

ANNEX A: Test Result

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 (X axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

1. Unwanted Emission

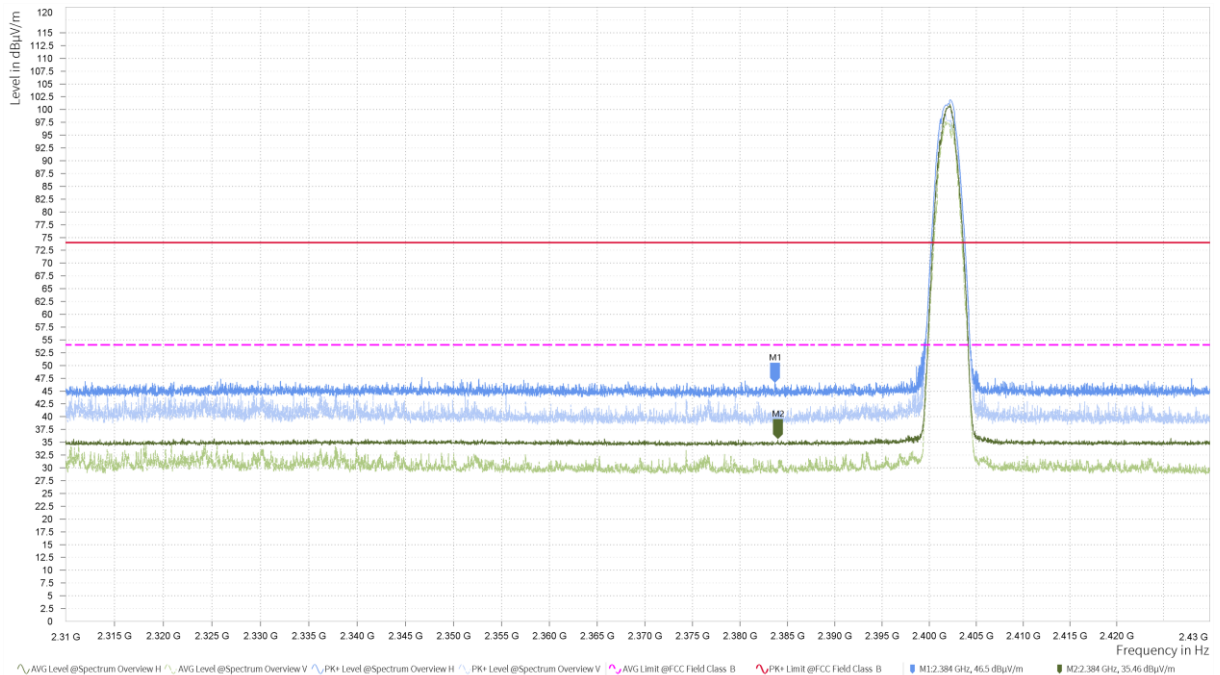
1.1. NearLink SLE

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.

After the pretest, NearLink SLE (1M) was selected as the worst Mode for NearLink SLE.

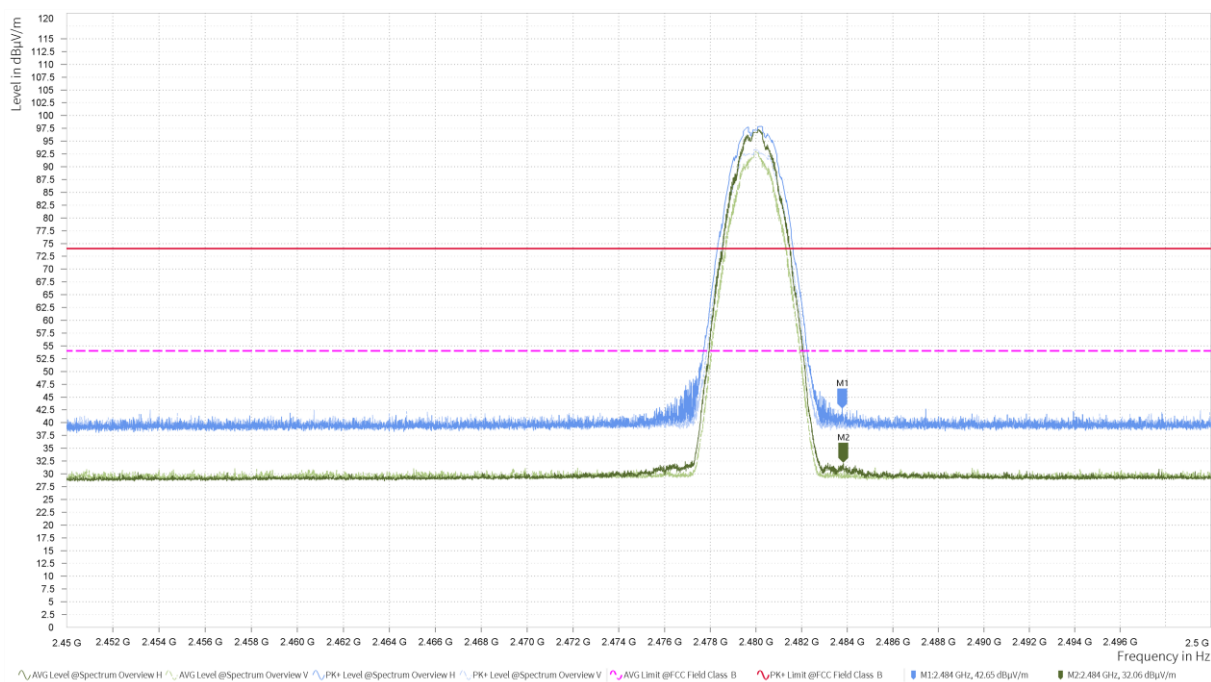
The signal beyond the limit is carrier.

Spectrum Overview H/V



NearLink SLE 2402MHz: Peak + Average

Spectrum Overview H/V



NearLink SLE 2480MHz: 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**

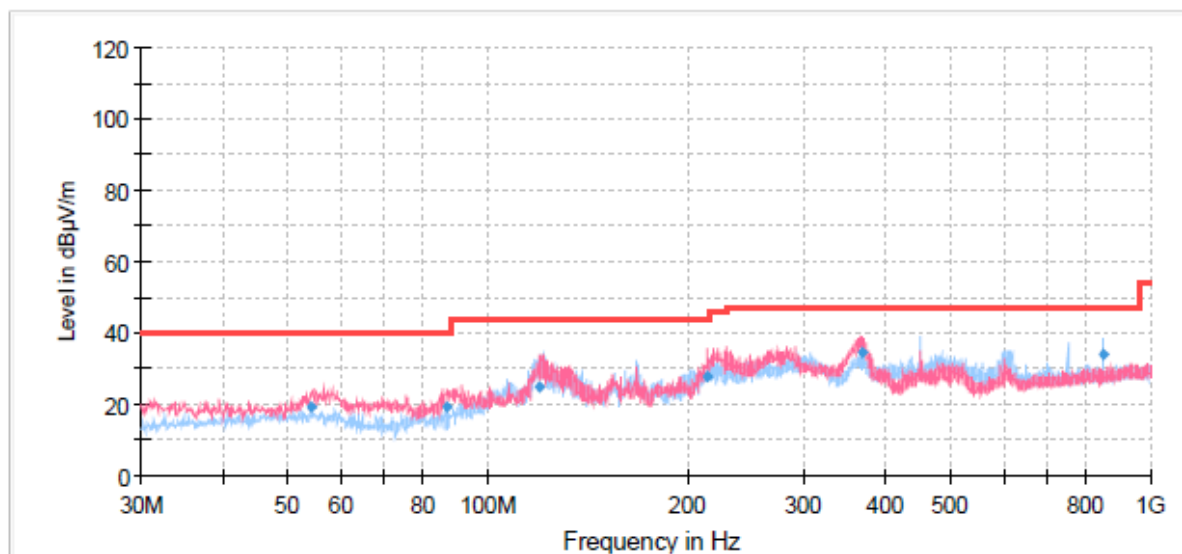
~ QP Level @Spectrum Overview H ~ QP Level @Spectrum Overview V ◆ QP Level @Final Results — QP Limit

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:

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.

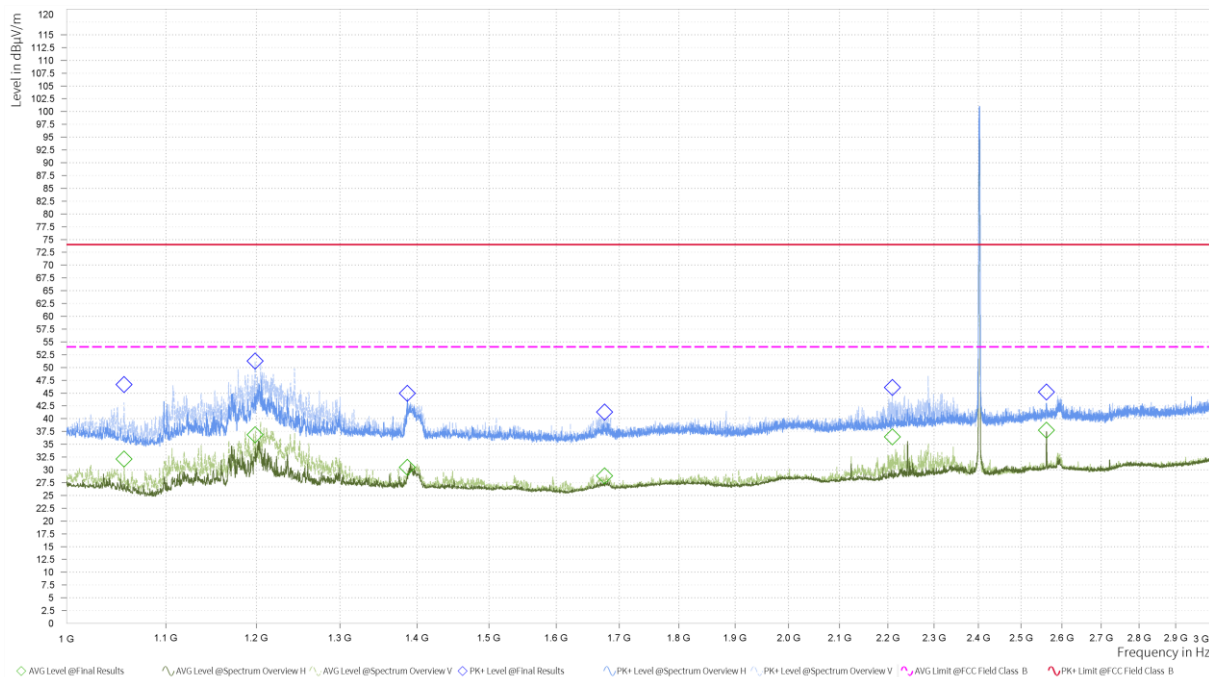


Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
54.08	19.12	40.00	20.88	100.0	V	24.00	20
86.58	19.36	40.00	20.64	100.0	V	326.00	16
119.57	24.84	43.50	18.66	100.0	V	176.00	17
214.30	27.69	43.50	15.81	100.0	V	17.00	18
365.99	34.43	47.00	12.57	100.0	V	347.00	22
850.02	33.85	47.00	13.15	100.0	H	198.00	30

NearLink SLE 2402MHz

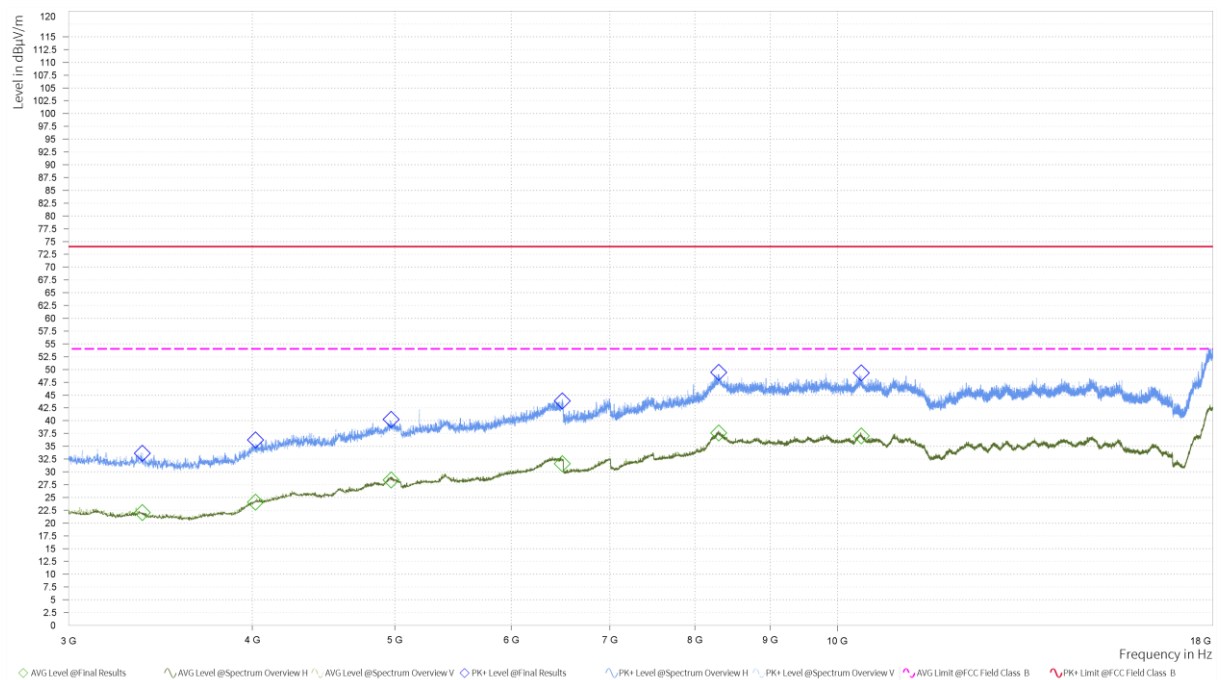
Spectrum Overview H/V



Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,056.750	46.63	74.00	27.37	32.10	54.00	21.90	-5.70	V	138.1	2.00	1.000
1,198.250	51.21	74.00	22.79	36.84	54.00	17.16	-4.73	V	145	2.00	1.000
1,387.000	44.90	74.00	29.10	30.49	54.00	23.51	-4.45	H	215.6	2.00	1.000
1,676.250	41.29	74.00	32.71	28.78	54.00	25.22	-3.94	V	327.2	2.00	1.000
2,209.500	46.08	74.00	27.92	36.43	54.00	17.57	-1.13	V	169.4	1.00	1.000
2,562.000	45.18	74.00	28.82	37.71	54.00	16.29	0.68	H	350.1	2.00	1.000

Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz

Spectrum Overview H/V

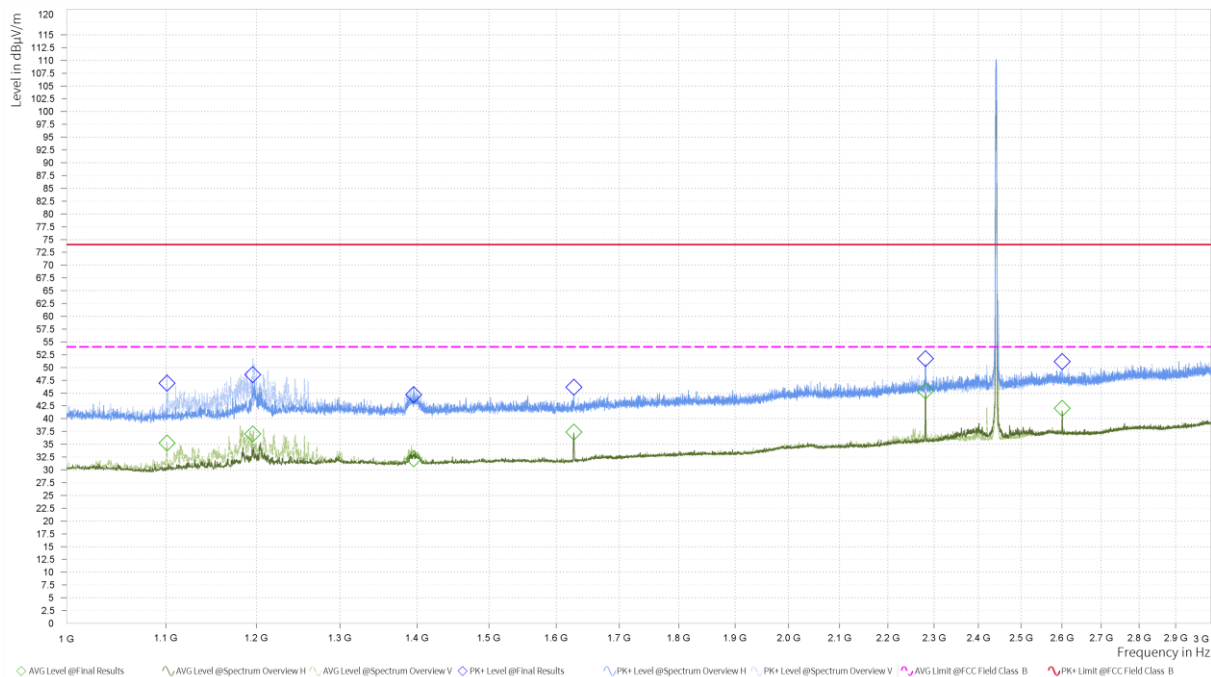


Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,367.500	33.60	74.00	40.40	22.02	54.00	31.98	-7.53	V	335.1	1.00	1.000
4,020.000	36.19	74.00	37.81	24.05	54.00	29.95	-5.43	V	357	2.00	1.000
4,970.625	40.21	74.00	33.79	28.37	54.00	25.63	-0.86	V	156.3	1.00	1.000
6,498.750	43.82	74.00	30.18	31.56	54.00	22.44	1.15	H	199.3	2.00	1.000
8,302.500	49.41	74.00	24.59	37.54	54.00	16.46	6.65	V	144.1	2.00	1.000
10,378.125	49.32	74.00	24.68	37.01	54.00	16.99	6.20	V	174	2.00	1.000

Radiates Emission from 3GHz to 18GHz

NearLink SLE 2440MHz

Spectrum Overview H/V

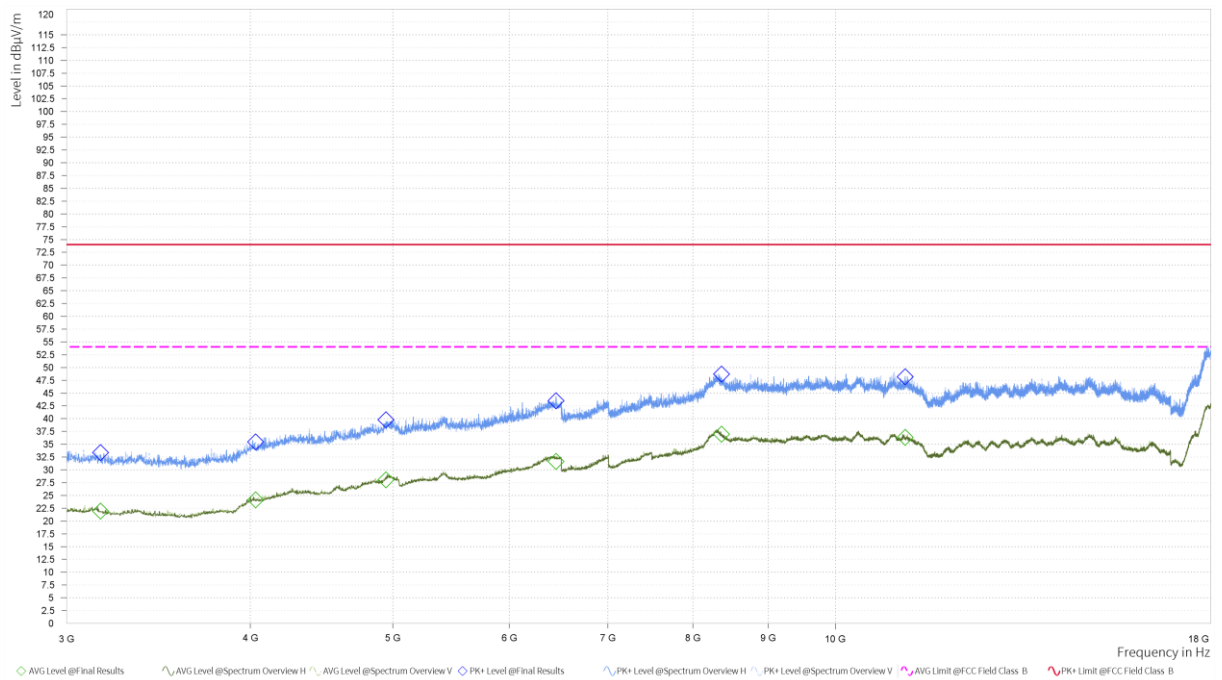


Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,101.250	46.89	74.00	27.11	35.20	54.00	18.80	-5.62	V	101.1	2.00	1.000
1,195.750	48.55	74.00	25.45	36.99	54.00	17.01	-4.77	V	135.2	2.00	1.000
1,395.500	44.67	74.00	29.33	32.12	54.00	21.88	-4.47	H	284.9	1.00	1.000
1,627.500	46.10	74.00	27.90	37.33	54.00	16.67	-4.21	H	164	2.00	1.000
2,280.750	51.70	74.00	22.30	45.39	54.00	8.61	-0.74	H	358.4	2.00	1.000
2,601.000	51.12	74.00	22.88	42.02	54.00	11.98	0.51	H	342.2	2.00	1.000

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Spectrum Overview H/V

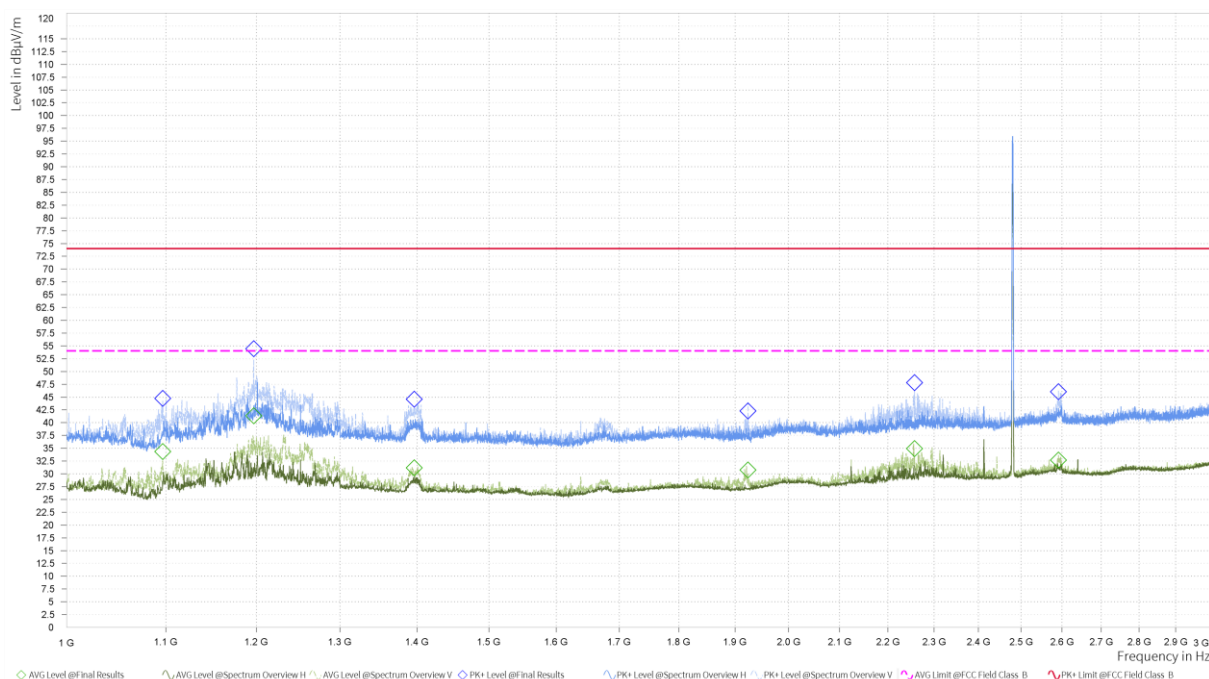


Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,163.125	33.34	74.00	40.66	21.91	54.00	32.09	-7.89	H	41.8	1.00	1.000
4,033.125	35.42	74.00	38.58	24.09	54.00	29.91	-5.46	V	126.6	1.00	1.000
4,946.250	39.77	74.00	34.23	28.04	54.00	25.96	-1.15	H	219.3	1.00	1.000
6,455.625	43.49	74.00	30.51	31.62	54.00	22.38	1.35	H	295.9	2.00	1.000
8,364.375	48.65	74.00	25.35	36.96	54.00	17.04	5.72	V	115.5	2.00	1.000
11,154.375	48.13	74.00	25.87	36.33	54.00	17.67	7.18	H	108.5	1.00	1.000

Radiates Emission from 3GHz to 18GHz

NearLink SLE 2480MHz

Spectrum Overview H/V

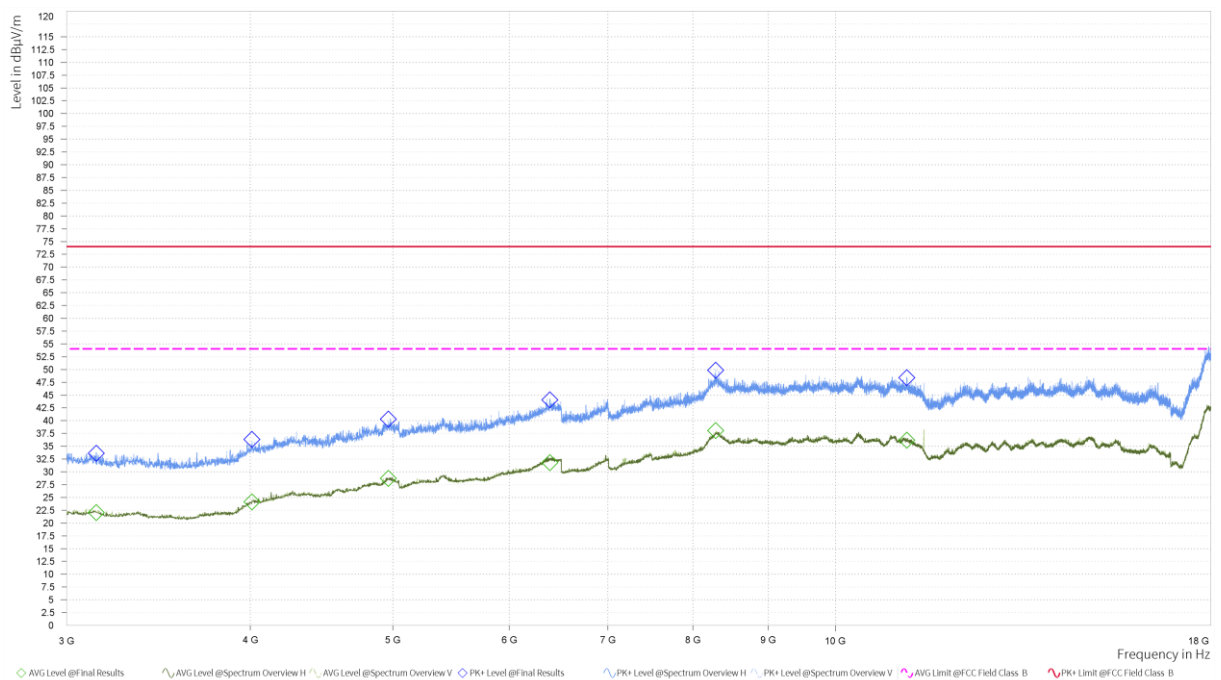


Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
1,096.750	44.72	74.00	29.28	34.33	54.00	19.67	-5.61	V	156.7	1.00	1.000
1,196.750	54.43	74.00	19.57	41.33	54.00	12.67	-4.75	V	156.7	1.00	1.000
1,396.250	44.55	74.00	29.45	31.15	54.00	22.85	-4.47	V	299.7	1.00	1.000
1,923.500	42.24	74.00	31.76	30.71	54.00	23.29	-2.78	V	306.1	2.00	1.000
2,257.250	47.80	74.00	26.20	34.91	54.00	19.09	-0.95	V	346.9	2.00	1.000
2,591.750	46.00	74.00	28.00	32.64	54.00	21.36	0.55	V	357.7	1.00	1.000

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Spectrum Overview H/V



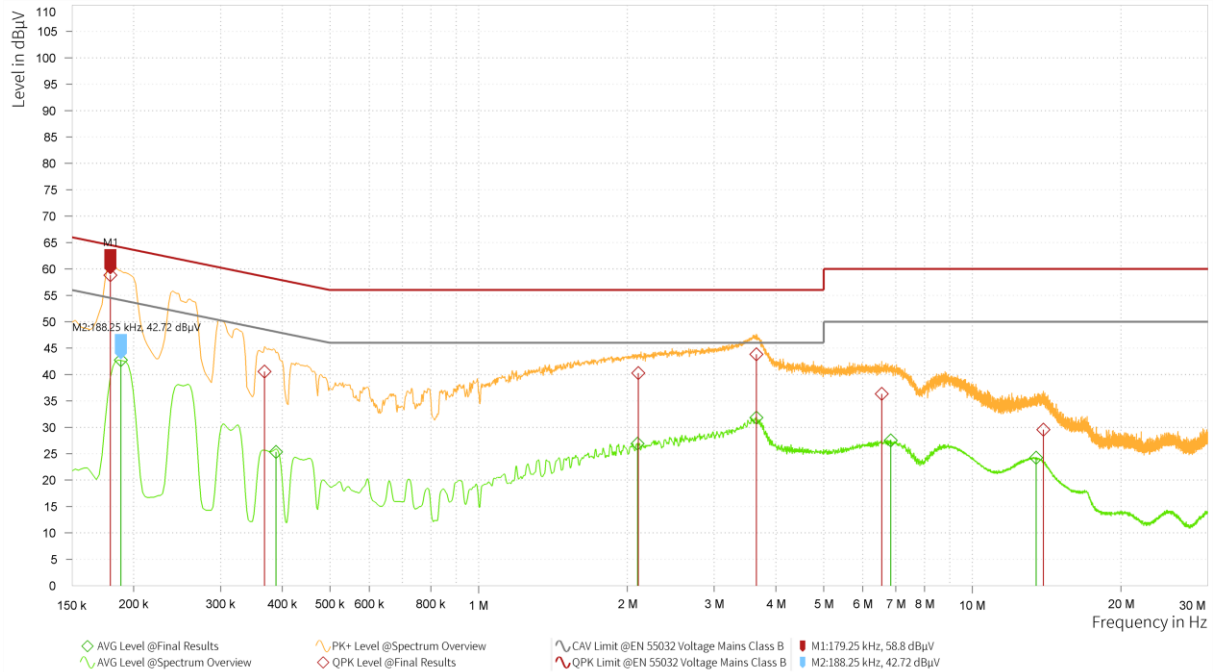
Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]
3,142.500	33.58	74.00	40.42	21.99	54.00	32.01	-7.71	H	133	1.00	1.000
4,010.625	36.30	74.00	37.70	24.12	54.00	29.88	-5.48	V	43.7	2.00	1.000
4,965.000	40.30	74.00	33.70	28.72	54.00	25.28	-0.83	V	308.9	2.00	1.000
6,393.750	44.04	74.00	29.96	31.76	54.00	22.25	1.60	H	184.9	1.00	1.000
8,289.375	49.85	74.00	24.15	38.02	54.00	15.98	6.67	V	279	2.00	1.000
11,180.625	48.37	74.00	25.63	36.14	54.00	17.86	7.36	H	8.7	1.00	1.000

Radiates Emission from 3GHz to 18GHz

2. Conducted Emission

2.1. NearLink SLE

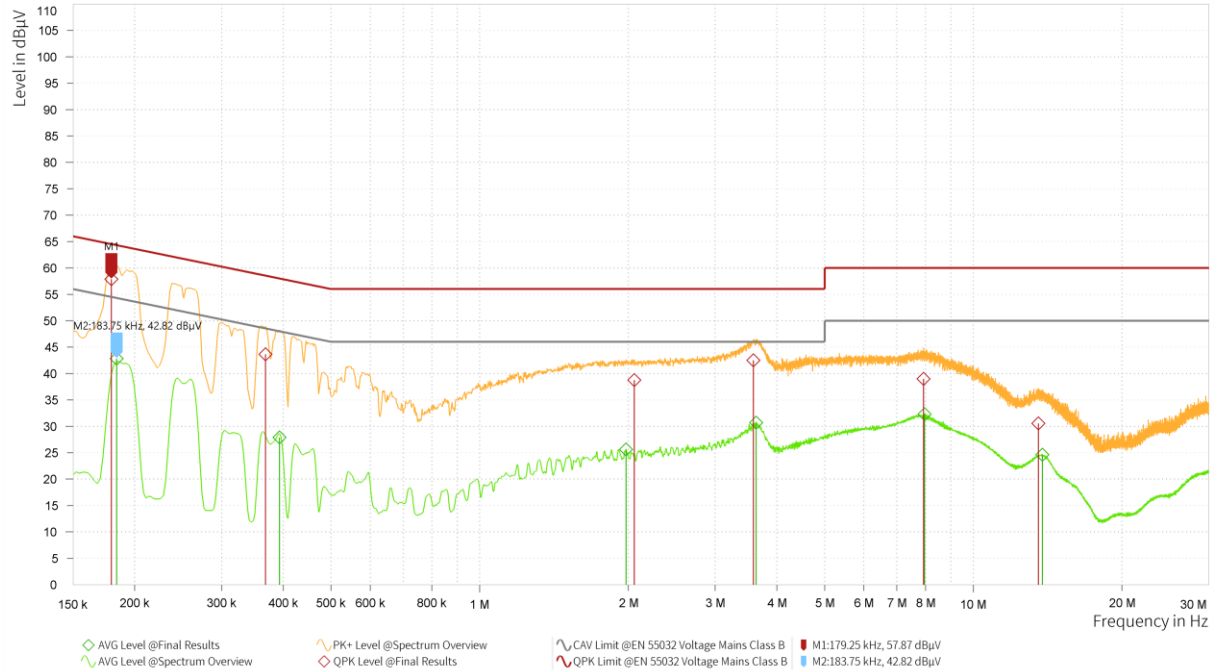
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



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]
0.179	58.80	64.52	5.72				21.03	L1	9.000	1.000
0.188				42.72	54.11	11.39	21.02	L1	9.000	1.000
0.368	40.55	58.54	17.99				20.91	L1	9.000	1.000
0.389				25.35	48.10	22.74	20.89	L1	9.000	1.000
2.099				26.91	46.00	19.09	19.62	L1	9.000	1.000
2.105	40.29	56.00	15.71				19.62	L1	9.000	1.000
3.651				31.82	46.00	14.18	19.44	L1	9.000	1.000
3.653	43.83	56.00	12.17				19.44	L1	9.000	1.000
6.554	36.31	60.00	23.69				19.40	L1	9.000	1.000
6.835				27.52	50.00	22.48	19.41	L1	9.000	1.000
13.475				24.24	50.00	25.76	19.46	L1	9.000	1.000
13.931	29.53	60.00	30.47				19.47	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]
0.179	57.87	64.52	6.65				21.04	N	9.000	1.000
0.184				42.82	54.31	11.49	21.04	N	9.000	1.000
0.368	43.65	58.54	14.89				20.92	N	9.000	1.000
0.393				27.88	48.00	20.12	20.89	N	9.000	1.000
1.979				25.60	46.00	20.40	19.66	N	9.000	1.000
2.056	38.75	56.00	17.25				19.64	N	9.000	1.000
3.586	42.50	56.00	13.50				19.45	N	9.000	1.000
3.631				30.71	46.00	15.29	19.45	N	9.000	1.000
7.928	38.98	60.00	21.02				19.41	N	9.000	1.000
7.962				32.29	50.00	17.71	19.41	N	9.000	1.000
13.542	30.54	60.00	29.46				19.49	N	9.000	1.000
13.808				24.64	50.00	25.36	19.50	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz