

Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30–88	100	40
88–216	150	43.5
216–960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Measurement Uncertainty

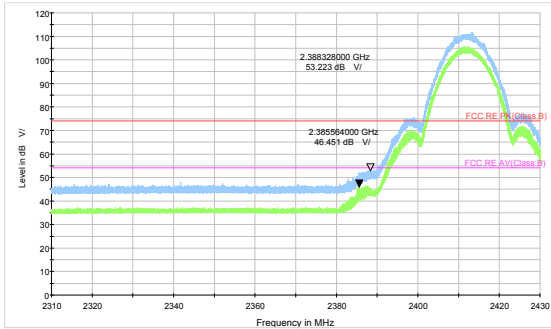
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

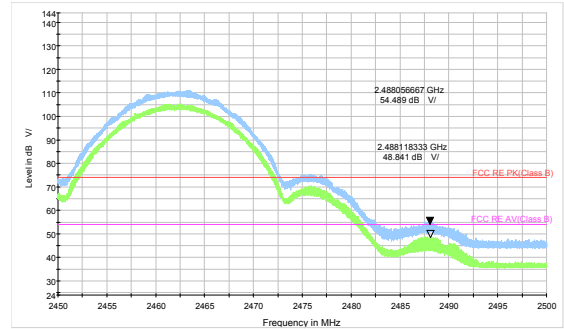
Test Results:

A font (Level in dB μ V/m) in the test plot =(level in dB μ V/m)

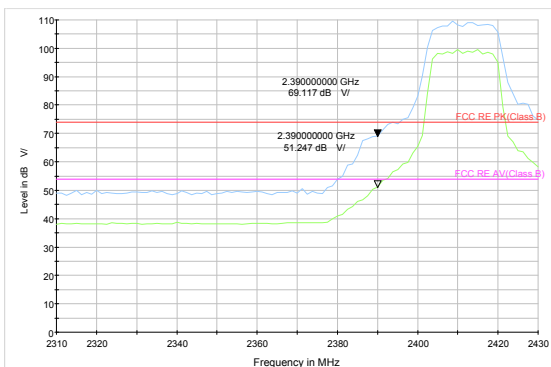
A font (Level in dB V) in the test plot =(level in dB μ V/m)



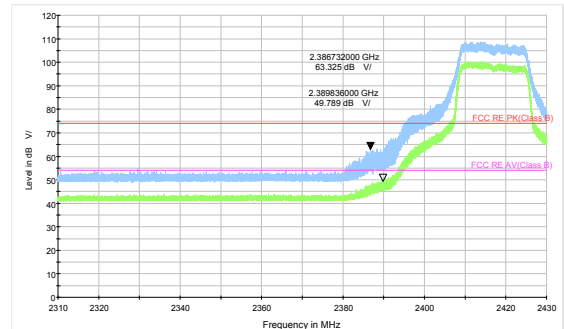
802.11b-Channel 1 Peak+ Average



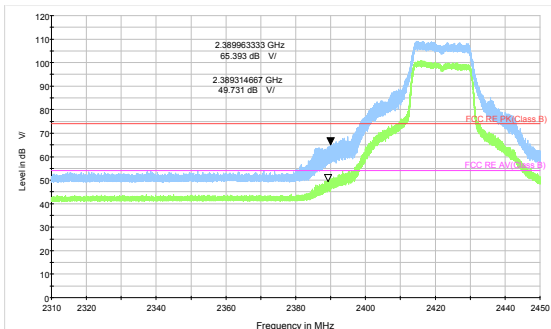
802.11b-Channel 11 Peak+ Average



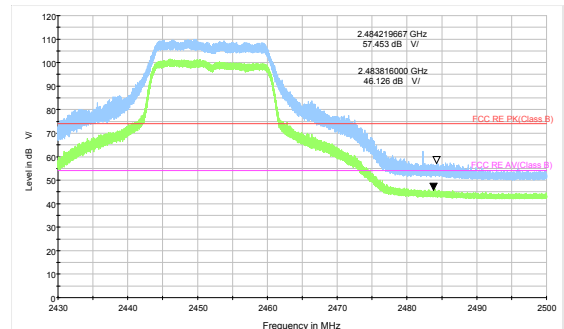
802.11g-Channel 1 Peak+ Average



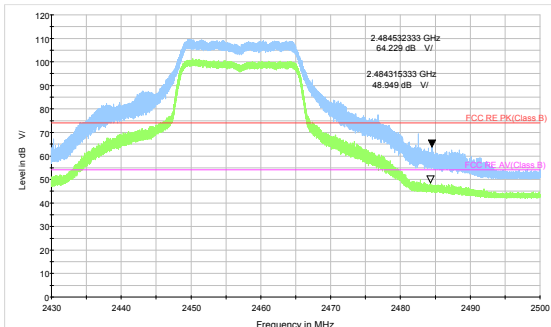
802.11g-Channel 2 Peak+ Average



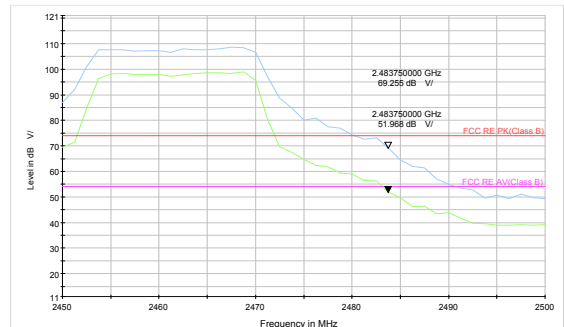
802.11g-Channel 3 Peak+ Average



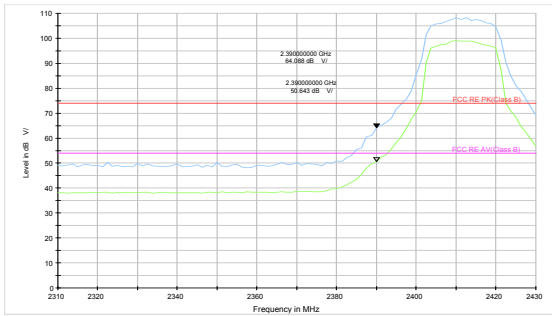
802.11g-Channel 9 Peak+ Average



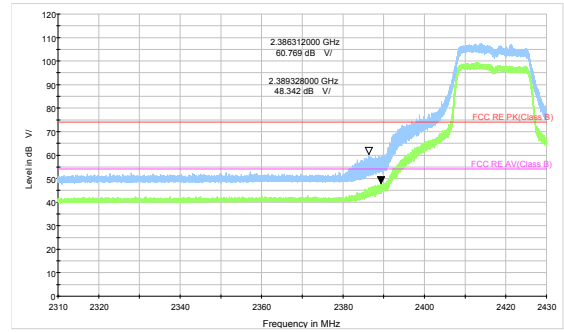
802.11g-Channel 10 Peak+ Average



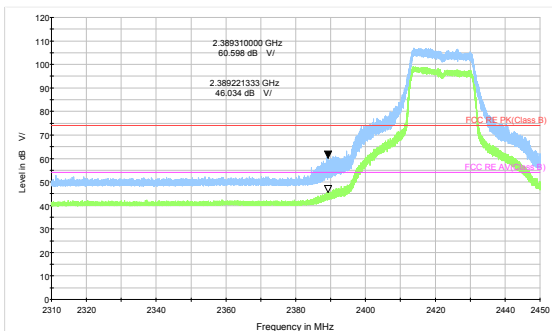
802.11g-Channel 11 Peak+ Average



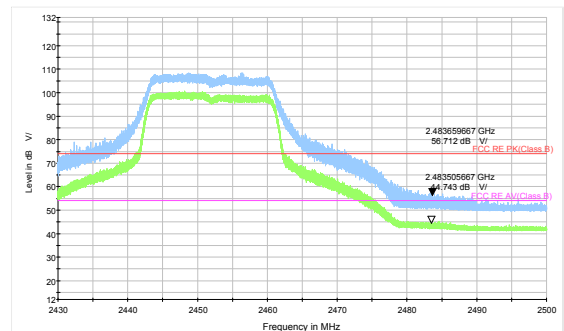
802.11n HT20 -Channel 1 Peak+ Average



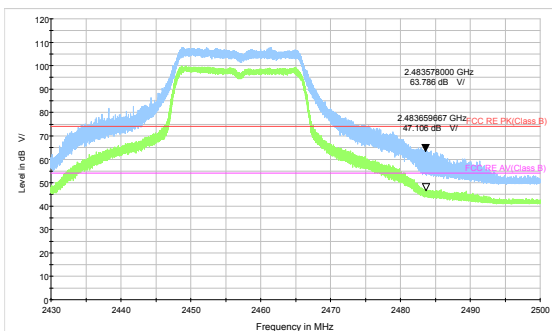
802.11n HT20 -Channel 2 Peak+ Average



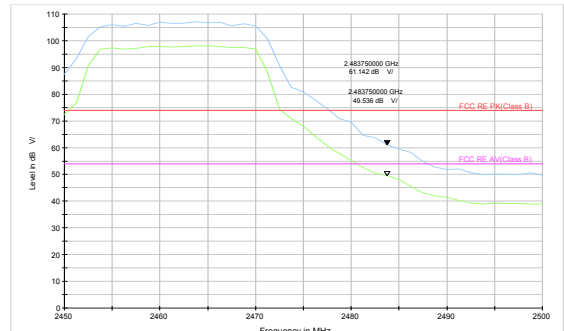
802.11n HT20 -Channel 3 Peak+ Average



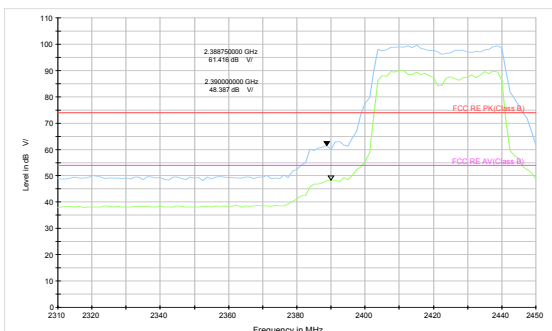
802.11n HT20 -Channel 9 Peak+ Average



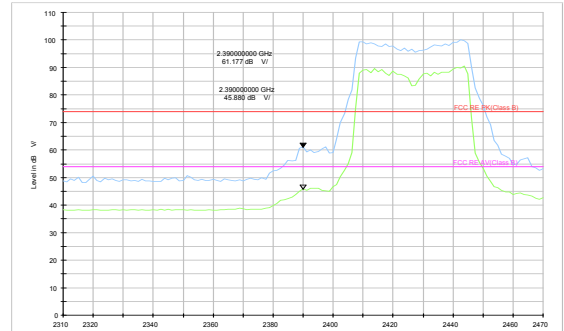
802.11n HT20 -Channel 10 Peak+ Average



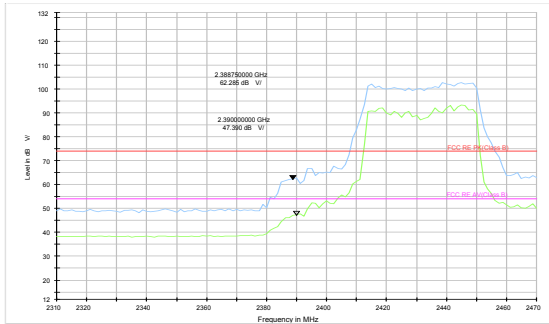
802.11n HT20 -Channel 11 Peak+ Average



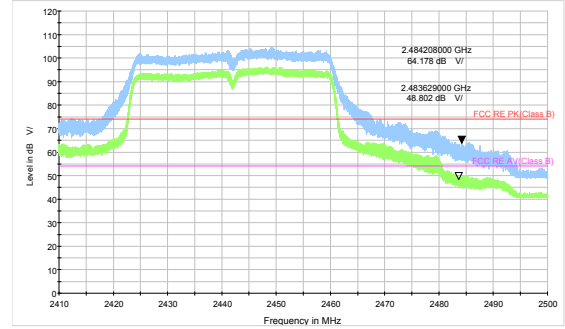
802.11n HT40 -Channel 3 Peak+ Average



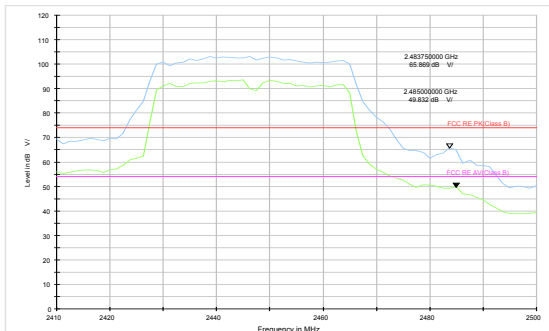
802.11n HT40 -Channel 4 Peak+ Average



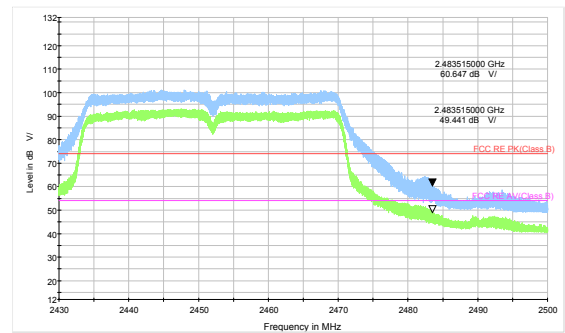
802.11n HT40 -Channel 5 Peak+ Average



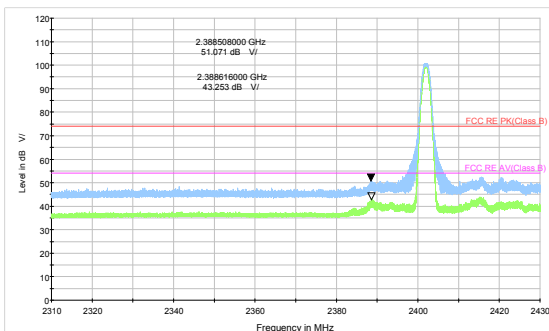
802.11n HT40 -Channel 7 Peak+ Average



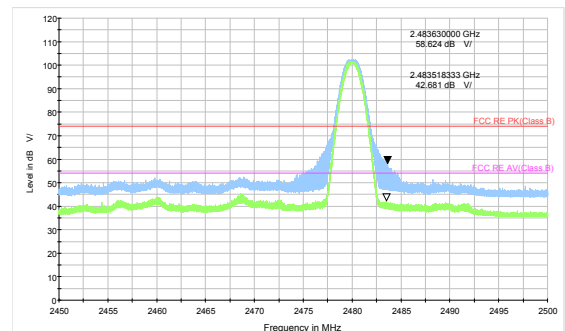
802.11n HT40 -Channel 8 Peak+ Average



802.11n HT40 -Channel 9 Peak+ Average



Bluetooth LE Channel 0 Peak+ Average



Bluetooth LE Channel 39 Peak+Average

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11n (HT40) CH6 and Bluetooth LE-Channel 39 are selected as the worst condition.
The test data of the worst-case condition was recorded in this report.

A font (Level in dB μ V/m) in the test plot =(level in dB μ V/m)

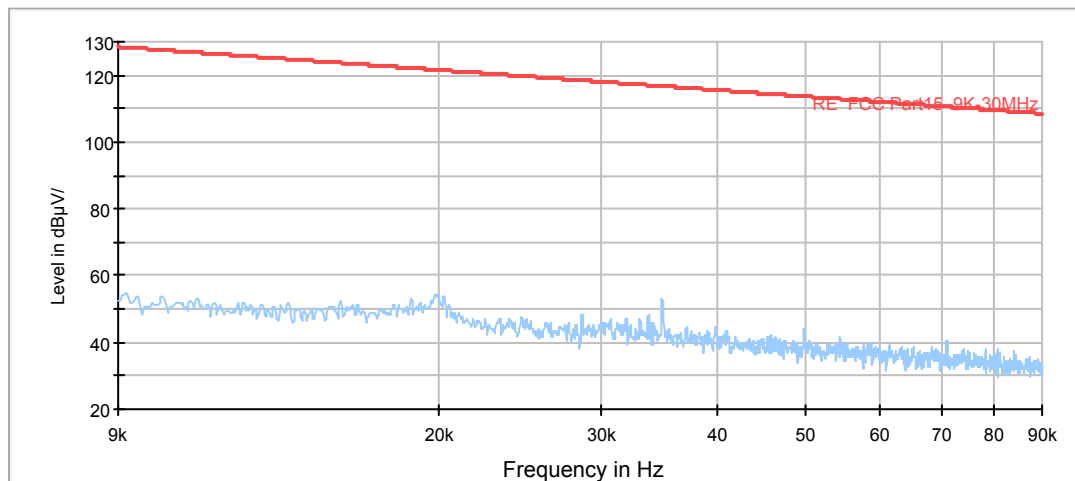
A font (Level in dB μ V) in the test plot =(level in dB μ V/m)

A font (Level in dB V) in the test plot =(level in dB μ V/m)

A font (Level in dB μ V) in the test plot =(level in dB μ V/m)

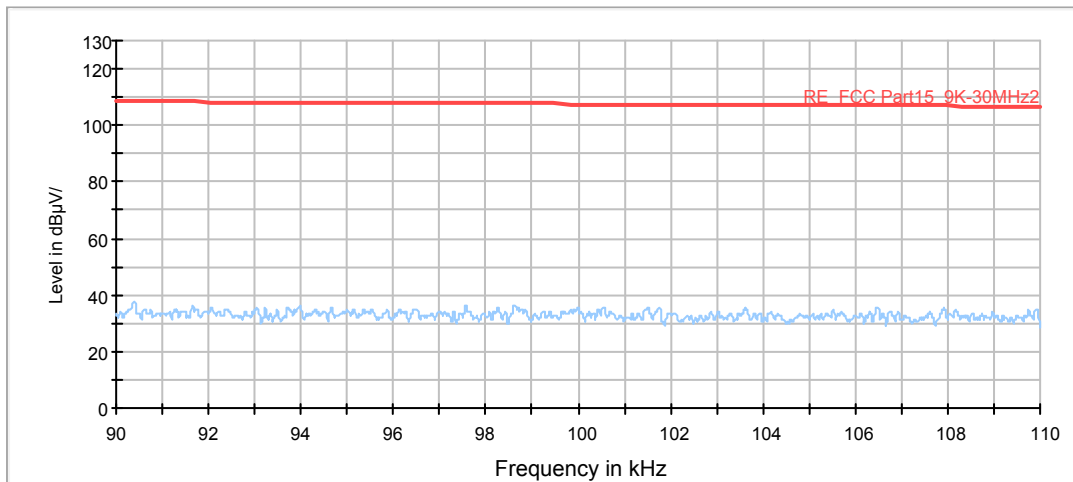
Continuous TX mode:

FCC RE 9K-90KHz AV



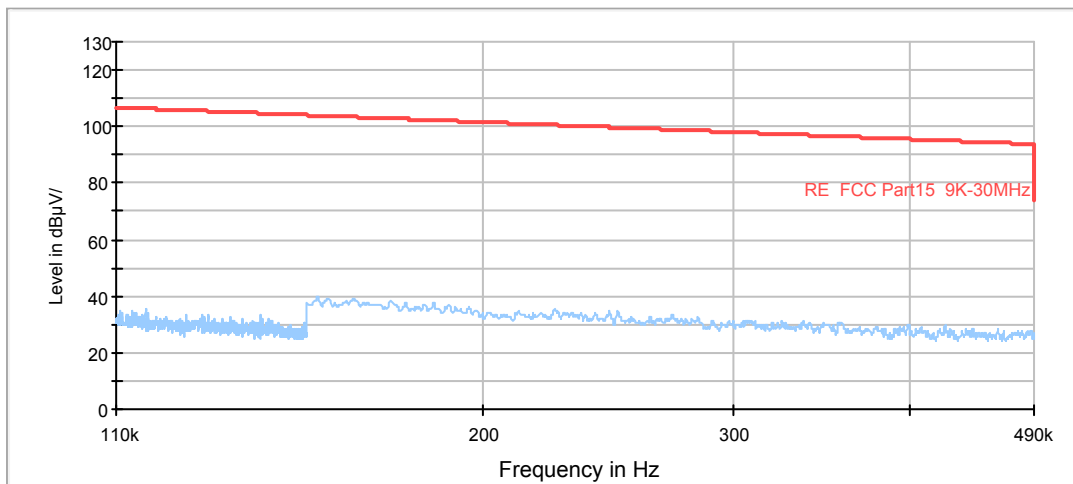
Radiates Emission from 9KHz to 90KHz

FCC RE 90K-110KHz QP



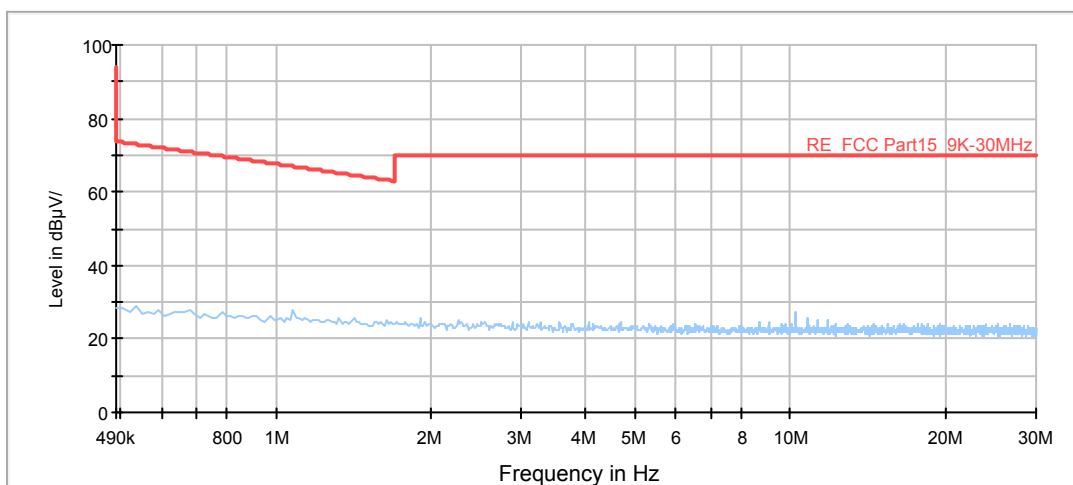
Radiates Emission from 90KHz to 110KHz

FCC RE 110K-490KHz AV



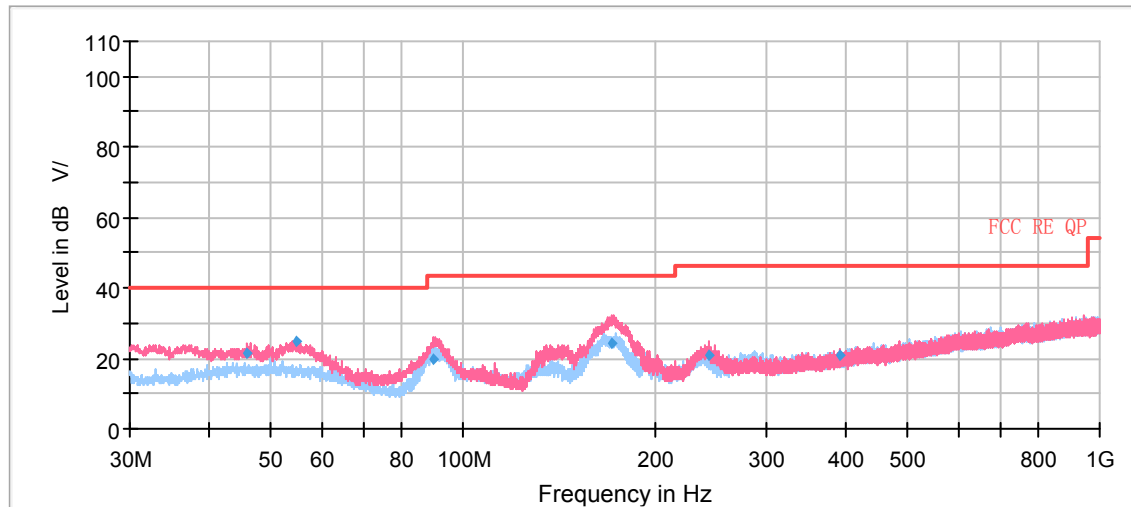
Radiates Emission from 110KHz to 490KHz

FCC RE 490K-30MHz QP



Radiates Emission from 490KHz to 30MHz

Wi-Fi 2.4G



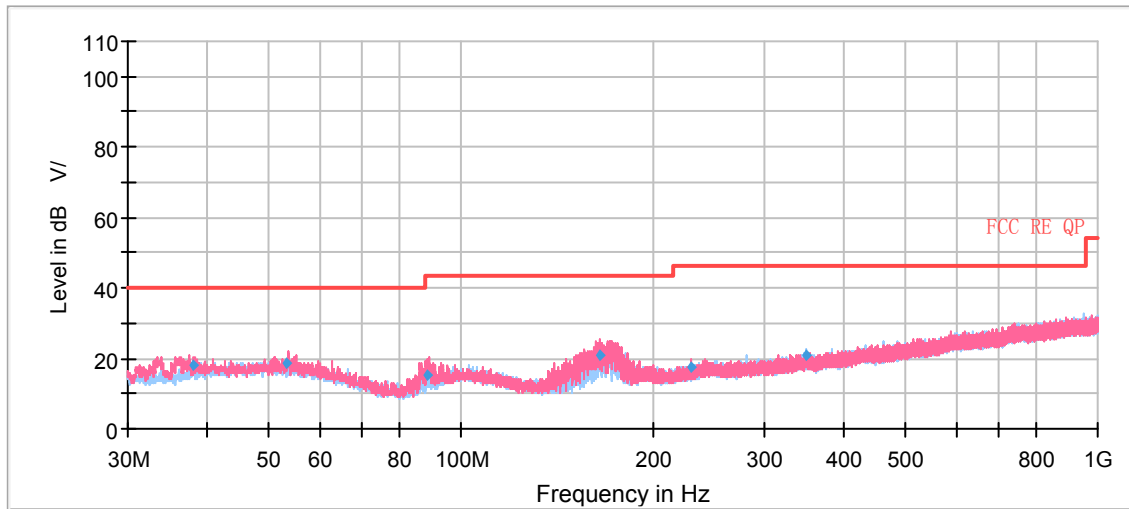
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
45.660333	21.61	100.0	V	0.0	20	18.39	40.00
54.781667	24.55	100.0	V	330.0	20	15.45	40.00
89.858333	19.61	100.0	V	111.0	16	23.89	43.50
171.440333	24.05	100.0	V	255.0	16	19.45	43.50
242.835000	20.77	100.0	V	330.0	20	25.23	46.00
390.065667	21.06	185.0	V	226.0	23	24.94	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

Bluetooth LE



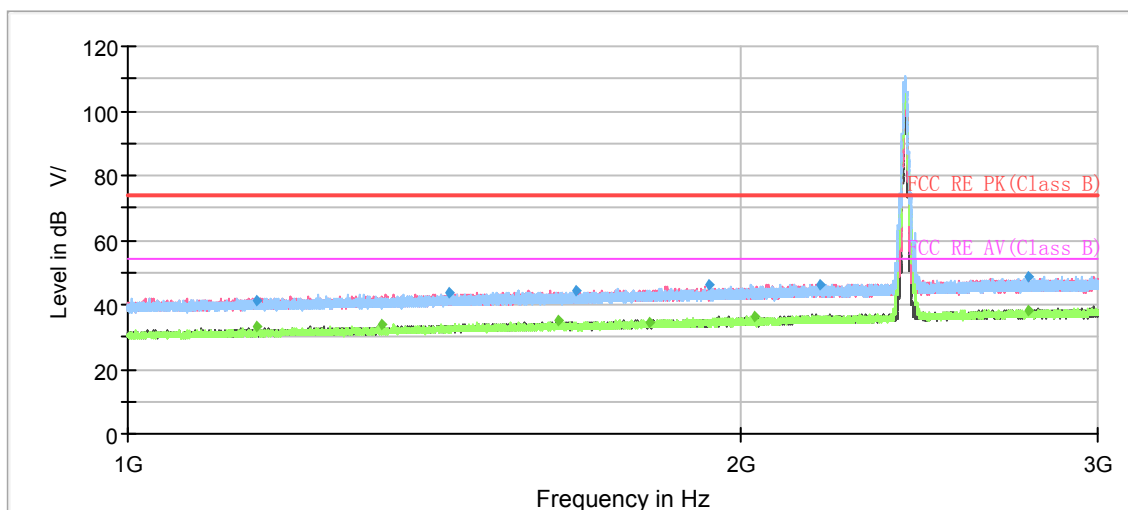
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
37.933667	18.04	100.0	V	93.0	19	21.96	40.00
53.355667	18.37	100.0	V	323.0	20	21.63	40.00
88.696000	15.24	100.0	V	115.0	16	28.26	43.50
165.566000	20.69	100.0	V	257.0	15	22.81	43.50
229.243000	17.68	109.0	V	215.0	19	28.32	46.00
348.785333	20.63	225.0	H	26.0	22	25.37	46.00

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

802.11b CH1

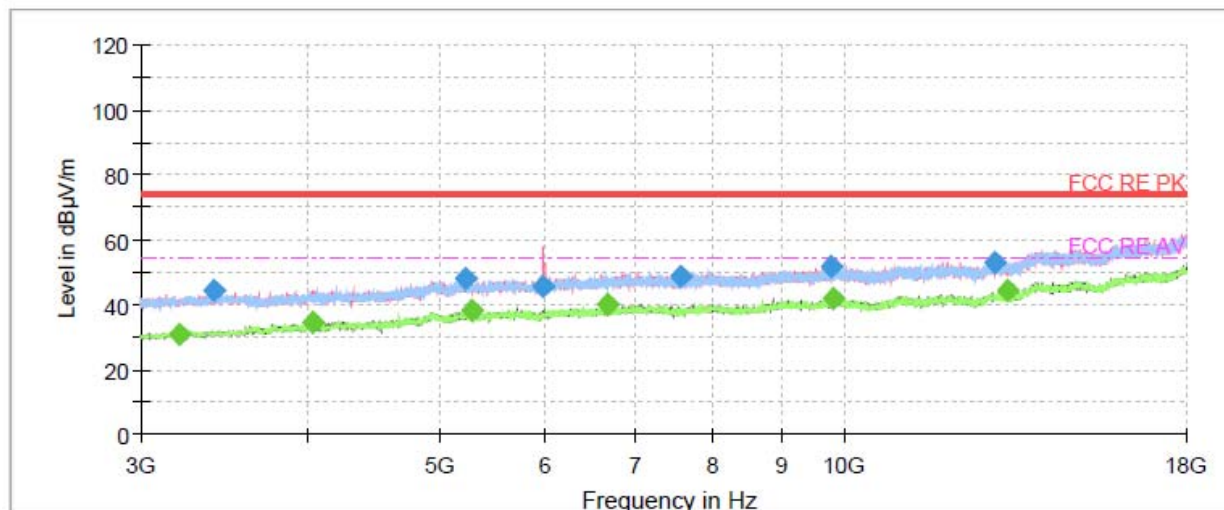


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1157.00	---	33.13	54.00	20.87	200.0	H	306.00	-8
1157.07	41.46	---	74.00	32.54	100.0	V	321.00	-8
1332.93	---	33.91	54.00	20.09	100.0	V	305.00	-7
1438.73	43.42	---	74.00	30.58	100.0	V	268.00	-6
1628.67	---	34.79	54.00	19.21	100.0	V	208.00	-5
1662.07	44.60	---	74.00	29.40	100.0	V	224.00	-5
1805.27	---	34.73	54.00	19.27	100.0	V	298.00	-4
1932.53	46.05	---	74.00	27.95	100.0	V	224.00	-3
2034.20	---	36.57	54.00	17.43	100.0	H	22.00	-3
2191.47	46.28	---	74.00	27.72	100.0	V	336.00	-2
2771.60	48.70	---	74.00	25.30	100.0	V	253.00	1
2771.93	---	38.32	54.00	15.68	100.0	H	136.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

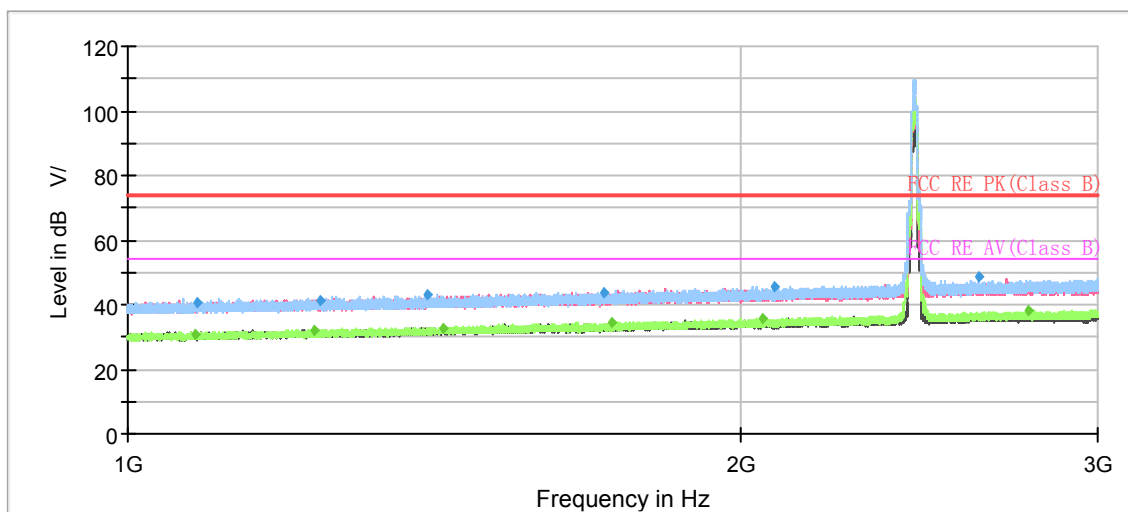


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3205.500000	---	30.80	54.00	23.20	200.0	V	199.0	-18.1
3400.500000	44.60	---	74.00	29.40	100.0	H	24.0	-17.4
4025.000000	---	34.75	54.00	19.25	200.0	H	326.0	-15.3
5244.000000	47.82	---	74.00	26.18	200.0	V	0.0	-11.1
5289.500000	---	37.97	54.00	16.03	200.0	H	236.0	-11.0
5985.000000	45.39	---	74.00	28.61	200.0	V	98.0	-10.1
6680.500000	---	39.99	54.00	14.01	100.0	V	226.0	-8.1
7563.000000	48.37	---	74.00	25.63	100.0	H	62.0	-7.6
9802.000000	51.39	---	74.00	22.61	100.0	V	264.0	-5.5
9829.500000	---	41.61	54.00	12.39	200.0	H	351.0	-5.5
12960.000000	53.04	---	74.00	20.96	200.0	V	199.0	-3.3
13241.500000	---	44.26	54.00	9.74	100.0	V	352.0	-2.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11b CH6

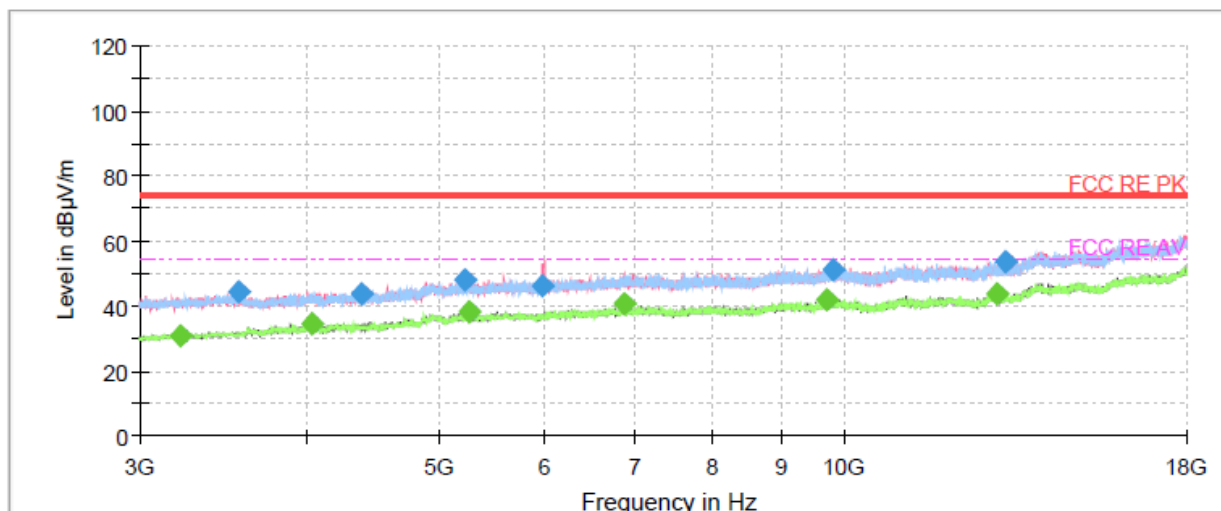


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1080.07	---	30.98	54.00	23.02	200.0	V	323.00	-8
1082.00	40.79	---	74.00	33.21	100.0	H	298.00	-8
1234.80	---	31.96	54.00	22.04	200.0	H	61.00	-7
1244.73	41.38	---	74.00	32.62	100.0	V	60.00	-7
1405.40	42.91	---	74.00	31.09	200.0	H	53.00	-6
1430.80	---	32.89	54.00	21.11	200.0	H	16.00	-6
1714.73	43.97	---	74.00	30.03	200.0	H	53.00	-5
1731.00	---	34.57	54.00	19.43	200.0	H	2.00	-4
2049.93	---	35.78	54.00	18.22	200.0	H	76.00	-3
2079.00	45.44	---	74.00	28.56	200.0	H	9.00	-3
2620.33	48.45	---	74.00	25.55	200.0	H	53.00	0
2776.00	---	38.25	54.00	15.75	200.0	H	91.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

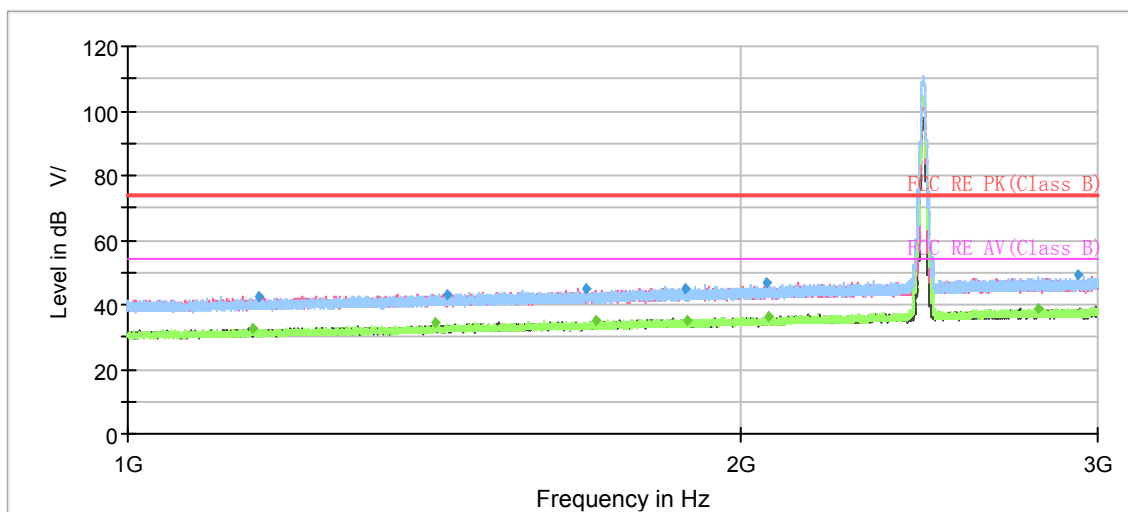


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.500000	---	30.47	54.00	23.53	100.0	V	225.0	-18.1
3552.000000	44.24	---	74.00	29.77	200.0	V	254.0	-17.0
4032.000000	---	34.40	54.00	19.60	100.0	H	0.0	-15.3
4388.000000	43.45	---	74.00	30.55	200.0	H	188.0	-14.4
5226.000000	47.71	---	74.00	26.29	100.0	H	48.0	-11.2
5266.500000	---	38.21	54.00	15.79	100.0	V	96.0	-11.0
5987.500000	45.90	---	74.00	28.10	100.0	V	212.0	-10.1
6875.500000	---	40.32	54.00	13.68	100.0	H	11.0	-7.8
9737.500000	---	41.68	54.00	12.32	200.0	V	60.0	-5.5
9815.000000	51.28	---	74.00	22.72	100.0	H	200.0	-5.5
13016.500000	---	43.53	54.00	10.47	100.0	V	326.0	-3.1
13215.500000	53.51	---	74.00	20.49	200.0	V	47.0	-2.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11b CH11

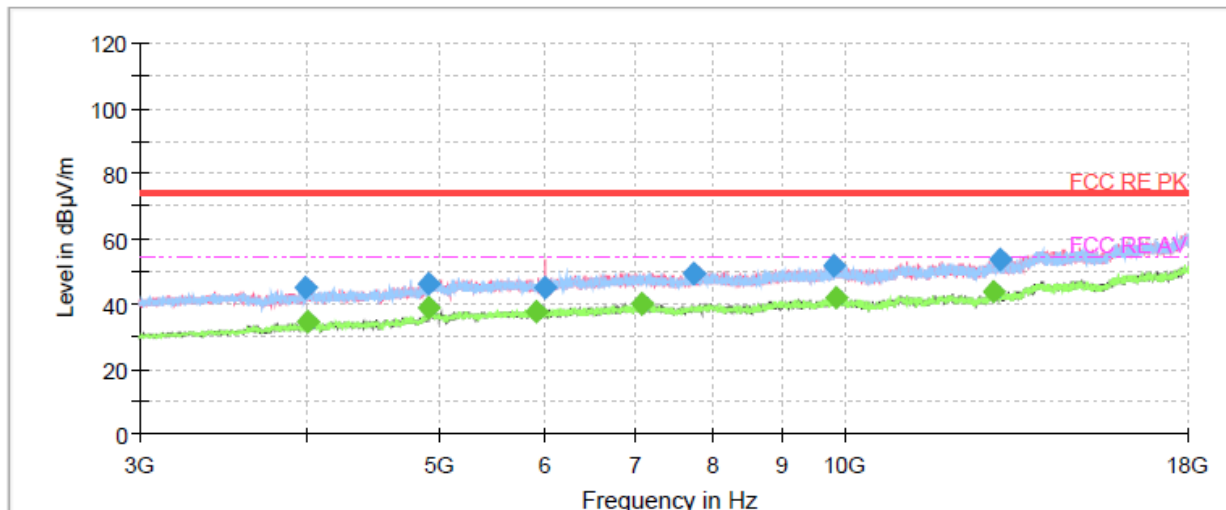


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1152.67	---	32.48	54.00	21.52	100.0	V	359.00	-8
1159.60	42.59	---	74.00	31.41	200.0	V	61.00	-8
1417.00	---	34.19	54.00	19.81	100.0	V	277.00	-6
1436.40	43.37	---	74.00	30.63	100.0	V	307.00	-6
1681.93	44.99	---	74.00	29.01	100.0	H	1.00	-5
1698.60	---	34.96	54.00	19.04	100.0	V	292.00	-5
1881.00	44.87	---	74.00	29.13	100.0	H	9.00	-4
1882.87	---	34.84	54.00	19.16	100.0	V	67.00	-4
2060.80	46.65	---	74.00	27.35	100.0	H	112.00	-3
2066.00	---	36.07	54.00	17.93	100.0	V	359.00	-3
2801.53	---	38.71	54.00	15.29	100.0	V	246.00	1
2932.53	48.98	---	74.00	25.02	200.0	H	120.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

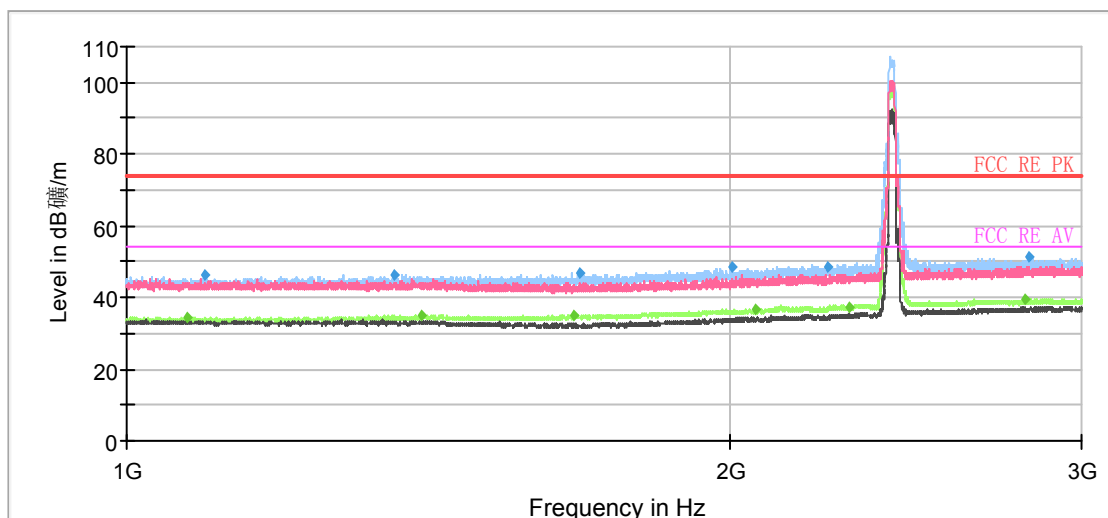


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3983.500000	44.71	---	74.00	29.29	100.0	H	320.0	-15.5
4003.000000	---	34.19	54.00	19.81	100.0	V	186.0	-15.4
4923.500000	46.31	---	74.00	27.69	100.0	V	121.0	-11.8
4924.000000	---	38.58	54.00	15.42	100.0	H	281.0	-11.8
5902.000000	---	37.25	54.00	16.75	200.0	V	10.0	-10.4
5992.500000	45.10	---	74.00	28.90	100.0	V	0.0	-10.0
7089.500000	---	39.90	54.00	14.10	200.0	H	13.0	-7.6
7746.000000	49.43	---	74.00	24.57	100.0	H	0.0	-7.5
9831.500000	51.57	---	74.00	22.43	200.0	V	48.0	-5.5
9877.500000	---	41.75	54.00	12.25	200.0	V	293.0	-5.4
12938.500000	---	43.95	54.00	10.05	100.0	H	320.0	-3.3
13081.000000	53.31	---	74.00	20.69	100.0	H	150.0	-2.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH1

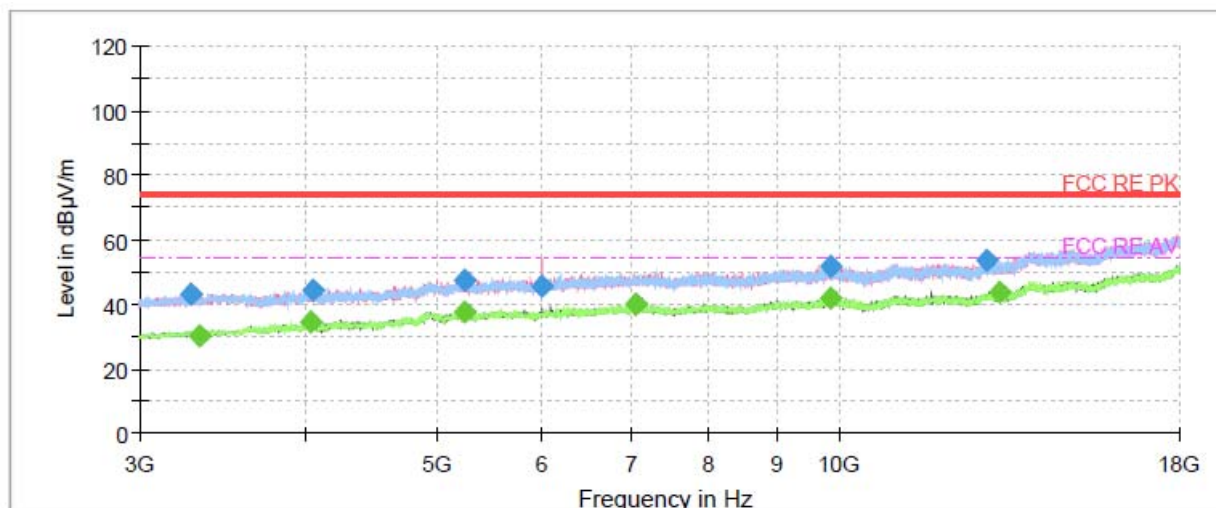


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1071.00	---	34.55	54.00	19.45	100.0	H	11.00	-9
1095.25	46.18	---	74.00	27.82	100.0	H	1.00	-9
1360.25	46.03	---	74.00	27.97	200.0	H	0.00	-7
1403.25	---	34.86	54.00	19.14	100.0	H	34.00	-7
1674.25	---	35.16	54.00	18.84	200.0	H	297.00	-6
1685.25	46.83	---	74.00	27.17	100.0	H	43.00	-6
2006.75	48.79	---	74.00	25.21	200.0	H	0.00	-5
2060.25	---	36.60	54.00	17.40	100.0	H	15.00	-5
2241.25	48.59	---	74.00	25.41	100.0	H	154.00	-4
2296.75	---	37.42	54.00	16.58	100.0	H	11.00	-4
2812.25	---	39.61	54.00	14.39	100.0	H	69.00	-3
2820.50	51.24	---	74.00	22.76	200.0	H	354.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

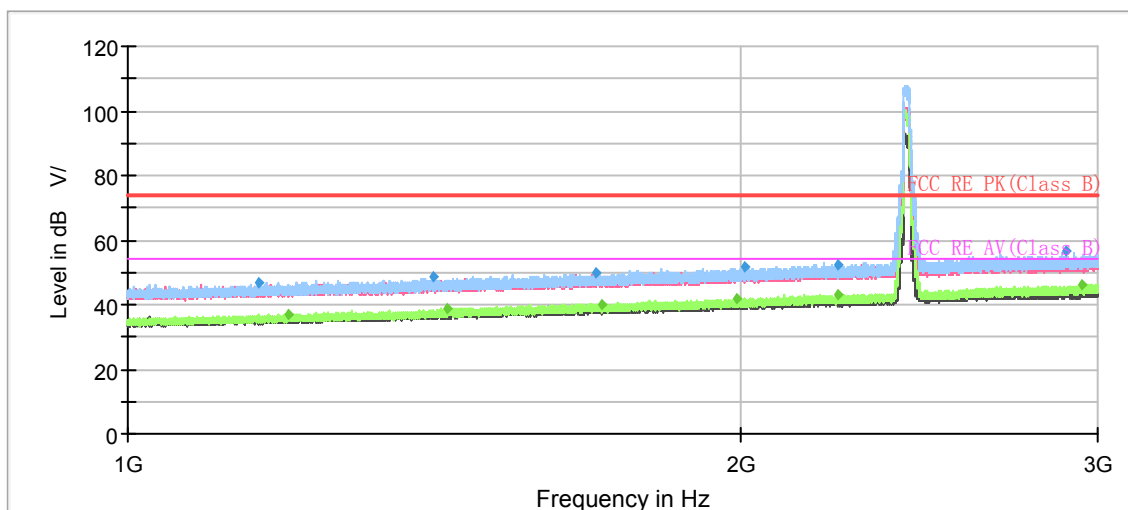


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3277.500000	42.84	---	74.00	31.16	100.0	V	337.0	-17.8
3330.500000	---	30.23	54.00	23.77	100.0	V	300.0	-17.7
4028.000000	---	34.32	54.00	19.68	100.0	V	337.0	-15.3
4040.500000	44.49	---	74.00	29.52	200.0	H	261.0	-15.3
5249.000000	47.48	---	74.00	26.52	100.0	V	312.0	-11.1
5255.000000	---	37.55	54.00	16.45	100.0	V	287.0	-11.1
5994.000000	45.79	---	74.00	28.21	200.0	V	226.0	-10.0
7064.000000	---	40.00	54.00	14.00	200.0	H	248.0	-7.6
9880.000000	---	41.87	54.00	12.13	100.0	H	62.0	-5.4
9885.500000	51.56	---	74.00	22.44	200.0	H	359.0	-5.4
12908.500000	53.53	---	74.00	20.47	200.0	H	359.0	-3.4
13224.000000	---	43.65	54.00	10.35	200.0	V	200.0	-2.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH2

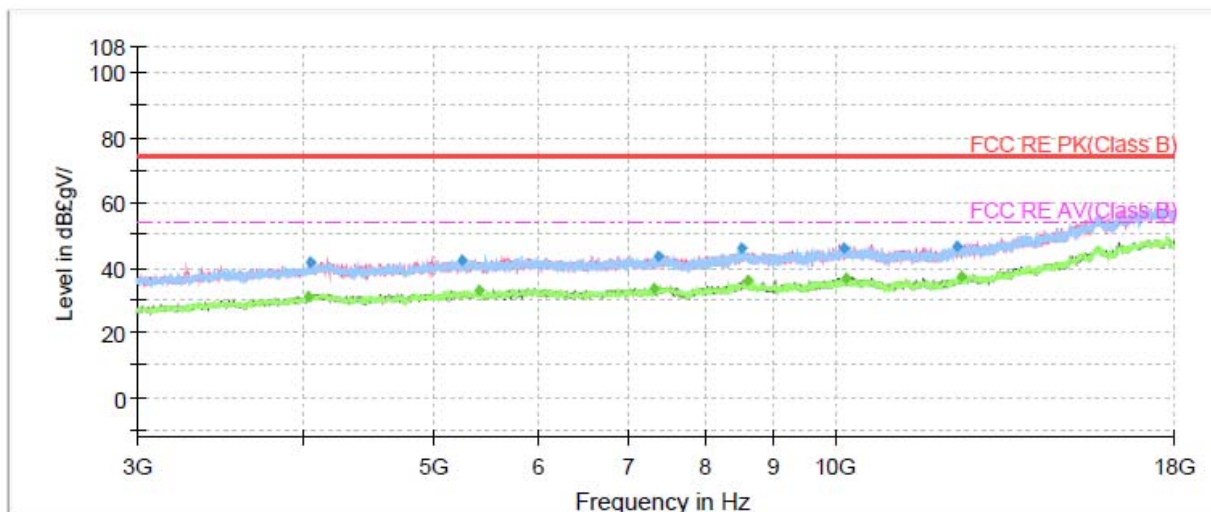


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1161.07	47.05	---	74.00	26.95	200.0	H	296.00	-8
1199.60	---	36.84	54.00	17.16	200.0	H	263.00	-8
1411.93	48.92	---	74.00	25.08	200.0	H	320.00	-6
1437.07	---	38.64	54.00	15.36	200.0	H	254.00	-6
1699.07	49.98	---	74.00	24.02	200.0	H	336.00	-5
1711.47	---	40.19	54.00	13.81	200.0	H	336.00	-5
1995.00	---	42.08	54.00	11.92	200.0	H	279.00	-3
2011.73	51.86	---	74.00	22.14	200.0	H	343.00	-3
2232.87	---	42.87	54.00	11.13	200.0	H	263.00	-2
2236.07	52.27	---	74.00	21.73	200.0	H	351.00	-2
2894.67	56.57	---	74.00	17.43	200.0	H	304.00	1
2944.67	---	46.20	54.00	7.80	200.0	H	304.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

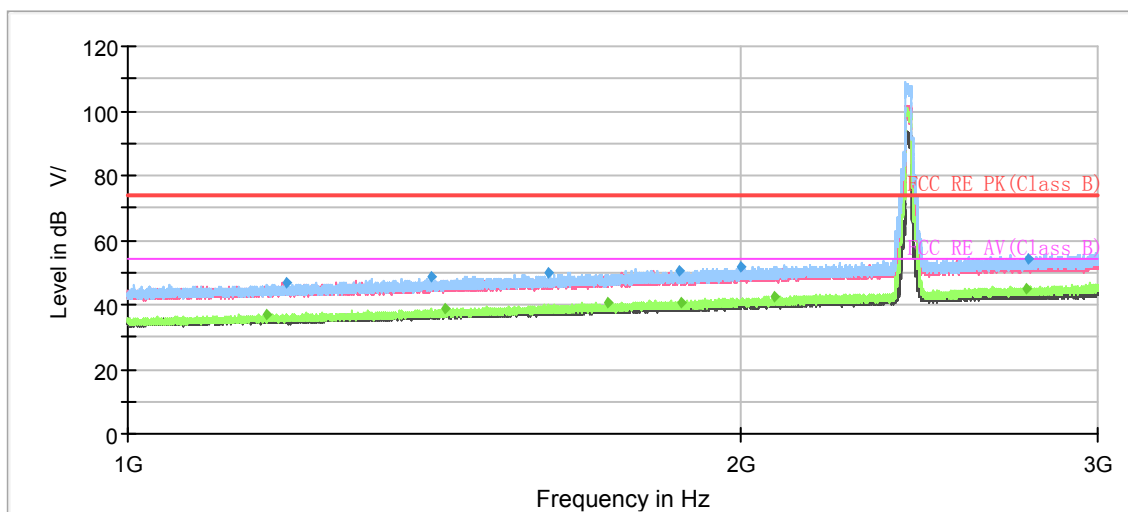


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4034.50	---	31.27	54.00	22.73	200.0	H	138.00	-3
4043.00	41.37	---	74.00	32.63	100.0	V	0.00	-3
5245.50	42.37	---	74.00	31.63	200.0	H	114.00	-1
5420.50	---	33.16	54.00	20.84	200.0	V	110.00	-1
7317.00	---	33.54	54.00	20.46	100.0	H	188.00	1
7373.50	43.43	---	74.00	30.57	200.0	V	0.00	1
8527.50	45.60	---	74.00	28.40	200.0	V	0.00	4
8618.00	---	35.95	54.00	18.05	200.0	H	48.00	4
10175.00	45.57	---	74.00	28.43	200.0	V	199.00	5
10218.50	---	36.64	54.00	17.36	200.0	V	304.00	5
12351.00	46.54	---	74.00	27.46	100.0	V	72.00	7
12427.50	---	37.02	54.00	16.98	200.0	H	209.00	7

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH3

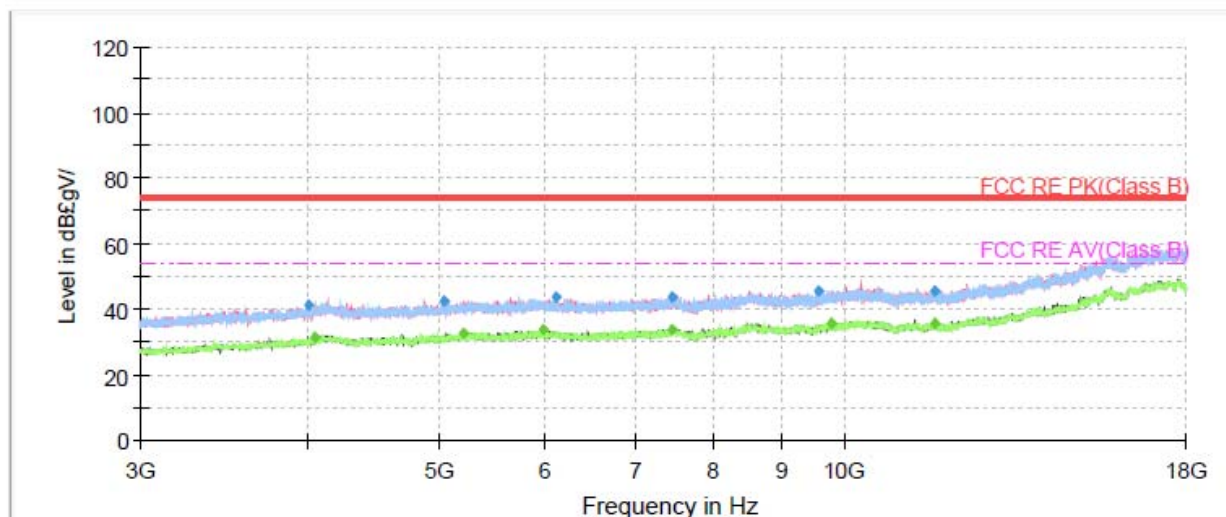


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1171.07	---	37.17	54.00	16.83	200.0	H	328.00	-8
1197.80	46.76	---	74.00	27.24	200.0	H	321.00	-8
1409.20	48.35	---	74.00	25.65	200.0	H	0.00	-6
1431.27	---	38.52	54.00	15.48	200.0	H	349.00	-6
1610.13	49.73	---	74.00	24.27	200.0	H	313.00	-5
1723.00	---	40.83	54.00	13.17	200.0	H	275.00	-4
1866.27	50.33	---	74.00	23.67	200.0	H	298.00	-4
1872.53	---	40.91	54.00	13.09	200.0	H	357.00	-4
2002.40	51.75	---	74.00	22.25	200.0	H	328.00	-3
2080.07	---	42.40	54.00	11.60	200.0	H	328.00	-3
2768.73	---	44.85	54.00	9.15	200.0	H	290.00	1
2772.40	54.34	---	74.00	19.66	200.0	H	342.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

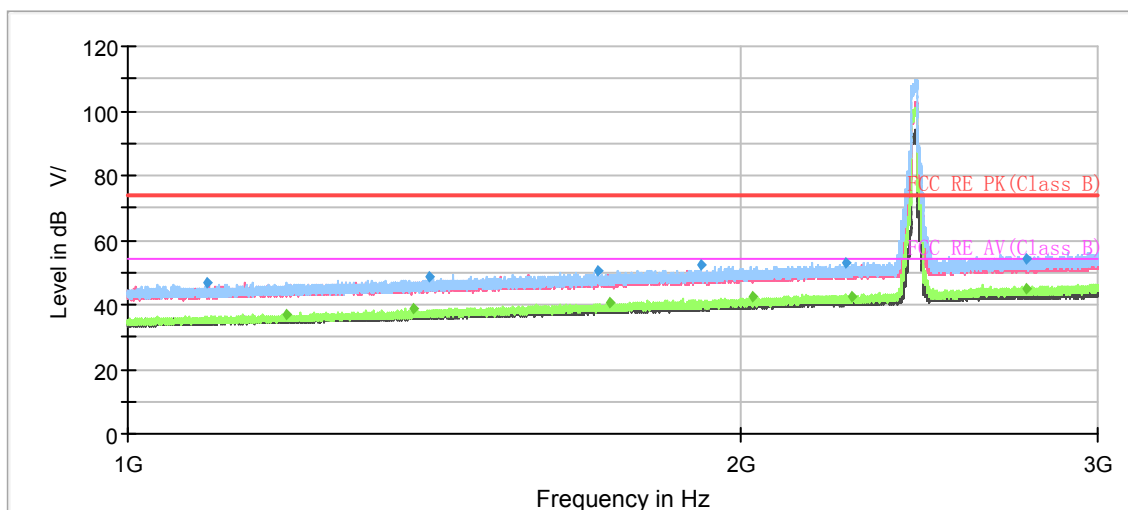


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3998.00	40.94	---	74.00	33.06	100.0	V	90.00	-4
4037.00	---	31.27	54.00	22.73	200.0	H	226.00	-3
5045.00	42.74	---	74.00	31.26	100.0	H	69.00	-1
5210.50	---	32.77	54.00	21.23	200.0	V	224.00	-1
5971.00	---	33.79	54.00	20.21	200.0	V	190.00	0
6107.00	43.52	---	74.00	30.48	100.0	V	305.00	0
7464.00	43.47	---	74.00	30.53	200.0	H	343.00	1
7467.00	---	34.14	54.00	19.86	200.0	H	266.00	1
9596.00	45.56	---	74.00	28.44	200.0	V	80.00	4
9785.00	---	35.83	54.00	18.17	200.0	H	82.00	4
11681.00	45.44	---	74.00	28.56	200.0	V	255.00	6
11693.00	---	35.66	54.00	18.34	100.0	V	73.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH6

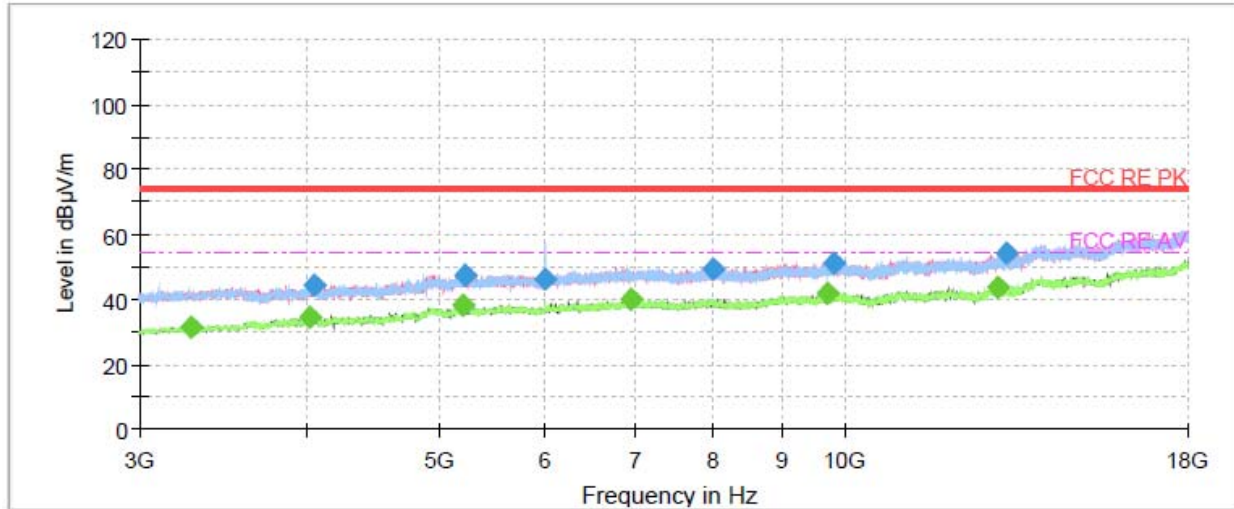


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1093.93	46.76	---	74.00	27.24	200.0	H	340.00	-8
1196.67	---	36.90	54.00	17.10	200.0	H	0.00	-8
1380.47	---	38.87	54.00	15.13	200.0	H	0.00	-6
1407.20	48.41	---	74.00	25.59	200.0	H	324.00	-6
1704.60	50.17	---	74.00	23.83	200.0	H	293.00	-5
1726.00	---	40.35	54.00	13.65	200.0	H	293.00	-4
1913.60	52.52	---	74.00	21.48	200.0	H	309.00	-3
2031.27	---	42.67	54.00	11.33	200.0	H	332.00	-3
2256.93	52.86	---	74.00	21.14	200.0	H	347.00	-2
2268.33	---	42.49	54.00	11.51	200.0	H	230.00	-2
2764.00	---	45.14	54.00	8.86	200.0	H	347.00	1
2765.07	54.17	---	74.00	19.83	200.0	H	293.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

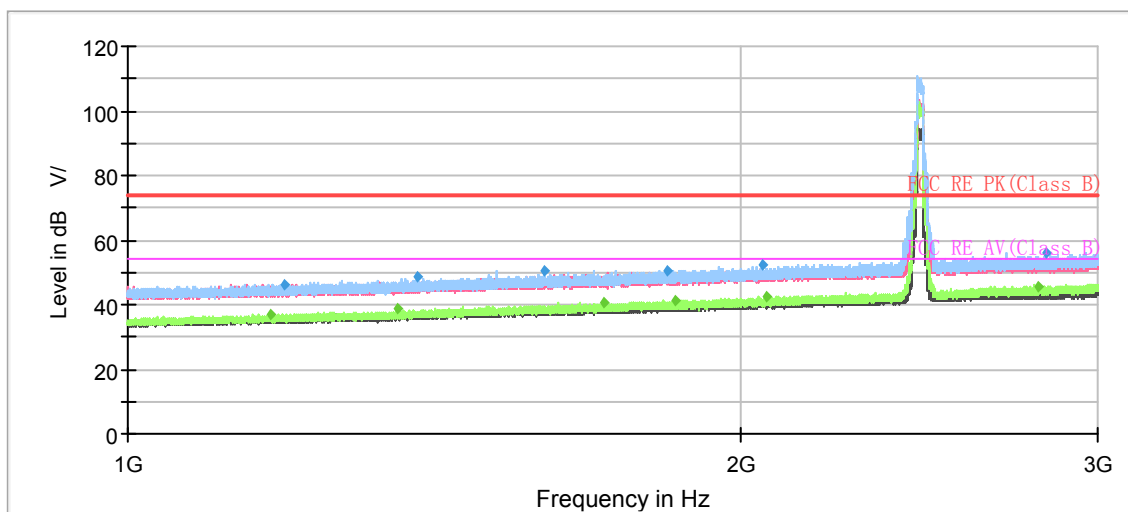


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3283.000000	---	31.13	54.00	22.87	200.0	V	22.0	-17.8
4013.000000	---	34.59	54.00	19.41	200.0	V	135.0	-15.3
4042.500000	44.51	---	74.00	29.49	100.0	V	302.0	-15.2
5220.500000	---	37.86	54.00	16.14	200.0	V	160.0	-11.2
5242.000000	47.40	---	74.00	26.60	100.0	V	137.0	-11.1
5992.000000	46.06	---	74.00	27.94	100.0	V	314.0	-10.0
6950.500000	---	39.89	54.00	14.11	100.0	H	0.0	-7.8
8002.500000	49.38	---	74.00	24.62	200.0	V	135.0	-7.5
9734.000000	---	41.57	54.00	12.43	100.0	V	0.0	-5.5
9826.000000	51.33	---	74.00	22.67	100.0	H	136.0	-5.5
13029.000000	---	43.70	54.00	10.30	100.0	V	150.0	-3.1
13213.000000	54.34	---	74.00	19.66	100.0	V	352.0	-2.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH9

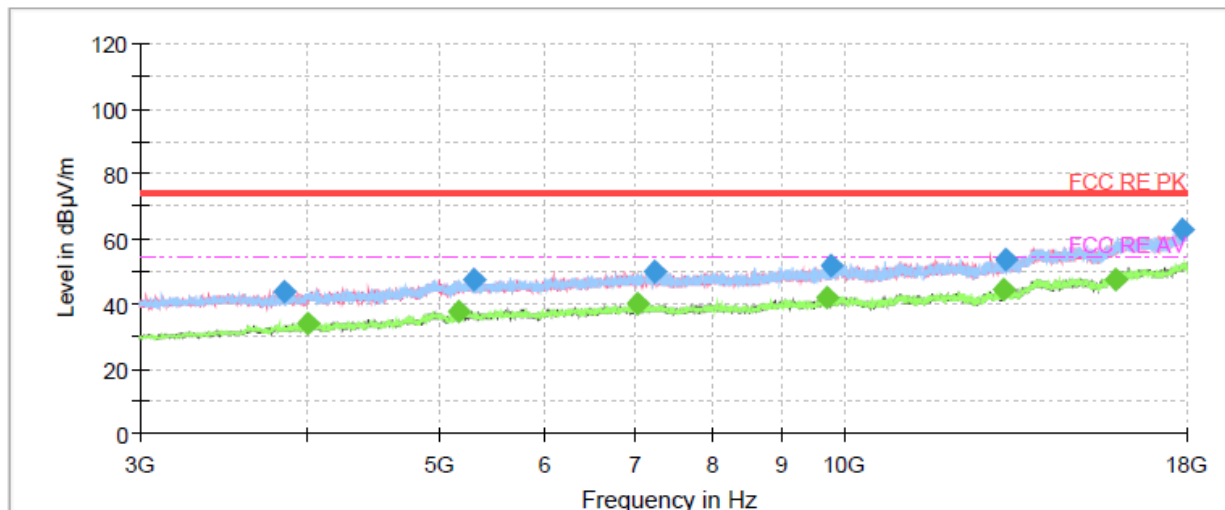


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1174.87	---	36.96	54.00	17.04	200.0	H	285.00	-8
1193.47	46.34	---	74.00	27.66	200.0	H	222.00	-8
1356.67	---	38.63	54.00	15.37	200.0	H	193.00	-7
1388.53	48.41	---	74.00	25.59	200.0	H	347.00	-6
1604.00	50.57	---	74.00	23.43	200.0	H	230.00	-5
1713.87	---	40.39	54.00	13.61	200.0	H	0.00	-5
1842.53	50.44	---	74.00	23.56	200.0	H	339.00	-4
1861.13	---	40.93	54.00	13.07	200.0	H	324.00	-4
2053.87	52.35	---	74.00	21.65	200.0	H	339.00	-3
2063.60	---	42.21	54.00	11.79	200.0	H	347.00	-3
2804.73	---	45.84	54.00	8.16	200.0	H	339.00	1
2832.73	56.09	---	74.00	17.91	200.0	H	238.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

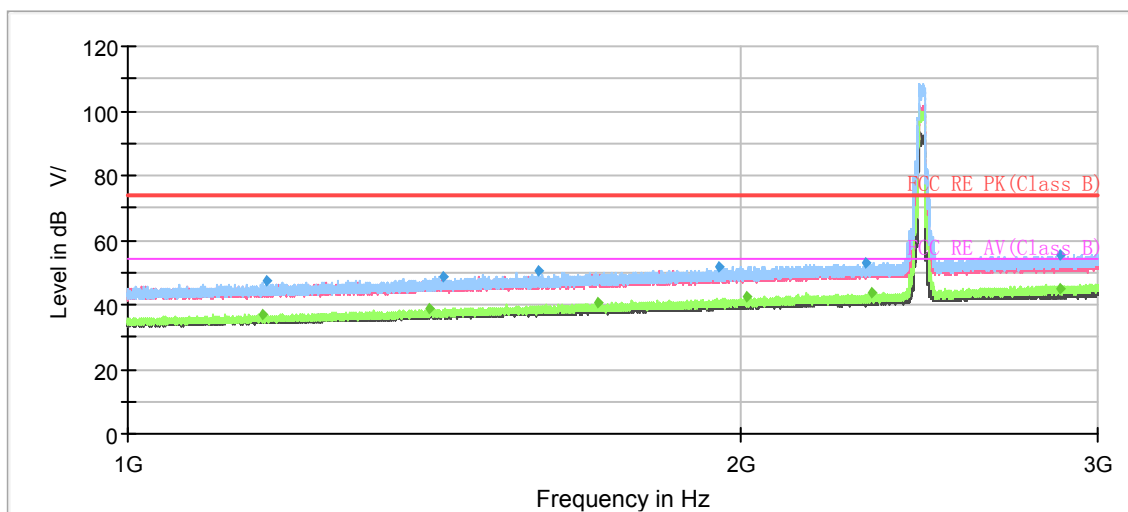


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3840.500000	43.60	---	74.00	30.40	200.0	V	1.0	-16.0
4003.000000	---	34.12	54.00	19.88	200.0	V	0.0	-15.4
5185.500000	---	37.56	54.00	16.44	100.0	H	184.0	-11.6
5309.500000	47.37	---	74.00	26.63	200.0	H	0.0	-11.1
7032.000000	---	39.73	54.00	14.27	200.0	H	0.0	-7.7
7247.000000	49.60	---	74.00	24.40	200.0	V	0.0	-7.2
9729.500000	---	42.06	54.00	11.94	200.0	V	0.0	-5.5
9791.500000	51.58	---	74.00	22.42	200.0	V	0.0	-5.5
13174.000000	---	44.21	54.00	9.79	200.0	H	28.0	-2.4
13225.500000	53.50	---	74.00	20.50	100.0	H	274.0	-2.3
15929.000000	---	47.12	54.00	6.88	200.0	V	356.0	3.2
17846.000000	62.69	---	74.00	11.31	200.0	V	331.0	5.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH10

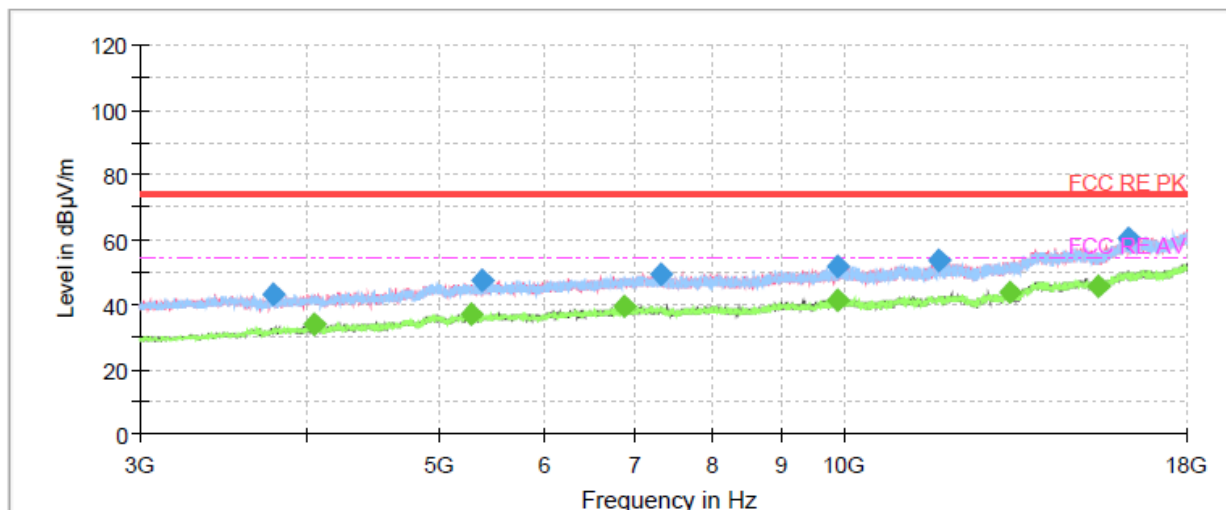


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1165.00	---	37.08	54.00	16.92	200.0	H	223.00	-8
1170.00	47.26	---	74.00	26.74	200.0	H	356.00	-8
1406.20	---	38.87	54.00	15.13	200.0	H	348.00	-6
1428.73	48.67	---	74.00	25.33	200.0	H	309.00	-6
1593.00	50.25	---	74.00	23.75	200.0	H	206.00	-5
1704.07	---	40.54	54.00	13.46	200.0	H	278.00	-5
1951.40	51.70	---	74.00	22.30	200.0	H	271.00	-3
2017.07	---	42.24	54.00	11.76	200.0	H	197.00	-3
2305.53	52.98	---	74.00	21.02	200.0	H	332.00	-1
2321.40	---	43.56	54.00	10.44	200.0	H	316.00	-1
2873.60	55.51	---	74.00	18.49	200.0	H	348.00	1
2874.73	---	45.17	54.00	8.83	200.0	H	278.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

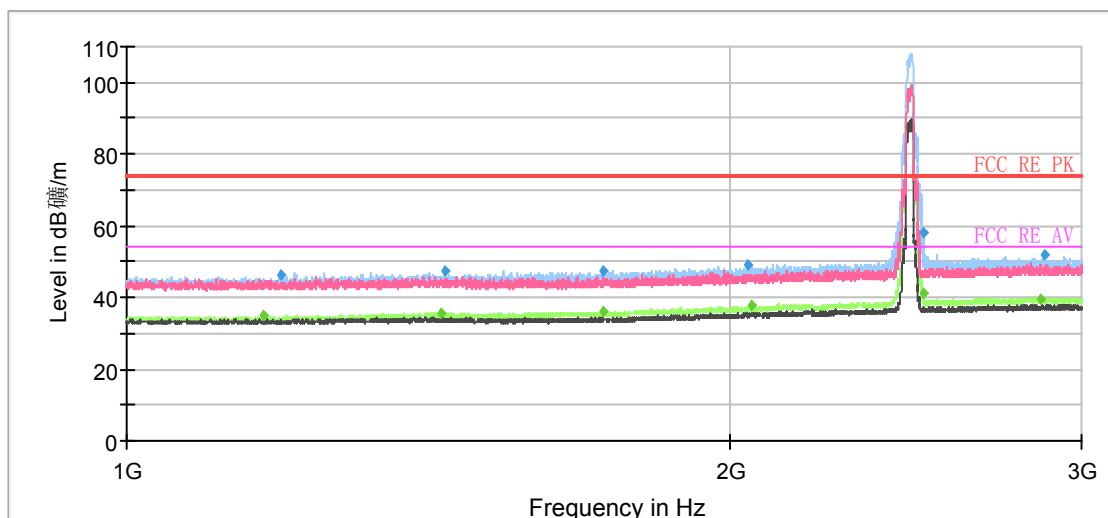


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3767.000000	43.01	---	74.00	30.99	100.0	H	355.0	-16.2
4038.500000	---	33.72	54.00	20.28	200.0	H	212.0	-15.3
5292.000000	---	37.08	54.00	16.92	100.0	V	56.0	-11.0
5387.000000	47.26	---	74.00	26.74	200.0	V	0.0	-10.9
6872.000000	---	39.48	54.00	14.52	100.0	V	56.0	-7.8
7328.000000	49.13	---	74.00	24.87	100.0	V	118.0	-7.2
9889.000000	---	41.54	54.00	12.46	200.0	V	136.0	-5.4
9904.500000	51.95	---	74.00	22.05	200.0	V	343.0	-5.3
11789.000000	53.29	---	74.00	20.71	100.0	V	30.0	-3.7
13286.000000	---	43.59	54.00	10.41	100.0	V	276.0	-2.1
15484.500000	---	45.48	54.00	8.52	100.0	V	0.0	1.8
16306.500000	60.12	---	74.00	13.88	100.0	H	292.0	4.8

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11g CH11

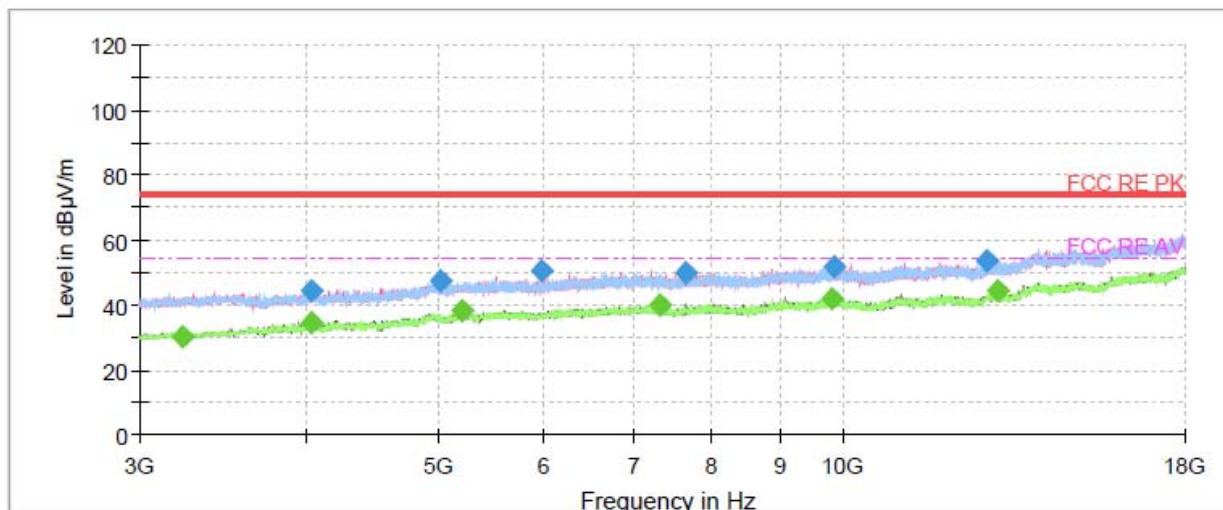


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1170.50	---	34.76	54.00	19.24	200.0	H	12.00	-9
1195.00	46.39	---	74.00	27.61	200.0	H	12.00	-9
1436.00	---	35.59	54.00	18.41	100.0	H	114.00	-7
1441.75	47.49	---	74.00	26.51	100.0	H	43.00	-7
1729.25	---	35.84	54.00	18.16	100.0	H	52.00	-6
1731.25	47.47	---	74.00	26.53	200.0	H	2.00	-6
2041.25	48.94	---	74.00	25.06	200.0	H	16.00	-5
2052.50	---	37.67	54.00	16.33	100.0	H	227.00	-5
2499.50	---	41.21	54.00	12.79	200.0	H	200.00	-4
2500.00	58.35	---	74.00	15.65	200.0	H	200.00	-4
2860.25	---	39.31	54.00	14.69	200.0	H	21.00	-3
2872.50	52.14	---	74.00	21.86	100.0	H	139.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

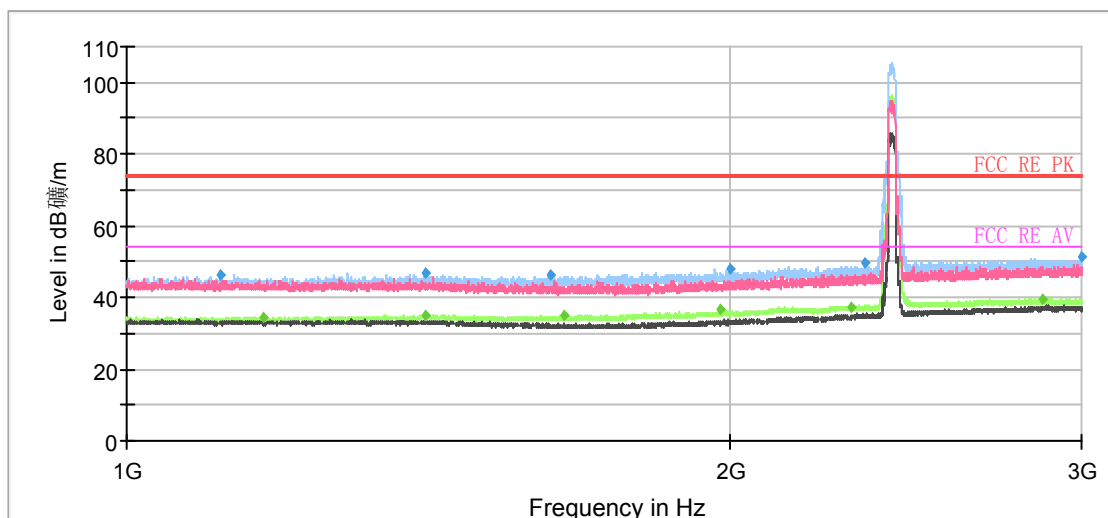


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3231.000000	---	30.41	54.00	23.59	100.0	V	121.0	-18.0
4024.000000	44.24	---	74.00	29.76	200.0	H	324.0	-15.3
4035.500000	---	34.65	54.00	19.35	200.0	H	224.0	-15.3
5035.500000	47.64	---	74.00	26.36	100.0	V	338.0	-11.7
5219.000000	---	38.09	54.00	15.91	200.0	H	27.0	-11.2
5974.500000	50.35	---	74.00	23.65	100.0	V	108.0	-10.2
7321.000000	---	39.99	54.00	14.01	100.0	V	237.0	-7.1
7654.500000	49.81	---	74.00	24.19	100.0	V	262.0	-7.5
9838.500000	---	41.78	54.00	12.22	200.0	H	300.0	-5.5
9880.500000	51.50	---	74.00	22.50	200.0	H	13.0	-5.4
12840.000000	53.26	---	74.00	20.74	100.0	V	81.0	-3.5
13082.000000	---	44.08	54.00	9.92	200.0	H	353.0	-2.9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH1

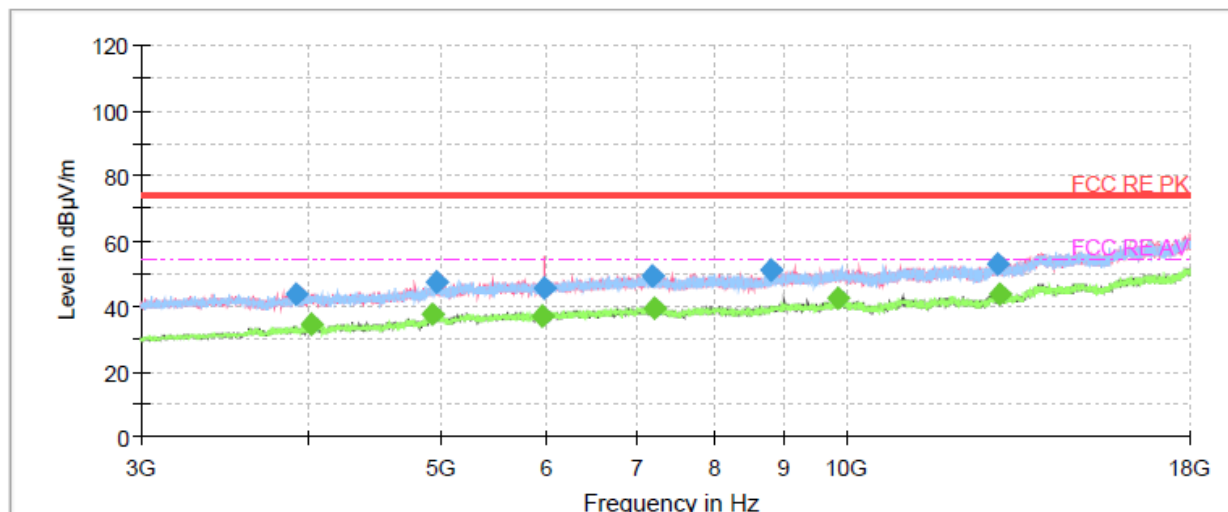


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1113.50	46.08	---	74.00	27.92	100.0	H	5.00	-9
1170.00	---	34.64	54.00	19.36	200.0	H	34.00	-9
1408.75	46.91	---	74.00	27.09	200.0	H	60.00	-7
1411.00	---	35.23	54.00	18.77	200.0	H	0.00	-7
1629.00	46.14	---	74.00	27.86	100.0	H	5.00	-6
1652.50	---	35.08	54.00	18.92	100.0	H	1.00	-6
1979.75	---	36.53	54.00	17.47	100.0	H	116.00	-5
2002.75	47.95	---	74.00	26.05	200.0	H	88.00	-5
2301.75	---	37.31	54.00	16.69	200.0	H	5.00	-4
2337.25	49.38	---	74.00	24.62	100.0	H	15.00	-4
2867.00	---	39.61	54.00	14.39	200.0	H	20.00	-3
2997.50	51.26	---	74.00	22.74	200.0	H	4.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

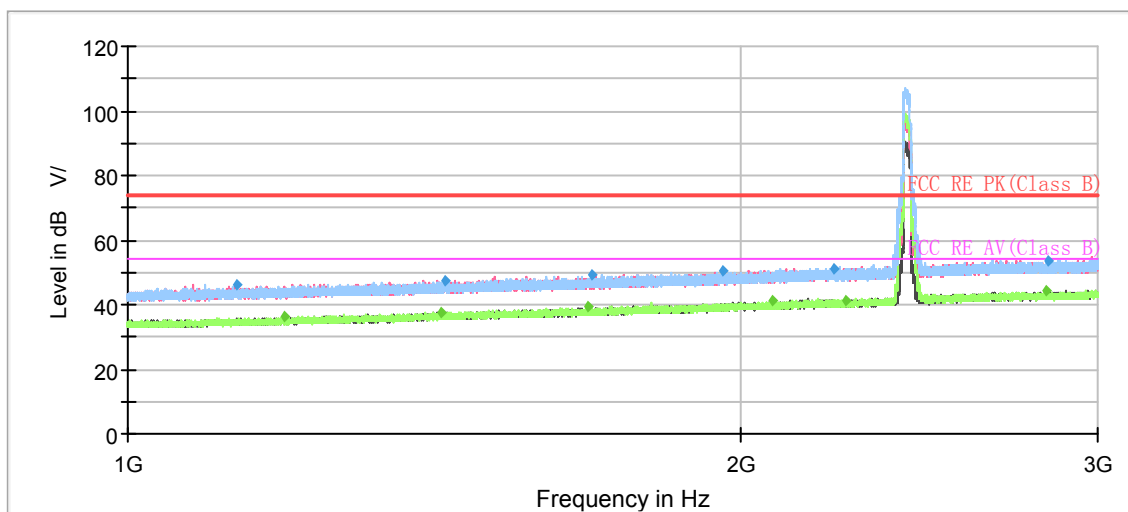


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3907.000000	43.62	---	74.00	30.38	200.0	H	235.0	-15.9
4013.000000	---	34.63	54.00	19.37	200.0	V	59.0	-15.3
4942.000000	---	37.74	54.00	16.26	200.0	H	197.0	-11.7
4965.500000	47.58	---	74.00	26.42	100.0	V	239.0	-11.5
5950.500000	---	37.01	54.00	16.99	200.0	V	47.0	-10.5
5981.500000	45.84	---	74.00	28.16	200.0	V	122.0	-10.2
7187.500000	48.98	---	74.00	25.02	200.0	V	212.0	-7.3
7212.000000	---	39.66	54.00	14.34	100.0	H	0.0	-7.2
8793.000000	51.09	---	74.00	22.91	100.0	H	335.0	-7.1
9873.500000	---	42.31	54.00	11.69	100.0	H	112.0	-5.4
12964.500000	53.18	---	74.00	20.82	200.0	V	0.0	-3.3
13008.000000	---	43.58	54.00	10.42	100.0	H	99.0	-3.1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH2

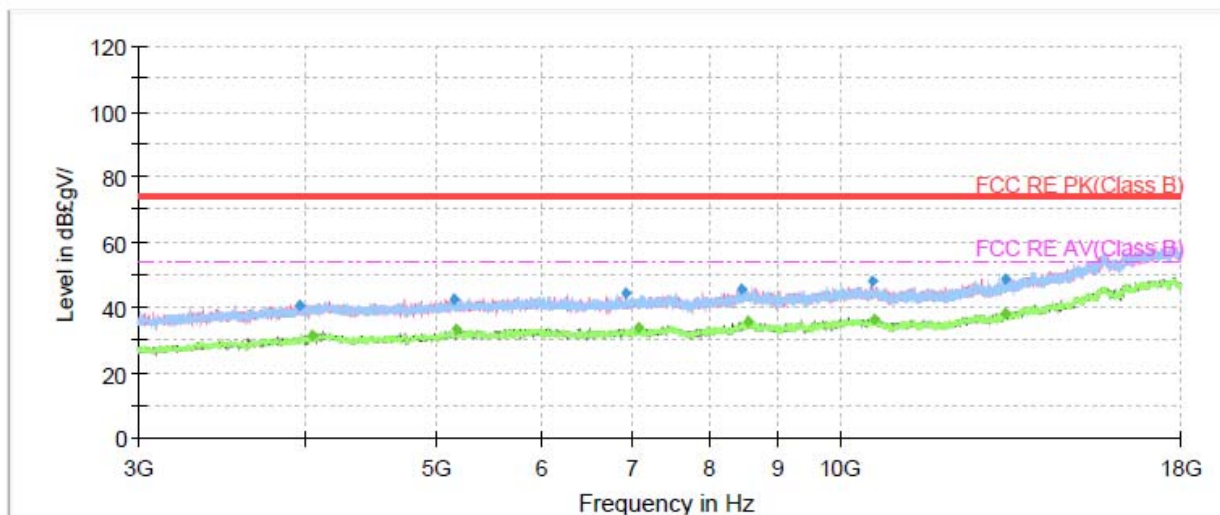


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1132.40	46.19	---	74.00	27.81	200.0	V	17.00	-8
1193.53	---	36.28	54.00	17.72	200.0	V	115.00	-8
1424.67	---	37.64	54.00	16.36	200.0	H	322.00	-6
1431.60	47.40	---	74.00	26.60	100.0	V	168.00	-6
1683.00	---	39.41	54.00	14.59	200.0	V	0.00	-5
1692.20	49.13	---	74.00	24.87	200.0	H	162.00	-5
1961.27	50.52	---	74.00	23.48	100.0	H	103.00	-3
2077.47	---	41.16	54.00	12.84	100.0	H	162.00	-3
2225.20	50.98	---	74.00	23.02	100.0	V	335.00	-2
2257.20	---	41.41	54.00	12.59	100.0	V	184.00	-2
2828.80	---	44.06	54.00	9.94	100.0	V	260.00	1
2837.00	53.31	---	74.00	20.69	200.0	H	351.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

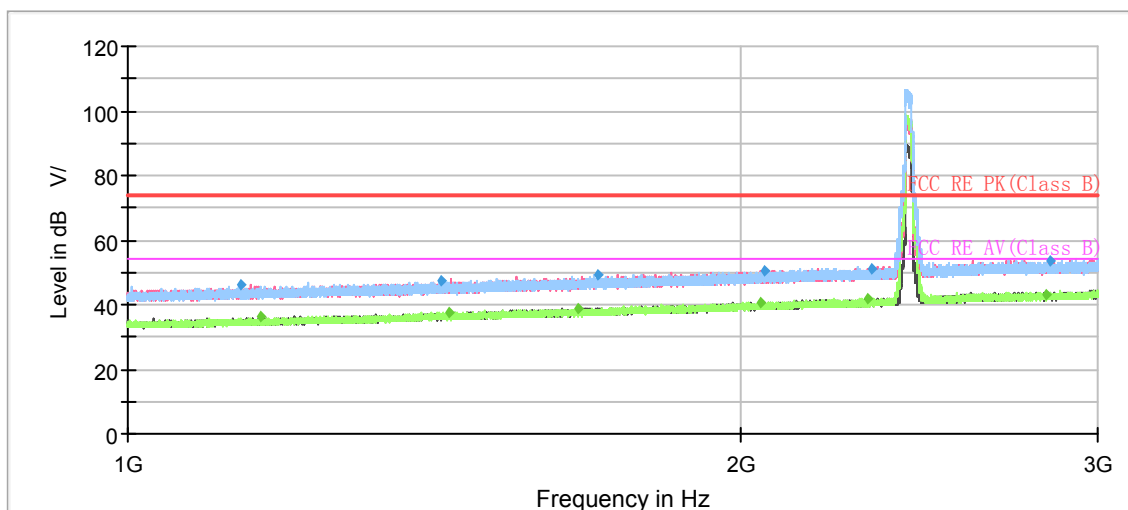


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3958.00	40.80	---	74.00	33.20	200.0	V	238.00	-4
4044.00	---	31.61	54.00	22.39	100.0	V	316.00	-3
5152.00	42.55	---	74.00	31.45	100.0	H	351.00	-1
5179.50	---	33.20	54.00	20.80	200.0	V	230.00	-1
6915.50	44.06	---	74.00	29.94	100.0	H	287.00	1
7088.00	---	33.77	54.00	20.23	200.0	V	77.00	1
8462.50	45.60	---	74.00	28.40	100.0	H	133.00	4
8532.50	---	35.63	54.00	18.37	200.0	V	155.00	4
10601.50	47.72	---	74.00	26.28	200.0	V	116.00	5
10614.50	---	36.61	54.00	17.39	100.0	V	354.00	5
13297.00	---	38.31	54.00	15.69	200.0	H	73.00	9
13301.00	48.70	---	74.00	25.30	100.0	V	190.00	9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH3

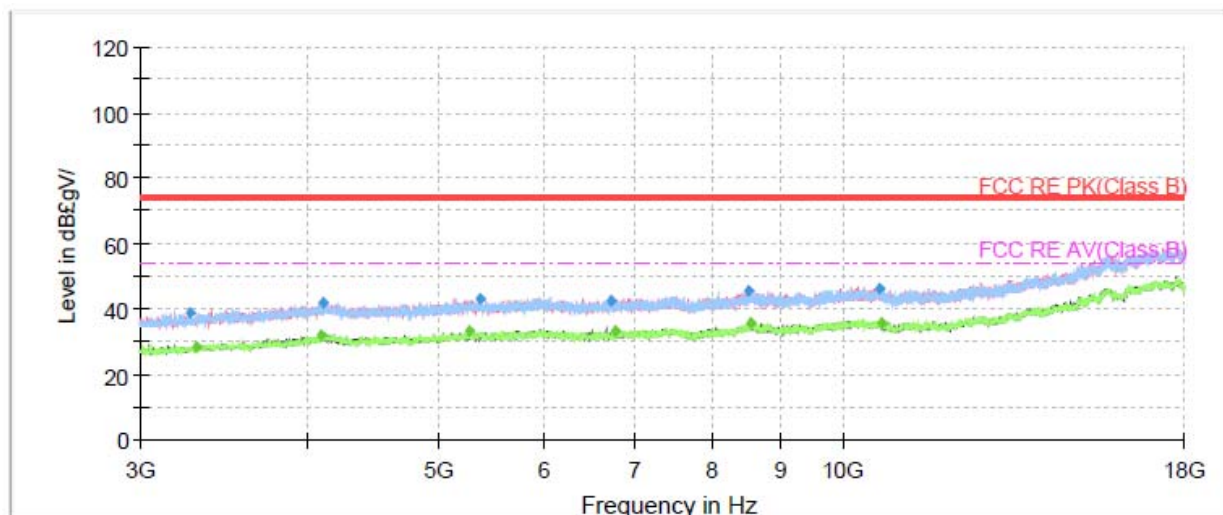


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1135.60	46.24	---	74.00	27.76	200.0	H	352.00	-8
1163.40	---	36.02	54.00	17.98	100.0	H	211.00	-8
1425.47	47.23	---	74.00	26.77	100.0	V	239.00	-6
1437.40	---	37.55	54.00	16.45	100.0	V	202.00	-6
1667.13	---	39.00	54.00	15.00	100.0	H	106.00	-5
1702.13	49.22	---	74.00	24.78	100.0	H	1.00	-5
2045.33	---	40.71	54.00	13.29	200.0	V	55.00	-3
2058.47	50.58	---	74.00	23.42	100.0	V	262.00	-3
2309.67	---	41.55	54.00	12.45	100.0	V	0.00	-1
2320.47	50.80	---	74.00	23.20	100.0	H	242.00	-1
2828.00	---	43.26	54.00	10.74	100.0	V	277.00	1
2843.20	53.46	---	74.00	20.54	200.0	V	168.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

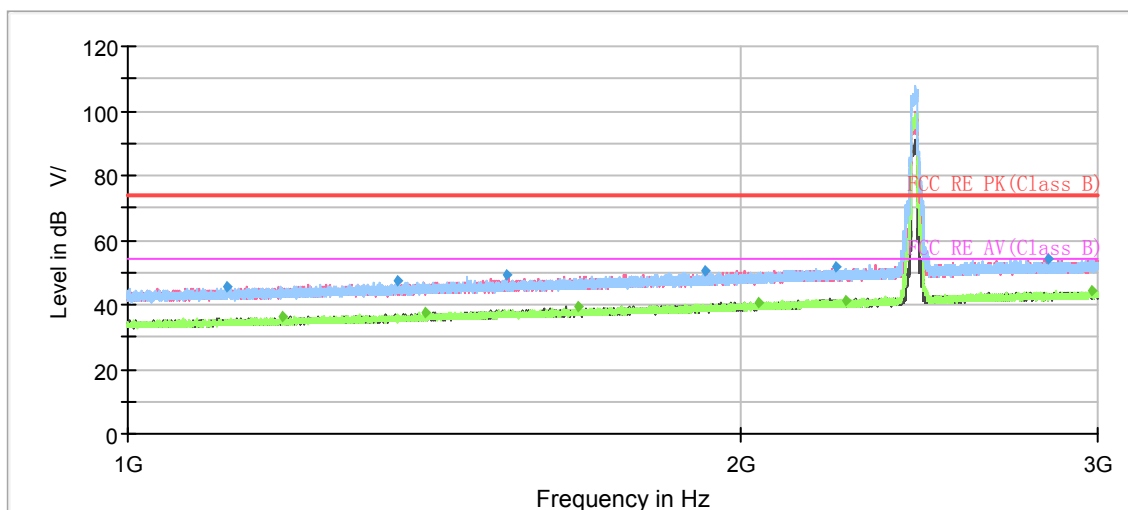


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3269.00	38.75	---	74.00	35.25	200.0	H	190.00	-7
3297.00	---	28.50	54.00	25.50	200.0	V	336.00	-7
4096.00	---	31.74	54.00	22.26	100.0	H	176.00	-3
4099.50	41.63	---	74.00	32.37	200.0	V	0.00	-3
5272.50	---	33.48	54.00	20.52	200.0	V	180.00	-1
5364.50	42.97	---	74.00	31.03	200.0	V	252.00	-1
6724.00	42.71	---	74.00	31.29	100.0	V	209.00	0
6777.00	---	33.08	54.00	20.92	100.0	V	344.00	0
8525.50	45.68	---	74.00	28.32	200.0	H	347.00	4
8560.00	---	35.57	54.00	18.43	200.0	V	68.00	4
10661.50	46.30	---	74.00	27.70	100.0	H	48.00	5
10684.50	---	35.59	54.00	18.41	100.0	V	64.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH6

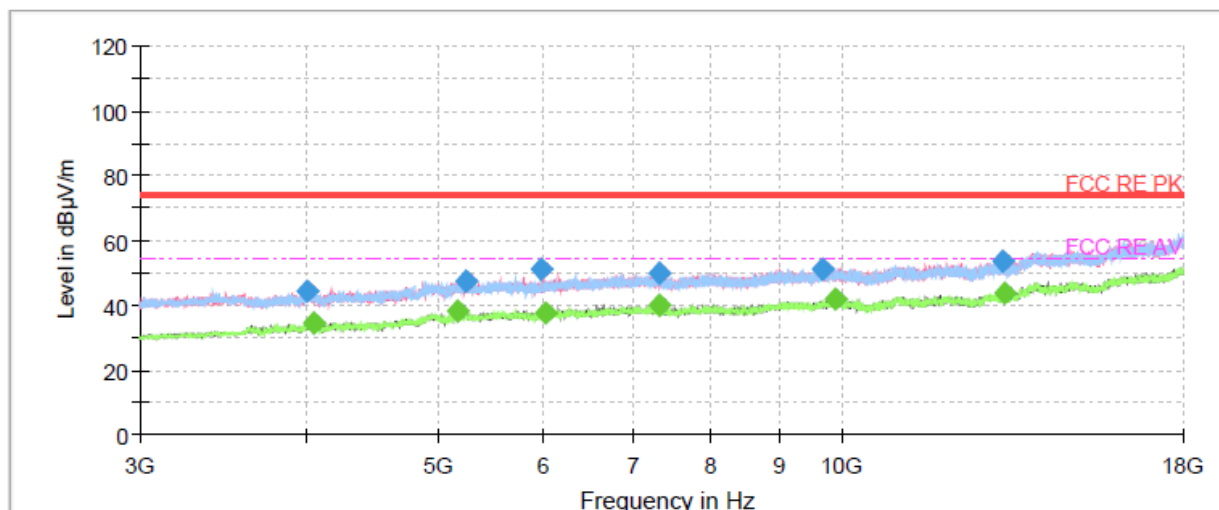


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1120.13	45.67	---	74.00	28.33	200.0	V	5.00	-8
1190.87	---	36.17	54.00	17.83	100.0	H	258.00	-8
1358.87	47.21	---	74.00	26.79	200.0	H	175.00	-7
1401.53	---	37.47	54.00	16.53	100.0	H	11.00	-6
1537.07	49.03	---	74.00	24.97	100.0	V	304.00	-5
1665.20	---	39.11	54.00	14.89	200.0	V	12.00	-5
1924.53	50.35	---	74.00	23.65	200.0	H	326.00	-3
2043.87	---	40.91	54.00	13.09	200.0	V	0.00	-3
2229.00	51.43	---	74.00	22.57	100.0	V	319.00	-2
2256.73	---	41.45	54.00	12.55	200.0	V	50.00	-2
2837.27	54.02	---	74.00	19.98	100.0	H	235.00	1
2977.07	---	44.23	54.00	9.77	200.0	V	123.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

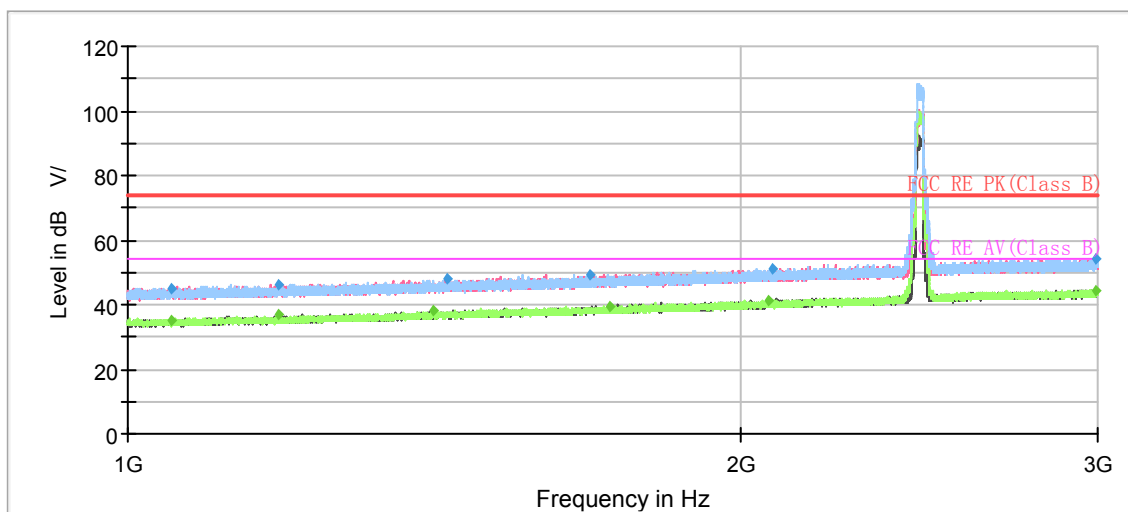


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4006.500000	44.06	---	74.00	29.94	200.0	V	160.0	-15.4
4037.500000	---	34.73	54.00	19.27	100.0	V	277.0	-15.3
5182.500000	---	37.96	54.00	16.04	200.0	H	328.0	-11.7
5262.000000	47.37	---	74.00	26.63	200.0	V	22.0	-11.0
5976.500000	51.21	---	74.00	22.79	100.0	H	281.0	-10.2
6014.500000	---	37.68	54.00	16.32	200.0	V	202.0	-9.8
7320.500000	---	39.80	54.00	14.20	100.0	V	0.0	-7.1
7334.000000	49.77	---	74.00	24.23	100.0	H	254.0	-7.2
9681.500000	51.01	---	74.00	22.99	100.0	H	9.0	-5.4
9898.500000	---	41.56	54.00	12.44	200.0	V	0.0	-5.4
13206.500000	53.65	---	74.00	20.35	200.0	V	85.0	-2.3
13231.000000	---	43.45	54.00	10.55	200.0	H	0.0	-2.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH9

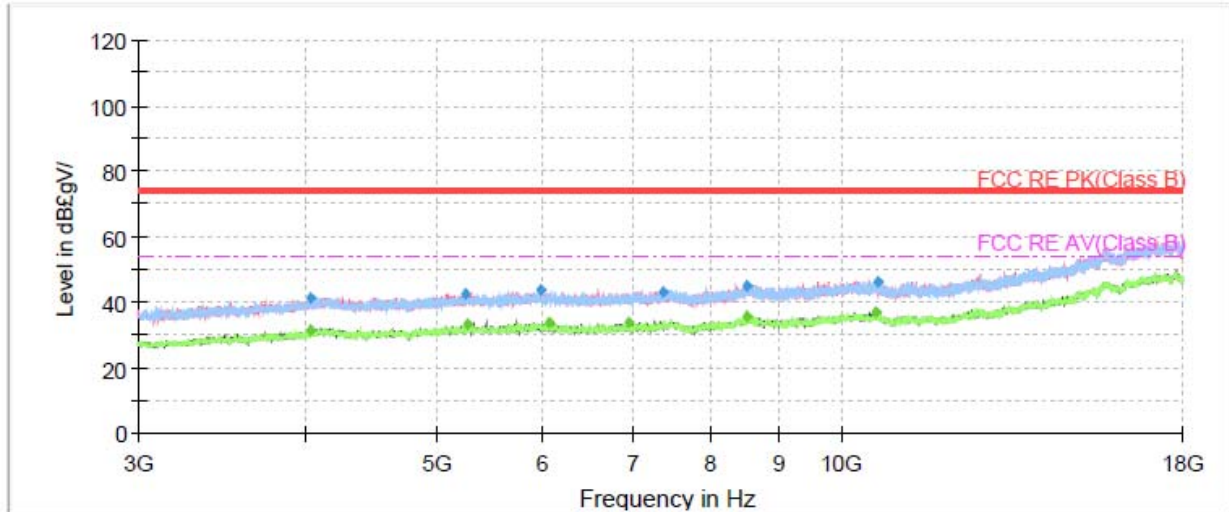


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1050.27	44.83	---	74.00	29.17	200.0	H	153.00	-9
1051.20	---	35.05	54.00	18.95	200.0	V	0.00	-9
1187.27	---	36.68	54.00	17.32	100.0	H	146.00	-8
1187.27	46.28	---	74.00	27.72	200.0	V	36.00	-8
1413.33	---	38.30	54.00	15.70	200.0	V	102.00	-6
1437.20	47.83	---	74.00	26.17	100.0	V	350.00	-6
1686.20	49.15	---	74.00	24.85	100.0	V	222.00	-5
1726.33	---	39.35	54.00	14.65	100.0	V	129.00	-4
2068.20	---	41.17	54.00	12.83	100.0	V	328.00	-3
2077.60	50.97	---	74.00	23.03	100.0	V	357.00	-3
2992.80	54.40	---	74.00	19.60	100.0	V	291.00	1
2995.80	---	44.58	54.00	9.42	100.0	H	131.00	2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

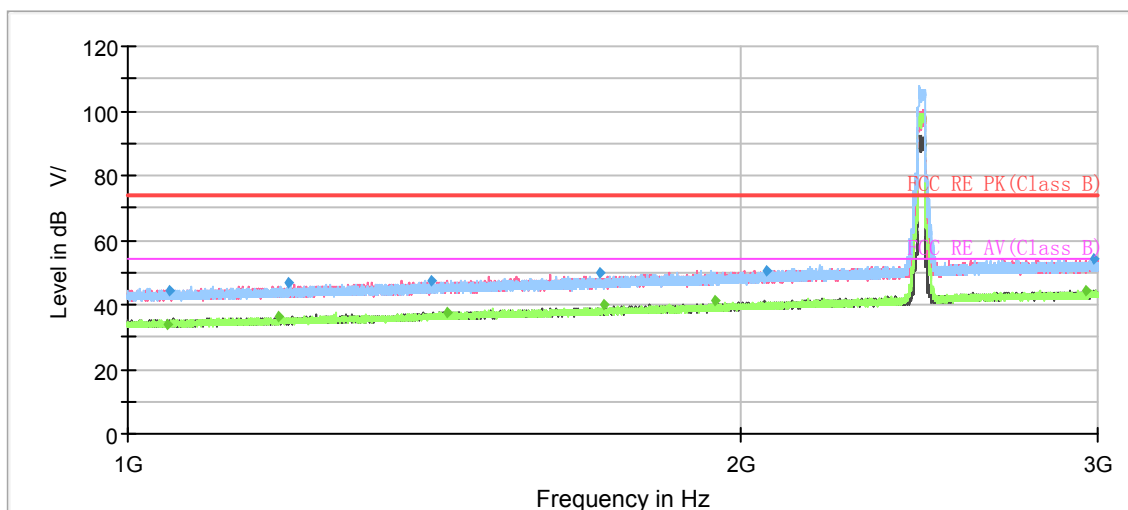


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4032.00	41.07	---	74.00	32.93	100.0	V	164.00	-4
4033.00	---	31.31	54.00	22.69	200.0	H	259.00	-4
5244.50	42.46	---	74.00	31.54	200.0	H	204.00	-1
5281.00	---	33.18	54.00	20.82	200.0	H	338.00	-1
5968.50	43.58	---	74.00	30.42	200.0	V	52.00	0
6069.50	---	33.80	54.00	20.20	100.0	H	186.00	0
6946.50	---	33.61	54.00	20.39	200.0	V	6.00	1
7387.50	43.30	---	74.00	30.70	200.0	V	278.00	1
8525.50	44.87	---	74.00	29.13	200.0	V	0.00	4
8530.50	---	35.71	54.00	18.29	200.0	H	307.00	4
10626.50	---	37.15	54.00	16.85	200.0	V	155.00	5
10678.00	46.11	---	74.00	27.89	100.0	V	180.00	5

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH10

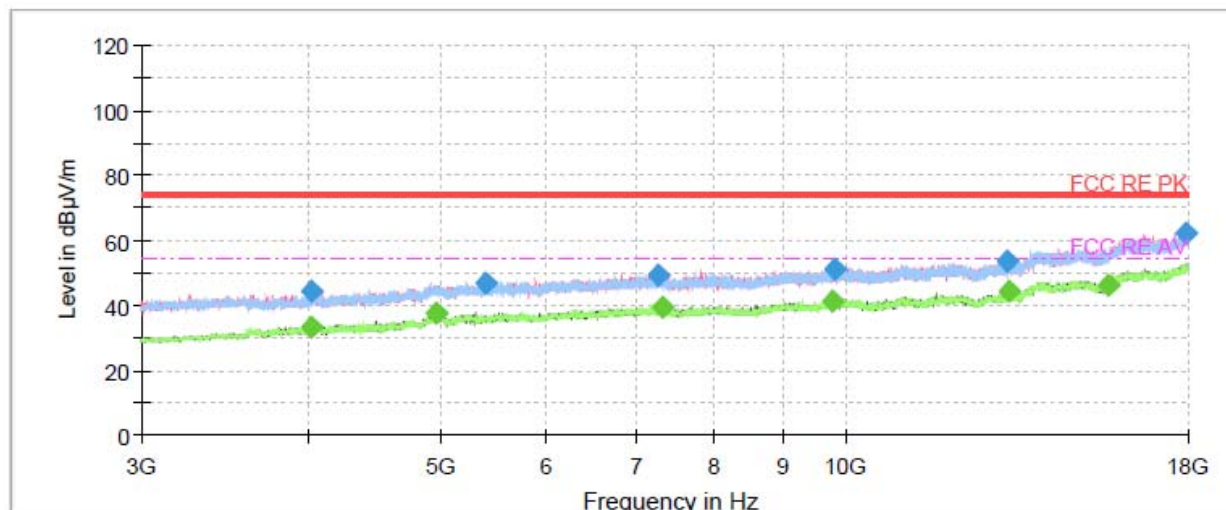


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1046.93	---	33.98	54.00	20.02	200.0	V	322.00	-9
1047.67	44.42	---	74.00	29.58	200.0	V	198.00	-9
1186.53	---	36.13	54.00	17.87	200.0	V	276.00	-8
1199.00	46.61	---	74.00	27.39	200.0	V	329.00	-8
1410.40	47.64	---	74.00	26.36	200.0	H	304.00	-6
1437.00	---	37.66	54.00	16.34	200.0	H	77.00	-6
1706.93	49.70	---	74.00	24.30	100.0	H	132.00	-5
1715.13	---	39.78	54.00	14.22	200.0	V	276.00	-5
1944.20	---	41.26	54.00	12.74	200.0	H	146.00	-3
2060.00	50.70	---	74.00	23.30	200.0	V	314.00	-3
2960.07	---	44.52	54.00	9.48	200.0	H	5.00	1
2988.27	54.20	---	74.00	19.80	100.0	V	135.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

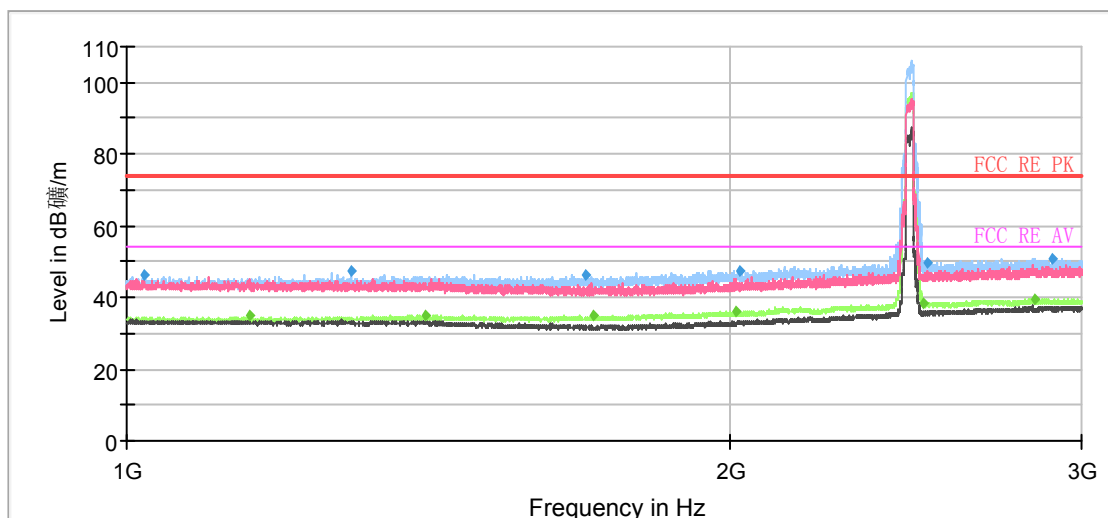


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4014.500000	---	33.48	54.00	20.52	200.0	V	109.0	-15.3
4017.000000	44.32	---	74.00	29.68	100.0	H	304.0	-15.3
4963.500000	---	37.49	54.00	16.51	100.0	V	306.0	-11.5
5420.500000	46.86	---	74.00	27.14	200.0	H	0.0	-10.8
7254.500000	49.54	---	74.00	24.46	200.0	H	117.0	-7.1
7325.000000	---	39.63	54.00	14.37	100.0	H	0.0	-7.2
9790.000000	---	41.53	54.00	12.47	100.0	V	173.0	-5.5
9847.000000	51.35	---	74.00	22.65	200.0	H	143.0	-5.4
13210.000000	53.82	---	74.00	20.18	200.0	H	237.0	-2.3
13237.500000	---	44.20	54.00	9.80	100.0	V	359.0	-2.2
15680.500000	---	46.01	54.00	7.99	200.0	V	304.0	2.4
17907.000000	62.23	---	74.00	11.77	100.0	V	122.0	5.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT20) CH11

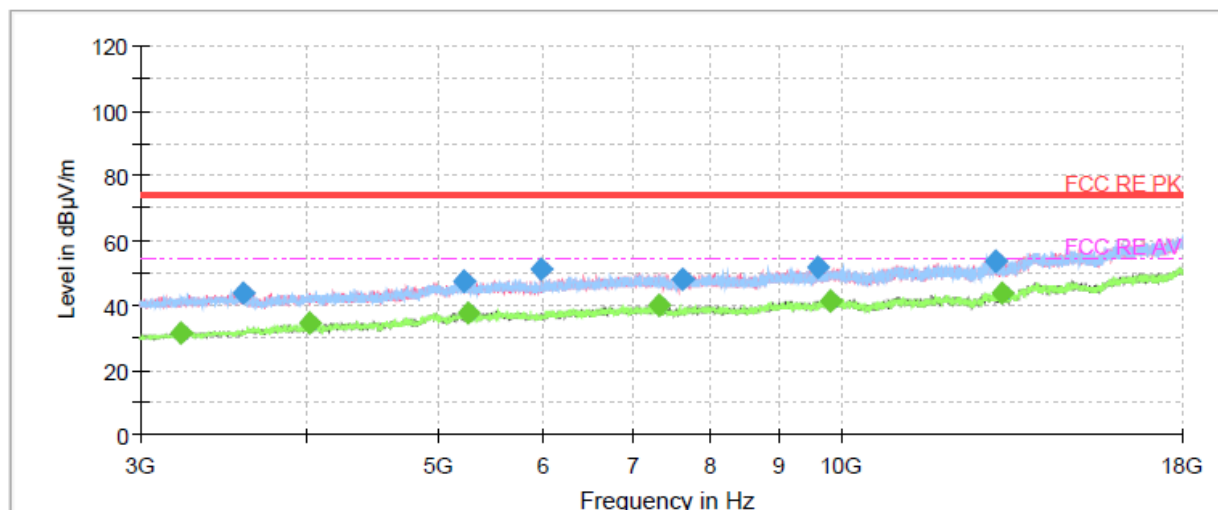


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1021.50	46.03	---	74.00	27.97	200.0	H	155.00	-10
1152.00	---	34.85	54.00	19.15	100.0	H	77.00	-9
1294.25	47.20	---	74.00	26.80	100.0	H	1.00	-8
1411.75	---	35.00	54.00	19.00	100.0	H	119.00	-7
1696.00	46.27	---	74.00	27.73	200.0	H	25.00	-6
1711.50	---	34.84	54.00	19.16	100.0	H	50.00	-6
2015.50	---	36.09	54.00	17.91	200.0	H	25.00	-5
2023.00	47.61	---	74.00	26.39	200.0	H	25.00	-5
2503.00	---	38.10	54.00	15.90	100.0	H	128.00	-4
2509.75	49.64	---	74.00	24.36	100.0	H	6.00	-4
2844.00	---	39.59	54.00	14.41	200.0	H	6.00	-3
2903.75	50.87	---	74.00	23.13	200.0	H	68.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

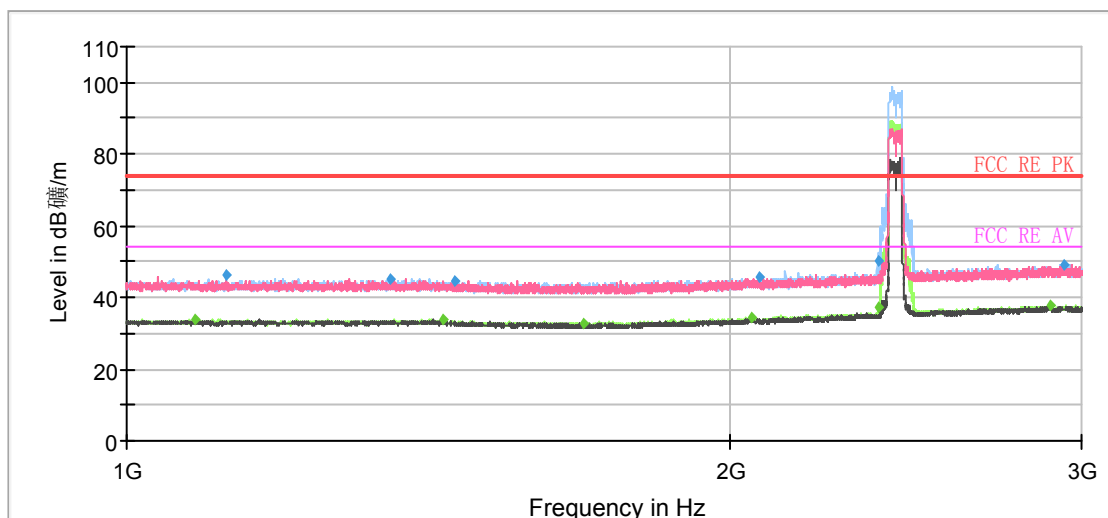


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.500000	---	31.30	54.00	22.70	100.0	V	0.0	-18.1
3583.500000	43.74	---	74.00	30.26	100.0	V	188.0	-16.8
4013.000000	---	34.52	54.00	19.48	100.0	H	0.0	-15.3
5234.000000	47.65	---	74.00	26.35	200.0	V	0.0	-11.1
5272.000000	---	37.52	54.00	16.48	200.0	V	305.0	-11.0
5986.500000	51.19	---	74.00	22.81	100.0	V	252.0	-10.1
7324.000000	---	39.94	54.00	14.06	200.0	V	161.0	-7.1
7630.000000	48.19	---	74.00	25.81	100.0	V	175.0	-7.5
9617.000000	51.65	---	74.00	22.35	200.0	V	346.0	-5.5
9844.500000	---	41.36	54.00	12.64	200.0	H	134.0	-5.4
13054.000000	53.74	---	74.00	20.26	200.0	V	122.0	-3.0
13208.500000	---	43.70	54.00	10.30	200.0	H	0.0	-2.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH3

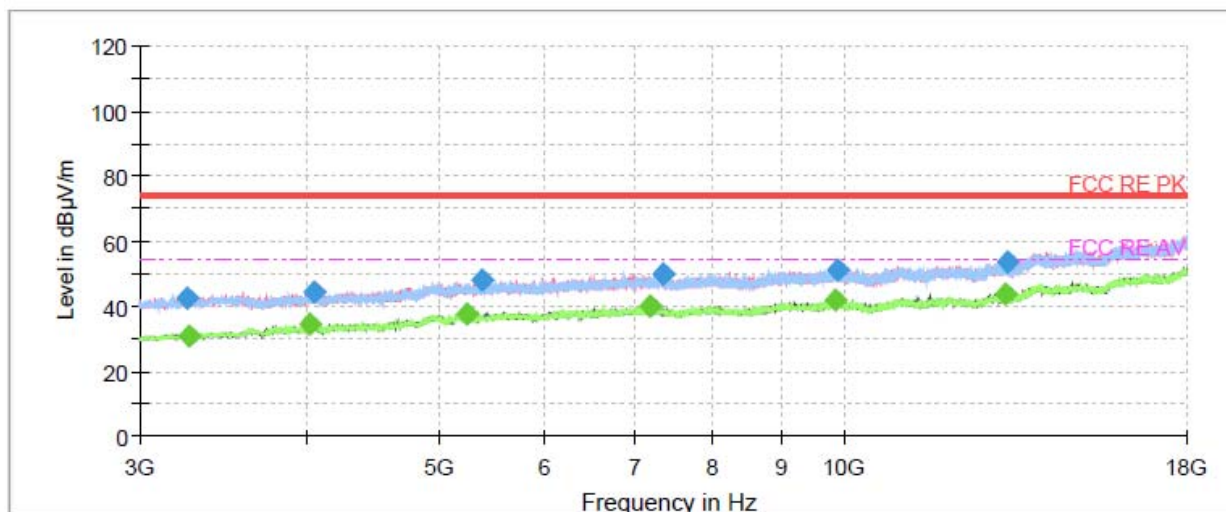


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1081.50	---	33.93	54.00	20.07	100.0	H	256.00	-9
1120.75	46.01	---	74.00	27.99	200.0	H	0.00	-9
1355.75	45.30	---	74.00	28.70	100.0	H	334.00	-7
1439.00	---	33.85	54.00	20.15	200.0	H	0.00	-7
1460.00	44.69	---	74.00	29.31	200.0	H	300.00	-7
1692.75	---	32.75	54.00	21.25	100.0	V	2.00	-6
2052.50	---	34.24	54.00	19.76	200.0	H	0.00	-5
2072.75	45.46	---	74.00	28.54	100.0	H	239.00	-5
2372.25	50.40	---	74.00	23.60	200.0	H	230.00	-4
2375.00	---	37.35	54.00	16.65	200.0	H	230.00	-4
2891.75	---	37.83	54.00	16.17	200.0	H	0.00	-3
2937.00	49.24	---	74.00	24.76	100.0	V	158.00	-3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

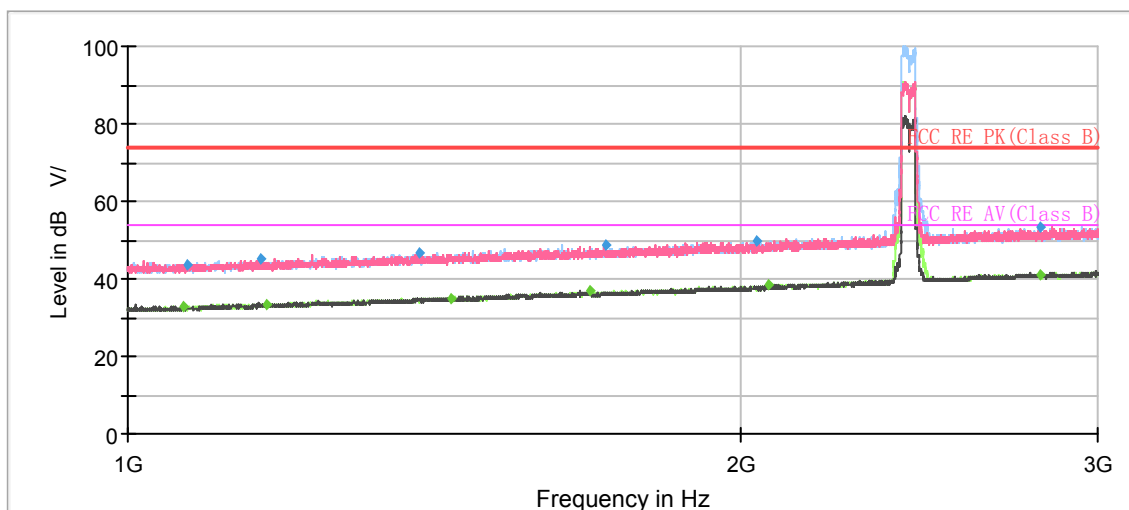


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3259.000000	42.55	---	74.00	31.45	100.0	H	22.0	-17.9
3271.000000	---	30.53	54.00	23.47	100.0	V	159.0	-17.9
4010.500000	---	34.54	54.00	19.46	200.0	H	324.0	-15.3
4039.500000	44.39	---	74.00	29.61	100.0	V	133.0	-15.3
5261.500000	---	37.57	54.00	16.43	200.0	H	160.0	-11.0
5382.000000	48.05	---	74.00	25.95	200.0	H	198.0	-11.0
7194.000000	---	40.05	54.00	13.95	100.0	V	322.0	-7.3
7344.500000	49.62	---	74.00	24.38	200.0	H	134.0	-7.2
9870.500000	---	41.67	54.00	12.33	200.0	V	225.0	-5.4
9898.500000	51.21	---	74.00	22.79	200.0	V	34.0	-5.4
13225.000000	---	43.85	54.00	10.15	100.0	V	359.0	-2.3
13234.500000	53.67	---	74.00	20.33	200.0	V	71.0	-2.2

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH4

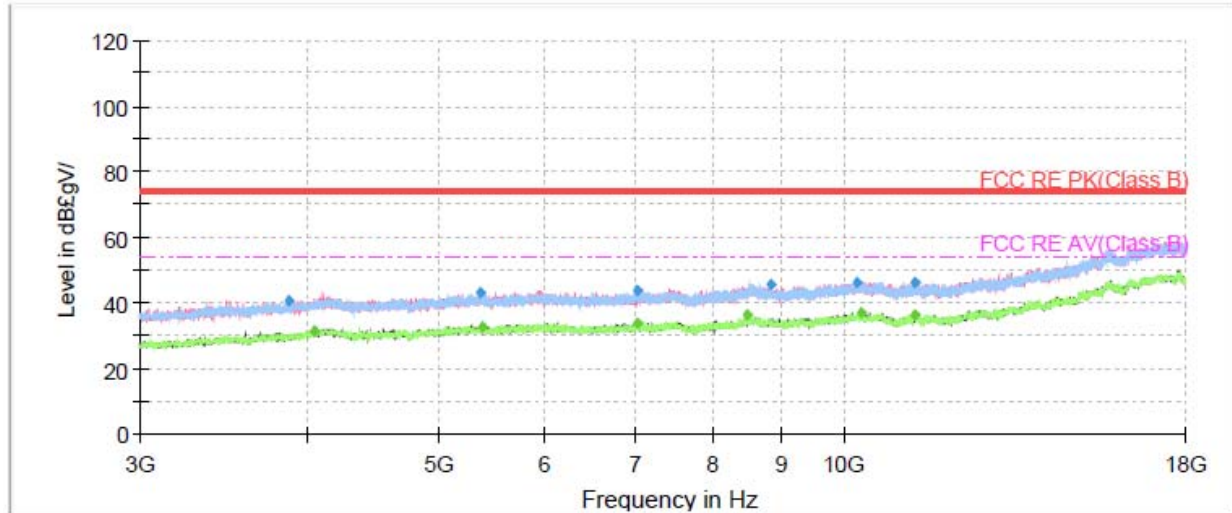


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1064.75	---	32.86	54.00	21.14	100.0	V	0.00	3
1068.75	43.81	---	74.00	30.19	100.0	V	270.00	3
1163.25	45.01	---	74.00	28.99	200.0	V	13.00	4
1169.50	---	33.18	54.00	20.82	200.0	H	333.00	4
1390.25	46.57	---	74.00	27.43	200.0	V	99.00	5
1442.00	---	35.08	54.00	18.92	100.0	H	202.00	5
1686.00	---	36.71	54.00	17.29	100.0	H	82.00	7
1717.50	48.79	---	74.00	25.21	200.0	H	210.00	7
2037.75	49.86	---	74.00	24.14	100.0	H	5.00	8
2066.50	---	38.27	54.00	15.73	200.0	H	263.00	8
2807.75	---	40.82	54.00	13.18	200.0	H	0.00	11
2812.50	53.41	---	74.00	20.59	200.0	H	238.00	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

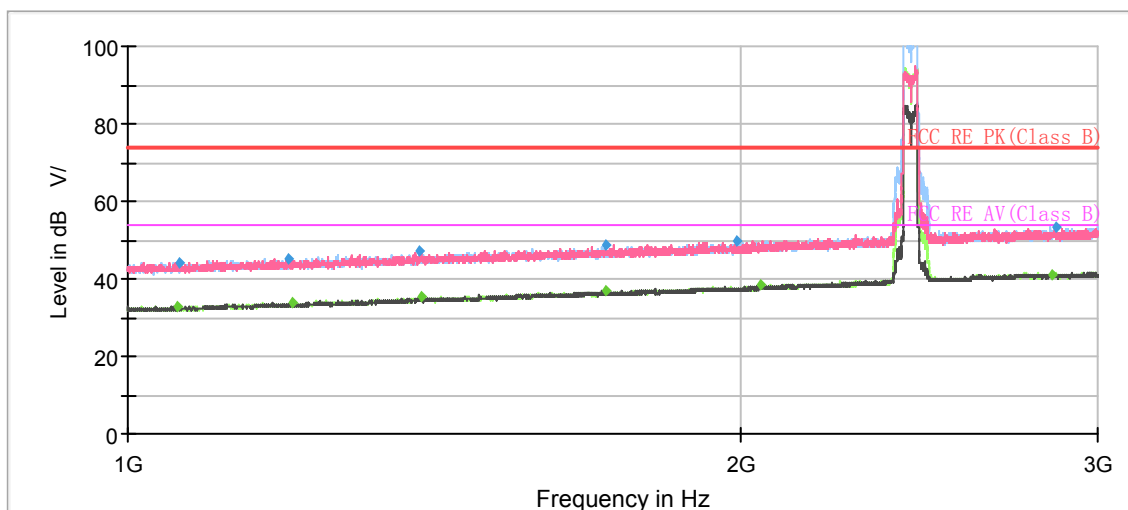


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3876.00	40.61	---	74.00	33.39	200.0	H	303.00	-5
4041.50	---	31.42	54.00	22.58	100.0	V	67.00	-3
5377.00	42.89	---	74.00	31.11	200.0	H	6.00	-1
5383.00	---	32.78	54.00	21.22	200.0	H	190.00	-1
7019.00	---	33.78	54.00	20.22	200.0	H	56.00	1
7032.50	43.87	---	74.00	30.13	100.0	V	170.00	1
8499.00	---	36.24	54.00	17.76	100.0	V	292.00	4
8828.00	45.67	---	74.00	28.33	200.0	H	30.00	3
10221.50	46.06	---	74.00	27.94	100.0	H	242.00	5
10317.00	---	36.85	54.00	17.15	200.0	H	311.00	6
11295.00	45.98	---	74.00	28.02	200.0	V	267.00	6
11296.50	---	36.10	54.00	17.90	200.0	H	45.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH5

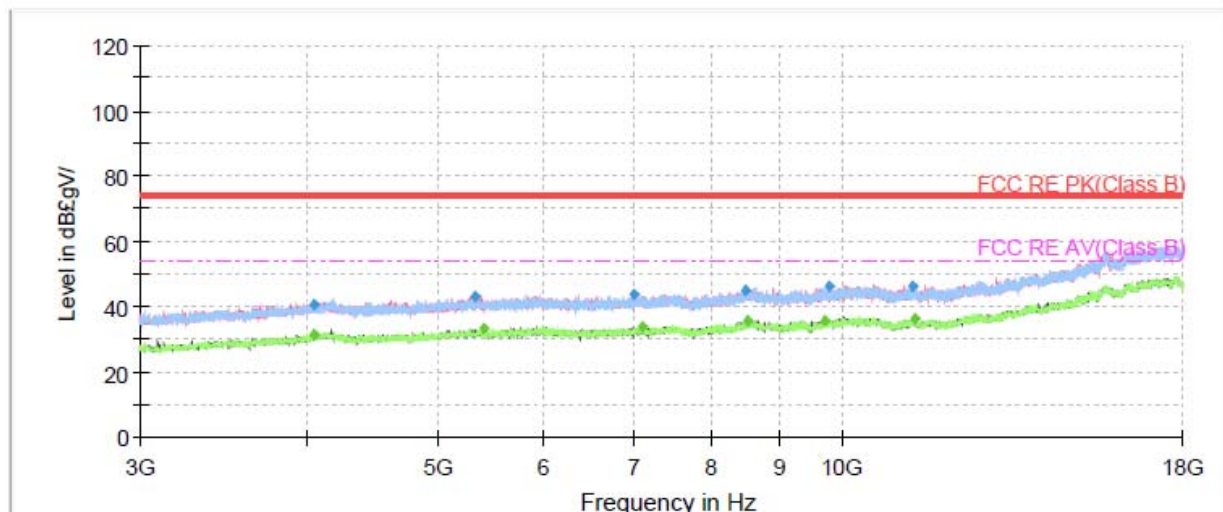


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1056.75	---	32.79	54.00	21.21	200.0	H	316.00	3
1059.00	43.93	---	74.00	30.07	200.0	V	80.00	3
1198.50	45.31	---	74.00	28.69	200.0	V	98.00	4
1206.00	---	33.77	54.00	20.23	200.0	H	152.00	4
1392.50	47.11	---	74.00	26.89	100.0	H	98.00	5
1394.75	---	35.26	54.00	18.74	200.0	V	150.00	5
1717.25	48.50	---	74.00	25.50	200.0	V	236.00	7
1718.00	---	36.83	54.00	17.17	200.0	V	138.00	7
1992.50	49.92	---	74.00	24.08	200.0	H	280.00	8
2045.75	---	38.25	54.00	15.75	100.0	V	10.00	8
2849.50	---	41.28	54.00	12.72	200.0	H	346.00	11
2864.75	53.43	---	74.00	20.57	100.0	H	15.00	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

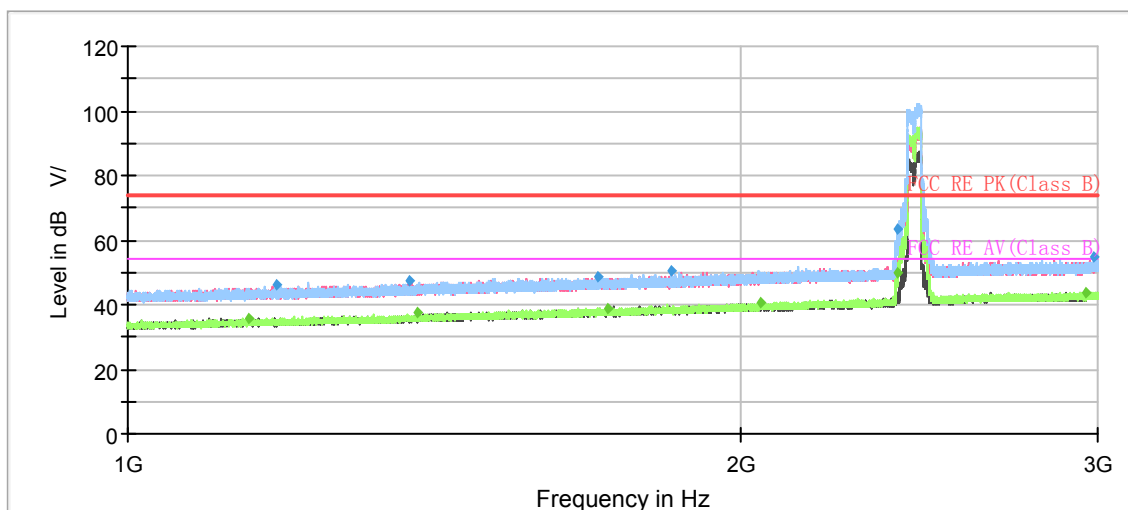


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4042.00	40.88	---	74.00	33.12	200.0	H	171.00	-3
4043.50	---	31.65	54.00	22.35	100.0	H	331.00	-3
5329.00	42.93	---	74.00	31.07	100.0	H	83.00	-1
5419.00	---	32.99	54.00	21.01	200.0	H	100.00	-1
7010.50	43.42	---	74.00	30.58	200.0	V	0.00	1
7108.50	---	33.81	54.00	20.19	200.0	H	0.00	1
8474.00	44.71	---	74.00	29.29	200.0	H	0.00	4
8523.00	---	35.93	54.00	18.07	200.0	V	156.00	4
9731.50	---	35.54	54.00	18.46	200.0	H	51.00	4
9781.50	45.94	---	74.00	28.06	200.0	H	116.00	4
11325.50	46.12	---	74.00	27.88	100.0	V	16.00	6
11357.00	---	36.38	54.00	17.62	100.0	H	0.00	6

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH6

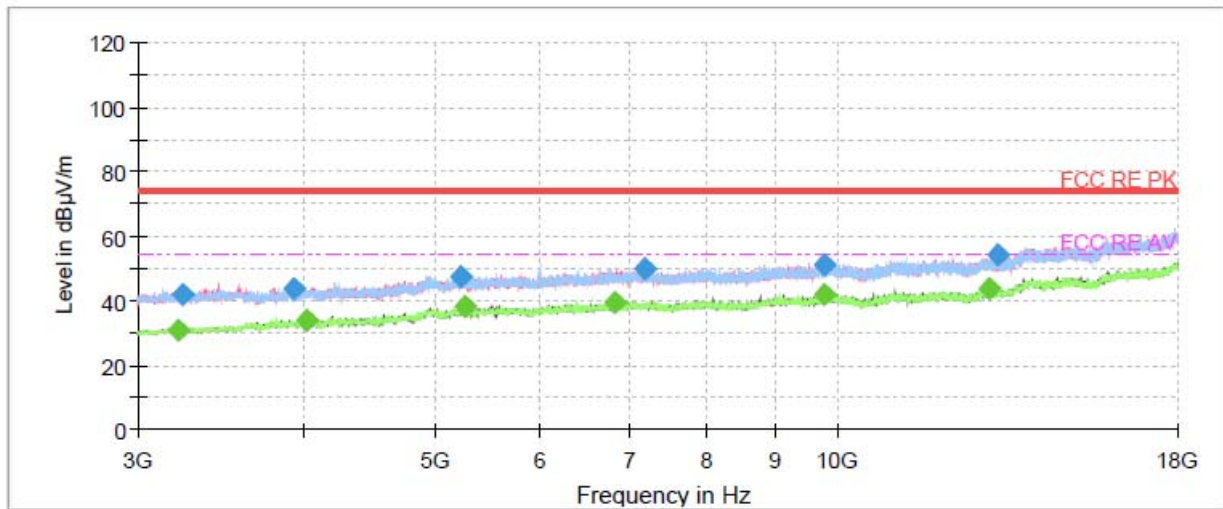


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1147.80	---	35.71	54.00	18.29	100.0	H	199.00	-8
1182.47	45.95	---	74.00	28.05	100.0	H	291.00	-8
1375.93	47.14	---	74.00	26.86	200.0	V	138.00	-6
1388.60	---	37.37	54.00	16.63	100.0	H	351.00	-6
1704.13	48.56	---	74.00	25.44	100.0	H	160.00	-5
1724.00	---	38.79	54.00	15.21	200.0	V	168.00	-4
1851.07	50.19	---	74.00	23.81	200.0	H	53.00	-4
2045.53	---	40.48	54.00	13.52	200.0	H	126.00	-3
2389.53	63.12	---	74.00	10.88	200.0	H	187.00	-1
2389.53	---	49.62	54.00	4.38	200.0	H	187.00	-1
2956.67	---	43.88	54.00	10.12	100.0	H	207.00	1
2985.20	54.47	---	74.00	19.53	200.0	H	38.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

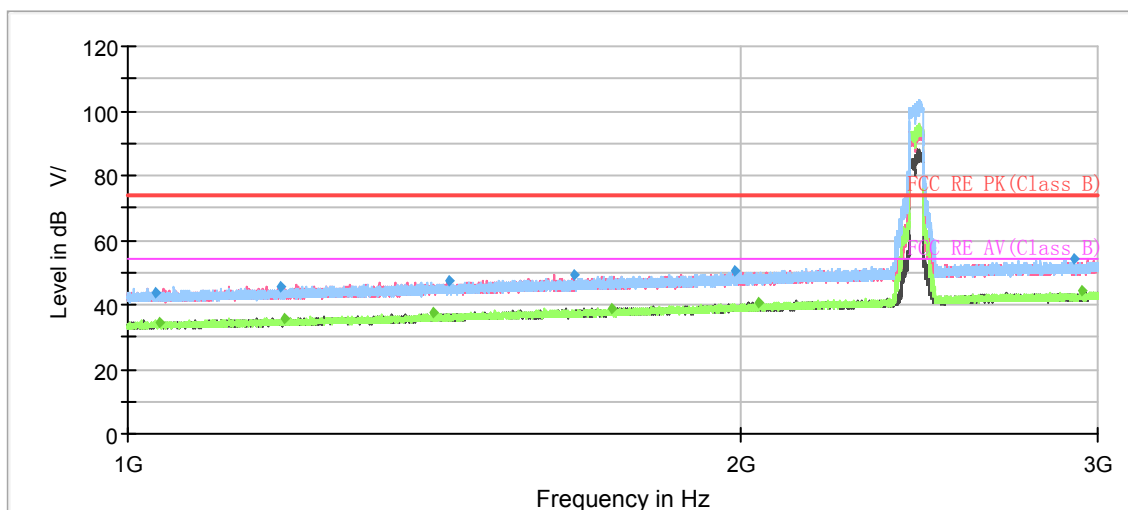


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3213.500000	---	30.53	54.00	23.47	100.0	V	236.0	-18.1
3241.500000	41.89	---	74.00	32.11	200.0	V	187.0	-18.0
3922.500000	43.87	---	74.00	30.13	200.0	V	97.0	-15.9
4015.000000	---	33.94	54.00	20.06	200.0	V	278.0	-15.3
5241.000000	47.53	---	74.00	26.47	200.0	V	292.0	-11.1
5264.500000	---	37.94	54.00	16.06	200.0	H	198.0	-11.0
6816.500000	---	39.56	54.00	14.44	200.0	V	148.0	-7.7
7178.500000	49.76	---	74.00	24.24	200.0	H	41.0	-7.3
9784.500000	---	41.82	54.00	12.18	100.0	H	134.0	-5.6
9800.500000	51.22	---	74.00	22.78	100.0	V	94.0	-5.5
13003.500000	---	43.68	54.00	10.32	200.0	H	172.0	-3.2
13202.000000	54.04	---	74.00	19.96	100.0	V	311.0	-2.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH7

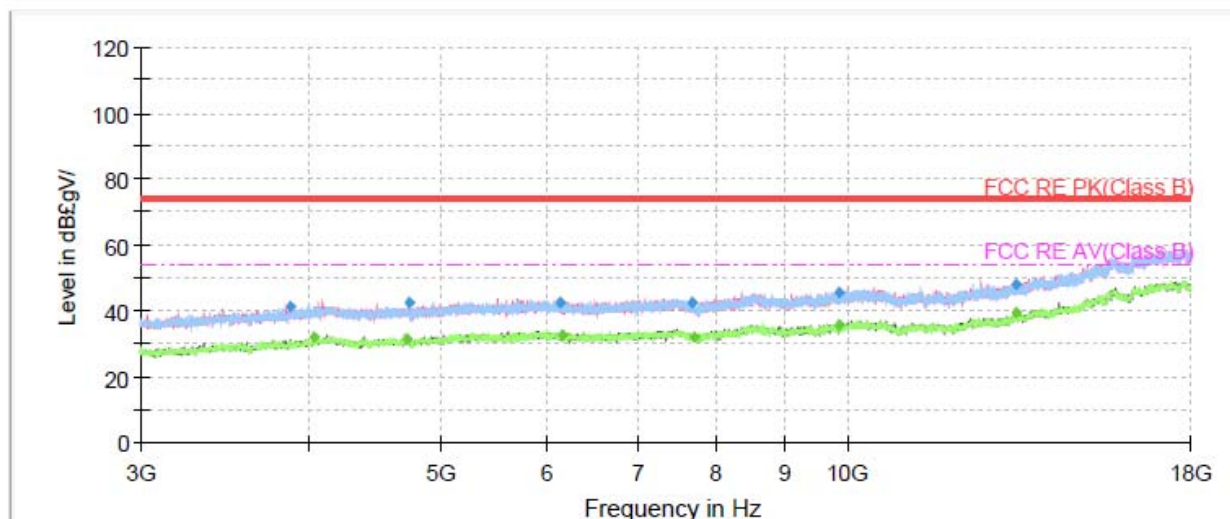


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1032.53	43.76	---	74.00	30.24	100.0	H	202.00	-9
1035.73	---	34.36	54.00	19.64	100.0	V	40.00	-9
1188.00	45.59	---	74.00	28.41	100.0	V	113.00	-8
1195.00	---	35.79	54.00	18.21	100.0	V	161.00	-8
1414.87	---	37.71	54.00	16.29	100.0	H	299.00	-6
1437.60	47.63	---	74.00	26.37	200.0	H	105.00	-6
1657.60	49.39	---	74.00	24.61	100.0	V	2.00	-5
1729.60	---	38.84	54.00	15.16	100.0	V	31.00	-4
1986.47	50.36	---	74.00	23.64	200.0	V	110.00	-3
2043.07	---	40.44	54.00	13.56	200.0	H	76.00	-3
2921.67	54.00	---	74.00	20.00	100.0	V	40.00	1
2947.67	---	44.47	54.00	9.53	100.0	H	343.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

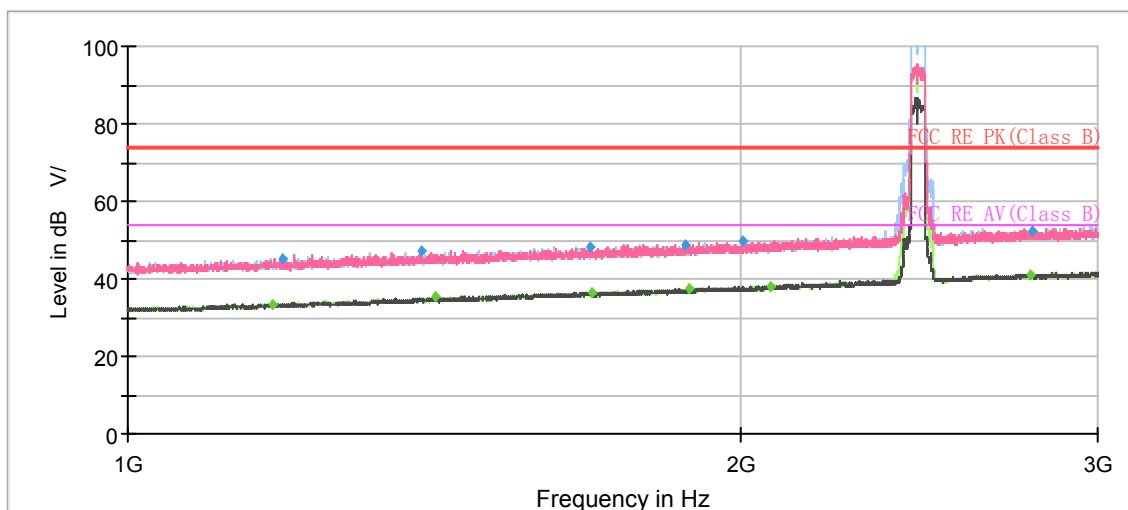


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3870.50	41.12	---	74.00	32.88	200.0	V	279.00	-5
4027.50	---	31.78	54.00	22.22	200.0	H	182.00	-4
4727.00	---	31.28	54.00	22.72	100.0	V	142.00	-3
4738.00	42.58	---	74.00	31.42	100.0	V	80.00	-3
6143.50	42.18	---	74.00	31.82	100.0	H	18.00	0
6165.50	---	32.44	54.00	21.56	100.0	V	51.00	0
7674.00	42.39	---	74.00	31.61	200.0	V	108.00	1
7716.00	---	32.09	54.00	21.91	200.0	V	32.00	1
9859.50	---	35.91	54.00	18.09	100.0	V	278.00	4
9877.00	45.43	---	74.00	28.57	200.0	V	256.00	4
13338.00	48.24	---	74.00	25.76	100.0	H	338.00	9
13351.00	---	39.64	54.00	14.36	200.0	H	81.00	9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH8

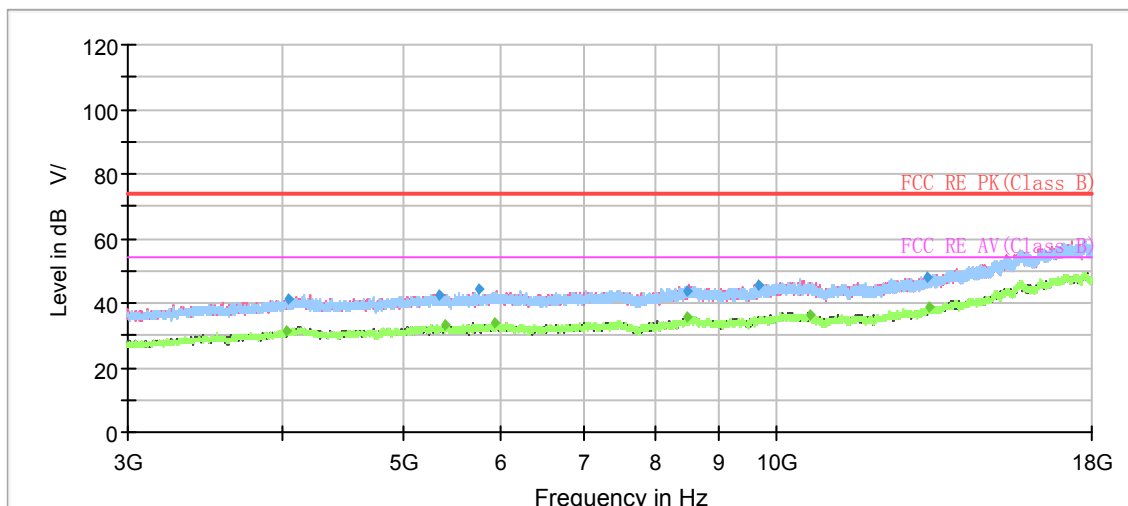


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1179.00	---	33.22	54.00	20.78	200.0	V	49.00	4
1190.50	45.33	---	74.00	28.67	200.0	H	237.00	4
1394.50	46.92	---	74.00	27.08	200.0	H	170.00	5
1415.75	---	35.30	54.00	18.70	200.0	V	55.00	5
1686.50	48.21	---	74.00	25.79	200.0	H	302.00	7
1691.25	---	36.66	54.00	17.34	200.0	H	226.00	7
1880.00	48.58	---	74.00	25.42	100.0	V	201.00	7
1888.50	---	37.51	54.00	16.49	100.0	H	52.00	7
2008.25	49.77	---	74.00	24.23	200.0	H	297.00	8
2071.00	---	38.19	54.00	15.81	100.0	V	312.00	8
2778.75	---	40.90	54.00	13.10	200.0	V	89.00	11
2785.25	52.47	---	74.00	21.53	100.0	H	0.00	11

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

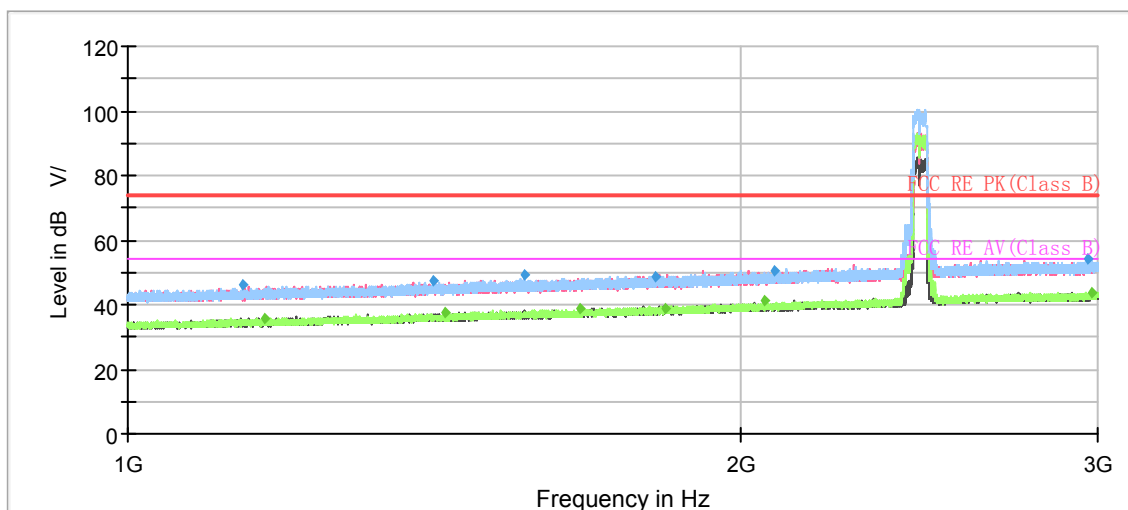


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4031.50	---	31.56	54.00	22.44	200.0	V	270.00	-4
4042.00	41.08	---	74.00	32.92	200.0	H	99.00	-3
5349.00	42.59	---	74.00	31.41	200.0	H	130.00	-1
5419.00	---	33.38	54.00	20.62	200.0	H	83.00	-1
5760.50	44.38	---	74.00	29.62	200.0	H	68.00	0
5943.00	---	34.00	54.00	20.00	200.0	V	247.00	0
8498.50	44.00	---	74.00	30.00	200.0	H	99.00	19
8499.00	---	35.82	54.00	18.18	100.0	H	63.00	4
9690.50	45.82	---	74.00	28.18	200.0	V	231.00	4
10650.00	---	36.16	54.00	17.84	100.0	V	120.00	19
13274.50	48.19	---	74.00	25.81	100.0	V	42.00	9
13291.00	---	38.91	54.00	15.09	200.0	H	264.00	9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

802.11n (HT40) CH9

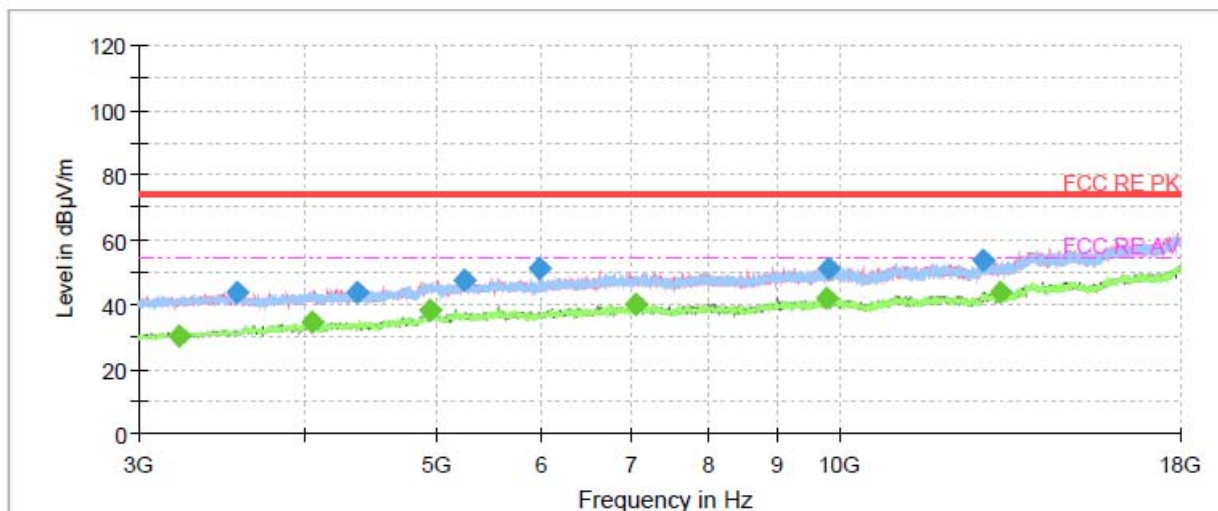


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1139.60	45.94	---	74.00	28.06	200.0	H	89.00	-8
1166.80	---	35.73	54.00	18.27	200.0	H	8.00	-8
1413.47	47.15	---	74.00	26.85	200.0	V	227.00	-6
1433.27	---	37.54	54.00	16.46	100.0	V	34.00	-6
1565.80	49.15	---	74.00	24.85	200.0	H	67.00	-5
1669.93	---	38.80	54.00	15.20	200.0	H	265.00	-5
1817.53	48.46	---	74.00	25.54	100.0	H	239.00	-4
1838.87	---	38.94	54.00	15.06	100.0	V	289.00	-4
2058.07	---	40.97	54.00	13.03	200.0	H	118.00	-3
2080.00	50.44	---	74.00	23.56	100.0	H	312.00	-3
2965.87	53.86	---	74.00	20.14	100.0	H	239.00	1
2980.73	---	43.80	54.00	10.20	200.0	V	345.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

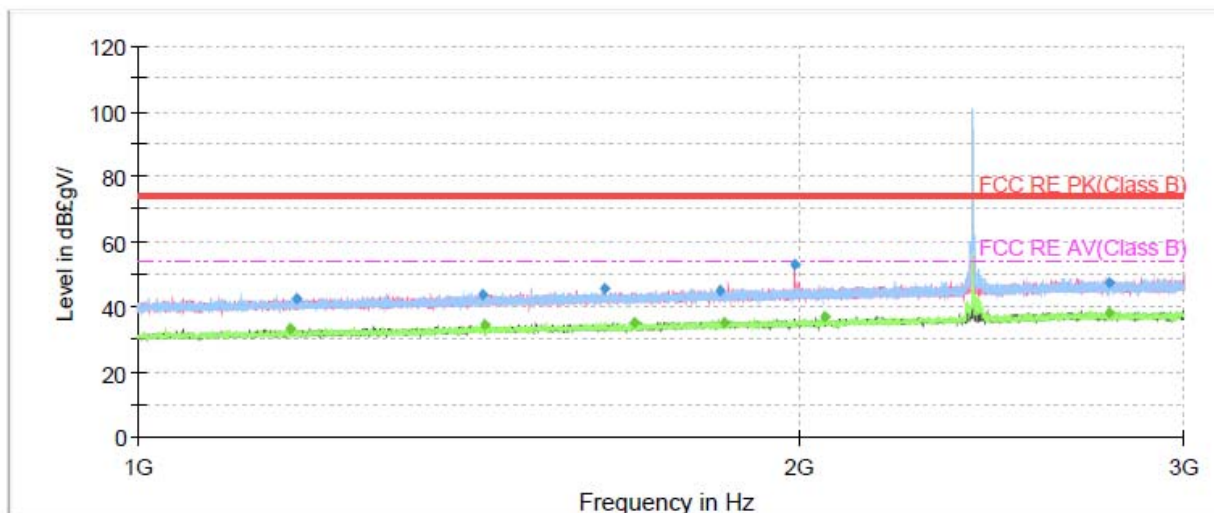


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3221.000000	---	30.31	54.00	23.69	200.0	V	189.0	-18.1
3554.500000	43.60	---	74.00	30.40	100.0	V	352.0	-17.0
4038.500000	---	34.32	54.00	19.68	200.0	H	147.0	-15.3
4362.000000	43.76	---	74.00	30.24	200.0	V	125.0	-14.4
4945.000000	---	37.92	54.00	16.08	100.0	V	289.0	-11.7
5257.500000	47.55	---	74.00	26.45	200.0	V	163.0	-11.0
5975.500000	51.14	---	74.00	22.86	100.0	V	213.0	-10.2
7061.500000	---	39.76	54.00	14.24	200.0	H	27.0	-7.6
9782.000000	---	41.58	54.00	12.42	100.0	V	0.0	-5.6
9849.500000	51.15	---	74.00	22.85	200.0	V	202.0	-5.4
12819.000000	53.48	---	74.00	20.52	200.0	H	41.0	-3.5
13223.000000	---	43.81	54.00	10.19	200.0	H	134.0	-2.3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE-Channel 0

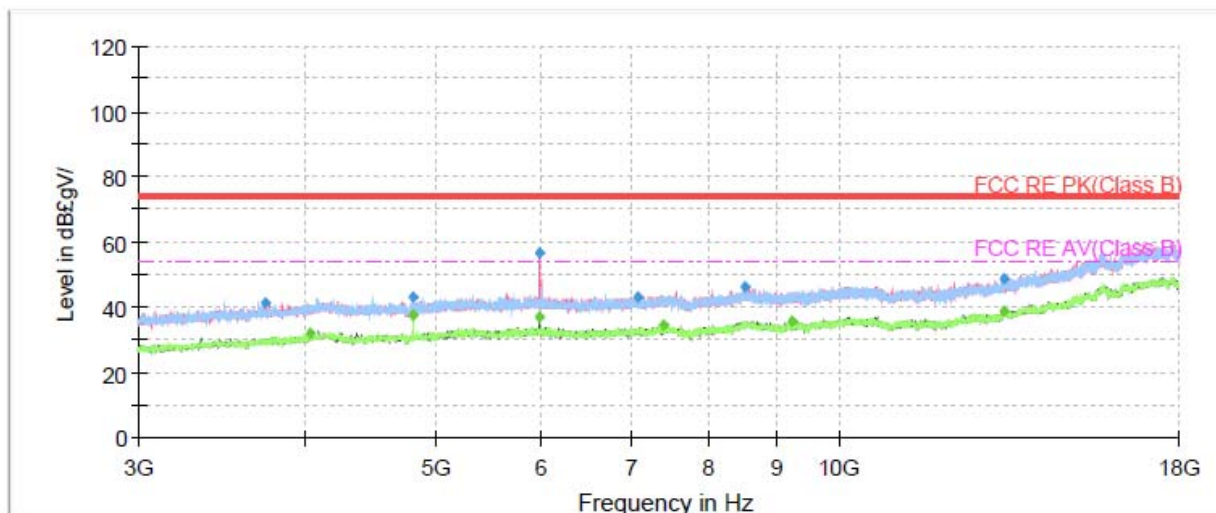


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1172.40	---	33.22	54.00	20.78	200.0	V	317.00	-8
1180.20	42.51	---	74.00	31.49	100.0	H	30.00	-8
1436.87	43.75	---	74.00	30.25	100.0	H	274.00	-6
1437.93	---	34.37	54.00	19.63	200.0	V	258.00	-6
1633.27	45.46	---	74.00	28.54	100.0	V	0.00	-5
1685.40	---	35.36	54.00	18.64	100.0	H	212.00	-5
1841.67	45.00	---	74.00	29.00	100.0	V	237.00	-4
1850.93	---	35.30	54.00	18.70	200.0	H	117.00	-4
1993.47	52.72	---	74.00	21.28	100.0	V	198.00	-3
2057.07	---	36.86	54.00	17.14	200.0	V	130.00	-3
2775.40	---	38.21	54.00	15.79	100.0	V	173.00	1
2775.67	47.64	---	74.00	26.36	200.0	H	13.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

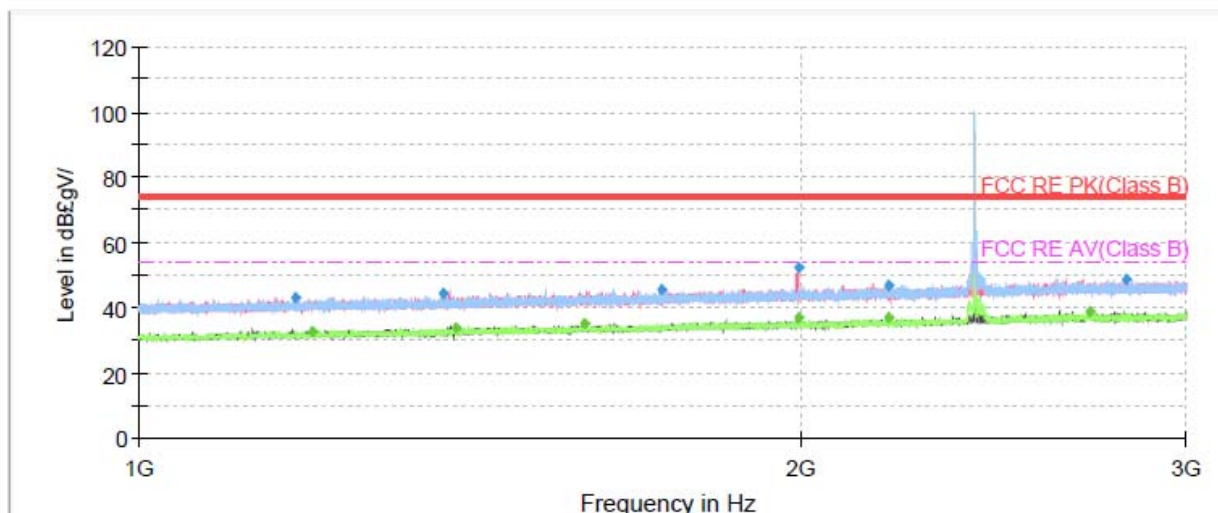


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3724.00	41.10	---	74.00	32.90	200.0	V	44.00	-5
4028.50	---	31.78	54.00	22.22	100.0	H	219.00	-4
4803.50	---	37.46	54.00	16.54	200.0	H	214.00	-2
4803.50	43.06	---	74.00	30.94	200.0	H	214.00	-2
5976.50	---	37.03	54.00	16.97	100.0	V	240.00	0
5976.50	56.46	---	74.00	17.54	100.0	V	240.00	0
7080.50	43.32	---	74.00	30.68	200.0	V	0.00	1
7398.00	---	34.52	54.00	19.48	200.0	V	52.00	1
8527.00	46.02	---	74.00	27.98	200.0	V	123.00	4
9236.00	---	36.00	54.00	18.00	200.0	V	235.00	3
13291.50	---	38.77	54.00	15.23	100.0	H	236.00	9
13301.50	48.58	---	74.00	25.42	200.0	H	214.00	9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE-Channel 19

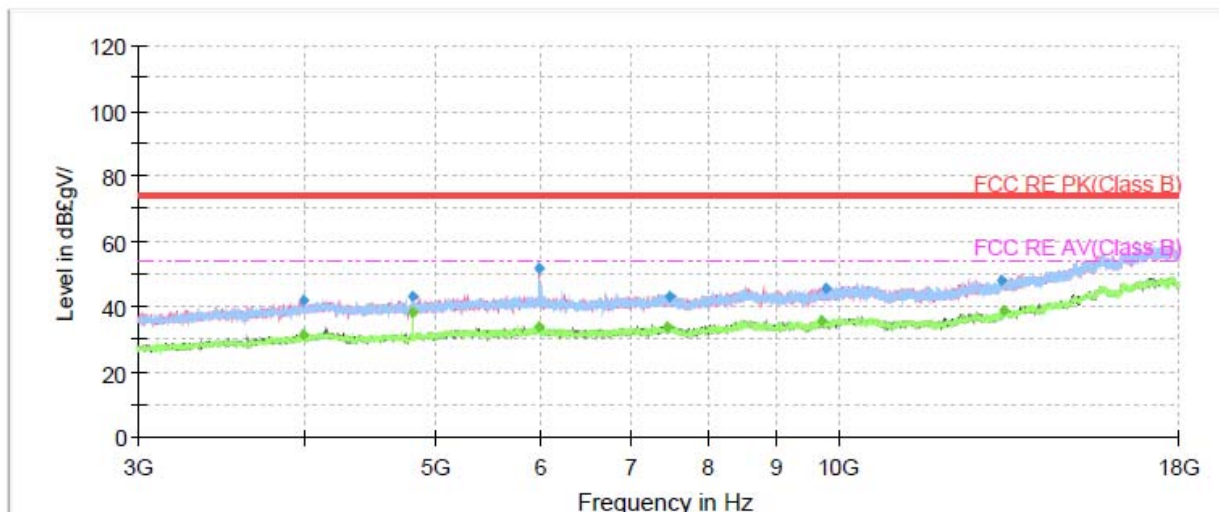


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1178.27	43.11	---	74.00	30.89	200.0	V	200.00	-8
1199.40	---	32.71	54.00	21.29	200.0	V	65.00	-8
1374.33	44.11	---	74.00	29.89	200.0	H	56.00	-6
1395.27	---	33.75	54.00	20.25	200.0	H	12.00	-6
1596.40	---	35.10	54.00	18.90	200.0	V	139.00	-5
1730.67	45.42	---	74.00	28.58	100.0	H	0.00	-4
1995.47	52.27	---	74.00	21.73	200.0	V	193.00	-3
1995.47	---	36.90	54.00	17.10	200.0	V	193.00	-3
2194.20	46.74	---	74.00	27.26	200.0	V	260.00	-2
2195.13	---	36.96	54.00	17.04	200.0	V	146.00	-2
2708.93	---	38.56	54.00	15.44	200.0	V	7.00	1
2814.07	48.45	---	74.00	25.55	200.0	V	131.00	1

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

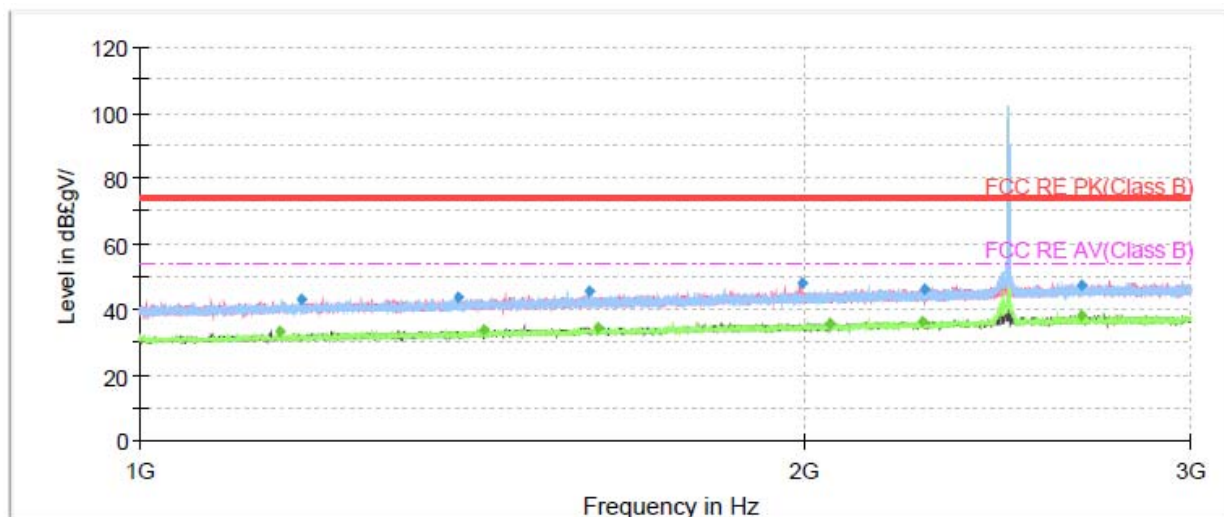


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3985.00	41.86	---	74.00	32.14	100.0	V	247.00	-4
3991.50	---	31.47	54.00	22.53	200.0	V	153.00	-4
4803.50	---	37.87	54.00	16.13	100.0	H	219.00	-2
4804.50	43.30	---	74.00	30.70	100.0	H	211.00	-2
5985.50	---	33.87	54.00	20.13	100.0	H	268.00	0
5986.00	51.65	---	74.00	22.35	100.0	V	231.00	0
7468.50	---	34.04	54.00	19.96	200.0	V	65.00	1
7477.50	43.33	---	74.00	30.67	200.0	V	81.00	1
9713.50	---	35.83	54.00	18.17	100.0	V	279.00	4
9785.50	45.84	---	74.00	28.16	200.0	H	269.00	4
13240.00	48.24	---	74.00	25.76	100.0	V	350.00	9
13284.00	---	38.91	54.00	15.09	200.0	H	32.00	9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE-Channel 39

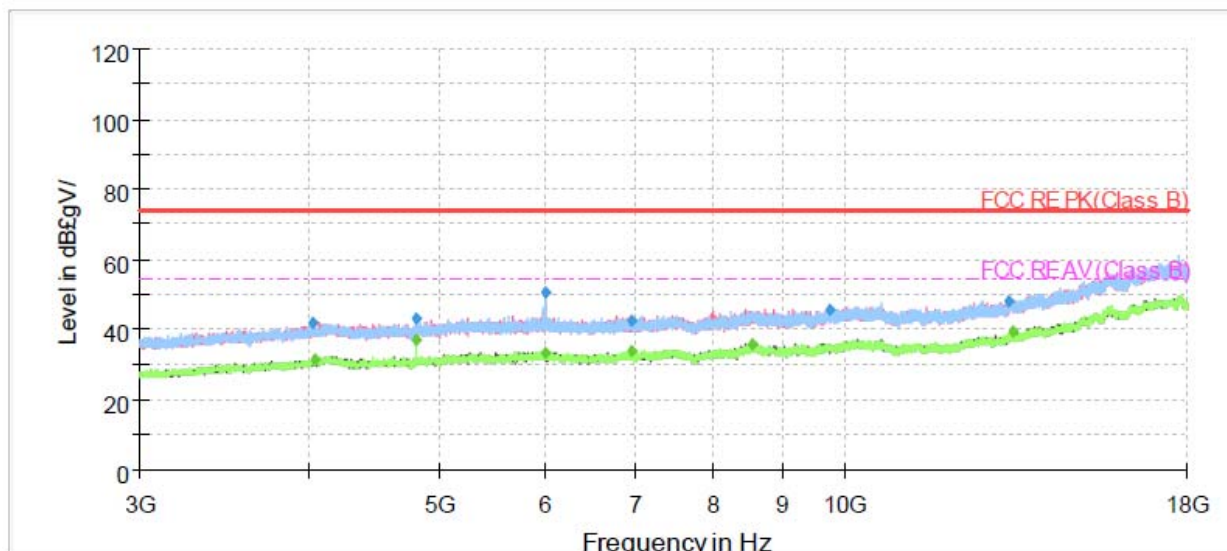


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1157.27	---	33.01	54.00	20.99	100.0	V	207.00	-8
1183.33	43.18	---	74.00	30.82	100.0	V	67.00	-8
1394.00	43.42	---	74.00	30.58	200.0	V	213.00	-6
1433.60	---	33.90	54.00	20.10	200.0	V	346.00	-6
1599.40	45.63	---	74.00	28.37	100.0	V	177.00	-5
1613.13	---	34.73	54.00	19.27	200.0	V	288.00	-5
1996.60	47.72	---	74.00	26.28	100.0	V	1.00	-3
2054.73	---	35.99	54.00	18.01	200.0	V	296.00	-3
2264.47	---	36.58	54.00	17.42	100.0	V	295.00	-2
2269.60	46.29	---	74.00	27.71	100.0	V	343.00	-2
2673.60	47.57	---	74.00	26.43	100.0	V	0.00	0
2676.27	---	38.43	54.00	15.57	100.0	V	147.00	0

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)



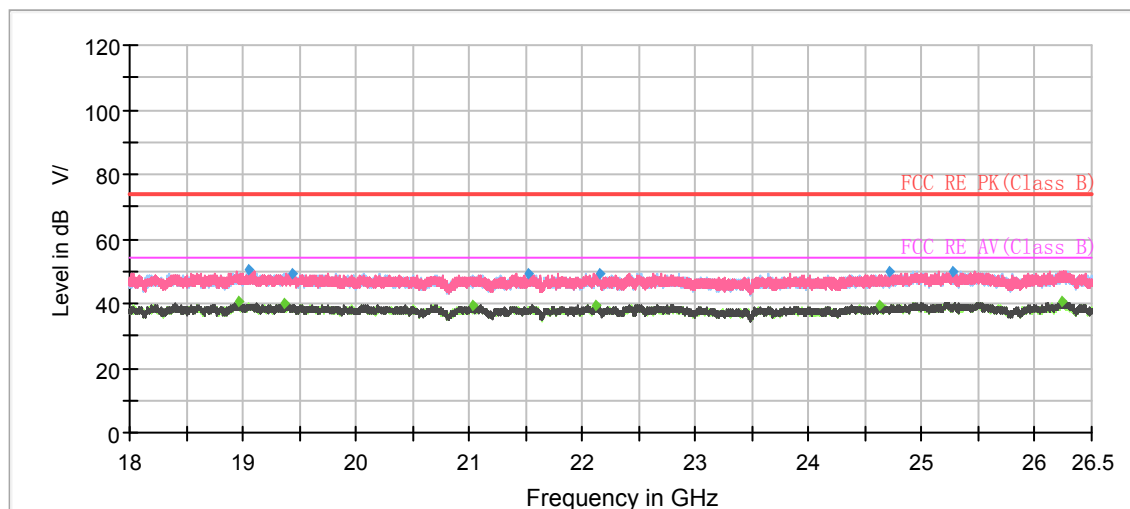
Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4032.50	41.80	---	74.00	32.20	200.0	H	206.00	-4
4043.50	---	31.38	54.00	22.62	100.0	V	115.00	-3
4803.50	43.21	---	74.00	30.79	200.0	H	214.00	-2
4804.00	---	37.18	54.00	16.82	100.0	H	212.00	-2
5989.50	50.38	---	74.00	23.62	100.0	H	237.00	0
5991.50	---	33.39	54.00	20.61	100.0	H	0.00	0
6941.50	---	33.87	54.00	20.13	200.0	H	317.00	1
6952.00	42.72	---	74.00	31.28	100.0	V	0.00	1
8550.00	---	35.90	54.00	18.10	200.0	V	211.00	4
9768.00	45.56	---	74.00	28.44	100.0	H	12.00	4
13270.00	48.10	---	74.00	25.90	100.0	H	27.00	9
13344.00	---	39.14	54.00	14.86	100.0	H	0.00	9

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11n (HT40) CH6 and Bluetooth LE-Channel 39 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Wi-Fi 2.4G

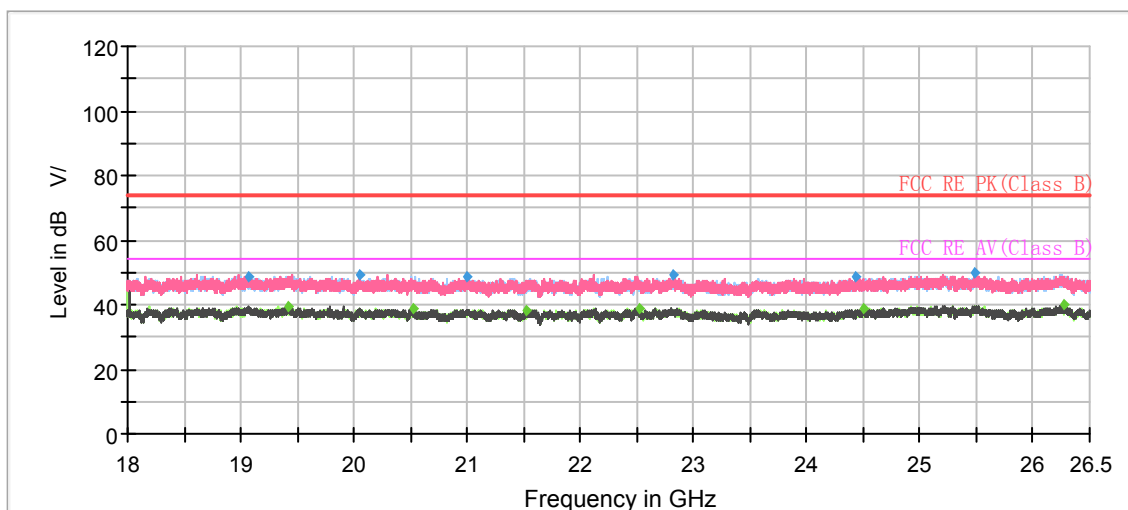


Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18956.250000	---	40.38	54.00	13.62	200.0	V	88.0	-1
19052.300000	50.22	---	74.00	23.78	200.0	H	158.0	-1
19359.716667	---	39.74	54.00	14.26	100.0	V	38.0	-1
19441.316667	49.53	---	74.00	24.47	100.0	V	177.0	-1
21030.816667	---	39.48	54.00	14.52	200.0	H	86.0	0
21526.650000	49.19	---	74.00	24.81	200.0	V	0.0	0
22114.283333	---	39.60	54.00	14.40	200.0	V	197.0	1
22149.700000	49.25	---	74.00	24.75	200.0	H	96.0	1
24633.116667	---	39.53	54.00	14.47	100.0	H	295.0	3
24719.533333	49.75	---	74.00	24.25	200.0	H	302.0	3
25272.316667	50.07	---	74.00	23.93	100.0	H	105.0	3
26232.250000	---	40.42	54.00	13.58	200.0	V	221.0	3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

Bluetooth LE



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19072.700000	48.45	---	74.00	25.55	200.0	H	236.0	-1
19411.283333	---	39.50	54.00	14.50	200.0	V	199.0	-1
20056.433333	49.19	---	74.00	24.81	100.0	V	301.0	-1
20526.766667	---	38.68	54.00	15.32	100.0	H	345.0	0
20999.650000	48.56	---	74.00	25.44	200.0	V	359.0	0
21529.200000	---	38.09	54.00	15.91	200.0	H	162.0	0
22516.616667	---	39.07	54.00	14.93	100.0	V	102.0	2
22820.633333	49.03	---	74.00	24.97	200.0	H	22.0	2
24437.333333	48.67	---	74.00	25.33	100.0	V	4.0	3
24509.300000	---	38.93	54.00	15.07	100.0	V	41.0	3
25490.766667	49.55	---	74.00	24.45	100.0	H	321.0	3
26277.016667	---	39.69	54.00	14.31	200.0	H	0.0	3

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

5.7. Conducted Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

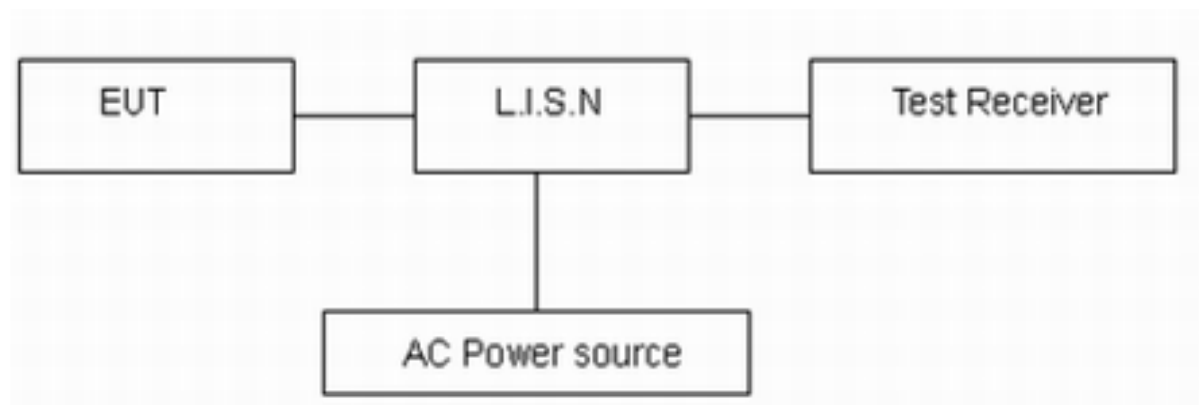
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

*: Decreases with the logarithm of the frequency.

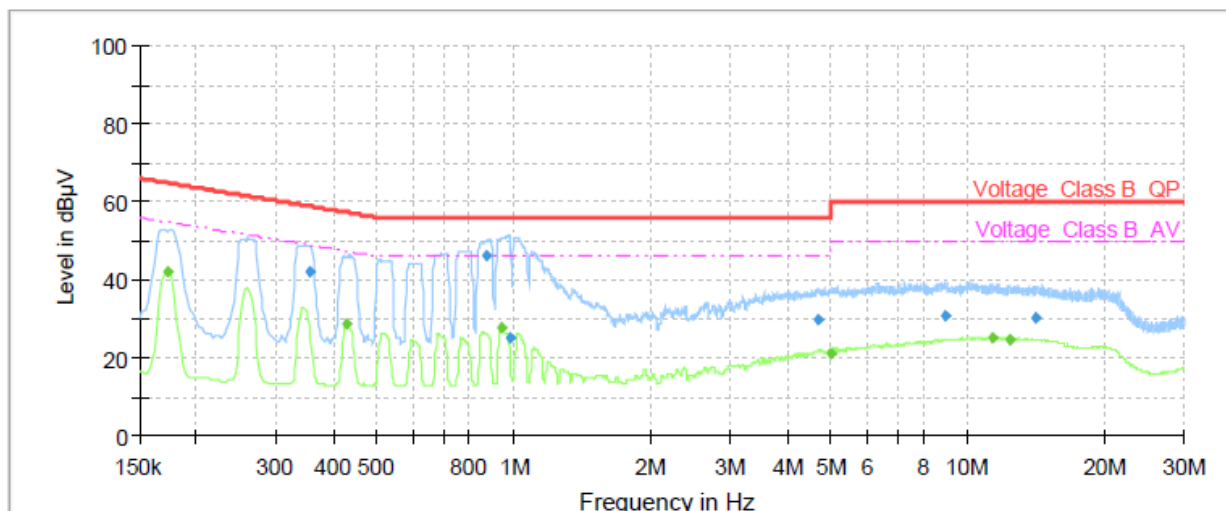
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes (WIFI 2.4G /Bluetooth LE) with all channels, 802.11n (HT40) CH6 and Bluetooth LE-Channel 39 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

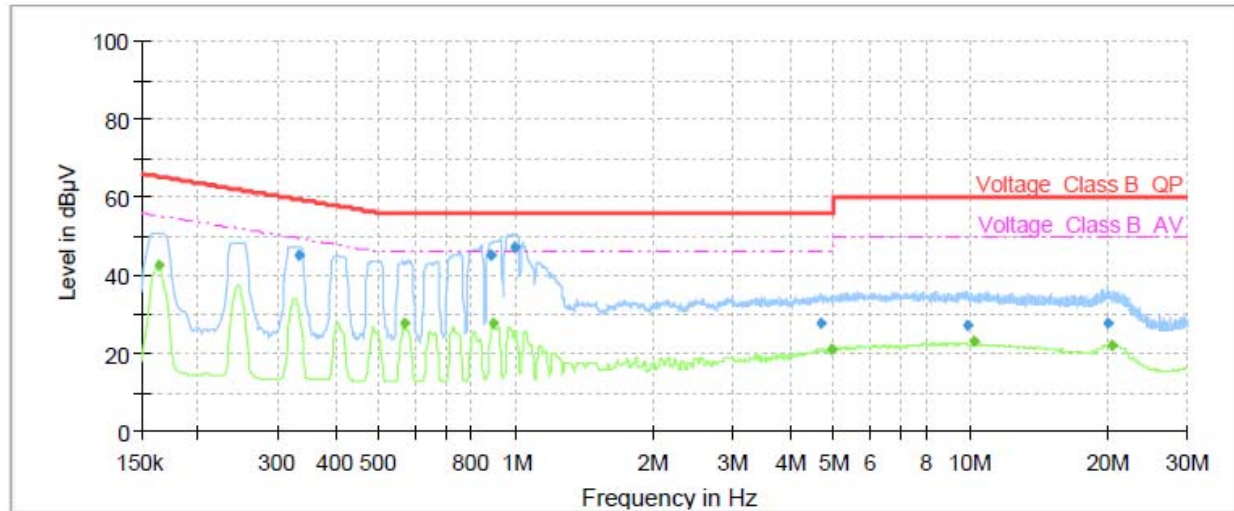
Wi-Fi 2.4G



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.17	---	41.98	54.84	12.86	70.0	9.000	L1	ON	21
0.35	42.21	---	58.85	16.64	70.0	9.000	L1	ON	21
0.43	---	28.48	47.27	18.79	70.0	9.000	L1	ON	20
0.87	45.92	---	56.00	10.08	70.0	9.000	L1	ON	20
0.94	---	27.45	46.00	18.55	70.0	9.000	L1	ON	20
0.98	25.16	---	56.00	30.84	70.0	9.000	L1	ON	20
4.68	29.99	---	56.00	26.01	70.0	9.000	L1	ON	19
4.98	---	20.90	46.00	25.10	70.0	9.000	L1	ON	19
8.94	31.01	---	60.00	28.99	70.0	9.000	L1	ON	20
11.29	---	24.94	50.00	25.06	70.0	9.000	L1	ON	20
12.41	---	24.70	50.00	25.30	70.0	9.000	L1	ON	20
14.14	30.38	---	60.00	29.62	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

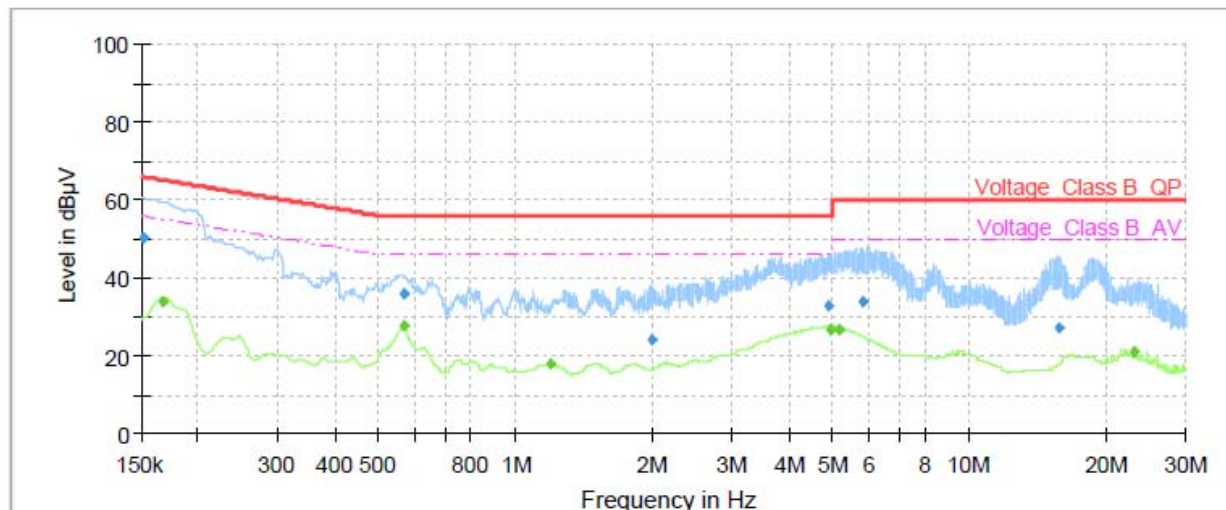


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	---	42.37	55.28	12.91	70.0	9.000	N	ON	21
0.33	44.96	---	59.34	14.38	70.0	9.000	N	ON	21
0.57	---	27.46	46.00	18.54	70.0	9.000	N	ON	20
0.88	45.07	---	56.00	10.93	70.0	9.000	N	ON	20
0.89	---	27.93	46.00	18.07	70.0	9.000	N	ON	20
0.99	47.30	---	56.00	8.70	70.0	9.000	N	ON	20
4.70	27.81	---	56.00	28.19	70.0	9.000	N	ON	19
4.94	---	20.95	46.00	25.05	70.0	9.000	N	ON	19
9.81	27.12	---	60.00	32.88	70.0	9.000	N	ON	20
10.14	---	22.91	50.00	27.09	70.0	9.000	N	ON	20
20.09	27.50	---	60.00	32.50	70.0	9.000	N	ON	20
20.42	---	22.10	50.00	27.90	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

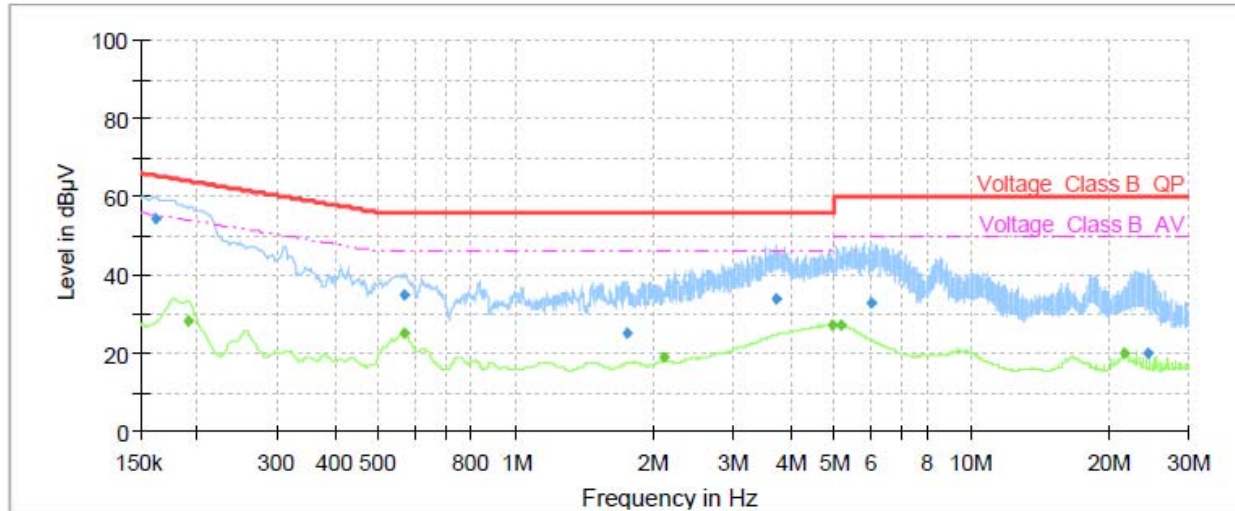
Bluetooth LE



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	50.08	---	65.88	15.80	70.0	9.000	L1	ON	21
0.17	---	33.69	55.06	21.37	70.0	9.000	L1	ON	21
0.57	---	27.53	46.00	18.47	70.0	9.000	L1	ON	20
0.57	36.13	---	56.00	19.87	70.0	9.000	L1	ON	20
1.20	---	18.06	46.00	27.94	70.0	9.000	L1	ON	20
2.00	24.23	---	56.00	31.77	70.0	9.000	L1	ON	20
4.89	33.02	---	56.00	22.98	70.0	9.000	L1	ON	19
4.94	---	26.89	46.00	19.11	70.0	9.000	L1	ON	19
5.16	---	26.69	50.00	23.31	70.0	9.000	L1	ON	19
5.81	33.90	---	60.00	26.10	70.0	9.000	L1	ON	19
15.75	27.04	---	60.00	32.96	70.0	9.000	L1	ON	20
23.12	---	21.26	50.00	28.74	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	54.27	---	65.40	11.13	70.0	9.000	N	ON	21
0.19	---	27.98	54.02	26.04	70.0	9.000	N	ON	21
0.57	---	25.14	46.00	20.86	70.0	9.000	N	ON	20
0.57	35.08	---	56.00	20.92	70.0	9.000	N	ON	20
1.75	24.94	---	56.00	31.06	70.0	9.000	N	ON	20
2.11	---	18.91	46.00	27.09	70.0	9.000	N	ON	20
3.71	33.95	---	56.00	22.05	70.0	9.000	N	ON	19
4.95	---	27.22	46.00	18.78	70.0	9.000	N	ON	19
5.18	---	27.19	50.00	22.81	70.0	9.000	N	ON	19
6.01	32.80	---	60.00	27.20	70.0	9.000	N	ON	20
21.71	---	19.93	50.00	30.07	70.0	9.000	N	ON	20
24.47	20.09	---	60.00	39.91	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
EMI Test Receiver	R&S	ESCI7	100936	2021-12-12	2022-12-11
Signal Analyzer	R&S	FSV40	100815	2021-05-15	2022-05-14
TRILOG Broadband Antenna	SCHWARZBECK	9163	1023	2021-06-07	2024-06-06
Horn Antenna	R&S	HF907	102723	2021-07-26	2024-07-25
Horn Antenna	ETS-Lindgren	3160-09	00102643	2020-10-10	2023-10-09
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	101171	2020-12-13	2022-12-12
EMI Test Receiver	R&S	ESR	101667	2021-05-15	2022-05-14
Software	R&S	EMC32	10.35.10	/	/
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2021-12-12	2022-12-11
Power probe	R&S	NRP18S	101954	2021-05-15	2022-05-14
Climate Chamber	ESPEC	SU-242	93000506	2021-12-12	2022-12-11

*****END OF REPORT*****



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.