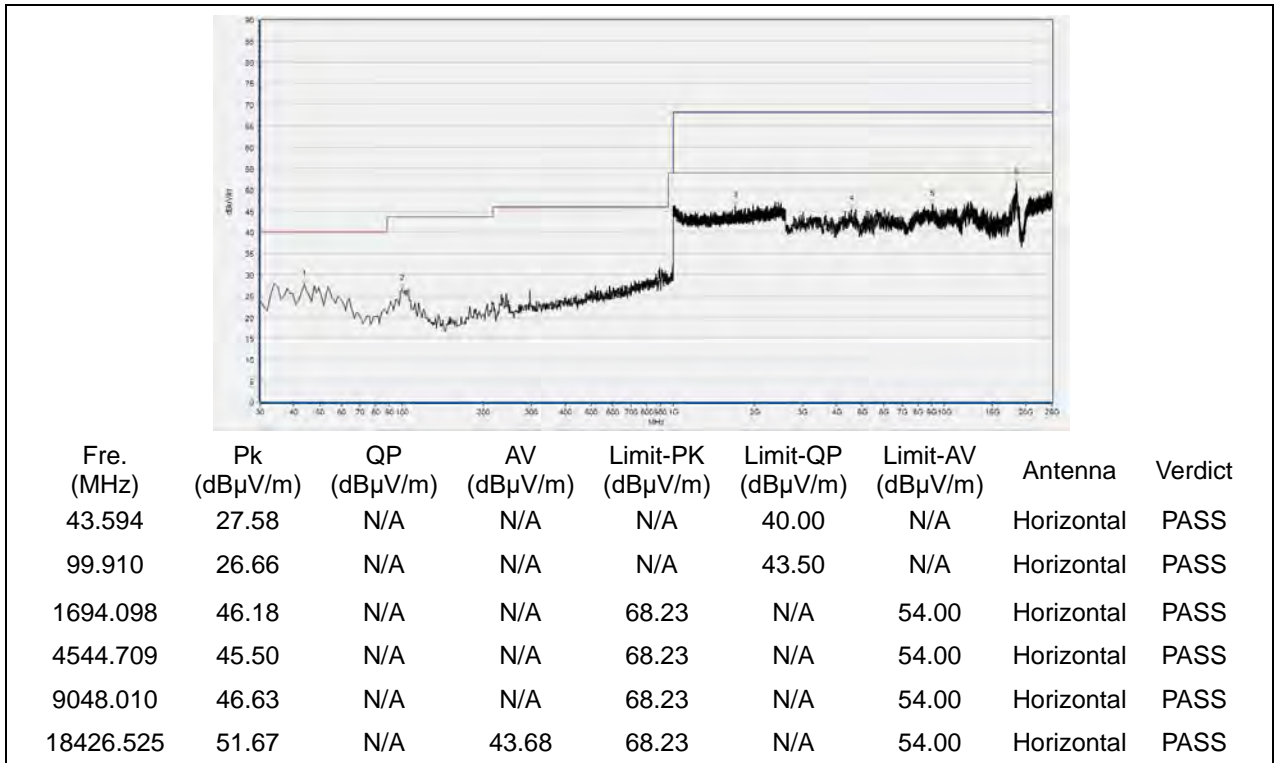
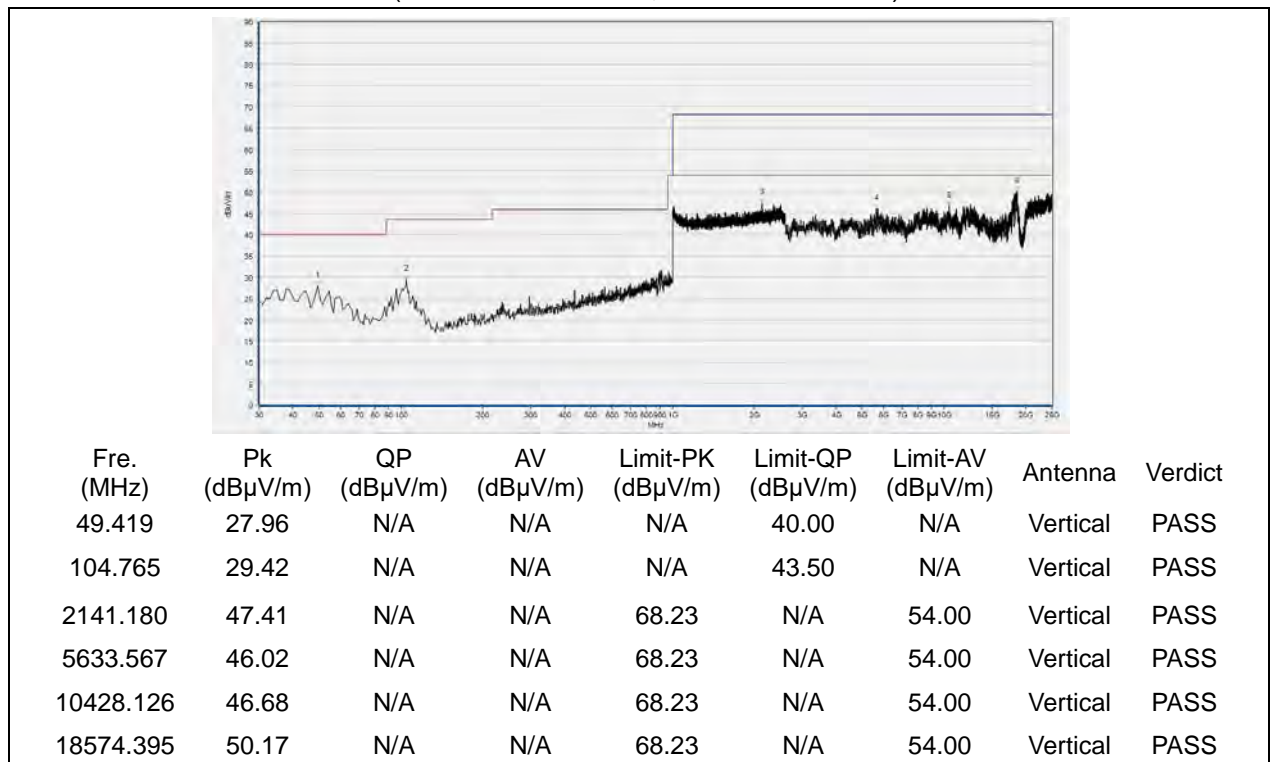


Plots for Channel = 54

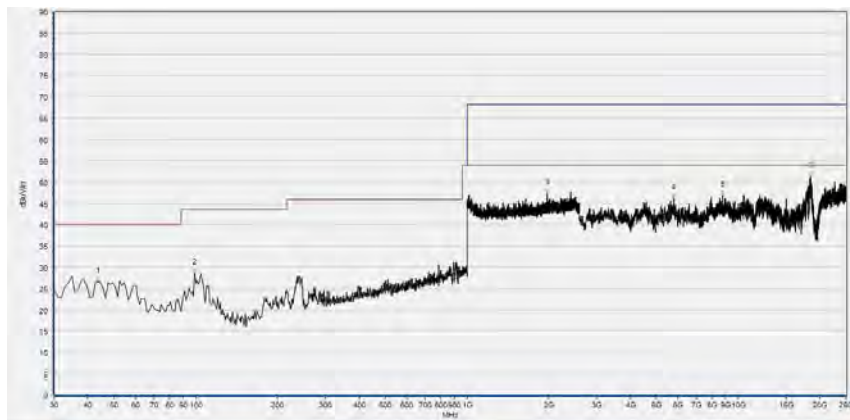


(Antenna Horizontal, 30MHz to 25GHz)



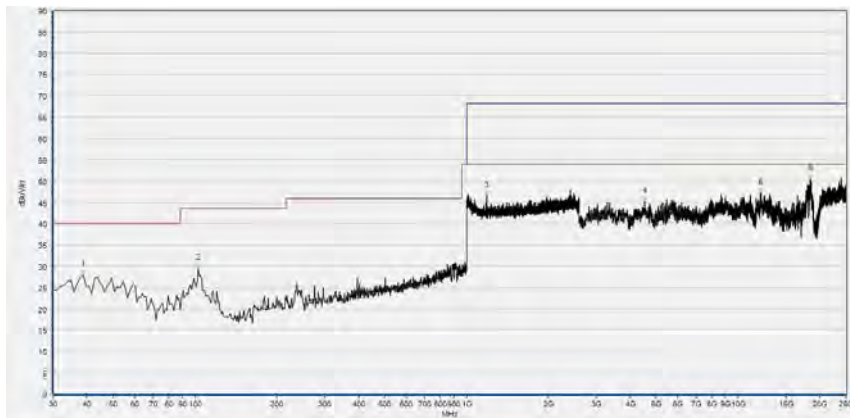
(Antenna Vertical, 30MHz to 25GHz)

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	26.63	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	28.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1980.060	47.41	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5785.917	46.21	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8743.309	46.88	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18498.220	51.34	N/A	43.51	68.23	N/A	54.00	Horizontal	PASS

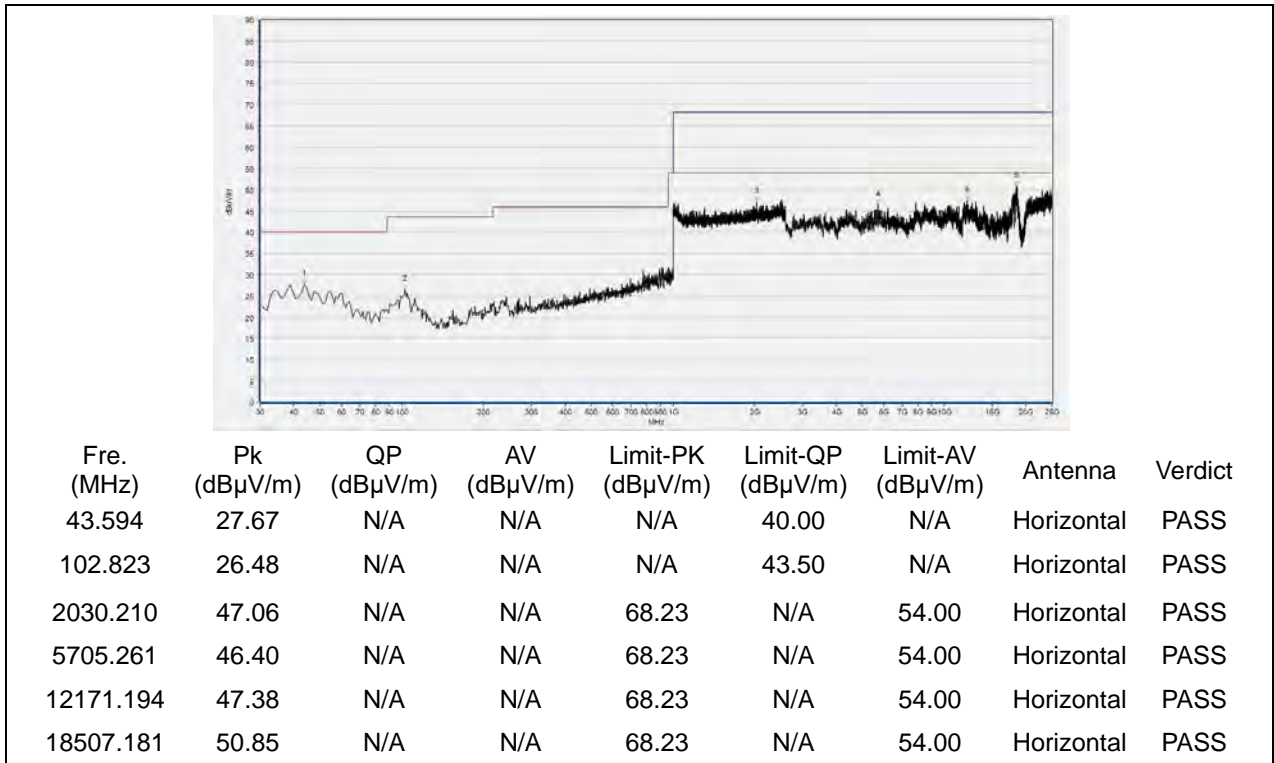
(Antenna Horizontal, 30MHz to 25GHz)



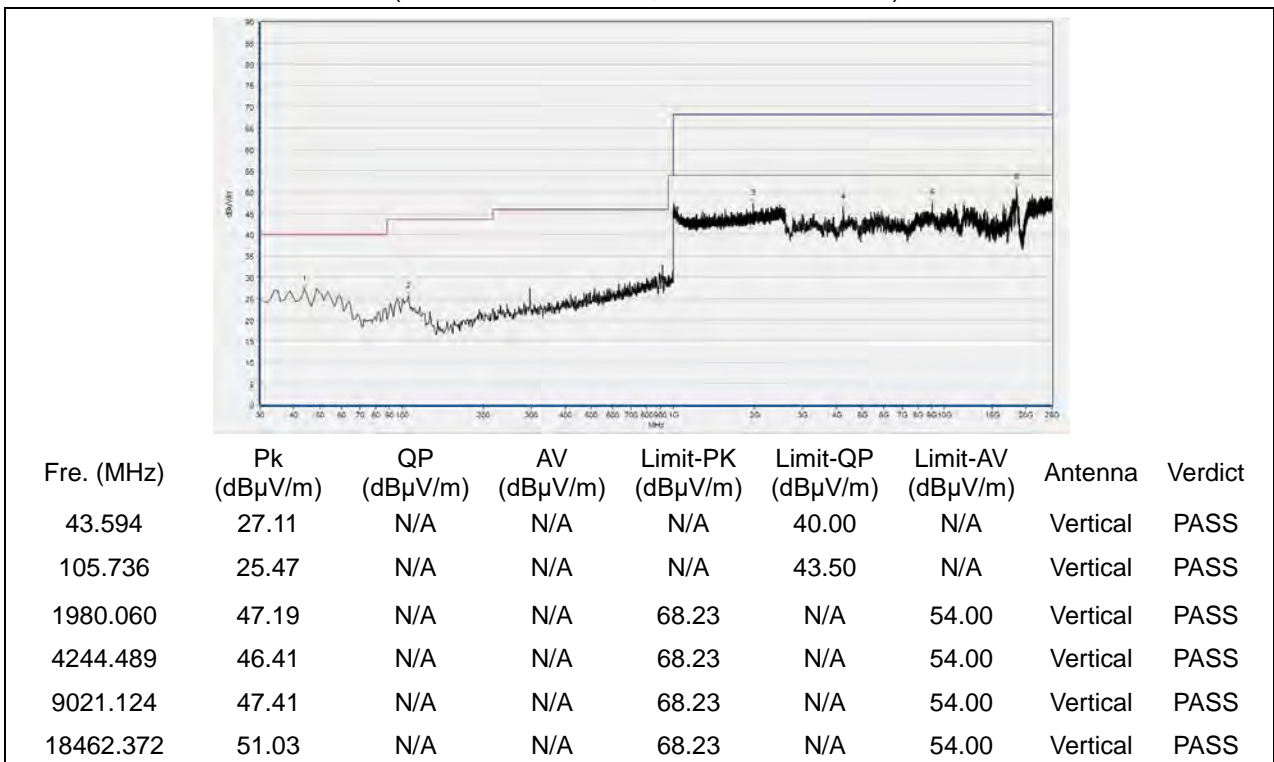
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
38.739	27.97	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
102.823	29.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1187.796	46.55	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4526.785	45.33	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12063.653	47.10	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18502.701	50.37	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 102

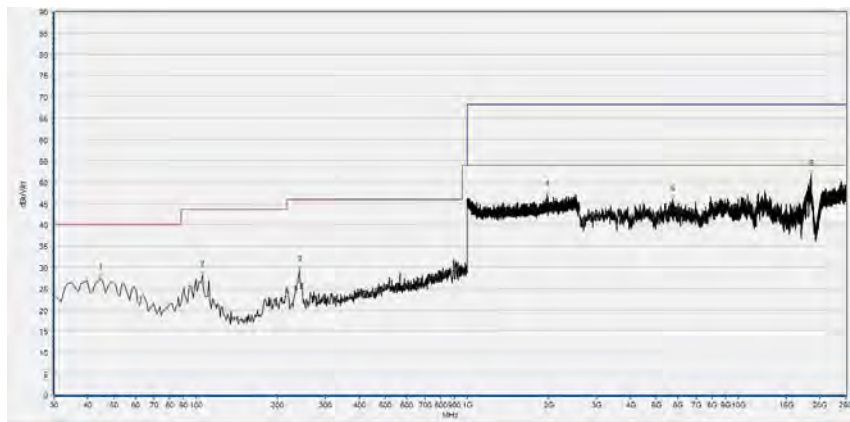


(Antenna Horizontal, 30MHz to 25GHz)



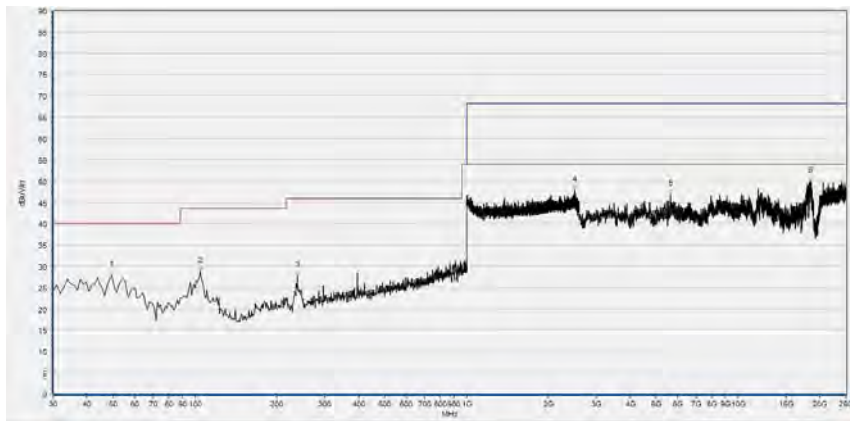
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	27.53	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
105.736	28.13	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
240.701	29.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1979.527	47.06	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5718.704	45.93	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18569.914	51.78	N/A	43.68	68.23	N/A	54.00	Horizontal	PASS

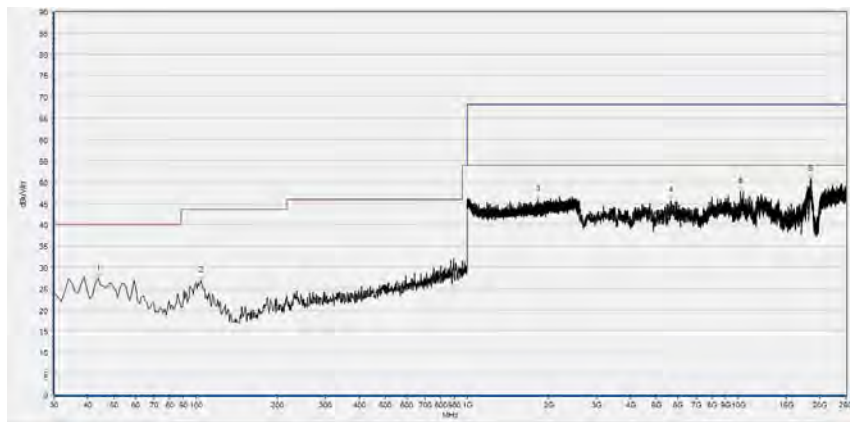
(Antenna Horizontal, 30MHz to 25GHz)



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	27.84	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
104.765	28.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	27.81	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2495.432	47.93	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5647.009	46.85	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18457.892	49.95	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

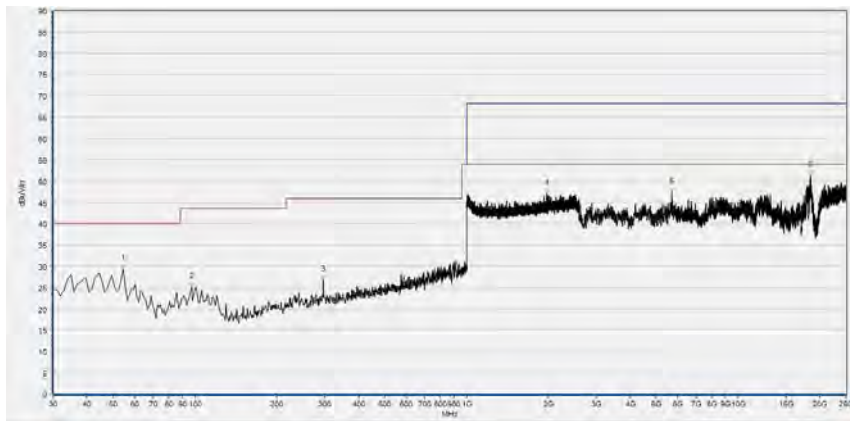
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	27.33	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	26.76	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1823.208	45.92	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5642.529	45.65	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
10208.562	47.85	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18435.487	50.59	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

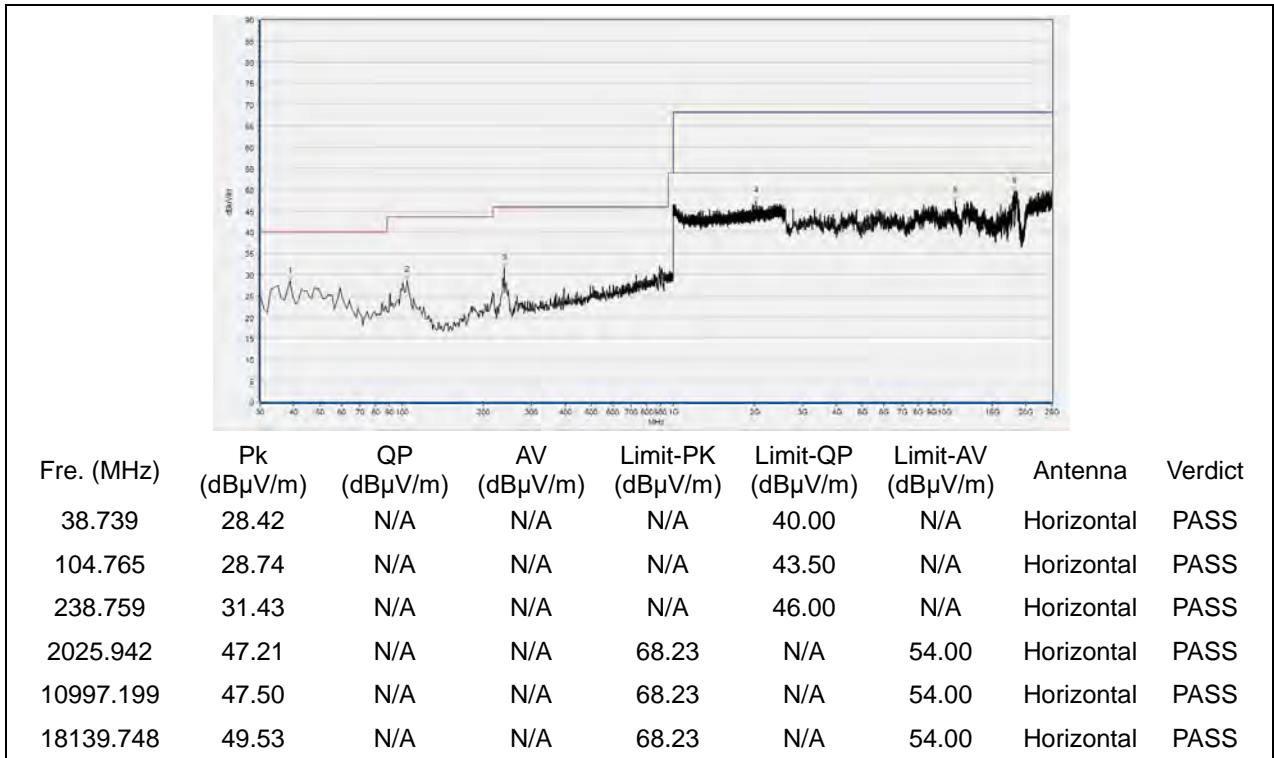
(Antenna Horizontal, 30MHz to 25GHz)



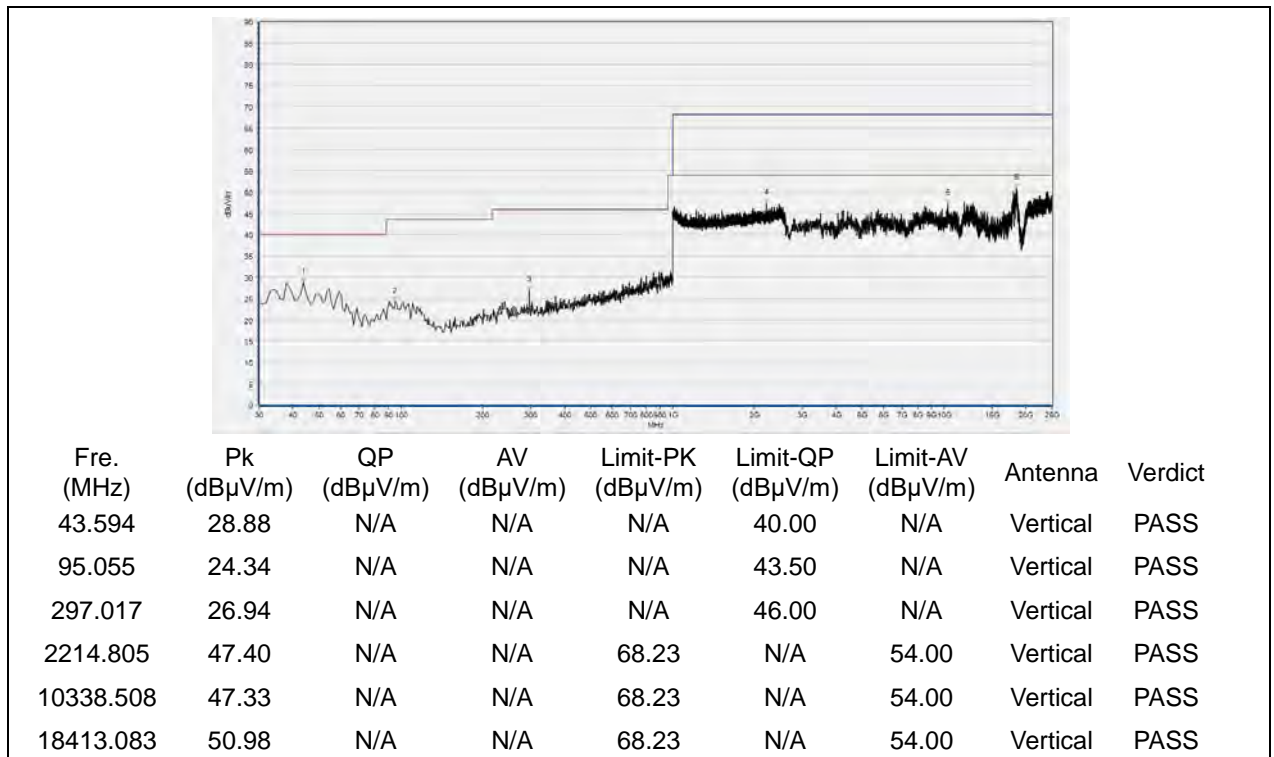
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	29.40	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
96.997	25.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	26.90	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1979.527	47.02	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5709.742	47.41	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18462.372	51.21	N/A	43.65	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 151

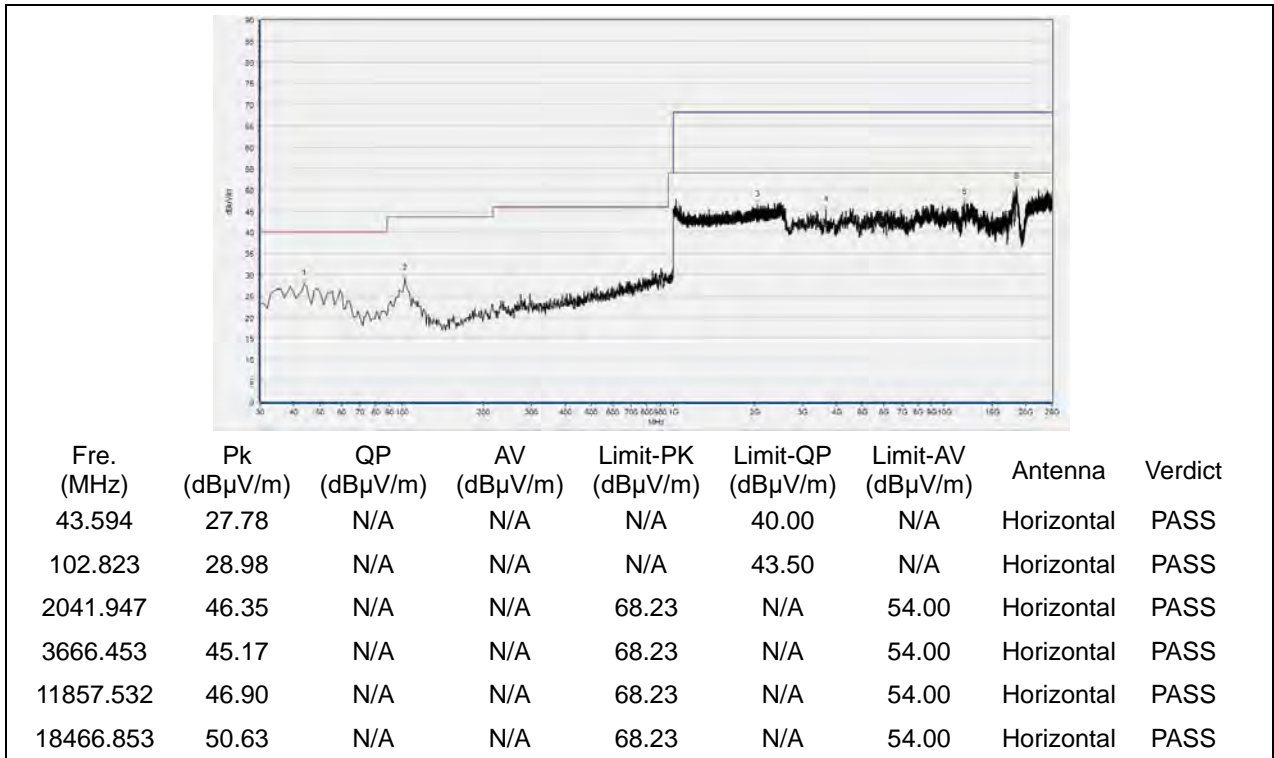


(Antenna Horizontal, 30MHz to 25GHz)

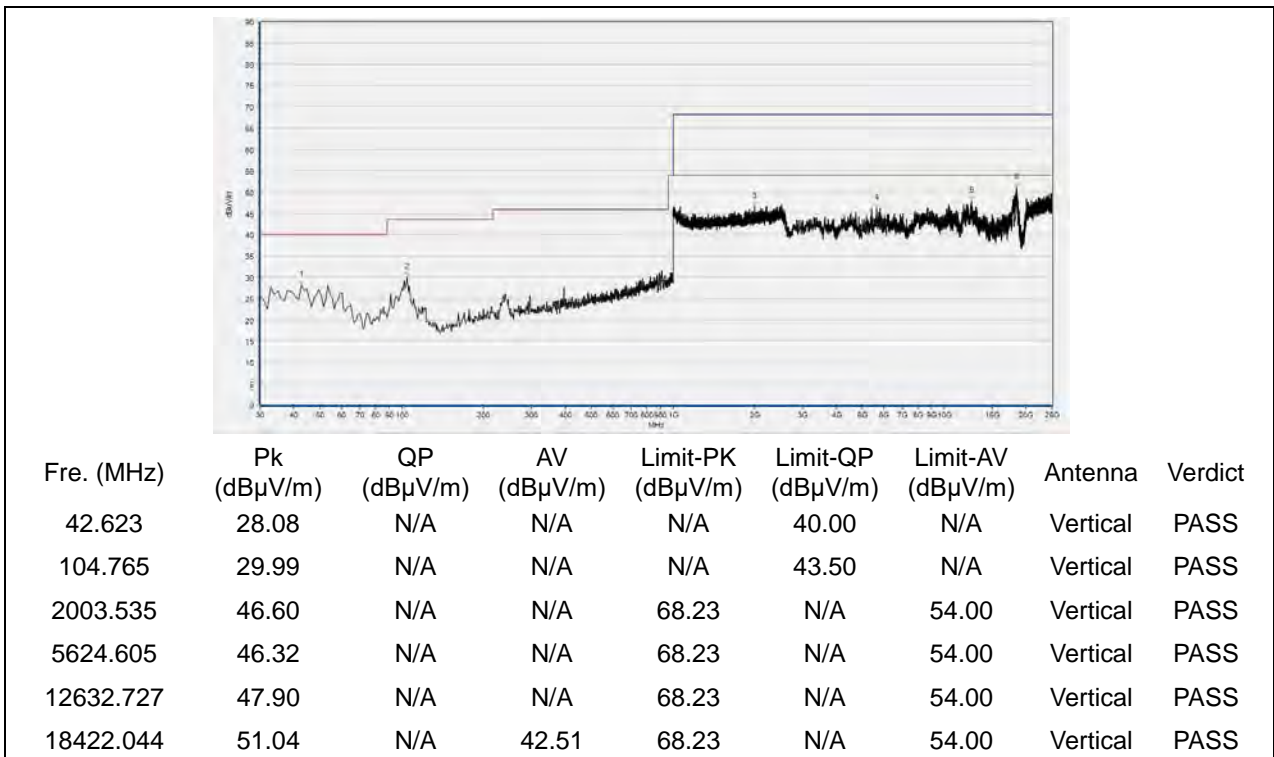


(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 159



(Antenna Horizontal, 30MHz to 25GHz)

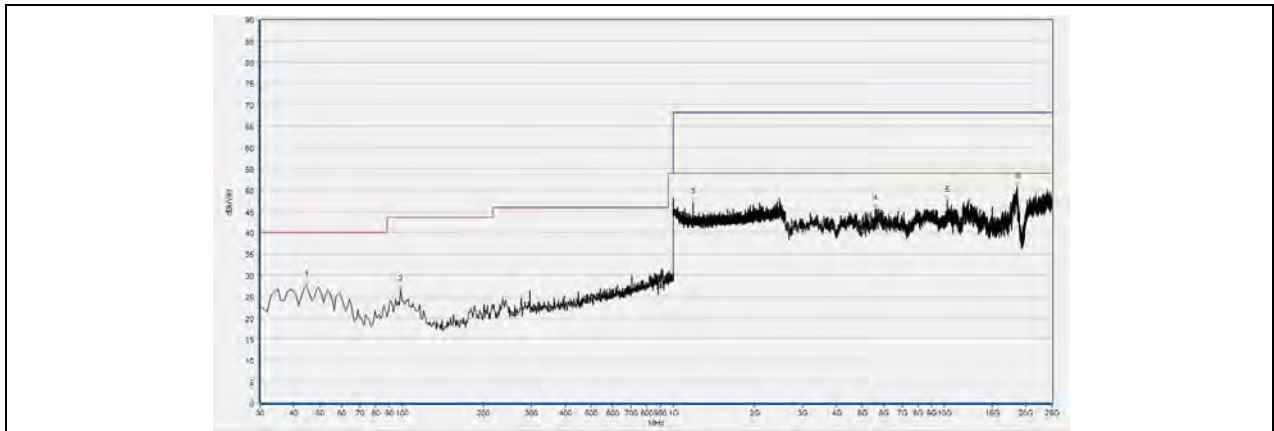


(Antenna Vertical, 30MHz to 25GHz)



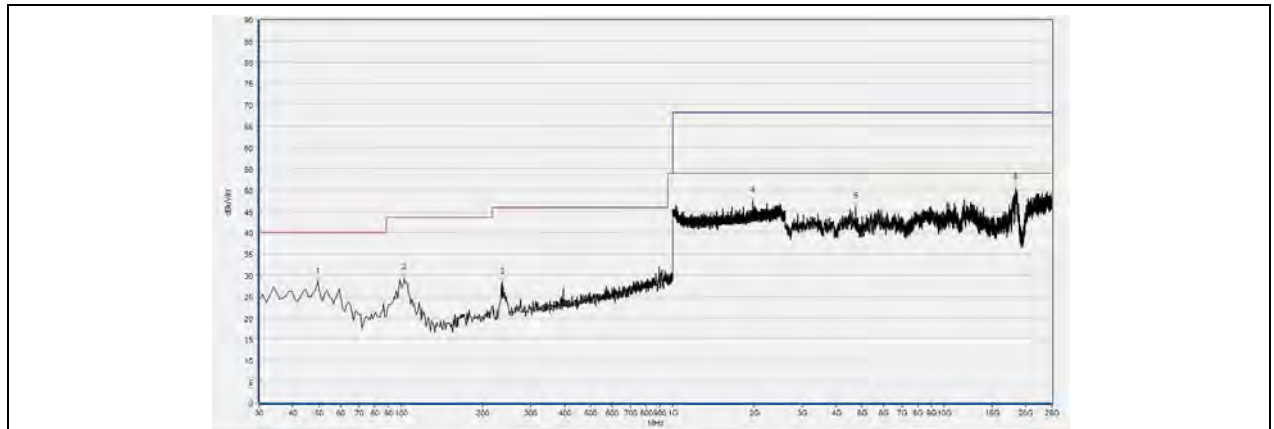
**802.11ac (VHT40) Test mode**

**Plots for Channel = 38**



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
44.565	27.62	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	26.68	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1187.796	47.06	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5552.911	45.54	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
10275.775	47.52	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18574.395	50.72	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

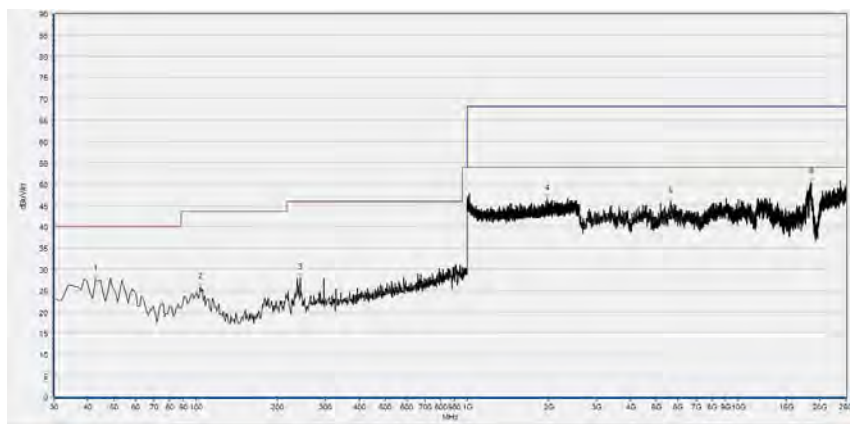


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
49.419	28.50	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
102.823	29.36	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	28.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1979.527	47.44	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4723.945	46.13	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18390.678	50.42	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

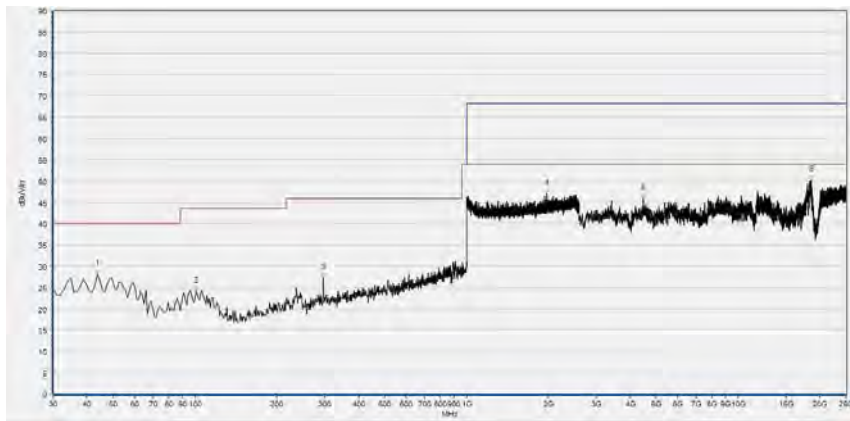


Plot for Channel = 46



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
42.623	27.74	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	25.80	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
242.643	27.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	46.66	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5629.086	45.91	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18547.510	50.37	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

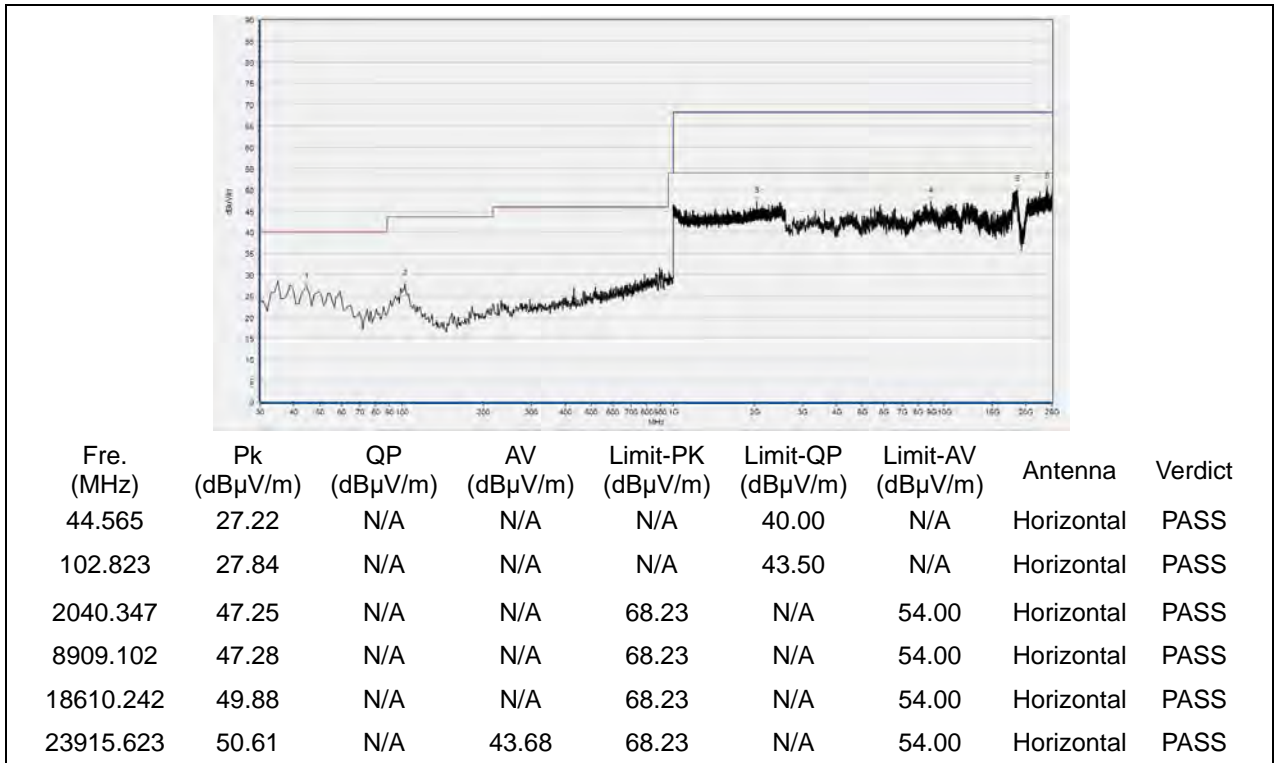
(Antenna Horizontal, 30MHz to 25GHz)



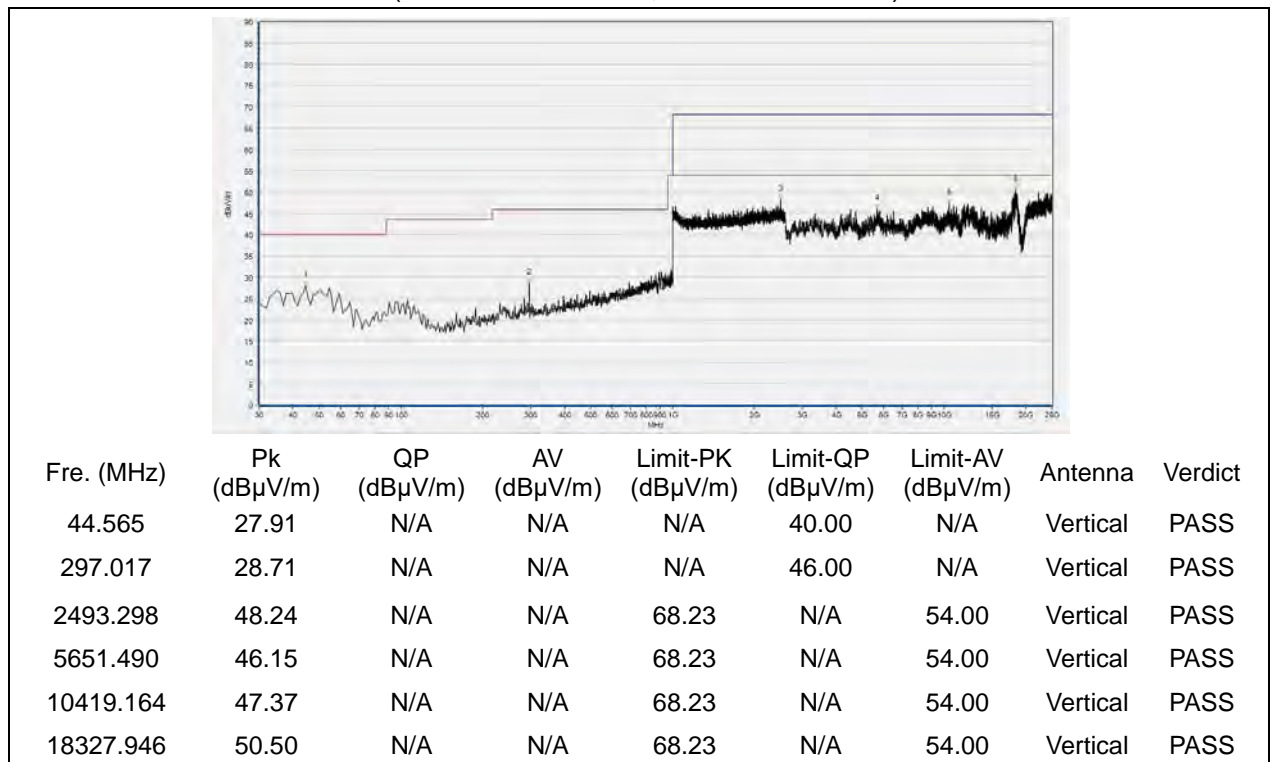
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	28.11	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	24.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	27.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1980.060	47.06	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4477.495	45.91	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18574.395	50.33	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 54

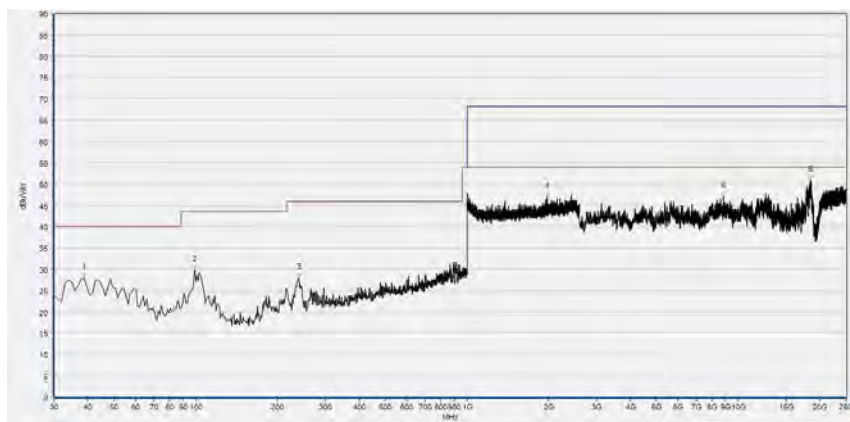


(Antenna Horizontal, 30MHz to 25GHz)



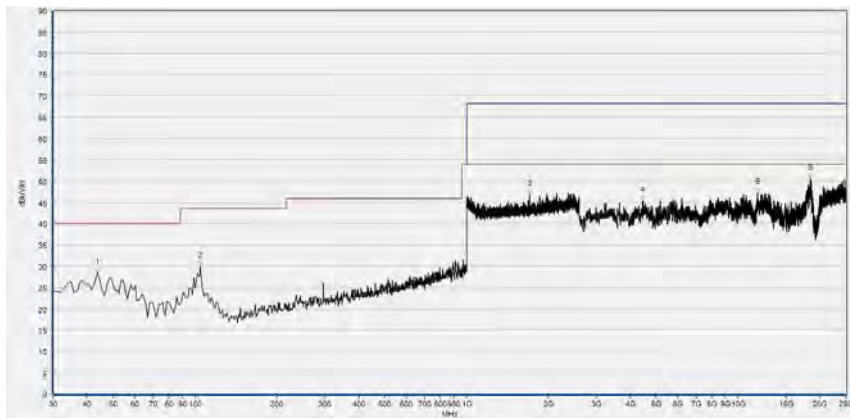
(Antenna Vertical, 30MHz to 25GHz)

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
38.739	27.91	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
98.939	29.78	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.730	27.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	47.15	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
8837.407	47.16	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18507.181	51.03	N/A	42.86	68.23	N/A	54.00	Horizontal	PASS

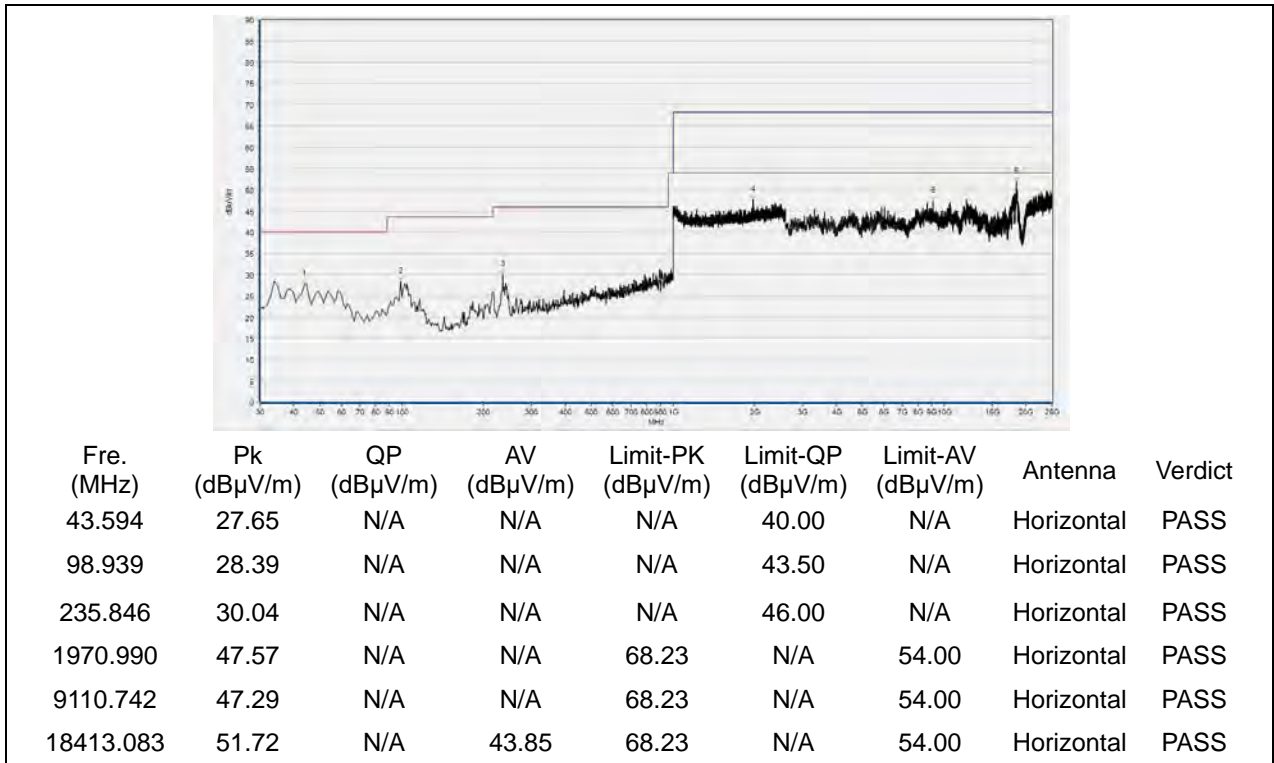
(Antenna Horizontal, 30MHz to 25GHz)



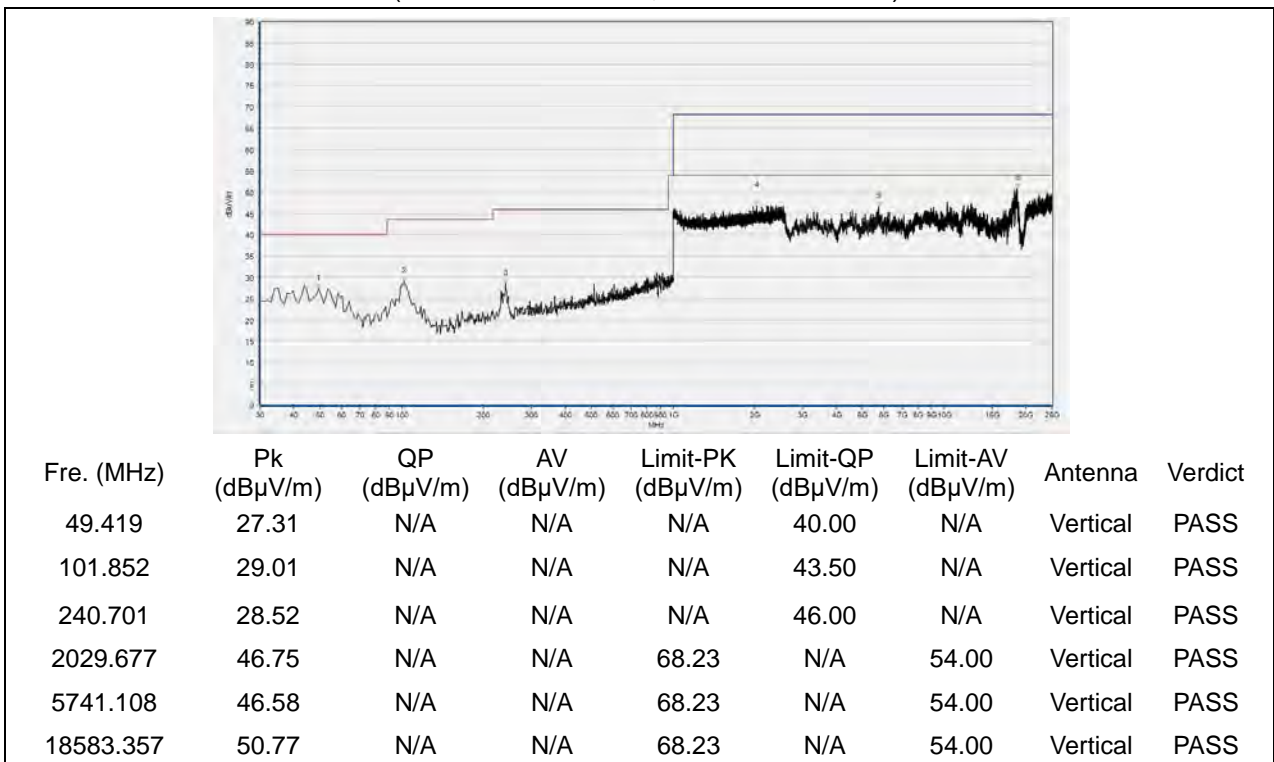
Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.594	28.55	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
104.765	29.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1707.969	46.95	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4450.610	45.46	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
11785.837	47.33	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18466.853	50.68	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 102

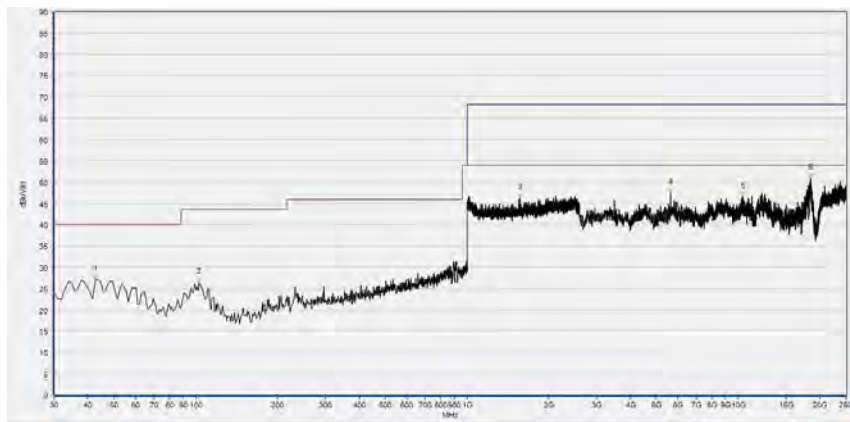


(Antenna Horizontal, 30MHz to 25GHz)



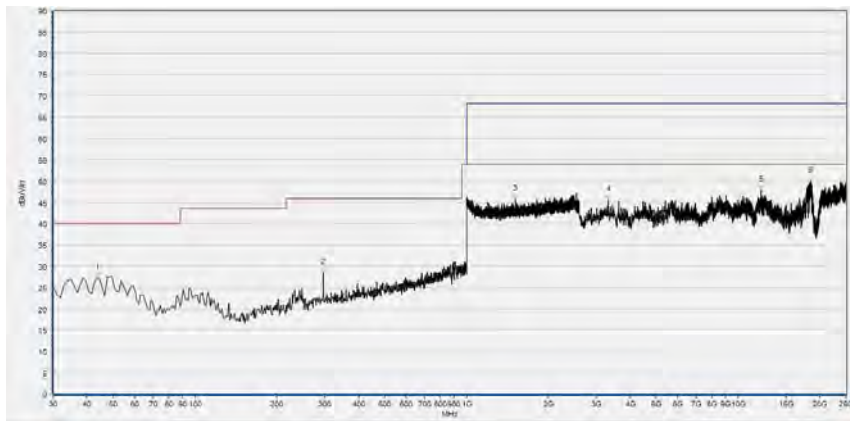
(Antenna Vertical, 30MHz to 25GHz)

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
42.623	27.23	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
102.823	26.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1567.656	46.25	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5638.048	47.47	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
10396.759	46.60	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18471.334	50.95	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

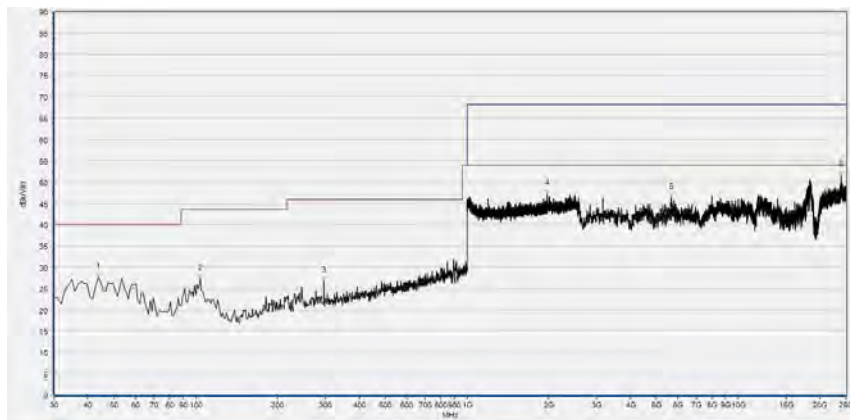
(Antenna Horizontal, 30MHz to 25GHz)



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	27.38	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
297.017	28.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1516.439	45.77	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
3321.424	45.62	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12166.713	47.89	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18431.006	49.98	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

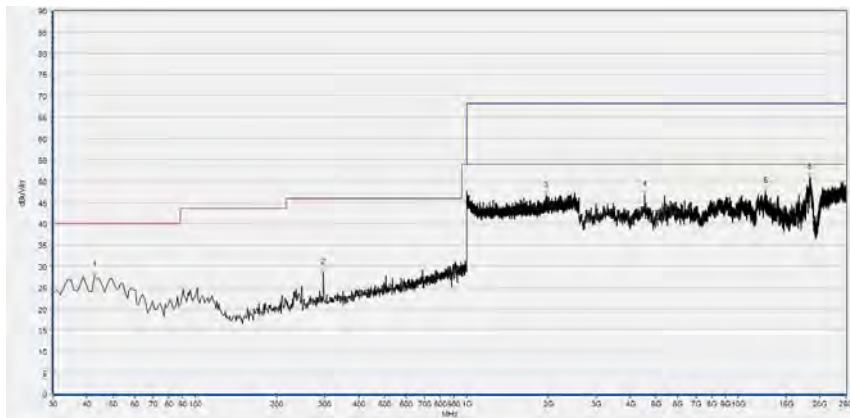
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	27.69	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	27.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
297.017	26.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	47.21	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5651.490	46.42	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
24032.126	51.70	N/A	43.67	68.23	N/A	54.00	Horizontal	PASS

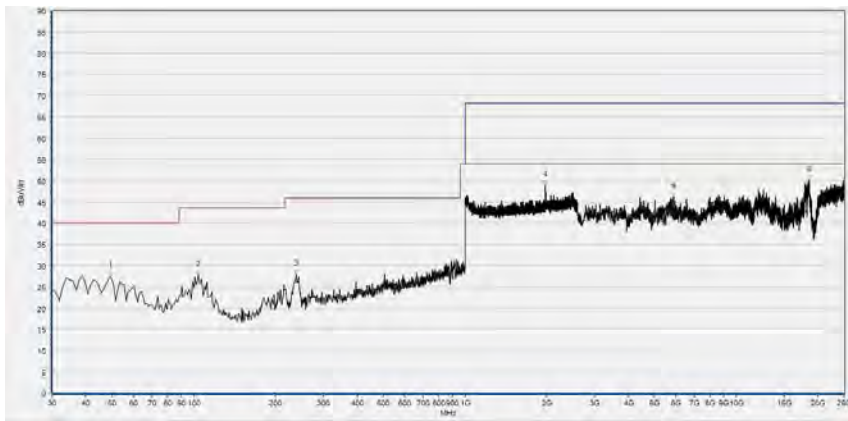
(Antenna Horizontal, 30MHz to 25GHz)



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
42.623	27.89	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
297.017	28.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1959.787	46.54	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
4531.266	46.70	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12623.765	47.63	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18404.121	50.76	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

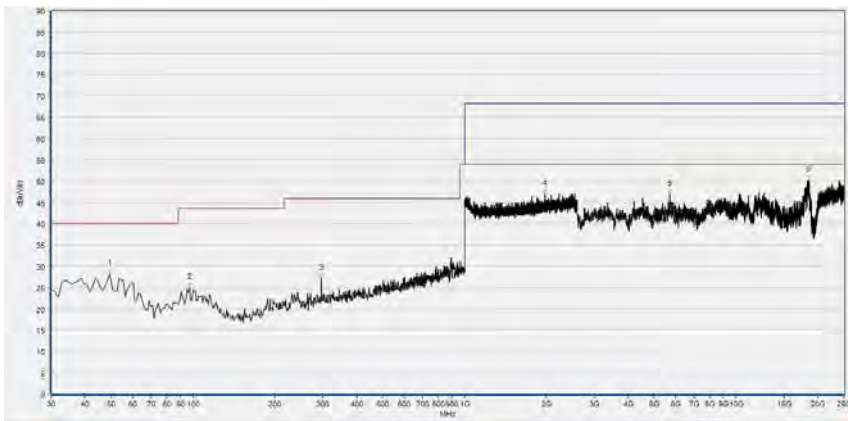
(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 151



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	27.52	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
103.794	27.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	28.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1980.060	48.97	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5875.535	46.33	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18529.586	50.19	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS

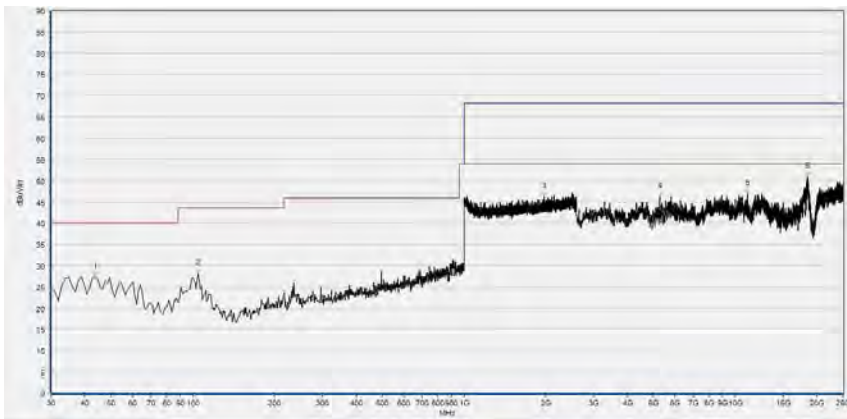
(Antenna Horizontal, 30MHz to 25GHz)



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	28.24	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
96.997	24.92	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
297.017	27.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1980.060	46.93	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
5709.742	46.90	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18511.662	50.30	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

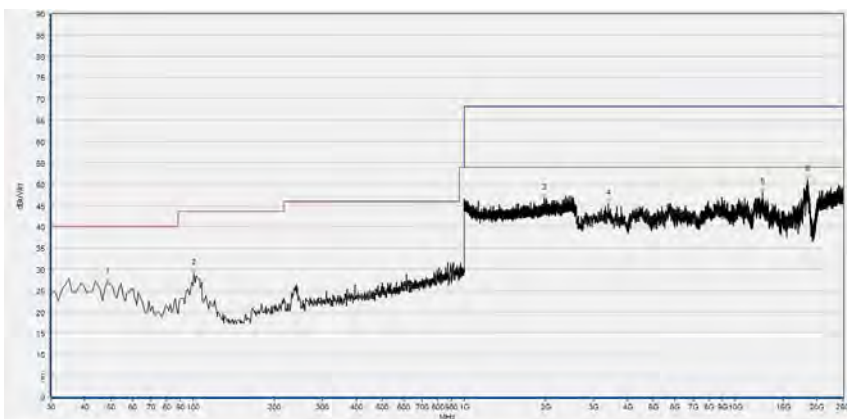
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	27.34	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
104.765	28.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1970.990	46.20	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
5266.133	46.32	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
11077.856	46.96	N/A	N/A	68.23	N/A	54.00	Horizontal	PASS
18507.181	50.98	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	27.06	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
100.881	28.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1979.527	46.72	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
3402.080	45.40	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
12619.284	48.14	N/A	N/A	68.23	N/A	54.00	Vertical	PASS
18439.968	51.17	N/A	N/A	68.23	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)





## **2.9. Automatically discontinue transmission requirement**

### **2.9.1. Requirement**

According to 15.407(c), the device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met

### **2.9.2. Result**

The EUT will automatically discontinue transmission in case of either absence of information to transmit or operational failure.



## 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

<b>Company Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Department:</b>	Morlab Laboratory
<b>Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China
<b>Responsible Test Lab Manager:</b>	Mr. Su Feng
<b>Telephone:</b>	+86 755 36698555
<b>Facsimile:</b>	+86 755 36698525

### 2. Identification of the Responsible Testing Location

<b>Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
<b>Address:</b>	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.



#### 4. Test Equipments Utilized

##### 4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	2017.05.24	2018.05.23
Attenuator 1	(N/A.)	10dB	Resnet	2017.05.24	2018.05.23
Attenuator 2	(N/A.)	3dB	Resnet	2017.05.24	2018.05.23
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2017.12.03	2018.12.02
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2017.05.24	2018.05.23
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

##### 4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Receiver	MY56400093	N9038A	KEYSIGHT	2017.07.13	2018.07.12
LISN	812744	NSLK 8127	Schwarzbeck	2017.05.17	2018.05.16
Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2017.05.17	2018.05.16
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A

##### 4.3 Auxiliary Test Equipment

Equipment Name	Model No.	Brand Name	Manufacturer	Cal.Date	Cal. Due
Computer	T430i	Think Pad	Lenovo	N/A	N/A

**4.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Receiver	MY54130016	N9038A	Agilent	2017.05.17	2018.05.16
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2017.05.14	2018.05.13
Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2017.09.13	2018.09.12
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2018.03.03	2019.03.02
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2017.09.13	2018.09.12
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
1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2017.05.17	2018.05.16
18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2017.05.17	2018.05.16
Anechoic Chamber	N/A	9m*6m*6m	CRT	2017.11.19	2020.11.18

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