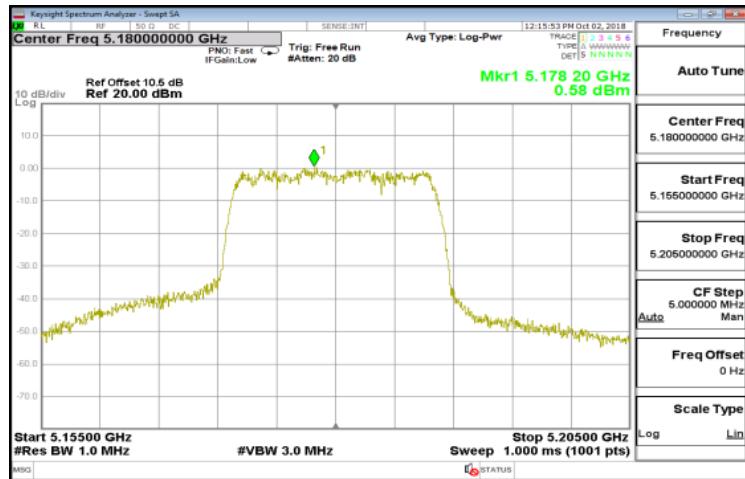
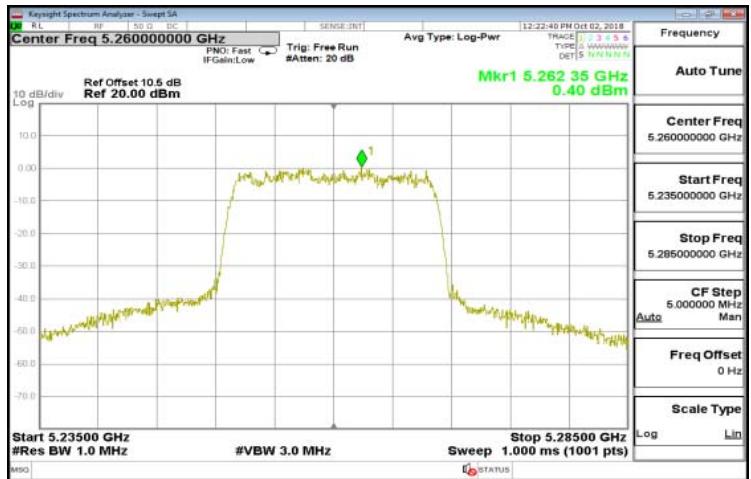




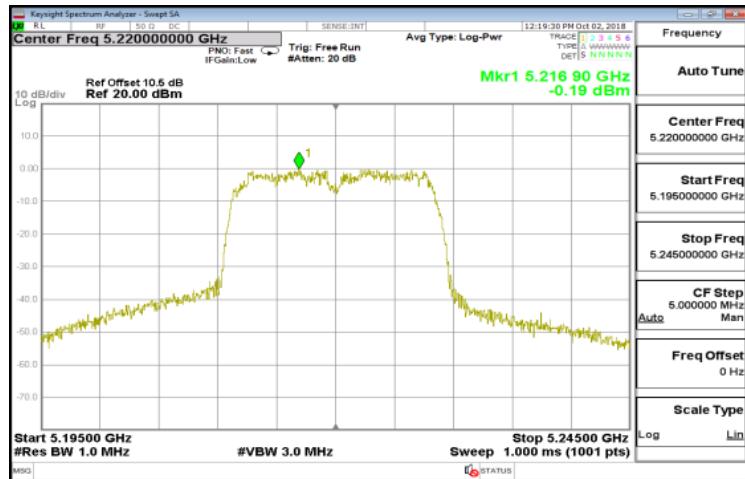
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### 802.11a\_20MHz\_5260MHz



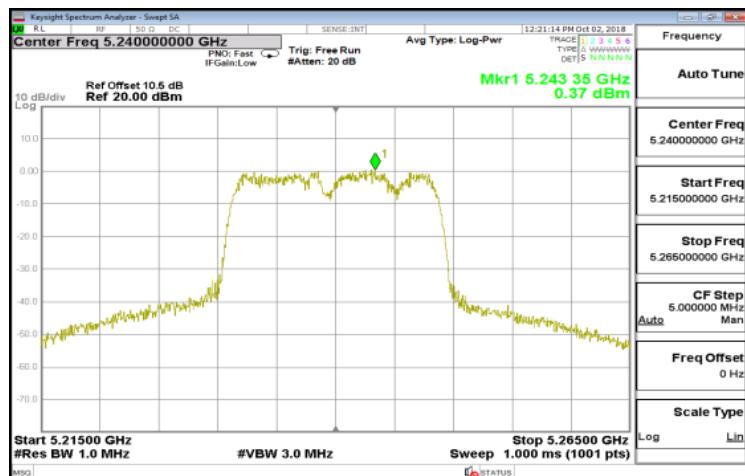
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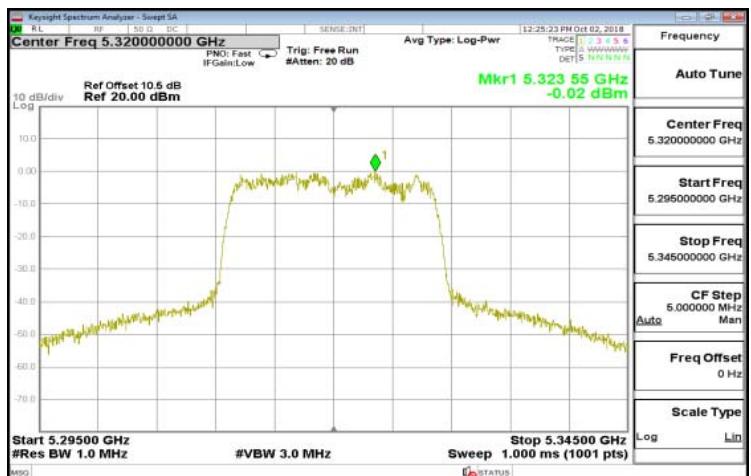
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### 802.11a\_20MHz\_5240MHz



### 802.11a\_20MHz\_5320MHz



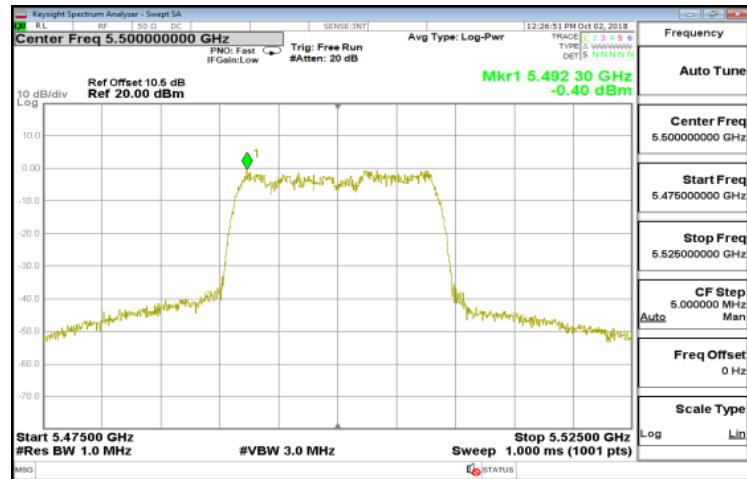
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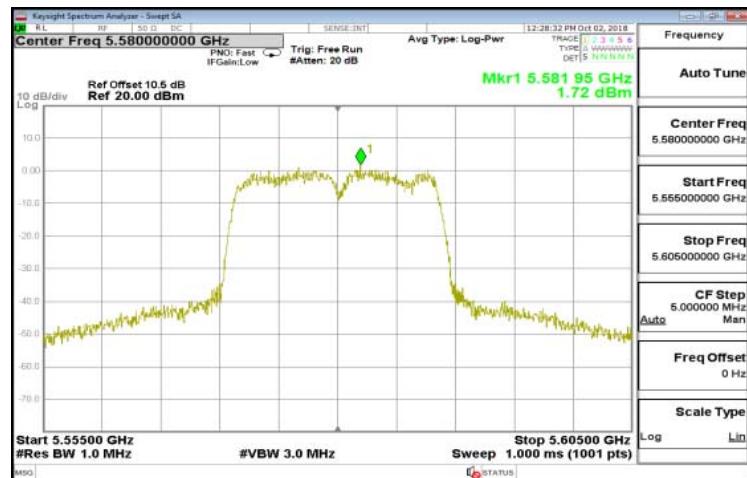
802.11a\_20MHz\_5500MHz



802.11a\_20MHz\_5720MHz



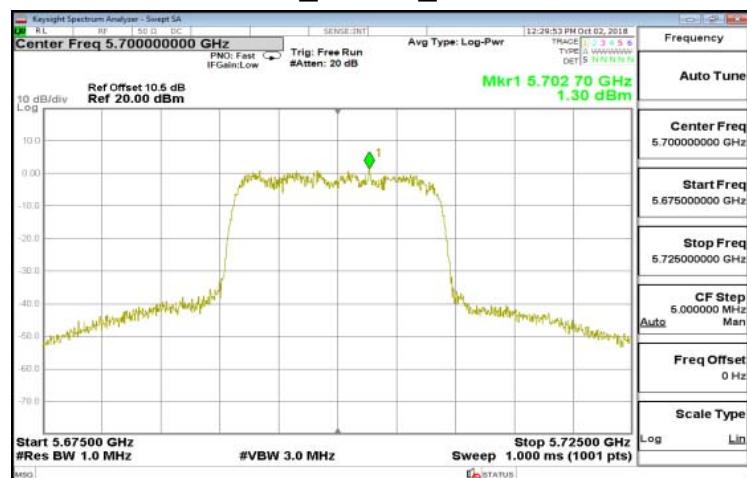
802.11a\_20MHz\_5580MHz



802.11a\_20MHz\_5745MHz



802.11a\_20MHz\_5700MHz



802.11a\_20MHz\_5785MHz



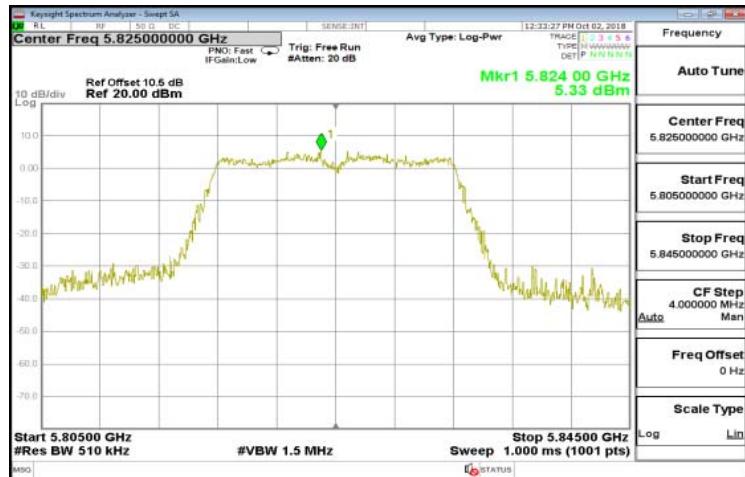
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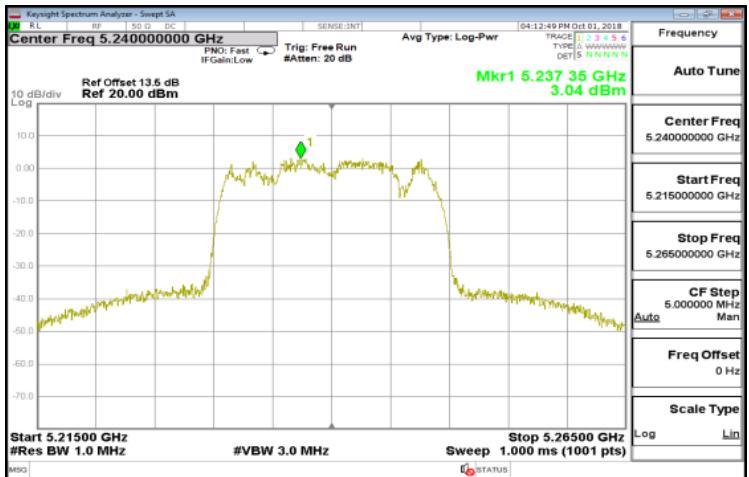
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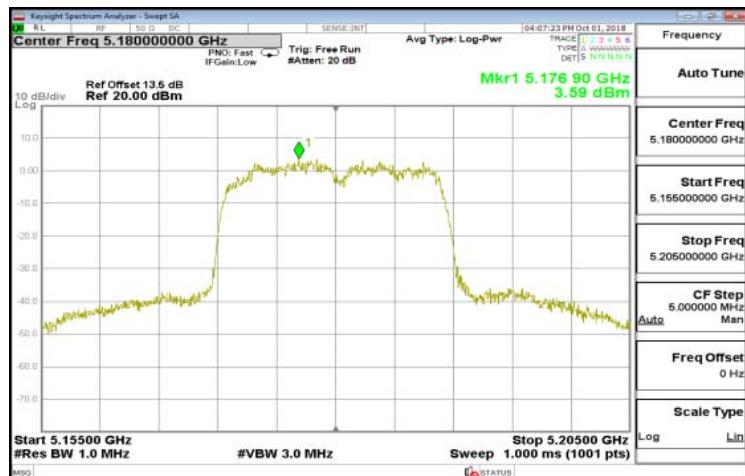
802.11a\_20MHz\_5825MHz



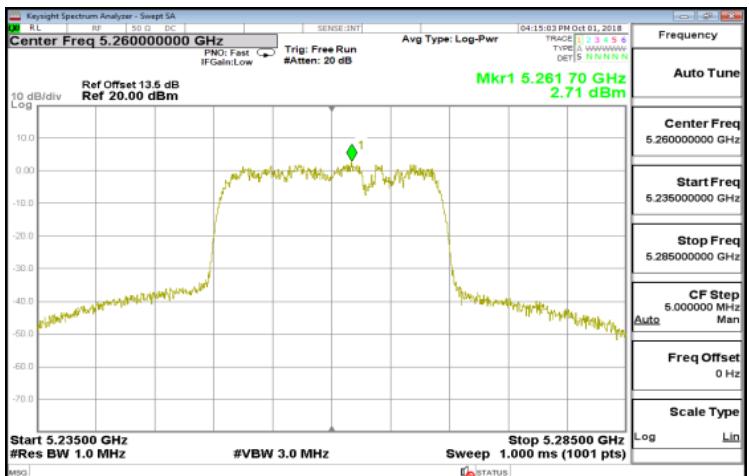
802.11n\_20MHz\_5240MHz



802.11n\_20MHz\_5180MHz



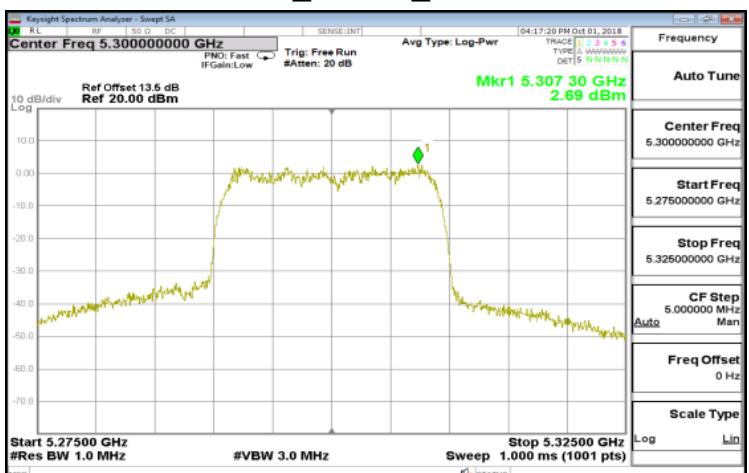
802.11n\_20MHz\_5260MHz



802.11n\_20MHz\_5220MHz



802.11n\_20MHz\_5300MHz



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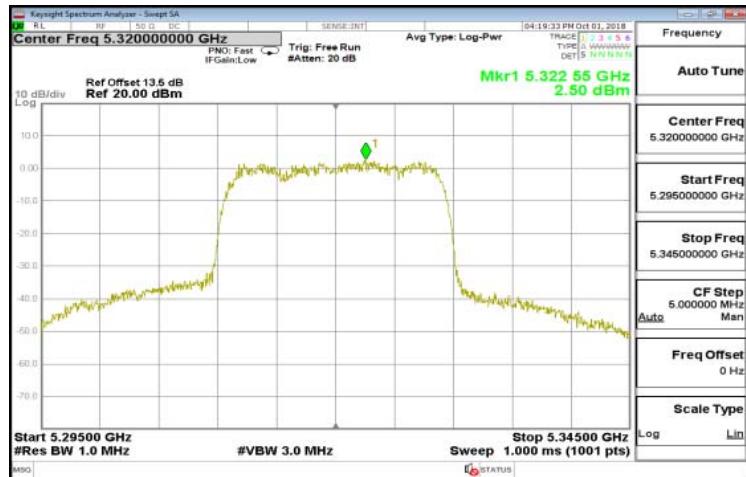
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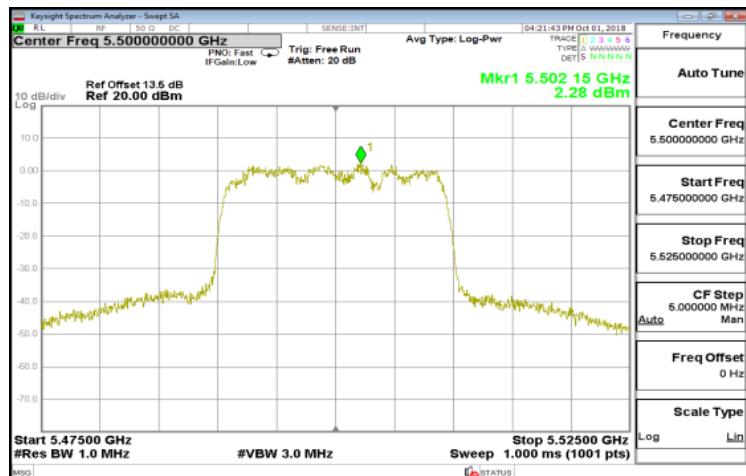
802.11n\_20MHz\_5320MHz



802.11n\_20MHz\_5700MHz



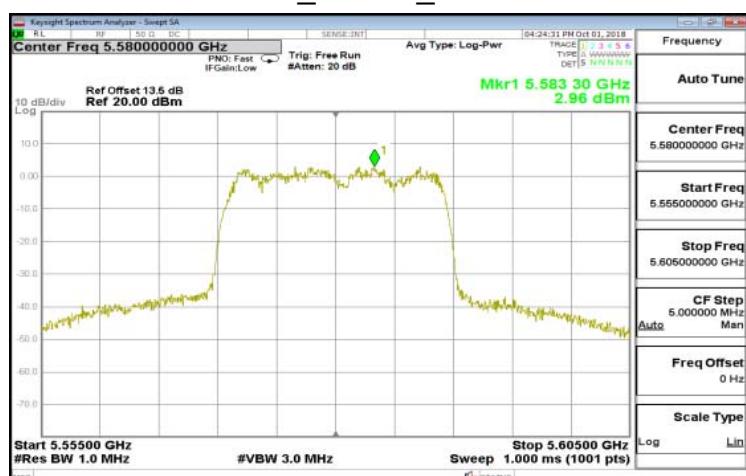
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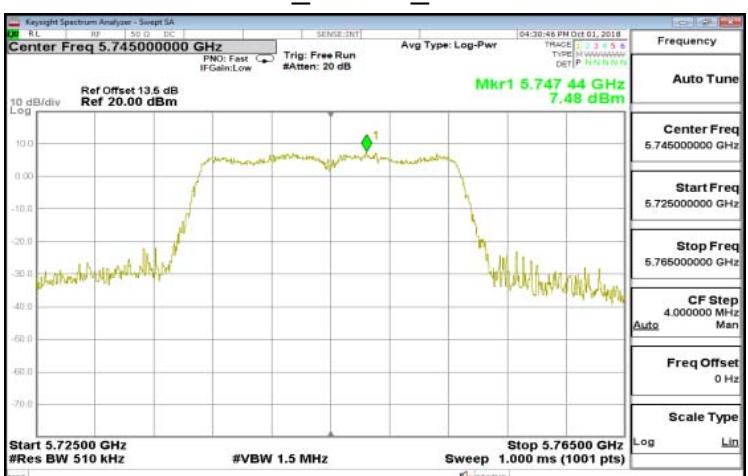
802.11n\_20MHz\_5720MHz



802.11n\_20MHz\_5580MHz



802.11n\_20MHz\_5745MHz



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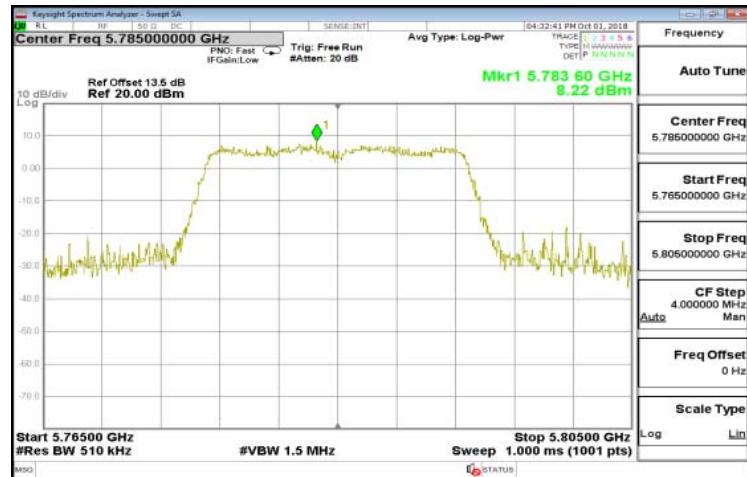
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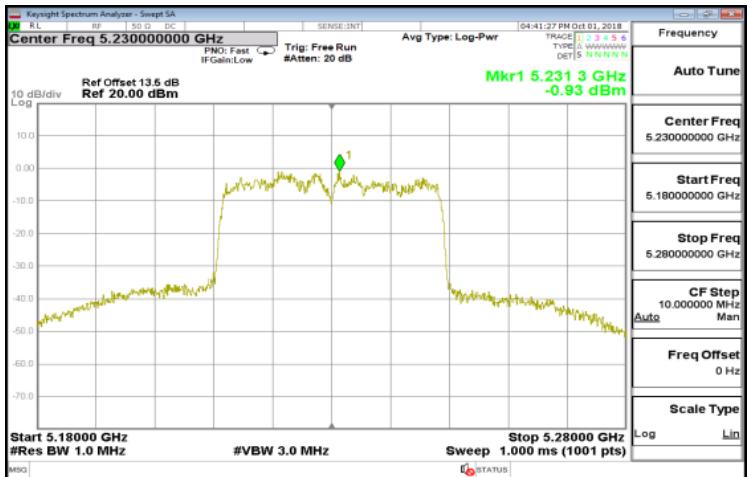
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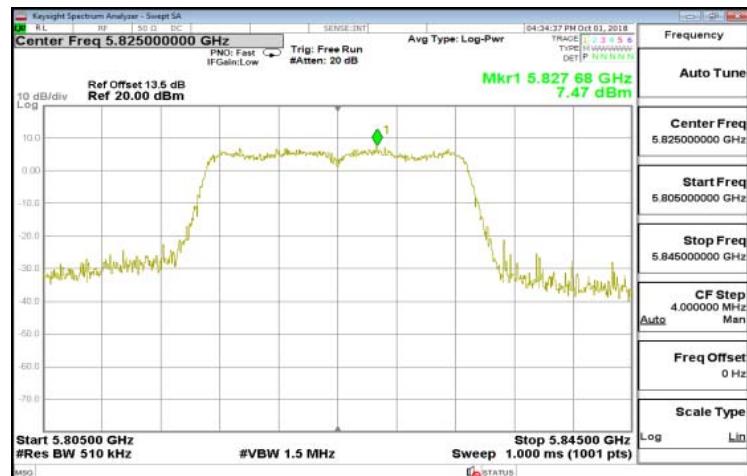
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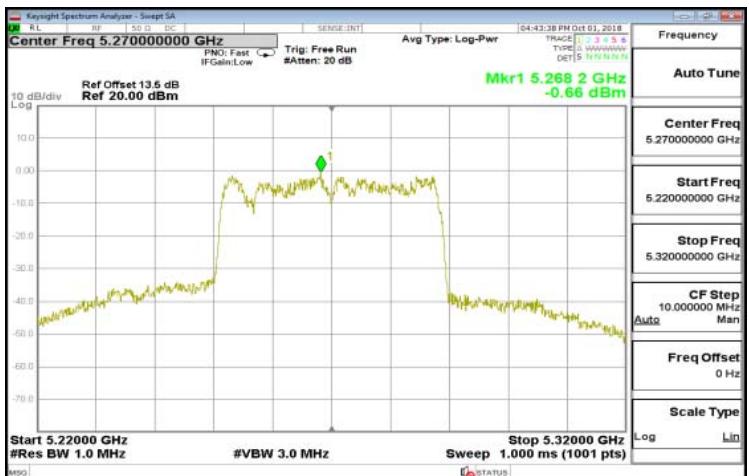
802.11n\_40MHz\_5230MHz



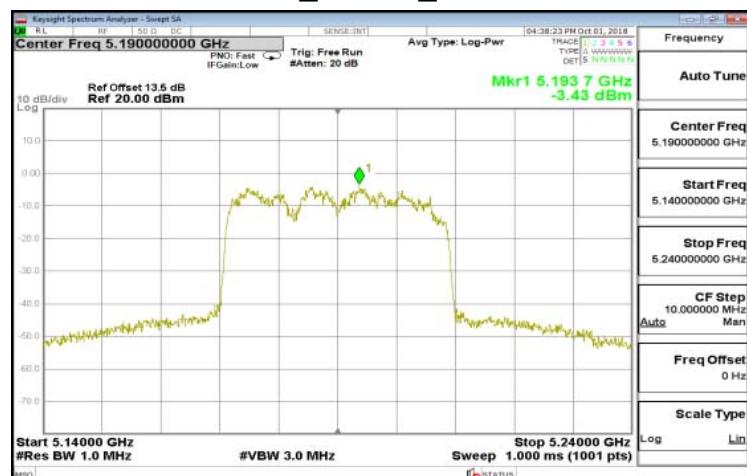
802.11n\_20MHz\_5825MHz



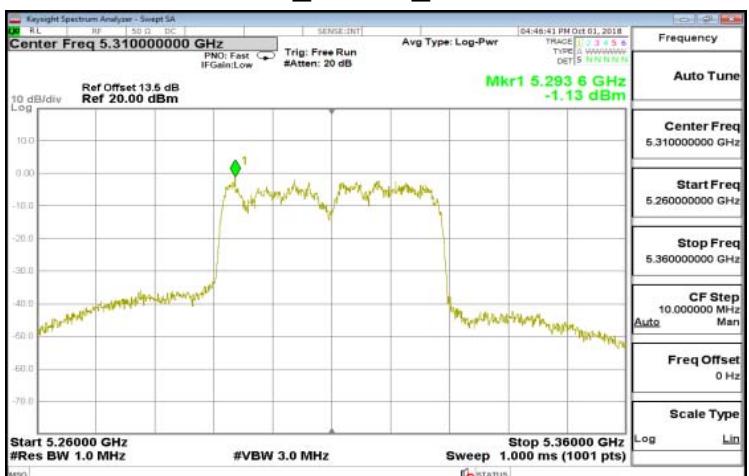
802.11n\_40MHz\_5270MHz



802.11n\_40MHz\_5190MHz



802.11n\_40MHz\_5310MHz



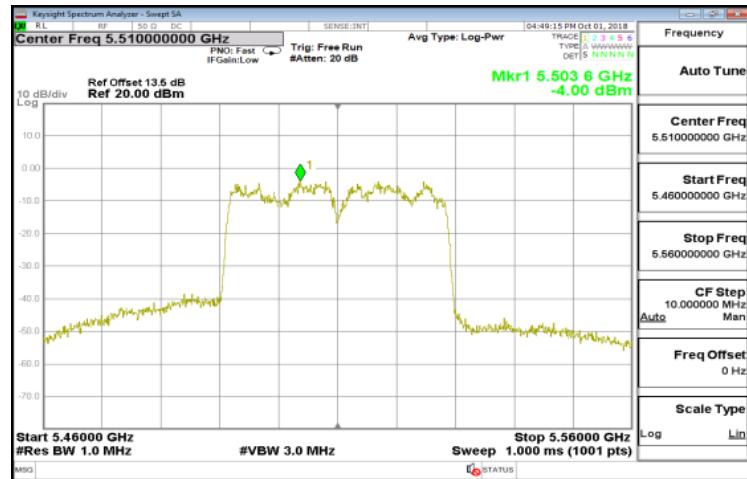
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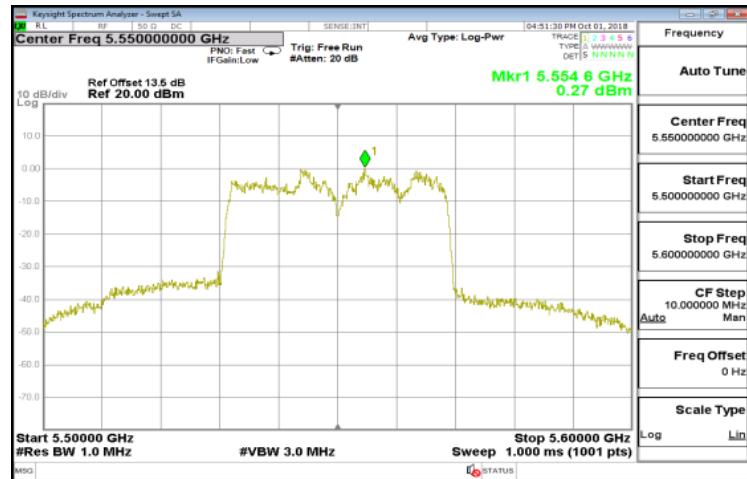
802.11n\_40MHz\_5510MHz



802.11n\_40MHz\_5710MHz



802.11n\_40MHz\_5550MHz



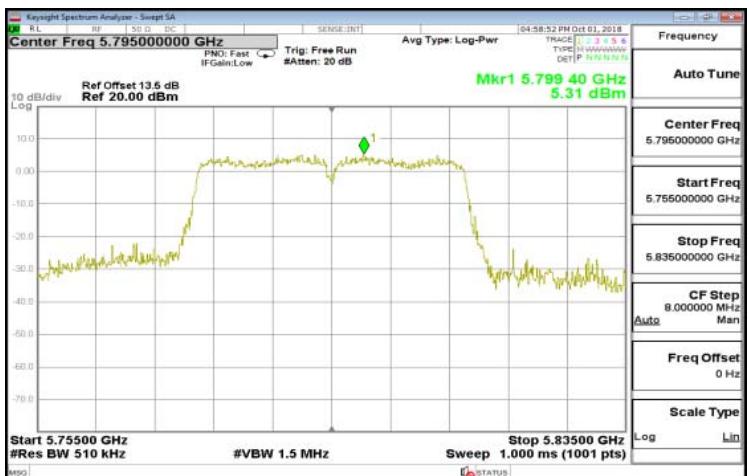
802.11n\_40MHz\_5755MHz



802.11n\_40MHz\_5670MHz



802.11n\_40MHz\_5795MHz



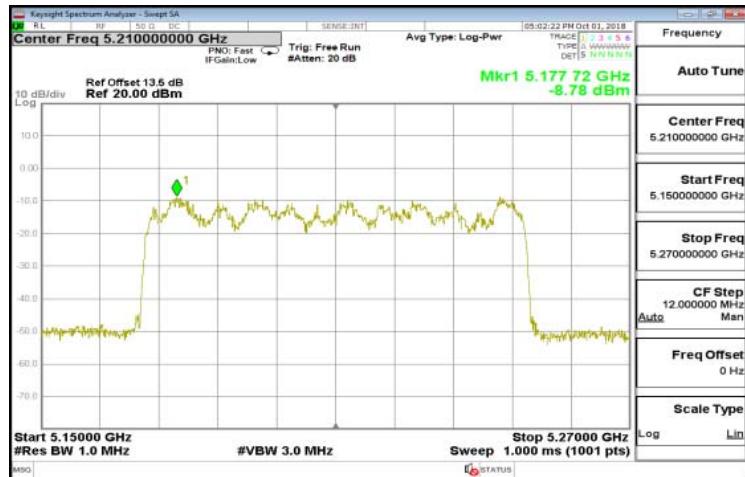
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### 802.11ac\_80MHz\_5210MHz



### 802.11ac\_80MHz\_5610MHz



### 802.11ac\_80MHz\_5290MHz



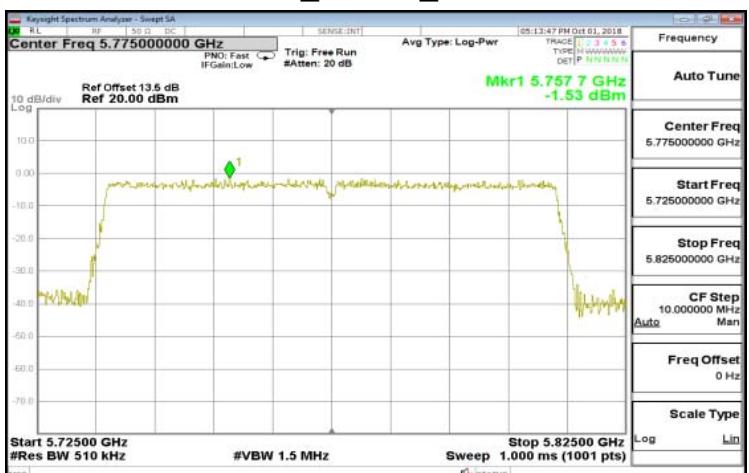
### 802.11ac\_80MHz\_5690MHz



### 802.11ac\_80MHz\_5530MHz



### 802.11ac\_80MHz\_5775MHz



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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 (dB $\mu$ V/m)	AV 54 (dB $\mu$ V/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1) RSS-247 6.2.1.2	PK: -27 (dBm/MHz)	PK: 68.3 (dB $\mu$ V/m)
15.407(b)(2) RSS-247 6.2.2.2		
15.407(b)(3) RSS-247 6.2.3.2		
15.407(b)(4)(i) RSS-247 6.2.4.2	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dB $\mu$ V/m) *1 PK:105.2 (dB $\mu$ V/m) *2 PK: 110.8(dB $\mu$ V/m) *3 PK:122.2 (dB $\mu$ V/m) *4

\*1 beyond 75 MHz or more above of the bandedge.

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

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

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

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

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

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

**Note:**

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

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## 11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Bi-log Antenna	SCHWAZBECK	VULB9168	378	2017/12/29	2018/12/28
Horn Antenna	Schwarzbeck	BBHA9120D	1441	2018/08/16	2019/08/15
Horn Antenna	Schwarzbeck	BBHA9170	184	2017/12/12	2018/12/11
Loop Antenna	ETS.LINDGREN	6502	148045	2018/09/25	2019/09/24
3m Site NSA	SGS	966 chamber	N/A	2018/01/02	2019/01/01
Spectrum Analyzer	Agilent	E4446A	MY51100003	2018/05/15	2019/05/14
EMI Test Receiver	R&S	ESCI7	100335	2018/02/02	2019/02/01
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27
Pre-Amplifier	HP	8449B	3008A00578	2018/01/02	2019/01/01
Pre-Amplifier	HP	8447D	2944A07676	2018/01/02	2019/01/01
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2017/10/27	2018/10/26
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	2018/01/02	2019/01/01
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	2018/01/02	2019/01/01
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	2018/01/02	2019/01/01
Low Loss Cable	Huber Suhner	966_RX	9	2018/01/02	2019/01/01
Notebook	Lenovo	T440P	P0000564	N/A	N/A

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## For Spot Check Data

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/10/2019	01/09/2020
Horn Antenna	Schwarzbeck	BBHA9170	07/02/1900	12/27/2018	12/26/2019
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/24/2018	12/23/2019
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
EMI Test Receiver	R&S	ESCI 3	100335	02/12/2019	02/11/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2019	01/01/2020
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2019	01/01/2020
Pre-Amplifier	HP	8447D	2944A09469	01/02/2019	01/01/2020
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	01/02/2019	01/01/2020
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	01/02/2019	01/01/2020
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	01/02/2019	01/01/2020
High Pass Filter	WI	WHKX7.0/18G-8SS	45	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2019	01/01/2020
Software	e3 V6.11-20180413				

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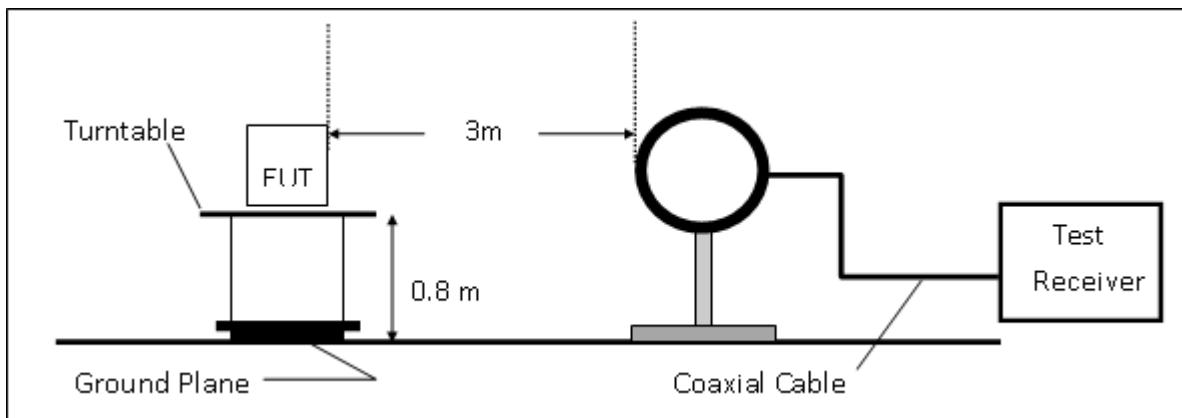
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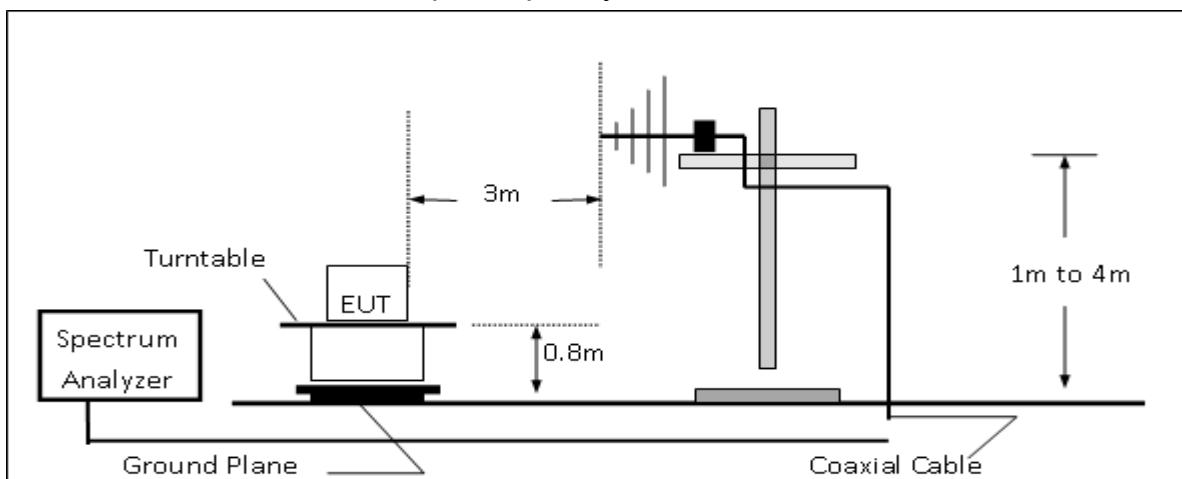
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### 11.3 Test SET-UP

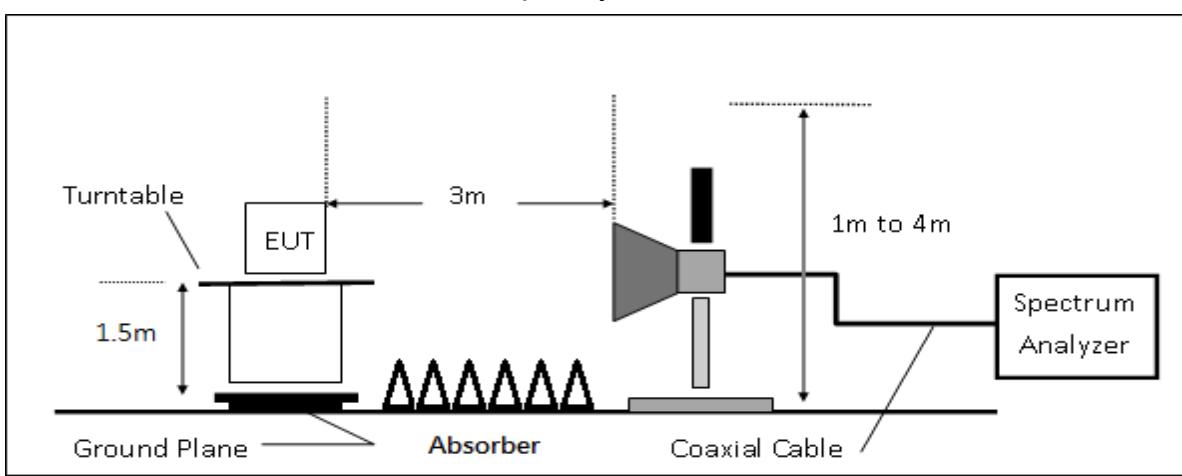
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



#### (B) Radiated Emission Test Set-UP, Frequency from 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  $\geq$  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:

$$\text{FS} = \text{RA} + \text{AF} - \text{AG}$$

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

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

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

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## 11.6 Test Results of Radiated Spurious Emissions from 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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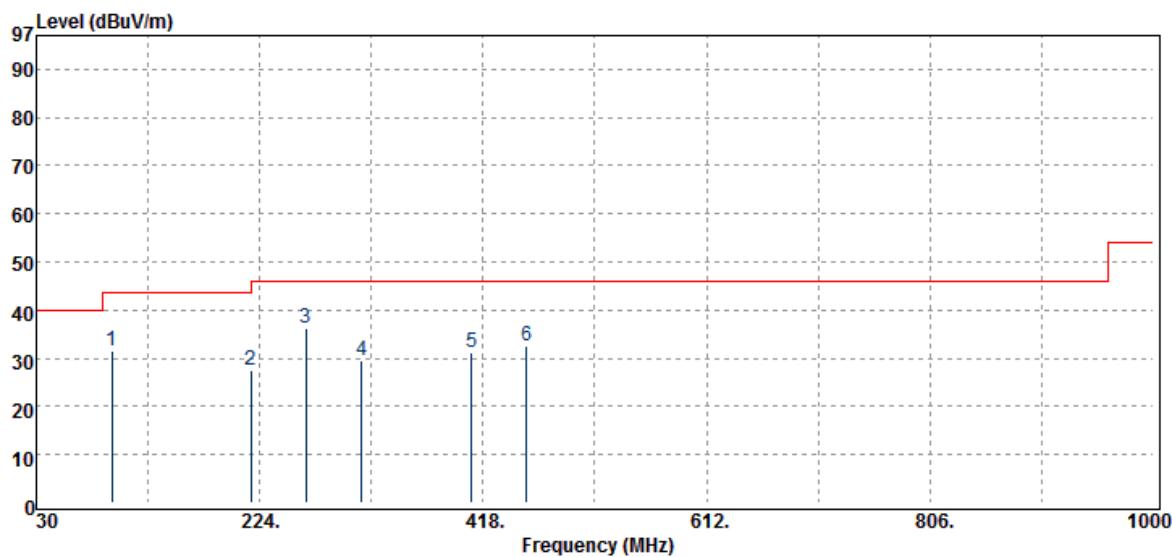
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**Radiated Spurious Emission Measurement Result****Below 1GHz Worst-Case Data:****MIMO****802.11a 5150~5250 MHz**

Operation Band	:802.11aB1	Test Date	:2018-10-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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
95.96	Peak	44.56	-12.91	31.65	43.50	-11.85
216.24	Peak	36.67	-9.14	27.53	46.00	-18.47
263.77	Peak	43.05	-6.88	36.17	46.00	-9.83
312.27	Peak	34.69	-5.24	29.45	46.00	-16.55
408.30	Peak	34.00	-2.95	31.05	46.00	-14.95
455.83	Peak	35.01	-2.34	32.67	46.00	-13.33

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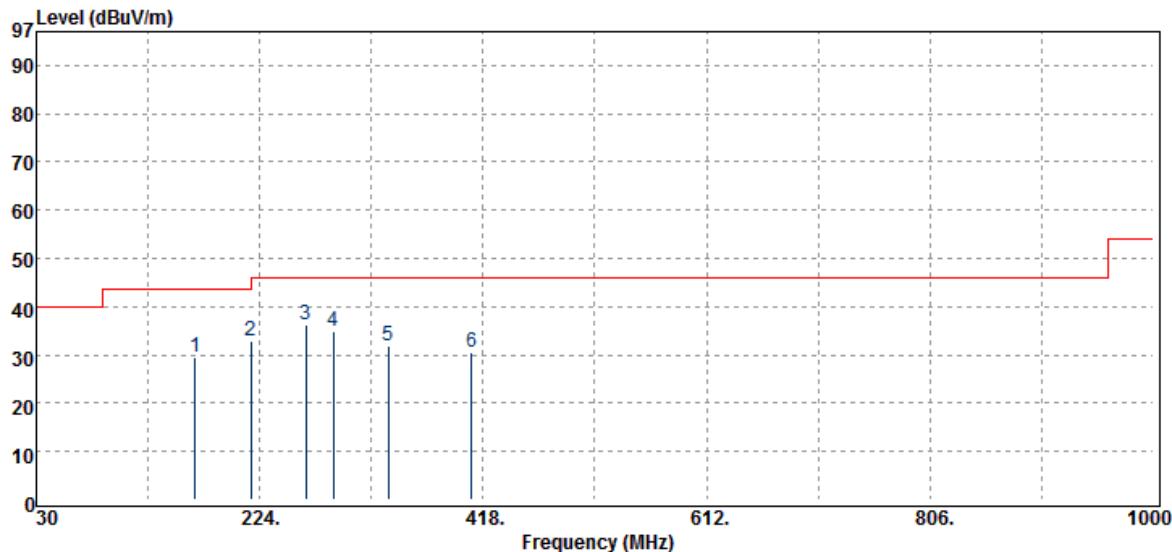
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Operation Band :802.11aB1  
 Fundamental Frequency :5220 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
167.74	Peak	36.99	-7.31	29.68	43.50	-13.82
216.24	Peak	42.19	-9.14	33.05	46.00	-12.95
263.77	Peak	43.29	-6.88	36.41	46.00	-9.59
288.02	Peak	40.66	-5.89	34.77	46.00	-11.23
335.55	Peak	36.89	-4.89	32.00	46.00	-14.00
408.30	Peak	33.39	-2.95	30.44	46.00	-15.56

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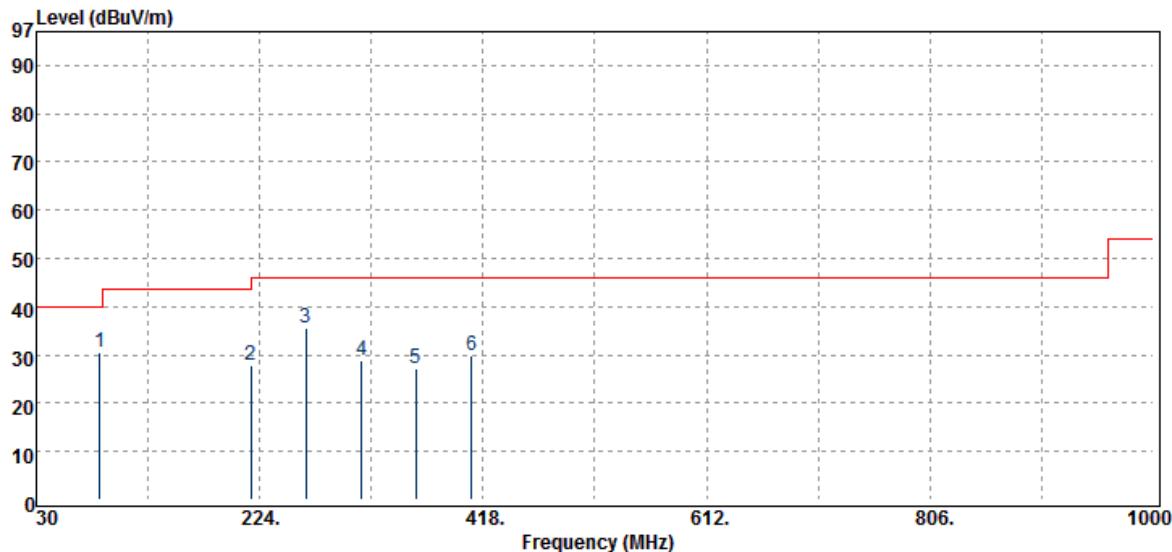
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**802.11a 5250~5350 MHz**

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
85.29	Peak	43.29	-12.91	30.38	40.00	-9.62
216.24	Peak	36.97	-9.14	27.83	46.00	-18.17
263.77	Peak	42.49	-6.88	35.61	46.00	-10.39
312.27	Peak	33.99	-5.24	28.75	46.00	-17.25
359.80	Peak	31.52	-4.26	27.26	46.00	-18.74
408.30	Peak	32.70	-2.95	29.75	46.00	-16.25

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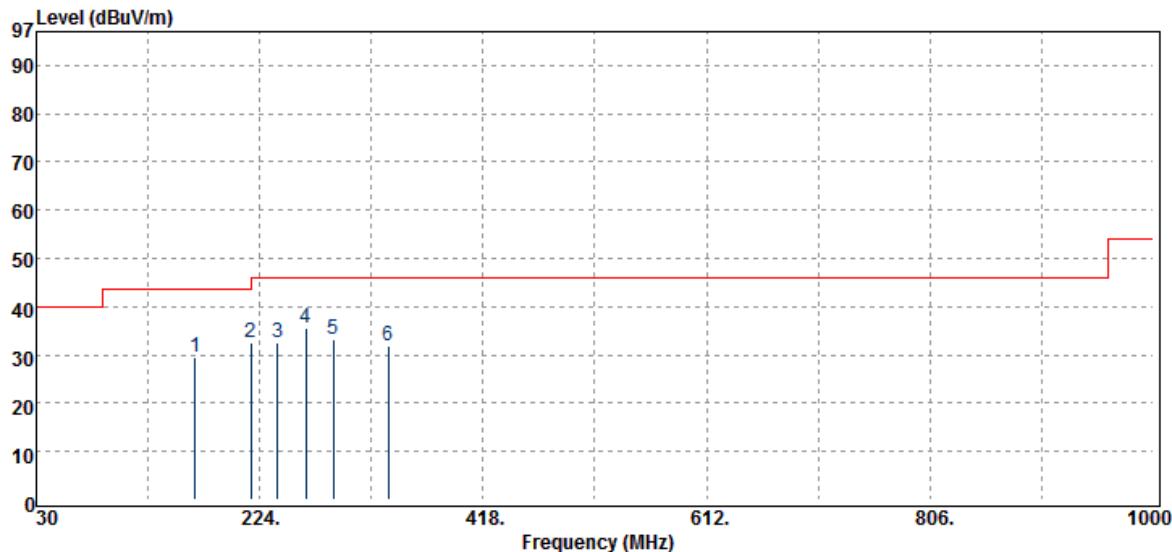
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Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
167.74	Peak	36.97	-7.31	29.66	43.50	-13.84
216.24	Peak	41.77	-9.14	32.63	46.00	-13.37
239.52	Peak	40.52	-7.83	32.69	46.00	-13.31
263.77	Peak	42.49	-6.88	35.61	46.00	-10.39
288.02	Peak	39.04	-5.89	33.15	46.00	-12.85
335.55	Peak	36.83	-4.89	31.94	46.00	-14.06

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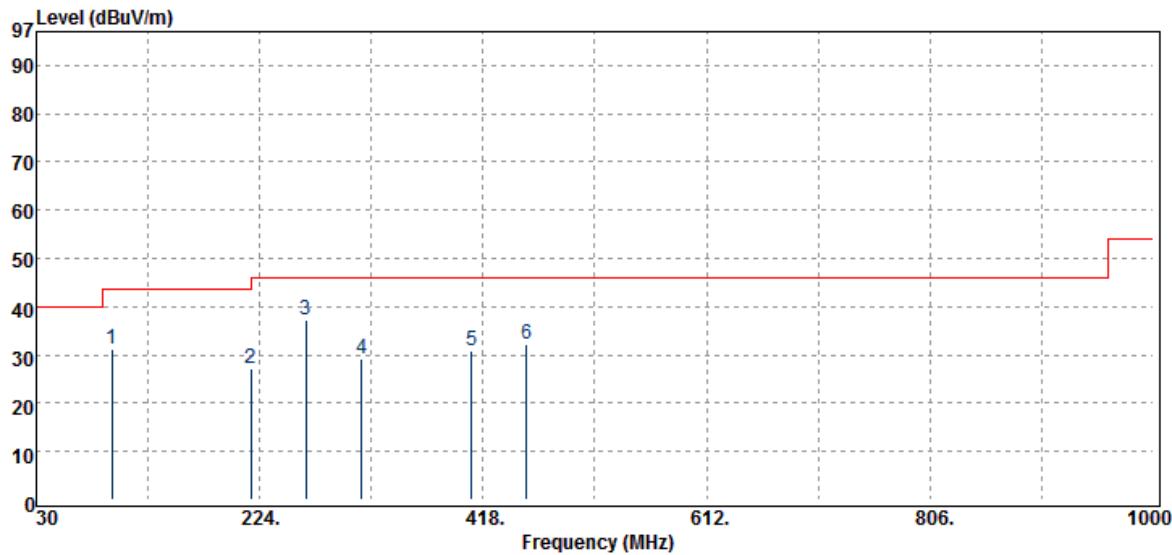
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**802.11a, 5470~5725 MHz**

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
95.96	Peak	43.98	-12.91	31.07	43.50	-12.43
216.24	Peak	36.23	-9.14	27.09	46.00	-18.91
263.77	Peak	44.23	-6.88	37.35	46.00	-8.65
312.27	Peak	34.60	-5.24	29.36	46.00	-16.64
408.30	Peak	33.95	-2.95	31.00	46.00	-15.00
455.83	Peak	34.53	-2.34	32.19	46.00	-13.81

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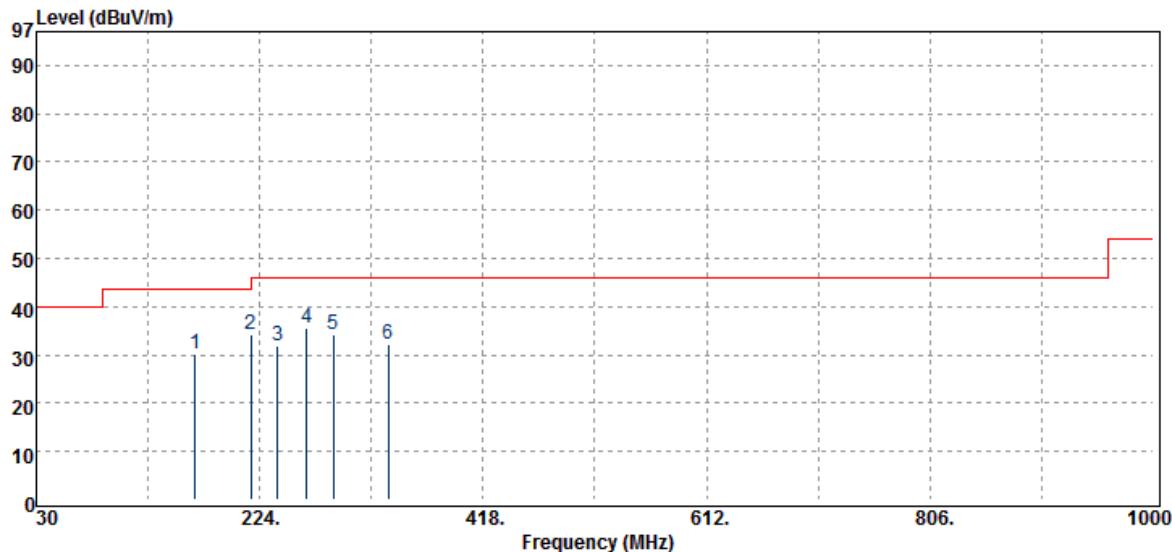
f (886-2) 2298-0488

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
167.74	Peak	37.52	-7.31	30.21	43.50	-13.29
216.24	Peak	43.38	-9.14	34.24	46.00	-11.76
239.52	Peak	39.81	-7.83	31.98	46.00	-14.02
264.74	Peak	42.39	-6.83	35.56	46.00	-10.44
288.02	Peak	40.04	-5.89	34.15	46.00	-11.85
335.55	Peak	37.07	-4.89	32.18	46.00	-13.82

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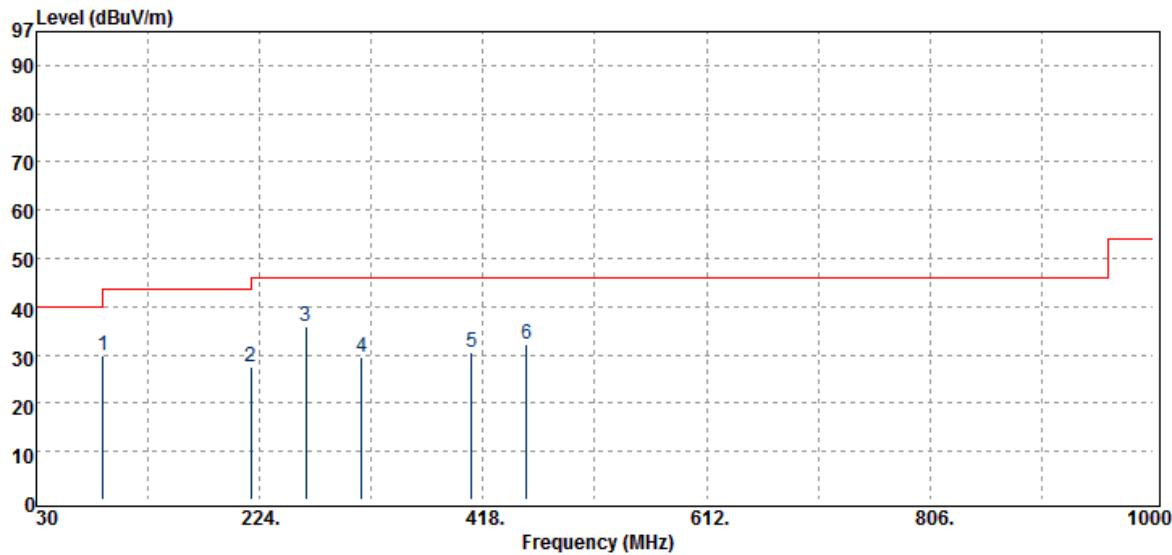
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## 802.11a, 5725~5850 MHz

Operation Band :802.11aB4  
Fundamental Frequency :5785 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
88.20	Peak	43.43	-13.39	30.04	43.50	-13.46
216.24	Peak	36.63	-9.14	27.49	46.00	-18.51
263.77	Peak	42.67	-6.88	35.79	46.00	-10.21
312.27	Peak	34.87	-5.24	29.63	46.00	-16.37
408.30	Peak	33.42	-2.95	30.47	46.00	-15.53
455.83	Peak	34.49	-2.34	32.15	46.00	-13.85

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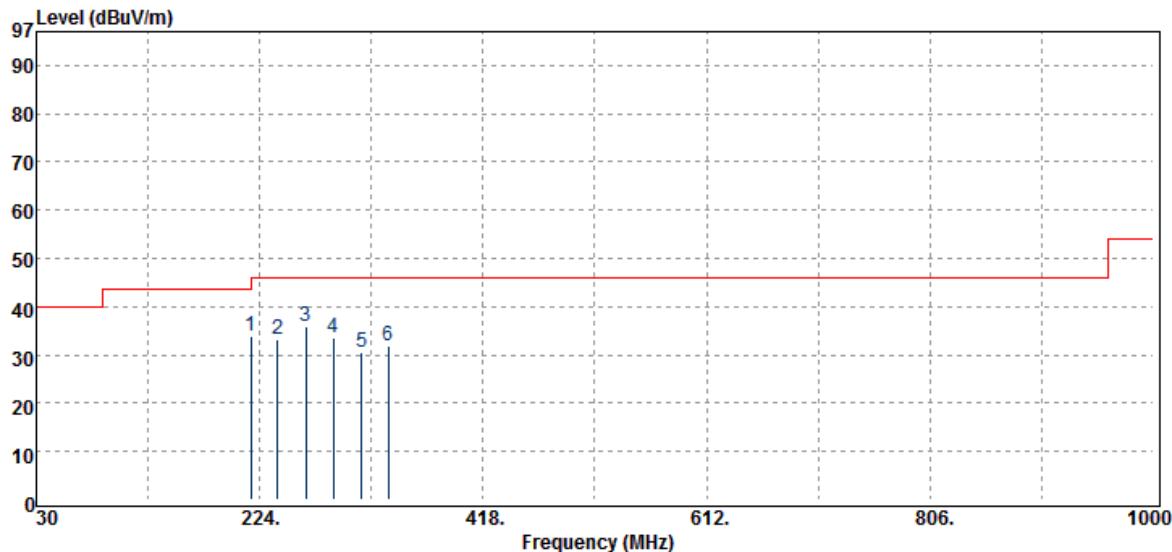
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Operation Band :802.11aB4  
 Fundamental Frequency :5785 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
216.24	Peak	42.97	-9.14	33.83	46.00	-12.17
239.52	Peak	41.02	-7.83	33.19	46.00	-12.81
263.77	Peak	42.75	-6.88	35.87	46.00	-10.13
288.02	Peak	39.58	-5.89	33.69	46.00	-12.31
312.27	Peak	35.62	-5.24	30.38	46.00	-15.62
335.55	Peak	36.80	-4.89	31.91	46.00	-14.09

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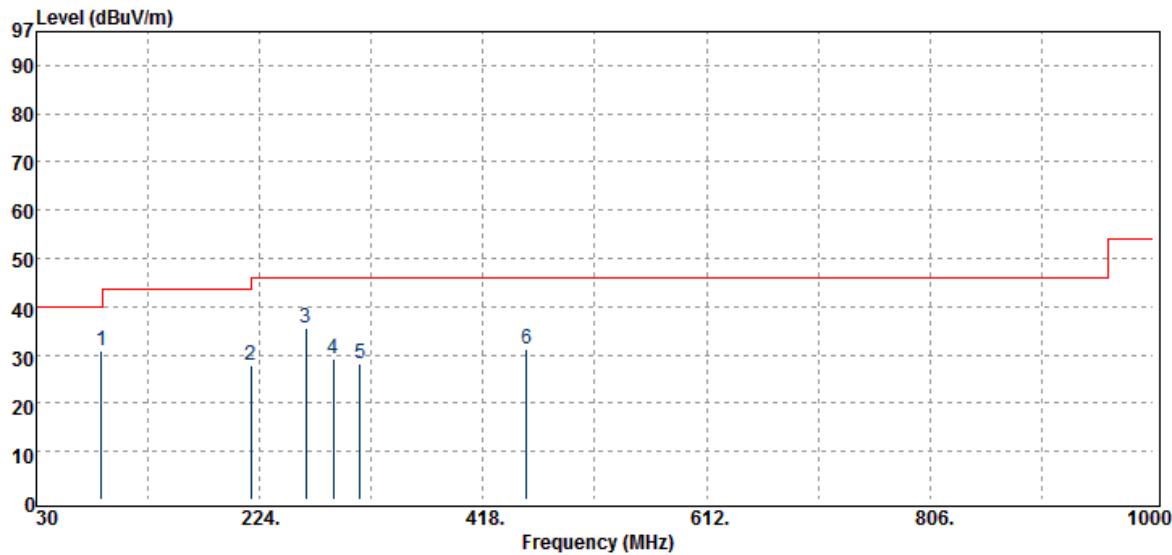
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**802.11ac VHT80, 5150~5250 MHz**

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
86.26	Peak	43.93	-13.06	30.87	40.00	-9.13
216.24	Peak	37.10	-9.14	27.96	46.00	-18.04
263.77	Peak	42.57	-6.88	35.69	46.00	-10.31
288.02	Peak	35.21	-5.89	29.32	46.00	-16.68
311.30	Peak	33.43	-5.25	28.18	46.00	-17.82
455.83	Peak	33.64	-2.34	31.30	46.00	-14.70

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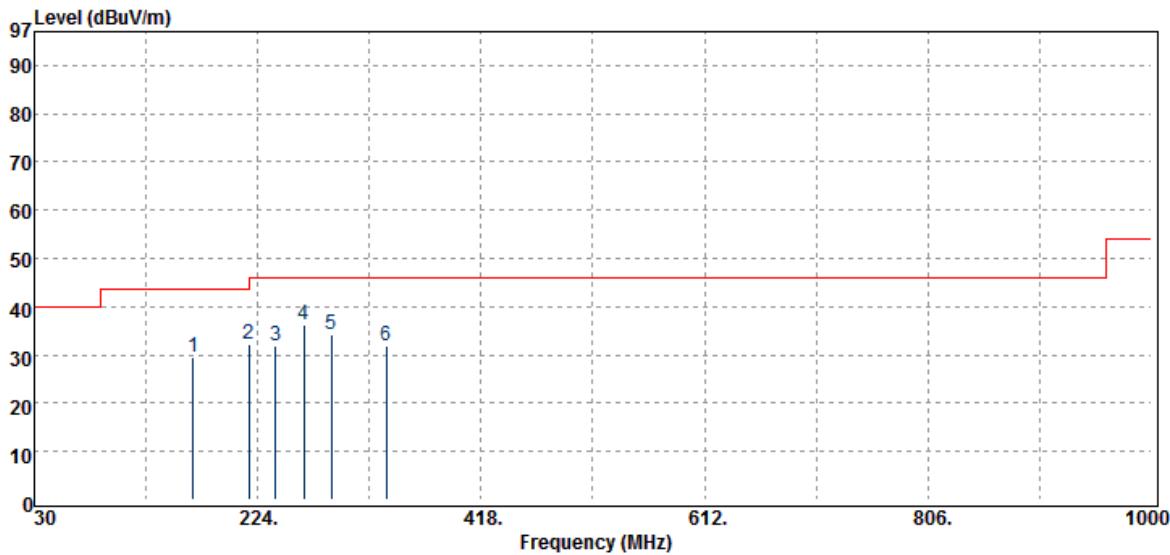
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Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
167.74	Peak	37.01	-7.31	29.70	43.50	-13.80
216.24	Peak	41.51	-9.14	32.37	46.00	-13.63
239.52	Peak	39.83	-7.83	32.00	46.00	-14.00
263.77	Peak	43.15	-6.88	36.27	46.00	-9.73
288.02	Peak	40.19	-5.89	34.30	46.00	-11.70
335.55	Peak	36.84	-4.89	31.95	46.00	-14.05

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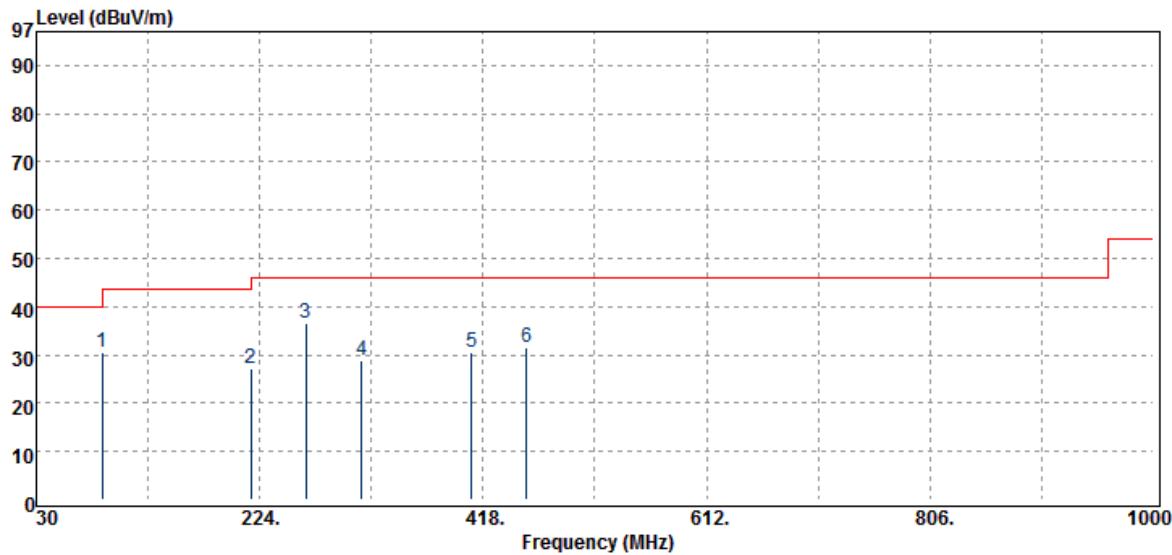
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**802.11ac VHT80, 5250~5350 MHz**

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
87.23	Peak	43.70	-13.23	30.47	40.00	-9.53
216.24	Peak	36.23	-9.14	27.09	46.00	-18.91
263.77	Peak	43.54	-6.88	36.66	46.00	-9.34
312.27	Peak	34.07	-5.24	28.83	46.00	-17.17
408.30	Peak	33.39	-2.95	30.44	46.00	-15.56
455.83	Peak	33.92	-2.34	31.58	46.00	-14.42

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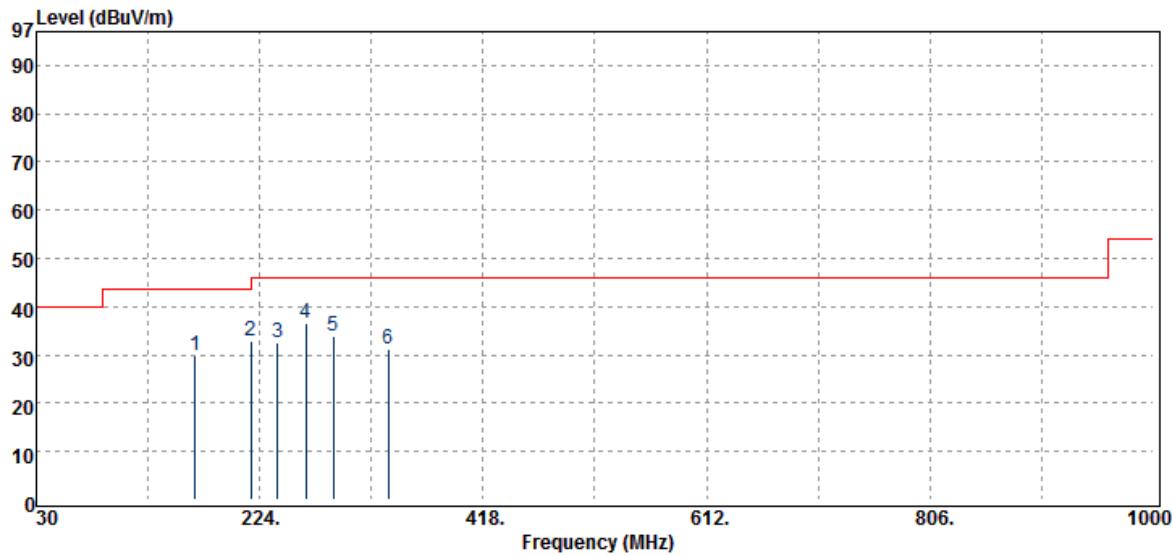
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Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
167.74	Peak	37.34	-7.31	30.03	43.50	-13.47
216.24	Peak	41.94	-9.14	32.80	46.00	-13.20
239.52	Peak	40.37	-7.83	32.54	46.00	-13.46
263.77	Peak	43.40	-6.88	36.52	46.00	-9.48
288.02	Peak	39.89	-5.89	34.00	46.00	-12.00
335.55	Peak	36.00	-4.89	31.11	46.00	-14.89

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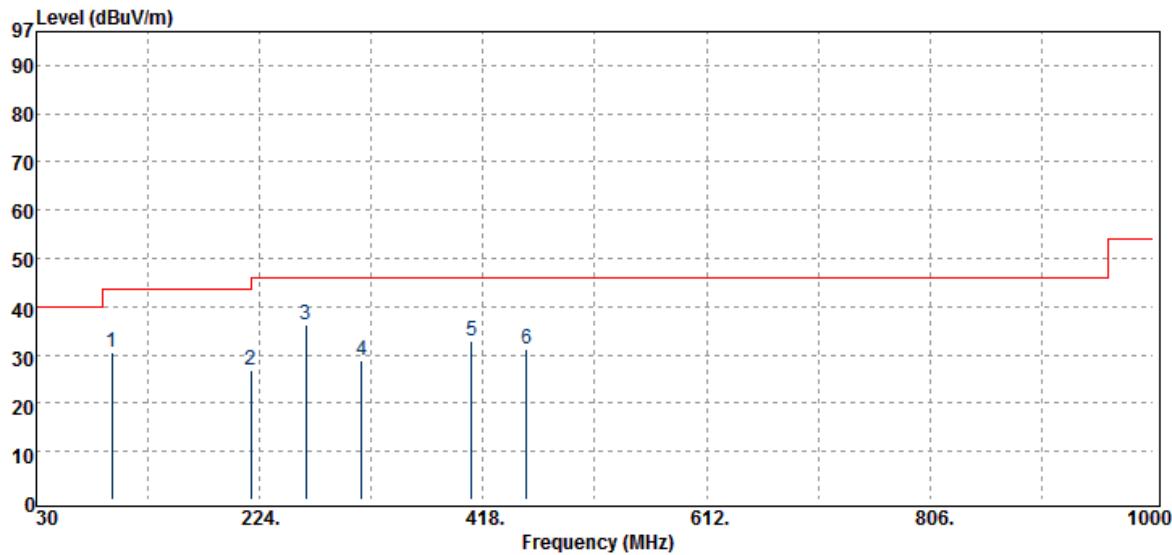
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**802.11ac VHT80, 5470~5725 MHz**

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
95.96	Peak	43.53	-12.91	30.62	43.50	-12.88
216.24	Peak	35.98	-9.14	26.84	46.00	-19.16
263.77	Peak	43.06	-6.88	36.18	46.00	-9.82
312.27	Peak	34.16	-5.24	28.92	46.00	-17.08
408.30	Peak	35.68	-2.95	32.73	46.00	-13.27
455.83	Peak	33.48	-2.34	31.14	46.00	-14.86

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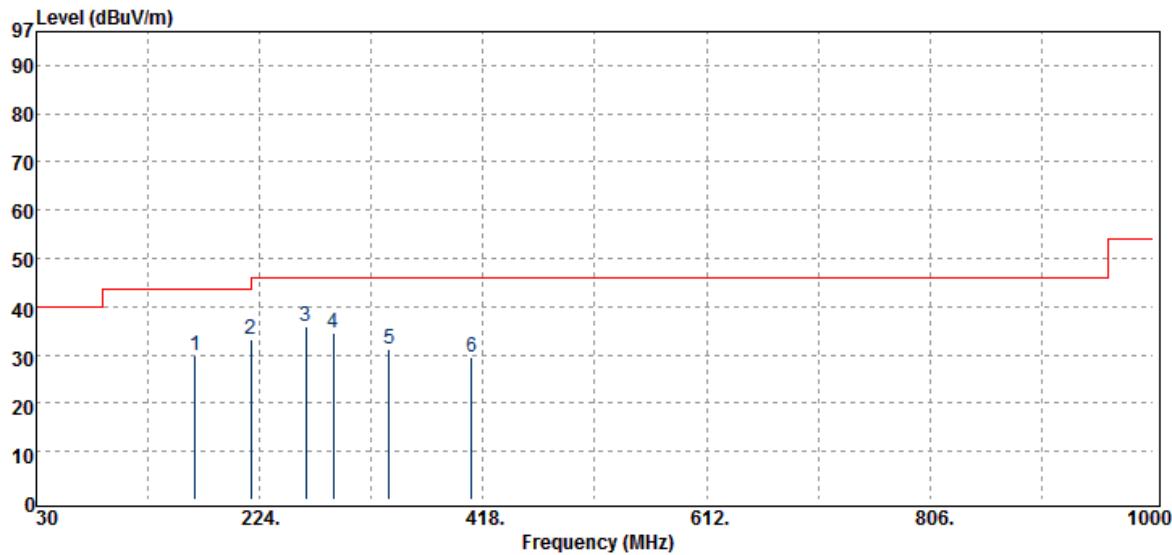
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
167.74	Peak	37.11	-7.31	29.80	43.50	-13.70
216.24	Peak	42.31	-9.14	33.17	46.00	-12.83
263.77	Peak	42.66	-6.88	35.78	46.00	-10.22
288.02	Peak	40.50	-5.89	34.61	46.00	-11.39
336.52	Peak	35.93	-4.87	31.06	46.00	-14.94
408.30	Peak	32.47	-2.95	29.52	46.00	-16.48

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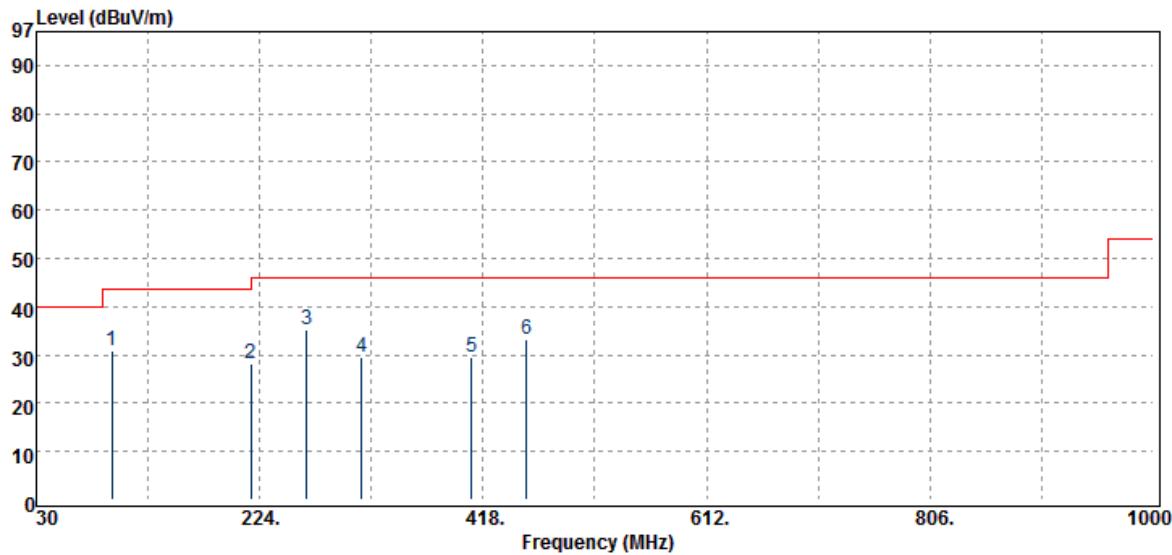
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**802.11ac VHT80, 5725~5850 MHz**

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

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
95.96	Peak	43.65	-12.91	30.74	43.50	-12.76
216.24	Peak	37.26	-9.14	28.12	46.00	-17.88
264.74	Peak	42.03	-6.83	35.20	46.00	-10.80
312.27	Peak	34.61	-5.24	29.37	46.00	-16.63
408.30	Peak	32.56	-2.95	29.61	46.00	-16.39
455.83	Peak	35.64	-2.34	33.30	46.00	-12.70

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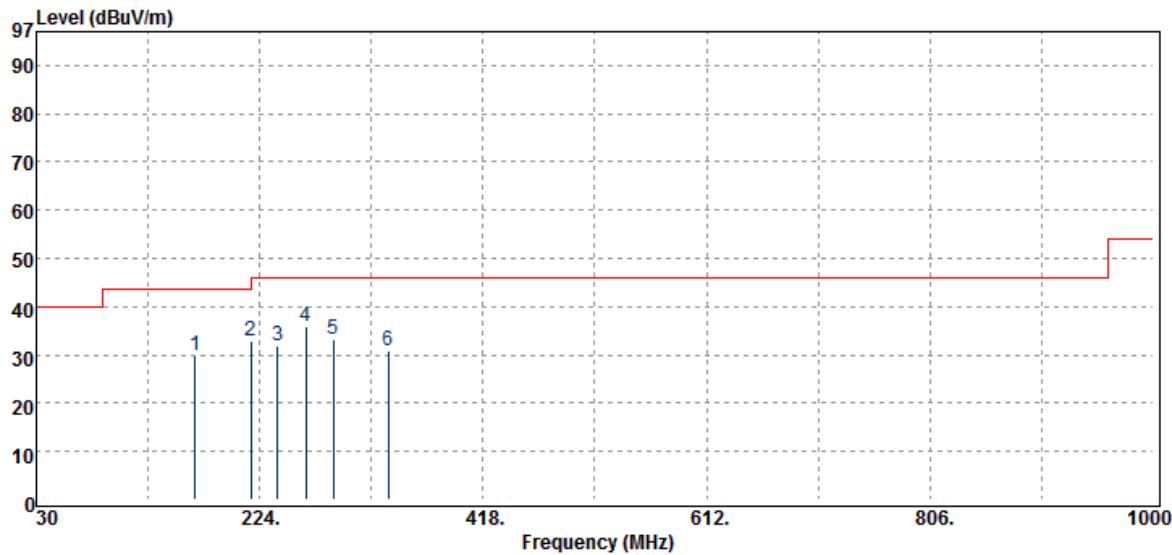
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Operation Band :802.11ac80B4  
 Fundamental Frequency :5775 MHz  
 Operation Mode :Tx CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
167.74	Peak	37.16	-7.31	29.85	43.50	-13.65
216.24	Peak	41.98	-9.14	32.84	46.00	-13.16
239.52	Peak	39.67	-7.83	31.84	46.00	-14.16
263.77	Peak	42.73	-6.88	35.85	46.00	-10.15
288.02	Peak	39.17	-5.89	33.28	46.00	-12.72
335.55	Peak	35.91	-4.89	31.02	46.00	-14.98

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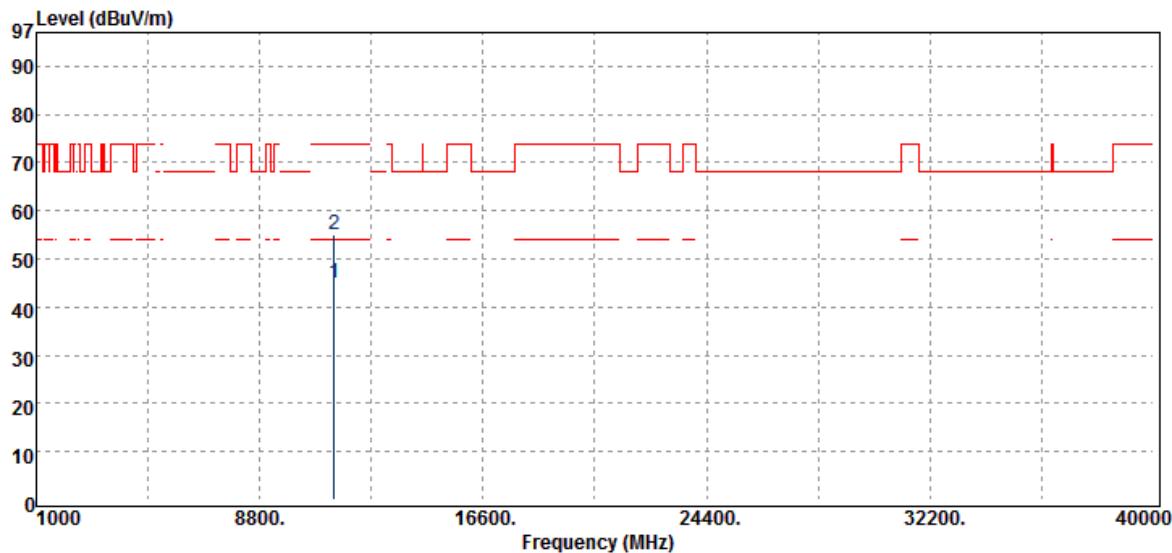
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**Above 1GHz Worst-Case Data:****SISO****Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz**

Operation Band	:802.11n20B3	Test Date	:2018-10-03
Fundamental Frequency	:5700 MHz	Temp./Hum.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
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	23.27	21.62	44.89	54.00	-9.11
11400.00	Peak	33.33	21.62	54.95	74.00	-19.05

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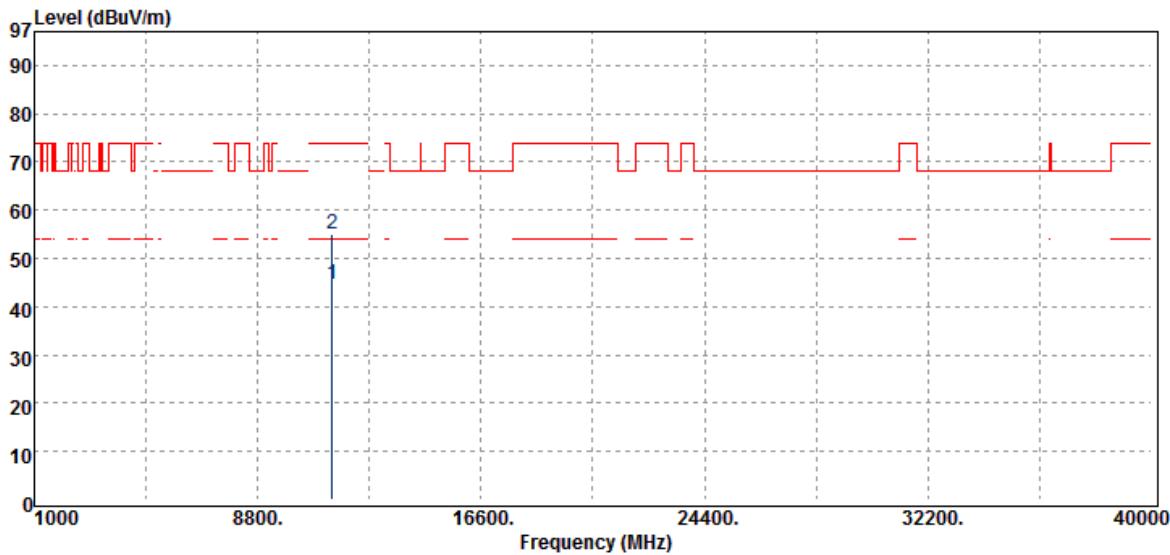
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Operation Band	:802.11n20B3	Test Date	:2018-10-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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
11400.00	Average	23.17	21.62	44.79	54.00	-9.21
11400.00	Peak	33.26	21.62	54.88	74.00	-19.12

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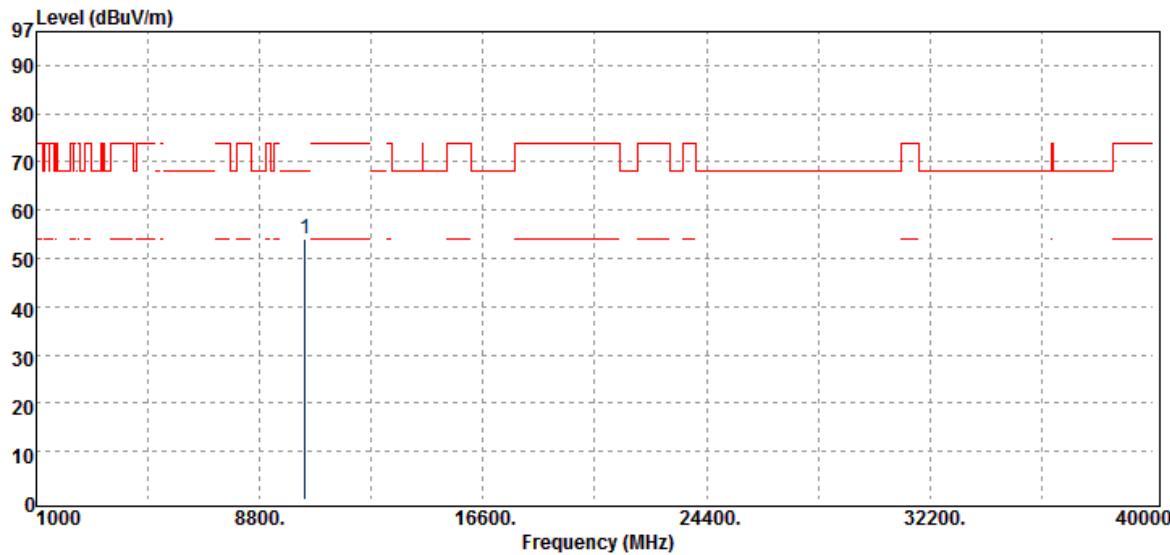
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz**

Operation Band	:802.11n40B1	Test Date	:2018-10-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	: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	34.26	19.78	54.04	68.20	-14.16

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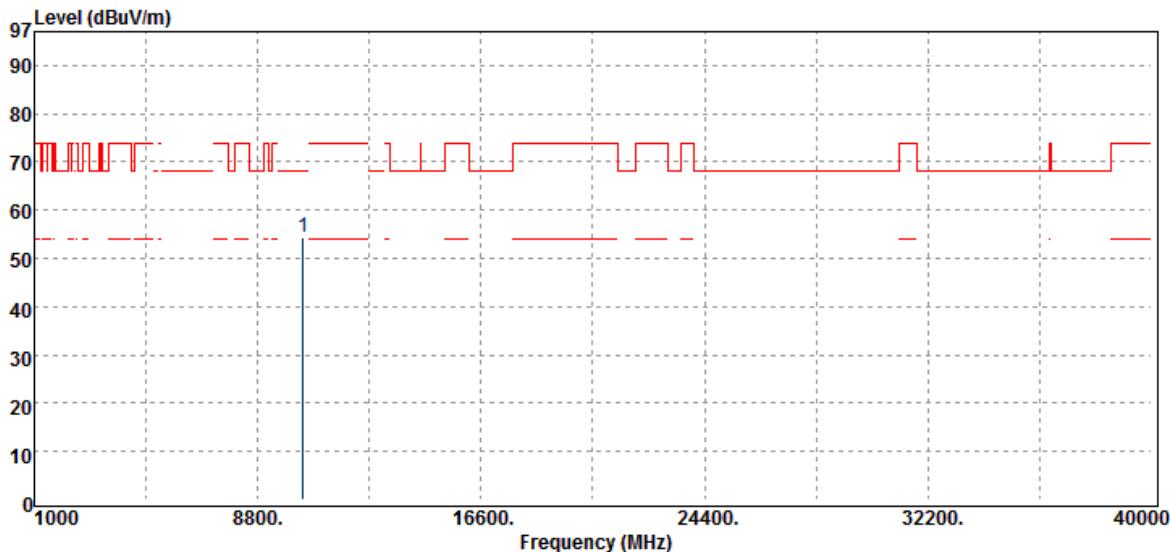
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Operation Band :802.11n40B1  
Fundamental Frequency :5190 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	34.46	19.78	54.24	68.20	-13.96

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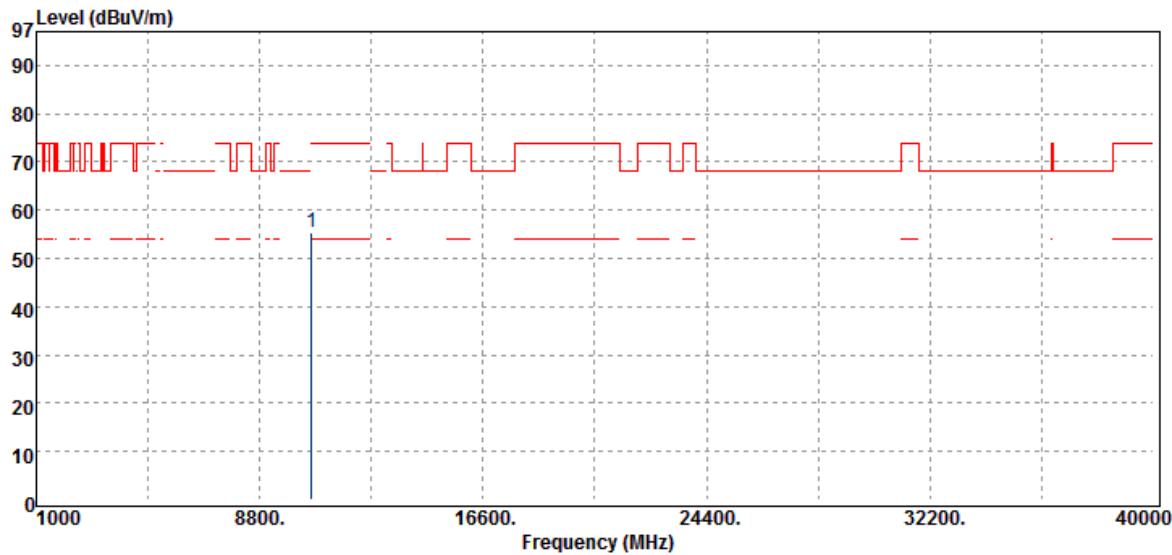
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**

Operation Band	:802.11n40B2	Test Date	:2018-10-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
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	Peak	34.90	20.41	55.31	74.00	-18.69

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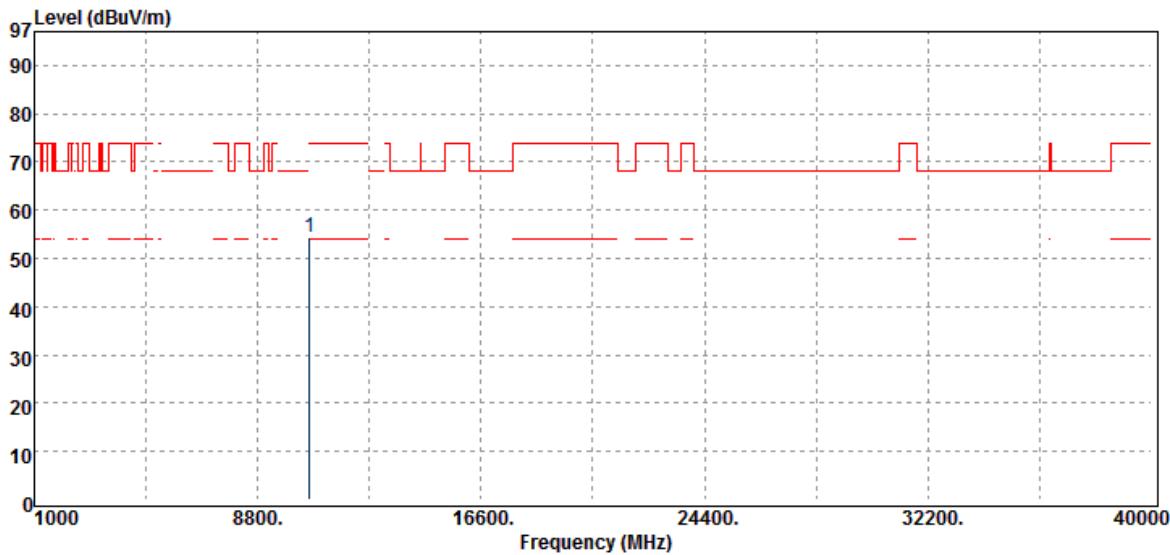
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Operation Band :802.11n40B2  
Fundamental Frequency :5310 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	Peak	33.91	20.41	54.32	74.00	-19.68

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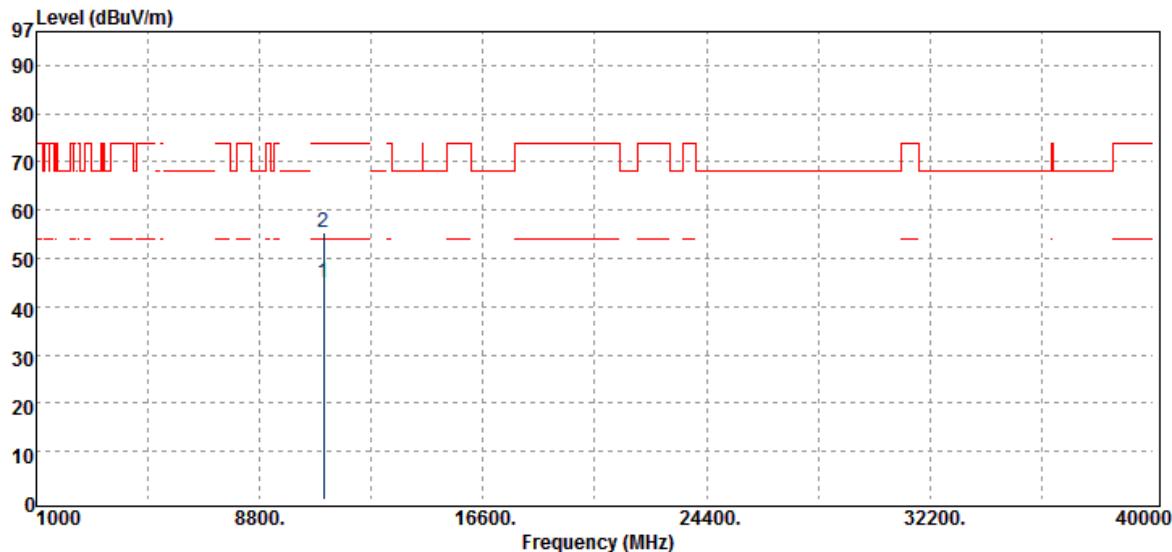
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz**

Operation Band	:802.11n40B3	Test Date	:2018-10-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	23.43	21.46	44.89	54.00	-9.11
11020.00	Peak	33.77	21.46	55.23	74.00	-18.77

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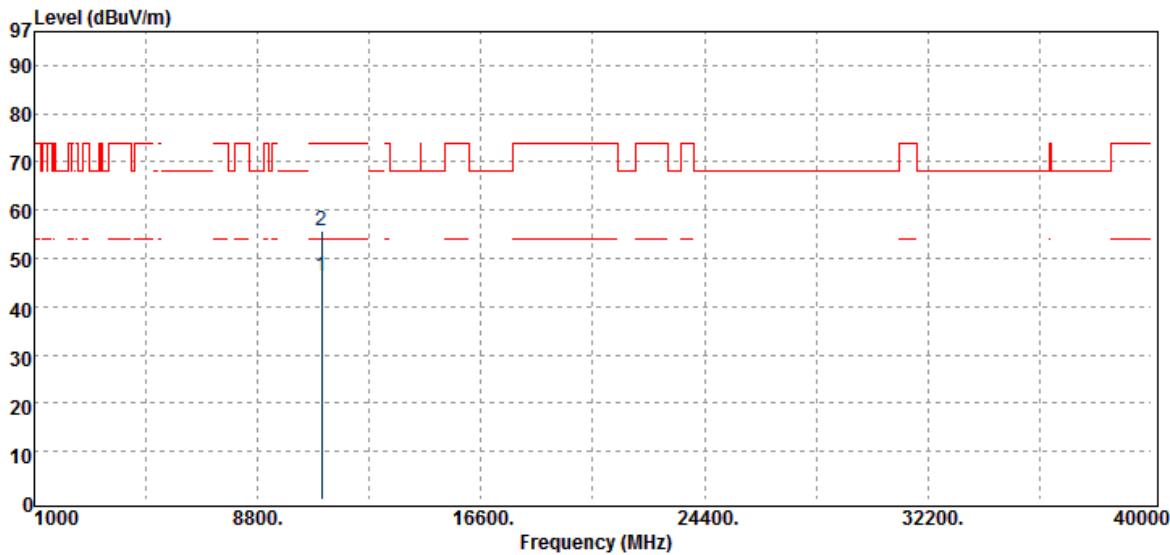
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Operation Band	:802.11n40B3	Test Date	:2018-10-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	24.97	21.46	46.43	54.00	-7.57
11020.00	Peak	34.16	21.46	55.62	74.00	-18.38

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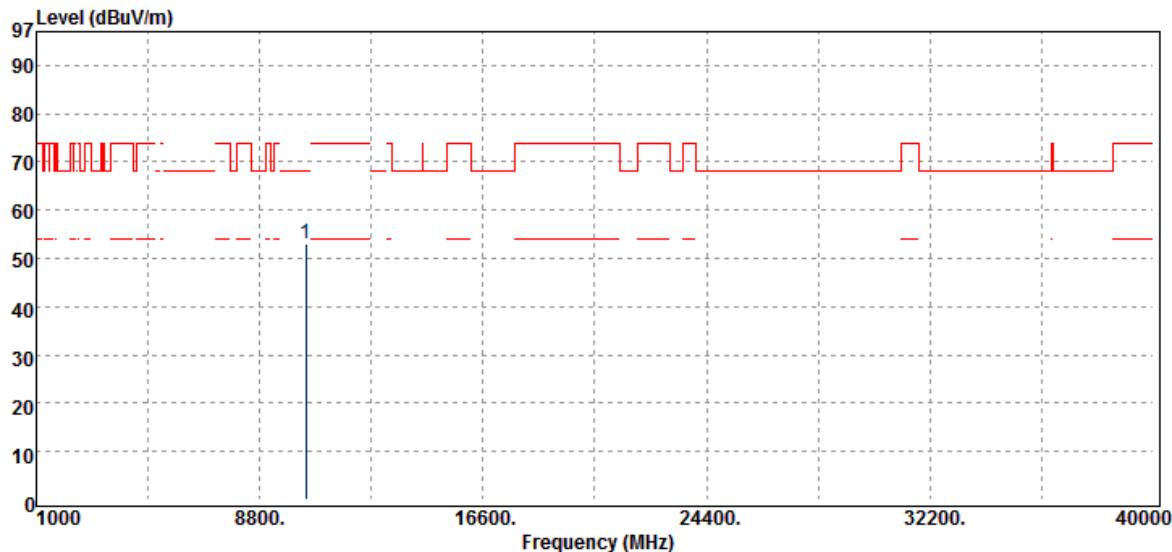
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz**

Operation Band	:802.11ac80B1	Test Date	:2018-10-03
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	33.02	19.99	53.01	68.20	-15.19

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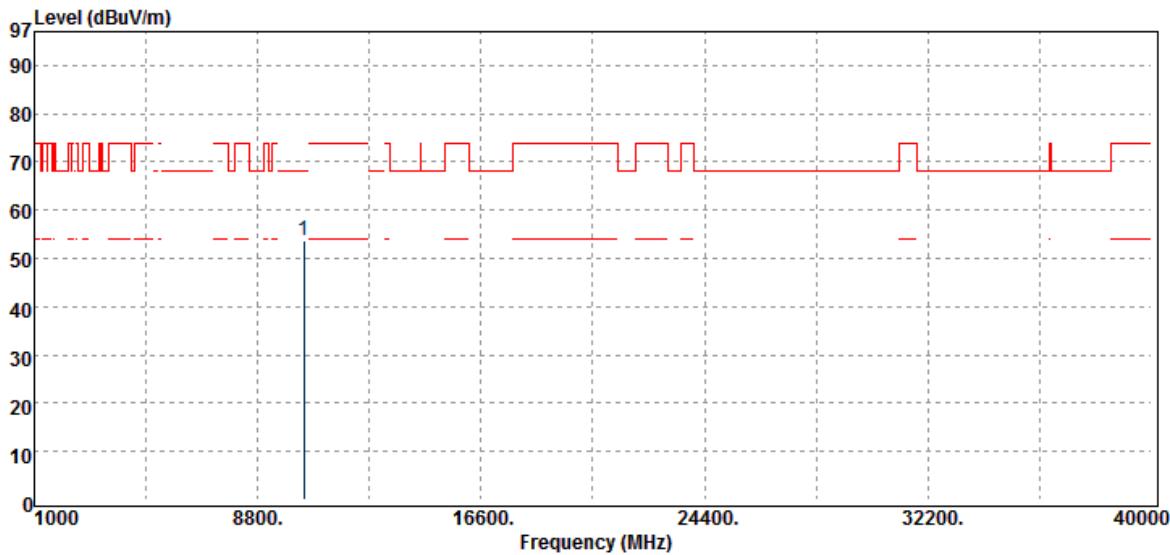
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Operation Band :802.11ac80B1  
Fundamental Frequency :5210 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	33.68	19.99	53.67	68.20	-14.53

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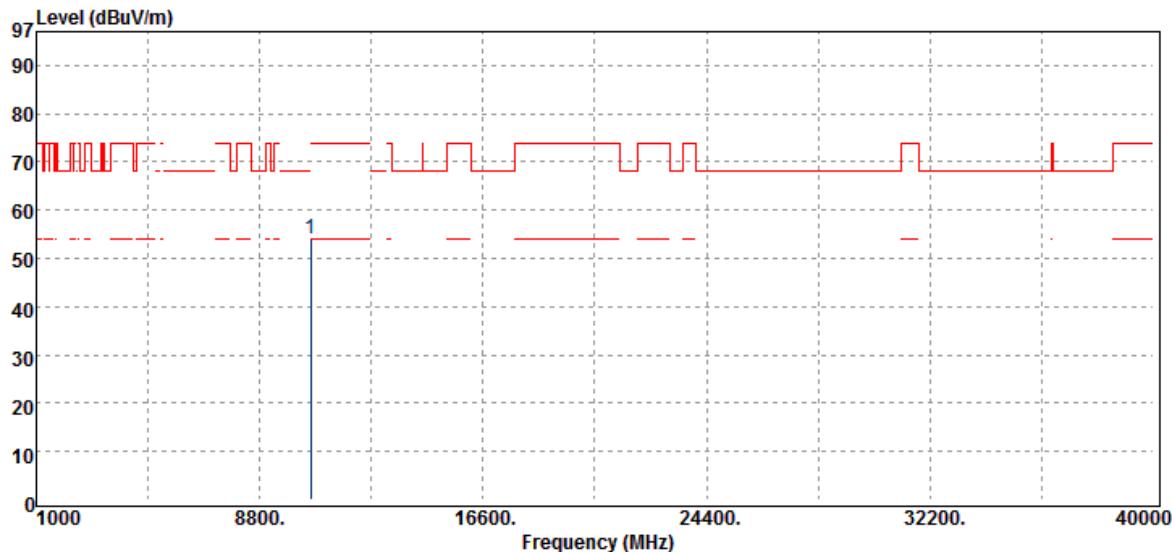
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz**

Operation Band	:802.11ac80B2	Test Date	:2018-10-03
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	33.95	20.23	54.18	68.20	-14.02

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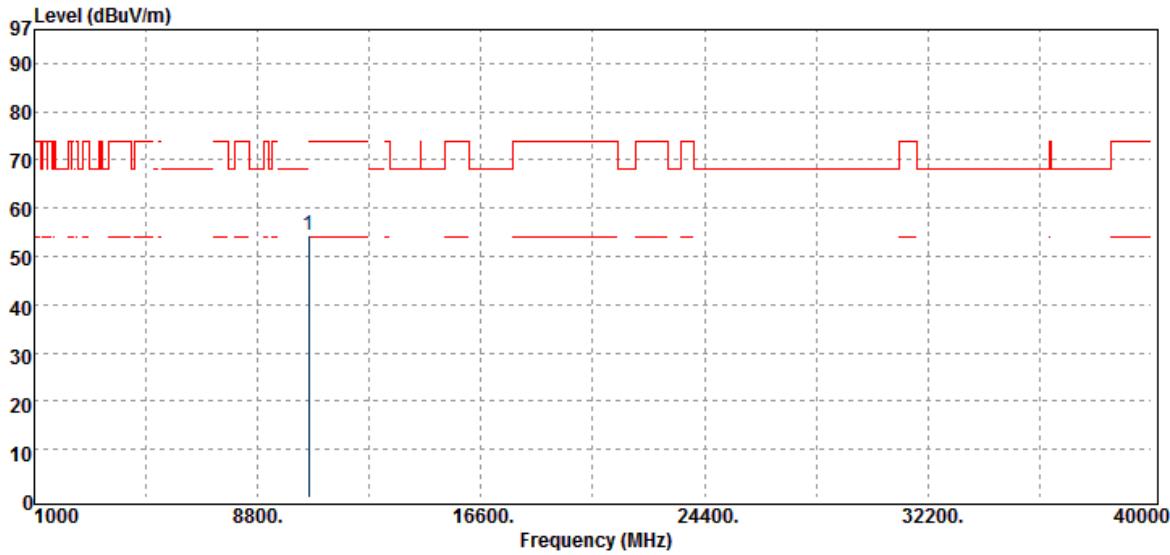
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Operation Band	:802.11ac80B2	Test Date	:2018-10-03
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	34.25	20.23	54.48	68.20	-13.72

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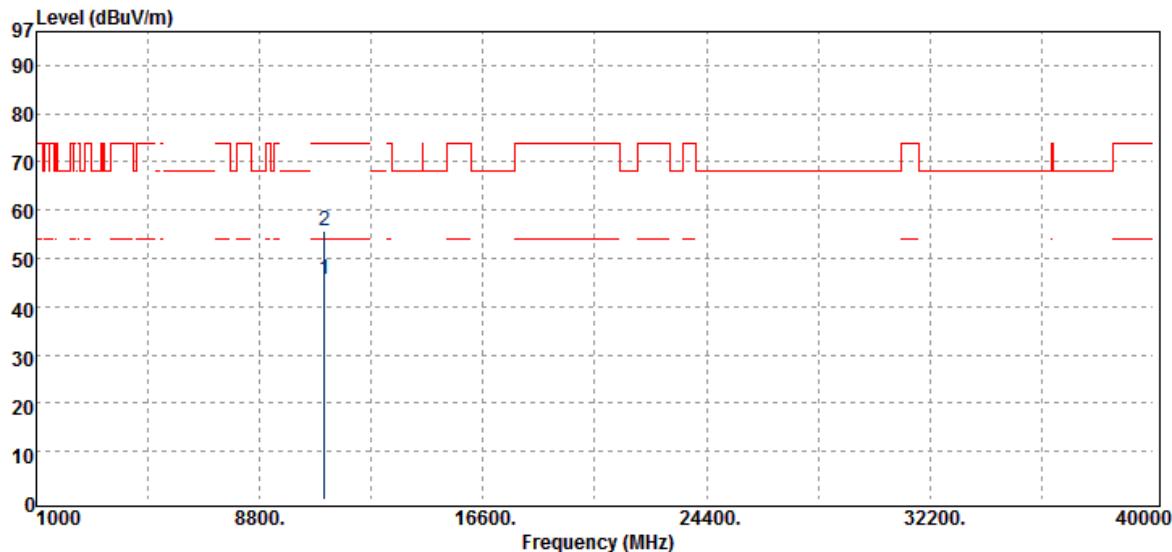
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz**

Operation Band	:802.11ac80B3	Test Date	:2018-10-03
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	24.07	21.53	45.60	54.00	-8.40
11060.00	Peak	34.33	21.53	55.86	74.00	-18.14

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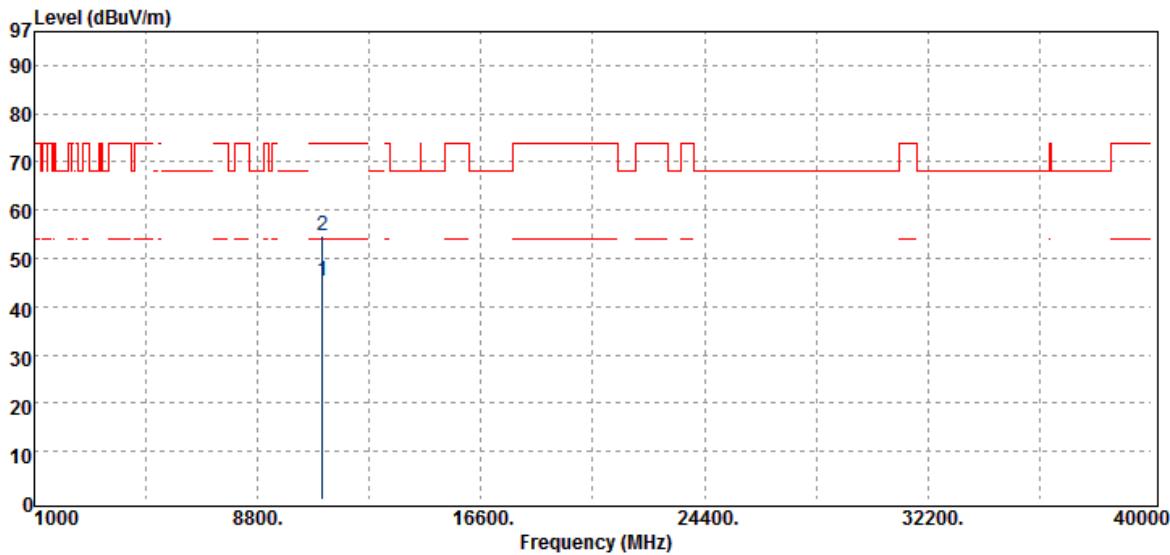
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Operation Band :802.11ac80B3  
Fundamental Frequency :5530 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	23.62	21.53	45.15	54.00	-8.85
11060.00	Peak	33.09	21.53	54.62	74.00	-19.38

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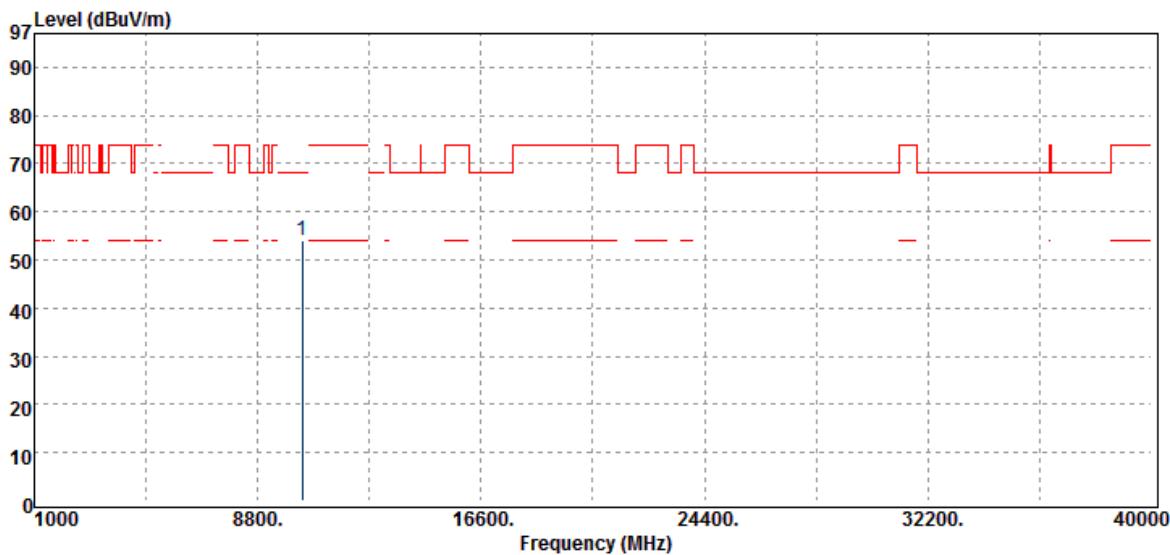
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**MIMO****Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz**

Operation Band	:802.11aB1	Test Date	:2018-10-02
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	34.32	19.71	54.03	68.20	-14.17

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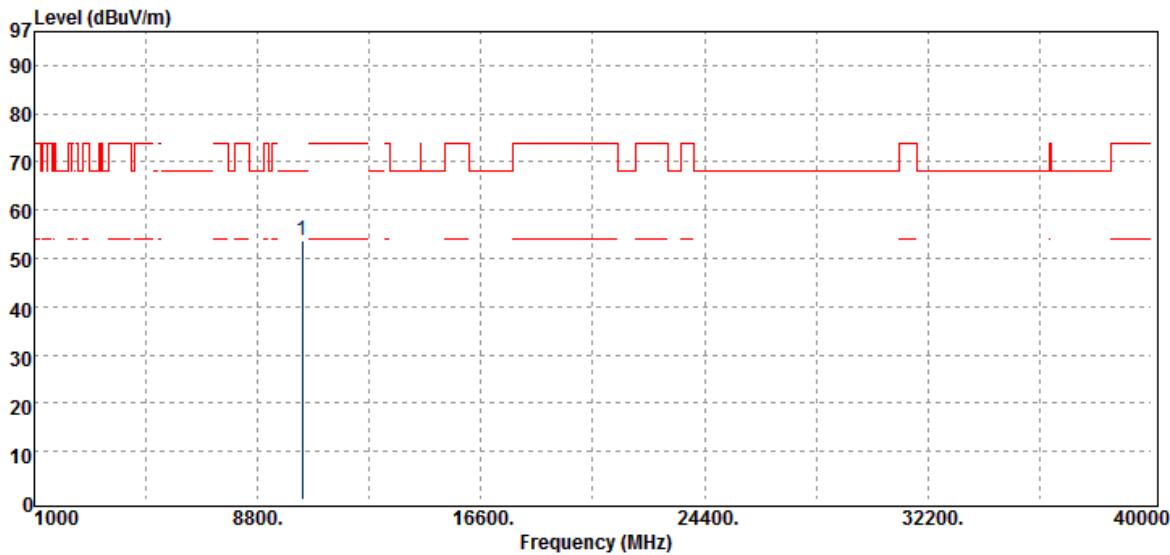
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Operation Band :802.11aB1  
Fundamental Frequency :5180 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	34.02	19.71	53.73	68.20	-14.47

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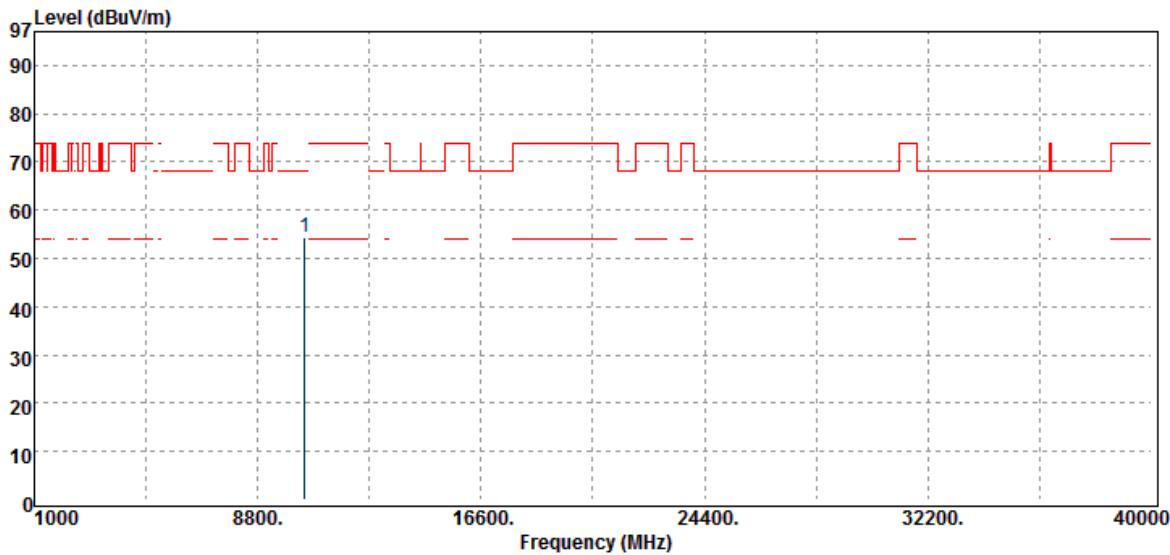
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Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	34.19	20.05	54.24	68.20	-13.96

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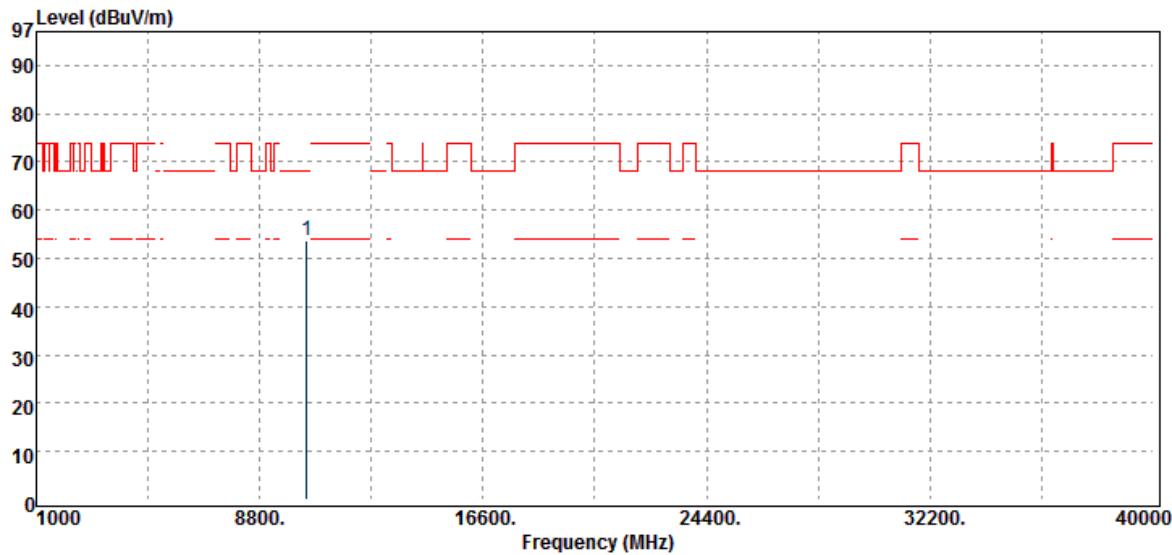
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Operation Band :802.11aB1  
Fundamental Frequency :5220 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	33.76	20.05	53.81	68.20	-14.39

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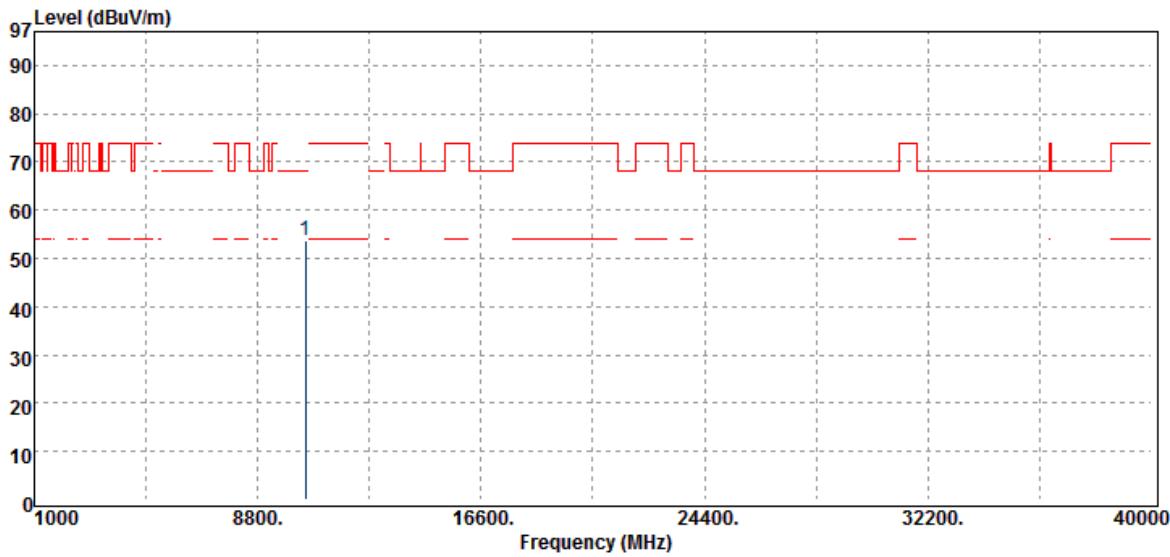
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Operation Band :802.11aB1  
Fundamental Frequency :5240 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	33.71	20.07	53.78	68.20	-14.42

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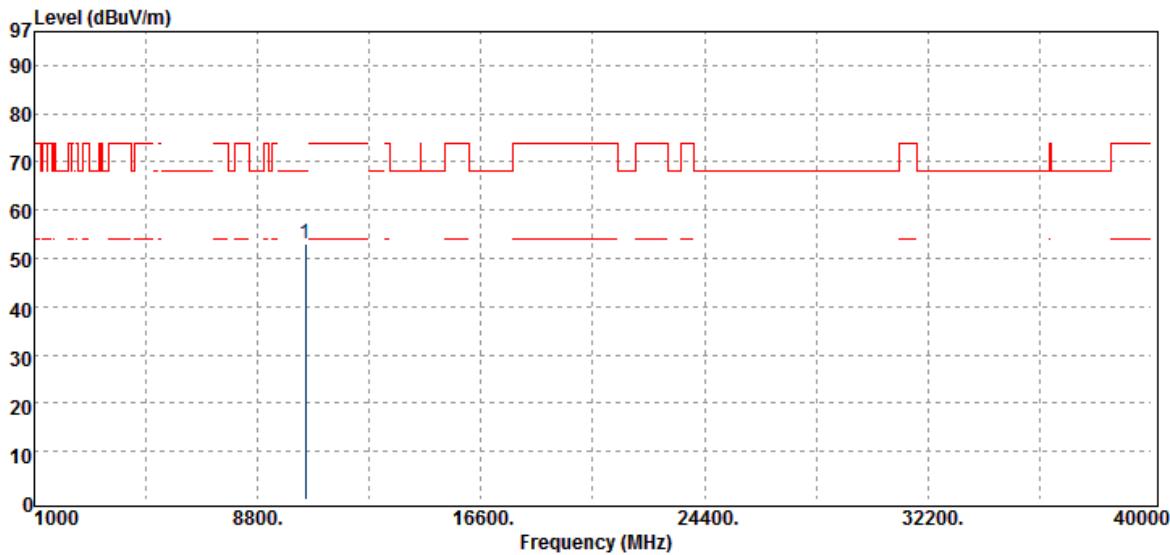
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Operation Band	:802.11aB1	Test Date	:2018-10-02
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	33.06	20.07	53.13	68.20	-15.07

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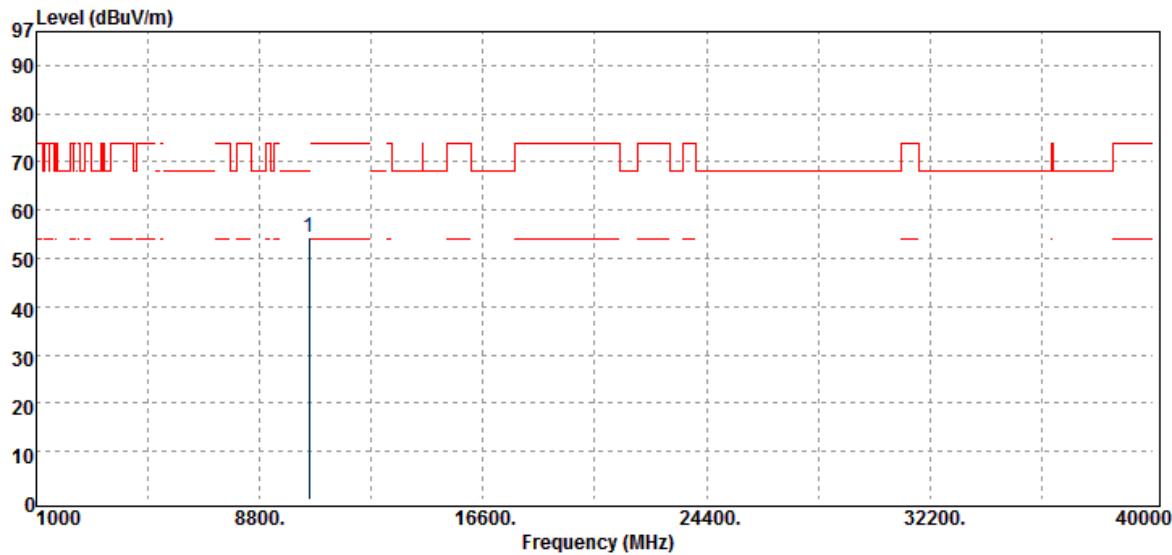
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**Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz**

Operation Band	:802.11aB2	Test Date	:2018-10-02
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	34.21	20.00	54.21	68.20	-13.99

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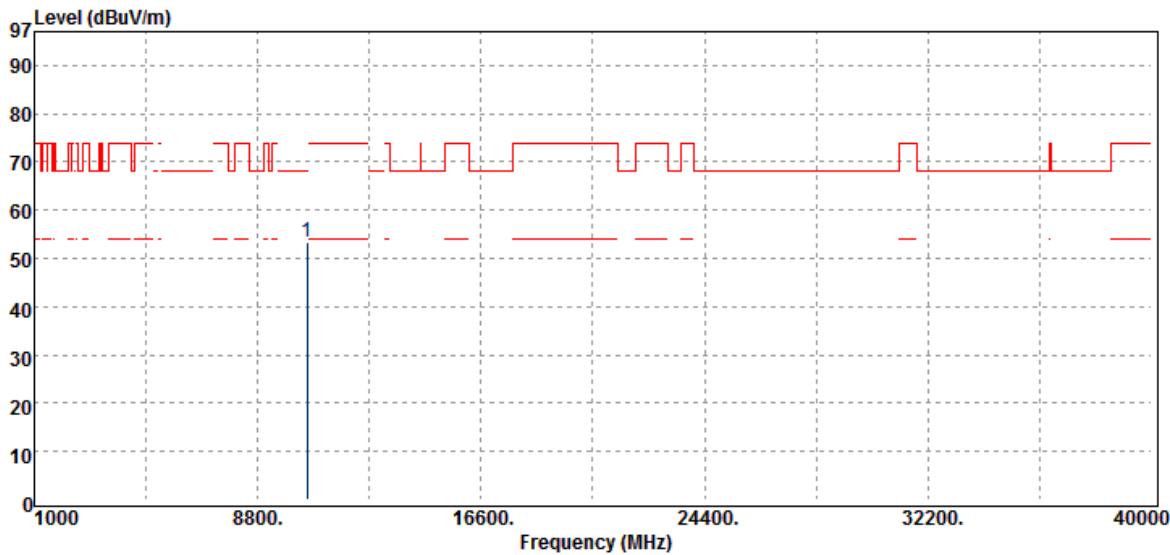
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Operation Band	:802.11aB2	Test Date	:2018-10-02
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	33.39	20.00	53.39	68.20	-14.81

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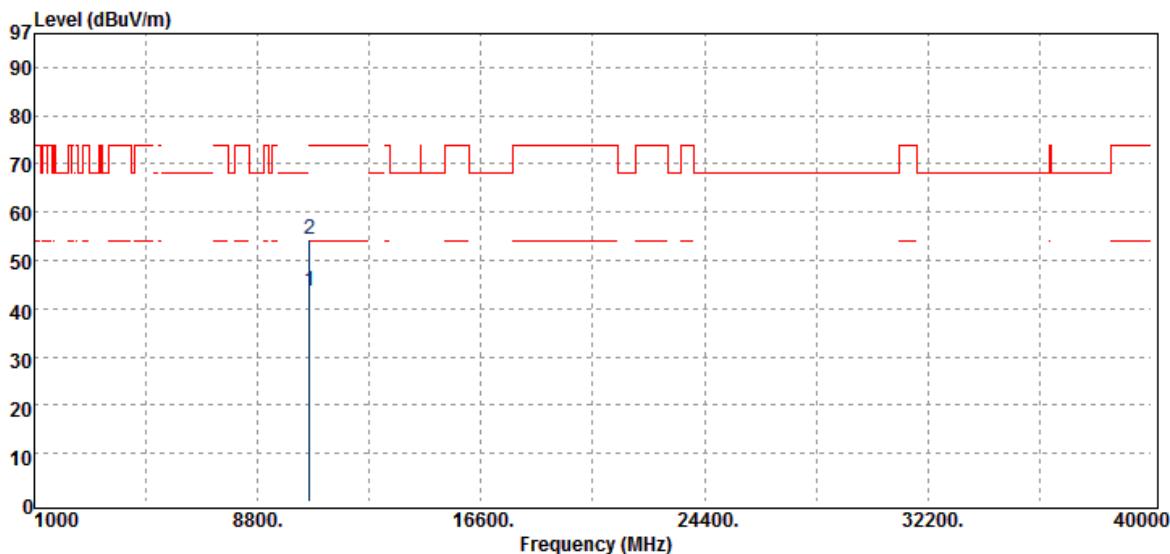
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Operation Band :802.11aB2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Kane  
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	23.27	20.38	43.65	54.00	-10.35
10600.00	Peak	33.92	20.38	54.30	74.00	-19.70

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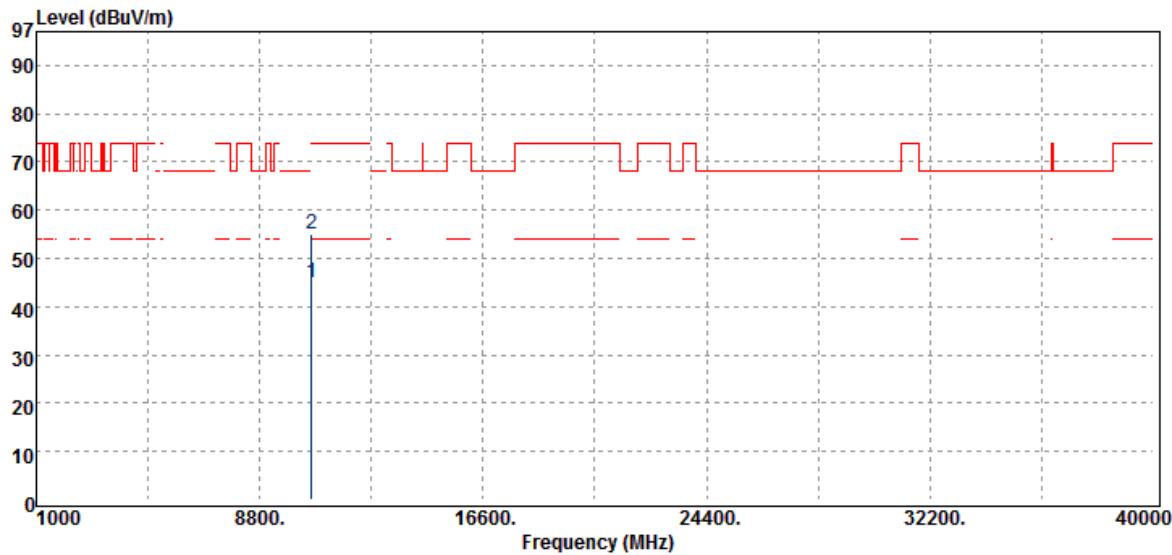
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Operation Band :802.11aB2  
 Fundamental Frequency :5300 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-10-02  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Kane  
 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	24.67	20.38	45.05	54.00	-8.95
10600.00	Peak	34.79	20.38	55.17	74.00	-18.83

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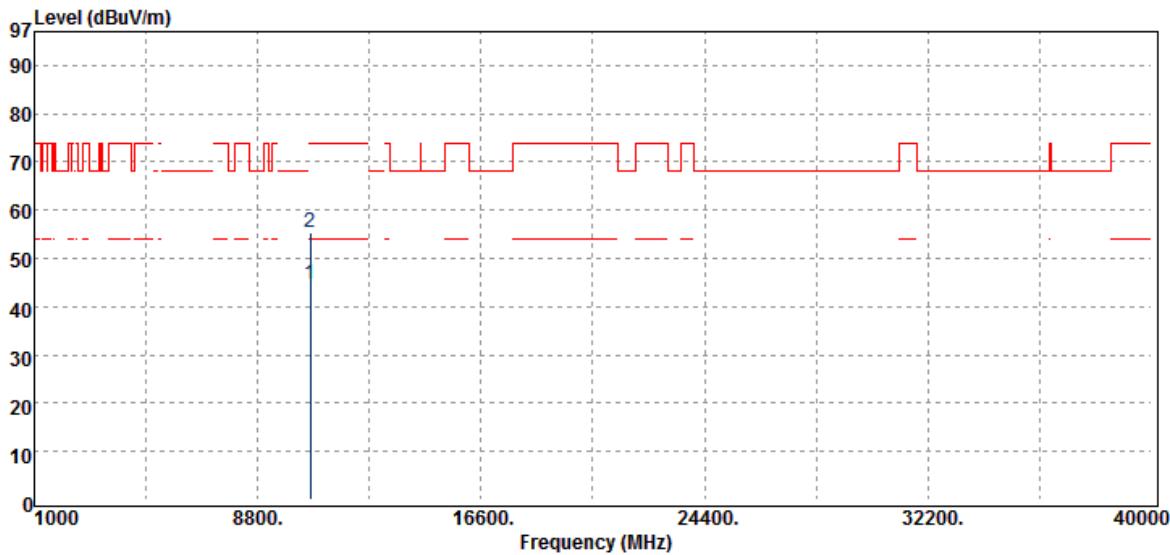
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Operation Band :802.11aB2  
Fundamental Frequency :5320 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	24.33	20.44	44.77	54.00	-9.23
10640.00	Peak	34.92	20.44	55.36	74.00	-18.64

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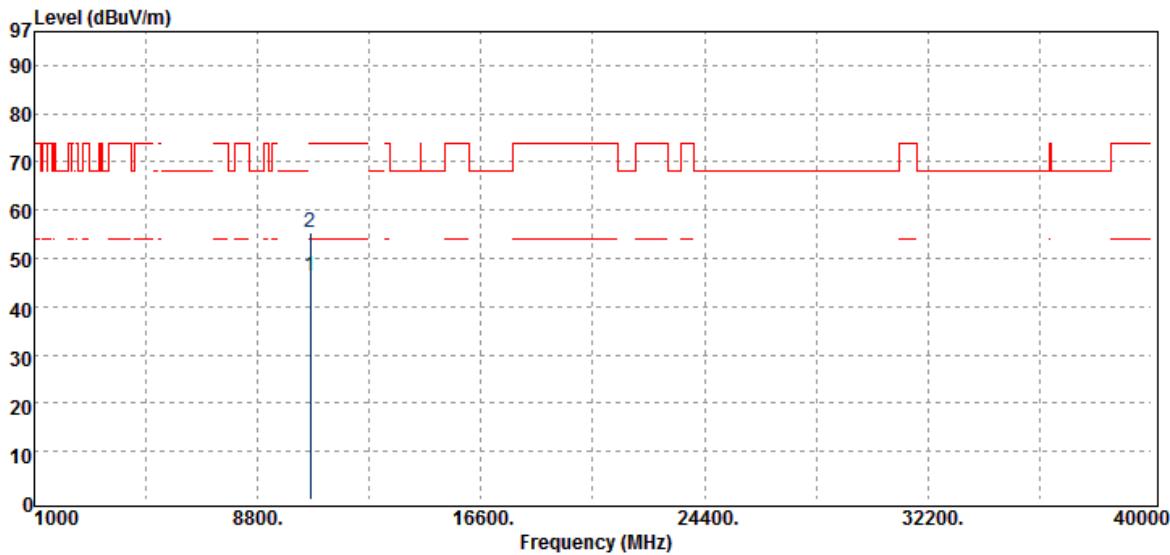
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Operation Band :802.11aB2  
Fundamental Frequency :5320 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	25.83	20.44	46.27	54.00	-7.73
10640.00	Peak	35.08	20.44	55.52	74.00	-18.48

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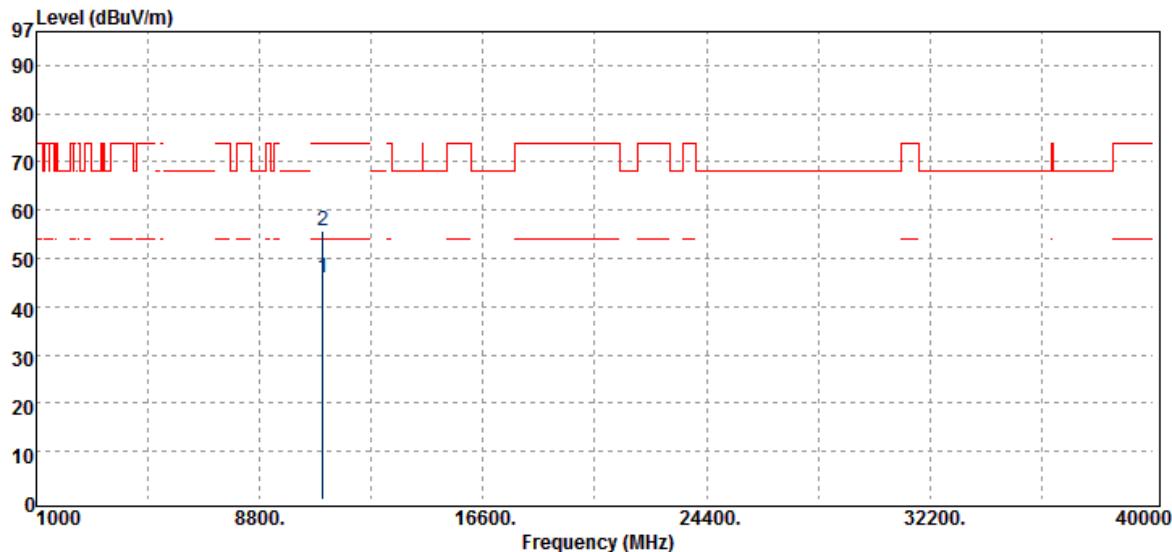
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**Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz**

Operation Band	:802.11aB3	Test Date	:2018-10-02
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	24.71	21.37	46.08	54.00	-7.92
11000.00	Peak	34.34	21.37	55.71	74.00	-18.29

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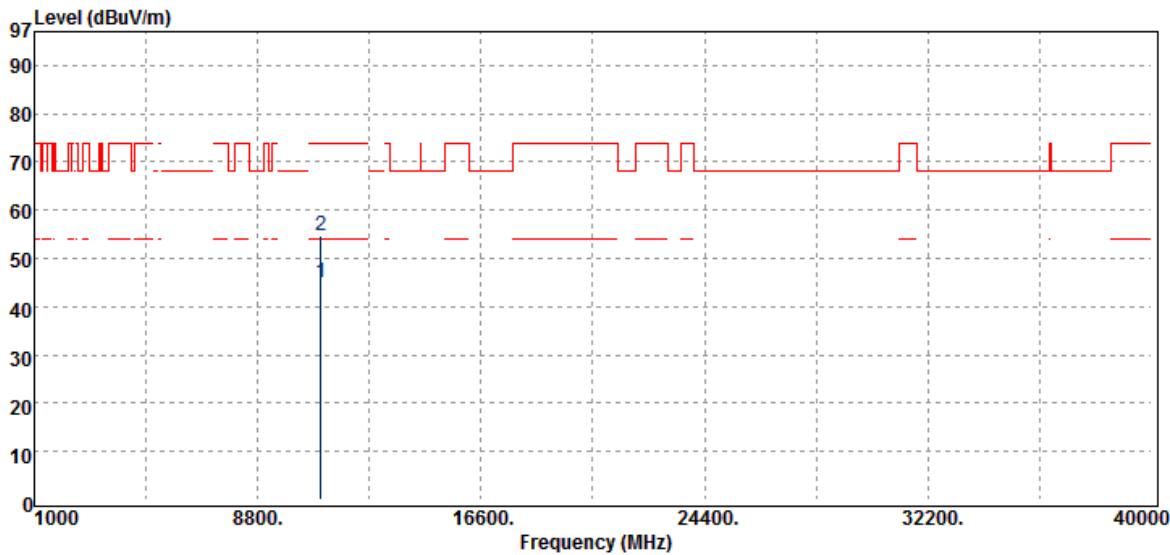
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Operation Band :802.11aB3  
Fundamental Frequency :5500 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	23.77	21.37	45.14	54.00	-8.86
11000.00	Peak	33.38	21.37	54.75	74.00	-19.25

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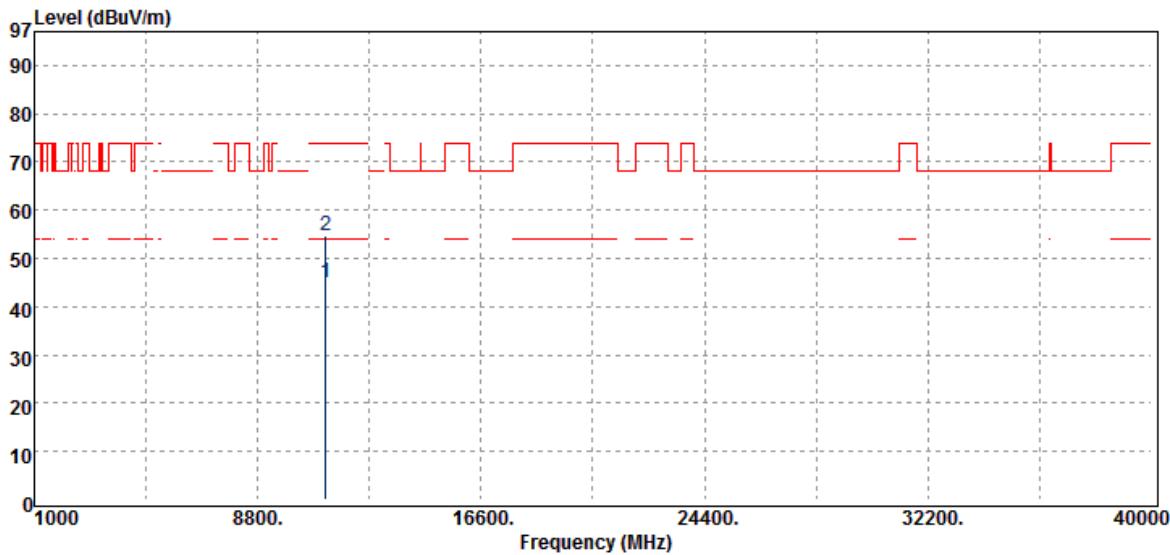
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Member of SGS Group

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

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	23.61	21.51	45.12	54.00	-8.88
11160.00	Peak	33.30	21.51	54.81	74.00	-19.19

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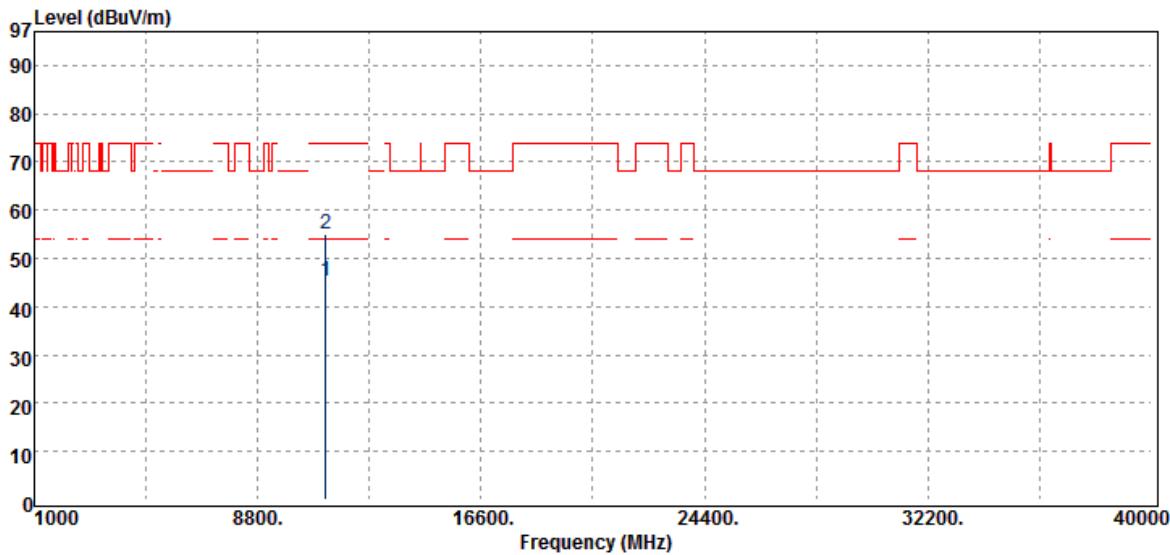
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Operation Band :802.11aB3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	23.91	21.51	45.42	54.00	-8.58
11160.00	Peak	33.44	21.51	54.95	74.00	-19.05

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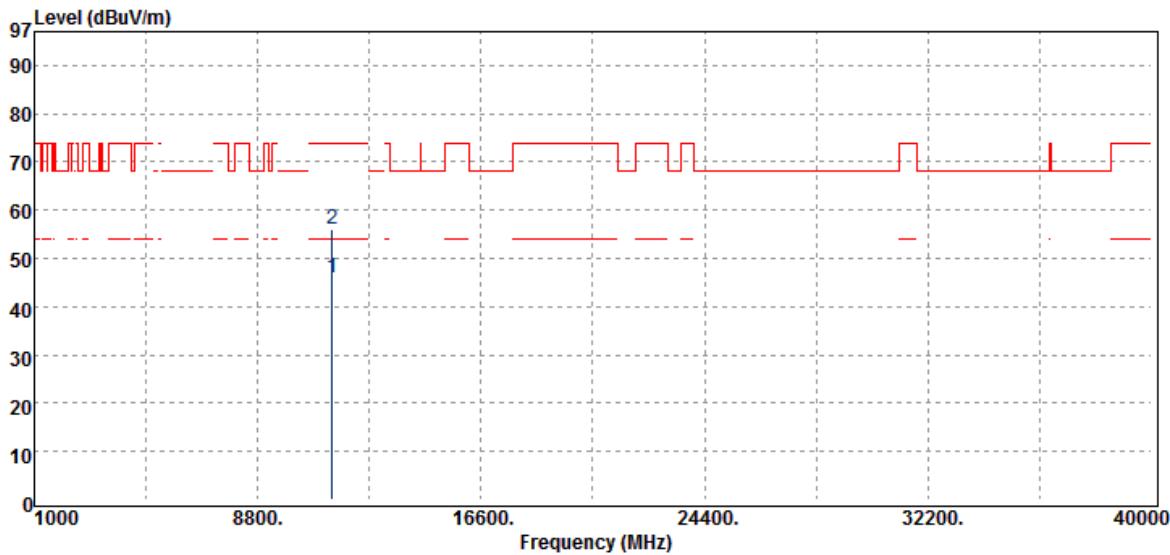
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Member of SGS Group

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

Test Date :2018-10-02  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	24.37	21.62	45.99	54.00	-8.01
11400.00	Peak	34.51	21.62	56.13	74.00	-17.87

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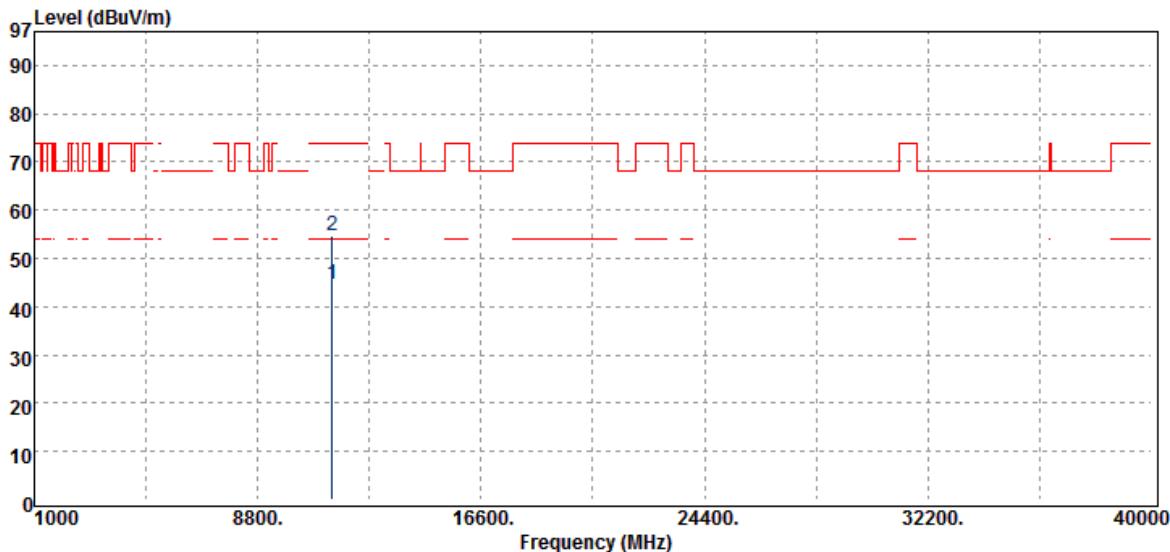
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Operation Band	:802.11aB3	Test Date	:2018-10-02
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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
11400.00	Average	22.87	21.62	44.49	54.00	-9.51
11400.00	Peak	32.96	21.62	54.58	74.00	-19.42

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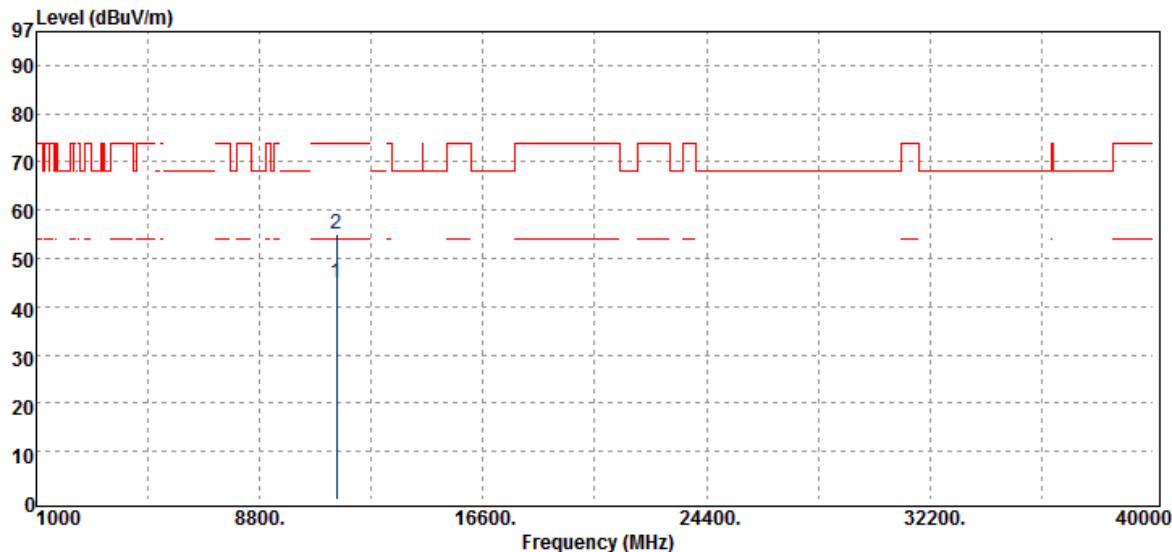
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**Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz**

Operation Band	:802.11aB4	Test Date	:2018-10-02
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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
11490.00	Average	23.27	21.61	44.88	54.00	-9.12
11490.00	Peak	33.51	21.61	55.12	74.00	-18.88

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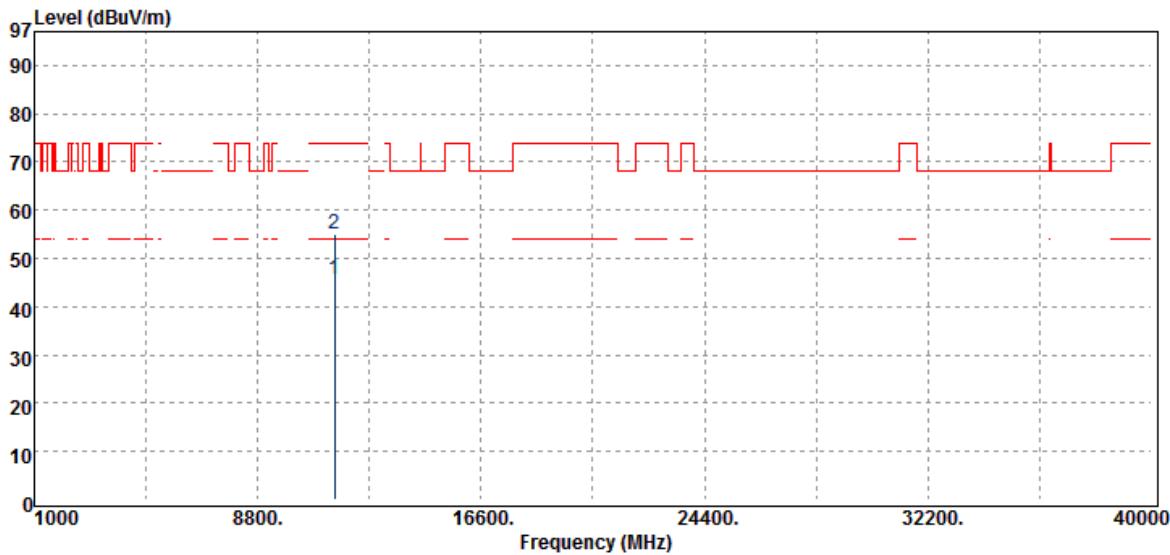
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Operation Band :802.11aB4  
Fundamental Frequency :5745 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11490.00	Average	23.92	21.61	45.53	54.00	-8.47
11490.00	Peak	33.39	21.61	55.00	74.00	-19.00

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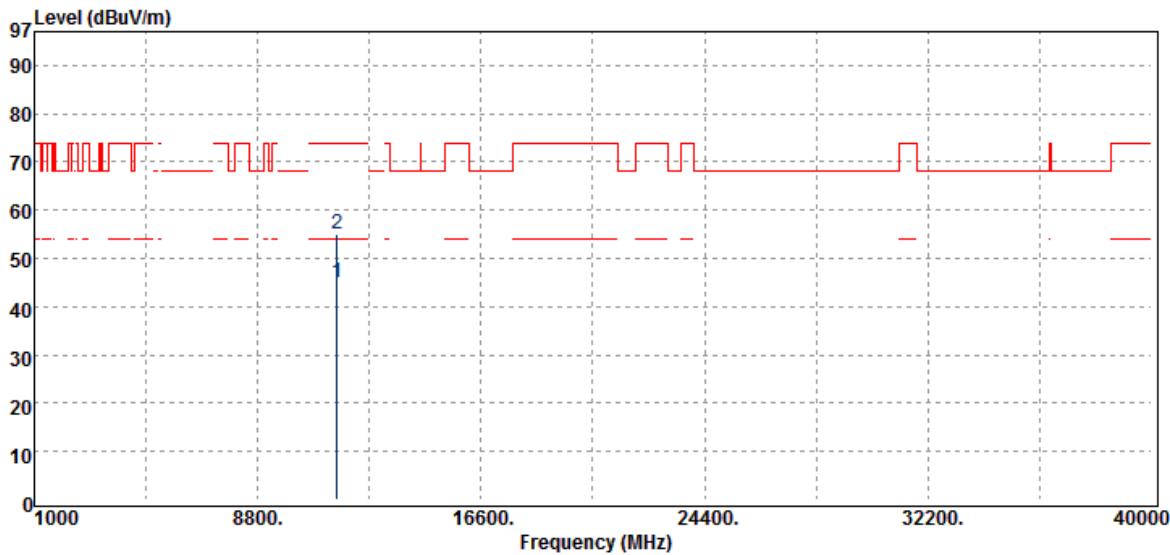
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Operation Band :802.11aB4  
Fundamental Frequency :5785 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11570.00	Average	23.28	21.66	44.94	54.00	-9.06
11570.00	Peak	33.53	21.66	55.19	74.00	-18.81

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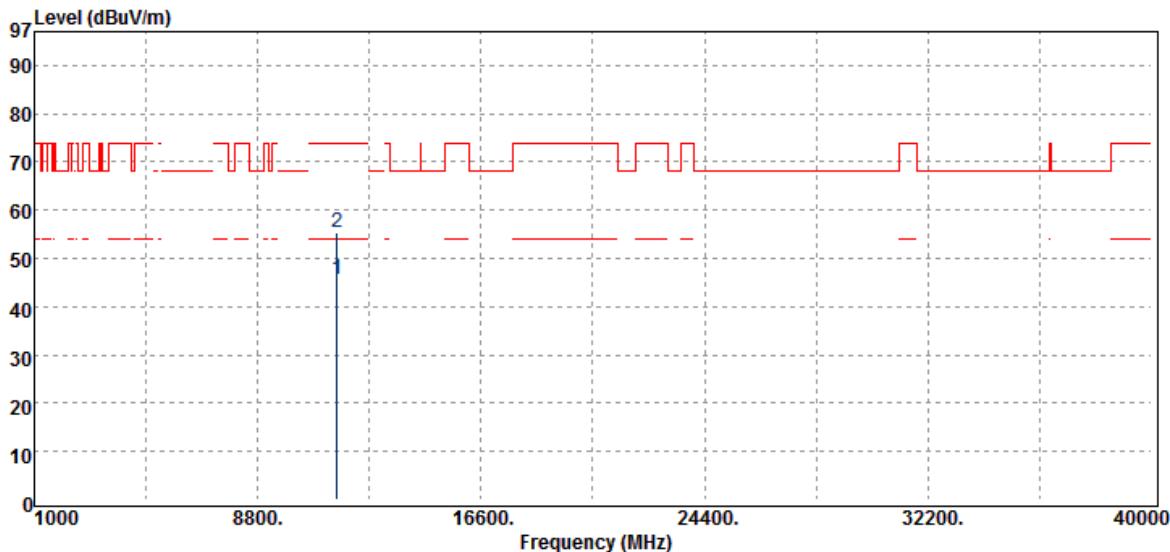
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Operation Band :802.11aB4  
Fundamental Frequency :5785 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11570.00	Average	23.92	21.66	45.58	54.00	-8.42
11570.00	Peak	33.80	21.66	55.46	74.00	-18.54

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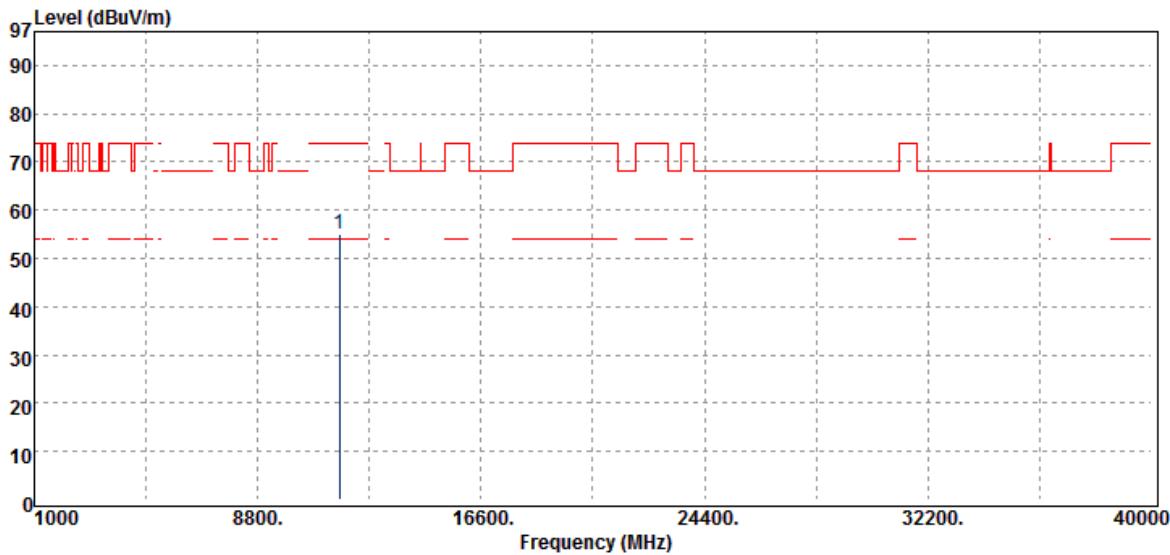
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Operation Band :802.11aB4  
Fundamental Frequency :5825 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11650.00	Peak	33.40	21.60	55.00	74.00	-19.00

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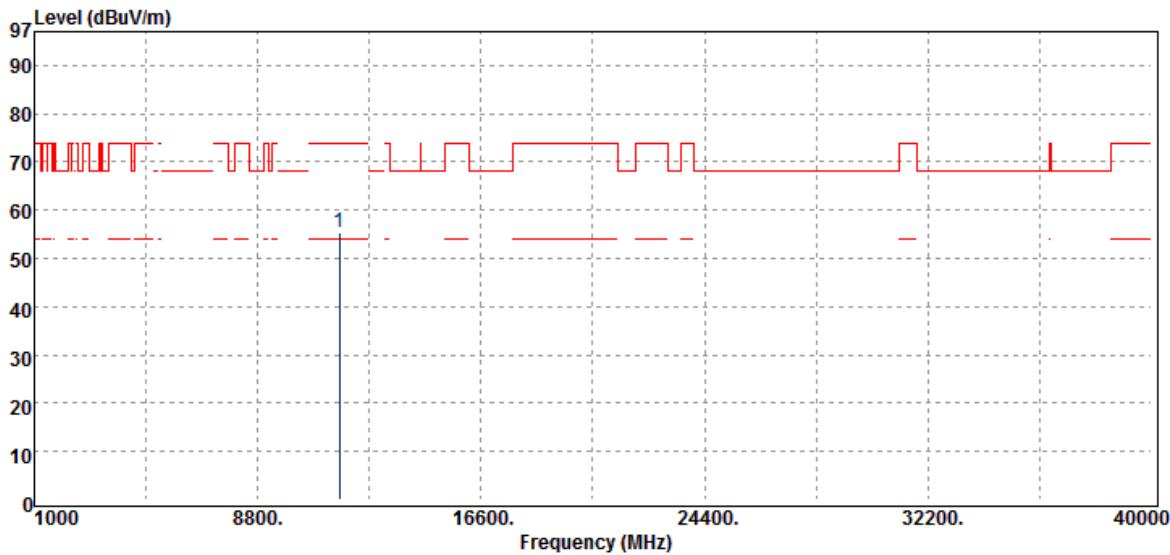
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Operation Band :802.11aB4  
Fundamental Frequency :5825 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11650.00	Peak	33.73	21.60	55.33	74.00	-18.67

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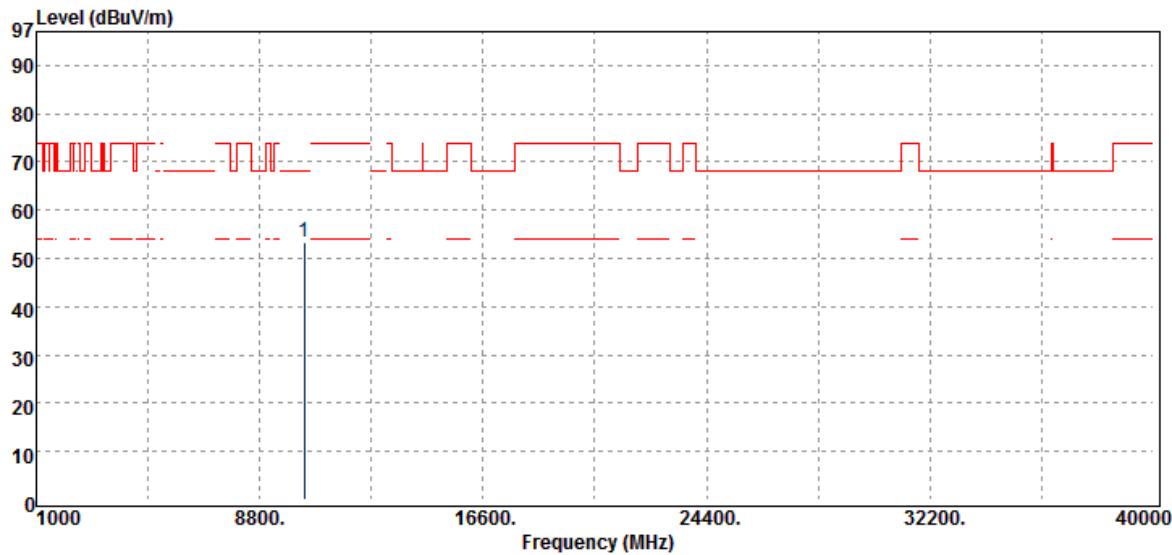
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz**

Operation Band	:802.11n20B1	Test Date	:2018-10-02
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	33.63	19.71	53.34	68.20	-14.86

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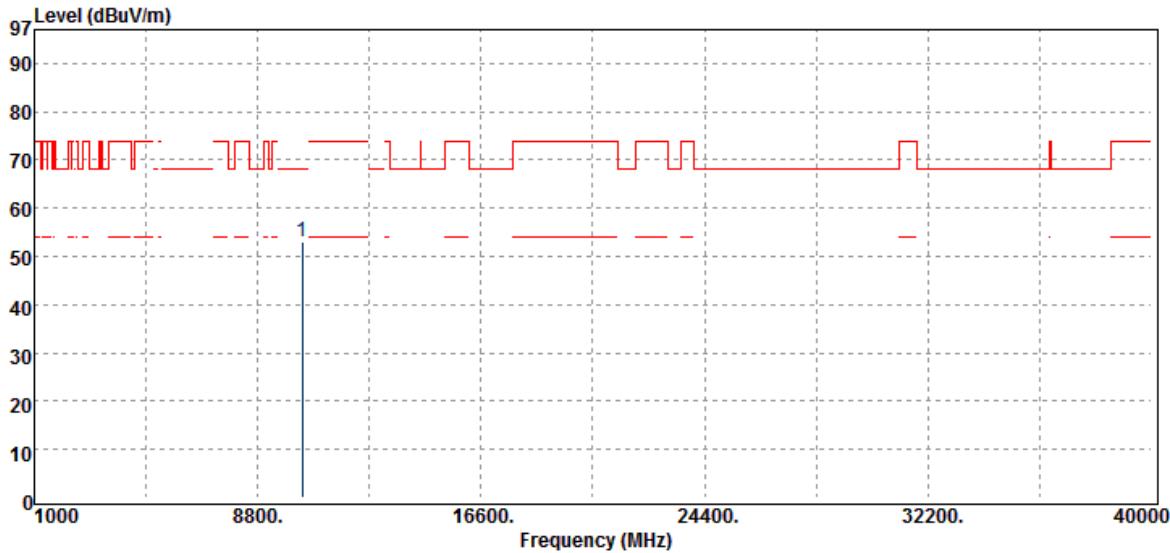
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Operation Band	:802.11n20B1	Test Date	:2018-10-02
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	33.28	19.71	52.99	68.20	-15.21

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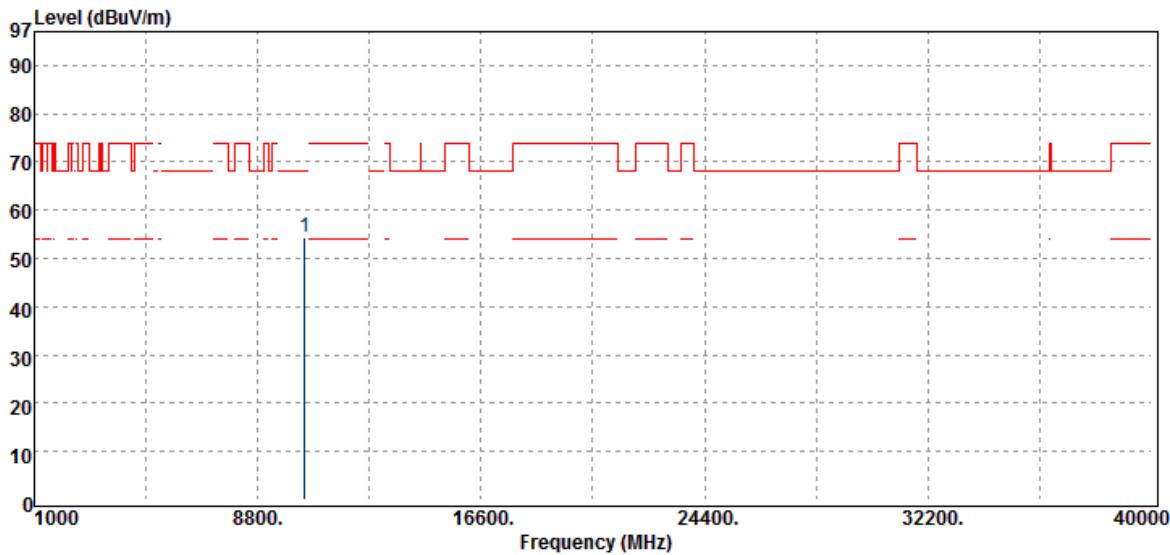
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Operation Band	:802.11n20B1	Test Date	:2018-10-02
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	34.23	20.05	54.28	68.20	-13.92

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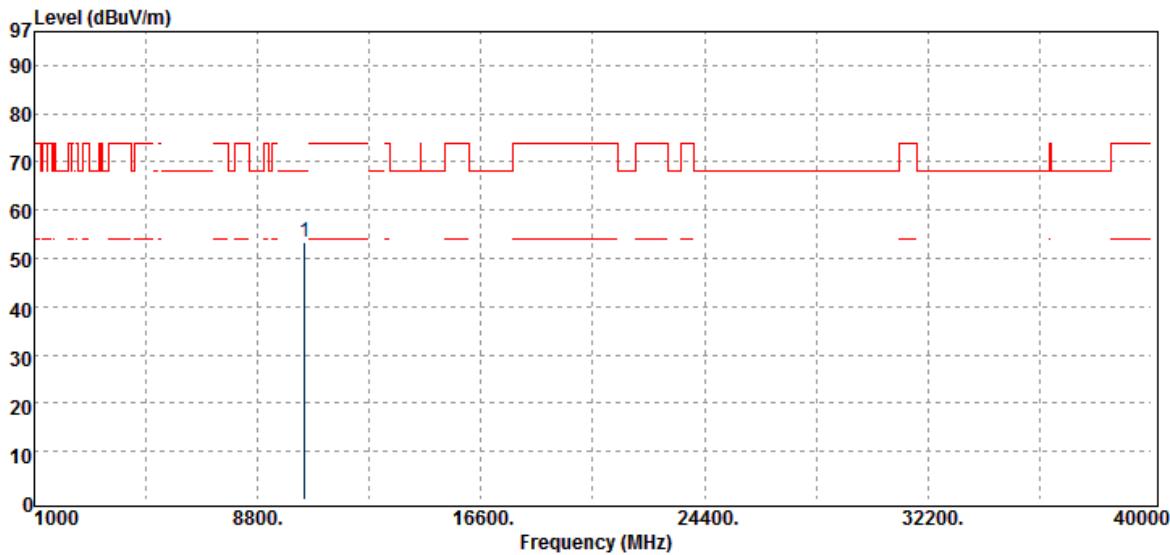
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Operation Band	:802.11n20B1	Test Date	:2018-10-02
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. 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	33.35	20.05	53.40	68.20	-14.80

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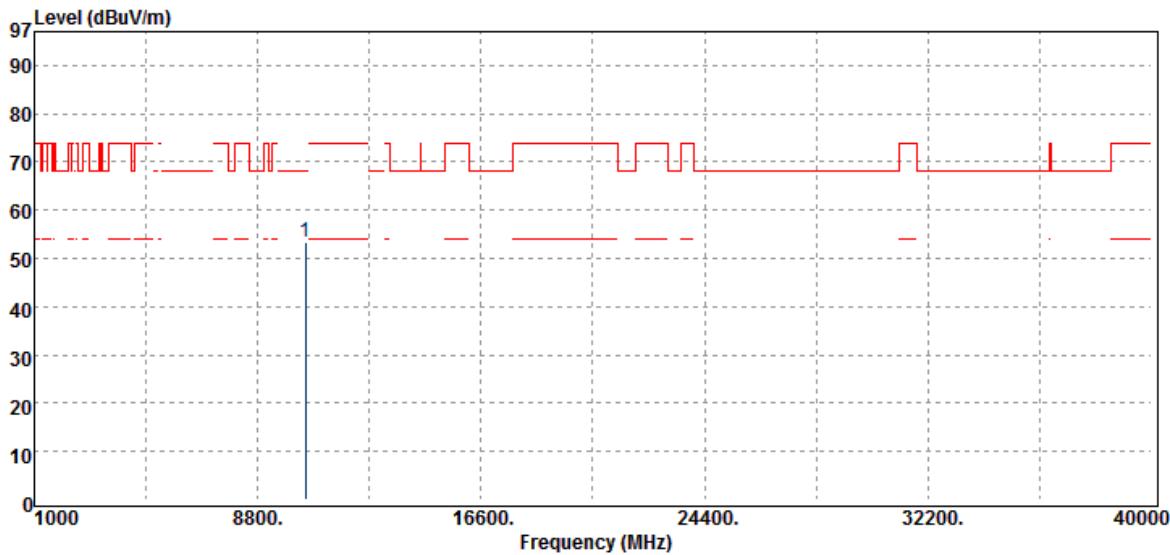
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Operation Band	:802.11n20B1	Test Date	:2018-10-02
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	33.43	20.07	53.50	68.20	-14.70

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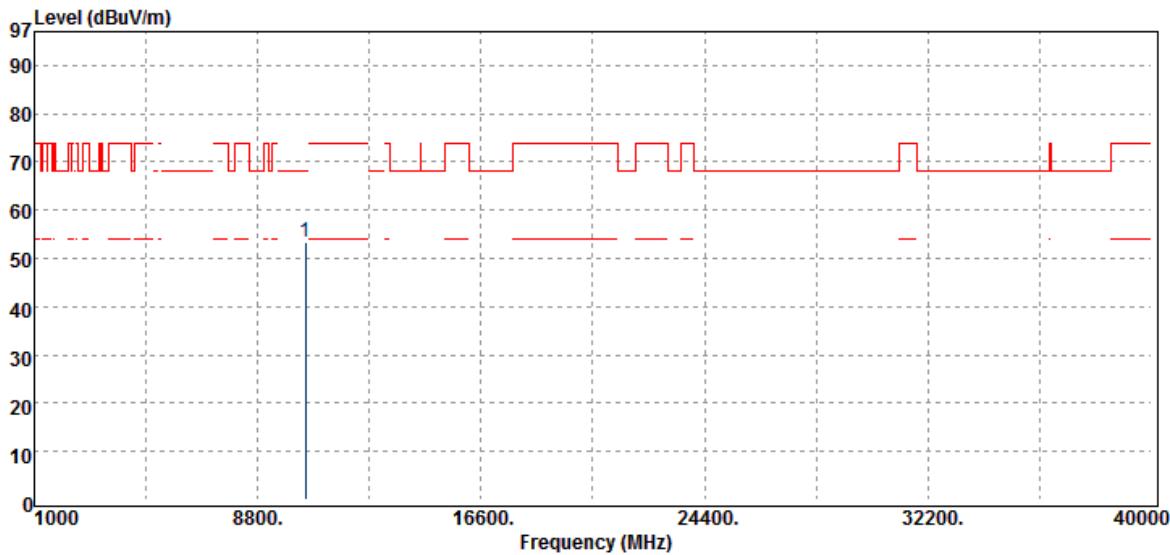
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Operation Band :802.11n20B1  
Fundamental Frequency :5240 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	33.40	20.07	53.47	68.20	-14.73

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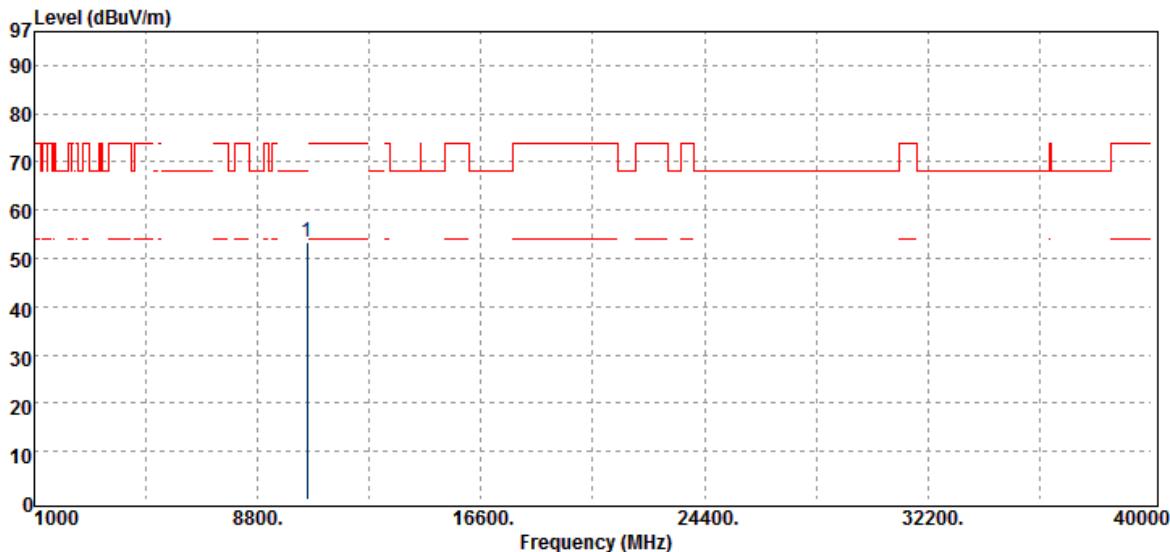
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz**

Operation Band	:802.11n20B2	Test Date	:2018-10-02
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	33.33	20.00	53.33	68.20	-14.87

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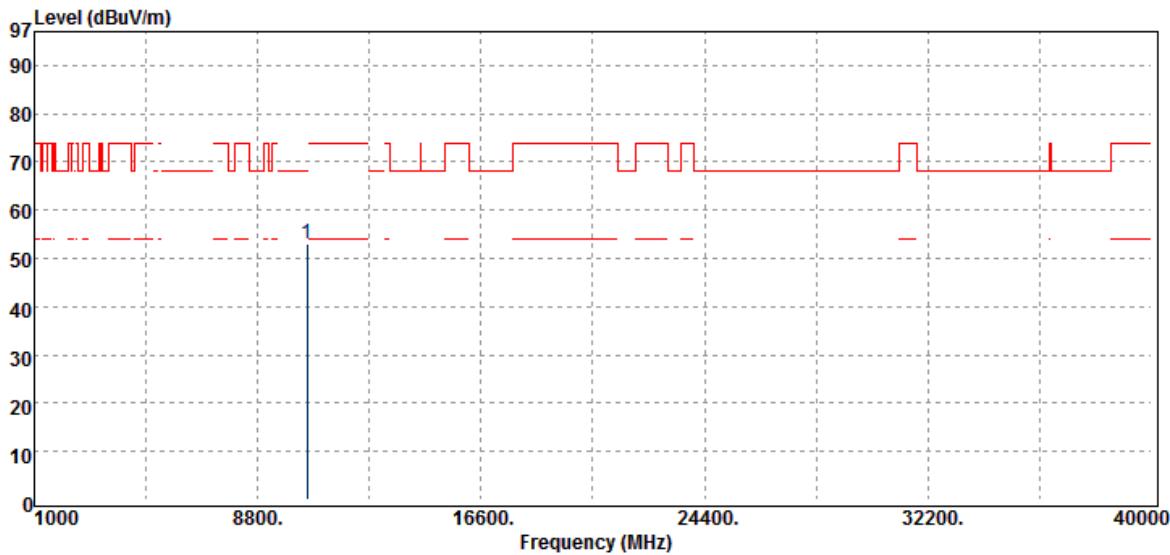
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Operation Band :802.11n20B2  
Fundamental Frequency :5260 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-02  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	33.14	20.00	53.14	68.20	-15.06

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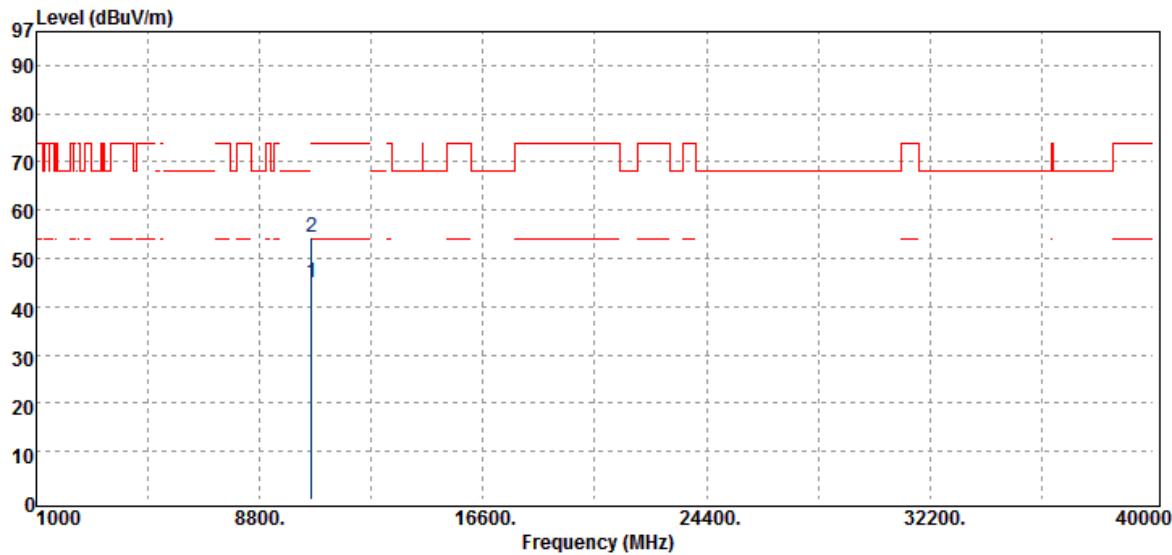
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Operation Band :802.11n20B2  
Fundamental Frequency :5300 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	24.47	20.38	44.85	54.00	-9.15
10600.00	Peak	34.04	20.38	54.42	74.00	-19.58

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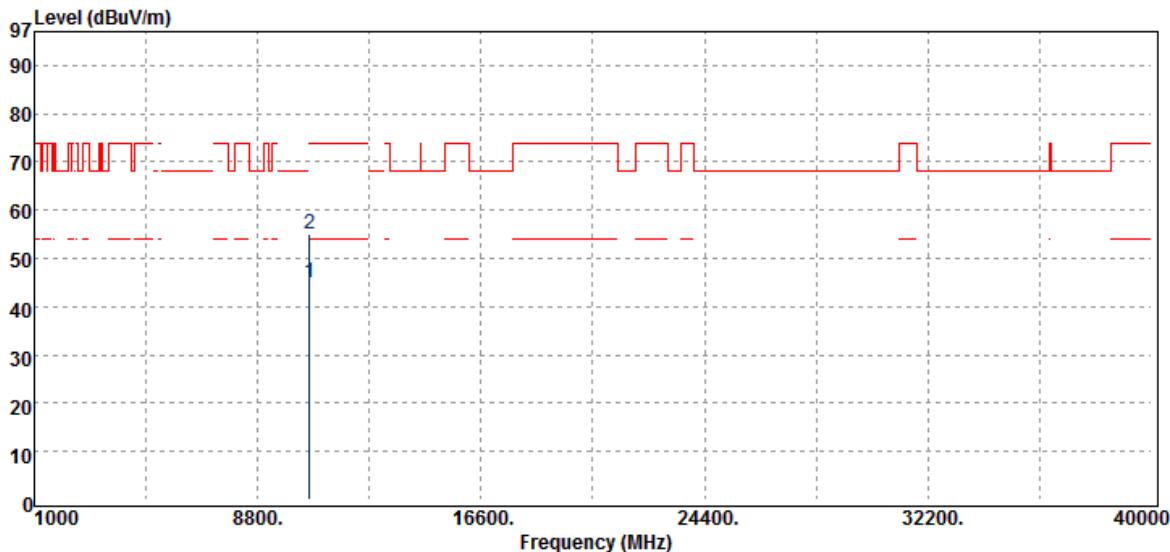
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Operation Band	:802.11n20B2	Test Date	:2018-10-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. 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	24.45	20.38	44.83	54.00	-9.17
10600.00	Peak	34.51	20.38	54.89	74.00	-19.11

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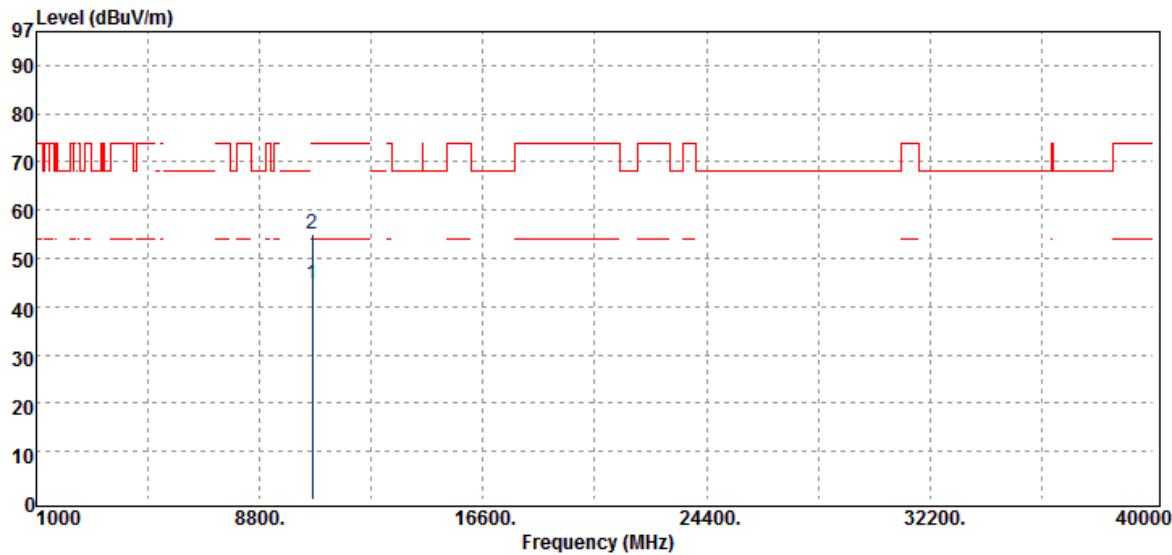
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	24.32	20.44	44.76	54.00	-9.24
10640.00	Peak	34.74	20.44	55.18	74.00	-18.82

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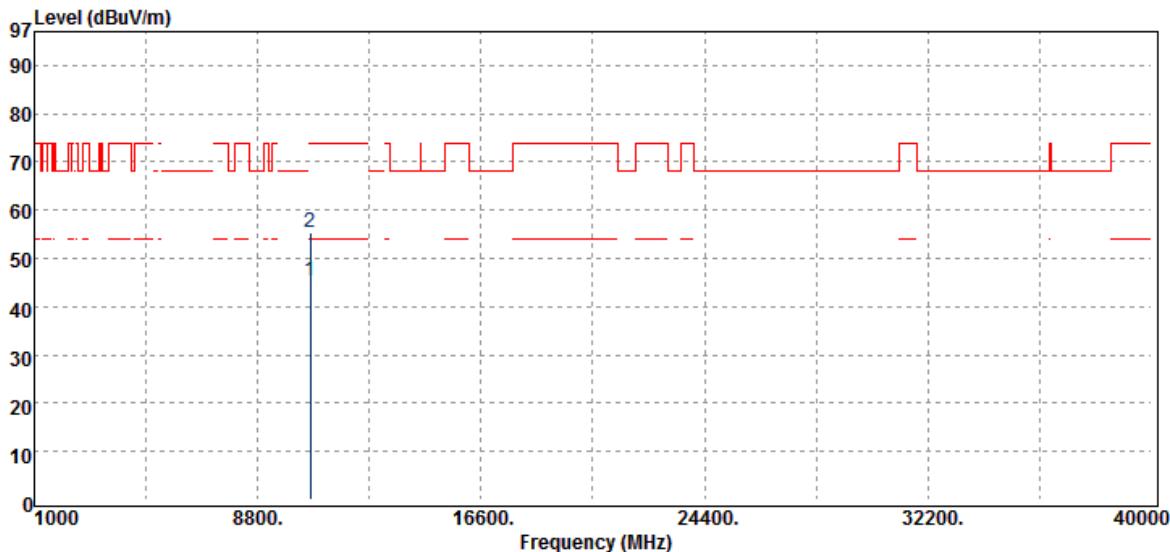
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Operation Band	:802.11n20B2	Test Date	:2018-10-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. 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	24.87	20.44	45.31	54.00	-8.69
10640.00	Peak	34.91	20.44	55.35	74.00	-18.65

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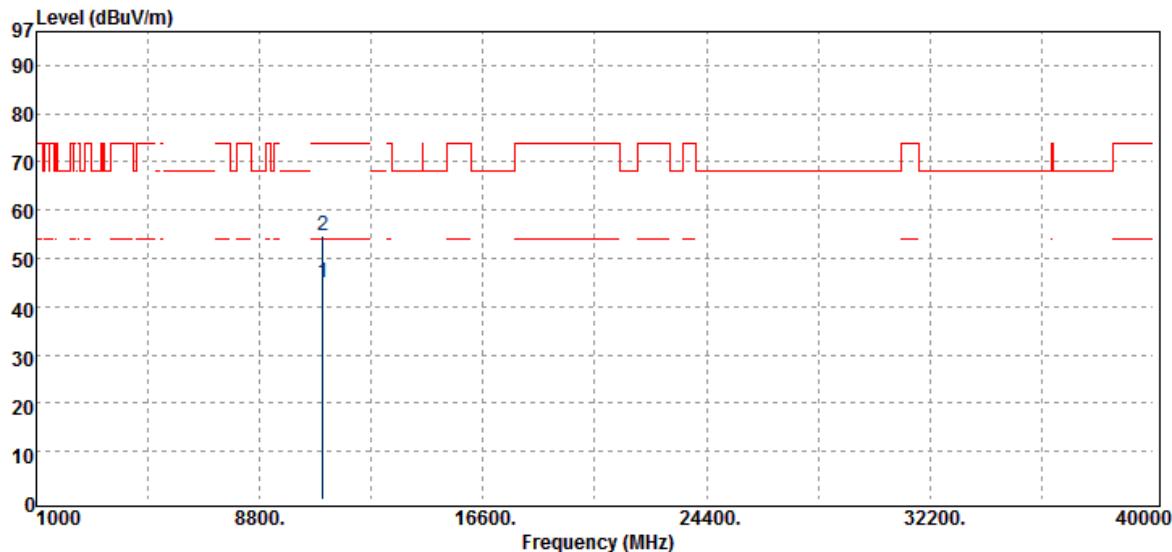
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz**

Operation Band	:802.11n20B3	Test Date	:2018-10-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	23.47	21.37	44.84	54.00	-9.16
11000.00	Peak	33.33	21.37	54.70	74.00	-19.30

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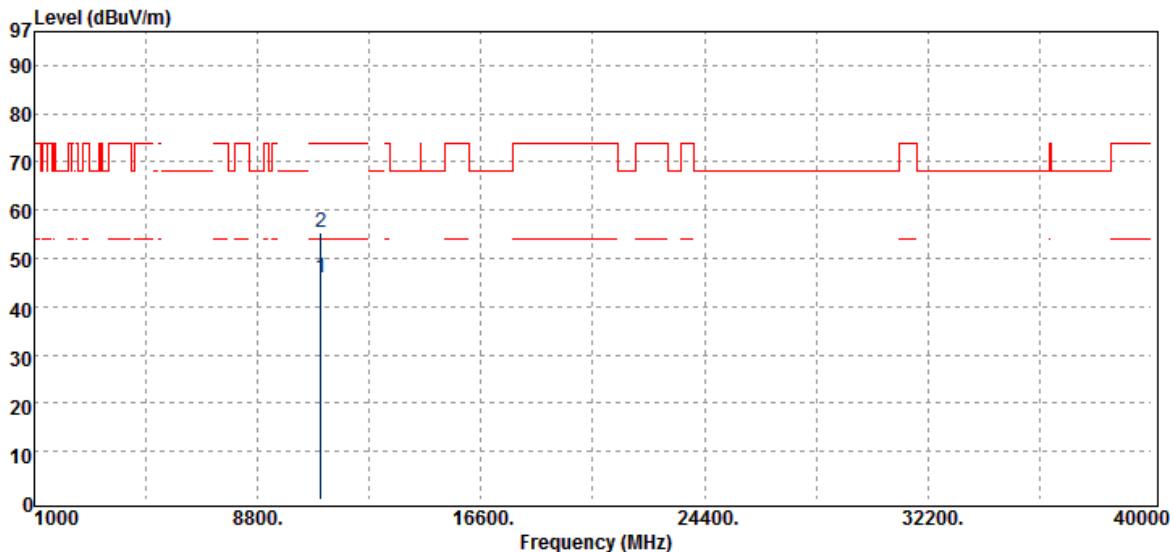
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Operation Band	:802.11n20B3	Test Date	:2018-10-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	24.72	21.37	46.09	54.00	-7.91
11000.00	Peak	34.17	21.37	55.54	74.00	-18.46

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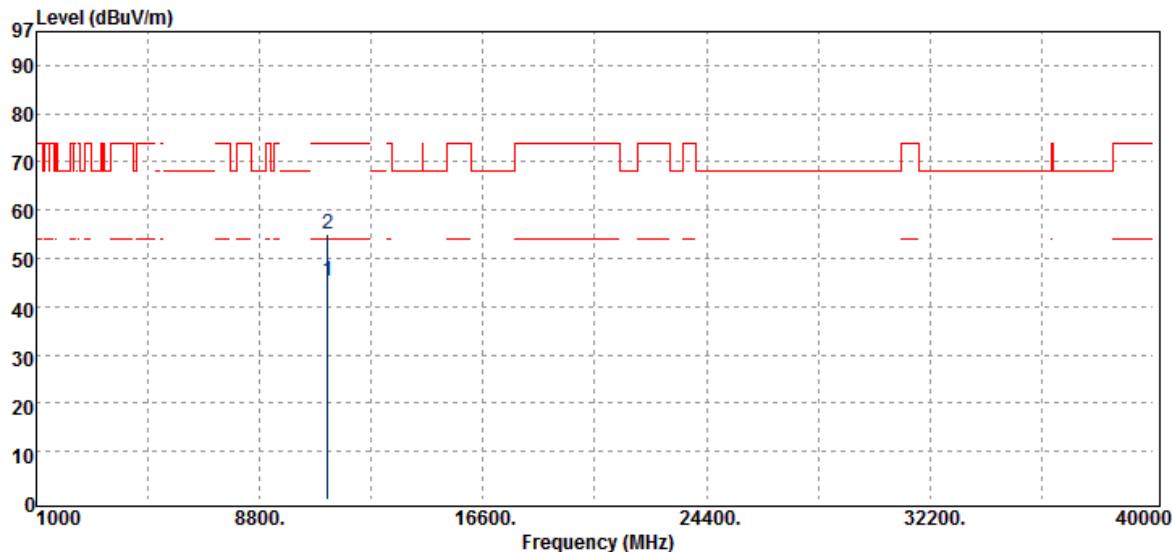
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Operation Band :802.11n20B3  
Fundamental Frequency :5580 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	23.81	21.51	45.32	54.00	-8.68
11160.00	Peak	33.64	21.51	55.15	74.00	-18.85

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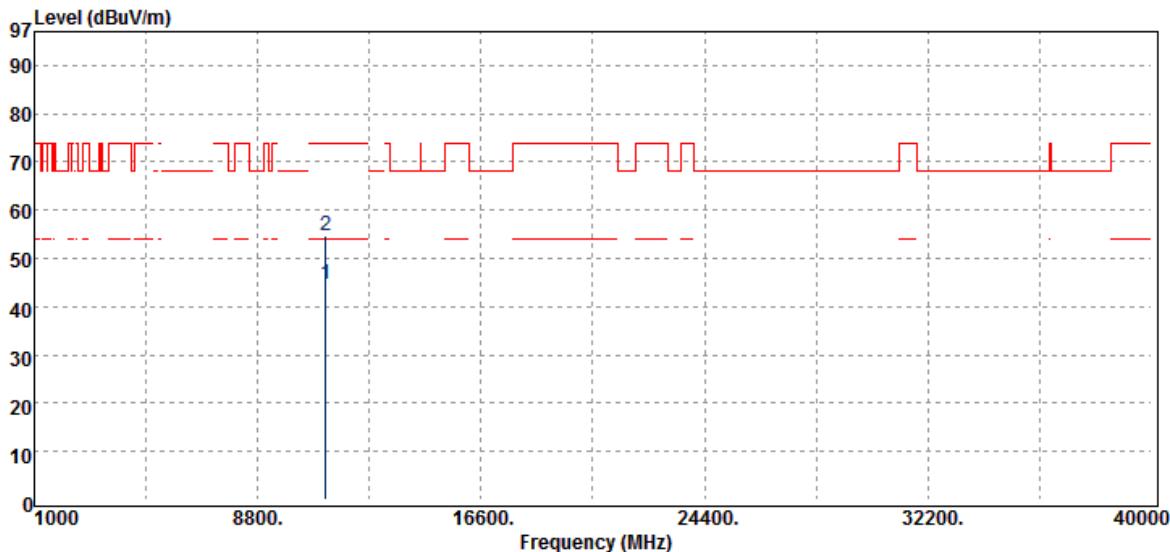
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Operation Band	:802.11n20B3	Test Date	:2018-10-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. 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	23.20	21.51	44.71	54.00	-9.29
11160.00	Peak	33.12	21.51	54.63	74.00	-19.37

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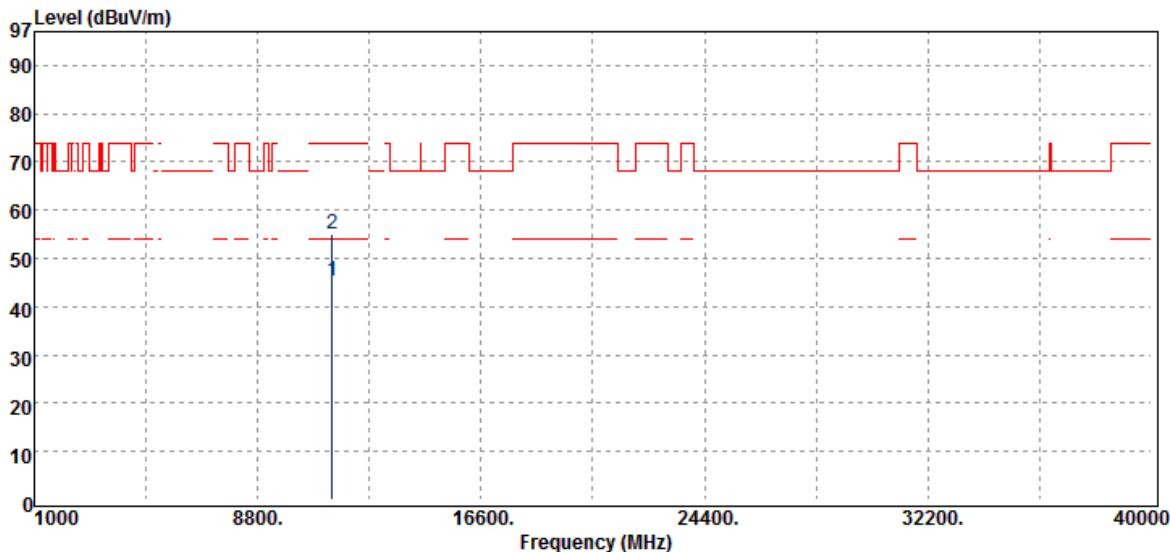
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Operation Band :802.11n20B3  
Fundamental Frequency :5700 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	23.67	21.62	45.29	54.00	-8.71
11400.00	Peak	33.29	21.62	54.91	74.00	-19.09

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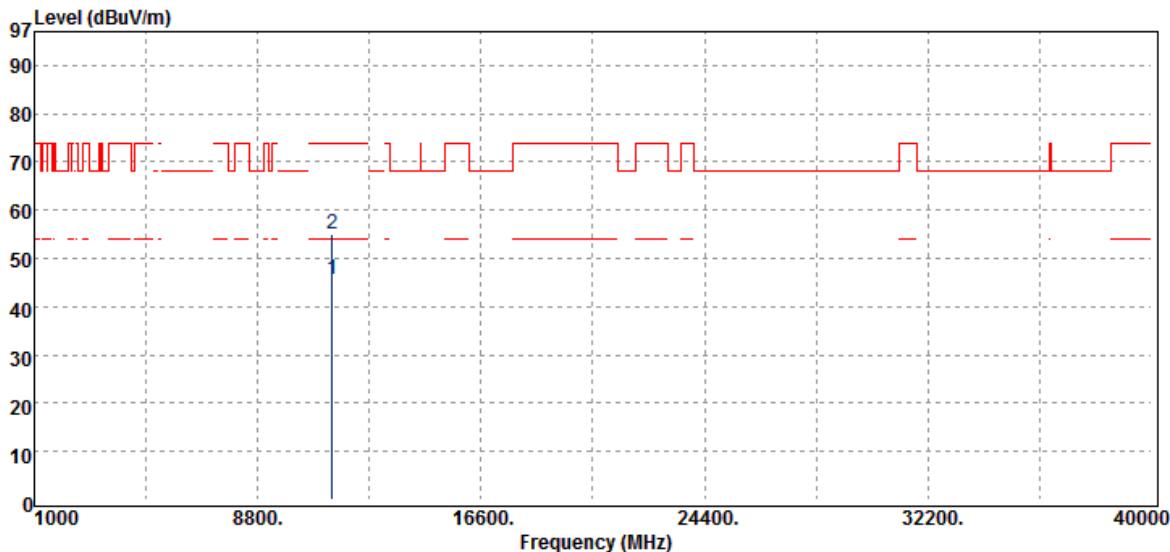
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Operation Band	:802.11n20B3	Test Date	:2018-10-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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
11400.00	Average	23.94	21.62	45.56	54.00	-8.44
11400.00	Peak	33.43	21.62	55.05	74.00	-18.95

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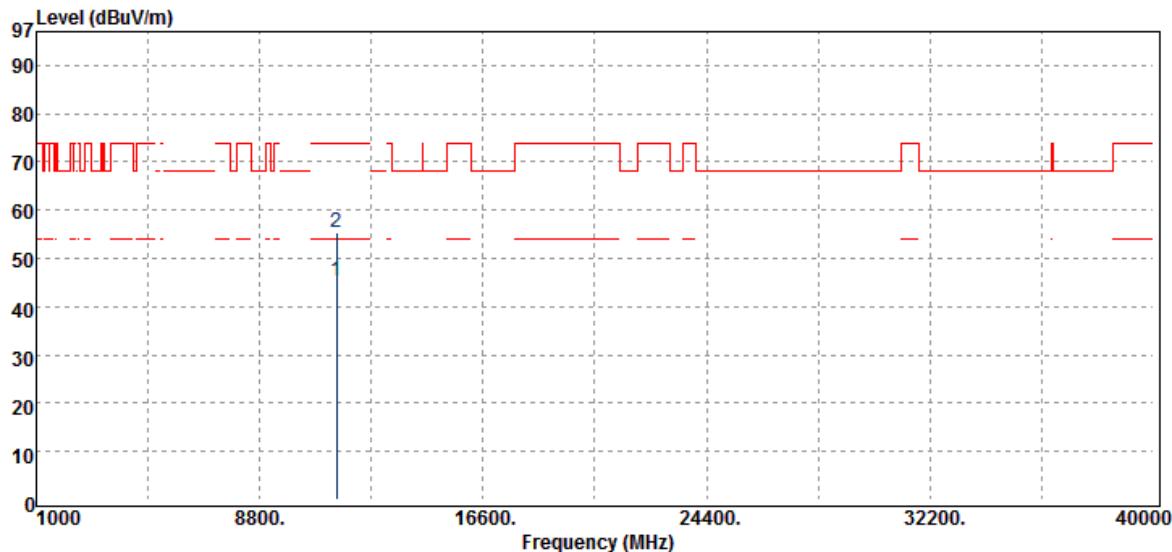
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz**

Operation Band	:802.11n20B4	Test Date	:2018-10-03
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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
11490.00	Average	23.62	21.61	45.23	54.00	-8.77
11490.00	Peak	33.94	21.61	55.55	74.00	-18.45

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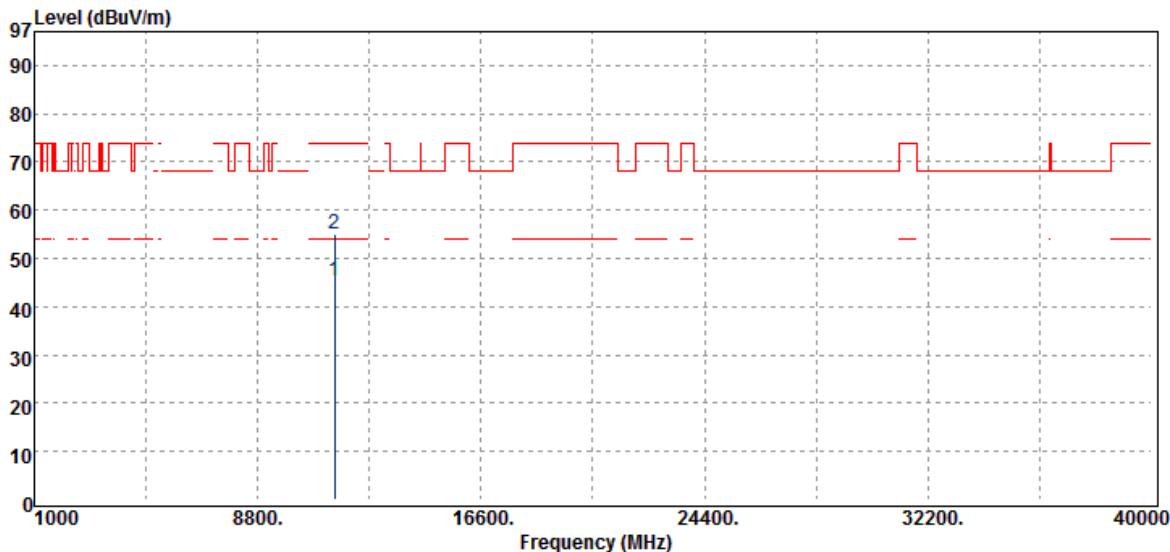
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Operation Band :802.11n20B4  
Fundamental Frequency :5745 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11490.00	Average	23.71	21.61	45.32	54.00	-8.68
11490.00	Peak	33.60	21.61	55.21	74.00	-18.79

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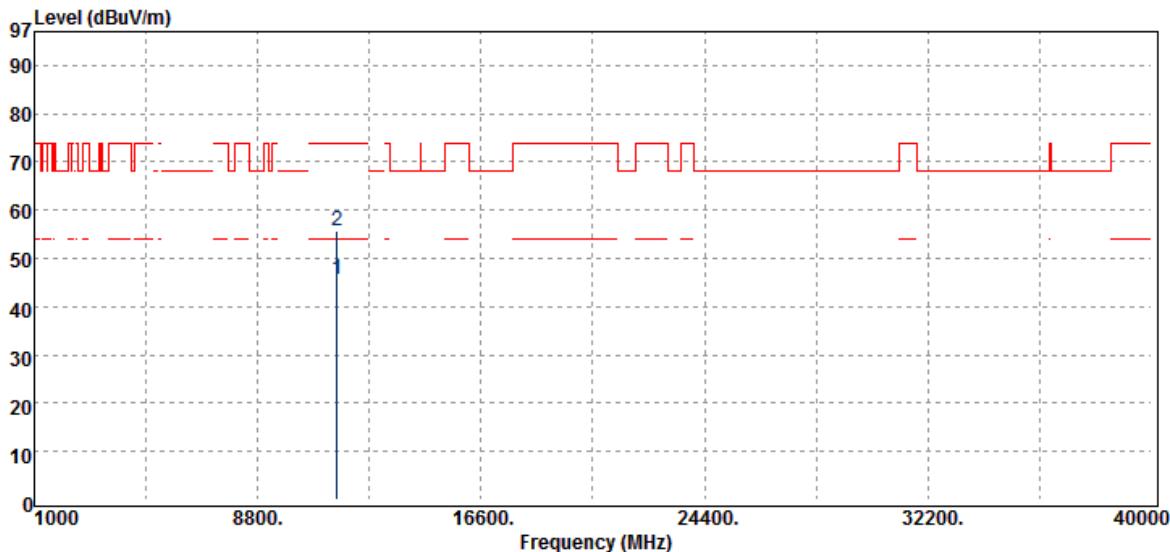
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Operation Band :802.11n20B4  
Fundamental Frequency :5785 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
11570.00	Average	23.98	21.66	45.64	54.00	-8.36
11570.00	Peak	33.90	21.66	55.56	74.00	-18.44

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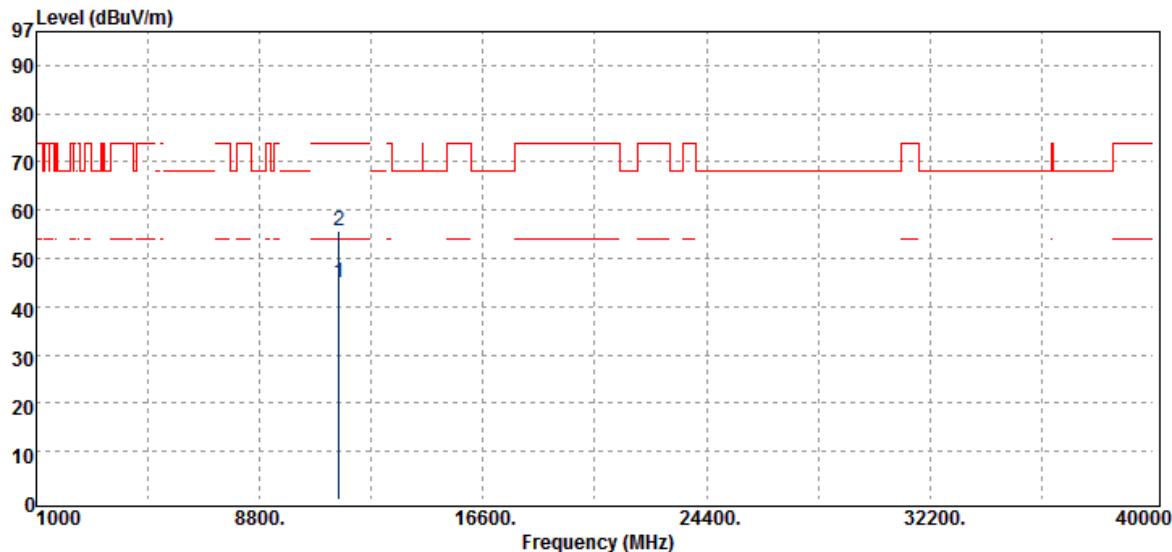
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Operation Band :802.11n20B4  
 Fundamental Frequency :5785 MHz  
 Operation Mode :Tx CH MID  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
11570.00	Average	23.38	21.66	45.04	54.00	-8.96
11570.00	Peak	33.92	21.66	55.58	74.00	-18.42

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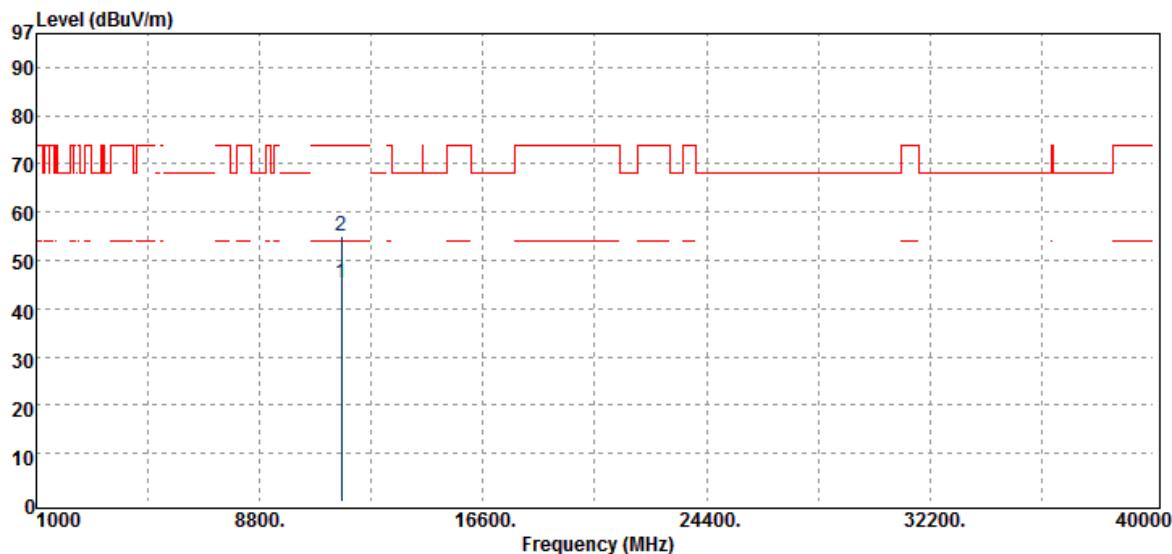
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Operation Band :802.11n20B4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
11650.00	Average	23.71	21.60	45.31	54.00	-8.69
11650.00	Peak	33.50	21.60	55.10	74.00	-18.90

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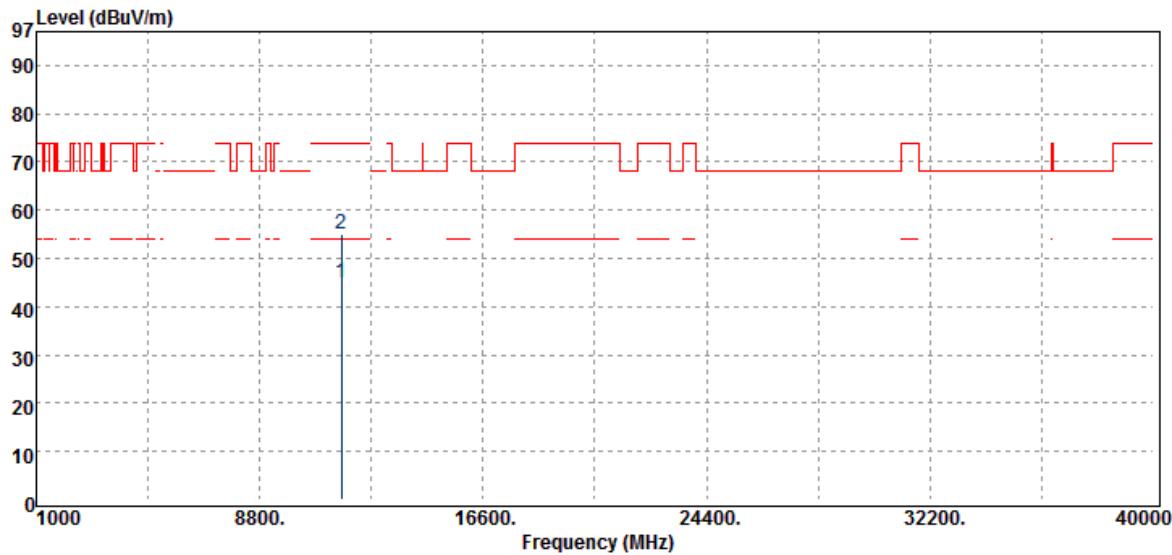
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Operation Band :802.11n20B4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
11650.00	Average	23.47	21.60	45.07	54.00	-8.93
11650.00	Peak	33.36	21.60	54.96	74.00	-19.04

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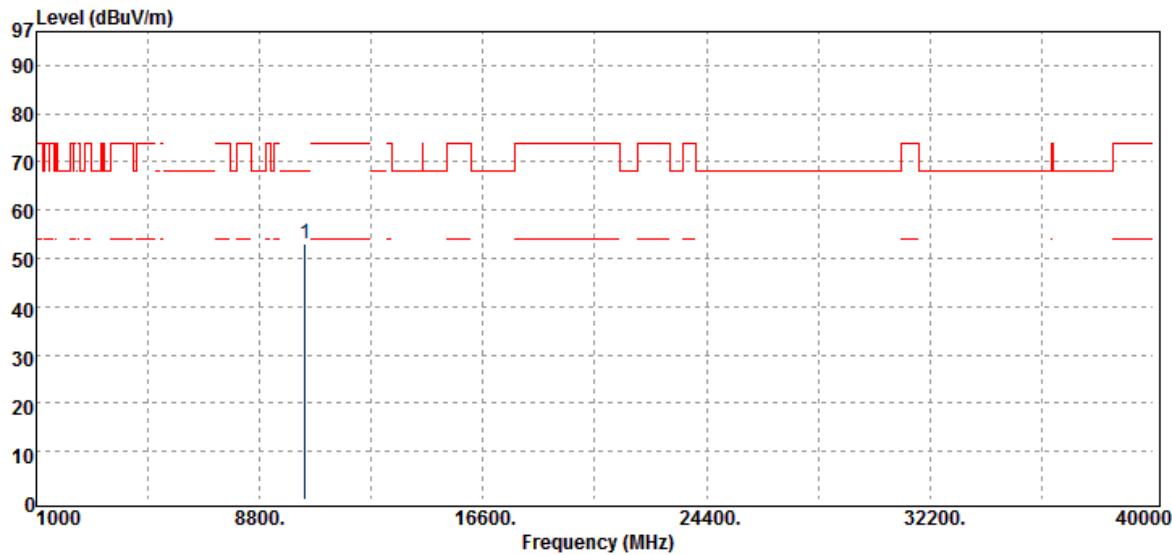
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz**

Operation Band	:802.11n40B1	Test Date	:2018-10-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	: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	33.29	19.78	53.07	68.20	-15.13

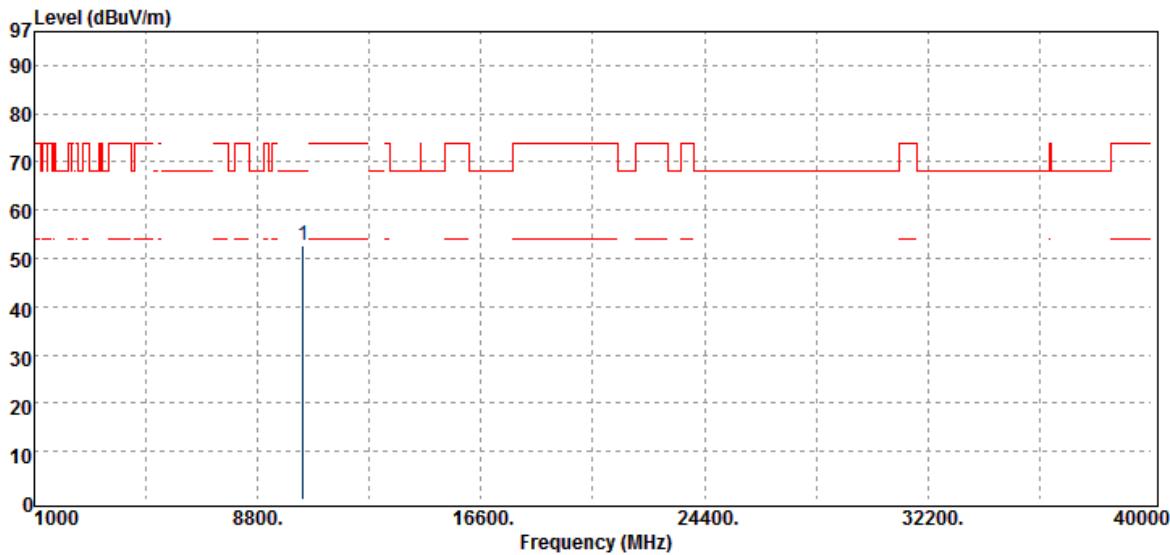
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Operation Band	:802.11n40B1	Test Date	:2018-10-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	33.05	19.78	52.83	68.20	-15.37

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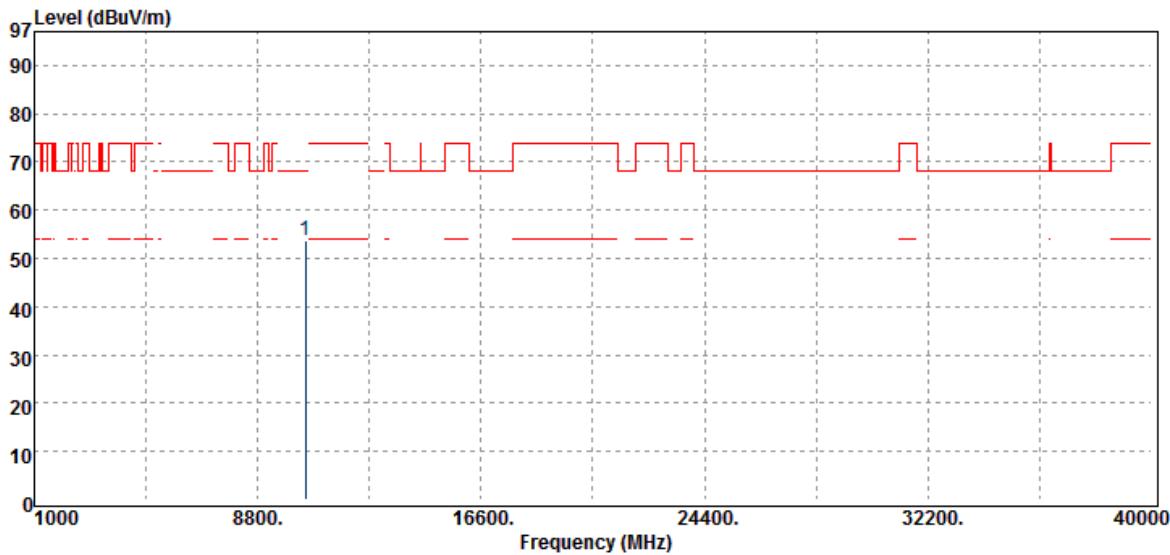
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Operation Band	:802.11n40B1	Test Date	:2018-10-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	33.61	20.07	53.68	68.20	-14.52

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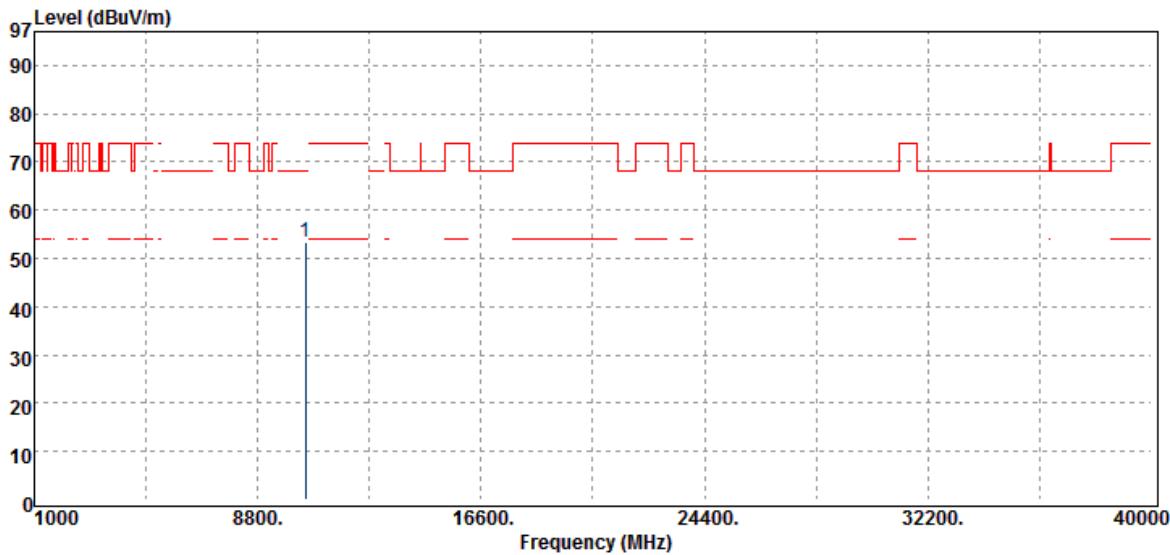
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Operation Band	:802.11n40B1	Test Date	:2018-10-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	33.16	20.07	53.23	68.20	-14.97

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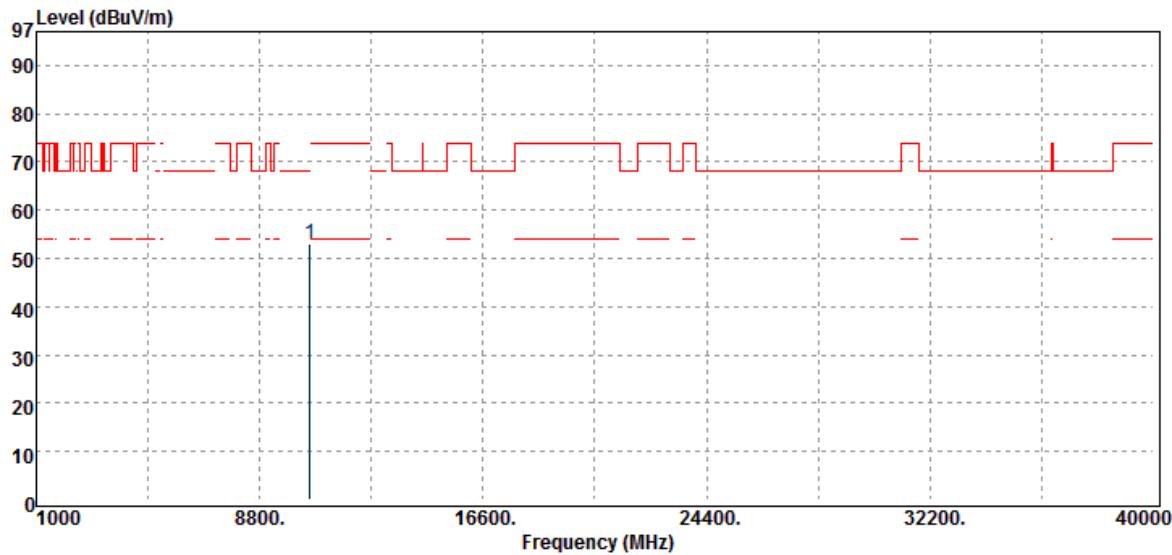
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**

Operation Band	:802.11n40B2	Test Date	:2018-10-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	33.12	20.02	53.14	68.20	-15.06

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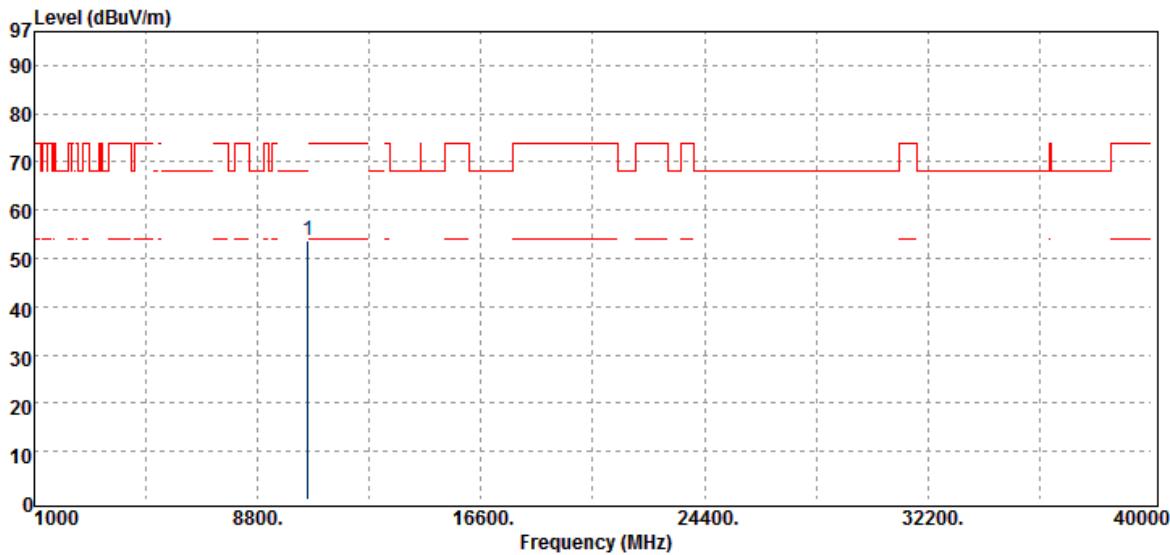
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Operation Band	:802.11n40B2	Test Date	:2018-10-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	33.57	20.02	53.59	68.20	-14.61

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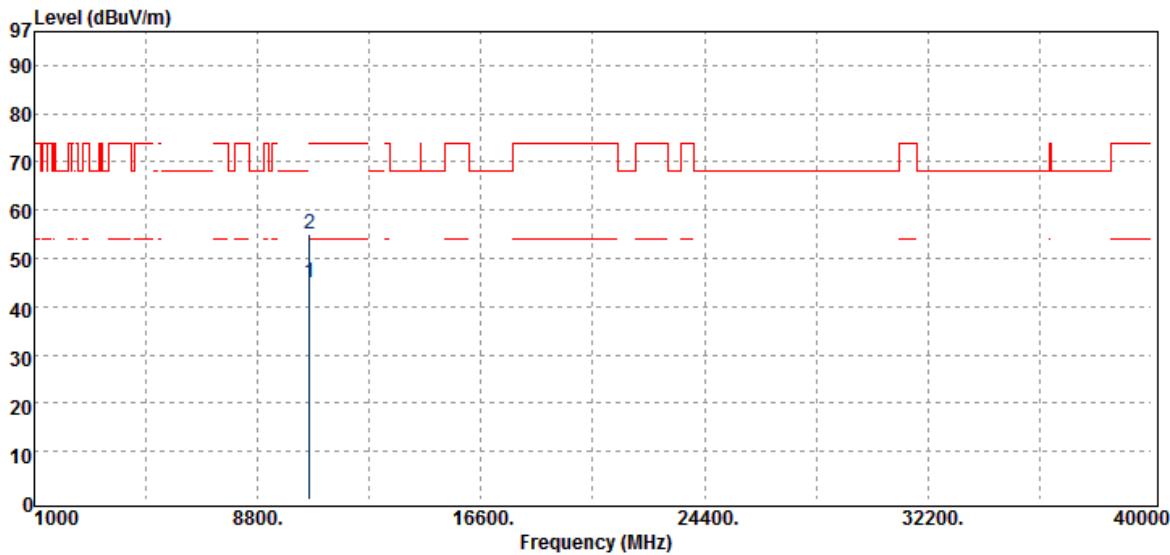
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Operation Band	:802.11n40B2	Test Date	:2018-10-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	24.65	20.41	45.06	54.00	-8.94
10620.00	Peak	34.47	20.41	54.88	74.00	-19.12

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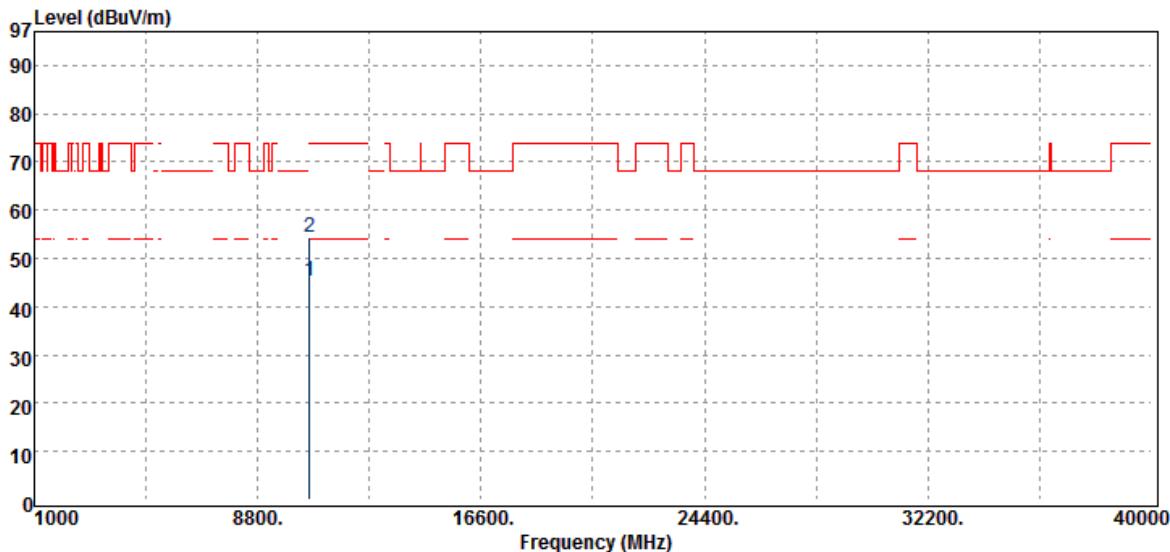
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Operation Band	:802.11n40B2	Test Date	:2018-10-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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
10620.00	Average	24.77	20.41	45.18	54.00	-8.82
10620.00	Peak	34.02	20.41	54.43	74.00	-19.57

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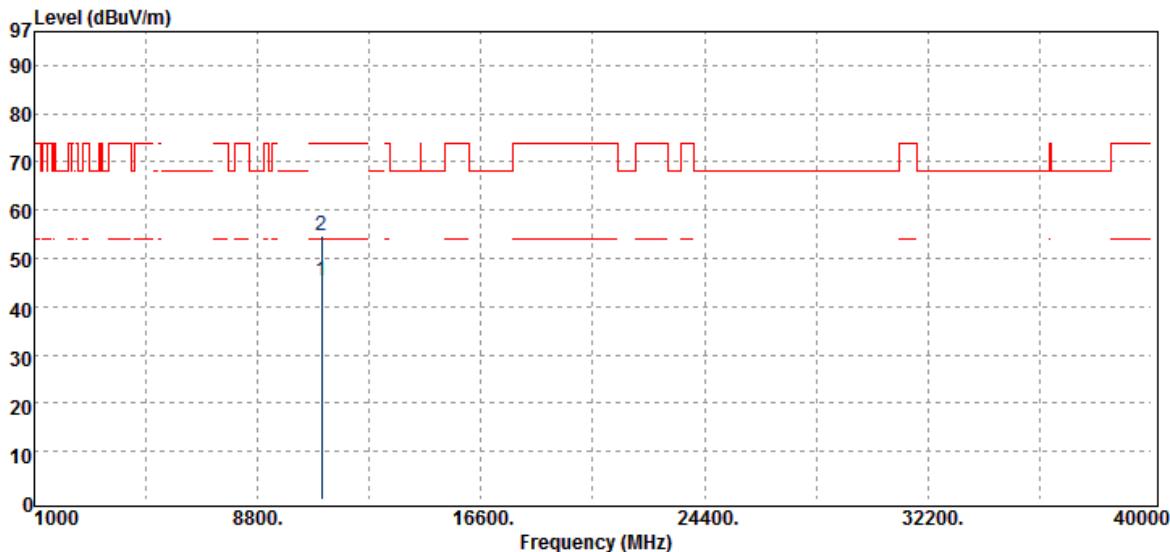
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz**

Operation Band	:802.11n40B3	Test Date	:2018-10-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	23.71	21.46	45.17	54.00	-8.83
11020.00	Peak	33.40	21.46	54.86	74.00	-19.14

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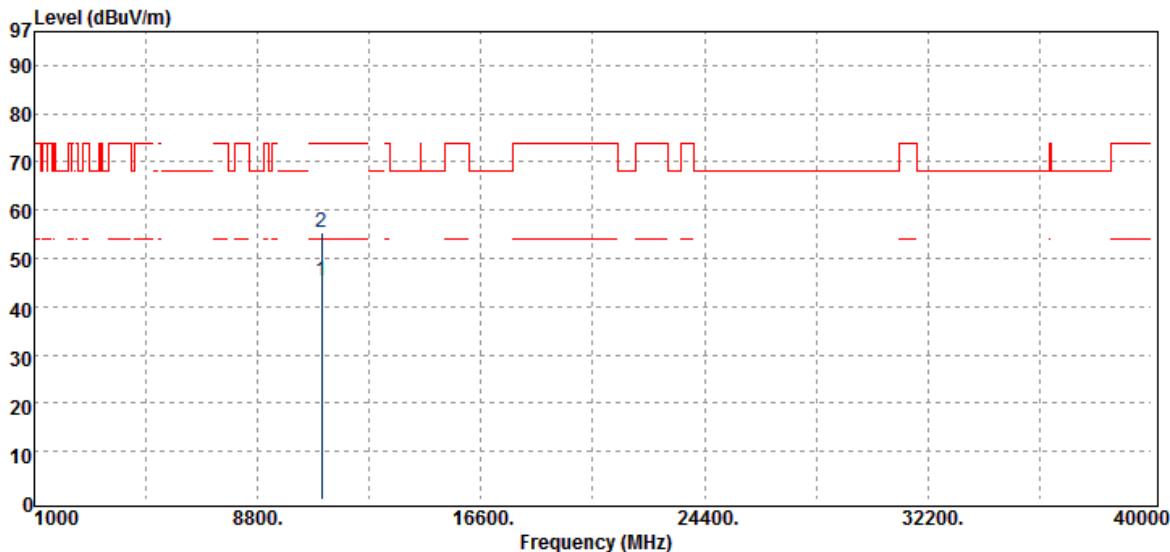
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Operation Band	:802.11n40B3	Test Date	:2018-10-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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	23.80	21.46	45.26	54.00	-8.74
11020.00	Peak	33.78	21.46	55.24	74.00	-18.76

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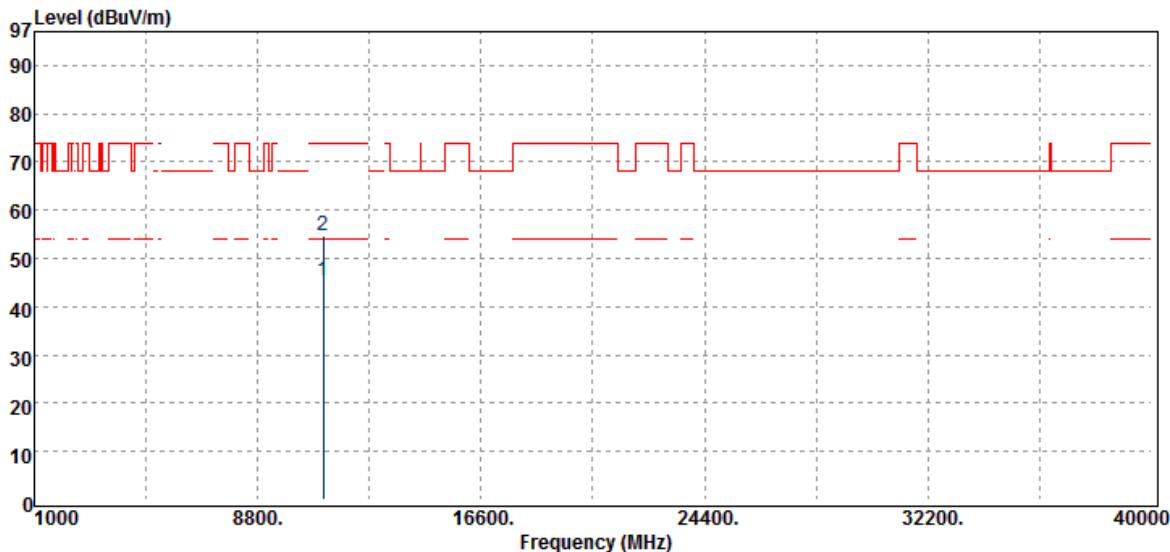
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Operation Band	:802.11n40B3	Test Date	:2018-10-03
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



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	23.67	21.53	45.20	54.00	-8.80
11100.00	Peak	33.20	21.53	54.73	74.00	-19.27

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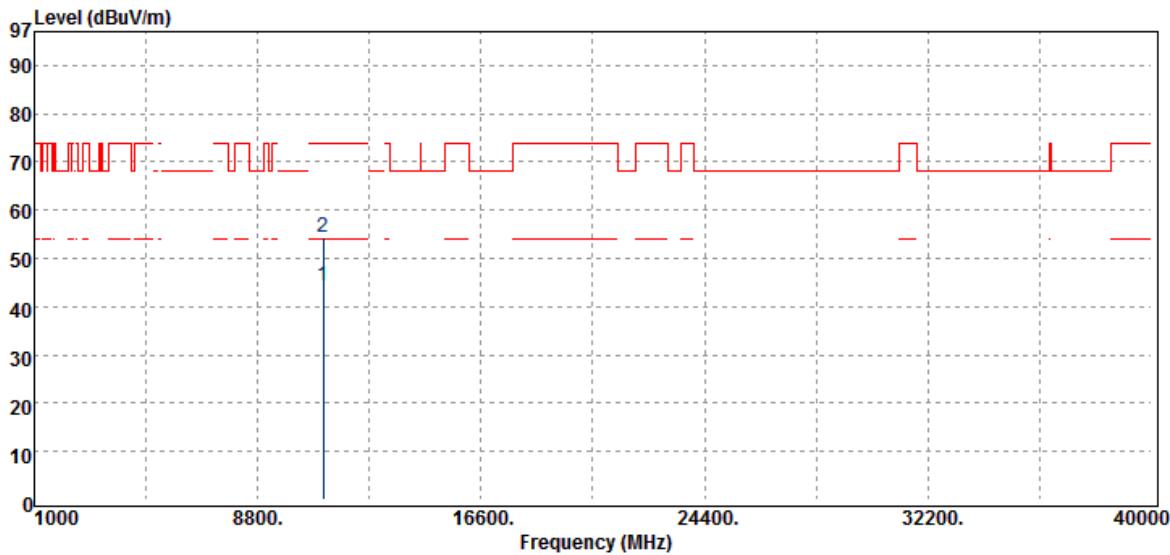
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Operation Band :802.11n40B3  
Fundamental Frequency :5550 MHz  
Operation Mode :Tx CH MID  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	22.63	21.53	44.16	54.00	-9.84
11100.00	Peak	32.76	21.53	54.29	74.00	-19.71

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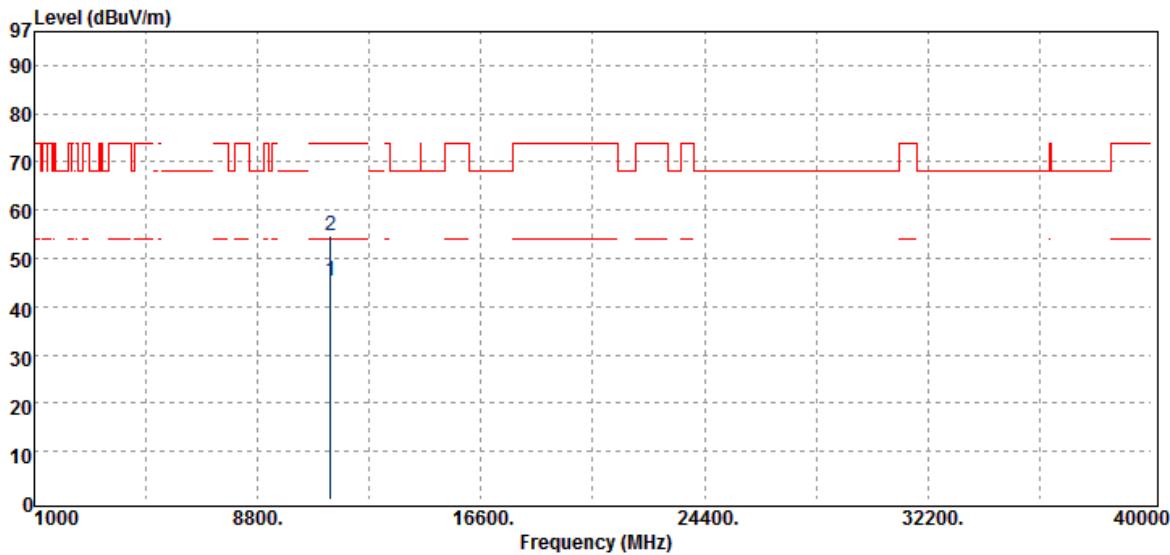
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	23.93	21.54	45.47	54.00	-8.53
11340.00	Peak	33.04	21.54	54.58	74.00	-19.42

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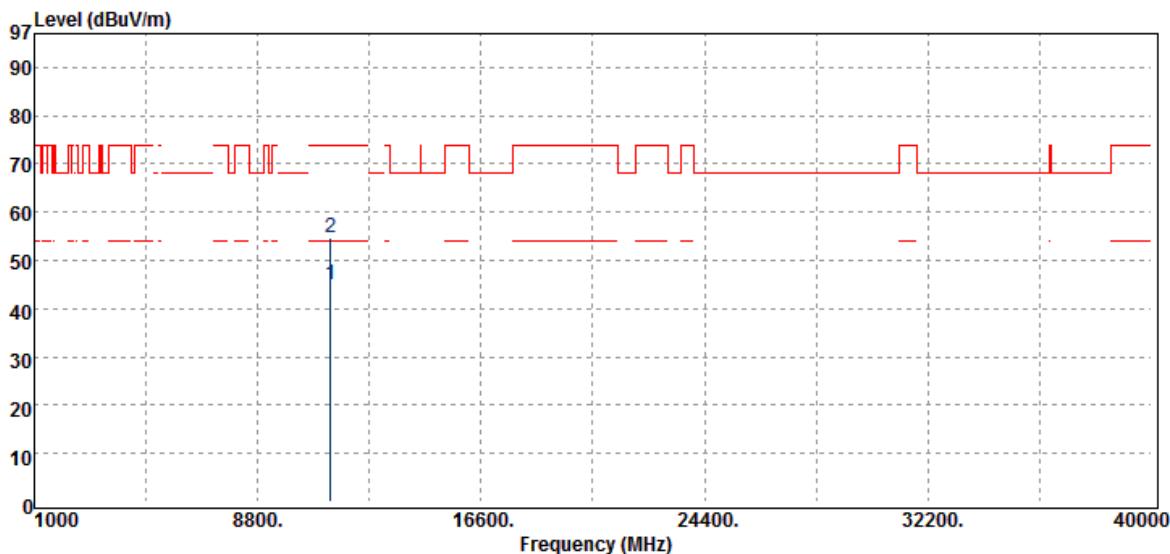
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Operation Band :802.11n40B3  
 Fundamental Frequency :5670 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	23.53	21.54	45.07	54.00	-8.93
11340.00	Peak	33.04	21.54	54.58	74.00	-19.42

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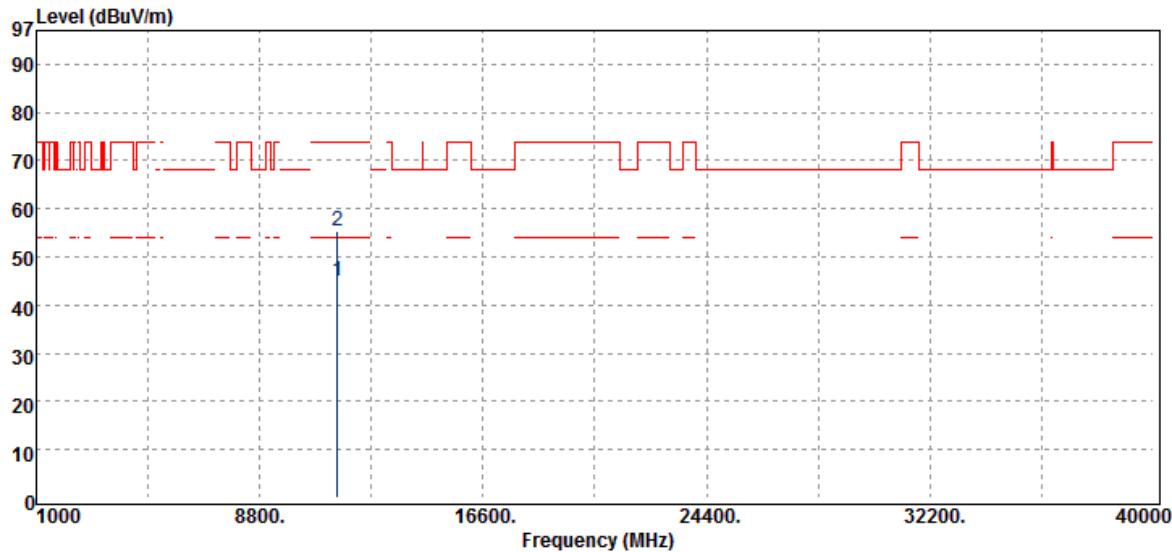
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz**

Operation Band	:802.11n40B4	Test Date	:2018-10-03
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	: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
11510.00	Average	23.32	21.66	44.98	54.00	-9.02
11510.00	Peak	33.63	21.66	55.29	74.00	-18.71

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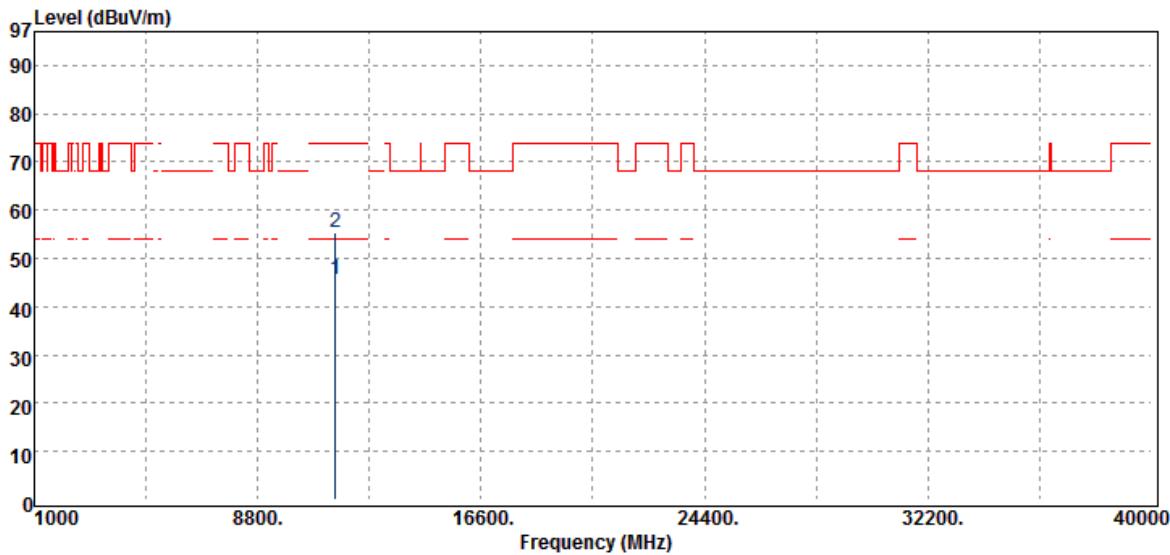
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Operation Band	:802.11n40B4	Test Date	:2018-10-03
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. 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
11510.00	Average	23.85	21.66	45.51	54.00	-8.49
11510.00	Peak	33.79	21.66	55.45	74.00	-18.55

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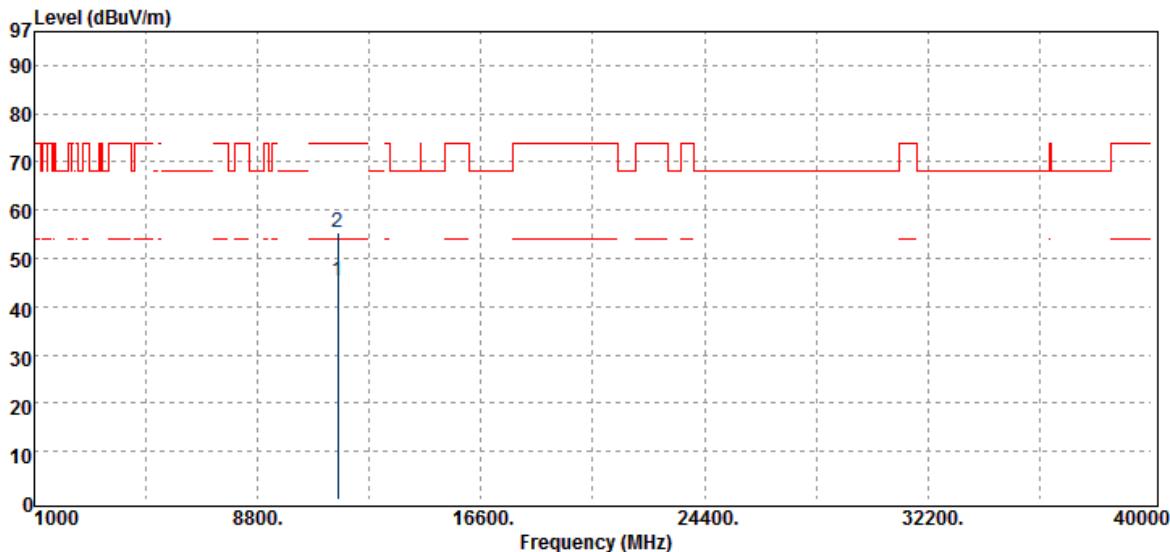
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Operation Band :802.11n40B4  
 Fundamental Frequency :5795 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
11590.00	Average	23.82	21.66	45.48	54.00	-8.52
11590.00	Peak	33.71	21.66	55.37	74.00	-18.63

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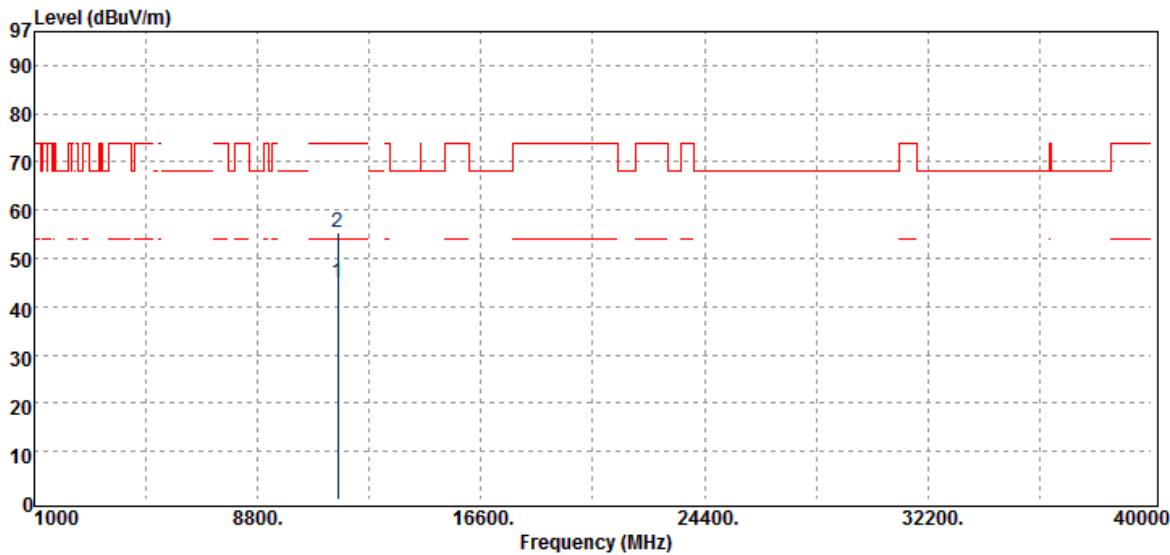
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Operation Band	:802.11n40B4	Test Date	:2018-10-03
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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
11590.00	Average	23.17	21.66	44.83	54.00	-9.17
11590.00	Peak	33.64	21.66	55.30	74.00	-18.70

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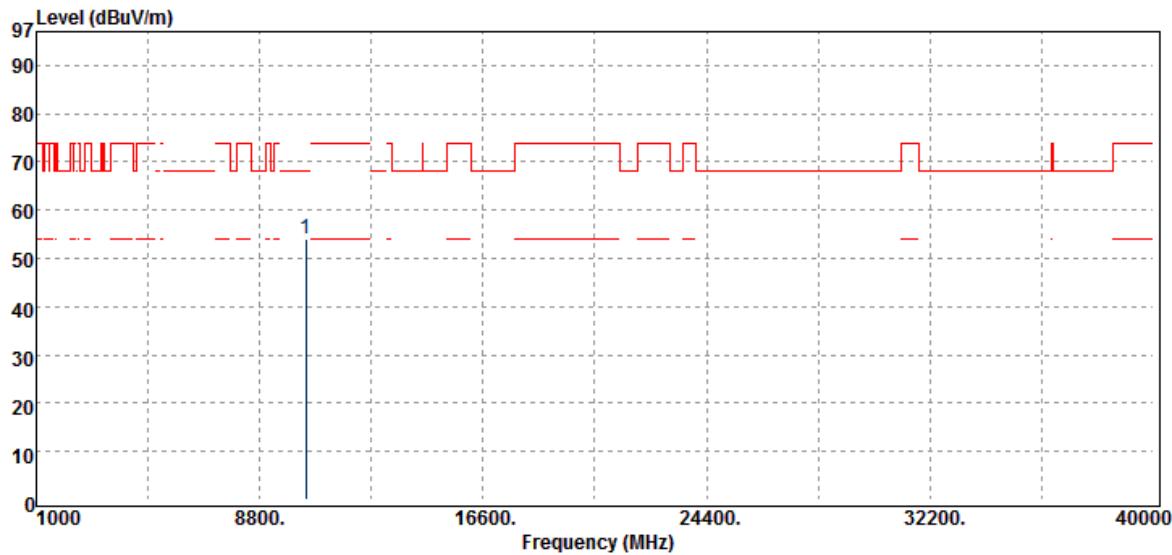
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz**

Operation Band	:802.11ac80B1	Test Date	:2018-10-03
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



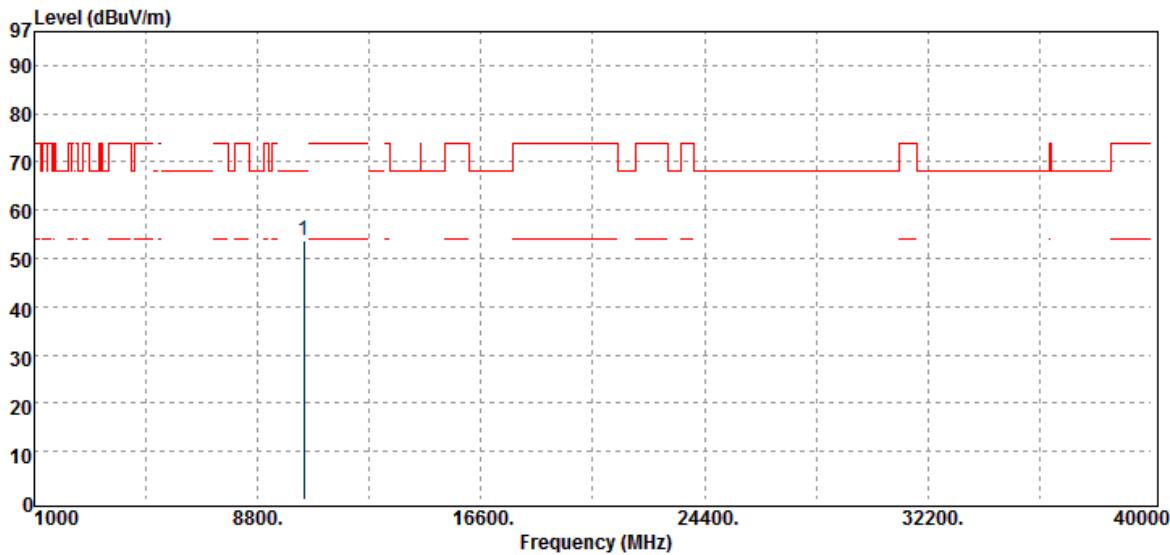
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	Peak	34.19	19.99	54.18	68.20	-14.02

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Operation Band	:802.11ac80B1	Test Date	:2018-10-03
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	: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	33.57	19.99	53.56	68.20	-14.64

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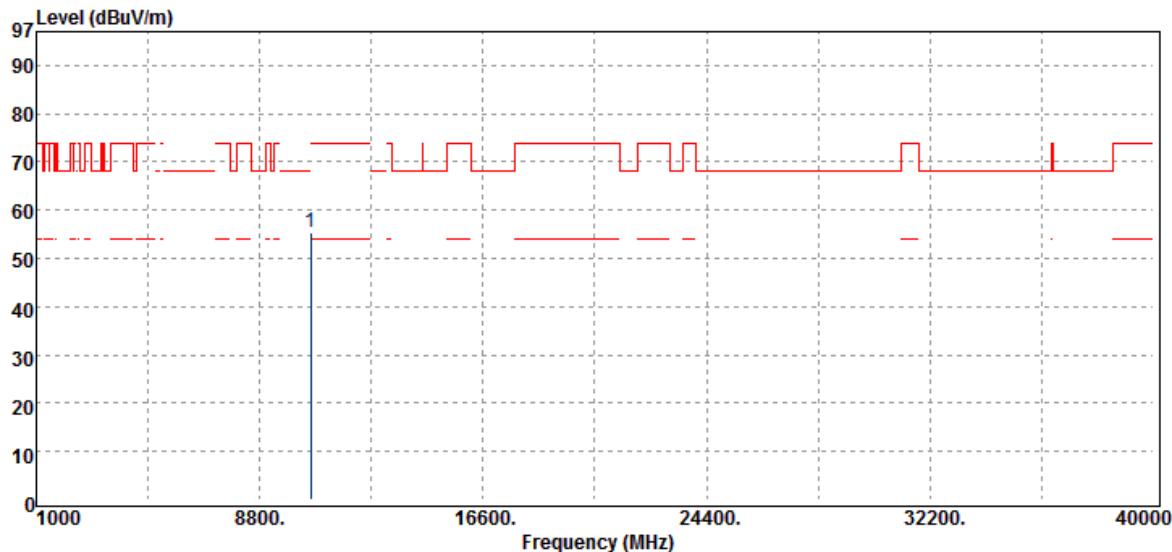
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz**

Operation Band	:802.11ac80B2	Test Date	:2018-10-03
Fundamental Frequency	:5290 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	35.18	20.23	55.41	68.20	-12.79

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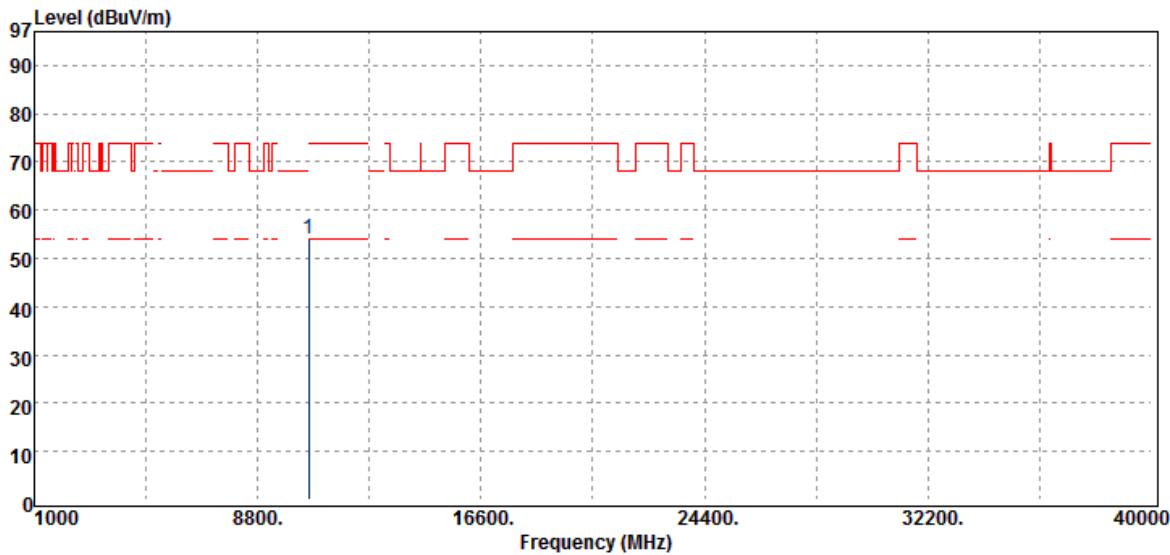
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Operation Band :802.11ac80B2  
Fundamental Frequency :5290 MHz  
Operation Mode :Tx CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	33.97	20.23	54.20	68.20	-14.00

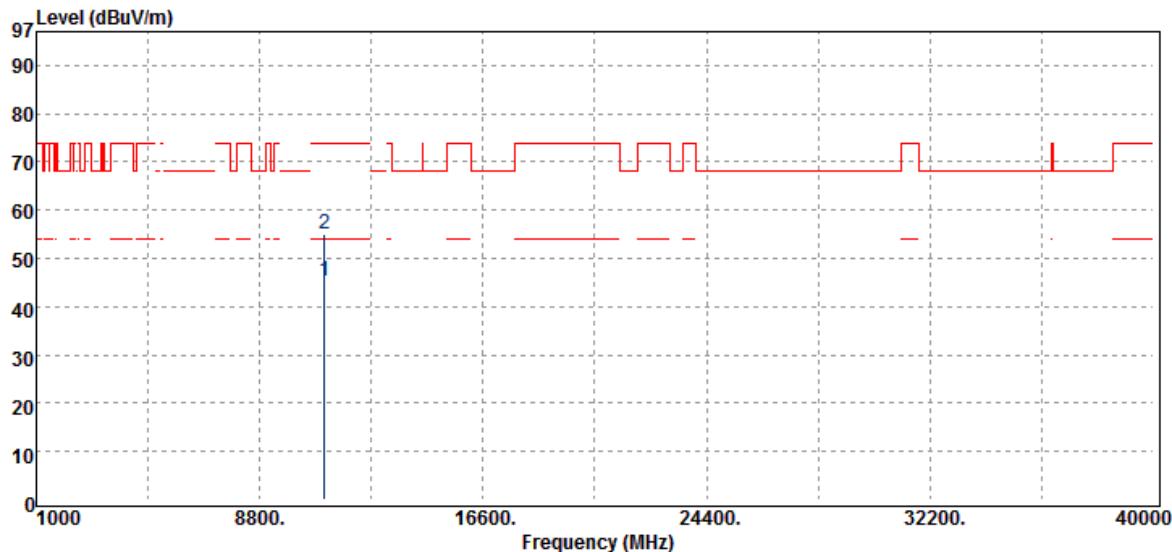
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz**

Operation Band	:802.11ac80B3	Test Date	:2018-10-03
Fundamental Frequency	:5530 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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	23.69	21.53	45.22	54.00	-8.78
11060.00	Peak	33.42	21.53	54.95	74.00	-19.05

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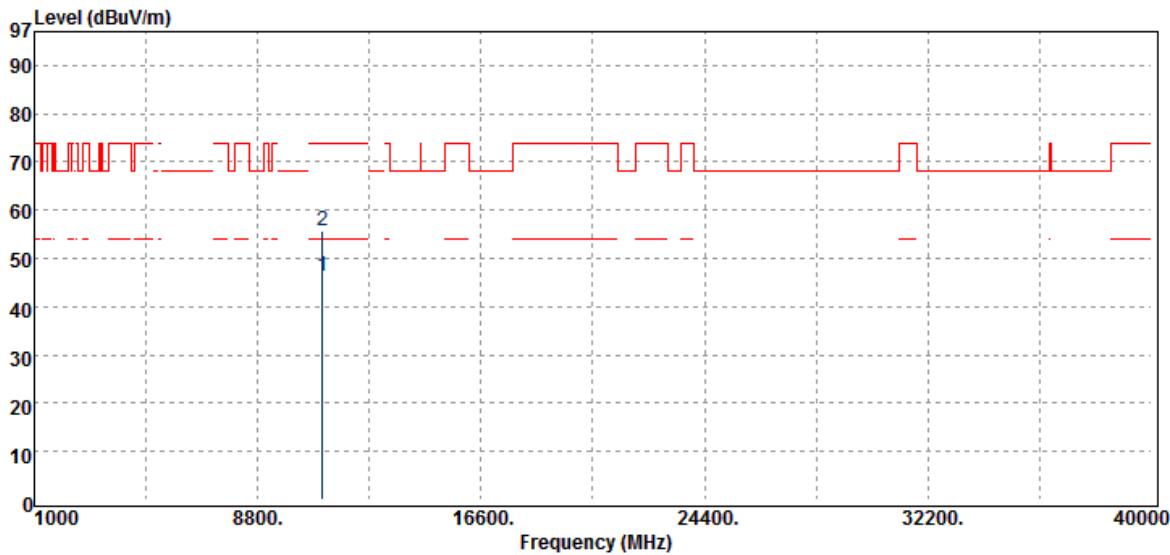
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Operation Band :802.11ac80B3  
Fundamental Frequency :5530 MHz  
Operation Mode :Tx CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-10-03  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	24.72	21.53	46.25	54.00	-7.75
11060.00	Peak	34.15	21.53	55.68	74.00	-18.32

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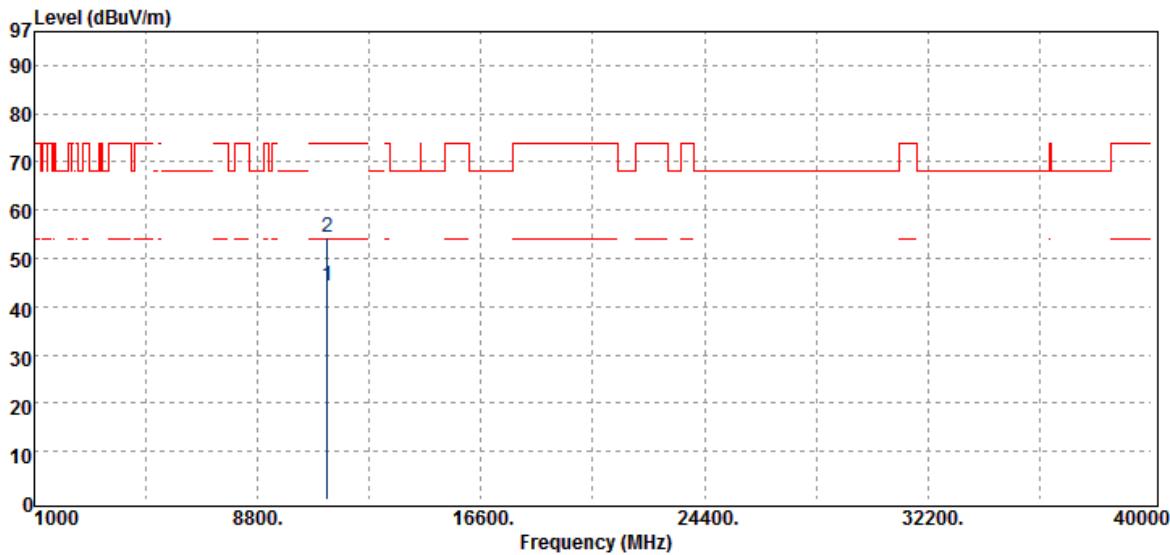
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5610 MHz  
 Operation Mode :Tx CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-10-03  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	22.61	21.56	44.17	54.00	-9.83
11220.00	Peak	32.97	21.56	54.53	74.00	-19.47

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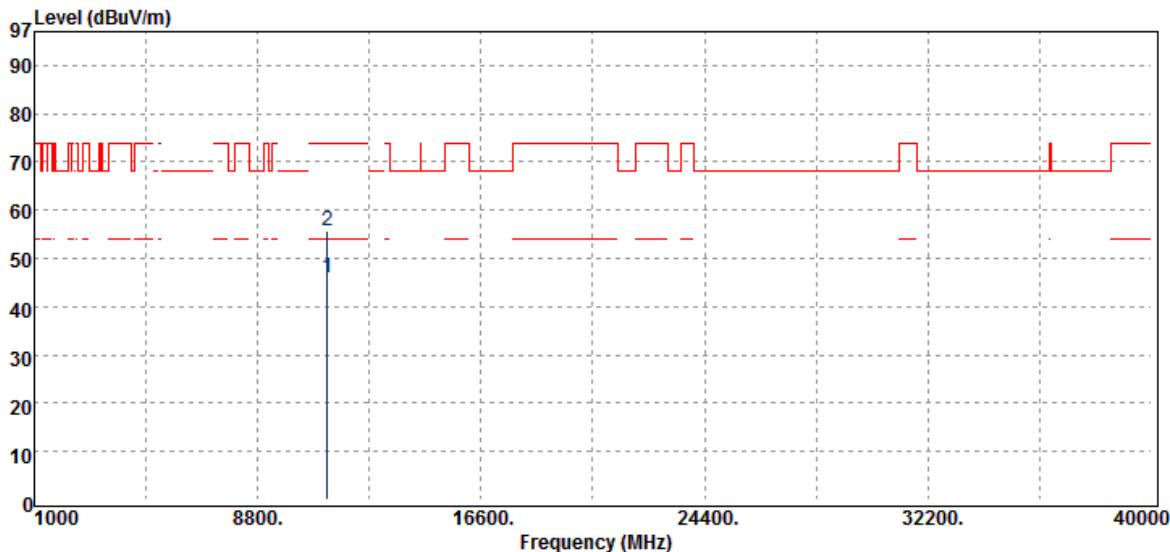
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Operation Band	:802.11ac80B3	Test Date	:2018-10-03
Fundamental Frequency	:5610 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



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
11220.00	Average	24.37	21.56	45.93	54.00	-8.07
11220.00	Peak	34.03	21.56	55.59	74.00	-18.41

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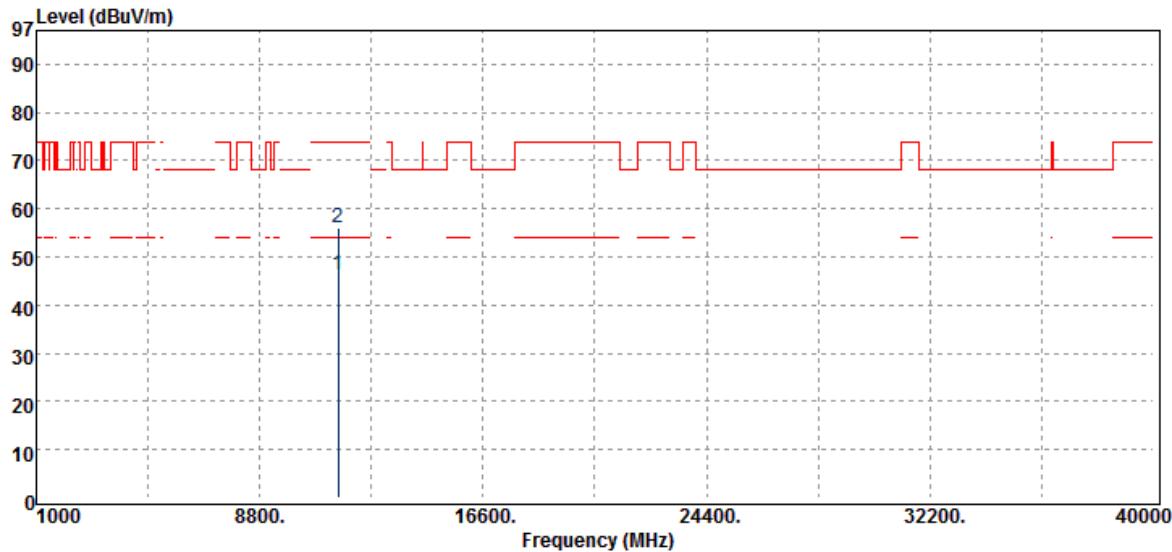
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz**

Operation Band	:802.11ac80B4	Test Date	:2018-10-03
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. 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
11550.00	Average	24.68	21.66	46.34	54.00	-7.66
11550.00	Peak	34.47	21.66	56.13	74.00	-17.87

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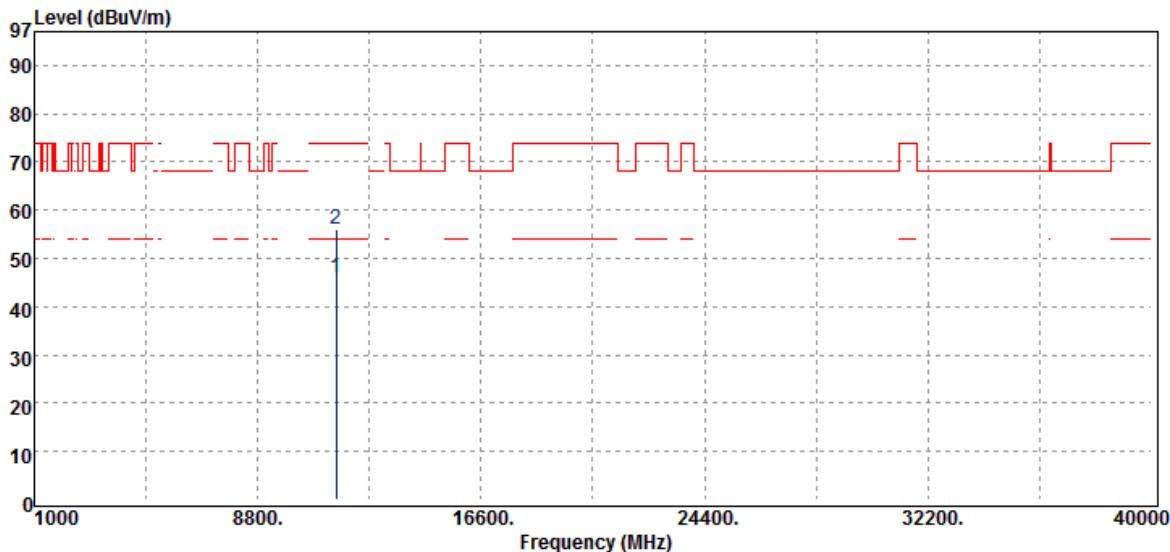
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Operation Band	:802.11ac80B4	Test Date	:2018-10-03
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Wei
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. 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
11550.00	Average	24.16	21.66	45.82	54.00	-8.18
11550.00	Peak	34.32	21.66	55.98	74.00	-18.02

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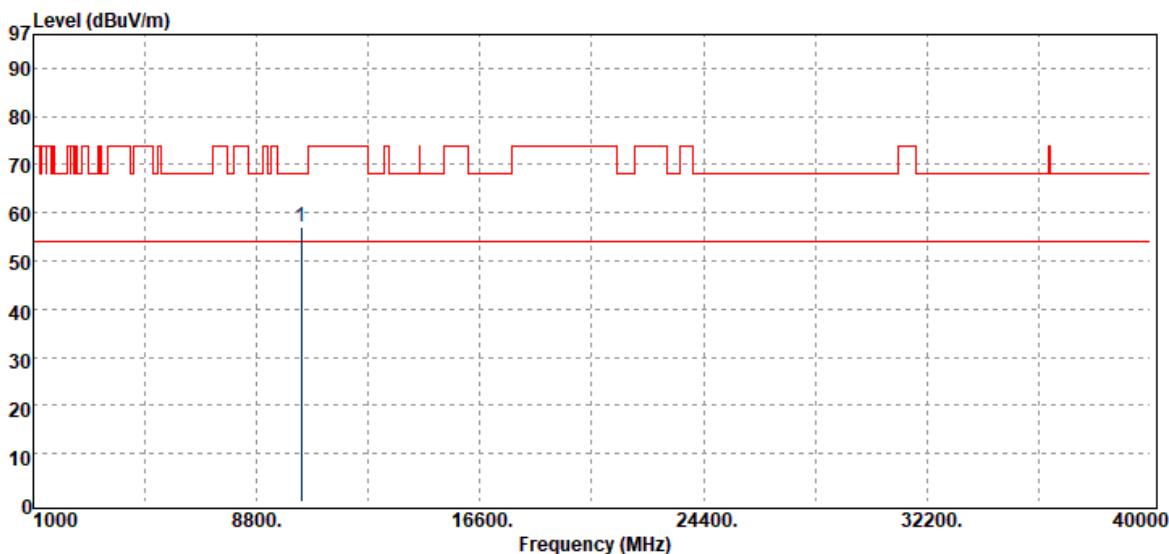
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**Spot Check Data**

Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11a	Temp./Humi.	:23.1/66
Test Channel	:CH36_5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



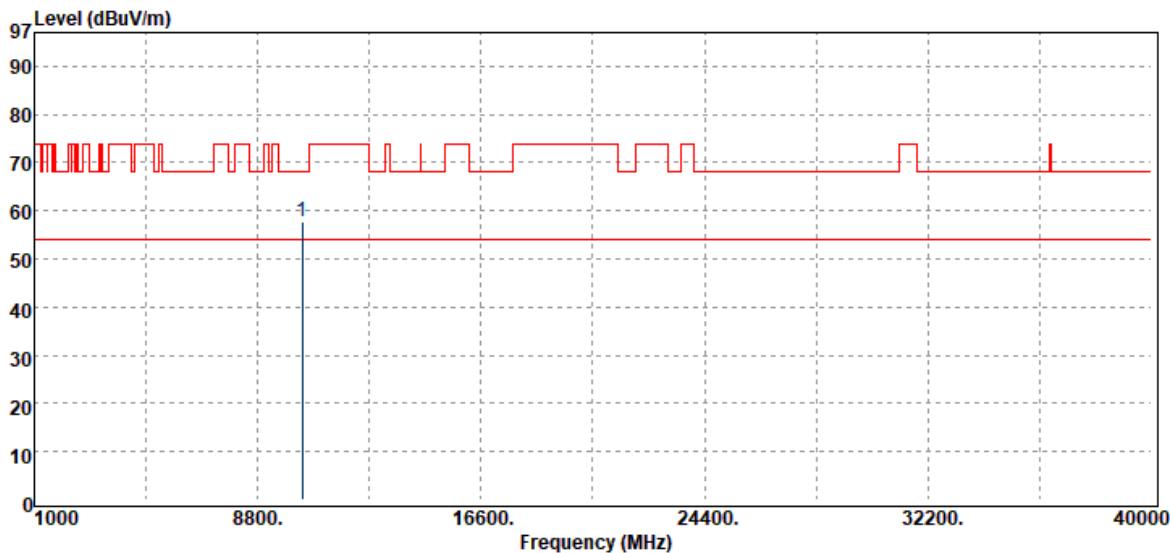
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	30.35	26.60	56.95	68.20	-11.25

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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11a	Temp./Humi.	:23.1/66
Test Channel	:CH36_5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	31.18	26.60	57.78	68.20	-10.42

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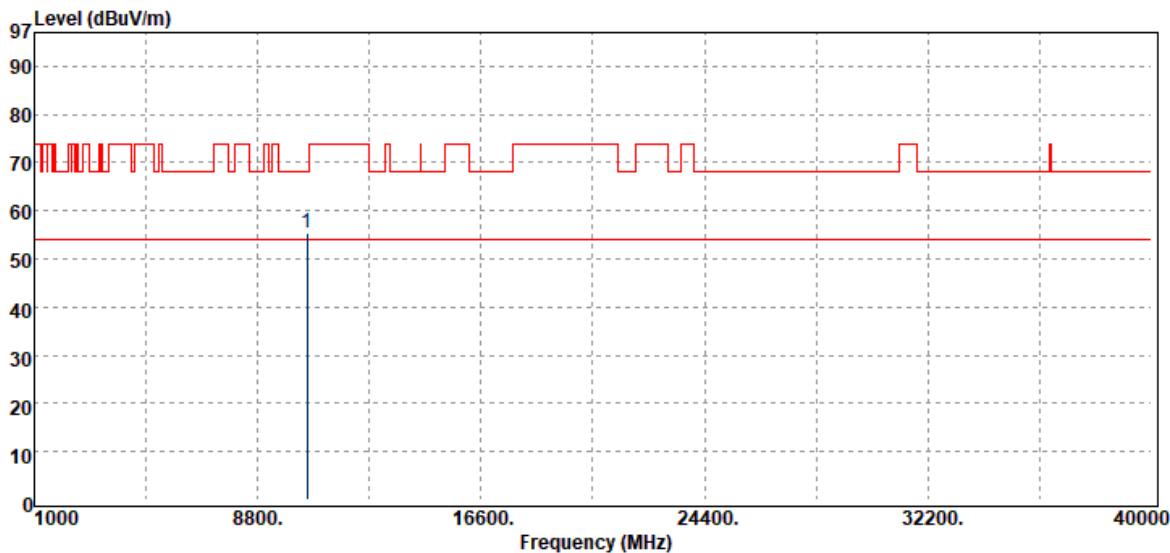
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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11a	Temp./Humi.	:23.1/66
Test Channel	:CH52_5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	29.69	25.66	55.35	68.20	-12.85

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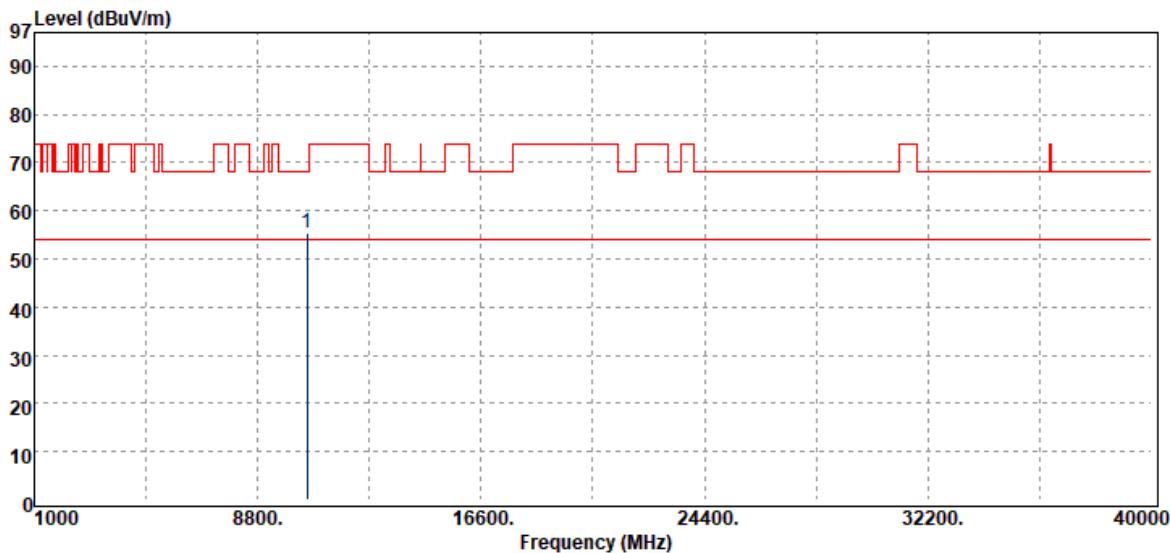
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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11a	Temp./Humi.	:23.1/66
Test Channel	:CH52_5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	29.57	25.66	55.23	68.20	-12.97

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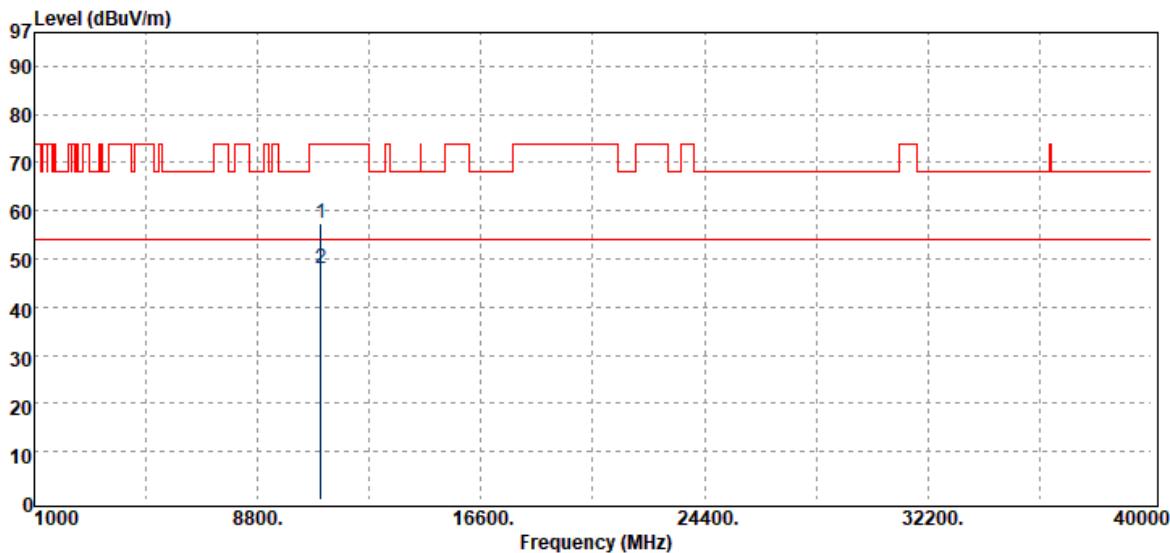
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Report Number :ER-2019-A0015 Test Date :2019-10-04  
 Operation Mode :802.11a Temp./Humi. :23.1/66  
 Test Channel :CH100\_5500 MHz Antenna Pol. :VERTICAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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	Peak	30.18	27.21	57.39	74.00	-16.61
11000.00	Average	20.66	27.21	47.87	54.00	-6.13

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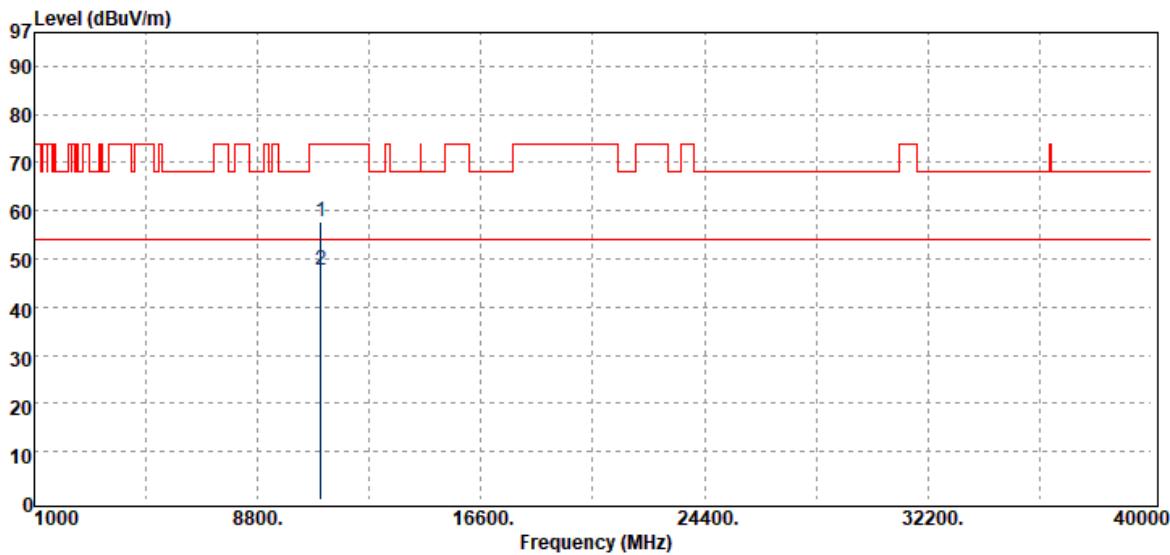
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Report Number :ER-2019-A0015 Test Date :2019-10-04  
 Operation Mode :802.11a Temp./Humi. :23.1/66  
 Test Channel :CH100\_5500 MHz Antenna Pol. :HORIZONTAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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	Peak	30.59	27.21	57.80	74.00	-16.20
11000.00	Average	20.32	27.21	47.53	54.00	-6.47

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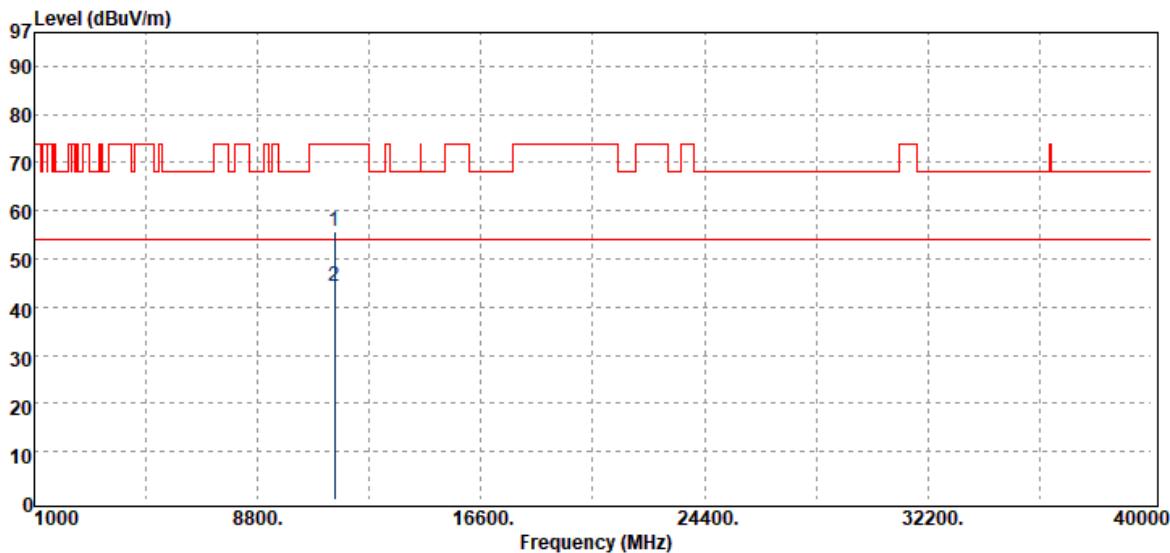
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Report Number :ER-2019-A0015 Test Date :2019-10-04  
 Operation Mode :802.11a Temp./Humi. :23.1/66  
 Test Channel :CH149\_5745 MHz Antenna Pol. :VERTICAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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
11490.00	Peak	29.40	26.25	55.65	74.00	-18.35
11490.00	Average	17.97	26.25	44.22	54.00	-9.78

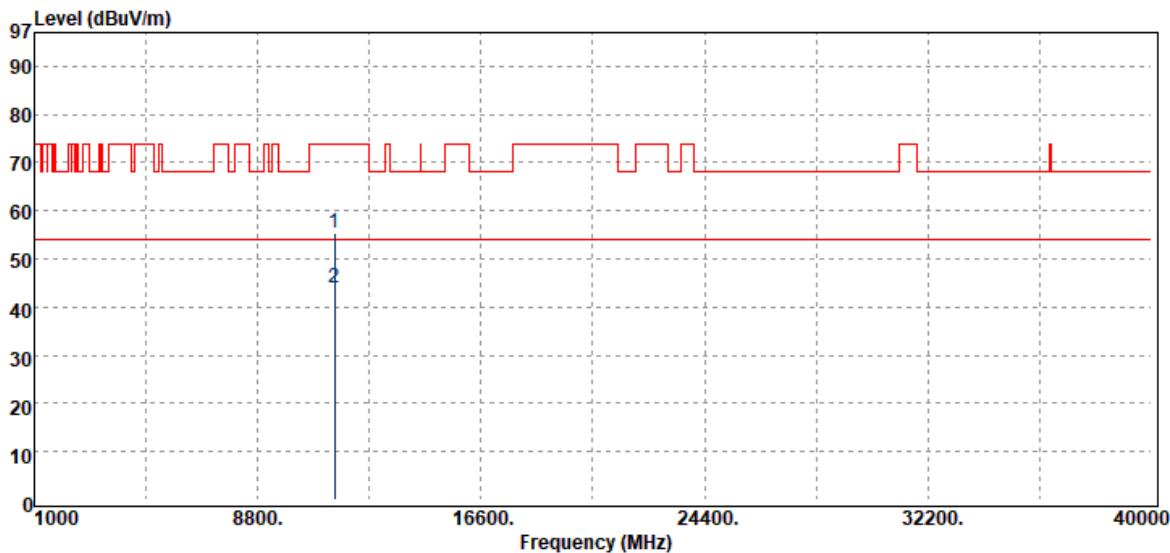
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Report Number :ER-2019-A0015  
 Operation Mode :802.11a  
 Test Channel :CH149\_5745 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Date :2019-10-04  
 Temp./Humi. :23.1/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Nick



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
11490.00	Peak	29.27	26.25	55.52	74.00	-18.48
11490.00	Average	17.78	26.25	44.03	54.00	-9.97

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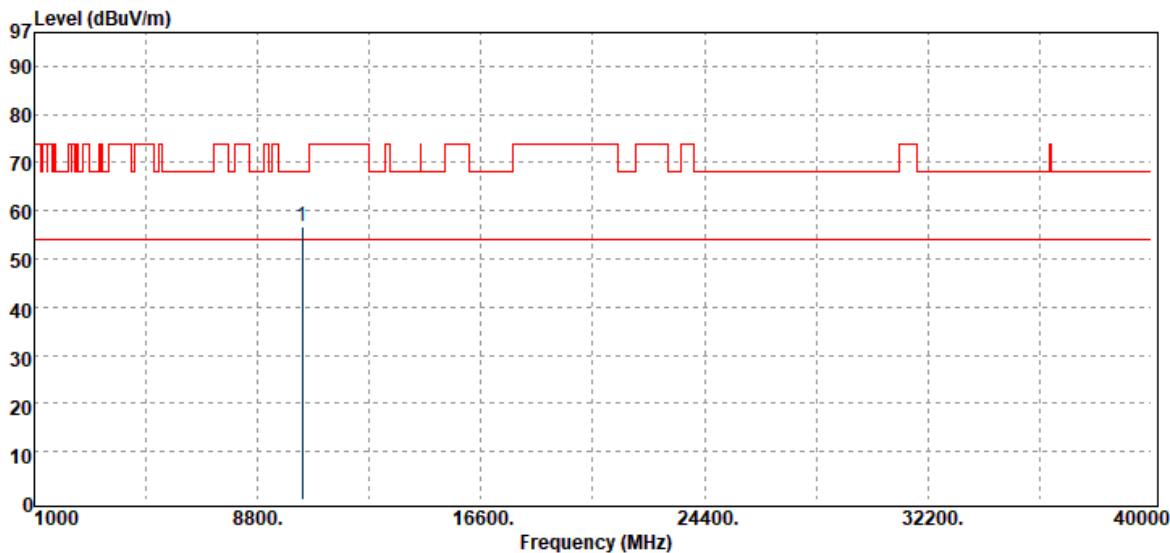
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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11n20	Temp./Humi.	:23.1/66
Test Channel	:CH36_5180 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



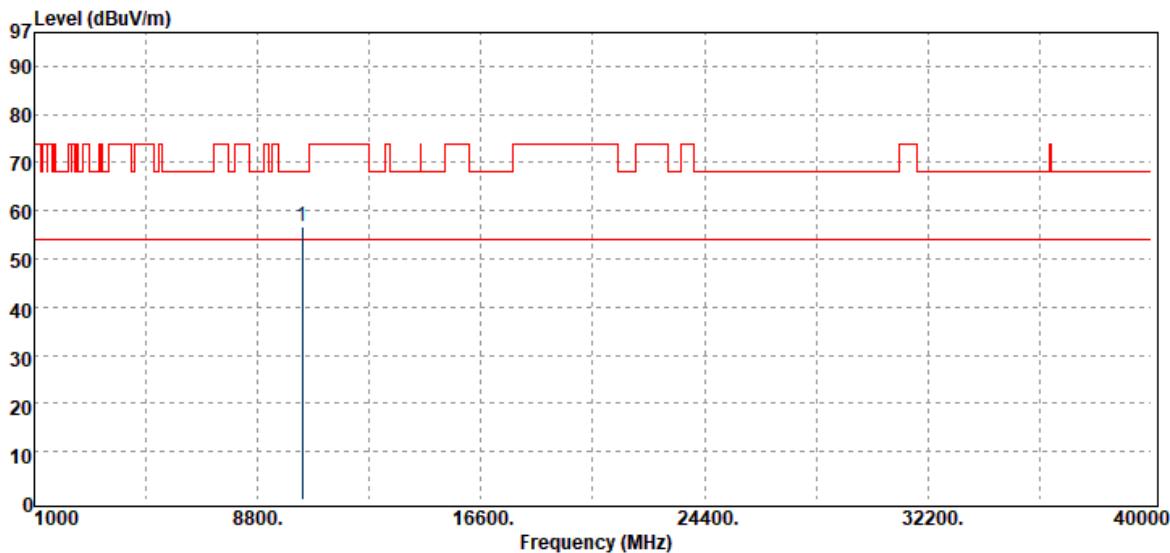
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	Peak	30.07	26.60	56.67	68.20	-11.53

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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11n20	Temp./Humi.	:23.1/66
Test Channel	:CH36_5180 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	29.98	26.60	56.58	68.20	-11.62

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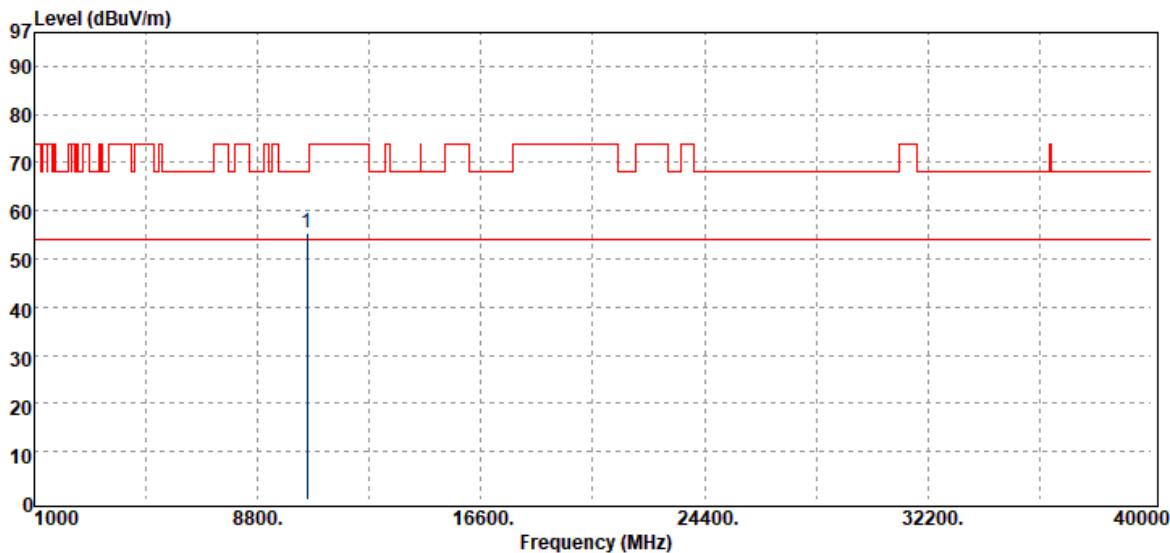
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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11n20	Temp./Humi.	:23.1/66
Test Channel	:CH52_5260 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	29.70	25.66	55.36	68.20	-12.84

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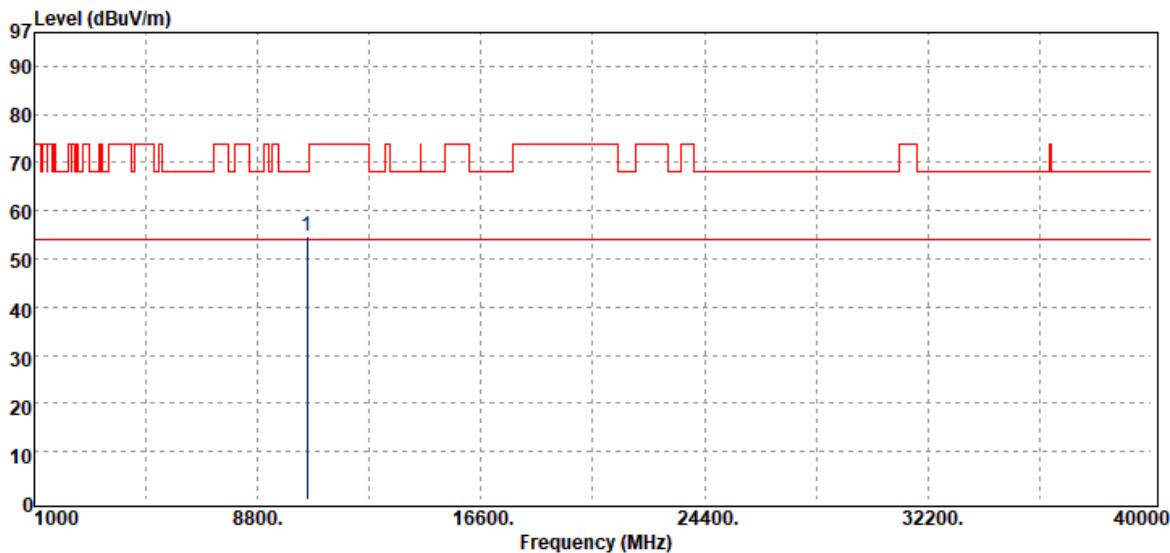
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Report Number	:ER-2019-A0015	Test Date	:2019-10-04
Operation Mode	:802.11n20	Temp./Humi.	:23.1/66
Test Channel	:CH52_5260 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	28.97	25.66	54.63	68.20	-13.57

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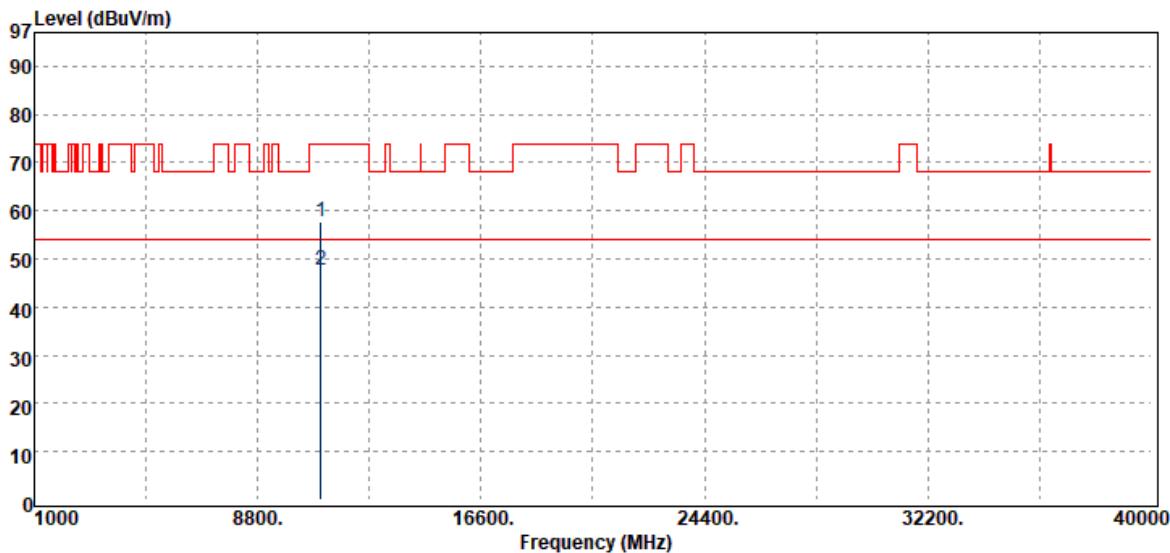
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
 Operation Mode :802.11n20 Temp./Humi. :23.1/66  
 Test Channel :CH100\_5500 MHz Antenna Pol. :VERTICAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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	Peak	30.50	27.21	57.71	74.00	-16.29
11000.00	Average	20.48	27.21	47.69	54.00	-6.31

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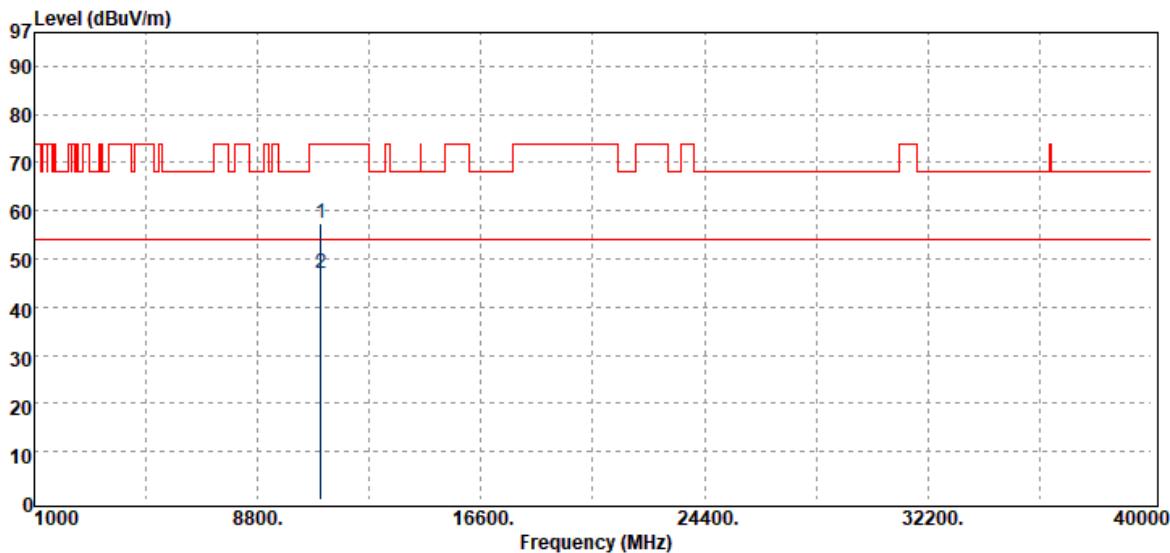
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Report Number :ER-2019-A0015  
 Operation Mode :802.11n20  
 Test Channel :CH100\_5500 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Date :2019-10-05  
 Temp./Humi. :23.1/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Nick



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	Peak	30.19	27.21	57.40	74.00	-16.60
11000.00	Average	19.62	27.21	46.83	54.00	-7.17

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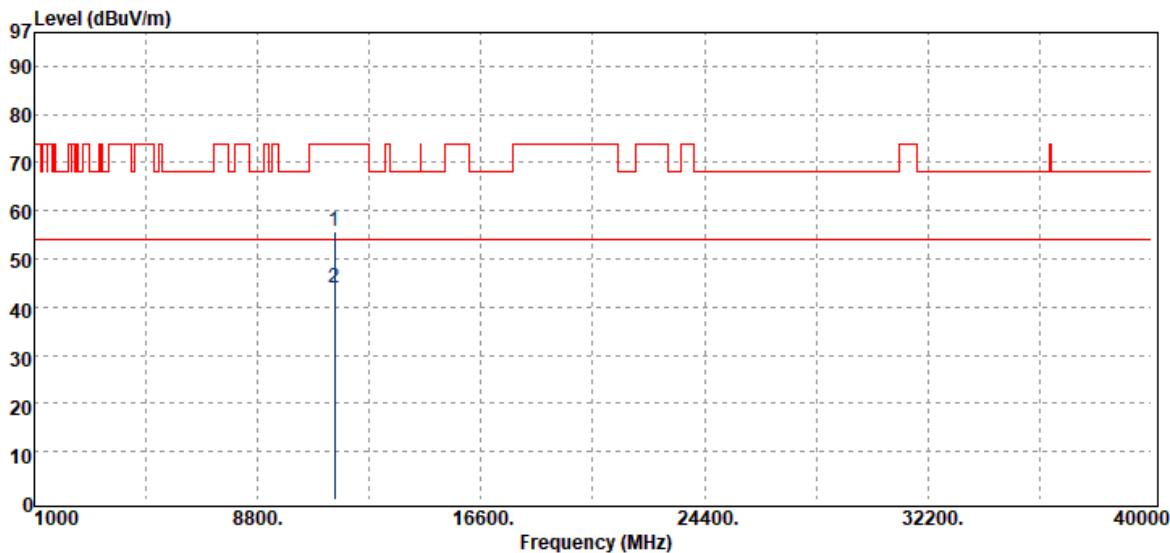
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
 Operation Mode :802.11n20 Temp./Humi. :23.1/66  
 Test Channel :CH149\_5745 MHz Antenna Pol. :VERTICAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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
11490.00	Peak	29.62	26.25	55.87	74.00	-18.13
11490.00	Average	17.84	26.25	44.09	54.00	-9.91

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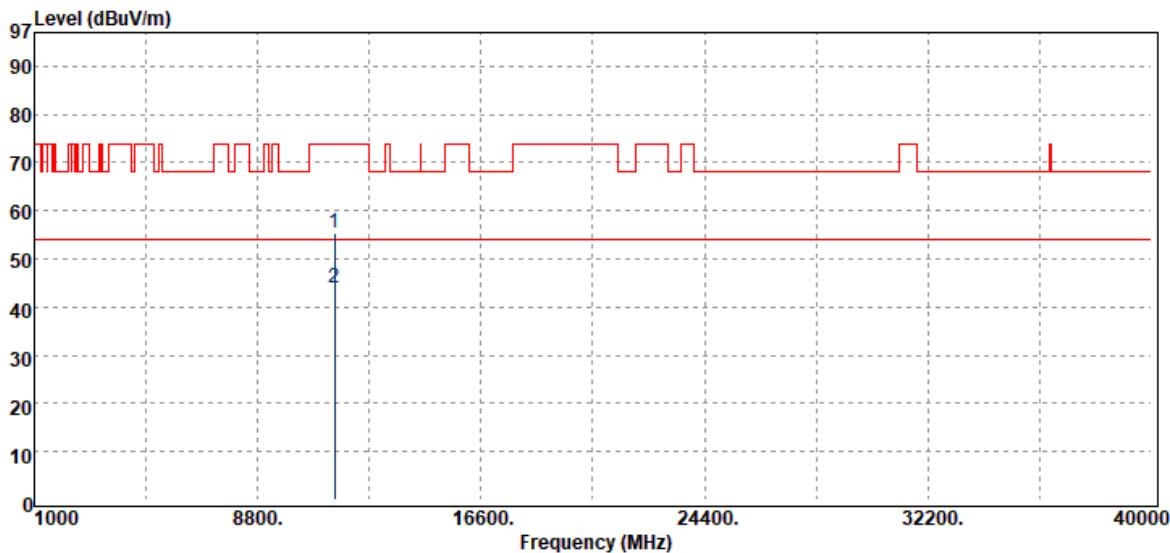
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Report Number :ER-2019-A0015  
Operation Mode :802.11n20  
Test Channel :CH149\_5745 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Date :2019-10-05  
Temp./Humi. :23.1/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



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
11490.00	Peak	29.25	26.25	55.50	74.00	-18.50
11490.00	Average	17.82	26.25	44.07	54.00	-9.93

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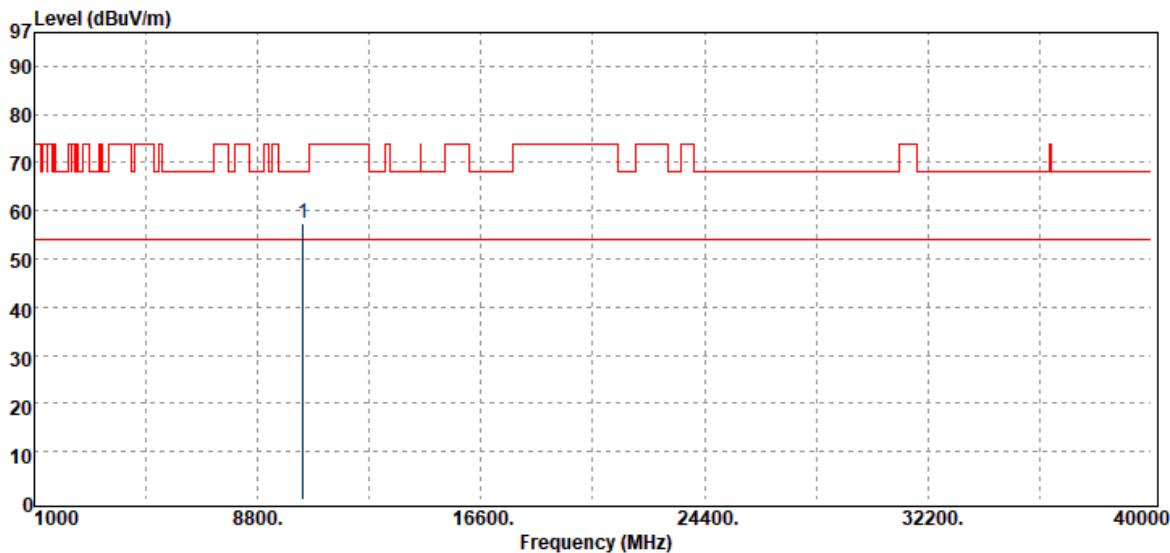
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
Operation Mode :802.11n40 Temp./Humi. :23.1/66  
Test Channel :CH38\_5190 MHz Antenna Pol. :VERTICAL  
Test Mode :Tx CH Low Engineer :Nick  
EUT Pol :H Plane



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	30.44	26.98	57.42	68.20	-10.78

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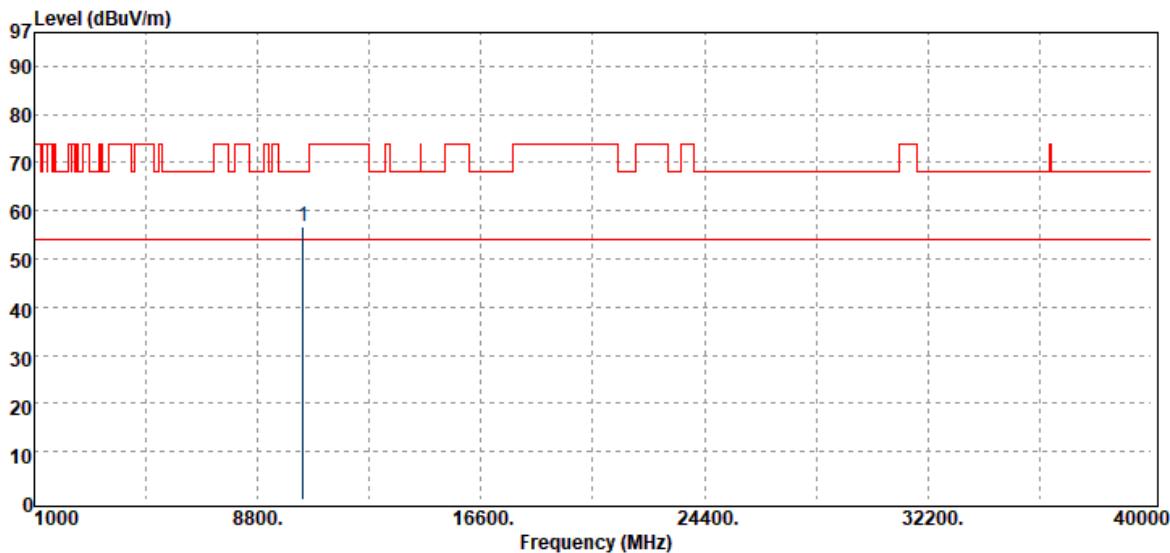
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
Operation Mode :802.11n40 Temp./Humi. :23.1/66  
Test Channel :CH38\_5190 MHz Antenna Pol. :HORIZONTAL  
Test Mode :Tx CH Low Engineer :Nick  
EUT Pol :H Plane



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	29.84	26.98	56.82	68.20	-11.38

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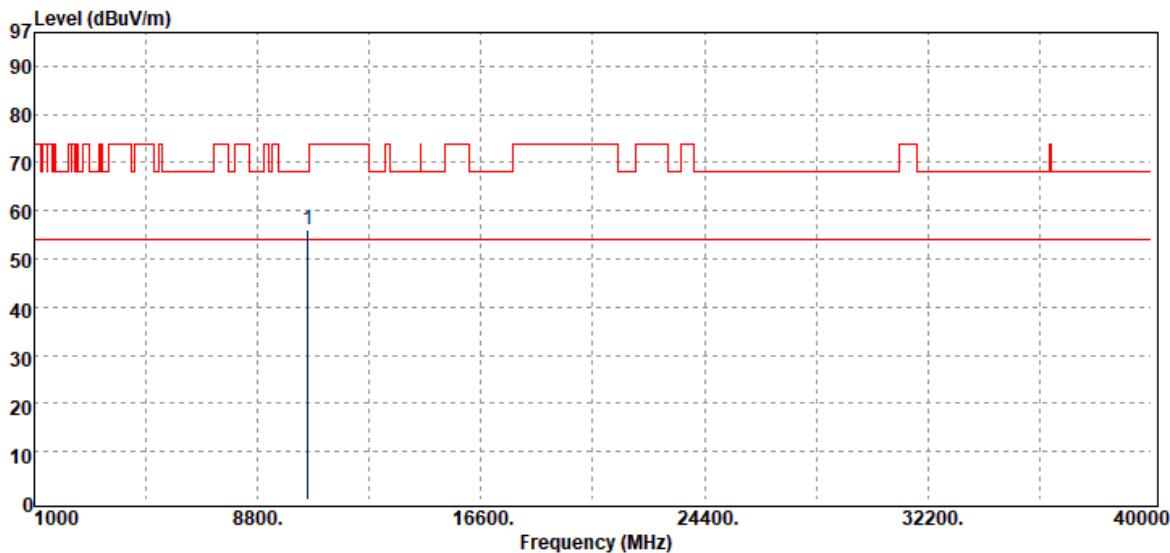
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Report Number	:ER-2019-A0015	Test Date	:2019-10-05
Operation Mode	:802.11n40	Temp./Humi.	:23.1/66
Test Channel	:CH54_5270 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	29.96	25.93	55.89	68.20	-12.31

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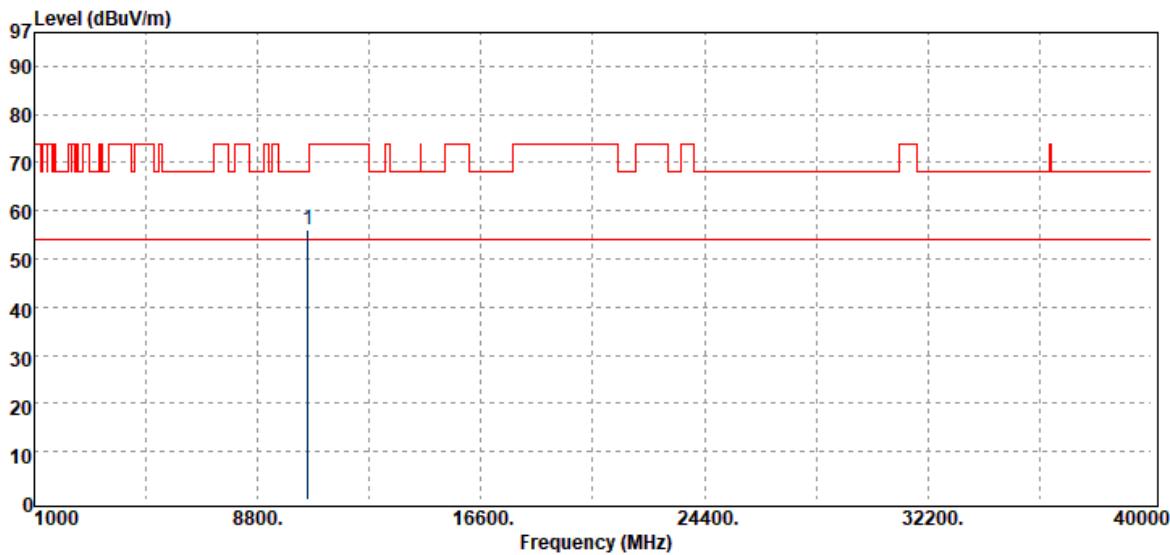
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Report Number	:ER-2019-A0015	Test Date	:2019-10-05
Operation Mode	:802.11n40	Temp./Humi.	:23.1/66
Test Channel	:CH54_5270 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	30.16	25.93	56.09	68.20	-12.11

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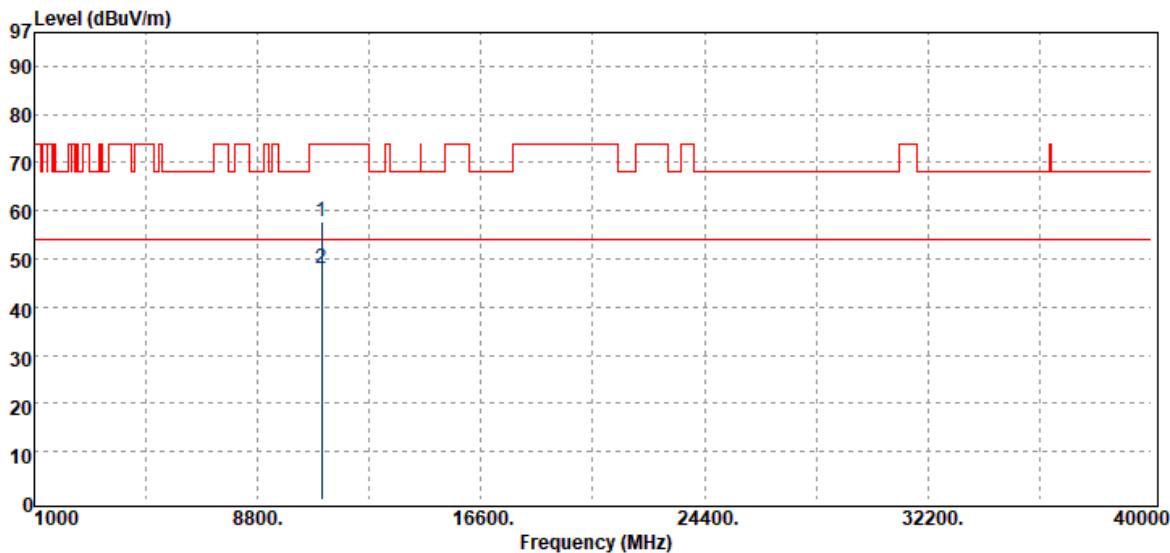
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
 Operation Mode :802.11n40 Temp./Humi. :23.1/66  
 Test Channel :CH102\_5510 MHz Antenna Pol. :VERTICAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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	Peak	30.11	27.62	57.73	74.00	-16.27
11020.00	Average	20.32	27.62	47.94	54.00	-6.06

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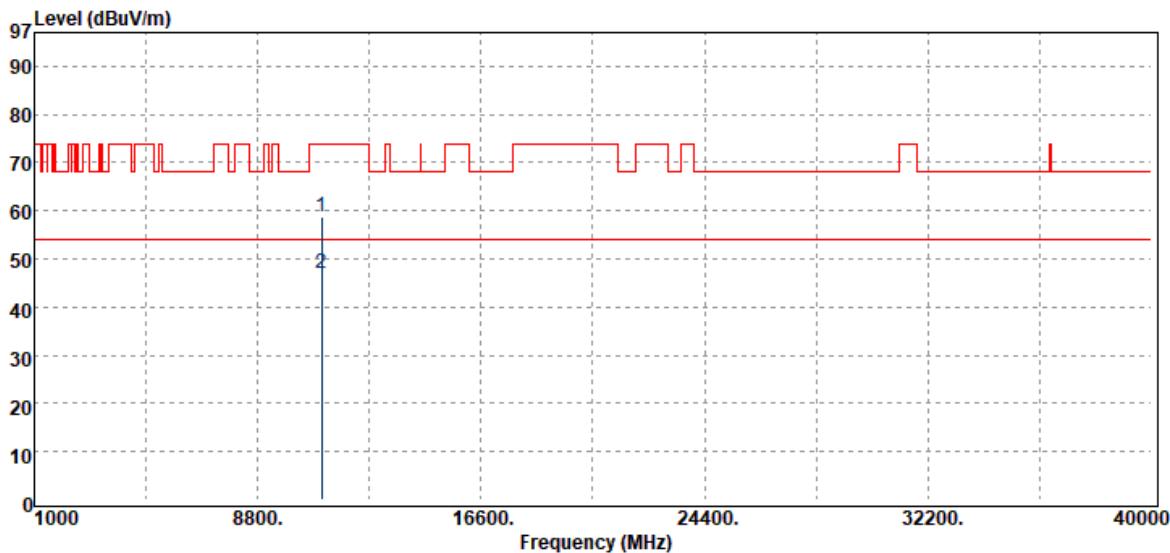
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Report Number :ER-2019-A0015  
 Operation Mode :802.11n40  
 Test Channel :CH102\_5510 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Date :2019-10-05  
 Temp./Humi. :23.1/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Nick



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	Peak	31.13	27.62	58.75	74.00	-15.25
11020.00	Average	19.51	27.62	47.13	54.00	-6.87

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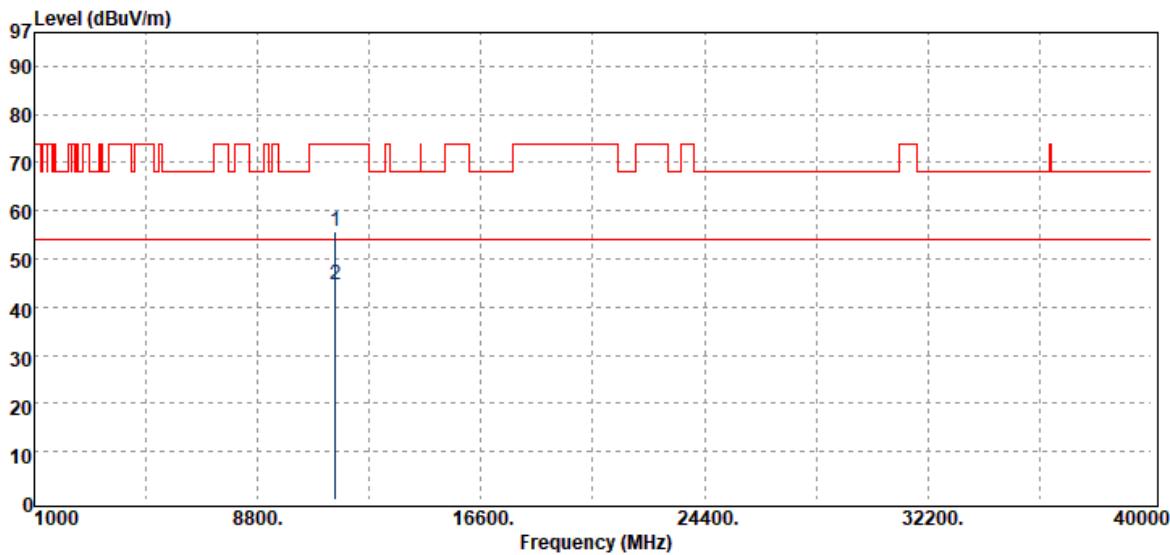
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Report Number	:ER-2019-A0015	Test Date	:2019-10-05
Operation Mode	:802.11n40	Temp./Humi.	:23.1/66
Test Channel	:CH151_5755 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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
11510.00	Peak	29.25	26.47	55.72	74.00	-18.28
11510.00	Average	18.06	26.47	44.53	54.00	-9.47

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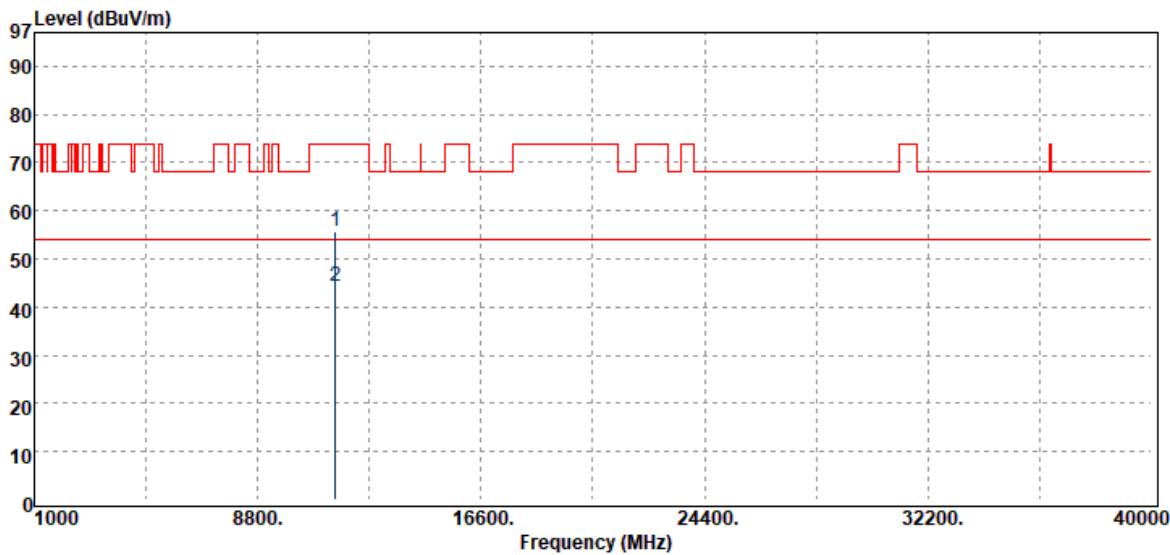
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Report Number :ER-2019-A0015  
 Operation Mode :802.11n40  
 Test Channel :CH151\_5755 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Date :2019-10-05  
 Temp./Humi. :23.1/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Nick



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
11510.00	Peak	29.25	26.47	55.72	74.00	-18.28
11510.00	Average	17.86	26.47	44.33	54.00	-9.67

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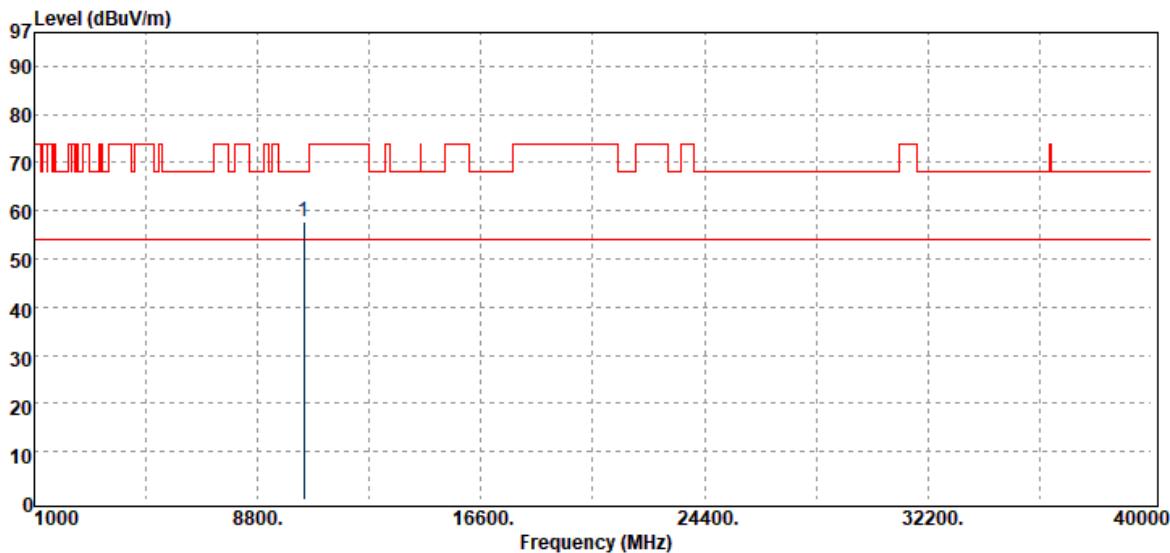
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
Operation Mode :802.11ac80 Temp./Humi. :23.1/66  
Test Channel :CH42\_5210 MHz Antenna Pol. :VERTICAL  
Test Mode :Tx CH Low Engineer :Nick  
EUT Pol :H Plane



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	30.90	26.92	57.82	68.20	-10.38

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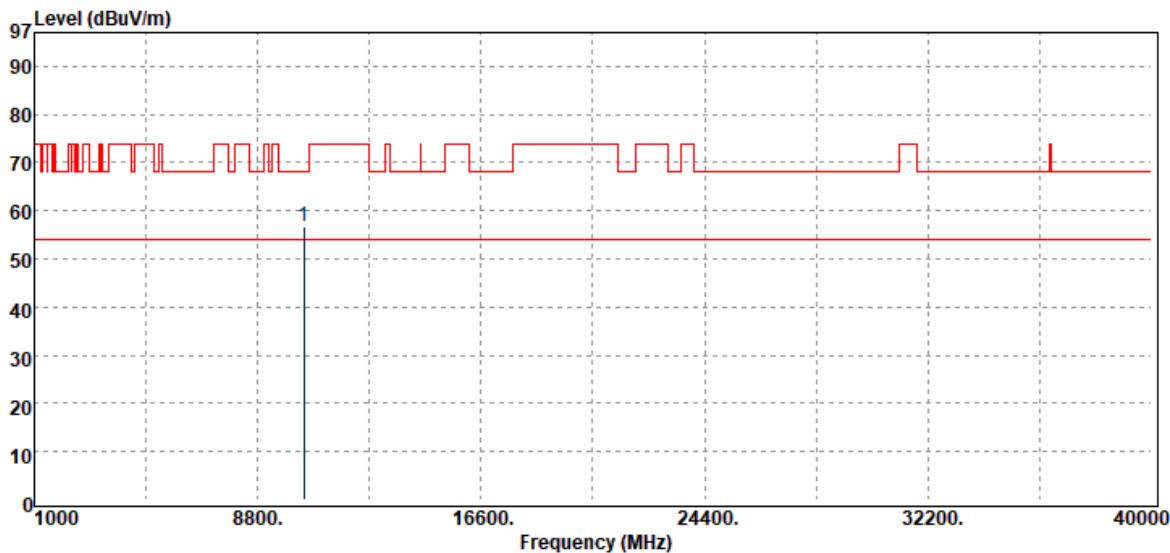
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Report Number :ER-2019-A0015  
Operation Mode :802.11ac80  
Test Channel :CH42\_5210 MHz  
Test Mode :Tx CH Low  
EUT Pol :H Plane

Test Date :2019-10-05  
Temp./Humi. :23.1/66  
Antenna Pol. :HORIZONTAL  
Engineer :Nick



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	29.76	26.92	56.68	68.20	-11.52

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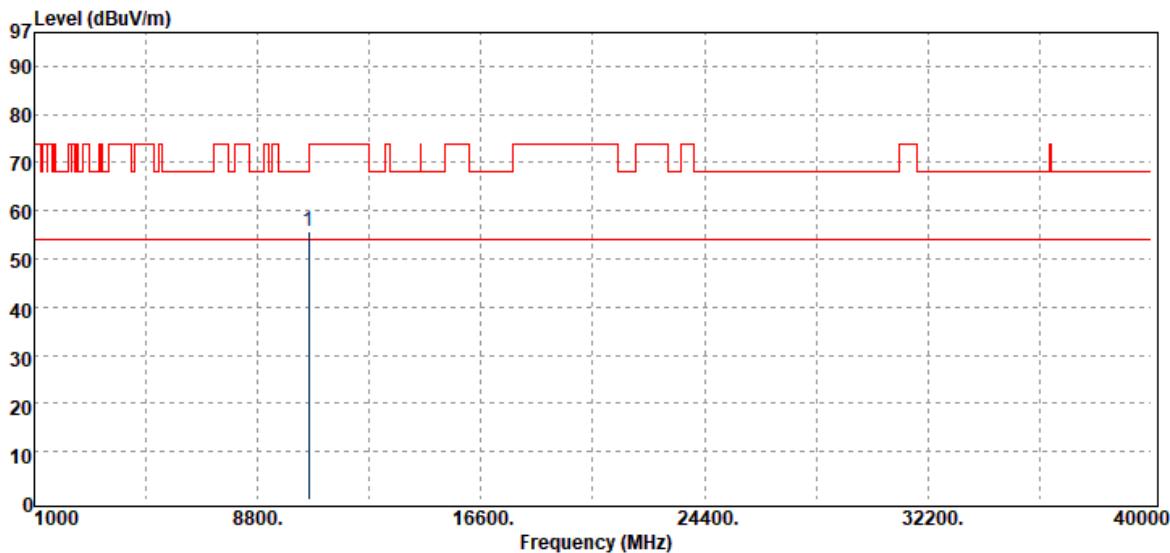
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Report Number	:ER-2019-A0015	Test Date	:2019-10-05
Operation Mode	:802.11ac80	Temp./Humi.	:23.1/66
Test Channel	:CH58_5290 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	29.58	26.29	55.87	68.20	-12.33

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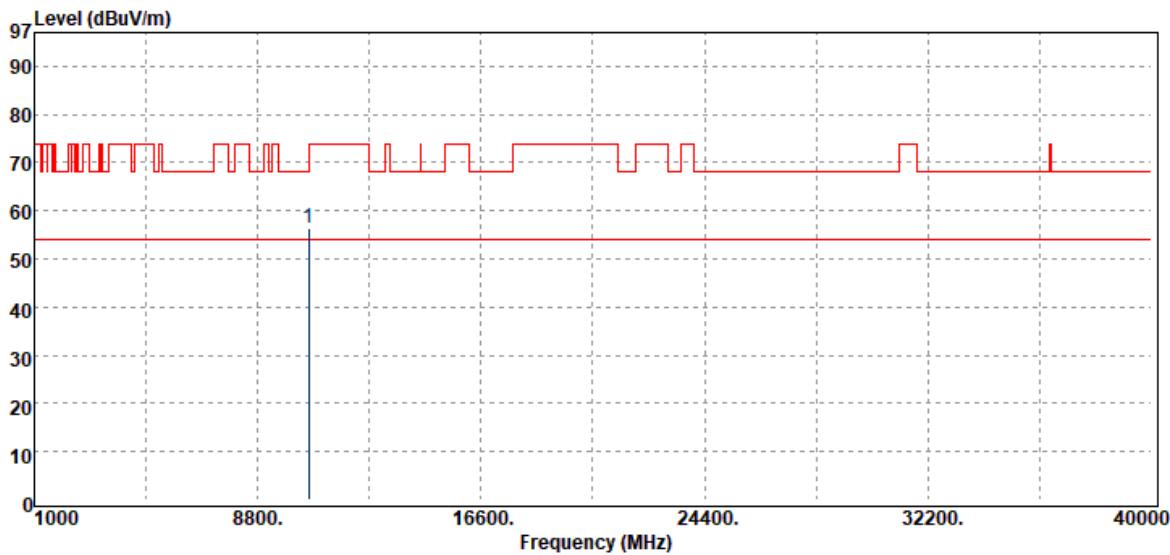
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Report Number	:ER-2019-A0015	Test Date	:2019-10-05
Operation Mode	:802.11ac80	Temp./Humi.	:23.1/66
Test Channel	:CH58_5290 MHz	Antenna Pol.	:HORIZONTAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	30.26	26.29	56.55	68.20	-11.65

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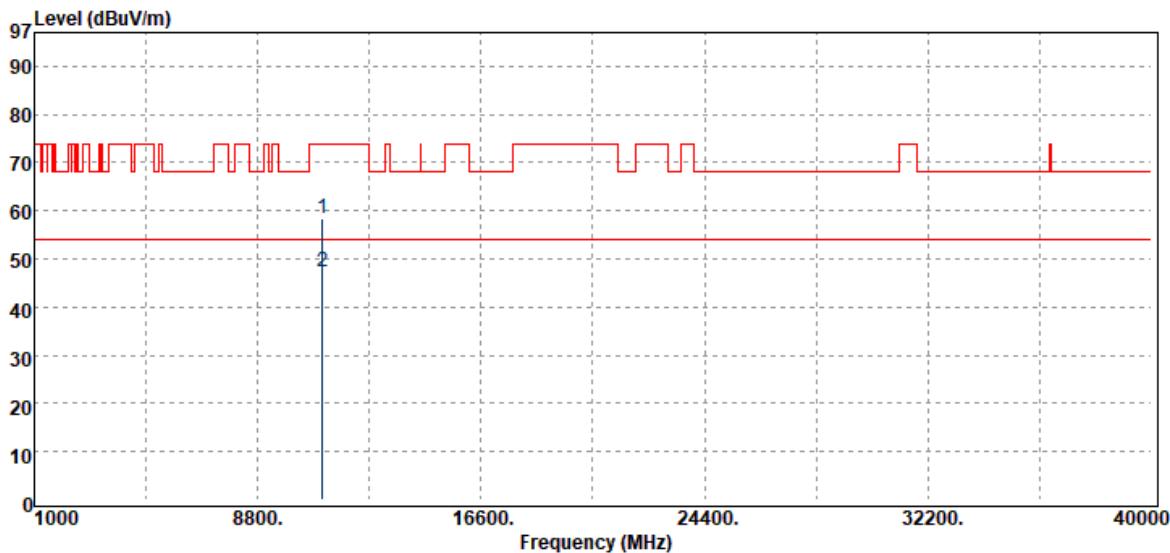
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Report Number	:ER-2019-A0015	Test Date	:2019-10-05
Operation Mode	:802.11ac80	Temp./Humi.	:23.1/66
Test Channel	:CH106_5530 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Nick
EUT Pol	:H Plane		



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	Peak	30.97	27.55	58.52	74.00	-15.48
11060.00	Average	19.87	27.55	47.42	54.00	-6.58

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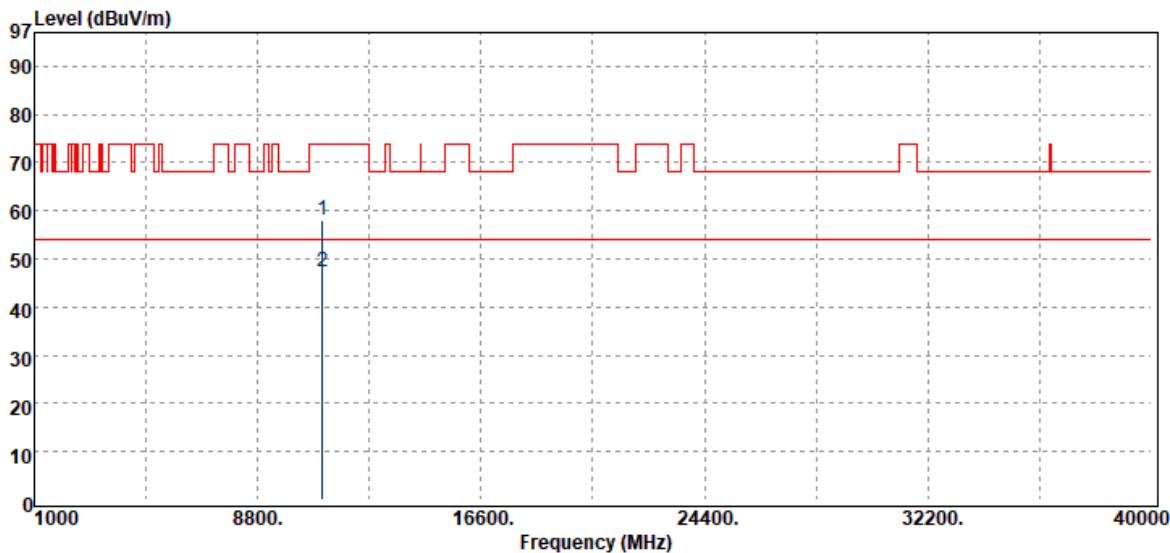
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Report Number :ER-2019-A0015  
 Operation Mode :802.11ac80  
 Test Channel :CH106\_5530 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Date :2019-10-05  
 Temp./Humi. :23.1/66  
 Antenna Pol. :HORIZONTAL  
 Engineer :Nick



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	Peak	30.37	27.55	57.92	74.00	-16.08
11060.00	Average	19.64	27.55	47.19	54.00	-6.81

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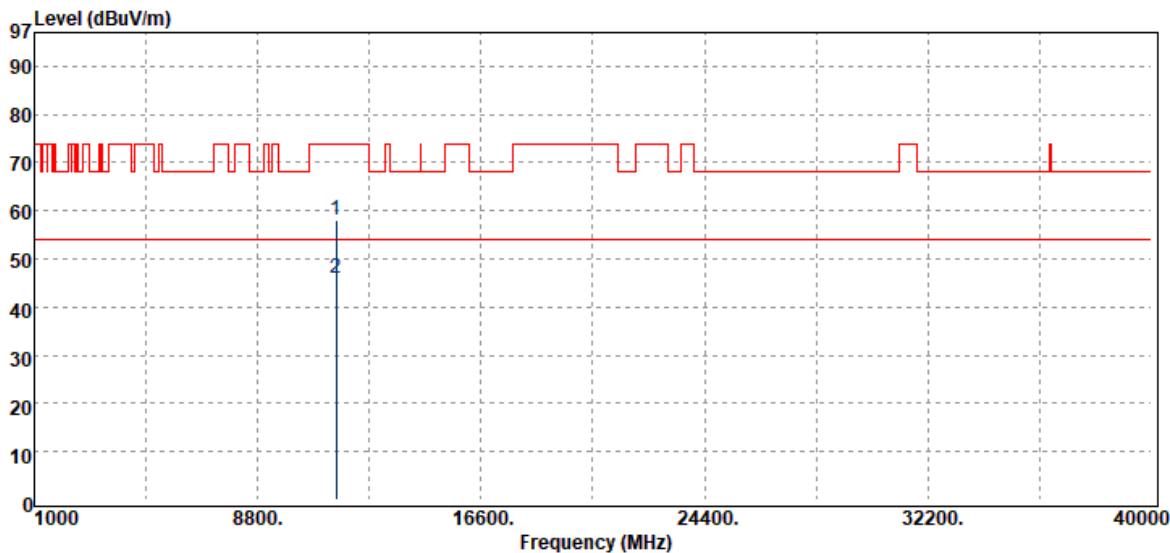
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
 Operation Mode :802.11ac80 Temp./Humi. :23.1/66  
 Test Channel :CH155\_5775 MHz Antenna Pol. :VERTICAL  
 Test Mode :Tx CH Low Engineer :Nick  
 EUT Pol :H Plane



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
11550.00	Peak	30.05	27.91	57.96	74.00	-16.04
11550.00	Average	18.19	27.91	46.10	54.00	-7.90

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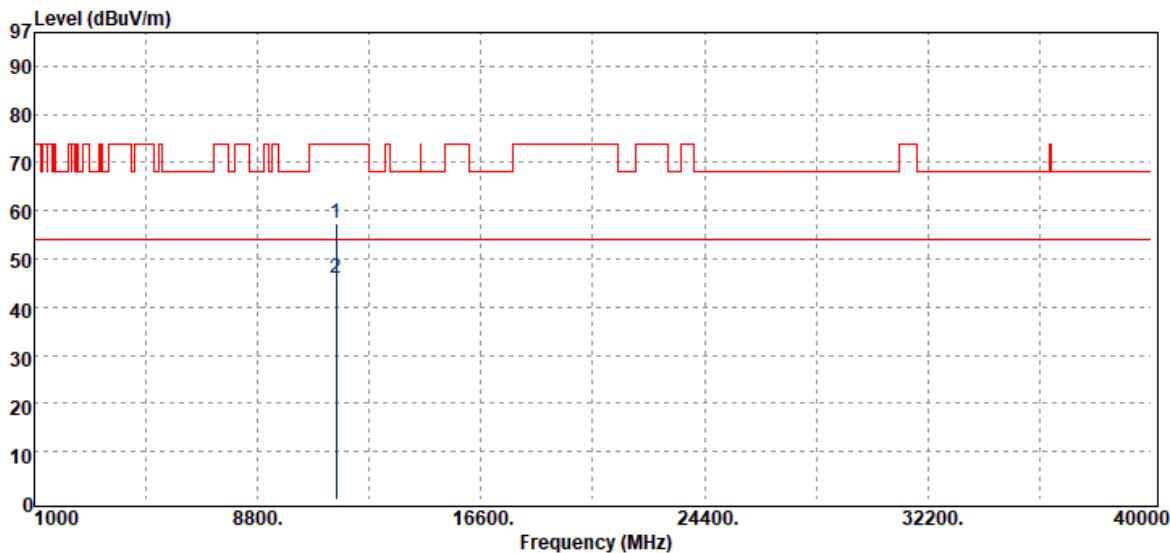
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Report Number :ER-2019-A0015 Test Date :2019-10-05  
Operation Mode :802.11ac80 Temp./Humi. :23.1/66  
Test Channel :CH155\_5775 MHz Antenna Pol. :HORIZONTAL  
Test Mode :Tx CH Low Engineer :Nick  
EUT Pol :H Plane



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
11550.00	Peak	29.54	27.91	57.45	74.00	-16.55
11550.00	Average	18.13	27.91	46.04	54.00	-7.96

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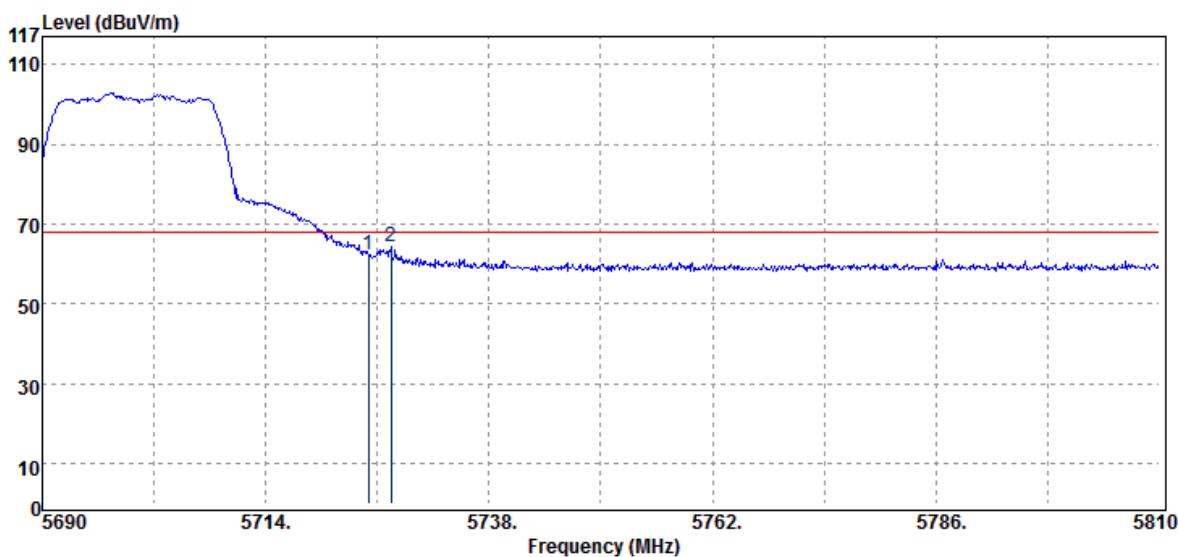
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**Band edge falling to restricted band****SISO****802.11n20 HT mode**

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

Test Date :2018-09-21  
 Temp./Hum.:23 deg\_C / 62 RH  
 Engineer :Wei  
 Measurement Antenna Pol.:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB <sub>μ</sub> V	Factor dB	Actual FS dB <sub>μ</sub> V/m	Limit @3m dB <sub>μ</sub> V/m	Margin dB
5725.00	Peak	52.95	9.44	62.39	68.20	-5.81
5727.44	Peak	54.91	9.44	64.35	68.20	-3.85

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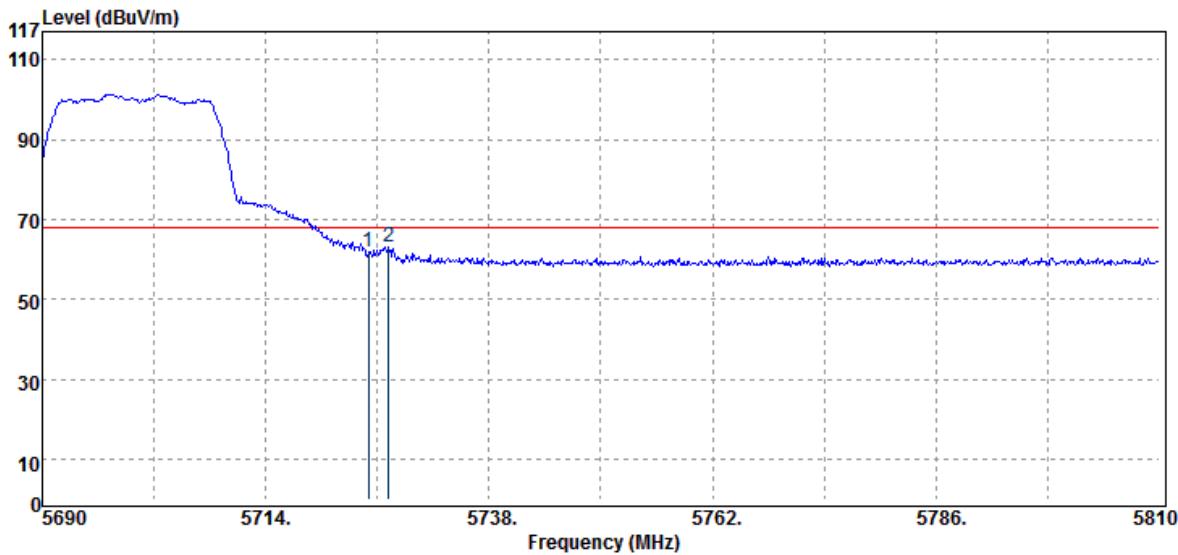
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Operation Band :802.11n20B3  
 Fundamental Frequency :5700 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-21  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	52.40	9.44	61.84	68.20	-6.36
5727.20	Peak	53.84	9.44	63.28	68.20	-4.92

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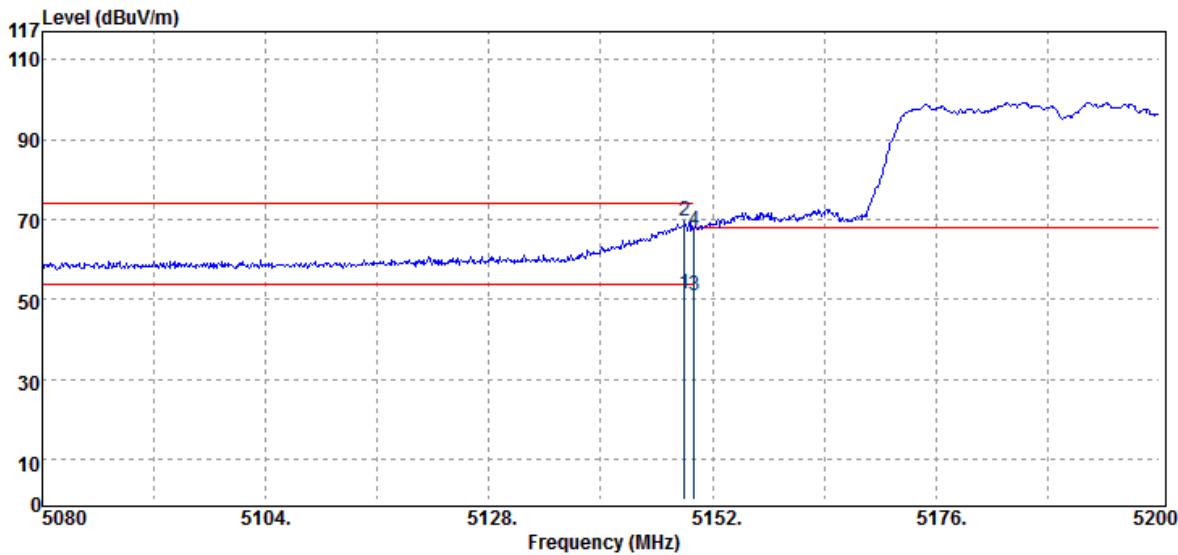
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**802.11n40 HT mode**

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

Test Date :2018-09-21  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5149.00	Average	43.18	8.30	51.48	54.00	-2.52
5149.00	Peak	61.22	8.30	69.52	74.00	-4.48
5150.00	Average	42.75	8.32	51.07	54.00	-2.93
5150.00	Peak	58.68	8.32	67.00	74.00	-7.00

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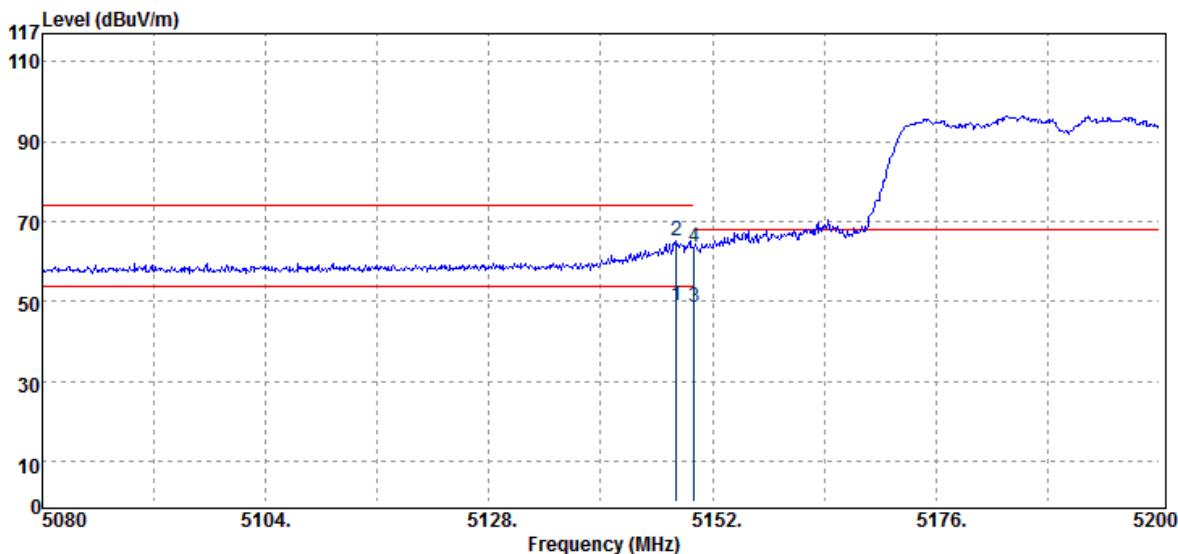
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Operation Band :802.11n40B1  
 Fundamental Frequency :5190 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-21  
 Temp./Humi.  
 Engineer :Wei  
 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
5148.16	Average	40.52	8.30	48.82	54.00	-5.18
5148.16	Peak	56.84	8.30	65.14	74.00	-8.86
5150.00	Average	40.24	8.32	48.56	54.00	-5.44
5150.00	Peak	55.06	8.32	63.38	74.00	-10.62

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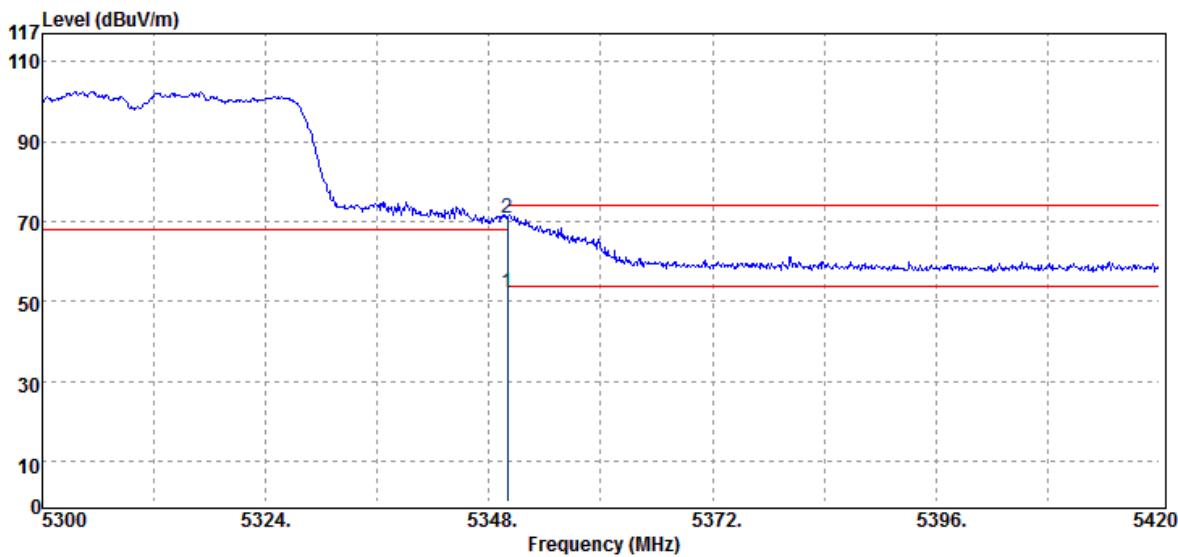
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-21  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	43.44	8.63	52.07	54.00	-1.93
5350.00	Peak	62.24	8.63	70.87	74.00	-3.13

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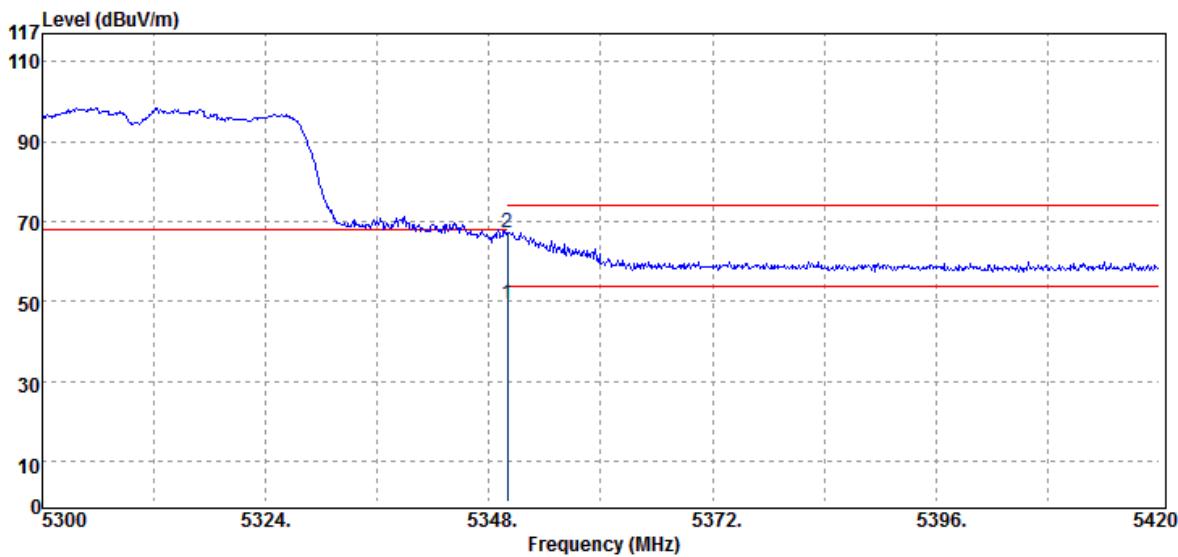
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Operation Band :802.11n40B2  
Fundamental Frequency :5310 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-21  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	40.74	8.63	49.37	54.00	-4.63
5350.00	Peak	58.59	8.63	67.22	74.00	-6.78

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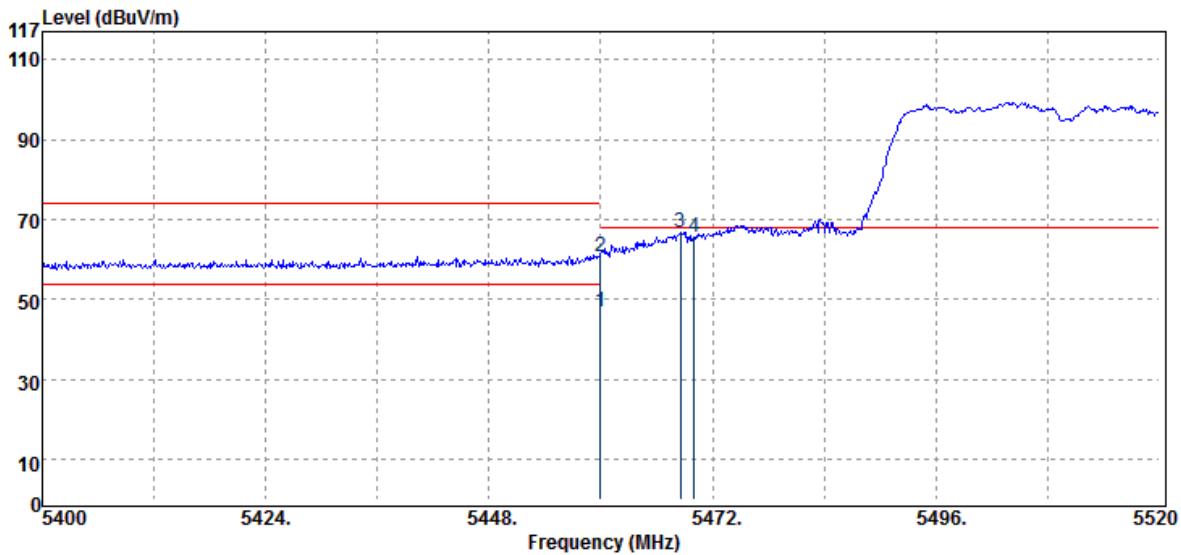
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Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-21  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	38.39	8.75	47.14	54.00	-6.86
5460.00	Peak	52.09	8.75	60.84	74.00	-13.16
5468.52	Peak	58.11	8.74	66.85	68.20	-1.35
5470.00	Peak	56.72	8.74	65.46	68.20	-2.74

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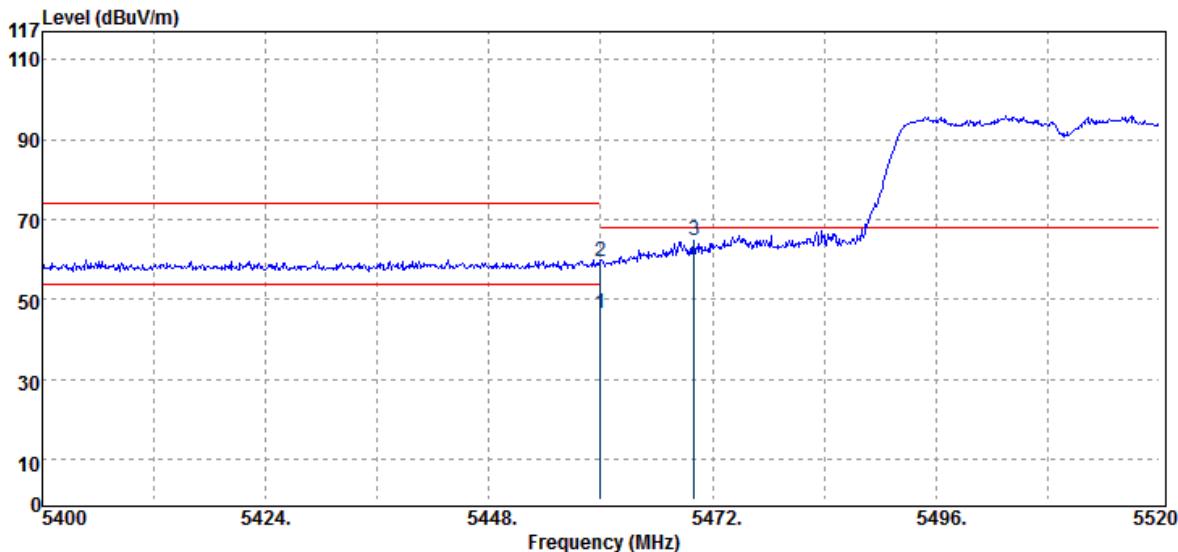
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Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-21  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	37.91	8.75	46.66	54.00	-7.34
5460.00	Peak	50.60	8.75	59.35	74.00	-14.65
5470.00	Peak	56.11	8.74	64.85	68.20	-3.35

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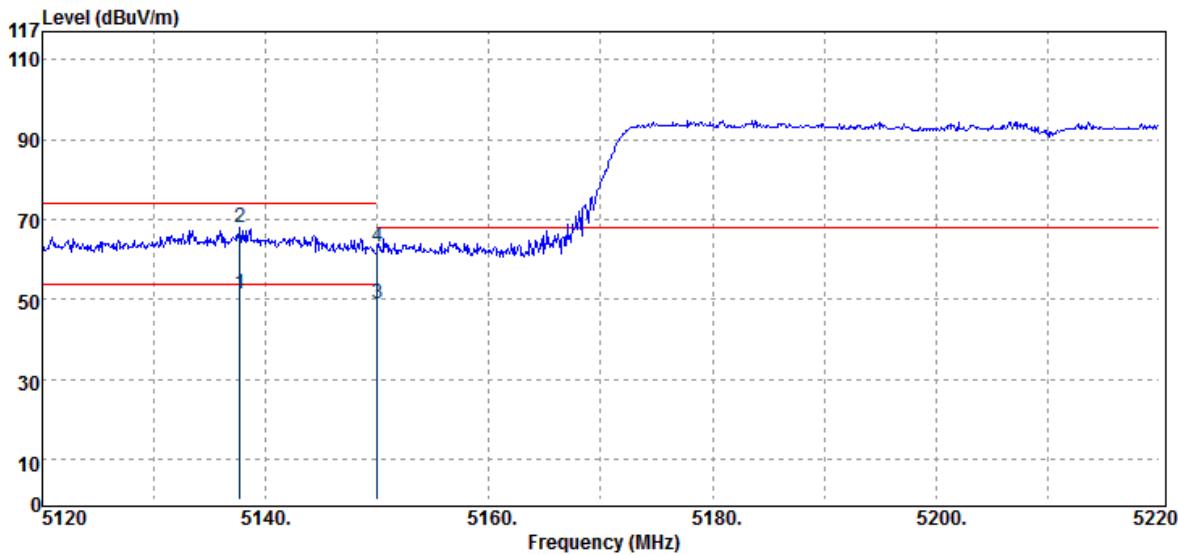
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**802.11ac80 VHT mode**

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

Test Date :2018-09-25  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5137.70	Average	43.27	8.28	51.55	54.00	-2.45
5137.70	Peak	59.82	8.28	68.10	74.00	-5.90
5150.00	Average	40.76	8.32	49.08	54.00	-4.92
5150.00	Peak	54.91	8.32	63.23	74.00	-10.77

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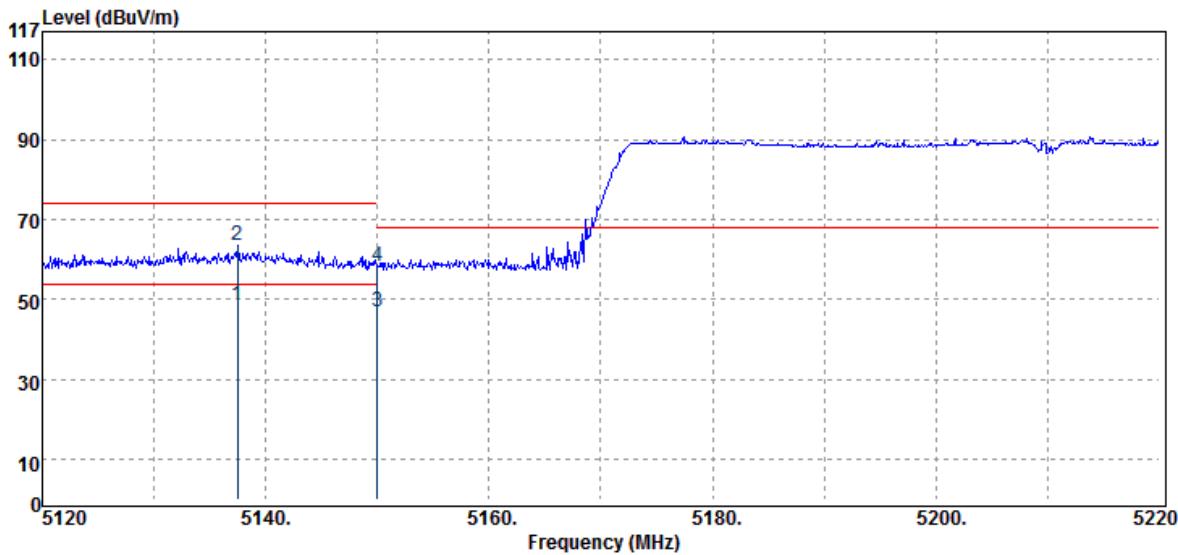
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Operation Band :802.11ac80B1  
 Fundamental Frequency :5210 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-25  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5137.50	Average	40.16	8.28	48.44	54.00	-5.56
5137.50	Peak	55.12	8.28	63.40	74.00	-10.60
5150.00	Average	38.81	8.32	47.13	54.00	-6.87
5150.00	Peak	50.12	8.32	58.44	74.00	-15.56

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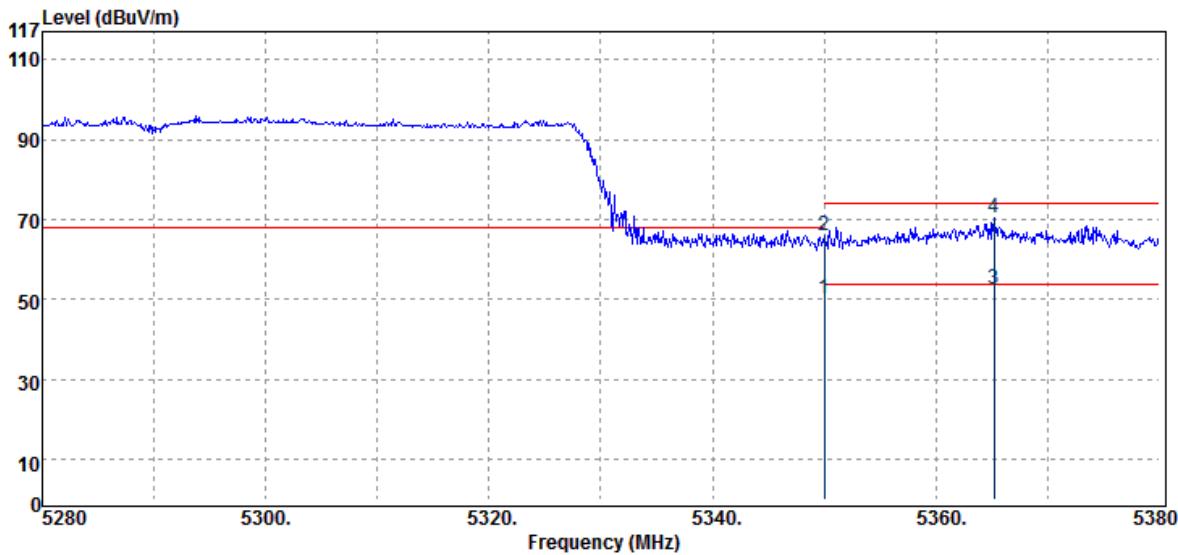
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Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-25  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	41.76	8.63	50.39	54.00	-3.61
5350.00	Peak	57.40	8.63	66.03	74.00	-7.97
5365.20	Average	44.03	8.64	52.67	54.00	-1.33
5365.20	Peak	61.63	8.64	70.27	74.00	-3.73

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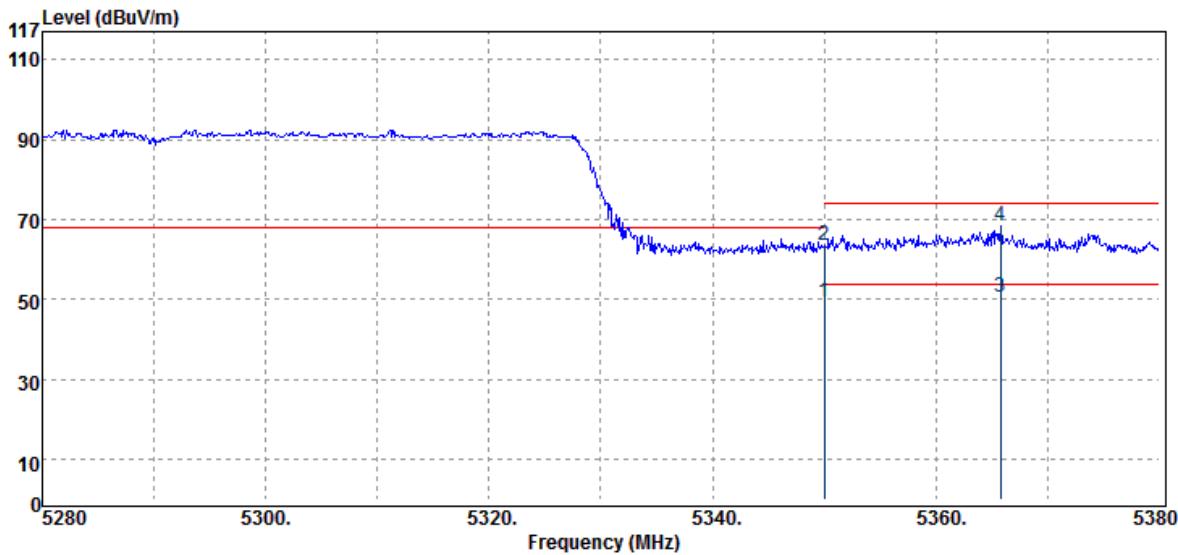
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Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-25  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	40.75	8.63	49.38	54.00	-4.62
5350.00	Peak	54.94	8.63	63.57	74.00	-10.43
5365.80	Average	42.09	8.64	50.73	54.00	-3.27
5365.80	Peak	59.62	8.64	68.26	74.00	-5.74

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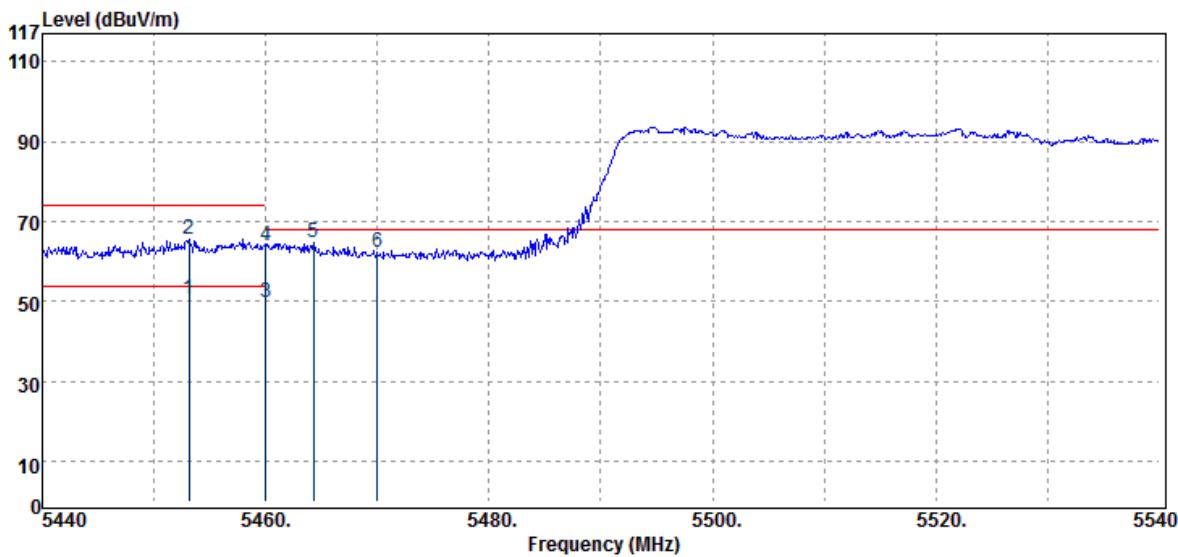
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-25  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5453.10	Average	41.77	8.76	50.53	54.00	-3.47
5453.10	Peak	56.69	8.76	65.45	74.00	-8.55
5460.00	Average	41.23	8.75	49.98	54.00	-4.02
5460.00	Peak	55.10	8.75	63.85	74.00	-10.15
5464.30	Peak	56.02	8.74	64.76	68.20	-3.44
5470.00	Peak	53.42	8.74	62.16	68.20	-6.04

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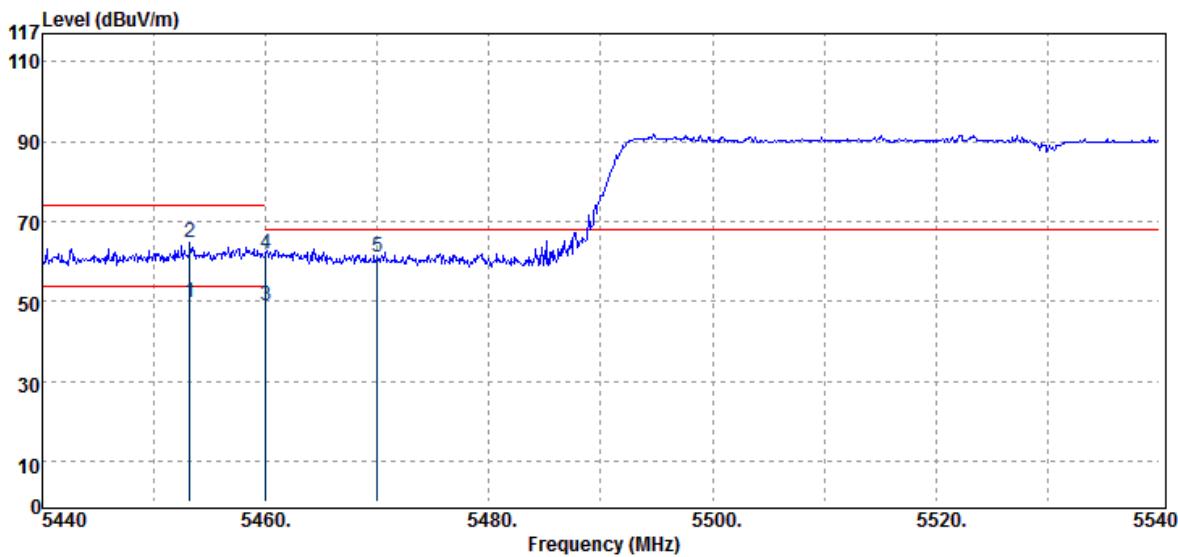
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Operation Band :802.11ac80B3  
 Fundamental Frequency :5530 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-25  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5453.20	Average	40.93	8.76	49.69	54.00	-4.31
5453.20	Peak	55.97	8.76	64.73	74.00	-9.27
5460.00	Average	40.42	8.75	49.17	54.00	-4.83
5460.00	Peak	53.22	8.75	61.97	74.00	-12.03
5470.00	Peak	52.23	8.74	60.97	68.20	-7.23

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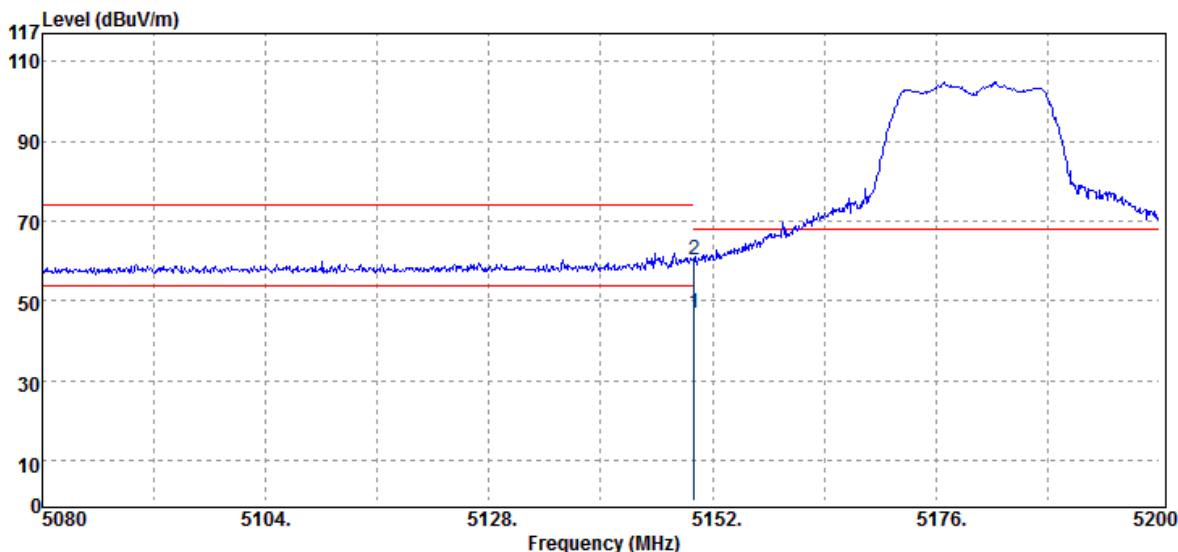
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**MIMO****802.11a mode**

Operation Band	:802.11aB1	Test Date	:2018-09-06
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Wei
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	38.74	8.32	47.06	54.00	-6.94
5150.00	Peak	51.99	8.32	60.31	74.00	-13.69

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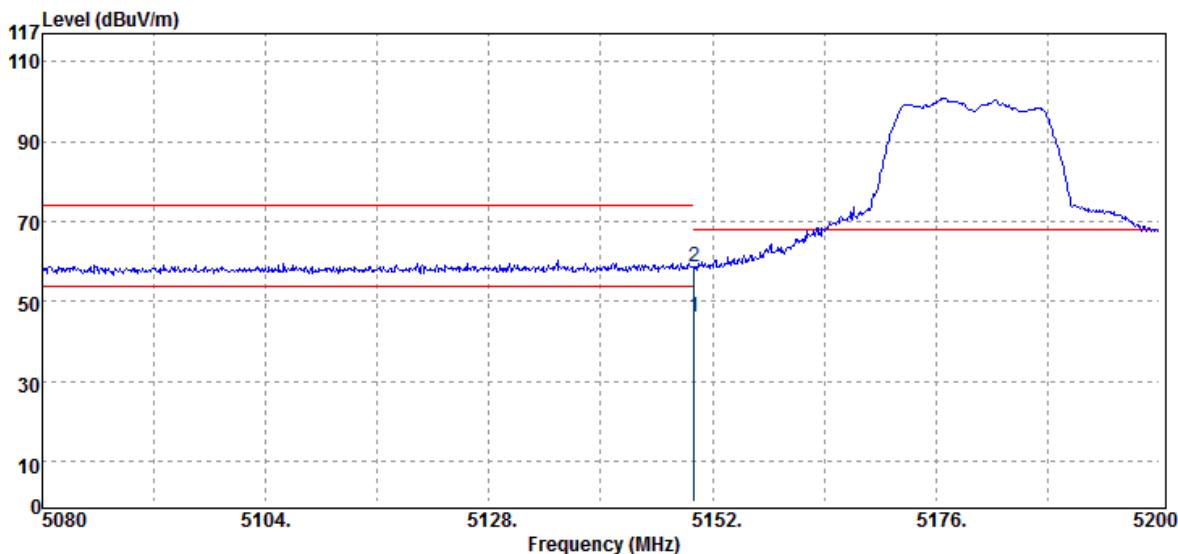
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Operation Band :802.11aB1  
Fundamental Frequency :5180 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-06  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	37.92	8.32	46.24	54.00	-7.76
5150.00	Peak	50.55	8.32	58.87	74.00	-15.13

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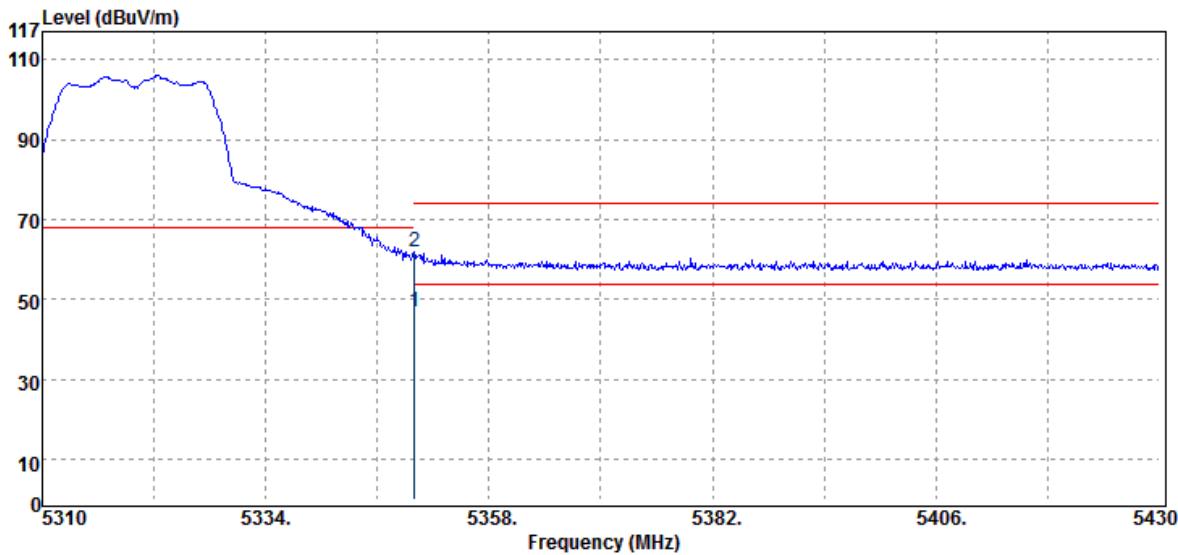
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-06  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	38.26	8.63	46.89	54.00	-7.11
5350.00	Peak	53.22	8.63	61.85	74.00	-12.15

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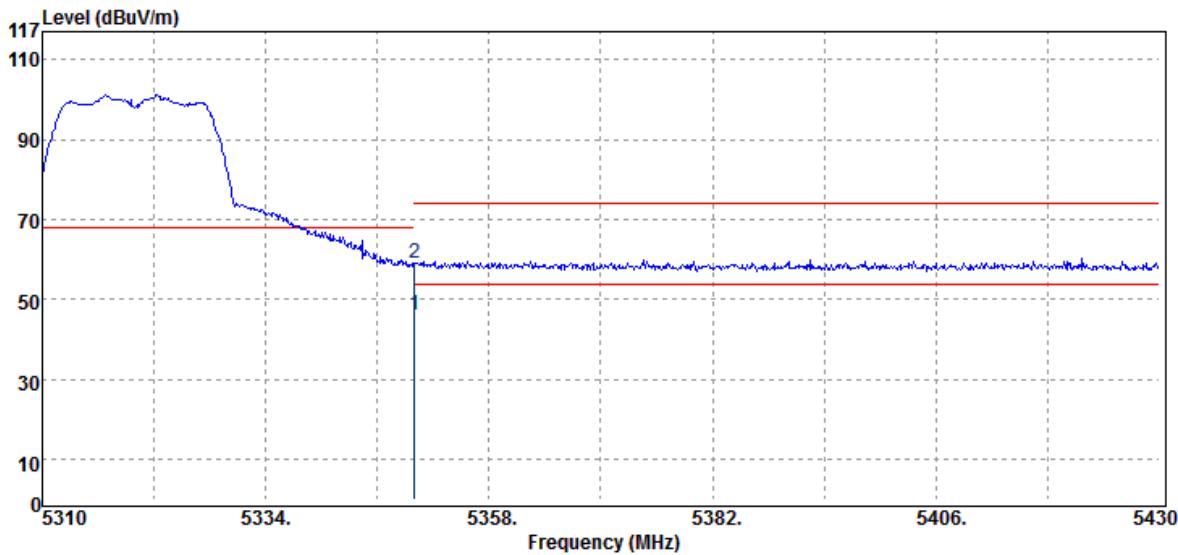
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Operation Band :802.11aB2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-06  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	37.66	8.63	46.29	54.00	-7.71
5350.00	Peak	50.60	8.63	59.23	74.00	-14.77

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

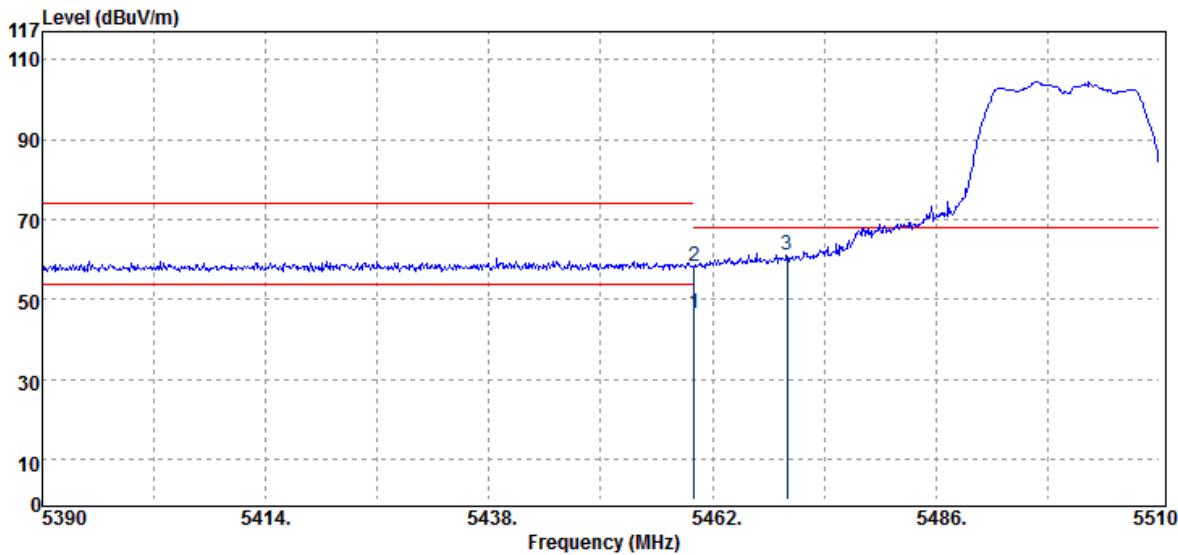
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Operation Band :802.11aB3  
Fundamental Frequency :5500 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	37.85	8.75	46.60	54.00	-7.40
5460.00	Peak	49.57	8.75	58.32	74.00	-15.68
5470.00	Peak	52.46	8.74	61.20	68.20	-7.00

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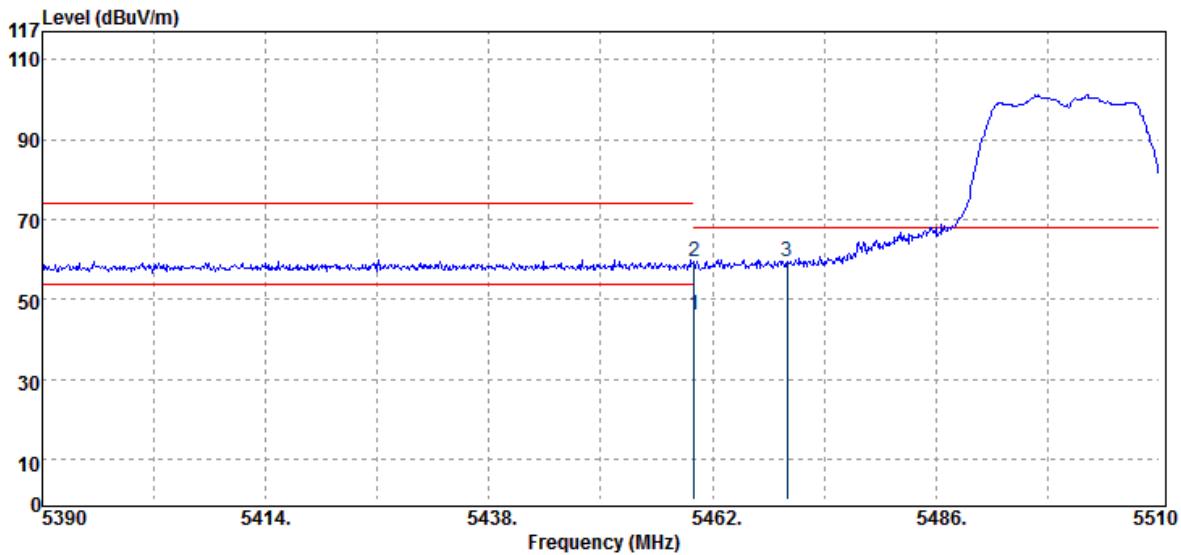
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Operation Band :802.11aB3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	37.42	8.75	46.17	54.00	-7.83
5460.00	Peak	50.71	8.75	59.46	74.00	-14.54
5470.00	Peak	50.69	8.74	59.43	68.20	-8.77

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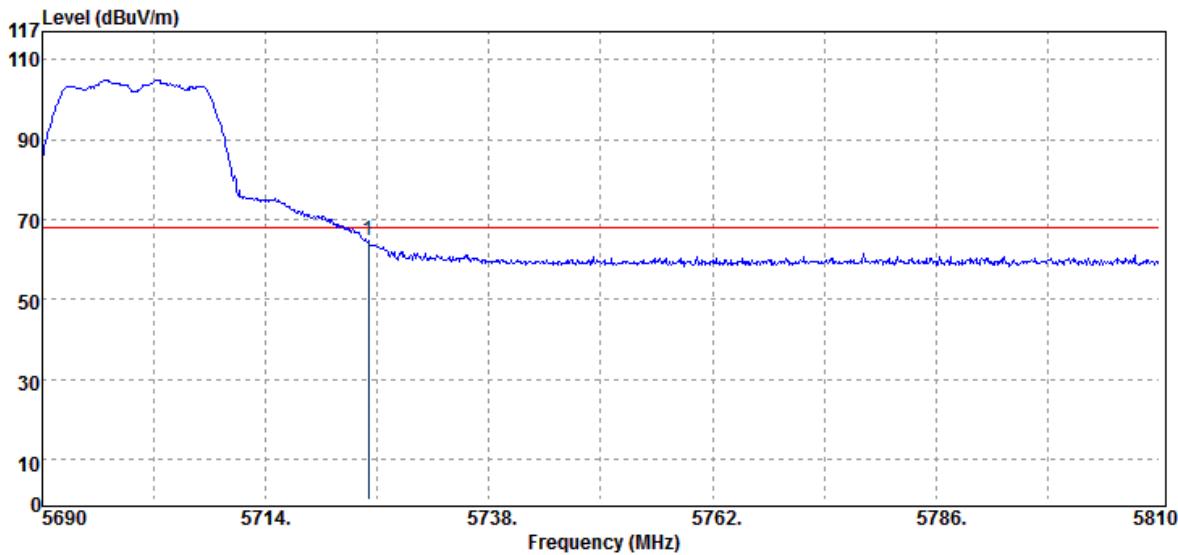
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Operation Band :802.11aB3  
Fundamental Frequency :5700 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	55.36	9.44	64.80	68.20	-3.40

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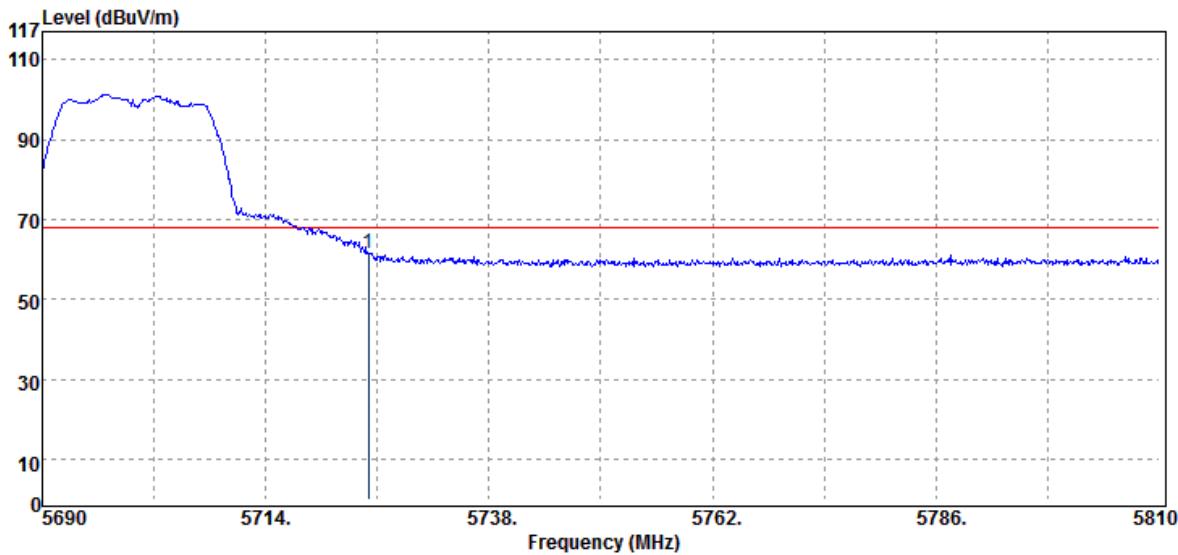
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Operation Band :802.11aB3  
Fundamental Frequency :5700 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	52.03	9.44	61.47	68.20	-6.73

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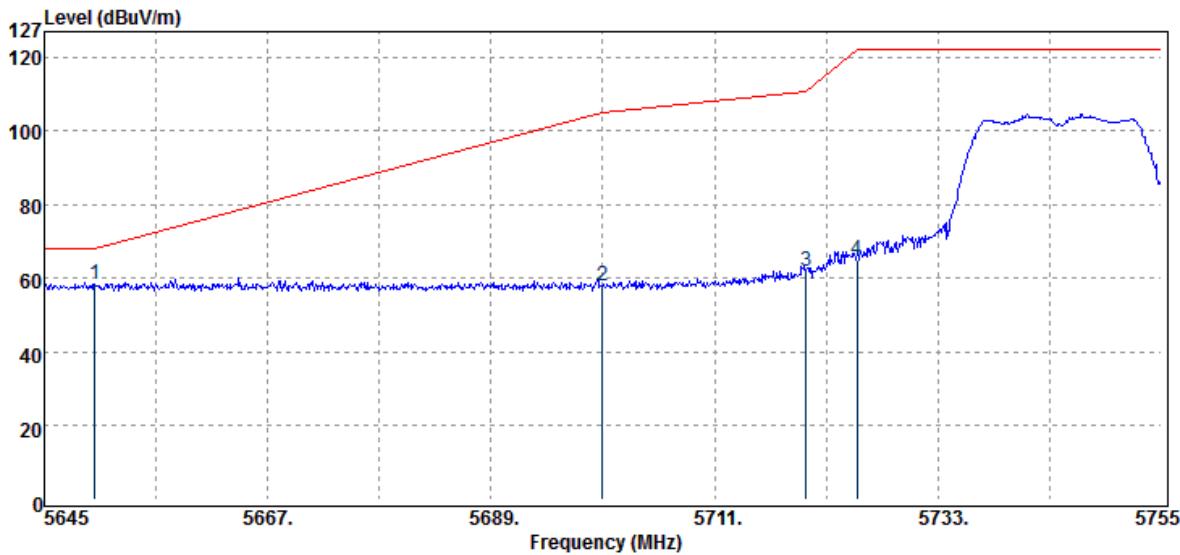
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Operation Band :802.11aB4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	49.15	9.20	58.35	68.23	-9.88
5700.00	Peak	48.54	9.35	57.89	105.23	-47.34
5720.00	Peak	52.48	9.43	61.91	110.83	-48.92
5725.00	Peak	55.51	9.44	64.95	122.23	-57.28

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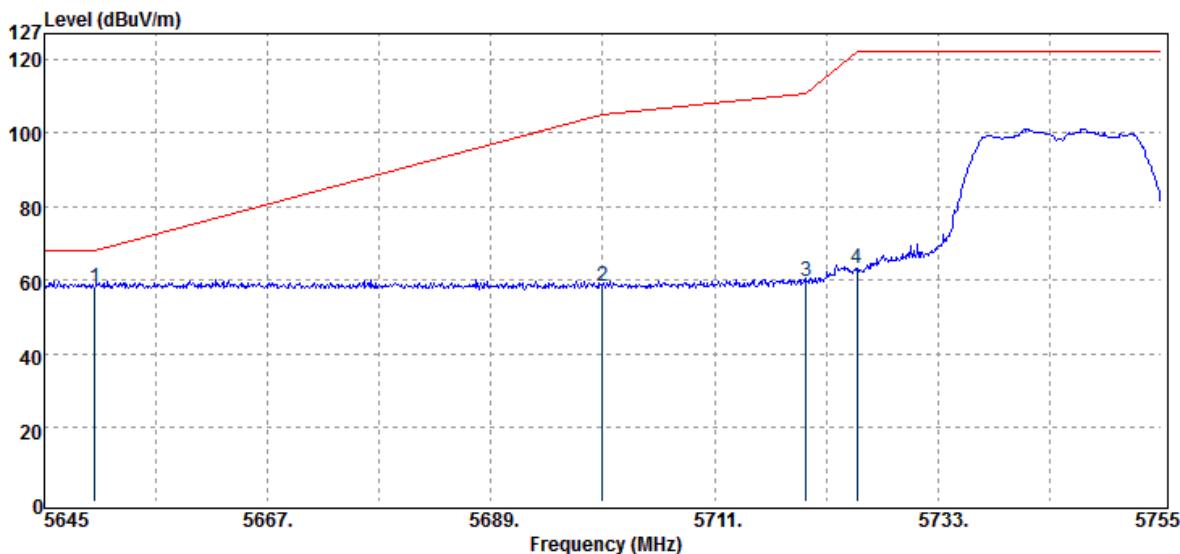
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Operation Band :802.11aB4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	49.00	9.20	58.20	68.23	-10.03
5700.00	Peak	49.26	9.35	58.61	105.23	-46.62
5720.00	Peak	50.43	9.43	59.86	110.83	-50.97
5725.00	Peak	53.81	9.44	63.25	122.23	-58.98

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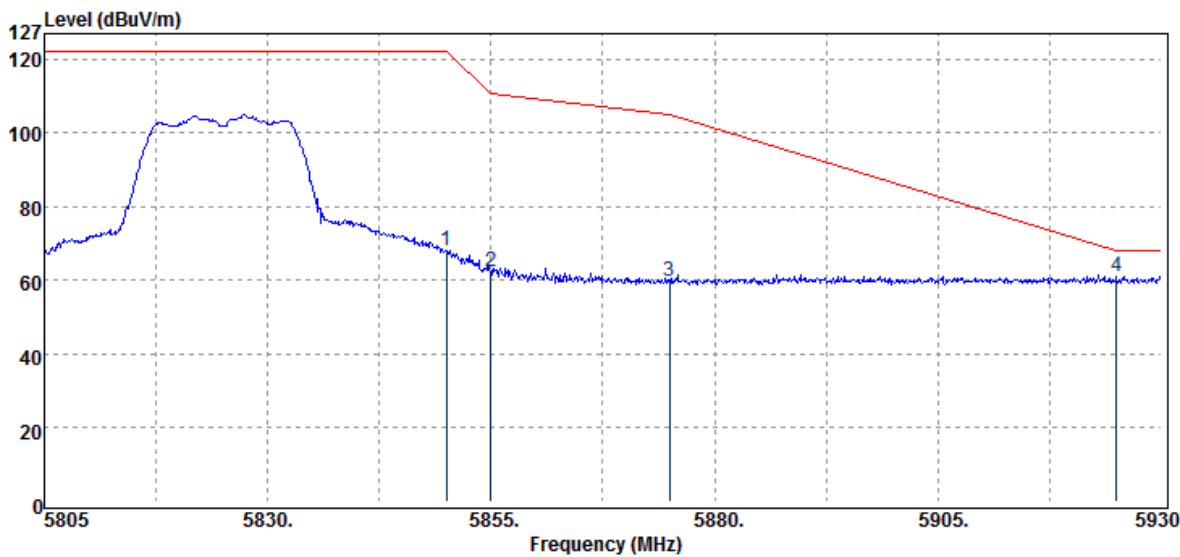
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Operation Band :802.11aB4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	58.39	9.77	68.16	122.23	-54.07
5855.00	Peak	52.50	9.78	62.28	110.83	-48.55
5875.00	Peak	49.77	9.82	59.59	105.23	-45.64
5925.00	Peak	50.89	9.98	60.87	68.23	-7.36

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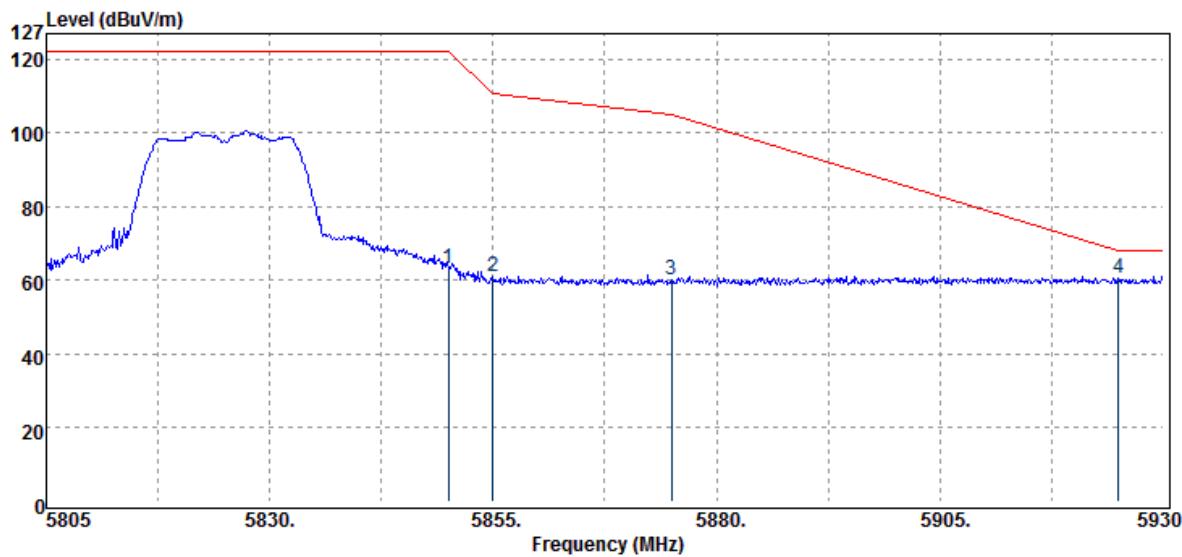
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Operation Band :802.11aB4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	53.33	9.77	63.10	122.23	-59.13
5855.00	Peak	51.22	9.78	61.00	110.83	-49.83
5875.00	Peak	50.55	9.82	60.37	105.23	-44.86
5925.00	Peak	50.57	9.98	60.55	68.23	-7.68

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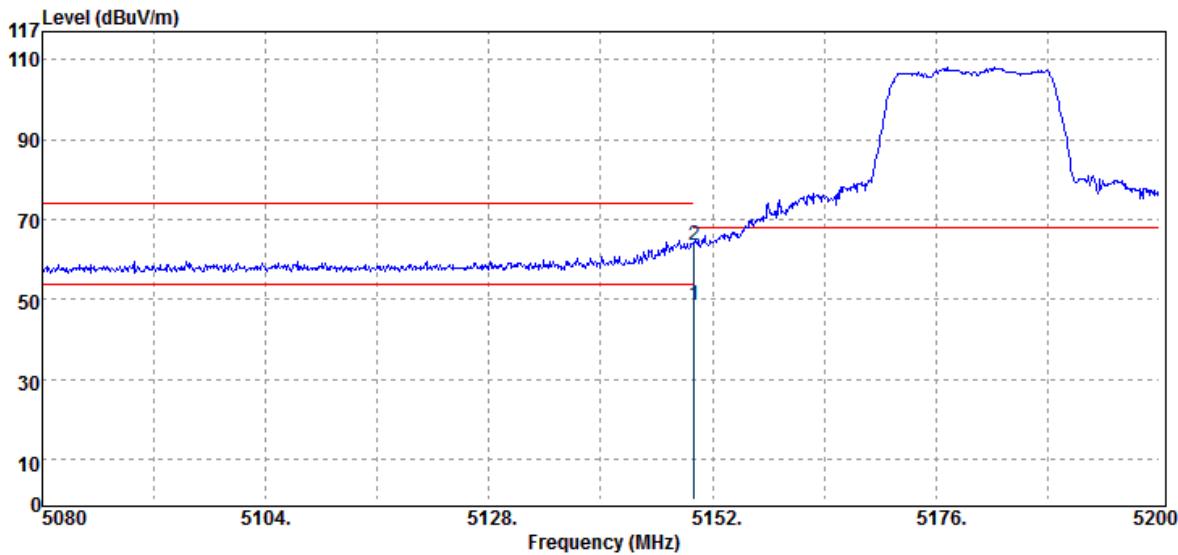
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**802.11n20 HT mode**

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

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	40.44	8.32	48.76	54.00	-5.24
5150.00	Peak	55.40	8.32	63.72	74.00	-10.28

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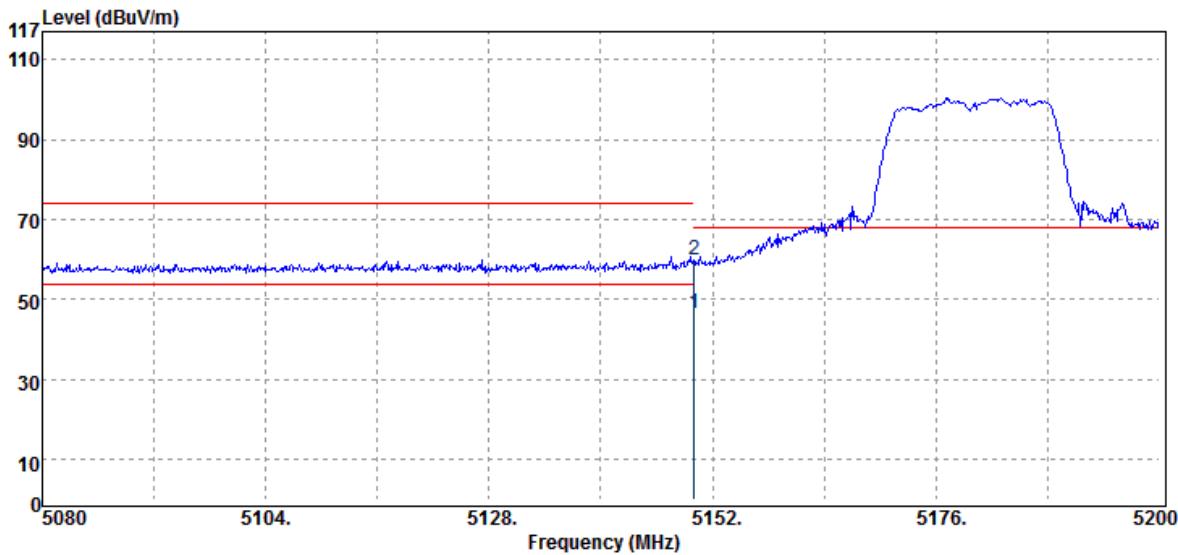
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Operation Band :802.11n20B1  
Fundamental Frequency :5180 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	38.16	8.32	46.48	54.00	-7.52
5150.00	Peak	51.63	8.32	59.95	74.00	-14.05

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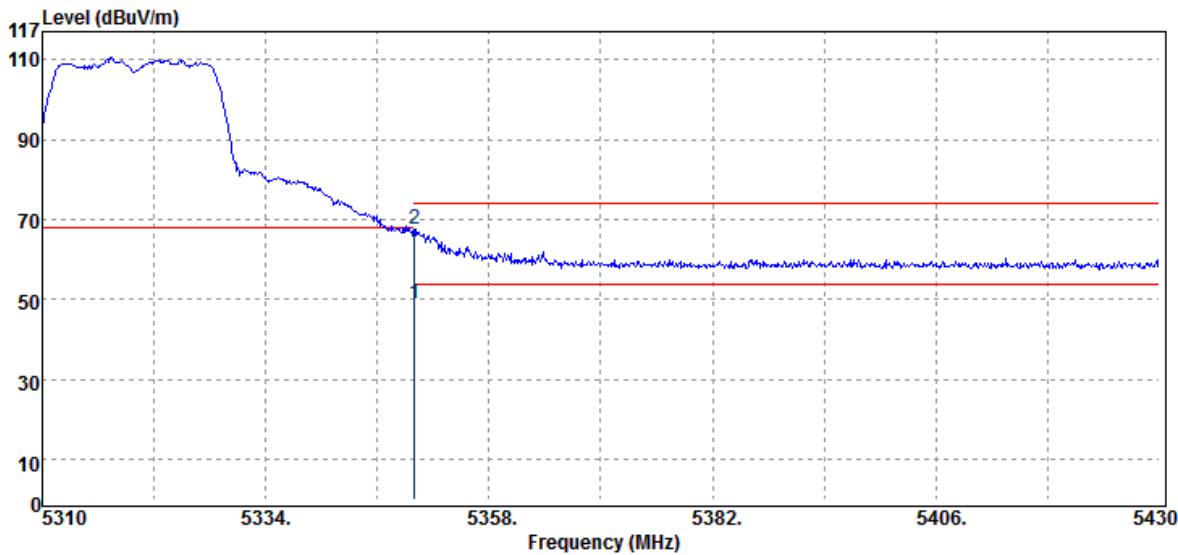
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	40.41	8.63	49.04	54.00	-4.96
5350.00	Peak	59.14	8.63	67.77	74.00	-6.23

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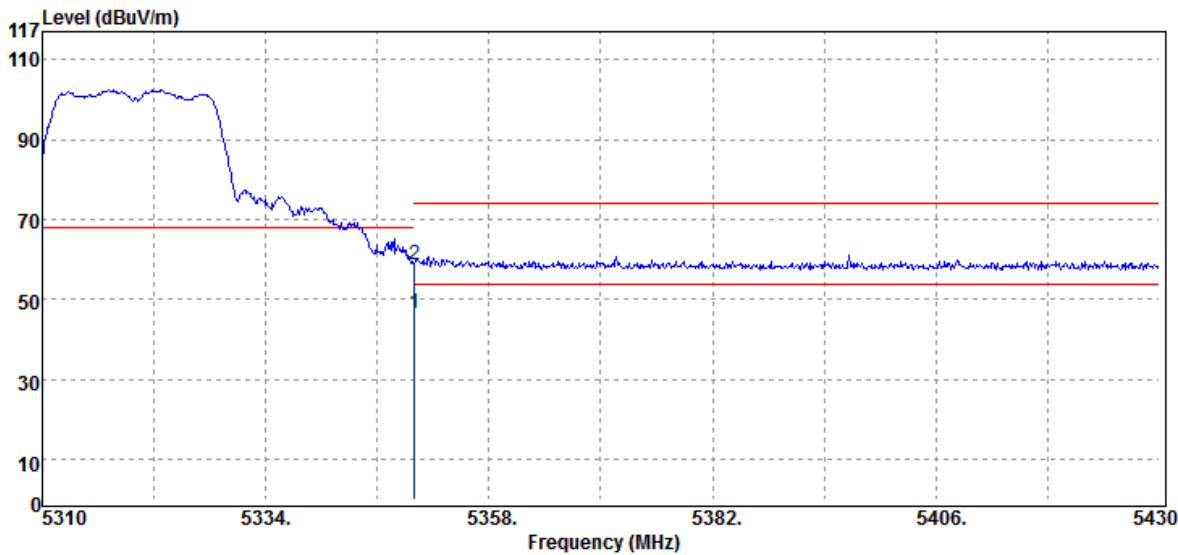
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Operation Band :802.11n20B2  
 Fundamental Frequency :5320 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	37.94	8.63	46.57	54.00	-7.43
5350.00	Peak	50.26	8.63	58.89	74.00	-15.11

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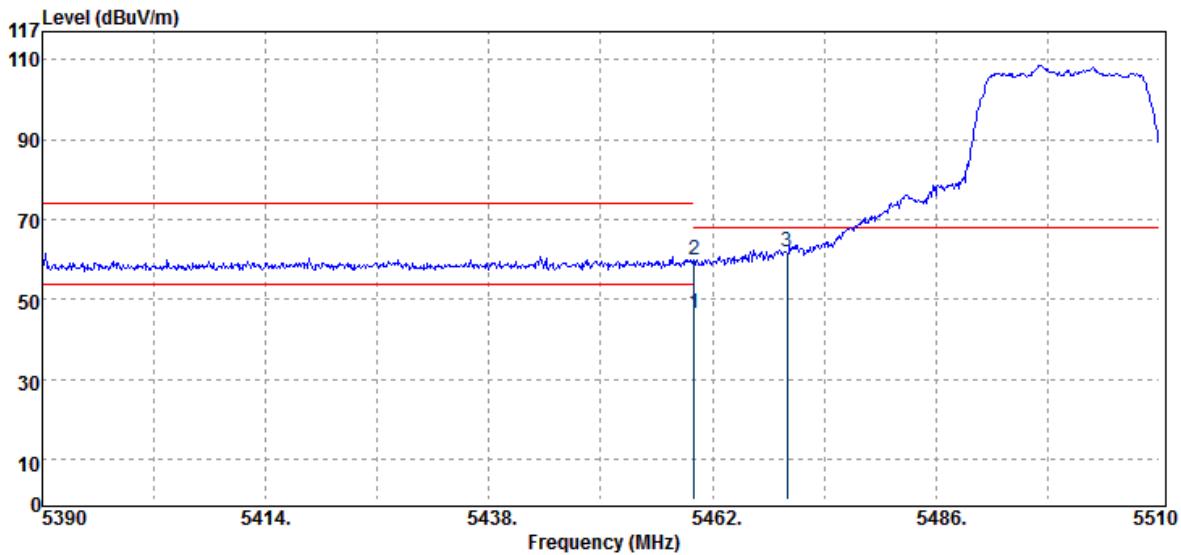
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Operation Band :802.11n20B3  
 Fundamental Frequency :5500 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	37.94	8.75	46.69	54.00	-7.31
5460.00	Peak	51.01	8.75	59.76	74.00	-14.24
5470.00	Peak	53.32	8.74	62.06	68.20	-6.14

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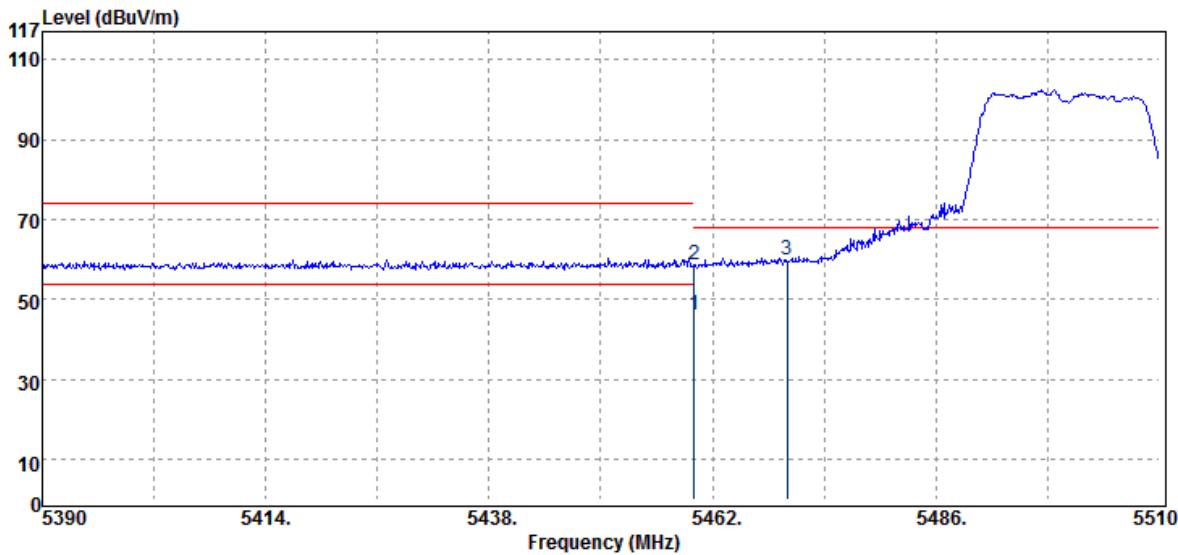
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Operation Band :802.11n20B3  
Fundamental Frequency :5500 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	37.40	8.75	46.15	54.00	-7.85
5460.00	Peak	49.98	8.75	58.73	74.00	-15.27
5470.00	Peak	51.26	8.74	60.00	68.20	-8.20

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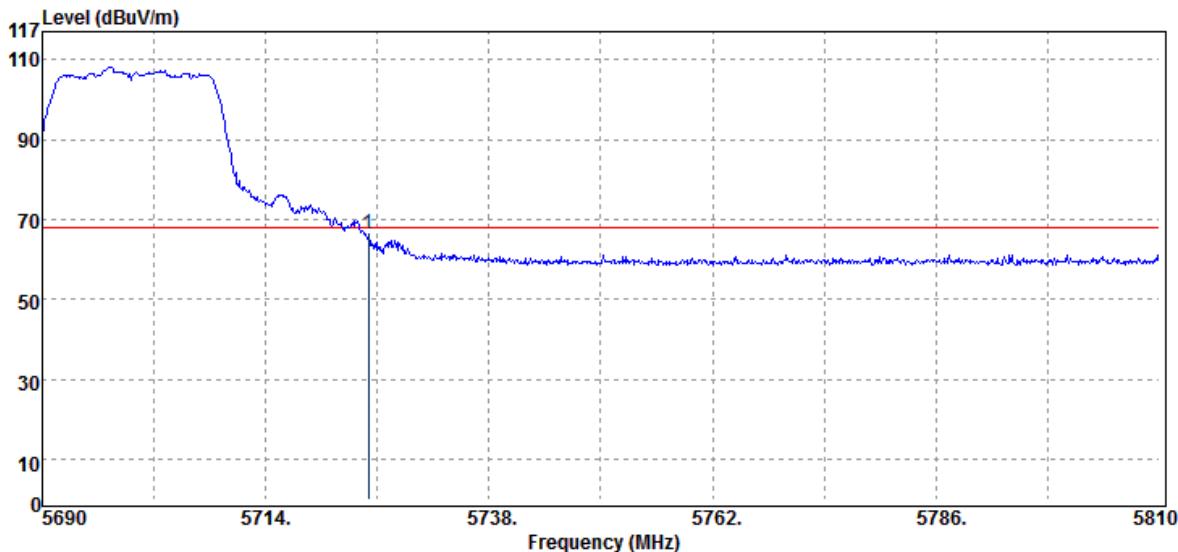
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Operation Band :802.11n20B3  
Fundamental Frequency :5700 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	56.97	9.44	66.41	68.20	-1.79

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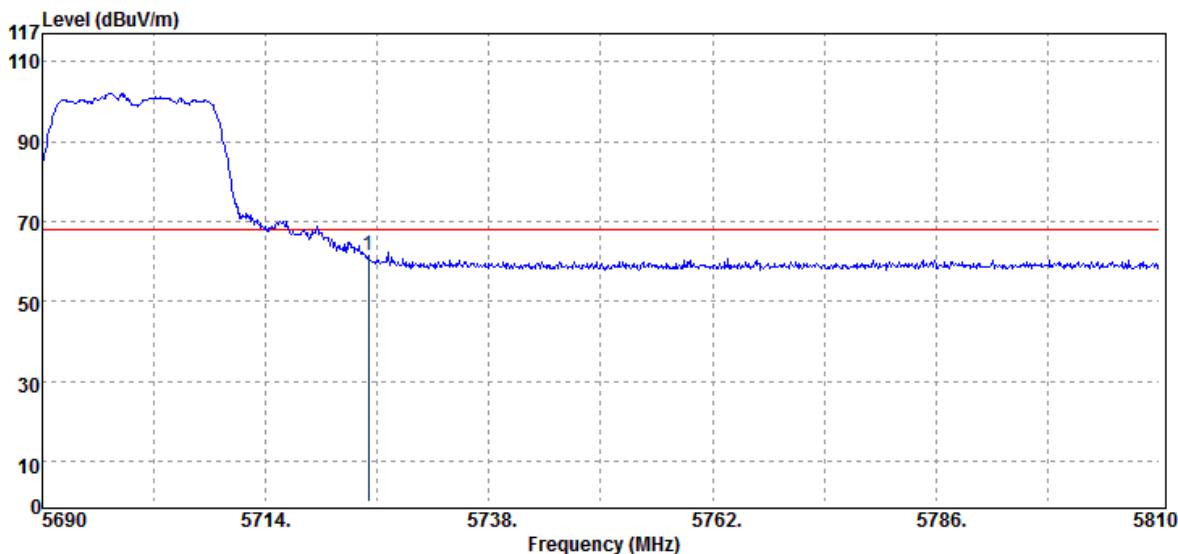
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Operation Band :802.11n20B3  
Fundamental Frequency :5700 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane  
Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
Measurement Antenna Pol. :HORIZONTAL



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	52.25	9.44	61.69	68.20	-6.51

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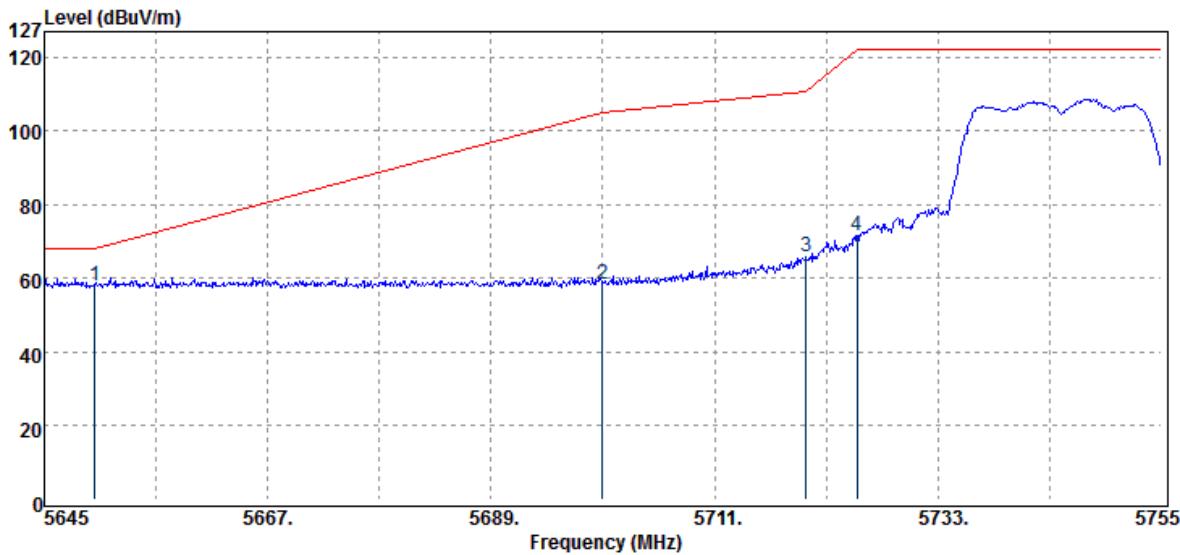
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Operation Band :802.11n20B4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	48.65	9.20	57.85	68.23	-10.38
5700.00	Peak	49.27	9.35	58.62	105.23	-46.61
5720.00	Peak	56.31	9.43	65.74	110.83	-45.09
5725.00	Peak	62.11	9.44	71.55	122.23	-50.68

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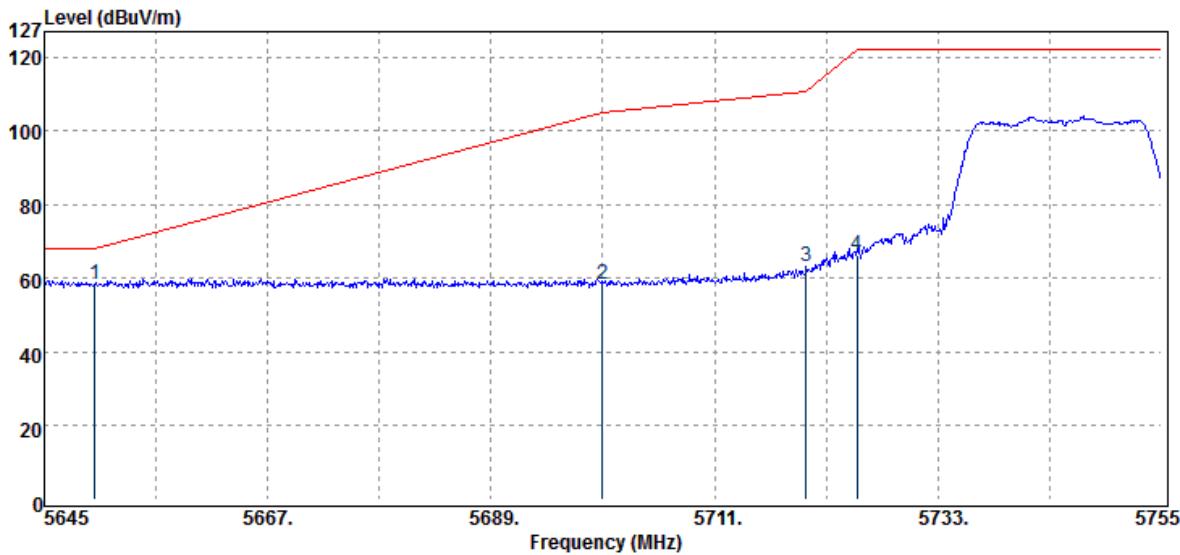
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Operation Band :802.11n20B4  
 Fundamental Frequency :5745 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	49.35	9.20	58.55	68.23	-9.68
5700.00	Peak	49.24	9.35	58.59	105.23	-46.64
5720.00	Peak	53.66	9.43	63.09	110.83	-47.74
5725.00	Peak	57.11	9.44	66.55	122.23	-55.68

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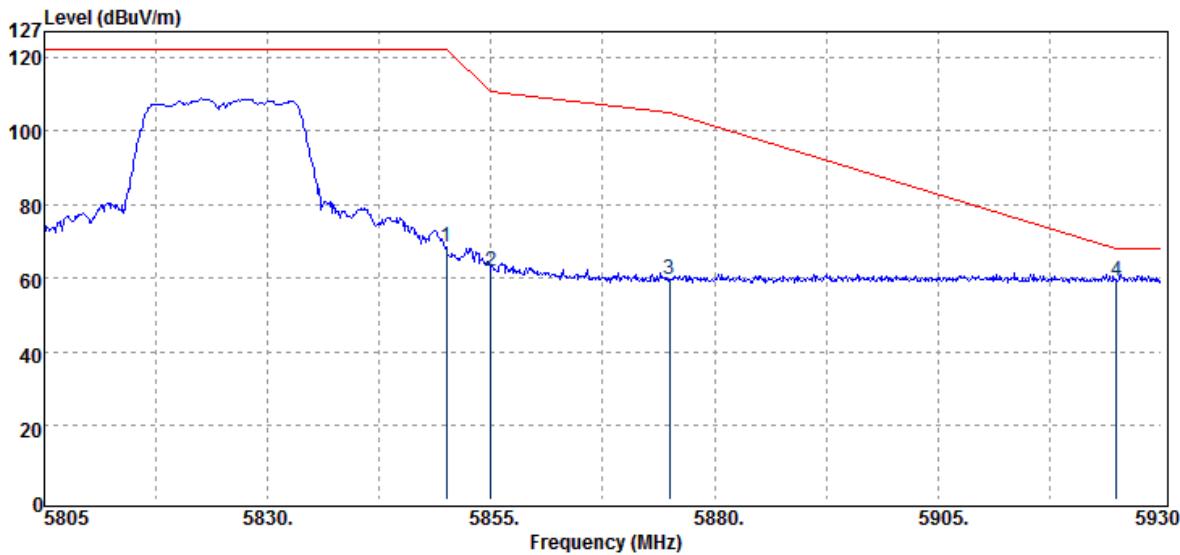
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Operation Band :802.11n20B4  
 Fundamental Frequency :5825 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	58.95	9.77	68.72	122.23	-53.51
5855.00	Peak	52.37	9.78	62.15	110.83	-48.68
5875.00	Peak	49.75	9.82	59.57	105.23	-45.66
5925.00	Peak	49.50	9.98	59.48	68.23	-8.75

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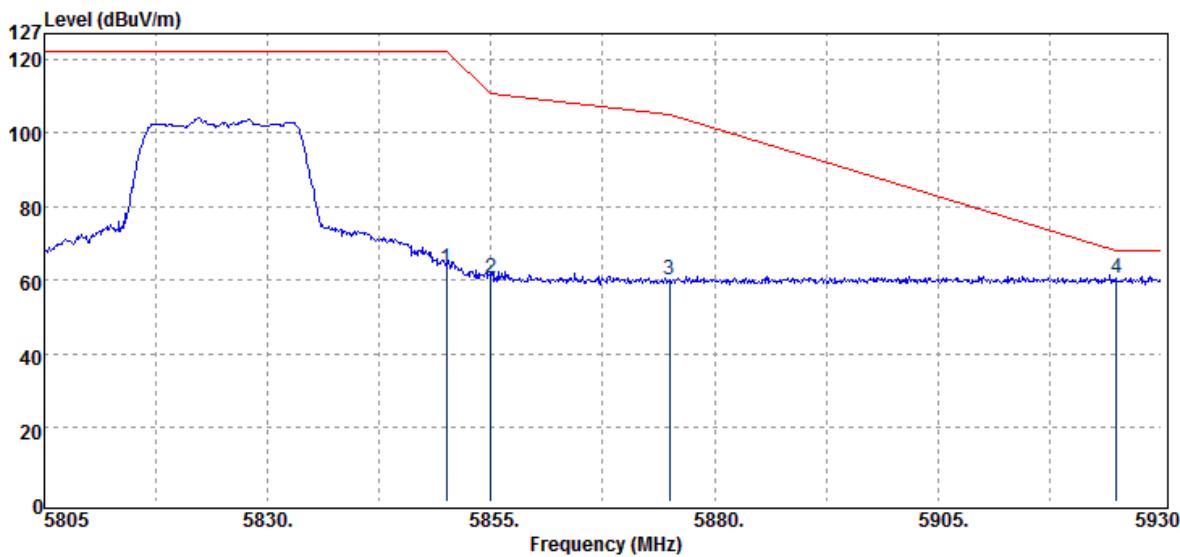
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 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	53.32	9.77	63.09	122.23	-59.14
5855.00	Peak	50.69	9.78	60.47	110.83	-50.36
5875.00	Peak	50.36	9.82	60.18	105.23	-45.05
5925.00	Peak	50.65	9.98	60.63	68.23	-7.60

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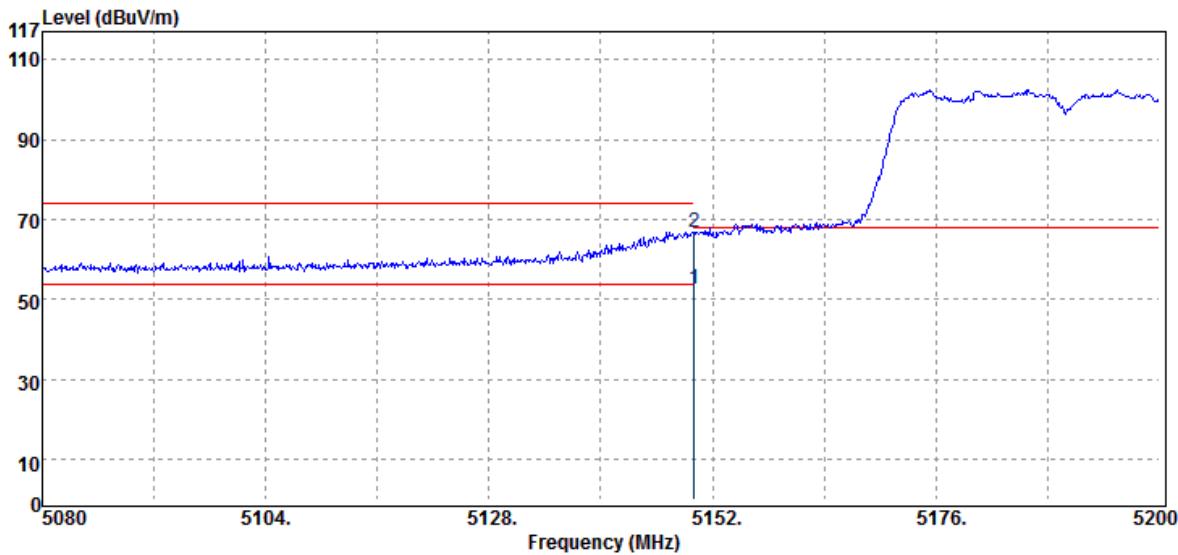
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**802.11n40 HT mode**

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

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	44.21	8.32	52.53	54.00	-1.47
5150.00	Peak	58.60	8.32	66.92	74.00	-7.08

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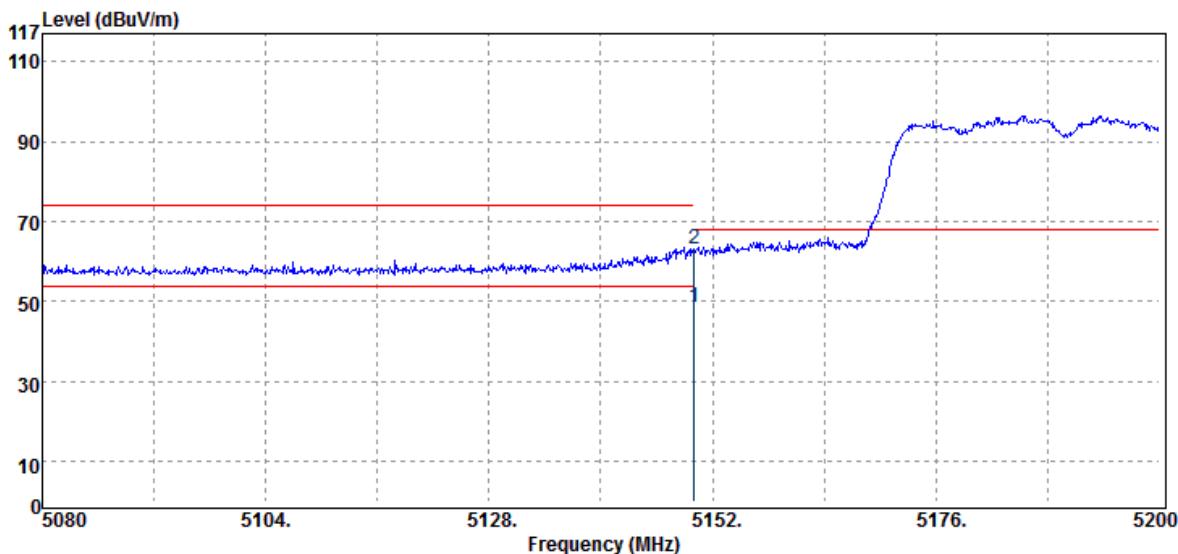
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Operation Band :802.11n40B1  
 Fundamental Frequency :5190 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	40.44	8.32	48.76	54.00	-5.24
5150.00	Peak	54.65	8.32	62.97	74.00	-11.03

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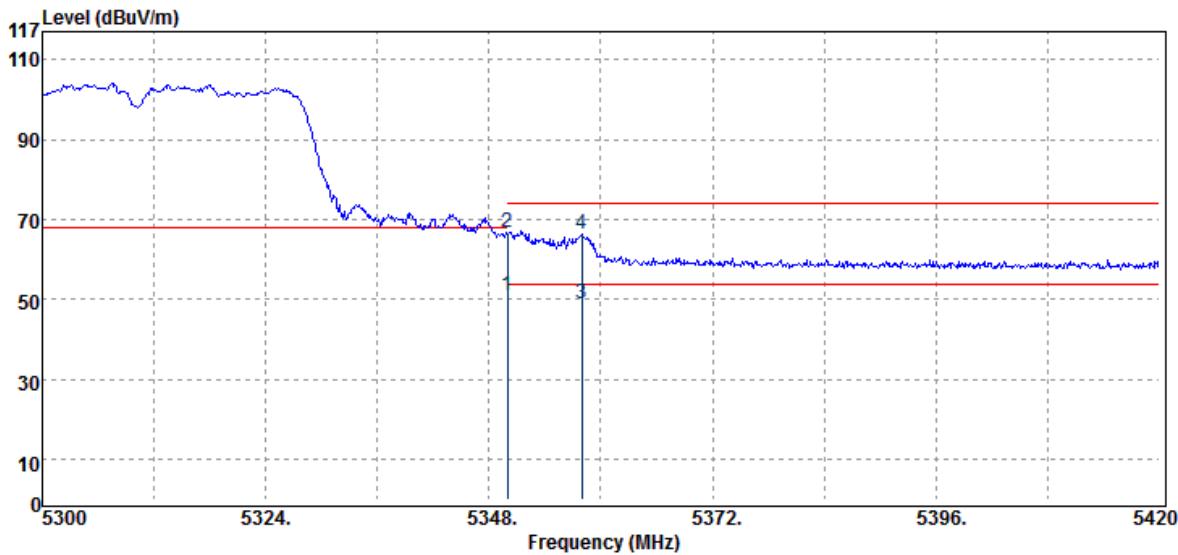
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	42.38	8.63	51.01	54.00	-2.99
5350.00	Peak	58.37	8.63	67.00	74.00	-7.00
5357.96	Average	40.27	8.65	48.92	54.00	-5.08
5357.96	Peak	57.79	8.65	66.44	74.00	-7.56

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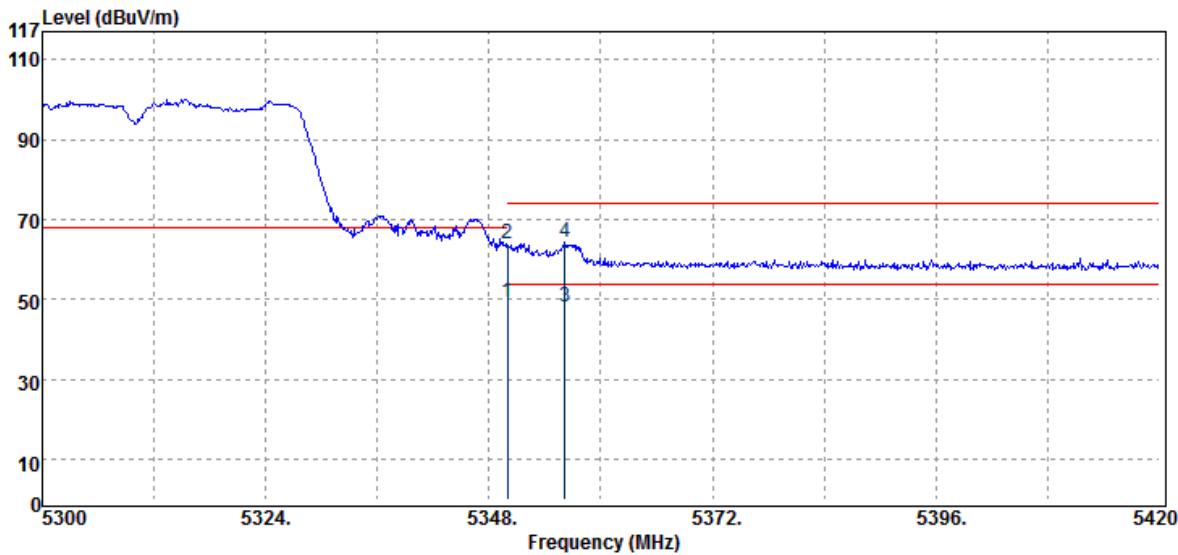
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Operation Band :802.11n40B2  
 Fundamental Frequency :5310 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	40.56	8.63	49.19	54.00	-4.81
5350.00	Peak	55.16	8.63	63.79	74.00	-10.21
5356.16	Average	39.56	8.64	48.20	54.00	-5.80
5356.16	Peak	55.78	8.64	64.42	74.00	-9.58

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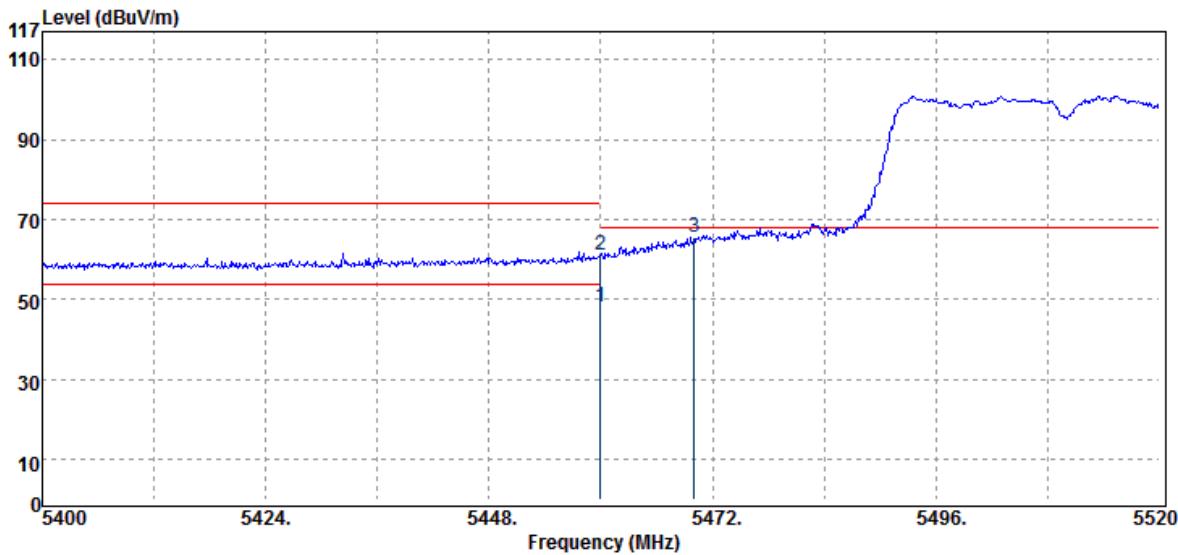
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Operation Band :802.11n40B3  
Fundamental Frequency :5510 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	39.26	8.75	48.01	54.00	-5.99
5460.00	Peak	52.41	8.75	61.16	74.00	-12.84
5470.00	Peak	56.67	8.74	65.41	68.20	-2.79

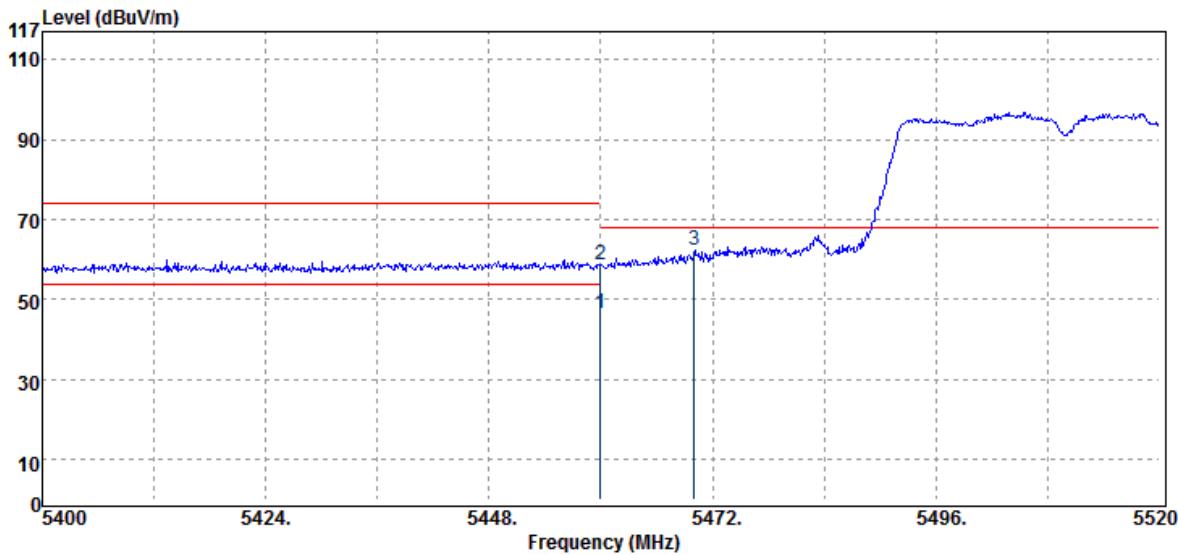
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Operation Band :802.11n40B3  
 Fundamental Frequency :5510 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi.  
 Engineer :Wei  
 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	37.93	8.75	46.68	54.00	-7.32
5460.00	Peak	50.11	8.75	58.86	74.00	-15.14
5470.00	Peak	53.54	8.74	62.28	68.20	-5.92

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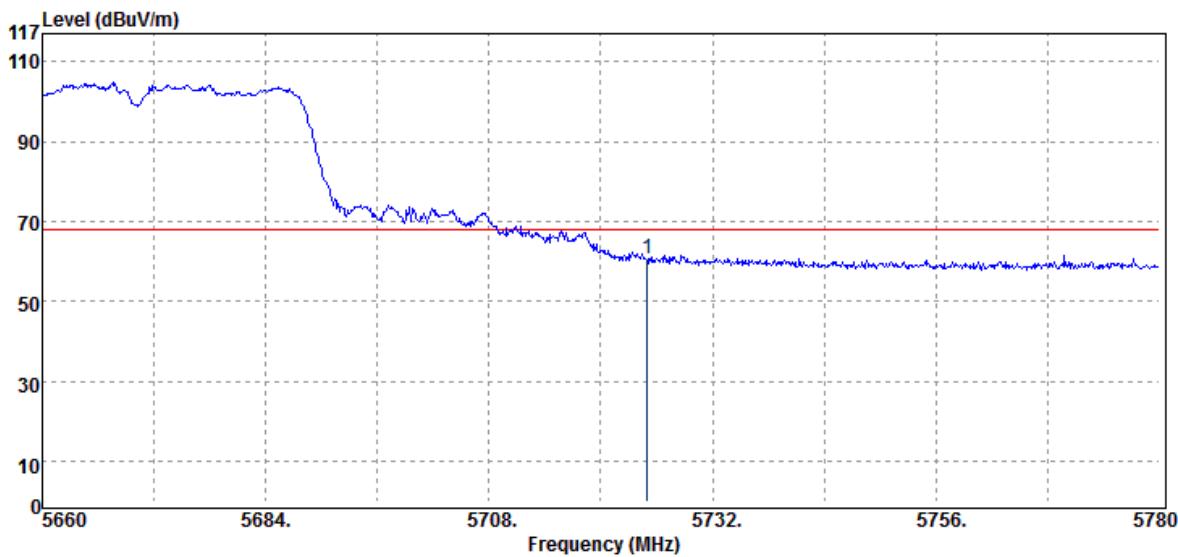
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Operation Band :802.11n40B3  
Fundamental Frequency :5670 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	51.23	9.44	60.67	68.20	-7.53

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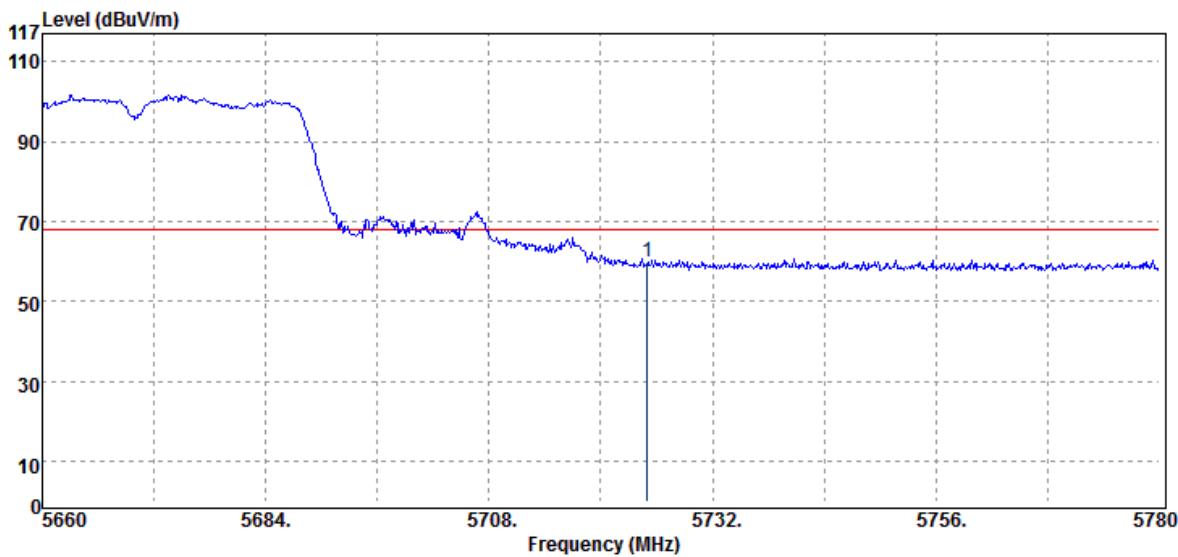
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Operation Band :802.11n40B3  
Fundamental Frequency :5670 MHz  
Operation Mode :Bandedge CH HIGH  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	50.53	9.44	59.97	68.20	-8.23

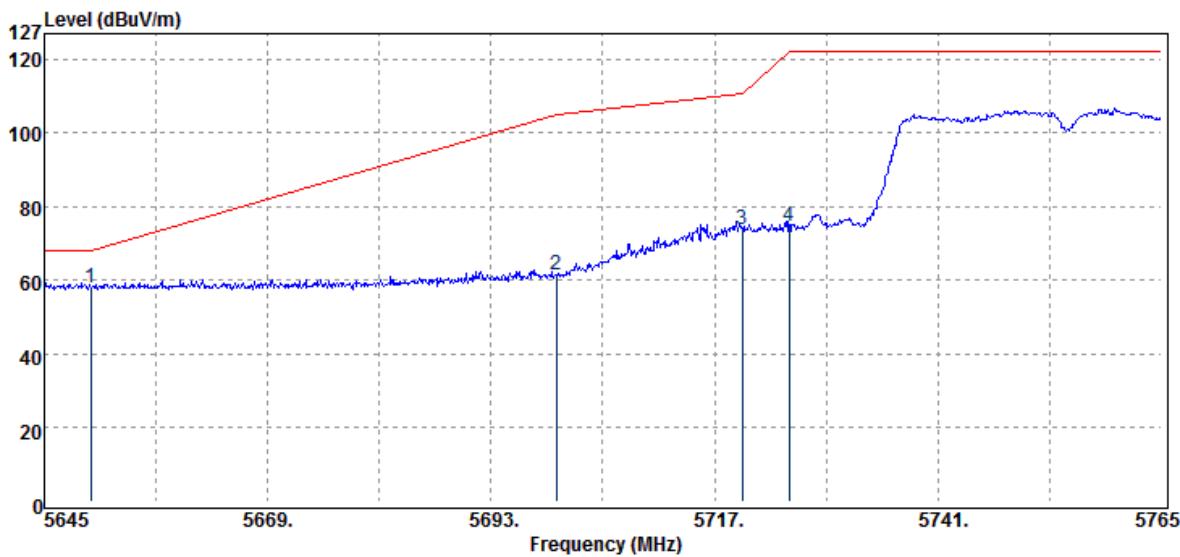
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Operation Band :802.11n40B4  
 Fundamental Frequency :5755 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	48.72	9.20	57.92	68.23	-10.31
5700.00	Peak	52.13	9.35	61.48	105.23	-43.75
5720.00	Peak	64.42	9.43	73.85	110.83	-36.98
5725.00	Peak	65.16	9.44	74.60	122.23	-47.63

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

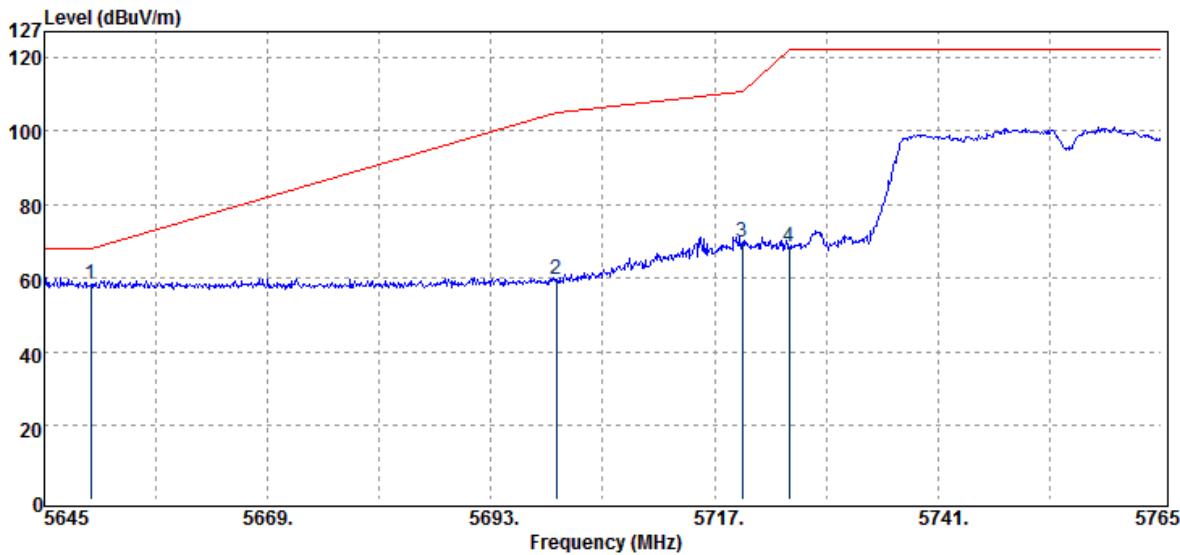
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Operation Band :802.11n40B4  
Fundamental Frequency :5755 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
5650.00	Peak	49.12	9.20	58.32	68.23	-9.91
5700.00	Peak	50.31	9.35	59.66	105.23	-45.57
5720.00	Peak	60.28	9.43	69.71	110.83	-41.12
5725.00	Peak	59.18	9.44	68.62	122.23	-53.61

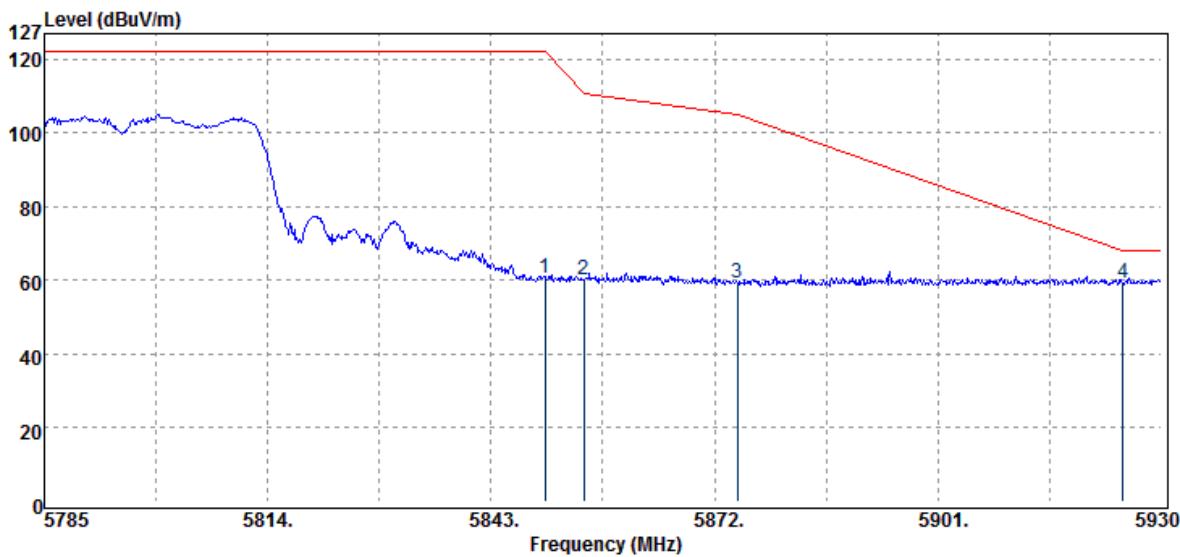
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Operation Band :802.11n40B4  
 Fundamental Frequency :5795 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	50.80	9.77	60.57	122.23	-61.66
5855.00	Peak	50.34	9.78	60.12	110.83	-50.71
5875.00	Peak	49.55	9.82	59.37	105.23	-45.86
5925.00	Peak	49.32	9.98	59.30	68.23	-8.93

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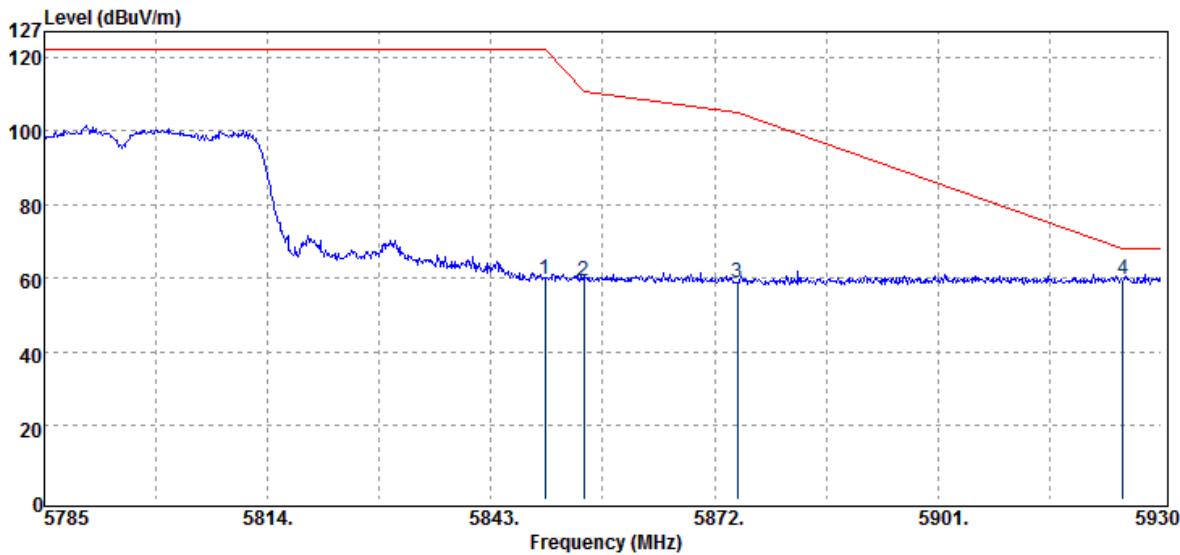
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Operation Band :802.11n40B4  
 Fundamental Frequency :5795 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	50.15	9.77	59.92	122.23	-62.31
5855.00	Peak	49.72	9.78	59.50	110.83	-51.33
5875.00	Peak	49.01	9.82	58.83	105.23	-46.40
5925.00	Peak	49.67	9.98	59.65	68.23	-8.58

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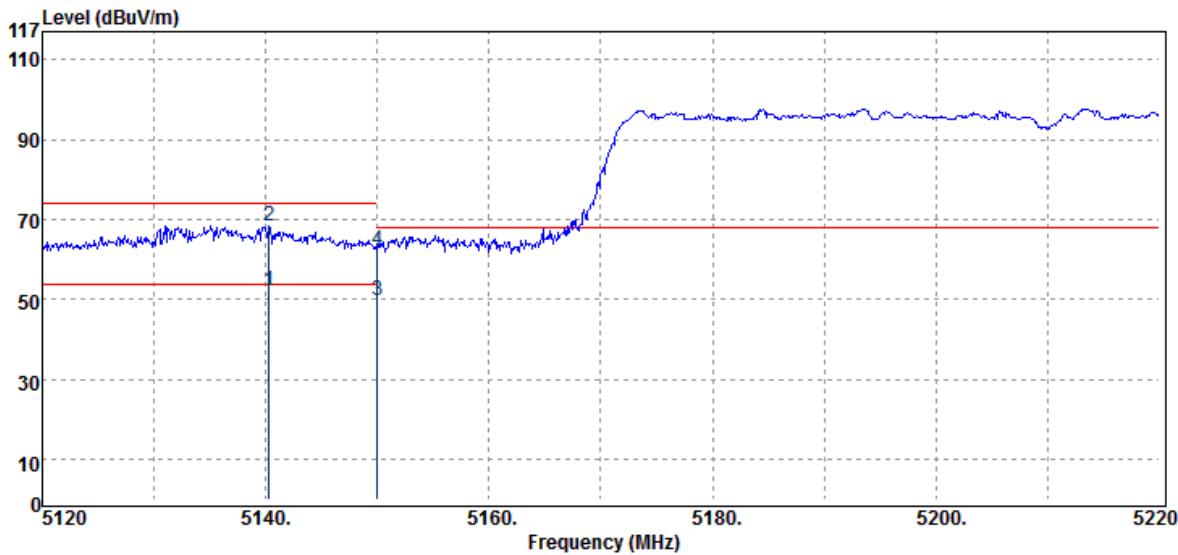
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**802.11ac80 VHT mode**

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

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5140.30	Average	43.86	8.30	52.16	54.00	-1.84
5140.30	Peak	60.26	8.30	68.56	74.00	-5.44
5150.00	Average	41.66	8.32	49.98	54.00	-4.02
5150.00	Peak	54.20	8.32	62.52	74.00	-11.48

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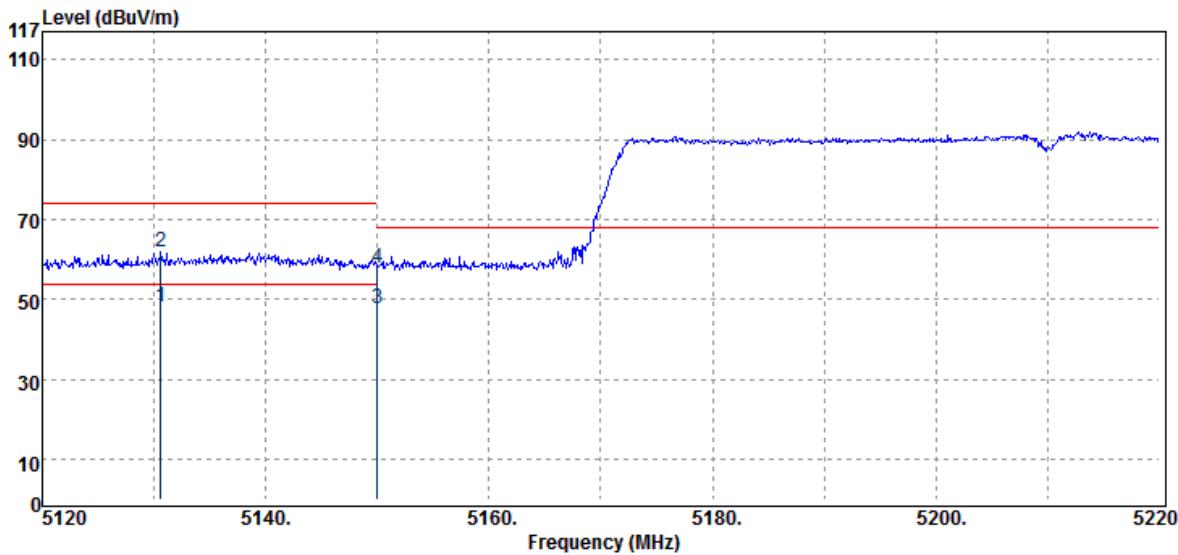
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Operation Band :802.11ac80B1  
Fundamental Frequency :5210 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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
5130.60	Average	39.71	8.27	47.98	54.00	-6.02
5130.60	Peak	53.81	8.27	62.08	74.00	-11.92
5150.00	Average	39.31	8.32	47.63	54.00	-6.37
5150.00	Peak	49.46	8.32	57.78	74.00	-16.22

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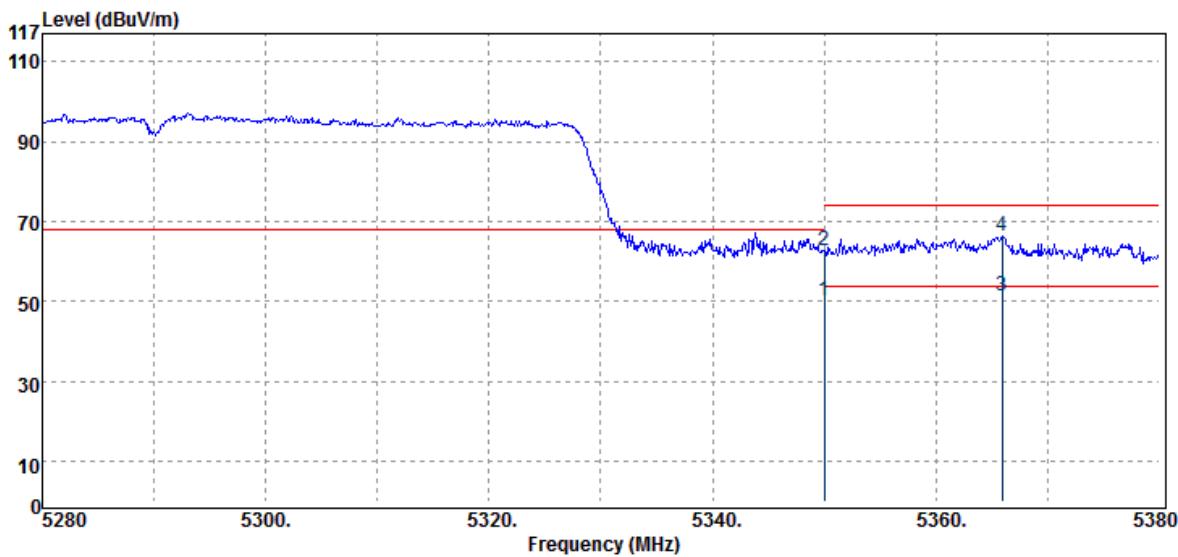
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Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	41.75	8.63	50.38	54.00	-3.62
5350.00	Peak	54.00	8.63	62.63	74.00	-11.37
5365.90	Average	42.97	8.64	51.61	54.00	-2.39
5365.90	Peak	57.78	8.64	66.42	74.00	-7.58

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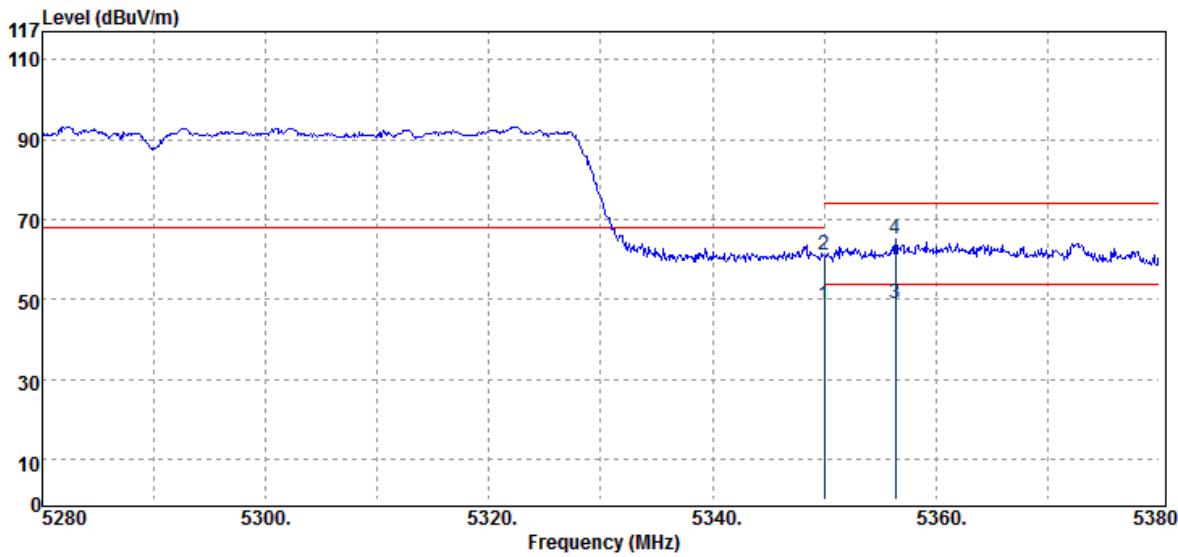
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Operation Band :802.11ac80B2  
 Fundamental Frequency :5290 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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	39.85	8.63	48.48	54.00	-5.52
5350.00	Peak	52.36	8.63	60.99	74.00	-13.01
5356.40	Average	40.35	8.64	48.99	54.00	-5.01
5356.40	Peak	56.59	8.64	65.23	74.00	-8.77

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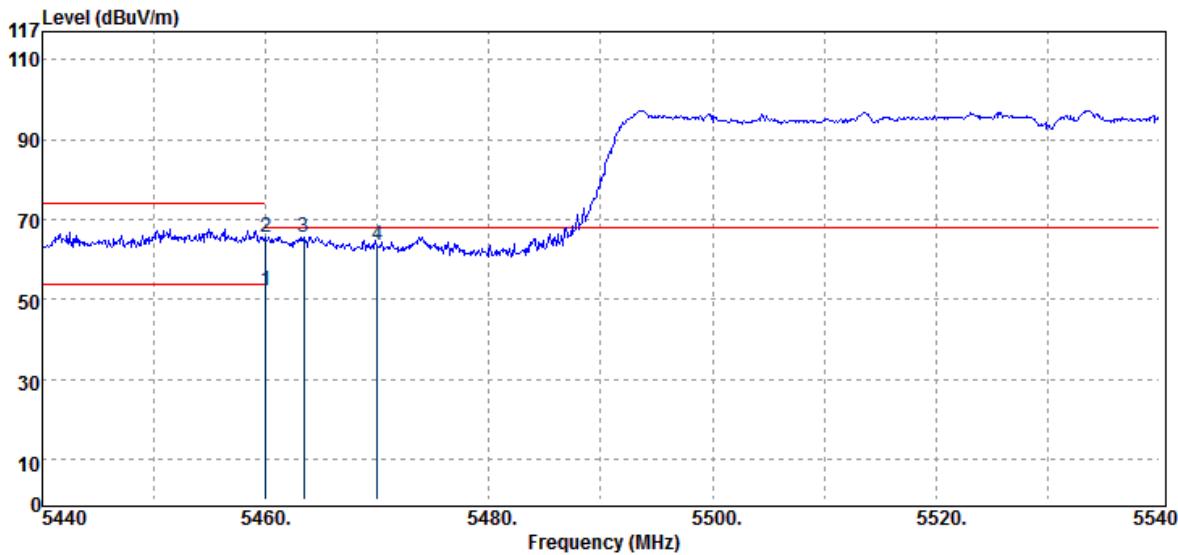
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Operation Band :802.11ac80B3  
Fundamental Frequency :5530 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	43.40	8.75	52.15	54.00	-1.85
5460.00	Peak	56.65	8.75	65.40	74.00	-8.60
5463.40	Peak	57.03	8.74	65.77	68.20	-2.43
5470.00	Peak	54.80	8.74	63.54	68.20	-4.66

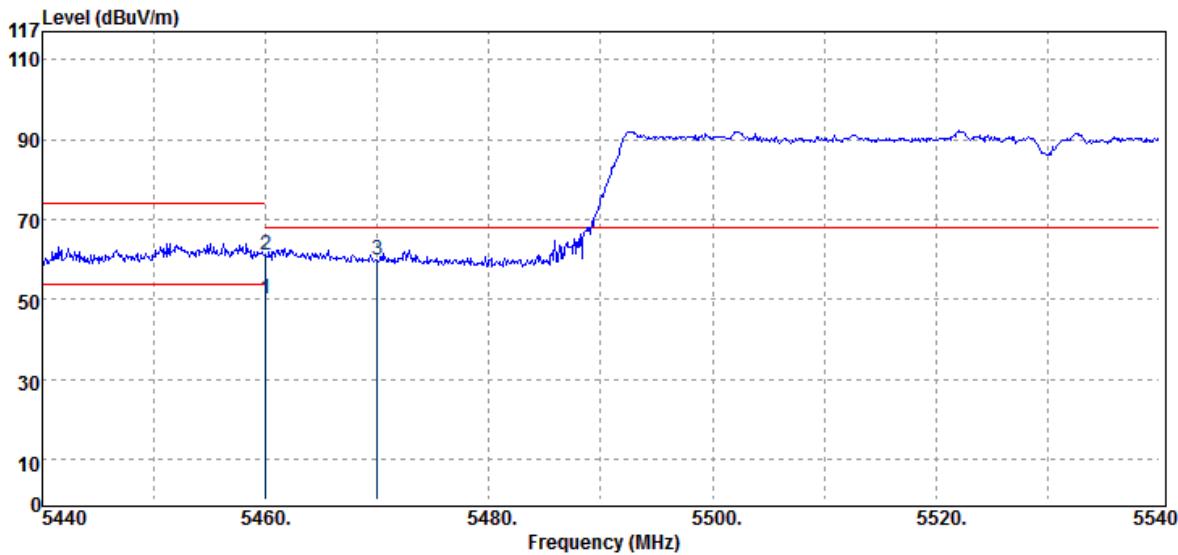
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Operation Band :802.11ac80B3  
Fundamental Frequency :5530 MHz  
Operation Mode :Bandedge CH LOW  
EUT Pol. :E2 Plane

Test Date :2018-09-07  
Temp./Humi. :23 deg\_C / 62 RH  
Engineer :Wei  
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	41.45	8.75	50.20	54.00	-3.80
5460.00	Peak	52.55	8.75	61.30	74.00	-12.70
5470.00	Peak	51.26	8.74	60.00	68.20	-8.20

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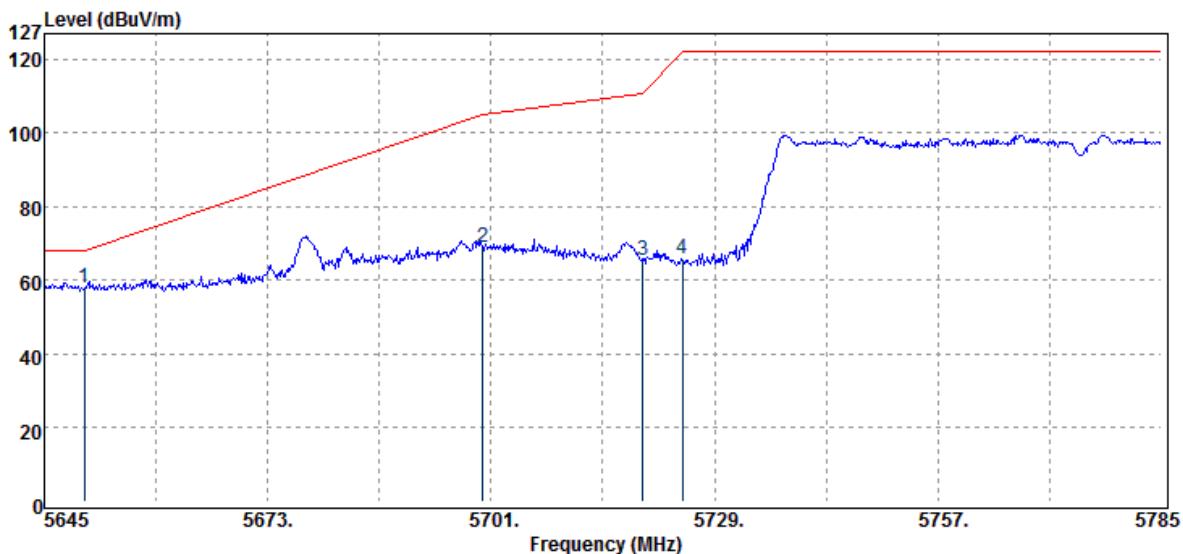
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Operation Band :802.11ac80B4  
 Fundamental Frequency :5775 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	48.83	9.20	58.03	68.23	-10.20
5700.00	Peak	59.80	9.35	69.15	105.23	-36.08
5720.00	Peak	56.25	9.43	65.68	110.83	-45.15
5725.00	Peak	56.64	9.44	66.08	122.23	-56.15

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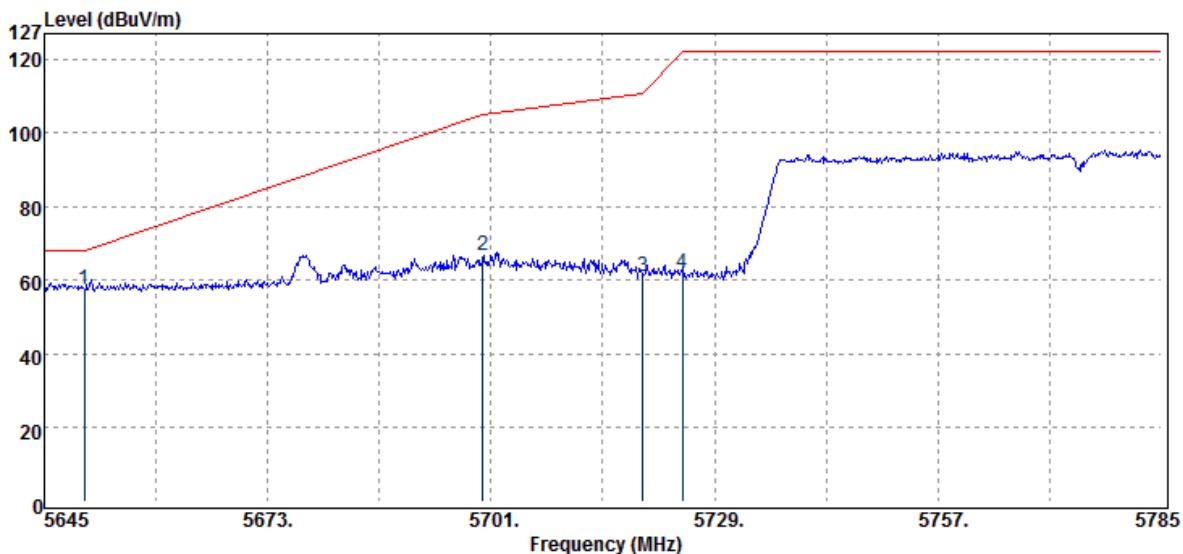
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Operation Band :802.11ac80B4  
 Fundamental Frequency :5775 MHz  
 Operation Mode :Bandedge CH LOW  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5650.00	Peak	48.43	9.20	57.63	68.23	-10.60
5700.00	Peak	57.48	9.35	66.83	105.23	-38.40
5720.00	Peak	51.80	9.43	61.23	110.83	-49.60
5725.00	Peak	52.69	9.44	62.13	122.23	-60.10

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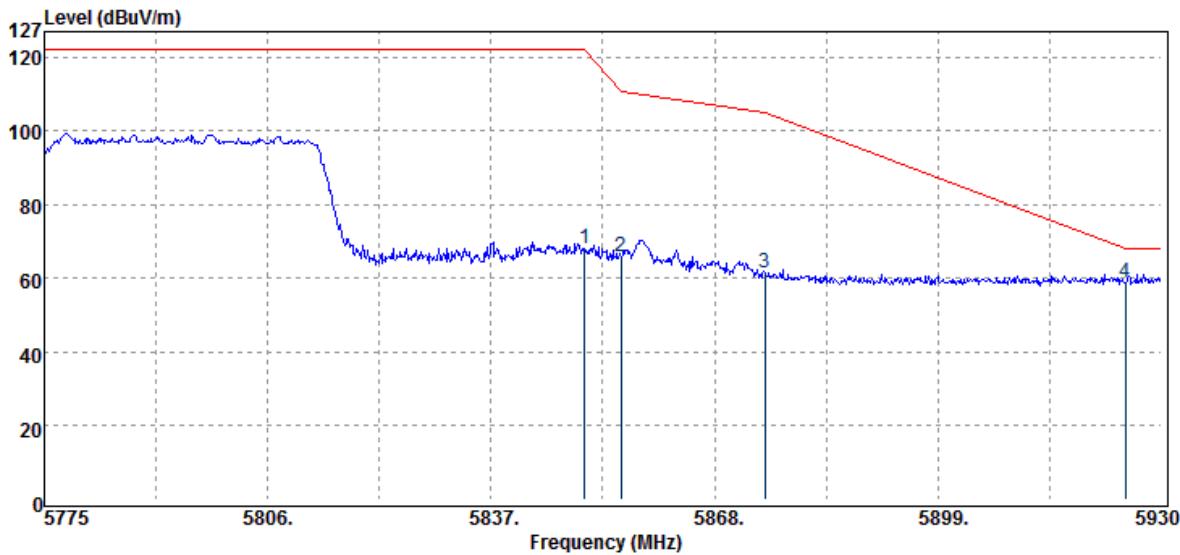
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Operation Band :802.11ac80B4  
 Fundamental Frequency :5775 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	58.43	9.77	68.20	122.23	-54.03
5855.00	Peak	55.99	9.78	65.77	110.83	-45.06
5875.00	Peak	51.90	9.82	61.72	105.23	-43.51
5925.00	Peak	48.91	9.98	58.89	68.23	-9.34

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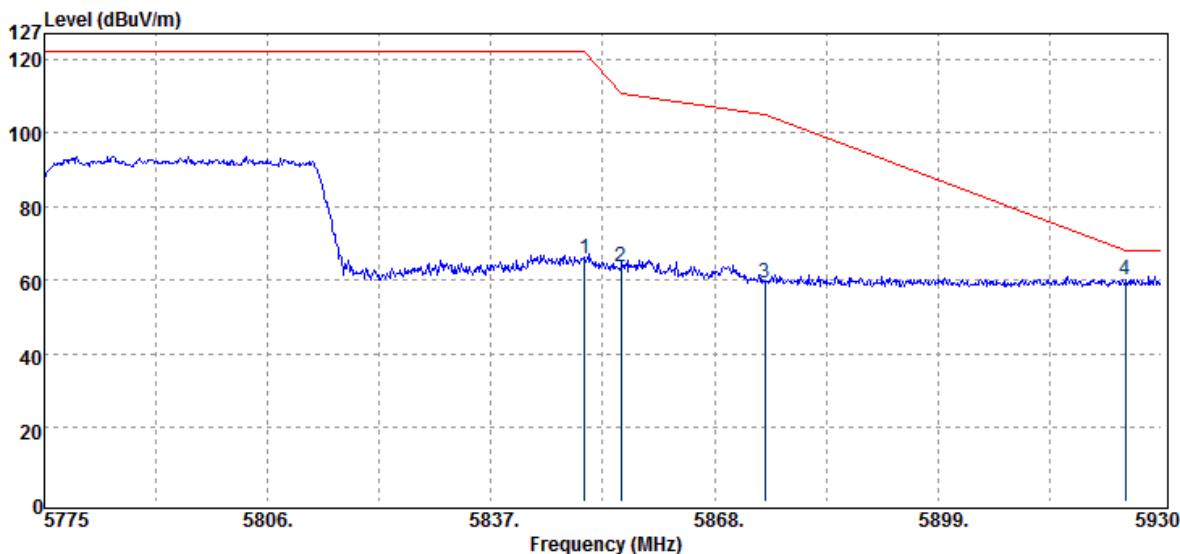
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Operation Band :802.11ac80B4  
 Fundamental Frequency :5775 MHz  
 Operation Mode :Bandedge CH HIGH  
 EUT Pol. :E2 Plane

Test Date :2018-09-07  
 Temp./Humi. :23 deg\_C / 62 RH  
 Engineer :Wei  
 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
5850.00	Peak	56.05	9.77	65.82	122.23	-56.41
5855.00	Peak	53.99	9.78	63.77	110.83	-47.06
5875.00	Peak	49.39	9.82	59.21	105.23	-46.02
5925.00	Peak	50.10	9.98	60.08	68.23	-8.15

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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

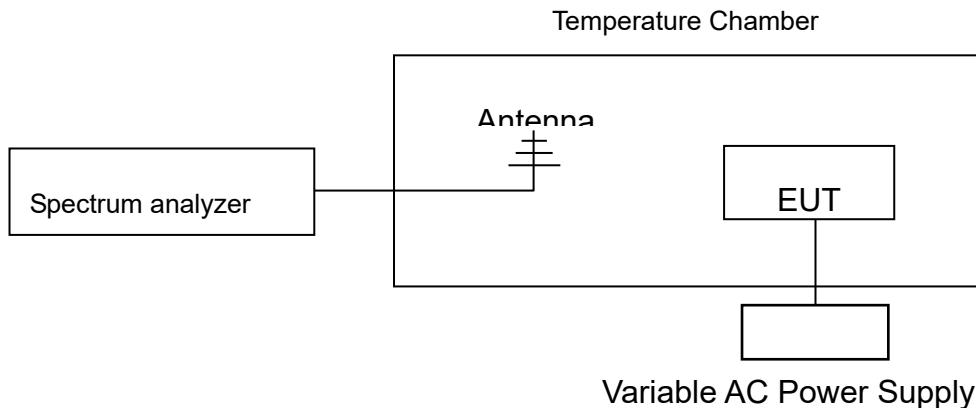
### 13.1 Standard Applicable

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



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### 13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV-30	101398	2017/10/19	2018/10/18
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27
Temperature Chamber	TERCHY	MHG-120LF	911009	2018/05/18	2019/05/17
Attenuator	Mini-Circuit	BW-S10W2+	2	2018/01/02	2019/01/01
DC Block	Mini-Circuits	BLK-18-S+	1	2018/01/02	2019/01/01
Coaxial Cables	N/A	WK CE Cable	N/A	2018/01/02	2019/01/01
Notebook	Lenovo	L430	R9-WGNK5	N/A	N/A

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## 13.5 Measurement Result

**SISO**

**Startup:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	140	5700	5,700.00160	-0.00000028
	3V	140	5700	5,700.00824	-0.00000144
25 °C	3.3V	140	5700	5,699.99005	0.00000175
55 °C	3.6V	140	5700	5,699.99739	0.00000046
	3V	140	5700	5,699.99947	0.00000009

Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,190.00622	-0.00000120
		62	5310	5,309.99075	0.00000174
		102	5510	5,509.99906	0.00000017
	3V	38	5190	5,190.00732	-0.00000141
		62	5310	5,310.00290	-0.00000055
		102	5510	5,510.00454	-0.00000082
25 °C	3.3V	38	5190	5,189.99150	0.00000164
		62	5310	5,310.00289	-0.00000054
		102	5510	5,510.00937	-0.00000170
55 °C	3.6V	38	5190	5,189.99985	0.00000003
		62	5310	5,309.99027	0.00000183
		102	5510	5,509.99173	0.00000150
	3V	38	5190	5,190.00124	-0.00000024
		62	5310	5,309.99331	0.00000126
		102	5510	5,510.00426	-0.00000077

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,209.99209	0.00000152
		58	5290	5,289.99291	0.00000134
	3V	42	5210	5,210.00930	-0.00000178
		58	5290	5,289.99159	0.00000159
25 °C	3.3V	42	5210	5,210.00809	-0.00000155
		58	5290	5,290.00628	-0.00000119
	3.6V	42	5210	5,210.00638	-0.00000122
		58	5290	5,289.99269	0.00000138
55 °C	3V	42	5210	5,209.99872	0.00000025
		58	5290	5,289.99354	0.00000122

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**2 Minutes:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	140	5700	5,699.99449	0.00000097
	3V	140	5700	5,700.00743	-0.00000130
25 °C	3.3V	140	5700	5,700.00617	-0.00000108
55 °C	3.6V	140	5700	5,700.00992	-0.00000174
	3V	140	5700	5,700.00342	-0.00000060

Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,190.00933	-0.00000180
		62	5310	5,309.99147	0.00000161
		102	5510	5,509.99921	0.00000014
	3V	38	5190	5,189.99861	0.00000027
		62	5310	5,310.00591	-0.00000111
		102	5510	5,509.99699	0.00000055
25 °C	3.3V	38	5190	5,189.99528	0.00000091
		62	5310	5,309.99557	0.00000083
		102	5510	5,509.99300	0.00000127
55 °C	3.6V	38	5190	5,189.99606	0.00000076
		62	5310	5,310.00320	-0.00000060
		102	5510	5,510.00721	-0.00000131
	3V	38	5190	5,189.99977	0.00000005
		62	5310	5,309.99742	0.00000049
		102	5510	5,509.99461	0.00000098

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,210.00179	-0.00000034
		58	5290	5,290.00281	-0.00000053
	3V	42	5210	5,209.99758	0.00000046
		58	5290	5,289.99665	0.00000063
25 °C	3.3V	42	5210	5,209.99981	0.00000004
		58	5290	5,290.00014	-0.00000003
55 °C	3.6V	42	5210	5,210.00963	-0.00000185
		58	5290	5,289.99787	0.00000040
	3V	42	5210	5,209.99312	0.00000132
		58	5290	5,289.99999	0.00000000

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## 5 Miuntes:

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	140	5700	5,700.00294	-0.00000052
	3V	140	5700	5,700.00738	-0.00000129
25 °C	3.3V	140	5700	5,699.99924	0.00000013
55 °C	3.6V	140	5700	5,699.99997	0.00000000
	3V	140	5700	5,699.99536	0.00000081

Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,189.99841	0.00000031
		62	5310	5,309.99017	0.00000185
		102	5510	5,510.00613	-0.00000111
	3V	38	5190	5,190.00694	-0.00000134
		62	5310	5,310.00444	-0.00000084
		102	5510	5,509.99614	0.00000070
25 °C	3.3V	38	5190	5,190.00045	-0.00000009
		62	5310	5,309.99241	0.00000143
		102	5510	5,509.99178	0.00000149
55 °C	3.6V	38	5190	5,189.99114	0.00000171
		62	5310	5,309.99111	0.00000167
		102	5510	5,510.00596	-0.00000108
	3V	38	5190	5,189.99854	0.00000028
		62	5310	5,310.00137	-0.00000026
		102	5510	5,509.99266	0.00000133

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,209.99118	0.00000169
		58	5290	5,290.00519	-0.00000098
	3V	42	5210	5,210.00102	-0.00000020
		58	5290	5,289.99983	0.00000003
25 °C	3.3V	42	5210	5,210.00899	-0.00000173
		58	5290	5,290.00255	-0.00000048
55 °C	3.6V	42	5210	5,209.99293	0.00000136
		58	5290	5,290.00243	-0.00000046
	3V	42	5210	5,209.99237	0.00000147
		58	5290	5,290.00472	-0.00000089

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**10 Minutes:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	140	5700	5,699.99657	0.00000060
	3V	140	5700	5,700.00178	-0.00000031
25 °C	3.3V	140	5700	5,699.99058	0.00000165
55 °C	3.6V	140	5700	5,699.99406	0.00000104
	3V	140	5700	5,700.00683	-0.00000120

Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,189.99661	0.00000065
		62	5310	5,310.00447	-0.00000084
		102	5510	5,509.99788	0.00000038
	3V	38	5190	5,189.99448	0.00000106
		62	5310	5,310.00198	-0.00000037
		102	5510	5,510.00790	-0.00000143
25 °C	3.3V	38	5190	5,190.00513	-0.00000099
		62	5310	5,309.99803	0.00000037
		102	5510	5,509.99885	0.00000021
55 °C	3.6V	38	5190	5,190.00489	-0.00000094
		62	5310	5,309.99330	0.00000126
		102	5510	5,509.99066	0.00000170
	3V	38	5190	5,190.00769	-0.00000148
		62	5310	5,310.00737	-0.00000139
		102	5510	5,510.00845	-0.00000153

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,210.00114	-0.00000022
		58	5290	5,290.00422	-0.00000080
	3V	42	5210	5,209.99492	0.00000097
		58	5290	5,289.99039	0.00000182
25 °C	3.3V	42	5210	5,210.00869	-0.00000167
		58	5290	5,290.00158	-0.00000030
55 °C	3.6V	42	5210	5,210.00363	-0.00000070
		58	5290	5,290.00494	-0.00000093
	3V	42	5210	5,210.00536	-0.00000103
		58	5290	5,290.00943	-0.00000178

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**MIMO****Startup:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	36	5180	5,179.99393	0.00000117
		44	5220	5,220.00586	-0.00000112
		48	5240	5,239.99686	0.00000060
		52	5260	5,259.99197	0.00000153
		60	5300	5,300.00135	-0.00000025
		64	5320	5,320.00821	-0.00000154
		100	5500	5,500.00679	-0.00000123
		116	5580	5,580.00999	-0.00000179
		140	5700	5,699.99932	0.00000012
		144	5720	5,720.00557	-0.00000097
		149	5745	5,745.00228	-0.00000040
		157	5785	5,784.99005	0.00000172
		165	5825	5,825.00332	-0.00000057
	3V	36	5180	5,180.00359	-0.00000069
		44	5220	5,219.99279	0.00000138
		48	5240	5,239.99891	0.00000021
		52	5260	5,260.00869	-0.00000165
		60	5300	5,299.99092	0.00000171
		64	5320	5,320.00963	-0.00000181
		100	5500	5,499.99985	0.00000003
		116	5580	5,580.00054	-0.00000010
		140	5700	5,700.00163	-0.00000029
		144	5720	5,719.99421	0.00000101
		149	5745	5,744.99463	0.00000093
		157	5785	5,785.00144	-0.00000025
		165	5825	5,824.99158	0.00000145

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25 °C	3.3V	36	5180	5,179.99812	0.00000036
		44	5220	5,220.00008	-0.00000001
		48	5240	5,240.00645	-0.00000123
		52	5260	5,259.99886	0.00000022
		60	5300	5,300.00506	-0.00000095
		64	5320	5,319.99943	0.00000011
		100	5500	5,499.99738	0.00000048
		116	5580	5,579.99041	0.00000172
		140	5700	5,699.99435	0.00000099
		144	5720	5,720.00023	-0.00000004
		149	5745	5,744.99559	0.00000077
		157	5785	5,784.99737	0.00000045
		165	5825	5,825.00364	-0.00000063
		36	5180	5,179.99443	0.00000108
		44	5220	5,219.99903	0.00000019
		48	5240	5,240.00822	-0.00000157
55 °C	3.6V	52	5260	5,259.99062	0.00000178
		60	5300	5,299.99637	0.00000068
		64	5320	5,319.99370	0.00000118
		100	5500	5,500.00216	-0.00000039
		116	5580	5,580.00215	-0.00000039
		140	5700	5,699.99415	0.00000103
		144	5720	5,720.00821	-0.00000144
		149	5745	5,745.00885	-0.00000154
		157	5785	5,784.99482	0.00000089
		165	5825	5,825.00693	-0.00000119
		36	5180	5,180.00079	-0.00000015
		44	5220	5,219.99496	0.00000097
		48	5240	5,239.99677	0.00000062
		52	5260	5,259.99353	0.00000123
		60	5300	5,299.99863	0.00000026
55 °C	3V	64	5320	5,320.00588	-0.00000111
		100	5500	5,500.00797	-0.00000145
		116	5580	5,579.99098	0.00000162
		140	5700	5,699.99448	0.00000097
		144	5720	5,720.00001	0.00000000
		149	5745	5,744.99984	0.00000003
		157	5785	5,784.99480	0.00000090
		165	5825	5,824.99600	0.00000069

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Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,189.99839	0.00000031
		46	5230	5,229.99897	0.00000020
		54	5270	5,270.00157	-0.00000030
		62	5310	5,310.00949	-0.00000179
		102	5510	5,509.99848	0.00000028
		110	5550	5,550.00873	-0.00000157
		134	5670	5,669.99854	0.00000026
		142	5710	5,709.99500	0.00000087
		151	5755	5,755.00468	-0.00000081
		159	5795	5,794.99563	0.00000075
	3V	38	5190	5,190.00879	-0.00000169
		46	5230	5,229.99059	0.00000180
		54	5270	5,269.99118	0.00000167
		62	5310	5,310.00132	-0.00000025
		102	5510	5,510.00259	-0.00000047
		110	5550	5,549.99500	0.00000090
		134	5670	5,669.99565	0.00000077
		142	5710	5,709.99246	0.00000132
		151	5755	5,755.00353	-0.00000061
		159	5795	5,795.00413	-0.00000071

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25 °C	3.3V	38	5190	5,190.00565	-0.00000109
		46	5230	5,230.00640	-0.00000122
		54	5270	5,269.99002	0.00000189
		62	5310	5,310.00633	-0.00000119
		102	5510	5,510.00867	-0.00000157
		110	5550	5,549.99753	0.00000045
		134	5670	5,670.00181	-0.00000032
		142	5710	5,710.00443	-0.00000077
		151	5755	5,754.99072	0.00000161
		159	5795	5,794.99415	0.00000101
55 °C	3.6V	38	5190	5,189.99044	0.00000184
		46	5230	5,230.00911	-0.00000174
		54	5270	5,270.00249	-0.00000047
		62	5310	5,309.99875	0.00000023
		102	5510	5,509.99869	0.00000024
		110	5550	5,550.00807	-0.00000145
		134	5670	5,669.99129	0.00000154
		142	5710	5,710.00882	-0.00000154
		151	5755	5,755.00392	-0.00000068
		159	5795	5,795.00333	-0.00000057
55 °C	3V	38	5190	5,190.00533	-0.00000103
		46	5230	5,230.00020	-0.00000004
		54	5270	5,270.00333	-0.00000063
		62	5310	5,309.99827	0.00000033
		102	5510	5,510.00005	-0.00000001
		110	5550	5,549.99636	0.00000066
		134	5670	5,669.99695	0.00000054
		142	5710	5,710.00673	-0.00000118
		151	5755	5,754.99377	0.00000108
		159	5795	5,794.99657	0.00000059

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,209.99154	0.00000162
		58	5290	5,289.99247	0.00000142
		106	5530	5,530.00518	-0.00000094
		122	5610	5,610.00654	-0.00000117
		138	5690	5,690.00953	-0.00000168
		155	5775	5,775.00993	-0.00000172
	3V	42	5210	5,210.00148	-0.00000028
		58	5290	5,290.00605	-0.00000114
		106	5530	5,529.99999	0.00000000
		122	5610	5,610.00758	-0.00000135
		138	5690	5,690.00751	-0.00000132
		155	5775	5,774.99429	0.00000099
25 °C	3.3V	42	5210	5,210.00473	-0.00000091
		58	5290	5,290.00524	-0.00000099
		106	5530	5,530.00411	-0.00000074
		122	5610	5,609.99304	0.00000124
		138	5690	5,690.00529	-0.00000093
		155	5775	5,774.99100	0.00000156
55 °C	3.6V	42	5210	5,209.99848	0.00000029
		58	5290	5,290.00576	-0.00000109
		106	5530	5,530.00023	-0.00000004
		122	5610	5,609.99367	0.00000113
		138	5690	5,689.99451	0.00000097
		155	5775	5,774.99506	0.00000086
	3V	42	5210	5,209.99490	0.00000098
		58	5290	5,290.00604	-0.00000114
		106	5530	5,530.00952	-0.00000172
		122	5610	5,609.99744	0.00000046
		138	5690	5,689.99799	0.00000035
		155	5775	5,774.99101	0.00000156

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**2 Minutes:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	36	5180	5,180.00091	-0.00000018
		44	5220	5,219.99672	0.00000063
		48	5240	5,240.00219	-0.00000042
		52	5260	5,259.99780	0.00000042
		60	5300	5,299.99383	0.000000116
		64	5320	5,320.00783	-0.000000147
		100	5500	5,499.99781	0.00000040
		116	5580	5,580.00543	-0.00000097
		140	5700	5,700.00508	-0.00000089
		144	5720	5,719.99490	0.00000089
		149	5745	5,745.00657	-0.00000114
		157	5785	5,785.00166	-0.00000029
		165	5825	5,824.99439	0.00000096
	3V	36	5180	5,180.00264	-0.00000051
		44	5220	5,220.00586	-0.00000112
		48	5240	5,240.00062	-0.00000012
		52	5260	5,260.00962	-0.00000183
		60	5300	5,300.00488	-0.00000092
		64	5320	5,320.00892	-0.00000168
		100	5500	5,500.00751	-0.00000137
		116	5580	5,579.99087	0.00000164
		140	5700	5,699.99240	0.00000133
		144	5720	5,719.99428	0.00000100
		149	5745	5,745.00714	-0.00000124
		157	5785	5,785.00754	-0.00000130
		165	5825	5,825.00463	-0.00000079

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25 °C	3.3V	36	5180	5,180.00987	-0.00000190
		44	5220	5,219.99471	0.00000101
		48	5240	5,240.00905	-0.00000173
		52	5260	5,260.00636	-0.00000121
		60	5300	5,299.99408	0.00000112
		64	5320	5,319.99953	0.00000009
		100	5500	5,499.99415	0.00000106
		116	5580	5,580.00870	-0.00000156
		140	5700	5,699.99853	0.00000026
		144	5720	5,719.99480	0.00000091
		149	5745	5,745.00808	-0.00000141
		157	5785	5,785.00008	-0.00000001
		165	5825	5,825.00665	-0.00000114
		36	5180	5,180.00763	-0.00000147
		44	5220	5,219.99909	0.00000017
		48	5240	5,240.00481	-0.00000092
55 °C	3.6V	52	5260	5,260.00878	-0.00000167
		60	5300	5,299.99600	0.00000076
		64	5320	5,320.00782	-0.00000147
		100	5500	5,500.00932	-0.00000169
		116	5580	5,580.00466	-0.00000083
		140	5700	5,700.00048	-0.00000008
		144	5720	5,720.00916	-0.00000160
		149	5745	5,745.00638	-0.00000111
		157	5785	5,784.99193	0.00000139
		165	5825	5,824.99682	0.00000055
		36	5180	5,180.00561	-0.00000108
		44	5220	5,220.00119	-0.00000023
		48	5240	5,239.99910	0.00000017
		52	5260	5,259.99666	0.00000063
		60	5300	5,299.99488	0.00000097
55 °C	3V	64	5320	5,320.00775	-0.00000146
		100	5500	5,499.99492	0.00000092
		116	5580	5,580.00382	-0.00000068
		140	5700	5,700.00350	-0.00000061
		144	5720	5,719.9978	0.00000004
		149	5745	5,745.00976	-0.00000170
		157	5785	5,785.00389	-0.00000067
		165	5825	5,824.99842	0.00000027

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Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,189.99096	0.00000174
		46	5230	5,229.99558	0.00000085
		54	5270	5,270.00035	-0.00000007
		62	5310	5,309.99735	0.00000050
		102	5510	5,509.99882	0.00000021
		110	5550	5,549.99232	0.00000138
		134	5670	5,670.00939	-0.00000166
		142	5710	5,710.00664	-0.00000116
		151	5755	5,755.00802	-0.00000139
		159	5795	5,795.00912	-0.00000157
	3V	38	5190	5,190.00019	-0.00000004
		46	5230	5,230.00638	-0.00000122
		54	5270	5,269.99068	0.00000177
		62	5310	5,310.00352	-0.00000066
		102	5510	5,509.99374	0.00000114
		110	5550	5,549.99837	0.00000029
		134	5670	5,669.99782	0.00000038
		142	5710	5,709.99303	0.00000122
		151	5755	5,754.99198	0.00000139
		159	5795	5,795.00602	-0.00000104

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25 °C	3.3V	38	5190	5,190.00789	-0.00000152
		46	5230	5,229.99084	0.00000175
		54	5270	5,269.99346	0.00000124
		62	5310	5,310.00567	-0.00000107
		102	5510	5,510.00058	-0.00000010
		110	5550	5,550.00102	-0.00000018
		134	5670	5,669.9944	0.00000010
		142	5710	5,710.00593	-0.00000104
		151	5755	5,754.99803	0.00000034
		159	5795	5,794.99983	0.00000003
55 °C	3.6V	38	5190	5,190.00504	-0.00000097
		46	5230	5,229.99271	0.00000139
		54	5270	5,270.00628	-0.00000119
		62	5310	5,310.00027	-0.00000005
		102	5510	5,510.00248	-0.00000045
		110	5550	5,549.99139	0.00000155
		134	5670	5,670.00183	-0.00000032
		142	5710	5,709.99122	0.00000154
		151	5755	5,754.99514	0.00000084
		159	5795	5,794.99291	0.00000122
55 °C	3V	38	5190	5,190.00014	-0.00000003
		46	5230	5,229.99537	0.00000089
		54	5270	5,270.00900	-0.00000171
		62	5310	5,309.99775	0.00000042
		102	5510	5,509.99868	0.00000024
		110	5550	5,550.00371	-0.00000067
		134	5670	5,669.99361	0.00000113
		142	5710	5,710.00093	-0.00000016
		151	5755	5,754.99164	0.00000145
		159	5795	5,794.99384	0.00000106

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,209.99472	0.00000101
		58	5290	5,289.99608	0.00000074
		106	5530	5,529.99789	0.00000038
		122	5610	5,609.99339	0.00000118
		138	5690	5,690.00475	-0.00000084
		155	5775	5,775.00601	-0.00000104
	3V	42	5210	5,209.99283	0.00000138
		58	5290	5,289.99224	0.00000147
		106	5530	5,530.00854	-0.00000154
		122	5610	5,610.00719	-0.00000128
		138	5690	5,690.00225	-0.00000040
		155	5775	5,775.00509	-0.00000088
25 °C	3.3V	42	5210	5,209.99911	0.00000017
		58	5290	5,290.00522	-0.00000099
		106	5530	5,530.00465	-0.00000084
		122	5610	5,610.00970	-0.00000173
		138	5690	5,690.00277	-0.00000049
		155	5775	5,774.99254	0.00000129
55 °C	3.6V	42	5210	5,210.00853	-0.00000164
		58	5290	5,290.00608	-0.00000115
		106	5530	5,529.99695	0.00000055
		122	5610	5,610.00785	-0.00000140
		138	5690	5,690.00954	-0.00000168
		155	5775	5,775.00657	-0.00000114
	3V	42	5210	5,209.99873	0.00000024
		58	5290	5,290.00731	-0.00000138
		106	5530	5,529.99944	0.00000010
		122	5610	5,609.99539	0.00000082
		138	5690	5,690.00597	-0.00000105
		155	5775	5,774.99405	0.00000103

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**5 Minutes:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	36	5180	5,179.99137	0.00000167
		44	5220	5,220.00751	-0.00000144
		48	5240	5,240.00601	-0.00000115
		52	5260	5,260.00886	-0.00000168
		60	5300	5,299.99699	0.00000057
		64	5320	5,319.99024	0.00000184
		100	5500	5,499.99736	0.00000048
		116	5580	5,579.99789	0.00000038
		140	5700	5,699.99979	0.00000004
		144	5720	5,720.00539	-0.00000094
		149	5745	5,744.99421	0.00000101
		157	5785	5,785.00816	-0.00000141
		165	5825	5,825.00468	-0.00000080
	3V	36	5180	5,179.99981	0.00000004
		44	5220	5,219.99854	0.00000028
		48	5240	5,240.00794	-0.00000151
		52	5260	5,260.00175	-0.00000033
		60	5300	5,300.00768	-0.00000145
		64	5320	5,320.00093	-0.00000017
		100	5500	5,500.00176	-0.00000032
		116	5580	5,580.00846	-0.00000152
		140	5700	5,700.00576	-0.00000101
		144	5720	5,720.00497	-0.00000087
		149	5745	5,744.99619	0.00000066
		157	5785	5,784.99404	0.00000103
		165	5825	5,824.99334	0.00000114

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25 °C	3.3V	36	5180	5,180.00214	-0.00000041
		44	5220	5,219.99333	0.00000128
		48	5240	5,240.00504	-0.00000096
		52	5260	5,259.99509	0.00000093
		60	5300	5,300.00023	-0.00000004
		64	5320	5,320.00597	-0.00000112
		100	5500	5,500.00748	-0.00000136
		116	5580	5,580.00363	-0.00000065
		140	5700	5,700.00216	-0.00000038
		144	5720	5,719.99629	0.00000065
		149	5745	5,745.00273	-0.00000047
		157	5785	5,785.00778	-0.00000134
		165	5825	5,824.99637	0.00000062
		36	5180	5,180.00693	-0.00000134
		44	5220	5,220.00236	-0.00000045
		48	5240	5,240.00243	-0.00000046
55 °C	3.6V	52	5260	5,260.00494	-0.00000094
		60	5300	5,299.99632	0.00000069
		64	5320	5,320.00822	-0.00000155
		100	5500	5,500.00396	-0.00000072
		116	5580	5,579.99214	0.00000141
		140	5700	5,700.00832	-0.00000146
		144	5720	5,720.00139	-0.00000024
		149	5745	5,745.00390	-0.00000068
		157	5785	5,785.00190	-0.00000033
		165	5825	5,824.99283	0.00000123
		36	5180	5,179.99136	0.00000167
		44	5220	5,219.99160	0.00000161
		48	5240	5,239.99007	0.00000190
		52	5260	5,260.00253	-0.00000048
		60	5300	5,299.99108	0.00000168
55 °C	3V	64	5320	5,319.99915	0.00000016
		100	5500	5,499.99362	0.00000116
		116	5580	5,580.00956	-0.00000171
		140	5700	5,699.99821	0.00000031
		144	5720	5,720.00964	-0.00000168
		149	5745	5,744.99774	0.00000039
		157	5785	5,784.99063	0.00000162
		165	5825	5,824.99022	0.00000168

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Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,189.99026	0.00000188
		46	5230	5,229.99575	0.00000081
		54	5270	5,270.00454	-0.00000086
		62	5310	5,310.00471	-0.00000089
		102	5510	5,509.99810	0.00000035
		110	5550	5,550.00217	-0.00000039
		134	5670	5,670.00924	-0.00000163
		142	5710	5,709.99433	0.00000099
		151	5755	5,755.00080	-0.00000014
		159	5795	5,794.99787	0.00000037
	3V	38	5190	5,190.00090	-0.00000017
		46	5230	5,230.00136	-0.00000026
		54	5270	5,269.99082	0.00000174
		62	5310	5,310.00160	-0.00000030
		102	5510	5,509.99022	0.00000178
		110	5550	5,549.99597	0.00000073
		134	5670	5,669.99235	0.00000135
		142	5710	5,709.99369	0.00000111
		151	5755	5,754.99904	0.00000017
		159	5795	5,795.00295	-0.00000051

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25 °C	3.3V	38	5190	5,190.00611	-0.00000118
		46	5230	5,229.99805	0.00000037
		54	5270	5,269.99279	0.00000137
		62	5310	5,309.99263	0.00000139
		102	5510	5,510.00677	-0.00000123
		110	5550	5,549.99981	0.00000003
		134	5670	5,670.00940	-0.00000166
		142	5710	5,710.00014	-0.00000002
		151	5755	5,754.99259	0.00000129
		159	5795	5,794.99177	0.00000142
55 °C	3.6V	38	5190	5,189.99838	0.00000031
		46	5230	5,229.99496	0.00000096
		54	5270	5,270.00299	-0.00000057
		62	5310	5,310.00644	-0.00000121
		102	5510	5,509.99085	0.00000166
		110	5550	5,549.99083	0.00000165
		134	5670	5,670.00756	-0.00000133
		142	5710	5,710.00670	-0.00000117
		151	5755	5,755.00951	-0.00000165
		159	5795	5,794.99615	0.00000066
55 °C	3V	38	5190	5,189.99566	0.00000084
		46	5230	5,229.99708	0.00000056
		54	5270	5,270.00853	-0.00000162
		62	5310	5,310.00442	-0.00000083
		102	5510	5,509.99436	0.00000102
		110	5550	5,550.00981	-0.00000177
		134	5670	5,669.99869	0.00000023
		142	5710	5,710.00555	-0.00000097
		151	5755	5,754.99530	0.00000082
		159	5795	5,795.00696	-0.00000120

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,209.99131	0.00000167
		58	5290	5,289.99580	0.00000079
		106	5530	5,529.99181	0.00000148
		122	5610	5,609.99889	0.00000020
		138	5690	5,689.99227	0.00000136
		155	5775	5,774.99450	0.00000095
	3V	42	5210	5,209.99238	0.00000146
		58	5290	5,290.00116	-0.00000022
		106	5530	5,530.00885	-0.00000160
		122	5610	5,609.99478	0.00000093
		138	5690	5,689.99434	0.00000099
		155	5775	5,775.00434	-0.00000075
25 °C	3.3V	42	5210	5,210.00160	-0.00000031
		58	5290	5,289.99718	0.00000053
		106	5530	5,530.00830	-0.00000150
		122	5610	5,610.00313	-0.00000056
		138	5690	5,690.00641	-0.00000113
		155	5775	5,775.00972	-0.00000168
	3.6V	42	5210	5,209.99339	0.00000127
		58	5290	5,290.00834	-0.00000158
		106	5530	5,530.00313	-0.00000057
		122	5610	5,609.99708	0.00000052
		138	5690	5,689.99816	0.00000032
		155	5775	5,775.00901	-0.00000156
55 °C	3V	42	5210	5,210.00979	-0.00000188
		58	5290	5,289.99030	0.00000183
		106	5530	5,529.99197	0.00000145
		122	5610	5,610.00625	-0.00000111
		138	5690	5,689.99232	0.00000135
		155	5775	5,775.00298	-0.00000052

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**10 Minutes:**

Operation Mode	802.11 a	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	36	5180	5,180.00057	-0.00000011
		44	5220	5,220.00252	-0.00000048
		48	5240	5,240.00591	-0.00000113
		52	5260	5,260.00437	-0.00000083
		60	5300	5,300.00994	-0.00000188
		64	5320	5,320.00948	-0.00000178
		100	5500	5,499.99481	0.00000094
		116	5580	5,579.99487	0.00000092
		140	5700	5,699.99700	0.00000053
		144	5720	5,719.99783	0.00000038
		149	5745	5,744.99263	0.00000128
		157	5785	5,784.99349	0.00000113
		165	5825	5,825.00954	-0.00000164
	3V	36	5180	5,180.00861	-0.00000166
		44	5220	5,220.00636	-0.00000122
		48	5240	5,239.99434	0.00000108
		52	5260	5,260.00425	-0.00000081
		60	5300	5,300.00116	-0.00000022
		64	5320	5,320.00832	-0.00000156
		100	5500	5,499.99717	0.00000051
		116	5580	5,579.99092	0.00000163
		140	5700	5,699.99939	0.00000011
		144	5720	5,720.00554	-0.00000097
		149	5745	5,744.99401	0.00000104
		157	5785	5,784.99661	0.00000059
		165	5825	5,824.99911	0.00000015

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25 °C	3.3V	36	5180	5,179.99318	0.00000132
		44	5220	5,220.00147	-0.00000028
		48	5240	5,239.99855	0.00000028
		52	5260	5,260.00347	-0.00000066
		60	5300	5,300.00337	-0.00000064
		64	5320	5,320.00150	-0.00000028
		100	5500	5,499.99986	0.00000003
		116	5580	5,579.99992	0.00000001
		140	5700	5,700.00983	-0.00000172
		144	5720	5,719.99702	0.00000052
		149	5745	5,744.99094	0.00000158
		157	5785	5,785.00309	-0.00000053
		165	5825	5,824.99276	0.00000124
		36	5180	5,180.00595	-0.00000115
		44	5220	5,219.99612	0.00000074
		48	5240	5,239.99044	0.00000182
55 °C	3.6V	52	5260	5,259.99149	0.00000162
		60	5300	5,299.99278	0.00000136
		64	5320	5,319.99881	0.00000022
		100	5500	5,500.00742	-0.00000135
		116	5580	5,580.00038	-0.00000007
		140	5700	5,699.99650	0.00000061
		144	5720	5,720.00624	-0.00000109
		149	5745	5,744.99375	0.00000109
		157	5785	5,784.99295	0.00000122
		165	5825	5,824.99427	0.00000098
		36	5180	5,179.99229	0.00000149
		44	5220	5,219.99192	0.00000155
		48	5240	5,239.99823	0.00000034
		52	5260	5,260.00730	-0.00000139
		60	5300	5,299.99871	0.00000024
55 °C	3V	64	5320	5,319.99059	0.00000177
		100	5500	5,500.00882	-0.00000160
		116	5580	5,580.00138	-0.00000025
		140	5700	5,699.99491	0.00000089
		144	5720	5,719.99500	0.00000087
		149	5745	5,744.99536	0.00000081
		157	5785	5,784.99546	0.00000079
		165	5825	5,824.99522	0.00000082

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Operation Mode	802.11 n_HT40	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	38	5190	5,189.99416	0.00000113
		46	5230	5,229.99695	0.00000058
		54	5270	5,270.00824	-0.00000156
		62	5310	5,310.00588	-0.00000111
		102	5510	5,510.00591	-0.00000107
		110	5550	5,549.99649	0.00000063
		134	5670	5,670.00817	-0.00000144
		142	5710	5,709.99530	0.00000082
		151	5755	5,755.00593	-0.00000103
		159	5795	5,795.00364	-0.00000063
3V	3V	38	5190	5,190.00648	-0.00000125
		46	5230	5,230.00096	-0.00000018
		54	5270	5,270.00496	-0.00000094
		62	5310	5,309.99825	0.00000033
		102	5510	5,510.00592	-0.00000107
		110	5550	5,549.99245	0.00000136
		134	5670	5,670.00389	-0.00000069
		142	5710	5,709.99090	0.00000159
		151	5755	5,755.00590	-0.00000103
		159	5795	5,795.00100	-0.00000017

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25 °C	3.3V	38	5190	5,189.99002	0.00000192
		46	5230	5,229.99671	0.00000063
		54	5270	5,270.00870	-0.00000165
		62	5310	5,310.00857	-0.00000161
		102	5510	5,509.99436	0.00000102
		110	5550	5,550.00313	-0.00000056
		134	5670	5,669.99102	0.00000158
		142	5710	5,710.00335	-0.00000059
		151	5755	5,754.99381	0.00000108
		159	5795	5,795.00565	-0.00000097
55 °C	3.6V	38	5190	5,190.00889	-0.00000171
		46	5230	5,229.99311	0.00000132
		54	5270	5,269.99369	0.00000120
		62	5310	5,310.00581	-0.00000109
		102	5510	5,509.99576	0.00000077
		110	5550	5,549.99024	0.00000176
		134	5670	5,670.00519	-0.00000092
		142	5710	5,710.00667	-0.00000117
		151	5755	5,755.00112	-0.00000019
		159	5795	5,795.00668	-0.00000115
55 °C	3V	38	5190	5,190.00716	-0.00000138
		46	5230	5,229.99587	0.00000079
		54	5270	5,269.99525	0.00000090
		62	5310	5,309.99765	0.00000044
		102	5510	5,510.00837	-0.00000152
		110	5550	5,550.00744	-0.00000134
		134	5670	5,669.99605	0.00000070
		142	5710	5,710.00113	-0.00000020
		151	5755	5,755.00634	-0.00000110
		159	5795	5,794.99157	0.00000146

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

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Operation Mode	802.11 ac_VHT80	Test Date	2018.10.02
Temperature	:23 °C	Test By	Gary
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.6V	42	5210	5,209.99596	0.00000077
		58	5290	5,290.00447	-0.00000084
		106	5530	5,530.00803	-0.00000145
		122	5610	5,610.00278	-0.00000050
		138	5690	5,689.99093	0.00000159
		155	5775	5,774.99703	0.00000051
	3V	42	5210	5,210.00256	-0.00000049
		58	5290	5,290.00919	-0.00000174
		106	5530	5,529.99398	0.00000109
		122	5610	5,609.99272	0.00000130
		138	5690	5,690.00359	-0.00000063
		155	5775	5,774.99947	0.00000009
25 °C	3.3V	42	5210	5,209.99710	0.00000056
		58	5290	5,290.00231	-0.00000044
		106	5530	5,529.99910	0.00000016
		122	5610	5,609.99877	0.00000022
		138	5690	5,689.99511	0.00000086
		155	5775	5,775.00129	-0.00000022
	3.6V	42	5210	5,210.00210	-0.00000040
		58	5290	5,289.99990	0.00000002
		106	5530	5,529.99447	0.00000100
		122	5610	5,609.99488	0.00000091
		138	5690	5,689.99363	0.00000112
		155	5775	5,775.00257	-0.00000044
55 °C	3V	42	5210	5,209.99575	0.00000082
		58	5290	5,290.00171	-0.00000032
		106	5530	5,530.00765	-0.00000138
		122	5610	5,610.00737	-0.00000131
		138	5690	5,690.00726	-0.00000128
		155	5775	5,774.99527	0.00000082

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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 with unique RF connector and no consideration of replacement.  
Please see EUT photo for details.

*~ End of Report ~*

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