

ANNEX A: Test Result

There are more than one Model, each one should be applied throughout the compliance test respectively, however, only the worst case (KR282) will be recorded in this report.

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 coaxial, the others are vertical and horizontal. and the worst case was recorded.

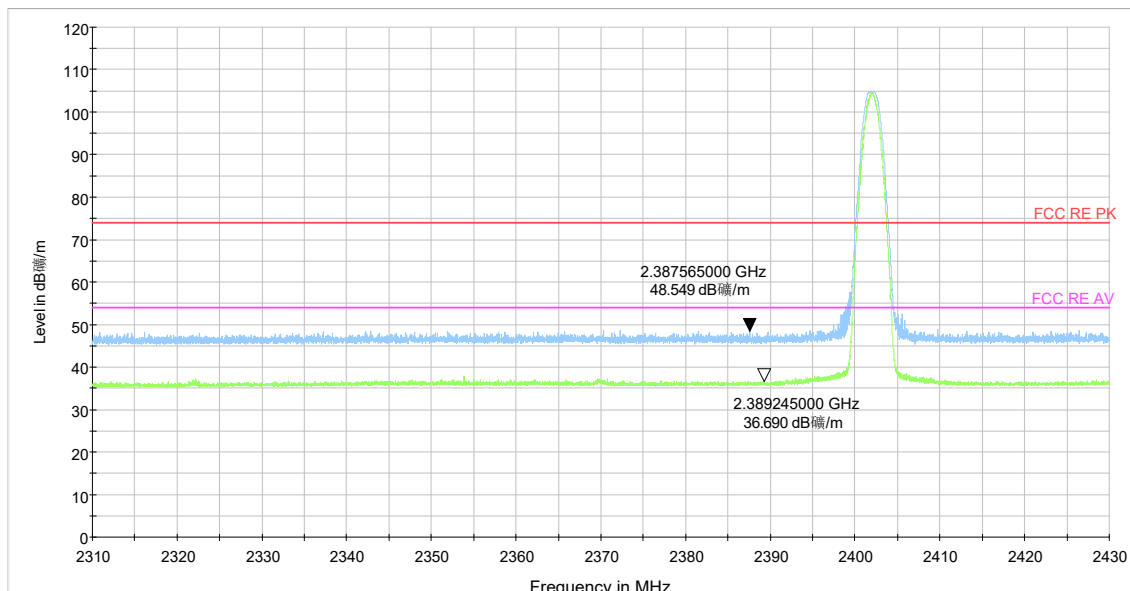
1. Unwanted Emission

1.1. NearLink SLE

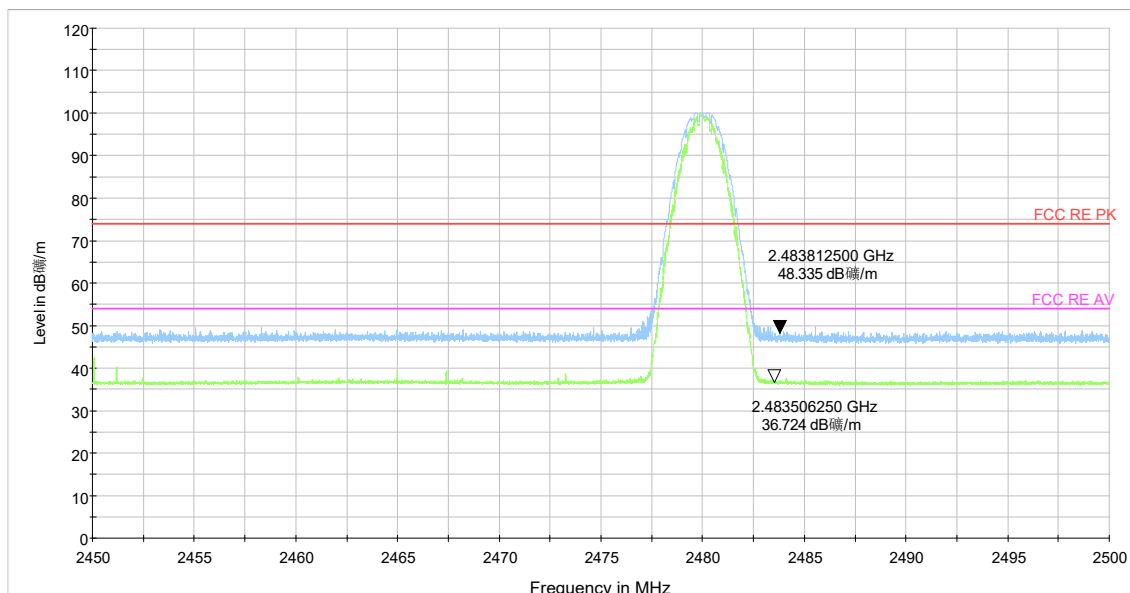
The following graphs display the maximum values of horizontal and vertical by software. Blue trace uses the peak detection, Green trace uses the average detection.

KR282

The signal beyond the limit is carrier.



NearLink SLE CH0: Peak + Average



NearLink SLE CH78: Peak + Average

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 horizontal and vertical by software.**
4. **For below 1GHz**

~ QP Level @Spectrum Overview H ~ QP Level @Spectrum Overview V ◆ QP Level @Final Results — QP Limit

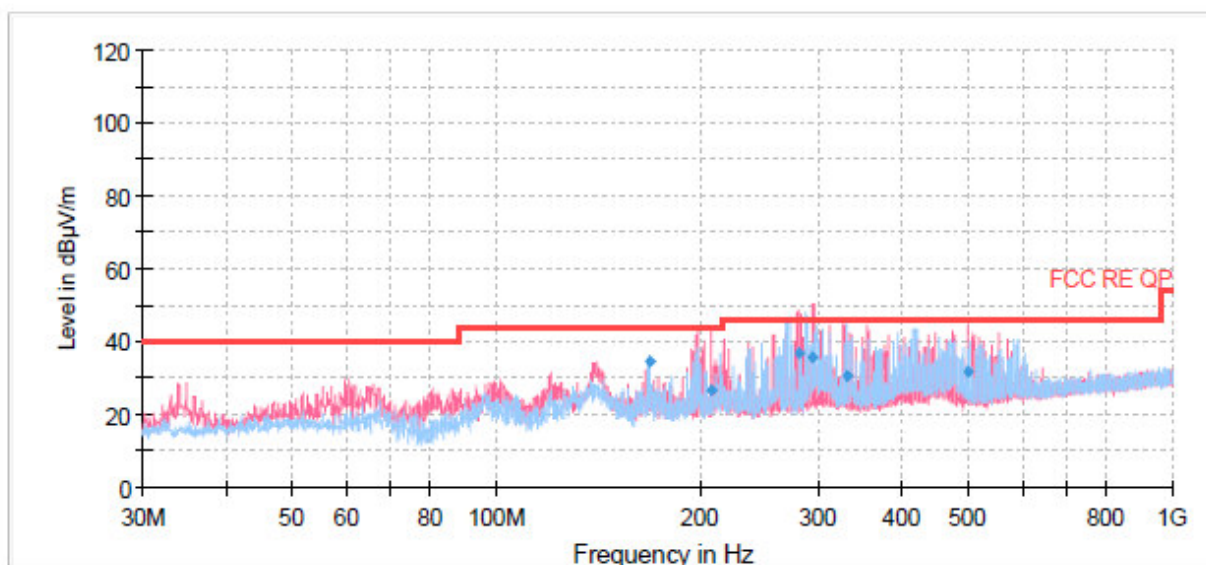
For above 1GHz

~ 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:

KR282

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.

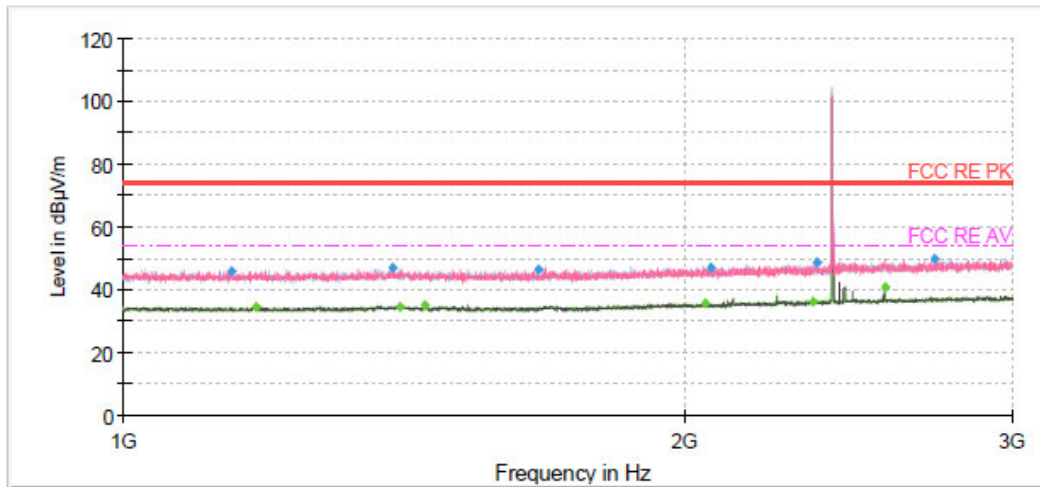


Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
168.18	34.64	43.50	8.86	1000.00	225.0	H	37.00	16
207.36	26.70	43.50	16.80	1000.00	100.0	V	292.00	18
280.30	36.71	46.00	9.29	1000.00	184.0	V	23.00	20
294.45	35.70	46.00	10.30	1000.00	110.0	V	36.00	21
330.93	30.42	46.00	15.58	1000.00	214.0	H	278.00	22
497.13	31.85	46.00	14.15	1000.00	110.0	V	20.00	25

Radiates Emission from 30MHz to 1GHz

NearLink SLE CH0

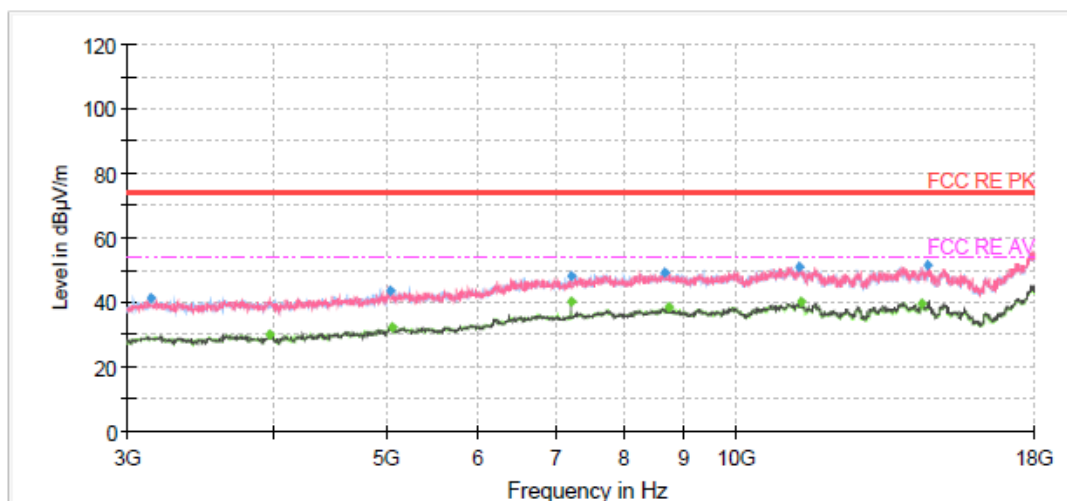


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1143.50	46.10	---	74.00	27.90	500.00	200.0	V	71.00	3
1177.75	---	34.42	54.00	19.58	500.00	100.0	V	0.00	4
1393.50	46.74	---	74.00	27.26	500.00	100.0	H	359.00	5
1407.50	---	34.75	54.00	19.25	500.00	100.0	H	357.00	4
1452.50	---	34.96	54.00	19.04	500.00	100.0	V	0.00	5
1671.75	46.50	---	74.00	27.50	500.00	200.0	V	56.00	5
2053.00	---	35.69	54.00	18.31	500.00	200.0	H	2.00	6
2067.75	47.14	---	74.00	26.86	500.00	100.0	V	0.00	6
2347.25	---	36.15	54.00	17.85	500.00	100.0	H	358.00	7
2355.25	48.87	---	74.00	25.13	500.00	200.0	V	358.00	7
2562.00	---	40.60	54.00	13.40	500.00	100.0	V	58.00	8
2727.50	49.89	---	74.00	24.11	500.00	200.0	H	179.00	8

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

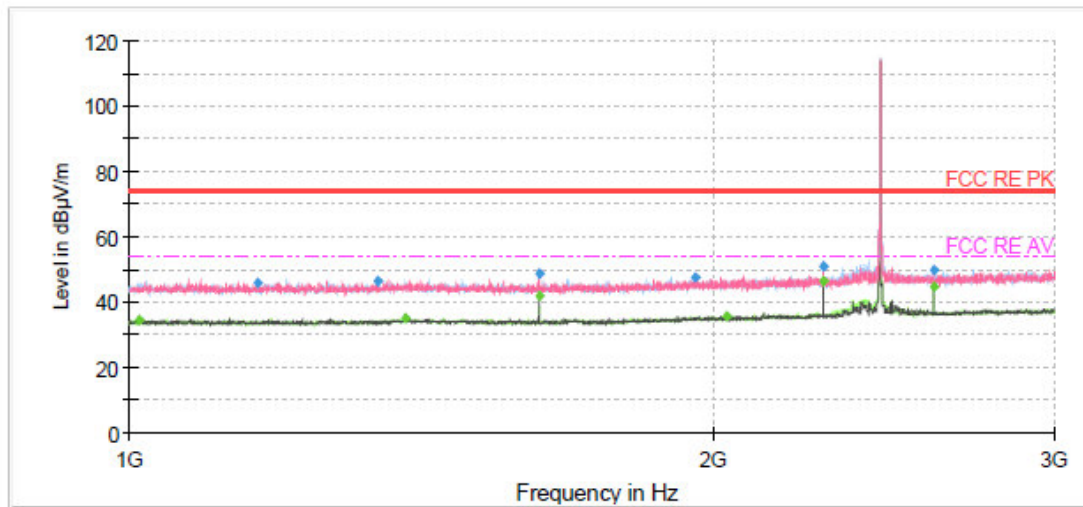


Final Result

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	41.29	---	74.00	32.71	500.00	100.0	H	280.00	-8
3971.25	---	30.11	54.00	23.89	500.00	200.0	V	0.00	-4
5049.38	43.70	---	74.00	30.30	500.00	100.0	V	268.00	-2
5051.25	---	32.29	54.00	21.71	500.00	100.0	H	25.00	-2
7205.63	---	40.23	54.00	13.77	500.00	200.0	V	32.00	1
7218.75	48.27	---	74.00	25.73	500.00	200.0	H	336.00	1
8670.00	49.47	---	74.00	24.53	500.00	200.0	V	0.00	4
8737.50	---	38.25	54.00	15.75	500.00	100.0	V	237.00	5
11298.75	51.13	---	74.00	22.87	500.00	200.0	V	122.00	7
11338.13	---	40.26	54.00	13.74	500.00	100.0	V	354.00	7
14405.63	---	39.49	54.00	14.51	500.00	200.0	H	36.00	8
14583.75	51.39	---	74.00	22.61	500.00	100.0	V	326.00	8

Radiates Emission from 3GHz to 18GHz

NearLink SLE CH39

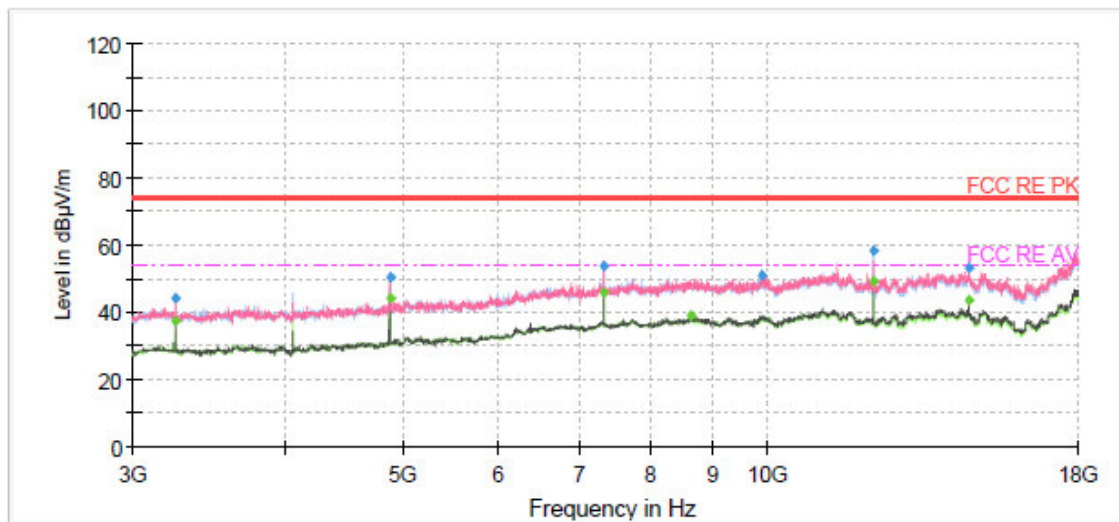


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1012.75	---	34.67	54.00	19.33	500.00	200.0	H	0.00	3
1165.25	46.07	---	74.00	27.93	500.00	200.0	H	72.00	3
1342.75	46.33	---	74.00	27.67	500.00	100.0	V	337.00	4
1388.25	---	34.91	54.00	19.09	500.00	200.0	H	321.00	4
1626.50	48.52	---	74.00	25.48	500.00	200.0	V	204.00	4
1627.50	---	41.69	54.00	12.31	500.00	200.0	V	176.00	4
1960.25	47.60	---	74.00	26.40	500.00	100.0	V	0.00	6
2031.25	---	35.56	54.00	18.44	500.00	200.0	H	347.00	6
2281.00	---	46.19	54.00	7.81	500.00	200.0	H	1.00	7
2281.25	51.06	---	74.00	22.94	500.00	200.0	H	5.00	7
2600.75	49.85	---	74.00	24.15	500.00	200.0	V	66.00	8
2601.00	---	44.87	54.00	9.13	500.00	200.0	V	66.00	8

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

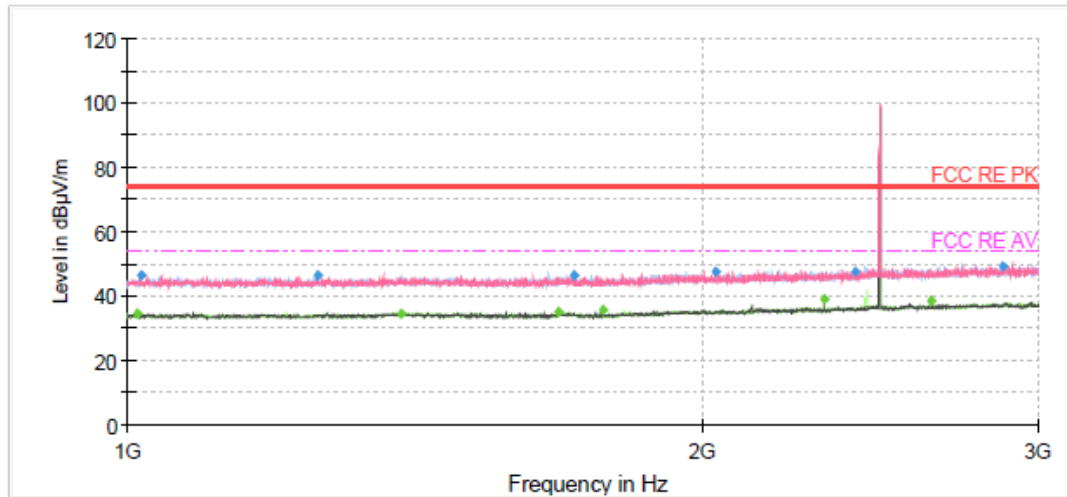


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3253.13	43.91	---	74.00	30.09	500.00	100.0	V	130.00	-8
3253.13	---	37.20	54.00	16.80	500.00	100.0	V	130.00	-8
4880.63	---	44.30	54.00	9.70	500.00	200.0	V	2.00	-3
4882.50	50.29	---	74.00	23.71	500.00	200.0	V	3.00	-3
7321.88	53.81	---	74.00	20.19	500.00	200.0	H	147.00	2
7321.88	---	45.95	54.00	8.05	500.00	200.0	H	147.00	2
8626.88	---	38.86	54.00	15.14	500.00	100.0	V	205.00	4
9898.13	50.83	---	74.00	23.17	500.00	200.0	V	1.00	5
12204.38	58.15	---	74.00	15.85	500.00	200.0	H	356.00	7
12206.25	---	49.20	54.00	4.81	500.00	200.0	H	356.00	7
14647.50	53.46	---	74.00	20.54	500.00	200.0	H	101.00	8
14647.50	---	43.85	54.00	10.15	500.00	200.0	V	92.00	8

Radiates Emission from 3GHz to 18GHz

NearLink SLE CH78

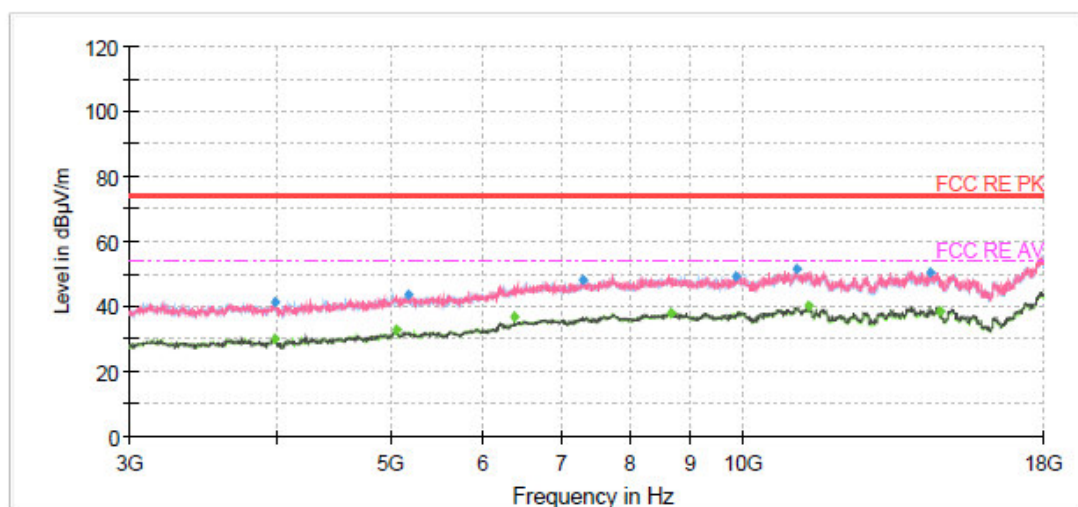


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1012.75	---	34.57	54.00	19.43	500.00	100.0	V	17.00	3
1015.50	46.14	---	74.00	27.86	500.00	100.0	V	191.00	3
1257.25	46.20	---	74.00	27.80	500.00	100.0	V	94.00	4
1390.25	---	34.72	54.00	19.28	500.00	200.0	V	329.00	5
1680.25	---	34.87	54.00	19.13	500.00	200.0	V	180.00	5
1712.00	46.42	---	74.00	27.58	500.00	100.0	V	218.00	5
1773.25	---	35.91	54.00	18.09	500.00	100.0	V	341.00	5
2034.00	47.80	---	74.00	26.20	500.00	200.0	V	358.00	6
2319.75	---	38.95	54.00	15.05	500.00	200.0	H	4.00	7
2409.00	47.62	---	74.00	26.38	500.00	200.0	H	15.00	7
2640.00	---	38.32	54.00	15.68	500.00	200.0	V	54.00	8
2874.25	49.43	---	74.00	24.57	500.00	100.0	V	0.00	8

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz



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)
3988.13	---	29.96	54.00	24.04	500.00	200.0	V	2.00	-5
3990.00	41.08	---	74.00	32.92	500.00	100.0	V	305.00	-5
5053.13	---	32.65	54.00	21.35	500.00	100.0	H	127.00	-2
5186.25	43.54	---	74.00	30.46	500.00	100.0	V	155.00	-2
6371.25	---	36.73	54.00	17.27	500.00	200.0	V	114.00	1
7278.75	48.22	---	74.00	25.78	500.00	100.0	V	305.00	2
8671.88	---	37.99	54.00	16.01	500.00	200.0	V	37.00	4
9832.50	49.43	---	74.00	24.57	500.00	200.0	H	351.00	5
11101.88	51.23	---	74.00	22.77	500.00	200.0	H	0.00	7
11334.38	---	39.94	54.00	14.06	500.00	100.0	H	2.00	7
14405.63	50.45	---	74.00	23.55	500.00	200.0	V	59.00	8
14671.88	---	38.27	54.00	15.73	500.00	200.0	V	37.00	8

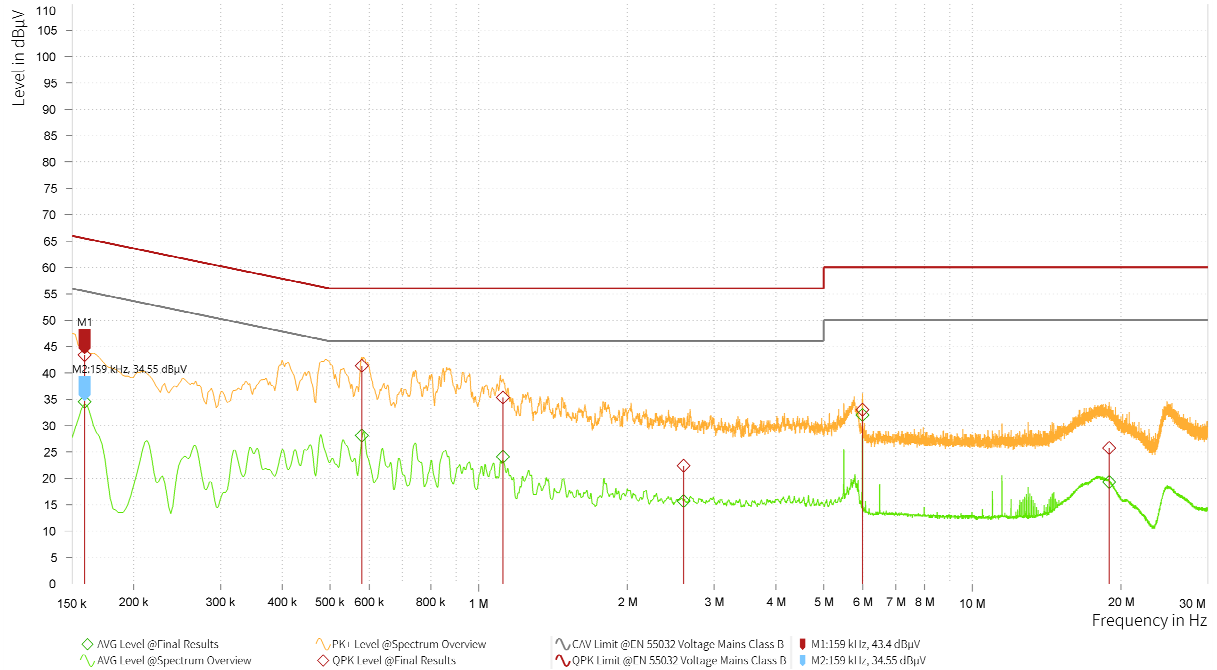
Radiates Emission from 3GHz to 18GHz

2. Conducted Emission

2.1. NearLink SLE

KR282

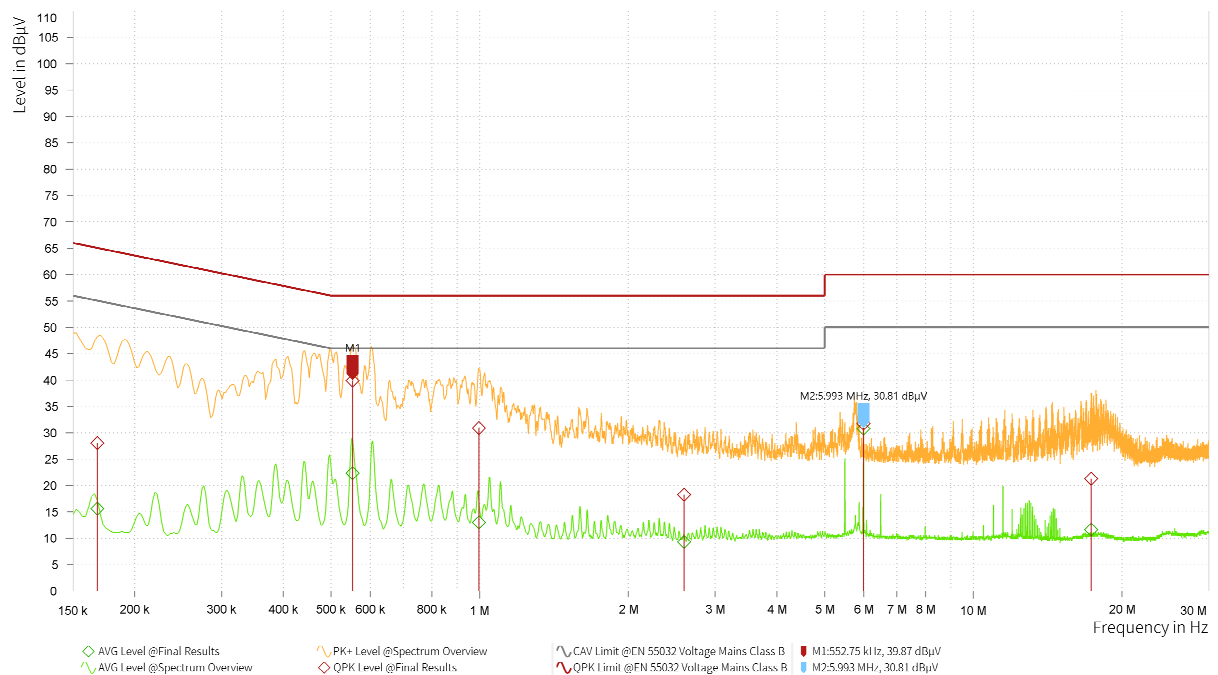
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



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]
0.159	43.40	65.52	22.11	34.55	55.52	20.97	20.90	L1	9.000	1.000
0.580	41.37	56.00	14.63	28.14	46.00	17.86	20.70	L1	9.000	1.000
1.120	35.32	56.00	20.68	24.09	46.00	21.91	20.07	L1	9.000	1.000
2.600	22.41	56.00	33.59	15.72	46.00	30.28	19.53	L1	9.000	1.000
5.991	33.01	60.00	26.99	32.00	50.00	18.00	19.40	L1	9.000	1.000
18.949	25.75	60.00	34.25	19.30	50.00	30.70	19.63	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: CAV Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]	Meas. Time [s]
0.168	28.04	65.06	37.02	15.63	55.06	39.43	20.90	N	9.000	1.000
0.553	39.87	56.00	16.13	22.35	46.00	23.65	20.73	N	9.000	1.000
0.996	30.87	56.00	25.13	12.98	46.00	33.02	20.17	N	9.000	1.000
2.594	18.24	56.00	37.76	9.30	46.00	36.70	19.54	N	9.000	1.000
5.993	31.75	60.00	28.25	30.81	50.00	19.19	19.41	N	9.000	1.000
17.329	21.29	60.00	38.71	11.63	50.00	38.37	19.62	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz