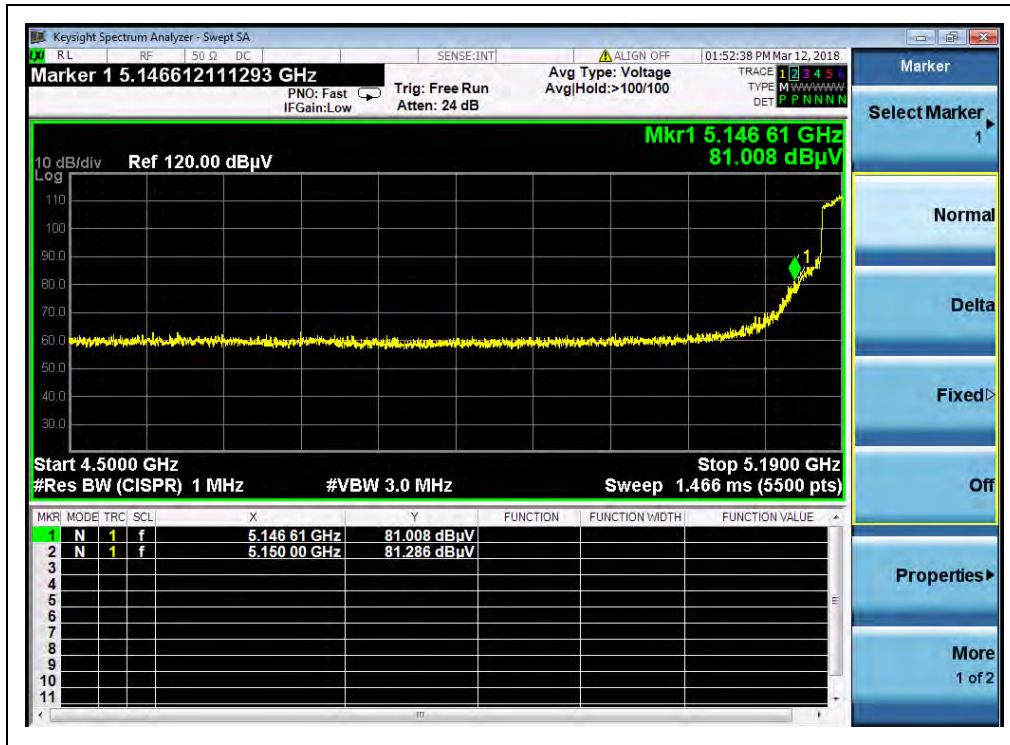




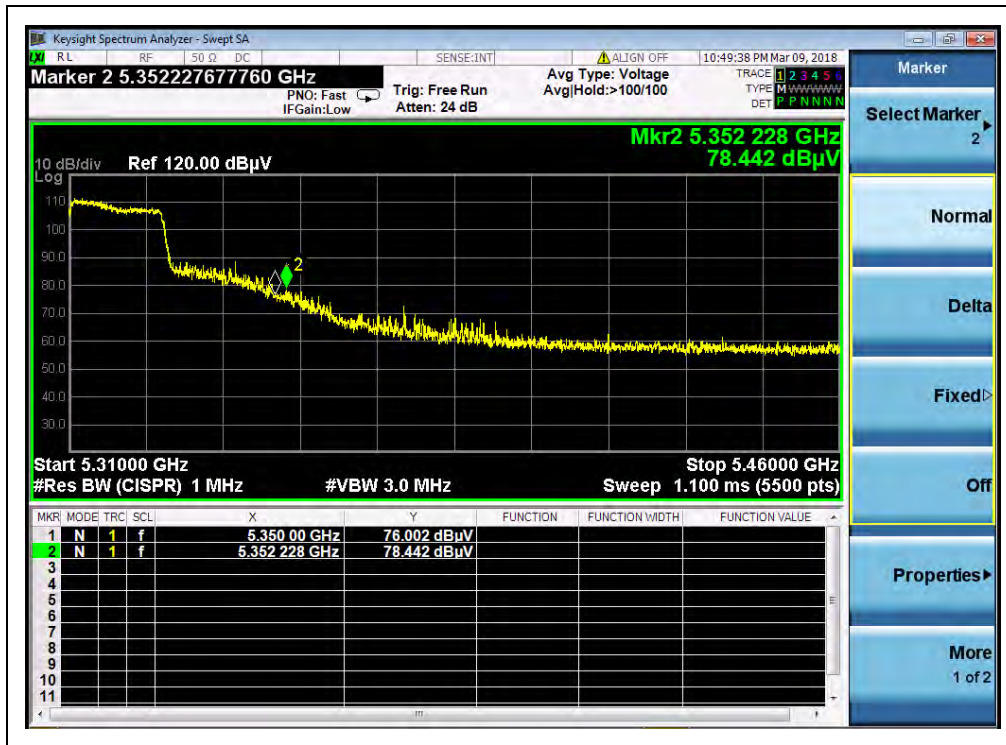
B. Test Plots:



(Channel 38, PEAK, 802.11 ac (VHT40))



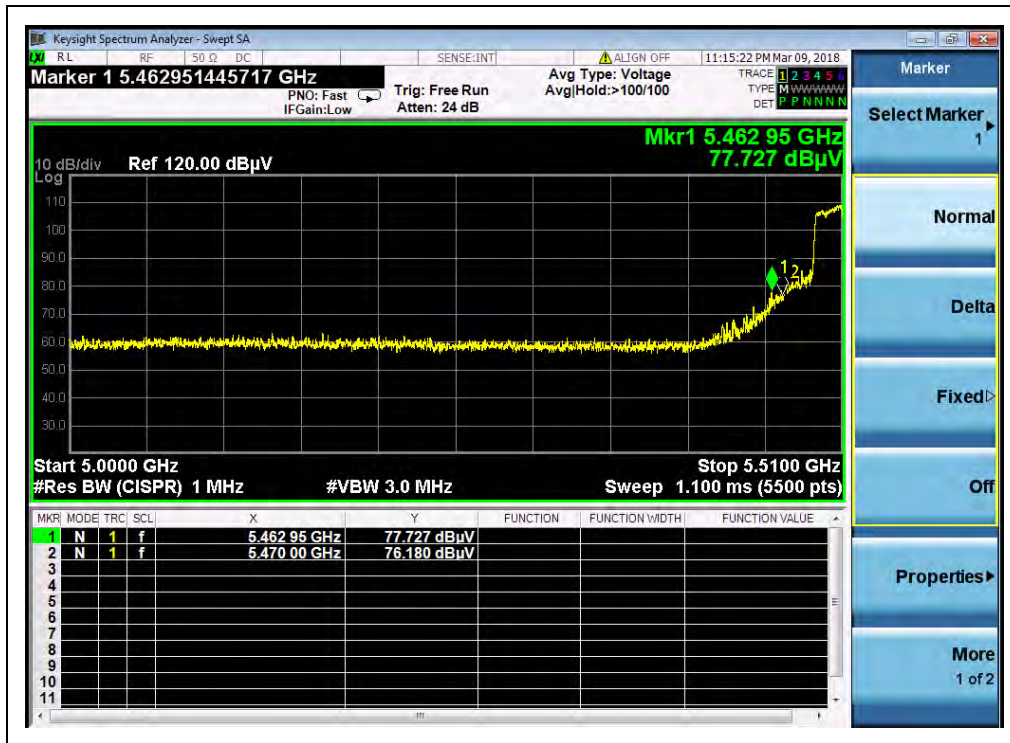
(Channel 38, AVG, 802.11 ac (VHT40))



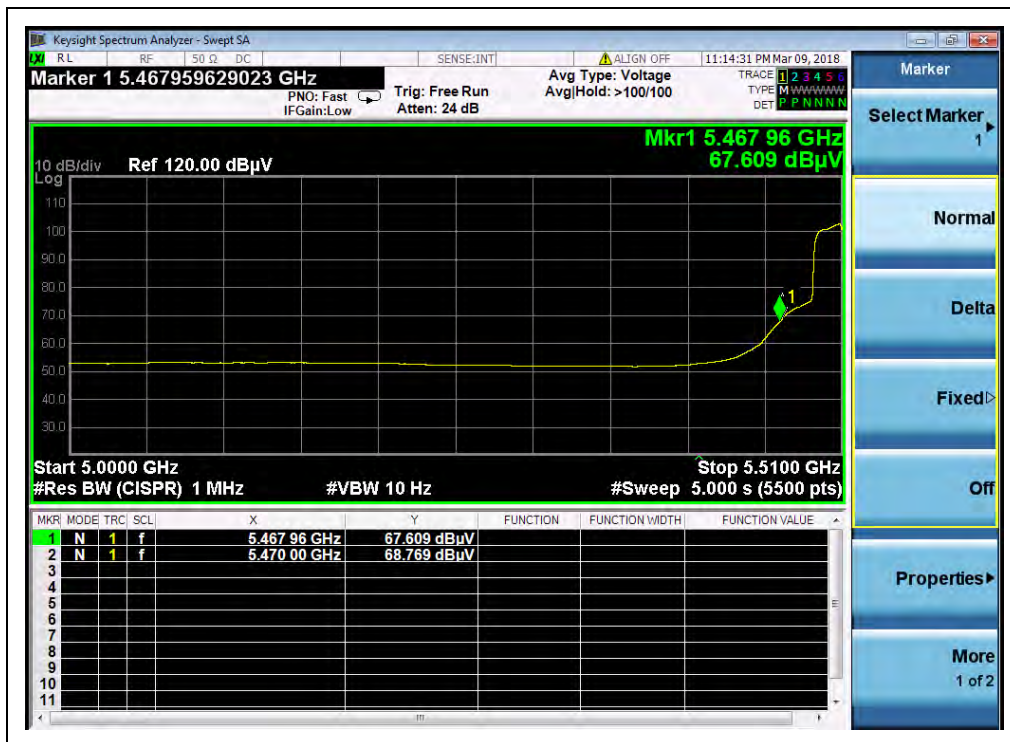
(Channel 62, PEAK, 802.11 ac (VHT40))



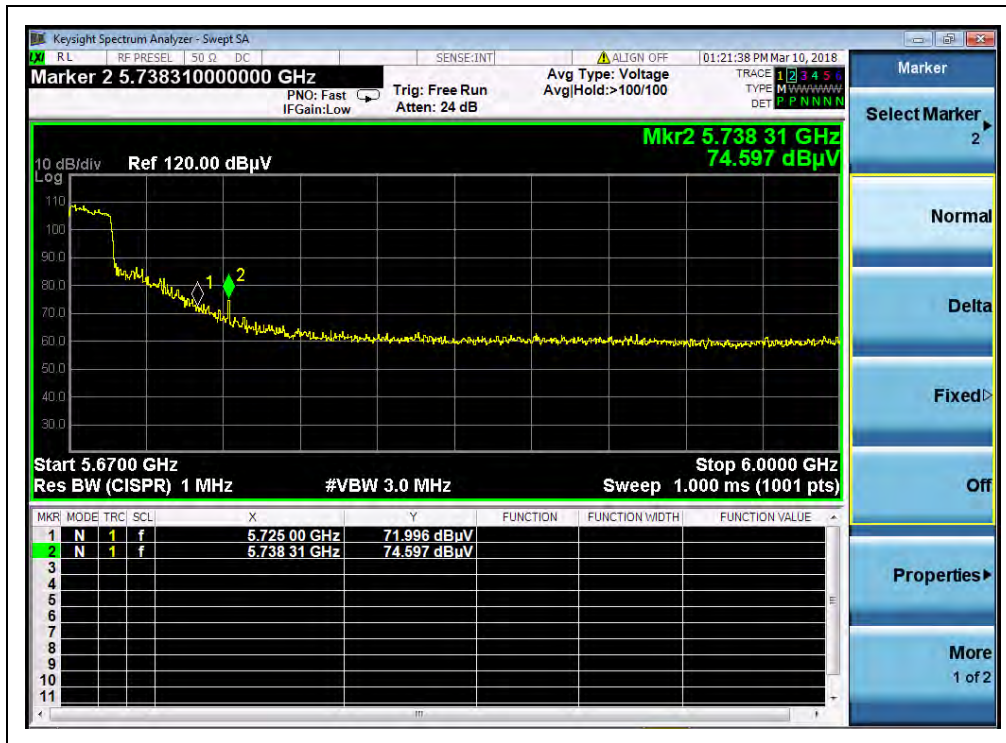
(Channel 62, AVG, 802.11 ac (VHT40))



(Channel 102, PEAK, 802.11 ac (VHT40))



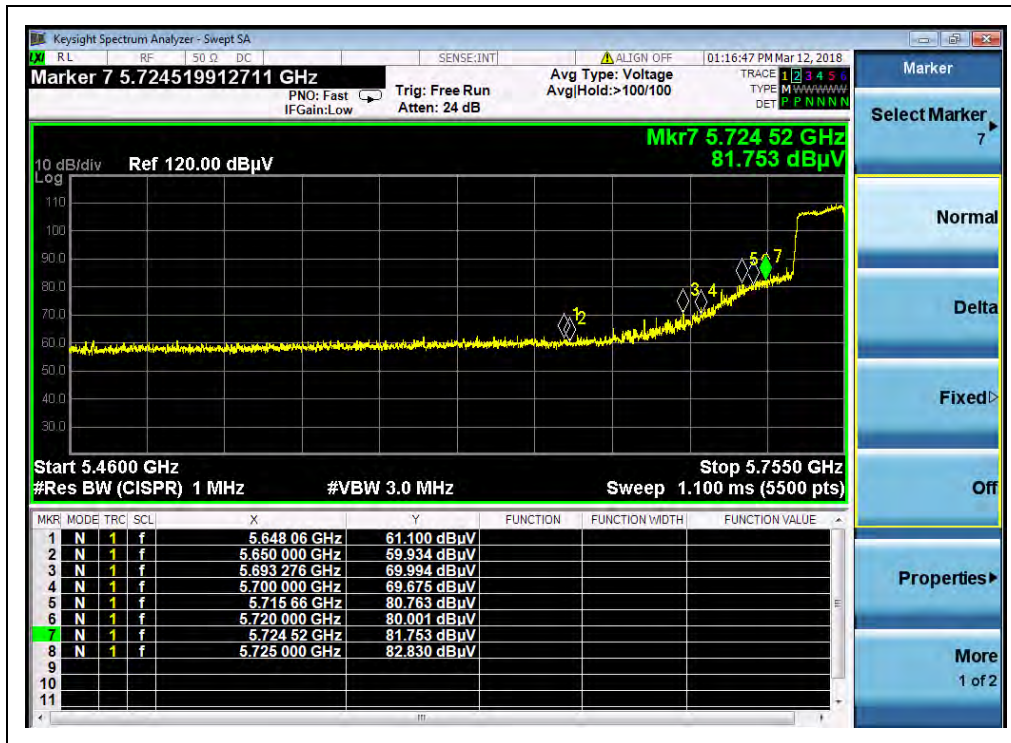
(Channel 102, AVG, 802.11 ac (VHT40))



(Channel 134, PEAK, 802.11 ac (VHT40))



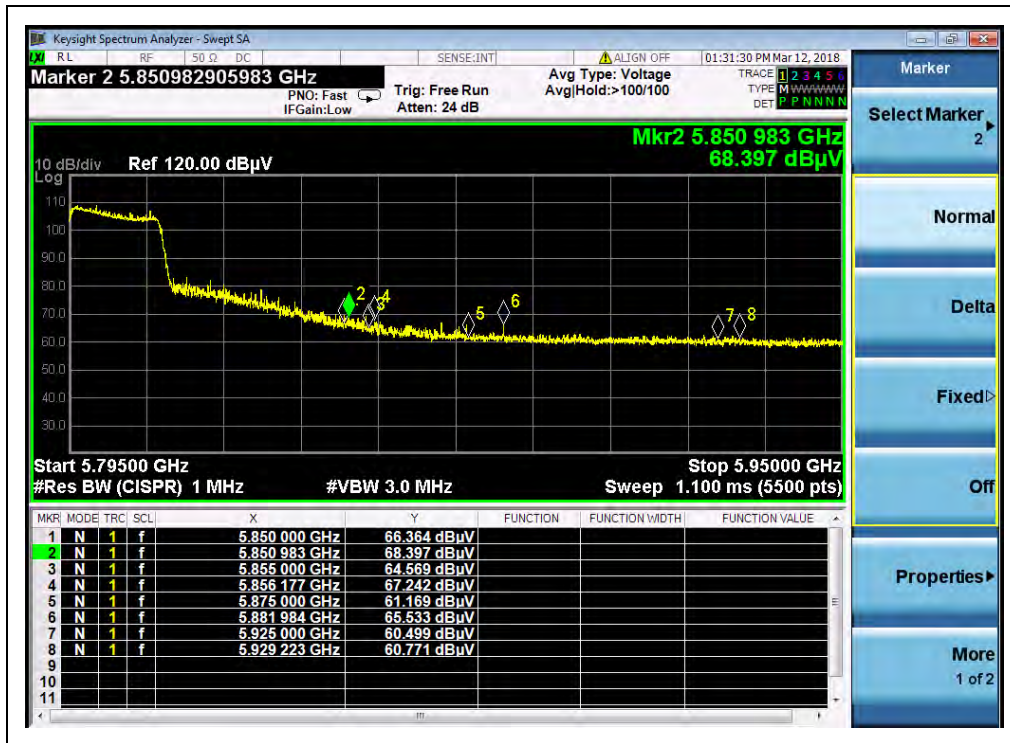
(Channel 134, AVG, 802.11 ac (VHT40))



(Channel 151, PEAK, 802.11 ac (VHT40))



(Channel 151, AVG, 802.11 ac (VHT40))



(Channel 159, PEAK, 802.11 ac (VHT40))



(Channel 159, AVG, 802.11ac (VHT40))



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

Frequency Stability Measurements for UNII Band 1 (Ch. 36)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	5.0	+20(Ref)	5,179,999,989	11	0.0000002
100%		-30	5,180,000,023	23	0.0000004
100%		-20	5,180,000,011	11	0.0000002
100%		-10	5,179,999,999	1	0.0000000
100%		0	5,180,000,018	18	0.0000003
100%		+10	5,180,000,022	22	0.0000004
100%		+20	5,179,999,987	13	0.0000003
100%		+30	5,180,000,017	17	0.0000003
100%		+40	5,180,000,021	21	0.0000004
100%		+50	5,180,000,018	18	0.0000003
85%	3.8	+20	5,179,999,989	11	0.0000002
115%	5.6	+20	5,179,999,995	5	0.0000001



Frequency Stability Measurements for UNII Band 2A (Ch. 52)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	5.0	+20(Ref)	5,260,000,014	14	0.0000003
100%		-30	5,260,000,028	28	0.0000005
100%		-20	5,260,000,024	24	0.0000005
100%		-10	5,259,999,996	4	0.0000001
100%		0	5,259,999,989	11	0.0000002
100%		+10	5,260,000,015	15	0.0000003
100%		+20	5,260,000,017	17	0.0000003
100%		+30	5,259,999,994	6	0.0000001
100%		+40	5,259,999,983	17	0.0000003
100%		+50	5,260,000,013	13	0.0000002
85%		3.8	+20	5,260,000,018	18
115%	5.6	+20	5,259,999,998	2	0.0000000

Frequency Stability Measurements for UNII Band 2C (Ch. 100)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	5.0	+20(Ref)	5,500,000,015	15	0.0000003
100%		-30	5,500,000,019	19	0.0000003
100%		-20	5,500,000,024	24	0.0000004
100%		-10	5,499,999,996	4	0.0000001
100%		0	5,500,000,006	6	0.0000001
100%		+10	5,499,999,994	6	0.0000001
100%		+20	5,500,000,018	18	0.0000003
100%		+30	5,500,000,021	21	0.0000004
100%		+40	5,500,000,020	20	0.0000004
100%		+50	5,500,000,010	10	0.0000002
85%		3.8	+20	5,500,000,027	27
115%	5.6	+20	5,499,999,994	6	0.0000001



Frequency Stability Measurements for UNII Band 3 (Ch. 149)

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq Dev. (Hz)	Deviation (%)
100%	5.0	+20(Ref)	5,745,000,011	11	0.0000002
100%		-30	5,744,999,989	11	0.0000002
100%		-20	5,745,000,015	15	0.0000003
100%		-10	5,744,999,994	6	0.0000001
100%		0	5,744,999,988	12	0.0000002
100%		+10	5,744,999,993	7	0.0000001
100%		+20	5,745,000,015	15	0.0000003
100%		+30	5,745,000,017	17	0.0000003
100%		+40	5,744,999,988	12	0.0000002
100%		+50	5,745,000,025	25	0.0000004
85%		3.8	+20	5,745,000,017	17
115%	5.6	+20	5,744,999,996	4	0.0000001

Note: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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).

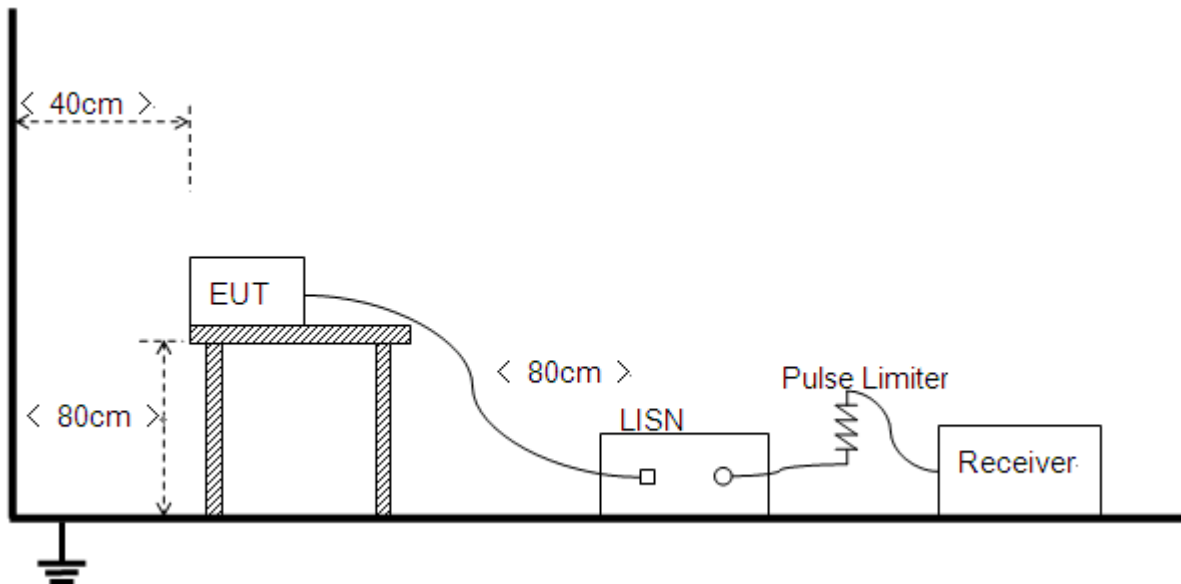
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

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

2.7.2. Test Description

A. 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. Refer to recorded points and plots below.

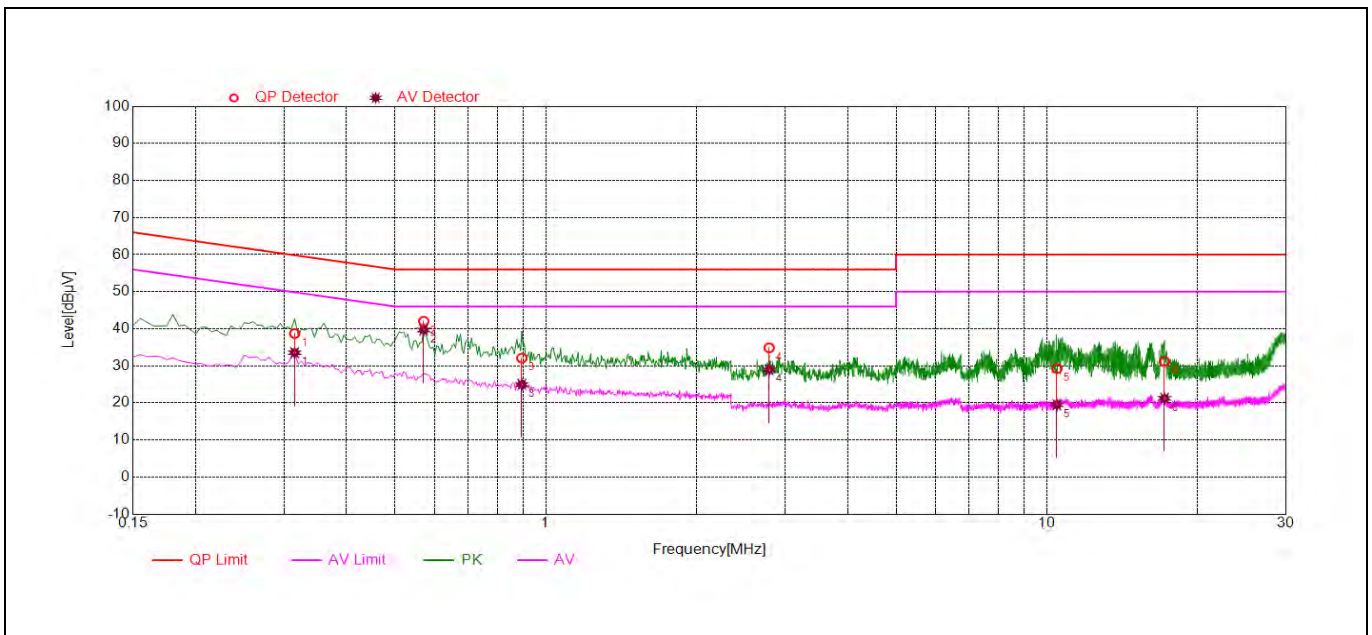
Note: All test modes are performed, only the worst case is recorded in this report.

A. Test setup:

The EUT configuration of the emission tests is EUT + Link.

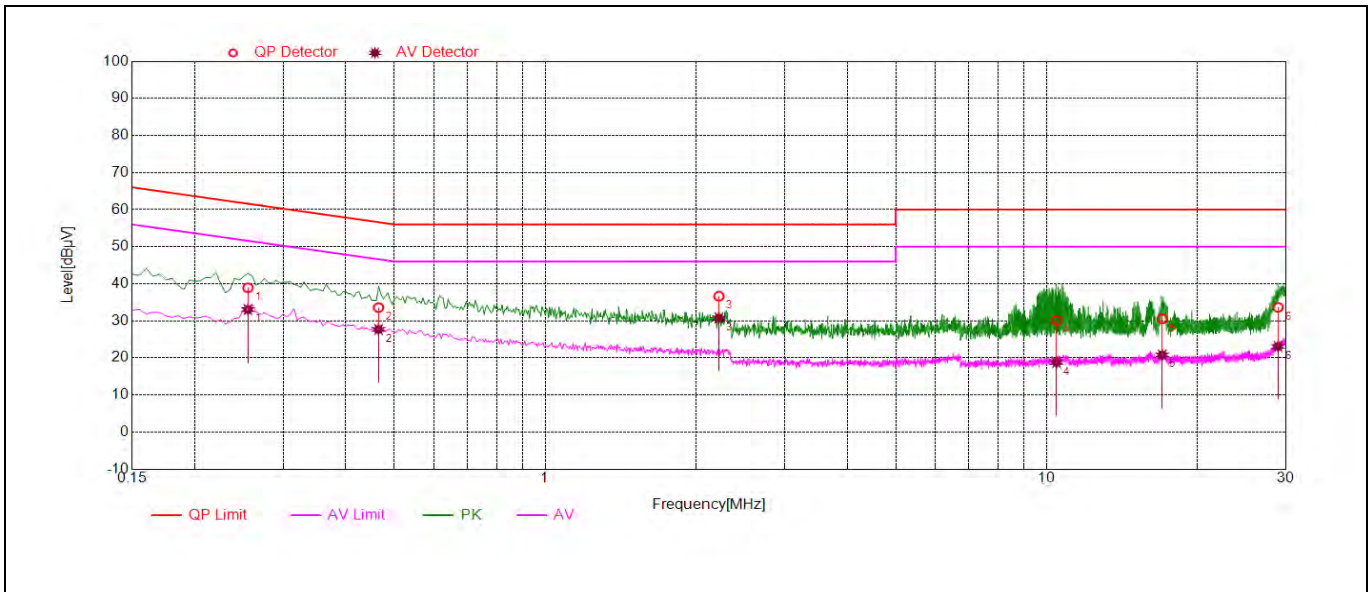
Note: The test voltage is AC 120V/60Hz.

B. Test Plots:



(Plot A: L Phase)

NO.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.31	38.72	33.54	59.84	33.54	Line	PASS
2	0.57	42.04	39.67	56.00	39.67		PASS
3	0.89	32.09	24.98	56.00	24.98		PASS
4	2.79	34.86	28.95	56.00	28.95		PASS
5	10.47	29.25	19.48	60.00	19.48		PASS
6	17.18	31.17	21.22	60.00	21.22		PASS



(Plot B: N Phase)

NO.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.26	38.91	33.04	61.59	51.59	Neutral	PASS
2	0.46	33.58	27.69	56.61	46.61		PASS
3	2.22	36.64	30.76	56.00	46.00		PASS
4	10.47	30.17	18.78	60.00	50.00		PASS
5	17.01	30.57	20.79	60.00	50.00		PASS
6	28.96	33.64	23.09	60.00	50.00		PASS



2.8. Radiated Emission

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: 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

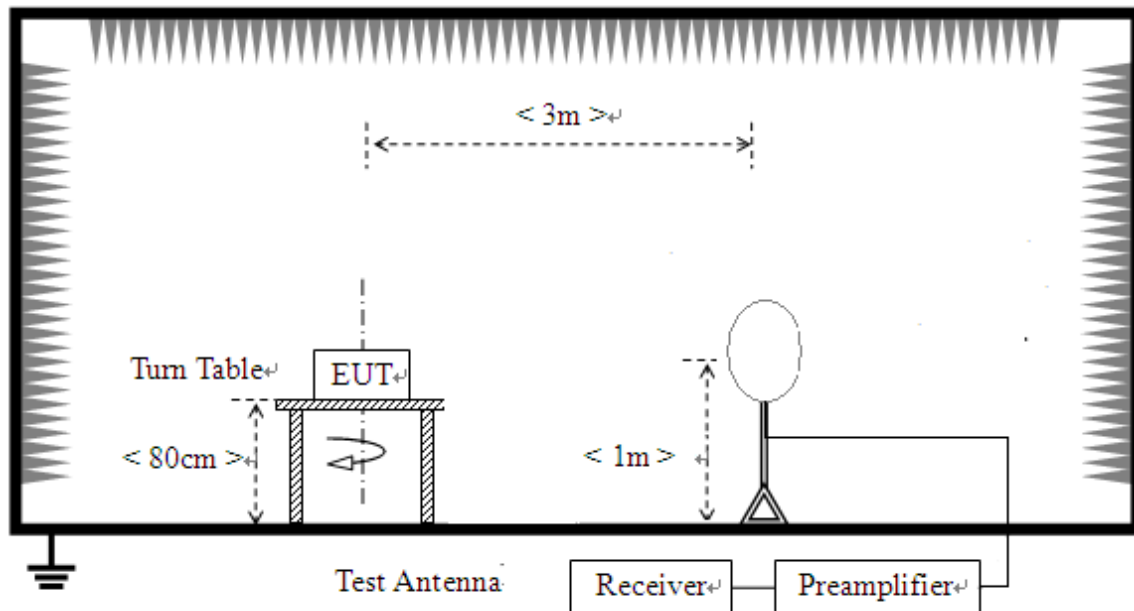
Note:

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.

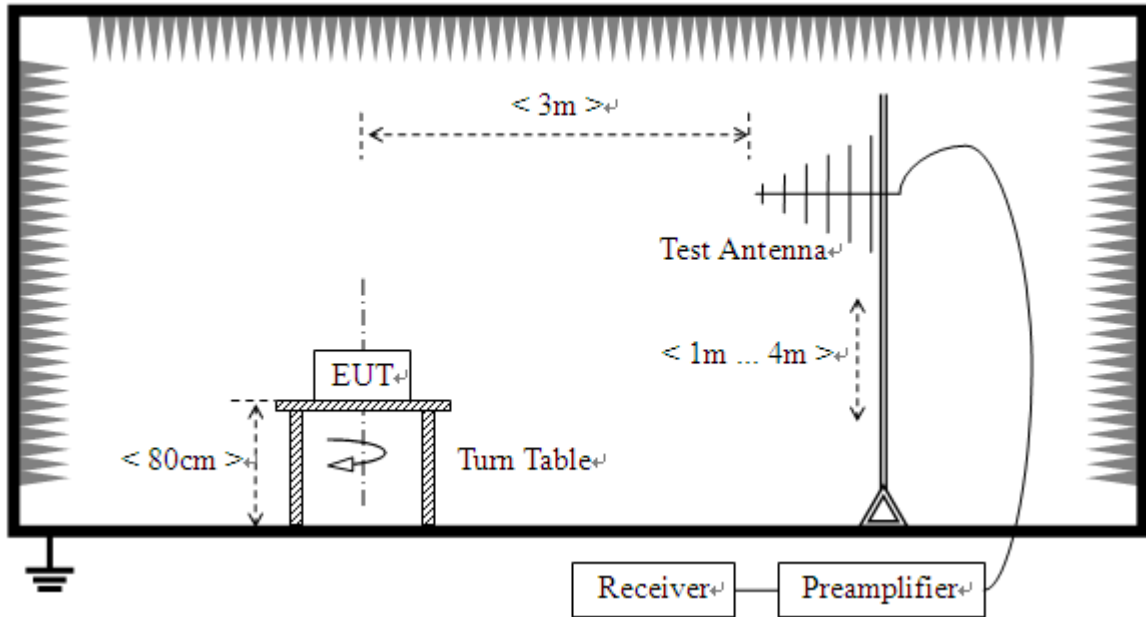
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

2.8.2. Test Description**A. Test Setup:**

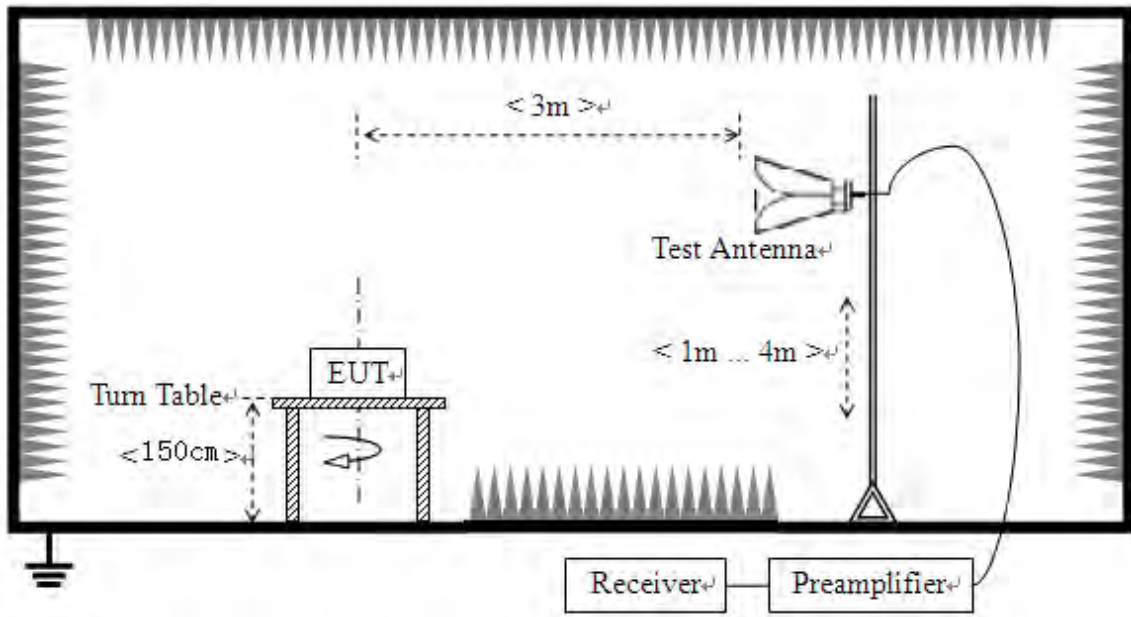
- 1) For radiated emissions from 9kHz to 30MHz



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.



2.8.3. 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.

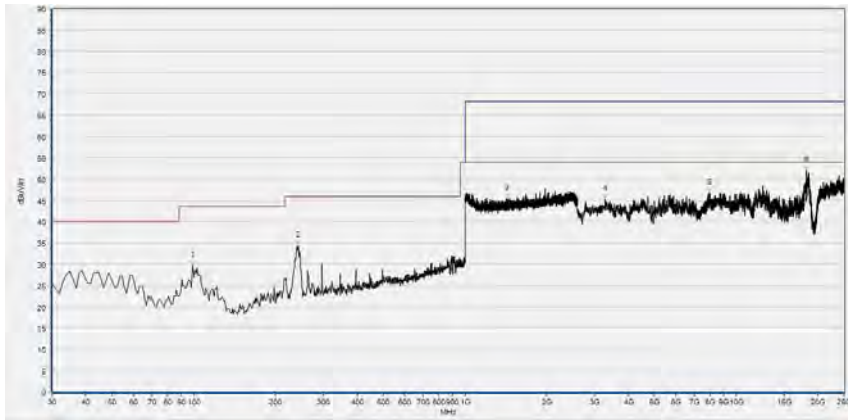
Note2: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not recorded.

Note3: For the frequency, which started from 25GHz to 40GHz, was pre-scanned and the result which was 10dB lower than the limit was not recorded.



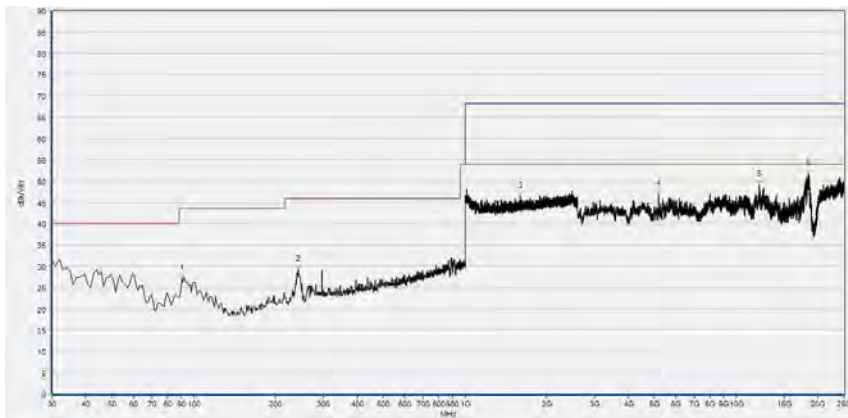
802.11a Test mode

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
98.939	29.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
242.643	34.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1426.275	45.34	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
3285.577	45.31	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
7932.266	46.84	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18166.633	50.96	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

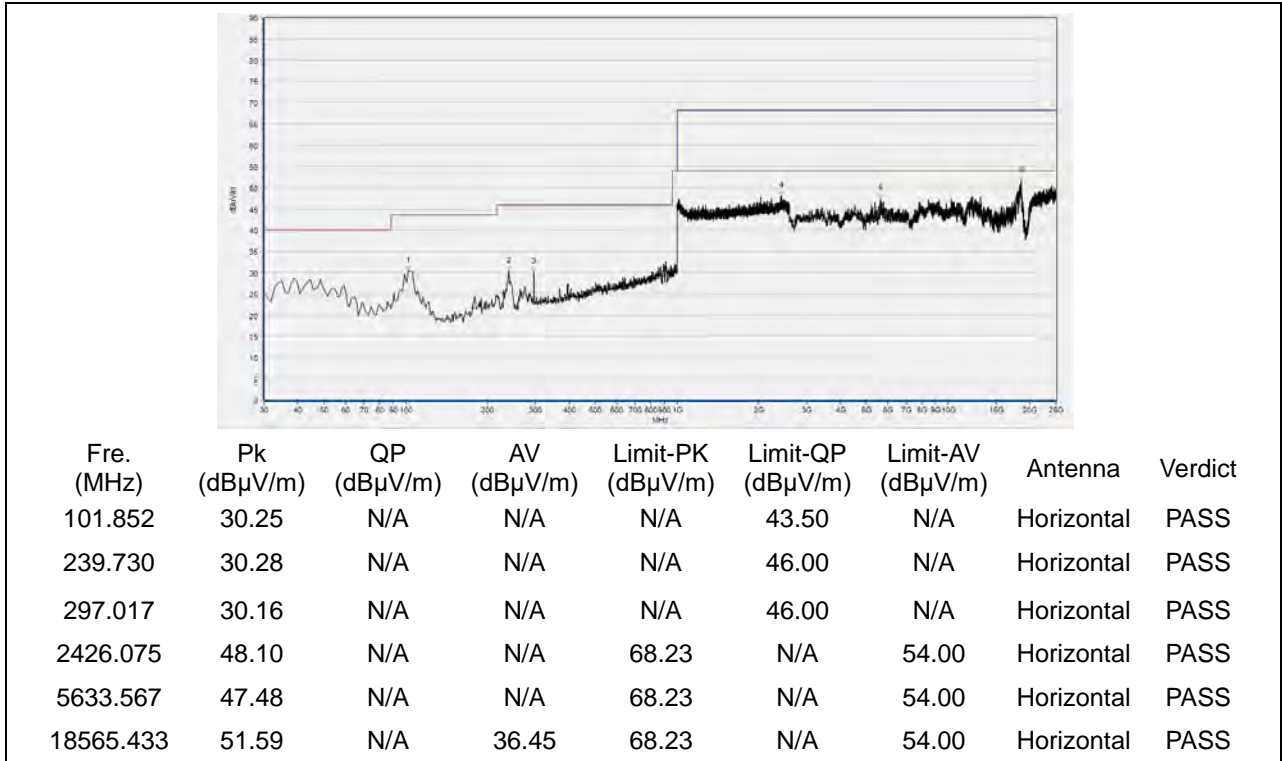
(Antenna Horizontal, 30MHz to 25GHz)



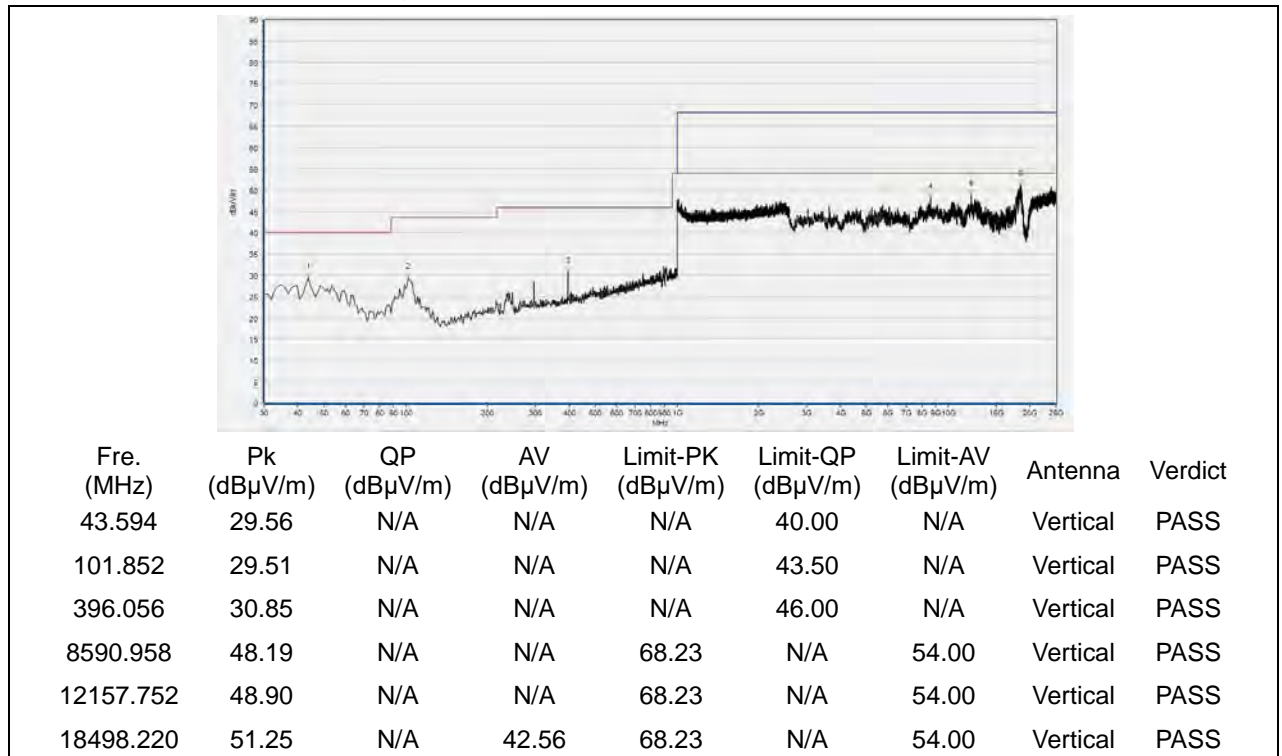
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
90.200	27.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
242.643	29.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1598.600	46.35	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5180.996	46.95	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12162.232	49.12	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18435.000	52.21	N/A	39.98	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 44

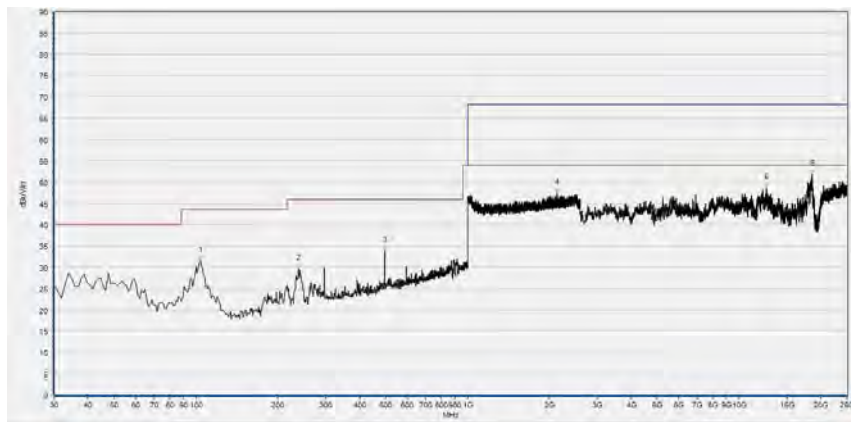


(Antenna Horizontal, 30MHz to 25GHz)



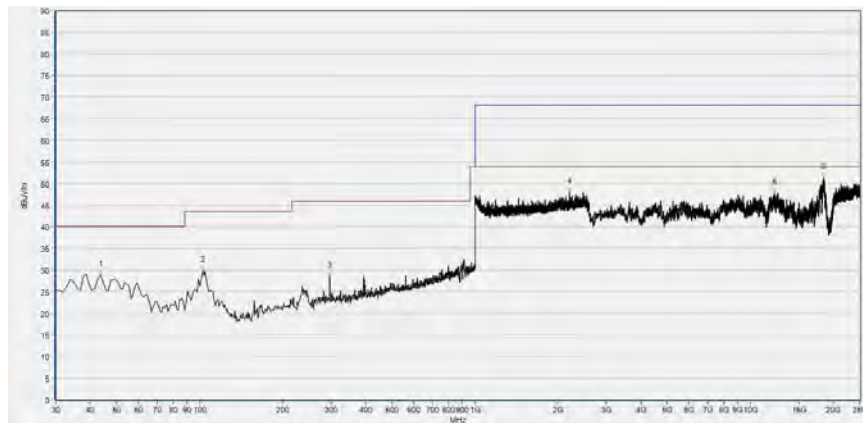
(Antenna Vertical, 30MHz to 25GHz)

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
103.794	31.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	29.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
495.095	33.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2136.912	47.49	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12605.841	48.56	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18574.395	51.71	N/A	41.89	68.23	N/A	54.00	Horizontal	PASS

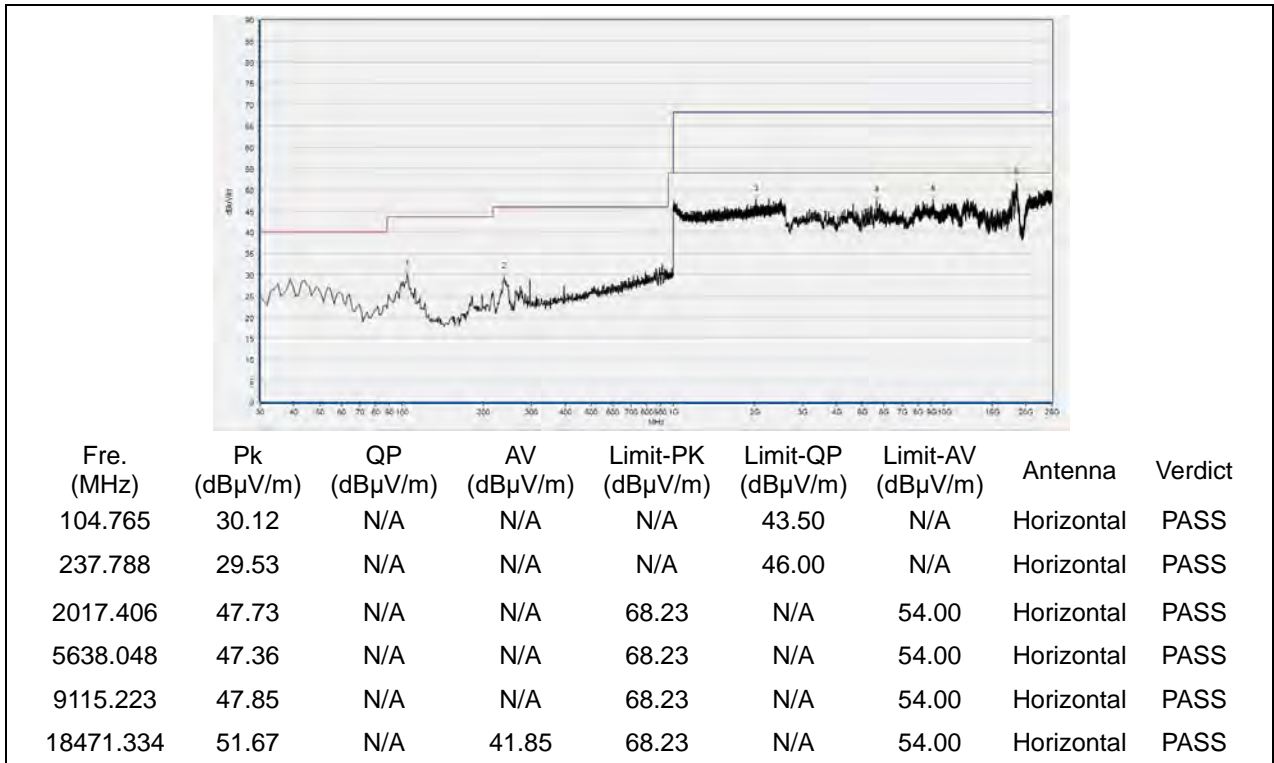
(Antenna Horizontal, 30MHz to 25GHz)



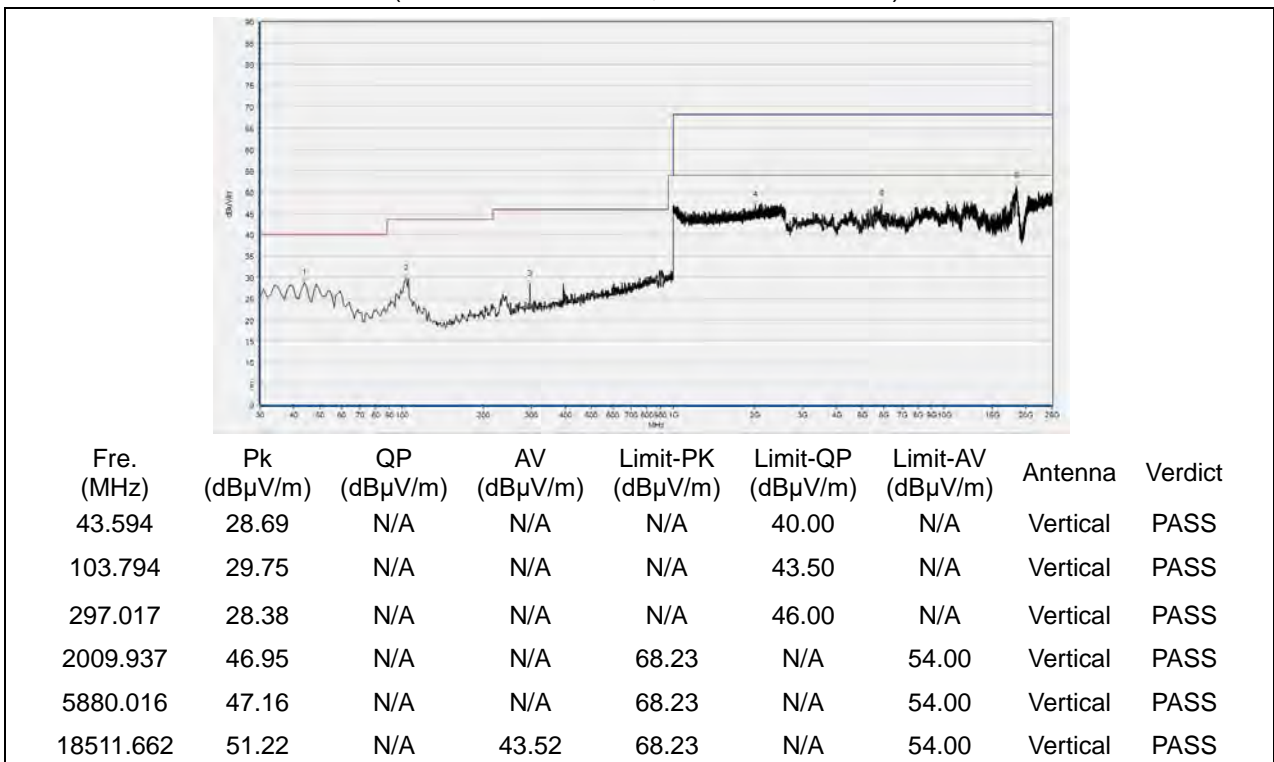
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	28.79	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
102.823	29.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	28.55	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2203.601	48.08	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12220.484	47.80	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18493.739	50.28	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 52

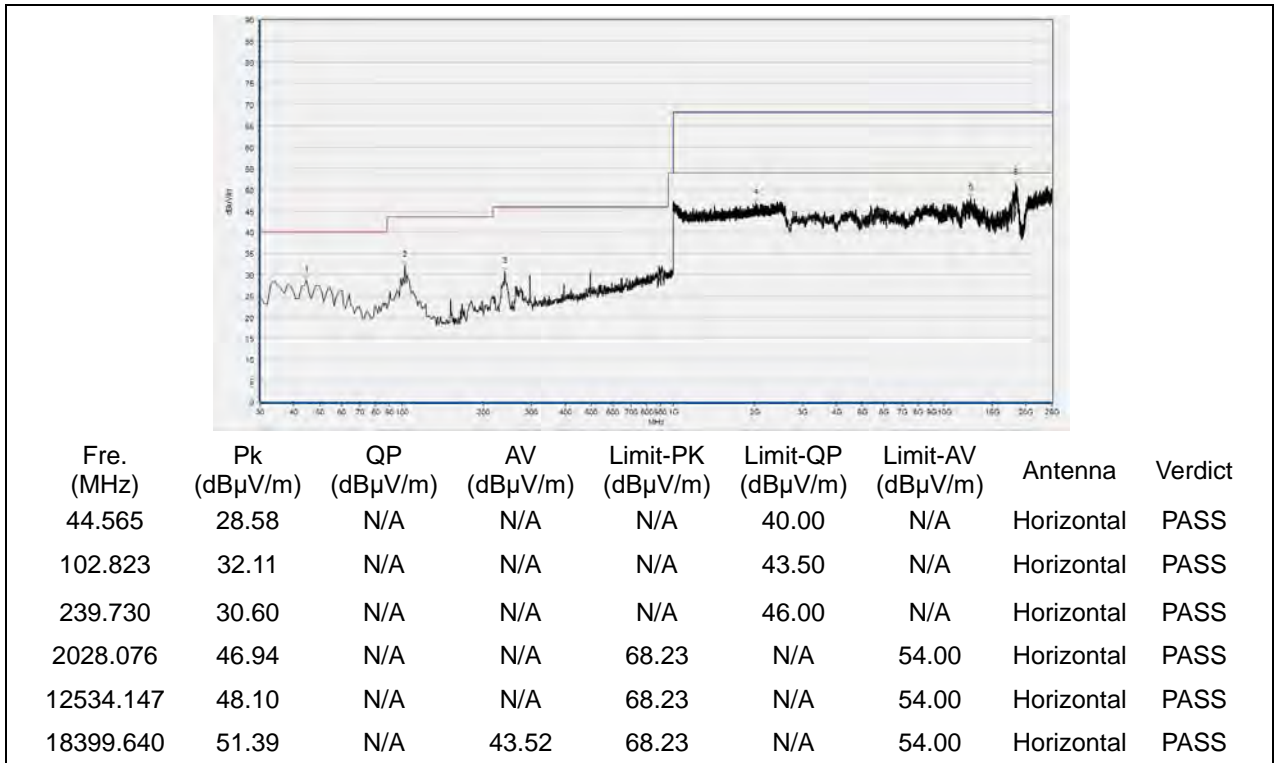


(Antenna Horizontal, 30MHz to 25GHz)

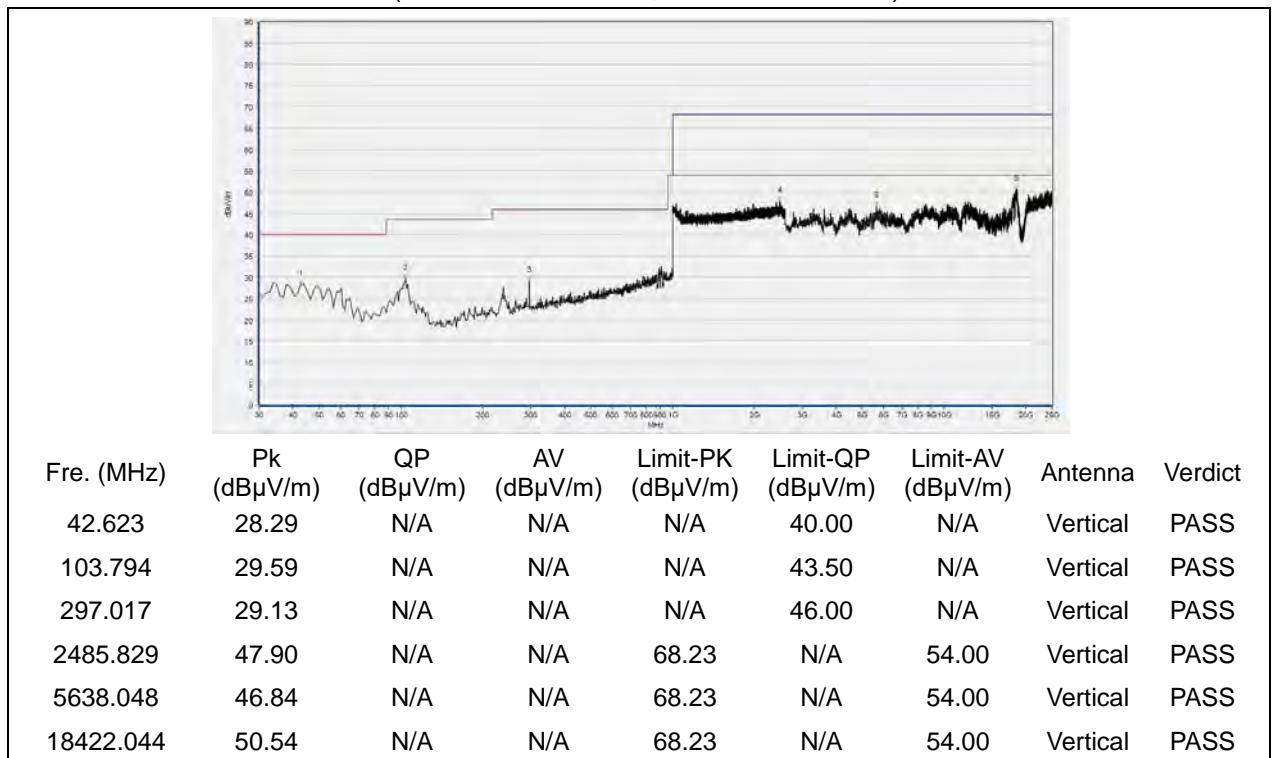


(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 60

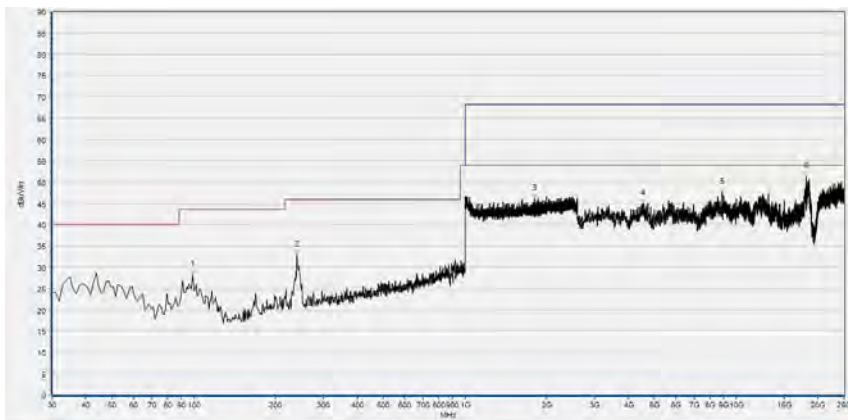


(Antenna Horizontal, 30MHz to 25GHz)



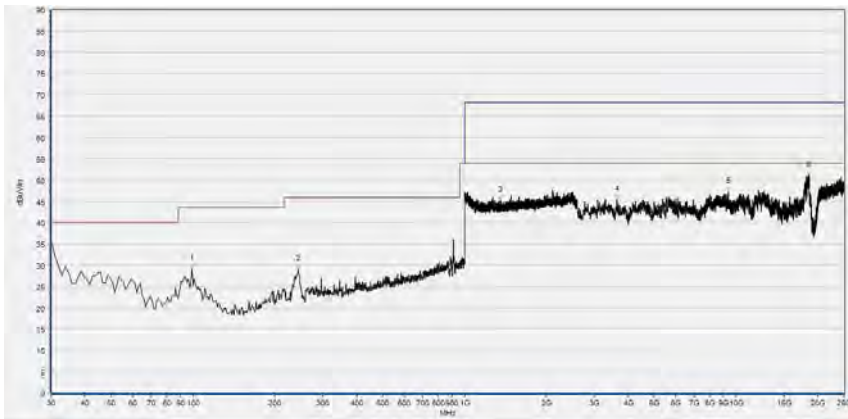
(Antenna Vertical, 30MHz to 25GHz)

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
98.939	28.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.730	32.93	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1799.200	46.11	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
4517.824	44.96	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8891.178	47.56	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18171.114	51.25	N/A	48.62	68.23	N/A	54.00	Horizontal	PASS

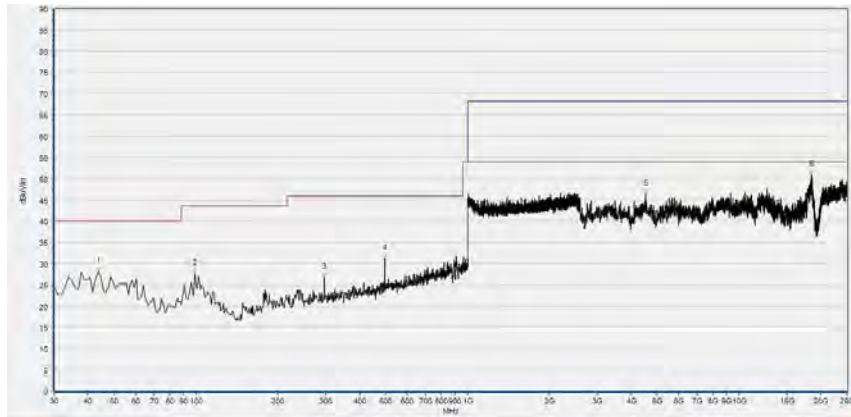
(Antenna Horizontal, 30MHz to 25GHz)



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
98.939	29.17	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
244.585	29.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1355.852	45.17	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
3644.049	45.46	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
9348.230	47.20	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18480.296	50.68	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

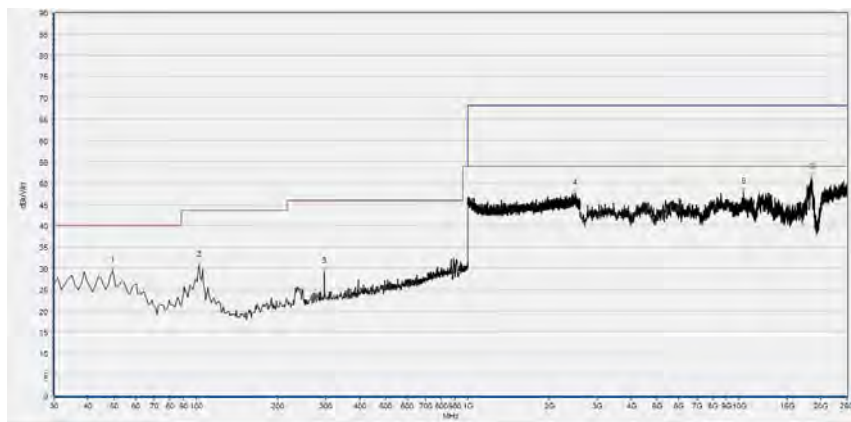
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	28.14	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	27.73	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	26.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
495.095	31.21	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
4517.824	46.41	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18417.564	50.90	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

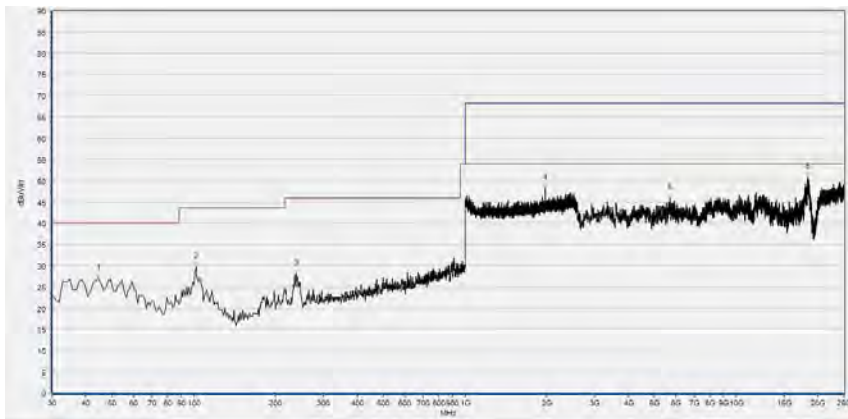
(Antenna Horizontal, 30MHz to 25GHz)



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	29.52	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
102.823	30.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	29.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2492.764	47.52	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
10401.240	48.01	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18498.220	51.27	N/A	42.59	68.23	N/A	54.00	Vertical	PASS

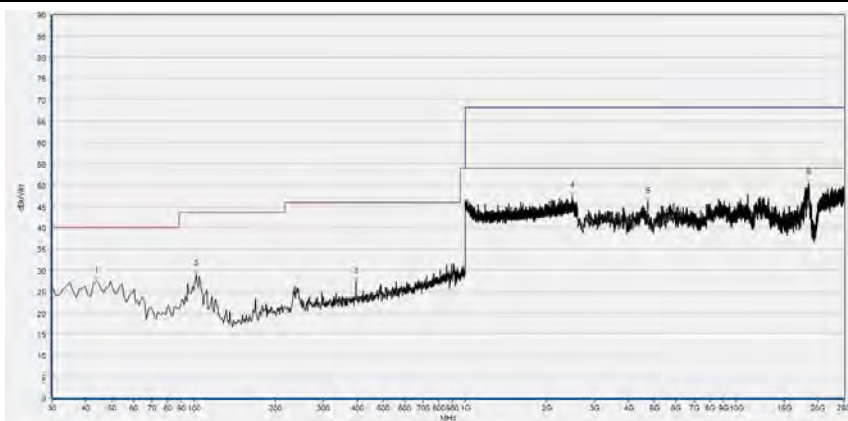
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	27.04	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
101.852	29.73	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	28.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	48.19	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5700.780	45.92	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18408.602	50.86	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

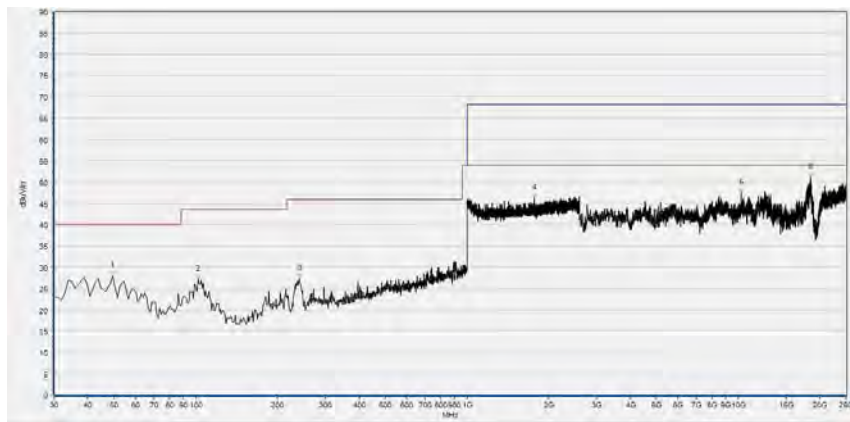
(Antenna Horizontal, 30MHz to 25GHz)



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	27.48	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
101.852	28.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
396.056	27.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2484.228	47.49	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4710.502	46.09	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18417.564	50.49	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

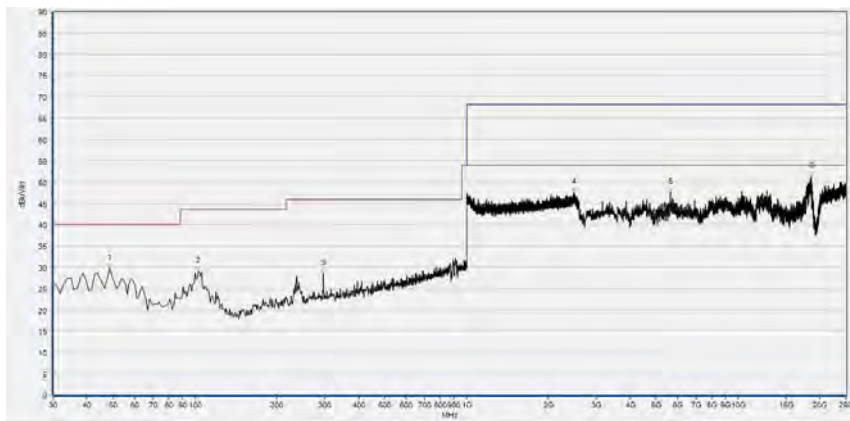
(Antenna Vertical, 30MHz to 25GHz)

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
49.419	28.01	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
101.852	27.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
240.701	27.39	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1766.122	46.27	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
10271.294	47.38	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18480.296	51.10	N/A	42.85	68.23	N/A	54.00	Horizontal	PASS

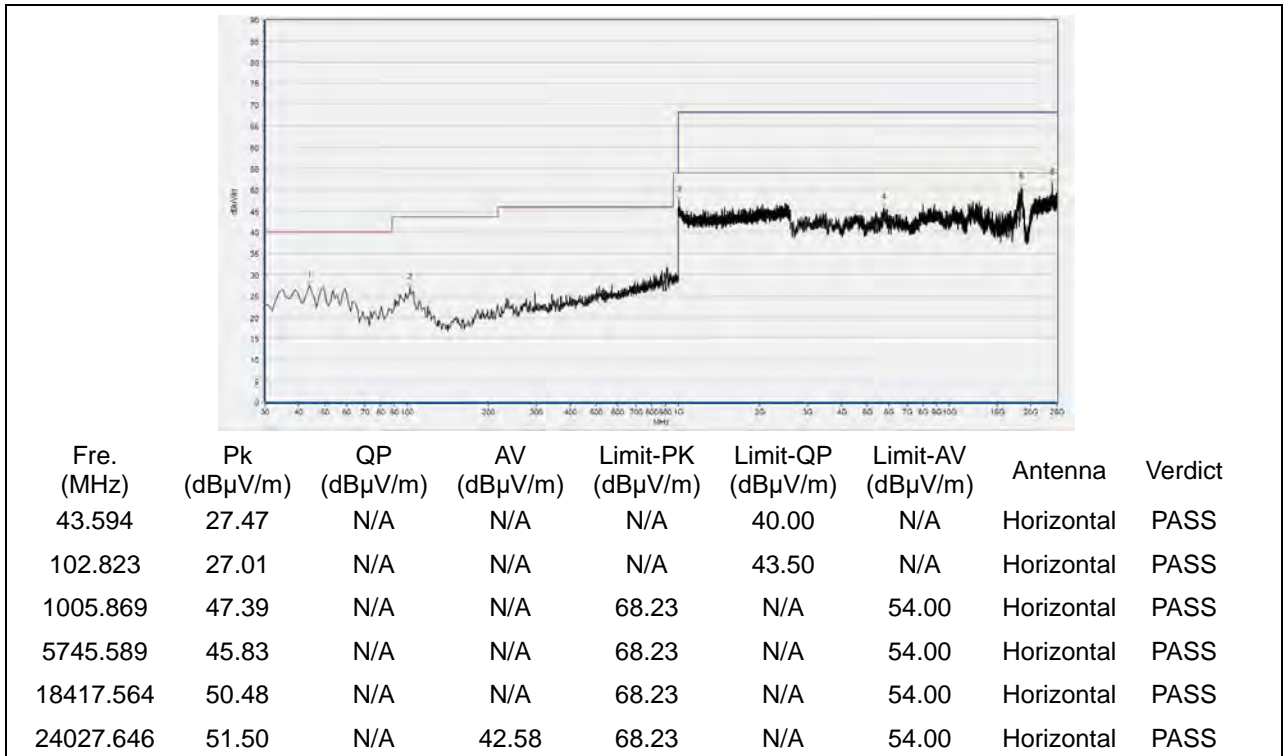
(Antenna Horizontal, 30MHz to 25GHz)



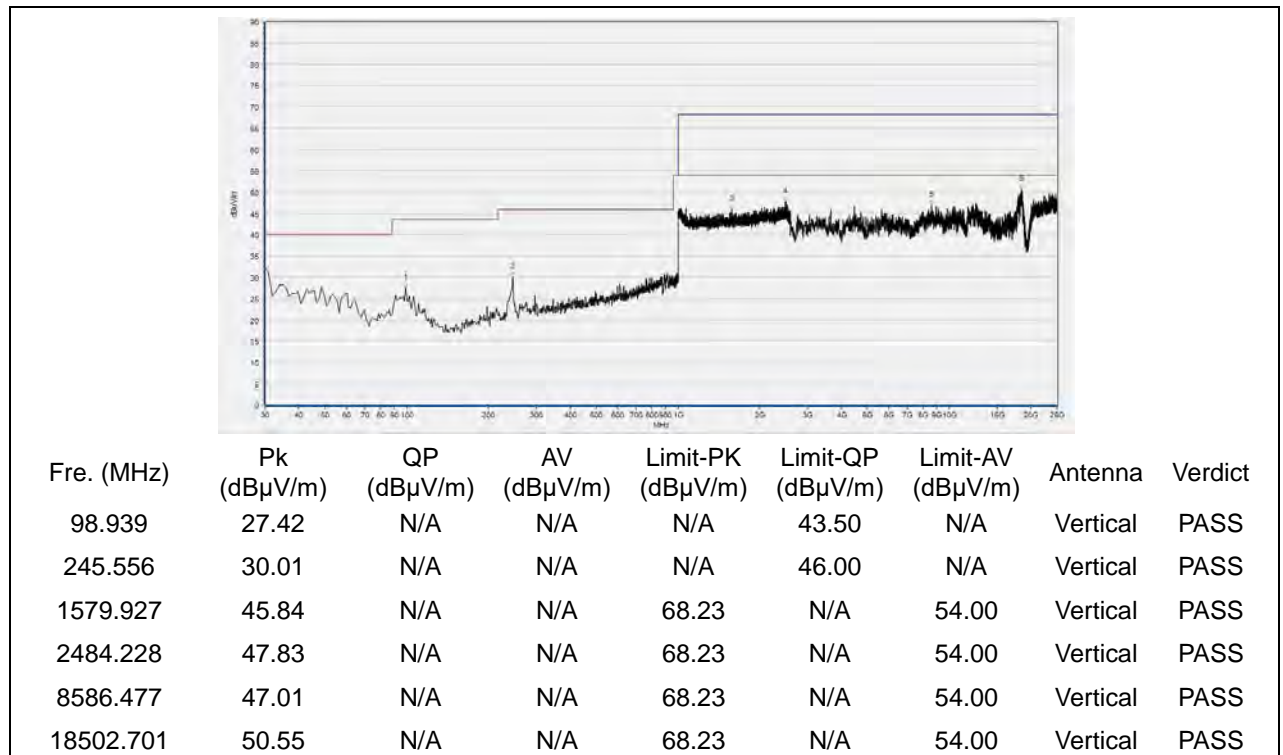
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.448	29.68	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
102.823	28.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	28.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2492.231	47.52	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5633.567	47.58	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18592.318	50.35	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 149

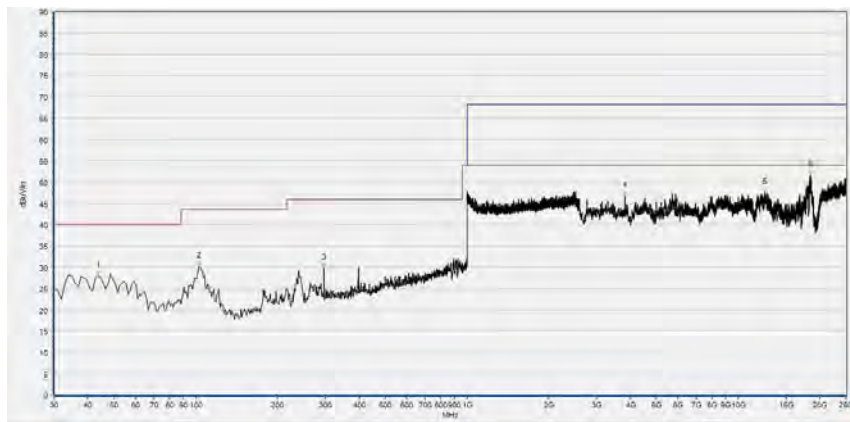


(Antenna Horizontal, 30MHz to 25GHz)



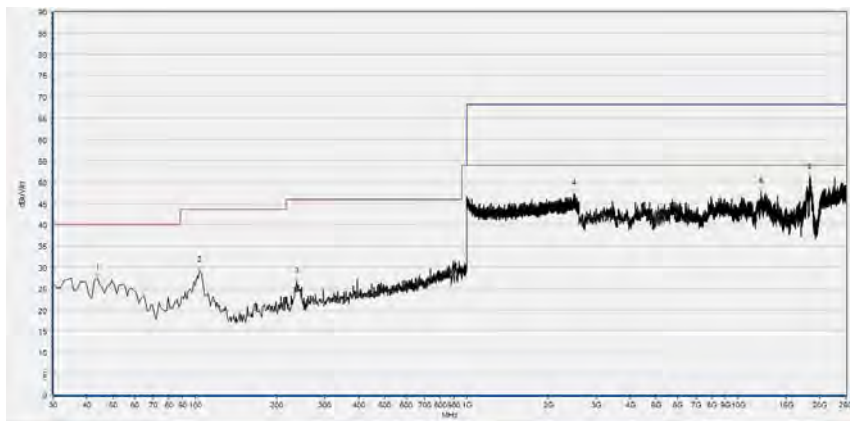
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	27.96	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
102.823	30.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	29.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
3827.766	46.80	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12538.628	47.56	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18417.564	51.58	N/A	43.51	68.23	N/A	54.00	Horizontal	PASS

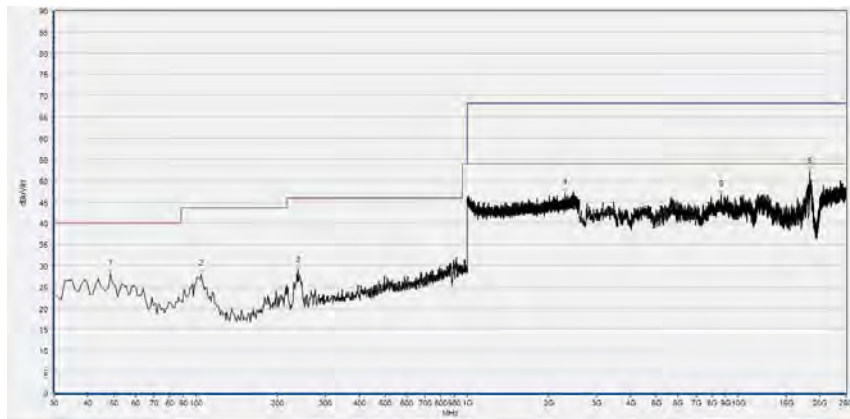
(Antenna Horizontal, 30MHz to 25GHz)



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	27.41	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
103.794	29.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.817	26.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2485.829	47.21	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12148.790	47.71	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18354.831	50.96	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

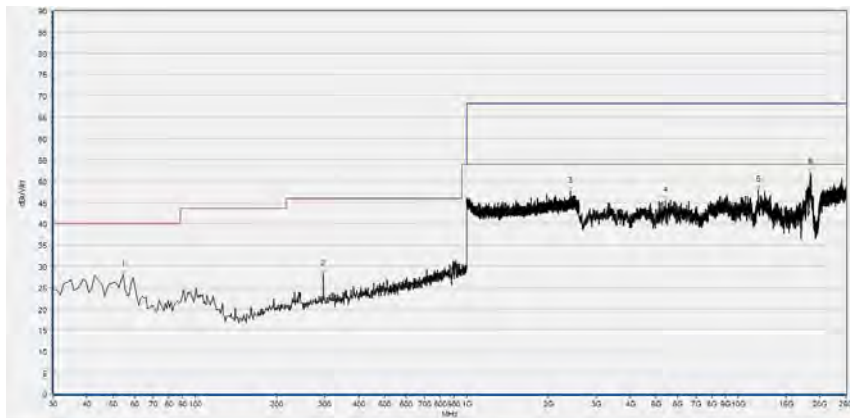
(Antenna Vertical, 30MHz to 25GHz)

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
48.448	28.16	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	27.96	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	28.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2303.368	47.02	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8635.767	46.72	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18399.640	52.06	N/A	42.46	68.23	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



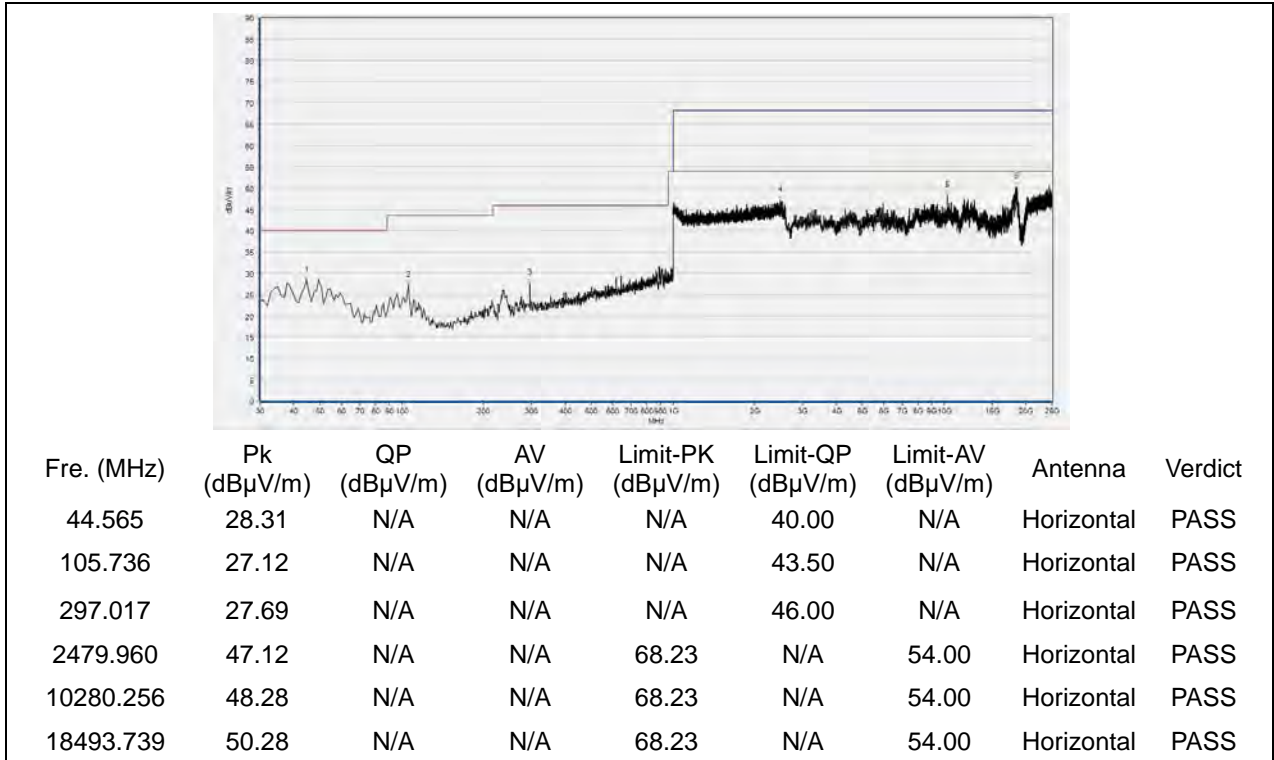
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	28.06	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
297.017	28.18	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2413.805	47.59	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5391.598	45.48	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
11853.051	47.88	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18431.006	51.88	N/A	42.67	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

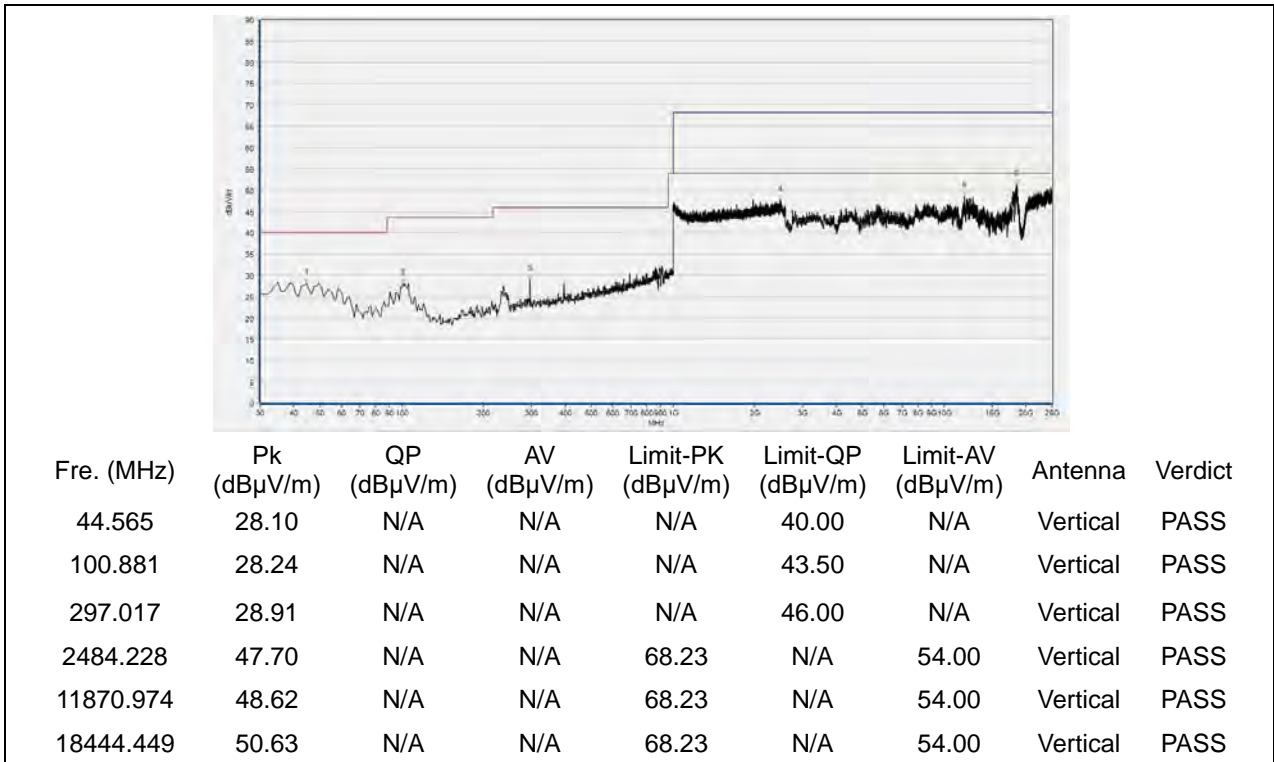


802.11n (HT20) Test mode

Plots for Channel = 36

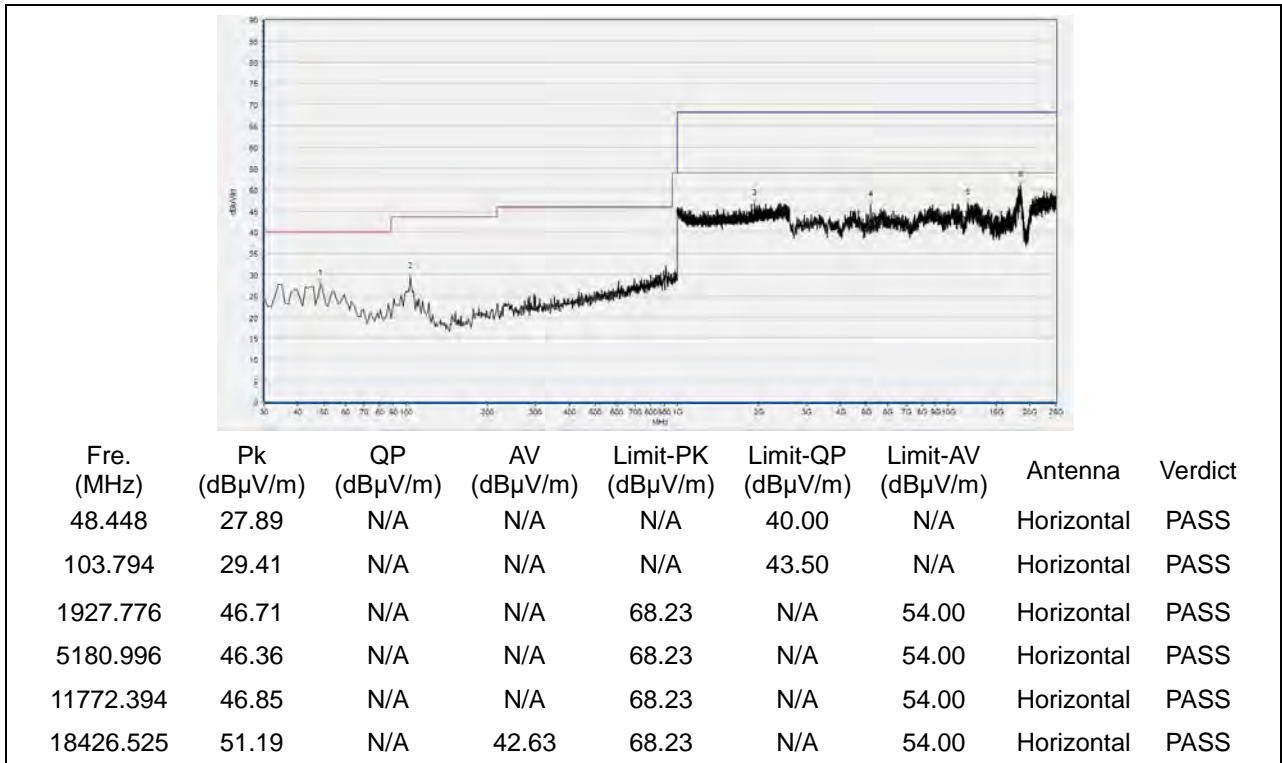


(Antenna Horizontal, 30MHz to 25GHz)

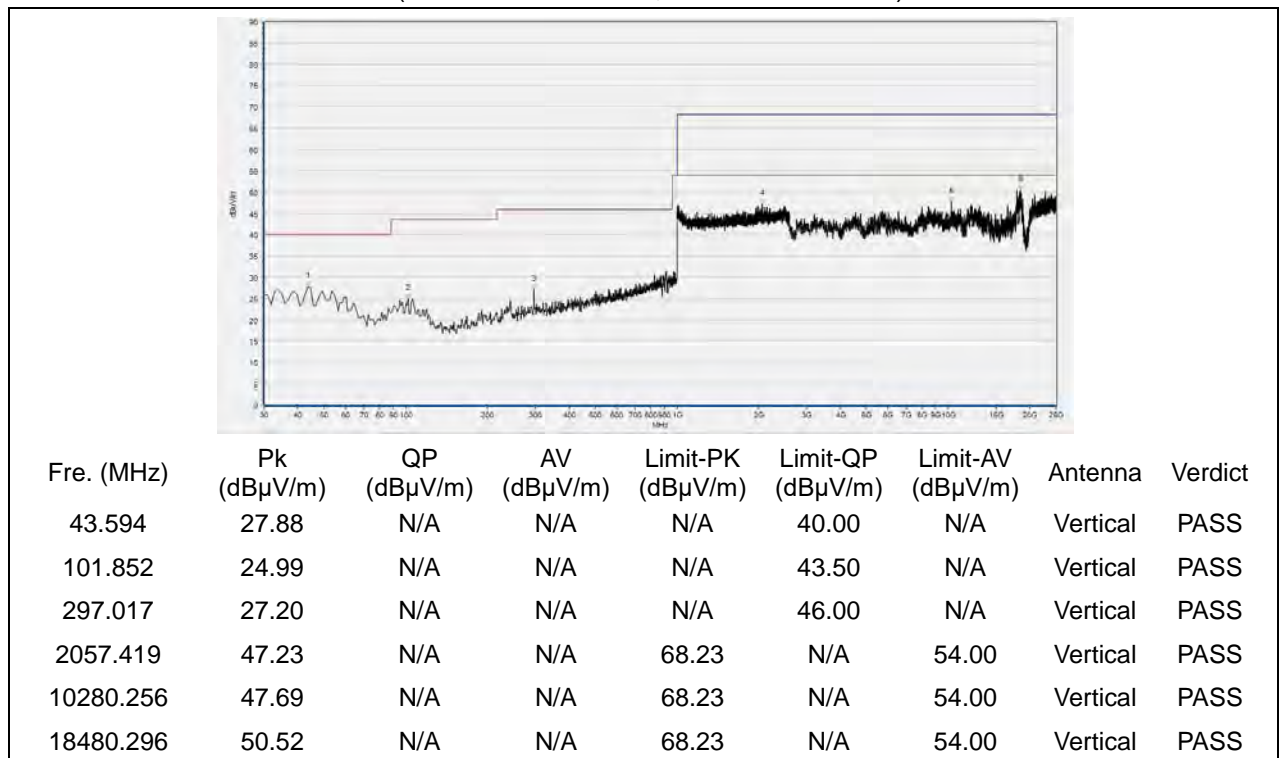


(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 44

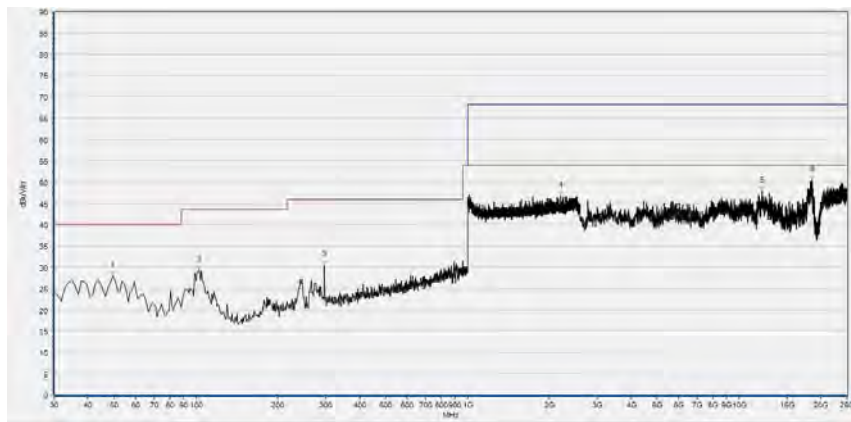


(Antenna Horizontal, 30MHz to 25GHz)



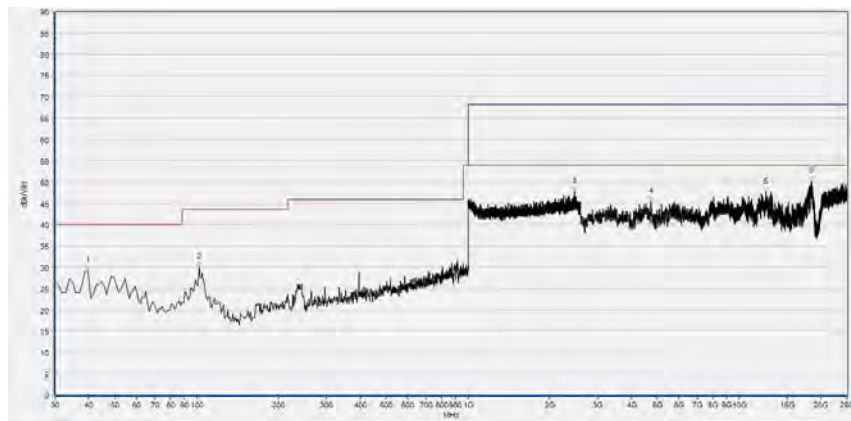
(Antenna Vertical, 30MHz to 25GHz)

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
49.419	28.05	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
102.823	29.29	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	30.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2205.202	46.74	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12126.385	47.98	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18578.876	50.49	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

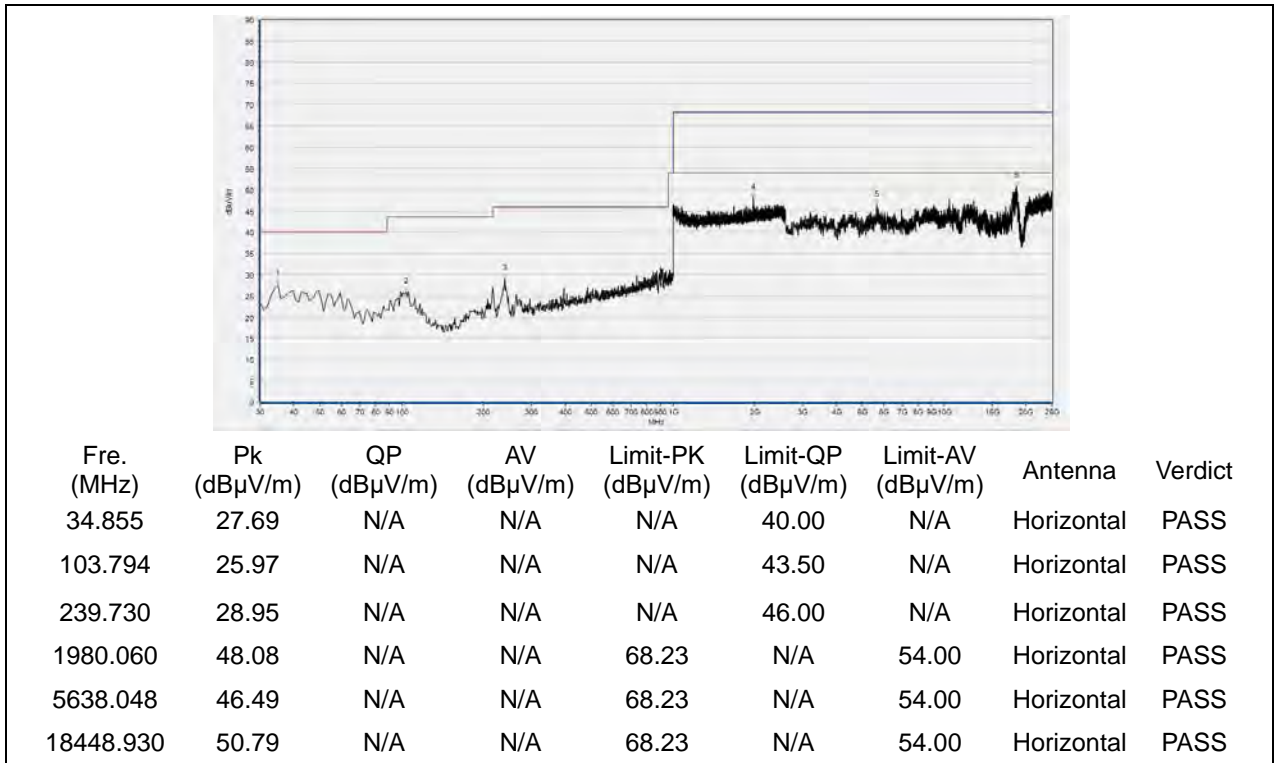
(Antenna Horizontal, 30MHz to 25GHz)



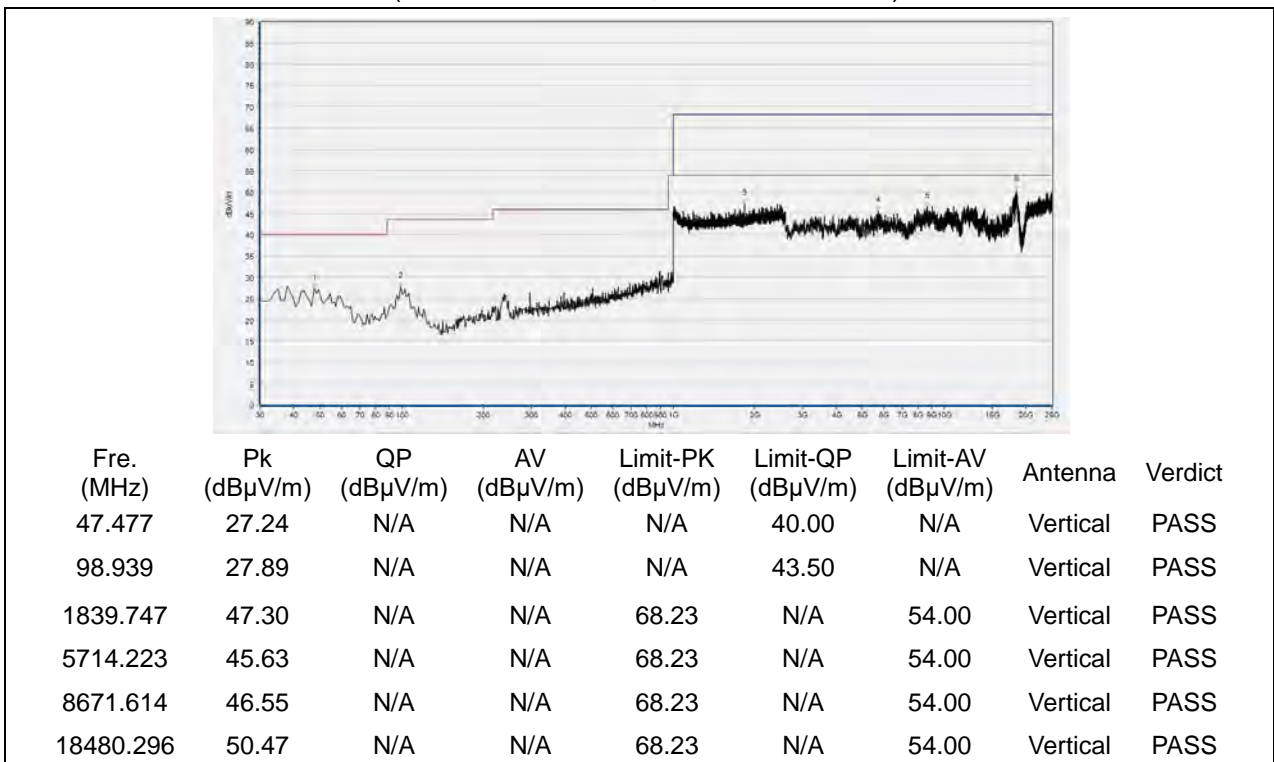
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
39.710	29.11	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
101.852	30.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2473.558	47.74	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4723.945	45.43	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12498.300	47.58	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18507.181	50.30	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 52

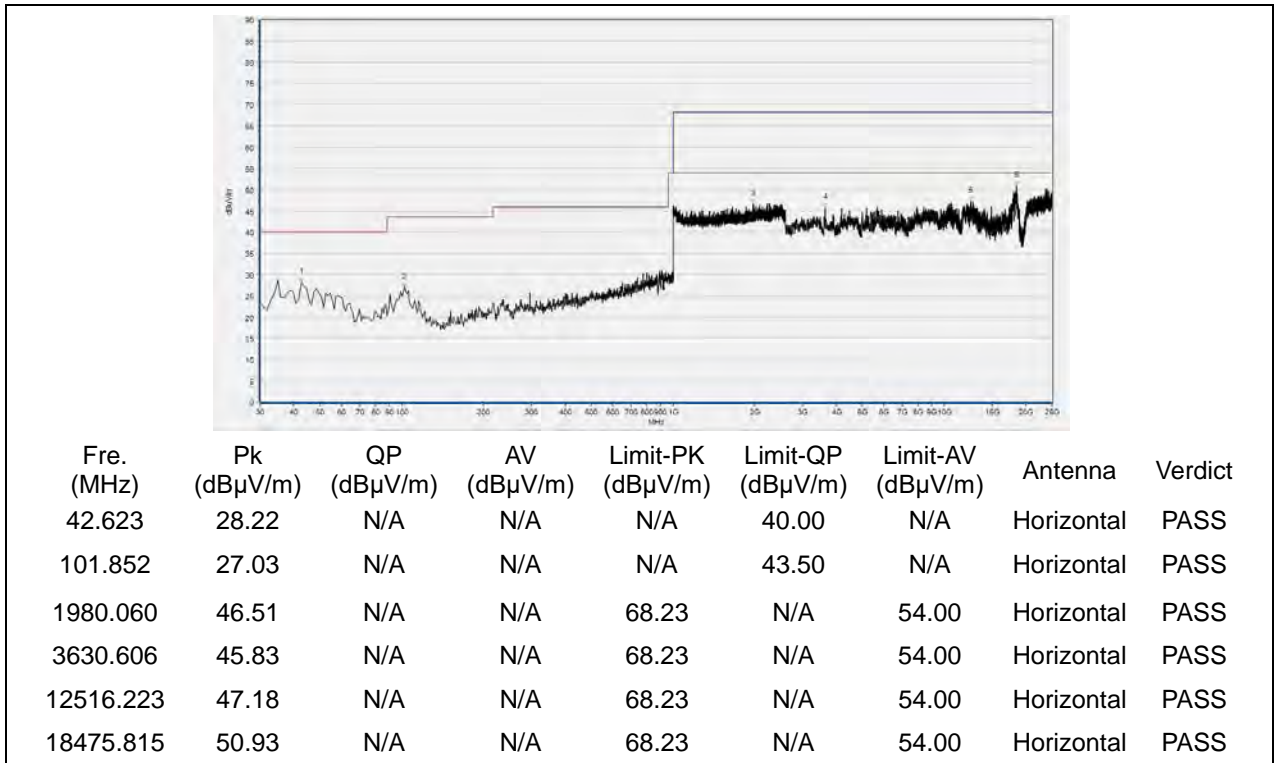


(Antenna Horizontal, 30MHz to 25GHz)

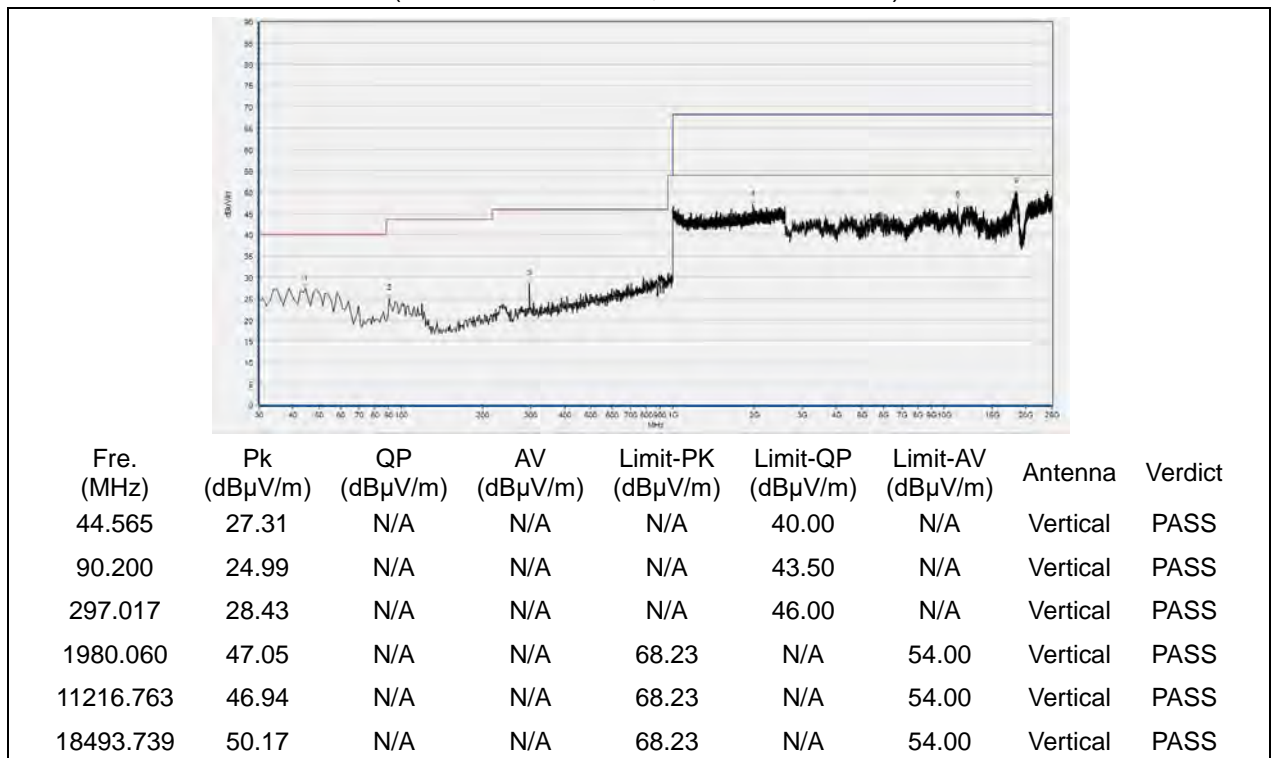


(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 60

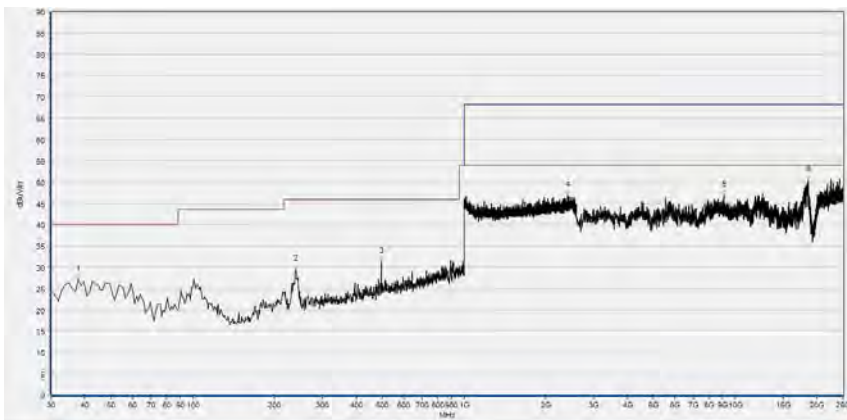


(Antenna Horizontal, 30MHz to 25GHz)



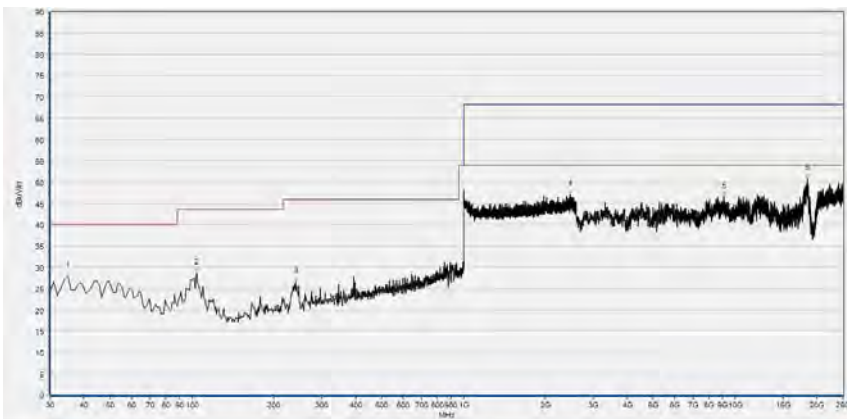
(Antenna Vertical, 30MHz to 25GHz)

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
37.768	27.08	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
239.730	29.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
495.095	31.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2411.137	46.86	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
9061.452	46.97	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18551.990	50.47	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

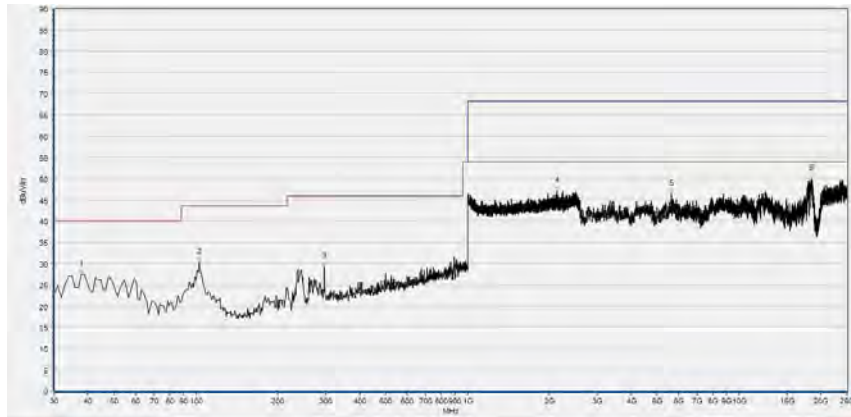
(Antenna Horizontal, 30MHz to 25GHz)



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	27.75	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
103.794	28.68	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
240.701	26.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2468.223	47.15	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
9074.895	46.53	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18502.701	50.76	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

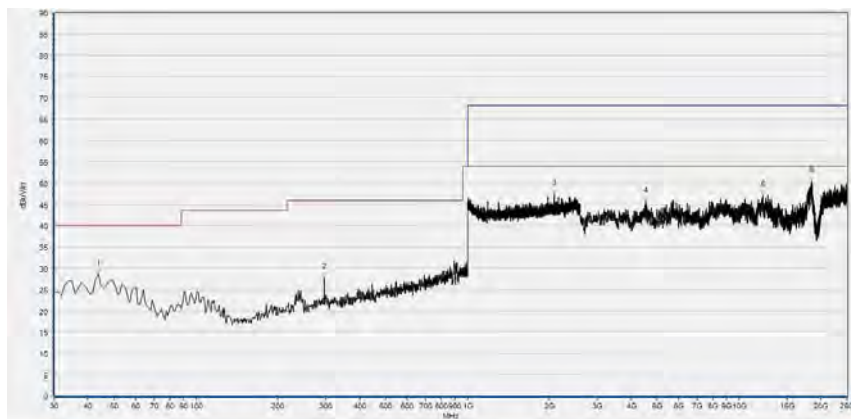
(Antenna Vertical, 30MHz to 25GHz)

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
37.768	27.50	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
102.823	30.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	29.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2133.178	47.08	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5620.124	46.47	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18489.258	50.01	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

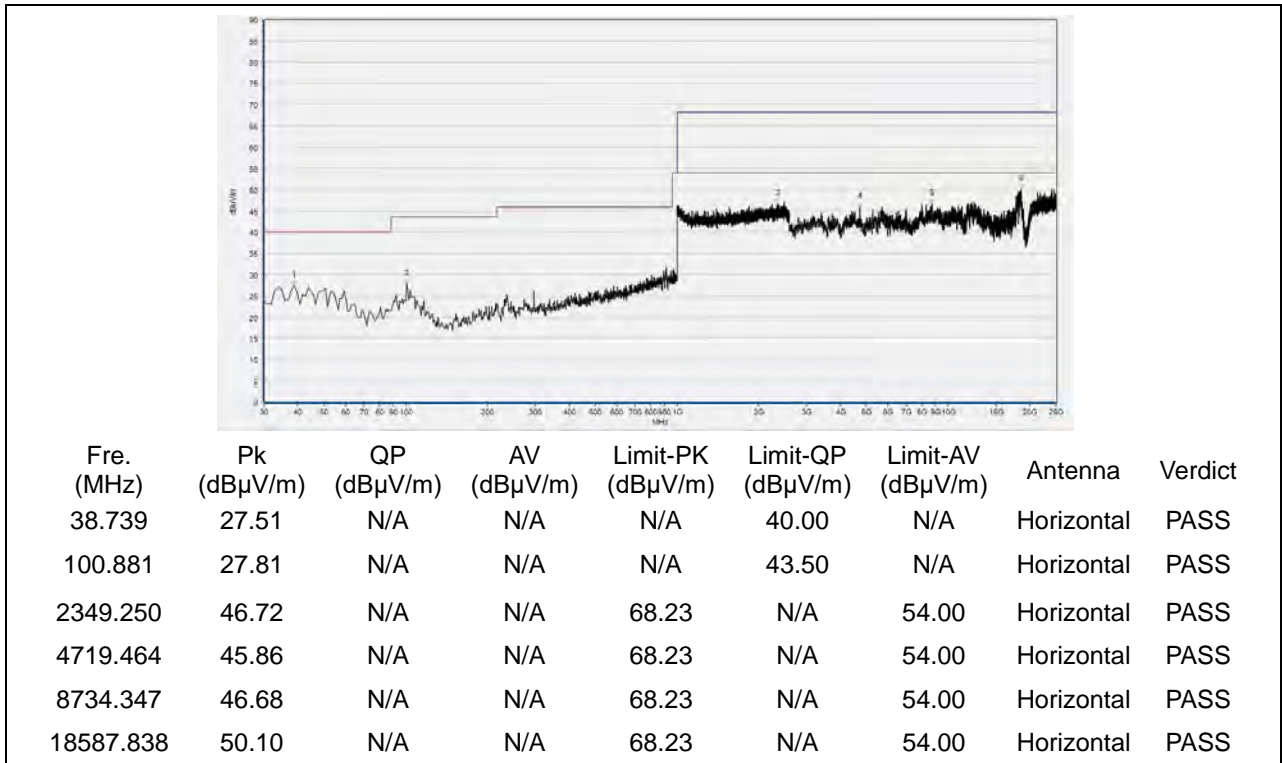
(Antenna Horizontal, 30MHz to 25GHz)



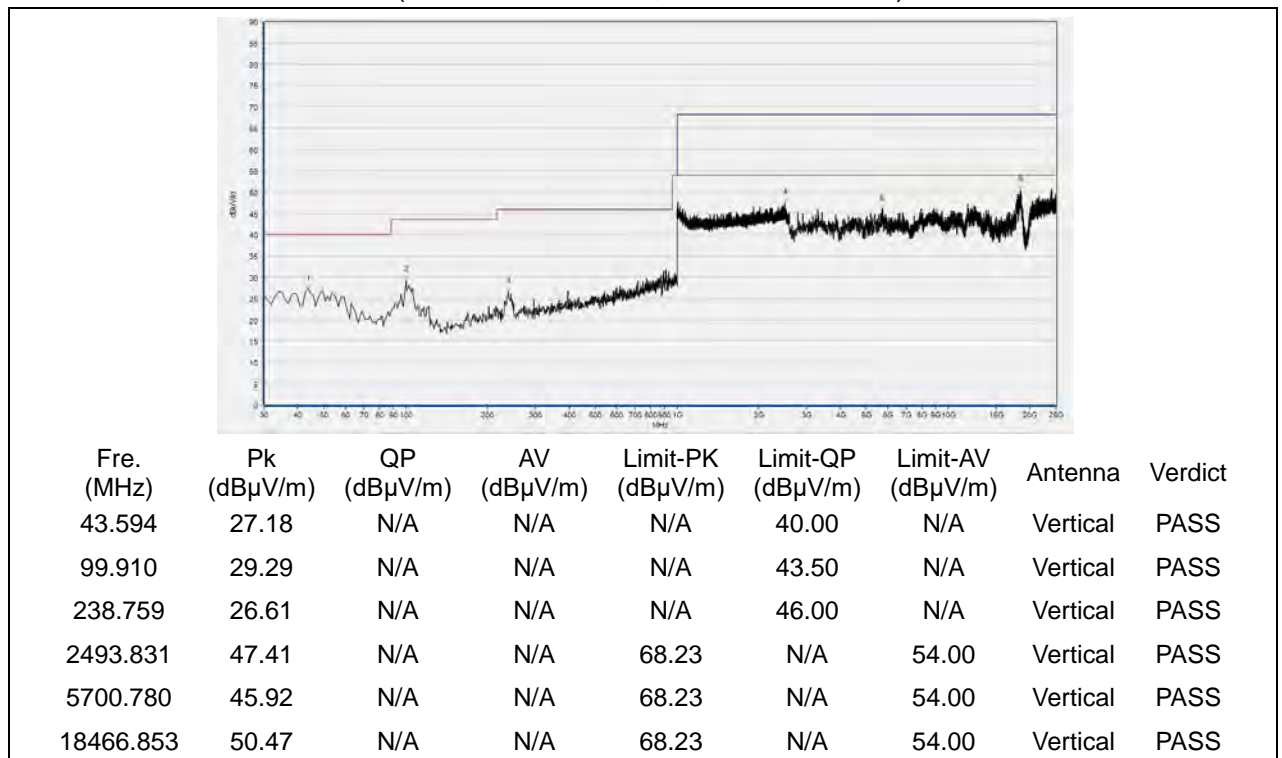
Fre. (MHz)	Pk (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
43.594	28.59	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
297.017	27.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2084.628	47.40	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4531.266	45.82	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12238.408	47.09	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18462.372	50.41	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 120

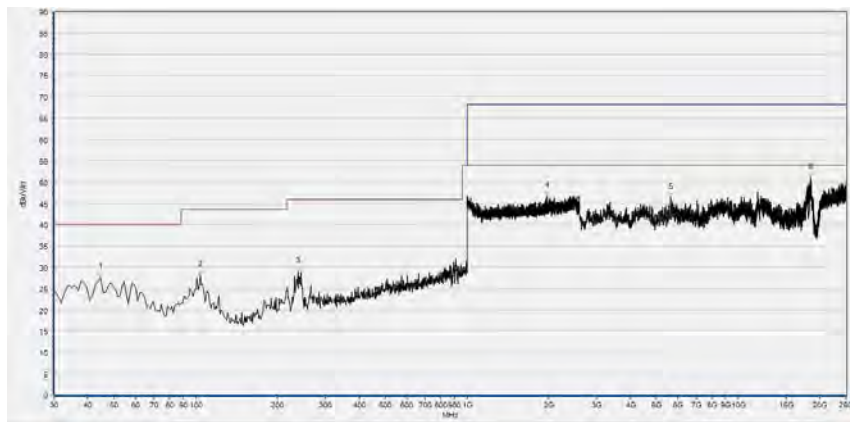


(Antenna Horizontal, 30MHz to 25GHz)



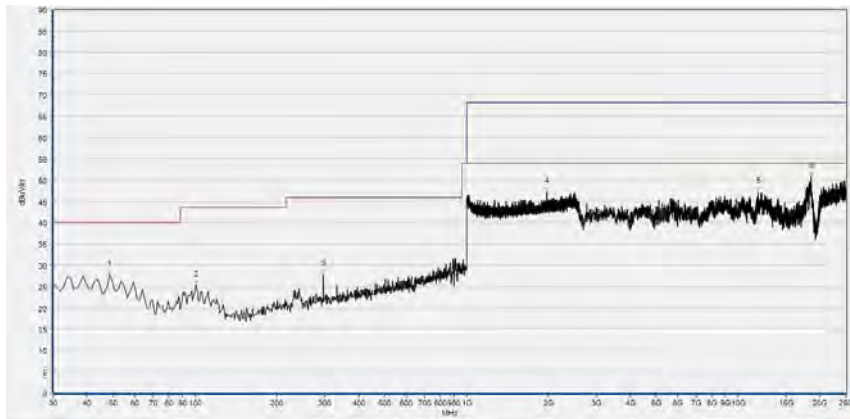
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	27.60	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	28.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	29.07	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	46.74	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5638.048	46.40	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18457.892	51.13	N/A	43.55	68.23	N/A	54.00	Horizontal	PASS

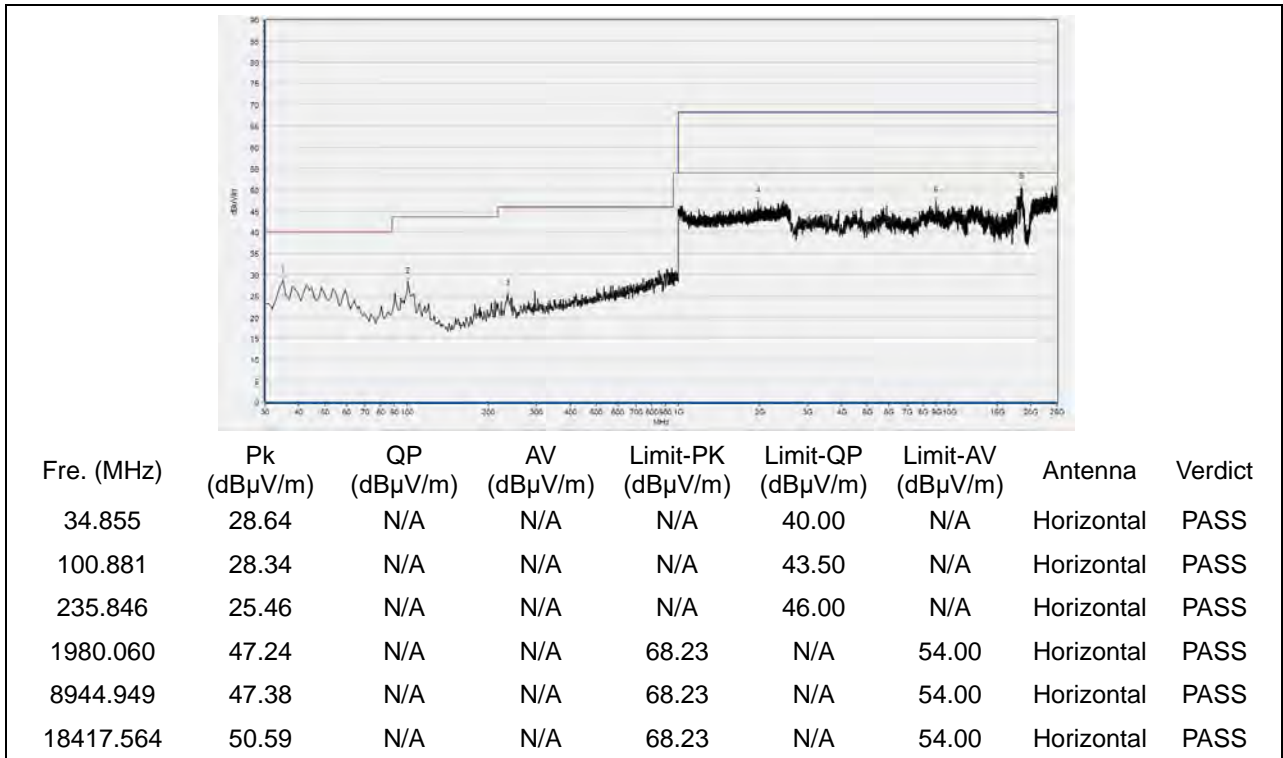
(Antenna Horizontal, 30MHz to 25GHz)



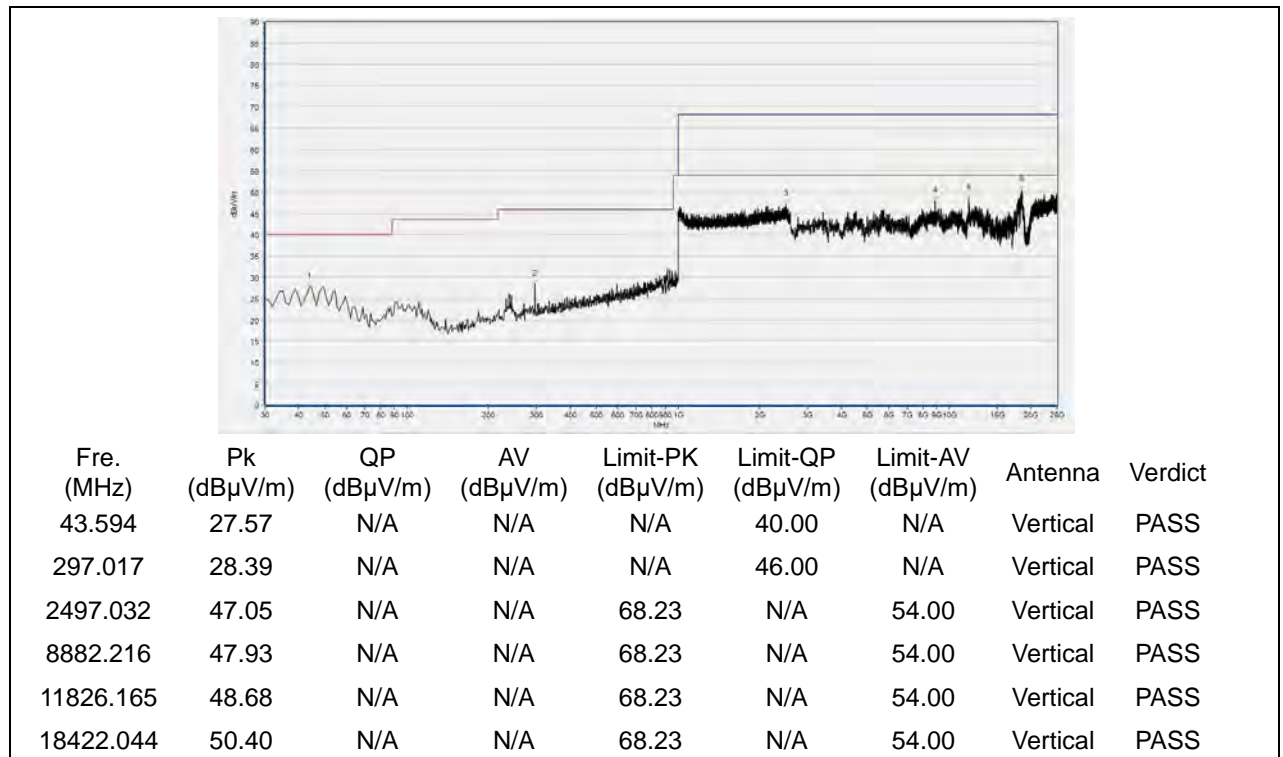
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.448	27.81	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	25.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	27.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1979.527	47.21	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
11844.089	47.32	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18529.586	50.72	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 149

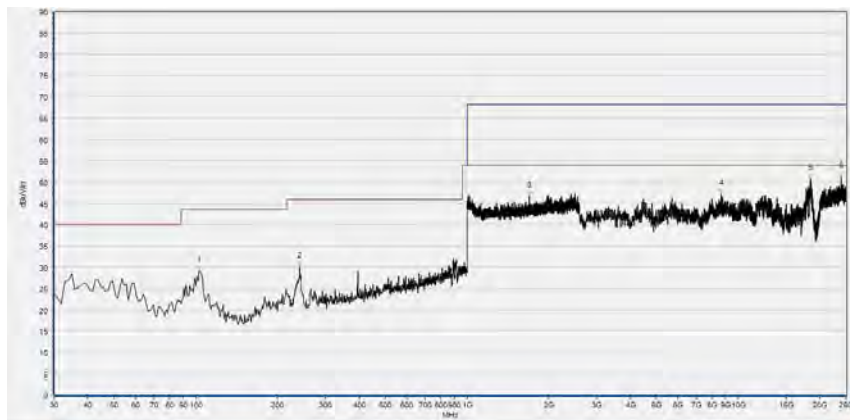


(Antenna Horizontal, 30MHz to 25GHz)



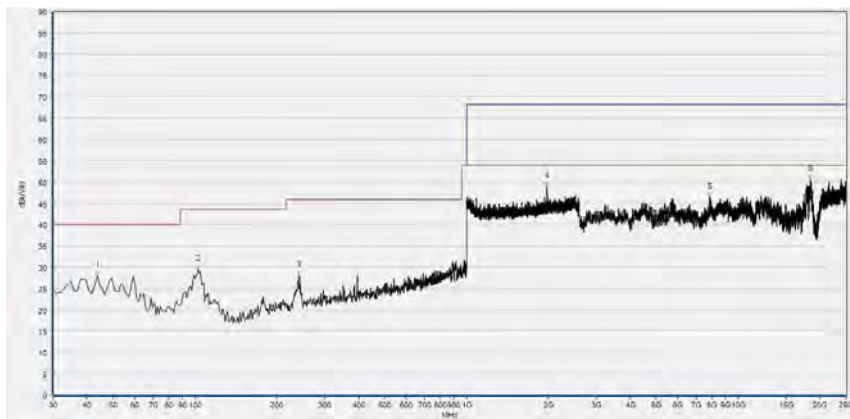
(Antenna Vertical, 30MHz to 25GHz)

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
102.823	29.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
241.672	30.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1694.098	46.72	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8658.172	47.35	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18422.044	50.78	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
23973.875	51.33	N/A	42.55	68.23	N/A	54.00	Horizontal	PASS

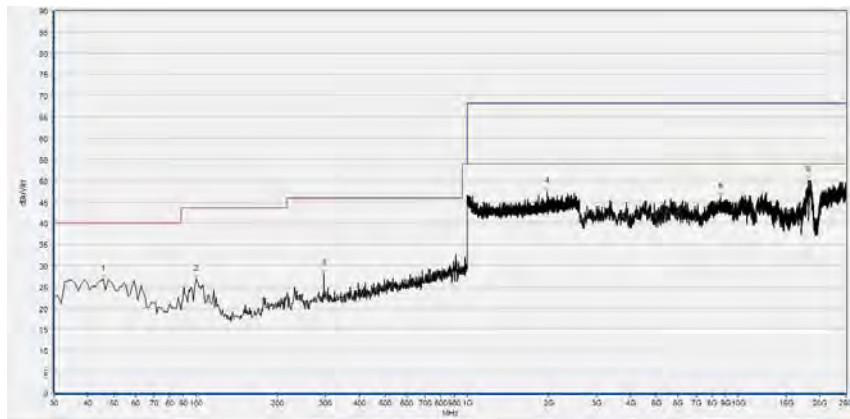
(Antenna Horizontal, 30MHz to 25GHz)



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	27.93	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
102.823	29.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
241.672	28.08	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
1980.060	48.87	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
7874.015	46.42	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18498.220	50.69	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

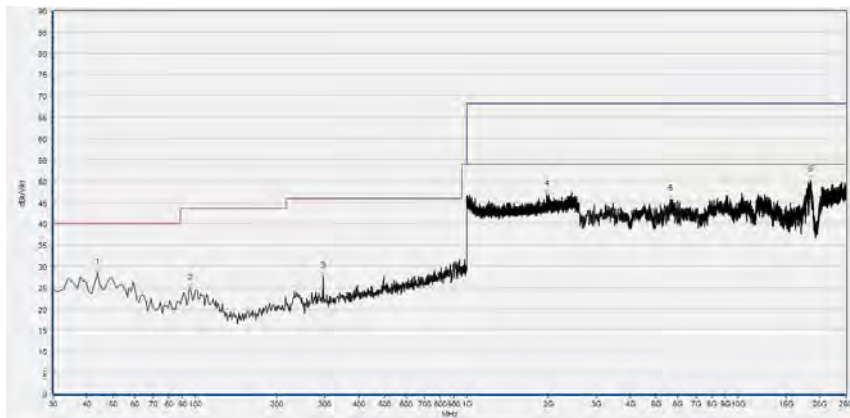
(Antenna Vertical, 30MHz to 25GHz)

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
45.536	26.81	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	26.81	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	28.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	47.41	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8608.882	46.24	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18162.152	50.18	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



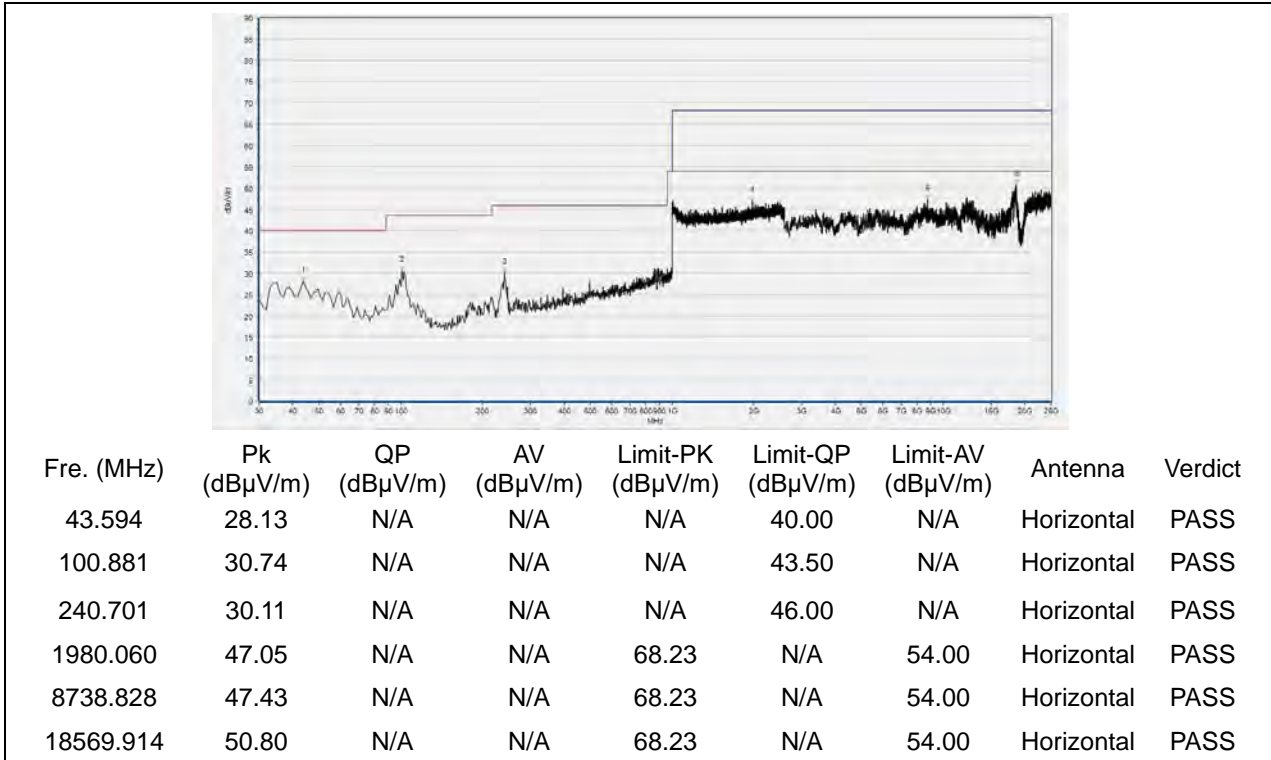
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	28.48	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
96.026	24.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	27.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1979.527	46.94	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5642.529	45.77	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18431.006	50.30	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

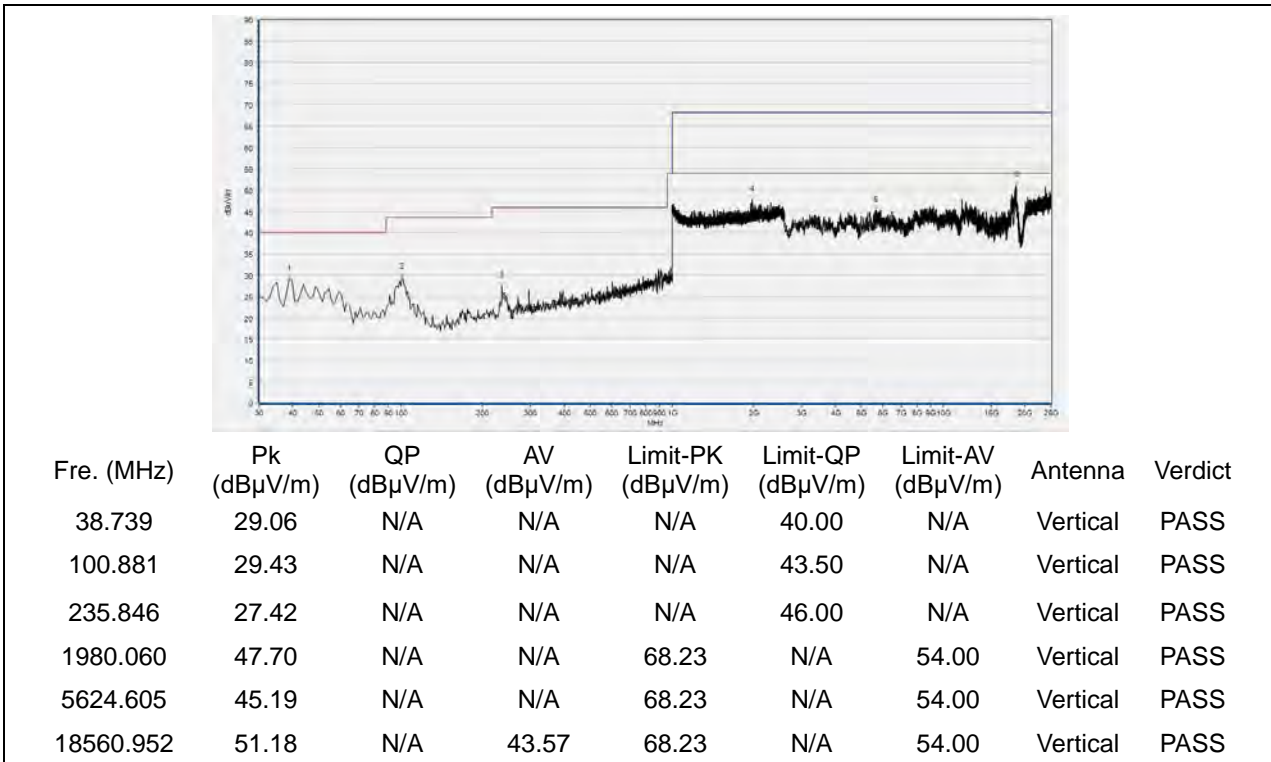


802.11ac (VHT20) Test mode

Plots for Channel = 36

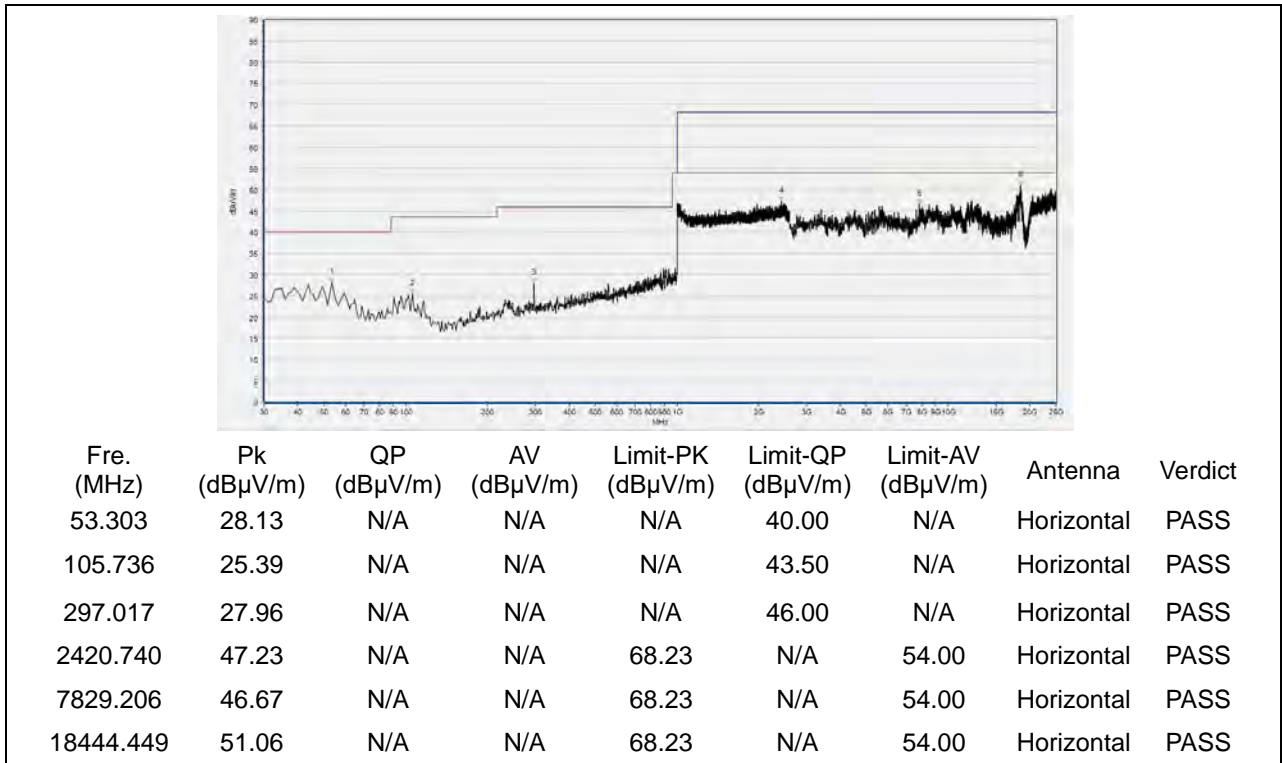


(Antenna Horizontal, 30MHz to 25GHz)

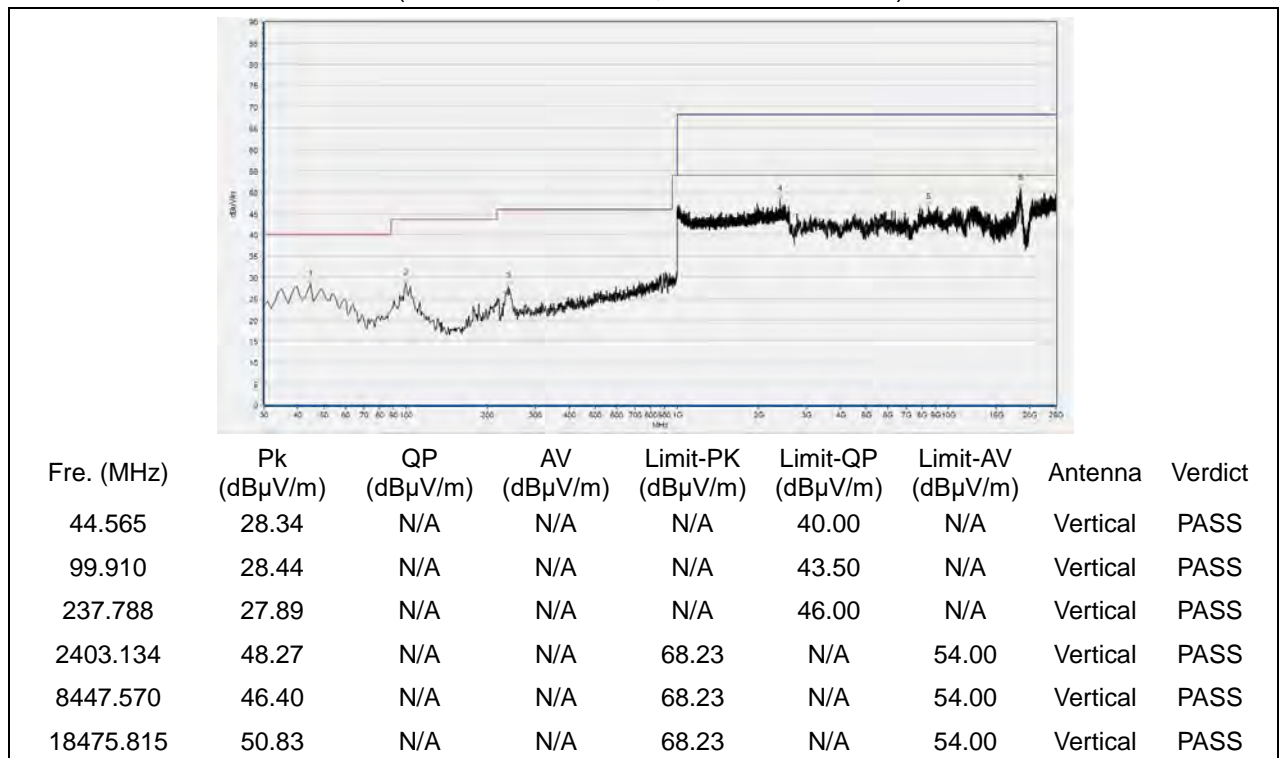


(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 44

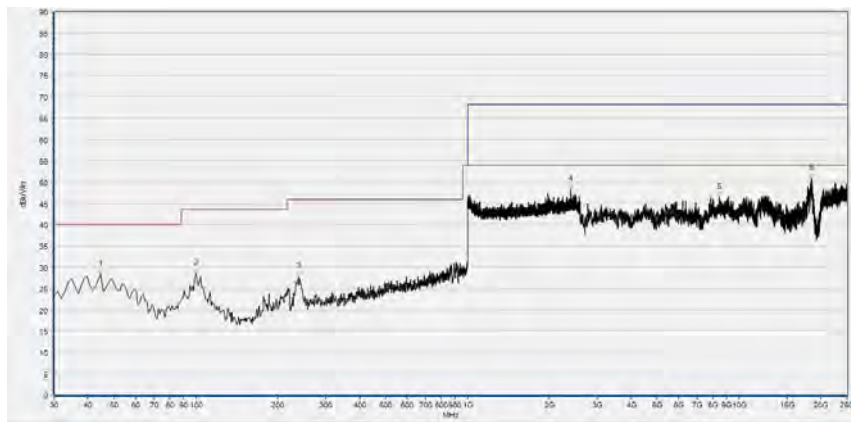


(Antenna Horizontal, 30MHz to 25GHz)



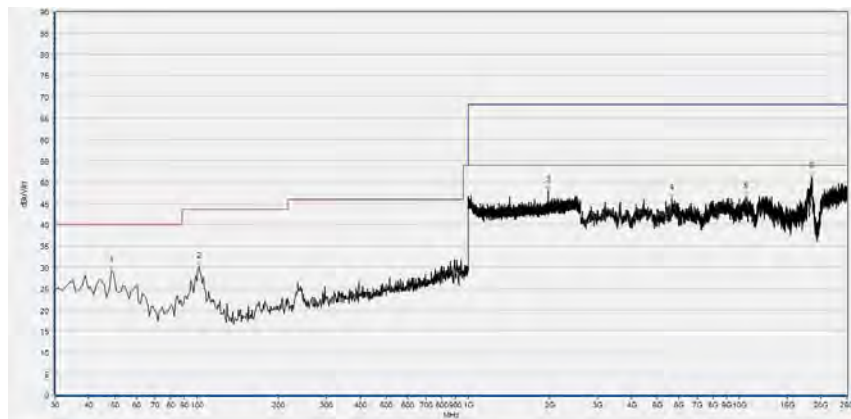
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	28.34	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	28.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	27.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2403.134	48.27	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8447.570	46.40	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18475.815	50.83	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

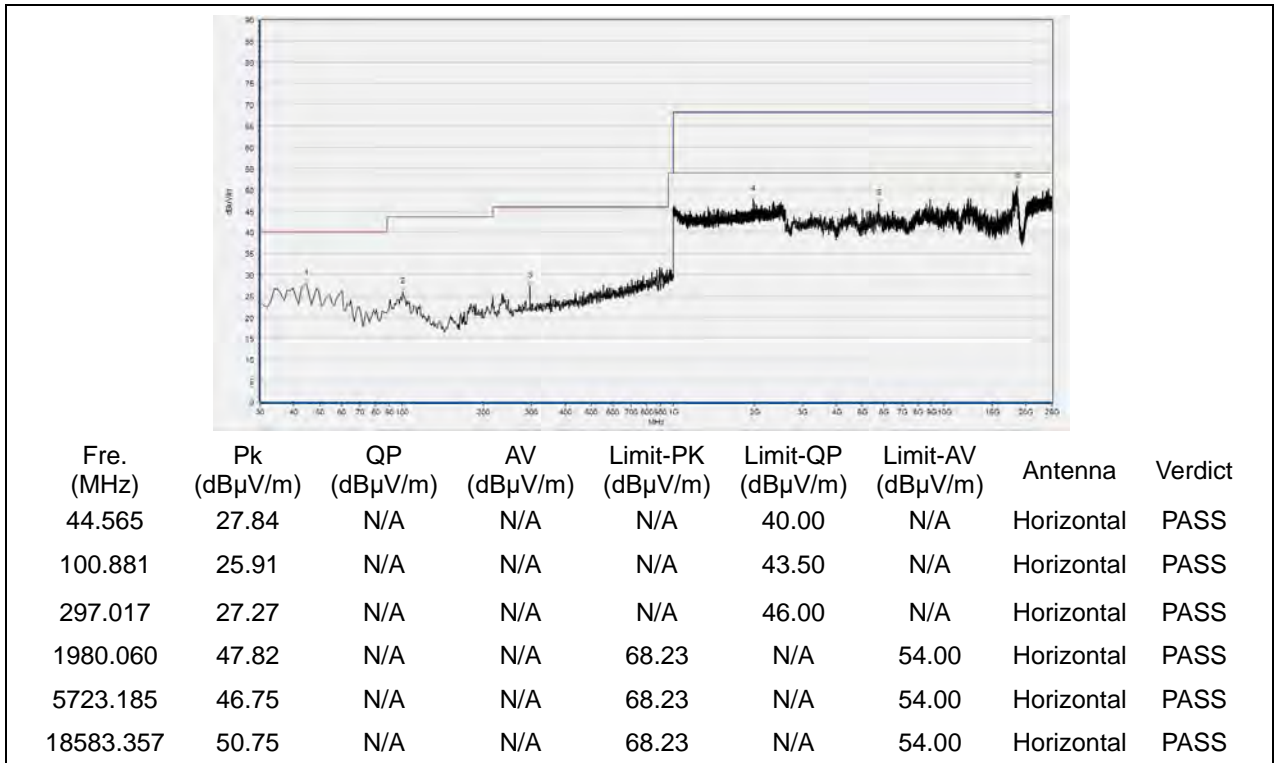
(Antenna Horizontal, 30MHz to 25GHz)



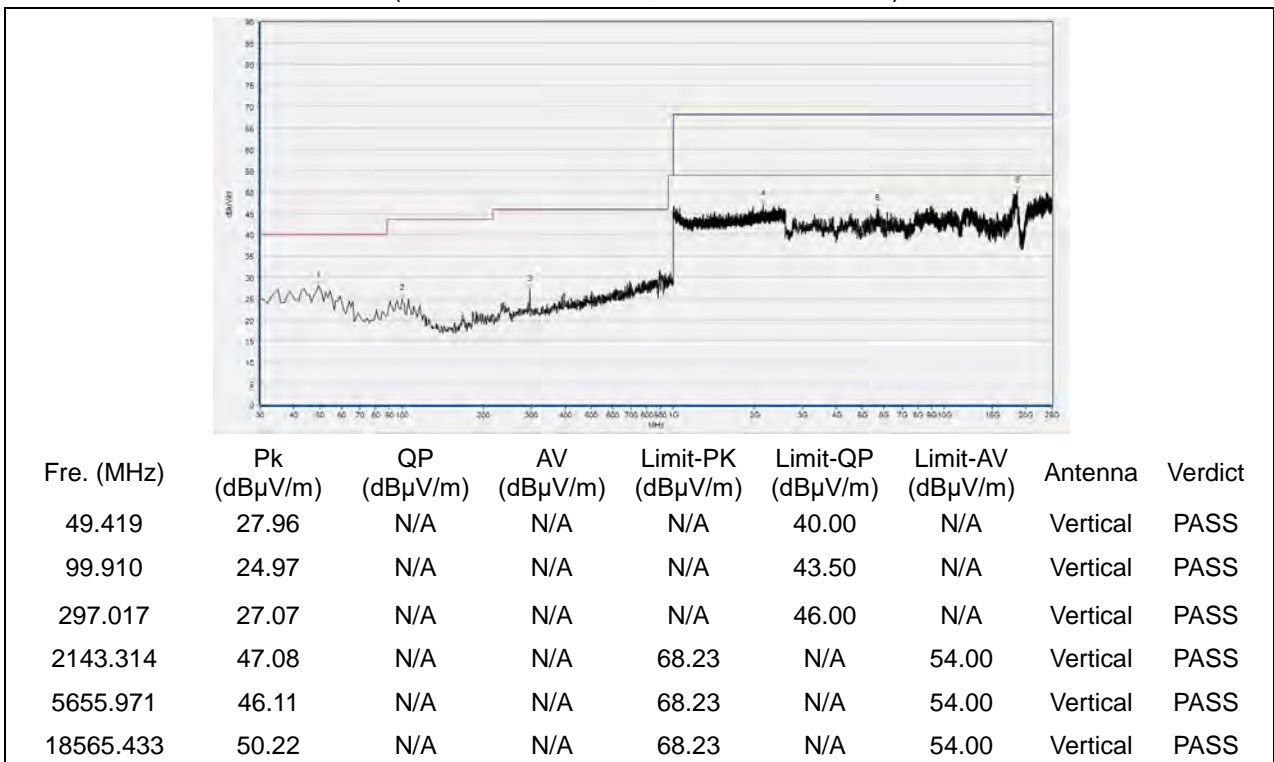
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.448	29.19	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
101.852	30.11	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1980.060	48.06	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5647.009	46.27	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
10553.591	46.62	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18426.525	51.28	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 52

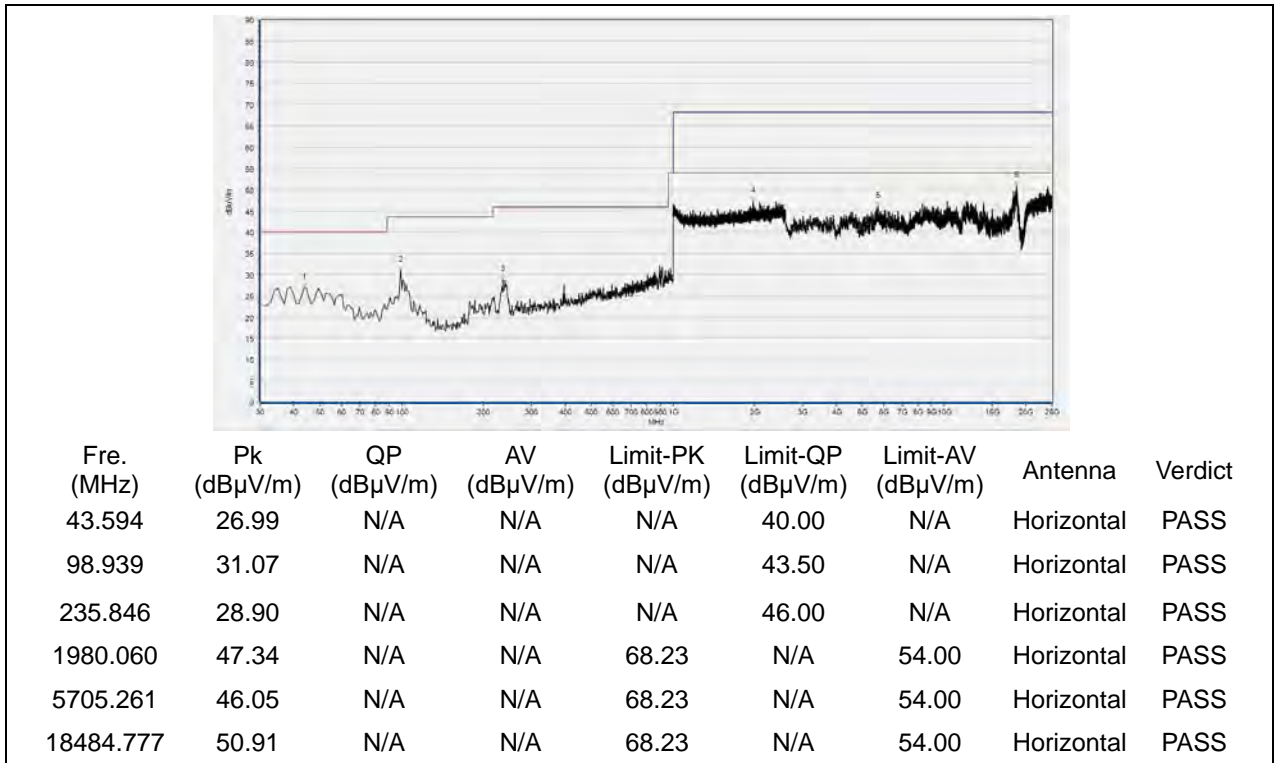


(Antenna Horizontal, 30MHz to 25GHz)

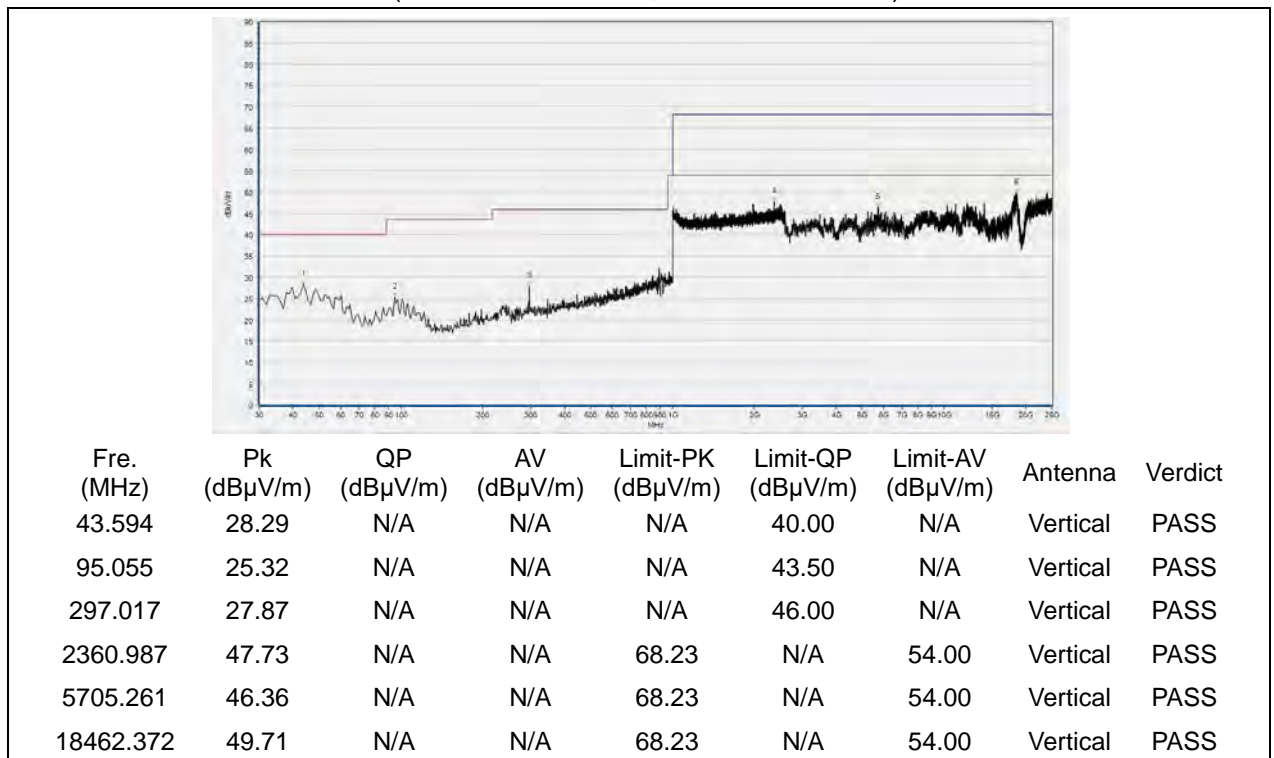


(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 60

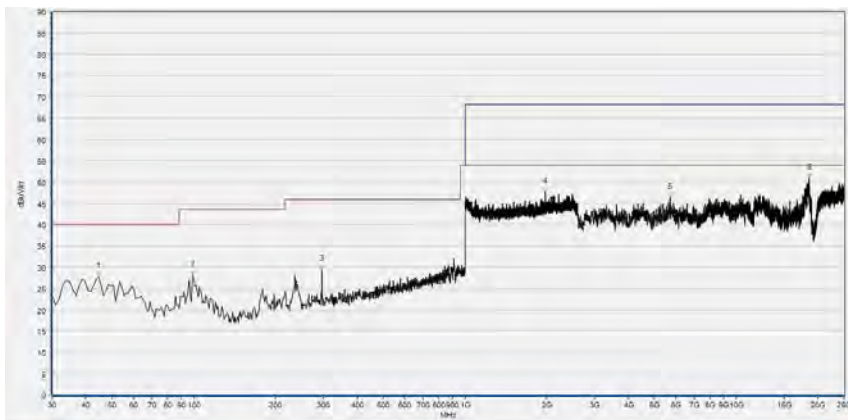


(Antenna Horizontal, 30MHz to 25GHz)



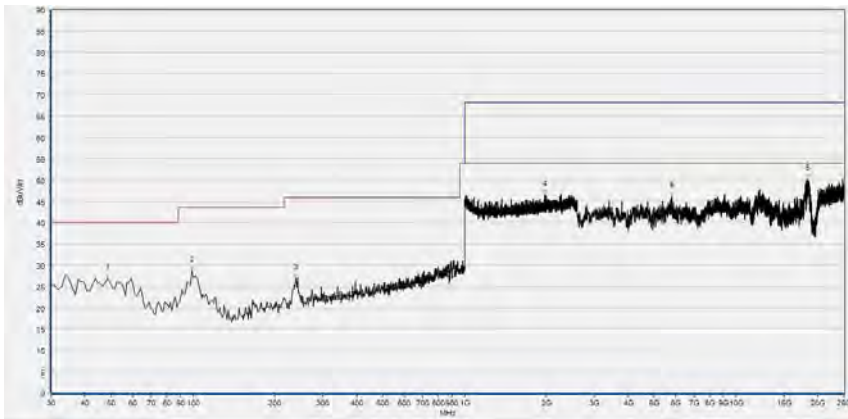
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	27.79	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	28.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	29.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	47.76	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5714.223	46.48	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18551.990	50.93	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

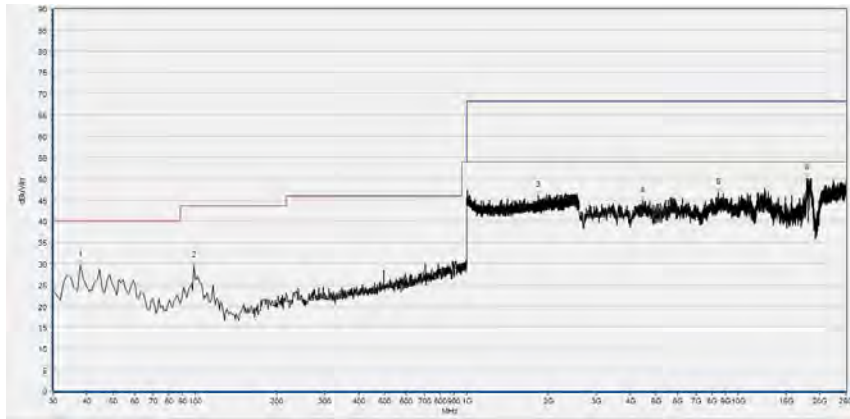
(Antenna Horizontal, 30MHz to 25GHz)



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	Vertical	PASS
98.939	28.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.759	27.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1980.060	46.65	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5794.879	46.22	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18310.022	50.23	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

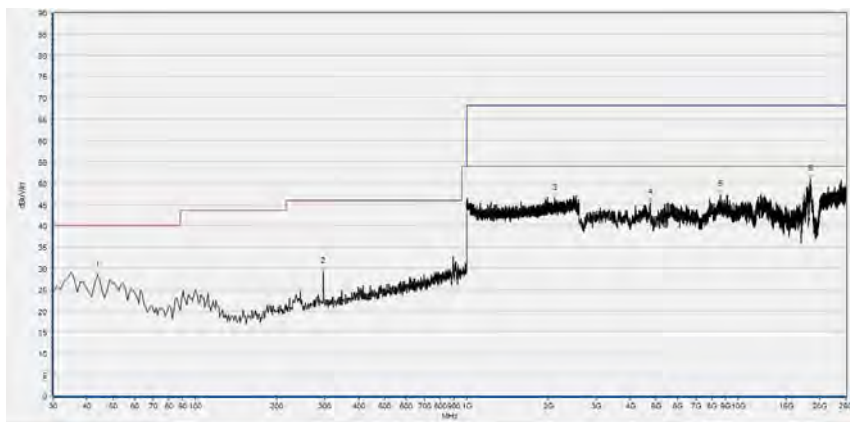
(Antenna Vertical, 30MHz to 25GHz)

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
37.768	29.63	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	29.43	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1838.680	46.09	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
4441.648	44.83	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8452.050	46.72	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
17933.627	50.09	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

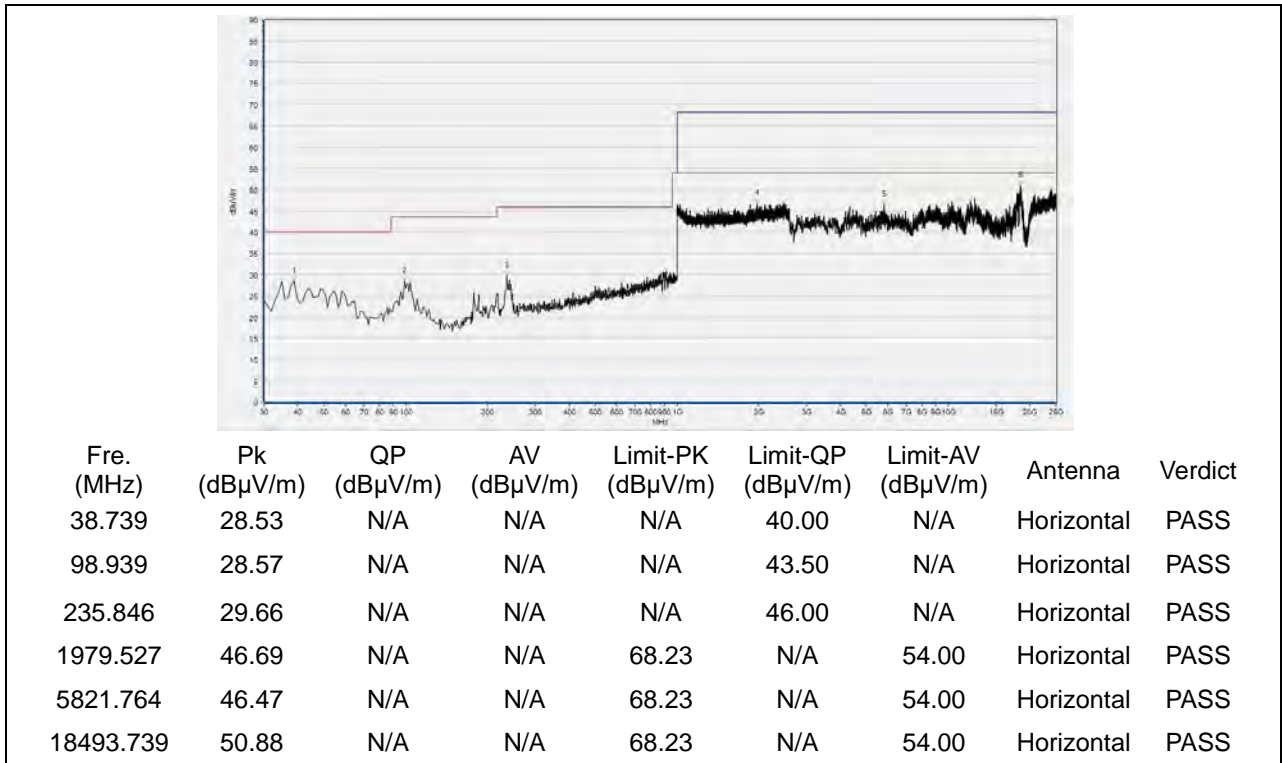
(Antenna Horizontal, 30MHz to 25GHz)



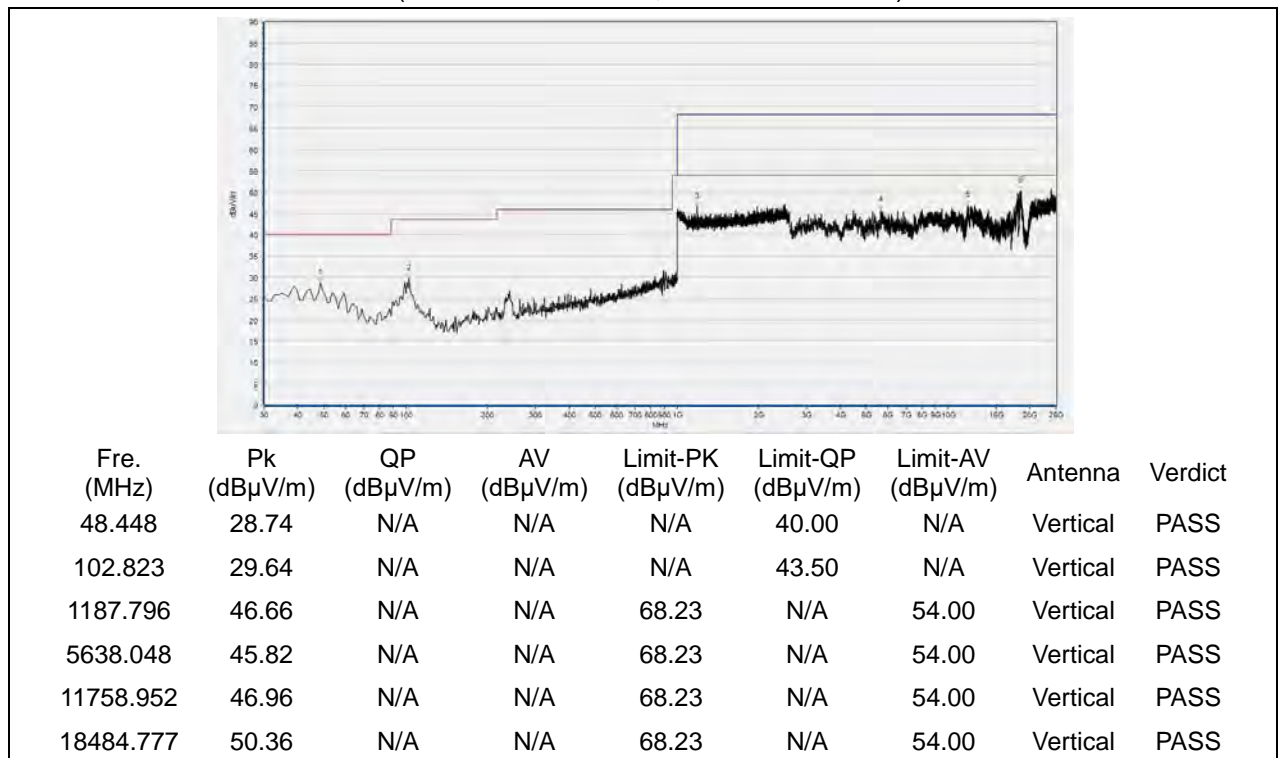
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	28.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
297.017	29.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2109.170	46.44	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4741.868	45.39	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
8626.805	47.19	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18480.296	50.99	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 120

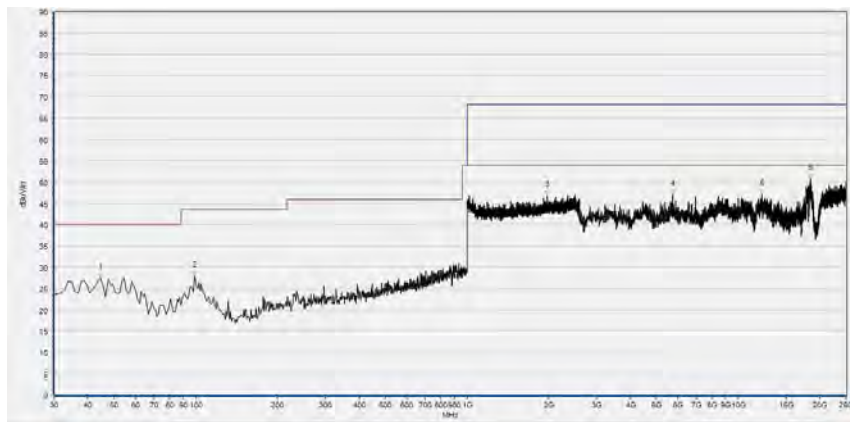


(Antenna Horizontal, 30MHz to 25GHz)



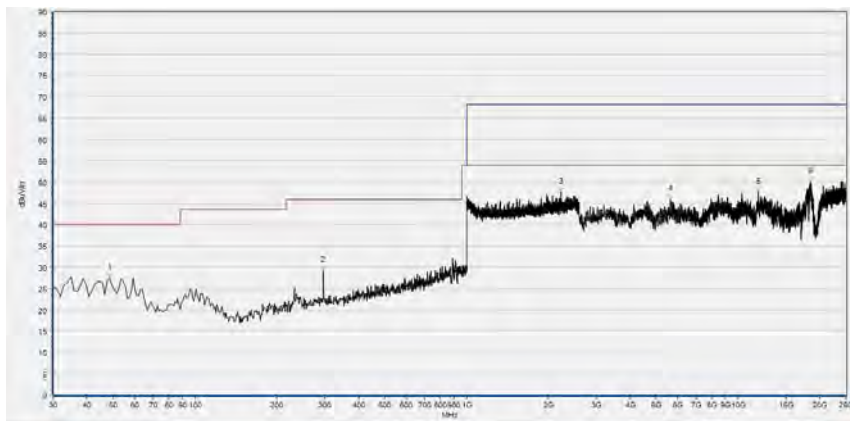
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	27.53	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	27.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1979.527	46.97	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5723.185	47.13	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12247.369	47.02	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18466.853	50.86	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

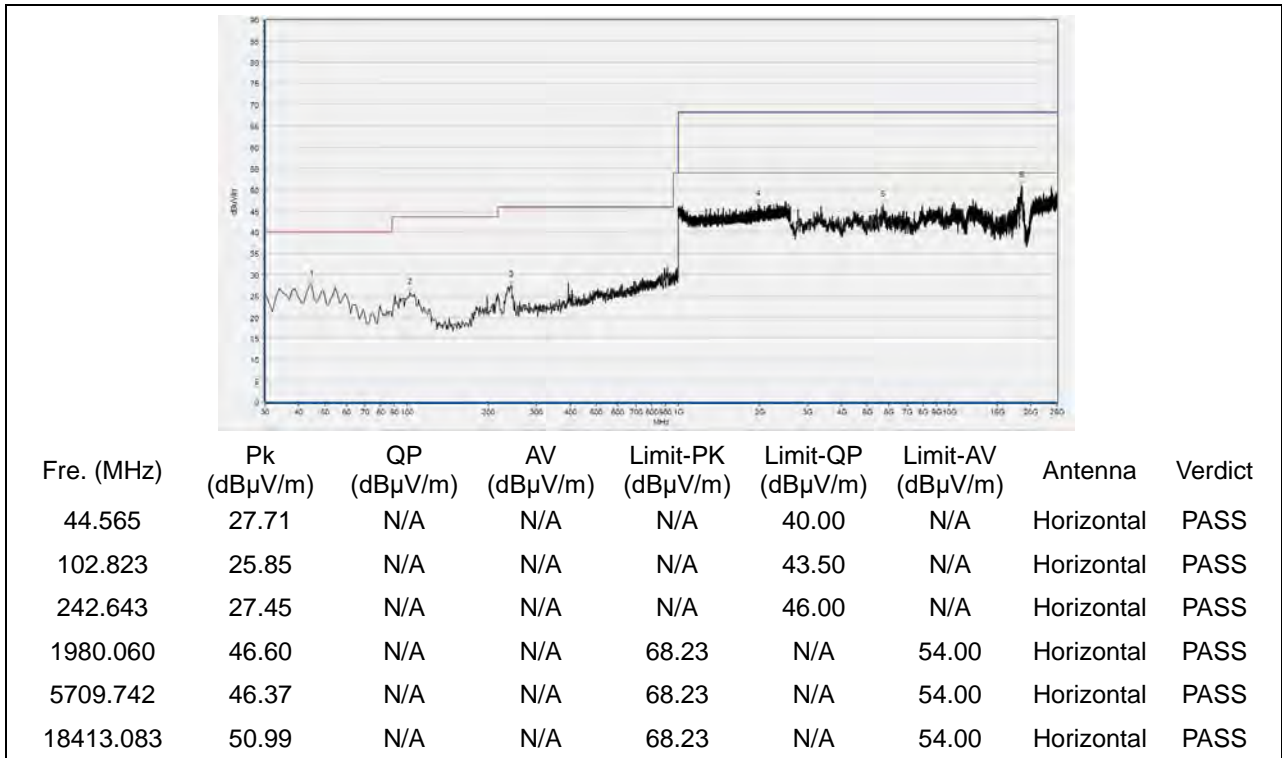
(Antenna Horizontal, 30MHz to 25GHz)



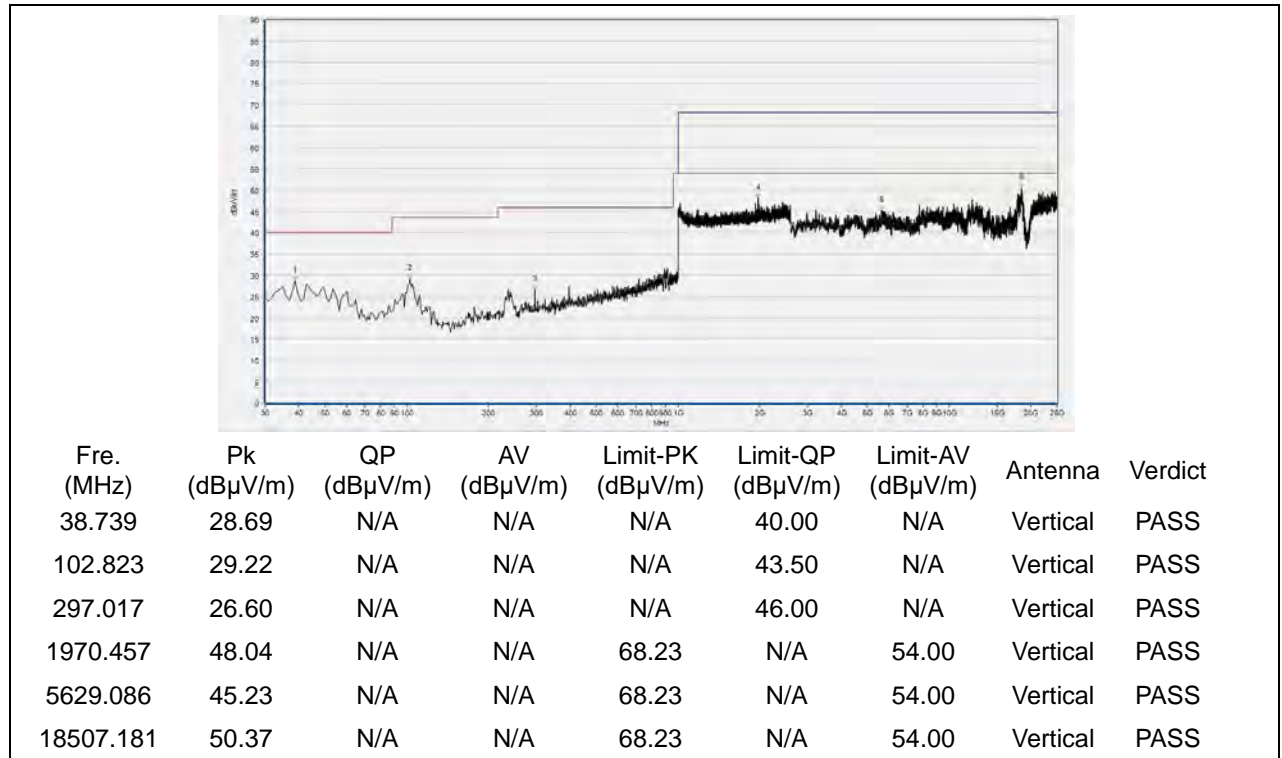
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.448	27.55	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
297.017	29.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2230.810	47.58	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5638.048	45.96	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
11853.051	47.52	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18475.815	50.11	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 149

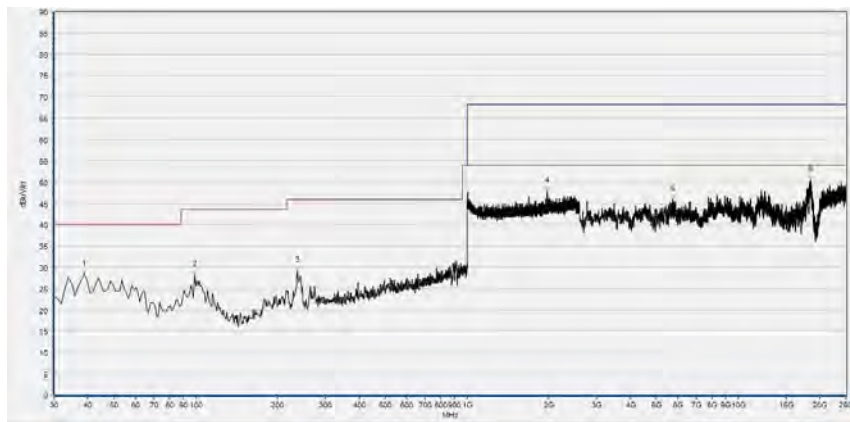


(Antenna Horizontal, 30MHz to 25GHz)



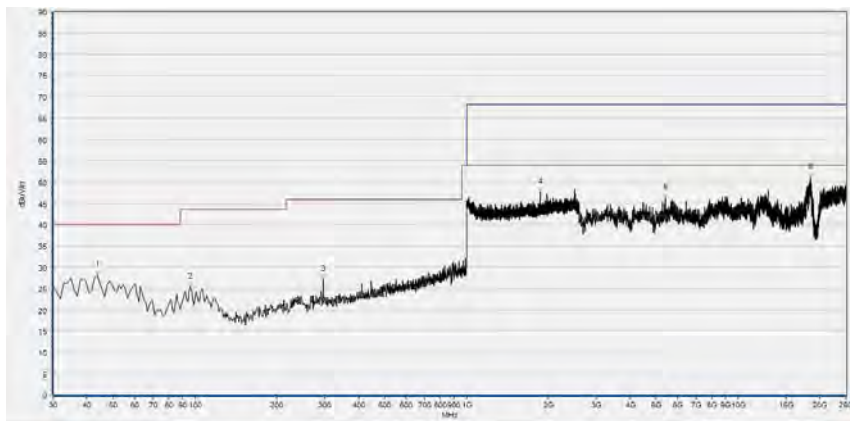
(Antenna Vertical, 30MHz to 25GHz)

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
38.739	28.32	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	28.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	29.24	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	47.89	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5745.589	45.99	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18475.815	50.46	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

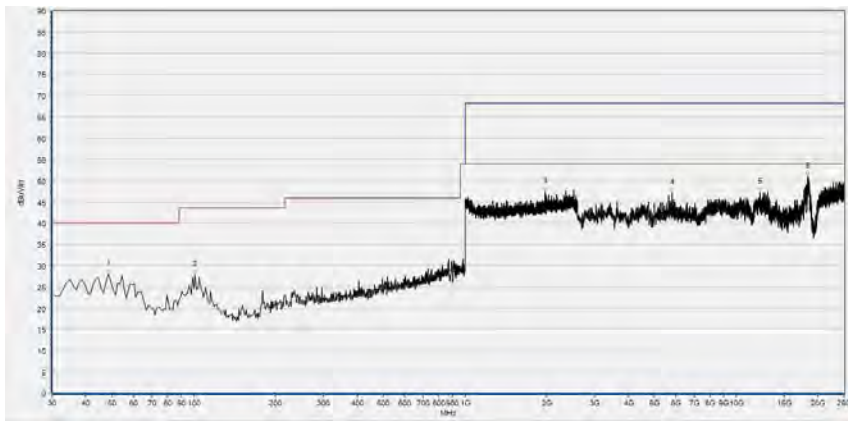
(Antenna Horizontal, 30MHz to 25GHz)



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	28.08	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
96.026	25.32	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	27.23	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1864.288	47.56	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5400.560	46.22	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18426.525	51.04	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

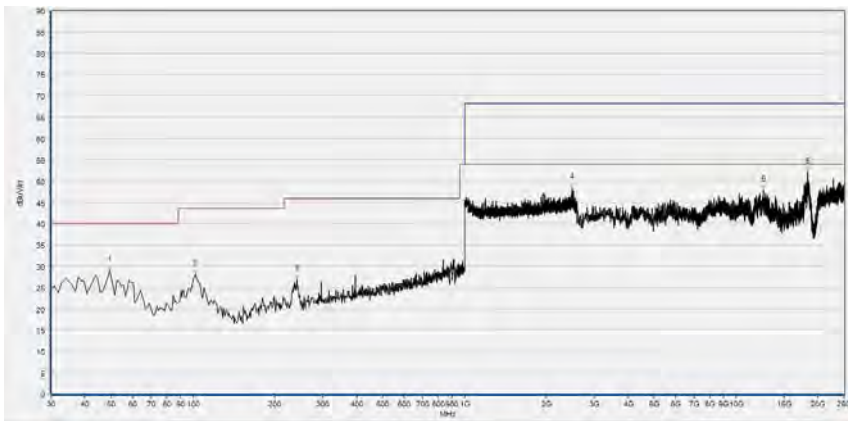
(Antenna Vertical, 30MHz to 25GHz)

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
48.448	27.99	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
100.881	27.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1970.457	47.43	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5790.398	47.15	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
12233.927	47.18	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18318.984	51.00	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

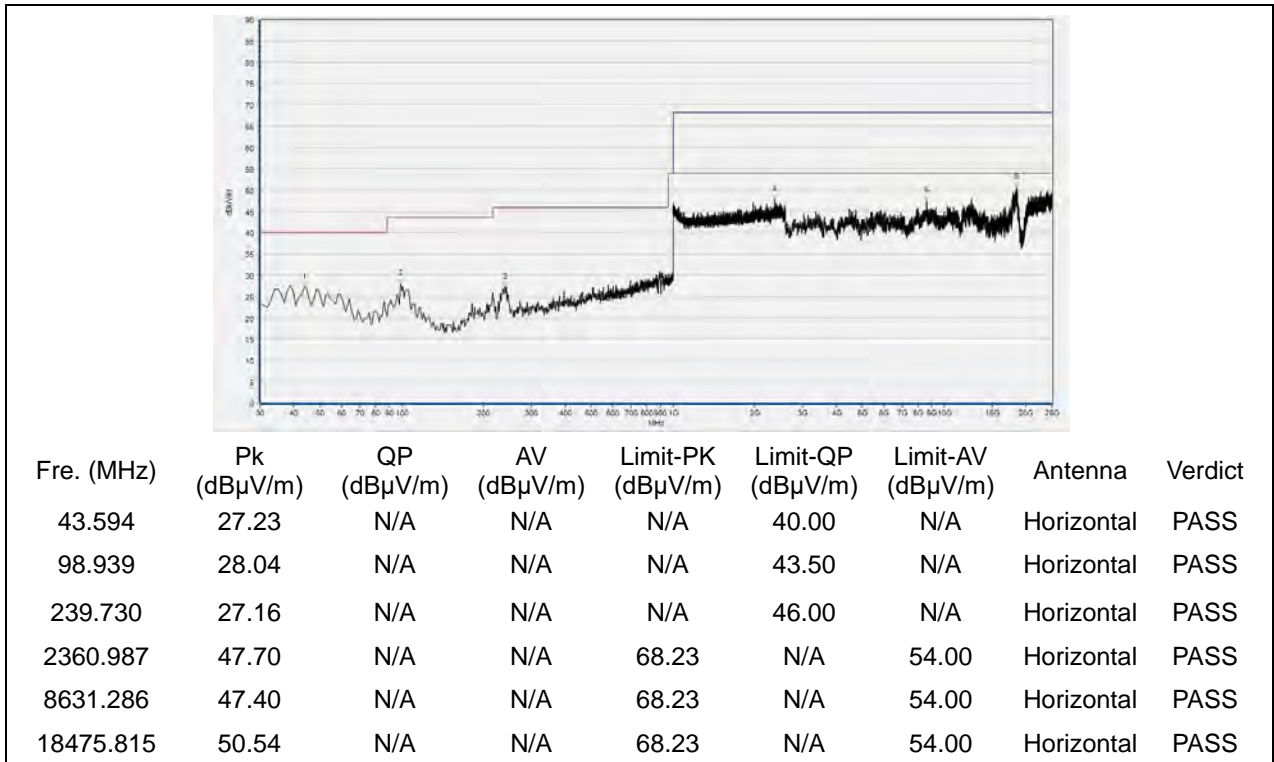


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
49.419	28.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
101.852	28.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
241.672	27.05	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2492.764	48.44	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12614.803	47.89	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18323.465	52.05	N/A	43.88	68.23	N/A	54.00	Vertical	PASS

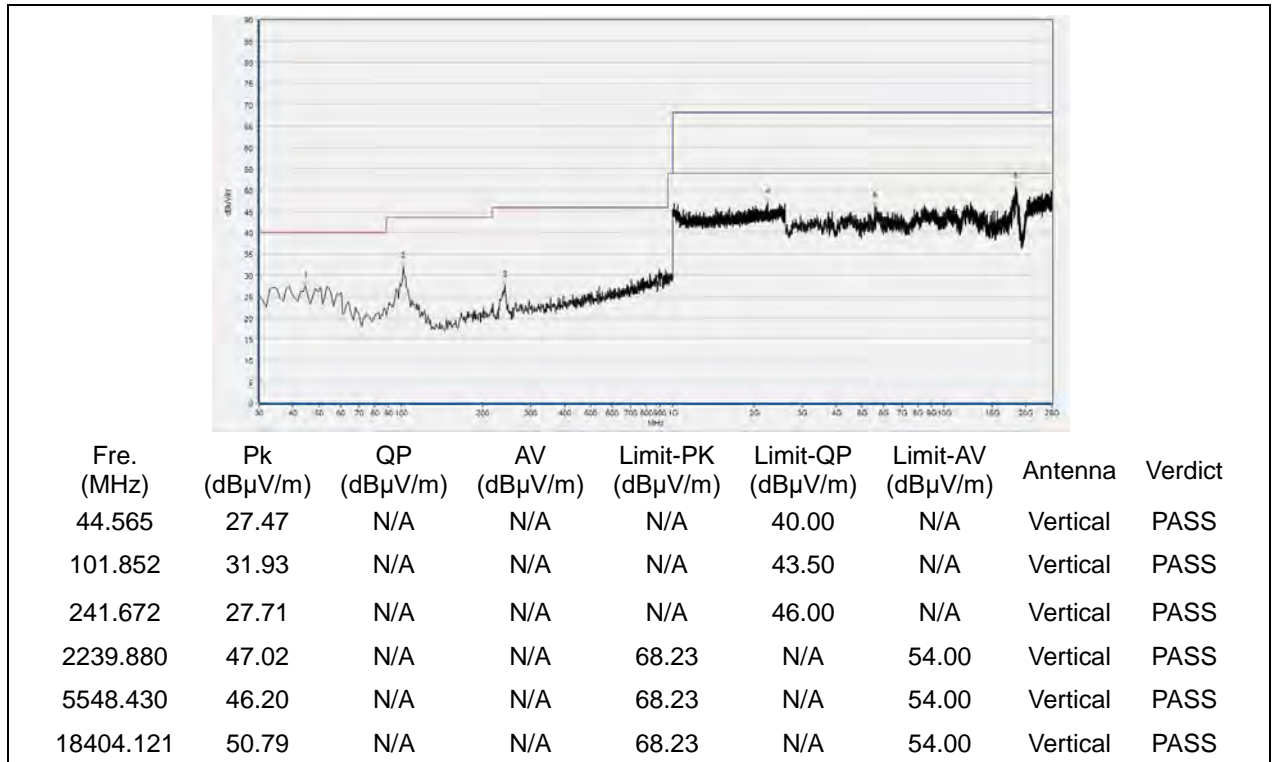
(Antenna Vertical, 30MHz to 25GHz)

802.11n (HT40) Test mode

Plots for Channel = 38

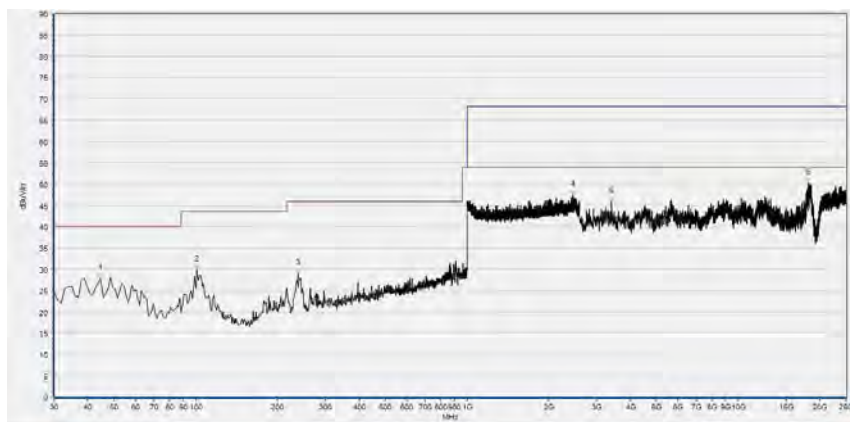


(Antenna Horizontal, 30MHz to 25GHz)



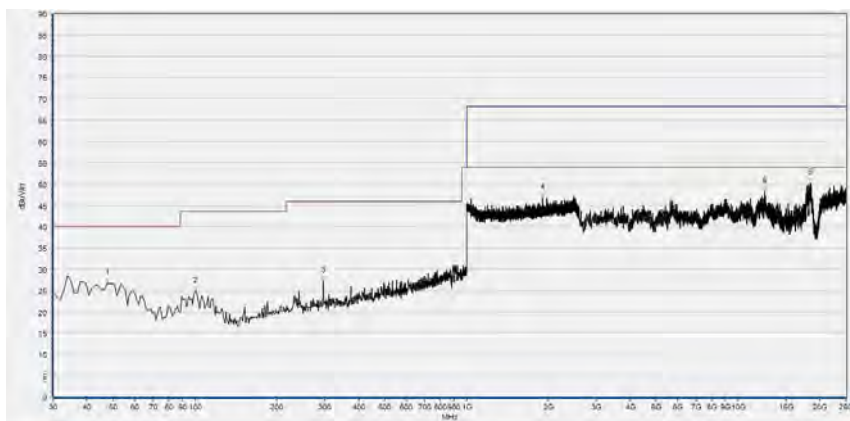
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	27.79	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
100.881	29.82	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	28.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2455.418	47.45	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
3415.523	45.97	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18166.633	50.24	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



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
47.477	26.84	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.910	24.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	27.29	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1902.701	46.75	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12525.185	48.22	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18493.739	50.27	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)