

6.6.3.SPURIOUS EMISSIONS

Test Result Table:

1) For 9KHz-30MHz (worst case)

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B SISO	Antenna 1	LCH	<Limit	PASS

Remark: Pre-testing all test modes, both antennas and even test channels, but only the data of worse case is included in this test report.

2) For 30MHz-1GHz (worst case)

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B SISO	Antenna 1	LCH	<Limit	PASS

Remark: Pre-testing all test modes, both antennas and even test channels, but only the data of worse case is included in this test report.

3) For 1GHz-18GHz

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11G SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N20MIMO	Antenna 1+2	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS
11N40MIMO	Antenna 1+2	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS

Remark:

- 1) For the 11N20 and 11N40 modes, pre-testing for both SISO mode and MIMO mode, but only the data of worse case is included in this test report.
- 2) For the 11B and 11G modes, pre-testing both antenna1 and antenna2, but only the worse is included in this test report.

4) For 18GHz-26.5GHz

Test Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11G SISO	Antenna 1	LCH	<Limit	PASS
		MCH	<Limit	PASS
		HCH	<Limit	PASS

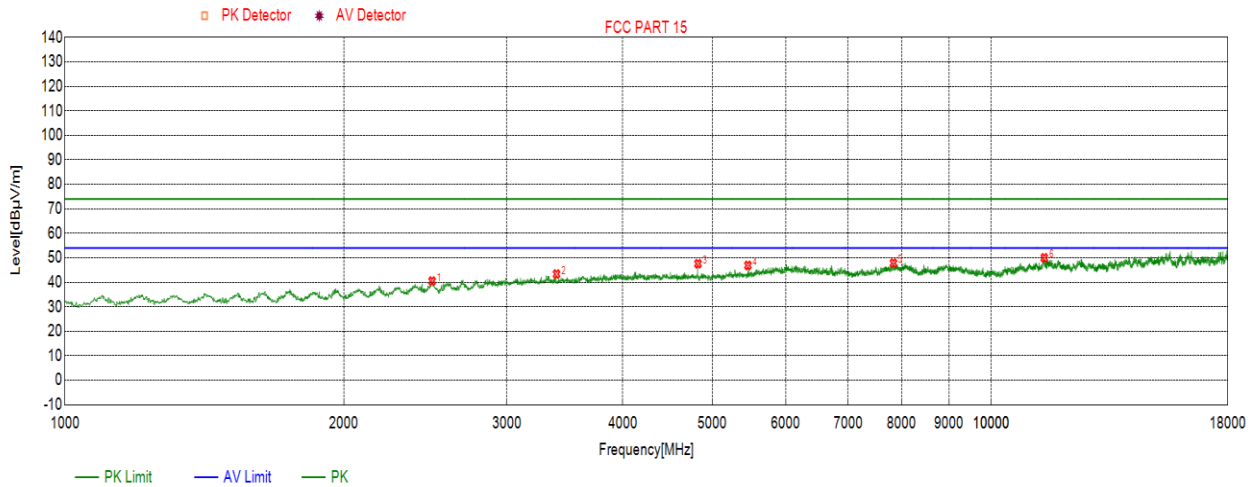
Remark: Pre-testing all test modes and both antennas, but only the data of worse case is included in this test report.

Part I: 1GHz~18GHz

HARMONICS AND SPURIOUS EMISSIONS

Antenna1:

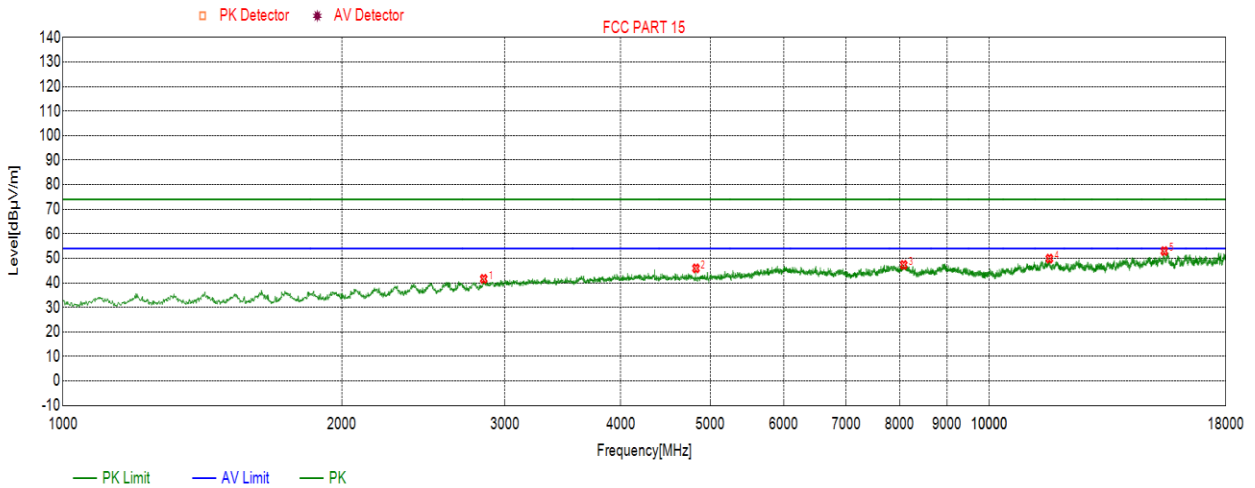
Test Mode	Channel	Polarization	Verdict
11B SISO	LCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2491.0491	40.50	74.00	-33.50	54.00	-13.50	peak
2	3393.8394	43.37	74.00	-30.63	54.00	-10.63	peak
3	4823.6824	47.59	74.00	-26.41	54.00	-6.41	peak
4	5461.2461	46.90	74.00	-27.10	54.00	-7.10	peak
5	7841.4841	47.84	74.00	-26.16	54.00	-6.16	peak
6	11408.4408	49.99	74.00	-24.01	54.00	-4.01	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

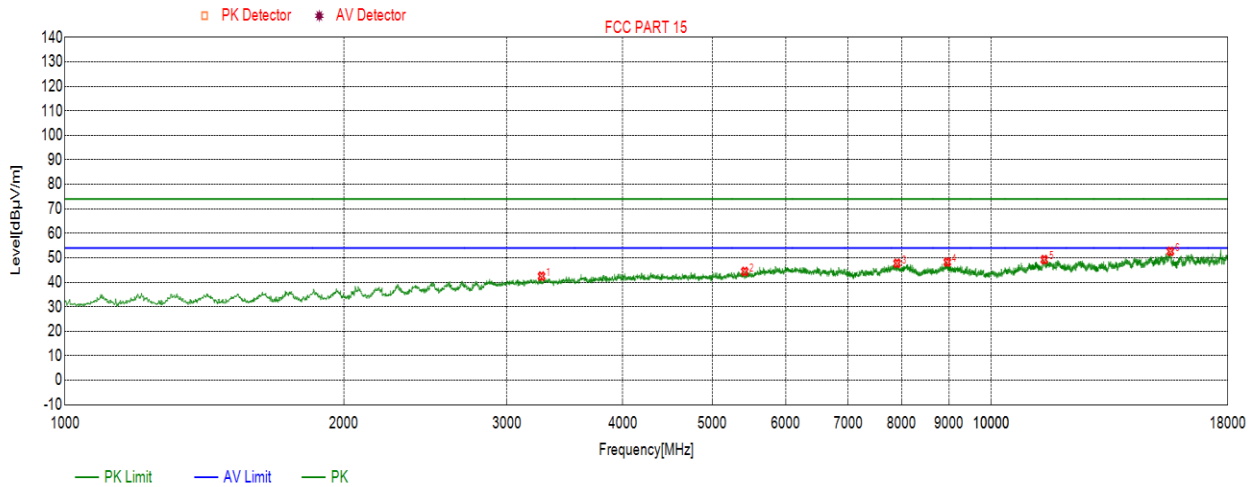
Test Mode	Channel	Polarization	Verdict
11B SISO	LCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2846.3846	41.62	74.00	-32.38	54.00	-12.38	peak
2	4823.6824	45.92	74.00	-28.08	54.00	-8.08	peak
3	8084.6085	47.32	74.00	-26.68	54.00	-6.68	peak
4	11612.4612	49.90	74.00	-24.10	54.00	-4.10	peak
5	15449.7450	52.96	74.00	-21.04	54.00	-1.04	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

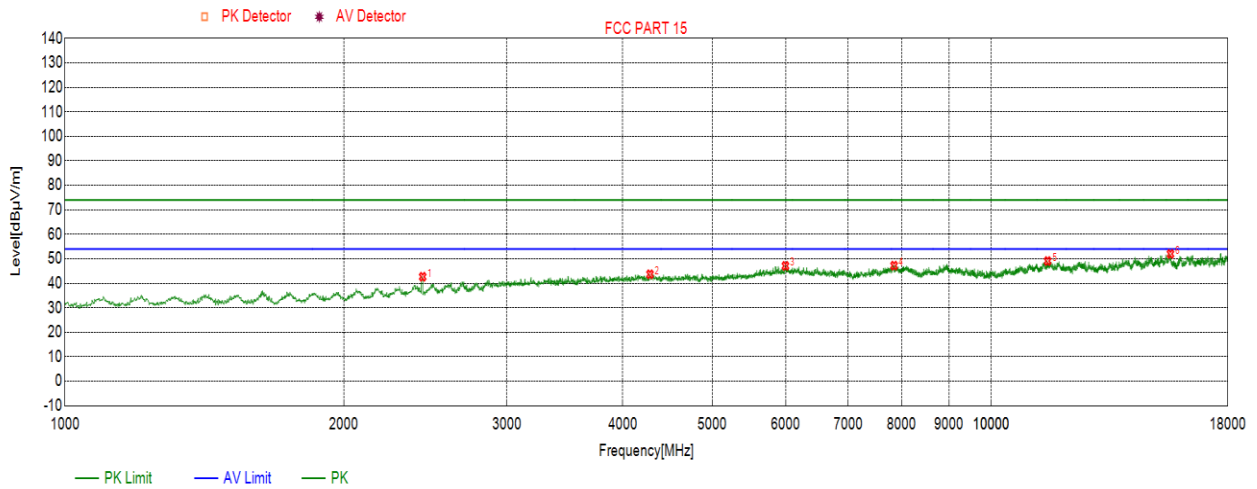
Test Mode	Channel	Polarization	Verdict
11B SISO	MCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3269.7270	42.48	74.00	-31.52	54.00	-11.52	peak
2	5418.7419	44.40	74.00	-29.60	54.00	-9.60	peak
3	7912.8913	47.75	74.00	-26.25	54.00	-6.25	peak
4	8965.2965	48.24	74.00	-25.76	54.00	-5.76	peak
5	11406.7407	49.24	74.00	-24.76	54.00	-4.76	peak
6	15609.5610	52.61	74.00	-21.39	54.00	-1.39	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

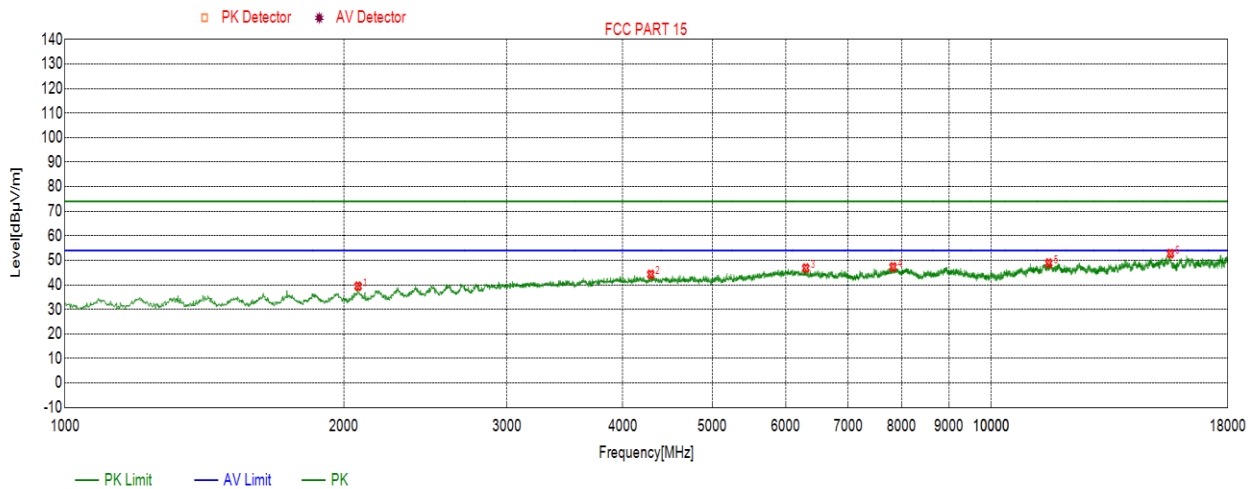
Test Mode	Channel	Polarization	Verdict
11B SISO	MCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2433.2433	42.68	74.00	-31.32	54.00	-11.32	peak
2	4281.3281	43.69	74.00	-30.31	54.00	-10.31	peak
3	5995.0995	47.11	74.00	-26.89	54.00	-6.89	peak
4	7853.3853	47.21	74.00	-26.79	54.00	-6.79	peak
5	11503.6504	49.10	74.00	-24.90	54.00	-4.90	peak
6	15611.2611	52.00	74.00	-22.00	54.00	-2.00	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

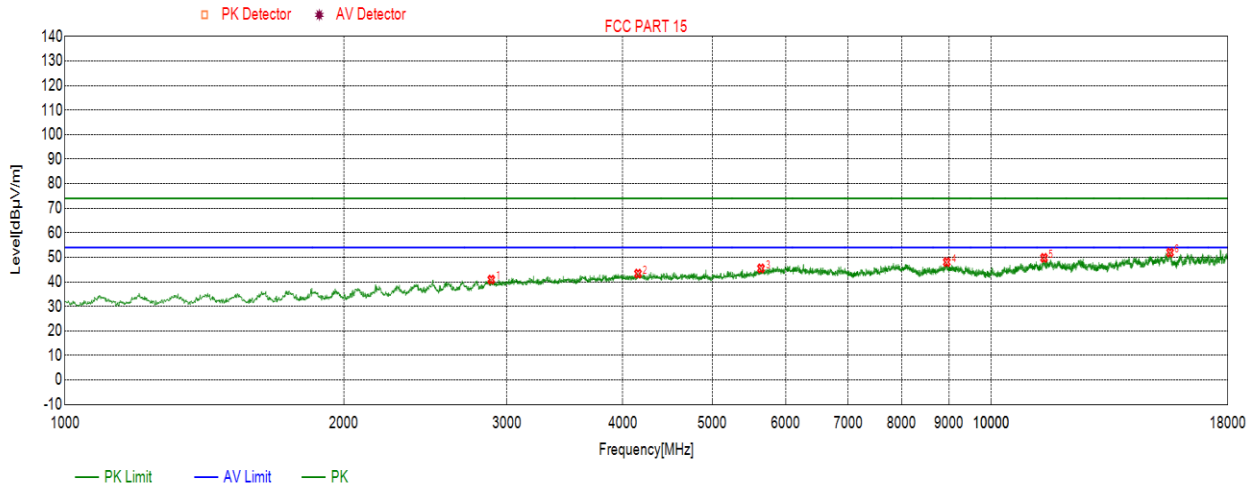
Test Mode	Channel	Polarization	Verdict
11B SISO	HCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2072.8073	39.45	74.00	-34.55	54.00	-14.55	peak
2	4289.8290	44.25	74.00	-29.75	54.00	-9.75	peak
3	6306.2306	46.82	74.00	-27.18	54.00	-7.18	peak
4	7832.9833	47.29	74.00	-26.71	54.00	-6.71	peak
5	11535.9536	48.84	74.00	-25.16	54.00	-5.16	peak
6	15612.9613	52.72	74.00	-21.28	54.00	-1.28	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

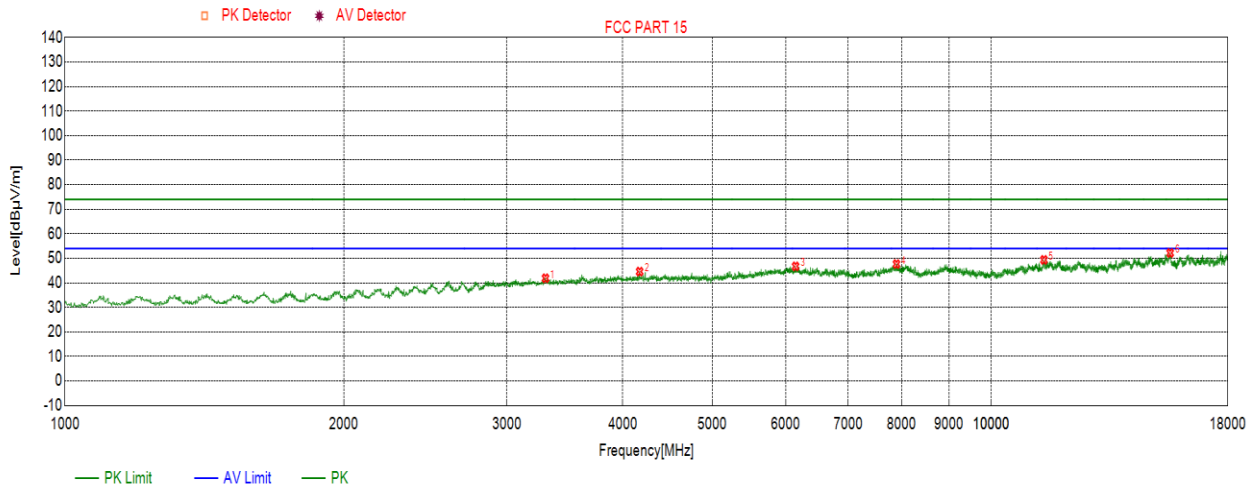
Test Mode	Channel	Polarization	Verdict
11B SISO	HCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2885.4885	40.93	74.00	-33.07	54.00	-13.07	peak
2	4155.5156	43.36	74.00	-30.64	54.00	-10.64	peak
3	5641.4641	45.49	74.00	-28.51	54.00	-8.51	peak
4	8953.3953	48.05	74.00	-25.95	54.00	-5.95	peak
5	11399.9400	49.78	74.00	-24.22	54.00	-4.22	peak
6	15594.2594	51.97	74.00	-22.03	54.00	-2.03	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

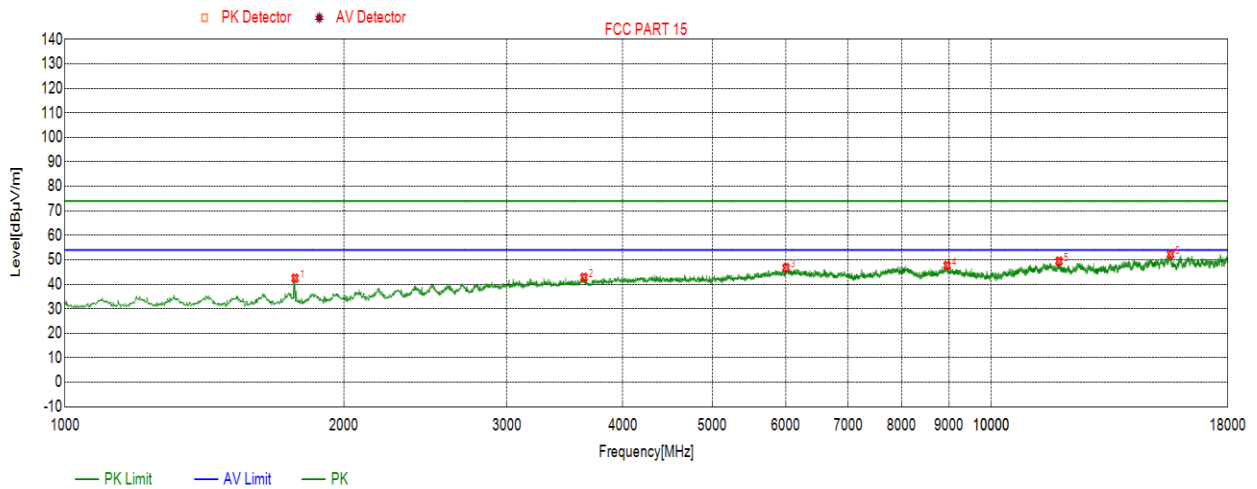
Test Mode	Channel	Polarization	Verdict
11G SISO	LCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3302.0302	41.87	74.00	-32.13	54.00	-12.13	peak
2	4172.5173	44.58	74.00	-29.42	54.00	-9.42	peak
3	6148.1148	46.71	74.00	-27.29	54.00	-7.29	peak
4	7900.9901	47.67	74.00	-26.33	54.00	-6.33	peak
5	11398.2398	49.37	74.00	-24.63	54.00	-4.63	peak
6	15599.3599	52.19	74.00	-21.81	54.00	-1.81	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

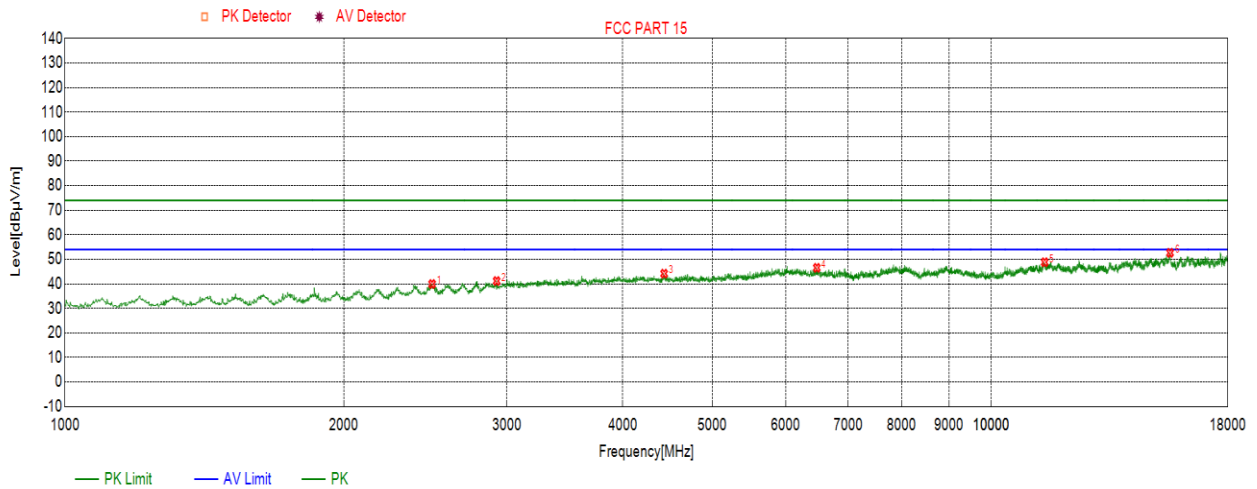
Test Mode	Channel	Polarization	Verdict
11G SISO	LCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1771.8772	42.47	74.00	-31.53	54.00	-11.53	peak
2	3633.5634	42.83	74.00	-31.17	54.00	-11.17	peak
3	6003.6004	46.71	74.00	-27.29	54.00	-7.29	peak
4	8960.1960	47.68	74.00	-26.32	54.00	-6.32	peak
5	11835.1835	49.45	74.00	-24.55	54.00	-4.55	peak
6	15614.6615	52.24	74.00	-21.76	54.00	-1.76	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

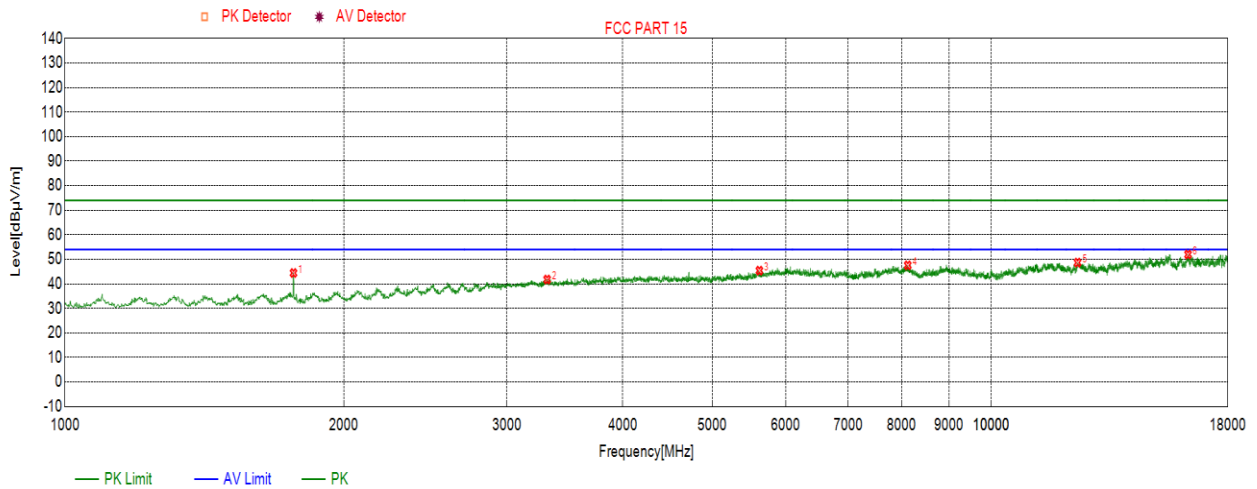
Test Mode	Channel	Polarization	Verdict
11G SISO	MCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2491.0491	39.94	74.00	-34.06	54.00	-14.06	peak
2	2924.5925	41.16	74.00	-32.84	54.00	-12.84	peak
3	4434.3434	44.18	74.00	-29.82	54.00	-9.82	peak
4	6481.3481	46.54	74.00	-27.46	54.00	-7.46	peak
5	11420.3420	48.82	74.00	-25.18	54.00	-5.18	peak
6	15595.9596	52.66	74.00	-21.34	54.00	-1.34	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

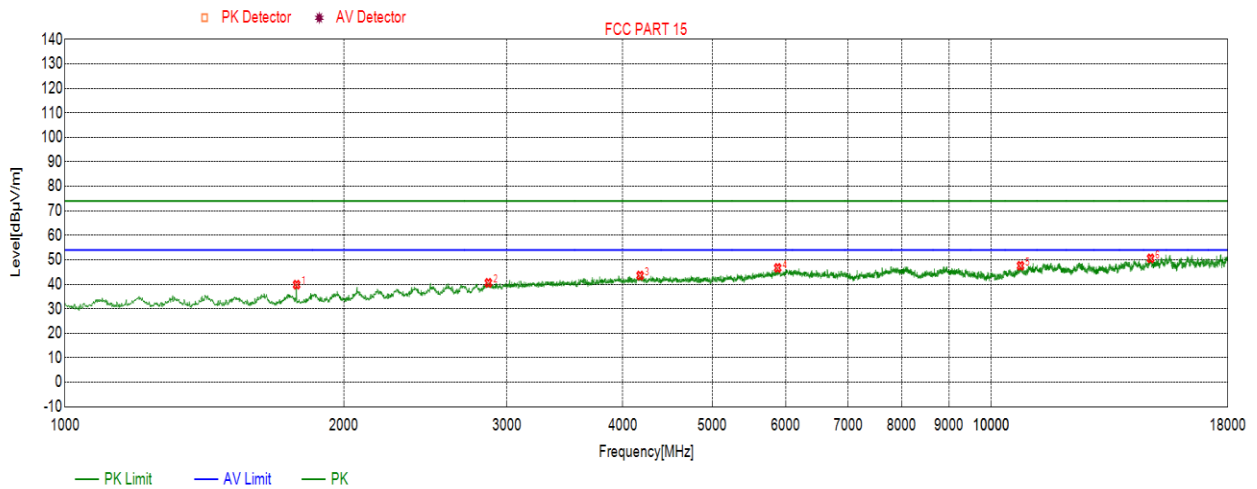
Test Mode	Channel	Polarization	Verdict
11G SISO	MCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1765.0765	44.44	74.00	-29.56	54.00	-9.56	peak
2	3315.6316	41.76	74.00	-32.24	54.00	-12.24	peak
3	5619.3619	45.39	74.00	-28.61	54.00	-8.61	peak
4	8125.4125	47.55	74.00	-26.45	54.00	-6.45	peak
5	12392.8393	48.66	74.00	-25.34	54.00	-5.34	peak
6	16306.6307	51.97	74.00	-22.03	54.00	-2.03	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

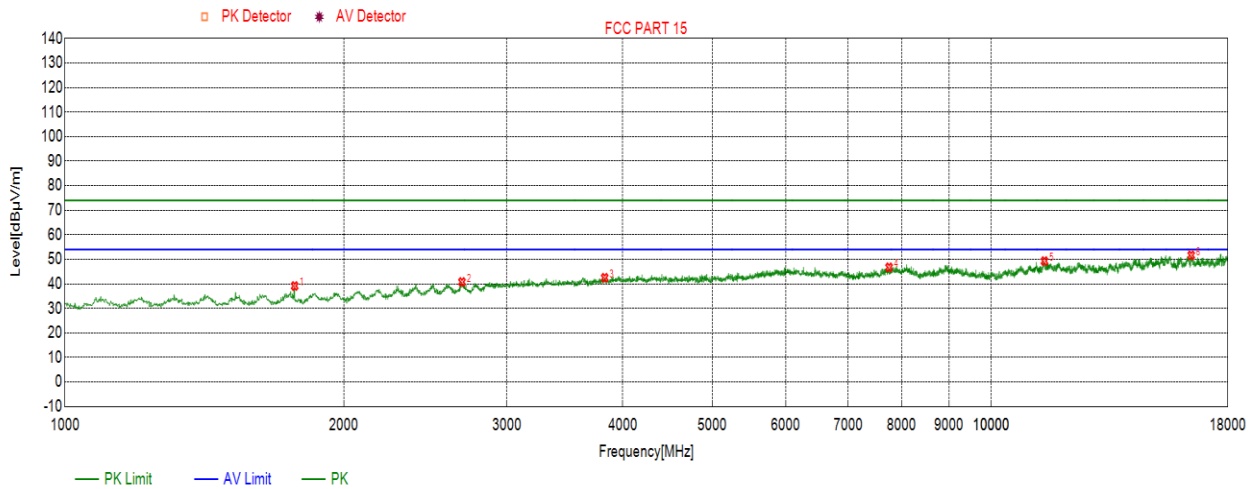
Test Mode	Channel	Polarization	Verdict
11G SISO	HCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1778.6779	39.85	74.00	-34.15	54.00	-14.15	peak
2	2865.0865	40.59	74.00	-33.41	54.00	-13.41	peak
3	4177.6178	43.58	74.00	-30.42	54.00	-10.42	peak
4	5881.1881	46.70	74.00	-27.30	54.00	-7.30	peak
5	10753.8754	47.59	74.00	-26.41	54.00	-6.41	peak
6	14859.7860	50.58	74.00	-23.42	54.00	-3.42	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Mode	Channel	Polarization	Verdict
11G SISO	HCH	Vertical	PASS

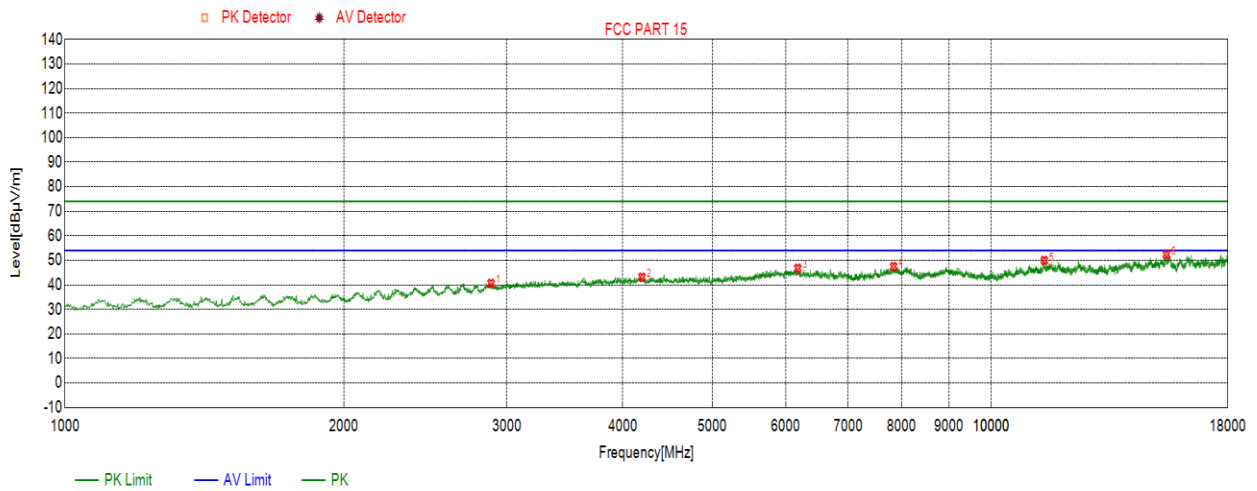


No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1770.1770	39.12	74.00	-34.88	54.00	-14.88	peak
2	2683.1683	40.76	74.00	-33.24	54.00	-13.24	peak
3	3825.6826	42.48	74.00	-31.52	54.00	-11.52	peak
4	7756.4756	46.74	74.00	-27.26	54.00	-7.26	peak
5	11413.5414	49.27	74.00	-24.73	54.00	-4.73	peak
6	16435.8436	51.66	74.00	-22.34	54.00	-2.34	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Antenna1+Antenna2

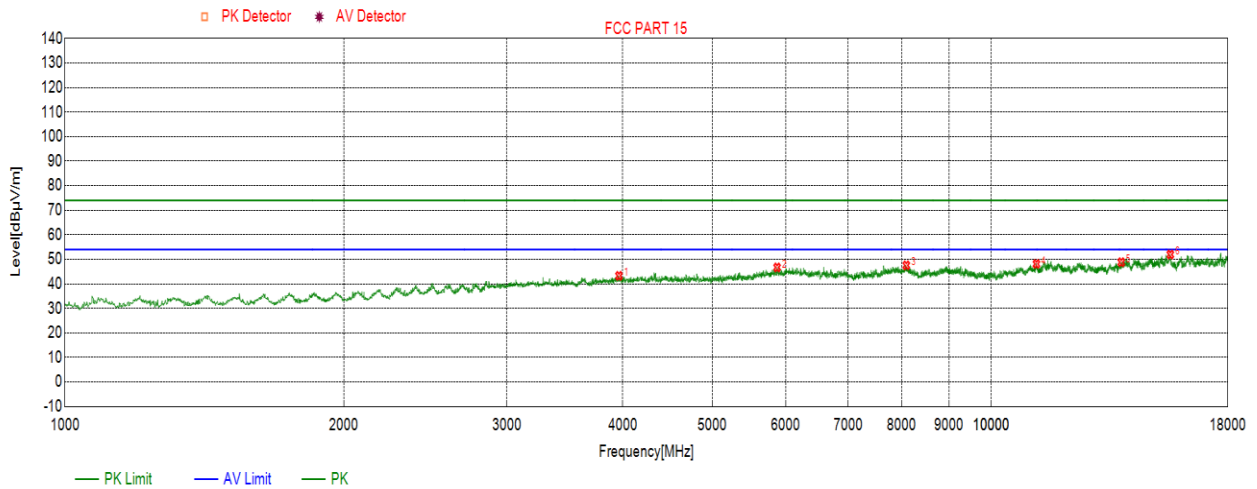
Test Mode	Channel	Polarization	Verdict
11N20MIMO	LCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2883.7884	40.60	74.00	-33.40	54.00	-13.40	peak
2	4196.3196	43.11	74.00	-30.89	54.00	-10.89	peak
3	6182.1182	46.76	74.00	-27.24	54.00	-7.24	peak
4	7843.1843	47.44	74.00	-26.56	54.00	-6.56	peak
5	11410.1410	49.93	74.00	-24.07	54.00	-4.07	peak
6	15453.1453	52.35	74.00	-21.65	54.00	-1.65	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

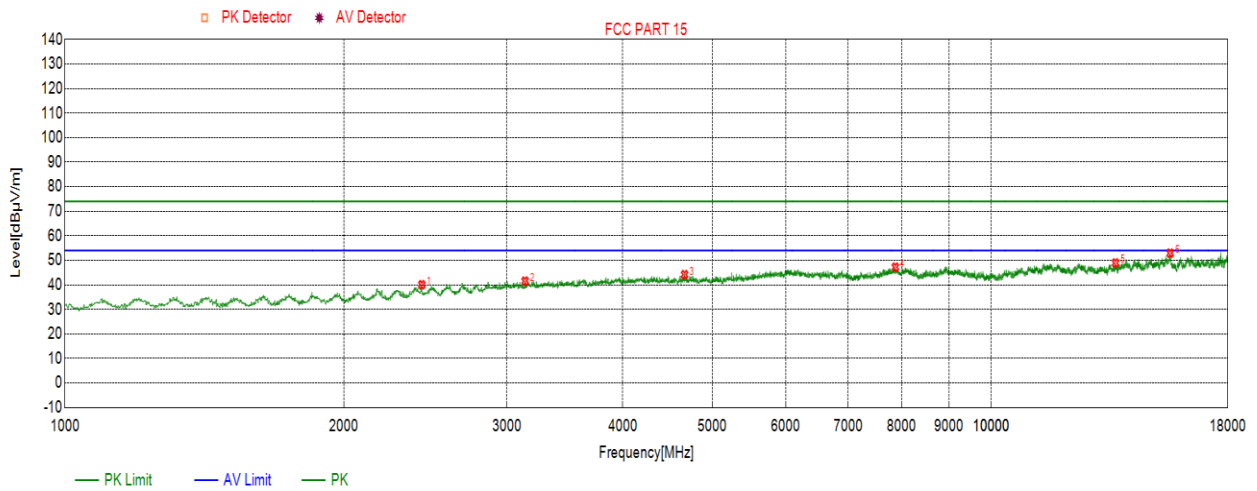
Test Mode	Channel	Polarization	Verdict
11N20MIMO	LCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3963.3963	43.26	74.00	-30.74	54.00	-10.74	peak
2	5872.6873	46.69	74.00	-27.31	54.00	-7.31	peak
3	8096.5097	47.55	74.00	-26.45	54.00	-6.45	peak
4	11187.4187	48.12	74.00	-25.88	54.00	-5.88	peak
5	13815.8816	48.82	74.00	-25.18	54.00	-5.18	peak
6	15606.1606	51.96	74.00	-22.04	54.00	-2.04	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

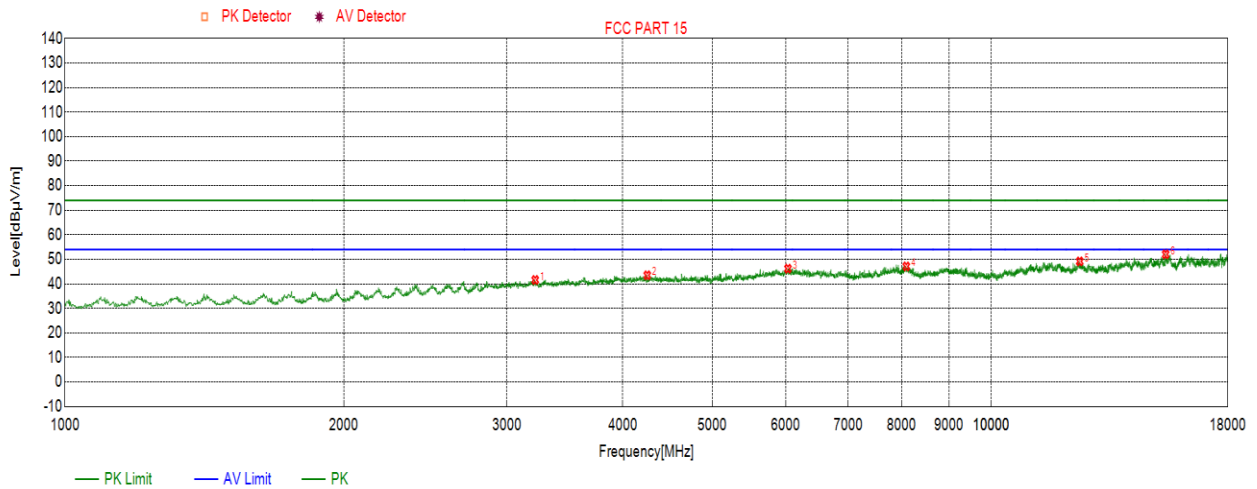
Test Mode	Channel	Polarization	Verdict
11N20MIMO	MCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2428.1428	40.05	74.00	-33.95	54.00	-13.95	peak
2	3138.8139	41.51	74.00	-32.49	54.00	-12.49	peak
3	4665.5666	44.15	74.00	-29.85	54.00	-9.85	peak
4	7878.8879	47.19	74.00	-26.81	54.00	-6.81	peak
5	13615.2615	48.91	74.00	-25.09	54.00	-5.09	peak
6	15599.3599	52.90	74.00	-21.10	54.00	-1.10	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

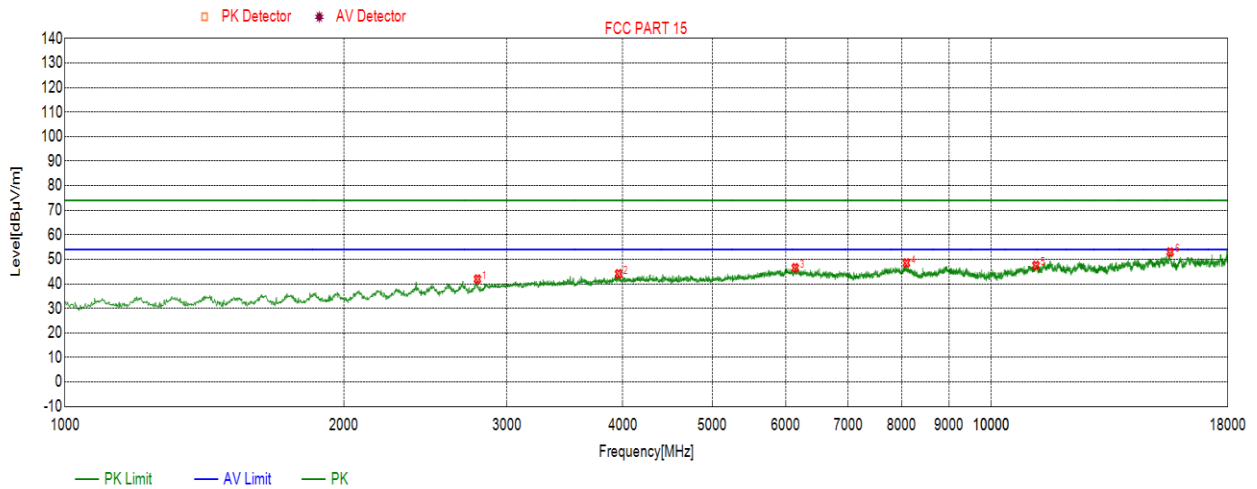
Test Mode	Channel	Polarization	Verdict
11N20MIMO	MCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3218.7219	41.59	74.00	-32.41	54.00	-12.41	peak
2	4252.4252	43.49	74.00	-30.51	54.00	-10.51	peak
3	6032.5033	46.19	74.00	-27.81	54.00	-7.81	peak
4	8096.5097	47.11	74.00	-26.89	54.00	-6.89	peak
5	12459.1459	49.16	74.00	-24.84	54.00	-4.84	peak
6	15424.2424	52.04	74.00	-21.96	54.00	-1.96	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

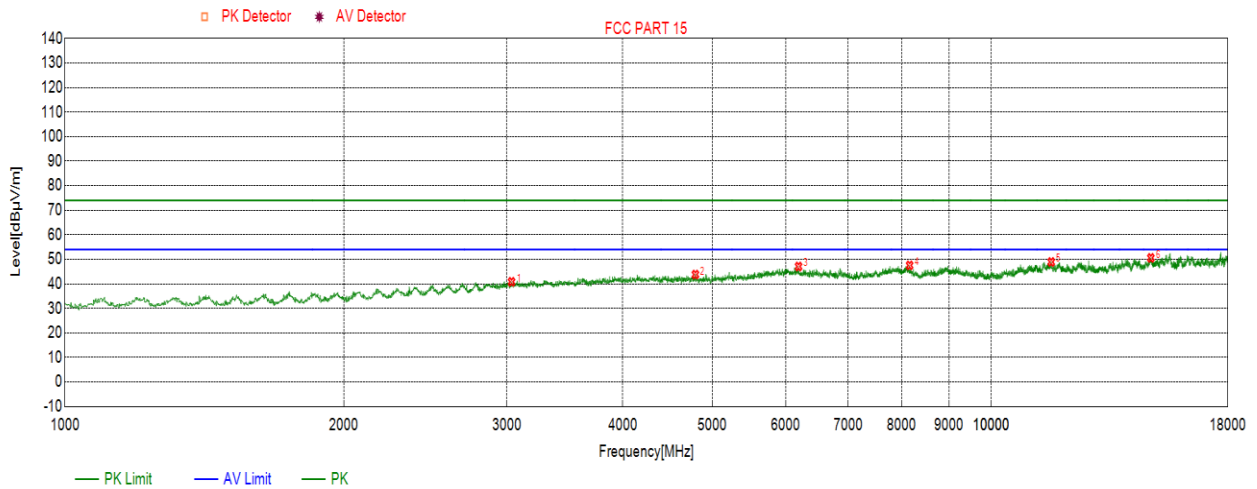
Test Mode	Channel	Polarization	Verdict
11N20MIMO	HCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2788.5789	41.93	74.00	-32.07	54.00	-12.07	peak
2	3959.9960	44.08	74.00	-29.92	54.00	-9.92	peak
3	6143.0143	46.54	74.00	-27.46	54.00	-7.46	peak
4	8098.2098	48.49	74.00	-25.51	54.00	-5.51	peak
5	11173.8174	47.50	74.00	-26.50	54.00	-6.50	peak
6	15597.6598	52.93	74.00	-21.07	54.00	-1.07	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

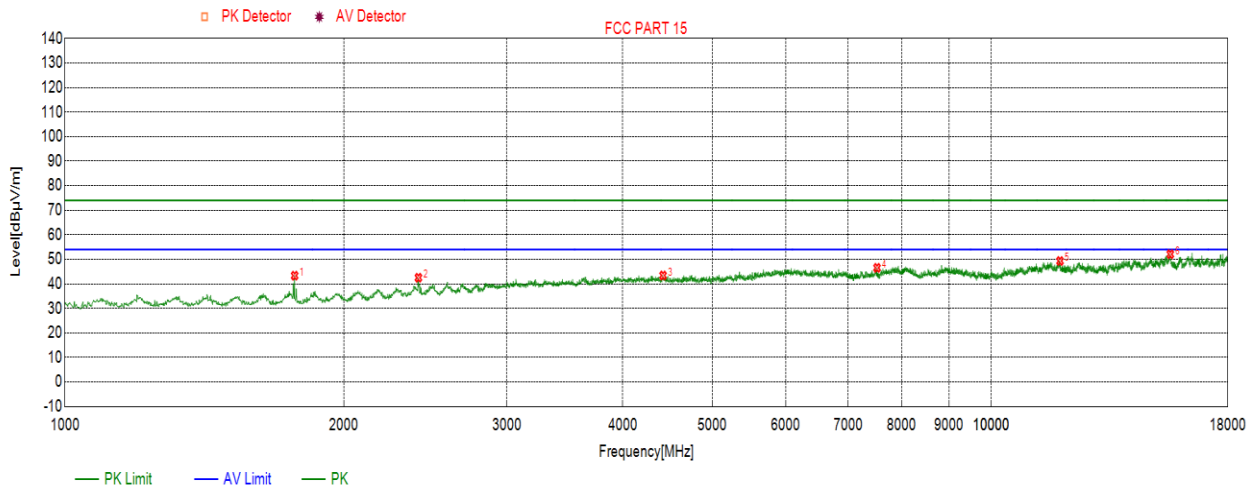
Test Mode	Channel	Polarization	Verdict
11N20MIMO	HCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3035.1035	40.84	74.00	-33.16	54.00	-13.16	peak
2	4793.0793	43.79	74.00	-30.21	54.00	-10.21	peak
3	6194.0194	47.07	74.00	-26.93	54.00	-6.93	peak
4	8162.8163	47.53	74.00	-26.47	54.00	-6.47	peak
5	11607.3607	48.92	74.00	-25.08	54.00	-5.08	peak
6	14868.2868	50.59	74.00	-23.41	54.00	-3.41	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

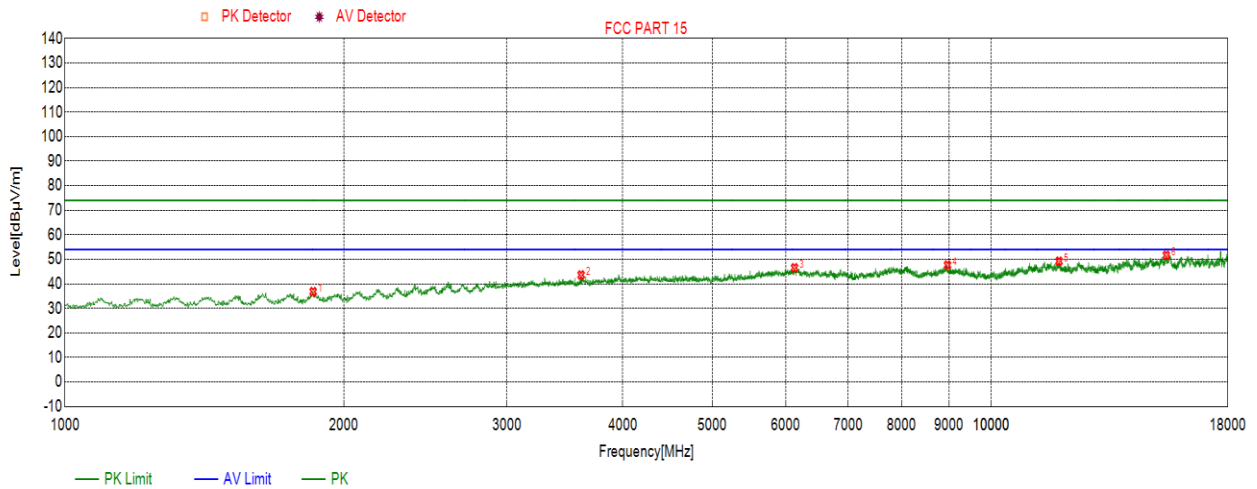
Test Mode	Channel	Polarization	Verdict
11N40MIMO	LCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1770.1770	43.34	74.00	-30.66	54.00	-10.66	peak
2	2407.7408	42.51	74.00	-31.49	54.00	-11.49	peak
3	4422.4422	43.41	74.00	-30.59	54.00	-10.59	peak
4	7528.6529	46.54	74.00	-27.46	54.00	-7.46	peak
5	11862.3862	49.31	74.00	-24.69	54.00	-4.69	peak
6	15604.4604	52.09	74.00	-21.91	54.00	-1.91	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

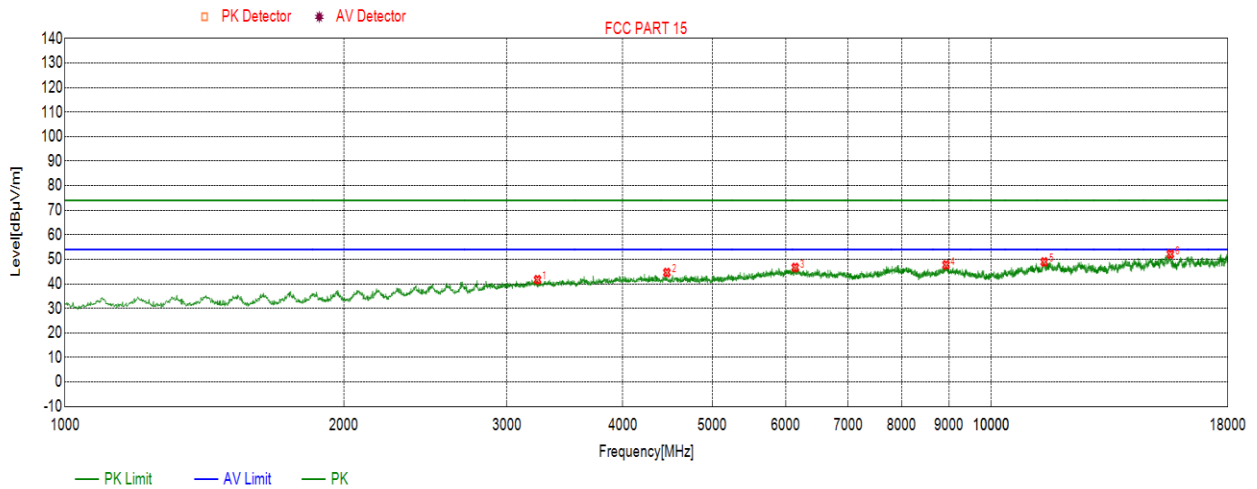
Test Mode	Channel	Polarization	Verdict
11N40MIMO	LCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	1853.4853	36.82	74.00	-37.18	54.00	-17.18	peak
2	3608.0608	43.60	74.00	-30.40	54.00	-10.40	peak
3	6132.8133	46.52	74.00	-27.48	54.00	-7.48	peak
4	8968.6969	47.63	74.00	-26.37	54.00	-6.37	peak
5	11833.4833	49.22	74.00	-24.78	54.00	-4.78	peak
6	15451.4451	51.64	74.00	-22.36	54.00	-2.36	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

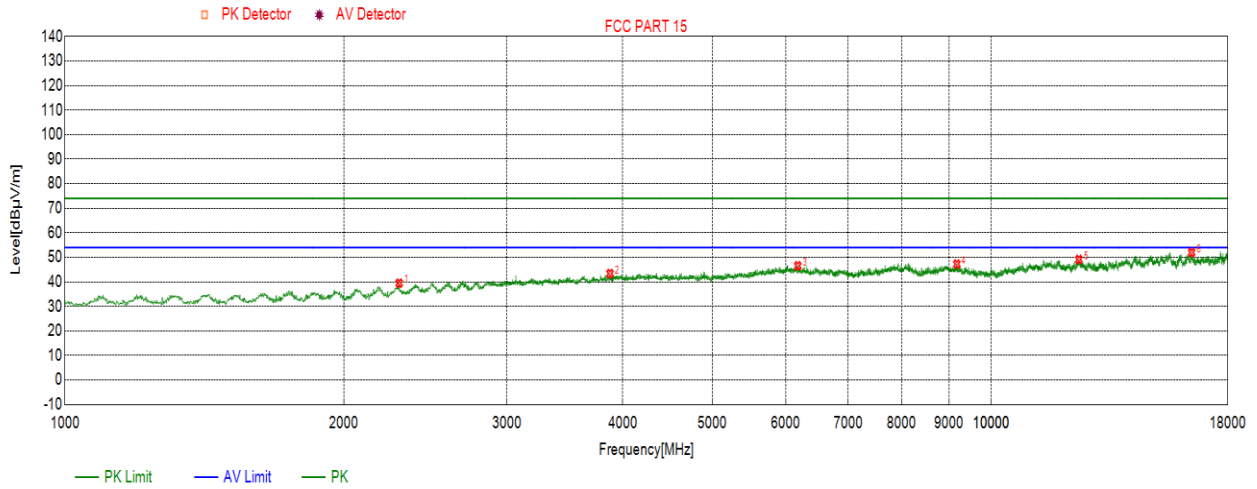
Test Mode	Channel	Polarization	Verdict
11N40MIMO	MCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3237.4237	41.67	74.00	-32.33	54.00	-12.33	peak
2	4464.9465	44.60	74.00	-29.40	54.00	-9.40	peak
3	6143.0143	46.65	74.00	-27.35	54.00	-7.35	peak
4	8936.3936	47.73	74.00	-26.27	54.00	-6.27	peak
5	11406.7407	48.92	74.00	-25.08	54.00	-5.08	peak
6	15606.1606	52.12	74.00	-21.88	54.00	-1.88	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

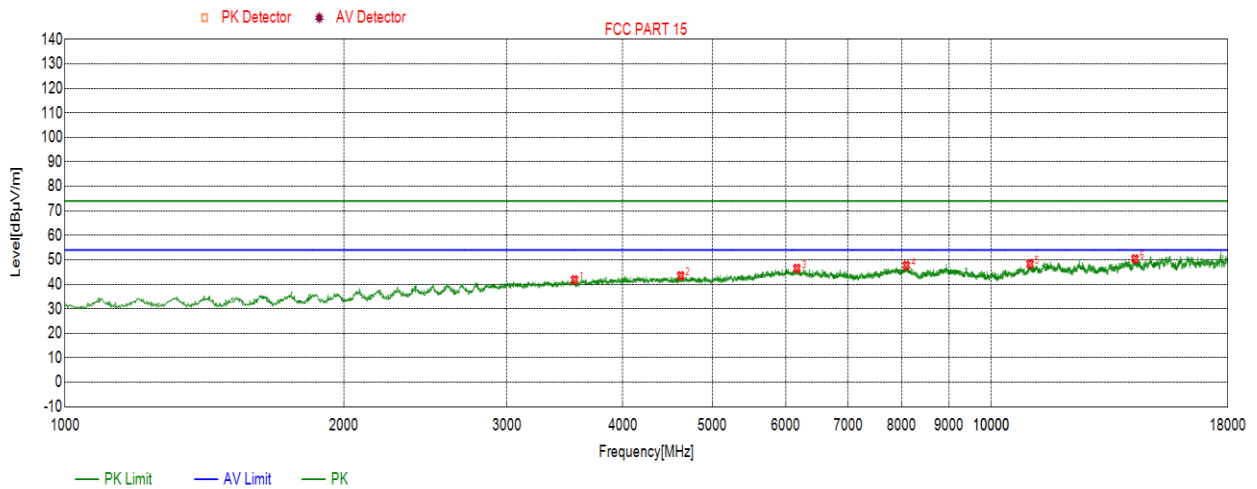
Test Mode	Channel	Polarization	Verdict
11N40MIMO	MCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	2295.5296	39.46	74.00	-34.54	54.00	-14.54	peak
2	3876.6877	43.38	74.00	-30.62	54.00	-10.62	peak
3	6182.1182	46.53	74.00	-27.47	54.00	-7.47	peak
4	9177.8178	47.24	74.00	-26.76	54.00	-6.76	peak
5	12431.9432	49.11	74.00	-24.89	54.00	-4.89	peak
6	16452.8453	51.95	74.00	-22.05	54.00	-2.05	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

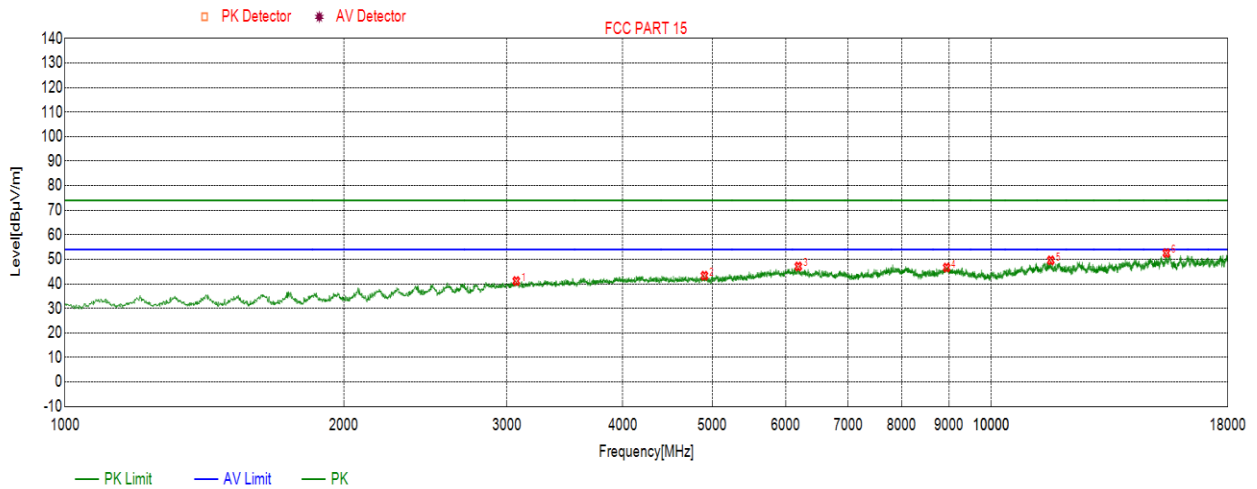
Test Mode	Channel	Polarization	Verdict
11N40MIMO	HCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3548.5549	41.83	74.00	-32.17	54.00	-12.17	peak
2	4621.3621	43.46	74.00	-30.54	54.00	-10.54	peak
3	6168.5169	46.47	74.00	-27.53	54.00	-7.53	peak
4	8096.5097	47.70	74.00	-26.30	54.00	-6.30	peak
5	11010.6011	48.30	74.00	-25.70	54.00	-5.70	peak
6	14293.6294	50.36	74.00	-23.64	54.00	-3.64	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Mode	Channel	Polarization	Verdict
11N40MIMO	HCH	Vertical	PASS



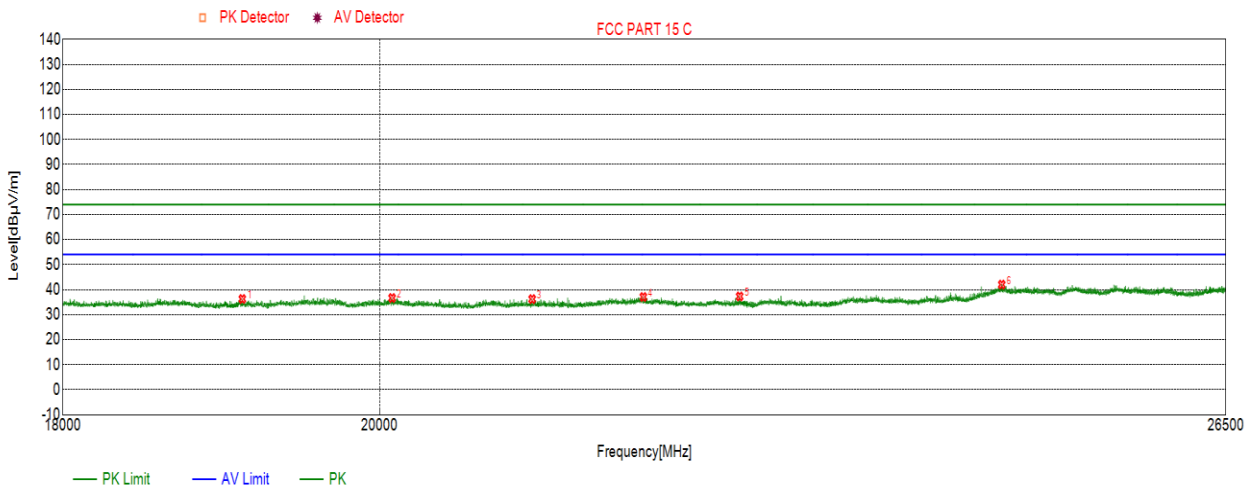
No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	3070.8071	41.15	74.00	-32.85	54.00	-12.85	peak
2	4901.8902	43.32	74.00	-30.68	54.00	-10.68	peak
3	6190.6191	47.09	74.00	-26.91	54.00	-6.91	peak
4	8949.9950	46.65	74.00	-27.35	54.00	-7.35	peak
5	11595.4595	49.58	74.00	-24.42	54.00	-4.42	peak
6	15451.4451	52.56	74.00	-21.44	54.00	-1.44	peak

Note: 1. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

6.6.4. SPURIOUS EMISSIONS 18G ~ 26GHz

SPURIOUS EMISSIONS 18GHz TO 26GHz (WORST-CASE CONFIGURATION)

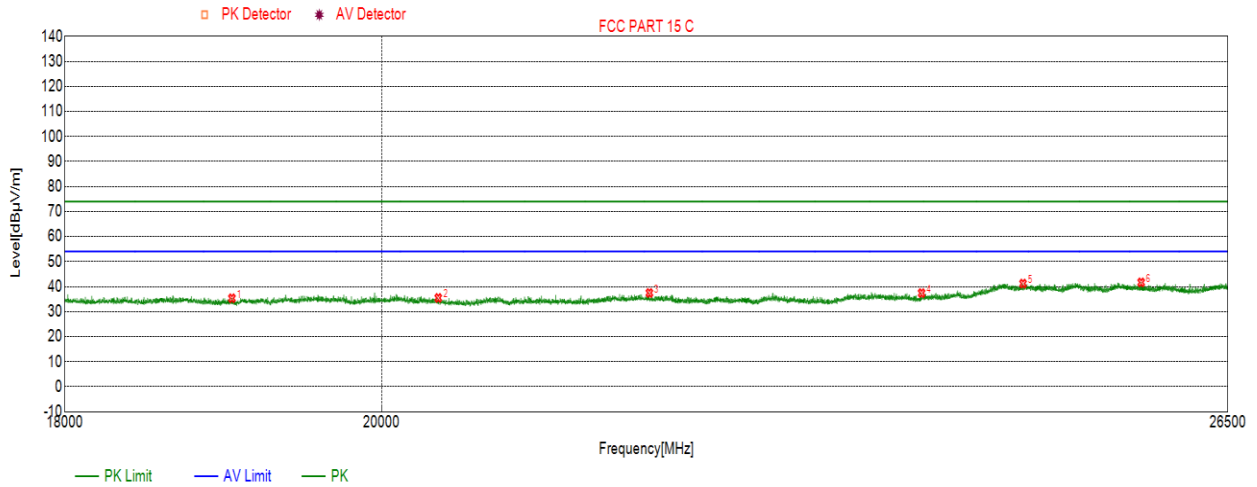
Test Mode	Channel	Polarization	Verdict
11B	LCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	19106.8107	36.25	74.00	-37.75	54.00	-17.75	peak
2	20082.7083	36.63	74.00	-37.37	54.00	-17.37	peak
3	21040.7541	36.19	74.00	-37.81	54.00	-17.81	peak
4	21833.0333	37.04	74.00	-36.96	54.00	-16.96	peak
5	22543.7044	37.25	74.00	-36.75	54.00	-16.75	peak
6	24597.5098	41.99	74.00	-32.01	54.00	-12.01	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

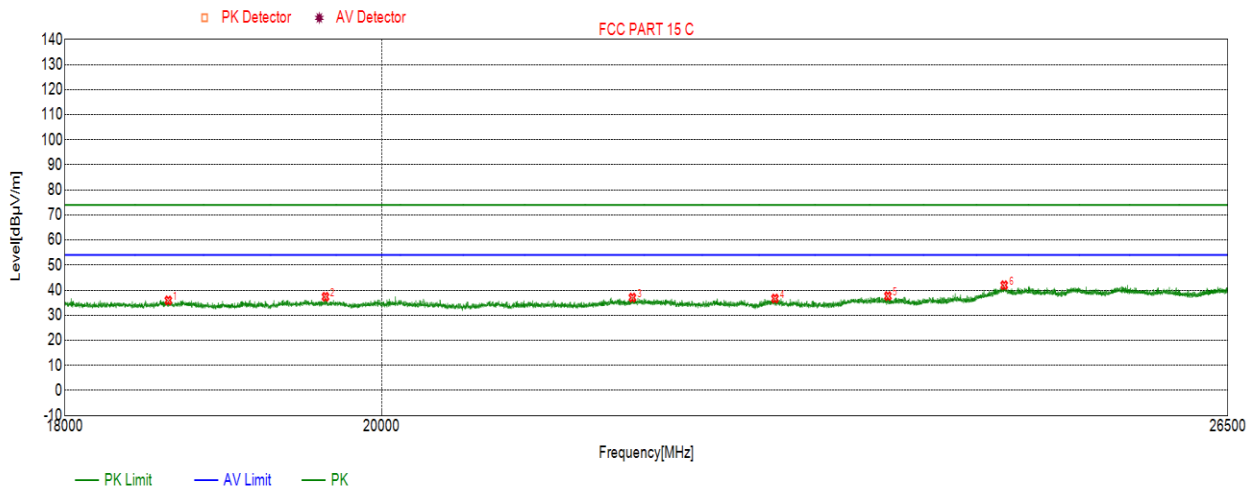
Test Mode	Channel	Polarization	Verdict
11B	LCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	19028.6029	35.33	74.00	-38.67	54.00	-18.67	peak
2	20380.2380	35.47	74.00	-38.53	54.00	-18.53	peak
3	21862.7863	37.46	74.00	-36.54	54.00	-16.54	peak
4	23934.4434	37.41	74.00	-36.59	54.00	-16.59	peak
5	24755.6256	41.19	74.00	-32.81	54.00	-12.81	peak
6	25747.6748	41.67	74.00	-32.33	54.00	-12.33	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

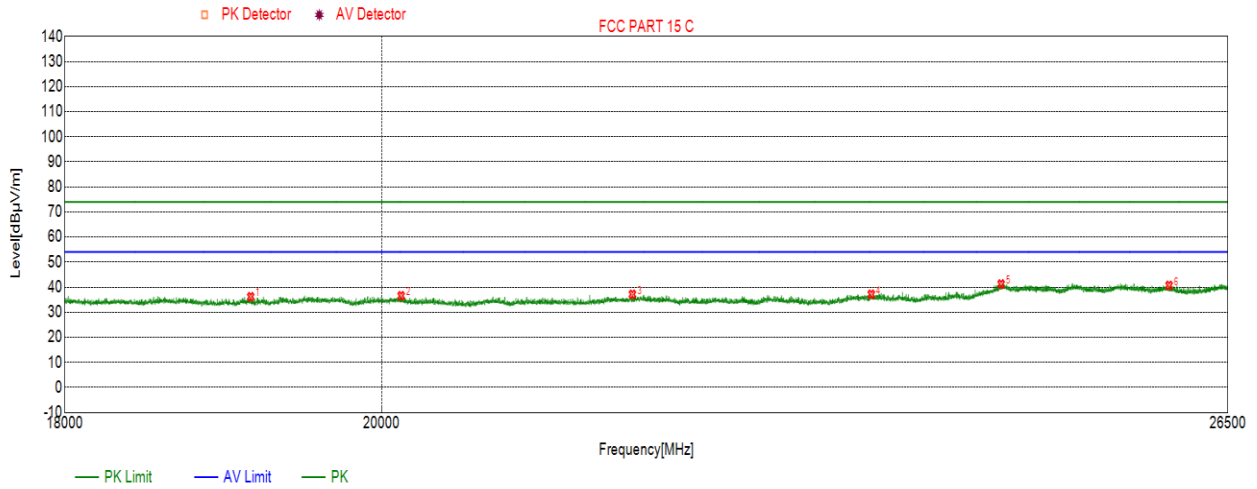
Test Mode	Channel	Polarization	Verdict
11B	MCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV /m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	18629.9130	35.91	74.00	-38.09	54.00	-18.09	peak
2	19629.6130	37.35	74.00	-36.65	54.00	-16.65	peak
3	21739.5240	37.04	74.00	-36.96	54.00	-16.96	peak
4	22795.3295	36.67	74.00	-37.33	54.00	-17.33	peak
5	23667.5168	37.64	74.00	-36.36	54.00	-16.36	peak
6	24600.9101	41.98	74.00	-32.02	54.00	-12.02	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

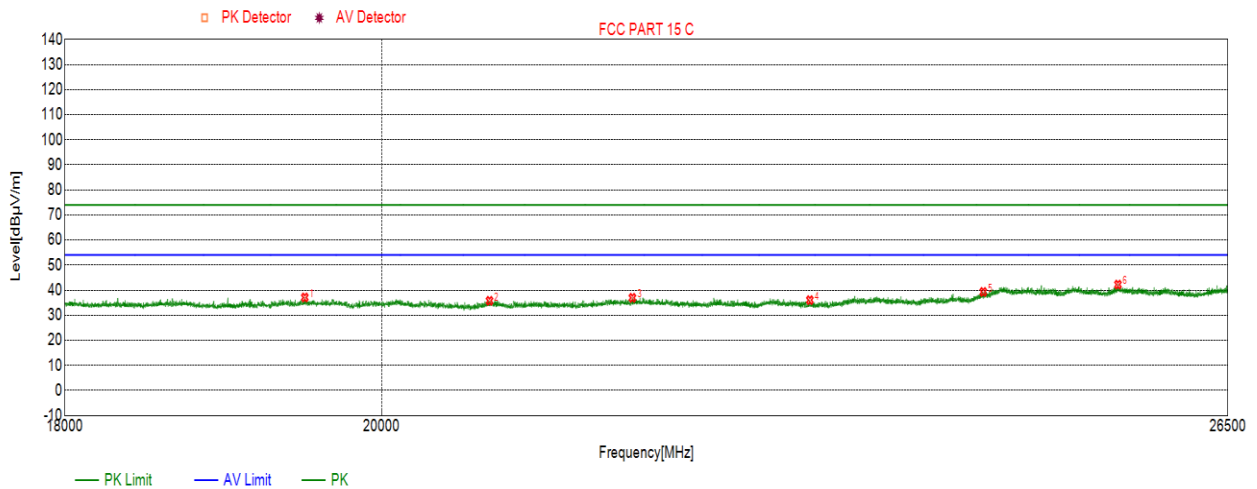
Test Mode	Channel	Polarization	Verdict
11B	MCH	Vertical	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	19147.6148	36.16	74.00	-37.84	54.00	-17.84	peak
2	20130.3130	36.55	74.00	-37.45	54.00	-17.45	peak
3	21739.5240	37.14	74.00	-36.86	54.00	-16.86	peak
4	23537.4537	37.15	74.00	-36.85	54.00	-16.85	peak
5	24576.2576	41.23	74.00	-32.77	54.00	-12.77	peak
6	25988.2488	40.69	74.00	-33.31	54.00	-13.31	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

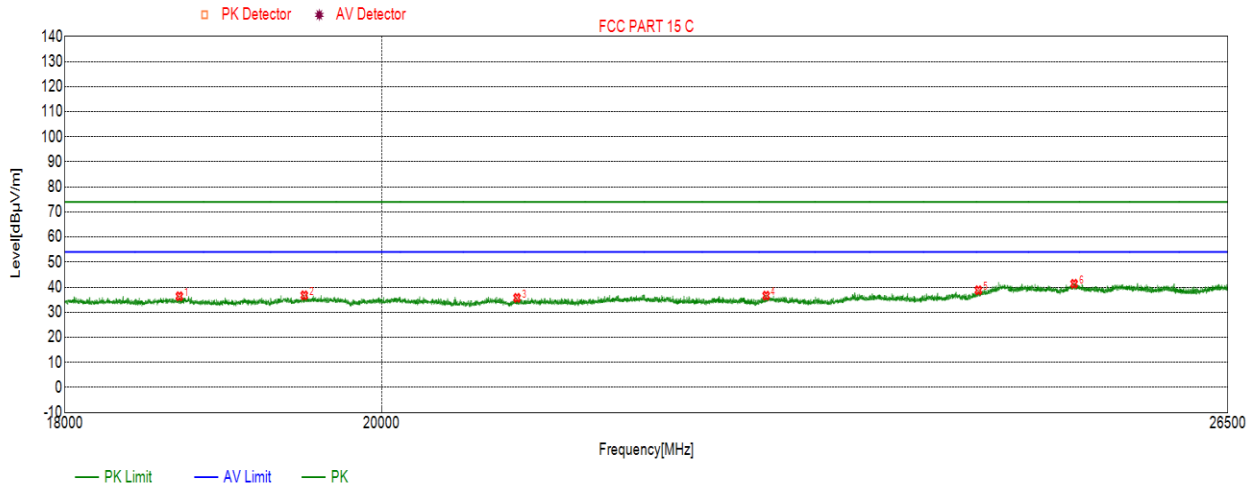
Test Mode	Channel	Polarization	Verdict
11B	HCH	Horizontal	PASS



No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	19495.2995	37.07	74.00	-36.93	54.00	-16.93	peak
2	20730.4730	35.75	74.00	-38.25	54.00	-18.25	peak
3	21739.5240	36.95	74.00	-37.05	54.00	-17.05	peak
4	23061.4061	36.03	74.00	-37.97	54.00	-17.97	peak
5	24430.0430	39.30	74.00	-34.70	54.00	-14.70	peak
6	25549.6050	42.23	74.00	-31.77	54.00	-11.77	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Test Mode	Channel	Polarization	Verdict
11B	HCH	Vertical	PASS



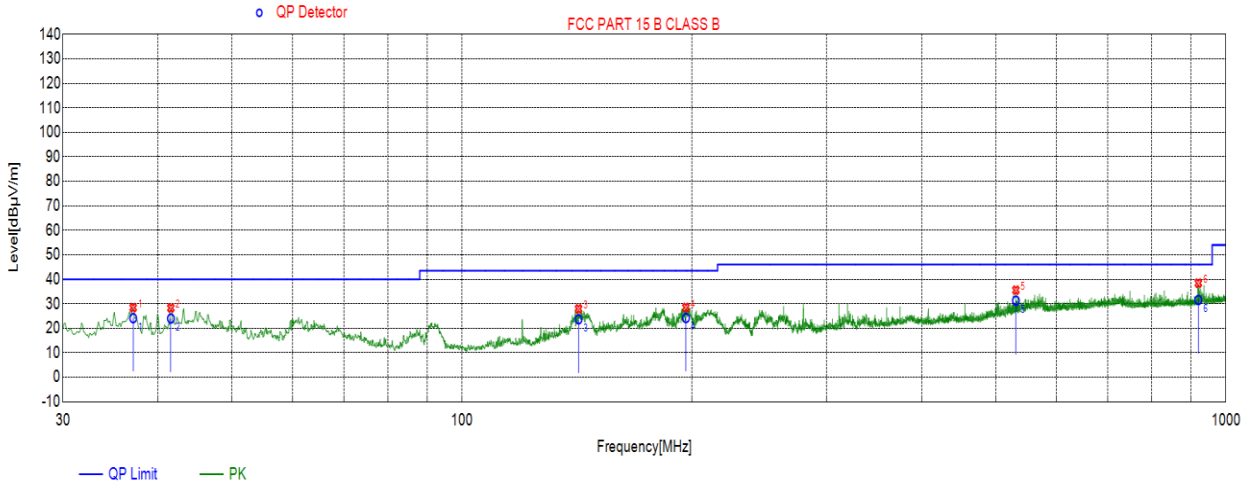
No.	Frequency	Result	Limit (Peak)	Margin (Peak)	Limit (Ave)	Margin (Ave)	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	
1	18698.7699	36.37	74.00	-37.63	54.00	-17.63	peak
2	19491.8992	36.75	74.00	-37.25	54.00	-17.25	peak
3	20920.8921	35.73	74.00	-38.27	54.00	-18.27	peak
4	22728.1728	36.63	74.00	-37.37	54.00	-17.37	peak
5	24390.9391	38.78	74.00	-35.22	54.00	-15.22	peak
6	25179.8180	41.36	74.00	-32.64	54.00	-12.64	peak

Note: 1.If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

6.6.5. SPURIOUS EMISSIONS 30M ~ 1GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

Test Mode	Channel	Polarization	Verdict
11B SISO	LCH	Horizontal+ Vertical	PASS



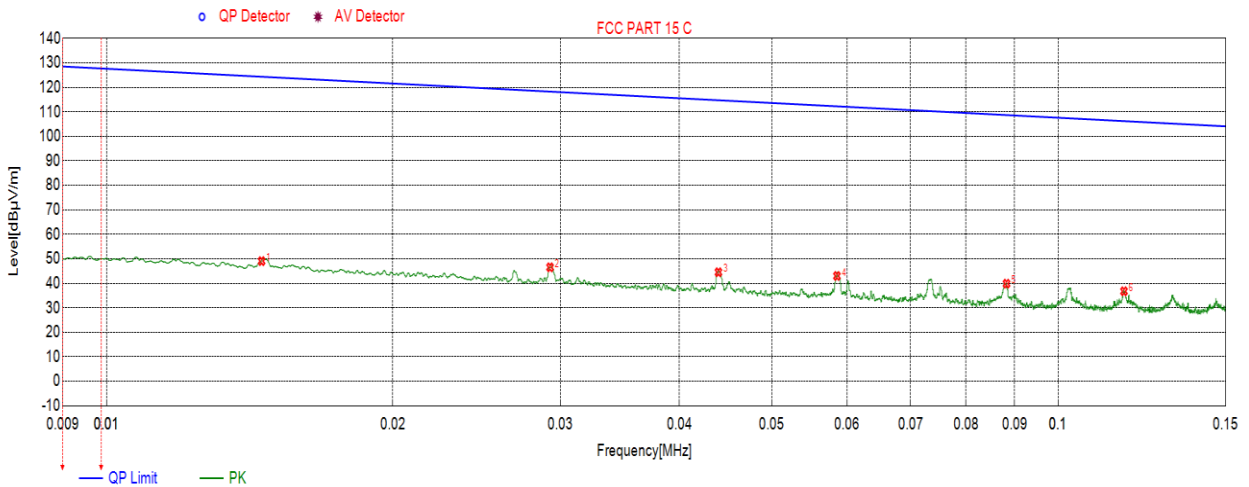
No.	Frequency	Result	Limit	Margin	Polarity	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)		
1	37.0817	24.15	40.00	-15.85	Vertical	QP
2	41.5442	24.01	40.00	-15.99	Vertical	QP
3	142.0462	23.66	43.50	-19.84	Vertical	QP
4	196.3716	24.21	43.50	-19.29	Vertical	QP
5	531.0551	31.29	46.00	-14.71	Vertical	QP
6	920.6461	31.57	46.00	-14.43	Horizontal	QP

Note: 1. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 2. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

6.6.6.SPURIOUS EMISSIONS BELOW 30M

SPURIOUS EMISSIONS Below 30MHz (WORST-CASE CONFIGURATION)

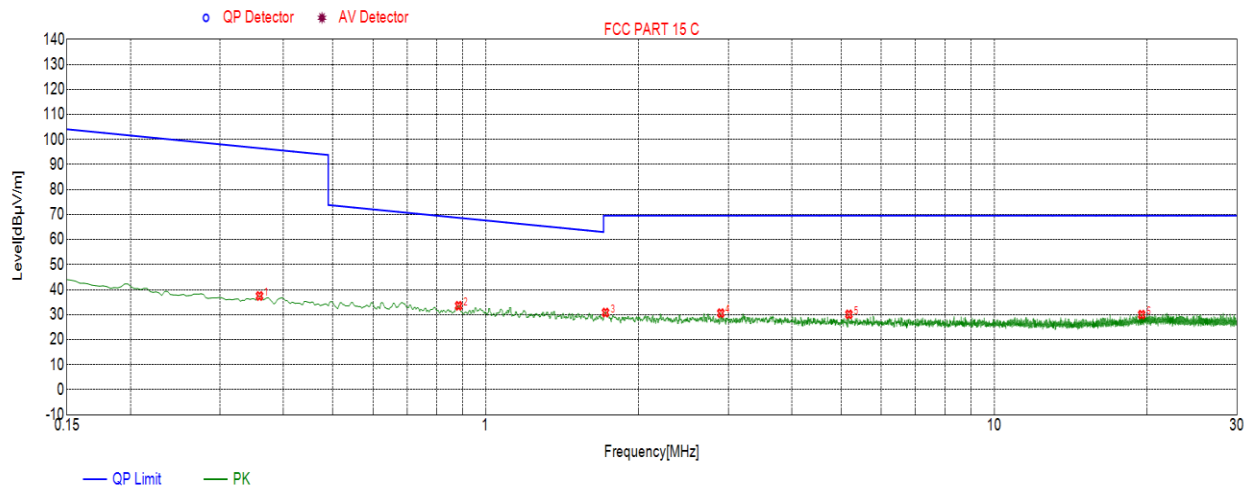
Test Mode	Channel	Frequency Range	Verdict
11B SISO	LCH	9KHz~150KHz	PASS



No.	Frequency	Result	Limit	Margin	Remark
	(KHz)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0146	49.05	124.28	-75.23	Peak
2	0.0293	46.53	118.24	-71.71	Peak
3	0.0440	44.53	114.72	-70.19	Peak
4	0.0586	42.99	112.23	-69.24	Peak
5	0.0883	39.85	108.68	-68.83	Peak
6	0.1173	36.75	106.21	-69.46	Peak

Note: 1.If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

Test Mode	Channel	Frequency Range	Verdict
11B SISO	LCH	150KHz~30MHz	PASS



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.3590	37.45	96.50	-59.05	Peak
2	0.8844	33.53	68.69	-35.16	Peak
3	1.7203	30.82	69.50	-38.68	Peak
4	2.8995	30.58	69.50	-38.92	Peak
5	5.1802	30.09	69.50	-39.41	Peak
6	19.5007	29.98	69.50	-39.52	Peak

Note: 1.If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

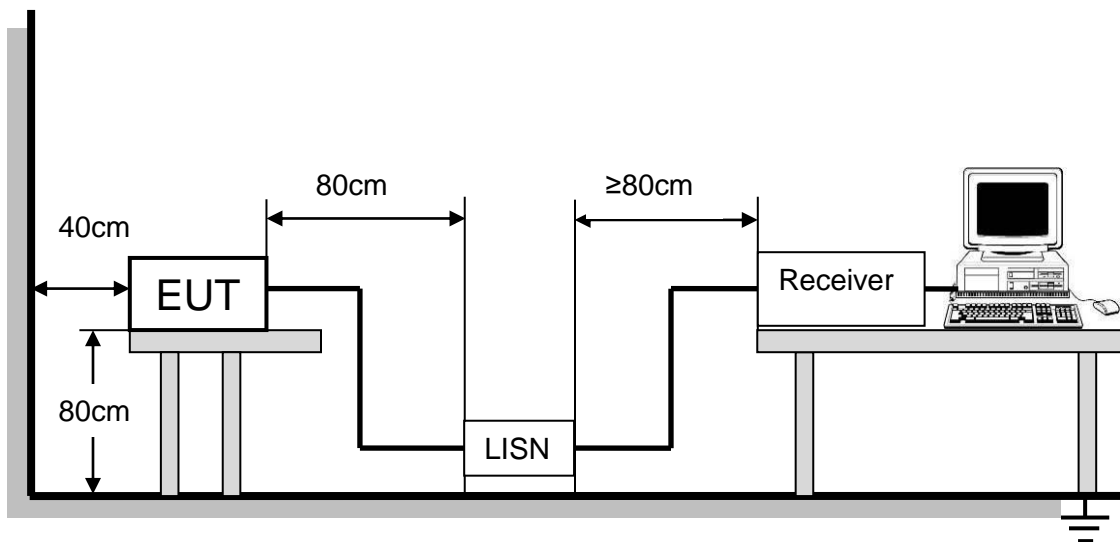
7. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to FCC §15.207 (a)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

TEST SETUP AND PROCEDURE



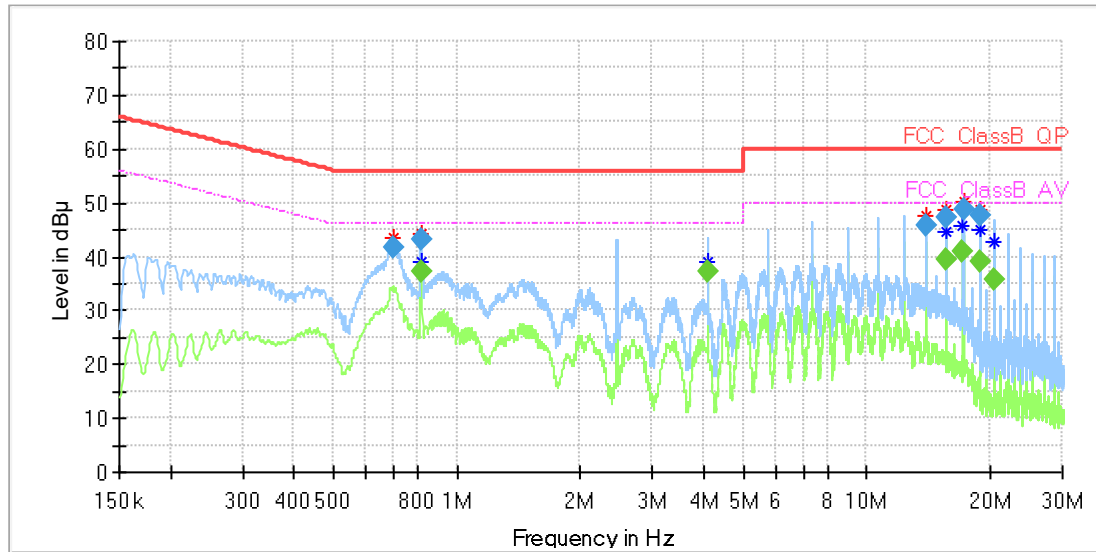
The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 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 Mode	Test Antenna	Channel	Puw(dBm)	Verdict
11B	Antenna 1	LCH	<Limit	PASS

Remark: Pre-testing all test modes and channels, and find only the LCH of 11B mode which is the worst case, so only the data of the worst case is included in this test report.

TEST RESULTS (WORST-CASE CONFIGURATION)



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.700235	41.84	---	56.00	14.16	1000.0	9.000	L1	10.3
0.817645	---	37.16	46.00	8.84	1000.0	9.000	L1	10.0
0.817645	43.06	---	56.00	12.95	1000.0	9.000	L1	10.0
4.092190	---	37.31	46.00	8.69	1000.0	9.000	N	10.0
13.915825	45.85	---	60.00	14.15	1000.0	9.000	L1	10.6
15.551605	---	39.51	50.00	10.49	1000.0	9.000	L1	10.6
15.552600	47.32	---	60.00	12.68	1000.0	9.000	N	10.6
17.188380	---	40.79	50.00	9.21	1000.0	9.000	N	10.8
17.191365	48.83	---	60.00	11.17	1000.0	9.000	L1	10.8
18.824160	---	38.93	50.00	11.07	1000.0	9.000	N	10.9
18.827145	47.65	---	60.00	12.35	1000.0	9.000	L1	10.9
20.461930	---	35.83	50.00	14.17	1000.0	9.000	L1	11.0

- Note: 1. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 2. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).
 3. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

8. 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.

ANTENNA CONNECTOR

EUT has two Dipole Antennas with Chip Antenna connector

ANTENNA GAIN

The antenna gain of EUT is less than 6 dBi.

END OF REPORT