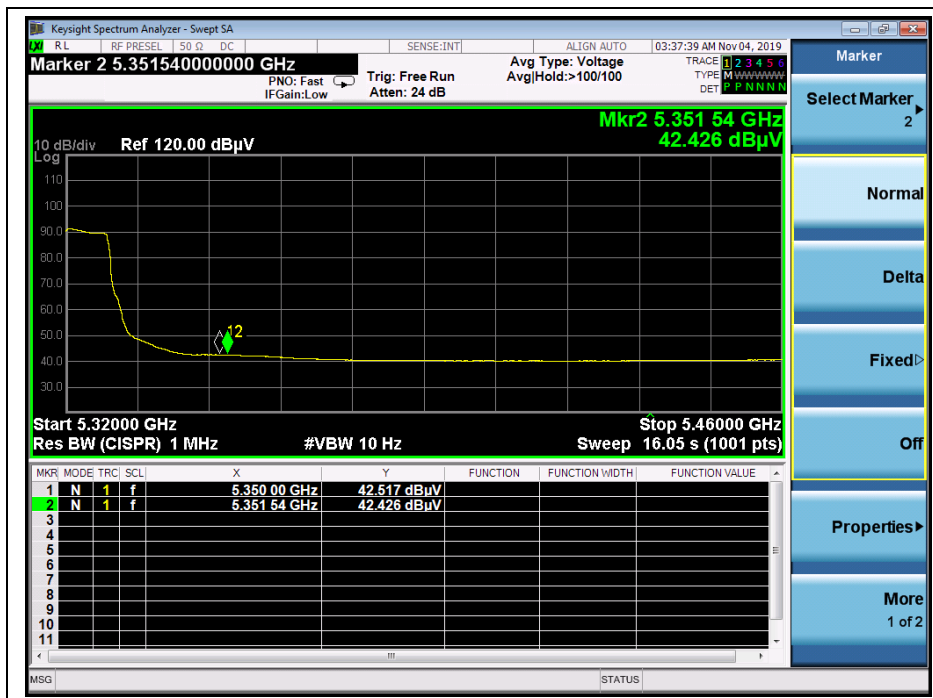
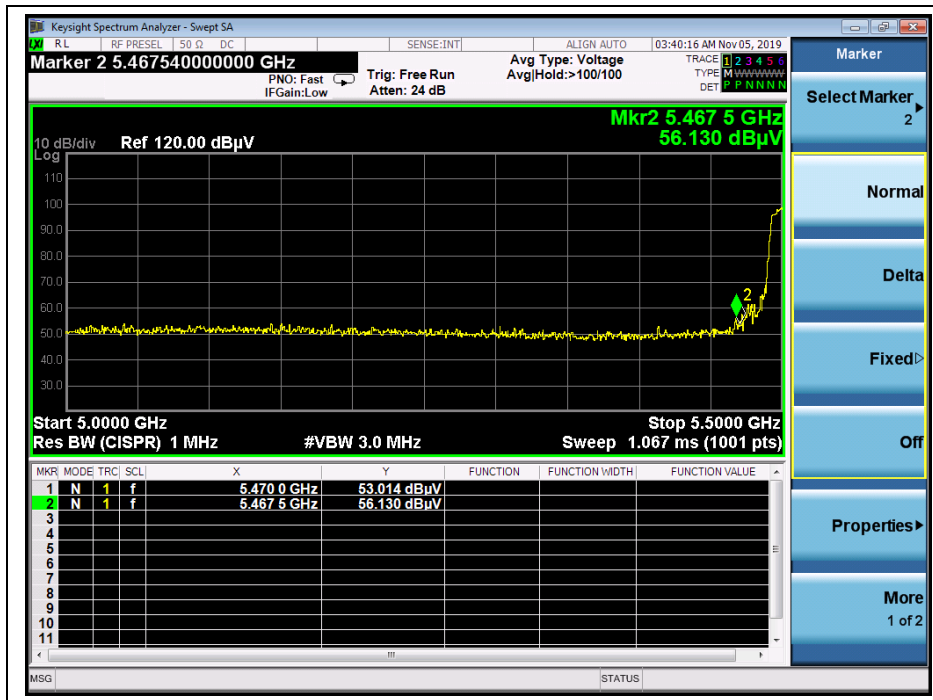


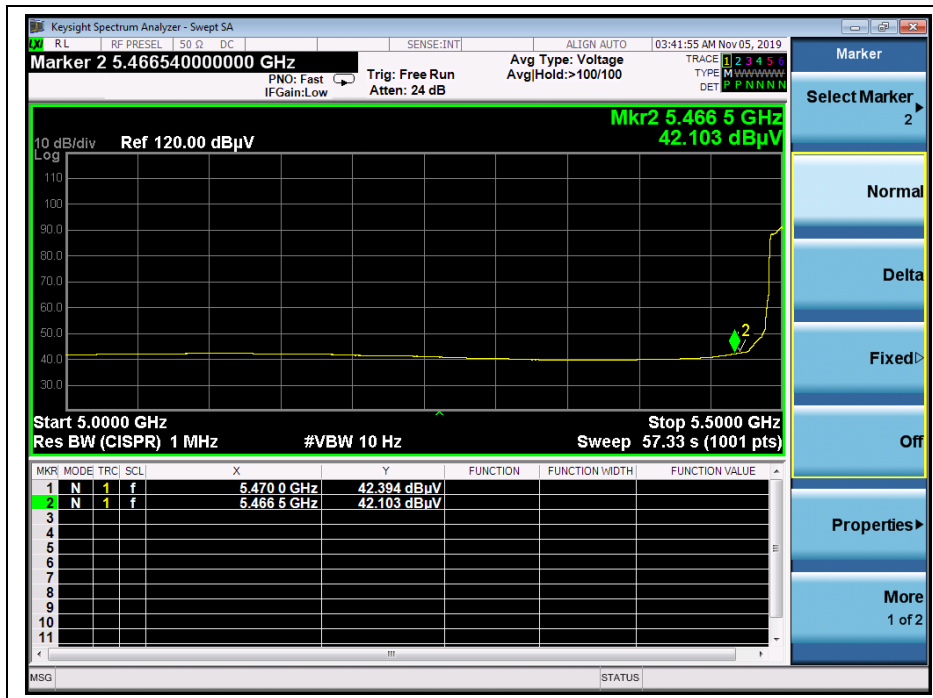
(Channel 64, PEAK, 802.11a)



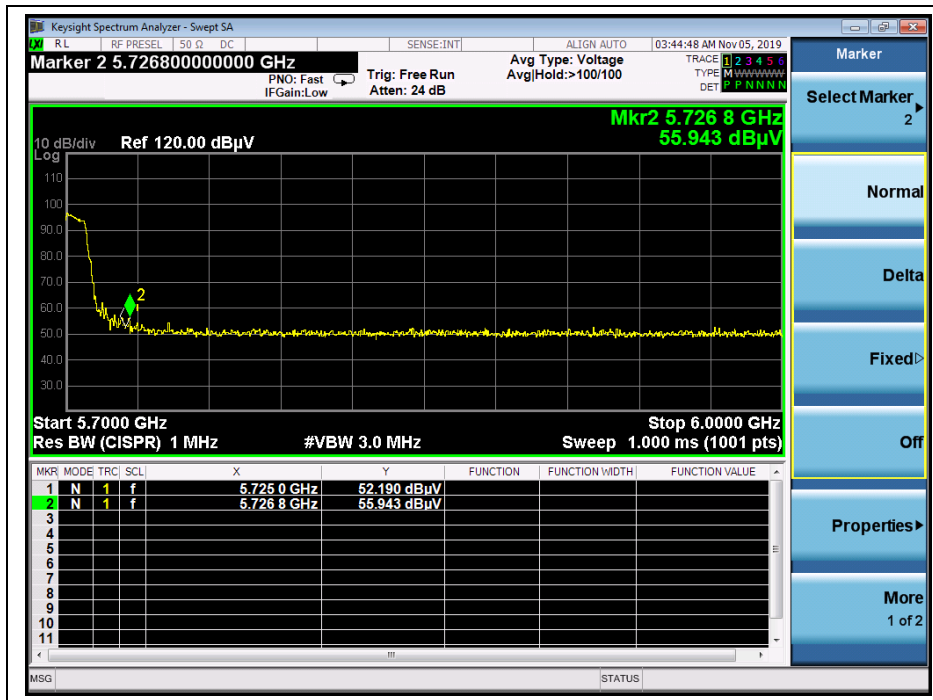
(Channel 64, AVG, 802.11a)



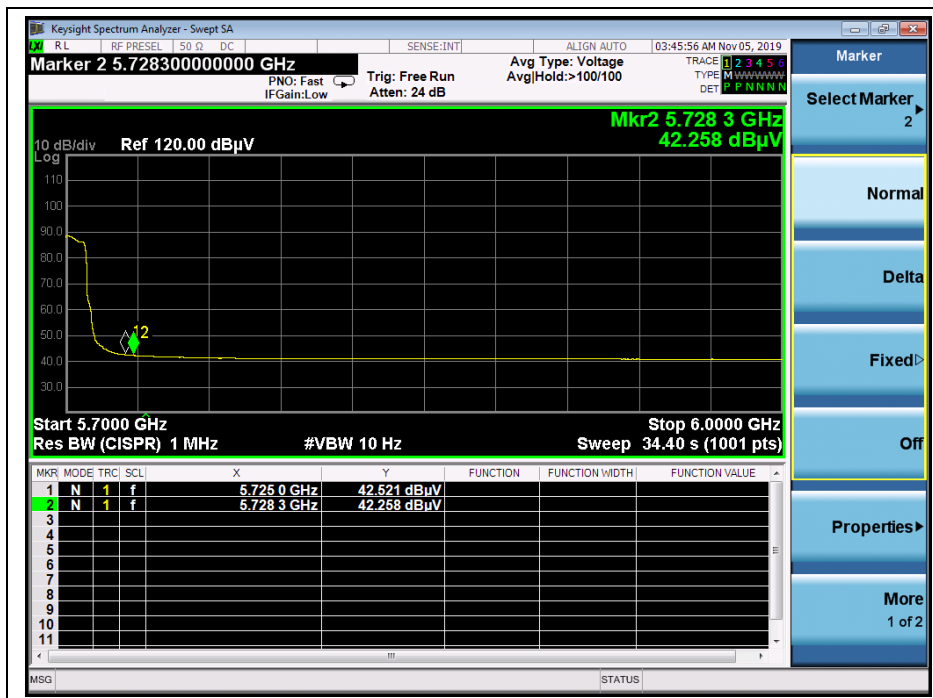
(Channel 100, PEAK, 802.11a)



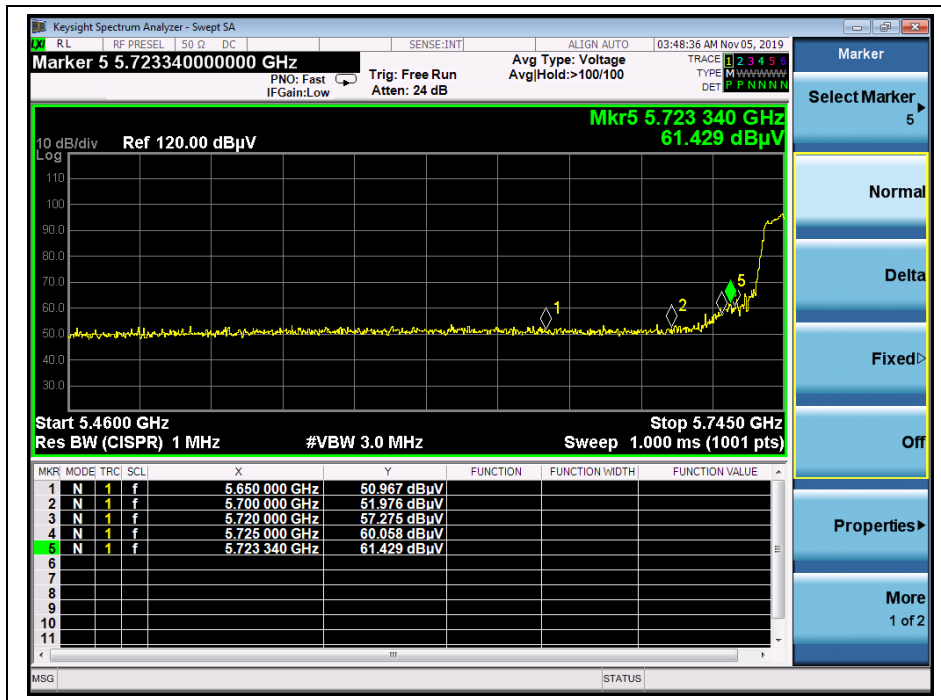
(Channel 100, AVG, 802.11a)



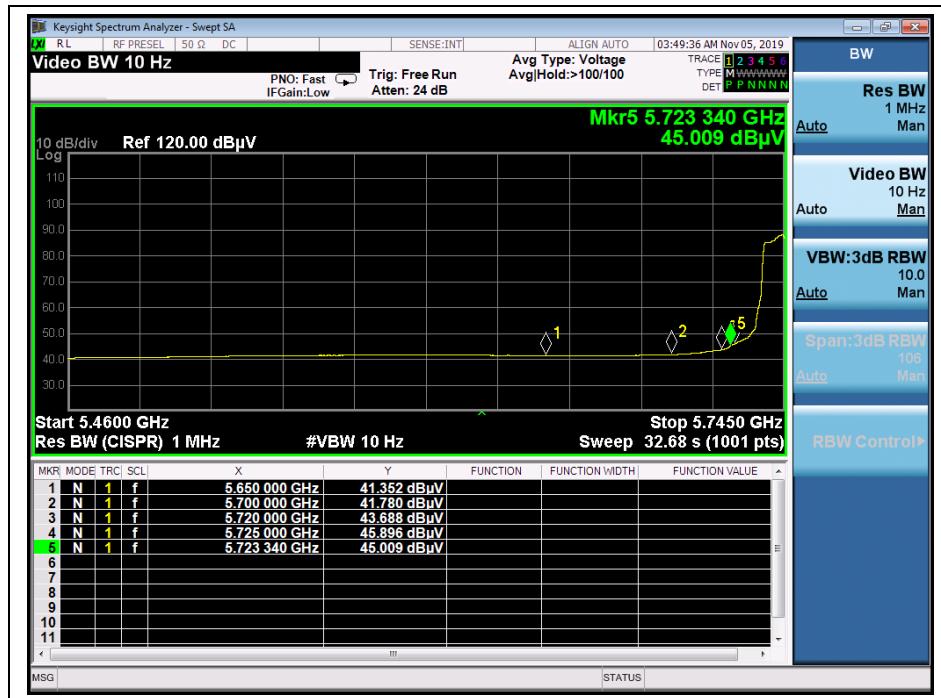
(Channel 144, PEAK, 802.11a)



(Channel 144, AVG, 802.11a)



(Channel 149, PEAK, 802.11a)



(Channel 149, AVG, 802.11a)



(Channel 165, PEAK, 802.11a)

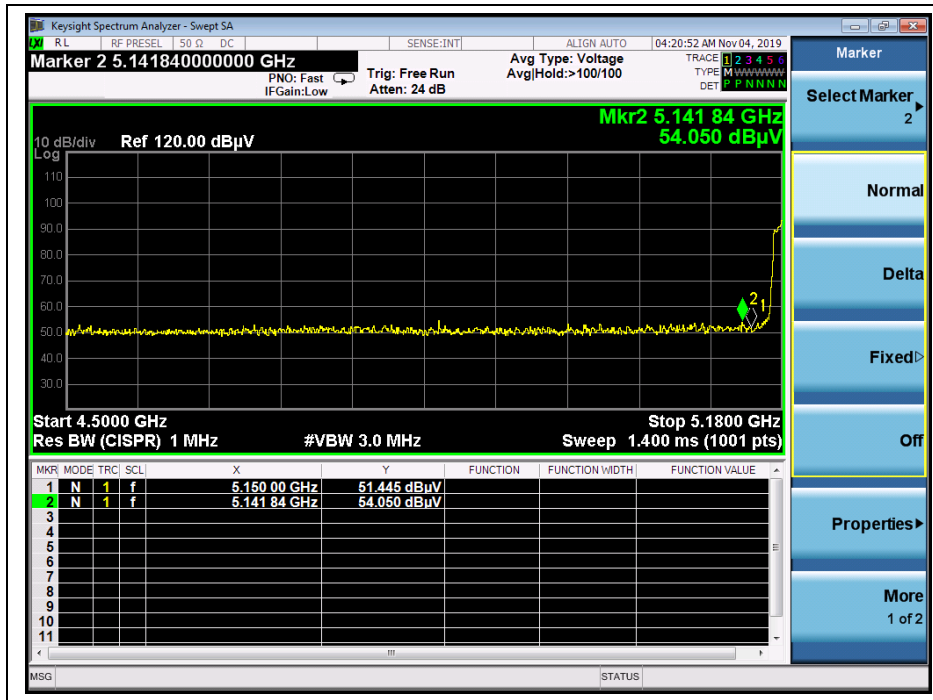


(Channel 165, AVG, 802.11a)

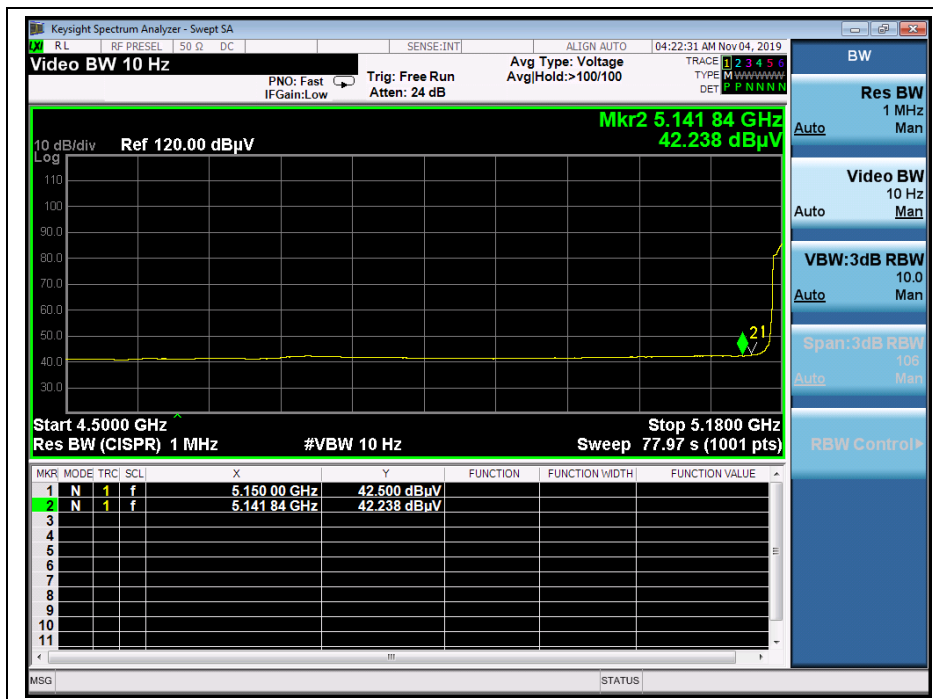
**802.11n (HT20) Test mode****A. Test Verdict:**

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
36	5141.84	PK	54.05	-26.92	32.20	59.33	74	PASS
36	5150.00	AV	42.50	-26.92	32.20	47.78	54	PASS
64	5354.34	PK	51.83	-26.80	32.20	57.23	74	PASS
64	5350.00	AV	40.36	-26.80	32.20	45.76	54	PASS
100	5468.00	PK	53.04	-26.64	32.20	58.60	68.23	PASS
100	5470.00	AV	41.95	-26.64	32.20	47.51	54	PASS
144	5733.00	PK	52.44	-26.64	32.20	58.00	68.23	PASS
144	5725.00	AV	41.84	-26.64	32.20	47.40	54	PASS
149	5725.00	PK	61.89	-26.23	32.20	67.86	122.23	PASS
149	5725.00	AV	43.49	-26.23	32.20	49.46	54	PASS
165	5851.78	PK	55.57	-26.23	32.20	61.54	118.17	PASS
165	5850.00	AV	42.39	-26.23	32.20	48.36	54	PASS

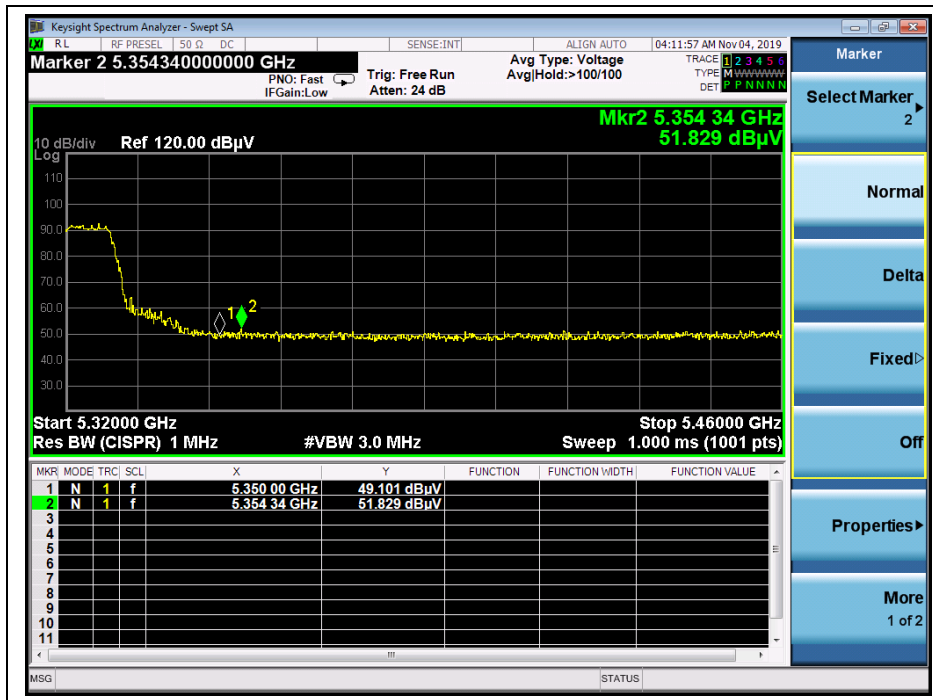
B. Test Plots:



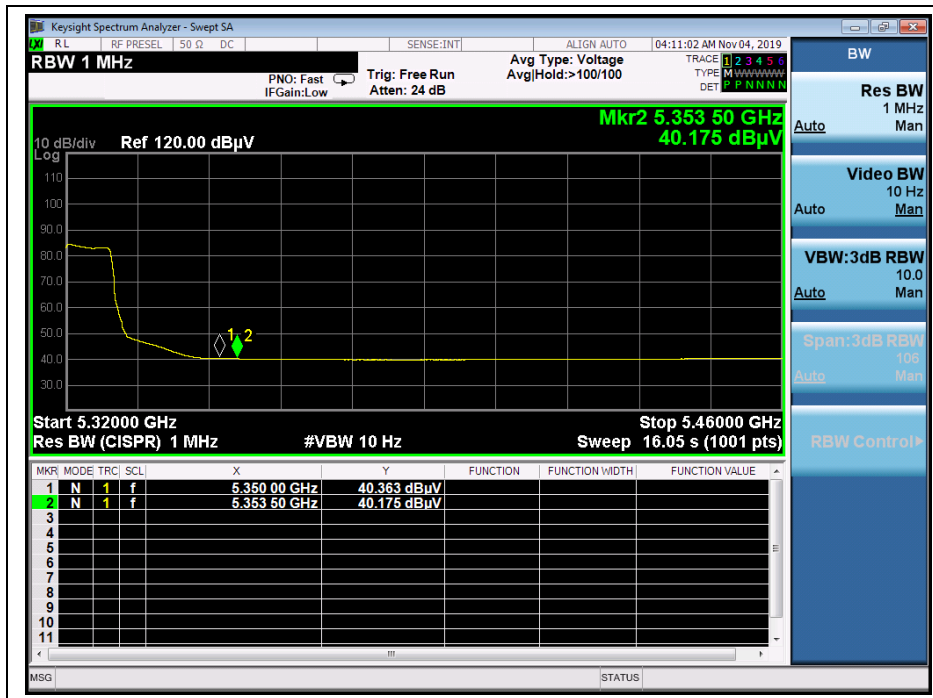
(Channel 36, PEAK, 802.11n (HT20))



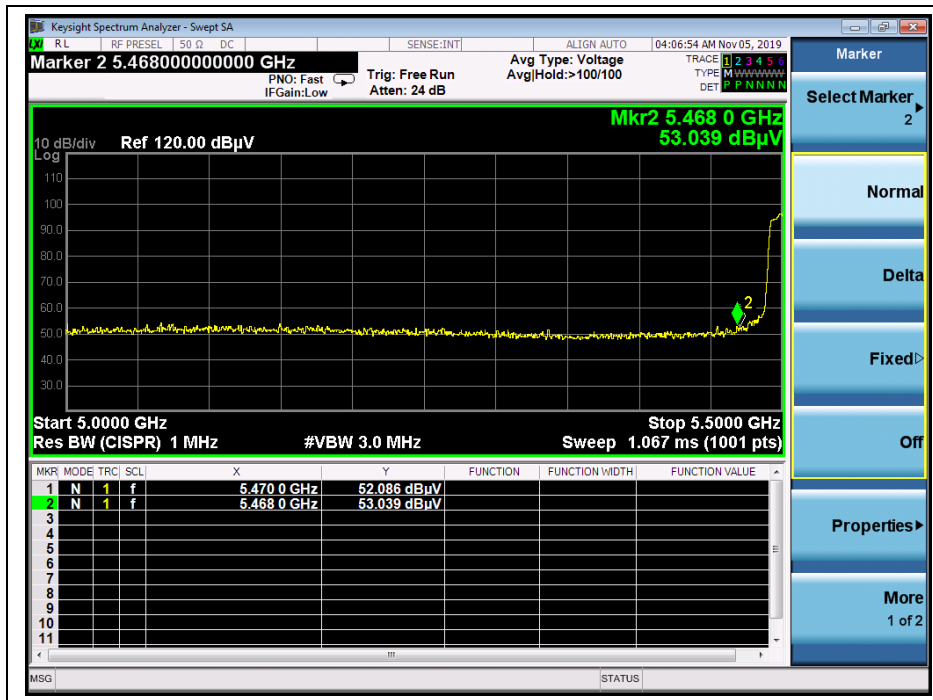
(Channel 36, AVG, 802.11 n (HT20))



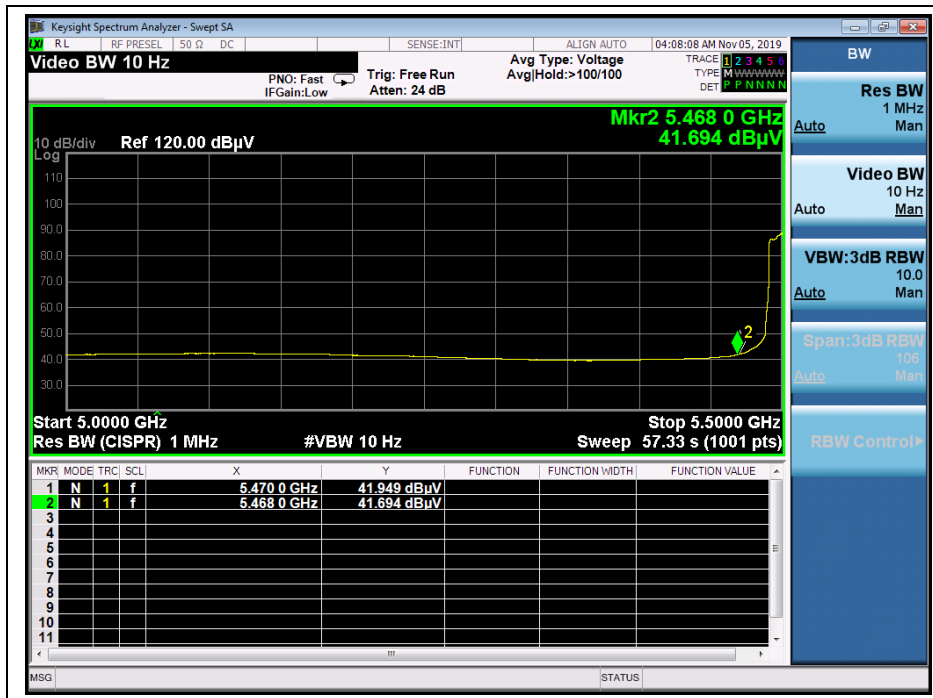
(Channel 64, PEAK, 802.11 n (HT20))



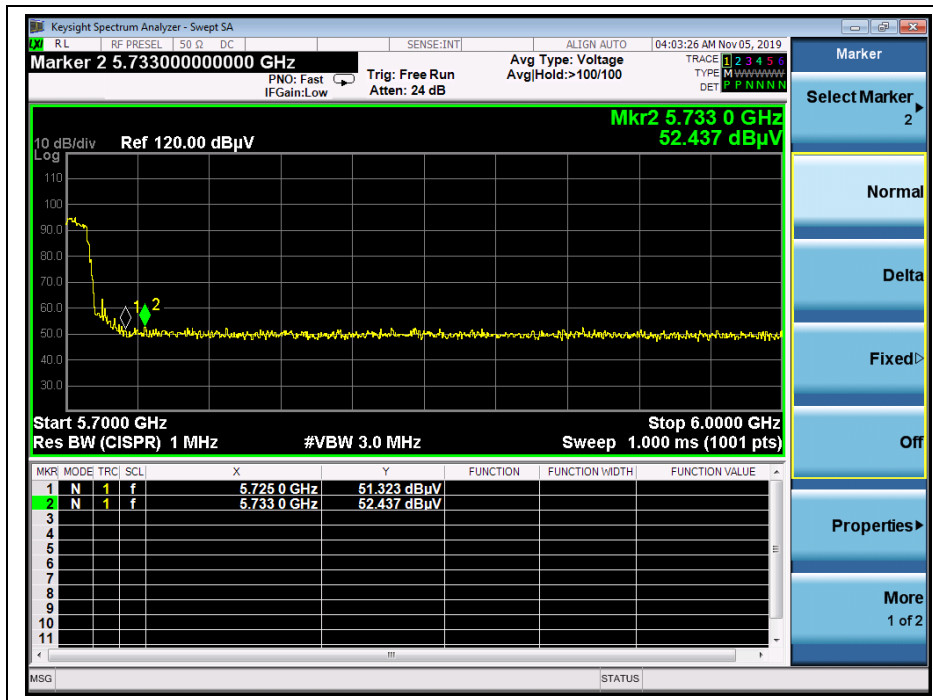
(Channel 64, AVG, 802.11n (HT20))



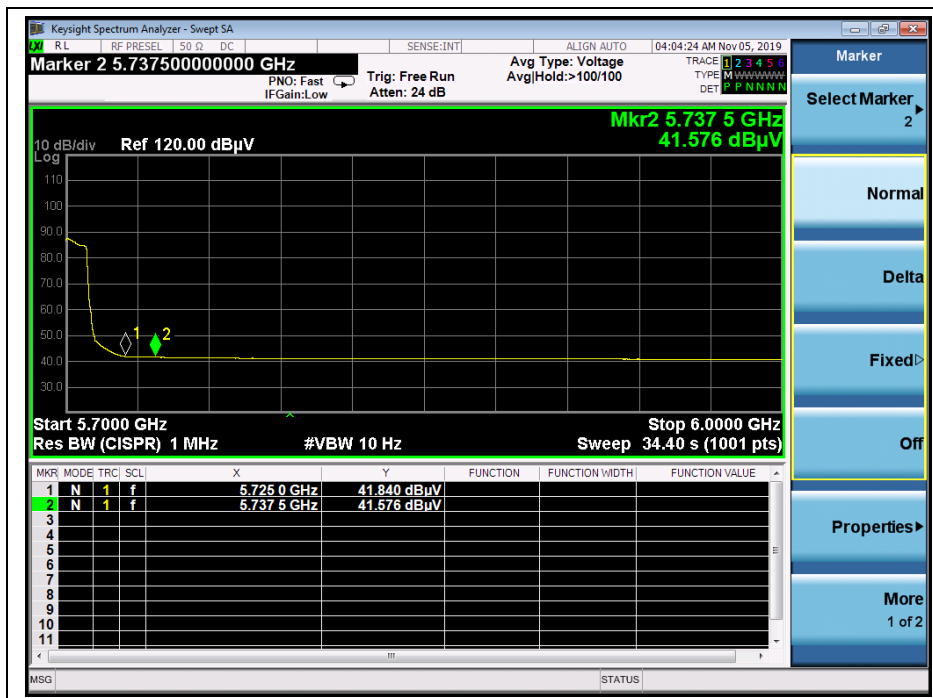
(Channel 100, PEAK, 802.11 n (HT20))



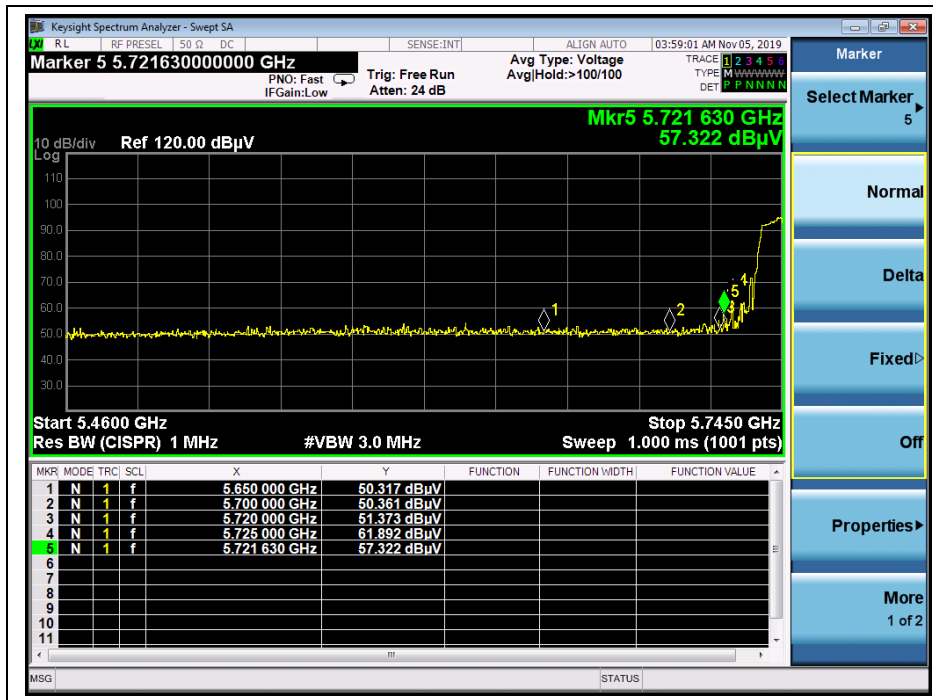
(Channel 100, AVG, 802.11n (HT20))



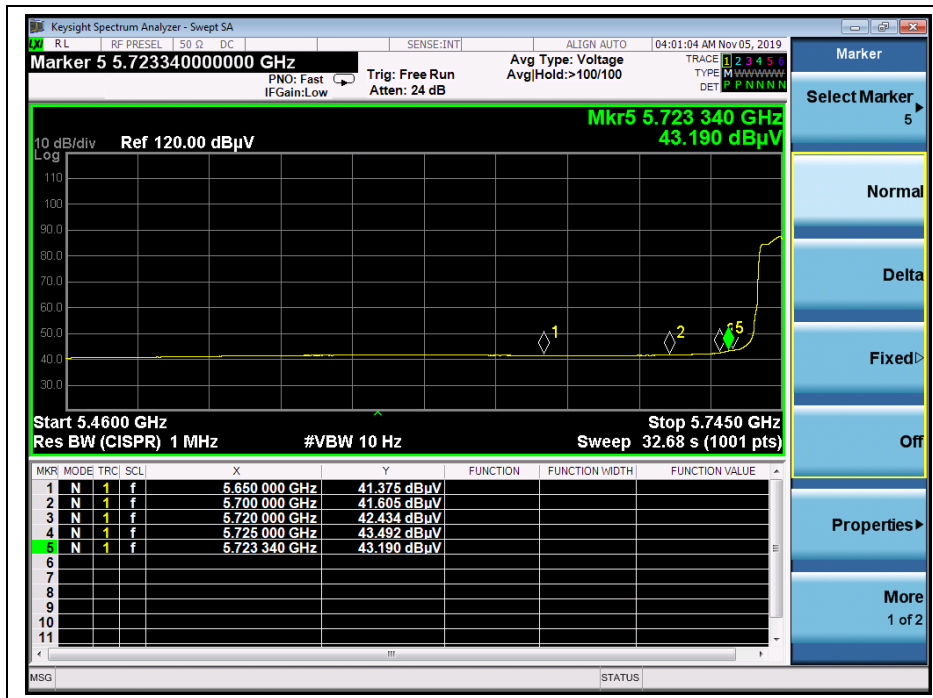
(Channel 144, PEAK, 802.11 n (HT20))



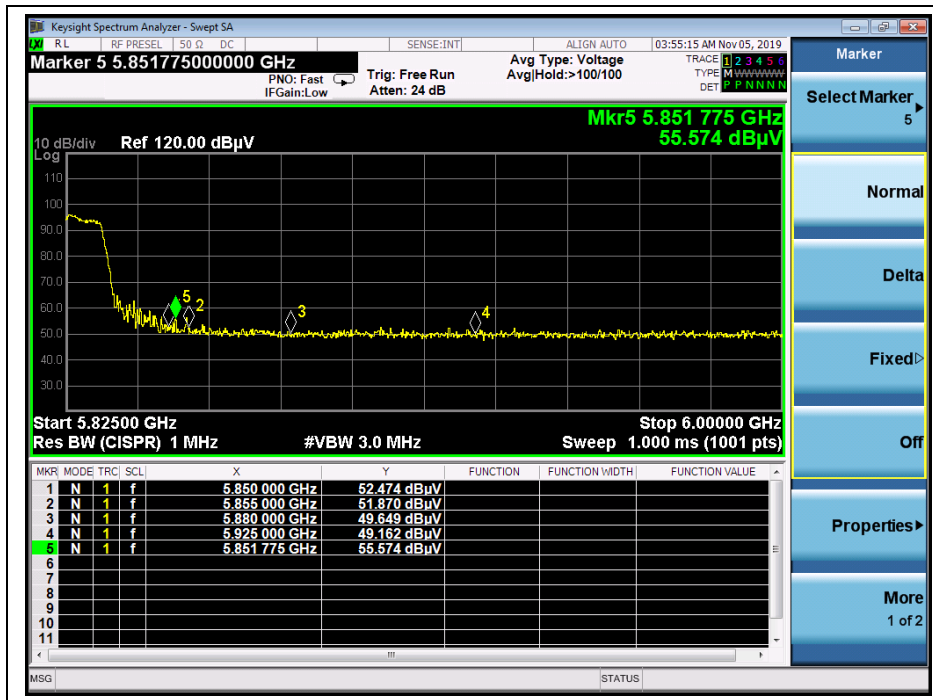
(Channel 144, AVG, 802.11n (HT20))



(Channel 149, PEAK, 802.11 n (HT20))



(Channel 149, AVG, 802.11n (HT20))



(Channel 165, PEAK, 802.11 n (HT20))



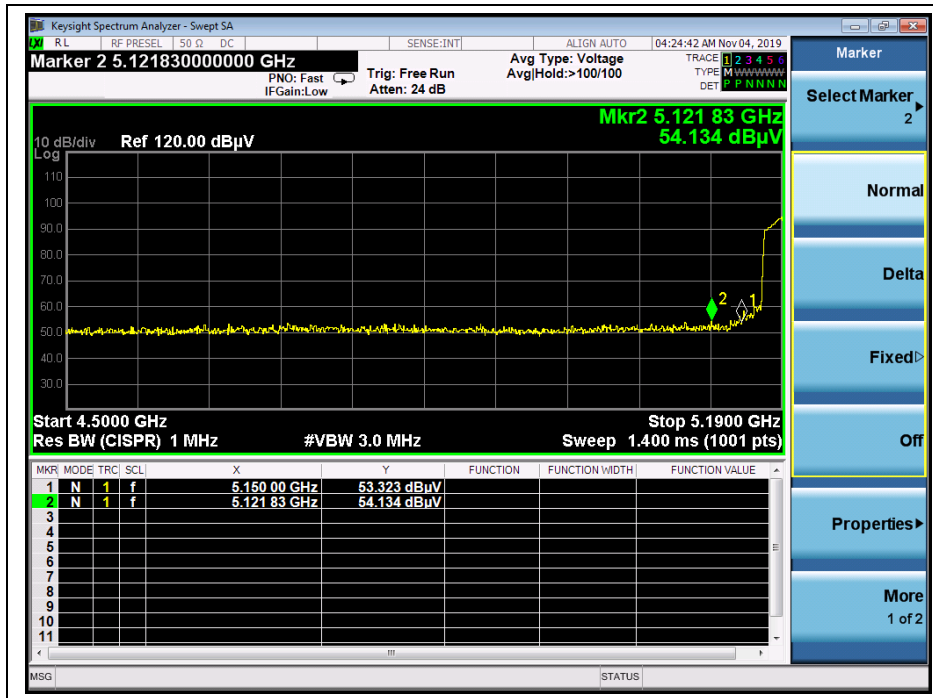
(Channel 165, AVG, 802.11n (HT20))

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

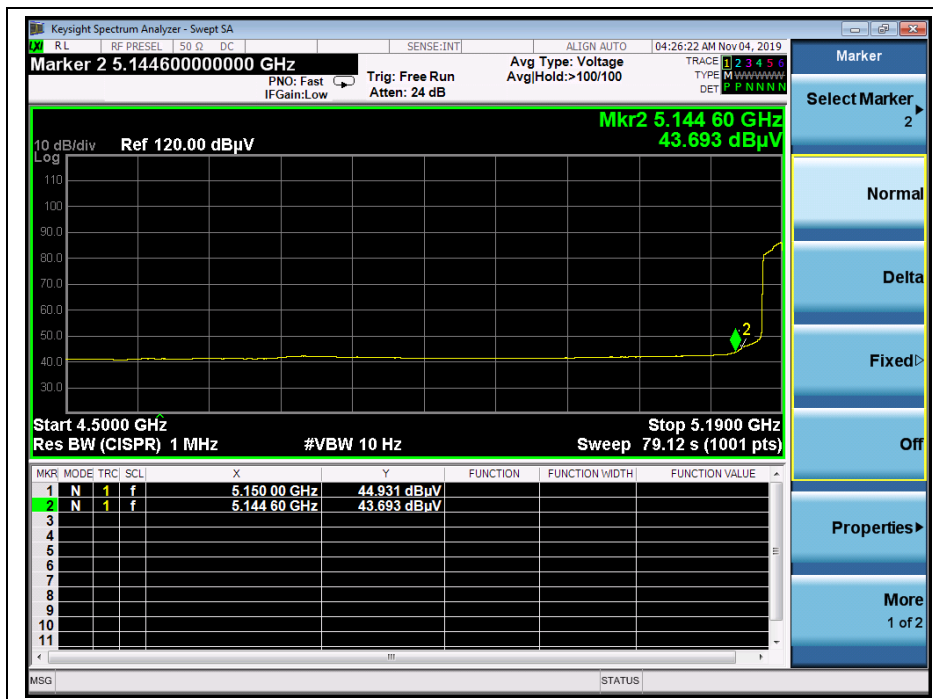
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
38	5121.83	PK	54.13	-26.92	32.20	59.41	74	PASS
38	5150.00	AV	44.93	-26.92	32.20	50.21	54	PASS
62	5353.90	PK	52.17	-26.80	32.20	57.57	74	PASS
62	5350.00	AV	41.74	-26.80	32.20	47.14	54	PASS
102	5469.20	PK	55.84	-26.64	32.20	61.40	68.23	PASS
102	5470.00	AV	44.96	-26.64	32.20	50.52	54	PASS
142	5739.52	PK	52.42	-26.64	32.20	57.98	68.23	PASS
142	5727.64	AV	41.54	-26.64	32.20	47.10	54	PASS
151	5721.67	PK	57.01	-26.23	32.20	62.98	114.64	PASS
151	5724.03	AV	44.47	-26.23	32.20	50.44	54	PASS
159	5853.22	PK	52.79	-26.23	32.20	58.76	114.89	PASS
159	5850.00	AV	41.32	-26.23	32.20	47.29	54	PASS



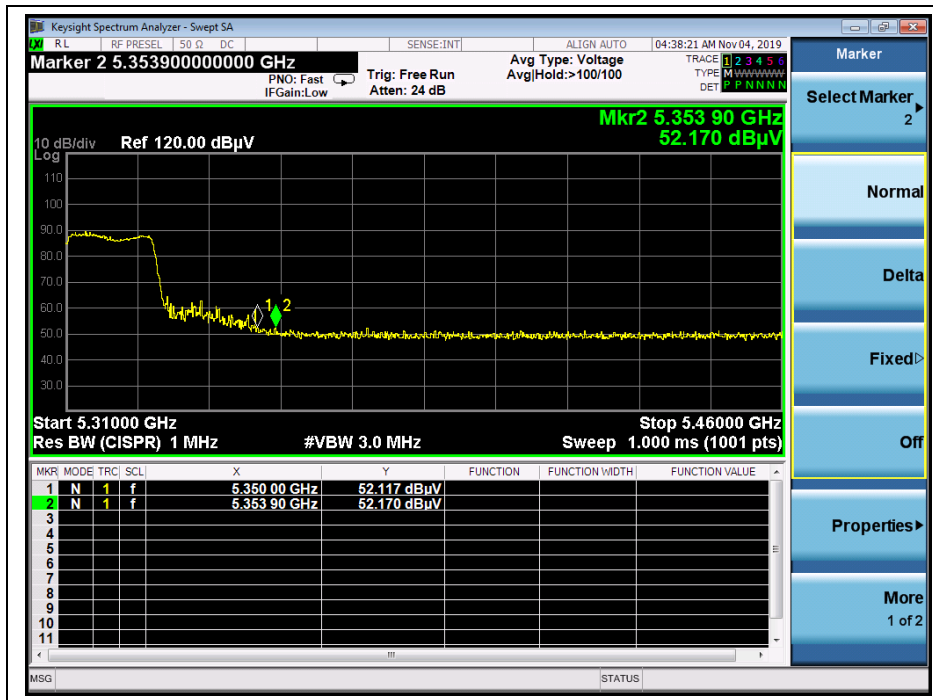
B. Test Plots:



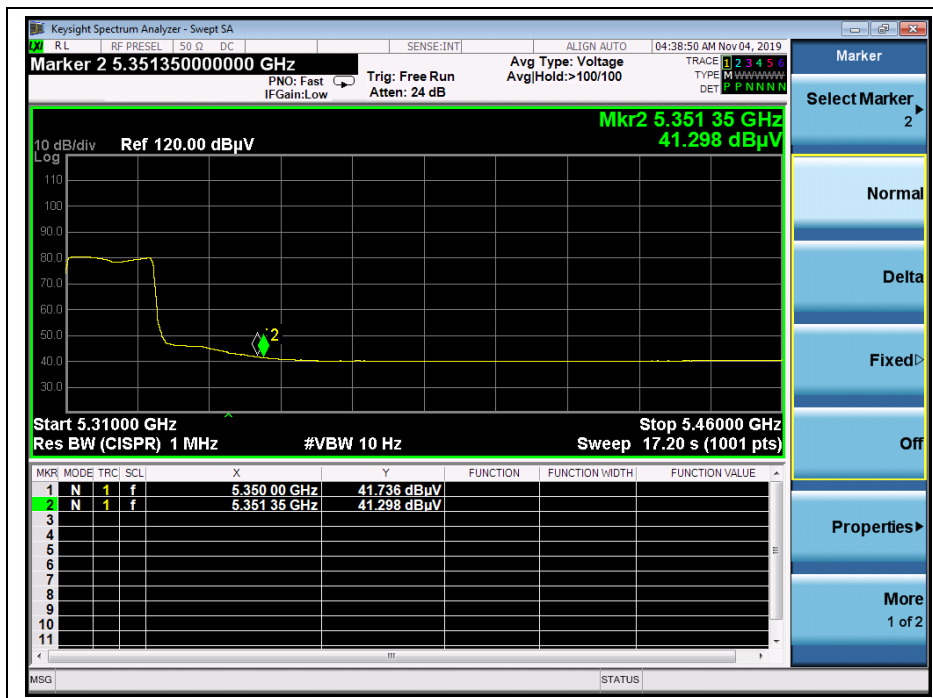
(Channel 38, PEAK, 802.11n (HT40))



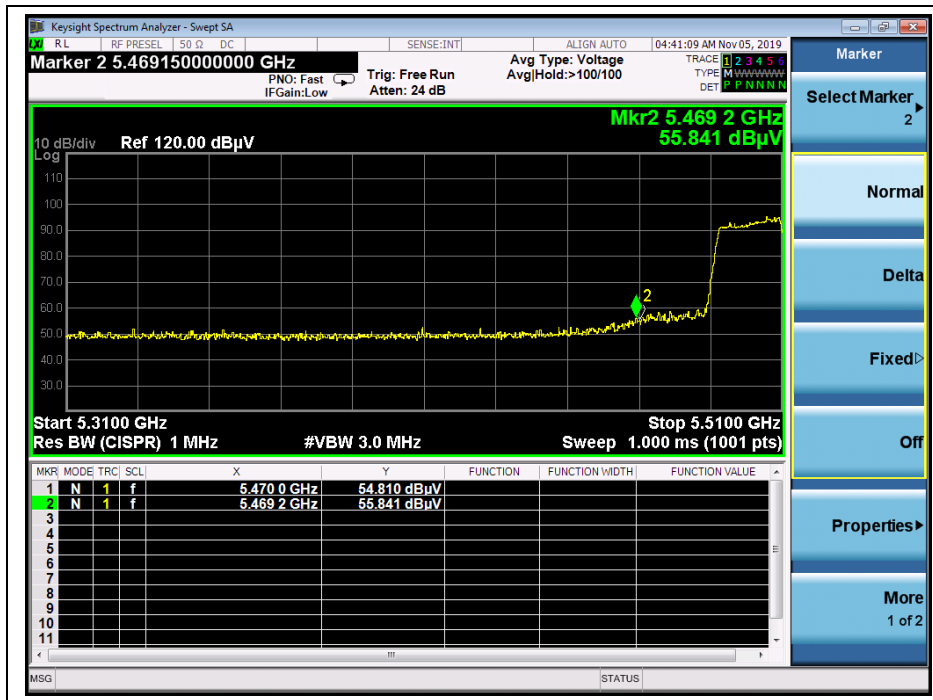
(Channel 38, AVG, 802.11n (HT40))



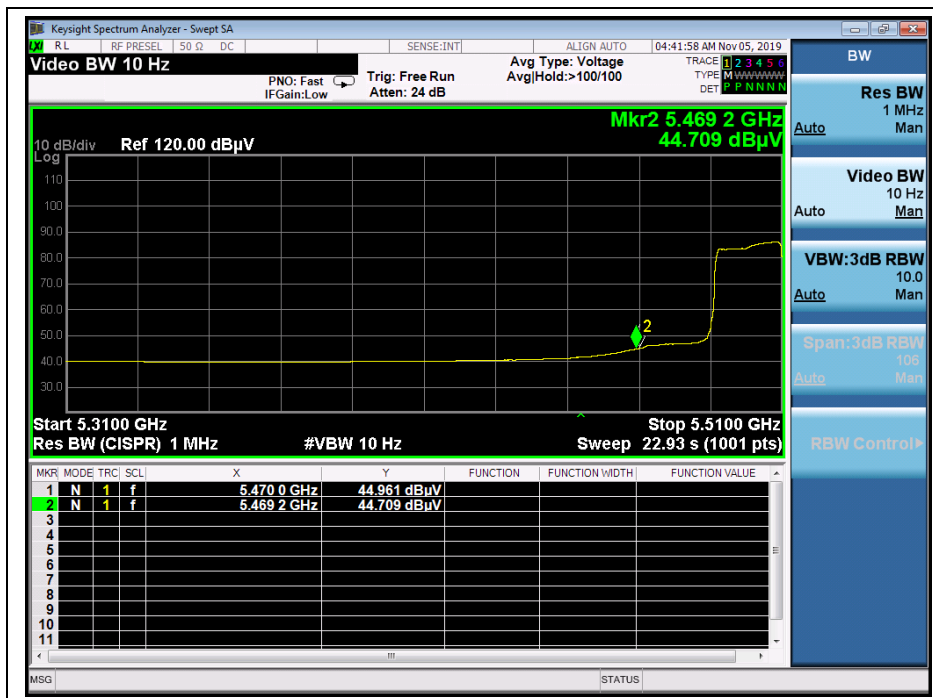
(Channel 62, PEAK, 802.11n (HT40))



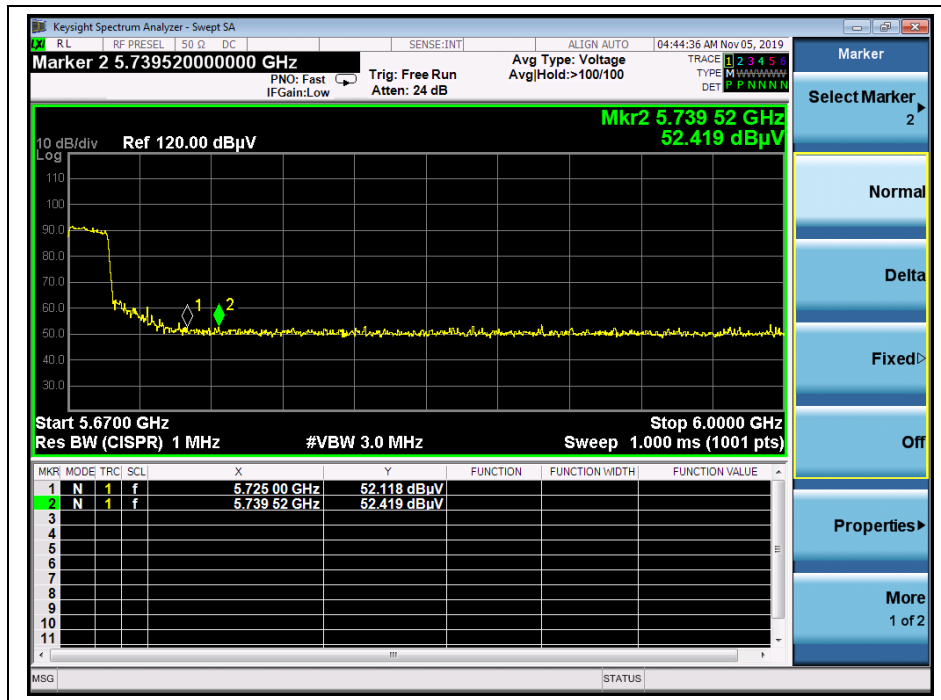
(Channel 62, AVG, 802.11n (HT40))



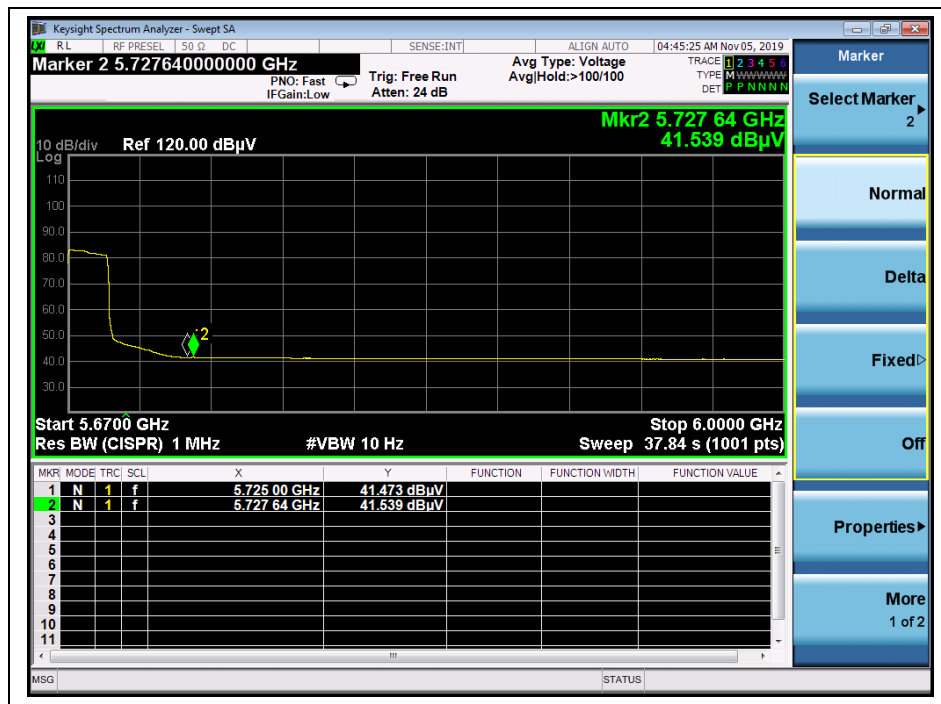
(Channel 102, PEAK, 802.11n (HT40))



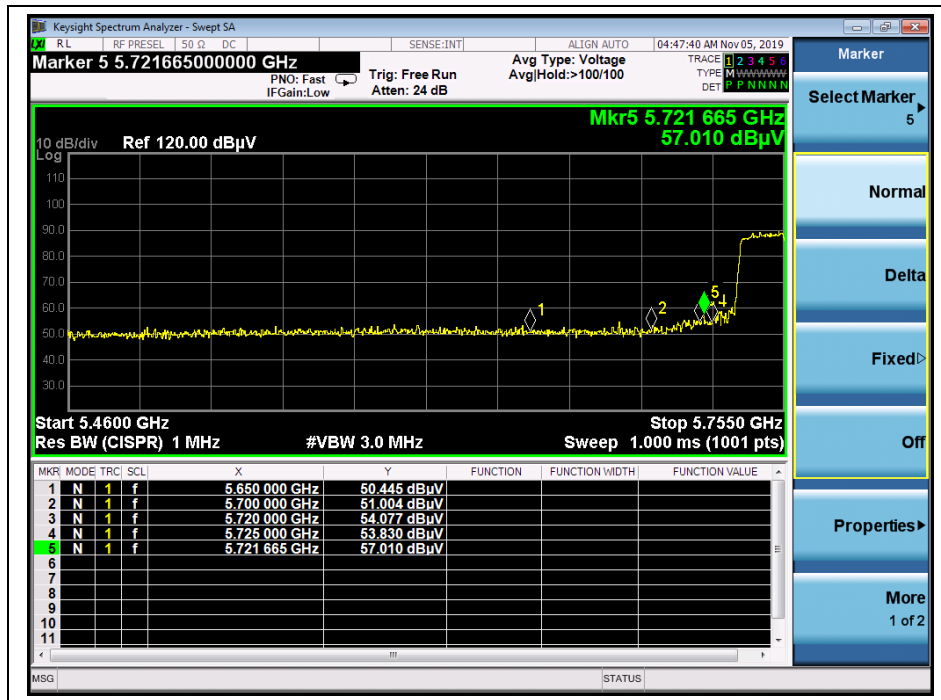
(Channel 102, AVG, 802.11n (HT40))



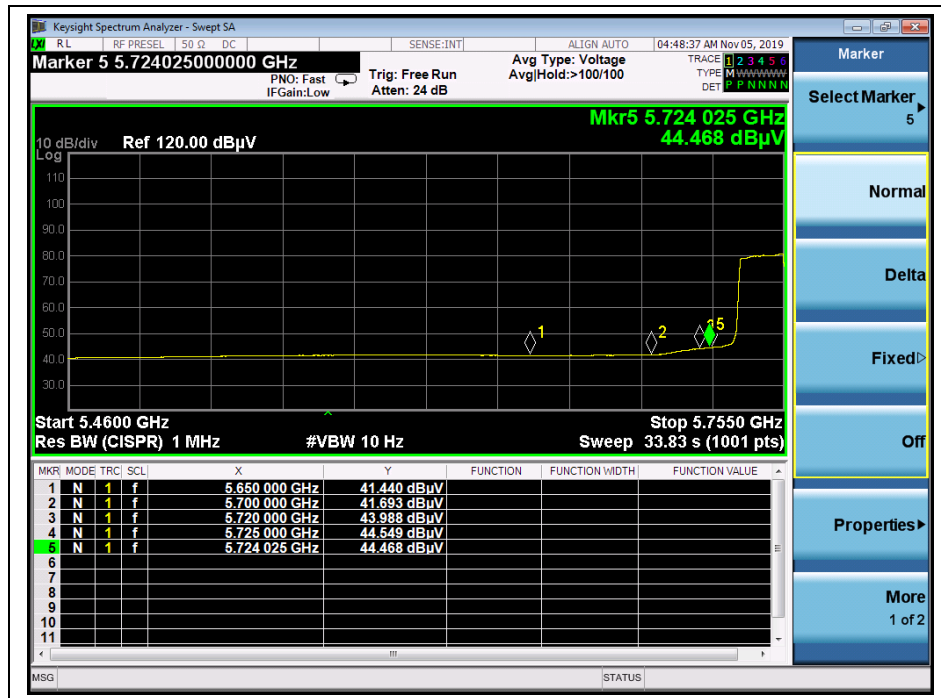
(Channel 142, PEAK, 802.11n (HT40))



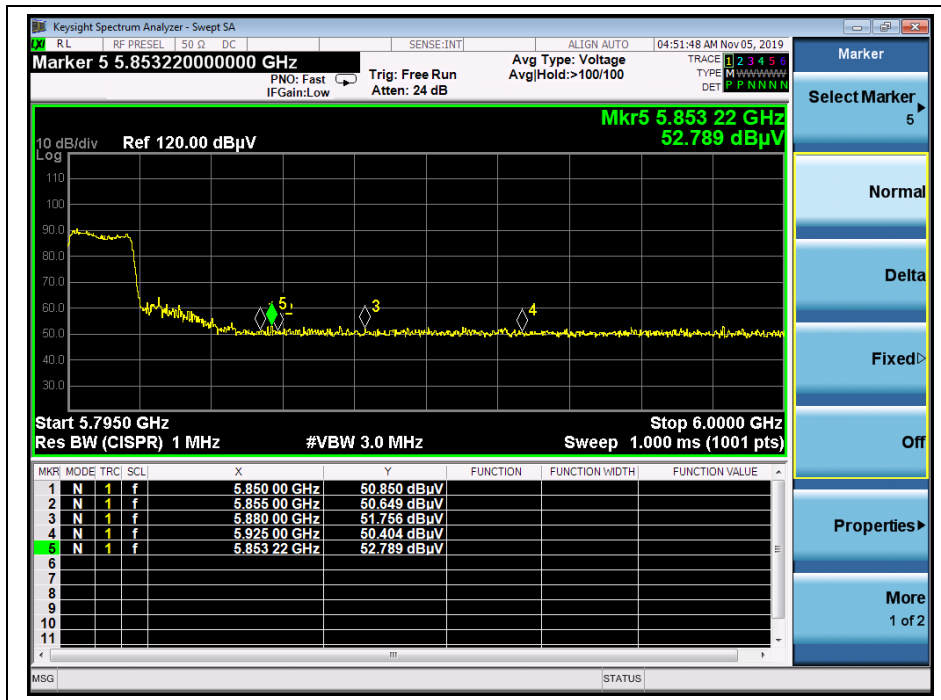
(Channel 142, AVG, 802.11n (HT40))



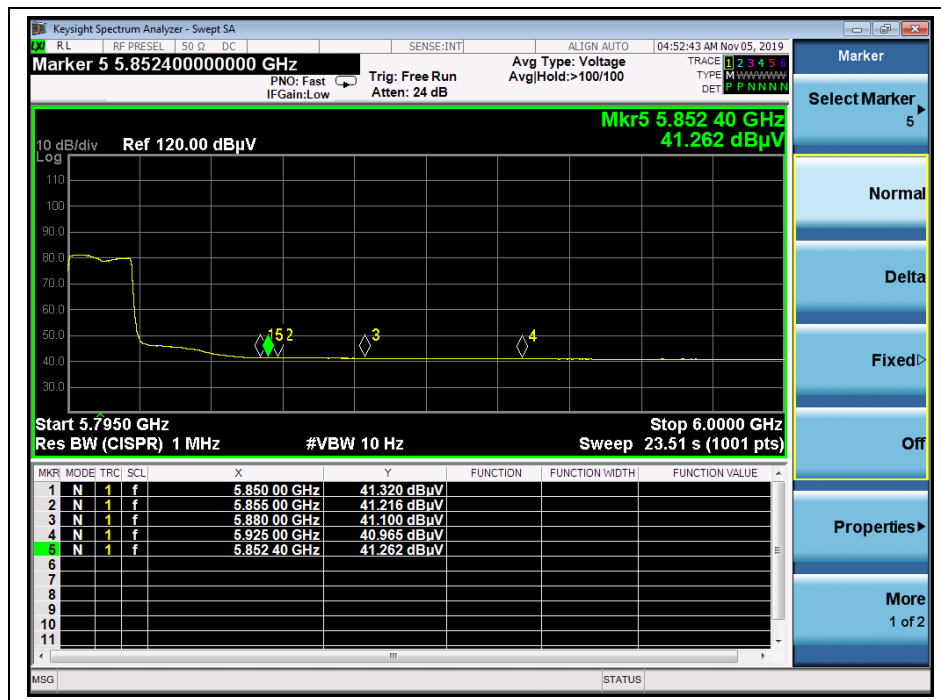
(Channel 151, PEAK, 802.11n (HT40))



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



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



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

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(eirp) to field strength (dBμV/m);

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

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

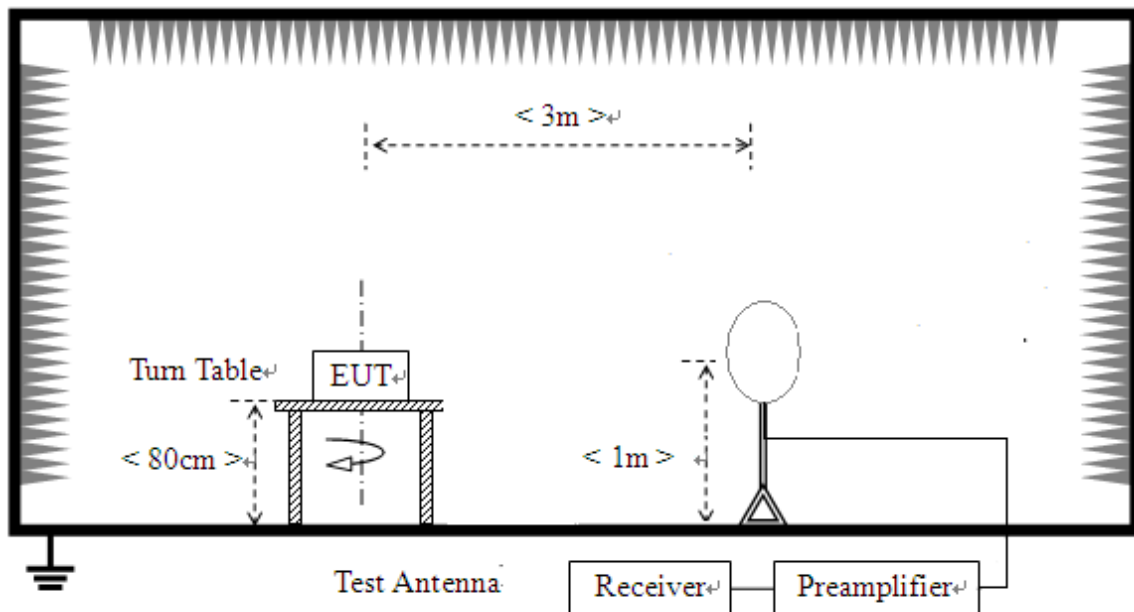
Note:

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.

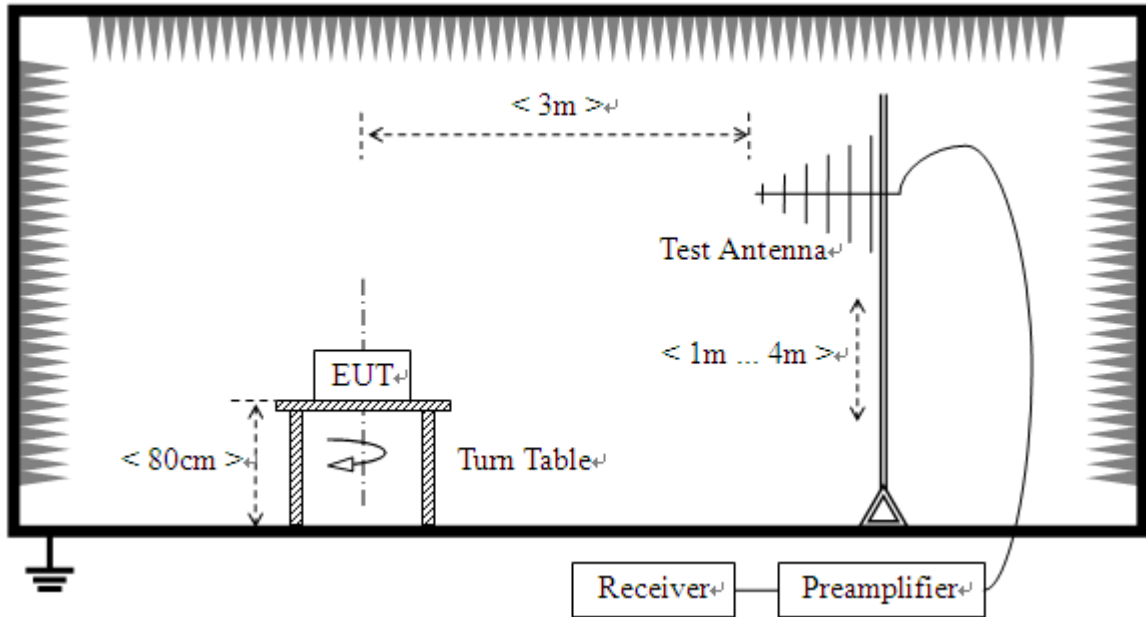
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

2.9.2. Test Description**Test Setup:**

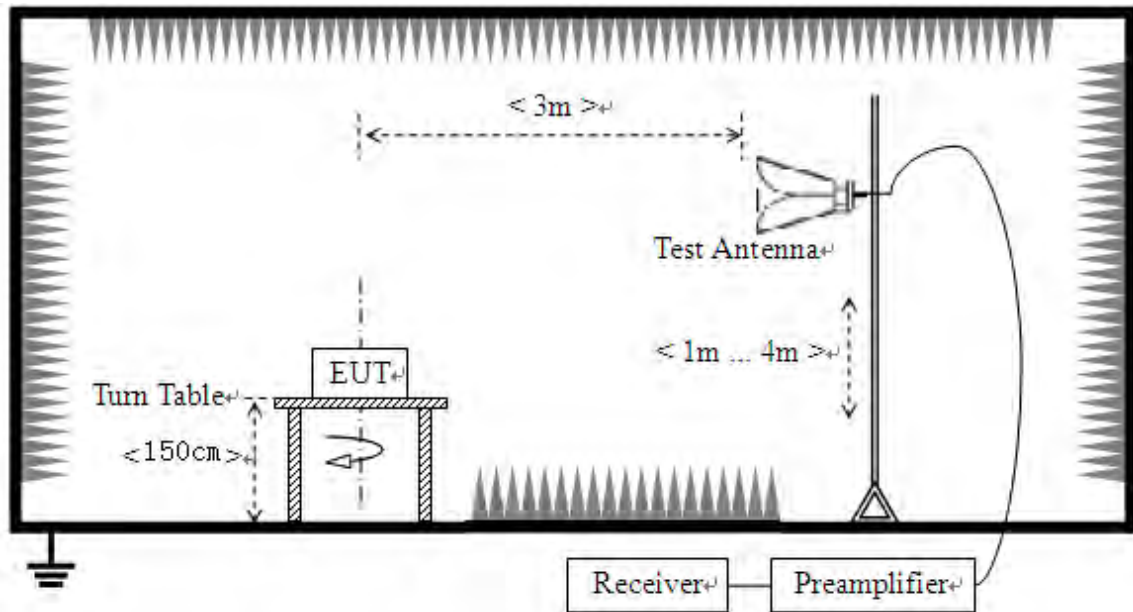
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT



was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.



2.9.3. Test Result

According to ANSI C63.4 selection 4.2.2, 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 limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

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

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.

Note1: 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.

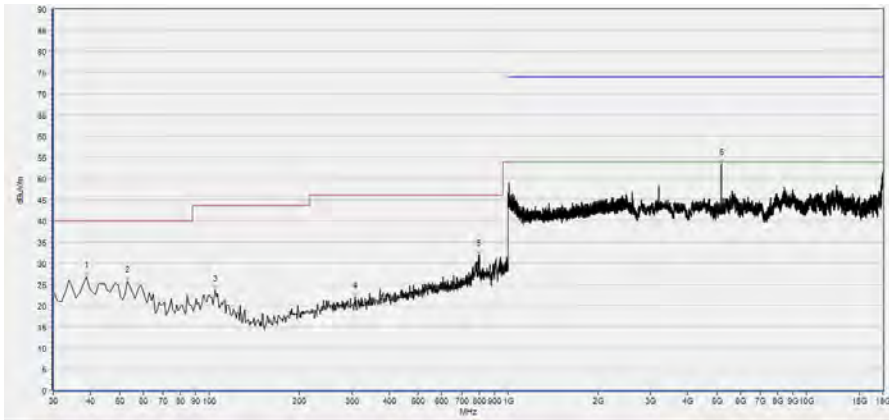
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: 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.



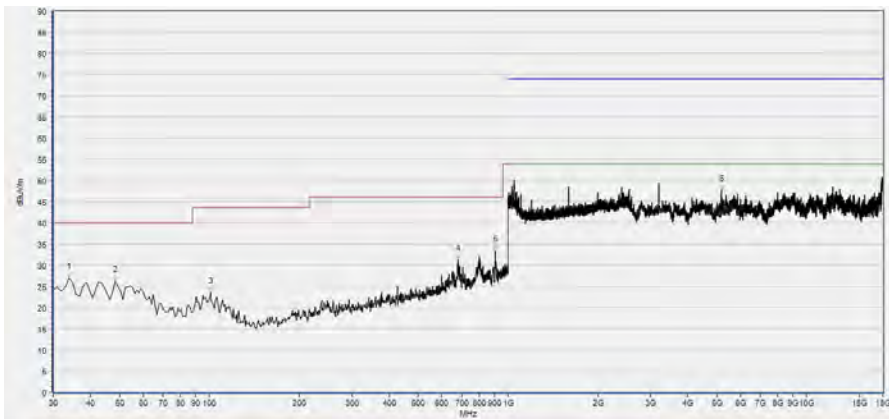
802.11a Test mode

Plots 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
38.739	26.80	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
53.303	25.64	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	23.52	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
307.698	22.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
798.038	31.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5178.476	53.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

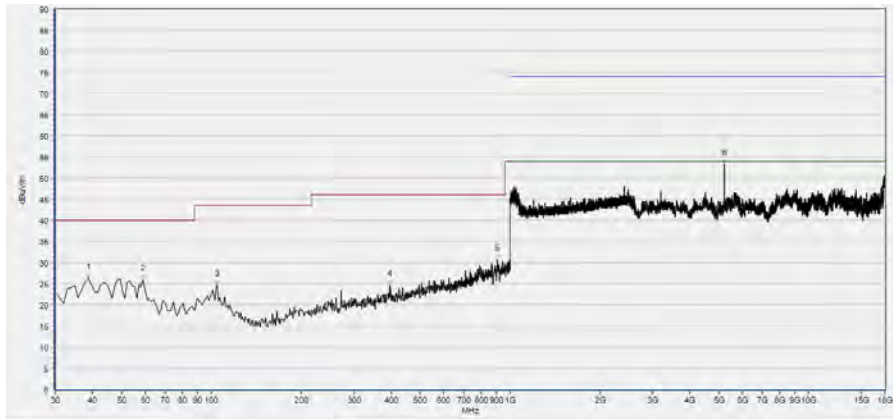
(Antenna Horizontal, 30MHz to 18GHz)



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
33.884	26.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
48.448	26.26	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	23.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
679.580	31.19	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
906.787	33.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
5178.476	47.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

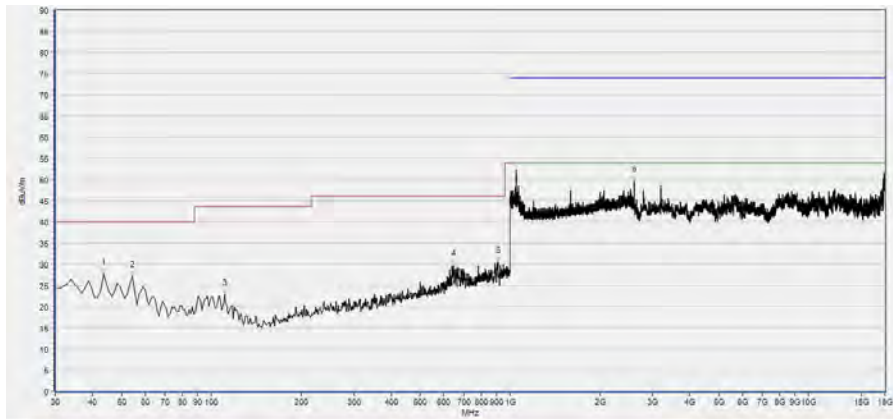
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
38.739	26.27	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
59.129	25.83	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	24.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
395.085	24.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
906.787	30.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5221.604	53.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

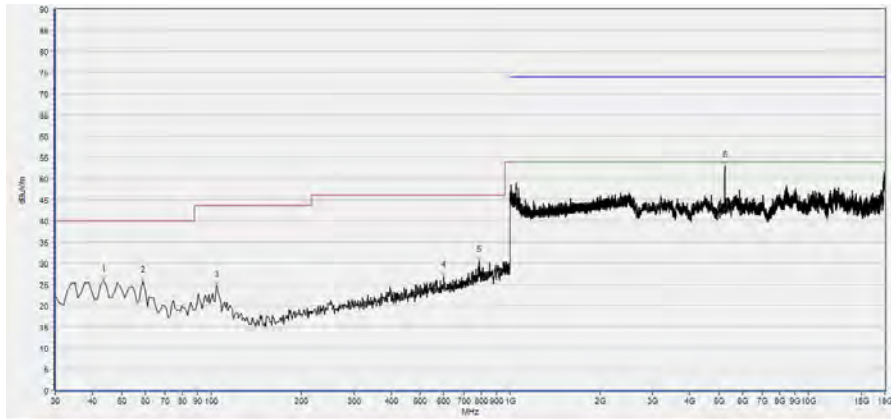
(Antenna Horizontal, 30MHz to 18GHz)



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
43.594	27.67	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
54.274	27.15	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	22.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
646.567	29.90	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
913.584	30.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2609.242	49.72	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

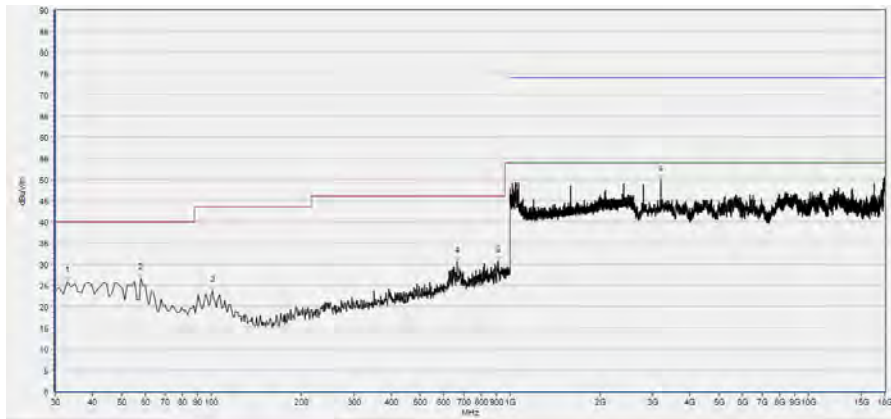
(Antenna Vertical, 30MHz to 18GHz)

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
43.594	25.98	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
59.129	25.69	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	24.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
599.960	26.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
789.299	30.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5240.088	52.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

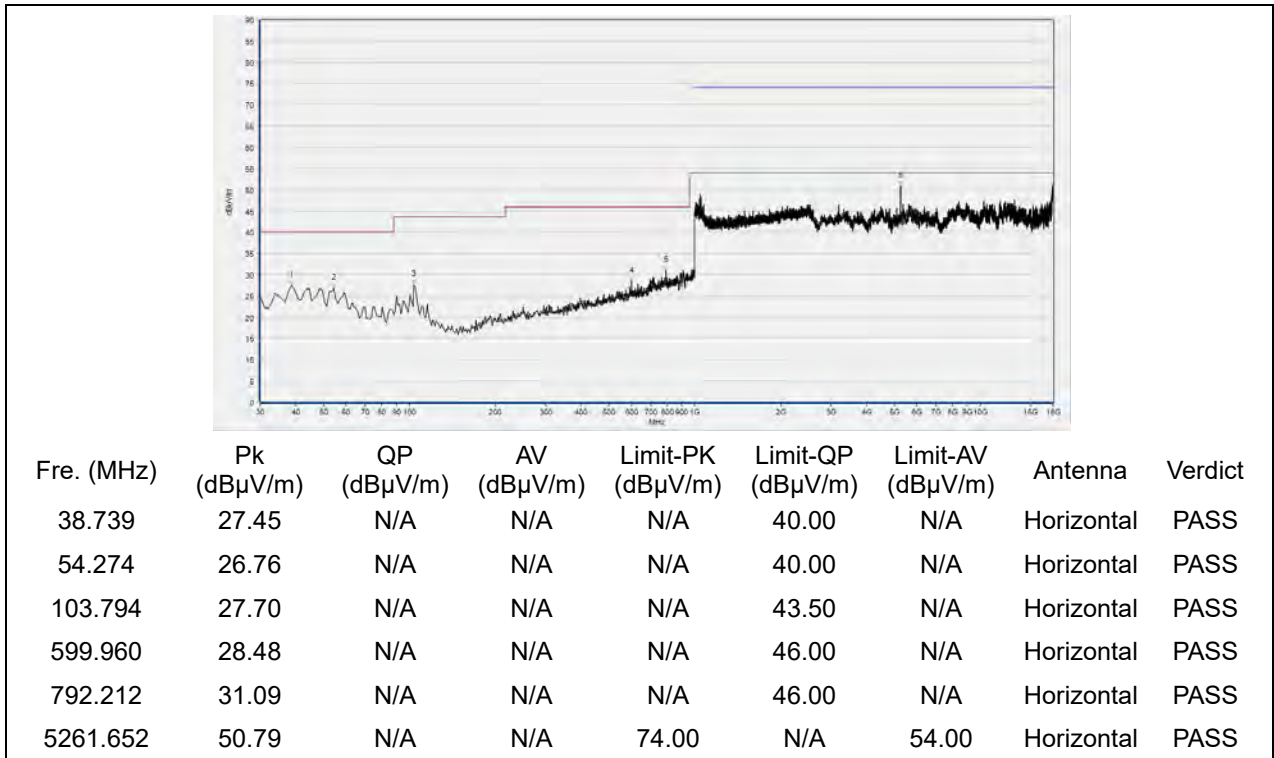
(Antenna Horizontal, 30MHz to 18GHz)



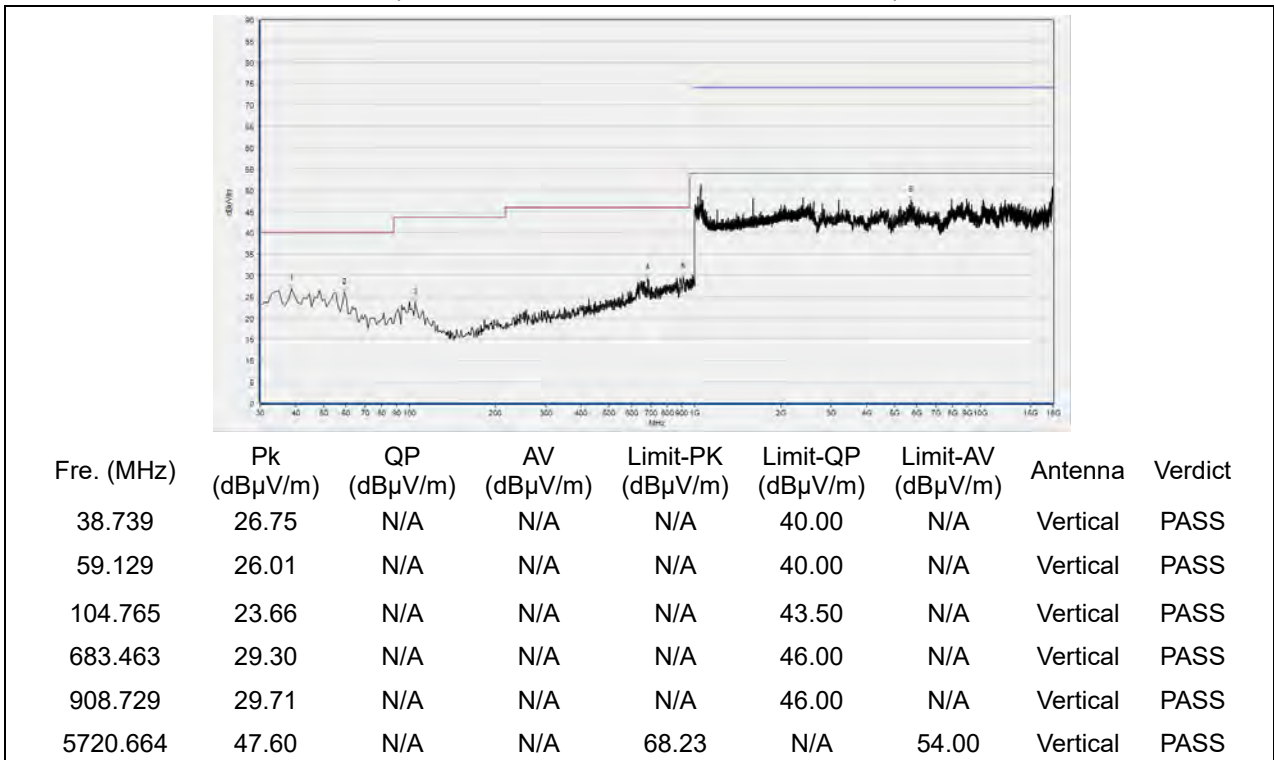
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
32.913	25.96	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
58.158	26.69	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	23.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
665.986	30.55	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
914.555	30.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	49.90	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 52

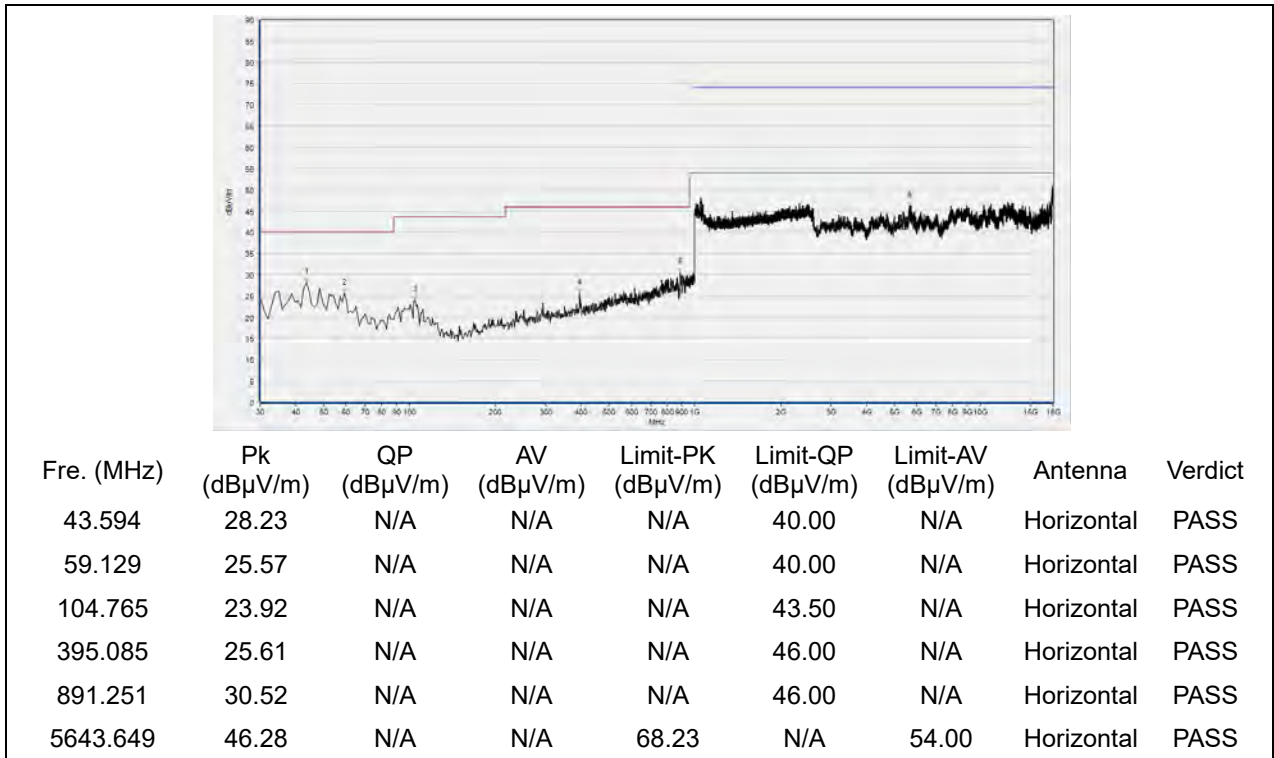


(Antenna Horizontal, 30MHz to 18GHz)

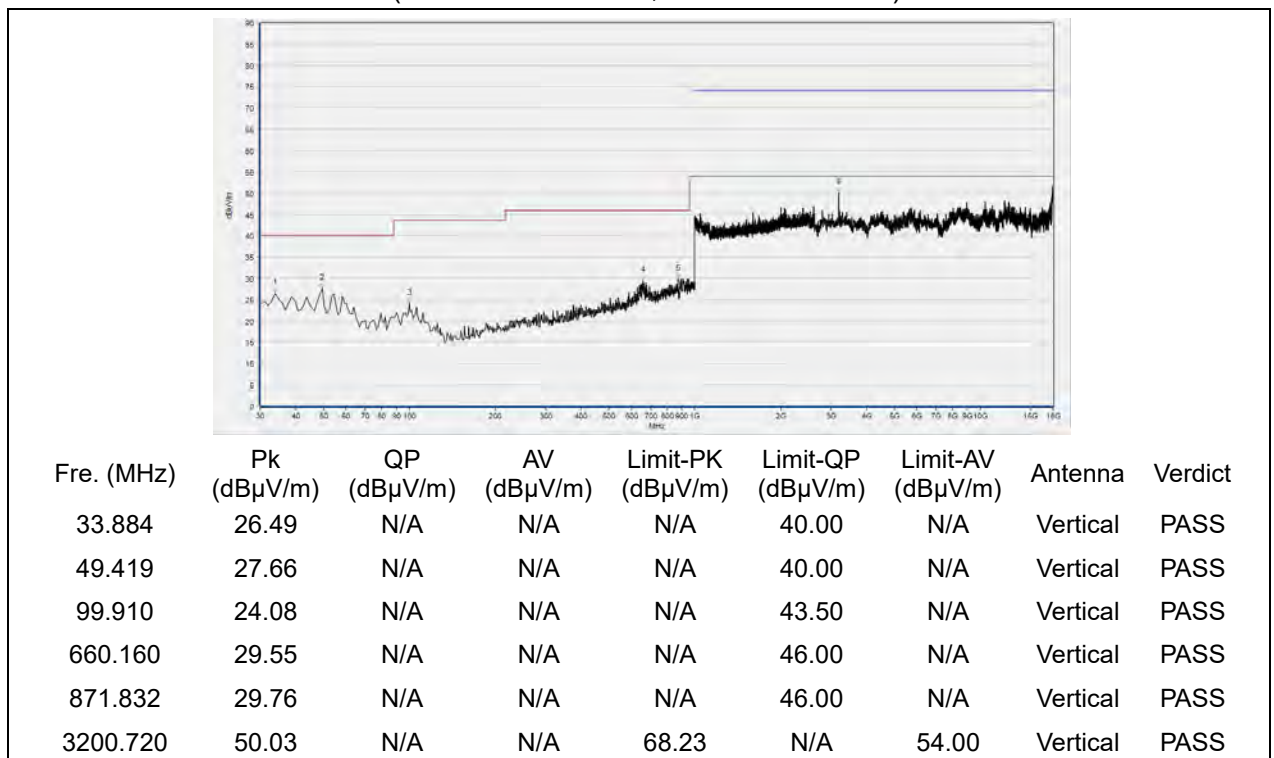


(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 60

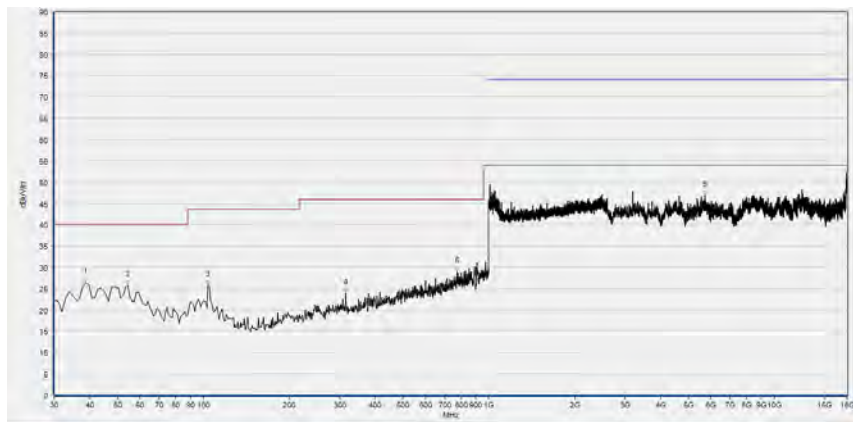


(Antenna Horizontal, 30MHz to 18GHz)



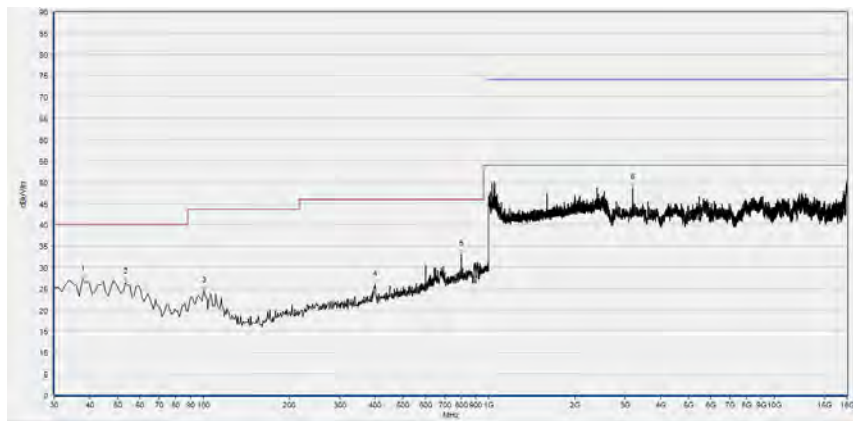
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 64



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
38.739	26.54	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
54.274	25.85	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	25.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
315.465	23.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
775.706	29.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5711.422	46.85	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

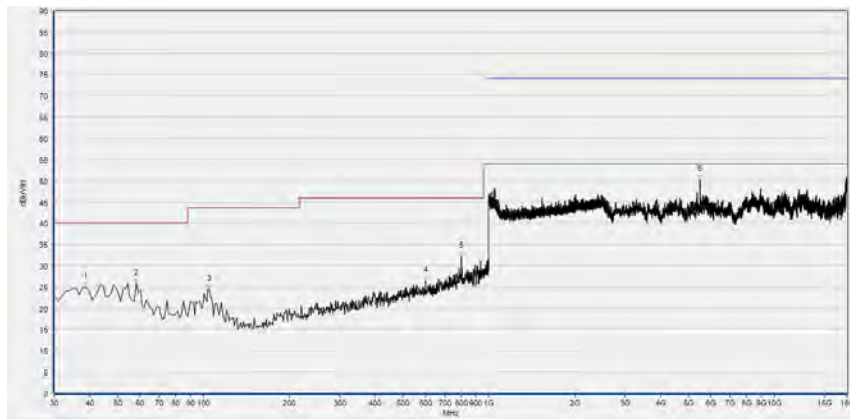
(Antenna Horizontal, 30MHz to 18GHz)



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
37.768	27.15	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
53.303	26.49	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	24.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
399.940	25.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
799.980	33.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	48.54	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

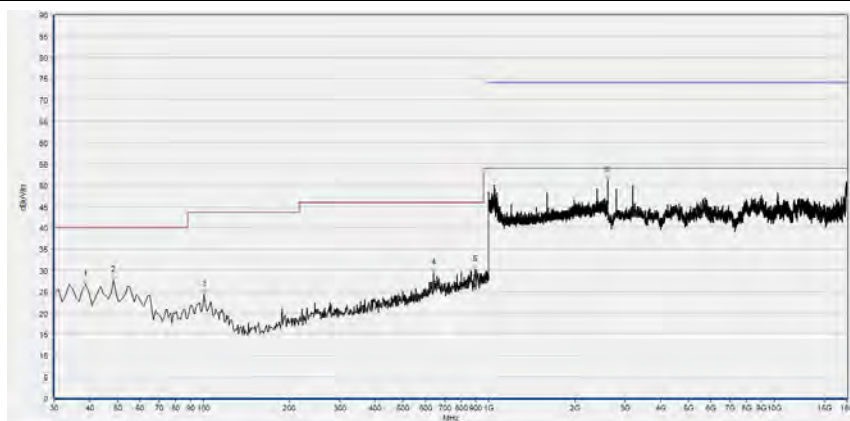
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 100



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
38.739	25.05	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
58.158	25.77	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	24.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
599.960	26.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
799.980	32.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5492.699	50.22	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

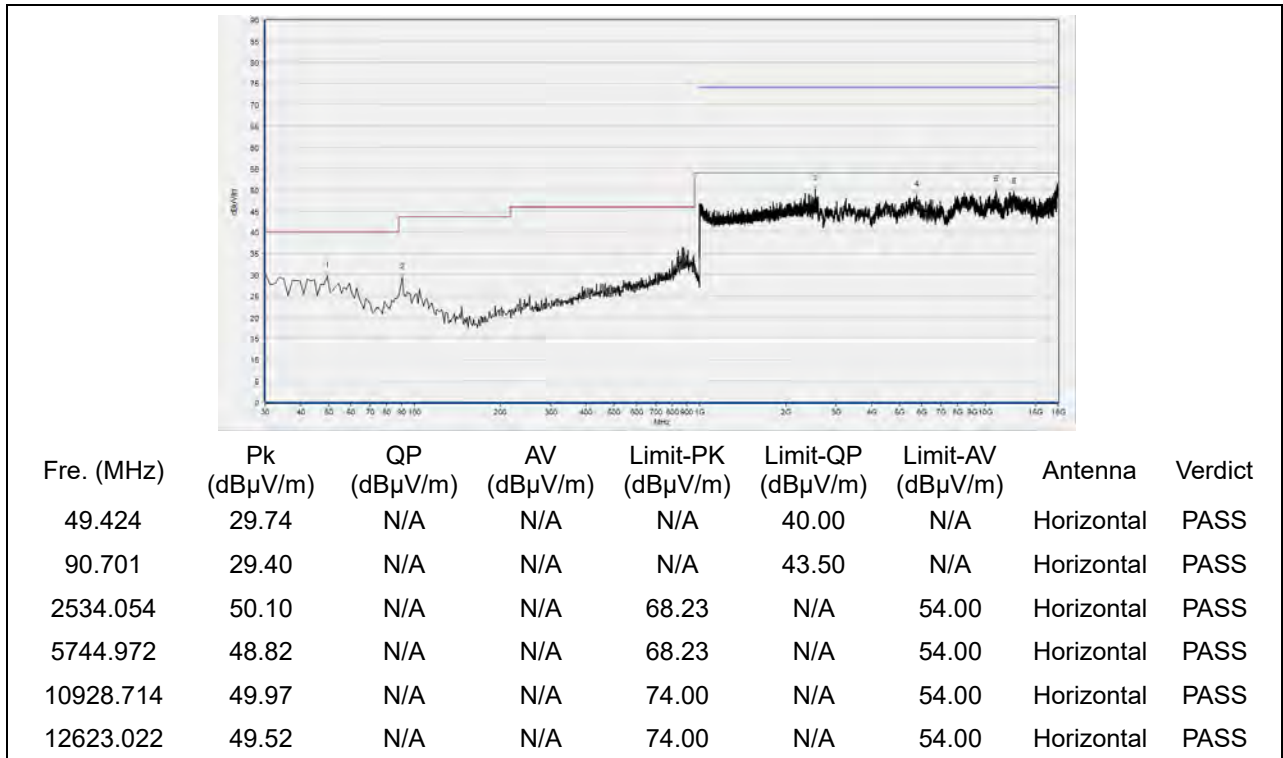
(Antenna Horizontal, 30MHz to 18GHz)



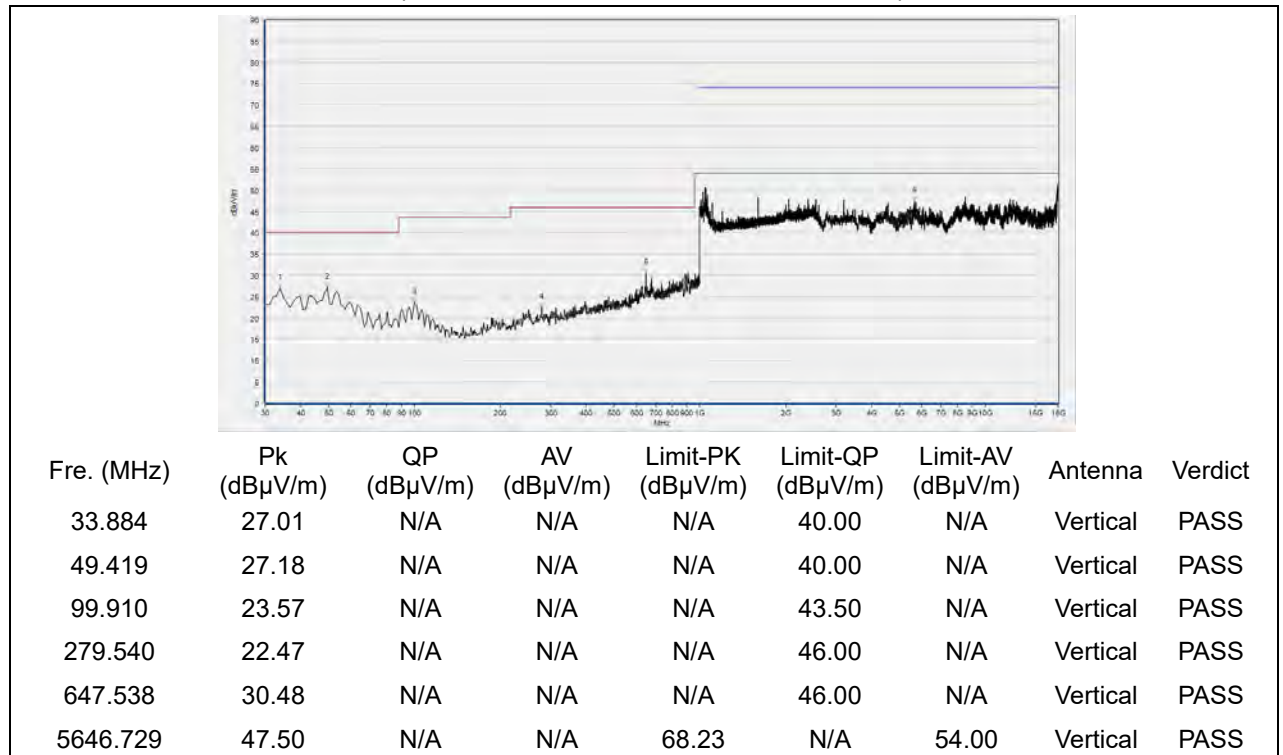
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
38.739	26.71	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
48.448	27.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	24.36	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
640.741	29.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
893.193	30.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2609.242	51.04	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 120

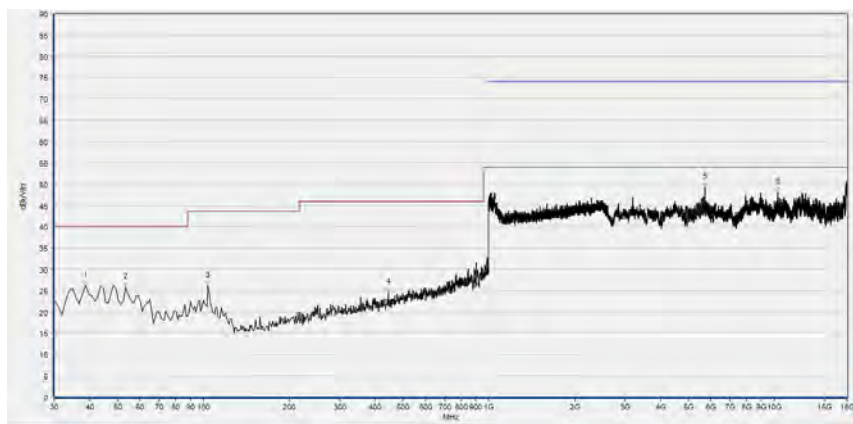


(Antenna Horizontal, 30MHz to 18GHz)



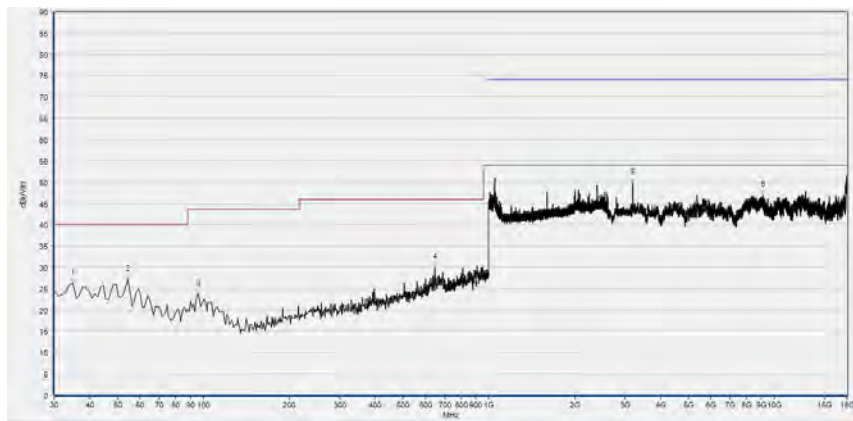
(Antenna Vertical, 30MHz to 18GHz)

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
38.739	26.13	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
53.303	25.88	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	26.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
444.605	24.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
5717.584	49.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10264.573	48.04	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

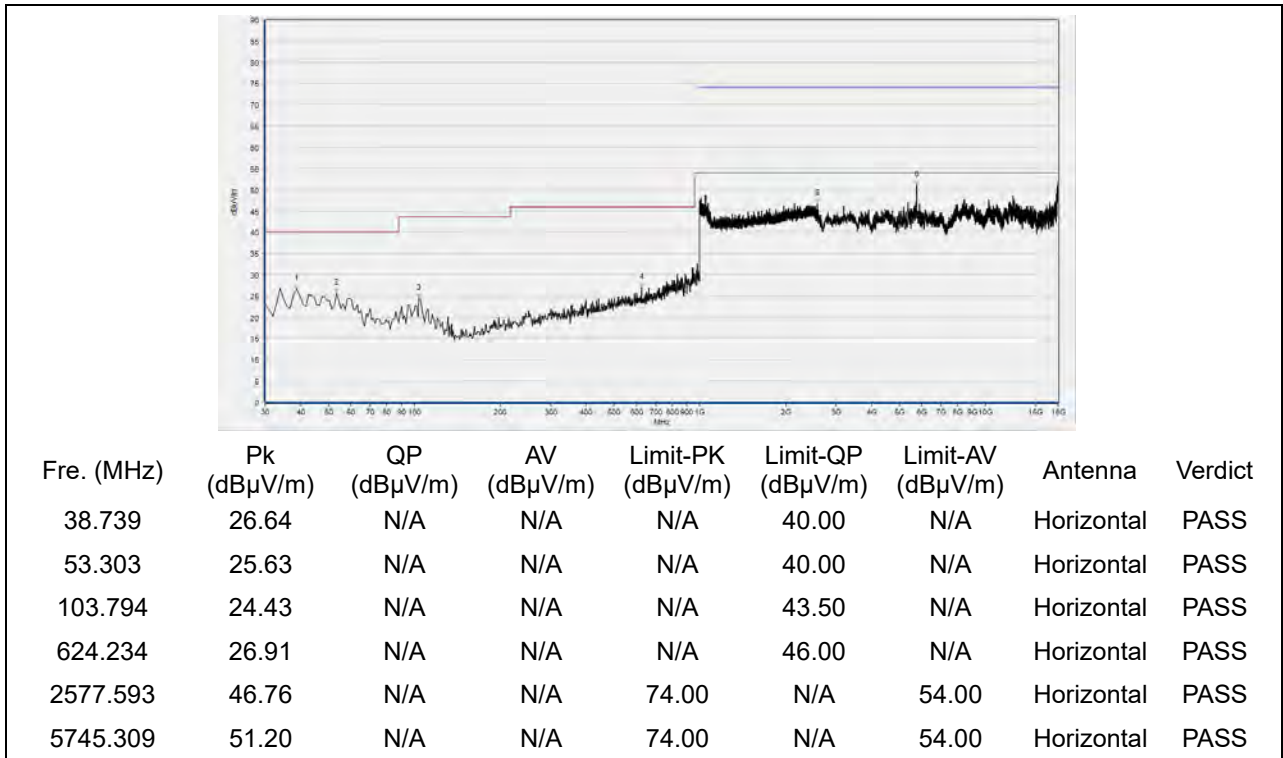
(Antenna Horizontal, 30MHz to 18GHz)



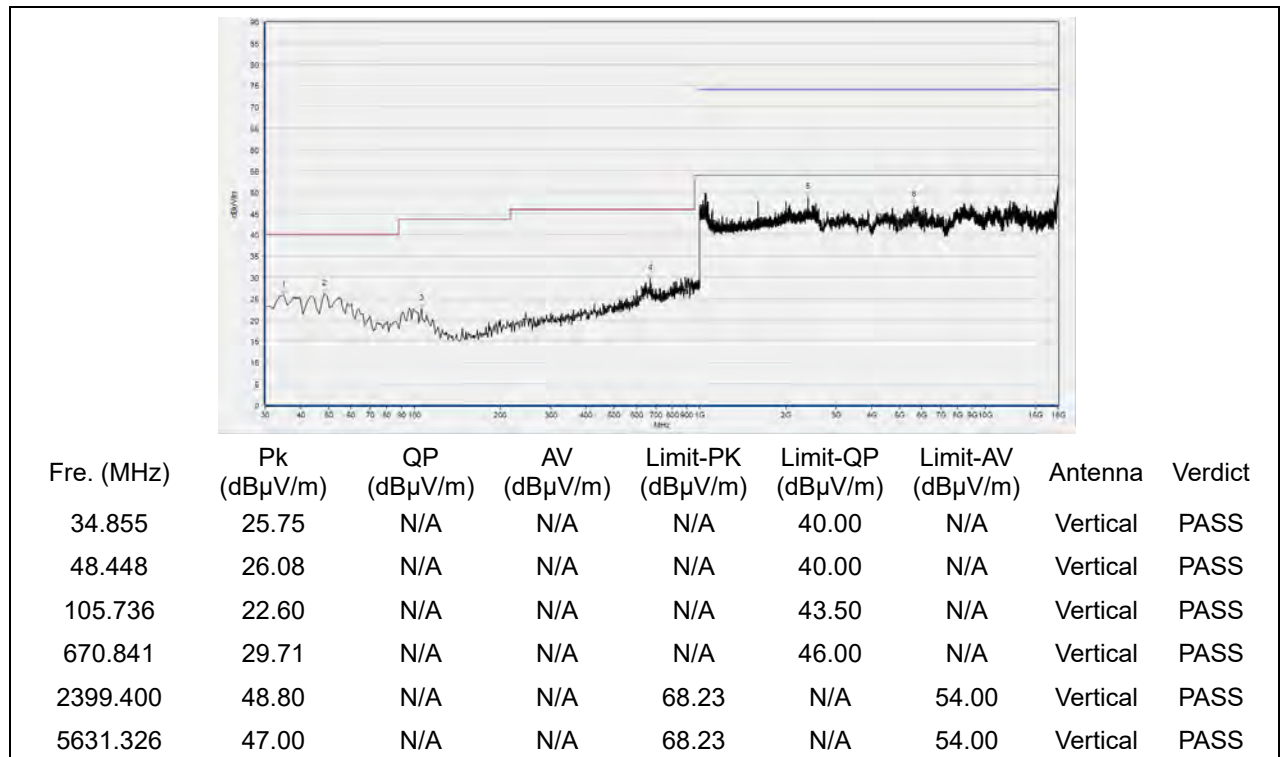
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.855	26.25	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
54.274	27.21	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
96.026	23.62	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
646.567	29.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	49.80	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
9133.987	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 149

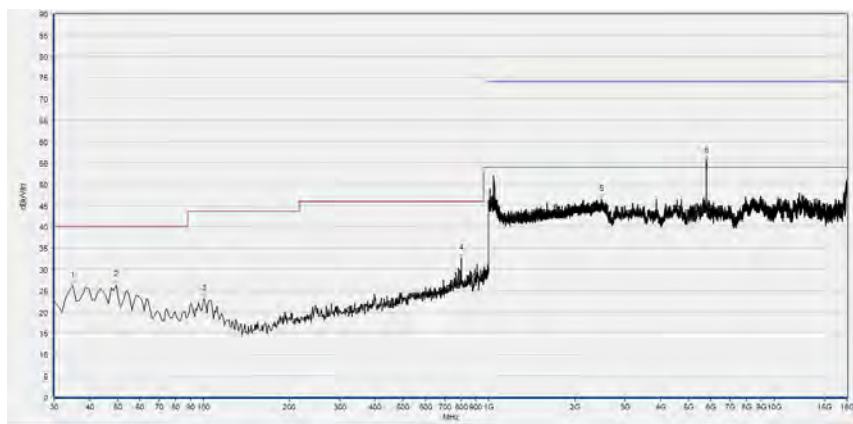


(Antenna Horizontal, 30MHz to 18GHz)



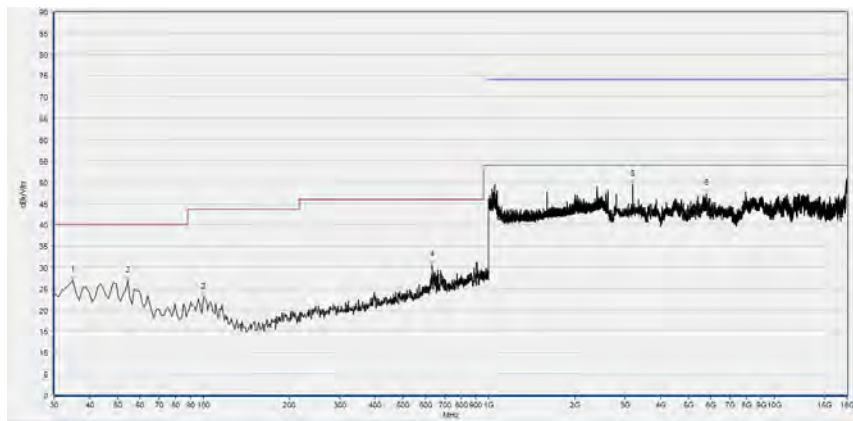
(Antenna Vertical, 30MHz to 18GHz)

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
34.855	26.22	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
49.419	26.37	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
100.881	23.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
799.980	32.49	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2475.158	46.35	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5776.115	55.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

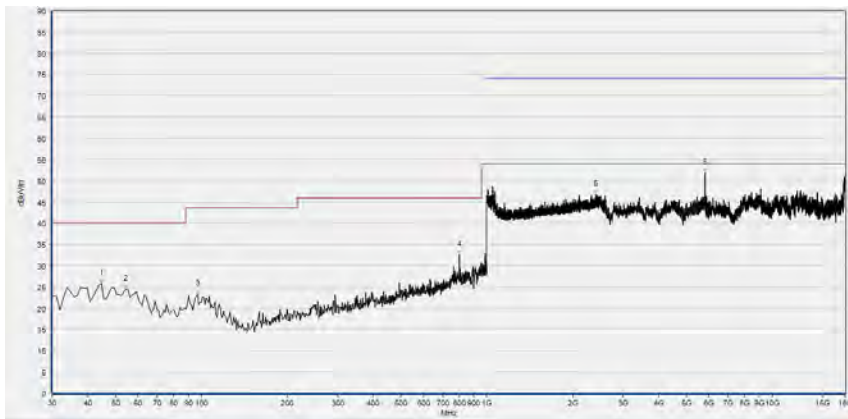
(Antenna Horizontal, 30MHz to 18GHz)



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
34.855	26.92	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
54.274	26.89	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.910	22.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
633.944	30.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	49.42	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5785.357	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

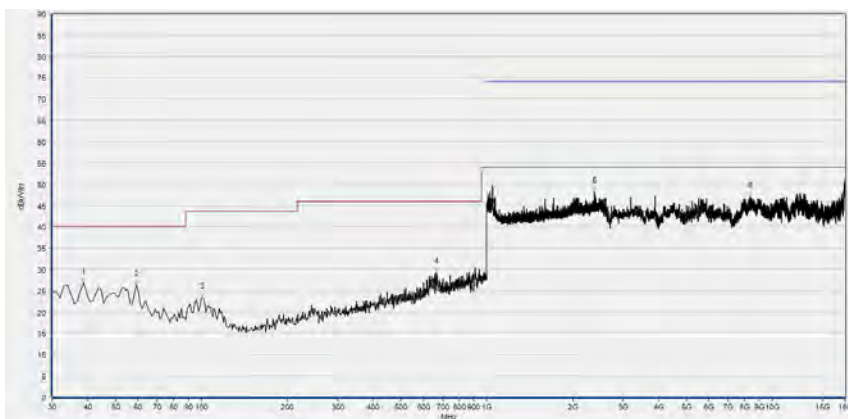
(Antenna Vertical, 30MHz to 18GHz)

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
44.565	25.84	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
54.274	24.48	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
96.997	23.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
799.980	32.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2414.338	46.70	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5822.324	51.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



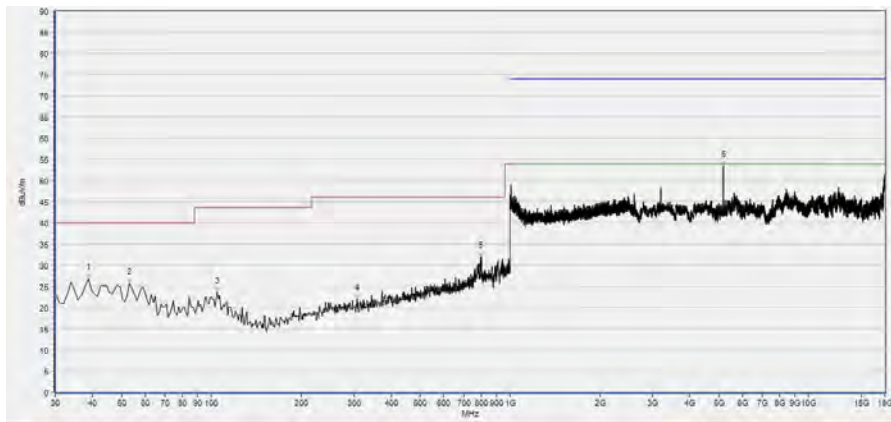
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
38.739	26.88	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
59.129	26.36	N/A	N/A	N/A	40.00	54.00	Vertical	PASS
100.881	23.38	N/A	N/A	N/A	43.50	54.00	Vertical	PASS
665.986	29.39	N/A	N/A	N/A	46.00	54.00	Vertical	PASS
2384.995	48.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8357.672	47.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)



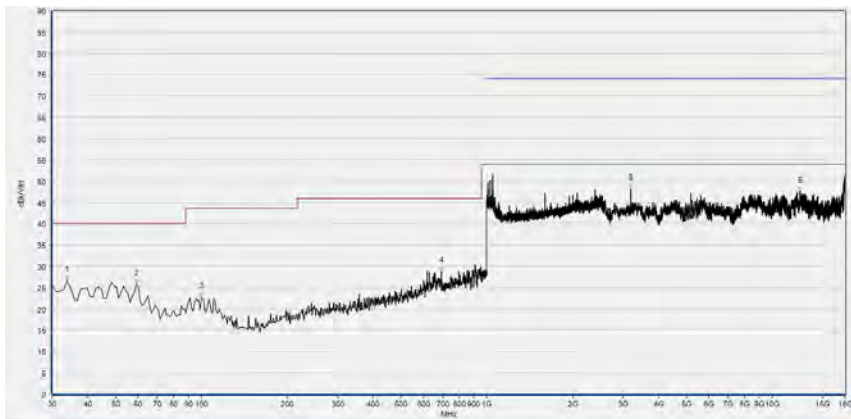
802.11n (HT20) Test mode

Plots 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
39.710	26.63	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
53.303	25.56	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	24.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
437.808	24.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2433.545	46.45	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5178.476	52.19	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A

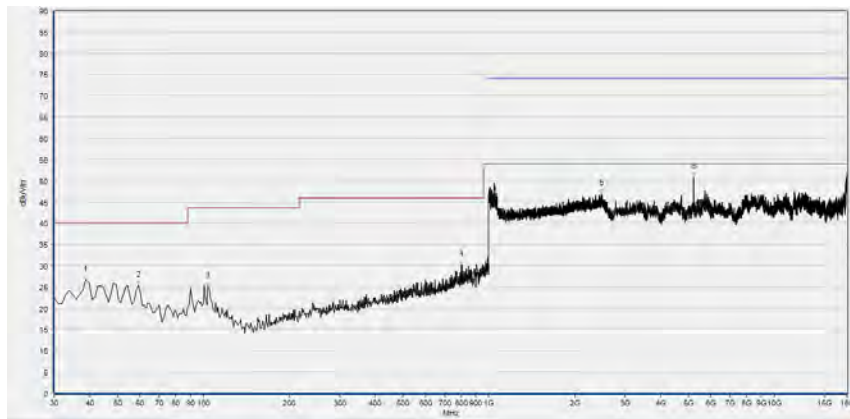
(Antenna Horizontal, 30MHz to 18GHz)



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
33.884	26.64	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
59.129	25.75	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.910	22.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
694.144	28.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	48.26	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12547.309	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

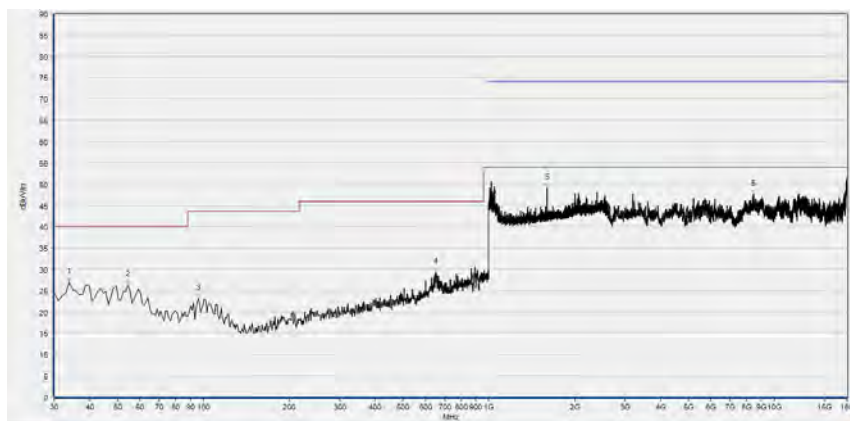
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
38.739	26.61	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
59.129	25.33	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	25.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
799.980	30.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2482.094	46.89	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5218.524	50.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

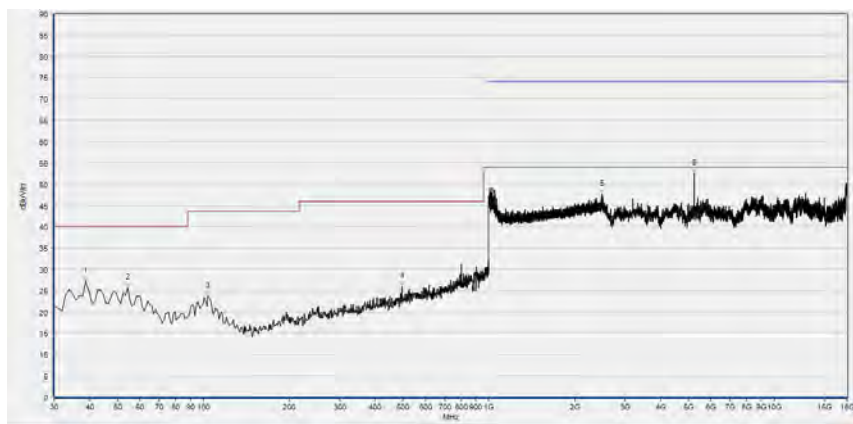
(Antenna Horizontal, 30MHz to 18GHz)



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
33.884	26.95	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
54.274	26.29	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
96.026	23.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
650.450	29.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1599.667	49.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8443.929	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

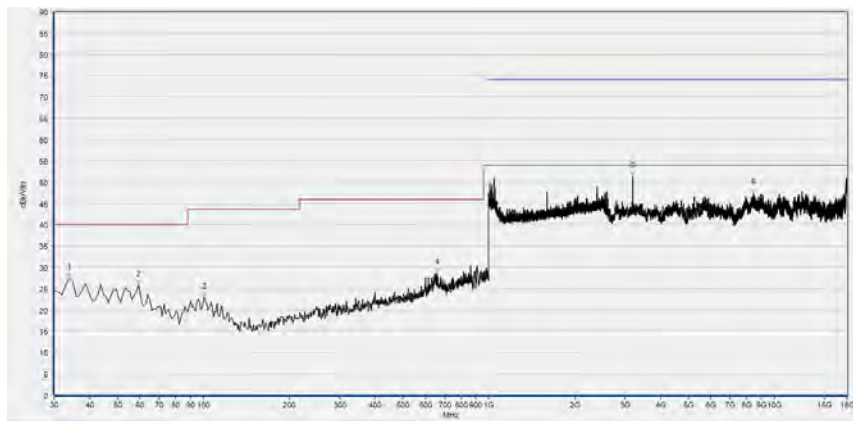
(Antenna Vertical, 30MHz to 18GHz)

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
38.739	27.09	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
54.274	25.56	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	23.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
497.037	25.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2493.831	47.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5240.088	52.40	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A

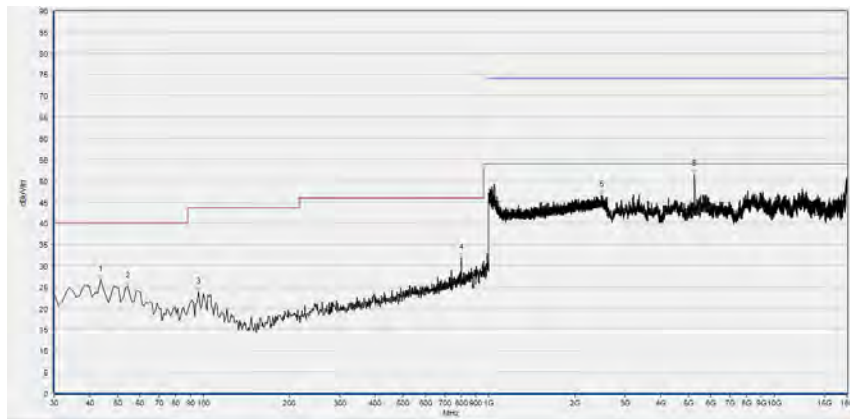
(Antenna Horizontal, 30MHz to 18GHz)



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
33.884	27.46	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
59.129	25.87	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	23.04	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
659.189	28.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	51.36	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
8462.412	47.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

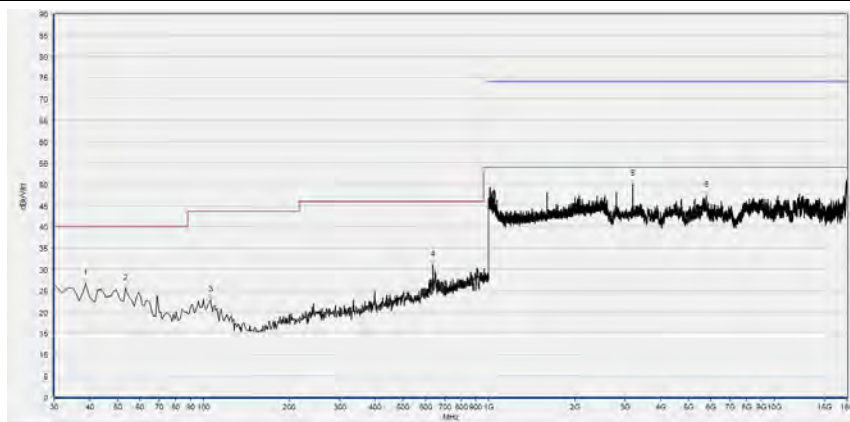
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 52



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
43.594	26.58	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
54.274	25.21	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
96.026	23.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
799.980	31.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2484.228	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5258.572	51.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

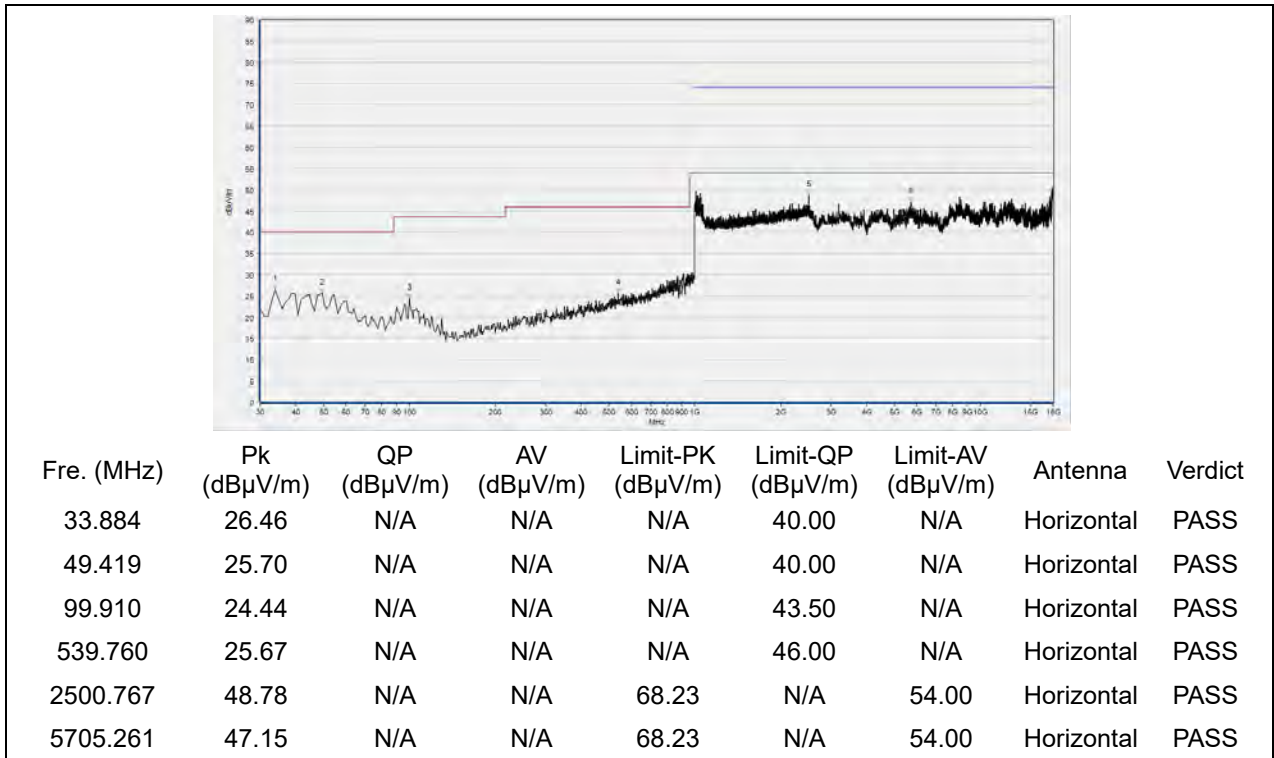
(Antenna Horizontal, 30MHz to 18GHz)



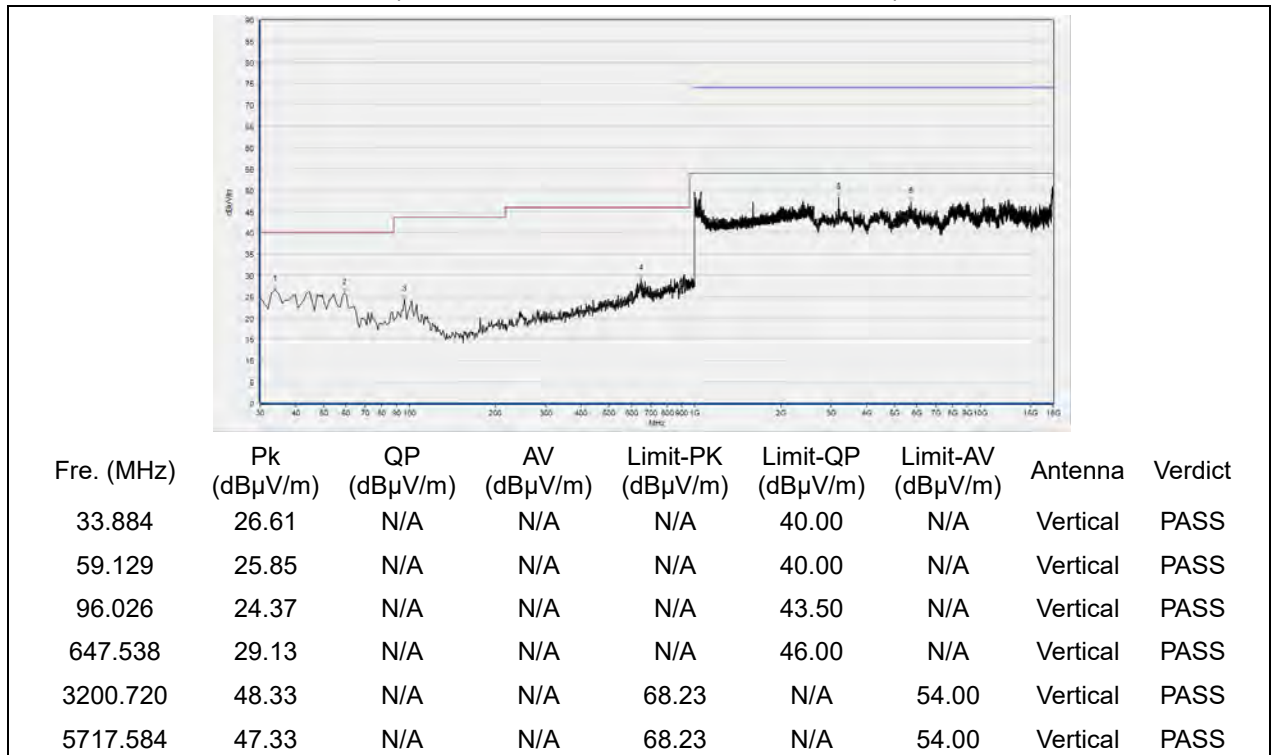
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
38.739	26.57	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
53.303	25.40	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
105.736	22.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
635.886	30.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	49.99	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5788.438	47.21	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 60

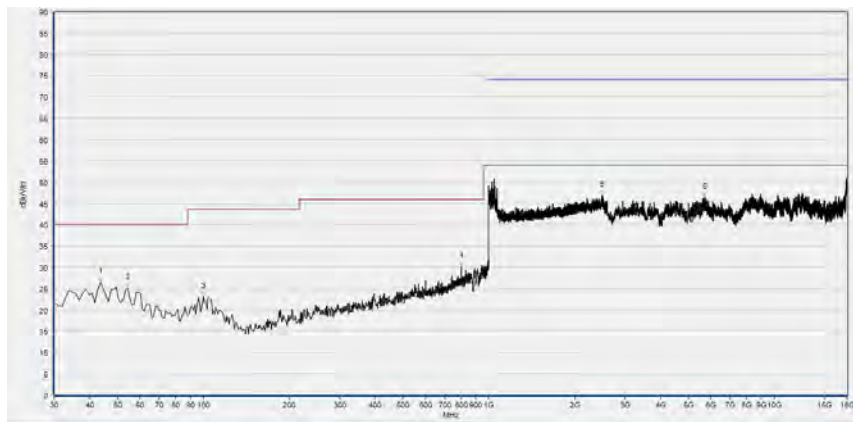


(Antenna Horizontal, 30MHz to 18GHz)



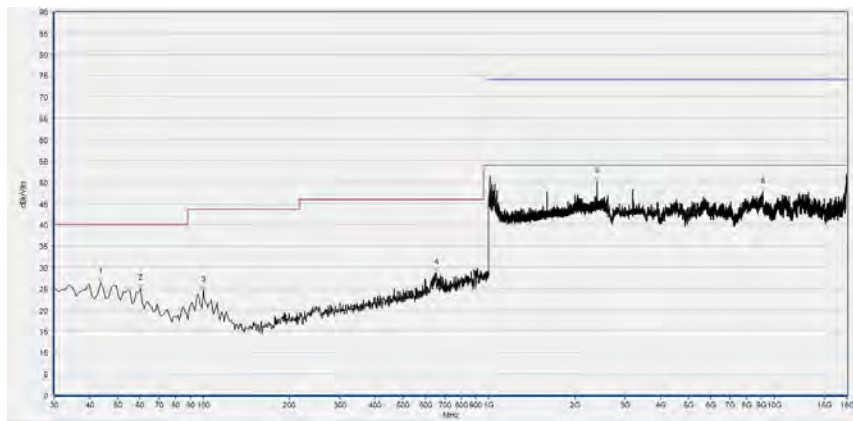
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 64



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
43.594	26.51	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
54.274	25.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	23.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
799.980	30.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2495.965	46.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5723.745	46.38	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

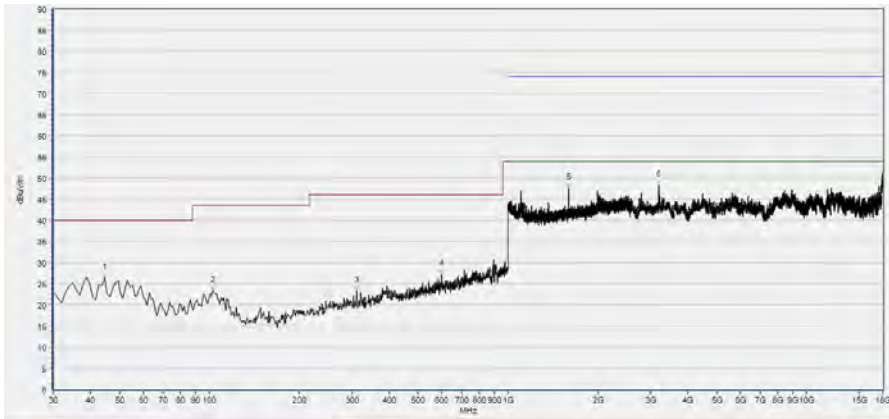
(Antenna Horizontal, 30MHz to 18GHz)



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
43.594	26.49	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
60.100	25.02	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.910	24.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
655.305	28.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2399.400	50.08	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
9109.342	47.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

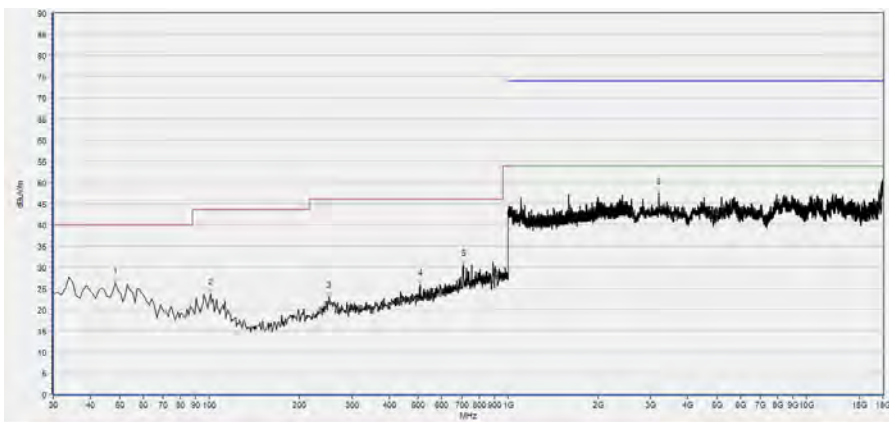
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 100



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
44.565	26.24	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
102.823	23.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
311.582	23.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
599.960	27.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1599.667	47.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3200.720	48.28	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

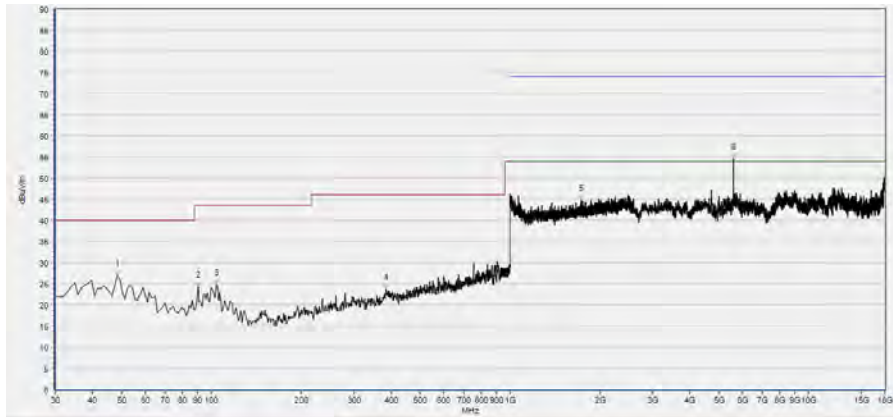
(Antenna Horizontal, 30MHz to 18GHz)



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
48.448	26.23	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	23.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
251.381	22.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
508.689	25.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
709.680	30.46	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
3200.720	47.48	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

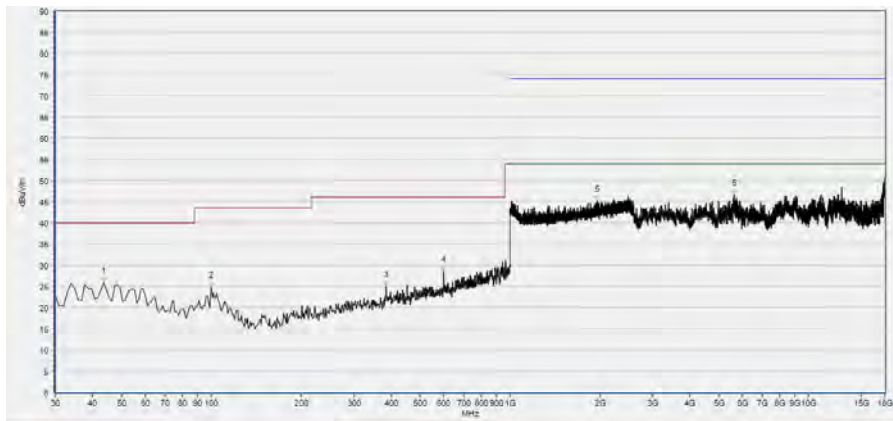
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 120



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
48.448	26.91	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	24.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
103.794	24.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
385.375	23.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1735.178	44.79	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5600.520	54.58	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A

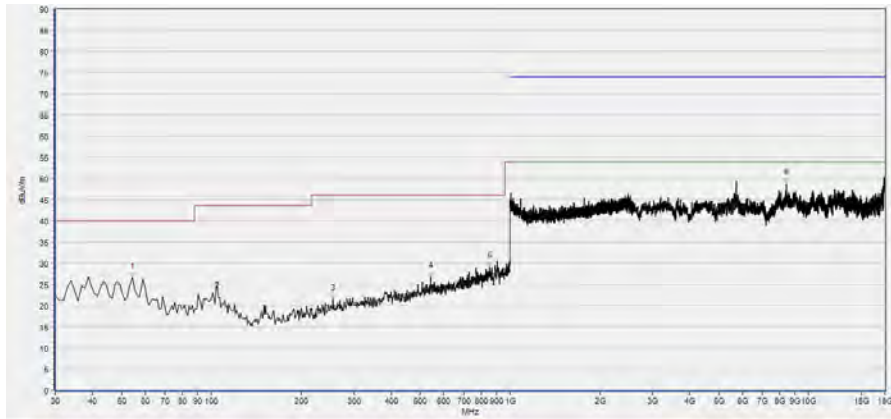
(Antenna Horizontal, 30MHz to 18GHz)



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
43.594	25.88	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.910	24.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
385.375	25.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
599.960	28.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1957.653	45.13	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5631.326	46.68	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

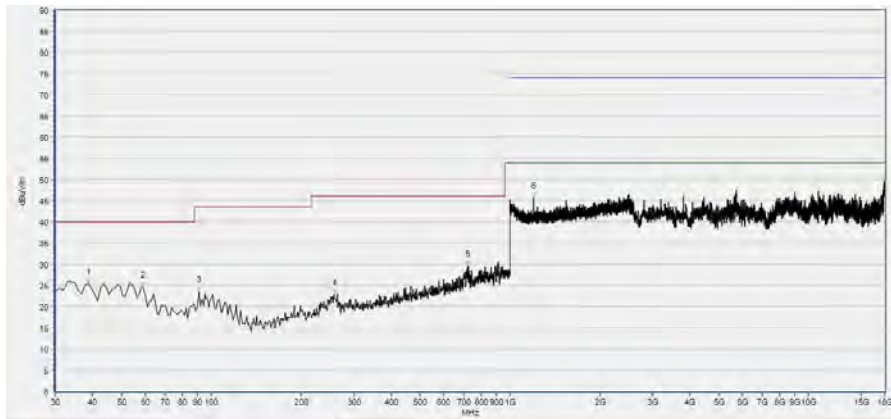
(Antenna Vertical, 30MHz to 18GHz)

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
54.274	26.63	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	24.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
255.265	21.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
542.673	26.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
854.354	29.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
8434.687	48.71	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

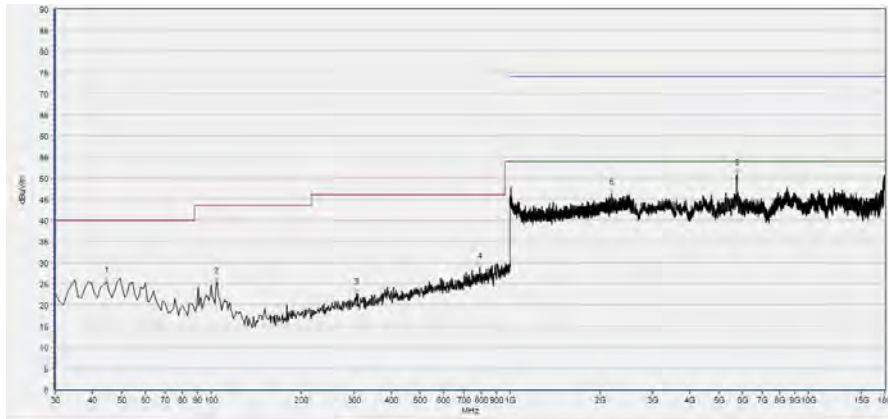
(Antenna Horizontal, 30MHz to 18GHz)



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
38.739	25.54	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
59.129	24.64	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
91.171	23.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
258.178	22.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
722.302	29.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1200.067	45.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

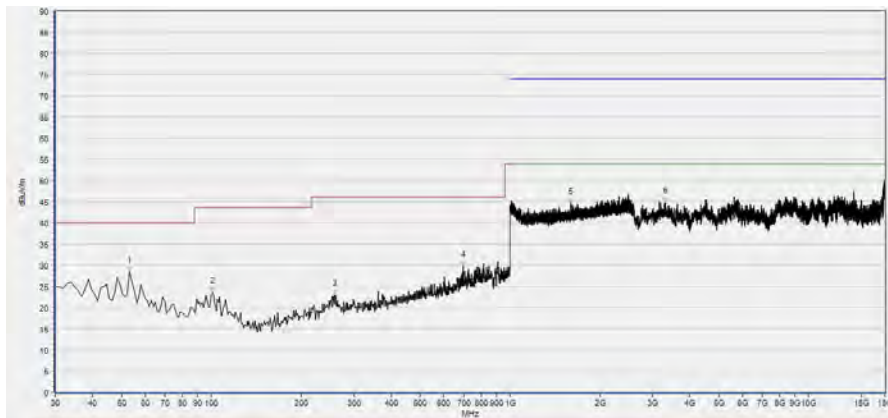
(Antenna Vertical, 30MHz to 18GHz)

Plots 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
44.565	25.49	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	25.43	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
306.727	22.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
793.183	28.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2183.861	46.18	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5751.470	50.87	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

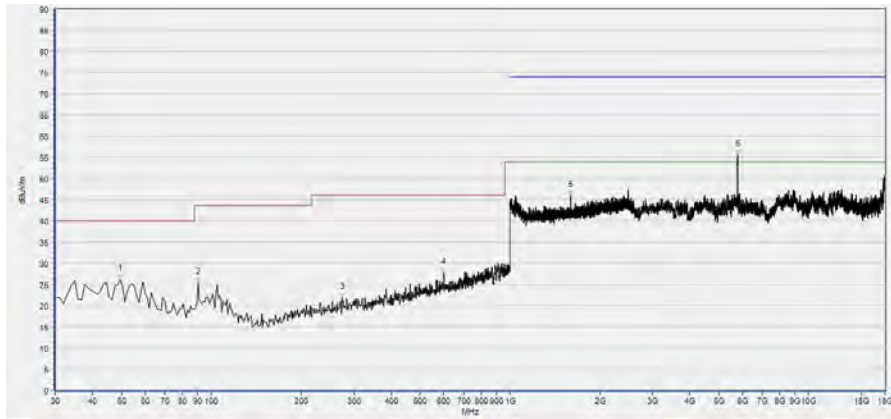
(Antenna Horizontal, 30MHz to 18GHz)



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
53.303	28.43	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	23.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
258.178	23.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
697.057	29.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1600.200	44.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3320.864	44.83	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

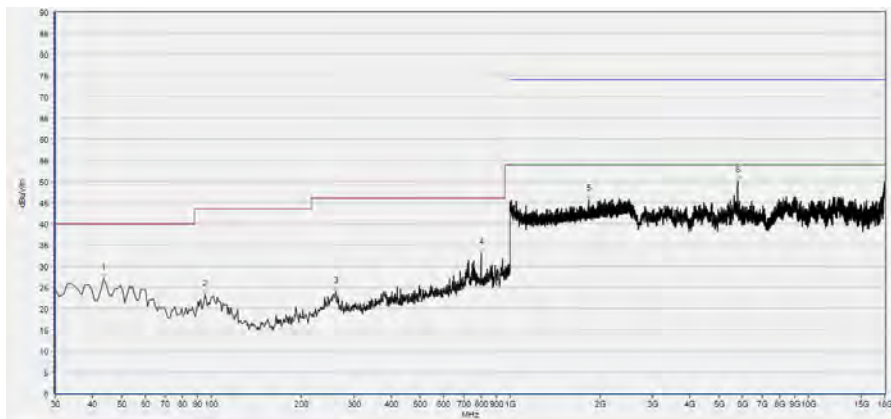
(Antenna Vertical, 30MHz to 18GHz)

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
49.419	26.07	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	25.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
274.685	21.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
599.960	27.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1599.667	45.83	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5785.357	55.54	N/A	N/A	74.00	N/A	54.00	Horizontal	N/A

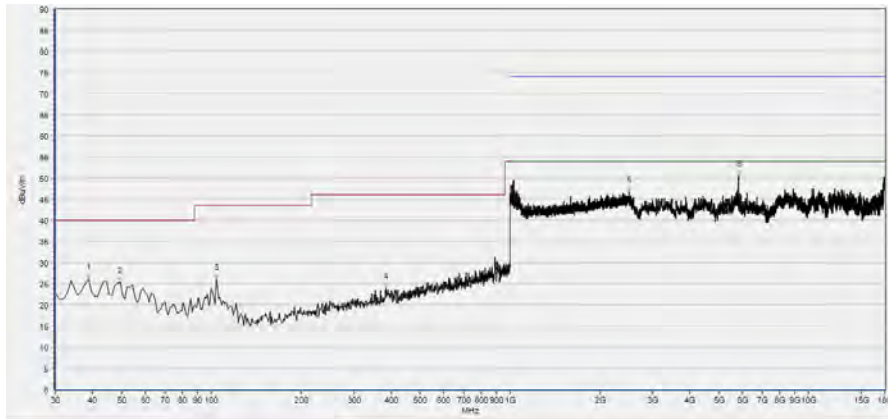
(Antenna Horizontal, 30MHz to 18GHz)



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
43.594	26.98	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
95.055	23.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
261.091	23.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
799.980	33.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1837.613	45.70	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5788.438	50.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

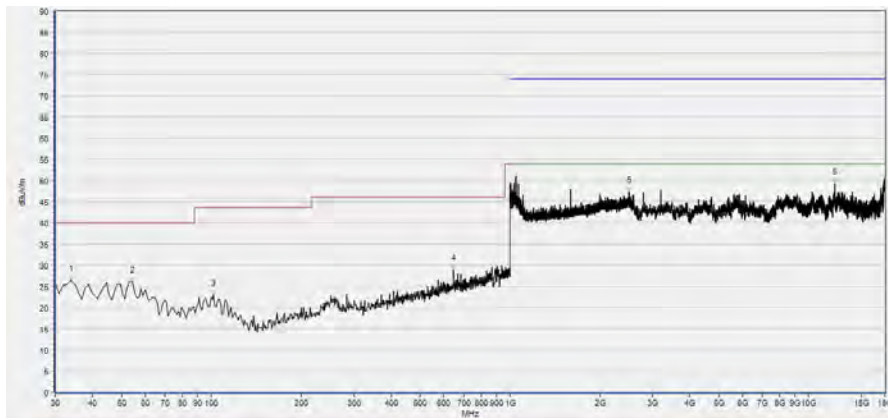
(Antenna Vertical, 30MHz to 18GHz)

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
38.739	26.09	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
49.419	25.28	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	26.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
384.404	24.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2503.968	46.72	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5819.244	50.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

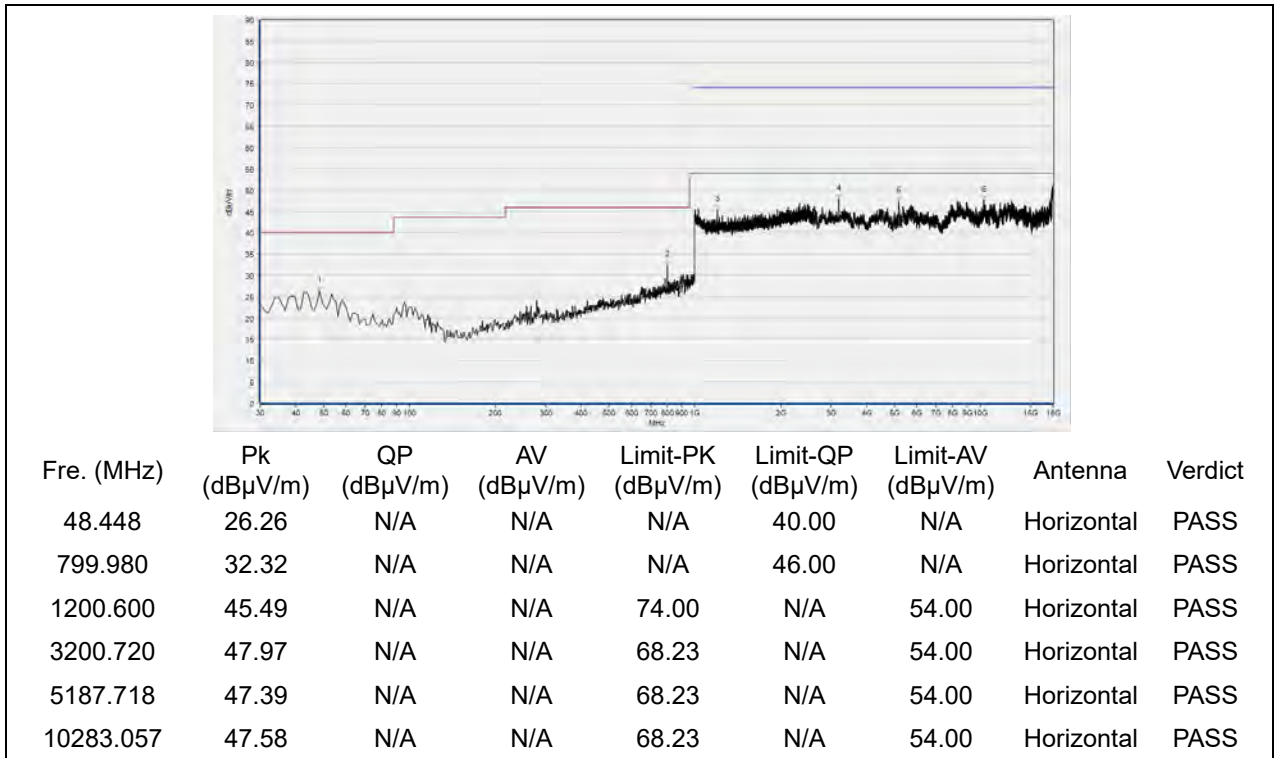


Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
33.884	26.39	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
54.274	26.15	N/A	N/A	N/A	40.00	54.00	Vertical	PASS
101.852	23.08	N/A	N/A	N/A	43.50	54.00	Vertical	PASS
647.538	28.84	N/A	N/A	N/A	46.00	54.00	Vertical	PASS
2503.968	47.29	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12248.490	49.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

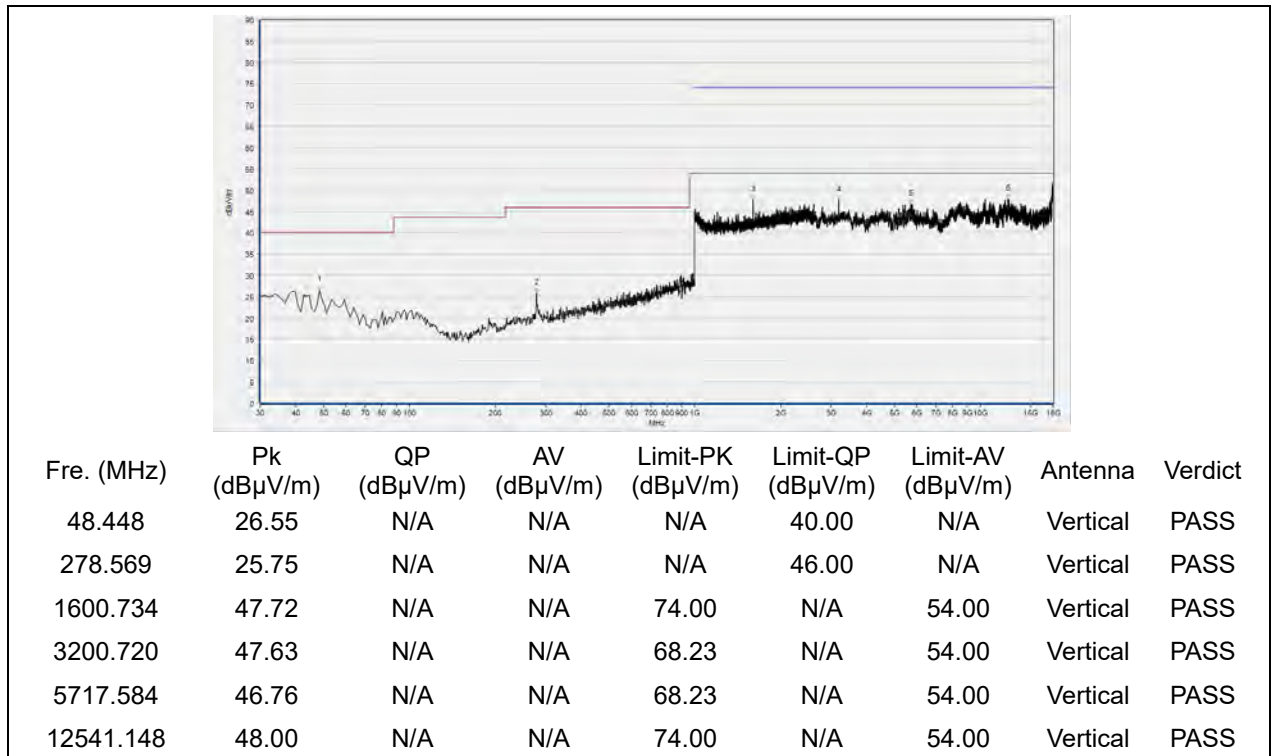
(Antenna Vertical, 30MHz to 18GHz)

802.11n (HT40) Test mode

Plots for Channel = 38

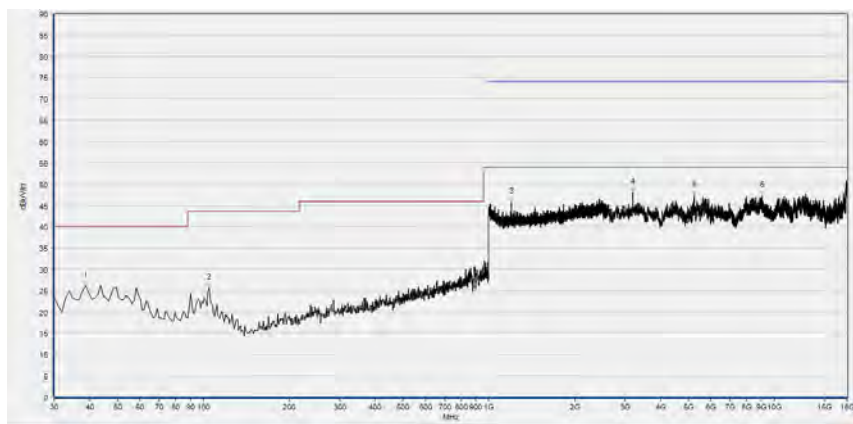


(Antenna Horizontal, 30MHz to 18GHz)



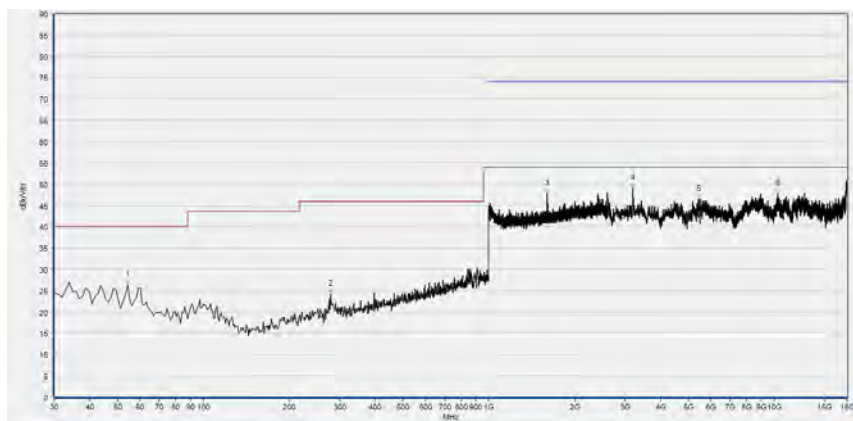
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 46



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
38.739	26.08	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	25.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1200.600	45.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3200.720	48.10	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5233.927	47.38	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
9056.971	47.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

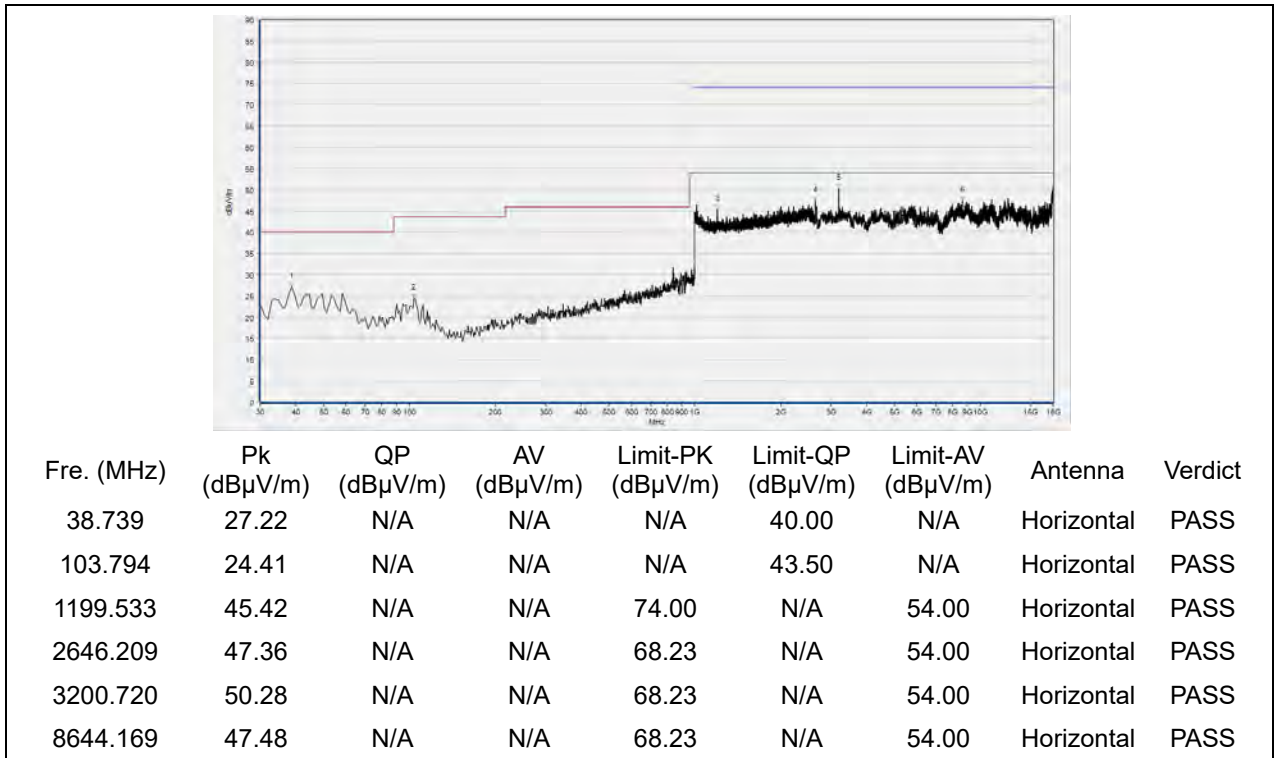
(Antenna Horizontal, 30MHz to 18GHz)



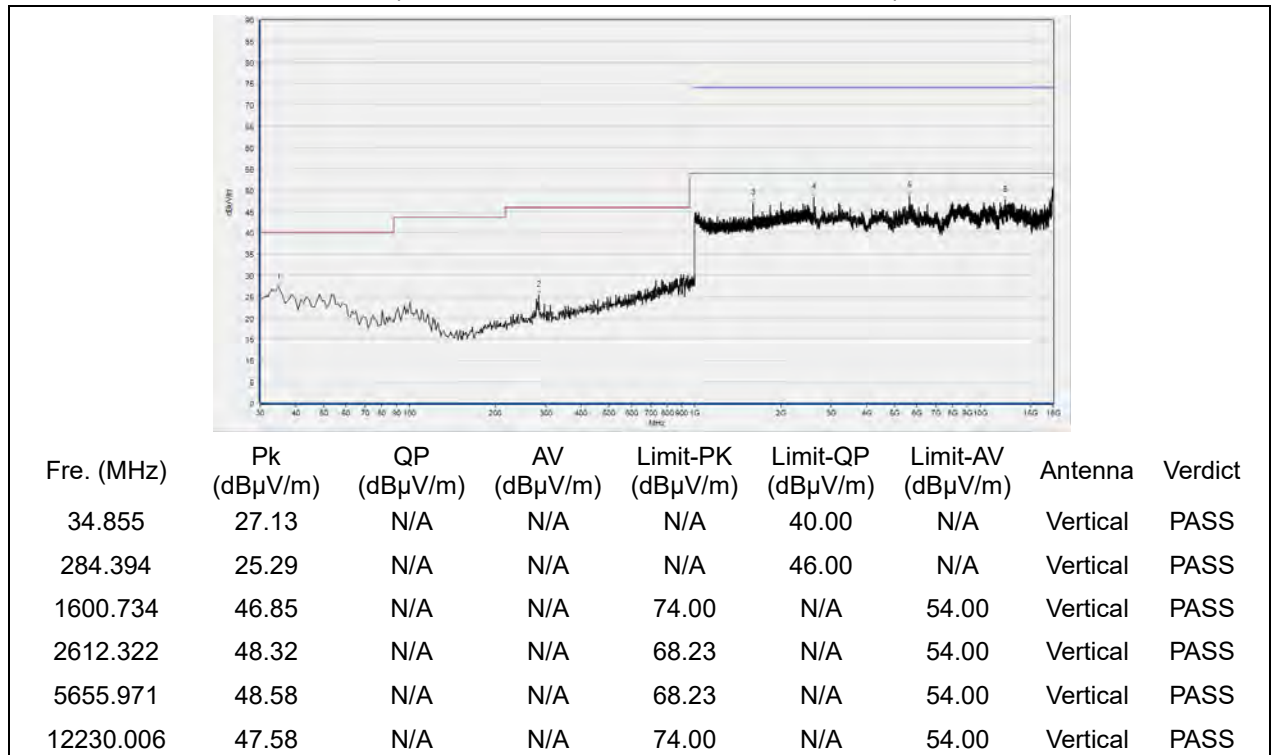
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	26.29	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
278.569	24.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1600.200	47.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3200.720	49.00	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5437.247	46.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10283.057	47.83	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 54

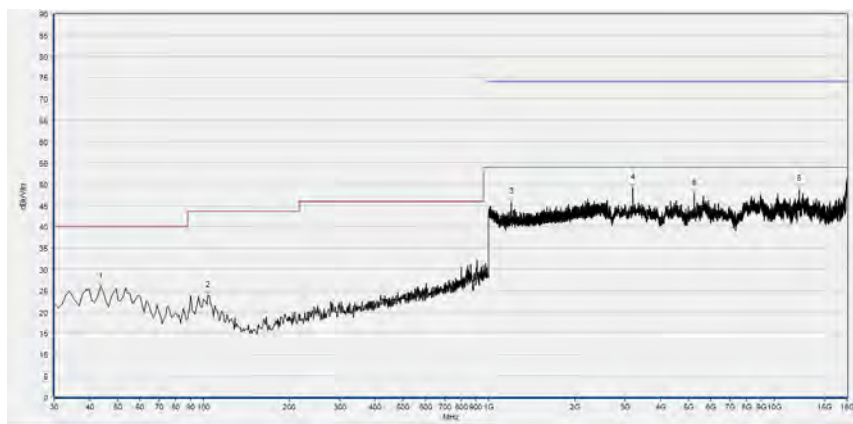


(Antenna Horizontal, 30MHz to 18GHz)



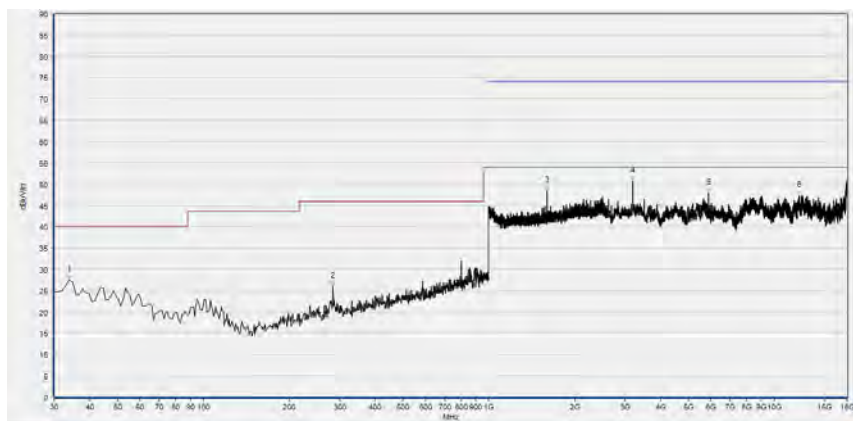
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 62



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
43.594	25.90	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	23.73	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1200.067	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3200.720	49.05	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5252.410	47.70	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12245.409	48.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

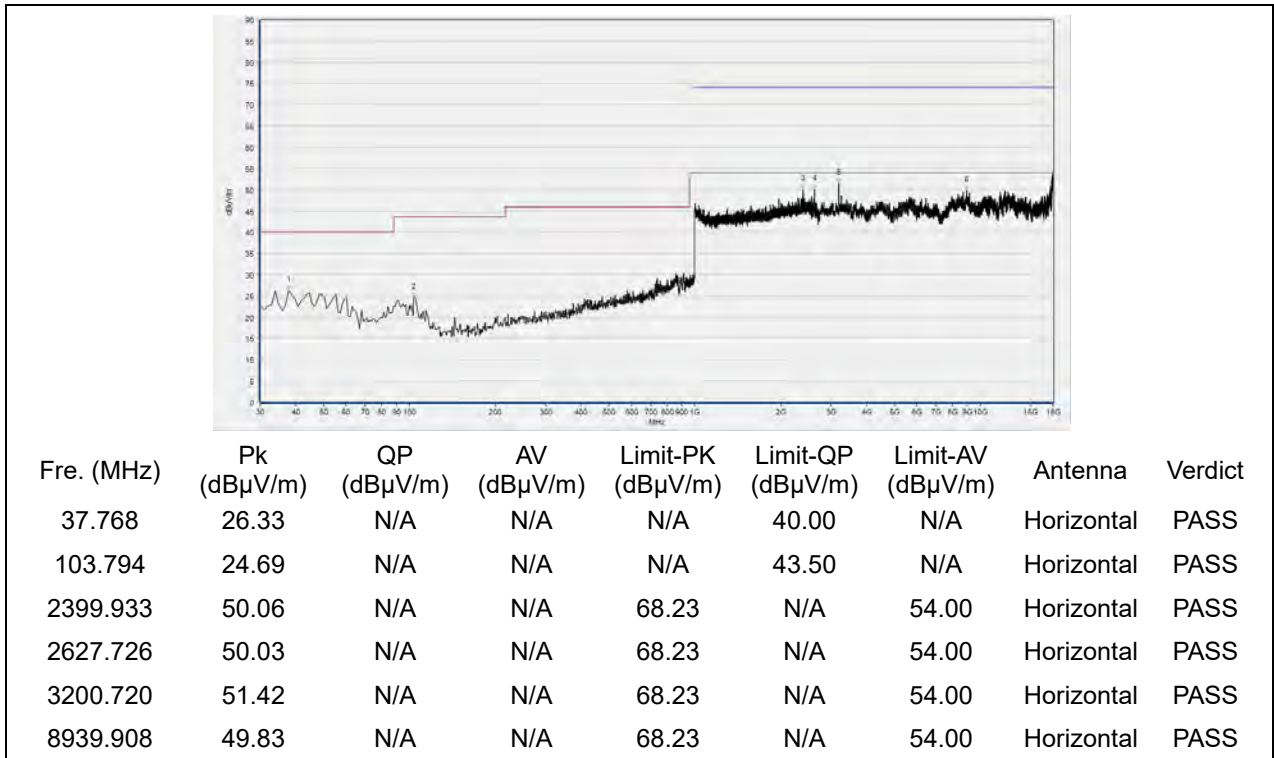
(Antenna Horizontal, 30MHz to 18GHz)



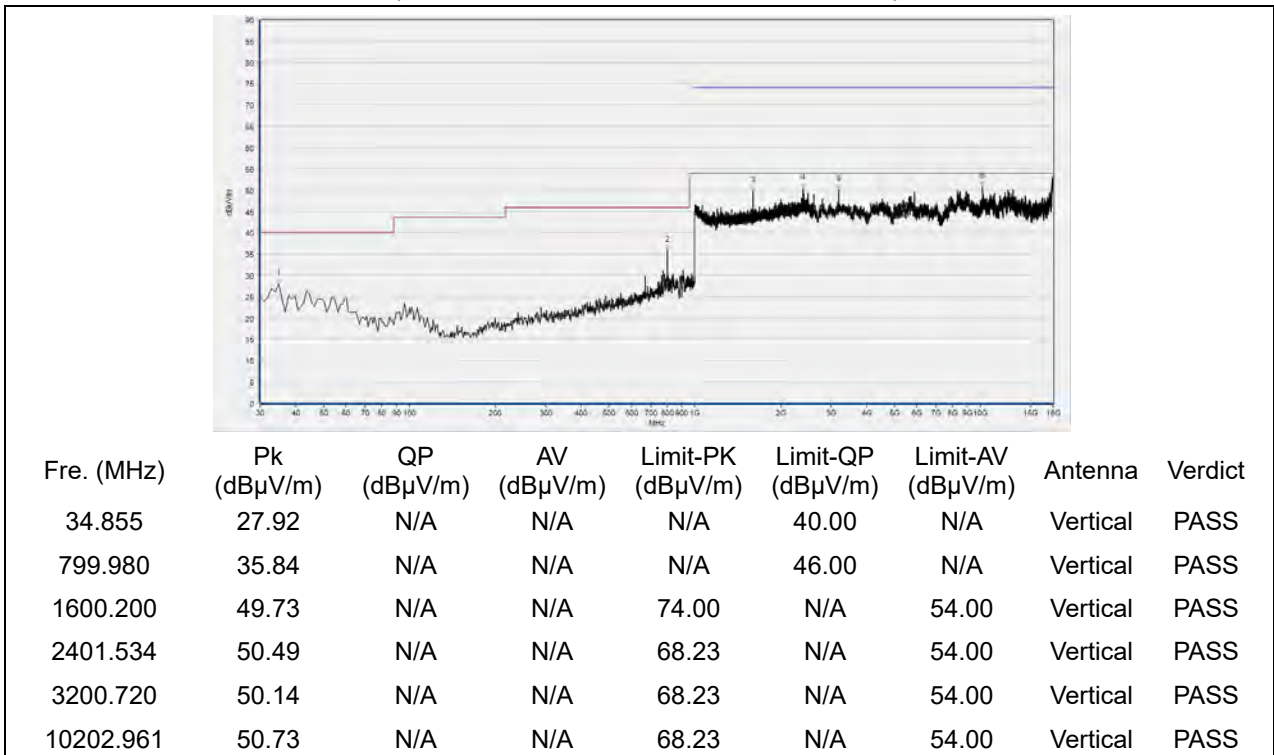
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
33.884	27.51	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
284.394	25.90	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1600.200	48.51	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3200.720	50.57	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5874.695	47.88	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12236.167	47.30	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 102

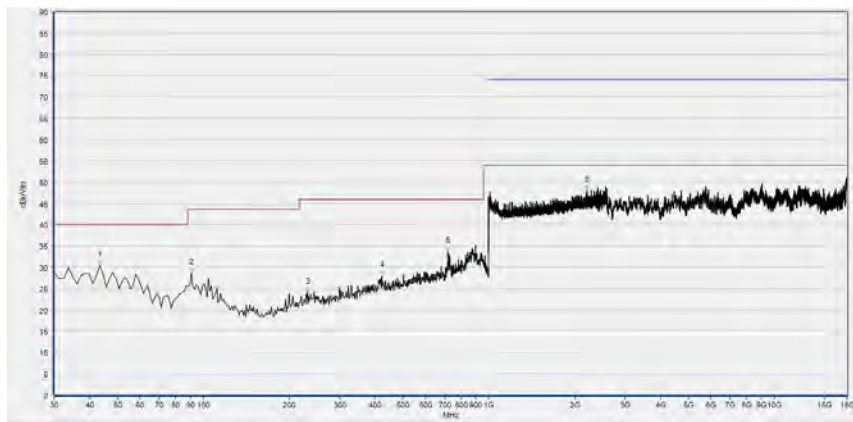


(Antenna Horizontal, 30MHz to 18GHz)



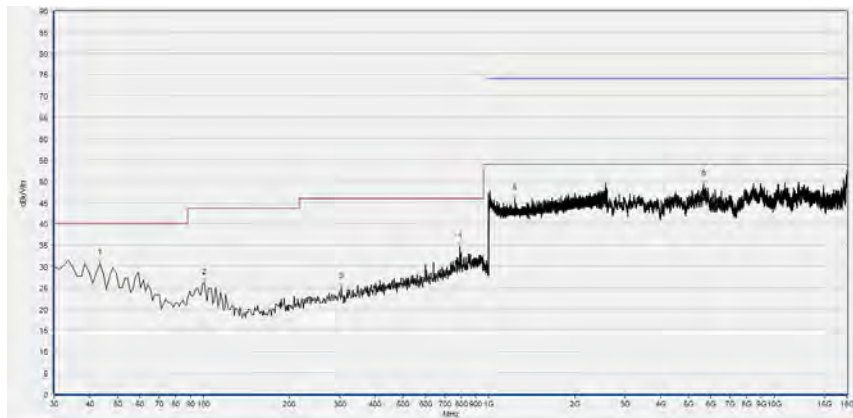
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 126



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
43.354	30.56	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.701	28.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
231.527	24.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
422.128	28.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
719.562	33.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2210.084	48.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

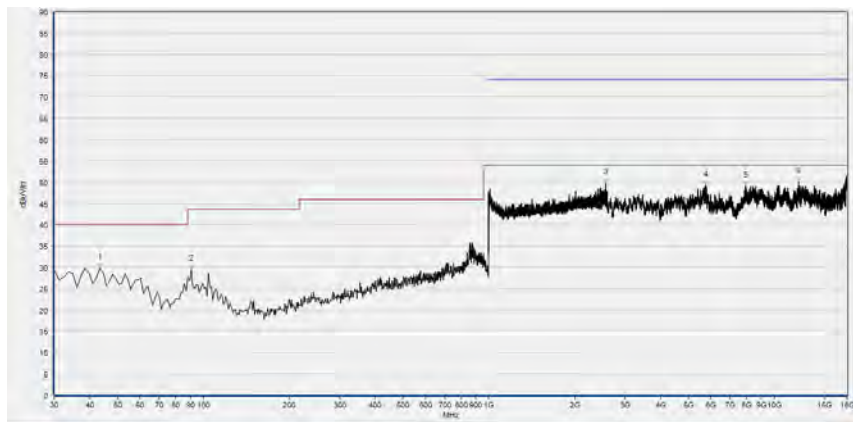
(Antenna Horizontal, 30MHz to 18GHz)



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
43.354	30.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.413	26.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
304.368	25.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
789.975	34.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1236.895	45.95	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5649.755	49.29	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

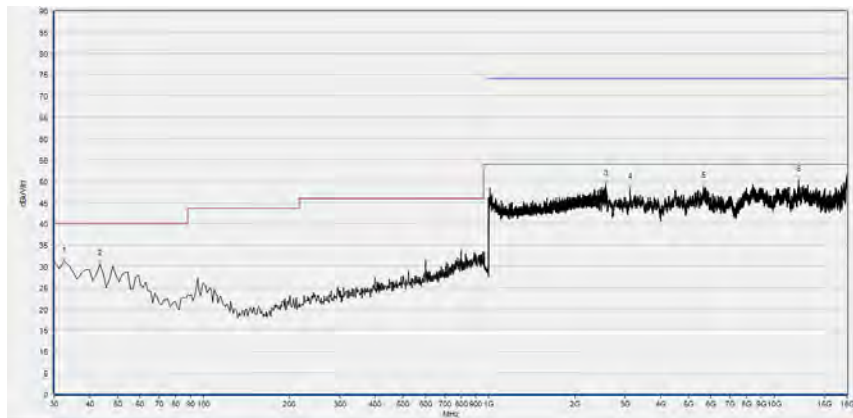
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 142



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
43.354	29.84	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.701	29.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2570.548	49.69	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5761.775	49.21	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
7946.172	49.08	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12144.135	50.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

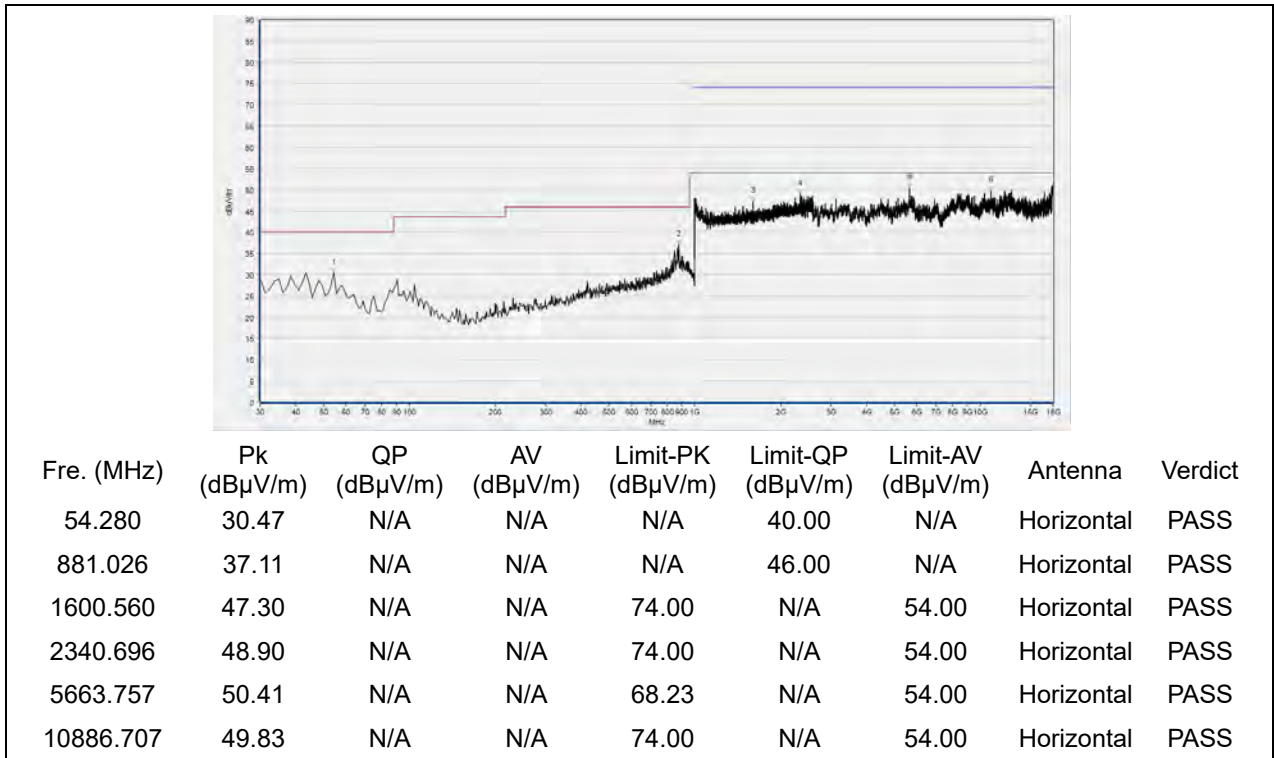
(Antenna Horizontal, 30MHz to 18GHz)



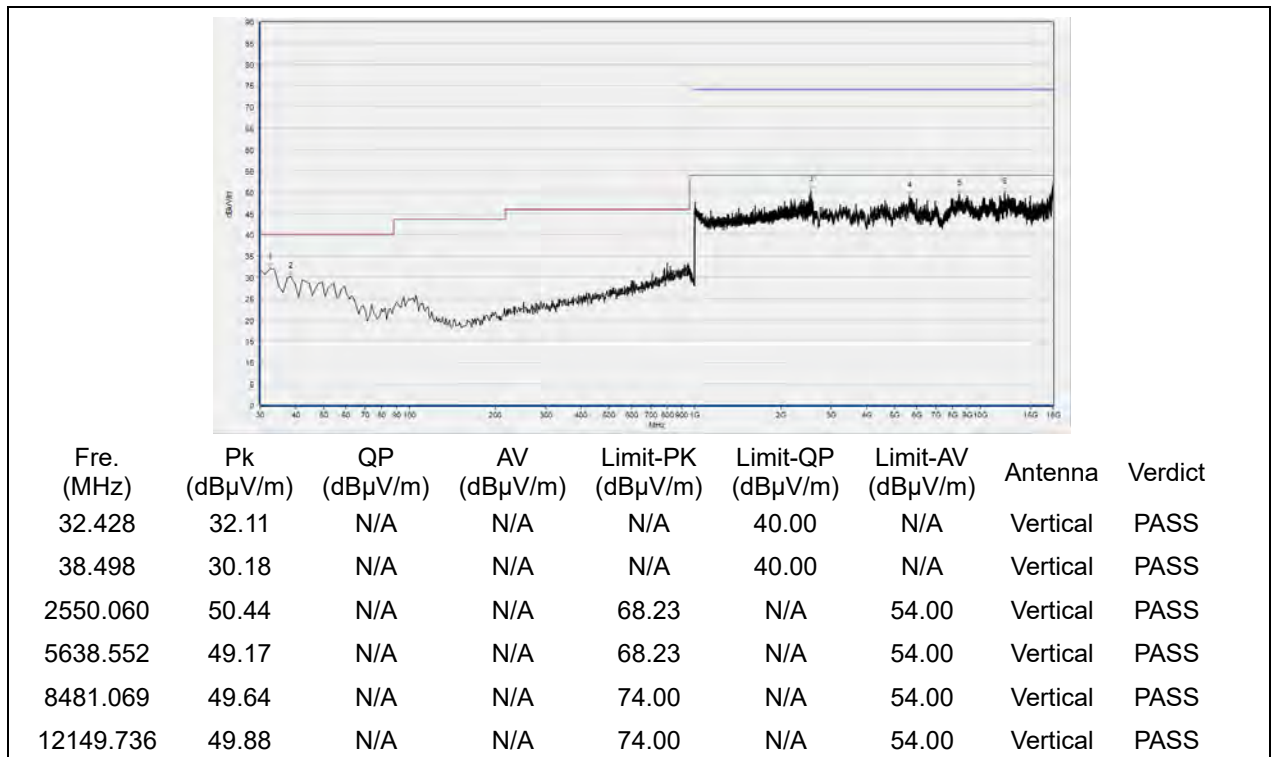
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
32.428	31.22	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
43.354	30.59	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
2569.908	49.25	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
3126.496	48.45	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5641.353	48.73	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12146.936	50.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 151

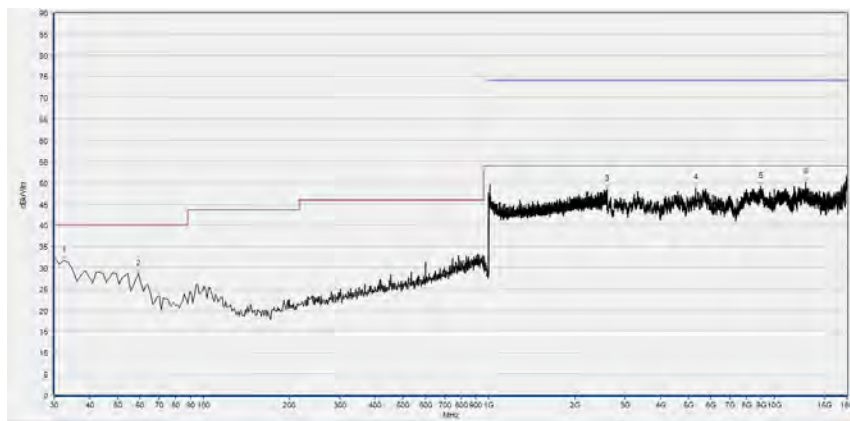


(Antenna Horizontal, 30MHz to 18GHz)



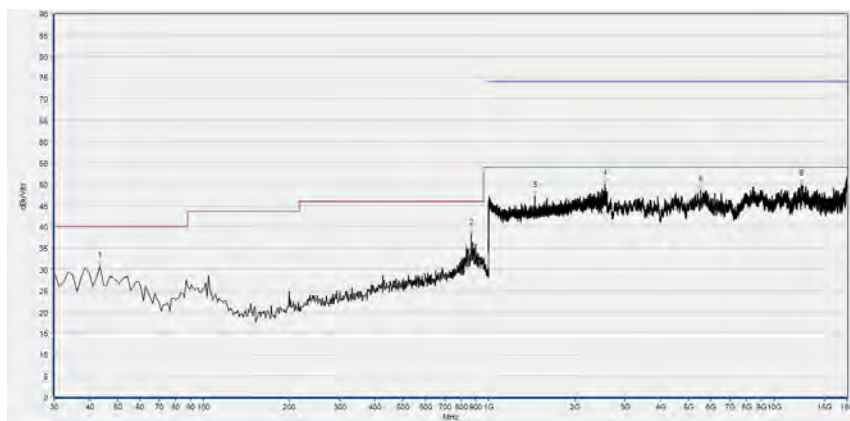
(Antenna Vertical, 30MHz to 18GHz)

Plots for Channel = 159



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
32.428	31.69	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
59.136	28.49	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
2589.756	48.43	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5316.494	48.78	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8937.552	49.09	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12889.071	50.11	N/A	N/A	68.23	N/A <td 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
43.354	30.61	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
866.458	38.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1446.899	47.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2551.981	50.07	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5529.333	48.64	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12482.997	49.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(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	Cal. Due
Attenuator 1	(N/A)	10dB	Resnet	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2019.04.09	2020.04.08
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2019.04.16	2020.04.15
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	YOMA	(N/A)	(N/A)	2019.01.22	2020.01.21
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Receiver	MY56400093	N9038A	KEYSIGHT	2019.05.08	2020.05.09
LISN	812744	NSLK 8127	Schwarzbeck	2019.05.08	2020.05.09
Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2019.05.08	2020.05.09
Coaxial cable(BNC)	CB01	EMC01	Morlab	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



4.4 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Receiver	MY54130016	N9038A	Agilent	2019.07.26	2020.07.25
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.08	2020.05.09
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2019.02.15	2020.02.14
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.07.26	2020.07.25
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2020.07.25
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	MA02	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.09
18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.09
26GHz -40GHz pre-Amplifier	MA05	BBV9721	Rohde& Schwarz	2019.05.08	2020.05.09
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2018.12.01	2019.11.30
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2018.12.01	2019.11.30



Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Anechoic Chamber	N/A	9m*6m*6m	CRT	2017.11.19	2020.11.18

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