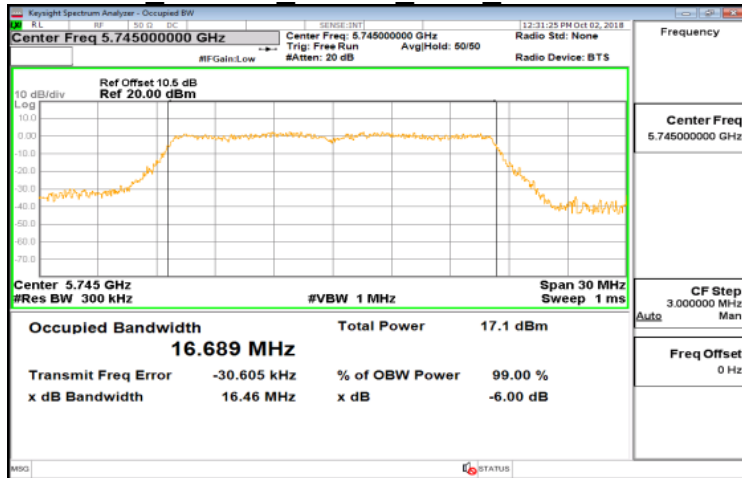
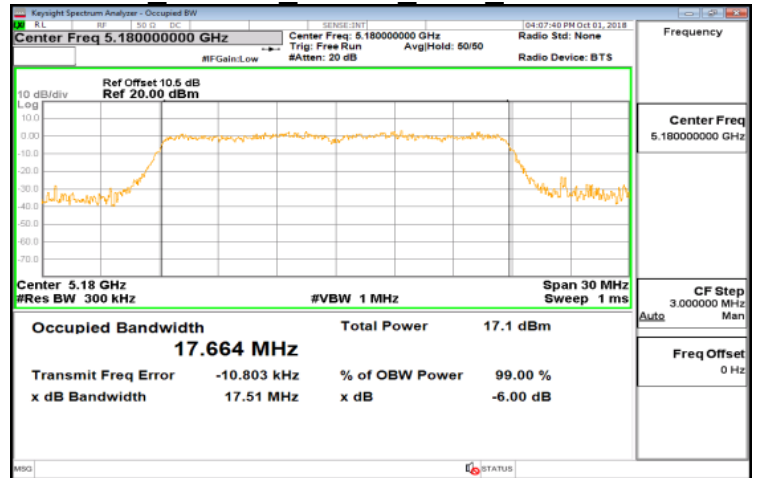


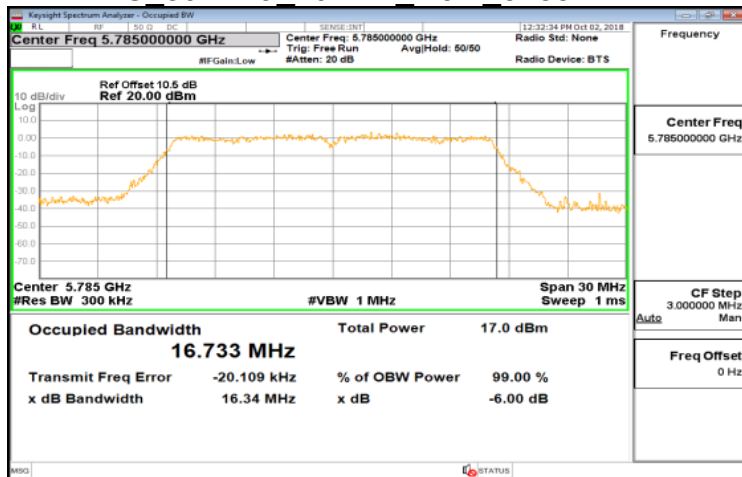
IC 802.11a 20MHz Main 5745MHz



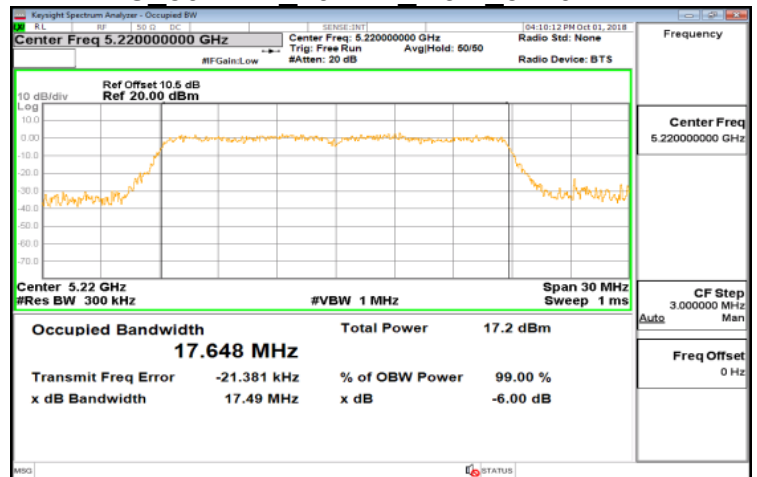
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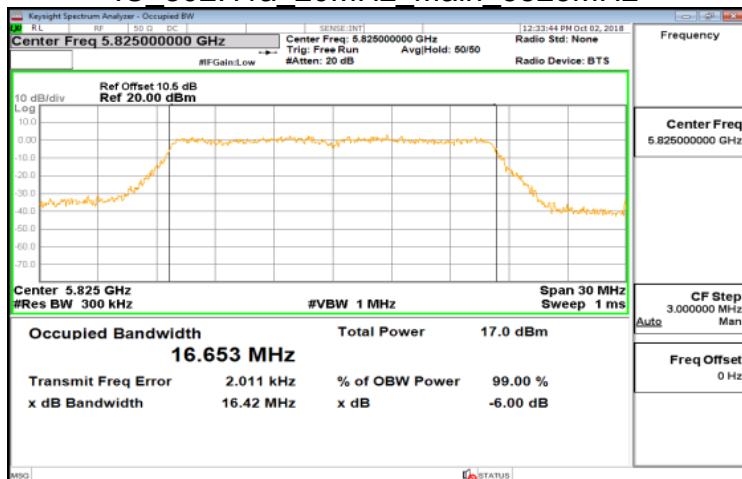
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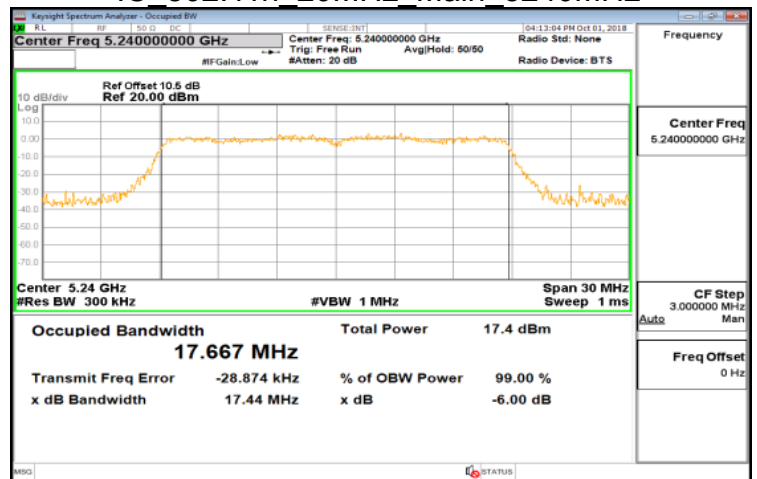
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IC 802.11a 20MHz Main 5825MHz



IC 802.11n 20MHz Main 5240MHz

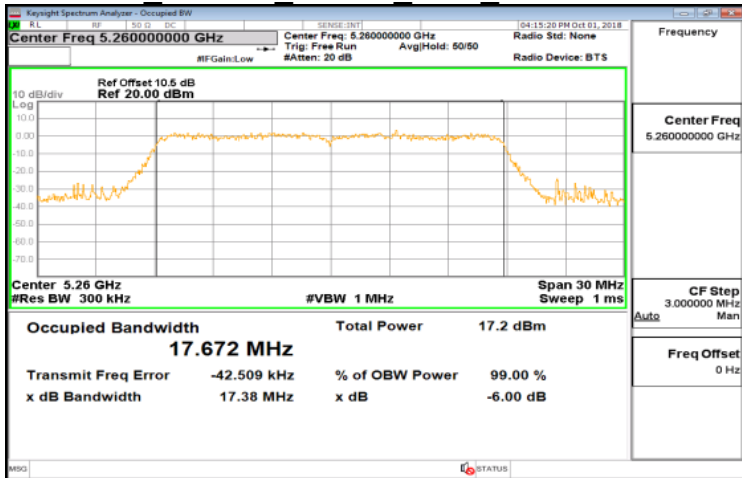


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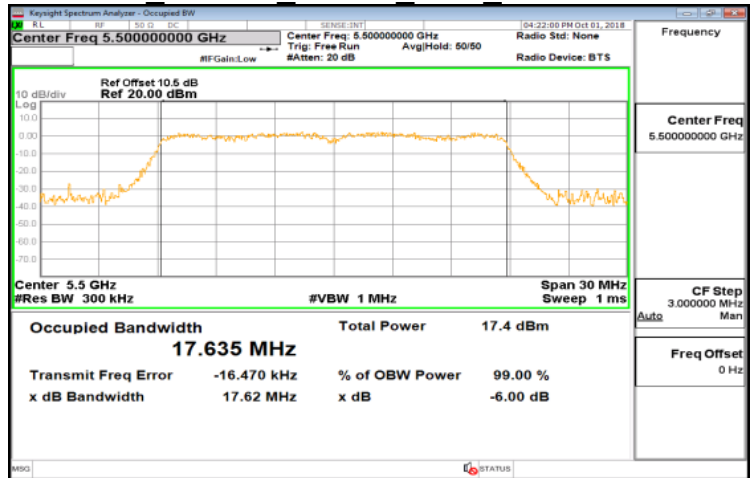
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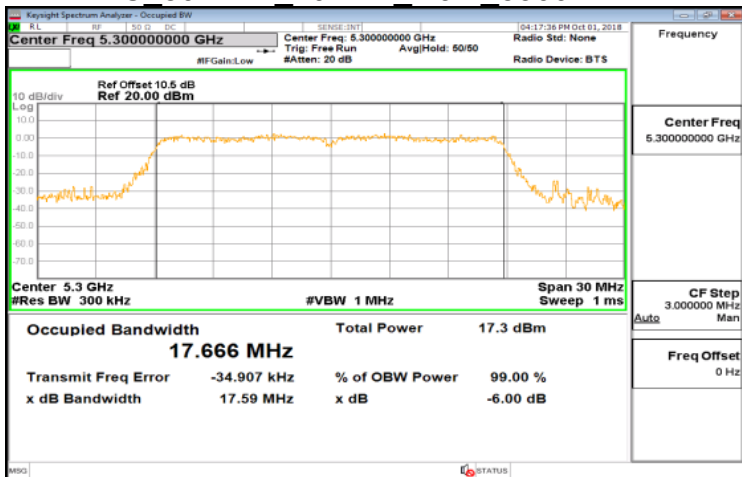
IC 802.11n 20MHz Main 5260MHz



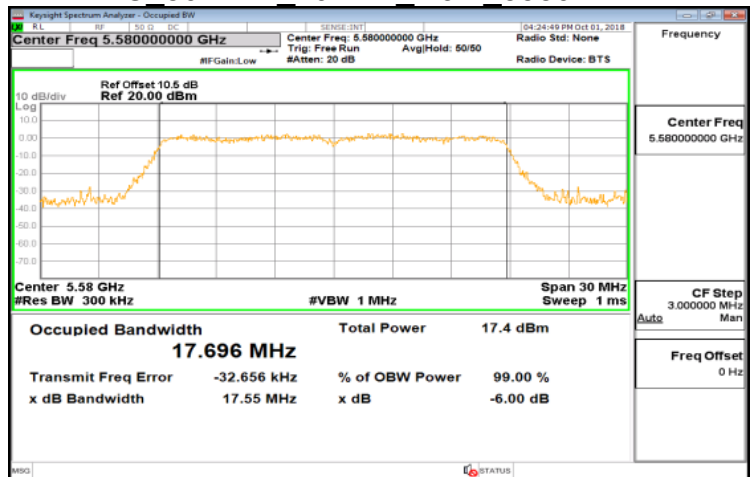
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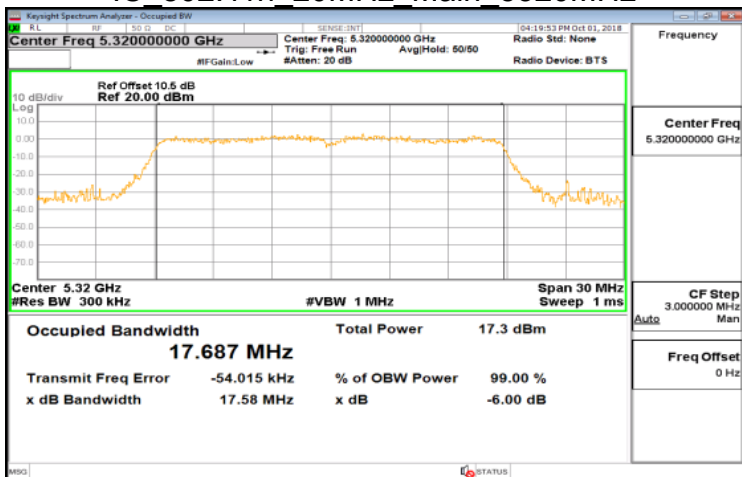
IC 802.11n 20MHz Main 5300MHz



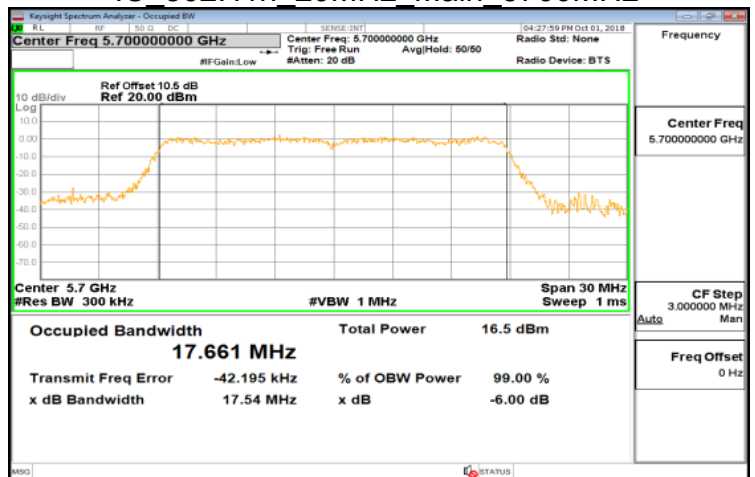
IC 802.11n 20MHz Main 5580MHz



IC 802.11n 20MHz Main 5320MHz



IC 802.11n 20MHz Main 5700MHz

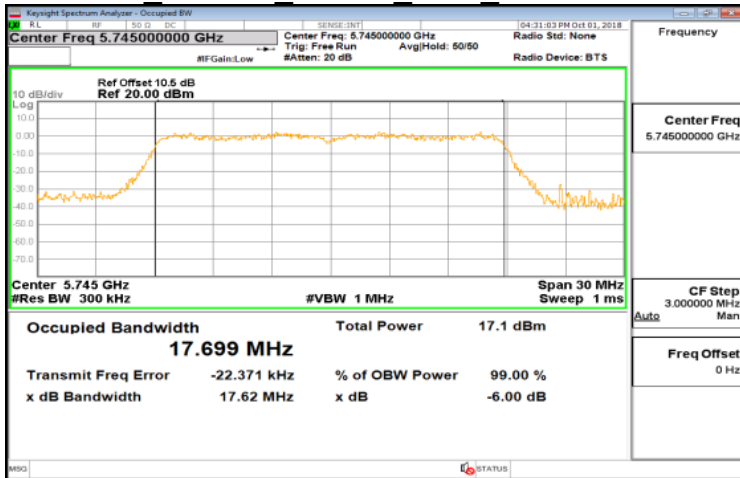


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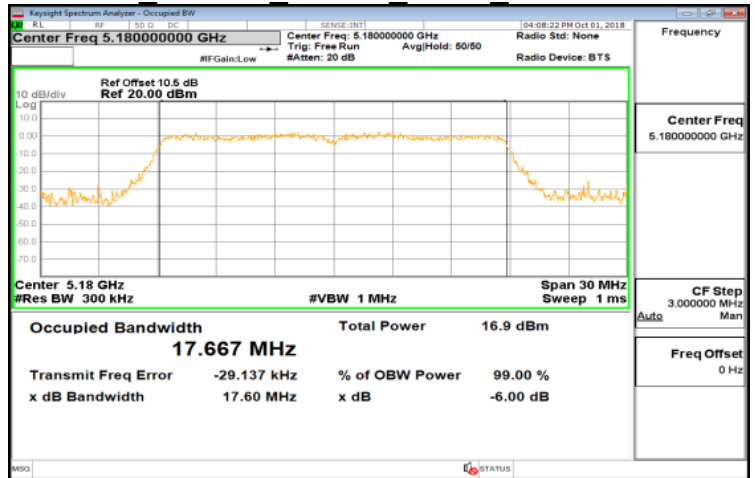
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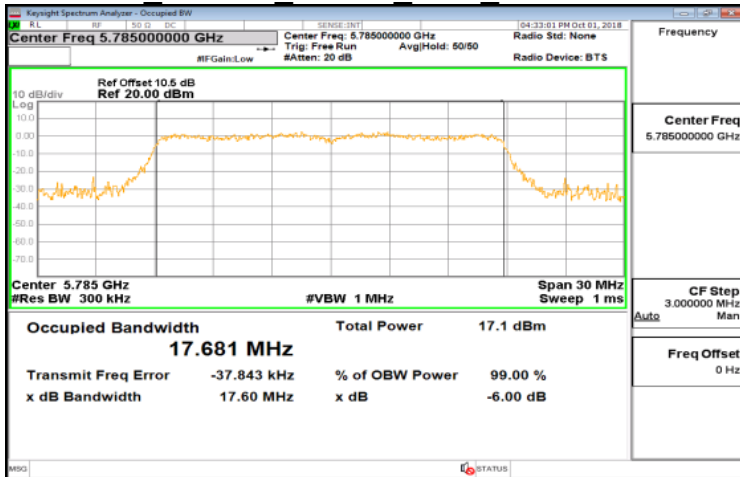
IC 802.11n 20MHz Main 5745MHz



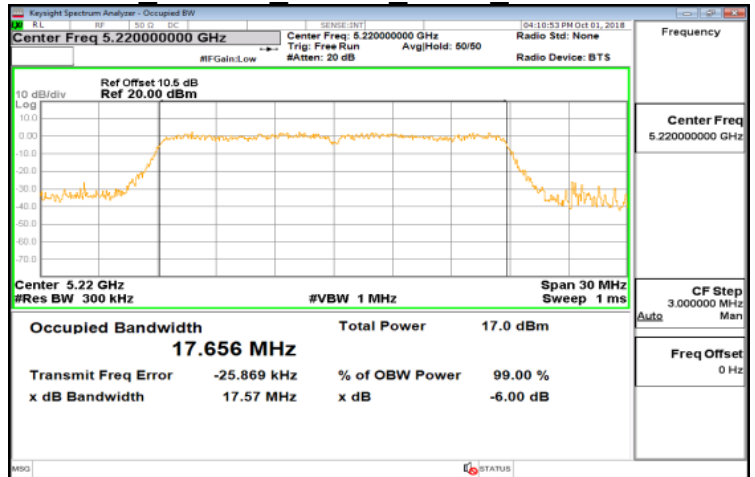
IC 802.11n 20MHz AUX1 5180MHz



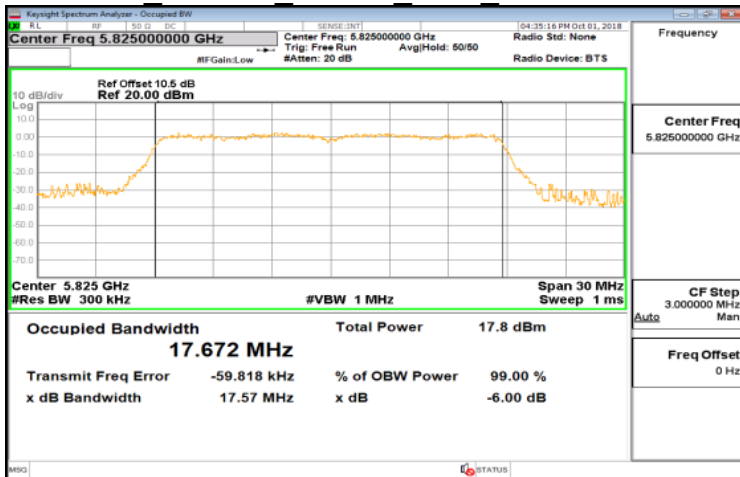
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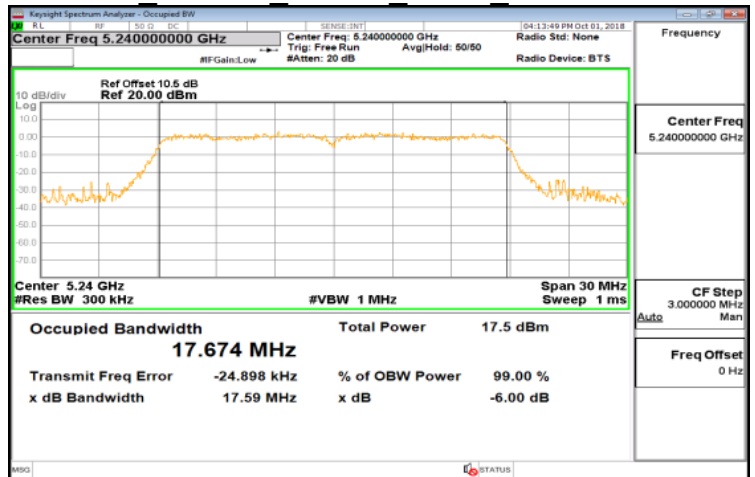
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IC 802.11n 20MHz Main 5825MHz



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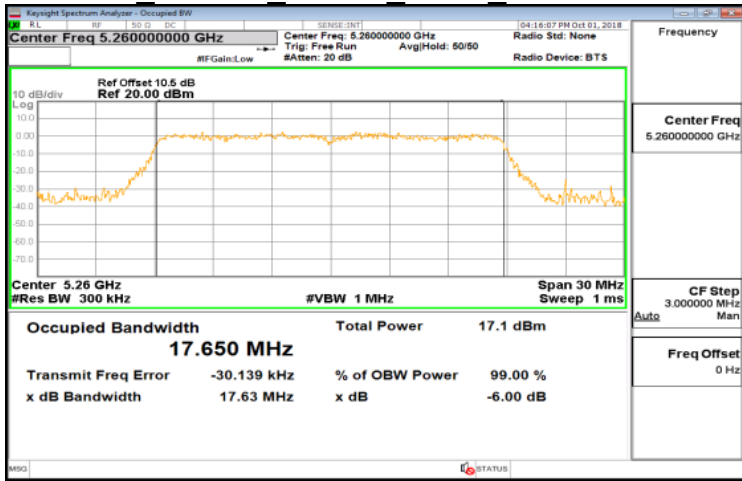


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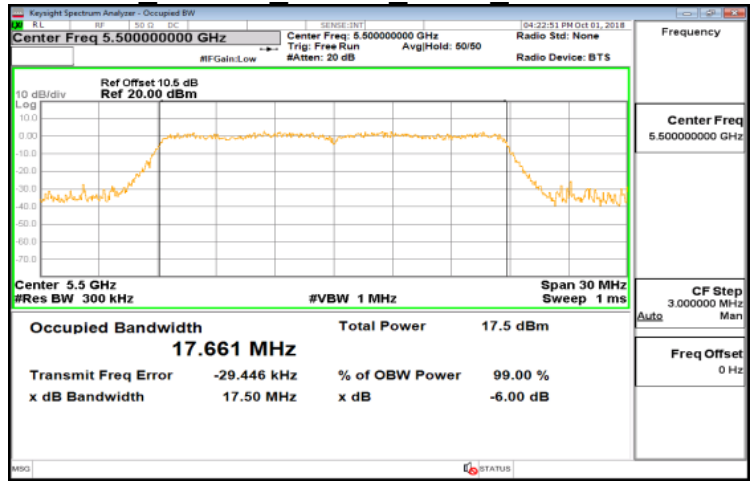
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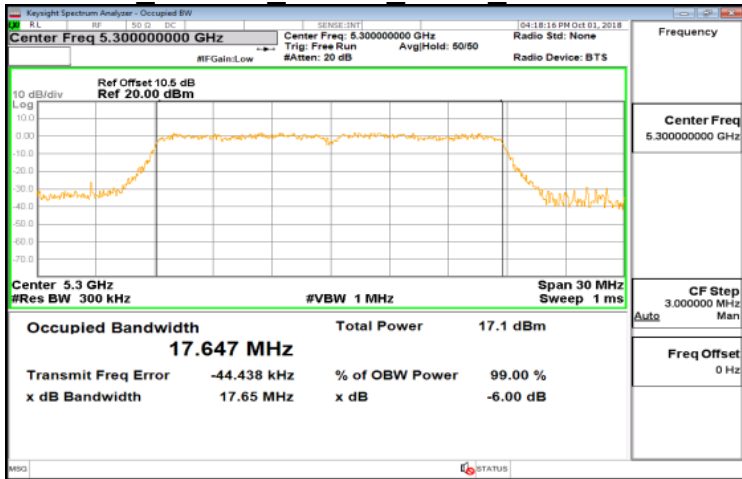
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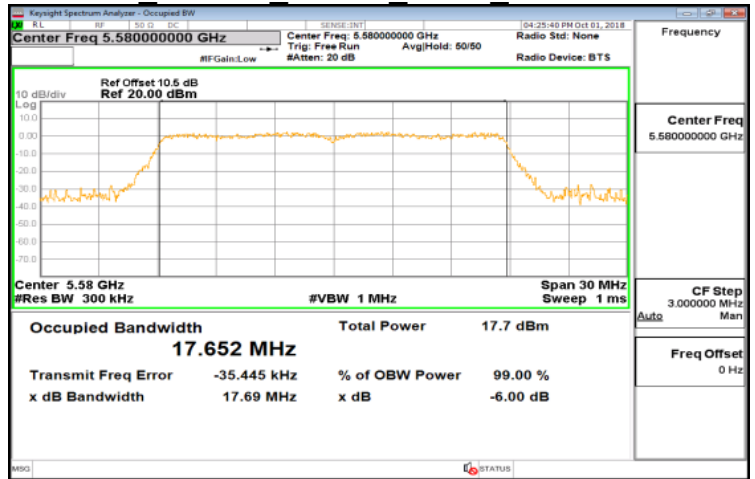
IC 802.11n 20MHz AUX1 5500MHz



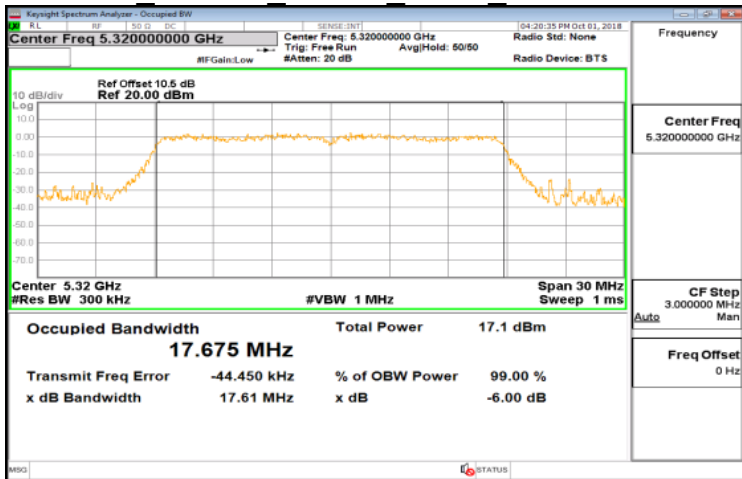
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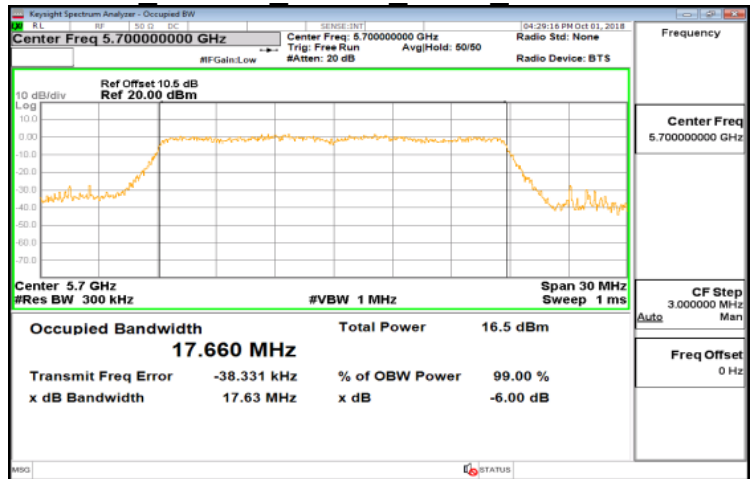
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IC 802.11n 20MHz AUX1 5320MHz



IC 802.11n 20MHz AUX1 5700MHz

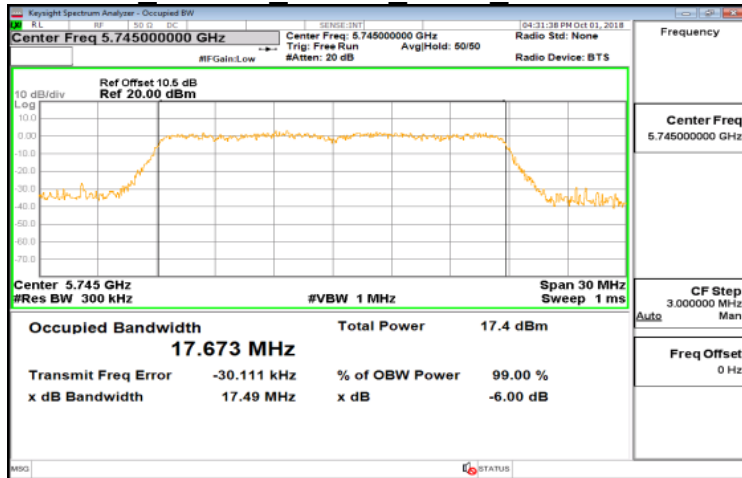


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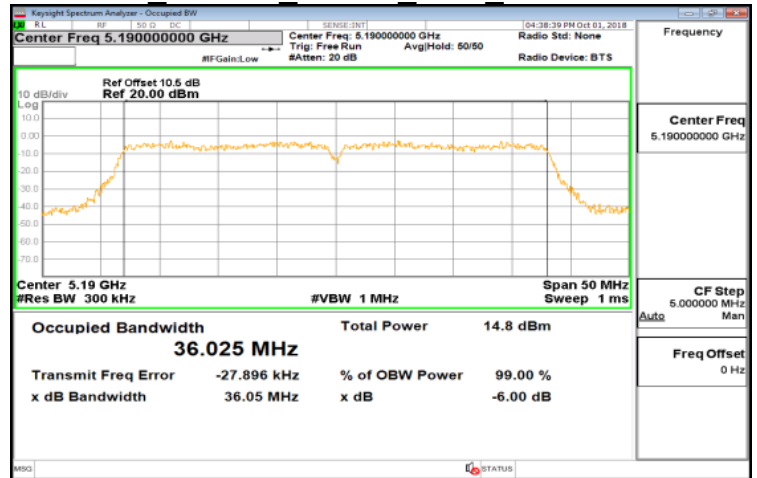
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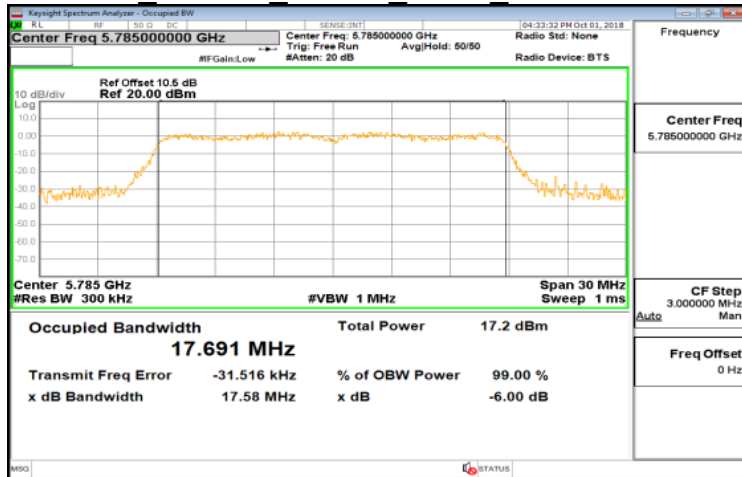
IC 802.11n 20MHz AUX1 5745MHz



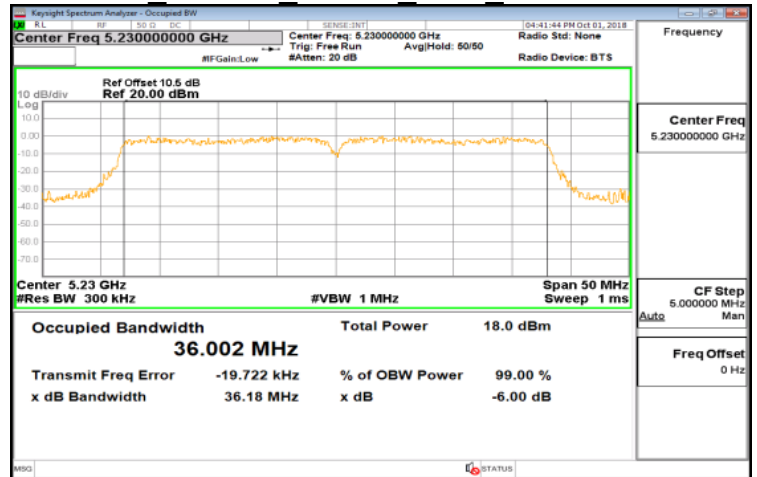
IC 802.11n 40MHz Main 5190MHz



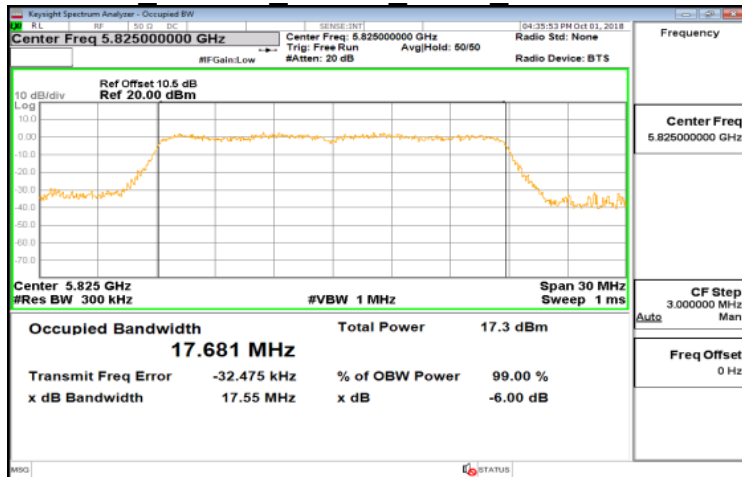
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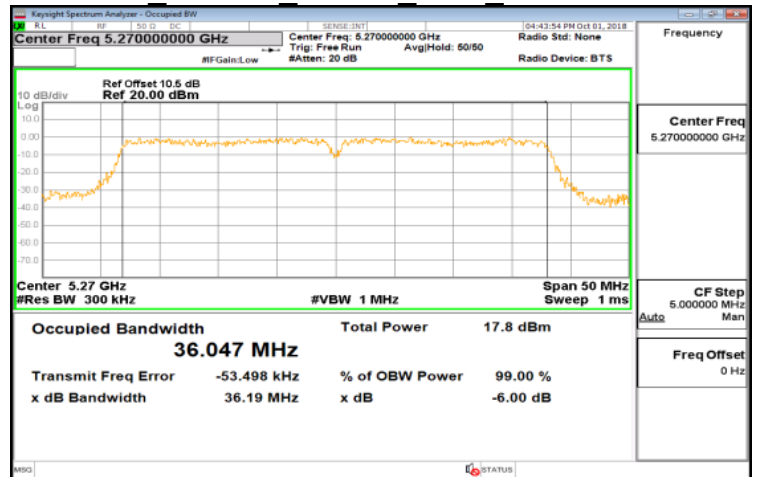
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IC 802.11n 20MHz AUX1 5825MHz



IC 802.11n 40MHz Main 5270MHz

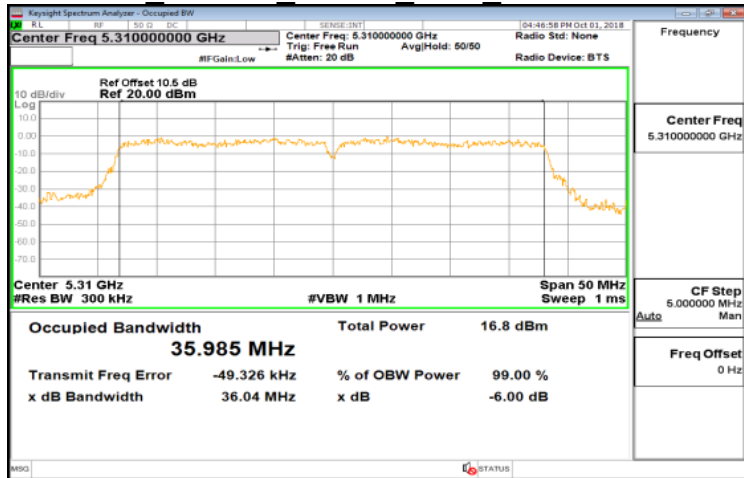


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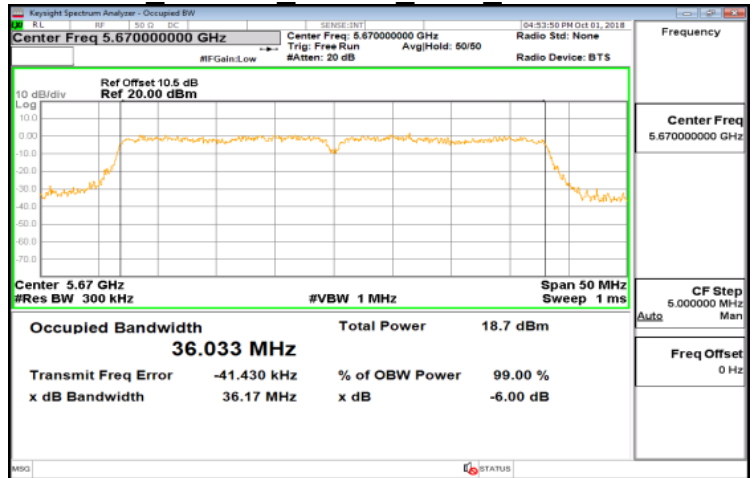
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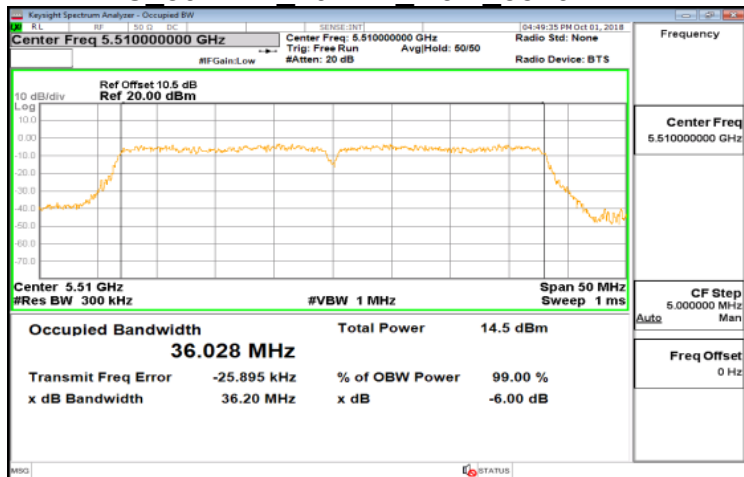
IC 802.11n 40MHz Main 5310MHz



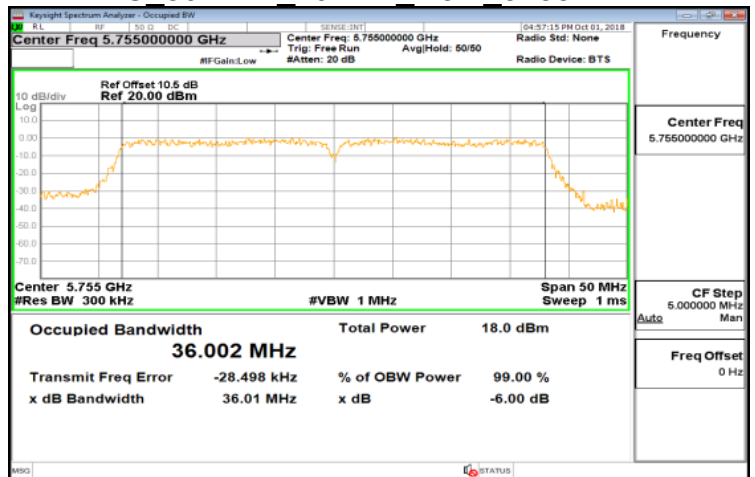
IC 802.11n 40MHz Main 5670MHz



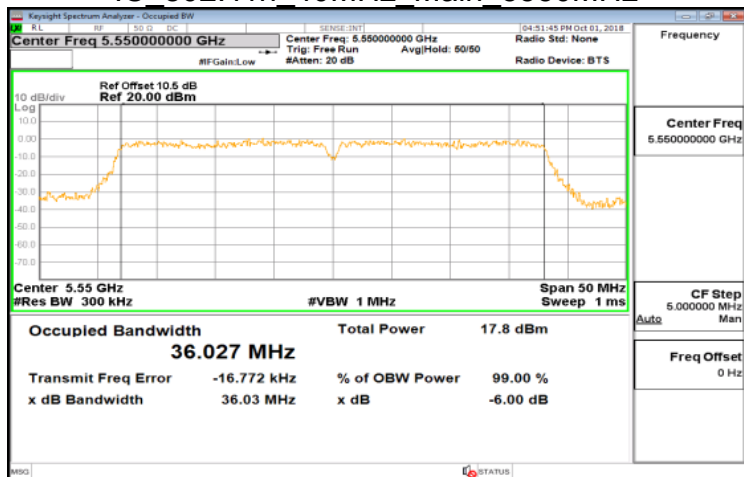
IC 802.11n 40MHz Main 5510MHz



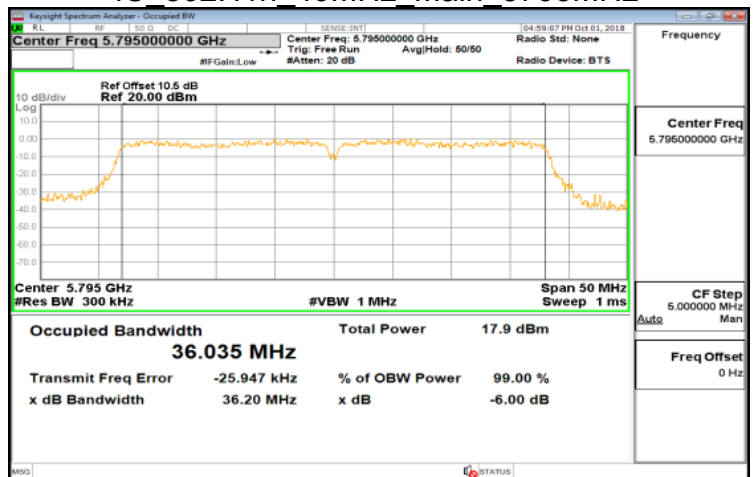
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IC 802.11n 40MHz Main 5550MHz



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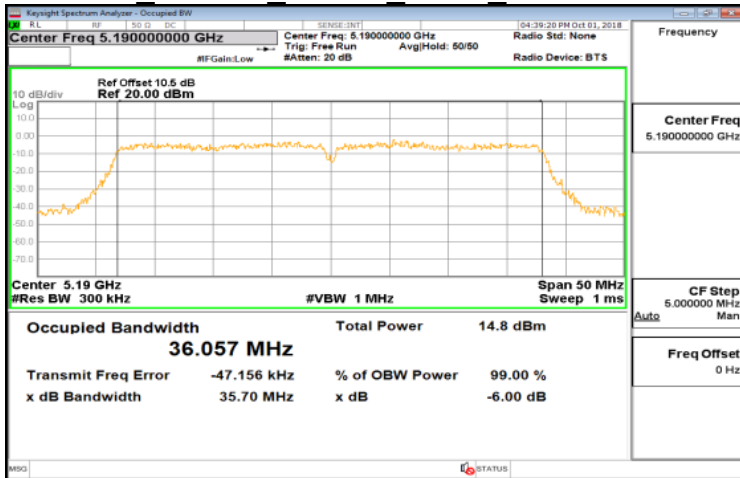


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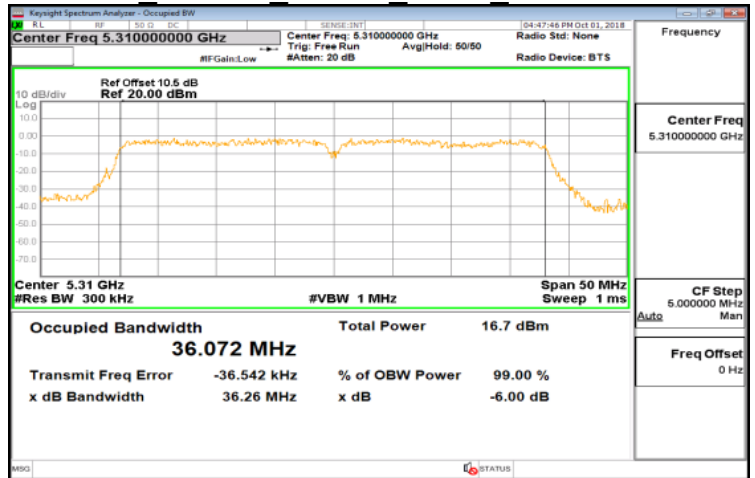
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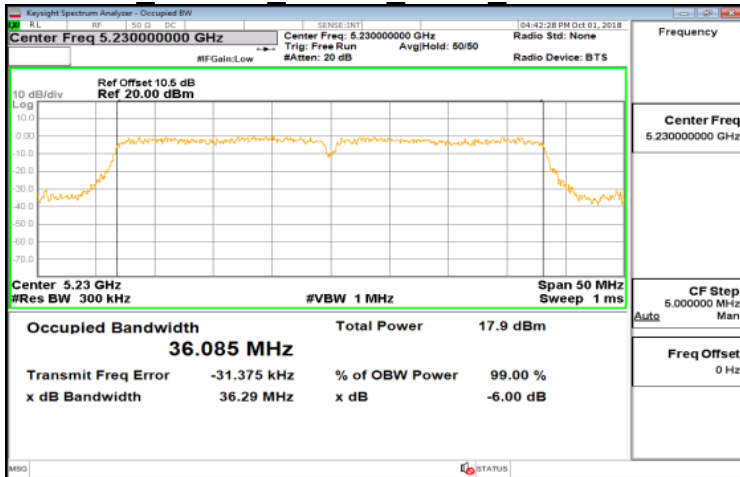
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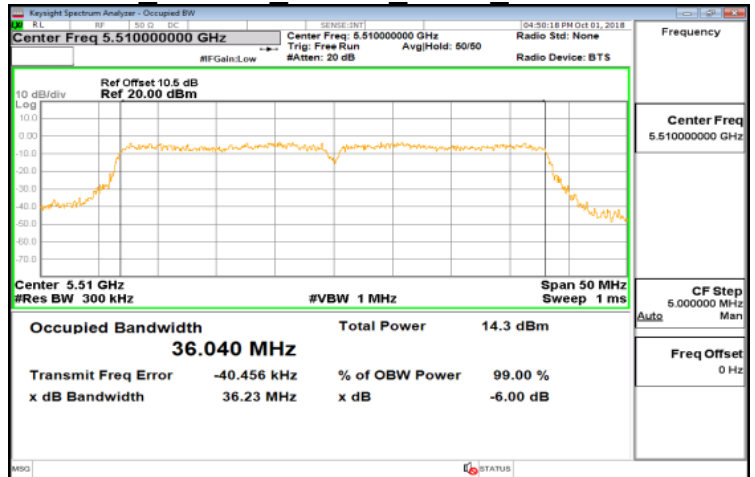
IC 802.11n 40MHz AUX1 5310MHz



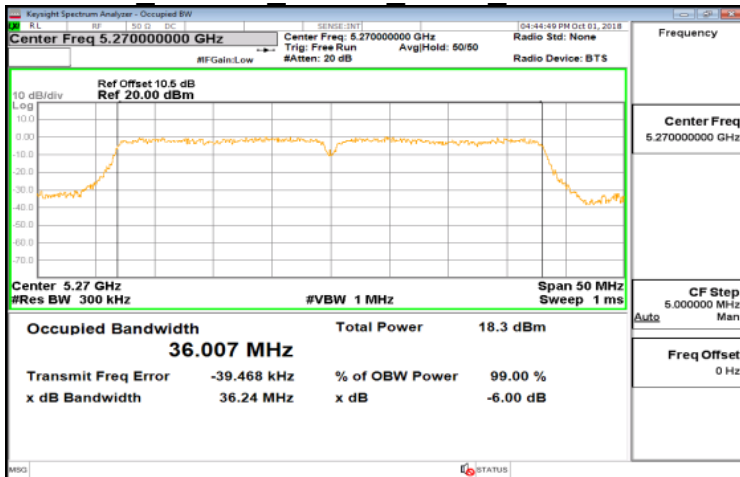
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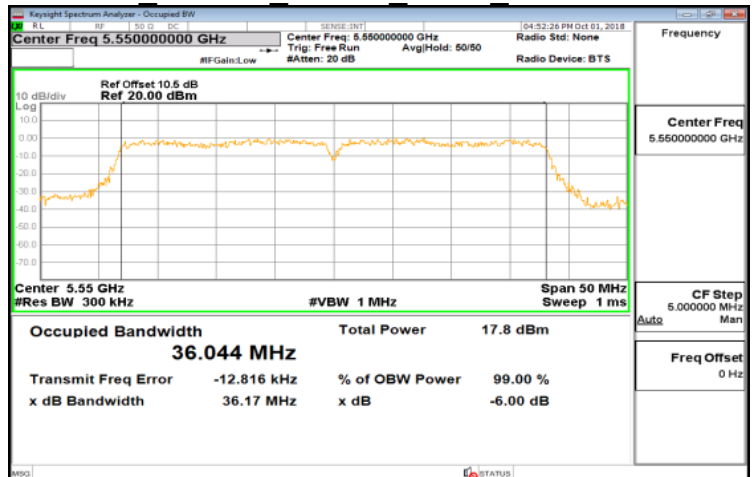
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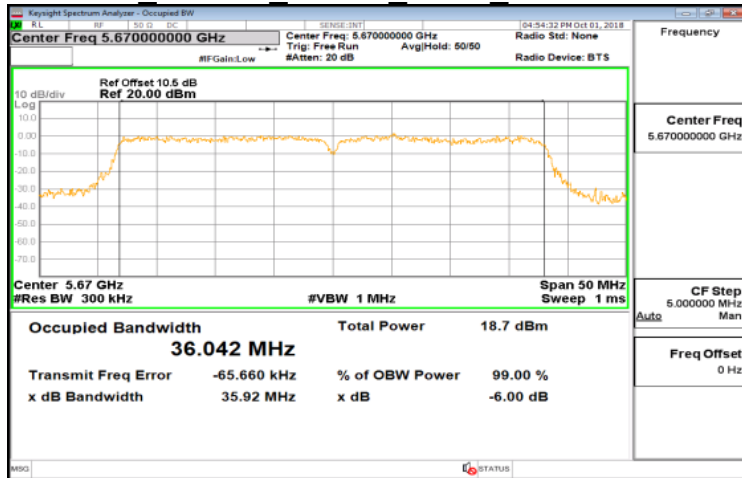


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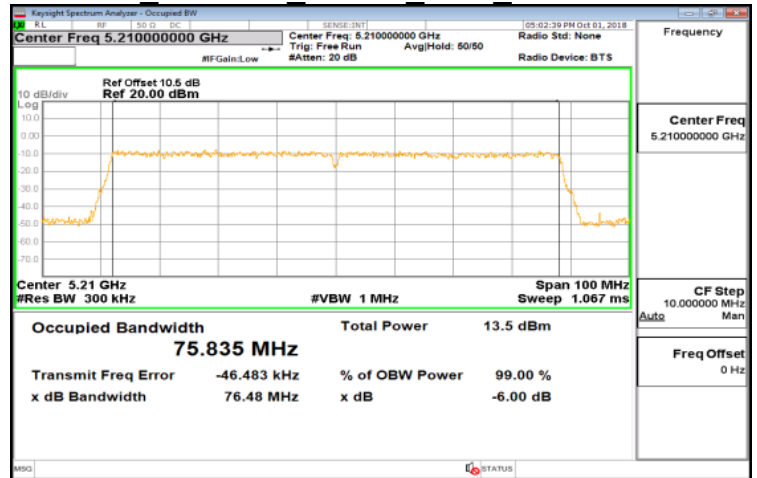
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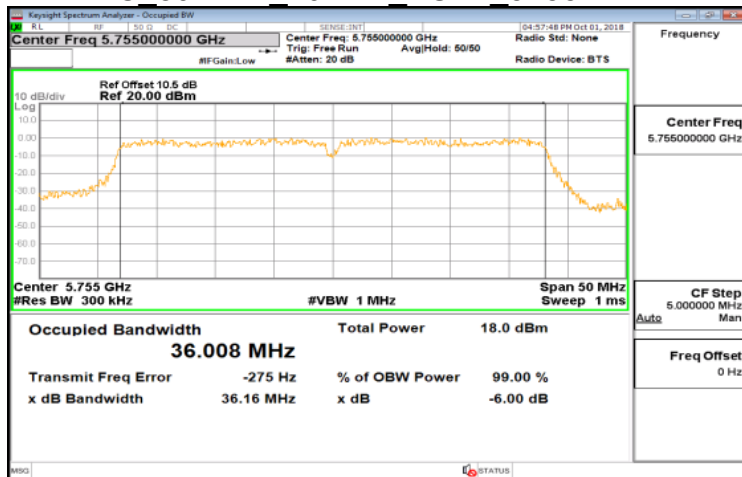
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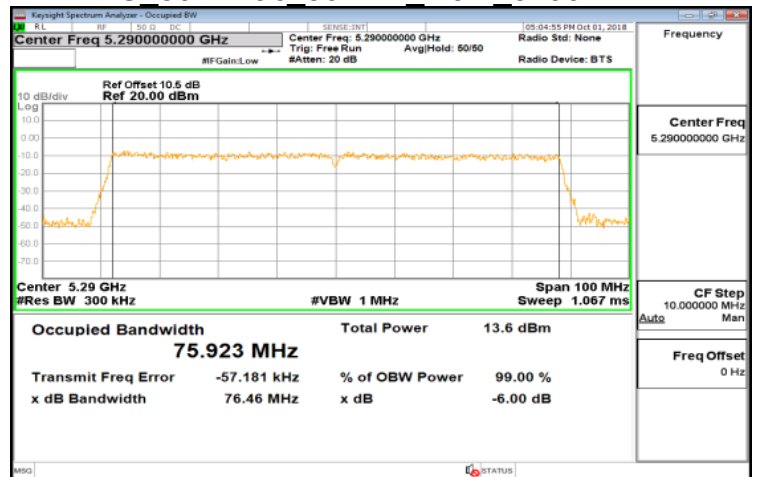
IC 802.11ac 80MHz Main 5210MHz



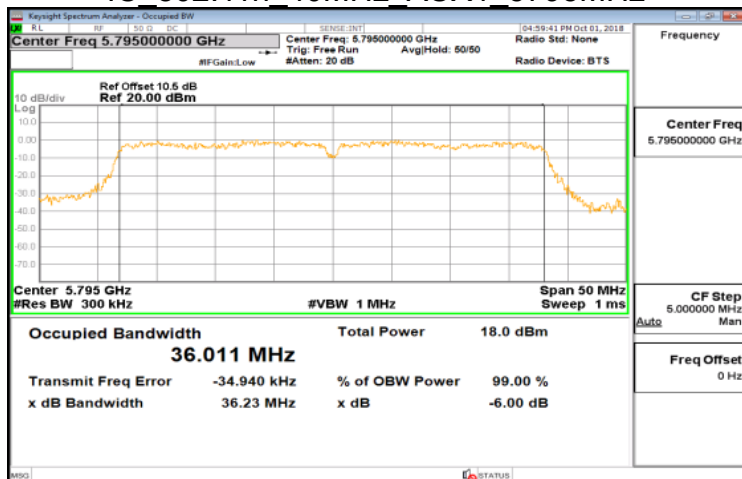
IC 802.11n 40MHz AUX1 5755MHz



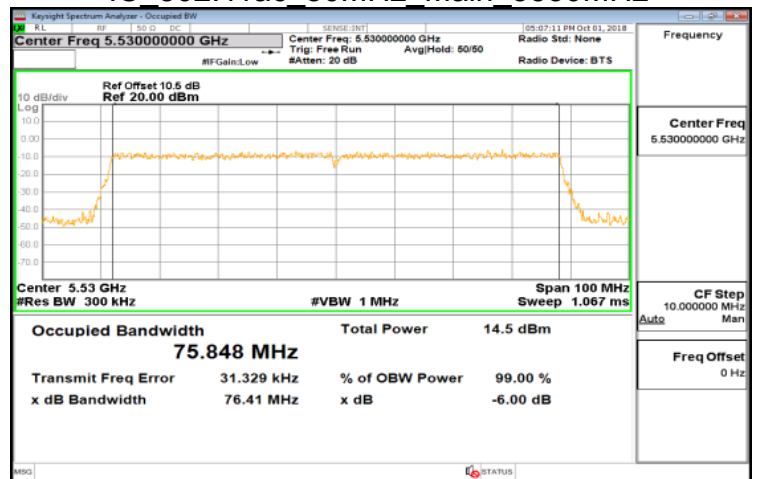
IC 802.11ac 80MHz Main 5290MHz



IC 802.11n 40MHz AUX1 5795MHz



IC 802.11ac 80MHz Main 5530MHz

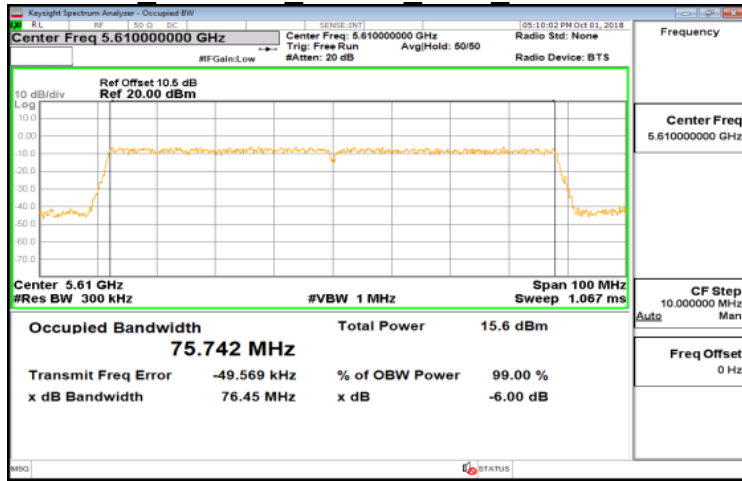


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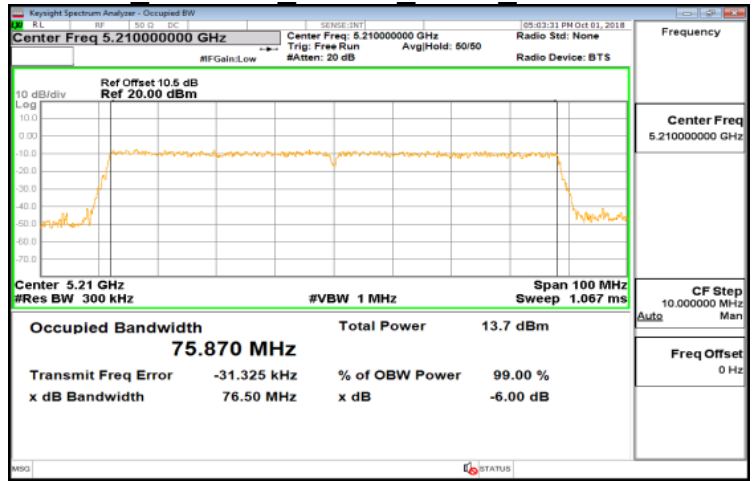
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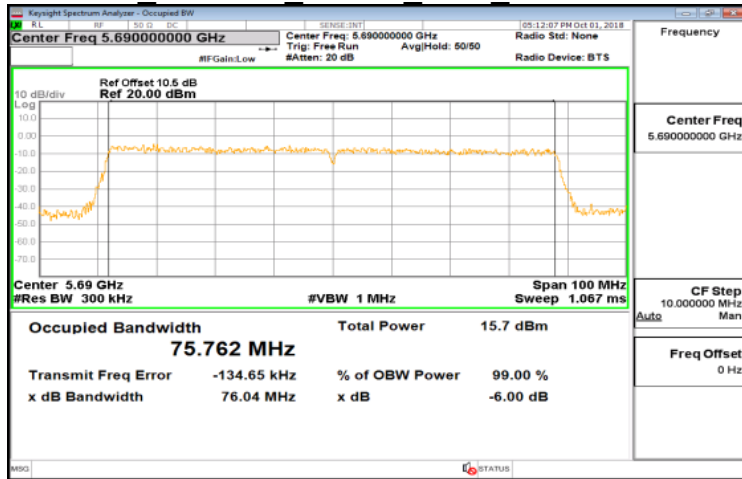
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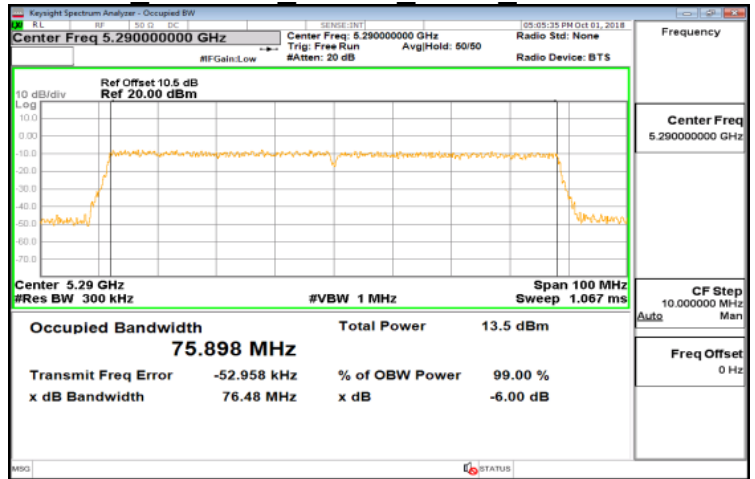
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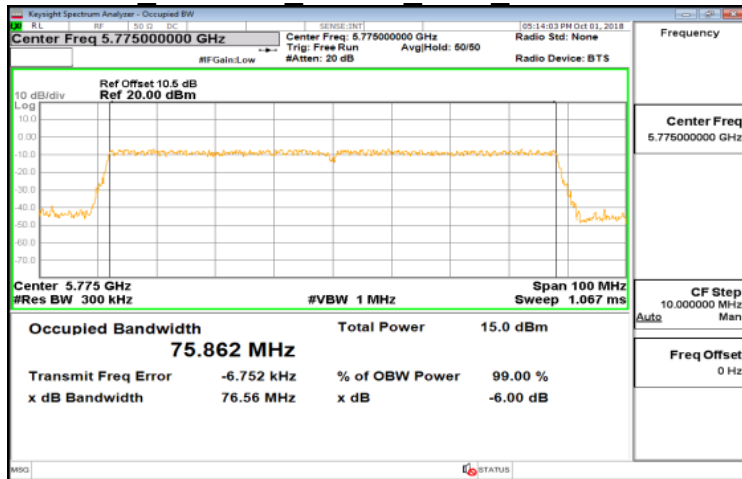
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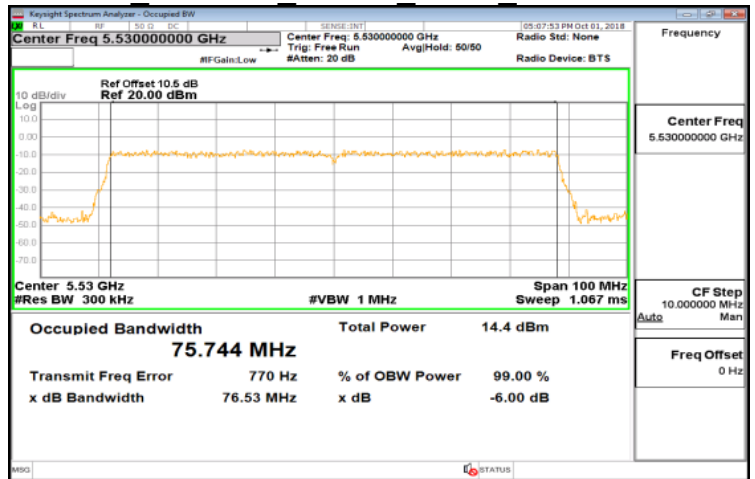
IC 802.11ac 80MHz AUX1 5290MHz



IC 802.11ac 80MHz Main 5775MHz



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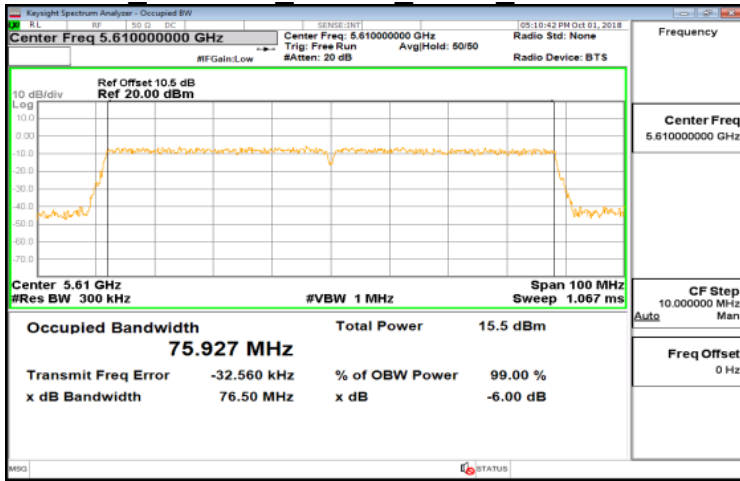


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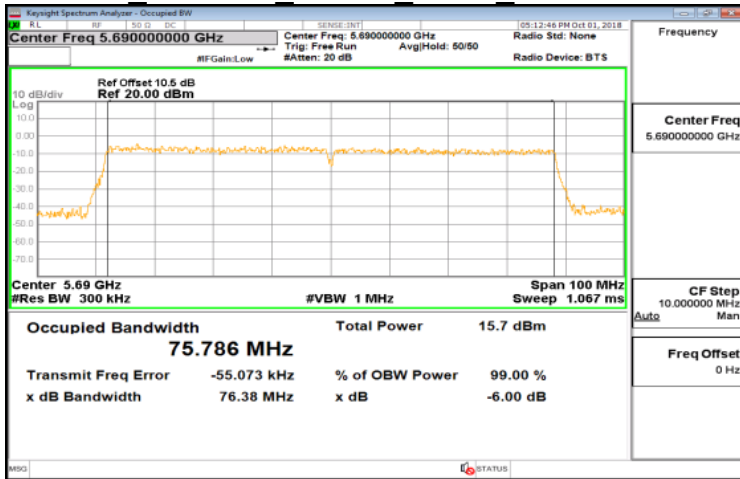
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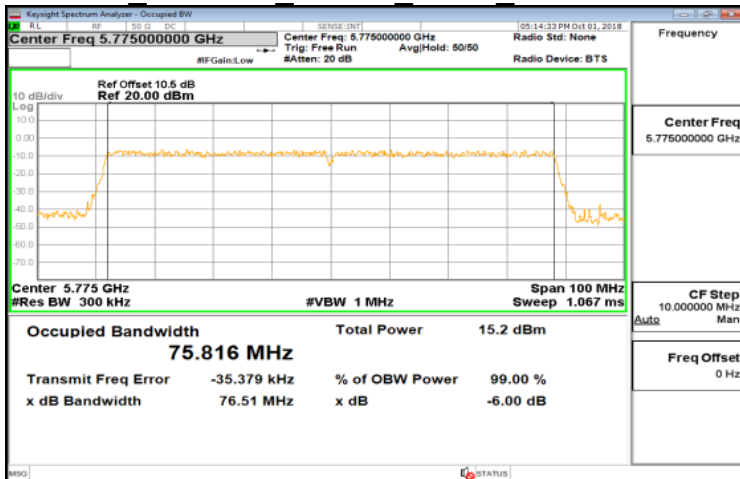
IC 802.11ac 80MHz AUX1 5610MHz



IC 802.11ac 80MHz AUX1 5690MHz



IC 802.11ac 80MHz AUX1 5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

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

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log\left[\left(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20}\right)^2 / N_{ANT}\right] \text{ dBi}$$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

9.2 Measurement Procedure

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

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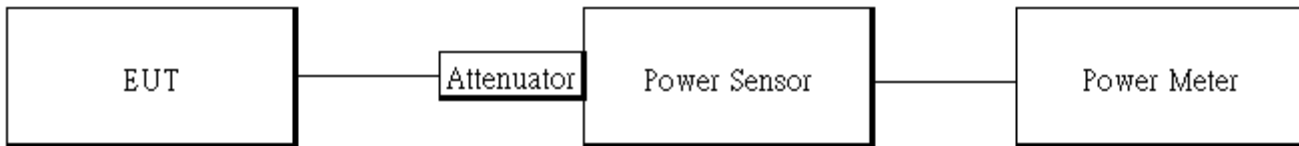
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9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2496A	1804001	2018/02/01	2019/01/31
Power Sensor	Anritsu	MA2411B	1726104	2018/02/01	2019/01/31
Power Sensor	Anritsu	MA2411B	1726107	2018/02/01	2019/01/31
DC Power Supply	Anritsu	E3640A	MY52410006	2017/11/28	2018/11/27
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

9.4 Test Set-up



9.5 Measurement Result

Conducted output power (FCC)

SISO

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
140	5700	MCS0	12.68	18.519	23.98 or $11+10\log(B) = 23.85$	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11.25	13.331	23.98	PASS
62	5310	MCS0	12.42	17.453	23.98 or $11+10\log(B) = 26.81$	PASS
102	5510	MCS0	10.31	10.736	23.98 or $11+10\log(B) = 26.82$	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	8.37	6.866	23.98	PASS
58	5290	MCS0	9.34	8.585	23.98 or $11+10\log(B) = 29.98$	PASS

MIMO
802.11a_Ch0

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12.36	17.235	23.98	PASS
44	5220	6	12.48	17.718	23.98	PASS
48	5240	6	12.38	17.314	23.98	PASS
52	5260	6	12.47	17.677	23.98 or $11+10\log(B) = 23.72$	PASS
60	5300	6	12.51	17.841	23.98 or $11+10\log(B) = 23.71$	PASS
64	5320	6	12.29	16.959	23.98 or $11+10\log(B) = 23.67$	PASS
100	5500	6	12.17	16.497	23.98 or $11+10\log(B) = 23.70$	PASS
116	5580	6	12.20	16.611	23.98 or $11+10\log(B) = 23.68$	PASS
140	5700	6	12.35	17.195	23.98 or $11+10\log(B) = 23.66$	PASS
144	5720(U-NII 2C)	6	9.752532	9.446	23.98 or $11+10\log(B) = 22.69$	PASS
144	5720 (U-NII 3)	6	3.171555	2.076	30	PASS
149	5745	6	12.42	17.475	30	PASS
157	5785	6	12.05	16.048	30	PASS
165	5825	6	12.07	16.122	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
36	5180	MCS8	12.7	12.6	15.79	37.072	23.98		PASS
44	5220	MCS8	12.8	12.7	15.83	37.461	23.98		PASS
48	5240	MCS8	12.6	12.2	15.51	34.789	23.98		PASS
52	5260	MCS8	12.6	12.5	15.63	35.774	23.98	or $11+10\log(B) = 24.01$	PASS
60	5300	MCS8	12.4	12.3	15.42	34.083	23.98	or $11+10\log(B) = 23.97$	PASS
64	5320	MCS8	12.2	12.1	15.26	32.816	23.98	or $11+10\log(B) = 23.86$	PASS
100	5500	MCS8	12.4	12.2	15.40	33.929	23.98	or $11+10\log(B) = 23.91$	PASS
116	5580	MCS8	12.3	12.2	15.35	33.538	23.98	or $11+10\log(B) = 23.95$	PASS
140	5700	MCS8	11.4	11.4	14.49	27.513	23.98	or $11+10\log(B) = 23.97$	PASS
144	5720(U-NII 2C)	MCS8	9.5	8.93	11.61	16.719	23.98	or $11+10\log(B) = 22.70$	PASS
144	5720 (U-NII 3)	MCS8	3.05	2.96	3.73	3.997	30		PASS
149	5745	MCS8	12	12.3	15.27	32.946	30		PASS
157	5785	MCS8	12	12.3	15.26	32.824	30		PASS
165	5825	MCS8	12.1	12.3	15.32	33.320	30		PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
38	5190	MCS8	9.29	8.97	12.33	16.380	23.98		PASS
46	5230	MCS8	12.6	12.3	15.64	35.057	23.98		PASS
54	5270	MCS8	12.4	12.2	15.49	33.930	23.98	or $11+10\log(B) = 27.03$	PASS
62	5310	MCS8	11.2	11	14.29	25.738	23.98	or $11+10\log(B) = 27.03$	PASS
102	5510	MCS8	8.98	8.94	12.16	15.741	23.98	or $11+10\log(B) = 27.01$	PASS
110	5550	MCS8	12.3	12.3	15.49	33.926	23.98	or $11+10\log(B) = 27.01$	PASS
134	5670	MCS8	12.3	12.5	15.63	35.046	23.98	or $11+10\log(B) = 27.01$	PASS
142	5710(U-NII 2C)	MCS8	10.7	11	13.62	24.088	23.98	or $11+10\log(B) = 26.42$	PASS
142	5720 (U-NII 3)	MCS8	1.52	1.6	1.95	2.864	30		PASS
151	5755	MCS8	11.9	12.2	15.22	31.869	30		PASS
159	5795	MCS8	11.9	12.3	15.30	32.428	30		PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	g. POWER (dB)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
			CH 0	CH 1					
42	5210	MCS0	7.21	7.13	10.38	10.424	23.98		PASS
58	5290	MCS0	7.43	7.28	10.56	10.879	23.98	or $11+10\log(B) = 30.09$	PASS
106	5530	MCS0	8.19	8.08	11.34	13.019	23.98	or $11+10\log(B) = 30.09$	PASS
122	5610	MCS0	9.07	9.39	12.44	16.762	23.98	or $11+10\log(B) = 30.12$	PASS
138	5690(U-NII 2C)	MCS0	8.47	8.58	11.58	14.241	23.98	or $11+10\log(B) = 29.77$	PASS
138	5690 (U-NII 3)	MCS0	0.56	0.66	0.77	2.302	30		PASS
155	5775	MCS0	8.89	9.21	12.26	16.081	30		PASS

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Conducted output power (IC)
SISO
802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
140	5700	12.68	18.519	23.98 or 11+10log(B) = 23.47	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
62	5310	12.42	17.453	23.98 or 11+10log(B) = 26.57	PASS
102	5510	10.31	10.736	23.98 or 11+10log(B) = 26.57	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	9.34	8.585	23.98 or 11+10log(B) = 29.80	PASS

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MIMO

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	12.47	17.677	23.98 or $11+10\log(B) = 23.22$	PASS
60	5300	12.51	17.841	23.98 or $11+10\log(B) = 23.23$	PASS
64	5320	12.29	16.959	23.98 or $11+10\log(B) = 23.21$	PASS
100	5500	12.17	16.497	23.98 or $11+10\log(B) = 23.22$	PASS
116	5580	12.20	16.611	23.98 or $11+10\log(B) = 23.23$	PASS
140	5700	12.35	17.195	23.98 or $11+10\log(B) = 23.20$	PASS
149	5745	12.42	17.475	30	PASS
157	5785	12.05	16.048	30	PASS
165	5825	12.07	16.122	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	12.6	12.5	15.63	36.575	23.98 or $11+10\log(B) = 23.47$	PASS
60	5300	12.4	12.3	15.42	34.847	23.98 or $11+10\log(B) = 23.47$	PASS
64	5320	12.2	12.1	15.26	33.551	23.98 or $11+10\log(B) = 23.47$	PASS
100	5500	12.4	12.2	15.40	34.688	23.98 or $11+10\log(B) = 23.46$	PASS
116	5580	12.3	12.2	15.35	34.289	23.98 or $11+10\log(B) = 23.47$	PASS
140	5700	11.4	11.4	14.49	28.129	23.98 or $11+10\log(B) = 23.47$	PASS
149	5745	12	12.3	15.27	33.684	30	PASS
157	5785	12	12.3	15.26	33.559	30	PASS
165	5825	12.1	12.3	15.32	34.066	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.4	12.2	15.49	35.436	23.98 or $11+10\log(B) = 26.56$	PASS
62	5310	11.2	11	14.29	26.881	23.98 or $11+10\log(B) = 26.56$	PASS
102	5510	8.98	8.94	12.16	16.440	23.98 or $11+10\log(B) = 26.57$	PASS
110	5550	12.3	12.3	15.49	35.432	23.98 or $11+10\log(B) = 26.57$	PASS
134	5670	12.3	12.5	15.63	36.601	23.98 or $11+10\log(B) = 26.57$	PASS
151	5755	11.9	12.2	15.22	33.283	30	PASS
159	5795	11.9	12.3	15.30	33.868	30	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	7.43	7.28	10.56	11.385	23.98 or $11+10\log(B) = 29.80$	PASS
106	5530	8.19	8.08	11.34	13.623	23.98 or $11+10\log(B) = 29.79$	PASS
122	5610	9.07	9.39	12.44	17.541	23.98 or $11+10\log(B) = 29.79$	PASS
155	5775	8.89	9.21	12.26	16.829	30	PASS

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EIRP
SISO
802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
140	5700	12.68	2.930	15.61	36.359	30 or 17+10log(B)= 29.47	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.25	2.930	14.18	26.173	23.01 or 10+10log(B)= 25.57	PASS
62	5310	12.42	2.930	15.35	34.266	30 or 17+10log(B)= 32.57	PASS
102	5510	10.31	2.930	13.24	21.080	30 or 17+10log(B)= 32.57	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	8.37	2.930	11.30	13.481	23.01 or 10+10log(B)= 28.80	PASS
58	5290	9.34	2.930	12.27	16.855	30 or 17+10log(B)= 35.80	PASS

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MIMO
802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.36	2.930	15.29	33.838	23.01 or 10+10log(B)= 22.22	PASS
44	5220	12.48	2.930	15.41	34.786	23.01 or 10+10log(B)= 22.23	PASS
48	5240	12.38	2.930	15.31	33.995	23.01 or 10+10log(B)= 22.22	PASS
52	5260	12.47	2.930	15.40	34.706	30 or 17+10log(B)= 29.22	PASS
60	5300	12.51	2.930	15.44	35.027	30 or 17+10log(B)= 29.23	PASS
64	5320	12.29	2.930	15.22	33.297	30 or 17+10log(B)= 29.21	PASS
100	5500	12.17	2.930	15.10	32.390	30 or 17+10log(B)= 29.22	PASS
116	5580	12.20	2.930	15.13	32.614	30 or 17+10log(B)= 29.23	PASS
140	5700	12.35	2.930	15.28	33.760	30 or 17+10log(B)= 29.20	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.79	5.940	21.73	148.832	23.01 or 10+10log(B)= 22.47	PASS
44	5220	15.83	5.940	21.77	150.392	23.01 or 10+10log(B)= 22.47	PASS
48	5240	15.51	5.940	21.45	139.666	23.01 or 10+10log(B)= 22.47	PASS
52	5260	15.63	5.940	21.57	143.619	30 or 17+10log(B)= 29.47	PASS
60	5300	15.42	5.940	21.36	136.833	30 or 17+10log(B)= 29.47	PASS
64	5320	15.26	5.940	21.20	131.745	30 or 17+10log(B)= 29.47	PASS
100	5500	15.40	5.940	21.34	136.211	30 or 17+10log(B)= 29.46	PASS
116	5580	15.35	5.940	21.29	134.643	30 or 17+10log(B)= 29.47	PASS
140	5700	14.49	5.940	20.43	110.453	30 or 17+10log(B)= 29.47	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.33	5.940	18.27	67.176	23.01 or 10+10log(B)= 25.57	PASS
46	5230	15.64	5.940	21.58	143.768	23.01 or 10+10log(B)= 25.56	PASS
54	5270	15.49	5.940	21.43	139.146	30 or 17+10log(B)= 32.56	PASS
62	5310	14.29	5.940	20.23	105.553	30 or 17+10log(B)= 32.56	PASS
102	5510	12.16	5.940	18.10	64.554	30 or 17+10log(B)= 32.57	PASS
110	5550	15.49	5.940	21.43	139.131	30 or 17+10log(B)= 32.57	PASS
134	5670	15.63	5.940	21.58	143.723	30 or 17+10log(B)= 32.57	PASS

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802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.38	5.940	16.32	42.835	23.01 or $10+10\log(B)=$ 28.80	PASS
58	5290	10.56	5.940	16.50	44.704	30 or $17+10\log(B)=$ 35.80	PASS
106	5530	11.34	5.940	17.28	53.496	30 or $17+10\log(B)=$ 35.79	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

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

ISED

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

For equipment operating in the band **5725-5850** MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Note:

As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain
= $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi

[Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add $10 \log(N)$ technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

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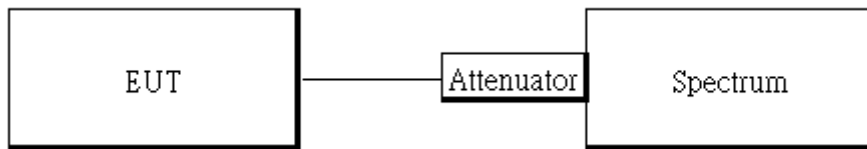
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10.3 Measurement Equipment Used

SGS Conducted Room					
Name of 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

10.4 Test Set-up



10.5 Measurement Result

SISO

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5700	1.28	10.50	0.10	1.38	11	-9.62

POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-4.96	10.50	0.19	-4.77	11	-15.77
5310	-3.25	10.50	0.19	-3.06	11	-14.06
5510	-5.4	10.50	0.19	-5.21	11	-16.21

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-10.90	10.50	0.20	-10.70	11	-21.70
5290	-9.54	10.50	0.20	-9.34	11	-20.34

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MIMO

POWER DENSITY 802.11a MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	0.58	10.50	0.04	0.62	11	-10.38
5220	-0.20	10.50	0.04	-0.16	11	-11.16
5240	0.37	10.50	0.04	0.41	11	-10.59
5260	0.40	10.50	0.04	0.44	11	-10.56
5300	-0.03	10.50	0.04	0.01	11	-10.99
5320	-0.02	10.50	0.04	0.02	11	-10.98
5500	-0.40	10.50	0.04	-0.36	11	-11.36
5580	1.72	10.50	0.04	1.76	11	-9.24
5700	1.30	10.50	0.04	1.34	11	-9.66
5720 (U-NII 2C)	1.45	10.50	0.04	1.49	11	-9.51
5720 (U-NII 3)	0.28	10.50	0.04	0.33	30	-29.67
5745	5.04	10.50	-	5.04	30	-24.96
5785	5.08	10.50	-	5.08	30	-24.92
5825	5.33	10.50	-	5.33	30	-24.67

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5180	3.59	10.50	0.10	3.69	11	-7.31
5220	3.74	10.50	0.10	3.84	11	-7.16
5240	3.04	10.50	0.10	3.14	11	-7.86
5260	2.71	10.50	0.10	2.81	11	-8.19
5300	2.69	10.50	0.10	2.79	11	-8.21
5320	2.51	10.50	0.10	2.61	11	-8.39
5500	2.28	10.50	0.10	2.38	11	-8.62
5580	2.97	10.50	0.10	3.07	11	-7.93
5700	2.17	10.50	0.10	2.27	11	-8.73
5720 (U-NII 2C)	3.89	10.50	0.10	3.99	11	-7.01
5720 (U-NII 3)	3.12	10.50	0.10	3.22	30	-26.78
5745	7.48	10.50	-	7.48	30	-22.52
5785	8.22	10.50	-	8.22	30	-21.78
5825	7.47	10.50	-	7.47	30	-22.53

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POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5190	-3.43	10.50	0.19	-3.24	11	-14.24
5230	-0.94	10.50	0.19	-0.75	11	-11.75
5270	-0.66	10.50	0.19	-0.47	11	-11.47
5310	-1.13	10.50	0.19	-0.94	11	-11.94
5510	-4	10.50	0.19	-3.81	11	-14.81
5550	0.27	10.50	0.19	0.46	11	-10.54
5670	0.50	10.50	0.19	0.69	11	-10.31
5710 (U-NII 2C)	0.66	10.50	0.19	0.85	11	-10.15
5710 (U-NII 3)	-1.01	10.50	0.19	-0.82	30	-30.82
5755	5.21	10.50	-	5.21	30	-24.79
5795	5.31	10.50	-	5.31	30	-24.69

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	PSD W/O Duty Factor (dBm)	Offset	Duty Factor	PSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)
5210	-8.78	10.50	0.20	-8.58	11	-19.58
5290	-9.12	10.50	0.20	-8.92	11	-19.92
5530	-8.35	10.50	0.20	-8.15	11	-19.15
5610	-6.71	10.50	0.20	-6.51	11	-17.51
5690 (U-NII 2C)	-5.05	10.50	0.20	-4.85	11	-15.85
5690 (U-NII 3)	-13.95	10.50	0.20	-13.75	30	-43.75
5775	-1.53	10.50	-	-1.53	30	-31.53

SISO

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.70	2.93	-7.77	10	-17.77

MIMO

EIRP spectral density 802.11a MODE						EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	0.62	2.93	3.55	10	-6.45	5180	3.69	5.94	9.63	10	-0.37
5220	-0.16	2.93	2.77	10	-7.23	5220	3.84	5.94	9.78	10	-0.22
5240	0.41	2.93	3.34	10	-6.66	5240	3.14	5.94	9.08	10	-0.92

EIRP spectral density 802.11n HT40 MODE						EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-3.24	5.94	2.70	10	-7.30	5210	-8.58	5.94	-2.64	10	-12.64
5220	-0.75	5.94	5.19	10	-4.81						

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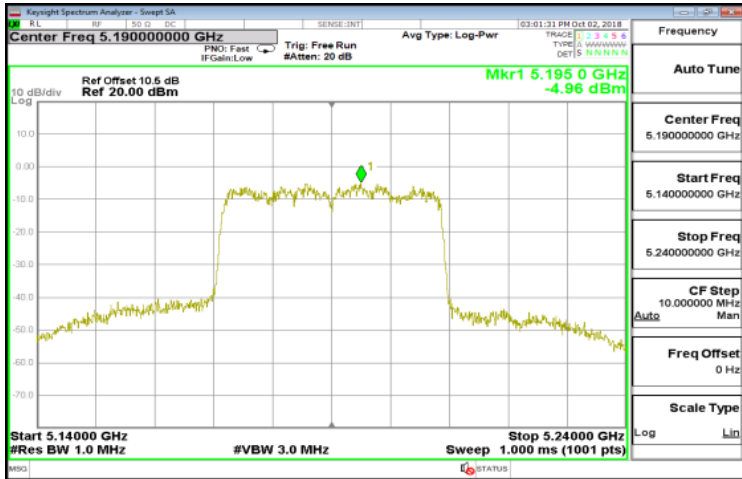
SISO 802.11n_20MHz_5700MHz



802.11n_40MHz_5510MHz



802.11n_40MHz_5190MHz



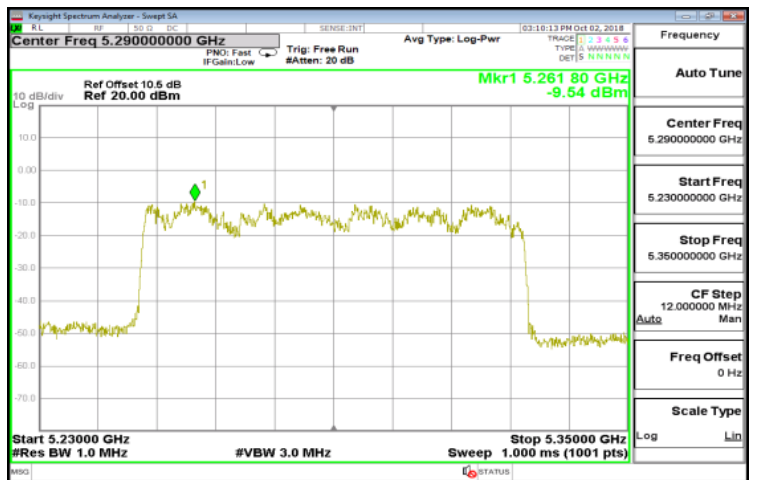
802.11ac_80MHz_5210MHz



802.11n_40MHz_5310MHz



802.11ac_80MHz_5290MHz

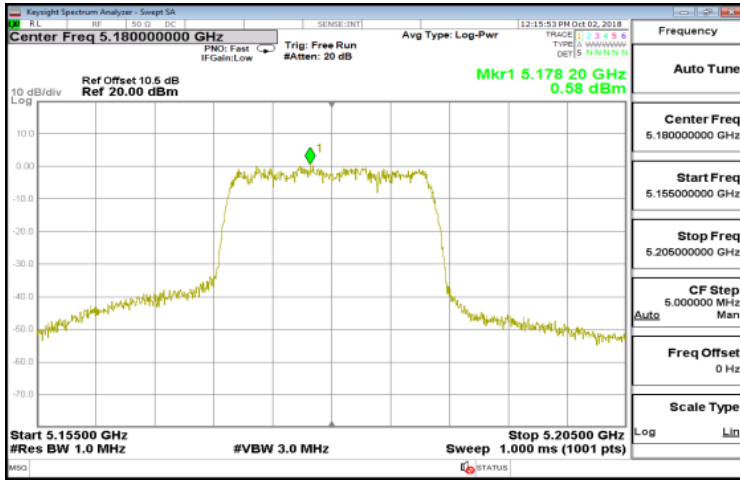


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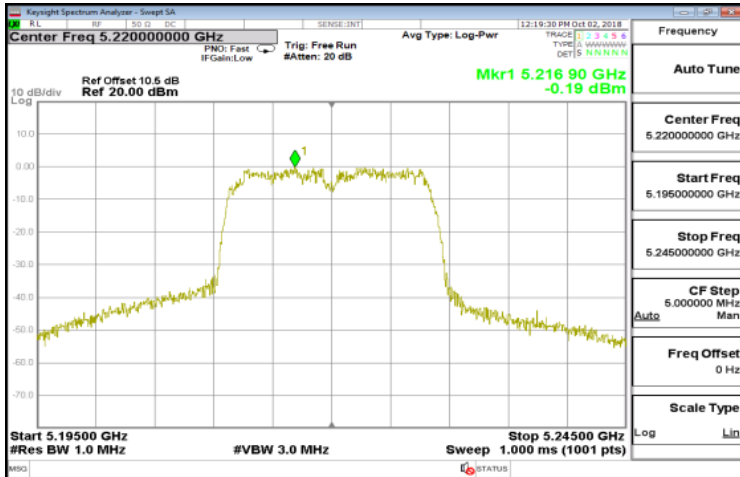
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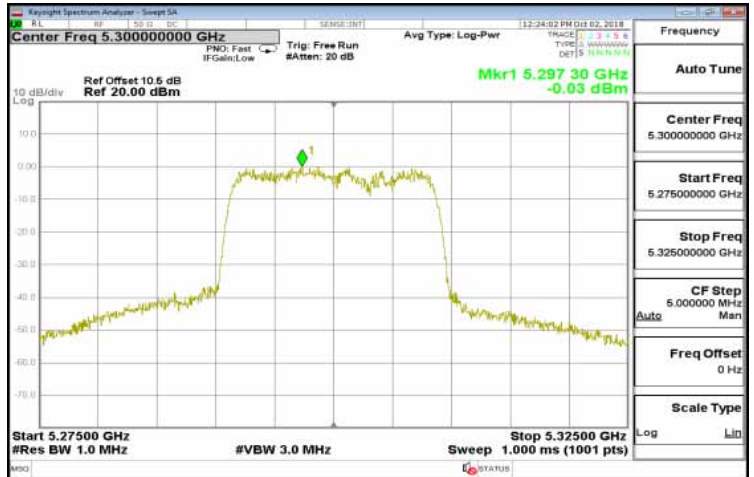
802.11a_20MHz_5260MHz



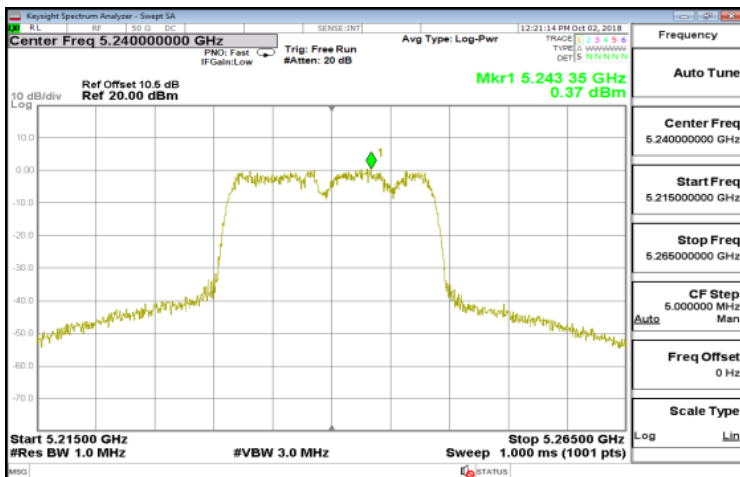
802.11a_20MHz_5220MHz



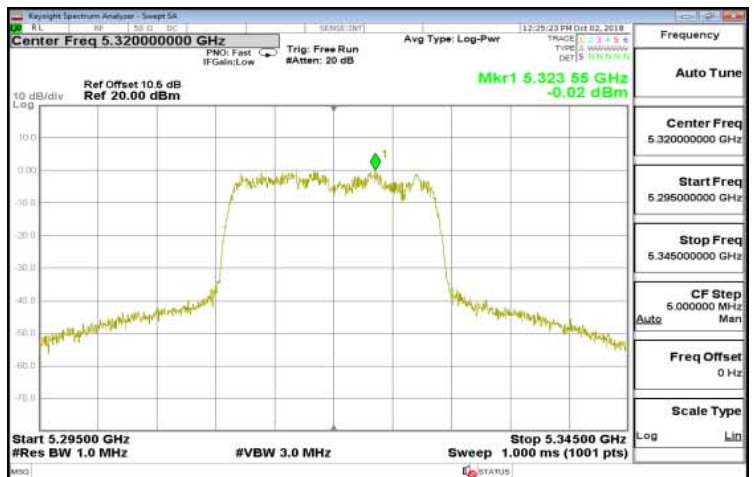
802.11a_20MHz_5300MHz



802.11a_20MHz_5240MHz



802.11a_20MHz_5320MHz

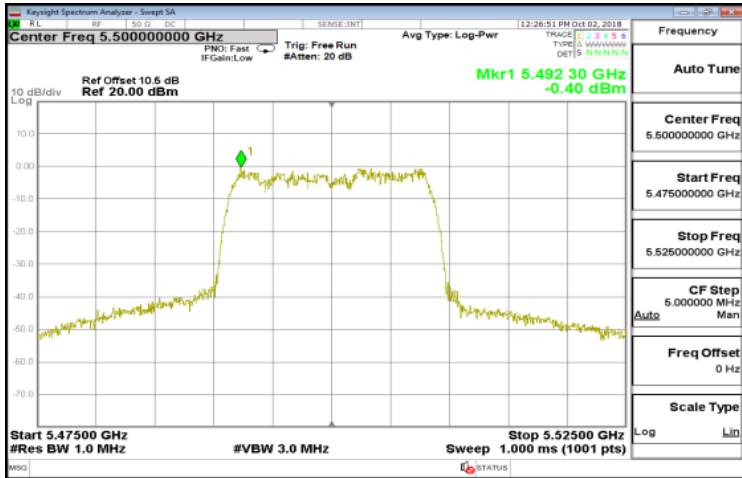


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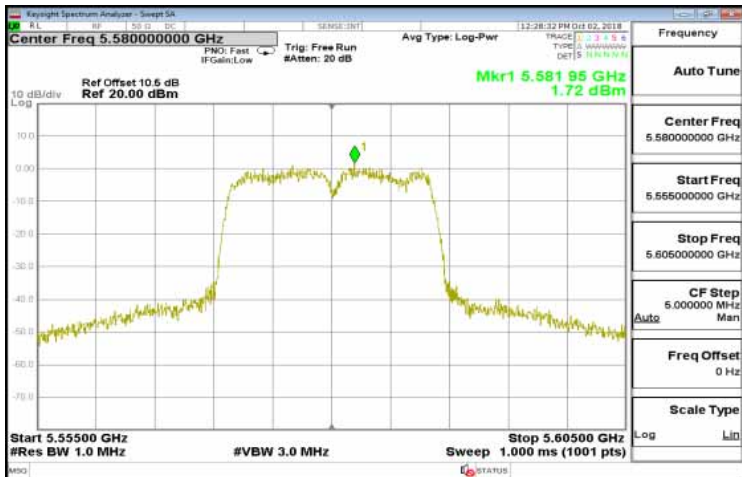
802.11a_20MHz_5500MHz



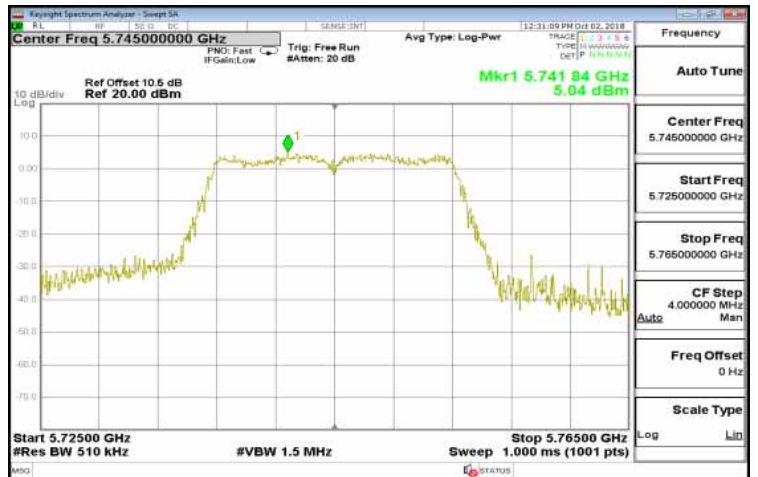
802.11a_20MHz_5720MHz



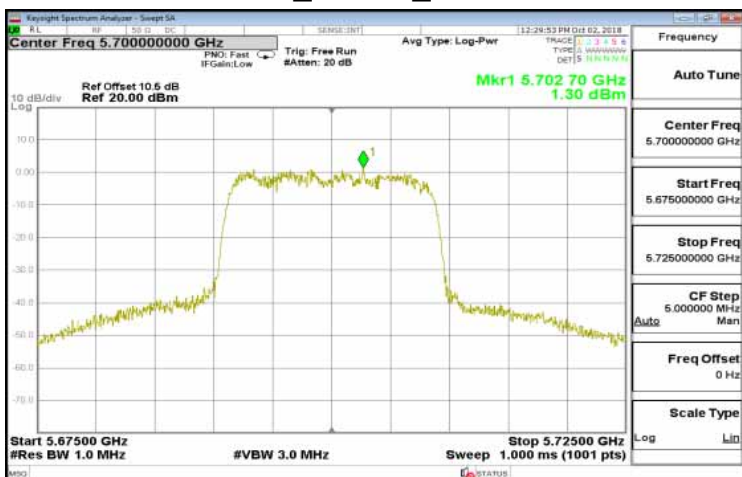
802.11a_20MHz_5580MHz



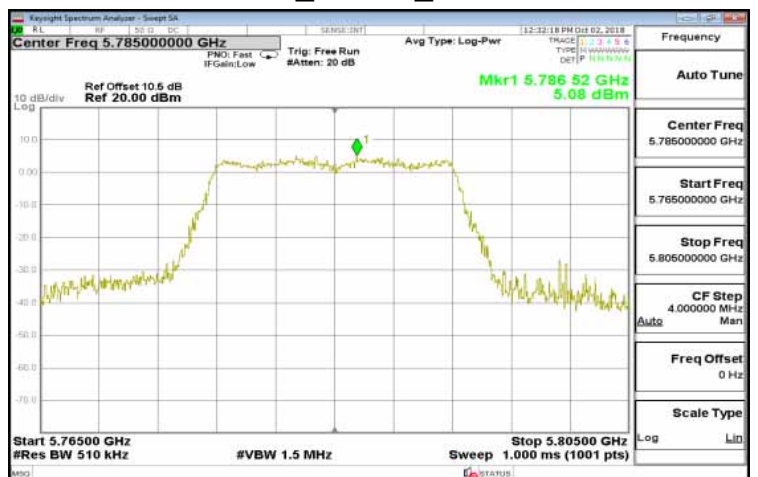
802.11a_20MHz_5745MHz



802.11a_20MHz_5700MHz



802.11a_20MHz_5785MHz



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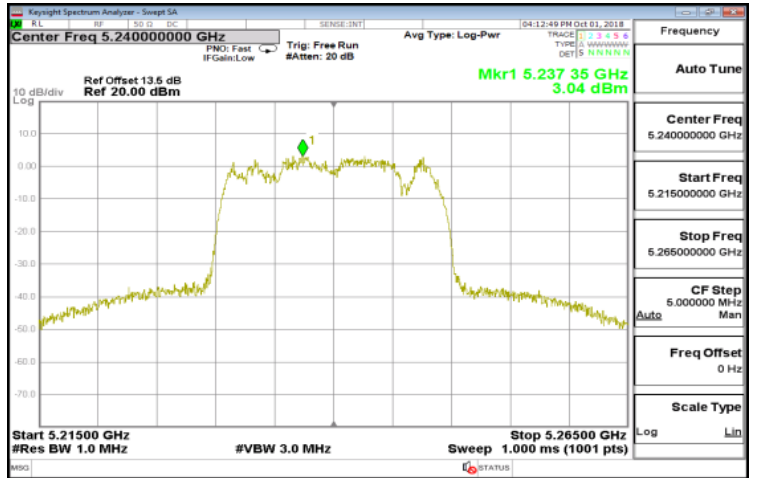
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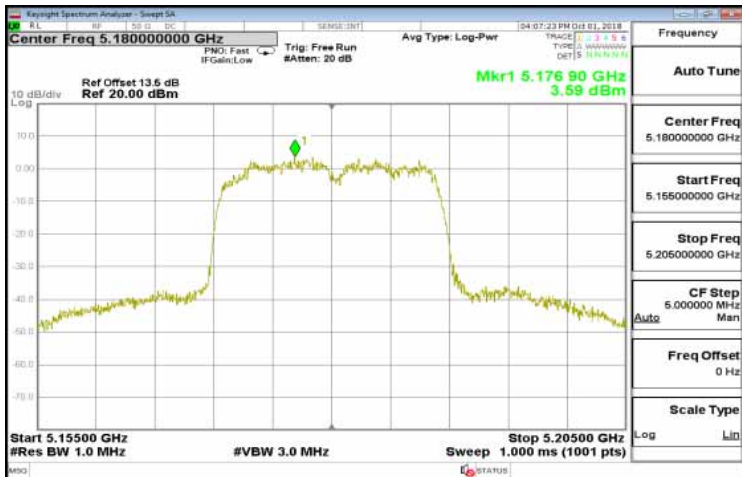
802.11a_20MHz_5825MHz



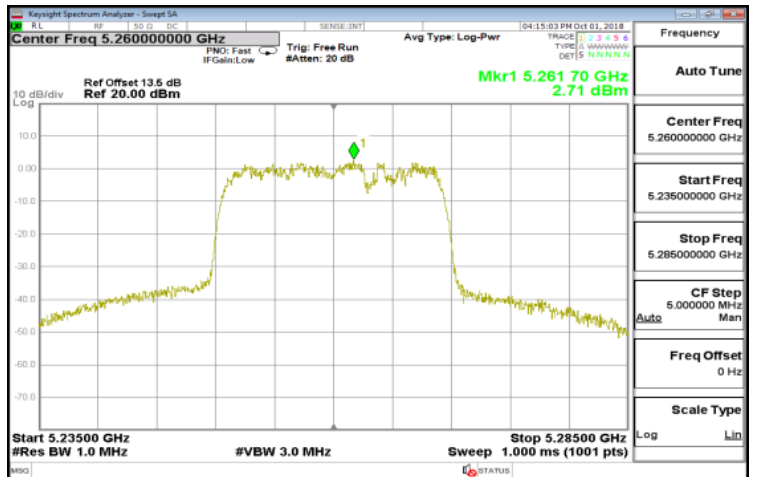
802.11n_20MHz_5240MHz



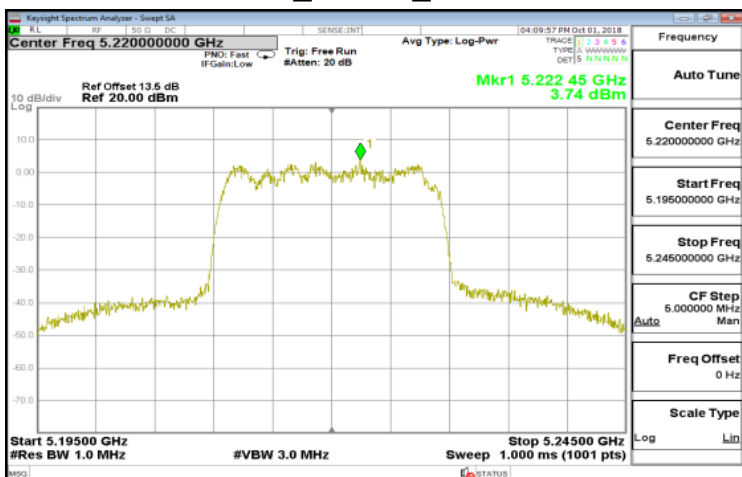
802.11n_20MHz_5180MHz



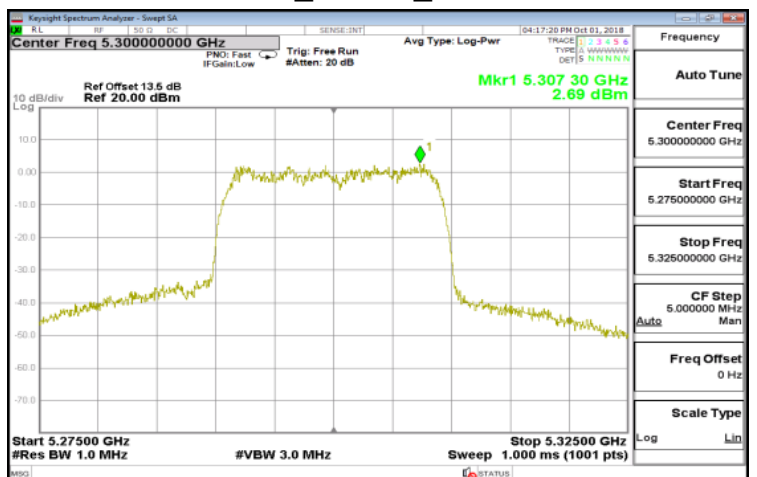
802.11n_20MHz_5260MHz



802.11n_20MHz_5220MHz



802.11n_20MHz_5300MHz



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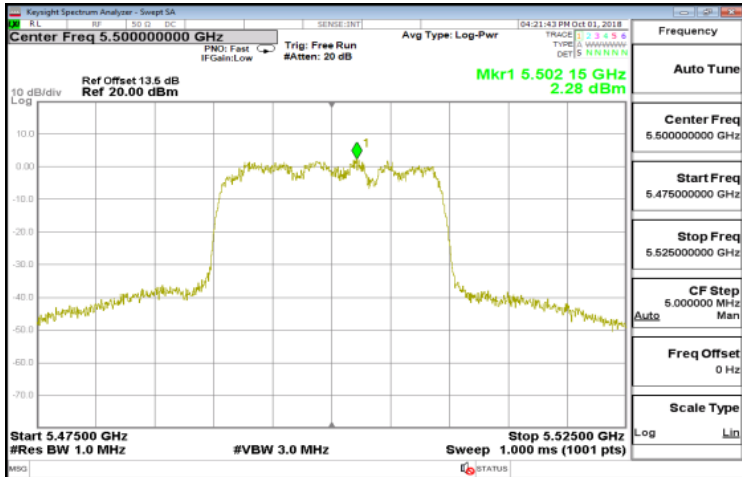
802.11n_20MHz_5320MHz



802.11n_20MHz_5700MHz



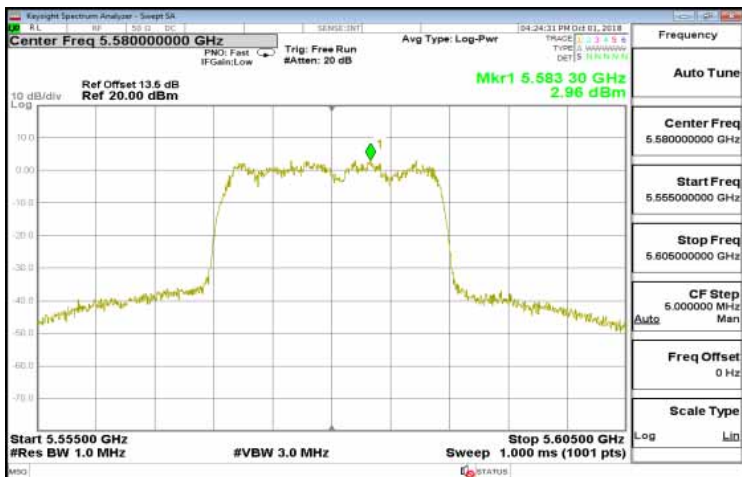
802.11n_20MHz_5500MHz



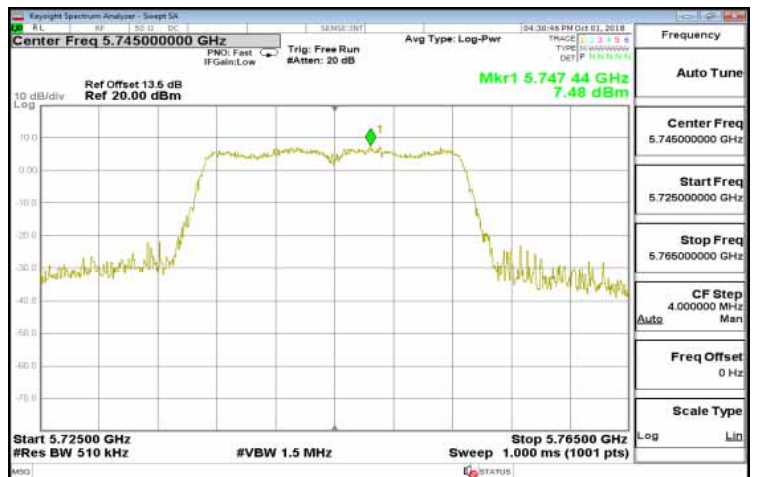
802.11n_20MHz_5720MHz



802.11n_20MHz_5580MHz



802.11n_20MHz_5745MHz



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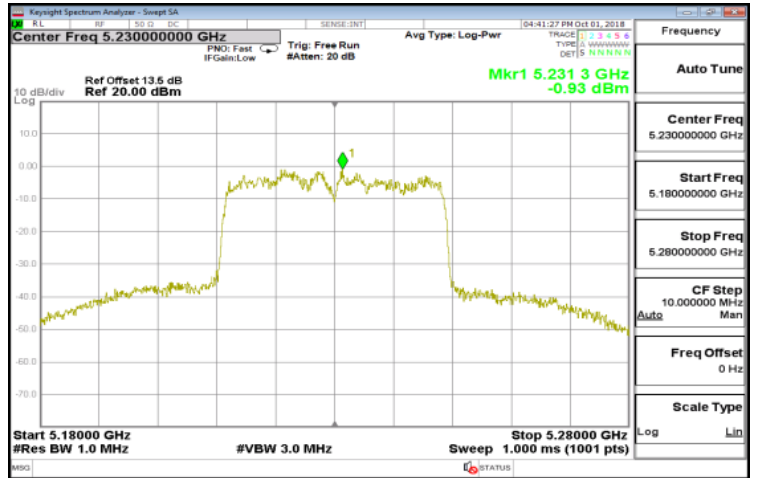
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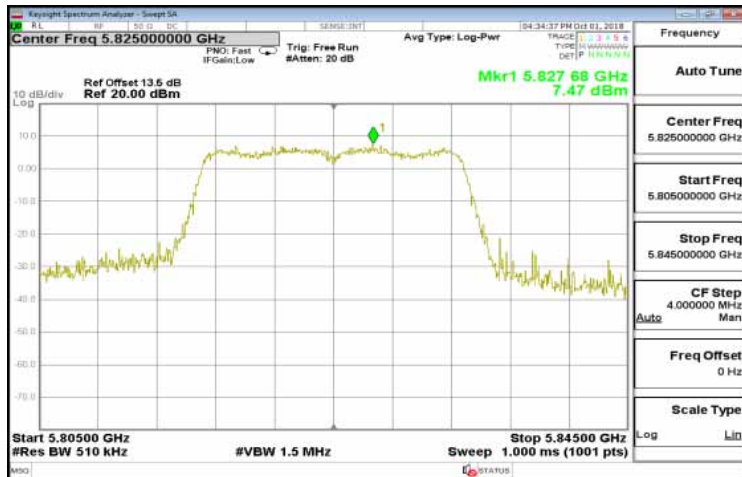
802.11n_20MHz_5785MHz



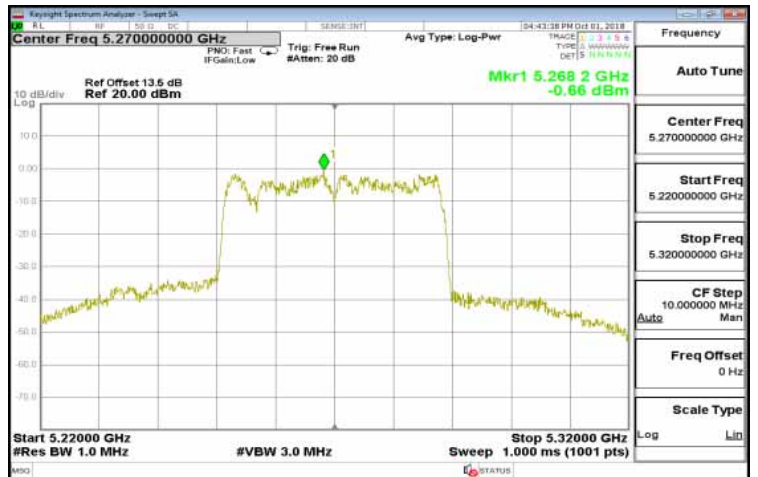
802.11n_40MHz_5230MHz



802.11n_20MHz_5825MHz



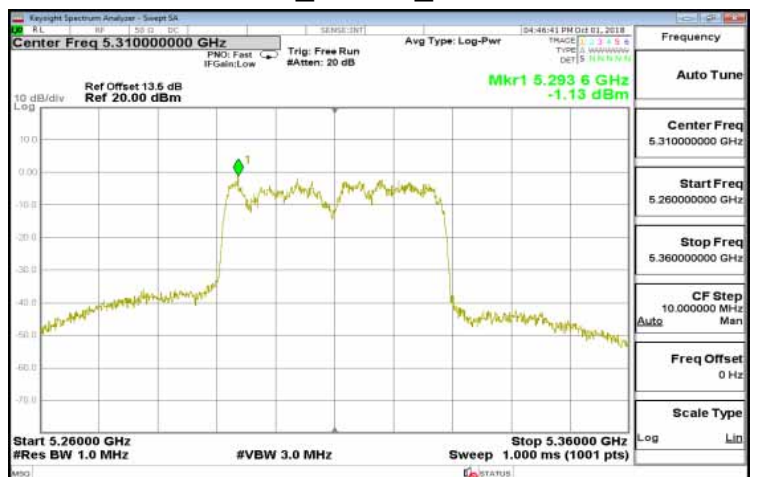
802.11n_40MHz_5270MHz



802.11n_40MHz_5190MHz



802.11n_40MHz_5310MHz

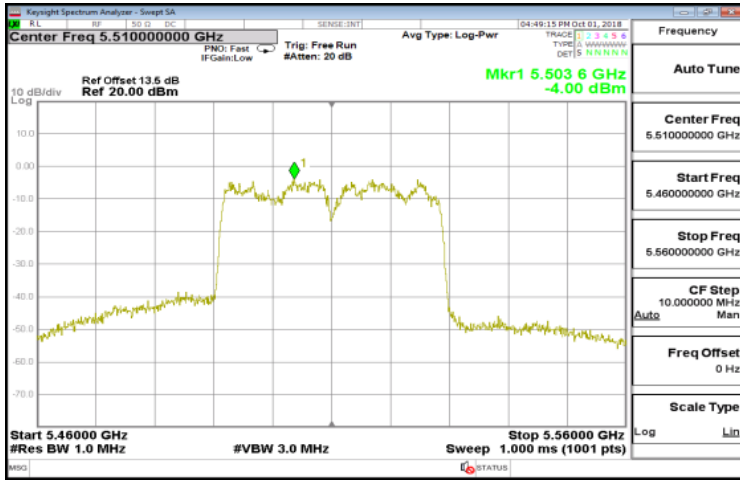


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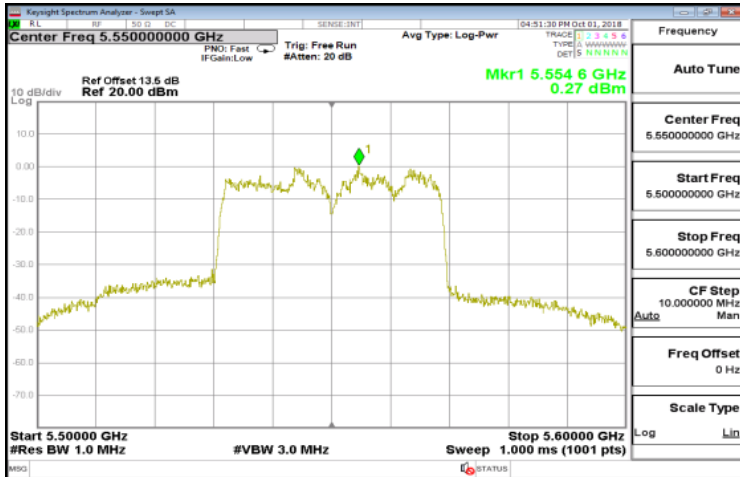
802.11n_40MHz_5510MHz



802.11n_40MHz_5710MHz



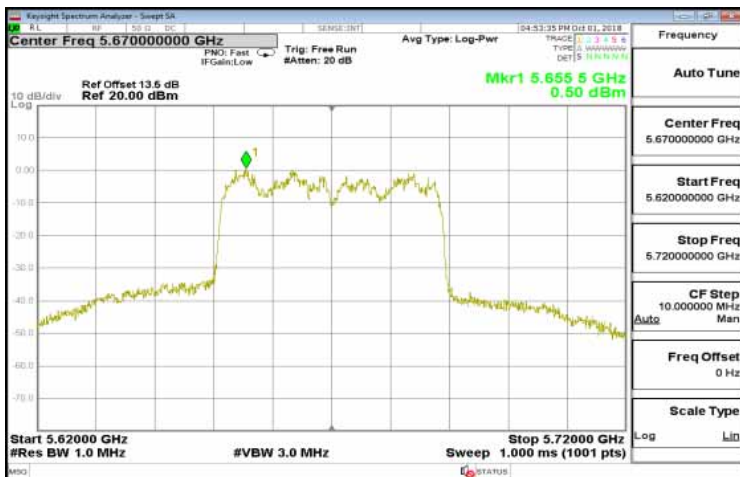
802.11n_40MHz_5550MHz



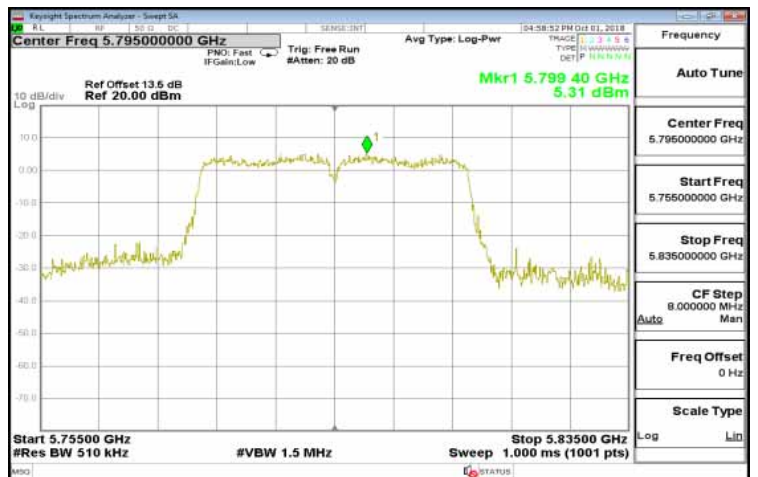
802.11n_40MHz_5755MHz



802.11n_40MHz_5670MHz



802.11n_40MHz_5795MHz



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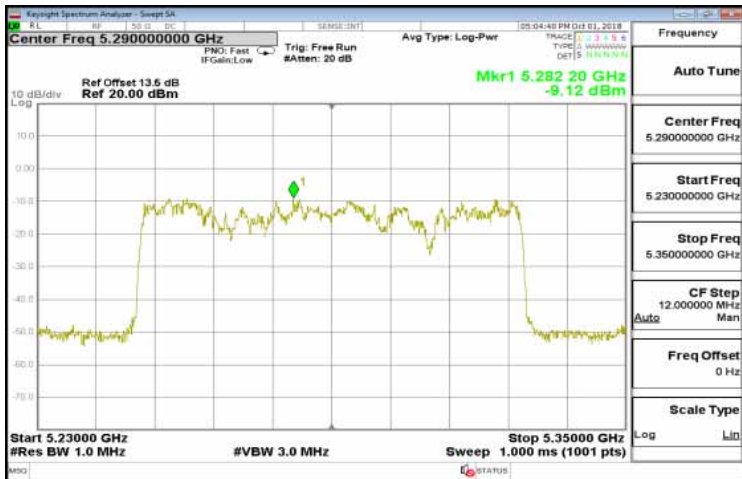
802.11ac_80MHz_5210MHz



802.11ac_80MHz_5610MHz



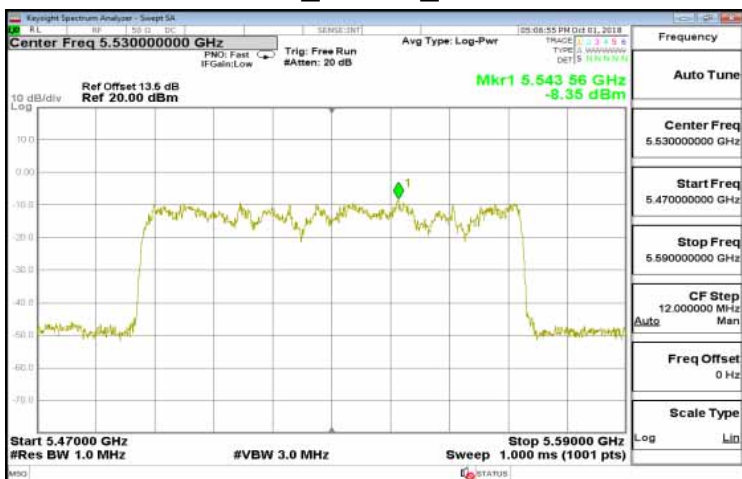
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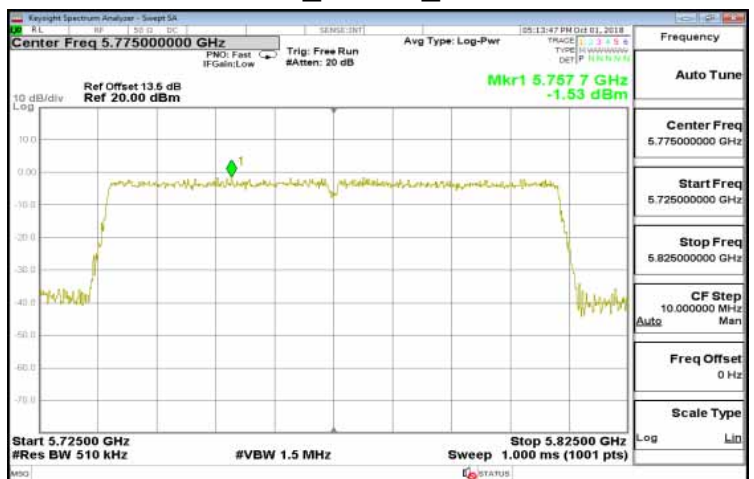
802.11ac_80MHz_5690MHz



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 (dBµV/m)	AV 54 (dBµV/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 (dBµV/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(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equip-ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Bi-log Antenna	SCHWAZBECK	VULB9168	378	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 Instru-ments	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

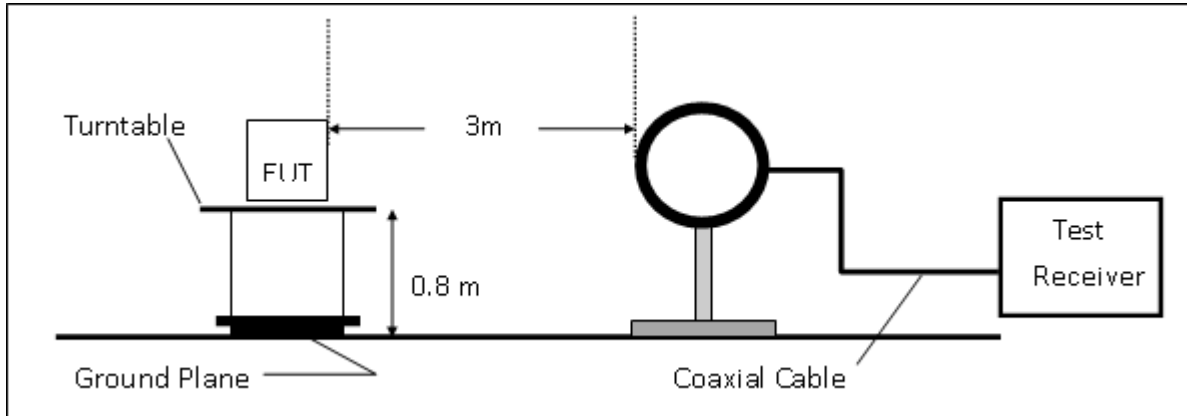
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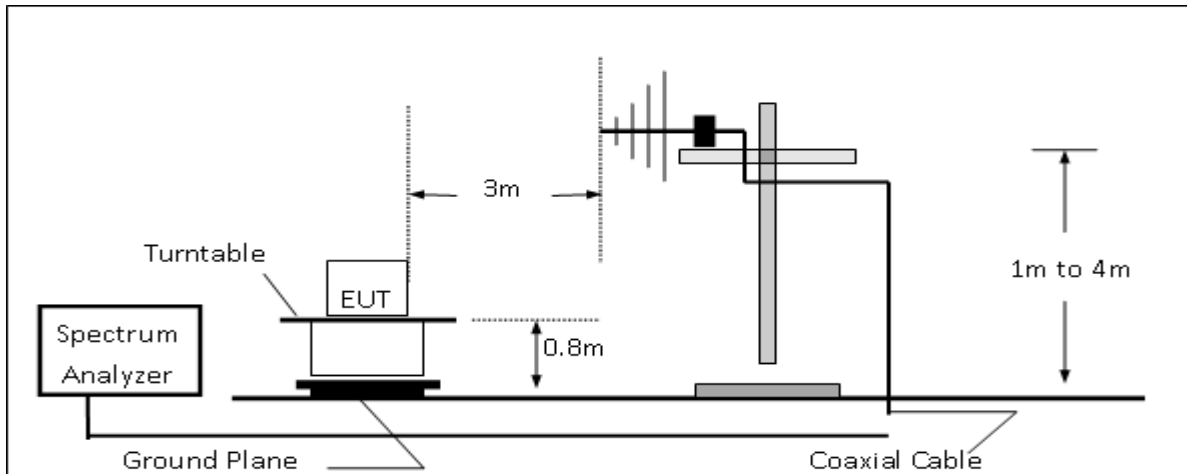
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11.3 Test SET-UP

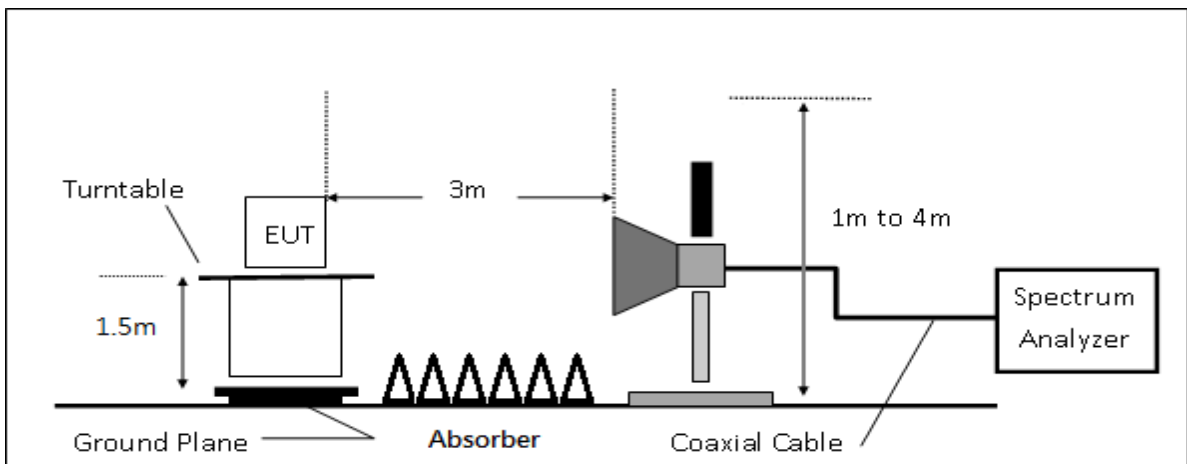
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

$$FS = RA + AF + CL - AG$$

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

Actual FS(dBµV/m) = SPA. Reading level(dBµV) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

11.7 Measurement Result

Refer to next page for tabular data sheets.

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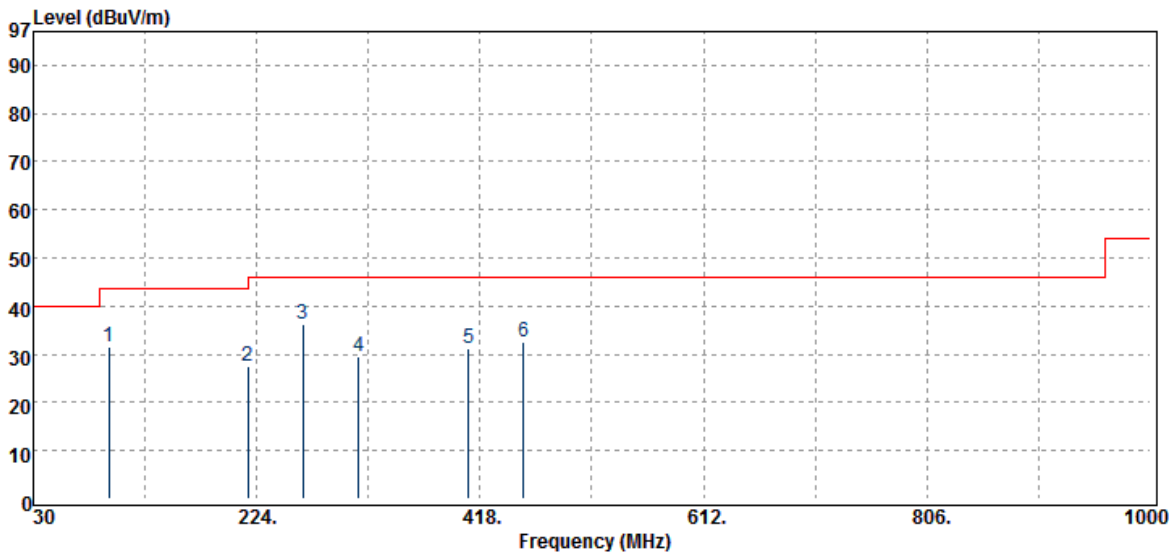
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

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 dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/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

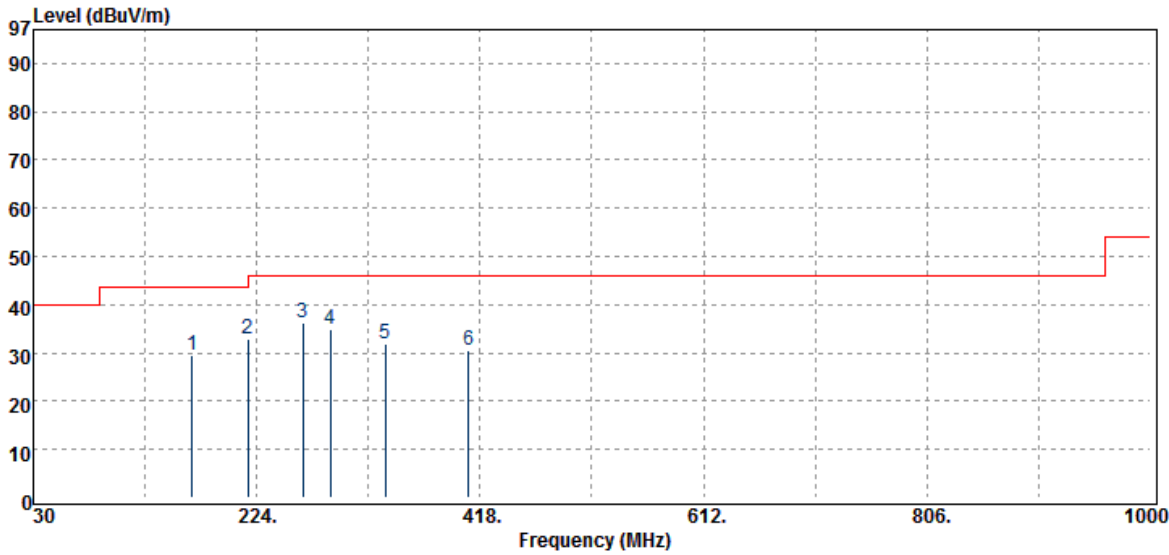
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Operation Band :802.11aB1
 Fundamental Frequency :5220 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/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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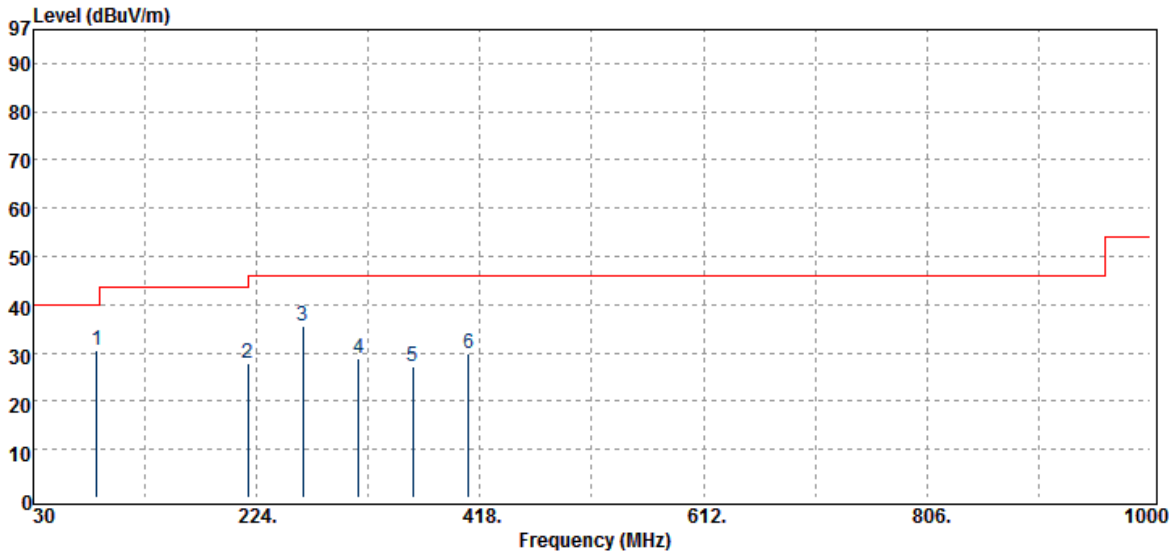
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802.11a 5250~5350 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

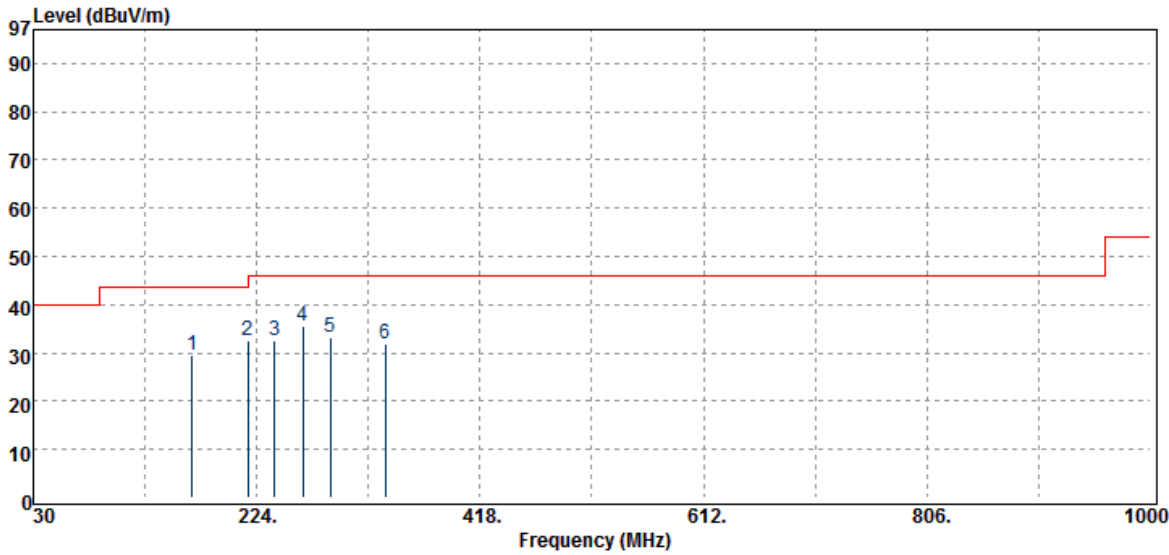
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Operation Band :802.11aB2
 Fundamental Frequency :5300 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/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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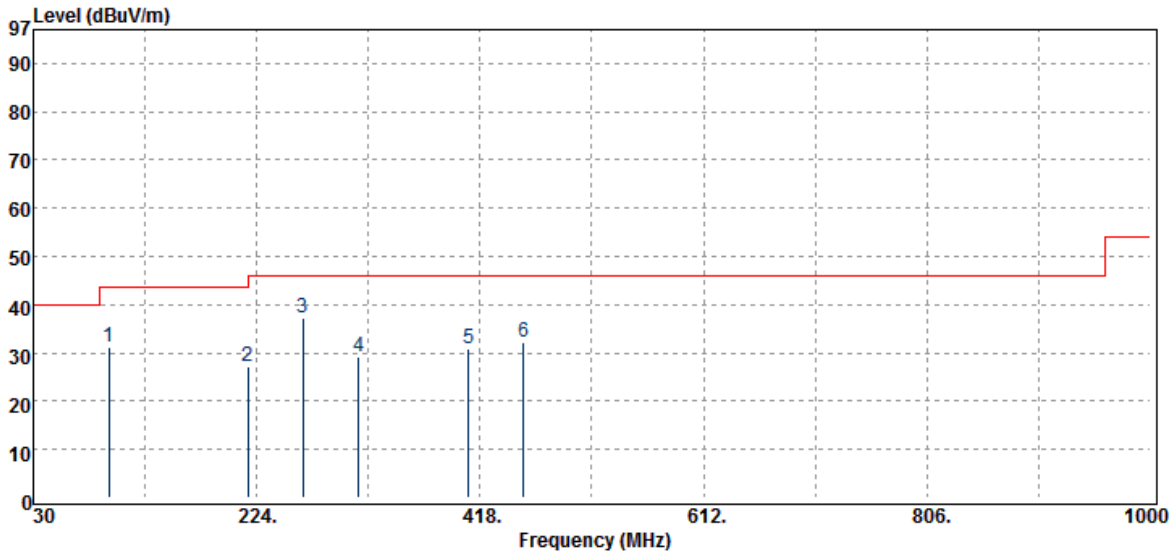
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802.11a, 5470~5725 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

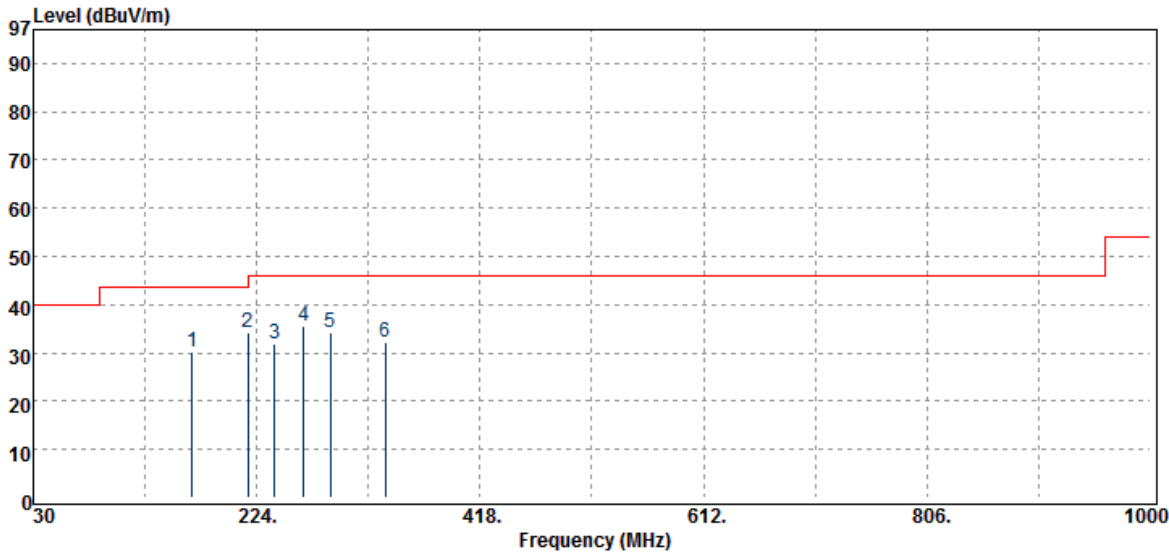
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Operation Band :802.11aB3
 Fundamental Frequency :5580 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/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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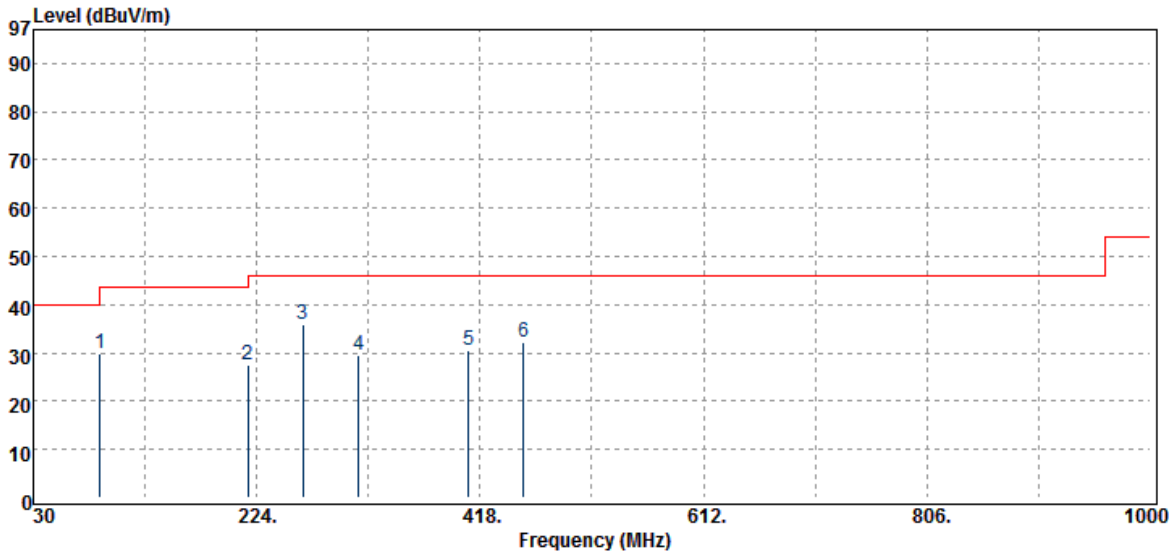
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802.11a, 5725~5850 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

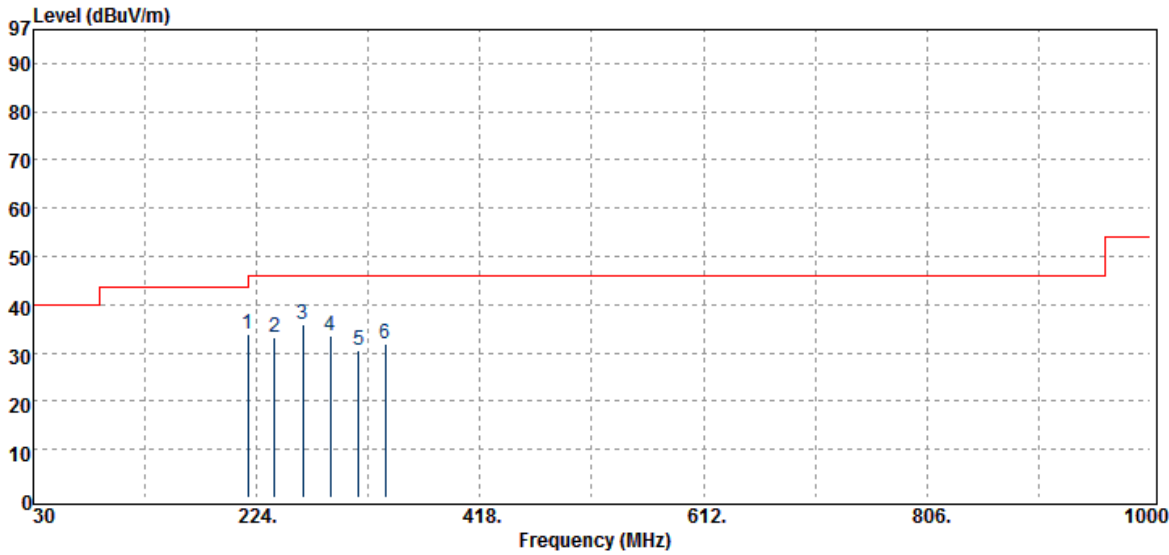
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Operation Band :802.11aB4
 Fundamental Frequency :5785 MHz
 Operation Mode :Tx CH MID
 EUT Pol. :E2 Plane

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/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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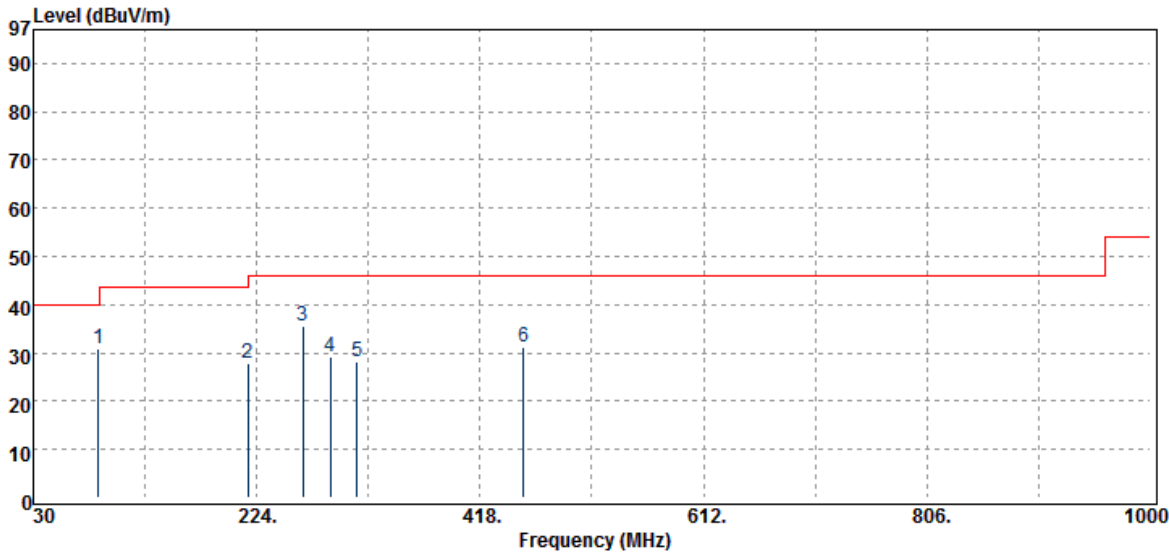
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802.11ac VHT80, 5150~5250 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

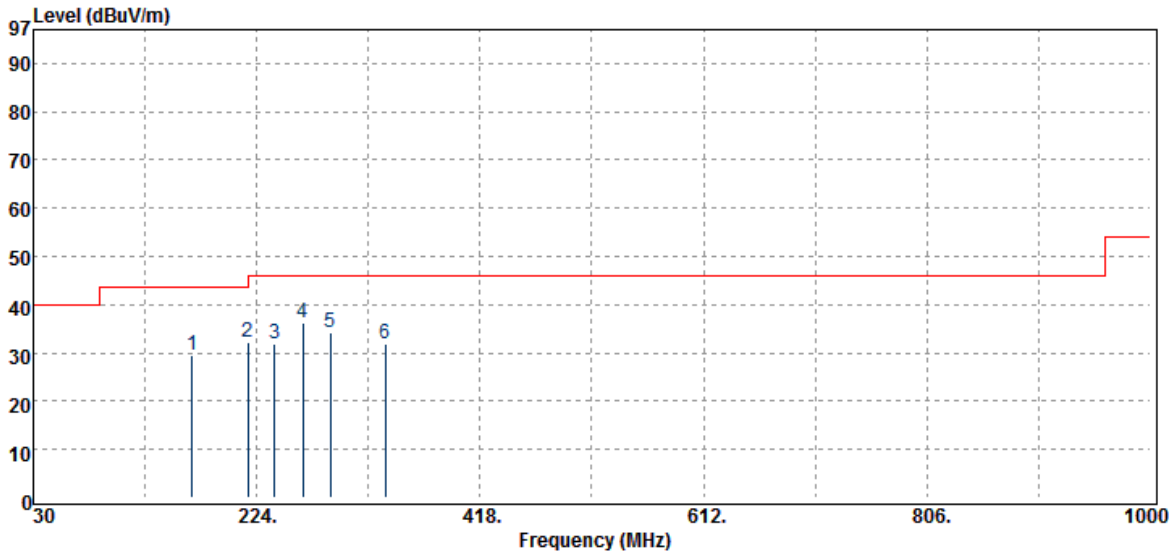
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Operation Band :802.11ac80B1
 Fundamental Frequency :5210 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/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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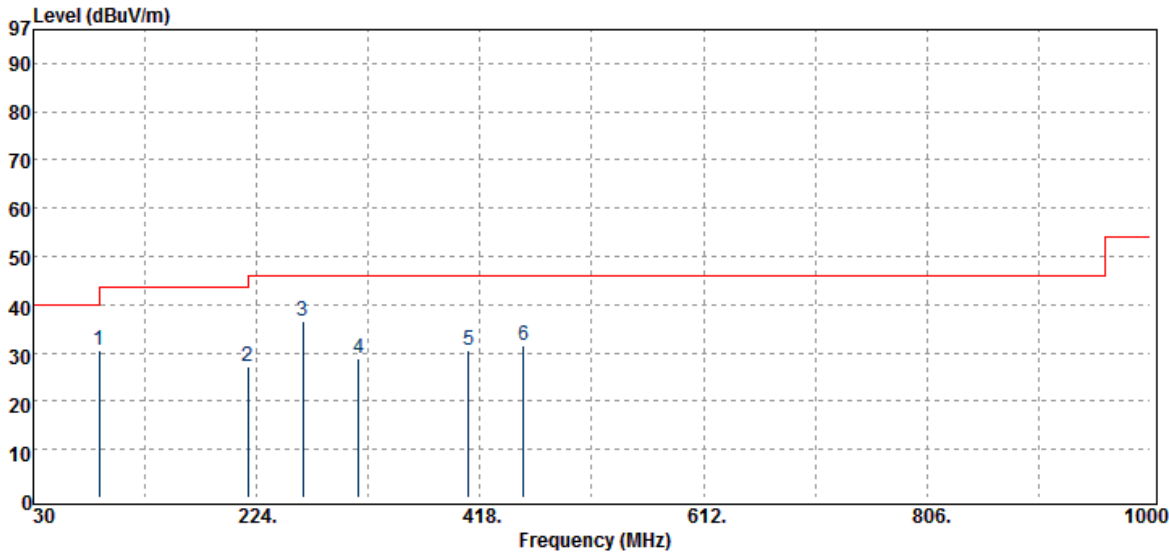
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802.11ac VHT80, 5250~5350 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

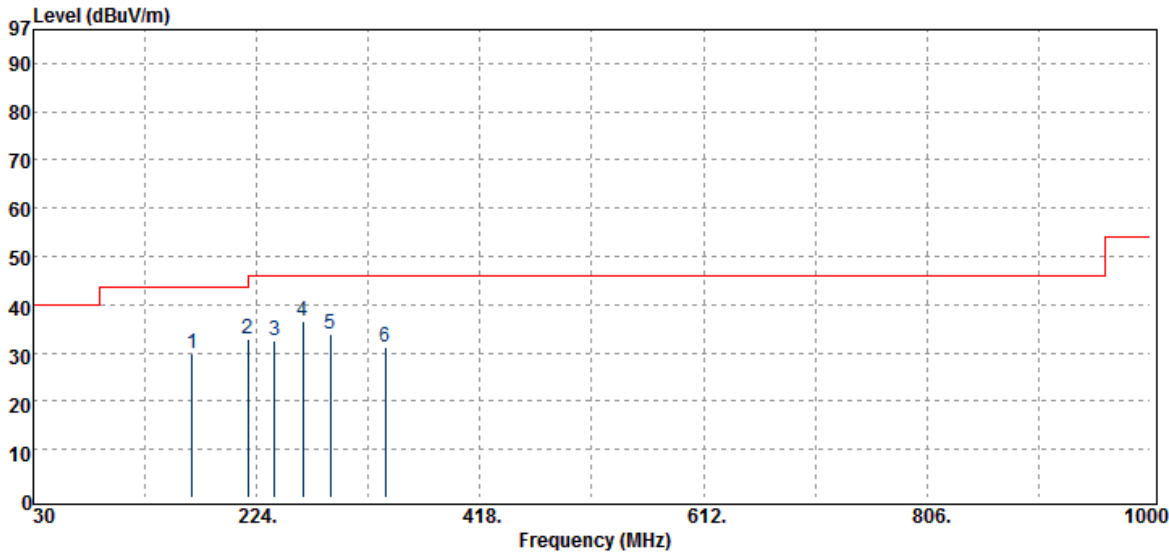
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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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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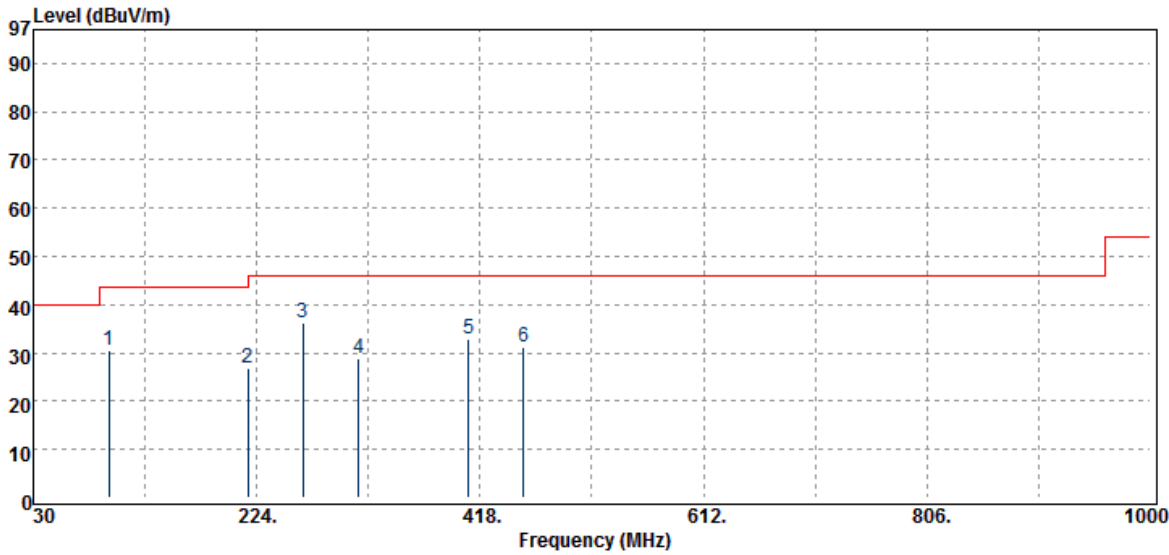
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802.11ac VHT80, 5470~5725 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

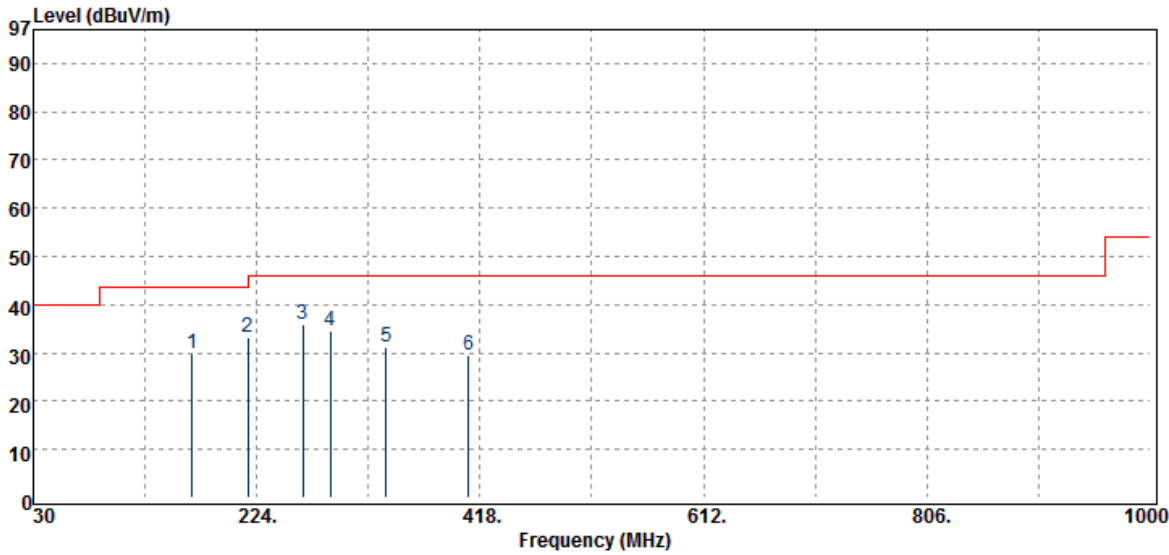
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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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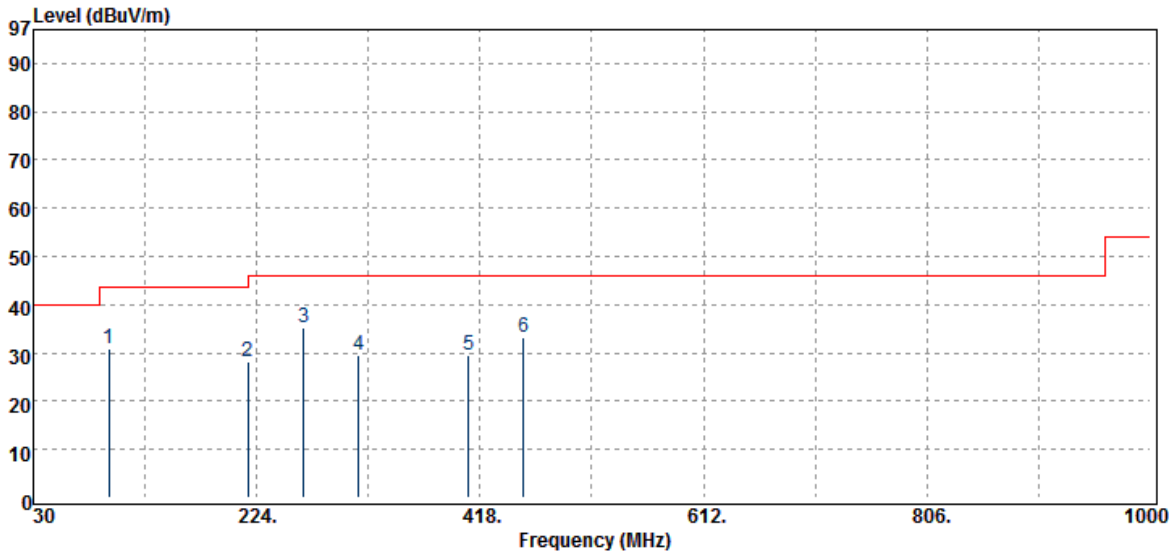
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802.11ac VHT80, 5725~5850 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

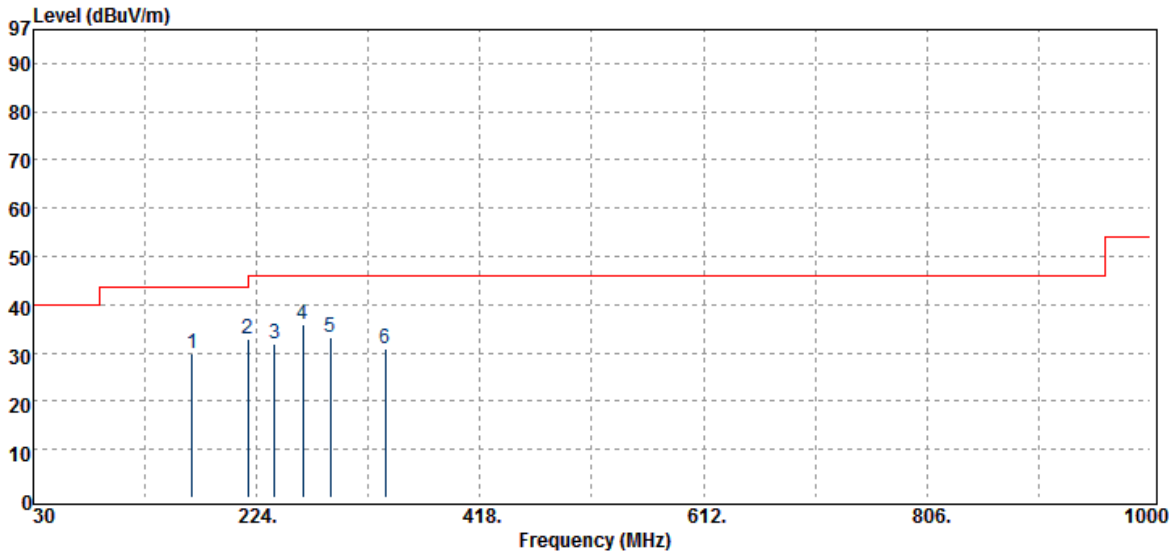
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Operation Band :802.11ac80B4
 Fundamental Frequency :5775 MHz
 Operation Mode :Tx CH LOW
 EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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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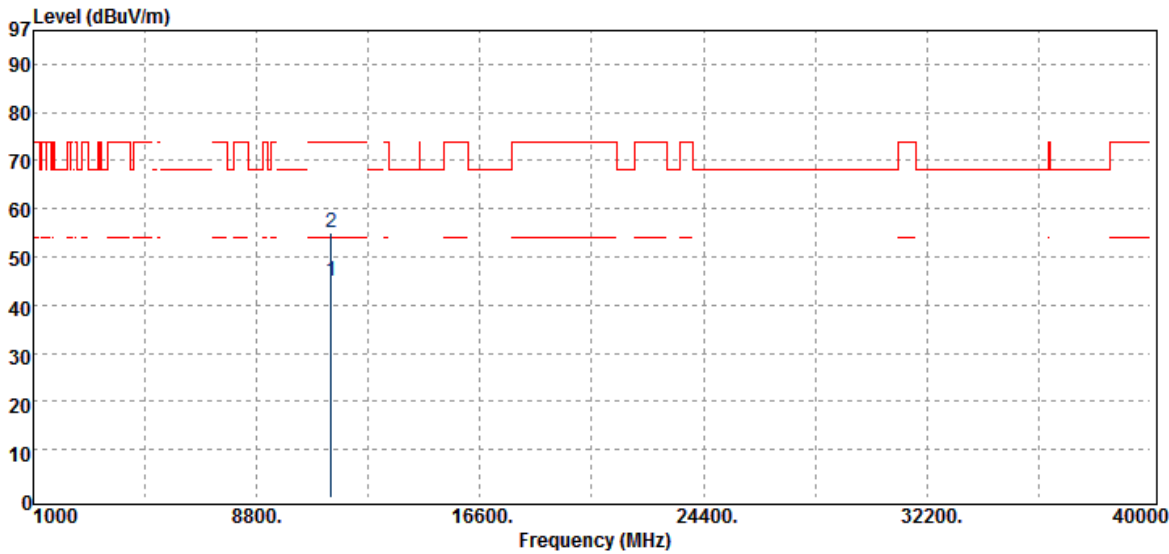
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Above 1GHz Worst-Case Data:

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./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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

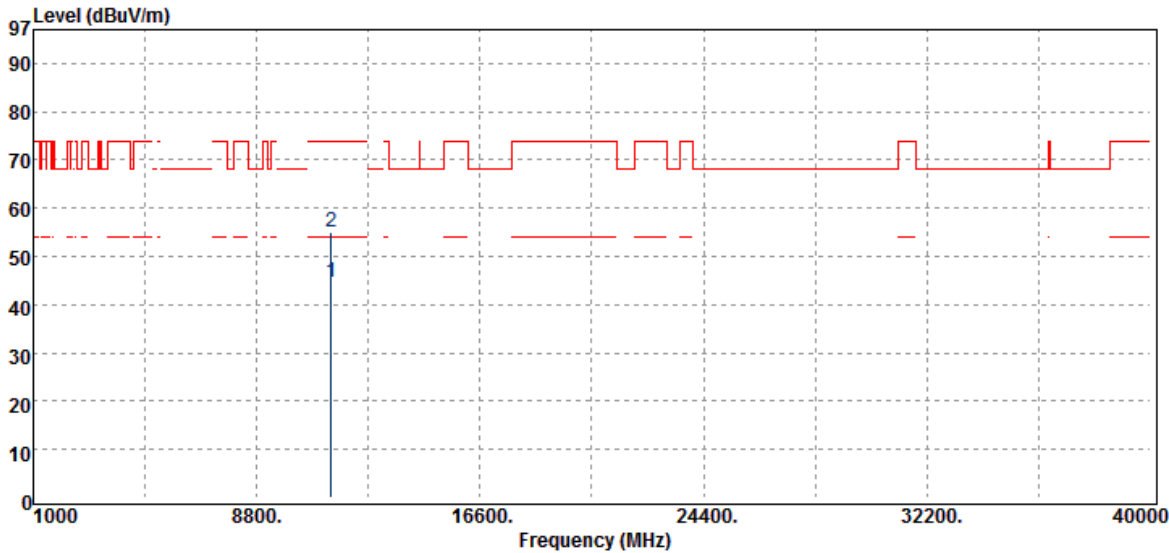
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Operation Band :802.11n20B3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-10-03
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

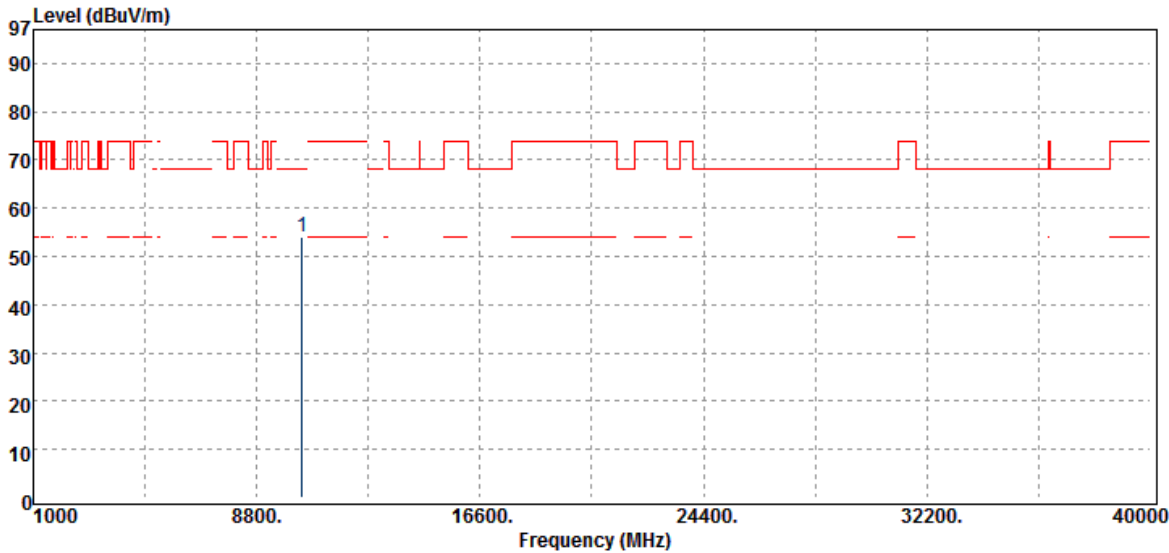
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10380.00	Peak	34.26	19.78	54.04	68.20	-14.16

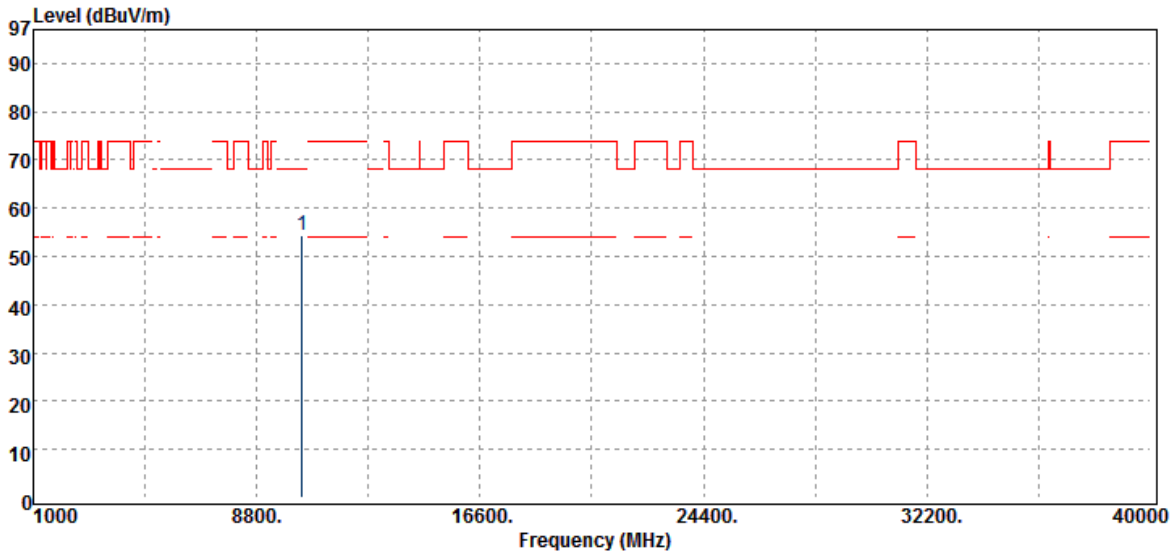
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Operation Band :802.11n40B1
Fundamental Frequency :5190 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	Peak	34.46	19.78	54.24	68.20	-13.96

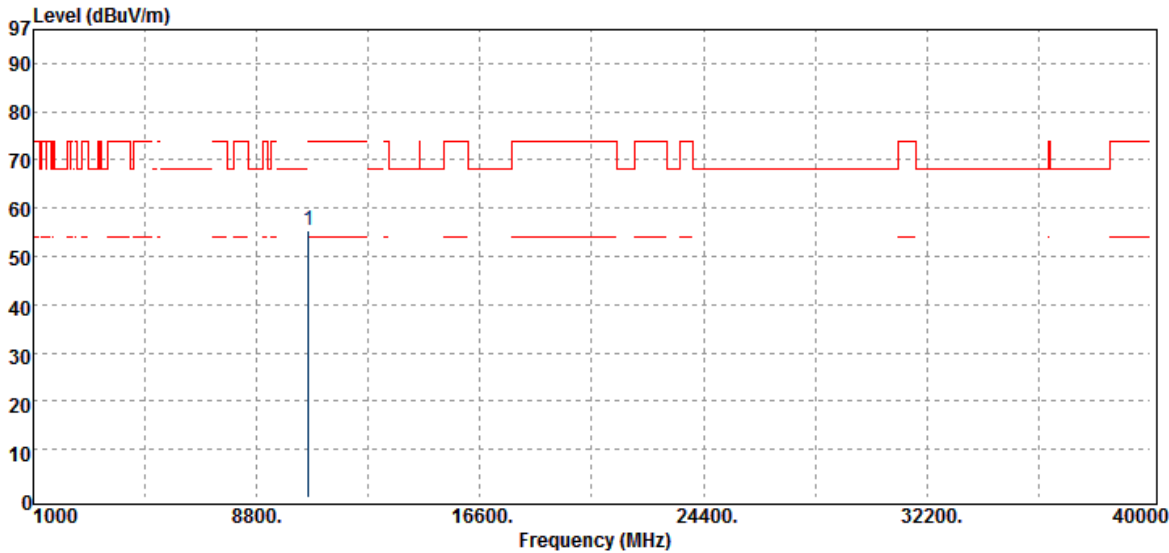
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	Peak	34.90	20.41	55.31	74.00	-18.69

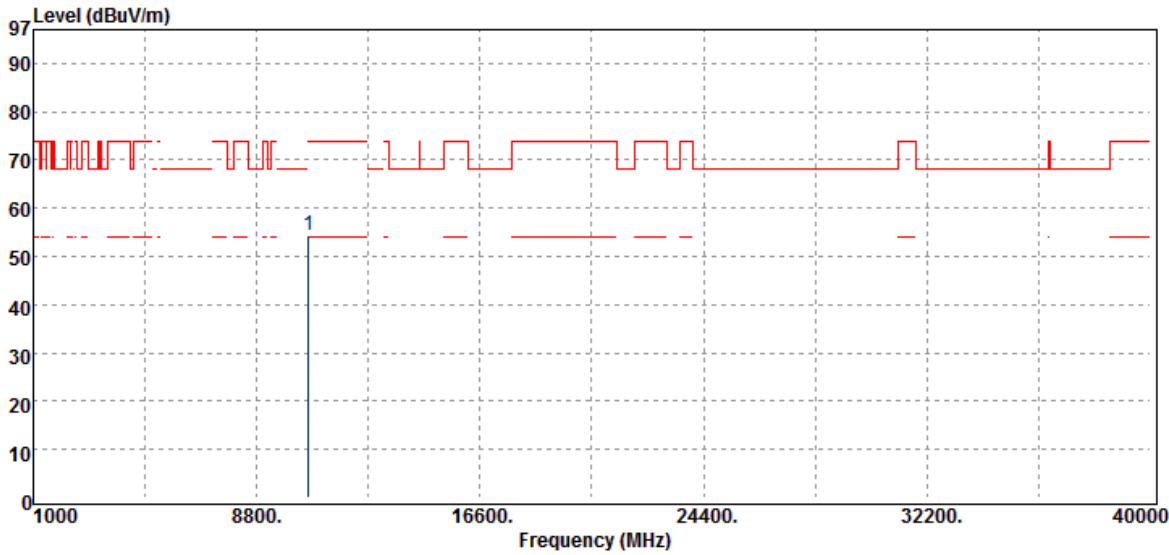
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Operation Band :802.11n40B2
Fundamental Frequency :5310 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10620.00	Peak	33.91	20.41	54.32	74.00	-19.68

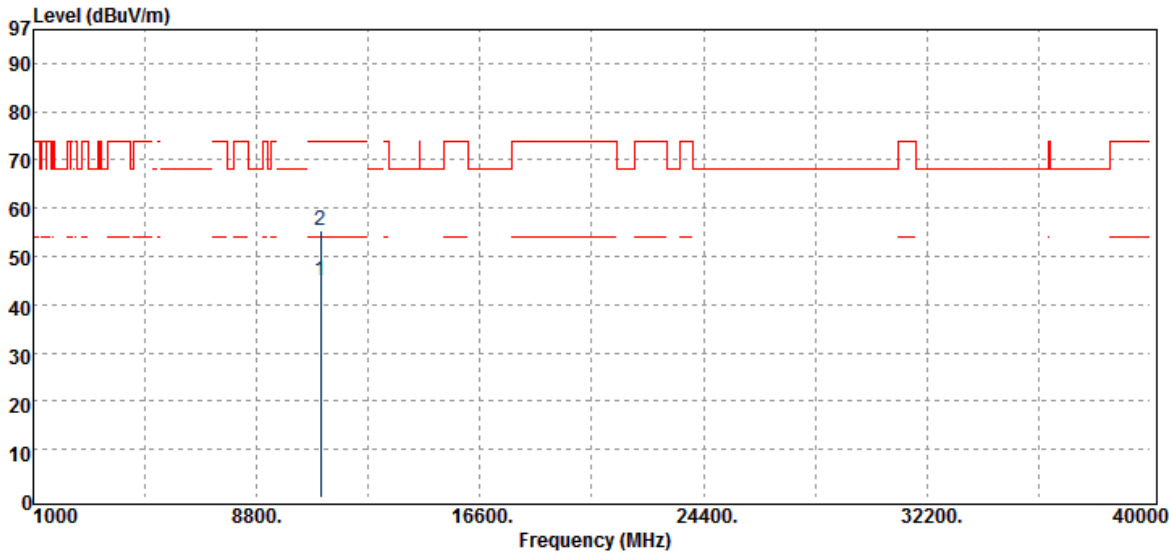
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

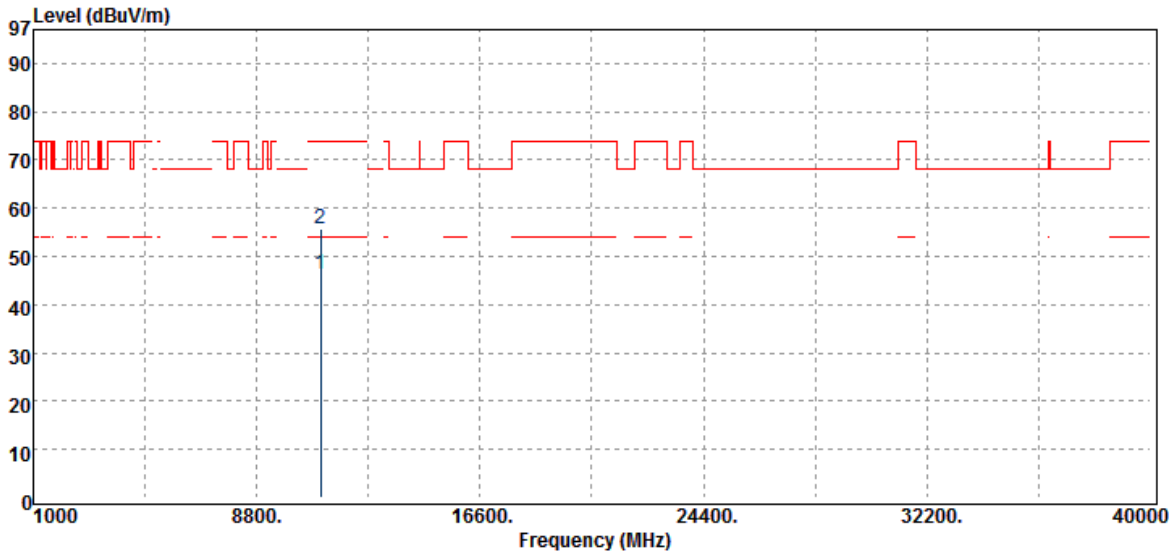
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Operation Band :802.11n40B3
Fundamental Frequency :5510 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

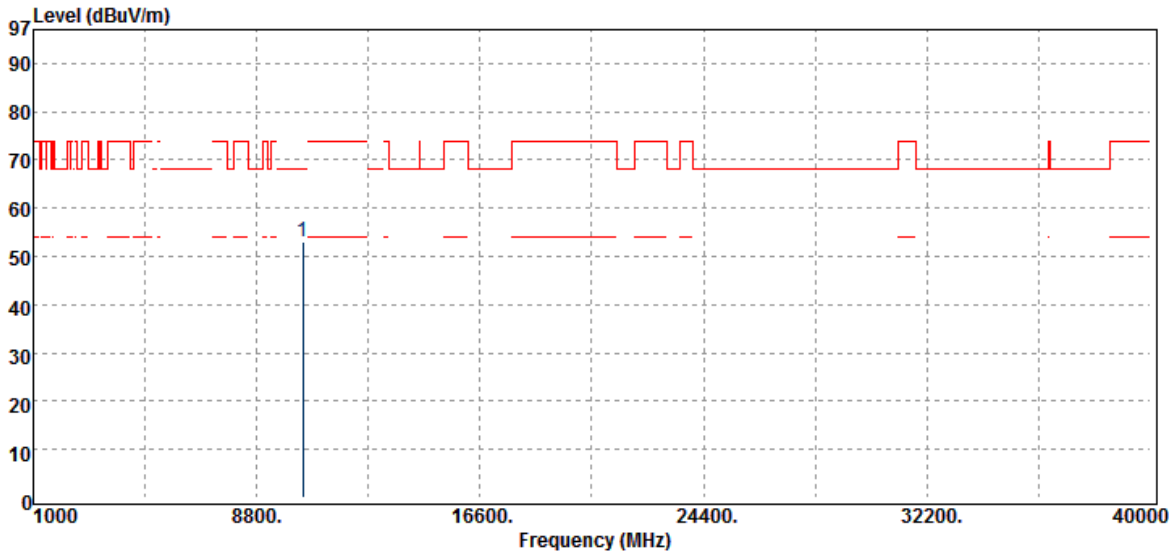
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

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



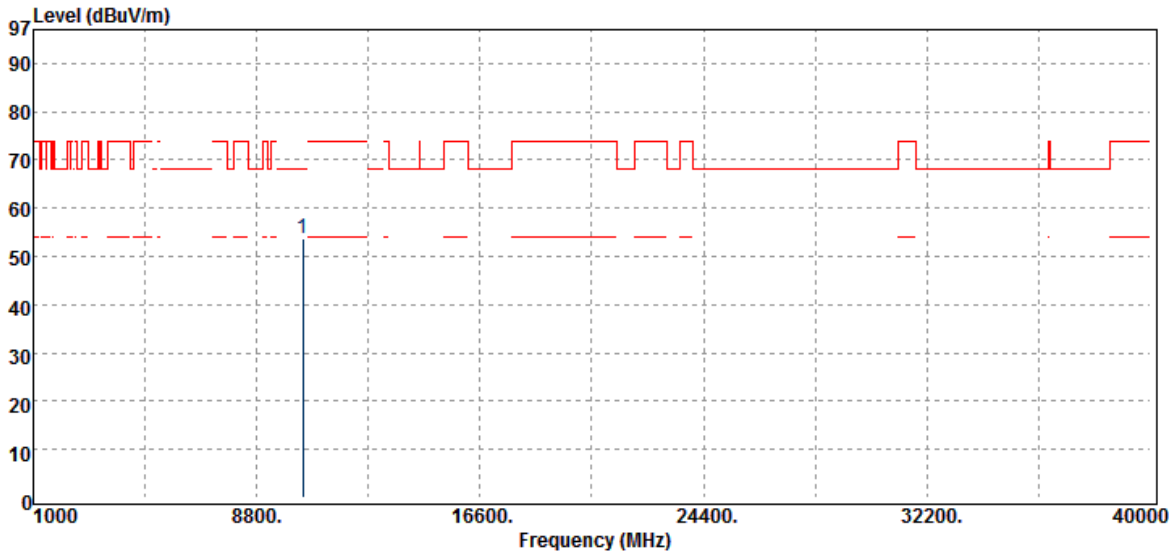
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10420.00	Peak	33.02	19.99	53.01	68.20	-15.19

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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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10420.00	Peak	33.68	19.99	53.67	68.20	-14.53

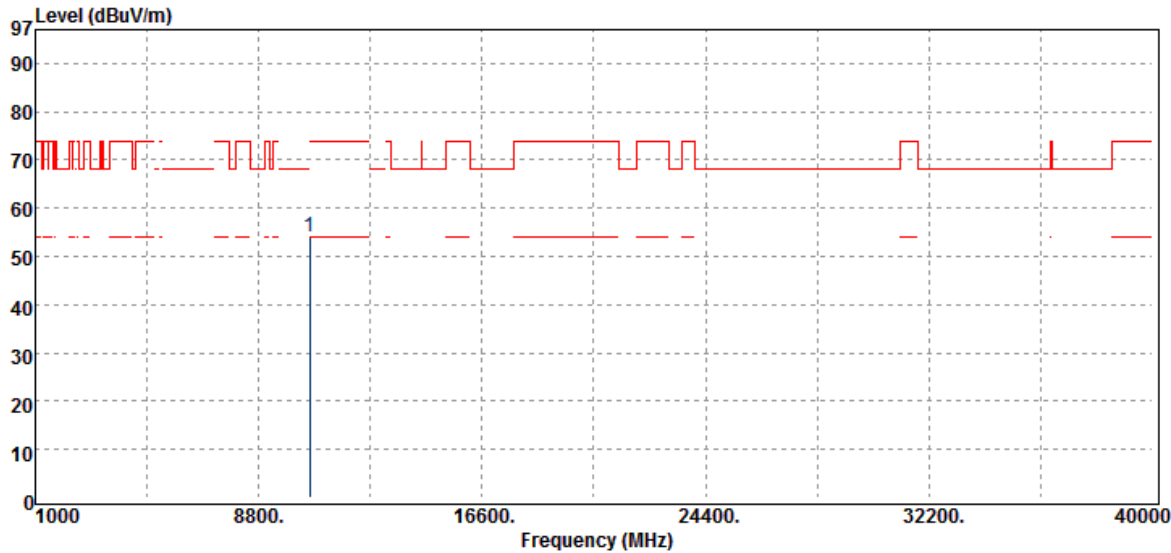
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	Peak	33.95	20.23	54.18	68.20	-14.02

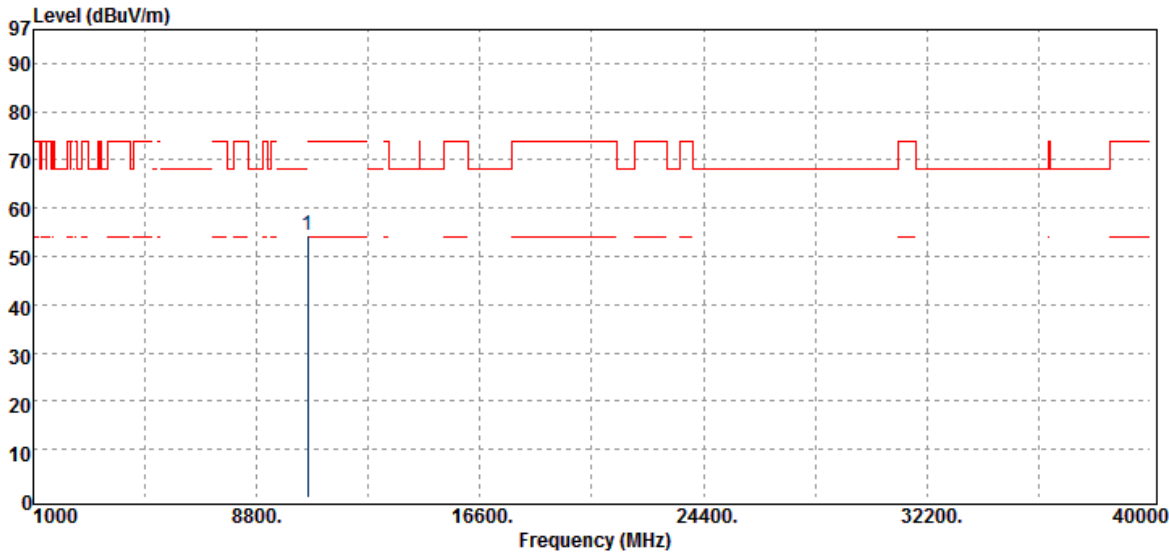
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Operation Band :802.11ac80B2
Fundamental Frequency :5290 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	Peak	34.25	20.23	54.48	68.20	-13.72

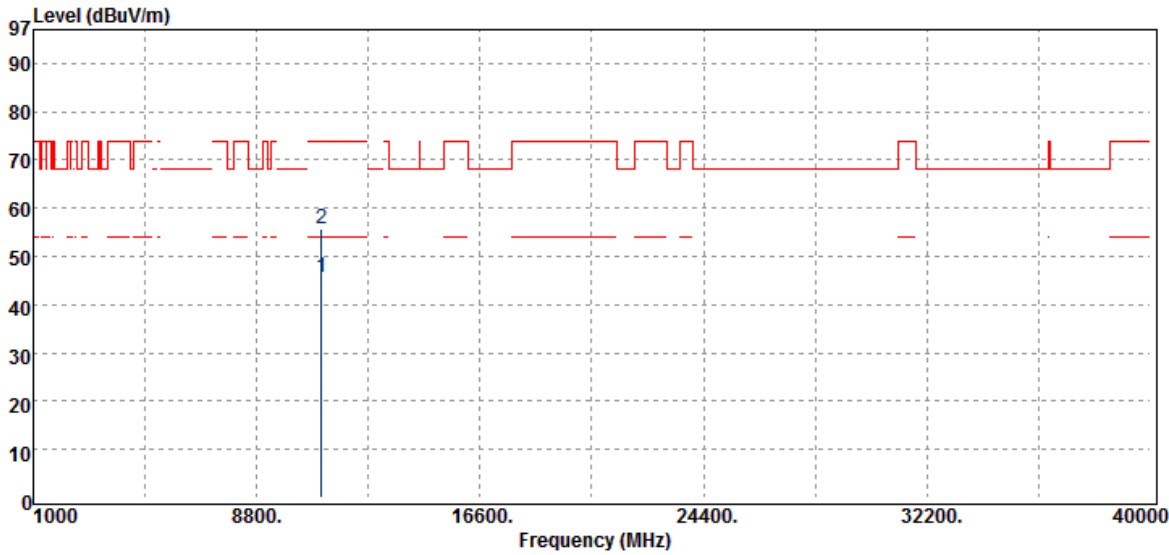
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

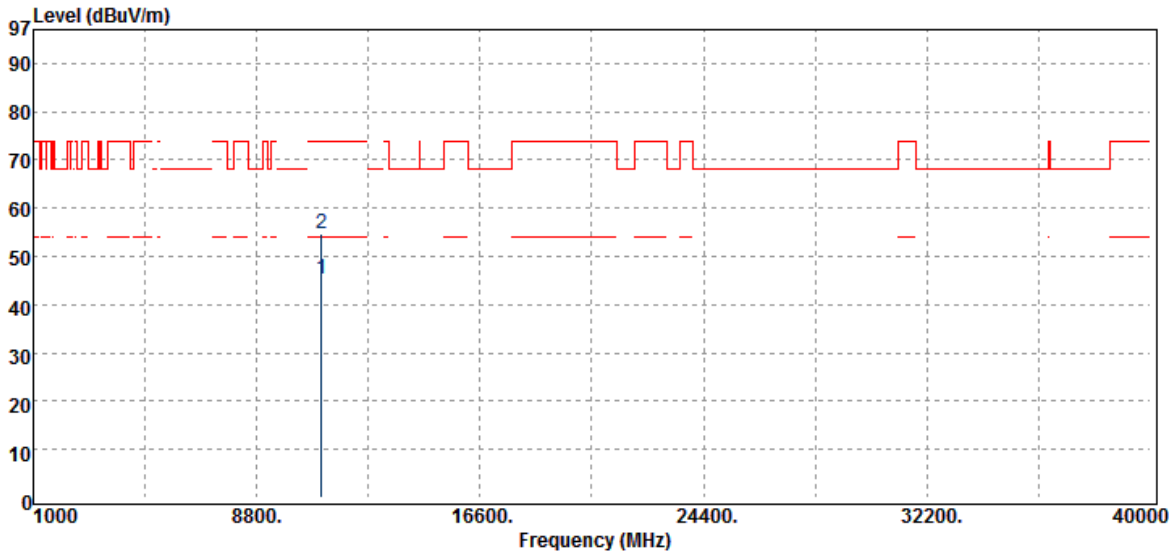
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Operation Band :802.11ac80B3
Fundamental Frequency :5530 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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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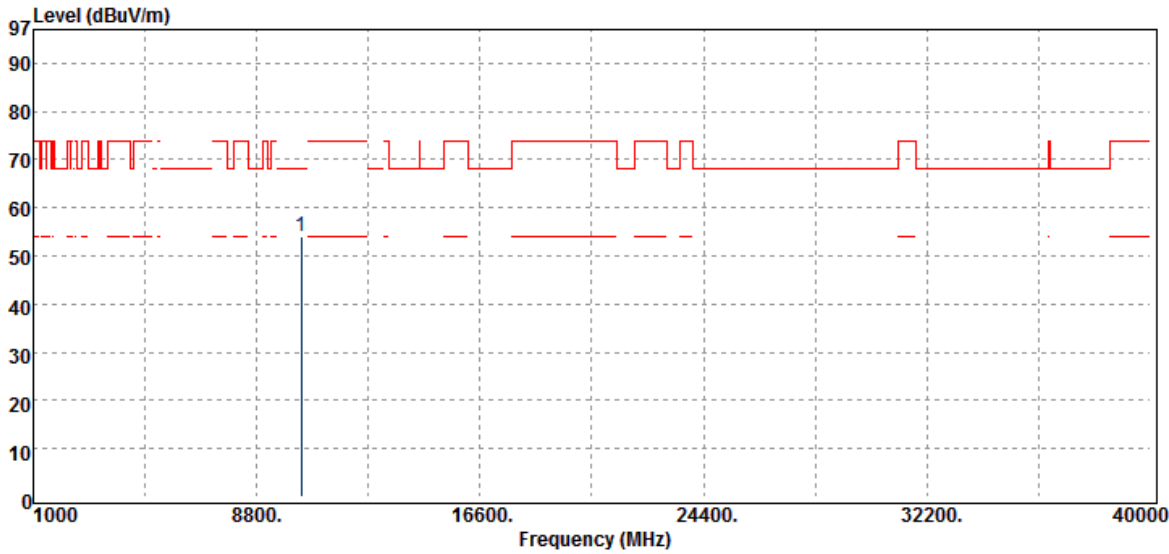
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Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

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 dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	34.32	19.71	54.03	68.20	-14.17

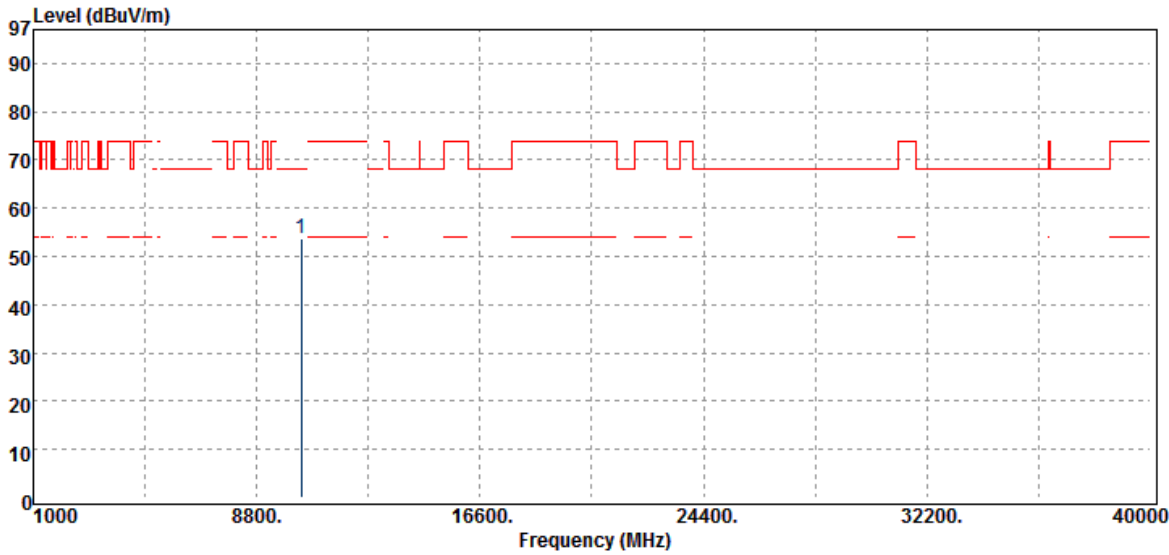
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Operation Band :802.11aB1
Fundamental Frequency :5180 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	Peak	34.02	19.71	53.73	68.20	-14.47

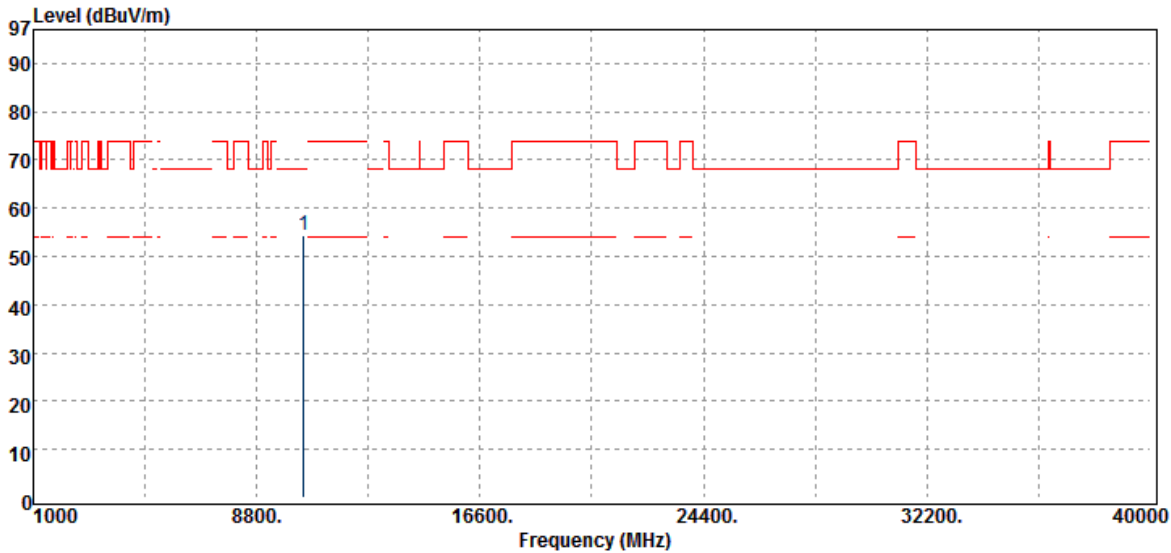
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	34.19	20.05	54.24	68.20	-13.96

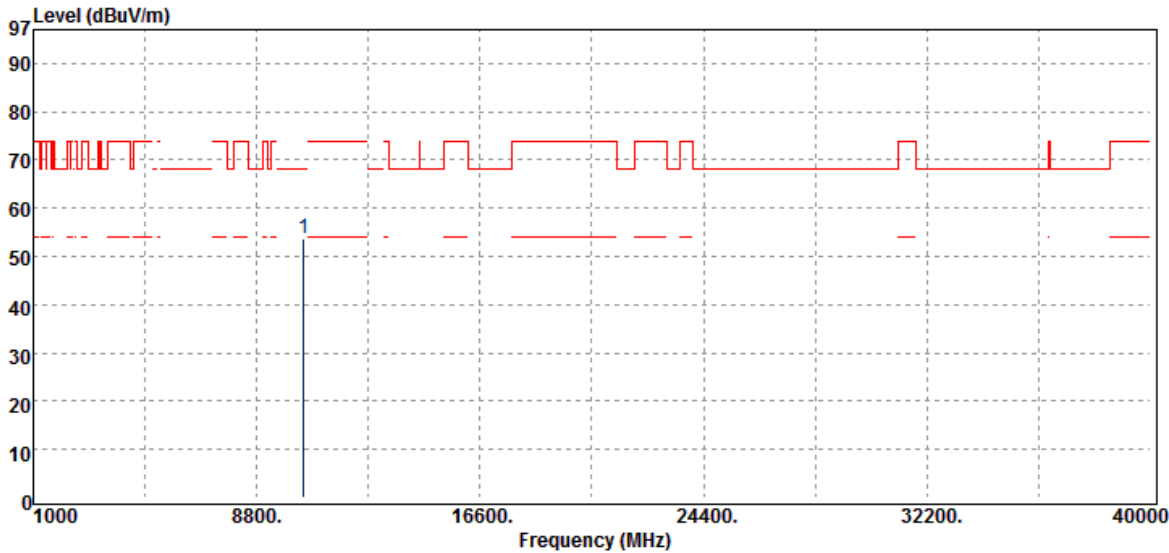
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Operation Band :802.11aB1
Fundamental Frequency :5220 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

Test Date :2018-10-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



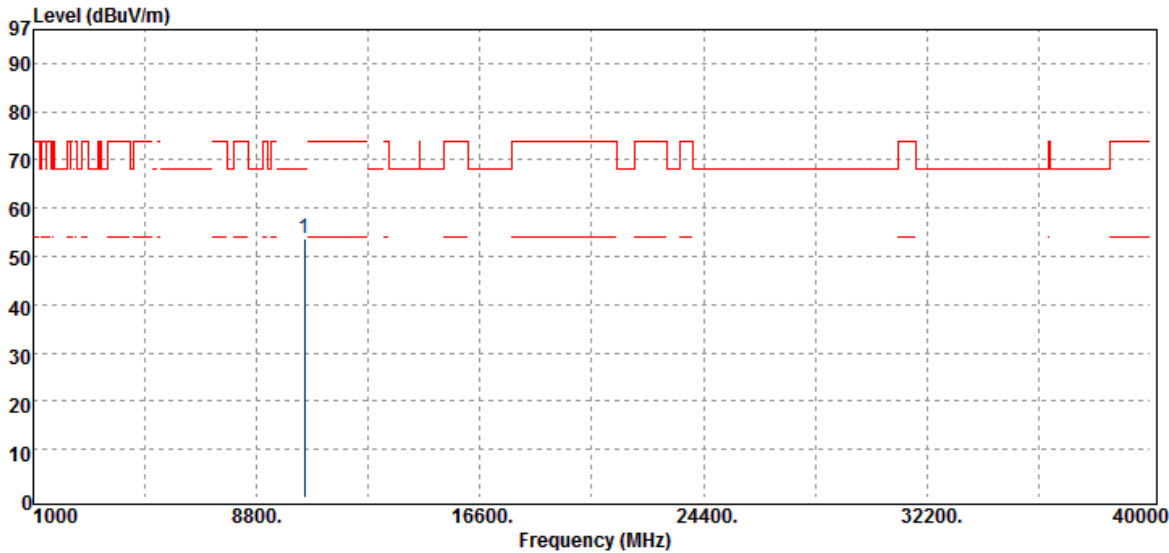
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	Peak	33.76	20.05	53.81	68.20	-14.39

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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.	:VERTICAL



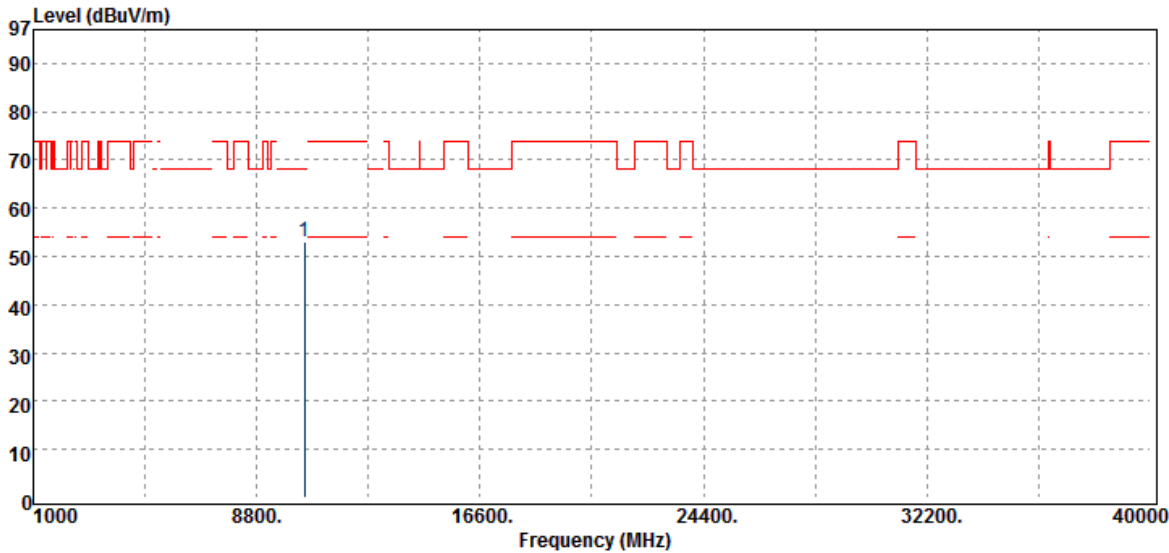
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	33.71	20.07	53.78	68.20	-14.42

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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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10480.00	Peak	33.06	20.07	53.13	68.20	-15.07

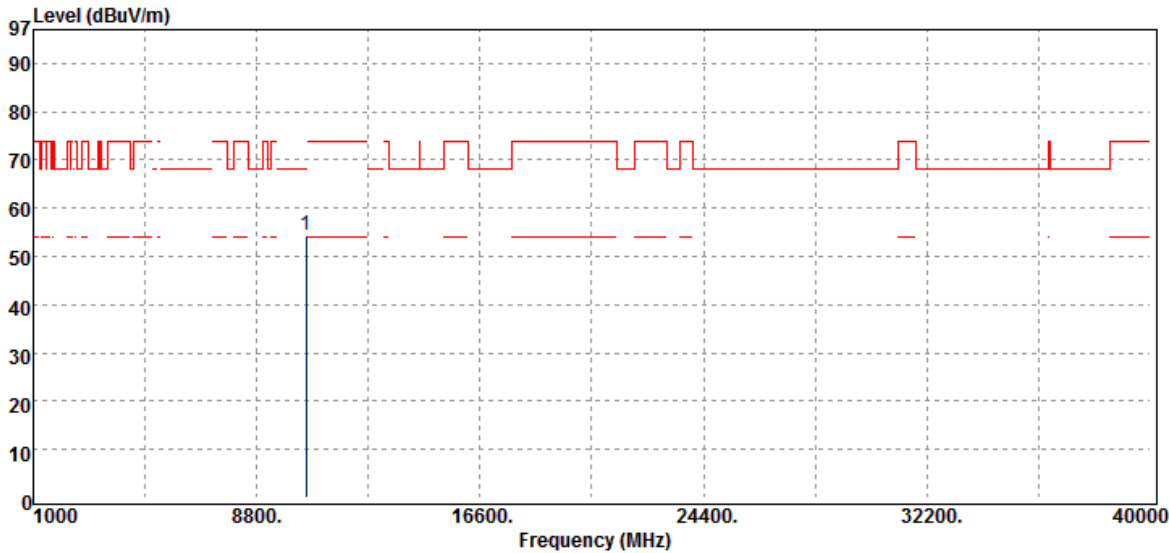
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	Peak	34.21	20.00	54.21	68.20	-13.99

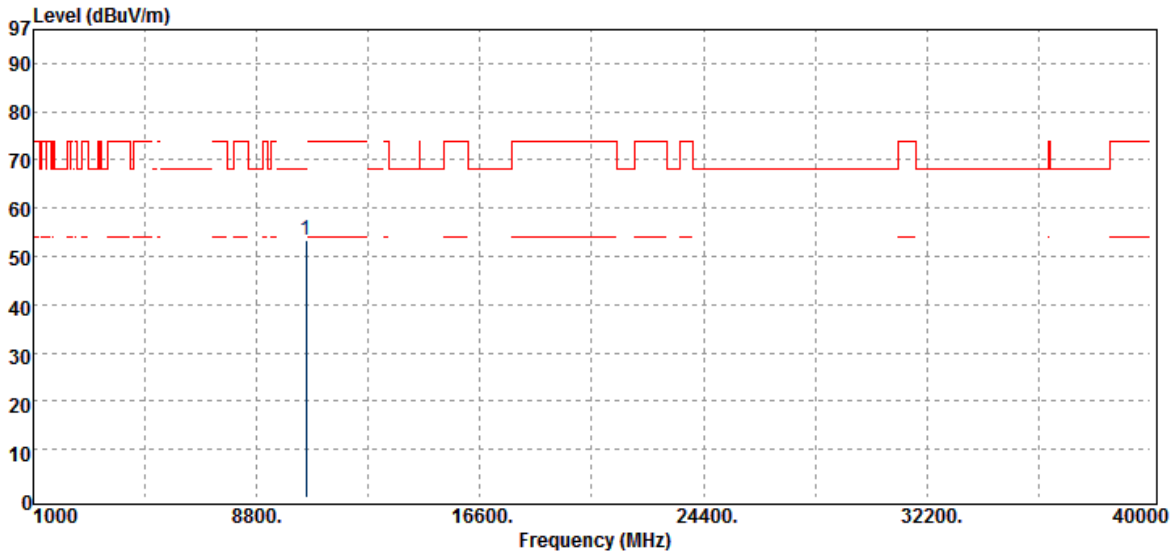
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Operation Band :802.11aB2
Fundamental Frequency :5260 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	Peak	33.39	20.00	53.39	68.20	-14.81

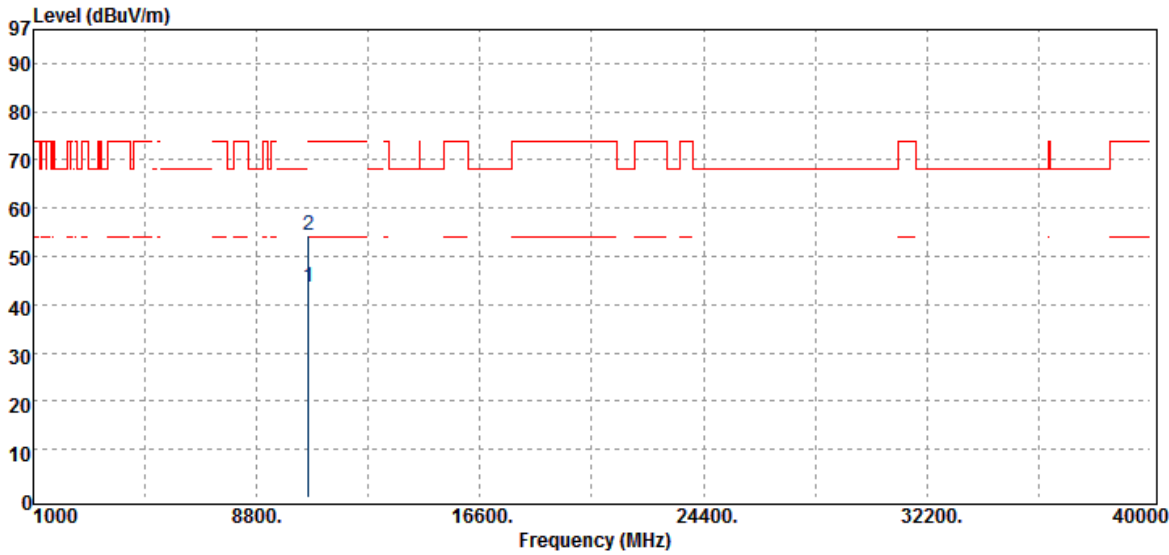
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

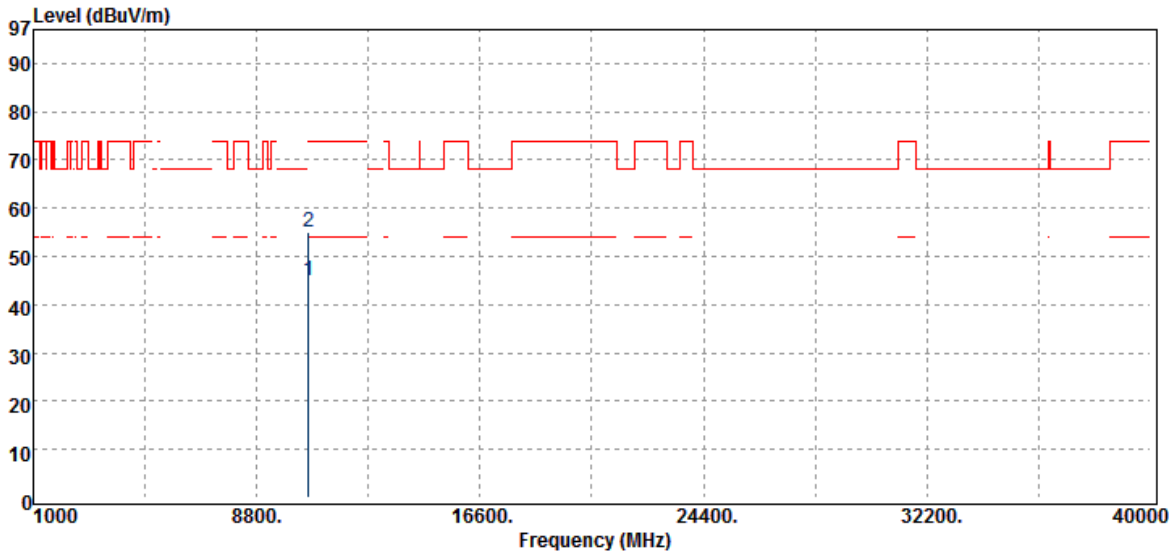
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Operation Band :802.11aB2
Fundamental Frequency :5300 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

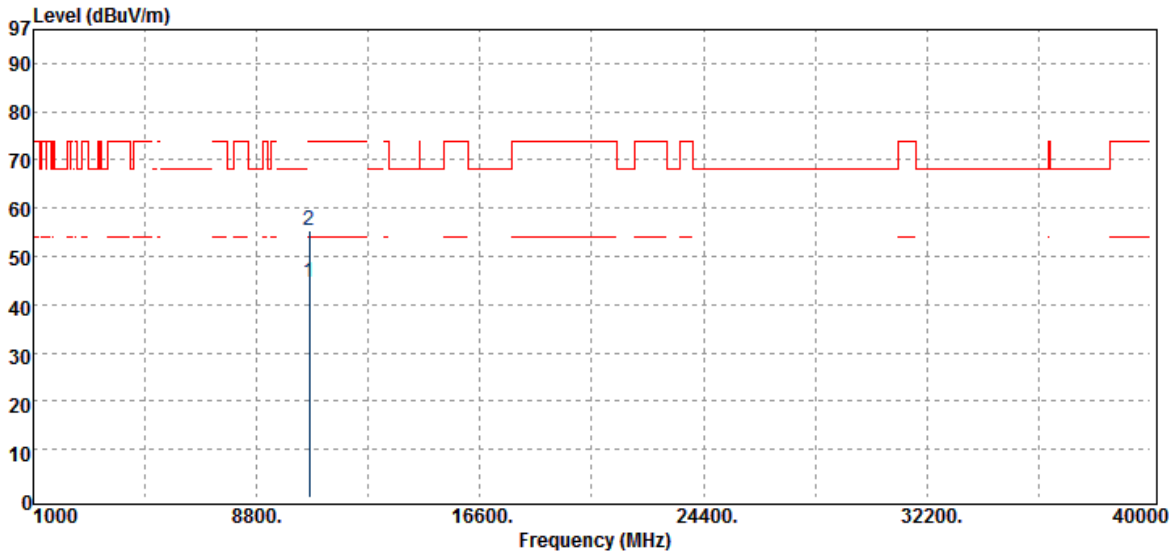
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

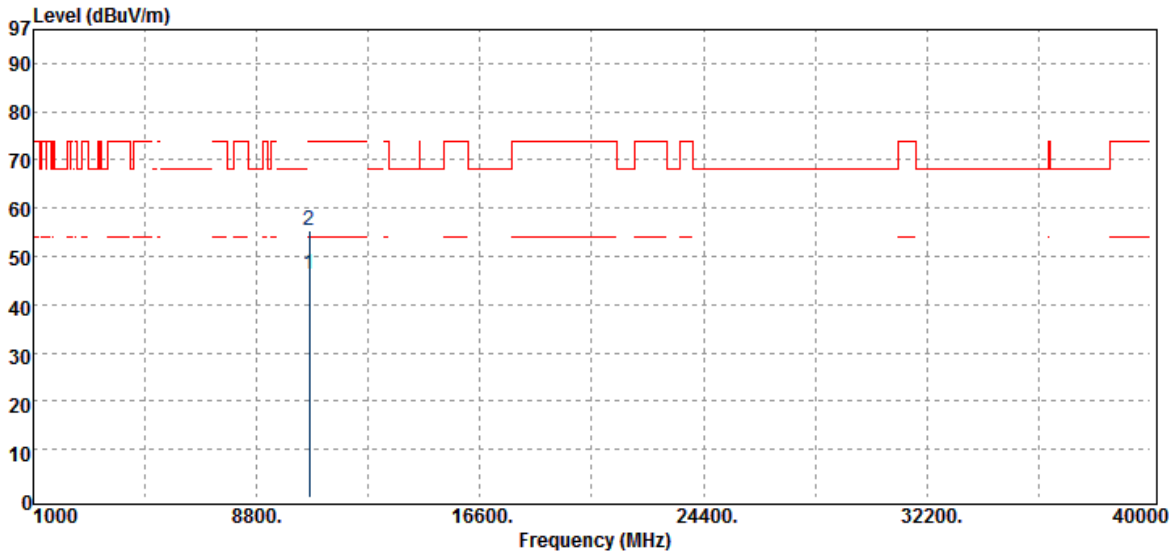
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Operation Band :802.11aB2
Fundamental Frequency :5320 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

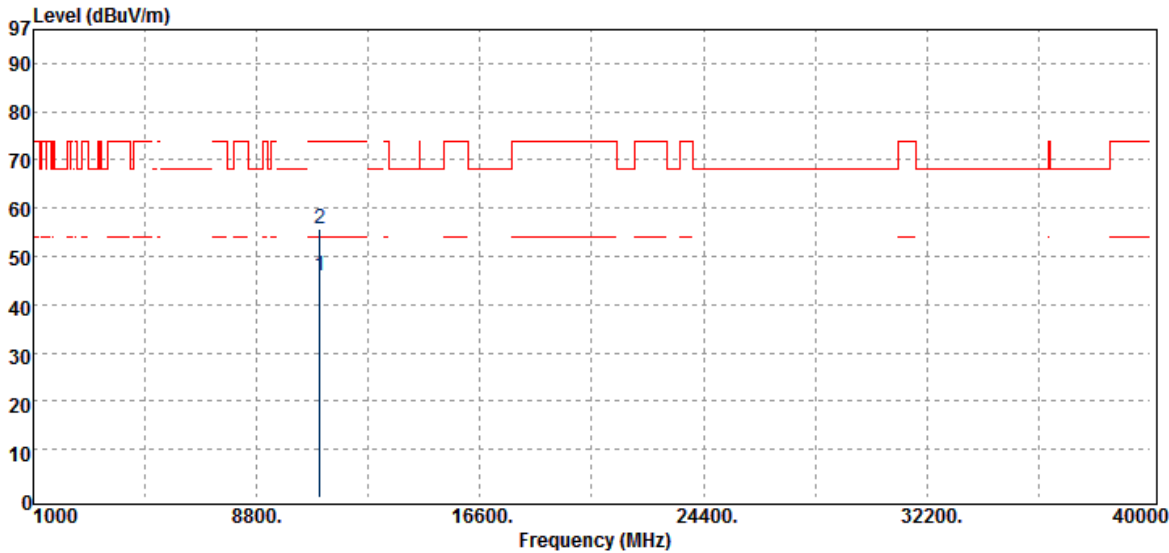
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

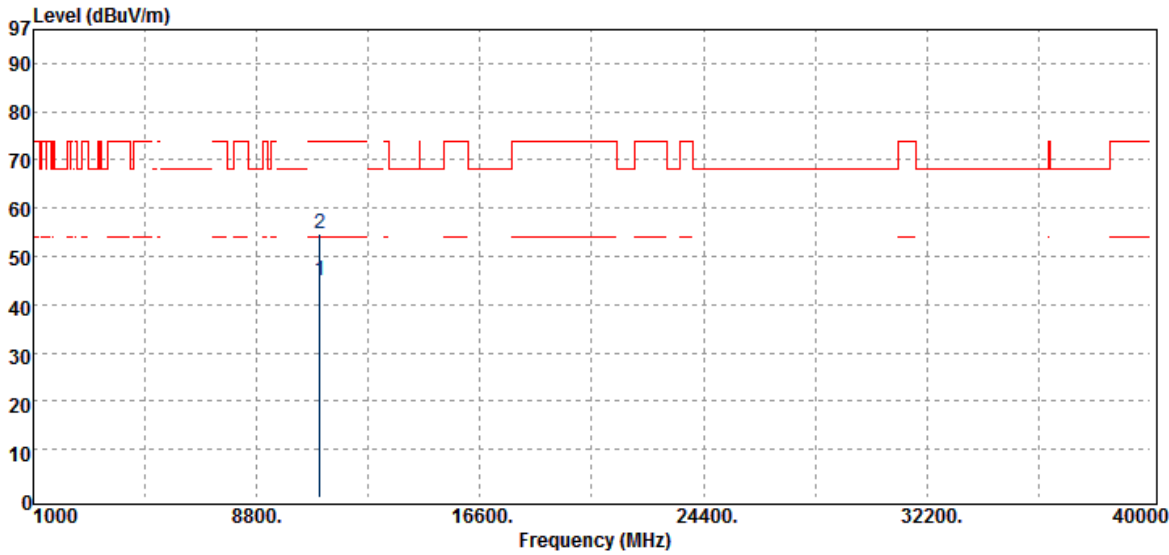
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Operation Band :802.11aB3
Fundamental Frequency :5500 MHz
Operation Mode :Tx CH LOW
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

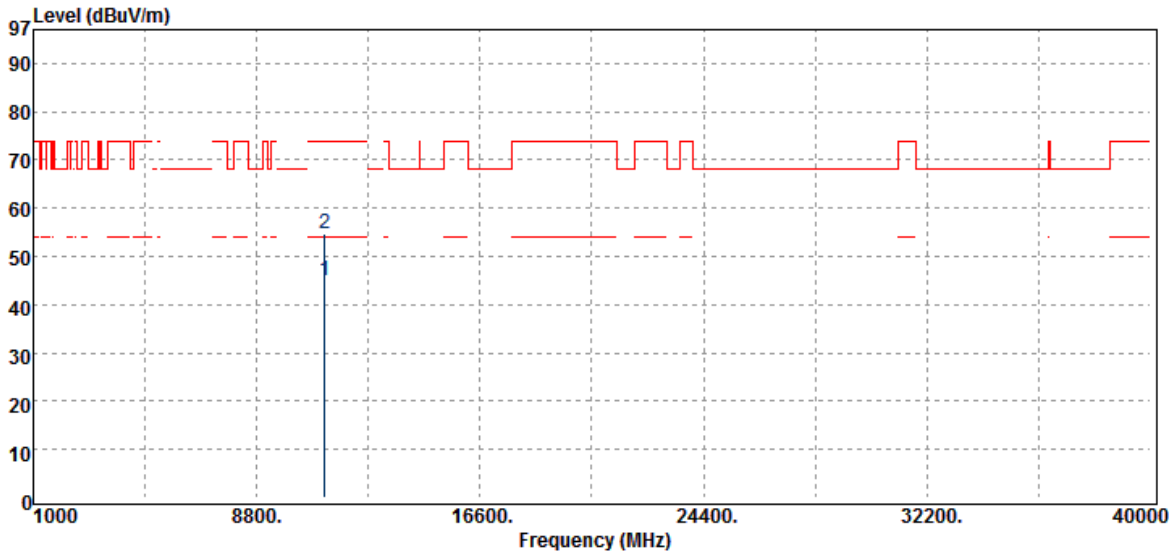
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

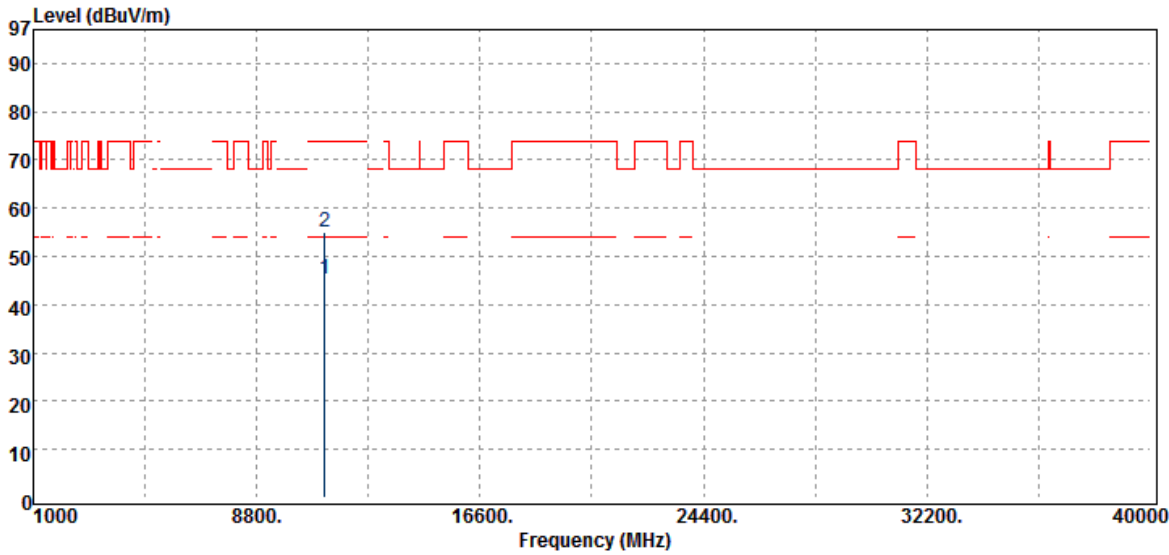
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Operation Band :802.11aB3
Fundamental Frequency :5580 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

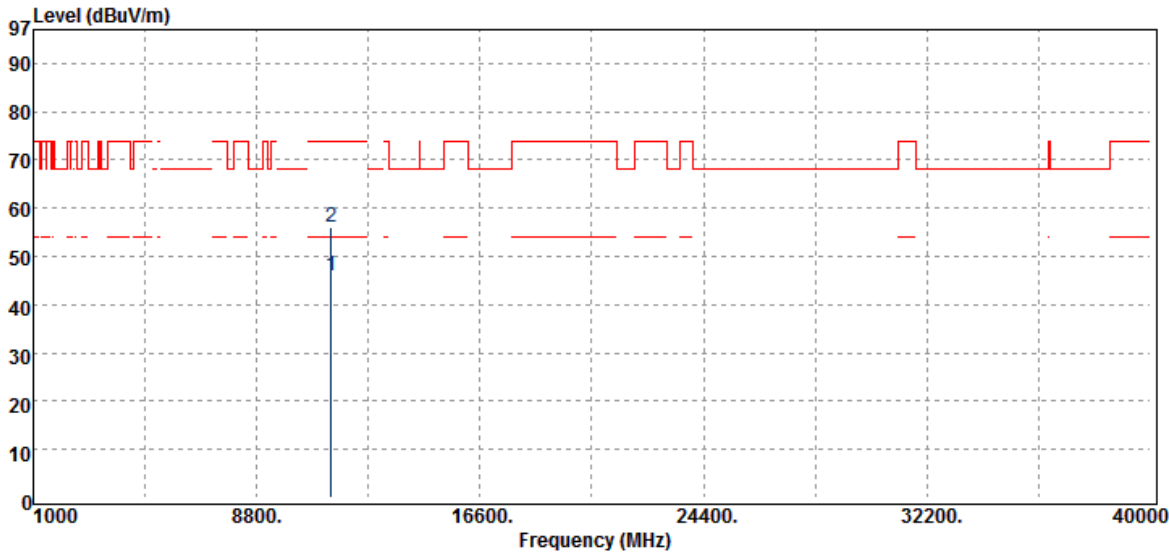
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

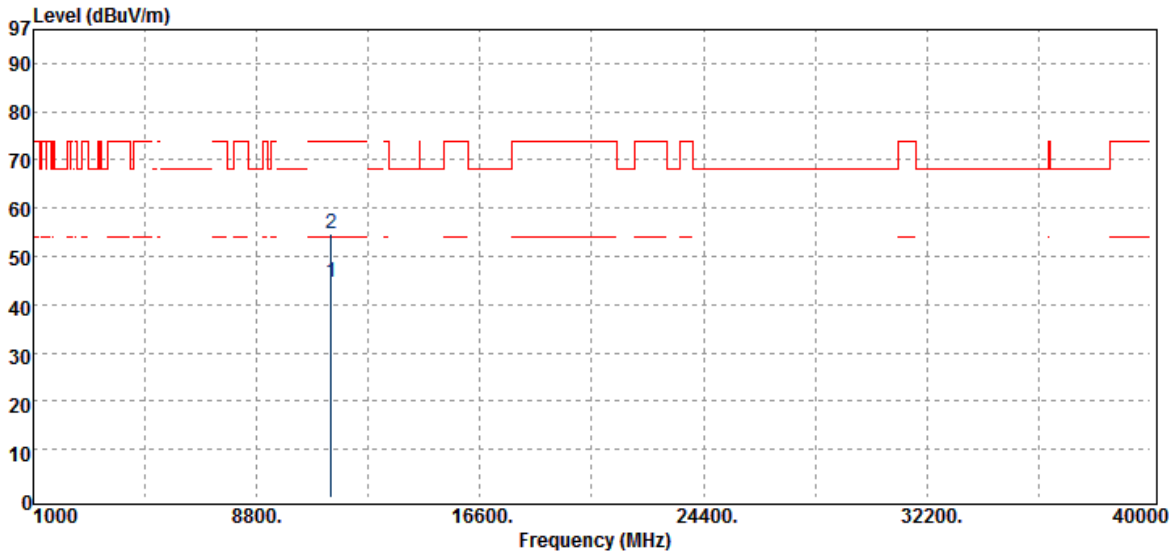
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Operation Band :802.11aB3
Fundamental Frequency :5700 MHz
Operation Mode :Tx CH HIGH
EUT Pol. :E2 Plane

Test Date :2018-10-02
Temp./Humi. :23 deg_C / 62 RH
Engineer :Wei
Measurement Antenna Pol. :HORIZONTAL



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

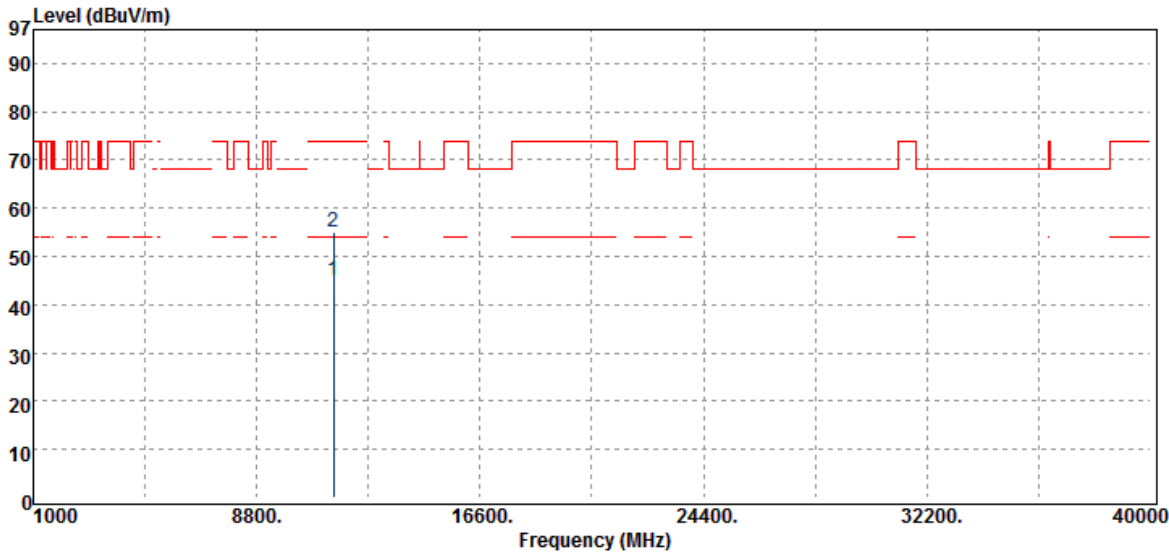
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

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



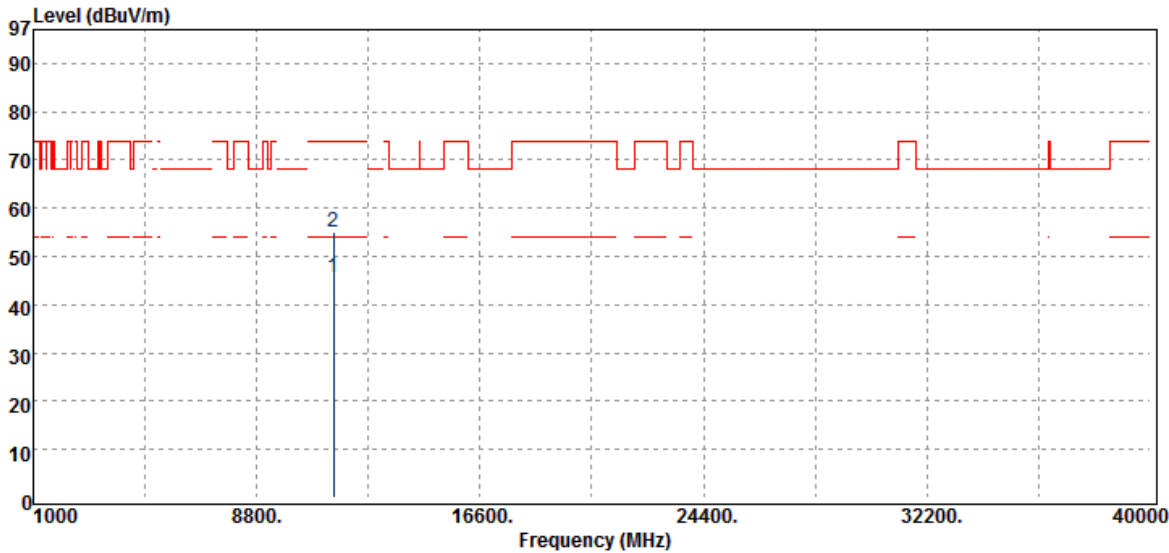
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11490.00	Average	23.27	21.61	44.88	54.00	-9.12
11490.00	Peak	33.51	21.61	55.12	74.00	-18.88

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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.	:HORIZONTAL



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

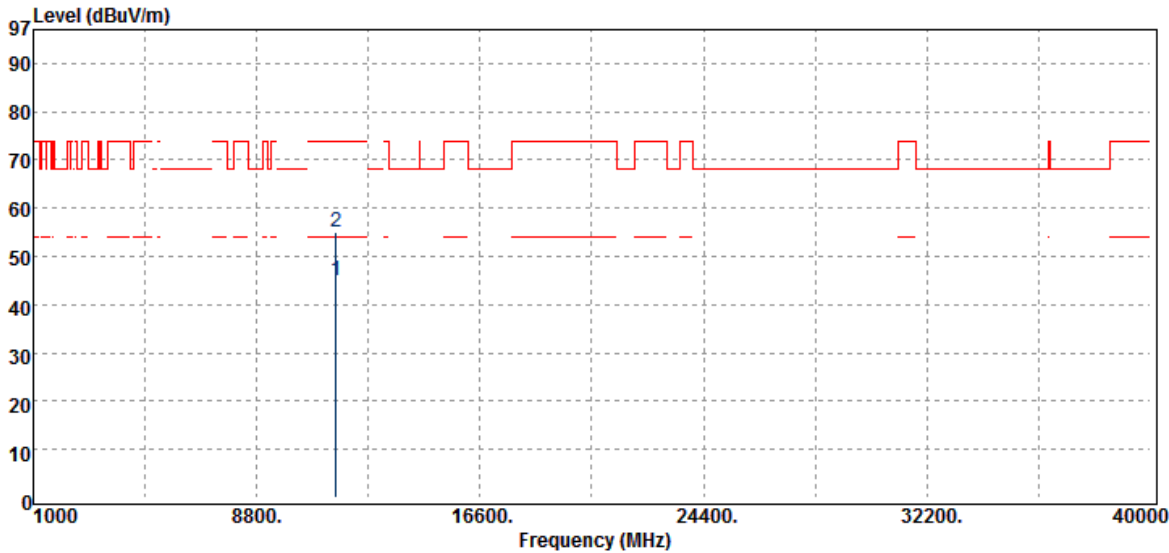
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/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

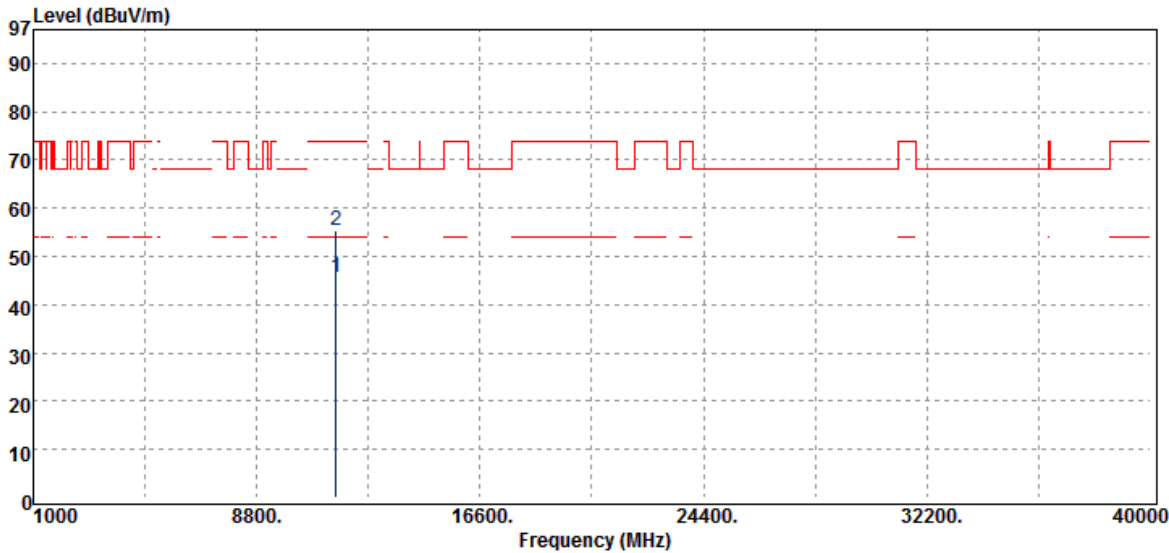
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Operation Band :802.11aB4
Fundamental Frequency :5785 MHz
Operation Mode :Tx CH MID
EUT Pol. :E2 Plane

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 μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ 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

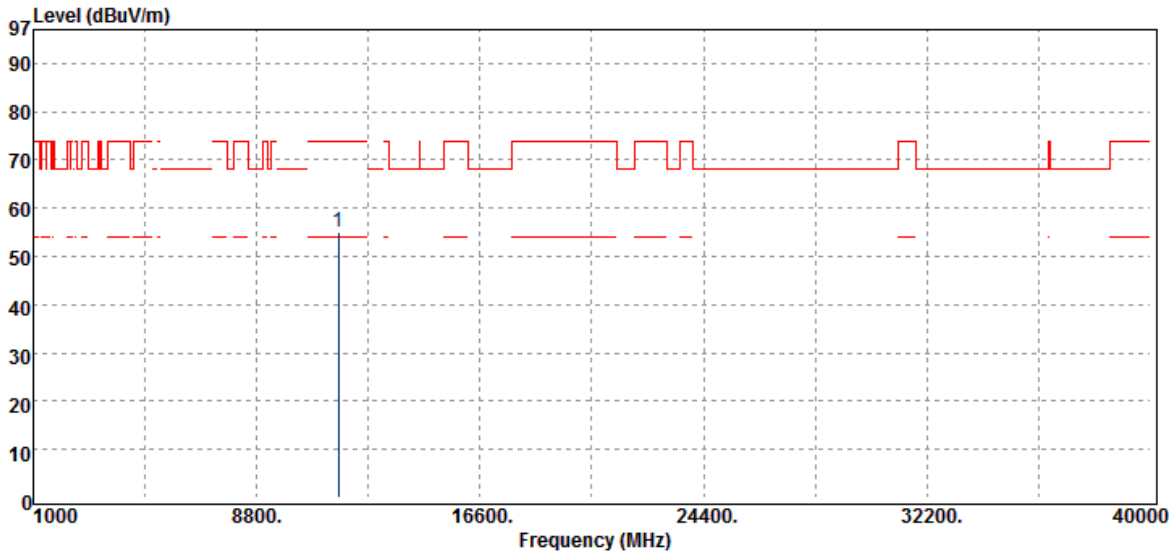
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Operation Band :802.11aB4
 Fundamental Frequency :5825 MHz
 Operation Mode :Tx CH HIGH
 EUT Pol. :E2 Plane

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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11650.00	Peak	33.40	21.60	55.00	74.00	-19.00

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