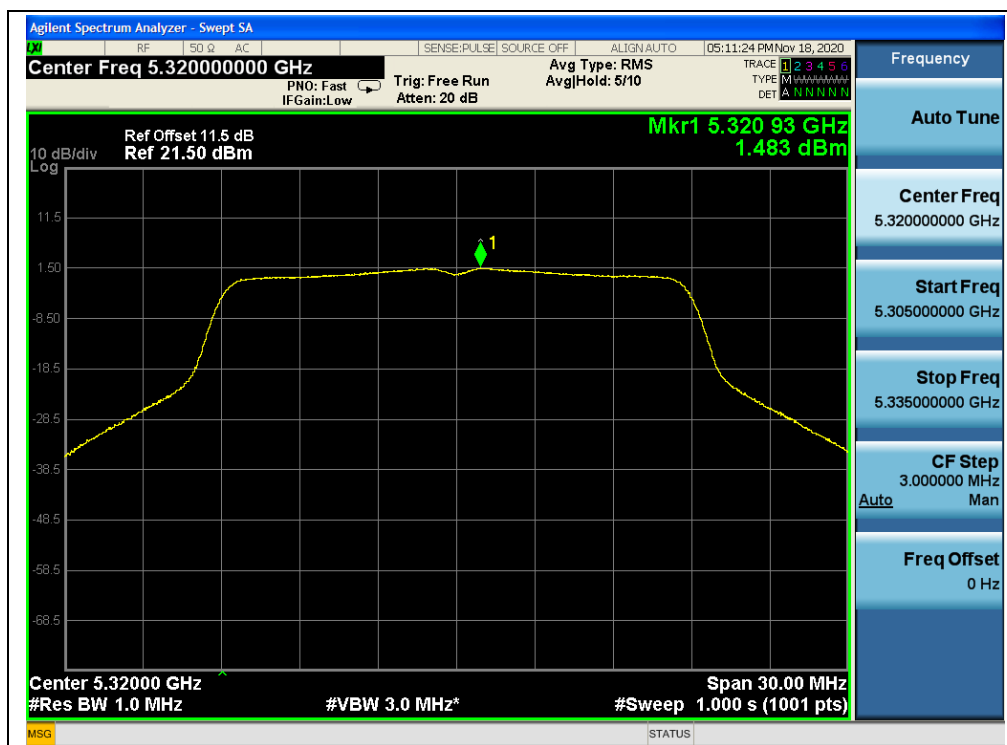




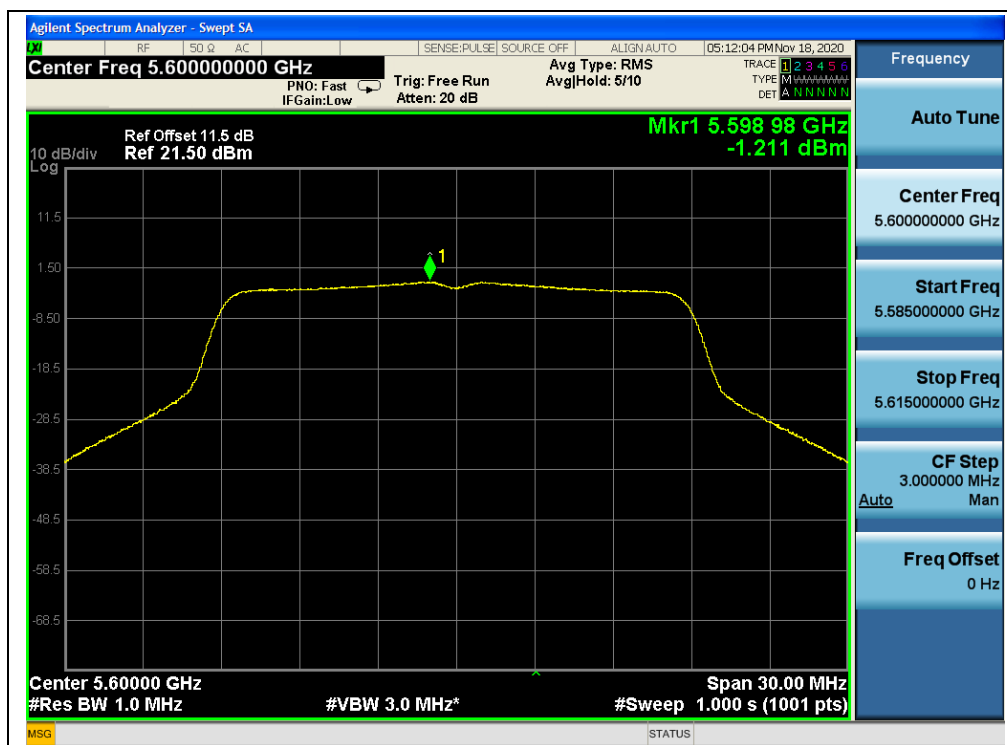
(Channel 60, 5300MHz, 802.11ac (VHT20), ANT1)



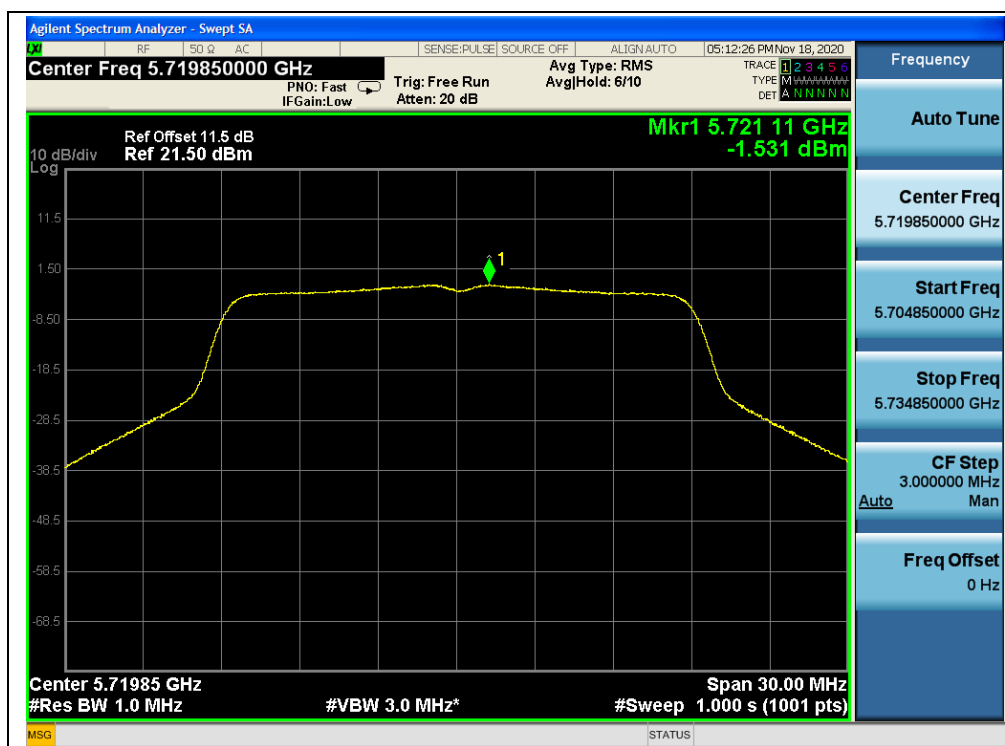
(Channel 64, 5320MHz, 802.11ac (VHT20), ANT1)



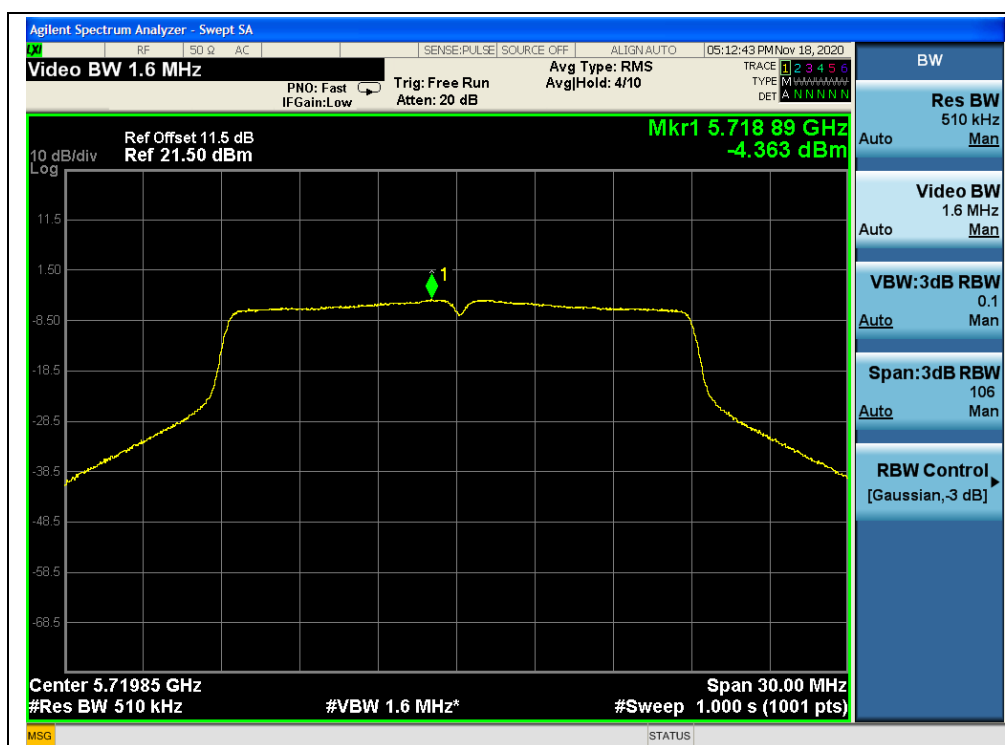
(Channel 100, 5500MHz, 802.11ac (VHT20), ANT1)



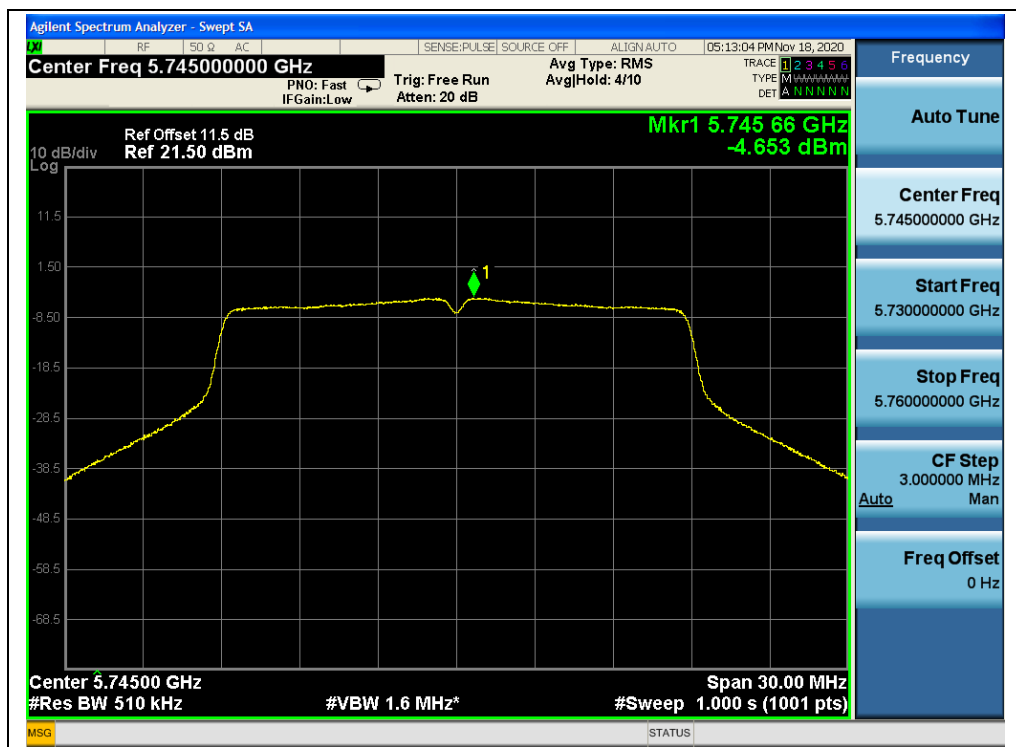
(Channel 120, 5600MHz, 802.11ac (VHT20), ANT1)



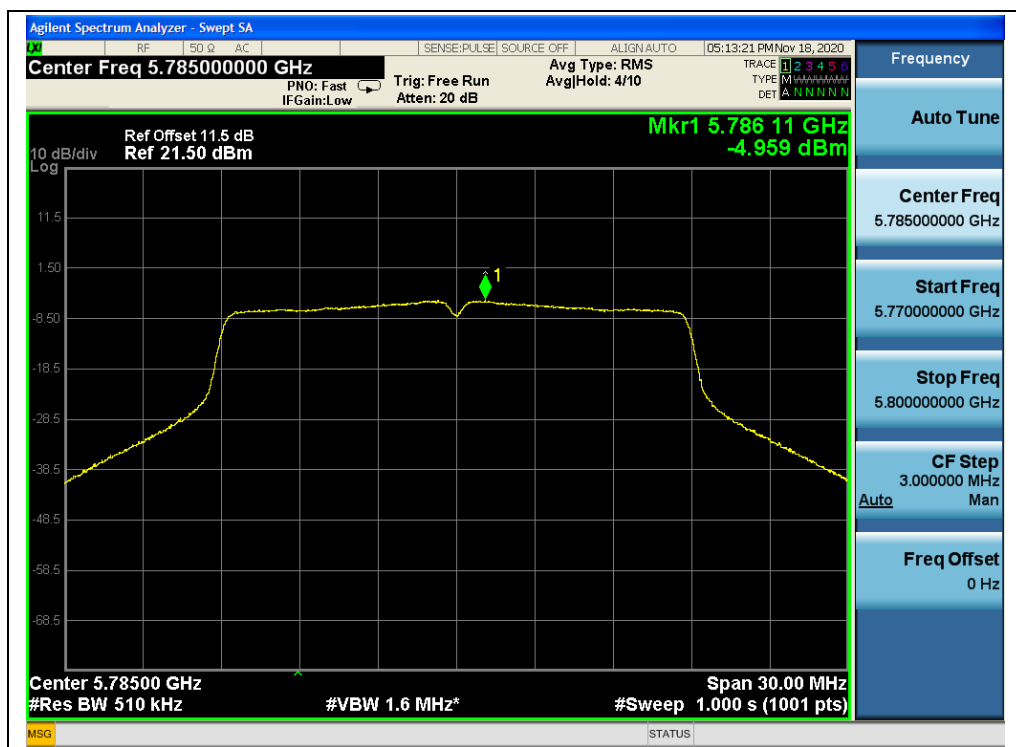
(Channel 144, 5720MHz, 802.11ac (VHT20), ANT1)



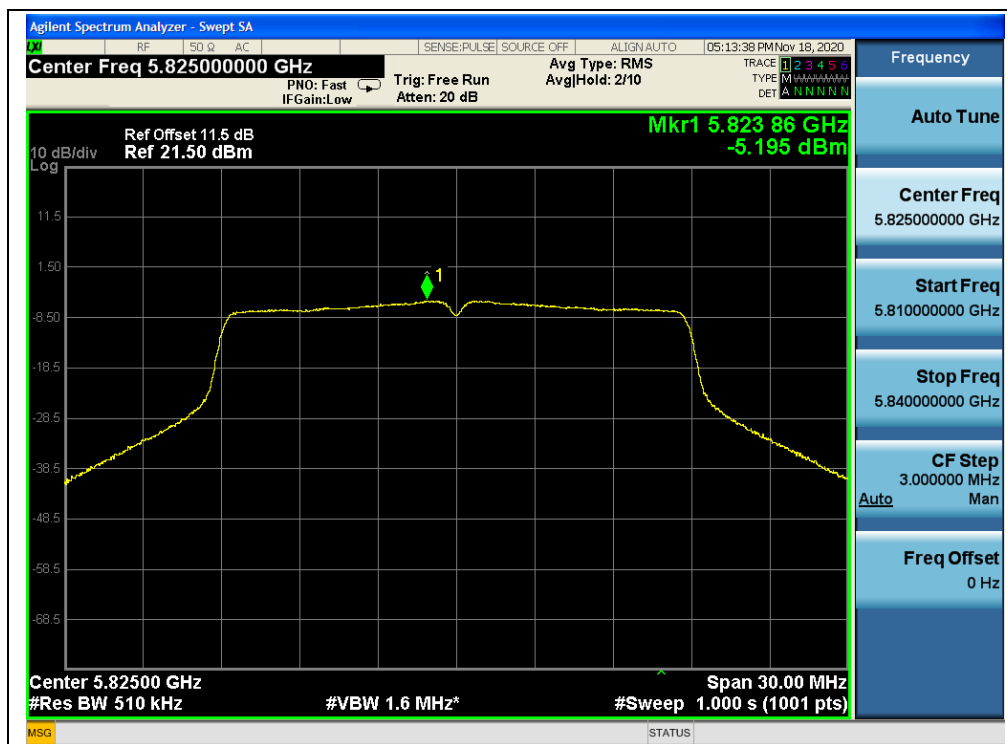
(Channel 144, 5720MHz, 802.11ac(VHT20), ANT1)



(Channel 149, 5745MHz, 802.11ac (VHT20), ANT1)



(Channel 157, 5785MHz, 802.11ac (VHT20), ANT1)



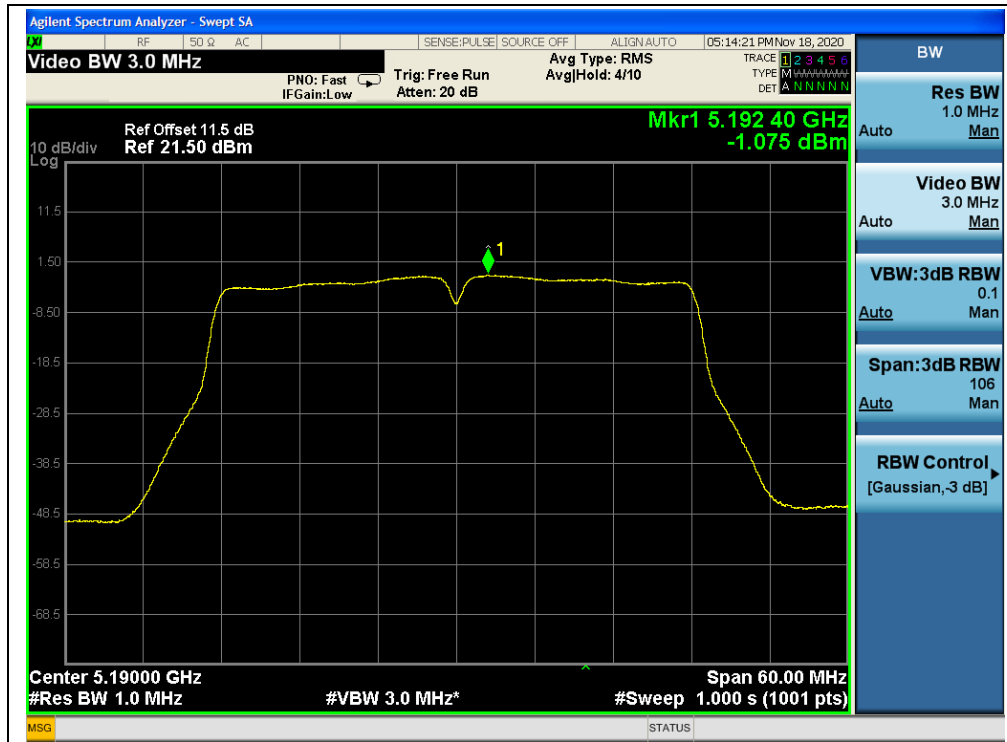
(Channel 165, 5825MHz, 802.11ac (VHT20), ANT1)

**802.11ac (VHT40) Mode****A.Test Verdict:**

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5190	-1.65	-1.08	0.16	1.81	11	PASS
5230	-1.47	-1.09		1.89		
5270	-1.46	-1.14		1.87		
5310	-1.22	-1.25		1.94		
5510	-1.66	-2.89		0.94		
5630	-1.44	-4.17		0.58		
5710	-0.95	-4.36		0.84		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5710	-3.67	-7.20	0.16	-1.92	30	PASS
5755	-3.57	-7.55		-1.95		
5795	-3.38	-7.83		-1.89		
Note: Directional gain = -0.14dBi +10log(2) =2.87dBi<6dBi, so the power limit shall be 11dBm for 5.18-5.24 GHz and 30dBm for 5.745-5.825 GHz band.						



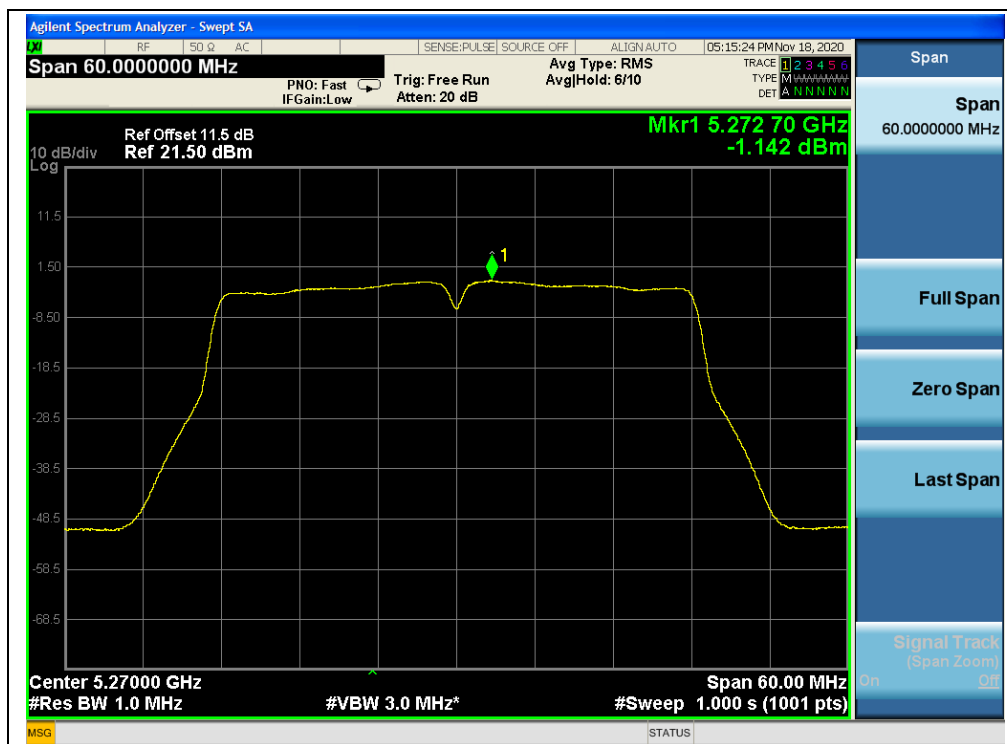
B.Test Plot:



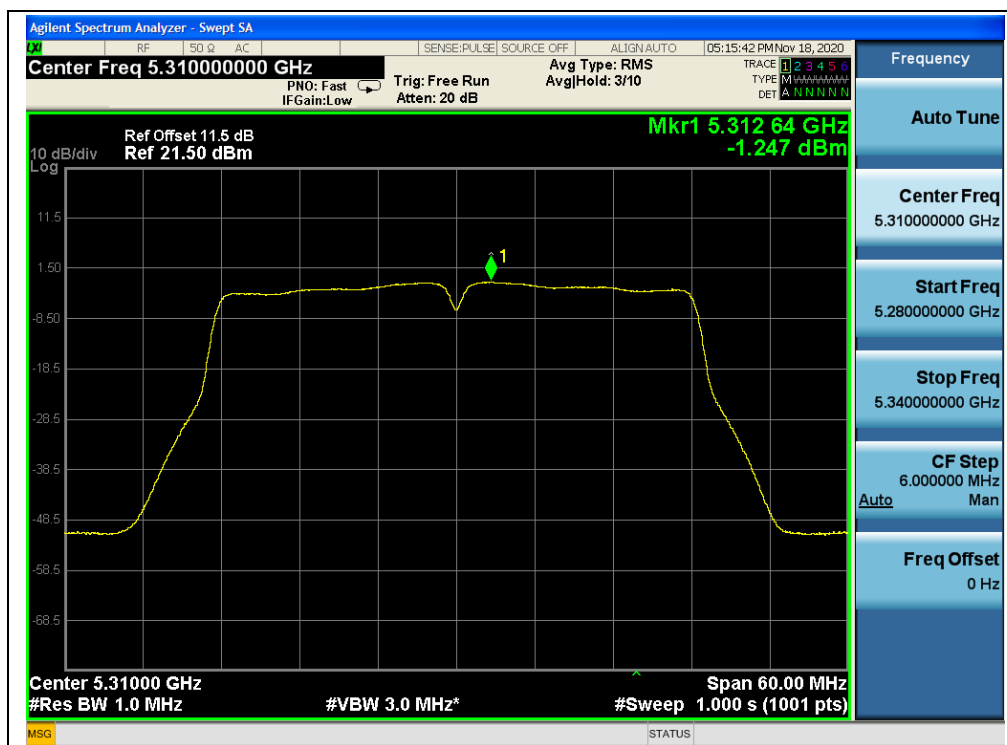
(Channel 38, 5190MHz, 802.11ac (VHT40), ANT1)



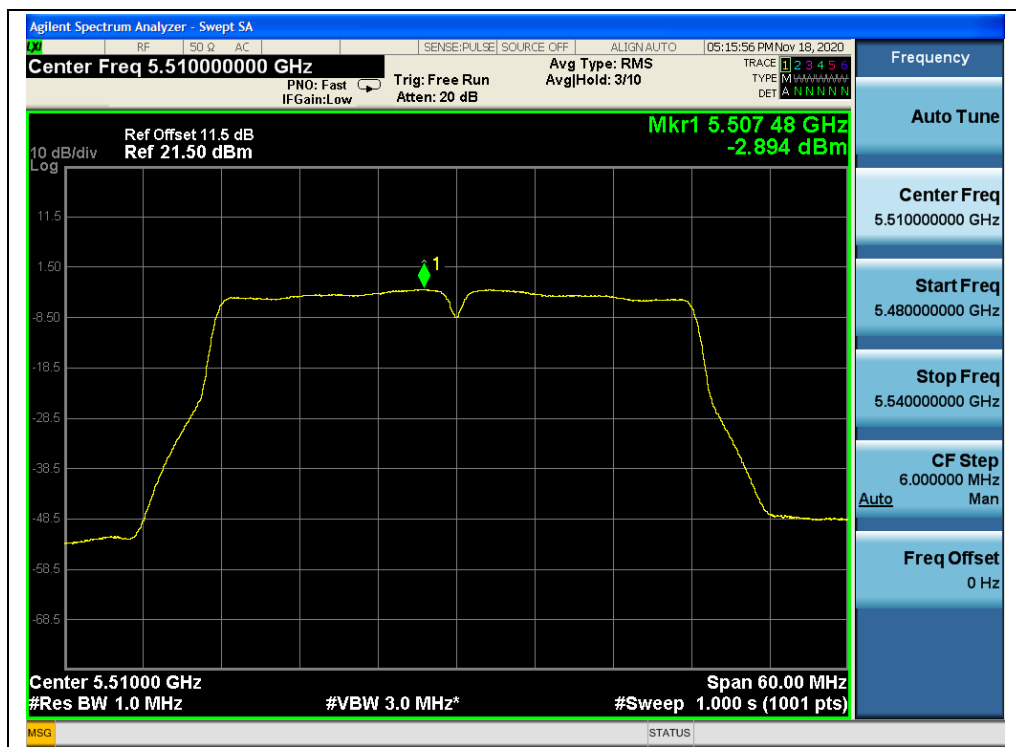
(Channel 46, 5230MHz, 802.11ac (VHT40), ANT1)



(Channel 54, 5270MHz, 802.11ac (VHT40), ANT1)



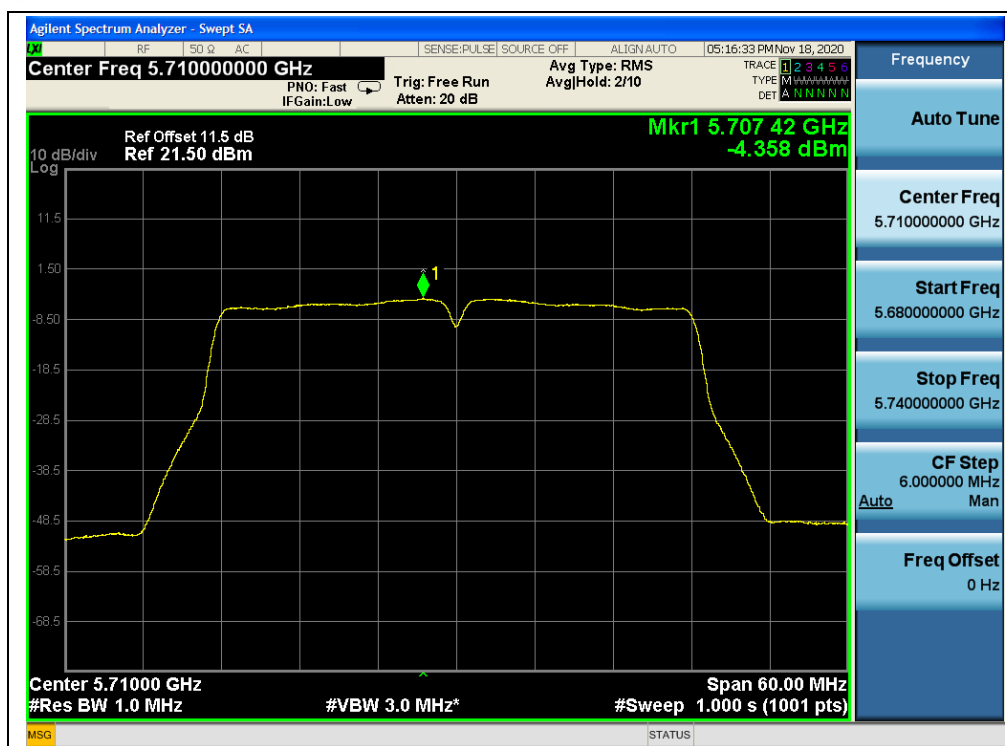
(Channel 62, 5310MHz, 802.11ac (VHT40), ANT1)



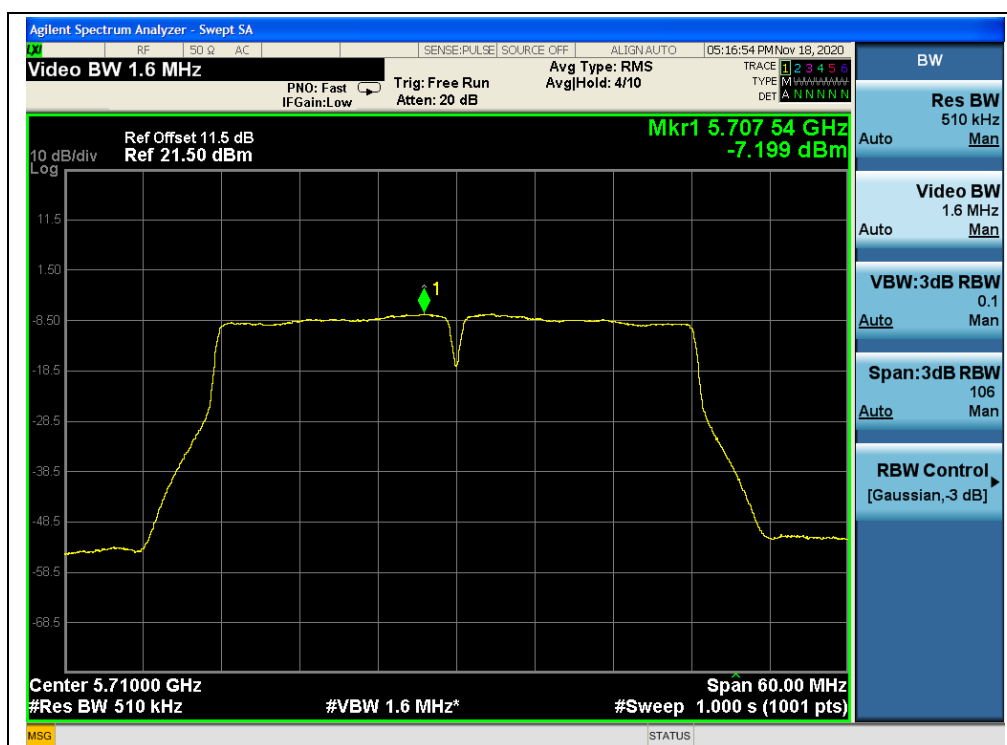
(Channel 102, 5510MHz, 802.11ac (VHT40), ANT1)



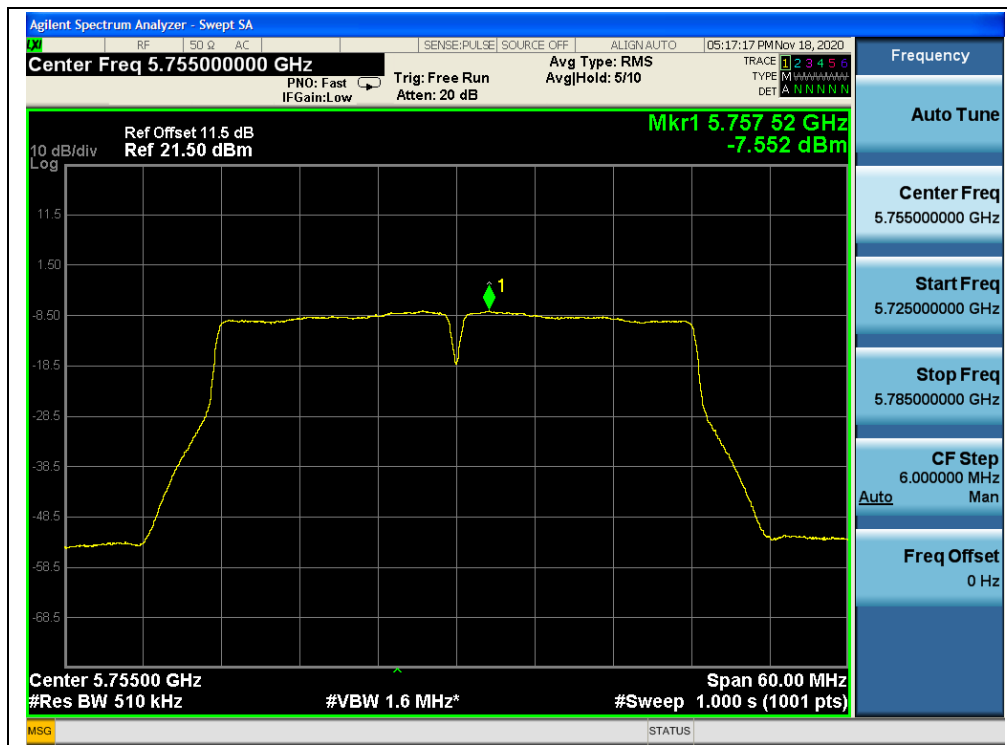
(Channel 126, 5630MHz, 802.11ac (VHT40), ANT1)



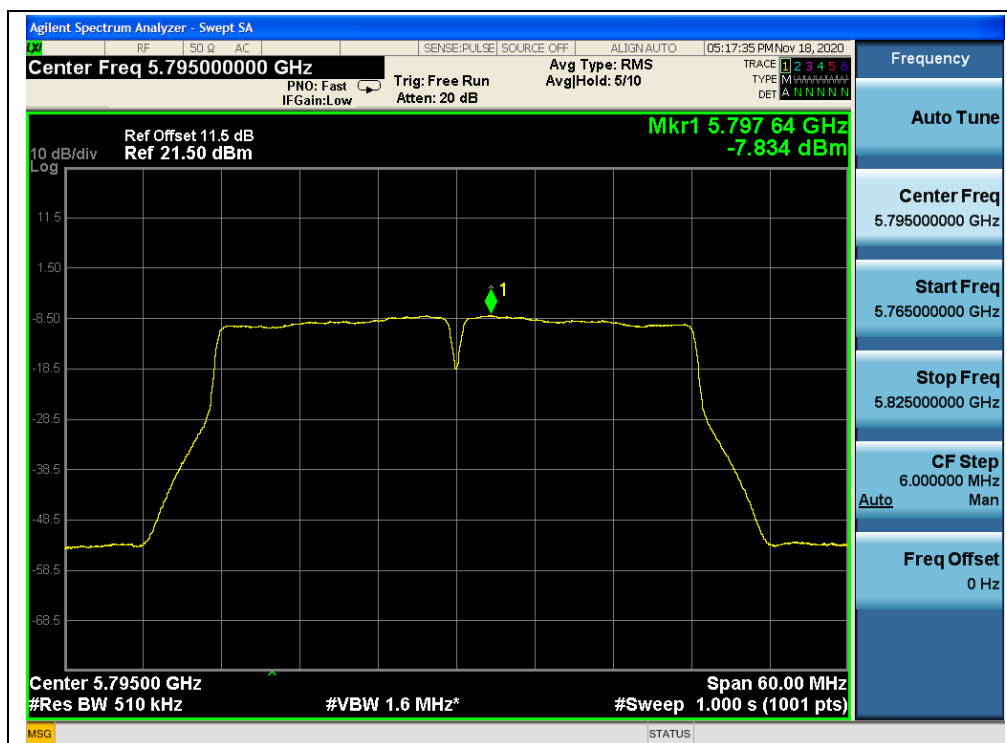
(Channel 142, 5710MHz, 802.11ac (VHT40) , ANT1)



(Channel 142, 5710MHz, 802.11ac (VHT40), ANT1)



(Channel 151, 5755MHz, 802.11ac (VHT40), ANT1)



(Channel 159, 5795MHz, 802.11ac (VHT40), ANT1)



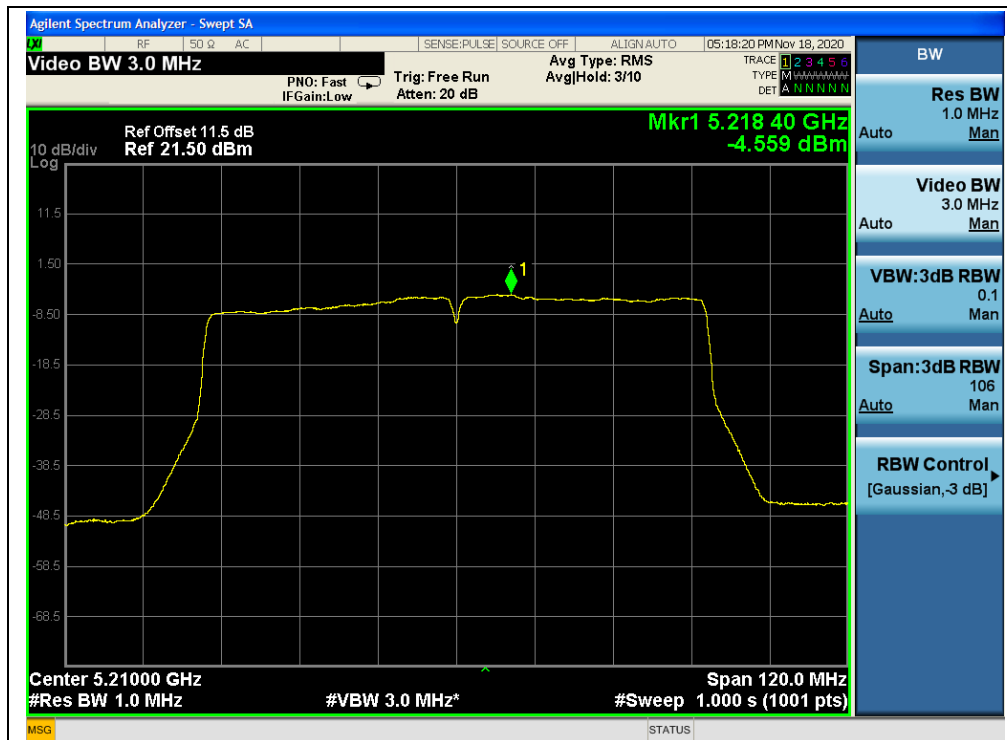
802.11ac (VHT80) Mode

A. Test Verdict:

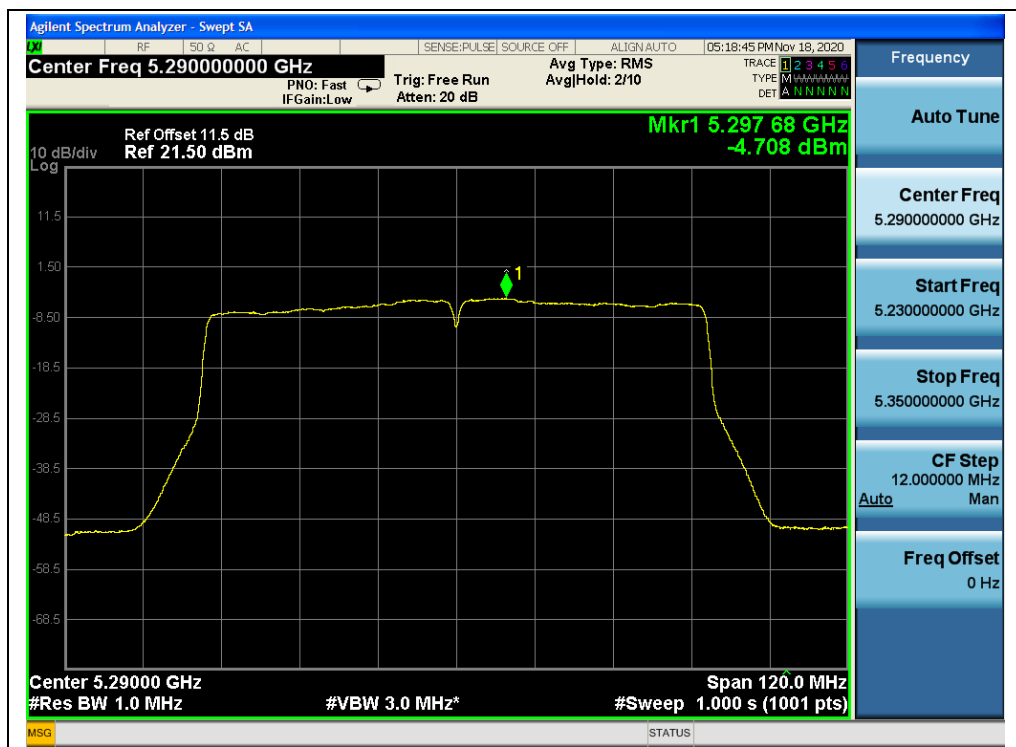
Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5210	-4.77	-4.56	0.36	-1.29	11	PASS
5290	-4.69	-4.71		-1.33		
5530	-5.17	-6.68		-2.49		
5610	-5.10	-7.69		-2.83		
5690	-4.35	-7.66		-2.33		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5690	-7.08	-10.37	0.36	-5.05	30	PASS
5775	-6.86	-11.30		-5.17		

Note: Directional gain = $-0.14\text{dBi} + 10\log(2) = 2.87\text{dBi} < 6\text{dBi}$, so the power limit shall be 11dBm for 5.18-5.24 GHz and 30dBm for 5.745-5.825 GHz band.

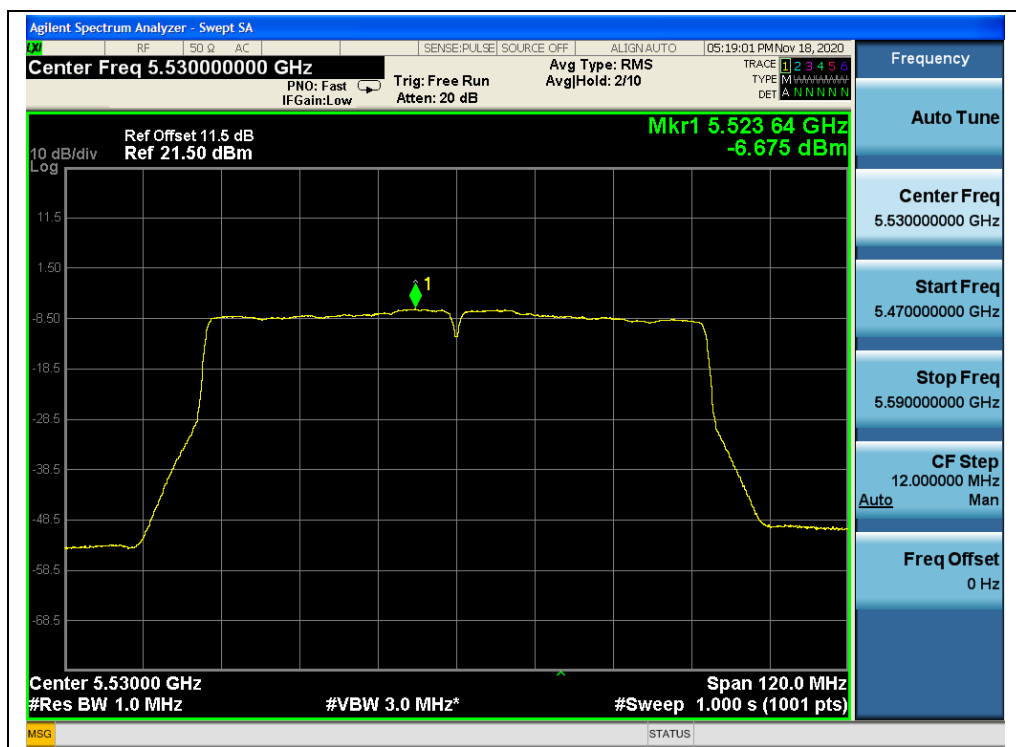
B. Test Plot:



(Channel 42, 5210MHz, 802.11ac (VHT80), ANT1)



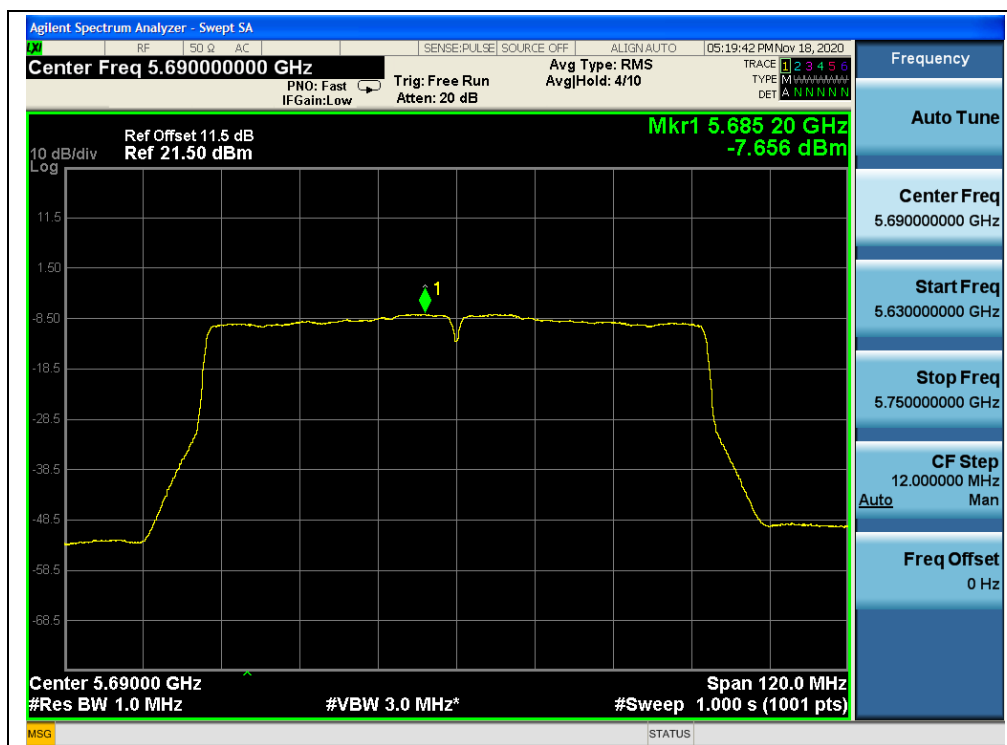
(Channel 58, 5290MHz, 802.11ac (VHT80), ANT1)



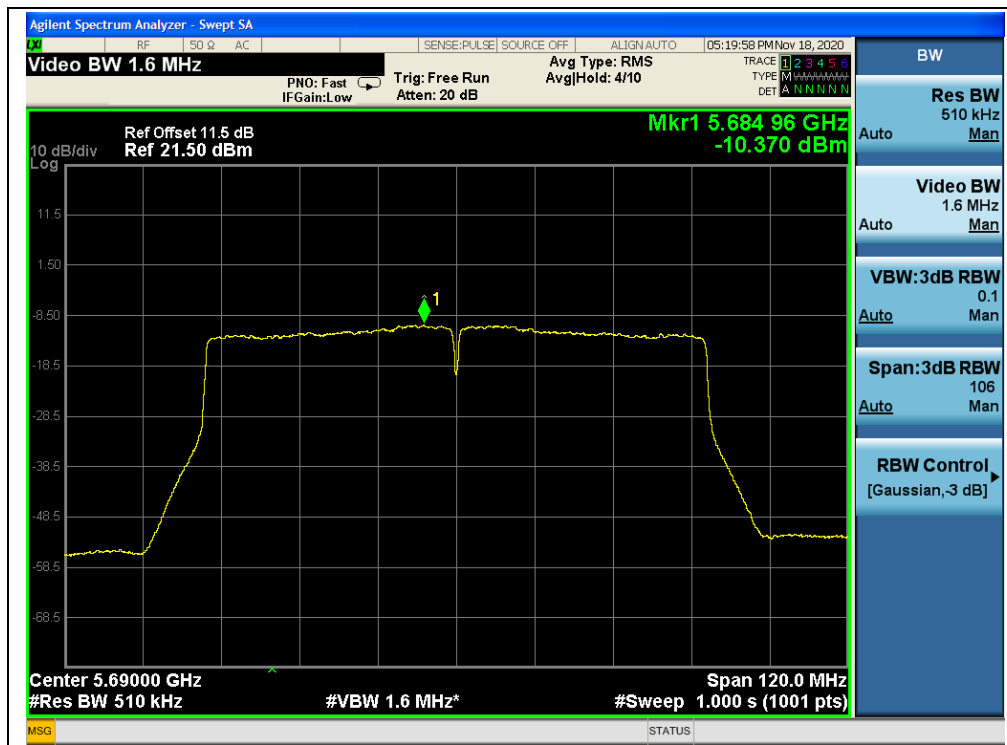
(Channel 106, 5530MHz, 802.11ac (VHT80), ANT1)



(Channel 122, 5610MHz, 802.11ac (VHT80), ANT1)



(Channel 138, 5690MHz, 802.11ac (VHT80), ANT1)



(Channel 138, 5690MHz, 802.11ac (VHT80), ANT1)



(Channel 155, 5775MHz, 802.11ac (VHT80), ANT1)



2.6. Frequency Stability

2.6.1. Requirement

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

2.6.2. Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 5°C to 40°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

2.6.3. Test Result

U-NII-1 (Ch. 36) 5180MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	3.7	+20(Ref)	18	3.475
100%		-30	22	4.247
100%		-20	25	4.826
100%		-10	27	5.212
100%		0	19	3.668
100%		+10	17	3.282
100%		+20	21	4.054
100%		+30	26	5.019
100%		+40	30	5.792
100%		+50	25	4.826
115%	4.3	+20	19	3.668
85%	3.1	+20	21	4.054



U-NII-2A (Ch. 52)				
5260MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	3.7	+20(Ref)	18	3.422
100%		-30	22	4.183
100%		-20	25	4.753
100%		-10	27	5.133
100%		0	19	3.612
100%		+10	17	3.232
100%		+20	21	3.992
100%		+30	26	4.943
100%		+40	30	5.703
100%		+50	25	4.753
115%	4.3	+20	19	3.612
85%	3.1	+20	21	3.992

U-NII-2C (Ch. 100)				
5500MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	3.7	+20(Ref)	23	4.182
100%		-30	24	4.364
100%		-20	30	5.455
100%		-10	26	4.727
100%		0	25	4.545
100%		+10	22	4.000
100%		+20	22	4.000
100%		+30	23	4.182
100%		+40	26	4.727
100%		+50	23	4.182
115%	4.3	+20	28	5.091
85%	3.1	+20	30	5.455



U-NII-3 (Ch. 149) 5745MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	3.7	+20(Ref)	21	3.818
100%		-30	25	4.545
100%		-20	30	5.455
100%		-10	29	5.273
100%		0	22	4.000
100%		+10	19	3.455
100%		+20	23	4.182
100%		+30	32	5.818
100%		+40	35	6.364
100%		+50	25	4.545
115%	4.3	+20	27	4.909
85%	3.1	+20	30	5.455

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

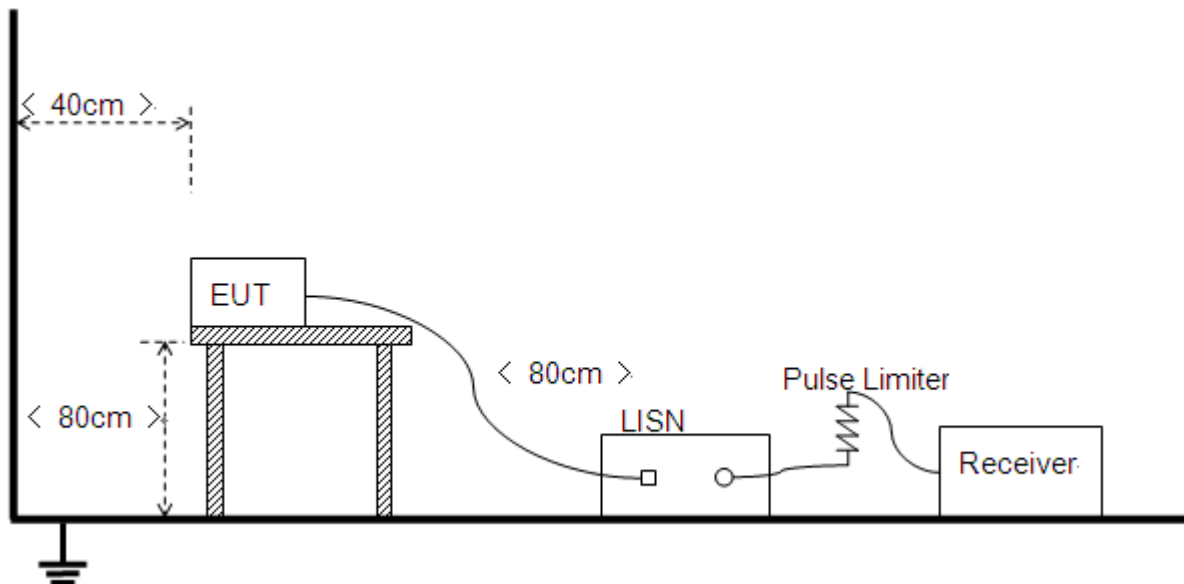
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.



2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and Plot below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+ ADAPTER+ Earphone + WIFI TX

Test Voltage: AC 120V/60Hz

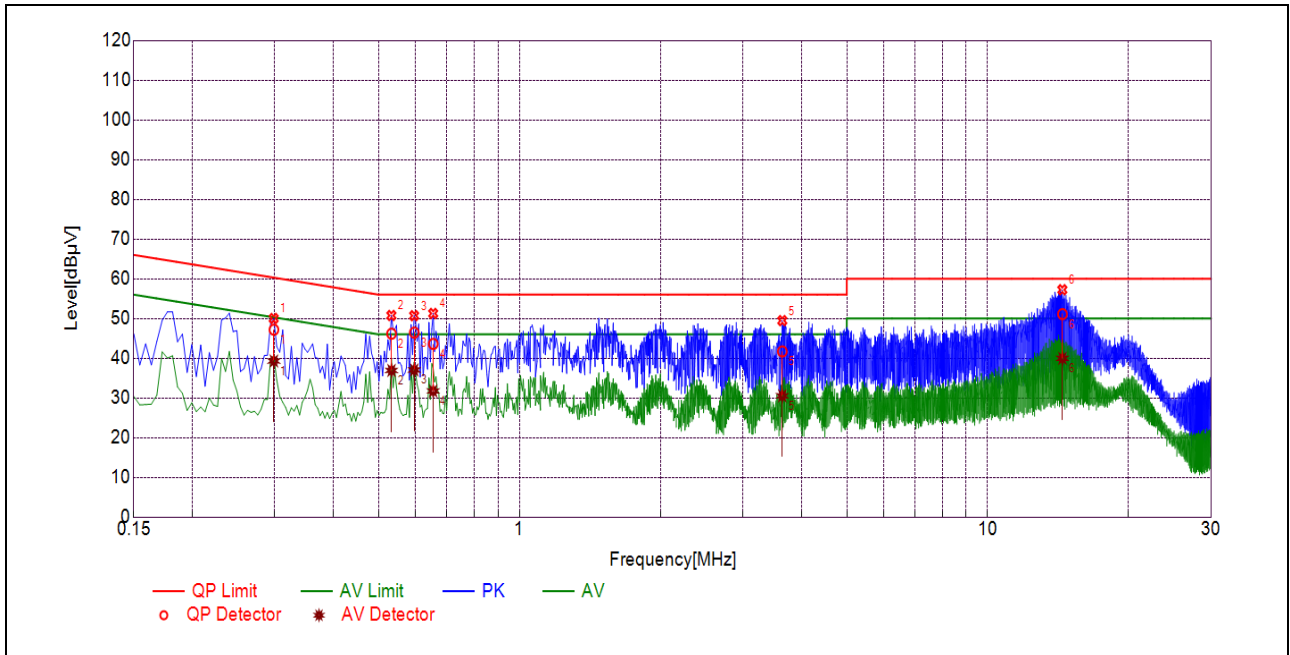
The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V}] = U_R + L_{\text{Cable loss}} [\text{dB}] + A_{\text{Factor}}$$

U_R : Receiver Reading

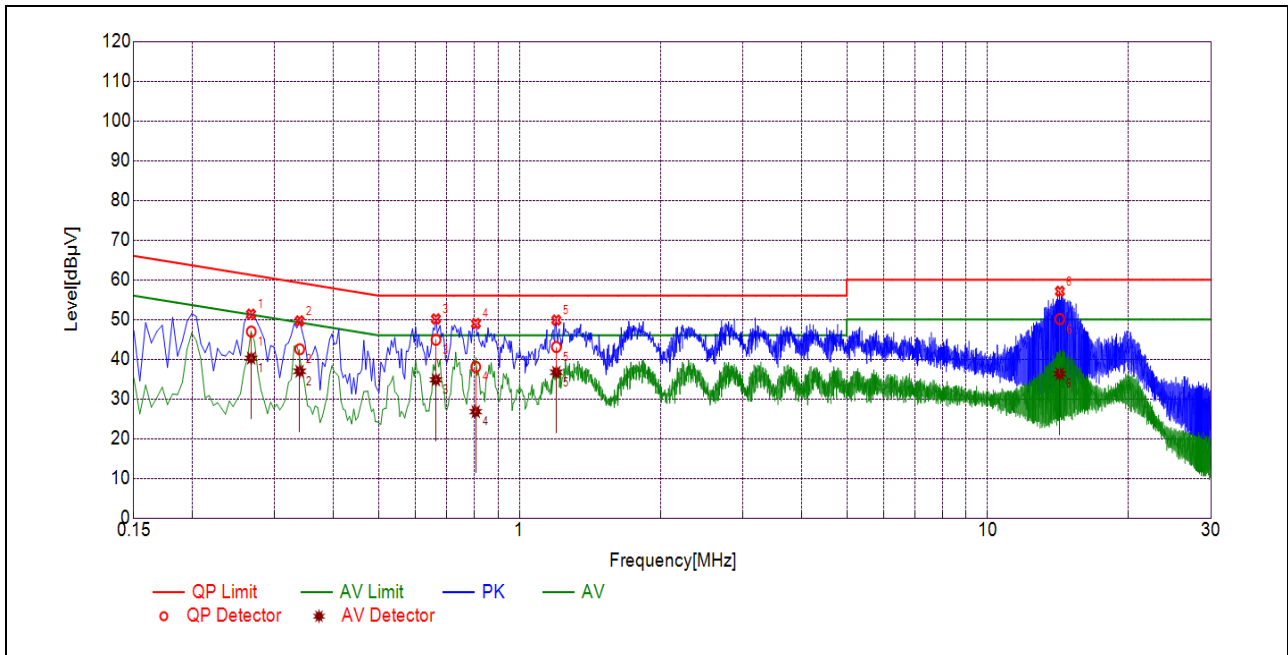
A_{Factor} : Voltage division factor of LISN

B.Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2988	47.18	39.28	60.28	50.28	Line	PASS
2	0.5328	46.17	36.91	56.00	46.00		PASS
3	0.5959	46.45	37.03	56.00	46.00		PASS
4	0.6540	43.61	31.74	56.00	46.00		PASS
5	3.6414	41.72	30.53	56.00	46.00		PASS
6	14.4462	51.11	39.96	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2672	46.96	40.26	61.21	51.21	Neutral	PASS
2	0.3391	42.51	36.96	59.23	49.23		PASS
3	0.6629	44.91	34.81	56.00	46.00		PASS
4	0.8063	38.08	26.80	56.00	46.00		PASS
5	1.1985	43.08	36.69	56.00	46.00		PASS
6	14.2563	50.09	36.33	60.00	50.00		PASS

2.8. Restricted Frequency Bands

2.8.1. Requirement

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

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

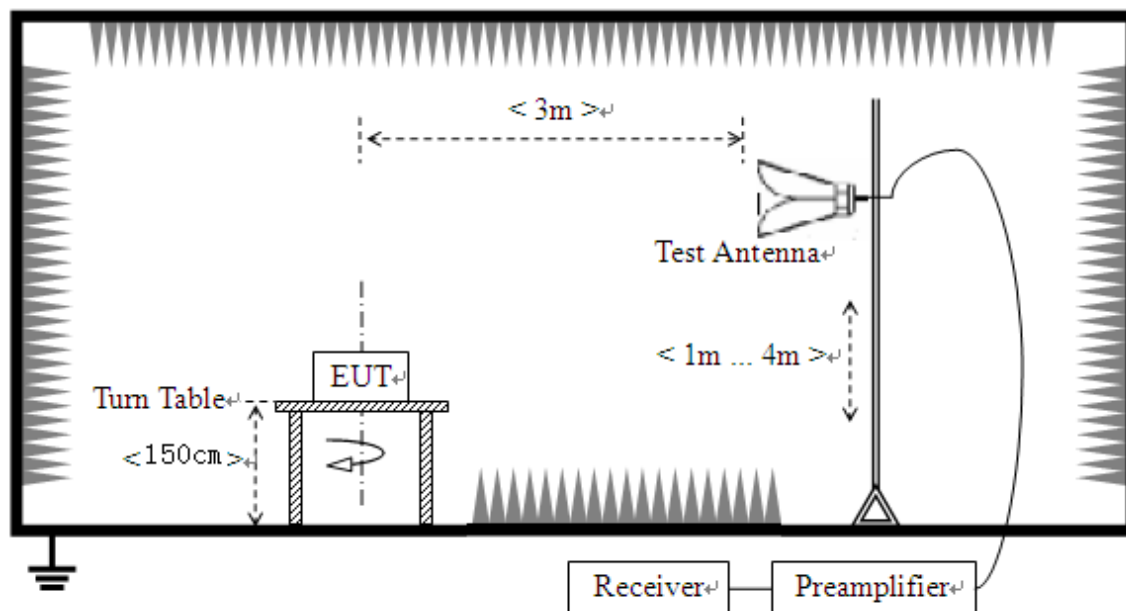
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

2.8.2.Test Description

Test Setup





The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

KDB 789033 Section H) 3)5)6(d)) was used in order to prove compliance

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.8.3.Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna; U_R : Receiver Reading

G_{preamp} : Preamplifier Gain; A_{Factor} : Antenna Factor at 3m

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

Note 2 All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

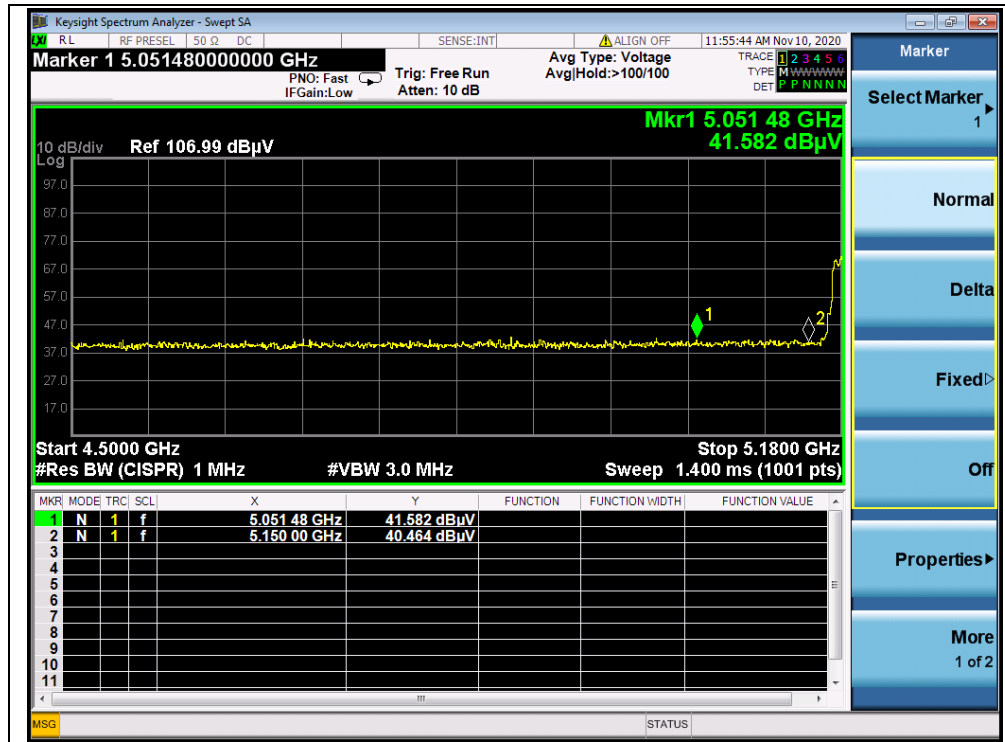
802.11a Mode

A.Test Verdict:

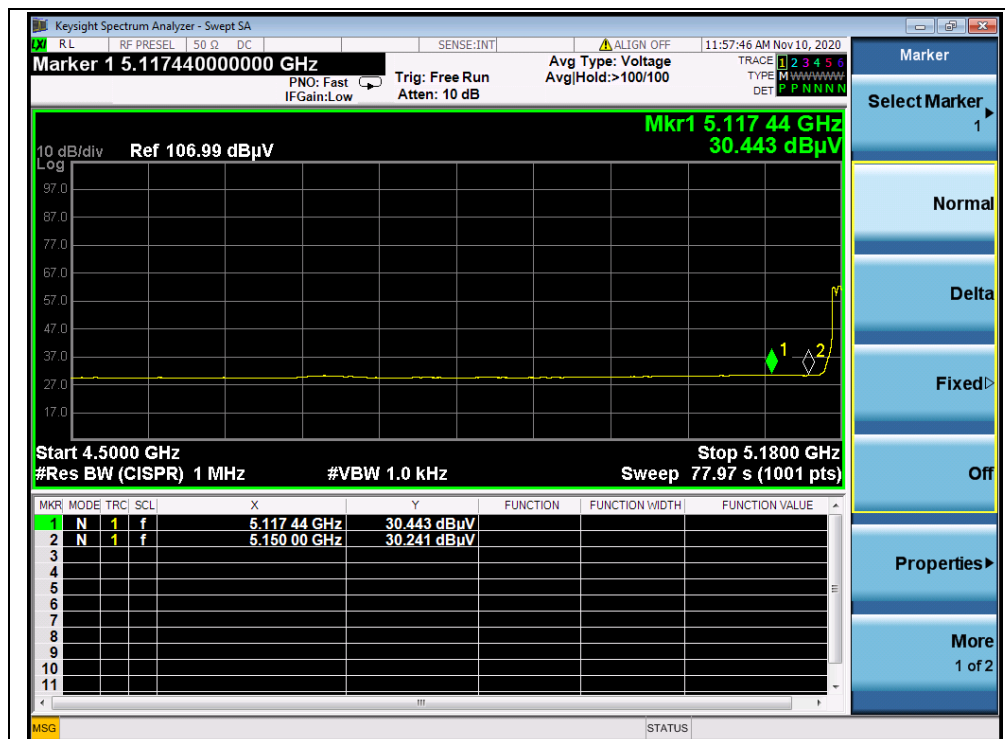
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5051.48	PK	41.58	-16.92	32.20	56.86	74	PASS
36	5117.44	AV	30.44	-16.92	32.20	45.72	54	PASS
64	5364.25	PK	39.24	-16.80	32.20	54.64	74	PASS
64	5355.71	AV	28.49	-16.80	32.20	43.89	54	PASS
100	5446.50	PK	40.17	-16.64	32.20	55.73	74	PASS
100	5470.00	AV	29.23	-16.64	32.20	44.79	54	PASS
144	5743.70	PK	41.57	-16.64	32.20	57.13	68.23	PASS
144	5725.00	AV	30.10	-16.64	32.20	45.66	54	PASS
149	5700.00	PK	39.37	-16.23	32.20	55.34	105.23	PASS
165	5855.00	PK	39.97	-16.23	32.20	55.94	110.83	PASS



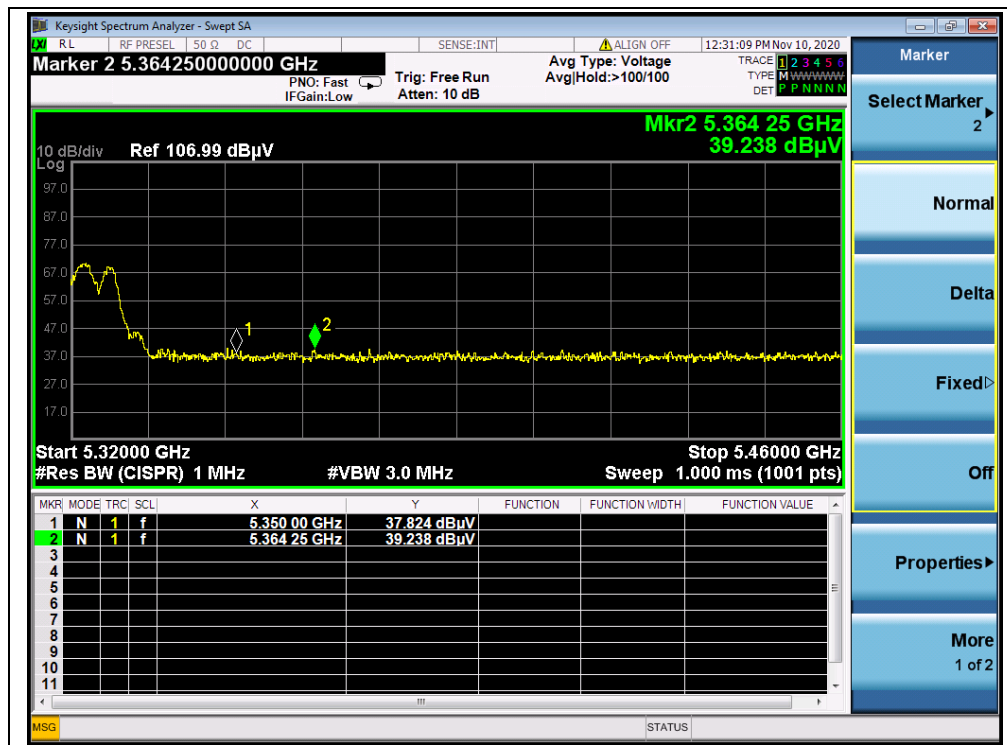
B.Test Plot:



(PEAK, Channel 36, 802.11a)



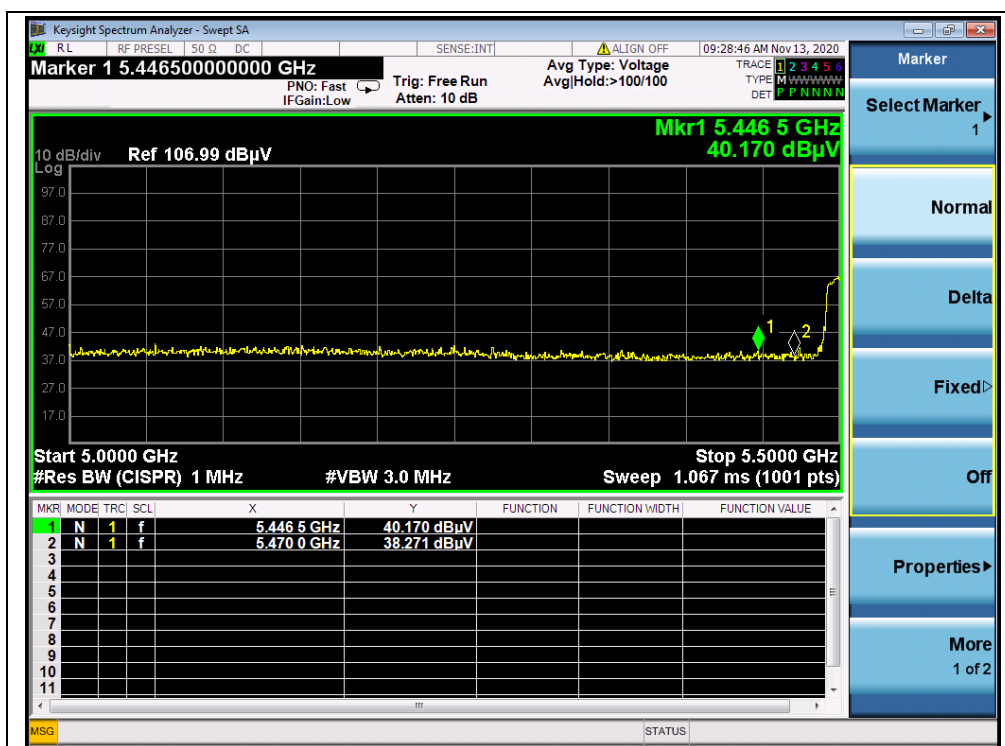
(AVERAGE, Channel 36, 802.11a)



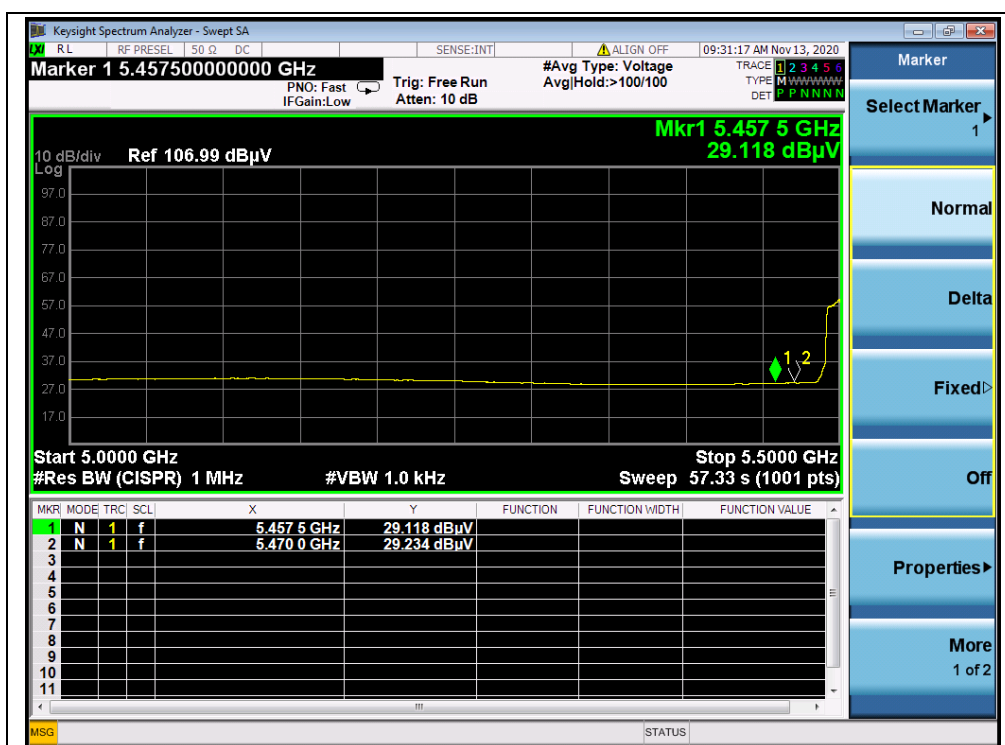
(PEAK, Channel 64, 802.11a)



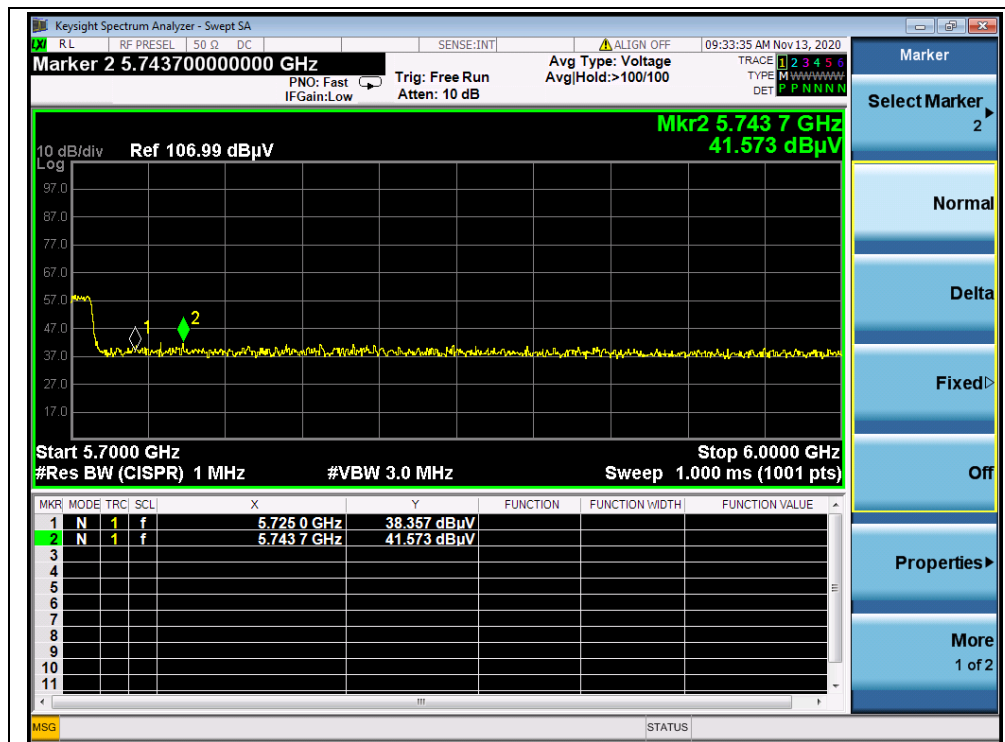
(AVERAGE, Channel 64, 802.11a)



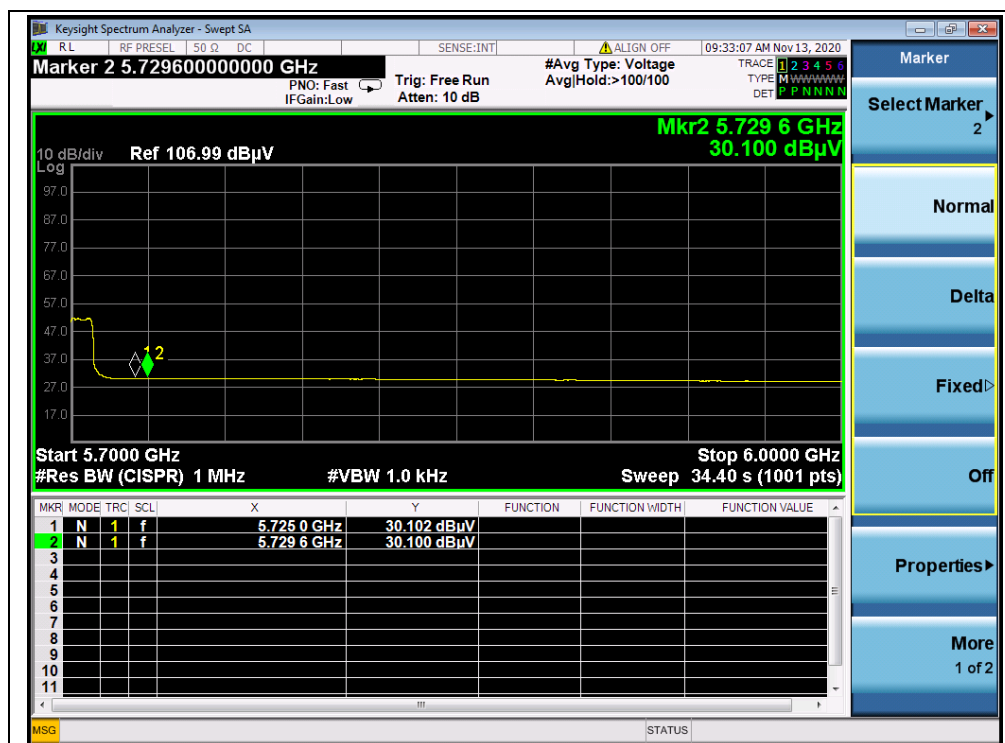
(PEAK, Channel100, 802.11a)



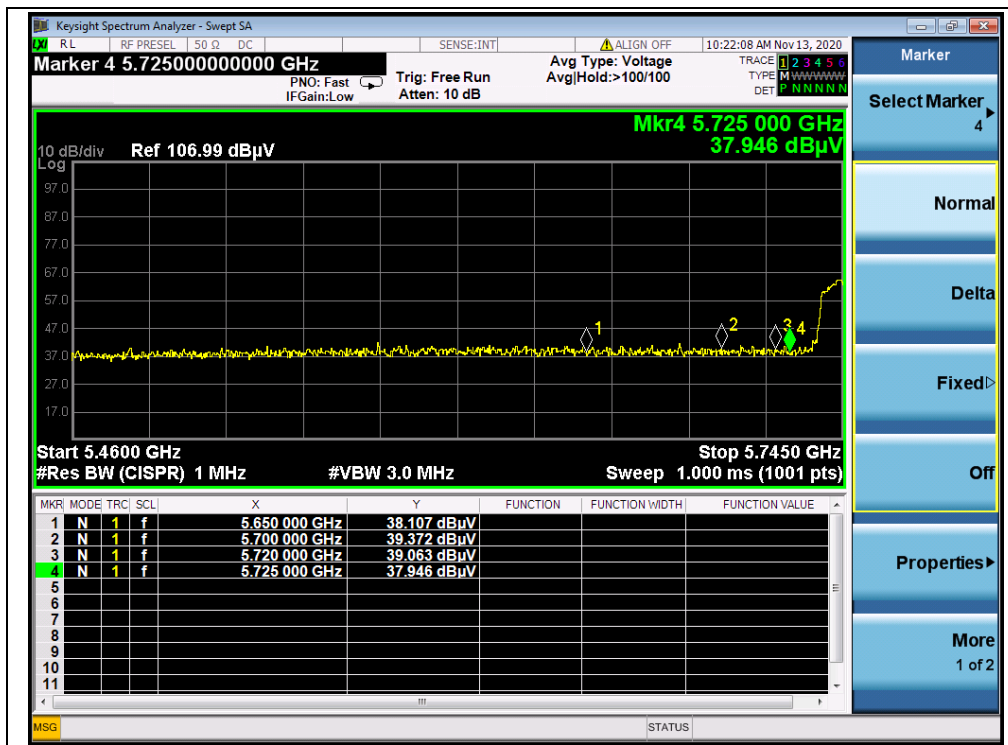
(AVERAGE, Channel 100, 802.11a)



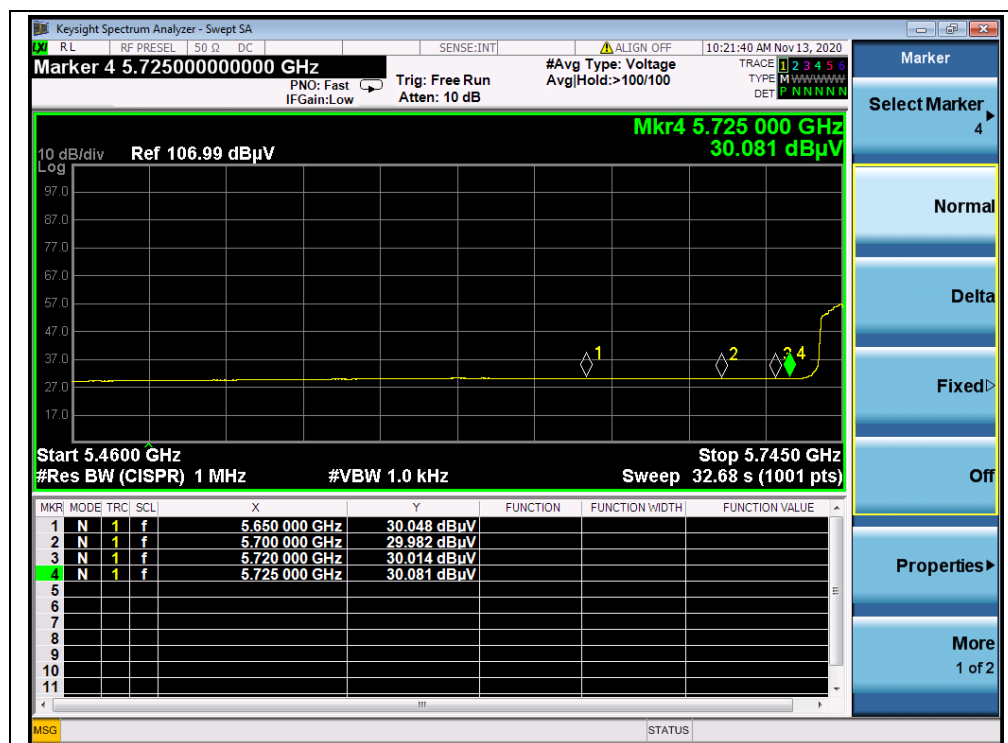
(PEAK, Channel 144, 802.11a)



(AVERAGE, Channel 144, 802.11a)



(PEAK, Channel 149, 802.11a)



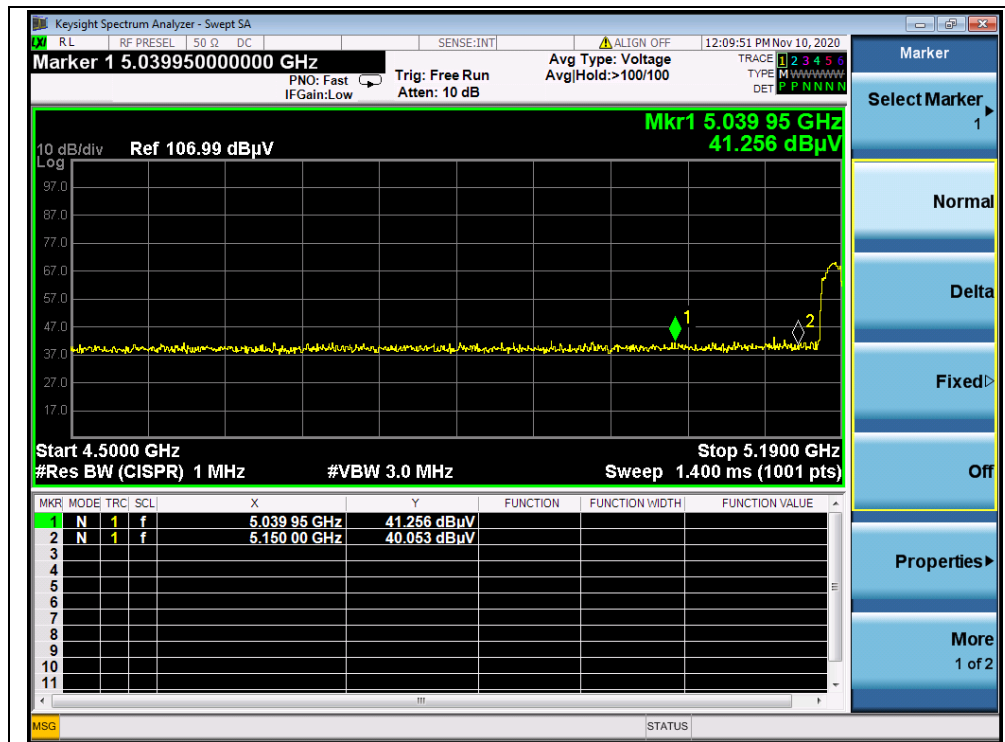
(PEAK, Channel 165, 802.11a)

**802.11n (HT40) Mode****A.Test Verdict:**

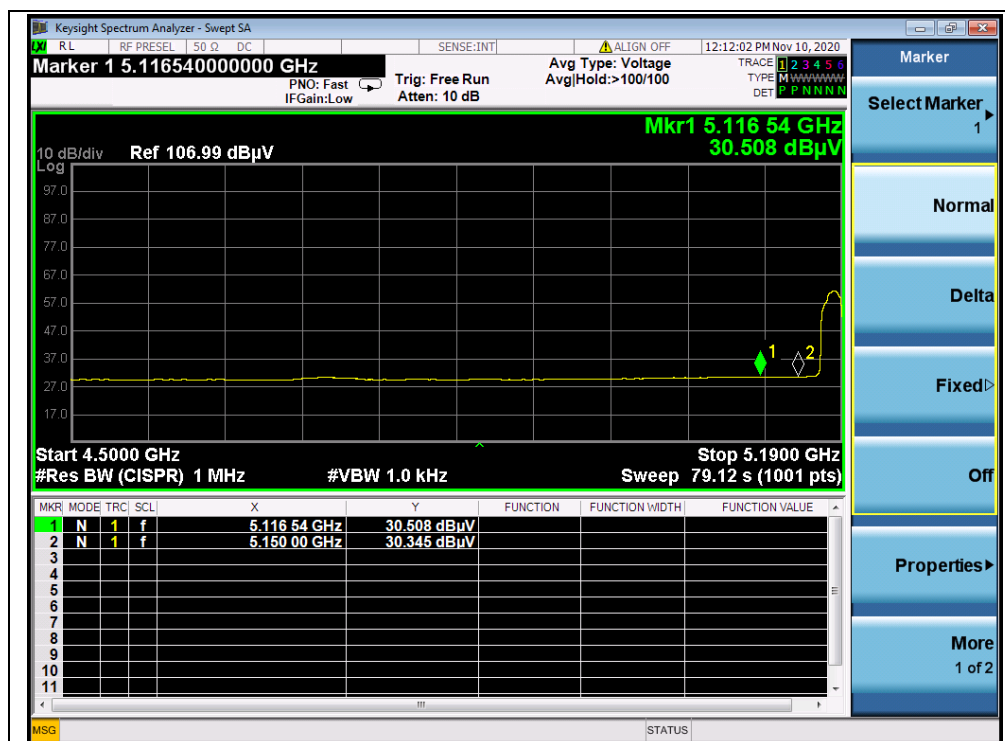
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5039.95	PK	41.26	-16.92	32.20	56.54	74	PASS
38	5116.54	AV	30.51	-16.92	32.20	45.79	54	PASS
62	5354.30	PK	38.99	-16.80	32.20	54.39	74	PASS
62	5354.45	AV	28.66	-16.80	32.20	44.06	54	PASS
102	5448.80	PK	40.06	-16.64	32.20	55.62	74	PASS
102	5470.00	AV	29.24	-16.64	32.20	44.80	54	PASS
142	5735.33	PK	41.45	-16.64	32.20	57.01	68.23	PASS
142	5737.64	AV	30.21	-16.64	32.20	45.77	54	PASS
151	5650.00	PK	40.33	-16.23	32.20	56.30	68.23	PASS
159	5850.00	PK	39.23	-16.23	32.20	55.20	122.23	PASS



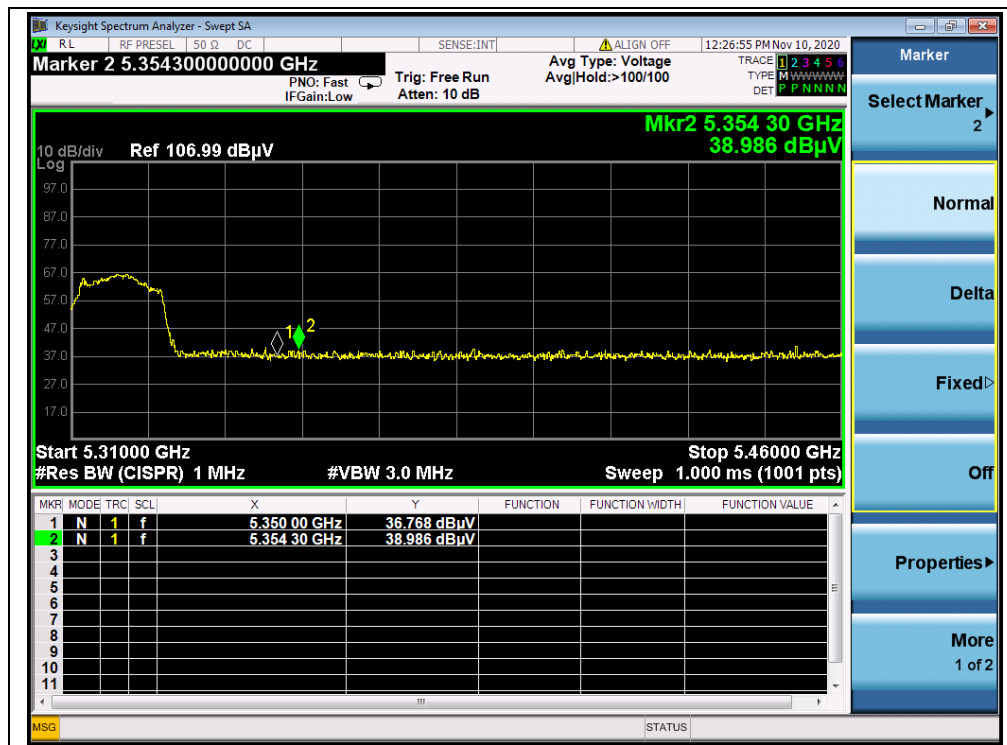
B.Test Plot:



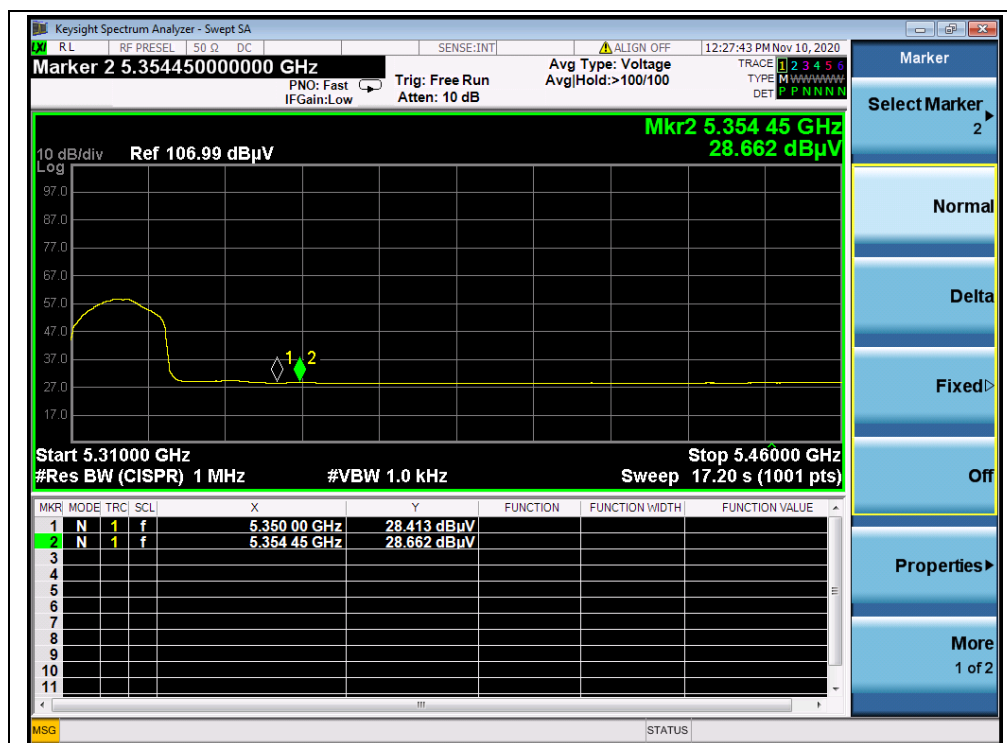
(PEAK, Channel 38, 802.11n (HT40))



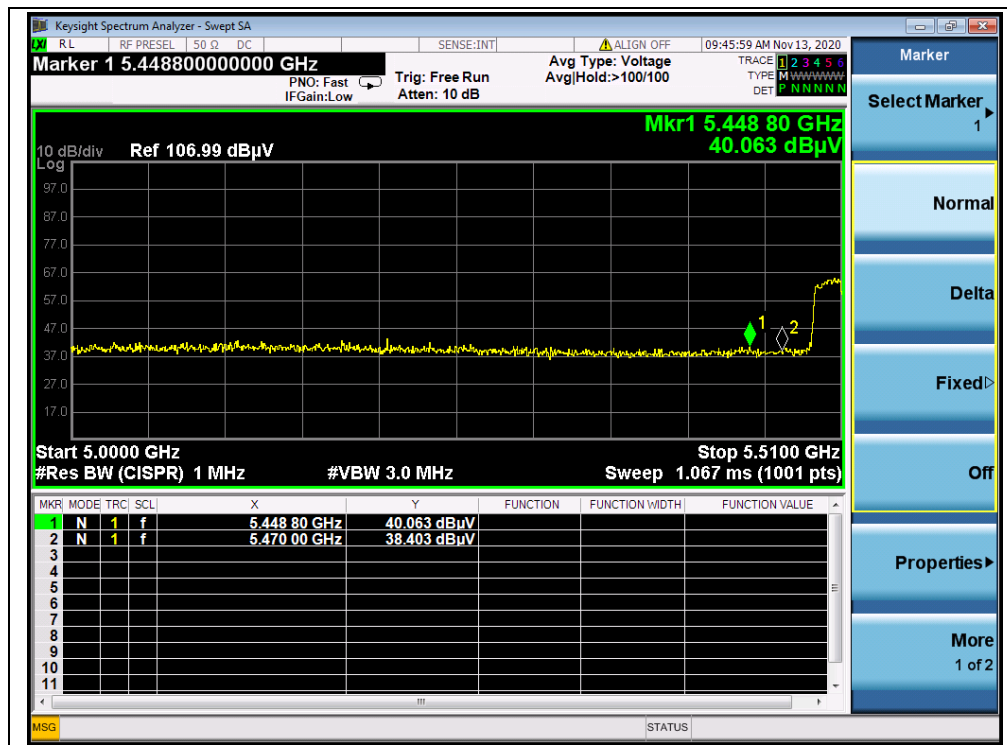
(AVERAGE, Channel 38, 802.11n (HT40))



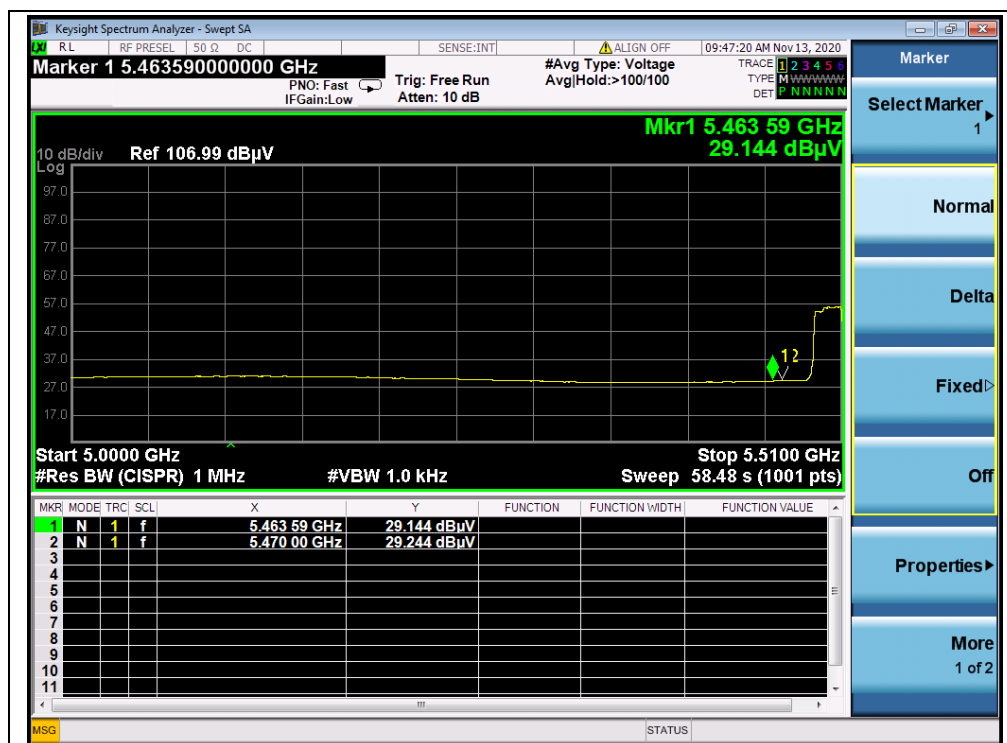
(PEAK, Channel 62, 802.11n (HT40))



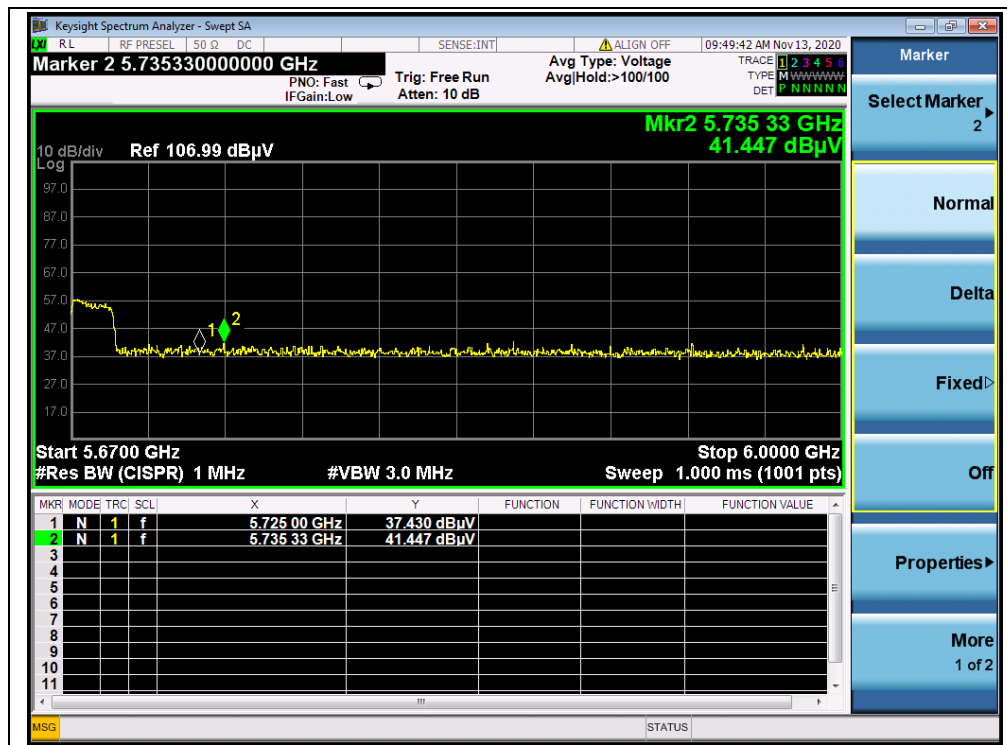
(AVERAGE, Channel 62, 802.11n (HT40))



(PEAK, Channel 102, 802.11n (HT40))



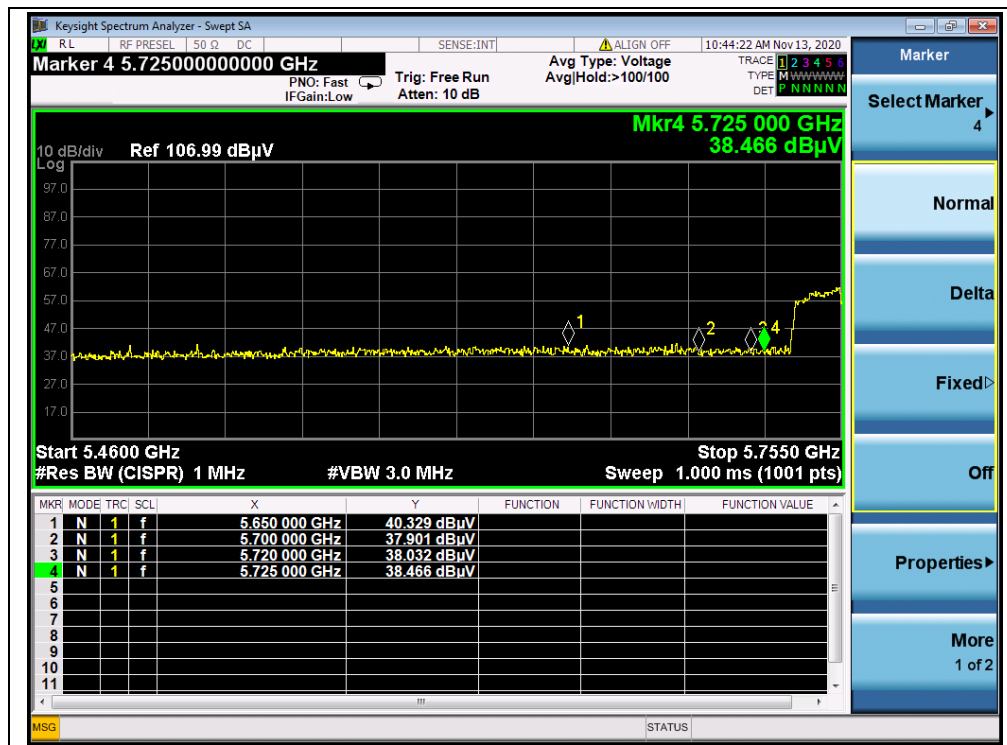
(AVERAGE, Channel 102, 802.11n (HT40))



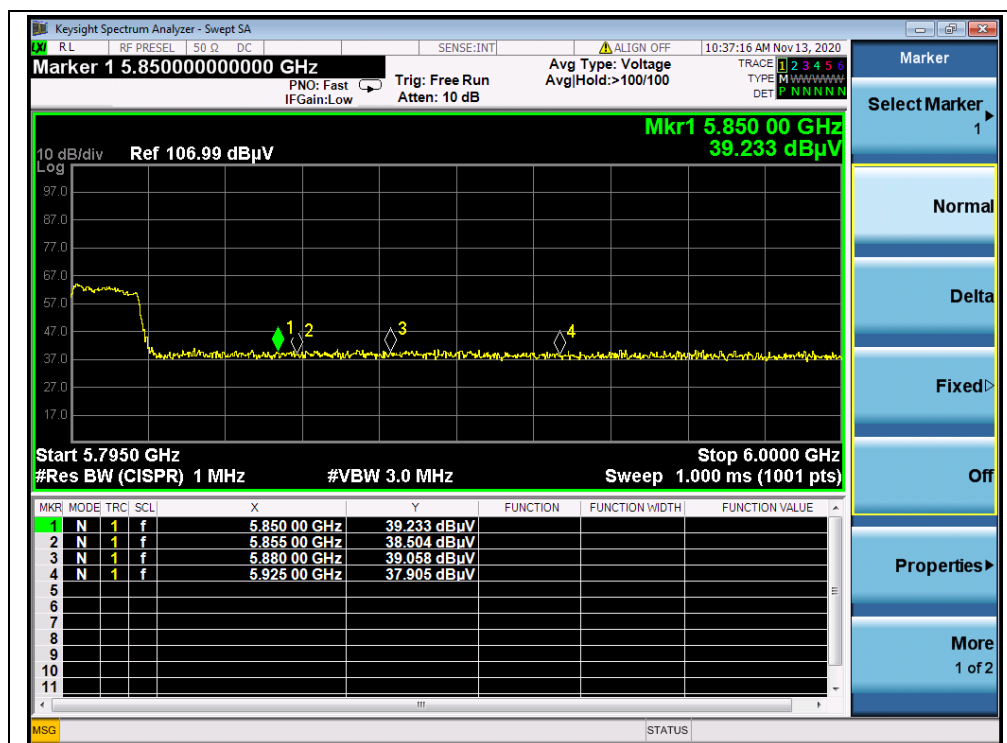
(PEAK, Channel 142, 802.11n (HT40))



(AVERAGE, Channel 142, 802.11n (HT40))



(PEAK, Channel 151, 802.11n (HT40))



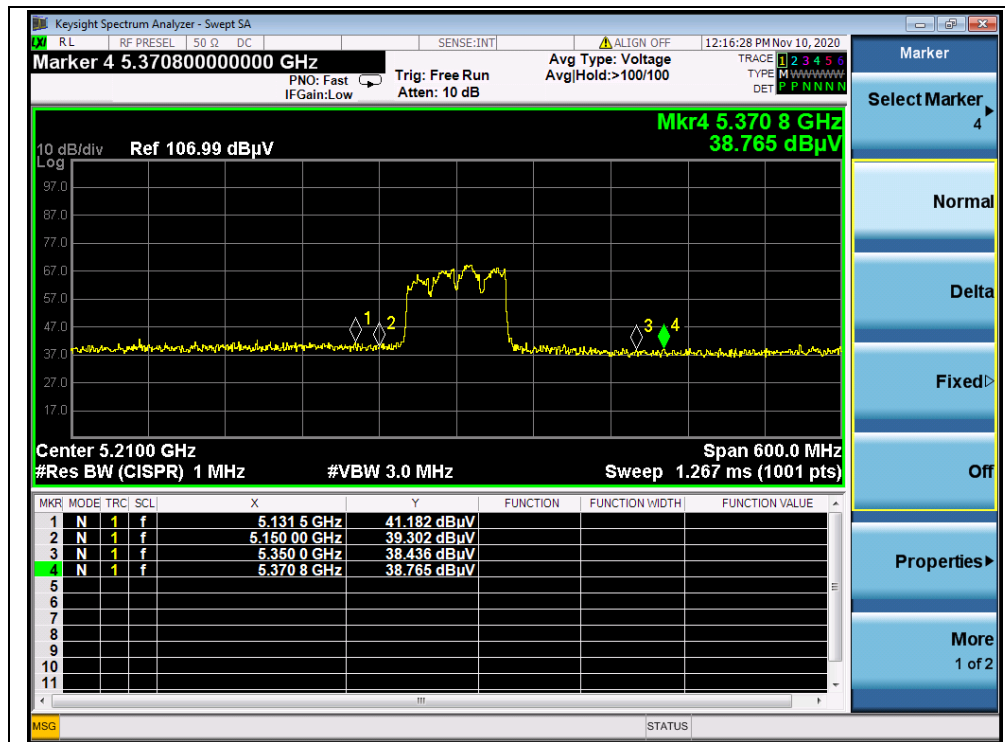
(PEAK, Channel 159, 802.11n (HT40))

**802.11ac (VHT80) Mode****A.Test Verdict:**

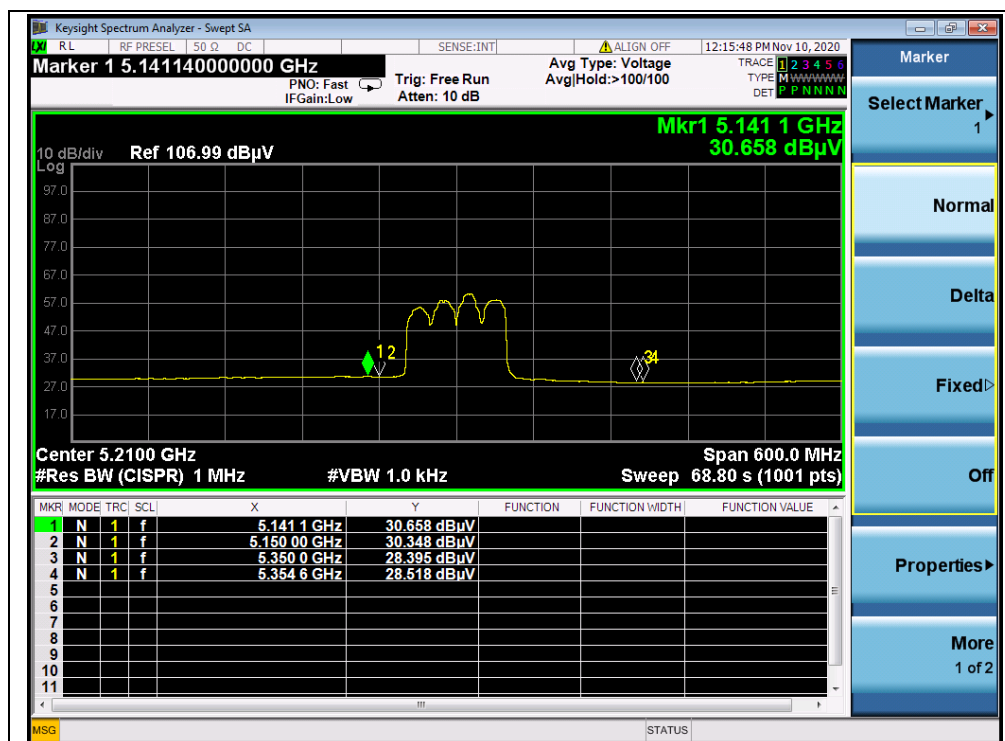
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
42	5131.50	PK	41.18	-16.92	32.20	56.46	74	PASS
42	5141.10	AV	30.66	-16.92	32.20	45.94	54	PASS
58	5144.10	PK	41.93	-16.80	32.20	57.33	74	PASS
58	5141.70	AV	30.43	-16.80	32.20	45.83	54	PASS
106	5448.91	PK	40.12	-16.64	32.20	55.68	74	PASS
106	5470.00	AV	29.19	-16.64	32.20	44.75	54	PASS
138	5759.57	PK	41.67	-16.64	32.20	57.23	68.23	PASS
138	5737.34	AV	30.15	-16.64	32.20	45.71	54	PASS
155	5646.00	PK	43.04	-16.23	32.20	59.01	68.23	PASS
155	5981.20	PK	39.78	-16.23	32.20	55.75	68.23	PASS



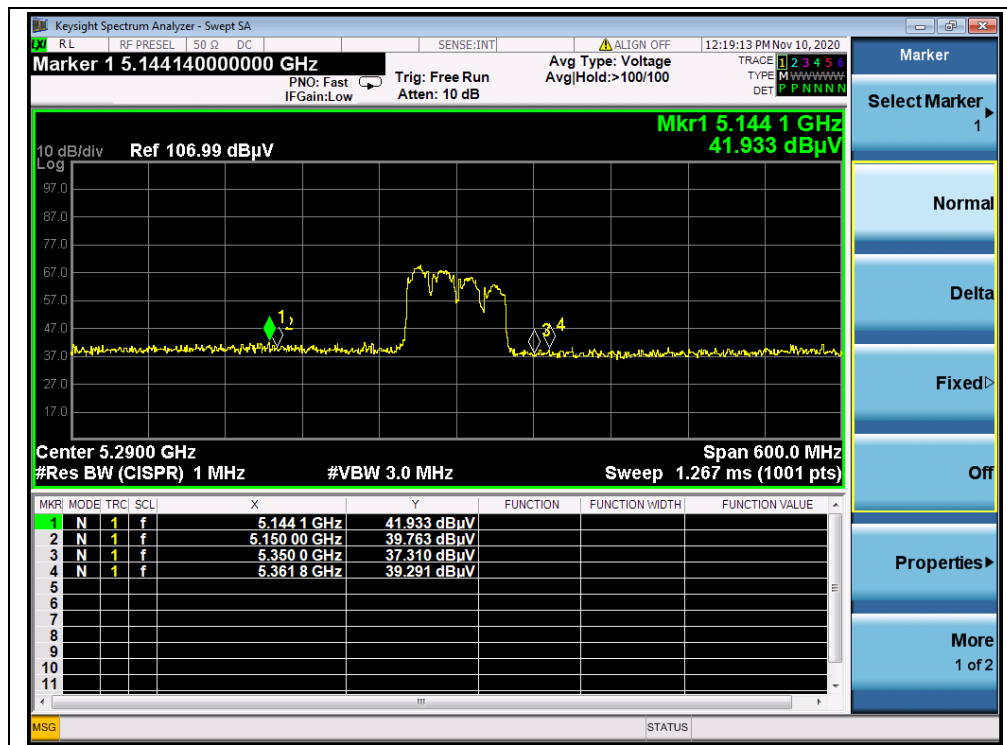
B.Test Plot:



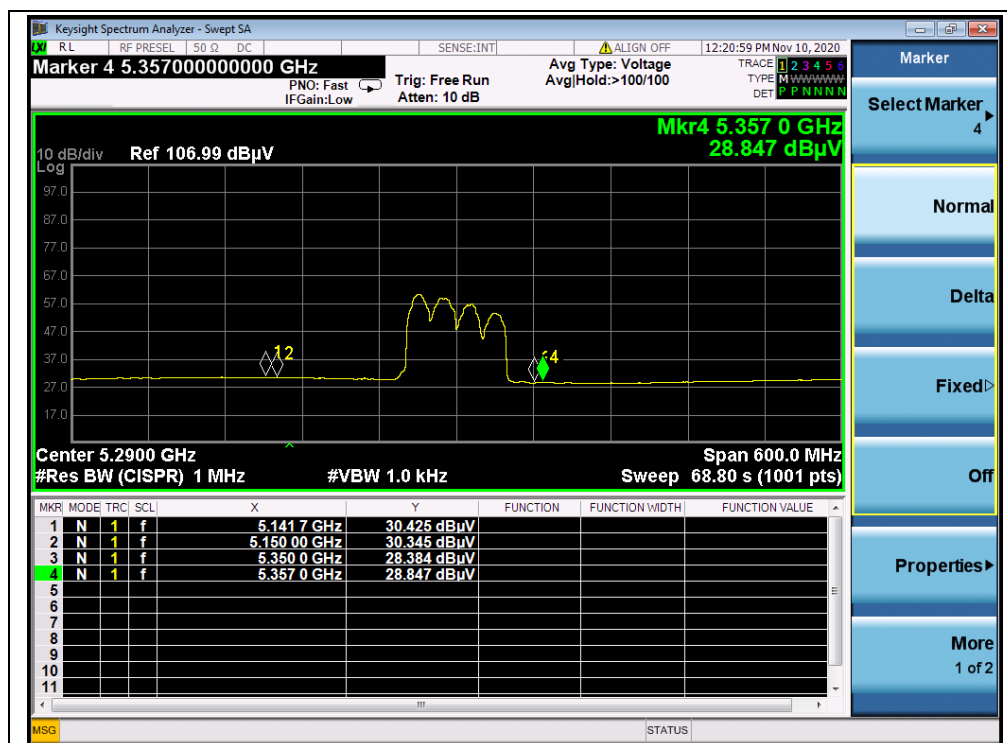
(PEAK, Channel 42, 802.11ac (VHT80))



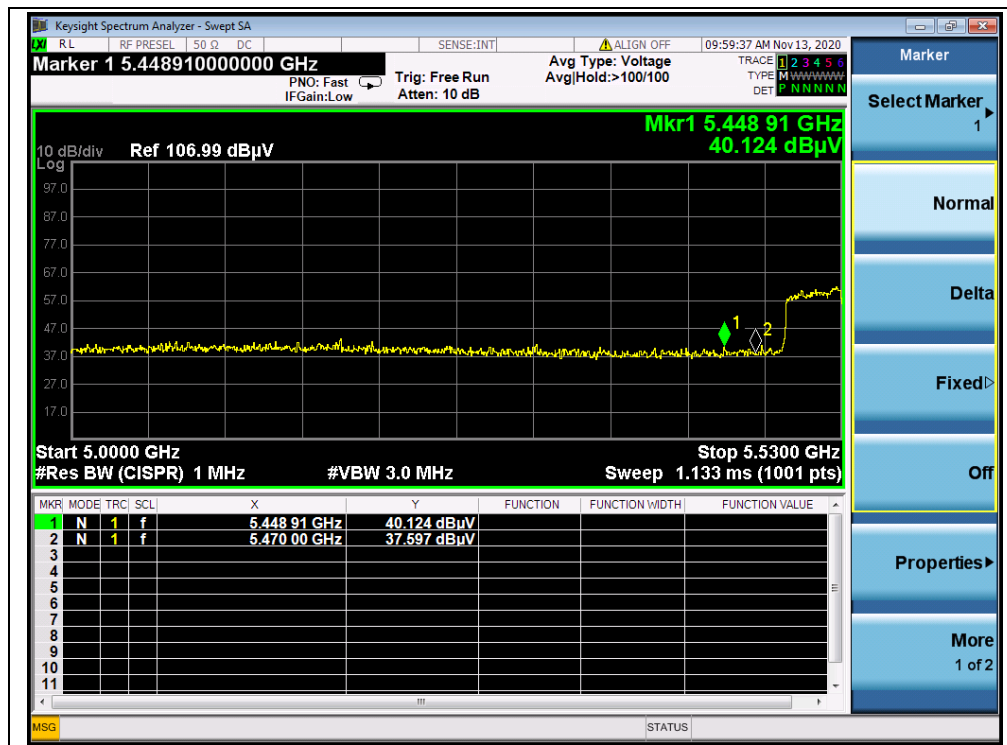
(AVERAGE, Channel 42, 802.11ac (VHT80))



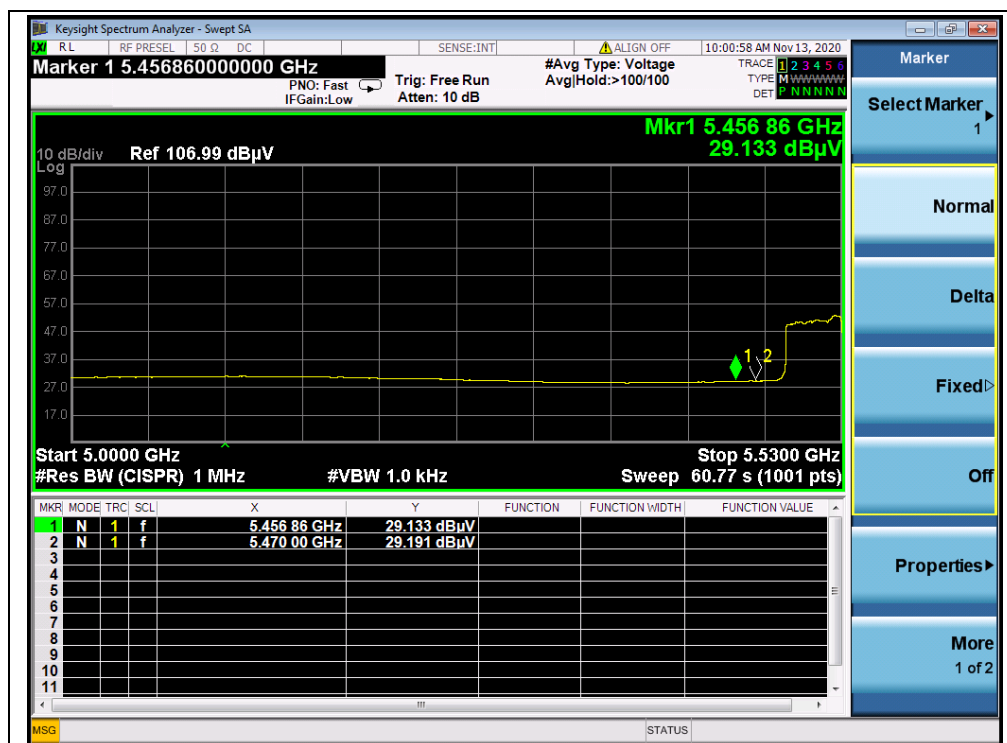
(PEAK, Channel 58, 802.11ac (VHT80))



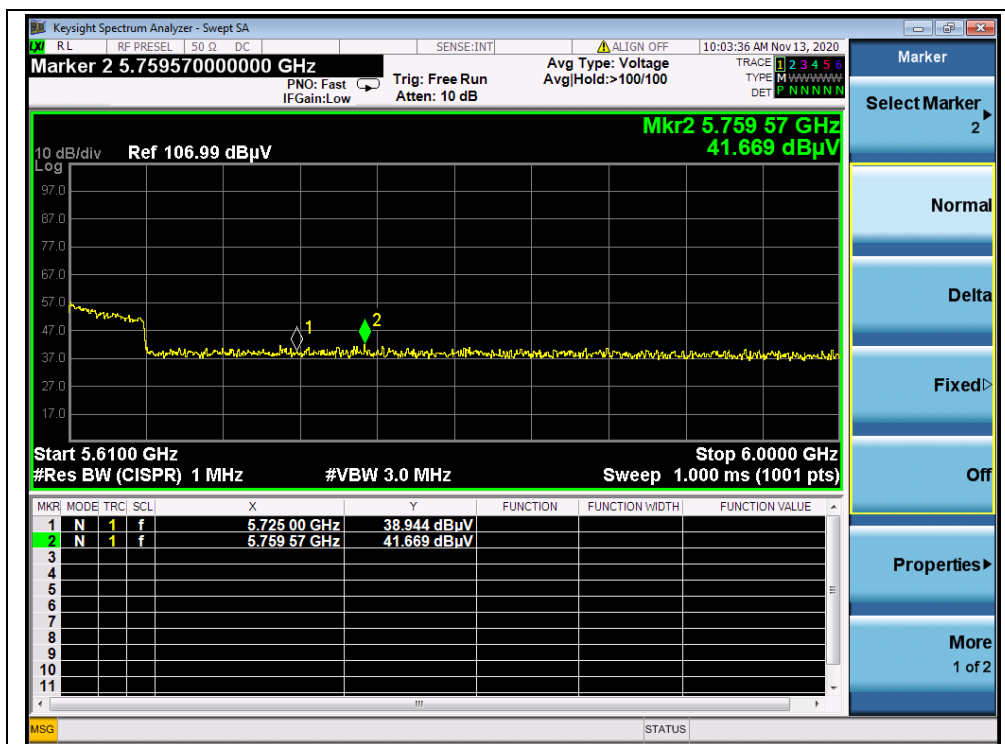
(AVERAGE, Channel 58, 802.11ac (VHT80))



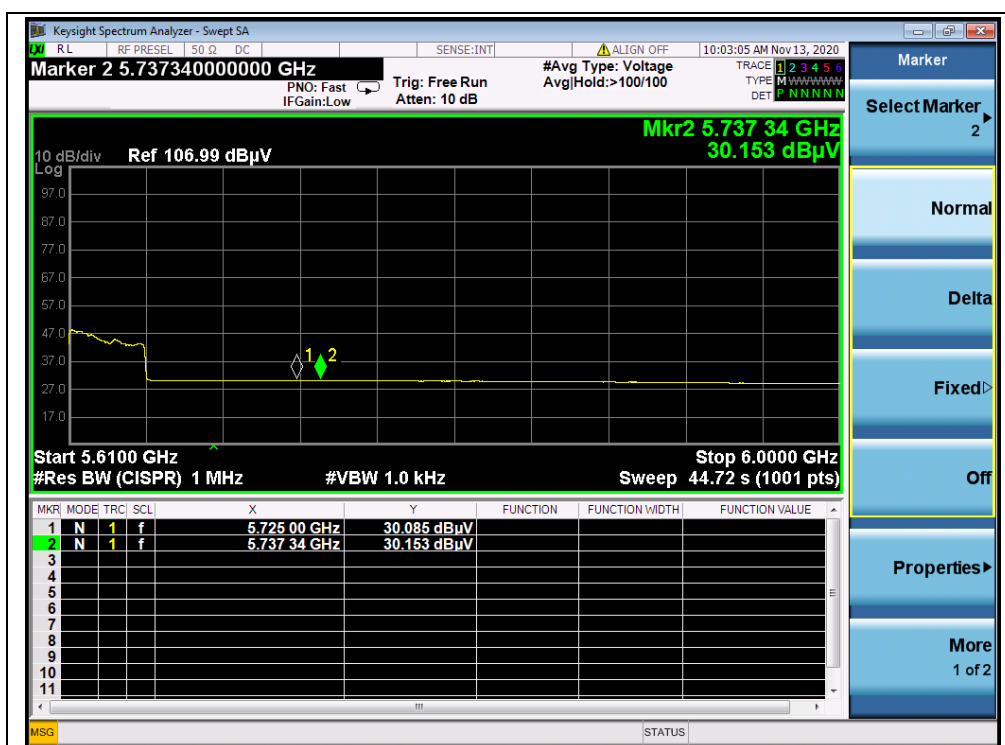
(PEAK, Channel 106, 802.11ac (VHT80))



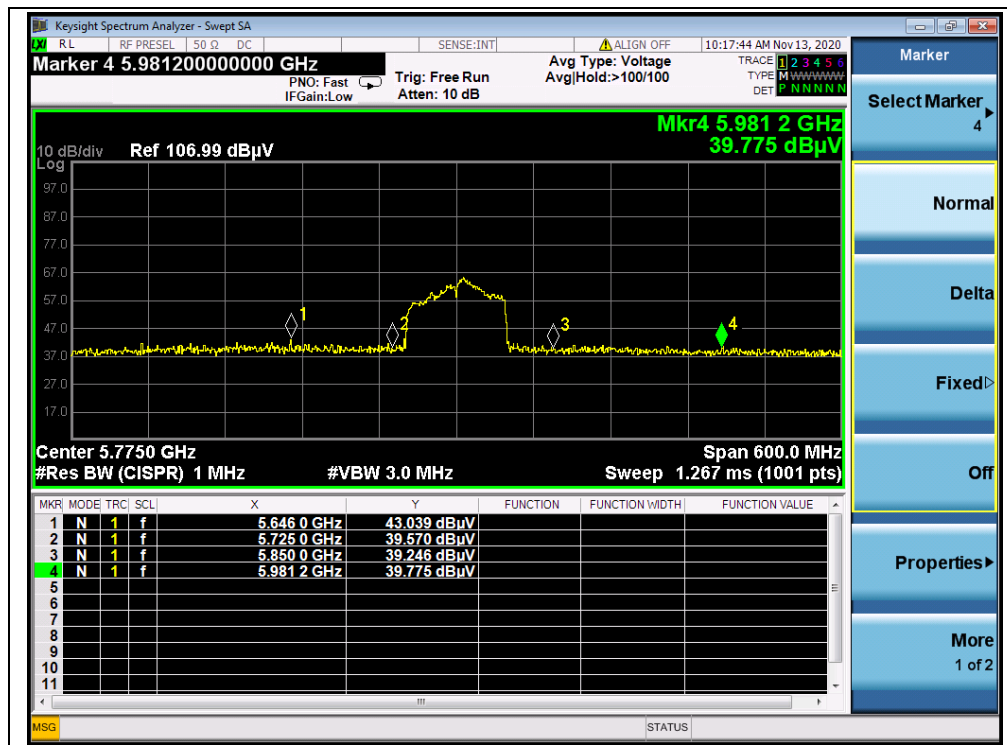
(AVERAGE, Channel 106, 802.11ac (VHT80))



(PEAK, Channel 138, 802.11ac (VHT80))



(AVERAGE, Channel 138, 802.11ac (VHT80))



(PEAK, Channel 155, 802.11ac (VHT80))

2.9. Radiated Emission

2.9.1. Requirement

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

- (1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \mu\text{V/m}$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

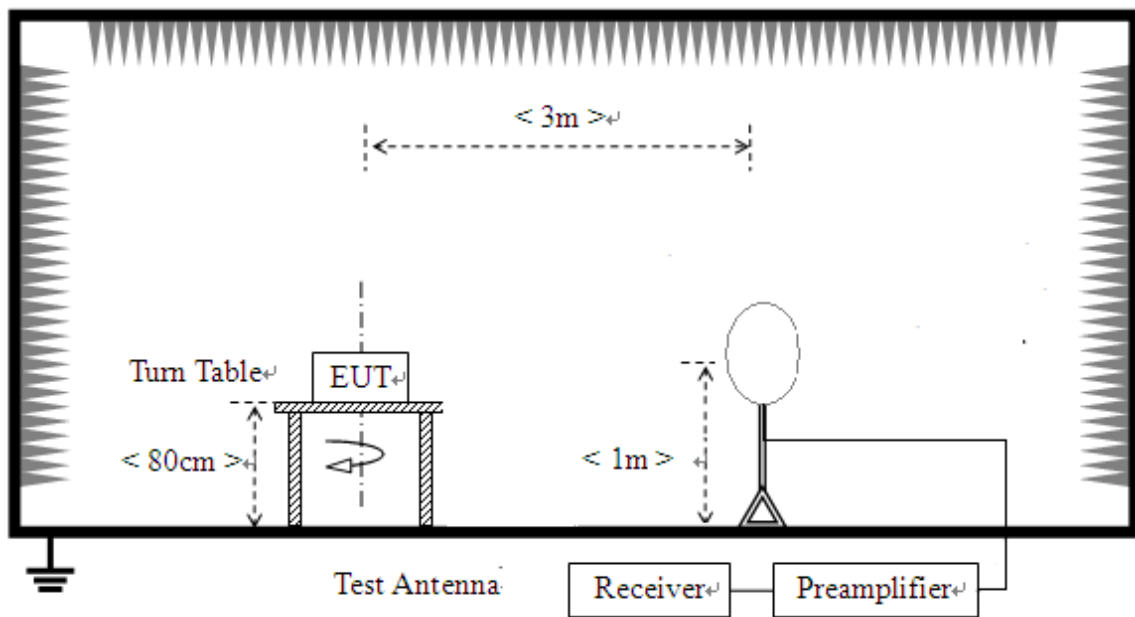
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

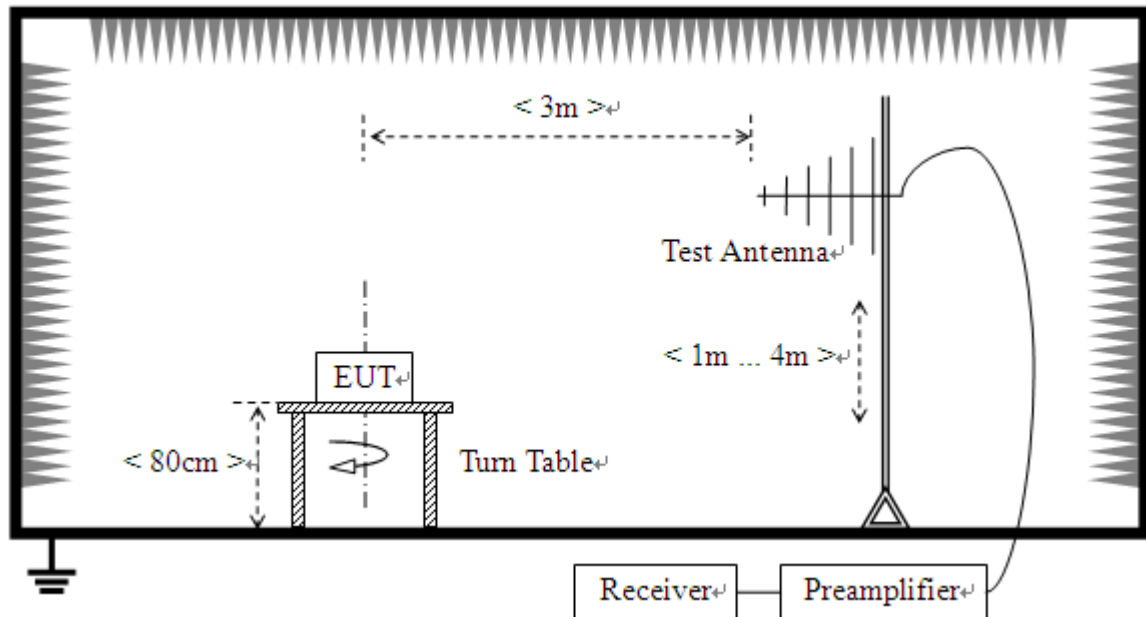
2.9.2. Test Description

Test Setup:

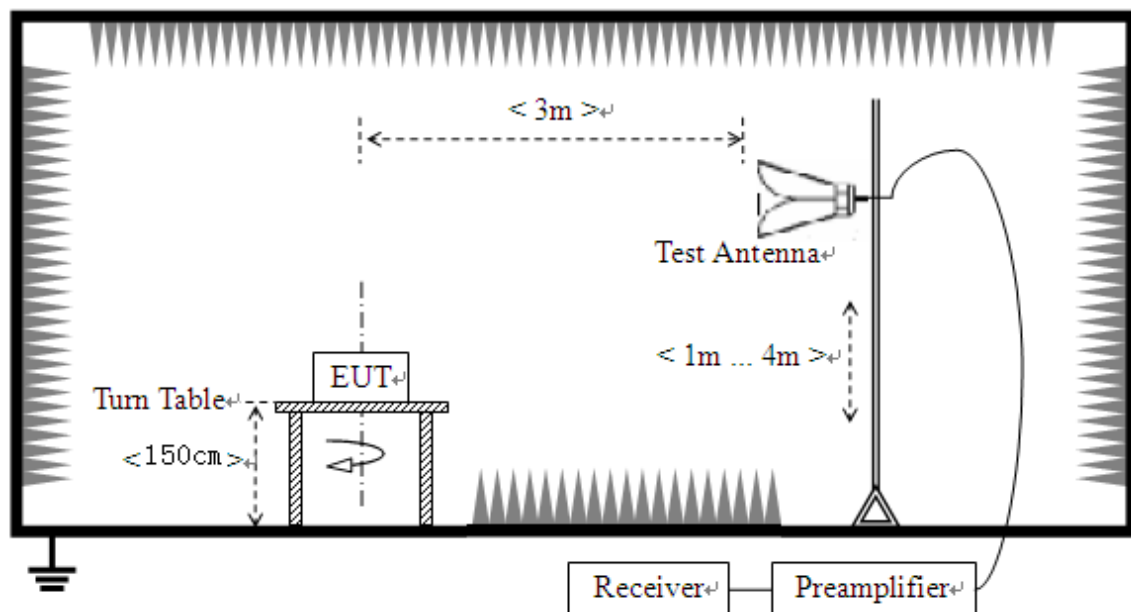
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.



For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

2.9.3.Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note 1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

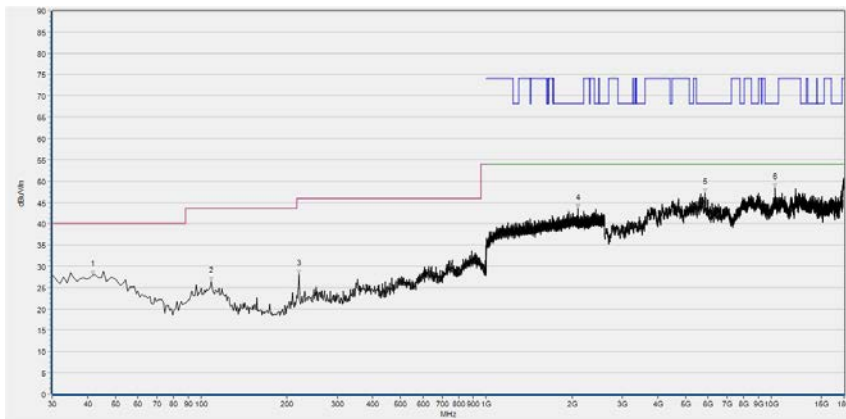
Note 2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

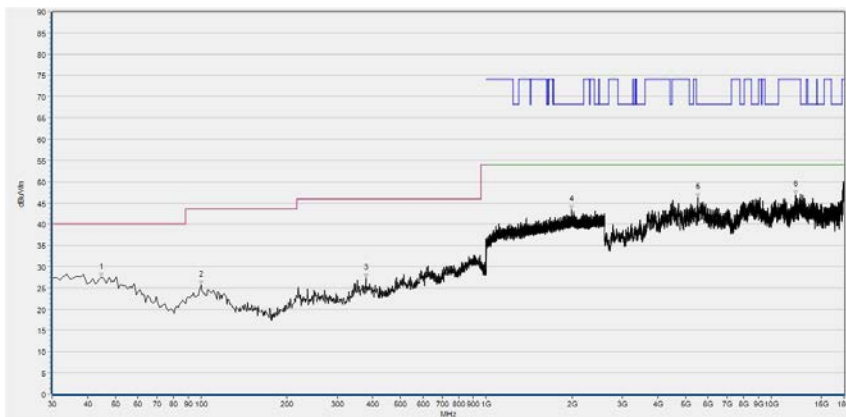
**802.11a Mode**

Plot for Channel 36



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
41.640	28.04	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
108.570	26.40	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	28.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2092.800	43.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5858.640	47.22	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10321.560	48.47	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

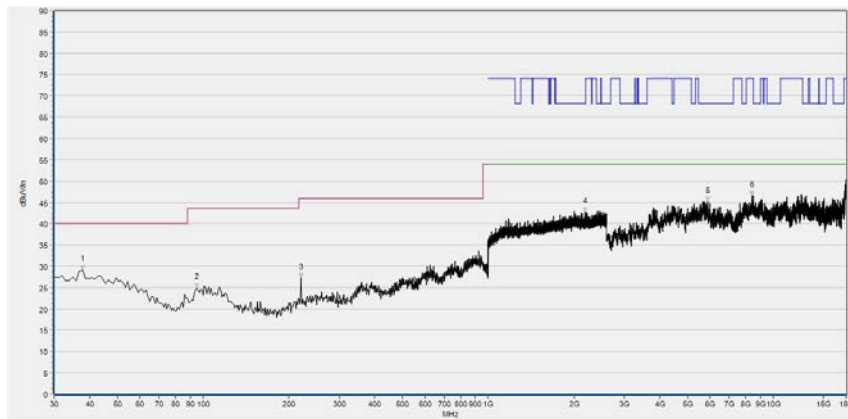
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
44.550	27.53	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.840	25.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
378.230	27.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1990.400	43.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5532.160	46.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12157.240	46.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

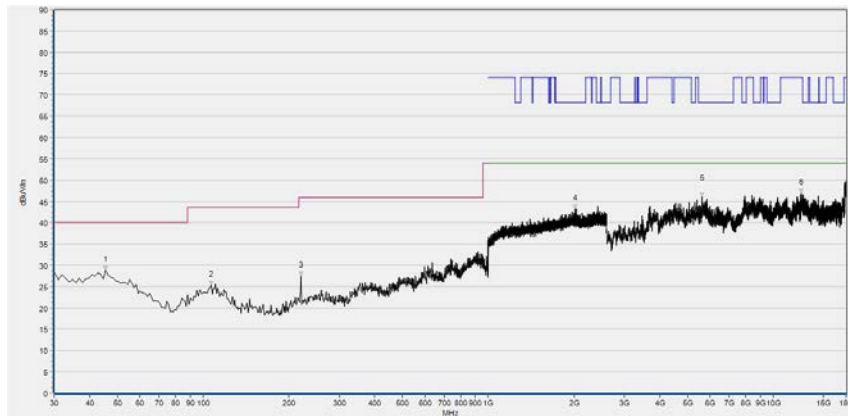
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
37.760	29.18	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
94.990	24.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	27.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2186.667	42.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5892.520	45.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8408.880	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

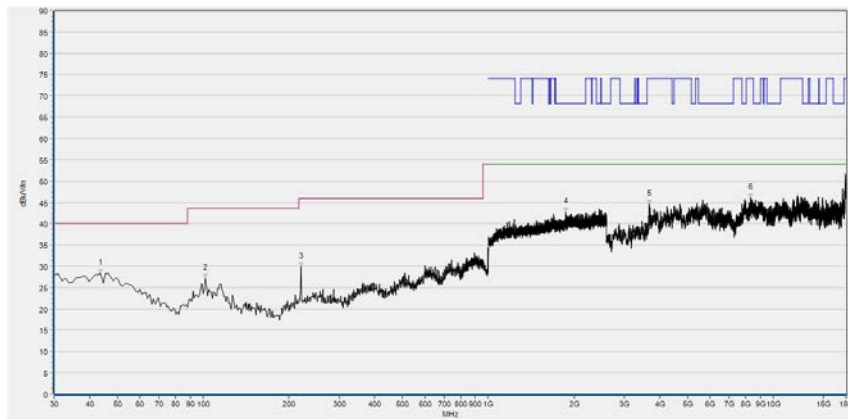
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
45.520	28.81	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
106.630	25.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	27.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2016.533	43.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5621.480	46.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12529.920	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

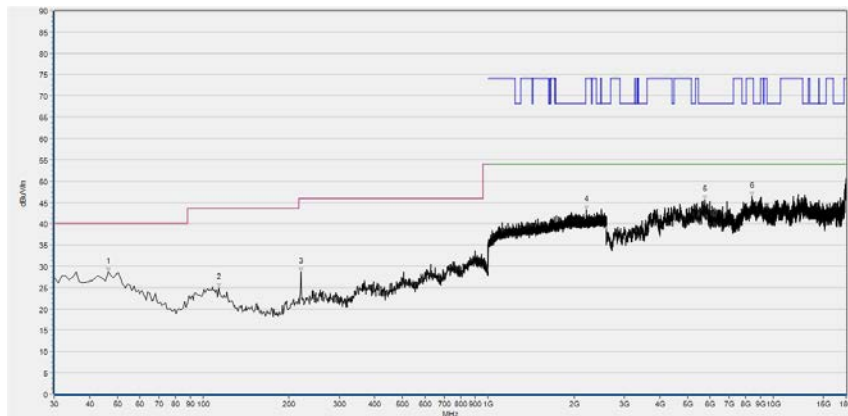
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.580	28.31	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
101.780	27.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	29.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1864.533	42.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
3674.920	44.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8328.800	46.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

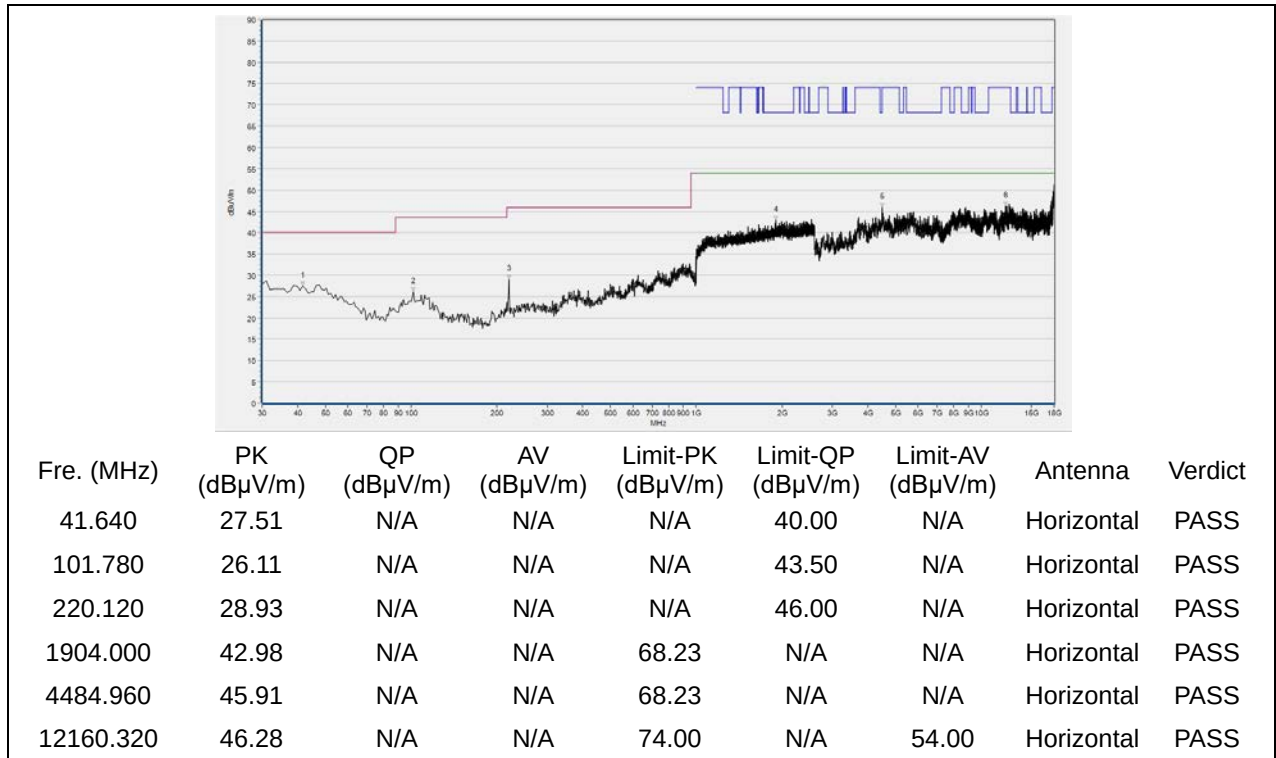
(Antenna Horizontal, 30MHz to 18GHz)



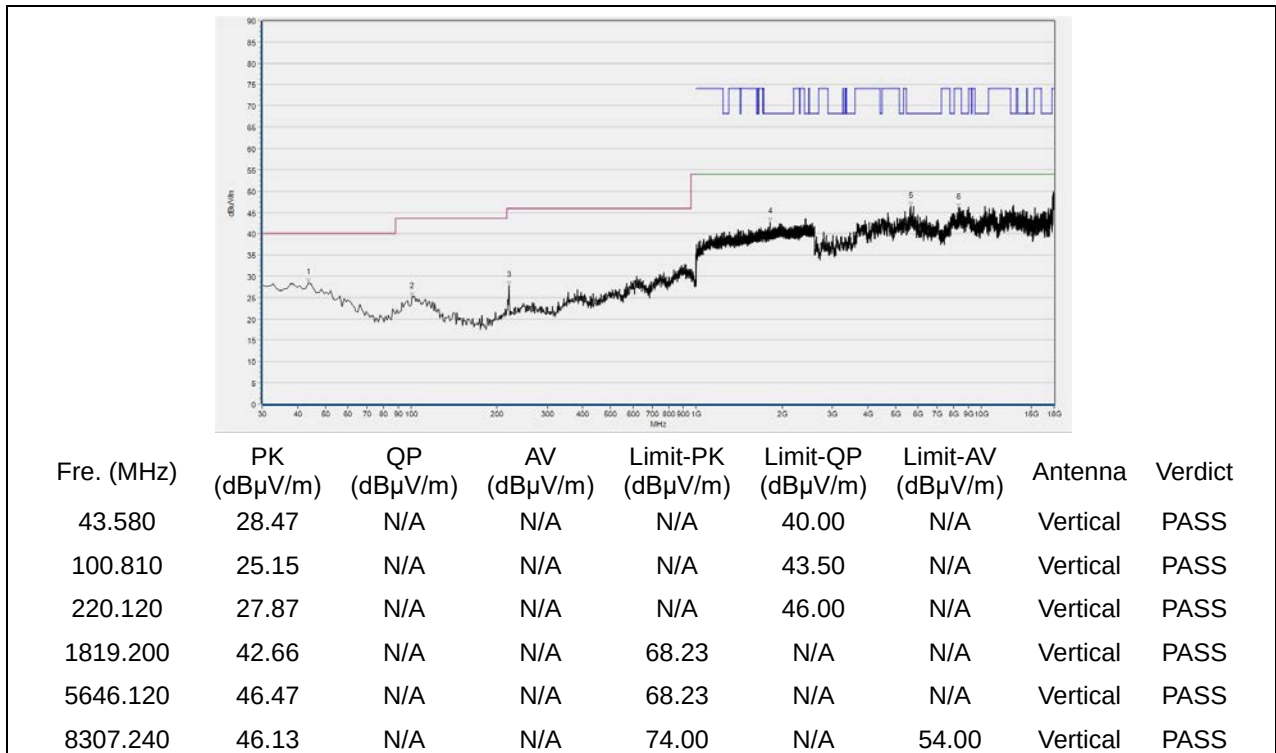
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
46.490	28.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
113.420	25.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	28.70	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2203.200	43.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5741.600	45.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8411.960	46.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52

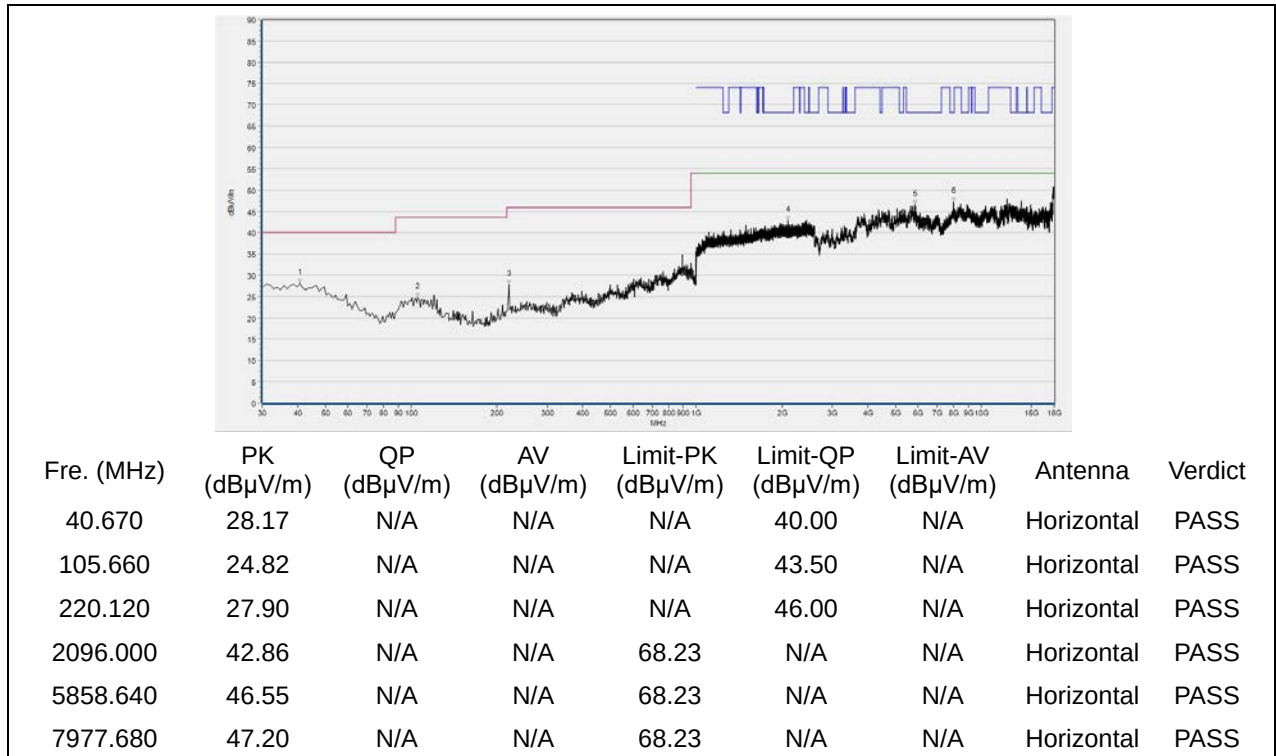


(Antenna Horizontal, 30MHz to 18GHz)

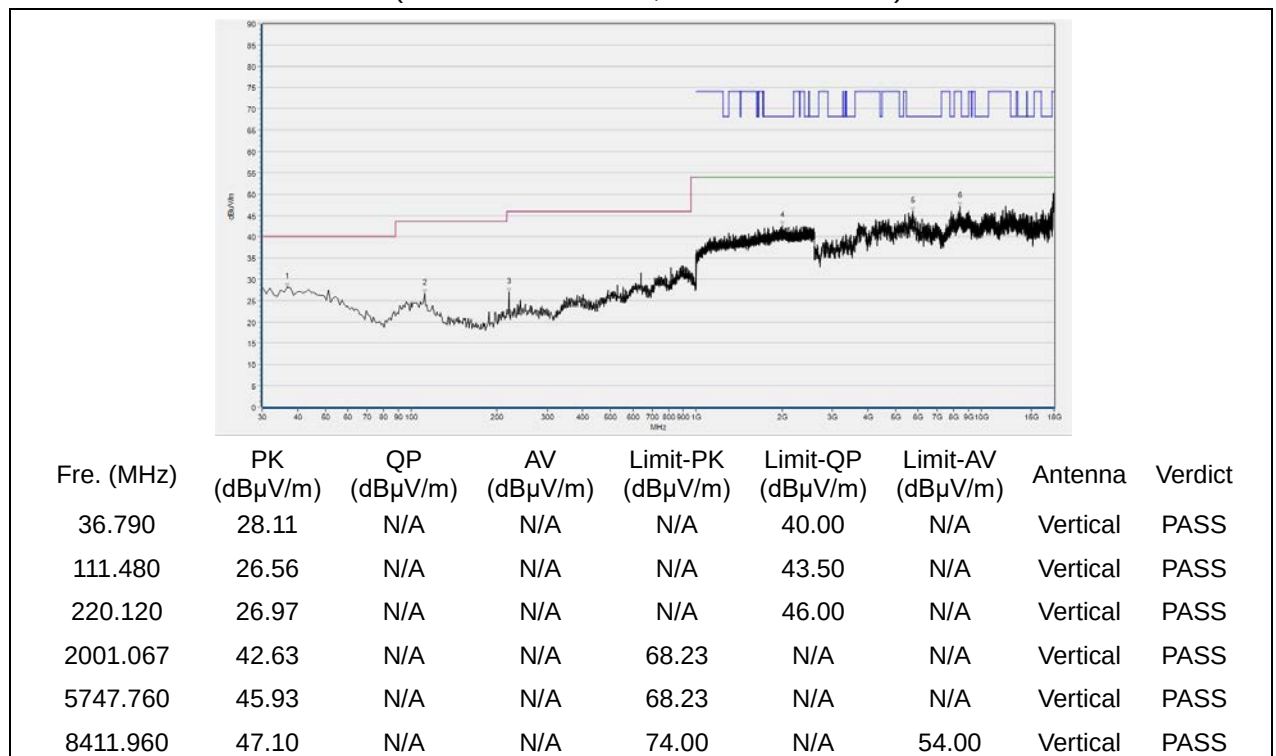


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60

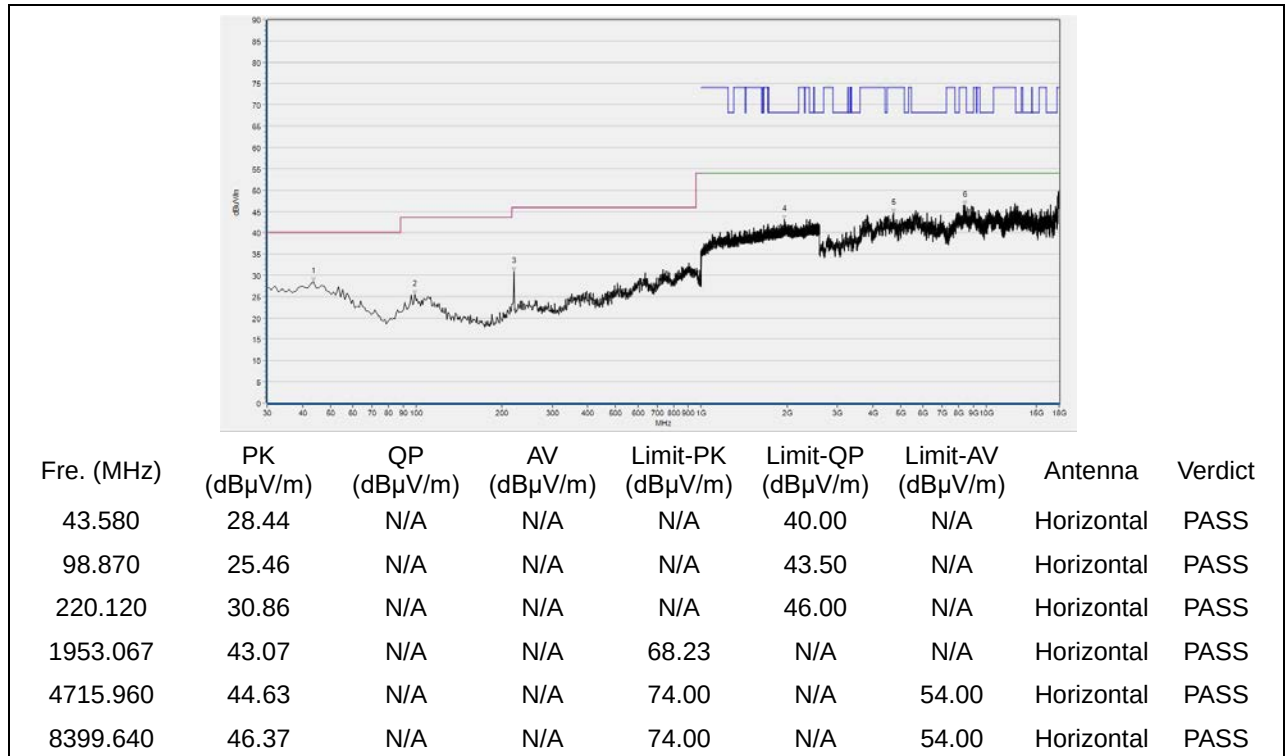


(Antenna Horizontal, 30MHz to 18GHz)

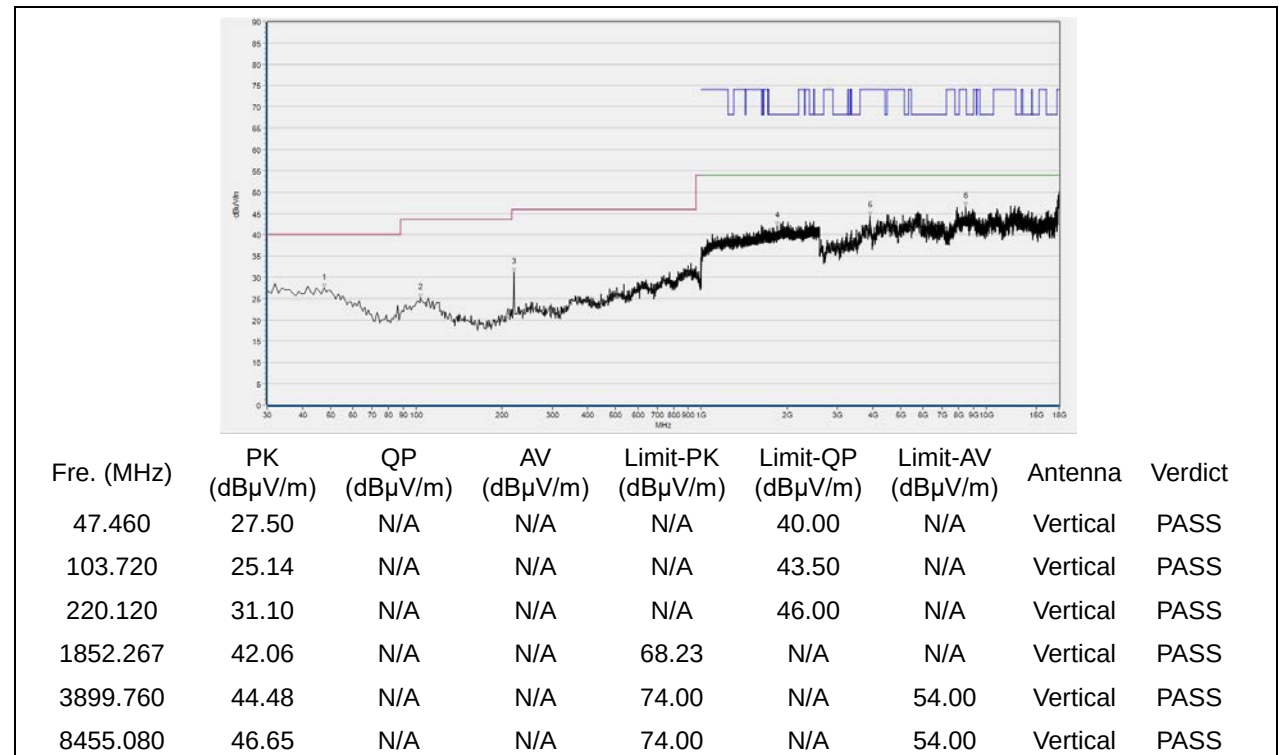


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64

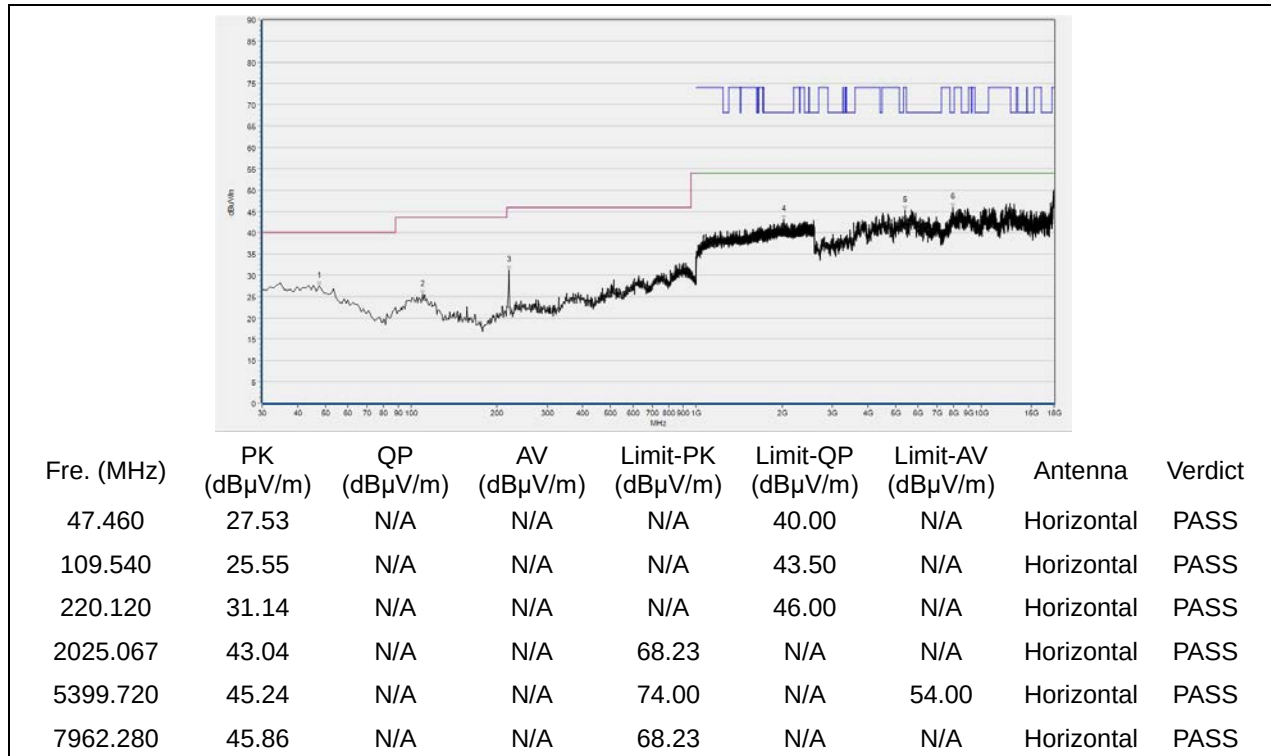


(Antenna Horizontal, 30MHz to 18GHz)

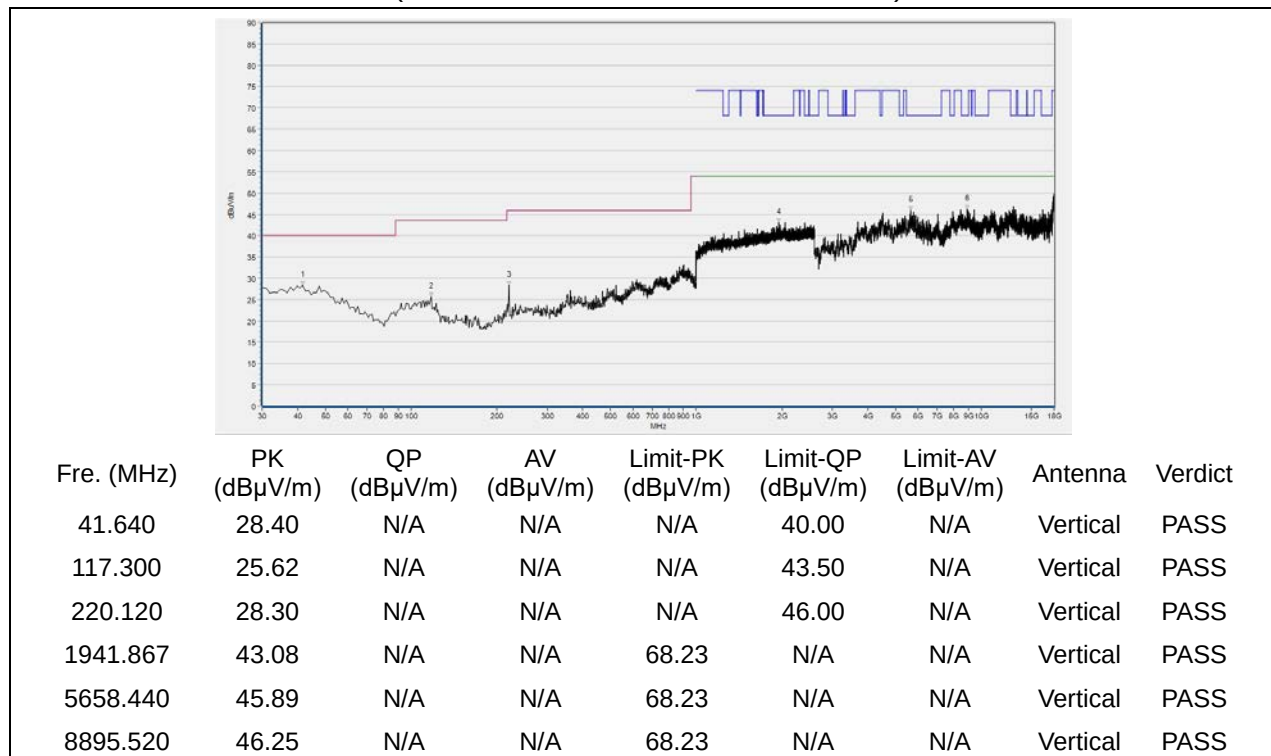


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100

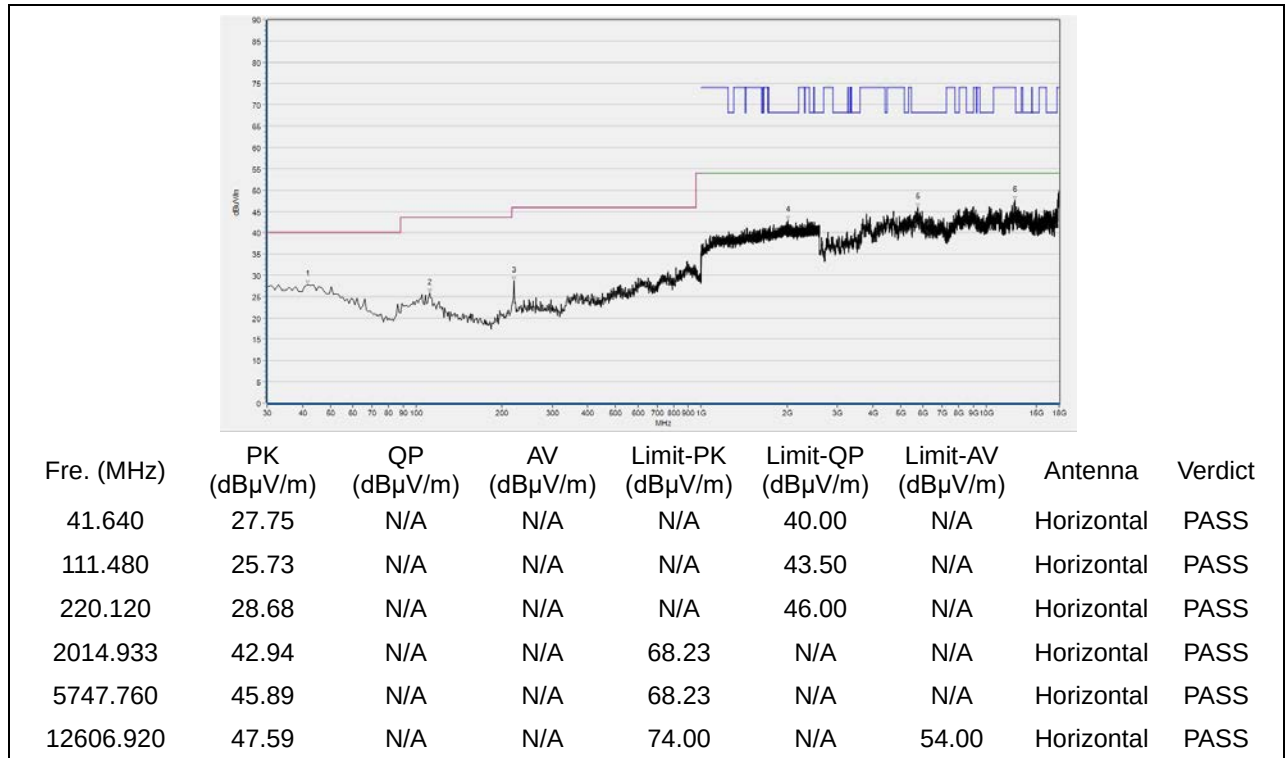


(Antenna Horizontal, 30MHz to 18GHz)

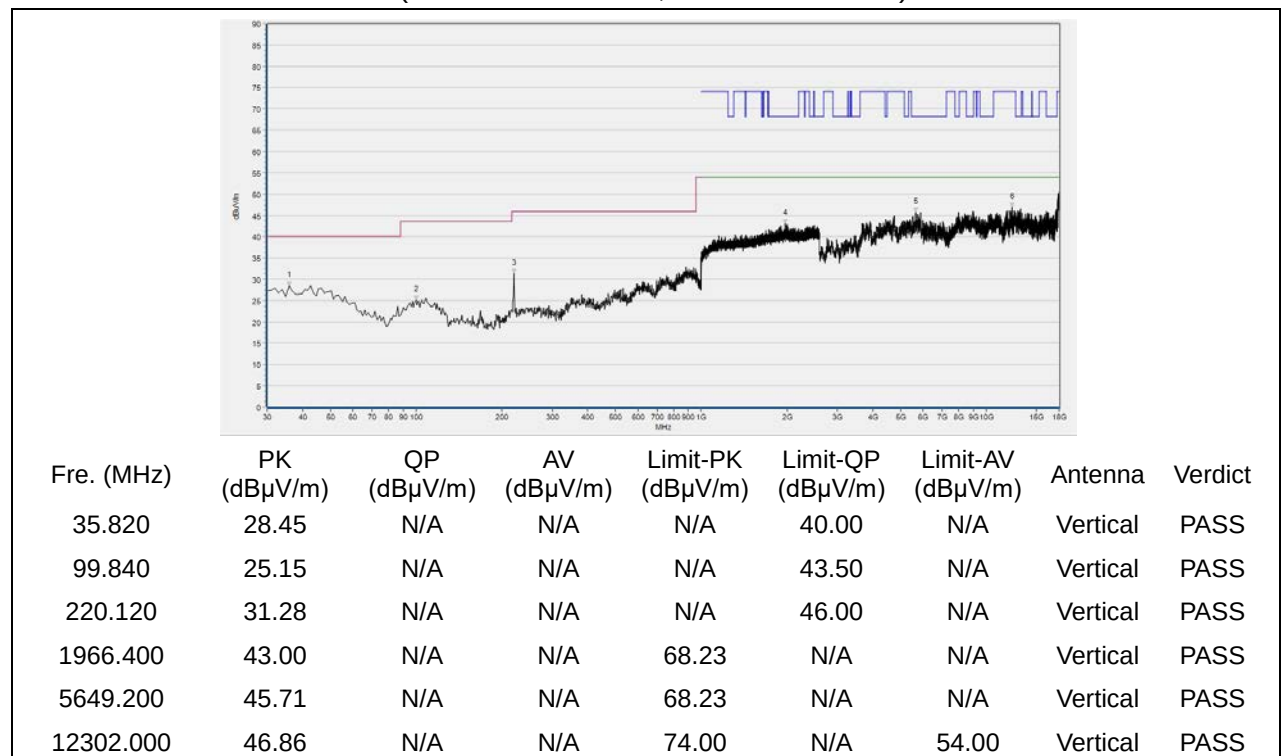


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



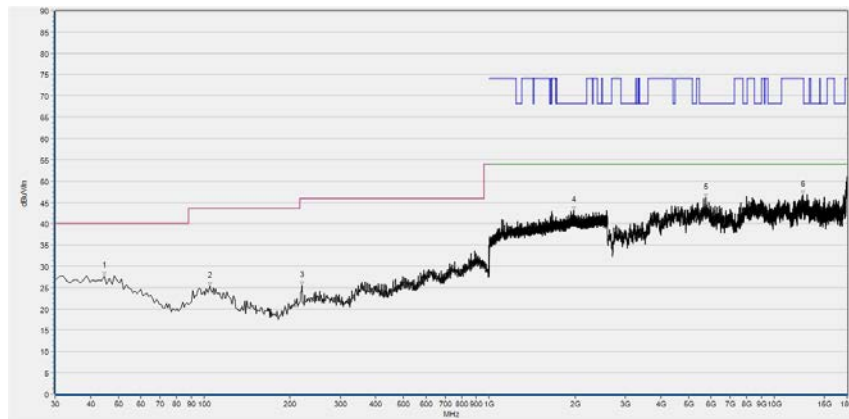
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

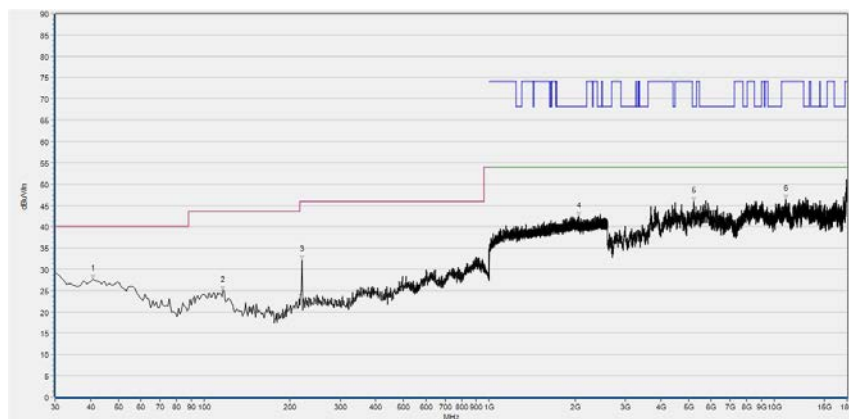


Plot for Channel 144



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
44.550	27.69	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.690	25.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	25.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1982.400	43.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5738.520	46.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12603.840	46.69	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

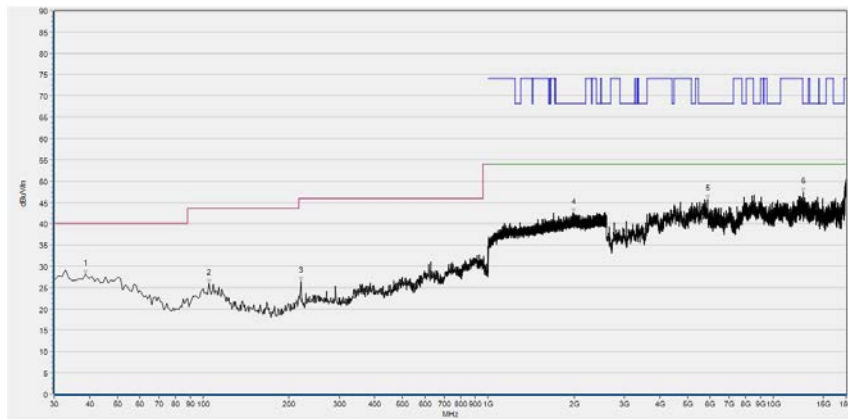
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
40.670	27.66	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
116.330	24.90	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	32.17	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2058.133	42.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5211.840	46.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10977.600	46.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

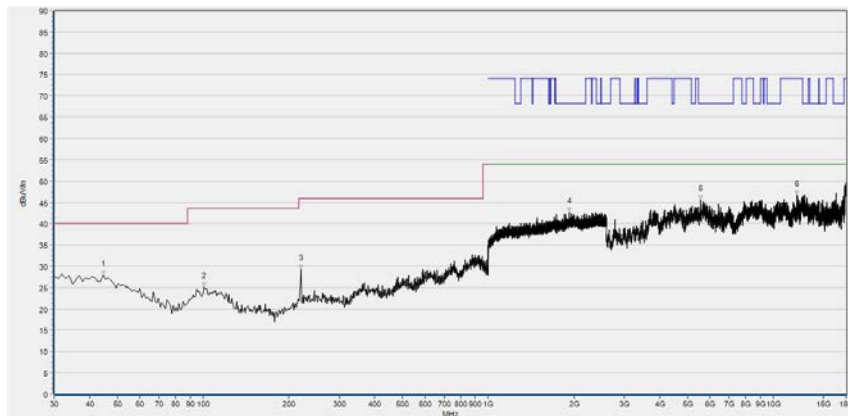
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
38.730	28.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.690	26.05	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	26.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1995.200	42.49	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5867.880	45.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12751.680	47.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

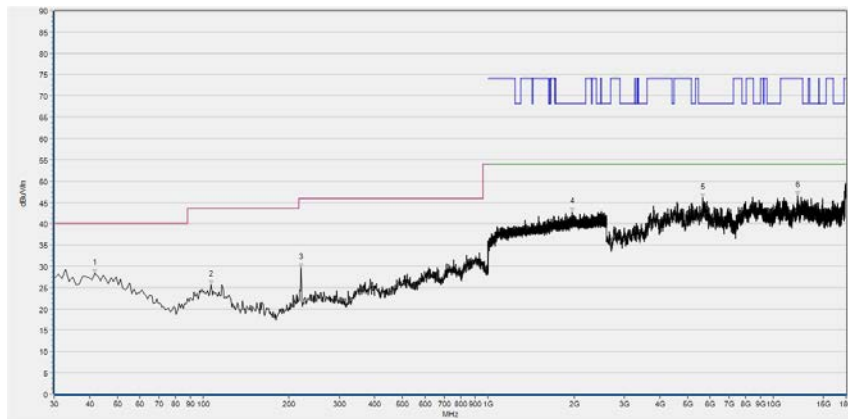


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
44.550	28.05	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.810	25.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	29.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1921.600	42.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5559.880	45.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12089.480	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

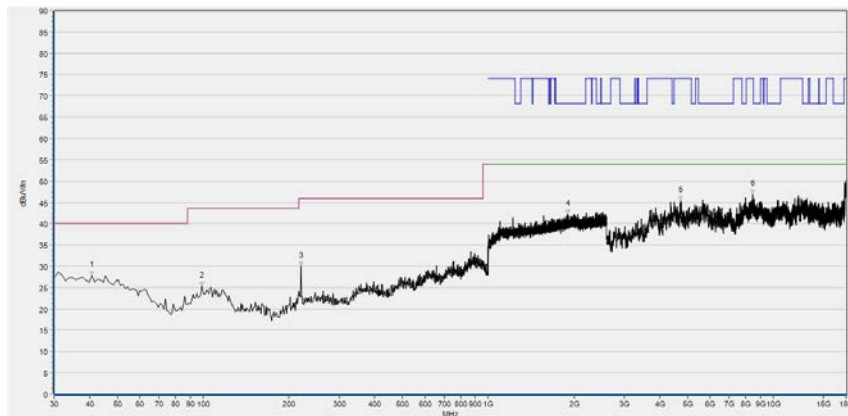


Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
41.640	28.31	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
106.630	25.64	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	29.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1972.800	42.67	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5661.520	46.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12184.960	46.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

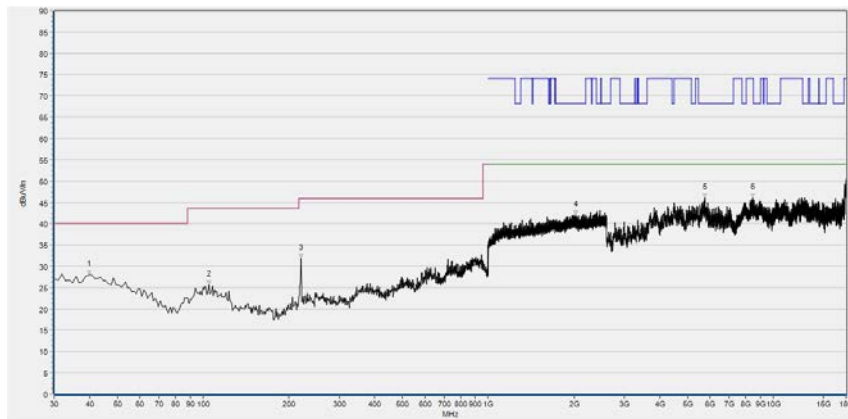
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
40.670	27.83	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
98.870	25.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	30.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1903.467	42.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4722.120	45.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8458.160	46.99	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

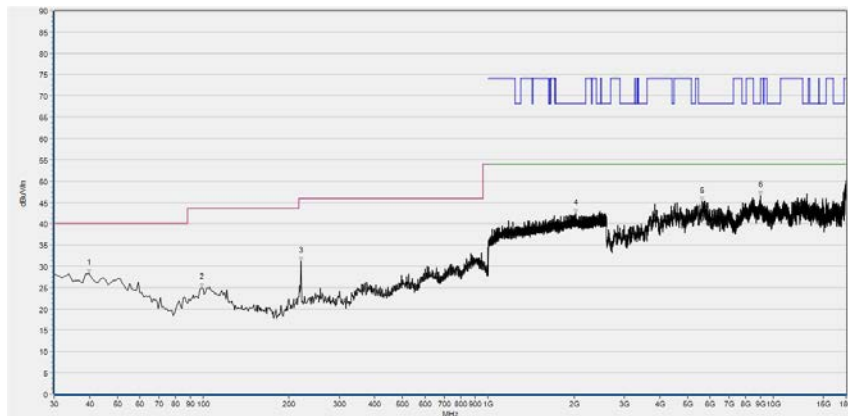
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
39.700	28.00	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.690	25.64	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	31.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2027.733	42.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5760.080	46.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8476.640	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

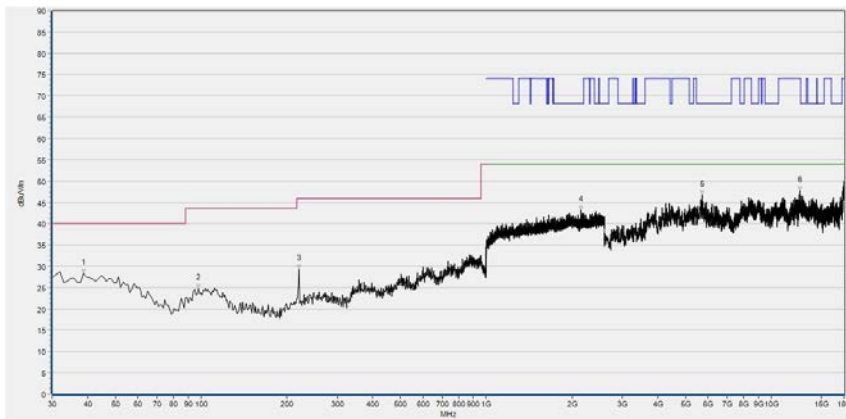


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
39.700	28.29	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
98.870	25.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	31.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2020.800	42.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5633.800	45.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9015.640	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

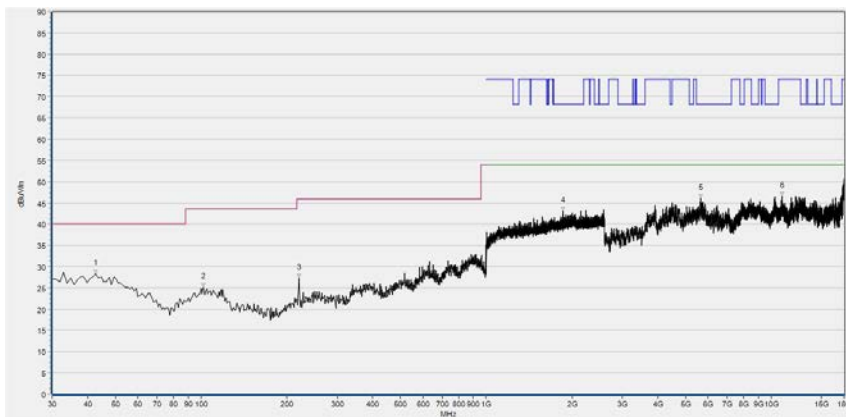
**802.11n (HT40) mode**

Plot for Channel 38



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
38.730	28.25	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
97.900	24.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	29.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2149.333	43.23	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5729.280	46.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12613.080	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

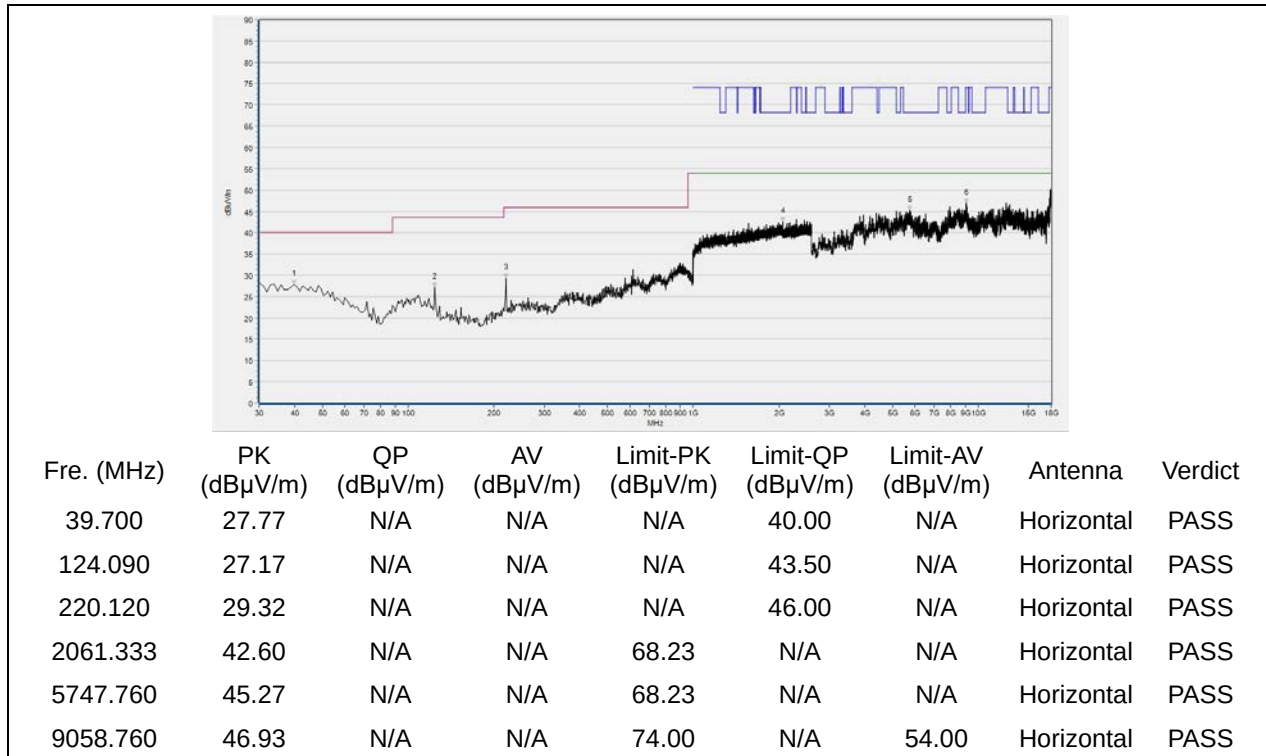
(Antenna Horizontal, 30MHz to 18GHz)



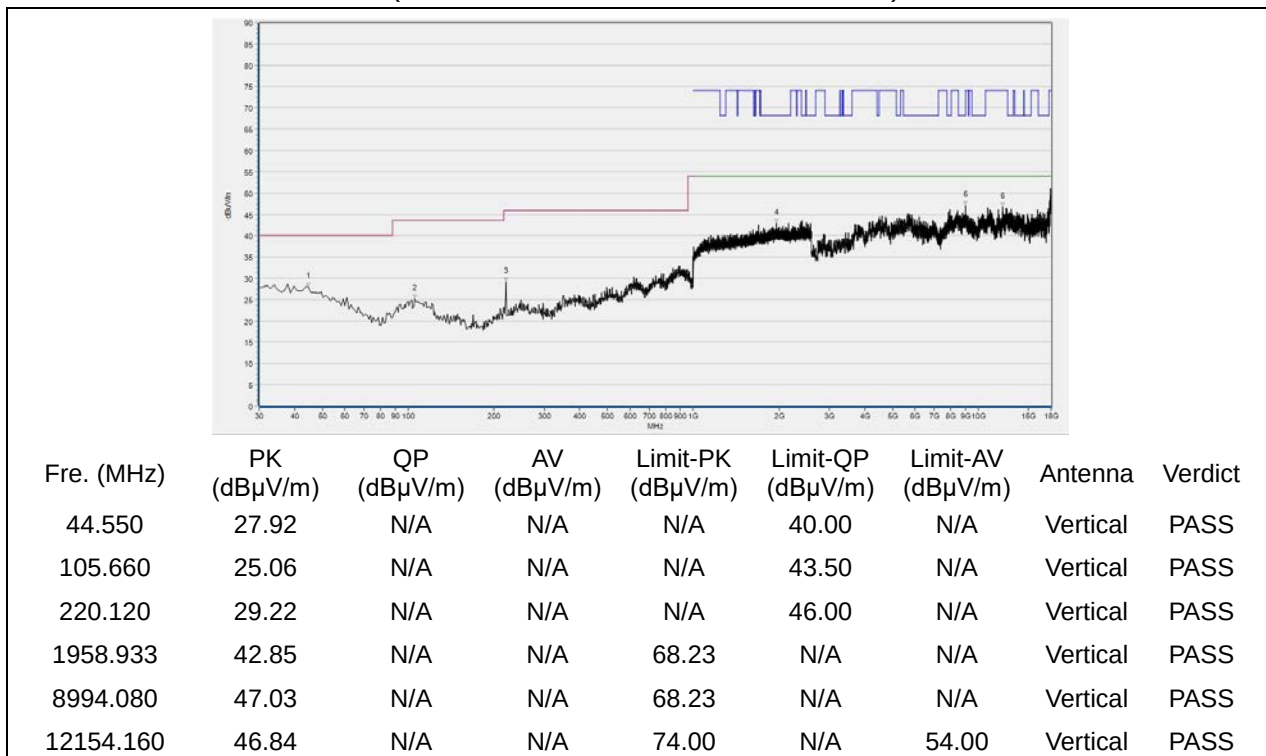
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
42.610	28.34	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
101.780	25.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	27.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1858.133	43.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.040	46.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10925.240	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46

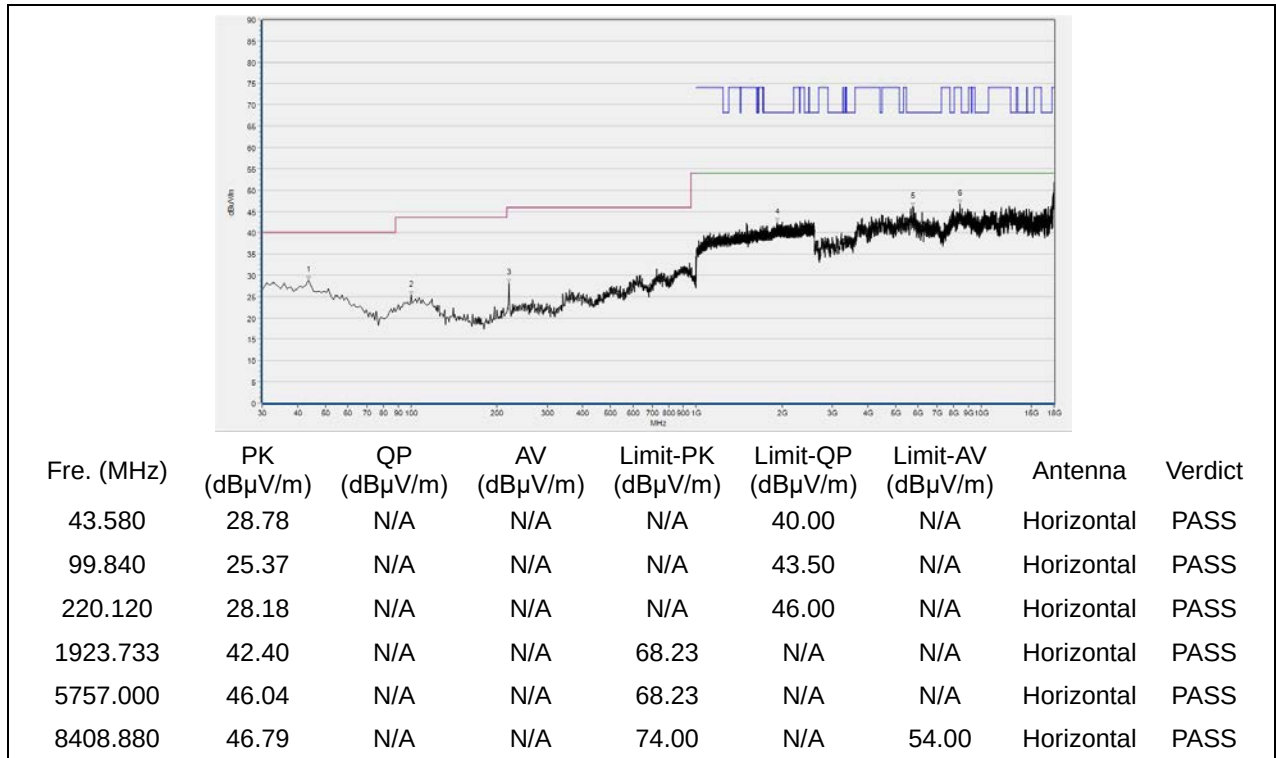


(Antenna Horizontal, 30MHz to 18GHz)

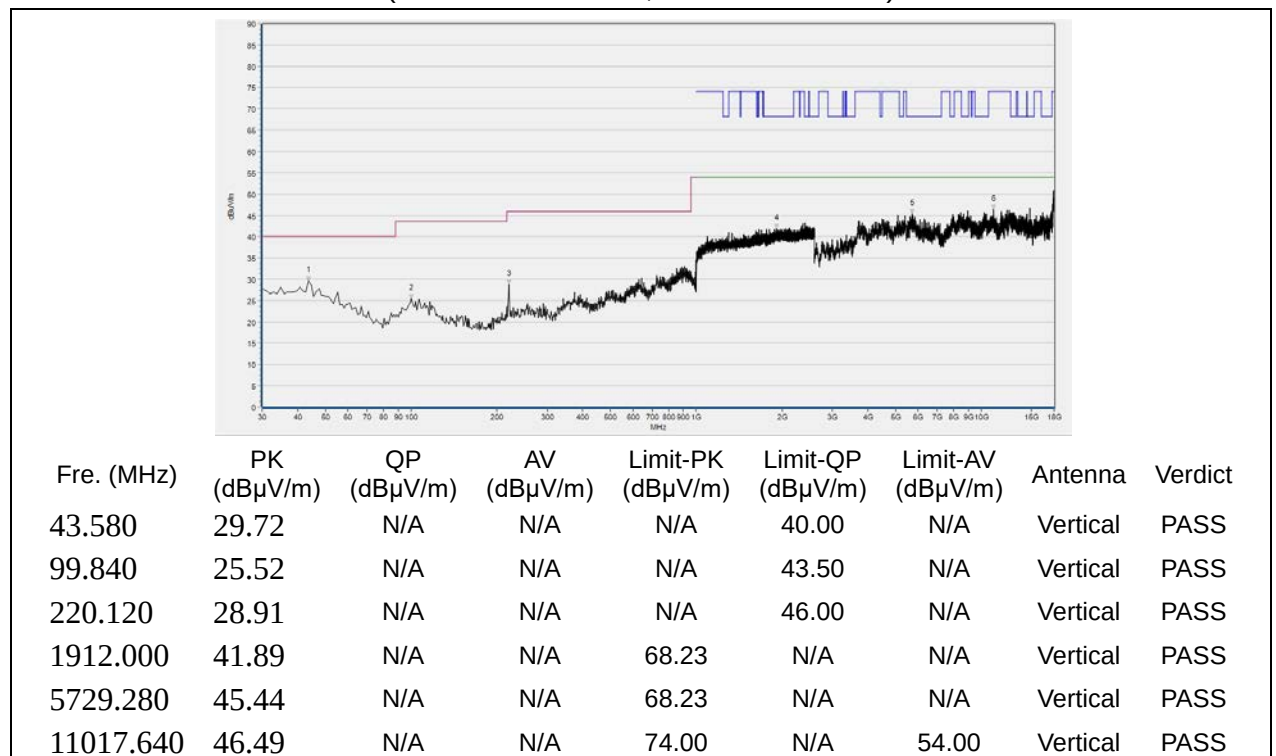


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54

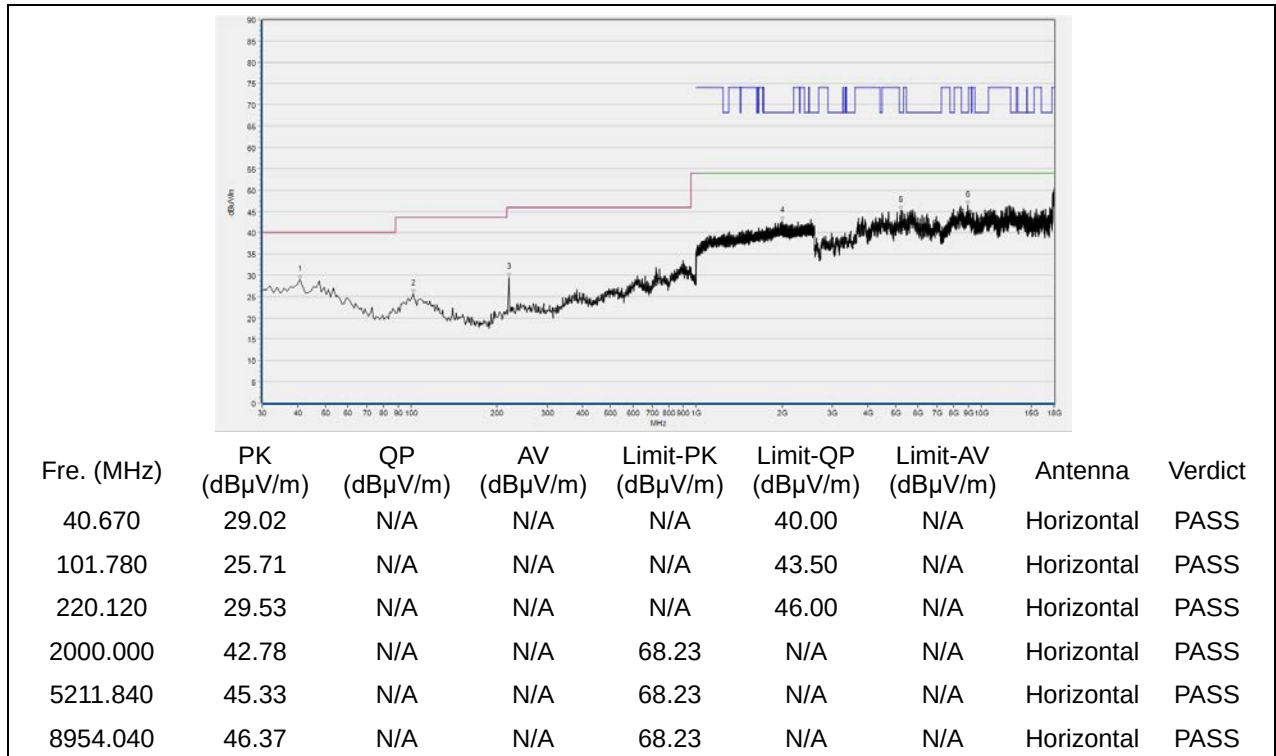


(Antenna Horizontal, 30MHz to 18GHz)

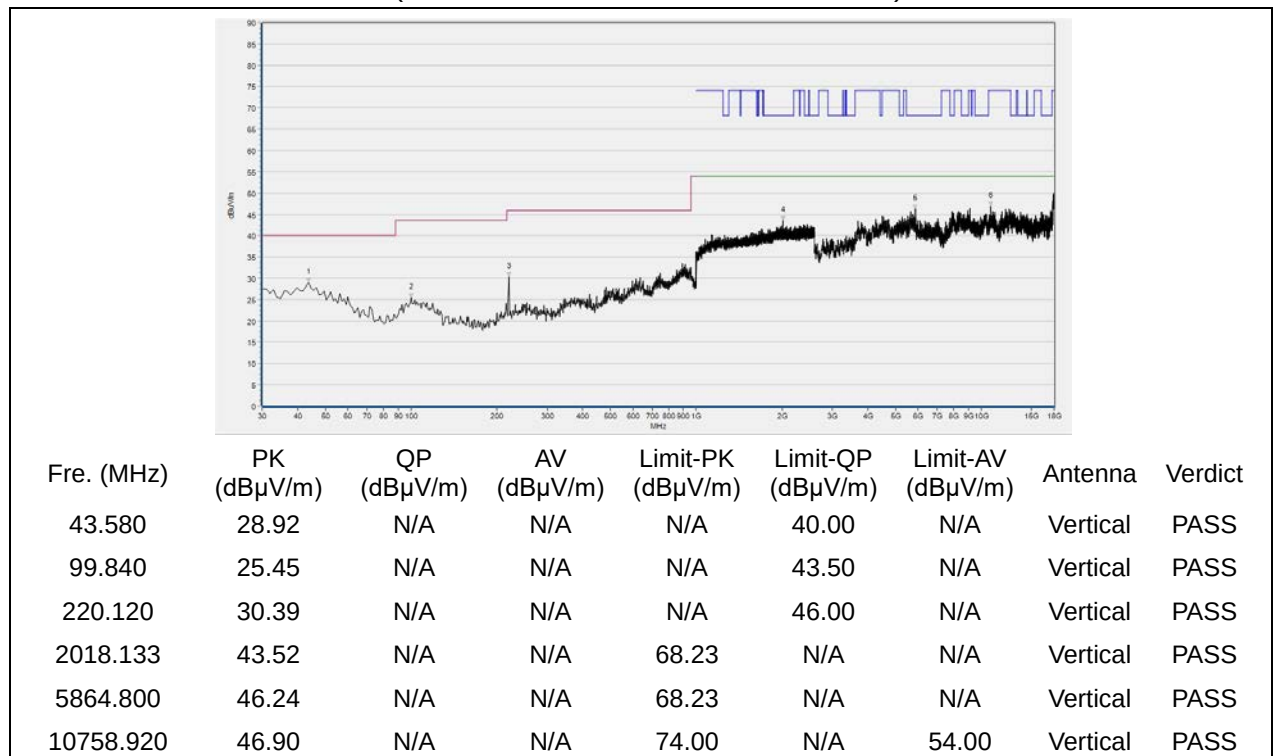


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62

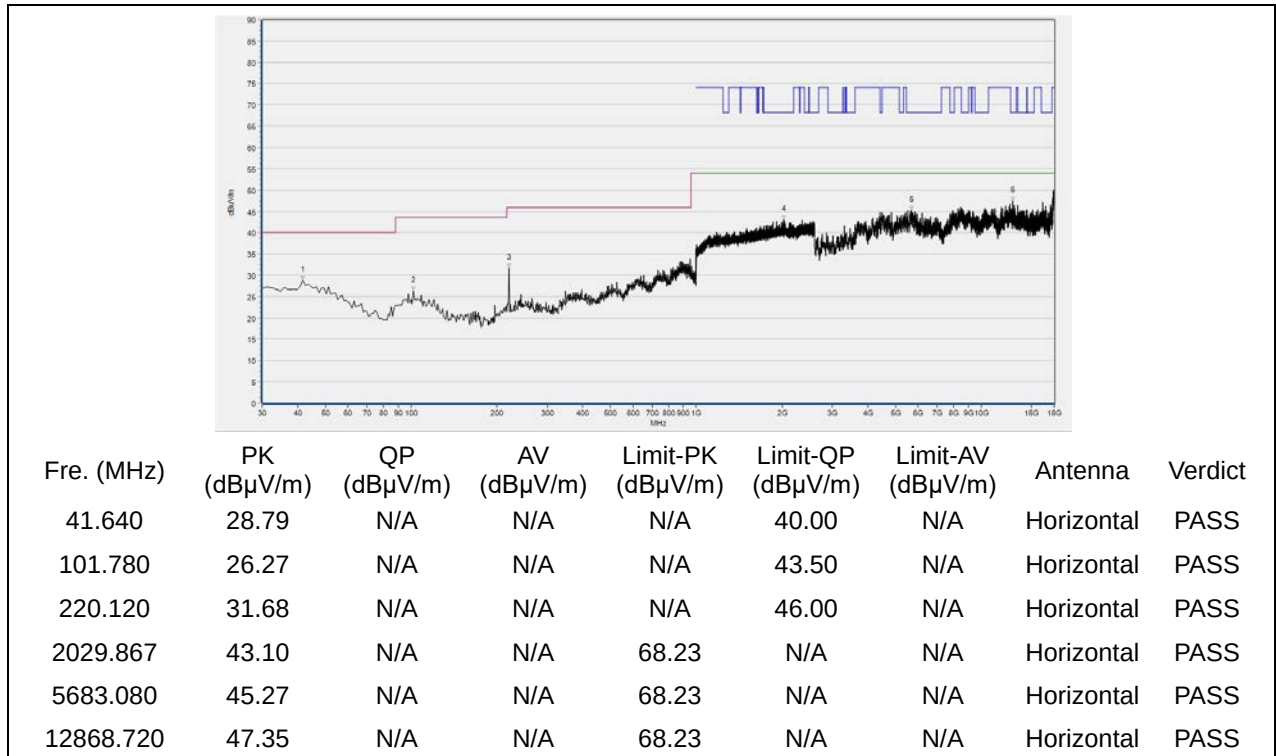


(Antenna Horizontal, 30MHz to 18GHz)

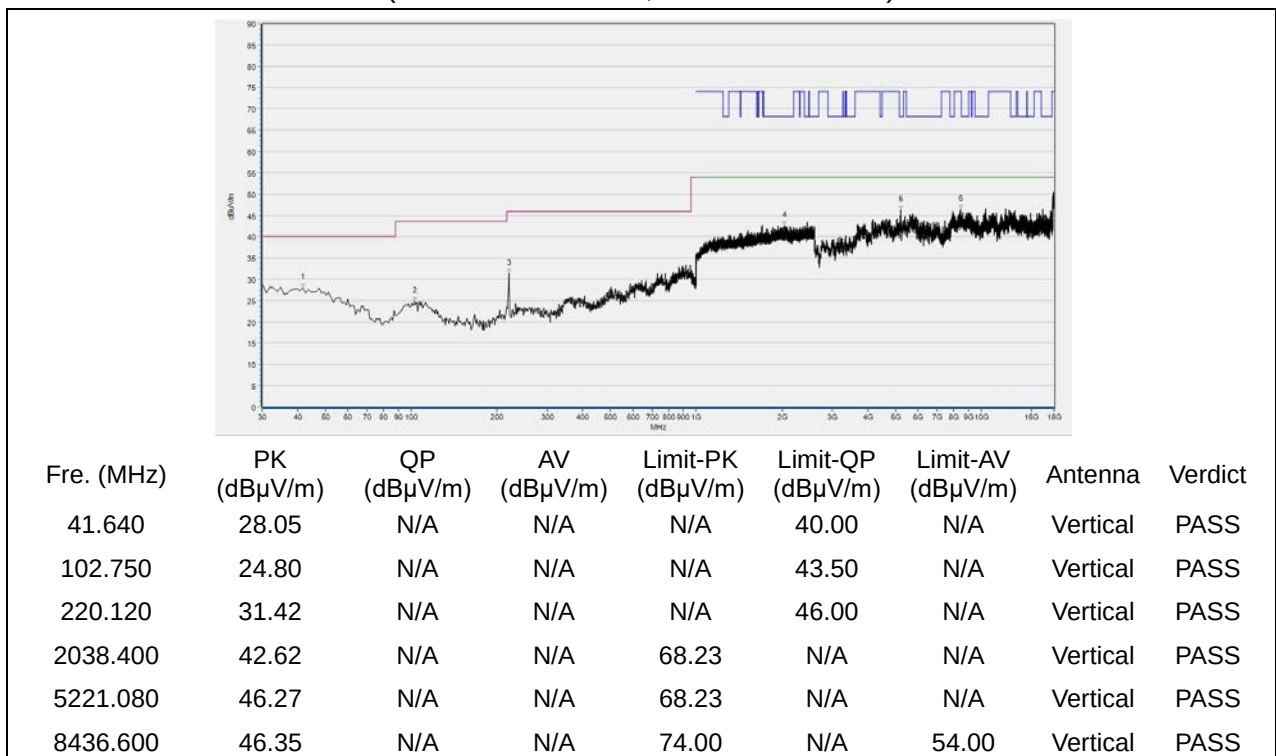


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102

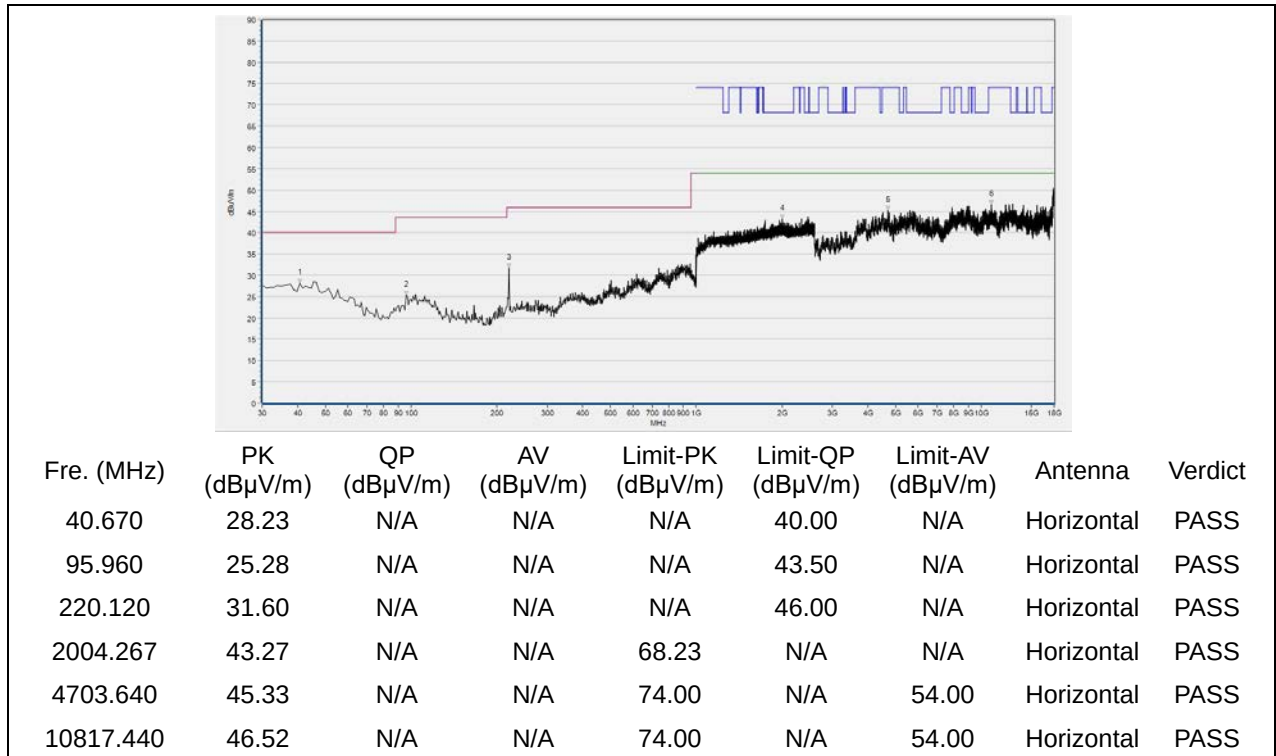


(Antenna Horizontal, 30MHz to 18GHz)

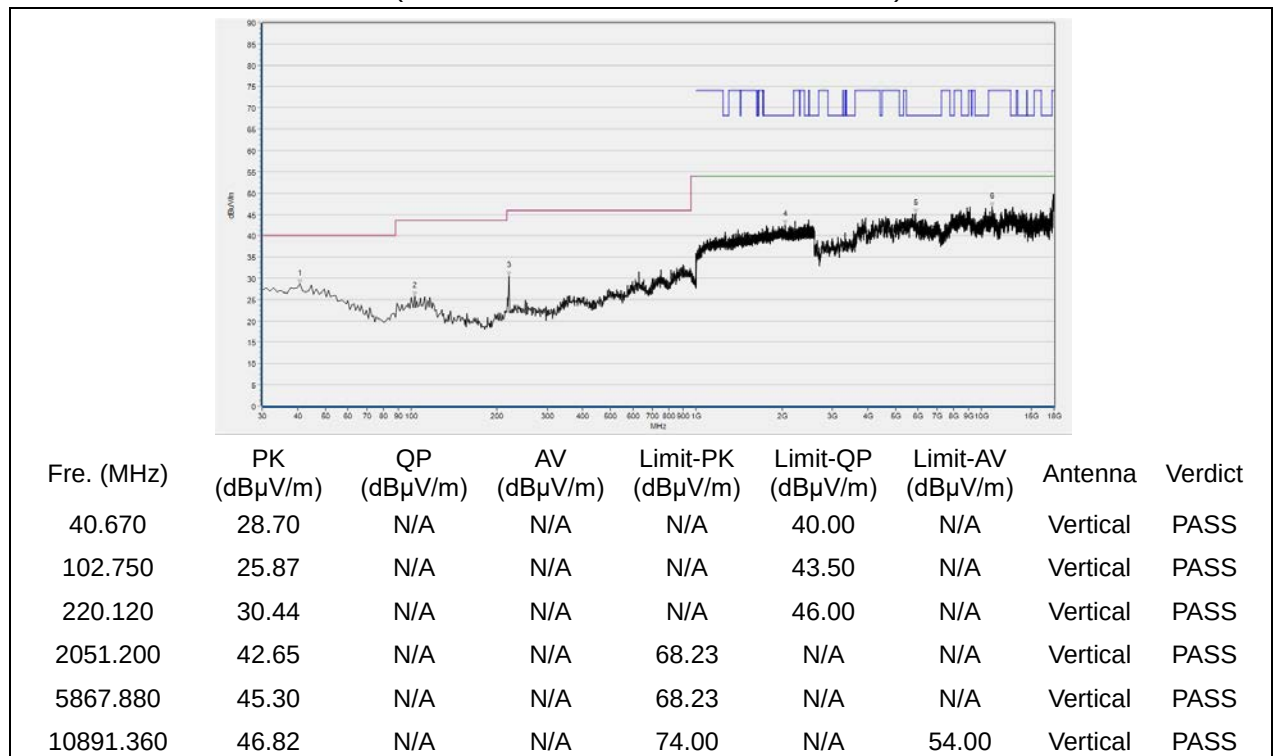


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126

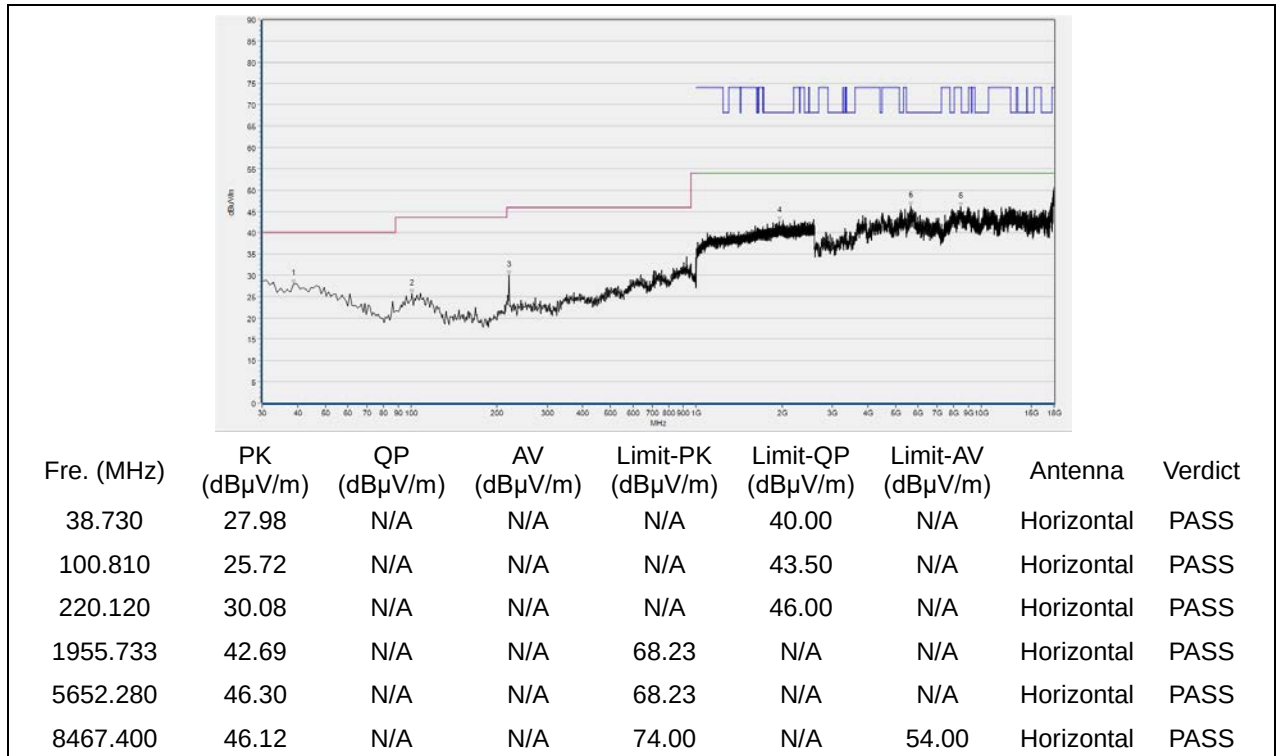


(Antenna Horizontal, 30MHz to 18GHz)

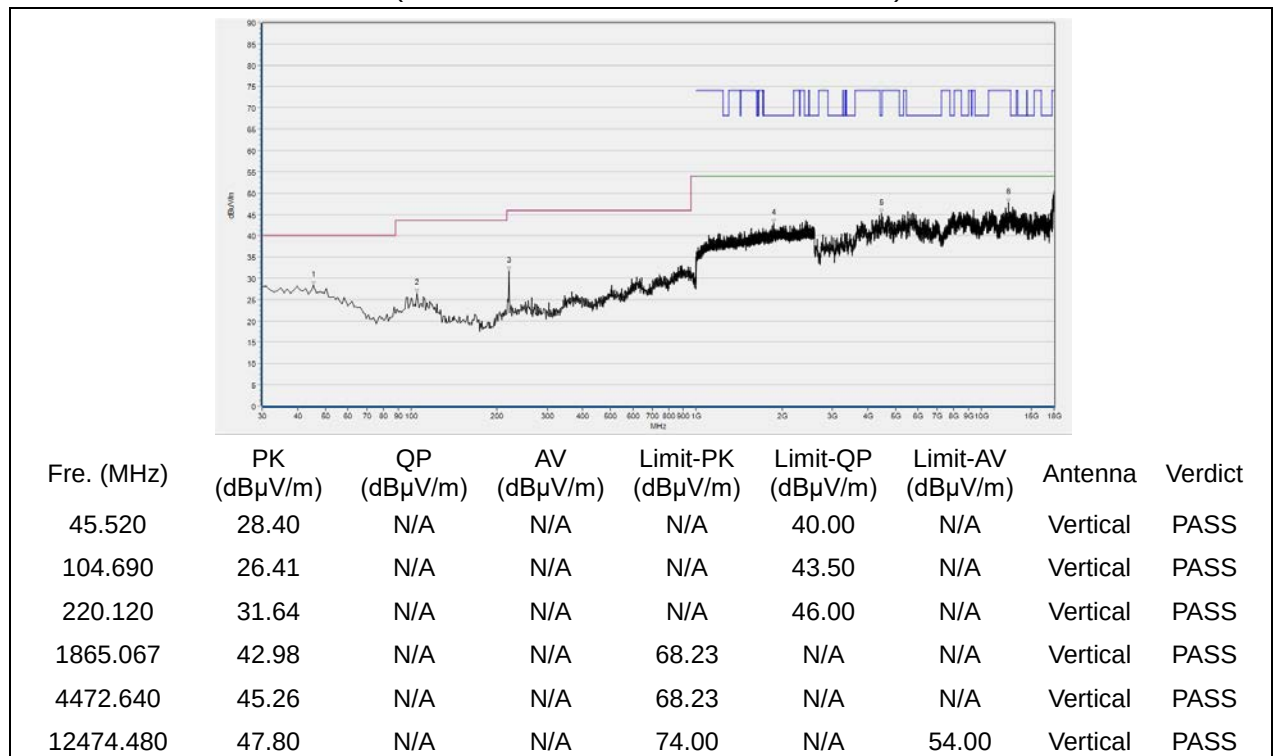


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142

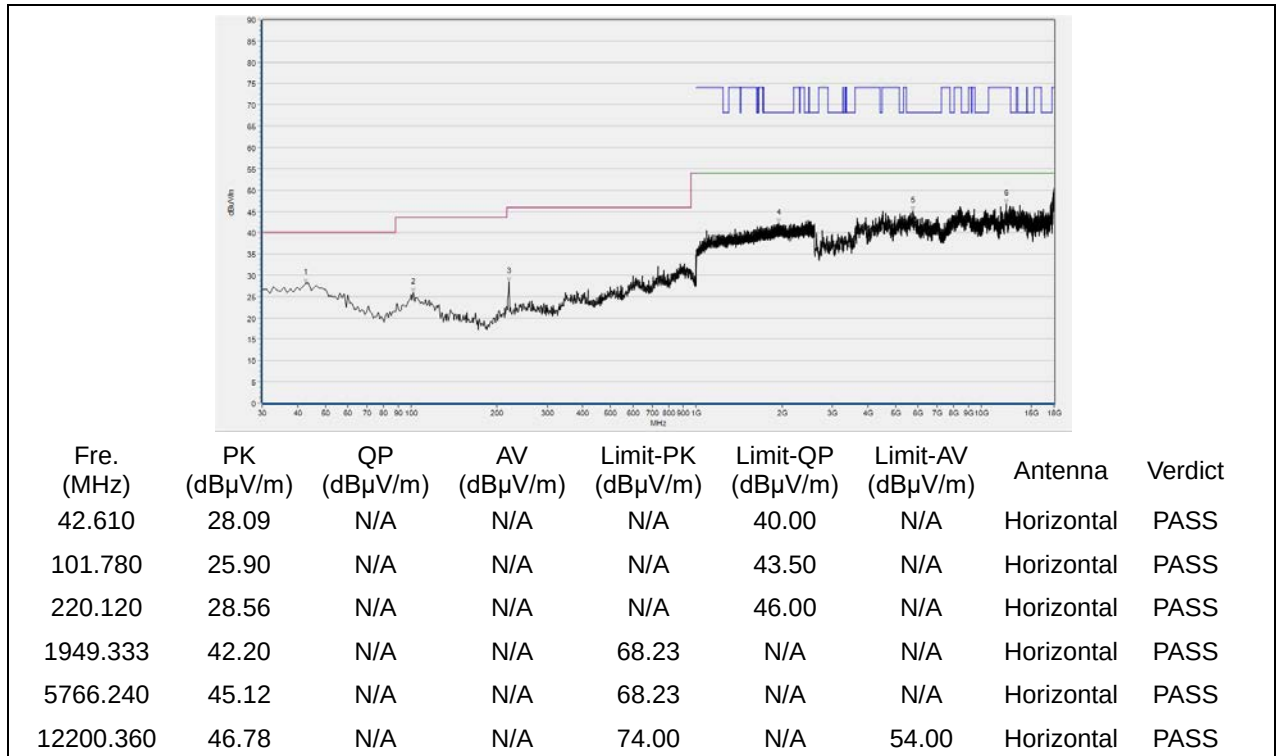


(Antenna Horizontal, 30MHz to 18GHz)

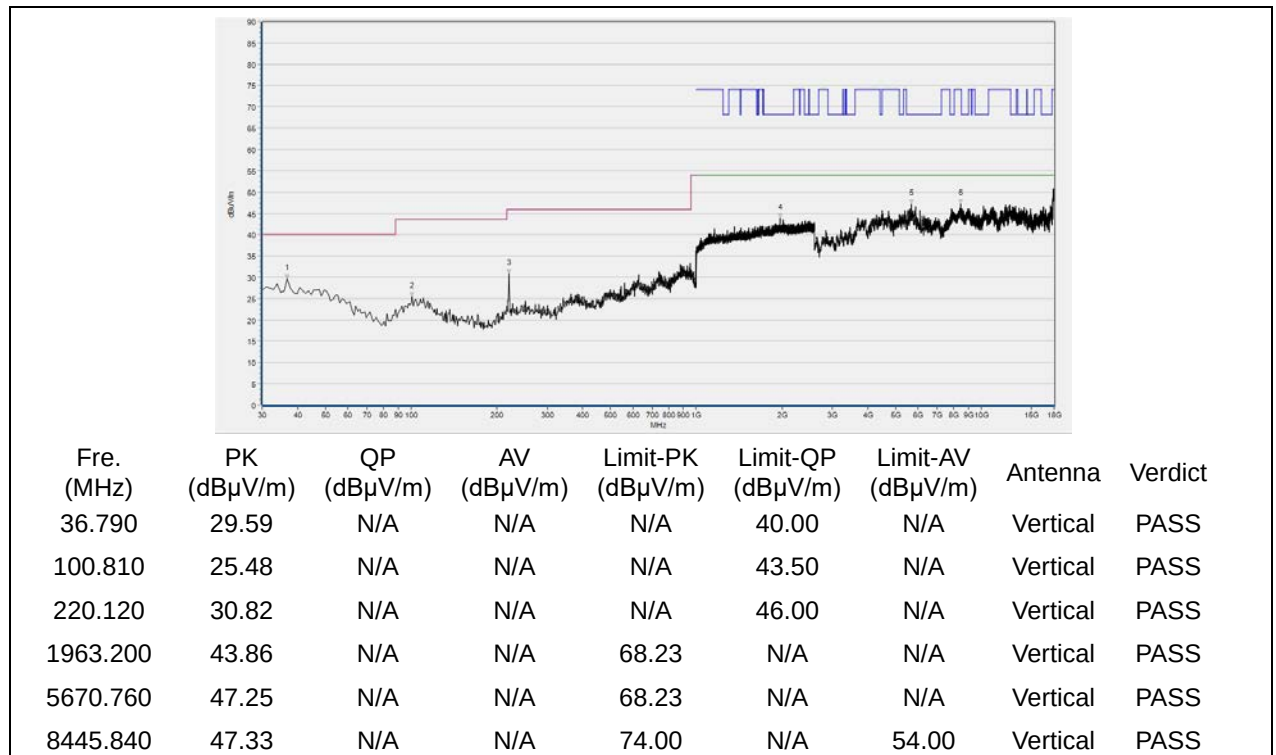


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151

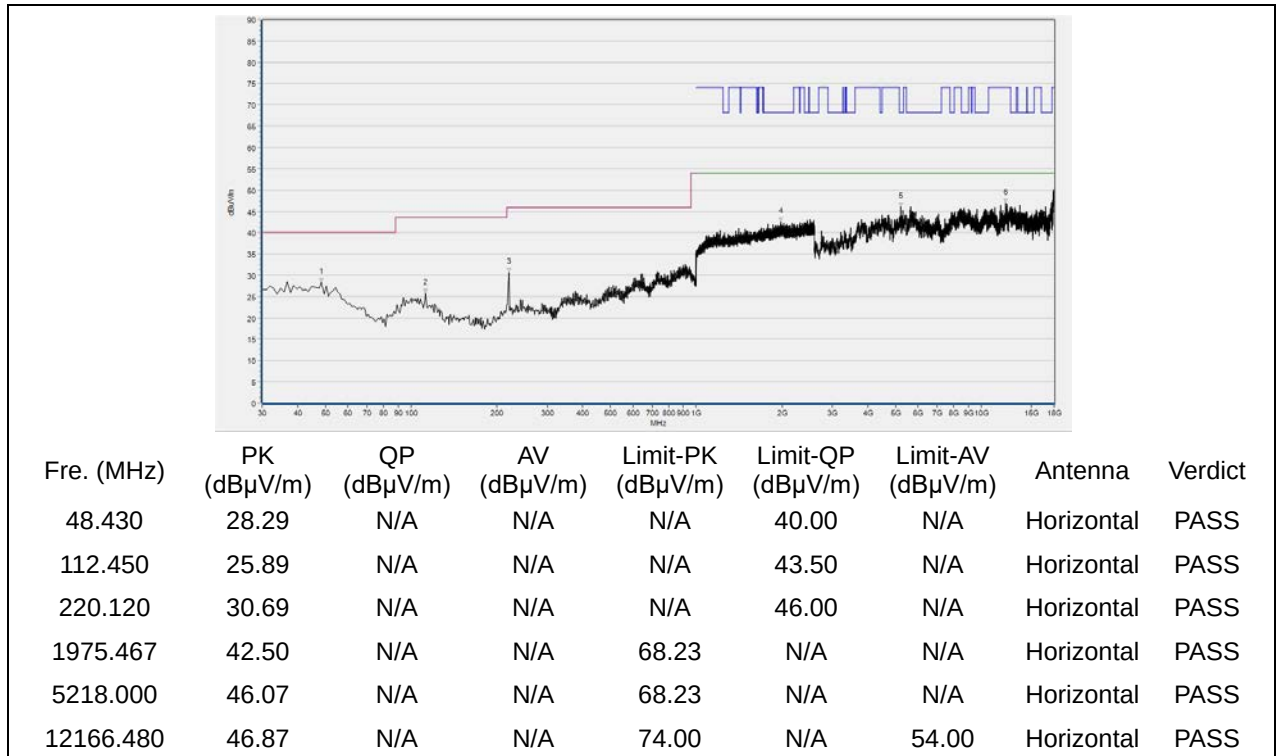


(Antenna Horizontal, 30MHz to 18GHz)

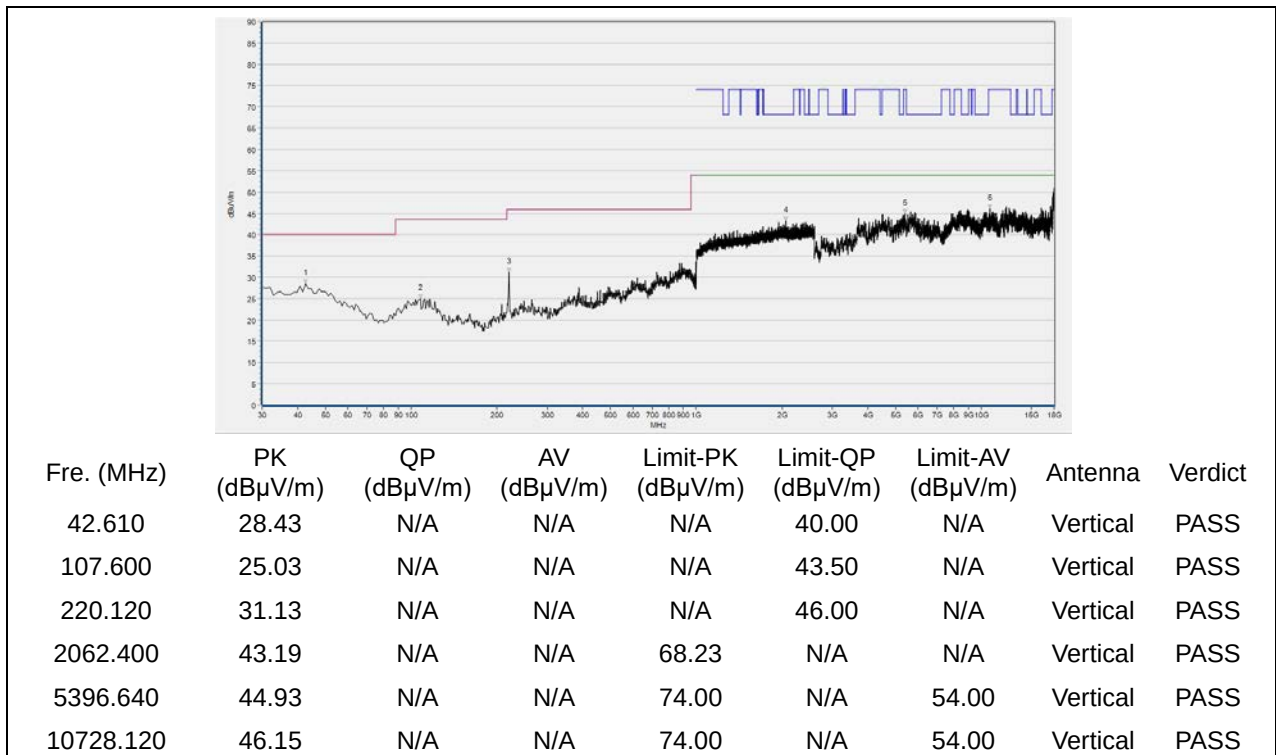


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



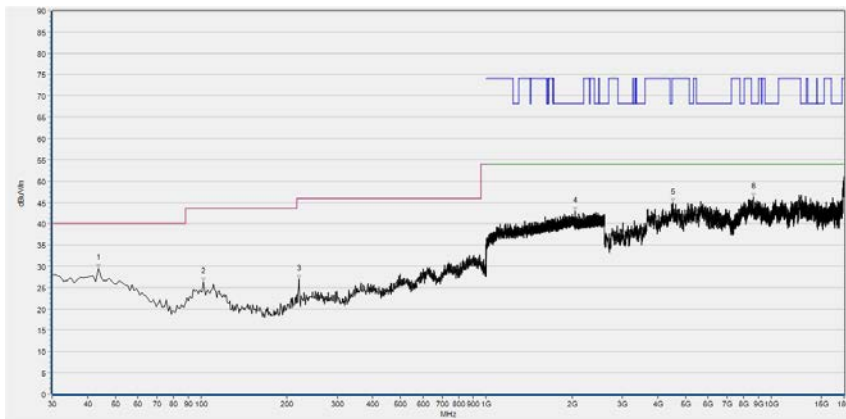
(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)

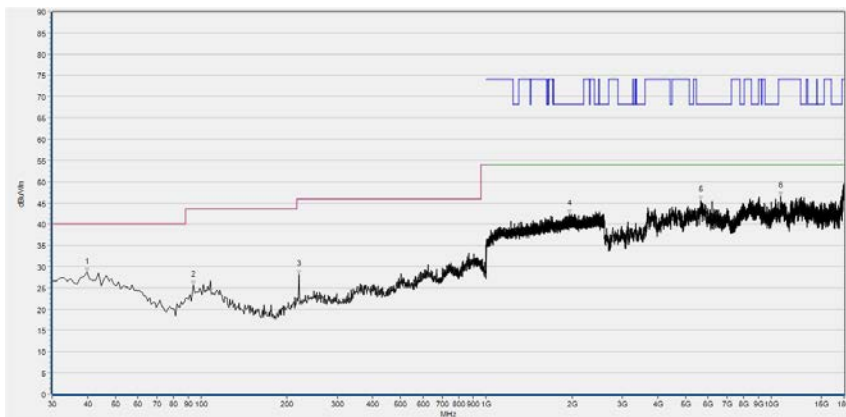
**802.11ac (VHT80) Mode**

Plot for Channel 42



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.580	29.51	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
101.780	26.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.120	27.01	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2053.333	42.95	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4515.760	44.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8633.720	46.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

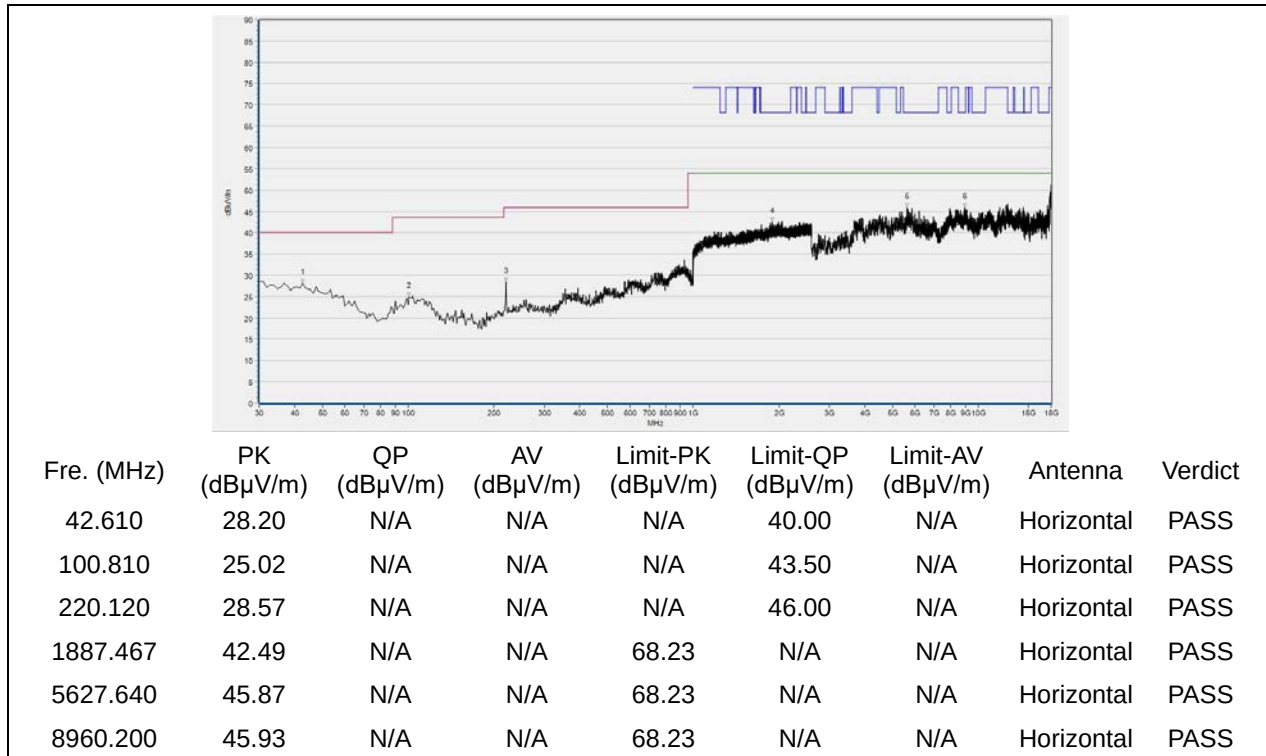
(Antenna Horizontal, 30MHz to 18GHz)



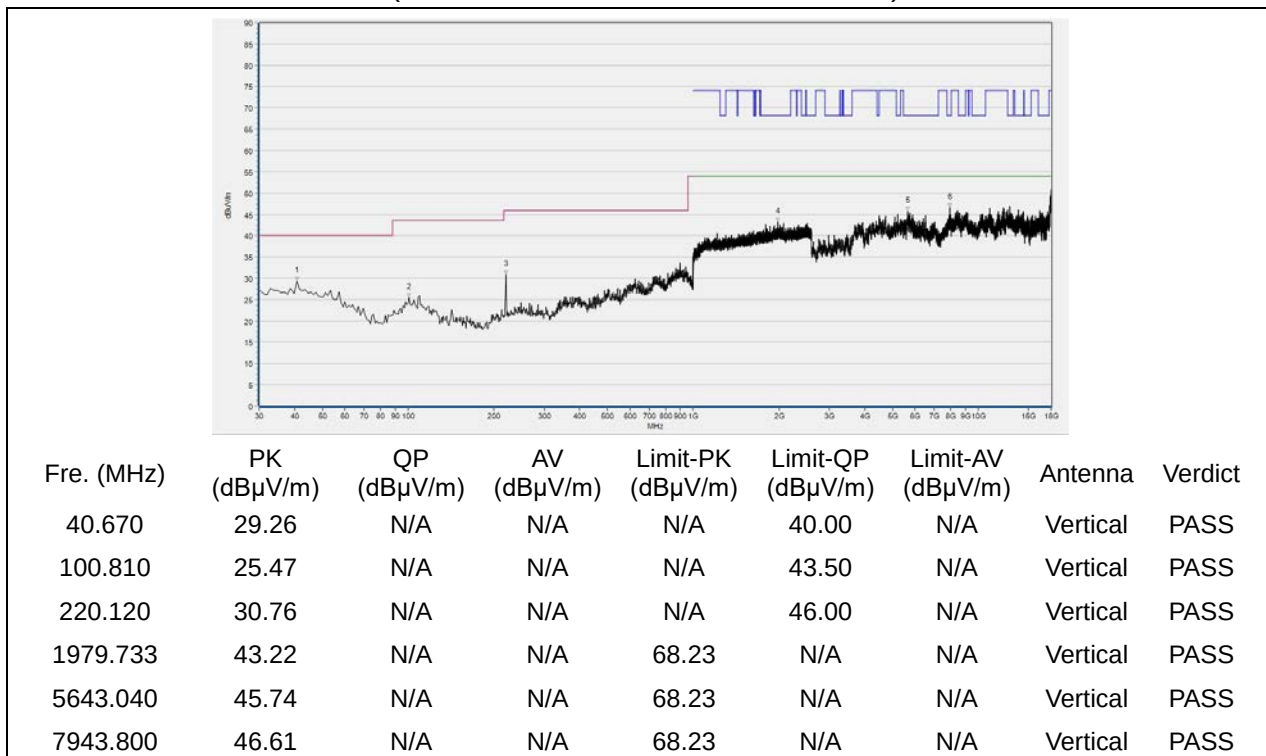
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
39.700	28.68	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
94.020	25.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.120	28.13	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1961.067	42.44	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5664.600	45.62	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10808.200	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58

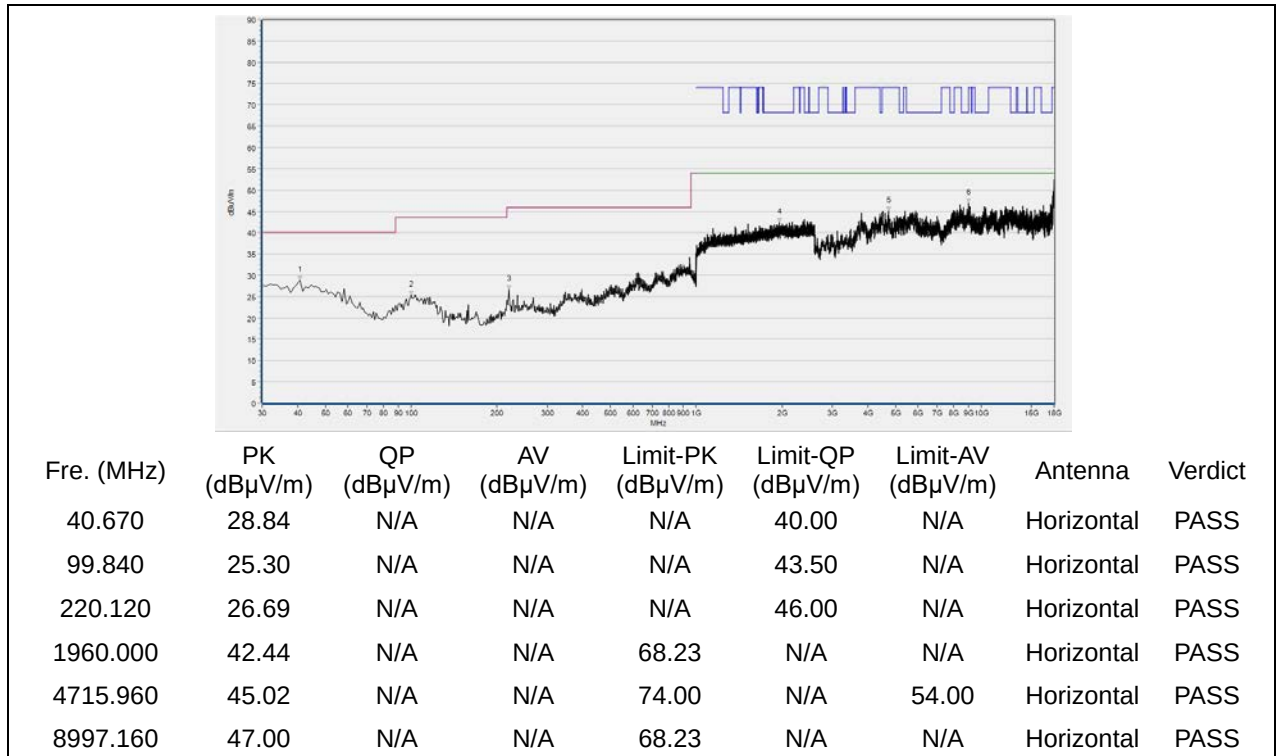


(Antenna Horizontal, 30MHz to 18GHz)

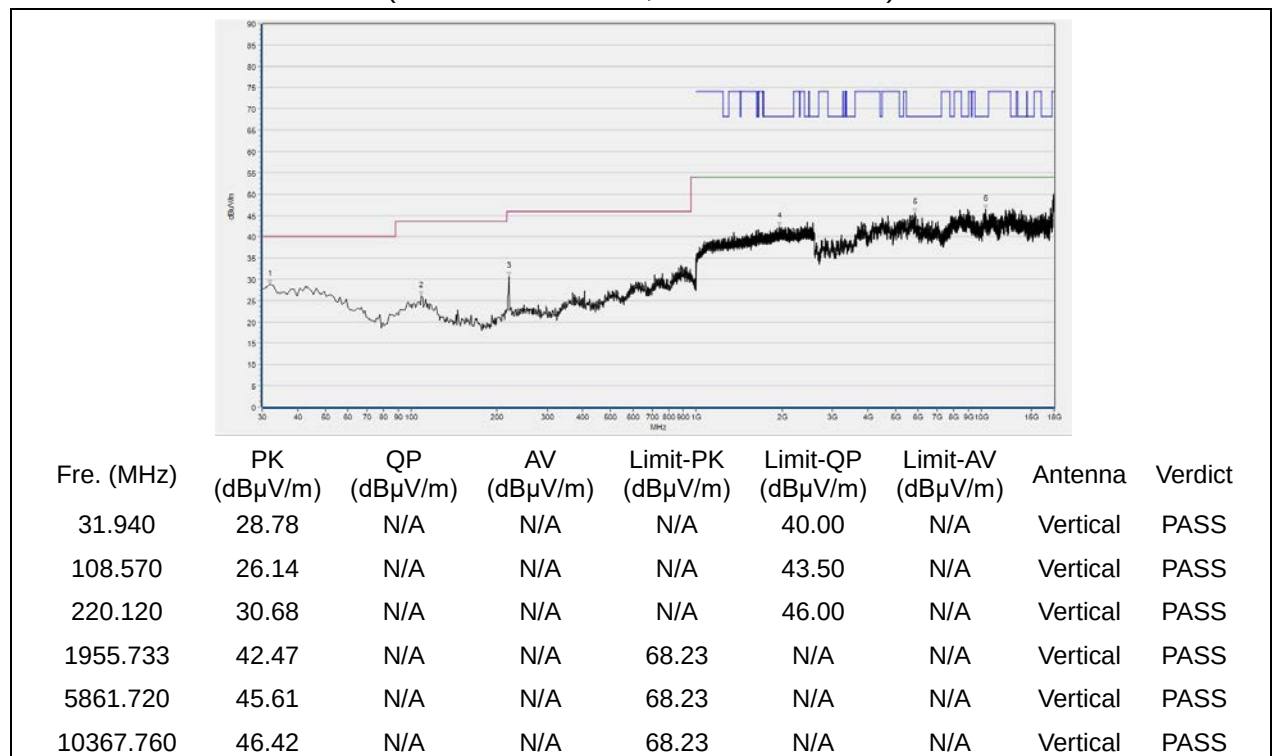


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106

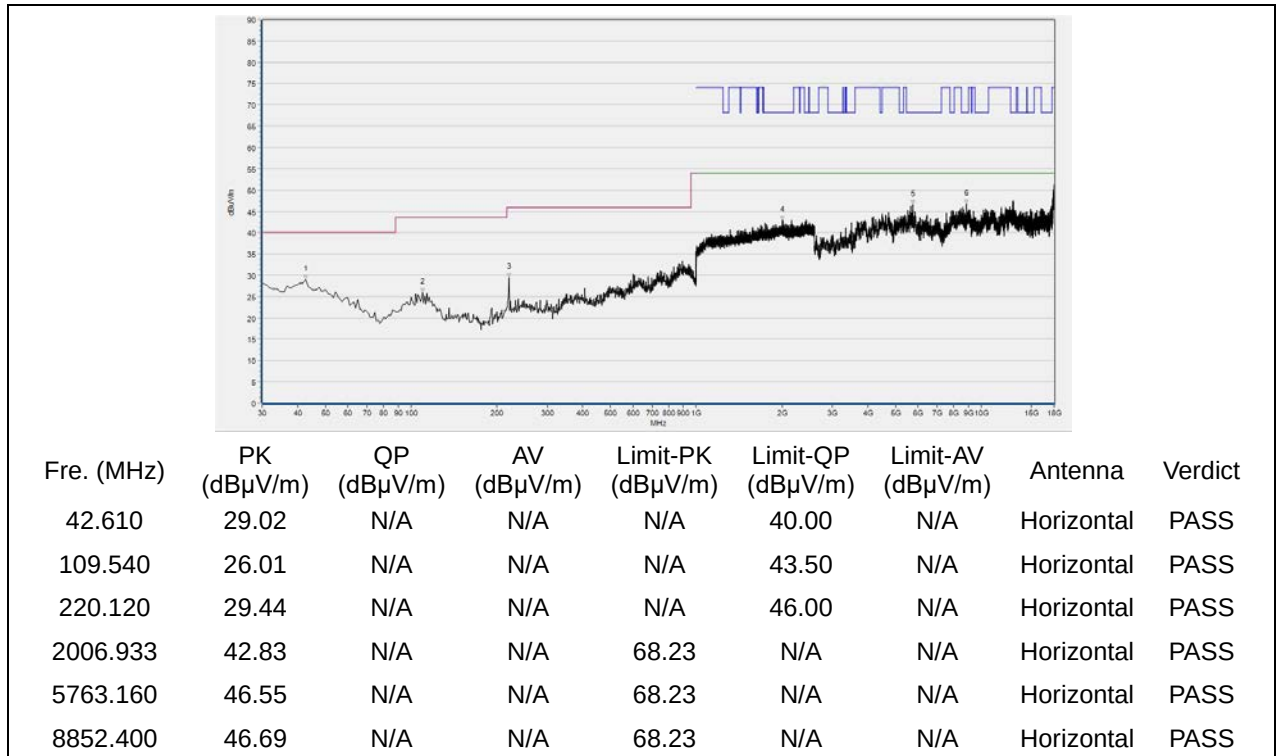


(Antenna Horizontal, 30MHz to 18GHz)

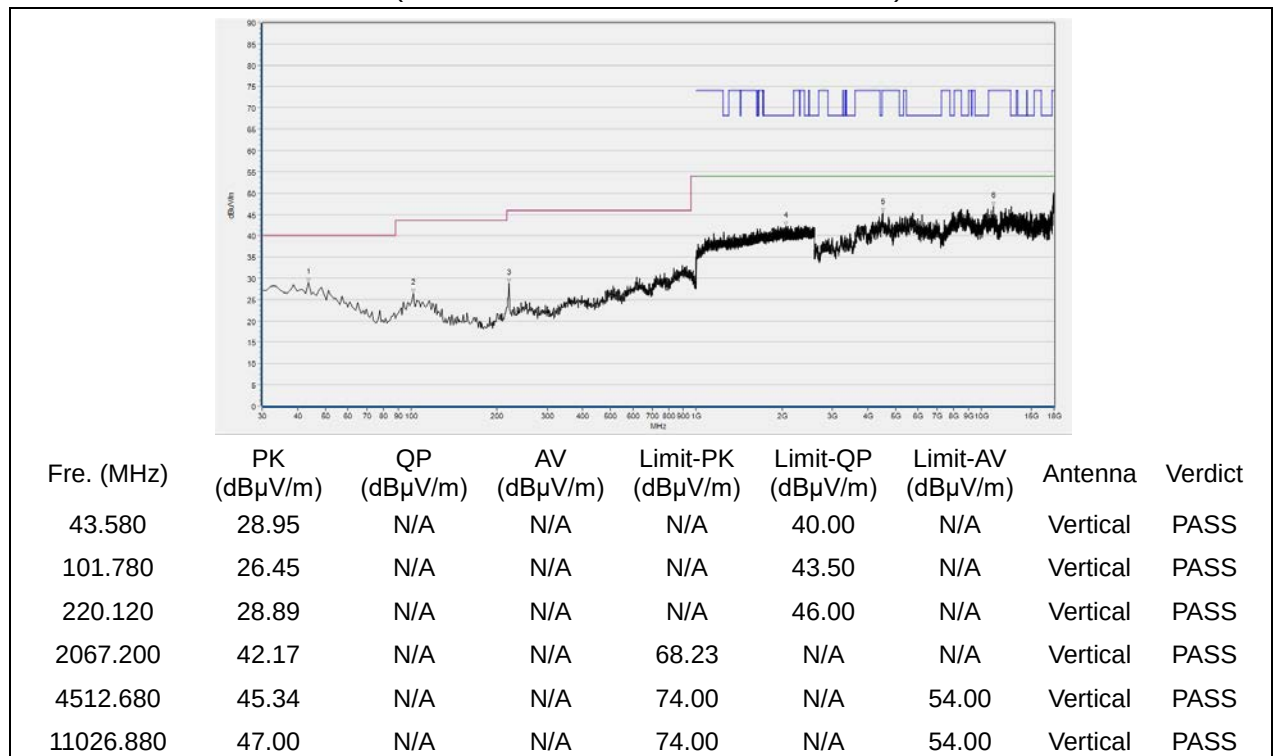


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122

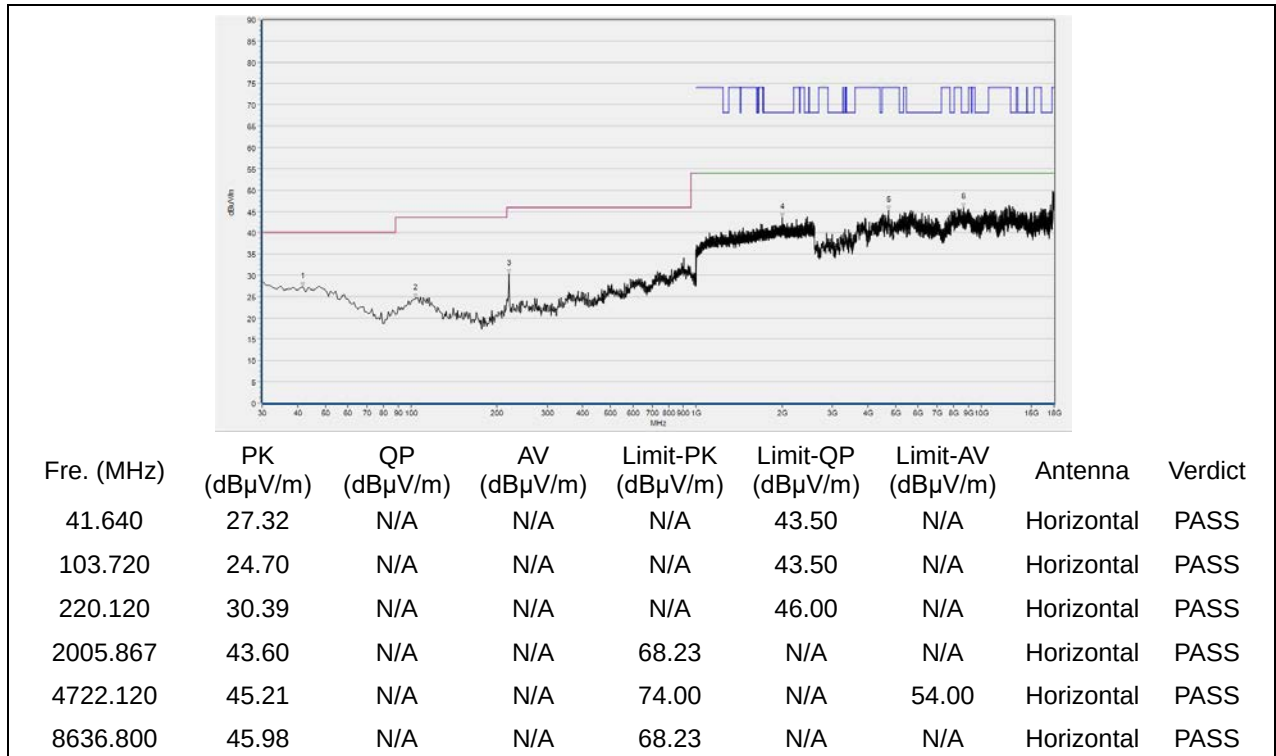


(Antenna Horizontal, 30MHz to 18GHz)

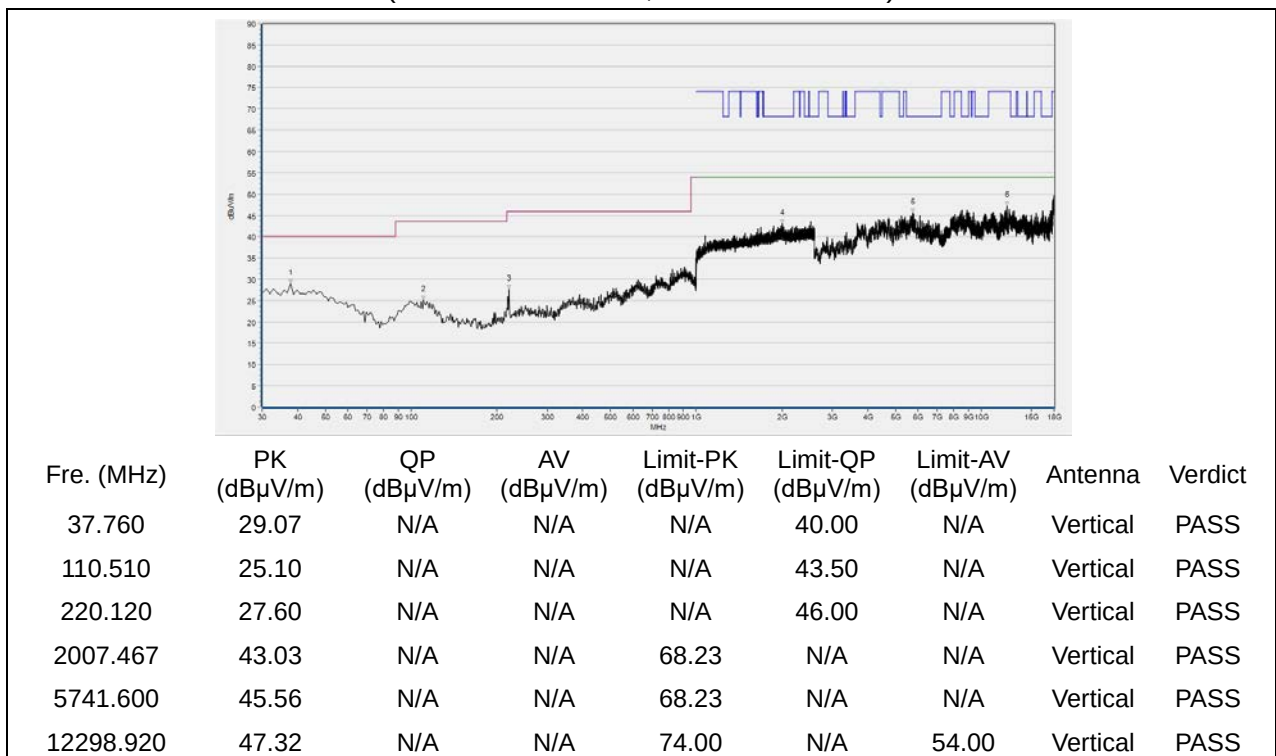


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138

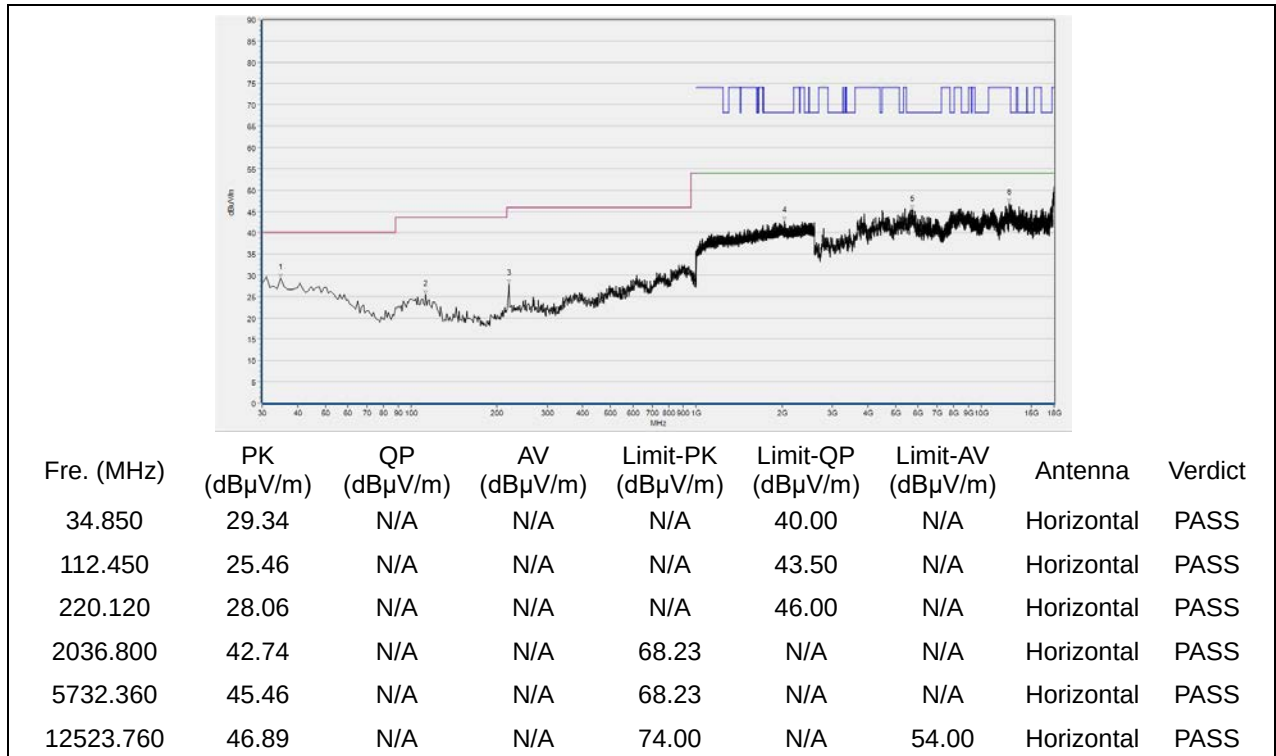


(Antenna Horizontal, 30MHz to 18GHz)

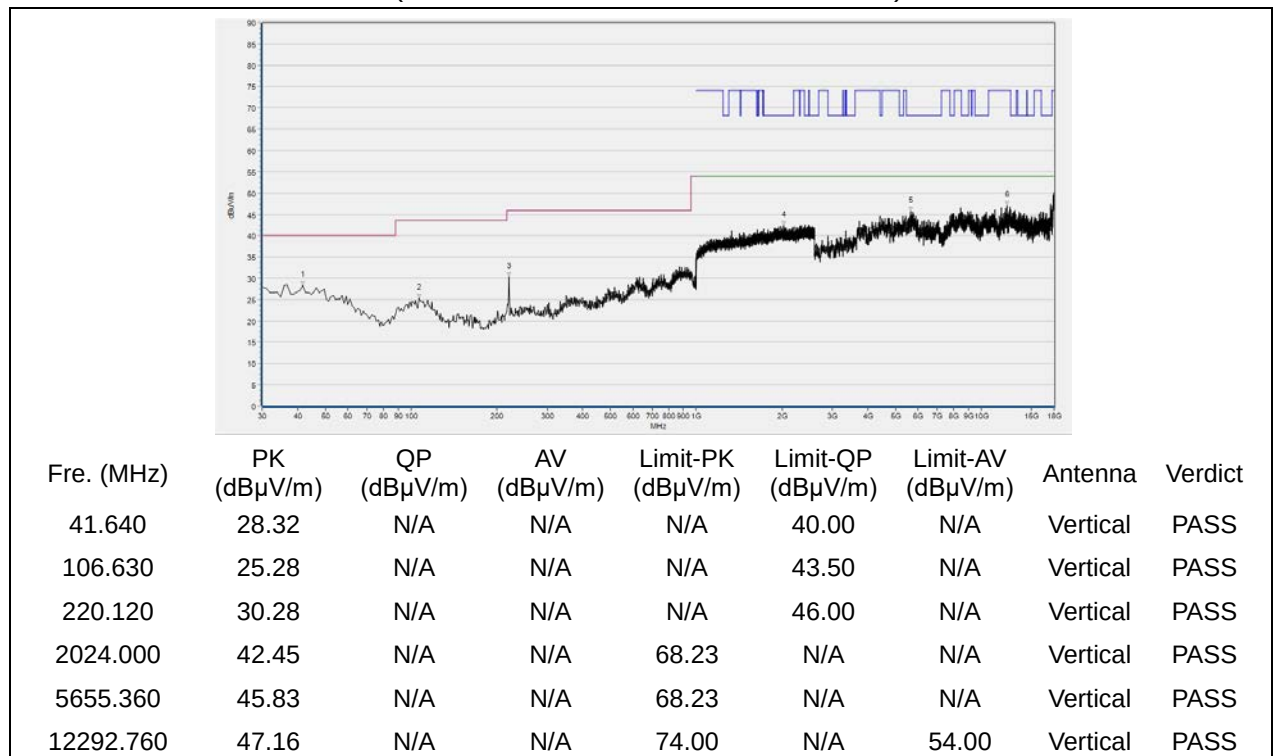


(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



(Antenna Horizontal, 30MHz to 18GHz)



(Antenna Vertical, 30MHz to 18GHz)



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Peak Output Power	$\pm 2.22\text{dB}$
Power spectral density (PSD)	$\pm 2.22\text{dB}$
Bandwidth	$\pm 5\%$
Restricted Frequency Bands	$\pm 5\%$
Radiated Emission	$\pm 2.95\text{dB}$
Conducted Emission	$\pm 2.44\text{dB}$

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	N/A	10dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2020.04.01	2021.03.31
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2020.04.01	2021.03.31
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	12108015	DTL-003S101	YOMA	2020.01.08	2021.01.07

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2020.03.26	2021.03.25
LISN	812744	NSLK 8127	Schwarzbeck	2020.03.26	2021.03.25
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2020.07.24	2021.07.23
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
Computer	DF2DR A01 DPC	VOSTRO 5370	DELL	N/A	N/A
PC Adapter	N/A	LA45NM1 40	LITEON	N/A	N/A

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.6
Power Panel	Agilent	V3.8
MORLAB EMCR V1.2	MORLAB	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**4.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2020.07.21	2021.07.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	BBHA9170 #774	BBHA 9170	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.02.14	2022.02.13
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L32 03	Tonscend	2020.07.21	2021.07.20
18-26.5GHz pre-Amplifier	46732	S10M100L38 02	Tonscend	2020.07.21	2021.07.20
26-40GHz pre-Amplifier	56774	S40M400L40 02	Tonscend	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2020.07.21	2021.07.20



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Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

_____ END OF REPORT _____