

EMI TEST REPORT

FCC CERTIFICATION

Applicant:
SAMSUNG Electronics Co., Ltd.
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Date of Receipt: October 25, 2016
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Test Report No. HCT-E-1611-F001
HCT FRN: 0005866421

FCC ID :

A3LSMA320Y

Rule Part(s) / Standard(s): FCC CFR 47 PART 15 Subpart B Class B
FCC Classification: JBP (Part 15 B – Class B Computing Device Peripheral)
EUT Type: Mobile Phone
Model Name: SM-A320Y/DS
Test Port: Micro USB / Earphone Port
Date of Test: October 28, 2016 - October 31, 2016

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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DOCUMENT HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1611-F001	November 01, 2016	Initial Release



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ATTACHMENT: TEST SETUP PHOTOGRAPHS



1. GENERAL INFORMATION

1.1 Description of EUT

Its basic purpose is used for communications.

FCC ID	A3LSMA320Y
Model	SM-A320Y/DS
EUT Type	Mobile Phone
TX Frequency	824.20 MHz to 848.80 MHz (GSM 850) 1 850.20 MHz to 1 909.80 MHz (GSM 1 900) 1 852.4 MHz to 1 907.6 MHz (WCDMA B2) 1712.4 MHz to 1752.6 MHz (WCDMA B4) 826.40 MHz to 846.60 MHz (WCDMA B5) 1 850 MHz to 1 910 MHz (LTE B2) 1 710 MHz to 1 755 MHz (LTE B4) 824 MHz to 849 MHz (LTE B5) 704 MHz to 716 MHz (LTE B17) 2 496 MHz to 2 690 MHz (LTE B41) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 460 MHz (WiFi 2.4 GHz band) 5 180 MHz to 5 240 MHz (WiFi 5 GHz band_ UNII 1) 5 260 MHz to 5 320 MHz (WiFi 5 GHz band_ UNII 2A) 5 500 MHz to 5 720 MHz (WiFi 5 GHz band_ UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz band_ UNII 3(DTS)) 13.56 MHz (NFC) 2 402 MHz to 2 480 MHz (ANT+)
RX Frequency	869.20 MHz to 893.80 MHz (GSM 850) 1 930.20 MHz to 1 989.80 MHz (GSM 1 900) 1 932.4 MHz to 1 987.6 MHz (WCDMA B2) 2 112.4 MHz to 2 152.6 MHz (WCDMA B4) 871.40 MHz to 891.60 MHz (WCDMA B5) 1 930 MHz to 1 990 MHz (LTE B2) 2 110 MHz to 2 155 MHz (LTE B4) 869 MHz to 894 MHz (LTE B5) 734 MHz to 746 MHz (LTE B17) 2 496 MHz to 2 690 MHz (LTE B41) 2 402 MHz to 2 480 MHz (Bluetooth) 2 412 MHz to 2 460 MHz (WiFi 2.4 GHz band) 5 180 MHz to 5 240 MHz (WiFi 5 GHz band_ UNII 1) 5 260 MHz to 5 320 MHz (WiFi 5 GHz band_ UNII 2A) 5 500 MHz to 5 720 MHz (WiFi 5 GHz band_ UNII 2C) 5 745 MHz to 5 825 MHz (WiFi 5 GHz band_ UNII 3(DTS)) 13.56 MHz (NFC) 2 402 MHz to 2 480 MHz (ANT+)

1.2 Related Submittal(s) / Grant(s)

Original submittal only.



1.3 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.

Measurement Facilities	Registration Number
Radiated Field strength measurement facility (3 m)	90661 (July 07, 2015)
Radiated Field strength measurement facility (10 m)	90661 (July 07, 2015)

1.4 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 equipments, which is traceable to recognized national standards.

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



1.5 Tested System Details

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

Device Type	Model Name	Manufacturer	FCC ID / DoC	Connected To
EUT	SM-A320Y/DS	SAMSUNG	A3LSMA320Y	Notebook PC, Earphone
USB cable	EP-DN930CWE	KSD	-	EUT, Notebook PC
Earphone	EHS64AVFWE	CRESYN	-	EUT, Notebook PC
Notebook PC	ProBook6560b	HP	DoC	EUT, Notebook PC adaptor, RJ45 cable, Serial mouse
Notebook PC adaptor	Series PPP009L-E	LITE-ON TECHNOLOGY	-	Notebook PC
Gateway	TL-WR747N	TP-LINK	-	RJ45 cable, Gateway adaptor
Gateway adaptor	T120150-2H1	TP-LINK	-	Gateway
Serial mouse	Serial 2 button mouse	Radio shack	FSUGMZE3	Notebook PC
RJ45 cable	-	-	-	Notebook PC, Gateway
SD card	MB-SD320	SAMSUNG	-	EUT



1.6 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	Micro USB	Y	Y	(P,D)1.0
	Earphone	N/A	Y	(D)1.15
Notebook PC	RJ 45	N/A	N	(D)2.5
	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.

1.7 Noise Suppression Parts on Cable. (I/O Cable)

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



2. 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)	$\pm 1.82 \text{ dB } (k = 2)$
Radiated Emissions (30 MHz to 1 GHz)	$\pm 5.06 \text{ dB } (k = 2)$
Radiated Emissions (1 GHz to 6 GHz)	$\pm 5.0 \text{ dB } (k = 2)$
Radiated Emissions (6 GHz to 18 GHz)	$\pm 5.4 \text{ dB } (k = 2)$



3. DESCRIPTION OF TEST

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

- 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.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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.
- 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.
- 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

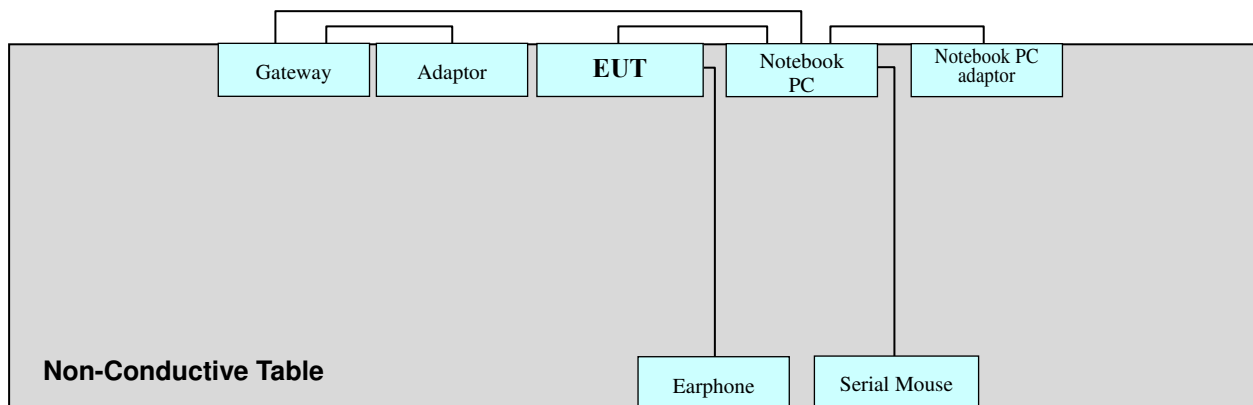


3.2.1 Frequency Range of Radiated Measurements

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



Power Line: 120 VAC, 60 Hz



4. PRELIMINARY TEST

4.1 Conducted Emission Test

It was tested Charging mode, after connecting all peripheral devices.

Operation Mode: ☒ Data Communication mode

4. 2 Radiated Emission Test

It was tested Charging mode, after connecting all peripheral devices.

Operation Mode: ☒ Data Communication mode



5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

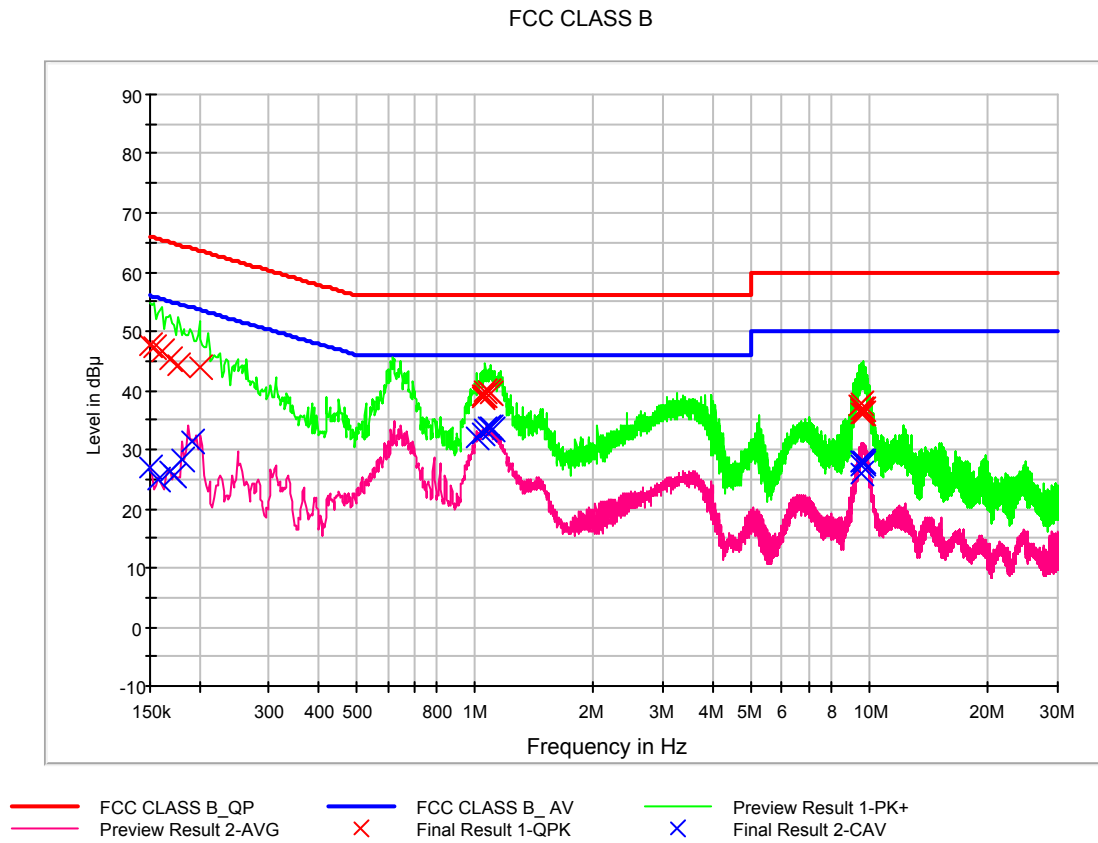
5.1 Conducted Emission Test

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

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
Kind of Test Site	Shielded Room
Temperature	22.6 °C
Relative Humidity	33.7 %
Test Date	October 31, 2016

- 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: Spectral Diagrams, Conducted Emission, AC Main Port, Line (L1)**



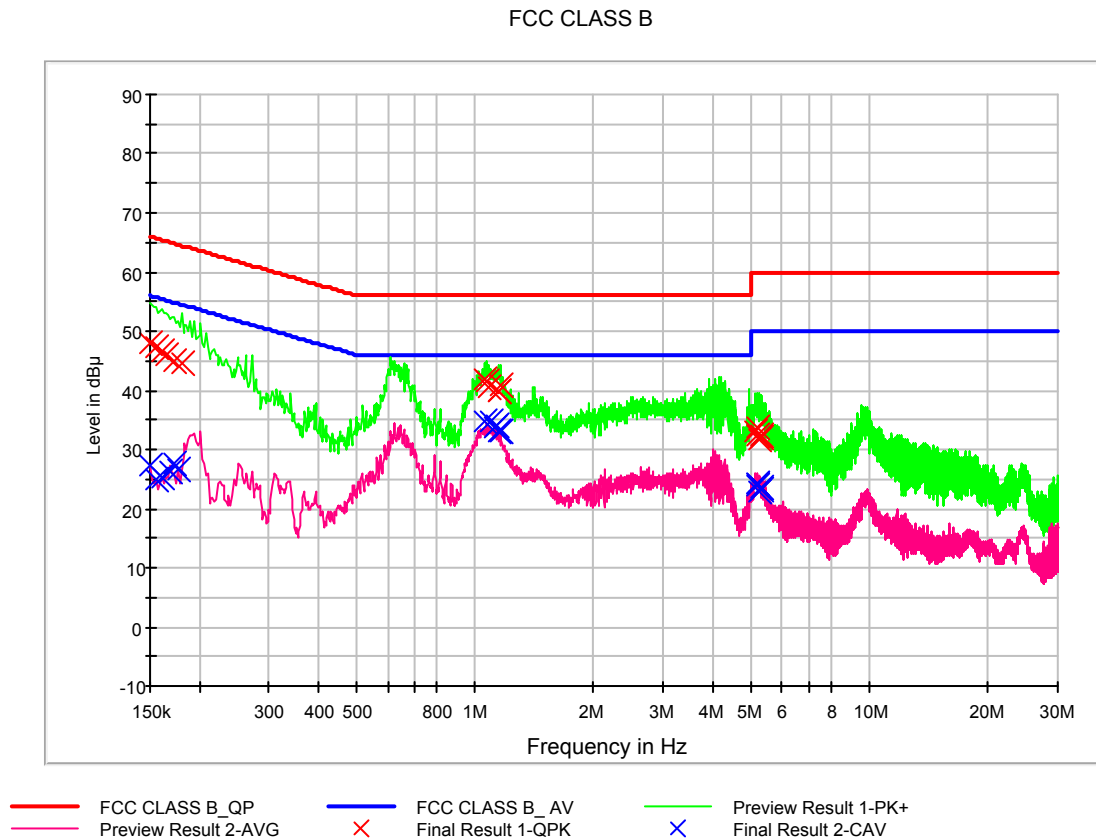
QuasiPeak Final Result, Line (L1)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	47.5	9.000	L1	9.7	18.5	66.0
0.154000	47.3	9.000	L1	9.7	18.5	65.8
0.160000	46.5	9.000	L1	9.7	18.9	65.5
0.168000	45.3	9.000	L1	9.7	19.8	65.1
0.176000	44.3	9.000	L1	9.7	20.4	64.7
0.200000	43.7	9.000	L1	9.7	19.9	63.6
1.040000	39.1	9.000	L1	9.8	16.9	56.0
1.050000	38.7	9.000	L1	9.8	17.3	56.0
1.058000	39.2	9.000	L1	9.8	16.8	56.0
1.062000	39.7	9.000	L1	9.8	16.3	56.0
1.078000	39.8	9.000	L1	9.8	16.2	56.0
1.092000	39.6	9.000	L1	9.8	16.4	56.0
9.398000	37.6	9.000	L1	10.1	22.4	60.0
9.528000	37.7	9.000	L1	10.1	22.3	60.0
9.556000	36.3	9.000	L1	10.1	23.7	60.0
9.586000	36.6	9.000	L1	10.1	23.4	60.0
9.624000	36.1	9.000	L1	10.1	23.9	60.0
9.634000	36.7	9.000	L1	10.1	23.3	60.0



CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	26.9	9.000	L1	9.7	29.1	56.0
0.158000	24.8	9.000	L1	9.7	30.7	55.6
0.168000	26.1	9.000	L1	9.7	28.9	55.1
0.172000	25.5	9.000	L1	9.7	29.4	54.9
0.180000	28.4	9.000	L1	9.7	26.0	54.5
0.192000	31.2	9.000	L1	9.7	22.8	53.9
1.012000	32.2	9.000	L1	9.8	13.8	46.0
1.050000	32.9	9.000	L1	9.8	13.1	46.0
1.060000	33.2	9.000	L1	9.8	12.8	46.0
1.078000	33.8	9.000	L1	9.8	12.2	46.0
1.100000	33.6	9.000	L1	9.8	12.4	46.0
1.112000	33.3	9.000	L1	9.8	12.7	46.0
9.534000	26.0	9.000	L1	10.1	24.0	50.0
9.582000	27.9	9.000	L1	10.1	22.1	50.0
9.586000	27.8	9.000	L1	10.1	22.2	50.0
9.590000	27.3	9.000	L1	10.1	22.7	50.0
9.612000	27.9	9.000	L1	10.1	22.1	50.0
9.662000	27.7	9.000	L1	10.1	22.3	50.0

**Figure 2: Spectral Diagrams, Conducted Emission, AC Main Port, Line (N)**



QuasiPeak Final Result, Line (N)

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	48.0	9.000	N	9.7	18.0	66.0
0.156000	47.3	9.000	N	9.7	18.4	65.7
0.160000	46.7	9.000	N	9.7	18.8	65.5
0.164000	45.9	9.000	N	9.7	19.3	65.3
0.172000	44.9	9.000	N	9.7	19.9	64.9
0.180000	44.6	9.000	N	9.7	19.9	64.5
1.060000	41.9	9.000	N	9.7	14.1	56.0
1.070000	41.4	9.000	N	9.7	14.6	56.0
1.084000	40.3	9.000	N	9.7	15.7	56.0
1.142000	39.8	9.000	N	9.7	16.2	56.0
1.150000	39.8	9.000	N	9.7	16.2	56.0
1.158000	40.7	9.000	N	9.7	15.3	56.0
5.160000	33.0	9.000	N	9.9	27.0	60.0
5.186000	33.6	9.000	N	9.9	26.4	60.0
5.202000	32.5	9.000	N	9.9	27.5	60.0
5.278000	31.8	9.000	N	9.9	28.2	60.0
5.292000	32.2	9.000	N	9.9	27.8	60.0
5.300000	32.1	9.000	N	9.9	27.9	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	27.4	9.000	N	9.7	28.6	56.0
0.156000	25.1	9.000	N	9.7	30.6	55.7
0.160000	25.1	9.000	N	9.7	30.3	55.5
0.168000	26.4	9.000	N	9.7	28.6	55.1
0.172000	27.6	9.000	N	9.7	27.3	54.9
0.176000	26.5	9.000	N	9.7	28.2	54.7
1.062000	34.8	9.000	N	9.7	11.2	46.0
1.094000	34.7	9.000	N	9.7	11.3	46.0
1.128000	33.8	9.000	N	9.7	12.2	46.0
1.140000	33.9	9.000	N	9.7	12.1	46.0
1.148000	33.2	9.000	N	9.7	12.8	46.0
1.164000	33.1	9.000	N	9.7	12.9	46.0
5.176000	24.1	9.000	N	9.9	25.9	50.0
5.186000	24.4	9.000	N	9.9	25.6	50.0
5.202000	23.9	9.000	N	9.9	26.1	50.0
5.256000	22.9	9.000	N	9.9	27.1	50.0
5.292000	23.1	9.000	N	9.9	26.9	50.0
5.300000	23.6	9.000	N	9.9	26.4	50.0



5.2 Radiated Emission Test

The test results of radiated emission provide the following information:

-For Measurement Below 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak
Bandwidth	120 kHz (6 dB)
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.6 °C
Relative Humidity	44.7 %
Test Date	October 28, 2016

Frequency (MHz)	Quasi Peak (dBuV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
54.096000	35.5	115.0	V	87.0	22.8	4.5	40.0
54.112000	36.1	100.0	V	149.0	22.8	3.9	40.0
58.808000	32.3	350.0	H	4.0	22.5	7.7	40.0
82.300000	30.2	250.0	H	100.0	18.5	9.8	40.0
199.888000	29.1	125.0	H	325.0	20.0	14.4	43.5
667.352000	32.1	350.0	H	179.0	31.9	13.9	46.0

- 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



-For Measurement Above 1 GHz

Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz) CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz)
Highest Operating Frequency	5 825 MHz
Upper Frequency of Measurement Range	1 GHz to 29.125 GHz
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	22.6 °C
Relative Humidity	44.7 %
Test Date	October 28, 2016

Frequency (MHz)	Peak (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.590000	41.5	363.0	V	205.0	-13.0	32.5	74.0
1399.955000	47.6	339.5	V	39.0	-12.8	26.4	74.0
1827.975000	44.2	362.8	V	191.0	-12.3	29.8	74.0
2078.015000	49.5	100.0	V	207.0	-11.8	24.5	74.0
2590.585000	42.4	342.6	V	219.0	-9.3	31.6	74.0
2662.850000	46.8	362.9	V	151.0	-9.1	27.2	74.0

Frequency (MHz)	CAverage (dBμV/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.590000	24.2	363.0	V	205.0	-13.0	29.8	54.0
1399.955000	46.0	339.5	V	39.0	-12.8	8.0	54.0
1827.975000	28.1	362.8	V	191.0	-12.3	25.9	54.0
2078.015000	33.1	100.0	V	207.0	-11.8	20.9	54.0
2590.585000	25.0	342.6	V	219.0	-9.3	29.0	54.0
2662.850000	27.3	362.9	V	151.0	-9.1	26.7	54.0

- 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



6. 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	12.28.2015
☒ LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	06.09.2016
☒ LISN	Rohde & Schwarz	ENV216	100073	1 year	12.28.2015
☒ Software	Rohde & Schwarz	EMC32	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
☐ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	03.30.2016
☐ EMI Test Receiver	Rohde & Schwarz	ESIB26	100298	1 year	02.11.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100514	1 year	10.10.2016
☒ Trilog Antenna	Schwarzbeck	VULB9168	255	2 year	04.15.2015
☒ 6dB Attenuator	HP	8491A	24257	2 year	04.15.2015
☒ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒ Turn Table	EMCO	1060-2M	-	N/A	-
☒ Turn Table controller	EMCO	2090	9702-1224	N/A	-
☐ EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	05.27.2016
☐ Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32	-	-	-
-For measurement above 1 GHz					
☐ EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	03.30.2016
☐ EMI Test Receiver	Rohde & Schwarz	ESIB26	100298	1 year	02.11.2016
☒ EMI Test Receiver	Rohde & Schwarz	ESU40	100514	1 year	10.10.2016
☐ Antenna master	HD GmbH	MA240	240/520	N/A	-
☐ Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
☒ Antenna master	INNCO Systems	MA4000-XP-ET	48709515	N/A	-
☒ Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515	N/A	-
☒ Turn Table	EMCO	1060-2M	-	N/A	-
☒ Turn Table controller	EMCO	2090	9702-1224	N/A	-
☐ Power Amplifier	CERNEX	CBLU1183540	21691	1 year	07.04.2016
☒ Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.07.2016
☒ Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
☒ Power Amplifier	CERNEX	CBL18265035	22966	1 year	07.11.2016
☒ Power Amplifier	CERNEX	CBL26405040	19660	1 year	07.15.2016
☒ Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170541	2 year	09.03.2015
☐ Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	08.25.2016
☐ EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	05.27.2016
☐ Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
☒ Software	Rohde & Schwarz	EMC32	-	-	-



7. CONCLUSION

The data collected shows that the **EUT Type: Mobile Phone, Model: SM-A320Y/DS, FCC ID: A3LSMA320Y** complies with §15.107 and §15.109 of the FCC rules.