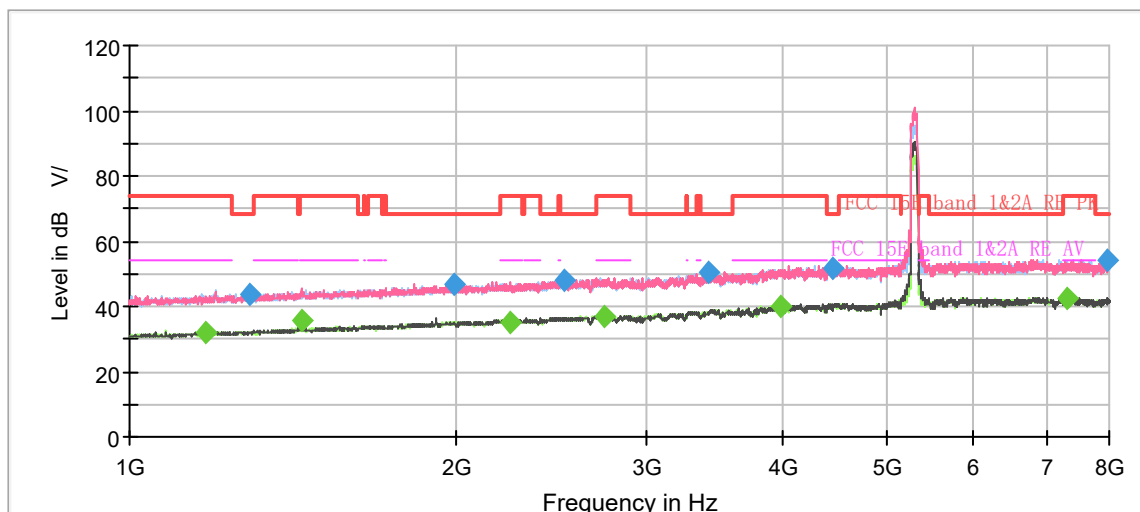
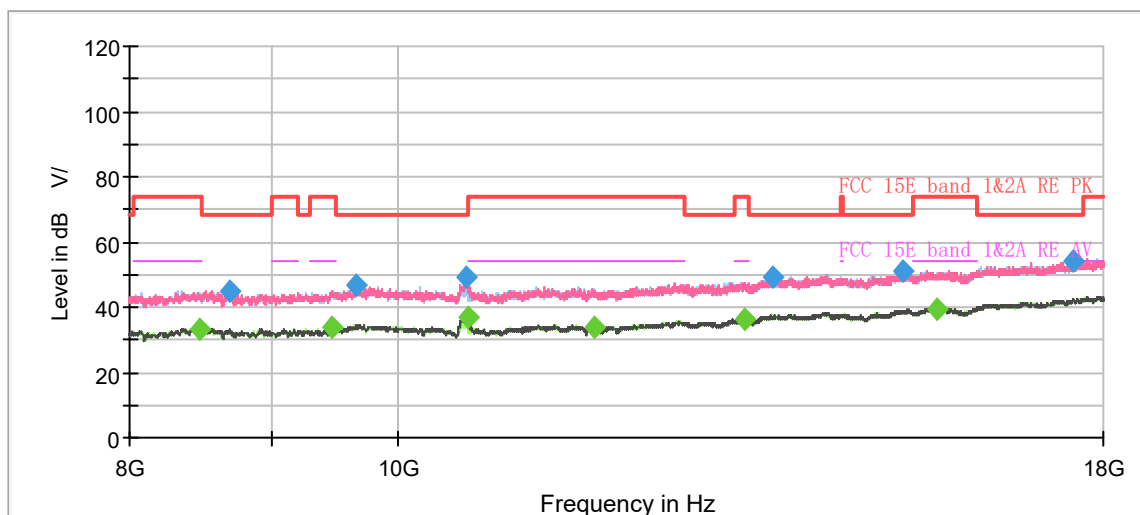


802.11ax (HE80) CH58



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



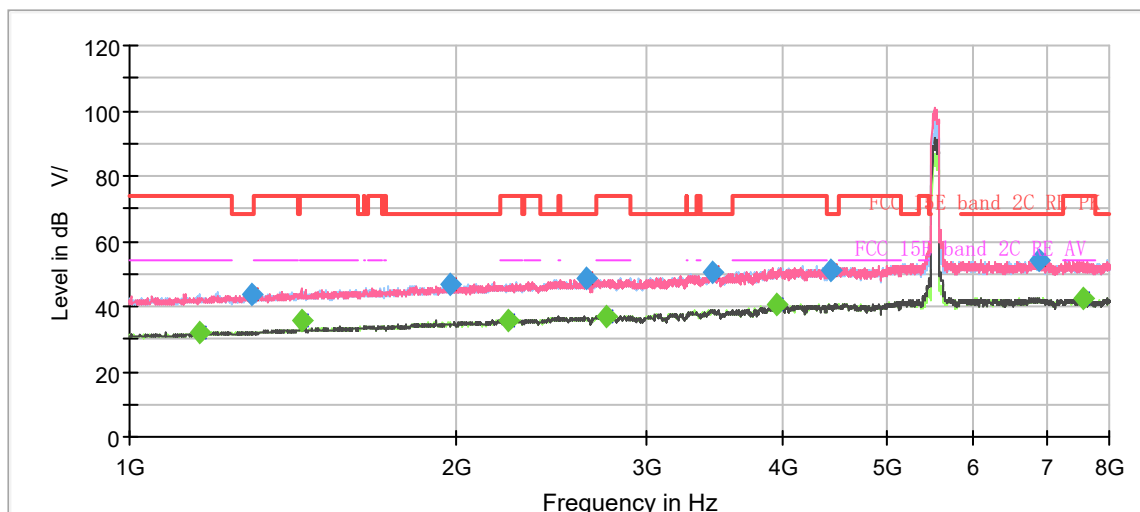
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1175.000000	---	31.77	54.00	22.23	500.0	200.0	H	59.0	-7.9
1288.750000	43.89	---	68.20	24.31	500.0	100.0	H	296.0	-7.2
1440.125000	---	35.39	54.00	18.61	500.0	100.0	V	143.0	-6.2
1992.250000	46.86	---	68.20	21.34	500.0	100.0	H	204.0	-3.5
2241.625000	---	35.19	54.00	18.81	500.0	100.0	H	142.0	-2.4
2513.750000	48.29	---	68.20	19.91	500.0	200.0	H	227.0	-1.1
2743.000000	---	37.09	54.00	16.91	500.0	200.0	H	150.0	-0.1
3416.750000	50.77	---	68.20	17.43	500.0	100.0	H	296.0	2.2
3986.375000	---	40.28	54.00	13.72	500.0	100.0	H	0.0	4.5
4445.750000	51.61	---	68.20	16.59	500.0	200.0	H	3.0	5.3
7304.375000	---	42.36	54.00	11.64	500.0	200.0	H	132.0	9.3
7959.750000	54.06	---	68.20	14.14	500.0	200.0	V	169.0	9.1

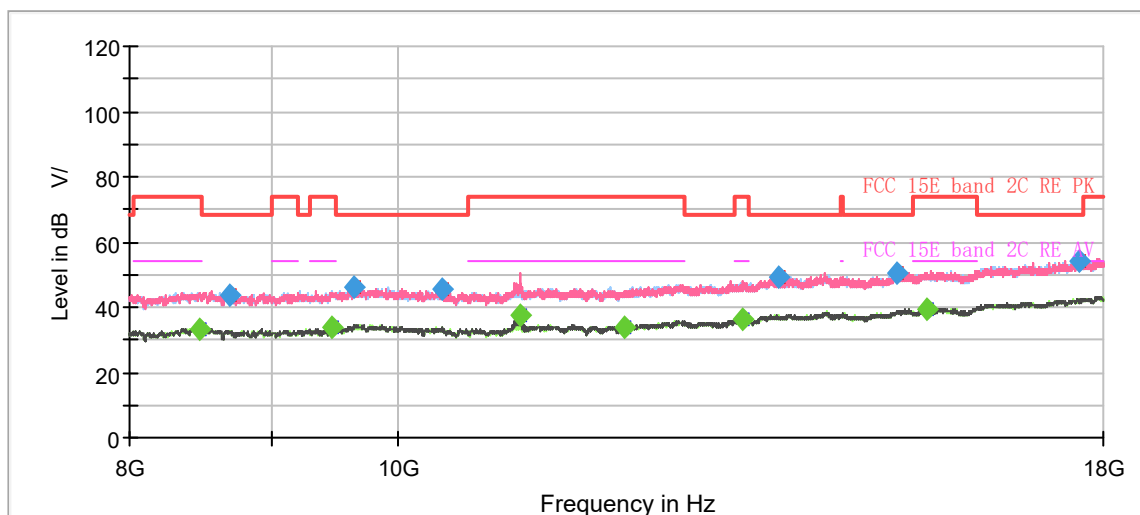
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ax (HE80) CH106



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



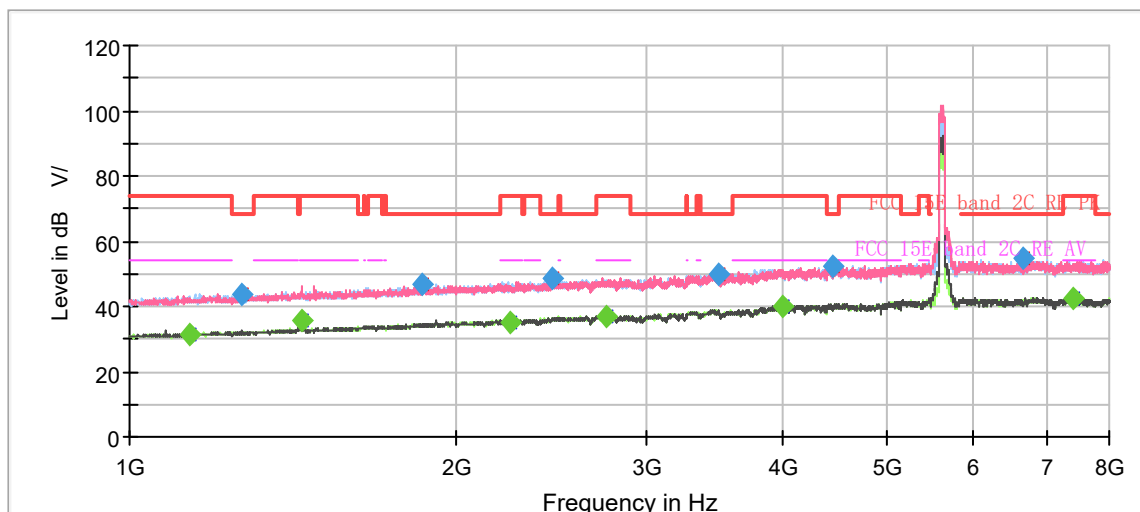
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1159.250000	---	31.85	54.00	22.15	500.0	200.0	H	216.0	-8.0
1294.875000	43.63	---	68.20	24.57	500.0	200.0	H	49.0	-7.2
1440.125000	---	35.46	54.00	18.54	500.0	100.0	V	147.0	-6.2
1978.250000	46.77	---	68.20	21.43	500.0	100.0	H	273.0	-3.5
2234.625000	---	35.72	54.00	18.28	500.0	200.0	H	95.0	-2.4
2636.250000	48.31	---	68.20	19.89	500.0	200.0	H	104.0	-0.5
2750.875000	---	37.10	54.00	16.90	500.0	200.0	H	25.0	-0.1
3443.000000	50.62	---	68.20	17.58	500.0	200.0	H	187.0	2.4
3957.500000	---	40.35	54.00	13.65	500.0	200.0	H	8.0	4.4
4438.750000	51.29	---	68.20	16.91	500.0	200.0	H	54.0	5.3
6899.250000	54.18	---	68.20	14.02	500.0	200.0	V	228.0	8.8
7567.750000	---	42.32	54.00	11.68	500.0	200.0	H	173.0	8.8

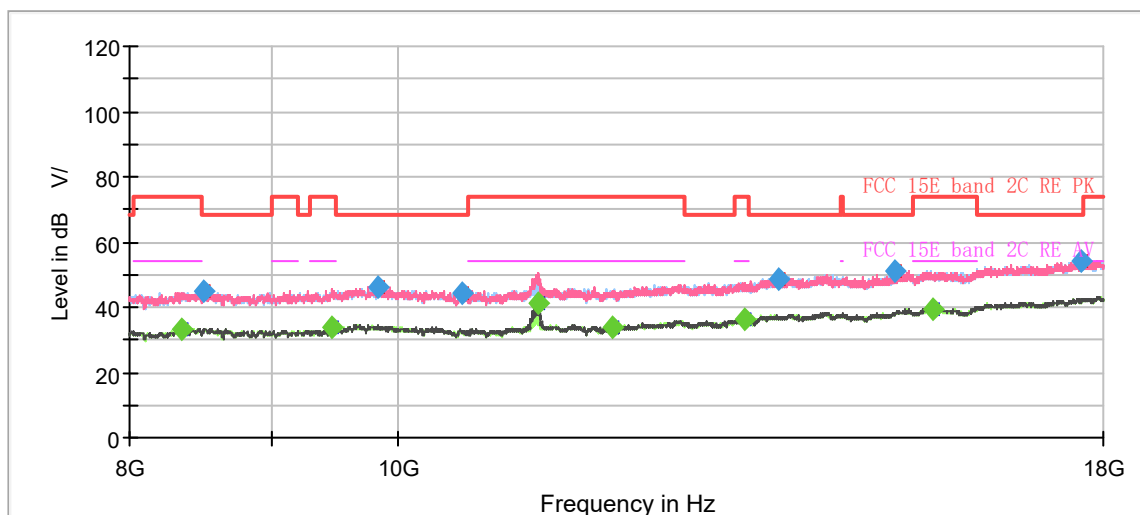
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ax (HE80) CH122



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



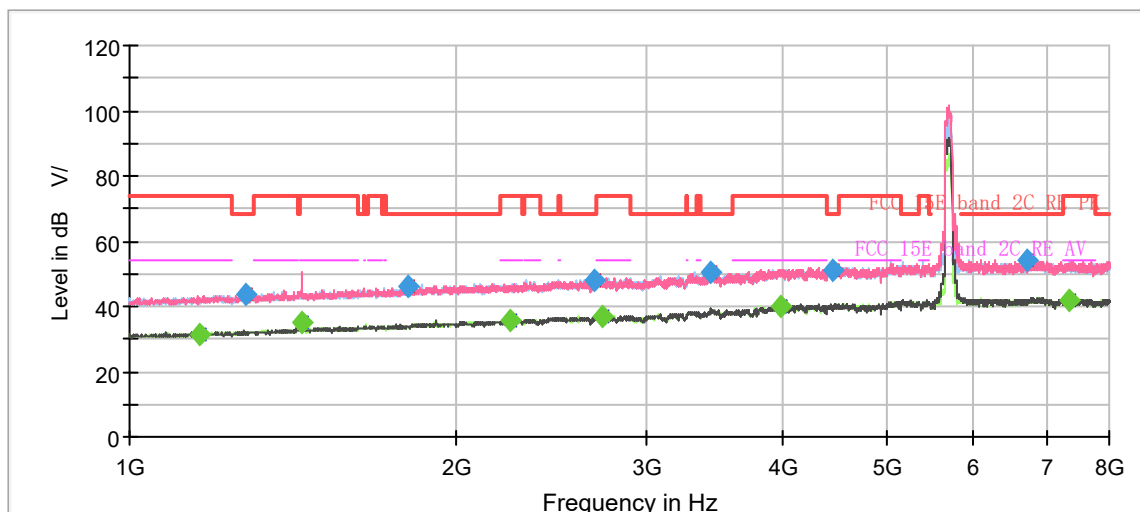
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1133.875000	---	31.42	54.00	22.58	500.0	200.0	H	145.0	-8.2
1270.375000	43.59	---	68.20	24.61	500.0	100.0	H	328.0	-7.3
1440.125000	---	35.86	54.00	18.14	500.0	100.0	V	86.0	-6.2
1860.125000	46.57	---	68.20	21.63	500.0	200.0	V	0.0	-4.1
2240.750000	---	35.03	54.00	18.97	500.0	100.0	H	323.0	-2.4
2457.750000	48.32	---	68.20	19.88	500.0	200.0	V	159.0	-1.3
2753.500000	---	37.10	54.00	16.90	500.0	200.0	V	226.0	-0.1
3495.500000	49.98	---	68.20	18.22	500.0	100.0	V	16.0	2.5
3997.750000	---	40.08	54.00	13.92	500.0	100.0	H	355.0	4.5
4441.375000	52.12	---	68.20	16.08	500.0	100.0	H	351.0	5.3
6656.000000	54.47	---	68.20	13.73	500.0	100.0	V	110.0	8.4
7417.250000	---	42.25	54.00	11.75	500.0	200.0	V	319.0	9.2

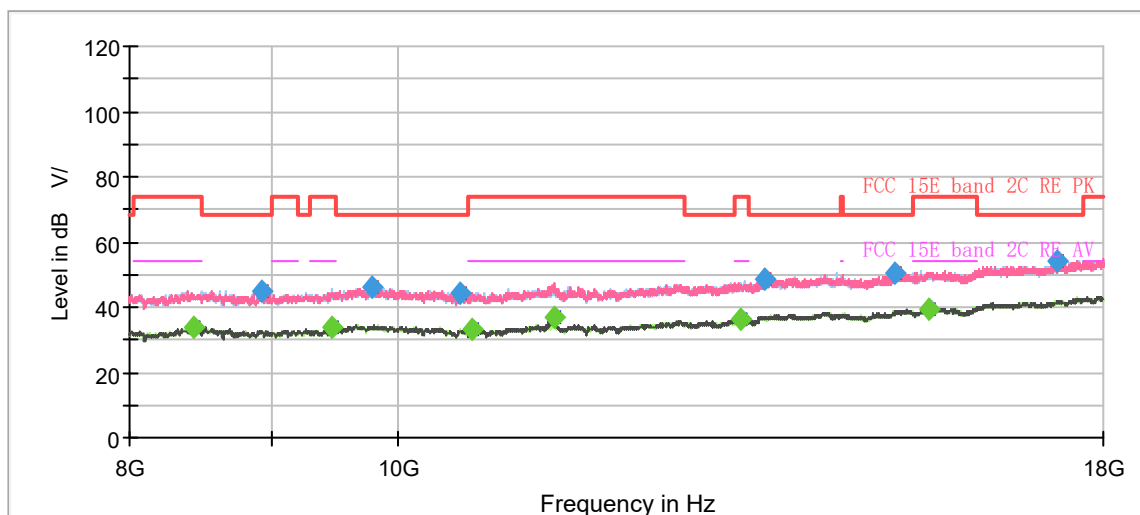
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ax (HE80) CH138



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



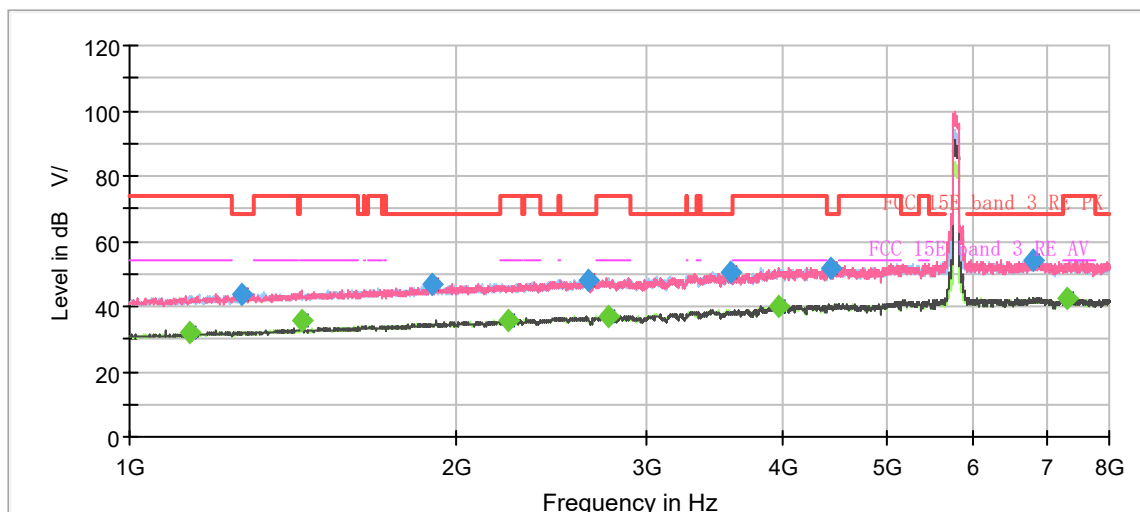
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1161.000000	---	31.48	54.00	22.52	500.0	100.0	H	61.0	-8.0
1280.000000	43.53	---	68.20	24.67	500.0	100.0	V	118.0	-7.3
1440.125000	---	35.27	54.00	18.73	500.0	100.0	V	17.0	-6.2
1803.250000	46.08	---	68.20	22.12	500.0	100.0	H	146.0	-4.4
2245.125000	---	35.50	54.00	18.50	500.0	200.0	V	147.0	-2.4
2680.000000	47.93	---	68.20	20.27	500.0	200.0	H	34.0	-0.2
2722.875000	---	37.04	54.00	16.96	500.0	100.0	H	0.0	-0.1
3425.500000	50.35	---	68.20	17.85	500.0	100.0	V	186.0	2.3
3980.250000	---	40.28	54.00	13.72	500.0	100.0	H	356.0	4.5
4439.625000	51.32	---	68.20	16.88	500.0	100.0	H	57.0	5.3
6719.875000	54.33	---	68.20	13.87	500.0	100.0	H	328.0	8.6
7344.625000	---	42.15	54.00	11.85	500.0	200.0	H	170.0	9.3

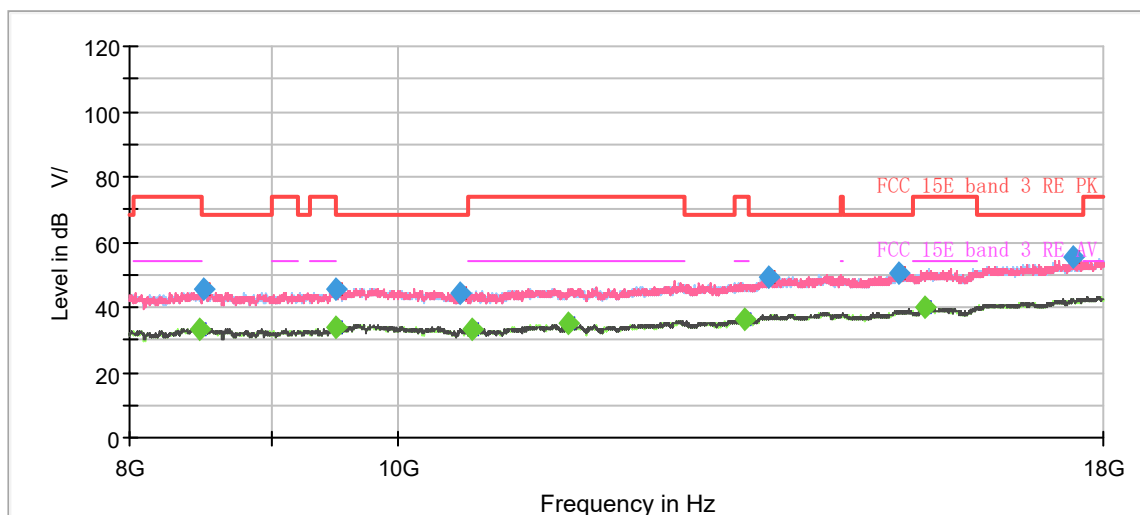
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ax (HE80) CH155



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



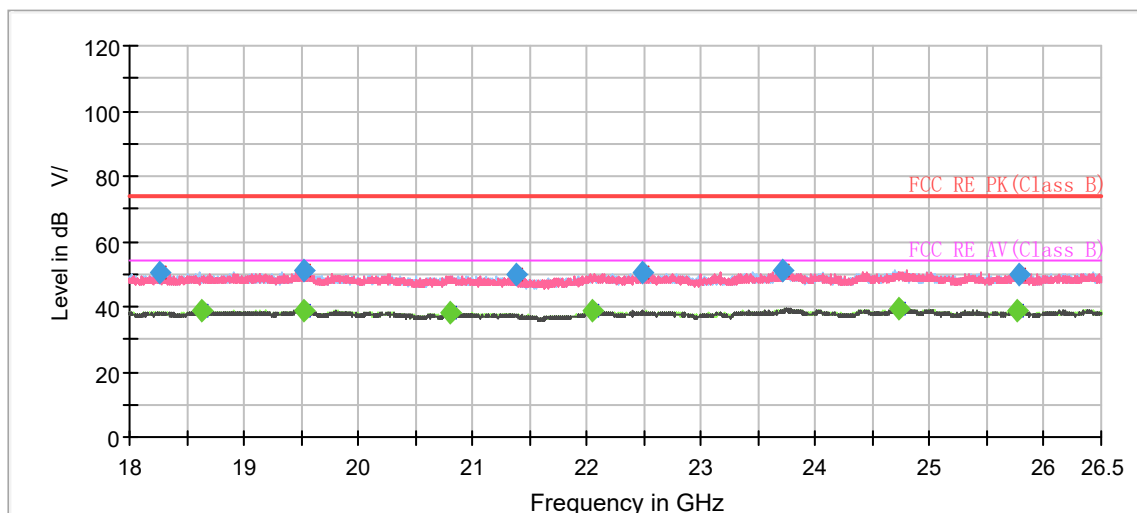
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1135.625000	---	31.83	54.00	22.17	500.0	200.0	V	258.0	-8.2
1266.875000	43.73	---	68.20	24.47	500.0	100.0	V	18.0	-7.4
1440.125000	---	35.41	54.00	18.59	500.0	100.0	V	145.0	-6.2
1896.875000	46.95	---	68.20	21.25	500.0	100.0	H	267.0	-3.9
2237.250000	---	35.71	54.00	18.29	500.0	200.0	H	348.0	-2.4
2644.125000	48.15	---	68.20	20.05	500.0	200.0	H	13.0	-0.4
2765.750000	---	36.87	54.00	17.13	500.0	100.0	V	154.0	-0.1
3579.500000	50.33	---	68.20	17.87	500.0	100.0	H	220.0	2.7
3966.250000	---	40.25	54.00	13.75	500.0	200.0	H	131.0	4.5
4438.750000	51.61	---	68.20	16.59	500.0	200.0	V	243.0	5.3
6820.500000	54.12	---	68.20	14.08	500.0	100.0	H	291.0	8.7
7305.250000	---	42.31	54.00	11.69	500.0	200.0	V	184.0	9.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

During the test, the Radiates Emission from 18GHz to 40GHz was performed in all modes with all channels, 802.11ax HE20, Channel 120 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

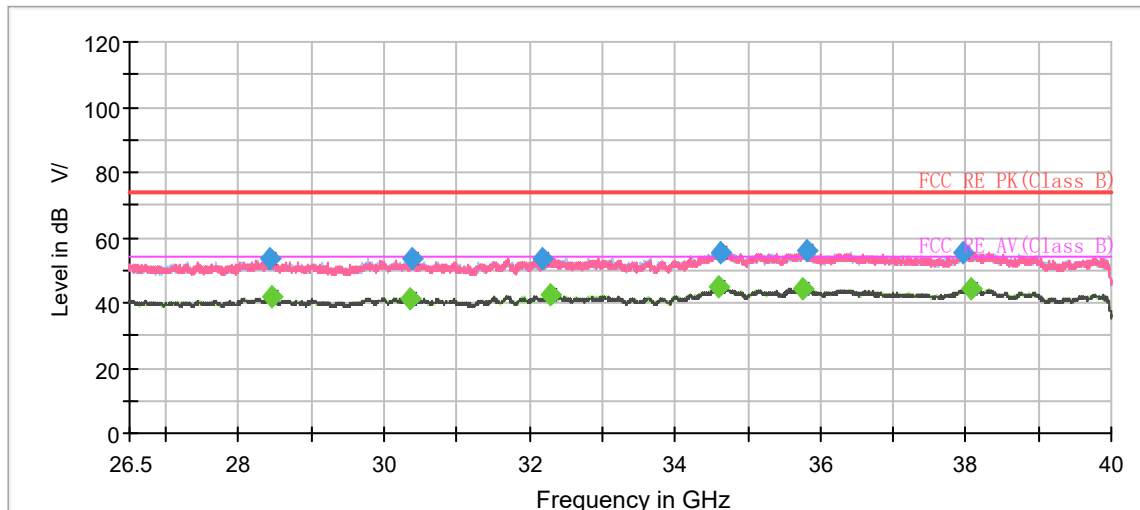


Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18263.500000	50.57	---	74.00	23.43	500.0	200.0	H	55.0	-5.8
18633.250000	---	38.73	54.00	15.27	500.0	200.0	H	144.0	-5.6
19525.750000	51.04	---	74.00	22.96	500.0	100.0	V	47.0	-5.3
19528.937500	---	39.06	54.00	14.94	500.0	200.0	H	2.0	-5.3
20806.062500	---	38.29	54.00	15.71	500.0	100.0	H	242.0	-5.1
21386.187500	50.03	---	74.00	23.97	500.0	200.0	V	217.0	-5.3
22046.000000	---	38.81	54.00	15.19	500.0	200.0	H	164.0	-4.2
22480.562500	50.45	---	74.00	23.55	500.0	200.0	V	252.0	-3.9
23715.187500	51.13	---	74.00	22.87	500.0	100.0	H	315.0	-2.4
24726.687500	---	39.36	54.00	14.64	500.0	200.0	V	65.0	-2.1
25757.312500	---	38.96	54.00	15.04	500.0	200.0	V	153.0	-2.6
25788.125000	49.87	---	74.00	24.13	500.0	200.0	H	102.0	-2.6

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit-MAX Peak/ Average



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
28423.750000	53.34	---	74.00	20.66	500.0	200.0	V	354.0	0.1
28452.437500	---	41.67	54.00	12.33	500.0	100.0	H	345.0	0.1
30350.875000	---	41.00	54.00	13.00	500.0	100.0	H	165.0	-0.6
30391.375000	53.73	---	74.00	20.27	500.0	200.0	V	133.0	-0.6
32186.875000	53.83	---	74.00	20.17	500.0	200.0	V	284.0	-1.3
32276.312500	---	42.24	54.00	11.76	500.0	200.0	H	102.0	-1.2
34603.375000	---	44.67	54.00	9.33	500.0	100.0	H	280.0	2.9
34627.000000	55.68	---	74.00	18.32	500.0	200.0	V	304.0	2.9
35761.000000	---	44.36	54.00	9.64	500.0	200.0	H	48.0	3.2
35808.250000	55.93	---	74.00	18.07	500.0	200.0	V	330.0	3.2
37953.062500	55.60	---	74.00	18.40	500.0	100.0	H	320.0	3.5
38064.437500	---	44.13	54.00	9.87	500.0	200.0	H	221.0	3.8

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit-MAX Peak/ Average

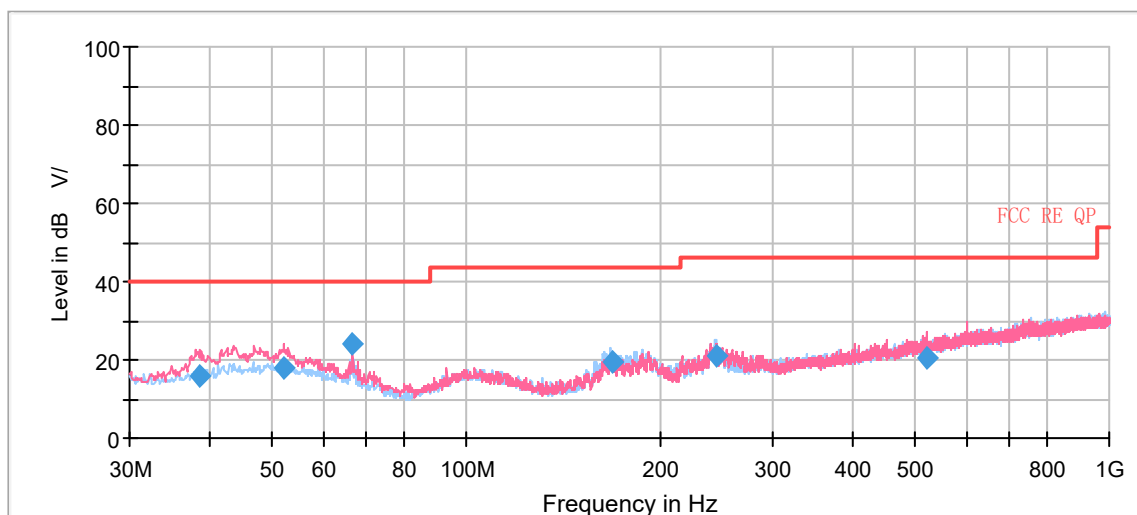
TB Mode

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ax HE20 26Tone CH36 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A symbol (dB V/) in the test plot below means (dBμV/m)

A symbol (dBμV/m) in the test plot below means (dBμV/m)

Continuous TX mode:



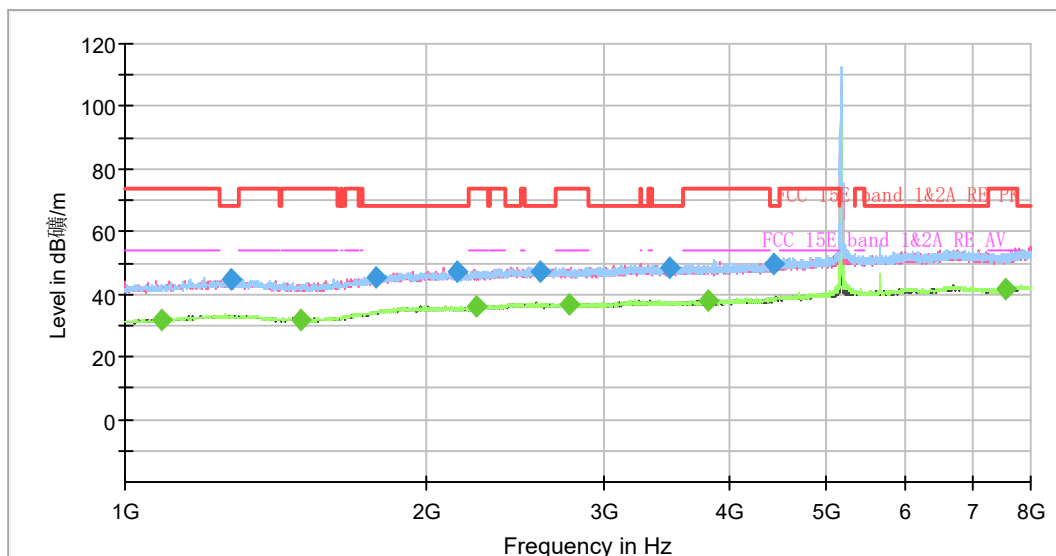
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
38.562500	15.86	40.00	24.14	175.0	V	0.0	19.0
52.027500	18.10	40.00	21.90	100.0	V	319.0	20.4
66.657500	24.30	40.00	15.70	100.0	V	144.0	17.4
168.582500	19.29	43.50	24.21	175.0	H	259.0	15.6
244.890000	21.18	46.00	24.82	125.0	H	68.0	19.7
520.011250	20.26	46.00	25.74	116.0	V	181.0	25.1

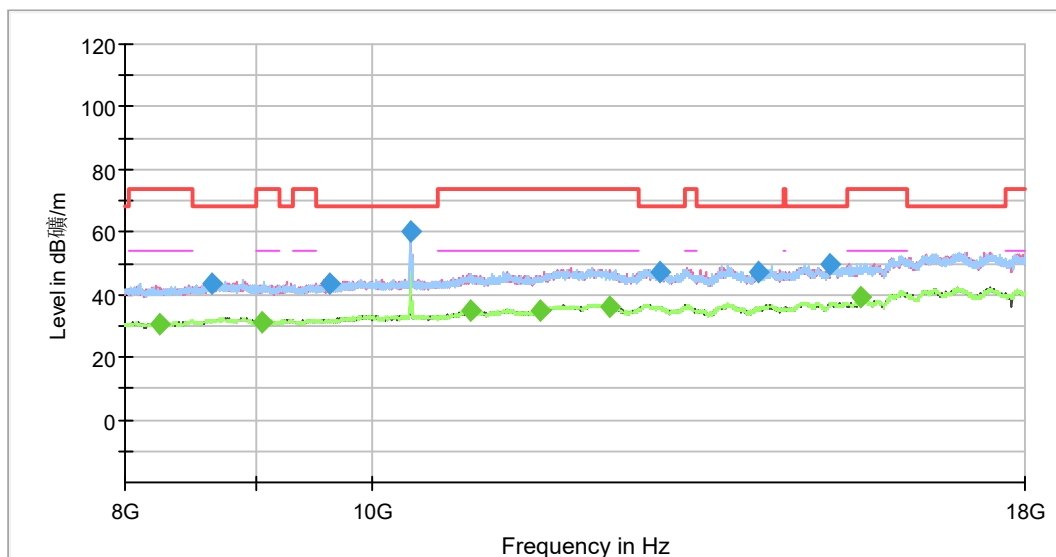
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak

802.11ax HE20 26Tone CH36



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



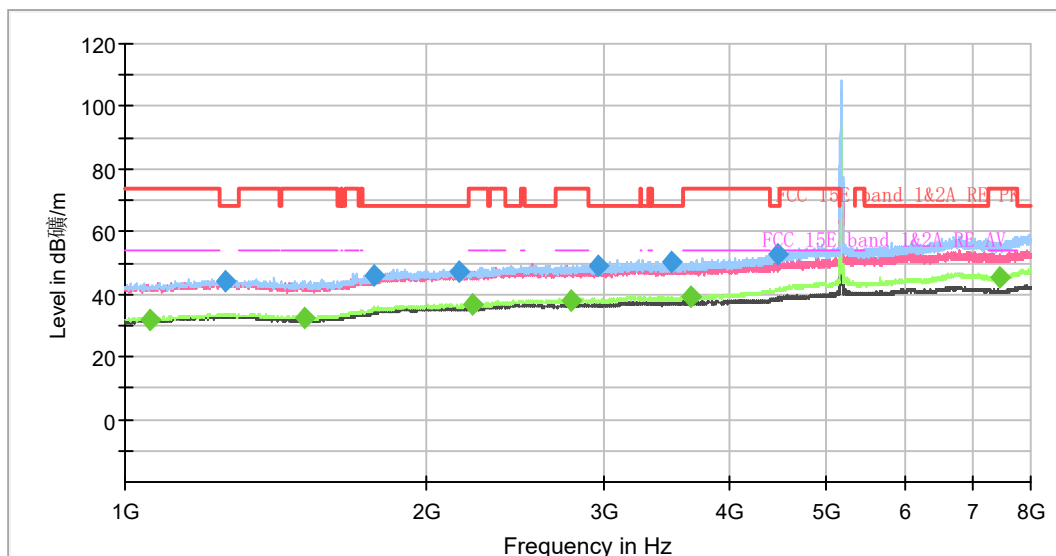
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1086.625000	---	31.53	54.00	22.47	200.0	V	126.0	-1.4
1275.625000	44.81	---	68.20	23.39	100.0	H	290.0	0.3
1497.875000	---	31.81	54.00	22.19	100.0	H	151.0	-0.1
1777.000000	45.56	---	68.20	22.64	200.0	V	0.0	2.6
2144.500000	47.29	---	68.20	20.91	100.0	H	0.0	4.2
2246.000000	---	35.92	54.00	18.08	100.0	H	250.0	4.6
2599.500000	47.52	---	68.20	20.68	200.0	V	357.0	5.6
2774.500000	---	36.68	54.00	17.32	100.0	H	250.0	5.9
3485.000000	48.57	---	68.20	19.63	100.0	V	86.0	7.4
3821.875000	---	37.76	54.00	16.24	100.0	V	86.0	8.0
4439.625000	49.98	---	68.20	18.22	100.0	H	0.0	9.6
7547.625000	---	41.52	54.00	12.48	100.0	H	0.0	14.0
10341.250000	60.13	---	68.20	8.07	100.0	H	127.0	7.4

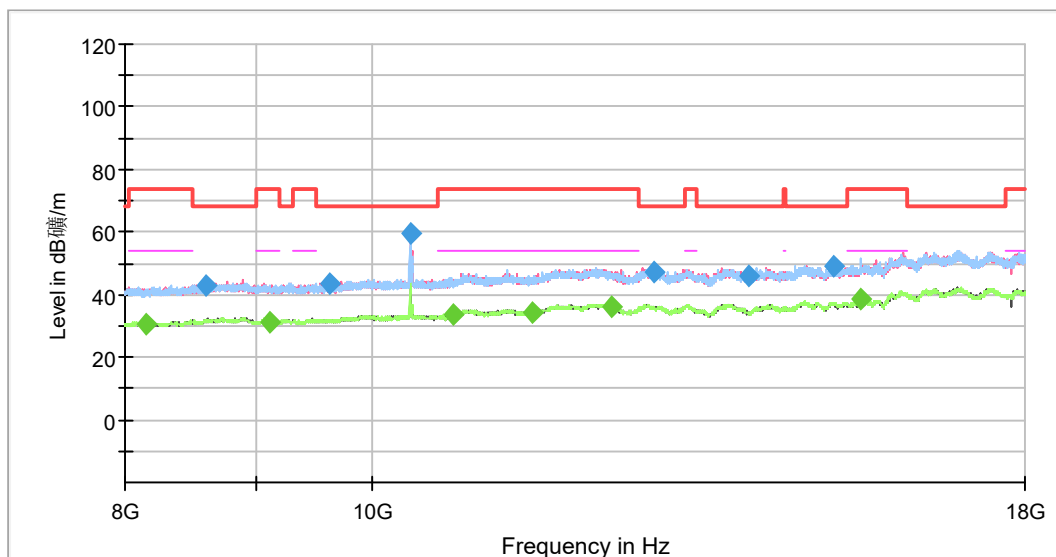
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ax HE20 52Tone CH36



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



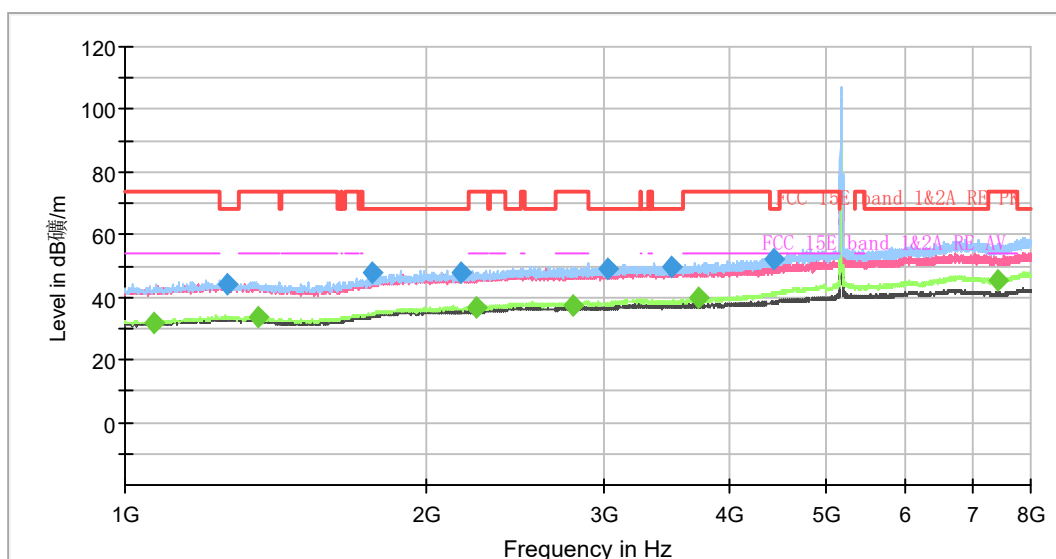
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1059.500000	---	32.02	54.00	21.98	200.0	H	161.0	-1.5
1260.750000	44.30	---	68.20	23.90	200.0	H	79.0	0.3
1511.875000	---	32.50	54.00	21.50	200.0	H	0.0	-0.1
1771.750000	46.05	---	68.20	22.15	100.0	V	1.0	2.6
2149.750000	47.42	---	68.20	20.78	100.0	V	0.0	4.2
2224.125000	---	36.78	54.00	17.22	200.0	H	161.0	4.4
2784.125000	---	38.10	54.00	15.90	200.0	H	161.0	5.9
2957.375000	49.00	---	68.20	19.20	200.0	H	6.0	6.3
3507.750000	50.26	---	68.20	17.94	200.0	H	98.0	7.4
3667.875000	---	38.90	54.00	15.10	200.0	H	0.0	7.8
4467.625000	52.78	---	68.20	15.42	200.0	H	181.0	9.7
7456.625000	---	45.33	54.00	8.67	200.0	H	40.0	13.9
10345.000000	59.56	---	68.20	8.64	100.0	H	3.0	7.4

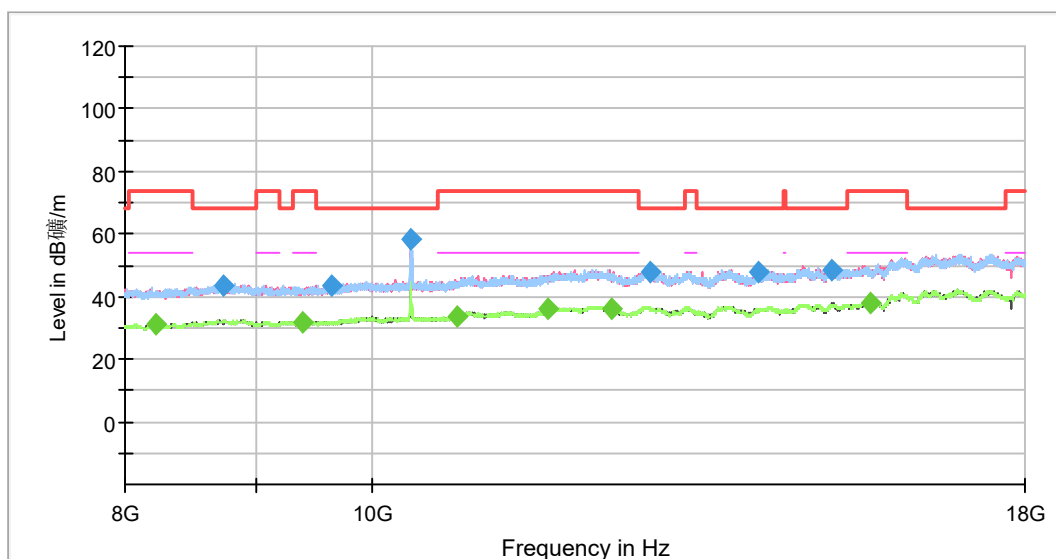
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ax HE20 106Tone CH36



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



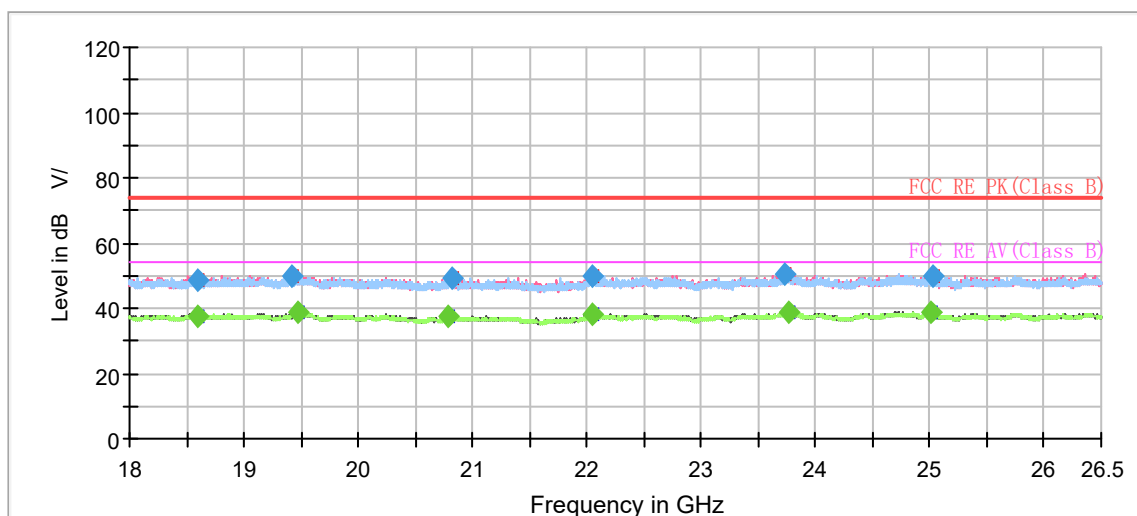
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1070.875000	---	32.04	54.00	21.96	200.0	H	24.0	-1.5
1265.125000	44.30	---	68.20	23.90	200.0	H	1.0	0.3
1360.500000	---	33.53	54.00	20.47	200.0	H	1.0	0.3
1767.375000	47.60	---	68.20	20.60	200.0	H	0.0	2.5
2160.250000	47.54	---	68.20	20.66	200.0	H	124.0	4.2
2239.000000	---	36.79	54.00	17.21	200.0	H	209.0	4.5
2796.375000	---	37.61	54.00	16.39	200.0	H	24.0	5.9
3023.000000	49.29	---	68.20	18.91	200.0	H	24.0	6.4
3507.750000	49.80	---	68.20	18.40	100.0	H	251.0	7.4
3730.000000	---	39.55	54.00	14.45	200.0	H	0.0	7.8
4440.500000	52.21	---	68.20	15.99	200.0	H	145.0	9.6
7420.750000	---	45.36	54.00	8.65	200.0	H	24.0	13.9

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

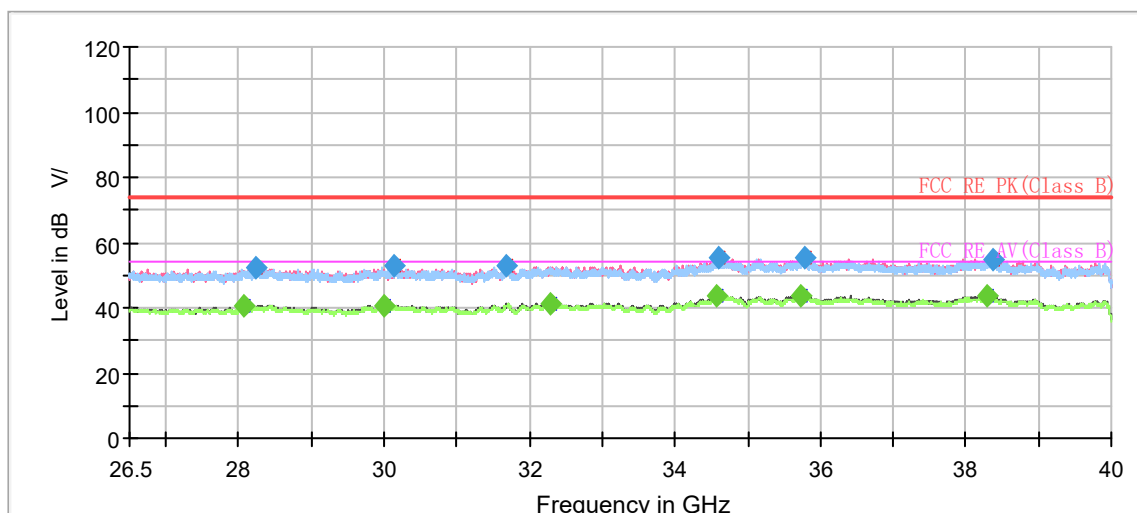
During the test, the Radiates Emission from 18GHz to 40GHz was performed in all modes with all channels, 802.11ax HE20 26Tone CH36 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18602.437500	---	37.32	54.00	16.68	500.0	100.0	V	60.0	-5.7
18604.562500	48.83	---	74.00	25.17	500.0	100.0	V	275.0	-5.7
19426.937500	49.68	---	74.00	24.32	500.0	100.0	V	41.0	-5.4
19472.625000	---	38.60	54.00	15.40	500.0	100.0	V	289.0	-5.3
20782.687500	---	37.42	54.00	16.58	500.0	100.0	V	315.0	-5.1
20824.125000	49.28	---	74.00	24.72	500.0	100.0	V	294.0	-5.1
22046.000000	49.99	---	74.00	24.01	500.0	200.0	V	174.0	-4.2
22047.062500	---	38.00	54.00	16.00	500.0	100.0	V	356.0	-4.2
23736.437500	50.57	---	74.00	23.43	500.0	200.0	H	116.0	-2.4
23764.062500	---	38.98	54.00	15.02	500.0	100.0	V	220.0	-2.4
25010.375000	---	38.52	54.00	15.48	500.0	100.0	V	0.0	-2.5
25023.125000	49.63	---	74.00	24.37	500.0	100.0	V	356.0	-2.5

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit-MAX Peak/ Average



Radiates Emission from 26.5GHz to 40GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
28074.437500	---	40.65	54.00	13.35	500.0	100.0	V	287.0	-0.4
28238.125000	52.16	---	74.00	21.84	500.0	100.0	V	268.0	-0.1
29989.750000	---	40.83	54.00	13.17	500.0	200.0	V	185.0	-0.4
30129.812500	52.78	---	74.00	21.22	500.0	100.0	V	133.0	-0.2
31682.312500	52.65	---	74.00	21.35	500.0	200.0	V	30.0	-1.7
32298.250000	---	41.51	54.00	12.49	500.0	100.0	H	181.0	-1.2
34583.125000	---	43.48	54.00	10.52	500.0	200.0	V	241.0	2.8
34610.125000	55.18	---	74.00	18.82	500.0	200.0	V	12.0	2.9
35739.062500	---	43.62	54.00	10.38	500.0	100.0	V	337.0	3.1
35776.187500	55.23	---	74.00	18.77	500.0	100.0	H	219.0	3.2
38290.562500	---	43.48	54.00	10.52	500.0	100.0	V	337.0	3.8
38363.125000	55.00	---	74.00	19.00	500.0	200.0	V	141.0	3.6

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit-MAX Peak/ Average

5.6. Conducted Emission

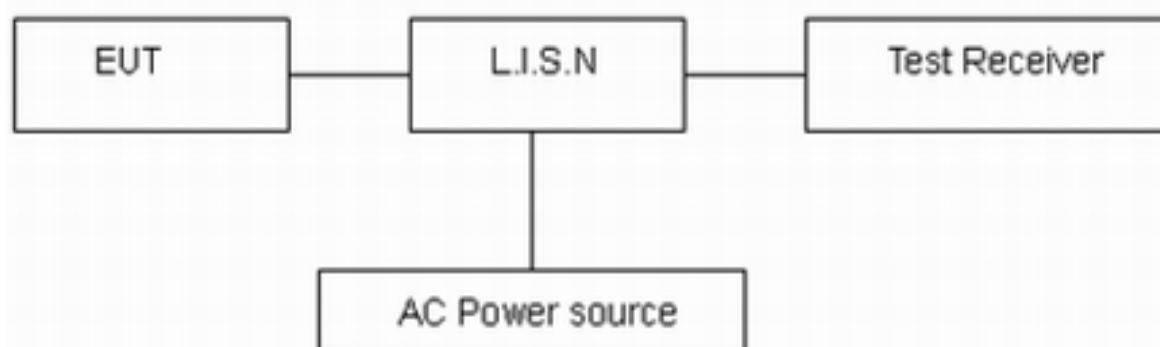
Ambient condition

Temperature	Relative humidity
20°C ~ 25°C	45% ~ 50%

Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line. The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

The equipment doesn't connect to public network, therefore this requirement does not apply.

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2023-05-12	2024-05-11
DC Power Supply	UNI-T	UTP1306S+	2205D0517426	2022-12-10	2023-12-09
Power Sensor	R&S	NRP18S	101954	2023-05-12	2024-05-11
Temperature Chamber	ESPEC	SU-242	93000506	2022-12-10	2023-12-09
EMI Test Receiver	R&S	ESR	102389	2023-05-12	2024-05-11
Spectrum Analyzer	R&S	FSV40	101186	2023-05-12	2024-05-11
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2023-07-14	2026-07-13
Horn Antenna	R&S	HF907	102723	2021-07-24	2024-07-23
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2023-01-17	2026-01-16
Software	R&S	EMC32	9.26.01	/	/

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

***** END OF REPORT *****