

ANNEX A: Test Result

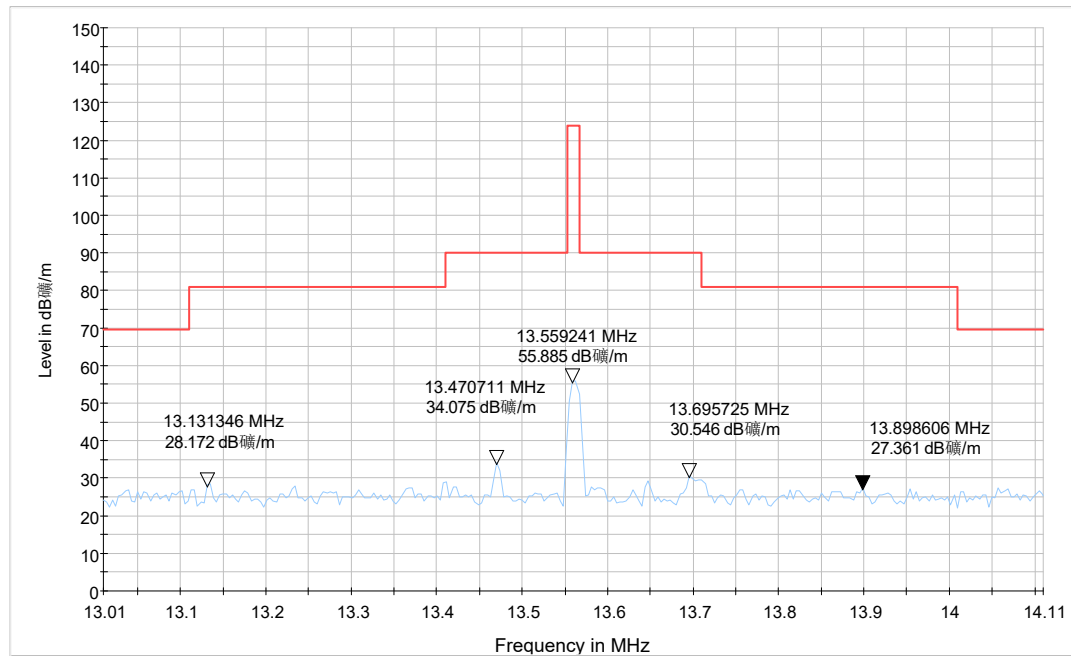
1. Radiates Emission

The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

The field strength of spurious 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 other antennas are vertical and horizontal.

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

In-band



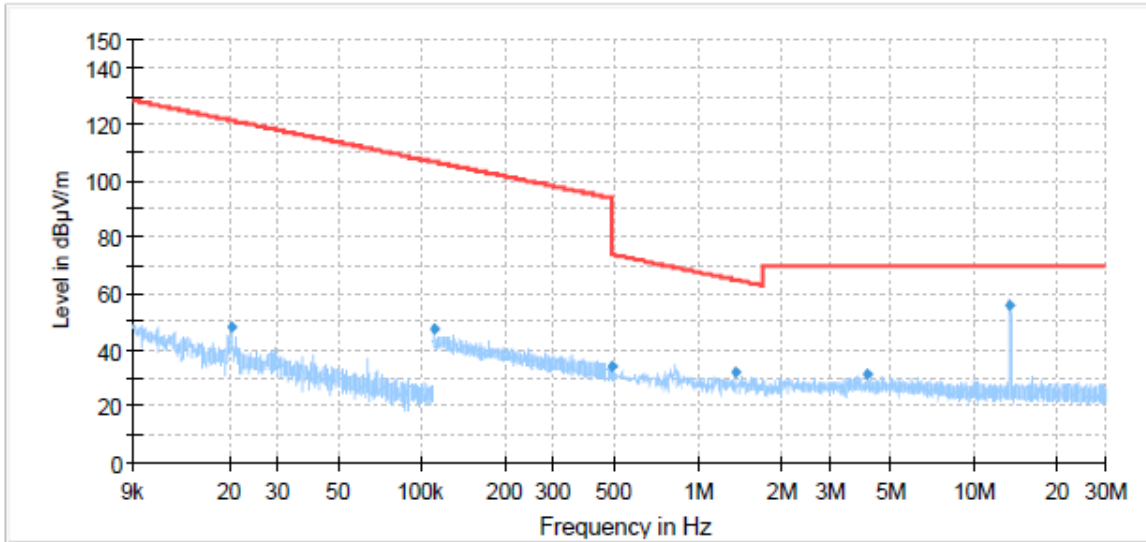
Radiates Emission from 13.01MHz to 14.11MHz

Note: This graph displays the maximum values of coaxial and coplanar by software

Out-of-band

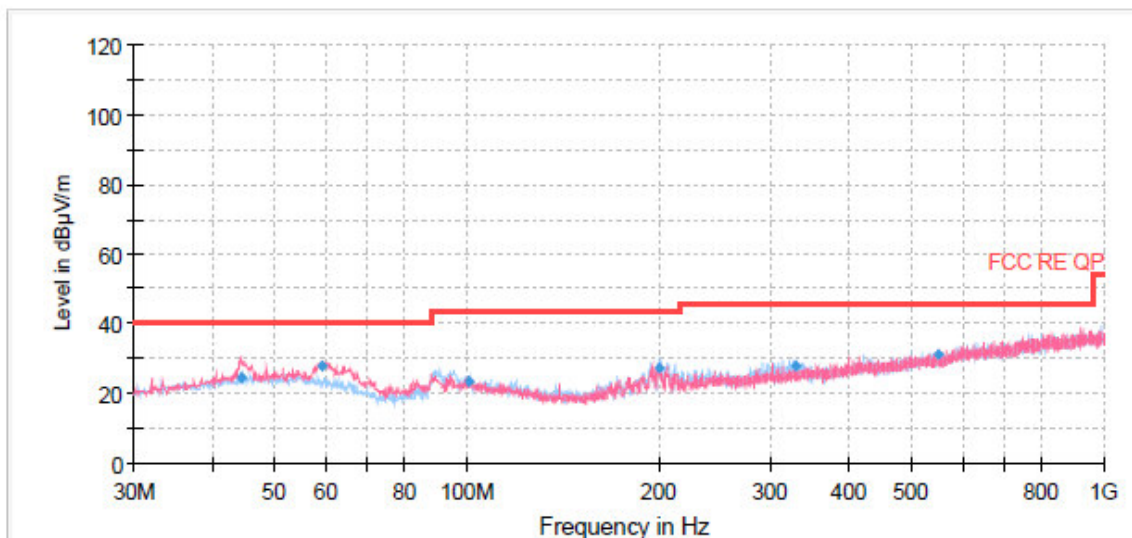
The test is in transmitting all mode, NFC-A was selected as the worst condition. The test data of the worst-case condition was recorded in this report.

The following graphs display the maximum values of coaxial and coplanar for 9k-30MHz; horizontal and vertical for 30MHz to 1GHz by software.



Radiates Emission from 9kHz to 30MHz

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	48.09	121.45	73.36	500.00	120.00	17
0.11	47.15	106.74	59.59	150.00	224.00	17
0.49	34.32	93.80	59.48	150.00	6.00	17
1.37	32.05	64.88	32.83	150.00	77.00	17
4.08	31.52	69.50	37.98	150.00	310.00	17
13.56	55.92	69.50	13.58	150.00	184.00	17



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)
44.23	24.54	40.00	15.46	100.0	V	1.00	20
59.42	27.64	40.00	12.36	200.0	V	1.00	19
100.53	23.34	43.50	20.16	200.0	H	214.00	19
201.04	27.27	43.50	16.23	200.0	H	296.00	18
329.33	27.77	46.00	18.23	100.0	H	118.00	22
548.10	30.98	46.00	15.02	100.0	V	267.00	26

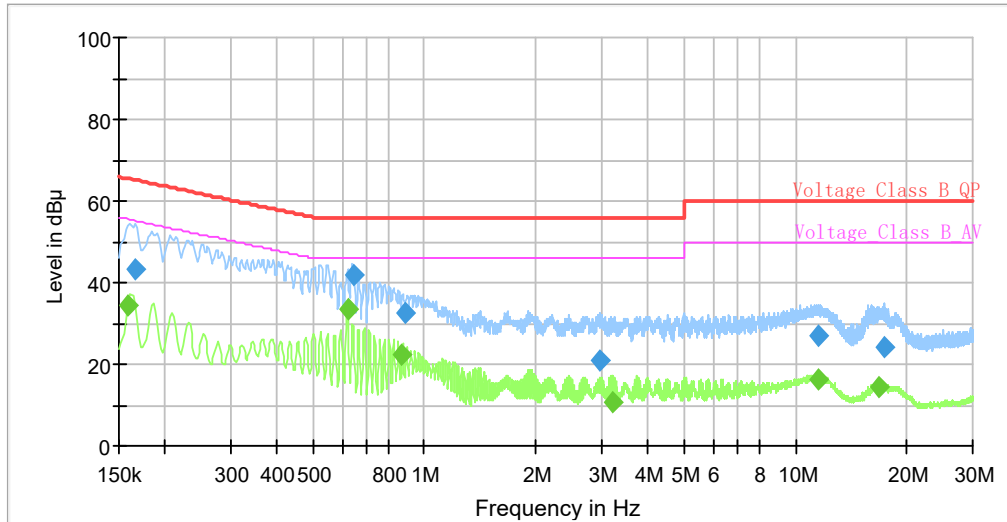
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit – Quasi-Peak

2. Conducted Emission

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.

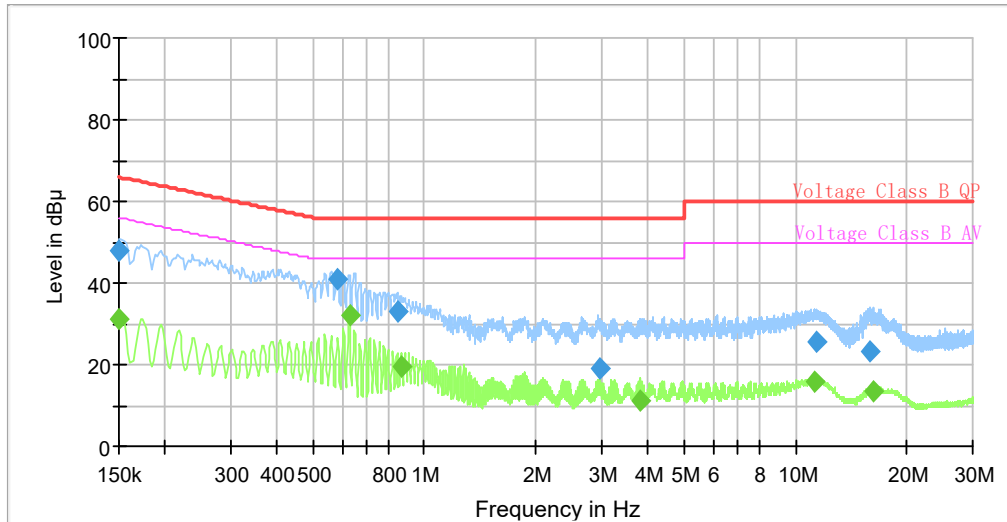
A symbol (dB μ) in the test plot below means (dB μ V)



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.158000	---	34.42	55.57	21.15	1000.0	9.000	L1	ON	20.9
0.166000	43.44	---	65.16	21.71	1000.0	9.000	L1	ON	20.9
0.621000	---	33.34	46.00	12.66	1000.0	9.000	L1	ON	20.7
0.643500	42.02	---	56.00	13.98	1000.0	9.000	L1	ON	20.6
0.872000	---	22.28	46.00	23.72	1000.0	9.000	L1	ON	20.3
0.888000	32.37	---	56.00	23.63	1000.0	9.000	L1	ON	20.3
2.954500	20.99	---	56.00	35.01	1000.0	9.000	L1	ON	19.5
3.211750	---	10.87	46.00	35.13	1000.0	9.000	L1	ON	19.5
11.483000	---	16.39	50.00	33.61	1000.0	9.000	L1	ON	19.4
11.542500	26.84	---	60.00	33.16	1000.0	9.000	L1	ON	19.4
16.863500	---	14.56	50.00	35.44	1000.0	9.000	L1	ON	19.6
17.337500	24.09	---	60.00	35.91	1000.0	9.000	L1	ON	19.6

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	---	31.22	56.00	24.78	1000.0	9.000	N	ON	20.9
0.150000	47.87	---	66.00	18.13	1000.0	9.000	N	ON	20.9
0.585000	41.13	---	56.00	14.87	1000.0	9.000	N	ON	20.7
0.627750	---	32.08	46.00	13.92	1000.0	9.000	N	ON	20.7
0.844750	32.85	---	56.00	23.15	1000.0	9.000	N	ON	20.3
0.864750	---	19.57	46.00	26.43	1000.0	9.000	N	ON	20.3
2.958500	19.23	---	56.00	36.77	1000.0	9.000	N	ON	19.5
3.804250	---	10.96	46.00	35.04	1000.0	9.000	N	ON	19.4
11.280000	---	15.75	50.00	34.25	1000.0	9.000	N	ON	19.4
11.336250	25.47	---	60.00	34.53	1000.0	9.000	N	ON	19.4
15.777500	23.41	---	60.00	36.59	1000.0	9.000	N	ON	19.6
16.142750	---	13.30	50.00	36.70	1000.0	9.000	N	ON	19.6

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz