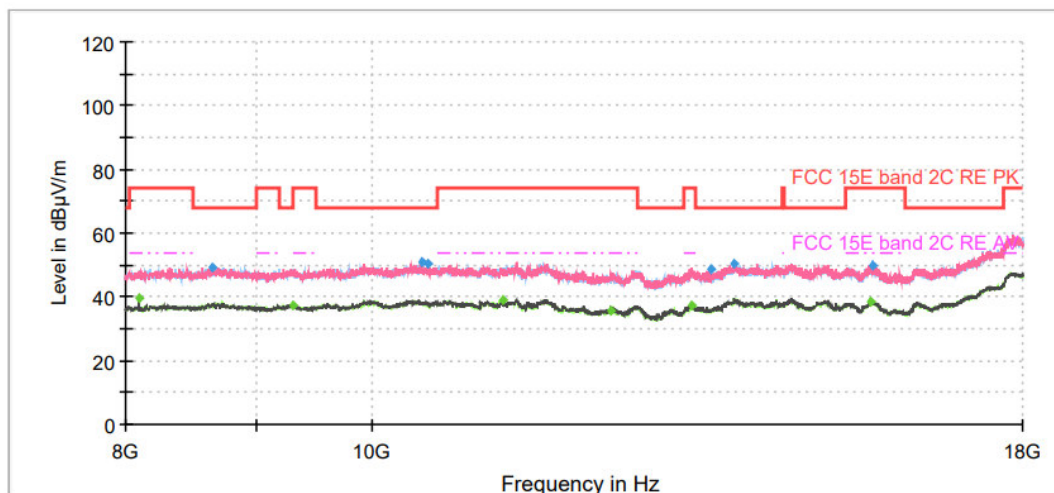


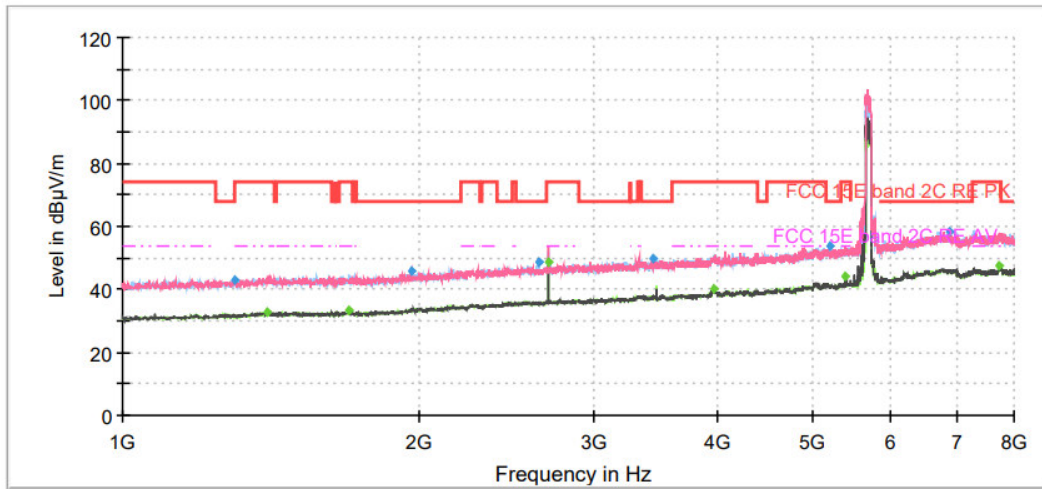


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8097.50	---	39.90	54.00	14.10	500.00	200.0	V	325.00	6
8657.50	49.46	---	68.20	18.74	500.00	200.0	H	80.00	7
9301.25	---	37.58	54.00	16.42	500.00	100.0	V	349.00	7
10455.00	50.67	---	68.20	17.53	500.00	200.0	V	45.00	8
10517.50	50.41	---	68.20	17.79	500.00	200.0	V	20.00	8
11245.00	---	39.30	54.00	14.70	500.00	200.0	H	304.00	9
12405.00	---	35.50	54.00	18.50	500.00	200.0	H	158.00	9
13337.50	---	37.64	54.00	16.36	500.00	200.0	V	202.00	9
13587.50	48.79	---	68.20	19.41	500.00	100.0	V	305.00	10
13867.50	50.42	---	68.20	17.78	500.00	200.0	H	188.00	11
15690.00	---	38.66	54.00	15.34	500.00	100.0	V	0.00	9
15708.75	49.85	---	74.00	24.15	500.00	200.0	V	15.00	9

Radiates Emission from 8GHz to 18GHz

802.11ac (VHT80) CH138



Final Result

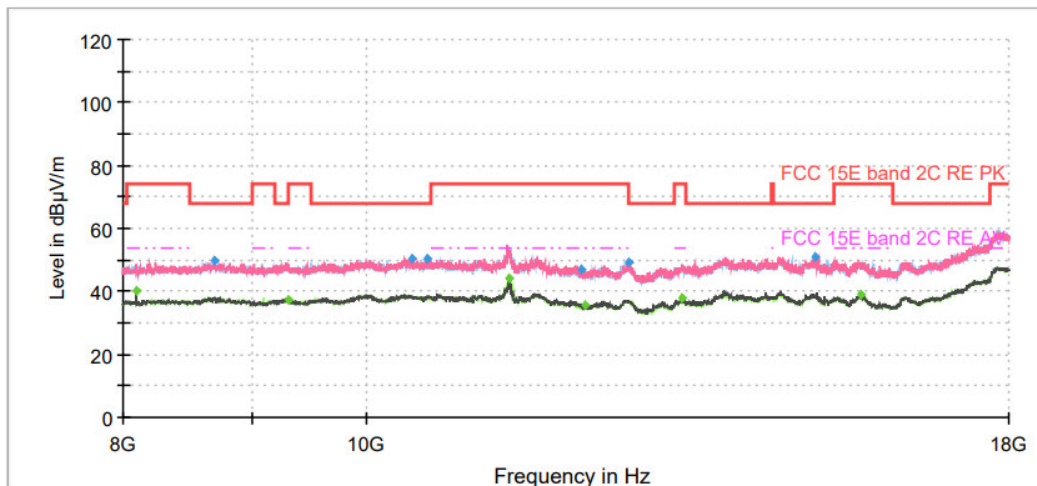
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1298.38	42.93	---	68.20	25.27	500.00	100.0	H	298.00	-4
1399.88	---	33.05	54.00	20.95	500.00	200.0	V	354.00	-3
1695.63	---	33.18	54.00	20.82	500.00	100.0	H	359.00	-2
1958.13	45.62	---	68.20	22.58	500.00	200.0	V	299.00	0
2643.25	48.40	---	68.20	19.80	500.00	100.0	H	94.00	2
2700.13	---	48.52	54.00	5.48	500.00	100.0	V	207.00	3
3449.13	49.86	---	68.20	18.34	500.00	200.0	V	2.00	4
3968.88	---	39.95	54.00	14.05	500.00	100.0	V	332.00	7
5207.88	53.54	---	68.20	14.66	500.00	100.0	H	124.00	10
5398.63	---	44.42	54.00	9.58	500.00	200.0	V	347.00	10
6875.63	58.34	---	68.20	9.86	500.00	200.0	V	0.00	14
7728.75	---	47.50	54.00	6.50	500.00	100.0	V	0.00	17

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz

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

2. Margin = Limit - MAX Peak/ Average

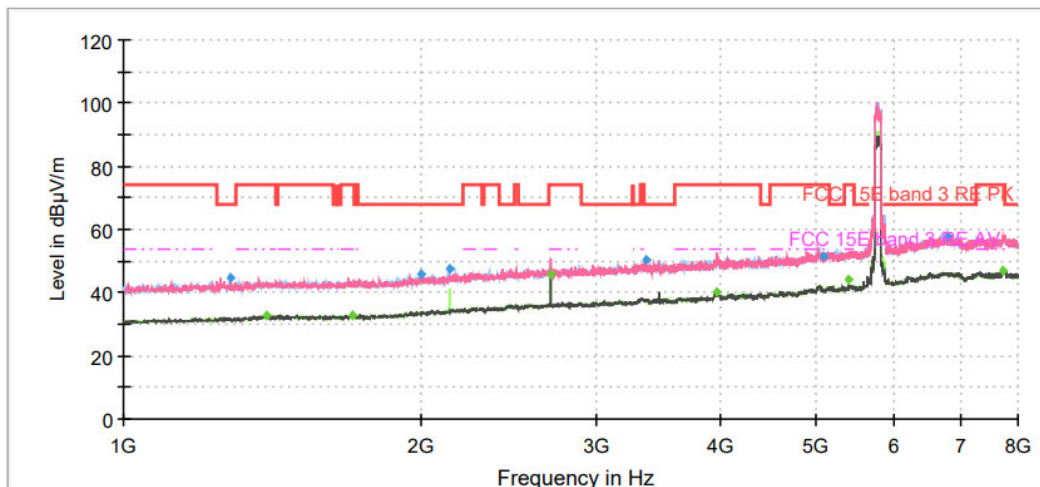


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8096.25	---	40.27	54.00	13.73	500.00	200.0	V	326.00	6
8691.25	49.79	---	68.20	18.41	500.00	100.0	V	174.00	7
9301.25	---	37.61	54.00	16.39	500.00	100.0	H	311.00	7
10430.00	50.36	---	68.20	17.84	500.00	200.0	H	303.00	8
10566.25	50.53	---	68.20	17.67	500.00	100.0	V	341.00	8
11388.75	---	44.35	54.00	9.66	500.00	200.0	H	303.00	9
12162.50	46.80	---	74.00	27.20	500.00	200.0	H	349.00	9
12206.25	---	35.64	54.00	18.36	500.00	100.0	V	354.00	9
12716.25	49.03	---	68.20	19.17	500.00	200.0	V	45.00	9
13336.25	---	38.04	54.00	15.96	500.00	200.0	V	36.00	9
15067.50	51.17	---	68.20	17.03	500.00	100.0	H	138.00	10
15707.50	---	39.07	54.00	14.93	500.00	200.0	H	0.00	9

Radiates Emission from 8GHz to 18GHz

802.11ac (VHT80) CH155

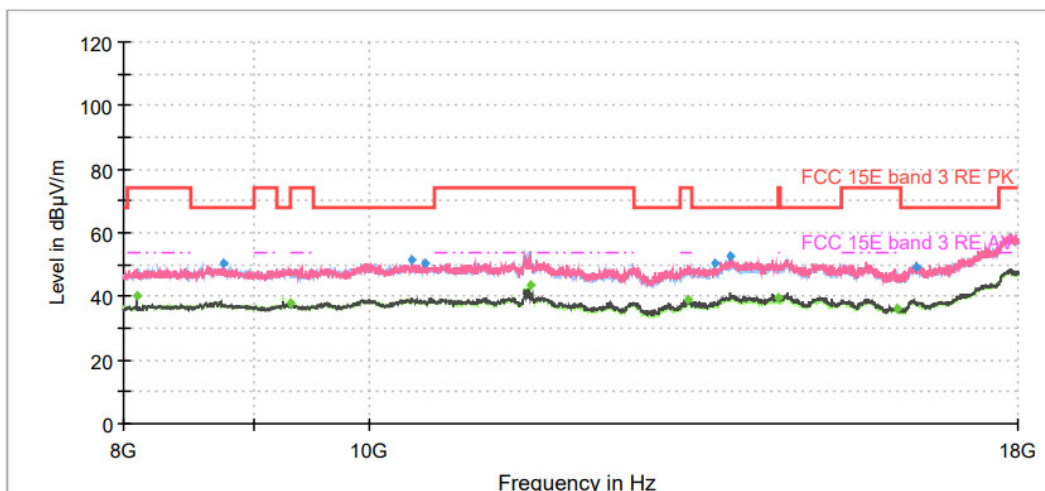


Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1281.75	44.63	---	68.20	23.57	500.00	200.0	V	46.00	-4
1392.00	---	32.86	54.00	21.14	500.00	200.0	H	358.00	-3
1703.50	---	32.96	54.00	21.04	500.00	100.0	V	0.00	-2
1997.50	45.72	---	68.20	22.48	500.00	100.0	H	107.00	0
2131.38	47.83	---	68.20	20.37	500.00	200.0	H	170.00	1
2700.13	---	45.61	54.00	8.39	500.00	100.0	V	332.00	3
3362.50	50.22	---	68.20	17.98	500.00	100.0	V	0.00	4
3970.63	---	40.02	54.00	13.99	500.00	200.0	V	0.00	7
5092.38	51.75	---	74.00	22.25	500.00	100.0	H	66.00	9
5402.13	---	43.90	54.00	10.10	500.00	200.0	H	318.00	10
6775.00	57.84	---	68.20	10.36	500.00	200.0	H	359.00	15
7734.00	---	47.08	54.00	6.92	500.00	200.0	V	300.00	17

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



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)
8097.50	---	40.41	54.00	13.59	500.00	200.0	V	325.00	6
8763.75	50.18	---	68.20	18.02	500.00	200.0	V	0.00	7
9302.50	---	37.66	54.00	16.34	500.00	100.0	V	330.00	7
10383.75	51.40	---	68.20	16.80	500.00	200.0	H	356.00	8
10516.25	50.14	---	68.20	18.06	500.00	100.0	V	70.00	8
11568.75	---	43.55	54.00	10.45	500.00	200.0	H	356.00	9
13343.75	---	38.84	54.00	15.16	500.00	100.0	V	70.00	9
13662.50	50.10	---	68.20	18.10	500.00	200.0	V	325.00	10
13871.25	52.53	---	68.20	15.67	500.00	100.0	V	180.00	11
14486.25	---	39.68	54.00	14.32	500.00	100.0	V	211.00	11
16417.50	49.16	---	68.20	19.04	500.00	200.0	V	56.00	9
16133.00	---	36.49	54.00	17.51	500.00	100.0	V	286.00	9

Radiates Emission from 8GHz to 18GHz

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

5. Margin = Limit –MAX Peak/ Average

5.6. Conducted Emission

Ambient condition

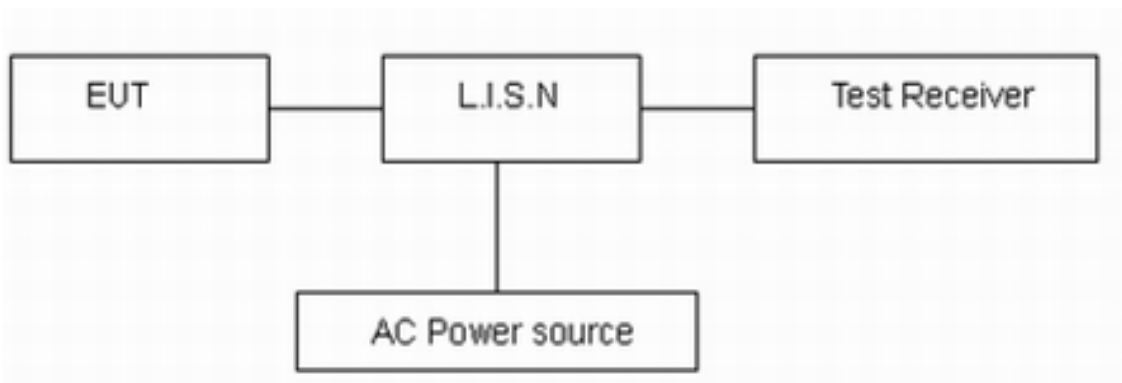
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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 C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

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

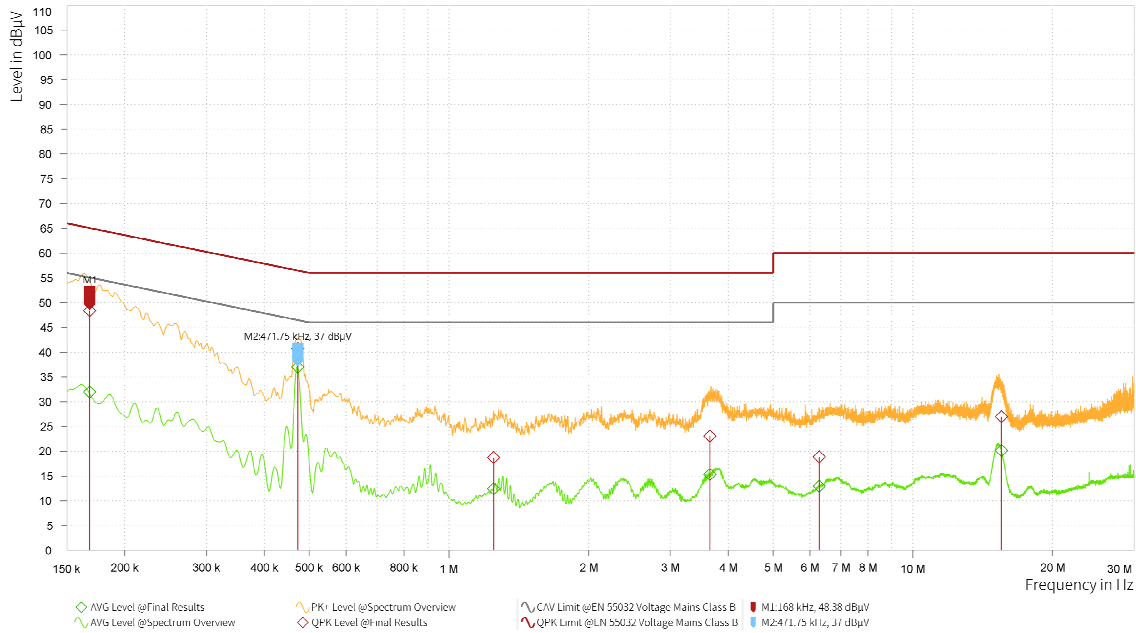
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

Test Results:

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

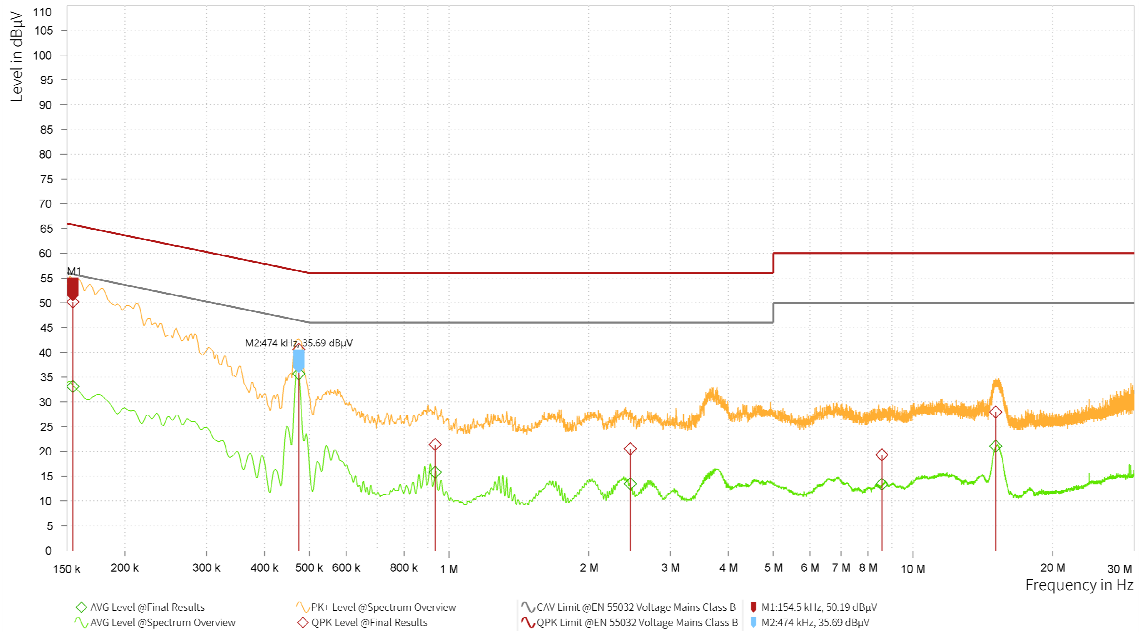
During the test, the Conducted Emission was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBµV)	QuasiPeak Limit (dBµV)	QuasiPeak Margin (dB)	Average (dBµV)	Average Limit (dBµV)	Average Margin (dB)	Corr. (dB)	Line	Bandwidth (kHz)	Meas. Time (ms)
0.168	48.38	65.06	16.68	31.96	55.06	23.09	20.89	L1	9.000	1.000
0.472	40.74	56.48	15.74	37.00	46.48	9.48	20.81	L1	9.000	1.000
1.248	18.71	56.00	37.29	12.41	46.00	33.59	19.98	L1	9.000	1.000
3.651	23.04	56.00	32.96	15.31	46.00	30.69	19.44	L1	9.000	1.000
6.284	18.89	60.00	41.11	12.95	50.00	37.05	19.40	L1	9.000	1.000
15.524	26.97	60.00	33.03	20.18	50.00	29.82	19.52	L1	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 kHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBμV)	QuasiPeak Limit (dBμV)	QuasiPeak Margin (dB)	Average (dBμV)	Average Limit (dBμV)	Average Margin (dB)	Corr. (dB)	Line	Bandwidth (kHz)	Meas. Time (ms)
0.155	50.19	65.75	15.56	33.13	55.75	22.62	20.91	N	9.000	1.000
0.474	40.56	56.44	15.88	35.69	46.44	10.75	20.81	N	9.000	1.000
0.933	21.38	56.00	34.62	15.79	46.00	30.21	20.22	N	9.000	1.000
2.459	20.55	56.00	35.45	13.49	46.00	32.51	19.56	N	9.000	1.000
8.572	19.29	60.00	40.71	13.37	50.00	36.63	19.42	N	9.000	1.000
15.086	27.92	60.00	32.08	21.05	50.00	28.95	19.54	N	9.000	1.000
0.155	50.19	65.75	15.56	33.13	55.75	22.62	20.91	N	9.000	1.000
0.474	40.56	56.44	15.88	35.69	46.44	10.75	20.81	N	9.000	1.000
0.933	21.38	56.00	34.62	15.79	46.00	30.21	20.22	N	9.000	1.000
2.459	20.55	56.00	35.45	13.49	46.00	32.51	19.56	N	9.000	1.000
8.572	19.29	60.00	40.71	13.37	50.00	36.63	19.42	N	9.000	1.000

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 kHz to 30 MHz

6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power sensor	R&S	NRP18S	101954	2024-05-08	2025-05-07
				2024-05-08	2025-05-07
Spectrum Analyzer	KEYSIGHT	N9020A	MY50510203	2024-12-02	2025-12-01
DC Power Supply	UNI-T	UTP1306S+	2205D051742 6	2024-12-02	2025-12-01
Climate Chamber	ESPEC	SU-242	93000506	2024-12-02	2025-12-01
Unwanted Emissions					
EMI Test Receiver	R&S	ESCI3	100948	2024-05-07	2025-05-06
				2025-05-07	2026-05-06
Signal Analyzer	R&S	FSV40	101186	2024-05-07	2025-05-06
				2025-05-06	2026-05-05
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	SCHWARZBECK	BBHA 9120D	430	2024-07-18	2027-07-17
Amplifier	MWPA.CN	MWLA-010 200G40	YQ2103039B 01	2024-05-07	2025-05-06
	R&S	SCU18F	101022	2025-05-06	2026-05-05
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Horn Antenna	STEATITE	QSH-SL-26 -40-K-15	16779	2023-01-17	2026-01-16
Amplifier	MicroWave	KLNA-1804 0050	220826001	2024-05-08	2025-05-07
				2025-05-06	2026-05-05
Software	R&S	EMC32	9.26.01	/	/
Conducted Emissions					
Artificial main network	R&S	ENV216	102191	2024-12-02	2026-12-01
EMI Test Receiver	R&S	ESR	101667	2025-05-06	2026-05-05
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 *****