

ANNEX A: Test Result

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 lie-down position (X axis) and the loop antenna is coplanar, the others are vertical and horizontal. and the worst case was recorded.

1. Unwanted Emission

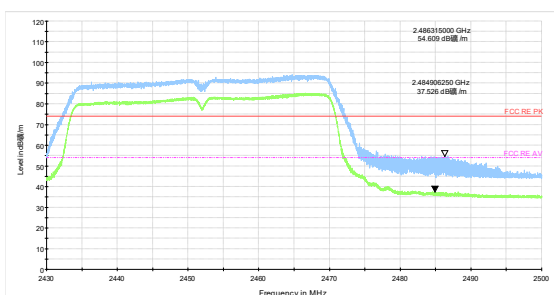
1.1. Wi-Fi 2.4GHz

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

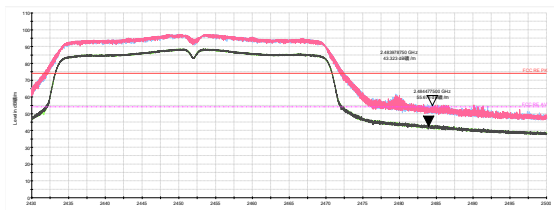
The signal beyond the limit is carrier.

KR272



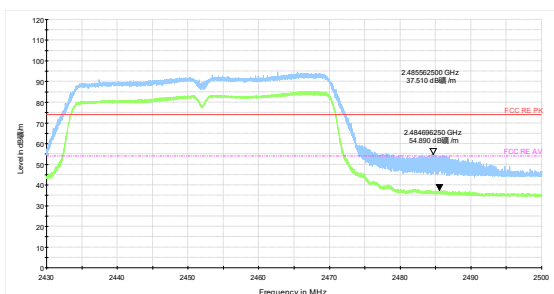
802.11n HT40-Channel 9 Peak+ Average

KR274



802.11n HT40-Channel 9 Peak+ Average

KR276



802.11n HT40-Channel 9 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

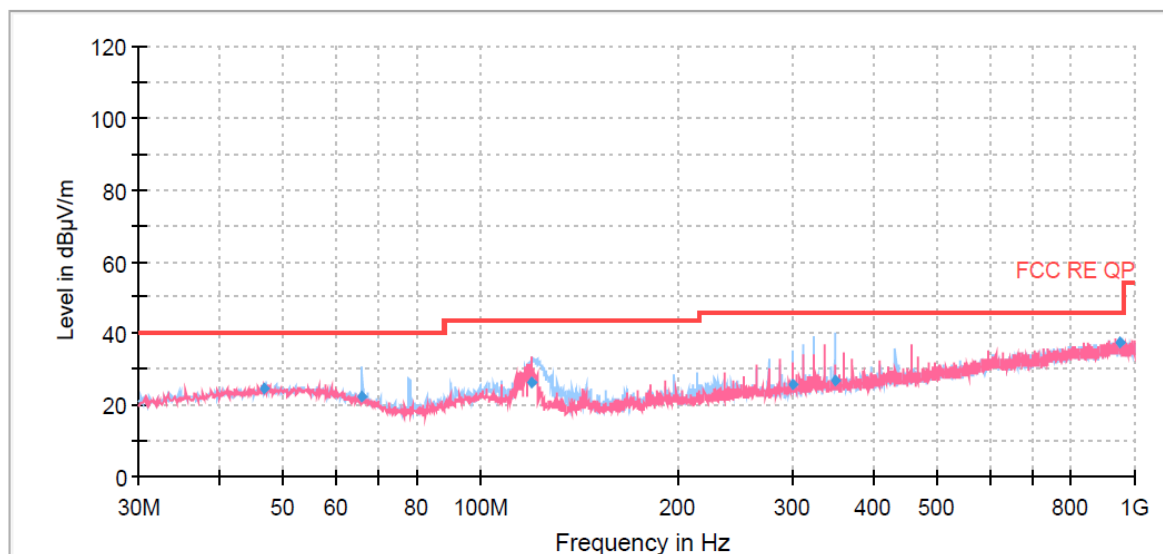
For above 1GHz

~ 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:

KR272

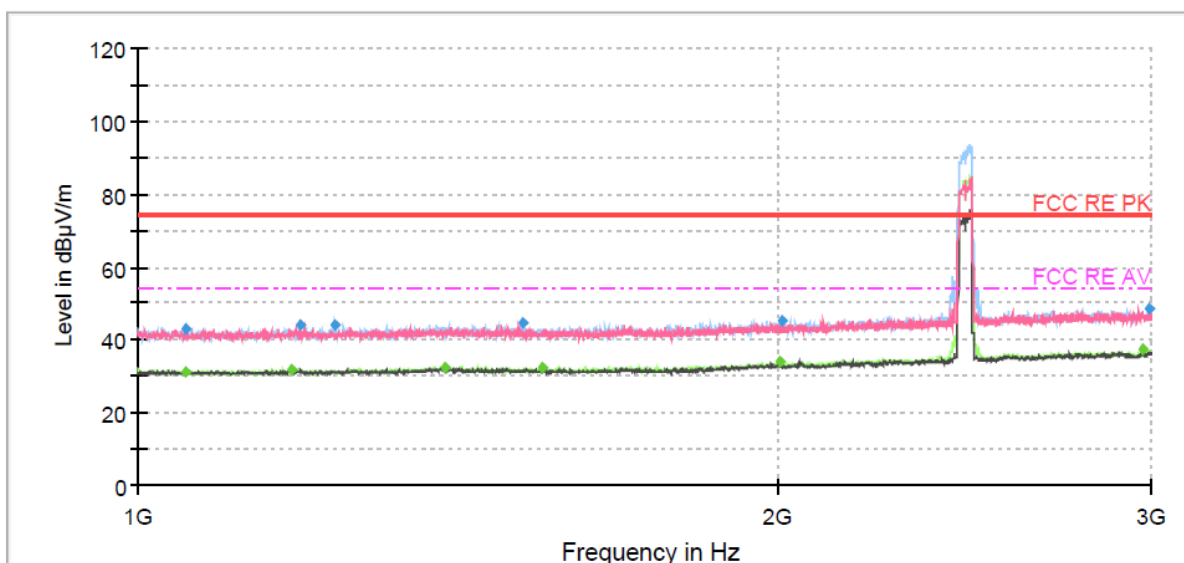
802.11n (HT40) CH9



Radiates Emission from 30MHz to 1GHz

Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.61	24.78	40.00	15.22	1000.00	101.0	H	0.00	20
65.89	22.20	40.00	17.80	1000.00	101.0	H	0.00	17
119.85	26.15	43.50	17.35	1000.00	101.0	H	27.00	17
299.30	25.81	46.00	20.19	1000.00	101.0	H	348.00	21
347.31	26.96	46.00	19.04	1000.00	101.0	H	295.00	22
950.65	37.66	46.00	8.34	1000.00	101.0	V	90.00	32

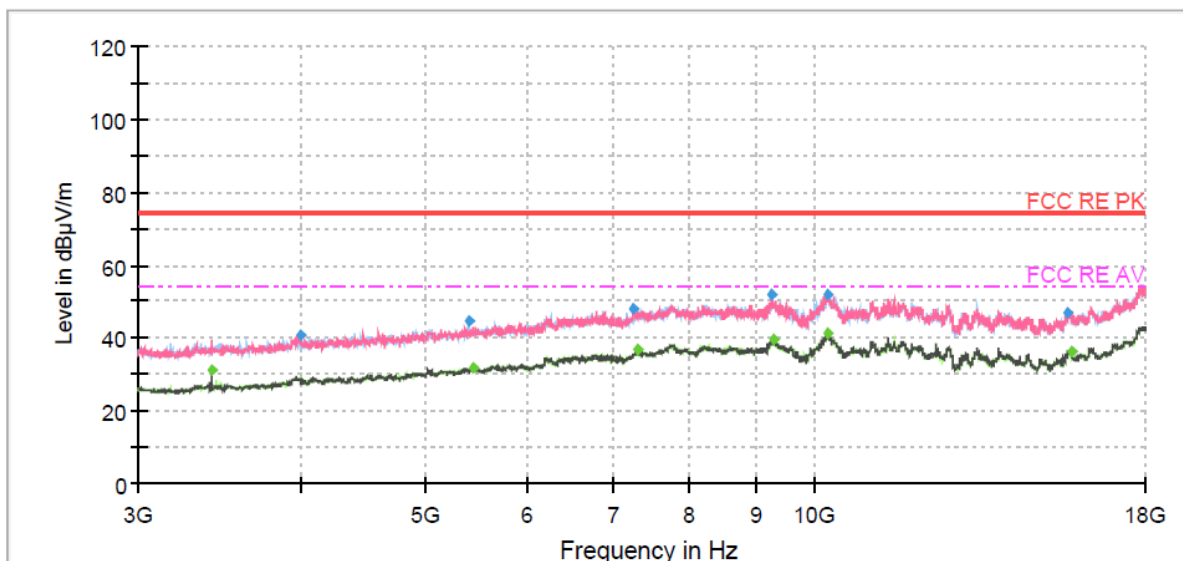


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.75	43.19	---	74.00	30.81	500.00	100.0	H	226.00	-12
1053.75	---	31.14	54.00	22.86	500.00	100.0	H	25.00	-12
1180.25	---	32.01	54.00	21.99	500.00	100.0	H	6.00	-12
1192.25	43.89	---	74.00	30.11	500.00	100.0	H	60.00	-12
1239.00	44.32	---	74.00	29.68	500.00	100.0	H	60.00	-12
1396.25	---	32.51	54.00	21.49	500.00	200.0	H	358.00	-11
1516.25	44.57	---	74.00	29.43	500.00	200.0	H	0.00	-11
1549.75	---	32.55	54.00	21.45	500.00	100.0	H	181.00	-11
2004.00	---	33.99	54.00	20.01	500.00	100.0	H	99.00	-8
2008.75	45.11	---	74.00	28.89	500.00	100.0	H	0.00	-8
2973.25	---	37.29	54.00	16.71	500.00	100.0	H	2.00	-4
2994.50	48.49	---	74.00	25.51	500.00	200.0	H	317.00	-4



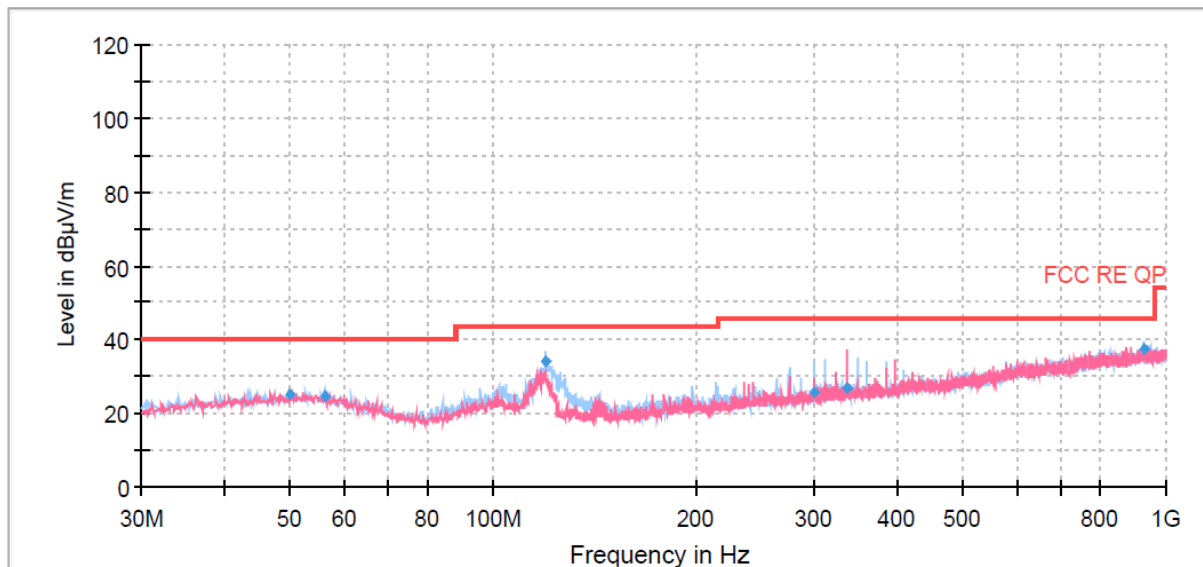
Radiates Emission from 3GHz to 18GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3418.13	---	31.01	54.00	22.99	500.00	100.0	V	239.00	-14
4008.75	40.53	---	74.00	33.47	500.00	200.0	V	1.00	-12
5405.63	44.50	---	74.00	29.50	500.00	100.0	H	217.00	-8
5441.25	---	31.96	54.00	22.04	500.00	200.0	H	358.00	-8
7243.13	47.73	---	74.00	26.27	500.00	100.0	V	359.00	-1
7293.75	---	36.84	54.00	17.16	500.00	100.0	V	130.00	0
9271.88	51.68	---	74.00	22.32	500.00	200.0	V	107.00	2
9273.75	---	39.49	54.00	14.51	500.00	100.0	H	107.00	2
10209.38	---	41.24	54.00	12.76	500.00	200.0	H	146.00	2
10233.75	52.11	---	74.00	21.89	500.00	100.0	H	168.00	2
15675.00	47.13	---	74.00	26.87	500.00	100.0	H	1.00	7
15781.88	---	36.39	54.00	17.61	500.00	200.0	V	8.00	7

KR274

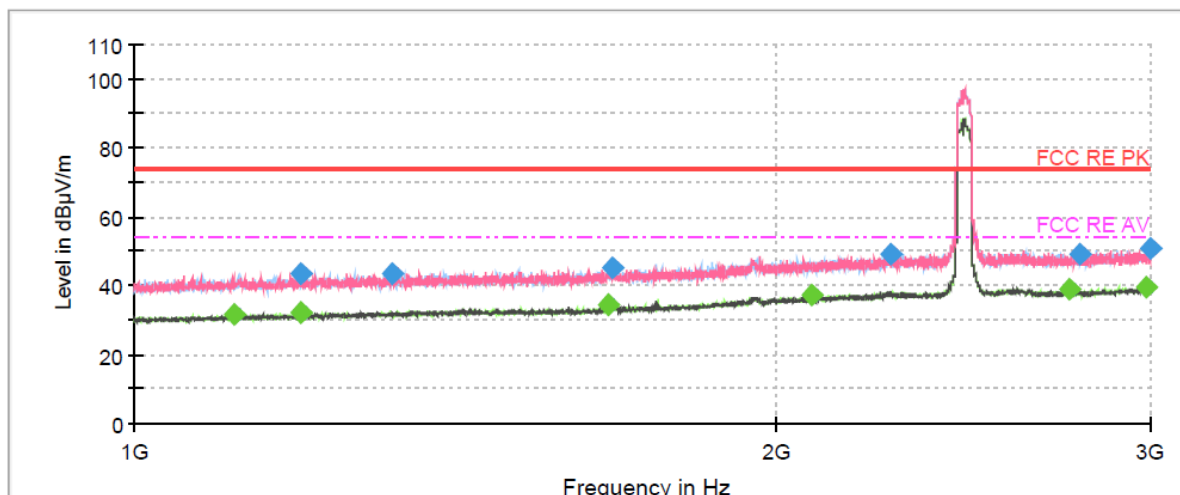
802.11n (HT40) CH9



Radiates Emission from 30MHz to 1GHz

Final Result

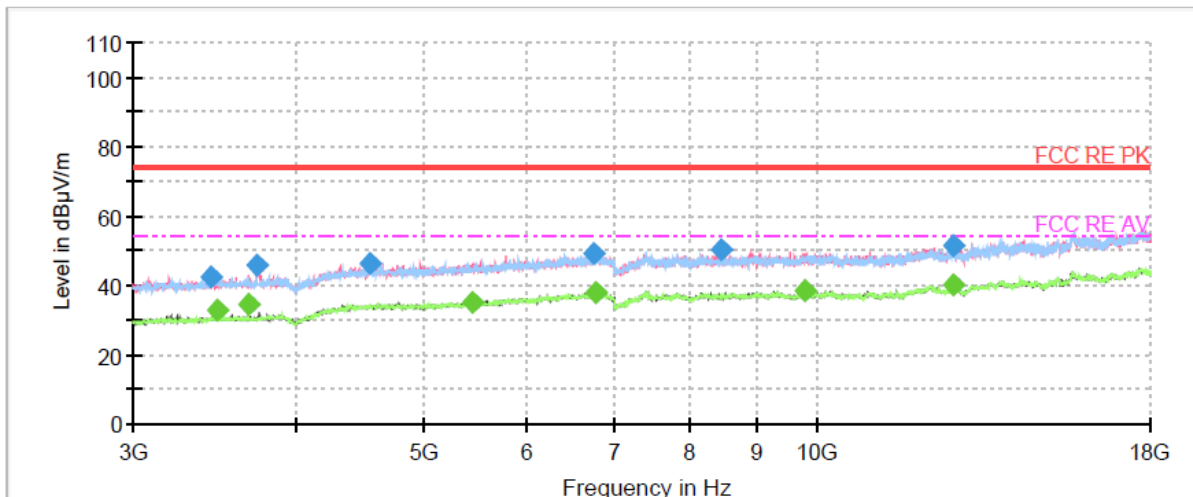
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.76	24.85	40.00	15.15	1000.00	200.0	V	321.00	20
56.07	24.78	40.00	15.22	1000.00	100.0	H	236.00	20
119.73	34.28	43.50	9.22	1000.00	100.0	H	0.00	17
299.30	25.80	46.00	20.20	1000.00	100.0	H	110.00	21
335.31	26.55	46.00	19.45	1000.00	200.0	V	347.00	22
925.80	37.53	46.00	8.47	1000.00	100.0	H	288.00	32



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

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1113.000000	---	31.72	54.00	22.28	500.0	200.0	V	220.0	-7
1196.000000	43.25	---	74.00	30.75	500.0	200.0	H	113.0	-6
1198.000000	---	32.04	54.00	21.96	500.0	200.0	H	139.0	-6
1320.500000	43.69	---	74.00	30.31	500.0	100.0	H	10.0	-5
1670.250000	---	34.34	54.00	19.66	500.0	200.0	H	91.0	-2
1677.750000	45.11	---	74.00	28.89	500.0	200.0	H	80.0	-2
2080.000000	---	37.00	54.00	17.00	500.0	200.0	V	102.0	0
2264.250000	49.29	---	74.00	24.71	500.0	100.0	H	10.0	1
2745.250000	---	38.68	54.00	15.32	500.0	200.0	H	103.0	2
2776.750000	49.20	---	74.00	24.80	500.0	200.0	V	109.0	2
2986.750000	---	39.51	54.00	14.49	500.0	100.0	H	180.0	3
2999.000000	50.85	---	74.00	23.15	500.0	200.0	V	5.0	3



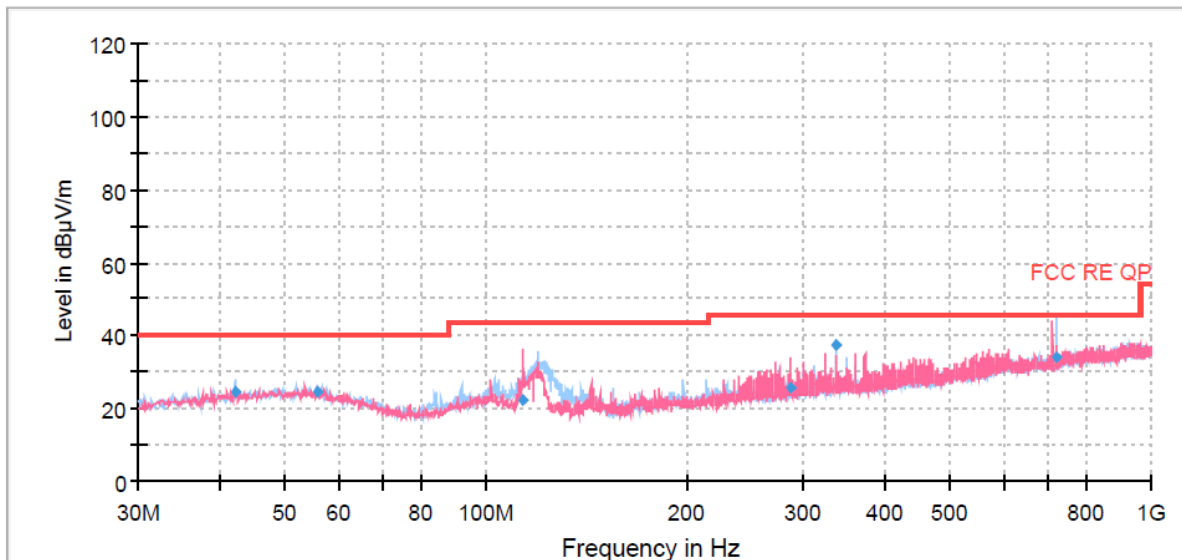
Radiates Emission from 3GHz to 18GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3433.125000	42.57	---	74.00	31.43	500.0	200.0	H	23.0	-6
3478.125000	---	32.78	54.00	21.22	500.0	100.0	H	54.0	-6
3676.875000	---	34.16	54.00	19.84	500.0	200.0	V	12.0	-6
3735.000000	45.74	---	74.00	28.26	500.0	200.0	V	143.0	-6
4550.625000	46.17	---	74.00	27.83	500.0	100.0	V	23.0	-2
5448.750000	---	35.07	54.00	18.93	500.0	200.0	V	234.0	0
6742.500000	49.17	---	74.00	24.83	500.0	200.0	H	163.0	1
6778.125000	---	37.87	54.00	16.13	500.0	200.0	V	3.0	1
8448.750000	49.95	---	74.00	24.05	500.0	100.0	V	203.0	3
9806.250000	---	38.31	54.00	15.69	500.0	200.0	V	72.0	3
12725.625000	---	39.92	54.00	14.08	500.0	100.0	V	62.0	5
12729.375000	51.56	---	74.00	22.44	500.0	200.0	V	52.0	5

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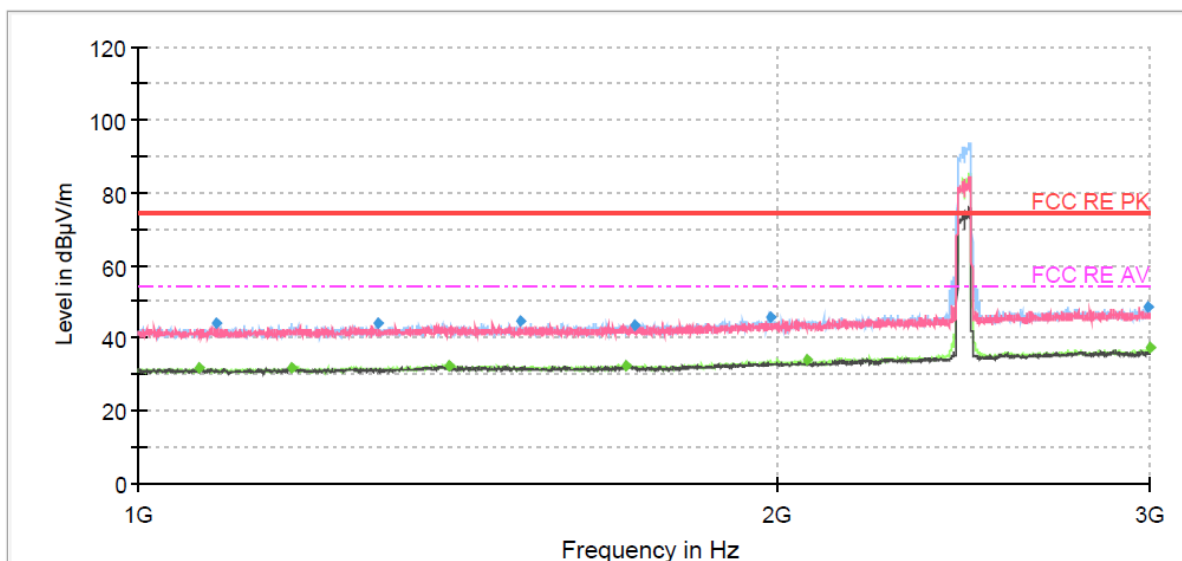
802.11n (HT40) CH9



Radiates Emission from 30MHz to 1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.88	24.32	40.00	15.68	1000.00	200.0	H	8.00	19
55.95	24.71	40.00	15.29	1000.00	100.0	H	26.00	20
113.78	22.41	43.50	21.09	1000.00	200.0	V	2.00	18
287.54	25.50	46.00	20.50	1000.00	100.0	V	306.00	21
335.43	37.38	46.00	8.62	1000.00	100.0	H	70.00	22
718.09	34.13	46.00	11.87	1000.00	100.0	H	333.00	28

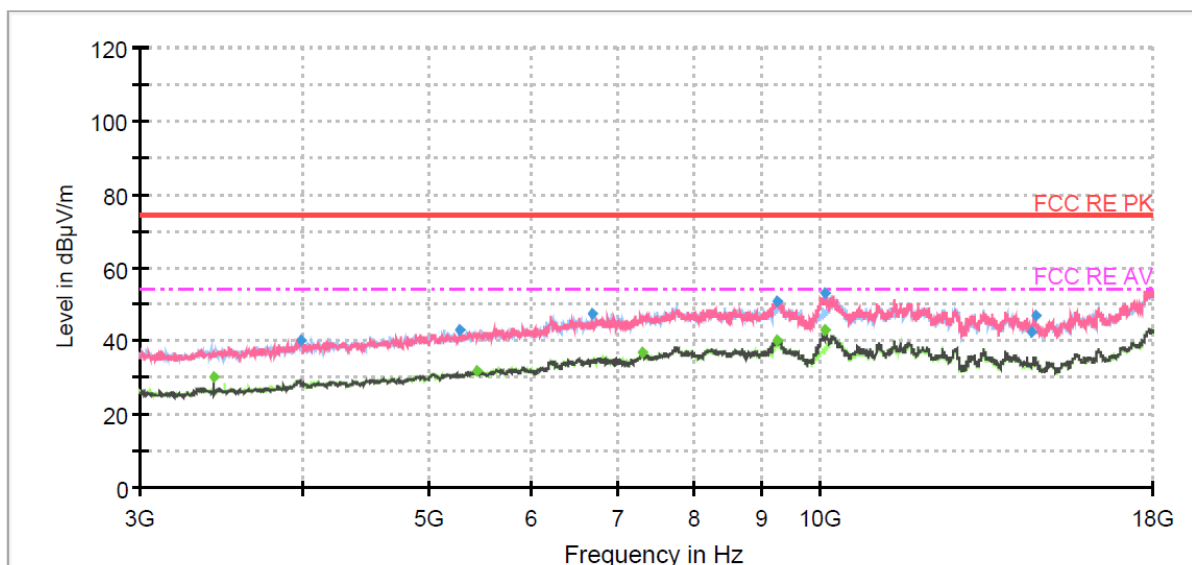


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1068.00	---	31.78	54.00	22.22	500.00	100.0	V	346.00	-12
1087.50	43.87	---	74.00	30.13	500.00	200.0	V	1.00	-12
1180.75	---	31.71	54.00	22.29	500.00	100.0	H	0.00	-12
1297.25	44.14	---	74.00	29.86	500.00	100.0	H	0.00	-11
1400.50	---	32.52	54.00	21.48	500.00	100.0	H	51.00	-11
1513.25	44.48	---	74.00	29.52	500.00	100.0	V	67.00	-11
1698.50	---	32.58	54.00	21.42	500.00	100.0	H	20.00	-10
1714.50	43.57	---	74.00	30.43	500.00	200.0	H	238.00	-10
1988.50	45.82	---	74.00	28.18	500.00	200.0	H	251.00	-8
2065.75	---	34.03	54.00	19.97	500.00	100.0	H	0.00	-8
2992.25	48.49	---	74.00	25.51	500.00	200.0	H	0.00	-4
2998.00	---	37.30	54.00	16.70	500.00	200.0	H	251.00	-4



Radiates Emission from 3GHz to 18GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3418.13	---	30.12	54.00	23.88	500.00	200.0	V	7.00	-14
3990.00	40.35	---	74.00	33.65	500.00	200.0	V	78.00	-11
5285.63	42.92	---	74.00	31.08	500.00	100.0	V	22.00	-9
5443.13	---	31.90	54.00	22.10	500.00	200.0	H	282.00	-8
6669.38	47.70	---	74.00	26.30	500.00	200.0	H	356.00	-3
7293.75	---	36.75	54.00	17.25	500.00	100.0	H	0.00	0
9238.13	50.98	---	74.00	23.02	500.00	100.0	V	336.00	2
9271.88	---	40.24	54.00	13.76	500.00	100.0	V	357.00	2
10074.38	---	42.95	54.00	11.05	500.00	100.0	V	283.00	1
10076.25	52.93	---	74.00	21.07	500.00	100.0	V	354.00	1
14540.63	42.44	---	74.00	31.56	500.00	200.0	H	359.00	5
14608.13	47.15	---	74.00	26.85	500.00	100.0	V	336.00	5

1.2. Bluetooth LE

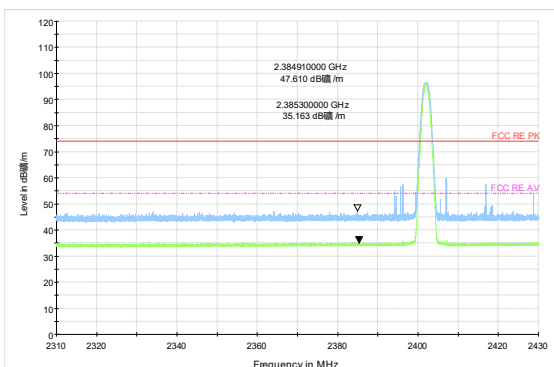
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

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.

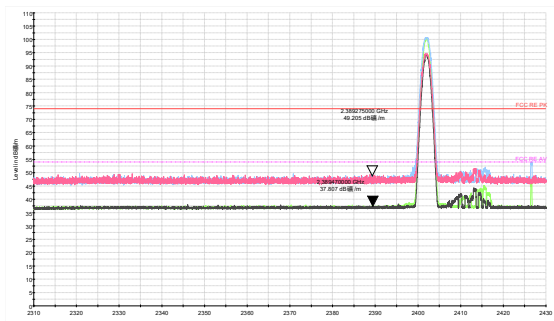
After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.

KR272



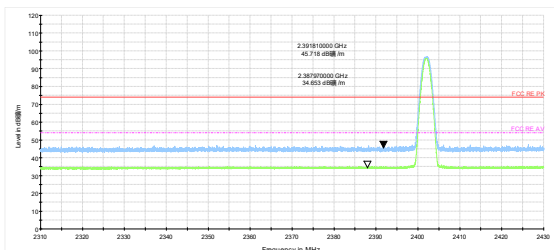
Bluetooth LE (1M) Channel 0 Peak+ Average

KR274



Bluetooth LE (1M) Channel 0 Peak+ Average

KR276



Bluetooth LE (1M) Channel 0 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. **The following graphs display the maximum values of horizontal and vertical by software.**
4. **For below 1GHz**

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

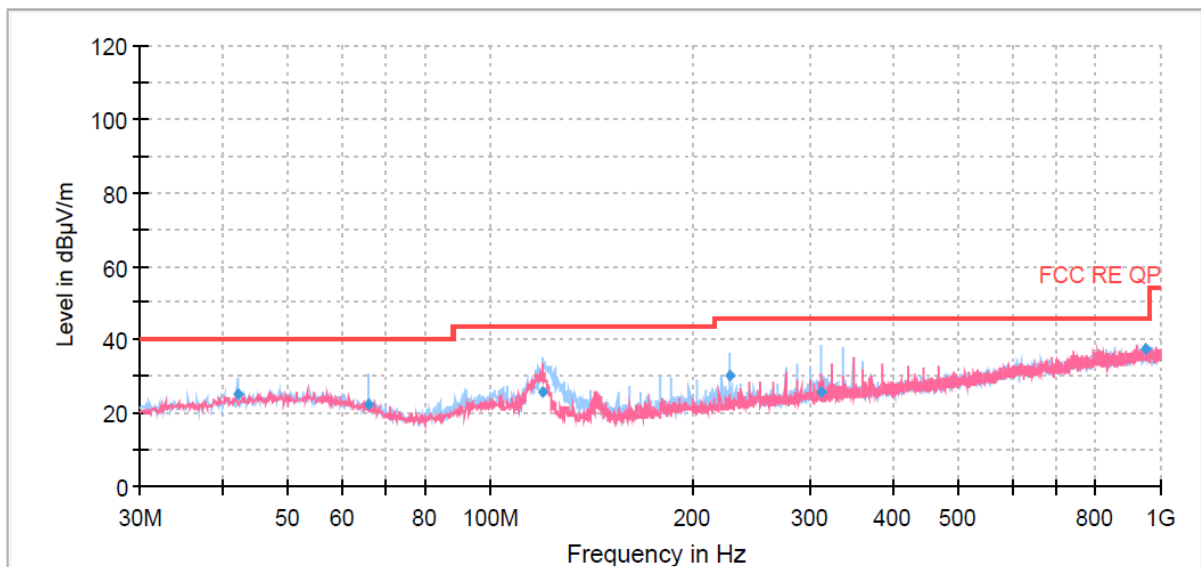
For above 1GHz

~ 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:

KR272

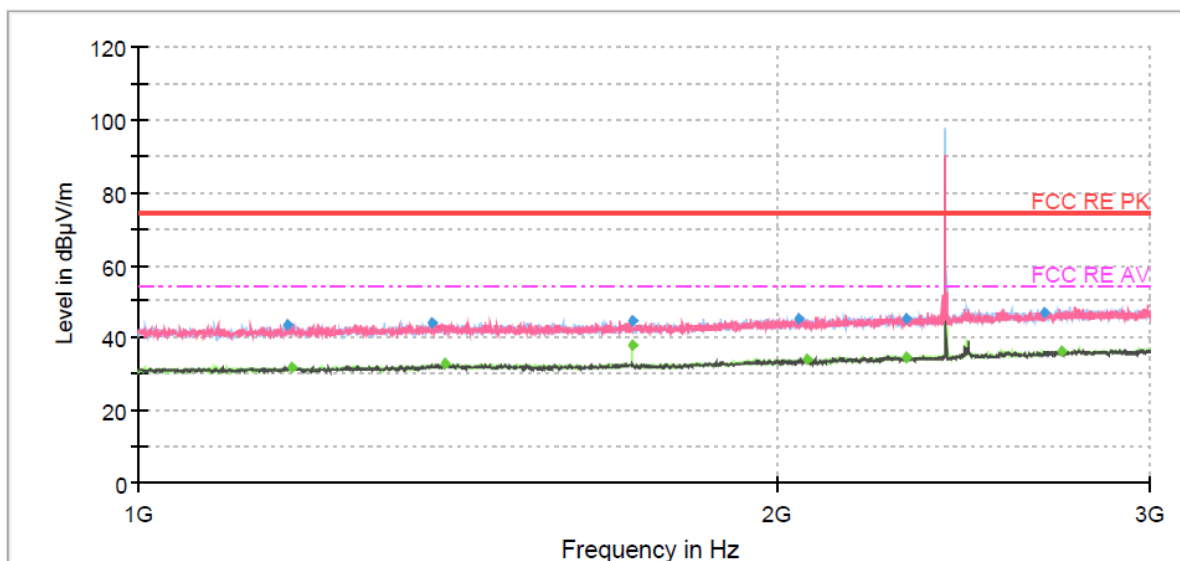
Bluetooth LE-Channel 0



Radiates Emission from 30MHz to 1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.88	25.12	40.00	14.88	1000.00	100.0	H	22.00	19
65.89	22.16	40.00	17.84	1000.00	200.0	H	173.00	17
119.73	25.68	43.50	17.82	1000.00	100.0	H	22.00	17
227.52	29.88	46.00	16.12	1000.00	100.0	H	90.00	19
311.42	25.86	46.00	20.14	1000.00	101.0	H	352.00	21
946.17	37.61	46.00	8.39	1000.00	200.0	V	291.00	32

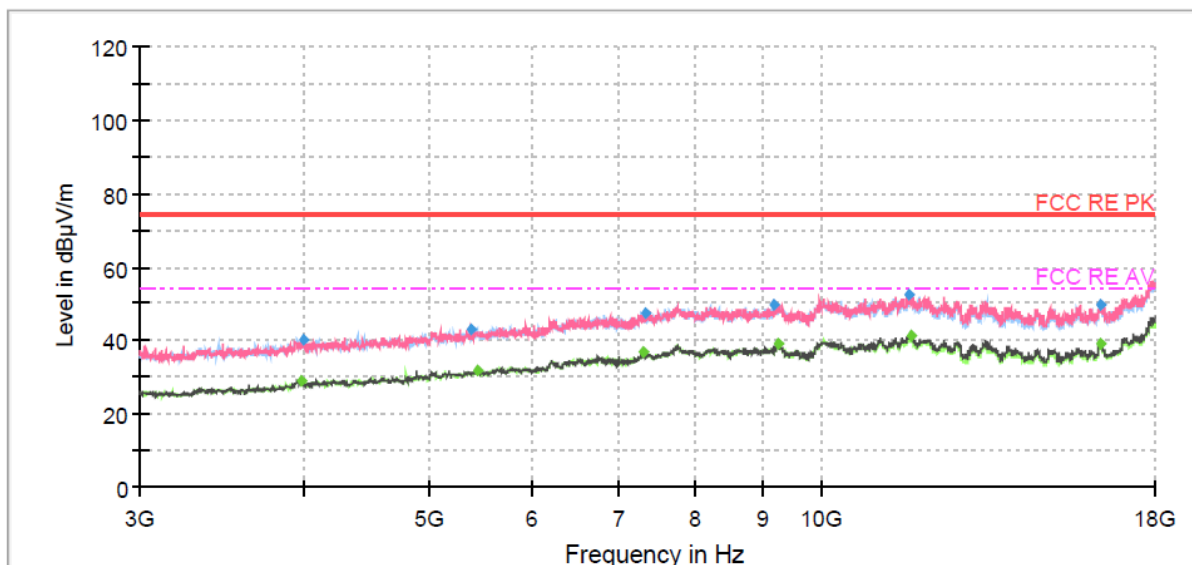


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Final Result

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	43.54	---	74.00	30.46	500.00	100.0	H	17.00	-12
1180.00	---	32.03	54.00	21.97	500.00	100.0	V	0.00	-12
1374.75	44.25	---	74.00	29.75	500.00	100.0	H	80.00	-11
1395.75	---	32.75	54.00	21.25	500.00	100.0	H	3.00	-11
1710.75	44.66	---	74.00	29.34	500.00	100.0	H	330.00	-10
1711.00	---	37.90	54.00	16.10	500.00	100.0	H	330.00	-10
2048.00	45.17	---	74.00	28.83	500.00	200.0	V	51.00	-8
2066.00	---	34.29	54.00	19.71	500.00	100.0	H	1.00	-8
2301.25	45.28	---	74.00	28.72	500.00	100.0	H	4.00	-7
2302.50	---	34.75	54.00	19.25	500.00	100.0	H	23.00	-7
2676.50	47.11	---	74.00	26.89	500.00	200.0	H	304.00	-5
2727.00	---	36.46	54.00	17.54	500.00	100.0	H	2.00	-5



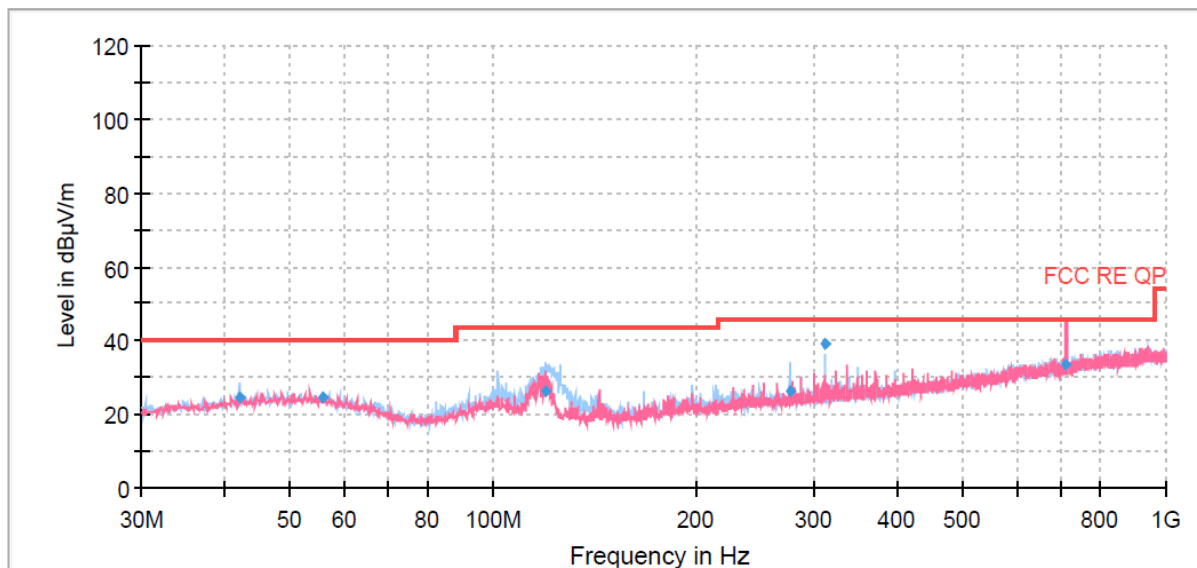
Radiates Emission from 3GHz to 18GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3980.63	---	29.25	54.00	24.75	500.00	200.0	V	0.00	-11
4001.25	40.20	---	74.00	33.80	500.00	200.0	V	2.00	-11
5390.63	43.00	---	74.00	31.00	500.00	200.0	V	0.00	-8
5435.63	---	31.95	54.00	22.05	500.00	100.0	H	54.00	-8
7295.63	---	36.60	54.00	17.40	500.00	100.0	H	4.00	0
7312.50	47.29	---	74.00	26.71	500.00	200.0	H	127.00	-1
9181.88	49.83	---	74.00	24.17	500.00	200.0	V	10.00	1
9243.75	---	38.87	54.00	15.13	500.00	200.0	H	232.00	2
11656.88	52.24	---	74.00	21.76	500.00	100.0	V	0.00	6
11694.38	---	41.58	54.00	12.42	500.00	100.0	V	332.00	6
16323.75	---	38.99	54.00	15.01	500.00	100.0	V	332.00	8
16323.75	49.74	---	74.00	24.26	500.00	100.0	V	332.00	8

KR274

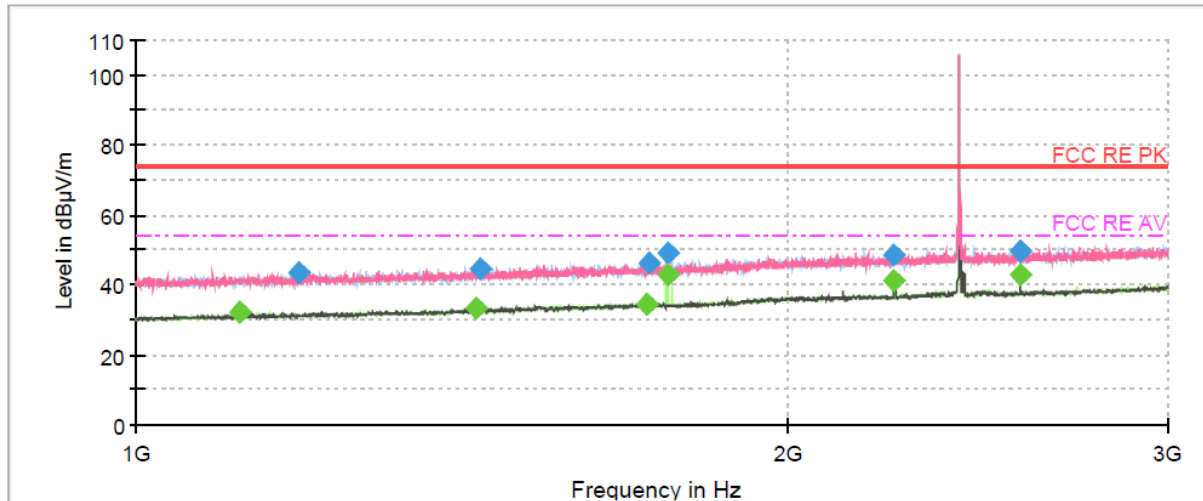
Bluetooth LE-Channel 0



Radiates Emission from 30MHz to 1GHz

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.88	24.48	40.00	15.52	1000.00	199.0	H	7.00	19
55.95	24.75	40.00	15.25	1000.00	100.0	H	193.00	20
119.73	26.04	43.50	17.46	1000.00	100.0	H	0.00	17
275.53	26.00	46.00	20.00	1000.00	100.0	H	141.00	20
311.42	38.84	46.00	7.16	1000.00	100.0	H	0.00	21
711.43	33.71	46.00	12.29	1000.00	100.0	V	324.00	28

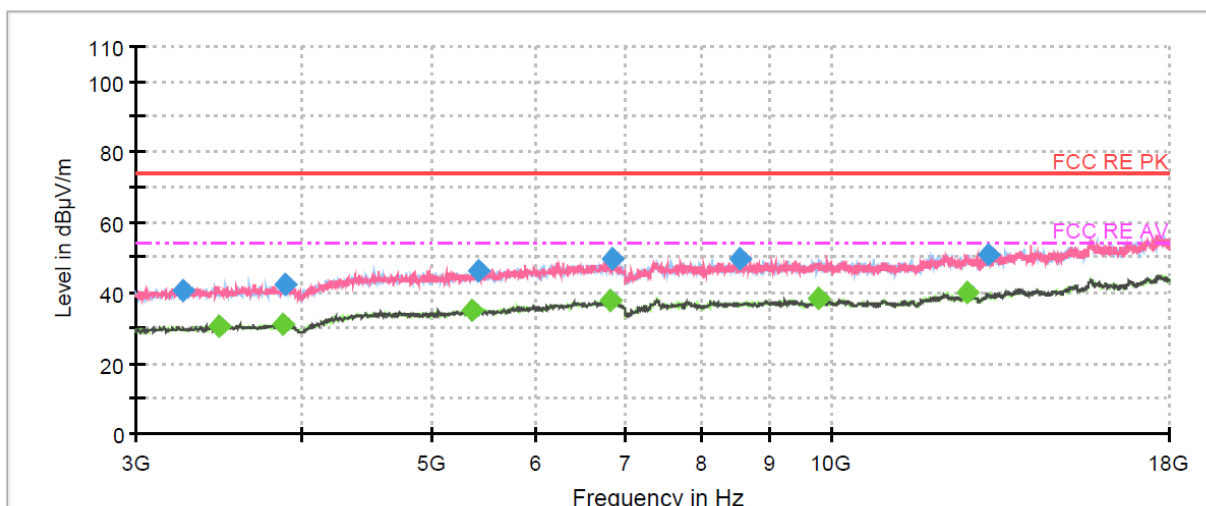


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1117.500000	---	31.94	54.00	22.06	500.0	200.0	H	354.0	-7
1189.250000	43.27	---	74.00	30.73	500.0	100.0	V	56.0	-6
1437.000000	---	33.27	54.00	20.73	500.0	200.0	V	29.0	-4
1442.000000	44.39	---	74.00	29.61	500.0	100.0	V	205.0	-4
1724.250000	---	34.55	54.00	19.45	500.0	200.0	V	0.0	-2
1725.500000	46.14	---	74.00	27.86	500.0	200.0	V	349.0	-2
1759.750000	48.85	---	74.00	25.15	500.0	200.0	H	359.0	-2
1759.750000	---	43.10	54.00	10.90	500.0	100.0	H	359.0	-2
2241.750000	48.78	---	74.00	25.22	500.0	200.0	H	180.0	1
2242.000000	---	40.98	54.00	13.02	500.0	200.0	V	75.0	1
2562.000000	---	42.61	54.00	11.39	500.0	100.0	V	112.0	2
2562.250000	49.92	---	74.00	24.08	500.0	200.0	V	140.0	2



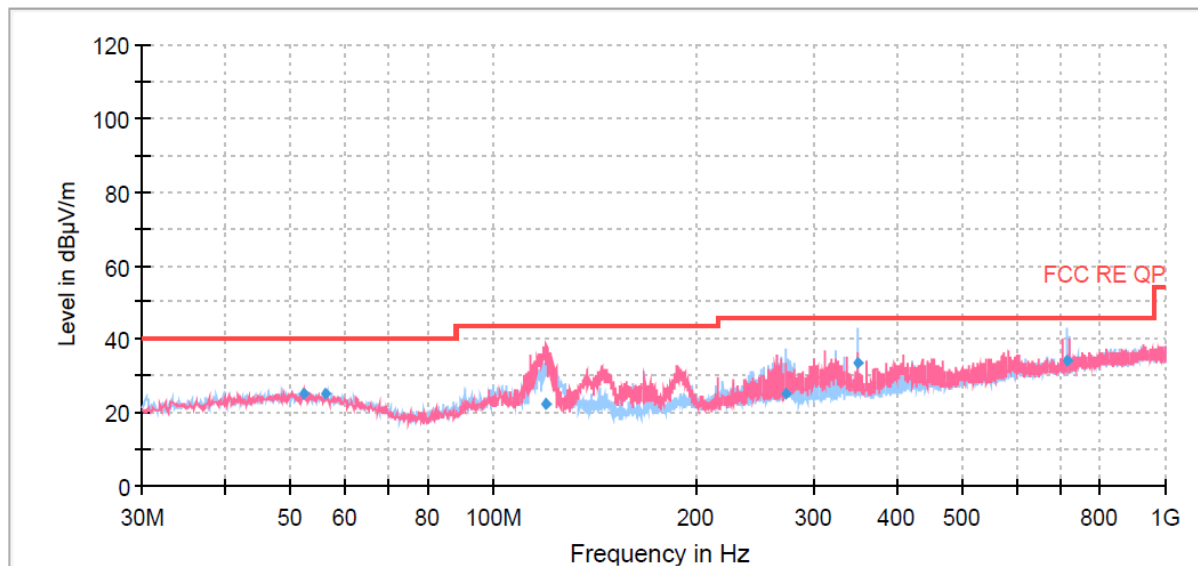
Radiates Emission from 3GHz to 18GHz

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.500000	40.40	---	74.00	33.60	500.0	200.0	H	350.0	-7
3466.875000	---	30.56	54.00	23.44	500.0	200.0	V	3.0	-6
3875.625000	---	31.12	54.00	22.88	500.0	200.0	V	53.0	-5
3877.500000	42.55	---	74.00	31.45	500.0	200.0	H	115.0	-5
5373.750000	---	35.19	54.00	18.81	500.0	200.0	H	0.0	-1
5441.250000	46.12	---	74.00	27.88	500.0	200.0	V	174.0	0
6819.375000	---	37.80	54.00	16.20	500.0	200.0	H	0.0	1
6849.375000	49.48	---	74.00	24.52	500.0	200.0	H	288.0	1
8563.125000	49.67	---	74.00	24.33	500.0	200.0	H	288.0	3
9789.375000	---	38.34	54.00	15.66	500.0	200.0	H	0.0	3
12691.875000	---	40.19	54.00	13.81	500.0	200.0	V	53.0	5
13158.750000	50.99	---	74.00	23.01	500.0	200.0	H	186.0	5

KR276

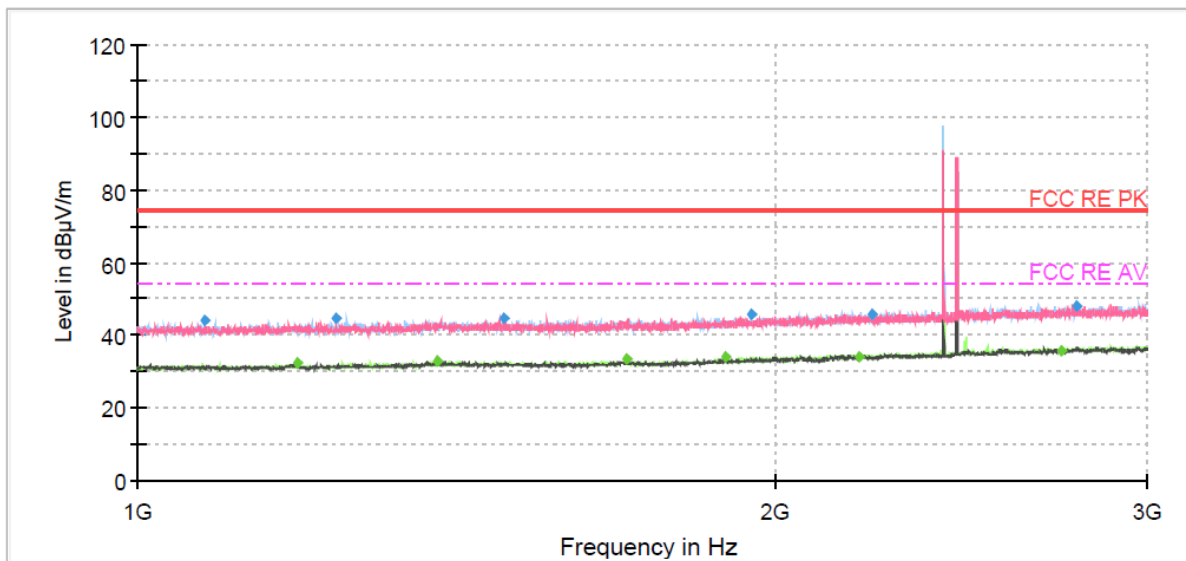
Bluetooth LE-Channel 0



Radiates Emission from 30MHz to 1GHz

Final Result

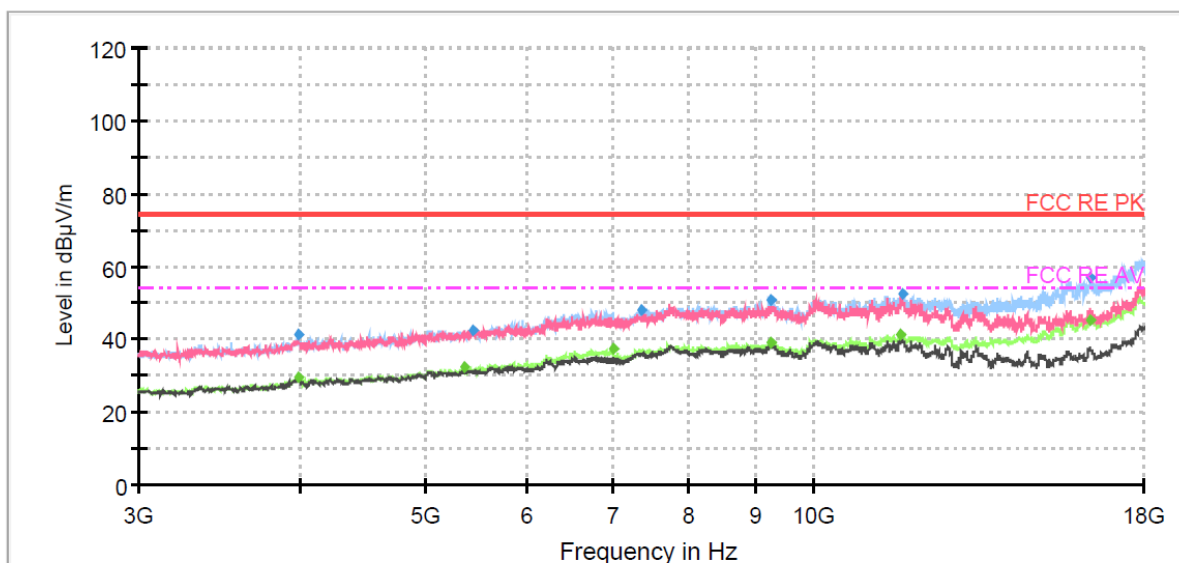
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
52.07	25.00	40.00	15.00	1000.00	100.0	V	34.00	20
56.19	24.97	40.00	15.03	1000.00	100.0	H	66.00	20
119.97	22.41	43.50	21.09	1000.00	100.0	V	177.00	17
272.02	25.04	46.00	20.96	1000.00	100.0	H	0.00	20
347.43	33.69	46.00	12.31	1000.00	100.0	H	19.00	22
716.03	33.85	46.00	12.15	1000.00	100.0	H	0.00	28



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

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1074.50	44.03	---	74.00	29.97	500.00	100.0	H	263.00	-12
1189.75	---	32.32	54.00	21.68	500.00	200.0	H	225.00	-12
1240.75	44.52	---	74.00	29.48	500.00	200.0	V	122.00	-12
1384.50	---	33.01	54.00	20.99	500.00	200.0	H	358.00	-11
1490.75	44.62	---	74.00	29.38	500.00	100.0	V	236.00	-11
1702.75	---	33.53	54.00	20.47	500.00	200.0	H	315.00	-10
1894.75	---	34.18	54.00	19.82	500.00	200.0	V	164.00	-9
1951.50	45.53	---	74.00	28.47	500.00	200.0	H	128.00	-8
2193.50	---	34.11	54.00	19.89	500.00	200.0	H	0.00	-7
2221.50	45.62	---	74.00	28.38	500.00	100.0	H	0.00	-7
2734.00	---	36.00	54.00	18.00	500.00	200.0	H	358.00	-5
2780.00	48.00	---	74.00	26.00	500.00	100.0	H	2.00	-5



Radiates Emission from 3GHz to 18GHz

Final Result

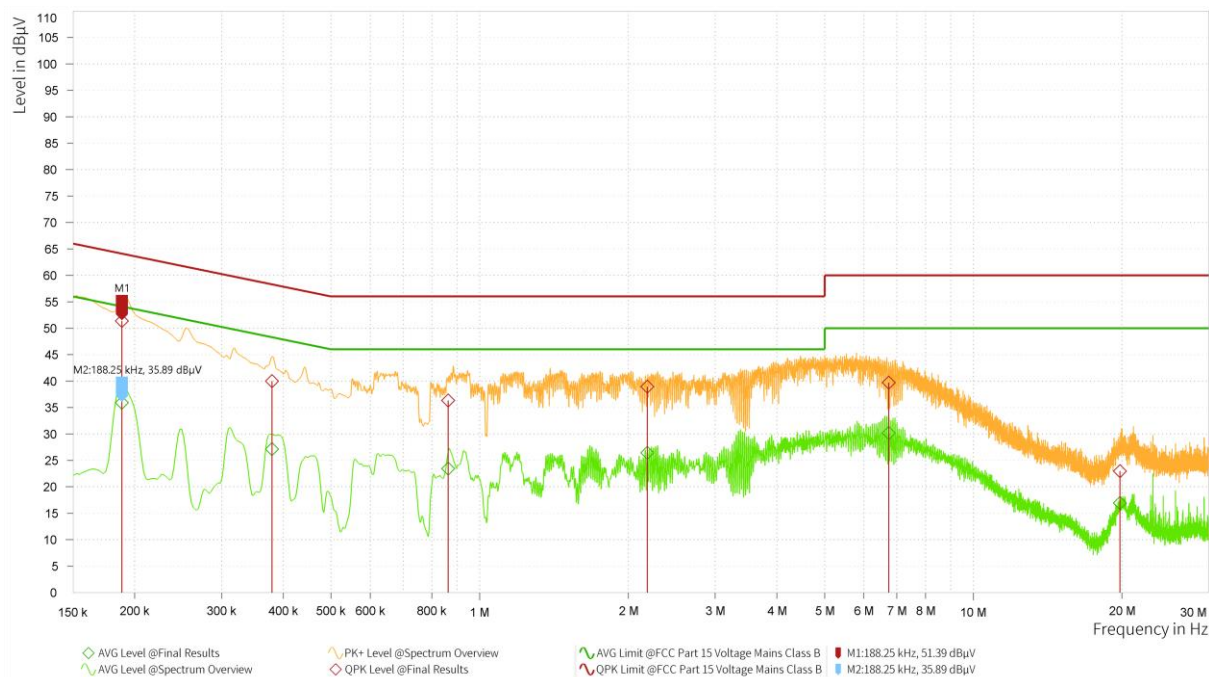
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3990.00	---	29.47	54.00	24.53	500.00	100.0	H	0.00	-11
3990.00	41.07	---	74.00	32.93	500.00	100.0	H	0.00	-11
5360.63	---	32.10	54.00	21.90	500.00	100.0	H	7.00	-8
5437.50	42.50	---	74.00	31.50	500.00	200.0	V	142.00	-8
6982.50	---	37.56	54.00	16.44	500.00	100.0	H	22.00	-2
7342.50	47.96	---	74.00	26.04	500.00	100.0	H	7.00	-1
9268.13	---	39.33	54.00	14.67	500.00	100.0	H	11.00	2
9270.00	50.77	---	74.00	23.23	500.00	100.0	H	3.00	2
11660.63	---	41.38	54.00	12.62	500.00	100.0	H	11.00	6
11692.50	52.69	---	74.00	21.31	500.00	100.0	H	7.00	6
16351.88	---	45.41	54.00	8.59	500.00	100.0	H	1.00	8
16357.50	56.98	---	74.00	17.02	500.00	100.0	H	2.00	8

2. Conducted Emission

2.1. Wi-Fi 2.4GHz

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.

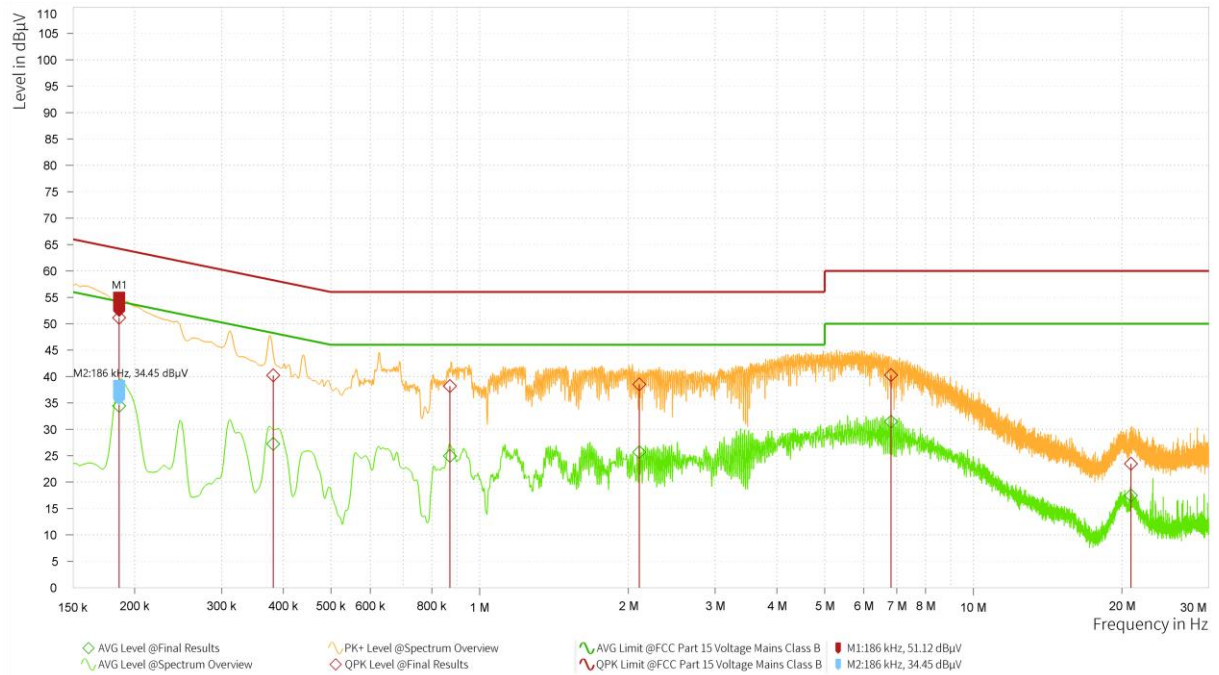
KR272



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]
0.188	51.39	64.11	12.72	35.89	54.11	18.22	21.02	L1	9.000	1.000
0.380	40.00	58.29	18.29	27.14	48.29	21.15	20.90	L1	9.000	1.000
0.863	36.34	56.00	19.66	23.44	46.00	22.56	20.27	L1	9.000	1.000
2.186	38.96	56.00	17.04	26.43	46.00	19.57	19.60	L1	9.000	1.000
6.740	39.68	60.00	20.32	30.19	50.00	19.81	19.41	L1	9.000	1.000
19.813	22.95	60.00	37.05	16.95	50.00	33.05	19.65	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

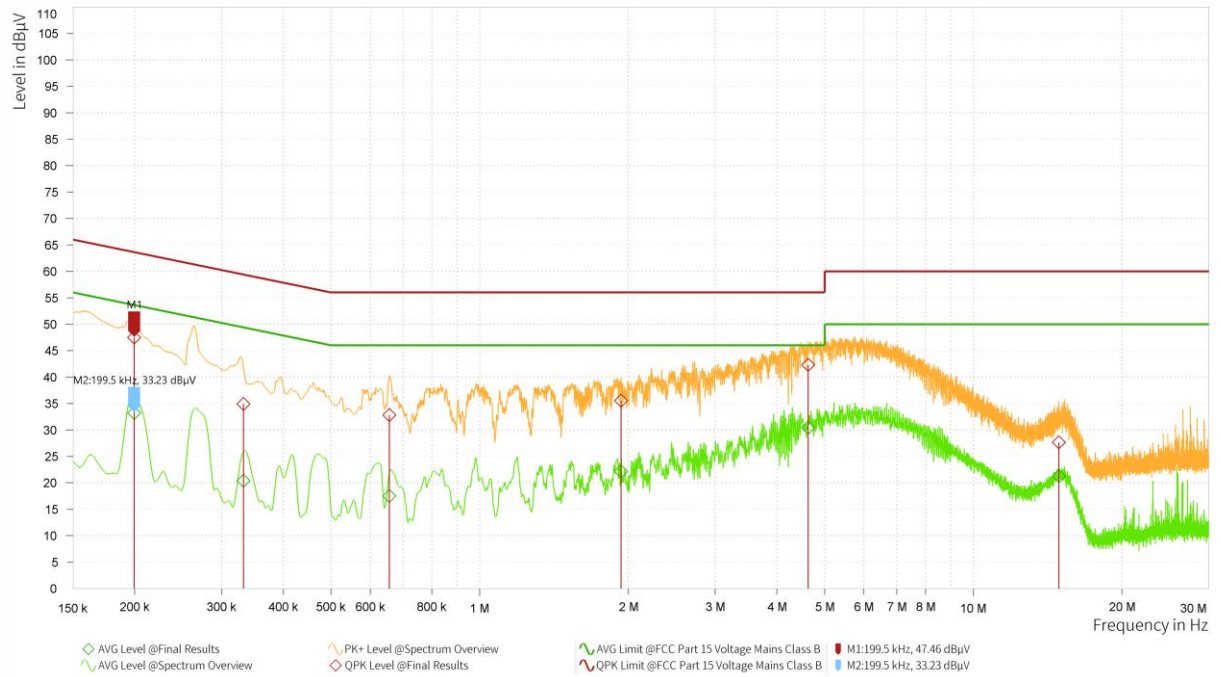


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.186	51.12	64.21	13.09	34.45	54.21	19.77	21.03	N	9.000	1.000
0.382	40.24	58.24	18.00	27.24	48.24	21.00	20.90	N	9.000	1.000
0.870	38.19	56.00	17.81	24.97	46.00	21.03	20.28	N	9.000	1.000
2.105	38.52	56.00	17.48	25.66	46.00	20.34	19.63	N	9.000	1.000
6.812	40.26	60.00	19.74	31.44	50.00	18.56	19.41	N	9.000	1.000
20.868	23.49	60.00	36.51	17.44	50.00	32.56	19.74	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

KR274



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]
0.200	47.46	63.63	16.17	33.23	53.63	20.41	21.01	L1	9.000	1.000
0.332	34.93	59.39	24.47	20.41	49.39	28.98	20.94	L1	9.000	1.000
0.656	32.82	56.00	23.18	17.49	46.00	28.51	20.62	L1	9.000	1.000
1.934	35.52	56.00	20.48	22.14	46.00	23.86	19.67	L1	9.000	1.000
4.630	42.32	56.00	13.68	30.43	46.00	15.57	19.41	L1	9.000	1.000
14.910	27.65	60.00	32.35	21.23	50.00	28.77	19.50	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

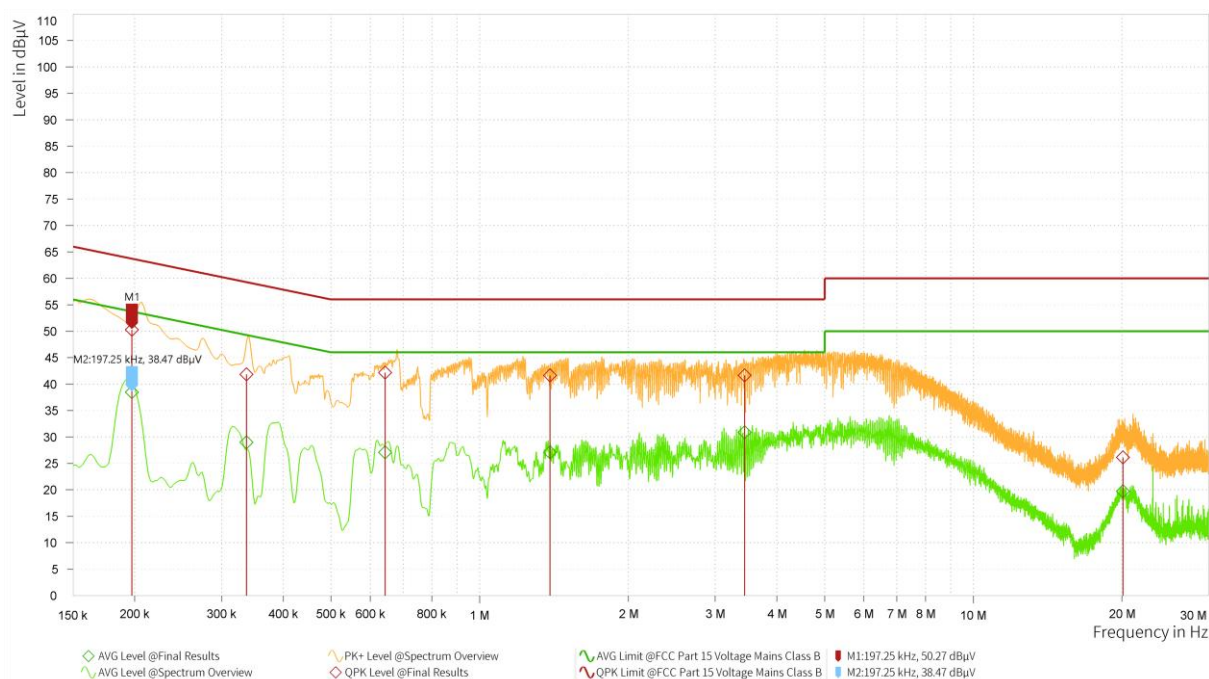


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.209	46.32	63.26	16.94	31.69	53.26	21.58	21.02	N	9.000	1.000
0.492	35.33	56.13	20.80	21.46	46.13	24.68	20.79	N	9.000	1.000
1.055	34.98	56.00	21.02	21.46	46.00	24.54	20.13	N	9.000	1.000
3.053	38.19	56.00	17.81	24.50	46.00	21.50	19.49	N	9.000	1.000
5.525	43.15	60.00	16.85	32.82	50.00	17.18	19.41	N	9.000	1.000
15.029	27.89	60.00	32.11	21.35	50.00	28.65	19.53	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

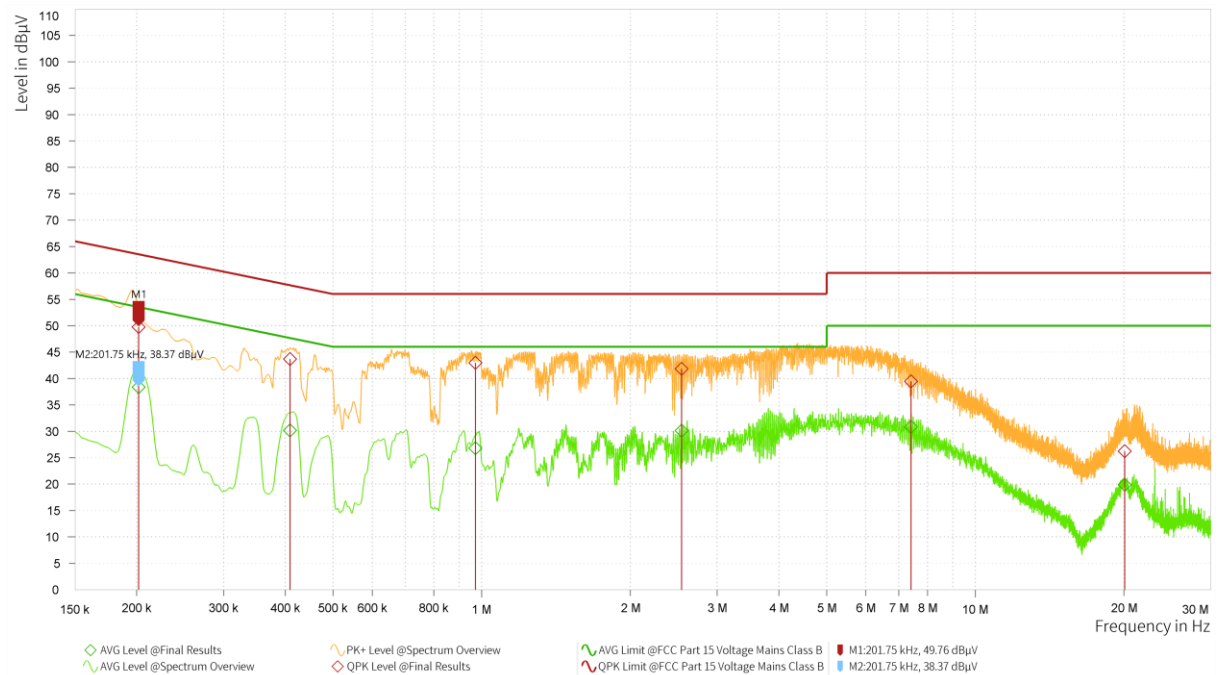
KR276



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]
0.197	50.27	63.73	13.45	38.47	53.73	15.26	21.02	L1	9.000	1.000
0.337	41.85	59.28	17.44	28.98	49.28	20.31	20.93	L1	9.000	1.000
0.643	42.19	56.00	13.81	27.10	46.00	18.90	20.63	L1	9.000	1.000
1.388	41.63	56.00	14.37	27.10	46.00	18.90	19.90	L1	9.000	1.000
3.440	41.65	56.00	14.35	30.90	46.00	15.10	19.45	L1	9.000	1.000
20.112	26.12	60.00	33.88	19.74	50.00	30.26	19.66	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]
0.202	49.76	63.54	13.78	38.37	53.54	15.16	21.02	N	9.000	1.000
0.409	43.67	57.67	14.00	30.18	47.67	17.49	20.88	N	9.000	1.000
0.971	42.96	56.00	13.04	26.80	46.00	19.20	20.19	N	9.000	1.000
2.540	41.82	56.00	14.18	30.10	46.00	15.90	19.55	N	9.000	1.000
7.413	39.45	60.00	20.55	30.82	50.00	19.18	19.41	N	9.000	1.000
20.074	26.22	60.00	33.78	19.89	50.00	30.11	19.71	N	9.000	1.000

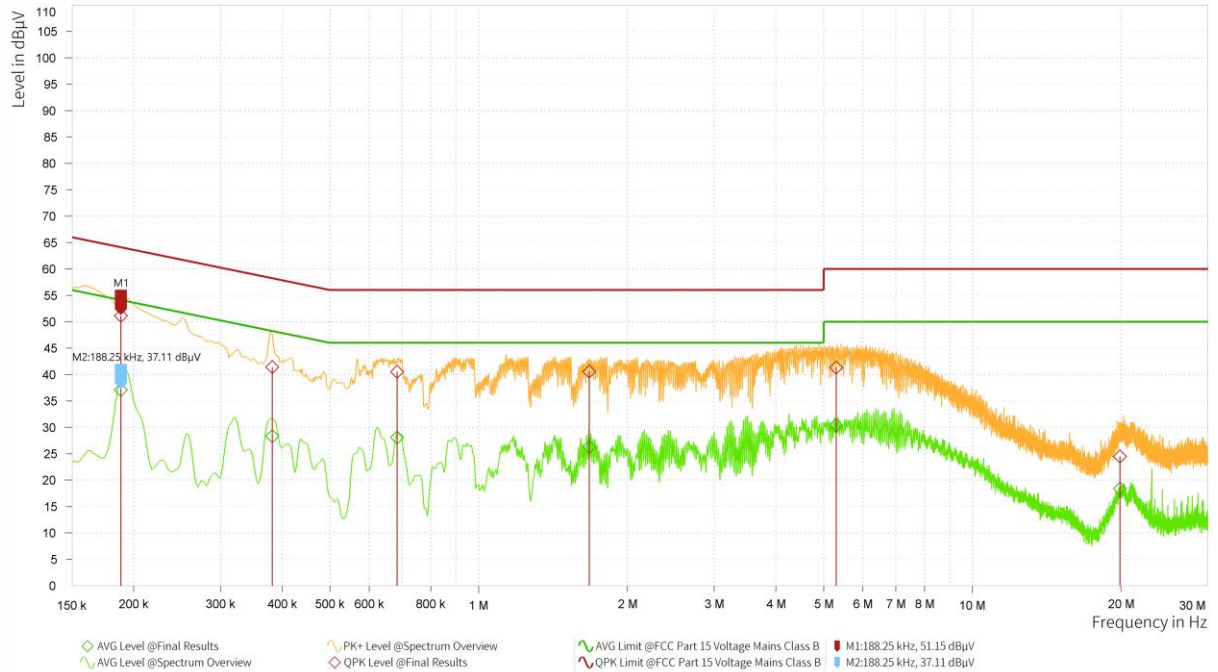
Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

2.2. Bluetooth LE

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.

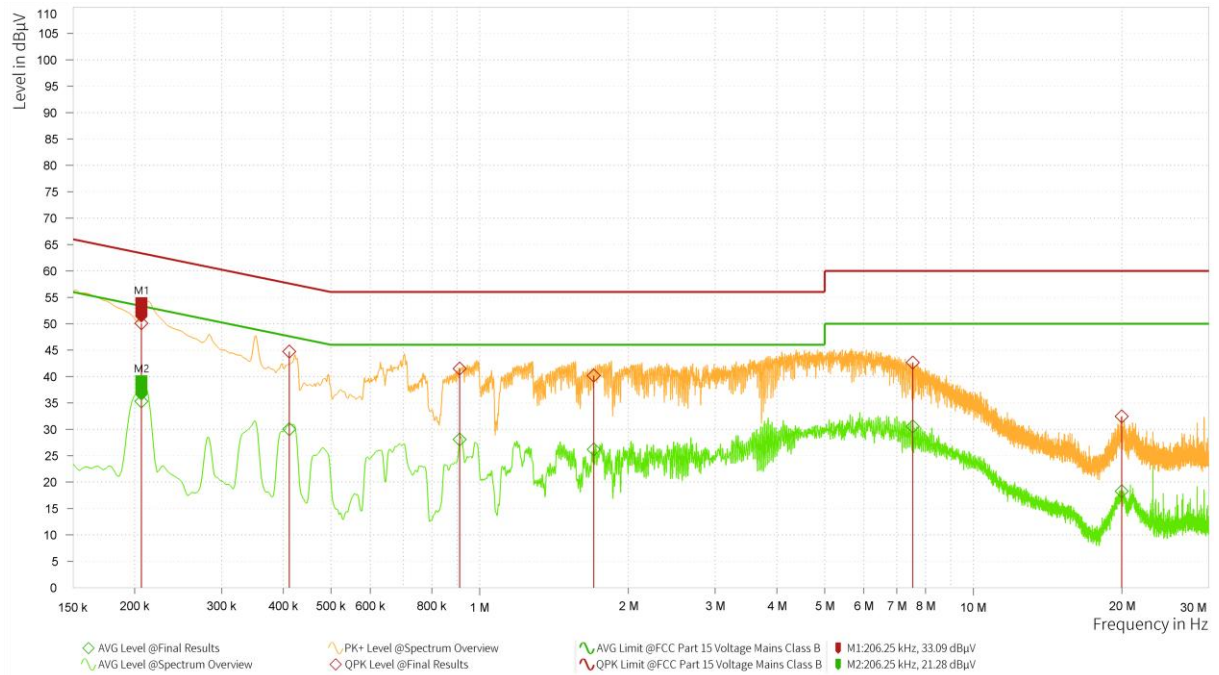
KR272



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]
0.188	51.15	64.11	12.96	37.11	54.11	17.00	21.02	L1	9.000	1.000
0.382	41.42	58.24	16.82	28.34	48.24	19.91	20.89	L1	9.000	1.000
0.683	40.53	56.00	15.47	28.06	46.00	17.94	20.59	L1	9.000	1.000
1.676	40.55	56.00	15.45	26.23	46.00	19.77	19.76	L1	9.000	1.000
5.300	41.31	60.00	18.69	30.40	50.00	19.60	19.40	L1	9.000	1.000
19.907	24.49	60.00	35.51	18.38	50.00	31.62	19.65	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

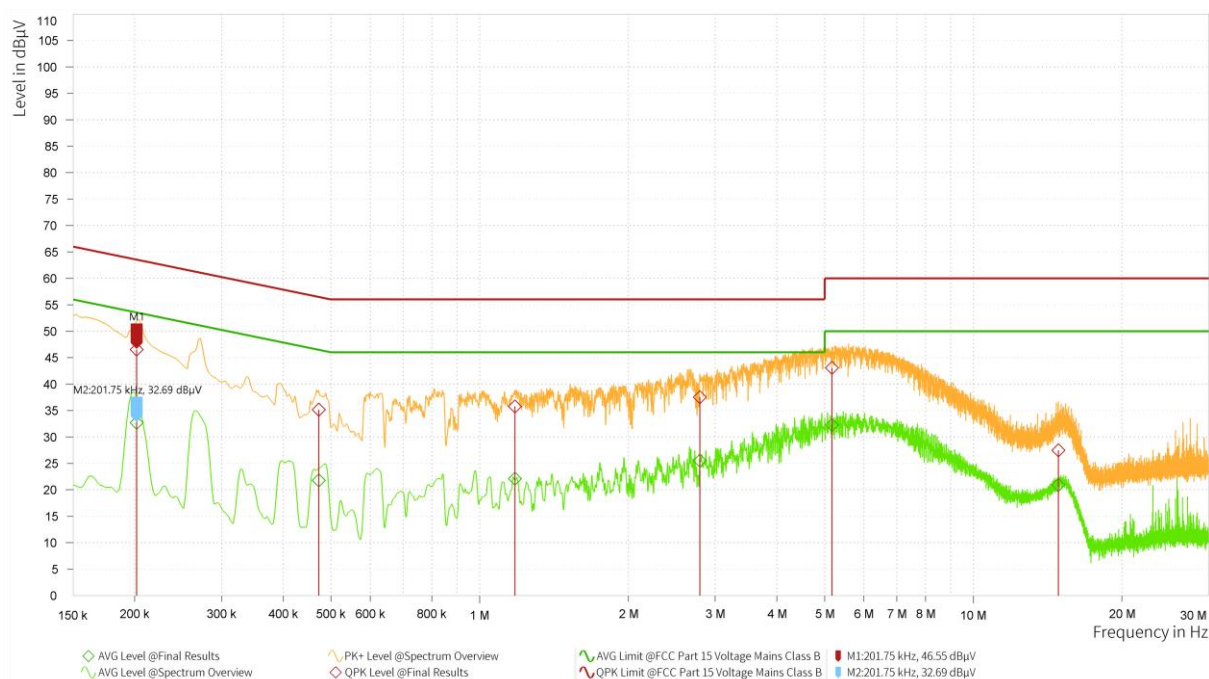


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.206	50.09	63.35	13.26	35.28	53.35	18.07	21.02	N	9.000	1.000
0.411	44.72	57.63	12.91	30.04	47.63	17.59	20.87	N	9.000	1.000
0.911	41.51	56.00	14.49	28.10	46.00	17.90	20.24	N	9.000	1.000
1.703	40.20	56.00	15.80	26.16	46.00	19.84	19.76	N	9.000	1.000
7.544	42.66	60.00	17.34	30.55	50.00	19.45	19.41	N	9.000	1.000
19.979	32.43	60.00	27.57	18.26	50.00	31.74	19.71	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

KR274

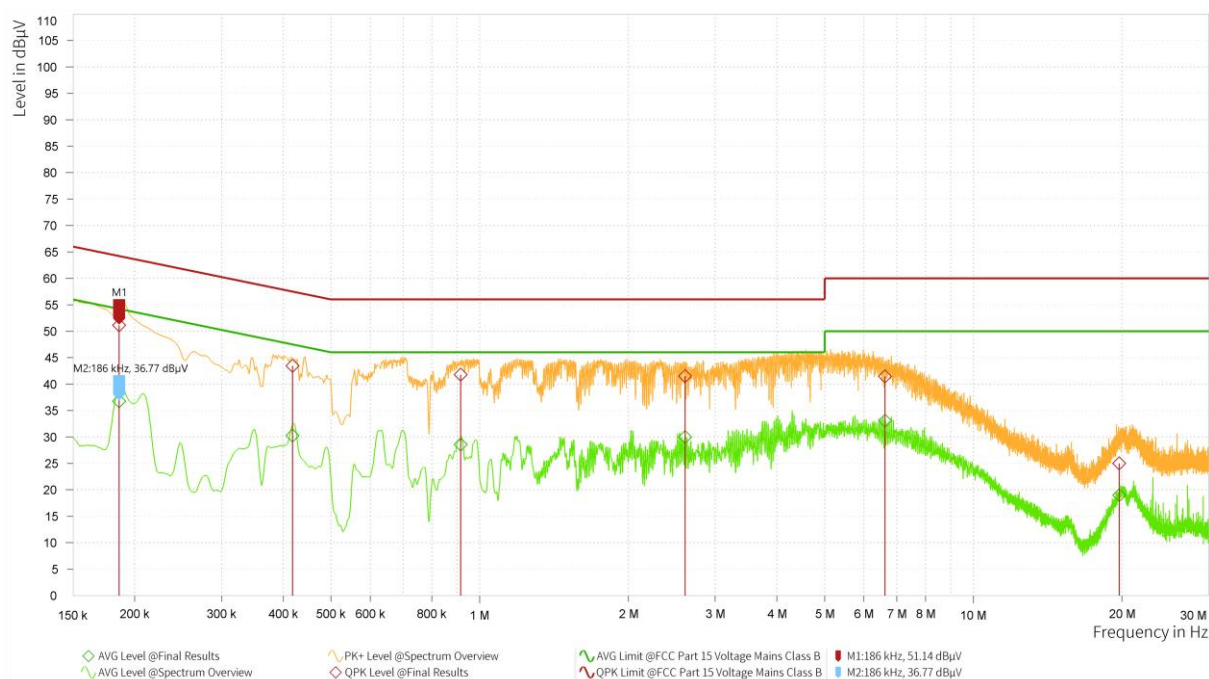


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.202	46.55	63.54	16.99	32.69	53.54	20.85	21.01	L1	9.000	1.000
0.472	35.16	56.48	21.33	21.78	46.48	24.70	20.81	L1	9.000	1.000
1.178	35.77	56.00	20.23	22.10	46.00	23.90	20.03	L1	9.000	1.000
2.792	37.54	56.00	18.46	25.53	46.00	20.47	19.51	L1	9.000	1.000
5.174	43.06	60.00	16.94	32.25	50.00	17.75	19.40	L1	9.000	1.000
14.867	27.44	60.00	32.56	20.93	50.00	29.07	19.50	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

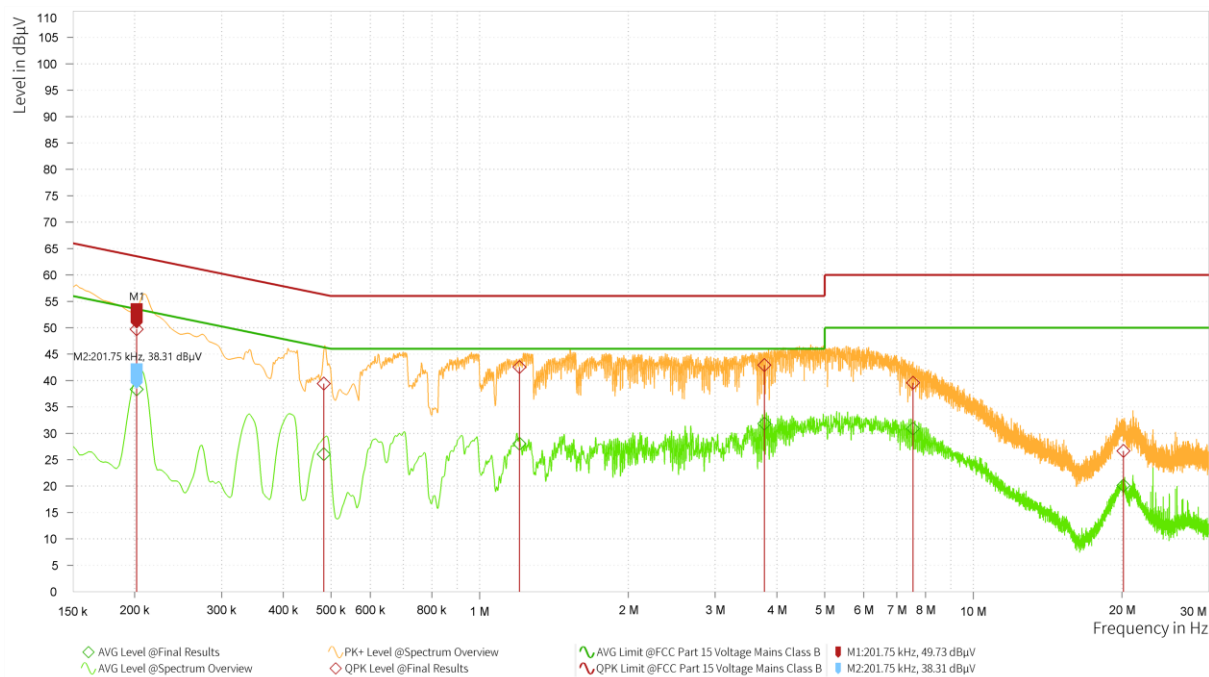
KR276



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]
0.186	51.14	64.21	13.07	36.77	54.21	17.44	21.02	L1	9.000	1.000
0.418	43.43	57.49	14.06	30.29	47.49	17.21	20.86	L1	9.000	1.000
0.915	41.78	56.00	14.22	28.55	46.00	17.45	20.23	L1	9.000	1.000
2.607	41.51	56.00	14.49	29.96	46.00	16.04	19.53	L1	9.000	1.000
6.623	41.44	60.00	18.56	33.05	50.00	16.95	19.41	L1	9.000	1.000
19.759	24.99	60.00	35.01	18.97	50.00	31.03	19.65	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]
0.202	49.73	63.54	13.80	38.31	53.54	15.23	21.02	N	9.000	1.000
0.483	39.43	56.29	16.86	26.02	46.29	20.27	20.80	N	9.000	1.000
1.203	42.56	56.00	13.44	28.01	46.00	17.99	20.02	N	9.000	1.000
3.775	42.94	56.00	13.06	31.85	46.00	14.15	19.45	N	9.000	1.000
7.546	39.54	60.00	20.46	30.90	50.00	19.10	19.41	N	9.000	1.000
20.155	26.66	60.00	33.34	20.09	50.00	29.91	19.71	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz