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 (Z axis) and the loop antenna is coplanar, the others are vertical and horizontal. and the worst case was recorded.

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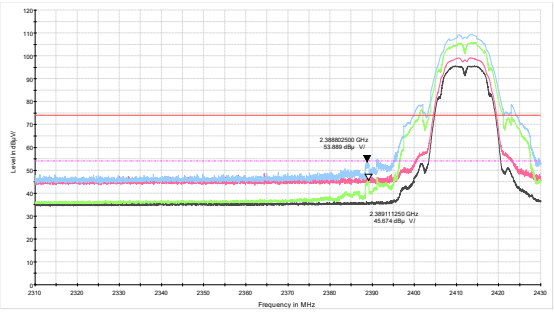
1. Unwanted Emission

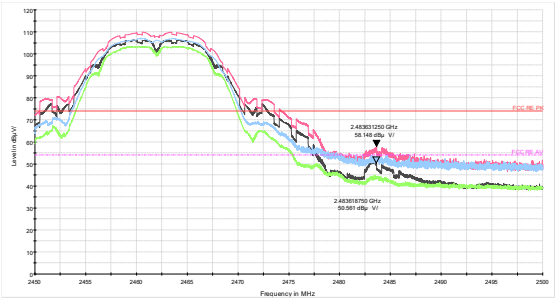
1.1. Wi-Fi 2.4GHz

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.

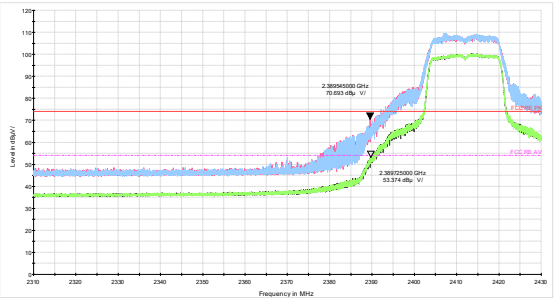
A symbol (dB礦/m) in the test plot below means (dBμV/m)
The signal beyond the limit is carrier.



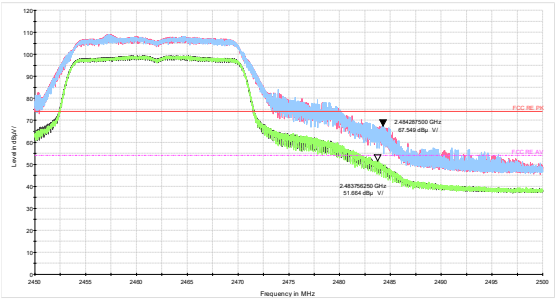
802.11b-Channel 1 Peak+ Average



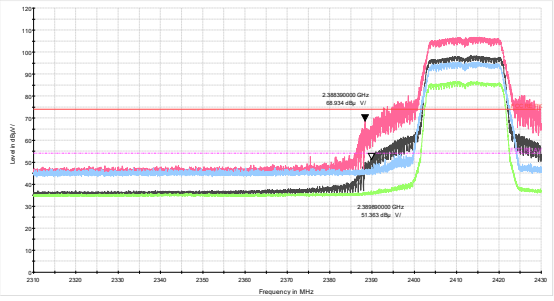
802.11b-Channel 11 Peak+ Average



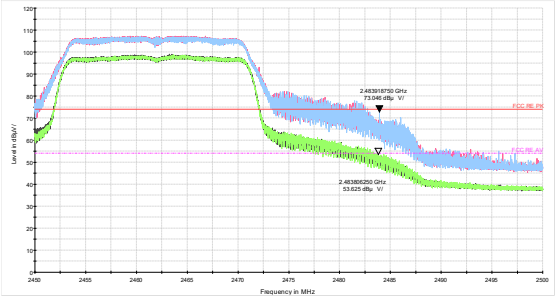
802.11g-Channel 1 Peak+ Average



802.11g-Channel 11 Peak+ Average



802.11n HT20-Channel 1 Peak+ Average



802.11n HT20-Channel 11 Peak+ Average

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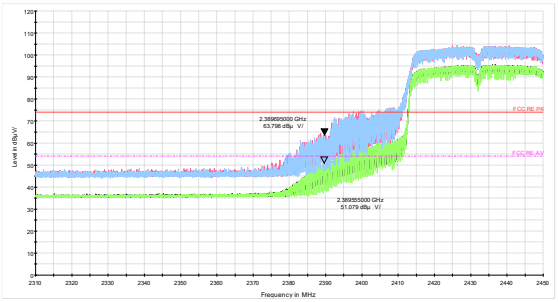
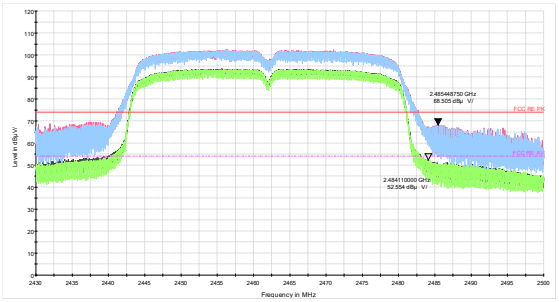
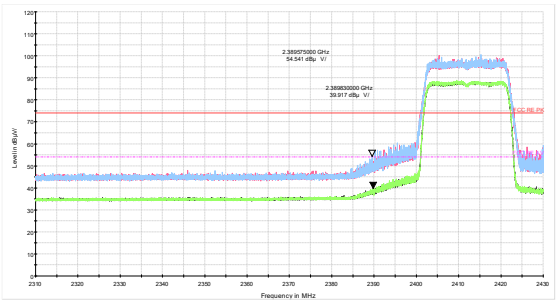
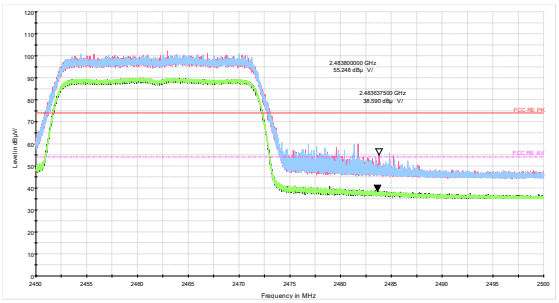
	
802.11n HT40-Channel 3 Peak+ Average	802.11n HT40–Channel 9 Peak+ Average
	
802.11ax HE20-Channel 1 Peak+ Average	802.11ax HE20-Channel 11 Peak+ Average

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Result of RE

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

Remark:

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

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

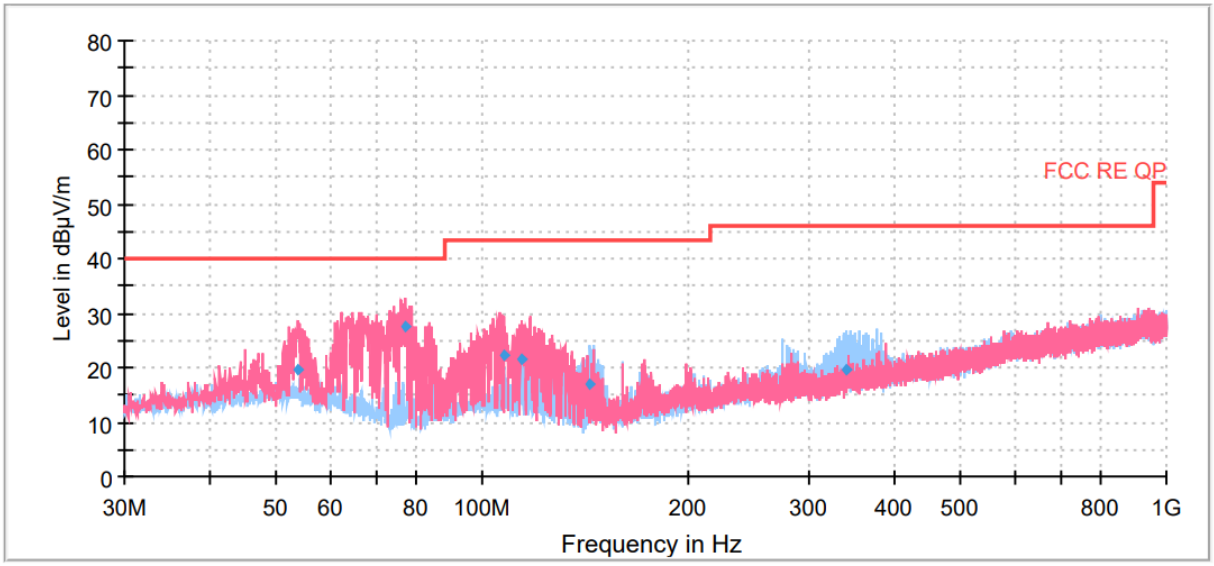
For above 1GHz

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:

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

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
53.67	19.52	40.00	20.48	1000.00	101.0	V	305.00	20
77.09	27.54	40.00	12.46	1000.00	119.0	V	266.00	15
107.60	22.24	43.50	21.26	1000.00	106.0	V	22.00	18
113.95	21.44	43.50	22.06	1000.00	100.0	V	186.00	18
143.98	17.12	43.50	26.38	1000.00	104.0	H	234.00	15
339.14	19.64	46.00	26.36	1000.00	101.0	H	356.00	22

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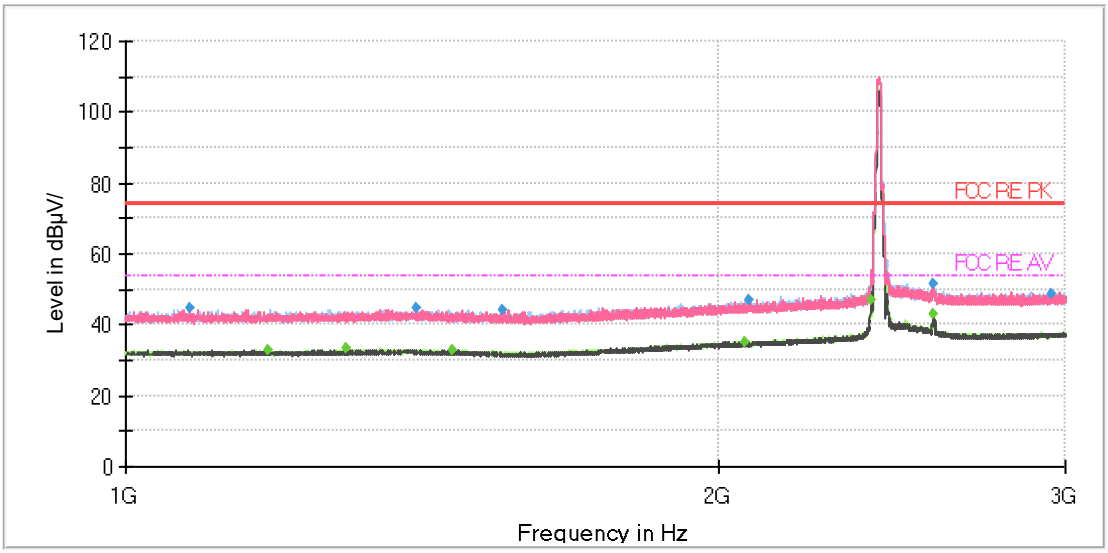
802.11b CH1



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)
1078.50	44.59	---	74.00	29.41	500.00	100.0	V	359.00	-5
1180.00	---	32.79	54.00	21.21	500.00	200.0	V	32.00	-5
1295.25	---	33.43	54.00	20.57	500.00	200.0	H	305.00	-5
1405.50	45.00	---	74.00	29.00	500.00	100.0	H	135.00	-4
1463.75	---	32.88	54.00	21.12	500.00	100.0	V	0.00	-4
1553.50	44.32	---	74.00	29.68	500.00	100.0	V	338.00	-4
2061.25	---	35.27	54.00	18.73	500.00	200.0	H	336.00	-3
2070.25	47.09	---	74.00	26.92	500.00	200.0	H	305.00	-3
2388.75	---	46.81	54.00	7.19	500.00	200.0	V	213.00	-1
2569.50	---	42.85	54.00	11.15	500.00	100.0	V	242.00	-1
2570.25	51.24	---	74.00	22.76	500.00	200.0	H	174.00	-1
2952.75	48.95	---	74.00	25.05	500.00	200.0	V	48.00	0

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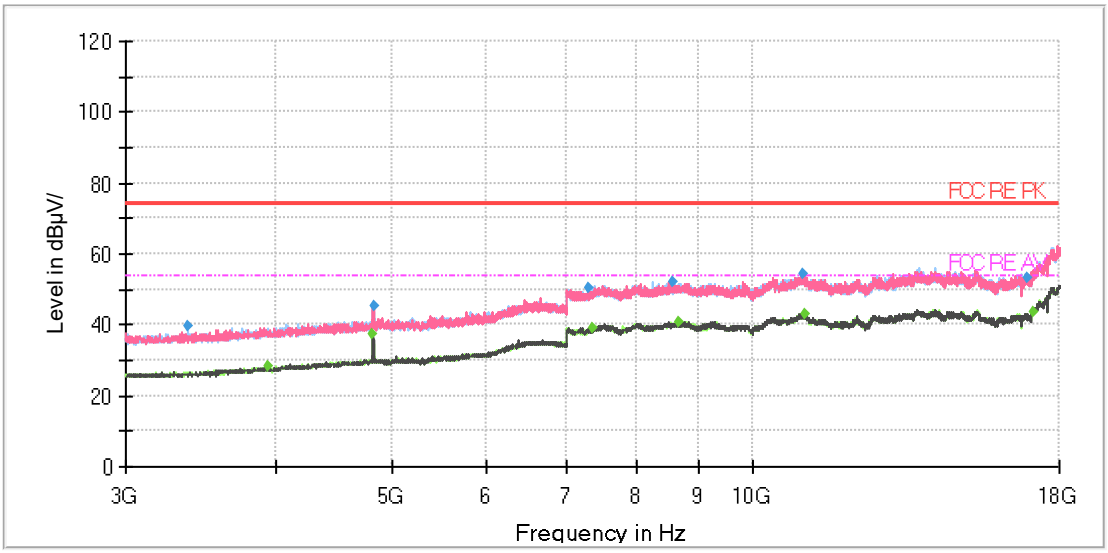

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3376.88	39.68	---	74.00	34.32	500.00	100.0	H	144.00	-10
3937.50	---	28.30	54.00	25.70	500.00	200.0	H	0.00	-8
4822.50	---	37.12	54.00	16.88	500.00	100.0	V	83.00	-7
4824.38	45.23	---	74.00	28.77	500.00	100.0	V	83.00	-7
7278.75	50.27	---	74.00	23.73	500.00	200.0	H	3.00	1
7348.13	---	38.95	54.00	15.05	500.00	100.0	V	16.00	1
8559.38	52.05	---	74.00	21.95	500.00	100.0	V	184.00	2
8664.38	---	40.82	54.00	13.18	500.00	200.0	H	3.00	2
10989.38	54.39	---	74.00	19.61	500.00	100.0	V	6.00	5
11038.13	---	43.30	54.00	10.70	500.00	100.0	H	218.00	5
16940.63	53.03	---	74.00	20.97	500.00	200.0	V	326.00	8
17115.00	---	43.73	54.00	10.27	500.00	100.0	H	296.00	9

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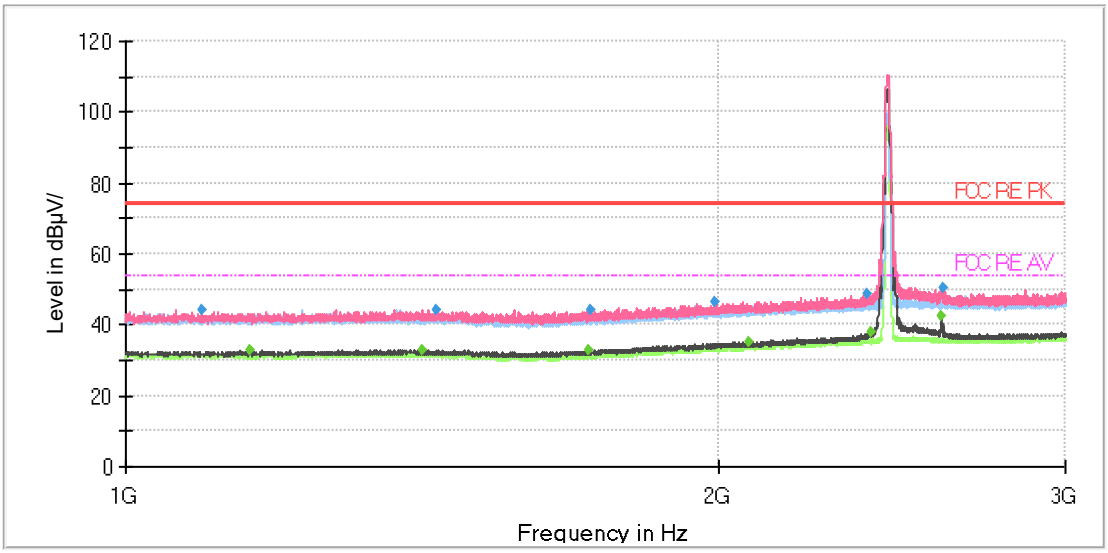
802.11b CH6



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)
1093.25	44.22	---	74.00	29.78	500.00	200.0	V	1.00	-5
1157.50	---	32.62	54.00	21.38	500.00	200.0	V	134.00	-5
1415.00	---	33.03	54.00	20.97	500.00	100.0	V	302.00	-4
1439.25	44.36	---	74.00	29.64	500.00	100.0	V	318.00	-4
1719.25	---	32.69	54.00	21.31	500.00	100.0	V	0.00	-4
1721.75	44.16	---	74.00	29.84	500.00	200.0	V	35.00	-4
1989.25	46.26	---	74.00	27.74	500.00	100.0	V	332.00	-3
2073.50	---	35.05	54.00	18.95	500.00	100.0	V	0.00	-3
2381.75	48.44	---	74.00	25.56	500.00	100.0	V	174.00	-1
2388.25	---	37.67	54.00	16.33	500.00	100.0	V	223.00	-1
2594.25	---	42.28	54.00	11.72	500.00	100.0	V	141.00	-1
2598.25	50.50	---	74.00	23.50	500.00	200.0	V	167.00	-1

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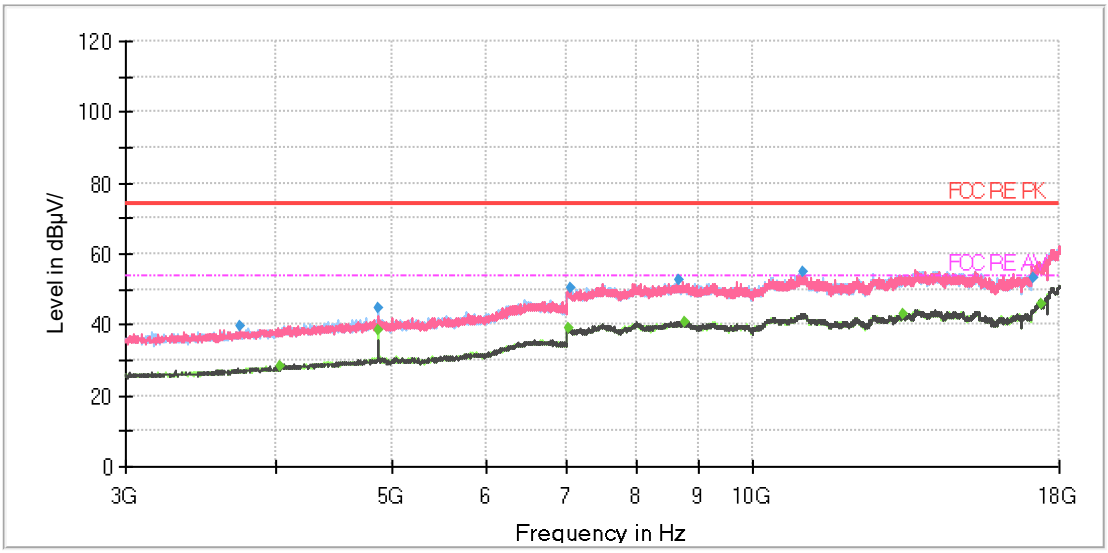

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3736.88	39.89	---	74.00	34.11	500.00	100.0	V	106.00	-9
4040.63	---	28.33	54.00	25.67	500.00	200.0	H	321.00	-8
4873.13	---	38.38	54.00	15.62	500.00	200.0	H	82.00	-6
4873.13	44.57	---	74.00	29.43	500.00	100.0	H	93.00	-6
7021.88	---	39.11	54.00	14.89	500.00	200.0	H	57.00	0
7053.75	50.58	---	74.00	23.42	500.00	100.0	V	0.00	0
8658.75	52.51	---	74.00	21.49	500.00	200.0	H	0.00	2
8754.38	---	40.95	54.00	13.05	500.00	100.0	V	160.00	2
11011.88	54.89	---	74.00	19.11	500.00	200.0	V	346.00	5
13336.88	---	43.11	54.00	10.89	500.00	200.0	H	215.00	7
17090.63	53.14	---	74.00	20.86	500.00	200.0	H	162.00	9
17415.00	---	45.77	54.00	8.23	500.00	100.0	H	302.00	11

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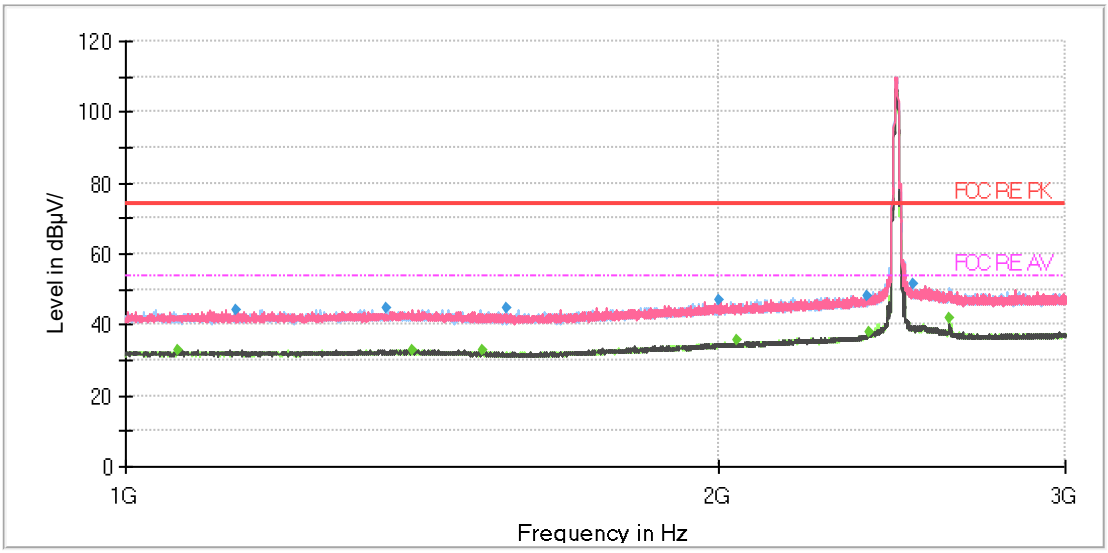
802.11b CH11



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)
1063.75	---	32.68	54.00	21.32	500.00	100.0	H	7.00	-5
1136.25	44.27	---	74.00	29.73	500.00	200.0	V	15.00	-5
1355.25	44.57	---	74.00	29.43	500.00	100.0	H	1.00	-4
1396.50	---	33.05	54.00	20.95	500.00	100.0	V	358.00	-4
1516.25	---	32.65	54.00	21.35	500.00	100.0	V	358.00	-4
1561.25	44.45	---	74.00	29.55	500.00	100.0	H	24.00	-4
1998.75	46.83	---	74.00	27.17	500.00	200.0	H	306.00	-3
2041.75	---	35.45	54.00	18.55	500.00	100.0	V	274.00	-3
2378.25	48.37	---	74.00	25.63	500.00	100.0	H	0.00	-1
2382.75	---	37.99	54.00	16.01	500.00	200.0	V	184.00	-1
2513.00	51.62	---	74.00	22.38	500.00	100.0	H	216.00	-1
2619.75	---	42.02	54.00	11.98	500.00	200.0	H	191.00	-1

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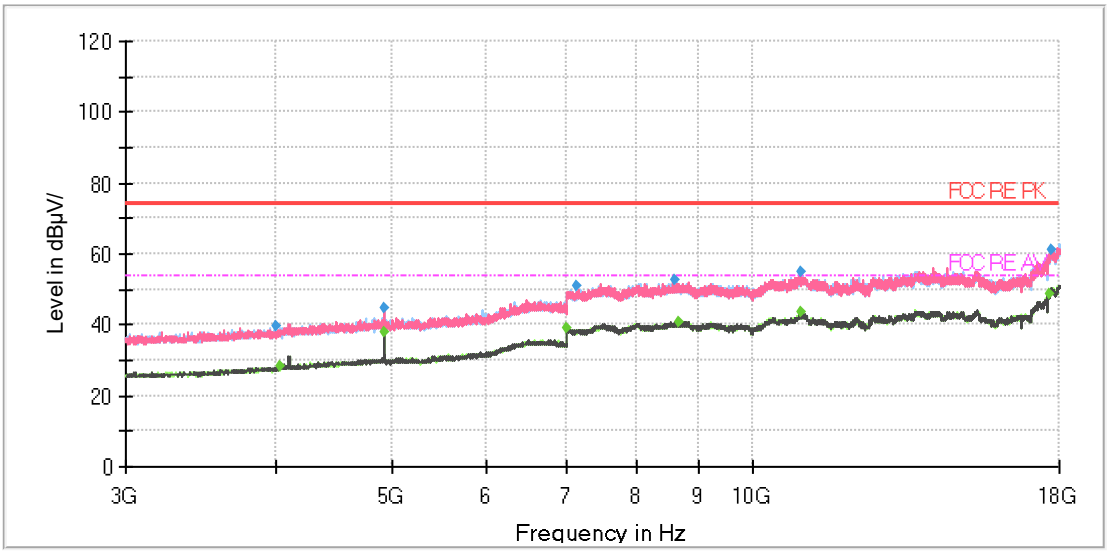

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3999.38	39.66	---	74.00	34.34	500.00	200.0	H	4.00	-8
4036.88	---	28.38	54.00	25.62	500.00	200.0	H	0.00	-8
4923.75	---	37.92	54.00	16.09	500.00	100.0	V	112.00	-6
4923.75	44.78	---	74.00	29.22	500.00	100.0	V	112.00	-6
7001.25	---	39.13	54.00	14.87	500.00	100.0	V	345.00	0
7130.63	50.72	---	74.00	23.28	500.00	100.0	H	330.00	0
8587.50	52.69	---	74.00	21.31	500.00	100.0	H	359.00	2
8662.50	---	41.02	54.00	12.98	500.00	100.0	H	199.00	2
10966.88	54.64	---	74.00	19.36	500.00	200.0	H	211.00	5
10974.38	---	43.33	54.00	10.67	500.00	200.0	H	1.00	5
17673.75	---	48.73	54.00	5.27	500.00	200.0	H	211.00	12
17726.25	61.01	---	74.00	12.99	500.00	100.0	V	0.00	13

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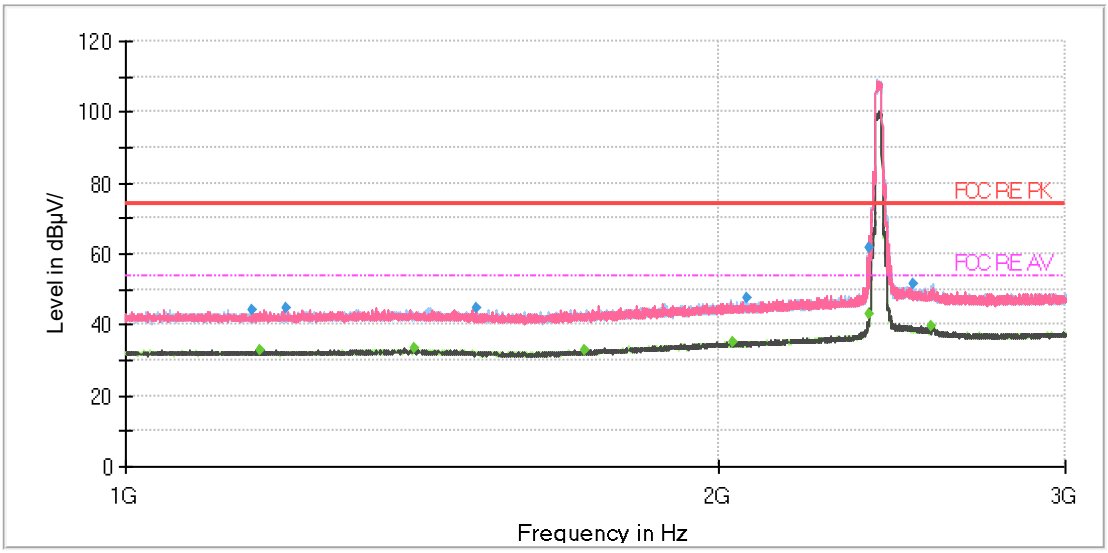
802.11g CH1



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)
1160.25	44.39	---	74.00	29.61	500.00	100.0	V	356.00	-5
1171.00	---	32.91	54.00	21.09	500.00	200.0	H	202.00	-5
1205.50	44.85	---	74.00	29.15	500.00	100.0	H	53.00	-5
1400.50	---	33.26	54.00	20.74	500.00	200.0	H	0.00	-4
1506.75	44.59	---	74.00	29.41	500.00	100.0	H	0.00	-4
1710.75	---	32.93	54.00	21.07	500.00	200.0	V	5.00	-4
2033.50	---	35.23	54.00	18.77	500.00	100.0	V	308.00	-3
2065.50	47.40	---	74.00	26.60	500.00	200.0	H	0.00	-3
2383.25	61.79	---	74.00	12.21	500.00	200.0	V	209.00	-1
2385.00	---	42.99	54.00	11.01	500.00	100.0	V	192.00	-1
2509.25	51.46	---	74.00	22.54	500.00	100.0	H	201.00	-1
2564.50	---	39.90	54.00	14.10	500.00	100.0	H	219.00	-1

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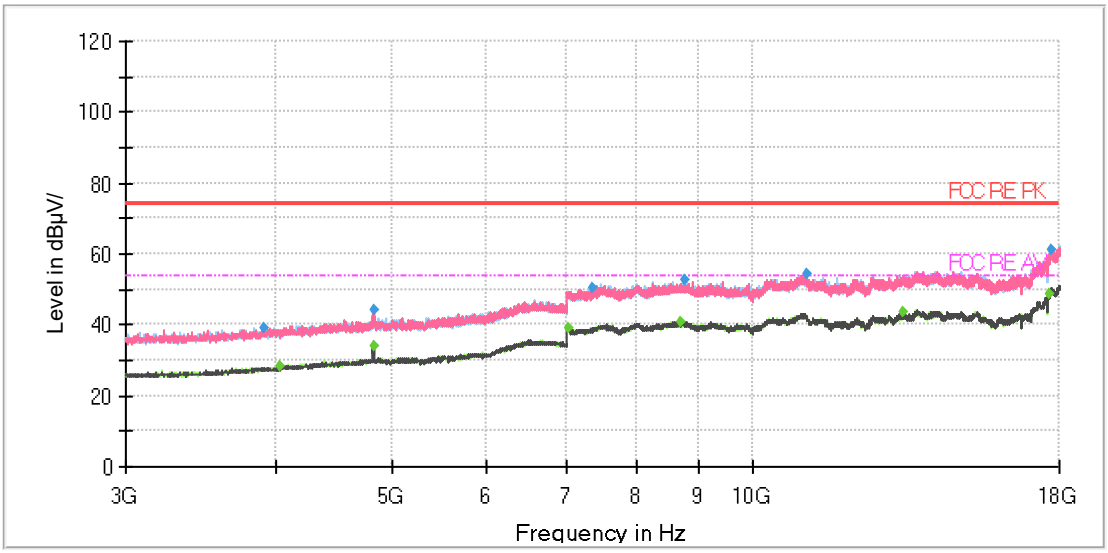

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3909.38	39.30	---	74.00	34.70	500.00	100.0	V	67.00	-9
4040.63	---	28.32	54.00	25.68	500.00	200.0	V	0.00	-8
4824.38	44.12	---	74.00	29.88	500.00	200.0	H	83.00	-7
4824.38	---	33.97	54.00	20.04	500.00	200.0	H	83.00	-7
7005.00	---	38.98	54.00	15.02	500.00	100.0	V	119.00	0
7336.88	50.25	---	74.00	23.75	500.00	200.0	H	259.00	1
8718.75	---	40.92	54.00	13.08	500.00	100.0	H	161.00	2
8756.25	52.60	---	74.00	21.40	500.00	100.0	V	0.00	2
11073.75	54.13	---	74.00	19.87	500.00	200.0	H	324.00	5
13340.63	---	43.45	54.00	10.55	500.00	100.0	H	336.00	7
17655.00	---	48.72	54.00	5.28	500.00	200.0	H	5.00	12
17698.13	60.89	---	74.00	13.11	500.00	100.0	V	0.00	13

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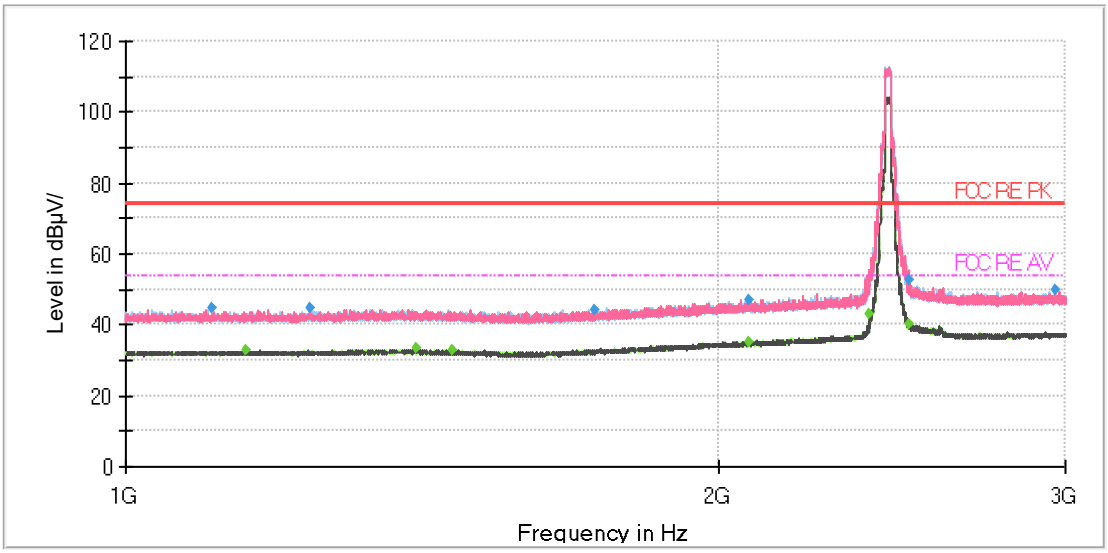
802.11g CH6



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)
1105.75	44.45	---	74.00	29.55	500.00	100.0	H	0.00	-5
1150.25	---	32.71	54.00	21.29	500.00	100.0	V	355.00	-5
1240.50	44.51	---	74.00	29.49	500.00	200.0	H	347.00	-5
1405.75	---	33.29	54.00	20.71	500.00	100.0	V	358.00	-4
1464.00	---	32.85	54.00	21.15	500.00	100.0	H	17.00	-4
1728.50	44.10	---	74.00	29.90	500.00	200.0	V	74.00	-4
2070.50	---	35.25	54.00	18.75	500.00	200.0	V	5.00	-3
2073.75	47.04	---	74.00	26.96	500.00	200.0	V	123.00	-3
2387.25	---	42.94	54.00	11.06	500.00	100.0	V	190.00	-1
2499.25	---	40.12	54.00	13.88	500.00	200.0	H	195.00	-1
2499.50	52.52	---	74.00	21.48	500.00	100.0	H	204.00	-1
2961.75	49.98	---	74.00	24.02	500.00	200.0	V	0.00	0

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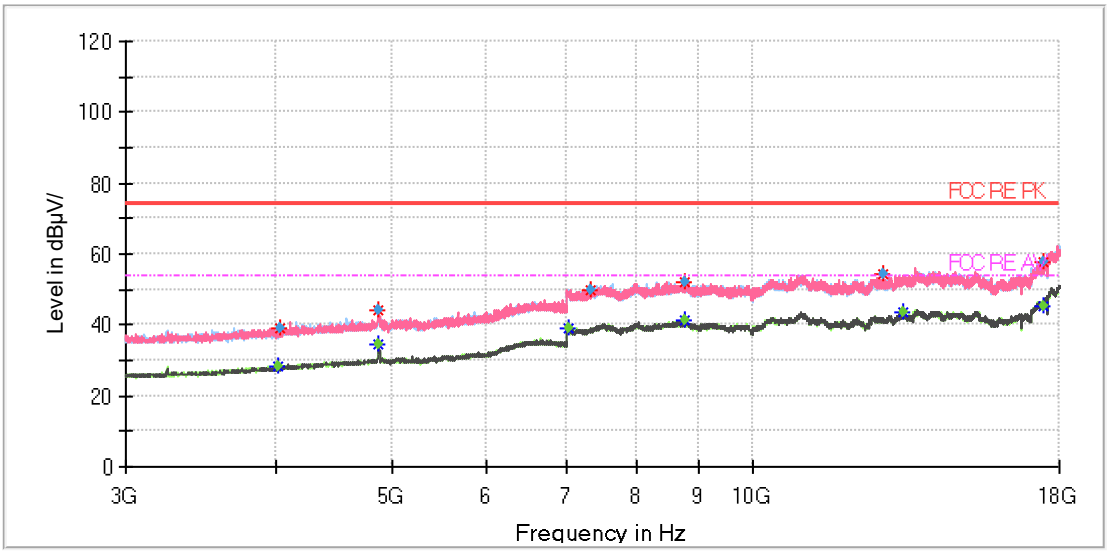

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4012.50	---	28.20	54.00	25.80	500.00	100.0	H	338.00	-8
4038.75	39.22	---	74.00	34.78	500.00	200.0	H	1.00	-8
4873.13	44.40	---	74.00	29.60	500.00	100.0	H	112.00	-6
4873.13	---	34.49	54.00	19.51	500.00	200.0	V	113.00	-6
7018.13	---	39.00	54.00	15.00	500.00	100.0	V	192.00	0
7333.13	50.01	---	74.00	23.99	500.00	100.0	V	217.00	1
8754.38	---	41.04	54.00	12.96	500.00	100.0	H	89.00	2
8758.13	52.08	---	74.00	21.92	500.00	200.0	V	290.00	2
12836.25	54.18	---	74.00	19.82	500.00	200.0	H	321.00	6
13338.75	---	43.40	54.00	10.60	500.00	200.0	H	246.00	7
17456.25	---	45.43	54.00	8.57	500.00	200.0	H	54.00	11
17473.13	57.55	---	74.00	16.45	500.00	200.0	V	192.00	11

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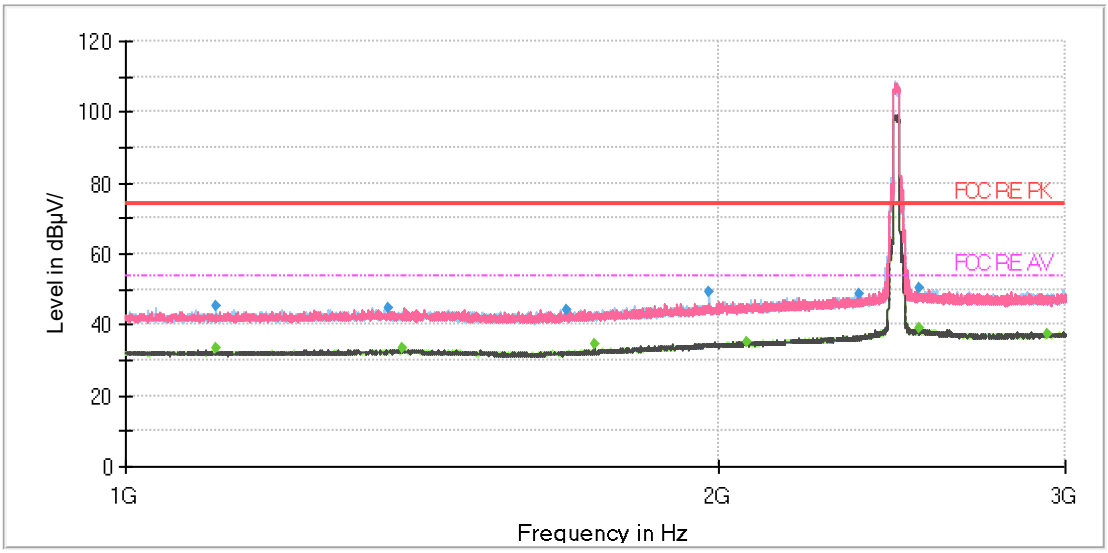
802.11g CH11



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)
1111.00	45.09	---	74.00	28.91	500.00	100.0	H	3.00	-5
1112.25	---	33.62	54.00	20.38	500.00	100.0	H	3.00	-5
1359.25	44.93	---	74.00	29.07	500.00	200.0	H	337.00	-4
1383.00	---	33.13	54.00	20.87	500.00	100.0	V	358.00	-4
1673.75	44.29	---	74.00	29.71	500.00	100.0	V	286.00	-4
1728.75	---	34.54	54.00	19.46	500.00	100.0	V	97.00	-4
1979.25	49.03	---	74.00	24.97	500.00	200.0	H	359.00	-3
2065.75	---	35.33	54.00	18.67	500.00	200.0	H	357.00	-3
2359.00	48.76	---	74.00	25.24	500.00	100.0	V	358.00	-1
2526.25	50.12	---	74.00	23.88	500.00	200.0	H	192.00	-1
2529.50	---	38.95	54.00	15.05	500.00	100.0	H	233.00	-1
2937.75	---	37.61	54.00	16.39	500.00	100.0	H	0.00	0

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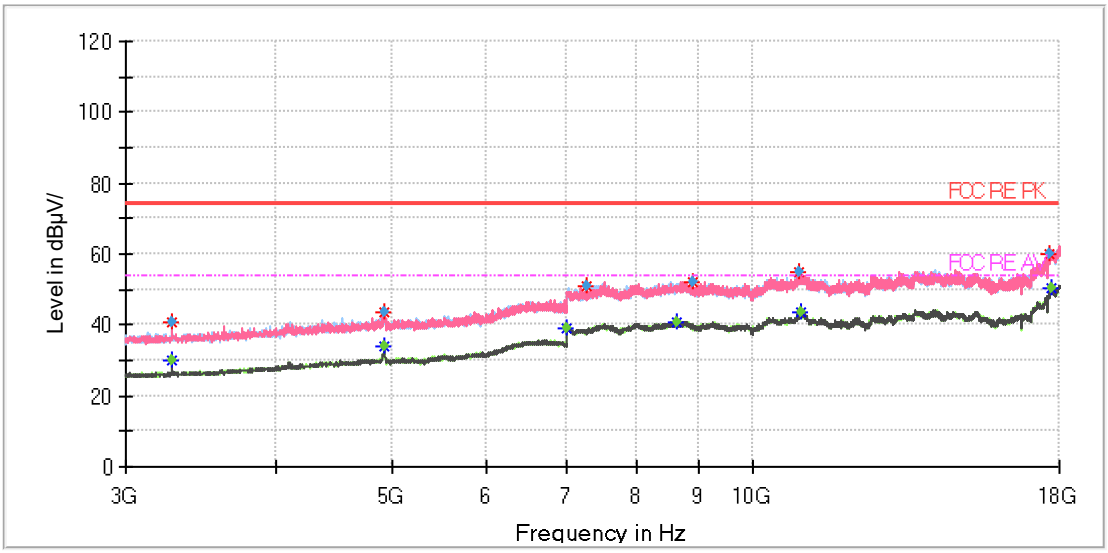

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.25	---	30.02	54.00	23.98	500.00	200.0	H	106.00	-10
3281.25	41.00	---	74.00	33.00	500.00	200.0	H	106.00	-10
4921.88	43.77	---	74.00	30.23	500.00	200.0	V	114.00	-6
4923.75	---	34.03	54.00	19.97	500.00	100.0	V	119.00	-6
7001.25	---	39.16	54.00	14.84	500.00	100.0	V	358.00	0
7256.25	50.69	---	74.00	23.31	500.00	200.0	H	0.00	1
8628.75	---	41.01	54.00	12.99	500.00	200.0	H	82.00	2
8921.25	52.28	---	74.00	21.72	500.00	100.0	V	0.00	2
10936.88	55.05	---	74.00	18.95	500.00	100.0	H	292.00	5
10980.00	---	43.60	54.00	10.40	500.00	200.0	V	0.00	5
17653.13	60.04	---	74.00	13.96	500.00	200.0	H	34.00	12
17739.38	---	50.13	54.00	3.87	500.00	100.0	V	170.00	13

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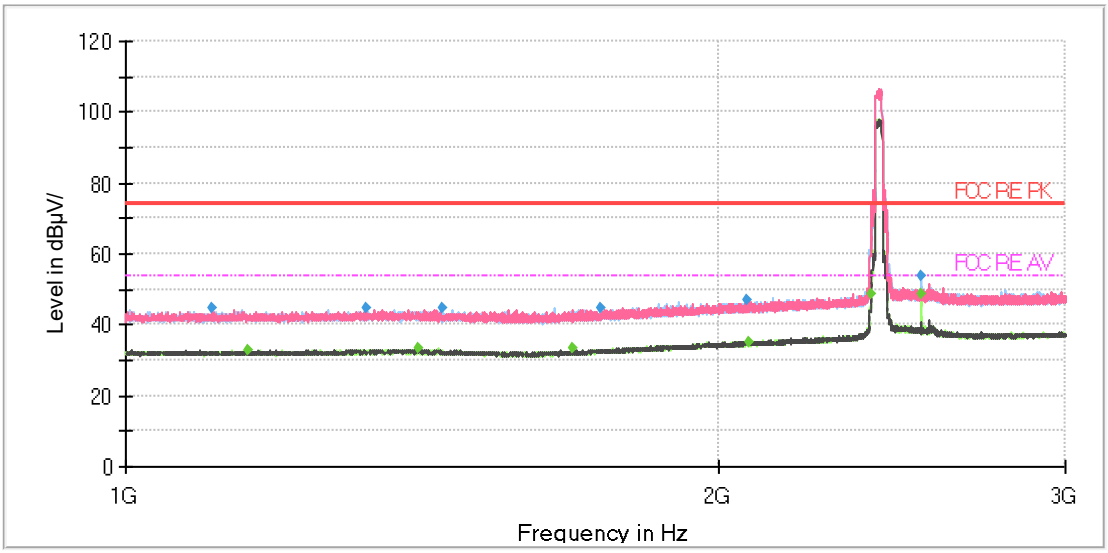
802.11n (HT20) CH1



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)
1106.25	44.55	---	74.00	29.45	500.00	100.0	H	0.00	-5
1154.25	---	33.07	54.00	20.93	500.00	200.0	V	84.00	-5
1325.25	44.93	---	74.00	29.07	500.00	100.0	V	353.00	-4
1409.00	---	33.37	54.00	20.63	500.00	200.0	V	0.00	-4
1447.75	45.00	---	74.00	29.00	500.00	100.0	H	6.00	-4
1687.75	---	33.40	54.00	20.60	500.00	100.0	V	276.00	-4
1743.00	44.86	---	74.00	29.14	500.00	200.0	H	338.00	-4
2065.00	46.84	---	74.00	27.16	500.00	200.0	V	0.00	-3
2073.25	---	35.18	54.00	18.82	500.00	100.0	V	347.00	-3
2388.25	---	48.55	54.00	5.45	500.00	100.0	H	231.00	-1
2534.00	---	48.50	54.00	5.50	500.00	200.0	H	277.00	-1
2534.00	54.02	---	74.00	19.98	500.00	200.0	H	277.00	-1

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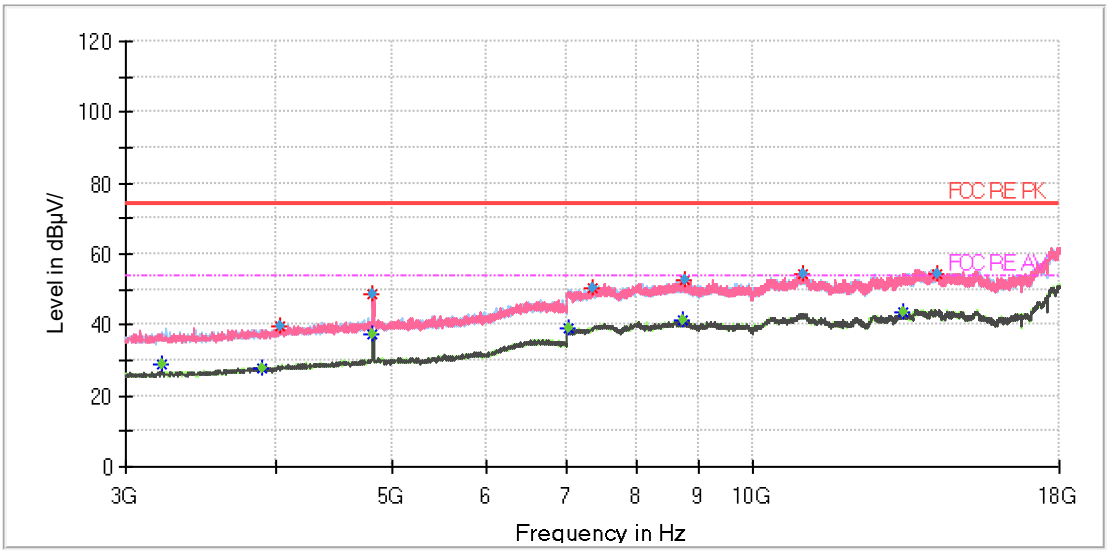

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3215.63	---	28.89	54.00	25.11	500.00	200.0	V	139.00	-10
3894.38	---	27.80	54.00	26.20	500.00	200.0	H	22.00	-9
4031.25	39.71	---	74.00	34.29	500.00	200.0	H	119.00	-8
4822.50	48.83	---	74.00	25.17	500.00	100.0	V	222.00	-7
4822.50	---	37.31	54.00	16.69	500.00	100.0	V	222.00	-7
7029.38	---	39.15	54.00	14.85	500.00	200.0	H	324.00	0
7342.50	50.10	---	74.00	23.90	500.00	200.0	H	9.00	1
8724.38	---	41.24	54.00	12.76	500.00	100.0	V	196.00	2
8761.88	52.90	---	74.00	21.10	500.00	100.0	H	263.00	2
11000.63	54.57	---	74.00	19.43	500.00	100.0	H	348.00	5
13344.38	---	43.38	54.00	10.62	500.00	200.0	H	94.00	7
14214.38	54.49	---	74.00	19.51	500.00	200.0	V	340.00	9

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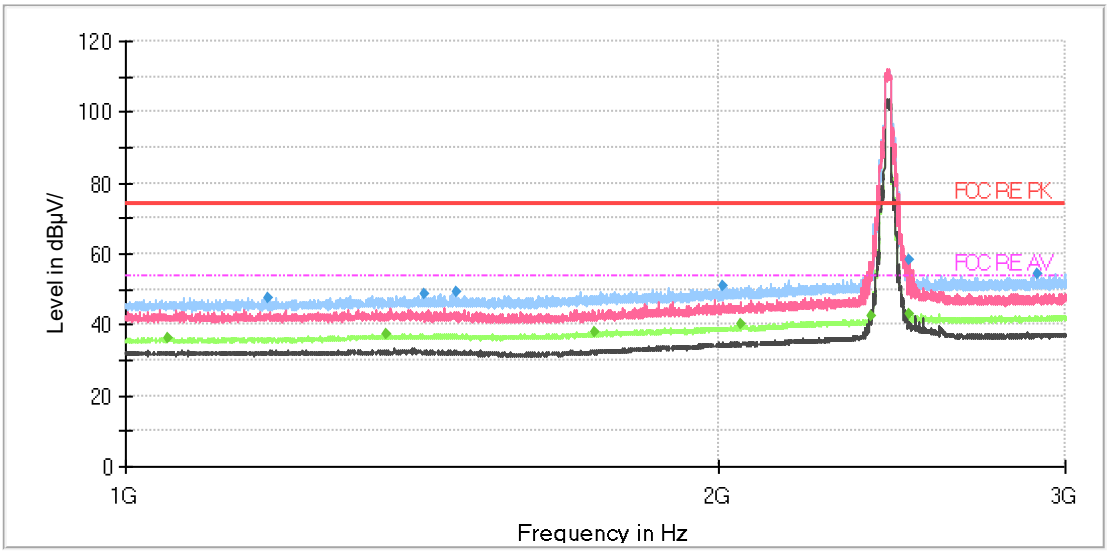
802.11n (HT20) CH6



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)
1051.00	---	36.49	54.00	17.51	500.00	200.0	H	359.00	-5
1181.50	47.77	---	74.00	26.23	500.00	200.0	H	359.00	-5
1355.75	---	37.43	54.00	16.57	500.00	200.0	H	359.00	-4
1418.00	48.48	---	74.00	25.52	500.00	200.0	H	311.00	-4
1470.25	49.29	---	74.00	24.71	500.00	200.0	H	349.00	-4
1728.75	---	37.78	54.00	16.22	500.00	200.0	H	0.00	-4
2010.00	51.14	---	74.00	22.86	500.00	200.0	H	340.00	-3
2055.00	---	39.93	54.00	14.07	500.00	200.0	H	359.00	-3
2389.50	---	42.64	54.00	11.36	500.00	100.0	H	234.00	-1
2499.75	---	42.99	54.00	11.01	500.00	200.0	H	295.00	-1
2500.50	58.22	---	74.00	15.78	500.00	200.0	V	218.00	-1
2904.50	54.18	---	74.00	19.82	500.00	200.0	H	340.00	0

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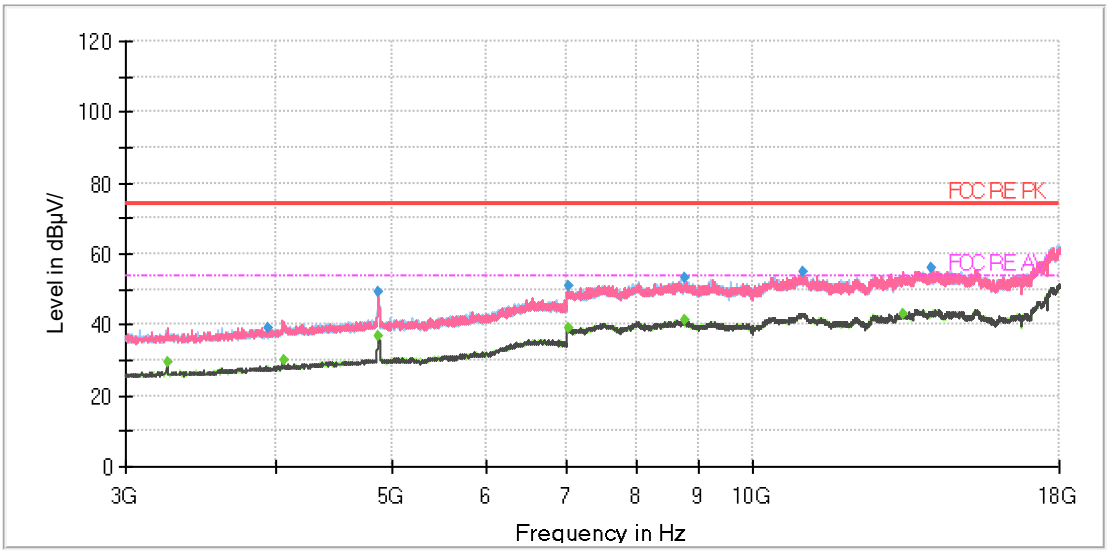

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3247.50	---	29.37	54.00	24.63	500.00	200.0	V	38.00	-10
3946.88	39.19	---	74.00	34.81	500.00	100.0	H	270.00	-8
4061.25	---	29.97	54.00	24.03	500.00	100.0	H	296.00	-8
4873.13	49.22	---	74.00	24.78	500.00	200.0	V	241.00	-6
4873.13	---	37.07	54.00	16.93	500.00	100.0	H	243.00	-6
7008.75	---	39.17	54.00	14.83	500.00	200.0	V	14.00	0
7018.13	50.73	---	74.00	23.27	500.00	100.0	H	340.00	0
8771.25	53.23	---	74.00	20.77	500.00	100.0	H	38.00	2
8786.25	---	41.20	54.00	12.80	500.00	100.0	H	270.00	2
11015.63	54.97	---	74.00	19.03	500.00	100.0	V	15.00	5
13350.00	---	43.27	54.00	10.73	500.00	200.0	V	339.00	7
14088.75	56.32	---	74.00	17.68	500.00	200.0	V	0.00	9

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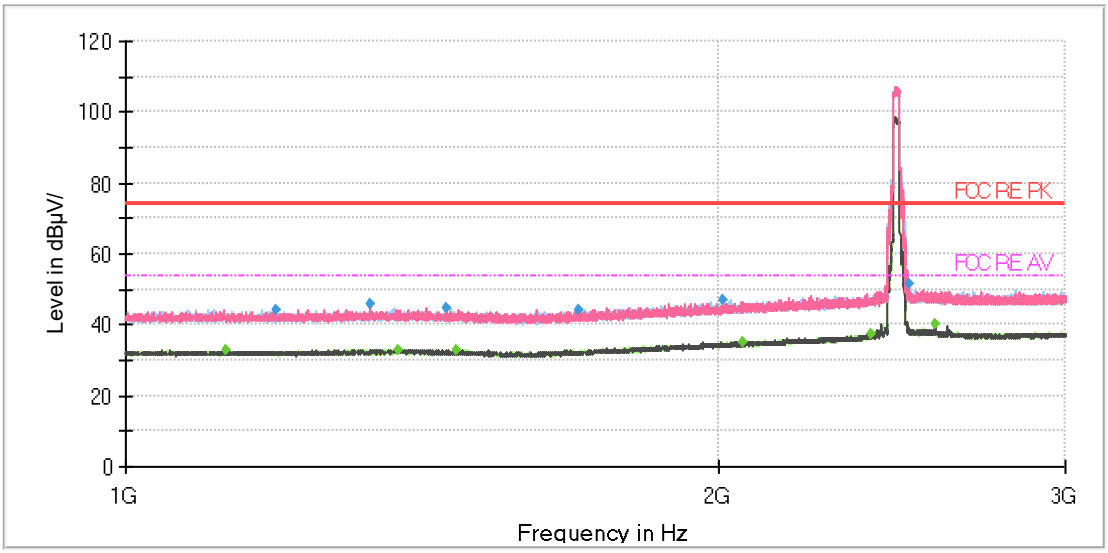
802.11n (HT20) CH11



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)
1124.00	---	32.80	54.00	21.20	500.00	200.0	V	7.00	-5
1192.75	44.33	---	74.00	29.67	500.00	100.0	V	177.00	-5
1329.50	45.65	---	74.00	28.35	500.00	200.0	V	231.00	-4
1374.00	---	33.07	54.00	20.93	500.00	200.0	H	358.00	-4
1456.00	44.55	---	74.00	29.45	500.00	100.0	V	357.00	-4
1470.25	---	33.00	54.00	21.00	500.00	100.0	H	0.00	-4
1696.75	44.02	---	74.00	29.98	500.00	100.0	H	0.00	-4
2011.25	46.90	---	74.00	27.10	500.00	100.0	H	66.00	-3
2058.75	---	35.29	54.00	18.71	500.00	200.0	V	149.00	-3
2387.50	---	37.15	54.00	16.85	500.00	100.0	V	211.00	-1
2500.50	51.56	---	74.00	22.44	500.00	100.0	V	211.00	-1
2573.50	---	40.38	54.00	13.62	500.00	200.0	V	351.00	-1

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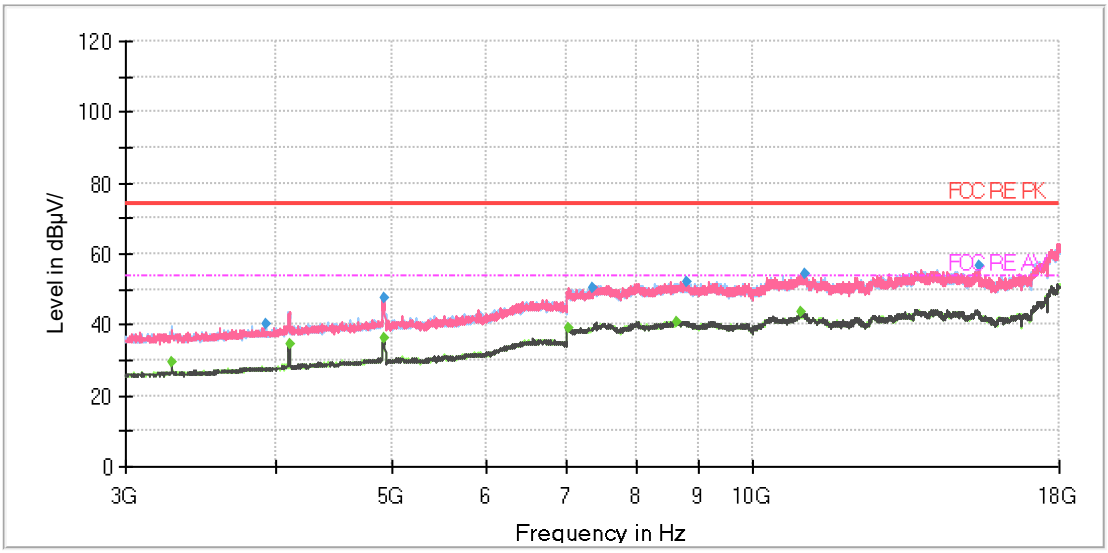

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.25	---	29.68	54.00	24.32	500.00	200.0	H	43.00	-10
3931.88	40.16	---	74.00	33.84	500.00	100.0	H	252.00	-8
4106.25	---	34.37	54.00	19.63	500.00	200.0	V	293.00	-8
4923.75	---	36.45	54.00	17.55	500.00	200.0	H	43.00	-6
4923.75	47.74	---	74.00	26.26	500.00	100.0	H	35.00	-6
7012.50	---	39.22	54.00	14.78	500.00	100.0	H	252.00	0
7342.50	50.31	---	74.00	23.69	500.00	100.0	H	358.00	1
8623.13	---	41.03	54.00	12.97	500.00	200.0	V	268.00	2
8793.75	51.94	---	74.00	22.06	500.00	200.0	H	9.00	2
10970.63	---	43.37	54.00	10.63	500.00	100.0	H	252.00	5
11034.38	54.58	---	74.00	19.42	500.00	200.0	H	143.00	5
15418.13	56.37	---	74.00	17.63	500.00	100.0	V	146.00	8

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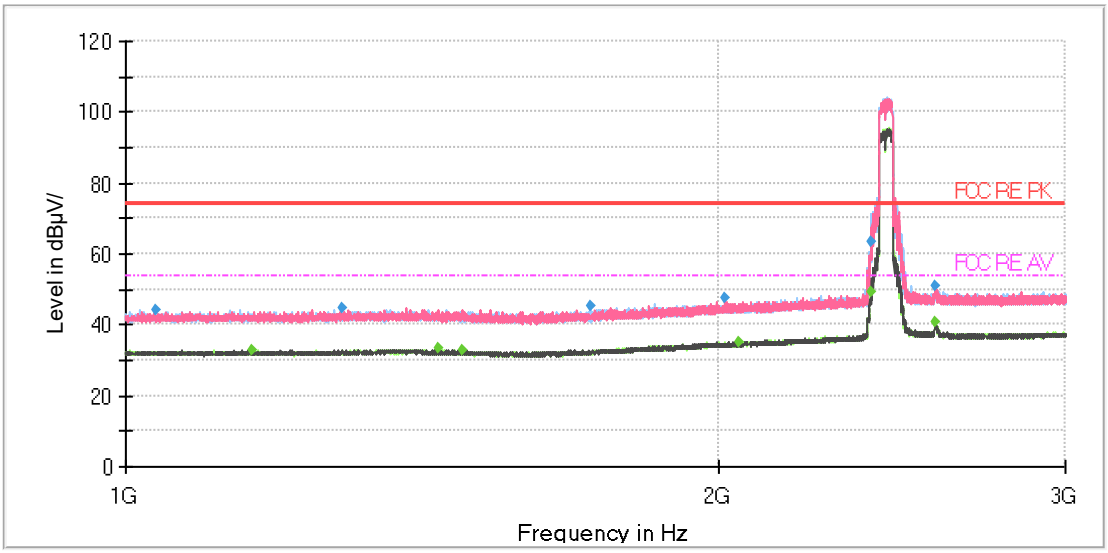
802.11n (HT40) CH3



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)
1035.25	44.30	---	74.00	29.70	500.00	100.0	H	1.00	-5
1159.75	---	32.81	54.00	21.19	500.00	100.0	V	0.00	-5
1289.00	44.57	---	74.00	29.43	500.00	200.0	H	312.00	-5
1439.75	---	33.20	54.00	20.80	500.00	200.0	H	312.00	-4
1483.50	---	32.98	54.00	21.02	500.00	200.0	V	1.00	-4
1721.50	45.06	---	74.00	28.94	500.00	200.0	H	245.00	-4
2014.75	47.41	---	74.00	26.59	500.00	200.0	V	2.00	-3
2045.50	---	35.17	54.00	18.83	500.00	100.0	V	0.00	-3
2388.25	63.63	---	74.00	10.37	500.00	200.0	V	226.00	-1
2388.75	---	49.39	54.00	4.61	500.00	200.0	H	211.00	-1
2575.50	---	41.03	54.00	12.97	500.00	200.0	V	226.00	-1
2575.75	51.02	---	74.00	22.98	500.00	100.0	H	232.00	-1

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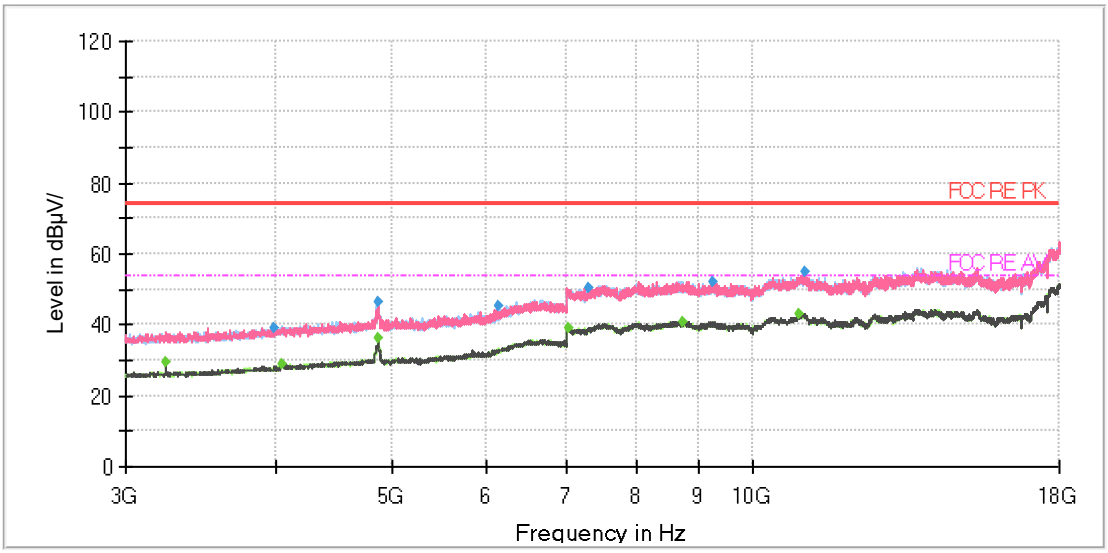

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3241.88	---	29.43	54.00	24.57	500.00	200.0	V	298.00	-10
3993.75	39.13	---	74.00	34.87	500.00	200.0	V	342.00	-8
4044.38	---	29.12	54.00	24.88	500.00	200.0	V	0.00	-8
4863.75	---	36.29	54.00	17.71	500.00	100.0	H	221.00	-6
4863.75	46.27	---	74.00	27.73	500.00	100.0	V	223.00	-6
6138.75	45.00	---	74.00	29.00	500.00	200.0	H	197.00	-3
7006.88	---	39.14	54.00	14.86	500.00	100.0	H	295.00	0
7305.00	50.52	---	74.00	23.48	500.00	200.0	H	24.00	1
8724.38	---	41.03	54.00	12.97	500.00	100.0	H	339.00	2
9264.38	52.29	---	74.00	21.71	500.00	100.0	V	0.00	2
10933.13	---	43.14	54.00	10.86	500.00	200.0	H	172.00	5
11040.00	55.17	---	74.00	18.83	500.00	100.0	H	351.00	5

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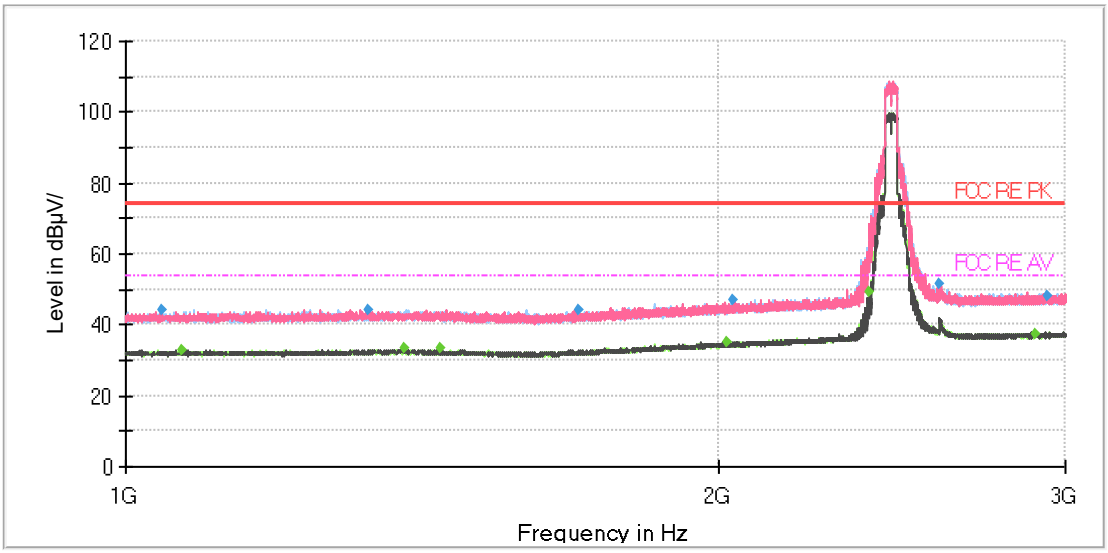
802.11n (HT40) CH6



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)
1043.25	44.14	---	74.00	29.86	500.00	100.0	H	0.00	-5
1068.25	---	32.97	54.00	21.03	500.00	200.0	H	273.00	-5
1327.50	44.42	---	74.00	29.58	500.00	100.0	H	0.00	-4
1383.75	---	33.18	54.00	20.82	500.00	100.0	H	214.00	-4
1444.75	---	33.27	54.00	20.73	500.00	100.0	H	163.00	-4
1697.00	44.22	---	74.00	29.78	500.00	100.0	H	21.00	-4
2019.50	---	35.25	54.00	18.75	500.00	200.0	V	232.00	-3
2035.00	46.77	---	74.00	27.23	500.00	100.0	V	348.00	-3
2385.00	---	49.50	54.00	4.50	500.00	100.0	H	231.00	-1
2591.25	51.75	---	74.00	22.25	500.00	100.0	V	179.00	-1
2898.75	---	37.44	54.00	16.56	500.00	200.0	H	223.00	0
2939.00	48.28	---	74.00	25.72	500.00	100.0	V	195.00	0

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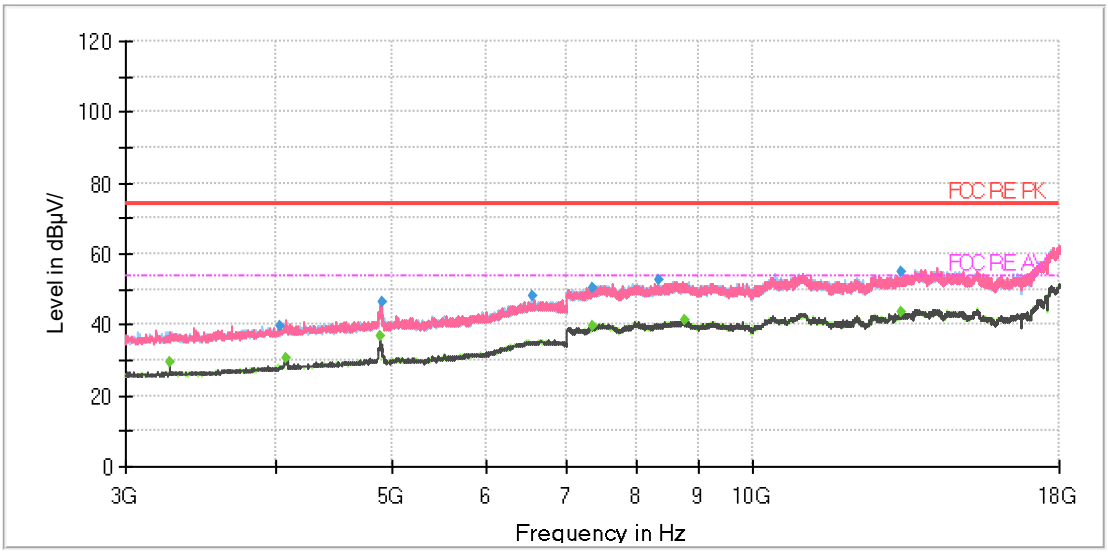

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3262.50	---	29.60	54.00	24.40	500.00	100.0	H	37.00	-10
4027.50	39.53	---	74.00	34.47	500.00	100.0	V	79.00	-8
4083.75	---	30.82	54.00	23.18	500.00	100.0	V	309.00	-8
4893.75	---	36.72	54.00	17.28	500.00	100.0	H	217.00	-6
4899.38	46.21	---	74.00	27.79	500.00	100.0	V	231.00	-6
6547.50	48.15	---	74.00	25.85	500.00	100.0	H	291.00	-1
7338.75	---	39.62	54.00	14.38	500.00	100.0	V	55.00	1
7348.13	50.63	---	74.00	23.37	500.00	200.0	H	75.00	1
8328.75	52.51	---	74.00	21.49	500.00	100.0	H	351.00	2
8761.88	---	41.05	54.00	12.95	500.00	100.0	H	266.00	2
13271.25	54.64	---	74.00	19.36	500.00	200.0	H	49.00	7
13293.75	---	43.54	54.00	10.46	500.00	100.0	V	55.00	7

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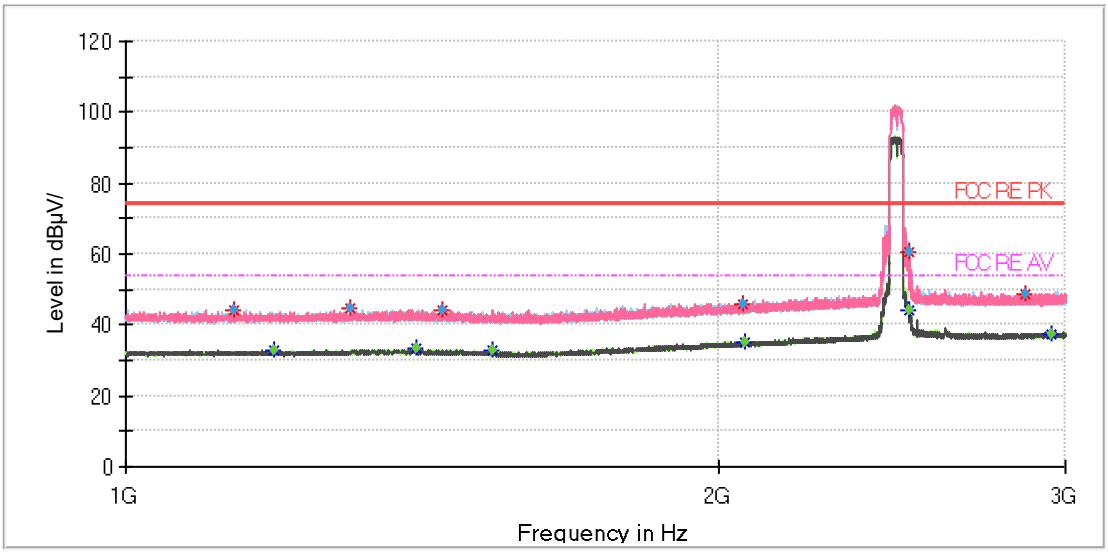
802.11n (HT40) CH9



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)
1134.75	44.27	---	74.00	29.73	500.00	100.0	H	0.00	-5
1190.25	---	32.66	54.00	21.34	500.00	100.0	H	98.00	-5
1300.50	44.65	---	74.00	29.35	500.00	100.0	H	0.00	-5
1404.50	---	33.11	54.00	20.89	500.00	200.0	H	291.00	-4
1447.50	44.37	---	74.00	29.63	500.00	200.0	V	98.00	-4
1534.75	---	33.06	54.00	20.94	500.00	100.0	H	50.00	-4
2059.00	46.09	---	74.00	27.91	500.00	100.0	H	50.00	-3
2064.25	---	35.32	54.00	18.68	500.00	200.0	V	224.00	-3
2498.50	60.74	---	74.00	13.26	500.00	200.0	H	223.00	-1
2499.25	---	43.94	54.00	10.06	500.00	200.0	H	205.00	-1
2863.00	48.47	---	74.00	25.53	500.00	200.0	V	149.00	0
2951.00	---	37.38	54.00	16.62	500.00	200.0	V	0.00	0

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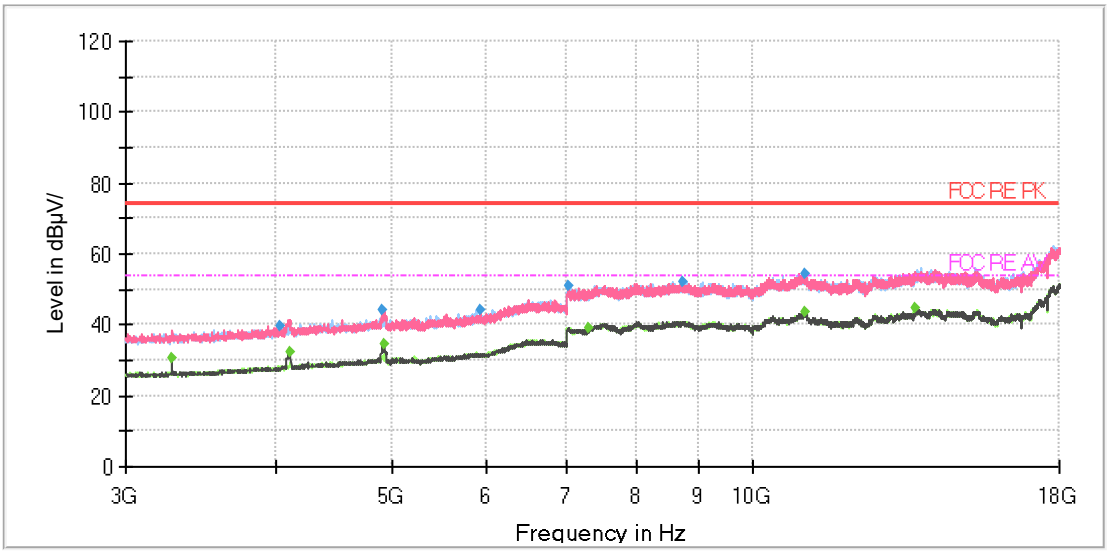

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.25	---	30.37	54.00	23.63	500.00	200.0	V	38.00	-10
4027.50	39.47	---	74.00	34.53	500.00	100.0	V	2.00	-8
4113.75	---	32.33	54.00	21.67	500.00	200.0	V	301.00	-8
4908.75	44.05	---	74.00	29.95	500.00	100.0	V	43.00	-6
4923.75	---	34.71	54.00	19.29	500.00	100.0	V	253.00	-6
5928.75	44.17	---	74.00	29.83	500.00	100.0	V	149.00	-4
7016.25	50.93	---	74.00	23.07	500.00	100.0	V	253.00	0
7303.13	---	39.21	54.00	14.79	500.00	100.0	H	346.00	1
8728.13	52.28	---	74.00	21.72	500.00	100.0	H	0.00	2
11040.00	---	43.53	54.00	10.47	500.00	100.0	H	359.00	5
11040.00	54.48	---	74.00	19.52	500.00	100.0	V	0.00	5
13672.50	---	44.57	54.00	9.43	500.00	100.0	H	355.00	8

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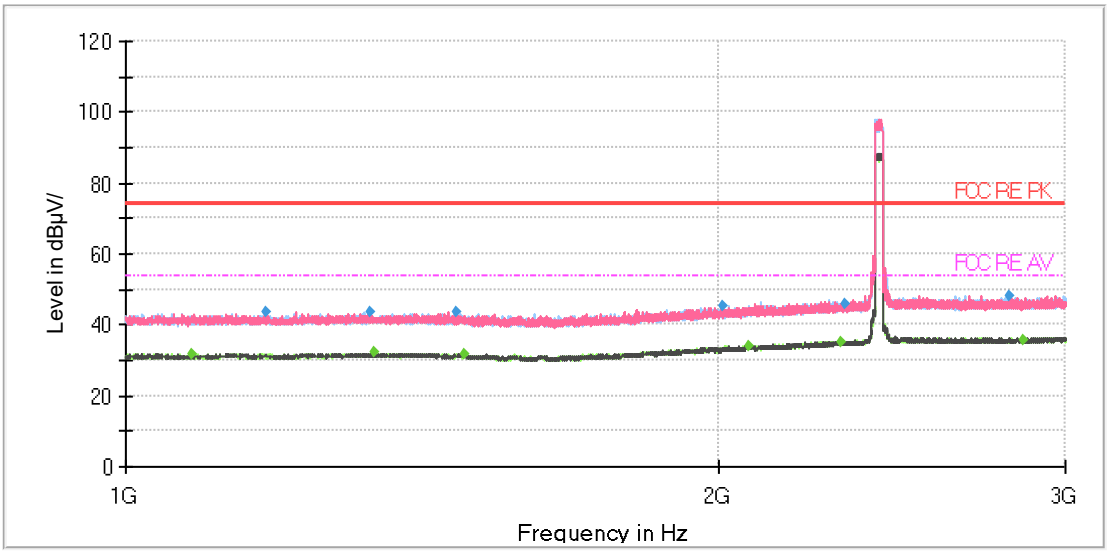
802.11ax HE20 CH 1



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)
1081.25	---	31.88	54.00	22.12	500.00	100.0	H	358.00	-5
1179.50	43.39	---	74.00	30.61	500.00	100.0	H	0.00	-5
1330.00	43.74	---	74.00	30.26	500.00	200.0	V	359.00	-4
1336.50	---	32.13	54.00	21.87	500.00	200.0	V	0.00	-4
1471.75	43.59	---	74.00	30.41	500.00	200.0	H	0.00	-4
1485.25	---	31.89	54.00	22.11	500.00	200.0	V	311.00	-4
2010.25	45.35	---	74.00	28.65	500.00	200.0	H	29.00	-3
2072.25	---	34.23	54.00	19.77	500.00	100.0	V	0.00	-3
2308.00	---	35.11	54.00	18.89	500.00	200.0	V	340.00	-1
2321.25	45.69	---	74.00	28.31	500.00	100.0	H	255.00	-1
2807.75	48.37	---	74.00	25.63	500.00	100.0	V	238.00	0
2854.50	---	35.50	54.00	18.50	500.00	200.0	H	75.00	0

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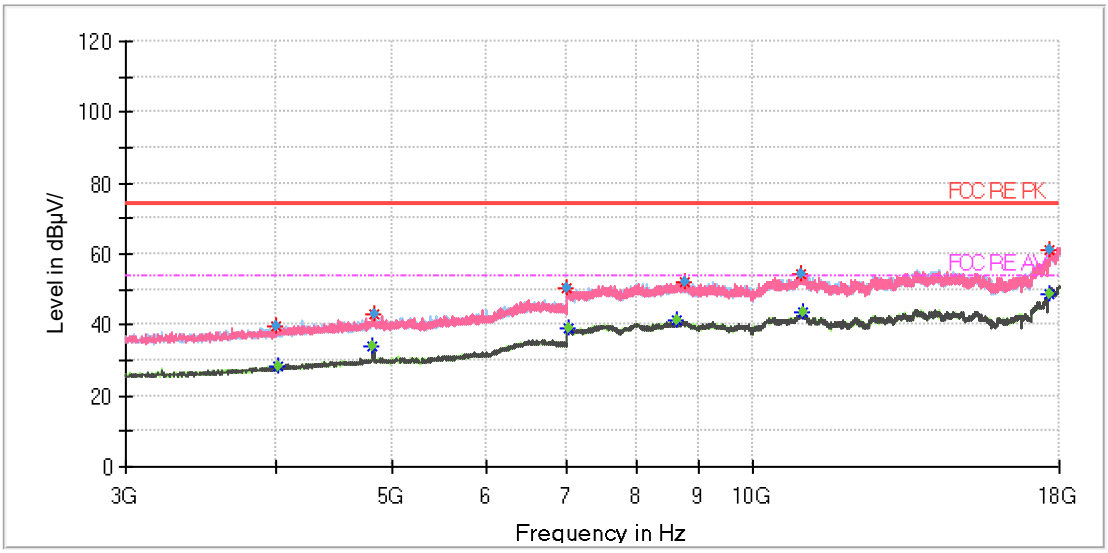

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3997.50	39.88	---	74.00	34.12	500.00	100.0	H	215.00	-8
4010.63	---	28.45	54.00	25.55	500.00	100.0	H	291.00	-8
4822.50	---	33.71	54.00	20.29	500.00	200.0	V	114.00	-7
4831.88	43.16	---	74.00	30.84	500.00	100.0	V	94.00	-7
7003.13	50.46	---	74.00	23.54	500.00	100.0	H	291.00	0
7006.88	---	39.15	54.00	14.85	500.00	100.0	V	94.00	0
8651.25	---	41.17	54.00	12.83	500.00	100.0	V	244.00	2
8761.88	52.21	---	74.00	21.79	500.00	200.0	V	288.00	2
10981.88	54.59	---	74.00	19.41	500.00	100.0	H	0.00	5
10985.63	---	43.75	54.00	10.25	500.00	100.0	H	350.00	5
17632.50	---	48.54	54.00	5.46	500.00	200.0	V	348.00	12
17681.25	61.21	---	74.00	12.79	500.00	200.0	V	114.00	12

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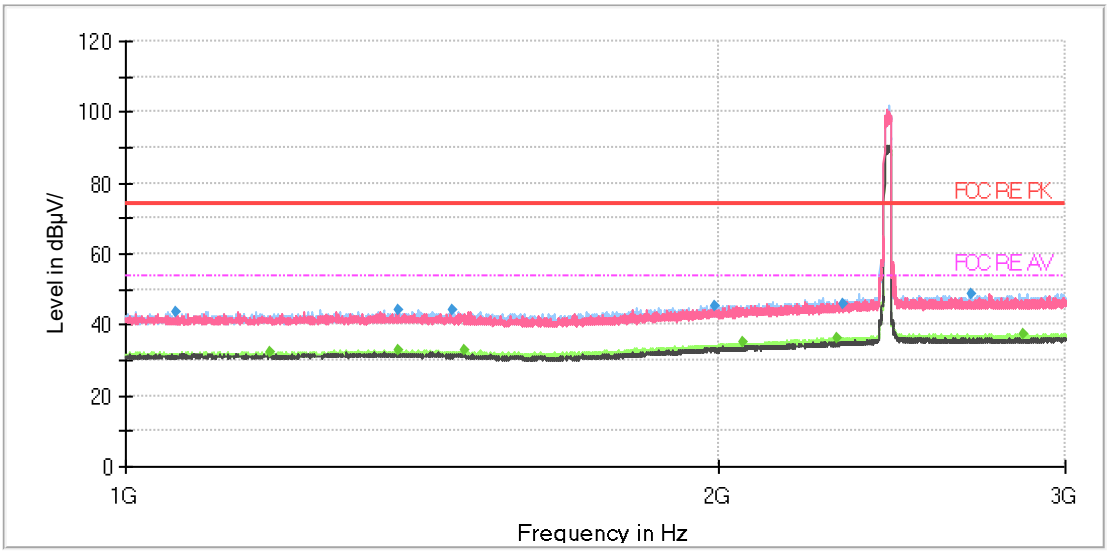
802.11ax HE20 CH6



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)
1060.50	43.52	---	74.00	30.48	500.00	200.0	V	305.00	-5
1183.00	---	32.38	54.00	21.62	500.00	100.0	H	316.00	-5
1373.75	---	32.83	54.00	21.17	500.00	100.0	H	0.00	-4
1374.25	44.30	---	74.00	29.70	500.00	200.0	H	14.00	-4
1464.50	44.07	---	74.00	29.93	500.00	100.0	H	355.00	-4
1486.00	---	32.72	54.00	21.28	500.00	100.0	H	355.00	-4
1992.50	45.55	---	74.00	28.45	500.00	100.0	H	0.00	-3
2057.00	---	34.83	54.00	19.17	500.00	100.0	H	350.00	-3
2296.50	---	36.07	54.00	17.93	500.00	100.0	H	229.00	-2
2314.25	46.11	---	74.00	27.89	500.00	100.0	H	0.00	-1
2686.25	48.76	---	74.00	25.24	500.00	100.0	H	350.00	-1
2856.25	---	37.46	54.00	16.54	500.00	100.0	H	350.00	0

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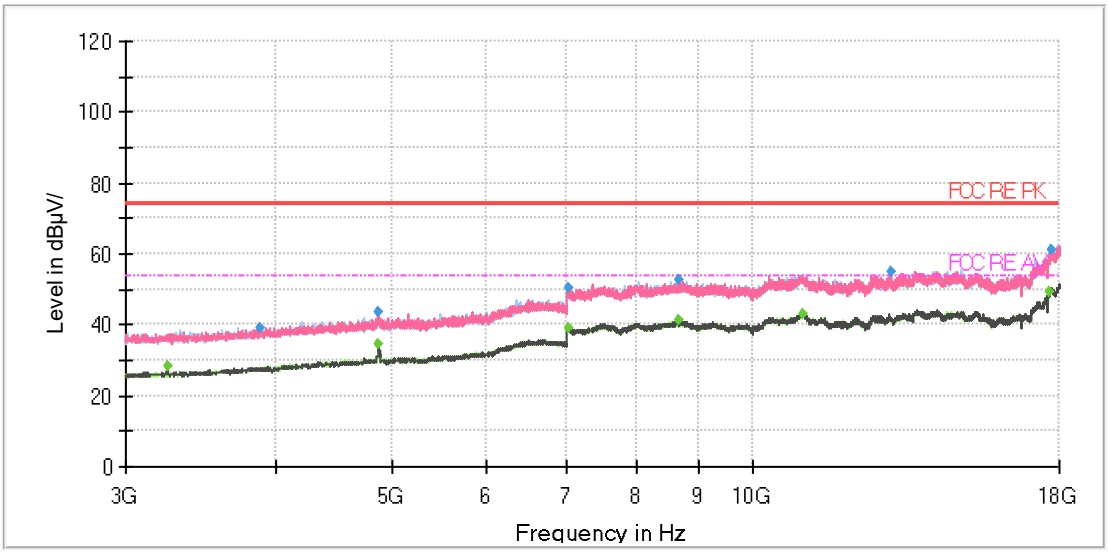

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3249.38	---	28.28	54.00	25.72	500.00	100.0	V	96.00	-10
3877.50	39.16	---	74.00	34.84	500.00	100.0	V	47.00	-9
4873.13	---	34.28	54.00	19.72	500.00	200.0	V	63.00	-6
4875.00	43.66	---	74.00	30.34	500.00	200.0	V	90.00	-6
7006.88	50.11	---	74.00	23.89	500.00	100.0	V	25.00	0
7016.25	---	39.11	54.00	14.89	500.00	100.0	V	25.00	0
8664.38	---	41.06	54.00	12.94	500.00	200.0	H	94.00	2
8670.00	52.85	---	74.00	21.15	500.00	100.0	V	72.00	2
10983.75	---	43.11	54.00	10.89	500.00	200.0	H	3.00	5
13038.75	54.65	---	74.00	19.35	500.00	100.0	H	216.00	6
17686.88	---	49.52	54.00	4.48	500.00	100.0	H	318.00	12
17758.13	61.21	---	74.00	12.79	500.00	200.0	H	3.00	13

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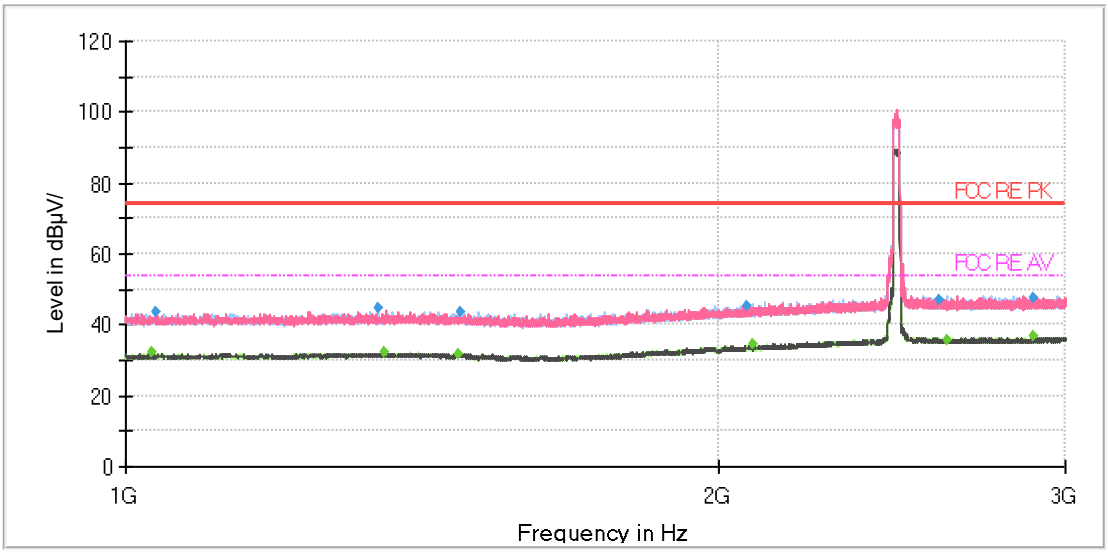
802.11ax HE20 CH11



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)
1031.75	---	32.20	54.00	21.80	500.00	100.0	H	334.00	-5
1036.75	43.57	---	74.00	30.43	500.00	200.0	V	352.00	-5
1342.75	44.56	---	74.00	29.44	500.00	100.0	H	358.00	-4
1351.50	---	32.07	54.00	21.93	500.00	200.0	V	352.00	-4
1476.50	---	31.86	54.00	22.14	500.00	200.0	V	290.00	-4
1479.00	43.65	---	74.00	30.35	500.00	200.0	H	52.00	-4
2066.50	45.41	---	74.00	28.59	500.00	200.0	V	356.00	-3
2080.00	---	34.37	54.00	19.63	500.00	200.0	V	0.00	-3
2590.50	46.70	---	74.00	27.30	500.00	100.0	V	0.00	-1
2614.25	---	35.62	54.00	18.38	500.00	100.0	H	0.00	-1
2887.00	---	36.53	54.00	17.47	500.00	200.0	V	352.00	0
2892.00	47.42	---	74.00	26.58	500.00	200.0	H	23.00	0

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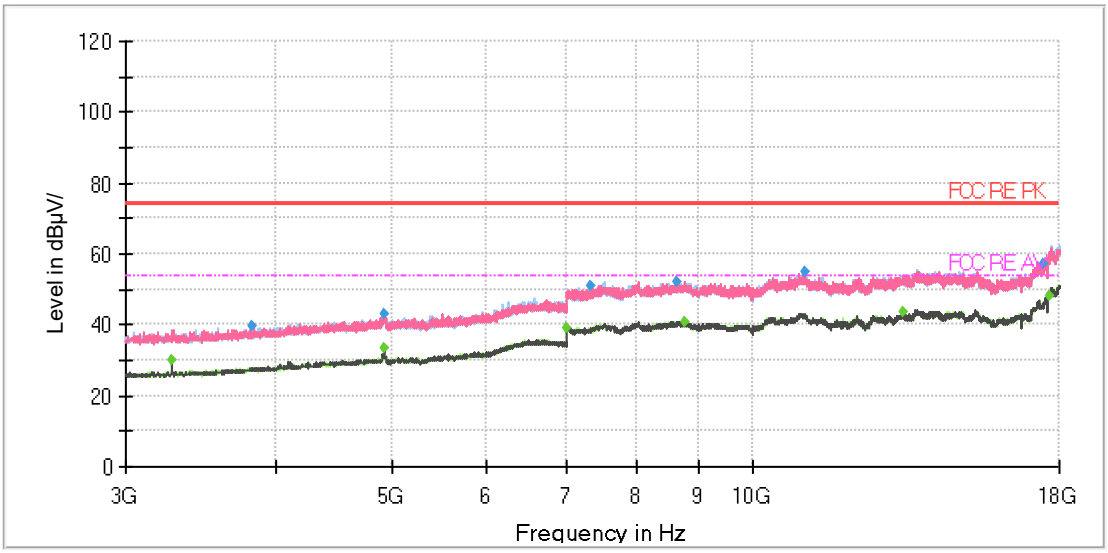

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3281.25	---	29.86	54.00	24.14	500.00	100.0	V	76.00	-10
3817.50	39.35	---	74.00	34.65	500.00	100.0	H	348.00	-9
4921.88	42.87	---	74.00	31.13	500.00	200.0	H	92.00	-6
4923.75	---	33.26	54.00	20.74	500.00	200.0	V	141.00	-6
7003.13	---	39.15	54.00	14.85	500.00	100.0	H	91.00	0
7320.00	50.82	---	74.00	23.18	500.00	200.0	V	0.00	1
8630.63	52.35	---	74.00	21.65	500.00	100.0	H	348.00	2
8761.88	---	40.98	54.00	13.02	500.00	100.0	V	50.00	2
11064.38	54.67	---	74.00	19.33	500.00	100.0	V	128.00	5
13342.50	---	43.35	54.00	10.65	500.00	100.0	V	102.00	7
17484.38	57.17	---	74.00	16.83	500.00	100.0	H	140.00	11
17647.50	---	48.35	54.00	5.65	500.00	100.0	H	192.00	12

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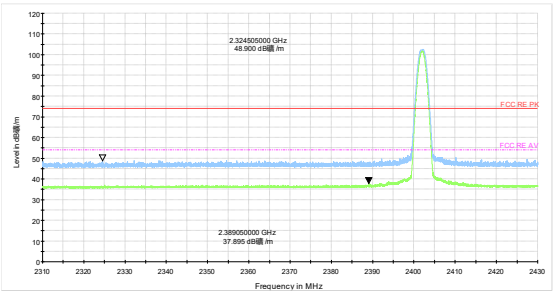
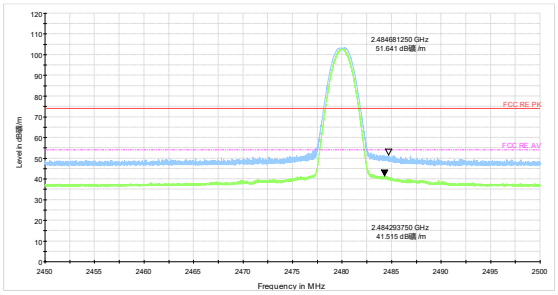
1.2. Bluetooth LE

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 (dB㎶/m) in the test plot below means (dBμV/m)

The signal beyond the limit is carrier.

	
Bluetooth LE Channel 0 Peak+ Average	Bluetooth LE Channel 39 Peak+Average

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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 coaxial and coplanar for 9k-30MHz; horizontal and vertical for above 30MHz by software.**
4. **For below 1GHz**

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

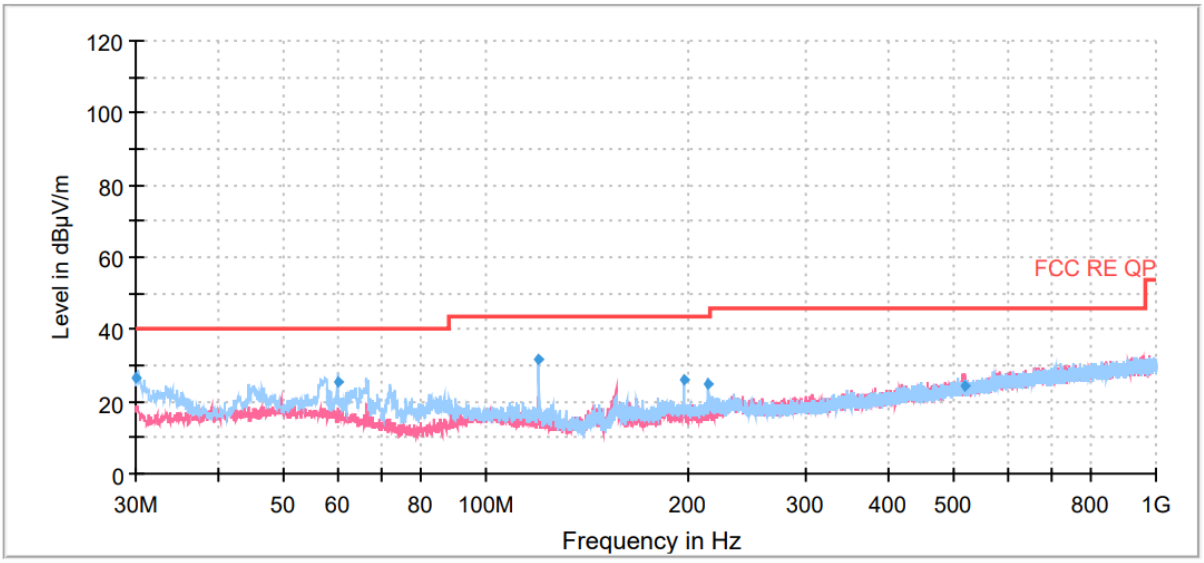
For above 1GHz

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:

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.



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.00	26.47	40.00	13.53	1000.00	101.0	H	315.00	17
60.01	25.21	40.00	14.79	1000.00	100.0	H	88.00	19
120.01	31.83	43.50	11.67	1000.00	101.0	H	122.00	17
198.00	26.17	43.50	17.33	1000.00	224.0	H	28.00	18
214.49	25.05	43.50	18.45	1000.00	200.0	H	119.00	18
519.60	24.38	46.00	21.62	1000.00	125.0	V	127.00	25

Radiates Emission from 30MHz to 1GHz

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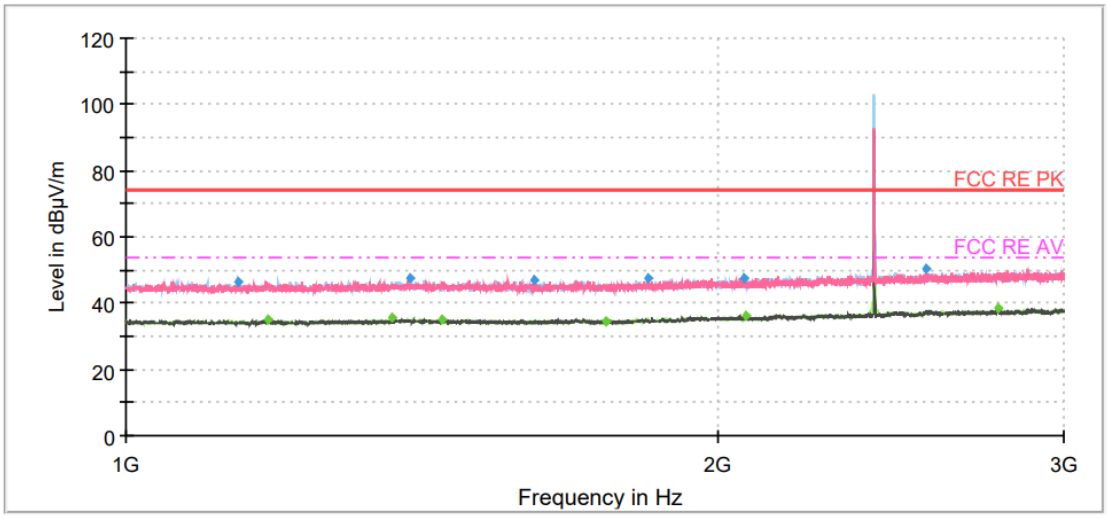
Bluetooth LE-Channel 0



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)
1141.50	46.53	---	74.00	27.47	500.00	100.0	V	128.00	3
1181.25	---	34.86	54.00	19.14	500.00	200.0	H	31.00	4
1366.00	---	35.38	54.00	18.62	500.00	200.0	V	359.00	4
1393.25	47.61	---	74.00	26.39	500.00	100.0	H	248.00	5
1446.25	---	35.28	54.00	18.72	500.00	100.0	V	0.00	4
1613.75	47.12	---	74.00	26.88	500.00	200.0	H	117.00	4
1753.50	---	34.31	54.00	19.69	500.00	200.0	H	137.00	5
1841.75	47.49	---	74.00	26.51	500.00	200.0	H	3.00	5
2064.50	47.53	---	74.00	26.47	500.00	100.0	H	351.00	6
2064.75	---	36.18	54.00	17.82	500.00	100.0	H	357.00	6
2550.75	50.23	---	74.00	23.77	500.00	200.0	V	220.00	8
2777.25	---	38.28	54.00	15.72	500.00	100.0	H	0.00	8

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

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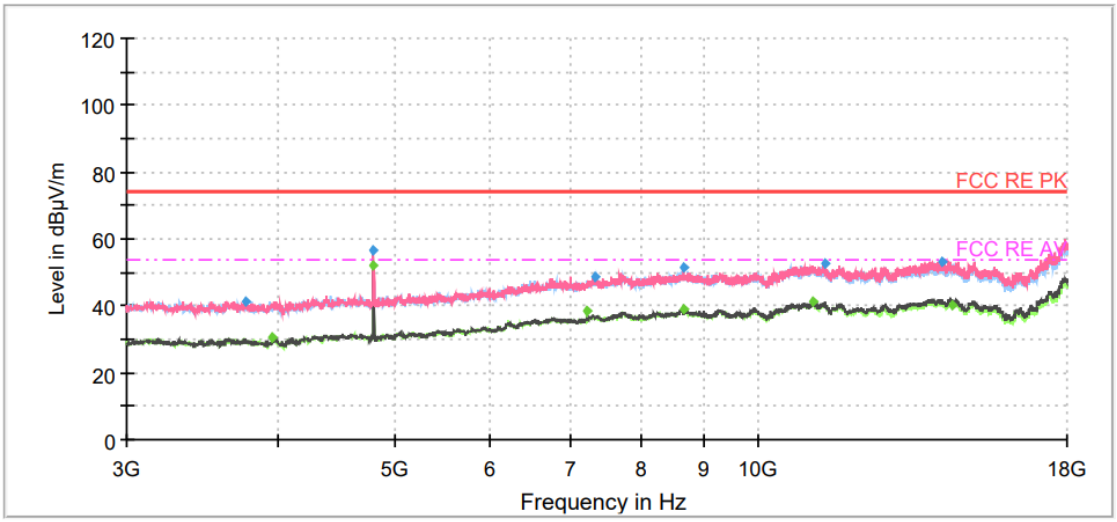

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3763.13	41.60	---	74.00	32.40	500.00	200.0	V	332.00	-6
3956.25	---	30.40	54.00	23.61	500.00	200.0	H	323.00	-5
4803.75	---	51.97	54.00	2.03	500.00	200.0	V	181.00	-4
4803.75	56.62	---	74.00	17.38	500.00	200.0	V	181.00	-4
7205.63	---	38.55	54.00	15.45	500.00	100.0	H	277.00	1
7329.38	48.44	---	74.00	25.56	500.00	200.0	V	28.00	2
8658.75	---	39.15	54.00	14.85	500.00	200.0	V	72.00	4
8666.25	51.48	---	74.00	22.52	500.00	100.0	V	0.00	4
11103.75	---	41.19	54.00	12.81	500.00	100.0	V	285.00	7
11355.00	52.44	---	74.00	21.56	500.00	100.0	V	0.00	7
14190.00	53.21	---	74.00	20.79	500.00	100.0	V	101.00	9
14439.38	---	40.08	54.00	13.92	500.00	100.0	H	173.00	8

Radiates Emission from 3GHz to 18GHz

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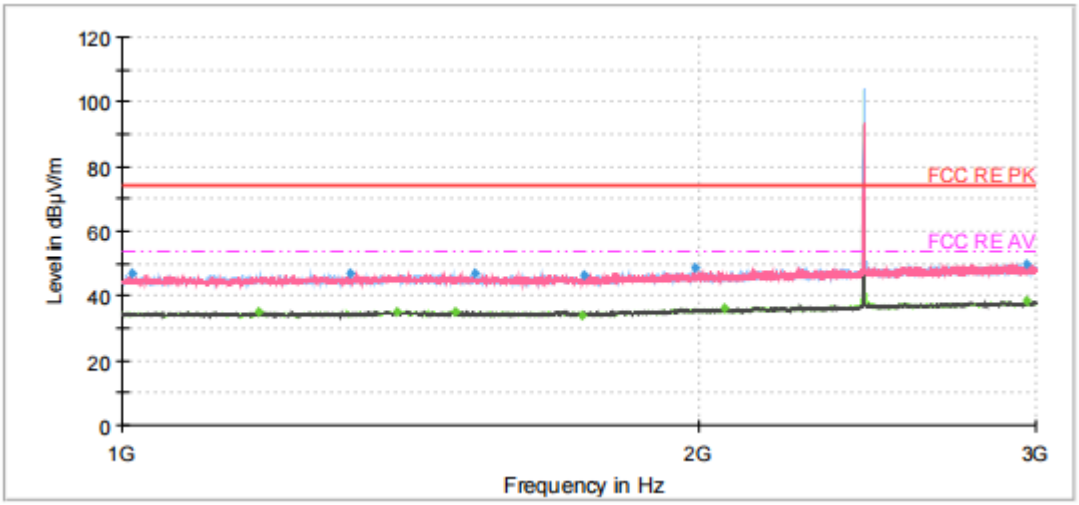
Bluetooth LE-Channel 19



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)
1012.25	46.74	---	74.00	27.26	500.00	200.0	V	351.00	3
1178.50	---	35.15	54.00	18.85	500.00	200.0	V	220.00	4
1315.75	46.94	---	74.00	27.06	500.00	200.0	V	65.00	4
1390.50	---	35.28	54.00	18.72	500.00	200.0	H	158.00	5
1493.50	---	35.20	54.00	18.80	500.00	200.0	V	344.00	4
1528.00	46.86	---	74.00	27.14	500.00	200.0	H	11.00	4
1737.25	---	34.13	54.00	19.87	500.00	100.0	H	174.00	5
1741.50	46.30	---	74.00	27.70	500.00	200.0	H	177.00	5
1991.50	48.40	---	74.00	25.60	500.00	100.0	V	77.00	6
2061.50	---	36.04	54.00	17.96	500.00	100.0	H	310.00	6
2962.25	---	38.36	54.00	15.64	500.00	100.0	H	0.00	8
2962.75	49.77	---	74.00	24.23	500.00	100.0	H	356.00	8

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

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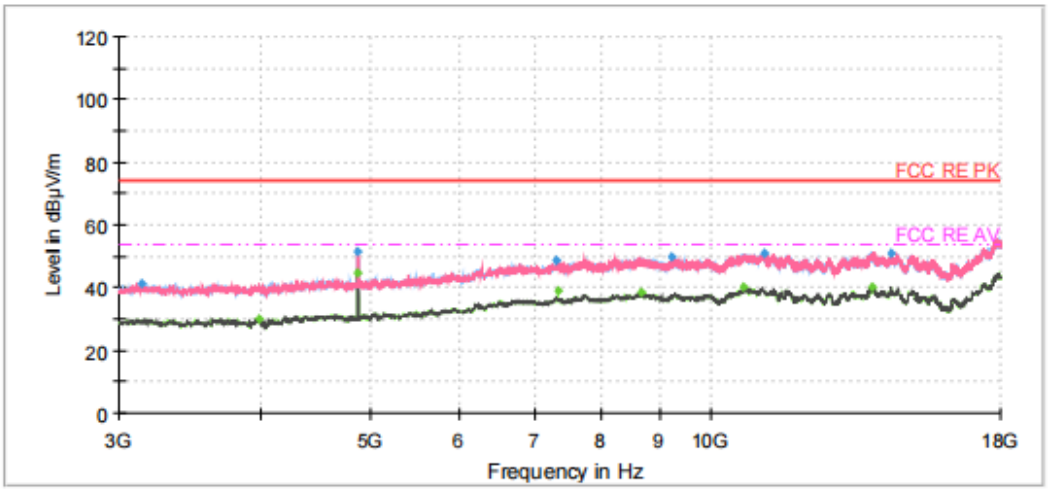

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3144.38	41.23	---	74.00	32.77	500.00	200.0	V	3.00	-8
3986.25	---	30.21	54.00	23.79	500.00	100.0	H	20.00	-5
4878.75	---	44.94	54.00	9.06	500.00	200.0	V	183.00	-3
4878.75	51.32	---	74.00	22.68	500.00	200.0	V	183.00	-3
7284.38	48.67	---	74.00	25.33	500.00	200.0	V	44.00	2
7320.00	---	38.98	54.00	15.02	500.00	100.0	H	281.00	2
8668.13	---	38.44	54.00	15.56	500.00	200.0	V	206.00	4
9230.63	49.82	---	74.00	24.18	500.00	100.0	V	358.00	5
10674.38	---	40.00	54.00	14.00	500.00	200.0	H	0.00	6
11120.63	51.10	---	74.00	22.90	500.00	100.0	V	69.00	7
13871.25	---	40.42	54.00	13.58	500.00	200.0	H	166.00	9
14400.00	51.11	---	74.00	22.89	500.00	1			

截图工具

Radiates Emission from 3GHz to 18GHz

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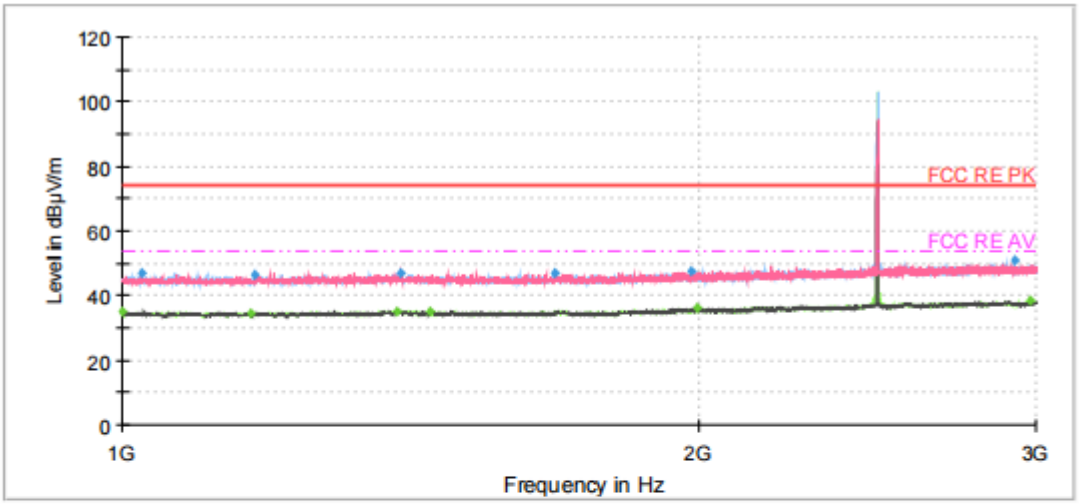
Bluetooth LE-Channel 39



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)
1000.00	---	34.90	54.00	19.10	500.00	100.0	V	203.00	3
1023.25	47.19	---	74.00	26.81	500.00	100.0	V	32.00	3
1167.50	---	34.42	54.00	19.58	500.00	200.0	H	124.00	3
1171.50	46.39	---	74.00	27.61	500.00	200.0	H	8.00	4
1392.50	---	35.30	54.00	18.70	500.00	100.0	H	194.00	5
1399.50	46.87	---	74.00	27.13	500.00	200.0	V	350.00	5
1448.00	---	35.13	54.00	18.87	500.00	200.0	H	16.00	4
1681.00	46.86	---	74.00	27.14	500.00	200.0	H	177.00	5
1980.25	47.54	---	74.00	26.46	500.00	100.0	H	155.00	6
1993.75	---	35.97	54.00	18.03	500.00	200.0	H	164.00	6
2926.50	50.78	---	74.00	23.22	500.00	200.0	H	157.00	8
2976.00	---	38.32	54.00	15.68	500.00	100.0	V	282.00	8

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

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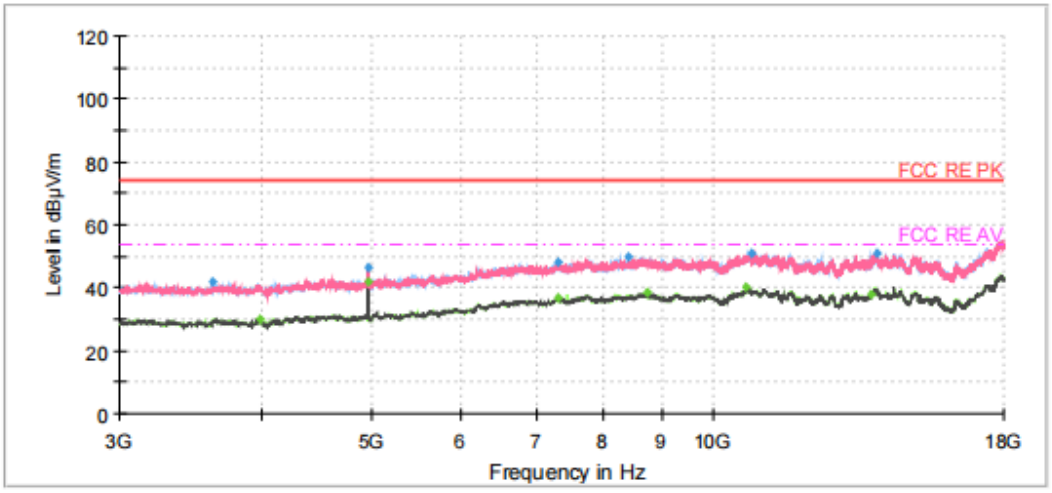

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3624.38	41.61	---	74.00	32.39	500.00	100.0	H	0.00	-7
3988.13	---	30.13	54.00	23.87	500.00	200.0	H	359.00	-5
4959.38	---	41.63	54.00	12.37	500.00	200.0	V	163.00	-3
4959.38	46.63	---	74.00	27.37	500.00	100.0	V	162.00	-3
7278.75	---	36.94	54.00	17.06	500.00	200.0	V	45.00	2
7295.63	47.83	---	74.00	26.17	500.00	100.0	V	353.00	2
8420.63	49.72	---	74.00	24.28	500.00	200.0	H	200.00	3
8739.38	---	38.50	54.00	15.50	500.00	200.0	H	287.00	5
10674.38	---	39.94	54.00	14.06	500.00	200.0	H	170.00	6
10783.13	50.89	---	74.00	23.11	500.00	200.0	V	8.00	7
13770.00	---	38.11	54.00	15.89	500.00	200.0	H	0.00	9
13918.13	51.11	---	74.00	22.90	500.00	200.0	V	74.00	9

Radiates Emission from 3GHz to 18GHz

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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.

Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.166	29.64	65.17	35.53	13.59	55.17	41.58	20.89	L1	9.000	1.000
0.353	35.95	58.90	22.96	13.69	48.90	35.22	20.92	L1	9.000	1.000
0.841	27.29	56.00	28.71	10.03	46.00	35.97	20.29	L1	9.000	1.000
2.537	28.56	56.00	27.44	9.89	46.00	36.11	19.54	L1	9.000	1.000
10.610	29.51	60.00	30.49	12.76	50.00	37.24	19.41	L1	9.000	1.000
22.112	26.65	60.00	33.35	12.08	50.00	37.92	19.70	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

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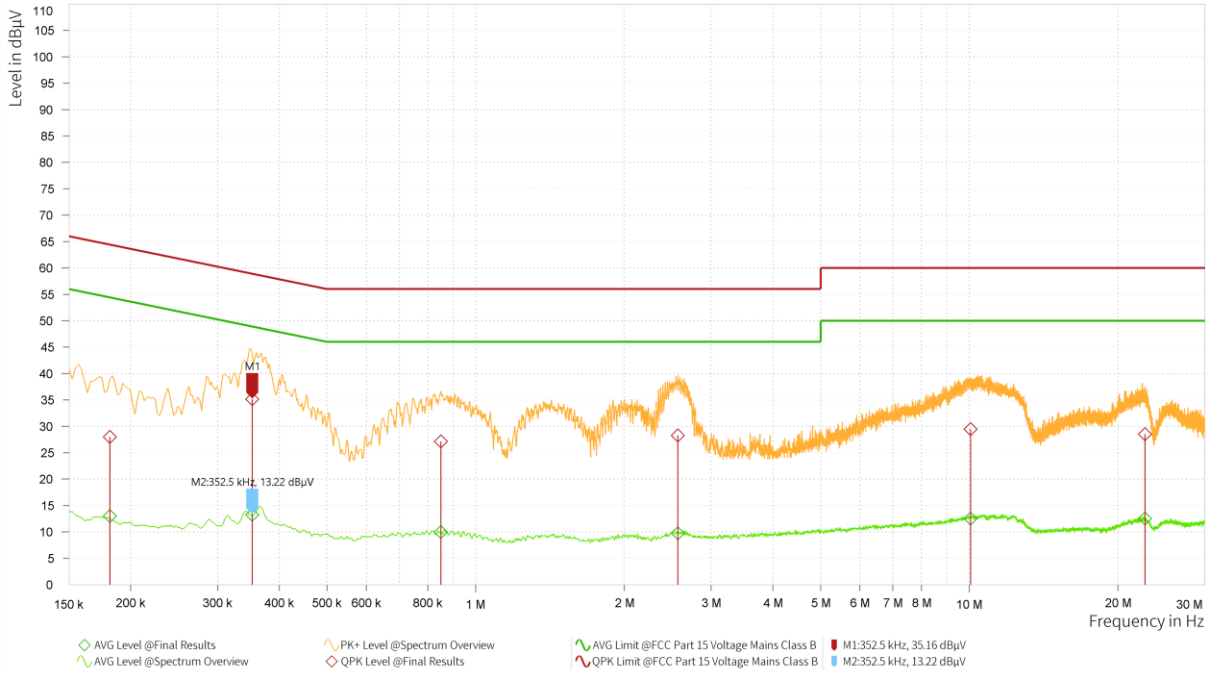

Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.182	27.97	64.42	36.45	12.98	54.42	41.44	21.04	N	9.000	1.000
0.353	35.16	58.90	23.74	13.22	48.90	35.69	20.93	N	9.000	1.000
0.850	27.15	56.00	28.85	9.96	46.00	36.04	20.29	N	9.000	1.000
2.569	28.25	56.00	27.75	9.73	46.00	36.27	19.54	N	9.000	1.000
10.057	29.46	60.00	30.54	12.53	50.00	37.47	19.44	N	9.000	1.000
22.709	28.53	60.00	31.47	12.52	50.00	37.48	19.78	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

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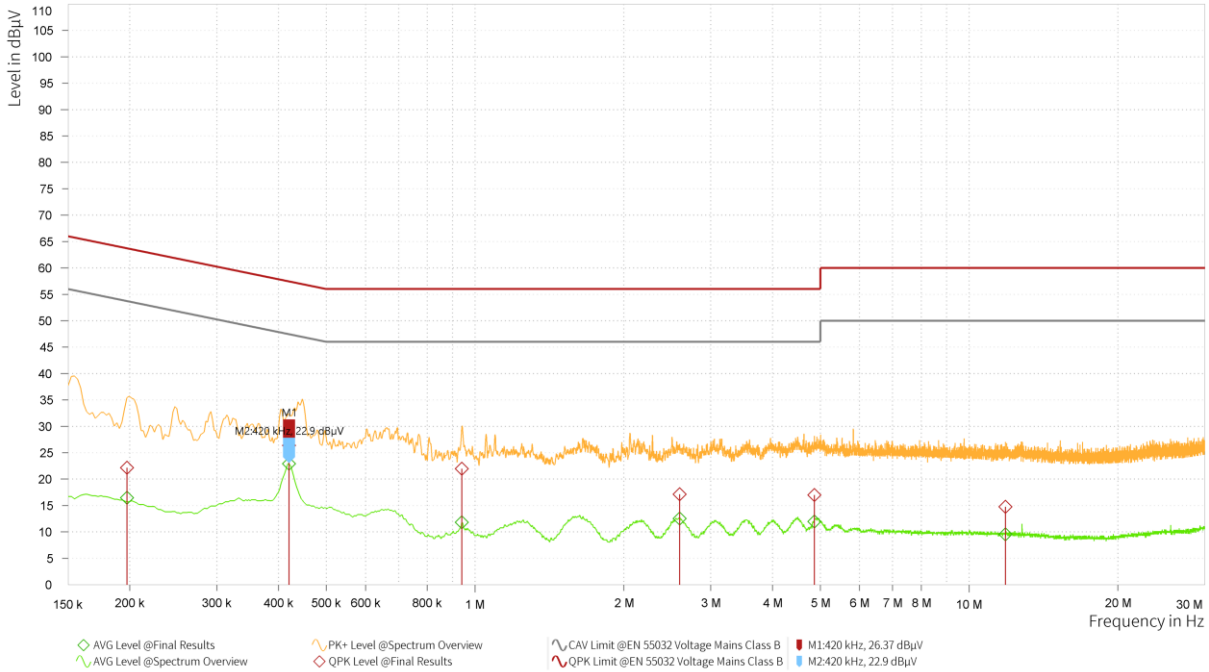
2.2. Bluetooth LE

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.



Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG: CAV Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.197	22.13	63.73	41.59	16.46	53.73	37.27	21.02	L1	9.000	1.000
0.420	26.37	57.45	31.08	22.90	47.45	24.55	20.86	L1	9.000	1.000
0.940	21.97	56.00	34.03	11.81	46.00	34.19	20.21	L1	9.000	1.000
2.594	17.13	56.00	38.87	12.51	46.00	33.49	19.53	L1	9.000	1.000
4.862	16.98	56.00	39.02	11.94	46.00	34.06	19.40	L1	9.000	1.000
11.841	14.73	60.00	45.27	9.53	50.00	40.47	19.42	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

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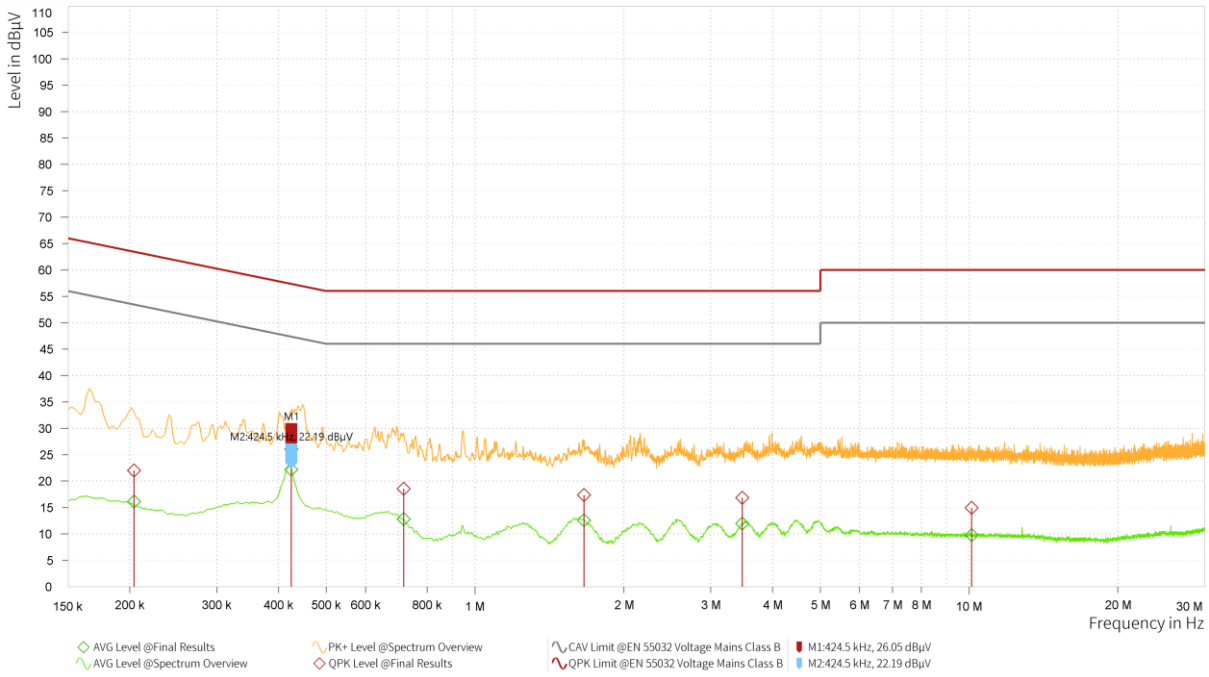

Frequency [MHz]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	AVG Level [dBµV]	AVG: CAV Limit [dBµV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.204	21.99	63.45	41.45	16.13	53.45	37.32	21.02	N	9.000	1.000
0.425	26.05	57.36	31.31	22.19	47.36	25.17	20.86	N	9.000	1.000
0.717	18.52	56.00	37.48	12.82	46.00	33.18	20.56	N	9.000	1.000
1.662	17.36	56.00	38.64	12.58	46.00	33.42	19.78	N	9.000	1.000
3.476	16.82	56.00	39.18	11.94	46.00	34.06	19.46	N	9.000	1.000
10.124	14.94	60.00	45.06	9.78	50.00	40.22	19.44	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

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