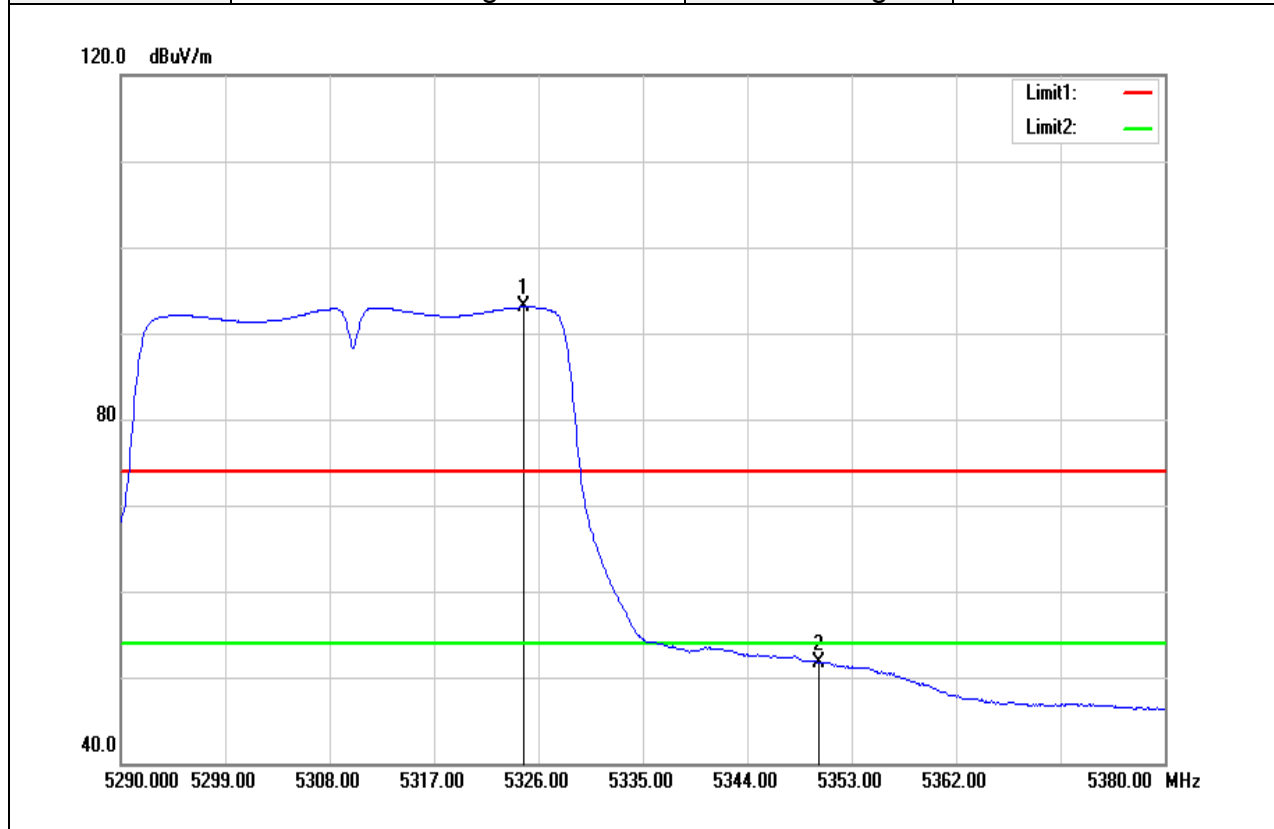
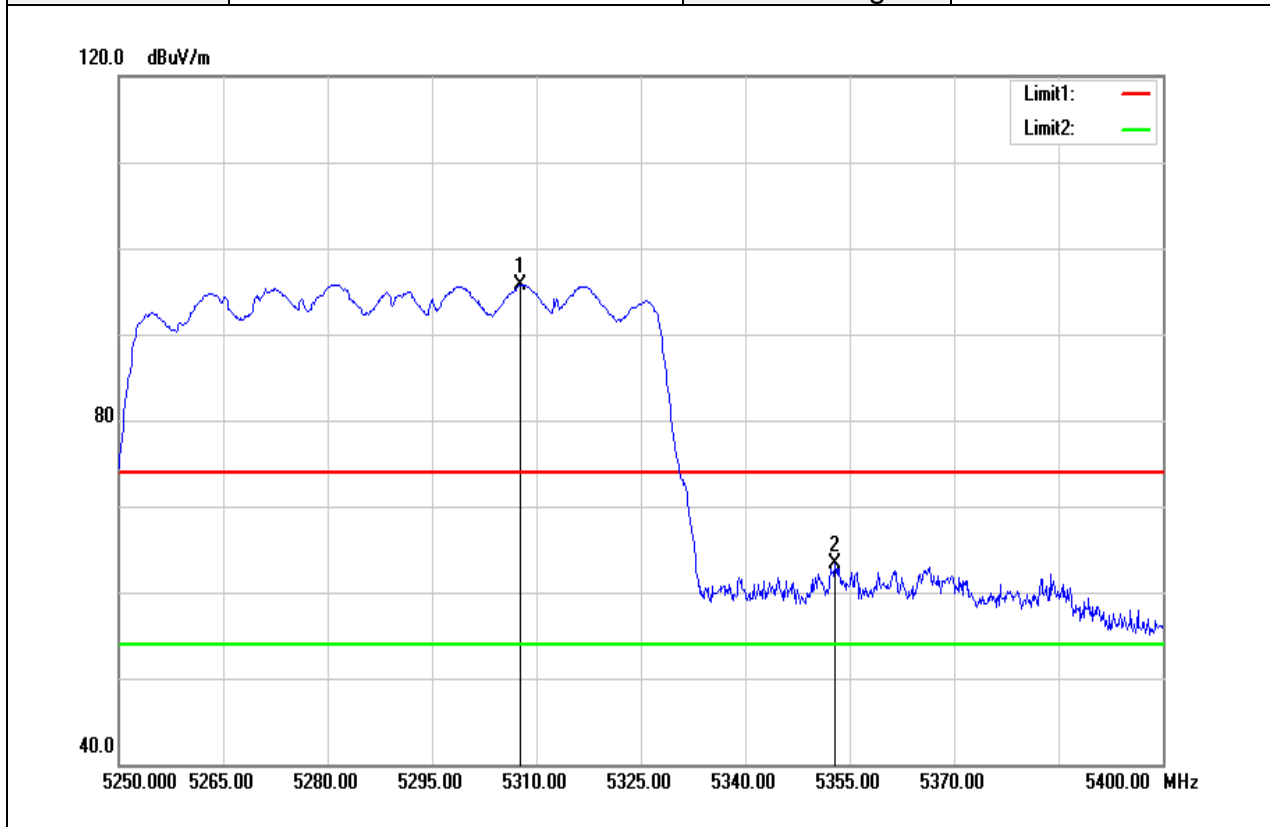


Test Mode	IEEE 802.11n HT40 High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



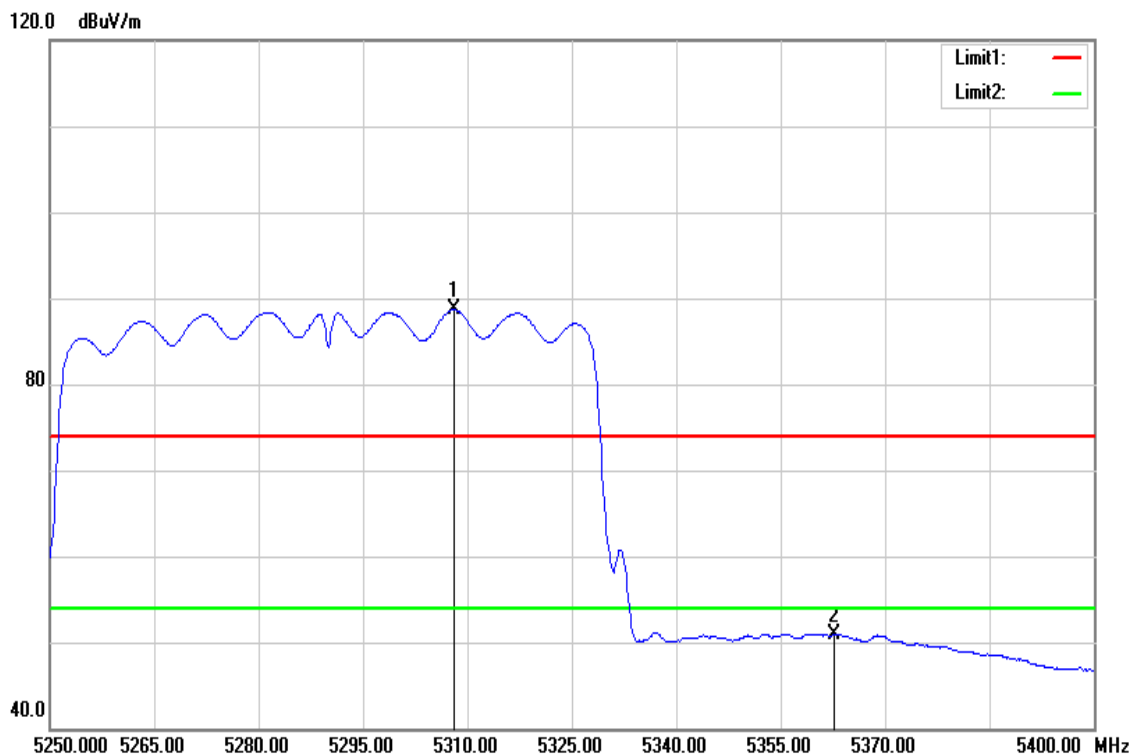
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5324.740	87.97	5.07	93.04	--	--	AVG
5350.210	46.49	5.31	51.80	54.00	-2.20	AVG

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5307.750	90.89	4.90	95.79	--	--	peak
5352.900	57.98	5.33	63.31	74.00	-10.69	peak

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz

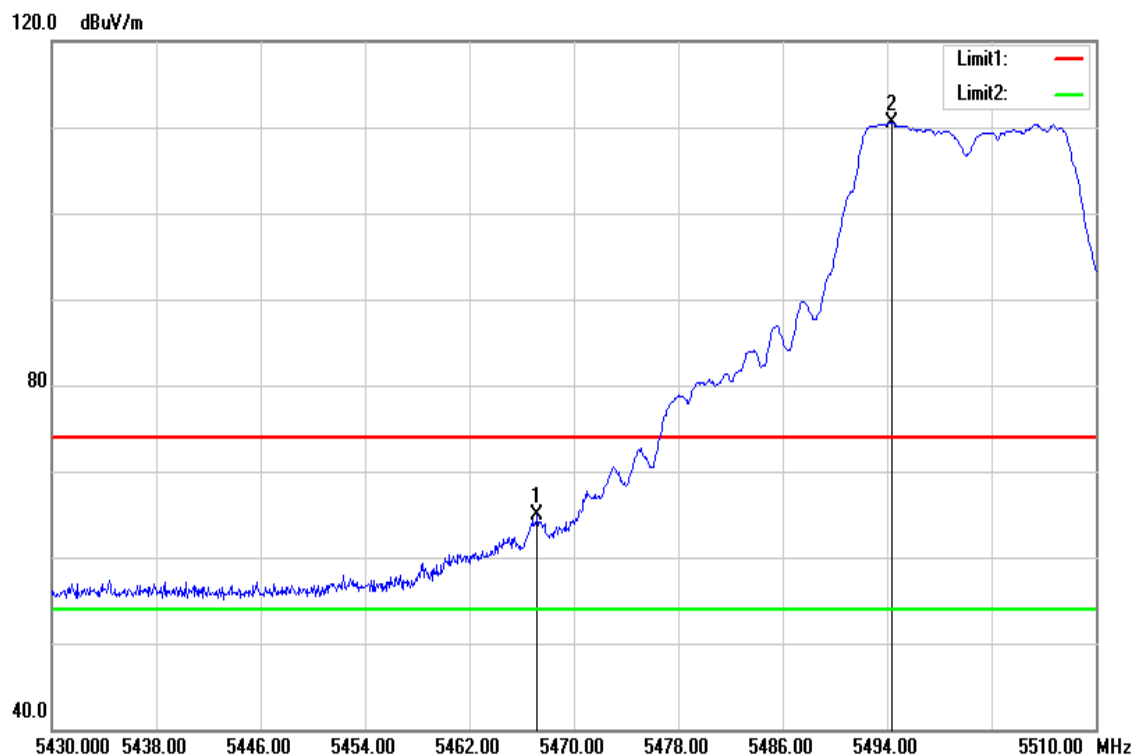


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5308.050	83.75	4.91	88.66	--	--	AVG
5362.650	45.57	5.41	50.98	54.00	-3.02	AVG

**Test Data**

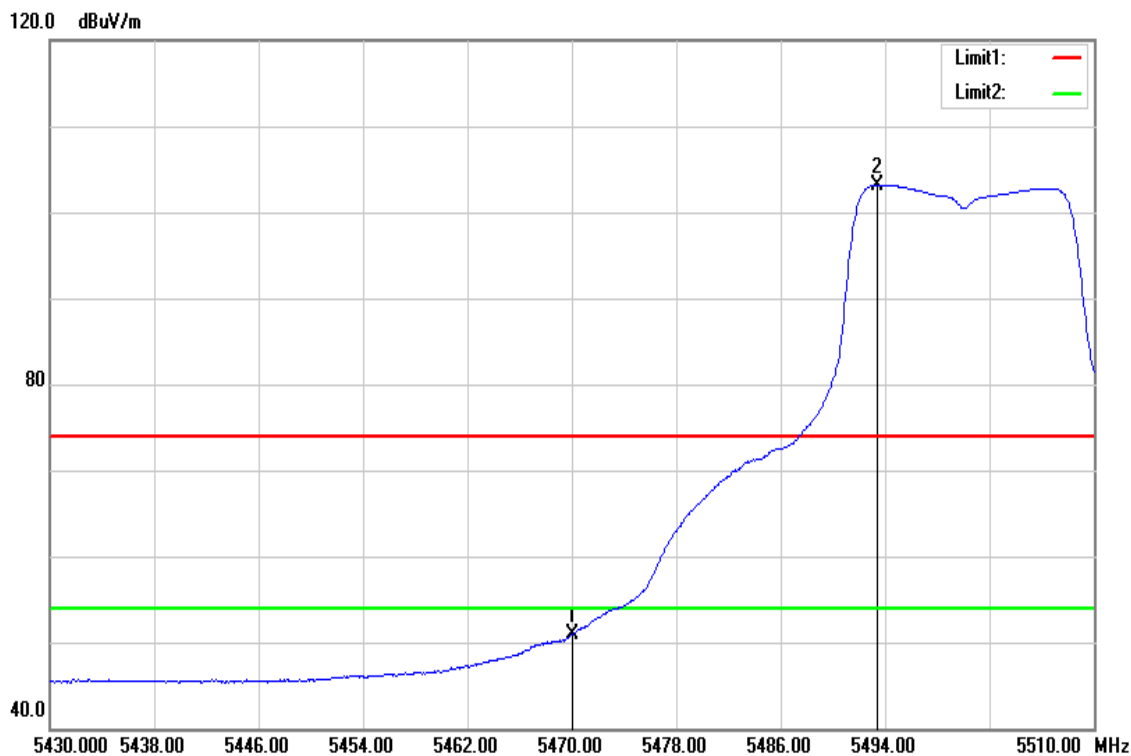
**Band Edge Test Data for UNII-2c**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



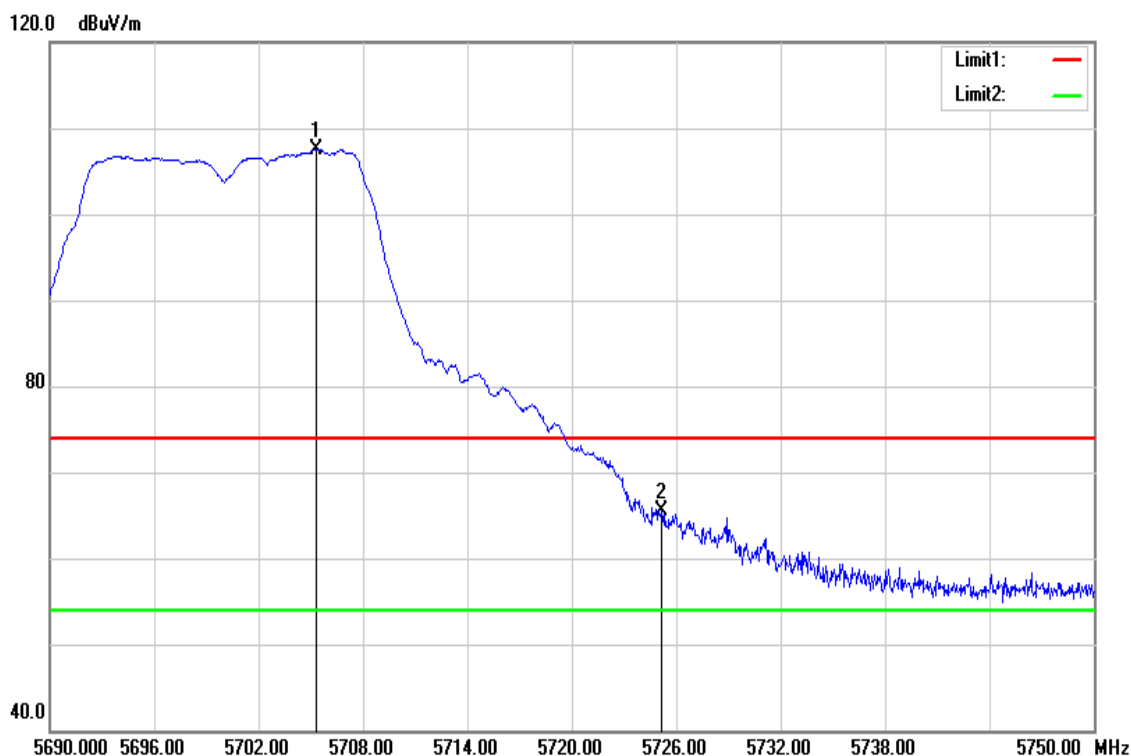
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5467.200	59.48	5.40	64.88	74.00	-9.12	peak
5494.320	105.20	5.28	110.48	--	--	peak

Test Mode	IEEE 802.11a Low CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



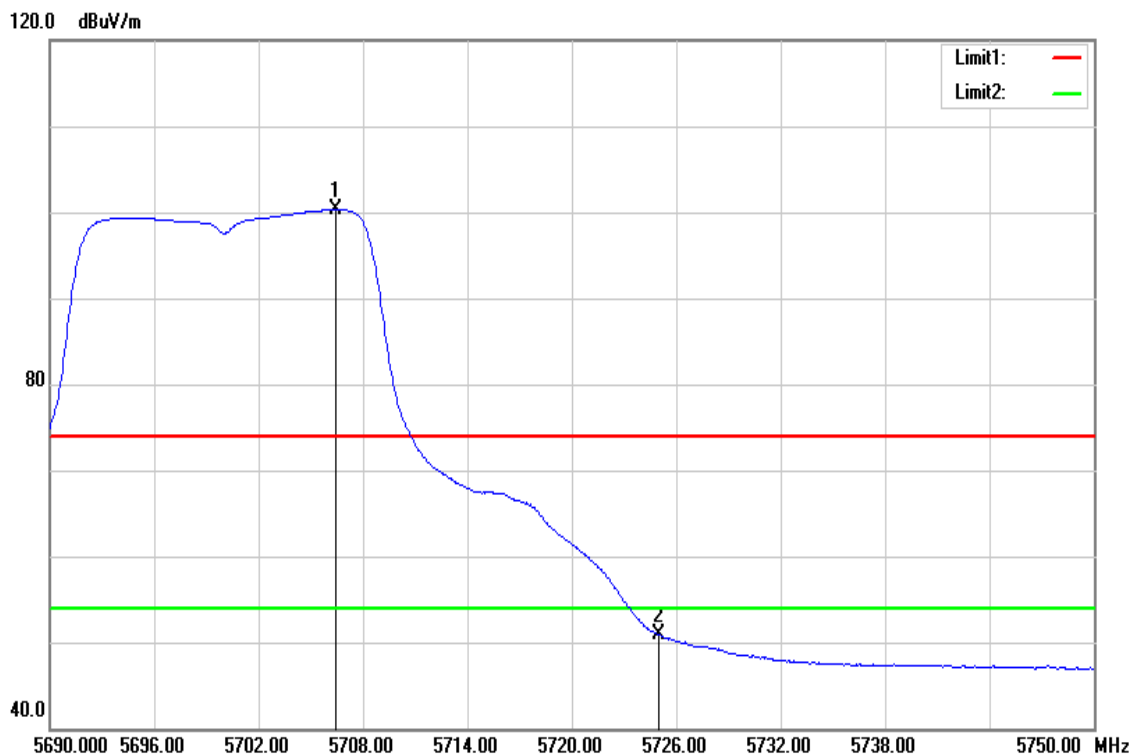
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5470.000	45.46	5.39	50.85	54.00	-3.15	AVG
5493.440	97.85	5.28	103.13	--	--	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



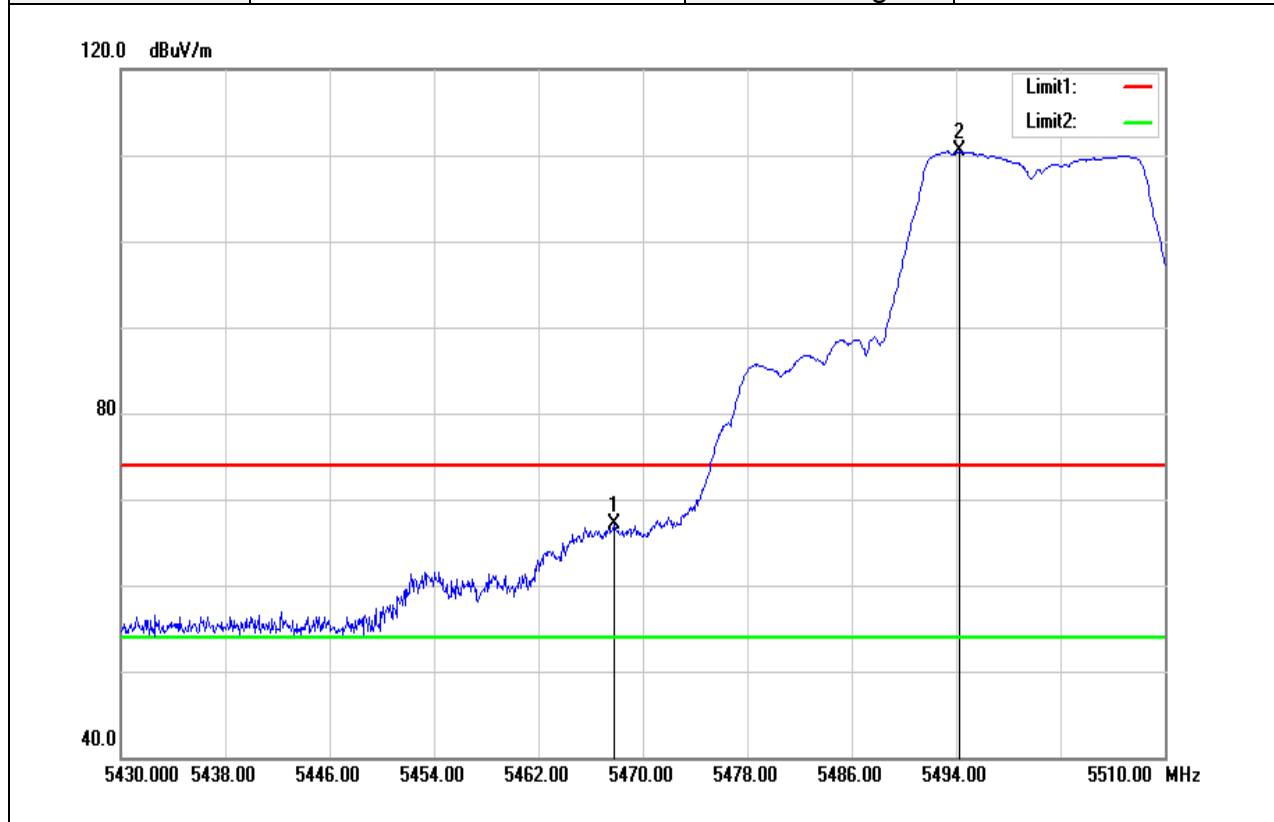
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5705.300	101.43	6.12	107.55	--	--	peak
5725.160	59.32	6.21	65.53	74.00	-8.47	peak

Test Mode	IEEE 802.11a High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5706.440	94.18	6.13	100.31	--	--	AVG
5725.000	44.67	6.21	50.88	74.00	-23.12	AVG

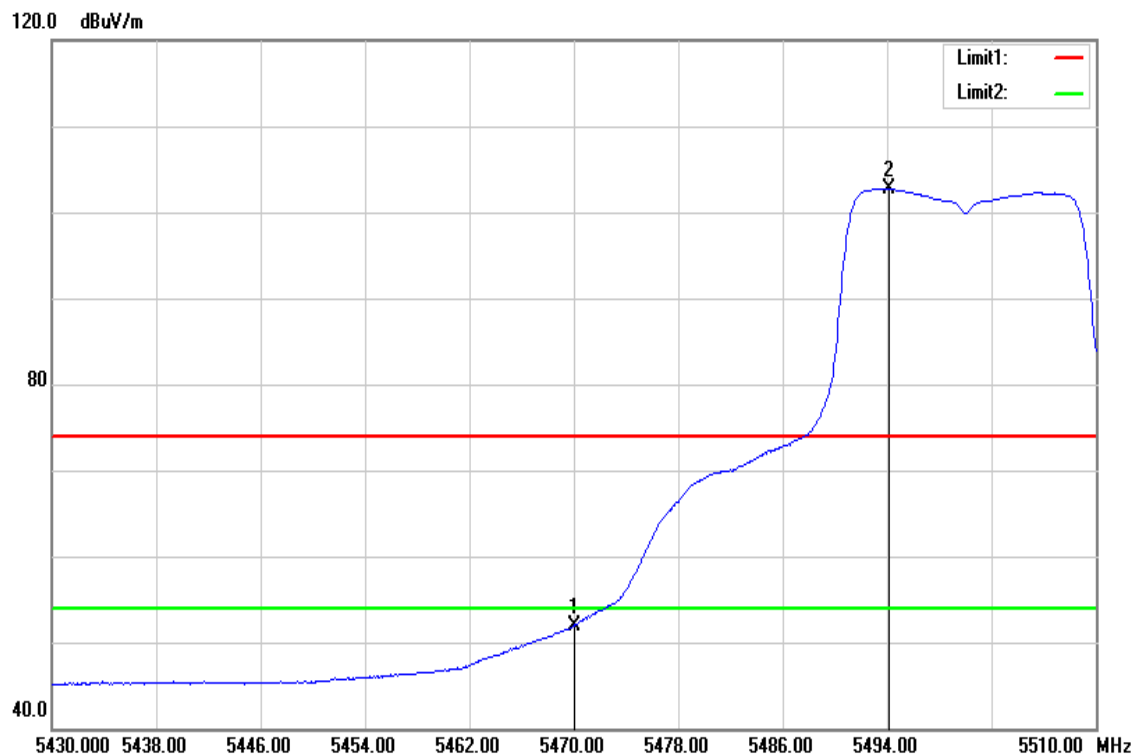
Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5467.760	61.78	5.40	67.18	74.00	-6.82	peak
5494.240	105.15	5.28	110.43	--	--	peak

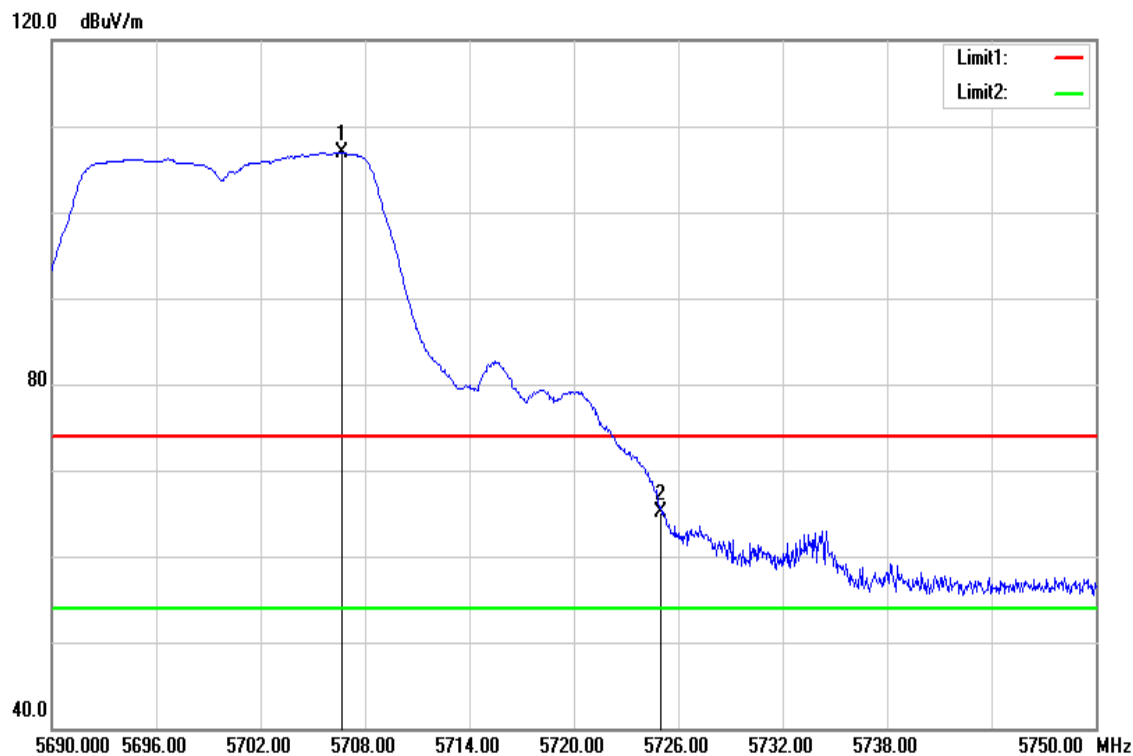


Test Mode	IEEE 802.11n HT20 Low CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



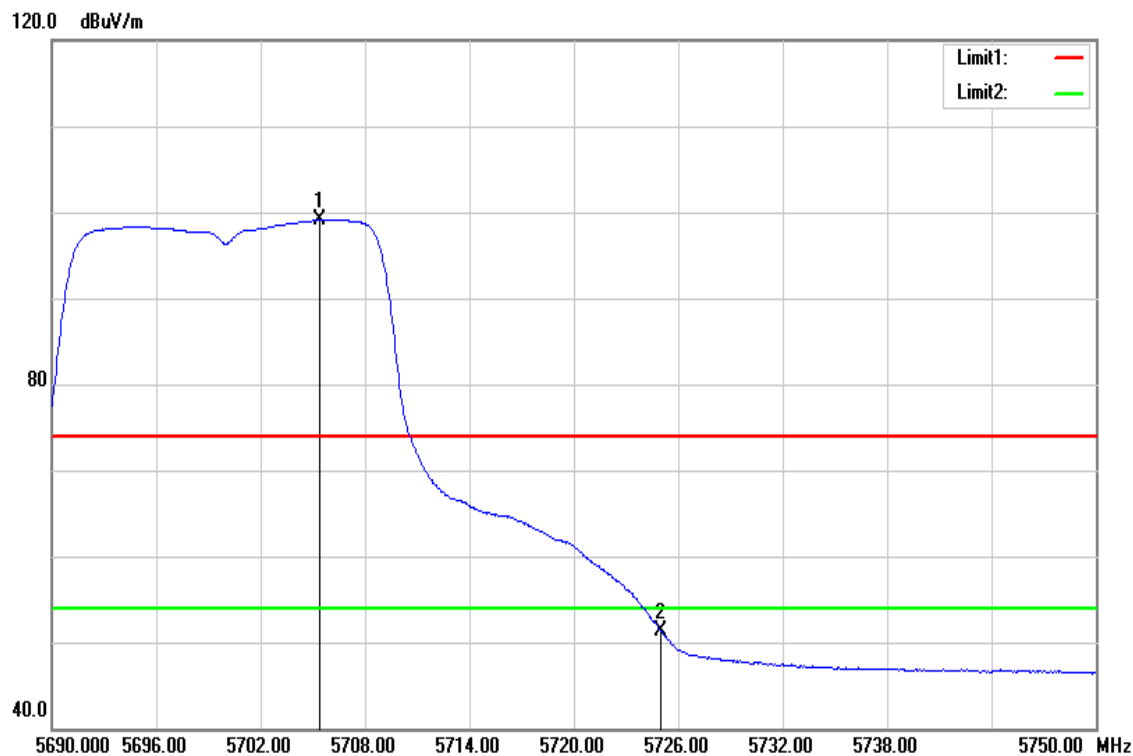
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5470.000	46.58	5.39	51.97	54.00	-2.03	AVG
5494.160	97.38	5.28	102.66	--	--	AVG

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



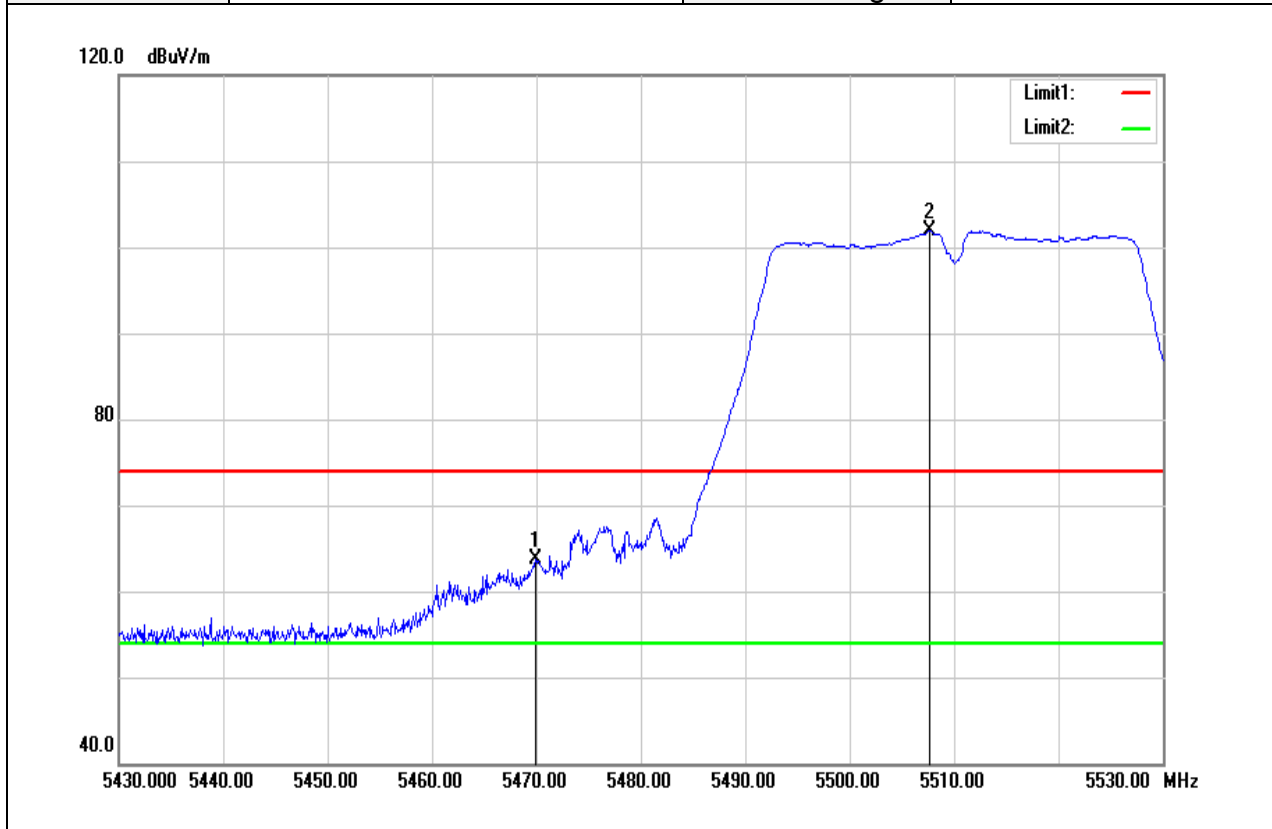
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5706.680	100.82	6.13	106.95	--	--	peak
5725.000	58.98	6.21	65.19	74.00	-8.81	peak

Test Mode	IEEE 802.11n HT20 High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



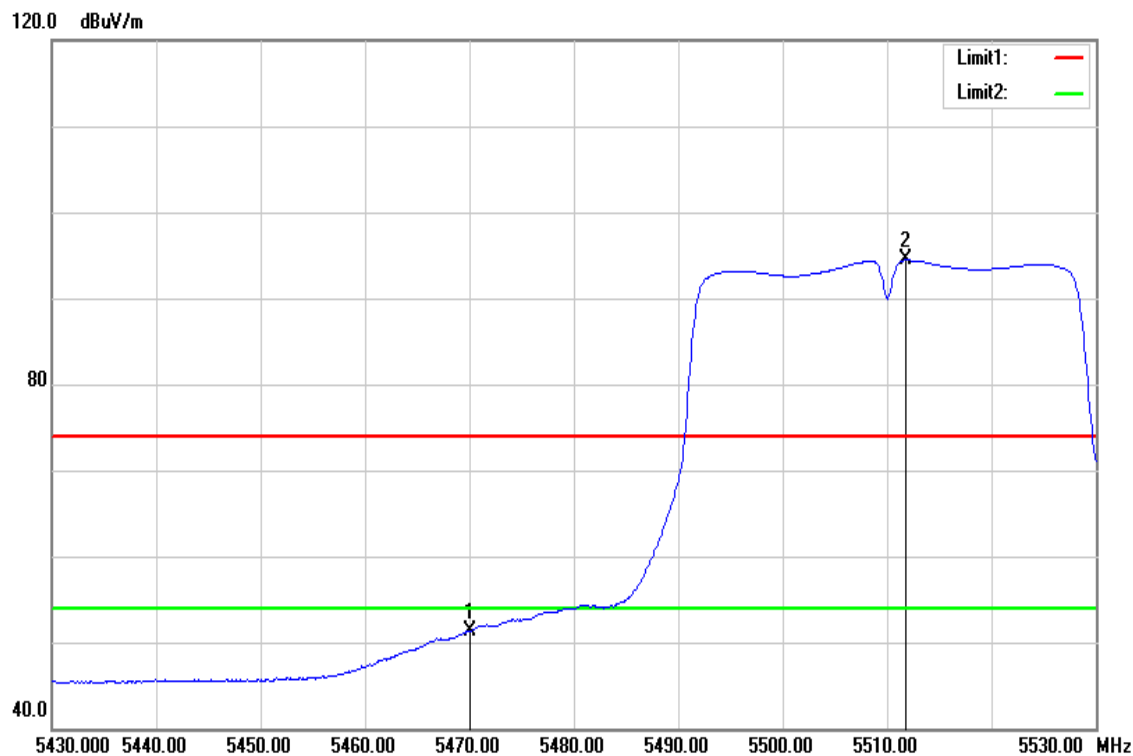
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5705.420	92.95	6.13	99.08	--	--	AVG
5725.000	45.12	6.21	51.33	54.00	-2.67	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



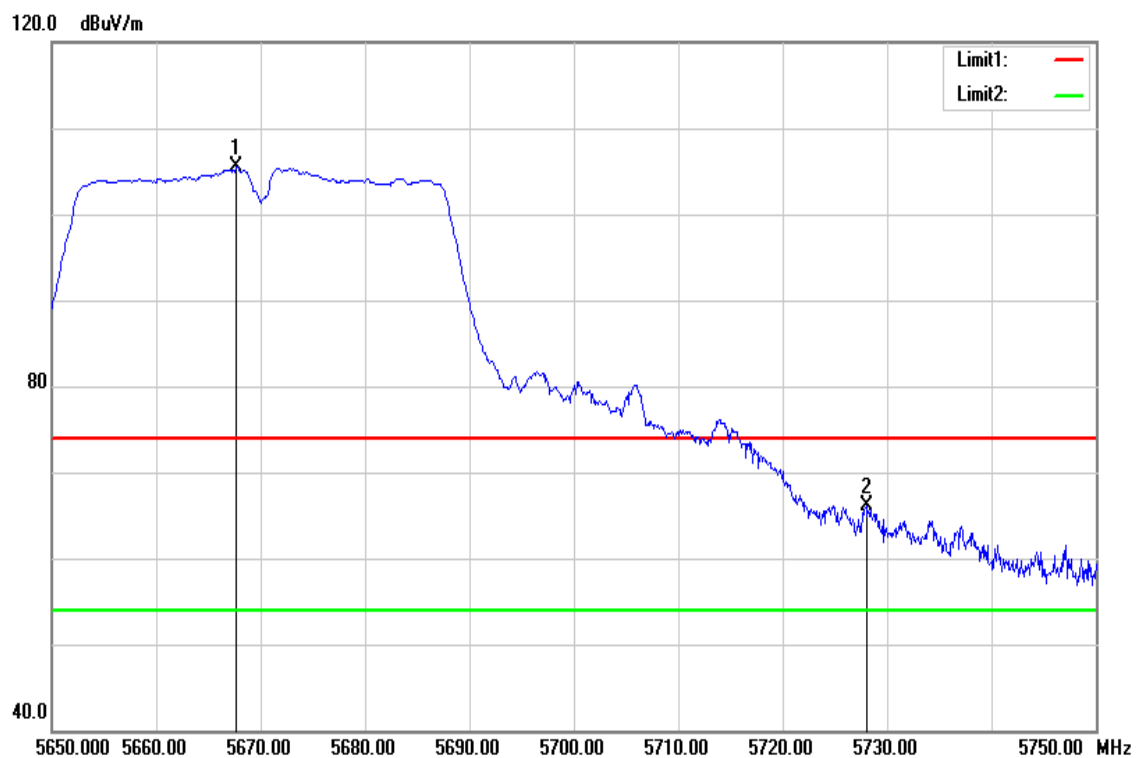
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5469.900	58.40	5.39	63.79	74.00	-10.21	peak
5507.700	96.69	5.28	101.97	--	--	peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



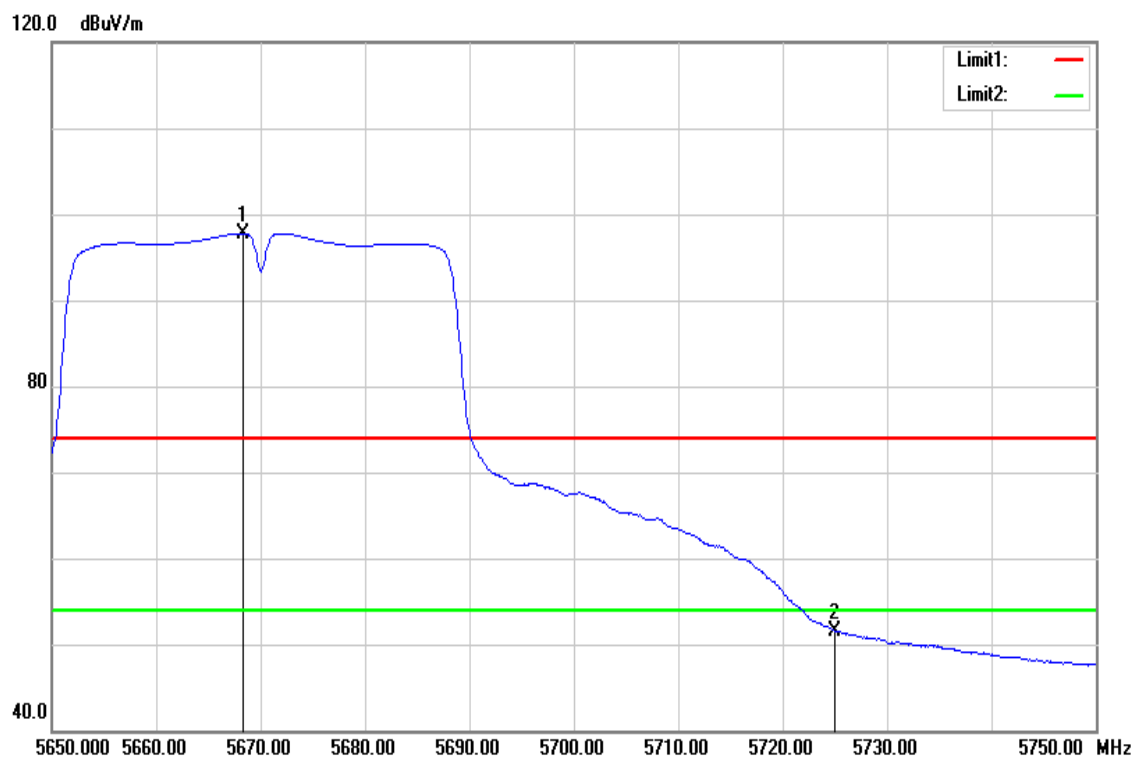
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5470.000	45.91	5.39	51.30	54.00	-2.70	AVG
5511.800	89.14	5.30	94.44	--	--	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



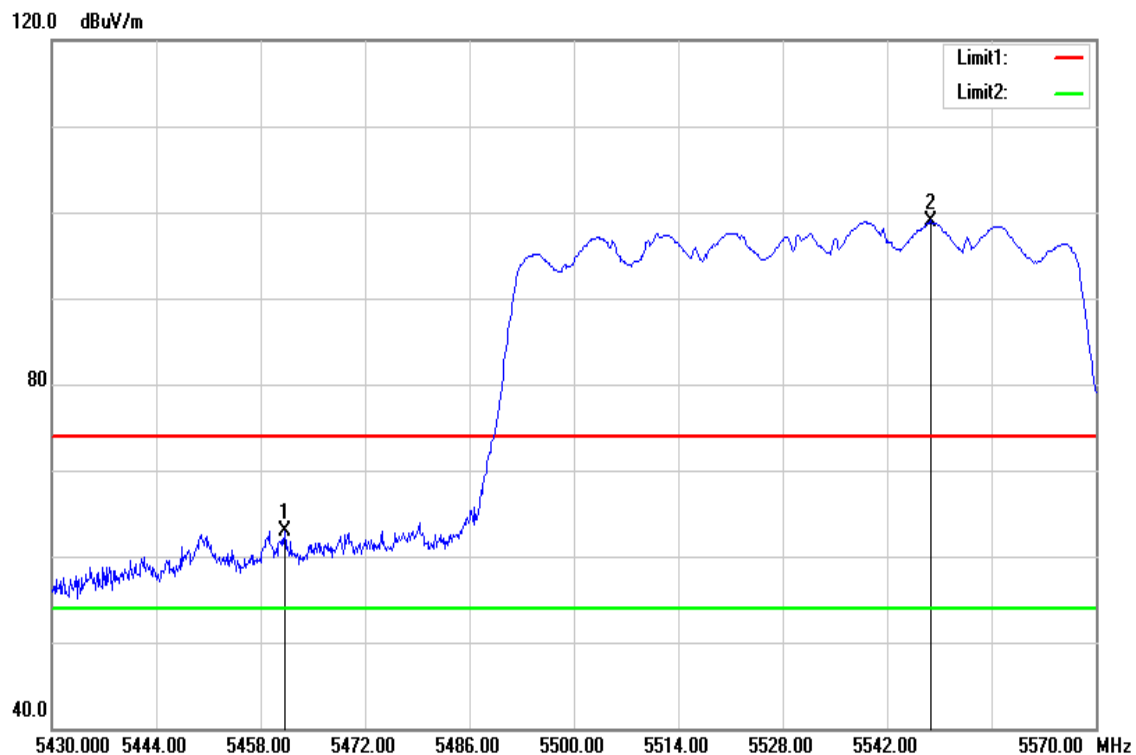
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5667.600	99.62	5.96	105.58	--	--	peak
5728.000	59.81	6.22	66.03	74.00	-7.97	peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5668.300	91.82	5.97	97.79	--	--	AVG
5725.000	45.36	6.21	51.57	54.00	-2.43	AVG

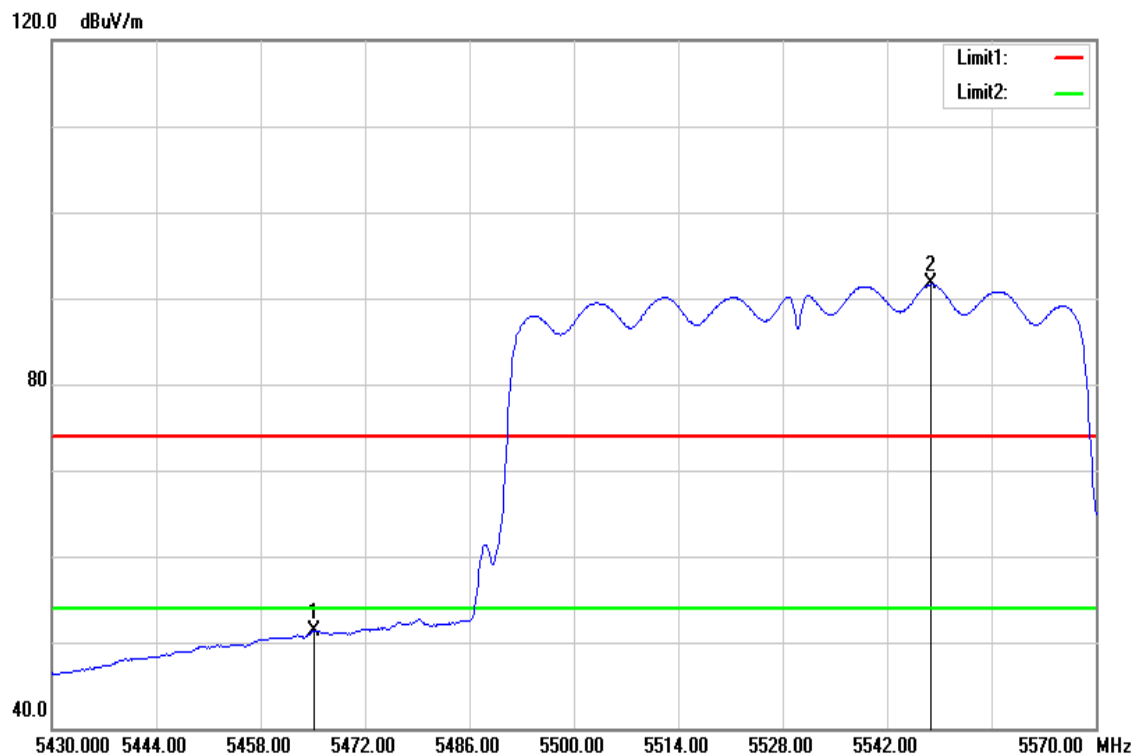
Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5461.220	57.50	5.43	62.93	74.00	-11.07	peak
5547.880	93.55	5.45	99.00	--	--	peak



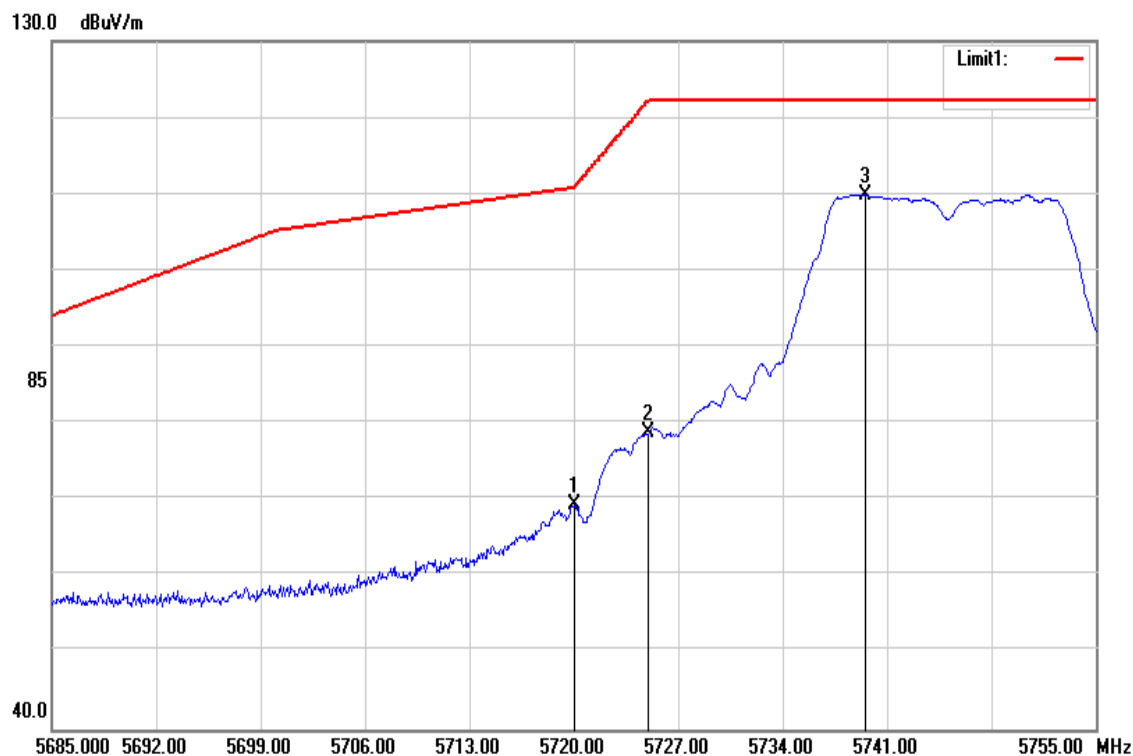
Test Mode	IEEE 802.11ac VHT80 Mid CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5465.140	45.91	5.41	51.32	54.00	-2.68	AVG
5547.880	86.17	5.45	91.62	--	--	AVG

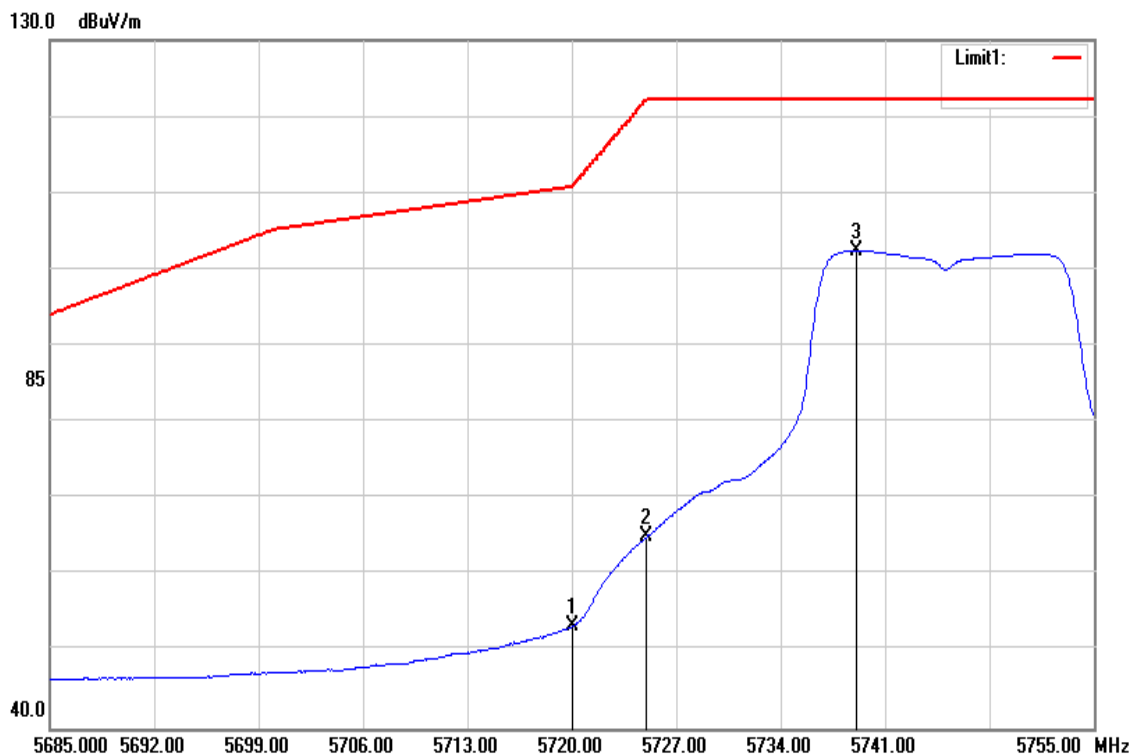
**Band Edge Test Data for UNII-3**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



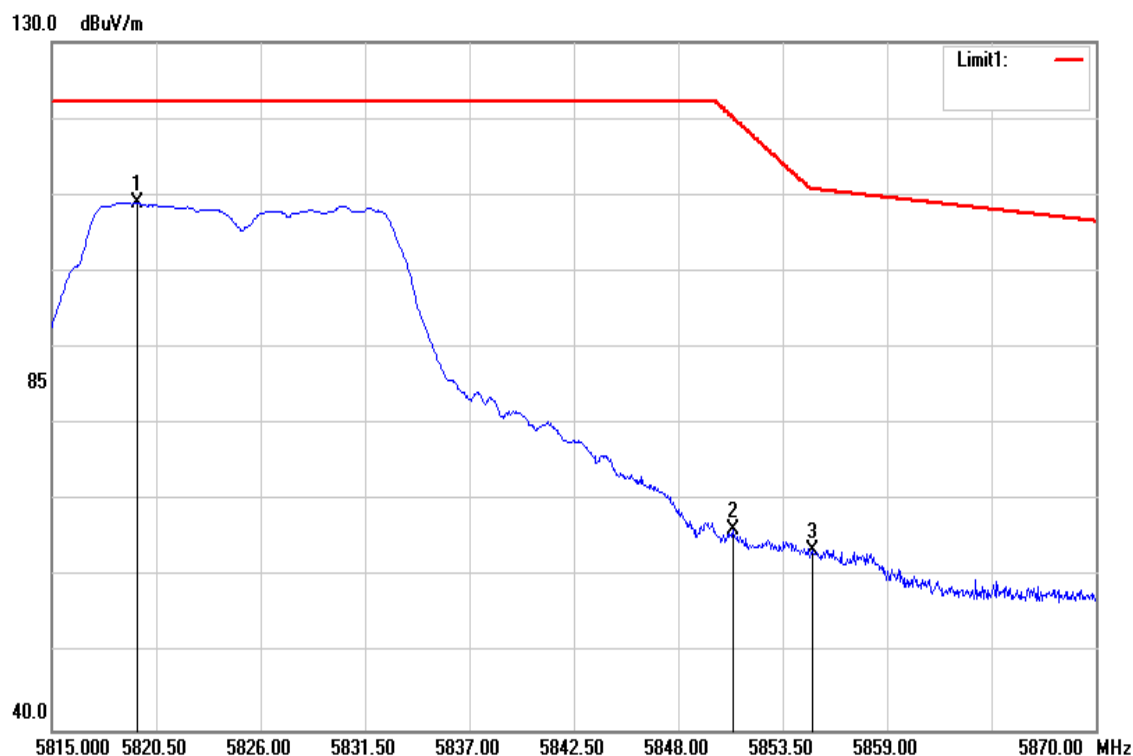
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5720.000	63.16	6.19	69.35	110.80	-41.45	peak
5725.000	72.59	6.21	78.80	122.20	-43.40	peak
5739.530	103.64	6.27	109.91	--	--	peak

Test Mode	IEEE 802.11a Low CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



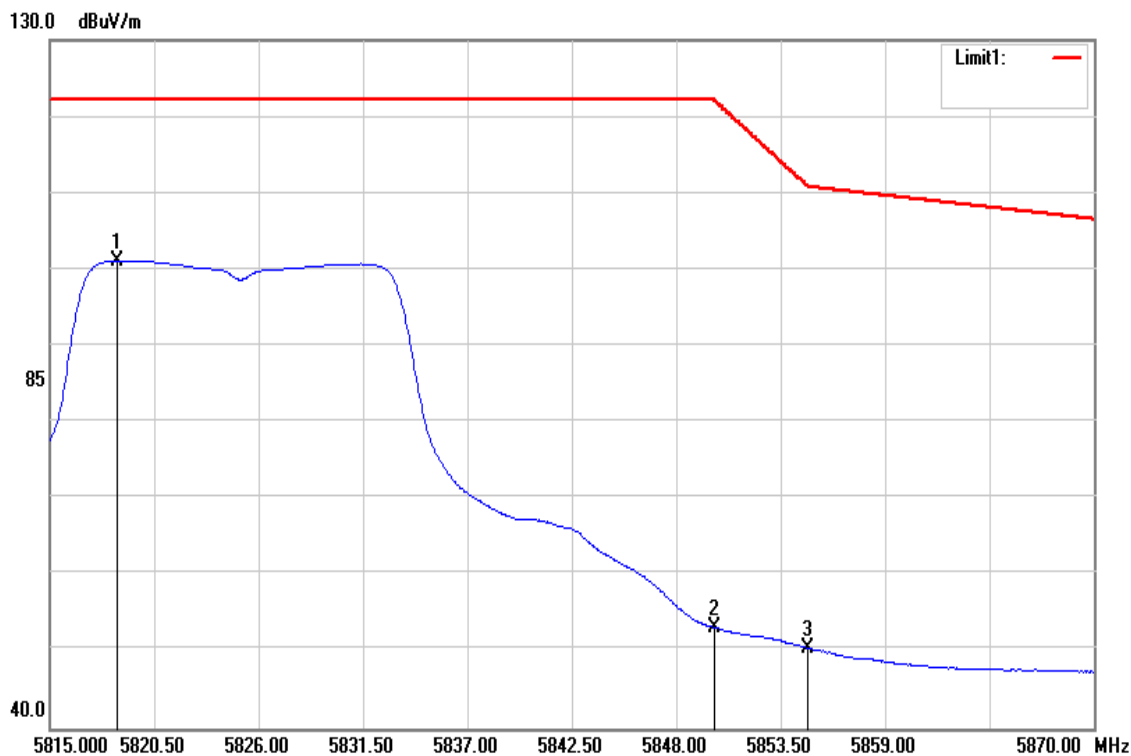
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5720.070	47.18	6.19	53.37	110.96	-57.59	AVG
5725.000	58.88	6.21	65.09	122.20	-57.11	AVG
5739.040	96.13	6.27	102.40	--	--	AVG

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



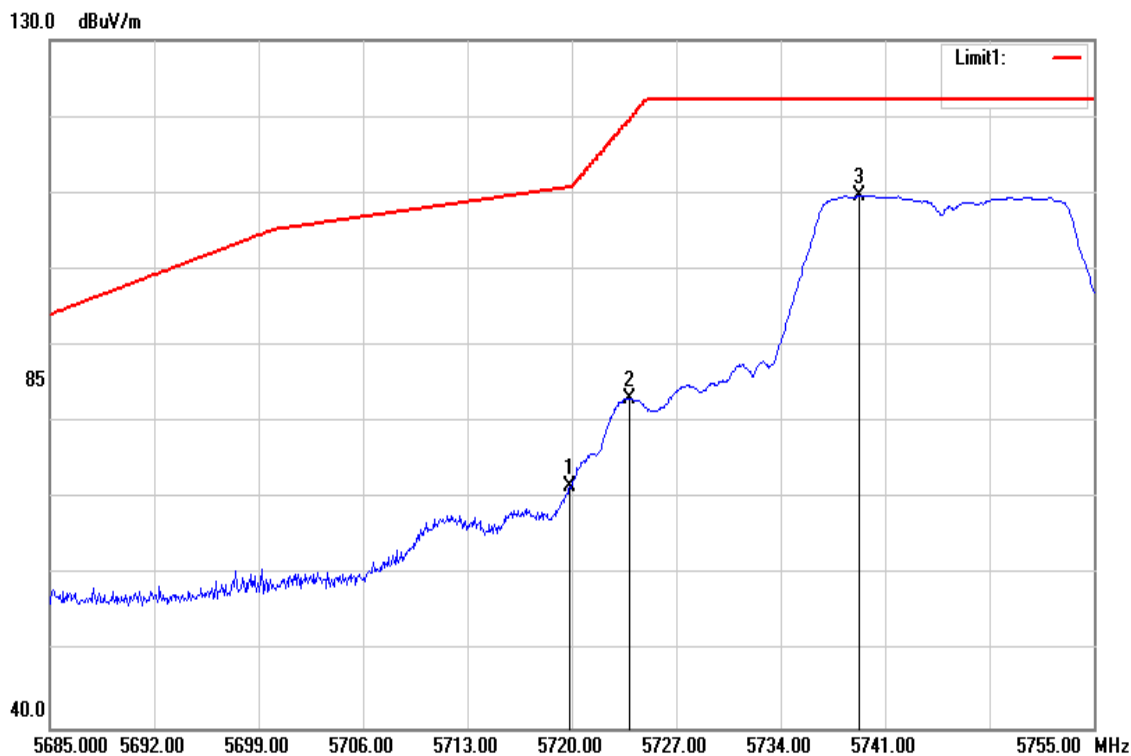
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5819.510	102.34	6.61	108.95	--	--	peak
5850.860	59.37	6.74	66.11	120.24	-54.13	peak
5855.040	56.82	6.76	63.58	110.79	-47.21	peak

Test Mode	IEEE 802.11a High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



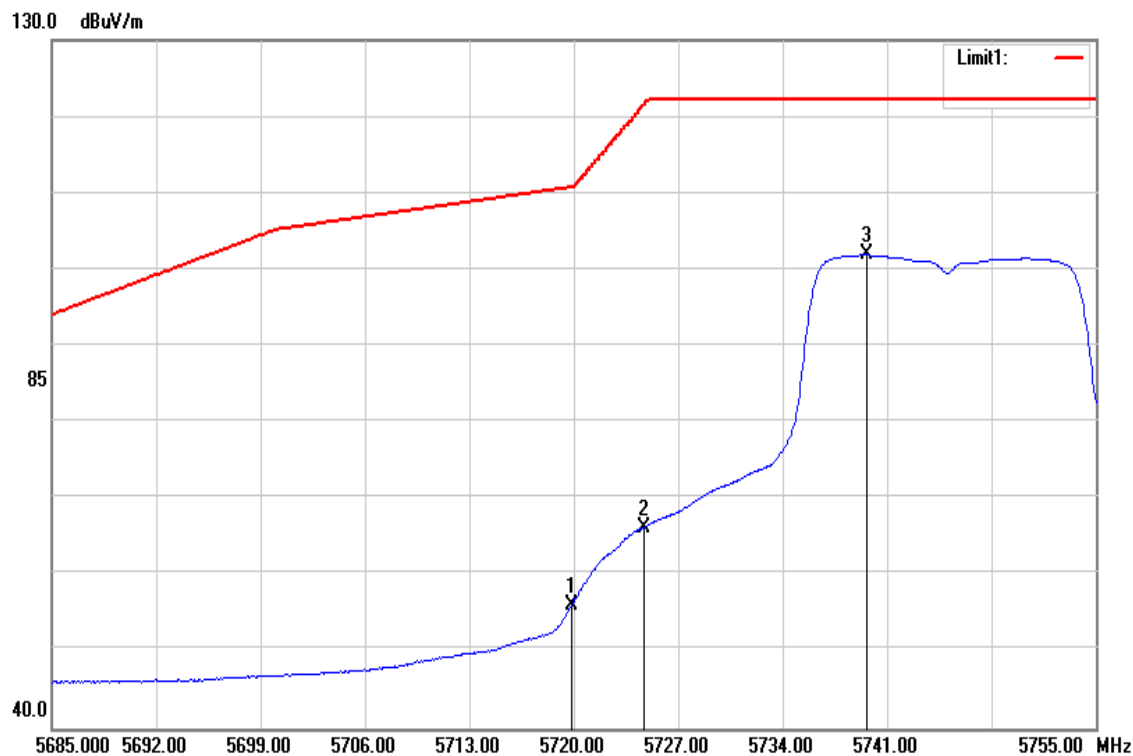
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5818.575	94.58	6.61	101.19	--	--	peak
5850.000	46.44	6.74	53.18	122.20	-69.02	peak
5854.930	43.75	6.76	50.51	110.96	-60.45	peak

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



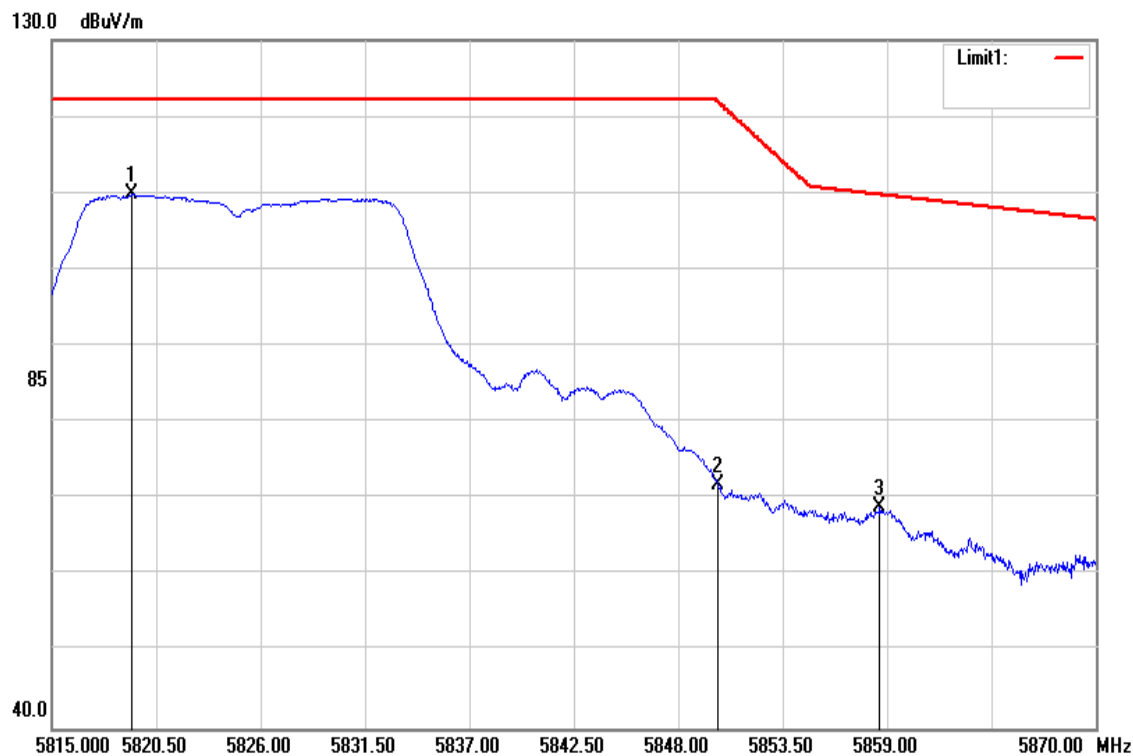
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.860	65.34	6.19	71.53	110.76	-39.23	peak
5723.850	76.92	6.20	83.12	119.58	-36.46	peak
5739.250	103.44	6.27	109.71	--	--	peak

Test Mode	IEEE 802.11n HT20 Low CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.860	49.96	6.19	56.15	110.76	-54.61	AVG
5724.690	60.08	6.21	66.29	121.49	-55.20	AVG
5739.600	95.64	6.27	101.91	--	--	AVG

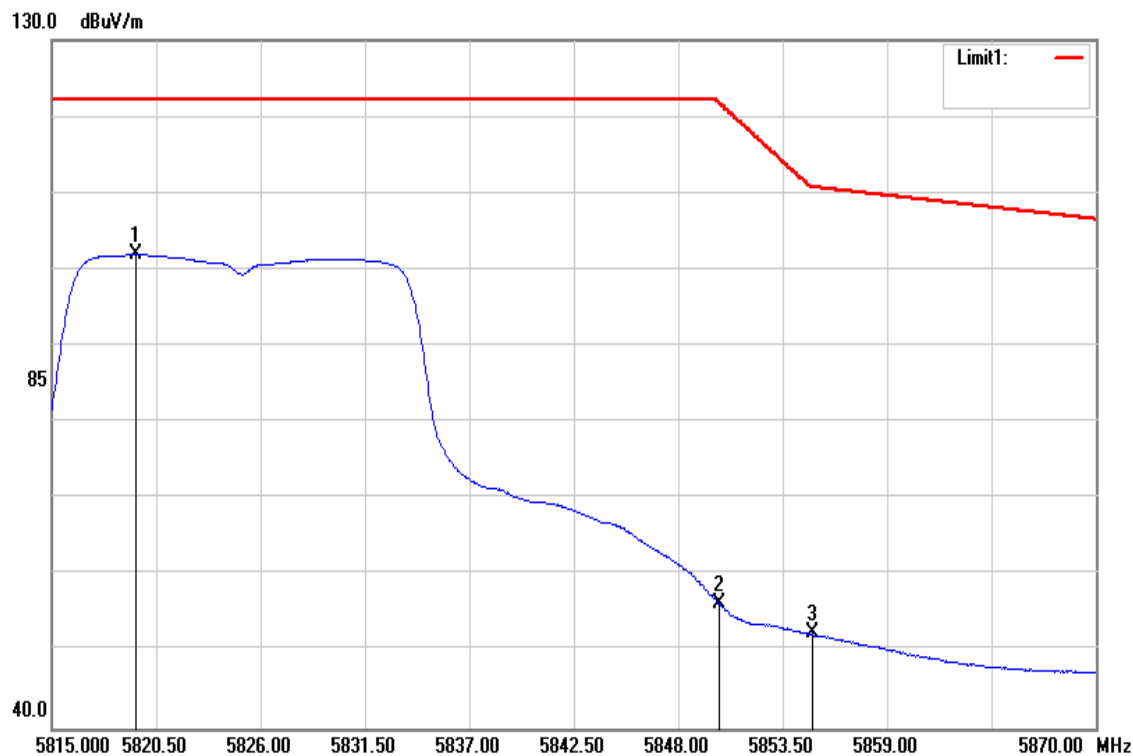
Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5819.235	103.19	6.61	109.80	--	--	peak
5850.090	65.08	6.74	71.82	121.99	-50.17	peak
5858.615	62.05	6.78	68.83	109.79	-40.96	peak

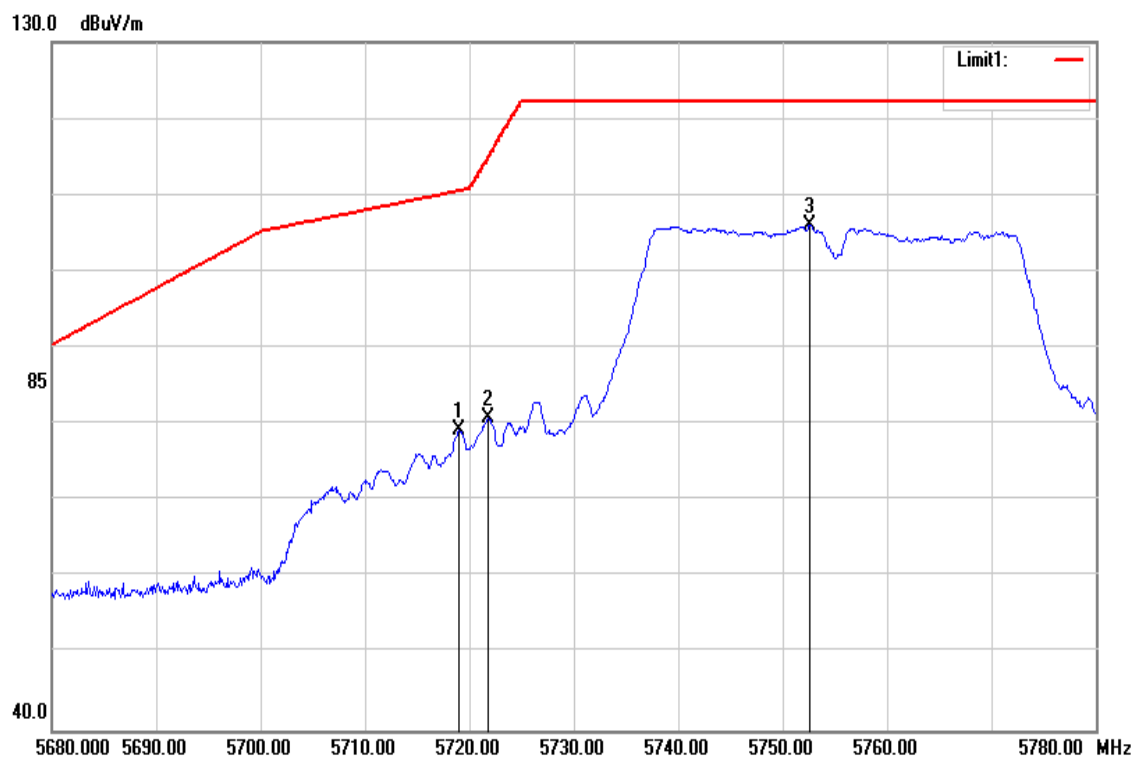


Test Mode	IEEE 802.11n HT20 High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



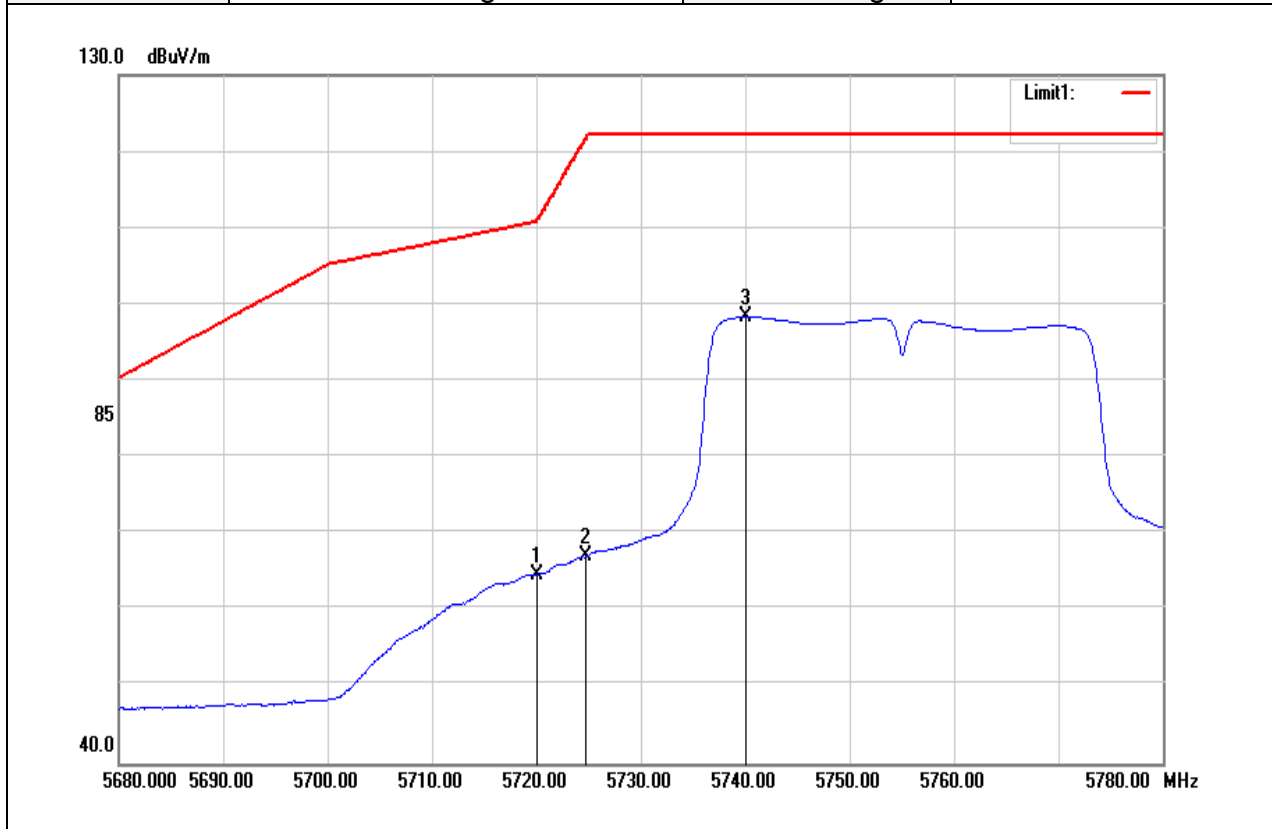
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5819.400	95.35	6.61	101.96	--	--	AVG
5850.145	49.65	6.74	56.39	121.87	-65.48	AVG
5855.040	45.63	6.76	52.39	110.79	-58.40	AVG

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



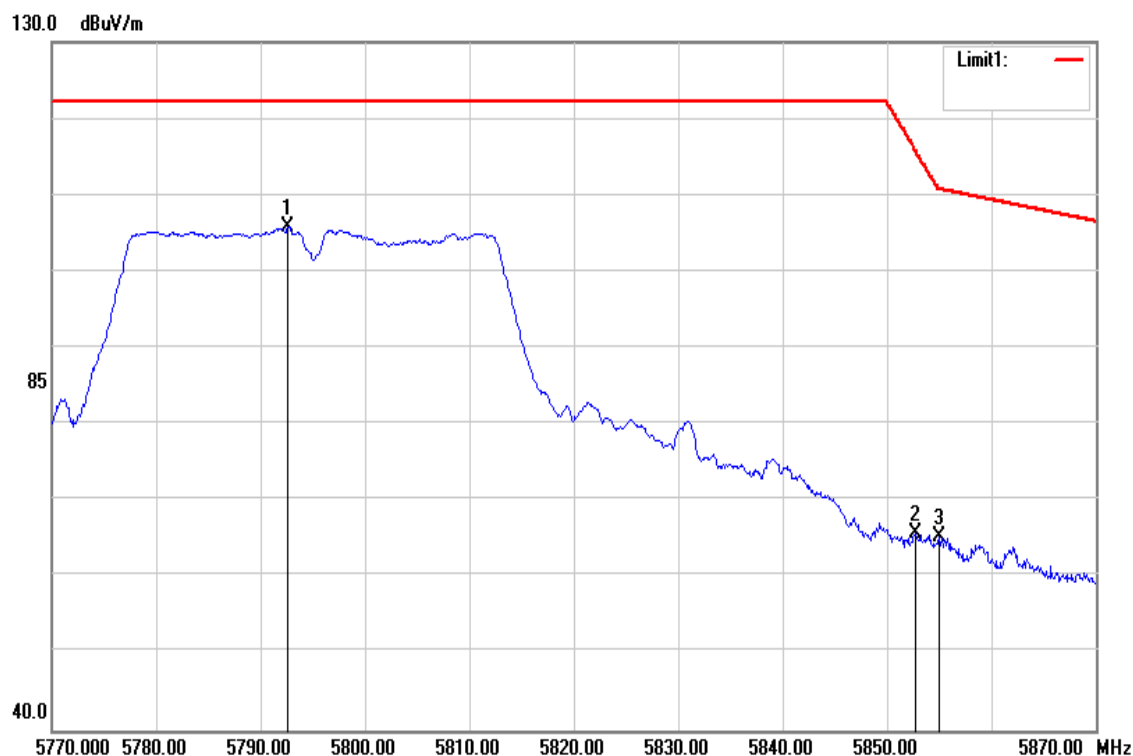
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.000	72.98	6.18	79.16	110.52	-31.36	peak
5721.800	74.57	6.19	80.76	114.90	-34.14	peak
5752.600	99.72	6.33	106.05	--	--	peak

Test Mode	IEEE 802.11n HT40 Low CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



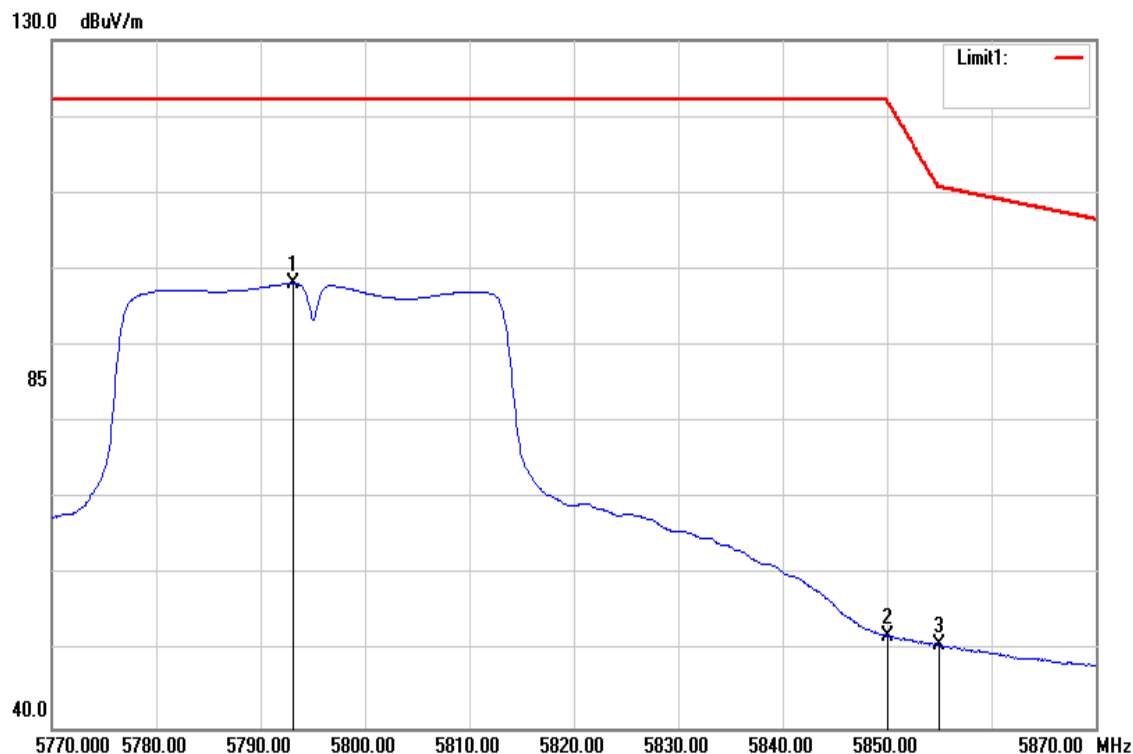
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5720.000	58.54	6.19	64.73	110.80	-46.07	AVG
5724.700	60.81	6.21	67.02	121.52	-54.50	AVG
5740.100	92.17	6.27	98.44	--	--	AVG

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



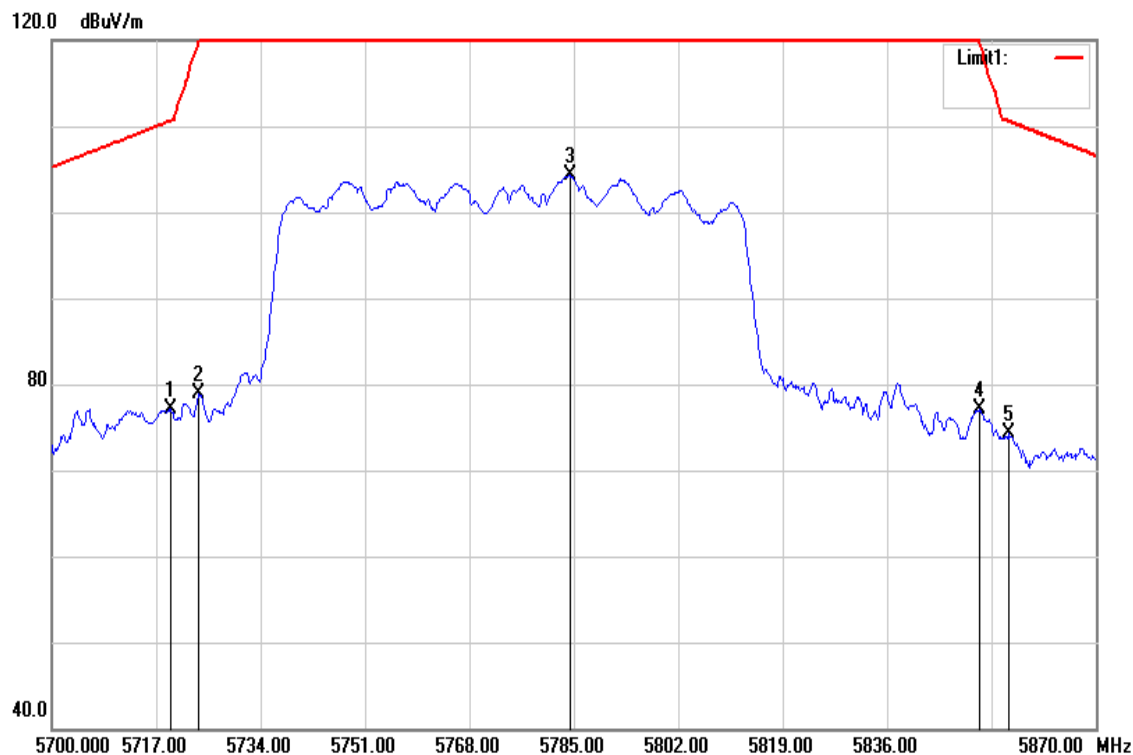
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5792.600	99.41	6.50	105.91	--	--	peak
5852.700	59.10	6.75	65.85	116.04	-50.19	peak
5855.000	58.55	6.76	65.31	110.80	-45.49	peak

Test Mode	IEEE 802.11n HT40 High CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 20, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



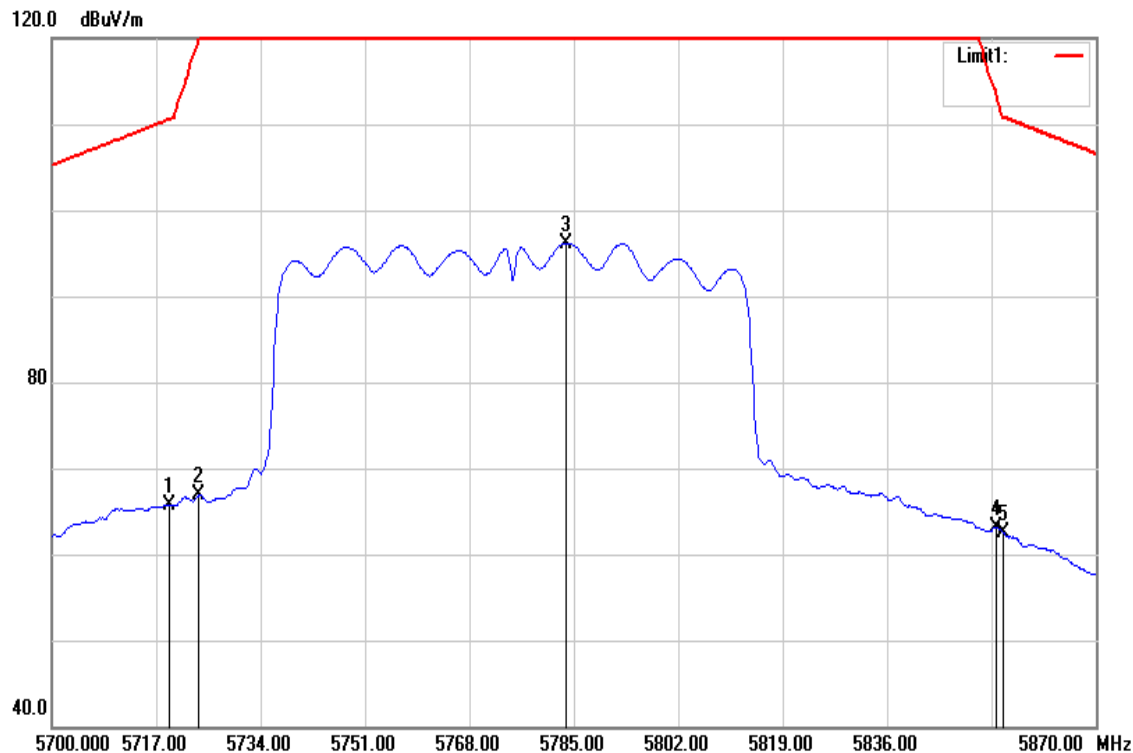
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5793.100	91.62	6.50	98.12	--	--	AVG
5850.100	45.33	6.74	52.07	121.97	-69.90	AVG
5855.000	44.05	6.76	50.81	110.80	-59.99	AVG

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.380	70.99	6.18	77.17	110.63	-33.46	peak
5723.800	72.65	6.20	78.85	119.46	-40.61	peak
5784.320	97.79	6.46	104.25	--	--	peak
5851.130	70.34	6.75	77.09	119.62	-42.53	peak
5855.720	67.46	6.77	74.23	110.60	-36.37	peak

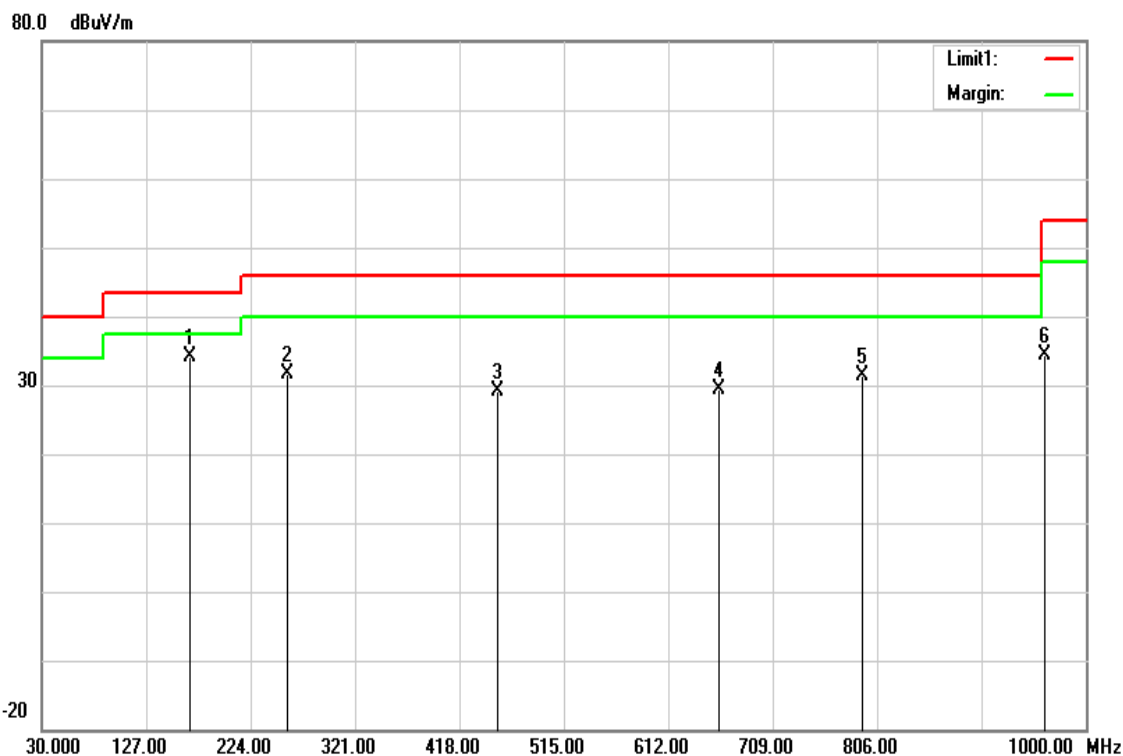
Test Mode	IEEE 802.11ac VHT80 Mid CH	Temperature	22(°C)/ 35%RH
Test Item	Band Edge	Test Date	May 19, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5719.210	59.60	6.18	65.78	110.58	-44.80	AVG
5723.970	60.61	6.20	66.81	119.85	-53.04	AVG
5783.640	89.74	6.46	96.20	--	--	AVG
5853.850	56.38	6.76	63.14	113.42	-50.28	AVG
5854.870	55.83	6.76	62.59	111.10	-48.51	AVG

**Below 1G Test Data**

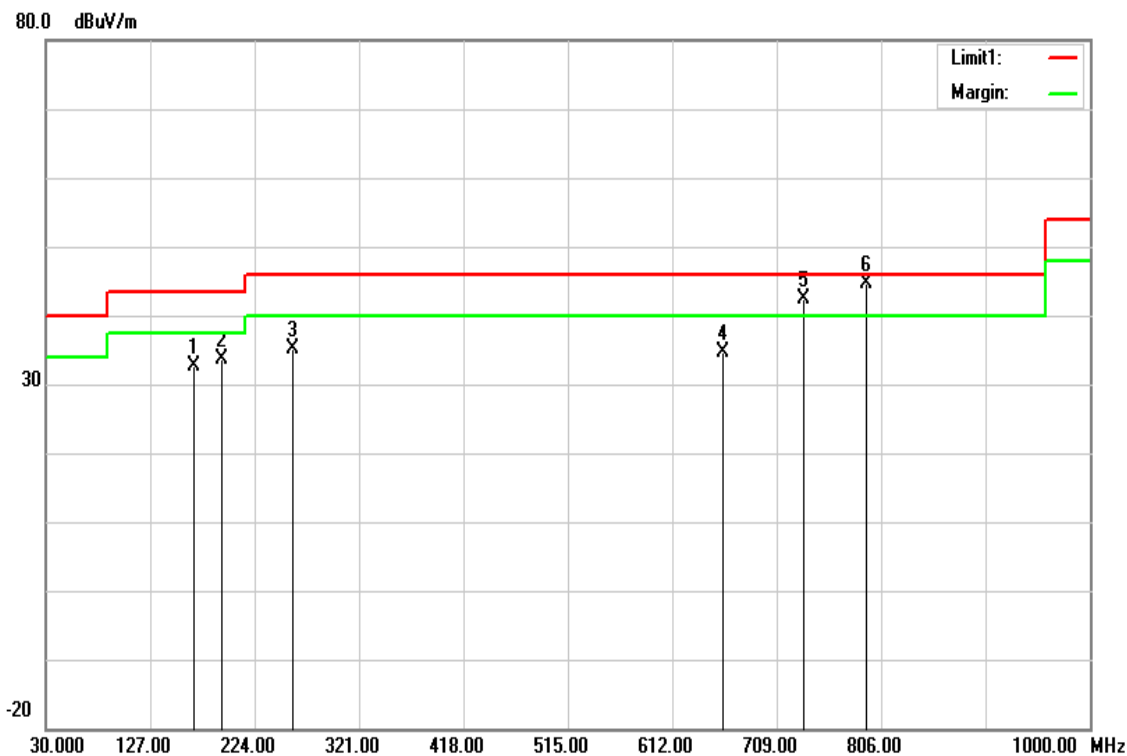
Test Mode	Mode 1	Temp/Hum	22(°C)/ 35%RH
Test Item	30MHz-1GHz	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Qusi-peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
167.7400	50.89	-16.74	34.15	43.50	-9.35	peak
257.9500	47.25	-15.69	31.56	46.00	-14.44	peak
452.9200	39.27	-10.13	29.14	46.00	-16.86	peak
659.5300	35.78	-6.47	29.31	46.00	-16.69	peak
792.4200	36.03	-4.56	31.47	46.00	-14.53	peak
962.1700	36.63	-2.20	34.43	54.00	-19.57	peak



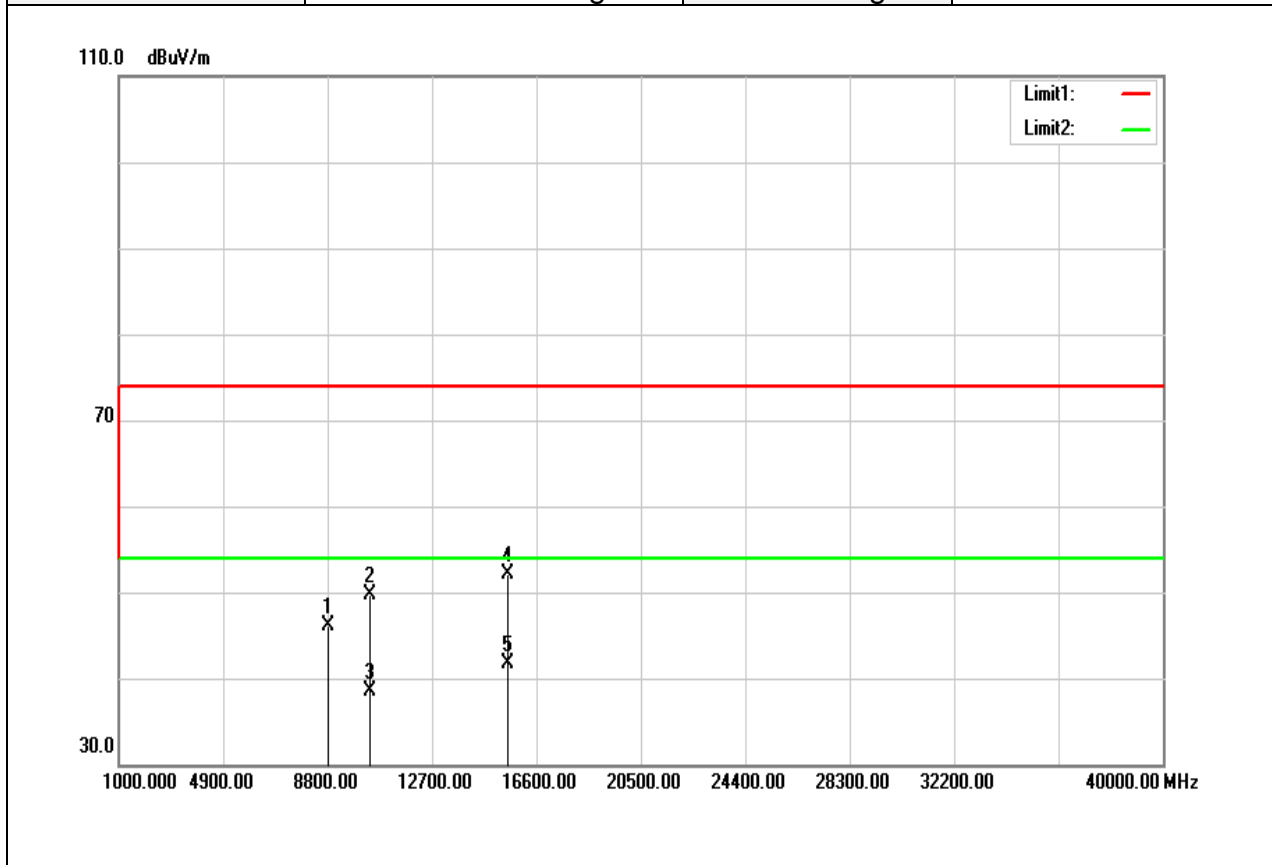
Test Mode	Mode 1	Temp/Hum	22(°C)/ 35%RH
Test Item	30MHz-1GHz	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Qusi-peak	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
167.7400	49.25	-16.74	32.51	43.50	-10.99	peak
193.9300	49.81	-16.09	33.72	43.50	-9.78	peak
258.9200	50.85	-15.62	35.23	46.00	-10.77	peak
659.5300	41.04	-6.47	34.57	46.00	-11.43	peak
734.2200	47.64	-5.28	42.36	46.00	-3.64	QP
792.4200	49.10	-4.56	44.54	46.00	-1.46	QP

**Above 1G Test Data for UNII-1**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

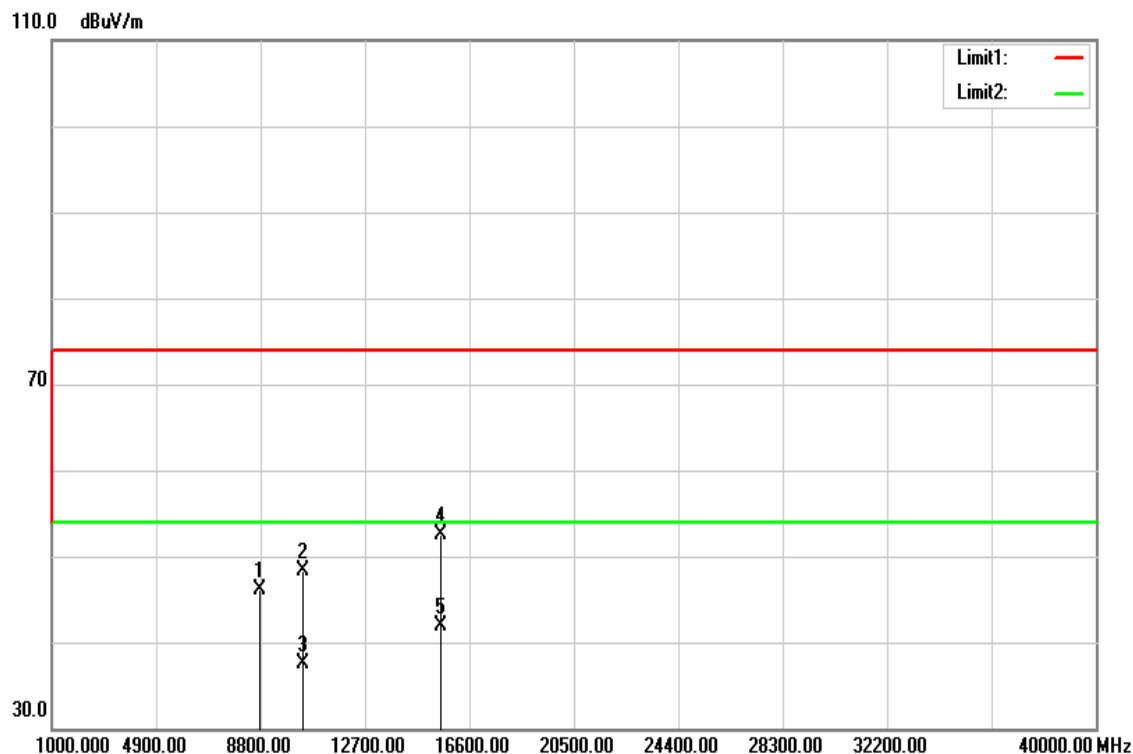


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	32.38	13.79	46.17	74.00	-27.83	peak
10360.000	33.27	16.52	49.79	74.00	-24.21	peak
10360.000	22.02	16.52	38.54	54.00	-15.46	AVG
15540.000	33.04	19.04	52.08	74.00	-21.92	peak
15540.000	22.59	19.04	41.63	54.00	-12.37	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

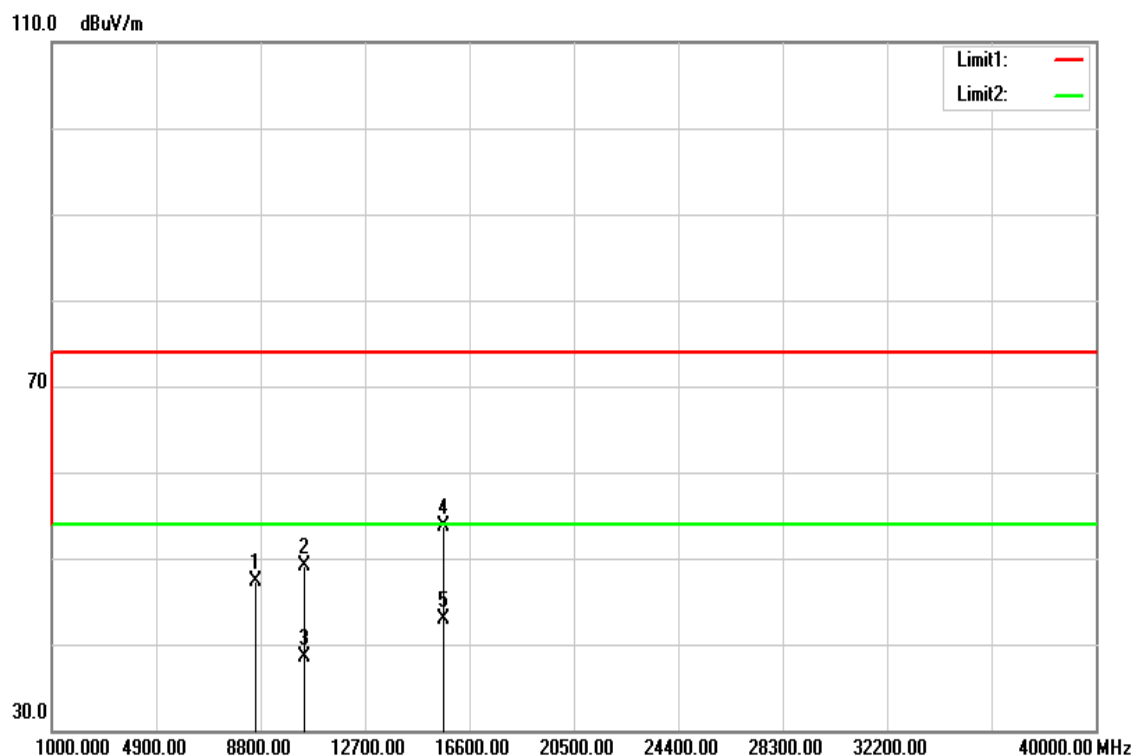


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.27	13.75	46.02	74.00	-27.98	peak
10360.000	31.68	16.52	48.20	74.00	-25.80	peak
10360.000	21.02	16.52	37.54	54.00	-16.46	AVG
15540.000	33.37	19.04	52.41	74.00	-21.59	peak
15540.000	22.92	19.04	41.96	54.00	-12.04	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

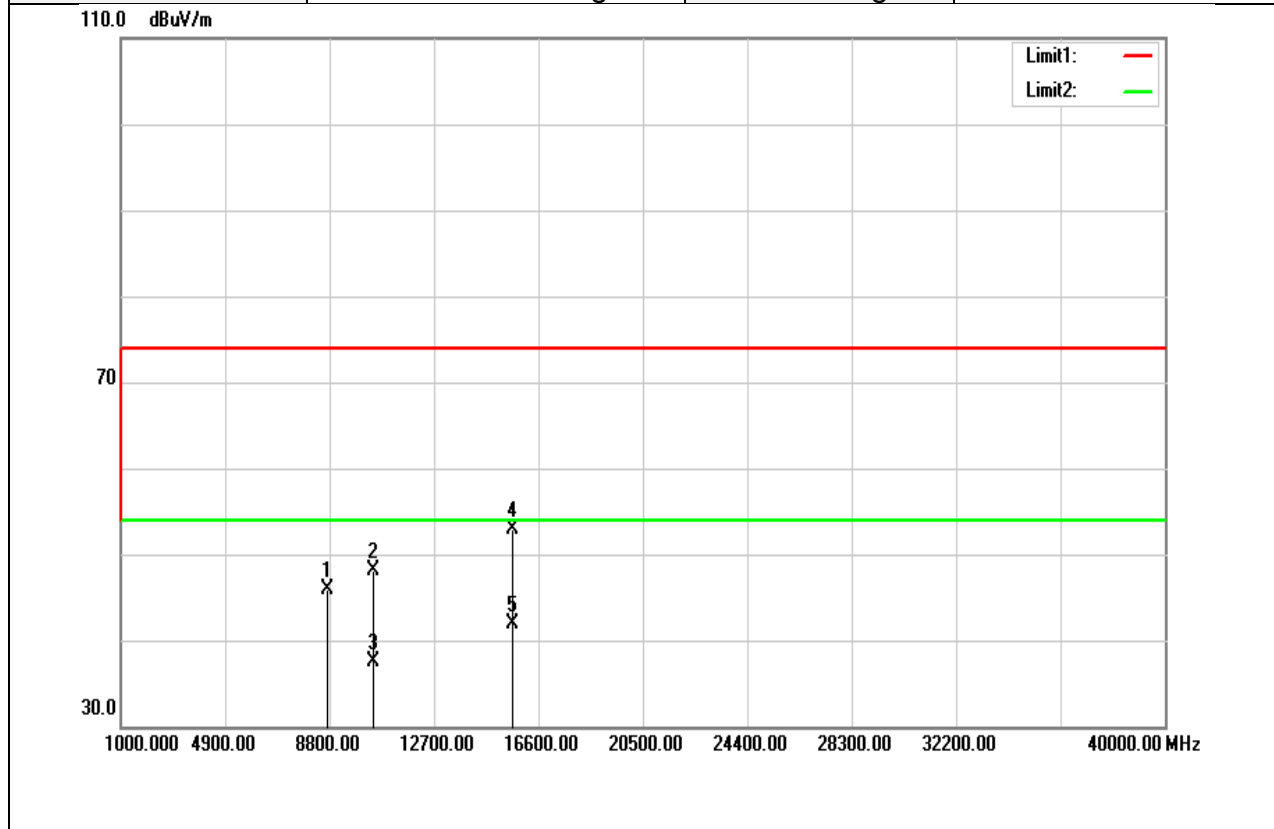


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	33.57	13.70	47.27	74.00	-26.73	peak
10440.000	32.16	16.89	49.05	74.00	-24.95	peak
10440.000	21.59	16.89	38.48	54.00	-15.52	AVG
15660.000	34.66	19.14	53.80	74.00	-20.20	peak
15660.000	23.85	19.14	42.99	54.00	-11.01	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

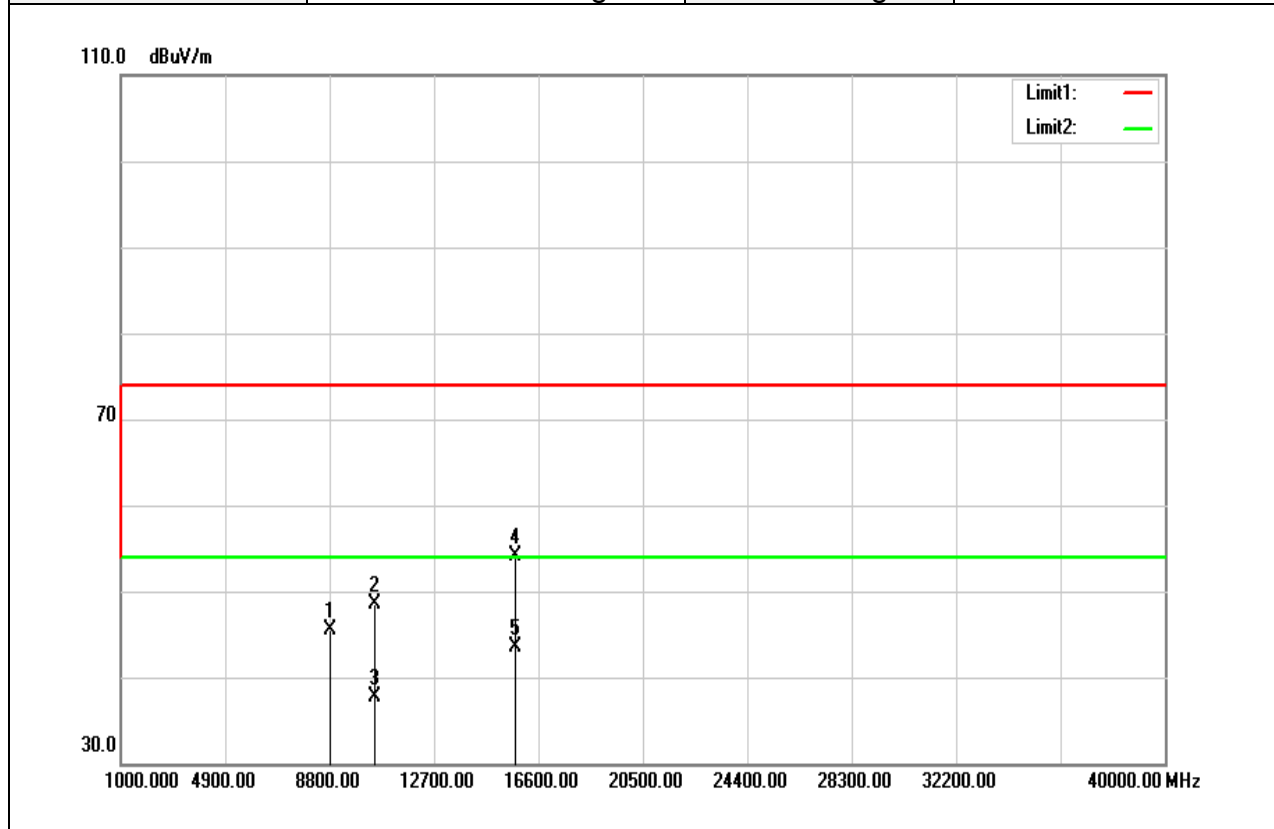


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	32.23	13.75	45.98	74.00	-28.02	peak
10440.000	31.26	16.89	48.15	74.00	-25.85	peak
10440.000	20.66	16.89	37.55	54.00	-16.45	AVG
15660.000	33.74	19.14	52.88	74.00	-21.12	peak
15660.000	22.80	19.14	41.94	54.00	-12.06	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

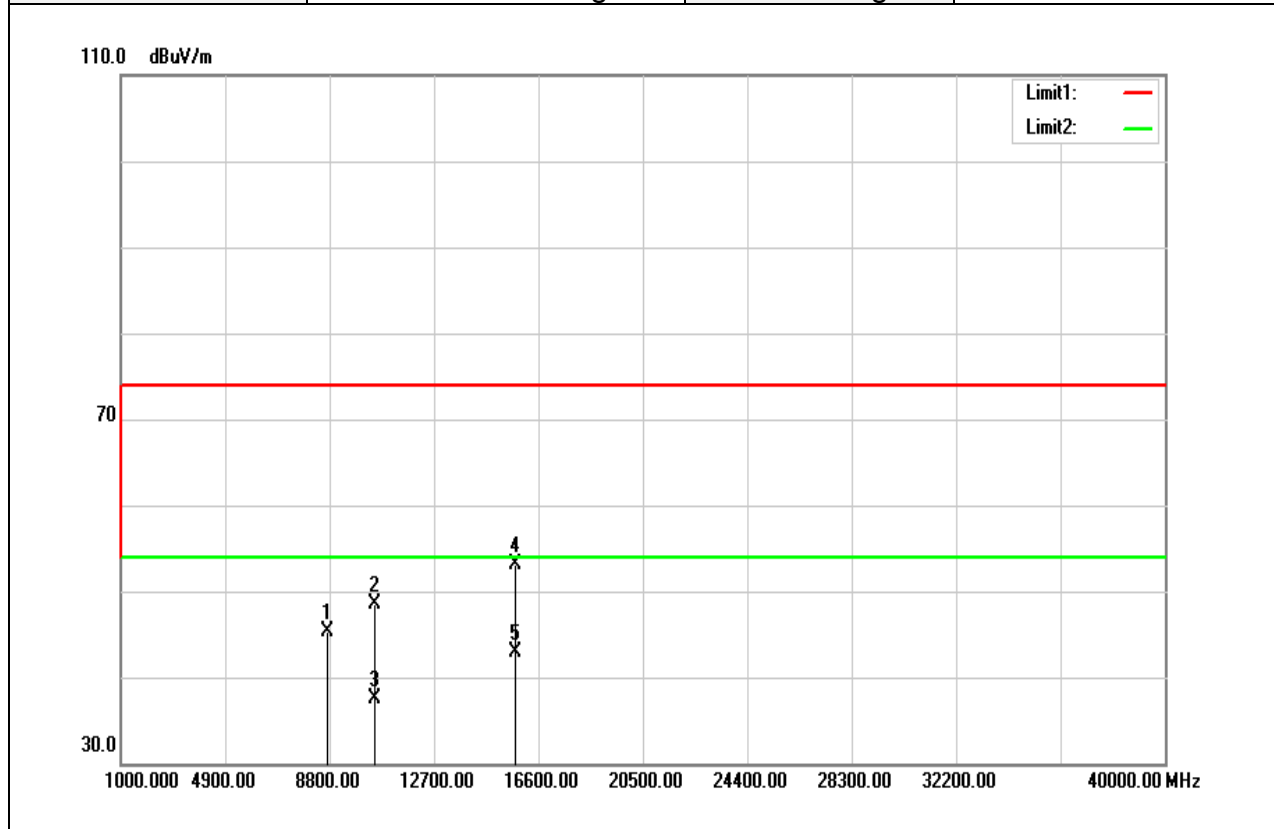


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	31.65	13.79	45.44	74.00	-28.56	peak
10480.000	31.44	17.07	48.51	74.00	-25.49	peak
10480.000	20.56	17.07	37.63	54.00	-16.37	AVG
15720.000	34.82	19.19	54.01	74.00	-19.99	peak
15720.000	24.35	19.19	43.54	54.00	-10.46	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

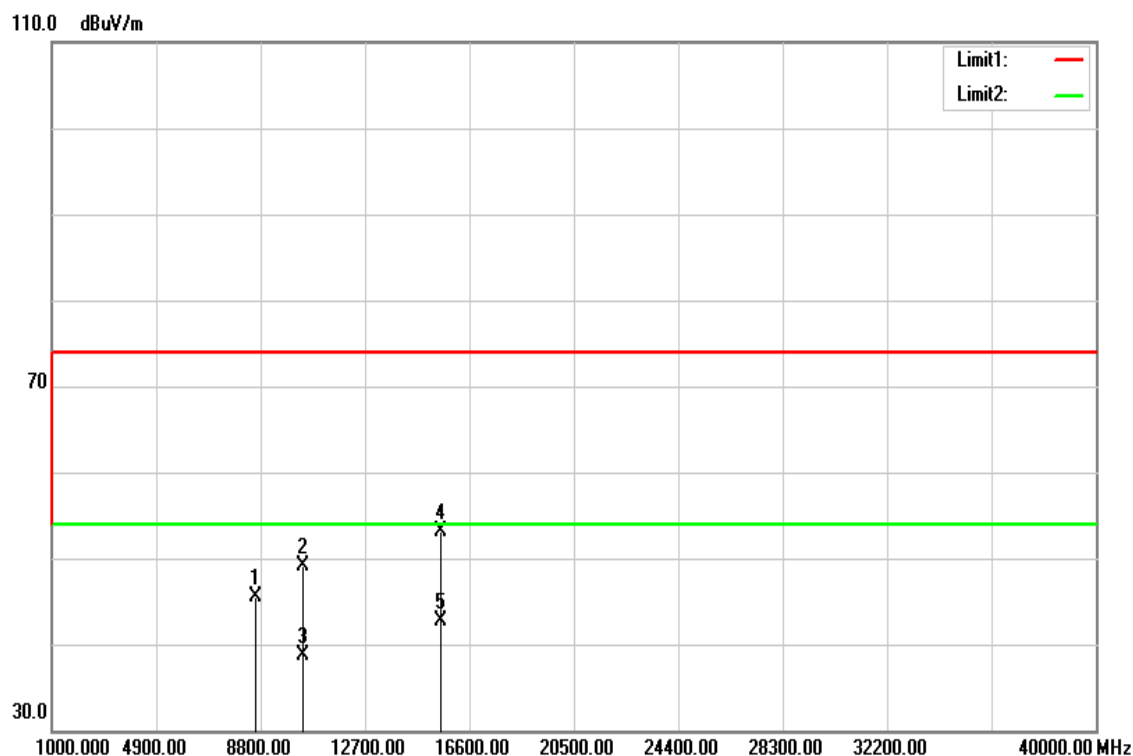


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	31.60	13.75	45.35	74.00	-28.65	peak
10480.000	31.39	17.07	48.46	74.00	-25.54	peak
10480.000	20.45	17.07	37.52	54.00	-16.48	AVG
15720.000	33.84	19.19	53.03	74.00	-20.97	peak
15720.000	23.68	19.19	42.87	54.00	-11.13	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



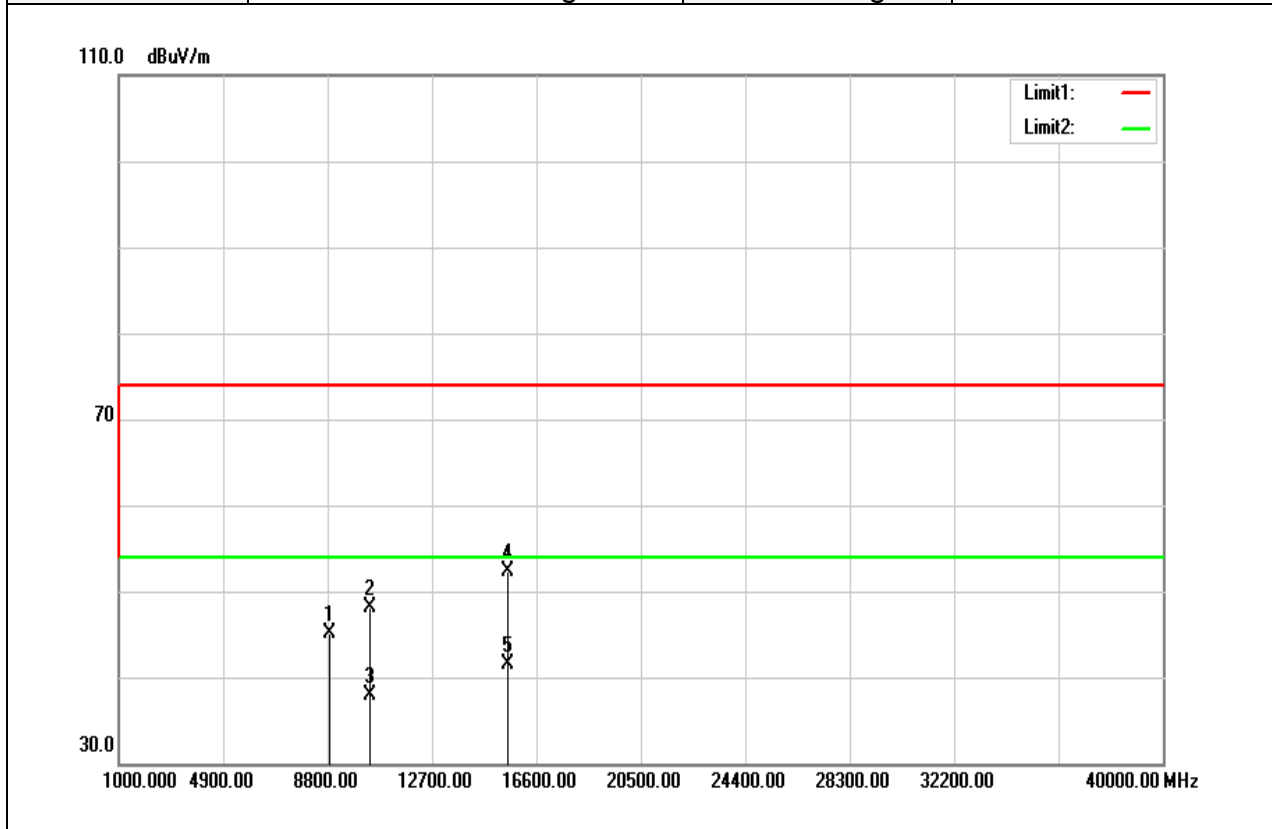
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	31.81	13.70	45.51	74.00	-28.49	peak
10360.000	32.62	16.52	49.14	74.00	-24.86	peak
10360.000	22.22	16.52	38.74	54.00	-15.26	AVG
15540.000	34.05	19.04	53.09	74.00	-20.91	peak
15540.000	23.61	19.04	42.65	54.00	-11.35	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

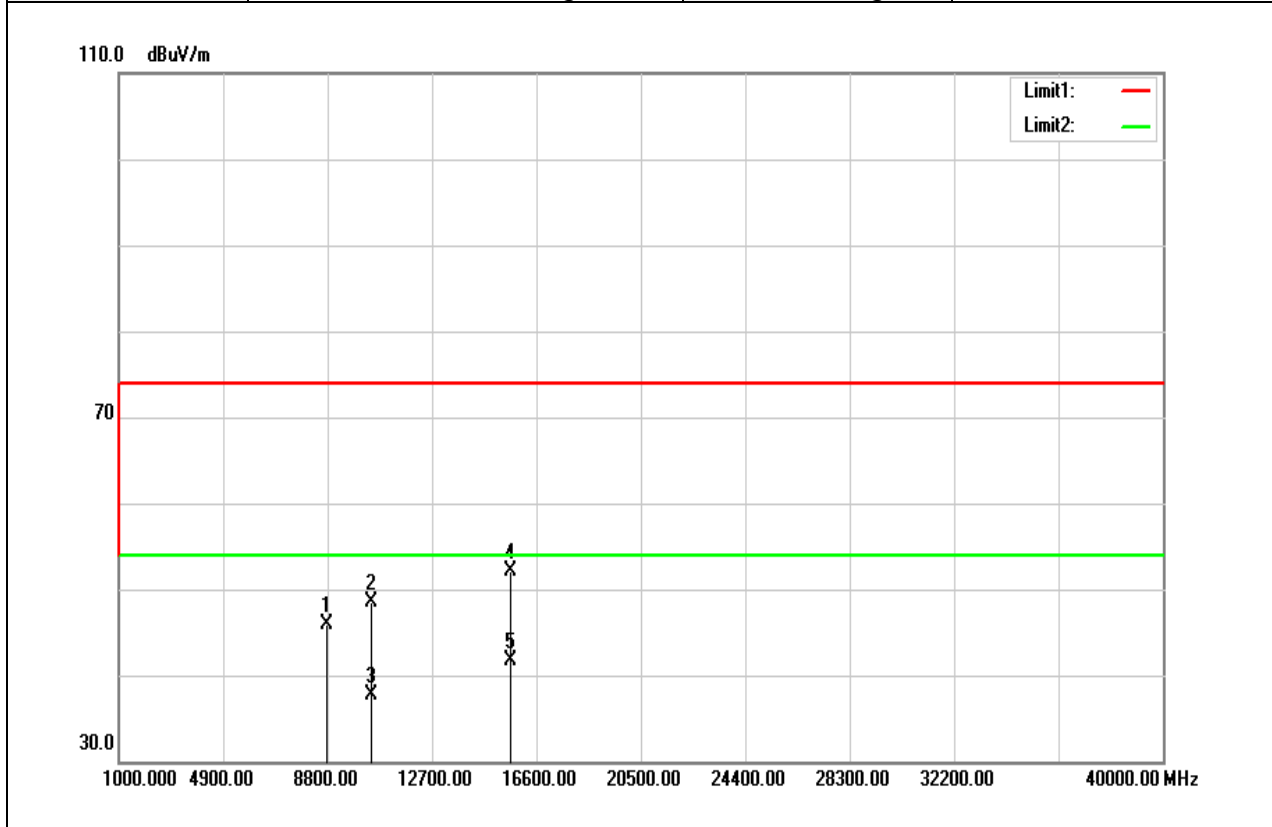


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8870.000	31.31	13.81	45.12	74.00	-28.88	peak
10360.000	31.59	16.52	48.11	74.00	-25.89	peak
10360.000	21.31	16.52	37.83	54.00	-16.17	AVG
15540.000	33.22	19.04	52.26	74.00	-21.74	peak
15540.000	22.43	19.04	41.47	54.00	-12.53	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

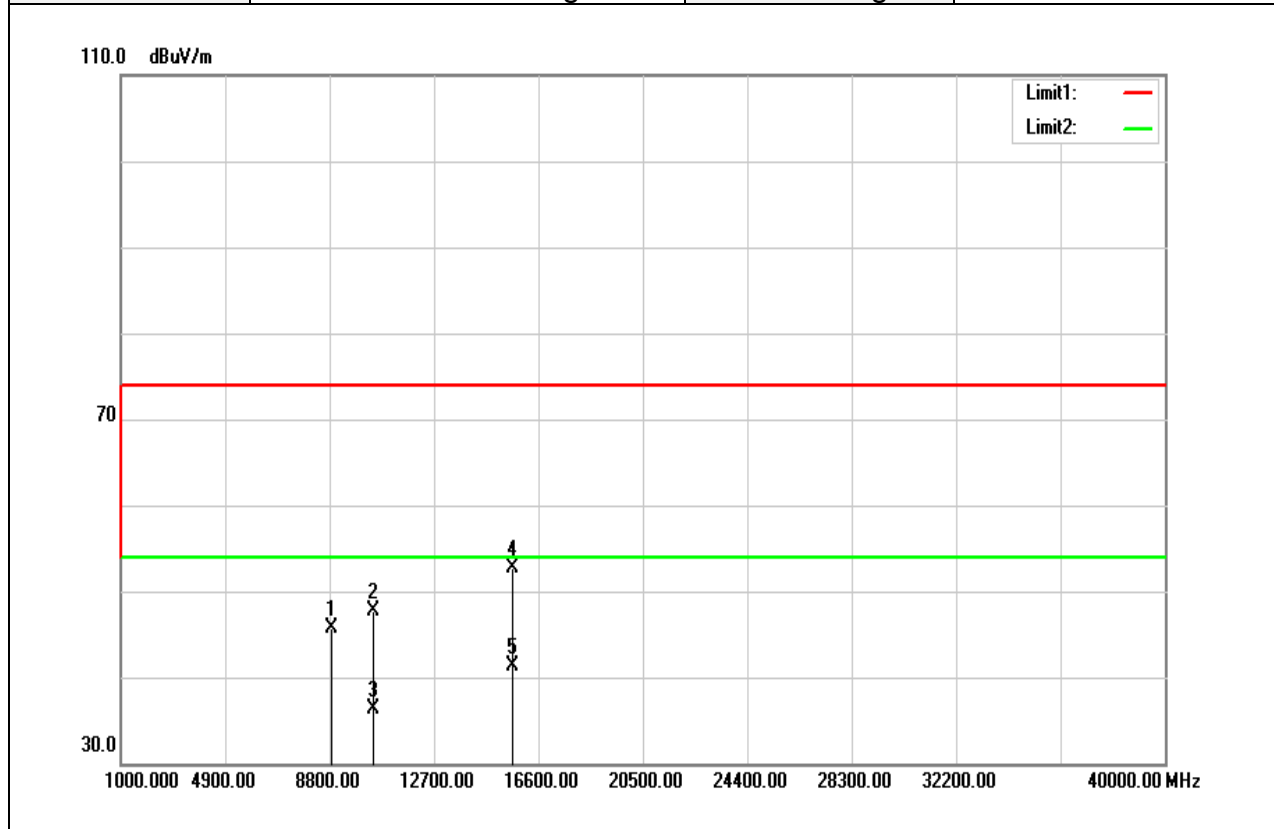


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.08	13.75	45.83	74.00	-28.17	peak
10440.000	31.70	16.89	48.59	74.00	-25.41	peak
10440.000	20.75	16.89	37.64	54.00	-16.36	AVG
15660.000	32.95	19.14	52.09	74.00	-21.91	peak
15660.000	22.65	19.14	41.79	54.00	-12.21	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

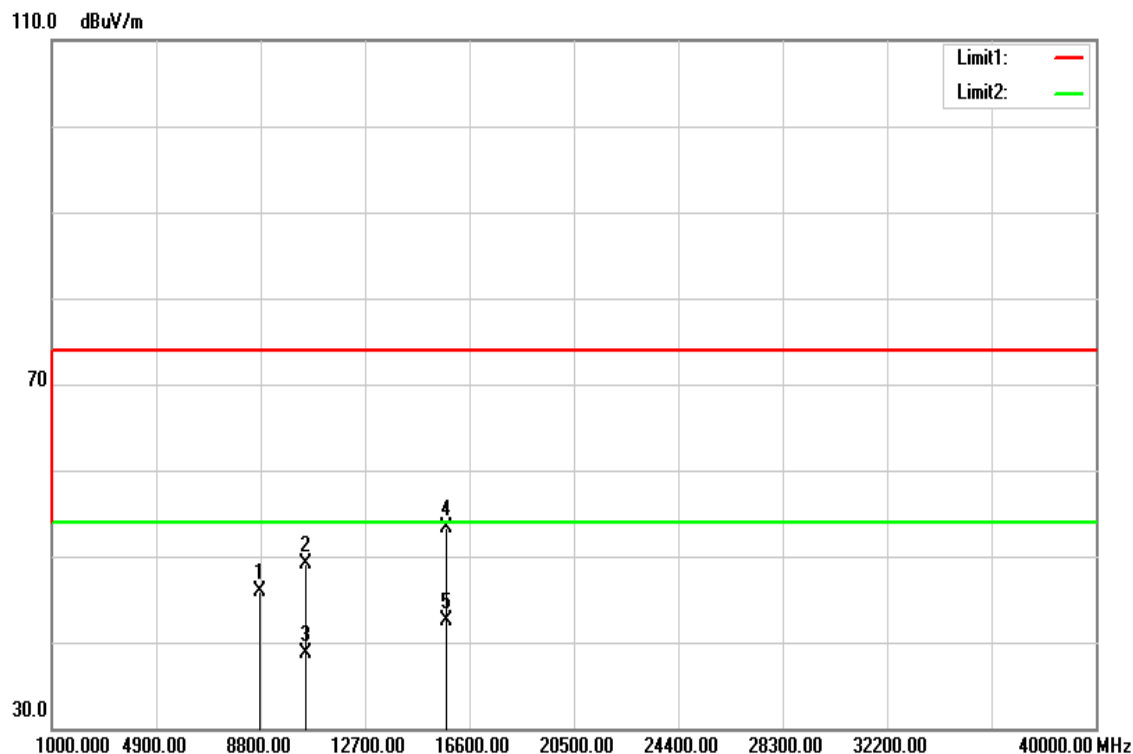


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8860.000	31.95	13.81	45.76	74.00	-28.24	peak
10440.000	30.81	16.89	47.70	74.00	-26.30	peak
10440.000	19.35	16.89	36.24	54.00	-17.76	AVG
15660.000	33.58	19.14	52.72	74.00	-21.28	peak
15660.000	22.25	19.14	41.39	54.00	-12.61	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

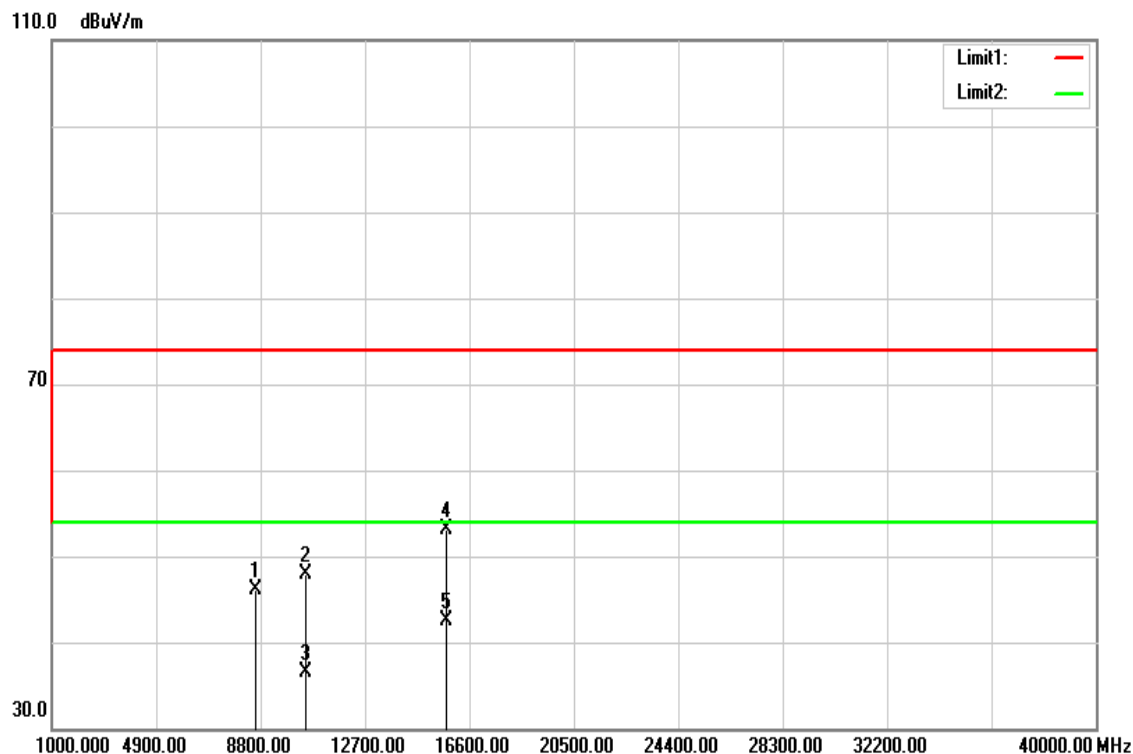


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8760.000	32.15	13.76	45.91	74.00	-28.09	peak
10480.000	32.01	17.07	49.08	74.00	-24.92	peak
10480.000	21.67	17.07	38.74	54.00	-15.26	AVG
15720.000	34.20	19.19	53.39	74.00	-20.61	peak
15720.000	23.40	19.19	42.59	54.00	-11.41	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

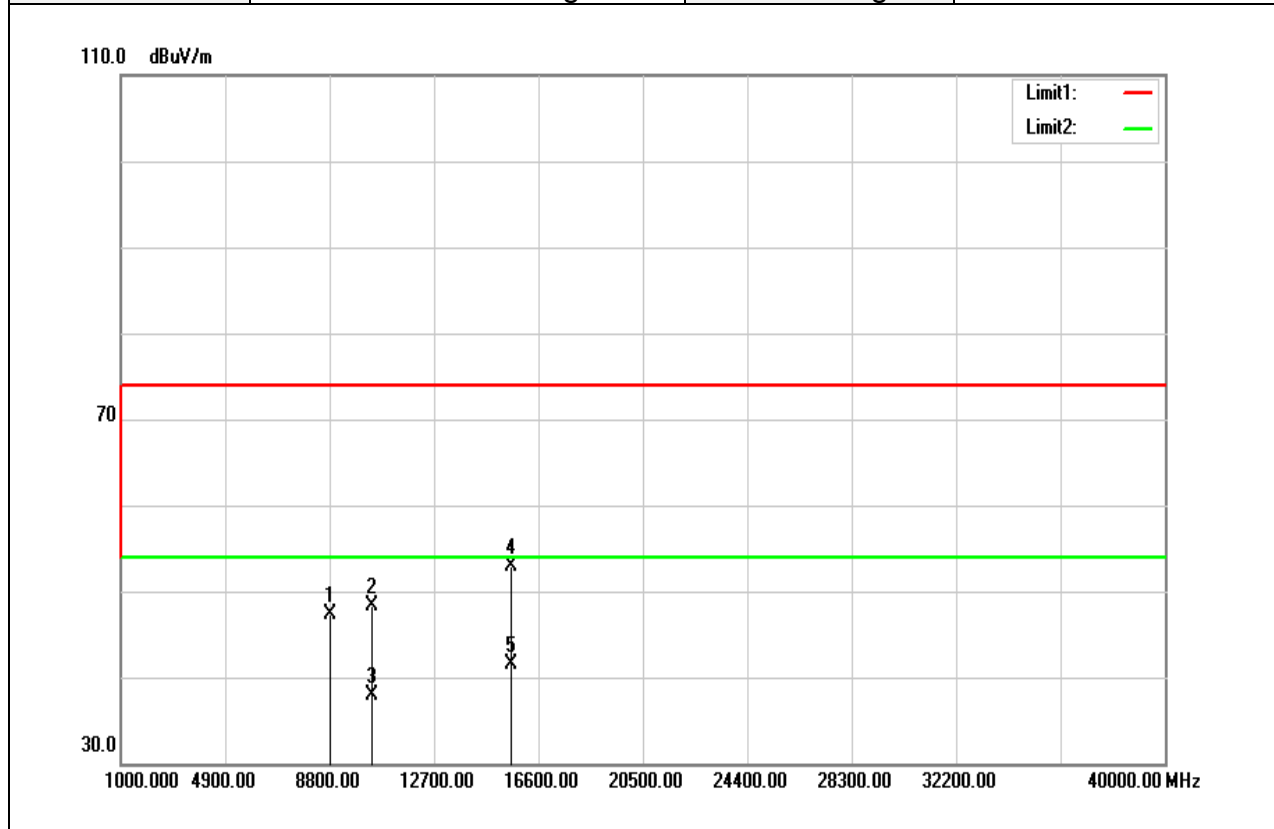


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	32.42	13.70	46.12	74.00	-27.88	peak
10480.000	30.86	17.07	47.93	74.00	-26.07	peak
10480.000	19.51	17.07	36.58	54.00	-17.42	AVG
15720.000	33.82	19.19	53.01	74.00	-20.99	peak
15720.000	23.26	19.19	42.45	54.00	-11.55	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

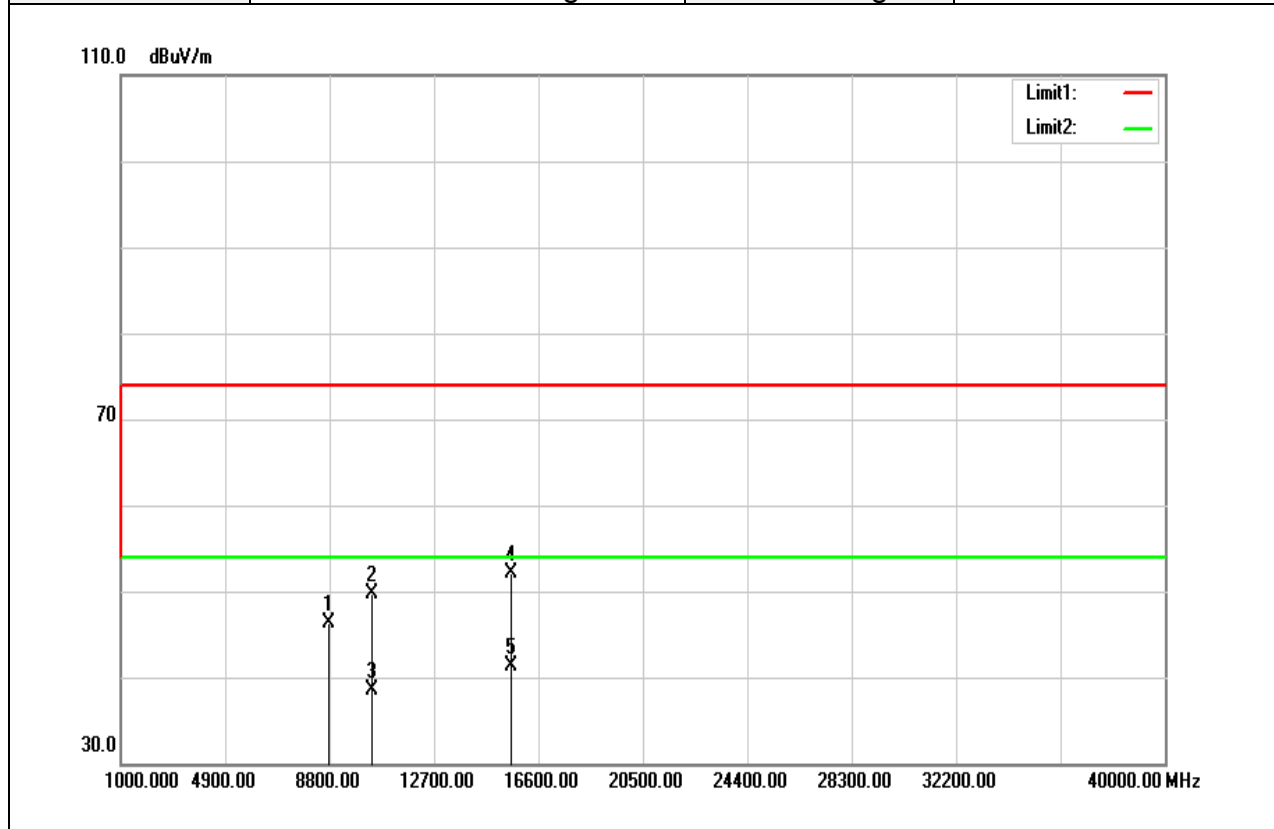


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8830.000	33.61	13.79	47.40	74.00	-26.60	peak
10380.000	31.72	16.62	48.34	74.00	-25.66	peak
10380.000	21.30	16.62	37.92	54.00	-16.08	AVG
15570.000	33.79	19.07	52.86	74.00	-21.14	peak
15570.000	22.40	19.07	41.47	54.00	-12.53	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

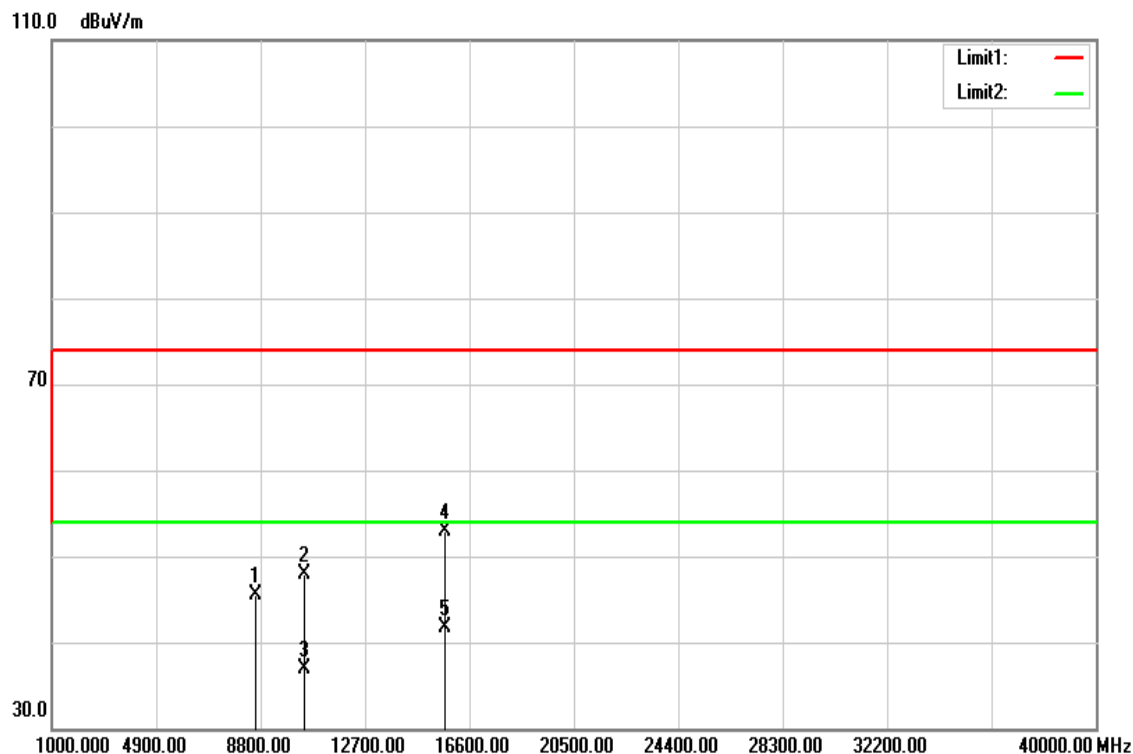


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.59	13.75	46.34	74.00	-27.66	peak
10380.000	33.00	16.62	49.62	74.00	-24.38	peak
10380.000	21.85	16.62	38.47	54.00	-15.53	AVG
15570.000	33.11	19.07	52.18	74.00	-21.82	peak
15570.000	22.22	19.07	41.29	54.00	-12.71	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



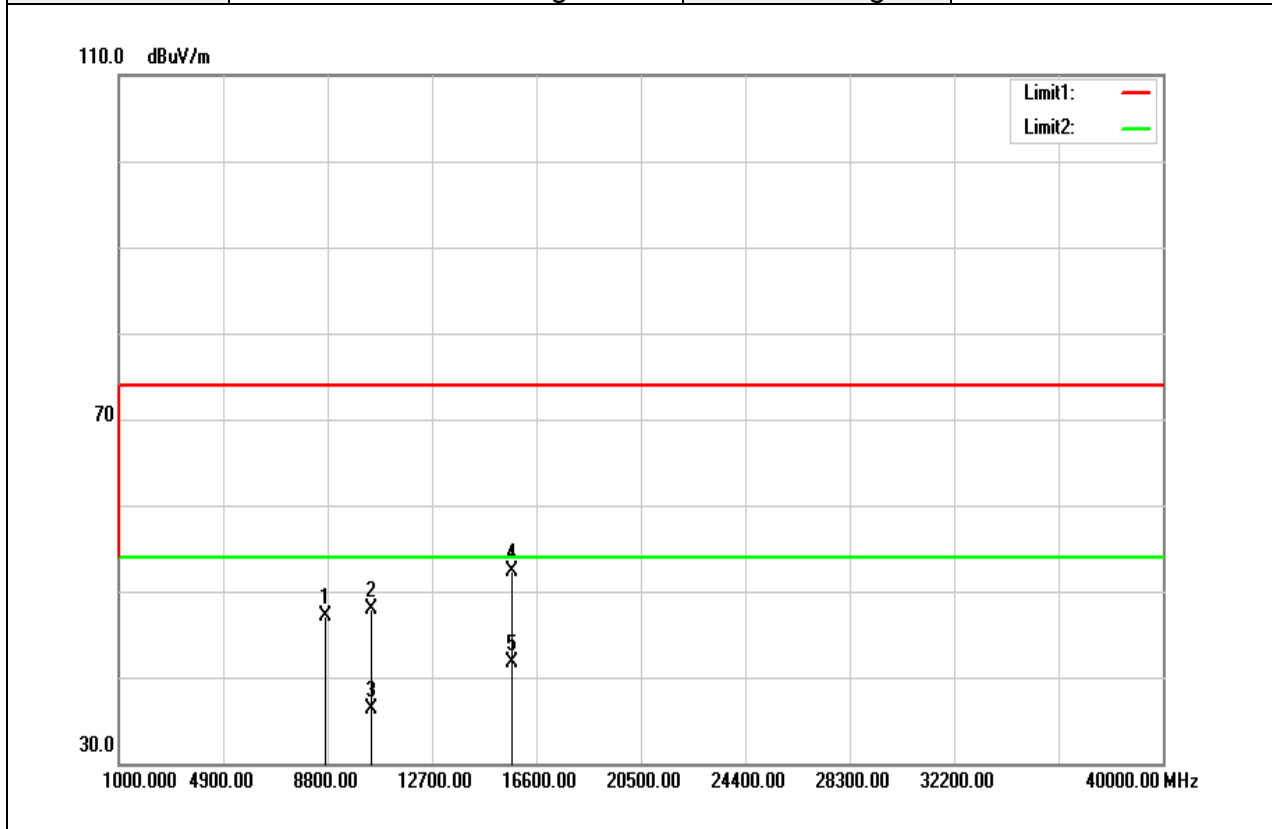
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	31.72	13.70	45.42	74.00	-28.58	peak
10460.000	30.97	16.98	47.95	74.00	-26.05	peak
10460.000	19.90	16.98	36.88	54.00	-17.12	AVG
15690.000	33.76	19.17	52.93	74.00	-21.07	peak
15690.000	22.59	19.17	41.76	54.00	-12.24	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

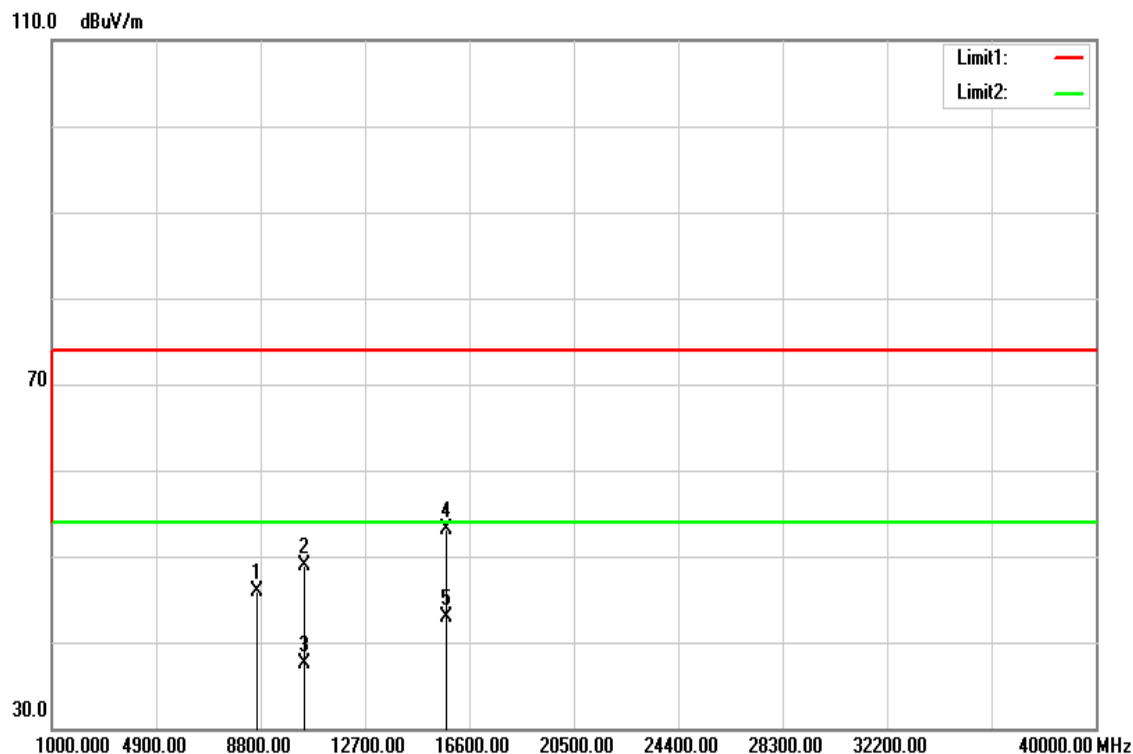


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	33.43	13.75	47.18	74.00	-26.82	peak
10460.000	30.86	16.98	47.84	74.00	-26.16	peak
10460.000	19.29	16.98	36.27	54.00	-17.73	AVG
15690.000	33.08	19.17	52.25	74.00	-21.75	peak
15690.000	22.52	19.17	41.69	54.00	-12.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

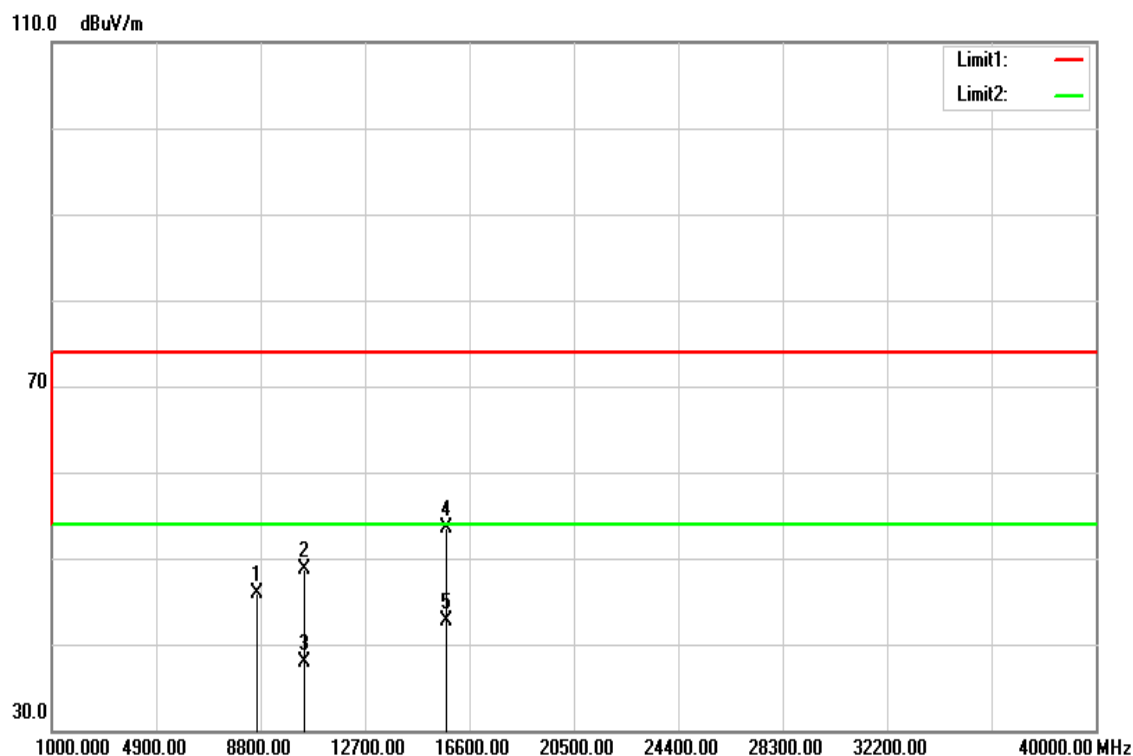


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	32.26	13.71	45.97	74.00	-28.03	peak
10420.000	32.05	16.80	48.85	74.00	-25.15	peak
10420.000	20.75	16.80	37.55	54.00	-16.45	AVG
15720.000	33.89	19.19	53.08	74.00	-20.92	peak
15720.000	23.79	19.19	42.98	54.00	-11.02	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



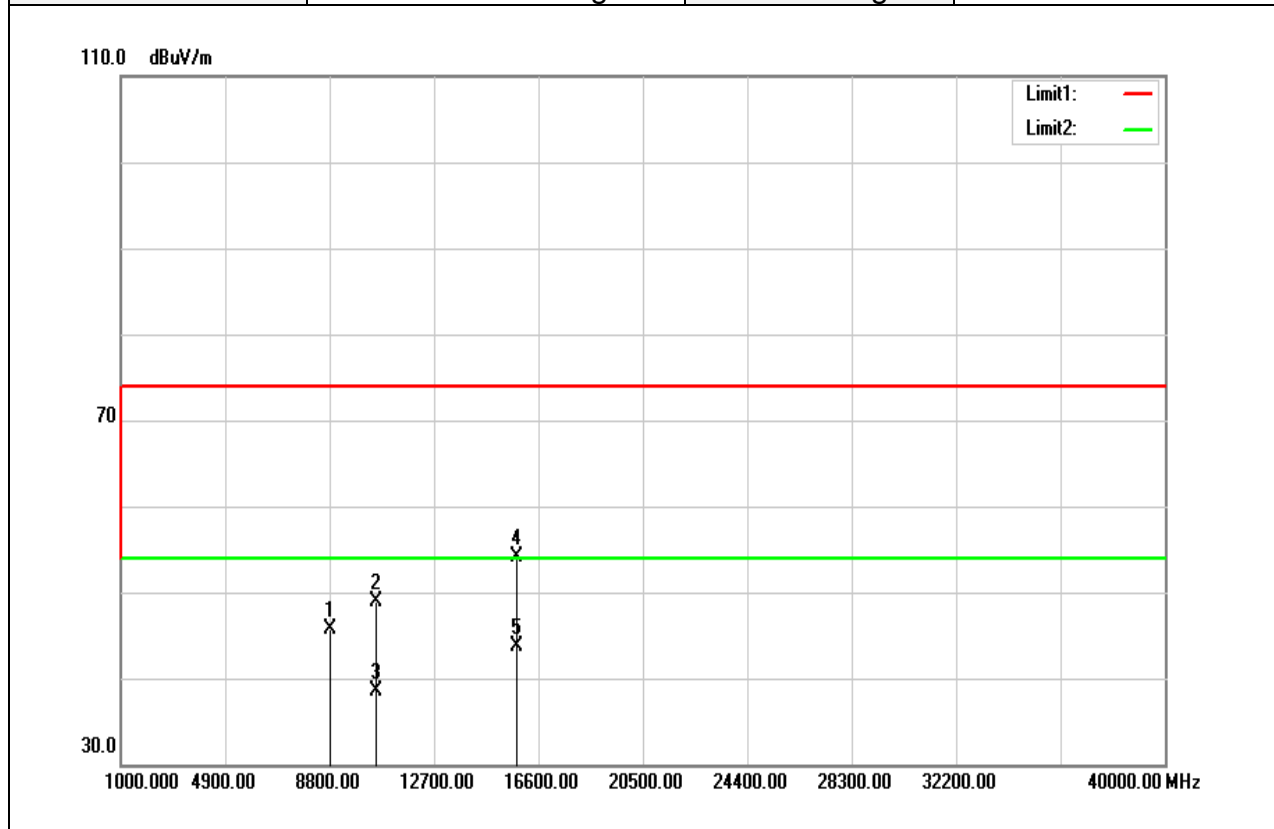
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	32.25	13.73	45.98	74.00	-28.02	peak
10420.000	31.87	16.80	48.67	74.00	-25.33	peak
10420.000	21.04	16.80	37.84	54.00	-16.16	AVG
15720.000	34.29	19.19	53.48	74.00	-20.52	peak
15720.000	23.44	19.19	42.63	54.00	-11.37	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

**Above 1G Test Data for UNII-2a**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

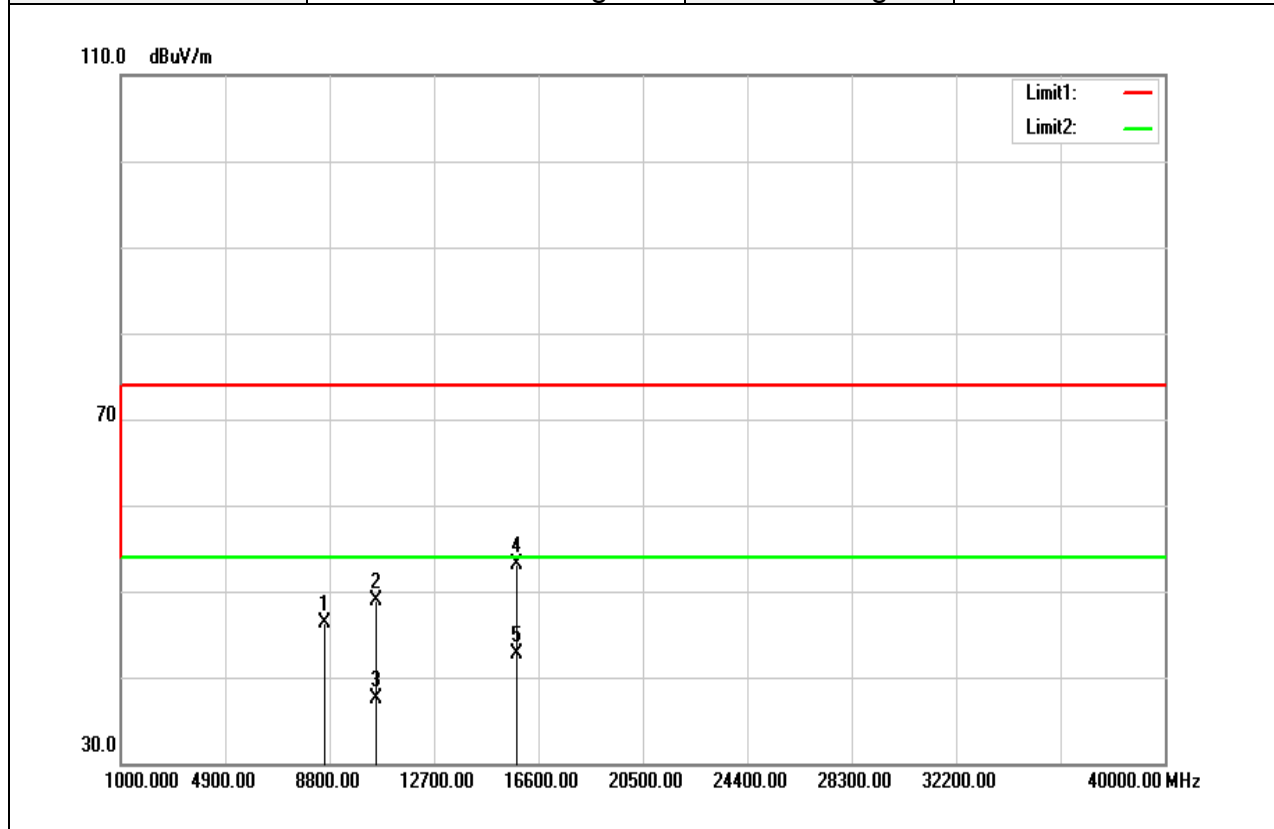


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8840.000	31.93	13.80	45.73	74.00	-28.27	peak
10520.000	31.86	17.14	49.00	74.00	-25.00	peak
10520.000	21.41	17.14	38.55	54.00	-15.45	AVG
15780.000	34.88	19.25	54.13	74.00	-19.87	peak
15780.000	24.42	19.25	43.67	54.00	-10.33	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

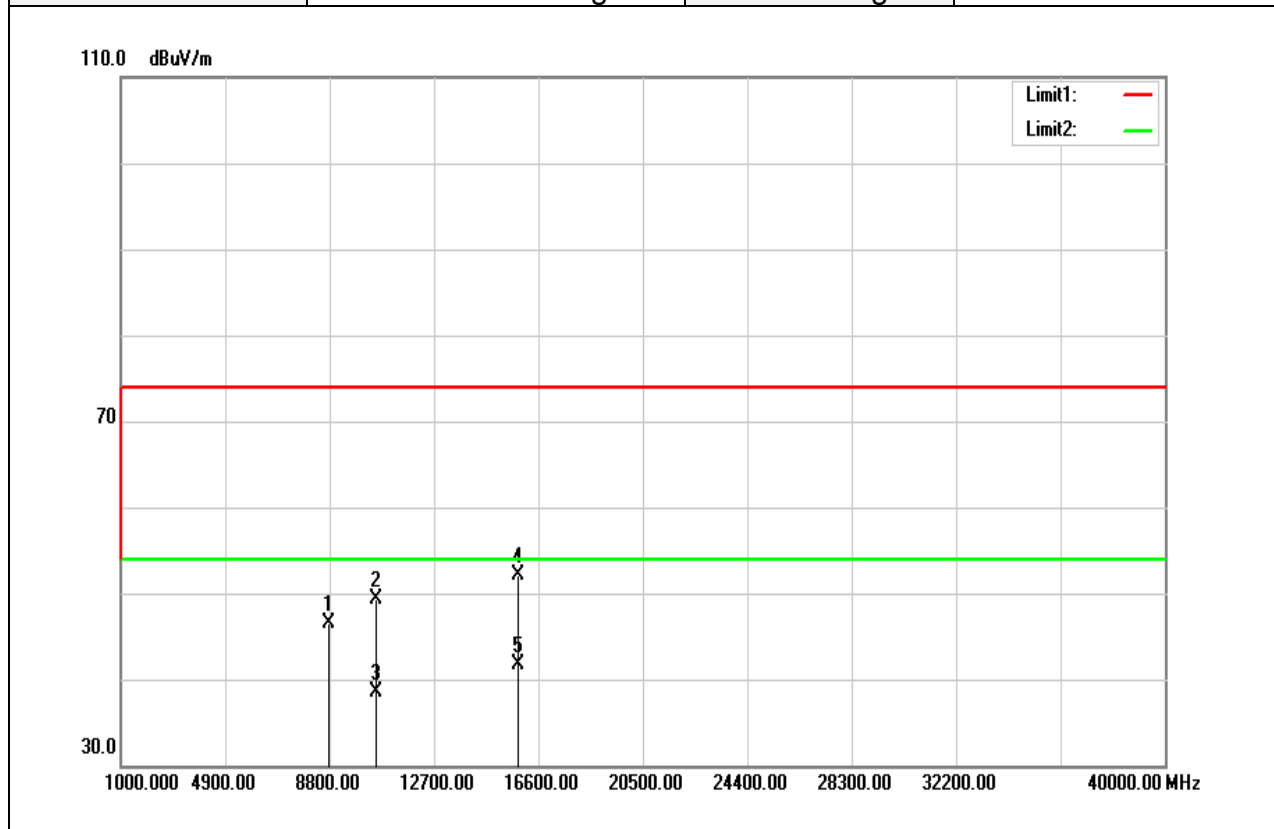


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	32.58	13.70	46.28	74.00	-27.72	peak
10520.000	31.67	17.14	48.81	74.00	-25.19	peak
10520.000	20.44	17.14	37.58	54.00	-16.42	AVG
15780.000	33.79	19.25	53.04	74.00	-20.96	peak
15780.000	23.39	19.25	42.64	54.00	-11.36	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	
Test Item	Harmonic	Test Date	
Polarize	Vertical	Test Engineer	
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

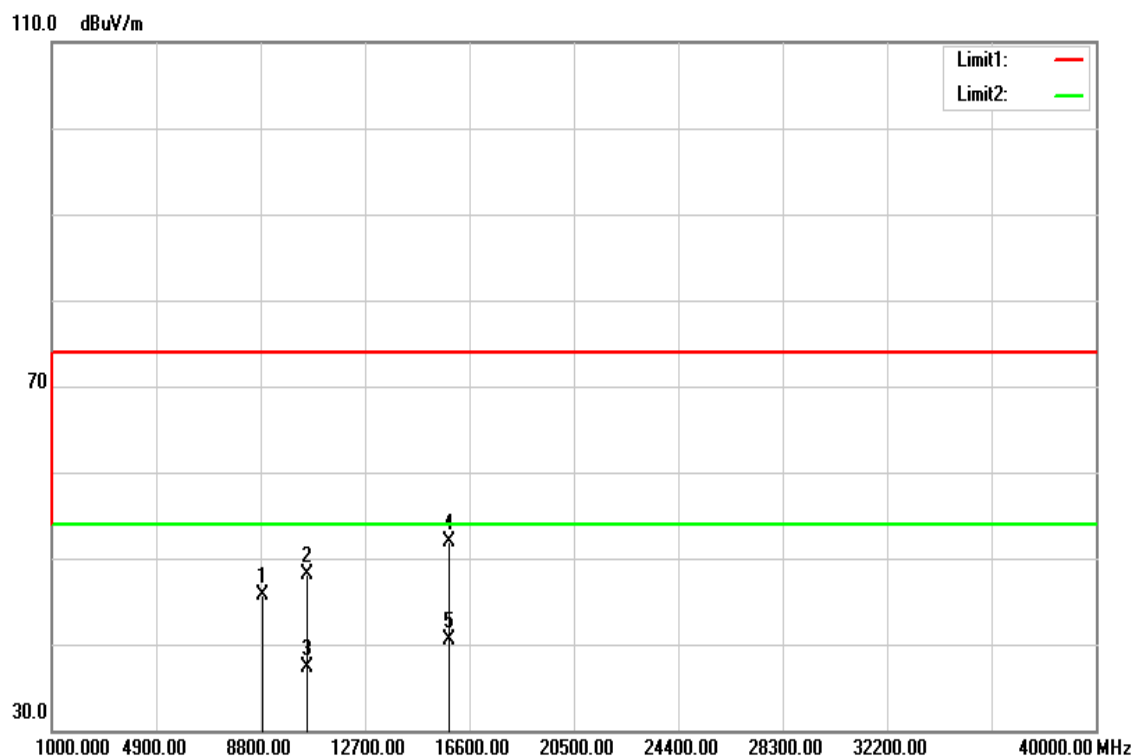


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8760.000	32.75	13.76	46.51	74.00	-27.49	peak
10560.000	32.09	17.11	49.20	74.00	-24.80	peak
10560.000	21.41	17.11	38.52	54.00	-15.48	AVG
15840.000	32.80	19.30	52.10	74.00	-21.90	peak
15840.000	22.37	19.30	41.67	54.00	-12.33	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

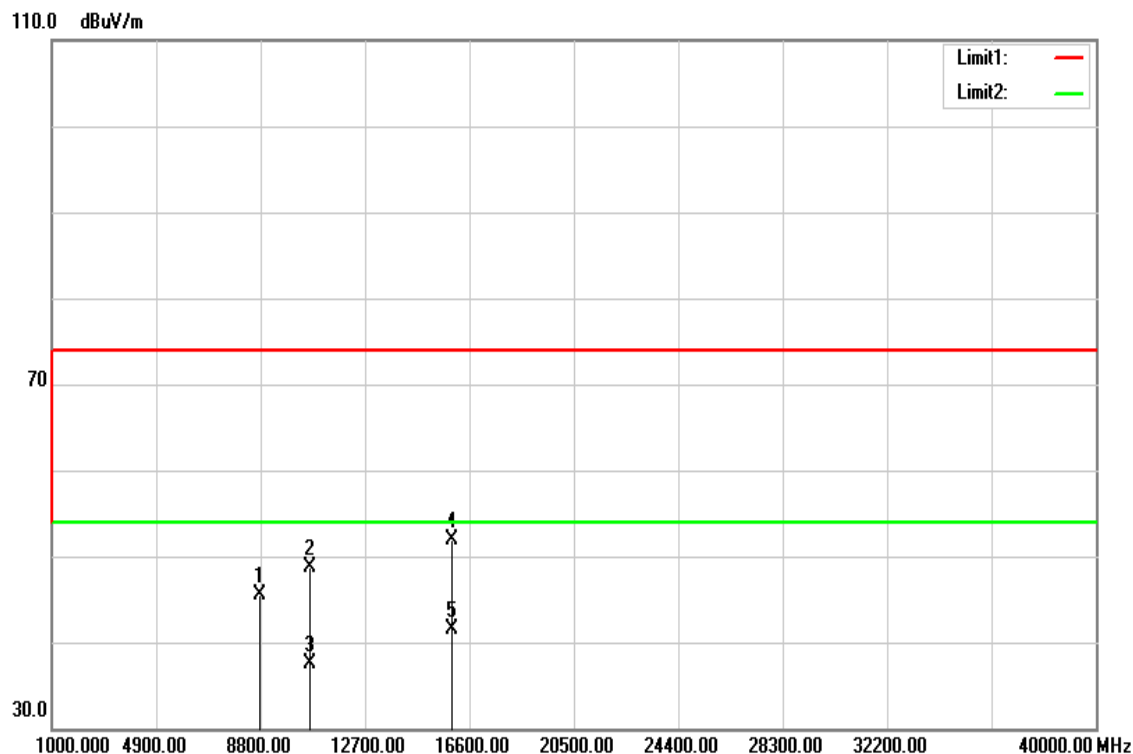


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8880.000	31.89	13.81	45.70	74.00	-28.30	peak
10560.000	30.97	17.11	48.08	74.00	-25.92	peak
10560.000	20.13	17.11	37.24	54.00	-16.76	AVG
15840.000	32.52	19.30	51.82	74.00	-22.18	peak
15840.000	21.27	19.30	40.57	54.00	-13.43	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



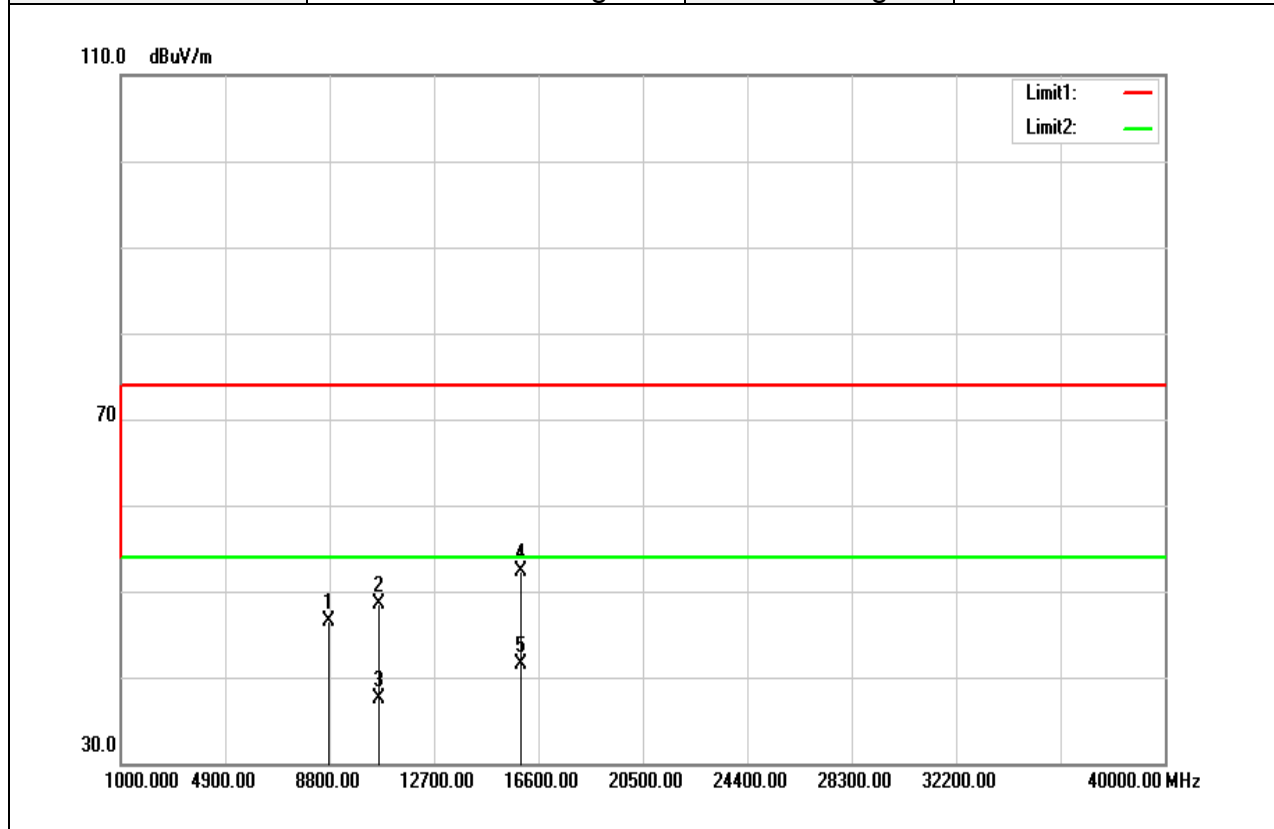
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8790.000	31.79	13.77	45.56	74.00	-28.44	peak
10640.000	31.70	17.04	48.74	74.00	-25.26	peak
10640.000	20.51	17.04	37.55	54.00	-16.45	AVG
15960.000	32.60	19.40	52.00	74.00	-22.00	peak
15960.000	22.07	19.40	41.47	54.00	-12.53	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

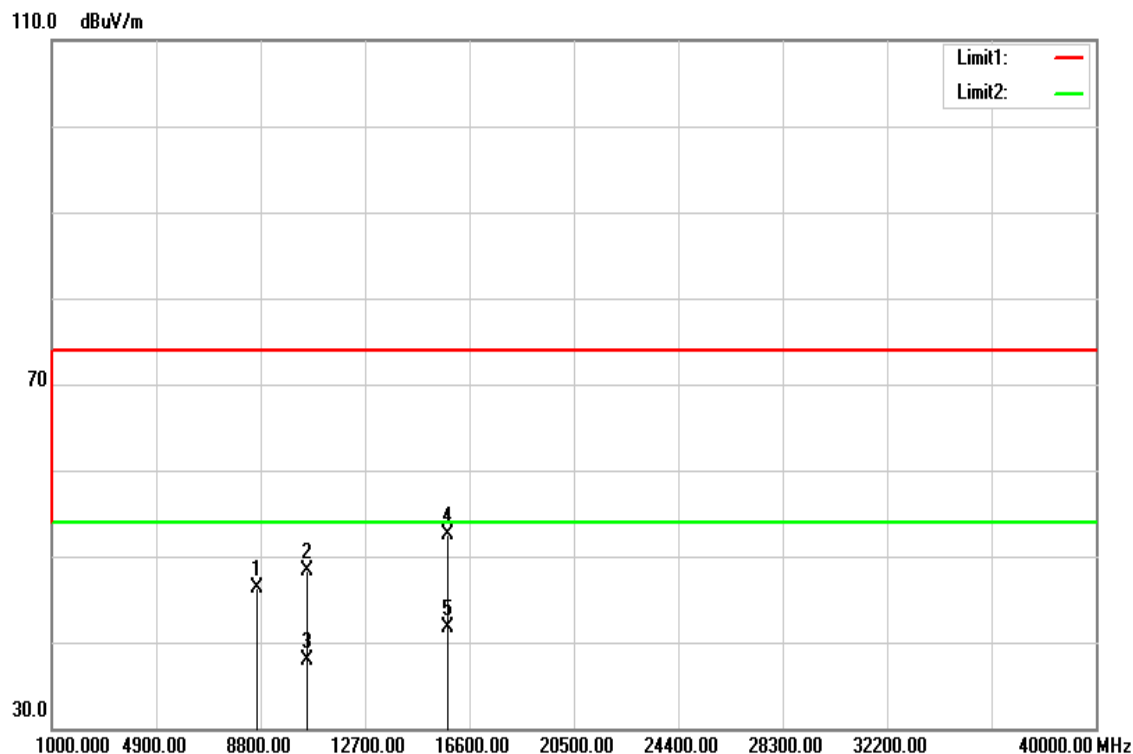


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.70	13.75	46.45	74.00	-27.55	peak
10640.000	31.41	17.04	48.45	74.00	-25.55	peak
10640.000	20.50	17.04	37.54	54.00	-16.46	AVG
15960.000	32.90	19.40	52.30	74.00	-21.70	peak
15960.000	22.07	19.40	41.47	54.00	-12.53	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

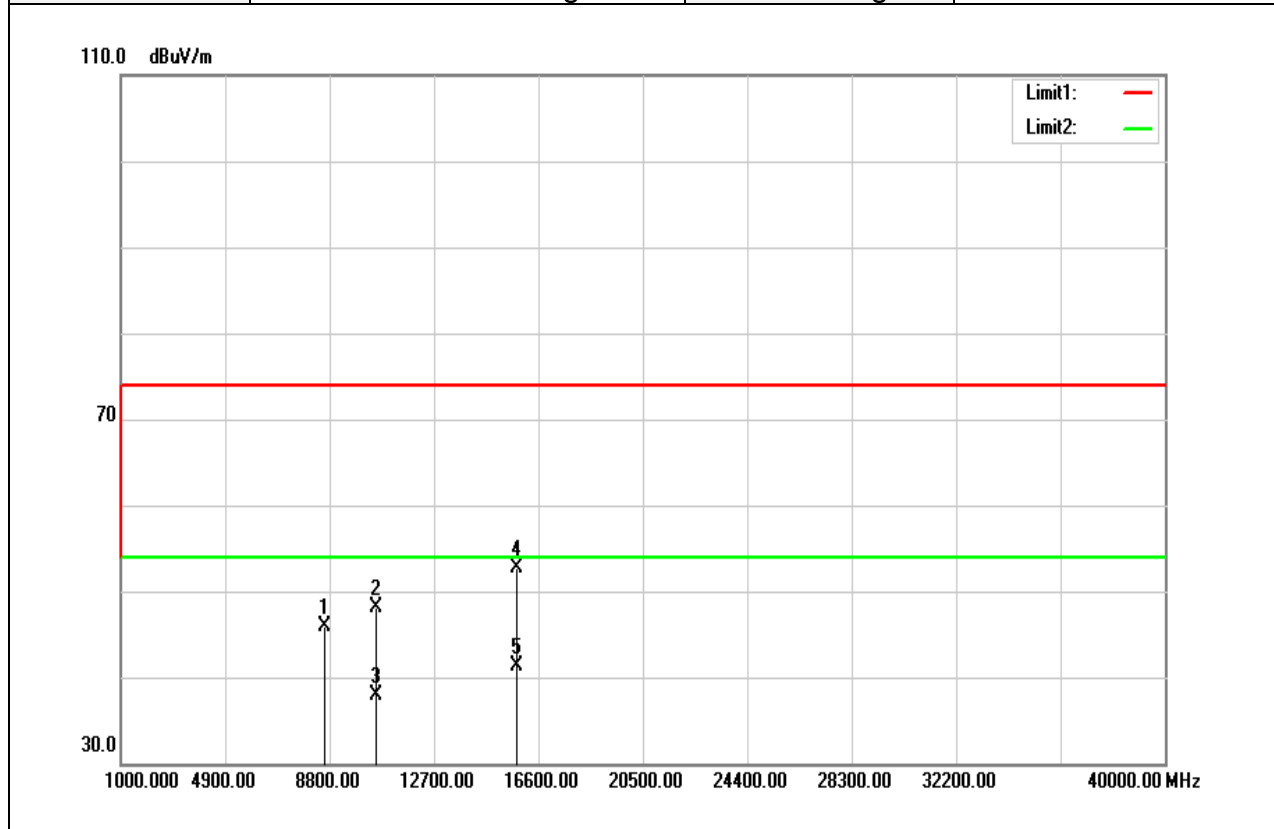


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	32.62	13.71	46.33	74.00	-27.67	peak
10520.000	31.25	17.14	48.39	74.00	-25.61	peak
10520.000	20.74	17.14	37.88	54.00	-16.12	AVG
15780.000	33.18	19.25	52.43	74.00	-21.57	peak
15780.000	22.39	19.25	41.64	54.00	-12.36	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

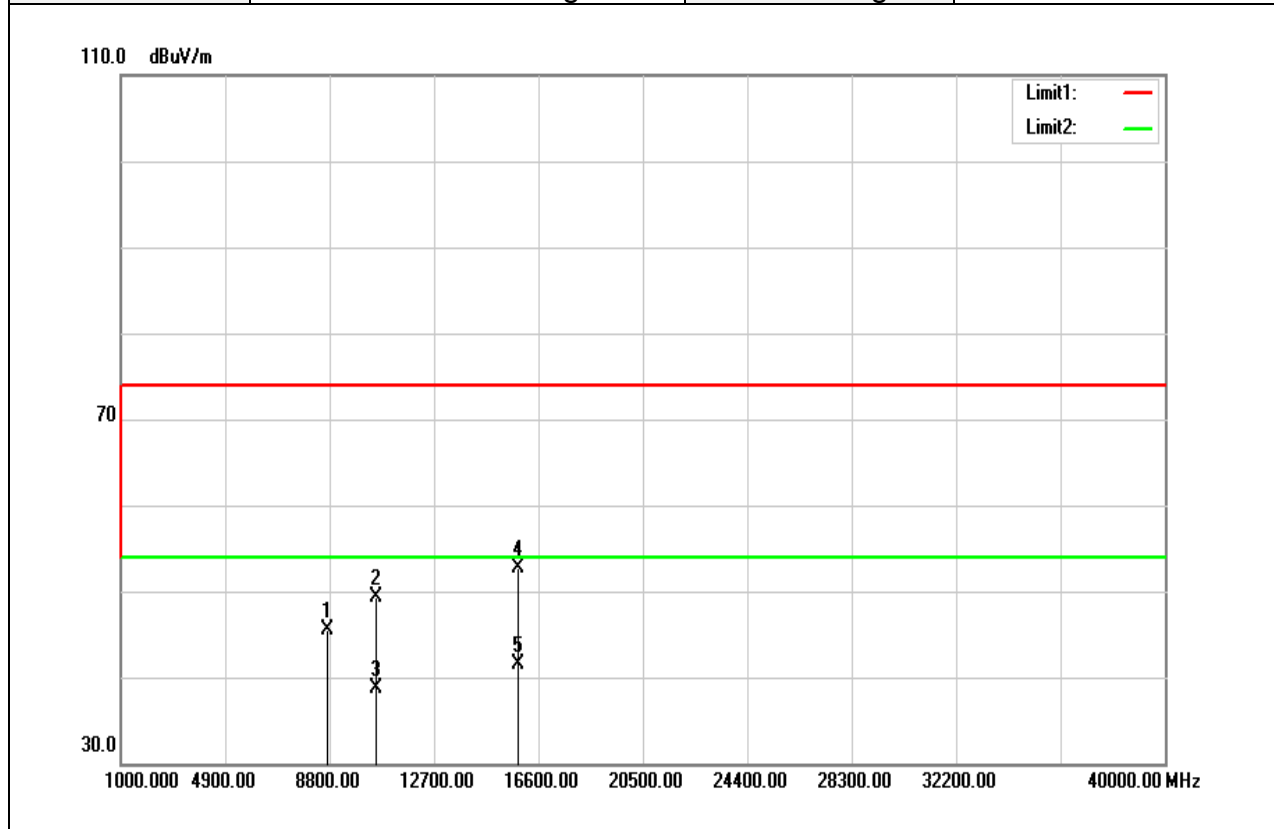


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	32.28	13.70	45.98	74.00	-28.02	peak
10520.000	30.89	17.14	48.03	74.00	-25.97	peak
10520.000	20.70	17.14	37.84	54.00	-16.16	AVG
15780.000	33.36	19.25	52.61	74.00	-21.39	peak
15780.000	22.08	19.25	41.33	54.00	-12.67	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

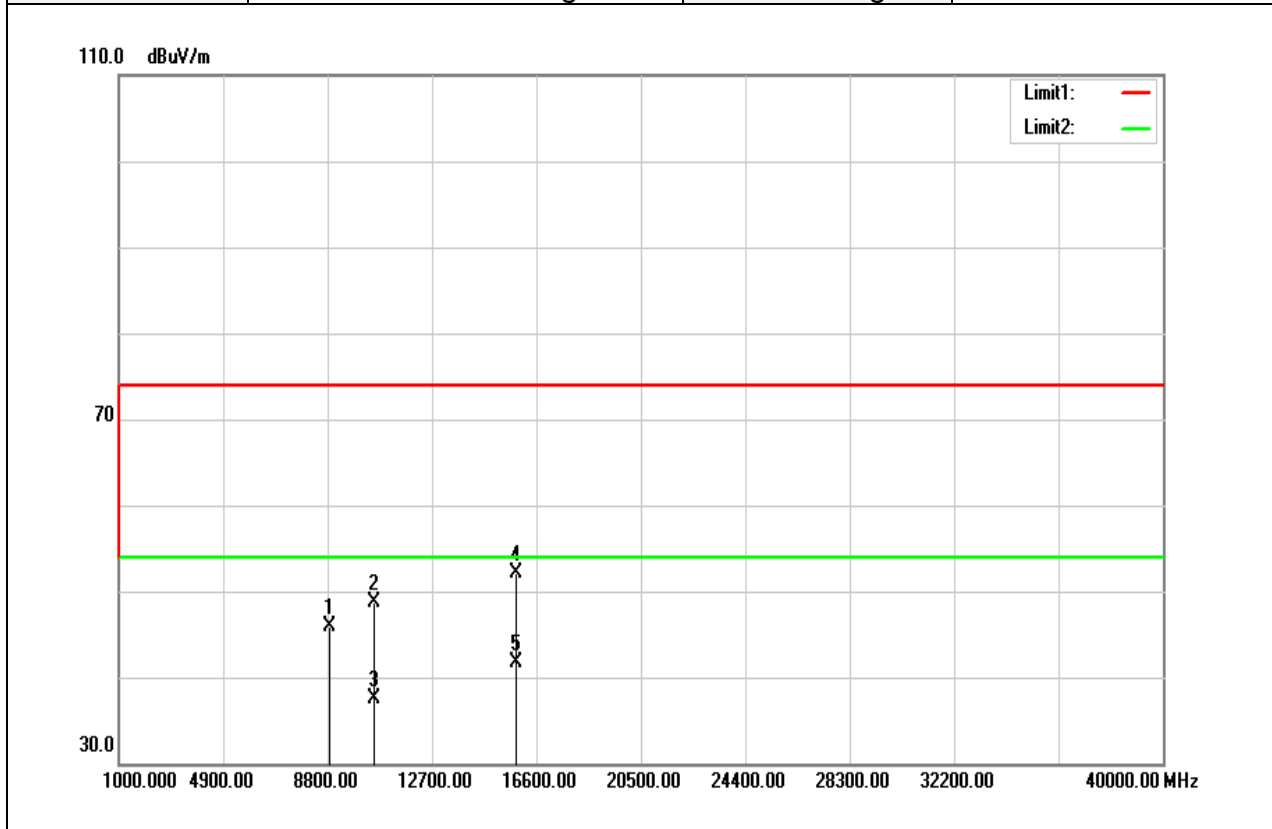


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8720.000	31.82	13.74	45.56	74.00	-28.44	peak
10560.000	32.29	17.11	49.40	74.00	-24.60	peak
10560.000	21.57	17.11	38.68	54.00	-15.32	AVG
15840.000	33.44	19.30	52.74	74.00	-21.26	peak
15840.000	22.22	19.30	41.52	54.00	-12.48	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

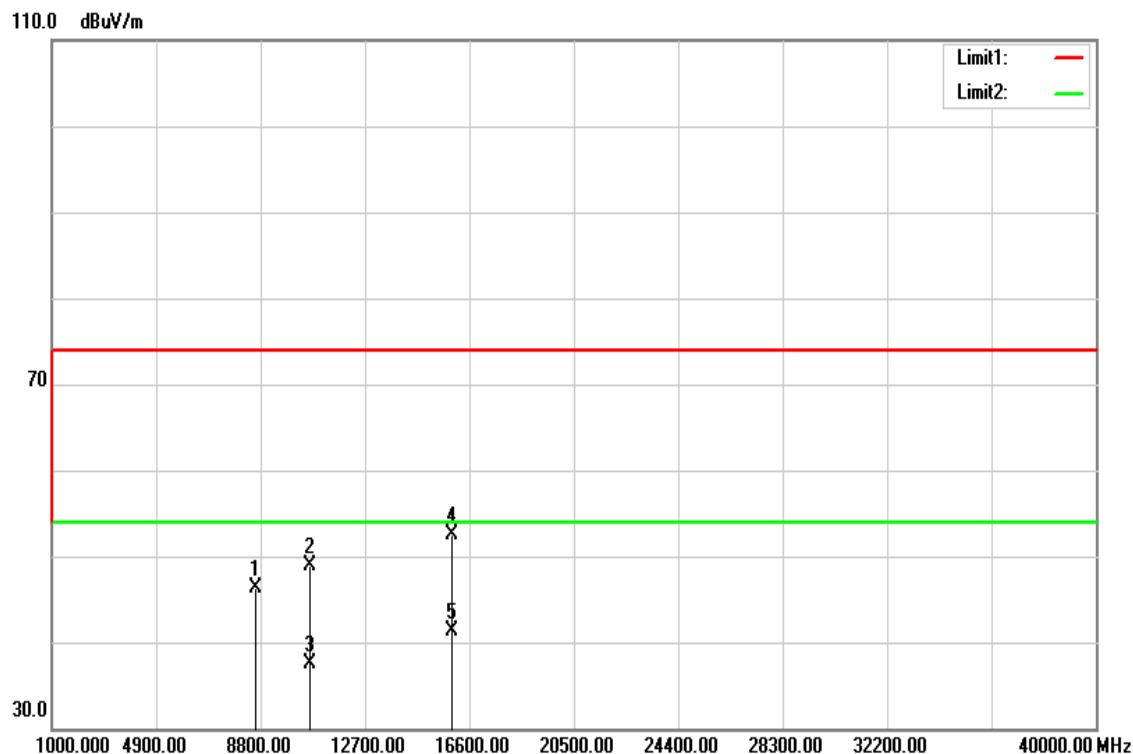


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8870.000	32.08	13.81	45.89	74.00	-28.11	peak
10560.000	31.57	17.11	48.68	74.00	-25.32	peak
10560.000	20.43	17.11	37.54	54.00	-16.46	AVG
15840.000	32.76	19.30	52.06	74.00	-21.94	peak
15840.000	22.47	19.30	41.77	54.00	-12.23	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

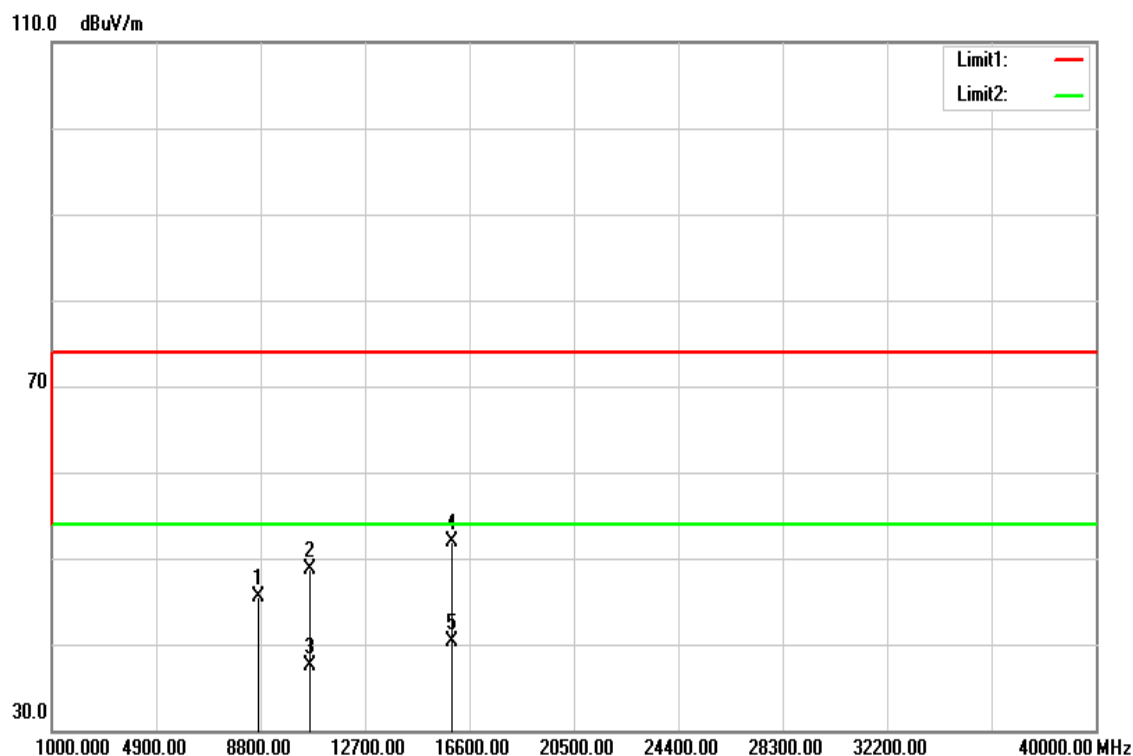


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	32.69	13.70	46.39	74.00	-27.61	peak
10640.000	31.87	17.04	48.91	74.00	-25.09	peak
10640.000	20.51	17.04	37.55	54.00	-16.45	AVG
15960.000	33.15	19.40	52.55	74.00	-21.45	peak
15960.000	21.98	19.40	41.38	54.00	-12.62	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

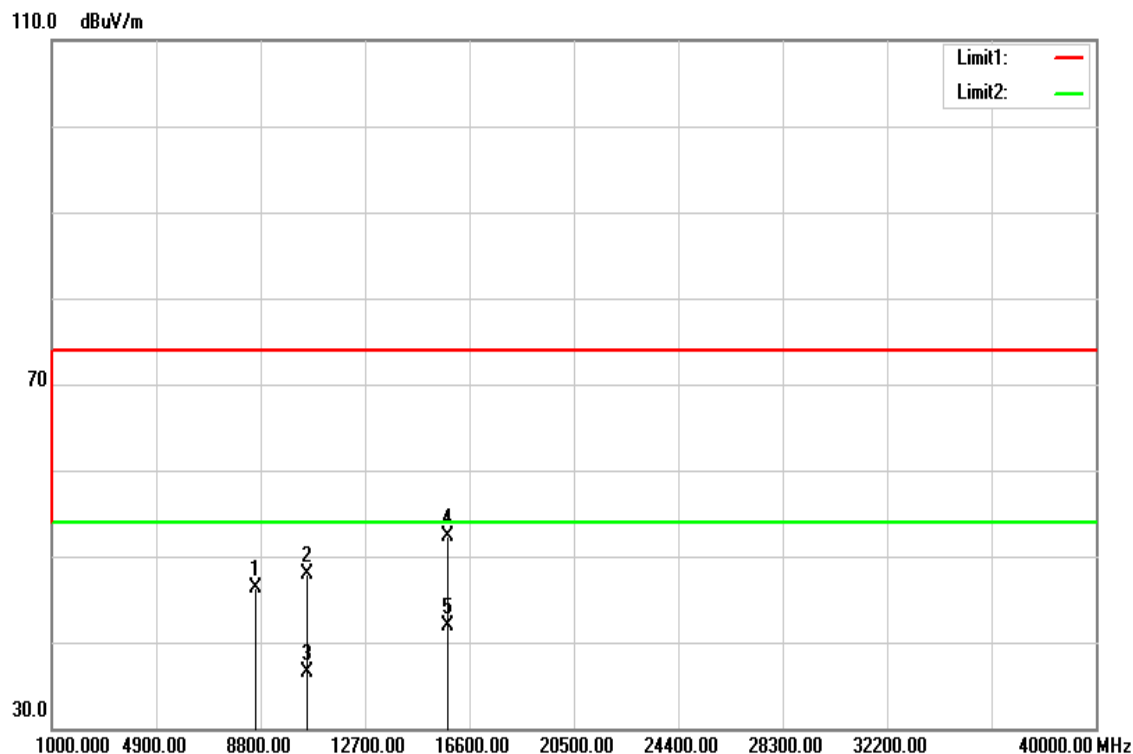


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	31.78	13.75	45.53	74.00	-28.47	peak
10640.000	31.65	17.04	48.69	74.00	-25.31	peak
10640.000	20.51	17.04	37.55	54.00	-16.45	AVG
15960.000	32.42	19.40	51.82	74.00	-22.18	peak
15960.000	20.98	19.40	40.38	54.00	-13.62	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



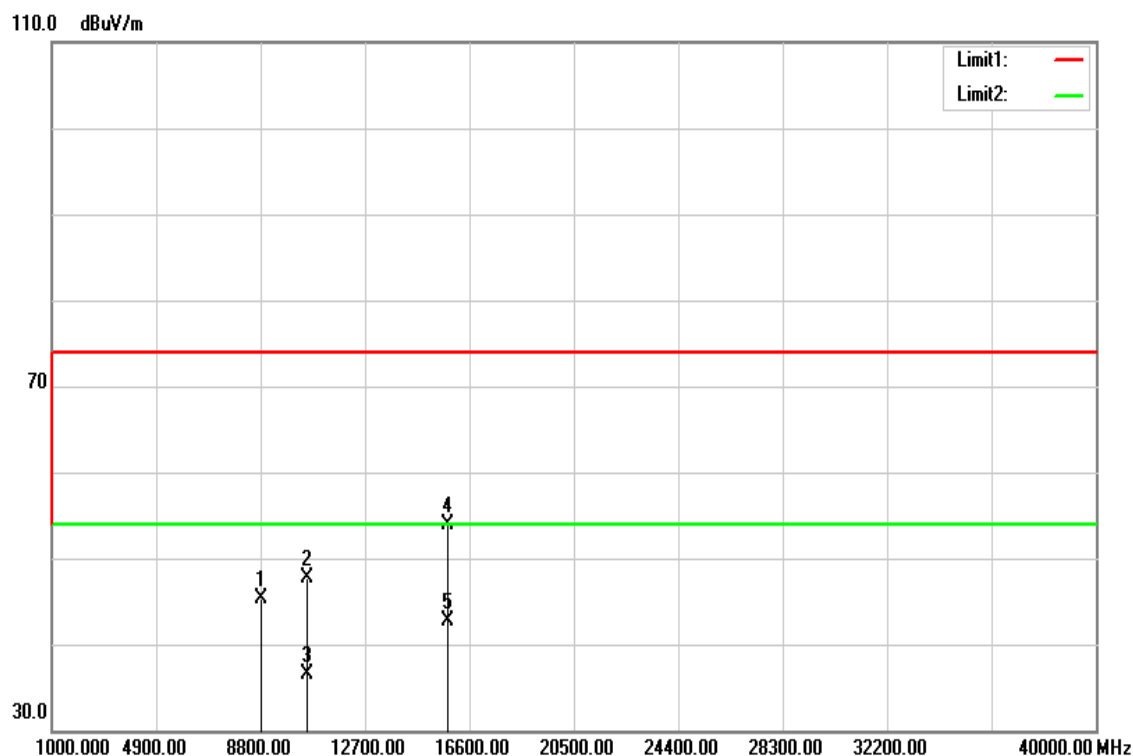
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	32.59	13.70	46.29	74.00	-27.71	peak
10540.000	30.69	17.13	47.82	74.00	-26.18	peak
10540.000	19.44	17.13	36.57	54.00	-17.43	AVG
15810.000	33.00	19.27	52.27	74.00	-21.73	peak
15810.000	22.59	19.27	41.86	54.00	-12.14	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

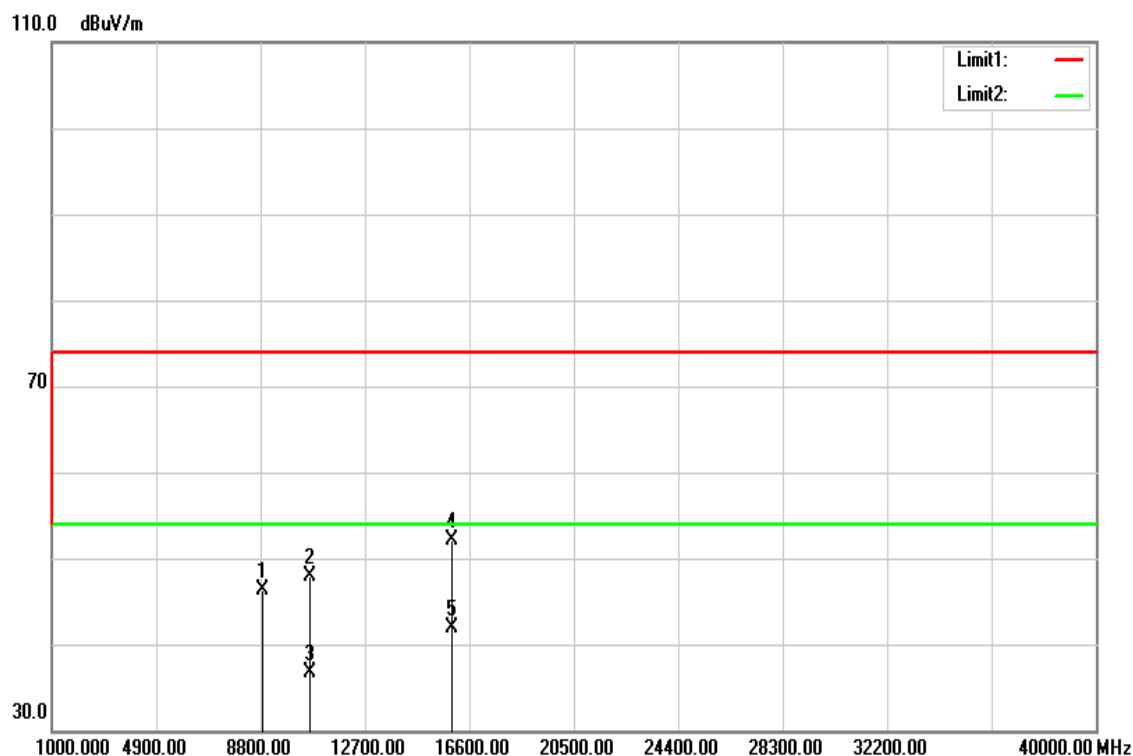


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	31.51	13.79	45.30	74.00	-28.70	peak
10540.000	30.65	17.13	47.78	74.00	-26.22	peak
10540.000	19.44	17.13	36.57	54.00	-17.43	AVG
15810.000	34.60	19.27	53.87	74.00	-20.13	peak
15810.000	23.36	19.27	42.63	54.00	-11.37	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

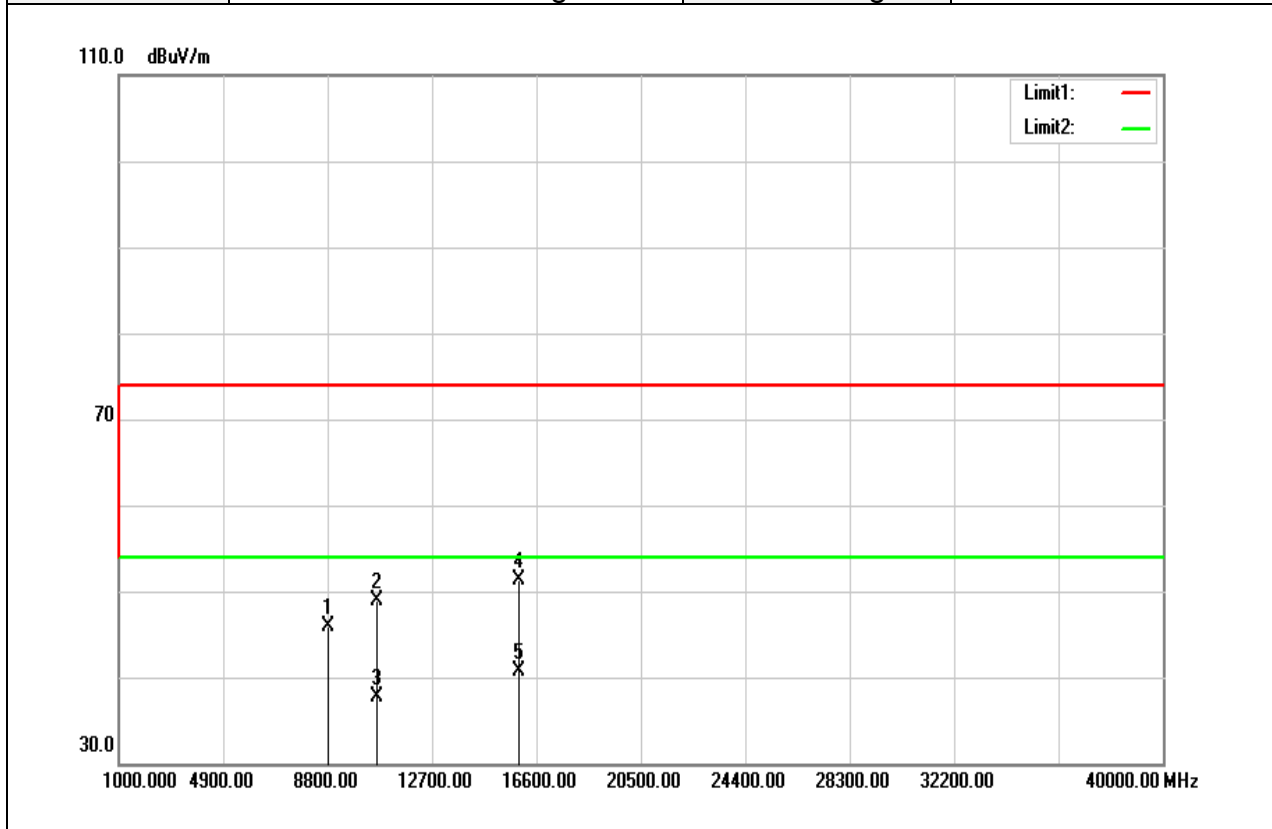


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8870.000	32.51	13.81	46.32	74.00	-27.68	peak
10620.000	30.82	17.06	47.88	74.00	-26.12	peak
10620.000	19.70	17.06	36.76	54.00	-17.24	AVG
15930.000	32.64	19.37	52.01	74.00	-21.99	peak
15930.000	22.49	19.37	41.86	54.00	-12.14	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

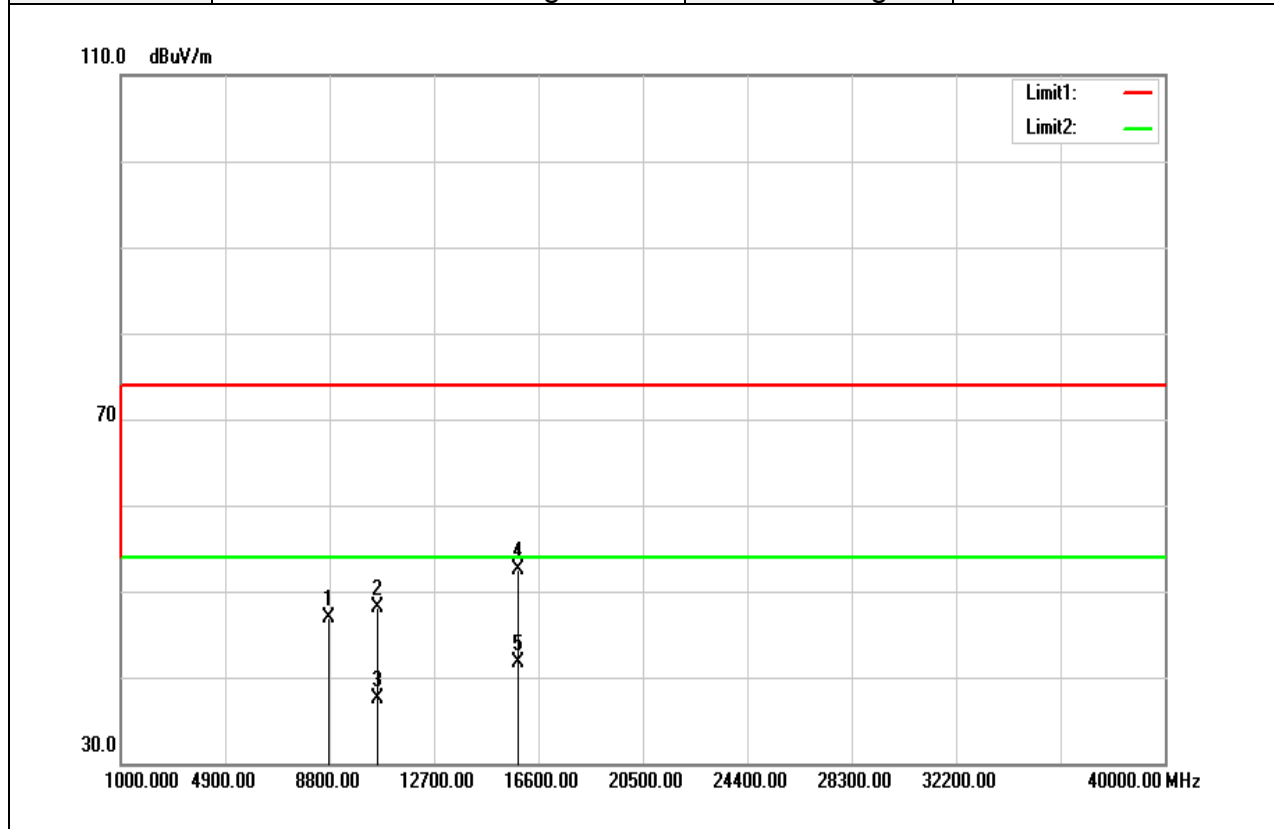


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	32.06	13.79	45.85	74.00	-28.15	peak
10620.000	31.76	17.06	48.82	74.00	-25.18	peak
10620.000	20.68	17.06	37.74	54.00	-16.26	AVG
15930.000	31.98	19.37	51.35	74.00	-22.65	peak
15930.000	21.31	19.37	40.68	54.00	-13.32	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

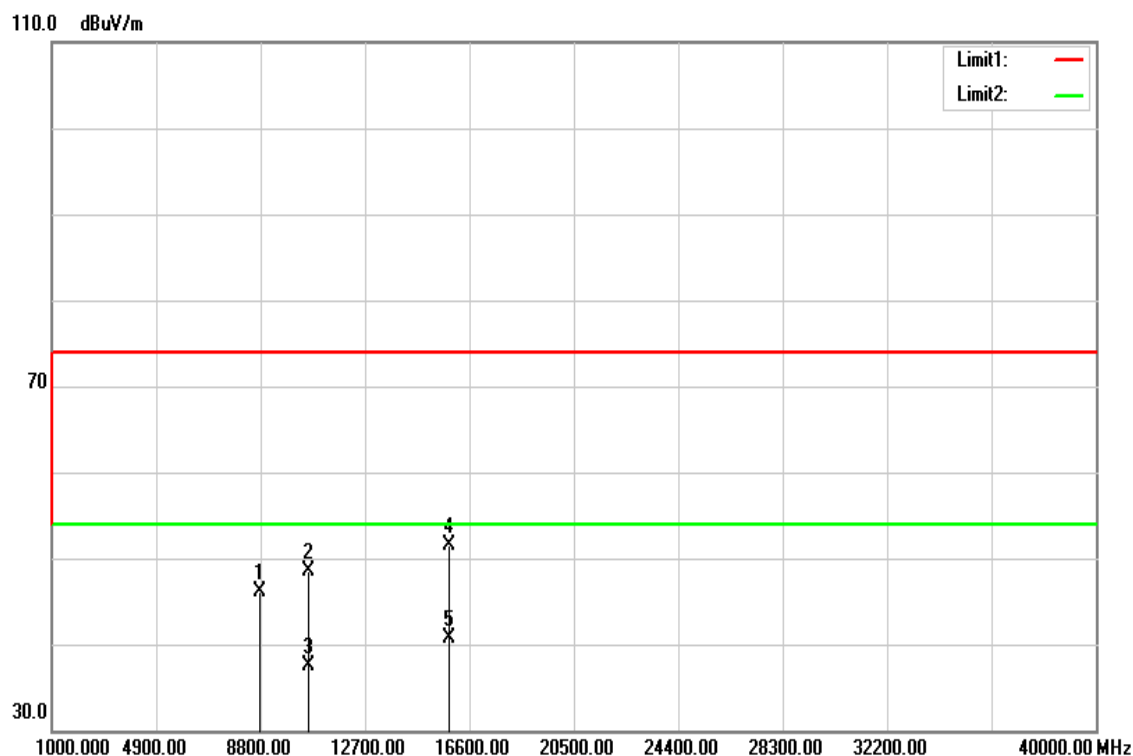


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8790.000	33.05	13.77	46.82	74.00	-27.18	peak
10580.000	30.92	17.09	48.01	74.00	-25.99	peak
10580.000	20.49	17.09	37.58	54.00	-16.42	AVG
15870.000	33.11	19.32	52.43	74.00	-21.57	peak
15870.000	22.47	19.32	41.79	54.00	-12.21	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



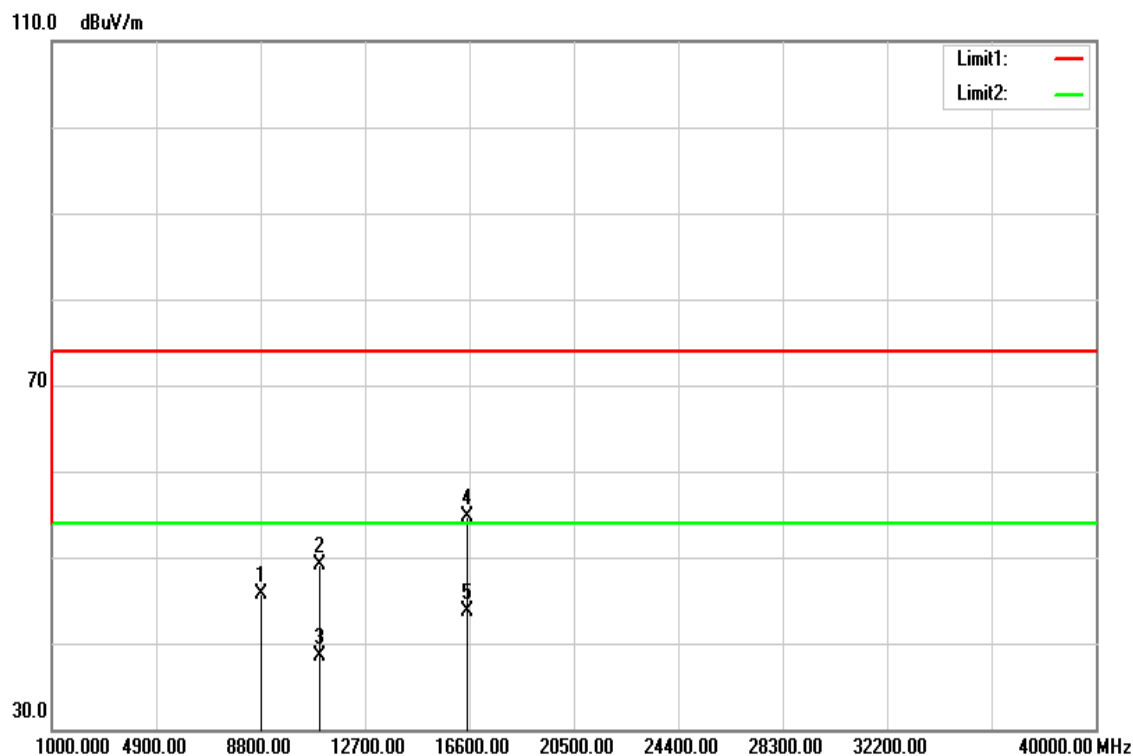
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8790.000	32.29	13.77	46.06	74.00	-27.94	peak
10580.000	31.33	17.09	48.42	74.00	-25.58	peak
10580.000	20.49	17.09	37.58	54.00	-16.42	AVG
15870.000	32.10	19.32	51.42	74.00	-22.58	peak
15870.000	21.34	19.32	40.66	54.00	-13.34	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

**Above 1G Test Data for UNII-2c**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

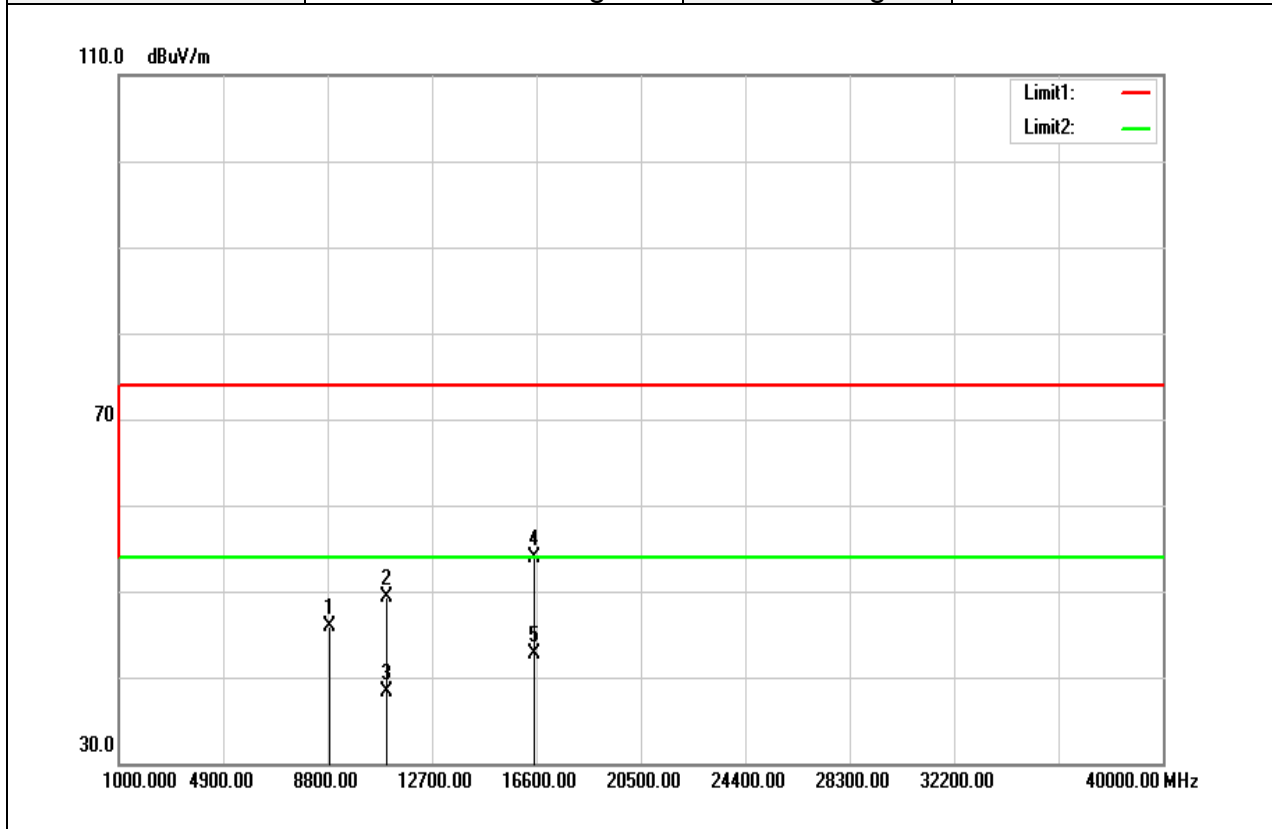


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	31.97	13.79	45.76	74.00	-28.24	peak
11000.000	32.33	16.73	49.06	74.00	-24.94	peak
11000.000	21.82	16.73	38.55	54.00	-15.45	AVG
16500.000	33.34	21.39	54.73	74.00	-19.27	peak
16500.000	22.30	21.39	43.69	54.00	-10.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

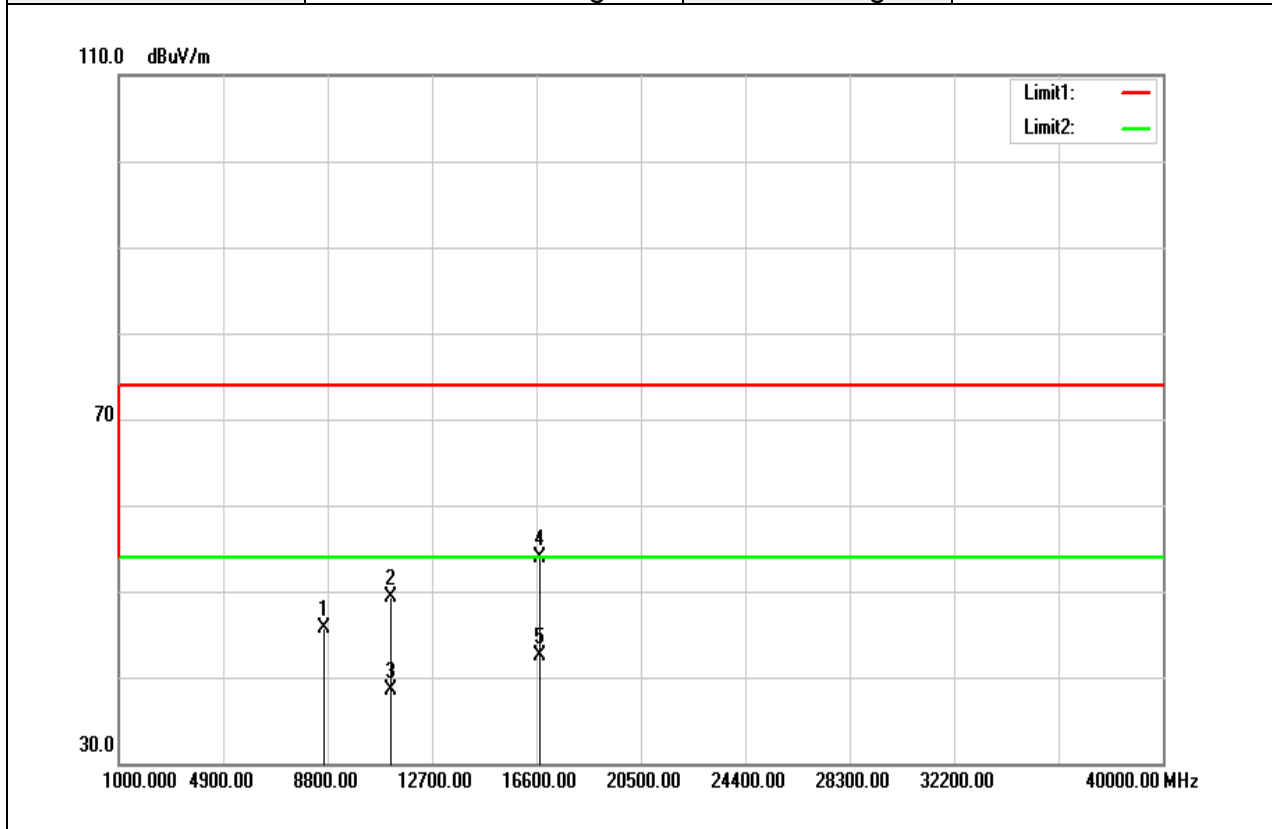


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8860.000	32.08	13.81	45.89	74.00	-28.11	peak
11000.000	32.54	16.73	49.27	74.00	-24.73	peak
11000.000	21.61	16.73	38.34	54.00	-15.66	AVG
16500.000	32.55	21.39	53.94	74.00	-20.06	peak
16500.000	21.28	21.39	42.67	54.00	-11.33	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



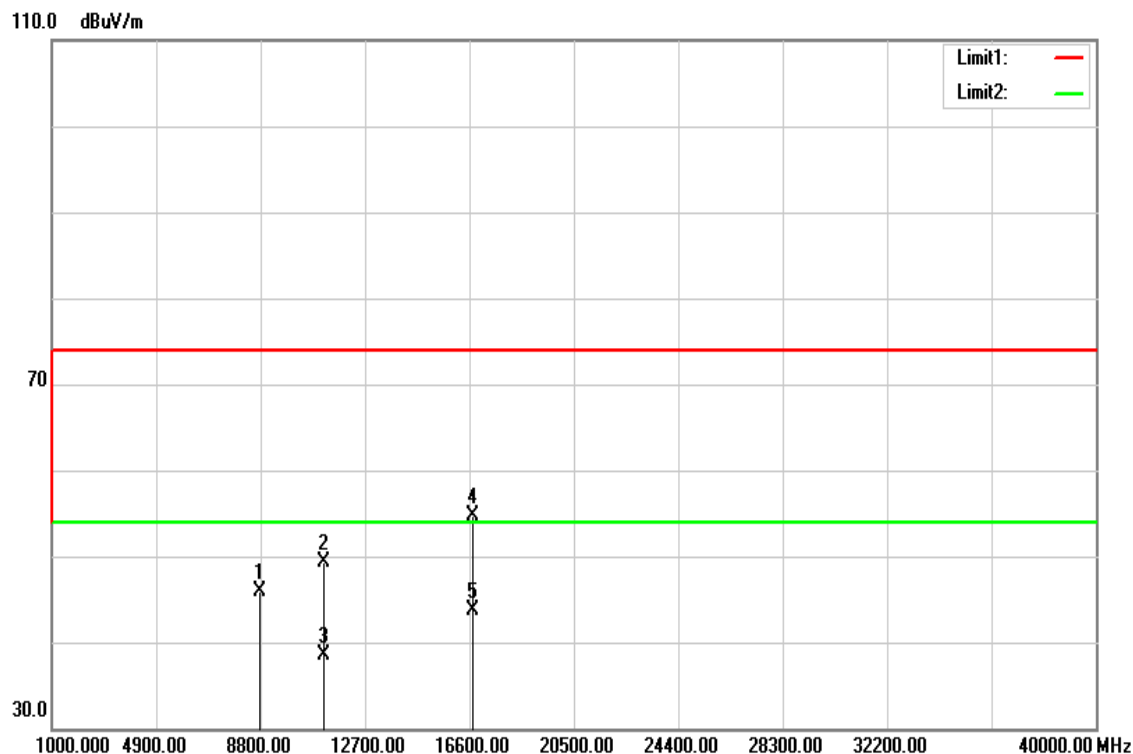
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	32.02	13.71	45.73	74.00	-28.27	peak
11160.000	32.62	16.75	49.37	74.00	-24.63	peak
11160.000	21.68	16.75	38.43	54.00	-15.57	AVG
16740.000	31.08	22.82	53.90	74.00	-20.10	peak
16740.000	19.77	22.82	42.59	54.00	-11.41	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

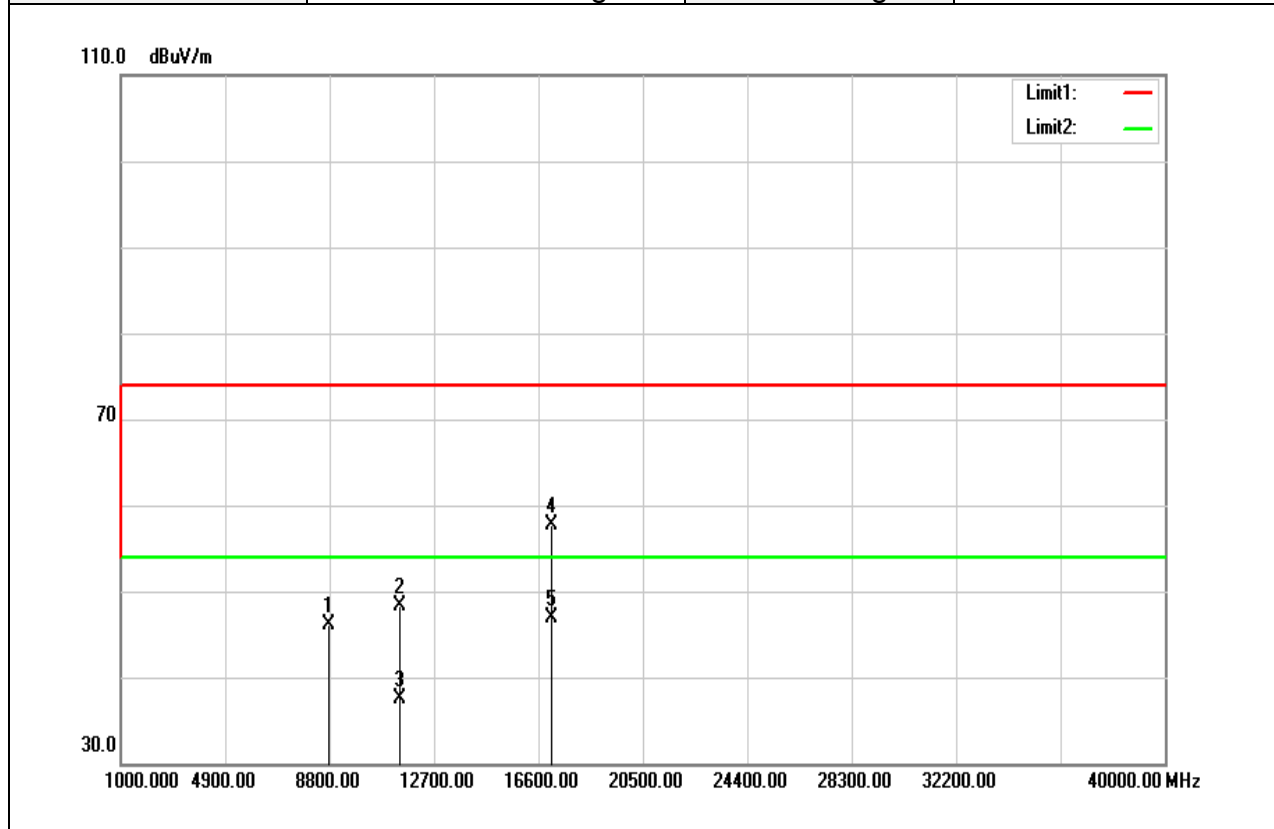


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.24	13.75	45.99	74.00	-28.01	peak
11160.000	32.65	16.75	49.40	74.00	-24.60	peak
11160.000	21.83	16.75	38.58	54.00	-15.42	AVG
16740.000	31.91	22.82	54.73	74.00	-19.27	peak
16740.000	20.79	22.82	43.61	54.00	-10.39	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

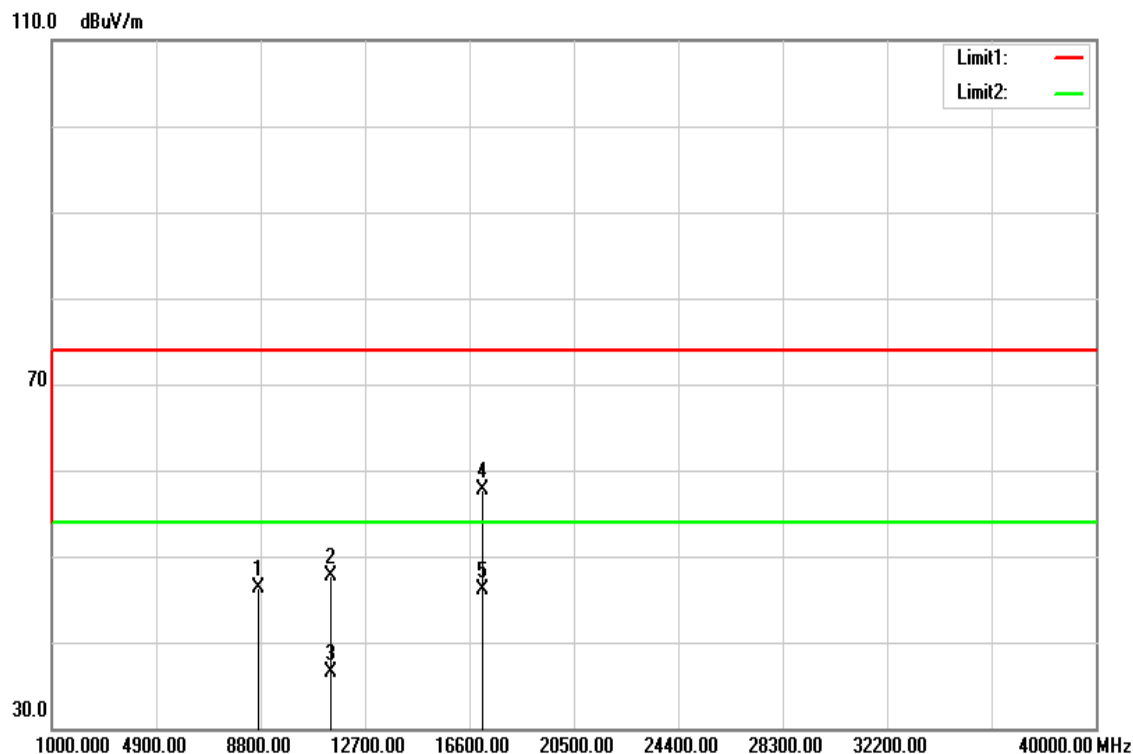


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.34	13.75	46.09	74.00	-27.91	peak
11400.000	31.49	16.77	48.26	74.00	-25.74	peak
11400.000	20.78	16.77	37.55	54.00	-16.45	AVG
17100.000	32.95	24.75	57.70	74.00	-16.30	peak
17100.000	22.08	24.75	46.83	54.00	-7.17	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

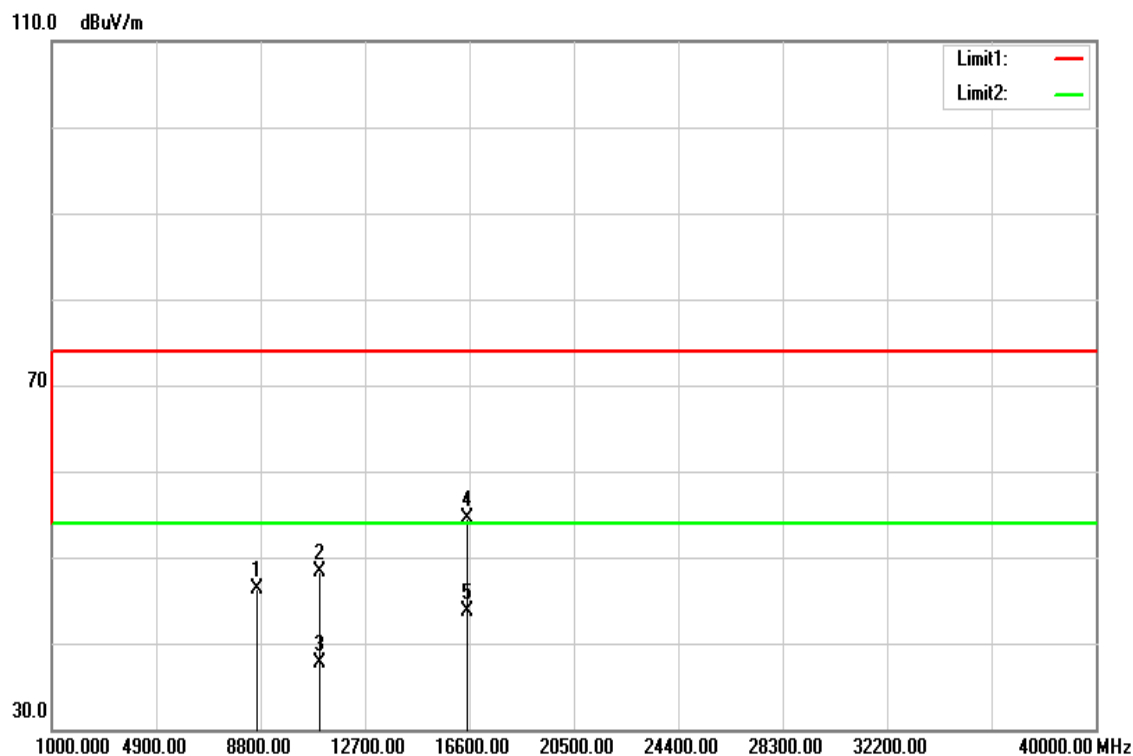


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8740.000	32.54	13.75	46.29	74.00	-27.71	peak
11400.000	30.99	16.77	47.76	74.00	-26.24	peak
11400.000	19.75	16.77	36.52	54.00	-17.48	AVG
17100.000	32.96	24.75	57.71	74.00	-16.29	peak
17100.000	21.43	24.75	46.18	54.00	-7.82	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

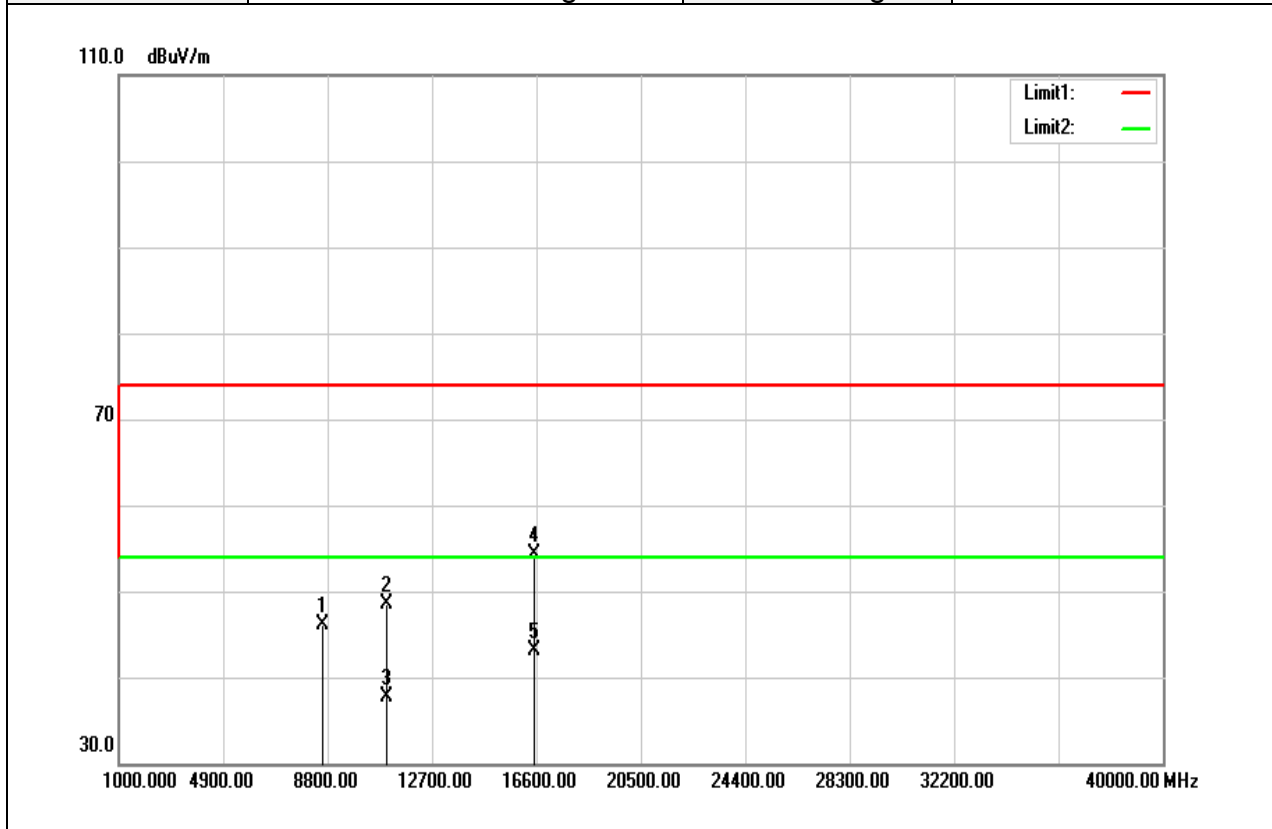


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	32.47	13.73	46.20	74.00	-27.80	peak
11000.000	31.57	16.73	48.30	74.00	-25.70	peak
11000.000	21.01	16.73	37.74	54.00	-16.26	AVG
16500.000	33.14	21.39	54.53	74.00	-19.47	peak
16500.000	22.27	21.39	43.66	54.00	-10.34	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

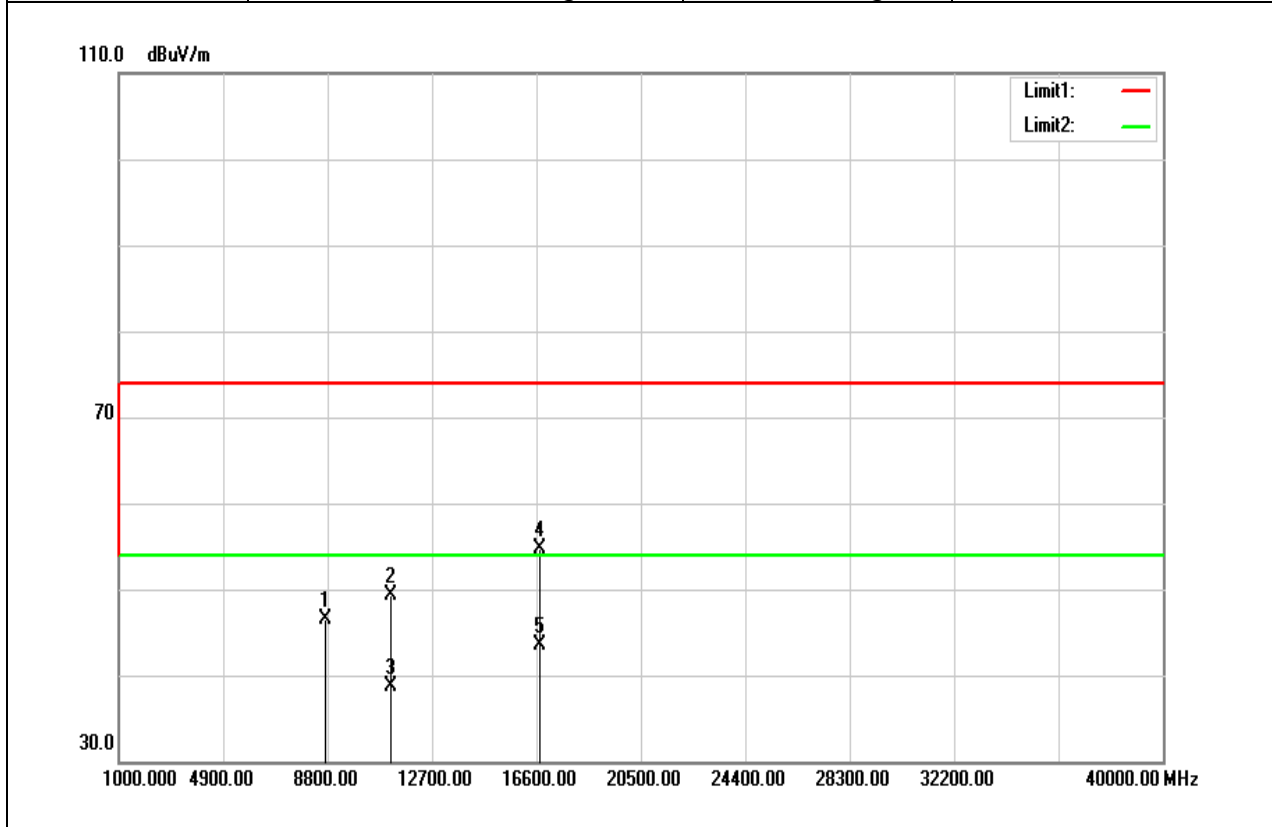


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8610.000	32.39	13.69	46.08	74.00	-27.92	peak
11000.000	31.75	16.73	48.48	74.00	-25.52	peak
11000.000	20.91	16.73	37.64	54.00	-16.36	AVG
16500.000	32.83	21.39	54.22	74.00	-19.78	peak
16500.000	21.80	21.39	43.19	54.00	-10.81	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

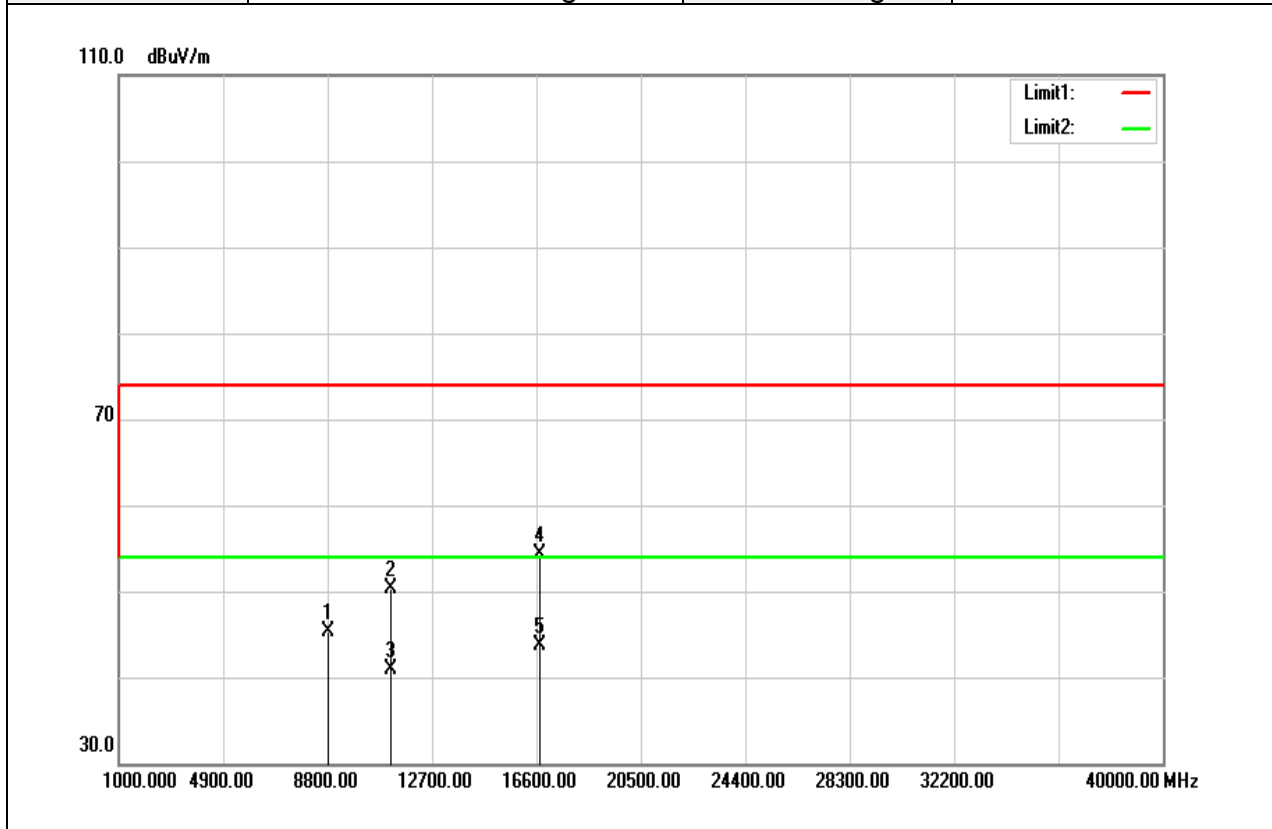


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8710.000	32.77	13.74	46.51	74.00	-27.49	peak
11160.000	32.61	16.75	49.36	74.00	-24.64	peak
11160.000	21.96	16.75	38.71	54.00	-15.29	AVG
16740.000	31.87	22.82	54.69	74.00	-19.31	peak
16740.000	20.77	22.82	43.59	54.00	-10.41	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

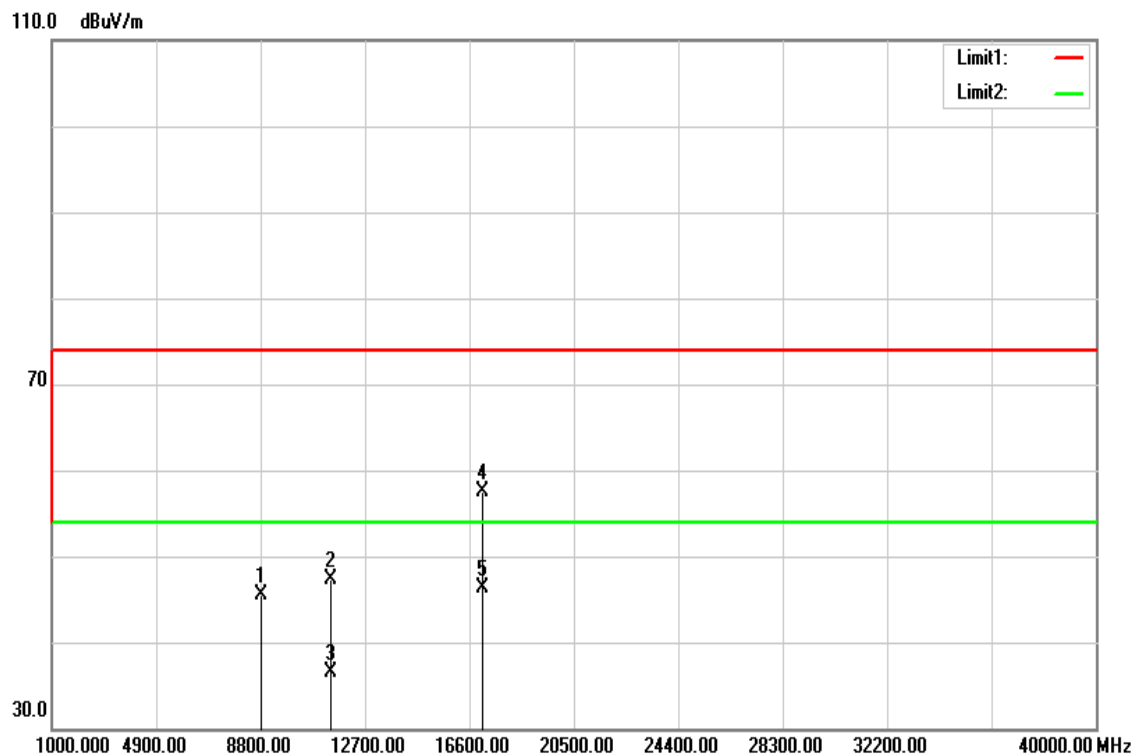


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8830.000	31.49	13.79	45.28	74.00	-28.72	peak
11160.000	33.63	16.75	50.38	74.00	-23.62	peak
11160.000	24.14	16.75	40.89	54.00	-13.11	AVG
16740.000	31.42	22.82	54.24	74.00	-19.76	peak
16740.000	20.94	22.82	43.76	54.00	-10.24	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



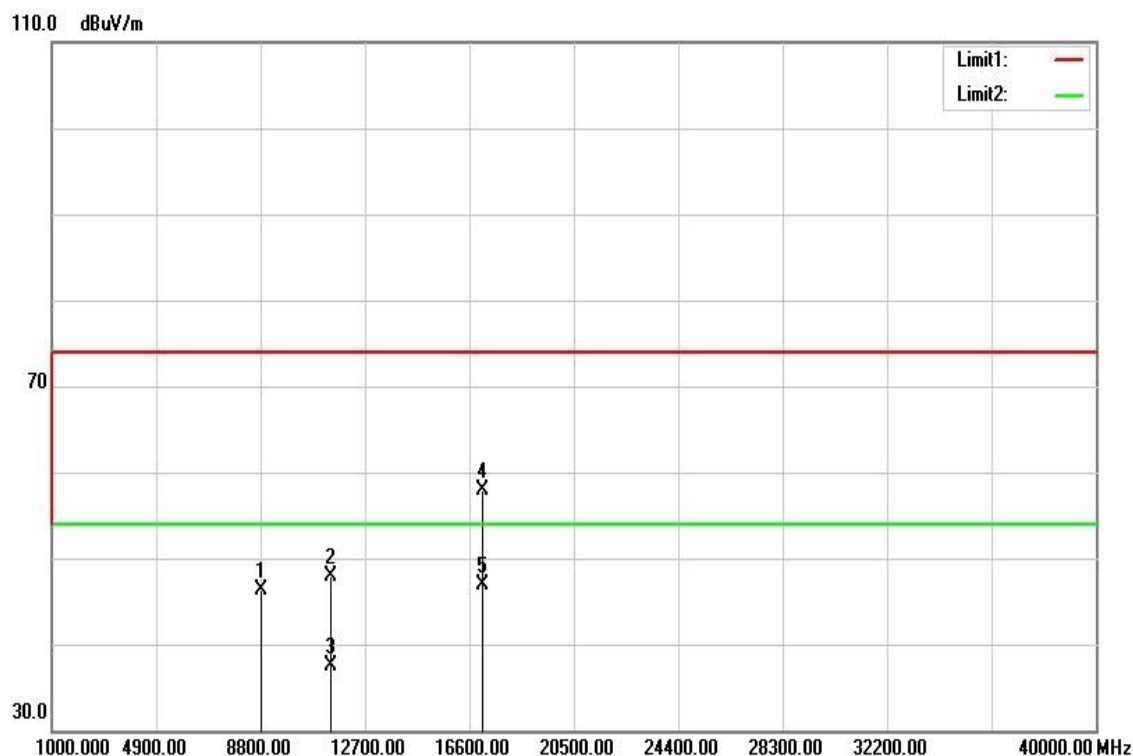
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8820.000	31.80	13.79	45.59	74.00	-28.41	peak
11400.000	30.59	16.77	47.36	74.00	-26.64	peak
11400.000	19.70	16.77	36.47	54.00	-17.53	AVG
17100.000	32.82	24.75	57.57	74.00	-16.43	peak
17100.000	21.54	24.75	46.29	54.00	-7.71	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

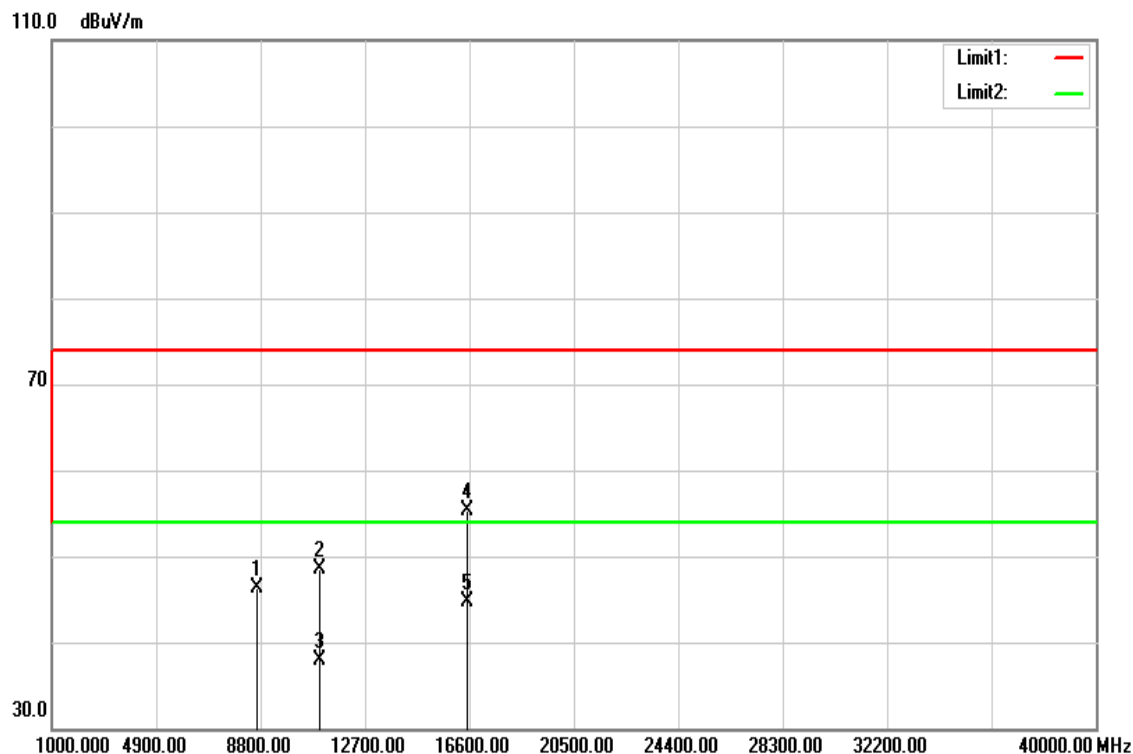


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8830.000	32.55	13.79	46.34	74.00	-27.66	peak
11400.000	31.23	16.77	48.00	74.00	-26.00	peak
11400.000	20.82	16.77	37.59	54.00	-16.41	AVG
17100.000	33.20	24.75	57.95	74.00	-16.05	peak
17100.000	22.08	24.75	46.83	54.00	-7.17	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

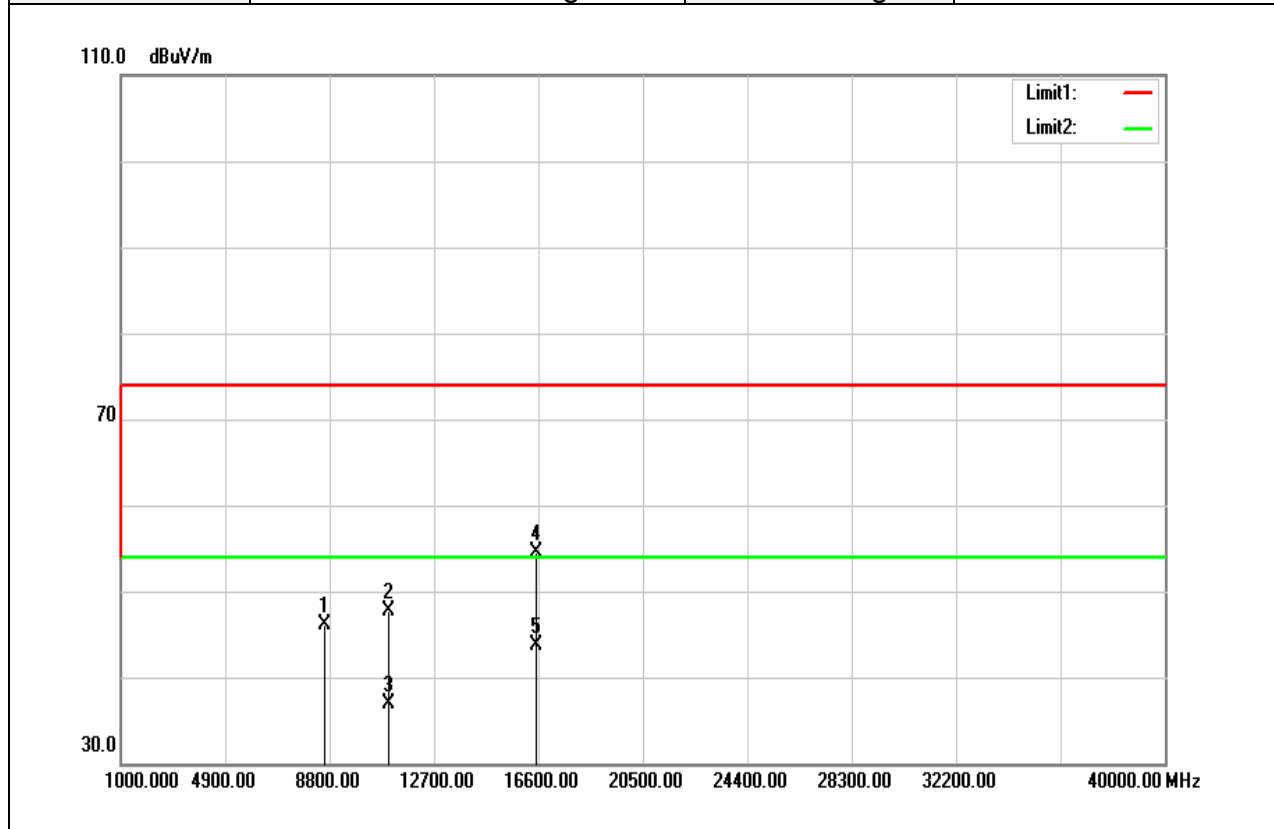


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	32.60	13.72	46.32	74.00	-27.68	peak
11020.000	31.75	16.73	48.48	74.00	-25.52	peak
11020.000	21.16	16.73	37.89	54.00	-16.11	AVG
16530.000	33.66	21.57	55.23	74.00	-18.77	peak
16530.000	23.10	21.57	44.67	54.00	-9.33	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

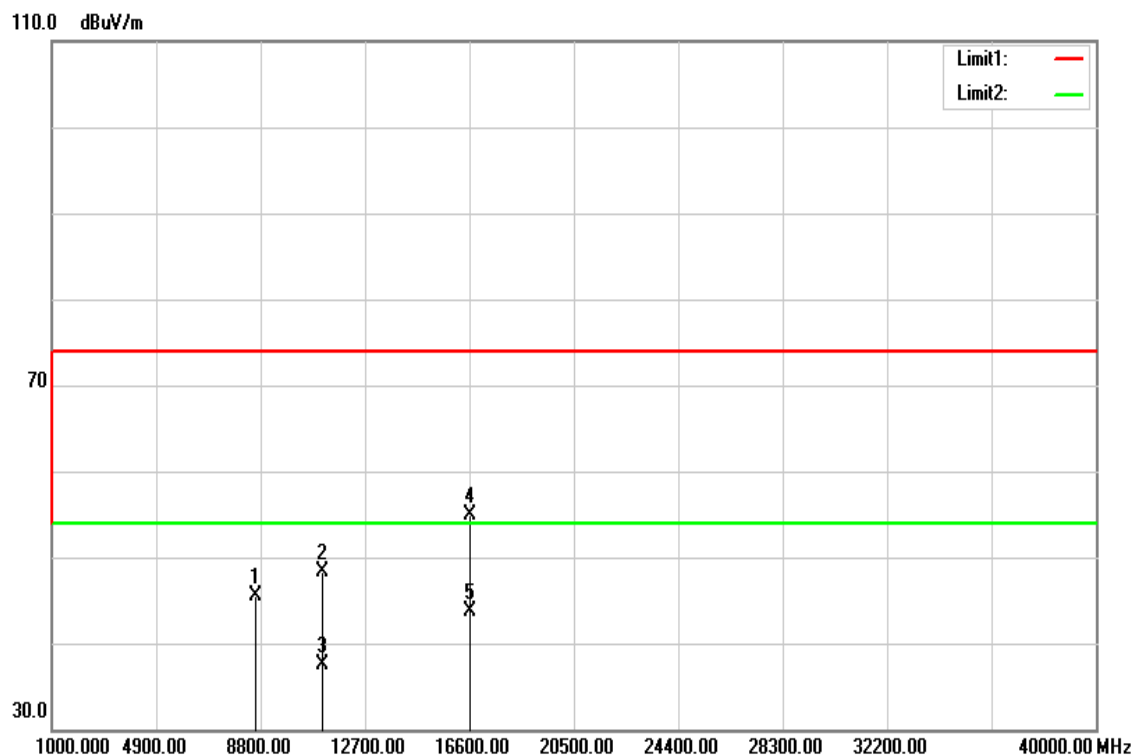


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	32.49	13.70	46.19	74.00	-27.81	peak
11020.000	30.99	16.73	47.72	74.00	-26.28	peak
11020.000	20.21	16.73	36.94	54.00	-17.06	AVG
16530.000	32.94	21.57	54.51	74.00	-19.49	peak
16530.000	22.20	21.57	43.77	54.00	-10.23	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

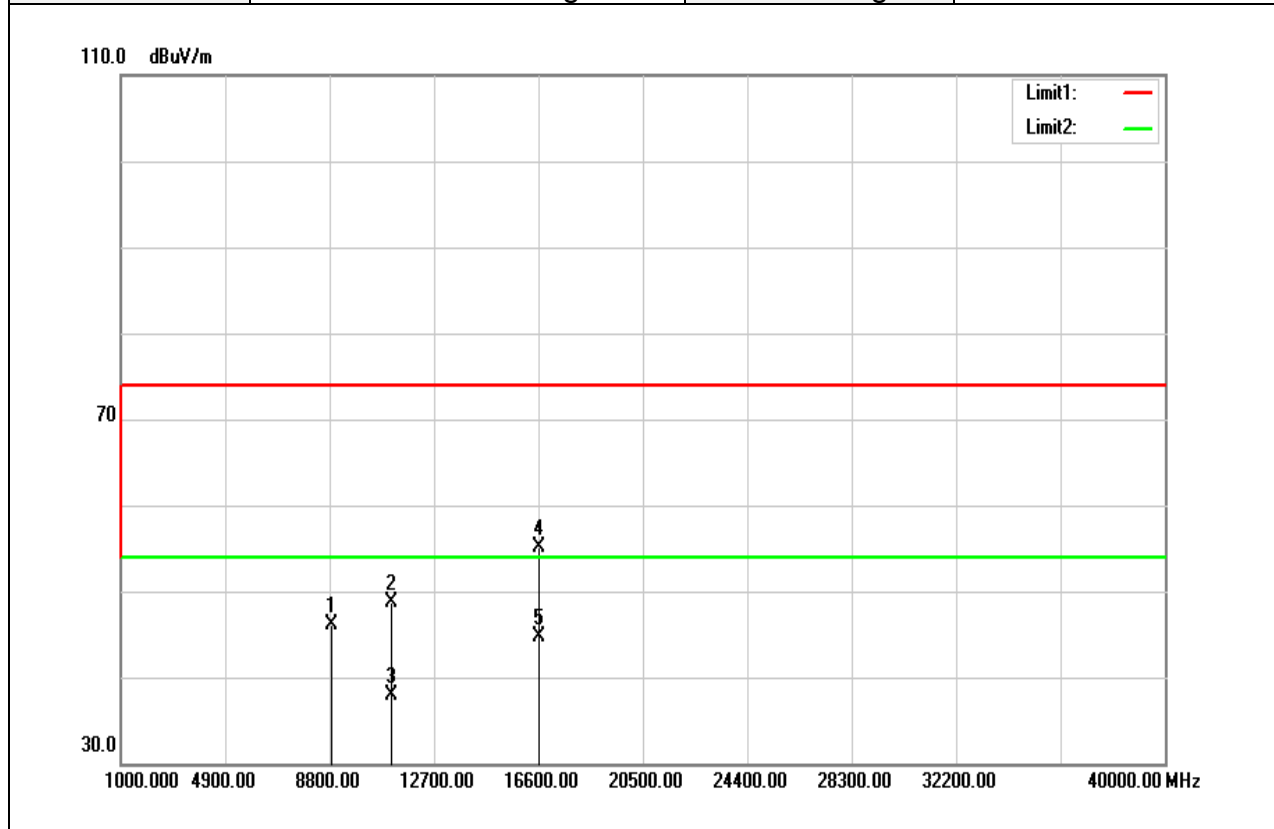


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	31.86	13.70	45.56	74.00	-28.44	peak
11100.000	31.53	16.74	48.27	74.00	-25.73	peak
11100.000	20.84	16.74	37.58	54.00	-16.42	AVG
16650.000	32.70	22.28	54.98	74.00	-19.02	peak
16650.000	21.51	22.28	43.79	54.00	-10.21	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

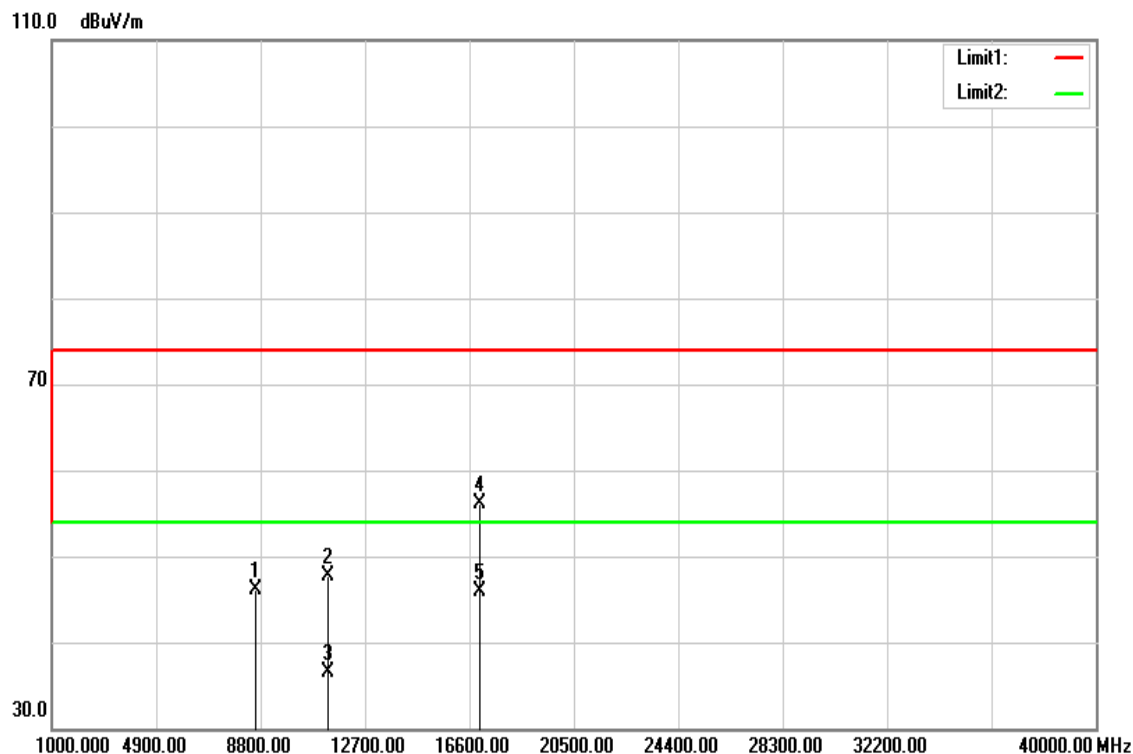


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8890.000	32.32	13.82	46.14	74.00	-27.86	peak
11100.000	31.91	16.74	48.65	74.00	-25.35	peak
11100.000	21.13	16.74	37.87	54.00	-16.13	AVG
16650.000	32.76	22.28	55.04	74.00	-18.96	peak
16650.000	22.41	22.28	44.69	54.00	-9.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

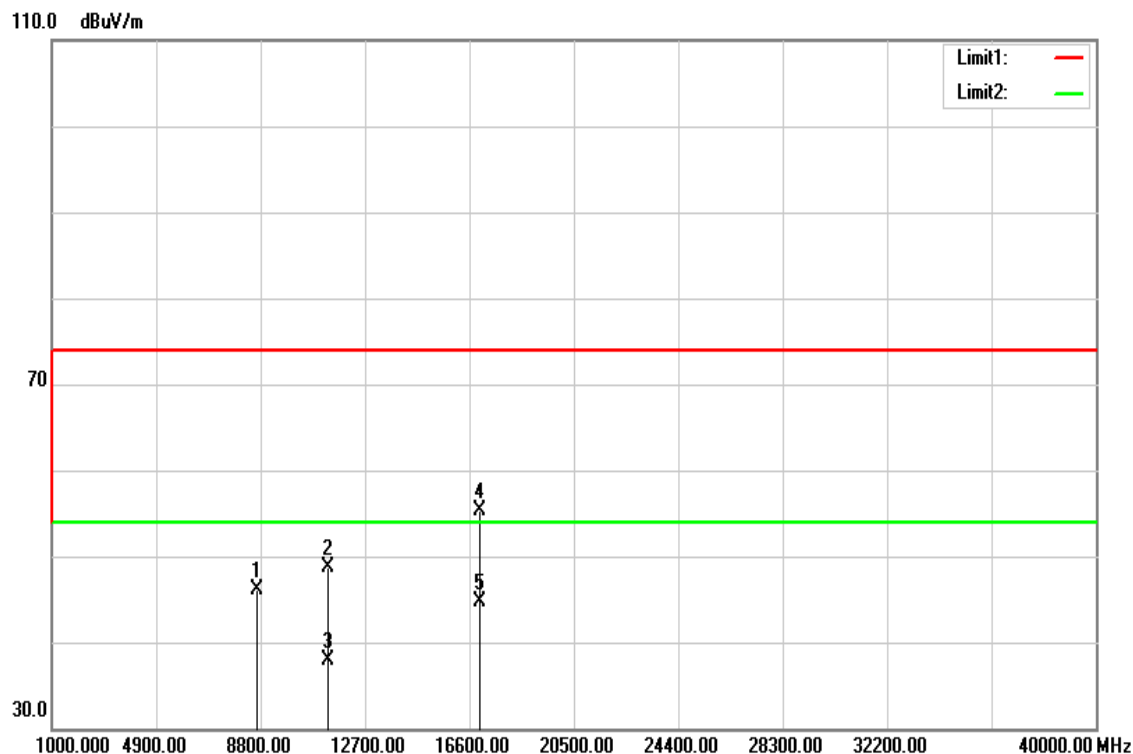


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8640.000	32.45	13.70	46.15	74.00	-27.85	peak
11340.000	30.96	16.76	47.72	74.00	-26.28	peak
11340.000	19.72	16.76	36.48	54.00	-17.52	AVG
17010.000	31.78	24.40	56.18	74.00	-17.82	peak
17010.000	21.52	24.40	45.92	54.00	-8.08	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

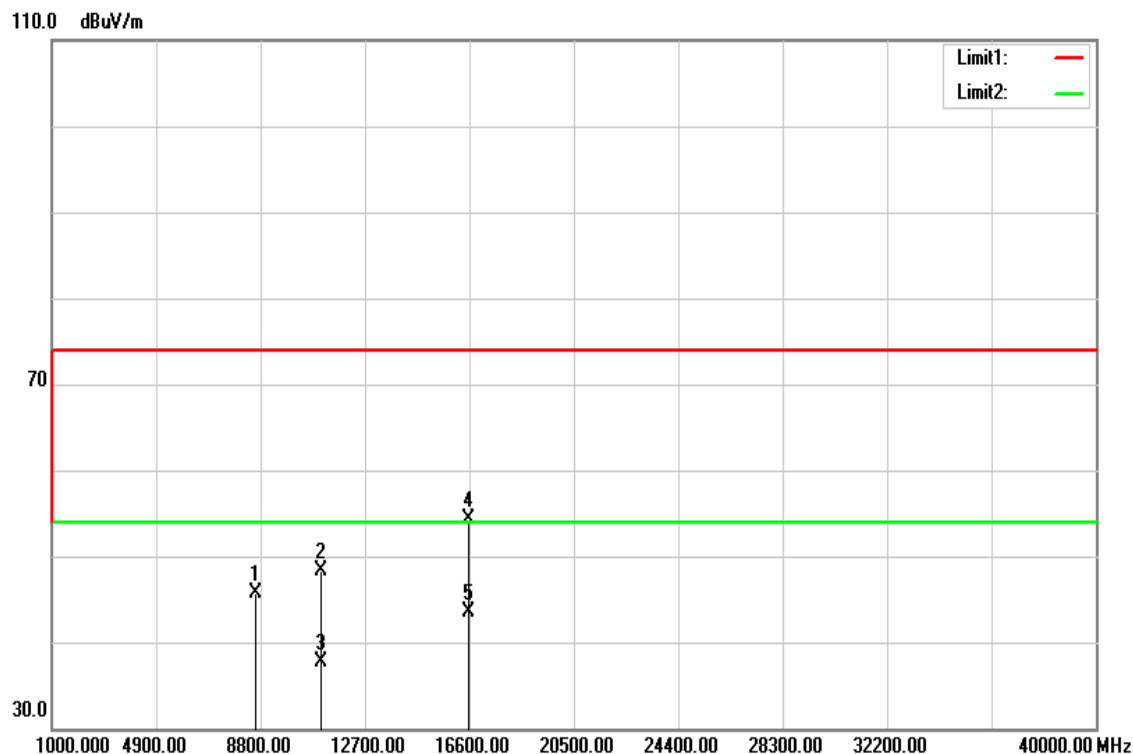


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	32.29	13.72	46.01	74.00	-27.99	peak
11340.000	31.92	16.76	48.68	74.00	-25.32	peak
11340.000	21.11	16.76	37.87	54.00	-16.13	AVG
17010.000	30.81	24.40	55.21	74.00	-18.79	peak
17010.000	20.29	24.40	44.69	54.00	-9.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



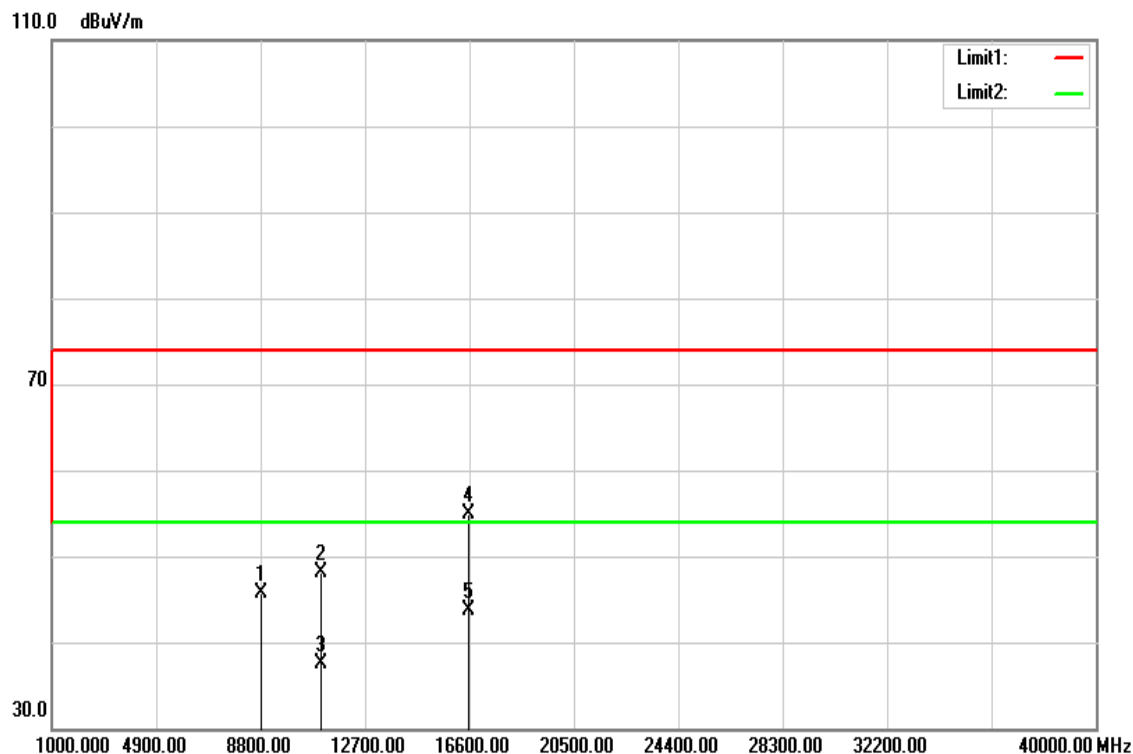
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8630.000	31.96	13.70	45.66	74.00	-28.34	peak
11060.000	31.66	16.74	48.40	74.00	-25.60	peak
11060.000	21.03	16.74	37.77	54.00	-16.23	AVG
16590.000	32.46	21.92	54.38	74.00	-19.62	peak
16590.000	21.62	21.92	43.54	54.00	-10.46	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



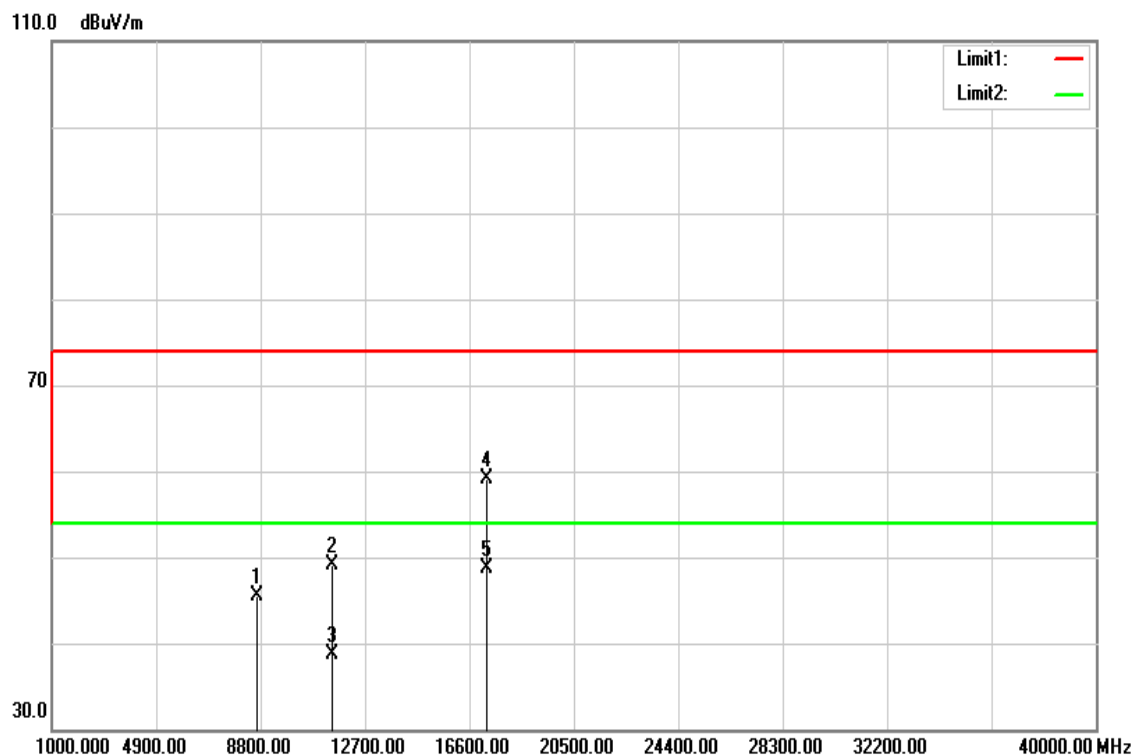
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8840.000	31.89	13.80	45.69	74.00	-28.31	peak
11060.000	31.37	16.74	48.11	74.00	-25.89	peak
11060.000	20.73	16.74	37.47	54.00	-16.53	AVG
16590.000	32.96	21.92	54.88	74.00	-19.12	peak
16590.000	21.69	21.92	43.61	54.00	-10.39	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

**Above 1G Test Data for UNII-3**

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

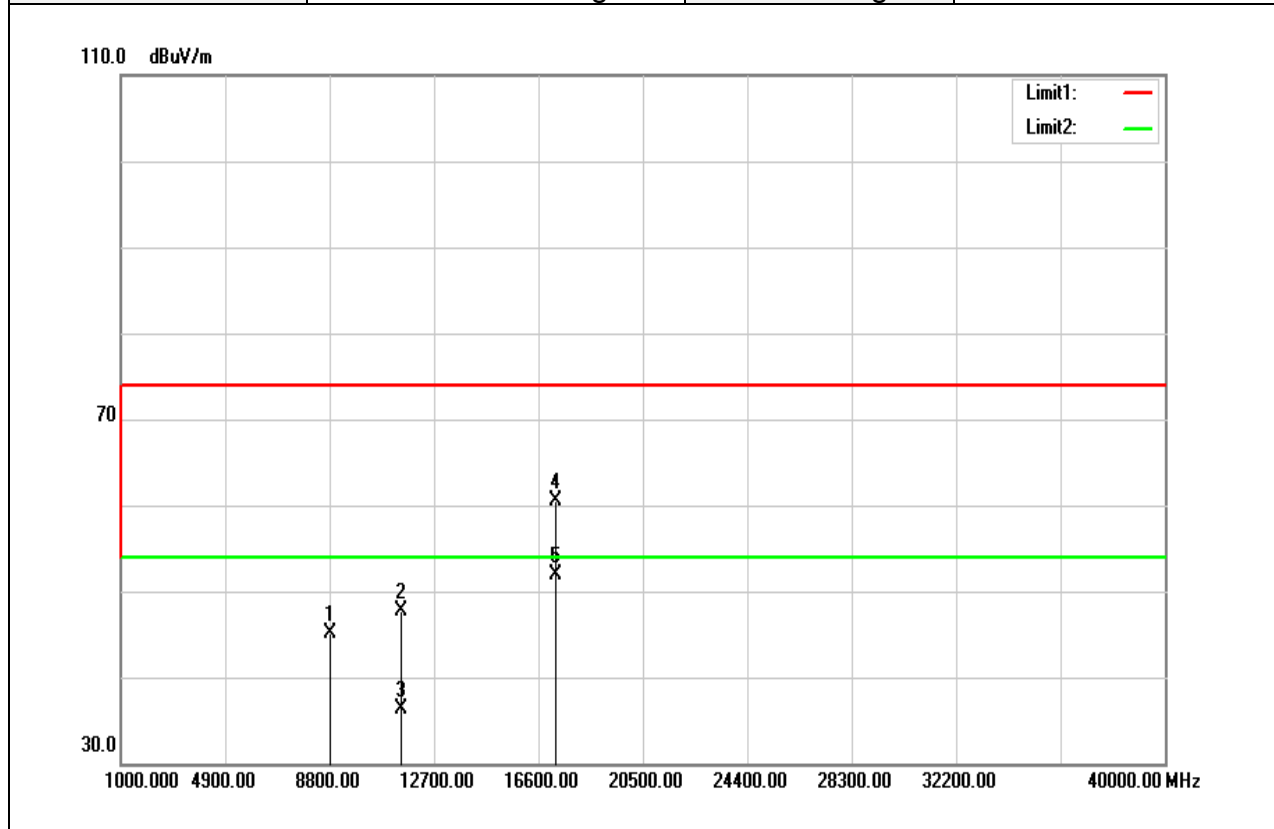


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8650.000	31.80	13.71	45.51	74.00	-28.49	peak
11490.000	32.26	16.78	49.04	74.00	-24.96	peak
11490.000	21.88	16.78	38.66	54.00	-15.34	AVG
17235.000	33.83	25.28	59.11	74.00	-14.89	peak
17235.000	23.51	25.28	48.79	54.00	-5.21	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

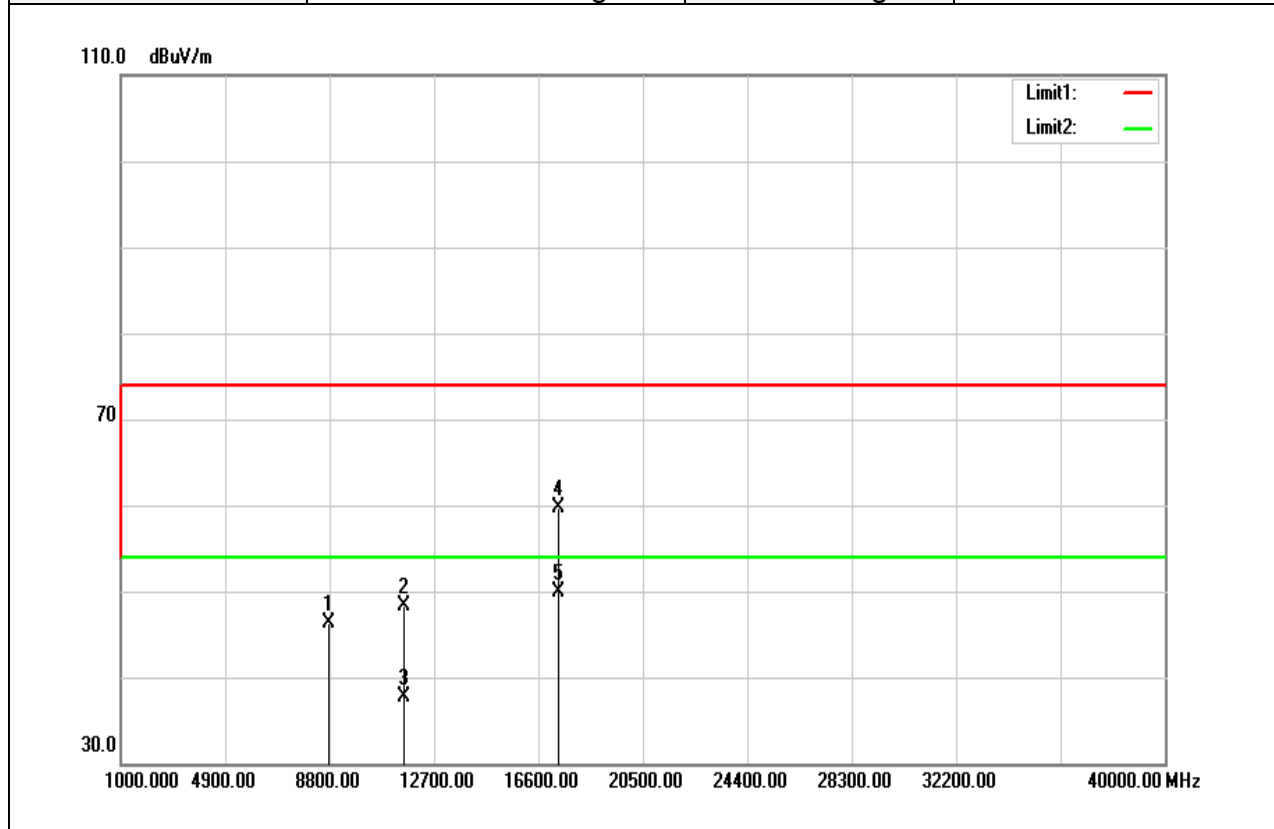


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8840.000	31.35	13.80	45.15	74.00	-28.85	peak
11490.000	30.88	16.78	47.66	74.00	-26.34	peak
11490.000	19.46	16.78	36.24	54.00	-17.76	AVG
17235.000	35.15	25.28	60.43	74.00	-13.57	peak
17235.000	26.69	25.28	51.97	54.00	-2.03	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

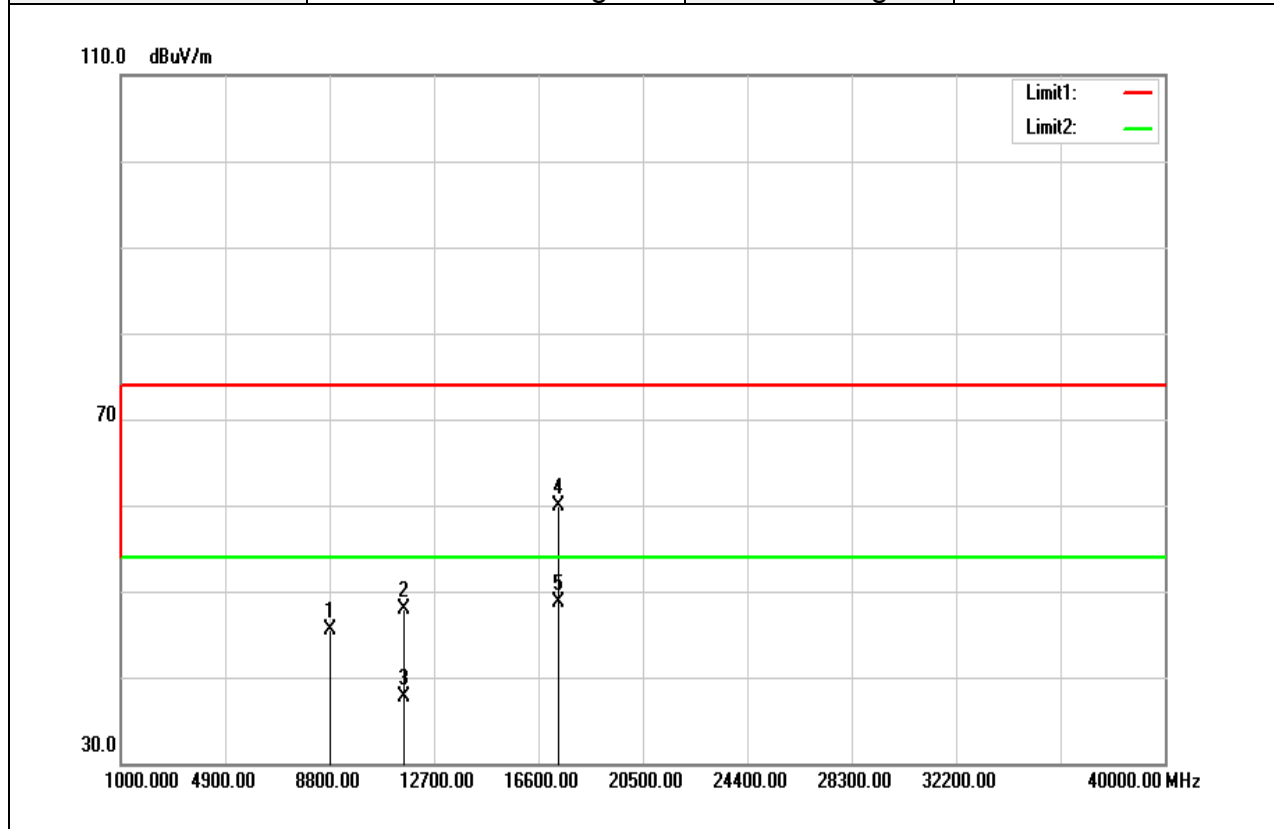


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.55	13.75	46.30	74.00	-27.70	peak
11570.000	31.39	16.84	48.23	74.00	-25.77	peak
11570.000	20.80	16.84	37.64	54.00	-16.36	AVG
17355.000	33.88	25.75	59.63	74.00	-14.37	peak
17355.000	24.12	25.75	49.87	54.00	-4.13	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

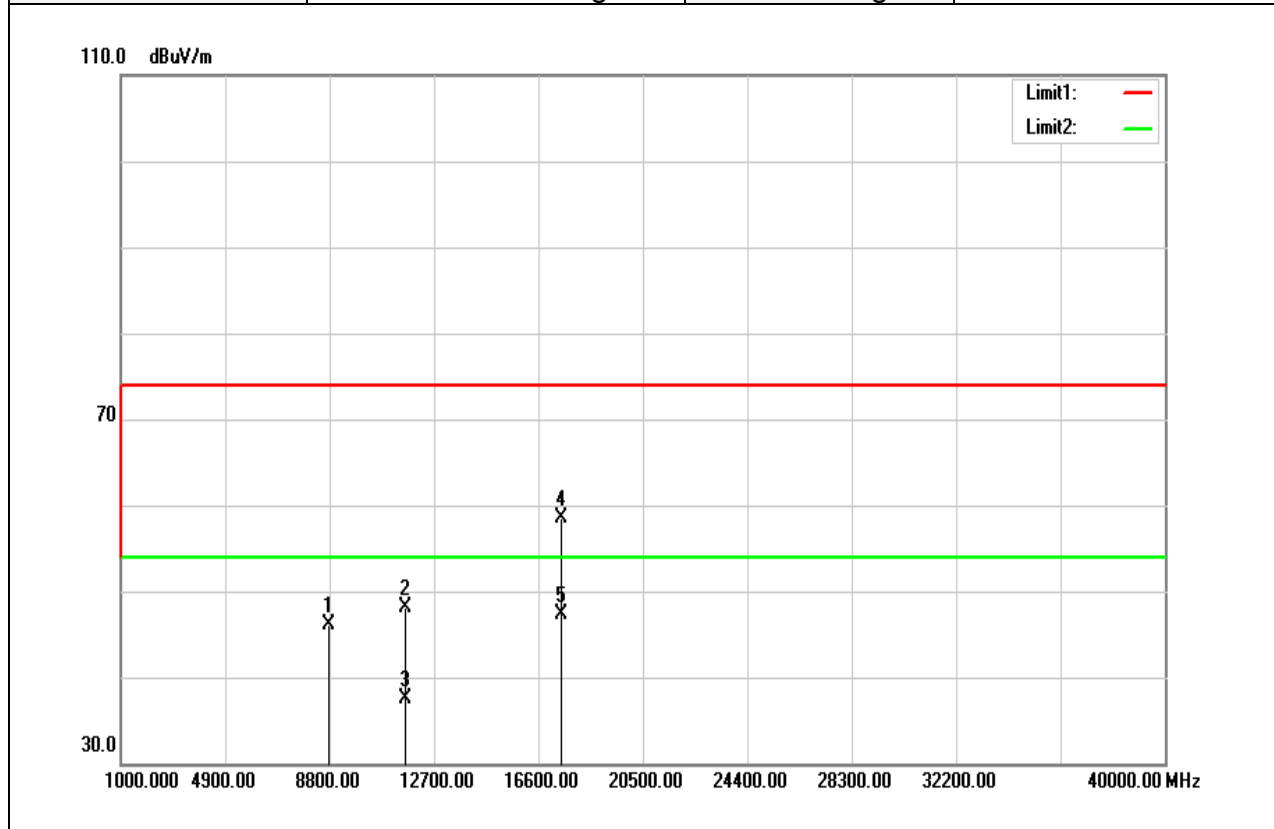


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8840.000	31.80	13.80	45.60	74.00	-28.40	peak
11570.000	31.16	16.84	48.00	74.00	-26.00	peak
11570.000	20.81	16.84	37.65	54.00	-16.35	AVG
17355.000	34.12	25.75	59.87	74.00	-14.13	peak
17355.000	22.88	25.75	48.63	54.00	-5.37	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

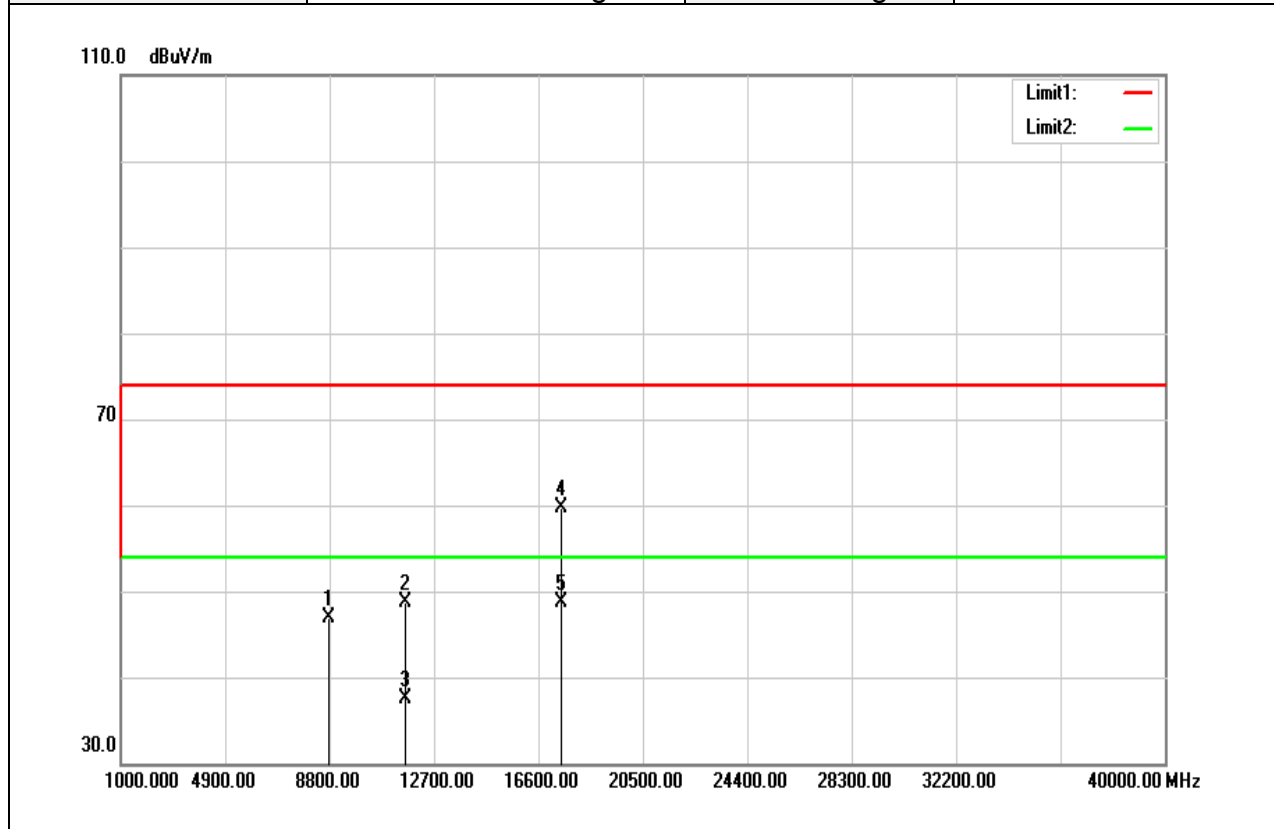


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	32.38	13.75	46.13	74.00	-27.87	peak
11650.000	31.24	16.91	48.15	74.00	-25.85	peak
11650.000	20.67	16.91	37.58	54.00	-16.42	AVG
17475.000	32.38	26.22	58.60	74.00	-15.40	peak
17475.000	21.05	26.22	47.27	54.00	-6.73	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

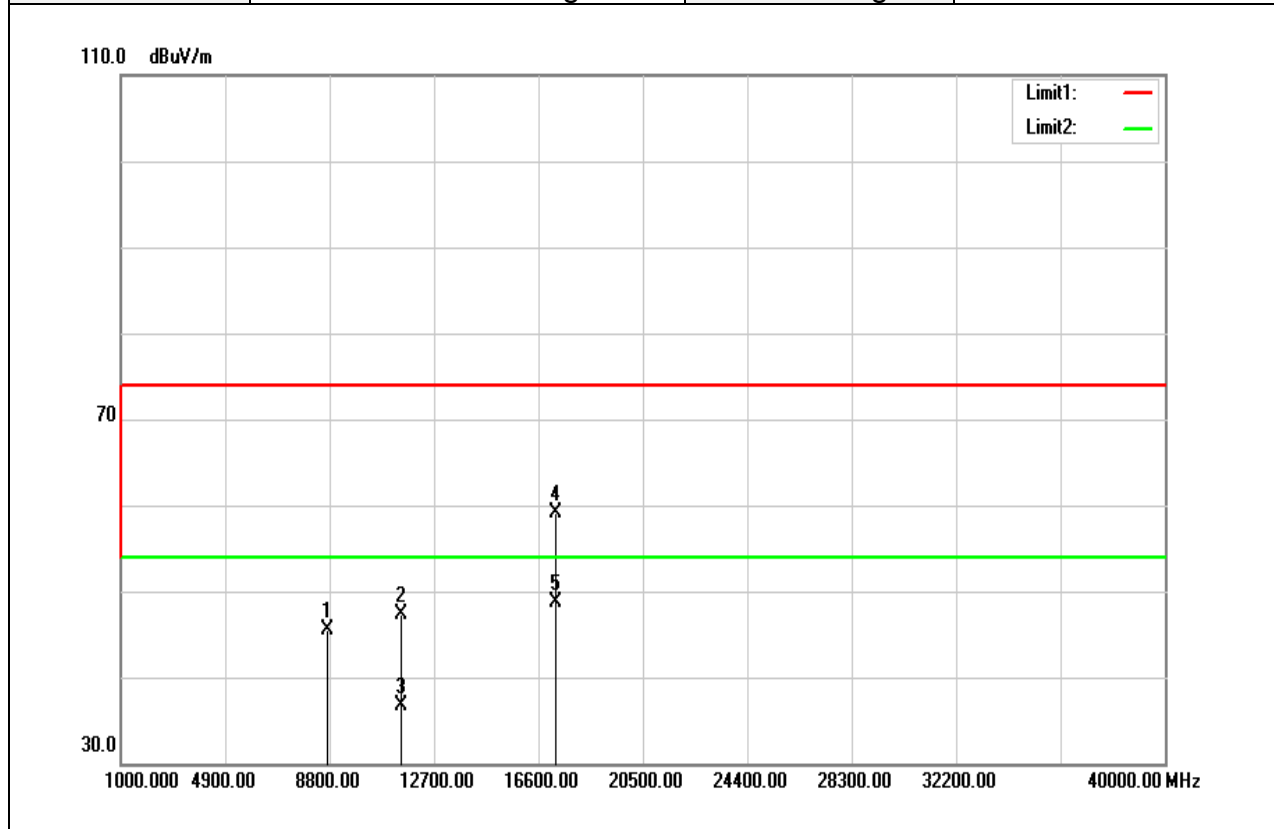


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8750.000	33.08	13.75	46.83	74.00	-27.17	peak
11650.000	31.86	16.91	48.77	74.00	-25.23	peak
11650.000	20.64	16.91	37.55	54.00	-16.45	AVG
17475.000	33.48	26.22	59.70	74.00	-14.30	peak
17475.000	22.41	26.22	48.63	54.00	-5.37	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



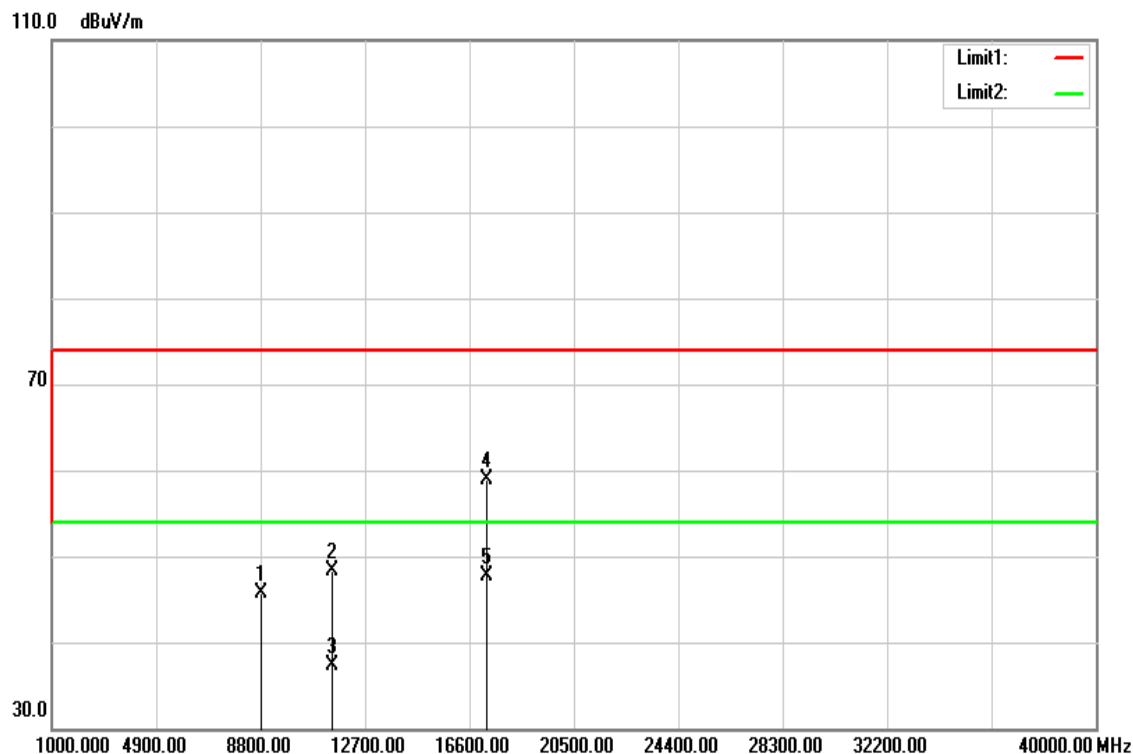
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8730.000	31.83	13.75	45.58	74.00	-28.42	peak
11490.000	30.61	16.78	47.39	74.00	-26.61	peak
11490.000	20.00	16.78	36.78	54.00	-17.22	AVG
17235.000	33.73	25.28	59.01	74.00	-14.99	peak
17235.000	23.48	25.28	48.76	54.00	-5.24	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

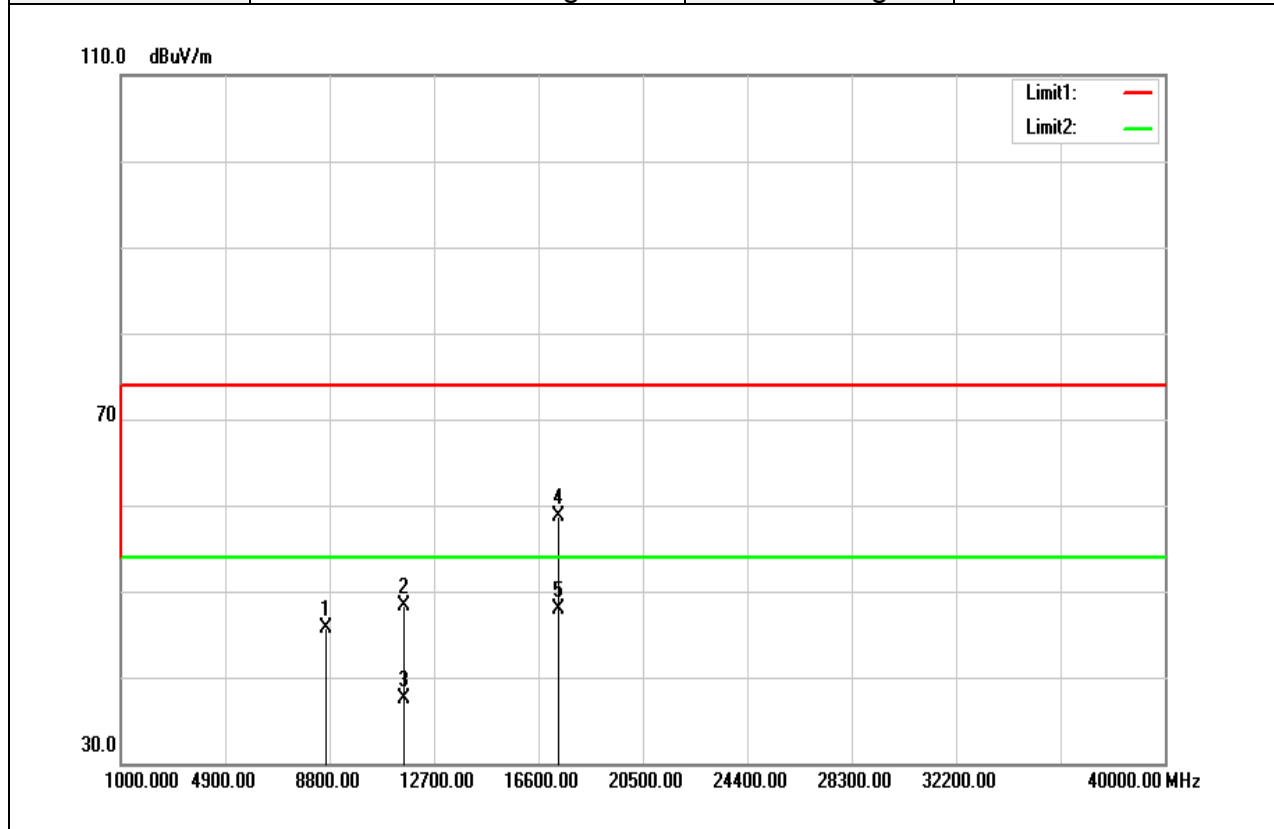


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8830.000	31.90	13.79	45.69	74.00	-28.31	peak
11490.000	31.60	16.78	48.38	74.00	-25.62	peak
11490.000	20.46	16.78	37.24	54.00	-16.76	AVG
17235.000	33.54	25.28	58.82	74.00	-15.18	peak
17235.000	22.41	25.28	47.69	54.00	-6.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

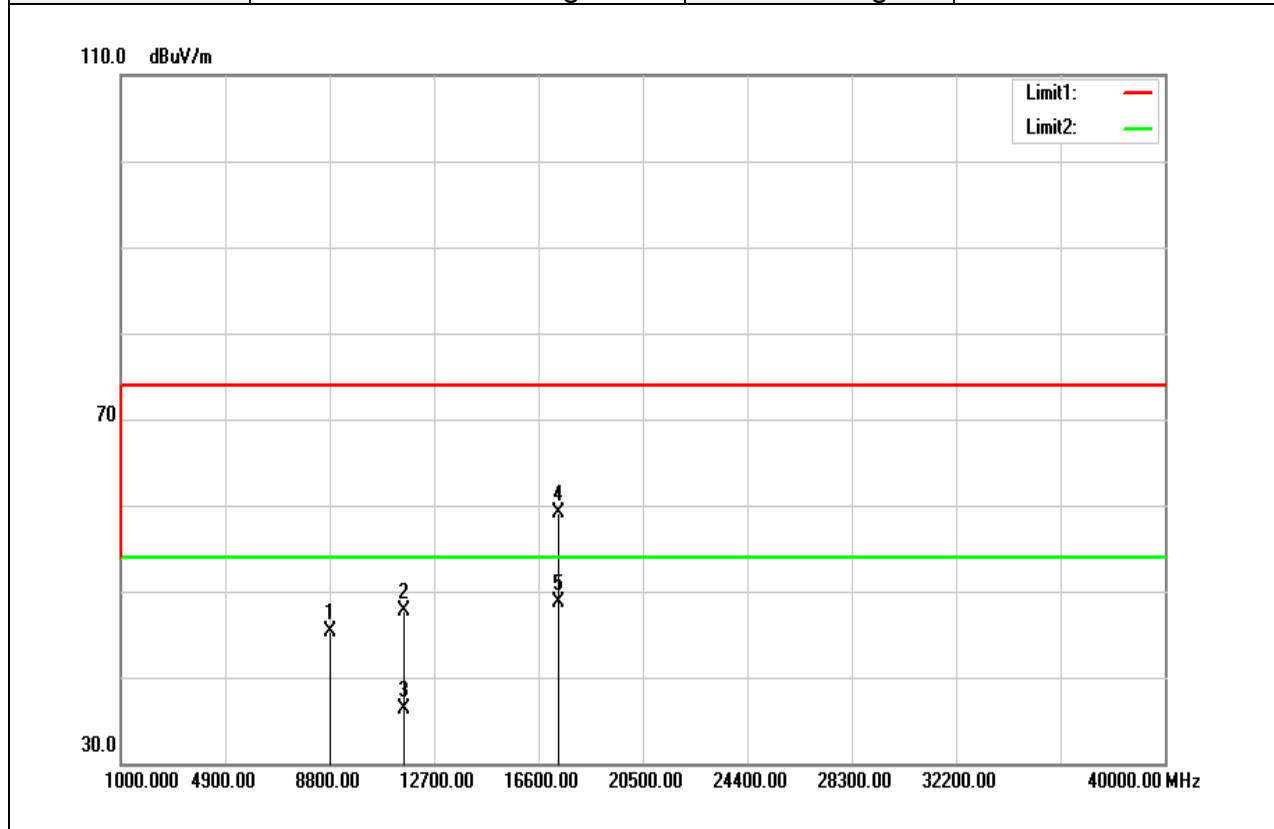


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8660.000	32.03	13.71	45.74	74.00	-28.26	peak
11570.000	31.50	16.84	48.34	74.00	-25.66	peak
11570.000	20.65	16.84	37.49	54.00	-16.51	AVG
17355.000	32.93	25.75	58.68	74.00	-15.32	peak
17355.000	22.08	25.75	47.83	54.00	-6.17	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

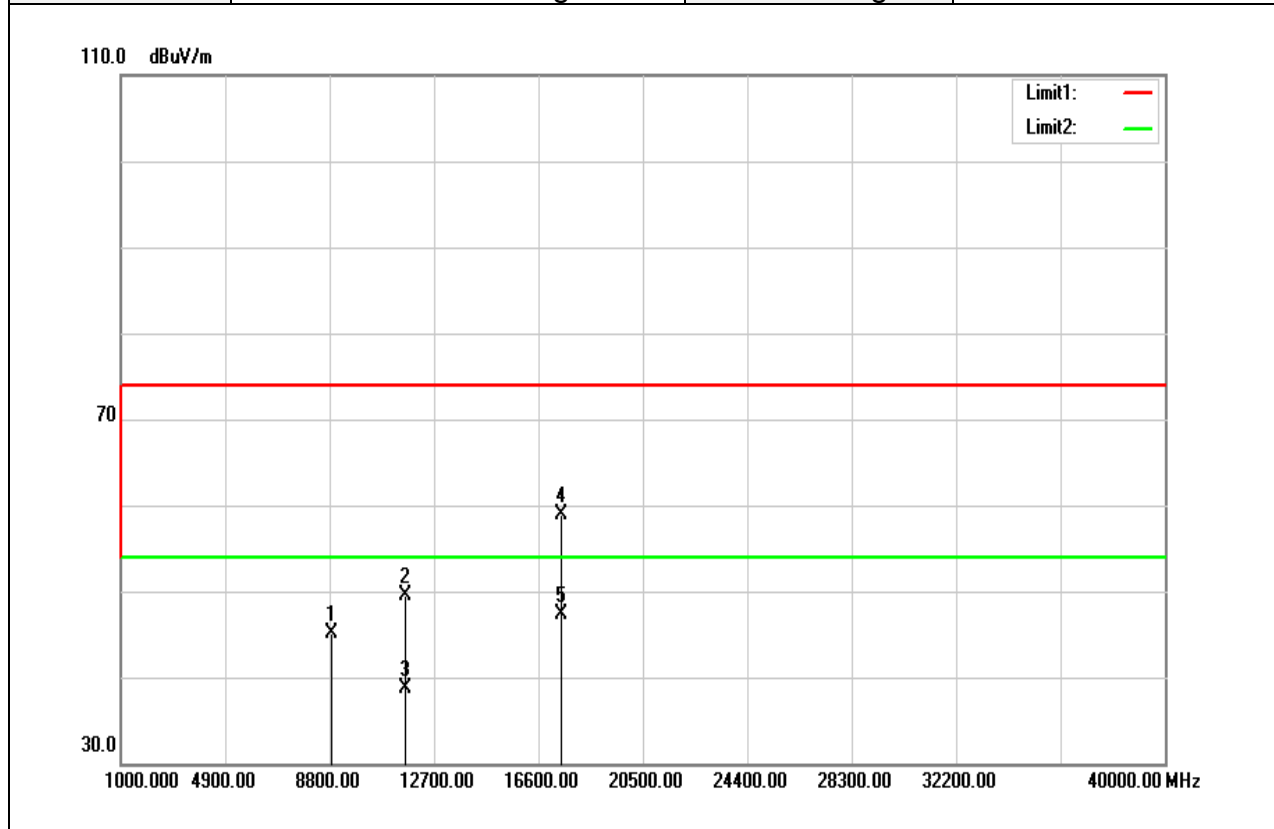


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8830.000	31.61	13.79	45.40	74.00	-28.60	peak
11570.000	30.91	16.84	47.75	74.00	-26.25	peak
11570.000	19.44	16.84	36.28	54.00	-17.72	AVG
17355.000	33.39	25.75	59.14	74.00	-14.86	peak
17355.000	22.94	25.75	48.69	54.00	-5.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

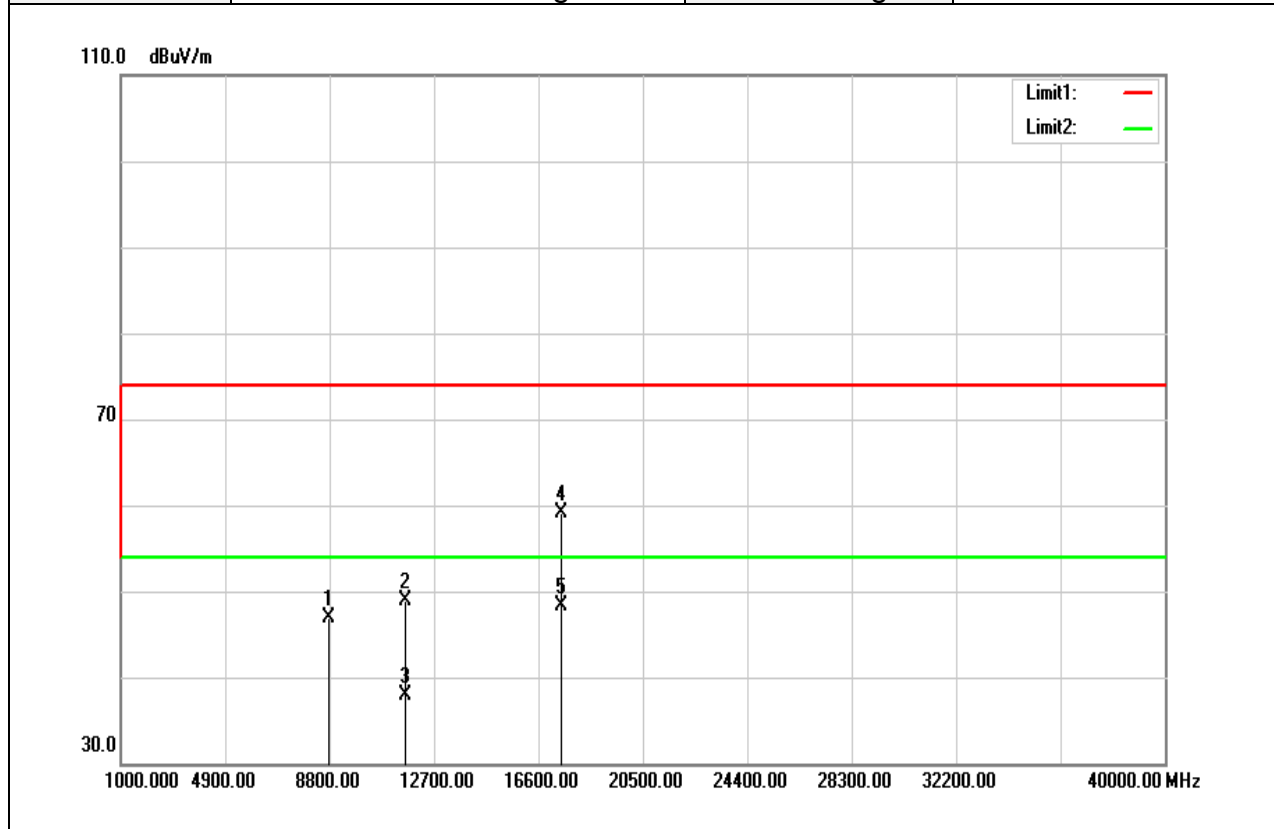


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8860.000	31.32	13.81	45.13	74.00	-28.87	peak
11650.000	32.66	16.91	49.57	74.00	-24.43	peak
11650.000	21.73	16.91	38.64	54.00	-15.36	AVG
17475.000	32.64	26.22	58.86	74.00	-15.14	peak
17475.000	21.00	26.22	47.22	54.00	-6.78	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

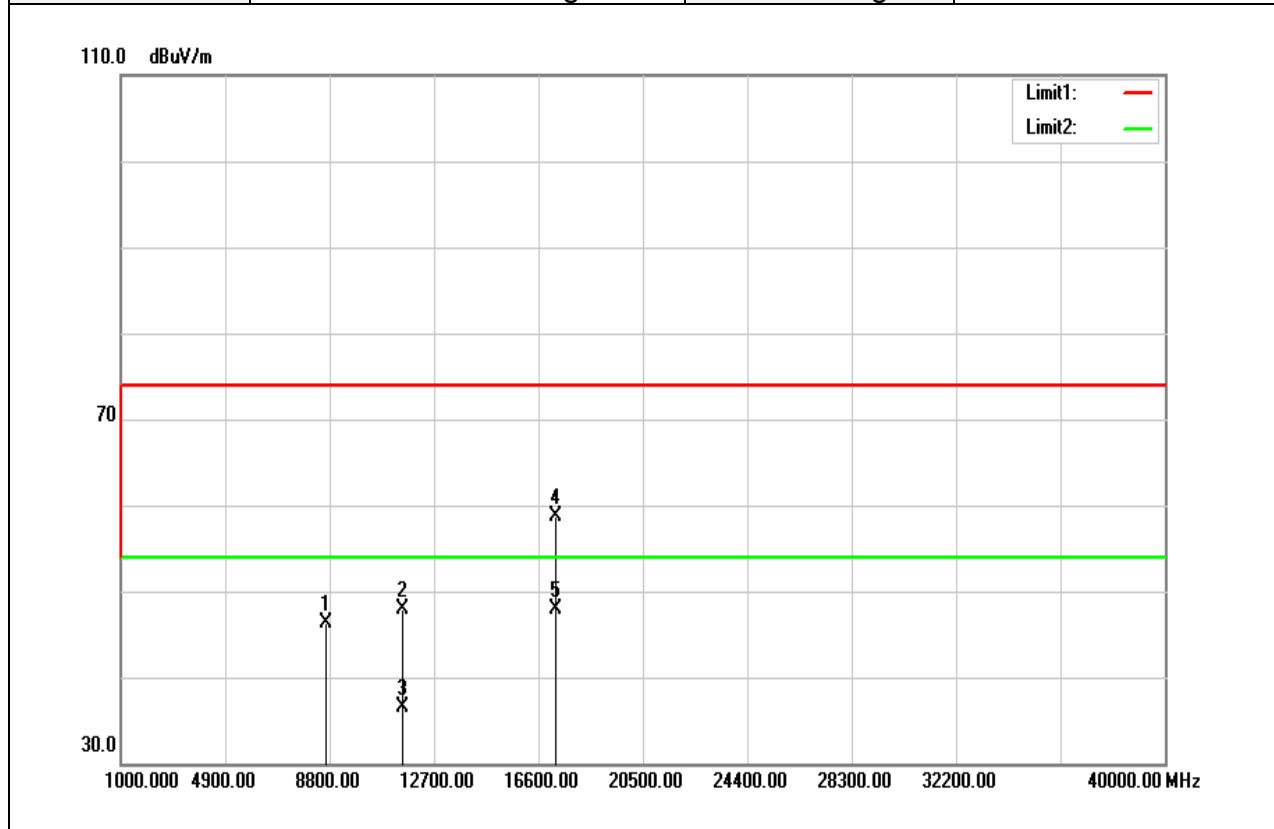


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8760.000	33.19	13.76	46.95	74.00	-27.05	peak
11650.000	32.03	16.91	48.94	74.00	-25.06	peak
11650.000	20.91	16.91	37.82	54.00	-16.18	AVG
17475.000	32.86	26.22	59.08	74.00	-14.92	peak
17475.000	22.15	26.22	48.37	54.00	-5.63	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

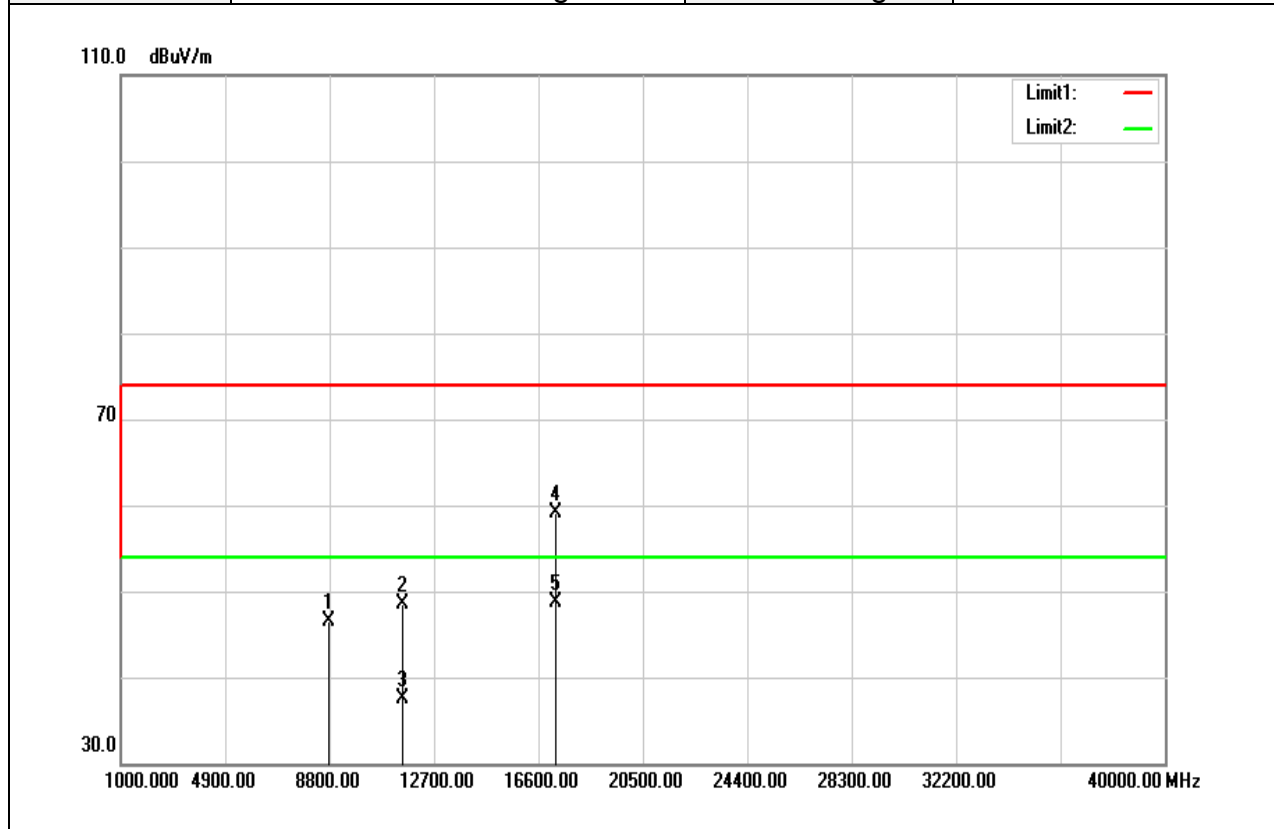


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8670.000	32.60	13.72	46.32	74.00	-27.68	peak
11510.000	31.19	16.79	47.98	74.00	-26.02	peak
11510.000	19.79	16.79	36.58	54.00	-17.42	AVG
17265.000	33.23	25.40	58.63	74.00	-15.37	peak
17265.000	22.44	25.40	47.84	54.00	-6.16	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

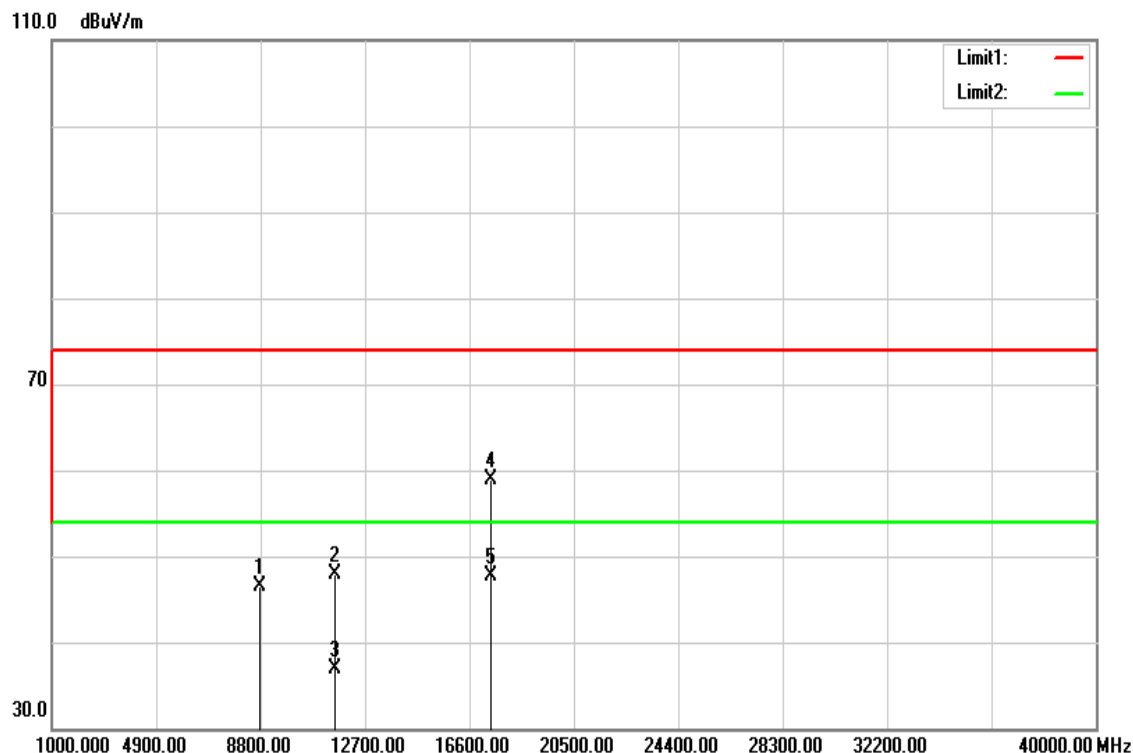


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8790.000	32.81	13.77	46.58	74.00	-27.42	peak
11510.000	31.64	16.79	48.43	74.00	-25.57	peak
11510.000	20.79	16.79	37.58	54.00	-16.42	AVG
17265.000	33.77	25.40	59.17	74.00	-14.83	peak
17265.000	23.29	25.40	48.69	54.00	-5.31	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



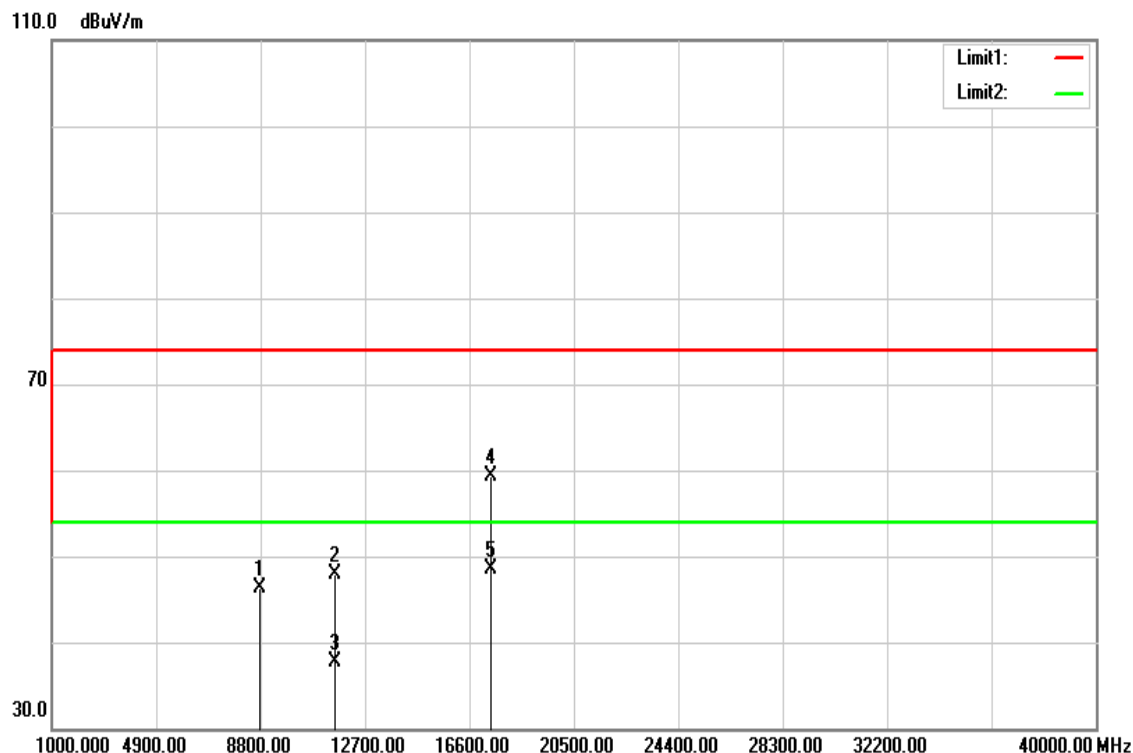
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8780.000	32.68	13.77	46.45	74.00	-27.55	peak
11590.000	31.06	16.86	47.92	74.00	-26.08	peak
11590.000	19.99	16.86	36.85	54.00	-17.15	AVG
17385.000	33.00	25.87	58.87	74.00	-15.13	peak
17385.000	21.76	25.87	47.63	54.00	-6.37	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

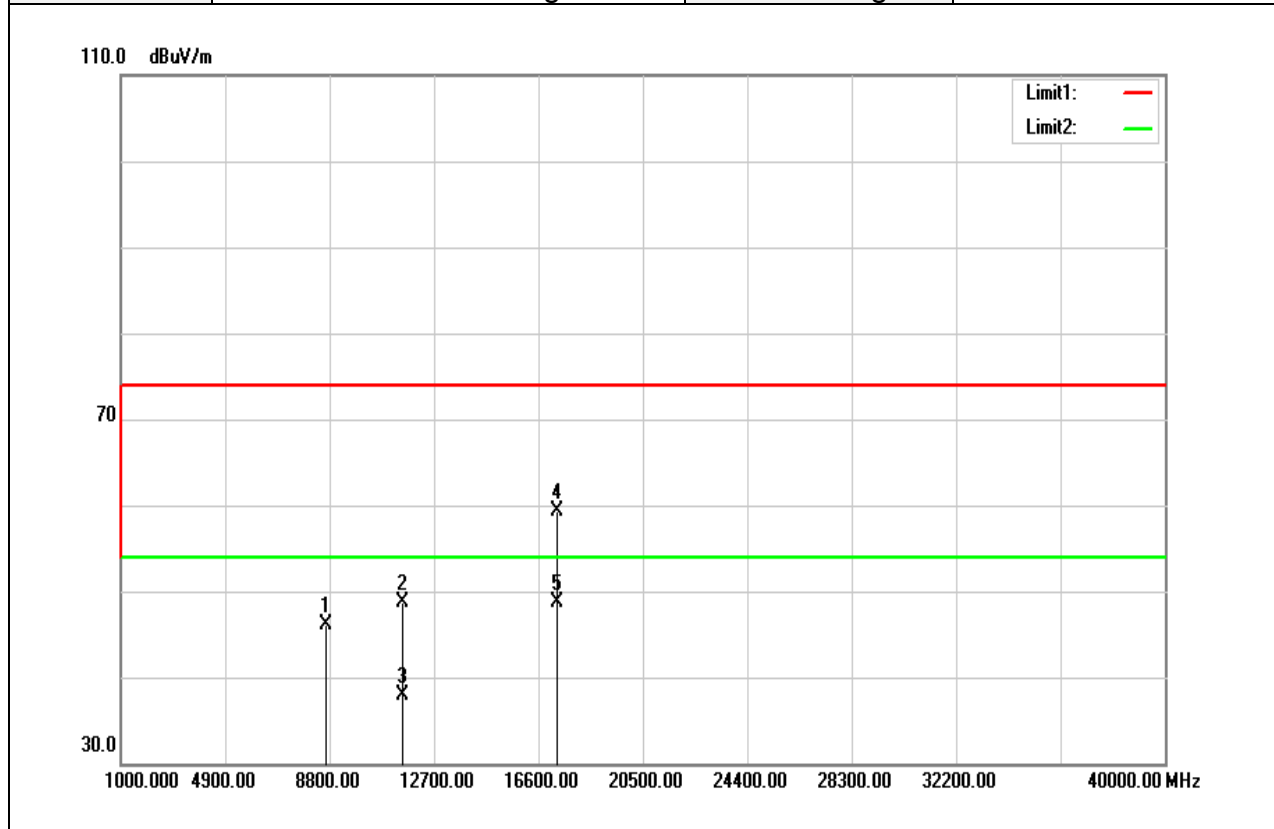


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8770.000	32.61	13.76	46.37	74.00	-27.63	peak
11590.000	31.14	16.86	48.00	74.00	-26.00	peak
11590.000	20.82	16.86	37.68	54.00	-16.32	AVG
17385.000	33.46	25.87	59.33	74.00	-14.67	peak
17385.000	22.60	25.87	48.47	54.00	-5.53	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Vertical	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz

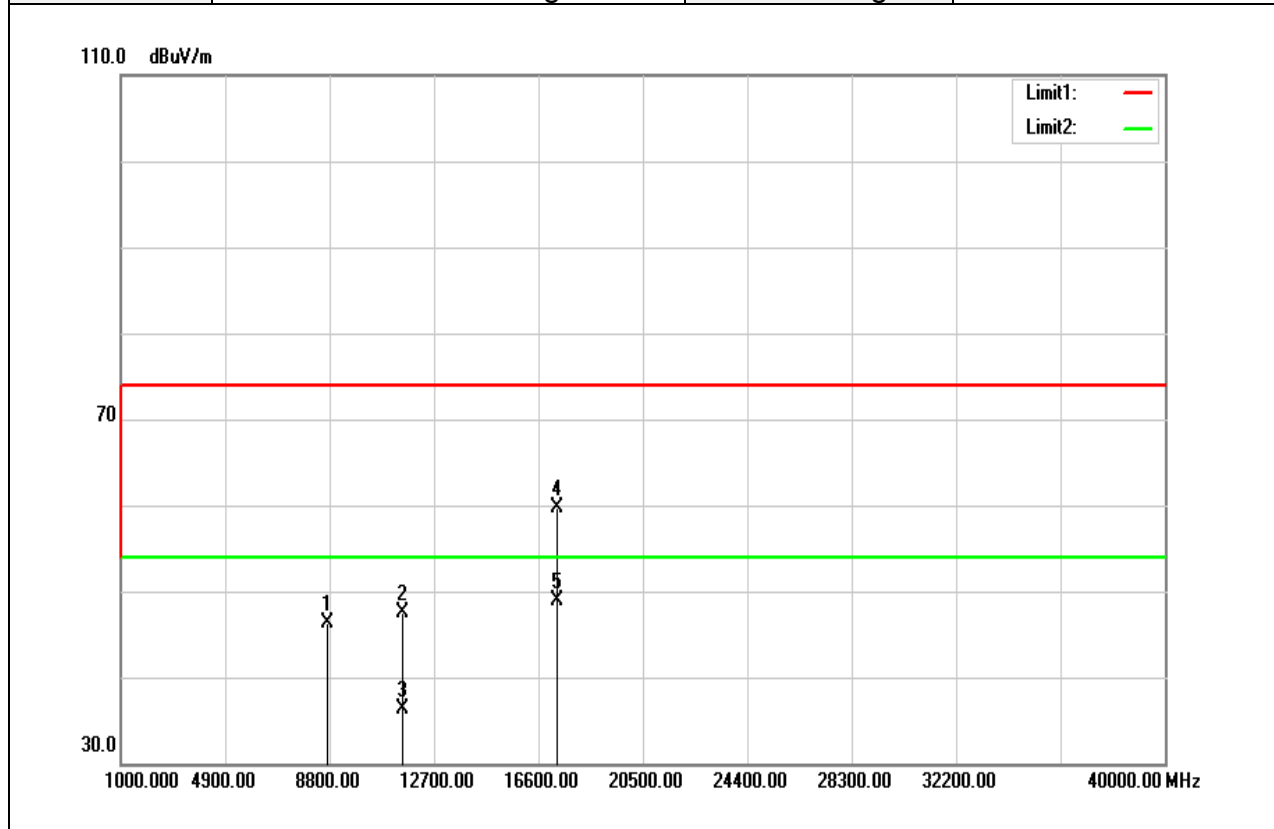


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8690.000	32.37	13.73	46.10	74.00	-27.90	peak
11550.000	31.91	16.82	48.73	74.00	-25.27	peak
11550.000	21.04	16.82	37.86	54.00	-16.14	AVG
17325.000	33.73	25.63	59.36	74.00	-14.64	peak
17325.000	23.11	25.63	48.74	54.00	-5.26	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	22(°C)/ 35%RH
Test Item	Harmonic	Test Date	May 22, 2017
Polarize	Horizontal	Test Engineer	Ed.Chiang
Detector	Peak and Average	Test Voltage	120Vac / 60Hz



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8720.000	32.47	13.74	46.21	74.00	-27.79	peak
11550.000	30.64	16.82	47.46	74.00	-26.54	peak
11550.000	19.45	16.82	36.27	54.00	-17.73	AVG
17325.000	34.02	25.63	59.65	74.00	-14.35	peak
17325.000	23.31	25.63	48.94	54.00	-5.06	AVG

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

## 4.6 FREQUENCY STABILITY

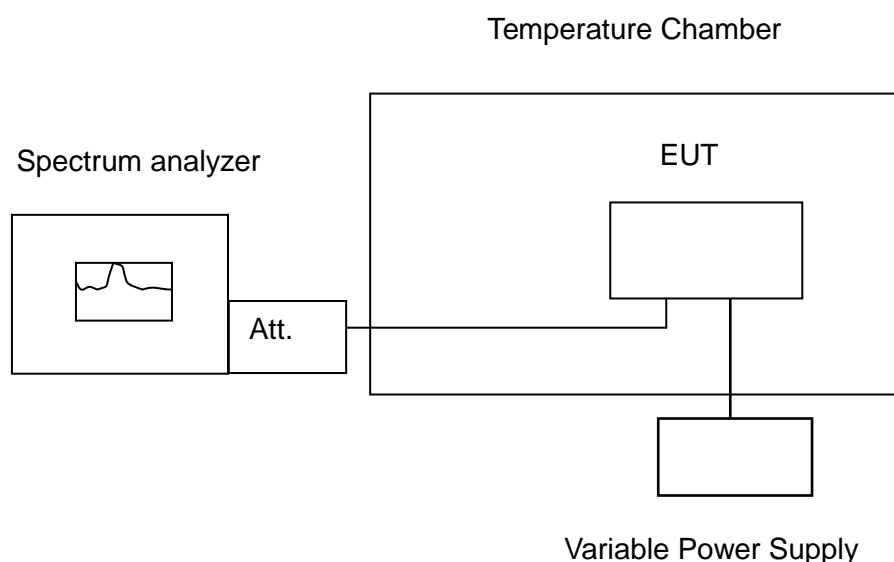
### 4.6.1 Test Limit

According to §15.407(g) 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 operational description.

### 4.6.2 Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

### 4.6.3 Test Setup



**4.6.4 Test Result**

Temp. (°C)	Voltage (V)	Measured Frequency	5180				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
50	5	5180.11032	5180.11240	5180.11120	5180.11090	21.2973	21.6988	21.4672	21.4093	Pass	
40	5	5180.10951	5180.10951	5180.10942	5180.10231	21.1409	21.1416	21.1241	19.7510	Pass	
30	5	5180.08012	5180.08041	5180.07064	5180.07096	15.4678	15.5236	13.6373	13.6996	Pass	
20	5	5180.08053	5180.07056	5180.05064	5180.06051	15.5465	13.6218	9.7768	11.6820	Pass	
10	5	5180.04356	5180.04321	5180.04615	5180.03146	8.4100	8.3421	8.9083	6.0726	Pass	
0	5	5180.02185	5180.02549	5180.03456	5180.02730	4.2191	4.9200	6.6721	5.2703	Pass	
-10	5	5180.00146	5180.00373	5180.00484	5180.07879	0.2811	0.7205	0.9346	15.2106	Pass	
-20	5	5179.98083	5179.97863	5179.95351	5179.94545	-3.7006	-4.1253	-8.9745	-10.5303	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5180				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
20	4.5	5180.085643	5180.08525	5180.05783	5180.06354	16.5333	16.4581	11.1646	12.2670	Pass	
20	5	5180.085483	5180.07549	5180.05064	5180.06518	16.5025	14.5726	9.7768	12.5833	Pass	
20	5.5	5180.084943	5180.06127	5180.06361	5180.07655	16.3983	11.8272	12.2803	14.7776	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5260				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
50	5	5260.09621	5260.08366	5260.08524	5260.08785	18.2916	15.9042	16.2053	16.7015	Pass	
40	5	5260.07462	5260.07560	5260.06146	5260.06154	14.1869	14.3726	11.6837	11.6996	Pass	
30	5	5260.06206	5260.04027	5260.04146	5260.05145	11.7977	7.6550	7.8814	9.7814	Pass	
20	5	5260.04056	5260.04027	5260.03065	5260.02065	7.7103	7.6549	5.8278	3.9267	Pass	
10	5	5260.01060	5260.03067	5260.02065	5260.03054	2.0152	5.8298	3.9266	5.8061	Pass	
0	5	5260.00065	5260.00107	5260.00404	5260.00654	0.1243	0.2025	0.7681	1.2433	Pass	
-10	5	5259.96068	5259.96585	5259.96535	5259.96415	-7.4753	-6.4918	-6.5875	-6.8156	Pass	
-20	5	5259.95880	5259.95298	5259.95654	5259.95356	-7.8327	-8.9384	-8.2622	-8.8289	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5260				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
20	4.5	5260.04064	5260.04064	5260.03454	5260.03056	7.7262	7.7262	6.5665	5.8095	Pass	
20	5	5260.04985	5260.04589	5260.03058	5260.02055	9.4770	8.7251	5.8144	3.9064	Pass	
20	5.5	5260.05165	5260.05269	5260.05456	5260.05544	9.8202	10.0179	10.3726	10.5399	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5500				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
50	5	5500.09654	5500.09364	5500.09650	5500.09655	17.5527	17.0255	17.5455	17.5543	Pass	
40	5	5500.10064	5500.10054	5500.10065	5500.10065	18.2990	18.2800	18.3007	18.2995	Pass	
30	5	5500.10145	5500.10654	5500.10642	5500.10453	18.4445	19.3709	19.3493	19.0062	Pass	
20	5	5500.07619	5500.07174	5500.07492	5500.07465	13.8524	13.0438	13.6215	13.5727	Pass	
10	5	5500.06253	5500.06541	5500.06542	5500.06658	11.3698	11.8935	11.8938	12.1062	Pass	
0	5	5500.05534	5500.05517	5500.05465	5500.05654	10.0618	10.0306	9.9364	10.2807	Pass	
-10	5	5500.03164	5500.03546	5500.03255	5500.03864	5.7527	6.4466	5.9184	7.0255	Pass	
-20	5	5500.00895	5500.00541	5500.00585	5500.00675	1.6273	0.9844	1.0645	1.2273	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5500				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
20	4.5	5500.07265	5500.07366	5500.07545	5500.07521	13.2091	13.3925	13.7184	13.6753	Pass	
20	5	5500.07254	5500.07150	5500.07562	5500.07425	13.1891	13.0002	13.7491	13.5000	Pass	
20	5.5	5500.06620	5500.06561	5500.06655	5500.02654	12.0371	11.9291	12.1007	4.8255	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5180				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
50	5	5745.10945	5745.11068	5745.11214	5745.10065	19.0520	19.2654	19.5196	17.5196	Pass	
40	5	5745.09498	5745.09494	5745.09651	5745.09987	16.5326	16.5258	16.7990	17.3838	Pass	
30	5	5745.08984	5745.08840	5745.08925	5745.07168	15.6379	15.3880	15.5345	12.4769	Pass	
20	5	5745.07574	5745.07794	5745.07724	5745.07903	13.1836	13.5666	13.4447	13.7558	Pass	
10	5	5745.05529	5745.05187	5745.05417	5745.05411	9.6235	9.0280	9.4288	9.4193	Pass	
0	5	5745.03145	5745.03482	5745.03687	5745.03462	5.4743	6.0602	6.4179	6.0258	Pass	
-10	5	5745.00687	5745.00581	5745.00926	5745.00849	1.1961	1.0108	1.6125	1.4777	Pass	
-20	5	5745.00045	5745.00015	5745.00047	5745.00036	0.0783	0.0254	0.0815	0.0618	Pass	

Temp. (°C)	Voltage (V)	Measured Frequency	5180				Limit				Result
			Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min		
20	4.5	5745.06549	5745.06649	5745.06486	5745.06499	11.3990	11.5732	11.2898	11.3119	Pass	
20	5	5745.07665	5745.07168	5745.07645	5745.07195	13.3420	12.4769	13.3072	12.5231	Pass	
20	5.5	5745.07987	5745.07681	5745.07684	5745.07687	13.9025	13.3702	13.3751	13.3803	Pass	

## 4.7 DYNAMIC FREQUENCY SELECTION

### 4.7.1 Test Limit

FCC according to §15.407 (h), KDB 905462 D02 "compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection". and KDB 905462 D03 " U-NII client devices without radar detection capability.

IC according RSS-247 section 6.3, and it harmonized with FCC Part 15 DFS rules,

**Table 1: Applicability of DFS requirements prior to use of a channel**

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client(with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

**Table 2: Applicability of DFS requirements during normal operation**

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth mods	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**Table 3: Interference Threshold values, Master or Client incorporating In-Service**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.  
**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.  
**Note 3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

**Table 4: DFS Response requirement values**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

**Note 1:** Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.  
**Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.  
**Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



**Table 5 – Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

**Table 6 – Long Pulse Radar Test Signal**

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

**Table 7 – Frequency Hopping Radar Test Signal**

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

## **4.7.2 Test Procedure**

### **Overview Of EUT With Respect To §15.407 (H) Requirements**

The firmware installed in the EUT during testing was:

Firmware Rev: 2013.12.1117.2014

The EUT operates over the 5250-5350 MHz range as a Client Device that does not have radar detection capability.

The EUT uses one transmitter connected to two 50-ohm coaxial antenna ports via a diversity switch. Only one antenna port is connected to the test system since the EUT has one antenna only.

The Slave device associated with the EUT during these tests does not have radar detection capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20 MHz.

The rated output power of the Master unit is < 23dBm (EIRP). Therefore the required interference threshold level is -62 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is  $-62 + 5 = -57$ dBm.

The calibrated conducted DFS Detection Threshold level is set to -57 dBm. The tested level is lower than the required level hence it provides margin to the limit.

### **Manufacturer’s Statement Regarding Uniform Channel Spreading**

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.

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## **TEST AND MEASUREMENT SYSTEM**

### **System Overview**

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

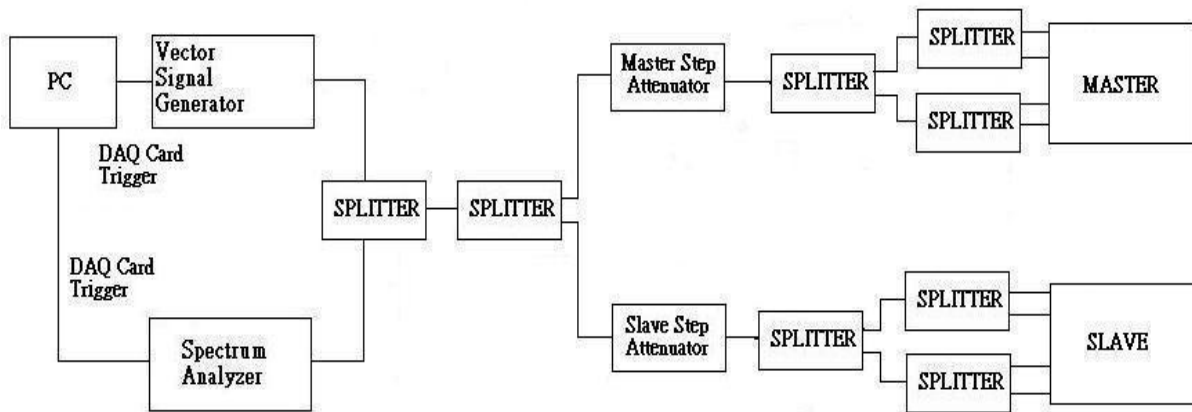
The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. The time-domain resolution is 3 msec / bin with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), 50 ohm termination would be removed from the splitter so that connection can be established between splitter and the Master and/or Slave devices.

### **Conducted Method System Block Diagram**



### **System Calibration**

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of  $-62$  dBm on the spectrum analyzer.

Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from  $-62$  dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at  $-62$  dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at  $-62$  dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of  $-62$  dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

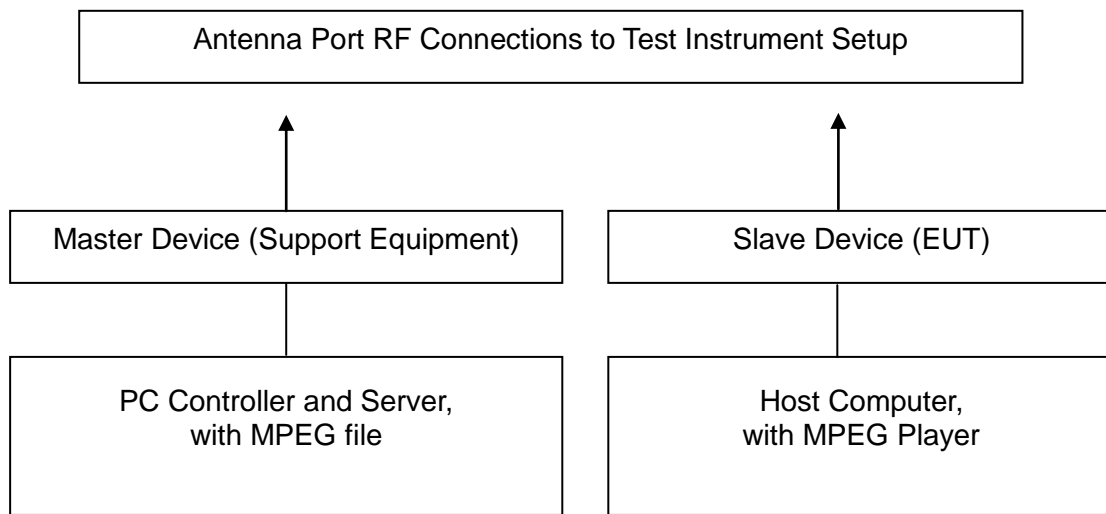
Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

### **Adjustment Of Displayed Traffic Level**

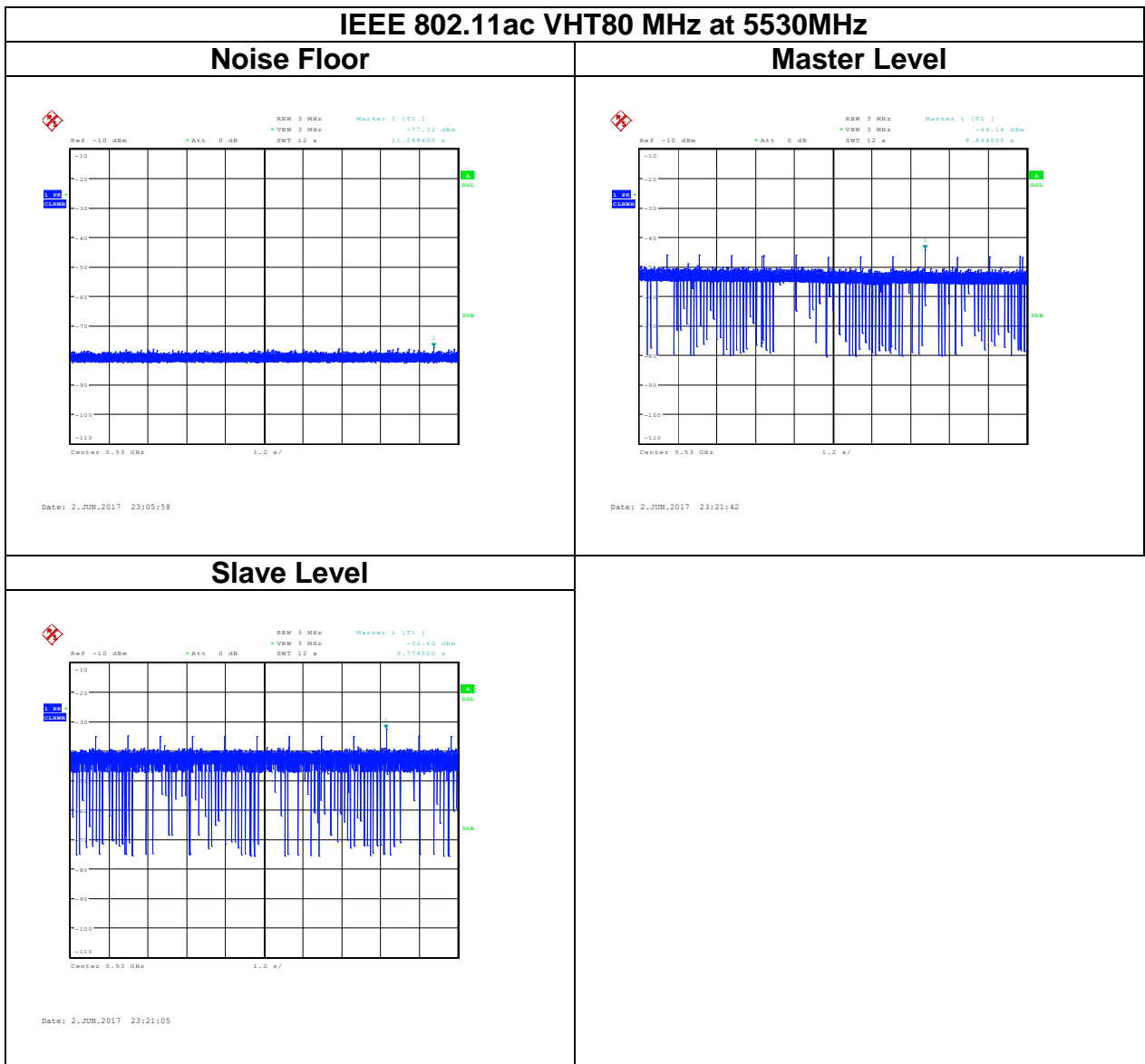
Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.

### 4.7.3 Test Setup



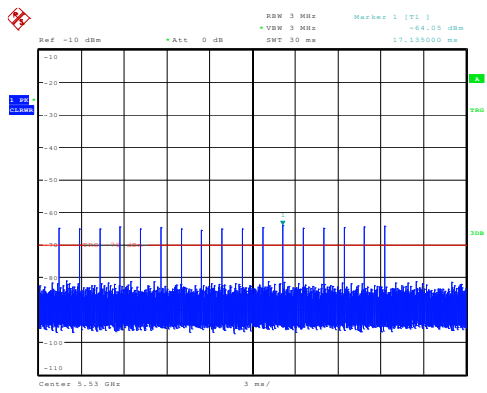
### 4.7.4 Test Result





**Radar Waveforms**

**Sample of short Pluse Radar Type 0**



Date: 2 JUN 2017 21:05:22

**TEST CHANNEL AND METHOD**

All tests were performed at a channel center frequency of 5530 MHz utilizing a conducted test method.

**CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME****GENERAL REPORTING NOTES**

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

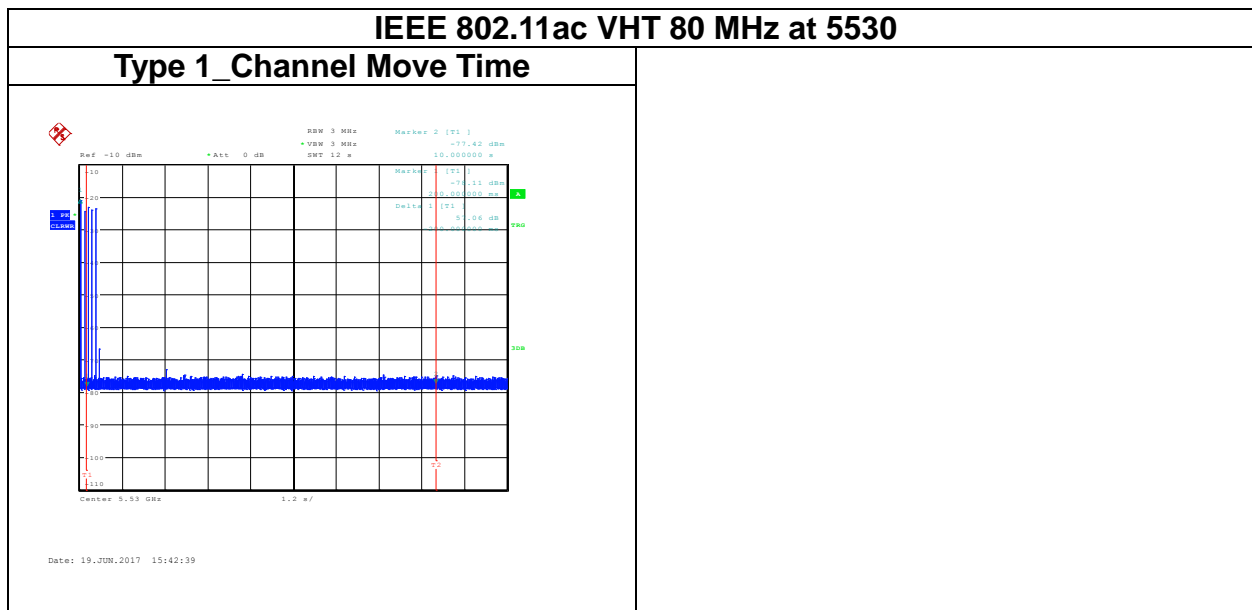
Aggregate Transmission Time =

(Number of analyzer bins showing transmission) \* (dwell time per bin)

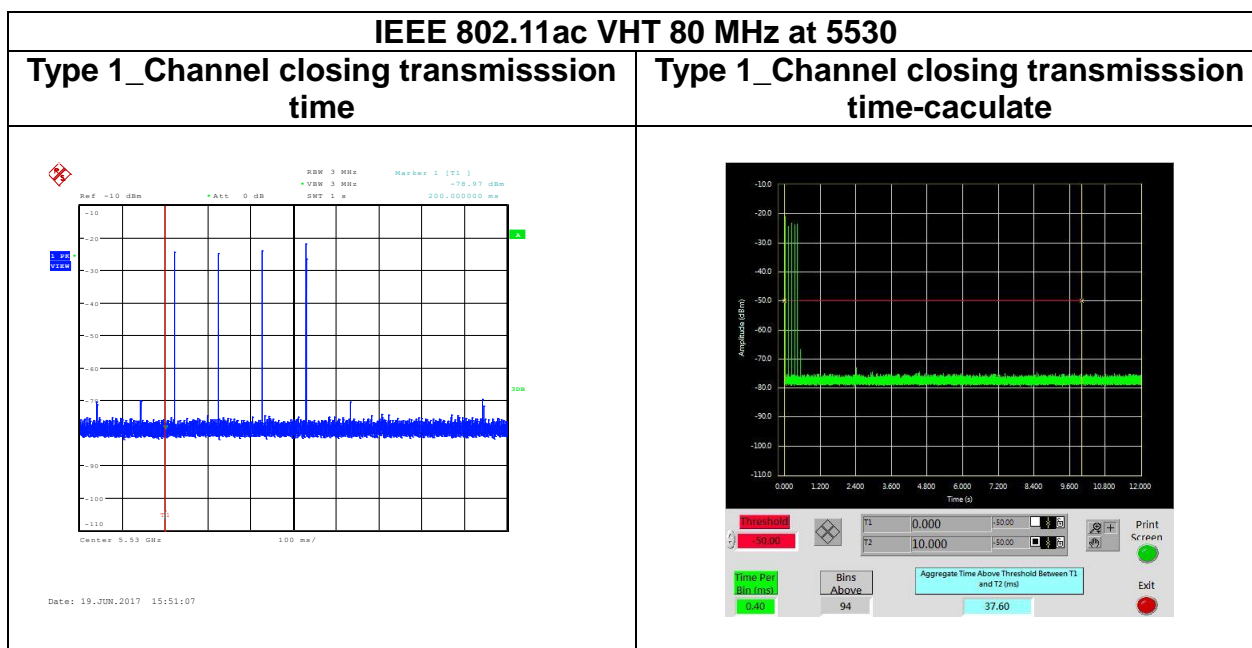
The observation period over which the aggregate time is calculated

Begins at (Reference Marker + 200 msec) and

Ends no earlier than (Reference Marker + 10 sec).

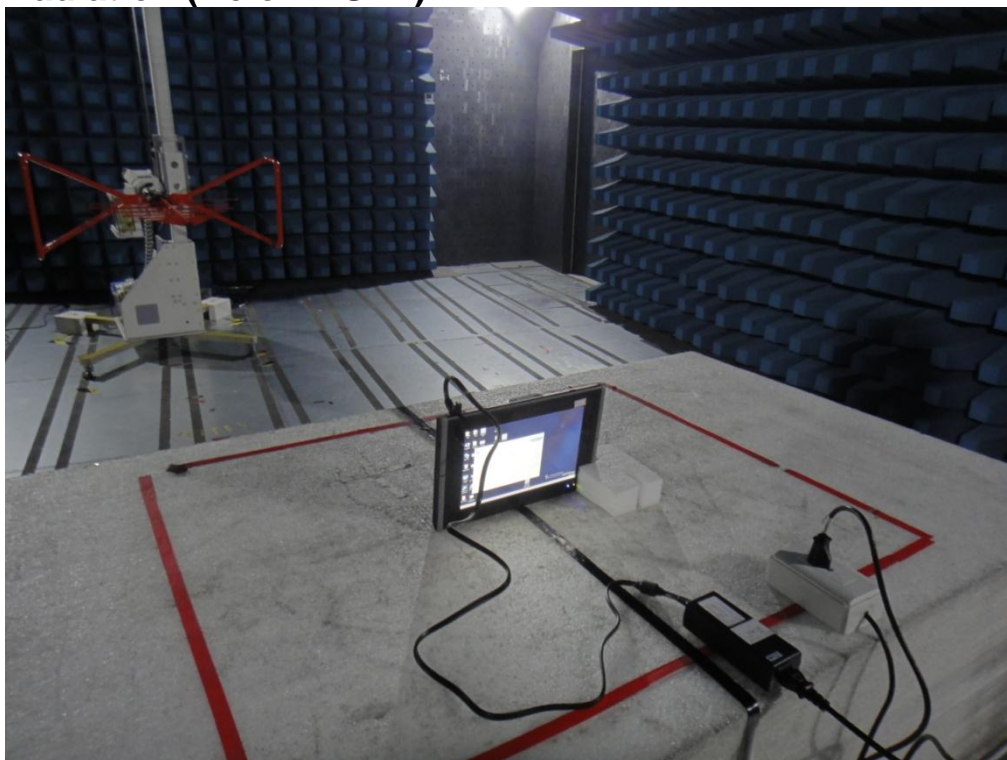


<b>Channel Move Time (ms)</b>	<b>Limit (s)</b>
200	10

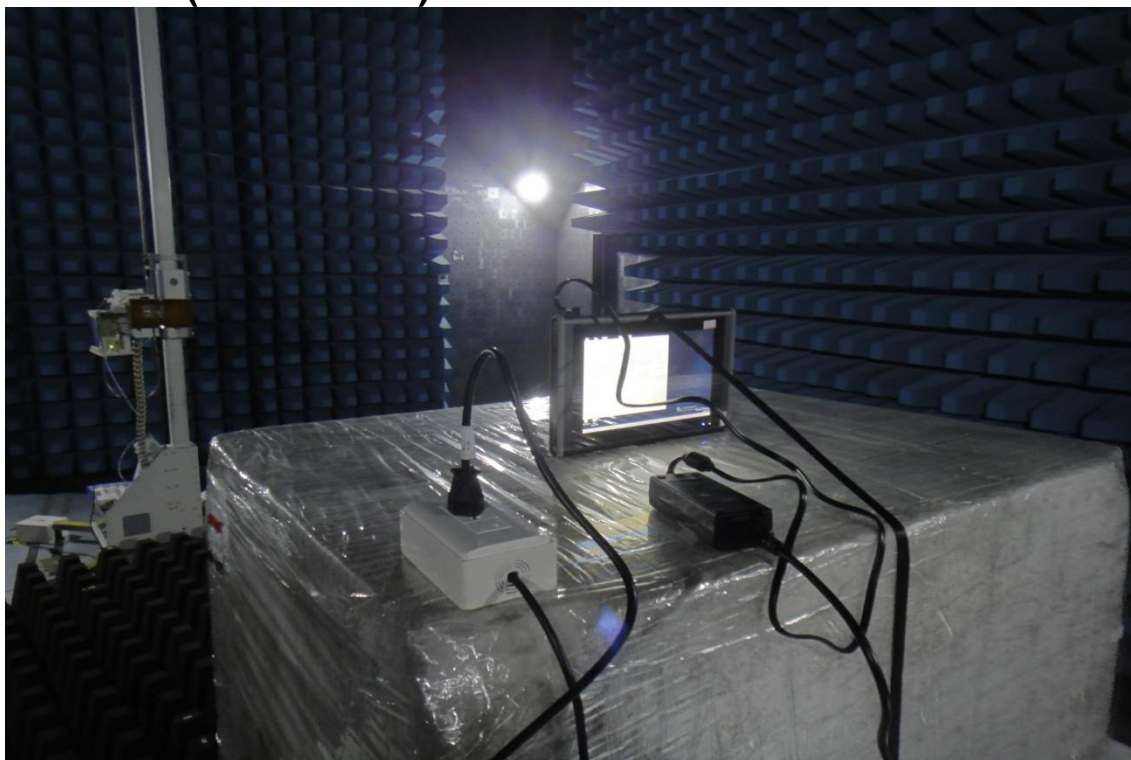


<b>Aggregate Transmission Time (ms)</b>	<b>Limit (ms)</b>	<b>Margin (ms)</b>
37.6	60	-22.4

## APPENDIX-A Test Photo Radiation (Below 1GHz)



## Radiation (Above 1GHz)



## Conduction



**DFS**

