

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 15, 2019****Test Report No. HCT-EM-1902-FC003****Test Site: HCT CO., LTD.****FCC ID :****A3LSMM205M**

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

EUT Type : Mobile Phone

Model Name : SM-M205M/DS

Series Model Name : SM-M250M

Date of Test : January 31, 2019 to February 13, 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

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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-FC003	February 15, 2019	Initial Release



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1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	A3LSMM205M
Model name	SM-M205M/DS
Series model name	SM-M250M
EUT type	Mobile Phone
Frequency band	GSM850/1900, WCDMA 850/1700/1900, LTE B2/4(66)/5//12(17)/13/41, BT/WLAN(2.4G)
Power rating	Travel adaptor: Input: AC 100 to 240 V, 50/60 Hz, 0.5 A Output: DC 9.0 V, 1.67 A or DC 5.0 V 2.0 A Battery: Low : 3.6 V / Normal : 3.85 V / High : 4.4 V, Li-ion Battery

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-M205M/DS	-	SAMSUNG	A3LSMM205M
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-TA200	-	DONGYANG	-
Data Cable	EP-DR140AWE	-	KSDCO	-
Earphone	EHS61ASFWE	-	CRESYN	-
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

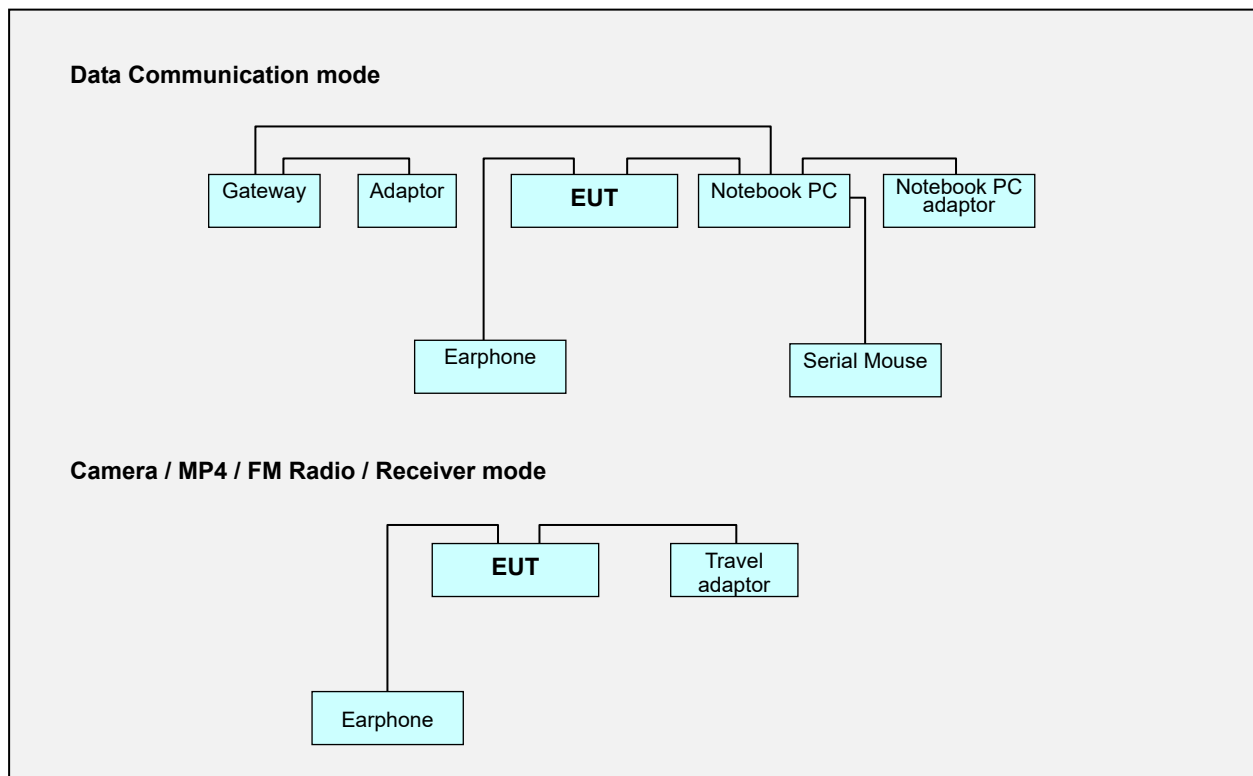


3.2.1 Frequency Range of Radiated Measurements

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
- Front / Rear Camera (Preview/Recording)
- MP4 Play
- FM Radio (Low/Middle/High CH)
- LTE B5 Idle (Middle CH)
- WCDMA 850 Idle (Middle CH)
- GSM 850 Idle (Middle CH)
- LTE B12+B13+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 +FM Radio (Low CH)
- Front Camera Preview + FM Radio (Middle CH)
- FM Radio (High CH)
- MP4 Play
- Receiver mode (LTE B5 High CH Idle) + Rear Camera Recording
- Receiver mode (LTE B12+B13+B17 High 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:

- Data Communication
- Rear Camera Preview +FM Radio (Low CH)
- Front Camera Preview + FM Radio (Middle CH)
- FM Radio (High CH)
- 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+B13+B17 Low CH Idle)
- Receiver mode (LTE B12+B13+B17 Middle CH Idle)
- Receiver mode (LTE B12+B13+B17 High 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

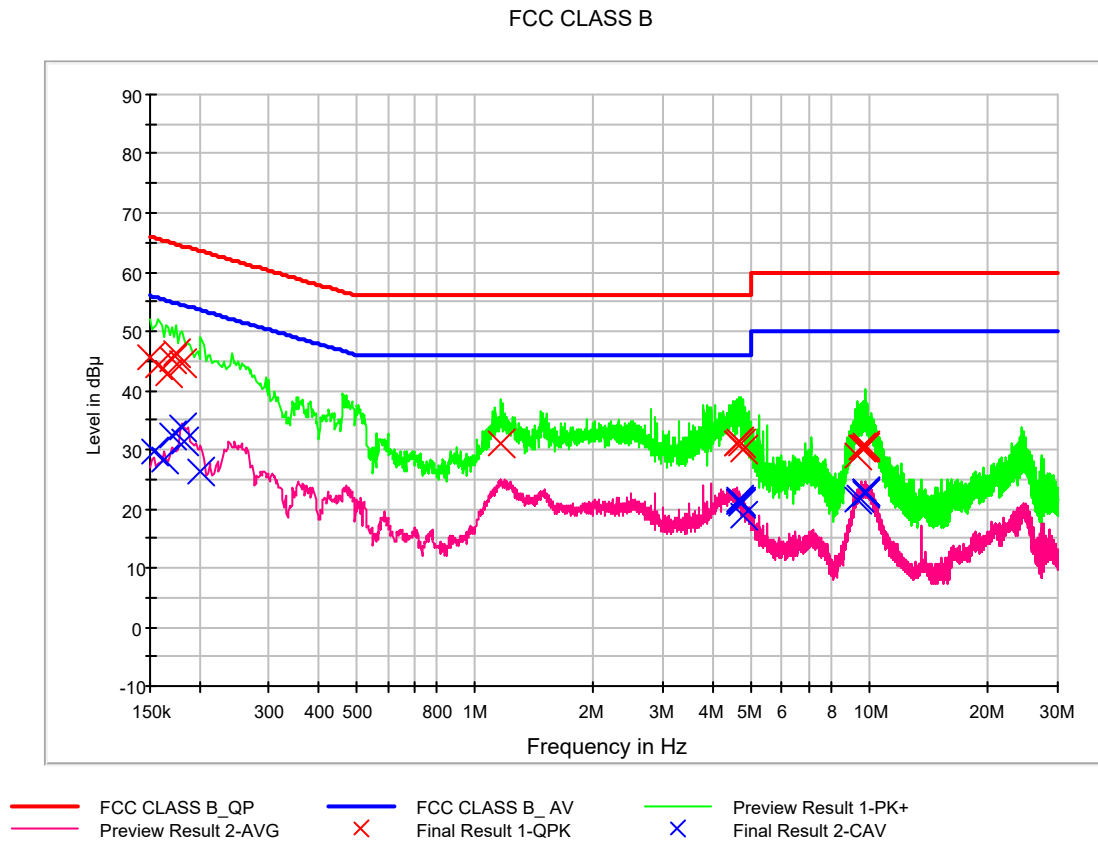
5.1 Conducted Emission

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 Rear Camera Preview +FM Radio (Low CH) Receiver (LTE B5 High CH Idle) + Rear Camera Recording Receiver (LTE B12+B13+B17 High CH Idle) + Front Camera Recording
Kind of Test Site	Shielded Room
Temperature	20.8 °C
Relative Humidity	41.4 %
Test Date	January 31, 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)**



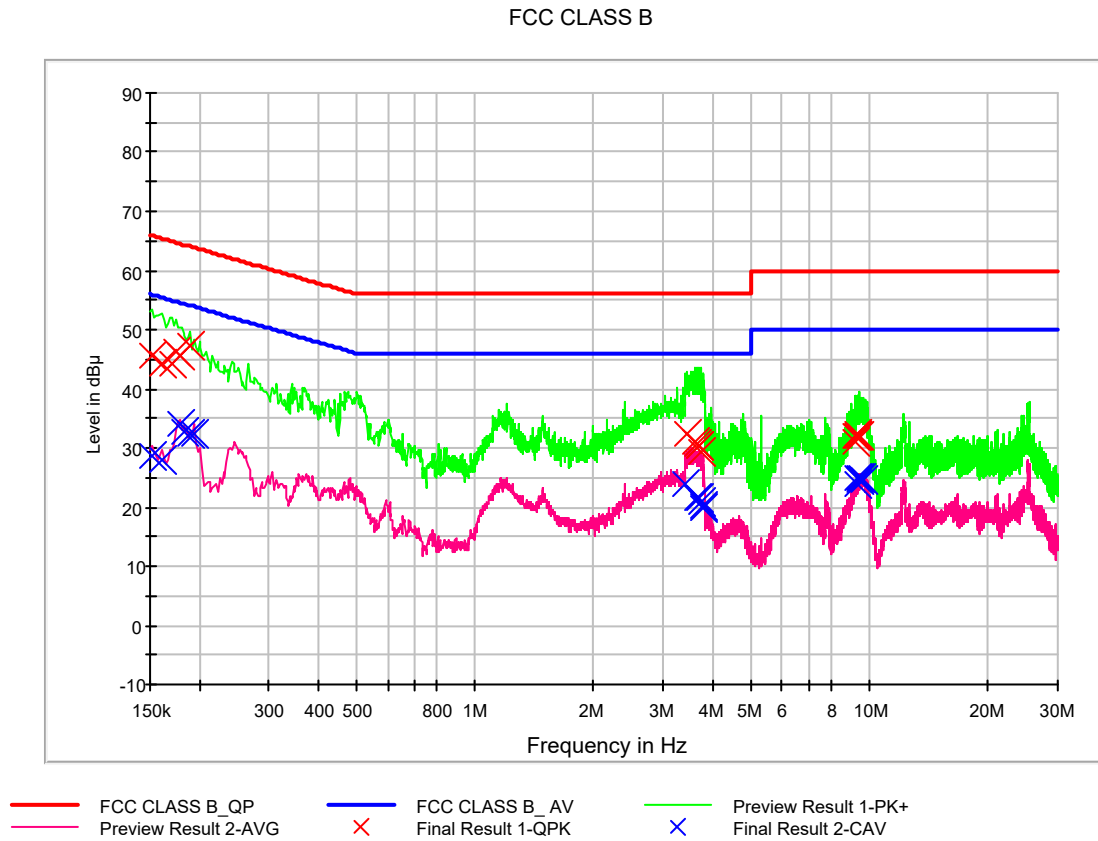
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	45.4	9.000	L1	9.6	20.6	66.0
0.158000	44.2	9.000	L1	9.6	21.4	65.6
0.166000	43.0	9.000	L1	9.6	22.2	65.2
0.170000	45.4	9.000	L1	9.6	19.6	65.0
0.174000	46.2	9.000	L1	9.6	18.5	64.8
0.180000	44.5	9.000	L1	9.6	20.0	64.5
1.162000	30.9	9.000	L1	9.7	25.1	56.0
4.620000	31.1	9.000	L1	9.8	24.9	56.0
4.632000	30.9	9.000	L1	9.8	25.1	56.0
4.678000	31.3	9.000	L1	9.8	24.7	56.0
4.740000	30.9	9.000	L1	9.8	25.1	56.0
4.770000	30.2	9.000	L1	9.8	25.8	56.0
9.290000	29.0	9.000	L1	10.0	31.0	60.0
9.518000	30.3	9.000	L1	10.0	29.7	60.0
9.604000	30.2	9.000	L1	10.0	29.8	60.0
9.668000	30.2	9.000	L1	10.0	29.8	60.0
9.730000	30.2	9.000	L1	10.0	29.8	60.0
9.758000	30.5	9.000	L1	10.0	29.5	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	29.5	9.000	L1	9.6	26.3	55.8
0.162000	28.3	9.000	L1	9.6	27.0	55.4
0.170000	32.3	9.000	L1	9.6	22.6	55.0
0.180000	33.7	9.000	L1	9.6	20.8	54.5
0.184000	31.4	9.000	L1	9.6	22.9	54.3
0.202000	26.3	9.000	L1	9.7	27.2	53.5
4.672000	21.4	9.000	L1	9.8	24.6	46.0
4.678000	21.1	9.000	L1	9.8	24.9	46.0
4.686000	21.2	9.000	L1	9.8	24.8	46.0
4.728000	21.3	9.000	L1	9.8	24.7	46.0
4.744000	20.9	9.000	L1	9.8	25.1	46.0
4.772000	18.8	9.000	L1	9.8	27.2	46.0
9.290000	21.4	9.000	L1	10.0	28.6	50.0
9.472000	22.0	9.000	L1	10.0	28.0	50.0
9.730000	22.6	9.000	L1	10.0	27.4	50.0
9.734000	22.8	9.000	L1	10.0	27.2	50.0
9.758000	22.8	9.000	L1	10.0	27.2	50.0
9.766000	22.8	9.000	L1	10.0	27.2	50.0

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



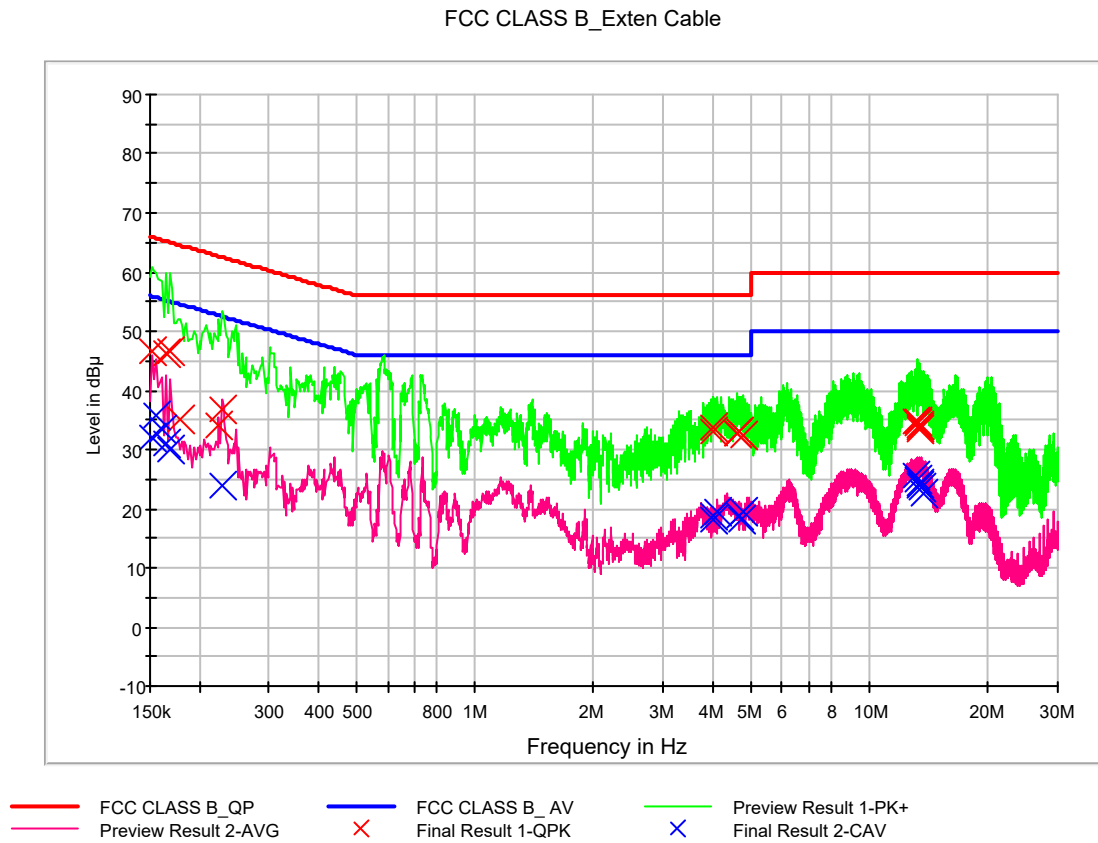
QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	45.7	9.000	N	9.6	20.2	65.9
0.160000	44.2	9.000	N	9.6	21.3	65.5
0.170000	44.3	9.000	N	9.6	20.7	65.0
0.174000	46.1	9.000	N	9.6	18.6	64.8
0.178000	45.7	9.000	N	9.6	18.9	64.6
0.190000	47.2	9.000	N	9.6	16.8	64.0
3.428000	32.3	9.000	N	9.8	23.7	56.0
3.610000	31.2	9.000	N	9.8	24.8	56.0
3.672000	30.6	9.000	N	9.8	25.4	56.0
3.678000	30.5	9.000	N	9.8	25.5	56.0
3.702000	30.4	9.000	N	9.8	25.6	56.0
3.736000	29.4	9.000	N	9.8	26.6	56.0
9.230000	31.0	9.000	N	9.9	29.0	60.0
9.254000	32.1	9.000	N	9.9	27.9	60.0
9.268000	31.9	9.000	N	9.9	28.1	60.0
9.322000	31.9	9.000	N	9.9	28.1	60.0
9.340000	32.5	9.000	N	9.9	27.5	60.0
9.396000	31.9	9.000	N	9.9	28.1	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	28.5	9.000	N	9.6	27.4	55.9
0.160000	28.1	9.000	N	9.6	27.3	55.5
0.178000	34.0	9.000	N	9.6	20.5	54.6
0.182000	32.8	9.000	N	9.6	21.5	54.4
0.190000	32.5	9.000	N	9.6	21.5	54.0
0.194000	32.2	9.000	N	9.6	21.6	53.9
3.406000	24.0	9.000	N	9.8	22.0	46.0
3.662000	21.4	9.000	N	9.8	24.6	46.0
3.678000	21.5	9.000	N	9.8	24.5	46.0
3.736000	20.8	9.000	N	9.8	25.2	46.0
3.774000	19.9	9.000	N	9.8	26.1	46.0
3.786000	20.3	9.000	N	9.8	25.7	46.0
9.322000	24.1	9.000	N	9.9	25.9	50.0
9.340000	24.8	9.000	N	9.9	25.2	50.0
9.374000	24.7	9.000	N	9.9	25.3	50.0
9.396000	24.8	9.000	N	9.9	25.2	50.0
9.588000	24.8	9.000	N	9.9	25.2	50.0
9.628000	24.7	9.000	N	9.9	25.3	50.0

**Figure 3: Conducted Emission, Rear Camera Preview +FM Radio (Low CH), Line (L1)**



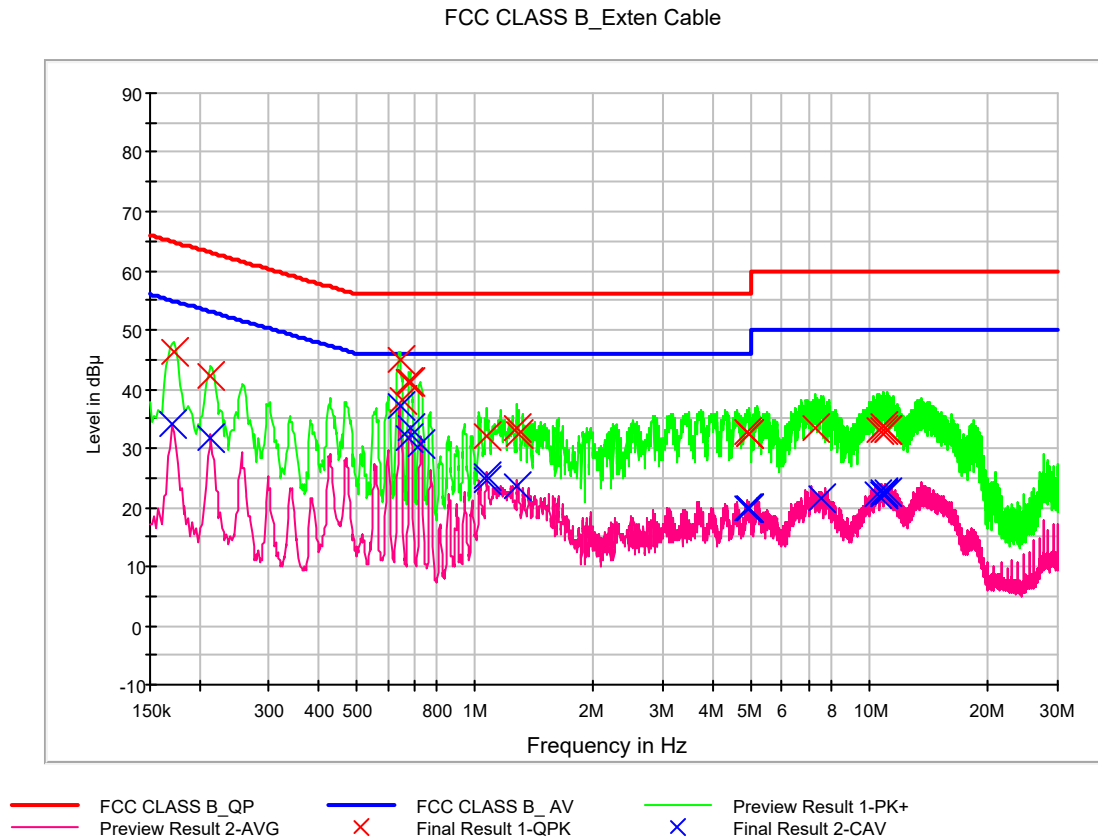
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	46.7	9.000	L1	9.7	19.2	65.9
0.164000	46.4	9.000	L1	9.7	18.9	65.3
0.168000	46.8	9.000	L1	9.7	18.3	65.1
0.178000	35.1	9.000	L1	9.7	29.5	64.6
0.224000	34.1	9.000	L1	9.7	28.6	62.7
0.228000	36.6	9.000	L1	9.7	25.9	62.5
4.002000	33.1	9.000	L1	10.0	22.9	56.0
4.018000	33.6	9.000	L1	10.0	22.4	56.0
4.594000	32.6	9.000	L1	10.0	23.4	56.0
4.612000	32.8	9.000	L1	10.0	23.2	56.0
4.688000	33.2	9.000	L1	10.0	22.8	56.0
4.762000	32.4	9.000	L1	10.0	23.6	56.0
13.120000	34.7	9.000	L1	10.3	25.3	60.0
13.234000	34.7	9.000	L1	10.3	25.3	60.0
13.304000	34.5	9.000	L1	10.3	25.5	60.0
13.350000	34.0	9.000	L1	10.4	26.0	60.0
13.370000	33.6	9.000	L1	10.4	26.4	60.0
13.374000	33.5	9.000	L1	10.4	26.5	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	32.0	9.000	L1	9.7	23.8	55.9
0.156000	35.7	9.000	L1	9.7	20.0	55.7
0.160000	33.3	9.000	L1	9.7	22.1	55.5
0.164000	31.0	9.000	L1	9.7	24.3	55.3
0.168000	30.0	9.000	L1	9.7	25.1	55.1
0.228000	24.0	9.000	L1	9.7	28.5	52.5
4.002000	18.7	9.000	L1	10.0	27.3	46.0
4.018000	18.3	9.000	L1	10.0	27.7	46.0
4.116000	19.6	9.000	L1	10.0	26.4	46.0
4.698000	18.7	9.000	L1	10.0	27.3	46.0
4.710000	18.0	9.000	L1	10.0	28.0	46.0
4.762000	19.4	9.000	L1	10.0	26.6	46.0
13.120000	25.6	9.000	L1	10.3	24.4	50.0
13.234000	25.0	9.000	L1	10.3	25.0	50.0
13.370000	24.2	9.000	L1	10.4	25.8	50.0
13.396000	23.9	9.000	L1	10.4	26.1	50.0
13.490000	23.5	9.000	L1	10.4	26.5	50.0
13.678000	22.4	9.000	L1	10.4	27.6	50.0

**Figure 4: Conducted Emission, Rear Camera Preview +FM Radio (Low CH), Line (N)**



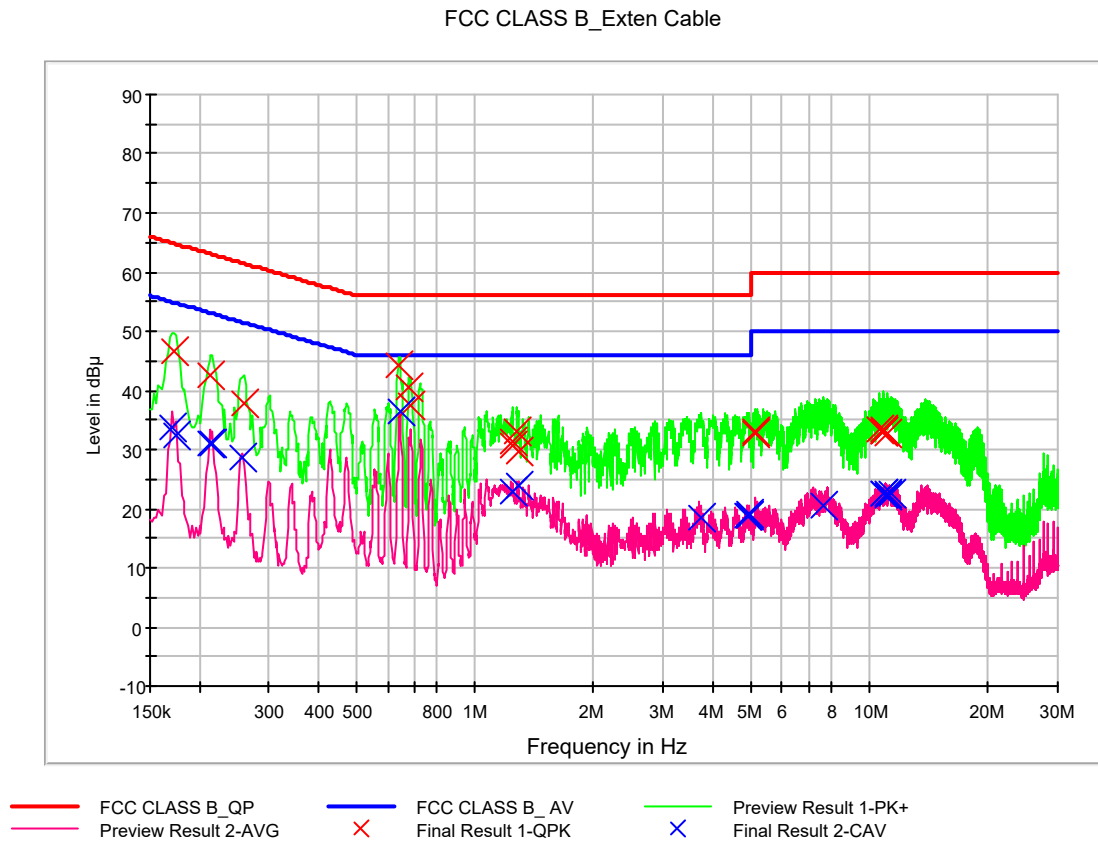
QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.172000	46.3	9.000	N	9.8	18.5	64.9
0.214000	42.3	9.000	N	9.9	20.7	63.0
0.644000	44.8	9.000	N	9.9	11.2	56.0
0.654000	38.1	9.000	N	9.9	17.9	56.0
0.682000	41.2	9.000	N	9.9	14.8	56.0
0.686000	41.2	9.000	N	9.9	14.8	56.0
1.074000	32.1	9.000	N	10.0	23.9	56.0
1.278000	33.4	9.000	N	10.0	22.6	56.0
1.288000	32.5	9.000	N	10.0	23.5	56.0
4.900000	32.6	9.000	N	10.2	23.4	56.0
4.940000	32.3	9.000	N	10.2	23.7	56.0
4.946000	32.3	9.000	N	10.2	23.7	56.0
7.312000	33.5	9.000	N	10.4	26.5	60.0
10.610000	33.1	9.000	N	10.5	26.9	60.0
10.872000	33.7	9.000	N	10.5	26.3	60.0
10.886000	33.2	9.000	N	10.5	26.8	60.0
11.104000	33.2	9.000	N	10.5	26.8	60.0
11.164000	32.9	9.000	N	10.5	27.1	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.170000	33.9	9.000	N	9.8	21.0	55.0
0.214000	31.6	9.000	N	9.9	21.4	53.0
0.644000	37.0	9.000	N	9.9	9.0	46.0
0.682000	31.5	9.000	N	9.9	14.5	46.0
0.686000	33.4	9.000	N	9.9	12.6	46.0
0.726000	30.7	9.000	N	9.9	15.3	46.0
1.070000	25.2	9.000	N	10.0	20.8	46.0
1.074000	24.5	9.000	N	10.0	21.5	46.0
1.278000	23.5	9.000	N	10.0	22.5	46.0
4.900000	19.8	9.000	N	10.2	26.2	46.0
4.942000	19.7	9.000	N	10.2	26.3	46.0
4.946000	19.8	9.000	N	10.2	26.2	46.0
7.576000	21.7	9.000	N	10.4	28.3	50.0
10.498000	22.1	9.000	N	10.5	27.9	50.0
10.830000	22.3	9.000	N	10.5	27.7	50.0
10.844000	22.1	9.000	N	10.5	27.9	50.0
10.872000	22.5	9.000	N	10.5	27.5	50.0
11.104000	22.5	9.000	N	10.5	27.5	50.0

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



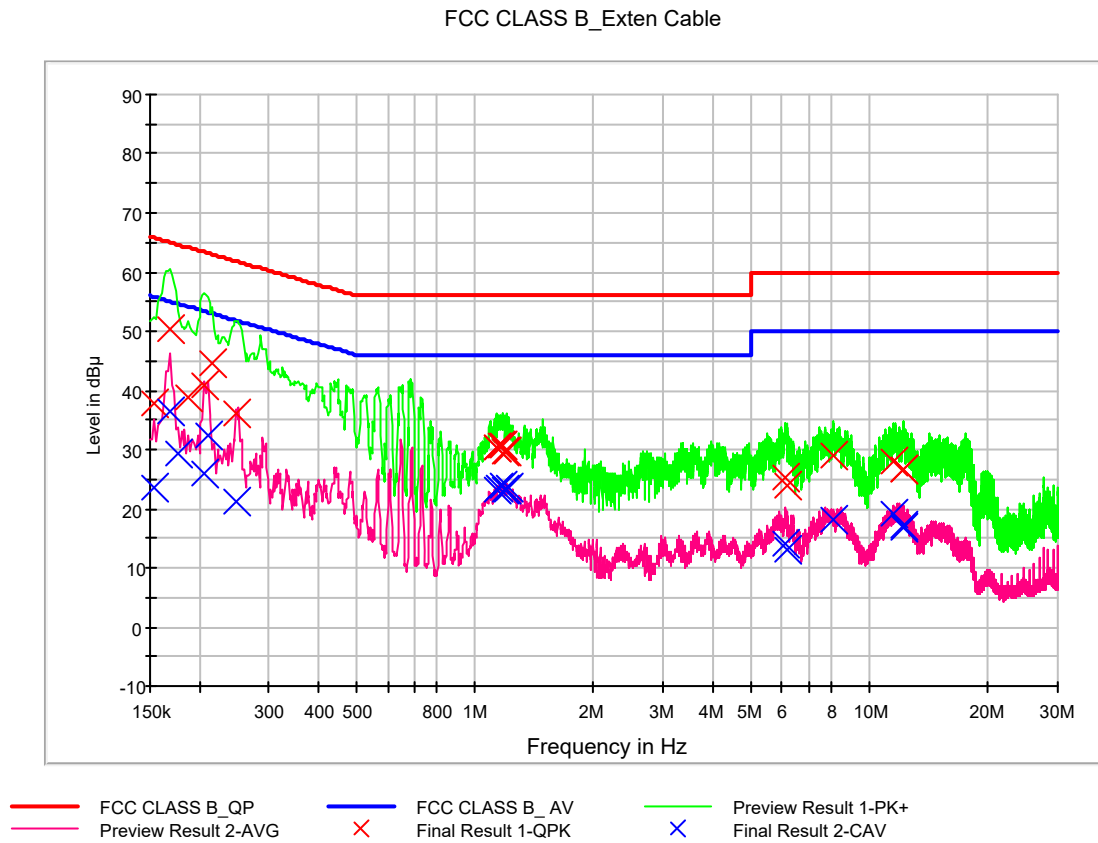
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.172000	46.7	9.000	L1	9.7	18.1	64.9
0.214000	42.7	9.000	L1	9.7	20.4	63.0
0.260000	37.9	9.000	L1	9.7	23.5	61.4
0.642000	44.2	9.000	L1	9.8	11.8	56.0
0.682000	40.5	9.000	L1	9.8	15.5	56.0
0.690000	37.4	9.000	L1	9.8	18.6	56.0
1.240000	31.2	9.000	L1	9.9	24.8	56.0
1.246000	30.6	9.000	L1	9.9	25.4	56.0
1.280000	33.0	9.000	L1	9.9	23.0	56.0
1.292000	29.6	9.000	L1	9.9	26.4	56.0
5.148000	32.7	9.000	L1	10.0	27.3	60.0
5.154000	33.1	9.000	L1	10.0	26.9	60.0
10.620000	33.3	9.000	L1	10.3	26.7	60.0
10.810000	33.3	9.000	L1	10.3	26.7	60.0
10.826000	33.2	9.000	L1	10.3	26.8	60.0
10.872000	33.2	9.000	L1	10.3	26.8	60.0
10.902000	32.9	9.000	L1	10.3	27.1	60.0
11.114000	32.9	9.000	L1	10.3	27.1	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.170000	33.9	9.000	L1	9.7	21.1	55.0
0.174000	32.2	9.000	L1	9.7	22.5	54.8
0.212000	30.9	9.000	L1	9.7	22.2	53.1
0.216000	31.2	9.000	L1	9.7	21.8	53.0
0.258000	28.5	9.000	L1	9.7	22.9	51.5
0.644000	36.4	9.000	L1	9.8	9.6	46.0
1.246000	22.8	9.000	L1	9.9	23.2	46.0
1.286000	23.9	9.000	L1	9.9	22.1	46.0
3.726000	18.4	9.000	L1	10.0	27.6	46.0
4.920000	18.7	9.000	L1	10.0	27.3	46.0
4.940000	19.1	9.000	L1	10.0	26.9	46.0
4.944000	19.0	9.000	L1	10.0	27.0	46.0
7.630000	20.6	9.000	L1	10.2	29.4	50.0
10.816000	22.4	9.000	L1	10.3	27.6	50.0
10.824000	22.4	9.000	L1	10.3	27.6	50.0
11.100000	22.3	9.000	L1	10.3	27.7	50.0
11.114000	22.4	9.000	L1	10.3	27.6	50.0
11.314000	22.4	9.000	L1	10.3	27.6	50.0

**Figure 6: Conducted Emission, Receiver (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)
0.154000	37.7	9.000	N	9.8	28.1	65.8
0.168000	50.2	9.000	N	9.8	14.8	65.1
0.188000	38.9	9.000	N	9.8	25.2	64.1
0.206000	40.8	9.000	N	9.9	22.6	63.4
0.216000	44.7	9.000	N	9.9	18.3	63.0
0.248000	36.1	9.000	N	9.9	25.7	61.8
1.130000	30.5	9.000	N	10.0	25.5	56.0
1.134000	30.4	9.000	N	10.0	25.6	56.0
1.158000	30.7	9.000	N	10.0	25.3	56.0
1.174000	30.8	9.000	N	10.0	25.2	56.0
1.184000	29.8	9.000	N	10.0	26.2	56.0
1.196000	29.6	9.000	N	10.0	26.4	56.0
6.122000	25.3	9.000	N	10.3	34.7	60.0
6.150000	23.8	9.000	N	10.3	36.2	60.0
8.086000	29.0	9.000	N	10.4	31.0	60.0
11.532000	28.0	9.000	N	10.5	32.0	60.0
12.204000	26.6	9.000	N	10.5	33.4	60.0
12.212000	26.7	9.000	N	10.5	33.3	60.0

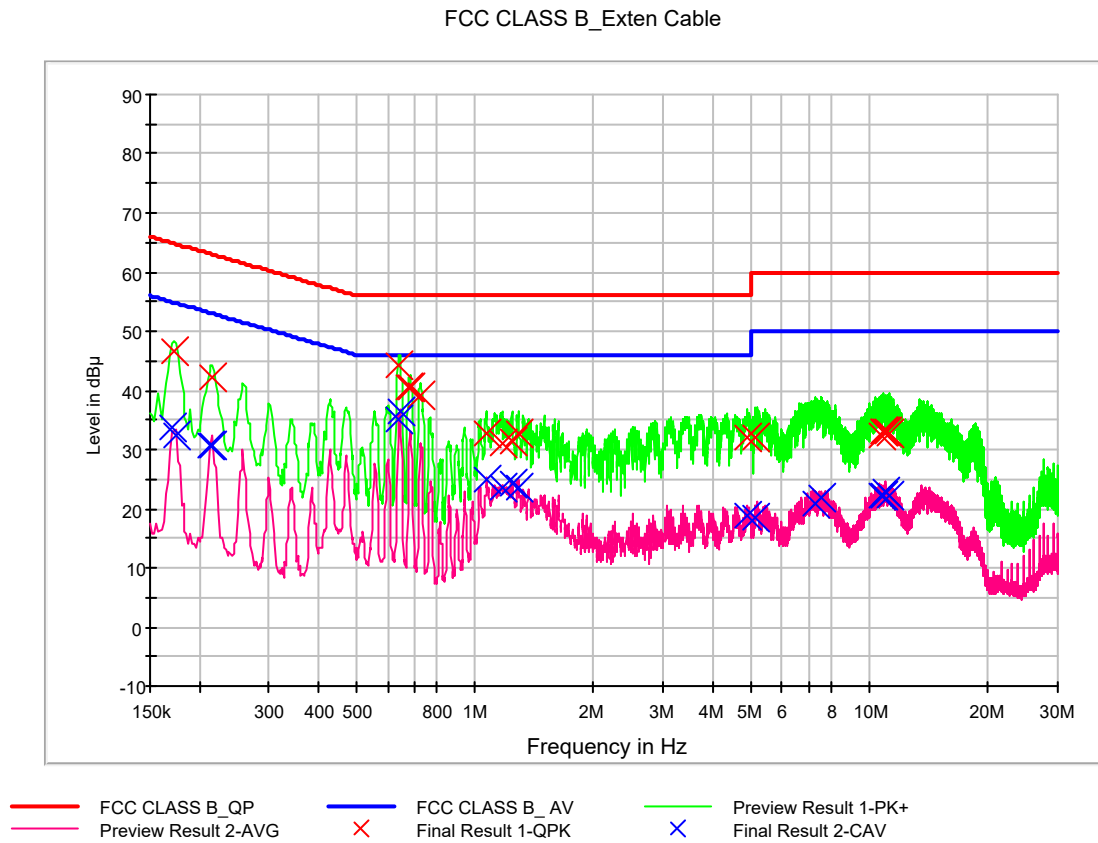


CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	23.6	9.000	N	9.8	32.2	55.8
0.168000	36.6	9.000	N	9.8	18.5	55.1
0.176000	29.3	9.000	N	9.8	25.4	54.7
0.206000	25.9	9.000	N	9.9	27.4	53.4
0.210000	32.4	9.000	N	9.9	20.8	53.2
0.248000	21.3	9.000	N	9.9	30.5	51.8
1.130000	23.2	9.000	N	10.0	22.8	46.0
1.152000	23.5	9.000	N	10.0	22.5	46.0
1.174000	23.9	9.000	N	10.0	22.1	46.0
1.184000	23.4	9.000	N	10.0	22.6	46.0
1.196000	23.3	9.000	N	10.0	22.7	46.0
1.214000	23.5	9.000	N	10.0	22.5	46.0
6.122000	14.2	9.000	N	10.3	35.8	50.0
6.150000	13.0	9.000	N	10.3	37.0	50.0
8.060000	18.1	9.000	N	10.4	31.9	50.0
11.532000	19.1	9.000	N	10.5	30.9	50.0
12.148000	16.8	9.000	N	10.5	33.2	50.0
12.204000	17.1	9.000	N	10.5	32.9	50.0



Figure 7: Conducted Emission, Receiver (LTE B12+B13+B17 High 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)
0.172000	46.5	9.000	L1	9.7	18.4	64.9
0.216000	42.1	9.000	L1	9.7	20.9	63.0
0.642000	44.3	9.000	L1	9.8	11.7	56.0
0.682000	40.5	9.000	L1	9.8	15.5	56.0
0.686000	40.6	9.000	L1	9.8	15.4	56.0
0.726000	39.1	9.000	L1	9.8	16.9	56.0
1.070000	32.8	9.000	L1	9.8	23.2	56.0
1.170000	30.9	9.000	L1	9.8	25.1	56.0
1.240000	31.5	9.000	L1	9.9	24.5	56.0
1.288000	32.8	9.000	L1	9.9	23.2	56.0
4.920000	32.0	9.000	L1	10.0	24.0	56.0
5.120000	32.0	9.000	L1	10.0	28.0	60.0
10.746000	32.5	9.000	L1	10.3	27.5	60.0
10.858000	33.2	9.000	L1	10.3	26.8	60.0
10.868000	33.2	9.000	L1	10.3	26.8	60.0
11.008000	32.9	9.000	L1	10.3	27.1	60.0
11.050000	33.1	9.000	L1	10.3	26.9	60.0
11.170000	32.7	9.000	L1	10.3	27.3	60.0

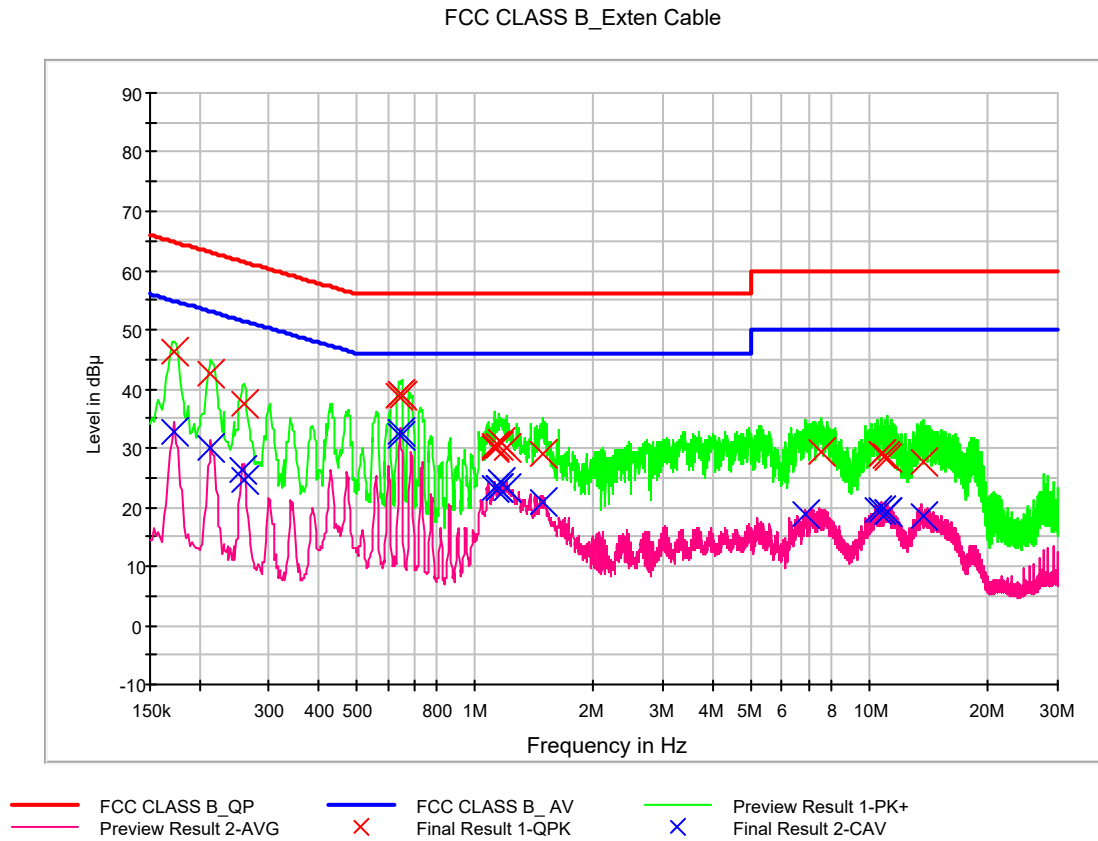


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.170000	33.8	9.000	L1	9.7	21.1	55.0
0.174000	32.2	9.000	L1	9.7	22.6	54.8
0.212000	30.8	9.000	L1	9.7	22.3	53.1
0.216000	30.7	9.000	L1	9.7	22.3	53.0
0.640000	35.1	9.000	L1	9.8	10.9	46.0
0.644000	36.4	9.000	L1	9.8	9.6	46.0
1.070000	25.0	9.000	L1	9.8	21.0	46.0
1.170000	23.5	9.000	L1	9.8	22.5	46.0
1.240000	24.2	9.000	L1	9.9	21.8	46.0
1.288000	23.7	9.000	L1	9.9	22.3	46.0
4.920000	18.8	9.000	L1	10.0	27.2	46.0
5.120000	18.6	9.000	L1	10.0	31.4	50.0
7.314000	20.8	9.000	L1	10.1	29.2	50.0
7.530000	21.7	9.000	L1	10.1	28.3	50.0
10.746000	22.4	9.000	L1	10.3	27.6	50.0
10.858000	22.3	9.000	L1	10.3	27.8	50.0
11.018000	22.8	9.000	L1	10.3	27.2	50.0
11.170000	22.2	9.000	L1	10.3	27.8	50.0



Figure 8: Conducted Emission, Receiver (LTE B12+B13+B17 High 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)
0.172000	46.3	9.000	N	9.8	18.6	64.9
0.214000	42.5	9.000	N	9.9	20.6	63.0
0.260000	37.6	9.000	N	9.9	23.8	61.4
0.642000	38.9	9.000	N	9.9	17.1	56.0
0.648000	39.3	9.000	N	9.9	16.7	56.0
0.652000	38.9	9.000	N	9.9	17.1	56.0
1.122000	30.1	9.000	N	10.0	25.9	56.0
1.126000	30.4	9.000	N	10.0	25.6	56.0
1.148000	30.2	9.000	N	10.0	25.8	56.0
1.166000	31.2	9.000	N	10.0	24.8	56.0
1.206000	29.9	9.000	N	10.0	26.1	56.0
1.484000	28.9	9.000	N	10.1	27.1	56.0
7.554000	29.3	9.000	N	10.4	30.7	60.0
10.668000	29.1	9.000	N	10.5	30.9	60.0
10.718000	28.9	9.000	N	10.5	31.1	60.0
10.972000	28.6	9.000	N	10.5	31.4	60.0
11.056000	28.3	9.000	N	10.5	31.7	60.0
13.648000	27.5	9.000	N	10.6	32.5	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.172000	32.9	9.000	N	9.8	22.0	54.9
0.214000	30.1	9.000	N	9.9	22.9	53.0
0.256000	26.4	9.000	N	9.9	25.2	51.6
0.260000	24.4	9.000	N	9.9	27.0	51.4
0.644000	32.2	9.000	N	9.9	13.8	46.0
0.648000	32.7	9.000	N	9.9	13.3	46.0
1.126000	23.4	9.000	N	10.0	22.6	46.0
1.148000	23.2	9.000	N	10.0	22.8	46.0
1.154000	23.2	9.000	N	10.0	22.8	46.0
1.166000	24.1	9.000	N	10.0	21.9	46.0
1.208000	23.2	9.000	N	10.0	22.8	46.0
1.484000	20.8	9.000	N	10.1	25.2	46.0
6.892000	18.8	9.000	N	10.3	31.2	50.0
10.428000	19.4	9.000	N	10.5	30.6	50.0
10.668000	19.4	9.000	N	10.5	30.6	50.0
11.056000	19.1	9.000	N	10.5	30.9	50.0
11.070000	19.1	9.000	N	10.5	30.9	50.0
13.648000	18.4	9.000	N	10.6	31.6	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 Rear Camera Preview +FM Radio (Low CH) Receiver (LTE B5 High CH Idle) + Rear Camera Recording Receiver (LTE B12+B13+B17 High CH Idle) + Front Camera Recording
Kind of Test Site	3 m semi anechoic chamber
Temperature	21.8 / 20.4 °C
Relative Humidity	40.9 / 40.1 %
Test Date	February 12 / February 13, 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)
64.439200	27.1	291.9	H	165.0	18.9	12.9	40.0
79.696000	28.0	325.2	H	322.0	15.9	12.0	40.0
83.252800	31.2	225.2	H	301.0	15.4	8.8	40.0
266.544000	32.6	125.0	H	131.0	19.4	13.4	46.0
275.942400	32.7	100.0	H	319.0	19.7	13.3	46.0
600.920000	39.4	275.0	V	147.0	27.4	6.6	46.0

Rear Camera Preview +FM Radio (Low CH)

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
61.823200	23.3	291.8	V	62.0	19.3	16.7	40.0
86.461600	31.8	225.1	H	0.0	14.9	8.2	40.0
92.411200	30.9	174.8	H	148.0	14.6	12.1	43.5
95.320800	27.7	192.8	H	137.0	14.9	15.8	43.5
141.851200	24.5	174.9	H	202.0	19.8	19.0	43.5
789.741600	30.2	208.8	H	217.0	30.1	15.8	46.0

Receiver (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)
59.601600	24.1	99.8	V	233.0	19.6	15.9	40.0
83.891200	25.4	125.2	V	201.0	15.3	14.6	40.0
84.809600	27.5	191.7	H	135.0	15.1	12.5	40.0
90.298400	29.2	225.0	H	132.0	14.4	13.3	43.5
96.845600	24.3	174.8	H	1.0	15.1	19.2	43.5
131.975200	22.0	174.8	H	8.0	18.9	21.5	43.5


Receiver (LTE B12+B13+B17 High CH Idle) + Front Camera Recording

Frequency (MHz)	Quasi Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
63.040800	22.9	274.9	H	129.0	19.1	17.1	40.0
83.349600	26.6	291.9	H	171.0	15.3	13.4	40.0
84.580800	29.3	225.0	H	336.0	15.2	10.7	40.0
86.362400	25.6	225.1	H	335.0	14.9	14.4	40.0
90.276000	29.2	225.0	H	131.0	14.4	14.3	43.5
138.568800	22.5	125.0	H	8.0	19.6	21.0	43.5



-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	2 690 MHz
Tested Frequency Range	1 GHz to 18 GHz
Worst Case of Operating Mode	Data Communication Rear Camera Preview +FM Radio (Low CH) Receiver (LTE B5 High CH Idle) + Rear Camera Recording Receiver (LTE B12+B13+B17 High CH Idle) + Front Camera Recording
Kind of Test Site	3 m semi anechoic chamber
Temperature	20.3 °C
Relative Humidity	40.2 %
Test Date	February 08, 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)
1399.960000	48.7	212.8	V	210.0	-28.2	25.3	74.0
1994.840000	50.6	100.0	V	64.0	-26.7	23.4	74.0
2660.815000	48.4	100.0	V	0.0	-24.2	25.6	74.0
4481.350000	41.6	117.9	V	13.0	-19.6	32.4	74.0
5990.230000	43.3	100.0	V	119.0	-17.1	30.7	74.0
9492.075000	44.4	227.8	V	90.0	-10.1	29.6	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1399.960000	47.4	212.8	V	210.0	-28.2	6.6	54.0
1994.840000	23.1	100.0	V	64.0	-26.7	30.9	54.0
2660.815000	21.4	100.0	V	0.0	-24.2	32.6	54.0
4481.350000	26.2	117.9	V	13.0	-19.6	27.8	54.0
5990.230000	27.0	100.0	V	119.0	-17.1	27.0	54.0
9492.075000	31.6	227.8	V	90.0	-10.1	22.4	54.0

Rear Camera Preview +FM Radio (Low CH)

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3019.020000	34.1	188.4	V	143.0	-22.8	39.9	74.0
6331.090000	38.8	299.4	H	52.0	-15.7	35.2	74.0
8104.400000	43.9	231.4	V	170.0	-12.4	30.1	74.0
10600.185000	46.0	150.0	V	283.0	-6.9	28.0	74.0
11643.920000	44.9	100.0	V	255.0	-5.0	29.1	74.0
14787.865000	47.2	100.0	V	88.0	-1.4	26.8	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3019.020000	21.1	188.4	V	143.0	-22.8	32.9	54.0
6331.090000	26.3	299.4	H	52.0	-15.7	27.7	54.0
8104.400000	29.5	231.4	V	170.0	-12.4	24.5	54.0
10600.185000	32.9	150.0	V	283.0	-6.9	21.1	54.0
11643.920000	32.1	100.0	V	255.0	-5.0	21.9	54.0
14787.865000	34.0	100.0	V	88.0	-1.4	20.0	54.0



Receiver (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)
5501.655000	36.3	248.5	H	217.0	-17.8	37.7	74.0
7459.925000	41.3	199.4	V	324.0	-12.8	32.7	74.0
9793.000000	43.9	290.4	V	309.0	-9.6	30.1	74.0
11019.405000	45.9	349.9	V	164.0	-5.6	28.1	74.0
14405.720000	46.6	249.9	V	224.0	-1.9	27.4	74.0
17983.564900	53.3	203.4	H	0.0	7.7	20.7	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
5501.655000	23.7	248.5	H	217.0	-17.8	30.3	54.0
7459.925000	28.3	199.4	V	324.0	-12.8	25.7	54.0
9793.000000	30.8	290.4	V	309.0	-9.6	23.2	54.0
11019.405000	32.8	349.9	V	164.0	-5.6	21.2	54.0
14405.720000	34.1	249.9	V	224.0	-1.9	19.9	54.0
17983.564900	40.5	203.4	H	0.0	7.7	13.5	54.0

Receiver (LTE B12+B13+B17 High 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)
3057.970000	33.9	100.0	V	170.0	-22.7	40.1	74.0
5568.865000	36.7	100.0	V	135.0	-17.7	37.3	74.0
7462.695000	41.1	150.0	H	53.0	-12.8	32.9	74.0
9868.605000	43.3	150.0	V	76.0	-9.5	30.7	74.0
11277.705000	46.2	199.6	V	225.0	-5.1	27.8	74.0
14752.430000	47.0	150.0	H	137.0	-1.4	27.0	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
3057.970000	21.1	100.0	V	170.0	-22.7	32.9	54.0
5568.865000	23.9	100.0	V	135.0	-17.7	30.1	54.0
7462.695000	28.4	150.0	H	53.0	-12.8	25.6	54.0
9868.605000	30.8	150.0	V	76.0	-9.5	23.2	54.0
11277.705000	32.9	199.6	V	225.0	-5.1	21.1	54.0
14752.430000	34.0	150.0	H	137.0	-1.4	20.0	54.0



6. CONCLUSION

The data collected shows that the **EUT Type: Mobile Phone, FCC ID: A3LSMM205M, Model: SM-M205M/DS** complies with §15.107 and §15.109 of the FCC rules.



7. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A