SEQAL

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FCC TEST REPORT

Model : SM-L355U
Variant Model : SM-L355F
FCC ID : A3LSML355
Application Type : Certification
EUT Type : Wearable Devices

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1. Report Information

1.1 Revision History

No.	Revised Detailed Information.
Issue 1	There is no revisions and this version is basic test report.

2. General Information

APPLICANT:	SAMSUNG Electronics Co., Ltd
APPLICANT ADDRESS:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
TEST SITE:	SEQAL Korea
TEST SITE ADDRESS:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
FCC Designation Number	KR0028
FCC RULE PART(S)	47 CFR Part 15.B
TEST PROCEDURE(S):	ANSI C63.4-2014
MODEL NAME:	SM-L355U
FCC ID:	A3LSML355
DATE(S) OF RECEIPT:	2026.04.02
DATE(S) OF TEST:	2026.04.02 ~ 2026.04.14
TEST DEVICE JOB NO.:	FX-006
TEST DEVICE SERIAL NO.:	Sample #1 : R2GL10PW61T Sample #2 : R3GL10PW6MP

Samsung Electronics Quality Assurance Lab is accredited and designated in accordance with the provisions of Radio Wave Act and International Standard ISO/IEC 17025 by the National Radio Research Agency with designation No. KR0028. for EMC testing.

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3. PRODUCT INFORMATION

3.1 Equipment Description

The Equipment Under Test (EUT) is the SM-L355U

The test data contained in this report pertains only to the emissions due to the digital circuitry of the EUT.

3.2 Device Capabilities

This device contains the following capabilities:

Operation Band(s):

-WCDMA FDD I/ II/ IV/ V/ VIII

-LTE FDD 1/2/3/4/5/7/8/12/13/14/18/19/20/25/26/28/66/71 TDD 34/38/39/40/41

Additional Capabilities:

-Bluetooth, Audio, GNSS, NFC, Wireless Charging, WiFi(802.11a/n/b/g)

3.3 Emission

Applied	Test type	Applied standard	Result
■	Conducted Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014 (Class B)	Complied
■	Radiated Disturbance		Complied

Table 3-3. Emission

3.4 Test Configuration and Condition

The system was configured for testing in a typical fashion that a customer would normally use.
Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables.

The audio was repetitively played 1KHz sound.

The EUT was investigated in three orientations and the worst case orientation is reported

The EUT was charged with Wireless Charger connected to Travel Adapter and USB port of Laptop Computer.

Cellular Rx mode conducted testing was performed with the LTE FDD 5 mode at center frequency.
All licensed communication Cellular Rx mode, WCDMA/LTE test results are not significantly different.

Power source for the EUT operating was supplied by CVCF made by Digitek Power and AC Power Korea

Test Voltage : AC 120 V, 60 Hz

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3.5 EUT operating mode

To achieve compliance applied standard specification including CXX, JAB requirement, the following mode(s) were made during compliance testing:

※ Remark

Compliance with Part 15B(Section 15.107 Conducted limits) requirements for the receiver part of the licensed transmitter(equipment code CXX) is covered by this test report.

3.5.1 Radiated Emission

No.	Operating mode
1	Wireless Charging (w/TA)
2	Audio playback from internal memory data
3	Wireless Charging (w/USB port of Laptop Computer)

3.5.2 Conducted Emission

No.	Operating mode
1	Cellular receiver (LTE B5 Center Frequency) + Wireless Charging (w/TA)
2	Audio playback from internal memory data + Wireless Charging (w/TA)
3	Wireless Charging (w/USB port of Laptop Computer)

3.5.3 EUT Frequency

The highest Frequency	Frequency[MHz]
Wi-Fi	5,885

Note: Upper frequency of measurement range(MHz): 5th harmonic of the highest frequency or 40GHz, whichever is lower.

3.6 Test Condition

Max Temperature	**24.4℃**
Max Humidity	**49.3%**

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3.7 Identification of Samples Tested

Date of Receipt	Identification Number:	Information of samples:
2026.04.02	FX-006-1	#1
2026.04.02	FX-006-2	#2

3.8 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

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4. DESCRIPTION OF TEST

4.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment on the Range of 150KHz to 40GHz(ANSI C63.4- 2014) was used in the measurement of SM-L355U

4.2 AC Line Conducted Emissions

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration / arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 6.3. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is TOYO ES10-CE, Version 2022.07

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4.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

Automated test software, TOYO ES10-RE, Version 2022.07, was used to perform the radiated emissions testing.

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5. TEST EQUIPMENT CALIBRATION AND UNCERTAINTY

5.1 Measuring instrument calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

TEST EQUIPMENT LIST				
Description	**Model**	**Manufacturer**	**Date of next Calibration**	**S/N**
BILOG Antenna	CBL 6112D	TESEQ	2028-03-06	36010
BILOG Antenna	CBL 6112D	TESEQ	2026-12-12	36011
BILOG Antenna	CBL 6112D	TESEQ	2027-11-05	36012
6dB Attenuator	50HF-006	JFW	2026-06-04	0644
HORN Antenna	HF907	R&S	2027-12-05	100492
HORN Antenna	HF907	R&S	2026-06-05	100579
Pre-amplifier (30MHz to 1GHz)	310	Sonoma	2026-07-29	304577
Pre-amplifier (1GHz to 18GHz)	SCU-18	R&S	2026-08-05	10216
Pre-amplifier (1GHz to 18GHz)	SCU-18F	R&S	2027-04-03	100944
HORN Antenna & Pre-amplifier assembly (18GHz to 26.5GHz)	HAP18-26N	Flann	2026-04-19	216249
HORN Antenna & Pre-amplifier assembly (18GHz to 26.5GHz)	HAP18-26N	Flann	2027-01-19	216251
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2027-01-19	216252
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2026-04-19	216253
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2026-07-23	216250
EMI Receiver	ESU40	R&S	2026-07-11	100370
EMI Receiver	ESU	R&S	2027-01-16	100521
EMI Receiver	ESCI	R&S	2026-08-21	101367
EMI Receiver	ESCI7	R&S	2026-10-31	100758
TWO L LINE-V-NETWORK	ENV216	R&S	2026-07-17	101053
TWO L LINE-V-NETWORK	ENV216	R&S	2026-07-17	101644
Communication Tester	CMW500	R&S	2026-07-24	163307
Vector Signal Generator	SMBV100A	R&S	2026-09-23	260252
Test software	ES10-RE	TOYO	-	V2022.07
Test software	ES10-CE	TOYO	-	V2022.07

Table 5-1. Annual Test Equipment Calibration Schedule

5.2 Test Support Equipment

Description	Model	Manufacturer	Serial Number	FCC ID.
Note Book PC	NP850XAG-PS1	Samsung	OVHJ91ZK300161P	Doc
Note Book Power Supply	PA-1181-96	Samsung	BA44-00352A	Doc
Note Book PC	NT520QFD-RS1	Samsung	64PJ9FGTC00262A	Doc
Note Book Power Supply	EP-T4511	SOLUM	R37X6EQ0DG1SEB	Doc
Mouse	AA-SM7PCP	Samsung	CNBA59003634ADV8J32S6837	Doc
Travel Adapter	EP-T1510	DONGYANG E&P	RF7YCJQ0LH2DKB	-
Travel Adapter	EP-T1510	DONGYANG E&P	RF7YCJQ17E2DKB	-
Router	DIR-825	D-Link	F37T32D4000718	Doc
Router Power Supply	CG2412-B	D-Link	LF2R00113129007	Doc
TX PAD	EP-OL300	RFTECH	-	-
LAN to USB A converter	U1003	IPTIME	-	Doc

Table 5-2. Test Support Equipment Used

5.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus

Test Item		Measurement Uncertainty (C.L. 95%, k=2)
Conducted Disturbance	0.15MHz to 30MHz	2.74 dB
Radiated Disturbance	Below 1GHz (Horizontal)	4.70 dB
	Below 1GHz (Vertical)	4.90 dB
	Above 1GHz (Horizontal)	4.49 dB
	Above 1GHz (Vertical)	4.49 dB

Table 5-3. Measurement Uncertainty

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6. TEST RESULTS

6.1 Summary

FCC Part 15 Section	Description	Test Result
15.107	Conducted Emissions	Complied
15.109	Radiated Emissions	Complied

Table 6-1. Summary of Test Results

Note: See Appendix A. Test setup photographs for actual system test setup.

6.2 Radiated disturbance

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin.

Peak measurements were made over the changeable frequency range 30 MHz to 1 GHz at a measurement distance of 10 m for the following antenna and turntable arrangements:

Antenna Height [cm]	Antenna Polarization	Resolution Bandwidth [KHz]	Video Bandwidth [KHz]	Turntable position [degrees]
100 ~ 400	Horizontal, Vertical	120	300	Continuous

Measurements within 6 dB of the limit were then maximized by adjusting turntable position.
Final measurements were made using quasi-peak detector.

Peak/CISPR-Average measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th harmonics of the highest frequency generated or used in the device or on which the device operate or tunes at a measurement distance of 3 m for the following antenna and turntable arrangements. The measurements above 1 GHz were performed with the bore-sighting antenna aimed at the EUT.

Antenna Height [cm]	Antenna Polarization	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]	Turntable position
100 ~ 400	Horizontal, Vertical	1	3	Continuous

Measurements within 6 dB of the limit were then maximized by adjusting turntable position.
Final measurements were made using peak and CISPR-average detectors.

Limits for radiated disturbance of Class B ITE at a measuring distance of 3 m

Frequency range Limits [MHz]	Field Strength	
	3 m [μV/m]	3 m [dB(μV/m)]
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46
Above 960	500	54

Results checked manually; and points close to the limit line were re-measured.

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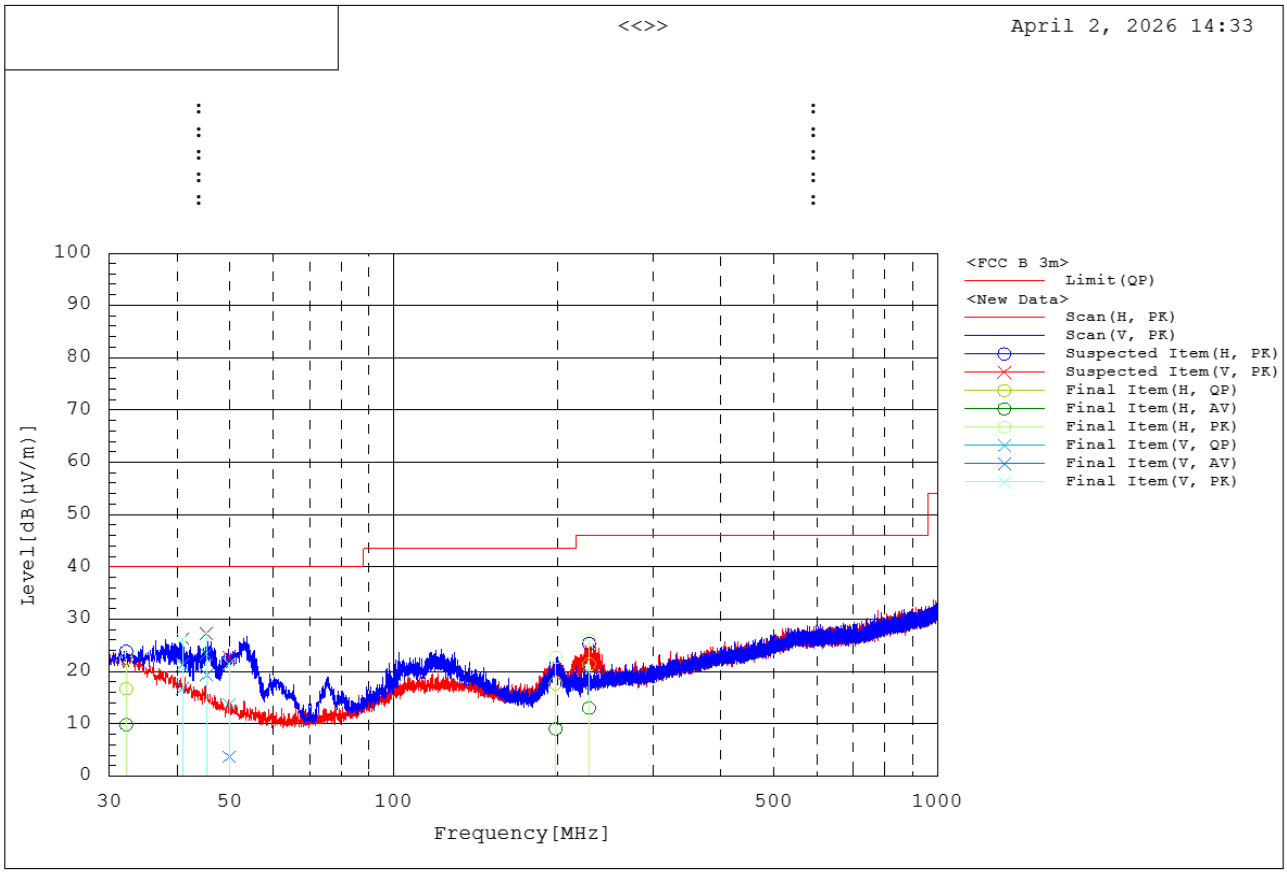
Operating Mode 1

Frequencies below 1 GHz



Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB(µV)]	Reading PK [dB(µV)]	c.f [dB(1/m)]	Result QP [dB(µV/m)]	Result PK [dB(µV/m)]	Limit QP [dB(µV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	32.231	H	23.7	29.4	-7.0	16.7	22.4	40.0	23.3	99.8	125.7	
2	40.864	V	33.0	37.9	-11.8	21.2	26.1	40.0	18.8	99.9	213.6	
3	45.278	V	37.3	41.4	-14.0	23.3	27.4	40.0	16.7	99.9	7.8	
4	49.788	V	29.7	37.7	-16.1	13.6	21.6	40.0	26.4	99.9	87.8	
5	198.538	H	31.6	36.5	-13.9	17.7	22.6	43.5	25.8	200.4	4.6	
6	228.802	H	33.2	37.8	-11.8	21.4	26.0	46.0	24.6	99.9	159.5	

Note1) Receiving antenna polarization : Horizontal, Vertical
Test Distance : 3 m, Antenna Height : 1 to 4 meters
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)
Margin (QP) = Limit – Level (QP)
QP = Quasi-Peak, c.f = Correction Factor

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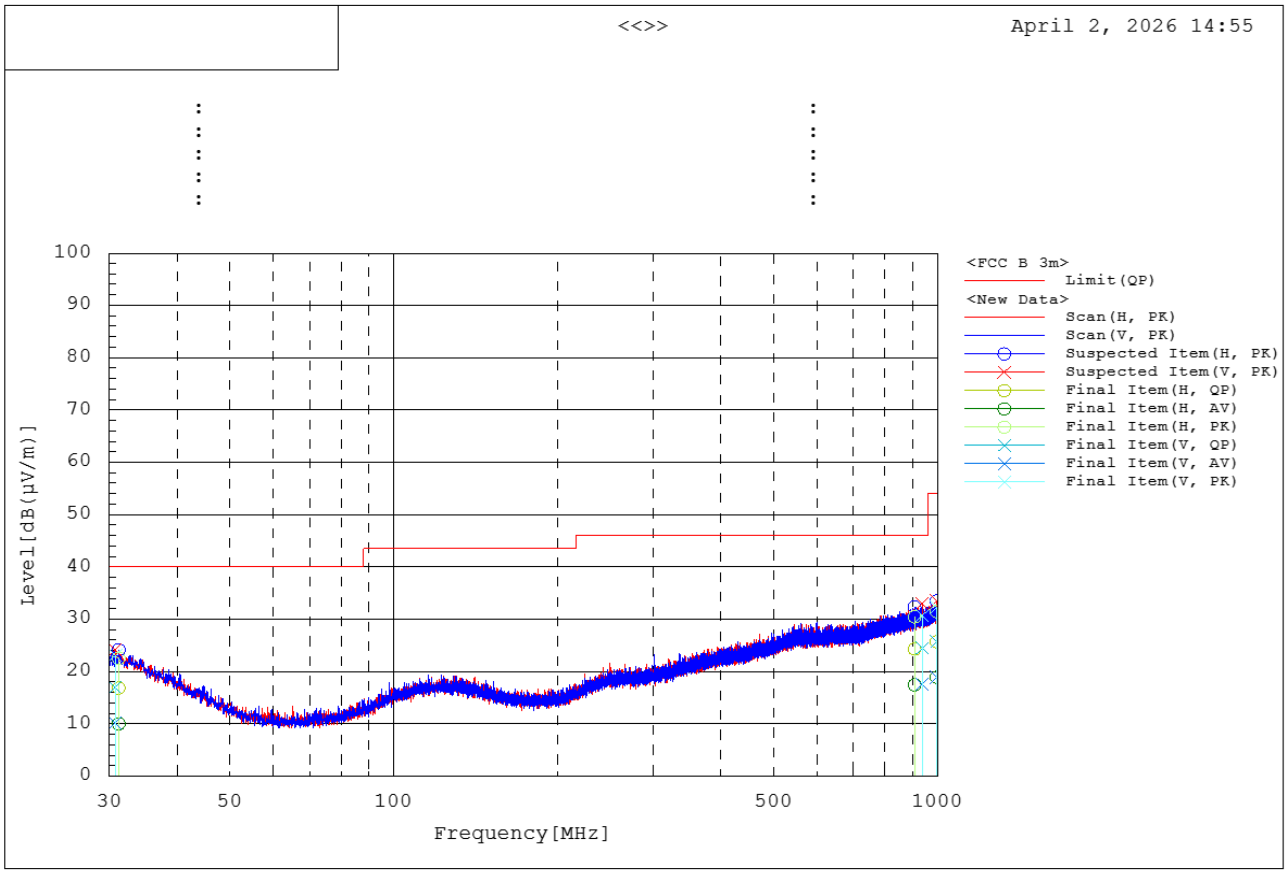
Operating Mode 2

Frequencies below 1 GHz



Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB(µV)]	Reading PK [dB(µV)]	c.f [dB(1/m)]	Result QP [dB(µV/m)]	Result PK [dB(µV/m)]	Limit QP [dB(µV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	30.728	V	23.2	29.2	-6.2	17.0	23.0	40.0	23.0	400.2	353.9	
2	31.213	H	23.2	28.9	-6.4	16.8	22.5	40.0	23.2	200.0	307.5	
3	907.705	H	24.1	30.3	0.2	24.3	30.5	46.0	21.7	200.0	119.5	
4	937.096	V	23.9	30.2	0.5	24.4	30.7	46.0	21.6	99.8	92.3	
5	996.993	H	23.9	29.6	1.8	25.7	31.4	54.0	28.3	200.0	32.8	
6	996.993	V	23.9	30.5	1.8	25.7	32.3	54.0	28.3	200.0	35.0	

Note1) Receiving antenna polarization : Horizontal, Vertical
Test Distance : 3 m, Antenna Height : 1 to 4 meters
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)
Margin (QP) = Limit – Level (QP)
QP = Quasi-Peak, c.f = Correction Factor

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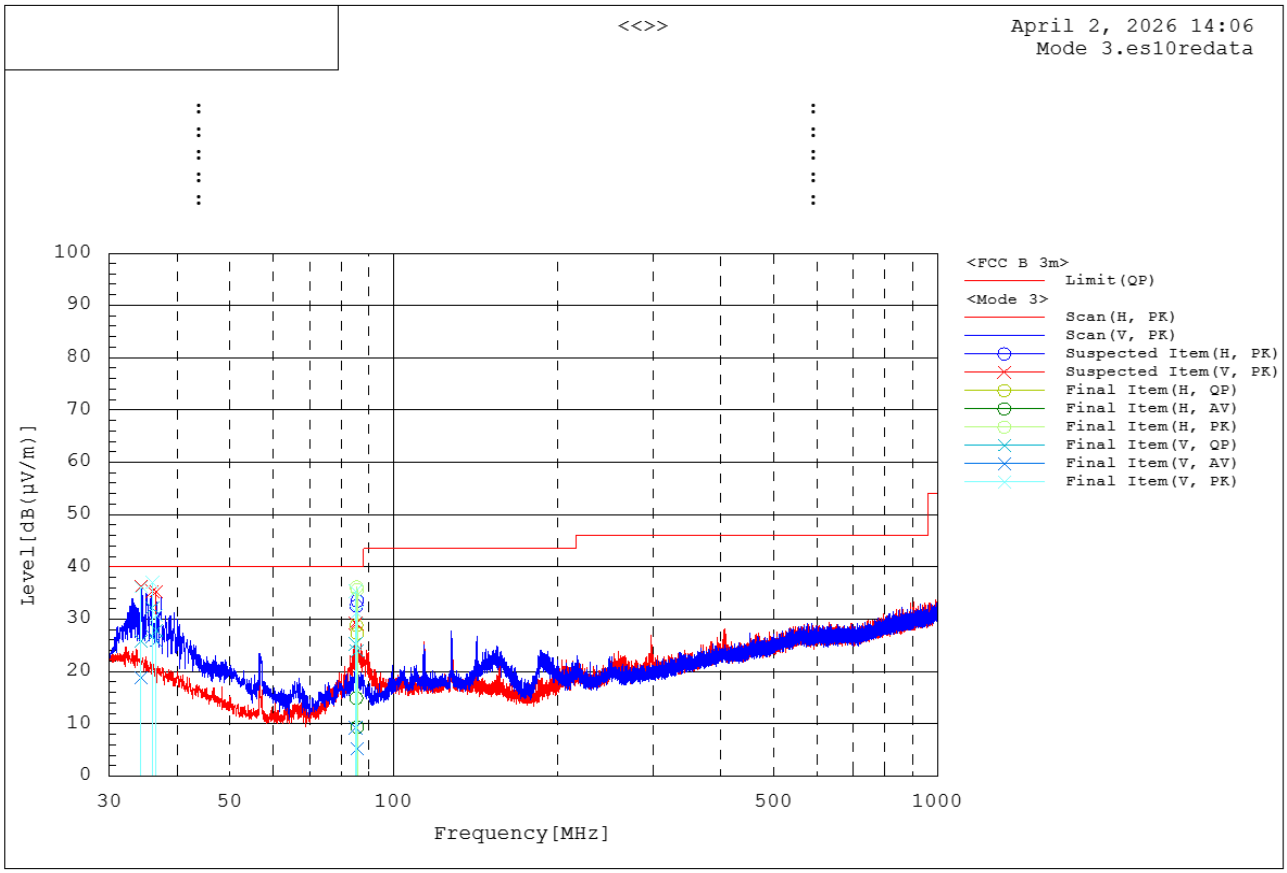
Operating Mode 3

Frequencies below 1 GHz



Final Result

No.	Frequency [MHz]	Pol	Reading QP [dB(µV)]	Reading PK [dB(µV)]	c.f [dB(1/m)]	Result QP [dB(µV/m)]	Result PK [dB(µV/m)]	Limit QP [dB(µV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	34.317	V	33.8	44.1	-8.0	25.8	36.1	40.0	14.2	99.8	316.4	
2	35.966	V	41.1	46.0	-9.0	32.1	37.0	40.0	7.9	99.8	335.3	
3	36.548	V	37.1	40.0	-9.3	27.8	30.7	40.0	12.2	99.8	335.3	
4	85.048	V	41.4	51.4	-16.1	25.3	35.3	40.0	14.7	199.9	97.5	
5	85.387	H	44.8	52.1	-16.0	28.8	36.1	40.0	11.2	300.1	354.4	
6	85.630	V	39.9	47.2	-16.0	23.9	31.2	40.0	16.1	300.1	134.6	
7	85.678	H	43.3	51.7	-16.0	27.3	35.7	40.0	12.7	400.2	165.4	

Note1) Receiving antenna polarization : Horizontal, Vertical
Test Distance : 3 m, Antenna Height : 1 to 4 meters
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)
Margin (QP) = Limit – Level (QP)
QP = Quasi-Peak, c.f = Correction Factor

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Notes:
1. All modes of operation were investigated and the worst-case emissions are reported.
2. Radiated emissions were measured from 30MHz –1GHz to ensure that the provisions of 15.33(b)(1) are satisfied with respect to the upper frequency scanning range.
3. The radiated limits for unintentional radiators at a distance of 3 meters are used in the table above, as specified in 15.109(a).
4. Measurements are made using a CISPR quasi-peak detector with a 100KHz resolution bandwidth. Above 1GHz, peak measurements are made using a peak detector with a resolution bandwidth of 1MHz and a video bandwidth of 3MHz and average measurements are made with a peak detector using a resolution bandwidth of 1MHz and a video bandwidth of 3MHz.
5. Calibrated linearly polarized broadband and horn antenna were used for measurements below and above 1GHz, respectively. For measurements made below 1GHz, the results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy.

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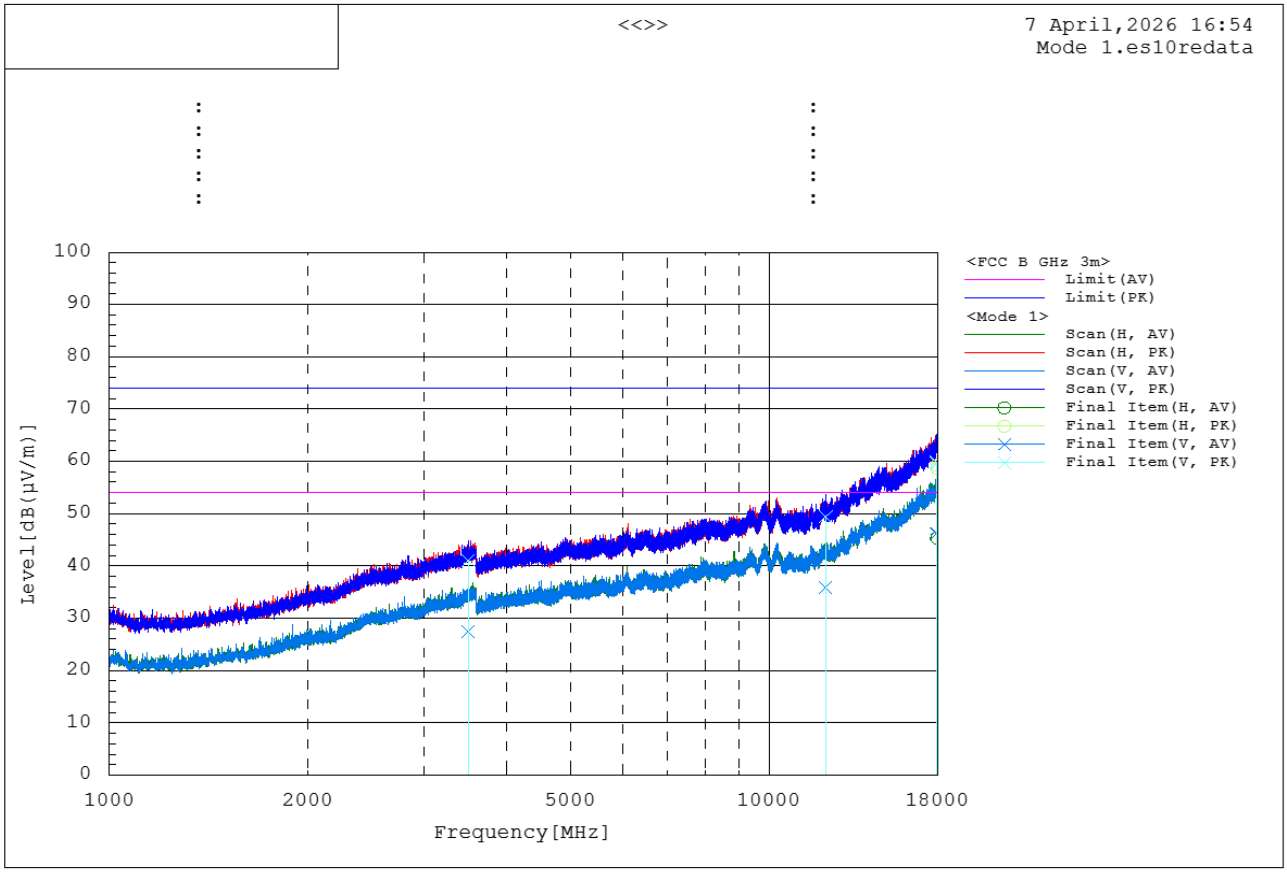
Operating Mode 1

Frequencies above 1 GHz



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(µV)]	c.f [dB(1/m)]	Result PK [dB(µV/m)]	Limit AV [dB(µV/m)]	Limit PK [dB(µV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	3497.600	V	39.9	1.2	41.1	54.0	74.0	26.6	32.9	200.3	5.4	
2	12184.200	V	35.0	14.3	49.3	54.0	74.0	18.2	24.7	99.8	150.4	
3	17935.650	V	33.1	26.6	59.7	54.0	74.0	7.9	14.3	200.2	87.1	
4	17975.700	V	32.9	26.7	59.6	54.0	74.0	7.8	14.4	200.2	358.6	
5	17980.200	H	32.0	26.7	58.7	54.0	74.0	8.6	15.3	99.8	358.6	
6	17990.550	H	32.5	26.7	59.2	54.0	74.0	8.7	14.8	99.8	201.1	

Note 1) We have also tested from 18GHz to 40GHz and found no emissions
Note 2) Receiving antenna polarization : Horizontal, Vertical
Test Distance : 3 m, Antenna Height : 1 to 4 meters
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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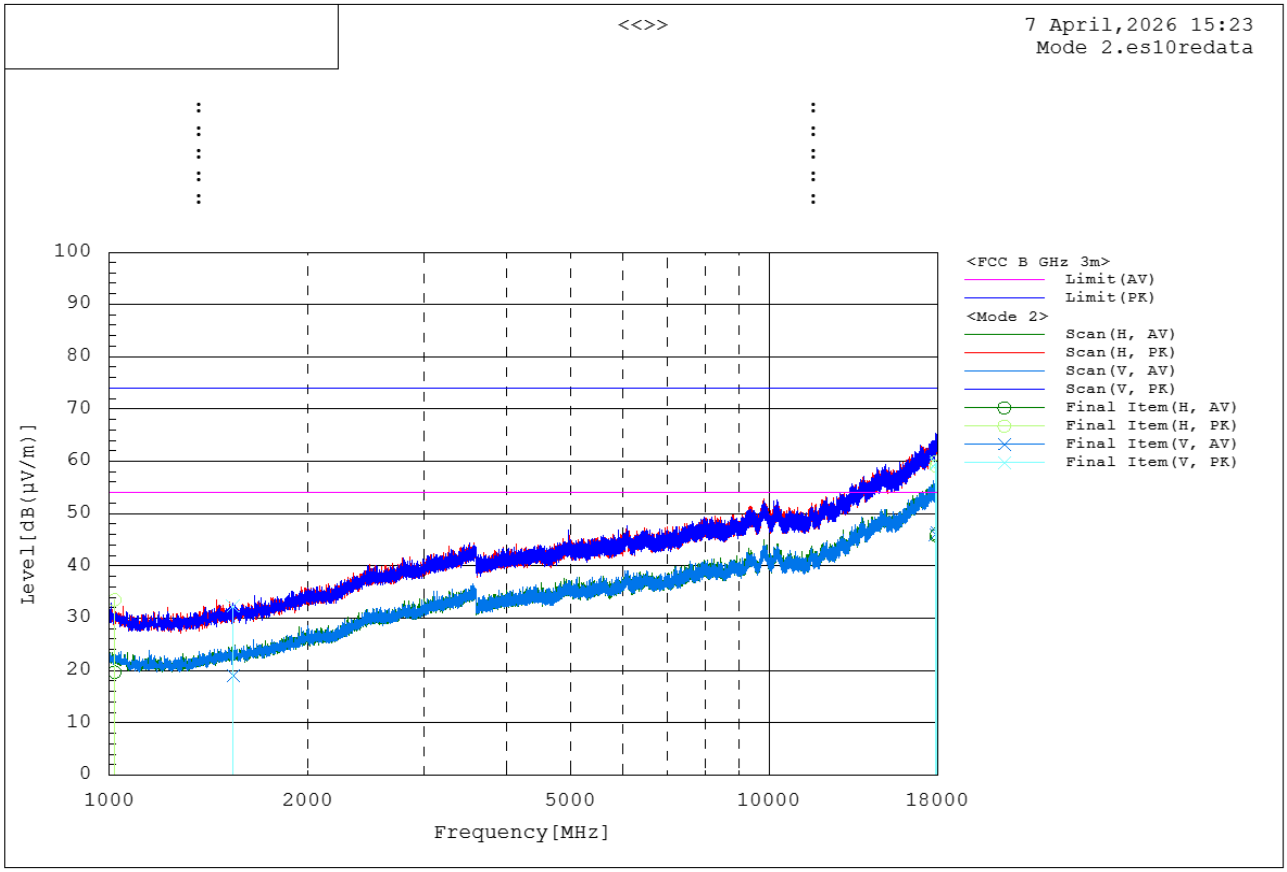
Operating Mode 2

Frequencies above 1 GHz



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(µV)]	c.f [dB(1/m)]	Result PK [dB(µV/m)]	Limit AV [dB(µV/m)]	Limit PK [dB(µV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	1018.400	H	45.6	-12.1	33.5	54.0	74.0	34.3	40.5	200.5	310.6	
2	1540.400	V	41.8	-9.5	32.3	54.0	74.0	35.0	41.7	99.8	240.5	
3	17911.800	V	32.9	26.5	59.4	54.0	74.0	8.0	14.6	200.3	359.6	
4	17923.500	H	32.5	26.6	59.1	54.0	74.0	8.2	14.9	99.8	0.7	
5	17973.000	H	33.3	26.7	60.0	54.0	74.0	7.9	14.0	200.5	176.7	
6	17974.350	V	33.1	26.7	59.8	54.0	74.0	7.7	14.2	200.3	359.6	

Note 1) We have also tested from 18GHz to 40GHz and found no emissions
Note 2) Receiving antenna polarization : Horizontal, Vertical
Test Distance : 3 m, Antenna Height : 1 to 4 meters
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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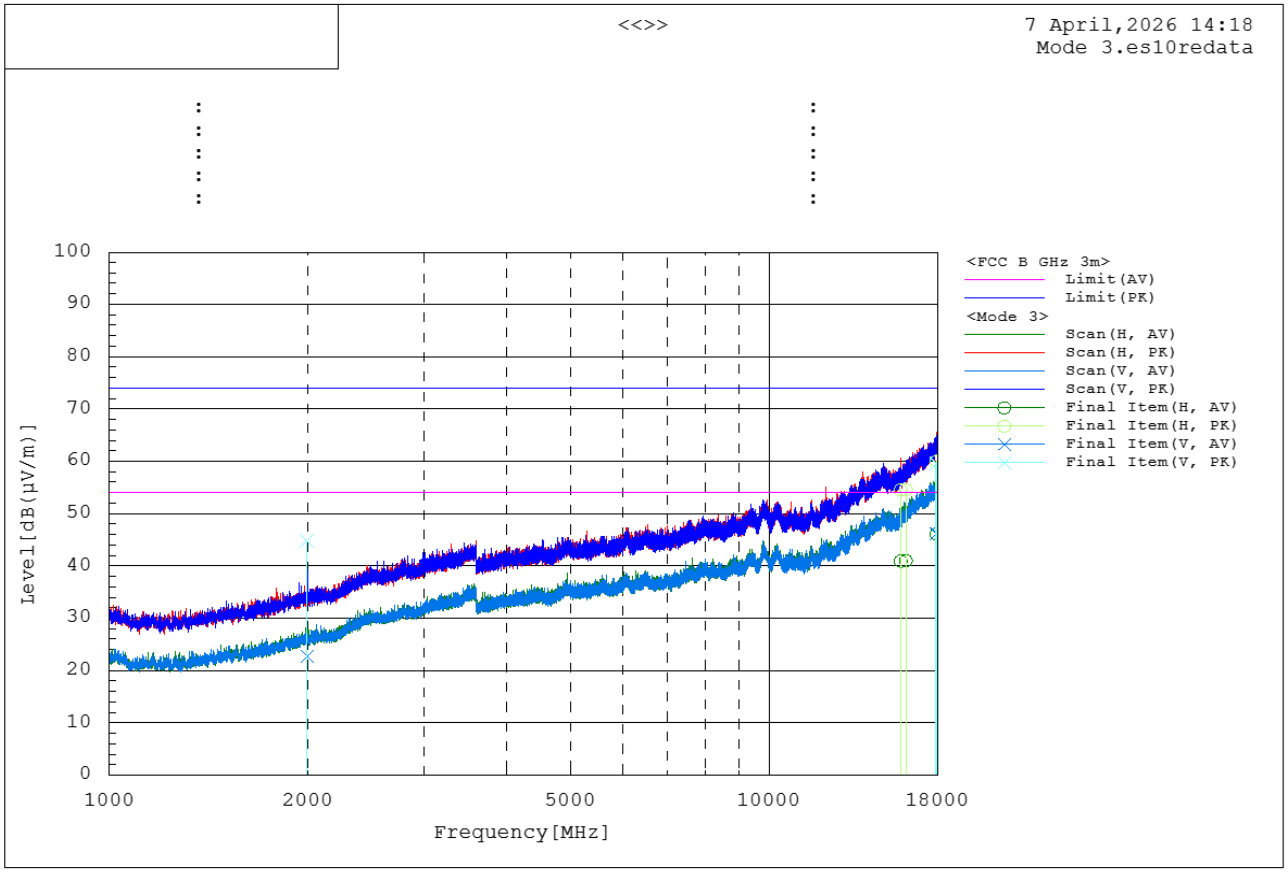
Operating Mode 3

Frequencies above 1 GHz



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(µV)]	c.f [dB(1/m)]	Result PK [dB(µV/m)]	Limit AV [dB(µV/m)]	Limit PK [dB(µV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	1993.200	V	50.5	-5.7	44.8	54.0	74.0	31.3	29.2	200.3	150.1	
2	15832.350	H	33.8	20.7	54.5	54.0	74.0	13.1	19.5	99.8	97.9	
3	16137.000	H	33.6	21.0	54.6	54.0	74.0	13.0	19.4	200.2	321.3	
4	17919.900	V	32.9	26.6	59.5	54.0	74.0	7.9	14.5	99.8	358.9	
5	17945.100	H	33.4	26.6	60.0	54.0	74.0	8.0	14.0	99.8	358.9	
6	17958.600	V	33.0	26.6	59.6	54.0	74.0	7.9	14.4	99.8	243.6	

Note 1) We have also tested from 18GHz to 40GHz and found no emissions
Note 2) Receiving antenna polarization : Horizontal, Vertical
Test Distance : 3 m, Antenna Height : 1 to 4 meters
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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Notes:
1. All modes of operation were investigated and the worst-case emissions are reported.
2. Radiated emissions were measured from above 1GHz to ensure that the provisions of 15.33(b)(1) are satisfied with respect to the upper frequency scanning range.
3. The radiated limits for unintentional radiators at a distance of 3 meters are used in the table above, as specified in 15.109(a).
4. Measurements are made using a CISPR quasi-peak detector with a 100kHz resolution bandwidth. Above 1GHz, peak measurements are made using a peak detector with a resolution bandwidth of 1MHz and a video bandwidth of 3MHz and average measurements are made with a peak detector using a resolution bandwidth of 1MHz and a video bandwidth of 3MHz.
5. Calibrated linearly polarized broadband and horn antenna were used for measurements below and above 1GHz, respectively. For measurements made below 1GHz, the results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy.

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6.3 Conducted disturbance

The EUT was connected to the Desk-Top Computer which was powered from one LISN for the measurements. The support equipment power cables were connected to a second LISN.

Both conducted lines are measured in Quasi-Peak and CISPR-Average mode, including the worst-case data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

Limits for conducted disturbance at the mains ports of Class B ITE

Frequency range Limits [MHz]	Resolution Bandwidth [kHz]	Limits [dB(μV)]	
		Quasi-peak	Average
0,15 to 0,50	9	66 to 56	56 to 46
0,50 to 5	9	56	46
5 to 30	9	60	50

NOTE 1 The lower limit shall apply at the transition frequency.
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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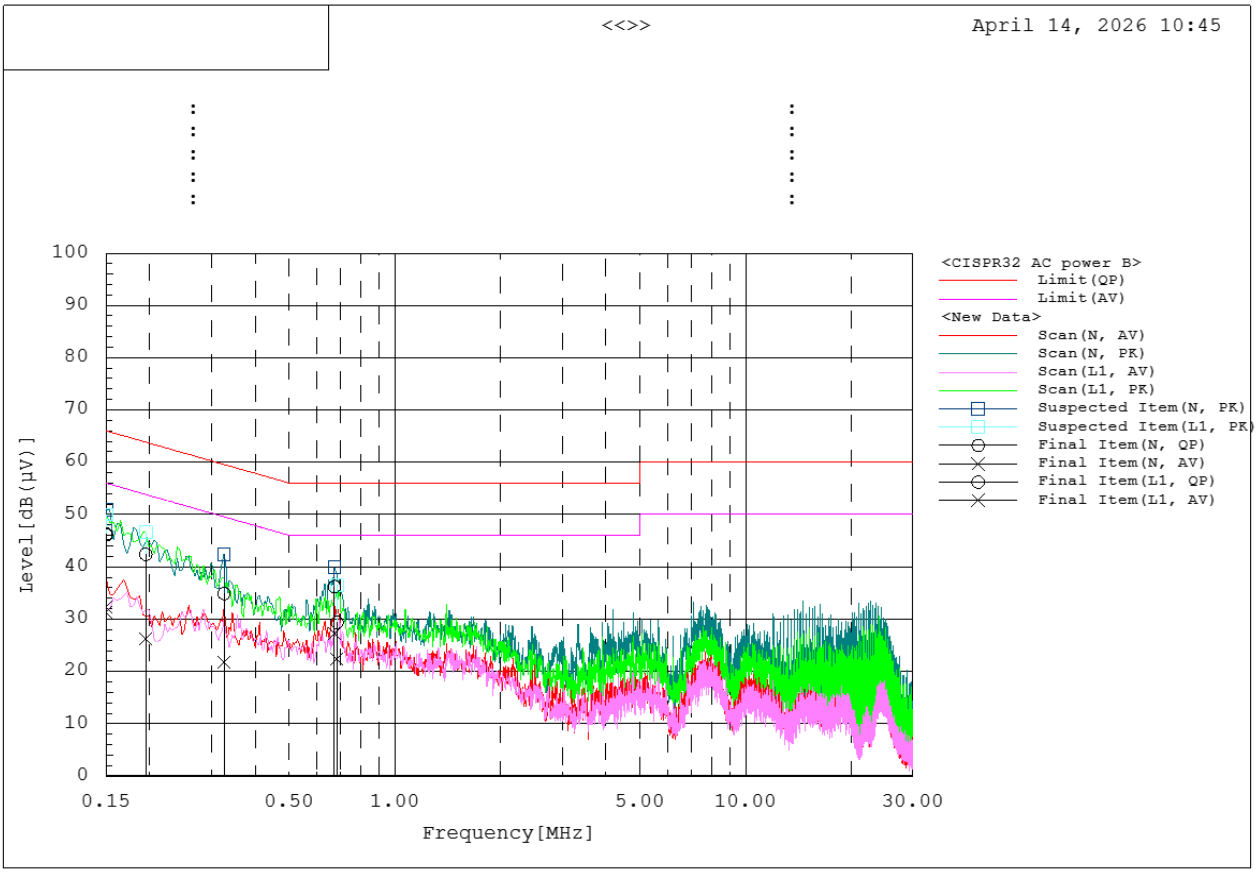
Operating Mode 1



Final Result

No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit QP [dB(µV)]	Limit AV [dB(µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	N	36.4	22.4	9.9	46.3	32.3	66.0	56.0	19.7	23.7	
2	0.150	L1	36.2	21.5	9.9	46.1	31.4	66.0	56.0	19.9	24.6	
3	0.195	L1	32.4	16.2	10.0	42.4	26.2	63.8	53.8	21.4	27.6	
4	0.325	N	24.9	11.7	10.0	34.9	21.7	59.6	49.6	24.7	27.9	
5	0.672	N	26.3	17.3	10.0	36.3	27.3	56.0	46.0	19.7	18.7	
6	0.684	L1	19.4	12.4	10.0	29.4	22.4	56.0	46.0	26.6	23.6	

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)
QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.

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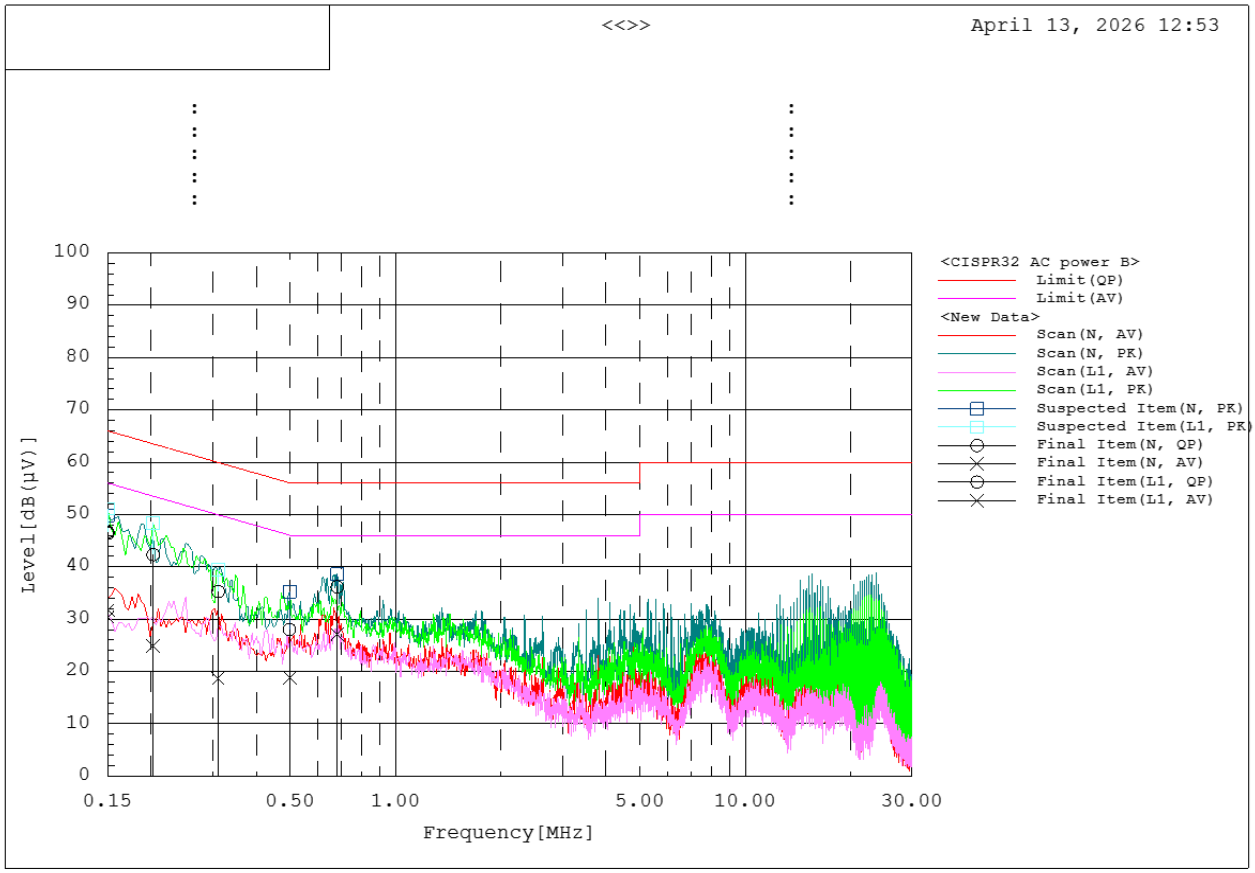
Operating Mode 2



Final Result

No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit QP [dB(µV)]	Limit AV [dB(µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	N	36.7	21.8	9.9	46.6	31.7	66.0	56.0	19.4	24.3	
2	0.150	L1	36.5	20.5	9.9	46.4	30.4	66.0	56.0	19.6	25.6	
3	0.202	L1	32.4	14.9	10.0	42.4	24.9	63.5	53.5	21.1	28.6	
4	0.310	L1	25.4	8.8	9.9	35.3	18.7	60.0	50.0	24.7	31.3	
5	0.497	N	18.0	8.8	10.0	28.0	18.8	56.0	46.0	28.0	27.2	
6	0.680	N	26.2	17.0	10.0	36.2	27.0	56.0	46.0	19.8	19.0	

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)
QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.

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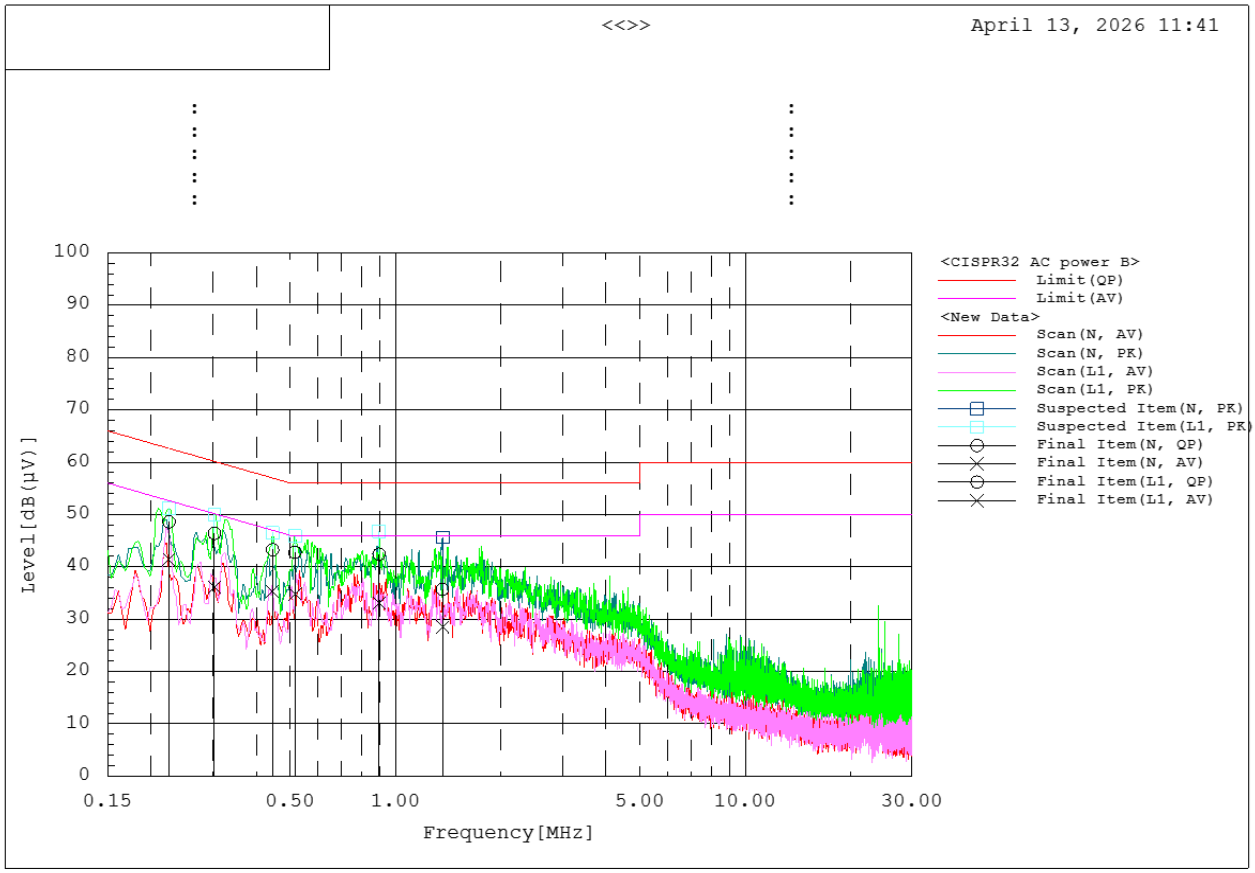
Operating Mode 3



Final Result

No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit QP [dB(µV)]	Limit AV [dB(µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.225	L1	38.7	31.5	9.9	48.6	41.4	62.6	52.6	14.0	11.2	
2	0.303	L1	36.5	26.2	9.9	46.4	36.1	60.2	50.2	13.8	14.1	
3	0.445	L1	33.3	25.3	10.0	43.3	35.3	57.0	47.0	13.7	11.7	
4	0.516	L1	32.8	24.9	10.0	42.8	34.9	56.0	46.0	13.2	11.1	
5	0.896	L1	32.5	23.2	9.9	42.4	33.1	56.0	46.0	13.6	12.9	
6	1.363	N	25.8	18.6	9.9	35.7	28.5	56.0	46.0	20.3	17.5	

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)
Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)
QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.

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Notes:
1. All modes of operation, were investigated and the worst-case emissions are reported.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Traces shown in plot are made using a peak detector.
4. Deviations to the Specifications: None.

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7. CONCLUSION

The data collected relate only the item(s) tested and show that the SM-L355U has been tested to comply with the requirements specified §15.107 and §15.109 of the FCC Rules.

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