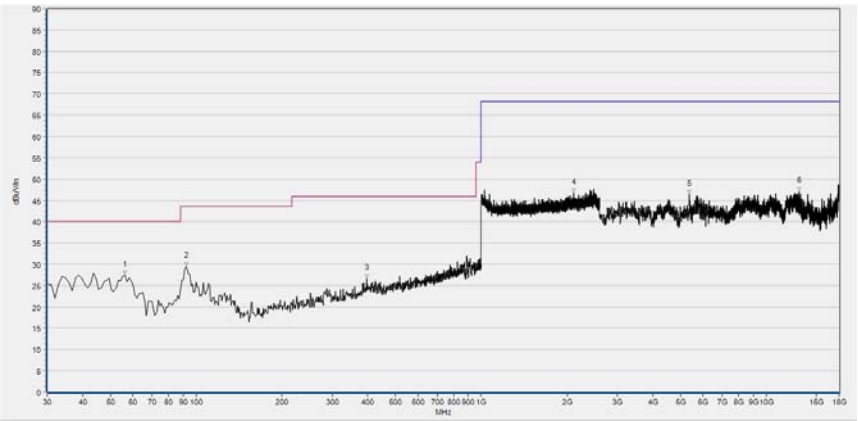
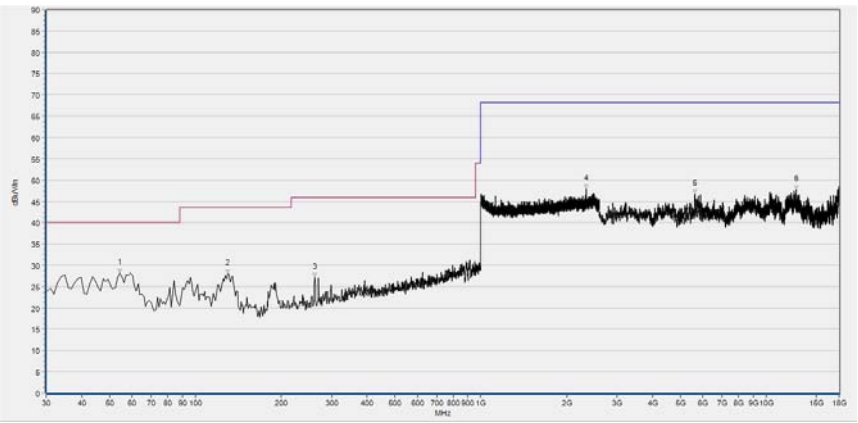
Plot for Channel = 144



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
56.216	27.47	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
92.142	29.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
396.056	26.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2111.304	46.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5373.675	46.46	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
13049.450	47.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

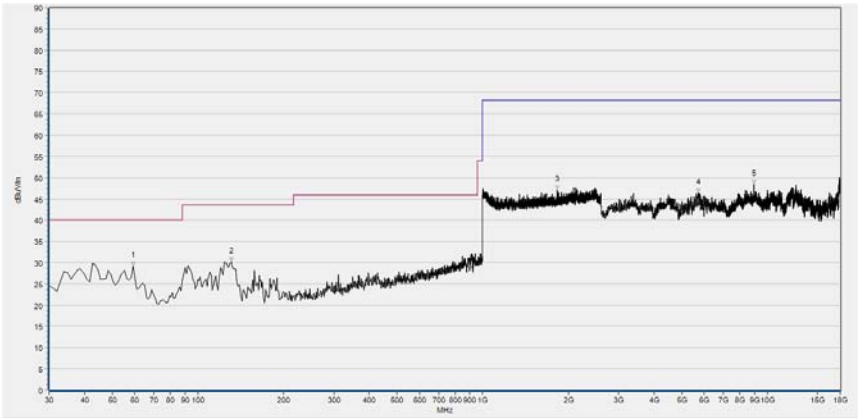
(Antenna Horizontal, 30MHz to 25GHz)



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	28.12	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.010	27.99	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
262.062	27.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2337.513	47.90	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5620.124	46.74	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12704.421	47.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

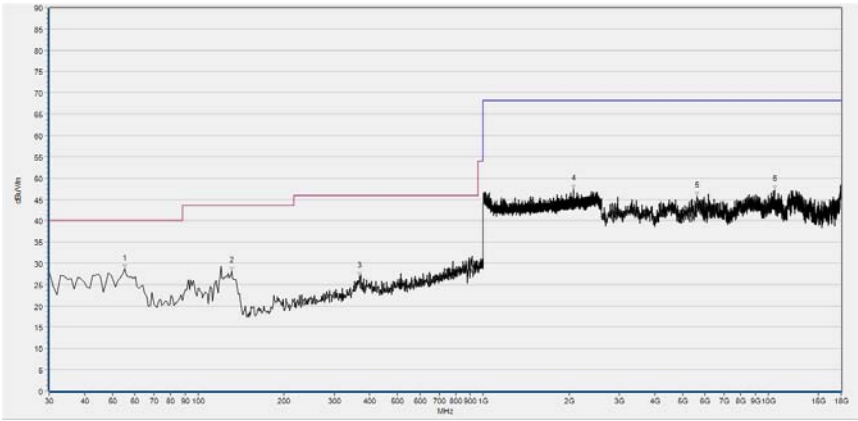
(Antenna Vertical, 30MHz to 25GHz)

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
59.129	29.12	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
130.981	30.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1823.741	47.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5718.704	46.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8944.949	48.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

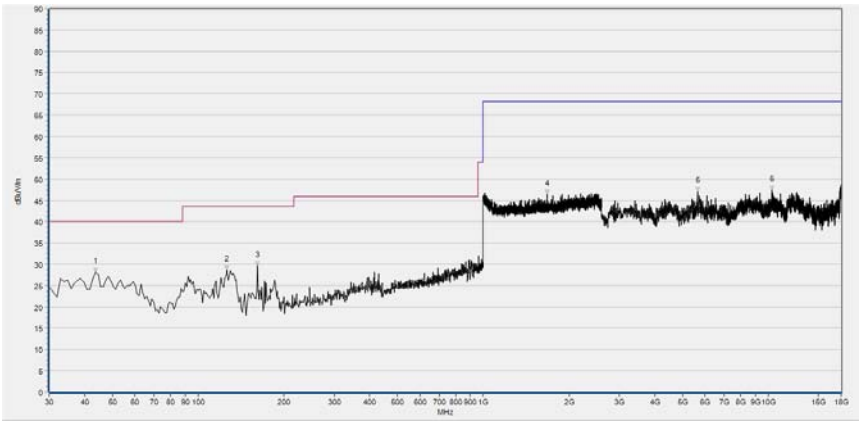
(Antenna Horizontal, 30MHz to 25GHz)



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
55.245	28.74	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
130.981	28.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
368.869	27.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2078.760	47.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5624.605	45.81	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10504.301	47.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

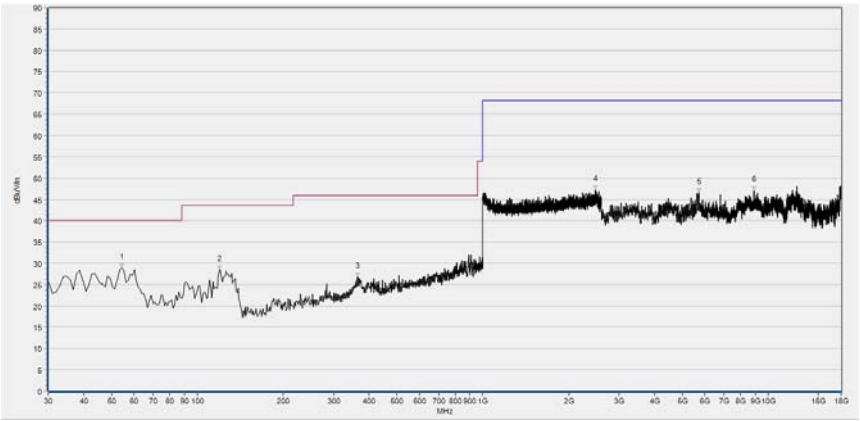
(Antenna Vertical, 30MHz to 25GHz)

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	28.08	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	28.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
161.081	29.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1678.093	46.37	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5638.048	47.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10284.737	47.50	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

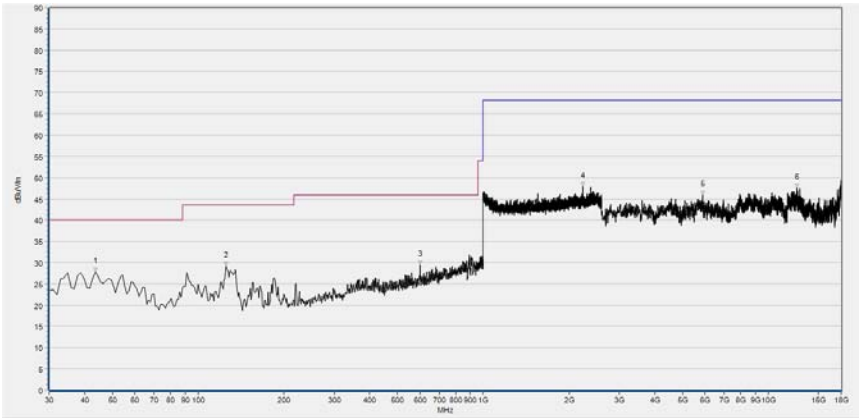
(Antenna Horizontal, 30MHz to 25GHz)



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	29.01	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
119.329	28.54	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
363.043	26.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2479.960	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5714.223	46.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8891.178	47.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

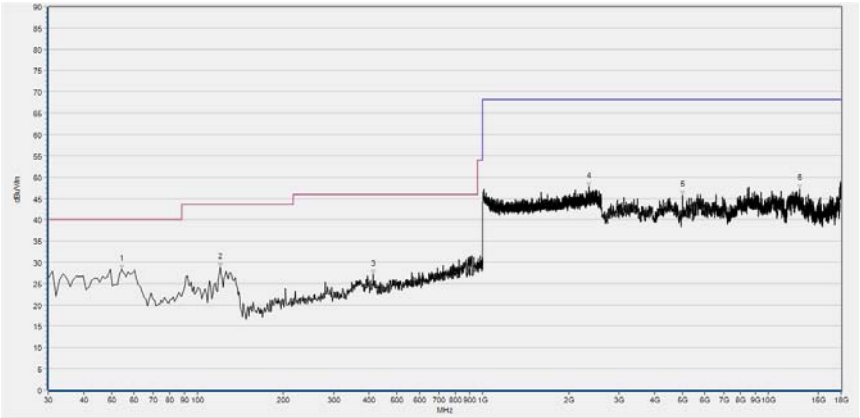
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	27.82	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
125.155	29.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
599.960	29.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2237.212	47.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5871.054	45.91	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12619.284	47.53	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

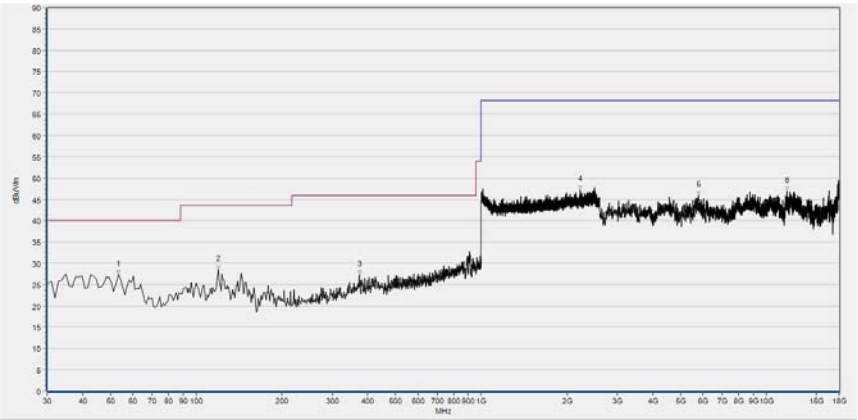


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	28.32	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
120.300	28.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
412.563	27.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2354.051	47.71	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5010.722	45.80	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12883.657	47.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

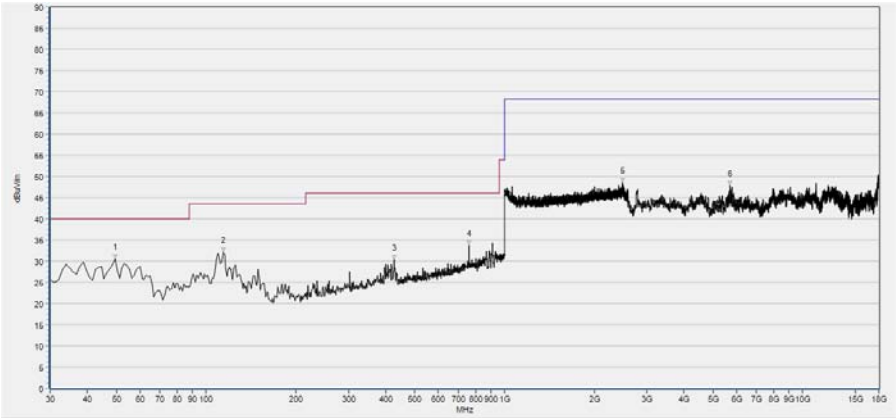
802.11n (HT20) Test mode

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
53.303	27.27	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
119.329	28.53	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
373.724	27.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2224.942	47.24	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5781.436	45.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11848.570	46.88	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

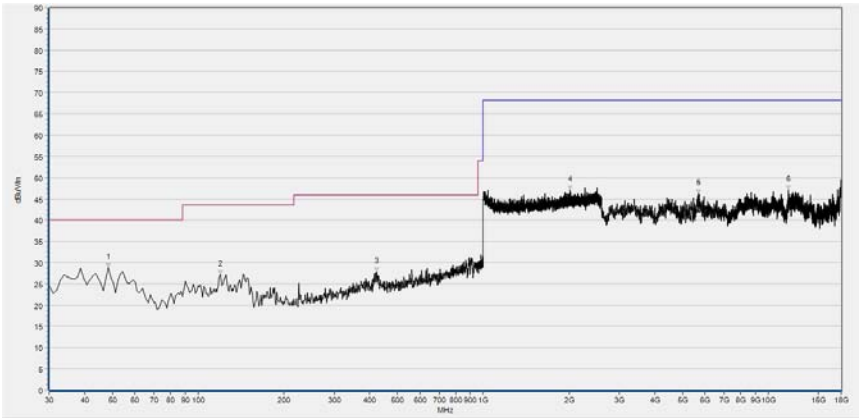
(Antenna Horizontal, 30MHz to 25GHz)



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	30.49	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
114.474	32.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
427.127	30.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
762.112	33.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2484.228	48.50	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5714.223	47.86	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

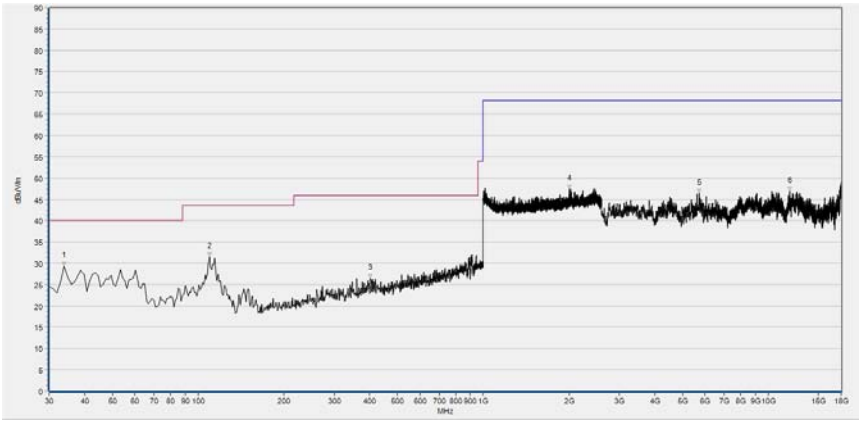
(Antenna Vertical, 30MHz to 25GHz)

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
48.448	28.91	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
119.329	27.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
423.243	27.78	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2019.540	47.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5700.780	46.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11776.875	47.12	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

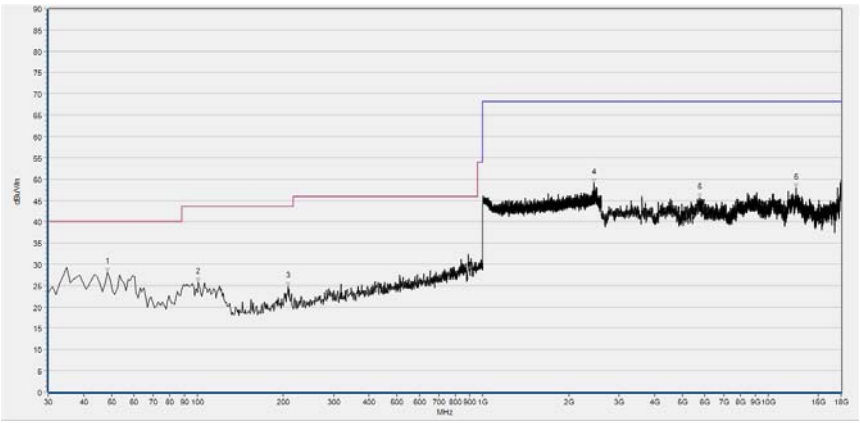
(Antenna Horizontal, 30MHz to 25GHz)



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
33.884	29.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	31.55	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
401.882	26.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2001.400	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5714.223	46.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11853.051	46.86	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

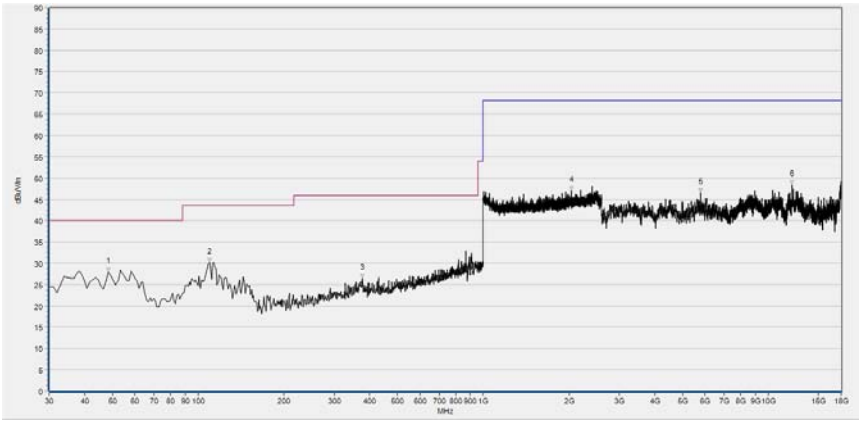
(Antenna Vertical, 30MHz to 25GHz)

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
48.448	28.23	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
100.881	25.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
207.688	24.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2446.882	49.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5736.627	45.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12525.185	47.93	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

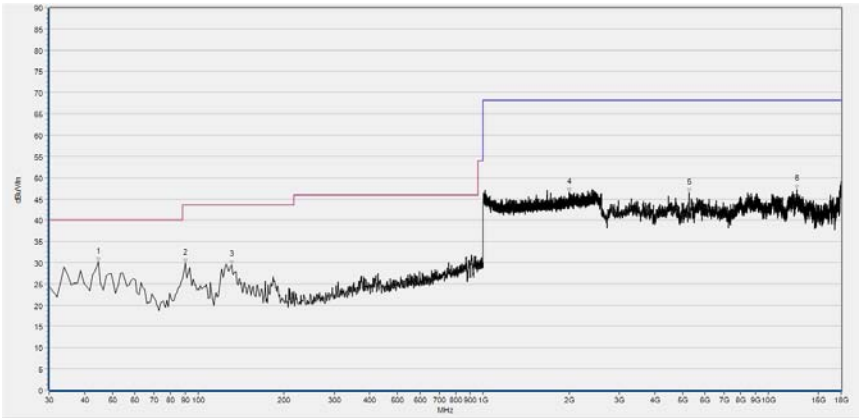
(Antenna Horizontal, 30MHz to 25GHz)



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	27.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	30.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
376.637	26.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2037.146	47.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5776.955	46.55	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12126.385	48.43	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

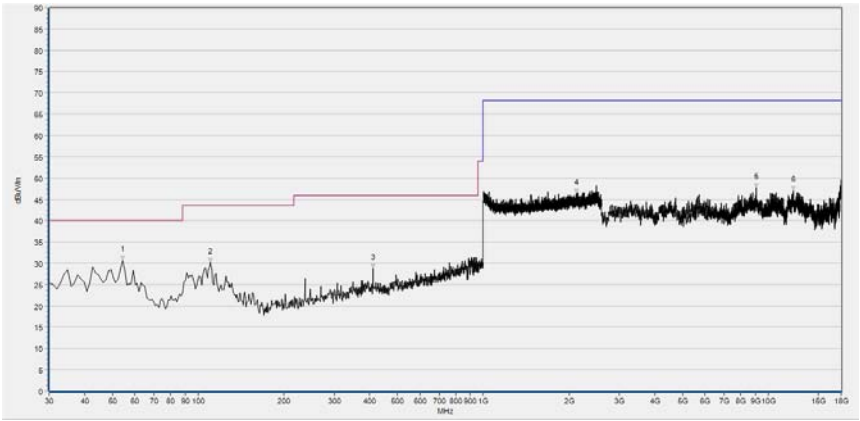
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	30.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	29.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
130.981	29.57	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1998.199	46.58	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5261.652	46.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12614.803	47.21	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

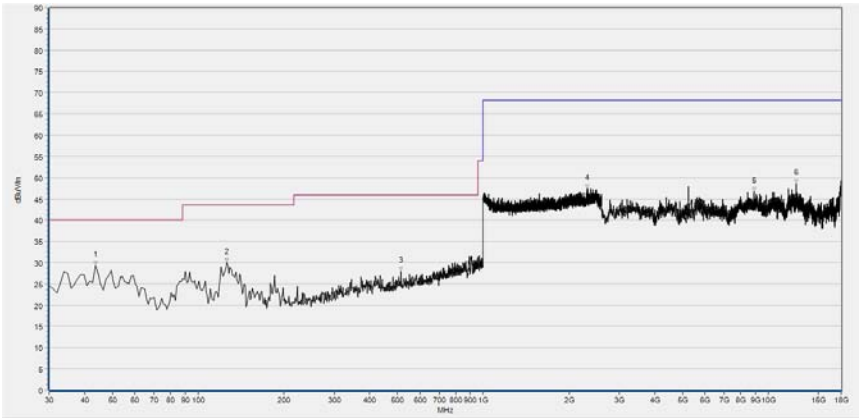
(Antenna Horizontal, 30MHz to 25GHz)



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	30.61	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	30.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
410.621	28.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2123.575	46.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9061.452	47.83	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12247.369	47.11	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

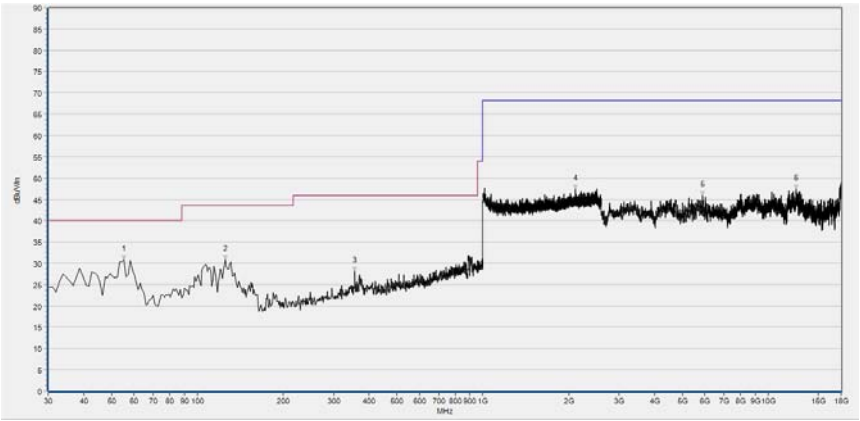
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 60



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	29.35	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	30.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
515.485	27.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2312.437	47.38	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
8886.697	46.74	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12534.147	48.59	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

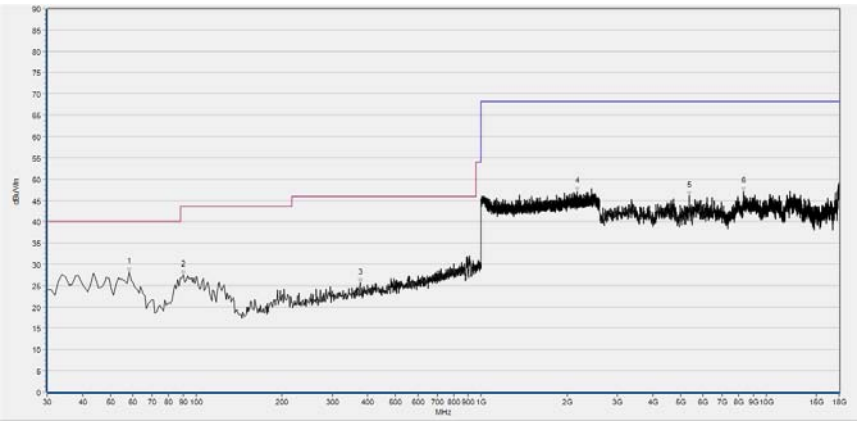
(Antenna Horizontal, 30MHz to 25GHz)



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
55.245	30.85	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	30.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
356.246	28.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2108.103	47.39	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5880.016	45.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12484.857	47.39	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

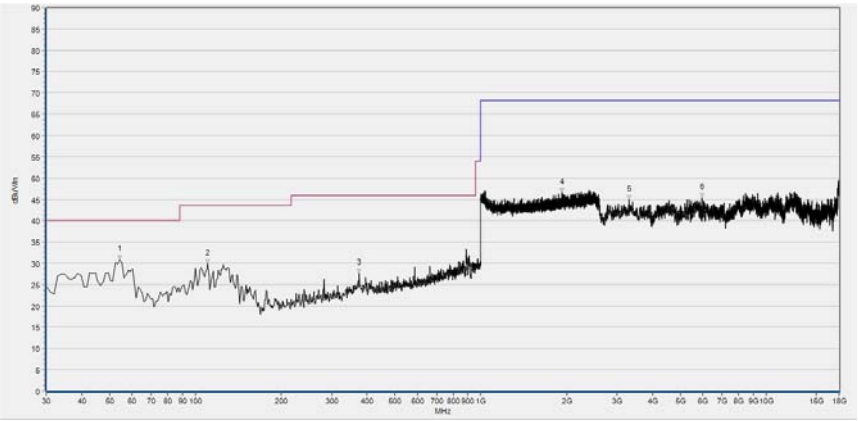
(Antenna Vertical, 30MHz to 25GHz)

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
58.158	28.23	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	27.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
375.666	25.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2173.191	47.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5364.713	46.01	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
8304.181	47.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

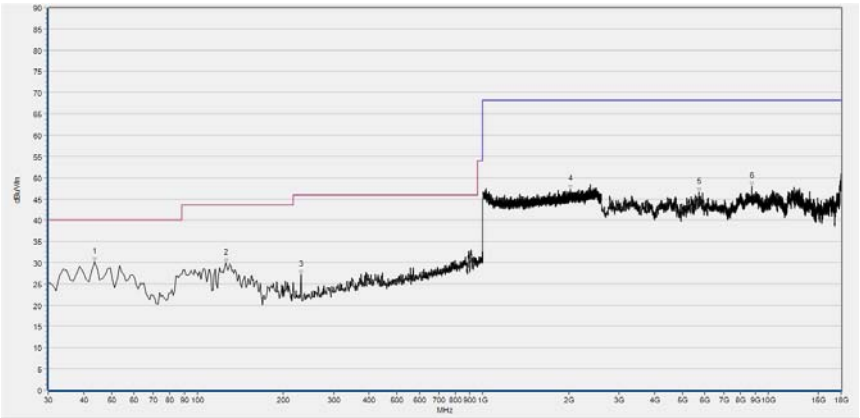
(Antenna Horizontal, 30MHz to 25GHz)



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	30.87	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	29.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
374.695	27.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1929.376	46.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3307.982	44.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5938.268	45.44	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

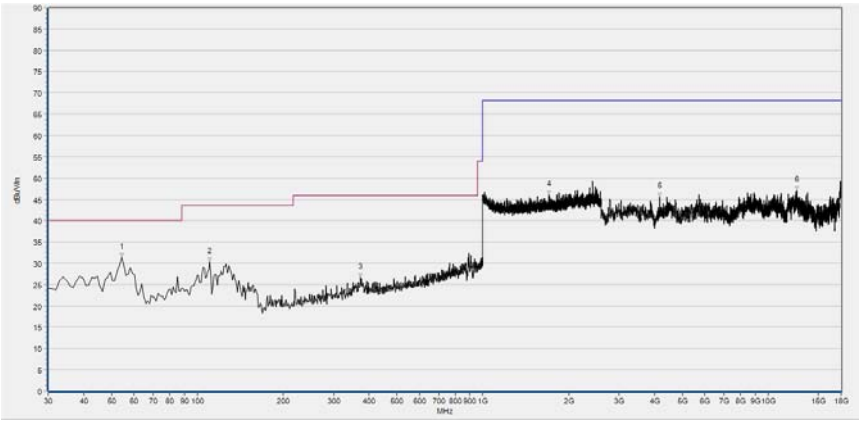
(Antenna Vertical, 30MHz to 25GHz)

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	30.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	29.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
230.991	27.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2028.076	47.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5705.261	46.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8734.347	47.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

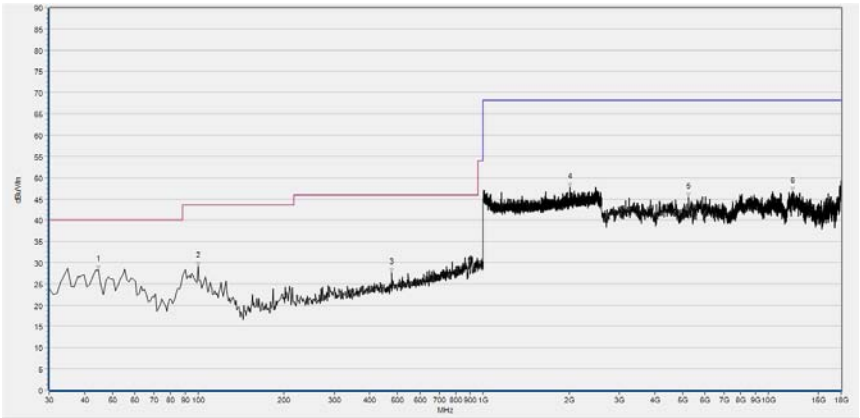
(Antenna Horizontal, 30MHz to 25GHz)



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	31.28	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	30.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
372.753	26.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1707.436	46.01	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
4159.352	45.66	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12619.284	47.02	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

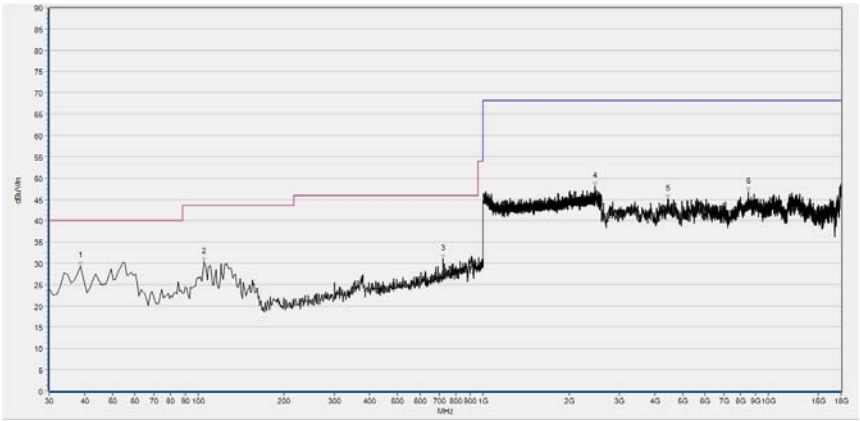
(Antenna Vertical, 30MHz to 25GHz)

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	28.31	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	29.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
477.618	27.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2015.272	47.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5257.171	45.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12162.232	46.83	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

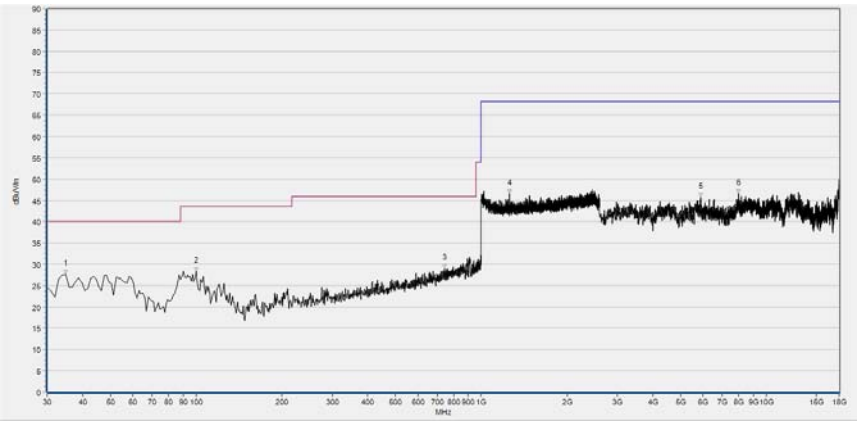
(Antenna Horizontal, 30MHz to 25GHz)



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	29.26	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
104.765	30.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
724.244	30.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2469.823	48.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4432.687	45.05	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8514.783	46.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

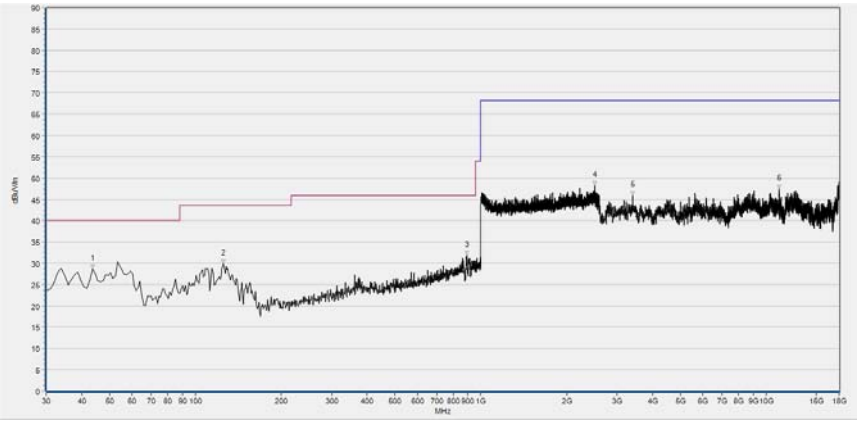
(Antenna Vertical, 30MHz to 25GHz)

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
34.855	27.70	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	28.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
744.635	28.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1255.552	46.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5884.497	45.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8008.442	46.67	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

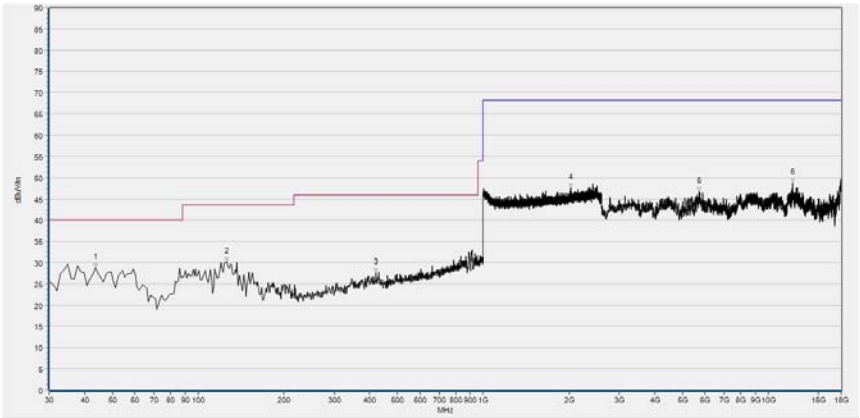
(Antenna Horizontal, 30MHz to 25GHz)



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	28.63	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	29.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
893.193	31.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2507.703	48.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3402.080	45.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11082.336	47.43	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

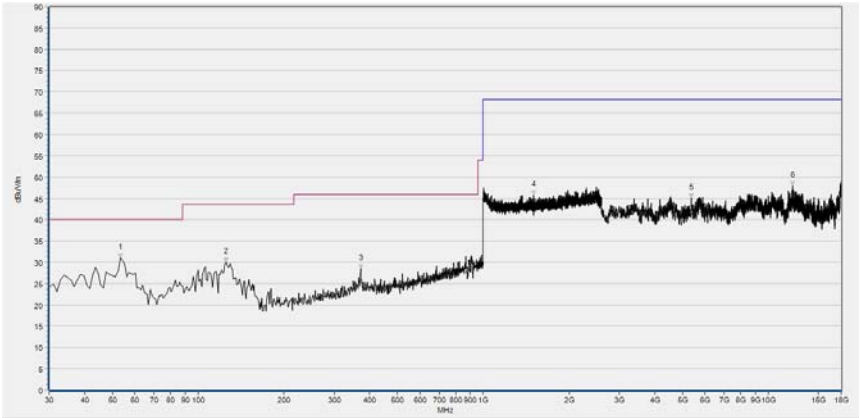
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	28.85	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	30.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
421.301	27.69	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2023.808	47.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5709.742	46.69	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12162.232	48.77	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

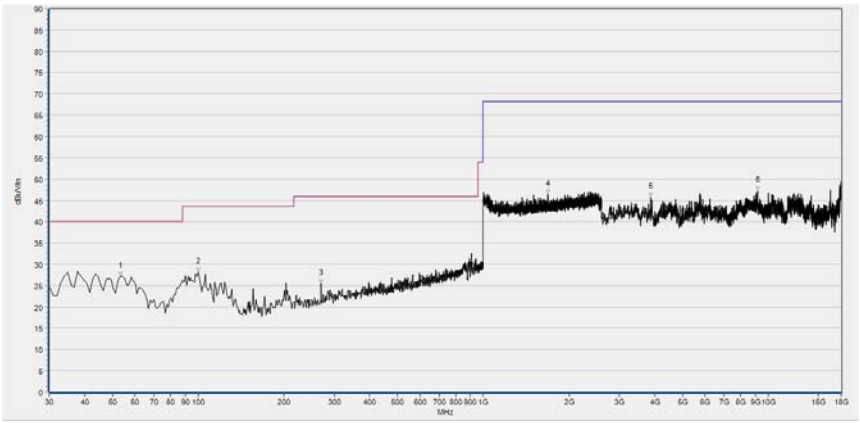
(Antenna Horizontal, 30MHz to 25GHz)



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
53.303	31.08	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
125.155	30.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
371.782	28.57	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1501.501	45.79	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
5373.675	45.01	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12180.156	47.96	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

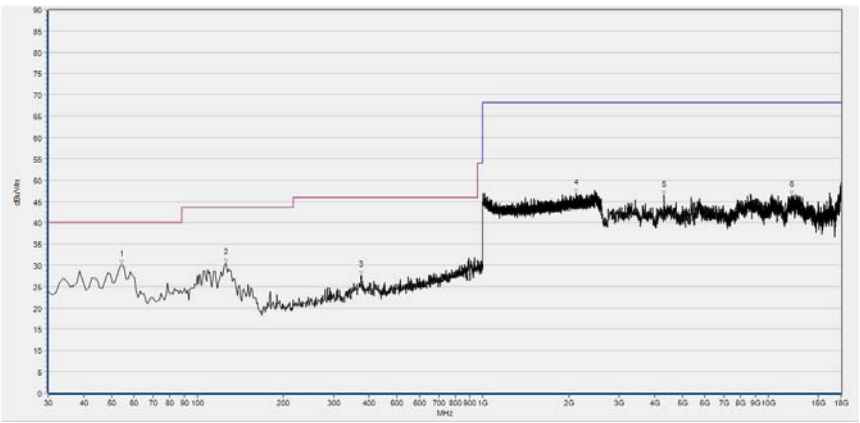
(Antenna Vertical, 30MHz to 25GHz)

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
53.303	27.19	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	28.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
269.830	25.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1683.428	46.39	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3868.094	45.71	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
9151.070	47.28	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

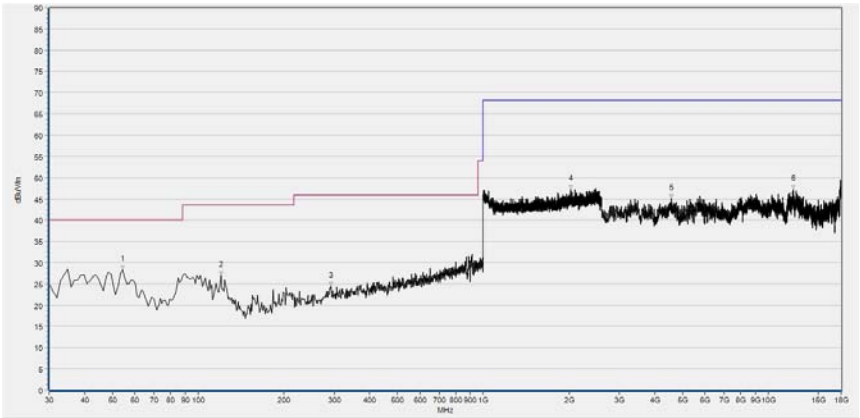
(Antenna Horizontal, 30MHz to 25GHz)



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	30.17	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
126.126	30.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
373.724	27.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2122.508	46.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4320.664	46.45	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12090.538	46.50	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

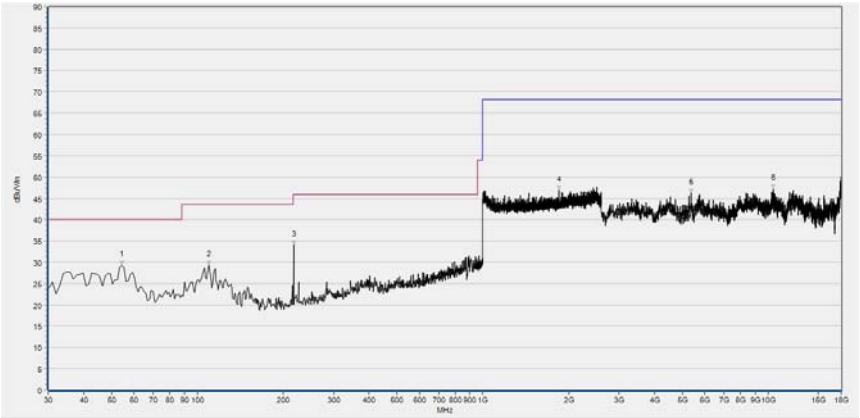
(Antenna Vertical, 30MHz to 25GHz)

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
54.274	28.29	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
120.300	27.06	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
292.162	24.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2029.143	47.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4576.075	45.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
12265.293	47.29	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)

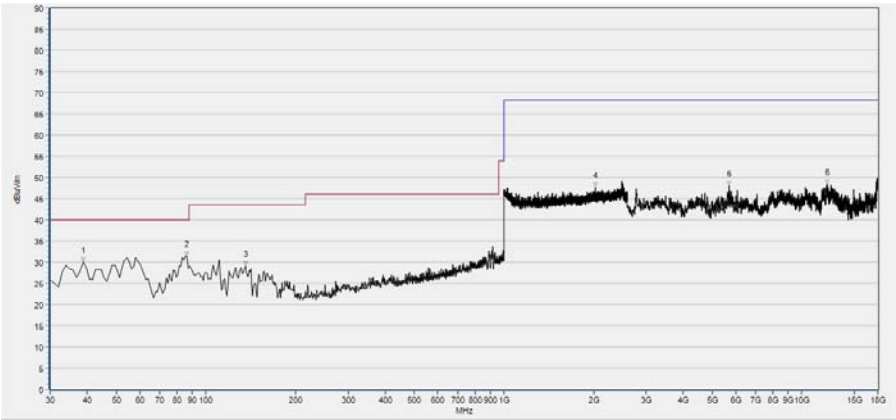


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	29.32	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	29.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.397	33.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1852.551	46.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5360.232	46.18	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
10437.087	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

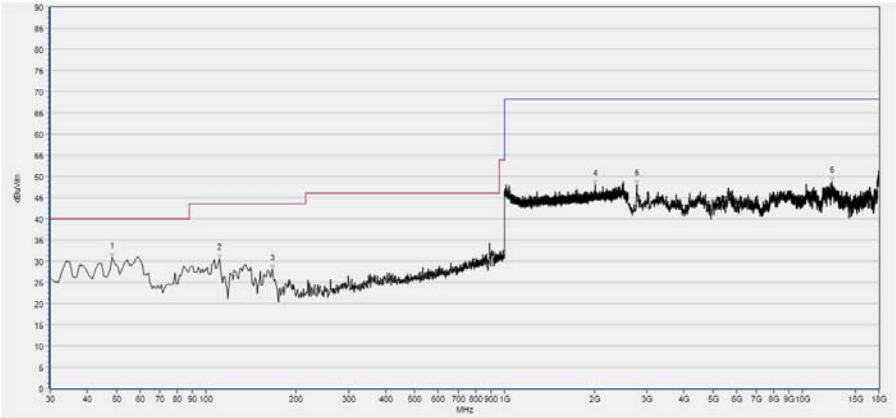
802.11n (HT40) Test mode

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
38.739	30.07	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
86.316	31.34	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
135.836	29.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2025.942	47.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5700.780	48.04	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12144.309	48.48	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

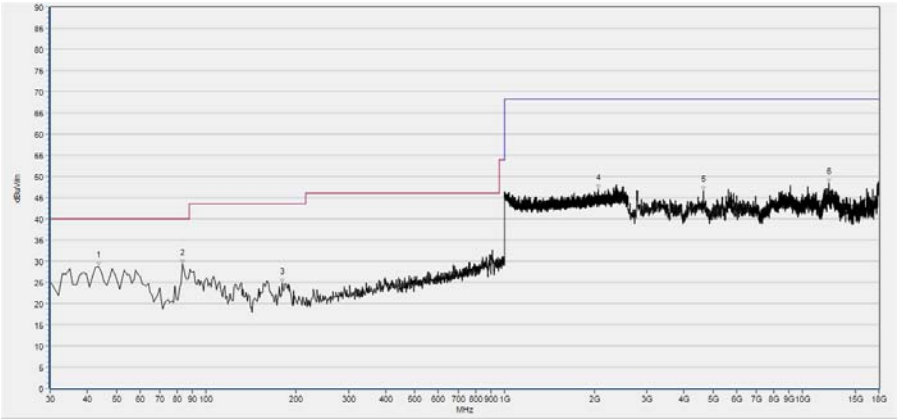
(Antenna Horizontal, 30MHz to 25GHz)



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	30.84	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	30.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
166.907	28.09	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2020.073	48.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
2774.755	47.98	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12529.666	48.68	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

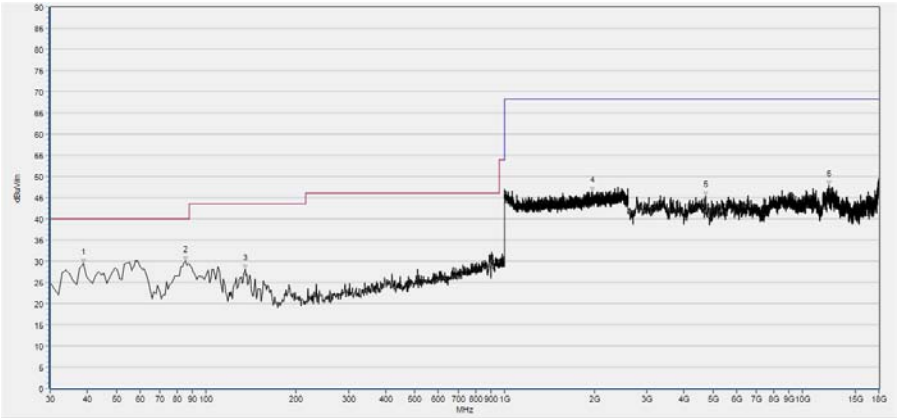
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	28.74	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
83.403	29.26	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
179.530	24.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2067.022	47.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4647.770	46.64	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
12238.408	48.42	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

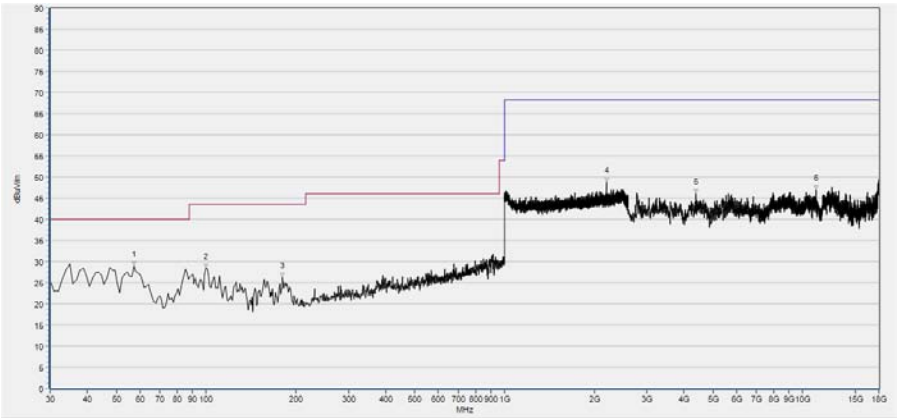
(Antenna Horizontal, 30MHz to 25GHz)



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	29.50	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
85.345	30.08	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
134.865	28.00	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1972.591	46.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4723.945	45.41	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
12220.484	47.85	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

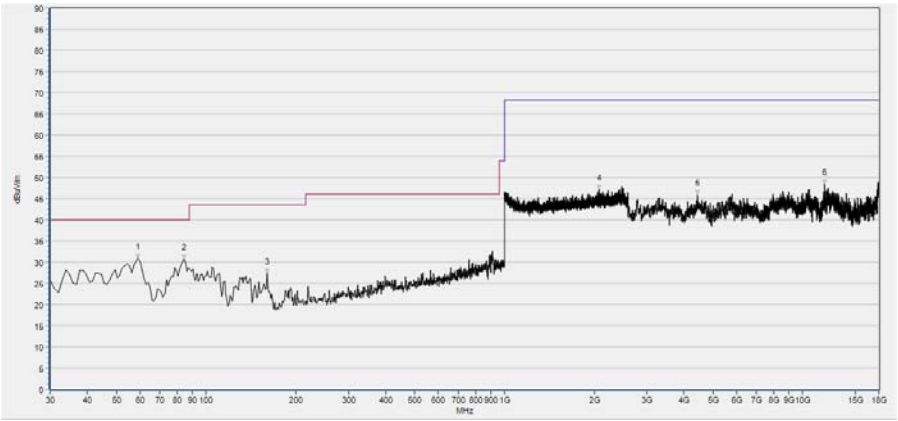
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 54



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
57.187	28.93	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
99.910	28.43	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
180.501	26.24	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2195.599	48.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4387.878	46.08	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
11082.336	46.88	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

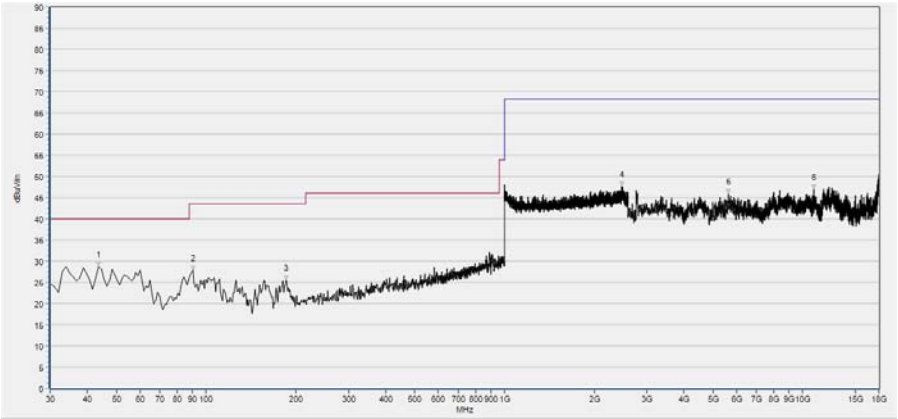
(Antenna Horizontal, 30MHz to 25GHz)



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
59.129	30.97	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
84.374	30.69	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
160.110	27.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
2071.824	47.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4446.129	45.84	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11857.532	48.34	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

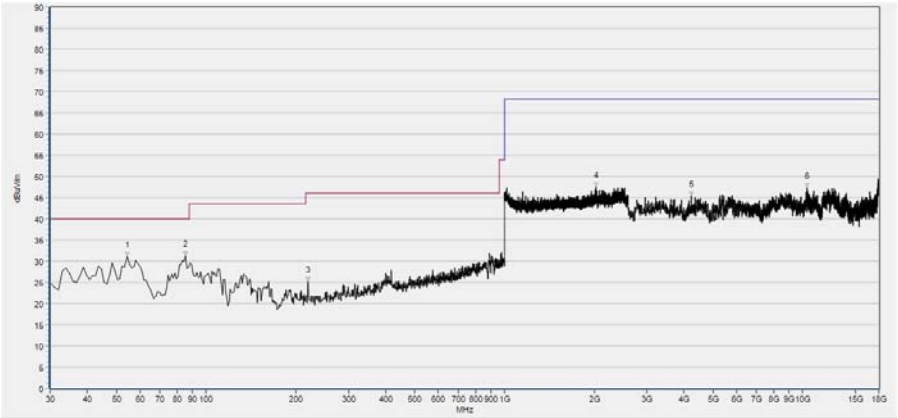
(Antenna Vertical, 30MHz to 25GHz)

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	28.73	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
90.200	27.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
185.355	25.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2475.158	47.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5629.086	45.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10903.101	46.89	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS

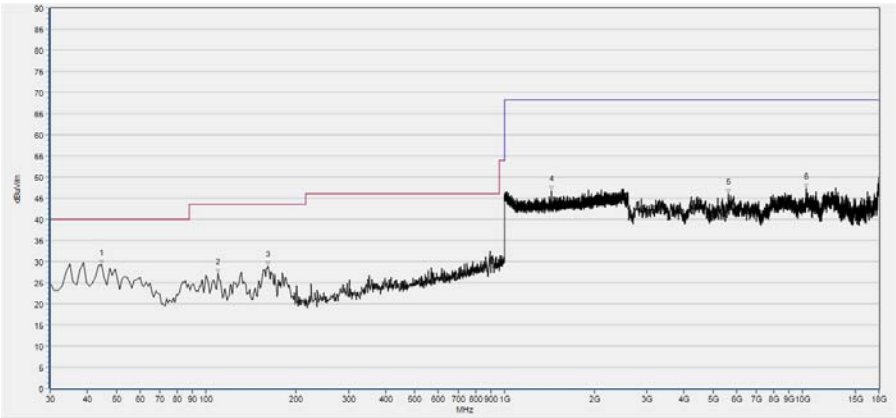
(Antenna Horizontal, 30MHz to 25GHz)



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	31.09	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
85.345	31.26	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
219.339	25.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2027.543	47.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4235.527	45.34	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
10347.469	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

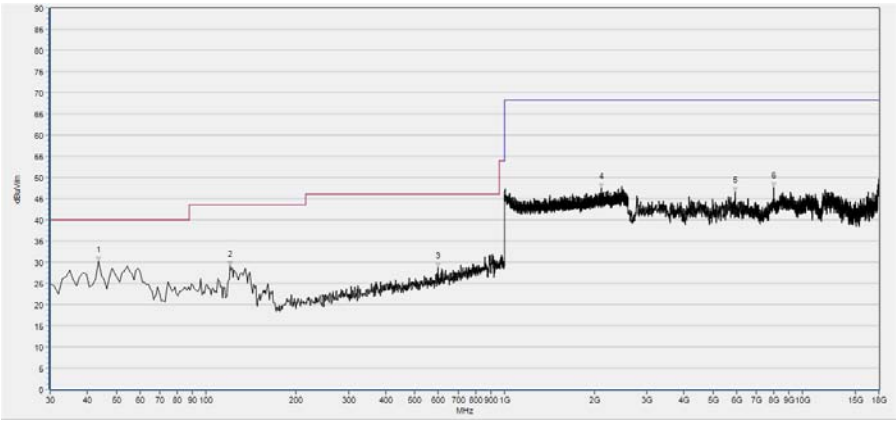
(Antenna Vertical, 30MHz to 25GHz)

Plots for Channel = 102



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	29.32	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
109.620	27.18	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
161.081	28.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1440.147	46.71	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
5633.567	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10280.256	47.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

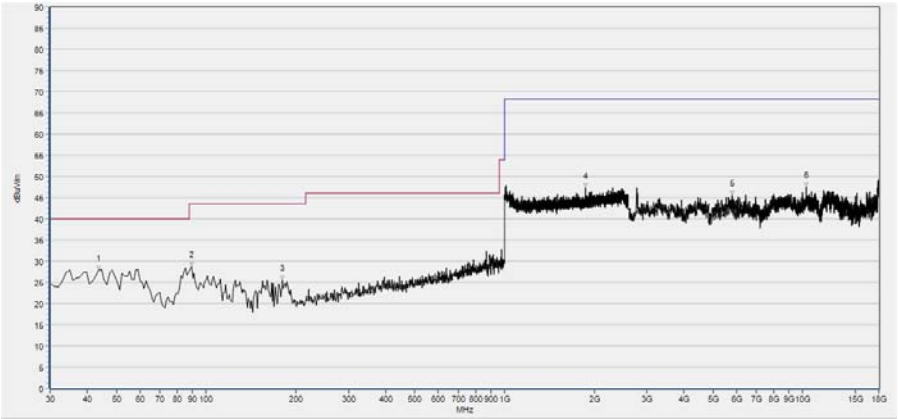
(Antenna Horizontal, 30MHz to 25GHz)



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	30.25	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
120.300	29.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
598.018	28.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2116.639	47.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5929.306	46.53	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8012.923	47.65	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

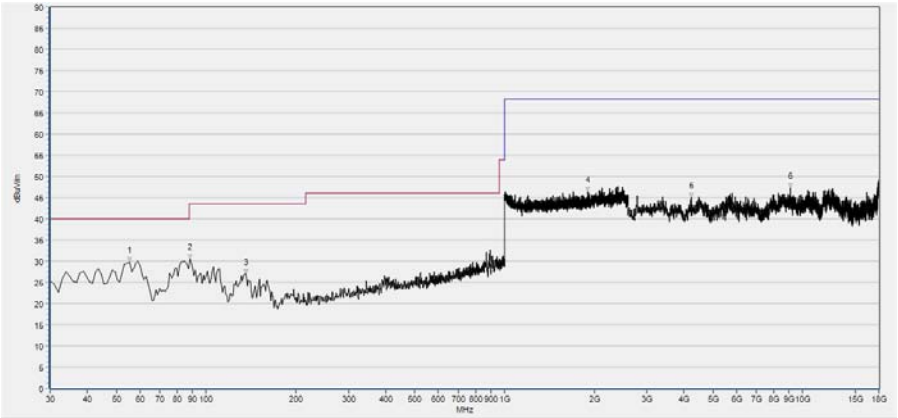
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	27.82	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
89.229	28.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
180.501	25.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1874.425	47.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5812.803	45.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10271.294	47.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

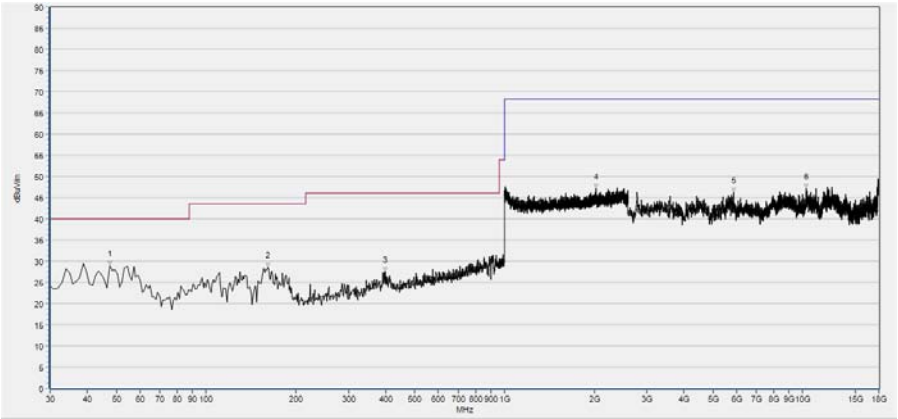
(Antenna Horizontal, 30MHz to 25GHz)



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
55.245	29.78	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
88.258	30.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
135.836	26.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1906.969	46.42	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4226.565	44.94	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
9110.742	47.30	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

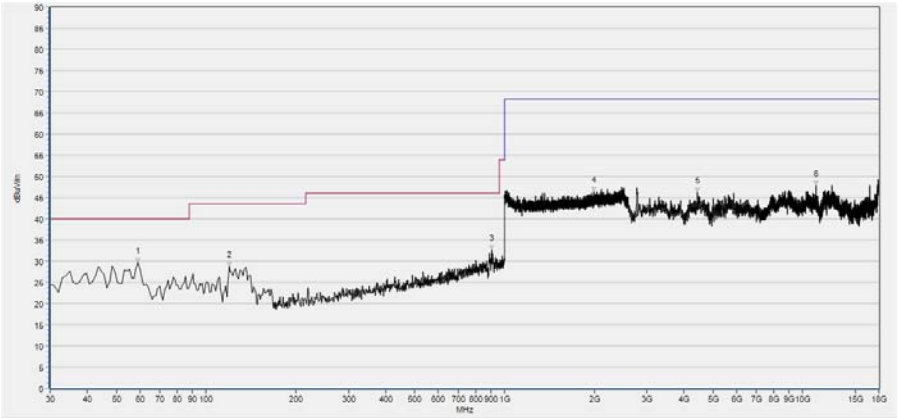
(Antenna Vertical, 30MHz to 25GHz)

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
47.477	28.99	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
161.081	28.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
397.027	27.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2025.408	47.21	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5875.535	46.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10257.852	47.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

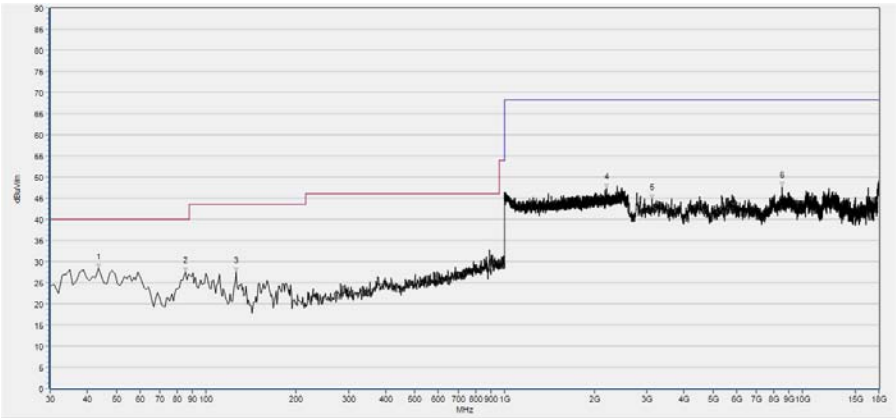
(Antenna Horizontal, 30MHz to 25GHz)



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
59.129	29.63	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
119.329	28.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
908.729	32.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1990.197	46.46	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4441.648	46.22	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11059.932	47.81	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

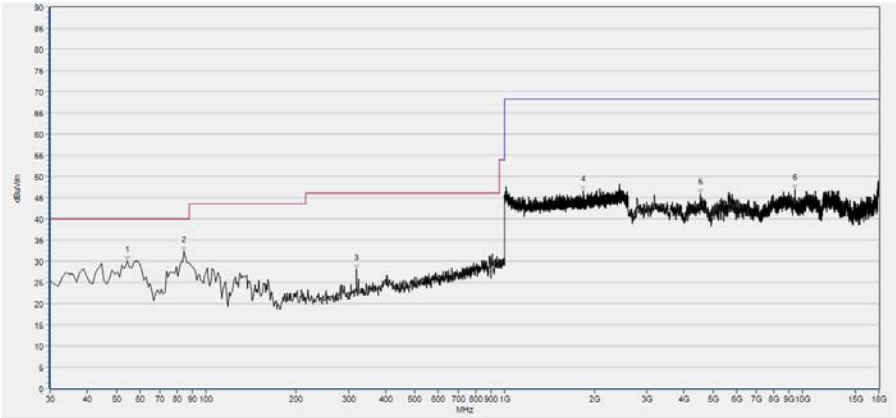
(Antenna Vertical, 30MHz to 25GHz)

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
43.594	28.39	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
85.345	27.54	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
126.126	27.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
2204.668	47.34	N/A	N/A	74.00	N/A	N/A	Horizontal	PASS
3128.746	44.87	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8519.264	47.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

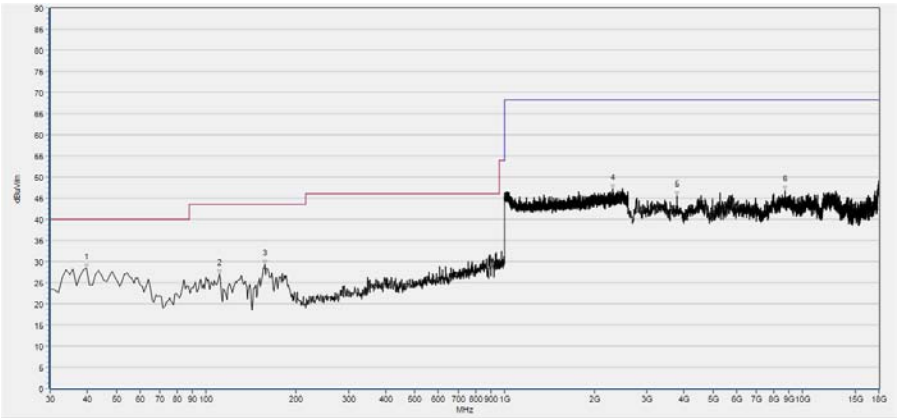
(Antenna Horizontal, 30MHz to 25GHz)



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	30.00	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
84.374	32.40	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
319.349	27.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1838.680	46.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4531.266	45.81	N/A	N/A	74.00	N/A	N/A	Vertical	PASS
9442.328	46.97	N/A	N/A	74.00	N/A	N/A	Vertical	PASS

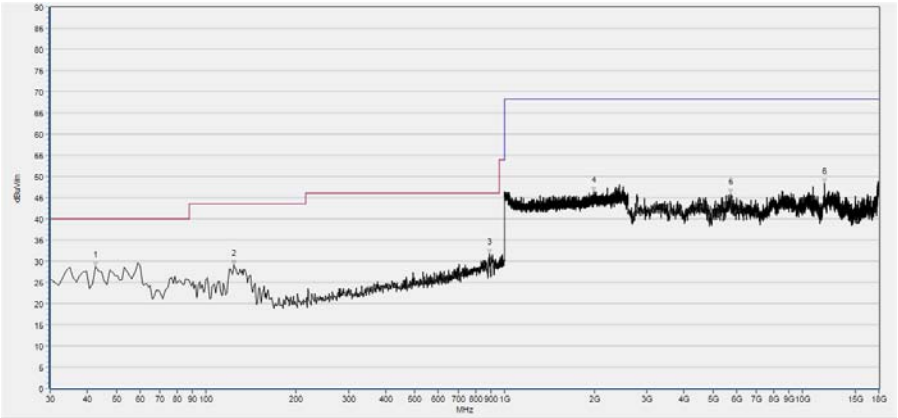
(Antenna Vertical, 30MHz to 25GHz)

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
44.565	39.710	28.32	N/A	N/A	40.00	N/A	Horizontal	PASS
205.746	110.591	27.05	N/A	N/A	43.50	N/A	Horizontal	PASS
1719.173	157.197	29.30	N/A	N/A	43.50	N/A	Horizontal	PASS
3809.842	2309.770	47.18	N/A	68.23	N/A	N/A	Horizontal	PASS
8886.697	3782.957	45.56	N/A	74.00	N/A	N/A	Horizontal	PASS
18422.044	8738.828	46.78	N/A	68.23	N/A	N/A	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	28.79	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
124.184	29.13	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
893.193	31.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1993.931	46.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5718.704	45.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11857.532	48.45	N/A	N/A	74.00	N/A	N/A	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	±2.22dB
Power spectral density (PSD)	±2.22dB
Bandwidth	±5%
Restricted Frequency Bands	±5%
Radiated Emission	±2.95dB
Conducted Emission	±2.44dB

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

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
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.

4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	2018.04.17	2019.04.16
Attenuator 1	(N/A)	10dB	Resnet	2018.04.17	2019.04.16
Attenuator 2	(N/A)	3dB	Resnet	2018.04.17	2019.04.16
EXA Signal Analzyer	MY53470836	N9010A	Agilent	2017.12.03	2018.12.02
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2018.04.17	2019.04.16
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	(N/A)	HUT705P	CHONGQING HANBA EXPERIMENTAL EQUIPMENT CO.,LTD	2018.04.17	2019.04.16

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	2018.05.08	2019.05.07
Pulse Limiter (20dB)	9391	VTSD 9561-D	Schwarzbeck	2018.05.08	2019.05.07
Coaxial cable(BNC)	CB01	EMC01	Morlab	N/A	N/A

4.3Auxiliary 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	2018.05.08	2019.05.07
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2018.05.08	2019.05.07
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
Coaxial cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2018.05.08	2019.05.07
18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2018.05.08	2019.05.07
26GHz -40GHz pre-Amplifier	MA05	BBV9721	Rohde& Schwarz	2018.05.08	2019.05.07
Anechoic Chamber	N/A	9m*6m*6m	CRT	2017.11.19	2020.11.18

END OF REPORT