

EMI TEST REPORT

FCC CERTIFICATION

Applicant:

SAMSUNG Electronics Co., Ltd.

**129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Korea**

Date of Issue: February 28, 2019

Test Report No. HCT-EM-1902-FC006-R1

Test Site: HCT CO., LTD.

FCC ID :

A3LSMT515

Applicable Standards : FCC CFR 47 PART 15 Subpart B Class B
ANSI C63.4-2014

EUT Type : Tablet

Model Name : SM-T515

Series Model Name : SM-T515N, SM-T517

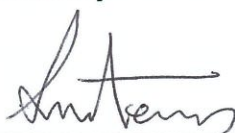
Date of Test : February 19, 2019 to February 21, 2019

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

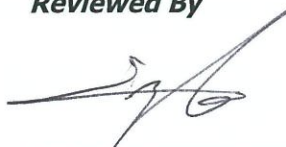
HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

Tested By



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Test Engineer
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Certification Division

Reviewed By



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EMC Team
Certification Division

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REVISION HISTORY

The revision history for this document is shown in table.

Report No.	Issue Date	Information About Changes
HCT-EM-1902-FC006	February 22, 2019	Initial Release
HCT-EM-1902-FC006-R1	February 28, 2019	Revised Operating Mode



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	A3LSMT515
Model name	SM-T515
Series model name	SM-T515N, SM-T517
EUT type	Tablet
Frequency band	GSM 850/1900, WCDMA 850/1700/1900, LTE B2/4/5/12/17/66, WLAN 2.4 GHz / 5 GHz
Power rating	Travel adaptor: Input: AC 100 to 240 V, 50/60 Hz, 0.3 A Output: DC 5.0 V 1.55 A

1.2 Equipment Units Tested

All equipment descriptions used in the tested system (including inserted cards) are:

Device Type	Model Name	Serial Number	Manufacturer	FCC ID / DoC
EUT	SM-T515	-	SAMSUNG	A3LSMT515
Notebook PC	ProBook6560b	5CB2053MXF	HP	-
Notebook PC adaptor	Series PPP009L-E	-	LITE-ON TECHNOLOGY (CHANGZHOU)	-
Gateway	TL-WR747N	-	TP Link	-
Gateway adaptor	T090060-2H1	-	TP Link	-
Serial mouse	Serial 2 Button mouse	02031069	Radio Shack	FSUGMZE3
RJ45 cable	-	-	-	-
TA	EP-TA50EWE	-	DONGYANG E&P	-
Data Cable	ECB-DU68WE	-	RFTech	-
Earphone	EO-EG920BW	-	BUJEON	-
Micro SD card (64 GB)	-	-	SAMSUNG	-



1.3 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	USB Type C	Y	Y	(P,D) 1.0
	Earphone	N/A	N	(D) 1.2
Notebook PC	RJ 45	N/A	N	(D) 1.6
	Serial(Mouse)	N/A	Y	(D) 1.8
	DC IN	N	N/A	(P) 1.8
Gateway	DC IN	N	N/A	(P) 1.8

* The marked “(D)” means the data cable and “(P)” means the power cable.

1.4 Noise Suppression Parts on Cable (I/O Cable)

Product Name	Port	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
EUT	USB Type C	N	N/A	Y	Both End
	Earphone	N	N/A	Y	EUT End
Notebook PC	RJ 45	N	N/A	N	N/A
	Serial(Mouse)	N	N/A	Y	Notebook End



1.5. Test Facility

Test site is located at 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, SOUTH KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1 GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

Measurement Facilities	Registration Number
Radiated Field strength measurement facility 3 m Semi Anechoic chamber	90661
Radiated Field strength measurement facility 10 m Semi Anechoic chamber	

1.6 Calibration of Measuring Instrument

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

1.7 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Emission (0.15 MHz to 30 MHz)	1.82 dB
Radiated Emissions (30 MHz to 1 GHz)	5.20 dB
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB
Radiated Emissions (18 GHz to 40 GHz)	5.40 dB



2. LIST OF TEST EQUIPMENT

<u>Type</u>	<u>Manufacturer</u>	<u>Model Name</u>	<u>Serial Number</u>	<u>Calibration Cycle</u>	<u>CAL Date</u>
<u>Conducted Emission</u>					
☒ EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	06.25.2018
☒ LISN	Rohde & Schwarz	ENV216	102245	1 year	12.12.2018
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	05.03.2018
☒ Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.21.2018
☒ Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
☒ Software	Rohde & Schwarz	EMC32 VER8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ Trilog Antenna	Schwarzbeck	VULB 9168	00847	2 year	04.13.2018
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	1060	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒ Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.21.2018
☒ Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-
-For measurement above 1 GHz					
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	07.27.2018
☒ Antenna master	INNCO Systems	MA4640-XP-ET	-	N/A	-
☒ Antenna master controller	INNCO Systems	CO3000	CO3000/870/ 35990515/L	N/A	-
☒ Turn Table	INNCO Systems	1060	-	N/A	-
☒ Turn Table controller	INNCO Systems	CO2000	CO2000/095/ 7590304/L	N/A	-
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	01836	2 year	05.14.2018
☒ Low Noise Amplifier	TESTEK	TK-PA18H	170034-L	1 year	03.06.2018
☒ Power Amplifier	TESTEK	TK-PA1840H	170030-L	1 year	12.17.2018
☒ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170#786	2 year	12.05.2017
☒ Radio communication analyzer	ANRITSU	MT8820C	6201138643	1 year	08.21.2018
☒ Antenna (for Communication)	Schwarzbeck	USLP9142	VSLP 9142-200	-	-
☐ Highpass Filter	Wainwright Instruments	WHKX1.0/15G-12SS	42	1 year	08.02.2018
☒ Software	Rohde & Schwarz	EMC32 VER8.40.0	-	-	-



3. DESCRIPTION OF MEASUREMENTS

3.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 7.3

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

[Conducted Emission Limits]

Frequency (MHz)	Resolution Bandwidth (kHz)	Quasi-Peak (dB(μV))	Average (dB(μV))
0.15 to 0.5	9	66 to 56*	56 to 46*
0.5 to 5	9	56	46
5 to 30	9	60	50

**Decreases with the logarithm of the frequency.*



3.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014, Clause 8.3

- a. The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- g. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.(1 GHz to 40 GHz)

[Radiated Emission Limits]

Frequency (MHz)	Antenna Distance (m)	Field Strength ($\mu\text{V}/\text{m}$)	Quasi-Peak ($\text{dB}(\mu\text{V})/\text{m}$)
30 to 88	3	100	40.0
88 to 216	3	150	43.5
216 to 960	3	200	46.0
Above 960	3	500	54.0
Frequency (MHz)	Antenna Distance (m)	Peak ($\text{dB}(\mu\text{V})/\text{m}$)	Average ($\text{dB}(\mu\text{V})/\text{m}$)
Above 1 000	3	74	54

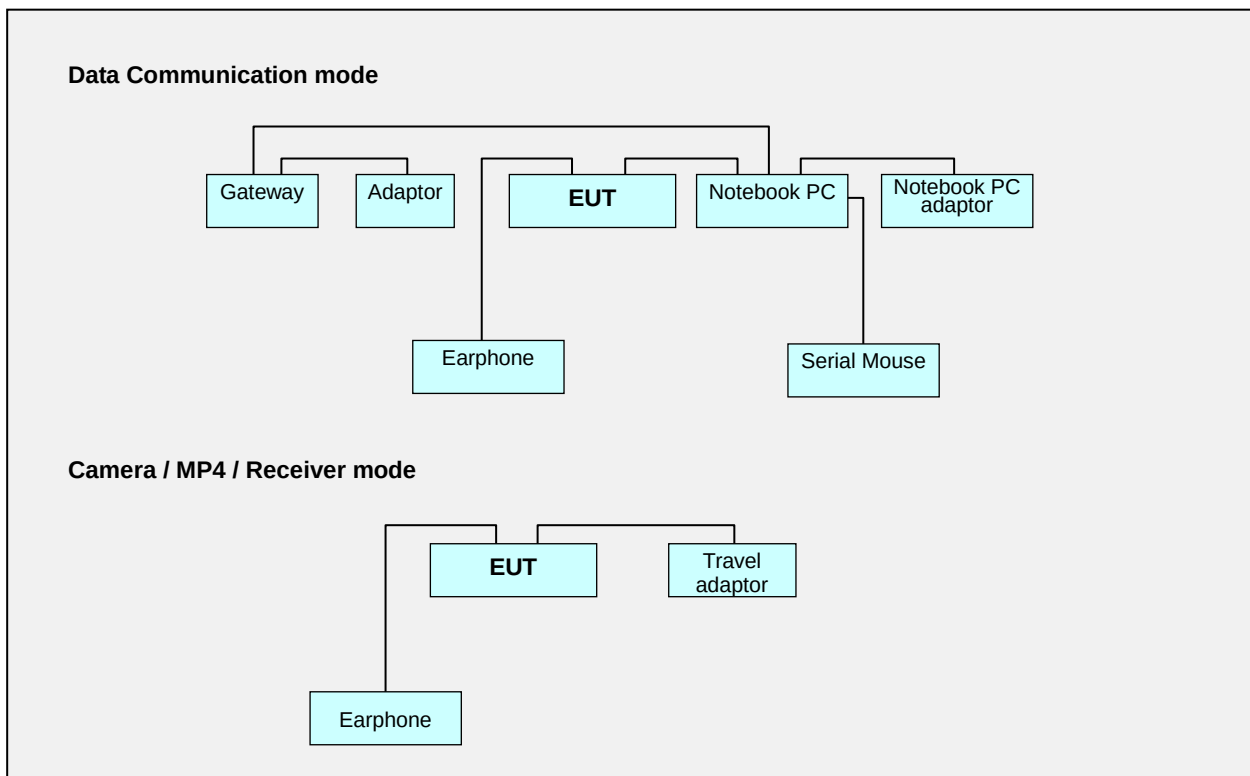


3.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

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 to 108	1 000
108 to 500	2 000
500 to 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

3.3 Configuration of Tested System



Non-Conductive Table
Power Line: 120 VAC, 60 Hz



4. PRELIMINARY TEST

During preliminary tests, the following operating mode was investigated.

- Data Communication
- Rear / Front Camera (Preview/Recording)
- MP4 Play
- LTE B5 Idle (Middle CH)
- WCDMA 850 Idle (Middle CH)
- GSM 850 Idle (Middle CH)
- LTE B12+B17 Idle (Low/Middle/High CH)

4.1 Conducted Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes:

- Data Communication
- Rear Camera Preview / Front Camera Preview / MP4 Play
- Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording
- Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording

NOTE.

1. The worst case of operating mode is reported.

4.2 Radiated Emission

It was tested the following operating mode, after connecting all peripheral devices.

Operating Modes:

-For Measurement Below 1 GHz

- Data Communication
- Rear Camera Preview / Front Camera Preview / MP4 Play
- Receiver mode (LTE B5 Low CH Idle)
- Receiver mode (LTE B5 Middle CH Idle)
- Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording
- Receiver mode (LTE B12+B17 Low CH Idle)
- Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording
- Receiver mode (LTE B12+B17 High CH Idle)

-For Measurement Above 1 GHz

- Data Communication
- Rear Camera Preview / Front Camera Preview / MP4 Play
- Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording
- Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording

NOTE.

1. Three orientations have been investigated and the worst case orientation is reported.
2. The worst case of operating mode is reported.



5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

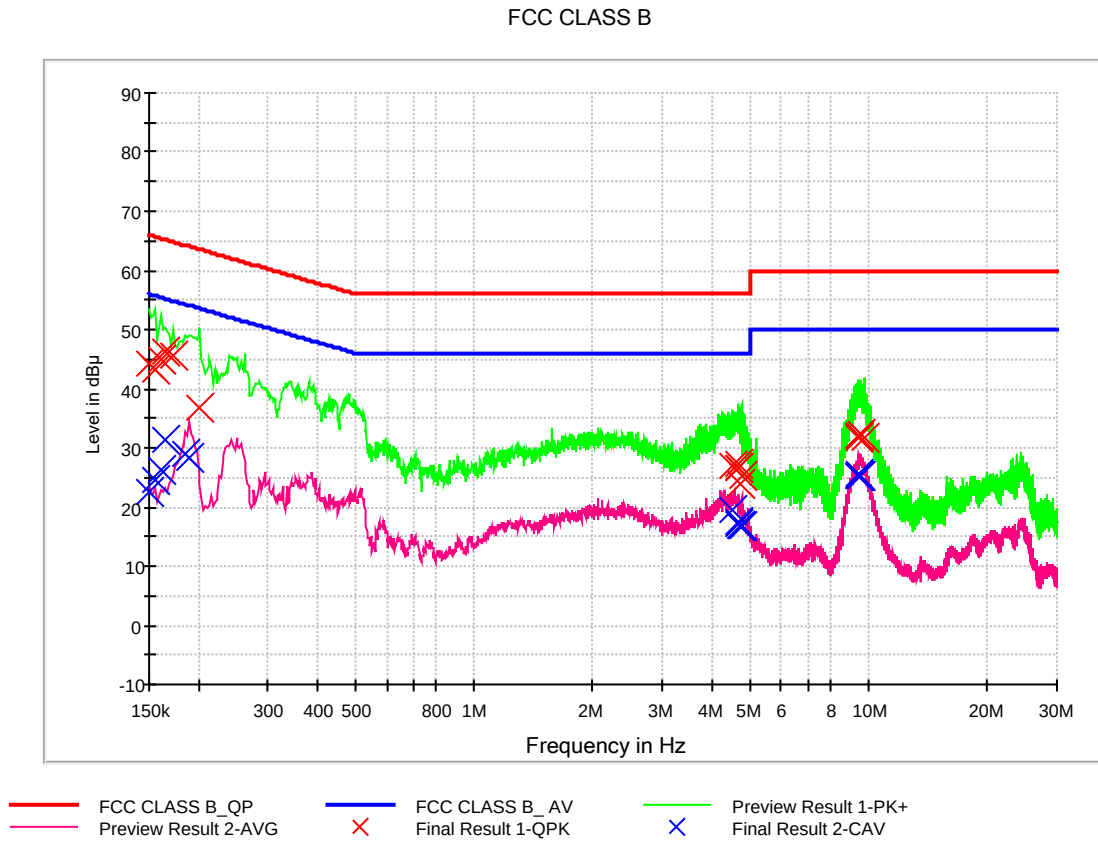
5.1 Conducted Emission

The test results of conducted emission at mains ports provide the following information:

Applicable Standards	FCC PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Worst Case of Operating Mode	Data Communication MP4 Play Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording
Kind of Test Site	Shielded Room
Temperature	20.6 °C
Relative Humidity	41.5 %
Test Date	February 20, 2019

- Calculation Formula:

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage

**Figure 1: Conducted Emission, Data Communication, Line (L1)**



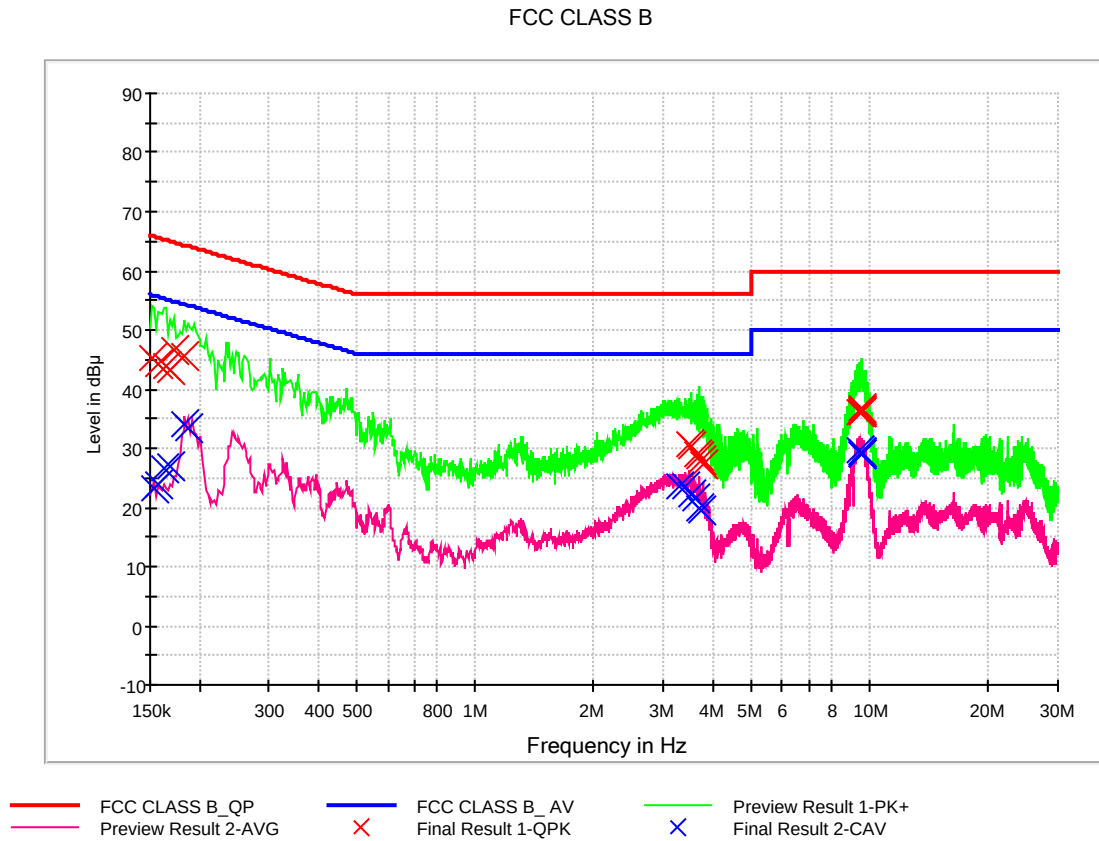
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	44.1	9.000	L1	9.6	21.9	66.0
0.156000	43.4	9.000	L1	9.6	22.3	65.7
0.160000	44.9	9.000	L1	9.6	20.6	65.5
0.164000	46.2	9.000	L1	9.6	19.0	65.3
0.172000	45.6	9.000	L1	9.6	19.3	64.9
0.202000	36.8	9.000	L1	9.7	26.7	63.5
4.510000	27.0	9.000	L1	9.8	29.0	56.0
4.650000	27.5	9.000	L1	9.8	28.5	56.0
4.672000	26.5	9.000	L1	9.8	29.5	56.0
4.692000	26.5	9.000	L1	9.8	29.5	56.0
4.724000	24.0	9.000	L1	9.8	32.0	56.0
4.756000	25.1	9.000	L1	9.8	30.9	56.0
9.420000	31.9	9.000	L1	10.0	28.1	60.0
9.432000	31.7	9.000	L1	10.0	28.3	60.0
9.458000	32.1	9.000	L1	10.0	27.9	60.0
9.466000	32.1	9.000	L1	10.0	27.9	60.0
9.556000	32.3	9.000	L1	10.0	27.7	60.0
9.724000	31.8	9.000	L1	10.0	28.2	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	22.5	9.000	L1	9.6	33.5	56.0
0.156000	24.5	9.000	L1	9.6	31.2	55.7
0.160000	26.4	9.000	L1	9.6	29.0	55.5
0.164000	31.3	9.000	L1	9.6	24.0	55.3
0.186000	29.0	9.000	L1	9.7	25.2	54.2
0.190000	28.2	9.000	L1	9.7	25.9	54.0
4.510000	19.4	9.000	L1	9.8	26.6	46.0
4.672000	17.5	9.000	L1	9.8	28.5	46.0
4.692000	17.0	9.000	L1	9.8	29.0	46.0
4.704000	16.9	9.000	L1	9.8	29.1	46.0
4.724000	16.9	9.000	L1	9.8	29.1	46.0
4.756000	16.9	9.000	L1	9.8	29.1	46.0
9.420000	25.2	9.000	L1	10.0	24.8	50.0
9.426000	25.6	9.000	L1	10.0	24.4	50.0
9.432000	25.2	9.000	L1	10.0	24.8	50.0
9.452000	25.1	9.000	L1	10.0	24.9	50.0
9.466000	25.4	9.000	L1	10.0	24.6	50.0
9.556000	25.2	9.000	L1	10.0	24.8	50.0

**Figure 2: Conducted Emission, Data Communication, Line (N)**



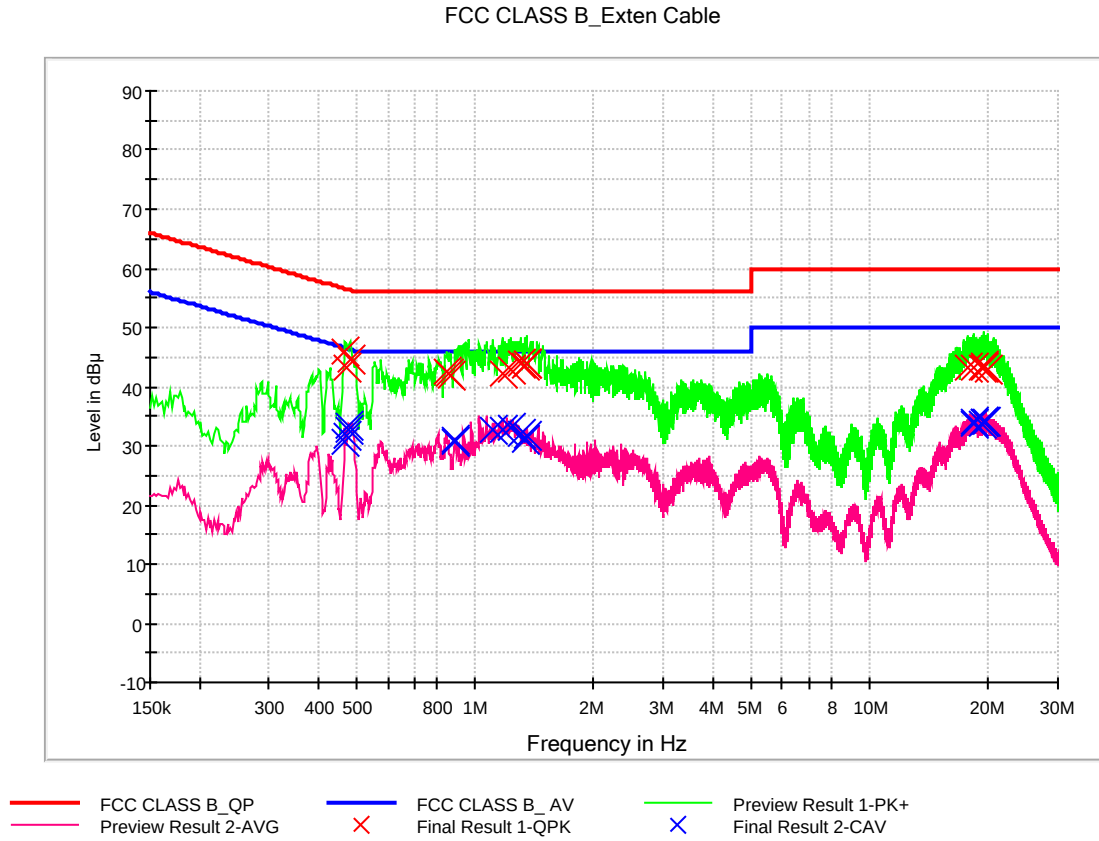
QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	45.2	9.000	N	9.6	20.7	65.9
0.158000	44.4	9.000	N	9.6	21.2	65.6
0.164000	43.7	9.000	N	9.6	21.5	65.3
0.168000	43.2	9.000	N	9.6	21.9	65.1
0.172000	46.6	9.000	N	9.6	18.2	64.9
0.184000	45.6	9.000	N	9.6	18.7	64.3
3.492000	30.7	9.000	N	9.8	25.3	56.0
3.546000	30.3	9.000	N	9.8	25.7	56.0
3.662000	29.1	9.000	N	9.8	26.9	56.0
3.696000	28.6	9.000	N	9.8	27.4	56.0
3.720000	27.8	9.000	N	9.8	28.2	56.0
3.786000	27.2	9.000	N	9.8	28.8	56.0
9.374000	36.1	9.000	N	9.9	23.9	60.0
9.482000	36.4	9.000	N	9.9	23.6	60.0
9.516000	36.7	9.000	N	9.9	23.3	60.0
9.520000	36.1	9.000	N	9.9	23.9	60.0
9.526000	36.5	9.000	N	9.9	23.5	60.0
9.534000	36.2	9.000	N	9.9	23.8	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	23.1	9.000	N	9.6	32.7	55.8
0.158000	23.8	9.000	N	9.6	31.7	55.6
0.162000	26.7	9.000	N	9.6	28.7	55.4
0.168000	26.9	9.000	N	9.6	28.2	55.1
0.184000	34.0	9.000	N	9.6	20.3	54.3
0.188000	33.2	9.000	N	9.6	20.9	54.1
3.292000	23.7	9.000	N	9.8	22.3	46.0
3.390000	23.7	9.000	N	9.8	22.3	46.0
3.546000	22.2	9.000	N	9.8	23.8	46.0
3.602000	21.4	9.000	N	9.8	24.6	46.0
3.696000	20.0	9.000	N	9.8	26.0	46.0
3.720000	19.4	9.000	N	9.8	26.6	46.0
9.460000	29.5	9.000	N	9.9	20.5	50.0
9.482000	29.1	9.000	N	9.9	20.9	50.0
9.516000	29.2	9.000	N	9.9	20.8	50.0
9.526000	29.3	9.000	N	9.9	20.7	50.0
9.534000	29.0	9.000	N	9.9	21.0	50.0
9.566000	28.8	9.000	N	9.9	21.2	50.0

**Figure 3: Conducted Emission, MP4 Play, Line (L1)**



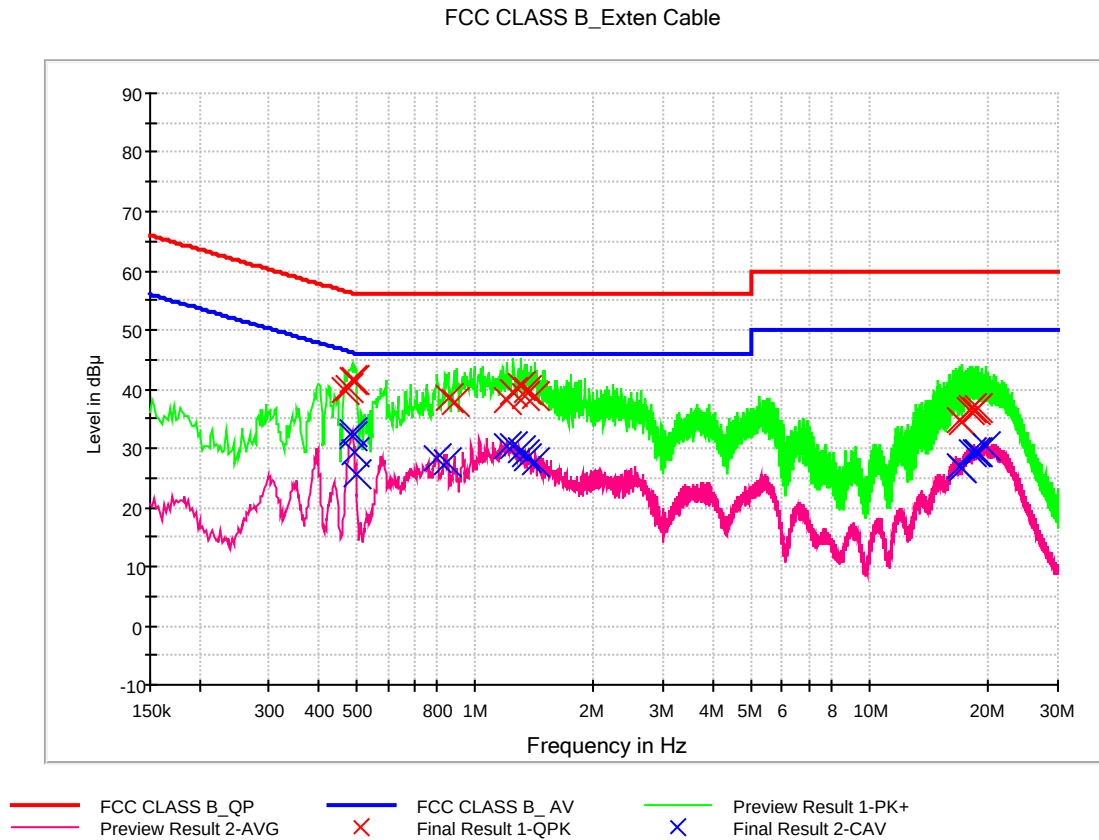
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	46.0	9.000	L1	9.8	10.6	56.5
0.474000	43.3	9.000	L1	9.8	13.1	56.4
0.482000	44.6	9.000	L1	9.8	11.7	56.3
0.846000	42.7	9.000	L1	9.8	13.4	56.0
0.852000	42.3	9.000	L1	9.8	13.7	56.0
0.866000	41.9	9.000	L1	9.8	14.1	56.0
1.170000	42.3	9.000	L1	9.8	13.7	56.0
1.234000	42.8	9.000	L1	9.8	13.2	56.0
1.304000	43.9	9.000	L1	9.9	12.1	56.0
1.344000	43.6	9.000	L1	9.9	12.4	56.0
1.348000	43.9	9.000	L1	9.9	12.1	56.0
1.352000	43.9	9.000	L1	9.9	12.1	56.0
17.814000	43.3	9.000	L1	10.5	16.7	60.0
18.398000	43.1	9.000	L1	10.5	16.9	60.0
19.198000	43.1	9.000	L1	10.6	16.9	60.0
19.382000	43.2	9.000	L1	10.6	16.8	60.0
19.398000	43.4	9.000	L1	10.6	16.6	60.0
19.838000	42.9	9.000	L1	10.6	17.1	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	30.8	9.000	L1	9.8	15.7	46.5
0.472000	31.9	9.000	L1	9.8	14.6	46.5
0.476000	32.7	9.000	L1	9.8	13.7	46.4
0.480000	33.5	9.000	L1	9.8	12.8	46.3
0.888000	31.1	9.000	L1	9.8	14.9	46.0
0.892000	30.8	9.000	L1	9.8	15.2	46.0
1.108000	32.6	9.000	L1	9.8	13.4	46.0
1.170000	32.8	9.000	L1	9.8	13.2	46.0
1.234000	33.2	9.000	L1	9.8	12.8	46.0
1.304000	32.1	9.000	L1	9.9	13.9	46.0
1.344000	31.1	9.000	L1	9.9	14.9	46.0
1.352000	31.6	9.000	L1	9.9	14.4	46.0
18.304000	34.0	9.000	L1	10.5	16.0	50.0
18.338000	33.8	9.000	L1	10.5	16.2	50.0
19.198000	33.7	9.000	L1	10.6	16.3	50.0
19.382000	34.1	9.000	L1	10.6	15.9	50.0
19.398000	34.1	9.000	L1	10.6	15.9	50.0
19.798000	34.1	9.000	L1	10.6	15.9	50.0

**Figure 4: Conducted Emission, MP4 Play, Line (N)**



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	39.7	9.000	N	9.9	16.9	56.5
0.480000	40.2	9.000	N	9.9	16.1	56.3
0.486000	41.6	9.000	N	9.9	14.7	56.2
0.496000	41.6	9.000	N	9.9	14.5	56.1
0.854000	38.6	9.000	N	10.0	17.4	56.0
0.884000	37.8	9.000	N	10.0	18.2	56.0
1.210000	38.2	9.000	N	10.0	17.8	56.0
1.252000	39.5	9.000	N	10.0	16.5	56.0
1.300000	40.4	9.000	N	10.0	15.6	56.0
1.330000	38.8	9.000	N	10.1	17.2	56.0
1.348000	39.9	9.000	N	10.1	16.1	56.0
1.414000	38.8	9.000	N	10.1	17.2	56.0
16.886000	34.8	9.000	N	10.7	25.2	60.0
17.058000	34.4	9.000	N	10.8	25.6	60.0
17.908000	36.5	9.000	N	10.8	23.5	60.0
18.220000	36.8	9.000	N	10.8	23.2	60.0
18.658000	36.4	9.000	N	10.8	23.6	60.0
18.706000	36.7	9.000	N	10.8	23.3	60.0

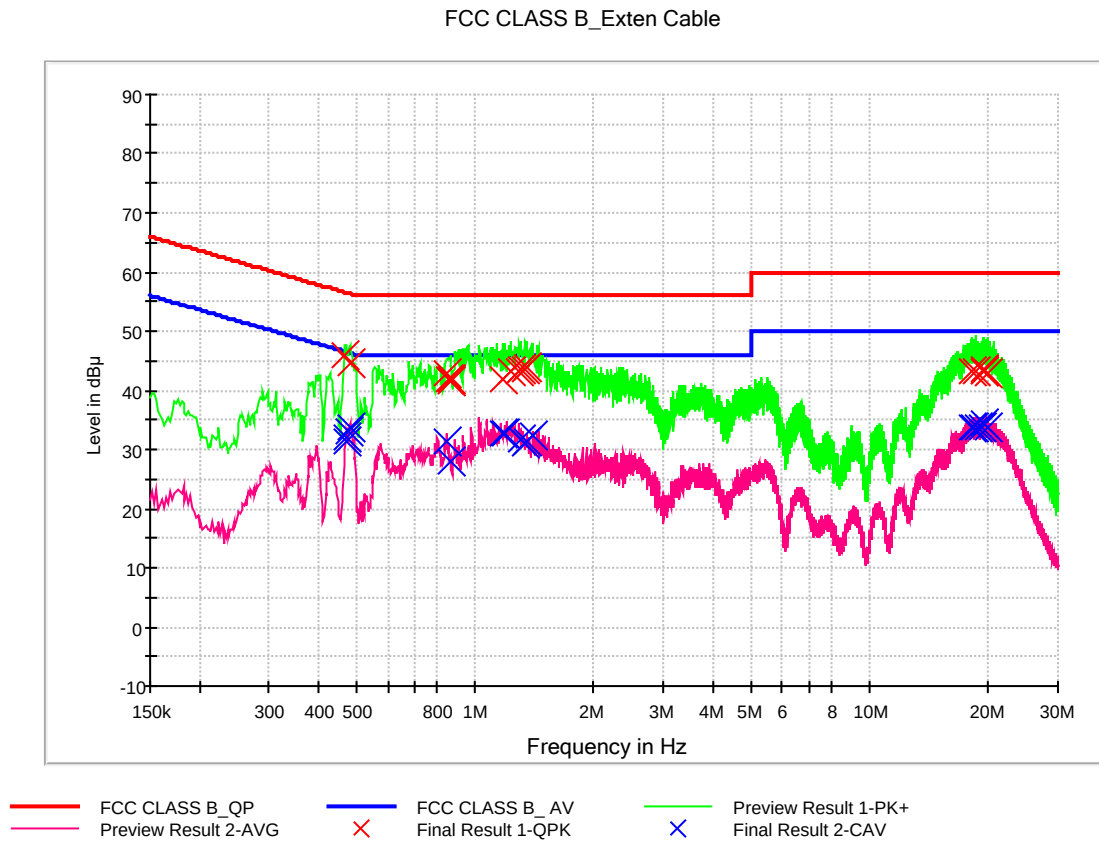


CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.486000	32.7	9.000	N	9.9	13.5	46.2
0.490000	32.0	9.000	N	9.9	14.2	46.2
0.494000	29.5	9.000	N	9.9	16.6	46.1
0.498000	25.7	9.000	N	9.9	20.4	46.0
0.800000	28.2	9.000	N	9.9	17.8	46.0
0.848000	27.7	9.000	N	10.0	18.3	46.0
1.210000	30.4	9.000	N	10.0	15.6	46.0
1.252000	30.3	9.000	N	10.0	15.7	46.0
1.300000	29.7	9.000	N	10.0	16.3	46.0
1.330000	28.9	9.000	N	10.1	17.1	46.0
1.348000	28.4	9.000	N	10.1	17.6	46.0
1.414000	27.7	9.000	N	10.1	18.3	46.0
16.886000	26.8	9.000	N	10.7	23.2	50.0
17.058000	26.8	9.000	N	10.8	23.2	50.0
18.220000	29.2	9.000	N	10.8	20.8	50.0
18.658000	29.2	9.000	N	10.8	20.8	50.0
18.706000	29.3	9.000	N	10.8	20.7	50.0
19.706000	30.2	9.000	N	10.9	19.8	50.0



Figure 5: Conducted Emission, Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording, Line (L1)





QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	45.9	9.000	L1	9.8	10.6	56.5
0.482000	44.4	9.000	L1	9.8	11.9	56.3
0.846000	42.9	9.000	L1	9.8	13.1	56.0
0.856000	41.8	9.000	L1	9.8	14.2	56.0
0.864000	41.9	9.000	L1	9.8	14.1	56.0
0.868000	41.4	9.000	L1	9.8	14.6	56.0
1.172000	41.7	9.000	L1	9.8	14.3	56.0
1.234000	43.3	9.000	L1	9.8	12.7	56.0
1.296000	43.3	9.000	L1	9.9	12.7	56.0
1.304000	43.7	9.000	L1	9.9	12.3	56.0
1.344000	43.6	9.000	L1	9.9	12.4	56.0
1.348000	44.0	9.000	L1	9.9	12.0	56.0
18.232000	43.3	9.000	L1	10.5	16.7	60.0
18.498000	43.3	9.000	L1	10.5	16.7	60.0
19.386000	43.3	9.000	L1	10.6	16.7	60.0
19.404000	43.3	9.000	L1	10.6	16.7	60.0
19.562000	43.5	9.000	L1	10.6	16.5	60.0
19.972000	42.9	9.000	L1	10.6	17.1	60.0

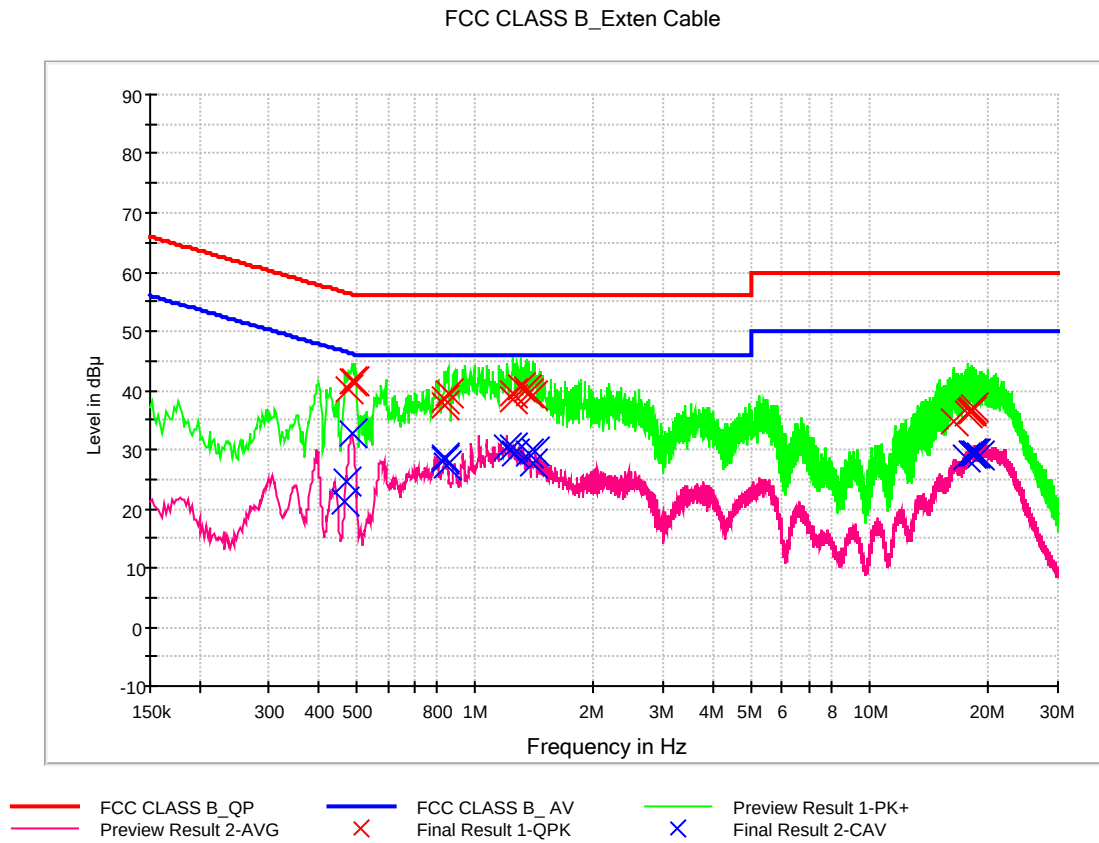


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.470000	31.4	9.000	L1	9.8	15.1	46.5
0.474000	32.2	9.000	L1	9.8	14.3	46.4
0.478000	33.2	9.000	L1	9.8	13.2	46.4
0.482000	33.7	9.000	L1	9.8	12.6	46.3
0.846000	31.5	9.000	L1	9.8	14.5	46.0
0.866000	27.8	9.000	L1	9.8	18.2	46.0
1.172000	32.6	9.000	L1	9.8	13.4	46.0
1.192000	32.8	9.000	L1	9.8	13.2	46.0
1.306000	31.6	9.000	L1	9.9	14.4	46.0
1.344000	31.1	9.000	L1	9.9	14.9	46.0
1.350000	31.4	9.000	L1	9.9	14.6	46.0
1.402000	32.4	9.000	L1	9.9	13.6	46.0
18.062000	33.7	9.000	L1	10.5	16.3	50.0
18.288000	33.8	9.000	L1	10.5	16.2	50.0
18.824000	33.9	9.000	L1	10.6	16.1	50.0
19.326000	33.9	9.000	L1	10.6	16.1	50.0
19.478000	34.4	9.000	L1	10.6	15.6	50.0
19.972000	33.9	9.000	L1	10.6	16.1	50.0



Figure 6: Conducted Emission, Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording, Line (N)





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.480000	40.3	9.000	N	9.9	16.1	56.3
0.486000	41.5	9.000	N	9.9	14.7	56.2
0.496000	41.6	9.000	N	9.9	14.5	56.1
0.838000	37.4	9.000	N	10.0	18.6	56.0
0.842000	38.5	9.000	N	10.0	17.5	56.0
0.852000	39.5	9.000	N	10.0	16.5	56.0
1.246000	38.4	9.000	N	10.0	17.6	56.0
1.250000	39.3	9.000	N	10.0	16.7	56.0
1.300000	40.6	9.000	N	10.0	15.4	56.0
1.348000	40.0	9.000	N	10.1	16.0	56.0
1.372000	39.4	9.000	N	10.1	16.6	56.0
1.396000	39.2	9.000	N	10.1	16.8	56.0
16.310000	34.7	9.000	N	10.7	25.3	60.0
17.770000	36.2	9.000	N	10.8	23.8	60.0
17.916000	36.5	9.000	N	10.8	23.5	60.0
18.054000	36.8	9.000	N	10.8	23.2	60.0
18.240000	36.6	9.000	N	10.8	23.4	60.0
18.264000	37.0	9.000	N	10.8	23.0	60.0

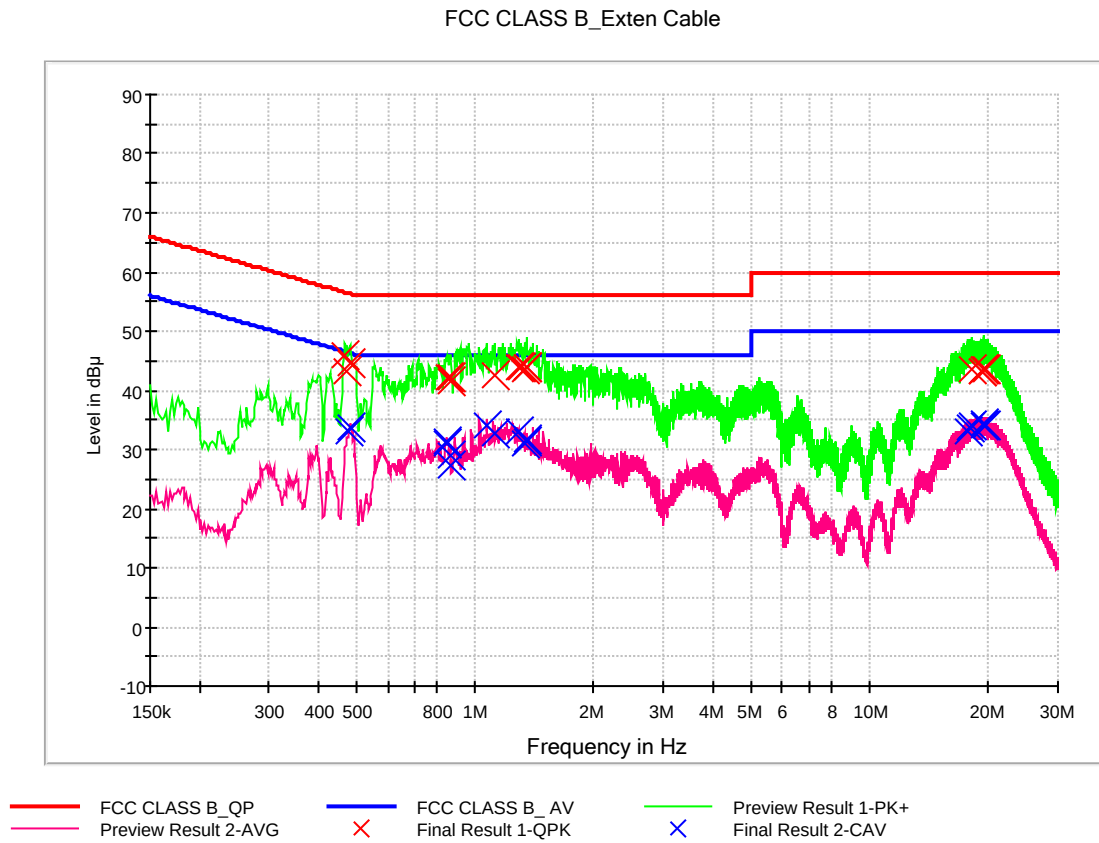


CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.466000	21.3	9.000	N	9.9	25.2	46.6
0.470000	24.7	9.000	N	9.9	21.8	46.5
0.486000	32.8	9.000	N	9.9	13.5	46.2
0.838000	28.5	9.000	N	10.0	17.5	46.0
0.842000	28.4	9.000	N	10.0	17.6	46.0
0.850000	27.2	9.000	N	10.0	18.8	46.0
1.210000	30.3	9.000	N	10.0	15.7	46.0
1.250000	30.3	9.000	N	10.0	15.7	46.0
1.258000	29.4	9.000	N	10.0	16.6	46.0
1.372000	29.4	9.000	N	10.1	16.6	46.0
1.396000	27.5	9.000	N	10.1	18.5	46.0
1.420000	29.8	9.000	N	10.1	16.2	46.0
17.610000	28.6	9.000	N	10.8	21.4	50.0
18.190000	29.4	9.000	N	10.8	20.6	50.0
18.240000	29.4	9.000	N	10.8	20.6	50.0
18.256000	29.3	9.000	N	10.8	20.7	50.0
18.472000	29.4	9.000	N	10.8	20.6	50.0
18.996000	29.1	9.000	N	10.8	20.9	50.0



Figure 7: Conducted Emission, Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording, Line (L1)





QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	45.9	9.000	L1	9.8	10.6	56.5
0.472000	43.3	9.000	L1	9.8	13.1	56.5
0.482000	44.5	9.000	L1	9.8	11.8	56.3
0.852000	42.4	9.000	L1	9.8	13.6	56.0
0.862000	42.3	9.000	L1	9.8	13.7	56.0
0.868000	41.7	9.000	L1	9.8	14.3	56.0
1.122000	42.5	9.000	L1	9.8	13.5	56.0
1.290000	43.8	9.000	L1	9.9	12.2	56.0
1.302000	44.0	9.000	L1	9.9	12.0	56.0
1.344000	43.6	9.000	L1	9.9	12.4	56.0
1.348000	43.9	9.000	L1	9.9	12.1	56.0
1.352000	44.0	9.000	L1	9.9	12.0	56.0
18.194000	43.5	9.000	L1	10.5	16.5	60.0
19.168000	43.1	9.000	L1	10.6	16.9	60.0
19.180000	43.2	9.000	L1	10.6	16.8	60.0
19.364000	43.4	9.000	L1	10.6	16.6	60.0
19.382000	43.5	9.000	L1	10.6	16.5	60.0
19.646000	43.4	9.000	L1	10.6	16.6	60.0

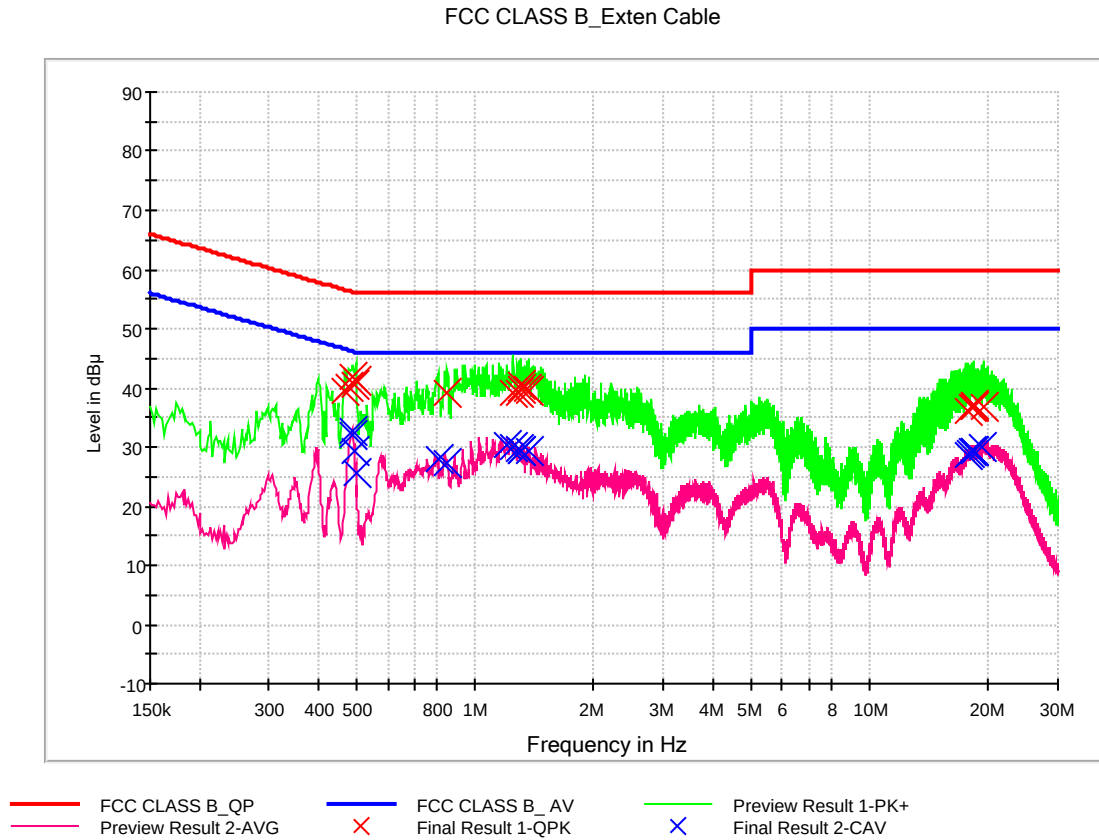


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.478000	33.2	9.000	L1	9.8	13.2	46.4
0.482000	33.7	9.000	L1	9.8	12.6	46.3
0.844000	31.5	9.000	L1	9.8	14.5	46.0
0.850000	31.1	9.000	L1	9.8	14.9	46.0
0.862000	28.9	9.000	L1	9.8	17.1	46.0
0.870000	27.3	9.000	L1	9.8	18.7	46.0
1.066000	34.1	9.000	L1	9.8	11.9	46.0
1.122000	32.6	9.000	L1	9.8	13.4	46.0
1.288000	33.1	9.000	L1	9.9	12.9	46.0
1.344000	31.2	9.000	L1	9.9	14.8	46.0
1.348000	31.4	9.000	L1	9.9	14.6	46.0
1.352000	31.7	9.000	L1	9.9	14.3	46.0
17.696000	33.2	9.000	L1	10.5	16.8	50.0
17.992000	33.7	9.000	L1	10.5	16.3	50.0
18.194000	34.0	9.000	L1	10.5	16.0	50.0
19.382000	34.1	9.000	L1	10.6	15.9	50.0
19.482000	34.3	9.000	L1	10.6	15.7	50.0
19.726000	34.1	9.000	L1	10.6	15.9	50.0



Figure 8: Conducted Emission, Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording, Line (N)





QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.468000	39.6	9.000	N	9.9	17.0	56.5
0.480000	40.2	9.000	N	9.9	16.1	56.3
0.488000	41.9	9.000	N	9.9	14.3	56.2
0.494000	40.5	9.000	N	9.9	15.6	56.1
0.498000	41.3	9.000	N	9.9	14.8	56.0
0.850000	39.3	9.000	N	10.0	16.7	56.0
1.242000	39.0	9.000	N	10.0	17.0	56.0
1.286000	39.1	9.000	N	10.0	16.9	56.0
1.298000	40.0	9.000	N	10.0	16.0	56.0
1.302000	40.7	9.000	N	10.0	15.3	56.0
1.348000	39.9	9.000	N	10.1	16.1	56.0
1.372000	39.4	9.000	N	10.1	16.6	56.0
17.690000	36.2	9.000	N	10.8	23.8	60.0
18.178000	36.9	9.000	N	10.8	23.1	60.0
18.264000	37.0	9.000	N	10.8	23.0	60.0
18.308000	37.0	9.000	N	10.8	23.0	60.0
18.446000	36.7	9.000	N	10.8	23.3	60.0
19.428000	36.9	9.000	N	10.9	23.1	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.486000	32.7	9.000	N	9.9	13.5	46.2
0.490000	32.0	9.000	N	9.9	14.2	46.2
0.494000	29.5	9.000	N	9.9	16.6	46.1
0.498000	25.7	9.000	N	9.9	20.3	46.0
0.804000	28.0	9.000	N	9.9	18.0	46.0
0.850000	27.1	9.000	N	10.0	18.9	46.0
1.198000	30.5	9.000	N	10.0	15.5	46.0
1.242000	30.1	9.000	N	10.0	15.9	46.0
1.286000	29.6	9.000	N	10.0	16.4	46.0
1.298000	29.5	9.000	N	10.0	16.5	46.0
1.302000	29.5	9.000	N	10.0	16.5	46.0
1.372000	29.5	9.000	N	10.1	16.5	46.0
17.690000	28.6	9.000	N	10.8	21.4	50.0
18.002000	29.1	9.000	N	10.8	20.9	50.0
18.178000	29.2	9.000	N	10.8	20.8	50.0
18.250000	29.2	9.000	N	10.8	20.8	50.0
18.266000	29.4	9.000	N	10.8	20.6	50.0
19.308000	29.9	9.000	N	10.9	20.1	50.0



5.2 Radiated Emission

The test results of radiated emission provide the following information:

-For Measurement Below 1 GHz

Applicable Standards	FCC PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Worst Case of Operating Mode	Data Communication MP4 Play Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.3 / 22.0 / 23.1 °C
Relative Humidity	42.2 / 42.1 / 43.5 %
Test Date	February 19 / February 20 / February 21, 2019

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak



Data Communication

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
74.399200	31.9	291.9	H	331.0	17.2	8.1	40.0
500.024000	38.6	100.0	H	233.0	25.2	7.4	46.0
599.946400	36.9	100.0	V	355.0	27.3	9.1	46.0
749.984800	38.5	100.0	H	154.0	30.0	7.5	46.0
800.003200	38.9	100.0	H	107.0	30.1	7.1	46.0
874.999200	40.2	100.0	H	232.0	30.9	5.8	46.0

MP4 Play

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
44.136800	25.0	100.0	V	56.0	20.1	15.0	40.0
59.820800	33.6	100.0	V	43.0	19.6	6.4	40.0
88.661600	28.2	225.2	H	0.0	14.6	15.3	43.5
102.552800	26.0	100.0	V	18.0	15.7	17.5	43.5
148.021600	23.8	125.1	V	222.0	19.9	19.7	43.5
695.651200	28.4	174.7	H	328.0	28.7	17.6	46.0

Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
41.491200	24.3	100.0	V	43.0	20.0	15.7	40.0
60.284000	33.9	100.0	V	41.0	19.5	6.1	40.0
88.367200	27.8	191.9	H	0.0	14.6	15.7	43.5
102.743200	25.4	100.0	V	1.0	15.7	18.1	43.5
138.659200	23.6	100.0	V	200.0	19.6	19.9	43.5
678.017600	28.3	199.7	V	188.0	28.5	17.7	46.0


Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording

Frequency (MHz)	Quasi Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
42.900000	24.0	119.8	V	0.0	20.1	16.0	40.0
60.014400	33.9	100.0	V	36.0	19.5	6.1	40.0
88.484800	28.1	191.9	H	0.0	14.6	15.4	43.5
103.855200	26.3	274.9	H	8.0	15.9	17.2	43.5
146.571200	24.4	100.0	V	254.0	19.9	19.1	43.5
679.612000	28.3	225.3	H	154.0	28.5	17.7	46.0


-For Measurement Above 1 GHz

Applicable Standards	FCC PART 15 Subpart B Class B ANSI C63.4-2014
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Frequency	5 825 MHz
Tested Frequency Range	1 GHz to 30 GHz
Worst Case of Operating Mode	Data Communication MP4 Play Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.1 °C
Relative Humidity	43.5 %
Test Date	February 21, 2019

- Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage



Data Communication

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1399.940000	48.4	217.5	V	197.0	-28.2	25.6	74.0
1995.460000	50.3	113.6	V	58.0	-26.7	23.7	74.0
2660.840000	50.4	100.0	V	0.0	-24.2	23.6	74.0
2814.720000	33.5	249.9	V	72.0	-23.6	40.5	74.0
5991.110000	43.9	100.0	V	356.0	-17.1	30.1	74.0
14758.390000	46.9	138.8	H	20.0	-1.4	27.1	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1399.940000	47.0	217.5	V	197.0	-28.2	7.0	54.0
1995.460000	25.0	113.6	V	58.0	-26.7	29.0	54.0
2660.840000	22.9	100.0	V	0.0	-24.2	31.1	54.0
2814.720000	20.6	249.9	V	72.0	-23.6	33.4	54.0
5991.110000	27.7	100.0	V	356.0	-17.1	26.3	54.0
14758.390000	34.2	138.8	H	20.0	-1.4	19.8	54.0

MP4 Play

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3047.035000	33.5	125.7	V	50.0	-22.7	40.5	74.0
5306.090000	36.8	149.5	H	22.0	-18.1	37.2	74.0
7347.830000	40.9	149.9	V	298.0	-13.3	33.1	74.0
9864.895000	44.5	199.6	V	184.0	-9.5	29.5	74.0
11146.890000	45.3	138.5	V	329.0	-5.4	28.7	74.0
14707.775000	46.8	126.6	V	116.0	-1.4	27.2	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3047.035000	21.0	125.7	V	50.0	-22.7	33.0	54.0
5306.090000	23.9	149.5	H	22.0	-18.1	30.1	54.0
7347.830000	28.1	149.9	V	298.0	-13.3	25.9	54.0
9864.895000	30.8	199.6	V	184.0	-9.5	23.2	54.0
11146.890000	32.5	138.5	V	329.0	-5.4	21.5	54.0
14707.775000	34.2	126.6	V	116.0	-1.4	19.8	54.0



Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3137.890000	33.6	140.6	V	69.0	-22.6	40.4	74.0
5251.365000	38.1	149.5	V	289.0	-18.2	35.9	74.0
7304.075000	40.2	161.5	V	325.0	-13.5	33.8	74.0
10011.085000	43.3	100.0	H	261.0	-9.3	30.7	74.0
10961.460000	45.4	163.5	V	82.0	-5.7	28.6	74.0
14744.260000	47.1	188.6	V	296.0	-1.4	26.9	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3137.890000	21.2	140.6	V	69.0	-22.6	32.8	54.0
5251.365000	24.2	149.5	V	289.0	-18.2	29.8	54.0
7304.075000	27.9	161.5	V	325.0	-13.5	26.1	54.0
10011.085000	30.9	100.0	H	261.0	-9.3	23.1	54.0
10961.460000	32.6	163.5	V	82.0	-5.7	21.4	54.0
14744.260000	33.8	188.6	V	296.0	-1.4	20.2	54.0

Receiver mode (LTE B12+B17 Middle CH Idle) + Front Camera Recording

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3027.225000	33.4	150.0	H	139.0	-22.8	40.6	74.0
5625.125000	37.7	150.0	V	250.0	-17.6	36.3	74.0
7427.760000	41.2	149.9	V	174.0	-12.9	32.8	74.0
9868.580000	43.0	100.0	V	335.0	-9.5	31.0	74.0
10654.585000	45.5	191.4	H	41.0	-6.7	28.5	74.0
14768.635000	46.6	245.4	H	320.0	-1.4	27.4	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3027.225000	20.9	150.0	H	139.0	-22.8	33.1	54.0
5625.125000	24.1	150.0	V	250.0	-17.6	29.9	54.0
7427.760000	28.5	149.9	V	174.0	-12.9	25.5	54.0
9868.580000	30.9	100.0	V	335.0	-9.5	23.1	54.0
10654.585000	32.5	191.4	H	41.0	-6.7	21.5	54.0
14768.635000	33.8	245.4	H	320.0	-1.4	20.2	54.0



6. CONCLUSION

The data collected shows that the **EUT Type: Tablet, FCC ID: A3LSMT515, Model: SM-T515** complies with §15.107 and §15.109 of the FCC rules.



7. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A