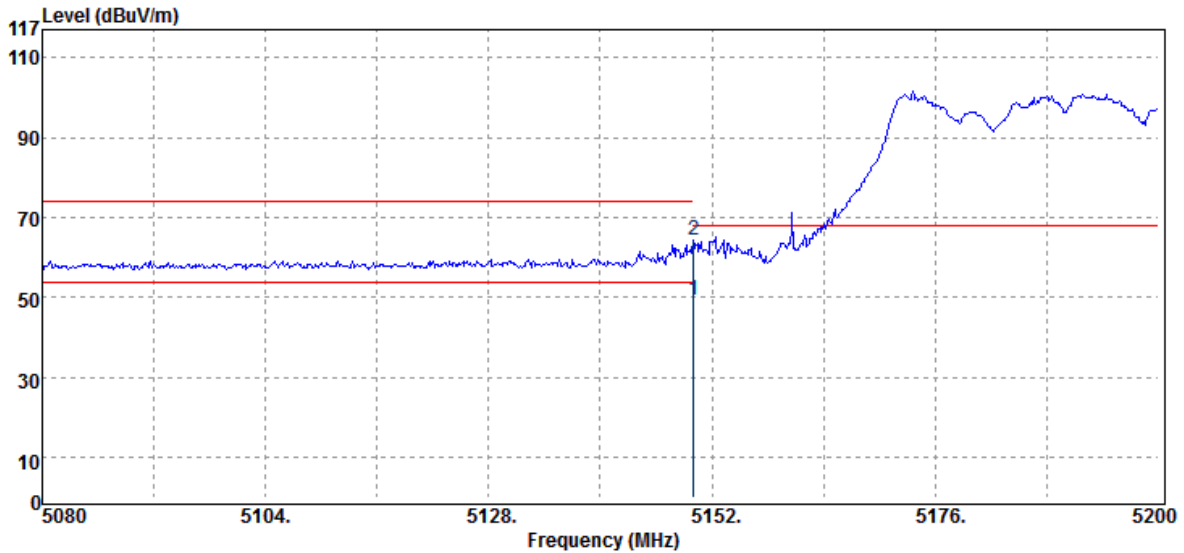
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**802.11n40 HT mode**

Operation Band	:802.11n40B1	Test Date	:2018-09-24
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	41.13	8.32	49.45	54.00	-4.55
5150.00	Peak	56.09	8.32	64.41	74.00	-9.59

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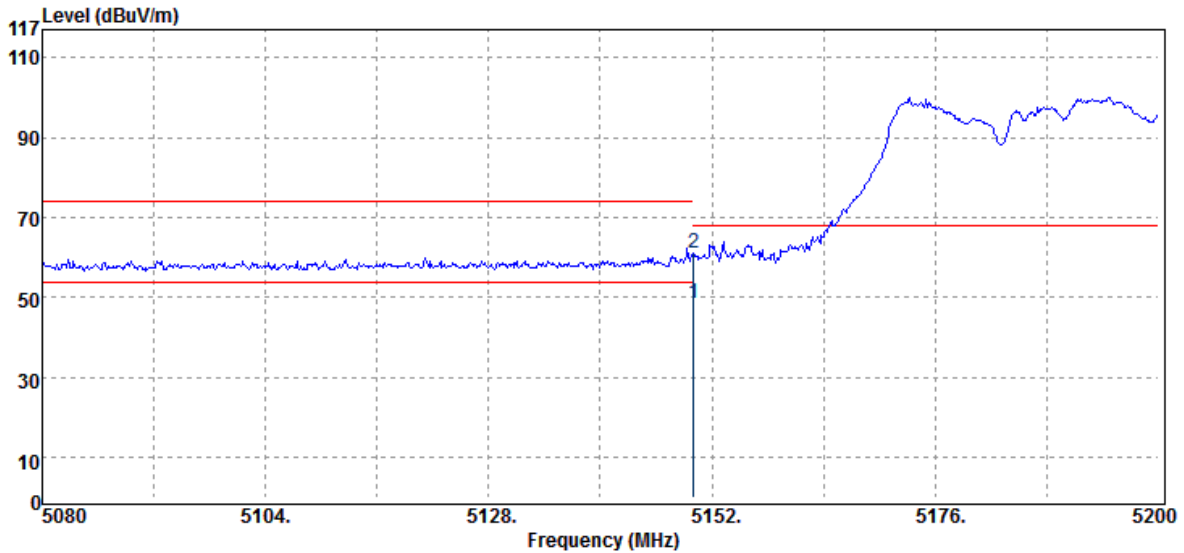
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Operation Band :802.11n40B1  
 Fundamental Frequency :5190 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	40.16	8.32	48.48	54.00	-5.52
5150.00	Peak	52.87	8.32	61.19	74.00	-12.81

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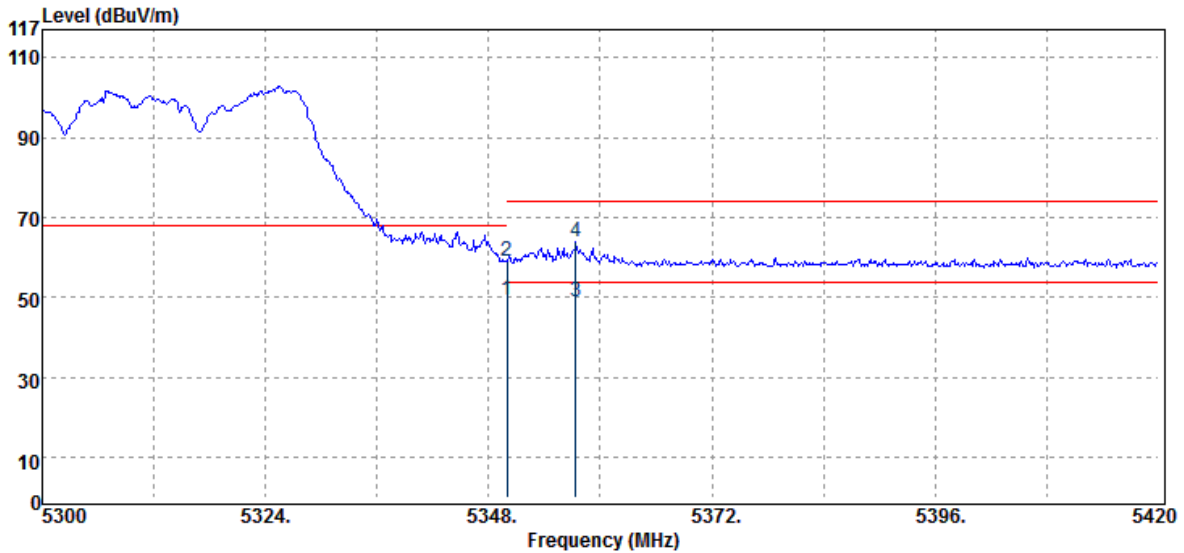
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
5350.00	Average	40.65	8.63	49.28	54.00	-4.72
5350.00	Peak	50.30	8.63	58.93	74.00	-15.07
5357.36	Average	40.26	8.65	48.91	54.00	-5.09
5357.36	Peak	55.17	8.65	63.82	74.00	-10.18

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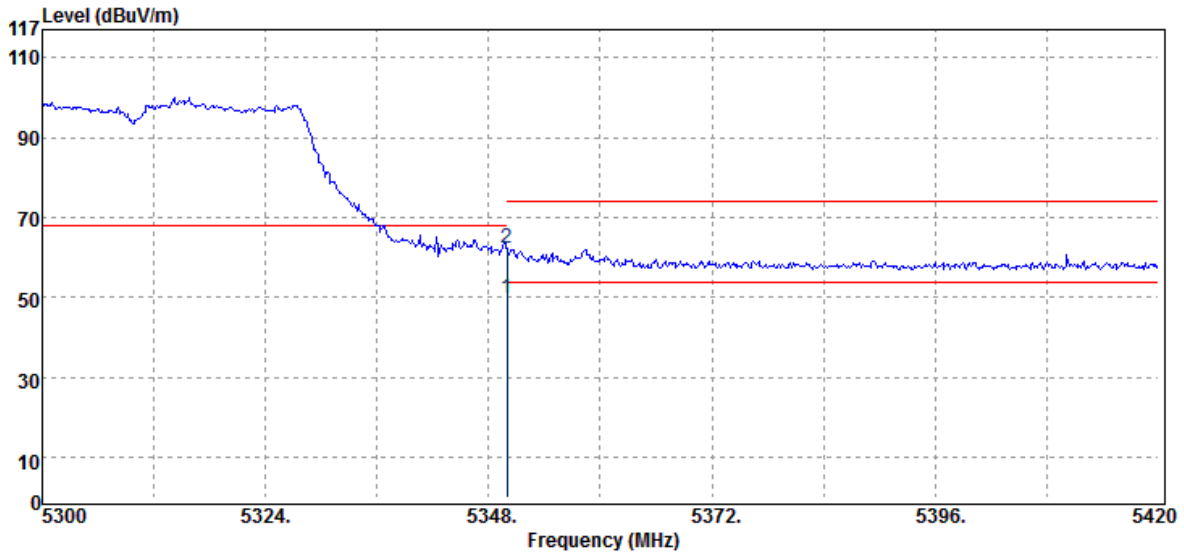
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Operation Band :802.11n40B2  
Fundamental Frequency :5310 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	41.12	8.63	49.75	54.00	-4.25
5350.00	Peak	53.68	8.63	62.31	74.00	-11.69

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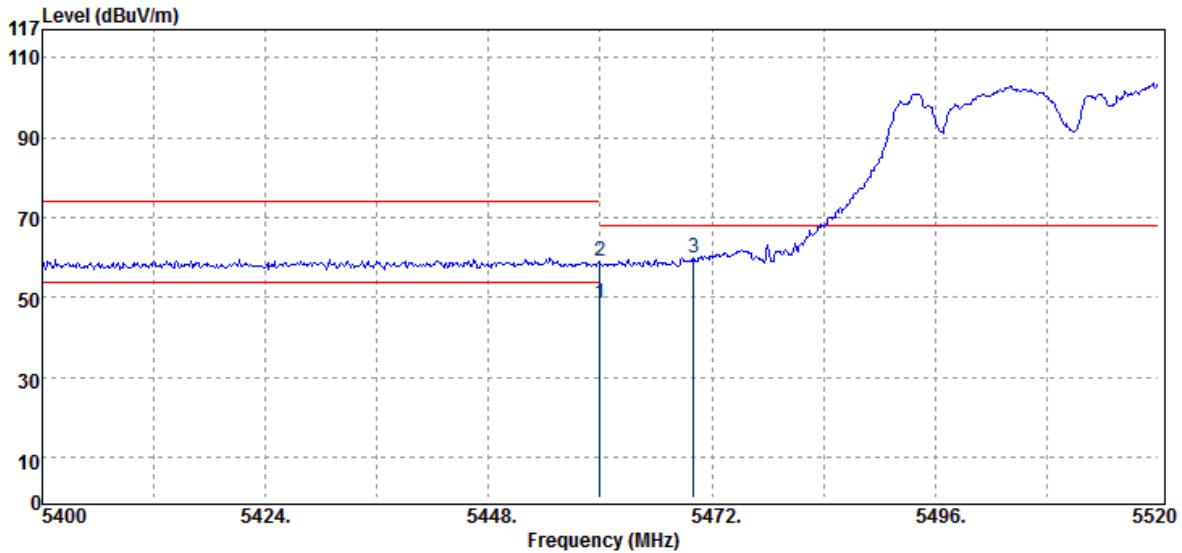
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Operation Band :802.11n40B3  
Fundamental Frequency :5510 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-24  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Tin  
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	39.96	8.75	48.71	54.00	-5.29
5460.00	Peak	50.18	8.75	58.93	74.00	-15.07
5470.00	Peak	51.16	8.74	59.90	68.20	-8.30

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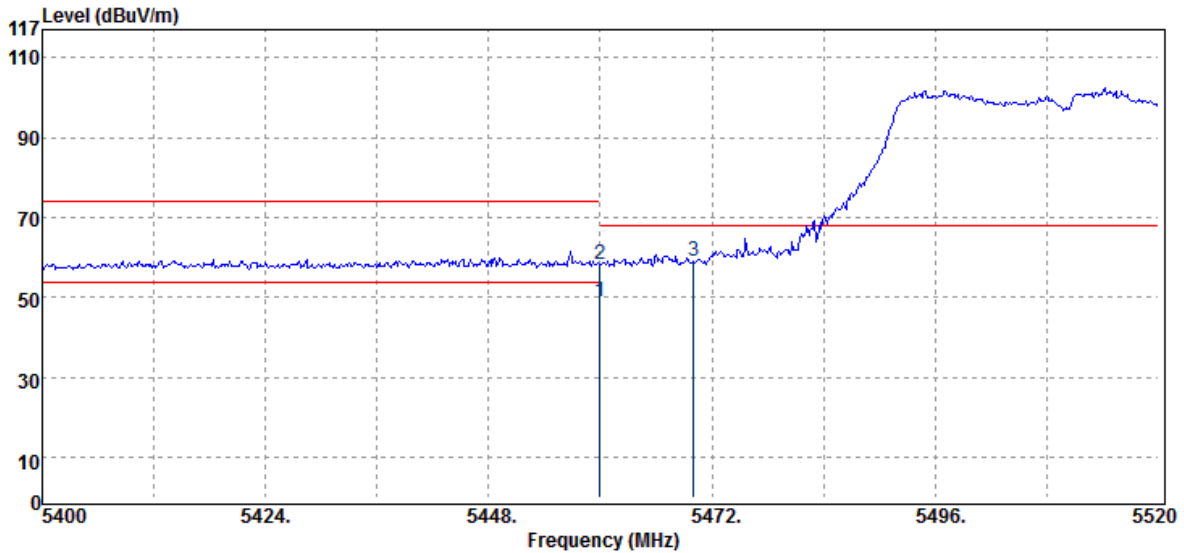
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	40.30	8.75	49.05	54.00	-4.95
5460.00	Peak	49.59	8.75	58.34	74.00	-15.66
5470.00	Peak	50.35	8.74	59.09	68.20	-9.11

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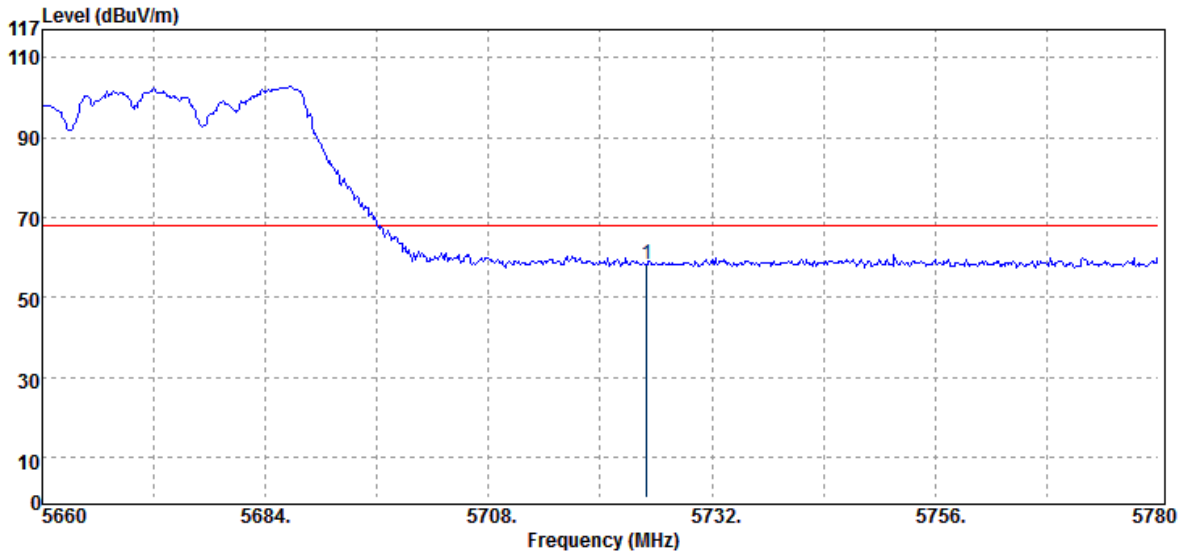
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	48.89	9.44	58.33	68.20	-9.87

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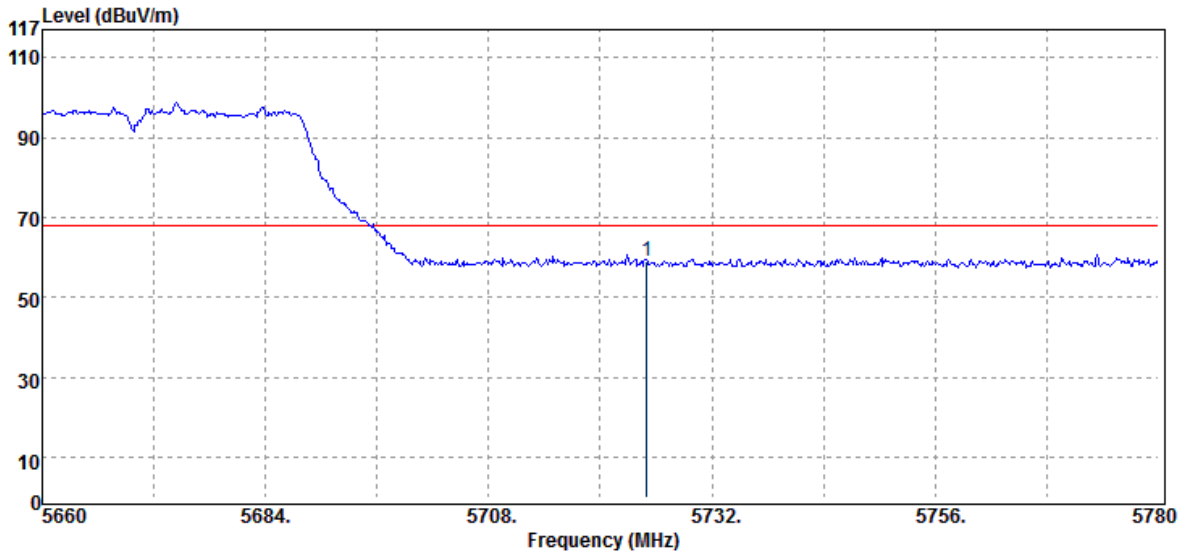
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5725.00	Peak	49.82	9.44	59.26	68.20	-8.94

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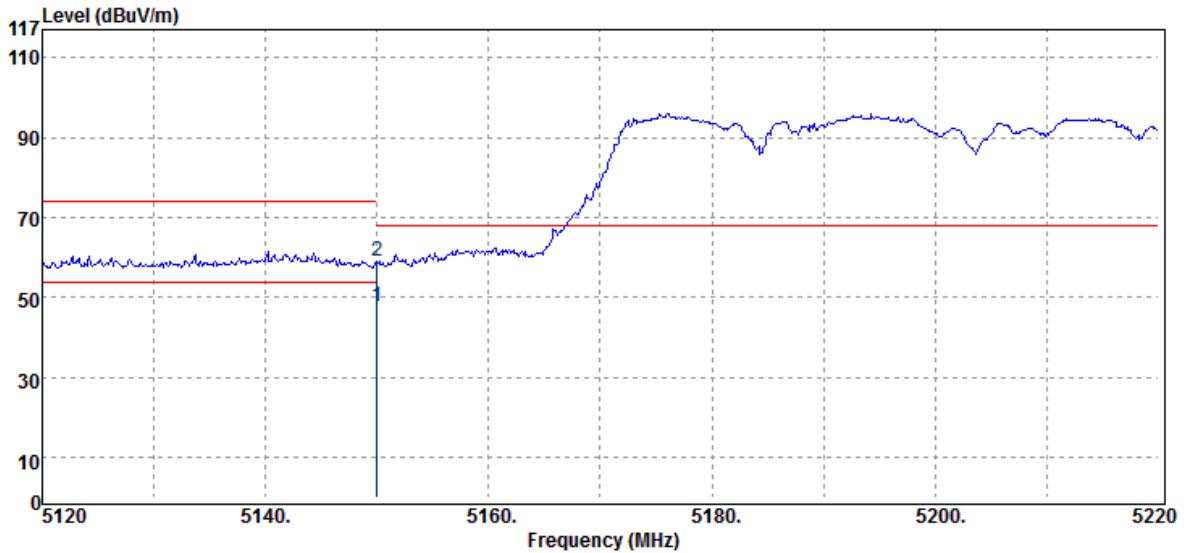
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**802.11ac VHT80 mode**

Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	39.32	8.32	47.64	54.00	-6.36
5150.00	Peak	50.96	8.32	59.28	74.00	-14.72

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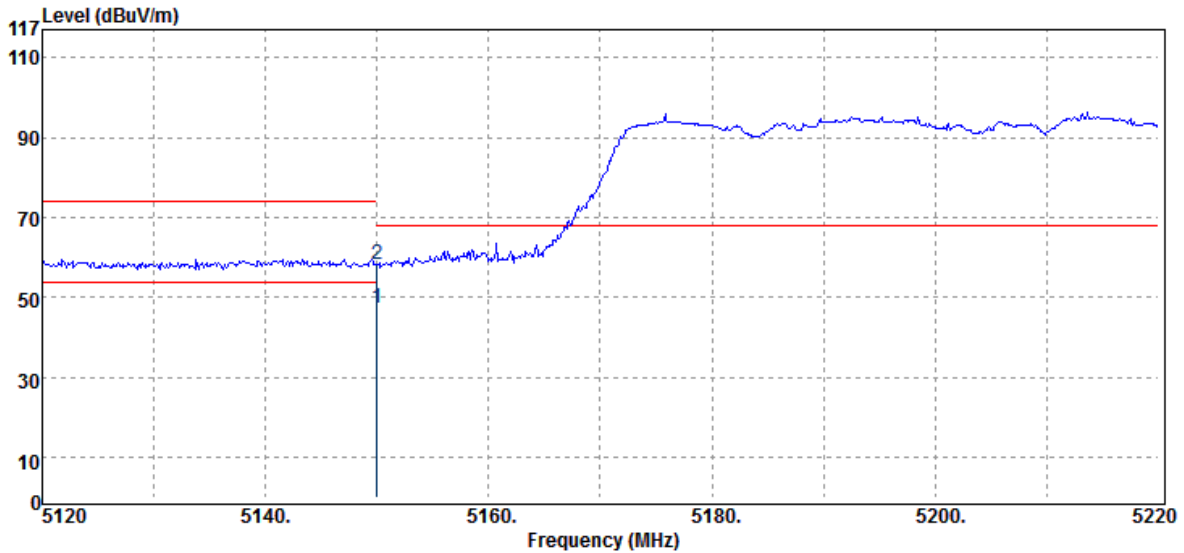
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Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	Average	39.05	8.32	47.37	54.00	-6.63
5150.00	Peak	49.90	8.32	58.22	74.00	-15.78

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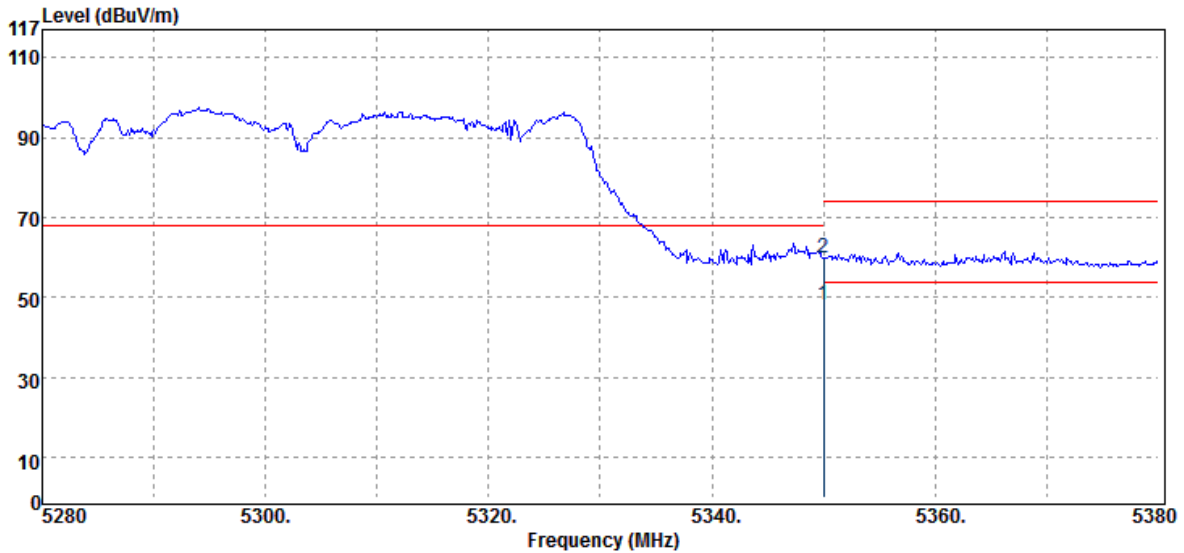
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Member of SGS Group

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

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	39.54	8.63	48.17	54.00	-5.83
5350.00	Peak	51.48	8.63	60.11	74.00	-13.89

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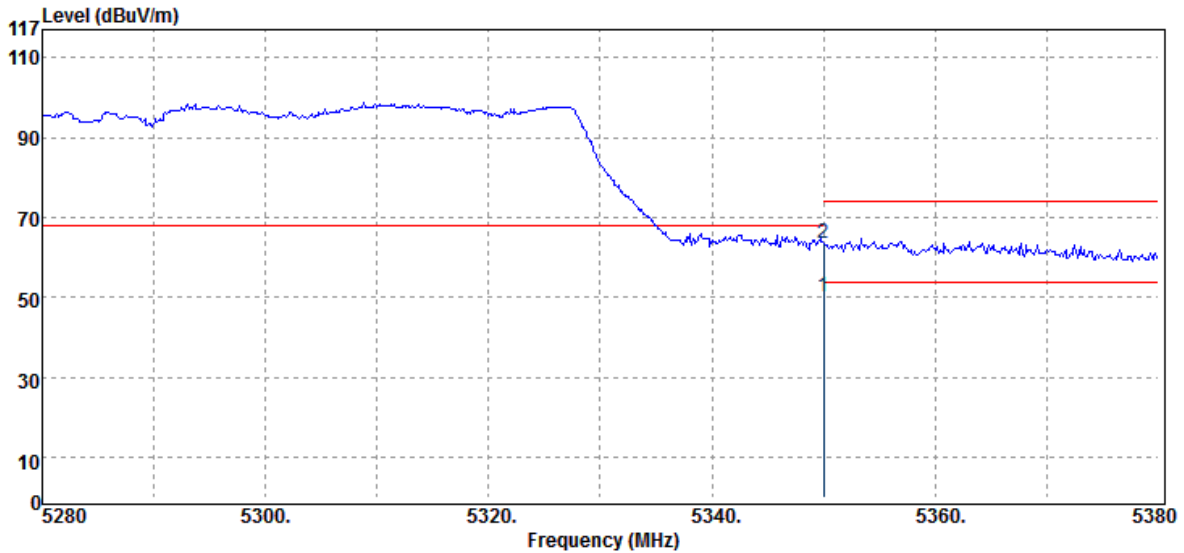
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Operation Band	:802.11ac80B2	Test Date	:2018-09-24
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5350.00	Average	41.71	8.63	50.34	54.00	-3.66
5350.00	Peak	54.96	8.63	63.59	74.00	-10.41

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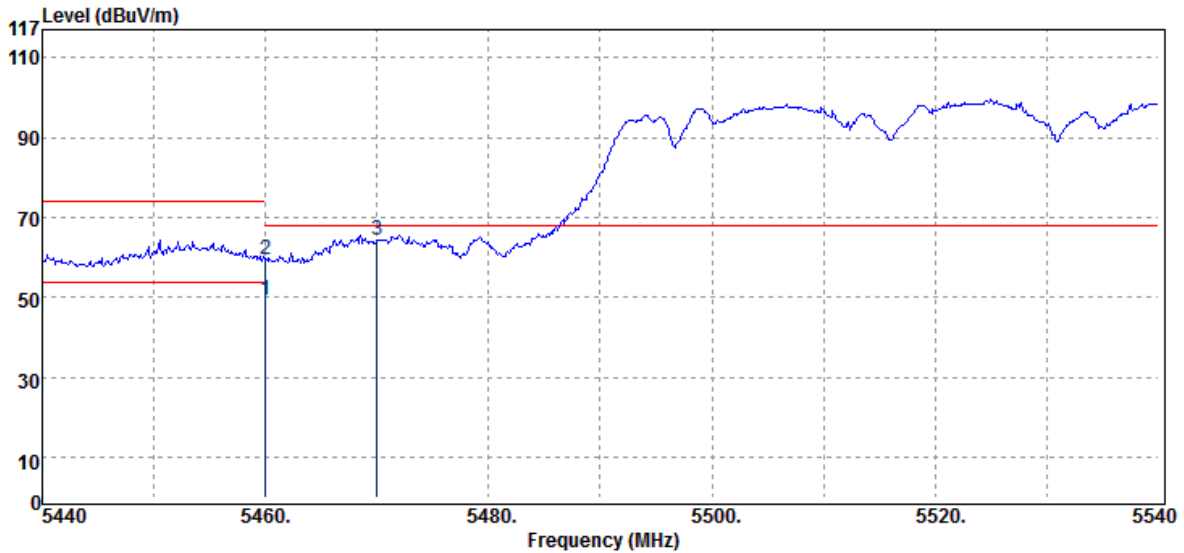
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	40.53	8.75	49.28	54.00	-4.72
5460.00	Peak	50.78	8.75	59.53	74.00	-14.47
5470.00	Peak	55.81	8.74	64.55	68.20	-3.65

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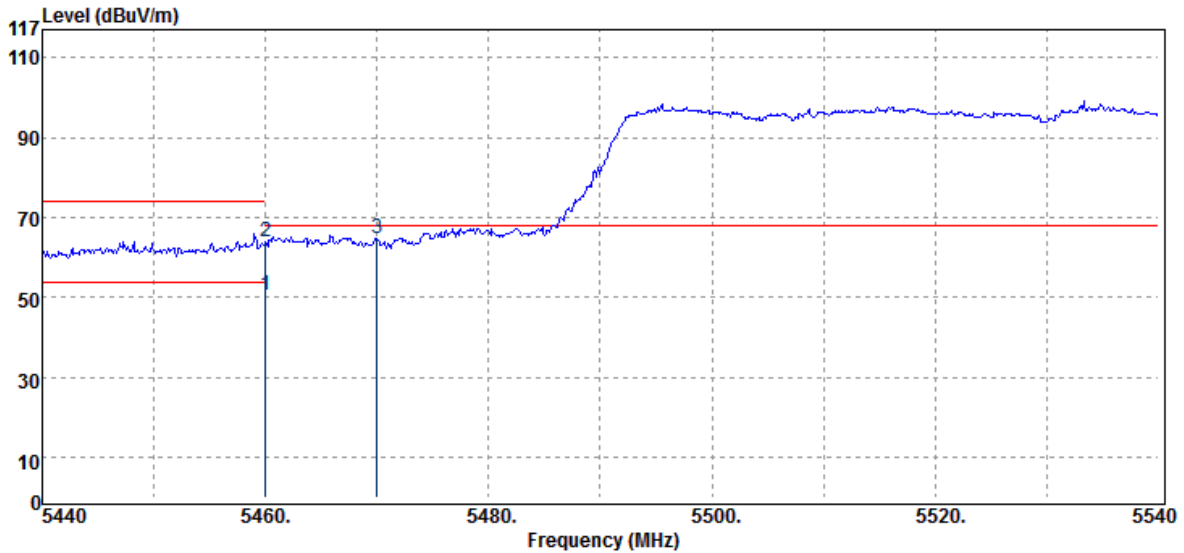
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-24  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Tin  
 Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	Average	41.82	8.75	50.57	54.00	-3.43
5460.00	Peak	55.42	8.75	64.17	74.00	-9.83
5470.00	Peak	56.11	8.74	64.85	68.20	-3.35

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## 12. TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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## 13. FREQUENCY STABILITY

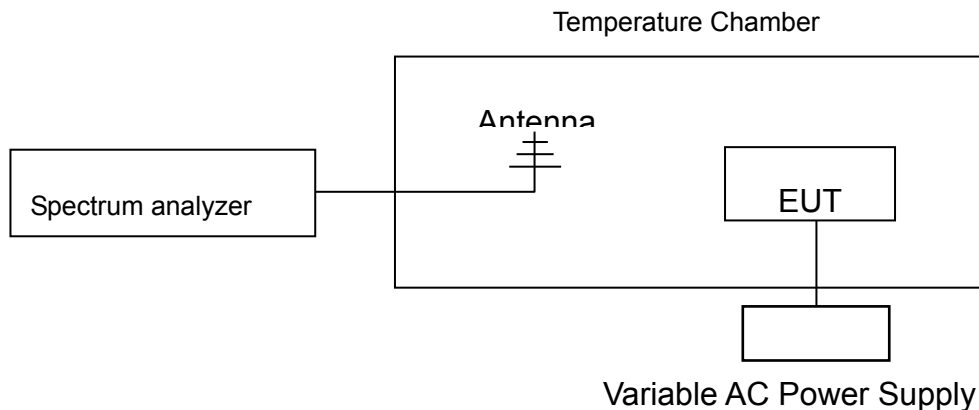
### 13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

### 13.3 Test SET-UP



### 13.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	02/14/2018	02/13/2019
DC Power Supply	Anritsu	E3640A	MY52410006	11/28/2017	11/27/2018
Temperature Chamber	TERCHY	MHG-120LF	911009	05/18/2018	05/17/2019
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
Notebook	Lenovo	T440P	P0000564	N/A	N/A

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### 13.5 Measurement Result

#### Startup:

Operation Mode	802.11 a	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	36	5180	5,179.99034	0.00000186
		44	5220	5,219.99158	0.00000161
		48	5240	5,240.00846	-0.00000161
		52	5260	5,260.00945	-0.00000180
		60	5300	5,299.99615	0.00000073
		64	5320	5,320.00641	-0.00000121
		100	5500	5,499.99605	0.00000072
		116	5580	5,579.99450	0.00000099
		140	5700	5,699.99416	0.00000102
	3.27V	36	5180	5,180.00899	-0.00000174
		44	5220	5,219.99298	0.00000135
		48	5240	5,239.99641	0.00000069
		52	5260	5,260.00369	-0.00000070
		60	5300	5,299.99333	0.00000126
		64	5320	5,319.99425	0.00000108
		100	5500	5,499.99921	0.00000014
		116	5580	5,579.99844	0.00000028
		140	5700	5,700.00985	-0.00000173

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25 °C	3.85V	36	5180	5,180.00499	-0.00000096
		44	5220	5,219.99427	0.00000110
		48	5240	5,240.00954	-0.00000182
		52	5260	5,260.00703	-0.00000134
		60	5300	5,299.99970	0.00000006
		64	5320	5,319.99516	0.00000091
		100	5500	5,500.00269	-0.00000049
		116	5580	5,579.99538	0.00000083
55 °C	4.43V	140	5700	5,699.99347	0.00000114
		36	5180	5,179.99421	0.00000112
		44	5220	5,219.99313	0.00000132
		48	5240	5,239.99770	0.00000044
		52	5260	5,260.00914	-0.00000174
		60	5300	5,299.99578	0.00000080
		64	5320	5,319.99278	0.00000136
		100	5500	5,499.99065	0.00000170
	3.27V	116	5580	5,580.00258	-0.00000046
		140	5700	5,700.00114	-0.00000020
		36	5180	5,180.00559	-0.00000108
		44	5220	5,220.00699	-0.00000134
		48	5240	5,239.99147	0.00000163
		52	5260	5,260.00240	-0.00000046
		60	5300	5,300.00040	-0.00000008
		64	5320	5,319.99965	0.00000007
		100	5500	5,500.00521	-0.00000095
		116	5580	5,579.99061	0.00000168
140	5700	5,699.99994	0.00000001		

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Operation Mode	802.11 n_HT40	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	38	5190	5,190.00647	-0.00000125
		46	5230	5,229.99344	0.00000125
		54	5270	5,270.00018	-0.00000003
		62	5310	5,310.00555	-0.00000105
		102	5510	5,510.00526	-0.00000095
		110	5550	5,549.99151	0.00000153
		134	5670	5,670.00061	-0.00000011
	3.27V	38	5190	5,190.00810	-0.00000156
		46	5230	5,230.00995	-0.00000190
		54	5270	5,270.00140	-0.00000027
		62	5310	5,309.99253	0.00000141
		102	5510	5,509.99486	0.00000093
		110	5550	5,549.99227	0.00000139
		134	5670	5,670.00227	-0.00000040

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25 °C	3.85V	38	5190	5,190.00144	-0.00000028
		46	5230	5,230.00487	-0.00000093
		54	5270	5,269.99397	0.00000114
		62	5310	5,309.99581	0.00000079
		102	5510	5,509.99387	0.00000111
		110	5550	5,550.00737	-0.00000133
		134	5670	5,670.00545	-0.00000096
55 °C	4.43V	38	5190	5,190.00667	-0.00000129
		46	5230	5,229.99442	0.00000107
		54	5270	5,269.99106	0.00000170
		62	5310	5,310.00092	-0.00000017
		102	5510	5,509.99264	0.00000134
		110	5550	5,549.99159	0.00000152
		134	5670	5,669.99611	0.00000069
	3.27V	38	5190	5,190.00933	-0.00000180
		46	5230	5,229.99429	0.00000109
		54	5270	5,269.99864	0.00000026
		62	5310	5,309.99049	0.00000179
		102	5510	5,510.00472	-0.00000086
		110	5550	5,549.99002	0.00000180
		134	5670	5,670.00781	-0.00000138

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	42	5210	5,209.99484	0.00000099
		58	5290	5,289.99036	0.00000182
		106	5530	5,530.00693	-0.00000125
		122	5610	5,610.00512	-0.00000091
	3.27V	42	5210	5,210.00141	-0.00000027
		58	5290	5,290.00763	-0.00000144
		106	5530	5,530.00666	-0.00000120
		122	5610	5,609.99422	0.00000103
25 °C	3.85V	42	5210	5,210.00596	-0.00000114
		58	5290	5,289.99571	0.00000081
		106	5530	5,529.99181	0.00000148
		122	5610	5,610.00007	-0.00000001
55 °C	4.43V	42	5210	5,210.00220	-0.00000042
		58	5290	5,290.00064	-0.00000012
		106	5530	5,529.99565	0.00000079
		122	5610	5,610.00264	-0.00000047
	3.27V	42	5210	5,210.00291	-0.00000056
		58	5290	5,290.00886	-0.00000167
		106	5530	5,530.00331	-0.00000060
		122	5610	5,610.00619	-0.00000110

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**2 Minutes:**

Operation Mode	802.11 a	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	36	5180	5,180.00136	-0.00000026
		44	5220	5,220.00755	-0.00000145
		48	5240	5,240.00619	-0.00000118
		52	5260	5,260.00048	-0.00000009
		60	5300	5,300.00311	-0.00000059
		64	5320	5,319.99226	0.00000145
		100	5500	5,499.99526	0.00000086
		116	5580	5,580.00014	-0.00000003
		140	5700	5,700.00934	-0.00000164
	3.27V	36	5180	5,180.00173	-0.00000033
		44	5220	5,219.99037	0.00000185
		48	5240	5,239.99012	0.00000188
		52	5260	5,260.00829	-0.00000158
		60	5300	5,299.99264	0.00000139
		64	5320	5,320.00483	-0.00000091
		100	5500	5,500.00564	-0.00000103
		116	5580	5,579.99127	0.00000156
		140	5700	5,700.00806	-0.00000141

25 °C	3.85V	36	5180	5,179.99225	0.00000150
		44	5220	5,220.00159	-0.00000030
		48	5240	5,239.99114	0.00000169
		52	5260	5,259.99359	0.00000122
		60	5300	5,300.00545	-0.00000103
		64	5320	5,319.99262	0.00000139
		100	5500	5,499.99685	0.00000057
		116	5580	5,579.99712	0.00000052
		140	5700	5,699.99412	0.00000103

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55 °C	4.43V	36	5180	5,179.99169	0.00000160
		44	5220	5,219.99741	0.00000050
		48	5240	5,239.99454	0.00000104
		52	5260	5,259.99251	0.00000142
		60	5300	5,300.00651	-0.00000123
		64	5320	5,320.00160	-0.00000030
		100	5500	5,500.00225	-0.00000041
		116	5580	5,579.99905	0.00000017
		140	5700	5,700.00698	-0.00000122
	3.27V	36	5180	5,179.99826	0.00000034
		44	5220	5,220.00260	-0.00000050
		48	5240	5,239.99705	0.00000056
		52	5260	5,259.99052	0.00000180
		60	5300	5,300.00158	-0.00000030
		64	5320	5,320.00943	-0.00000177
		100	5500	5,499.99325	0.00000123
		116	5580	5,579.99833	0.00000030
		140	5700	5,699.99420	0.00000102

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Operation Mode	802.11 n_HT40	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	38	5190	5,190.00718	-0.00000138
		46	5230	5,230.00851	-0.00000163
		54	5270	5,269.99515	0.00000092
		62	5310	5,309.99716	0.00000053
		102	5510	5,510.00747	-0.00000136
		110	5550	5,549.99683	0.00000057
	3.27V	134	5670	5,670.00093	-0.00000016
		38	5190	5,189.99328	0.00000130
		46	5230	5,230.00275	-0.00000053
		54	5270	5,269.99061	0.00000178
		62	5310	5,310.00525	-0.00000099
		102	5510	5,510.00874	-0.00000159
		110	5550	5,550.00846	-0.00000152
		134	5670	5,670.00333	-0.00000059

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25 °C	3.85V	38	5190	5,189.99983	0.00000003
		46	5230	5,230.00493	-0.00000094
		54	5270	5,269.99441	0.00000106
		62	5310	5,310.00754	-0.00000142
		102	5510	5,510.00817	-0.00000148
		110	5550	5,550.00193	-0.00000035
		134	5670	5,670.00952	-0.00000168
55 °C	4.43V	38	5190	5,189.99125	0.00000169
		46	5230	5,229.99468	0.00000102
		54	5270	5,269.99096	0.00000172
		62	5310	5,309.99978	0.00000004
		102	5510	5,510.00296	-0.00000054
		110	5550	5,550.00923	-0.00000166
		134	5670	5,669.99682	0.00000056
	3.27V	38	5190	5,189.99915	0.00000016
		46	5230	5,230.00532	-0.00000102
		54	5270	5,269.99228	0.00000147
		62	5310	5,310.00590	-0.00000111
		102	5510	5,509.99874	0.00000023
		110	5550	5,549.99611	0.00000070
		134	5670	5,670.00345	-0.00000061

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	42	5210	5,210.00355	-0.00000068
		58	5290	5,289.99358	0.00000121
		106	5530	5,530.00334	-0.00000060
		122	5610	5,610.00338	-0.00000060
	3.27V	42	5210	5,210.00074	-0.00000014
		58	5290	5,290.00526	-0.00000100
		106	5530	5,530.00582	-0.00000105
		122	5610	5,610.00027	-0.00000005
25 °C	3.85V	42	5210	5,210.00132	-0.00000025
		58	5290	5,289.99604	0.00000075
		106	5530	5,530.00631	-0.00000114
		122	5610	5,610.00550	-0.00000098
55 °C	4.43V	42	5210	5,210.00620	-0.00000119
		58	5290	5,289.99513	0.00000092
		106	5530	5,529.99195	0.00000146
		122	5610	5,609.99825	0.00000031
	3.27V	42	5210	5,210.00753	-0.00000144
		58	5290	5,289.99293	0.00000134
		106	5530	5,529.99238	0.00000138
		122	5610	5,610.00102	-0.00000018

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**5 Minutes:**

Operation Mode	802.11 a	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	36	5180	5,180.00913	-0.00000176
		44	5220	5,220.00723	-0.00000138
		48	5240	5,239.99360	0.00000122
		52	5260	5,260.00874	-0.00000166
		60	5300	5,300.00502	-0.00000095
		64	5320	5,319.99370	0.00000118
		100	5500	5,500.00580	-0.00000105
		116	5580	5,580.00876	-0.00000157
		140	5700	5,699.99117	0.00000155
	3.27V	36	5180	5,179.99207	0.00000153
		44	5220	5,220.00920	-0.00000176
		48	5240	5,239.99025	0.00000186
		52	5260	5,259.99897	0.00000020
		60	5300	5,300.00304	-0.00000057
		64	5320	5,320.00224	-0.00000042
		100	5500	5,499.99601	0.00000073
		116	5580	5,580.00609	-0.00000109
		140	5700	5,699.99279	0.00000126

25 °C	3.85V	36	5180	5,179.99057	0.00000182
		44	5220	5,219.99870	0.00000025
		48	5240	5,240.00887	-0.00000169
		52	5260	5,260.00950	-0.00000181
		60	5300	5,300.00770	-0.00000145
		64	5320	5,320.00232	-0.00000044
		100	5500	5,499.99492	0.00000092
		116	5580	5,579.99993	0.00000001
		140	5700	5,699.99140	0.00000151

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55 °C	4.43V	36	5180	5,179.99572	0.00000083
		44	5220	5,219.99322	0.00000130
		48	5240	5,240.00389	-0.00000074
		52	5260	5,260.00455	-0.00000086
		60	5300	5,299.99020	0.00000185
		64	5320	5,320.00516	-0.00000097
		100	5500	5,499.99911	0.00000016
		116	5580	5,579.99829	0.00000031
		140	5700	5,699.99324	0.00000119
	3.27V	36	5180	5,179.99295	0.00000136
		44	5220	5,219.99250	0.00000144
		48	5240	5,240.00227	-0.00000043
		52	5260	5,259.99230	0.00000146
		60	5300	5,299.99890	0.00000021
		64	5320	5,320.00880	-0.00000165
		100	5500	5,500.00325	-0.00000059
		116	5580	5,579.99211	0.00000141
		140	5700	5,700.00131	-0.00000023

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Operation Mode	802.11 n_HT40	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	38	5190	5,189.99489	0.00000099
		46	5230	5,230.00839	-0.00000160
		54	5270	5,269.99753	0.00000047
		62	5310	5,309.99535	0.00000088
		102	5510	5,510.00879	-0.00000160
		110	5550	5,549.99794	0.00000037
	3.27V	134	5670	5,669.99588	0.00000073
		38	5190	5,189.99759	0.00000046
		46	5230	5,229.99463	0.00000103
		54	5270	5,269.99195	0.00000153
		62	5310	5,309.99435	0.00000106
		102	5510	5,510.00310	-0.00000056
		110	5550	5,550.00193	-0.00000035
		134	5670	5,669.99580	0.00000074

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25 °C	3.85V	38	5190	5,190.00030	-0.00000006
		46	5230	5,229.99873	0.00000024
		54	5270	5,270.00388	-0.00000074
		62	5310	5,310.00962	-0.00000181
		102	5510	5,510.00231	-0.00000042
		110	5550	5,549.99626	0.00000067
		134	5670	5,670.00621	-0.00000110
55 °C	4.43V	38	5190	5,189.99779	0.00000043
		46	5230	5,230.00353	-0.00000067
		54	5270	5,270.00125	-0.00000024
		62	5310	5,309.99571	0.00000081
		102	5510	5,509.99826	0.00000032
		110	5550	5,550.00021	-0.00000004
		134	5670	5,669.99159	0.00000148
	3.27V	38	5190	5,189.99311	0.00000133
		46	5230	5,230.00847	-0.00000162
		54	5270	5,270.00336	-0.00000064
		62	5310	5,309.99104	0.00000169
		102	5510	5,510.00756	-0.00000137
		110	5550	5,550.00839	-0.00000151
		134	5670	5,669.99331	0.00000118

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	42	5210	5,210.00698	-0.00000134
		58	5290	5,290.00945	-0.00000179
		106	5530	5,530.00798	-0.00000144
		122	5610	5,609.99910	0.00000016
	3.27V	42	5210	5,210.00221	-0.00000042
		58	5290	5,289.99158	0.00000159
		106	5530	5,530.00004	-0.00000001
		122	5610	5,610.00623	-0.00000111
25 °C	3.85V	42	5210	5,209.99215	0.00000151
		58	5290	5,290.00714	-0.00000135
		106	5530	5,530.00940	-0.00000170
		122	5610	5,609.99444	0.00000099
55 °C	4.43V	42	5210	5,210.00683	-0.00000131
		58	5290	5,289.99525	0.00000090
		106	5530	5,529.99291	0.00000128
		122	5610	5,610.00651	-0.00000116
	3.27V	42	5210	5,210.00319	-0.00000061
		58	5290	5,289.99339	0.00000125
		106	5530	5,530.00259	-0.00000047
		122	5610	5,609.99158	0.00000150

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Operation Mode	802.11 a	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	36	5180	5,179.99706	0.00000057
		44	5220	5,220.00135	-0.00000026
		48	5240	5,239.99026	0.00000186
		52	5260	5,259.99559	0.00000084
		60	5300	5,299.99342	0.00000124
		64	5320	5,320.00713	-0.00000134
		100	5500	5,500.00616	-0.00000112
		116	5580	5,580.00011	-0.00000002
	140	5700	5,700.00262	-0.00000046	
	3.27V	36	5180	5,180.00148	-0.00000029
		44	5220	5,220.00060	-0.00000011
		48	5240	5,240.00783	-0.00000149
		52	5260	5,259.99038	0.00000183
		60	5300	5,300.00847	-0.00000160
		64	5320	5,319.99807	0.00000036
		100	5500	5,500.00871	-0.00000158
116		5580	5,580.00932	-0.00000167	
140	5700	5,700.00234	-0.00000041		

25 °C	3.85V	36	5180	5,180.00767	-0.00000148
		44	5220	5,219.99531	0.00000090
		48	5240	5,239.99779	0.00000042
		52	5260	5,259.99015	0.00000187
		60	5300	5,300.00877	-0.00000165
		64	5320	5,320.00813	-0.00000153
		100	5500	5,500.00728	-0.00000132
		116	5580	5,579.99395	0.00000108
140	5700	5,700.00890	-0.00000156		

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55 °C	4.43V	36	5180	5,179.99700	0.00000058
		44	5220	5,220.00002	0.00000000
		48	5240	5,239.99621	0.00000072
		52	5260	5,260.00498	-0.00000095
		60	5300	5,299.99248	0.00000142
		64	5320	5,320.00369	-0.00000069
		100	5500	5,500.00889	-0.00000162
		116	5580	5,579.99368	0.00000113
		140	5700	5,699.99385	0.00000108
	3.27V	36	5180	5,180.00441	-0.00000085
		44	5220	5,220.00199	-0.00000038
		48	5240	5,240.00637	-0.00000122
		52	5260	5,260.00870	-0.00000165
		60	5300	5,300.00528	-0.00000100
		64	5320	5,319.99520	0.00000090
		100	5500	5,500.00628	-0.00000114
		116	5580	5,580.00497	-0.00000089
		140	5700	5,699.99286	0.00000125

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Operation Mode	802.11 n_HT40	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	38	5190	5,190.00397	-0.00000077
		46	5230	5,230.00901	-0.00000172
		54	5270	5,269.99987	0.00000003
		62	5310	5,309.99351	0.00000122
		102	5510	5,509.99976	0.00000004
		110	5550	5,550.00600	-0.00000108
		134	5670	5,670.00540	-0.00000095
	3.27V	38	5190	5,190.00592	-0.00000114
		46	5230	5,230.00888	-0.00000170
		54	5270	5,269.99249	0.00000143
		62	5310	5,310.00662	-0.00000125
		102	5510	5,510.00522	-0.00000095
		110	5550	5,549.99206	0.00000143
		134	5670	5,669.99856	0.00000025

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25 °C	3.85V	38	5190	5,190.00192	-0.00000037
		46	5230	5,229.99193	0.00000154
		54	5270	5,270.00602	-0.00000114
		62	5310	5,309.99238	0.00000144
		102	5510	5,510.00591	-0.00000107
		110	5550	5,550.00273	-0.00000049
		134	5670	5,669.99416	0.00000103
55 °C	4.43V	38	5190	5,190.00105	-0.00000020
		46	5230	5,229.99844	0.00000030
		54	5270	5,270.00700	-0.00000133
		62	5310	5,310.00337	-0.00000063
		102	5510	5,510.00391	-0.00000071
		110	5550	5,550.00747	-0.00000135
		134	5670	5,670.00670	-0.00000118
	3.27V	38	5190	5,189.99525	0.00000091
		46	5230	5,230.00312	-0.00000060
		54	5270	5,269.99905	0.00000018
		62	5310	5,309.99795	0.00000039
		102	5510	5,509.99343	0.00000119
		110	5550	5,549.99012	0.00000178
		134	5670	5,670.00607	-0.00000107

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Operation Mode	802.11 ac_VHT80	Test Date	2018.09.13
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	4.43V	42	5210	5,209.99414	0.00000112
		58	5290	5,290.00462	-0.00000087
		106	5530	5,530.00839	-0.00000152
		122	5610	5,610.00046	-0.00000008
	3.27V	42	5210	5,210.00185	-0.00000035
		58	5290	5,289.99560	0.00000083
		106	5530	5,530.00347	-0.00000063
		122	5610	5,609.99596	0.00000072
25 °C	3.85V	42	5210	5,209.99130	0.00000167
		58	5290	5,290.00281	-0.00000053
		106	5530	5,530.00273	-0.00000049
		122	5610	5,609.99970	0.00000005
55 °C	4.43V	42	5210	5,210.00305	-0.00000058
		58	5290	5,289.99016	0.00000186
		106	5530	5,529.99146	0.00000154
		122	5610	5,609.99399	0.00000107
	3.27V	42	5210	5,210.00893	-0.00000171
		58	5290	5,289.99039	0.00000182
		106	5530	5,529.99953	0.00000008
		122	5610	5,610.00355	-0.00000063

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## 14. ANTENNA REQUIREMENT

### 14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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