

EMC TEST REPORT

Applicant	Nokia Shanghai Bell Co., Ltd.
FCC ID	2ADZRG1425GE
Product	Nokia ONT
Brand	NOKIA
Model	G-1425G-E
Report No.	R2312A1383-E1V1
Issue Date	August 16, 2024

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC Code CFR47 Part15B (2023)/ ANSI C63.4-2014**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Table of Contents

1	Test Laboratory	5
1.1	Notes of the Test Report.....	5
1.2	Test Facility.....	5
1.3	Testing Location.....	5
2	General Description of Equipment Under Test	6
2.1	Applicant and Manufacturer Information	6
2.2	General Information	6
2.3	Applied Standards	9
2.4	Test Mode	10
3	Test Case Results	11
3.1	Radiated Emission.....	11
3.2	Conducted Emission.....	22
4	Uncertainty Measurement.....	27
5	Main Test Instruments	28
	ANNEX A: The EUT Appearance	29
	ANNEX B: Test Setup Photos	30

Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	March 21, 2024
Rev.1	Updated information.	August 16, 2024
Note: This revised report (Report No.: R2312A1383-E1V1) supersedes and replaces the previously issued report (Report No.: R2312A1383-E1). Please discard or destroy the previously issued report and dispose of it accordingly.		

Summary of measurement results

Number	Test Case	Clause in FCC Rules	Conclusion
1	Radiated Emission	FCC Part15.109, ANSI C63.4-2014	PASS
2	Conducted Emission	FCC Part15.107, ANSI C63.4-2014	PASS
Date of Testing: December 21, 2023 ~ December 26, 2023			
Date of Sample Received: December 14, 2023			
Note: All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.			

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

1.3 Testing Location

Company:	Eurofins TA Technology (Shanghai) Co., Ltd.
Address:	Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
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2 General Description of Equipment Under Test

2.1 Applicant and Manufacturer Information

Applicant	Nokia Shanghai Bell Co., Ltd.
Applicant address	No.388, Ningqiao Rd, Pilot Free Trade Zone, Shanghai, 201206 P.R. China
Manufacturer	Nokia of America Corporation
Manufacturer address	2301 Sugar Bush Rd. Raleigh, NC 27612

2.2 General Information

EUT Description			
Device Type	Fixed Device		
Model	G-1425G-E		
SN	ALCLB43F4492		
HW Version	3TN 00674 AAAA		
SW Version	3TN00702FJLI48		
Power Rating	12V		
Connecting I/O Port(s)	Please refer to the User's Manual.		
Antenna Type	External Antenna		
Frequency	Band	Tx (MHz)	Rx (MHz)
	Wi-Fi 2.4G	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 5G (U-NII-1)	5150 ~ 5250	5150 ~ 5250
	Wi-Fi 5G (U-NII-2A)	5250 ~ 5350	5250 ~ 5350
	Wi-Fi 5G (U-NII-2C)	5470 ~ 5725	5470 ~ 5725
	Wi-Fi 5G (U-NII-3)	5725 ~ 5850	5725 ~ 5850
EUT Accessory			
Adapter 1	Manufacturer: Ruide Model: RD1201000-C55-35MGD Input: 100-240V~50/60Hz 0.5A Output: 12.0V ---1.0A		
Adapter 2	Manufacturer: Keli Model: KL-WA120100-E Input: 100-240V~50/60Hz 0.5A Output: 12.0V ---1.0A		
Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.			

Hardware code information

ONT Mnemonic	Kit Code	EMA Code	Part Description
1	3TN 00683 XXXX (Code can be any capital letter from A to Z)	3TN 00673 XXXX (Code can be any capital letter from A to Z)	GPON ONT,4XGE UNI,1POTS, WIFI 5,2x2 11n + 2x2 11ac

Information of configuration

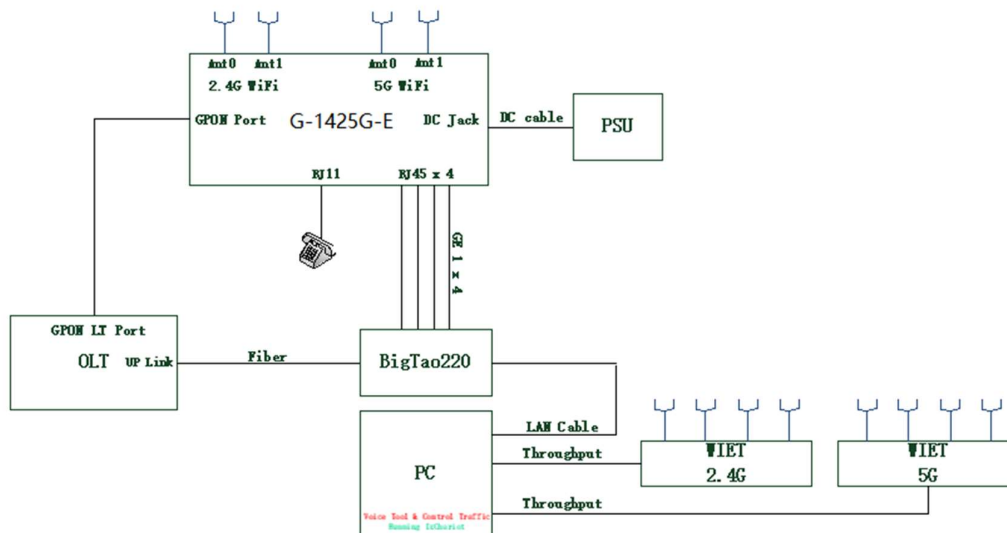
No.	Name	Model/Code No.	Edition	Serial No.
1	G-1425G-E	3TN 00673 AAAA	PEM2	PEM
2	G-1425G-E	3TN 00673 BAAA	PEM2	PEM
3	Power adapter	RD1201000-C55-35MGD	-	PEM
4	Power adapter	RD1201000-C55-35OGD	-	PEM
5	Power adapter	RD1201000-C55 -35YGD	-	PEM
6	Power adapter	KL-WA120100-E	-	PEM
7	Power adapter	KL-WE120100-B	-	PEM
8	Power adapter	KL-WB120100-B	-	PEM

Auxiliary equipment details

No.	Name	Brand name	Model	NSB code	Valid Until
1	BigTao	XINERTEL	BigTao220	DE8708	No Cal. Required
2	PC	Lenovo	T61	7661MC4L3KW965	No Cal. Required
3	PC	Lenovo	T61	7661MC4L3KW959	No Cal. Required
5	7362 ISAM DF-16	NOKIA	3FE45632AAAA	YP1747F403F	No Cal. Required

Information of ports

No.	Port name	Test Number	Shielded or unshielded	Cable type (optic, twisted pair, etc.)	Max. Cable length
1	AC Power Port	1	unshielded	-	-
2	GE	4	unshielded	-	-
1	POTS	1	unshielded	-	-



2.3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards

FCC Code CFR47 Part15B (2023)

ANSI C63.4-2014

2.4 Test Mode

Test Mode	
Mode 1	Adapter + EUT + TEL/LAN/WAN + Wi-Fi2.4G/5G Streaming

Test Type	Test Mode	Worst Mode
Radiated Emission	Mode 1	Mode 1
Conducted Emission	Mode 1	Mode 1
During the test, the preliminary test was performed in all modes, the test data of the worst-case condition was recorded in this report.		

3 Test Case Results

3.1 Radiated Emission

Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:

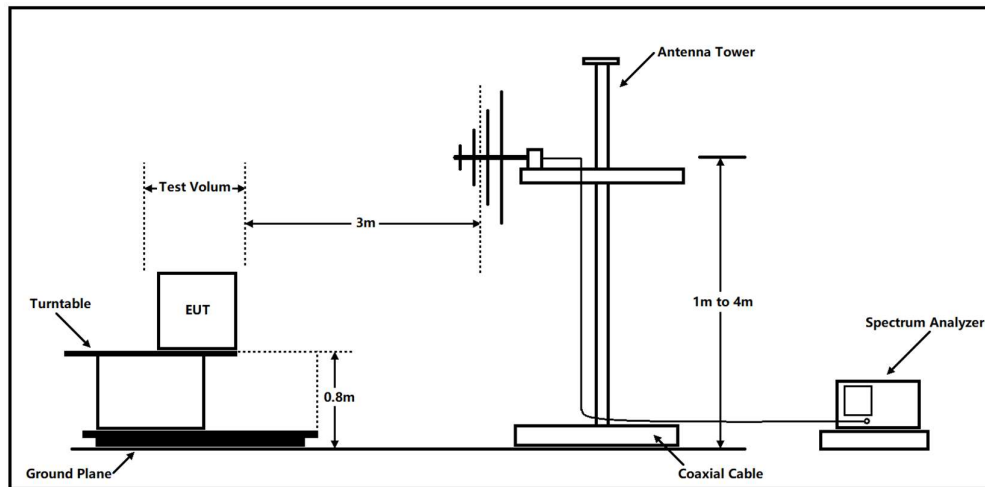
(a) PEAK Detector: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

(b) AVERAGE Detector: RBW=1MHz / VBW=3MHz / Sweep=AUTO

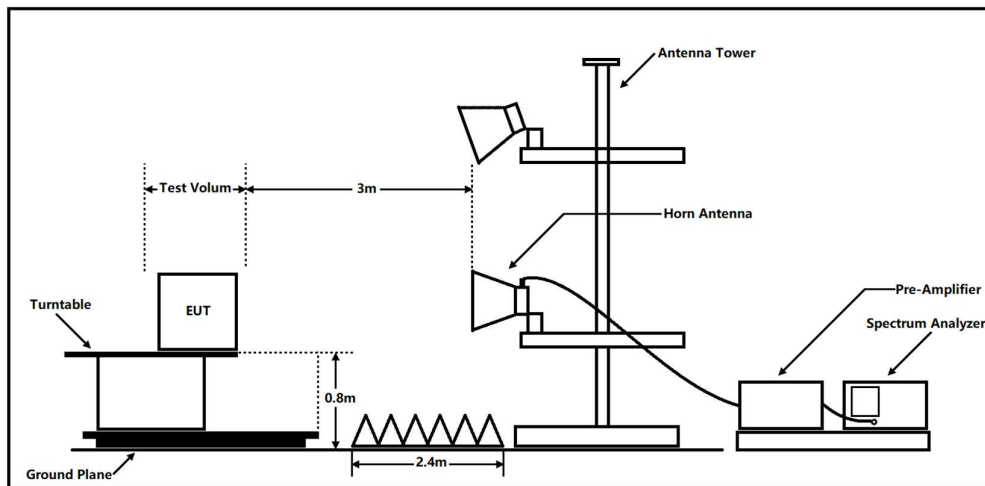
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

Test Setup

Below 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.

Limits

Class B

Frequency (MHz)	Field Strength (dB μ V/m)	Detector
30 -88	40.0	Quasi-peak
88-216	43.5	Quasi-peak
216 – 960	46.0	Quasi-peak
960-1000	54.0	Quasi-peak
1000-5 th harmonic of the highest frequency or 40GHz, which is lower	54 74	Average Peak

Frequency range of radiated measurements

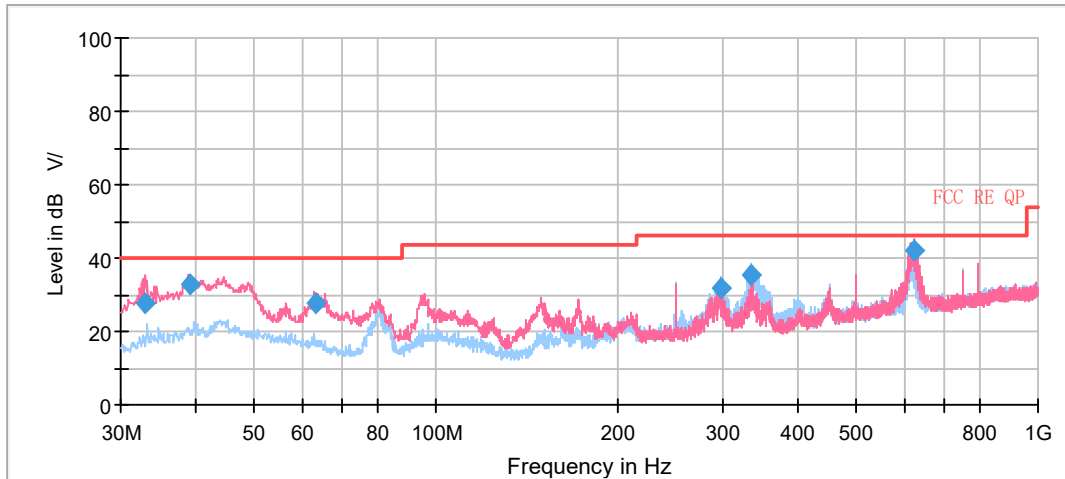
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. The Emissions in the frequency band 18GHz – 26.5GHz is more than 20dB below the limit are not reported.

The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.
A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means (dB $\mu\text{V/m}$)

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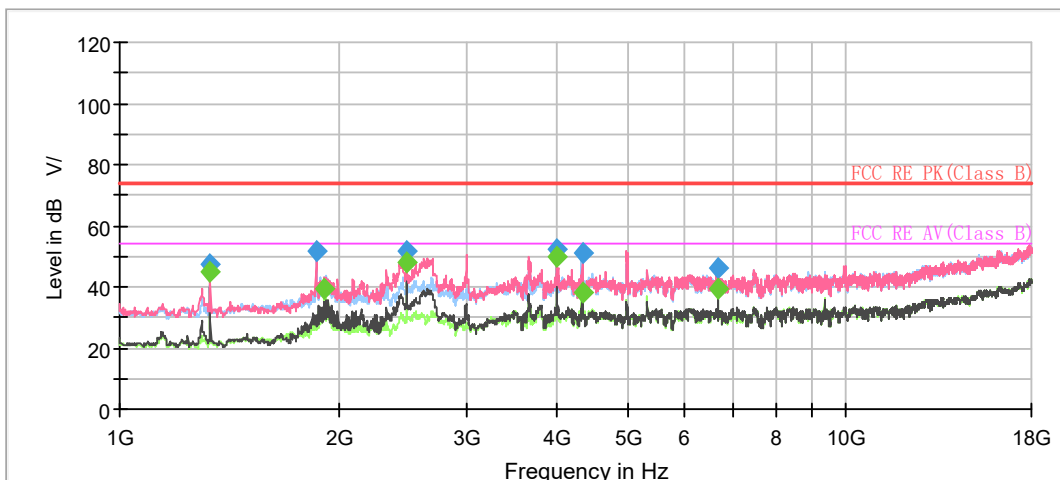


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB $\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
32.911250	27.44	40.00	12.56	175.0	V	225.0	17.6
39.051250	33.01	40.00	6.99	100.0	V	73.0	19.5
63.178750	27.57	40.00	12.43	100.0	V	146.0	18.6
298.325000	32.01	46.00	13.99	225.0	H	0.0	20.9
333.651250	35.53	46.00	10.47	175.0	H	0.0	21.8
623.030000	42.24	46.00	3.76	100.0	V	170.0	27.5

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

2. Margin = Limit – Quasi-Peak

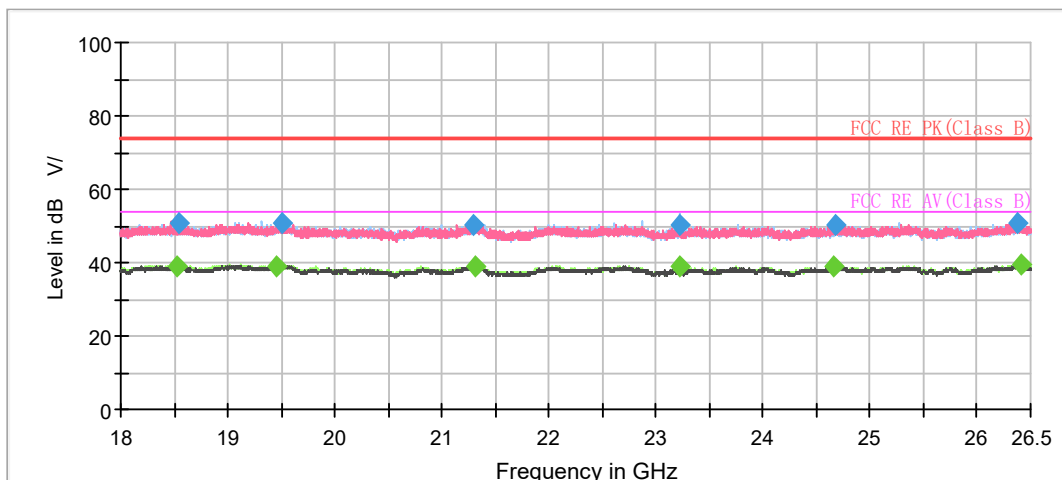


Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1332.913054	47.31	---	74.00	26.69	500.0	100.0	V	0.0	-16.3
1333.021239	---	44.65	54.00	9.35	500.0	100.0	V	0.0	-16.3
1866.206072	51.54	---	74.00	22.46	500.0	200.0	V	31.0	-13.3
1910.378370	---	39.13	54.00	14.87	500.0	100.0	H	335.0	-12.9
2488.069016	51.44	---	74.00	22.56	500.0	200.0	V	193.0	-10.4
2488.305328	---	47.82	54.00	6.18	500.0	200.0	V	193.0	-10.4
3999.079718	---	49.70	54.00	4.30	500.0	200.0	V	354.0	-4.8
3999.139694	52.42	---	74.00	21.58	500.0	200.0	V	354.0	-4.8
4332.476520	---	37.89	54.00	16.11	500.0	200.0	H	350.0	-3.9
4332.958455	51.24	---	74.00	22.76	500.0	200.0	H	350.0	-3.9
6665.108365	46.27	---	74.00	27.73	500.0	200.0	V	0.0	-0.3
6665.258332	---	39.53	54.00	14.47	500.0	200.0	V	0.0	-0.3

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

2. Peak Margin = Limit –MAX Peak/ Average

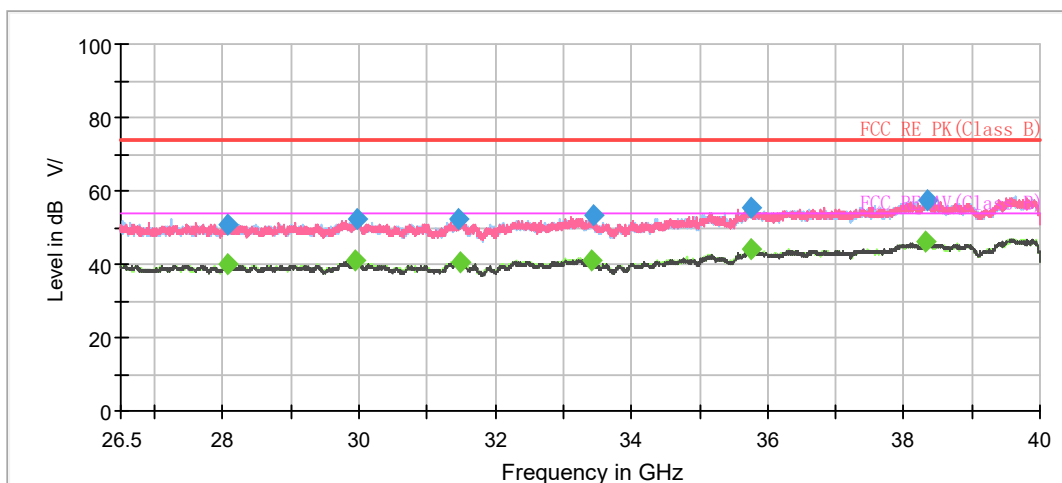


Radiated Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18528.062500	---	38.76	54.00	15.24	500.0	200.0	H	18.0	-3.0
18537.625000	50.68	---	74.00	23.32	500.0	200.0	H	0.0	-3.0
19460.937500	---	39.23	54.00	14.77	500.0	100.0	V	19.0	-2.8
19500.250000	50.61	---	74.00	23.39	500.0	100.0	V	74.0	-2.7
21303.312500	50.44	---	74.00	23.56	500.0	200.0	H	25.0	-1.8
21304.375000	---	39.17	54.00	14.83	500.0	200.0	H	205.0	-1.8
23223.250000	---	38.77	54.00	15.23	500.0	100.0	H	113.0	-1.8
23224.312500	50.19	---	74.00	23.81	500.0	100.0	H	113.0	-1.8
24667.187500	---	38.81	54.00	15.19	500.0	200.0	H	131.0	-0.6
24672.500000	50.48	---	74.00	23.52	500.0	200.0	H	18.0	-0.6
26374.625000	50.73	---	74.00	23.27	500.0	200.0	H	315.0	0.4
26405.437500	---	39.40	54.00	14.60	500.0	200.0	V	28.0	0.3

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

2. Peak Margin = Limit –MAX Peak/ Average



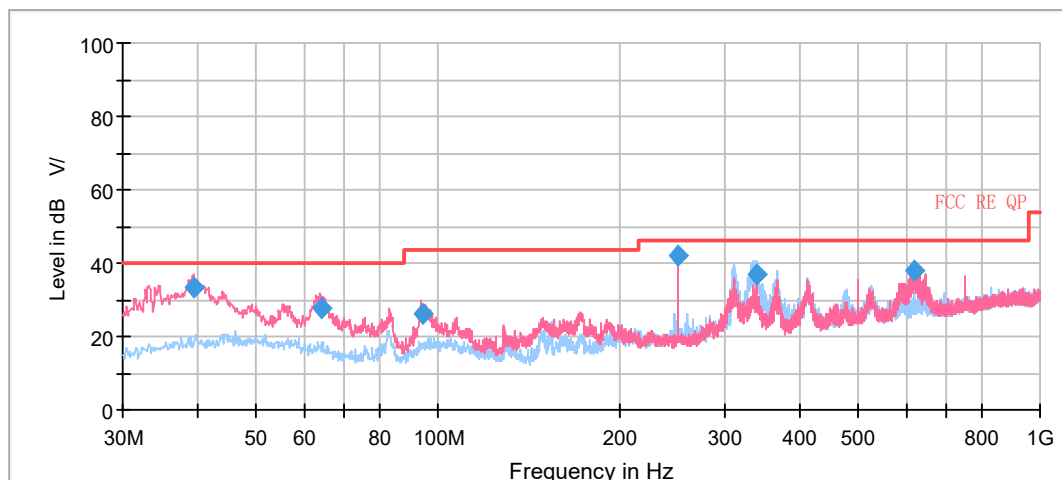
Radiated Emission from 26.5GHz to 40GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
28059.250000	---	39.77	54.00	14.23	500.0	200.0	H	260.0	0.6
28072.750000	50.76	---	74.00	23.24	500.0	100.0	V	214.0	0.6
29956.000000	---	40.88	54.00	13.12	500.0	200.0	H	25.0	1.4
29977.937500	52.13	---	74.00	21.87	500.0	200.0	H	75.0	1.4
31459.562500	52.13	---	74.00	21.87	500.0	200.0	V	0.0	0.0
31491.625000	---	40.56	54.00	13.44	500.0	200.0	H	13.0	-0.2
33412.000000	---	41.27	54.00	12.73	500.0	100.0	V	1.0	1.3
33435.625000	53.26	---	74.00	20.74	500.0	200.0	H	68.0	1.2
35759.312500	---	43.91	54.00	10.09	500.0	200.0	H	32.0	4.5
35761.000000	55.31	---	74.00	18.69	500.0	100.0	V	81.0	4.5
38320.937500	---	45.95	54.00	8.05	500.0	100.0	V	116.0	7.3
38354.687500	57.21	---	74.00	16.79	500.0	100.0	V	166.0	7.3

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

2. Peak Margin = Limit –MAX Peak/ Average

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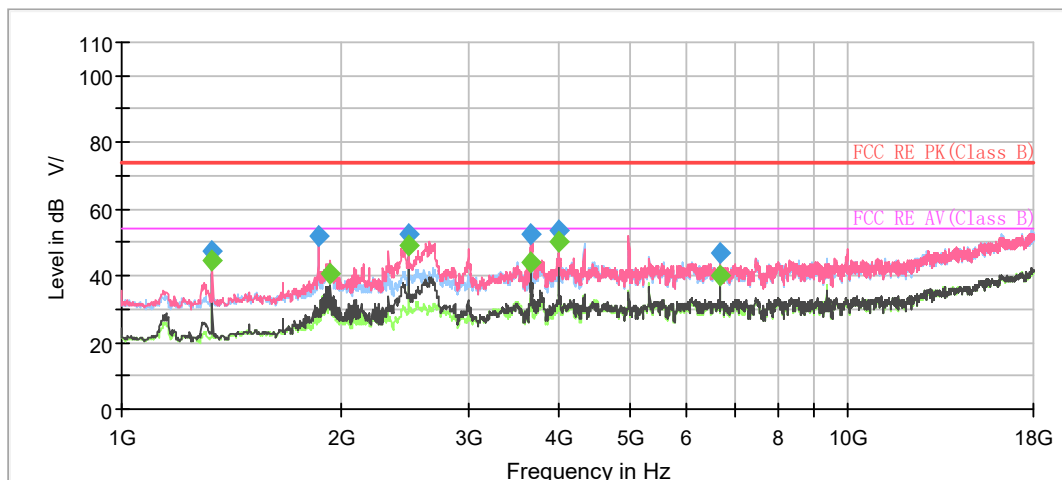


Radiated Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
39.256250	33.56	40.00	6.44	100.0	V	153.0	19.5
63.948750	27.64	40.00	12.36	100.0	V	0.0	18.4
94.620000	26.01	43.50	17.49	125.0	V	149.0	18.3
250.027500	41.83	46.00	4.18	110.0	H	82.0	20.5
337.536250	37.05	46.00	8.95	100.0	H	215.0	22.2
619.037500	37.94	46.00	8.06	100.0	V	173.0	27.3

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

2. Margin = Limit – Quasi-Peak

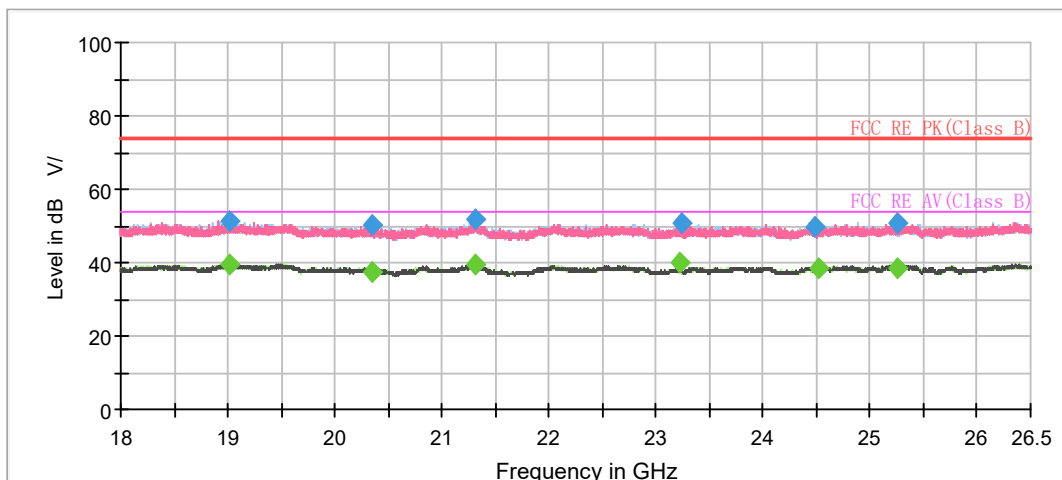


Radiated Emission from 1GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1333.131088	---	44.56	54.00	9.44	500.0	100.0	V	358.0	-16.3
1333.512229	47.52	---	74.00	26.48	500.0	100.0	V	358.0	-16.3
1866.199079	52.15	---	74.00	21.85	500.0	200.0	V	26.0	-13.3
1930.007288	---	40.37	54.00	13.63	500.0	100.0	V	11.0	-12.7
2488.320875	52.65	---	74.00	21.35	500.0	200.0	V	198.0	-10.4
2488.426594	---	49.24	54.00	4.76	500.0	200.0	V	198.0	-10.4
3665.377597	---	43.87	54.00	10.13	500.0	100.0	V	328.0	-5.7
3666.499942	52.61	---	74.00	21.39	500.0	200.0	V	336.0	-5.7
3999.089714	---	50.08	54.00	3.92	500.0	200.0	V	0.0	-4.8
3999.784436	53.84	---	74.00	20.16	500.0	200.0	V	0.0	-4.8
6665.091702	46.89	---	74.00	27.11	500.0	200.0	V	356.0	-0.3
6665.274995	---	40.06	54.00	13.94	500.0	200.0	V	356.0	-0.3

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

2. Peak Margin = Limit –MAX Peak/ Average

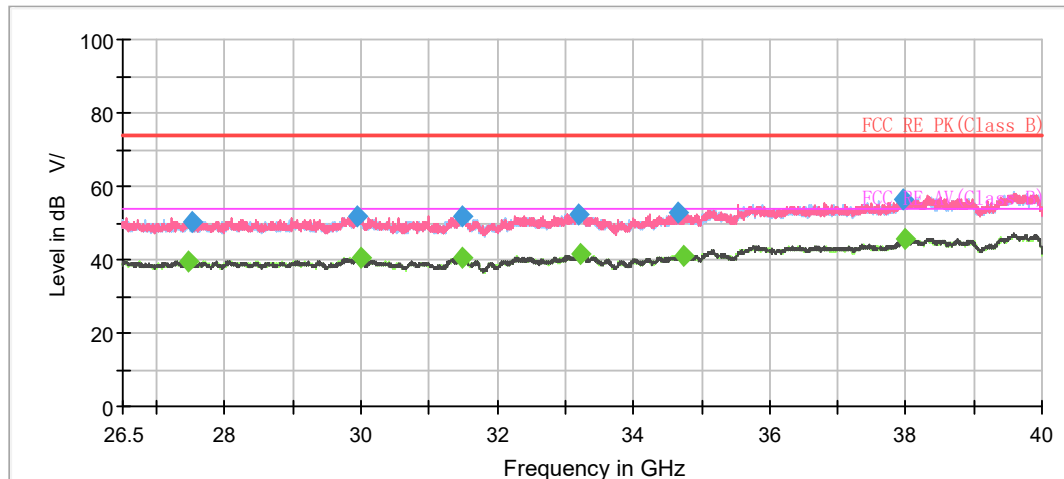


Radiated Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
19016.812500	---	39.44	54.00	14.56	500.0	200.0	H	24.0	-3.0
19024.250000	51.11	---	74.00	22.89	500.0	200.0	V	20.0	-3.0
20342.812500	50.49	---	74.00	23.51	500.0	200.0	V	353.0	-3.0
20349.187500	---	37.60	54.00	16.40	500.0	200.0	H	275.0	-3.0
21316.062500	51.65	---	74.00	22.35	500.0	200.0	V	311.0	-1.8
21317.125000	---	39.27	54.00	14.73	500.0	200.0	V	286.0	-1.8
23220.062500	---	40.13	54.00	13.87	500.0	200.0	V	336.0	-1.8
23236.000000	50.86	---	74.00	23.14	500.0	100.0	H	20.0	-1.7
24485.500000	49.55	---	74.00	24.45	500.0	100.0	H	237.0	-0.8
24517.375000	---	38.38	54.00	15.62	500.0	200.0	V	241.0	-0.7
25251.562500	50.71	---	74.00	23.29	500.0	200.0	V	139.0	0.1
25255.812500	---	38.41	54.00	15.59	500.0	200.0	H	67.0	0.1

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

2. Peak Margin = Limit –MAX Peak/ Average



Radiated Emission from 26.5GHz to 40GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
27472.000000	---	39.29	54.00	14.71	500.0	200.0	H	54.0	0.4
27529.375000	50.16	---	74.00	23.84	500.0	200.0	H	14.0	0.4
29956.000000	51.81	---	74.00	22.19	500.0	100.0	V	77.0	1.4
29994.812500	---	40.64	54.00	13.36	500.0	200.0	H	186.0	1.3
31489.937500	51.73	---	74.00	22.27	500.0	200.0	H	27.0	-0.1
31491.625000	---	40.50	54.00	13.50	500.0	200.0	H	317.0	-0.2
33207.812500	52.50	---	74.00	21.50	500.0	200.0	V	160.0	1.2
33234.812500	---	41.42	54.00	12.58	500.0	200.0	V	270.0	1.3
34650.625000	52.84	---	74.00	21.16	500.0	200.0	V	301.0	1.9
34728.250000	---	40.97	54.00	13.03	500.0	100.0	V	40.0	2.0
37958.125000	56.29	---	74.00	17.71	500.0	200.0	H	287.0	6.4
37985.125000	---	45.42	54.00	8.58	500.0	100.0	V	15.0	6.4

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

2. Peak Margin = Limit –MAX Peak/ Average

3.2 Conducted Emission

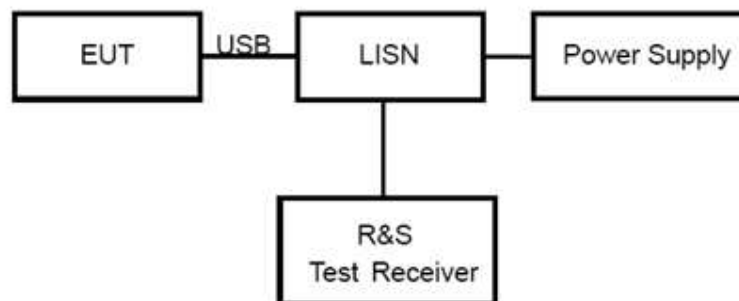
Ambient Condition

Temperature	Relative humidity
15°C ~ 35°C	30% ~ 60%

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 C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

Limits

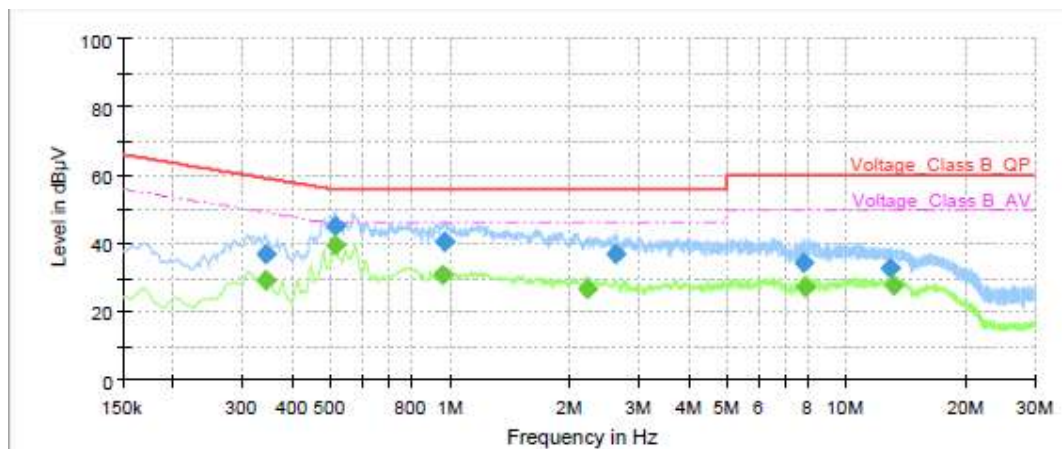
Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 to 56 *	56 to 46*
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50
*: Decreases with the logarithm of the frequency.				

Note: The EUT should meet CLASS B limit.

Test Results

Following plots, Blue trace uses the peak detection; Green trace uses the average detection.

Ruide

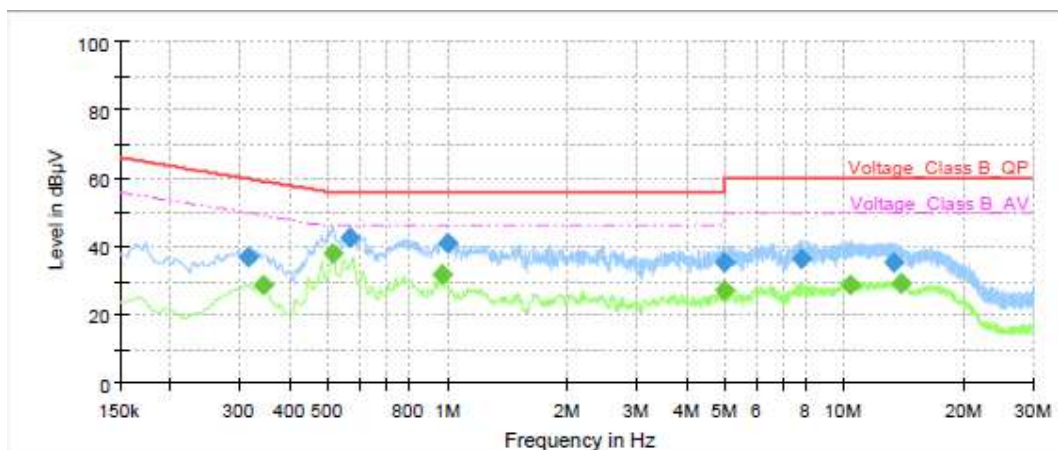


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.34	36.90	---	59.12	22.22	1000.0	9.000	L1	ON	21.0
0.35	---	29.30	49.06	19.76	1000.0	9.000	L1	ON	21.0
0.51	---	39.64	46.00	6.36	1000.0	9.000	L1	ON	20.9
0.51	44.93	---	56.00	11.07	1000.0	9.000	L1	ON	20.9
0.96	---	30.52	46.00	15.48	1000.0	9.000	L1	ON	20.3
0.97	40.54	---	56.00	15.46	1000.0	9.000	L1	ON	20.3
2.22	---	26.45	46.00	19.55	1000.0	9.000	L1	ON	19.7
2.63	36.77	---	56.00	19.23	1000.0	9.000	L1	ON	19.6
7.80	34.20	---	60.00	25.80	1000.0	9.000	L1	ON	19.5
7.94	---	27.05	50.00	22.95	1000.0	9.000	L1	ON	19.5
12.93	32.58	---	60.00	27.42	1000.0	9.000	L1	ON	19.6
13.27	---	27.47	50.00	22.53	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



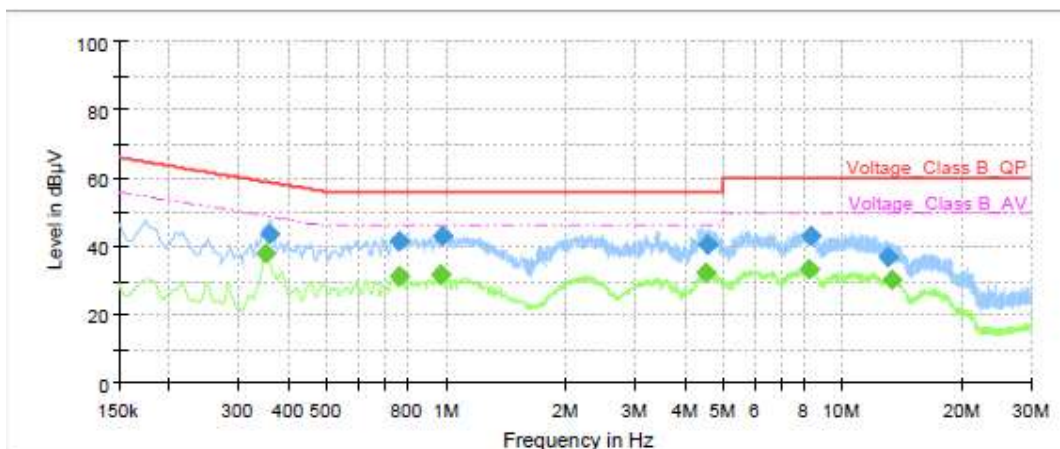
Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.31	36.92	---	59.86	22.94	1000.0	9.000	N	ON	21.0
0.35	---	28.58	49.06	20.48	1000.0	9.000	N	ON	21.0
0.52	---	38.11	46.00	7.89	1000.0	9.000	N	ON	20.9
0.57	42.38	---	56.00	13.62	1000.0	9.000	N	ON	20.8
0.97	---	31.60	46.00	14.40	1000.0	9.000	N	ON	20.3
1.00	41.09	---	56.00	14.91	1000.0	9.000	N	ON	20.2
5.00	---	27.00	46.00	19.00	1000.0	9.000	N	ON	19.5
5.00	35.40	---	56.00	20.60	1000.0	9.000	N	ON	19.5
7.80	36.42	---	60.00	23.58	1000.0	9.000	N	ON	19.5
10.42	---	28.82	50.00	21.18	1000.0	9.000	N	ON	19.6
13.31	35.42	---	60.00	24.58	1000.0	9.000	N	ON	19.6
13.92	---	29.04	50.00	20.96	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

Keli

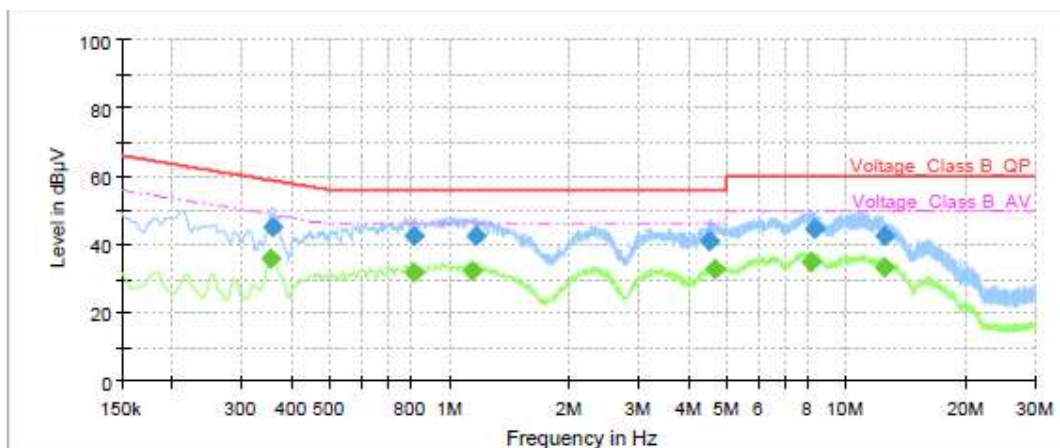


Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.35	---	37.79	48.90	11.11	1000.0	9.000	L1	ON	21.0
0.36	43.68	---	58.75	15.07	1000.0	9.000	L1	ON	21.0
0.76	41.79	---	56.00	14.21	1000.0	9.000	L1	ON	20.4
0.76	---	31.51	46.00	14.49	1000.0	9.000	L1	ON	20.4
0.98	---	31.78	46.00	14.22	1000.0	9.000	L1	ON	20.3
0.98	43.10	---	56.00	12.90	1000.0	9.000	L1	ON	20.3
4.55	---	32.24	46.00	13.76	1000.0	9.000	L1	ON	19.5
4.58	40.63	---	56.00	15.37	1000.0	9.000	L1	ON	19.5
8.28	---	33.45	50.00	16.55	1000.0	9.000	L1	ON	19.5
8.36	42.86	---	60.00	17.14	1000.0	9.000	L1	ON	19.5
13.10	37.12	---	60.00	22.88	1000.0	9.000	L1	ON	19.6
13.35	---	30.27	50.00	19.73	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)
0.36	---	36.11	48.80	12.69	1000.0	9.000	N	ON	21.0
0.36	45.31	---	58.75	13.44	1000.0	9.000	N	ON	21.0
0.81	---	31.61	46.00	14.39	1000.0	9.000	N	ON	20.4
0.81	42.64	---	56.00	13.36	1000.0	9.000	N	ON	20.4
1.14	---	32.26	46.00	13.74	1000.0	9.000	N	ON	20.1
1.18	42.57	---	56.00	13.43	1000.0	9.000	N	ON	20.1
4.53	41.11	---	56.00	14.89	1000.0	9.000	N	ON	19.5
4.68	---	32.68	46.00	13.32	1000.0	9.000	N	ON	19.5
8.20	---	34.98	50.00	15.02	1000.0	9.000	N	ON	19.5
8.39	44.71	---	60.00	15.29	1000.0	9.000	N	ON	19.5
12.47	---	33.42	50.00	16.58	1000.0	9.000	N	ON	19.6
12.48	42.58	---	60.00	17.42	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

4 Uncertainty Measurement

Case	Uncertainty	Factor k
Radiated Emission 30MHz – 200MHz	4.17 dB	1.96
Radiated Emission 200MHz – 1GHz	4.84 dB	1.96
Radiated Emission 1GHz – 18GHz	4.35 dB	1.96
Radiated Emission 18GHz – 26.5GHz	5.90 dB	1.96
Radiated Emission 26.5GHz – 40GHz	5.92 dB	1.96
Conducted Emission	2.57 dB	2

5 Main Test Instruments

Name of Equipment	Manufacturer	Type/Model	Serial Number	Calibration Date	Expiration Time
Radiated Emission					
EMI Test Receiver	R&S	ESR	102389	2023-05-12	2024-05-11
Signal 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
Amplifier	R&S	SCU18	10034	2023-05-12	2024-05-11
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
Amplifier	MicroWave	KLNA-18040050	220826001	2023-05-12	2024-05-11
Software	R&S	EMC32	9.26.01	/	/
Conducted Emission					
Artificial main network	R&S	ENV216	102191	2022-12-10	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2023-05-12	2024-05-11
Software	R&S	EMC32	10.35.10	/	/

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 *****