

ANNEX A: Test Result

1. Radiates Emission

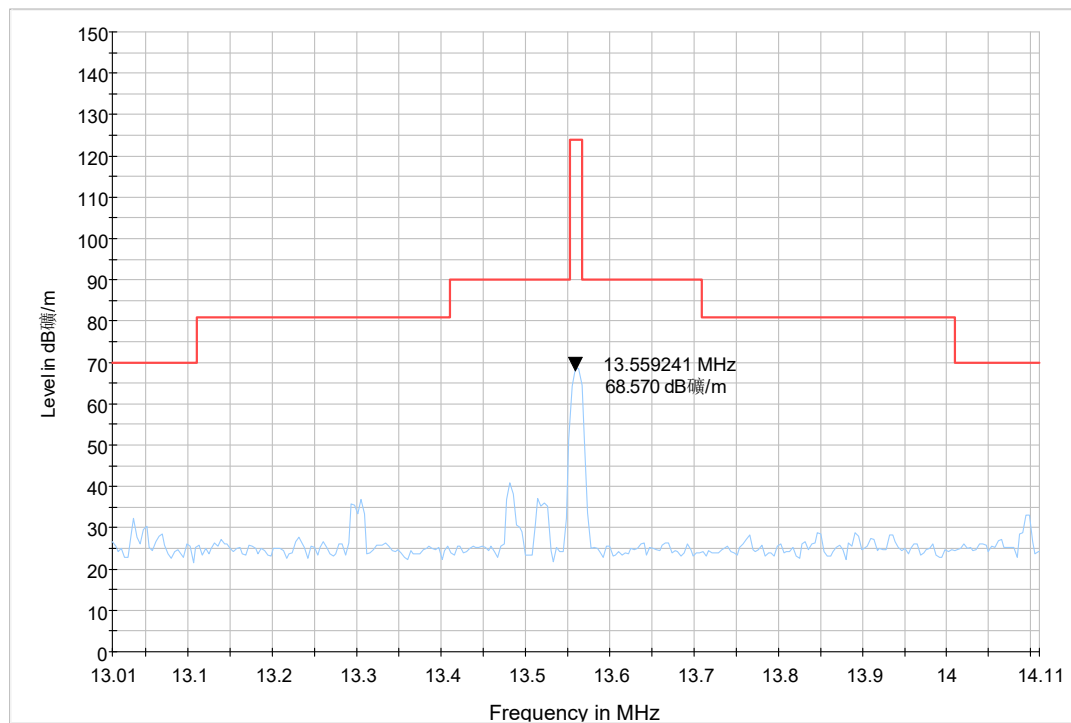
There is more than one Batteries, each one should be applied throughout the compliance test respectively, and however, only the worst case (Battery 1) will be recorded in this report.

The test is in transmitting all mode, NFC-F 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 (X axis) and the loop antenna is coplanar, the other antennas are vertical and horizontal.

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

In-band



Radiates Emission from 13.01MHz to 14.11MHz

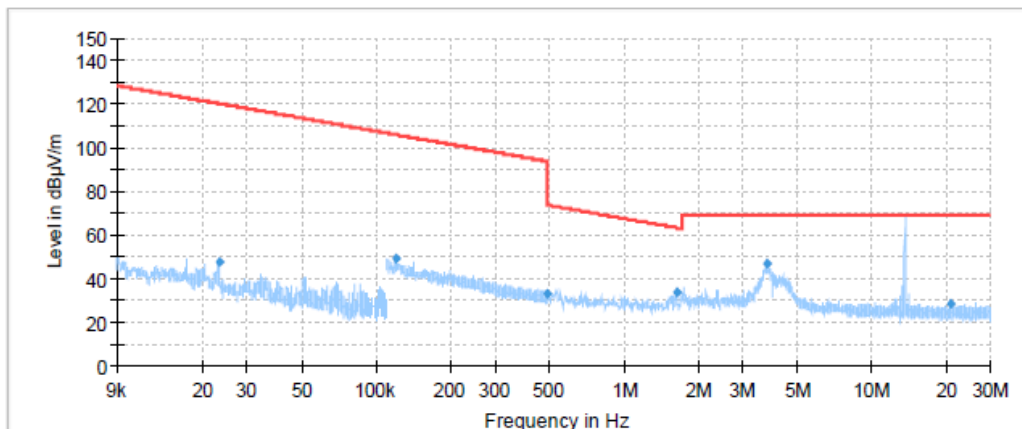
Note: This graph displays the maximum values of coaxial and coplanar by software

Out-of-band

The test is in transmitting all mode, NFC-F 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.

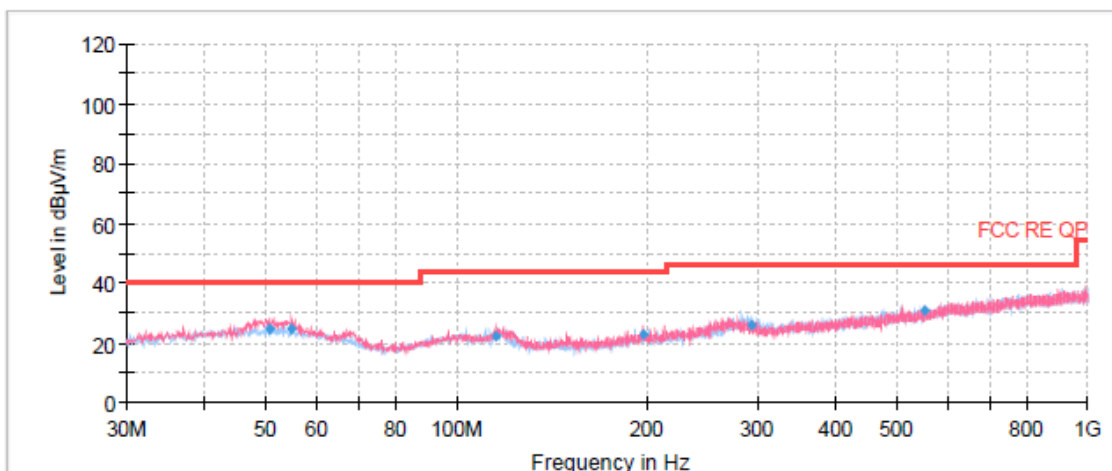
SKU 1



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	47.98	120.23	72.25	500.00	121.00	17
0.12	49.23	105.95	56.72	150.00	127.00	17
0.49	33.10	73.80	40.70	150.00	129.00	17
1.62	33.98	63.39	29.41	150.00	104.00	17
3.77	47.21	69.50	22.29	150.00	359.00	17
20.70	28.61	69.50	40.89	150.00	338.00	17

Radiates Emission from 9kHz to 30MHz



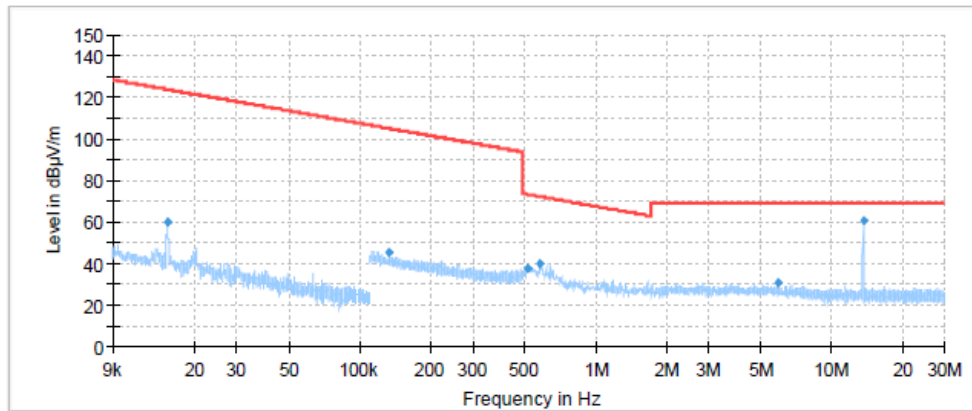
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
50.61	24.50	40.00	15.50	101.0	V	126.00	20
54.98	24.57	40.00	15.43	101.0	V	73.00	20
115.12	21.92	43.50	21.58	101.0	V	6.00	18
197.93	22.82	43.50	20.68	200.0	V	215.00	18
293.60	25.67	46.00	20.33	101.0	H	56.00	21
551.98	30.68	46.00	15.32	101.0	H	0.00	26

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

2. Margin = Limit – Quasi-Peak

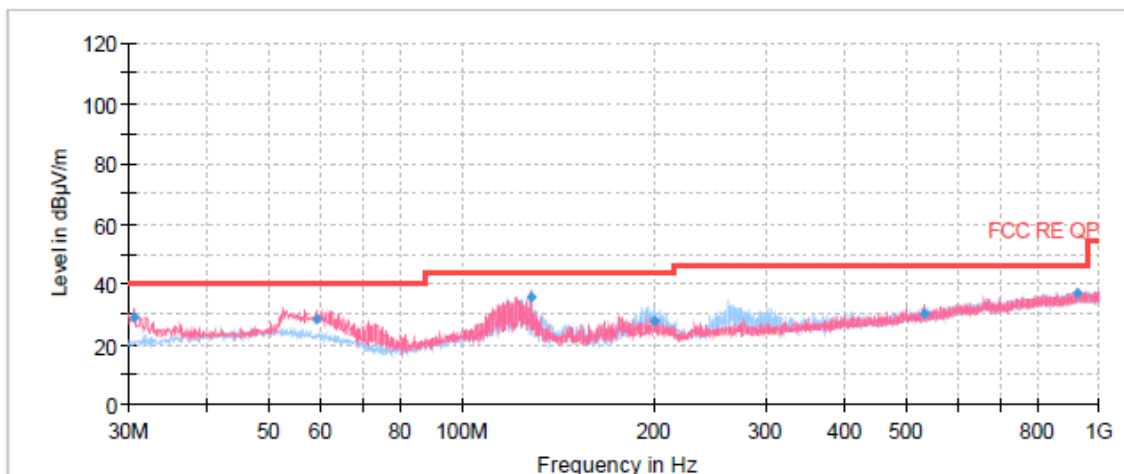
SKU 2



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Azimuth (deg)	Corr. (dB/m)
0.02	59.63	123.87	64.24	500.00	322.00	18
0.13	45.50	105.10	59.59	150.00	318.00	17
0.51	37.97	73.42	35.44	150.00	244.00	17
0.58	40.18	72.30	32.12	150.00	350.00	17
5.92	30.84	69.50	38.66	150.00	350.00	17
13.56	60.73	69.50	8.77	150.00	104.00	17

Radiates Emission from 9kHz to 30MHz



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)
30.73	29.08	40.00	10.92	100.0	V	21.00	17
59.22	28.24	40.00	11.76	100.0	V	164.00	19
128.33	35.50	43.50	8.00	200.0	V	189.00	16
200.36	27.67	43.50	15.83	200.0	H	173.00	18
531.73	30.31	46.00	15.69	100.0	V	359.00	26
926.16	36.99	46.00	9.01	200.0	V	0.00	31

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

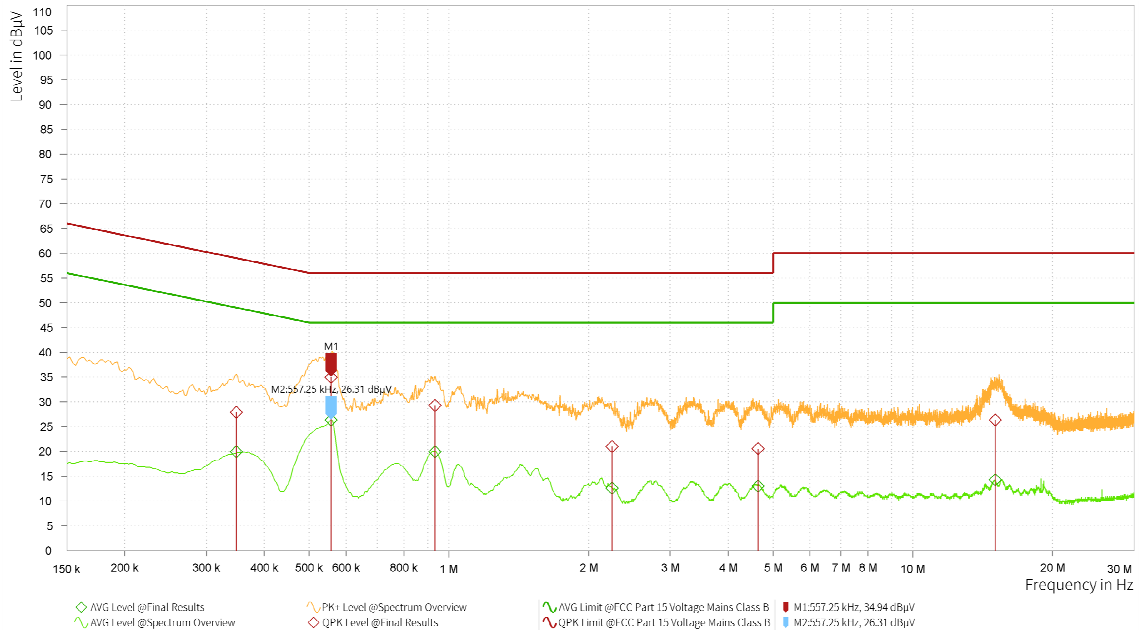
2. Margin = Limit – Quasi-Peak

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.

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.

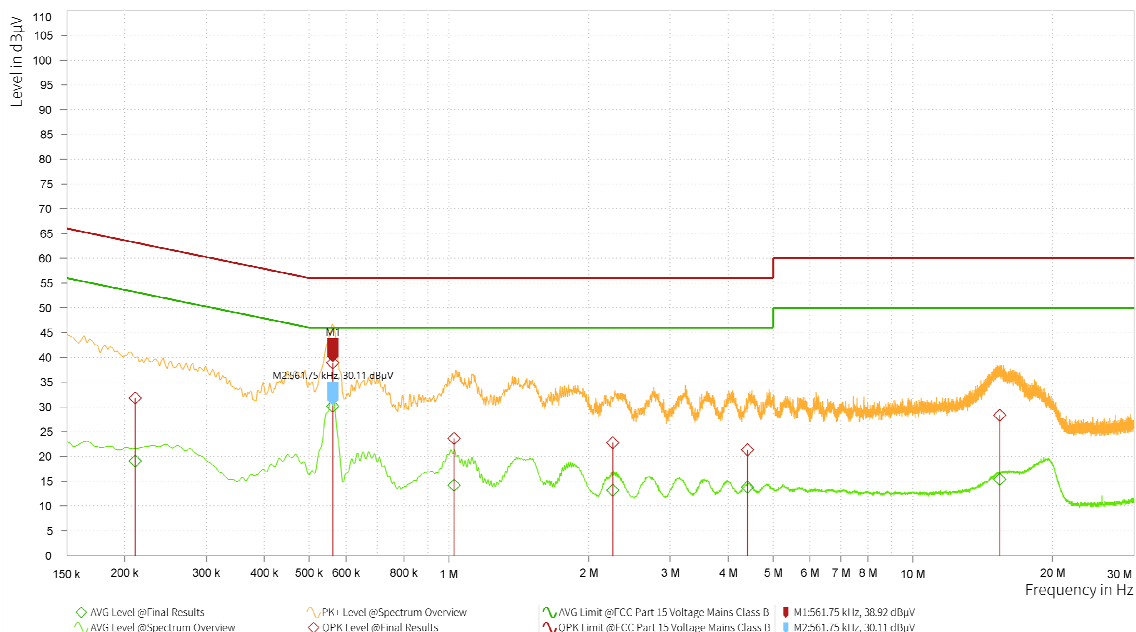
SKU 1



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]
0.348	27.87	59.01	31.14	19.91	49.01	29.10	21.26	L1	9.000	1.000
0.557	34.94	56.00	21.06	26.31	46.00	19.69	21.07	L1	9.000	1.000
0.933	29.24	56.00	26.76	19.90	46.00	26.10	20.52	L1	9.000	1.000
2.247	20.94	56.00	35.06	12.58	46.00	33.42	19.95	L1	9.000	1.000
4.639	20.56	56.00	35.44	13.01	46.00	32.99	19.75	L1	9.000	1.000
15.065	26.33	60.00	33.67	14.29	50.00	35.71	19.77	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz

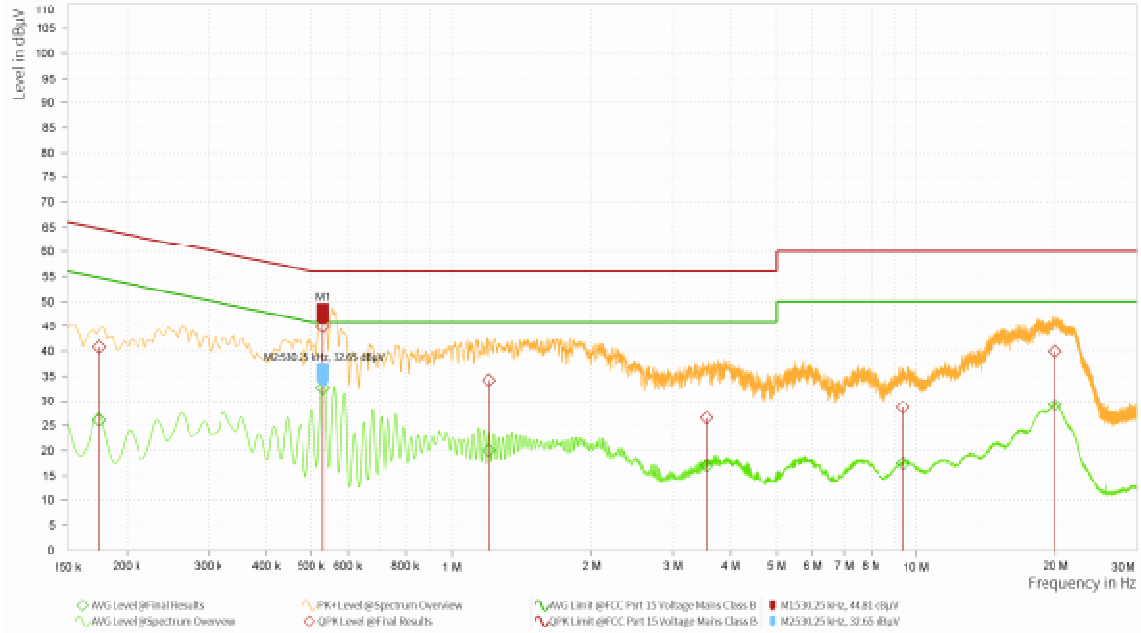


Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.211	31.79	63.18	31.39	19.09	53.18	34.09	21.31	N	9.000	1.000
0.562	38.92	56.00	17.08	30.11	46.00	15.89	21.01	N	9.000	1.000
1.025	23.63	56.00	32.37	14.20	46.00	31.80	20.48	N	9.000	1.000
2.256	22.79	56.00	33.21	13.18	46.00	32.82	19.90	N	9.000	1.000
4.405	21.35	56.00	34.65	13.79	46.00	32.21	19.80	N	9.000	1.000
15.405	28.33	60.00	31.67	15.35	50.00	34.65	19.82	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

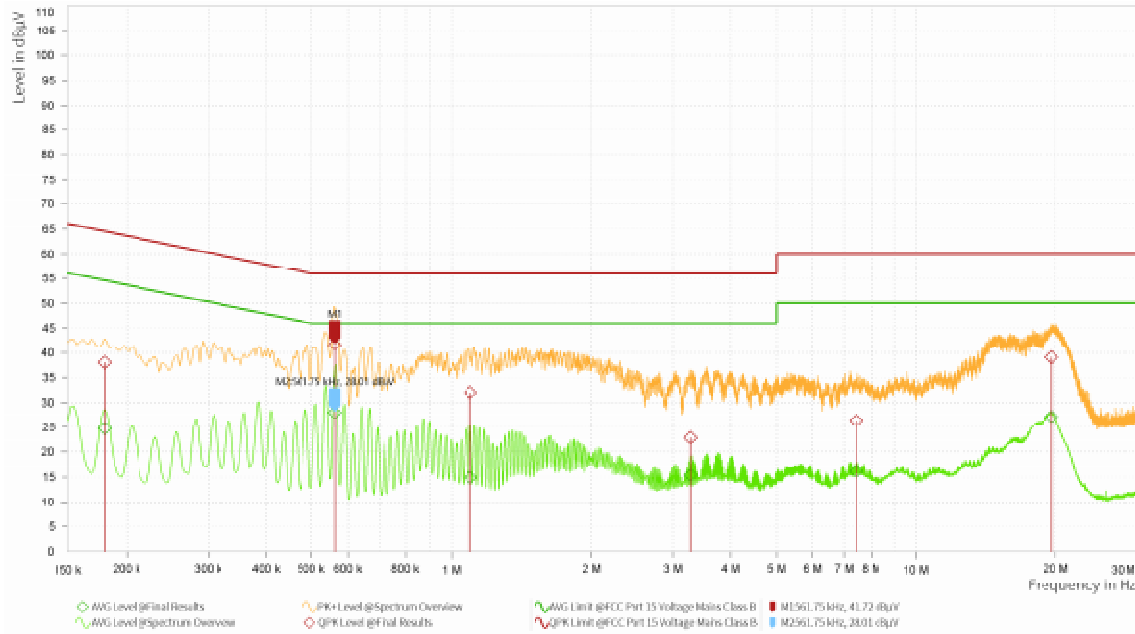
SKU 2



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]
0.175	40.73	64.73	24.00	26.03	54.73	28.71	21.36	L1	9.000	1.000
0.530	44.81	56.00	11.19	32.65	46.00	13.35	21.10	L1	9.000	1.000
1.208	34.18	56.00	21.82	20.03	46.00	25.97	20.32	L1	9.000	1.000
3.530	26.45	56.00	29.55	16.96	46.00	29.04	19.80	L1	9.000	1.000
9.395	28.63	60.00	31.37	17.44	50.00	32.56	19.77	L1	9.000	1.000
19.973	39.84	60.00	20.16	29.14	50.00	20.86	19.95	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency [MHz]	QPK Level [dBμV]	QPK Limit [dBμV]	QPK Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.179	38.02	64.52	26.50	24.72	54.52	29.80	21.31	N	9.000	1.000
0.562	41.72	56.00	14.28	28.01	46.00	17.99	21.01	N	9.000	1.000
1.100	32.01	56.00	23.99	14.95	46.00	31.05	20.42	N	9.000	1.000
3.264	22.87	56.00	33.13	15.43	46.00	30.57	19.82	N	9.000	1.000
7.424	26.38	60.00	33.62	16.17	50.00	33.83	19.72	N	9.000	1.000
19.608	39.04	60.00	20.96	27.17	50.00	22.83	20.06	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz