

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

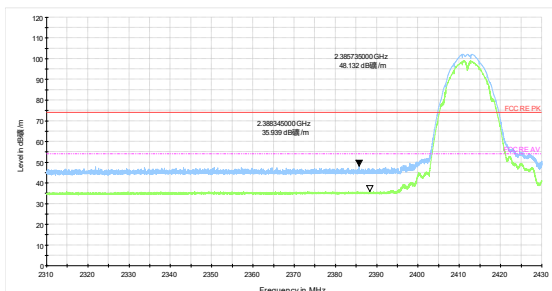
1.1. Wi-Fi 2.4GHz

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.

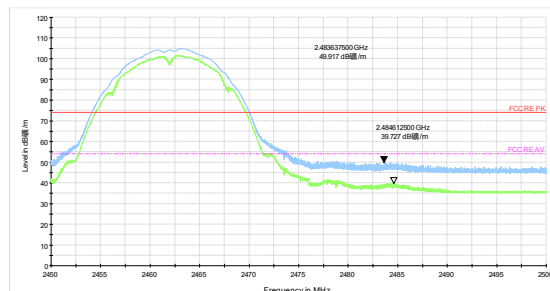
A symbol ($\text{dB}\mu\text{V}/\text{m}$) in the test plot below means ($\text{dB}\mu\text{V}/\text{m}$)

Configuration 1:

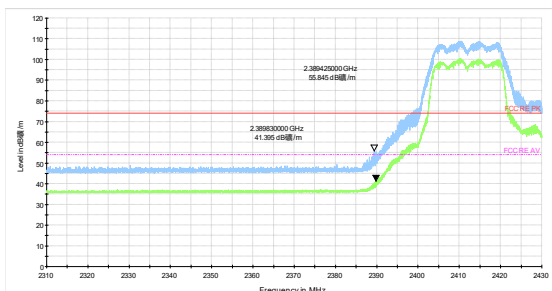
The signal beyond the limit is carrier.



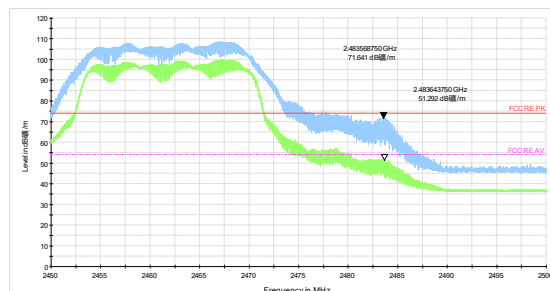
802.11b-Channel 1 Peak+ Average



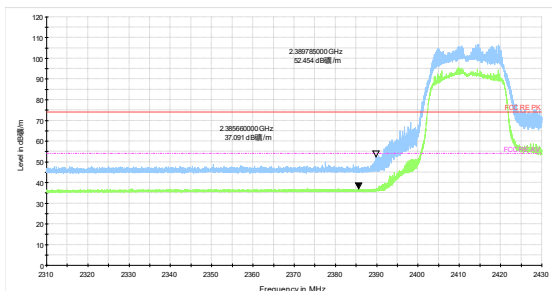
802.11b-Channel 11 Peak+ Average



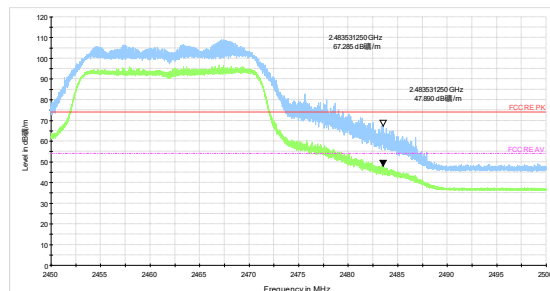
802.11g-Channel 1 Peak+ Average



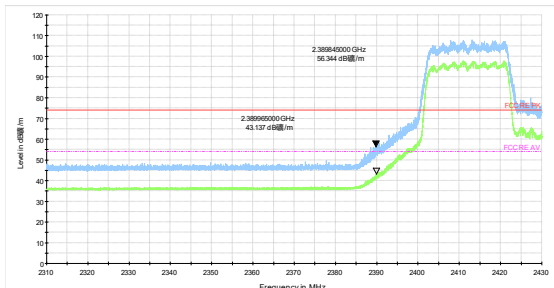
802.11g-Channel 11 Peak+ Average



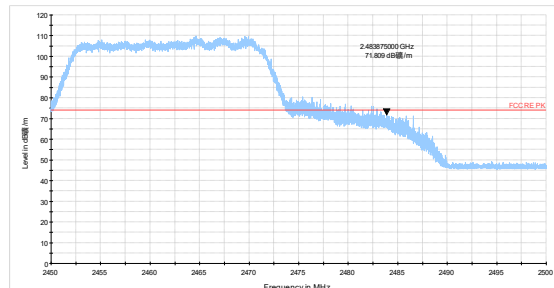
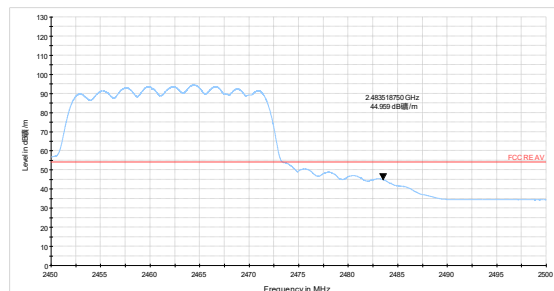
802.11n HT20-Channel 1 Peak+ Average



802.11n HT20-Channel 11 Peak+ Average

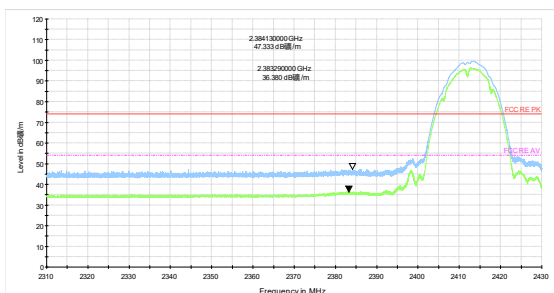


802.11ax HE20-Channel 1 Peak+ Average

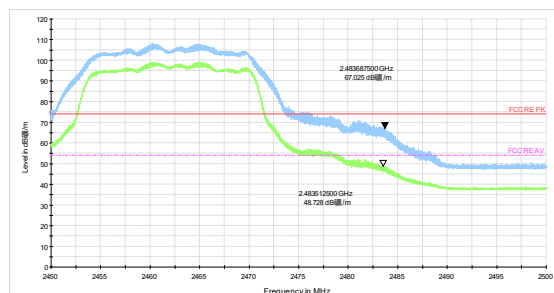


802.11ax HE20-Channel 11 Peak+ Average

Configuration 5:



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 horizontal and vertical 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

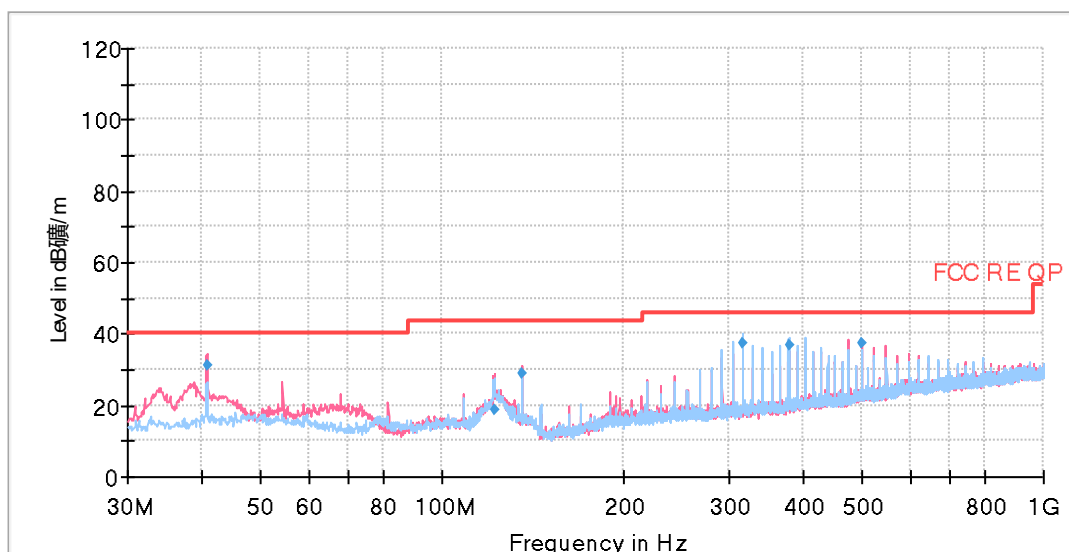
 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit

 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit

Continuous TX mode:

Configuration 1:

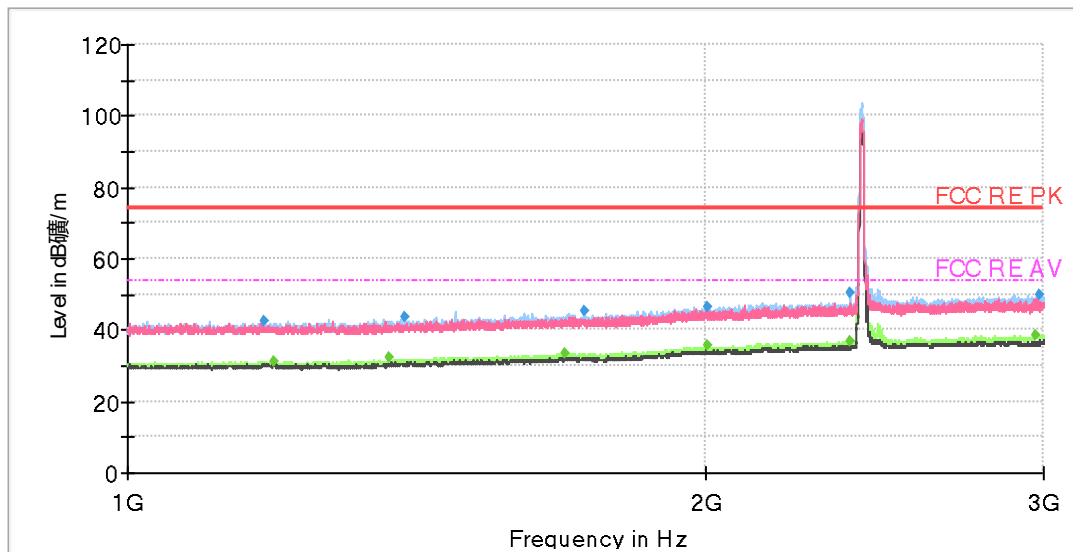
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



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

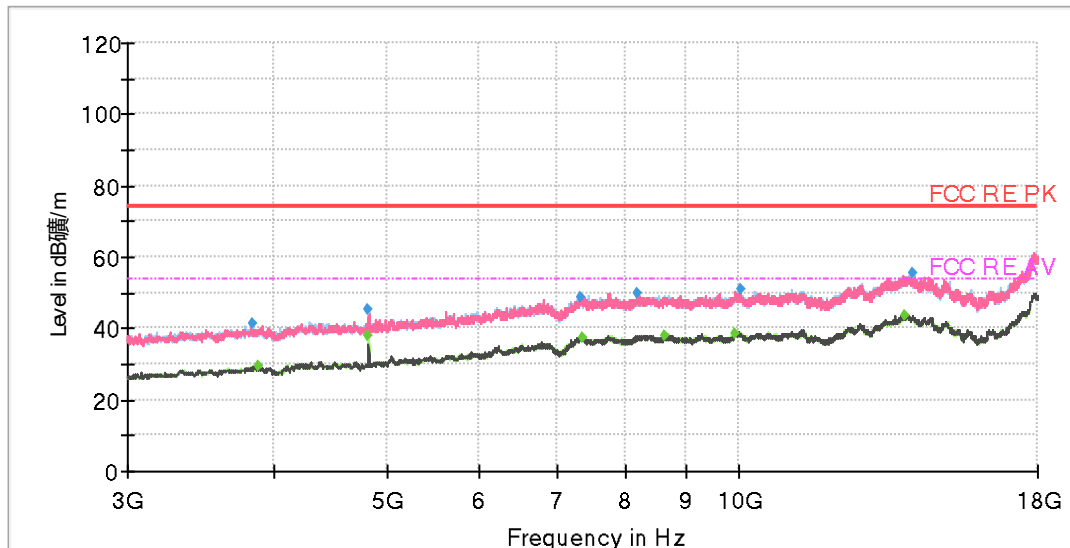
802.11b CH1



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

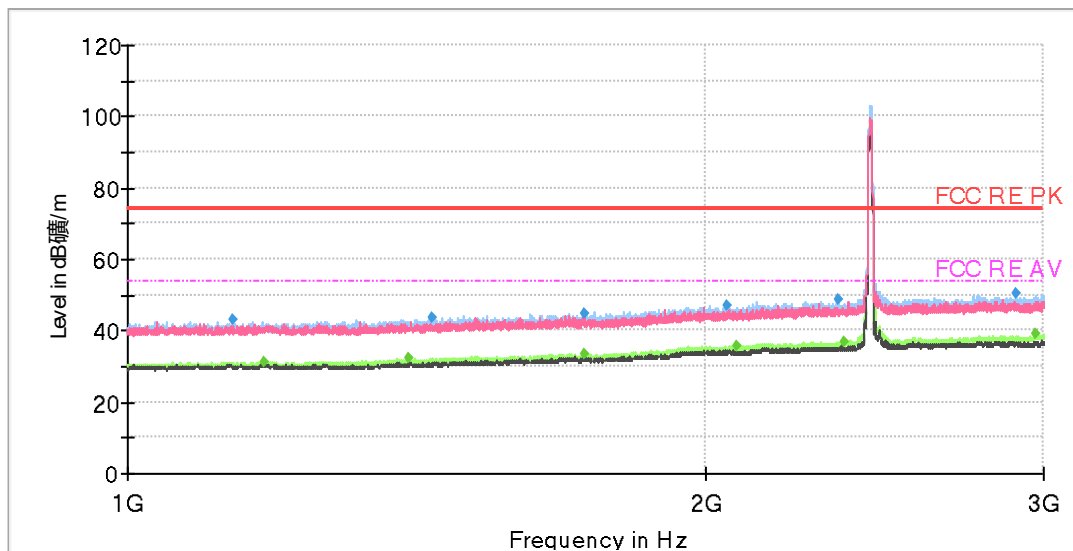
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1178.50	42.36	---	74.00	31.64	500.00	100.0	H	354.00	-4
1191.50	---	31.29	54.00	22.71	500.00	100.0	H	345.00	-4
1369.25	---	32.14	54.00	21.86	500.00	100.0	H	356.00	-3
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

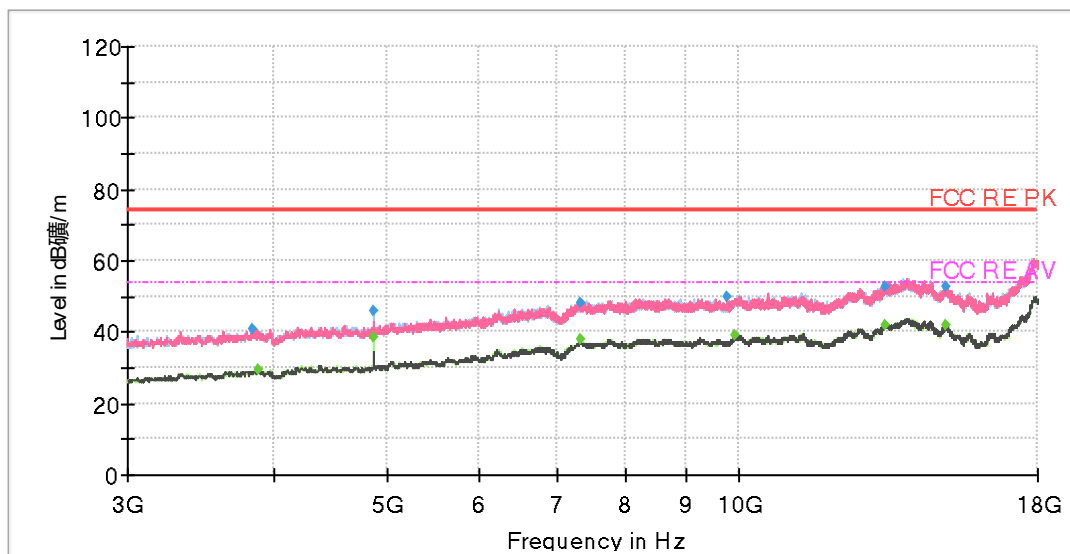
802.11b CH6



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.

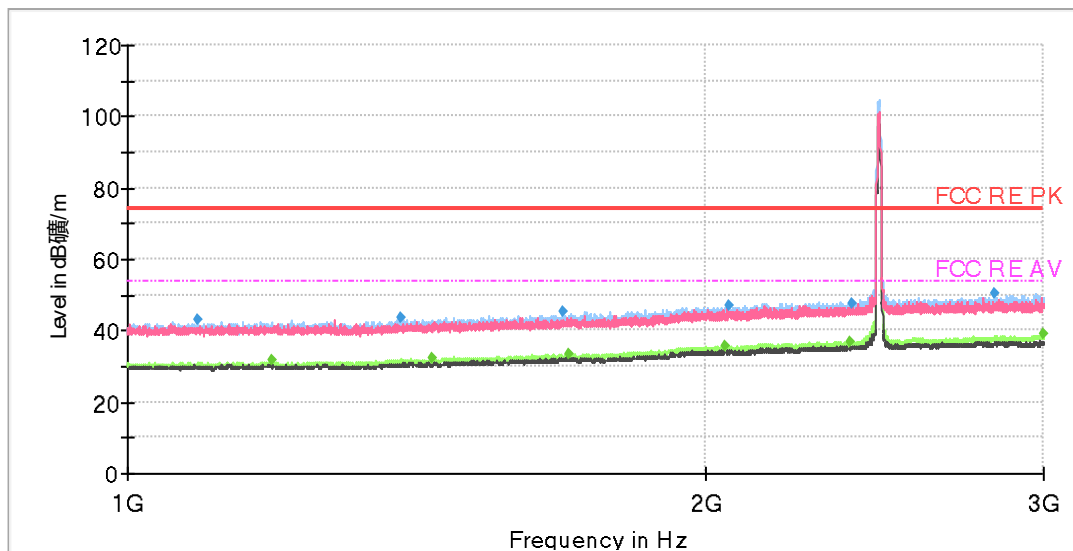
Radiates Emission from 1GHz to 3GHz



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

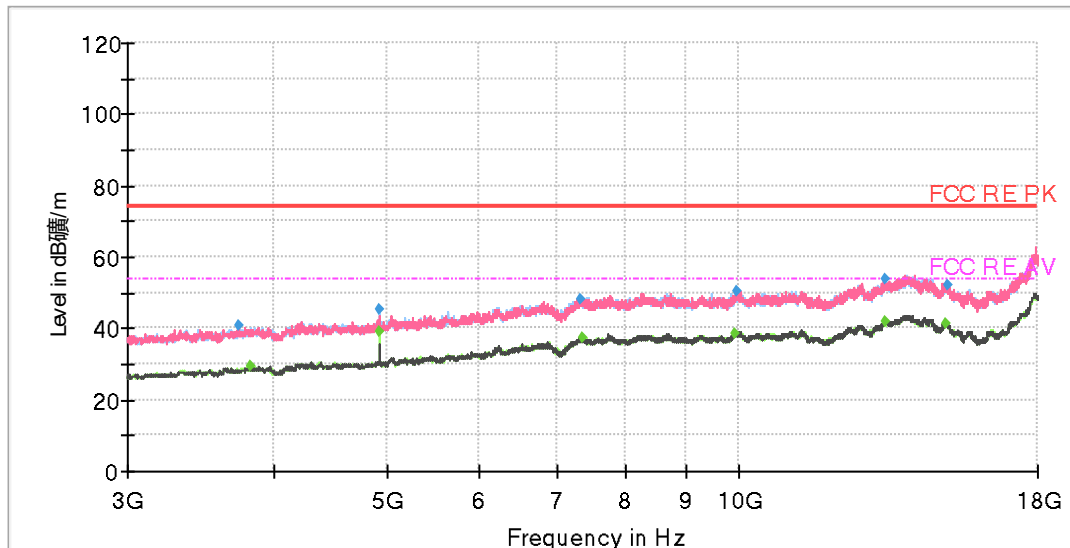
802.11b CH11



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.

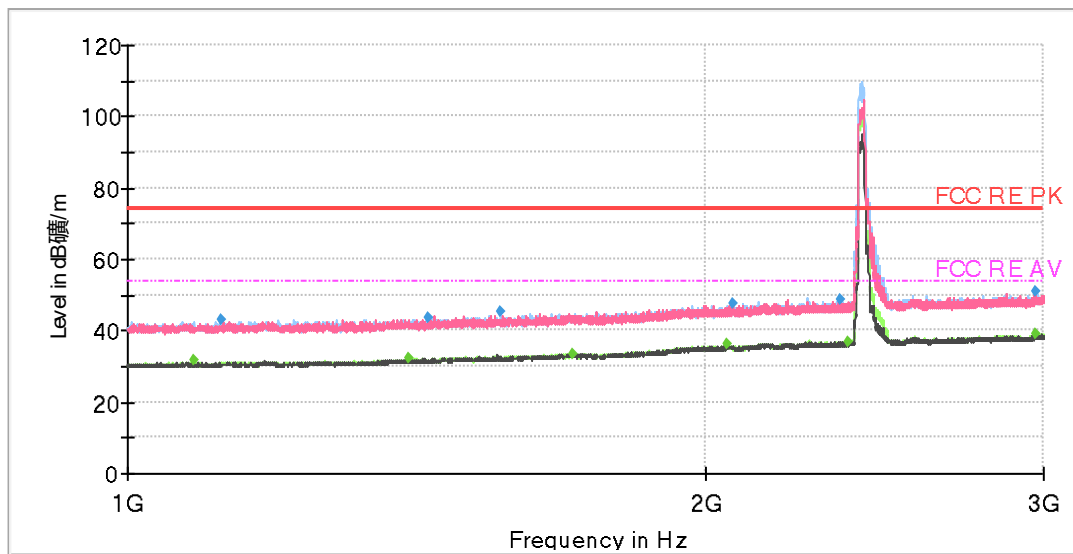
Radiates Emission from 1GHz to 3GHz



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

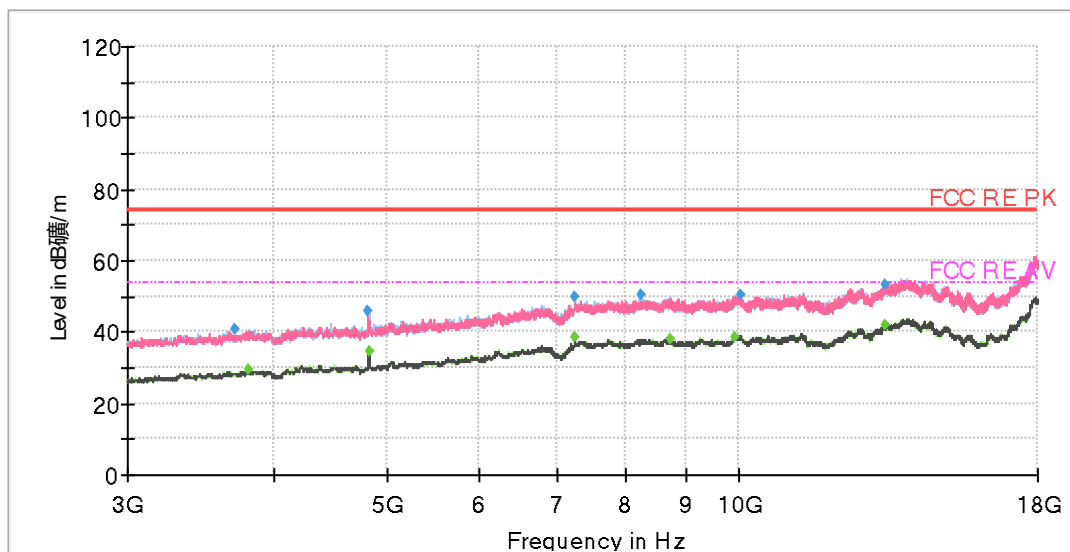
802.11g CH1



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.

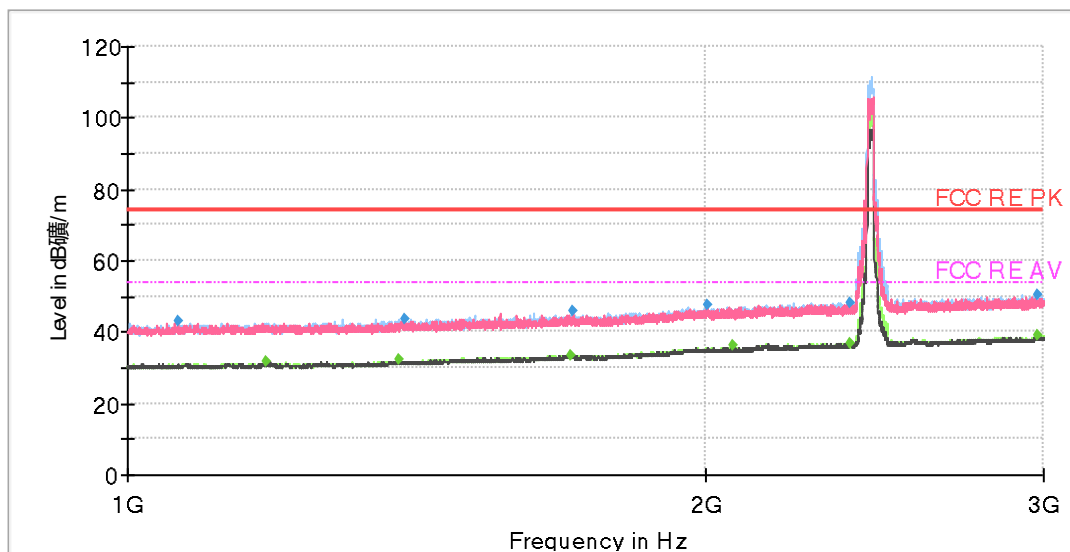
Radiates Emission from 1GHz to 3GHz



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

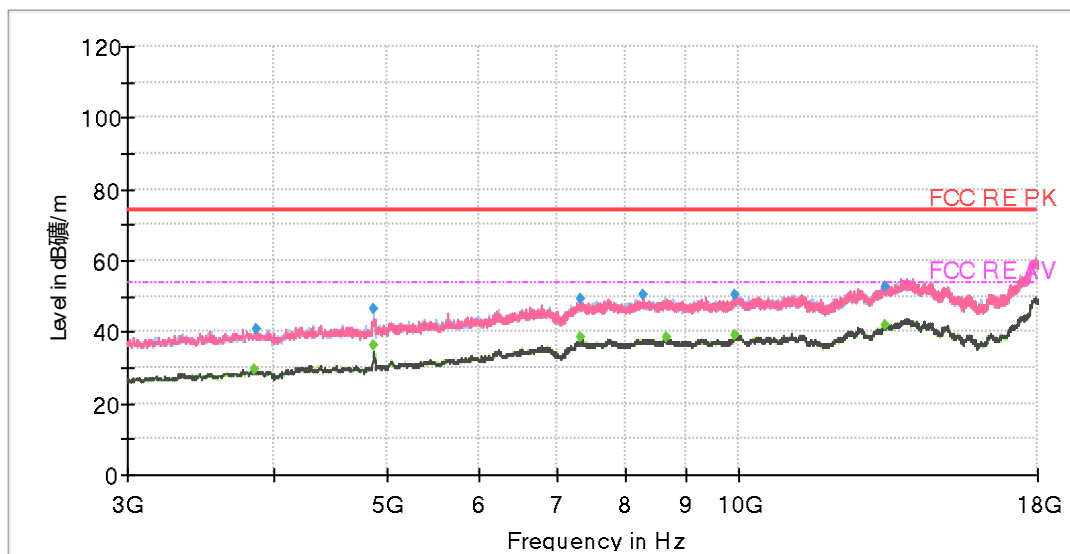
802.11g CH6



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.

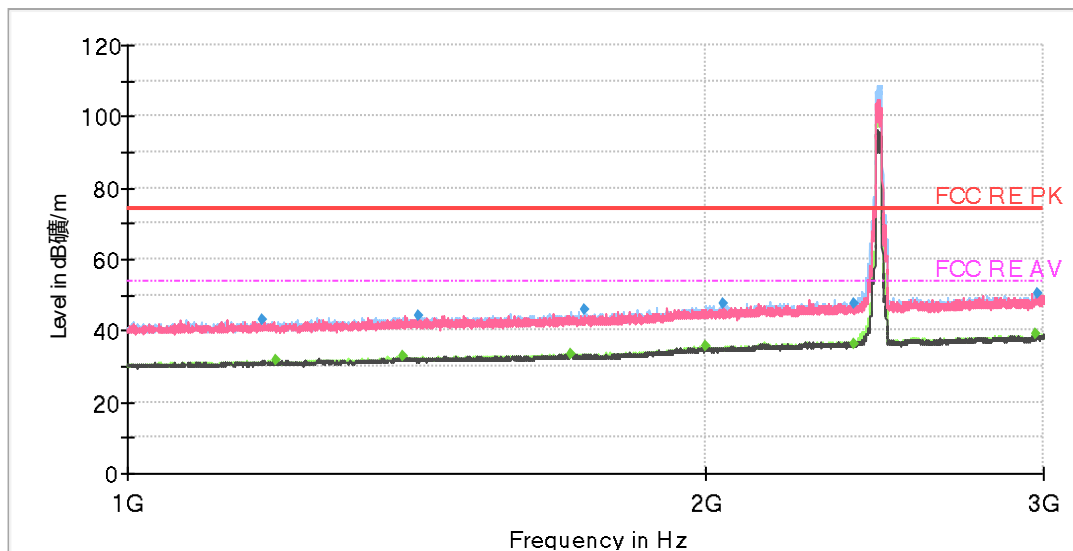
Radiates Emission from 1GHz to 3GHz



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

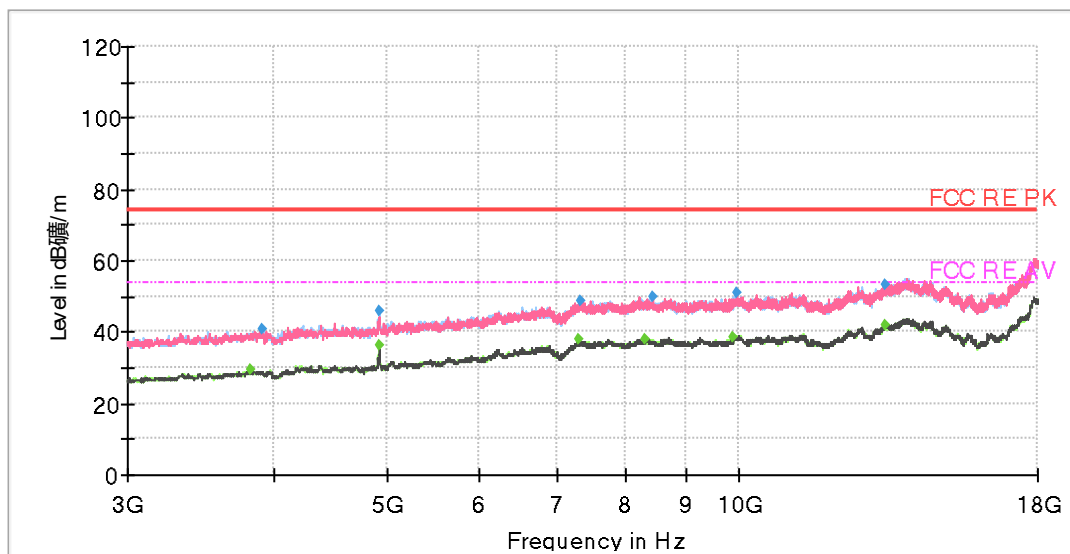
802.11g CH11



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.

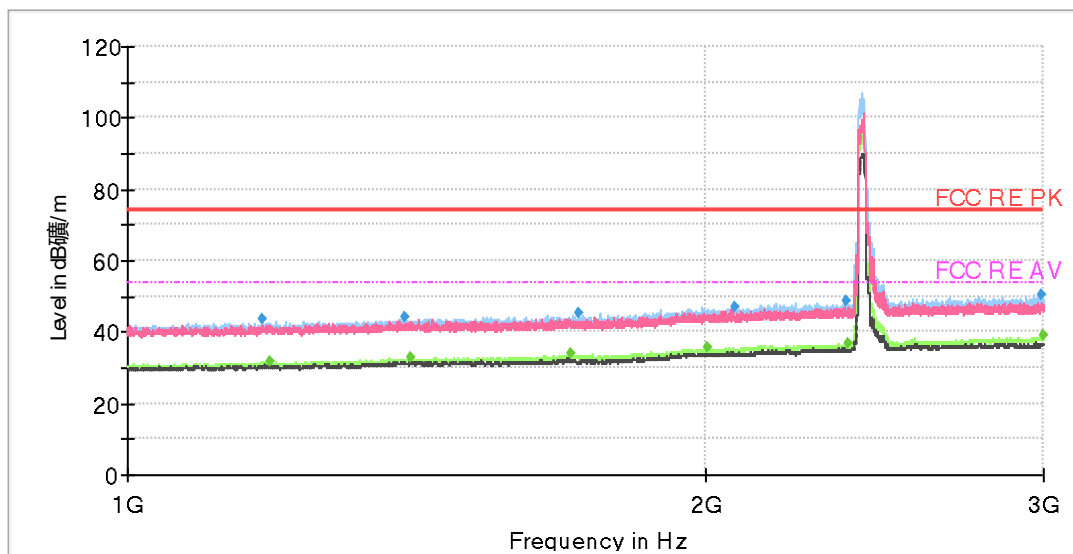
Radiates Emission from 1GHz to 3GHz



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

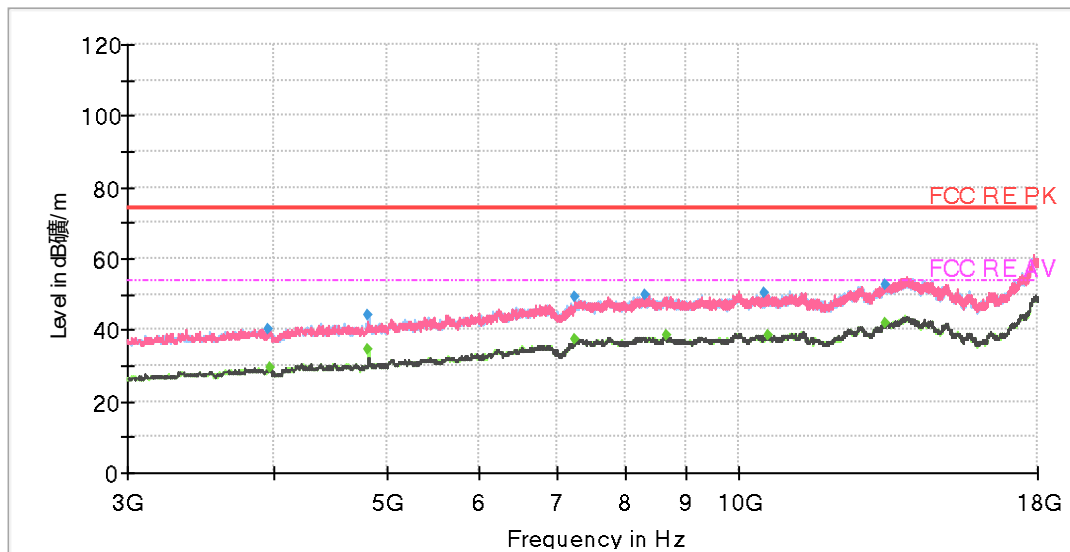
802.11n (HT20) CH1



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.

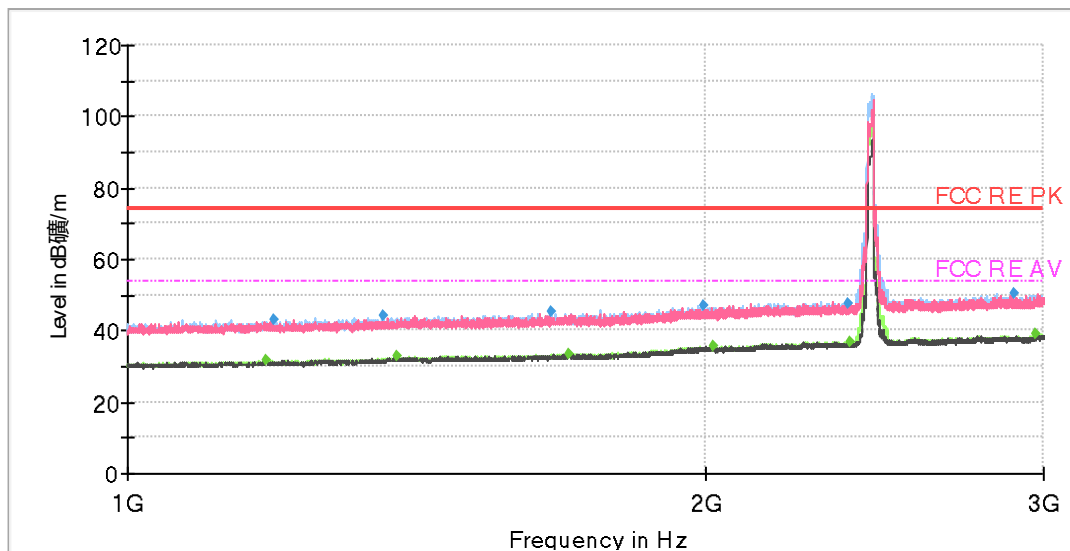
Radiates Emission from 1GHz to 3GHz



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

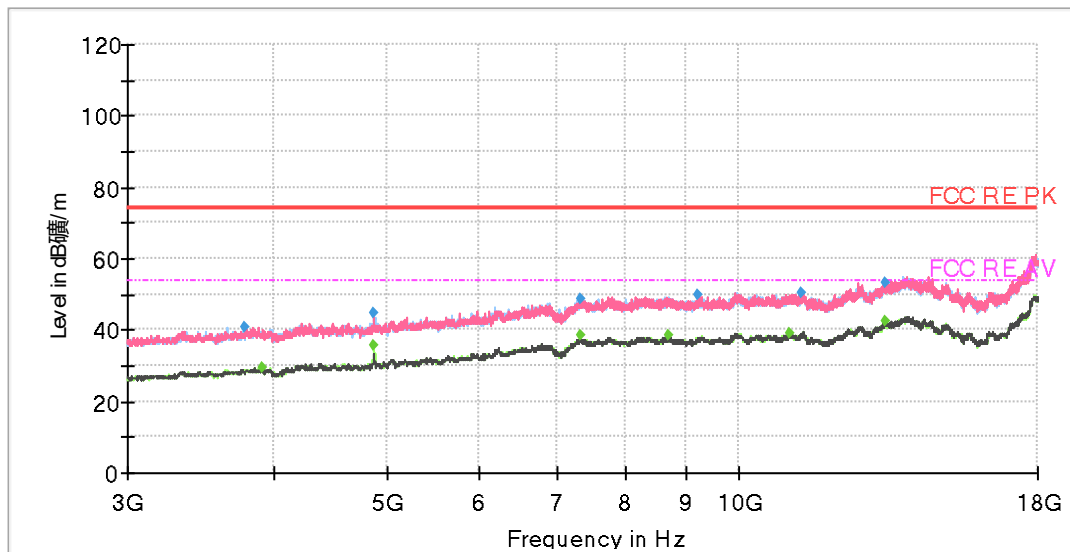
802.11n (HT20) CH6



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.

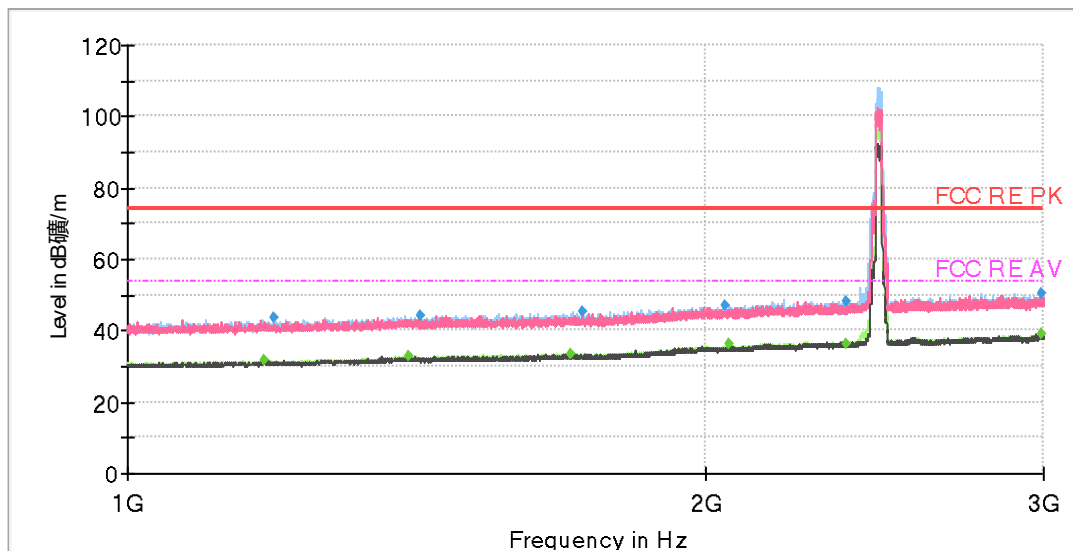
Radiates Emission from 1GHz to 3GHz



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

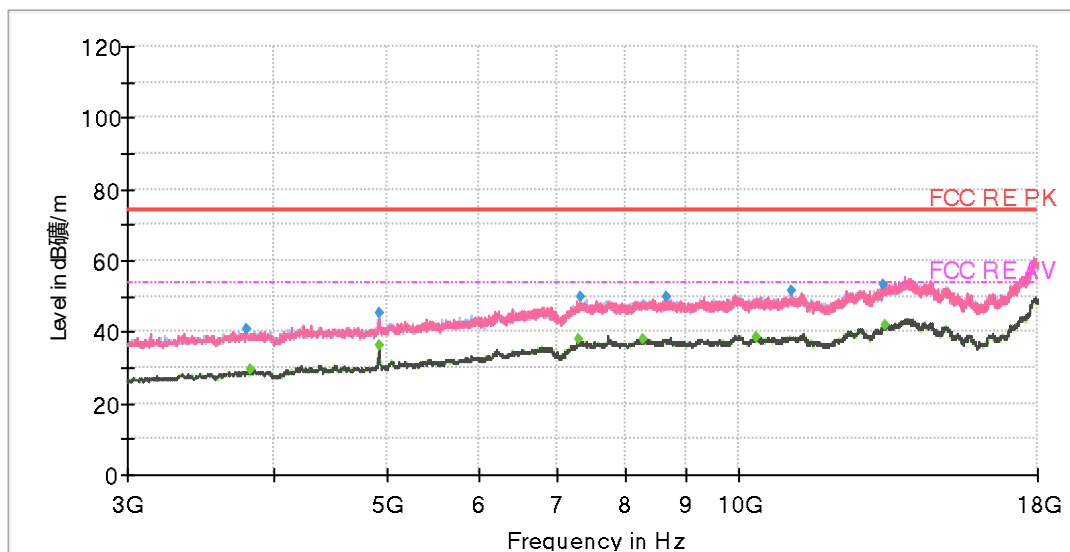
802.11n (HT20) CH11



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.

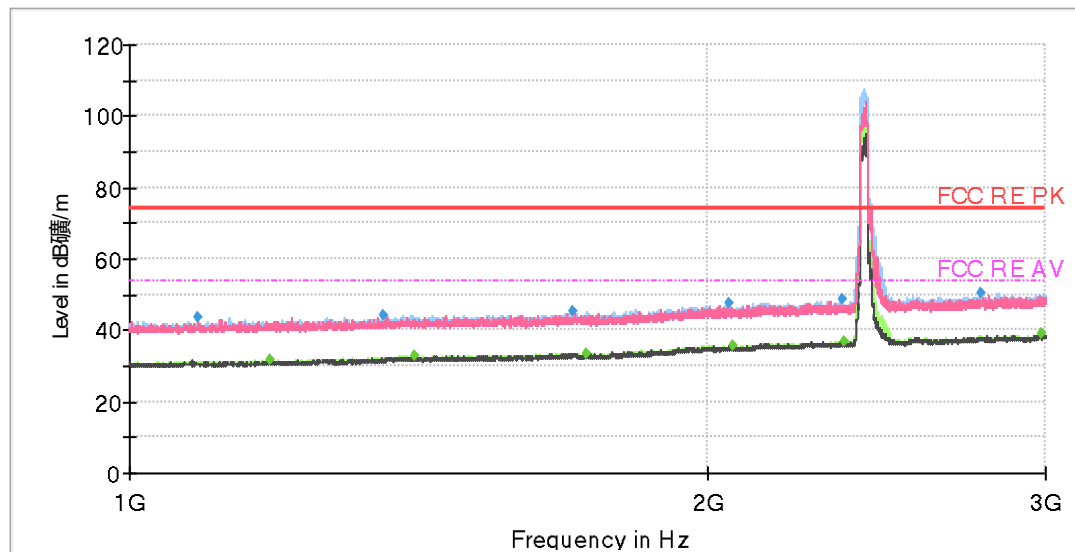
Radiates Emission from 1GHz to 3GHz



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

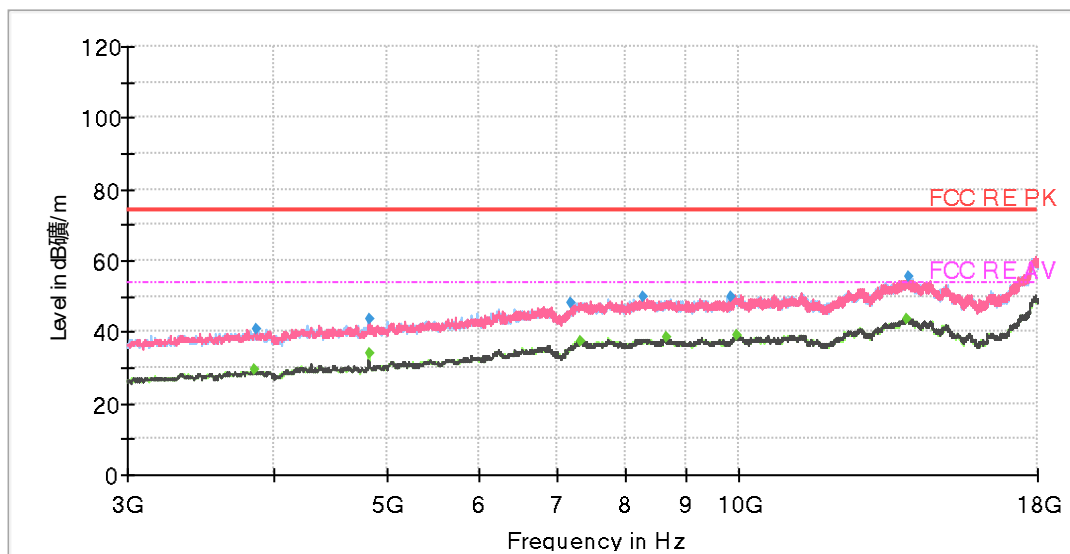
Radiates Emission from 3GHz to 18GHz

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

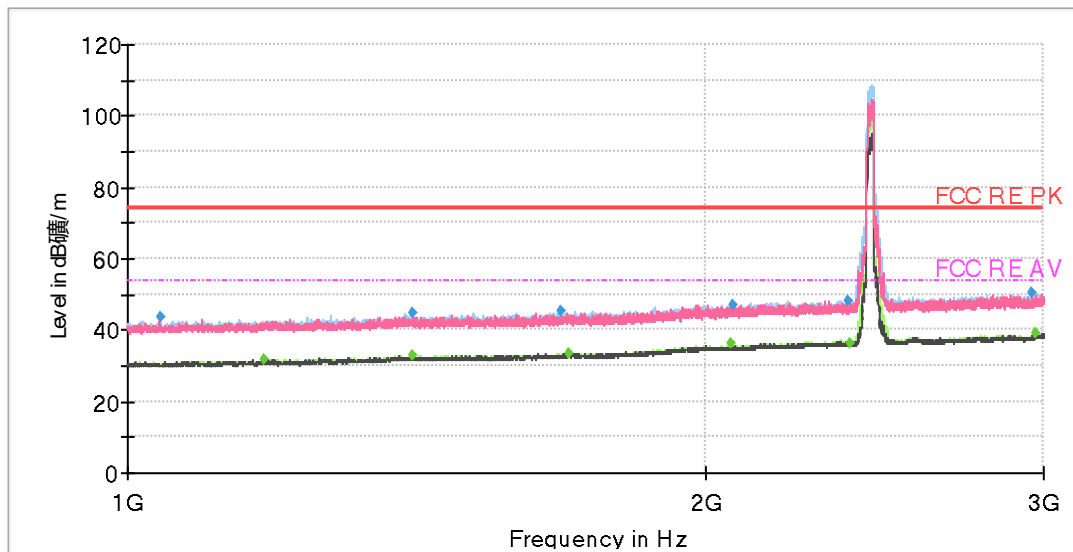
Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



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

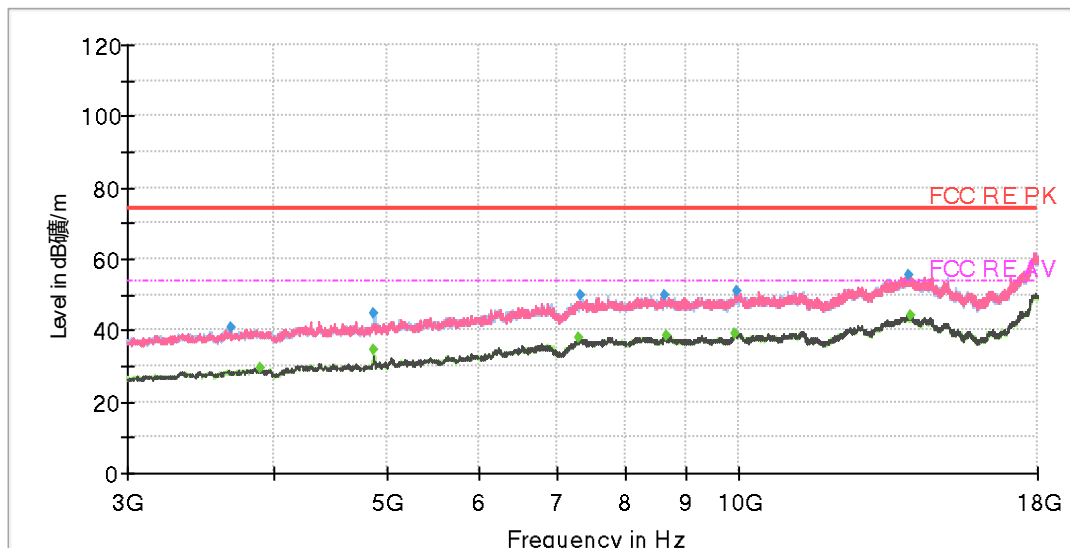
802.11ax HE20 CH6



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.

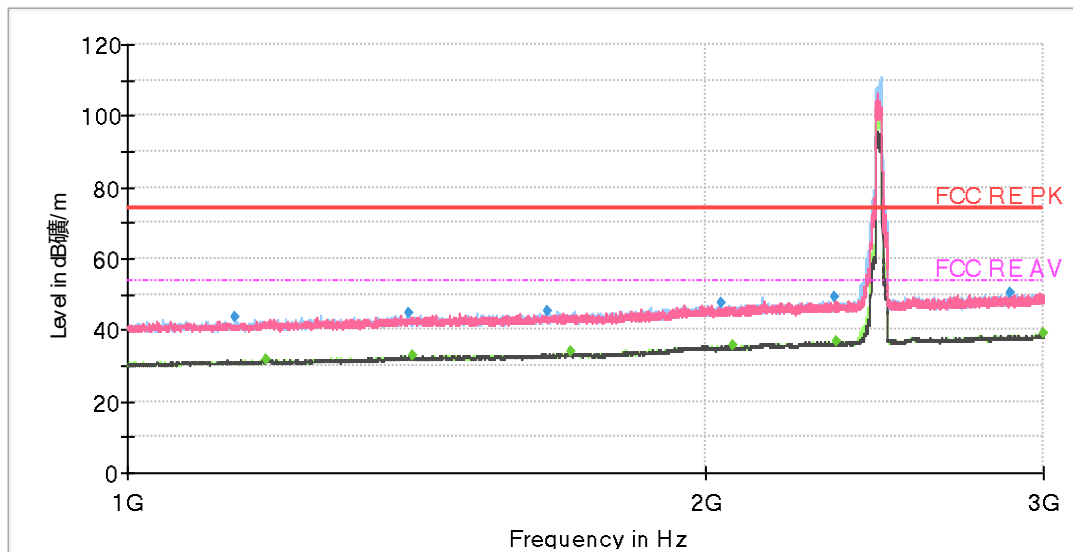
Radiates Emission from 1GHz to 3GHz



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

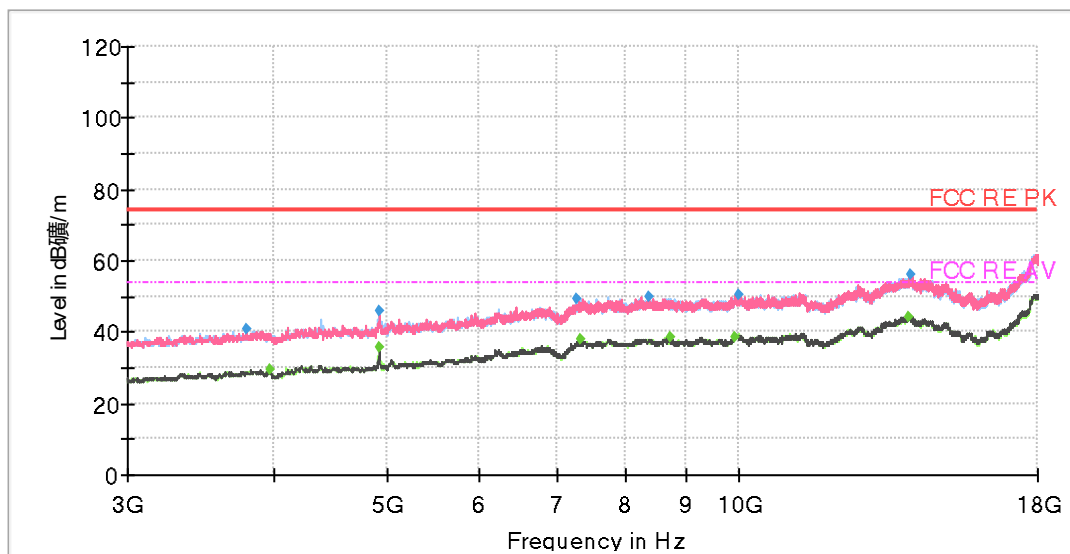
802.11ax HE20 CH11



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

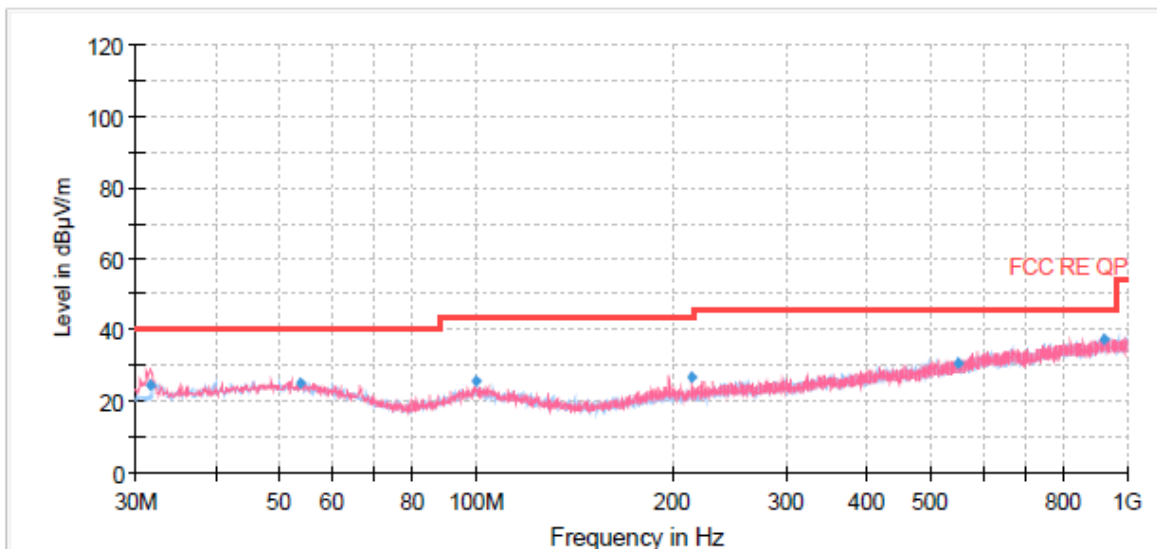


Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3795.00	40.52	---	74.00	33.48	500.00	100.0	V	292.00	-5
3969.38	---	29.51	54.00	24.49	500.00	100.0	V	51.00	-4
4923.75	---	35.62	54.00	18.38	500.00	100.0	H	266.00	-1
4929.38	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

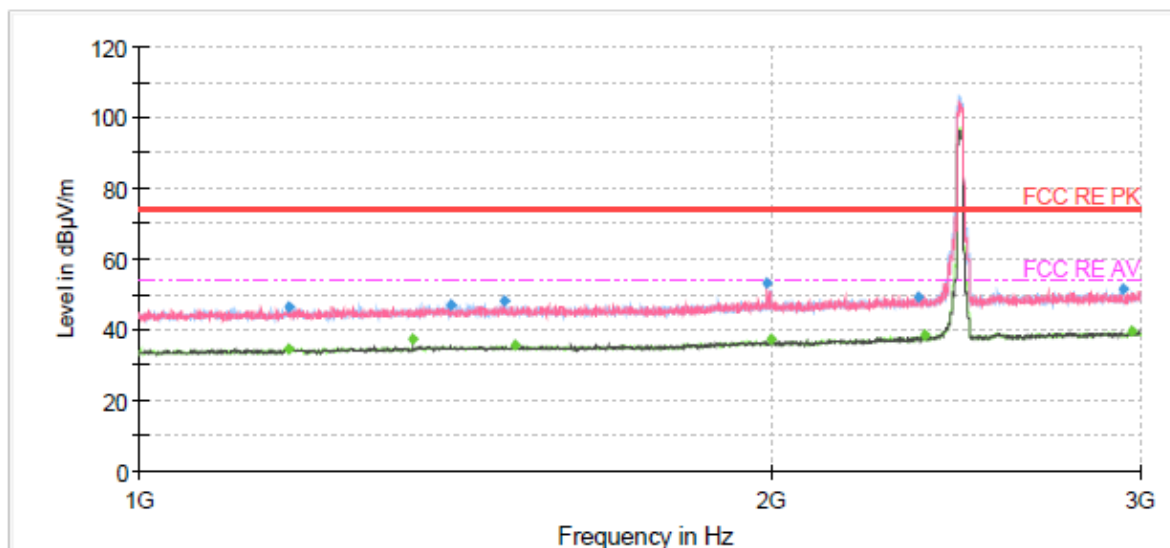
Configuration 5:

802.11g CH11



Radiates Emission from 30MHz to 1GHz

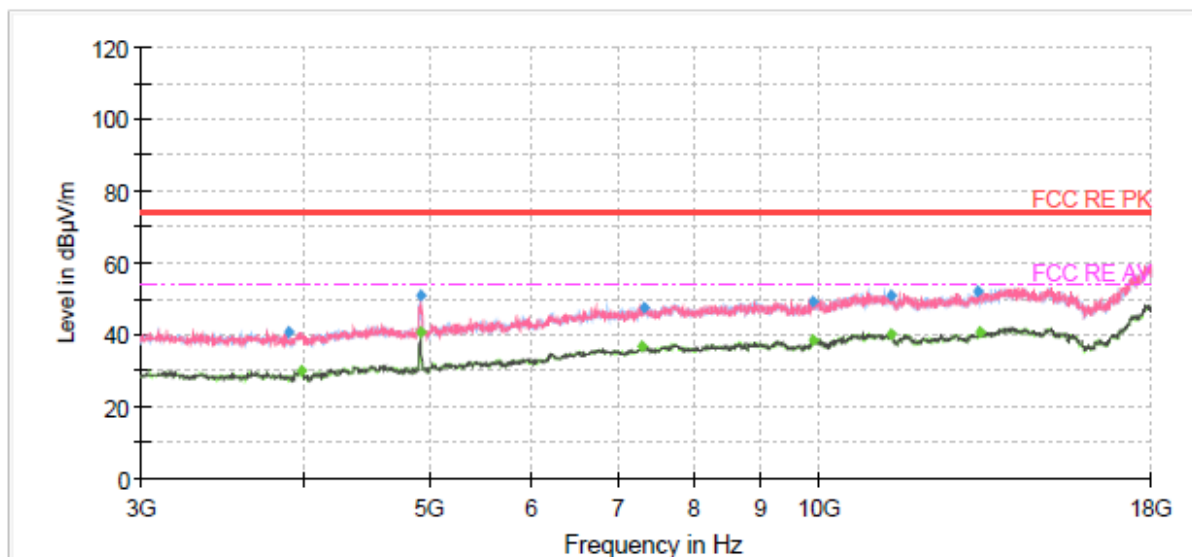
Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)
31.70	24.50	40.00	15.50	156.0	V	191.00
53.89	24.89	40.00	15.11	100.0	H	340.00
99.84	25.49	43.50	18.01	105.0	V	66.00
214.54	26.97	43.50	16.53	200.0	V	231.00
547.86	30.97	46.00	15.03	100.0	H	324.00
921.79	37.54	46.00	8.46	192.0	V	169.00



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)
1179.00	46.49	---	74.00	27.51	500.00	200.0	V	230.00	-5
1179.25	---	34.73	54.00	19.27	500.00	100.0	H	1.00	-5
1350.00	---	37.53	54.00	16.47	500.00	200.0	V	0.00	-4
1408.00	47.11	---	74.00	26.89	500.00	100.0	H	3.00	-4
1491.00	47.88	---	74.00	26.12	500.00	100.0	V	356.00	-4
1511.00	---	35.67	54.00	18.33	500.00	100.0	H	0.00	-4
1992.25	53.30	---	74.00	20.70	500.00	200.0	V	203.00	-2
2000.00	---	37.13	54.00	16.87	500.00	100.0	V	299.00	-2
2348.75	49.36	---	74.00	24.64	500.00	200.0	V	0.00	0
2369.50	---	38.43	54.00	15.57	500.00	100.0	V	318.00	0
2942.75	51.52	---	74.00	22.48	500.00	200.0	H	357.00	1
2974.75	---	39.58	54.00	14.42	500.00	100.0	V	147.00	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)
3894.38	40.94	---	74.00	33.06	500.00	100.0	H	11.00	-6
3980.63	---	30.09	54.00	23.91	500.00	200.0	H	177.00	-4
4920.00	---	40.85	54.00	13.15	500.00	200.0	V	347.00	-3
4923.75	50.89	---	74.00	23.11	500.00	200.0	V	0.00	-3
7290.00	---	36.65	54.00	17.35	500.00	200.0	H	298.00	2
7331.25	47.76	---	74.00	26.24	500.00	200.0	H	0.00	2
9866.25	49.29	---	74.00	24.71	500.00	200.0	H	146.00	5
9892.50	---	38.24	54.00	15.76	500.00	200.0	V	43.00	5
11340.00	---	40.33	54.00	13.67	500.00	100.0	H	22.00	7
11347.50	50.93	---	74.00	23.07	500.00	200.0	H	115.00	7
13258.13	52.03	---	74.00	21.97	500.00	200.0	H	352.00	8
13261.88	---	40.58	54.00	13.42	500.00	200.0	V	19.00	8

1.2. Bluetooth LE

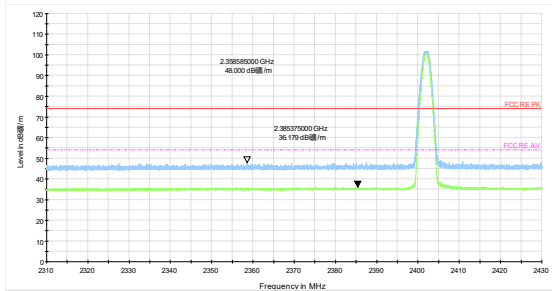
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

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

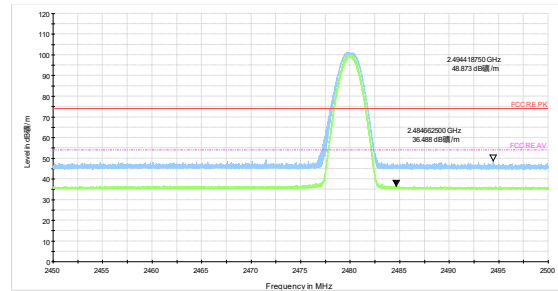
The signal beyond the limit is carrier.

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 (dB μ V/m) in the test plot below means (dB μ V/m)**
4. **The following graphs display the maximum values of horizontal and vertical 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

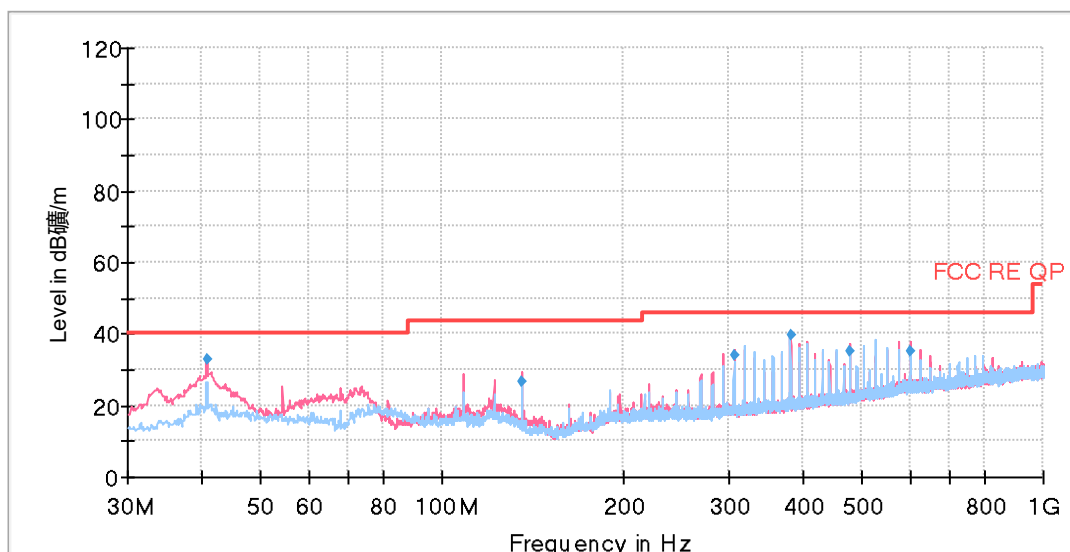
 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit

 AVG Level @Spectrum Overview H
  AVG Level @Spectrum Overview V
  AVG Level @Final Results
  AVG Limit

Continuous TX mode:

Configuration 1:

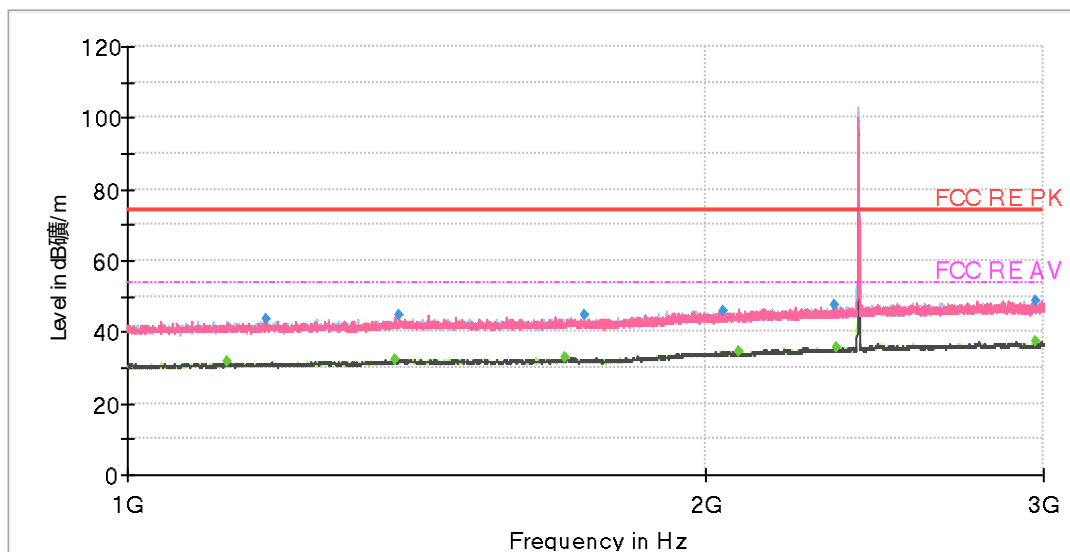
During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



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	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

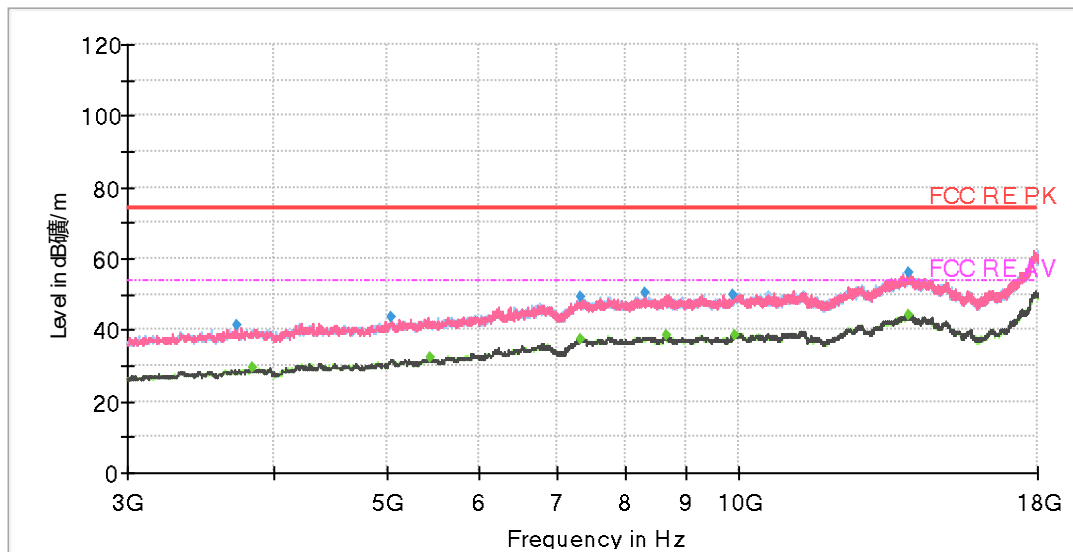
Bluetooth LE-Channel 0



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

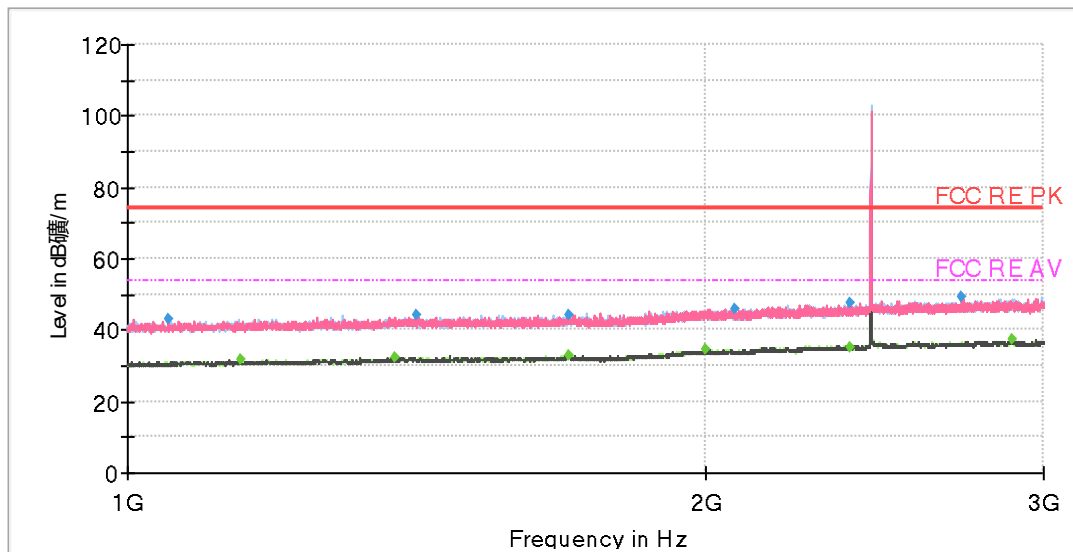
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1126.25	---	31.70	54.00	22.30	500.00	200.0	V	72.00	-4
1180.00	43.58	---	74.00	30.42	500.00	200.0	V	170.00	-4
1377.50	---	32.55	54.00	21.45	500.00	100.0	H	359.00	-3
1383.50	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

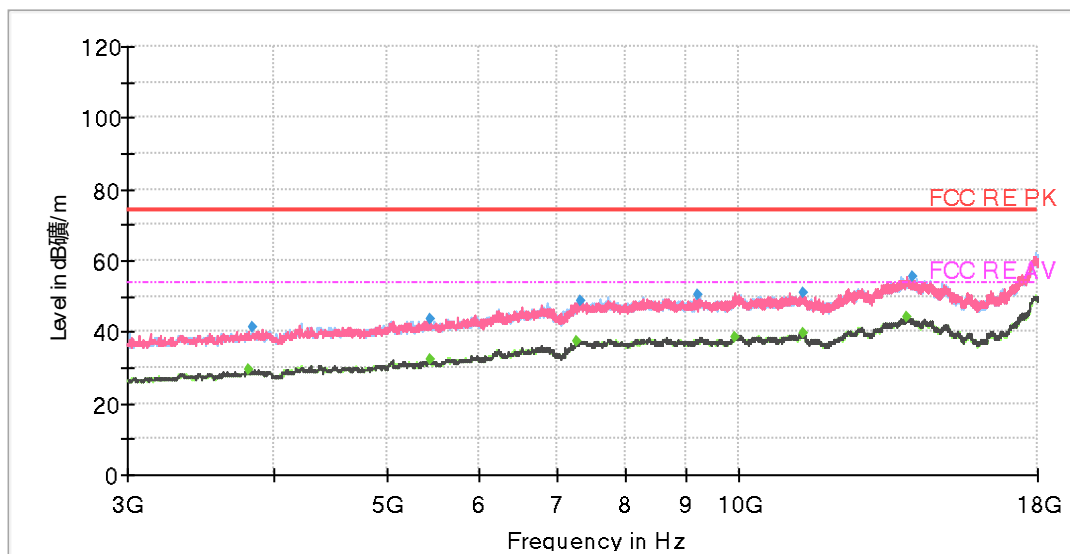
Bluetooth LE-Channel 19



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.

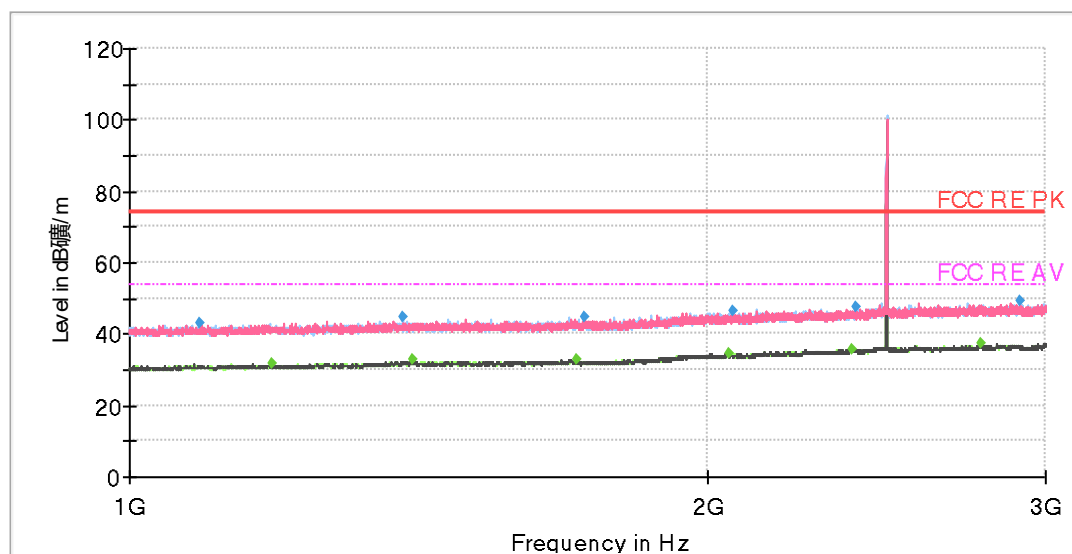
Radiates Emission from 1GHz to 3GHz



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

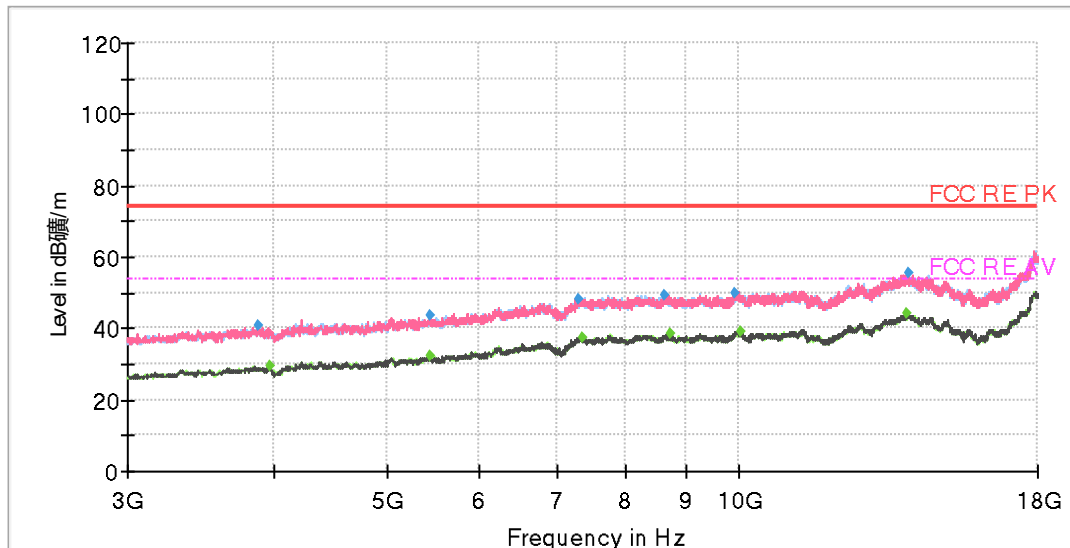
Bluetooth LE-Channel 39



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.

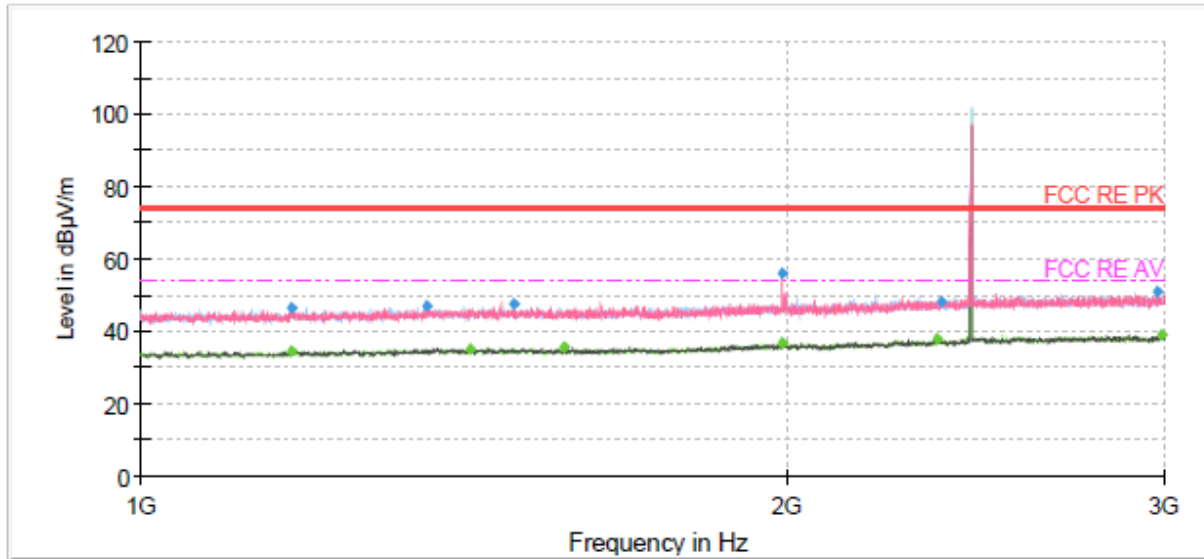
Radiates Emission from 1GHz to 3GHz



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

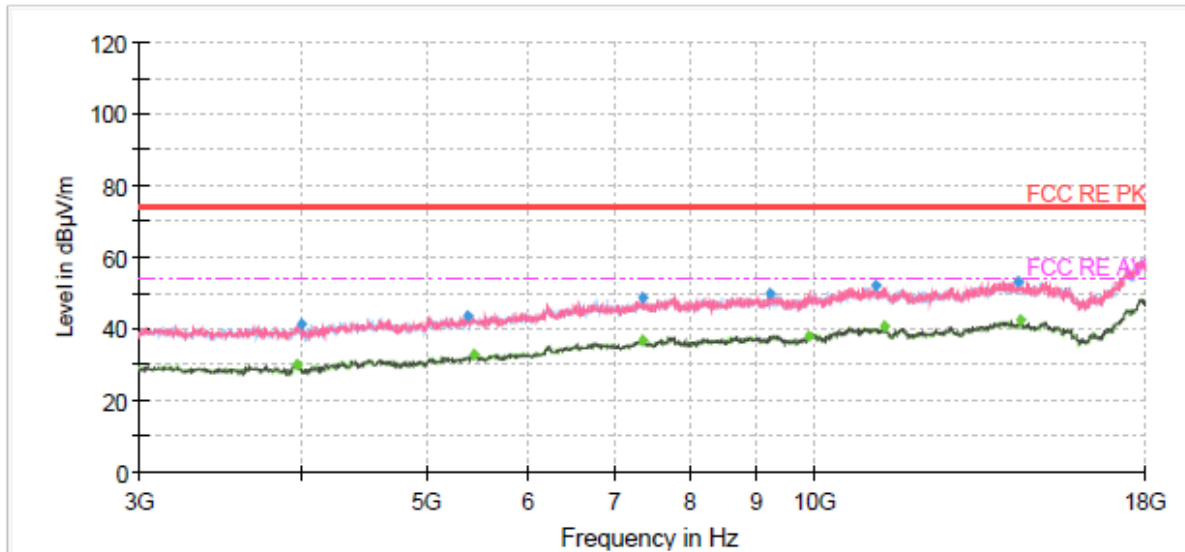
Configuration 5:
Bluetooth LE-Channel 19



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)
1176.25	---	34.52	54.00	19.48	500.00	200.0	H	336.00	-5
1176.75	46.45	---	74.00	27.55	500.00	100.0	V	356.00	-5
1358.75	46.85	---	74.00	27.15	500.00	200.0	V	0.00	-4
1426.00	---	35.13	54.00	18.87	500.00	100.0	V	291.00	-4
1491.25	47.32	---	74.00	26.68	500.00	200.0	H	278.00	-4
1576.75	---	35.57	54.00	18.43	500.00	200.0	V	0.00	-4
1990.50	55.80	---	74.00	18.20	500.00	200.0	V	220.00	-2
1990.50	---	36.91	54.00	17.09	500.00	200.0	V	220.00	-2
2353.50	---	37.79	54.00	16.21	500.00	100.0	V	264.00	0
2362.75	48.36	---	74.00	25.64	500.00	100.0	V	329.00	0
2977.75	51.22	---	74.00	22.78	500.00	200.0	V	220.00	2
2991.75	---	38.98	54.00	15.02	500.00	200.0	V	22.00	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)
3967.50	---	30.02	54.00	23.98	500.00	200.0	H	0.00	-4
4001.25	41.38	---	74.00	32.62	500.00	100.0	H	260.00	-5
5388.75	43.58	---	74.00	30.42	500.00	100.0	H	0.00	-2
5450.63	---	32.89	54.00	21.11	500.00	200.0	V	106.00	-2
7338.75	48.40	---	74.00	25.60	500.00	100.0	H	61.00	2
7340.63	---	36.83	54.00	17.17	500.00	100.0	H	150.00	2
9234.38	49.72	---	74.00	24.28	500.00	100.0	H	118.00	5
9892.50	---	38.13	54.00	15.87	500.00	100.0	V	174.00	5
11130.00	52.30	---	74.00	21.70	500.00	200.0	H	336.00	7
11306.25	---	40.60	54.00	13.40	500.00	100.0	V	250.00	7
14349.38	53.08	---	74.00	20.92	500.00	200.0	V	0.00	9
14400.00	---	42.22	54.00	11.78	500.00	100.0	V	354.00	9

2. Conducted Emission

2.1. Wi-Fi 2.4GHz

Configuration 5:

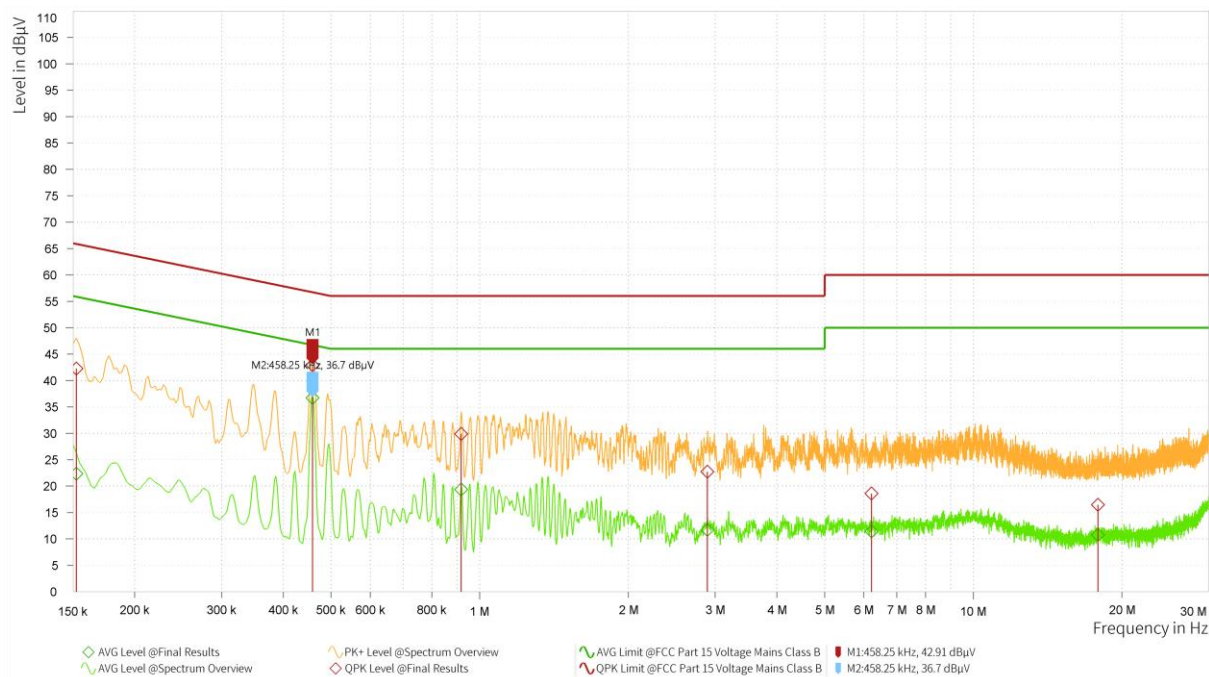
During the test, the Conducted Emission was performed in all modes with all channel. The test data of the worst-case condition was recorded in this report.



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]
0.164	46.29	65.28	18.99	28.51	55.28	26.77	20.89	L1	9.000	1.000
0.323	29.36	59.62	30.26	15.30	49.62	34.32	20.92	L1	9.000	1.000
0.449	41.26	56.89	15.63	35.37	46.89	11.51	20.83	L1	9.000	1.000
0.940	28.36	56.00	27.64	13.47	46.00	32.53	20.21	L1	9.000	1.000
3.055	19.59	56.00	36.41	12.38	46.00	33.62	19.48	L1	9.000	1.000
9.080	24.46	60.00	35.54	13.56	50.00	36.44	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]
0.152	42.25	65.88	23.62	22.35	55.88	33.52	20.91	N	9.000	1.000
0.458	42.91	56.72	13.82	36.70	46.72	10.02	20.83	N	9.000	1.000
0.917	29.88	56.00	26.12	19.36	46.00	26.64	20.24	N	9.000	1.000
2.893	22.72	56.00	33.28	11.73	46.00	34.27	19.51	N	9.000	1.000
6.223	18.60	60.00	41.40	11.41	50.00	38.59	19.41	N	9.000	1.000
17.885	16.48	60.00	43.52	10.76	50.00	39.24	19.63	N	9.000	1.000

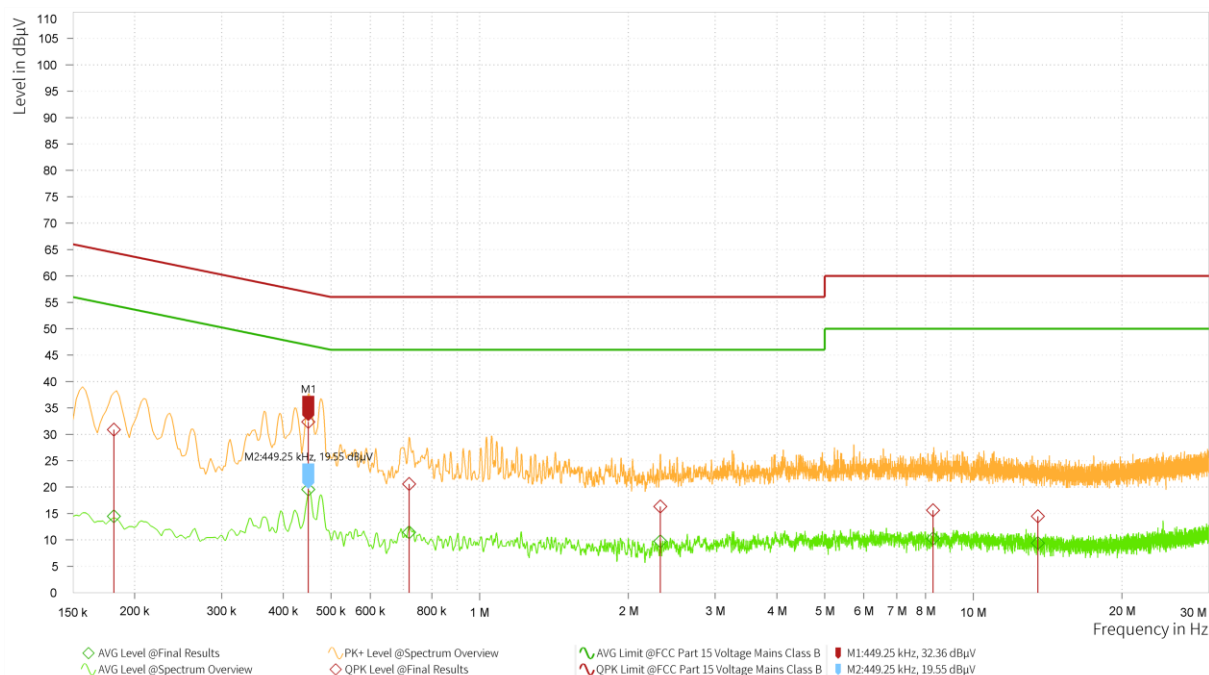
Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

2.2. Bluetooth LE

Configuration 5:

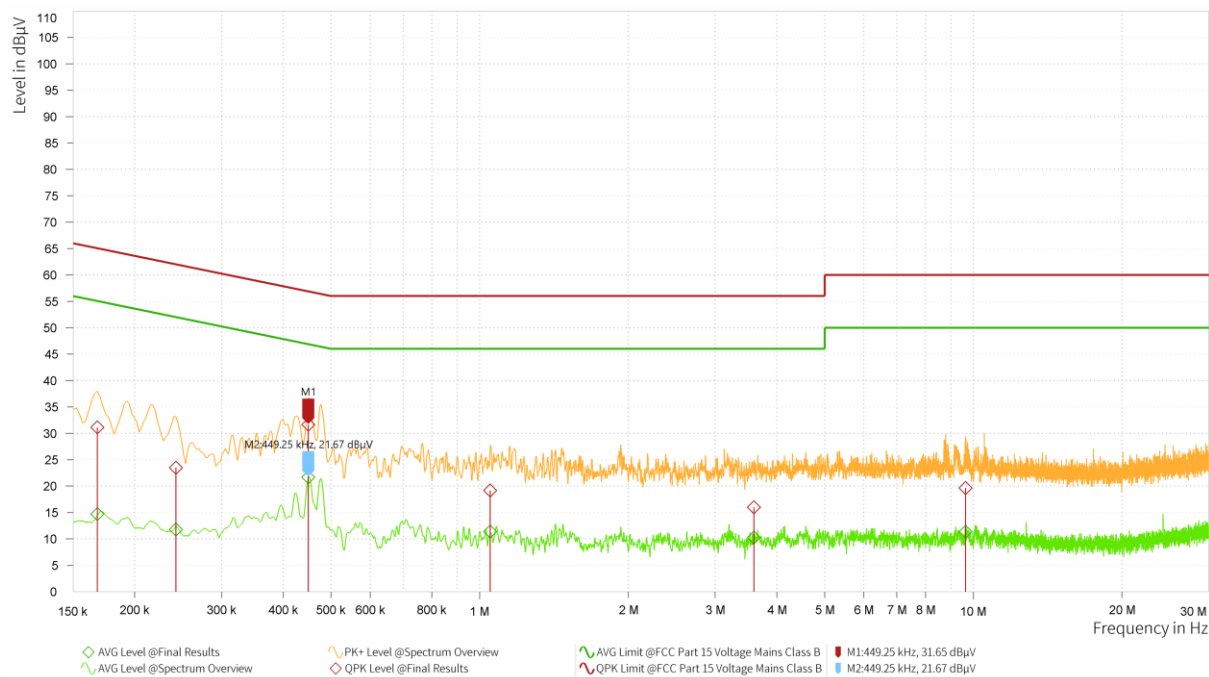
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



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]
0.182	30.90	64.42	33.52	14.49	54.42	39.93	21.03	L1	9.000	1.000
0.449	32.36	56.89	24.53	19.55	46.89	27.33	20.83	L1	9.000	1.000
0.719	20.60	56.00	35.40	11.42	46.00	34.58	20.55	L1	9.000	1.000
2.321	16.34	56.00	39.66	9.71	46.00	36.29	19.58	L1	9.000	1.000
8.291	15.59	60.00	44.41	10.25	50.00	39.75	19.41	L1	9.000	1.000
13.513	14.48	60.00	45.52	9.40	50.00	40.60	19.46	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]
0.168	31.10	65.06	33.96	14.71	55.06	40.35	20.90	N	9.000	1.000
0.242	23.46	62.02	38.56	11.75	52.02	40.27	20.99	N	9.000	1.000
0.449	31.65	56.89	25.24	21.67	46.89	25.22	20.84	N	9.000	1.000
1.050	19.14	56.00	36.86	11.39	46.00	34.61	20.13	N	9.000	1.000
3.595	16.00	56.00	40.00	10.24	46.00	35.76	19.45	N	9.000	1.000
9.650	19.64	60.00	40.36	11.33	50.00	38.67	19.43	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz