

9. Radiated Spurious Emission

9.1 Operating environment

Temperature : 24 °C

Relative humidity : 45 %

9.2 Measurement method

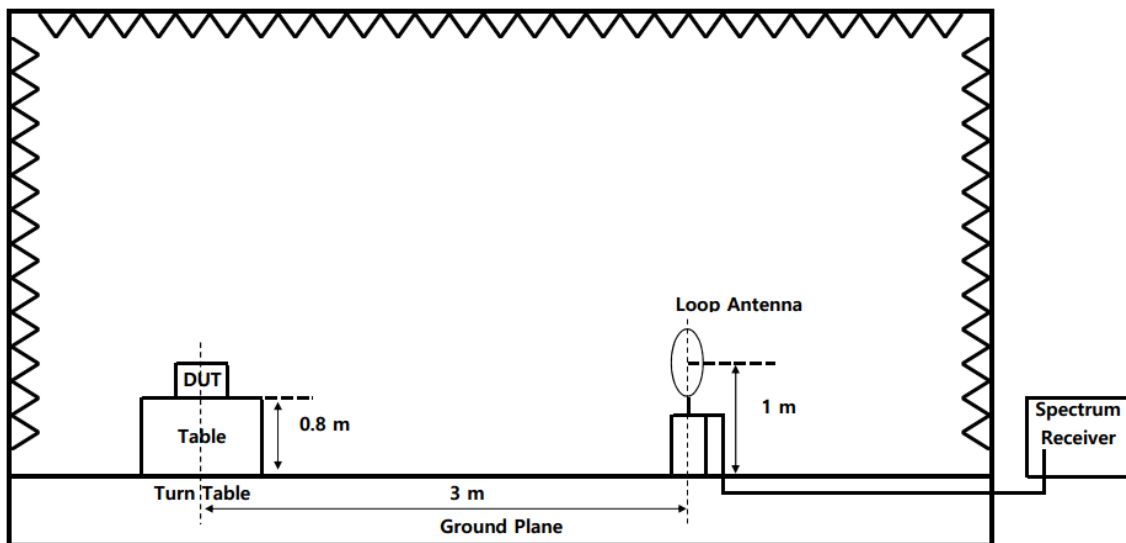
Standard : §15.247 (d), §15.209, §15.205

9.3 Test setup

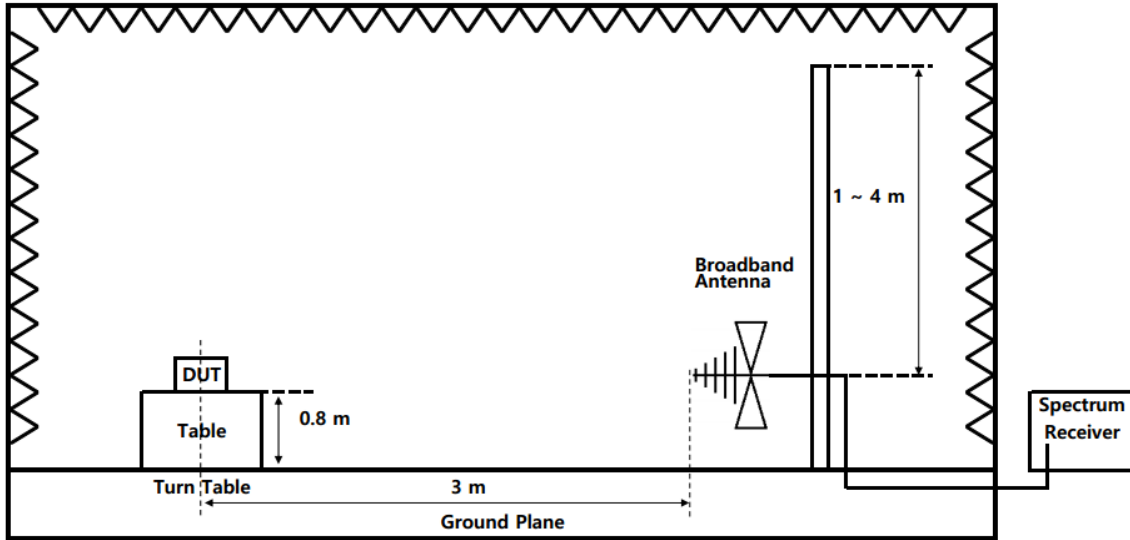
The radiated emissions measurements were performed on the 3 m, Semi-Anechoic Chamber. The EUT was placed on a non-conductive turntable above the ground plane.

The frequency spectrum from 9 kHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal and vertical polarization of the receiving antenna.

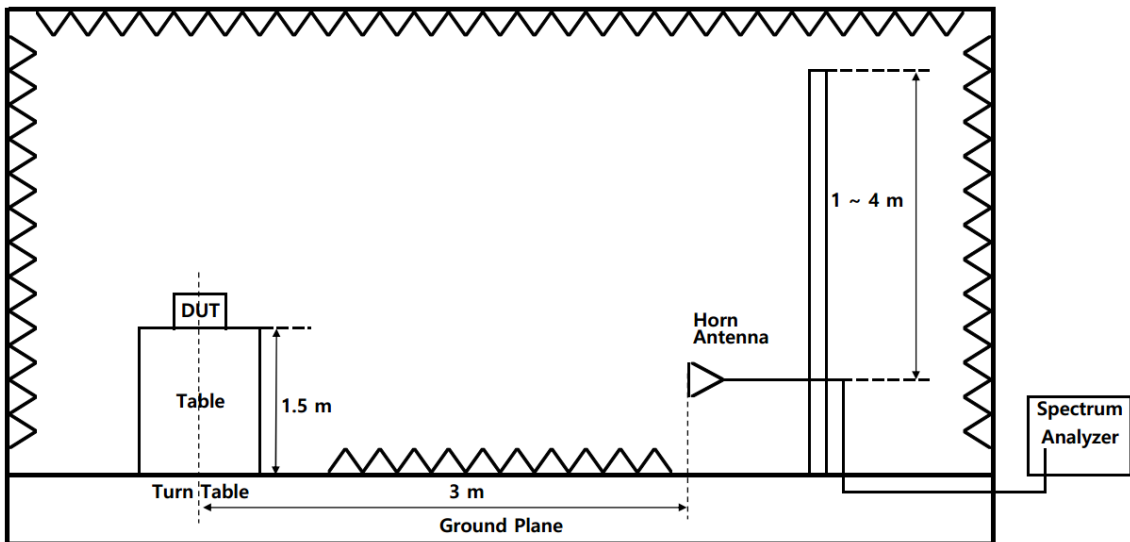
9.3.1 Below 30 MHz



9.3.2 30 MHz to 1 GHz



9.3.3 Above 1 GHz





9.4 Test data

Operating mode : Transmit mode

Test Result : Pass

9.4.1 Measurement Result for 802.11b

9.4.1.1 Measurement Results for Restricted Band

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 356.57	47.68	Peak	H	-14.70	62.38	73.98	11.60
	9.97	Average	H		24.67	53.98	29.31
High CH							
2 488.48	39.75	Peak	H	-14.40	54.15	73.98	19.83
	26.75	Average	H		41.15	53.98	12.83

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

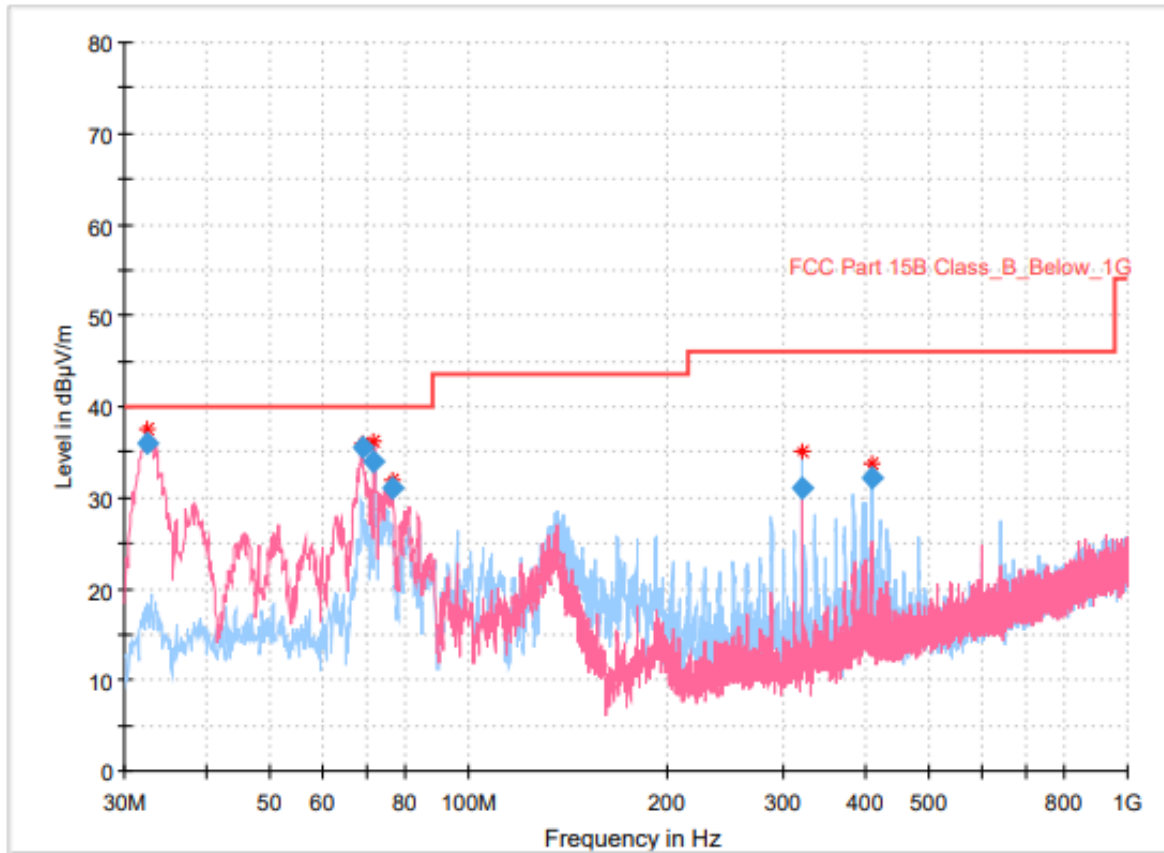
※ Result = Reading + Corr. Factor

※ Margin = Limit - Result

9.4.1.2 Measurement Results for Below 30 MHz

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

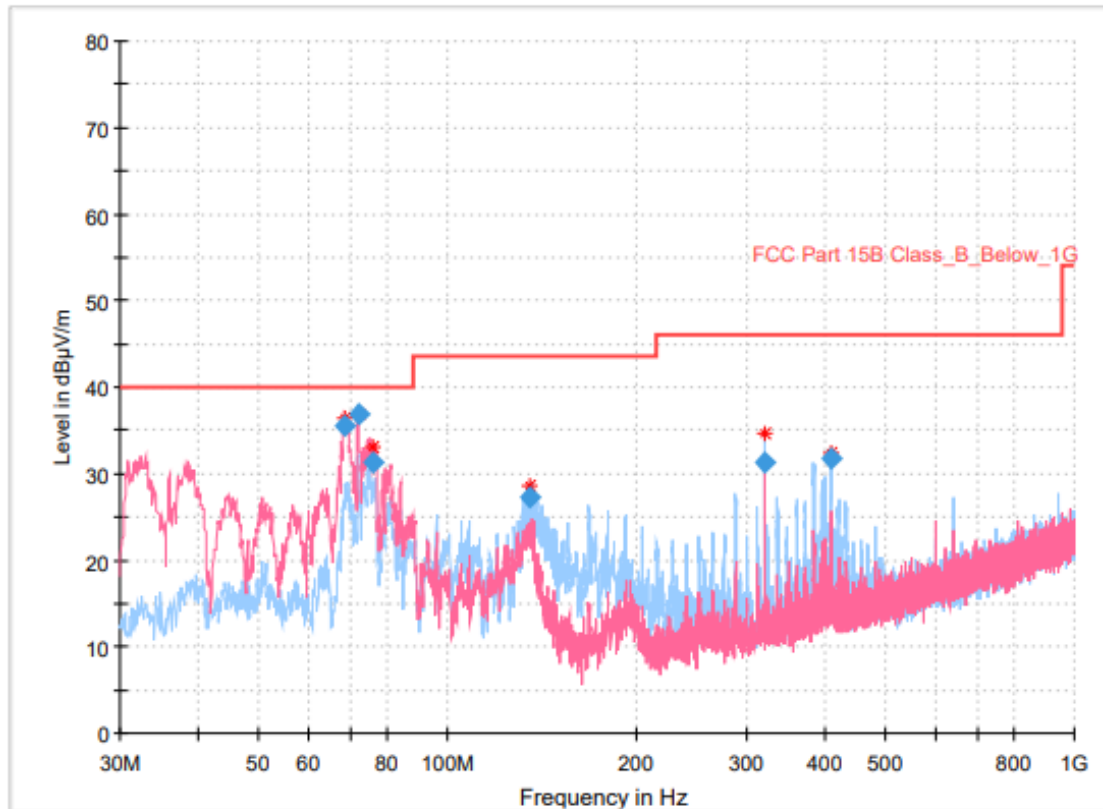
9.4.1.3 Measurement Results for Below 1 GHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.522000	35.98	40.00	4.02	1000.0	120.000	100.0	V	294.0	-24.6
69.091000	35.60	40.00	4.40	1000.0	120.000	100.0	V	280.0	-23.1
71.904000	33.98	40.00	6.02	1000.0	120.000	100.0	V	254.0	-24.2
76.754000	31.13	40.00	8.87	1000.0	120.000	100.0	V	294.0	-26.0
319.933000	30.97	46.00	15.03	1000.0	120.000	100.0	H	40.0	-17.8
408.591000	32.12	46.00	13.88	1000.0	120.000	100.0	H	307.0	-15.3

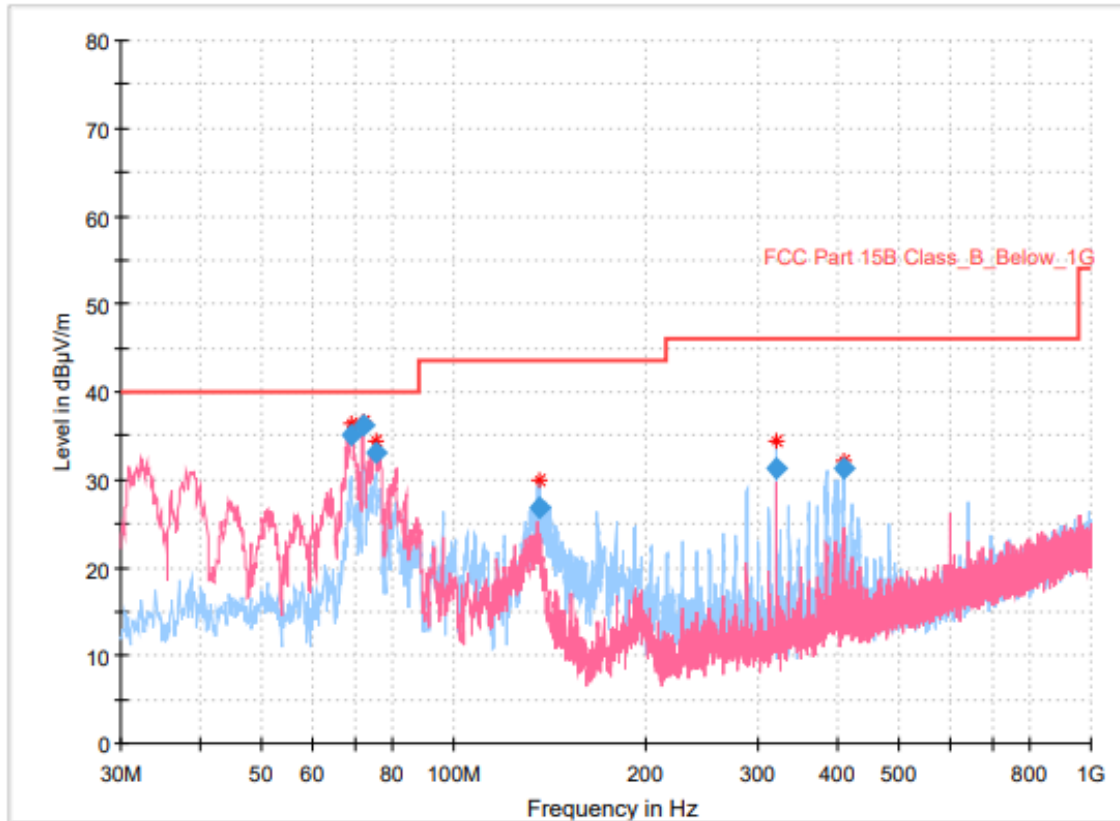
Low



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
68.800000	35.61	40.00	4.39	1000.0	120.000	100.0	V	214.0	-23.0
72.001000	36.86	40.00	3.14	1000.0	120.000	100.0	V	227.0	-24.3
76.075000	31.38	40.00	8.62	1000.0	120.000	100.0	V	296.0	-25.9
135.245000	27.20	43.50	16.30	1000.0	120.000	100.0	H	197.0	-24.6
319.933000	31.29	46.00	14.71	1000.0	120.000	100.0	H	25.0	-17.8
408.591000	31.84	46.00	14.16	1000.0	120.000	100.0	H	105.0	-15.3

Mid



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.188000	35.16	40.00	4.84	1000.0	120.000	100.0	V	268.0	-23.2
72.001000	36.26	40.00	3.74	1000.0	120.000	100.0	V	254.0	-24.3
75.299000	33.13	40.00	6.87	1000.0	120.000	100.0	V	209.0	-25.6
136.118000	26.89	43.50	16.61	1000.0	120.000	100.0	H	186.0	-24.7
319.933000	31.25	46.00	14.75	1000.0	120.000	100.0	H	25.0	-17.8
408.300000	31.21	46.00	14.79	1000.0	120.000	100.0	H	298.0	-15.3

High



9.4.1.4 Measurement Results for Above 1 GHz

Frequency (MHz)	Detector	Ant. Pol. (H/V)	Reading (dBμV)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 823.68	Peak	V	52.56	-3.30	55.86	73.98	18.12
	Average	V	47.10		50.40	53.98	3.58
5 999.51	Peak	V	49.81	-1.70	51.51	73.98	22.47
	Average	V	42.09		43.79	53.98	10.19
7 238.20	Peak	V	48.20	0.90	47.30	73.98	26.68
	Average	V	34.56		33.66	53.98	20.32
9 649.89	Peak	H	52.71	3.90	48.81	73.98	25.17
	Average	H	39.59		35.69	53.98	18.29
Mid CH							
4 874.30	Peak	V	48.03	-3.80	51.83	73.98	22.15
	Average	V	41.65		45.45	53.98	8.53
5 999.70	Peak	V	45.52	-2.40	47.92	73.98	26.06
	Average	V	38.96		41.36	53.98	12.62
7 329.10	Peak	V	41.73	0.40	41.33	73.98	32.65
	Average	V	28.62		28.22	53.98	25.76
9 748.20	Peak	V	47.34	3.40	43.94	73.98	30.04
	Average	V	33.62		30.22	53.98	23.76



High CH							
4 923.60	Peak	V	51.61	-3.60	55.21	73.98	18.77
	Average	V	45.89		49.49	53.98	4.49
5 999.70	Peak	V	43.77	-2.40	46.17	73.98	27.81
	Average	V	36.55		38.95	53.98	15.03
7 378.40	Peak	H	42.28	0.50	41.78	73.98	32.20
	Average	H	28.86		28.36	53.98	25.62
9 848.50	Peak	H	47.28	3.60	43.68	73.98	30.30
	Average	H	33.73		30.13	53.98	23.85

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result



9.4.2 Measurement Result for 802.11g

9.4.2.1 Measurement Results for Restricted Band

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 388.86	46.57	Peak	H	-14.70	61.27	73.98	12.71
	31.88	Average	H		46.58	53.98	7.40
High CH							
2 484.27	53.43	Peak	H	-14.50	67.93	73.98	6.05
	37.96	Average	H		52.46	53.98	1.52

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

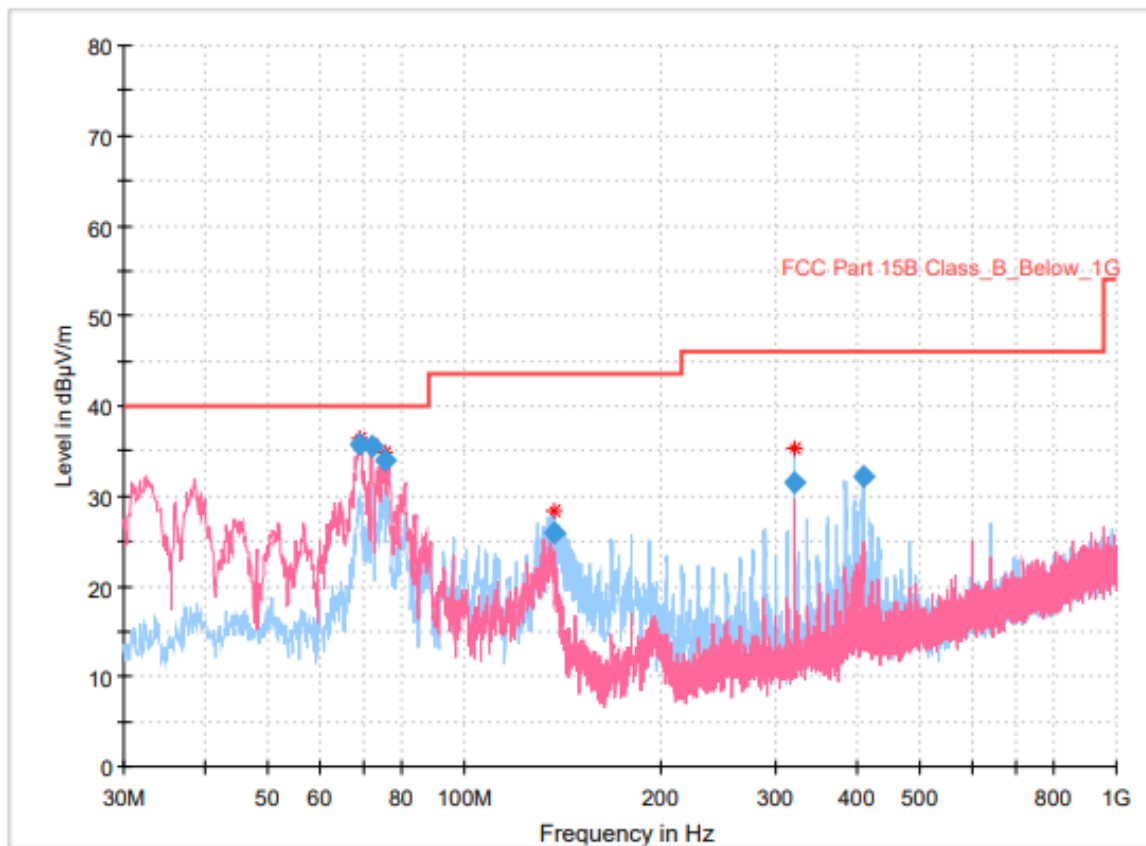
※ Result = Reading + Corr. Factor

※ Margin = Limit - Result

9.4.2.2 Measurement Results for Below 30 MHz

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

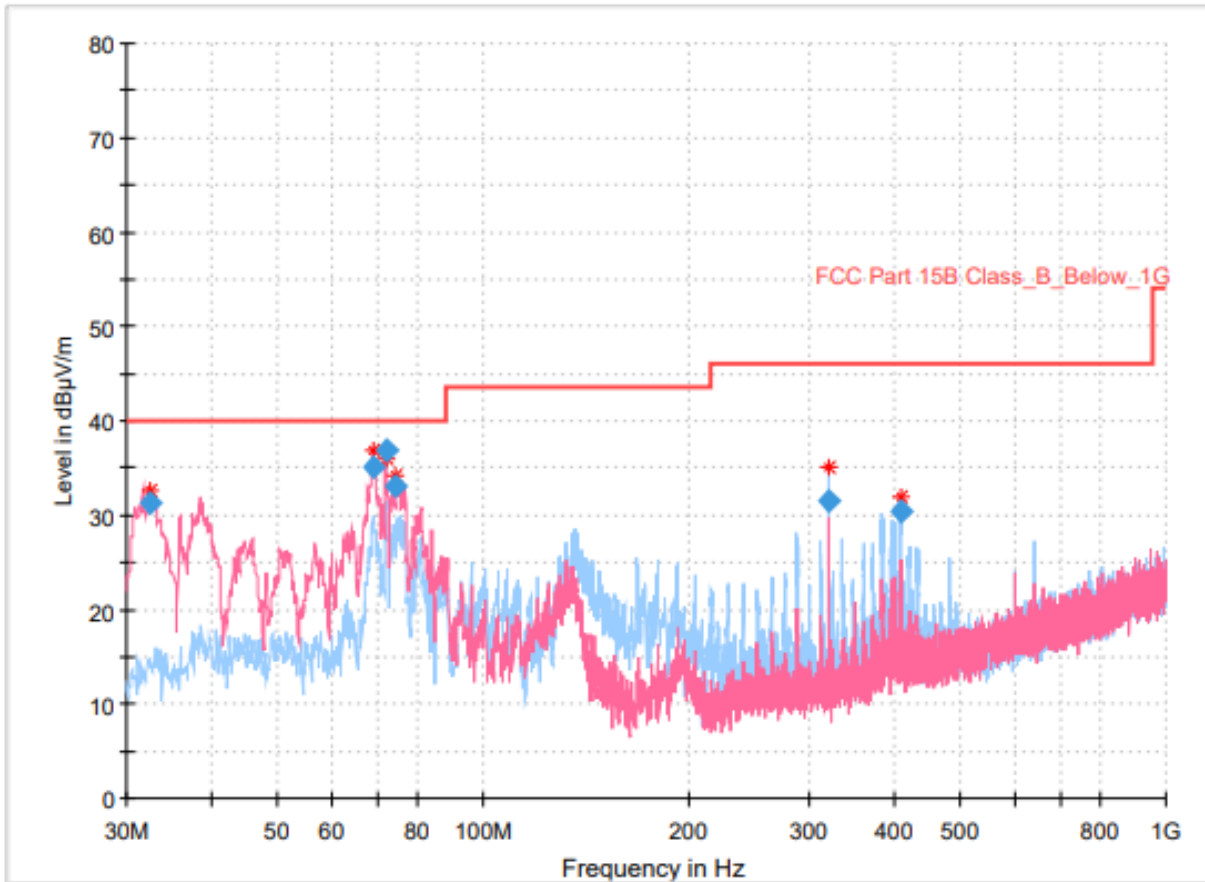
9.4.2.3 Measurement Results for Below 1 GHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.188000	35.72	40.00	4.28	1000.0	120.000	100.0	V	313.0	-23.2
72.001000	35.50	40.00	4.50	1000.0	120.000	100.0	V	247.0	-24.3
75.396000	34.02	40.00	5.98	1000.0	120.000	100.0	V	208.0	-25.6
137.088000	25.82	43.50	17.68	1000.0	120.000	100.0	H	184.0	-24.7
319.933000	31.54	46.00	14.46	1000.0	120.000	100.0	H	25.0	-17.8
408.203000	32.29	46.00	13.71	1000.0	120.000	100.0	H	105.0	-15.3

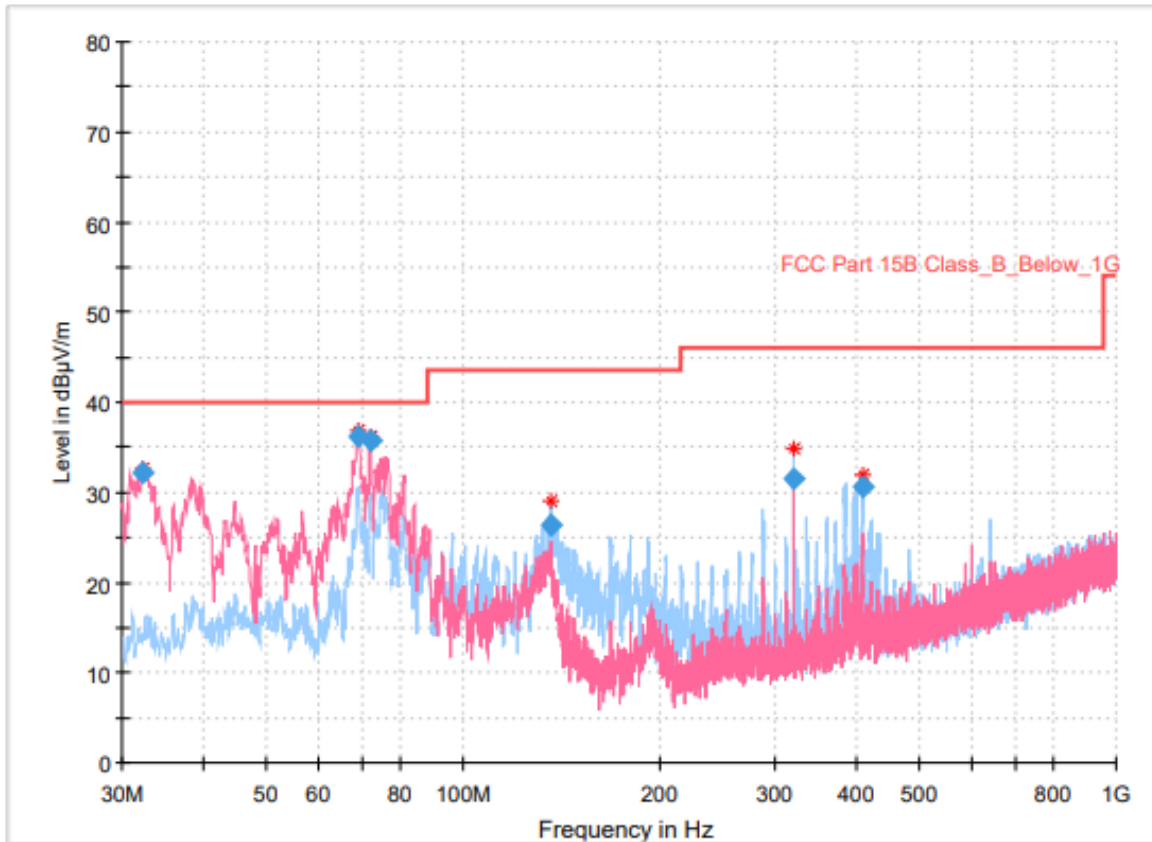
Low



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.425000	31.30	40.00	8.70	1000.0	120.000	100.0	V	116.0	-24.7
69.188000	35.09	40.00	4.91	1000.0	120.000	100.0	V	261.0	-23.2
72.001000	36.86	40.00	3.14	1000.0	120.000	100.0	V	195.0	-24.3
74.620000	33.03	40.00	6.97	1000.0	120.000	100.0	V	208.0	-25.3
319.933000	31.54	46.00	14.46	1000.0	120.000	100.0	H	25.0	-17.8
408.494000	30.44	46.00	15.56	1000.0	120.000	100.0	H	93.0	-15.3

Mid



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	32.18	40.00	7.82	1000.0	120.000	100.0	V	146.0	-24.7
69.188000	36.09	40.00	3.91	1000.0	120.000	100.0	V	202.0	-23.2
72.001000	35.77	40.00	4.23	1000.0	120.000	100.0	V	175.0	-24.3
136.118000	26.45	43.50	17.05	1000.0	120.000	100.0	H	185.0	-24.7
319.933000	31.52	46.00	14.48	1000.0	120.000	100.0	H	25.0	-17.8
408.009000	30.73	46.00	15.27	1000.0	120.000	100.0	H	309.0	-15.3

High



9.4.2.4 Measurement Results for Above 1 GHz

Frequency (MHz)	Detector	Ant. Pol. (H/V)	Reading (dBμV)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 823.68	Peak	V	52.56	-3.30	55.86	73.98	18.12
	Average	V	47.10		50.40	53.98	3.58
5 999.51	Peak	V	49.81	-1.70	51.51	73.98	22.47
	Average	V	42.09		43.79	53.98	10.19
7 238.20	Peak	V	48.20	0.90	47.30	73.98	26.68
	Average	V	34.56		33.66	53.98	20.32
9 649.89	Peak	H	52.71	3.90	48.81	73.98	25.17
	Average	H	39.59		35.69	53.98	18.29
Mid CH							
4 874.30	Peak	V	48.03	-3.80	51.83	73.98	22.15
	Average	V	41.65		45.45	53.98	8.53
5 999.70	Peak	V	45.52	-2.40	47.92	73.98	26.06
	Average	V	38.96		41.36	53.98	12.62
7 329.10	Peak	V	41.73	0.40	41.33	73.98	32.65
	Average	V	28.62		28.22	53.98	25.76
9 748.20	Peak	V	47.34	3.40	43.94	73.98	30.04
	Average	V	33.62		30.22	53.98	23.76



High CH							
4 923.60	Peak	V	51.61	-3.60	55.21	73.98	18.77
	Average	V	45.89		49.49	53.98	4.49
5 999.70	Peak	V	43.77	-2.40	46.17	73.98	27.81
	Average	V	36.55		38.95	53.98	15.03
7 378.40	Peak	H	42.28	0.50	41.78	73.98	32.20
	Average	H	28.86		28.36	53.98	25.62
9 848.50	Peak	H	47.28	3.60	43.68	73.98	30.30
	Average	H	33.73		30.13	53.98	23.85

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result

**9.4.3 Measurement Result for 802.11n (HT20)****9.4.3.1 Measurement Results for Restricted Band**

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 389.64	51.94	Peak	H	-14.70	66.64	73.98	7.34
	36.79	Average	H		51.49	53.98	2.49
High CH							
2 484.28	50.55	Peak	H	-14.50	65.05	73.98	8.93
	34.07	Average	H		48.57	53.98	5.41

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

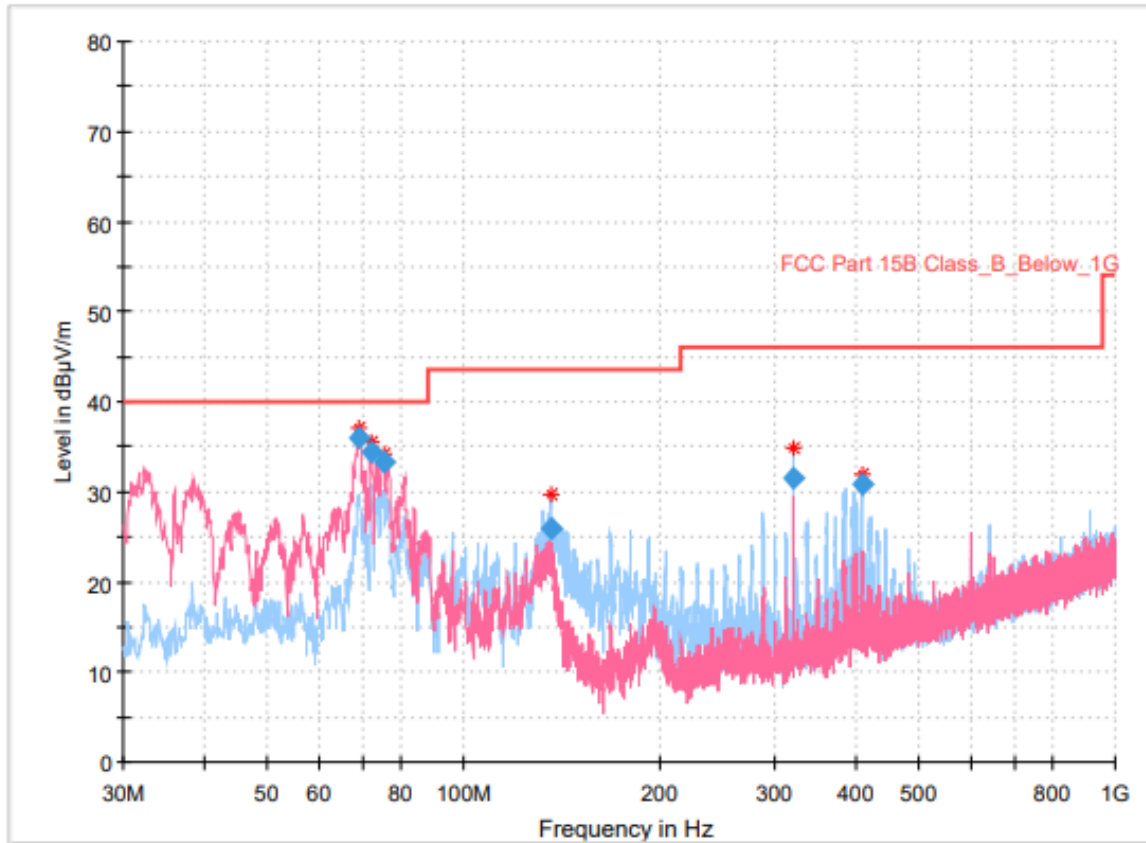
※ Result = Reading + Corr. Factor

※ Margin = Limit - Result

9.4.3.2 Measurement Results for Below 30 MHz

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

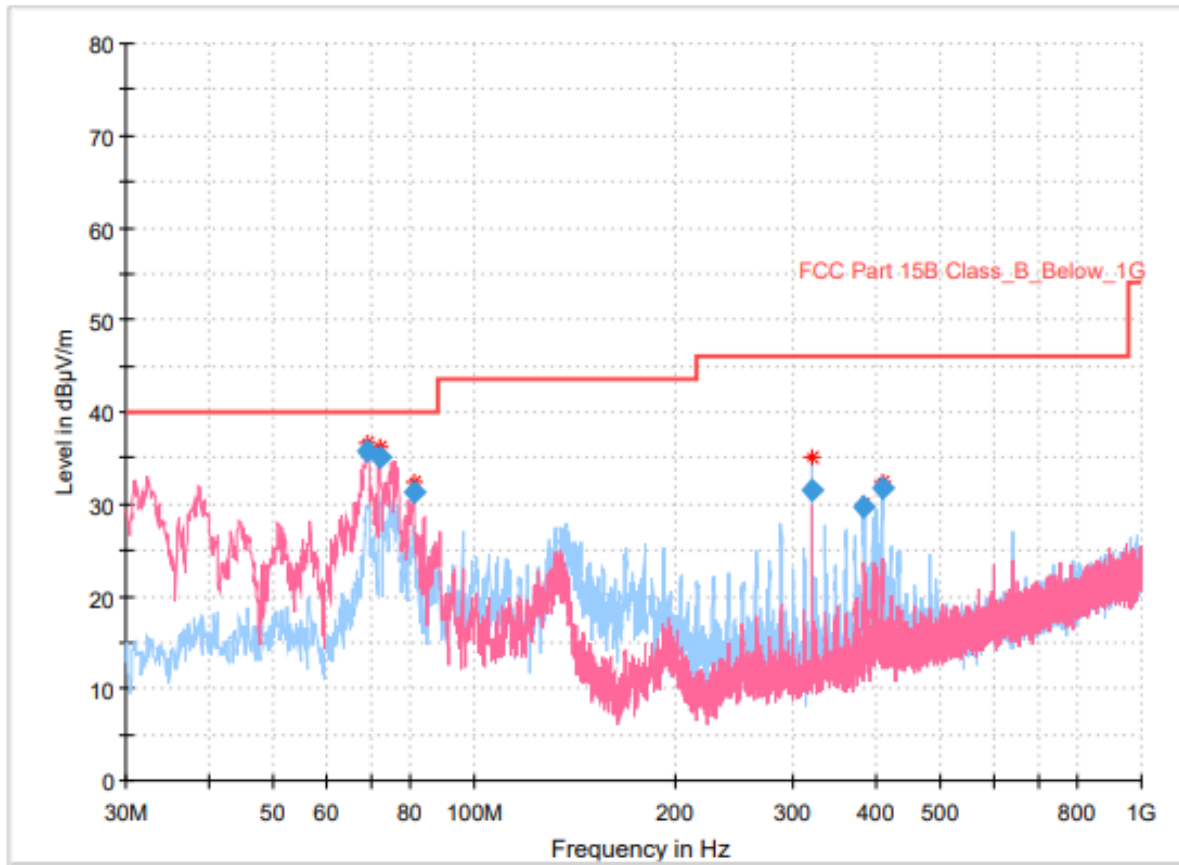
9.4.3.3 Measurement Results for Below 1 GHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.188000	36.01	40.00	3.99	1000.0	120.000	100.0	V	194.0	-23.2
72.098000	34.46	40.00	5.54	1000.0	120.000	100.0	V	166.0	-24.3
75.299000	33.26	40.00	6.74	1000.0	120.000	100.0	V	209.0	-25.6
135.924000	25.84	43.50	17.66	1000.0	120.000	100.0	H	176.0	-24.6
319.933000	31.52	46.00	14.48	1000.0	120.000	100.0	H	25.0	-17.8
408.009000	30.75	46.00	15.25	1000.0	120.000	100.0	H	94.0	-15.3

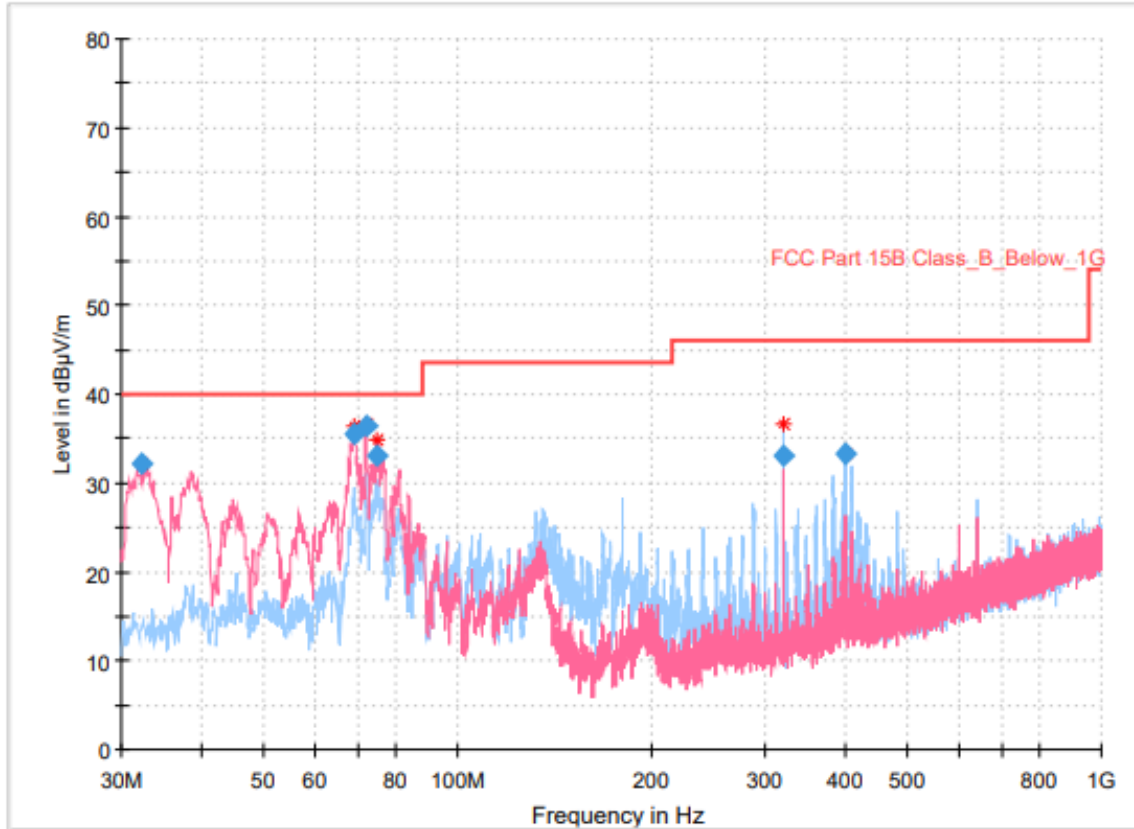
Low



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.188000	35.72	40.00	4.28	1000.0	120.000	100.0	V	161.0	-23.2
72.001000	35.00	40.00	5.00	1000.0	120.000	100.0	V	250.0	-24.3
81.216000	31.20	40.00	8.80	1000.0	120.000	100.0	V	188.0	-26.1
319.933000	31.52	46.00	14.48	1000.0	120.000	100.0	H	25.0	-17.8
383.953000	29.67	46.00	16.33	1000.0	120.000	100.0	H	101.0	-16.0
408.494000	31.63	46.00	14.37	1000.0	120.000	100.0	H	101.0	-15.3

Mid



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	32.19	40.00	7.81	1000.0	120.000	100.0	V	83.0	-24.7
69.188000	35.59	40.00	4.41	1000.0	120.000	100.0	V	199.0	-23.2
72.001000	36.48	40.00	3.52	1000.0	120.000	100.0	V	199.0	-24.3
74.814000	33.15	40.00	6.85	1000.0	120.000	100.0	V	179.0	-25.4
319.933000	33.08	46.00	12.92	1000.0	120.000	100.0	H	24.0	-17.8
399.958000	33.19	46.00	12.81	1000.0	120.000	100.0	H	104.0	-15.5

High



9.4.3.4 Measurement Results for Above 1 GHz

Frequency (MHz)	Detector	Ant. Pol. (H/V)	Reading (dBμV)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 819.90	Peak	V	46.63	-4.20	50.83	73.98	23.15
	Average	V	32.94		37.14	53.98	16.84
5 999.70	Peak	V	46.39	-2.40	48.79	73.98	25.19
	Average	V	40.27		42.67	53.98	11.31
7 237.30	Peak	V	42.35	0.30	42.05	73.98	31.93
	Average	V	28.58		28.28	53.98	25.70
9 644.50	Peak	H	47.21	3.30	43.91	73.98	30.07
	Average	H	33.79		30.49	53.98	23.49
Mid CH							
4 877.70	Peak	V	46.04	-3.80	49.84	73.98	24.14
	Average	V	32.42		36.22	53.98	17.76
5 999.70	Peak	V	47.19	-2.40	49.59	73.98	24.39
	Average	V	41.34		43.74	53.98	10.24
7 324.00	Peak	V	42.09	0.40	41.69	73.98	32.29
	Average	V	28.55		28.15	53.98	25.83
9 778.80	Peak	V	47.44	3.40	44.04	73.98	29.94
	Average	V	33.61		30.21	53.98	23.77



High CH							
4 937.20	Peak	V	46.38	-3.60	49.98	73.98	24.00
	Average	V	31.41		35.01	53.98	18.97
6 001.40	Peak	V	45.27	-2.40	47.67	73.98	26.31
	Average	V	27.12		29.52	53.98	24.46
7 422.60	Peak	H	42.46	0.60	41.86	73.98	32.12
	Average	H	28.61		28.01	53.98	25.97
9 887.60	Peak	H	47.74	3.60	44.14	73.98	29.84
	Average	H	33.63		30.03	53.98	23.95

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result

**9.4.4 Measurement Result for 802.11n (HT40)****9.4.4.1 Measurement Results for Restricted Band**

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 385.86	46.75	Peak	H	-14.70	61.45	73.98	12.53
	33.33	Average	H		48.03	53.98	5.95
High CH							
2 486.18	51.00	Peak	H	-14.40	65.40	73.98	8.58
	38.11	Average	H		52.51	53.98	1.47

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

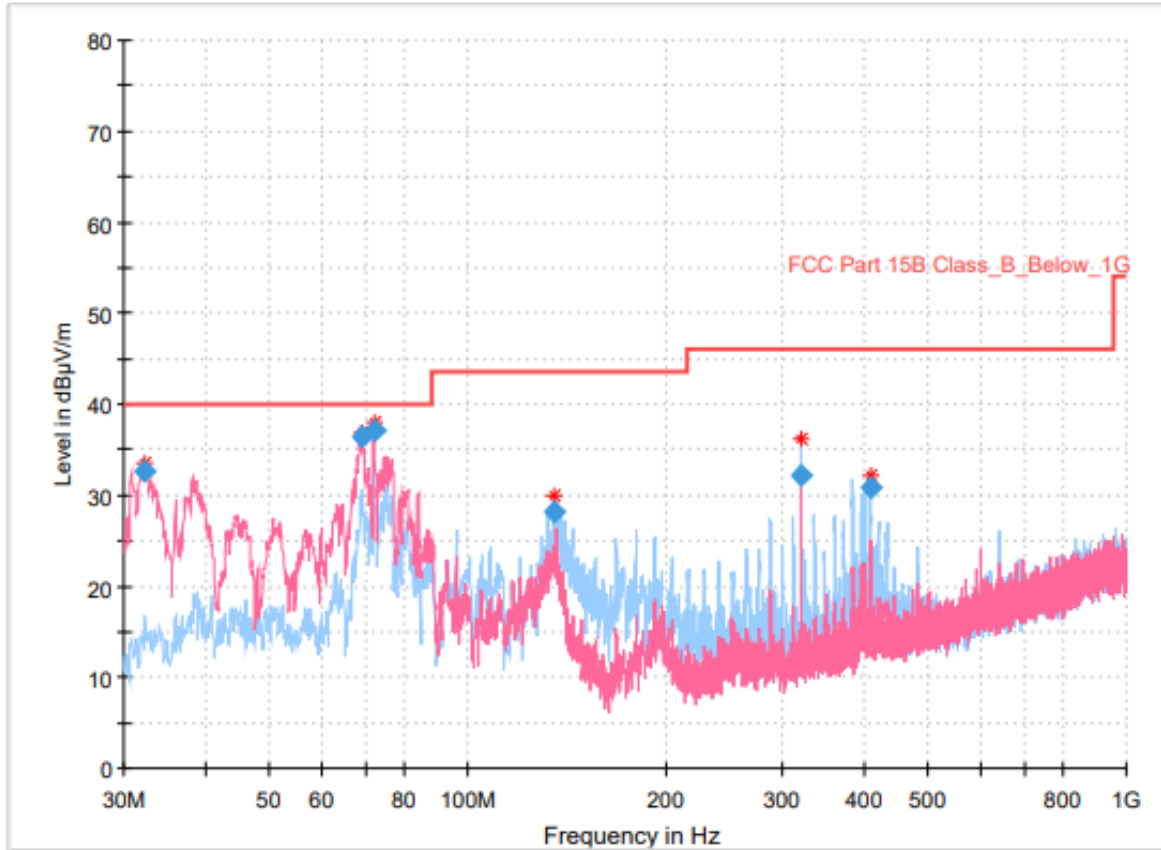
※ Result = Reading + Corr. Factor

※ Margin = Limit - Result

9.4.4.2 Measurement Results for Below 30 MHz

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							

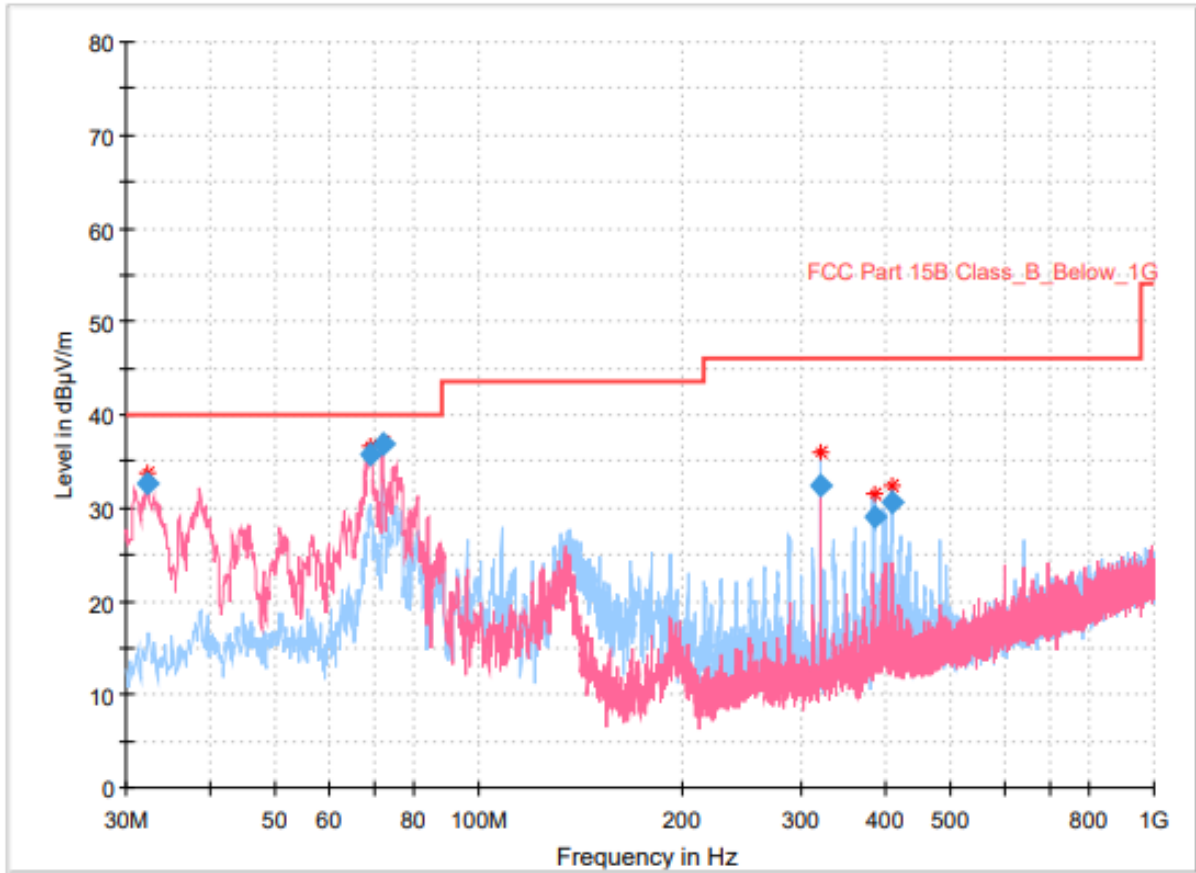
9.4.4.3 Measurement Results for Below 1 GHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	32.61	40.00	7.39	1000.0	120.000	100.0	V	81.0	-24.7
69.091000	36.51	40.00	3.49	1000.0	120.000	100.0	V	200.0	-23.1
72.001000	37.14	40.00	2.86	1000.0	120.000	100.0	V	174.0	-24.3
135.439000	28.17	43.50	15.33	1000.0	120.000	100.0	H	202.0	-24.6
319.933000	32.24	46.00	13.76	1000.0	120.000	100.0	H	36.0	-17.8
408.397000	30.93	46.00	15.07	1000.0	120.000	100.0	H	320.0	-15.3

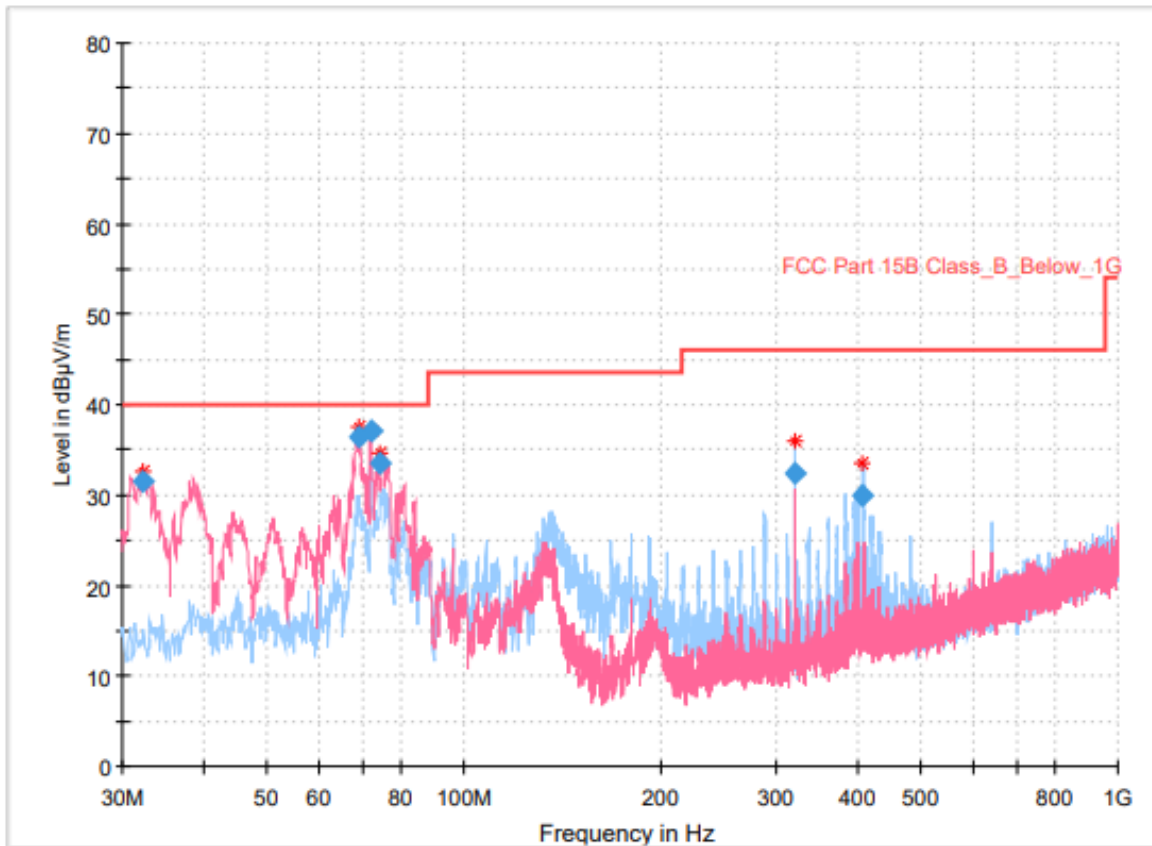
Low



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	32.63	40.00	7.37	1000.0	120.000	100.0	V	83.0	-24.7
69.091000	35.76	40.00	4.24	1000.0	120.000	100.0	V	334.0	-23.1
72.001000	36.92	40.00	3.08	1000.0	120.000	100.0	V	228.0	-24.3
319.933000	32.34	46.00	13.66	1000.0	120.000	100.0	H	24.0	-17.8
384.632000	29.09	46.00	16.91	1000.0	120.000	100.0	H	91.0	-16.0
408.203000	30.70	46.00	15.30	1000.0	120.000	100.0	H	91.0	-15.3

Mid



Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	31.50	40.00	8.50	1000.0	120.000	100.0	V	170.0	-24.7
69.188000	36.33	40.00	3.67	1000.0	120.000	100.0	V	196.0	-23.2
72.001000	37.05	40.00	2.95	1000.0	120.000	100.0	V	276.0	-24.3
74.620000	33.52	40.00	6.48	1000.0	120.000	100.0	V	210.0	-25.3
320.030000	32.39	46.00	13.61	1000.0	120.000	100.0	H	27.0	-17.8
407.815000	29.92	46.00	16.08	1000.0	120.000	100.0	H	95.0	-15.3

High



9.4.4.4 Measurement Results for Above 1 GHz

Frequency (MHz)	Detector	Ant. Pol. (H/V)	Reading (dBμV)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 853.90	Peak	V	43.10	-3.90	47.00	73.98	26.98
	Average	V	29.61		33.51	53.98	20.47
4 913.40	Peak	V	40.44	-3.70	44.14	73.98	29.84
	Average	V	22.77		26.47	53.98	27.51
5 999.70	Peak	V	44.16	-2.40	46.56	73.98	27.42
	Average	V	36.55		38.95	53.98	15.03
7 235.60	Peak	V	42.13	0.30	41.83	73.98	32.15
	Average	V	28.60		28.30	53.98	25.68
9 654.70	Peak	V	47.04	3.30	43.74	73.98	30.24
	Average	V	33.72		30.42	53.98	23.56
Mid CH							
4 921.90	Peak	V	42.25	-3.70	45.95	73.98	28.03
	Average	V	25.57		29.27	53.98	24.71
5 999.70	Peak	V	44.61	-2.40	47.01	73.98	26.97
	Average	V	37.30		39.70	53.98	14.28
7 252.60	Peak	V	41.80	0.30	41.50	73.98	32.48
	Average	V	28.34		28.04	53.98	25.94
9 773.70	Peak	H	46.94	3.40	43.54	73.98	30.44
	Average	H	33.58		30.18	53.98	23.80



High CH							
4 938.90	Peak	H	39.94	-3.60	43.54	73.98	30.44
	Average	H	22.22		25.82	53.98	28.16
5 999.70	Peak	V	47.61	-2.40	50.01	73.98	23.97
	Average	V	41.61		44.01	53.98	9.97
7 313.80	Peak	V	43.52	0.30	43.22	73.98	30.76
	Average	V	29.56		29.26	53.98	24.72
9 846.80	Peak	V	46.80	3.60	43.20	73.98	30.78
	Average	V	33.70		30.10	53.98	23.88

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result



9.4.5 Measurement Result for Bluetooth LE

9.4.5.1 Measurement Results for Restricted Band

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
2 342.38	55.66	Peak	H	-14.70	40.96	73.98	33.02
	35.29	Average	H		20.59	53.98	33.39
High CH							
2 484.47	72.15	Peak	H	-14.50	57.65	73.98	16.33
	37.87	Average	H		23.37	53.98	30.61

※ Ant. Pol. : Antenna Polarization

※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain

※ Result = Reading + Corr. Factor

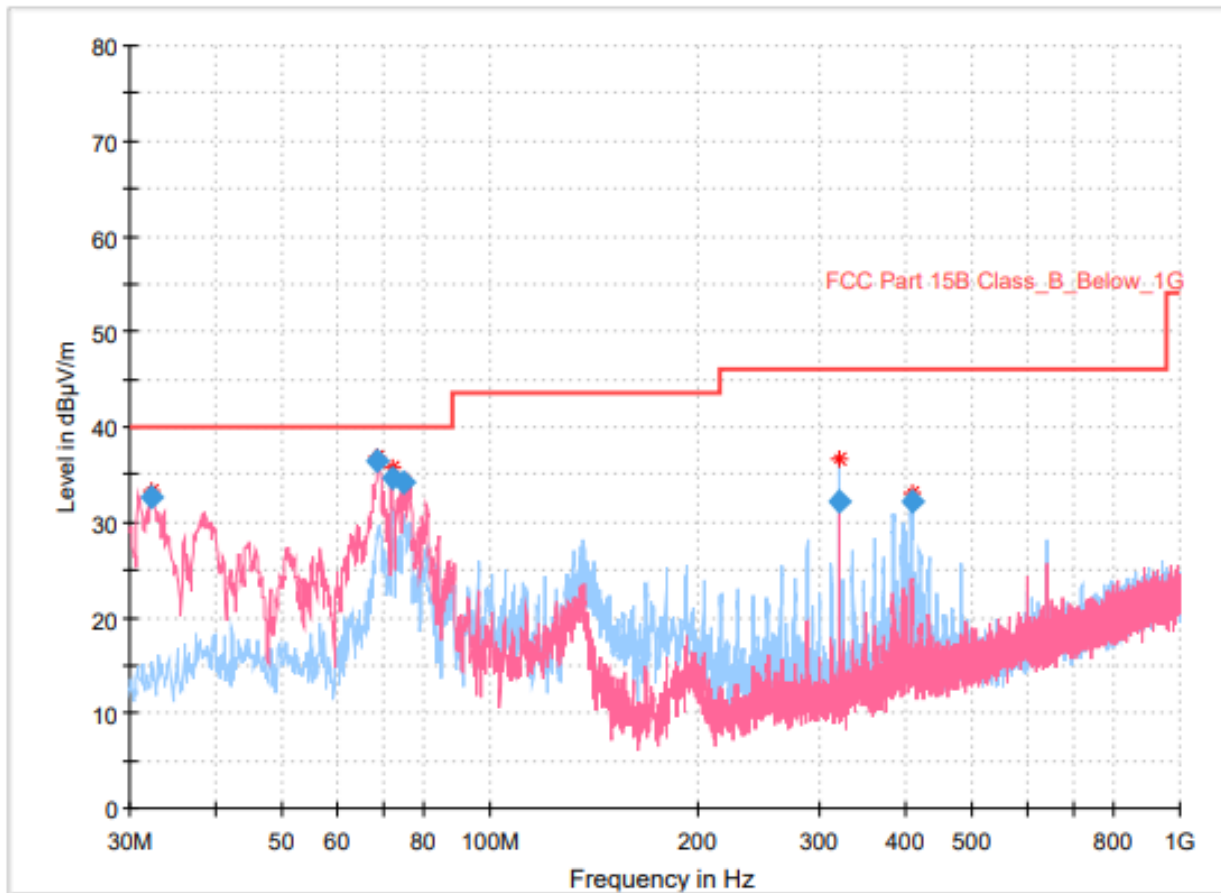
※ Margin = Limit - Result

9.4.5.2 Measurement Results for Below 30 MHz

Frequency (MHz)	Reading (dBμV)	Detector	Ant. Pol. (H/V)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
It was not found any emissions peaks found from the EUT.							
Mid CH							
It was not found any emissions peaks found from the EUT.							
High CH							
It was not found any emissions peaks found from the EUT.							



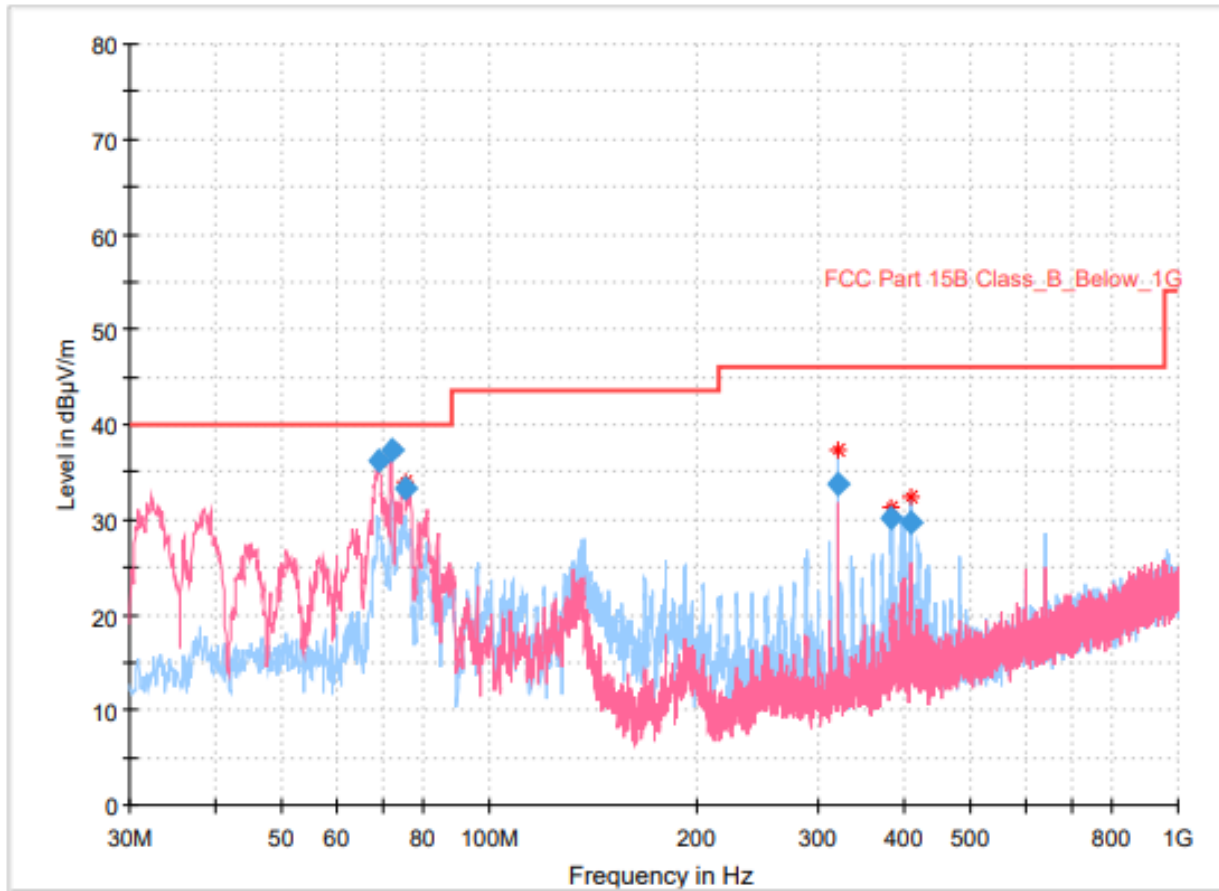
9.4.5.3 Measurement Results for Below 1 GHz



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
32.328000	32.59	40.00	7.41	1000.0	120.000	100.0	V	45.0	-24.7
68.800000	36.53	40.00	3.47	1000.0	120.000	100.0	V	321.0	-23.0
72.001000	34.60	40.00	5.40	1000.0	120.000	100.0	V	7.0	-24.3
75.202000	34.26	40.00	5.74	1000.0	120.000	100.0	V	168.0	-25.5
320.030000	32.20	46.00	13.80	1000.0	120.000	100.0	H	199.0	-17.8
408.397000	32.11	46.00	13.89	1000.0	120.000	100.0	H	106.0	-15.3

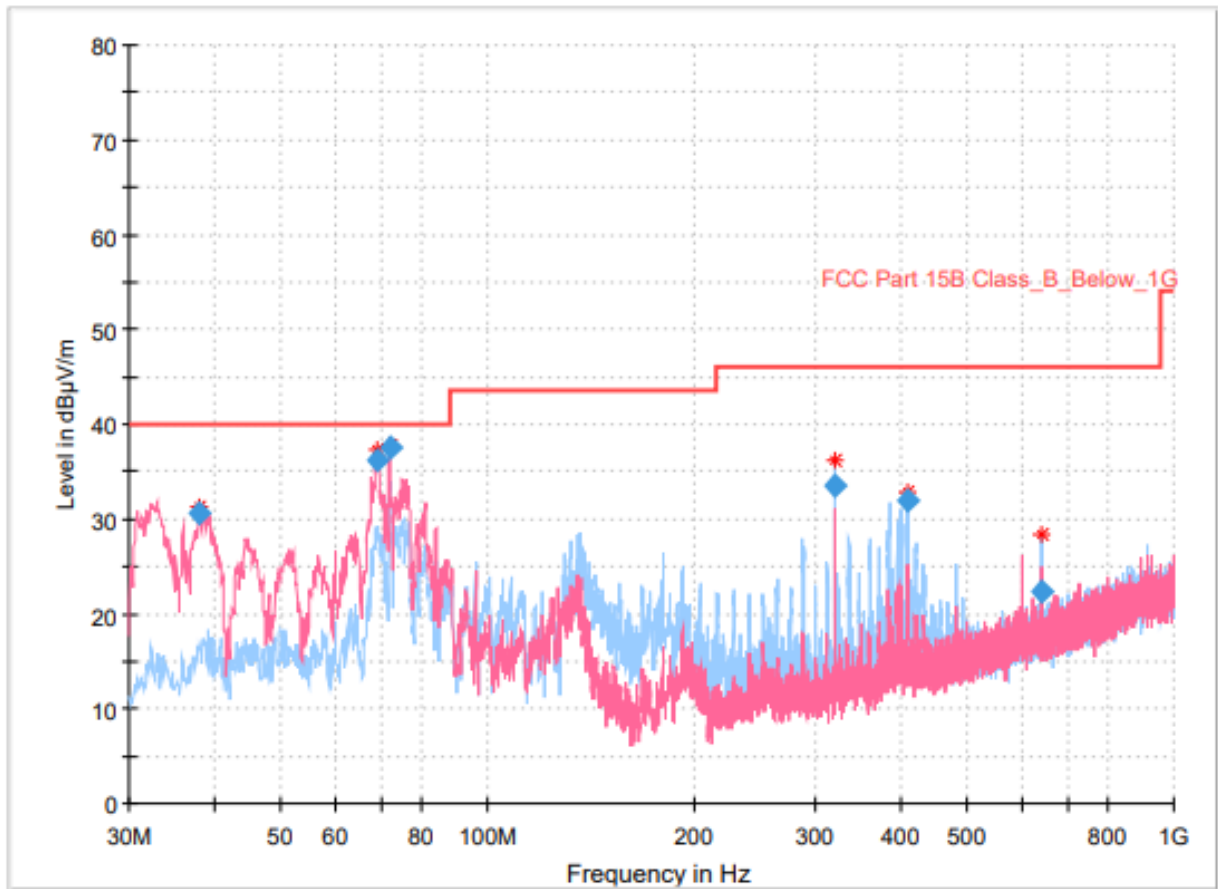
Low



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
69.091000	36.17	40.00	3.83	1000.0	120.000	100.0	V	186.0	-23.1
72.001000	37.22	40.00	2.78	1000.0	120.000	100.0	V	159.0	-24.3
75.299000	33.19	40.00	6.81	1000.0	120.000	100.0	V	159.0	-25.6
319.933000	33.65	46.00	12.35	1000.0	120.000	100.0	H	26.0	-17.8
384.244000	30.27	46.00	15.73	1000.0	120.000	100.0	H	96.0	-16.0
408.009000	29.76	46.00	16.24	1000.0	120.000	100.0	H	0.0	-15.3

Mid



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.051000	30.62	40.00	9.38	1000.0	120.000	100.0	V	102.0	-21.9
69.188000	36.11	40.00	3.89	1000.0	120.000	100.0	V	181.0	-23.2
72.001000	37.60	40.00	2.40	1000.0	120.000	100.0	V	181.0	-24.3
319.933000	33.54	46.00	12.46	1000.0	120.000	100.0	H	24.0	-17.8
408.494000	32.01	46.00	13.99	1000.0	120.000	100.0	H	104.0	-15.3
640.033000	22.24	46.00	23.76	1000.0	120.000	100.0	H	104.0	-11.4

High



9.4.5.4 Measurement Results for Above 1 GHz

Frequency (MHz)	Detector	Ant. Pol. (H/V)	Reading (dBμV)	Corr. Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low CH							
4 803.88	49.75	Peak	V	-3.50	46.25	73.98	27.73
	39.70	Average	V		36.20	53.98	17.78
5 999.86	51.59	Peak	V	-1.70	49.89	73.98	24.09
	45.94	Average	V		44.24	53.98	9.74
7 210.98	45.56	Peak	H	0.70	46.26	73.98	27.72
	32.03	Average	H		32.73	53.98	21.25
9 607.09	45.03	Peak	H	3.80	48.83	73.98	25.15
	31.81	Average	H		35.61	53.98	18.37
Mid CH							
4 879.54	49.30	Peak	V	-2.90	46.40	73.98	27.58
	39.43	Average	V		36.53	53.98	17.45
6 000.35	49.67	Peak	V	-1.70	47.97	73.98	26.01
	41.68	Average	V		39.98	53.98	14.00
7 327.78	45.70	Peak	V	1.00	46.70	73.98	27.28
	32.40	Average	V		33.40	53.98	20.58
9 766.14	45.41	Peak	V	4.00	49.41	73.98	24.57
	31.88	Average	V		35.88	53.98	18.10



High CH							
4 960.23	48.51	Peak	V	-2.70	45.81	73.98	28.17
	36.66	Average	V		33.96	53.98	20.02
5 999.44	52.87	Peak	V	-1.70	51.17	73.98	22.81
	44.25	Average	V		42.55	53.98	11.43
7 447.36	45.69	Peak	H	1.20	46.89	73.98	27.09
	31.71	Average	H		32.91	53.98	21.07
9 929.11	45.67	Peak	H	4.30	49.97	73.98	24.01
	31.82	Average	H		36.12	53.98	17.86

- ※ Ant. Pol. : Antenna Polarization
- ※ Corr. Factor. : Antenna Factor + Cable Loss - Amplifier Gain
- ※ Result = Reading + Corr. Factor
- ※ Margin = Limit - Result

- END -