

ANNEX A: Test Result

1. Unwanted Emission

There is more than one Adapters, each one should be applied throughout the compliance test respectively, and however, only the worst case (Adapter 1) will be recorded in this report.

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in the following table and the loop antenna is coplanar, the others are vertical and horizontal. and the worst case was recorded.

Wi-Fi 2.4GHz	Z axis
Bluetooth LE	X axis

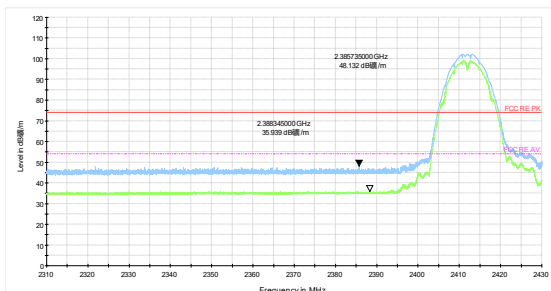
1.1. Wi-Fi 2.4GHz

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

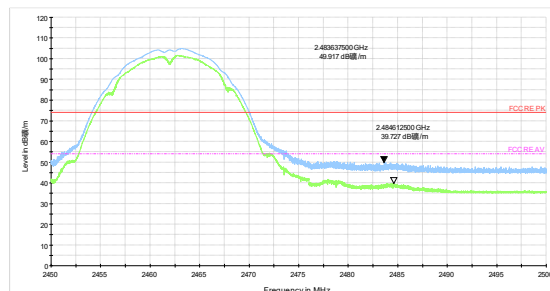
A symbol ($\text{dB}\mu\text{V}/\text{m}$) in the test plot below means ($\text{dB}\mu\text{V}/\text{m}$)

Configuration 1:

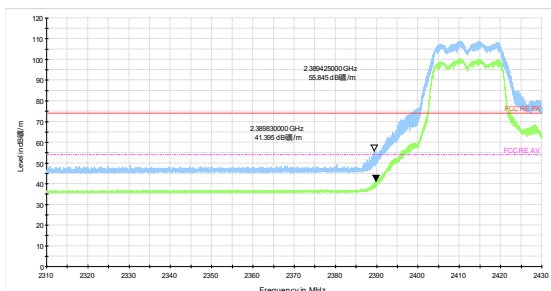
The signal beyond the limit is carrier.



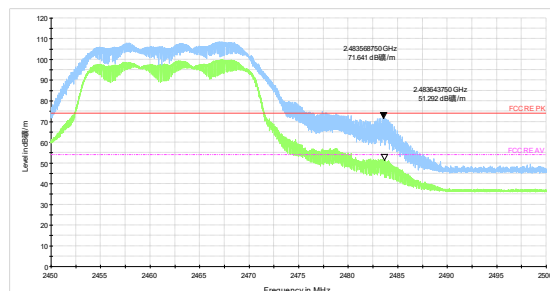
802.11b-Channel 1 Peak+ Average



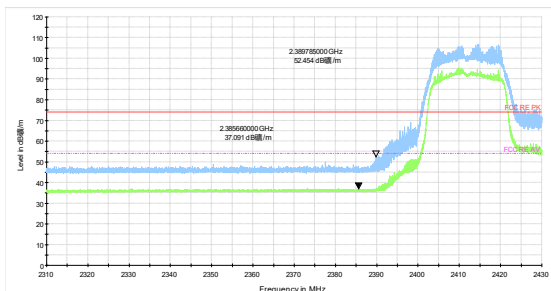
802.11b-Channel 11 Peak+ Average



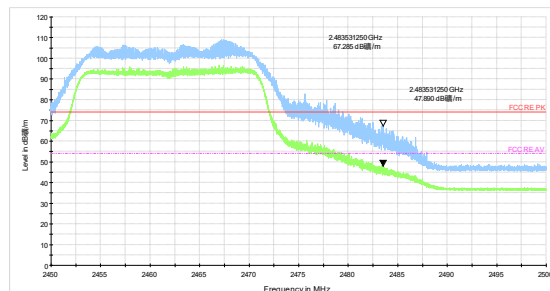
802.11g-Channel 1 Peak+ Average



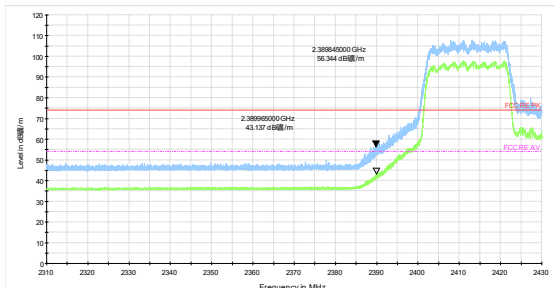
802.11g-Channel 11 Peak+ Average



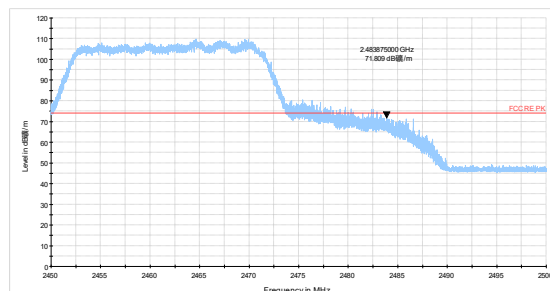
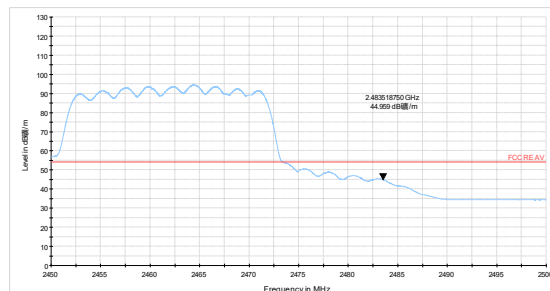
802.11n HT20-Channel 1 Peak+ Average



802.11n HT20-Channel 11 Peak+ Average

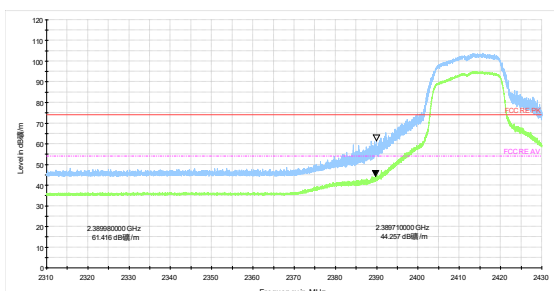


802.11ax HE20-Channel 1 Peak+ Average

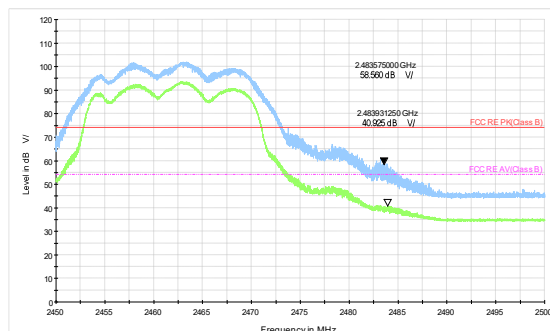


802.11ax HE20-Channel 11 Peak+ Average

Configuration 3:

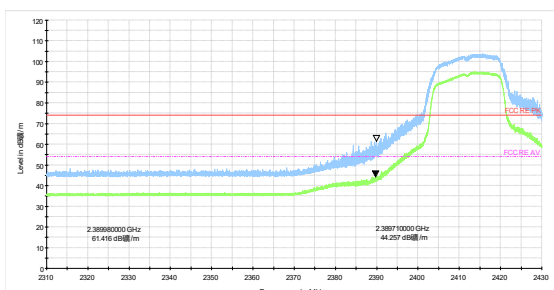


802.11g-Channel 1 Peak+ Average

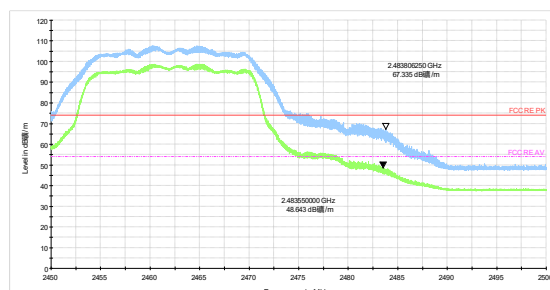


802.11g-Channel 11 Peak+ Average

Configuration 4:



802.11g-Channel 1 Peak+ Average



802.11g-Channel 11 Peak+ Average

Result of RE

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

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol (dB μ V/m) in the test plot below means (dB μ V/m)**
4. **The following graphs display the maximum values of coaxial and coplanar for 9k-30MHz; horizontal and vertical for above 30MHz by software.**
5. **For below 1GHz**

~ QP Level @Spectrum Overview H
 ~ QP Level @Spectrum Overview V
 ◆ QP Level @Final Results
 — QP Limit

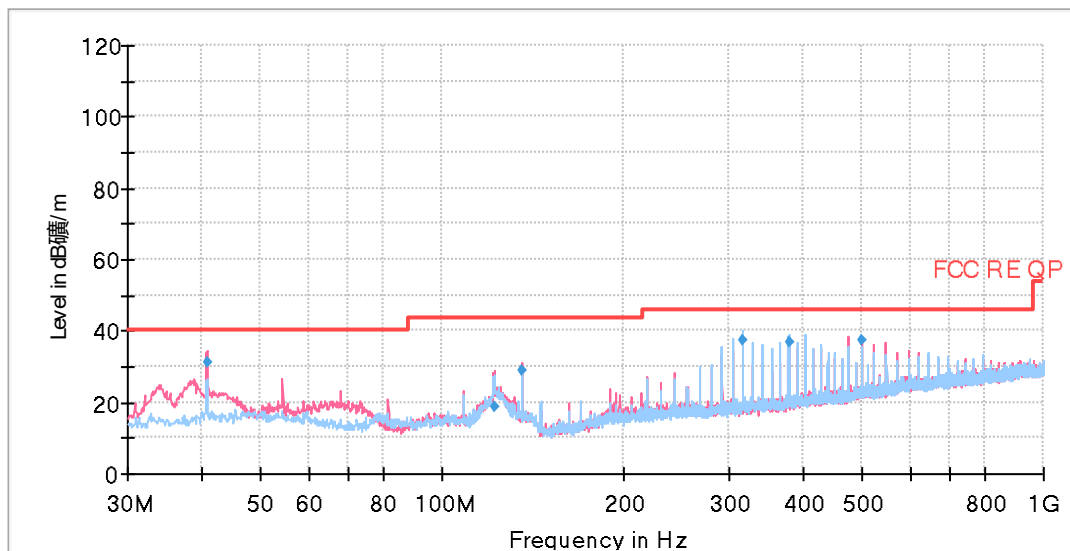
For above 1GHz

~ PK Level @Spectrum Overview H
 ~ PK Level @Spectrum Overview V
 ◆ PK Level @Final Results
 — PK Limit
~ AVG Level @Spectrum Overview H
 ~ AVG Level @Spectrum Overview V
 ◆ AVG Level @Final Results
 — AVG Limit

Continuous TX mode:

Configuration 1:

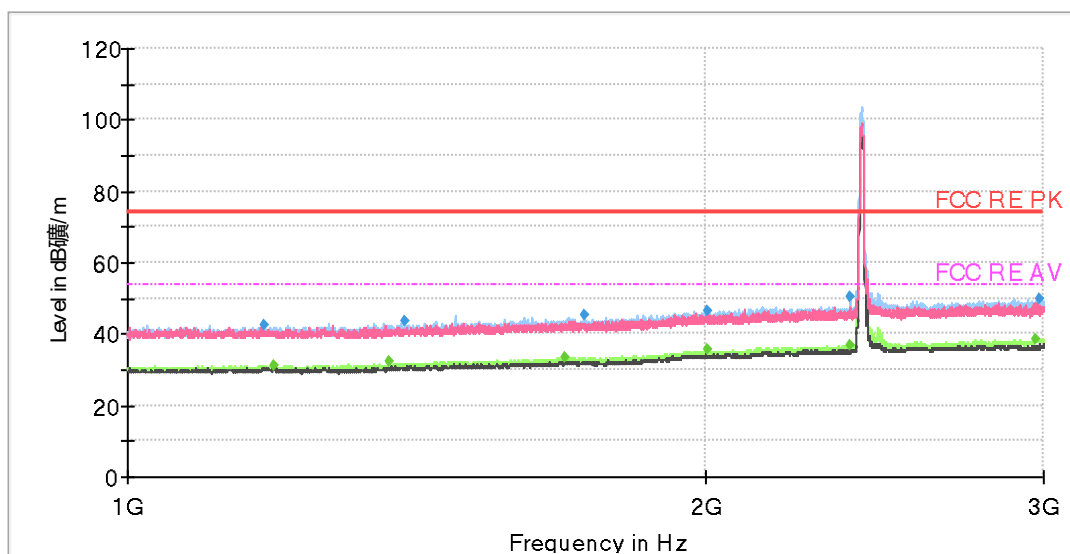
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
40.67	31.02	40.00	8.98	100.0	V	347.00	19
121.91	18.60	43.50	24.90	176.0	V	188.00	17
135.61	28.79	43.50	14.71	125.0	V	180.00	15
316.27	37.34	46.00	8.66	100.0	H	218.00	21
377.02	36.72	46.00	9.28	100.0	H	108.00	23
498.87	37.16	46.00	8.84	101.0	V	76.00	25

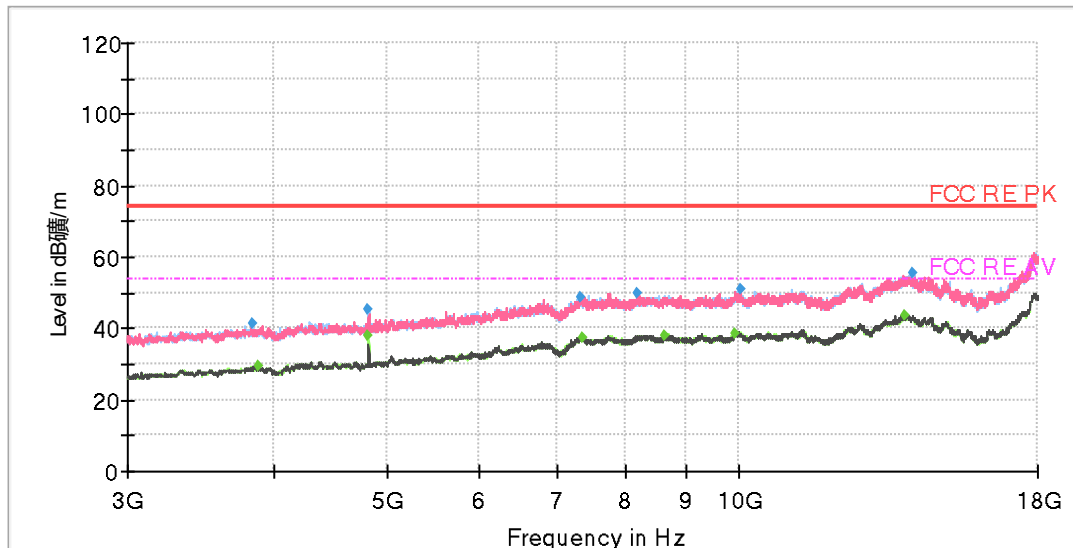
802.11b CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

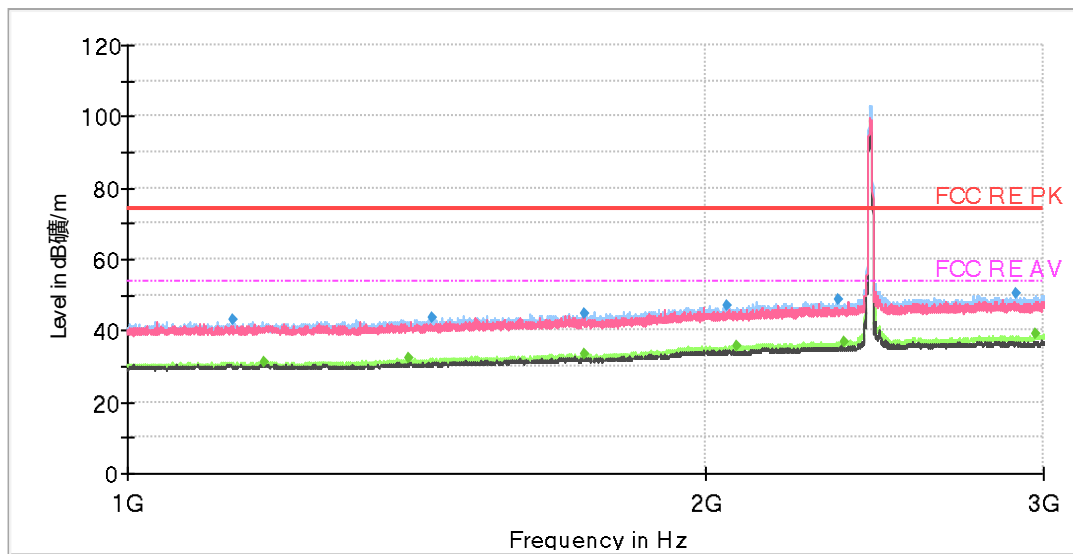
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1178.50	42.36	---	74.00	31.64	500.00	100.0	H	354.00	-4
1191.50	---	31.29	54.00	22.71	500.00	100.0	H	345.00	-4
1369.25	---	32.14	54.00	21.86	500.00	100.0	H	356.00	-3
1395.25	43.32	---	74.00	30.68	500.00	100.0	H	339.00	-3
1690.00	---	33.59	54.00	20.41	500.00	100.0	H	0.00	-2
1730.25	45.21	---	74.00	28.79	500.00	100.0	H	284.00	-2
2004.75	46.46	---	74.00	27.54	500.00	100.0	V	246.00	1
2005.25	---	35.67	54.00	18.33	500.00	100.0	H	358.00	1
2376.50	---	36.88	54.00	17.12	500.00	100.0	H	339.00	2
2378.75	50.42	---	74.00	23.58	500.00	200.0	H	9.00	2
2971.00	---	38.66	54.00	15.34	500.00	100.0	H	359.00	4
2982.50	50.02	---	74.00	23.98	500.00	100.0	H	339.00	4



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3843.75	41.09	---	74.00	32.91	500.00	200.0	H	0.00	-4
3888.75	---	29.36	54.00	24.64	500.00	100.0	H	0.00	-4
4822.50	---	37.89	54.00	16.11	500.00	100.0	H	62.00	-2
4822.50	45.39	---	74.00	28.61	500.00	100.0	H	62.00	-2
7325.63	48.75	---	74.00	25.25	500.00	200.0	V	70.00	5
7340.63	---	37.47	54.00	16.53	500.00	100.0	V	346.00	5
8184.38	49.62	---	74.00	24.38	500.00	200.0	V	0.00	7
8630.63	---	38.20	54.00	15.80	500.00	100.0	H	0.00	7
9900.00	---	38.67	54.00	15.33	500.00	100.0	V	293.00	7
10035.00	50.91	---	74.00	23.09	500.00	200.0	V	0.00	7
13867.50	---	43.54	54.00	10.46	500.00	200.0	H	235.00	12
14071.88	55.41	---	74.00	18.59	500.00	100.0	H	8.00	12

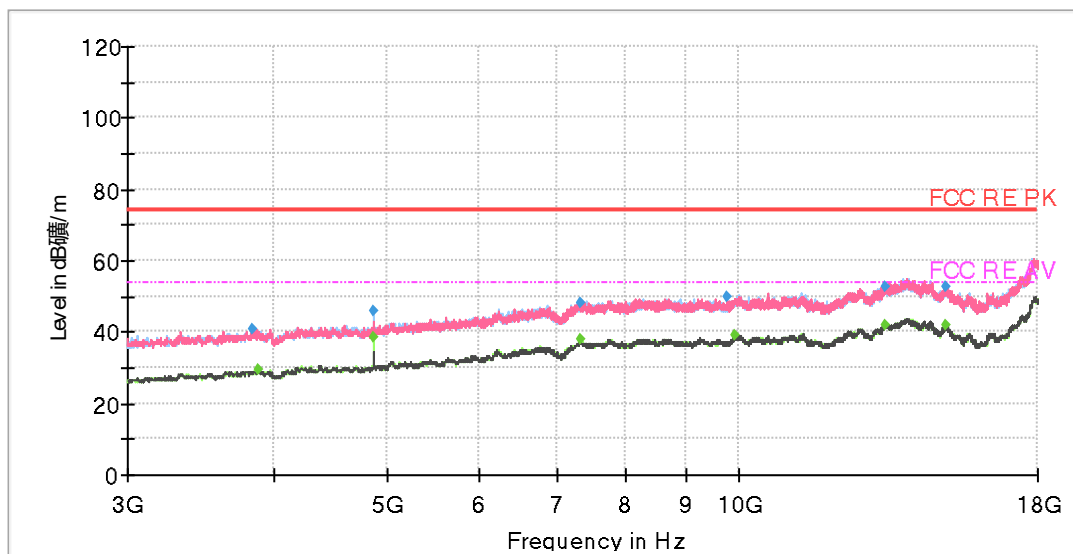
802.11b CH6



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1135.00	42.75	---	74.00	31.25	500.00	100.0	H	346.00	-4
1179.50	---	31.39	54.00	22.61	500.00	100.0	H	358.00	-4
1402.75	---	32.11	54.00	21.89	500.00	200.0	H	8.00	-3
1441.50	43.34	---	74.00	30.66	500.00	100.0	H	341.00	-3
1729.00	44.53	---	74.00	29.47	500.00	100.0	H	358.00	-2
1731.75	---	33.52	54.00	20.48	500.00	100.0	H	274.00	-2
2051.00	46.89	---	74.00	27.11	500.00	100.0	H	319.00	1
2075.50	---	35.82	54.00	18.18	500.00	200.0	H	3.00	0
2348.25	48.75	---	74.00	25.25	500.00	200.0	H	8.00	2
2360.25	---	36.82	54.00	17.18	500.00	200.0	H	0.00	2
2900.50	50.22	---	74.00	23.78	500.00	200.0	H	0.00	3
2974.50	---	38.99	54.00	15.01	500.00	200.0	H	146.00	4

Note: The signal beyond the limit is carrier.

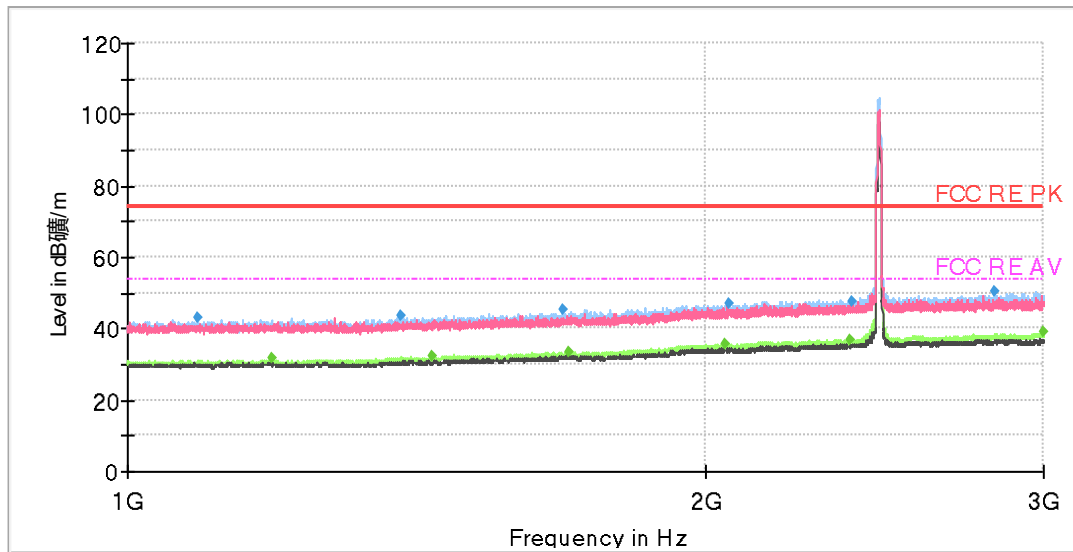
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3830.63	40.68	---	74.00	33.32	500.00	200.0	V	15.00	-4
3886.88	---	29.37	54.00	24.63	500.00	200.0	V	0.00	-4
4873.13	---	38.77	54.00	15.23	500.00	100.0	H	86.00	-1
4873.13	45.69	---	74.00	28.31	500.00	100.0	H	86.00	-1
7308.75	---	37.69	54.00	16.31	500.00	100.0	V	270.00	5
7316.25	48.23	---	74.00	25.77	500.00	200.0	H	341.00	5
9774.38	49.60	---	74.00	24.40	500.00	100.0	H	70.00	7
9903.75	---	38.81	54.00	15.19	500.00	100.0	V	270.00	7
13342.50	52.79	---	74.00	21.21	500.00	200.0	H	265.00	11
13346.25	---	41.97	54.00	12.03	500.00	100.0	V	224.00	11
15022.50	---	41.63	54.00	12.37	500.00	100.0	V	359.00	10
15045.00	52.82	---	74.00	21.18	500.00	100.0	V	359.00	10

Radiates Emission from 3GHz to 18GHz

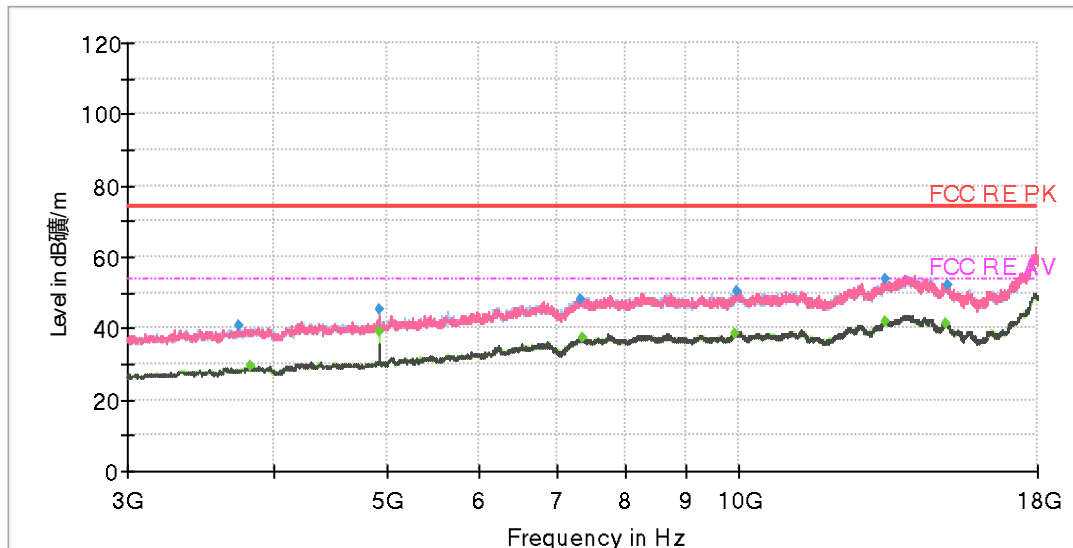
802.11b CH11



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1088.50	42.96	---	74.00	31.04	500.00	200.0	H	87.00	-5
1188.00	---	31.61	54.00	22.39	500.00	100.0	H	346.00	-4
1388.00	43.40	---	74.00	30.60	500.00	200.0	H	41.00	-3
1440.25	---	32.21	54.00	21.79	500.00	200.0	H	0.00	-3
1684.25	45.41	---	74.00	28.59	500.00	200.0	H	0.00	-2
1697.50	---	33.52	54.00	20.48	500.00	100.0	H	357.00	-2
2046.25	---	35.76	54.00	18.24	500.00	100.0	H	351.00	1
2056.50	46.94	---	74.00	27.07	500.00	100.0	H	346.00	1
2377.50	---	36.58	54.00	17.42	500.00	200.0	H	73.00	2
2385.50	47.74	---	74.00	26.26	500.00	100.0	H	0.00	2
2828.00	50.32	---	74.00	23.68	500.00	200.0	H	1.00	3
2999.75	---	39.17	54.00	14.83	500.00	200.0	H	116.00	4

Note: The signal beyond the limit is carrier.

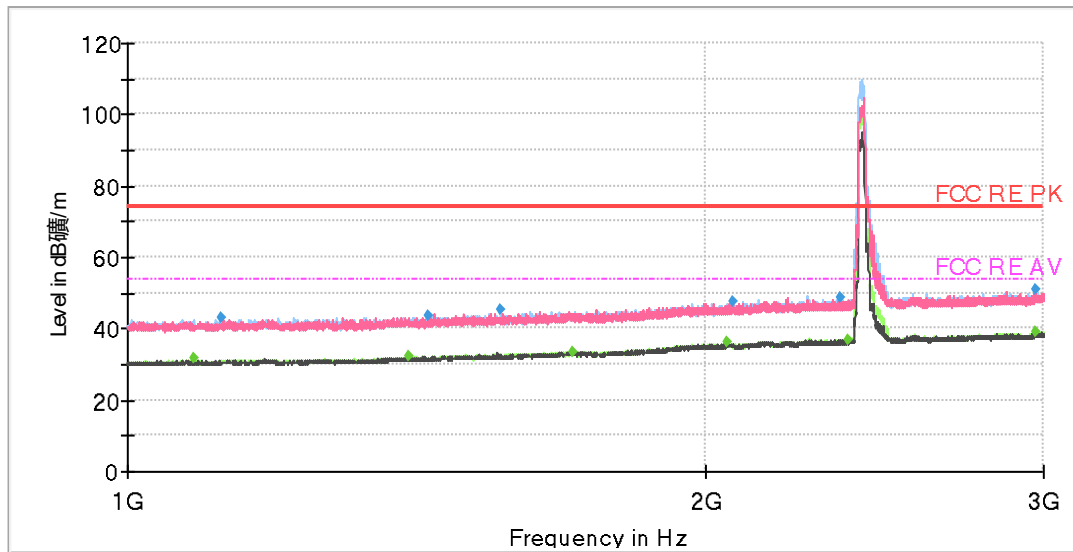
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3740.63	40.51	---	74.00	33.49	500.00	100.0	H	1.00	-5
3823.13	---	29.40	54.00	24.60	500.00	200.0	H	359.00	-5
4923.75	---	39.18	54.00	14.82	500.00	100.0	H	84.00	-1
4923.75	45.44	---	74.00	28.56	500.00	100.0	H	84.00	-1
7333.13	48.26	---	74.00	25.74	500.00	200.0	V	52.00	5
7342.50	---	37.45	54.00	16.55	500.00	100.0	V	0.00	5
9905.63	---	38.51	54.00	15.49	500.00	200.0	H	349.00	7
9961.88	50.36	---	74.00	23.64	500.00	100.0	V	358.00	7
13336.88	---	41.98	54.00	12.02	500.00	200.0	H	64.00	11
13350.00	53.87	---	74.00	20.13	500.00	200.0	H	349.00	11
15045.00	---	41.54	54.00	12.46	500.00	100.0	H	204.00	10
15097.50	52.34	---	74.00	21.66	500.00	100.0	H	297.00	9

Radiates Emission from 3GHz to 18GHz

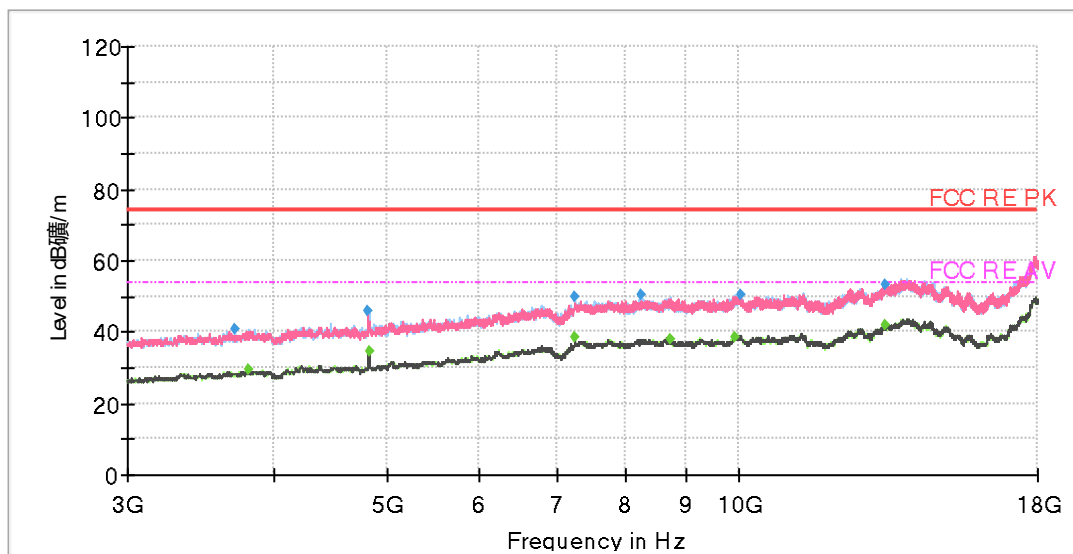
802.11g CH1



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1083.25	---	31.59	54.00	22.41	500.00	100.0	H	358.00	-5
1119.25	43.02	---	74.00	30.98	500.00	200.0	H	90.00	-4
1402.75	---	32.55	54.00	21.45	500.00	200.0	H	1.00	-3
1434.00	43.43	---	74.00	30.57	500.00	100.0	H	240.00	-3
1563.00	45.05	---	74.00	28.95	500.00	200.0	H	0.00	-2
1706.00	---	33.64	54.00	20.36	500.00	200.0	H	244.00	-2
2054.75	---	36.22	54.00	17.78	500.00	100.0	H	12.00	1
2068.25	47.46	---	74.00	26.54	500.00	200.0	H	284.00	1
2350.25	48.48	---	74.00	25.52	500.00	100.0	V	97.00	2
2373.50	---	37.02	54.00	16.98	500.00	200.0	V	0.00	2
2971.50	---	38.98	54.00	15.02	500.00	200.0	V	185.00	4
2973.25	50.71	---	74.00	23.29	500.00	100.0	H	253.00	4

Note: The signal beyond the limit is carrier.

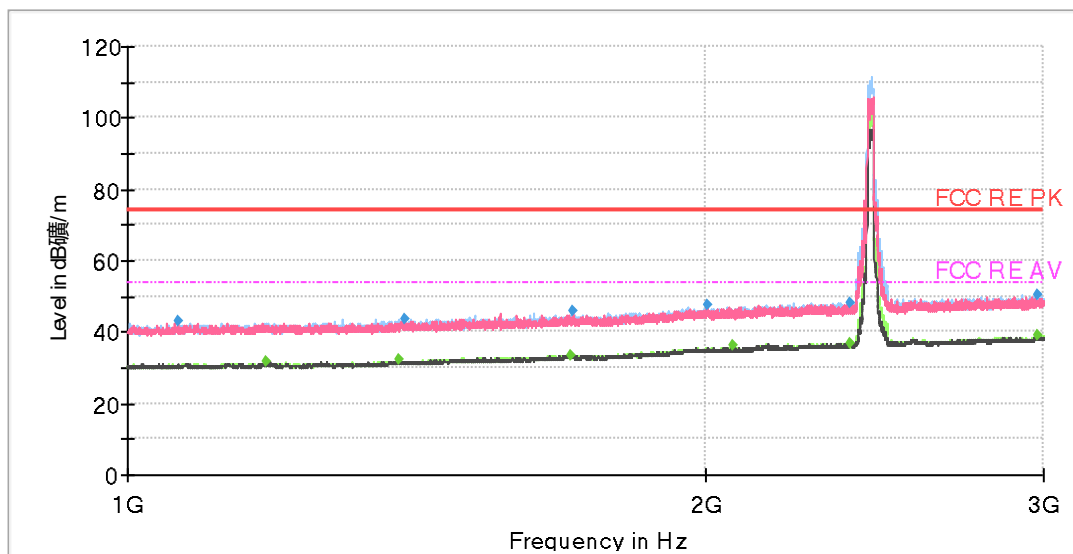
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3710.63	40.85	---	74.00	33.15	500.00	100.0	H	5.00	-5
3800.63	---	29.20	54.00	24.80	500.00	200.0	V	2.00	-5
4820.63	45.75	---	74.00	28.25	500.00	100.0	V	111.00	-2
4826.25	---	34.71	54.00	19.29	500.00	100.0	H	281.00	-2
7237.50	---	38.72	54.00	15.28	500.00	100.0	H	3.00	5
7237.50	49.56	---	74.00	24.44	500.00	100.0	H	3.00	5
8250.00	50.21	---	74.00	23.79	500.00	100.0	H	142.00	6
8730.00	---	37.88	54.00	16.12	500.00	100.0	H	112.00	7
9900.00	---	38.48	54.00	15.52	500.00	200.0	H	338.00	7
10044.38	50.41	---	74.00	23.59	500.00	100.0	V	357.00	7
13344.38	53.39	---	74.00	20.61	500.00	100.0	V	347.00	11
13351.88	---	41.92	54.00	12.08	500.00	200.0	H	357.00	11

Radiates Emission from 3GHz to 18GHz

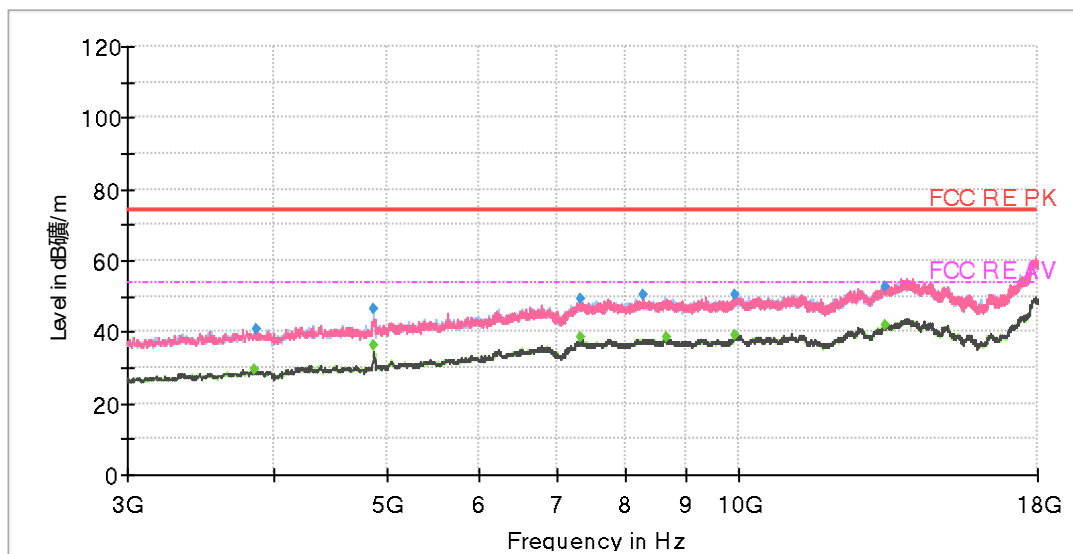
802.11g CH6



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1061.75	42.96	---	74.00	31.04	500.00	200.0	V	0.00	-5
1180.50	---	31.49	54.00	22.51	500.00	200.0	H	0.00	-4
1385.25	---	32.39	54.00	21.61	500.00	200.0	V	264.00	-3
1394.50	43.85	---	74.00	30.15	500.00	100.0	V	2.00	-3
1700.25	---	33.63	54.00	20.37	500.00	100.0	V	0.00	-2
1707.75	45.97	---	74.00	28.03	500.00	200.0	V	358.00	-2
2004.50	47.27	---	74.00	26.73	500.00	200.0	V	290.00	1
2066.50	---	35.95	54.00	18.05	500.00	200.0	H	5.00	1
2379.75	48.22	---	74.00	25.78	500.00	200.0	V	221.00	2
2380.00	---	36.58	54.00	17.42	500.00	200.0	H	104.00	2
2976.25	---	39.06	54.00	14.94	500.00	200.0	V	0.00	4
2981.50	50.34	---	74.00	23.66	500.00	200.0	H	49.00	4

Note: The signal beyond the limit is carrier.

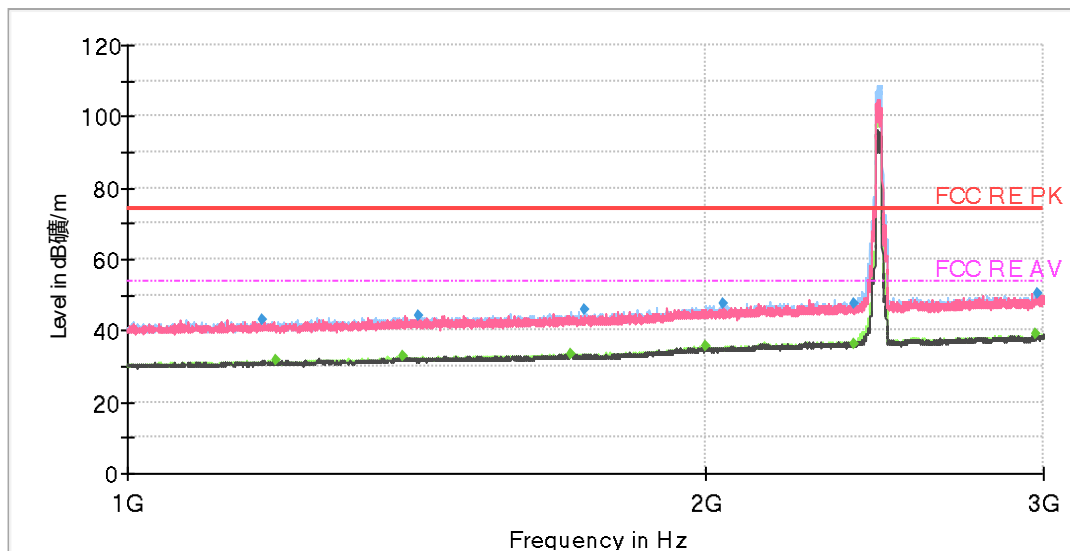
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3853.13	---	29.46	54.00	24.54	500.00	100.0	H	2.00	-4
3873.75	40.62	---	74.00	33.38	500.00	200.0	V	188.00	-4
4873.13	---	36.22	54.00	17.78	500.00	100.0	H	271.00	-1
4873.13	46.20	---	74.00	27.80	500.00	100.0	H	271.00	-1
7312.50	49.50	---	74.00	24.50	500.00	100.0	H	271.00	5
7314.38	---	38.38	54.00	15.62	500.00	100.0	H	1.00	5
8285.63	50.41	---	74.00	23.59	500.00	100.0	V	358.00	6
8655.00	---	38.50	54.00	15.50	500.00	200.0	H	303.00	7
9901.88	---	38.81	54.00	15.19	500.00	200.0	V	50.00	7
9916.88	50.16	---	74.00	23.84	500.00	200.0	H	345.00	7
13310.63	52.58	---	74.00	21.42	500.00	100.0	V	357.00	11
13336.88	---	42.06	54.00	11.94	500.00	200.0	V	0.00	11

Radiates Emission from 3GHz to 18GHz

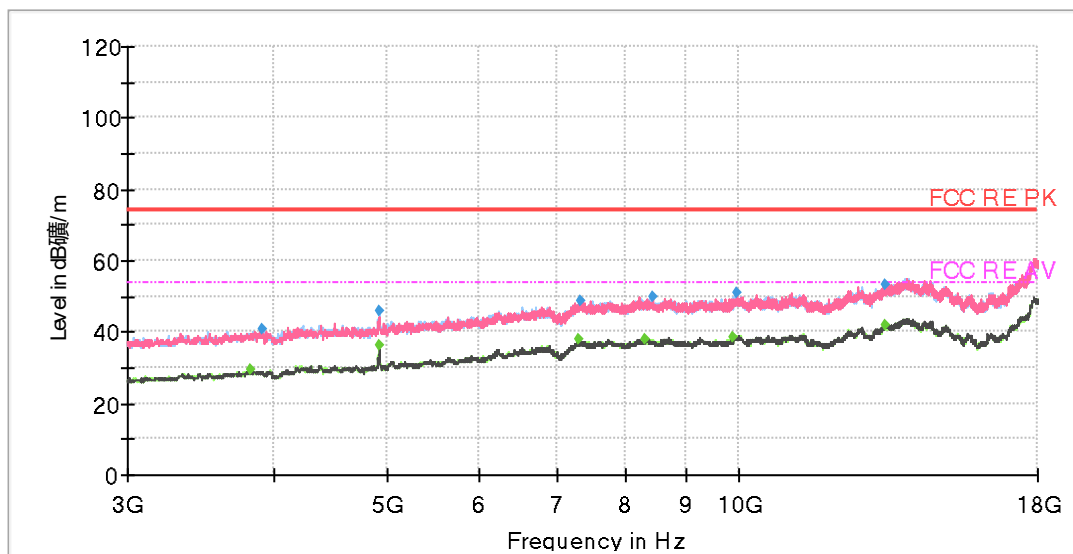
802.11g CH11



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1175.75	43.08	---	74.00	30.92	500.00	100.0	H	358.00	-4
1194.75	---	31.75	54.00	22.25	500.00	200.0	H	157.00	-4
1391.50	---	32.79	54.00	21.21	500.00	100.0	H	252.00	-3
1416.75	44.03	---	74.00	29.97	500.00	100.0	V	5.00	-3
1700.50	---	33.62	54.00	20.38	500.00	100.0	H	314.00	-2
1730.75	45.61	---	74.00	28.39	500.00	100.0	H	356.00	-2
2002.25	---	35.67	54.00	18.33	500.00	200.0	V	339.00	1
2041.00	47.38	---	74.00	26.62	500.00	100.0	H	265.00	0
2387.75	47.67	---	74.00	26.33	500.00	200.0	H	218.00	2
2387.75	---	36.39	54.00	17.61	500.00	200.0	V	358.00	2
2975.25	---	39.19	54.00	14.81	500.00	100.0	H	60.00	4
2981.75	50.38	---	74.00	23.62	500.00	200.0	H	41.00	4

Note: The signal beyond the limit is carrier.

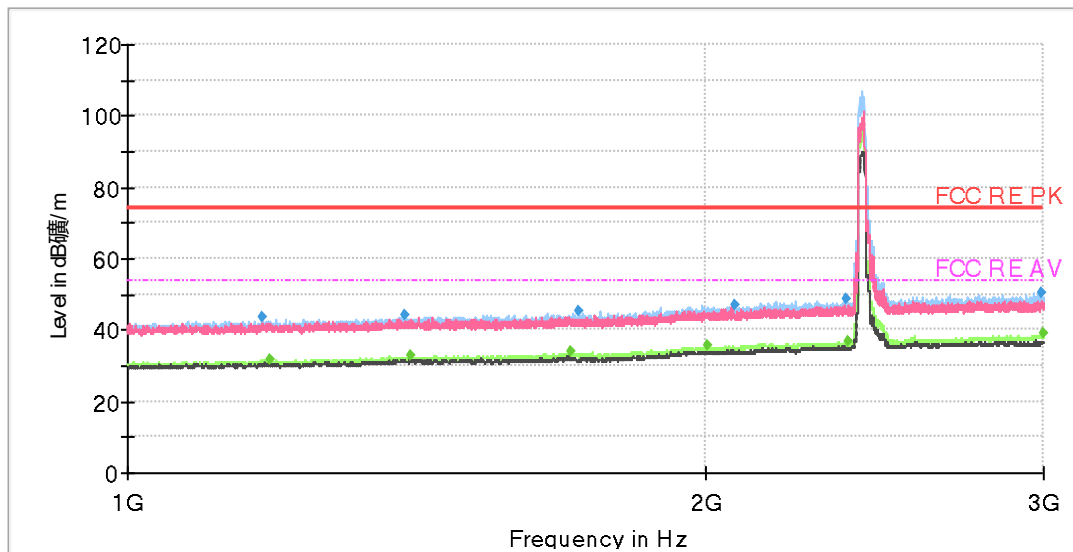
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3823.13	---	29.26	54.00	24.74	500.00	200.0	V	347.00	-5
3907.50	40.63	---	74.00	33.37	500.00	100.0	H	0.00	-4
4921.88	45.77	---	74.00	28.23	500.00	100.0	H	280.00	-1
4923.75	---	36.46	54.00	17.54	500.00	100.0	H	294.00	-1
7305.00	---	37.72	54.00	16.28	500.00	100.0	H	0.00	6
7333.13	48.76	---	74.00	25.24	500.00	200.0	V	2.00	5
8310.00	---	37.89	54.00	16.11	500.00	200.0	V	0.00	6
8443.13	49.84	---	74.00	24.16	500.00	200.0	V	6.00	6
9885.00	---	38.72	54.00	15.28	500.00	100.0	V	287.00	7
9971.25	50.80	---	74.00	23.20	500.00	200.0	V	2.00	7
13346.25	53.23	---	74.00	20.77	500.00	200.0	H	237.00	11
13351.88	---	42.05	54.00	11.95	500.00	200.0	V	126.00	11

Radiates Emission from 3GHz to 18GHz

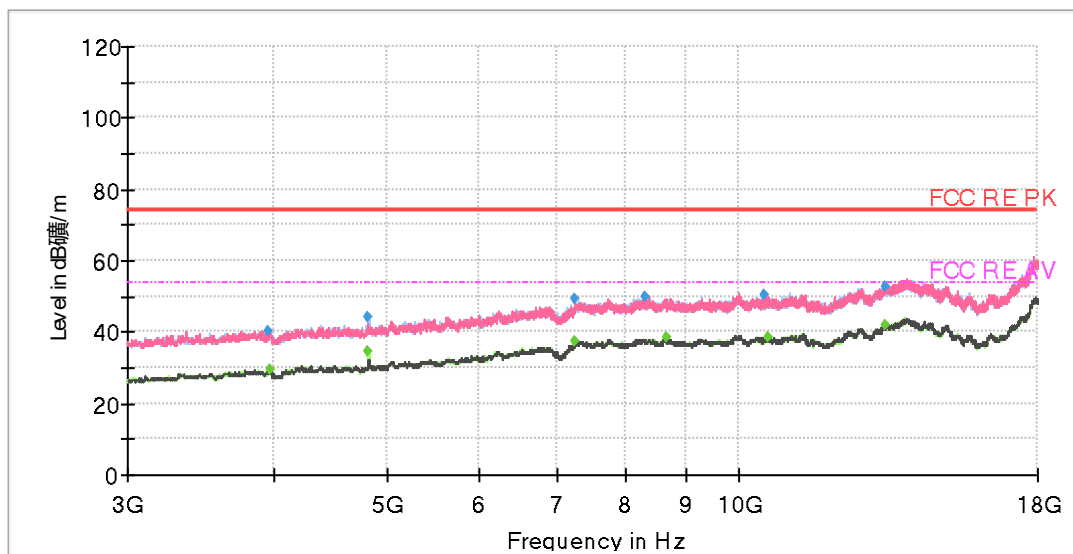
802.11n (HT20) CH1



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1175.25	43.32	---	74.00	30.68	500.00	100.0	H	0.00	-4
1187.25	---	31.61	54.00	22.39	500.00	200.0	H	356.00	-4
1395.00	44.15	---	74.00	29.85	500.00	100.0	H	14.00	-3
1404.00	---	32.82	54.00	21.18	500.00	200.0	H	315.00	-3
1703.00	---	33.86	54.00	20.14	500.00	200.0	H	358.00	-2
1719.25	45.28	---	74.00	28.72	500.00	200.0	H	343.00	-2
2007.00	---	35.58	54.00	18.42	500.00	200.0	H	165.00	1
2070.50	47.17	---	74.00	26.83	500.00	100.0	H	156.00	1
2369.75	48.65	---	74.00	25.35	500.00	200.0	H	306.00	2
2373.25	---	36.90	54.00	17.10	500.00	200.0	H	282.00	2
2993.75	50.50	---	74.00	23.50	500.00	200.0	H	269.00	4
2999.25	---	39.29	54.00	14.71	500.00	200.0	H	0.00	4

Note: The signal beyond the limit is carrier.

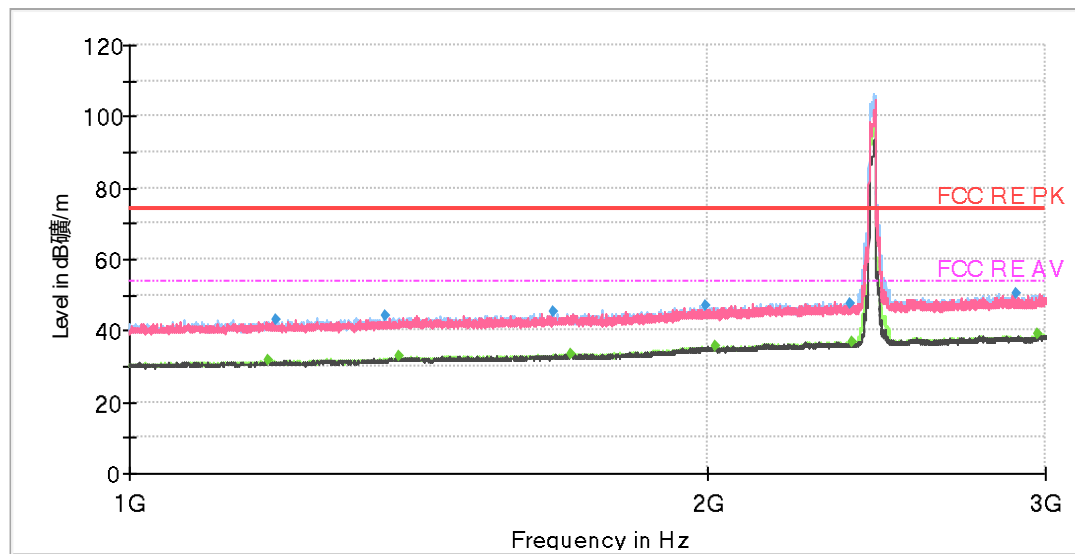
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3950.63	40.36	---	74.00	33.64	500.00	100.0	V	234.00	-4
3967.50	---	29.28	54.00	24.72	500.00	200.0	H	80.00	-4
4822.50	---	34.26	54.00	19.74	500.00	100.0	H	280.00	-2
4822.50	44.12	---	74.00	29.88	500.00	100.0	H	280.00	-2
7235.63	49.01	---	74.00	24.99	500.00	100.0	H	0.00	5
7239.38	---	37.64	54.00	16.36	500.00	200.0	H	269.00	5
8319.38	49.83	---	74.00	24.17	500.00	100.0	H	143.00	6
8653.13	---	38.41	54.00	15.59	500.00	200.0	H	220.00	7
10509.38	50.24	---	74.00	23.76	500.00	100.0	V	0.00	8
10575.00	---	38.61	54.00	15.39	500.00	200.0	H	205.00	8
13336.88	---	42.09	54.00	11.91	500.00	200.0	H	205.00	11
13338.75	52.92	---	74.00	21.08	500.00	200.0	V	31.00	11

Radiates Emission from 3GHz to 18GHz

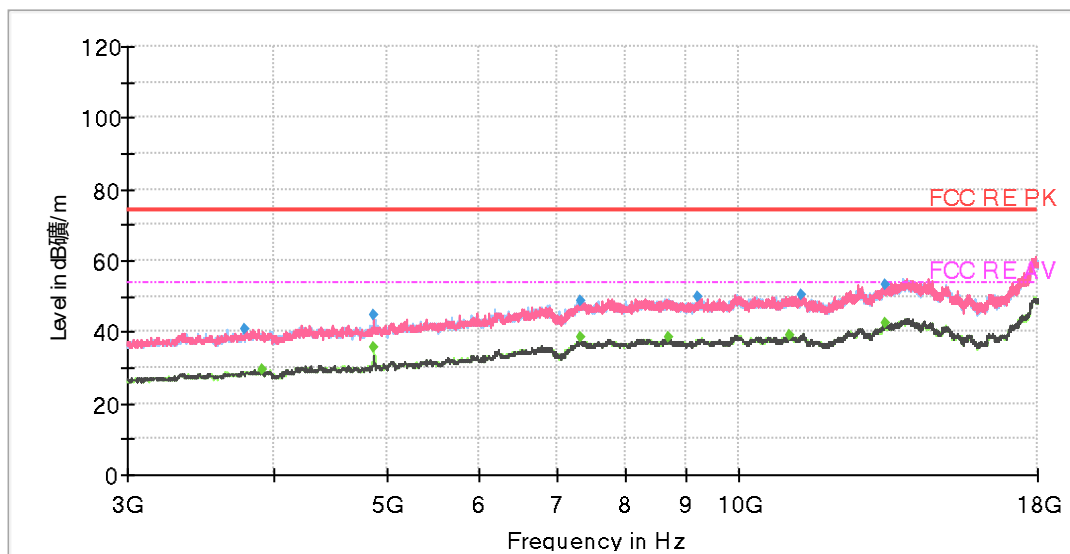
802.11n (HT20) CH6



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1181.00	---	31.75	54.00	22.25	500.00	100.0	H	25.00	-4
1192.50	43.10	---	74.00	30.90	500.00	200.0	H	0.00	-4
1358.75	44.40	---	74.00	29.60	500.00	100.0	H	7.00	-3
1381.75	---	32.65	54.00	21.35	500.00	200.0	V	18.00	-3
1663.00	45.40	---	74.00	28.60	500.00	200.0	H	256.00	-2
1696.75	---	33.54	54.00	20.46	500.00	100.0	H	32.00	-2
1996.75	47.25	---	74.00	26.75	500.00	100.0	H	40.00	1
2018.50	---	35.59	54.00	18.41	500.00	200.0	H	0.00	0
2373.50	47.65	---	74.00	26.35	500.00	200.0	V	5.00	2
2377.00	---	36.69	54.00	17.31	500.00	200.0	V	2.00	2
2895.25	50.50	---	74.00	23.50	500.00	200.0	H	320.00	3
2974.75	---	38.94	54.00	15.06	500.00	100.0	H	2.00	4

Note: The signal beyond the limit is carrier.

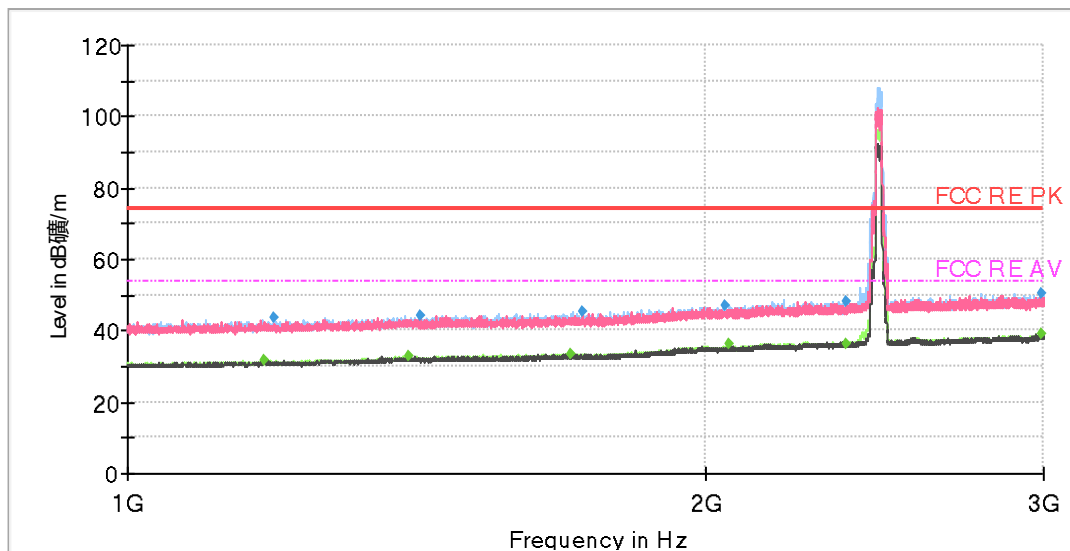
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3781.88	41.00	---	74.00	33.00	500.00	200.0	V	0.00	-5
3911.25	---	29.45	54.00	24.55	500.00	100.0	V	355.00	-4
4873.13	---	35.73	54.00	18.27	500.00	100.0	H	278.00	-1
4875.00	44.67	---	74.00	29.33	500.00	100.0	H	263.00	-1
7310.63	---	38.22	54.00	15.78	500.00	100.0	H	232.00	5
7321.88	48.46	---	74.00	25.54	500.00	100.0	H	0.00	5
8701.88	---	38.39	54.00	15.61	500.00	100.0	V	6.00	7
9232.50	50.09	---	74.00	23.92	500.00	200.0	H	356.00	7
11051.25	---	39.11	54.00	14.89	500.00	100.0	V	96.00	9
11321.25	50.31	---	74.00	23.69	500.00	100.0	V	353.00	9
13333.13	---	42.34	54.00	11.66	500.00	100.0	H	186.00	11
13350.00	53.44	---	74.00	20.56	500.00	200.0	V	19.00	11

Radiates Emission from 3GHz to 18GHz

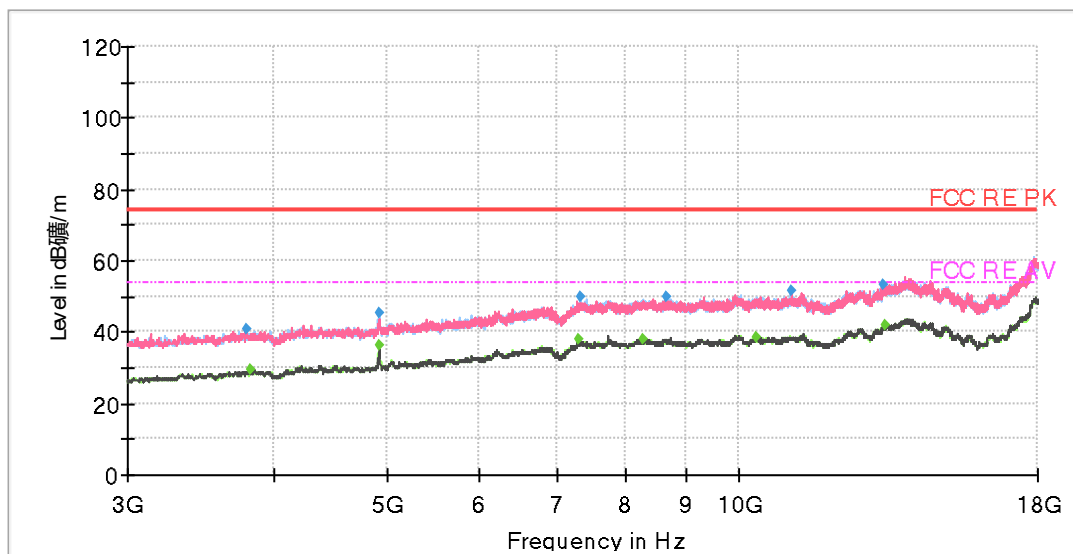
802.11n (HT20) CH11



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1178.00	---	31.75	54.00	22.25	500.00	100.0	H	130.00	-4
1193.00	43.46	---	74.00	30.54	500.00	100.0	H	257.00	-4
1402.00	---	32.96	54.00	21.04	500.00	200.0	H	20.00	-3
1420.00	44.38	---	74.00	29.62	500.00	200.0	H	42.00	-3
1700.25	---	33.61	54.00	20.39	500.00	200.0	H	7.00	-2
1726.75	45.53	---	74.00	28.47	500.00	100.0	H	339.00	-2
2049.00	47.17	---	74.00	26.83	500.00	200.0	H	63.00	1
2058.25	---	35.99	54.00	18.01	500.00	200.0	V	0.00	1
2366.25	---	36.29	54.00	17.71	500.00	200.0	H	42.00	2
2370.25	48.03	---	74.00	25.97	500.00	200.0	V	303.00	2
2992.75	---	38.89	54.00	15.11	500.00	100.0	H	358.00	4
2995.25	50.51	---	74.00	23.49	500.00	200.0	V	357.00	4

Note: The signal beyond the limit is carrier.

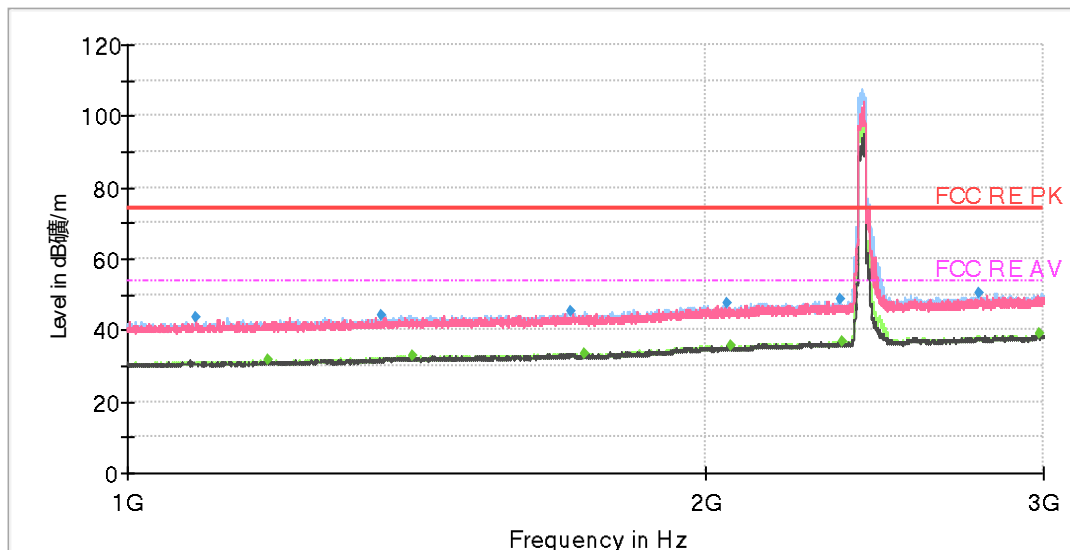
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3796.88	40.89	---	74.00	33.11	500.00	200.0	V	337.00	-5
3823.13	---	29.40	54.00	24.60	500.00	100.0	H	79.00	-5
4921.88	---	36.01	54.00	17.99	500.00	100.0	H	275.00	-1
4921.88	45.50	---	74.00	28.50	500.00	100.0	H	275.00	-1
7305.00	---	37.73	54.00	16.27	500.00	100.0	H	7.00	6
7312.50	49.55	---	74.00	24.45	500.00	200.0	H	356.00	5
8268.75	---	37.89	54.00	16.11	500.00	100.0	H	310.00	6
8653.13	50.02	---	74.00	23.98	500.00	200.0	H	255.00	7
10342.50	---	38.56	54.00	15.44	500.00	200.0	V	25.00	8
11105.63	51.37	---	74.00	22.63	500.00	200.0	V	326.00	9
13273.13	53.13	---	74.00	20.87	500.00	100.0	H	26.00	11
13312.50	---	42.03	54.00	11.97	500.00	200.0	V	186.00	11

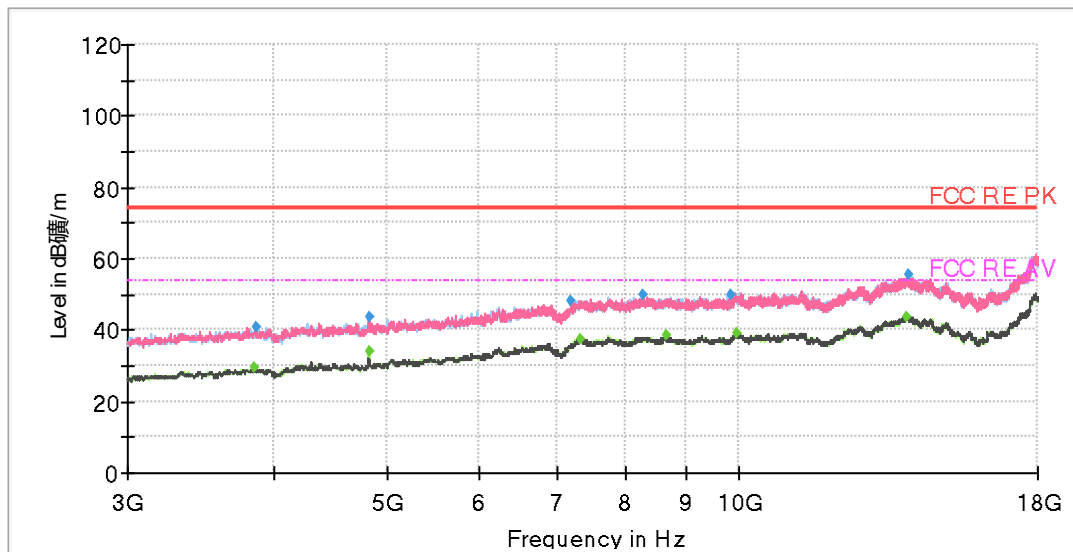
Radiates Emission from 3GHz to 18GHz

802.11ax HE20 CH 1



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1084.50	43.66	---	74.00	30.34	500.00	100.0	V	25.00	-5
1182.50	---	31.87	54.00	22.13	500.00	200.0	H	75.00	-4
1355.00	44.28	---	74.00	29.72	500.00	200.0	H	75.00	-3
1408.00	---	32.83	54.00	21.17	500.00	100.0	H	345.00	-3
1700.50	45.21	---	74.00	28.79	500.00	100.0	H	281.00	-2
1729.50	---	33.58	54.00	20.42	500.00	100.0	H	345.00	-2
2054.50	47.72	---	74.00	26.28	500.00	100.0	H	356.00	1
2060.75	---	35.66	54.00	18.34	500.00	100.0	H	340.00	1
2351.00	48.43	---	74.00	25.57	500.00	100.0	H	102.00	2
2356.00	---	36.53	54.00	17.47	500.00	200.0	V	0.00	2
2773.75	50.60	---	74.00	23.40	500.00	100.0	H	227.00	3
2982.50	---	38.85	54.00	15.15	500.00	200.0	H	226.00	4

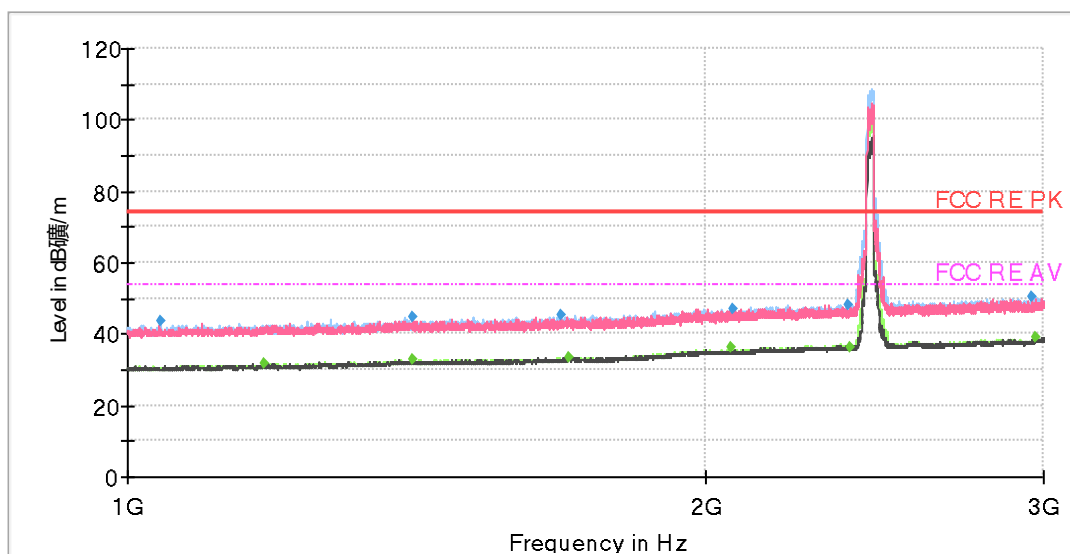
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3845.63	---	29.34	54.00	24.66	500.00	100.0	H	18.00	-4
3868.13	40.93	---	74.00	33.07	500.00	200.0	V	0.00	-4
4824.38	---	33.85	54.00	20.15	500.00	100.0	H	278.00	-2
4824.38	43.30	---	74.00	30.70	500.00	100.0	H	278.00	-2
7171.88	48.34	---	74.00	25.66	500.00	100.0	V	172.00	5
7308.75	---	37.37	54.00	16.63	500.00	100.0	V	354.00	5
8281.88	49.62	---	74.00	24.38	500.00	100.0	V	354.00	6
8656.88	---	38.55	54.00	15.45	500.00	100.0	H	13.00	7
9853.13	49.79	---	74.00	24.21	500.00	100.0	H	9.00	7
9963.75	---	39.11	54.00	14.89	500.00	100.0	V	359.00	7
13923.75	---	43.59	54.00	10.41	500.00	100.0	V	172.00	12
13965.00	55.30	---	74.00	18.70	500.00	100.0	V	96.00	12

Radiates Emission from 3GHz to 18GHz

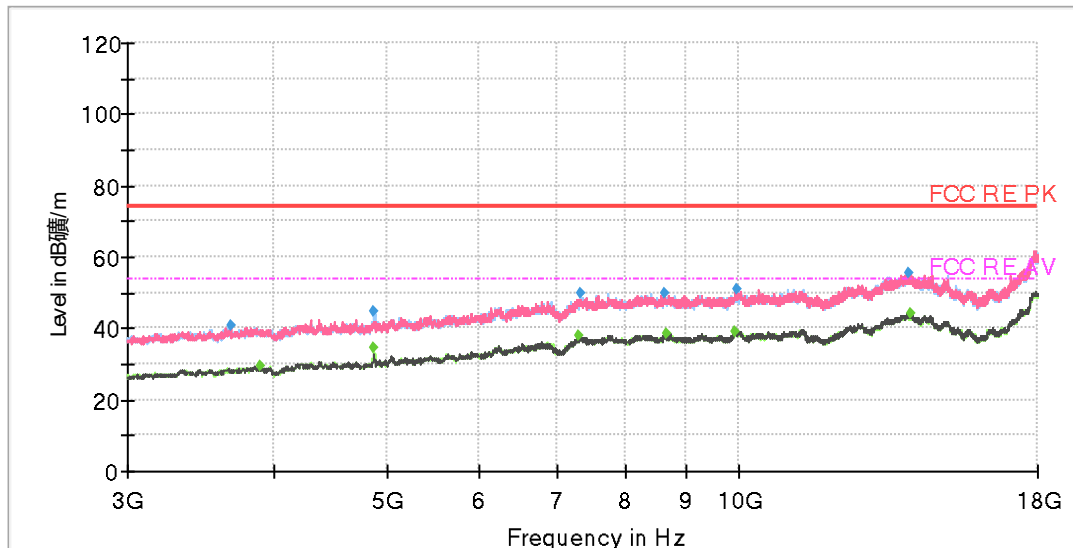
802.11ax HE20 CH6



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1040.50	43.34	---	74.00	30.66	500.00	100.0	H	358.00	-5
1179.25	---	31.65	54.00	22.35	500.00	200.0	V	353.00	-4
1407.25	44.67	---	74.00	29.33	500.00	200.0	H	300.00	-3
1407.75	---	32.77	54.00	21.23	500.00	200.0	V	349.00	-3
1683.25	45.07	---	74.00	28.93	500.00	200.0	H	44.00	-2
1696.50	---	33.64	54.00	20.36	500.00	100.0	H	359.00	-2
2061.50	---	35.96	54.00	18.04	500.00	100.0	H	185.00	1
2064.75	47.23	---	74.00	26.77	500.00	100.0	H	268.00	1
2375.00	47.91	---	74.00	26.09	500.00	100.0	H	268.00	2
2379.00	---	36.50	54.00	17.50	500.00	100.0	H	359.00	2
2961.25	50.56	---	74.00	23.44	500.00	200.0	V	349.00	3
2972.00	---	39.18	54.00	14.82	500.00	200.0	H	172.00	4

Note: The signal beyond the limit is carrier.

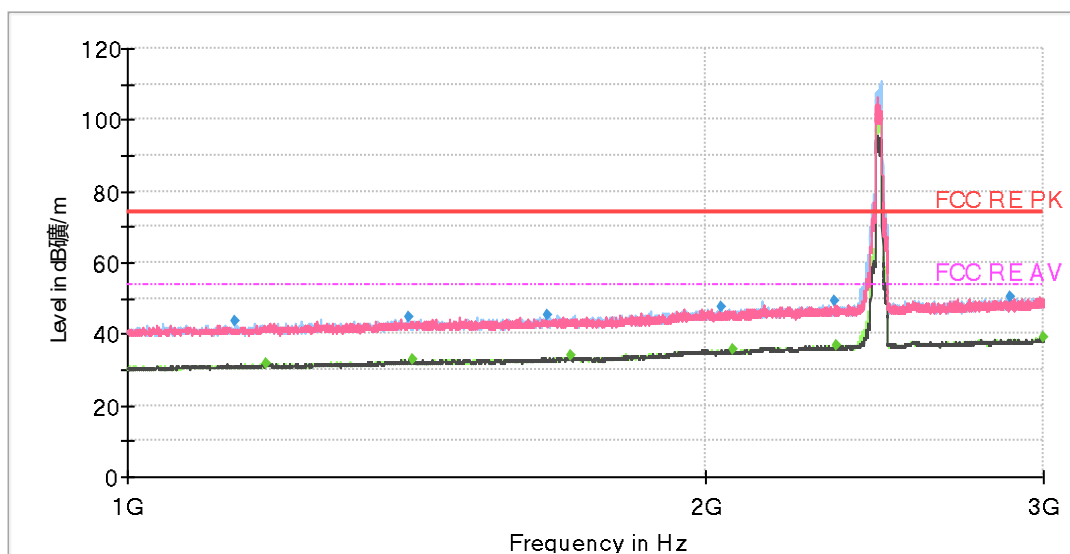
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3678.75	40.52	---	74.00	33.48	500.00	100.0	V	345.00	-5
3901.88	---	29.28	54.00	24.72	500.00	200.0	H	357.00	-4
4873.13	---	34.68	54.00	19.32	500.00	100.0	H	298.00	-1
4873.13	44.67	---	74.00	29.33	500.00	100.0	H	298.00	-1
7303.13	---	37.84	54.00	16.16	500.00	100.0	H	298.00	6
7308.75	49.55	---	74.00	24.45	500.00	200.0	H	199.00	5
8636.25	49.63	---	74.00	24.37	500.00	200.0	H	0.00	7
8656.88	---	38.50	54.00	15.50	500.00	100.0	V	0.00	7
9901.88	---	38.87	54.00	15.13	500.00	100.0	H	3.00	7
9941.25	50.78	---	74.00	23.22	500.00	100.0	V	358.00	7
13987.50	55.56	---	74.00	18.44	500.00	100.0	H	67.00	12
13993.13	---	44.19	54.00	9.81	500.00	100.0	V	95.00	12

Radiates Emission from 3GHz to 18GHz

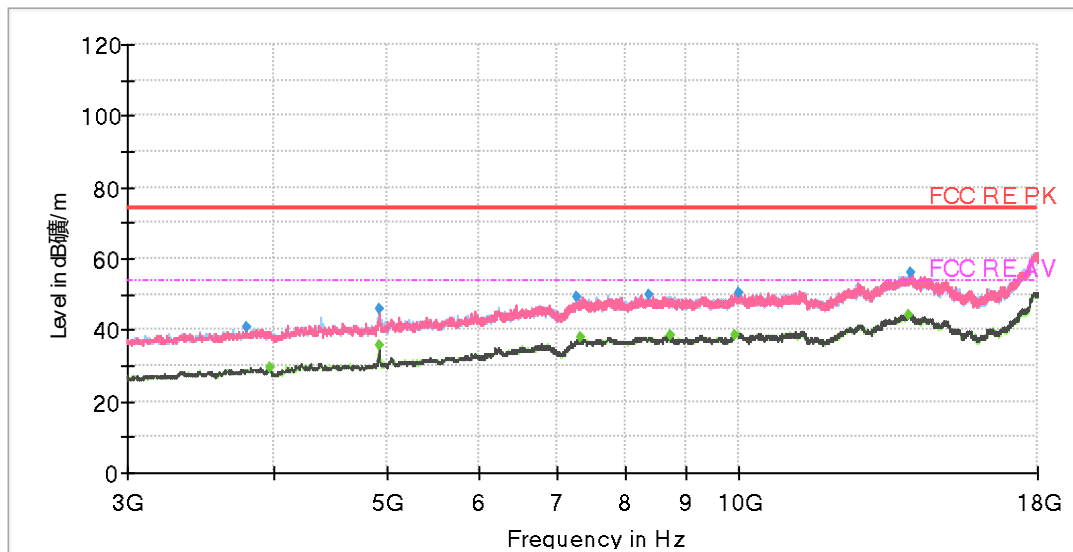
802.11ax HE20 CH11



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1138.00	43.49	---	74.00	30.51	500.00	100.0	H	2.00	-4
1181.25	---	31.82	54.00	22.18	500.00	100.0	H	0.00	-4
1400.50	44.59	---	74.00	29.41	500.00	100.0	H	39.00	-3
1407.25	---	32.99	54.00	21.01	500.00	200.0	V	1.00	-3
1656.25	45.44	---	74.00	28.56	500.00	100.0	H	1.00	-2
1703.50	---	33.93	54.00	20.07	500.00	100.0	V	357.00	-2
2036.75	47.32	---	74.00	26.68	500.00	200.0	H	0.00	0
2066.00	---	35.87	54.00	18.13	500.00	200.0	H	272.00	1
2333.75	49.09	---	74.00	24.91	500.00	100.0	V	335.00	2
2341.00	---	36.98	54.00	17.02	500.00	100.0	V	244.00	2
2881.25	50.36	---	74.00	23.64	500.00	200.0	V	10.00	3
2997.75	---	38.94	54.00	15.06	500.00	100.0	H	166.00	4

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

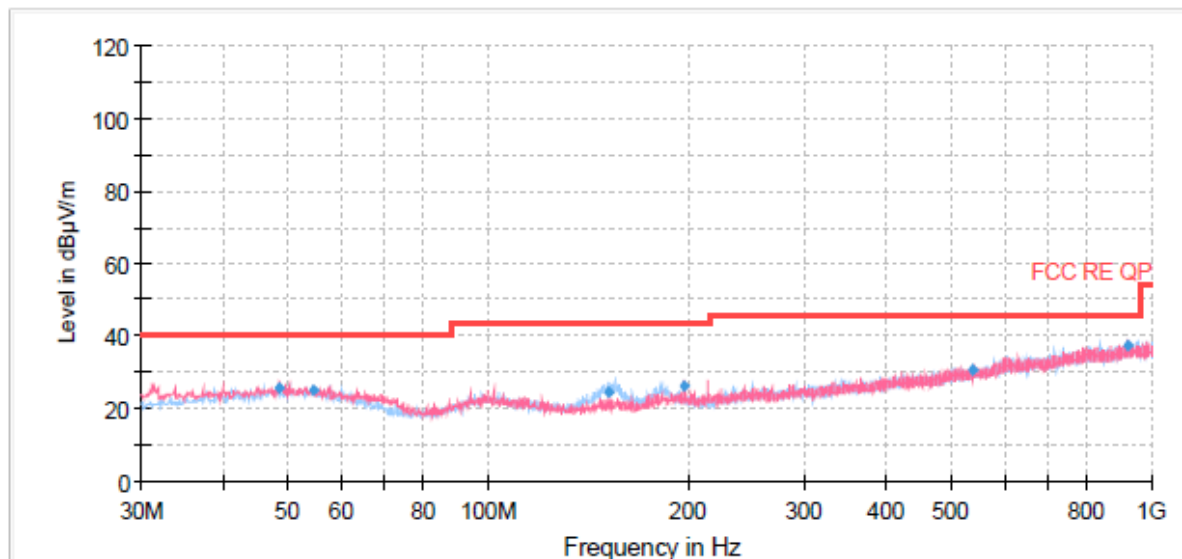


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3795.00	40.52	---	74.00	33.48	500.00	100.0	V	292.00	-5
3969.38	---	29.51	54.00	24.49	500.00	100.0	V	51.00	-4
4923.75	---	35.62	54.00	18.38	500.00	100.0	H	266.00	-1
4929.38	45.87	---	74.00	28.13	500.00	200.0	H	255.00	-1
7269.38	49.48	---	74.00	24.52	500.00	200.0	H	132.00	5
7312.50	---	37.77	54.00	16.23	500.00	200.0	V	0.00	5
8377.50	49.98	---	74.00	24.02	500.00	200.0	V	43.00	7
8733.75	---	38.23	54.00	15.77	500.00	100.0	V	0.00	7
9903.75	---	38.72	54.00	15.28	500.00	200.0	V	2.00	7
9991.88	50.42	---	74.00	23.58	500.00	200.0	H	335.00	7
13981.88	---	44.35	54.00	9.65	500.00	200.0	V	246.00	12
13993.13	55.78	---	74.00	18.22	500.00	100.0	V	353.00	12

Radiates Emission from 3GHz to 18GHz

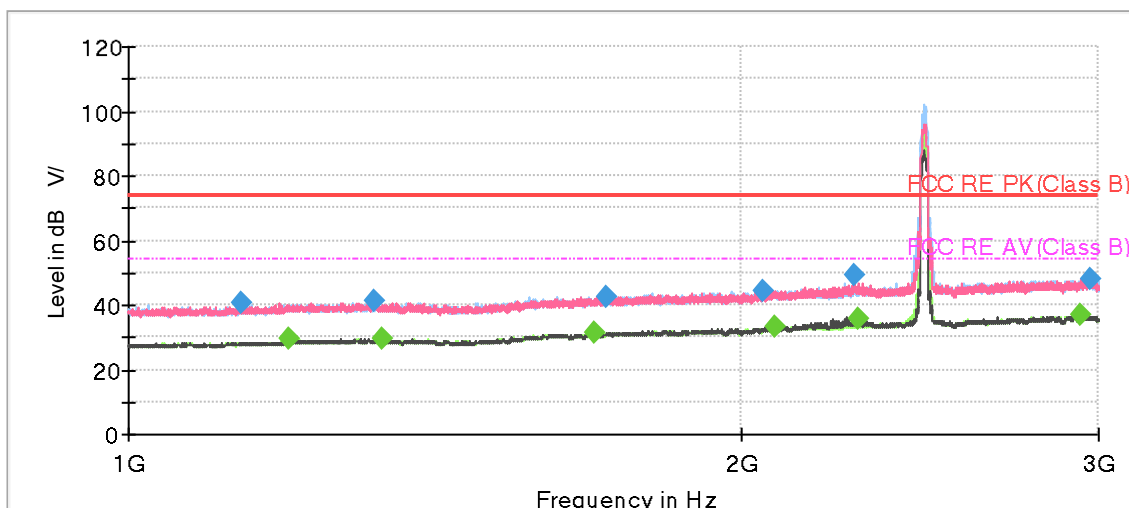
Configuration 3:

802.11g CH11



Radiates Emission from 30MHz to 1GHz

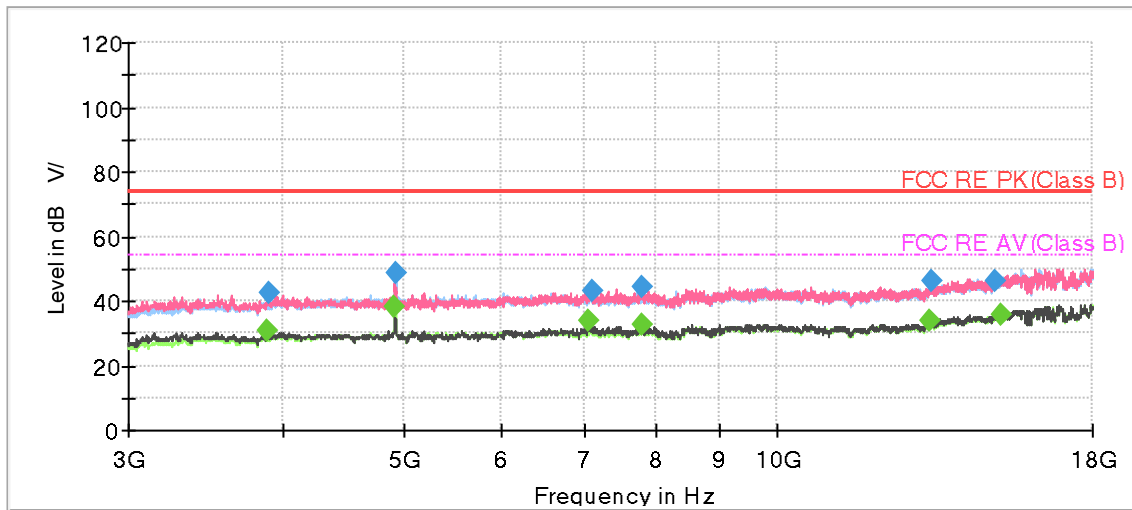
Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)
48.55	25.47	40.00	14.53	101.0	V	358.00
54.61	24.89	40.00	15.11	200.0	V	262.00
151.86	24.40	43.50	19.10	199.0	H	83.00
198.05	26.04	43.50	17.46	100.0	V	127.00
539.61	30.85	46.00	15.15	199.0	H	68.00
919.13	37.49	46.00	8.51	100.0	V	181.00



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1136.000000	40.55	---	74.00	33.45	500.0	200.0	H	166.0	-9.8
1198.500000	---	29.28	54.00	24.72	500.0	100.0	H	60.0	-8.8
1322.250000	41.52	---	74.00	32.48	500.0	100.0	V	3.0	-8.0
1332.750000	---	29.47	54.00	24.53	500.0	100.0	V	0.0	-8.0
1697.250000	---	31.44	54.00	22.56	500.0	100.0	V	285.0	-6.0
1717.750000	42.76	---	74.00	31.24	500.0	100.0	H	354.0	-5.9
2054.000000	44.40	---	74.00	29.60	500.0	100.0	H	87.0	-4.2
2078.750000	---	33.27	54.00	20.73	500.0	100.0	V	164.0	-3.9
2274.500000	49.29	---	74.00	24.71	500.0	100.0	V	182.0	-3.0
2288.000000	---	35.89	54.00	18.11	500.0	100.0	V	3.0	-2.9
2942.500000	---	36.73	54.00	17.27	500.0	100.0	V	28.0	-0.9
2971.750000	48.03	---	74.00	25.97	500.0	100.0	V	3.0	-0.7

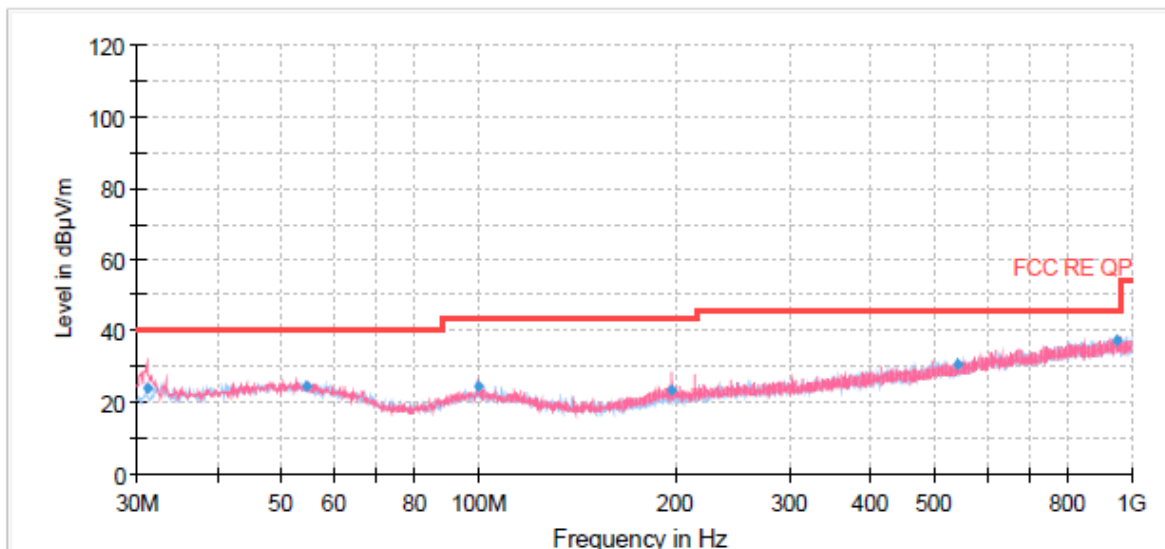


Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3888.750000	---	30.59	54.00	23.41	500.0	200.0	V	112.0	-7.4
3894.375000	42.60	---	74.00	31.40	500.0	200.0	V	112.0	-7.4
4925.625000	---	38.15	54.00	15.85	500.0	100.0	H	303.0	-5.3
4935.000000	48.42	---	74.00	25.58	500.0	100.0	H	284.0	-5.4
7063.125000	---	34.15	54.00	19.85	500.0	100.0	V	261.0	-3.1
7111.875000	43.31	---	74.00	30.69	500.0	100.0	V	120.0	-3.0
7788.750000	44.27	---	74.00	29.73	500.0	100.0	V	261.0	-2.5
7801.875000	---	32.90	54.00	21.10	500.0	100.0	V	111.0	-2.5
13310.625000	---	33.59	54.00	20.41	500.0	200.0	V	132.0	2.3
13350.000000	45.86	---	74.00	28.14	500.0	100.0	H	322.0	2.4
15013.125000	46.32	---	74.00	27.68	500.0	200.0	V	122.0	5.2
15185.625000	---	35.72	54.00	18.28	500.0	200.0	H	0.0	5.3

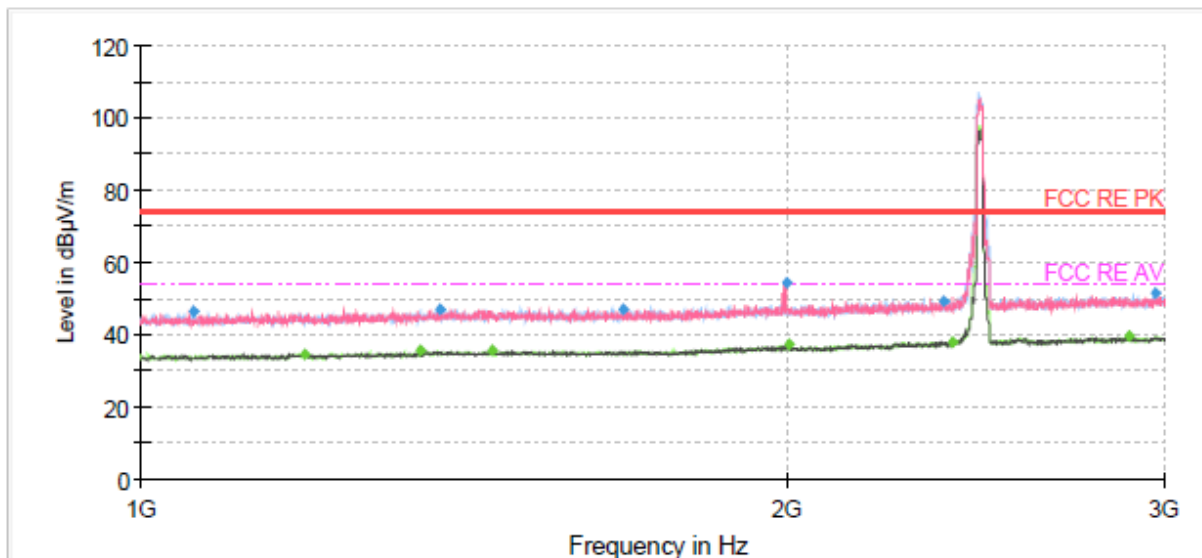
Configuration 4:

802.11g CH11



Radiates Emission from 30MHz to 1GHz

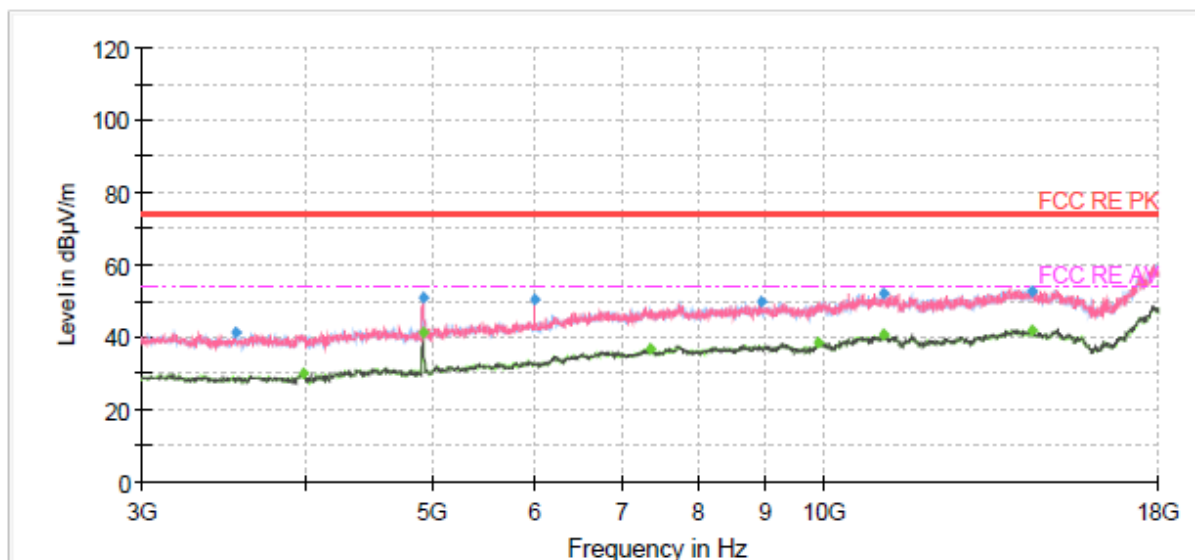
Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)
31.09	24.04	40.00	15.96	100.0	V	49.00
54.61	24.76	40.00	15.24	101.0	H	13.00
100.08	24.53	43.50	18.97	158.0	V	340.00
197.93	23.41	43.50	20.09	200.0	V	359.00
541.19	30.86	46.00	15.14	100.0	H	310.00
948.35	37.62	46.00	8.38	192.0	V	347.00



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1059.00	46.34	---	74.00	27.66	500.00	100.0	H	45.00	-6
1191.50	---	34.59	54.00	19.41	500.00	100.0	V	342.00	-5
1350.00	---	35.93	54.00	18.07	500.00	200.0	V	31.00	-4
1377.50	47.15	---	74.00	26.85	500.00	200.0	V	243.00	-4
1458.00	---	35.90	54.00	18.10	500.00	200.0	V	14.00	-4
1678.25	47.12	---	74.00	26.88	500.00	200.0	H	356.00	-3
1999.75	54.45	---	74.00	19.55	500.00	200.0	V	228.00	-2
2003.25	---	37.32	54.00	16.68	500.00	200.0	V	14.00	-2
2367.75	49.31	---	74.00	24.69	500.00	100.0	V	291.00	0
2387.50	---	37.68	54.00	16.32	500.00	100.0	H	76.00	0
2888.25	---	39.43	54.00	14.57	500.00	200.0	V	1.00	2
2973.25	51.28	---	74.00	22.72	500.00	100.0	V	244.00	2



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3538.13	41.19	---	74.00	32.81	500.00	100.0	V	359.00	-7
3982.50	---	29.94	54.00	24.06	500.00	200.0	V	14.00	-4
4921.88	50.94	---	74.00	23.06	500.00	200.0	V	14.00	-3
4923.75	---	41.24	54.00	12.76	500.00	200.0	V	354.00	-3
5998.13	50.19	---	74.00	23.81	500.00	100.0	V	191.00	-1
7346.25	---	36.65	54.00	17.35	500.00	200.0	V	199.00	2
8947.50	49.68	---	74.00	24.32	500.00	100.0	H	133.00	5
9898.13	---	38.22	54.00	15.78	500.00	100.0	H	89.00	5
11098.13	52.17	---	74.00	21.83	500.00	200.0	H	249.00	7
11098.13	---	40.52	54.00	13.48	500.00	100.0	V	359.00	7
14381.25	---	42.02	54.00	11.98	500.00	200.0	V	168.00	9
14398.13	52.72	---	74.00	21.28	500.00	100.0	V	352.00	9

1.2. Bluetooth LE

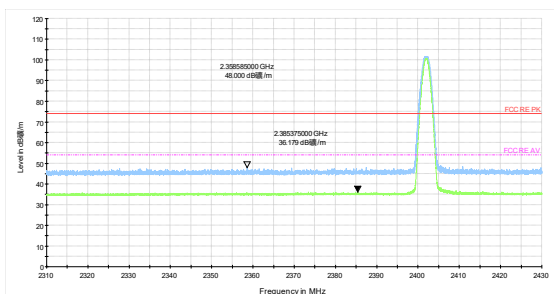
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

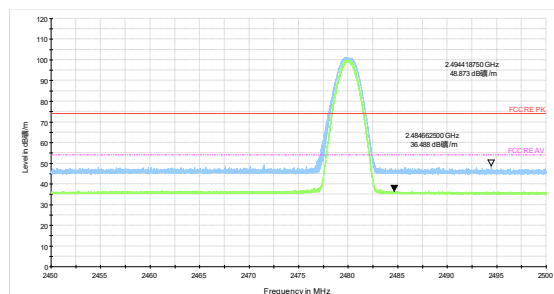
The signal beyond the limit is carrier.

Configuration 1:

After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.



Bluetooth LE (1M) Channel 0 Peak+ Average



Bluetooth LE (1M) Channel 39 Peak+Average

Result of RE

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

Remark:

1. **Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)**
2. **Margin = Limit – Quasi-Peak/ MAX Peak/ Average**
3. **A symbol (dBμV/m) in the test plot below means (dBμV/m)**
4. **The following graphs display the maximum values of coaxial and coplanar for 9k-30MHz; horizontal and vertical for above 30MHz by software.**
5. **For below 1GHz**

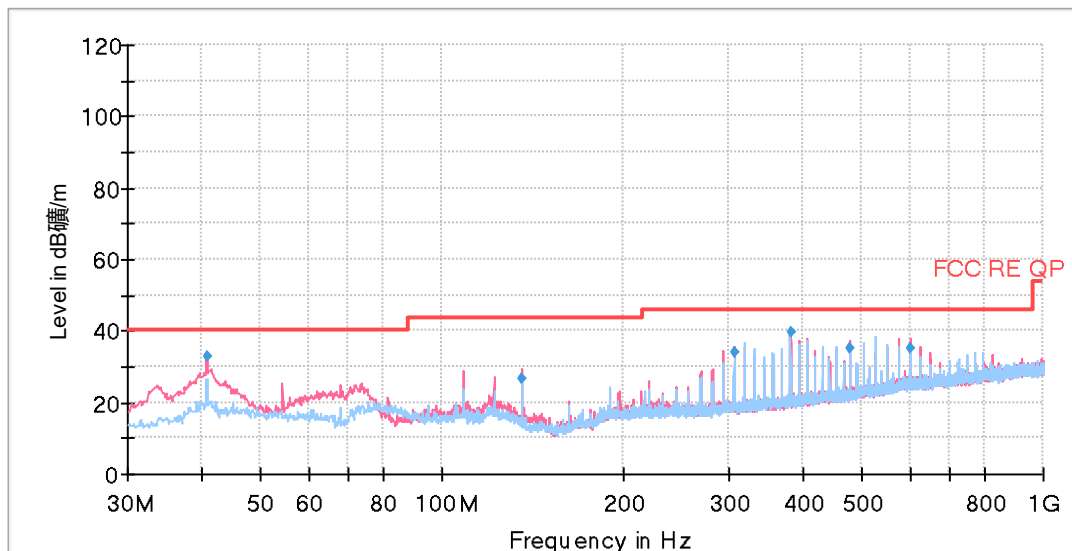


For above 1GHz

Continuous TX mode:

Configuration 1:

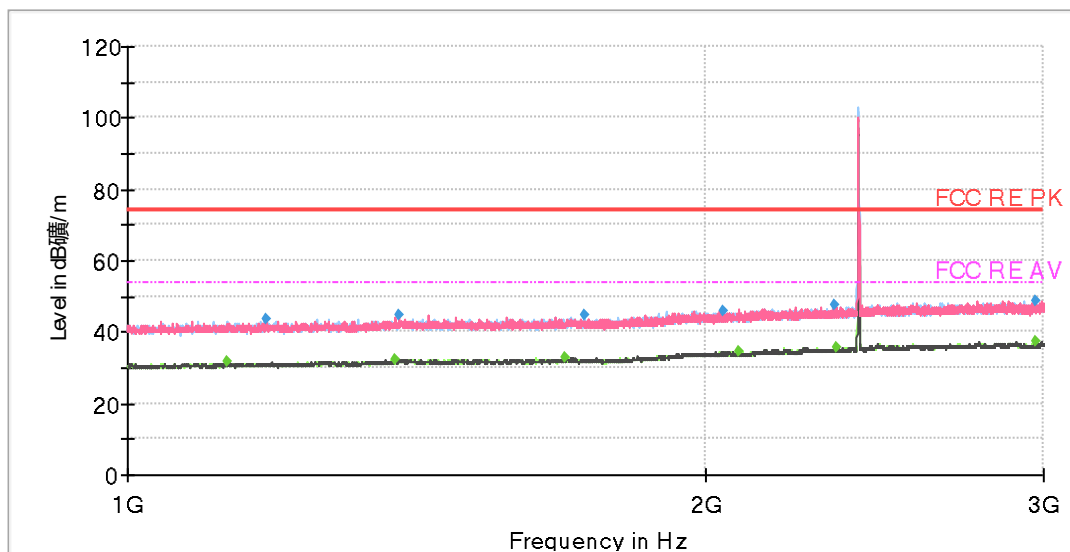
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
40.67	32.75	40.00	7.25	101.0	V	0.00	19
135.61	26.81	43.50	16.69	100.0	V	290.00	15
306.49	33.73	46.00	12.27	100.0	V	261.00	21
380.01	39.59	46.00	6.41	110.0	V	133.00	23
477.97	35.18	46.00	10.82	101.0	V	98.00	25
600.52	34.85	46.00	11.15	101.0	V	0.00	27

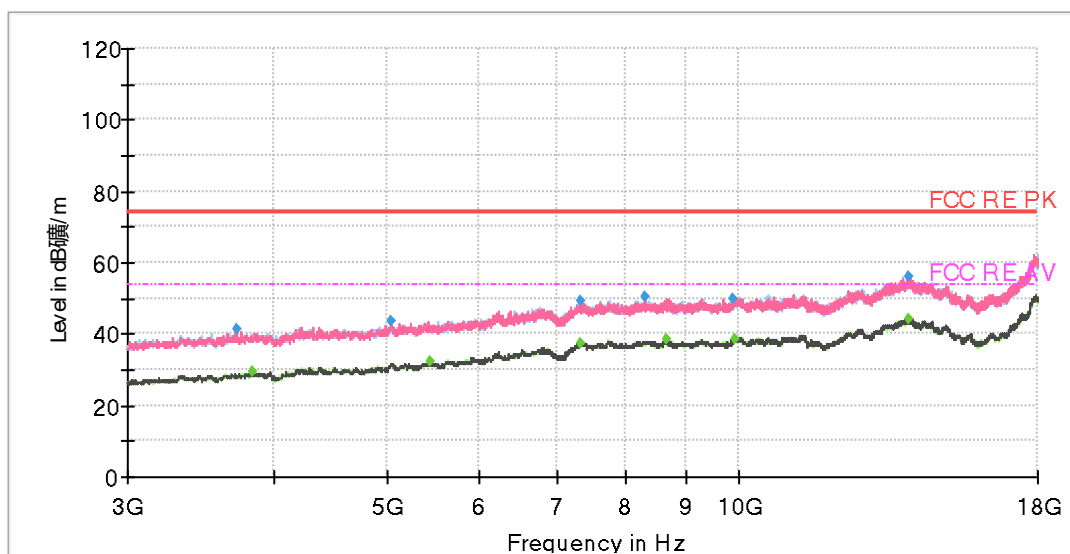
Bluetooth LE-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

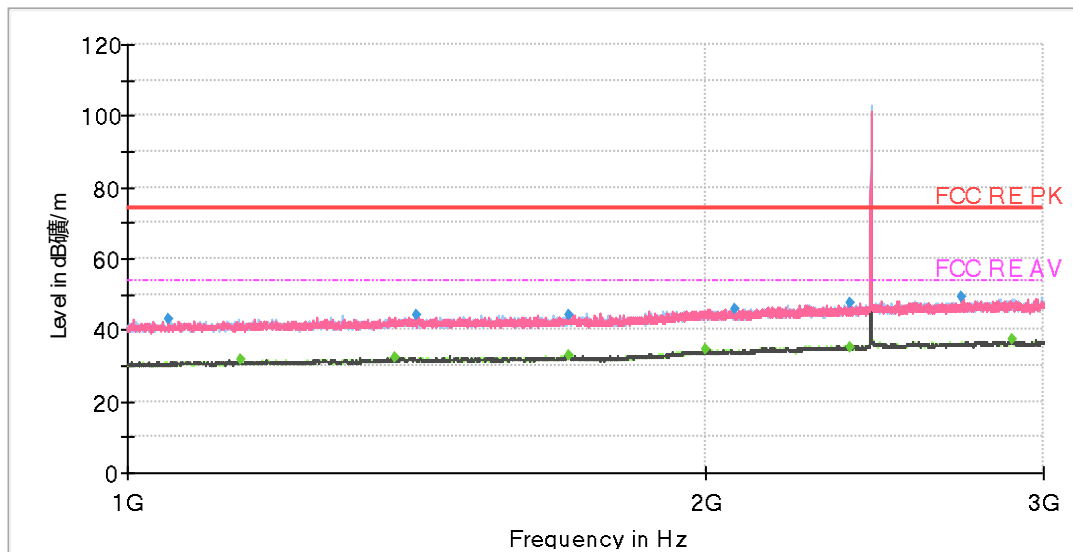
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1126.25	---	31.70	54.00	22.30	500.00	200.0	V	72.00	-4
1180.00	43.58	---	74.00	30.42	500.00	200.0	V	170.00	-4
1377.50	---	32.55	54.00	21.45	500.00	100.0	H	359.00	-3
1383.50	44.53	---	74.00	29.47	500.00	200.0	V	240.00	-3
1689.00	---	32.86	54.00	21.14	500.00	100.0	H	100.00	-2
1729.50	44.60	---	74.00	29.40	500.00	100.0	H	320.00	-2
2044.50	46.03	---	74.00	27.97	500.00	100.0	H	341.00	1
2080.00	---	34.59	54.00	19.41	500.00	200.0	H	3.00	0
2335.75	47.29	---	74.00	26.71	500.00	200.0	V	315.00	2
2338.50	---	35.49	54.00	18.51	500.00	200.0	V	212.00	2
2971.75	---	37.38	54.00	16.62	500.00	100.0	V	4.00	4
2972.25	48.79	---	74.00	25.21	500.00	200.0	V	356.00	4



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3718.13	41.04	---	74.00	32.96	500.00	100.0	V	219.00	-5
3841.88	---	29.60	54.00	24.40	500.00	100.0	H	357.00	-4
5043.75	43.77	---	74.00	30.23	500.00	200.0	H	141.00	0
5445.00	---	32.18	54.00	21.82	500.00	100.0	V	188.00	0
7310.63	49.11	---	74.00	24.89	500.00	100.0	V	128.00	5
7312.50	---	37.56	54.00	16.44	500.00	200.0	V	345.00	5
8308.13	50.29	---	74.00	23.71	500.00	200.0	V	0.00	6
8658.75	---	38.39	54.00	15.61	500.00	200.0	H	294.00	7
9888.75	49.81	---	74.00	24.19	500.00	200.0	V	66.00	7
9900.00	---	38.68	54.00	15.32	500.00	200.0	H	124.00	7
13950.00	56.01	---	74.00	17.99	500.00	200.0	V	353.00	12
13951.88	---	44.04	54.00	9.96	500.00	200.0	H	2.00	12

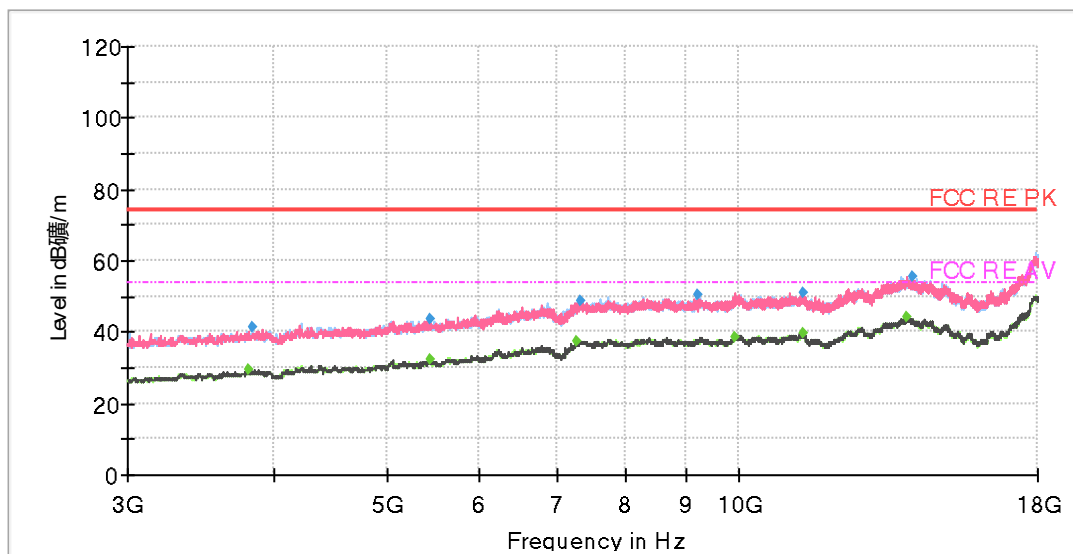
Bluetooth LE-Channel 19



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.00	43.05	---	74.00	30.95	500.00	200.0	V	358.00	-5
1145.75	---	31.72	54.00	22.28	500.00	100.0	V	0.00	-4
1379.25	---	32.54	54.00	21.46	500.00	200.0	H	6.00	-3
1413.50	44.08	---	74.00	29.92	500.00	200.0	V	352.00	-3
1697.50	---	32.84	54.00	21.16	500.00	200.0	H	56.00	-2
1698.25	44.17	---	74.00	29.83	500.00	100.0	V	142.00	-2
2001.50	---	34.65	54.00	19.35	500.00	200.0	V	1.00	1
2074.25	45.96	---	74.00	28.04	500.00	100.0	H	255.00	0
2378.75	---	35.31	54.00	18.69	500.00	200.0	V	232.00	2
2381.75	47.31	---	74.00	26.69	500.00	100.0	V	113.00	2
2720.25	49.04	---	74.00	24.96	500.00	200.0	H	107.00	3
2890.75	---	37.17	54.00	16.83	500.00	200.0	V	359.00	3

Note: The signal beyond the limit is carrier.

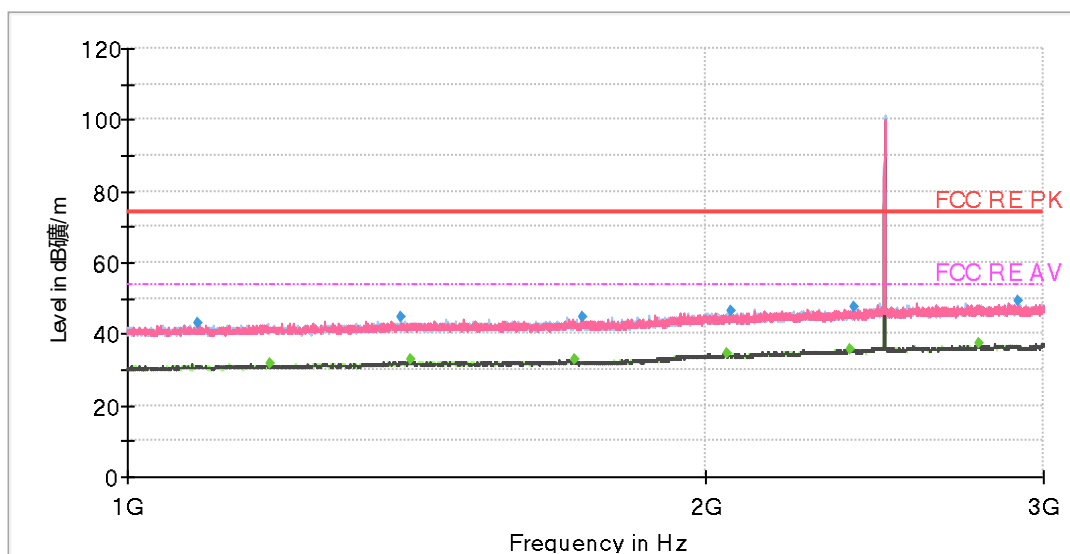
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3808.13	---	29.27	54.00	24.73	500.00	100.0	H	306.00	-5
3832.50	41.22	---	74.00	32.78	500.00	100.0	H	51.00	-4
5439.38	---	32.37	54.00	21.63	500.00	100.0	H	353.00	0
5443.13	43.44	---	74.00	30.56	500.00	200.0	H	25.00	0
7267.50	---	37.49	54.00	16.51	500.00	200.0	H	42.00	5
7323.75	48.80	---	74.00	25.20	500.00	200.0	H	0.00	5
9219.38	50.12	---	74.00	23.88	500.00	200.0	V	358.00	7
9900.00	---	38.59	54.00	15.41	500.00	200.0	H	139.00	7
11347.50	---	39.54	54.00	14.46	500.00	200.0	H	0.00	9
11351.25	50.98	---	74.00	23.02	500.00	200.0	H	139.00	9
13914.38	---	44.11	54.00	9.89	500.00	200.0	H	109.00	12
14066.25	55.60	---	74.00	18.40	500.00	200.0	V	130.00	12

Radiates Emission from 3GHz to 18GHz

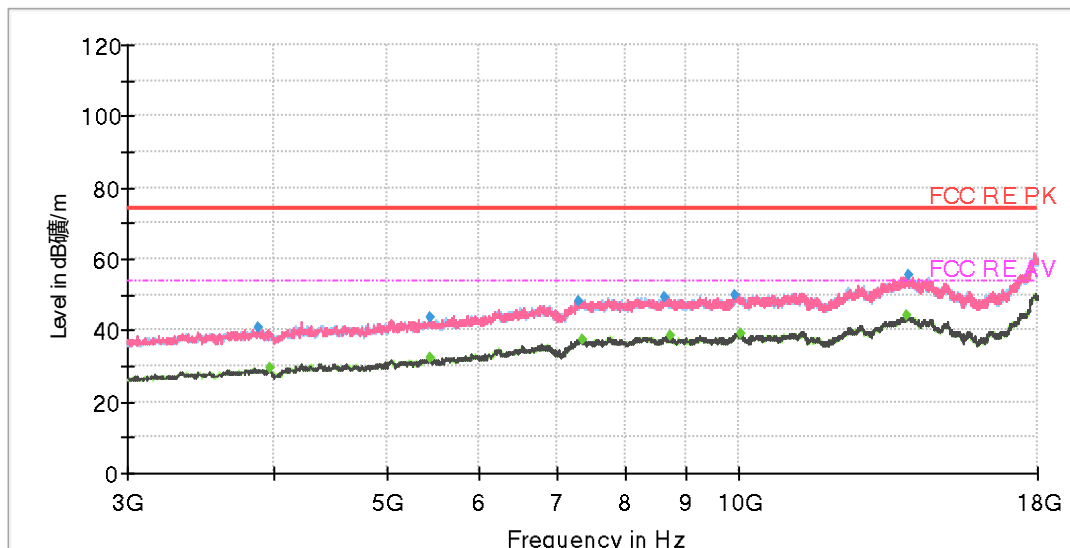
Bluetooth LE-Channel 39



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1089.00	43.05	---	74.00	30.95	500.00	200.0	H	358.00	-5
1187.00	---	31.54	54.00	22.46	500.00	100.0	H	280.00	-4
1389.25	44.56	---	74.00	29.44	500.00	100.0	H	337.00	-3
1404.50	---	32.66	54.00	21.34	500.00	100.0	V	91.00	-3
1709.00	---	32.85	54.00	21.15	500.00	100.0	V	21.00	-2
1726.25	44.86	---	74.00	29.14	500.00	200.0	H	16.00	-2
2052.25	---	34.59	54.00	19.41	500.00	100.0	H	252.00	1
2063.50	46.15	---	74.00	27.85	500.00	200.0	H	64.00	1
2376.50	---	35.48	54.00	18.52	500.00	200.0	H	247.00	2
2389.00	47.37	---	74.00	26.63	500.00	200.0	H	43.00	2
2780.00	---	37.22	54.00	16.78	500.00	100.0	V	119.00	3
2910.75	49.18	---	74.00	24.82	500.00	100.0	H	358.00	3

Note: The signal beyond the limit is carrier.

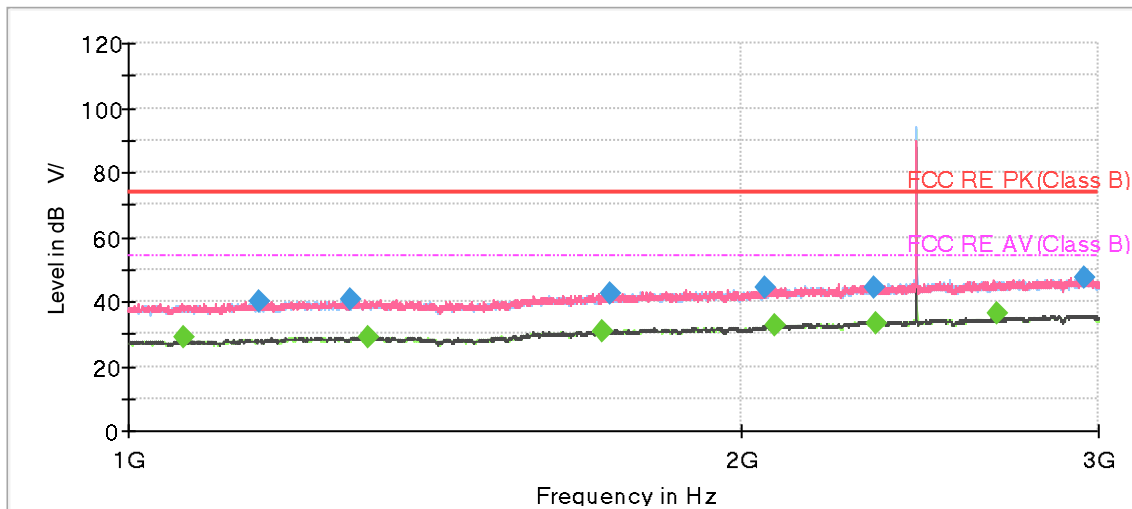
Radiates Emission from 1GHz to 3GHz



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3877.50	40.95	---	74.00	33.05	500.00	100.0	H	298.00	-4
3967.50	---	29.53	54.00	24.47	500.00	200.0	V	321.00	-4
5439.38	---	32.06	54.00	21.94	500.00	100.0	H	298.00	0
5445.00	43.54	---	74.00	30.46	500.00	100.0	V	1.00	0
7295.63	48.21	---	74.00	25.79	500.00	200.0	V	286.00	6
7336.88	---	37.58	54.00	16.42	500.00	100.0	H	13.00	5
8640.00	49.37	---	74.00	24.63	500.00	200.0	V	81.00	7
8737.50	---	38.50	54.00	15.50	500.00	200.0	H	155.00	7
9905.63	49.83	---	74.00	24.17	500.00	100.0	H	272.00	7
10029.38	---	38.99	54.00	15.01	500.00	100.0	H	356.00	7
13920.00	---	43.96	54.00	10.04	500.00	100.0	H	112.00	12
13974.38	55.25	---	74.00	18.75	500.00	100.0	H	209.00	12

Radiates Emission from 3GHz to 18GHz

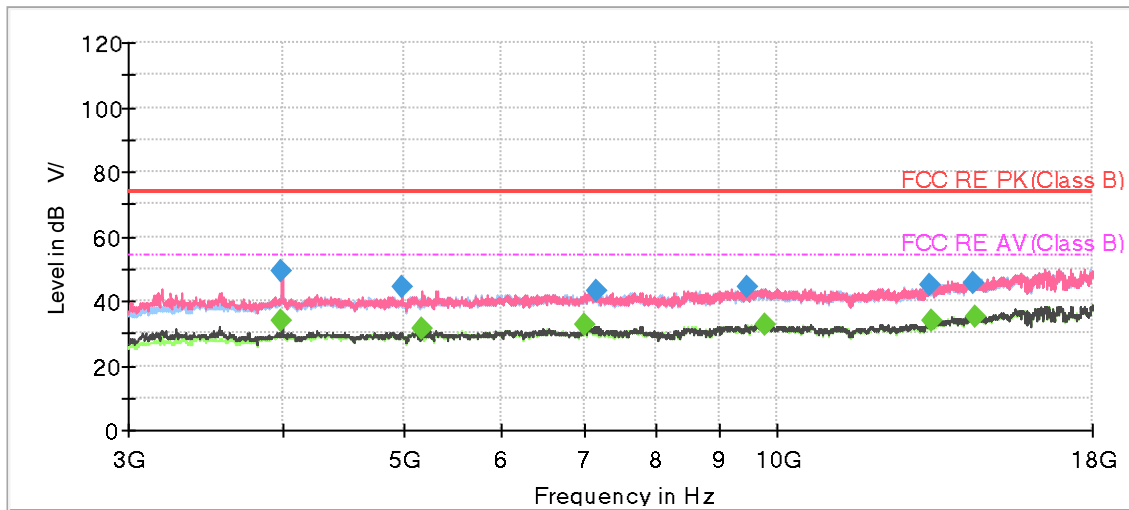
Configuration 3:



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

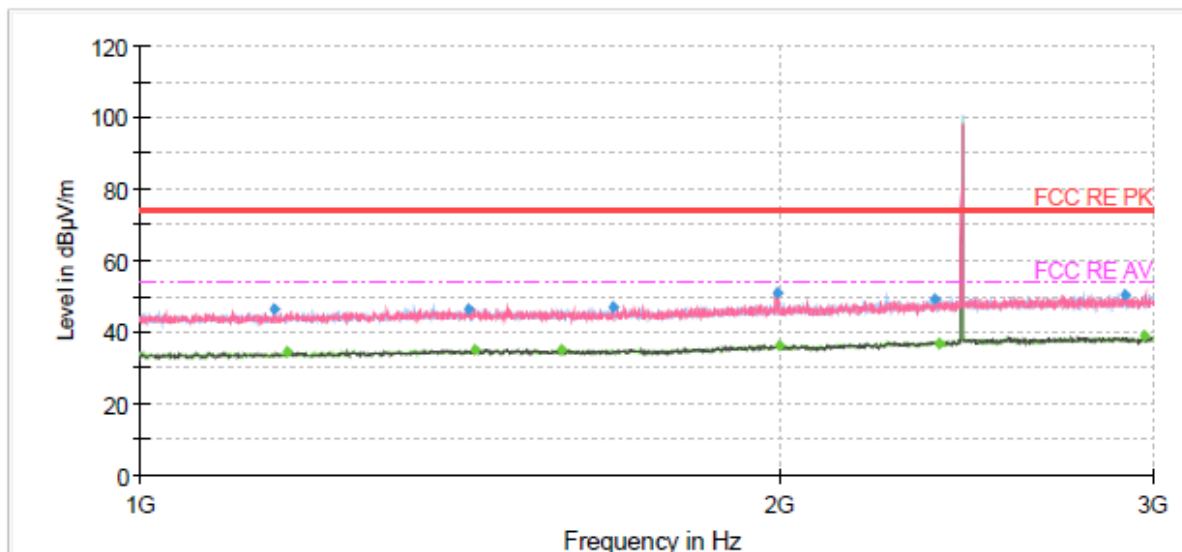
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1065.250000	---	28.82	54.00	25.18	500.0	200.0	V	89.0	-10.3
1160.750000	40.00	---	74.00	34.00	500.0	100.0	H	222.0	-9.6
1286.750000	40.80	---	74.00	33.20	500.0	100.0	V	297.0	-8.3
1312.500000	---	29.21	54.00	24.79	500.0	100.0	H	214.0	-8.1
1710.000000	---	31.06	54.00	22.95	500.0	100.0	H	0.0	-5.9
1727.750000	42.49	---	74.00	31.51	500.0	100.0	V	4.0	-5.8
2058.000000	44.00	---	74.00	30.00	500.0	100.0	V	113.0	-4.1
2079.000000	---	32.83	54.00	21.17	500.0	100.0	V	278.0	-3.9
2328.750000	44.56	---	74.00	29.44	500.0	200.0	H	308.0	-3.0
2333.250000	---	33.33	54.00	20.67	500.0	200.0	V	111.0	-3.0
2673.000000	---	36.01	54.00	17.99	500.0	200.0	V	339.0	-1.8
2953.250000	47.37	---	74.00	26.63	500.0	200.0	V	357.0	-0.8



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)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3980.625000	49.19	---	74.00	24.81	500.0	200.0	V	209.0	-6.9
3991.875000	---	33.63	54.00	20.37	500.0	200.0	V	209.0	-6.8
4989.375000	44.20	---	74.00	29.80	500.0	200.0	V	164.0	-5.6
5178.750000	---	31.55	54.00	22.45	500.0	100.0	V	119.0	-4.8
7001.250000	---	32.33	54.00	21.67	500.0	100.0	V	92.0	-3.0
7158.750000	43.31	---	74.00	30.69	500.0	100.0	V	252.0	-2.9
9483.750000	44.27	---	74.00	29.73	500.0	200.0	V	0.0	0.0
9783.750000	---	32.80	54.00	21.20	500.0	100.0	V	82.0	-0.5
13325.625000	44.76	---	74.00	29.24	500.0	200.0	V	190.0	2.3
13350.000000	---	33.78	54.00	20.22	500.0	200.0	V	0.0	2.4
14433.750000	45.68	---	74.00	28.32	500.0	100.0	H	228.0	4.5
14465.625000	---	35.15	54.00	18.85	500.0	200.0	V	288.0	4.5

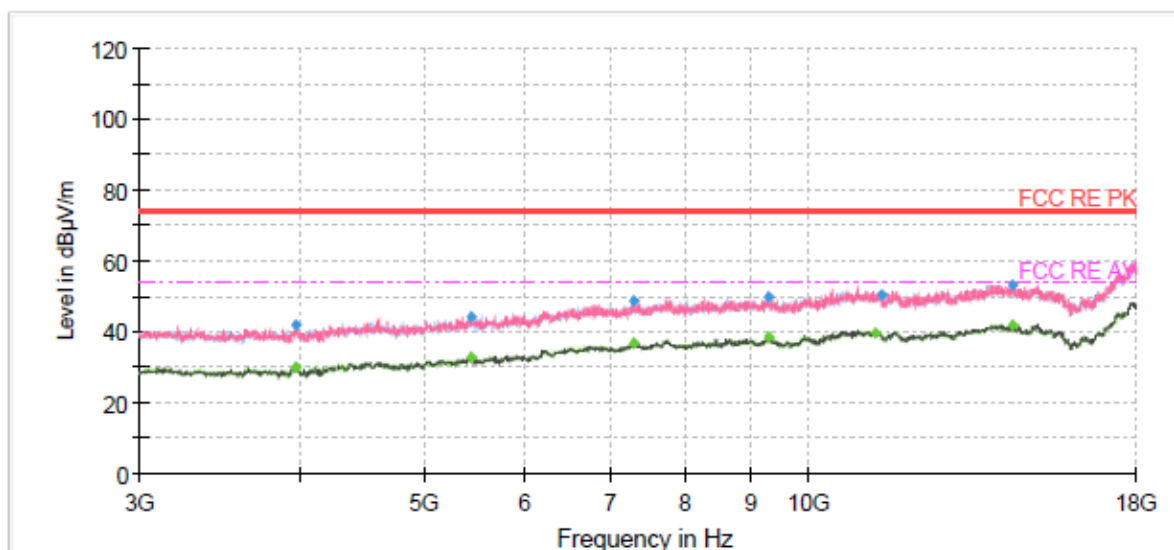
Configuration 4:



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1157.25	46.37	---	74.00	27.63	500.00	100.0	V	315.00	-6
1173.75	---	34.37	54.00	19.63	500.00	100.0	H	4.00	-5
1428.50	46.67	---	74.00	27.33	500.00	100.0	H	261.00	-4
1439.25	---	35.12	54.00	18.88	500.00	200.0	V	174.00	-4
1577.25	---	35.19	54.00	18.82	500.00	100.0	H	16.00	-4
1671.75	47.05	---	74.00	26.95	500.00	100.0	H	134.00	-3
1997.50	51.20	---	74.00	22.80	500.00	200.0	V	6.00	-1
1999.75	---	36.39	54.00	17.61	500.00	100.0	H	4.00	-2
2367.75	49.06	---	74.00	24.94	500.00	100.0	V	295.00	0
2376.75	---	37.03	54.00	16.97	500.00	100.0	V	315.00	0
2907.75	50.24	---	74.00	23.76	500.00	100.0	H	2.00	2
2973.00	---	38.88	54.00	15.12	500.00	100.0	H	91.00	2



Radiates Emission from 3GHz to 18GHz

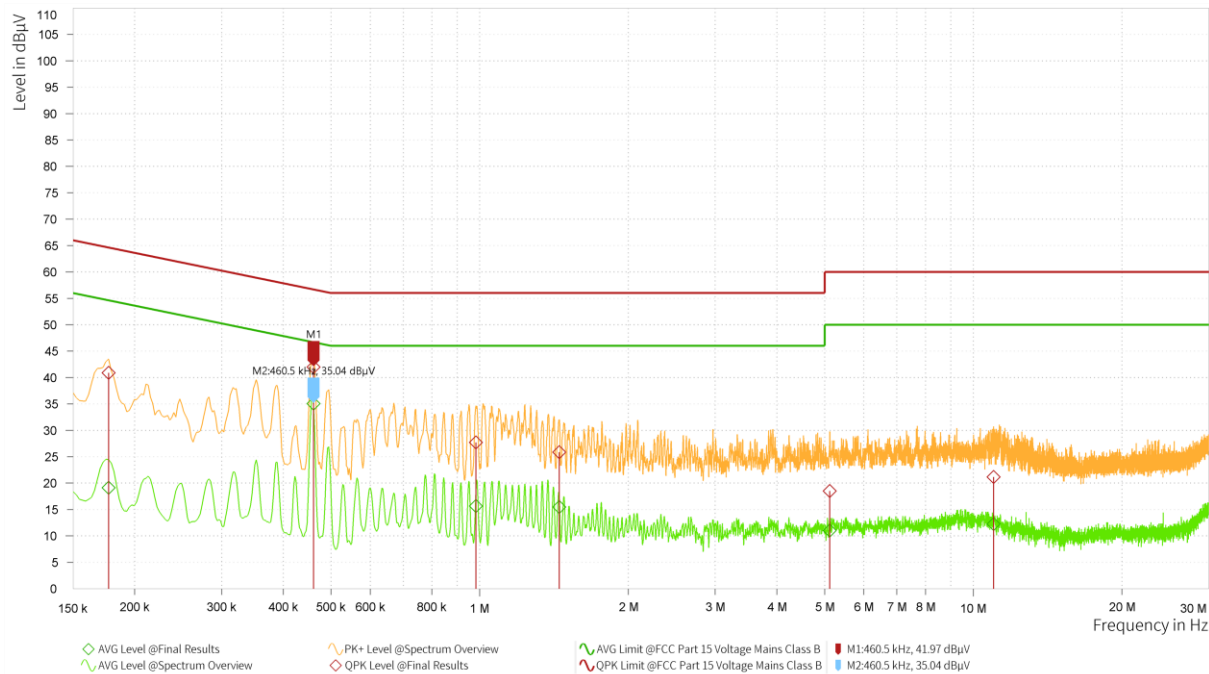
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3969.38	---	30.08	54.00	23.92	500.00	200.0	V	325.00	-4
3978.75	41.71	---	74.00	32.29	500.00	200.0	V	0.00	-4
5445.00	44.21	---	74.00	29.79	500.00	200.0	H	317.00	-2
5448.75	---	32.61	54.00	21.39	500.00	100.0	H	45.00	-2
7282.50	48.43	---	74.00	25.57	500.00	100.0	V	326.00	2
7290.00	---	36.55	54.00	17.45	500.00	200.0	H	317.00	2
9273.75	49.65	---	74.00	24.35	500.00	100.0	H	0.00	6
9300.00	---	38.21	54.00	15.79	500.00	100.0	V	357.00	6
11272.50	---	39.70	54.00	14.30	500.00	100.0	V	326.00	7
11386.88	50.34	---	74.00	23.66	500.00	100.0	H	56.00	7
14403.75	---	41.78	54.00	12.22	500.00	200.0	H	358.00	9
14418.75	53.14	---	74.00	20.86	500.00	200.0	V	199.00	8

2. Conducted Emission

2.1. Wi-Fi 2.4GHz

Configuration 3:

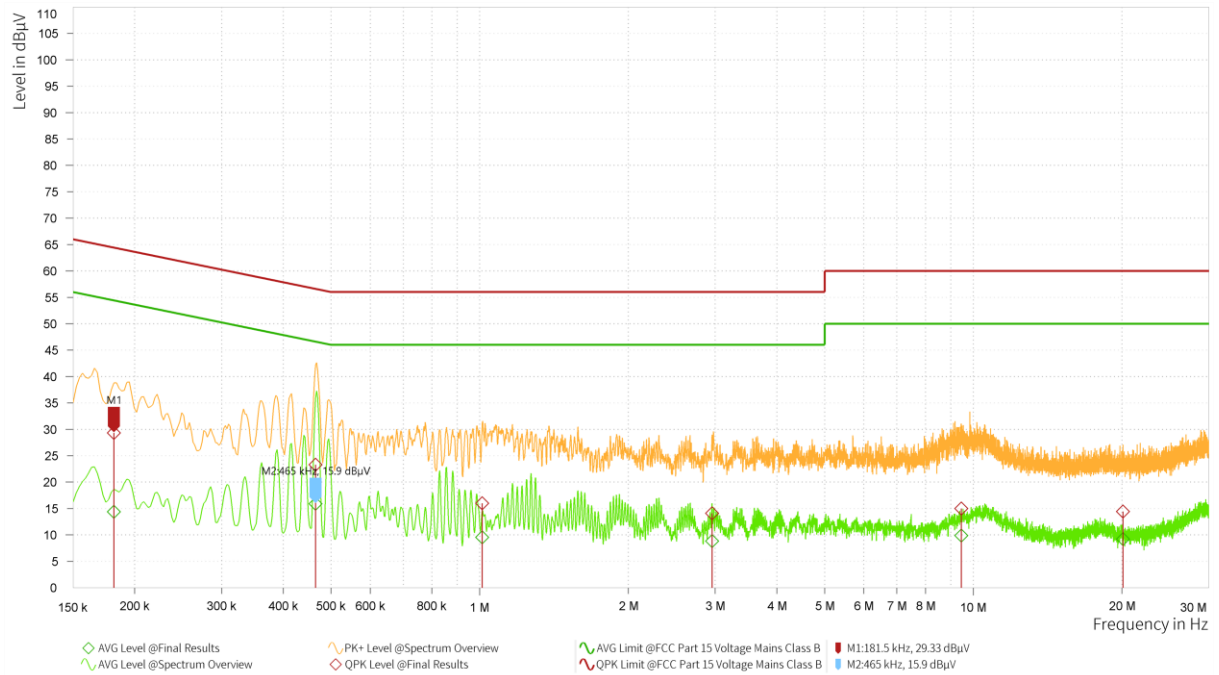
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.177	40.90	64.63	23.73	19.14	54.63	35.49	21.03	L1	9.000	1.000
0.461	41.97	56.68	14.71	35.04	46.68	11.64	20.82	L1	9.000	1.000
0.983	27.72	56.00	28.28	15.64	46.00	30.36	20.17	L1	9.000	1.000
1.448	25.86	56.00	30.14	15.46	46.00	30.54	19.87	L1	9.000	1.000
5.120	18.48	60.00	41.52	11.03	50.00	38.97	19.40	L1	9.000	1.000
10.988	21.14	60.00	38.86	12.23	50.00	37.77	19.41	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



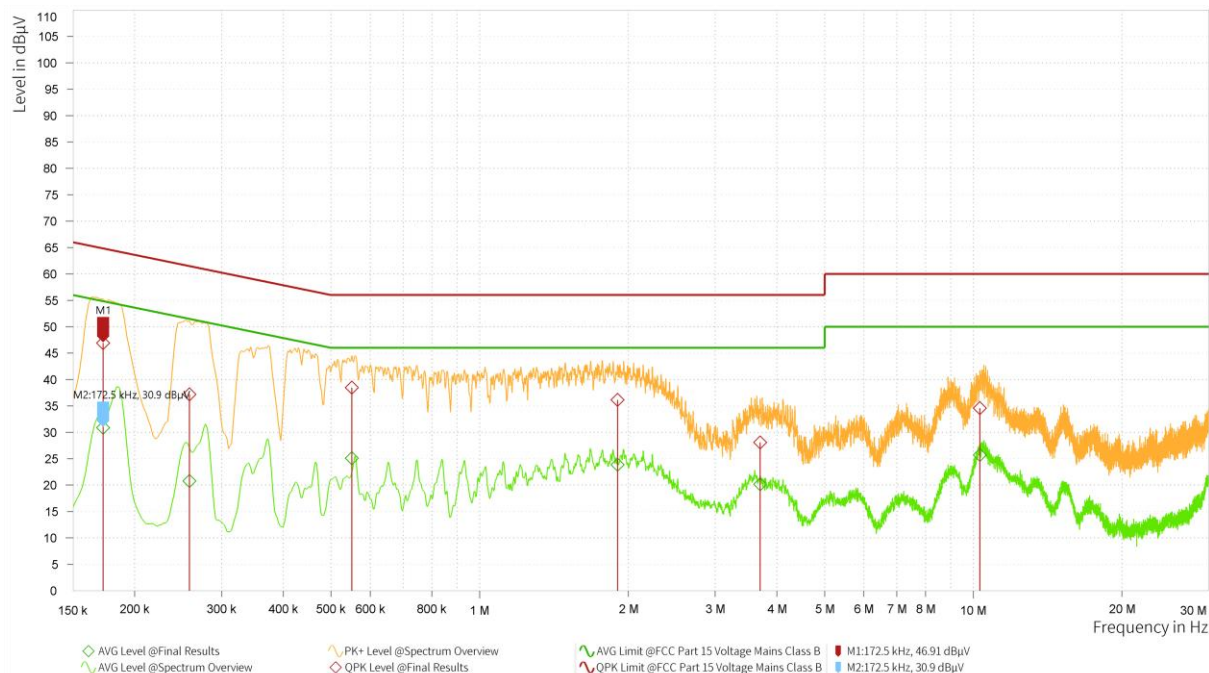
Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.182	29.33	64.42	35.09	14.39	54.42	40.03	21.04	N	9.000	1.000
0.465	23.31	56.60	33.29	15.90	46.60	30.71	20.82	N	9.000	1.000
1.012	16.00	56.00	40.00	9.56	46.00	36.44	20.16	N	9.000	1.000
2.956	14.09	56.00	41.91	8.84	46.00	37.16	19.50	N	9.000	1.000
9.452	14.98	60.00	45.02	9.89	50.00	40.11	19.43	N	9.000	1.000
20.108	14.40	60.00	45.60	9.19	50.00	40.81	19.71	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

Configuration 4:

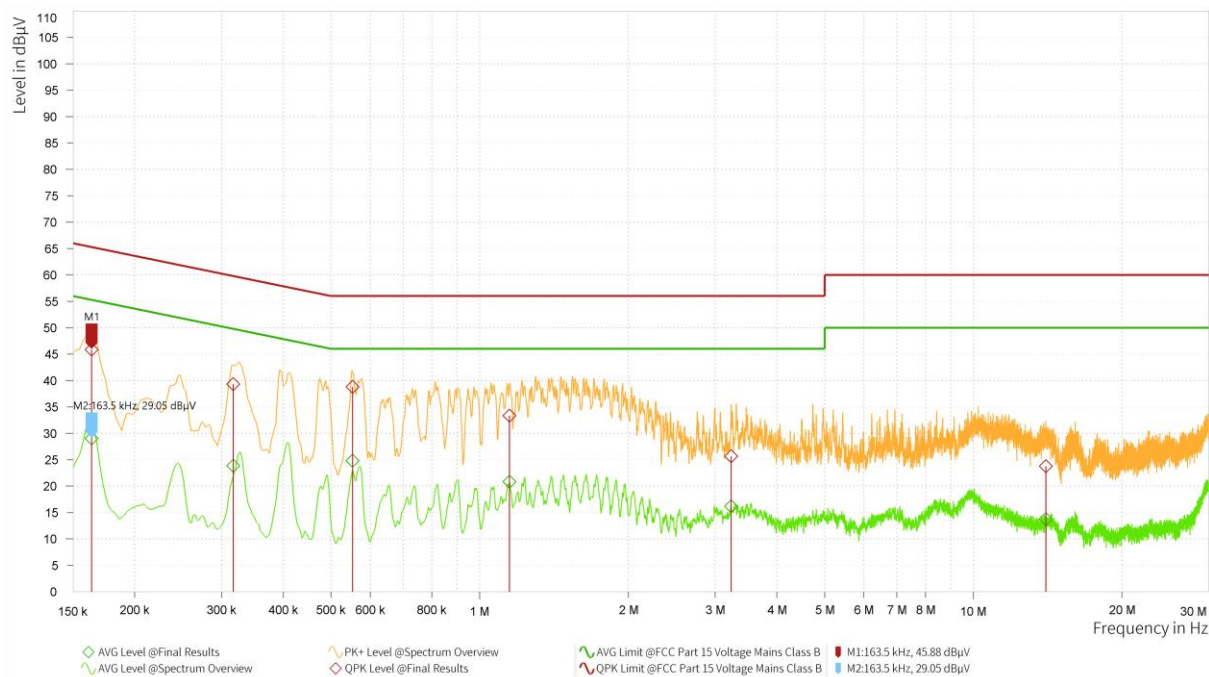
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.173	46.91	64.84	17.93	30.90	54.84	23.94	20.89	L1	9.000	1.000
0.258	37.20	61.50	24.29	20.80	51.50	30.70	20.97	L1	9.000	1.000
0.551	38.49	56.00	17.51	25.09	46.00	20.91	20.73	L1	9.000	1.000
1.903	36.15	56.00	19.85	23.84	46.00	22.16	19.68	L1	9.000	1.000
3.701	28.06	56.00	27.94	20.17	46.00	25.83	19.44	L1	9.000	1.000
10.313	34.57	60.00	25.43	25.73	50.00	24.27	19.42	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.164	45.88	65.28	19.40	29.05	55.28	26.24	20.90	N	9.000	1.000
0.317	39.31	59.80	20.48	23.85	49.80	25.95	20.94	N	9.000	1.000
0.553	38.81	56.00	17.19	24.79	46.00	21.21	20.73	N	9.000	1.000
1.149	33.33	56.00	22.67	20.81	46.00	25.19	20.06	N	9.000	1.000
3.233	25.66	56.00	30.34	16.18	46.00	29.82	19.48	N	9.000	1.000
14.039	23.75	60.00	36.25	13.75	50.00	36.25	19.50	N	9.000	1.000

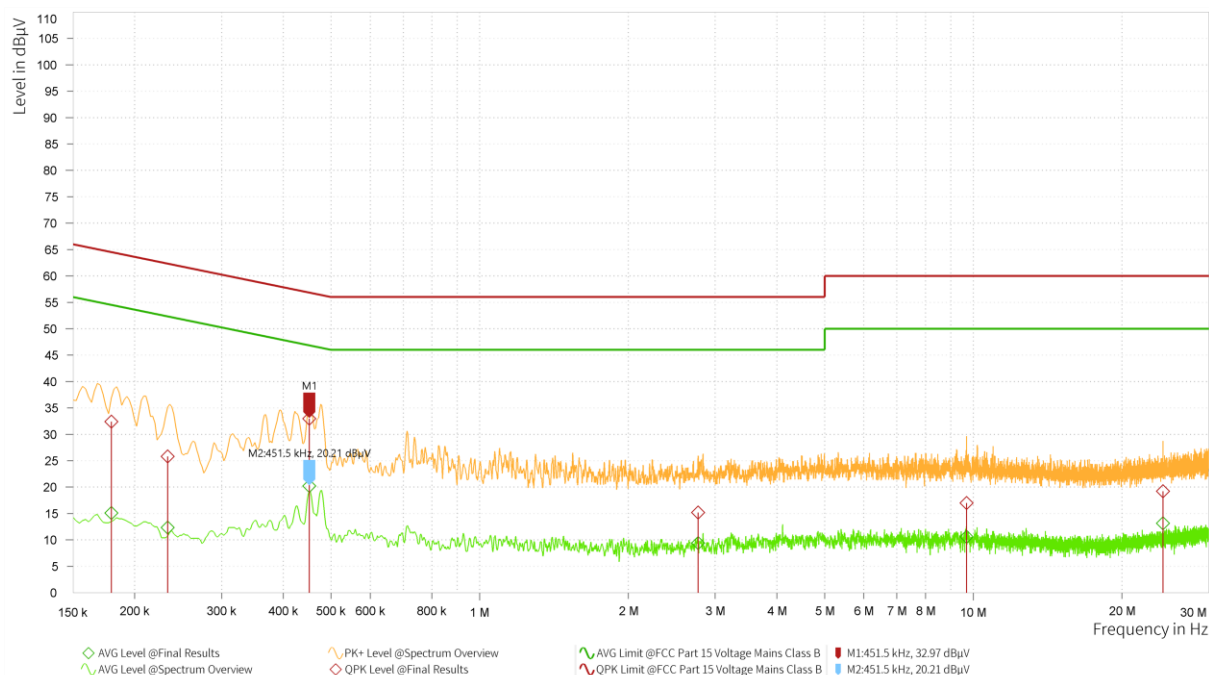
Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

2.2. Bluetooth LE

Configuration 3:

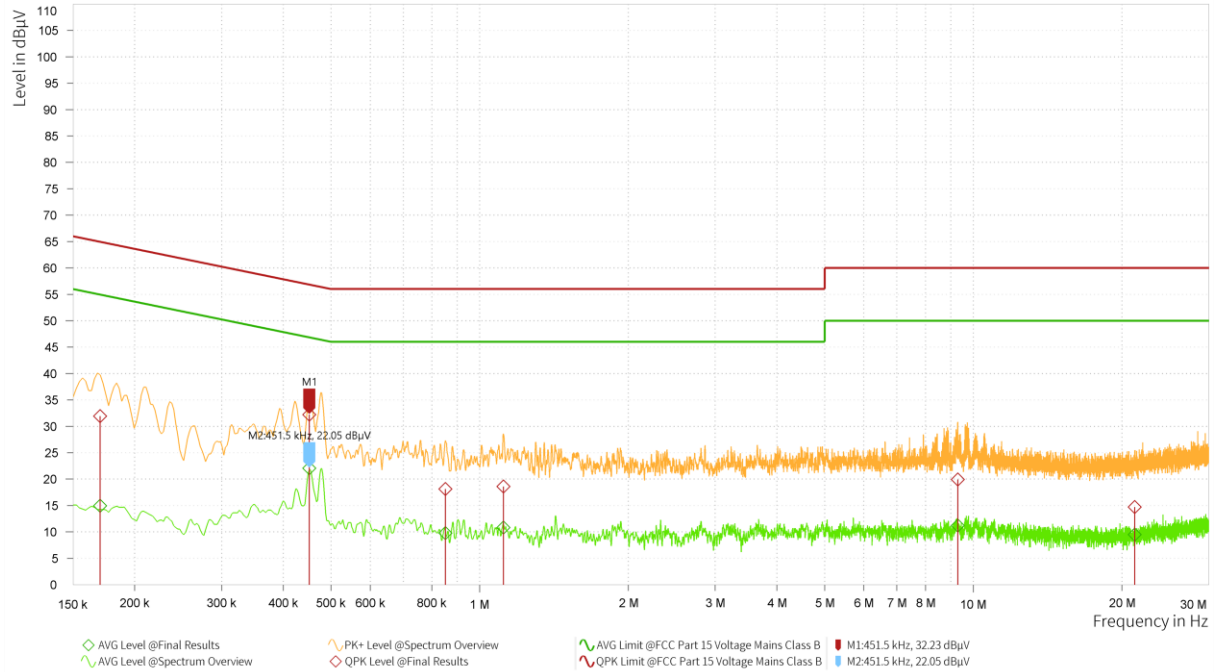
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.179	32.38	64.52	32.14	15.08	54.52	39.44	21.03	L1	9.000	1.000
0.233	25.82	62.33	36.52	12.33	52.33	40.00	20.99	L1	9.000	1.000
0.452	32.97	56.85	23.88	20.21	46.85	26.64	20.82	L1	9.000	1.000
2.769	15.17	56.00	40.83	9.38	46.00	36.62	19.51	L1	9.000	1.000
9.688	16.97	60.00	43.03	10.57	50.00	39.43	19.41	L1	9.000	1.000
24.223	19.23	60.00	40.77	13.15	50.00	36.85	19.79	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



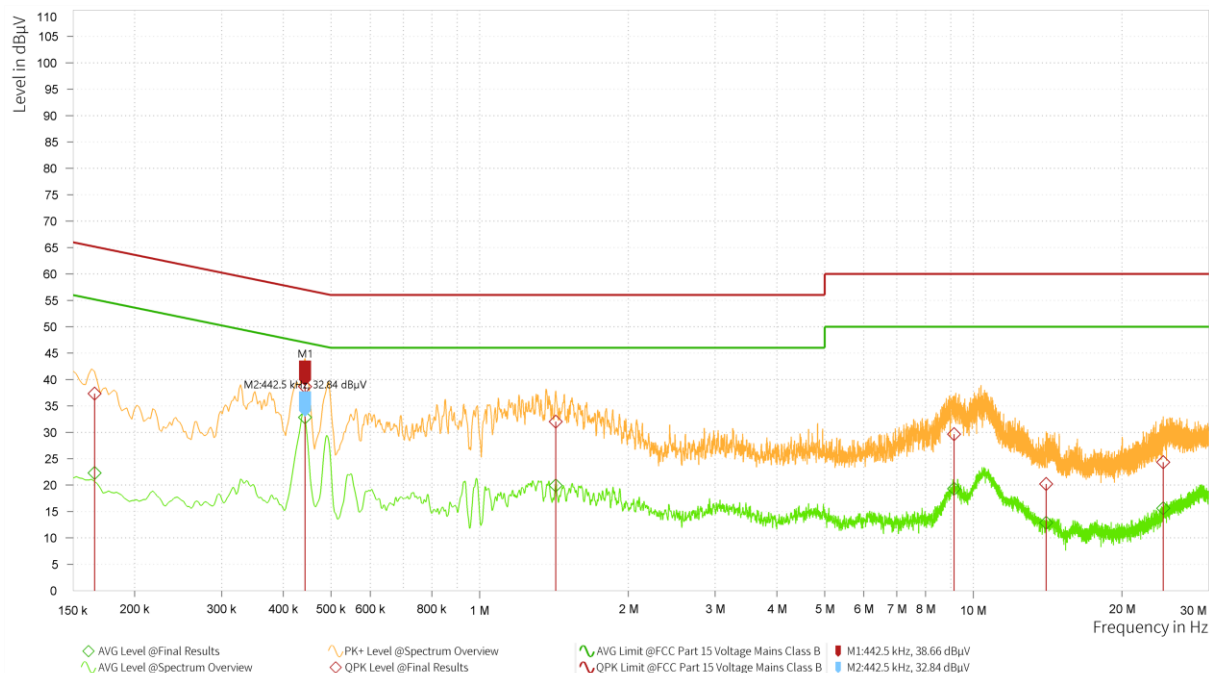
Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.170	31.90	64.95	33.04	14.96	54.95	39.99	20.90	N	9.000	1.000
0.452	32.23	56.85	24.62	22.05	46.85	24.80	20.83	N	9.000	1.000
0.852	18.14	56.00	37.86	9.75	46.00	36.25	20.29	N	9.000	1.000
1.118	18.57	56.00	37.43	10.83	46.00	35.17	20.08	N	9.000	1.000
9.301	19.92	60.00	40.08	11.19	50.00	38.81	19.43	N	9.000	1.000
21.226	14.68	60.00	45.32	9.49	50.00	40.51	19.74	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

Configuration 4:

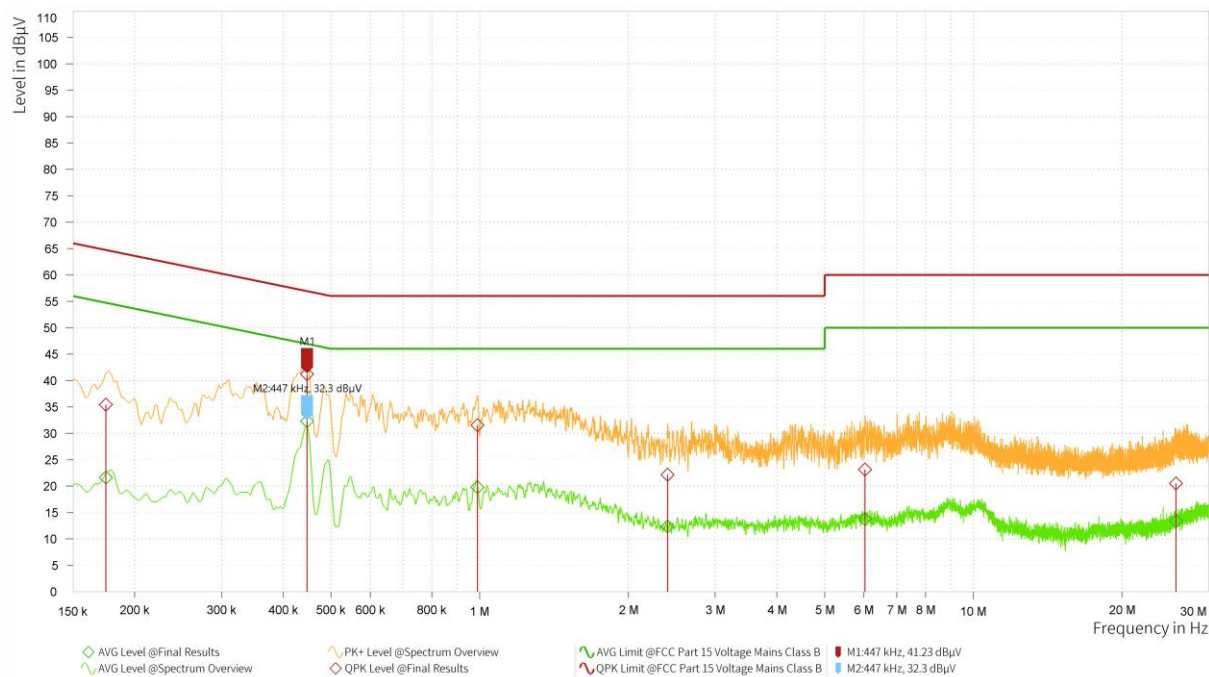
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.166	37.34	65.17	27.83	22.28	55.17	32.89	20.89	L1	9.000	1.000
0.443	38.66	57.01	18.35	32.84	47.01	14.18	20.84	L1	9.000	1.000
1.426	32.01	56.00	23.99	19.93	46.00	26.07	19.88	L1	9.000	1.000
9.141	29.63	60.00	30.37	19.30	50.00	30.70	19.41	L1	9.000	1.000
14.051	20.21	60.00	39.79	12.86	50.00	37.14	19.48	L1	9.000	1.000
24.257	24.34	60.00	35.66	15.60	50.00	34.40	19.79	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.175	35.41	64.73	29.32	21.65	54.73	33.08	21.04	N	9.000	1.000
0.447	41.23	56.93	15.70	32.30	46.93	14.63	20.84	N	9.000	1.000
0.989	31.55	56.00	24.45	19.77	46.00	26.23	20.18	N	9.000	1.000
2.402	22.17	56.00	33.83	12.35	46.00	33.65	19.57	N	9.000	1.000
6.032	23.13	60.00	36.87	13.78	50.00	36.22	19.41	N	9.000	1.000
25.760	20.50	60.00	39.50	13.36	50.00	36.64	19.87	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz