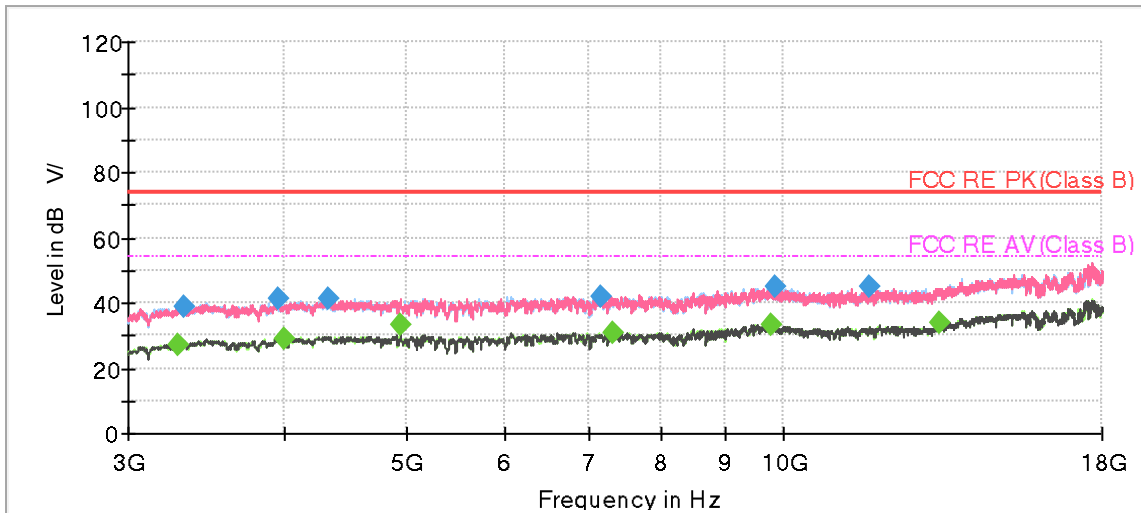
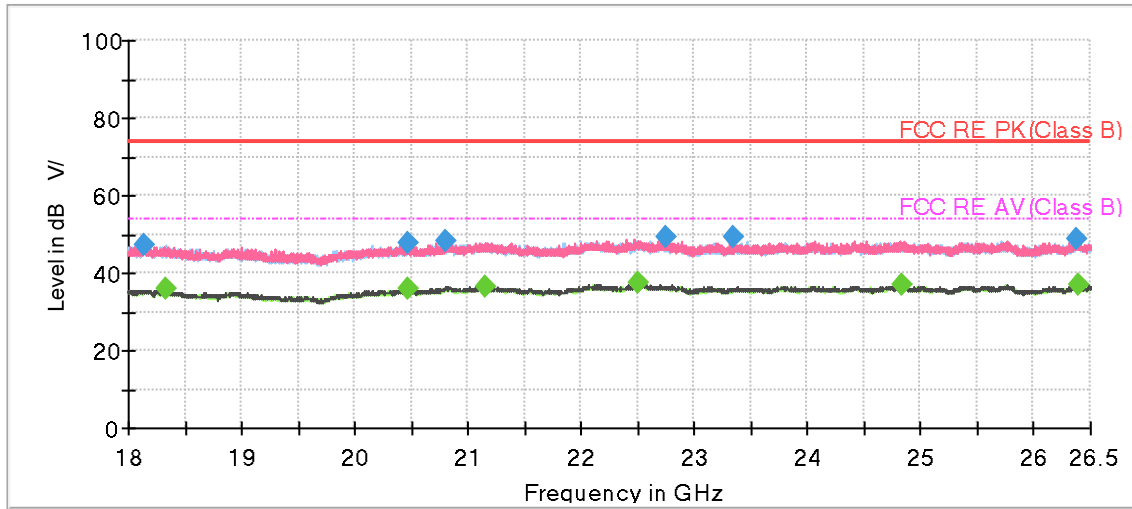




Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3292.500000	---	27.15	54.00	26.85	500.0	100.0	H	92.0	-9.2
3324.375000	38.67	---	74.00	35.33	500.0	200.0	V	226.0	-9.1
3956.250000	40.99	---	74.00	33.01	500.0	100.0	H	12.0	-7.1
3993.750000	---	29.15	54.00	24.85	500.0	200.0	H	245.0	-6.8
4335.000000	41.45	---	74.00	32.55	500.0	100.0	H	220.0	-6.5
4959.375000	---	33.52	54.00	20.48	500.0	100.0	V	67.0	-5.4
7155.000000	41.97	---	74.00	32.03	500.0	100.0	V	29.0	-2.9
7323.750000	---	30.87	54.00	23.13	500.0	100.0	H	76.0	-3.0
9785.625000	---	33.30	54.00	20.70	500.0	100.0	V	216.0	-0.5
9851.250000	44.62	---	74.00	29.38	500.0	100.0	V	38.0	-0.4
11743.125000	44.94	---	74.00	29.06	500.0	200.0	V	226.0	-0.3
13329.375000	---	33.61	54.00	20.39	500.0	200.0	V	89.0	2.3

During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18143.437500	47.03	---	74.00	26.97	500.0	200.0	H	229.0	-5.8
18326.187500	---	35.73	54.00	18.27	500.0	100.0	V	3.0	-5.8
20466.062500	---	35.76	54.00	18.24	500.0	200.0	V	184.0	-4.9
20475.625000	47.59	---	74.00	26.41	500.0	100.0	V	0.0	-4.8
20797.562500	48.32	---	74.00	25.68	500.0	200.0	V	349.0	-4.7
21148.187500	---	36.64	54.00	17.36	500.0	100.0	H	185.0	-4.2
22506.062500	---	37.22	54.00	16.78	500.0	100.0	V	121.0	-3.4
22753.625000	49.01	---	74.00	24.99	500.0	200.0	V	156.0	-3.5
23348.625000	49.10	---	74.00	24.90	500.0	200.0	V	353.0	-3.5
24842.500000	---	36.77	54.00	17.23	500.0	200.0	V	245.0	-2.8
26377.812500	48.69	---	74.00	25.31	500.0	200.0	H	248.0	-2.2
26395.875000	---	37.10	54.00	16.90	500.0	100.0	V	279.0	-2.2

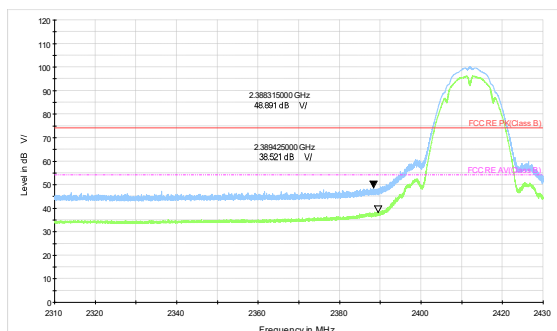
PKM8721DAF-D23-F10:

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.

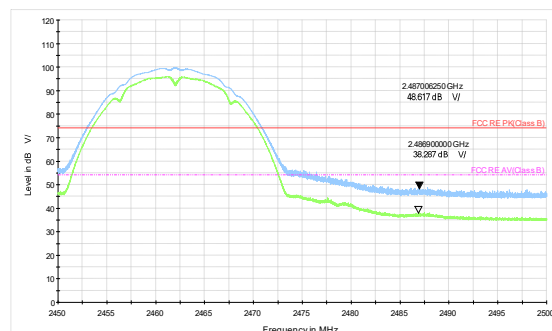
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

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

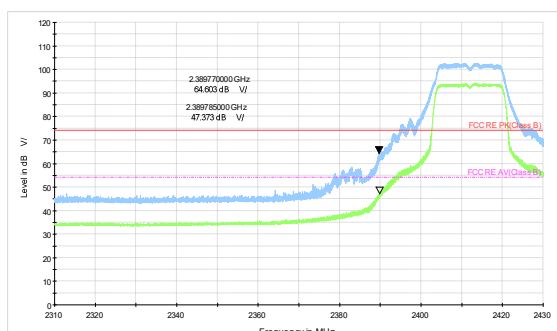
The signal beyond the limit is carrier.



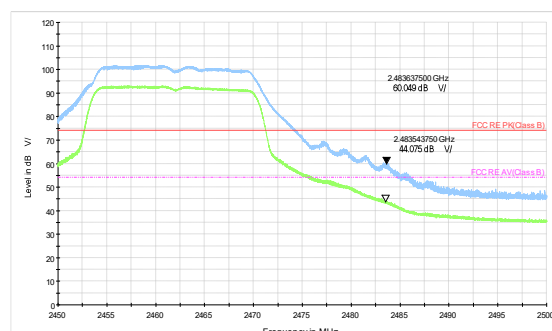
802.11b-Channel 1 Peak+ Average



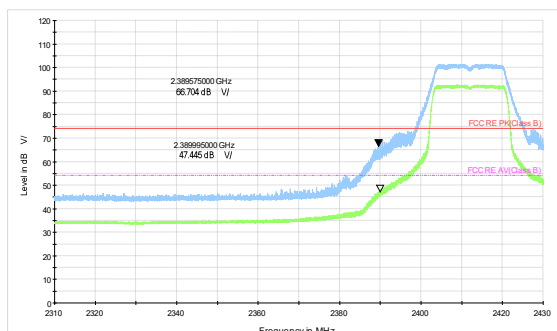
802.11b-Channel 11 Peak+ Average



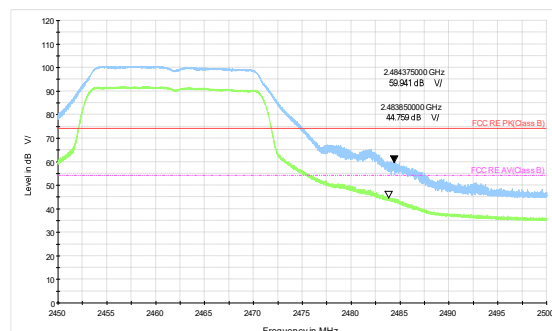
802.11g-Channel 1 Peak+ Average



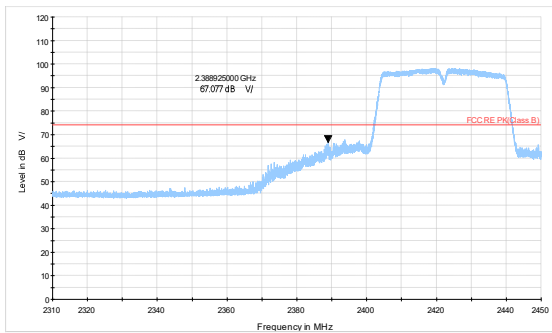
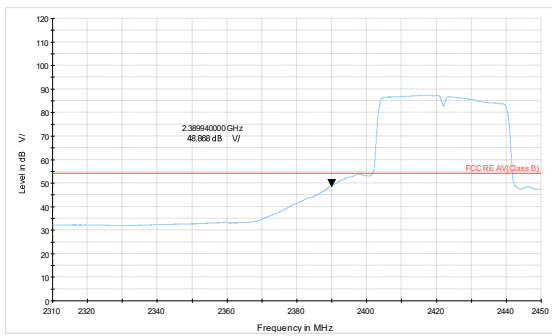
802.11g-Channel 11 Peak+ Average



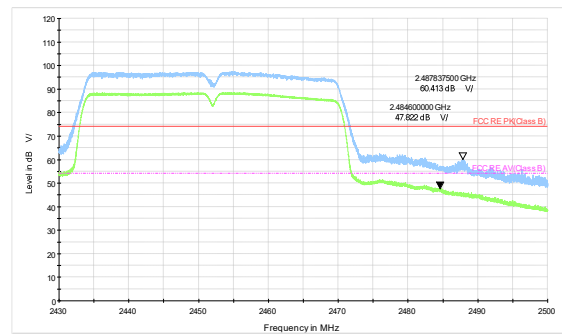
802.11n HT20-Channel 1 Peak+ Average



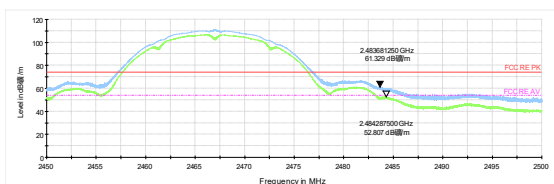
802.11n HT20-Channel 11 Peak+ Average



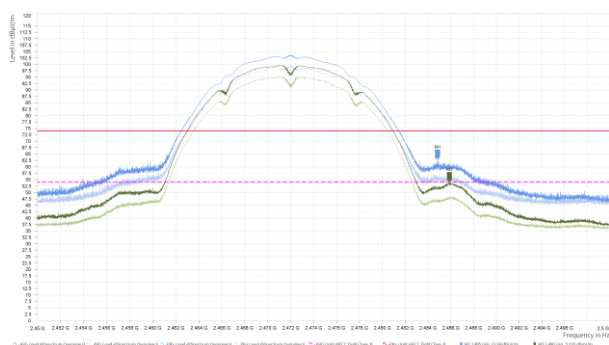
802.11n HT40-Channel 3 Peak+ Average



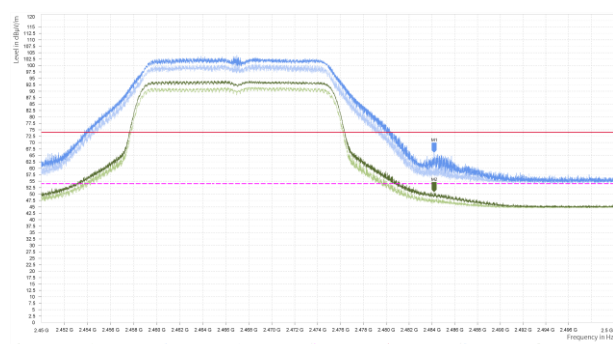
802.11n HT40-Channel 9 Peak+ Average



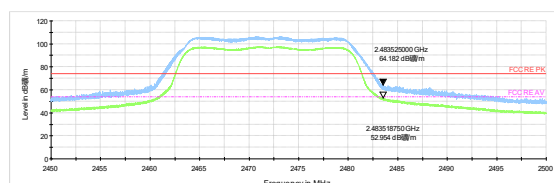
802.11b-Channel 12 Peak+ Average



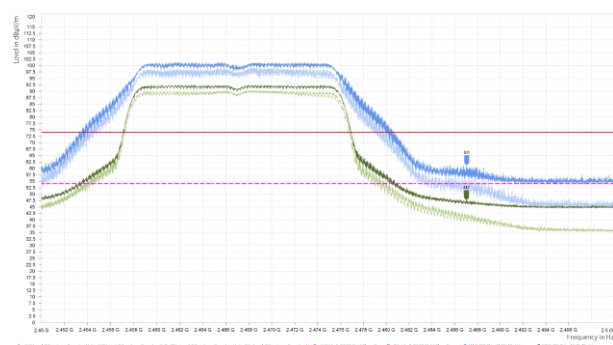
802.11b-Channel 13 Peak+ Average



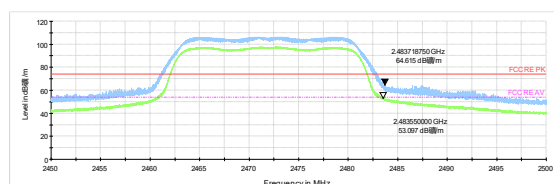
802.11g-Channel 12 Peak+ Average



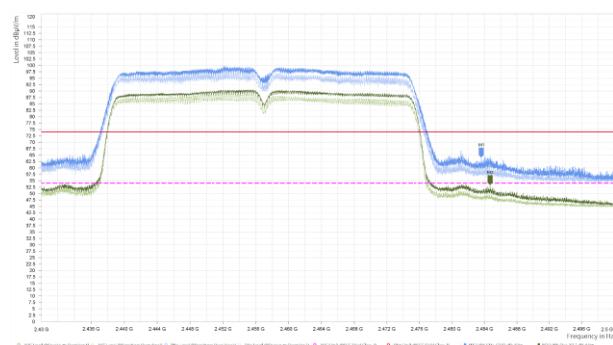
802.11g-Channel 13 Peak+ Average



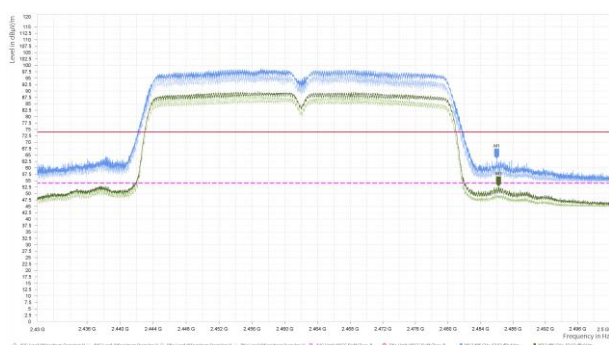
802.11n HT20-Channel 12 Peak+ Average



802.11n HT20-Channel 13 Peak+ Average

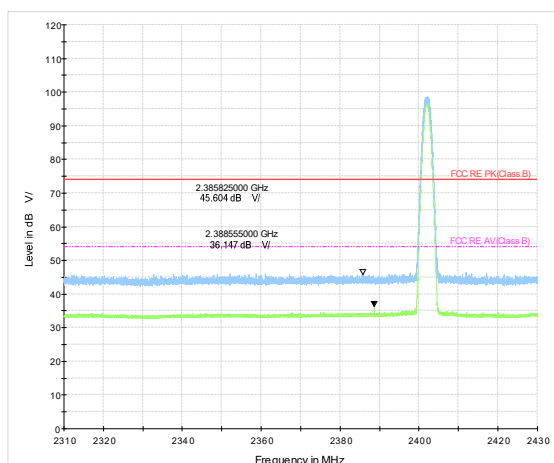


802.11n HT40-Channel 10 Peak+ Average

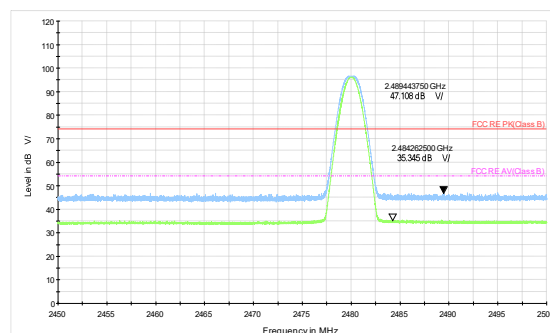


802.11n HT40-Channel 11 Peak+ Average

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.

Remark:

1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak/ MAX Peak/ Average
3. A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)
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

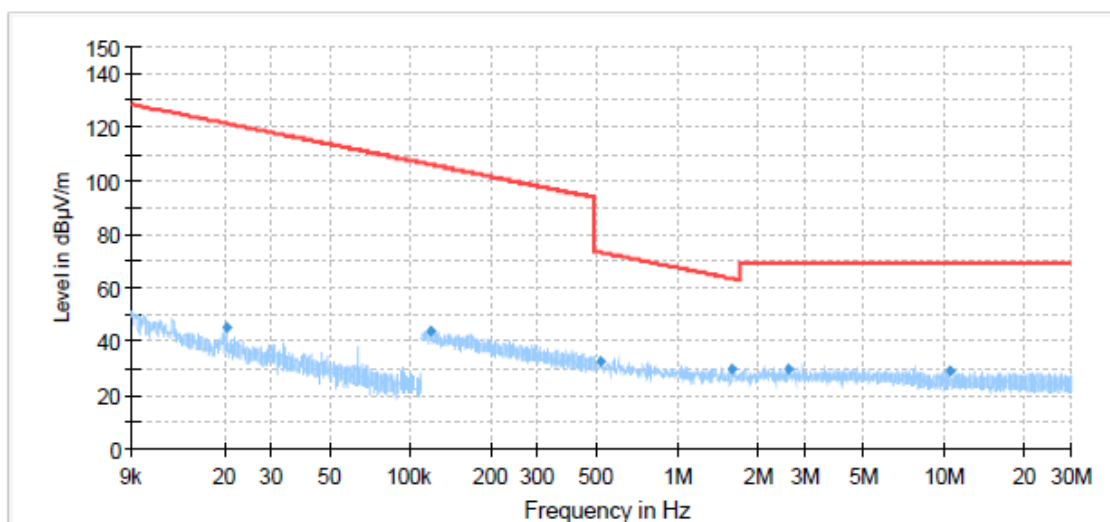
 PK Level @Spectrum Overview H
  PK Level @Spectrum Overview V
  PK Level @Final Results
  PK Limit

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

Continuous TX mode:

Wi-Fi 2.4GHz

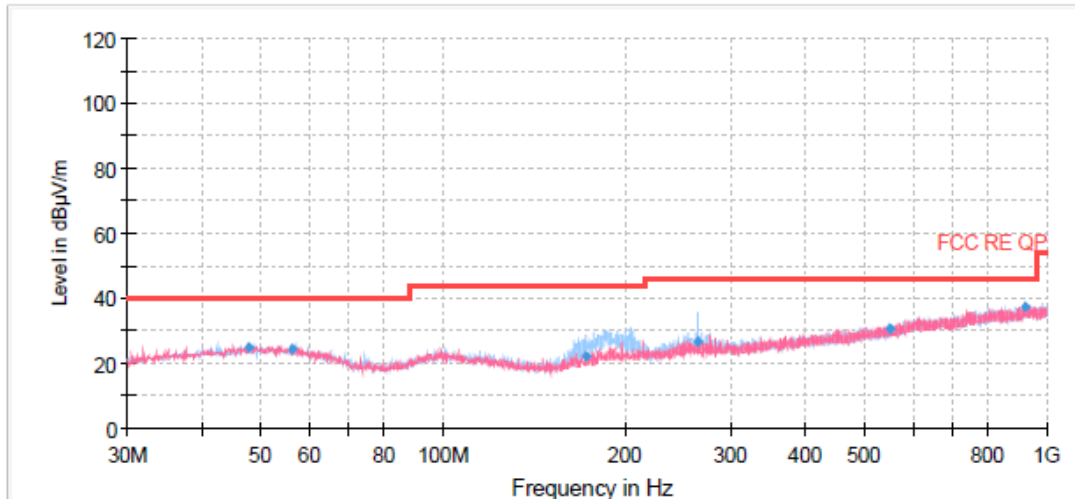
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, the test data of the worst-case condition was recorded in this report.



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)
0.02	45.39	121.45	76.07	500.00	0.200	V	120.00	17
0.12	43.92	106.06	62.14	150.00	9.000	V	357.00	17
0.52	32.66	73.29	40.63	150.00	9.000	V	130.00	17
1.60	29.41	63.51	34.10	150.00	9.000	V	347.00	17
2.61	29.89	69.50	39.61	150.00	9.000	V	357.00	17
10.61	29.05	69.50	40.45	150.00	9.000	V	338.00	17

Radiates Emission from 9kHz to 30MHz

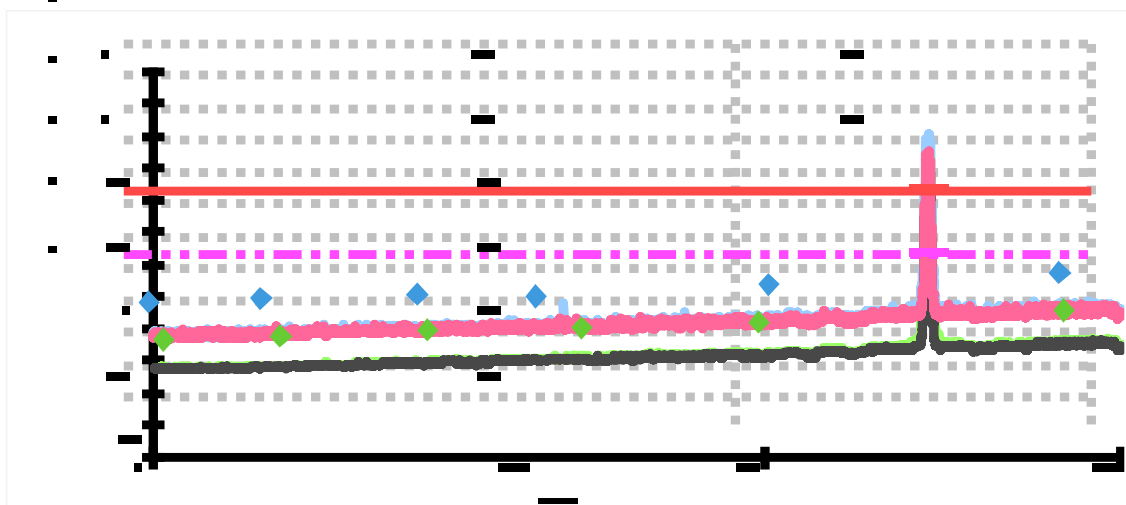


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	DET 2 (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.66	24.71	---	40.00	15.29	1000.00	109.0	H	134.00	20
56.40	24.25	---	40.00	15.75	1000.00	183.0	H	137.00	20
172.67	22.13	---	43.50	21.37	1000.00	197.0	H	292.00	16
263.97	26.45	---	46.00	19.55	1000.00	110.0	H	96.00	20
548.67	30.84	---	46.00	15.16	1000.00	100.0	H	108.00	26
921.06	37.36	---	46.00	8.64	1000.00	100.0	H	21.00	32

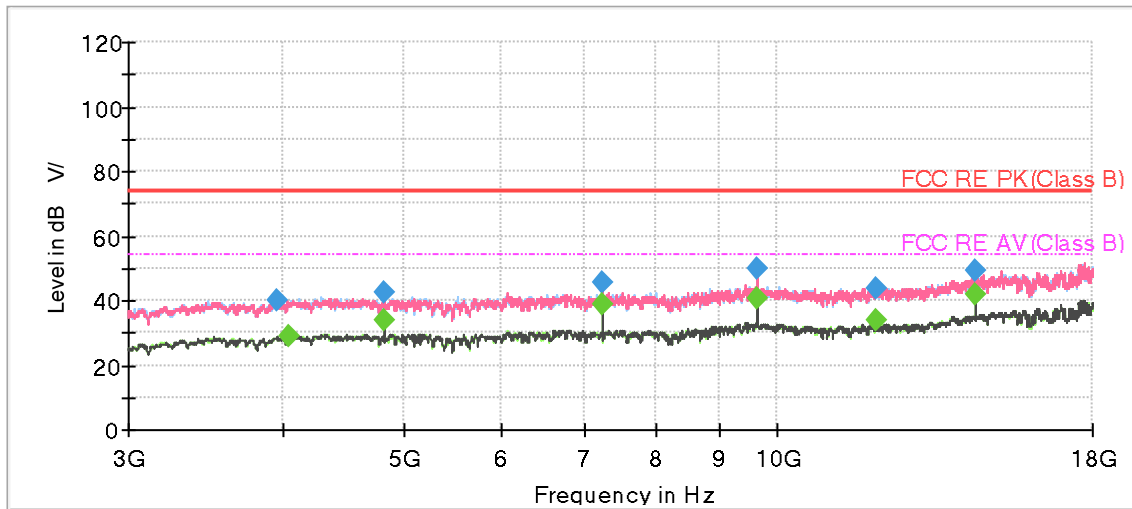
Radiates Emission from 30MHz to 1GHz

802.11b CH1



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

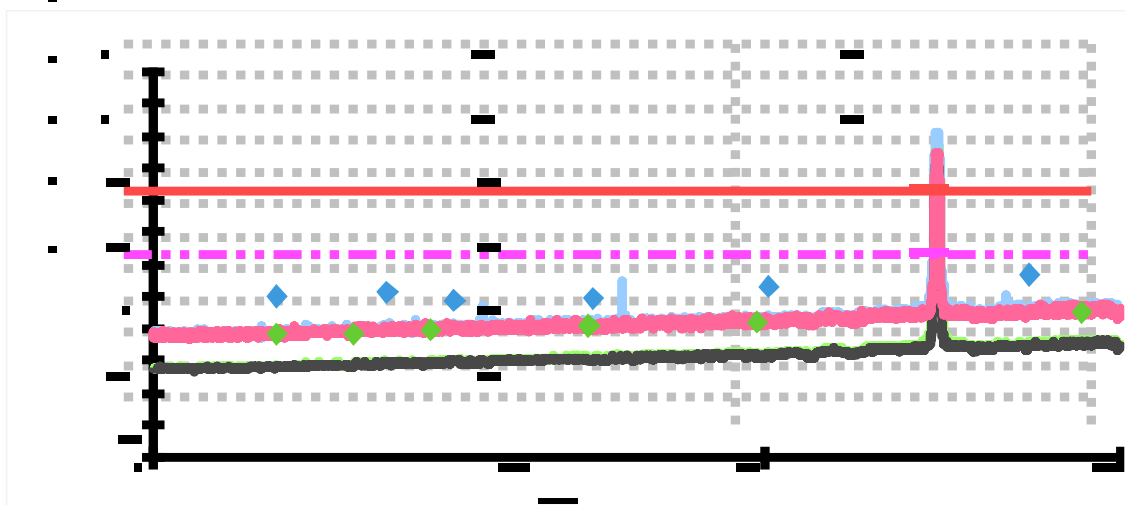
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1027.750000	39.17	---	74.00	34.83	500.0	100.0	H	48.0	-10.6
1046.250000	---	27.61	54.00	26.39	500.0	100.0	H	356.0	-10.5
1168.750000	40.52	---	74.00	33.48	500.0	100.0	H	115.0	-9.4
1193.000000	---	29.09	54.00	24.91	500.0	200.0	H	77.0	-8.9
1394.500000	41.82	---	74.00	32.18	500.0	100.0	H	48.0	-7.6
1411.500000	---	30.55	54.00	23.45	500.0	200.0	H	148.0	-7.5
1594.250000	41.20	---	74.00	32.80	500.0	100.0	H	212.0	-6.4
1682.000000	---	31.67	54.00	22.33	500.0	100.0	H	32.0	-6.0
2058.250000	---	33.24	54.00	20.76	500.0	100.0	H	7.0	-4.1
2080.000000	44.88	---	74.00	29.12	500.0	100.0	H	32.0	-3.9
2893.250000	48.61	---	74.00	25.39	500.0	100.0	H	342.0	-1.1
2906.000000	---	36.87	54.00	17.13	500.0	100.0	H	145.0	-1.0



Radiates Emission from 3GHz to 18GHz

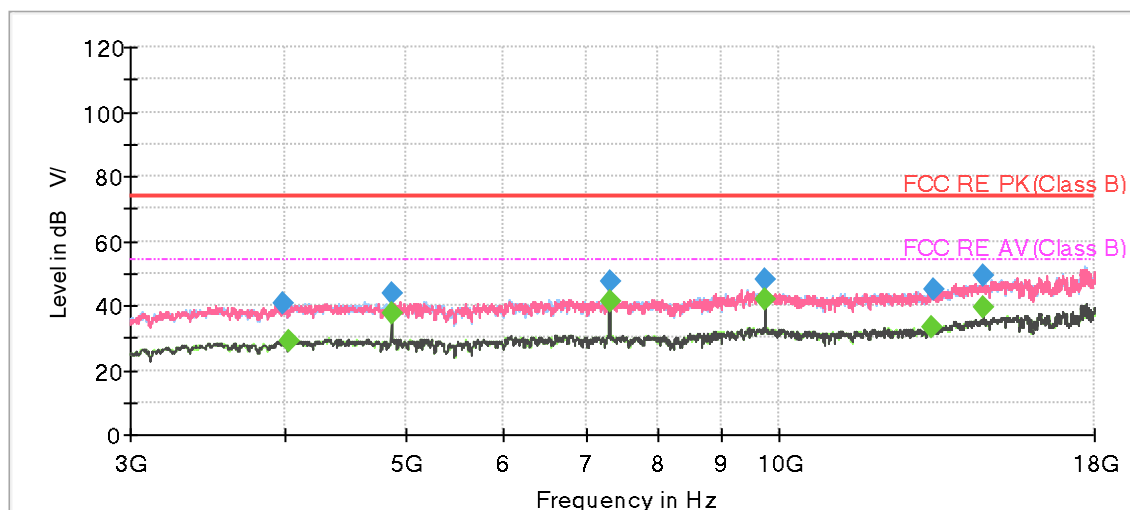
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3950.625000	40.11	---	74.00	33.89	500.0	100.0	V	270.0	-7.2
4036.875000	---	28.98	54.00	25.02	500.0	200.0	H	313.0	-6.7
4822.500000	---	33.86	54.00	20.14	500.0	100.0	V	180.0	-6.1
4822.500000	42.43	---	74.00	31.57	500.0	100.0	V	180.0	-6.1
7233.750000	---	38.97	54.00	15.03	500.0	100.0	V	328.0	-2.9
7233.750000	45.26	---	74.00	28.74	500.0	200.0	V	337.0	-2.9
9646.875000	49.89	---	74.00	24.11	500.0	100.0	H	126.0	-0.5
9648.750000	---	40.71	54.00	13.29	500.0	100.0	V	122.0	-0.5
12060.000000	43.80	---	74.00	30.20	500.0	100.0	V	239.0	-0.1
12061.875000	---	34.13	54.00	19.87	500.0	200.0	H	234.0	-0.1
14473.125000	---	41.91	54.00	12.09	500.0	100.0	V	145.0	4.5
14473.125000	49.24	---	74.00	24.76	500.0	100.0	H	36.0	4.5

802.11b CH6



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

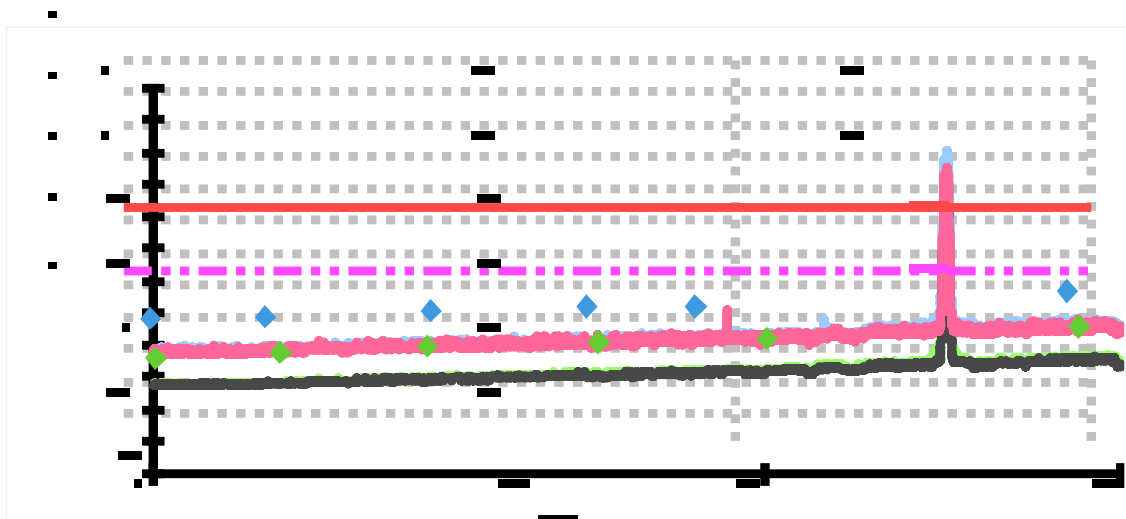
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1188.500000	40.96	---	74.00	33.04	500.0	200.0	H	314.0	-9.0
1190.000000	---	29.29	54.00	24.71	500.0	100.0	H	306.0	-9.0
1297.750000	---	29.29	54.00	24.71	500.0	100.0	H	260.0	-8.2
1348.000000	42.51	---	74.00	31.49	500.0	100.0	H	121.0	-8.0
1416.500000	---	30.67	54.00	23.33	500.0	100.0	H	130.0	-7.4
1456.000000	40.08	---	74.00	33.92	500.0	200.0	H	298.0	-7.2
1695.000000	---	31.93	54.00	22.07	500.0	200.0	H	323.0	-6.0
1704.750000	40.90	---	74.00	33.10	500.0	200.0	H	331.0	-6.0
2053.250000	---	33.12	54.00	20.88	500.0	100.0	H	87.0	-4.2
2078.000000	44.59	---	74.00	29.41	500.0	200.0	H	78.0	-3.9
2800.750000	48.19	---	74.00	25.81	500.0	200.0	H	0.0	-1.2
2967.500000	---	36.58	54.00	17.42	500.0	100.0	H	63.0	-0.8



Radiates Emission from 3GHz to 18GHz

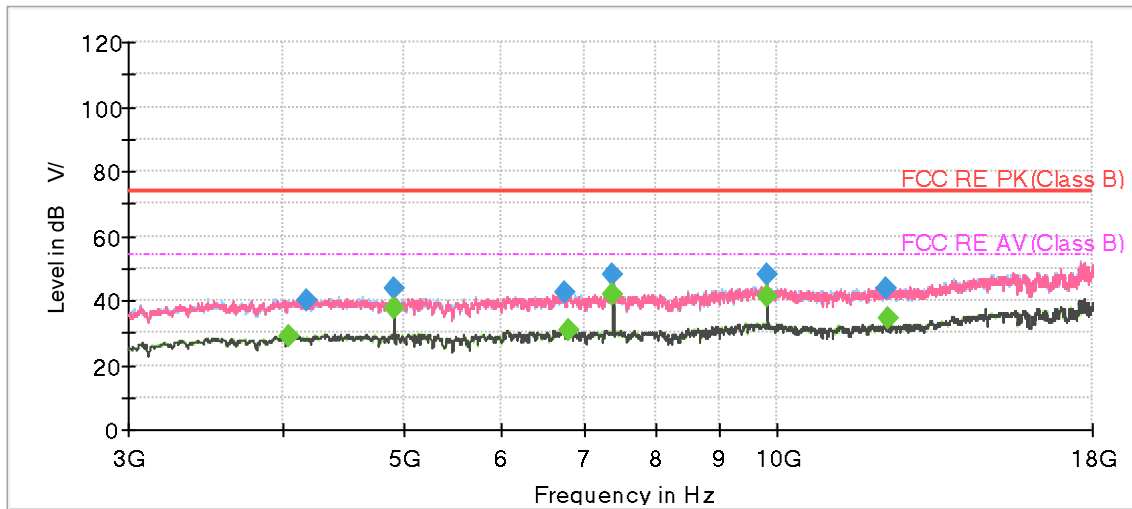
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3991.875000	40.51	---	74.00	33.49	500.0	200.0	V	218.0	-6.8
4031.250000	---	29.04	54.00	24.96	500.0	200.0	V	11.0	-6.8
4873.125000	---	37.27	54.00	16.73	500.0	100.0	V	52.0	-5.8
4873.125000	43.73	---	74.00	30.27	500.0	100.0	V	52.0	-5.8
7308.750000	47.63	---	74.00	26.37	500.0	200.0	V	332.0	-3.0
7310.625000	---	41.29	54.00	12.71	500.0	200.0	H	330.0	-3.0
9748.125000	47.92	---	74.00	26.08	500.0	200.0	H	125.0	-0.5
9748.125000	---	41.67	54.00	12.33	500.0	100.0	H	120.0	-0.5
13325.625000	---	33.53	54.00	20.47	500.0	200.0	V	170.0	2.3
13340.625000	44.84	---	74.00	29.16	500.0	100.0	H	233.0	2.3
14623.125000	---	39.32	54.00	14.68	500.0	200.0	H	87.0	4.9
14623.125000	49.16	---	74.00	24.84	500.0	100.0	V	18.0	4.9

802.11b CH11



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

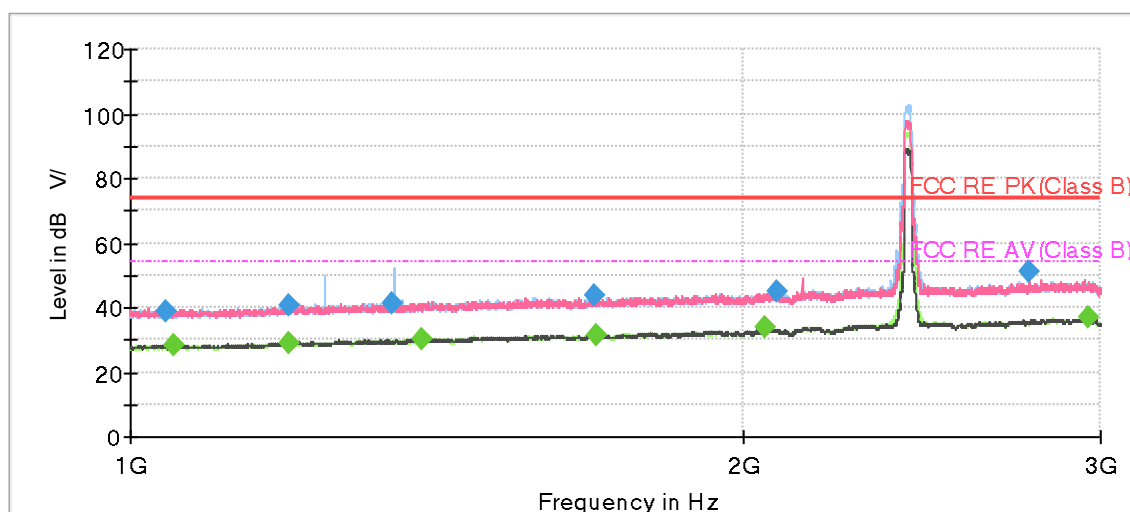
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1030.000000	39.51	---	74.00	34.49	500.0	100.0	H	304.0	-10.6
1035.750000	---	27.37	54.00	26.63	500.0	200.0	H	291.0	-10.5
1173.500000	40.28	---	74.00	33.72	500.0	100.0	V	311.0	-9.3
1195.250000	---	29.13	54.00	24.88	500.0	200.0	H	333.0	-8.9
1409.000000	---	30.60	54.00	23.40	500.0	200.0	H	177.0	-7.5
1415.250000	42.01	---	74.00	31.99	500.0	200.0	H	234.0	-7.5
1690.500000	42.92	---	74.00	31.08	500.0	100.0	V	145.0	-6.0
1715.000000	---	31.71	54.00	22.29	500.0	100.0	H	58.0	-5.9
1915.000000	43.03	---	74.00	30.97	500.0	100.0	H	176.0	-4.9
2073.500000	---	33.45	54.00	20.55	500.0	100.0	H	76.0	-4.0
2921.750000	48.04	---	74.00	25.96	500.0	100.0	H	26.0	-1.0
2959.000000	---	36.62	54.00	17.38	500.0	200.0	H	259.0	-0.8



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)
4036.875000	---	29.08	54.00	24.92	500.0	100.0	V	335.0	-6.7
4181.250000	40.11	---	74.00	33.89	500.0	100.0	H	143.0	-6.6
4923.750000	---	37.65	54.00	16.35	500.0	100.0	V	52.0	-5.3
4923.750000	43.83	---	74.00	30.17	500.0	100.0	V	52.0	-5.3
6738.750000	42.19	---	74.00	31.81	500.0	100.0	V	299.0	-3.5
6808.125000	---	31.00	54.00	23.00	500.0	200.0	H	87.0	-3.2
7385.625000	---	41.69	54.00	12.31	500.0	100.0	V	139.0	-2.8
7385.625000	47.72	---	74.00	26.28	500.0	200.0	V	128.0	-2.8
9847.500000	48.19	---	74.00	25.81	500.0	100.0	H	125.0	-0.4
9847.500000	---	41.14	54.00	12.86	500.0	100.0	H	125.0	-0.4
12256.875000	43.69	---	74.00	30.31	500.0	100.0	H	335.0	0.2
12309.375000	---	34.76	54.00	19.24	500.0	200.0	V	189.0	0.2

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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)
1040.250000	38.96	---	74.00	35.04	500.0	100.0	V	128.0	-10.5
1051.500000	---	28.32	54.00	25.68	500.0	100.0	H	313.0	-10.5
1195.750000	---	29.22	54.00	24.78	500.0	200.0	V	39.0	-8.9
1196.000000	40.35	---	74.00	33.65	500.0	100.0	V	62.0	-8.9
1346.250000	41.16	---	74.00	32.84	500.0	100.0	V	238.0	-8.0
1392.750000	---	30.37	54.00	23.63	500.0	200.0	H	121.0	-7.6
1693.250000	43.45	---	74.00	30.55	500.0	100.0	H	32.0	-6.0
1697.250000	---	31.62	54.00	22.38	500.0	100.0	V	155.0	-6.0
2051.750000	---	33.55	54.00	20.45	500.0	200.0	V	39.0	-4.2
2080.000000	44.97	---	74.00	29.03	500.0	200.0	H	223.0	-3.9
2766.000000	50.78	---	74.00	23.22	500.0	100.0	V	128.0	-1.5
2958.000000	---	36.89	54.00	17.11	500.0	200.0	V	194.0	-0.8