

# SEQAL

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## FCC TEST REPORT

**Model : SM-T730**

**Variant Model : N/A**

**FCC ID : A3LSMT730**

**Application Type : Certification**

**EUT Type : Tablet Device**

Prepared By ..... Date .....  
SC Ha – Test Engineer

Checked By ..... Date .....  
JO Lee – Quality Manager

Authorized By ..... Date .....  
CM Lee- Technical Manager

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**1. Report Information**

## 1.1 Revision History

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

**2. General Information**

<b>APPLICANT:</b>	SAMSUNG Electronics Co., Ltd
<b>APPLICANT ADDRESS:</b>	129, Samsung-ro, Yeongtong-gu, Suwon-city, Gyeonggi-do, 16677, Korea
<b>TEST SITE:</b>	SEQAL Korea
<b>TEST SITE ADDRESS:</b>	129, Samsung-ro, Yeongtong-gu, Suwon-city, Gyeonggi-do, 16677, Korea
<b>FCC RULE PART(S):</b>	47 CFR Part 15.B
<b>TEST PROCEDURE(S):</b>	ANSI C63.4-2014
<b>MODEL NAME:</b>	SM-T730
<b>FCC ID:</b>	A3LSMT730
<b>DATE(S) OF RECEIPT:</b>	2021.03.25
<b>DATE(S) OF TEST:</b>	2021.03.29 ~2021.04.12
<b>TEST DEVICE JOB NO.:</b>	FCS-004
<b>TEST DEVICE SERIAL NO.:</b>	NONE

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### 3. PRODUCT INFORMATION

#### 3.1 Equipment Description

The Equipment Under Test (EUT) is the SM-T730. 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):

- BT and WiFi

#### 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 1-1. 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. All the external I/O ports are exercised, as well as internal and the external SD card, by writing and reading arbitrary data or charging with TA.

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

The video and music were repetitively played connected to the earphone.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF made by the Pacific Corp.

Test Voltage : AC 120 V, 60 Hz

### 3.5 EUT operating mode

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

#### 3.5.1 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (W/TA) + Keyboard
2	Camera (front)
3	Video + Audio playback from internal memory data
4	USB Data Communication with PC (from external memory data)

#### 3.5.2 Conducted Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA)
2	Camera (front) + Charging (w/ TA) + Keyboard
3	Charging (w/ TA)
4	Video + Audio playback from internal memory data + Charging (w/ TA)
5	USB Data Communication with PC (from external memory data)

#### 3.5.3 EUT Frequency

The highest Frequency	Frequency[MHz]
Wi-Fi	5 825

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

### 3.6 Test Condition

Max Temperature	24.4°C
Max Humidity	52.1%

**3.7 Identification of Samples Tested**

<b>Date of Receipt</b>	<b>Identification Number:</b>	<b>Information of samples:</b>
2021.03.25	FCS-004-1	#1
2021.03.25	FCS-004-2	#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-T730.

### 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 4.4. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is TOYO EP5-CE, Version 5.4.40.

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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 EP5-RE, Version 5.5.2, 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	2022-04-01	36010
BILOG Antenna	CBL 6112D	TESEQ	2021-10-29	36011
BILOG Antenna	CBL 6112D	TESEQ	2021-09-18	36012
HORN Antenna (1GHz to 18GHz)	3115	ETS LINDGREN	2021-09-18	00156306
HORN Antenna (1GHz to 18GHz)	3115	ETS LINDGREN	2021-07-10	00156307
HORN Antenna (1GHz to 18GHz)	3115	ETS LINDGREN	2021-07-10	00156245
HORN Antenna (1GHz to 18GHz)	3115	ETS LINDGREN	2021-09-18	00143185
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2022-04-20	216249
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2021-12-11	216251
HORN Antenna & Pre-amplifier assembly (18GHz to 26.5GHz)	HAP18-26N	Flann	2021-12-11	216252
HORN Antenna & Pre-amplifier assembly (18GHz to 26.5GHz)	HAP18-26N	Flann	2022-04-20	216253
EMI Receiver	ESU40	R&S	2021-06-23	100370
EMI Receiver	ESU	R&S	2022-01-11	100521
TWO L LINE-V-NETWORK	ENV216	R&S	2021-06-26	101053
TWO L LINE-V-NETWORK	ENV216	R&S	2021-06-17	101972
EMI Test Receiver	ESCI	R&S	2021-08-12	101367
EMI Receiver	ESCI7	R&S	2021-10-19	100758
EMI Receiver	ESU8	R&S	2021-04-22	100474
Vector Signal Generator	SMBV100A	R&S	2021-09-28	260252
Test software	EP5-RE	TOYO	-	V5.5.2
Test software	EP5-CE	TOYO	-	V5.4.40

Table 5-1 . Annual Test Equipment Calibration Schedule

**5.2 Test Support Equipment**

Description	Model	Manufacturer	Serial Number
Note Book PC	NT850XAC	Samsung	OVHJ91ZK300161P
Note Book Power Supply	PA-1181-96	Samsung	AD-18019B
Mouse	AA-SM7PCP	Samsung	CNBA59003634ADV8J32S6837
Mouse	AA-SM7PCP	Samsung	CN57BA590363BDV8J56H4145
Data Cable	EP-DN980	RFTECH	-
Travel Adapter	EP-TA800	RFTECH	R37R2N18KK4RT3
Micro SD card	128GB	Samsung	-
Router	DIR-825	D-Link	F3T32D4000718
Router Power Supply	CG2412-B	D-Link	LF2R00113129007
Monitor	27UD88	LG	705NTPC4H256
Earphone	AMD-20HS	ALMUS	-
Key Board	EF-DT730	Samsung	

**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	2.37 dB
Radiated Disturbance	Below 1GHz	4.81 dB
	Above 1GHz	5.03 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 Polarisation	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 Polarisation	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.

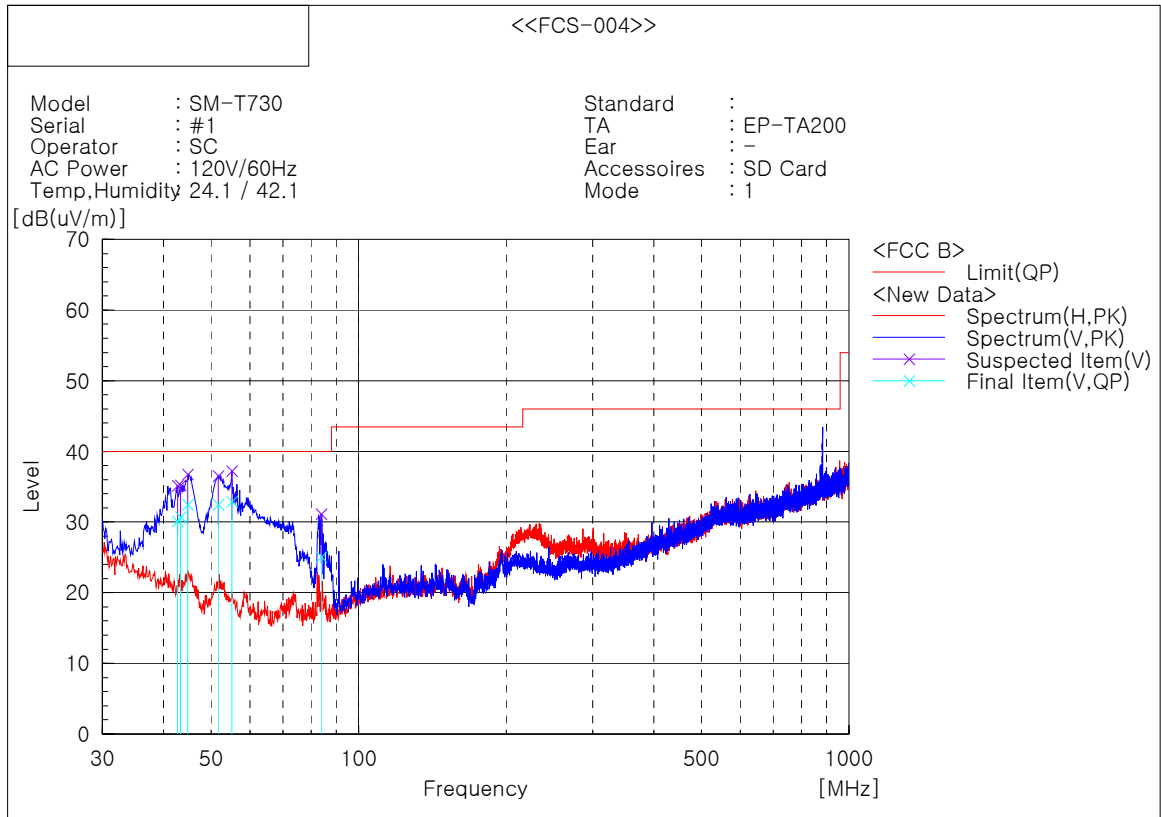
Final measurements were made using peak and CISPR-average detectors.

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

Frequency range Limits [ MHz ]	Field Strength	
	3 m [ $\mu\text{V/m}$ ]	3 m [ dB( $\mu\text{V/m}$ ) ]
30 to 88	100	40.0
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

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]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	44.793	V	40.3	-7.8	32.5	40.0	7.5	100.0	115.6	
2	43.338	V	37.8	-7.0	30.8	40.0	9.2	100.0	93.8	
3	42.731	V	36.7	-6.6	30.1	40.0	9.9	100.0	337.2	
4	51.704	V	43.0	-10.6	32.4	40.0	7.6	100.0	300.9	
5	55.099	V	44.2	-11.3	32.9	40.0	7.1	100.0	250.0	
6	83.835	V	34.9	-9.8	25.1	40.0	14.9	100.0	42.9	

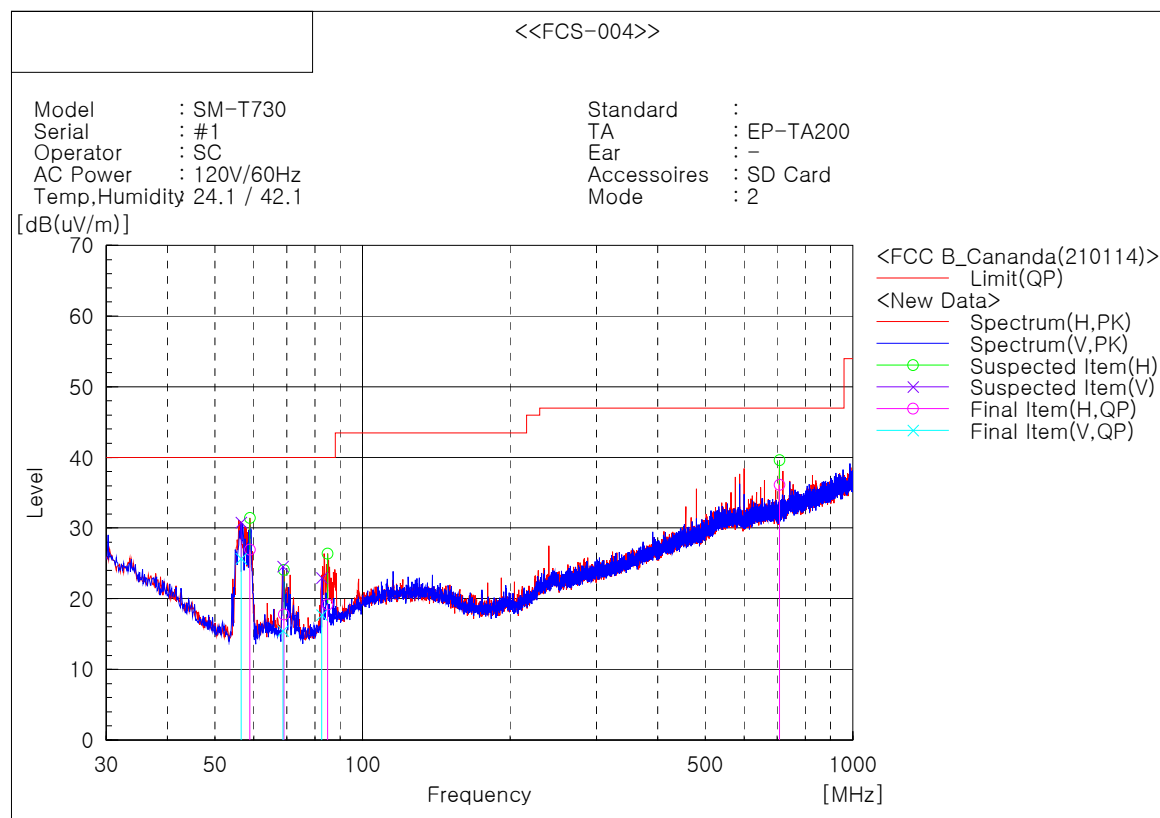
Note1) Receiving antenna polarization : Horizontal, Vertical

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

**Operating Mode 2**  
**Frequencies below 1 GHz**

## Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		QP		QP	QP	QP			
			[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	56.554	V	37.1	-11.4	25.7	40.0	14.3	200.0	28.8	
2	58.979	H	38.4	-11.5	26.9	40.0	13.1	400.0	115.9	
3	68.800	V	26.8	-11.4	15.4	40.0	24.6	200.0	25.1	
4	69.164	H	29.2	-11.4	17.8	40.0	22.2	200.0	111.6	
5	82.622	V	27.8	-10.1	17.7	40.0	22.3	200.0	48.7	
6	84.926	H	28.8	-9.6	19.2	40.0	20.8	200.0	115.2	
7	708.030	H	29.5	6.6	36.1	47.0	10.9	100.0	38.3	

Note1) Receiving antenna polarization : Horizontal, Vertical

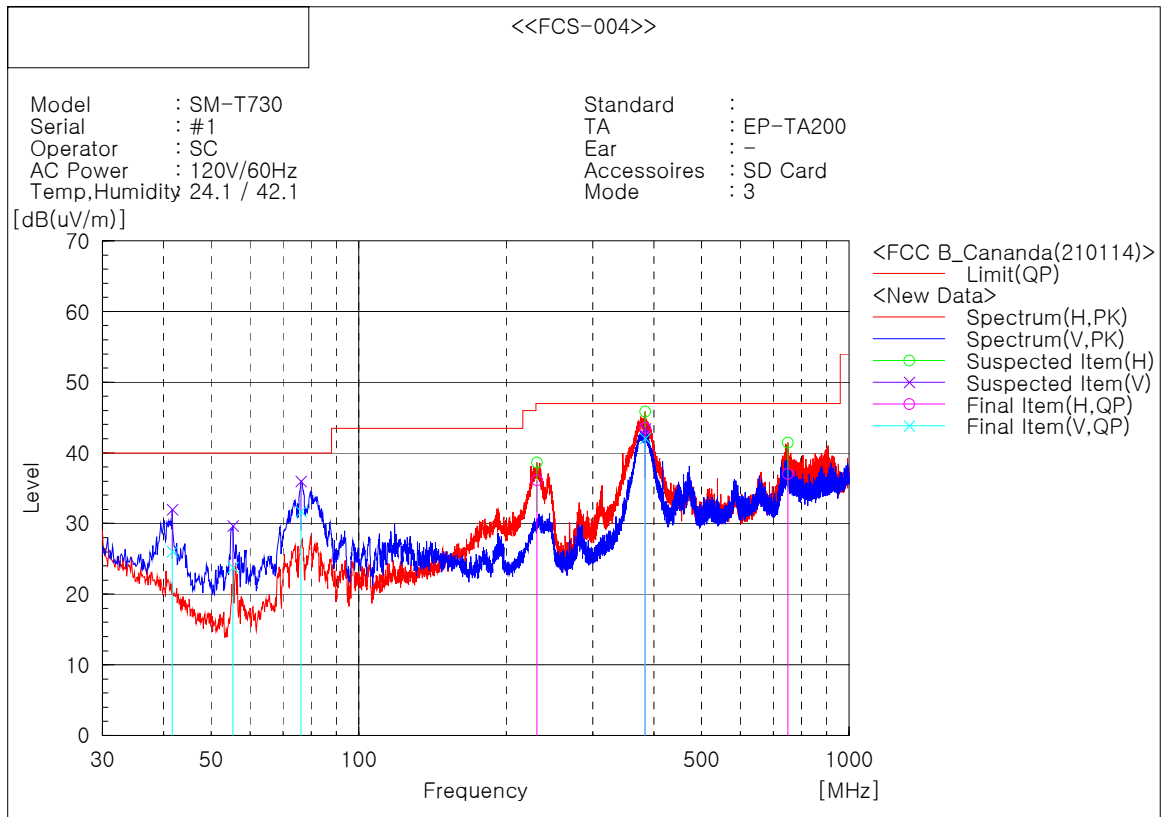
Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

### Operating Mode 3 Frequencies below 1 GHz



#### Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	41.640	V	32.0	-5.9	26.1	40.0	13.9	100.0	16.5	
2	55.341	V	35.1	-11.3	23.8	40.0	16.2	100.0	142.1	
3	76.196	V	42.7	-11.0	31.7	40.0	8.3	100.0	352.4	
4	230.911	H	40.2	-4.1	36.1	47.0	10.9	100.0	191.5	
5	383.808	H	42.5	1.0	43.5	47.0	3.5	200.0	255.6	
6	384.171	V	41.1	1.0	42.1	47.0	4.9	200.0	54.1	
7	749.740	H	29.2	7.9	37.1	47.0	9.9	200.0	248.3	

Note1) Receiving antenna polarization : Horizontal, Vertical

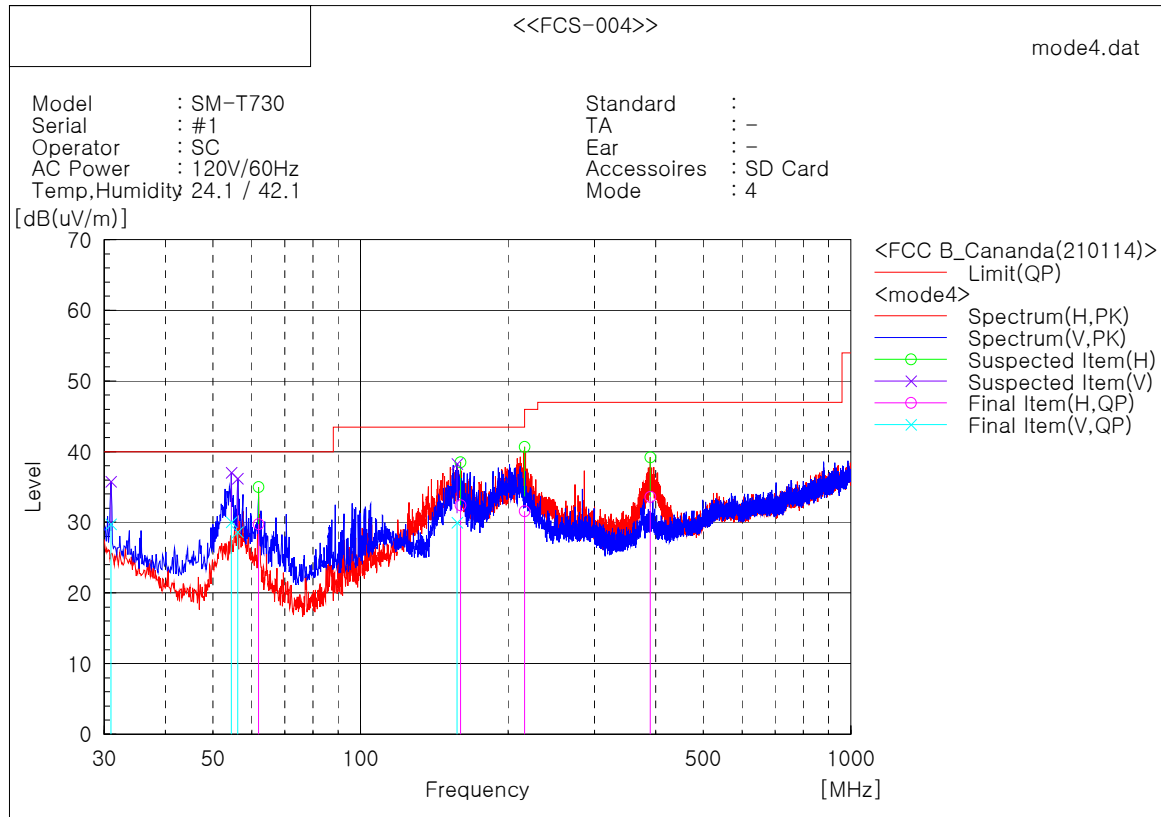
Test Distance : 3 m, Antenna Height : 1 to 4 meters

Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

# **Operating Mode 4** **Frequencies below 1 GHz**



## Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	30.970	V	30.2	-0.5	29.7	40.0	10.3	100.0	307.4	
2	54.493	V	41.2	-11.2	30.0	40.0	10.0	100.0	193.1	
3	56.190	V	40.0	-11.4	28.6	40.0	11.4	100.0	193.1	
4	62.010	H	41.3	-11.5	29.8	40.0	10.2	300.0	143.4	
5	157.313	V	36.4	-6.4	30.0	43.5	13.5	100.0	189.5	
6	159.859	H	38.9	-6.5	32.4	43.5	11.1	200.0	189.5	
7	215.876	H	37.2	-5.6	31.6	43.5	11.9	100.0	247.6	
8	389.749	H	32.3	1.3	33.6	47.0	13.4	100.0	107.5	

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

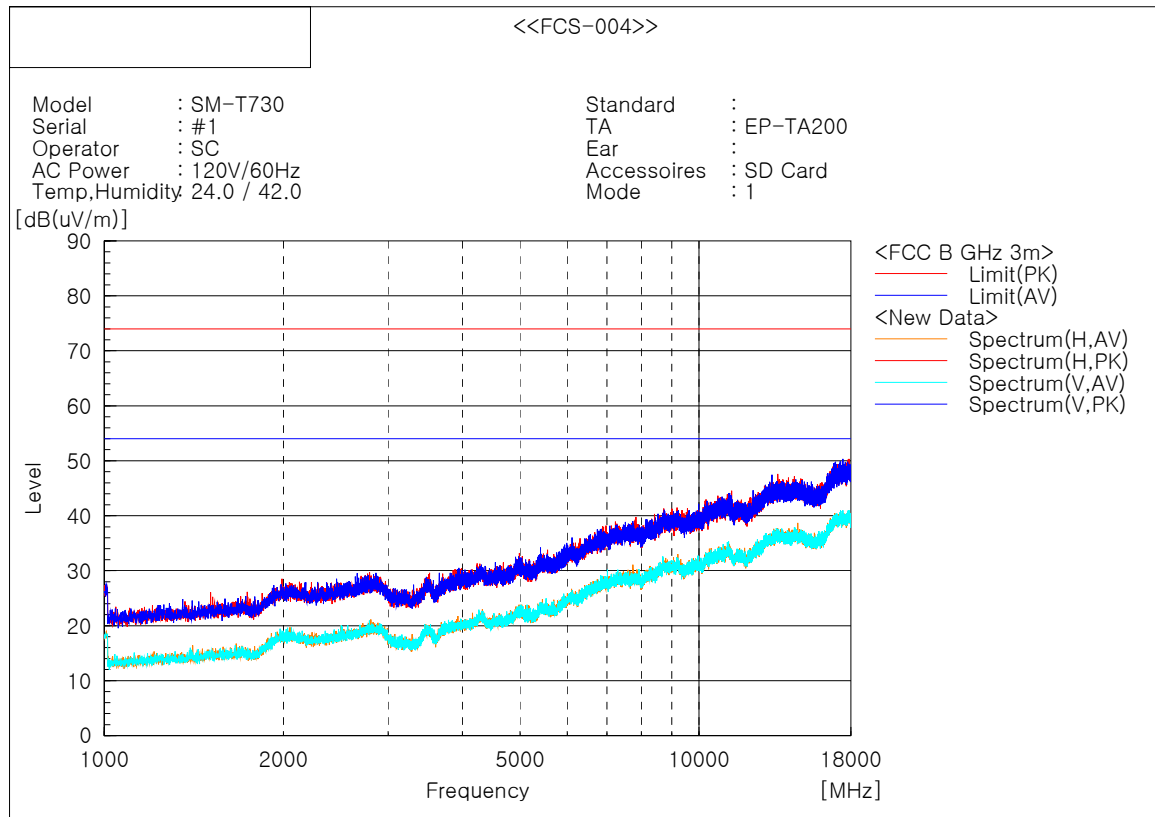


**Notes:**

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 10Hz.
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**



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions

Note 2) Receiving antenna polarization : Horizontal, Vertical

Test Distance : 3 m, Antenna Height : 1 to 4 meters

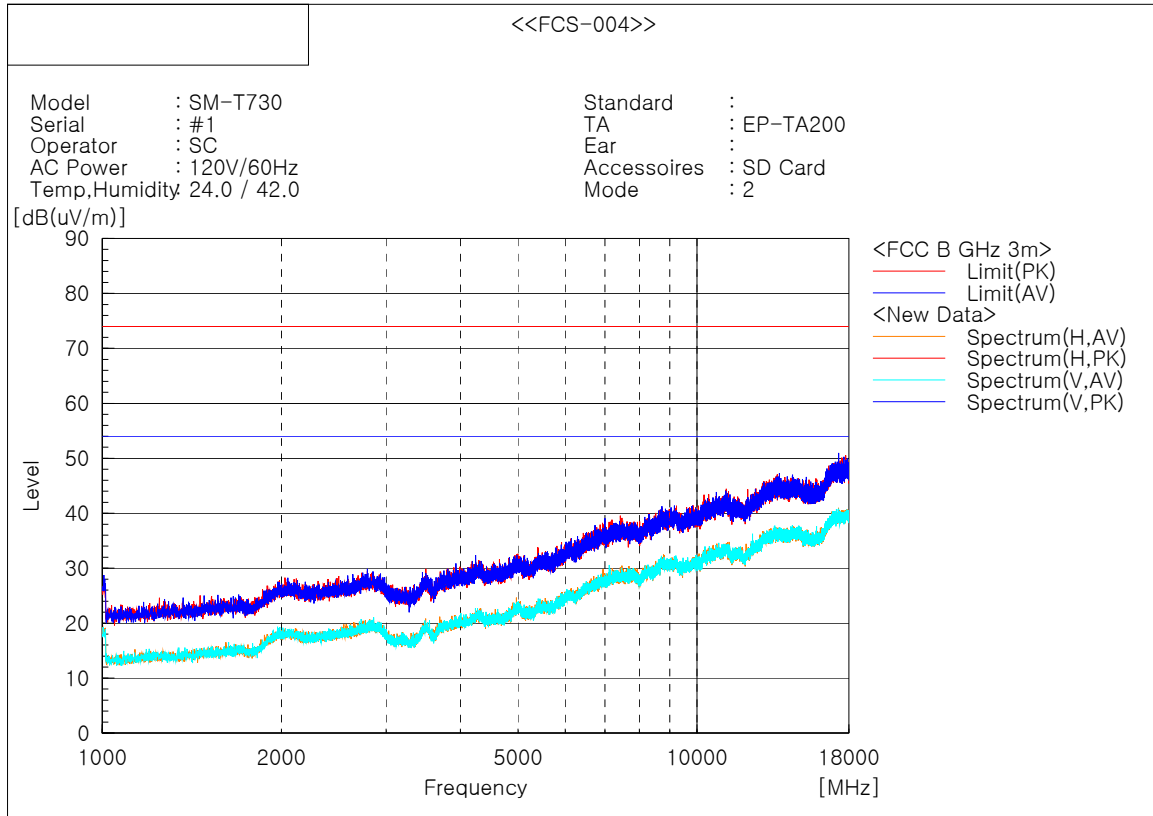
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

## Operating Mode 2

### Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions

Note 2) Receiving antenna polarization : Horizontal, Vertical

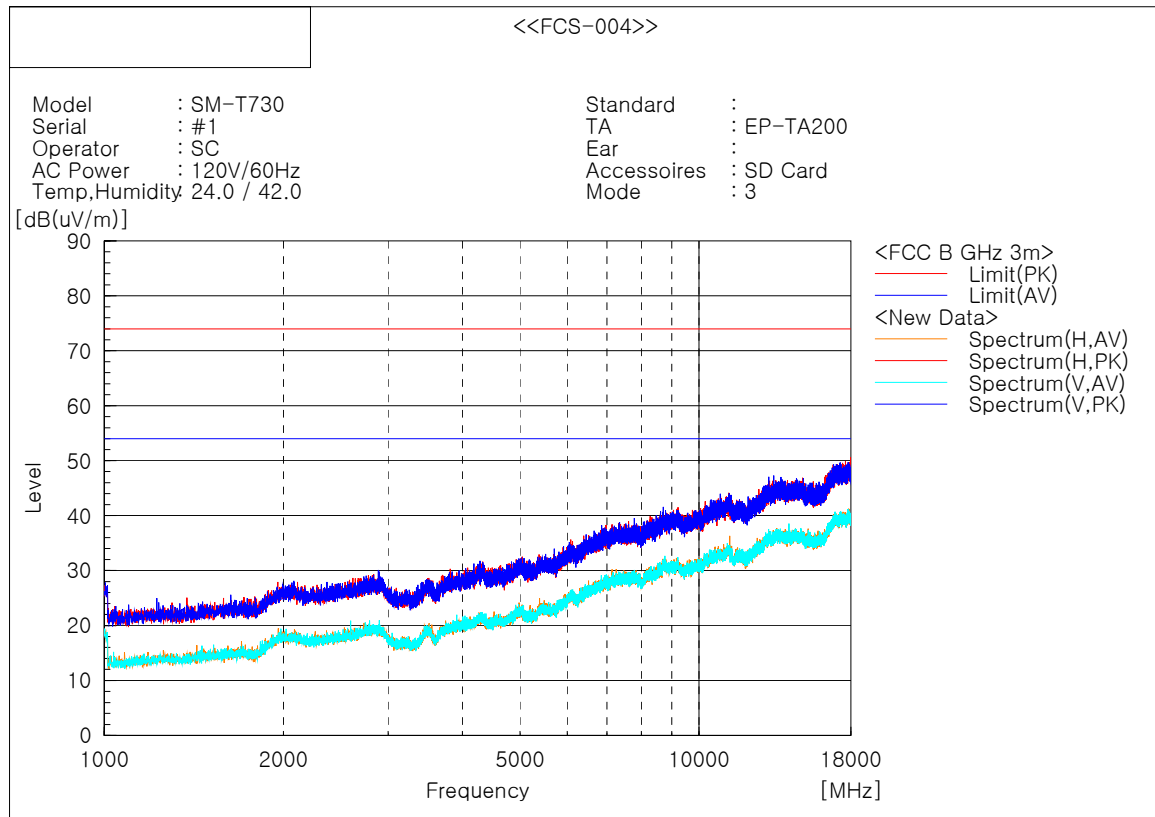
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

### Operating Mode 3 Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions

Note 2) Receiving antenna polarization : Horizontal, Vertical

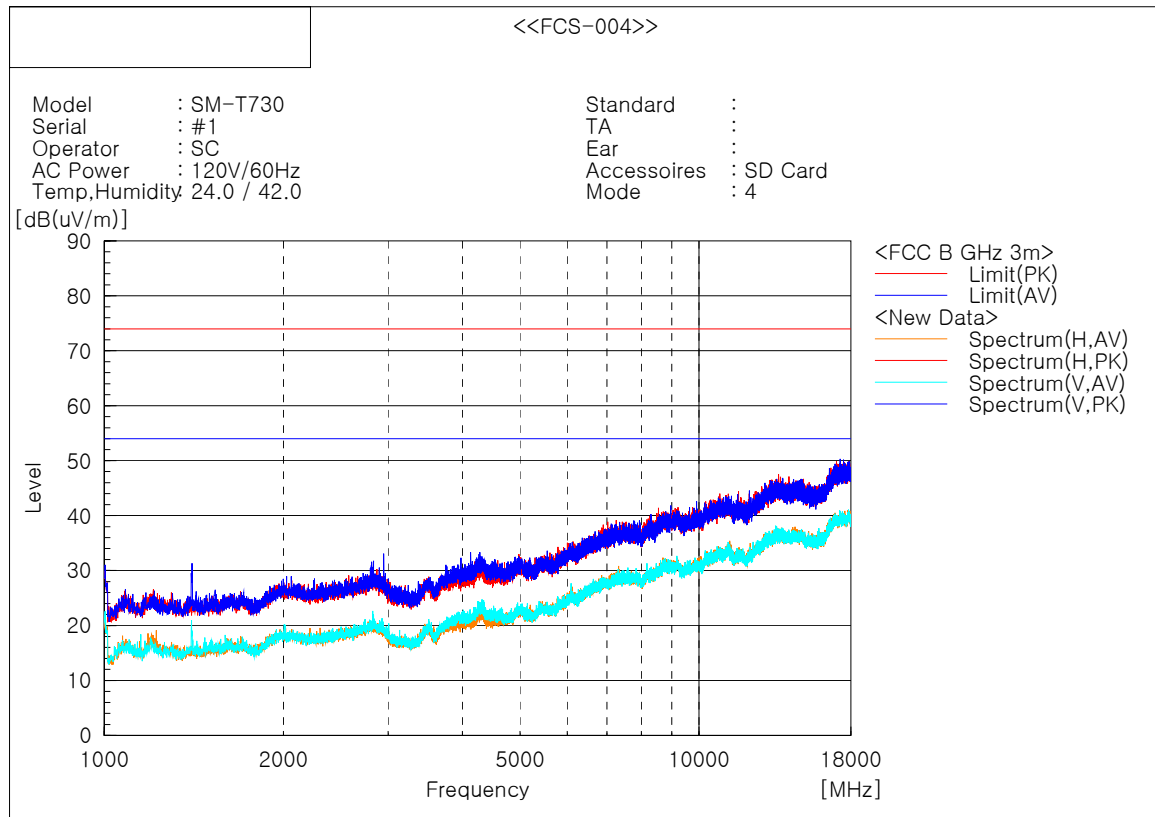
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

**Operating Mode 4**  
**Frequencies above 1 GHz**



Note 1) We have also tested from 18 GHz to 40 GHz 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

**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
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 10Hz.
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

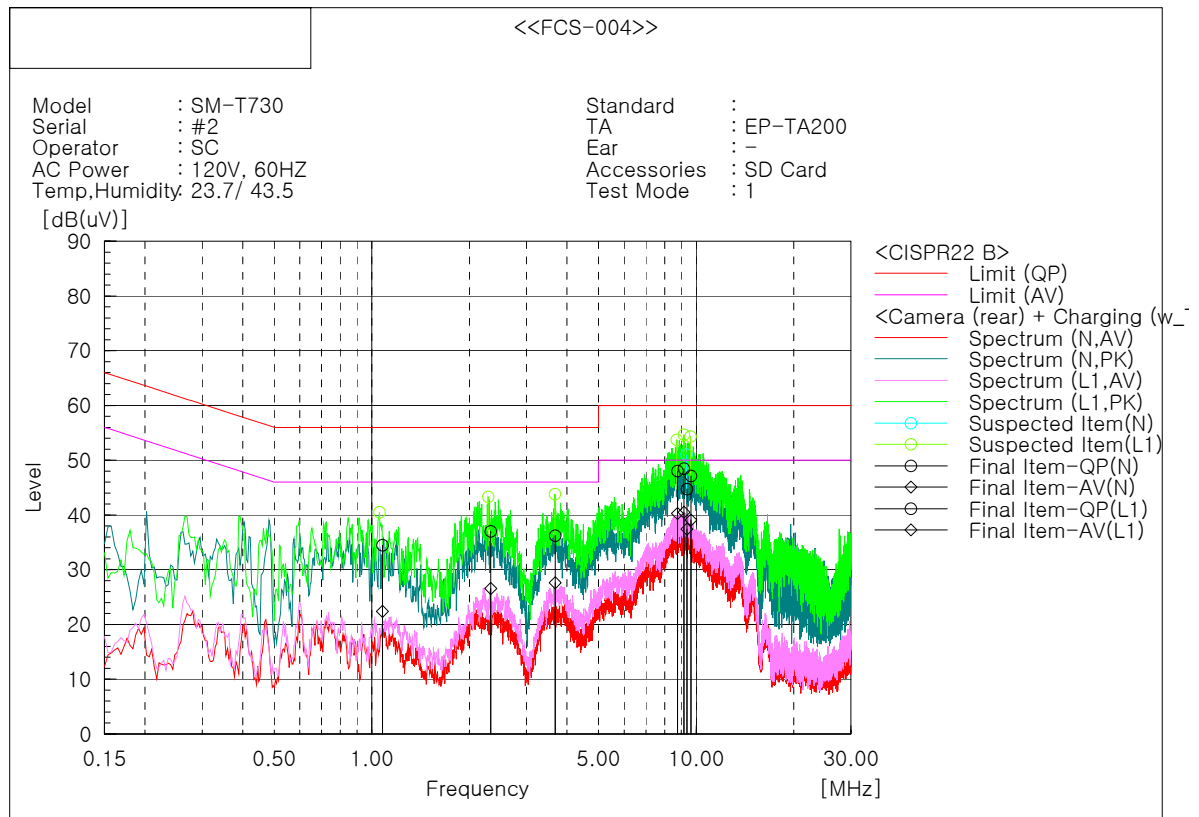
The EUT was connected to the Desk-Top Computer which was powered from one LISN for the measurements. The support equipment power cables were connected to a second LISN.

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.			

## Operating Mode 1



## Final Result

--- N Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	9.36762	34.5	27.2	10.2	44.7	37.4	60.0	50.0	15.3	12.6	

--- L1 Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	1.07917	24.6	12.5	9.9	34.5	22.4	56.0	46.0	21.5	23.6	
2	2.32716	27.1	16.7	9.9	37.0	26.6	56.0	46.0	19.0	19.4	
3	3.67543	26.2	17.6	10.0	36.2	27.6	56.0	46.0	19.8	18.4	
4	8.75384	37.9	30.2	10.1	48.0	40.3	60.0	50.0	12.0	9.7	
5	9.16193	38.4	30.4	10.1	48.5	40.5	60.0	50.0	11.5	9.5	
6	9.64086	37.0	29.0	10.1	47.1	39.1	60.0	50.0	12.9	10.9	

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph

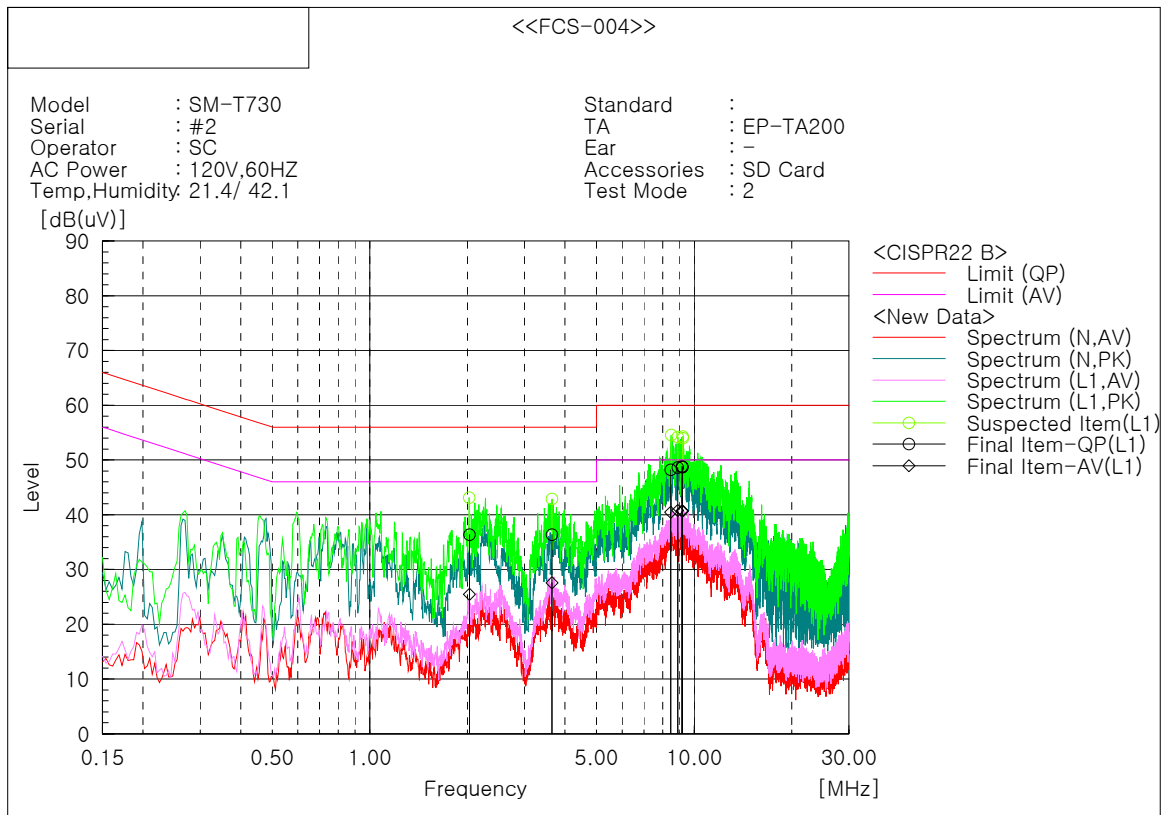
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit - Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.



## Operating Mode 2



## Final Result

--- L1 Phase ---		Reading		c.f	Result		Limit		Margin	Margin	Remark
No.	Frequency	QP	CAV		QP	CAV	QP	AV			
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	CAV	
1	2.02998	26.5	15.6	9.9	36.4	25.5	56.0	46.0	19.6	20.5	
2	3.64396	26.3	17.6	10.0	36.3	27.6	56.0	46.0	19.7	18.4	
3	8.46872	38.2	30.4	10.0	48.2	40.4	60.0	50.0	11.8	9.6	
4	8.89346	38.5	30.7	10.1	48.6	40.8	60.0	50.0	11.4	9.2	
5	9.16193	38.7	30.6	10.1	48.8	40.7	60.0	50.0	11.2	9.3	
6	9.19198	38.6	30.6	10.1	48.7	40.7	60.0	50.0	11.3	9.3	
7	9.20528	38.6	30.6	10.1	48.7	40.7	60.0	50.0	11.3	9.3	

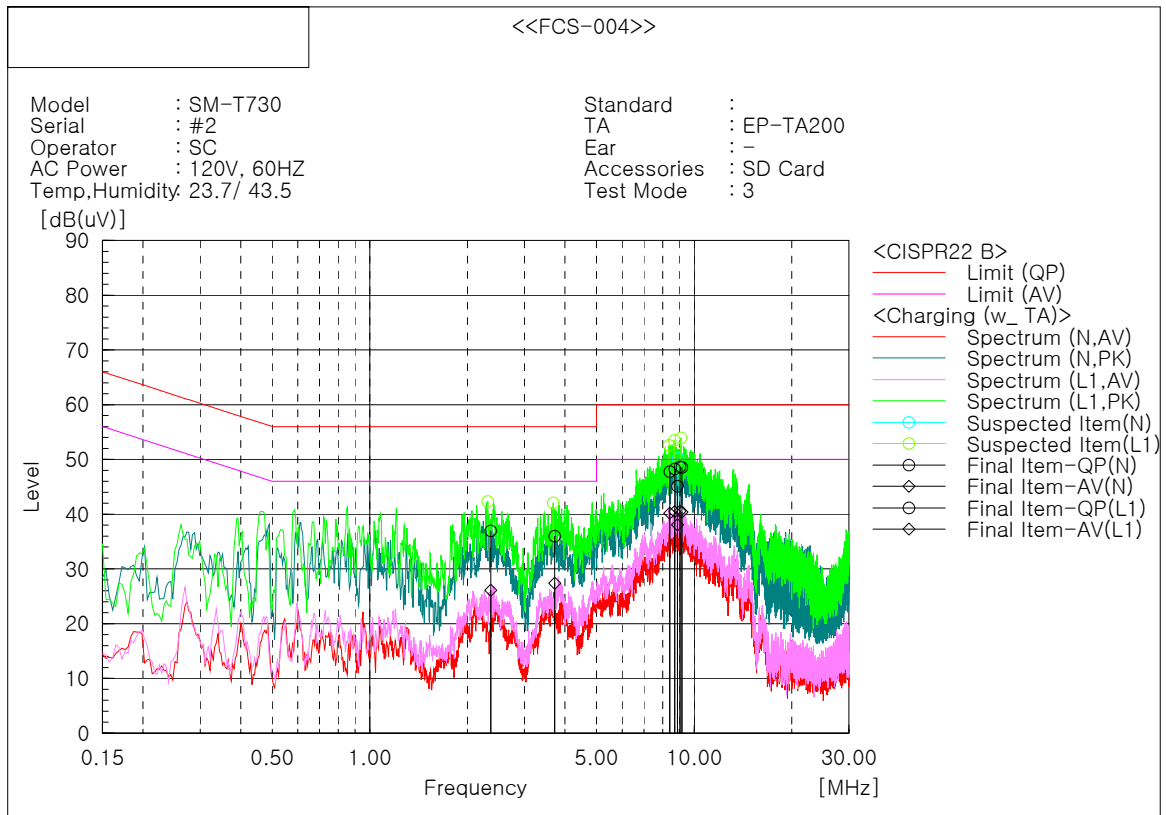
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph

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.

## Operating Mode 3



## Final Result

--- N Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	8.88528	34.9	27.8	10.2	45.1	38.0	60.0	50.0	14.9	12.0	

--- L1 Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	2.35842	27.1	16.2	9.9	37.0	26.1	56.0	46.0	19.0	19.9	
2	3.71614	26.0	17.4	10.0	36.0	27.4	56.0	46.0	20.0	18.6	
3	8.40266	37.7	30.2	10.0	47.7	40.2	60.0	50.0	12.3	9.8	
4	8.71704	38.2	30.4	10.1	48.3	40.5	60.0	50.0	11.7	9.5	
5	9.04772	38.5	30.5	10.1	48.6	40.6	60.0	50.0	11.4	9.4	
6	9.16193	38.5	30.3	10.1	48.6	40.4	60.0	50.0	11.4	9.6	

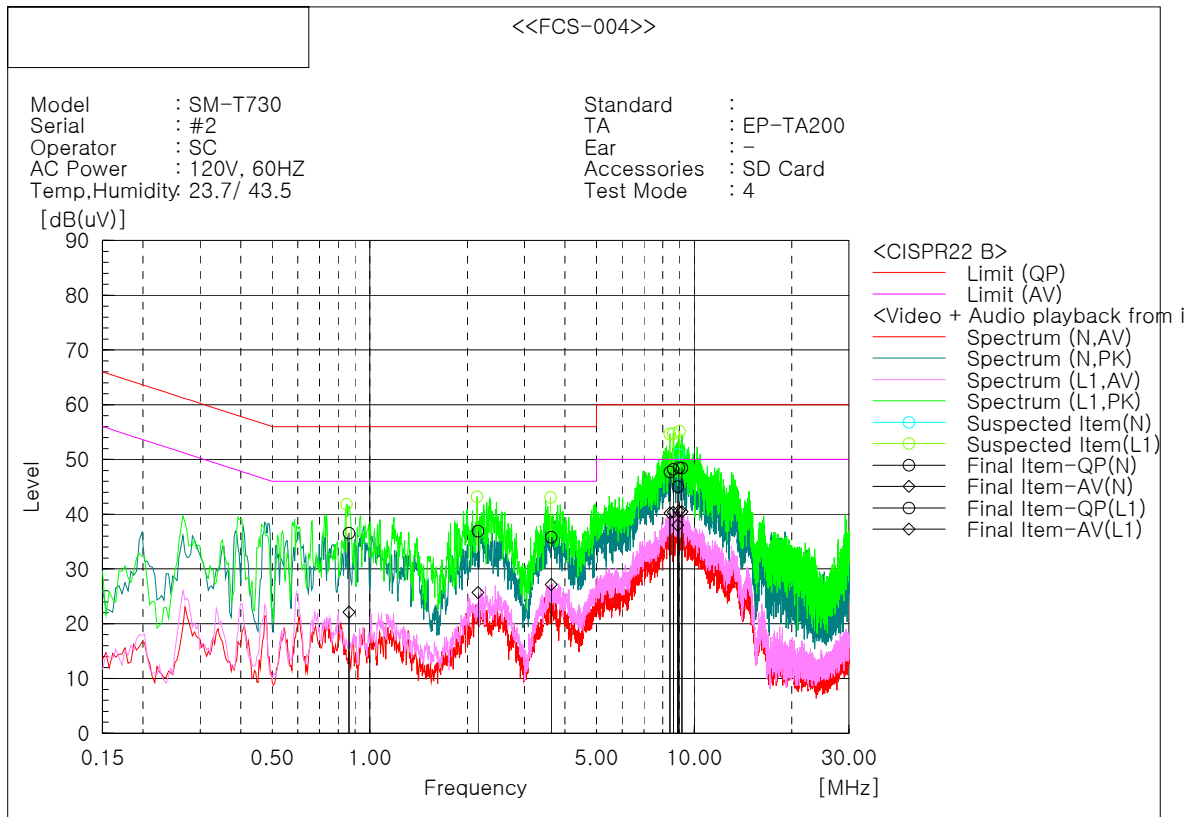
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph

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.

## Operating Mode 4



## Final Result

--- N Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	8.9011	34.9	27.8	10.2	45.1	38.0	60.0	50.0	14.9	12.0	

--- L1 Phase ---											
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	0.86276	26.6	12.2	9.9	36.5	22.1	56.0	46.0	19.5	23.9	
2	2.15652	27.0	15.8	9.9	36.9	25.7	56.0	46.0	19.1	20.3	
3	3.62354	25.8	17.2	10.0	35.8	27.2	56.0	46.0	20.2	18.8	
4	8.42151	37.7	30.2	10.0	47.7	40.2	60.0	50.0	12.3	9.8	
5	8.61232	38.1	30.2	10.1	48.2	40.3	60.0	50.0	11.8	9.7	
6	8.97683	38.4	30.5	10.1	48.5	40.6	60.0	50.0	11.5	9.4	
7	9.16193	38.3	30.4	10.1	48.4	40.5	60.0	50.0	11.6	9.5	

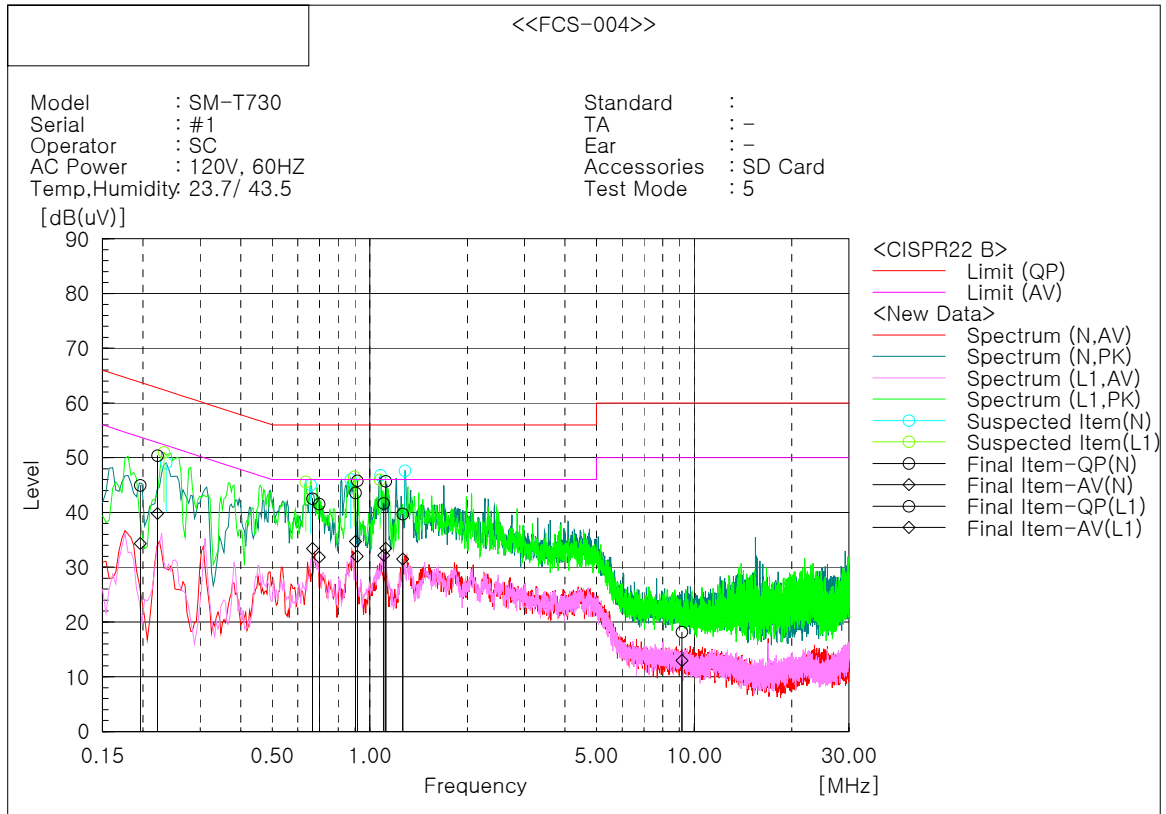
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph

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.

## Operating Mode 5



## Final Result

## --- N Phase ---

No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	0.19614	34.8	24.2	10.1	44.9	34.3	63.8	53.8	18.9	19.5	
2	0.69913	31.6	21.9	10.0	41.6	31.9	56.0	46.0	14.4	14.1	
3	0.9143	35.9	22.1	9.9	45.8	32.0	56.0	46.0	10.2	14.0	
4	1.10424	31.7	22.3	9.9	41.6	32.2	56.0	46.0	14.4	13.8	
5	1.263	29.8	21.6	9.9	39.7	31.5	56.0	46.0	16.3	14.5	

## --- L1 Phase ---

No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV	Remark
	[MHz]	[dB(uV)]	[dB(uV)]	[dB]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB(uV)]	[dB]	[dB]	
1	0.22179	40.5	29.9	9.9	50.4	39.8	62.8	52.8	12.4	13.0	
2	0.66584	32.5	23.4	10.0	42.5	33.4	56.0	46.0	13.5	12.6	
3	0.90304	33.7	24.8	9.9	43.6	34.7	56.0	46.0	12.4	11.3	
4	1.12076	35.8	23.6	9.9	45.7	33.5	56.0	46.0	10.3	12.5	
5	9.16193	8.0	2.9	10.1	18.1	13.0	60.0	50.0	41.9	37.0	

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.

**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.

--- End of page ---

## **7. CONCLUSION**

The data collected relate only the item(s) tested and show that the SM-T730 has been tested to comply with the requirements specified in §15.107 and §15.109 of the FCC Rules.

**--- End of Report ---**