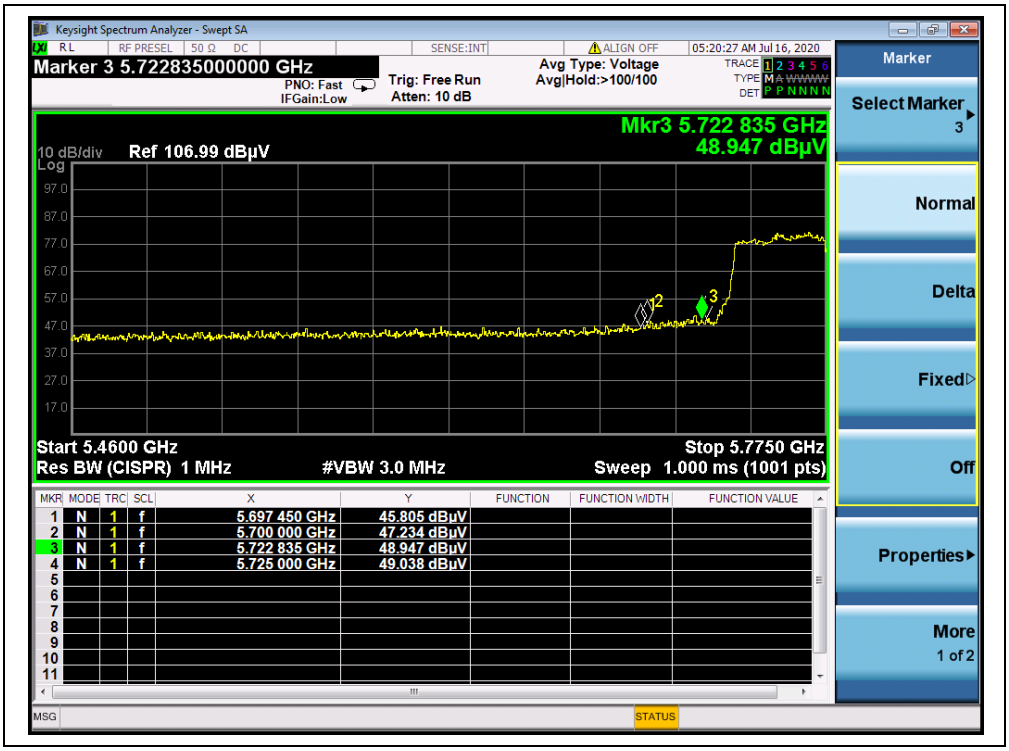
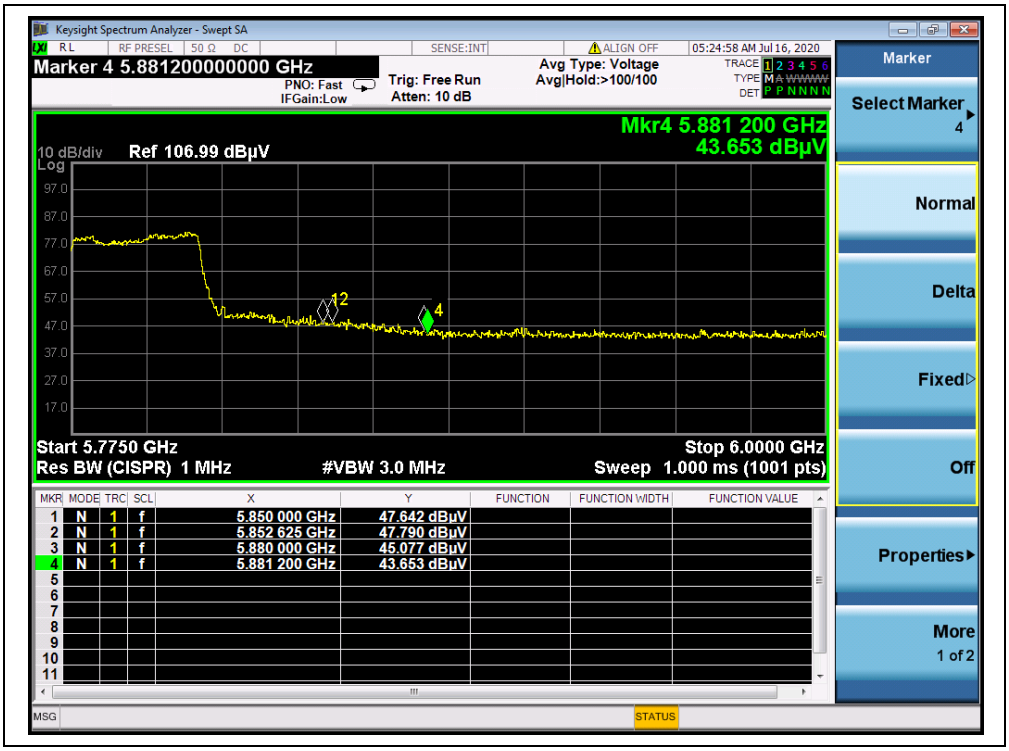


(PEAK, Channel 155, 802.11ac (VHT80))



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

2.9. Radiated Emission

2.9.1.Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.
The following formula is used to convert the equipment isotropic radiated power(eirp) to field strength (dBμV/m);

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

where P is the EIRP in Watts

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

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

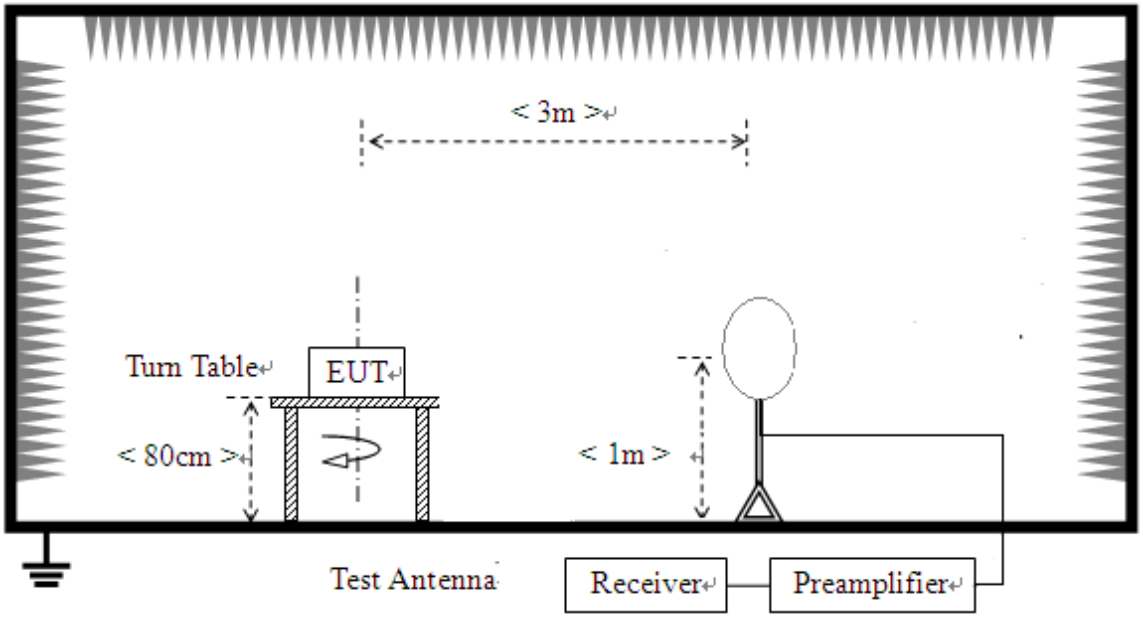
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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

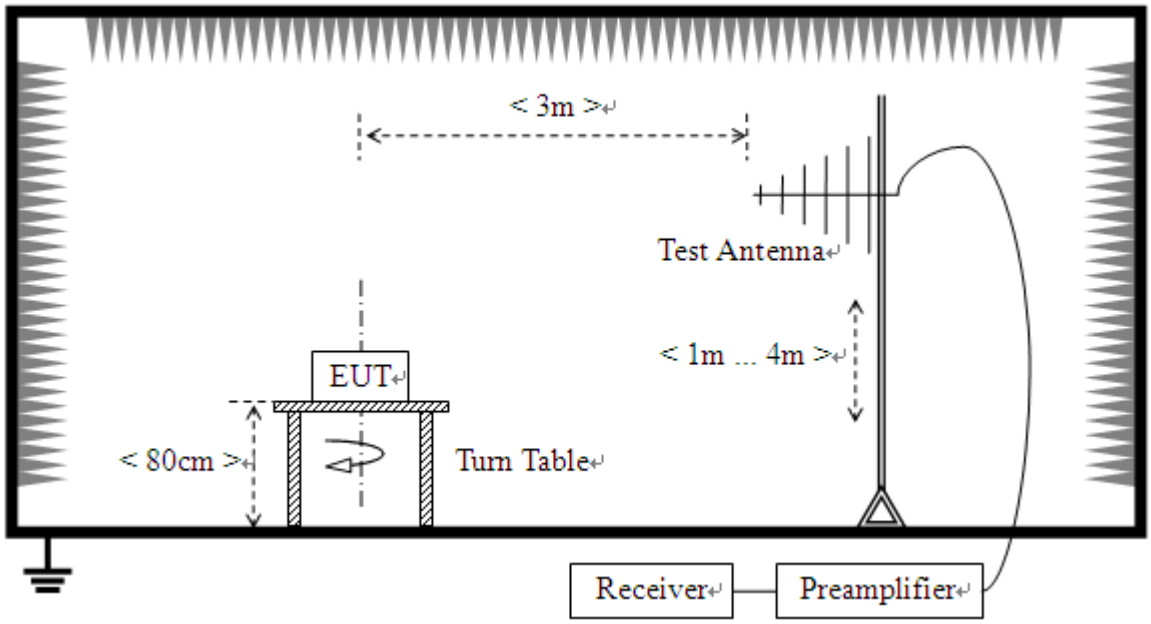
2.9.2.Test Description

Test Setup:

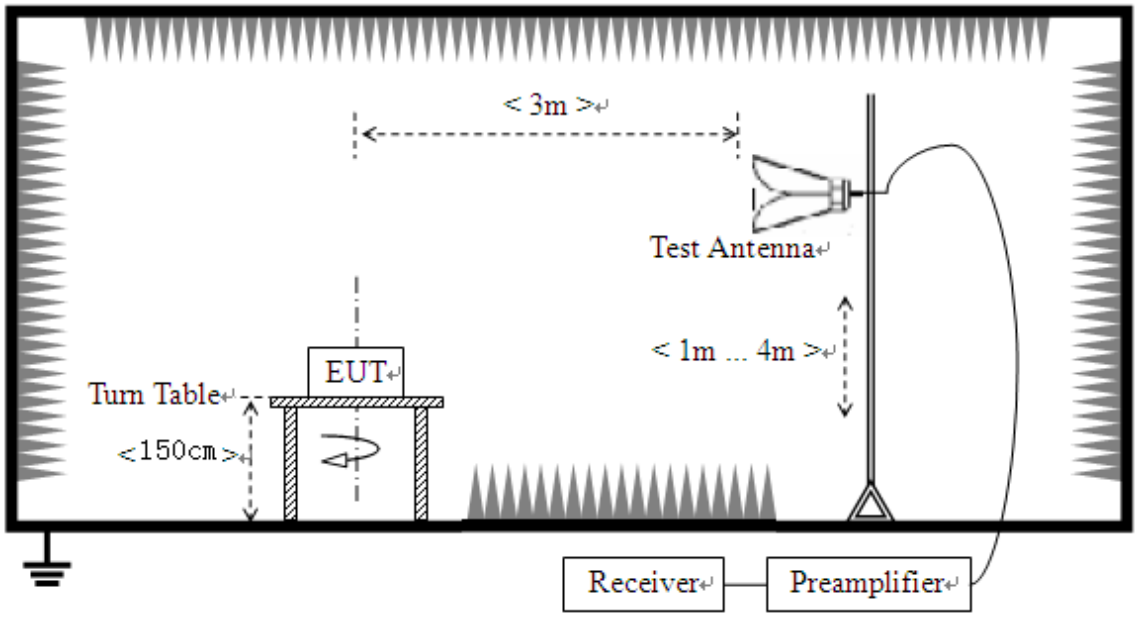
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



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

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

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

For the radiated emission test above 1GHz:

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

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

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.

2.9.3.Test Result

According to ANSI C63.4 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

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

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3m

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

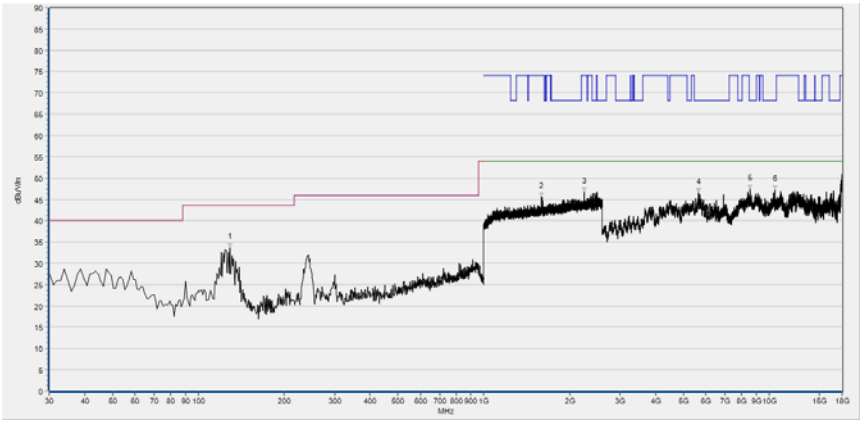
Note 1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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

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

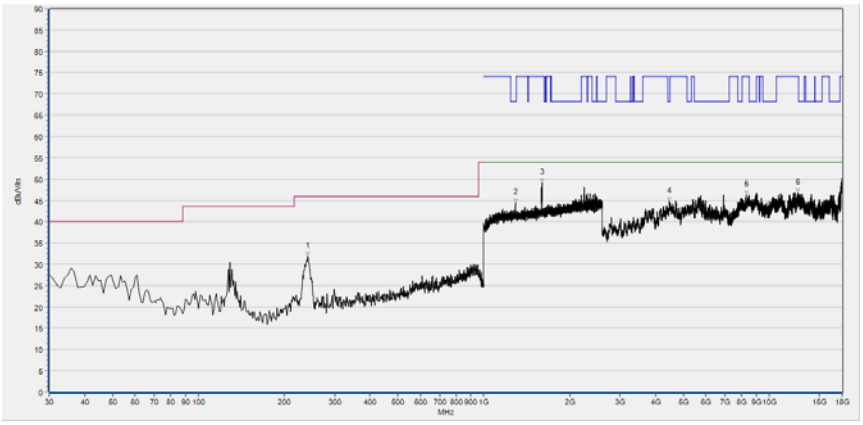
802.11a Mode

Plot for Channel 36



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
129.039	33.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1592.731	45.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2243.615	46.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.810	46.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8579.476	47.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10443.249	47.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

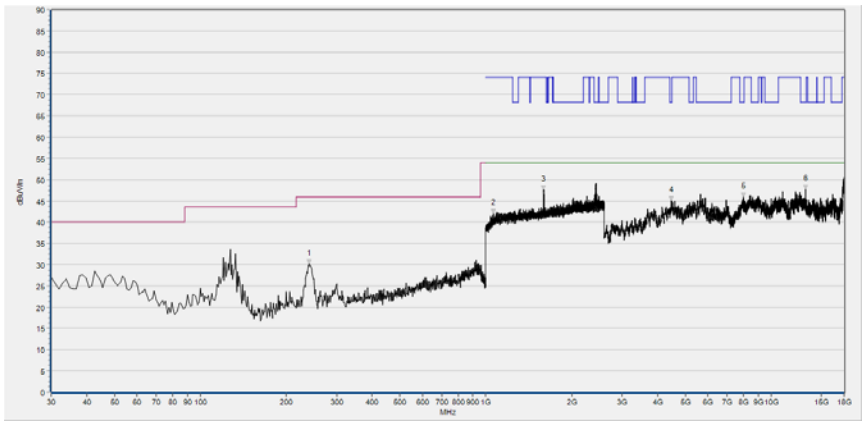
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
241.672	31.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1289.163	44.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1597.533	49.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4473.015	44.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8292.979	46.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12605.841	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

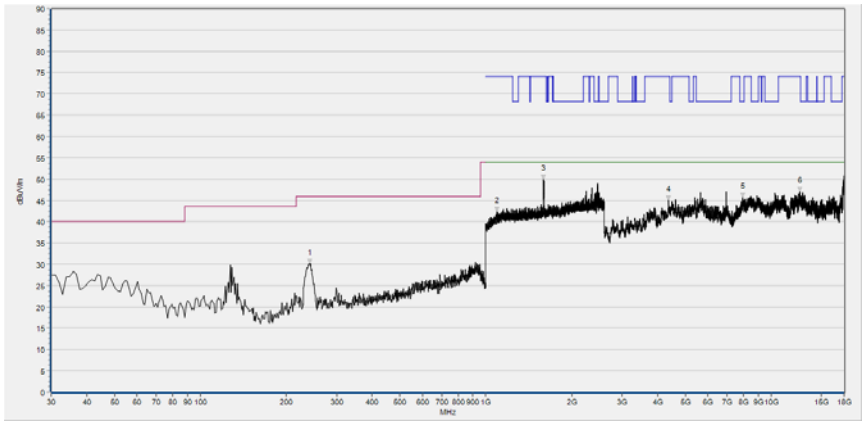
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.701	30.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1065.622	42.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1594.865	47.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4469.934	45.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7975.675	45.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13184.997	47.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

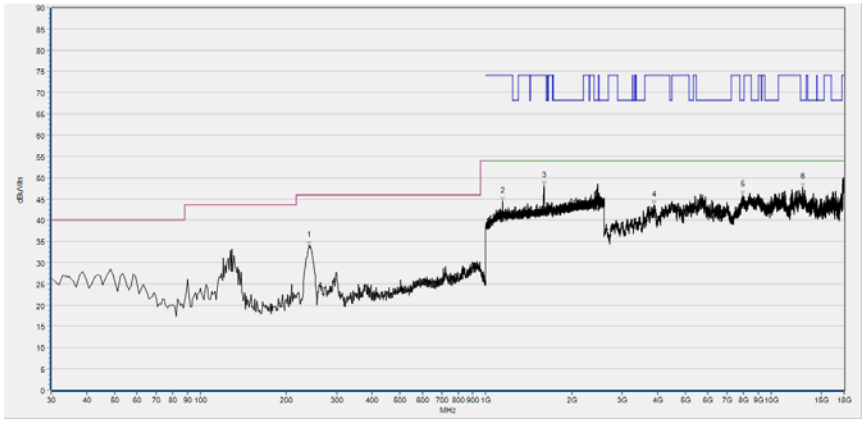
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
241.672	30.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1096.032	42.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1593.264	49.90	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4371.354	45.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7938.708	45.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12618.164	47.02	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

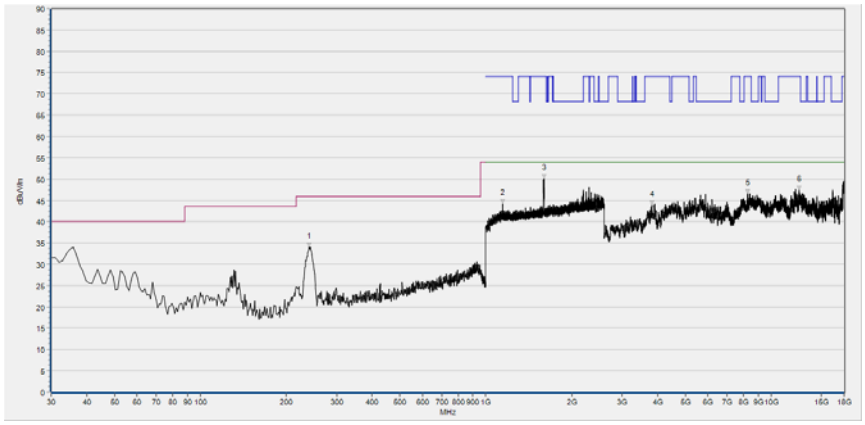
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.701	33.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1146.716	44.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1597.533	48.15	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3878.456	43.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
7951.030	45.94	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12898.500	47.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

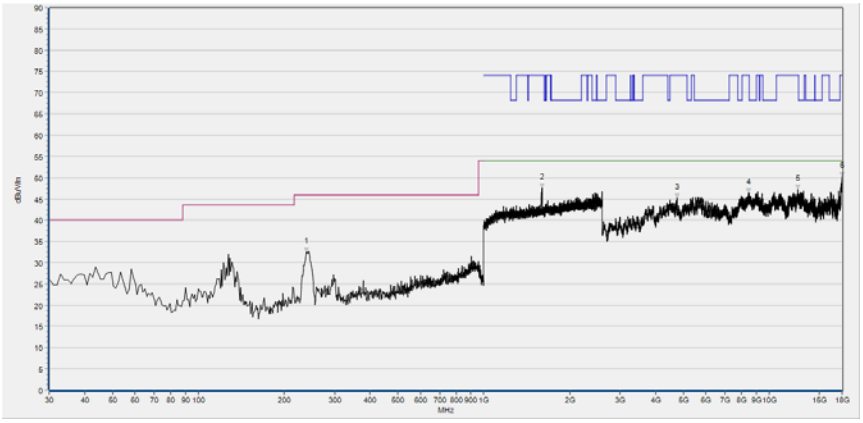
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.701	33.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1147.783	44.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
1598.600	50.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3810.682	43.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8280.656	46.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12513.423	47.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

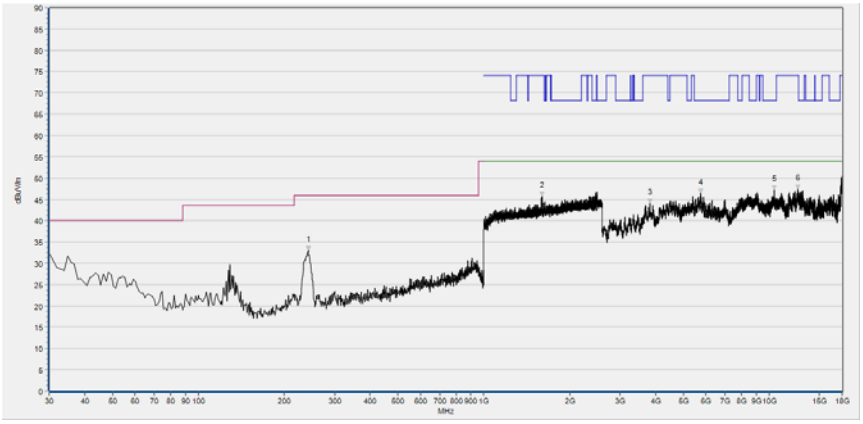
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
238.759	32.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1598.600	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4750.270	45.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8447.009	46.42	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12587.357	47.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
17953.791	50.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

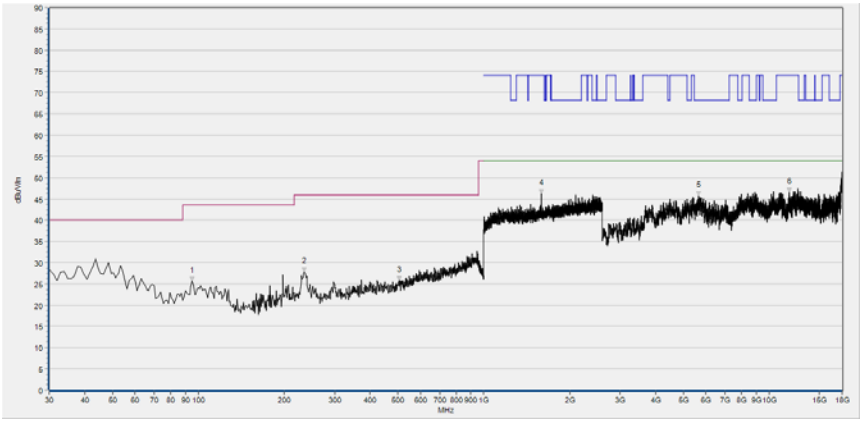
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
242.643	33.01	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1595.398	45.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3819.924	44.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5757.632	46.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10437.087	47.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12608.922	47.36	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

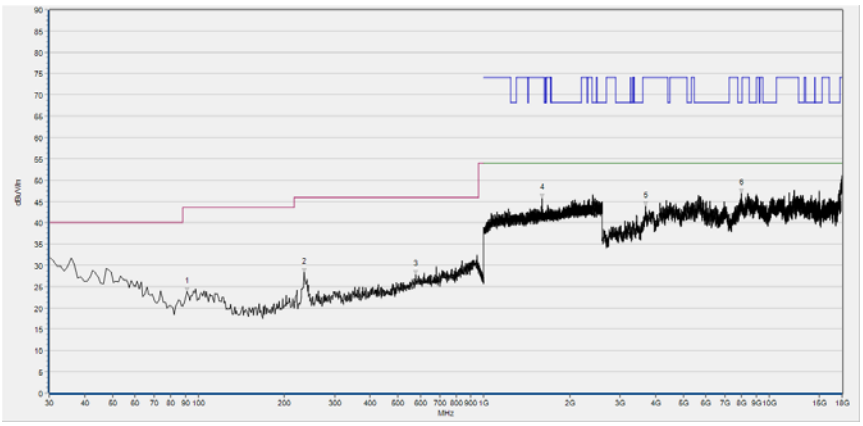
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
95.055	25.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
234.875	27.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
504.805	25.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1592.731	46.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5655.971	45.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11727.866	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

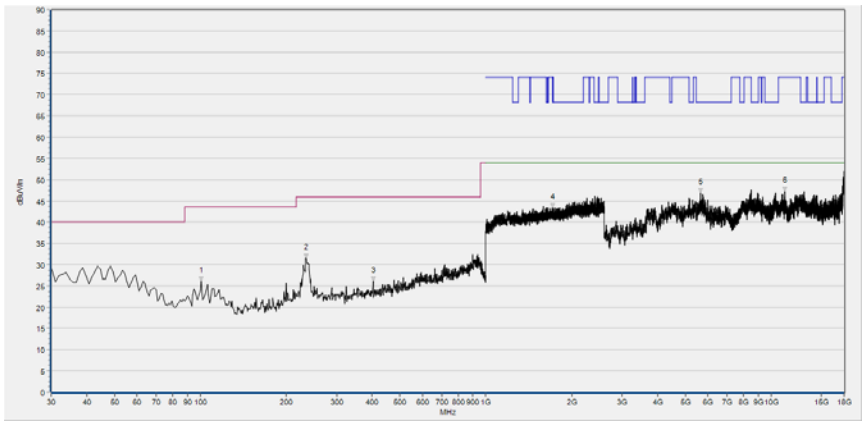
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
91.171	23.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
234.875	28.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
577.628	27.86	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1596.465	45.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3681.296	43.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7972.595	46.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

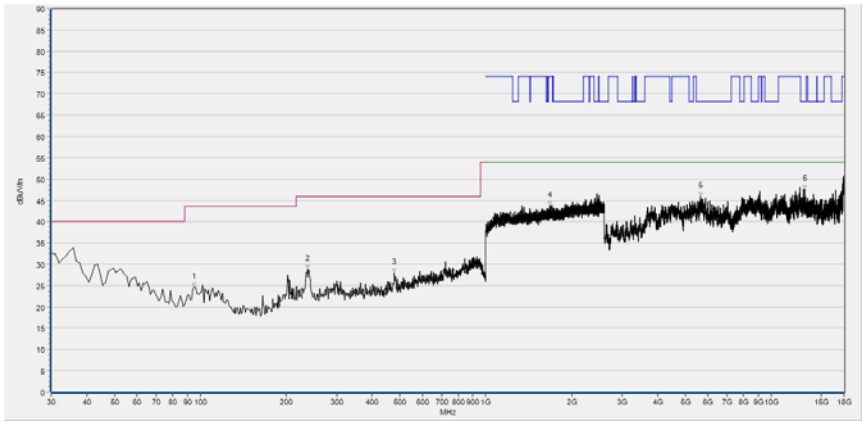
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	26.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
234.875	31.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
402.853	26.10	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1716.506	43.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5659.052	46.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11145.629	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

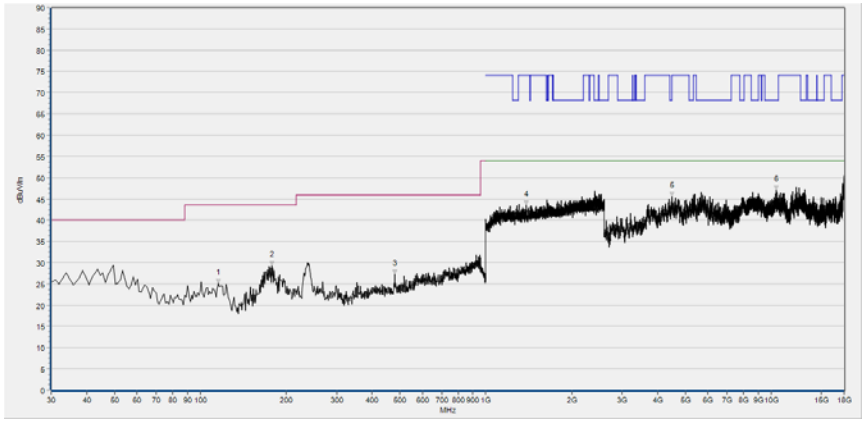
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
95.055	24.61	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.817	28.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
477.618	27.99	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1678.093	43.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5646.729	45.98	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13089.498	47.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

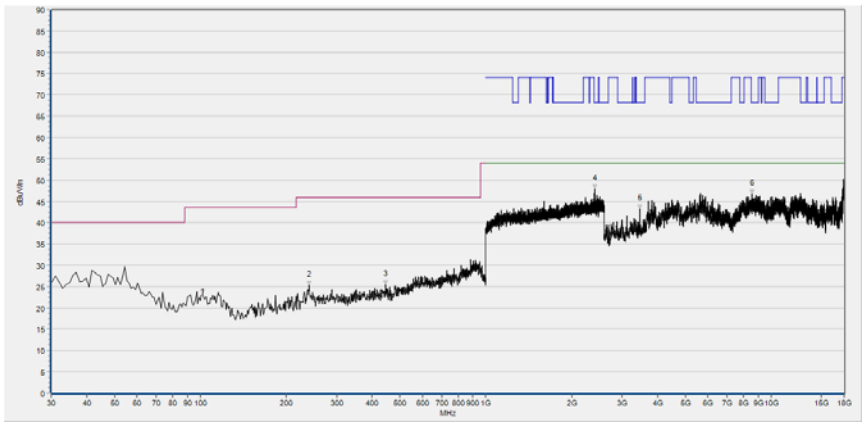
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
115.445	25.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
177.588	29.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
479.560	27.38	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1386.262	43.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4491.498	45.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10430.926	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

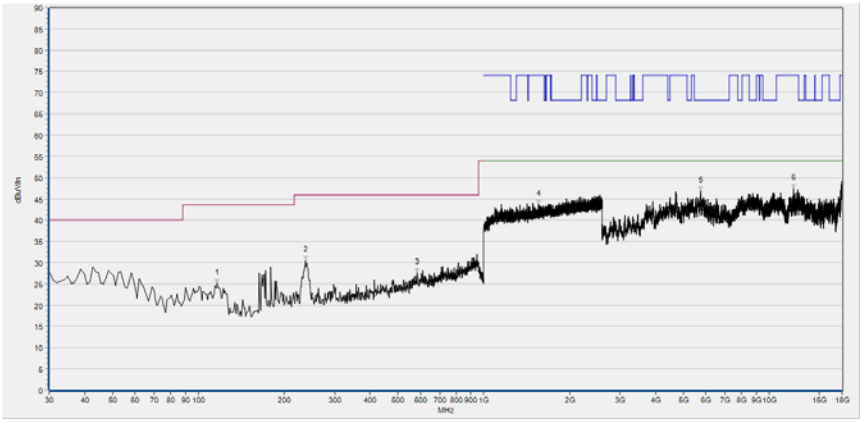
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	23.36	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
240.701	25.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
445.576	25.55	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2411.671	48.01	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
3465.653	43.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8557.912	46.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

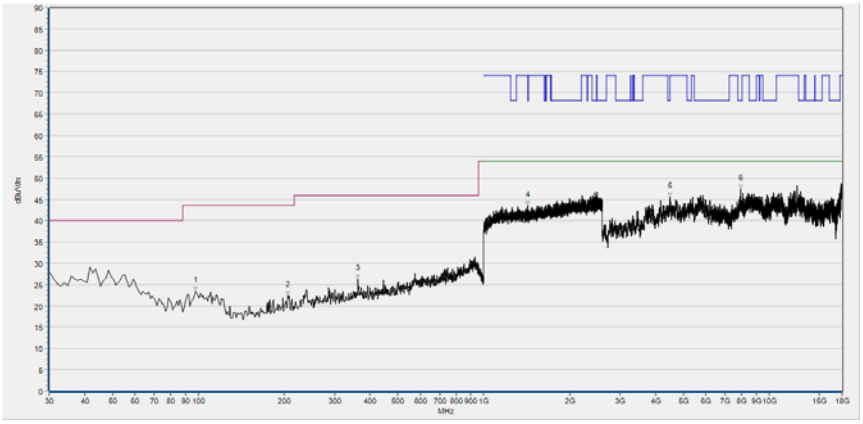
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
116.416	25.14	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	30.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
584.424	27.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1557.519	43.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5742.228	46.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12165.313	47.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

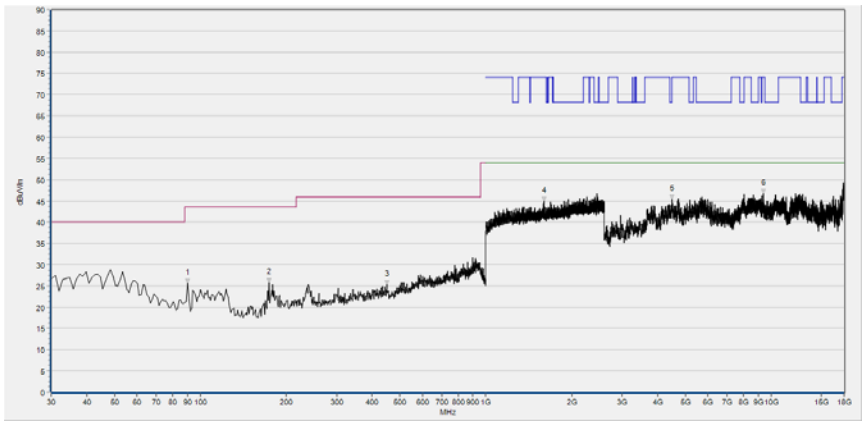
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
97.968	23.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.746	22.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
362.072	26.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1427.876	43.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4476.095	45.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
7941.788	47.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

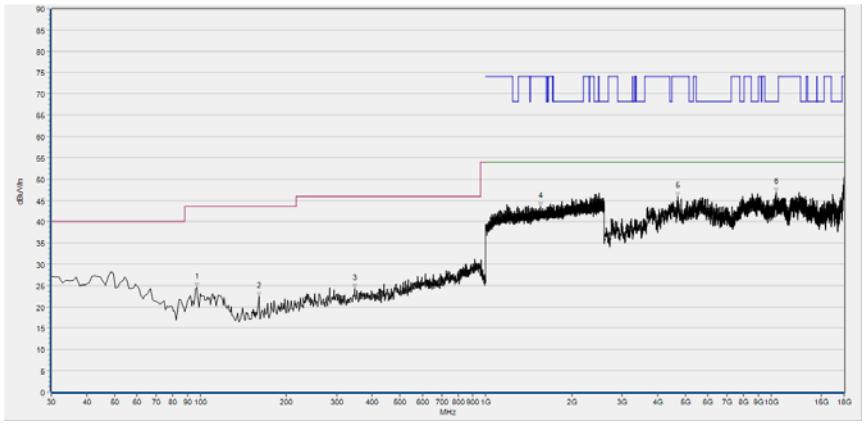
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	25.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
173.704	25.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
449.459	25.35	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1595.398	44.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4497.660	45.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9392.759	46.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

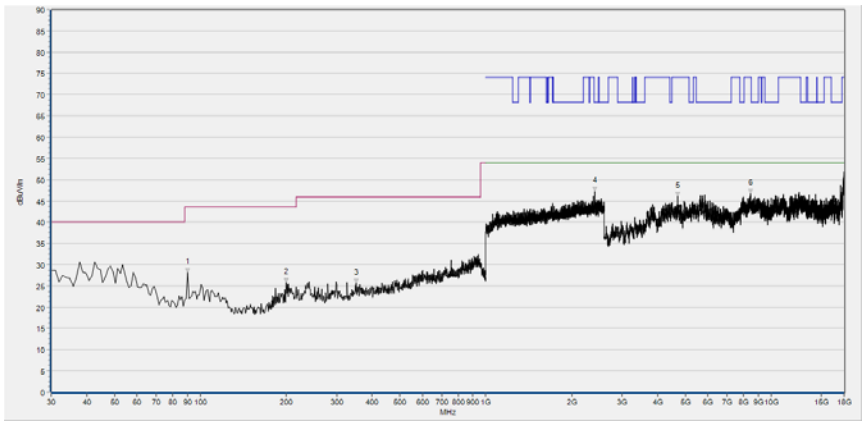
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.997	24.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
160.110	22.47	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
346.537	24.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1554.318	43.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4713.303	46.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10421.684	46.96	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

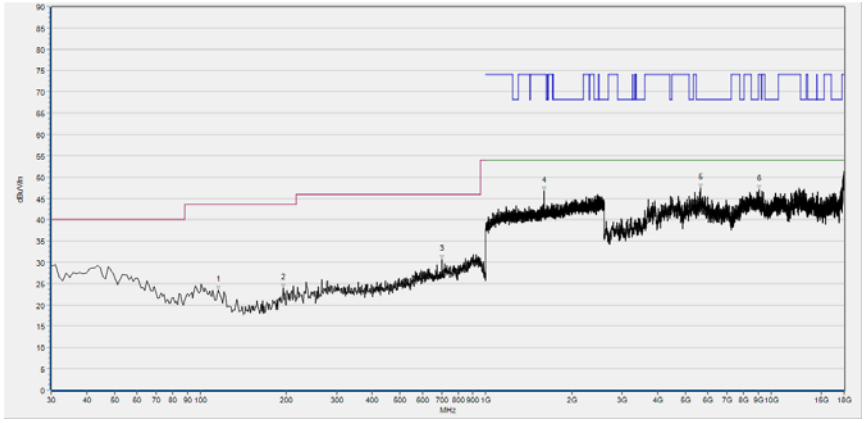
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	28.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
199.920	25.85	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
351.391	25.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2414.338	47.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4710.222	46.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8462.412	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

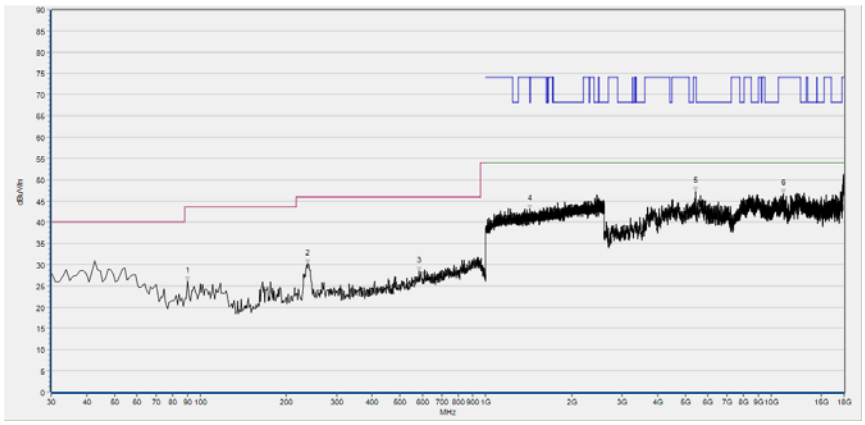
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
115.445	23.46	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
195.065	24.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
700.941	30.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1598.600	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5643.649	47.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9060.052	47.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

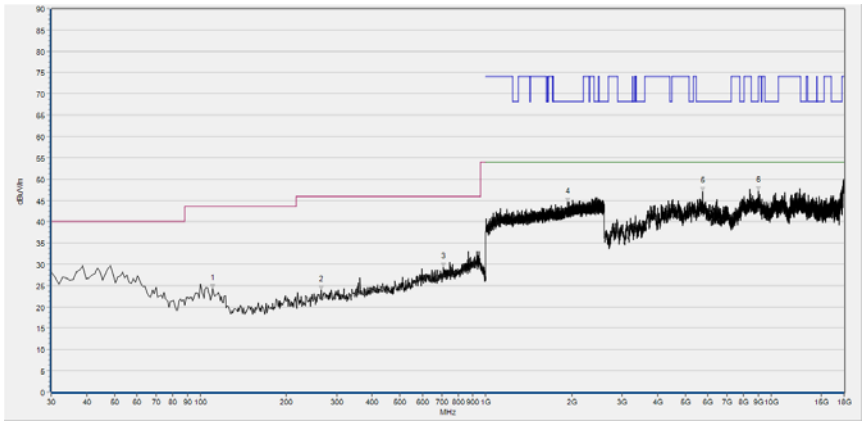
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	26.22	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	30.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.453	28.46	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1429.476	43.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5443.409	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11022.404	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

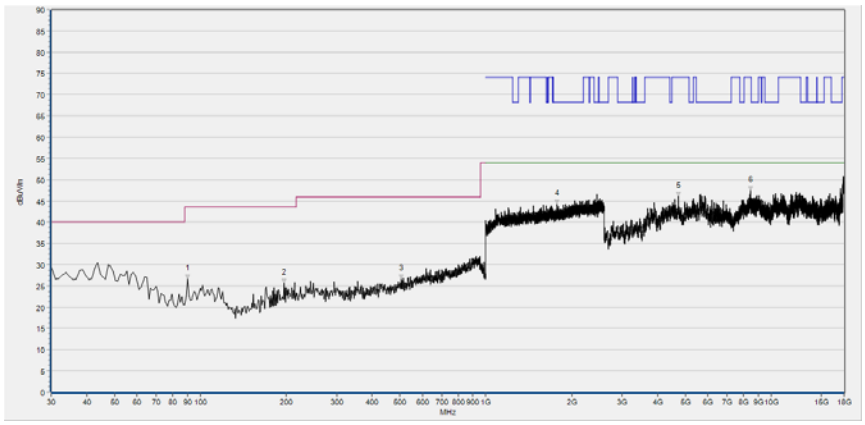
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	24.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
264.975	24.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
710.651	29.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1937.913	44.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5742.228	47.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9035.407	47.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

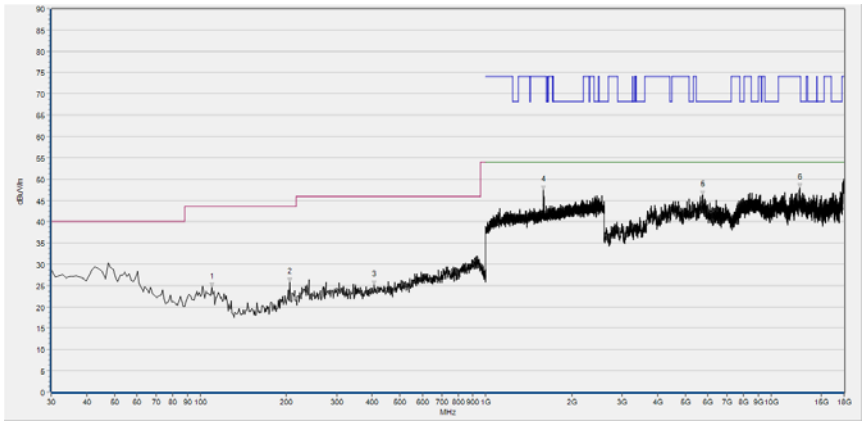
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	26.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
196.036	25.67	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
505.776	26.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1771.991	44.22	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4722.545	46.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8459.332	47.40	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

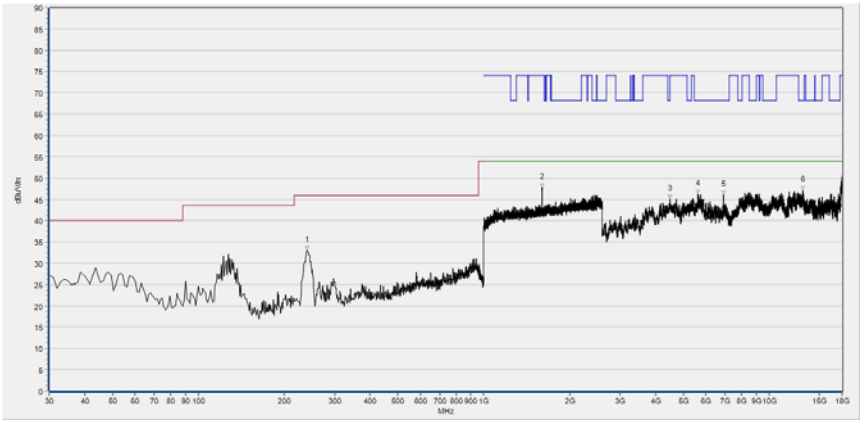


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.620	24.69	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.746	25.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
406.737	25.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1594.331	47.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5745.309	46.26	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12615.083	47.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

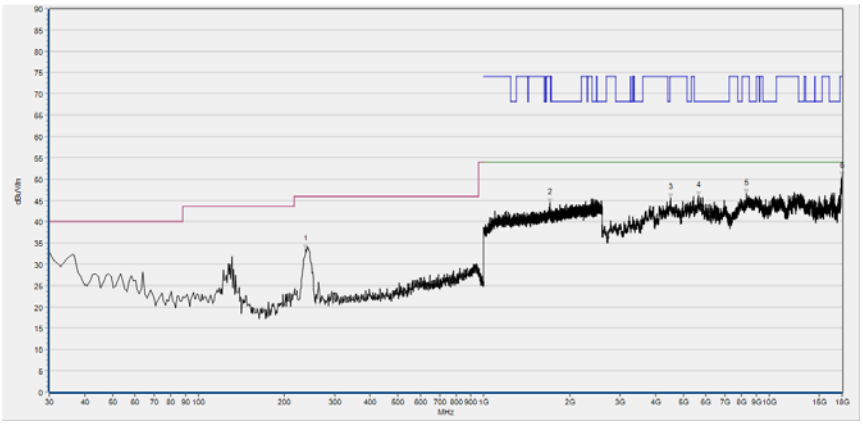
802.11n (HT20) Mode

Plot for Channel 36



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
240.701	32.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1596.999	47.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4479.176	45.03	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5631.326	46.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
6906.701	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13083.337	47.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

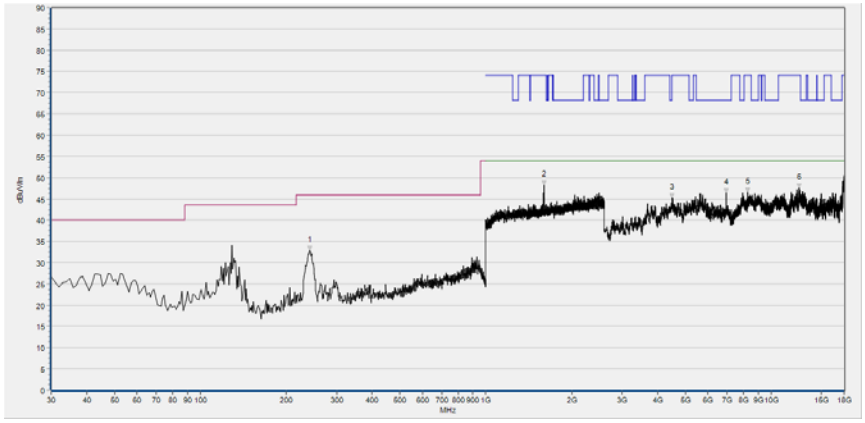
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
237.788	33.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1703.701	44.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4516.143	45.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5640.568	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8329.946	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
17987.678	50.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

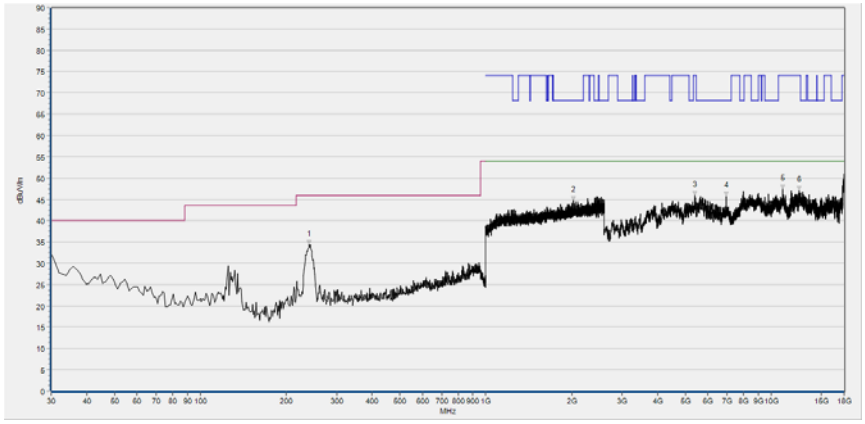
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
241.672	32.89	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1599.133	48.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4500.740	45.22	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6959.072	46.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8256.011	46.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12544.229	47.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

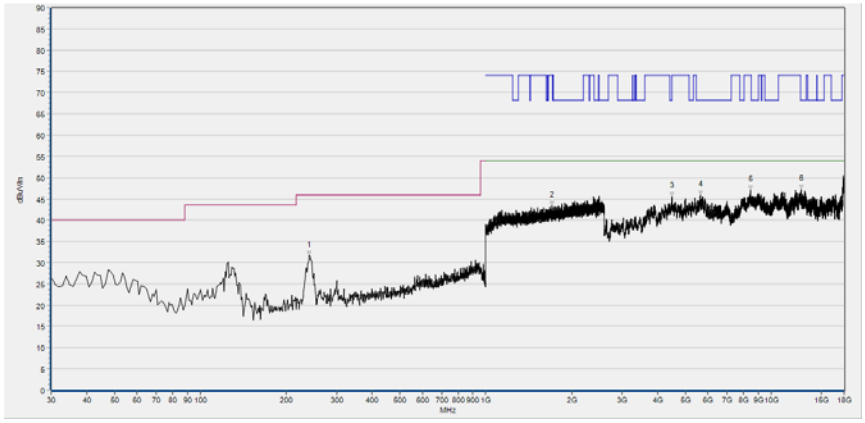
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.701	34.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2027.009	44.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5403.361	45.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6959.072	45.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10988.518	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12525.745	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

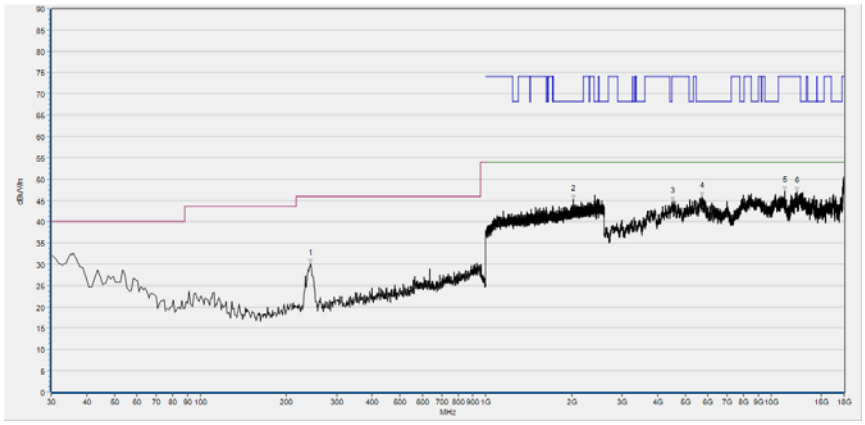
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.701	31.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1707.436	43.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4479.176	45.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5640.568	45.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8456.251	47.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12744.469	47.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

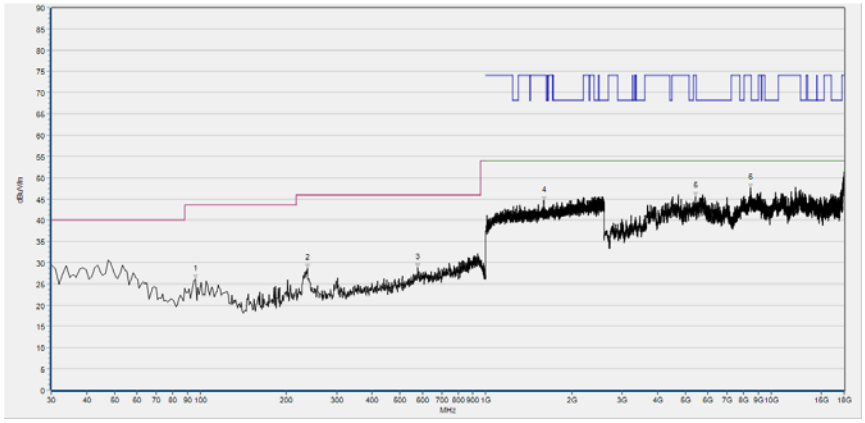
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
243.614	30.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2022.741	45.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4503.821	44.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5726.825	45.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11145.629	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12303.941	47.08	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

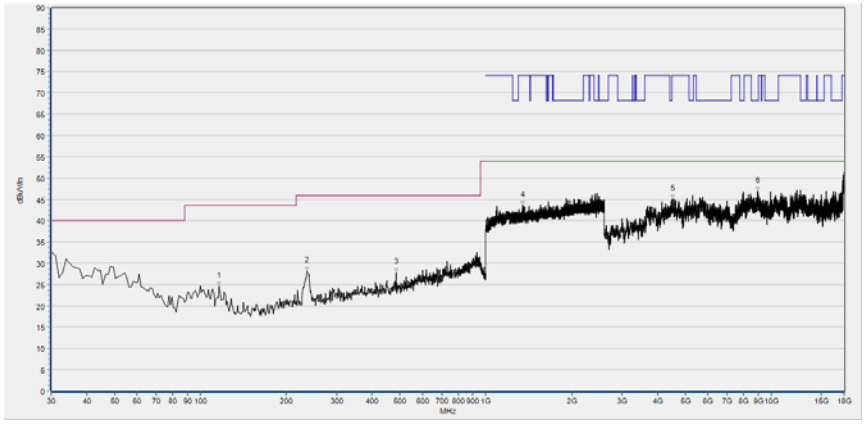
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
96.026	26.20	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	28.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
577.628	28.76	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1595.398	44.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5415.683	45.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8447.009	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

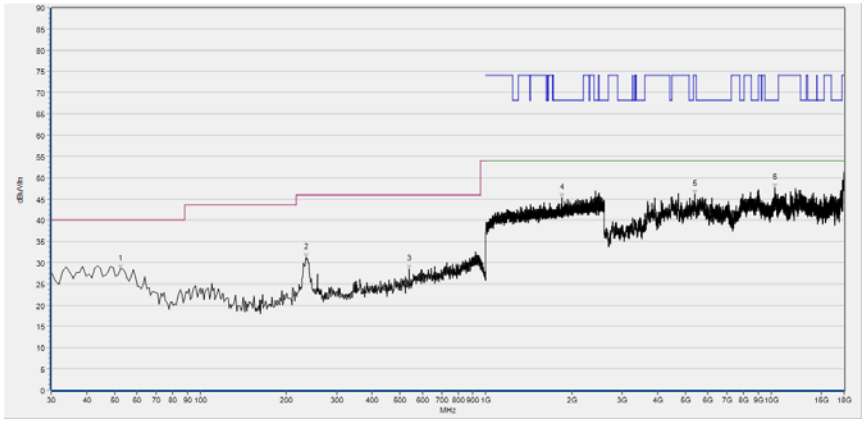
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
116.416	24.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	28.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
484.414	27.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1345.715	43.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4509.982	45.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8946.069	46.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

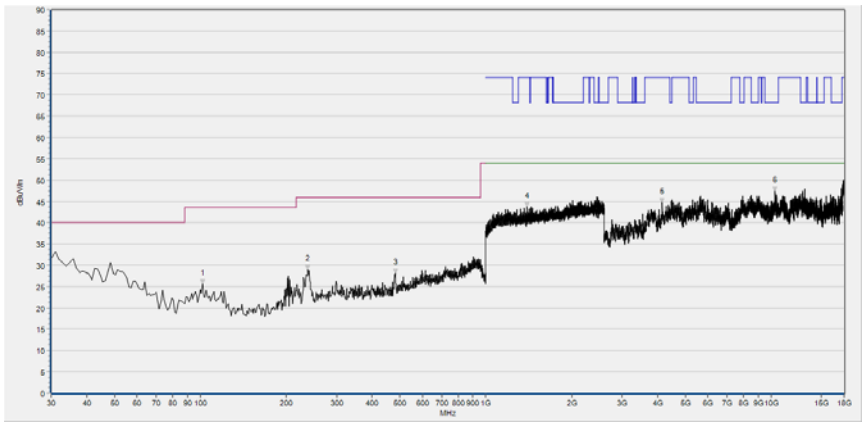
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
52.332	28.53	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
234.875	31.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
539.760	28.51	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1848.283	45.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5403.361	46.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10316.943	47.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

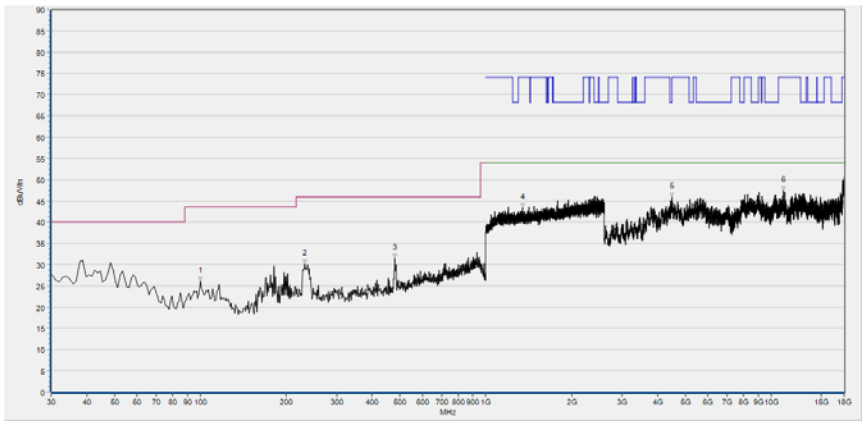
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
101.852	25.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
481.502	28.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1393.731	43.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4149.550	44.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10320.024	47.40	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

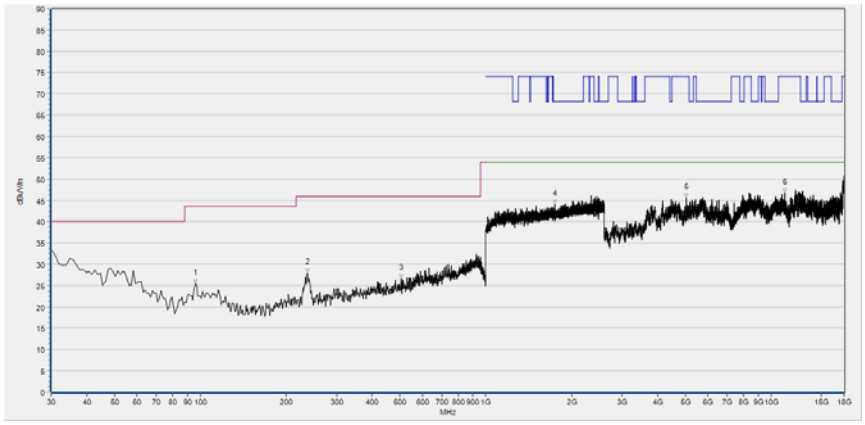
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	26.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
231.962	30.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
479.560	31.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1344.648	43.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4491.498	45.89	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11028.566	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

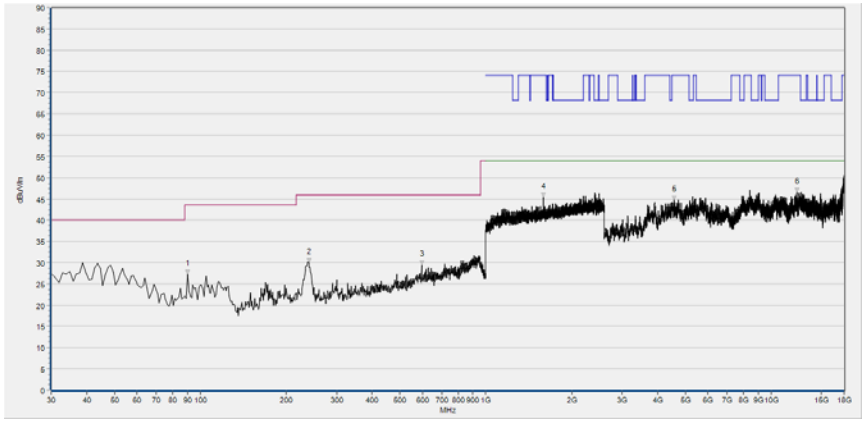
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.026	25.41	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.817	27.93	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
503.834	26.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1746.382	44.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5049.090	45.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11139.468	46.71	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

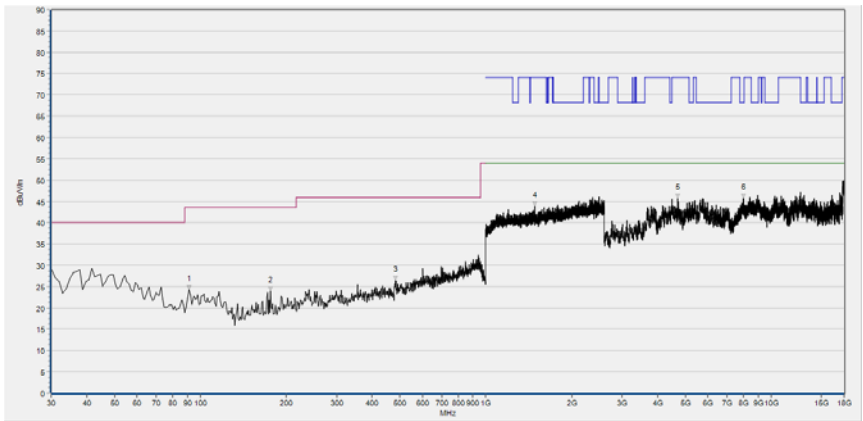
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	27.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.730	29.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
596.076	29.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1594.331	45.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4562.352	44.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12313.183	46.67	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

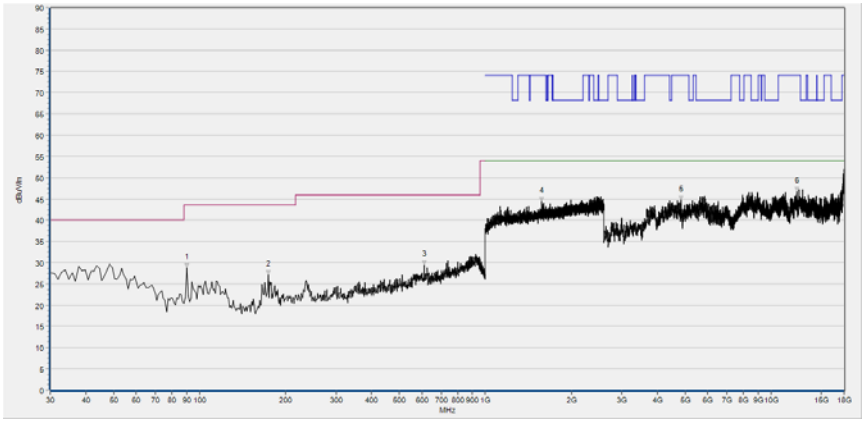
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
91.171	24.31	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
175.646	24.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
482.472	26.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1484.962	43.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4710.222	45.81	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7966.433	45.70	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

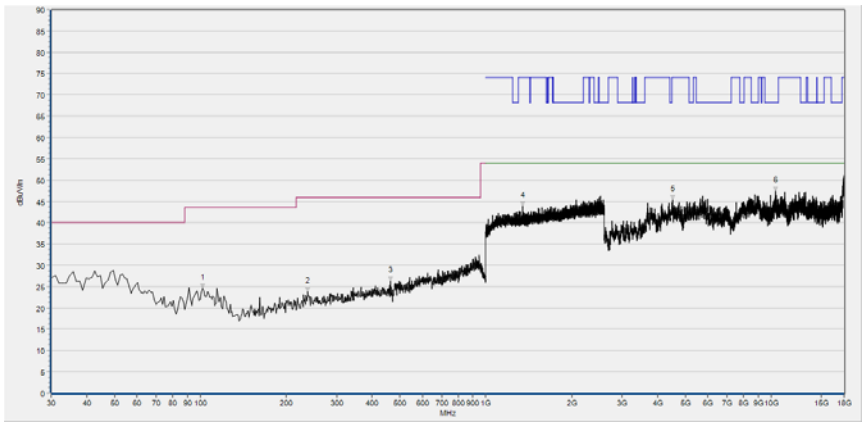
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	28.81	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
173.704	27.21	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
610.641	29.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1576.192	44.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4833.447	44.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12294.699	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

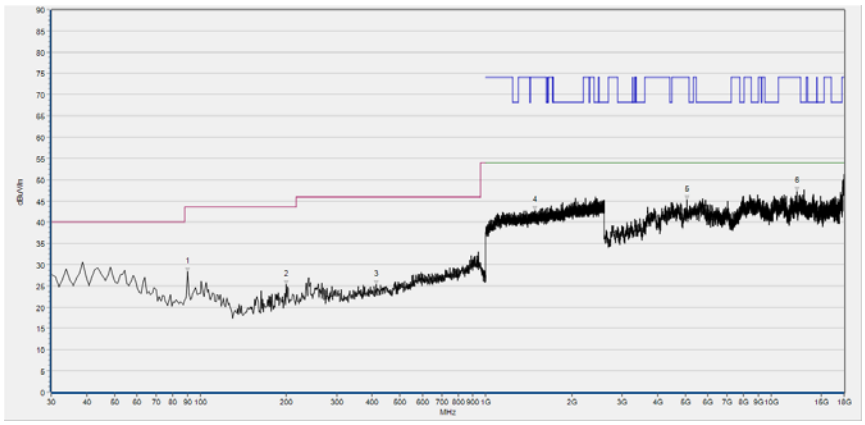
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	24.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
237.788	23.81	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
463.053	26.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1346.782	43.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4509.982	45.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10338.508	47.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

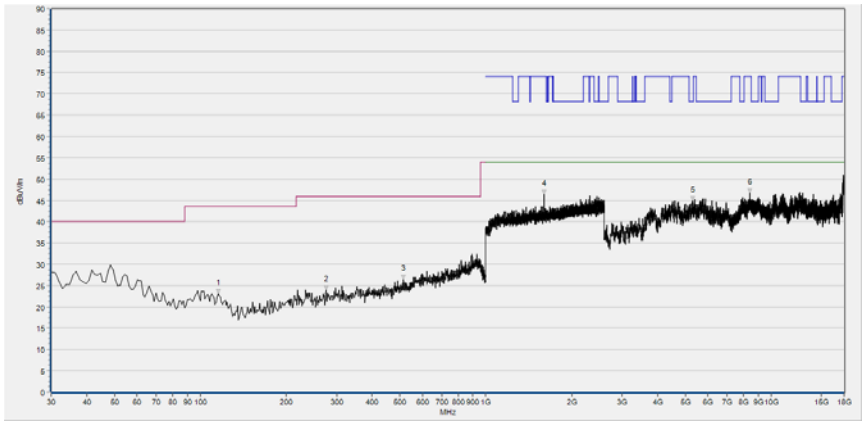
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	28.38	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
199.920	25.23	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
413.534	25.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1486.029	42.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5073.735	45.18	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12310.102	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

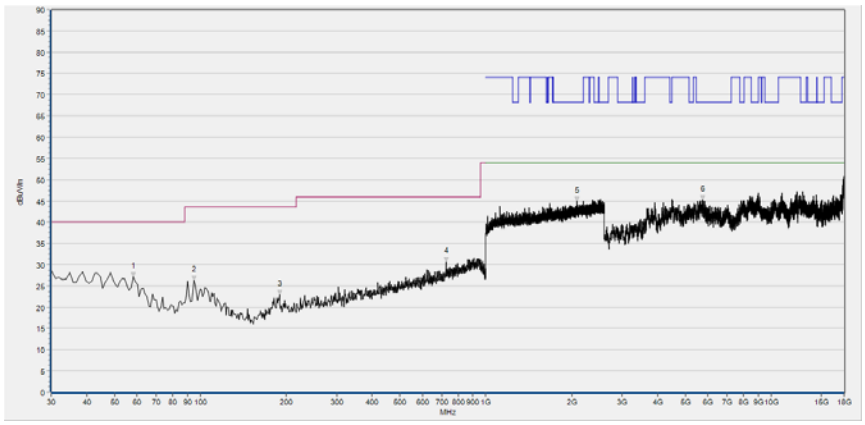
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
115.445	23.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
275.656	24.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
514.515	26.41	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1599.667	46.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5295.539	44.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8422.364	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

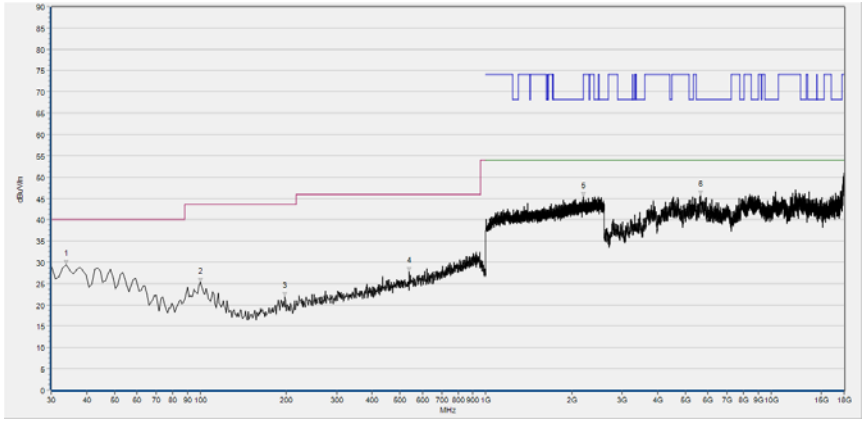
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
58.158	27.20	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
95.055	26.30	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
189.239	22.88	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
725.215	30.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2082.494	44.92	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5742.228	45.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

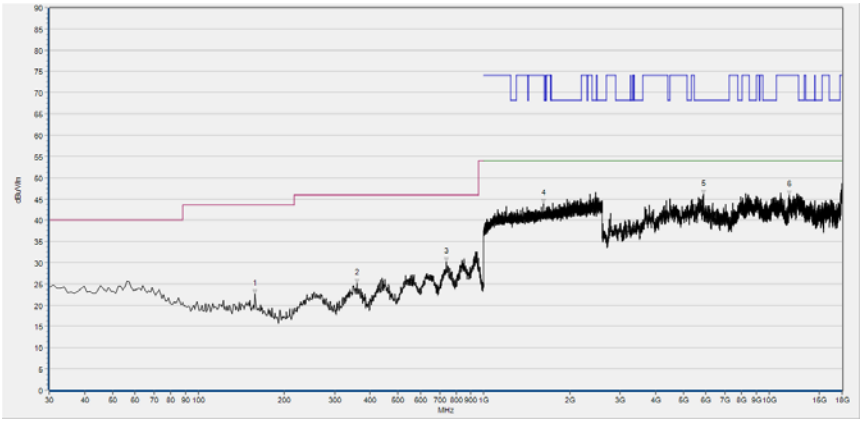
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
33.884	29.55	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
99.910	25.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
197.978	21.90	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
539.760	27.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2200.400	45.42	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5652.891	45.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

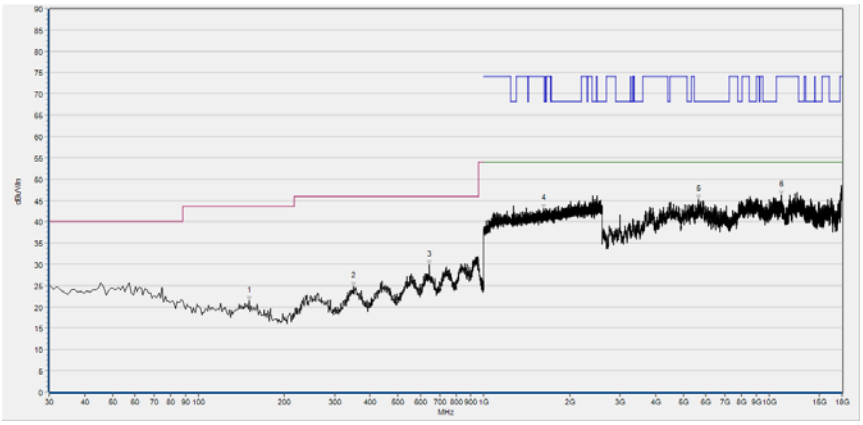
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
158.168	22.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
359.159	25.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
738.809	30.13	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1619.406	43.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5871.614	46.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11740.188	45.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

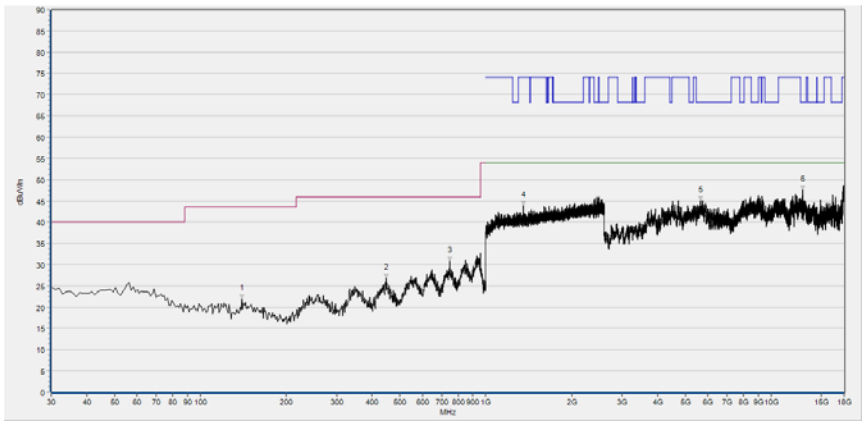
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
150.400	21.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
349.449	24.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
644.625	29.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1620.473	43.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5637.487	45.17	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11059.372	46.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

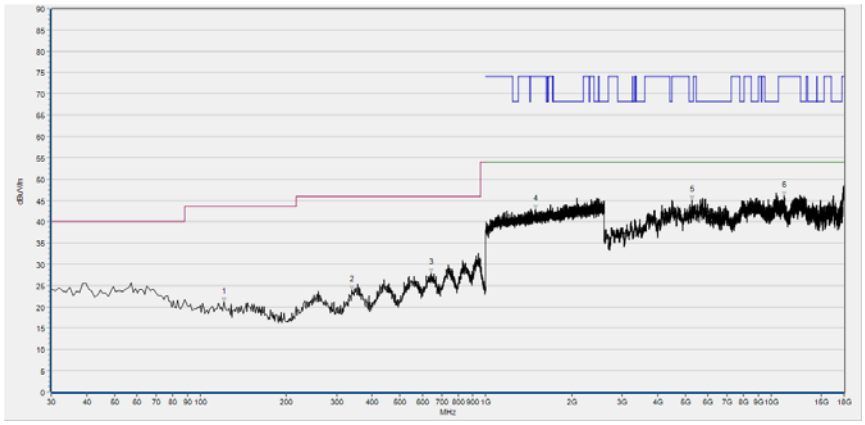
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
139.720	21.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
448.488	26.86	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
746.577	30.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1356.385	43.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5668.294	45.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12904.661	47.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

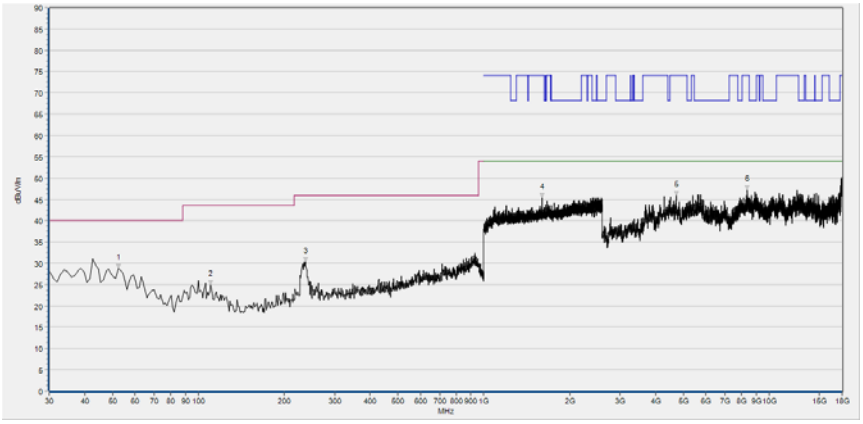


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
121.271	21.12	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
338.769	23.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
643.654	27.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1496.699	42.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5277.055	45.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11071.694	46.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

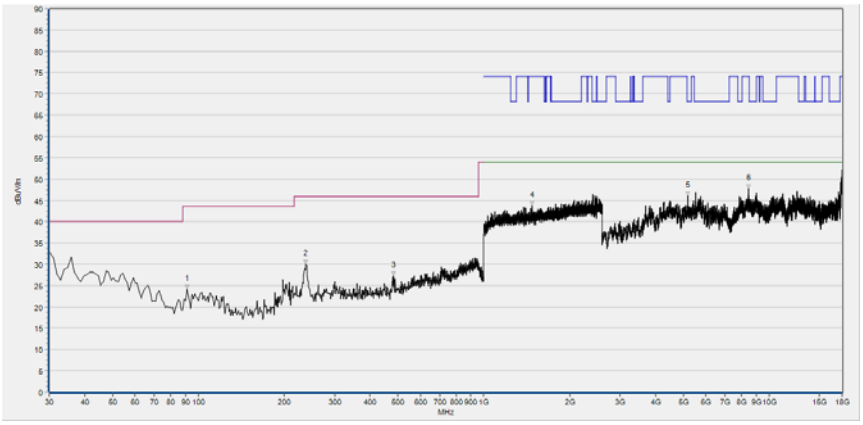
802.11n (HT40) Mode

Plot for Channel 38



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
52.332	28.82	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
110.591	25.05	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	30.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1597.533	45.34	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4719.464	45.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8385.397	47.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

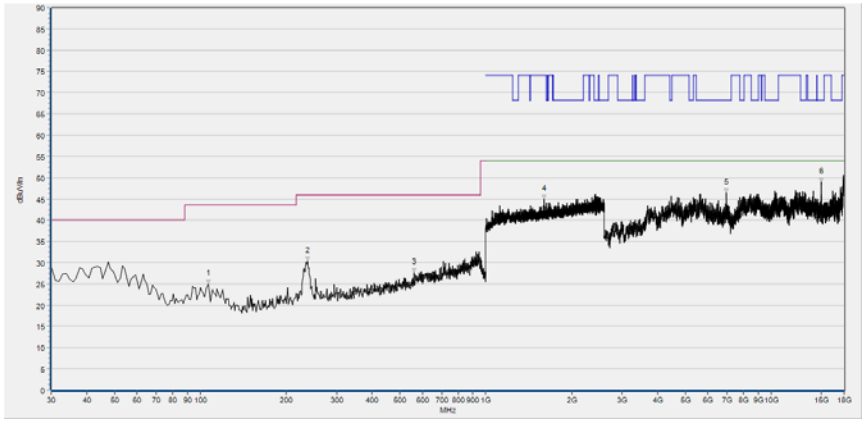
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
91.171	24.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	29.93	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
482.472	27.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1476.425	43.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5178.476	46.11	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8474.735	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

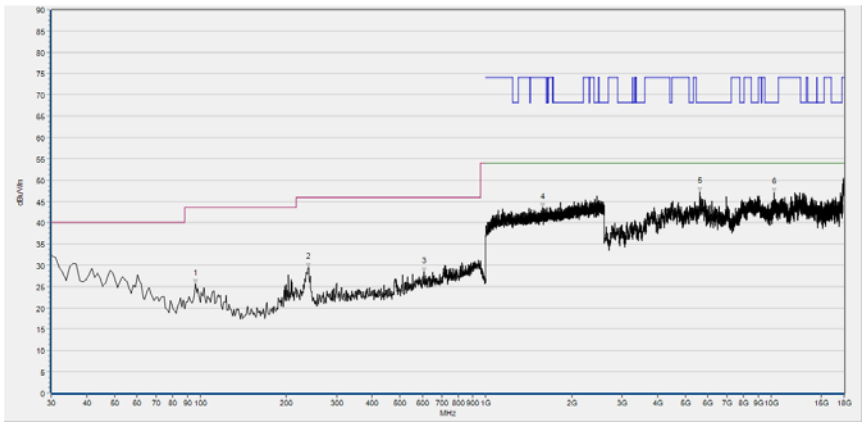
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.707	24.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	30.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
560.150	27.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1595.932	44.90	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6974.475	46.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14993.319	48.94	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

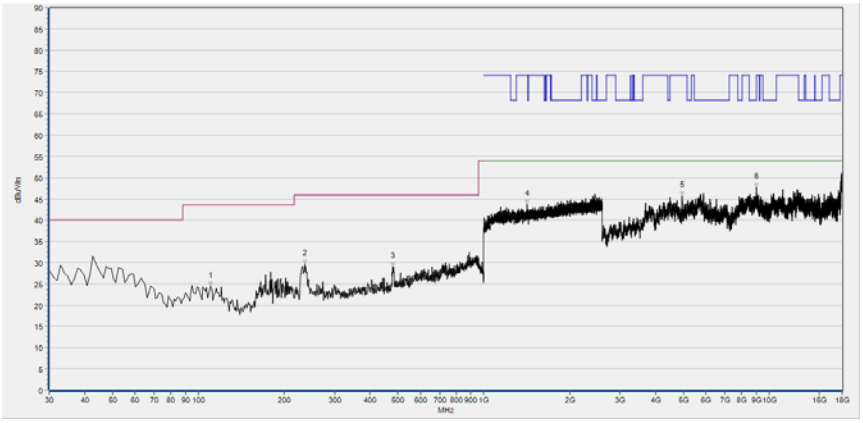
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
96.026	25.66	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.759	29.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
606.757	28.54	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1579.393	43.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5628.246	47.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10258.412	47.07	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

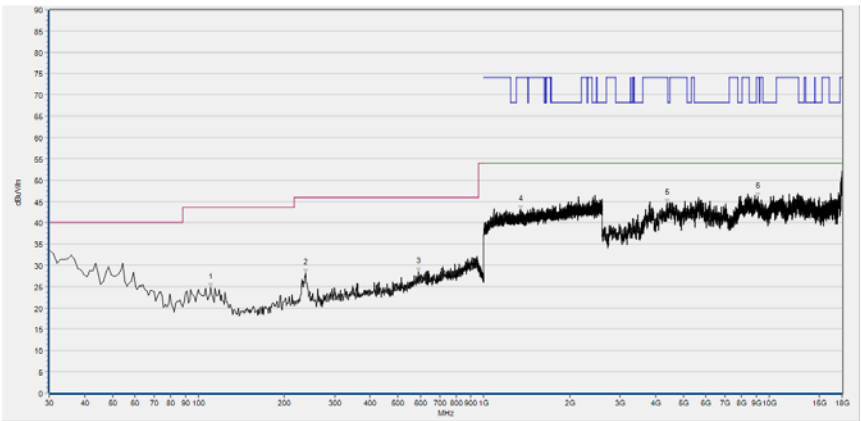
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
110.591	24.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
235.846	29.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
480.531	28.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1416.672	43.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4956.671	45.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9001.520	47.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

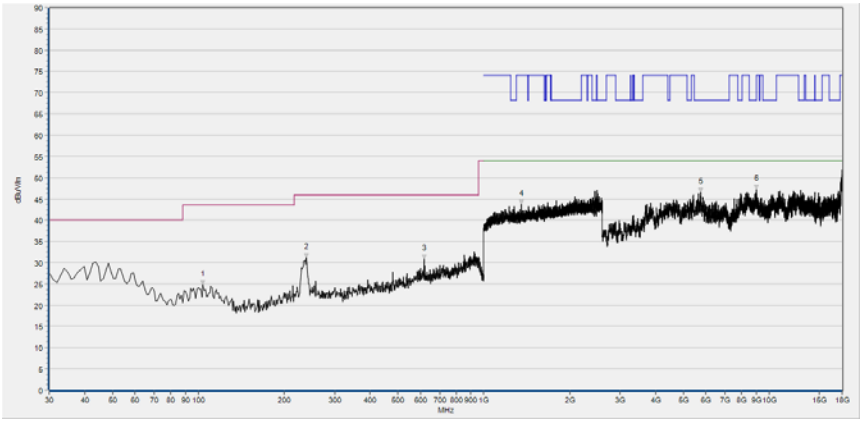
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	24.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
589.279	28.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1347.316	43.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4374.435	44.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9097.019	46.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

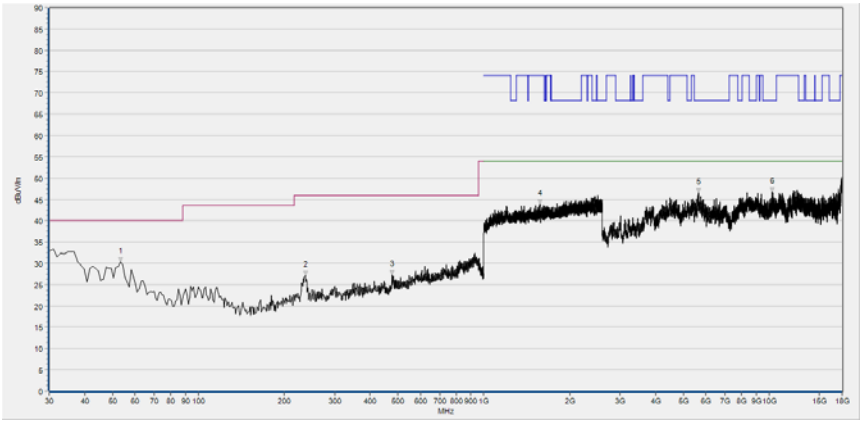
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
103.794	24.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	31.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
616.466	30.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1355.318	43.68	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5754.551	46.51	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9020.004	47.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

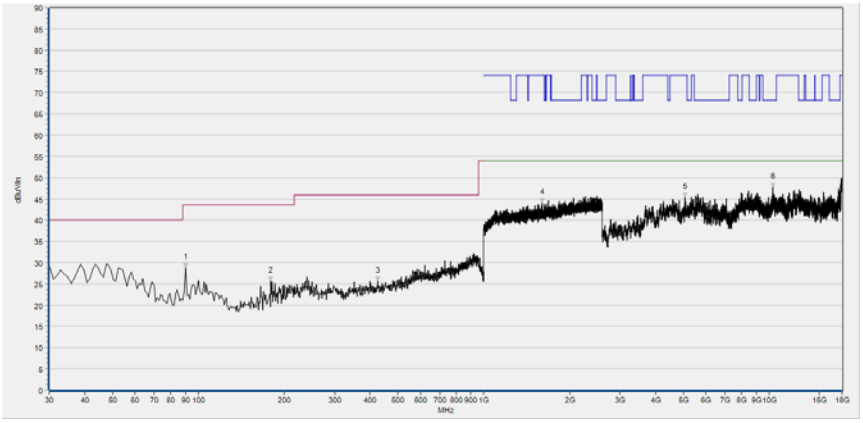
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.303	30.33	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
236.817	27.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
475.676	27.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1571.924	43.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5655.971	46.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10261.492	46.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

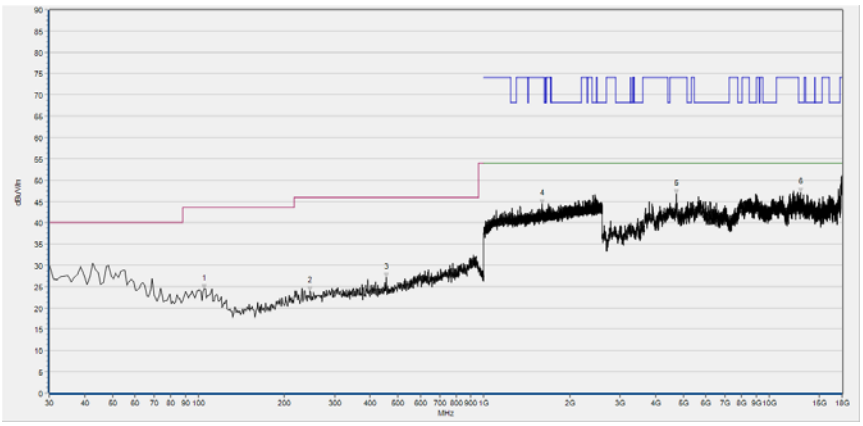
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	28.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
179.530	25.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
425.185	25.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1599.133	44.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5070.654	45.38	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10307.702	47.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

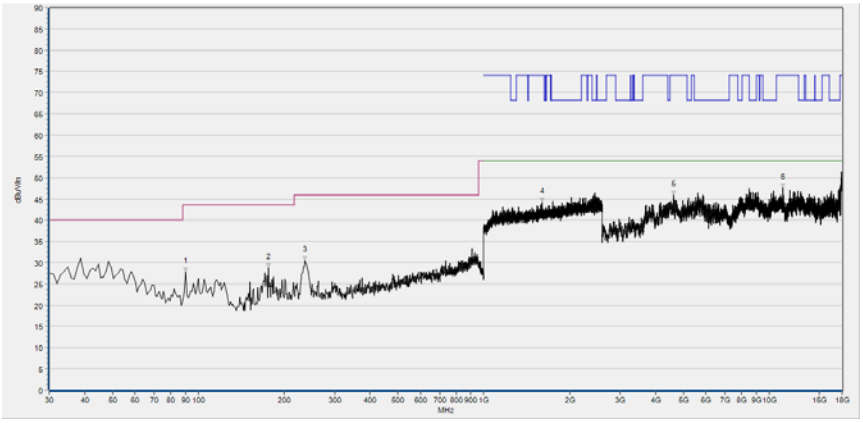
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	24.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
246.527	23.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
455.285	27.17	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1598.066	44.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4725.625	46.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12895.419	47.13	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

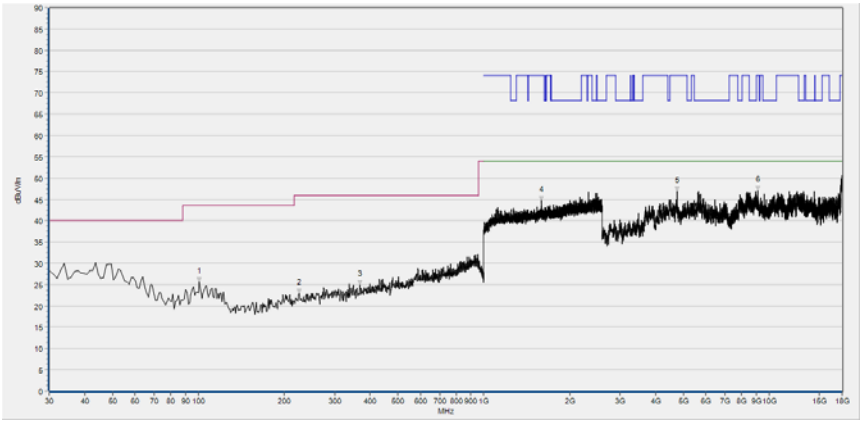
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	27.83	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
175.646	28.77	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
235.846	30.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1595.398	44.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4630.126	45.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11188.758	47.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

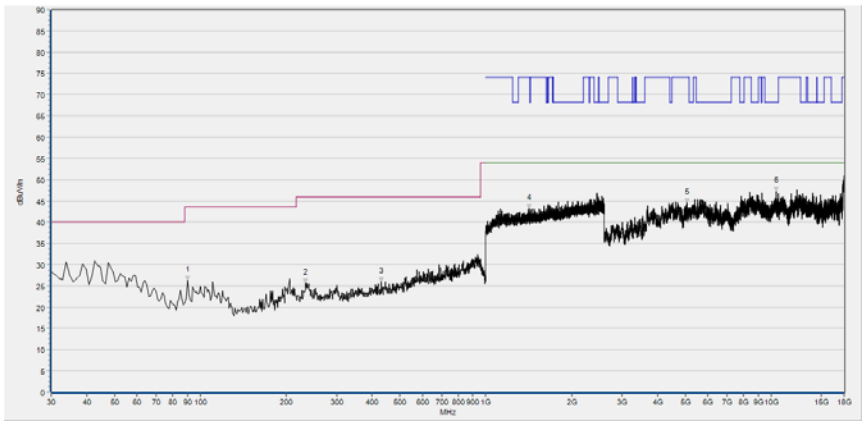
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	25.70	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
225.165	22.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
367.898	24.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1594.331	44.80	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4750.270	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9124.745	47.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

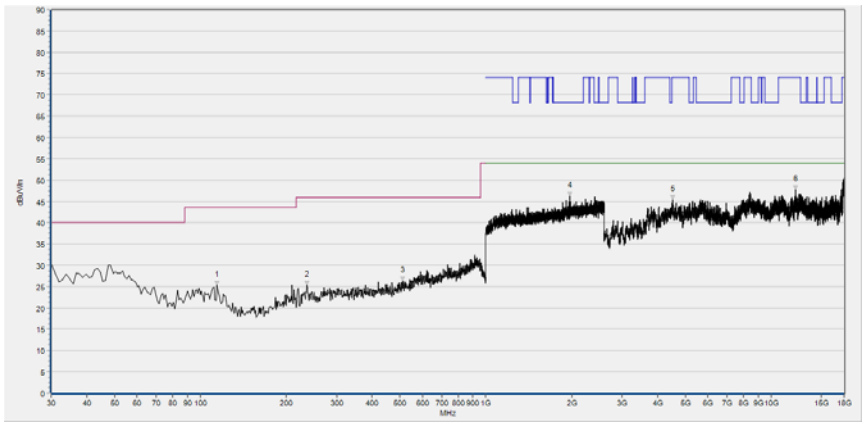
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	26.34	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
233.904	25.63	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
431.011	26.00	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1414.538	43.31	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5055.251	44.60	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10427.846	47.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

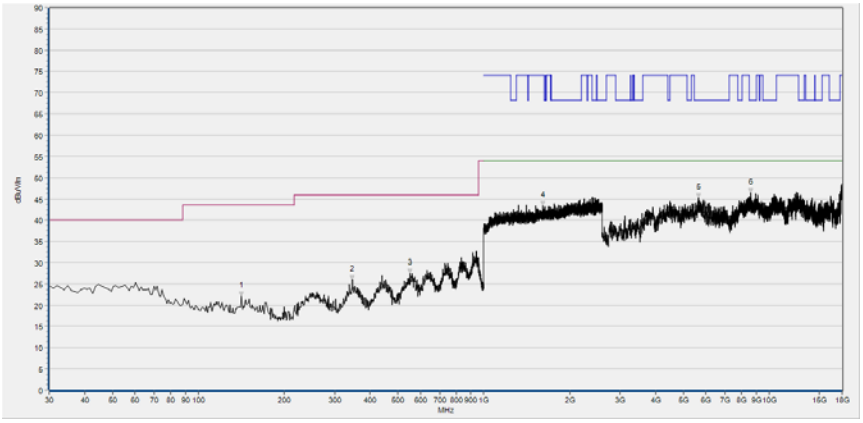
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.474	25.27	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	25.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
509.660	26.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1966.189	46.26	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4519.224	45.38	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12149.910	47.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

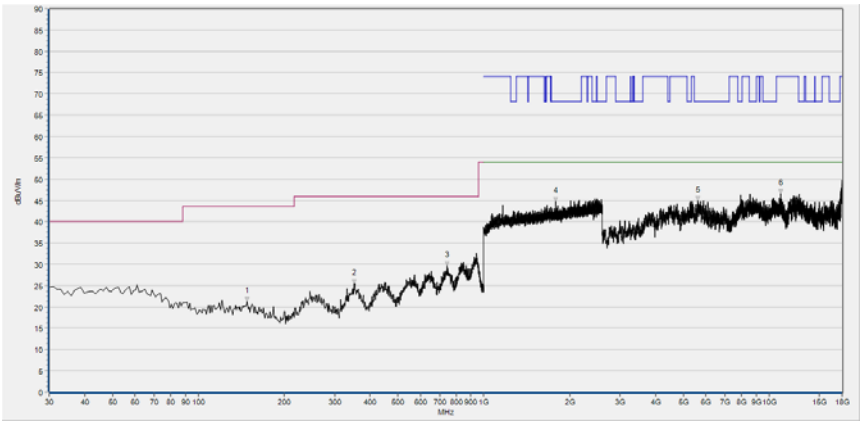
(Antenna Vertical, 30MHz to 18GHz)

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
141.662	22.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
345.566	25.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
550.440	27.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1605.002	43.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5637.487	45.24	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8631.846	46.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

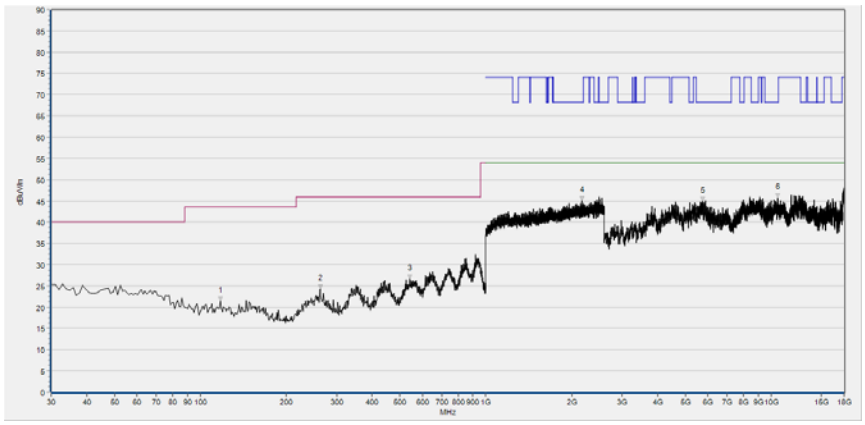
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
148.458	21.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
351.391	25.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
743.664	29.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1788.530	44.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5625.165	44.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10970.034	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

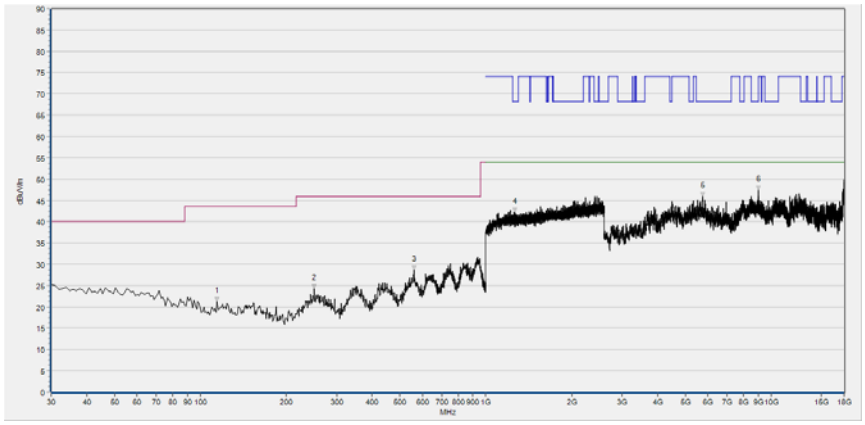
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
117.387	21.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
263.033	24.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
540.731	26.58	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2165.722	45.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5748.390	44.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10560.312	45.73	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

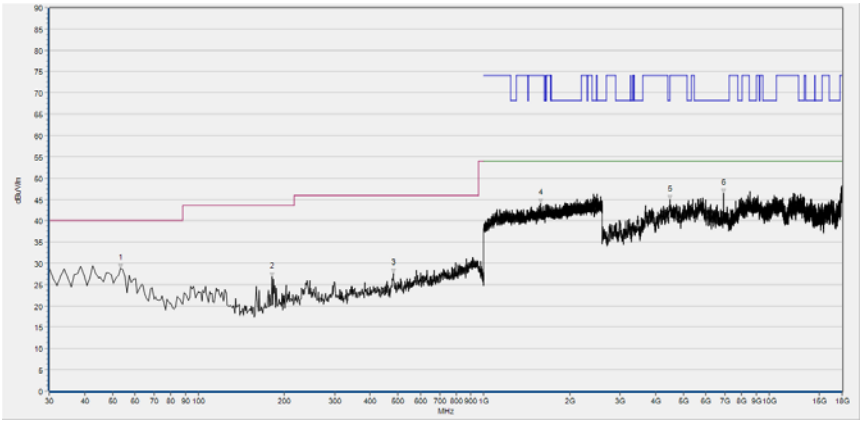


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.474	21.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
250.410	24.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
560.150	28.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1261.420	42.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5763.793	46.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
9023.085	47.37	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

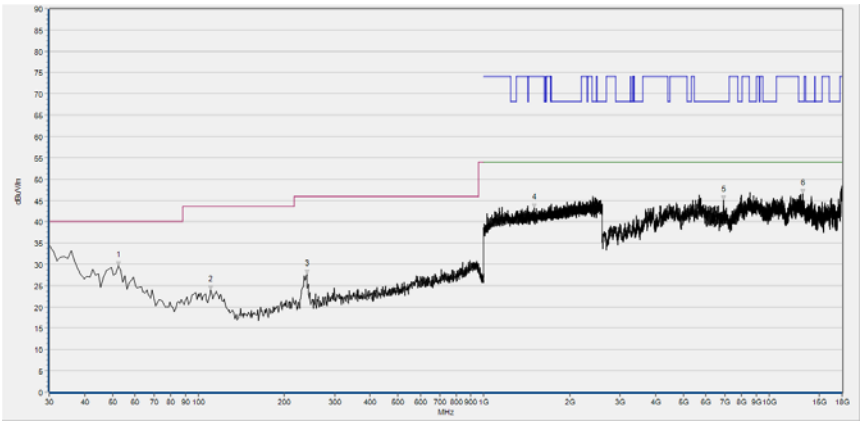
802.11ac (VHT20) Mode

Plot for Channel 36



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
53.303	28.87	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
181.471	26.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
482.472	27.62	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1580.994	44.09	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4494.579	44.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
6906.701	46.38	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

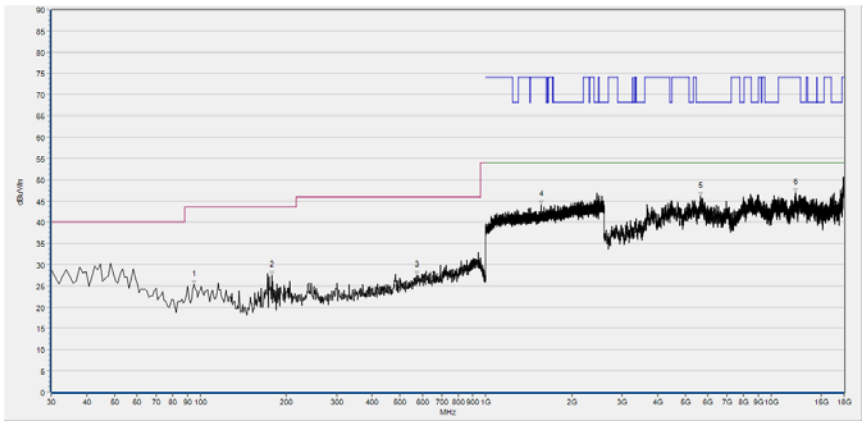
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
52.332	29.60	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
110.591	23.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.730	27.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1502.034	43.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6906.701	45.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13098.740	46.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

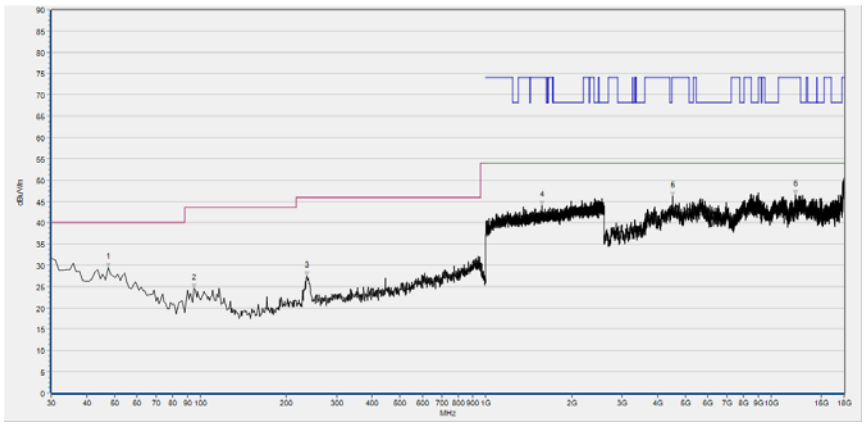
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
95.055	25.36	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
177.588	27.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
573.744	27.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1566.055	44.05	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5659.052	46.07	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12149.910	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

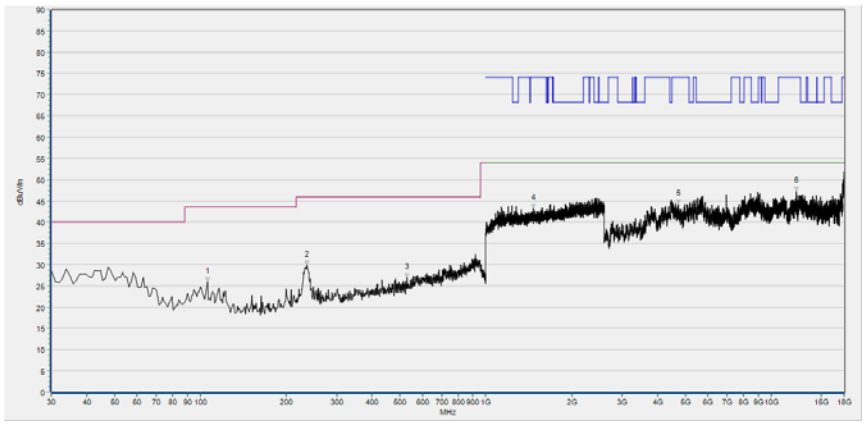
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
47.477	29.52	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
95.055	24.64	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	27.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1573.525	44.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4516.143	46.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12162.232	46.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

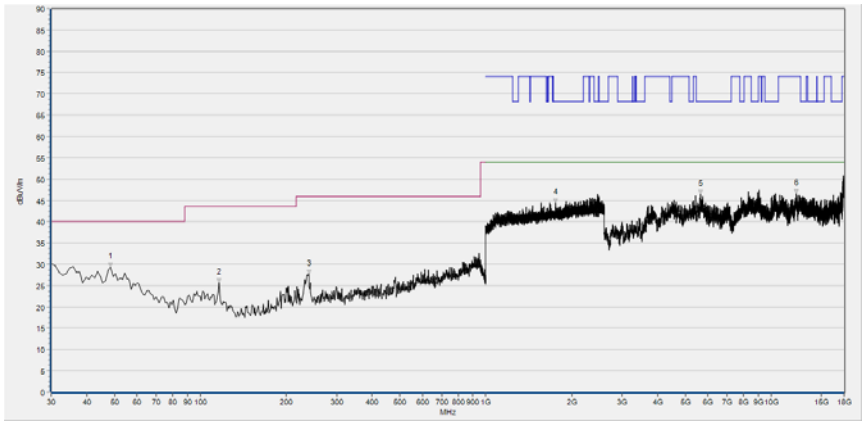
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
105.736	25.90	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
235.846	29.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
530.050	26.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1464.688	43.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4719.464	44.29	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12220.764	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

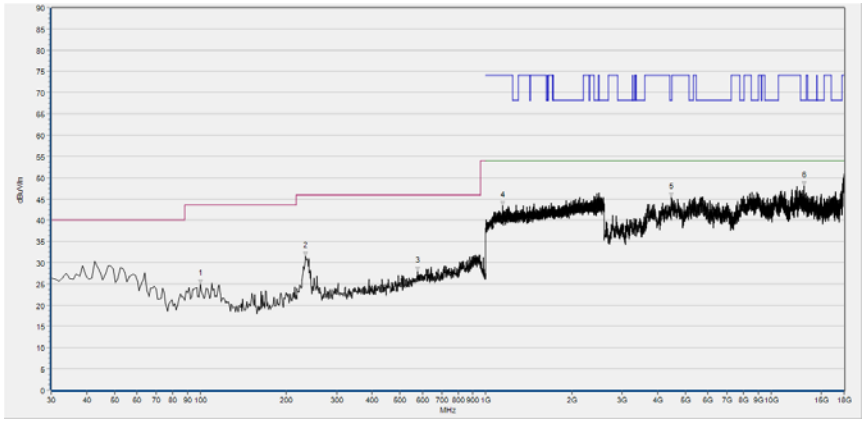
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
48.448	29.31	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
116.416	25.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.730	27.73	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1759.186	44.39	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5646.729	46.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12211.522	46.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

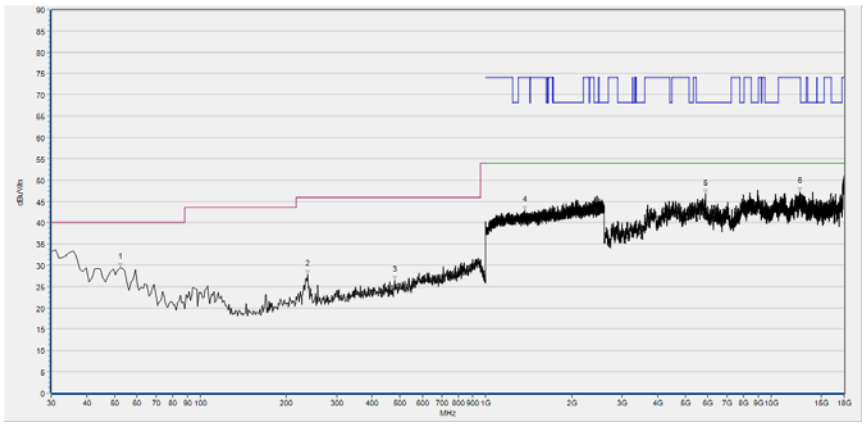
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
99.910	24.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
233.904	31.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
576.657	27.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1145.649	43.32	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4473.015	45.35	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13058.692	48.02	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

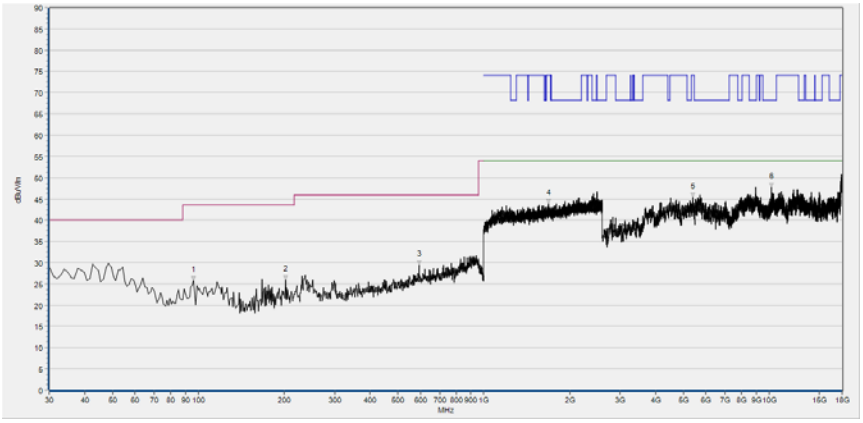
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
52.332	29.55	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
237.788	27.77	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
478.589	26.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1365.989	42.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5874.695	46.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12593.519	47.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

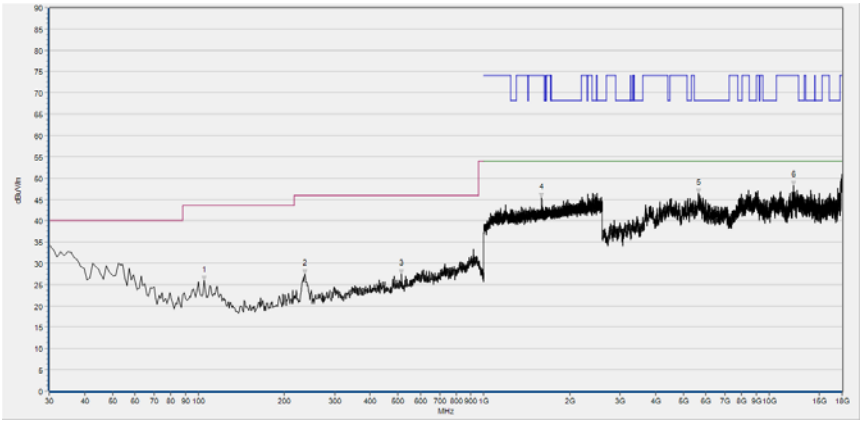
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
96.026	25.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
201.862	25.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
592.192	29.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1681.294	43.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5412.603	45.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10178.316	47.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

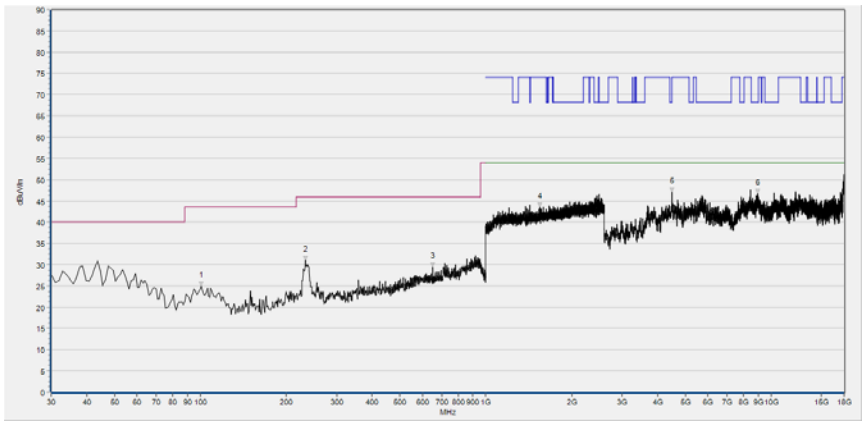
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	25.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	27.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
515.485	27.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1594.331	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5640.568	46.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12180.716	48.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

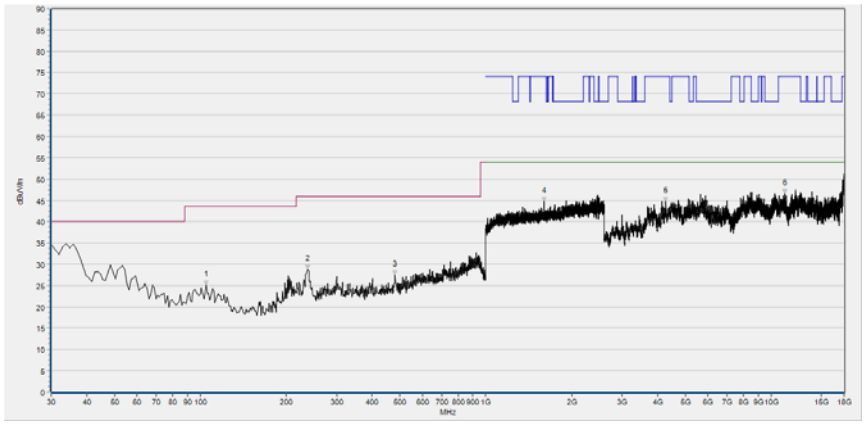
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	24.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.933	31.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
652.392	29.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1549.517	43.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4485.337	47.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8970.714	46.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

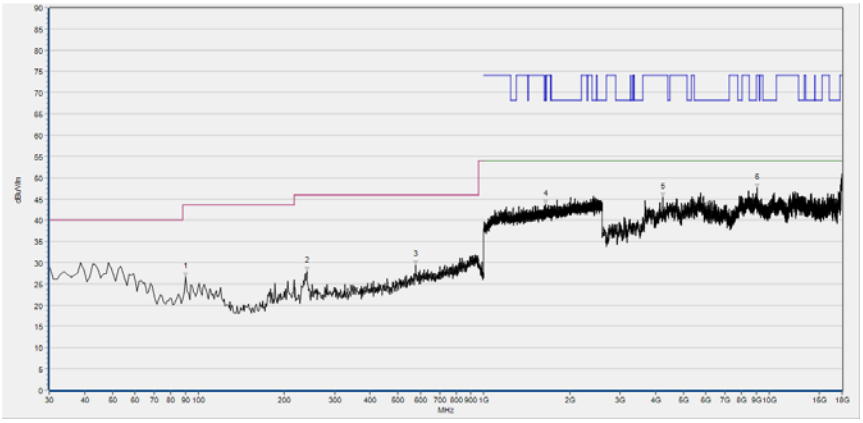
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	25.15	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.75	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
480.531	27.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1599.133	44.83	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4272.775	44.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11154.871	46.61	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

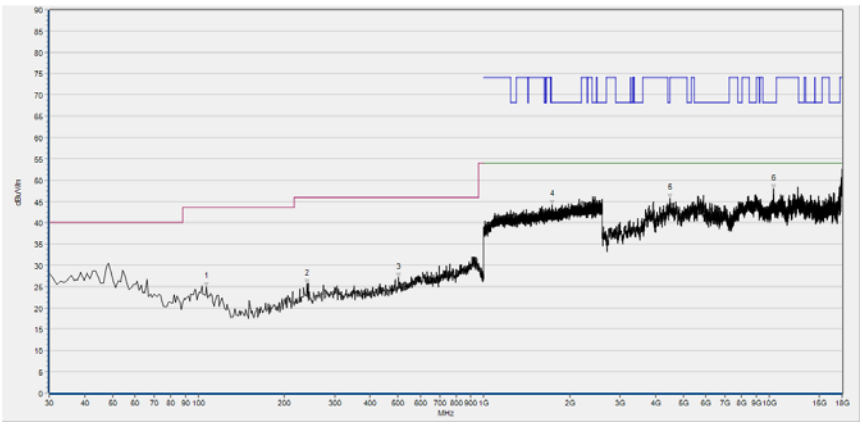
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	26.63	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.730	27.95	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
576.657	29.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1646.616	43.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4241.968	45.39	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9056.971	47.59	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

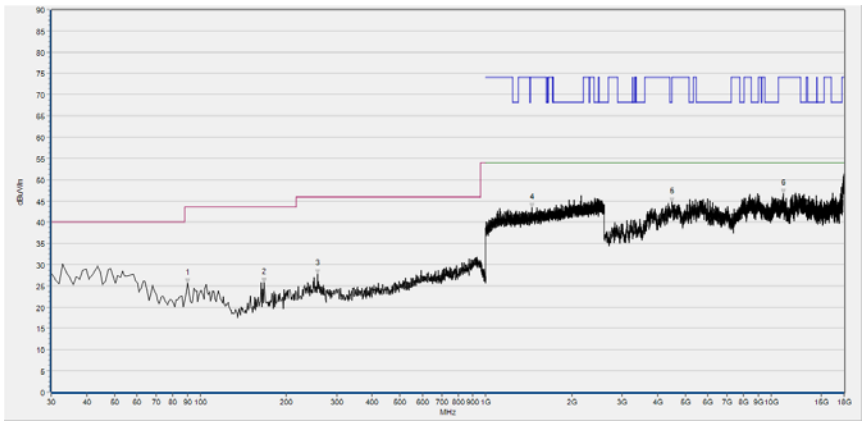
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
106.707	24.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.730	25.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
501.892	27.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1730.910	44.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4497.660	45.68	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10347.750	47.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

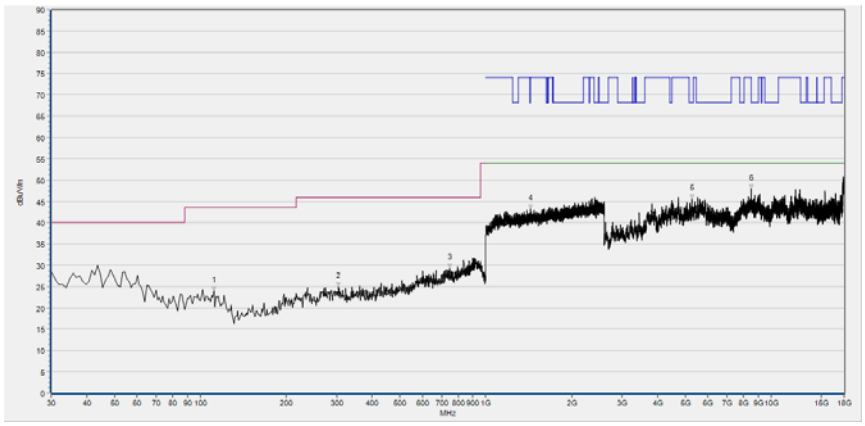
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	25.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
166.907	25.74	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
257.207	27.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1450.283	43.35	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4497.660	44.80	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11028.566	46.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

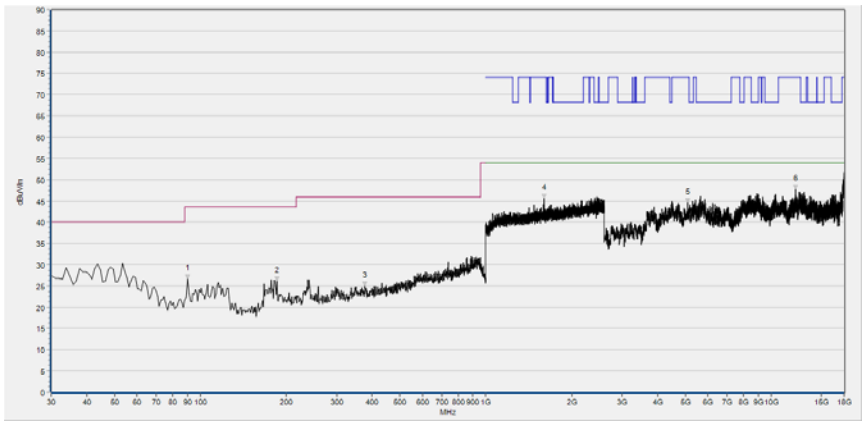
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
111.562	23.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
304.785	24.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
747.548	29.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1431.611	43.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5286.297	45.57	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8514.783	47.96	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

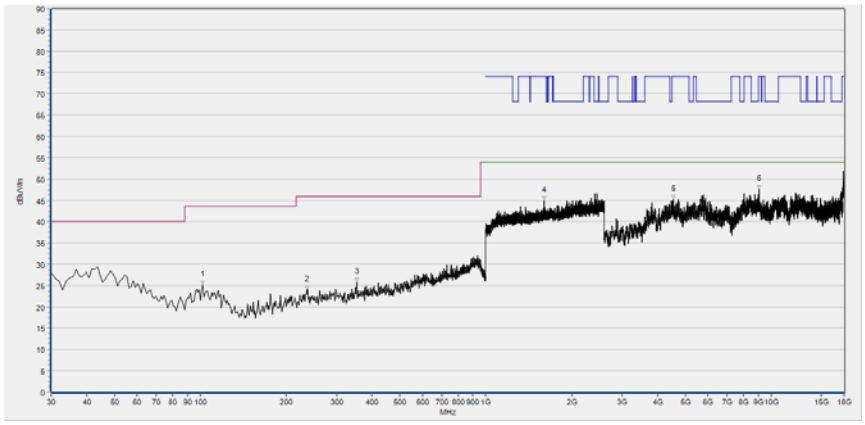
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	26.60	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
185.355	26.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
377.608	24.91	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1599.667	45.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5101.460	44.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12180.716	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

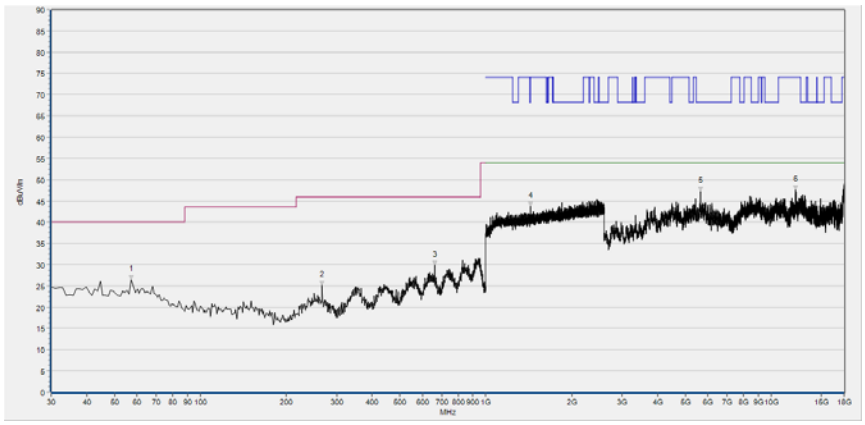
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	25.20	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	23.97	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
353.333	25.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1596.999	44.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4534.627	45.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9078.536	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

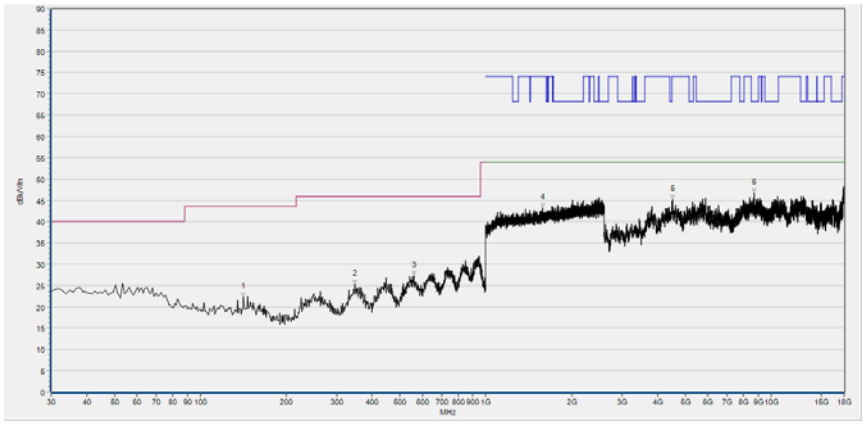
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
57.187	26.45	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
266.917	25.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
662.102	29.83	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1434.812	43.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5665.213	47.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12183.797	47.55	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

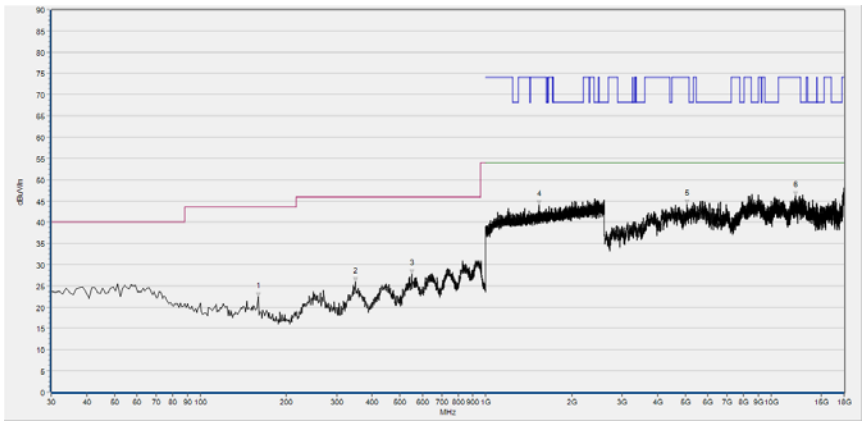
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
141.662	22.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
347.508	25.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
560.150	27.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1580.994	43.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4506.901	45.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8730.426	46.78	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

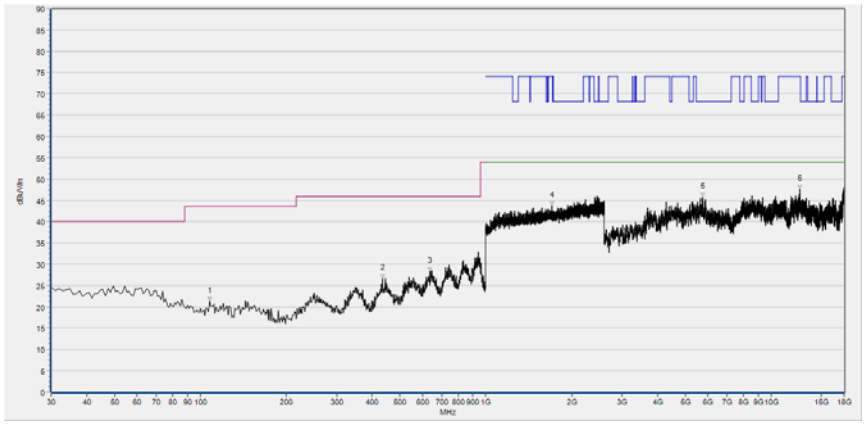
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
159.139	22.40	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
348.478	25.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
550.440	27.82	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1540.447	44.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5052.170	44.17	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12159.152	46.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

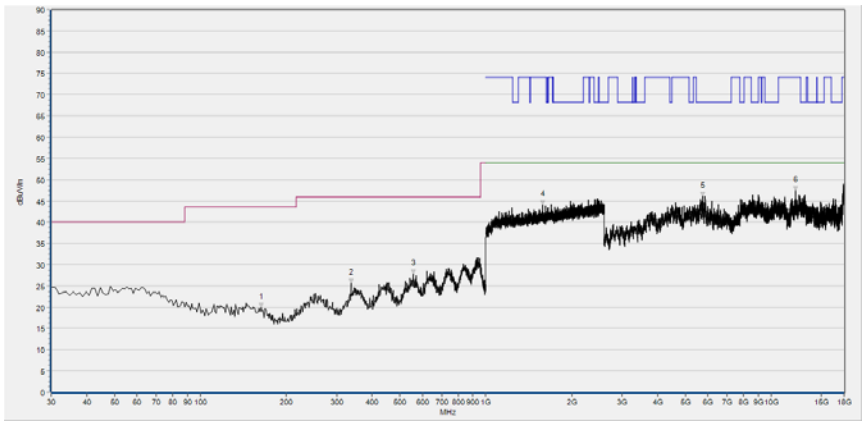
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
107.678	21.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
433.924	26.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
635.886	28.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1707.436	43.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5748.390	45.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12581.196	47.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

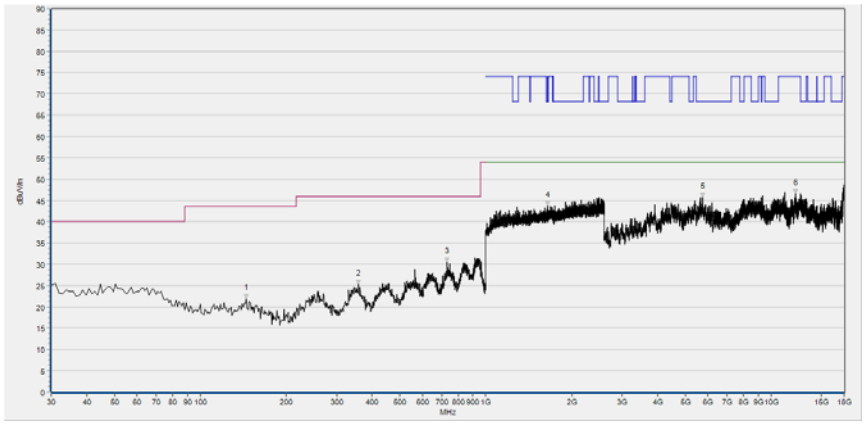
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
163.023	19.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
336.827	25.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
556.266	27.80	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1578.860	44.11	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5751.470	46.01	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12149.910	47.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

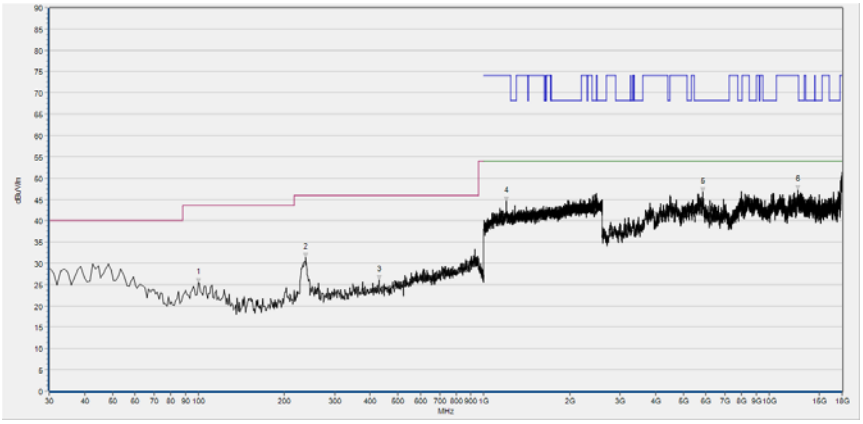


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
144.575	21.98	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
358.188	25.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
732.012	30.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1647.683	43.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5748.390	45.67	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12162.232	46.54	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

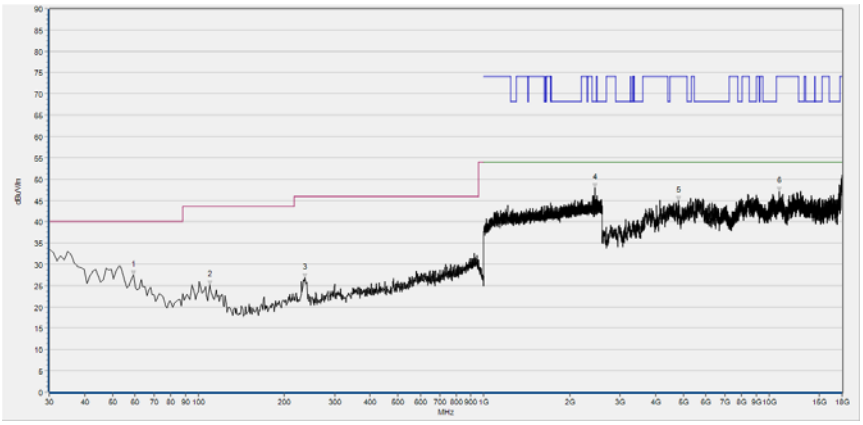
802.11ac (VHT40) mode

Plot for Channel 38



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
99.910	25.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	31.41	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
429.069	26.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1201.134	44.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5859.292	46.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12627.405	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

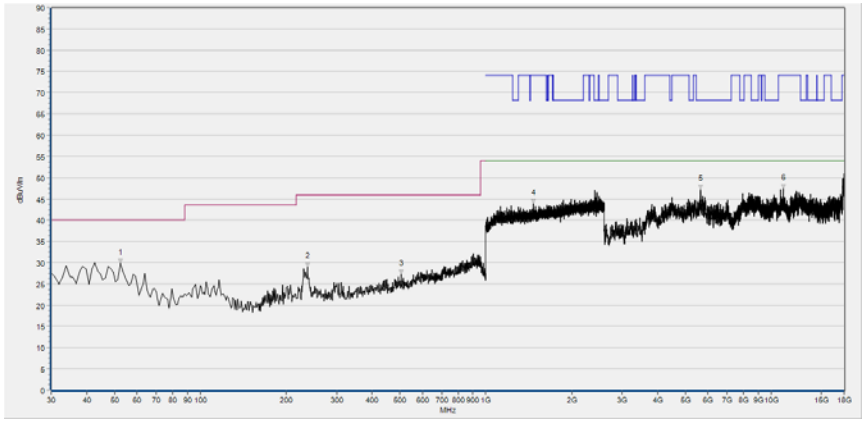
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
59.129	27.56	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
109.620	25.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	26.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2450.617	47.97	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4818.044	44.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10846.809	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

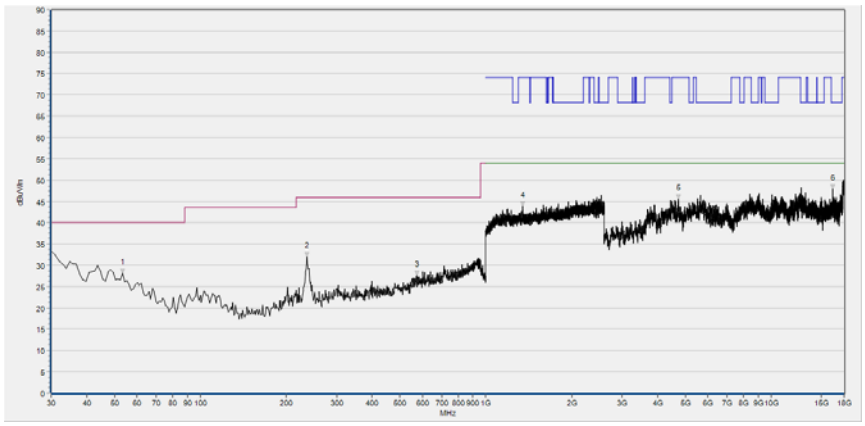
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
52.332	29.76	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
236.817	29.02	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
504.805	27.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1468.423	43.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5643.649	47.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10997.760	47.48	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

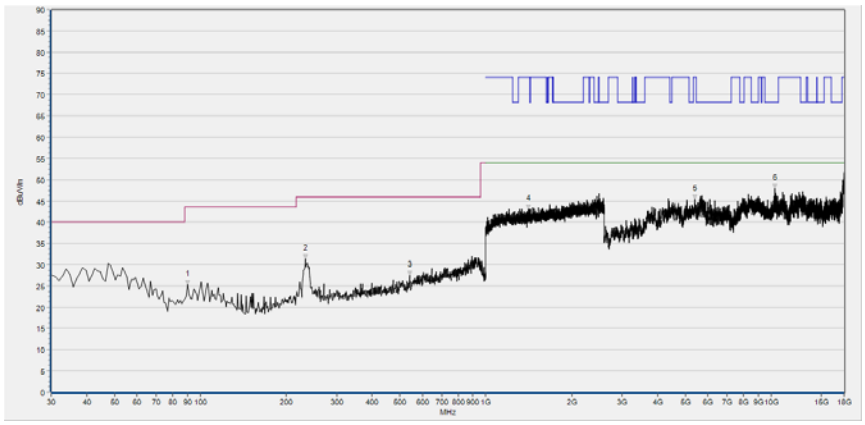
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.303	28.10	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
235.846	31.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
572.773	27.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1346.782	43.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4722.545	45.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
16431.966	47.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

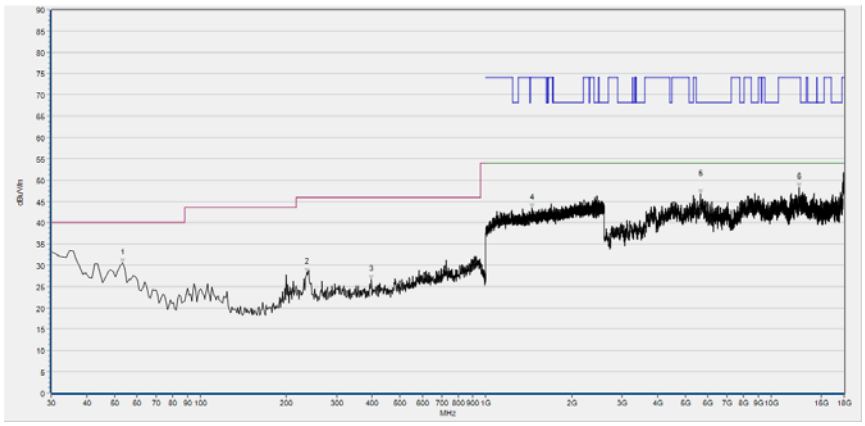
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	25.32	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.933	31.42	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
540.731	27.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1407.069	43.12	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5409.522	45.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10295.379	47.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

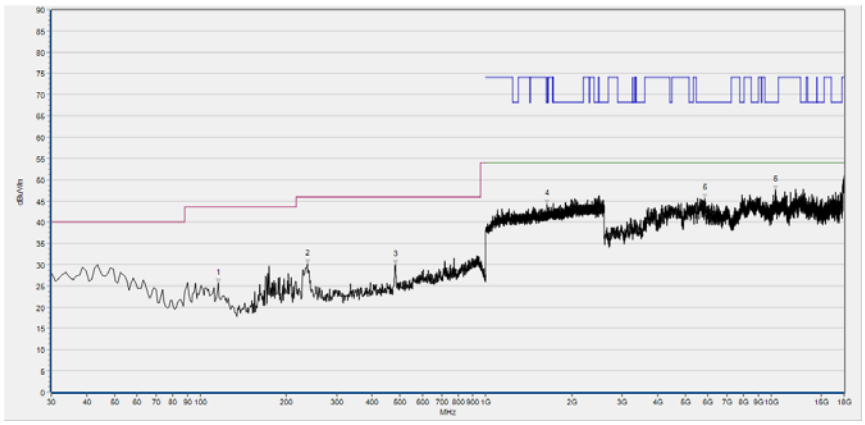
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.303	30.57	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
235.846	28.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
397.027	26.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1447.082	43.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5662.132	46.77	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12528.826	48.21	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

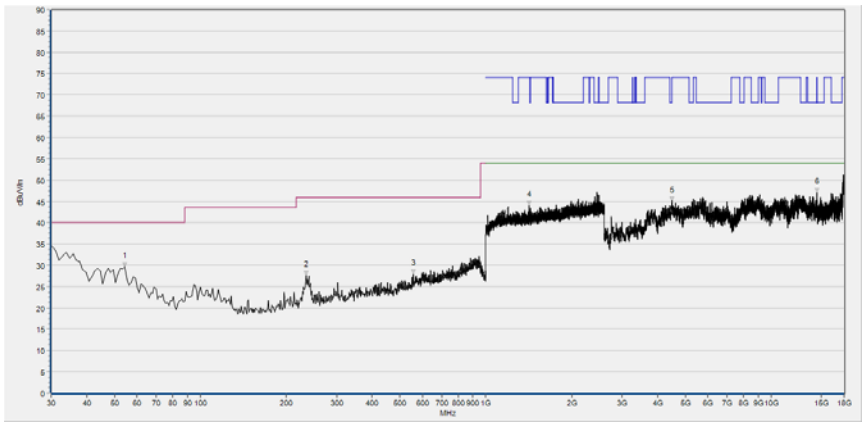
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
115.445	25.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	30.09	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
482.472	30.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1638.613	44.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5859.292	45.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10350.830	47.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

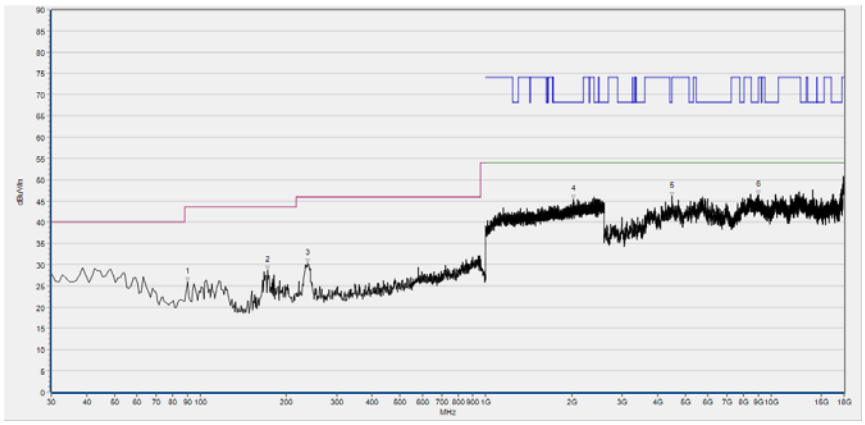
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
54.274	29.67	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
234.875	27.68	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
557.237	27.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1416.139	44.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4485.337	45.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14420.324	47.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

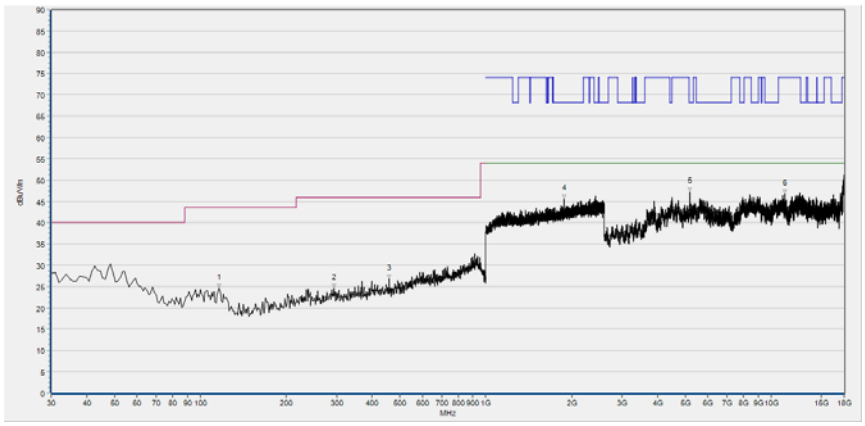
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
90.200	25.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
171.762	28.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	30.36	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2030.210	45.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4494.579	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9010.762	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

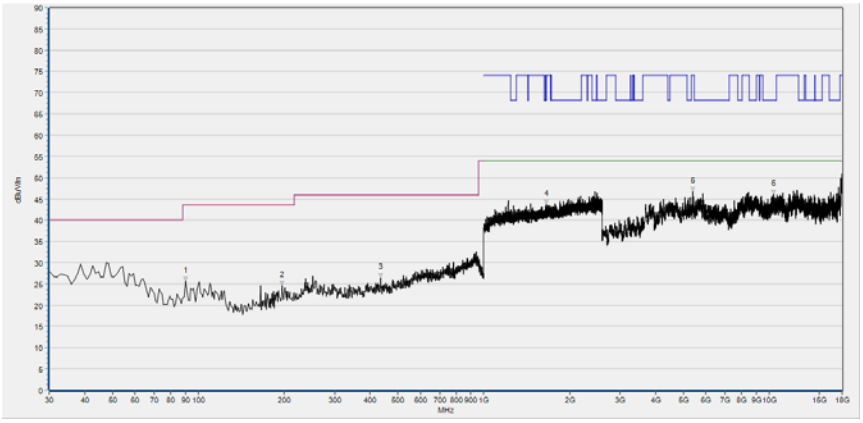
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
116.416	24.58	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
293.133	24.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
459.169	26.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1880.293	45.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5184.637	47.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11136.387	46.78	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

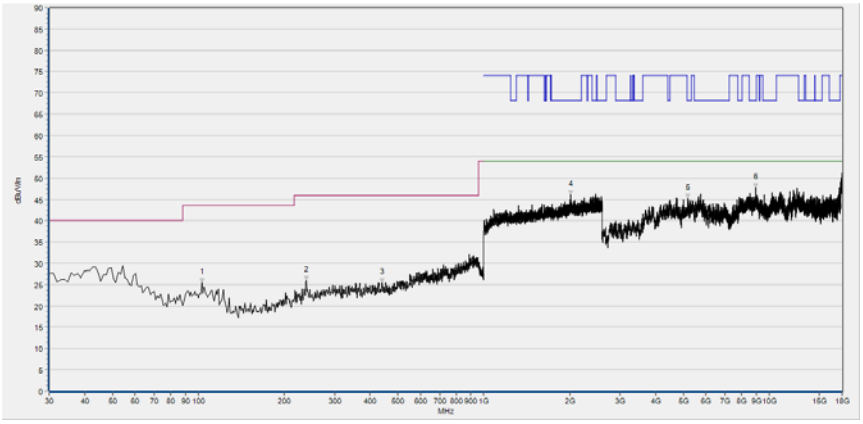
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	25.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
196.036	24.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
434.895	26.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1659.953	43.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5387.958	46.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10341.588	46.11	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

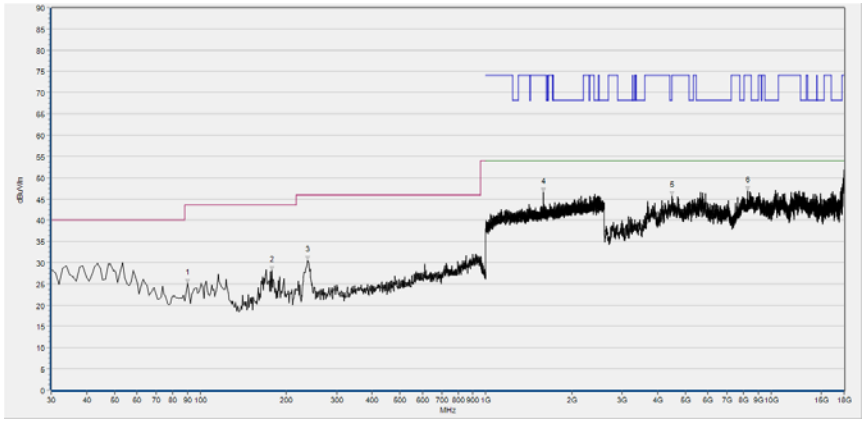
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
102.823	25.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.759	25.96	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
438.779	25.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2019.540	46.05	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5190.798	45.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8976.875	47.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

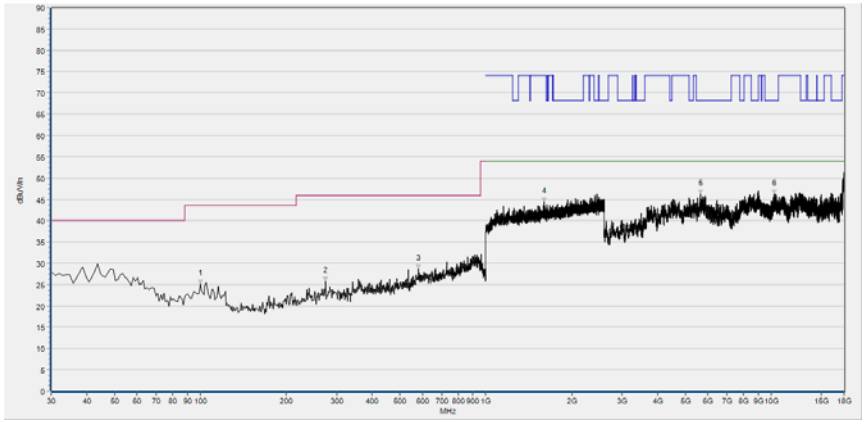
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.200	25.17	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
177.588	28.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	30.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1594.331	46.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4497.660	45.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8256.011	46.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

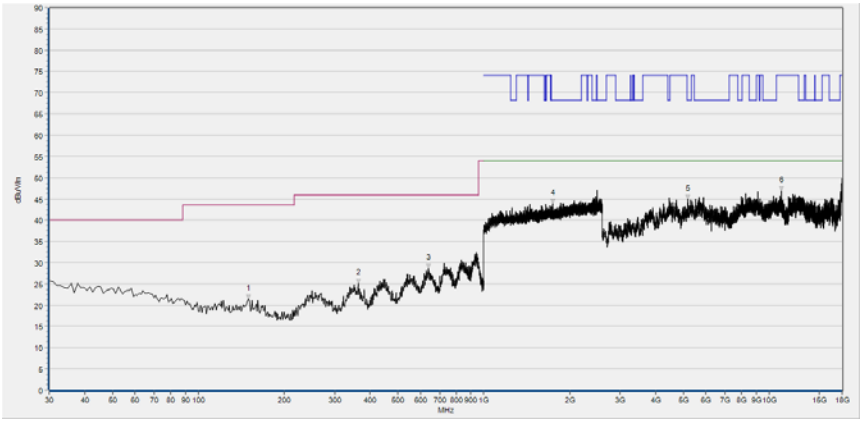
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
99.910	25.16	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
274.685	25.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
581.512	28.67	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1595.932	44.34	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5637.487	46.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10224.525	46.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

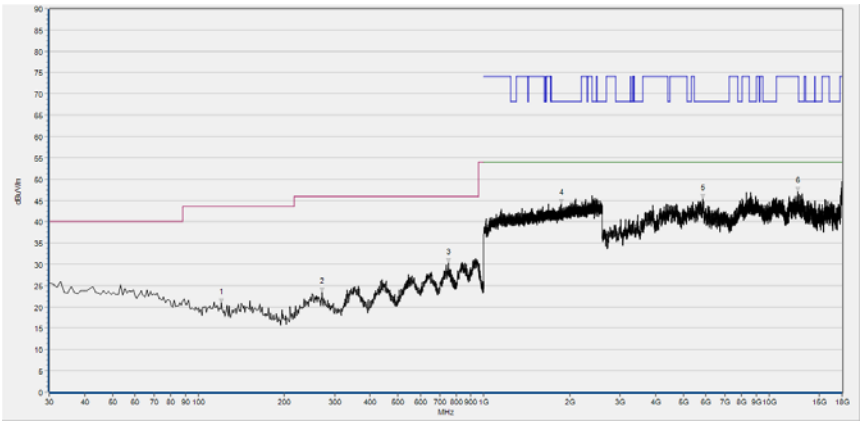
(Antenna Vertical, 30MHz to 18GHz)

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
149.429	21.50	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
363.043	25.18	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
638.799	28.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1739.446	43.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5184.637	44.93	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11019.324	47.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

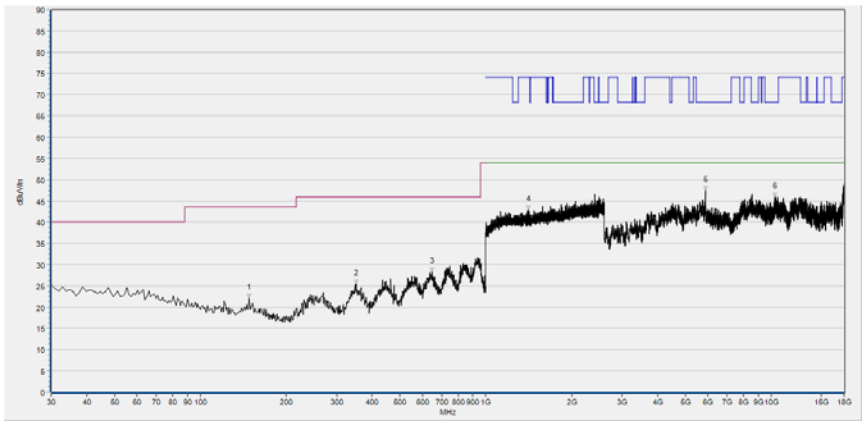
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
120.300	20.89	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
271.772	23.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
751.431	30.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1868.023	44.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5862.372	45.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12615.083	47.05	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

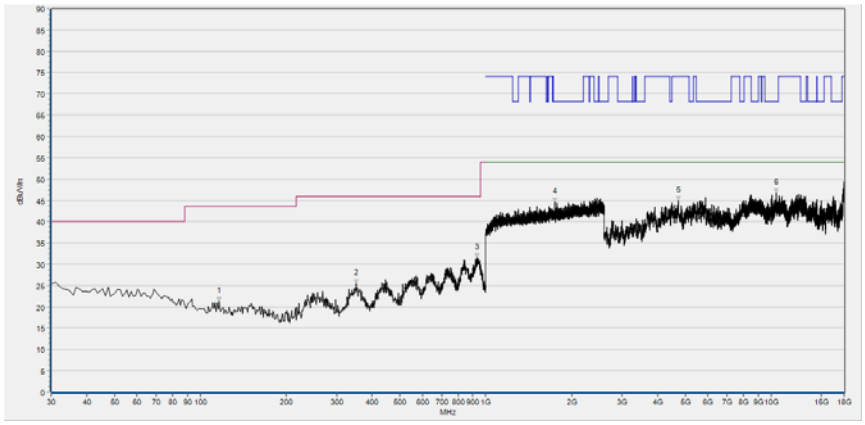
(Antenna Vertical, 30MHz to 18GHz)

Plot 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
148.458	22.12	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
351.391	25.50	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
648.509	28.34	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1408.136	42.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5868.534	47.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10307.702	45.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

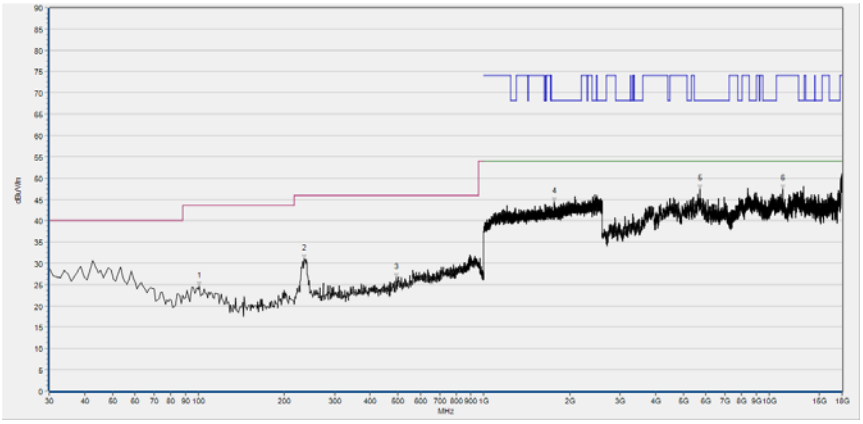


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
116.416	21.22	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
351.391	25.49	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
933.003	31.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1745.849	44.56	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4728.706	44.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10424.765	46.69	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

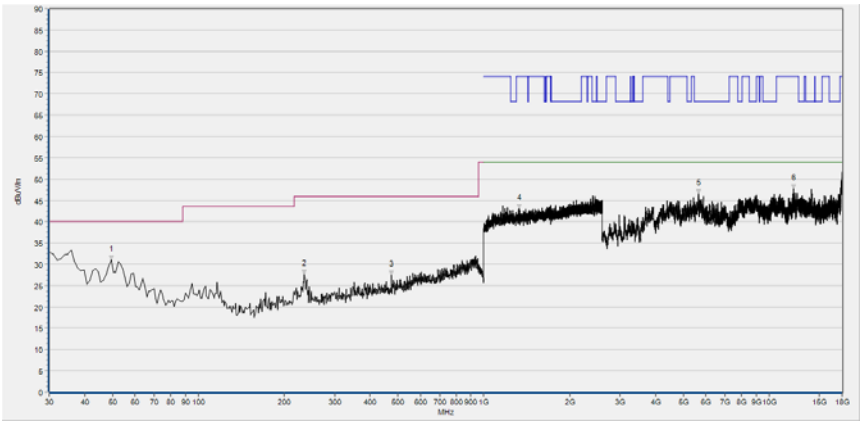
802.11ac (VHT80) Mode

Plot for Channel 42



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
100.881	24.65	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
234.875	30.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
495.095	26.60	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1768.256	44.41	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5723.745	47.36	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11145.629	47.49	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

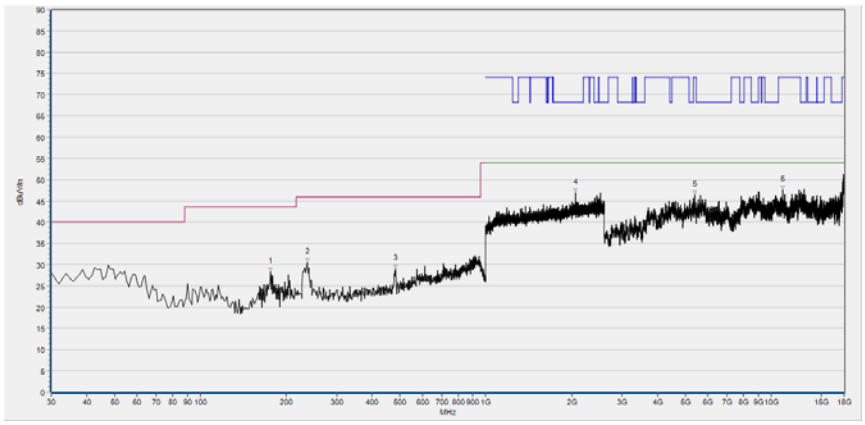
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBµV/m)	QP (dBµV/m)	AV (dBµV/m)	Limit-PK (dBµV/m)	Limit-QP (dBµV/m)	Limit-AV (dBµV/m)	Antenna	Verdict
49.419	31.06	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
234.875	27.65	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
474.705	27.45	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1330.777	43.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5655.971	46.58	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12146.829	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

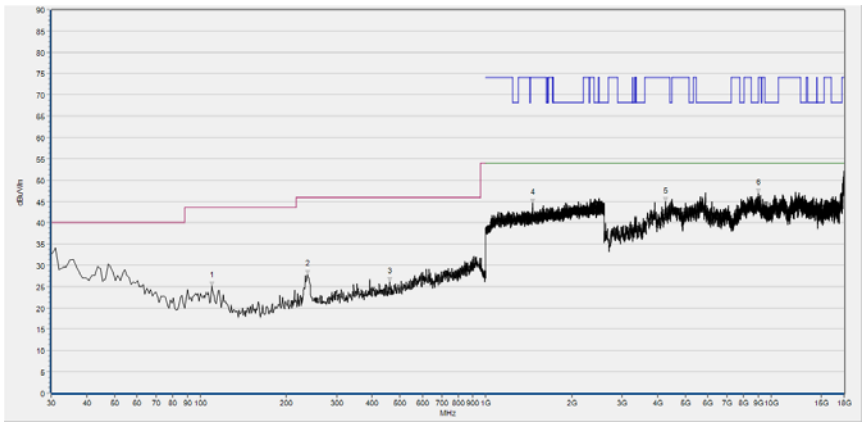
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



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
175.646	28.25	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
236.817	30.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
483.443	28.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2064.888	46.84	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5397.199	46.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10991.598	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

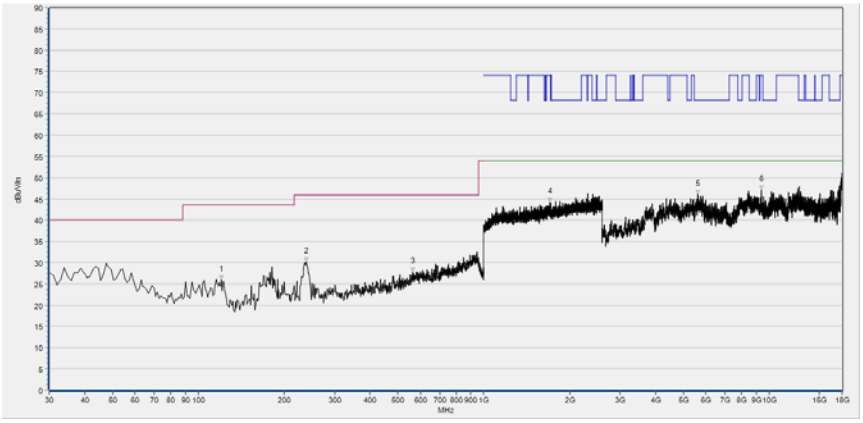
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.620	25.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.817	27.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
460.140	26.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1455.619	44.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4269.694	44.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8992.278	46.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

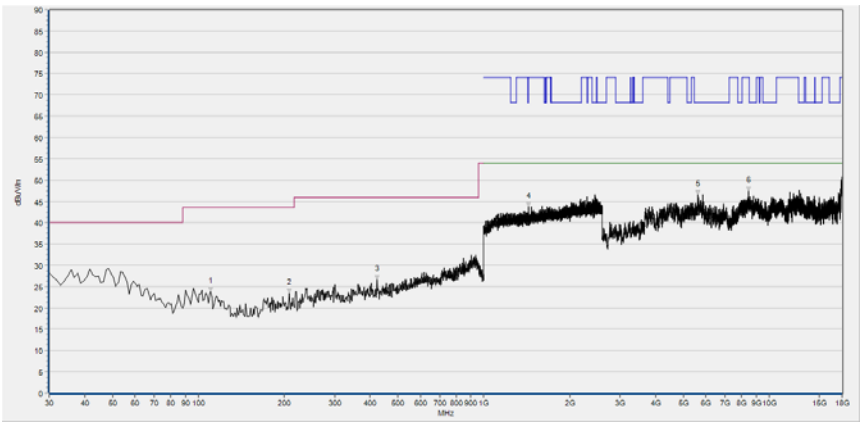
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106



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
120.300	25.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	30.11	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
564.034	27.87	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1702.101	44.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5606.681	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9383.517	47.07	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

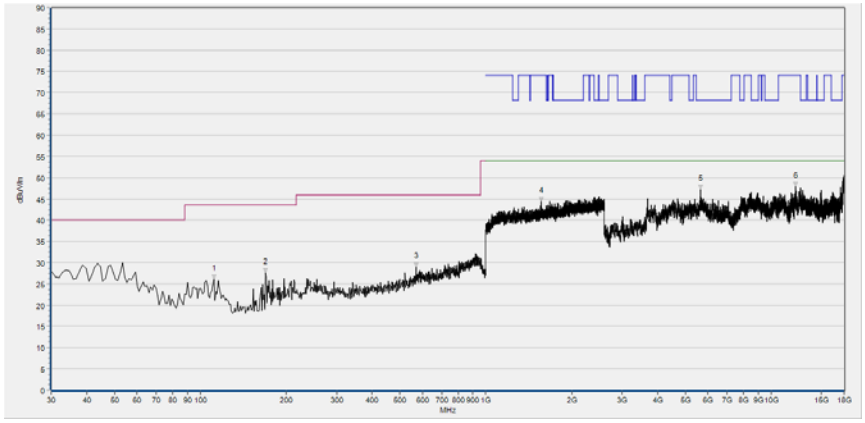
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	23.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
207.688	23.52	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
422.272	26.70	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1432.144	43.73	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5619.004	46.59	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8474.735	47.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

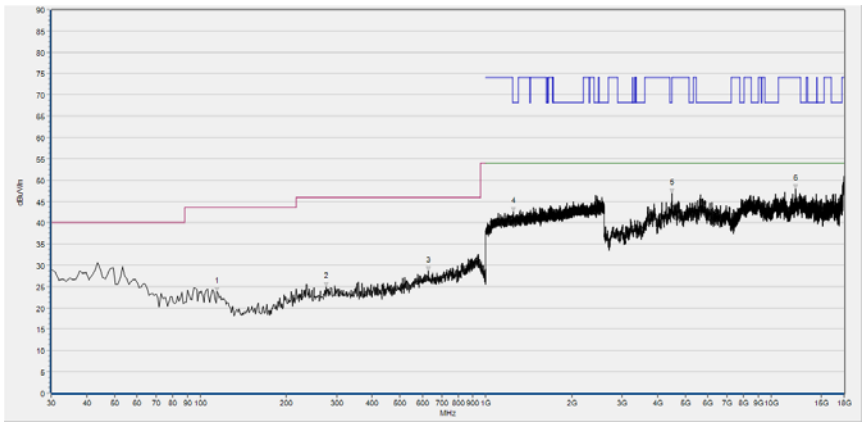
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



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
111.562	26.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
168.849	27.61	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
568.889	28.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1564.988	44.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.729	47.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12162.232	47.97	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

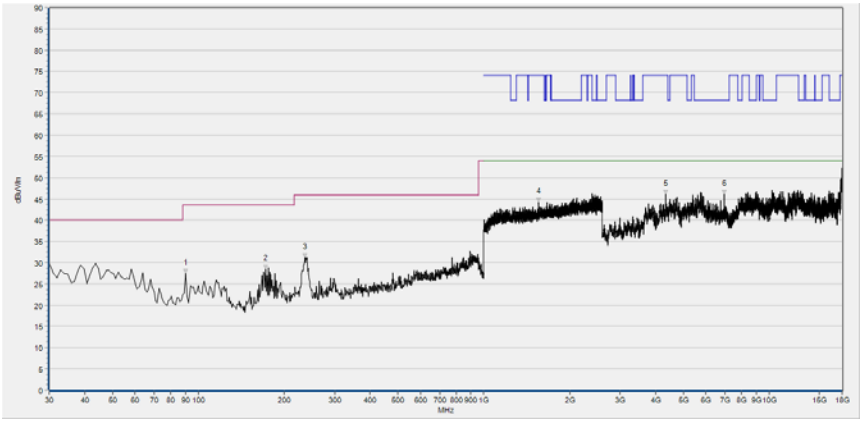
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
114.474	23.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
275.656	24.99	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
629.089	28.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1245.949	42.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4497.660	46.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12196.119	47.87	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

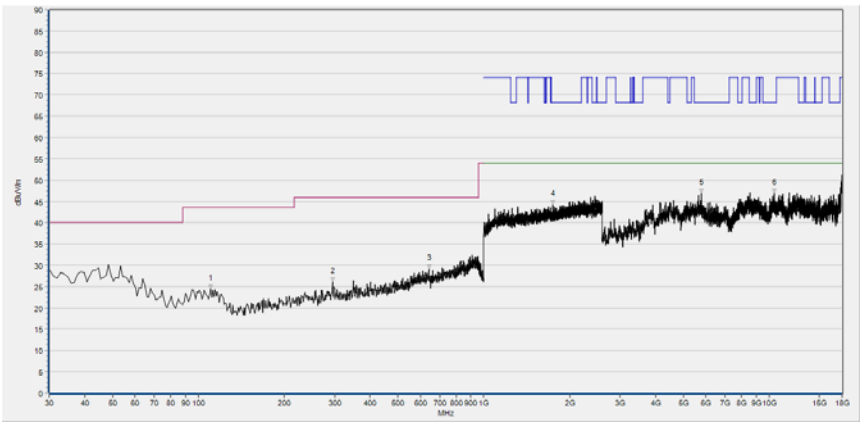
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



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	27.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
171.762	28.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
235.846	31.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1558.053	44.21	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4343.629	46.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6959.072	46.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

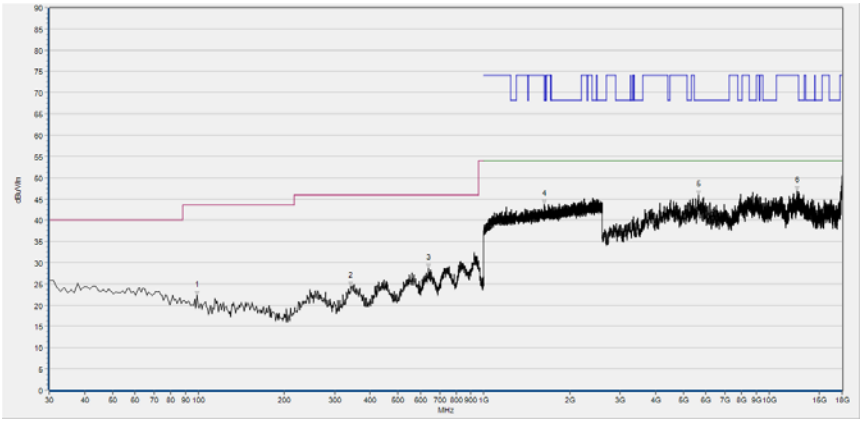
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
110.591	24.44	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
295.075	26.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
642.683	29.11	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1743.181	44.29	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5788.438	47.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10397.039	46.96	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

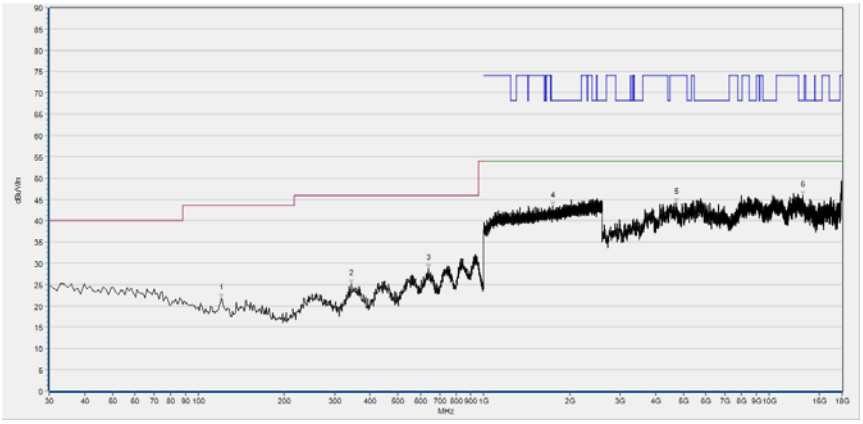
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



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	22.33	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
341.682	24.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
639.770	28.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1630.077	43.77	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5643.649	45.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12498.020	46.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
120.300	21.75	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
343.624	25.16	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
640.741	28.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1741.581	43.34	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4737.948	44.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13111.062	45.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Annex A Test Uncertainty

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

Test items	Uncertainty
Peak Output Power	±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

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

2. Identification of the Responsible Testing Location

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

3. Facilities and Accreditations

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

4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Attenuator 1	N/A	10dB	Resnet	N/A	N/A
EXA Signal Analzyer	MY53470836	N9010A	Agilent	2020.04.01	2021.03.31
USB Wideband Power Sensor	MY54210011	U202IXA	Agilent	2020.04.01	2021.03.31
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	12108015	DTL-003S101	YOMA	2020.01.08	2021.01.07

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Receiver	MY56400093	N9038A	KEYSIGHT	2020.03.26	2021.03.25
LISN	812744	NSLK 8127	Schwarzbeck	2020.03.26	2021.03.25
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2020.07.24	2021.07.23
Coaxial cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
ADAPTER	N/A	A1374	APPLE	N/A	N/A
EARPHONE	EMC-03	VIVO	N/A	N/A	N/A

4.3 List of Software Used

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

4.4Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due
Receiver	MY54130016	N9038A	Agilent	2020.07.21	2021.07.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.24	2022.05.23
Test Antenna - Horn	BBHA9170 #774	BBHA9170	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.02.14	2022.02.13
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable(N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial cable(N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2020.07.21	2021.07.20
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2020.07.21	2021.07.20
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2020.07.21	2021.07.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

END OF REPORT