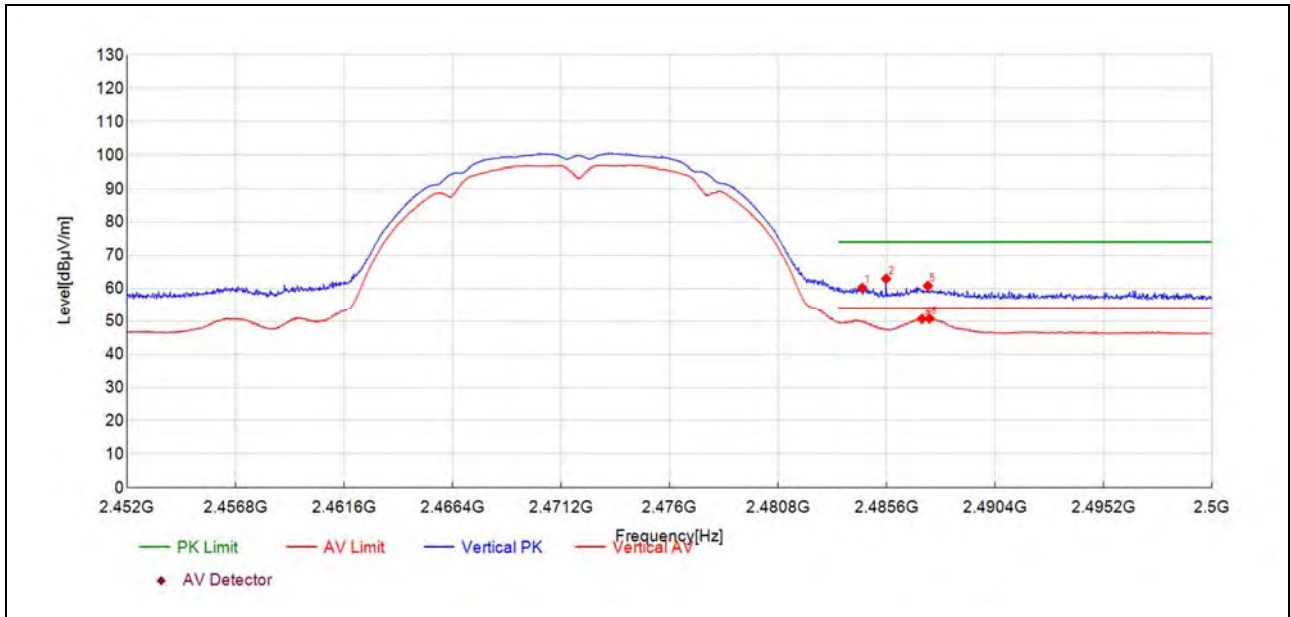




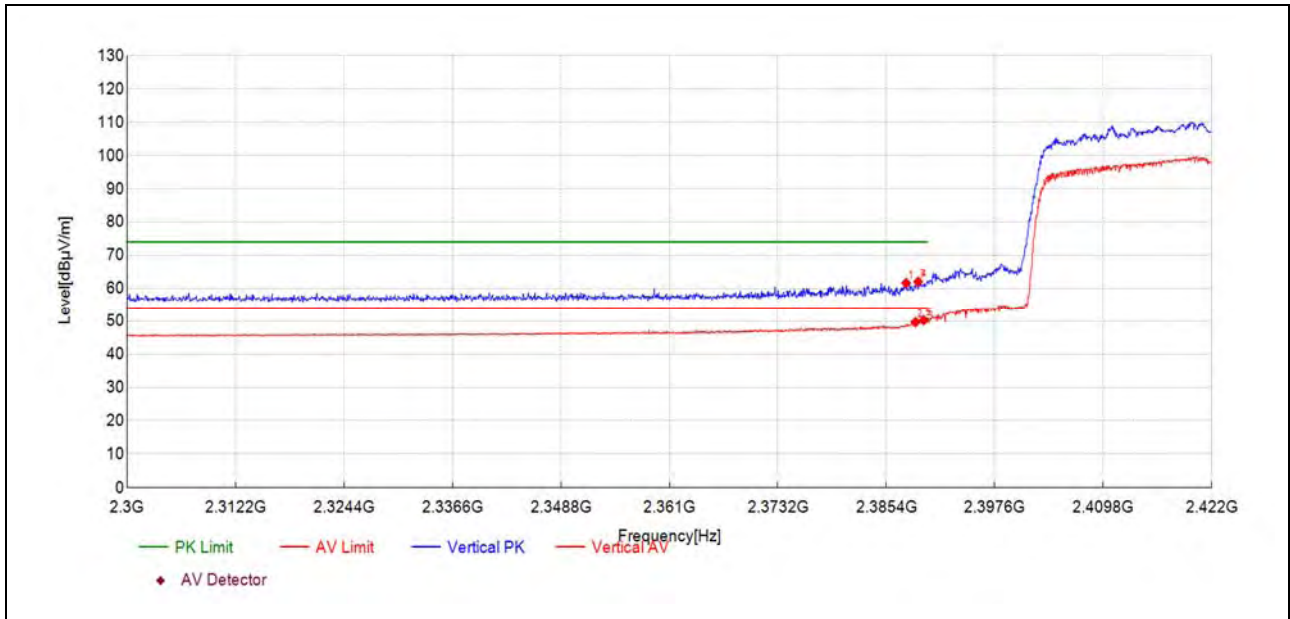
Plot for Channel 13



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2484.54	21.9	60.21	38.270	74.00	13.79	173	PK	Vertical	PASS
2485.59	24.7	62.97	38.270	74.00	11.03	155	PK	Vertical	PASS
2487.18	12.4	50.66	38.270	54.00	3.34	150	AV	Vertical	PASS
2487.27	12.6	50.88	38.270	54.00	3.12	150	AV	Vertical	PASS
2487.44	22.5	60.81	38.270	74.00	13.19	150	PK	Vertical	PASS
2487.51	12.5	50.76	38.270	54.00	3.24	155	AV	Vertical	PASS

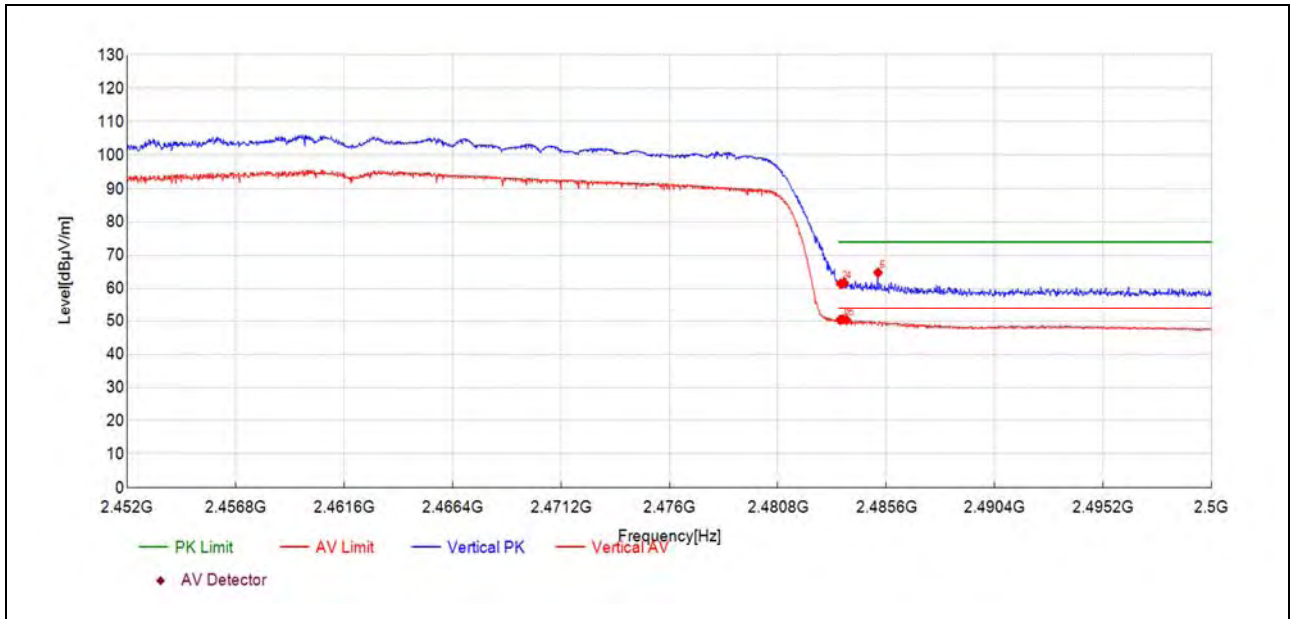
**802.11ax (HEW40) Mode**

Plot for Channel 3



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2387.64	24.2	61.67	37.490	74.00	12.33	132	PK	Vertical	PASS
2388.68	12.1	49.63	37.490	54.00	4.37	137	AV	Vertical	PASS
2388.98	24.6	62.09	37.490	74.00	11.91	149	PK	Vertical	PASS
2389.17	24.7	62.21	37.490	74.00	11.79	149	PK	Vertical	PASS
2389.59	12.8	50.25	37.490	54.00	3.75	137	AV	Vertical	PASS
2389.84	12.9	50.36	37.490	54.00	3.64	144	AV	Vertical	PASS

Plot for Channel 11



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2483.55	12.0	50.29	38.280	54.00	3.71	131	AV	Vertical	PASS
2483.58	23.2	61.48	38.280	74.00	12.52	150	PK	Vertical	PASS
2483.67	12.2	50.48	38.280	54.00	3.52	131	AV	Vertical	PASS
2483.74	23.4	61.69	38.280	74.00	12.31	146	PK	Vertical	PASS
2483.84	12.0	50.28	38.270	54.00	3.72	141	AV	Vertical	PASS
2485.23	26.5	64.80	38.270	74.00	9.20	141	PK	Vertical	PASS



A.10. Radiated Emission

According to ANSI C63.10, 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 (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

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

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

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

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis (X axis) test condition was recorded in this test report.

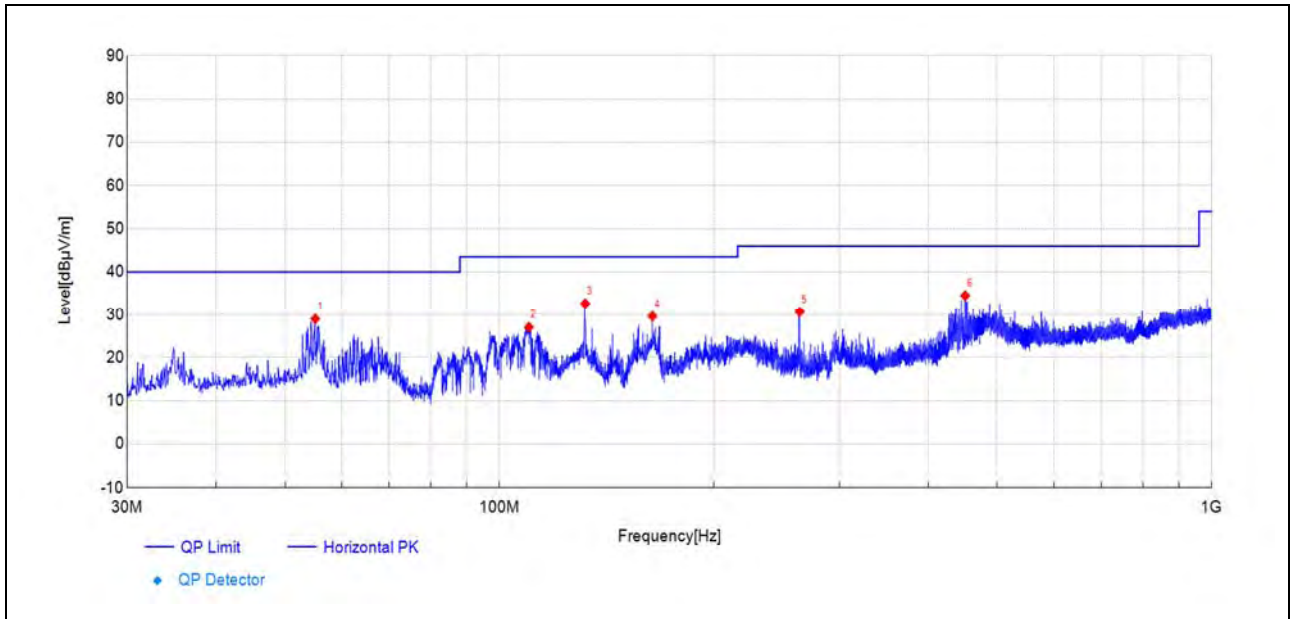
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded.

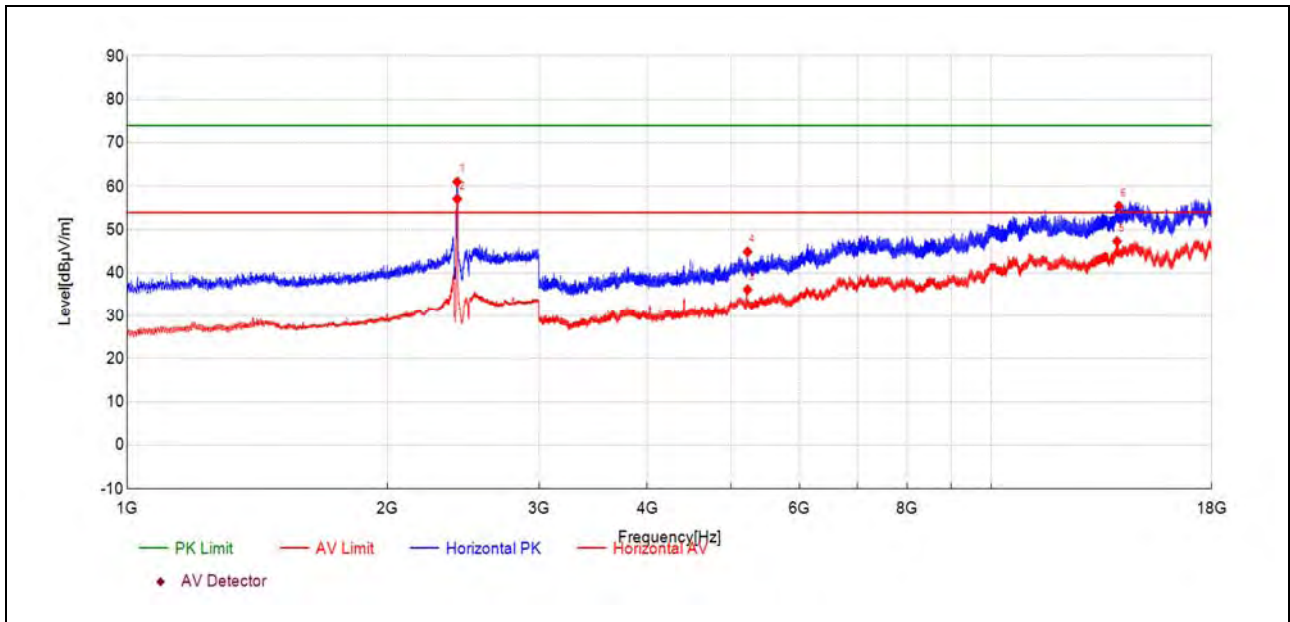
**802.11b Mode**

Plot for Channel 1



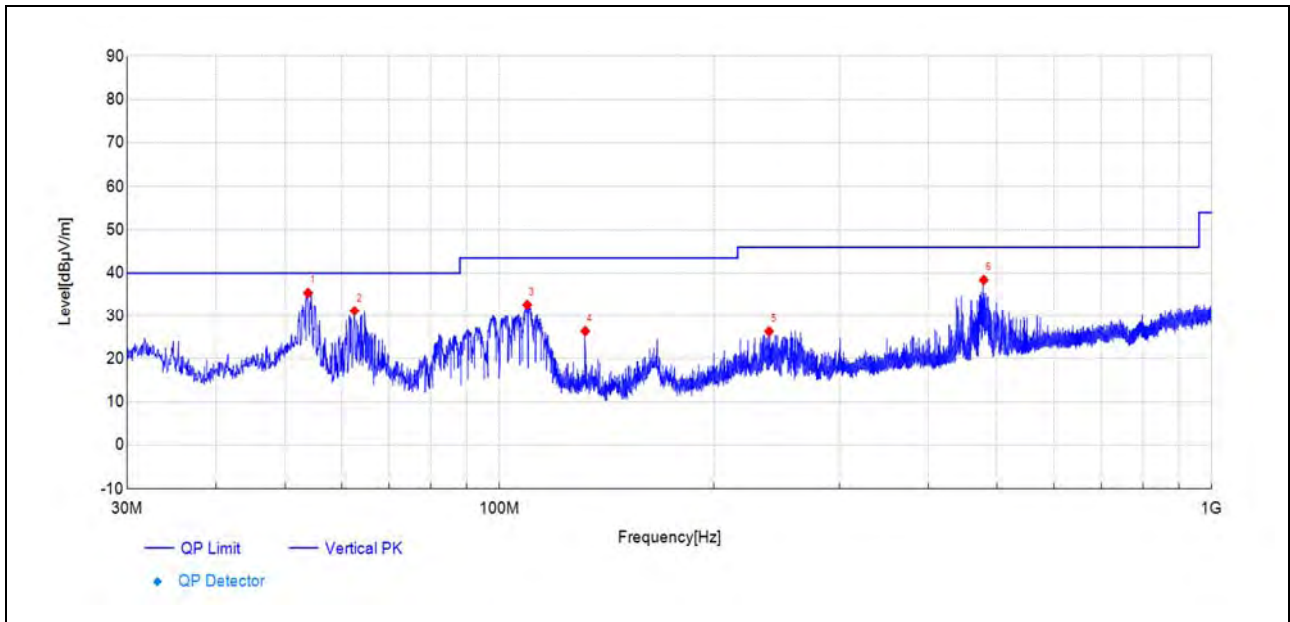
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
55.12	50.9	28.97	-21.910	40.00	11.03	3	PK	Horizontal	PASS
109.98	49.9	27.04	-22.830	43.50	16.46	293	PK	Horizontal	PASS
131.95	59.0	32.64	-26.320	43.50	10.86	63	PK	Horizontal	PASS
163.96	54.7	29.60	-25.120	43.50	13.90	163	PK	Horizontal	PASS
263.98	52.3	30.65	-21.630	46.00	15.35	11	PK	Horizontal	PASS
450.66	50.1	34.48	-15.640	46.00	11.52	58	PK	Horizontal	PASS



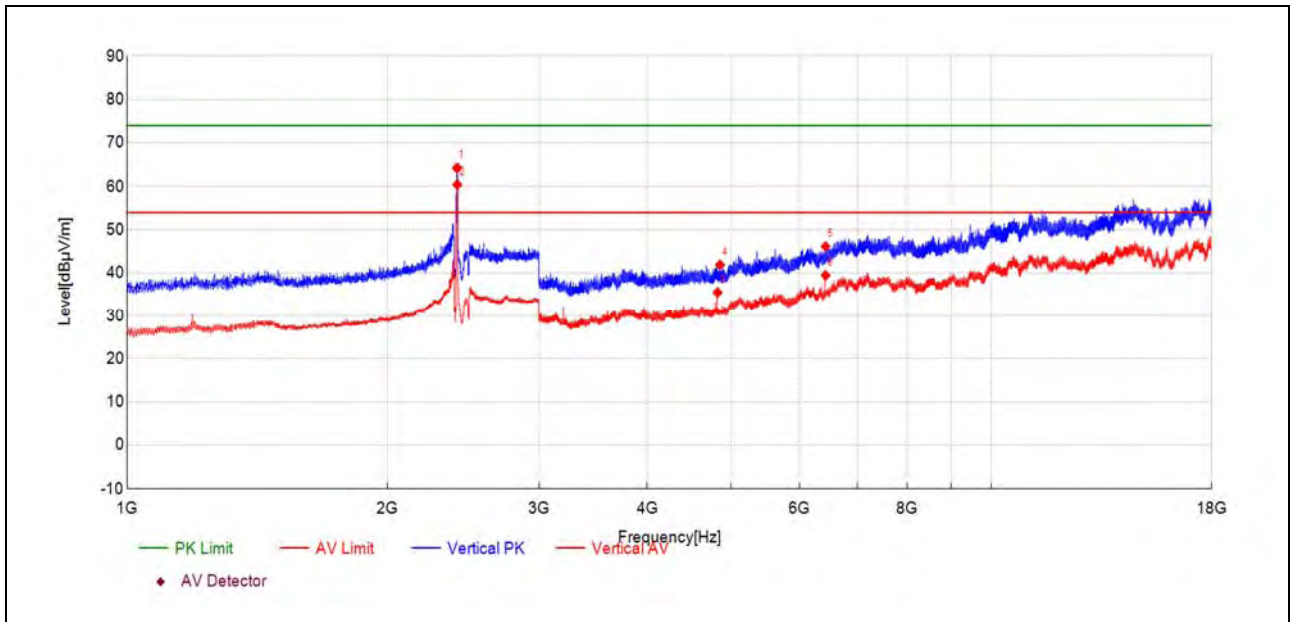
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2410.68	55.7	61.08	5.380	-	-	266	PK	Horizontal	NA
2411.08	51.8	57.15	5.390	-	-	261	AV	Horizontal	NA
5225.21	39.4	36.15	-3.250	54.00	17.85	175	AV	Horizontal	PASS
5225.64	48.2	44.92	-3.230	74.00	29.08	94	PK	Horizontal	PASS
13988.03	28.7	47.35	18.620	54.00	6.65	215	AV	Horizontal	PASS
14052.74	36.5	55.51	19.060	74.00	18.49	203	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

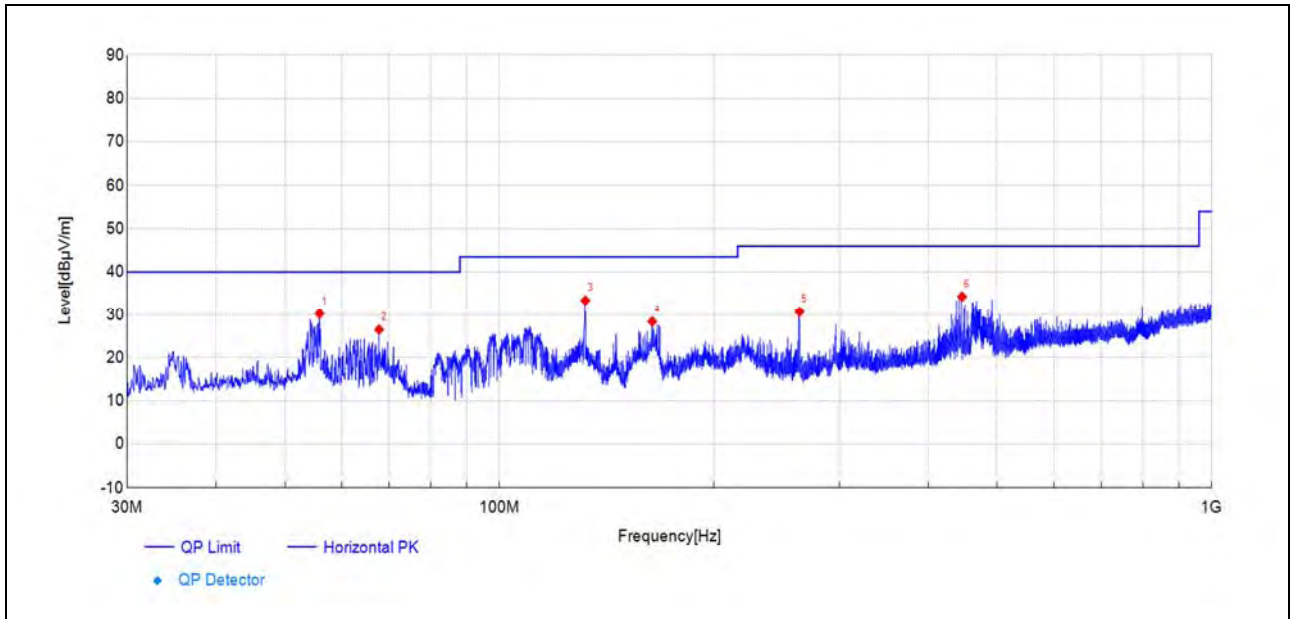
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
53.86	57.1	35.40	-21.700	40.00	4.60	337	PK	Vertical	PASS
62.59	54.1	31.15	-22.930	40.00	8.85	129	PK	Vertical	PASS
109.40	55.4	32.62	-22.770	43.50	10.88	321	PK	Vertical	PASS
131.95	52.7	26.36	-26.320	43.50	17.14	30	PK	Vertical	PASS
239.05	48.3	26.29	-21.960	46.00	19.71	243	PK	Vertical	PASS
478.45	53.6	38.41	-15.210	46.00	7.59	77	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

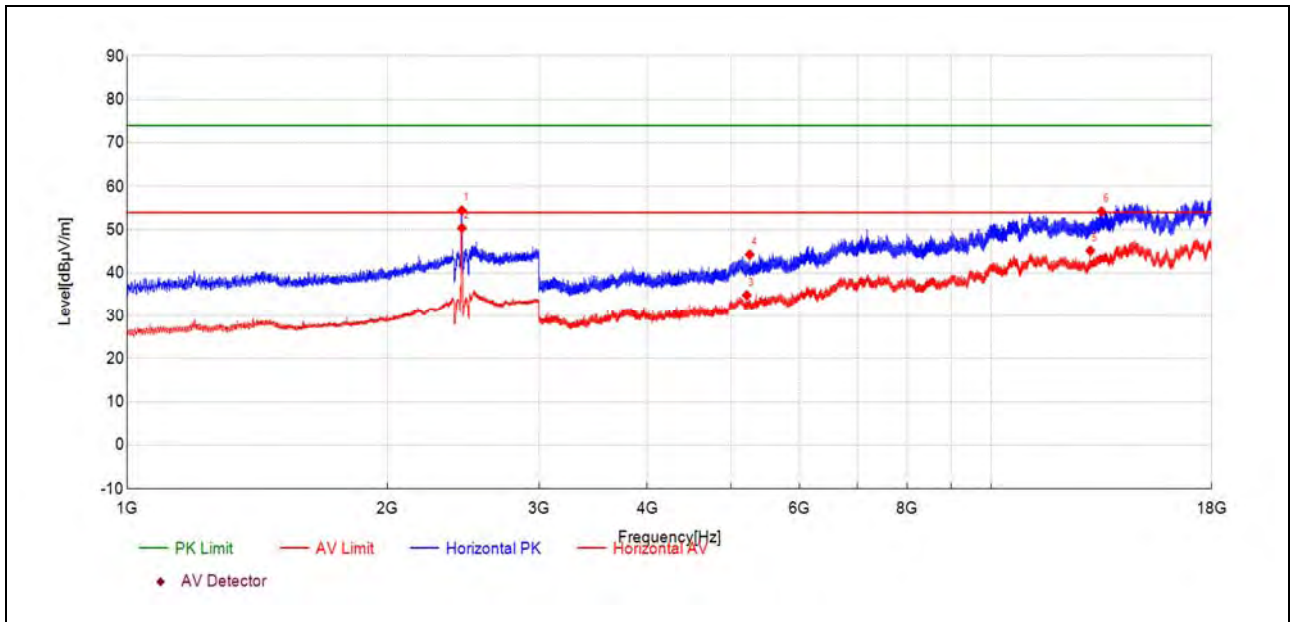
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2410.28	58.9	64.24	5.370	-	-	141	PK	Vertical	NA
2411.08	55.1	60.48	5.390	-	-	141	AV	Vertical	NA
4824.48	40.5	35.50	-4.990	54.00	18.50	243	AV	Vertical	PASS
4855.77	46.8	41.91	-4.850	74.00	32.09	133	PK	Vertical	PASS
6432.10	44.8	46.17	1.370	74.00	27.83	297	PK	Vertical	PASS
6432.53	38.1	39.49	1.390	54.00	14.51	120	AV	Vertical	PASS

Plot for Channel 7



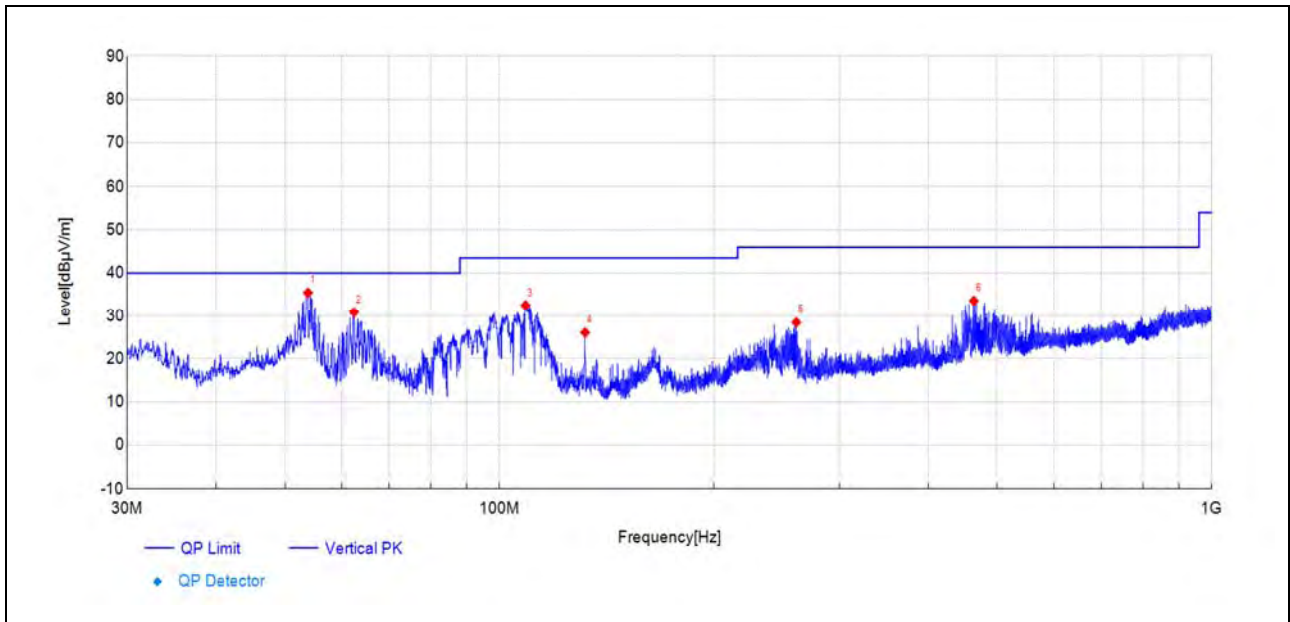
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
55.90	52.4	30.22	-22.130	40.00	9.78	49	PK	Horizontal	PASS
67.78	51.7	26.50	-25.190	40.00	13.50	137	PK	Horizontal	PASS
132.00	59.7	33.36	-26.340	43.50	10.14	100	PK	Horizontal	PASS
163.87	53.5	28.37	-25.140	43.50	15.13	304	PK	Horizontal	PASS
263.83	52.3	30.68	-21.650	46.00	15.32	1	PK	Horizontal	PASS
446.20	50.0	34.27	-15.720	46.00	11.73	59	PK	Horizontal	PASS



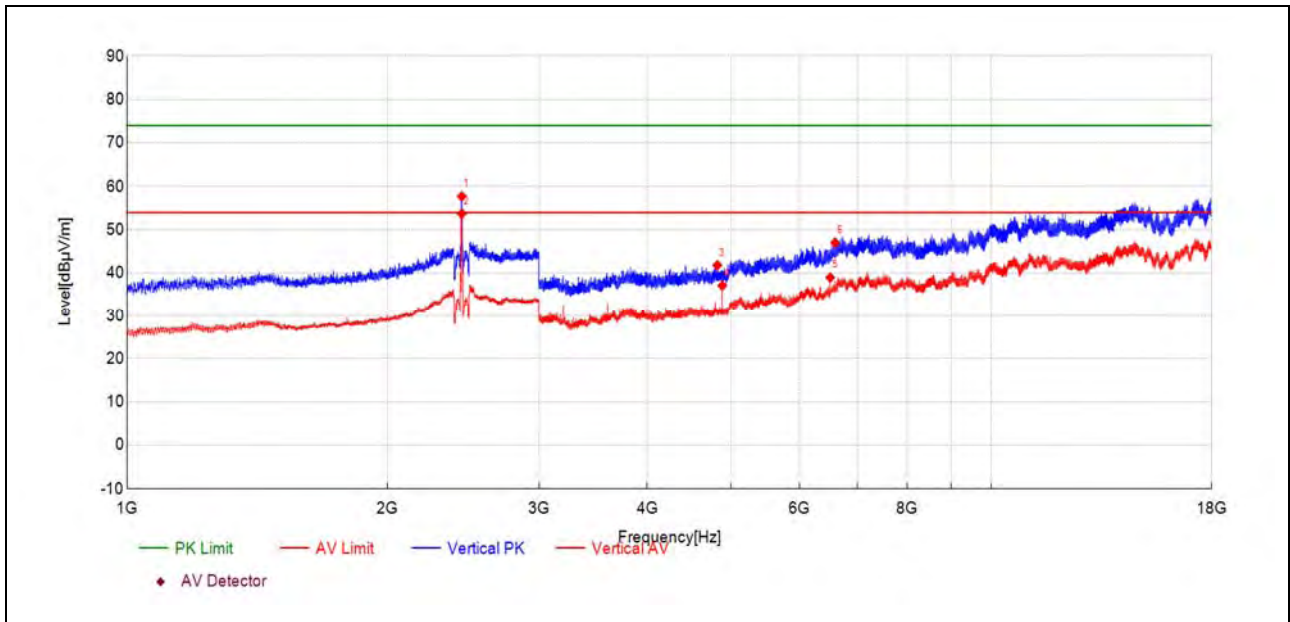
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2440.69	48.7	54.50	5.830	-	-	263	PK	Horizontal	NA
2441.09	44.6	50.39	5.840	-	-	263	AV	Horizontal	NA
5214.06	38.3	34.85	-3.420	54.00	19.15	311	AV	Horizontal	PASS
5255.64	47.1	44.28	-2.830	74.00	29.72	162	PK	Horizontal	PASS
13024.14	30.3	45.17	14.920	54.00	8.83	255	AV	Horizontal	PASS
13423.15	37.8	54.22	16.430	74.00	19.78	283	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

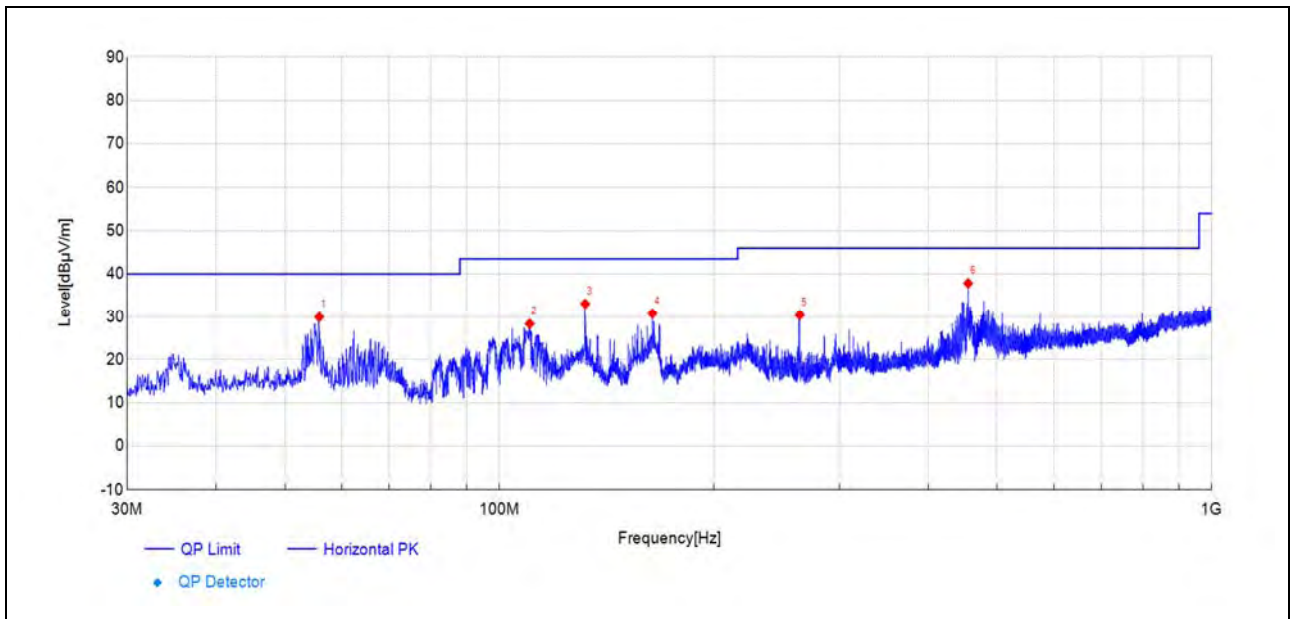
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
53.86	57.1	35.42	-21.700	40.00	4.58	329	PK	Vertical	PASS
62.50	53.7	30.81	-22.890	40.00	9.19	72	PK	Vertical	PASS
108.82	55.3	32.46	-22.790	43.50	11.04	334	PK	Vertical	PASS
131.90	52.4	26.06	-26.290	43.50	17.44	9	PK	Vertical	PASS
261.07	50.4	28.43	-21.970	46.00	17.57	72	PK	Vertical	PASS
463.51	49.5	33.51	-15.940	46.00	12.49	78	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

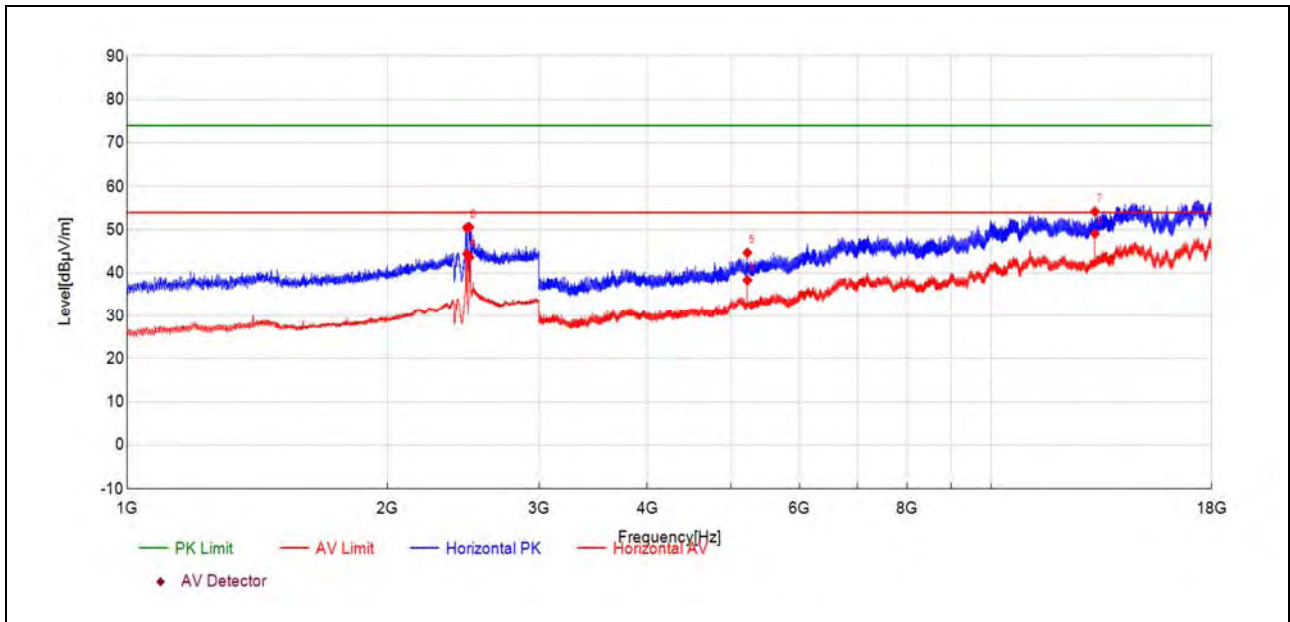
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2440.29	51.9	57.73	5.820	-	-	141	PK	Vertical	NA
2440.29	47.9	53.75	5.820	-	-	141	AV	Vertical	NA
4821.05	46.8	41.81	-5.020	74.00	32.19	324	PK	Vertical	PASS
4884.48	42.1	37.09	-5.030	54.00	16.91	256	AV	Vertical	PASS
6512.24	37.0	38.98	2.030	54.00	15.02	284	AV	Vertical	PASS
6598.82	43.9	47.02	3.160	74.00	26.98	272	PK	Vertical	PASS

Plot for Channel 13



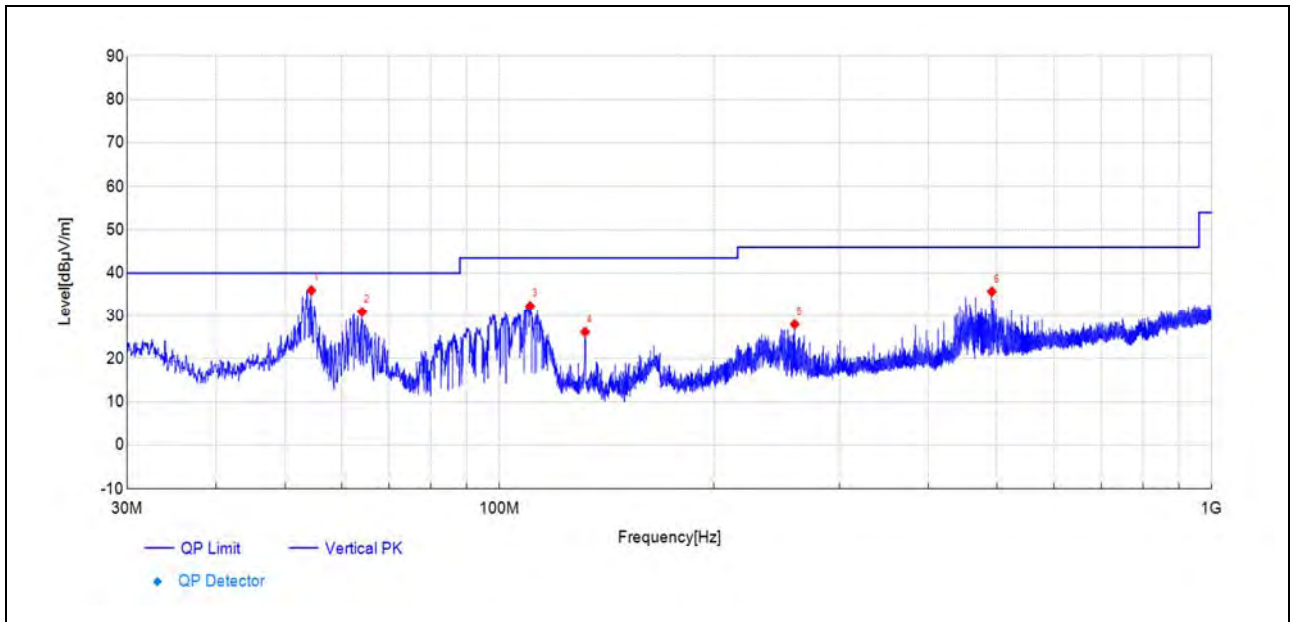
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
55.85	52.0	29.89	-22.120	40.00	10.11	49	PK	Horizontal	PASS
110.27	51.2	28.34	-22.820	43.50	15.16	221	PK	Horizontal	PASS
131.95	59.4	33.03	-26.320	43.50	10.47	76	PK	Horizontal	PASS
163.96	55.9	30.74	-25.120	43.50	12.76	324	PK	Horizontal	PASS
264.02	52.0	30.36	-21.630	46.00	15.64	2	PK	Horizontal	PASS
455.03	53.6	37.84	-15.730	46.00	8.16	60	PK	Horizontal	PASS



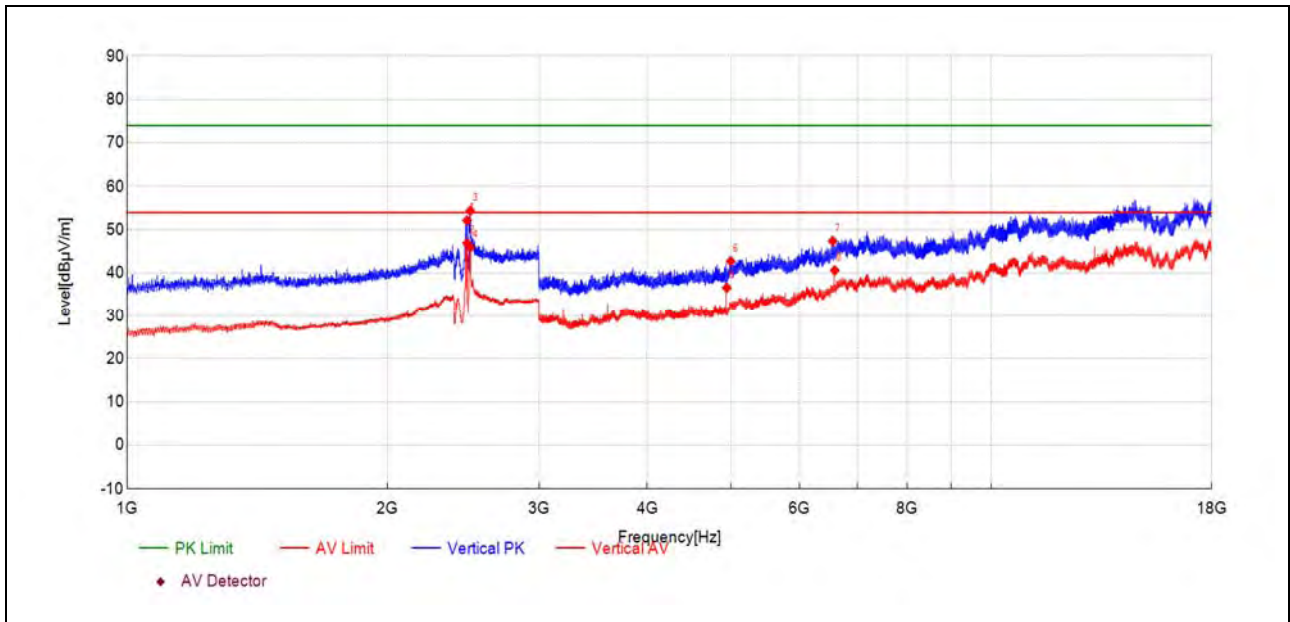
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2473.49	44.6	50.46	5.910	-	-	261	PK	Horizontal	NA
2475.10	38.6	44.46	5.910	-	-	267	AV	Horizontal	NA
2489.90	44.7	50.59	5.860	74.00	23.41	261	PK	Horizontal	PASS
2490.30	37.8	43.66	5.860	54.00	10.34	256	AV	Horizontal	PASS
5222.63	48.0	44.68	-3.290	74.00	29.32	337	PK	Horizontal	PASS
5222.63	41.7	38.36	-3.290	54.00	15.64	337	AV	Horizontal	PASS
13184.01	38.6	54.24	15.600	74.00	19.76	256	PK	Horizontal	PASS
13184.43	33.5	49.12	15.600	54.00	4.88	256	AV	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
54.45	57.8	36.00	-21.760	40.00	4.00	284	PK	Vertical	PASS
64.15	54.2	30.87	-23.330	40.00	9.13	61	PK	Vertical	PASS
110.42	55.1	32.29	-22.820	43.50	11.21	212	PK	Vertical	PASS
131.90	52.4	26.14	-26.290	43.50	17.36	359	PK	Vertical	PASS
259.76	50.0	27.93	-22.060	46.00	18.07	71	PK	Vertical	PASS
491.26	50.3	35.70	-14.580	46.00	10.30	82	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2474.69	46.3	52.17	5.900	-	-	141	PK	Vertical	NA
2475.10	41.0	46.90	5.910	-	-	141	AV	Vertical	NA
2496.30	48.6	54.44	5.840	74.00	19.56	153	PK	Vertical	PASS
2496.70	40.2	46.00	5.840	54.00	8.00	141	AV	Vertical	PASS
4944.48	41.4	36.59	-4.850	54.00	17.41	241	AV	Vertical	PASS
4996.34	46.6	42.76	-3.870	74.00	31.24	92	PK	Vertical	PASS
6557.24	45.0	47.39	2.370	74.00	26.61	26	PK	Vertical	PASS
6592.39	37.6	40.63	3.040	54.00	13.37	172	AV	Vertical	PASS



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

————— END OF REPORT —————

