HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)
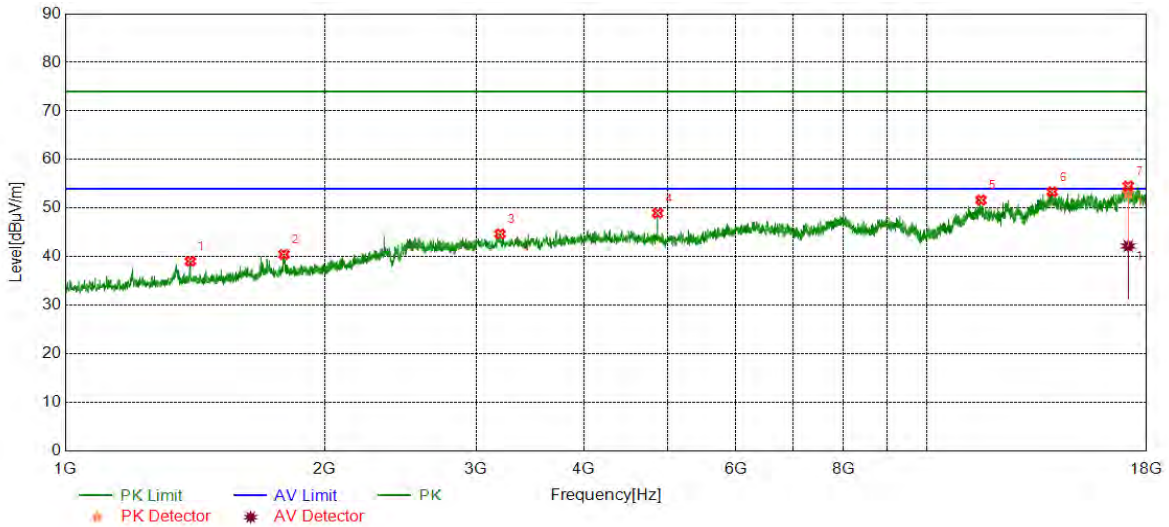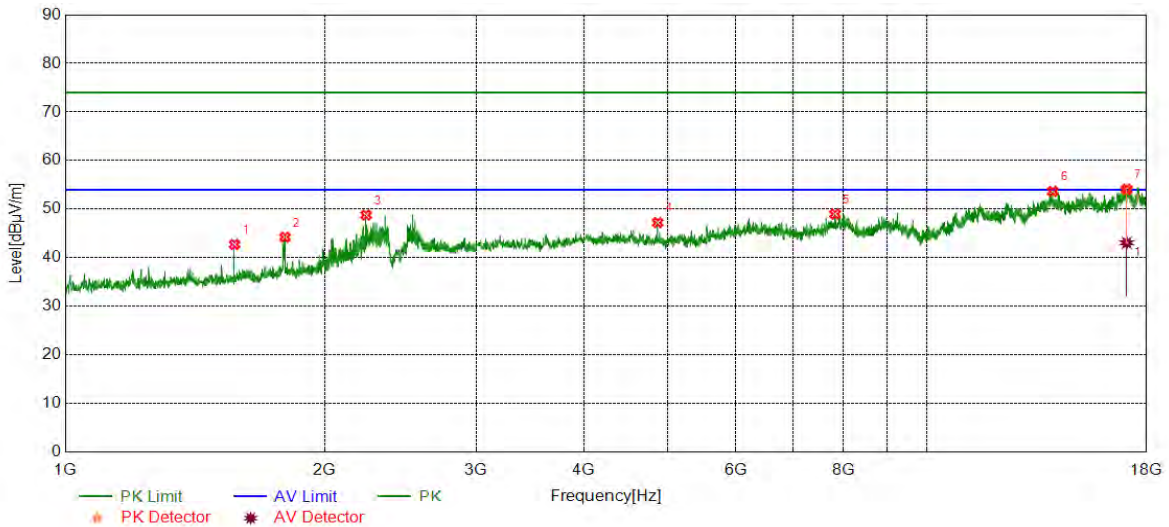

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1397.4658	42.52	-3.46	39.06	74.00	-34.94	peak
2	1794.2648	42.07	-1.58	40.49	74.00	-33.51	peak
3	3197.5329	39.61	5.09	44.70	74.00	-29.30	peak
4	4872.8121	42.61	6.36	48.97	74.00	-25.03	peak
5	11561.4269	36.40	15.26	51.66	74.00	-22.34	peak
6	13986.8311	35.57	17.80	53.37	74.00	-20.63	peak
7	17134.8558	34.39	18.64	53.03	74.00	-20.97	peak
		23.56	18.64	42.20	54.00	-11.80	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

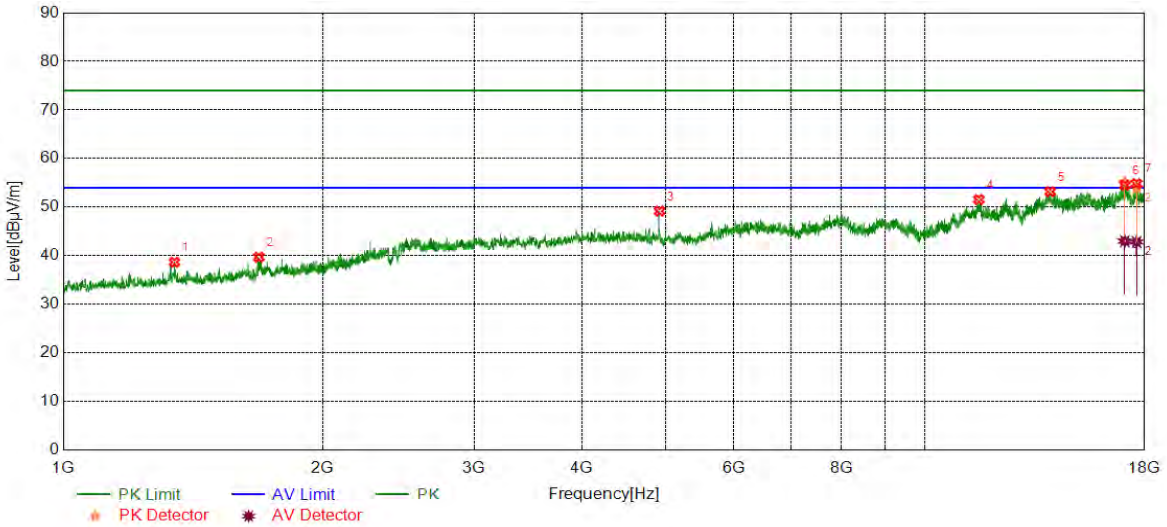## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1572.1907	45.60	-2.87	42.73	74.00	-31.27	peak
2	1799.5999	45.69	-1.48	44.21	74.00	-29.79	peak
3	2235.0784	47.82	0.96	48.78	74.00	-25.22	peak
4	4872.8121	40.87	6.36	47.23	74.00	-26.77	peak
5	7828.3047	37.86	11.11	48.97	74.00	-25.03	peak
6	14006.8345	35.72	17.94	53.66	74.00	-20.34	peak
7	17064.8441	34.79	19.23	54.02	74.00	-19.98	peak
		23.84	19.23	43.07	54.00	-10.93	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

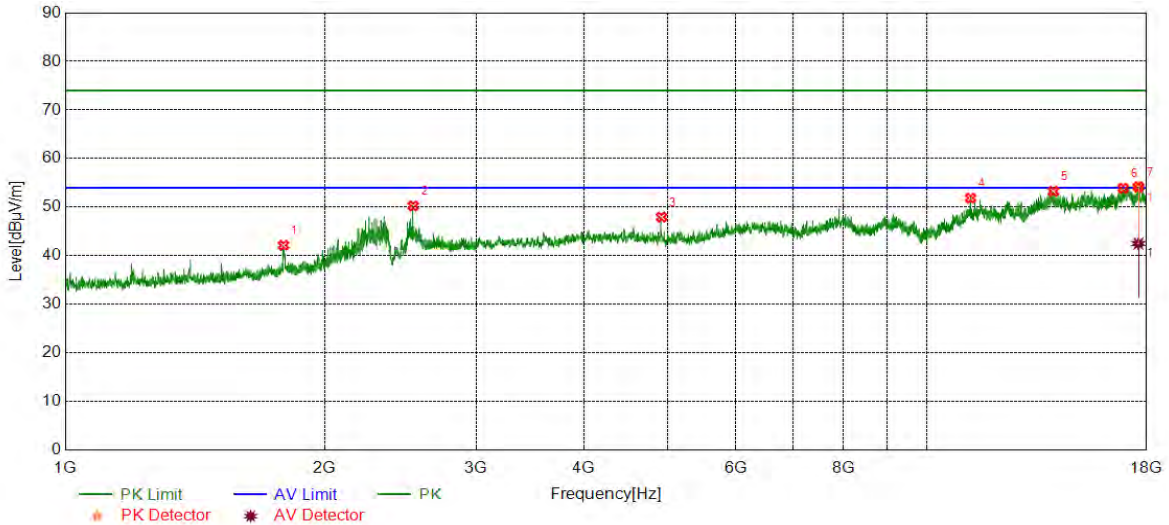## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1346.1154	42.47	-3.81	38.66	74.00	-35.34	peak
2	1686.8956	42.07	-2.35	39.72	74.00	-34.28	peak
3	4922.8205	42.89	6.30	49.19	74.00	-24.81	peak
4	11553.9257	36.26	15.32	51.58	74.00	-22.42	peak
5	13984.3307	35.43	17.77	53.20	74.00	-20.80	peak
6	17069.8450	36.07	19.06	55.13	74.00	-18.87	peak
		23.94	19.06	43.00	54.00	-11.00	average
7	17614.9358	34.92	19.02	53.94	74.00	-20.06	peak
		23.80	19.02	42.82	54.00	-11.18	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

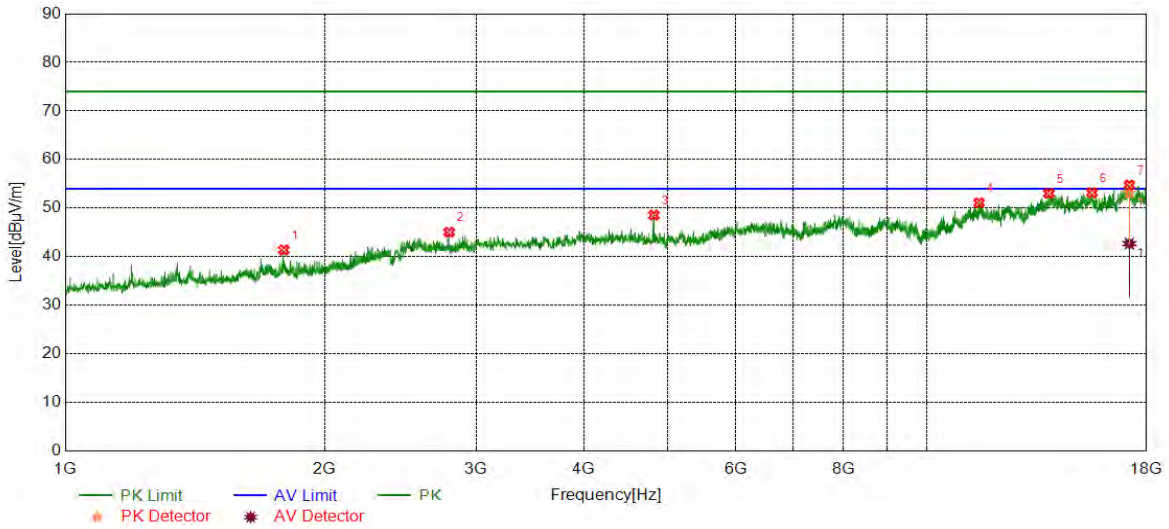## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1792.2641	43.75	-1.62	42.13	74.00	-31.87	peak
2	2534.5115	46.61	3.65	50.26	74.00	-23.74	peak
3	4922.8205	41.66	6.30	47.96	74.00	-26.04	peak
4	11243.8740	37.76	14.09	51.85	74.00	-22.15	peak
5	14029.3382	35.38	17.89	53.27	74.00	-20.73	peak
6	16907.3179	35.59	18.30	53.89	74.00	-20.11	peak
7	17612.4354	34.96	19.03	53.99	74.00	-20.01	peak
		23.47	19.03	42.50	54.00	-11.50	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.2.3. 802.11n HT20 MODE

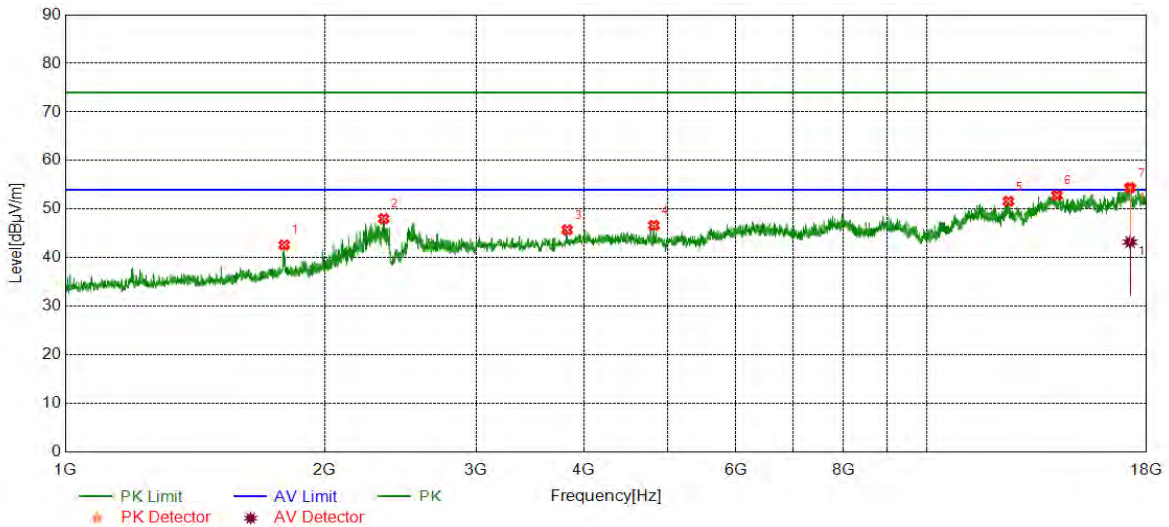**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)**

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1792.9310	42.99	-1.60	41.39	74.00	-32.61	peak
2	2790.5969	41.82	3.22	45.04	74.00	-28.96	peak
3	4822.8038	42.38	6.17	48.55	74.00	-25.45	peak
4	11503.9173	35.85	15.24	51.09	74.00	-22.91	peak
5	13864.3107	35.65	17.36	53.01	74.00	-20.99	peak
6	15557.0928	35.62	17.57	53.19	74.00	-20.81	peak
7	17187.3646	34.38	18.73	53.11	74.00	-20.89	peak
		23.98	18.73	42.71	54.00	-11.29	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

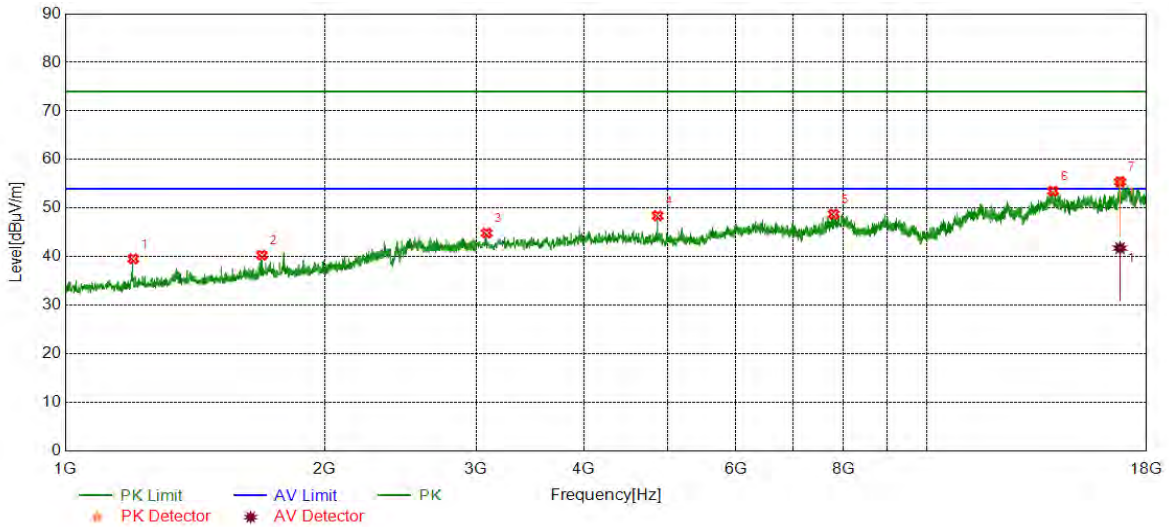## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1795.5985	44.18	-1.55	42.63	74.00	-31.37	peak
2	2342.4475	46.08	1.95	48.03	74.00	-25.97	peak
3	3825.1375	39.74	6.01	45.75	74.00	-28.25	peak
4	4822.8038	40.47	6.17	46.64	74.00	-27.36	peak
5	12441.5736	36.19	15.42	51.61	74.00	-22.39	peak
6	14159.3599	35.38	17.45	52.83	74.00	-21.17	peak
7	17222.3704	36.19	18.20	54.39	74.00	-19.61	peak
		25.01	18.20	43.21	54.00	-10.79	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other
   emissions deemed to comply with the limit.

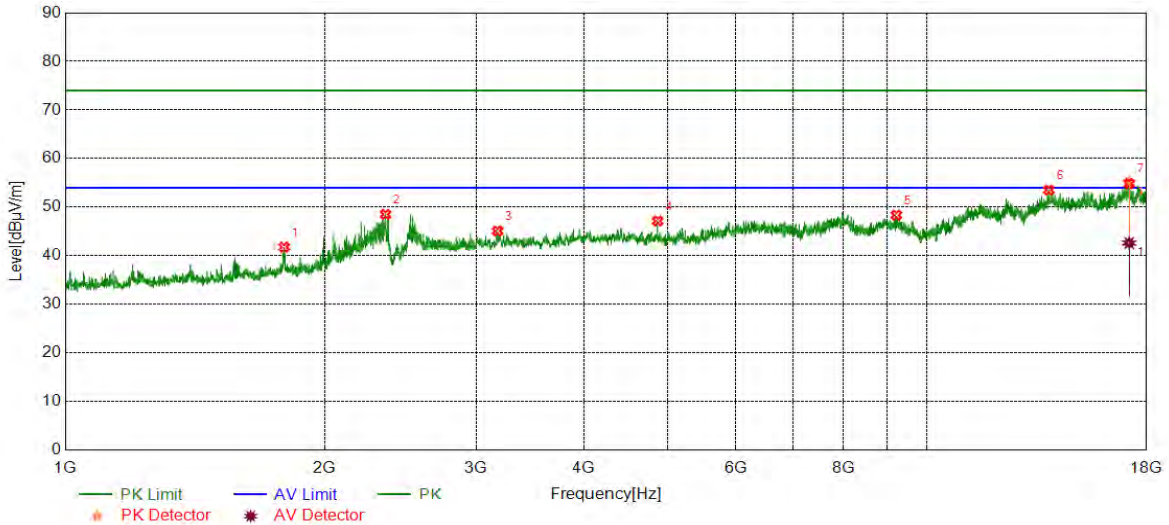## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.3998	43.78	-4.21	39.57	74.00	-34.43	peak
2	1691.5639	42.64	-2.30	40.34	74.00	-33.66	peak
3	3085.0142	39.96	4.90	44.86	74.00	-29.14	peak
4	4872.8121	42.07	6.36	48.43	74.00	-25.57	peak
5	7798.2997	37.86	10.91	48.77	74.00	-25.23	peak
6	14016.8361	35.59	17.92	53.51	74.00	-20.49	peak
7	16764.7941	37.57	17.68	55.25	74.00	-18.75	peak
		24.08	17.68	41.76	54.00	-12.24	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

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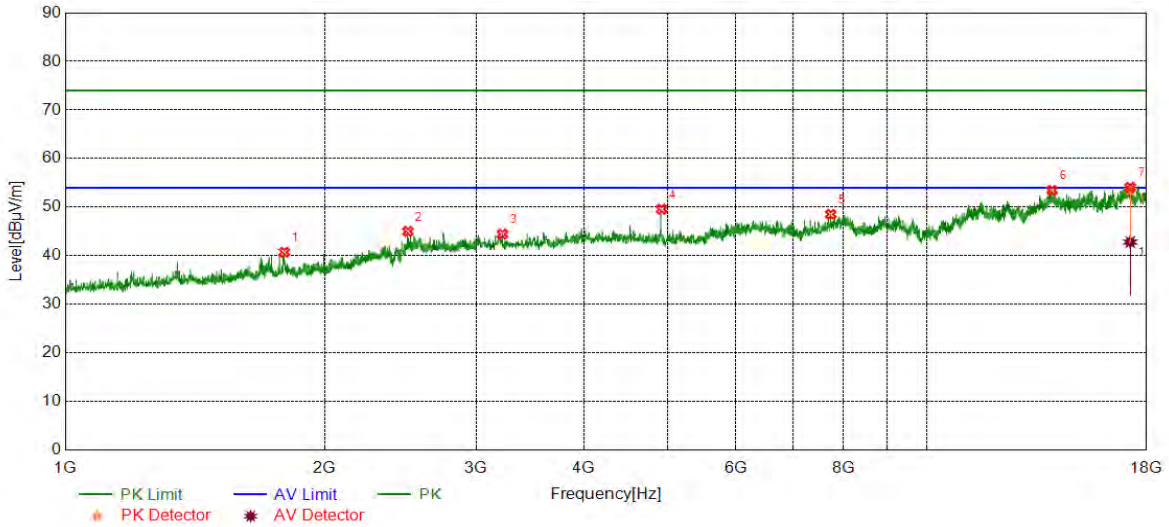## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1794.9316	43.33	-1.57	41.76	74.00	-32.24	peak
2	2354.4515	46.42	2.09	48.51	74.00	-25.49	peak
3	3175.0292	40.18	4.91	45.09	74.00	-28.91	peak
4	4872.8121	40.81	6.36	47.17	74.00	-26.83	peak
5	9221.0368	37.46	10.91	48.37	74.00	-25.63	peak
6	13859.3099	36.19	17.32	53.51	74.00	-20.49	peak
7	17177.3629	36.38	18.77	55.15	74.00	-18.85	peak
		23.84	18.77	42.61	54.00	-11.39	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

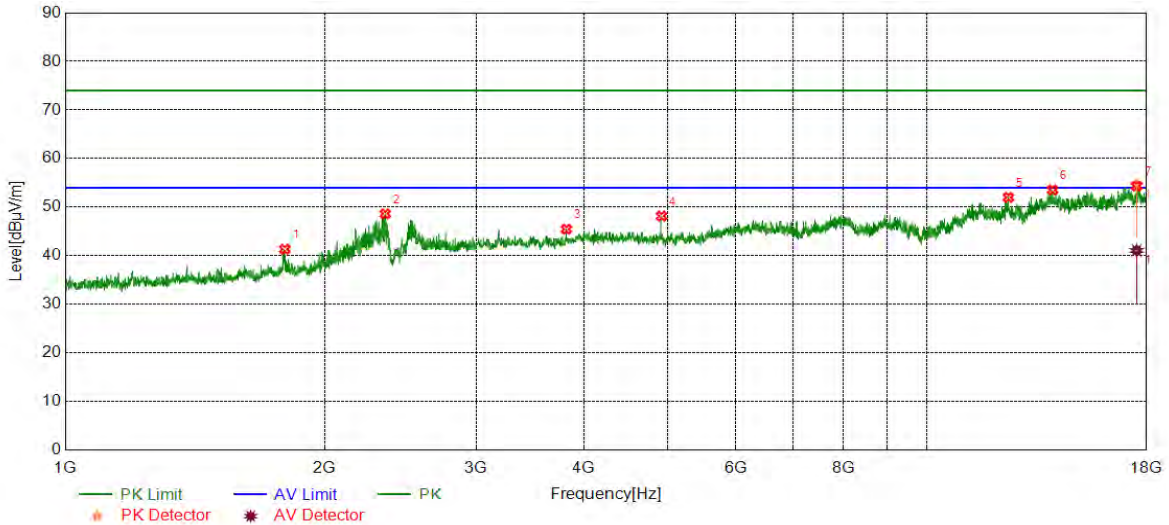## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1796.2654	42.26	-1.54	40.72	74.00	-33.28	peak
2	2499.1664	41.48	3.52	45.00	74.00	-29.00	peak
3	3217.5363	39.40	5.03	44.43	74.00	-29.57	peak
4	4922.8205	43.29	6.30	49.59	74.00	-24.41	peak
5	7738.2897	37.72	10.80	48.52	74.00	-25.48	peak
6	13979.3299	35.74	17.71	53.45	74.00	-20.55	peak
7	17227.3712	35.4	18.10	53.50	74.00	-20.50	peak
		24.70	18.10	42.80	54.00	-11.20	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
   2. Peak: Peak detector.
   3. The Band Reject filter loss factor already add into the correct factor.
   4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
   5. Only the worst case emission was recorded, if it complies with the limit, the other
      emissions deemed to comply with the limit.

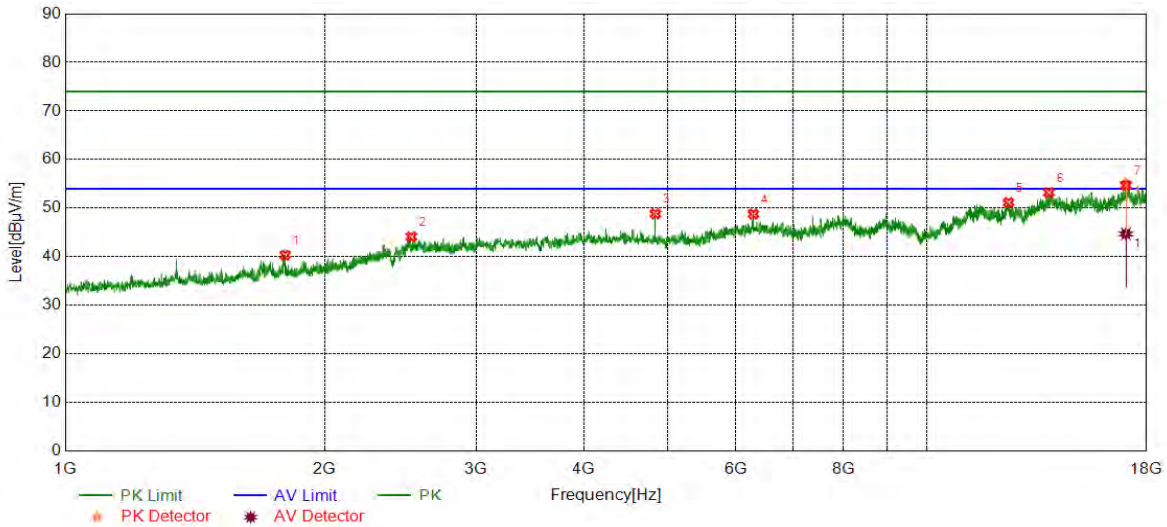## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1798.2661	42.83	-1.50	41.33	74.00	-32.67	peak
2	2352.4508	46.53	2.07	48.60	74.00	-25.40	peak
3	3817.6363	39.46	6.00	45.46	74.00	-28.54	peak
4	4922.8205	41.86	6.30	48.16	74.00	-25.84	peak
5	12441.5736	36.59	15.42	52.01	74.00	-21.99	peak
6	13999.3332	35.59	17.95	53.54	74.00	-20.46	peak
7	17524.9208	36.67	17.93	54.60	74.00	-19.40	peak
		23.15	17.93	41.08	54.00	-12.92	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

802.11n HT40 MODE

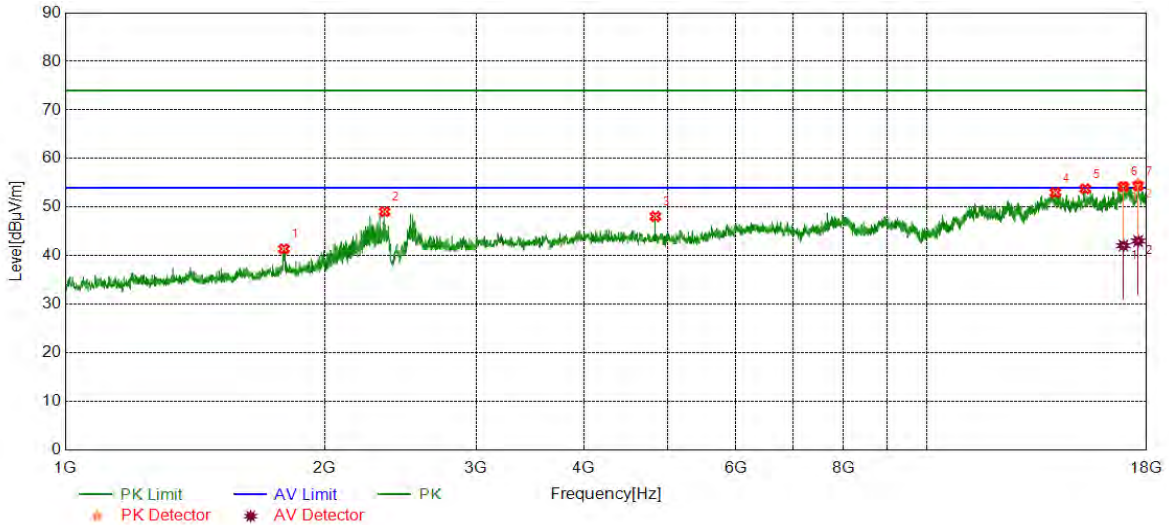### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1800.2668	41.83	-1.47	40.36	74.00	-33.64	peak
2	2522.5075	40.50	3.60	44.10	74.00	-29.90	peak
3	4842.8071	42.50	6.33	48.83	74.00	-25.17	peak
4	6293.0488	39.00	9.79	48.79	74.00	-25.21	peak
5	12446.5744	35.74	15.42	51.16	74.00	-22.84	peak
6	13864.3107	35.86	17.36	53.22	74.00	-20.78	peak
7	17029.8383	35.67	19.41	55.08	74.00	-18.92	peak
		25.30	19.41	44.71	54.00	-9.29	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

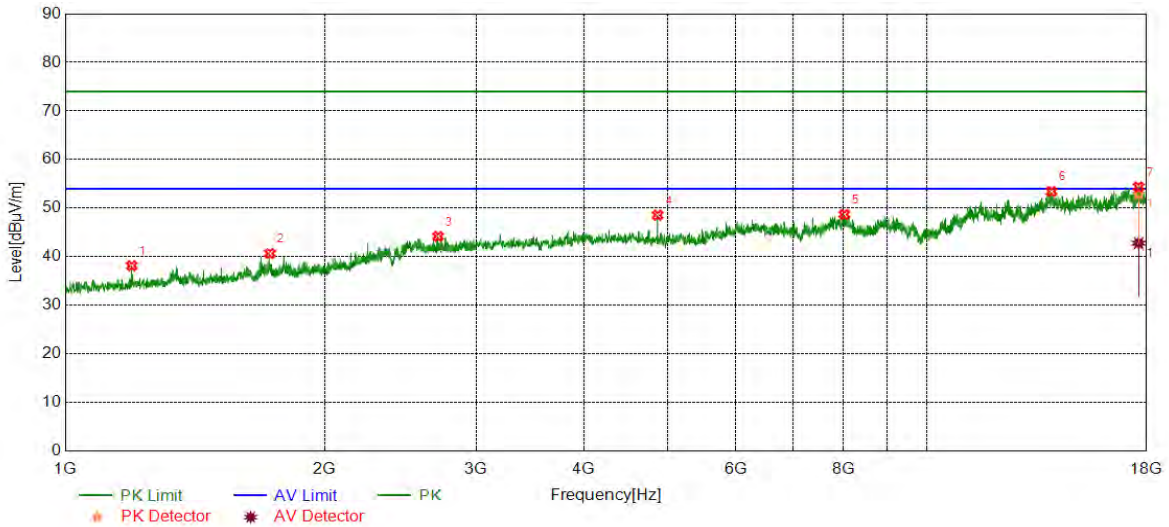## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1794.2648	42.99	-1.58	41.41	74.00	-32.59	peak
2	2348.4495	47.03	2.02	49.05	74.00	-24.95	peak
3	4842.8071	41.75	6.33	48.08	74.00	-25.92	peak
4	14104.3507	35.07	17.92	52.99	74.00	-21.01	peak
5	15274.5458	36.31	17.46	53.77	74.00	-20.23	peak
6	16917.3196	35.58	18.56	54.14	74.00	-19.86	peak
		23.51	18.56	42.07	54.00	-11.93	average
7	17594.9325	35.84	18.92	54.76	74.00	-19.24	peak
		24.10	18.92	43.02	54.00	-10.98	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

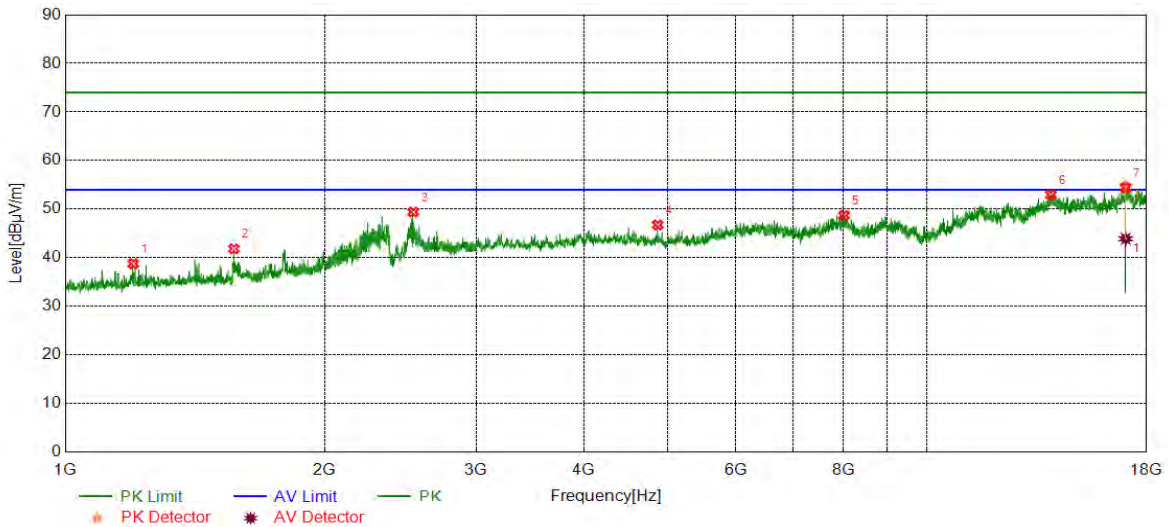## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1194.7316	42.36	-4.23	38.13	74.00	-35.87	peak
2	1728.2427	42.99	-2.33	40.66	74.00	-33.34	peak
3	2709.2364	40.73	3.45	44.18	74.00	-29.82	peak
4	4872.8121	42.18	6.36	48.54	74.00	-25.46	peak
5	8023.3372	36.89	11.81	48.70	74.00	-25.30	peak
6	13959.3266	35.95	17.48	53.43	74.00	-20.57	peak
7	17619.9367	33.86	19.01	52.87	74.00	-21.13	peak
		23.77	19.01	42.78	54.00	-11.22	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

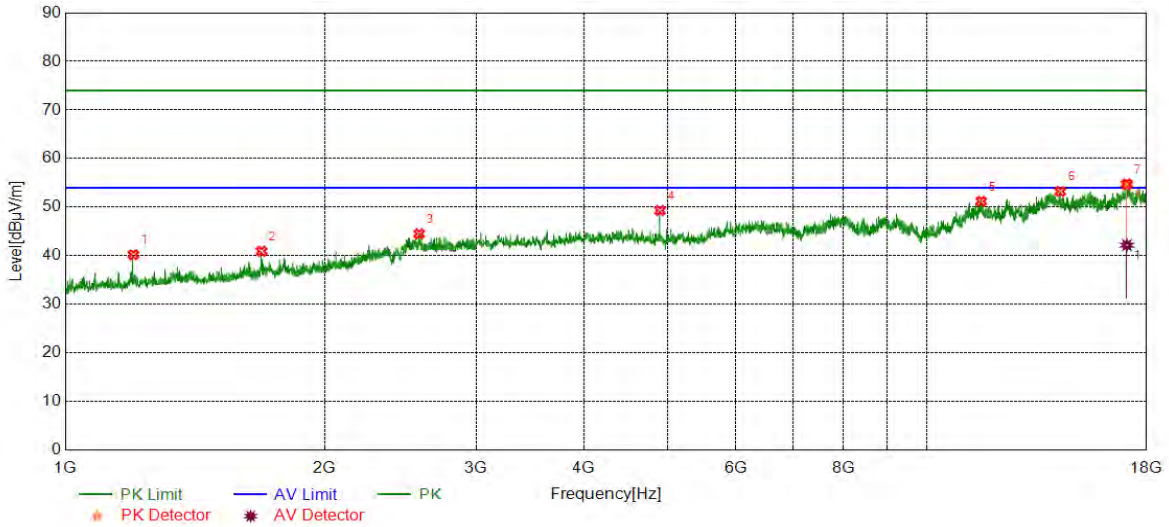## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1199.3998	42.98	-4.21	38.77	74.00	-35.23	peak
2	1569.5232	44.75	-2.92	41.83	74.00	-32.17	peak
3	2535.1784	45.74	3.65	49.39	74.00	-24.61	peak
4	4872.8121	40.39	6.36	46.75	74.00	-27.25	peak
5	8015.8360	36.81	11.90	48.71	74.00	-25.29	peak
6	13936.8228	35.50	17.45	52.95	74.00	-21.05	peak
7	17022.3371	35.55	19.29	54.84	74.00	-19.16	peak
		24.61	19.29	43.90	54.00	-10.10	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

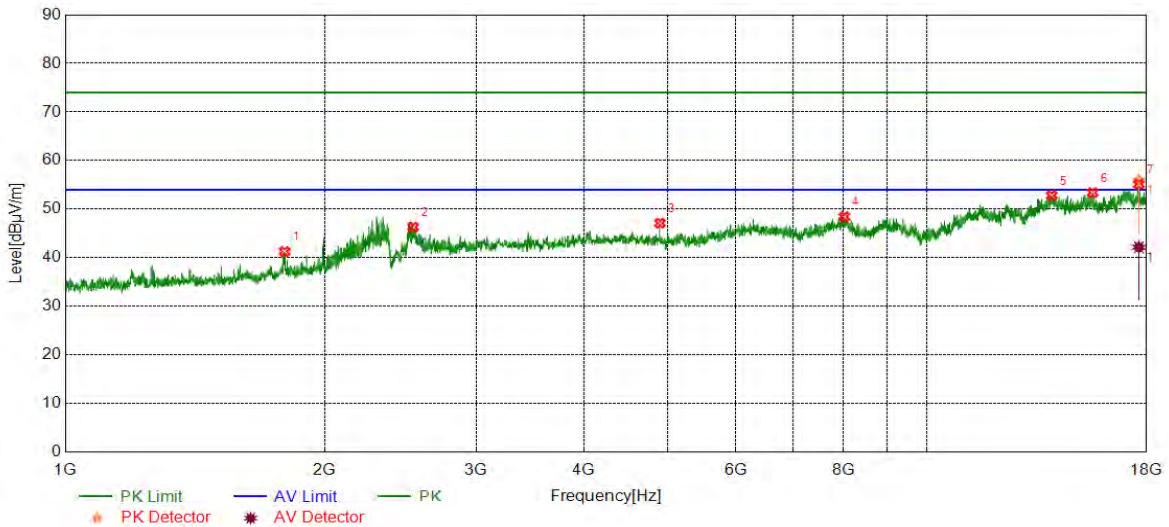## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.0667	44.42	-4.21	40.21	74.00	-33.79	peak
2	1690.2301	43.25	-2.32	40.93	74.00	-33.07	peak
3	2575.8586	41.01	3.50	44.51	74.00	-29.49	peak
4	4902.8171	42.98	6.32	49.30	74.00	-24.70	peak
5	11568.9282	36.00	15.21	51.21	74.00	-22.79	peak
6	14291.8820	36.26	16.97	53.23	74.00	-20.77	peak
7	17072.3454	35.55	18.98	54.53	74.00	-19.47	peak
		23.19	18.98	42.17	54.00	-11.83	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other
emissions deemed to comply with the limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

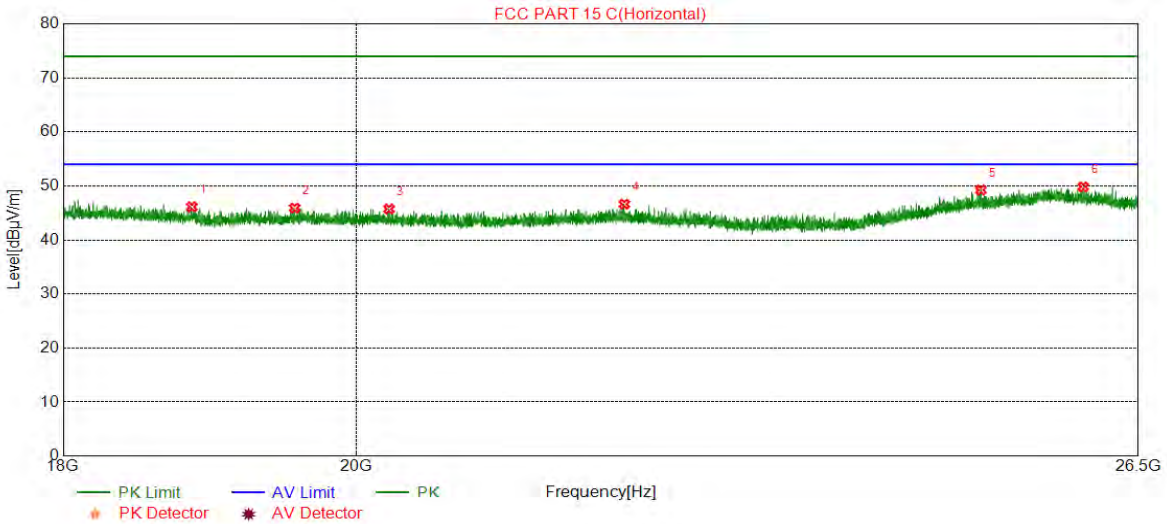| No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	1797.5992	42.78	-1.52	41.26	74.00	-32.74	peak
2	2534.5115	42.65	3.65	46.30	74.00	-27.70	peak
3	4902.8171	40.79	6.32	47.11	74.00	-26.89	peak
4	8023.3372	36.61	11.81	48.42	74.00	-25.58	peak
5	13966.8278	35.25	17.56	52.81	74.00	-21.19	peak
6	15584.5974	36.35	17.03	53.38	74.00	-20.62	peak
7	17629.9383	36.98	18.99	55.97	74.00	-18.03	peak
		23.16	18.99	42.15	54.00	-11.85	average

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
2. Peak: Peak detector.
3. The Band Reject filter loss factor already add into the correct factor.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

9.3. SPURIOUS EMISSIONS (18~26GHz)

9.3.1. 802.11b MODE

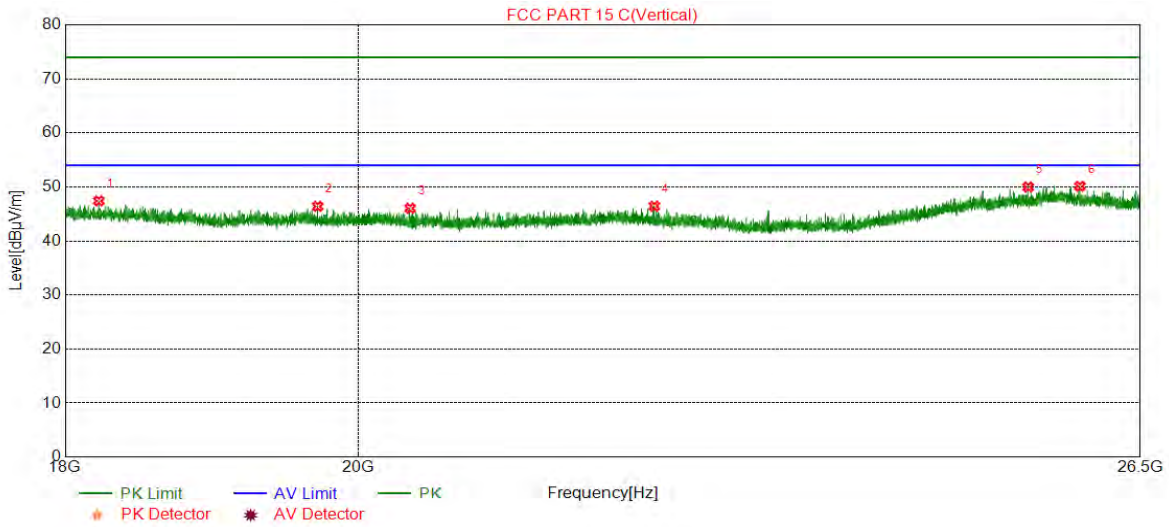**SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)**

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18852.6353	45.51	0.62	46.13	74.00	-27.87	peak
2	19563.3063	44.71	1.19	45.90	74.00	-28.10	peak
3	20239.1239	44.21	1.52	45.73	74.00	-28.27	peak
4	22027.7028	44.65	1.97	46.62	74.00	-27.38	peak
5	25042.9543	44.43	4.80	49.23	74.00	-24.77	peak
6	25982.2982	43.47	6.35	49.82	74.00	-24.18	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

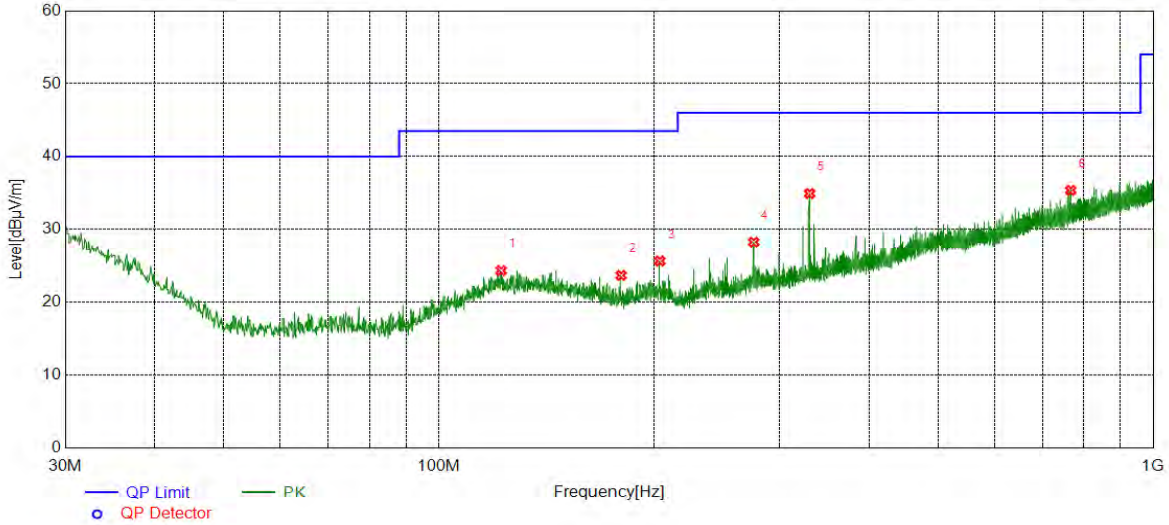| No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	18219.3219	46.28	1.13	47.41	74.00	-26.59	peak
2	19712.0712	45.05	1.35	46.40	74.00	-27.60	peak
3	20378.5379	44.52	1.52	46.04	74.00	-27.96	peak
4	22250.4250	44.57	1.86	46.43	74.00	-27.57	peak
5	25454.3954	44.57	5.42	49.99	74.00	-24.01	peak
6	25932.9933	43.83	6.28	50.11	74.00	-23.89	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Proper operation of the transmitter prior to adding the filter to the measurement chain.

Note: All constructions and test modes have been tested, only the worst data record in the report

9.4. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

9.4.1. 802.11b MODE

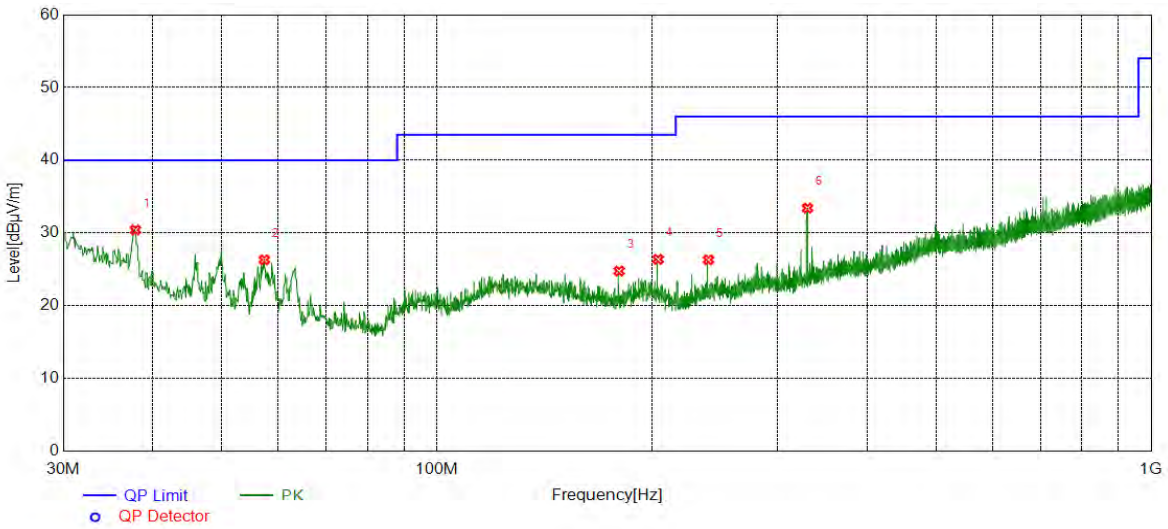**SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)**

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	122.2562	4.06	20.29	24.35	43.50	-19.15	QP
2	179.9770	5.87	17.82	23.69	43.50	-19.81	QP
3	203.9384	6.85	18.82	25.67	43.50	-17.83	QP
4	276.0166	8.07	20.18	28.25	46.00	-17.75	QP
5	330.4390	13.74	21.19	34.93	46.00	-11.07	QP
6	766.5947	6.00	29.36	35.36	46.00	-10.64	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	37.8578	8.28	22.14	30.42	40.00	-9.58	QP
2	57.3567	12.17	14.14	26.31	40.00	-13.69	QP
3	179.9770	6.95	17.82	24.77	43.50	-18.73	QP
4	204.0354	7.57	18.81	26.38	43.50	-17.12	QP
5	240.0260	7.53	18.78	26.31	46.00	-19.69	QP
6	330.3420	12.23	21.19	33.42	46.00	-12.58	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
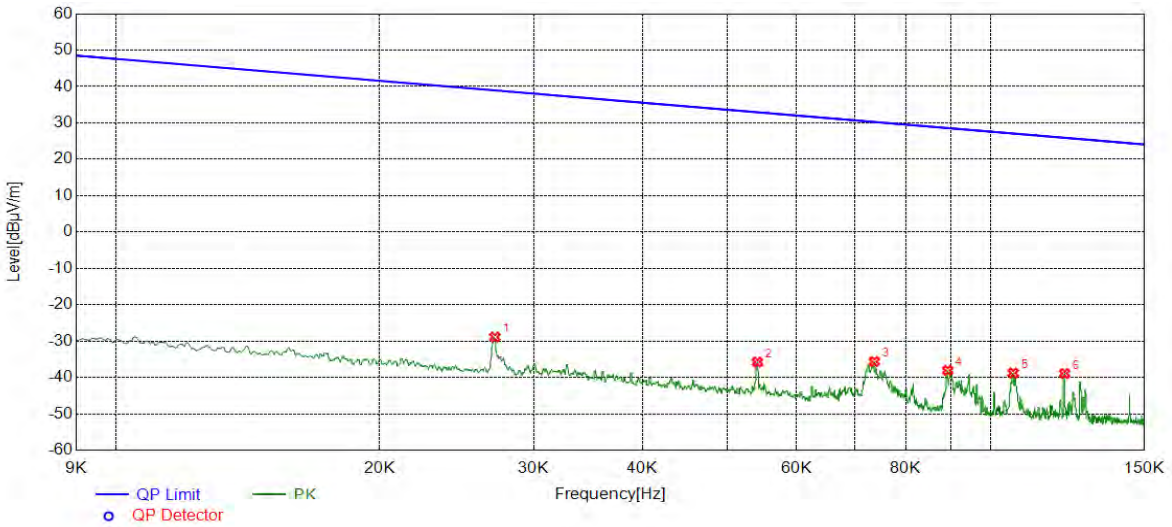3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Note: All constructions and test modes have been tested, only the worst data record in the report.

9.5. SPURIOUS EMISSIONS BELOW 30M

9.5.1. 802.11b MODE

SPURIOUS EMISSIONS (MID CHANNEL, WORST-CASE CONFIGURATION, Face-on)
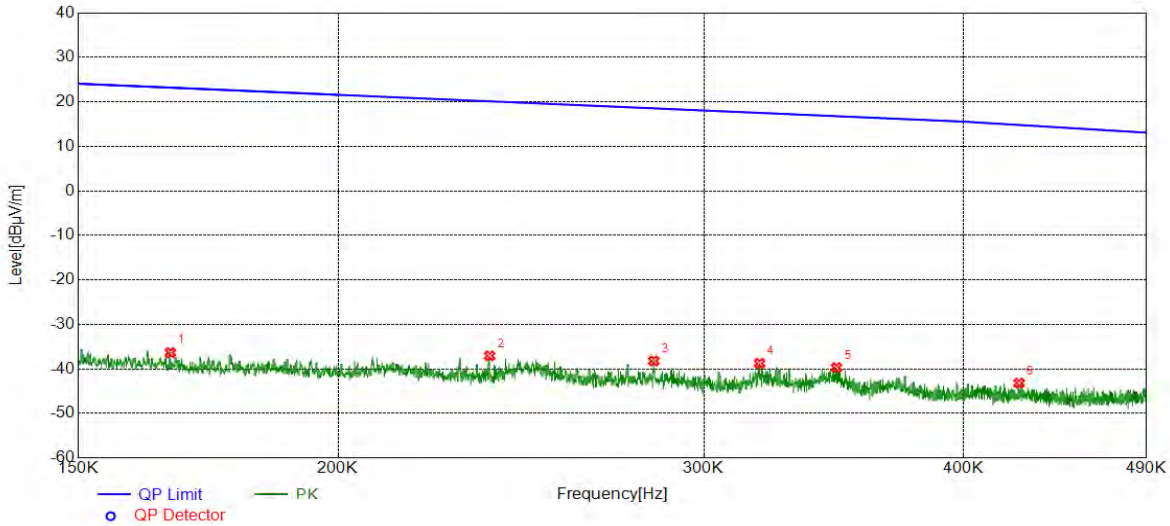
0.09~ 150kHz

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0271	32.13	-61.01	-28.88	38.96	-67.84	peak
2	0.0541	25.45	-61.22	-35.77	32.94	-68.71	peak
3	0.0736	25.92	-61.53	-35.61	30.27	-65.88	peak
4	0.0893	23.09	-61.15	-38.06	28.59	-66.65	peak
5	0.1061	22.17	-60.93	-38.76	27.09	-65.85	peak
6	0.1215	22.19	-61.11	-38.92	25.91	-64.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report
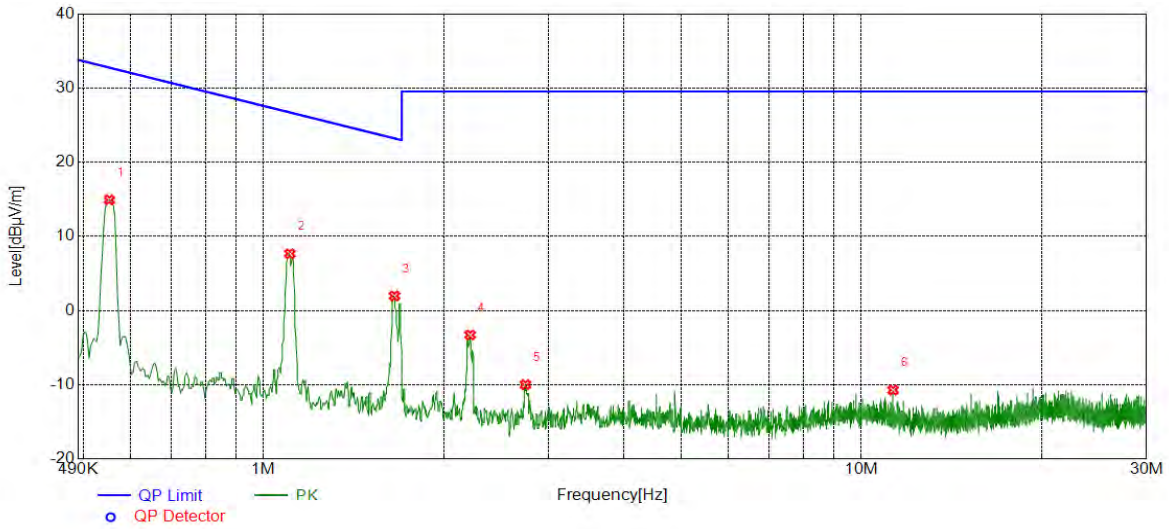
150kHz ~ 490kHz

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1661	25.02	-61.37	-36.35	23.20	-59.55	peak
2	0.2366	23.94	-61.01	-37.07	20.12	-57.19	peak
3	0.2838	22.71	-60.91	-38.20	18.54	-56.74	peak
4	0.3191	22.12	-60.88	-38.76	17.52	-56.28	peak
5	0.3475	21.15	-60.86	-39.71	16.78	-56.49	peak
6	0.4254	17.60	-60.79	-43.19	14.81	-58.00	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report

490kHz ~ 30MHz

No.	Frequency	Reading Level	Correct Factor	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5520	35.67	-20.74	14.93	32.76	-17.83	peak
2	1.1068	28.13	-20.47	7.66	26.73	-19.07	peak
3	1.6558	22.36	-20.39	1.97	23.22	-21.25	peak
4	2.2165	17.10	-20.39	-3.29	29.54	-32.83	peak
5	2.7418	10.54	-20.52	-9.98	29.54	-39.52	peak
6	11.3006	8.37	-19.09	-10.72	29.54	-40.26	peak

Note: 1. Measurement = Reading Level + Correct Factor.
   2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
   3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report

Note: All constructions and test modes have been tested, only the worst data record in the report.
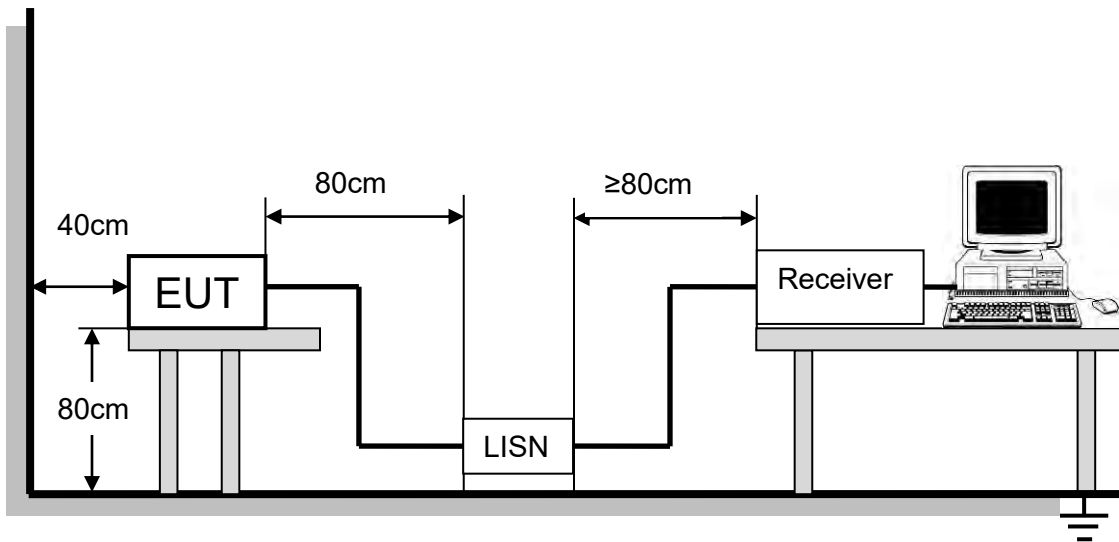
10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.
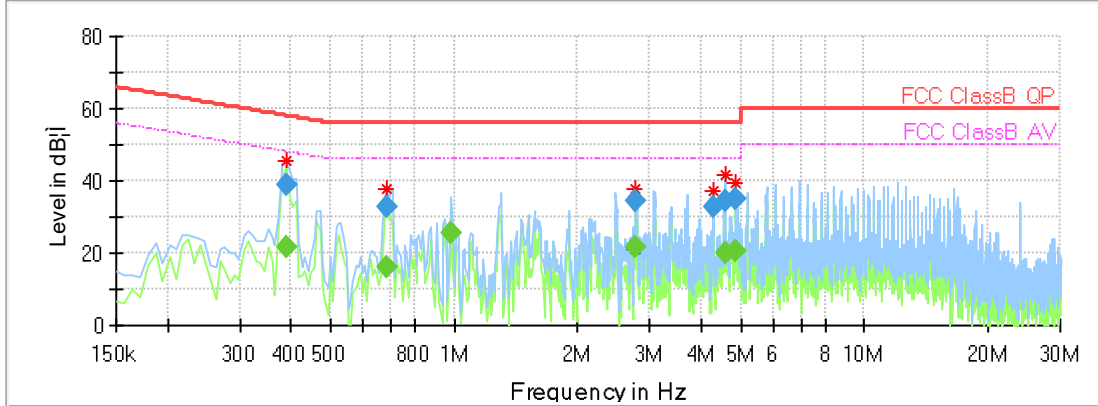
TEST ENVIRONMENT

Temperature	20°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	DC 5.0V

TEST RESULTS

10.1. 802.11b MODE

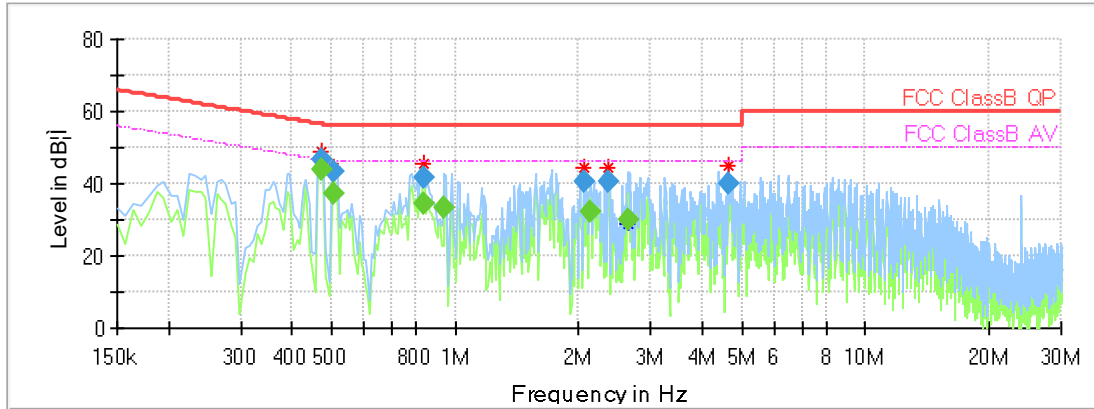**LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)**

Final_Result

Frequency (MHz)	QuasiPeak (dB¦İV)	Average (dB¦İV)	Limit (dB¦İV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.388800	---	21.47	48.09	26.62	1000.0	9.000	N	OFF	9.6
0.388800	38.78	---	58.09	19.31	1000.0	9.000	N	OFF	9.6
0.687300	---	16.37	46.00	29.63	1000.0	9.000	N	OFF	9.6
0.687300	32.99	---	56.00	23.01	1000.0	9.000	N	OFF	9.6
0.985800	---	25.82	46.00	20.18	1000.0	9.000	N	OFF	9.6
2.776800	34.64	---	56.00	21.36	1000.0	9.000	N	OFF	9.7
2.776800	---	21.44	46.00	24.56	1000.0	9.000	N	OFF	9.7
4.291688	32.71	---	56.00	23.29	1000.0	9.000	N	OFF	9.7
4.567800	34.33	---	56.00	21.67	1000.0	9.000	N	OFF	9.7
4.567800	---	20.08	46.00	25.92	1000.0	9.000	N	OFF	9.7
4.851375	34.78	---	56.00	21.22	1000.0	9.000	N	OFF	9.7
4.866300	---	20.50	46.00	25.50	1000.0	9.000	N	OFF	9.7

LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)

Final_Result

Frequency (MHz)	QuasiPeak (dB¦İV)	Average (dB¦İV)	Limit (dB¦İV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.470888	---	44.01	46.50	2.49	1000.0	9.000	L1	OFF	9.6
0.470888	46.82	---	56.50	9.67	1000.0	9.000	L1	OFF	9.6
0.508200	---	37.45	46.00	8.55	1000.0	9.000	L1	OFF	9.6
0.508200	43.45	---	56.00	12.56	1000.0	9.000	L1	OFF	9.6
0.836550	41.69	---	56.00	14.31	1000.0	9.000	L1	OFF	9.6
0.836550	---	34.69	46.00	11.31	1000.0	9.000	L1	OFF	9.6
0.941025	---	33.10	46.00	12.90	1000.0	9.000	L1	OFF	9.6
2.060400	40.44	---	56.00	15.56	1000.0	9.000	L1	OFF	9.7
2.142488	---	32.39	46.00	13.61	1000.0	9.000	L1	OFF	9.7
2.351438	40.36	---	56.00	15.64	1000.0	9.000	L1	OFF	9.7
2.649938	---	29.95	46.00	16.05	1000.0	9.000	L1	OFF	9.7
4.642425	39.96	---	56.00	16.04	1000.0	9.000	L1	OFF	9.7

Note: All the test modes have been tested, only the worst data record in the report.

11. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies

END OF REPORT