

EMI TEST REPORT FCC CERTIFICATION

Applicant:

SAMSUNG Electronics Co., Ltd.

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Test Report No. HCT-E-1707-F035

HCT FRN: 0005866421

FCC ID :

A3LSMR140L

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: Bluetooth Headset
Model Name: SM-R140
Date of Test: July 21, 2017 – July 26, 2017

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



Wook Yi
Test Engineer
EMC Team
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REVISION HISTORY

The revision history for this document is shown in table.

Version	Date	Description
HCT-E-1707-F035	July 27, 2017	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	A3LSMR140L
Model	SM-R140
EUT Type	Bluetooth Headset
Frequency	2 402 MHz to 2 480 MHz (Bluetooth) TX/RX

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 Semi Anechoic chamber	90661 (July 07, 2015)
Radiated Field strength measurement facility 10 m Semi Anechoic chamber	

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	Serial Number	Manufacturer	FCC ID / DoC
EUT	SM-R140	-	SAMSUNG	A3LSMR140L
Cradle	EB-PR140	-	SAMSUNG	-
Battery	CP1454A3	-	VARTA	-
Data cable	EP-DN930CWE	-	CRESYN	-
Notebook PC	ProBook6560b	5CB2053MXF	HP	-
Notebook PC adaptor	PPP009D	WBGSV0BDD 1VLC	Delta Electronics	-
Gateway	TL-WR747N	-	TP Link	-
Gateway adaptor	T120150-2H1	-	TP Link	-
Serial mouse	Serial 2 Button mouse	02031069	Radio Shack	FSUGMZE3



1.6 Cable Description

Product Name	Port	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (m)
EUT	5 PIN	N	N/A	-
Cradle	USB C type	Y	Y	(P, D) 1.2
Gateway	DC IN	N	N/A	(P) 1.5
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

* 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	5 PIN	N	N/A	N	N/A
Cradle	USB C type	N	N/A	Y	Both end
Gateway	DC IN	N	N/A	Y	Gateway end
Notebook PC	RJ 45	Y	Both end	N	N/A
	Serial(Mouse)	N	N/A	N	N/A
	DC IN	N	N/A	Y	Notebook 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)	1.82 dB ($k = 2$)
Radiated Emissions (30 MHz to 1 GHz)	5.20 dB ($k = 2$)
Radiated Emissions (1 GHz to 18 GHz)	5.24 dB ($k = 2$)
Radiated Emissions (18 GHz to 40 GHz)	5.40 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

- 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

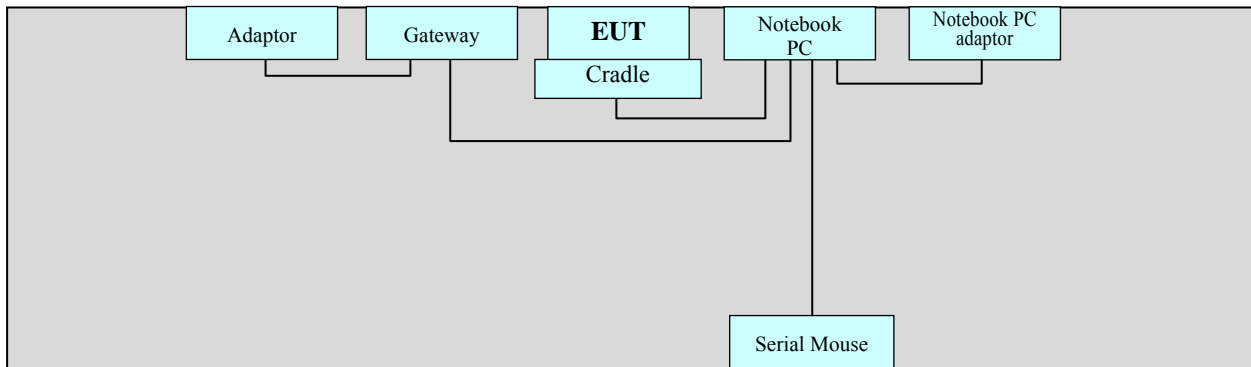


3.2.1 Frequency Range of Radiated Measurements

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

4.1 Conducted Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: Charging & DATA Mode (LEFT)

4. 2 Radiated Emission Test

It was tested Data Communication mode, after connecting all peripheral devices.

Operation Mode: Charging & DATA Mode (LEFT)



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:

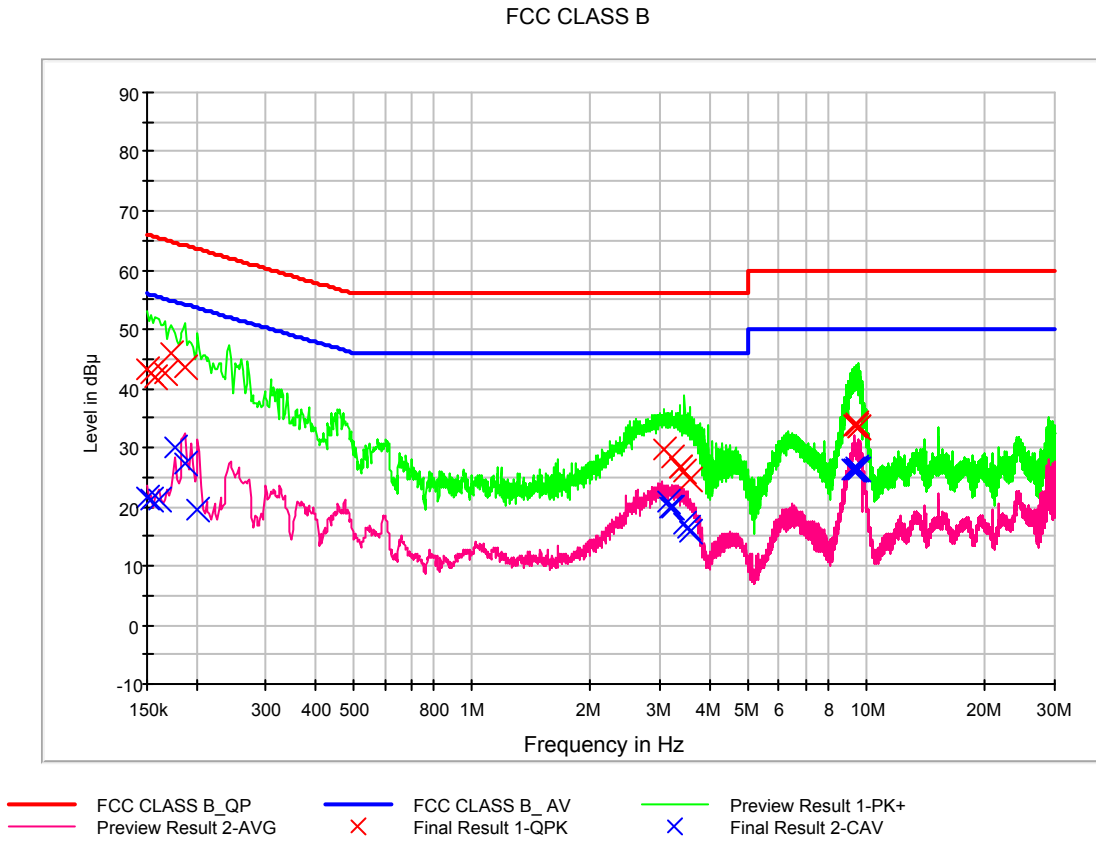
Rule Part / Standard	FCC PART 15 Subpart B Class B
Detector	Quasi-Peak, CISPR-Average
Bandwidth	9 kHz (6 dB)
Operation Mode	Data Communication mode
Kind of Test Site	Shielded Room
Temperature	24.2 °C
Relative Humidity	53.4 %
Test Date	July 25, 2017

- 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, 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	43.4	9.000	L1	9.6	22.6	66.0
0.154000	42.6	9.000	L1	9.6	23.2	65.8
0.158000	41.8	9.000	L1	9.6	23.7	65.6
0.166000	42.4	9.000	L1	9.6	22.7	65.2
0.172000	46.1	9.000	L1	9.6	18.8	64.9
0.188000	43.7	9.000	L1	9.6	20.4	64.1
3.066000	29.6	9.000	L1	9.8	26.4	56.0
3.204000	28.3	9.000	L1	9.8	27.7	56.0
3.366000	26.5	9.000	L1	9.8	29.5	56.0
3.372000	26.8	9.000	L1	9.8	29.2	56.0
3.466000	25.8	9.000	L1	9.8	30.2	56.0
3.580000	24.5	9.000	L1	9.8	31.5	56.0
9.290000	33.9	9.000	L1	10.1	26.1	60.0
9.310000	33.8	9.000	L1	10.1	26.2	60.0
9.378000	33.8	9.000	L1	10.1	26.2	60.0
9.474000	33.9	9.000	L1	10.1	26.1	60.0
9.498000	33.4	9.000	L1	10.1	26.6	60.0
9.508000	33.5	9.000	L1	10.1	26.5	60.0

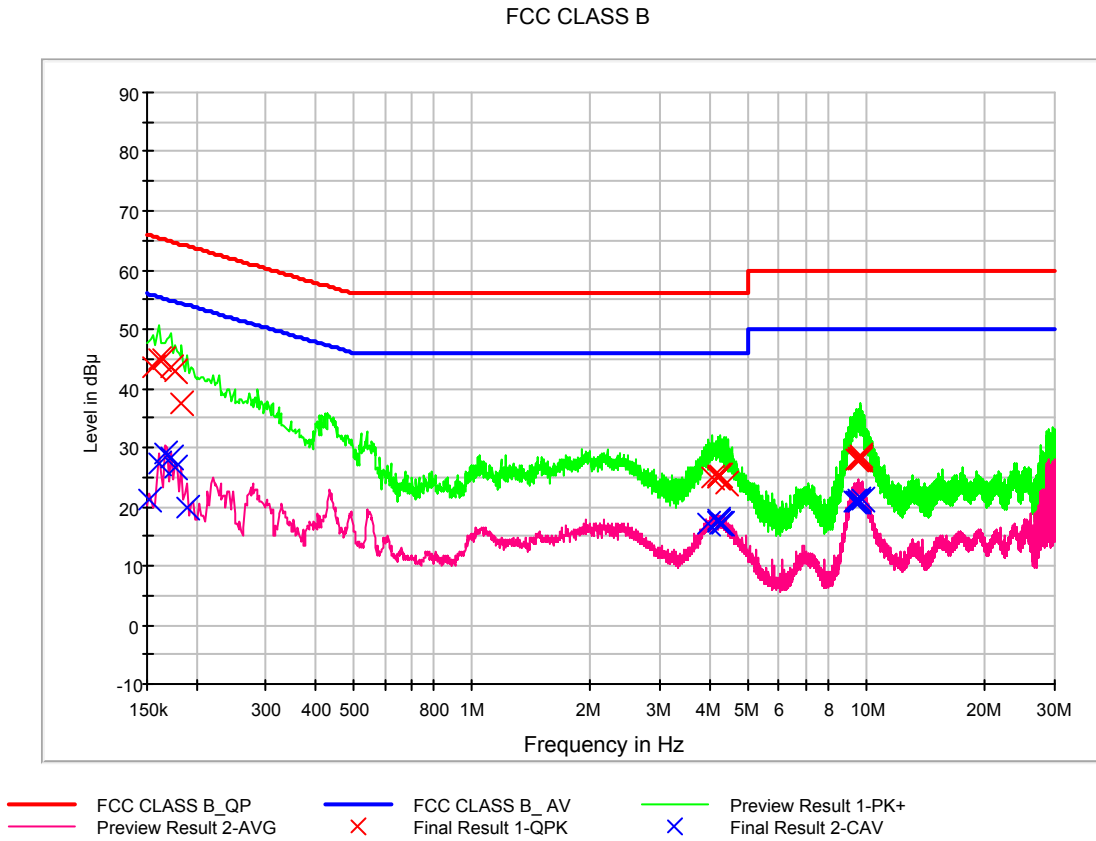


CAverage Final Result, Line (L1)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	21.7	9.000	L1	9.6	34.3	56.0
0.154000	21.1	9.000	L1	9.6	34.7	55.8
0.160000	21.0	9.000	L1	9.6	34.4	55.5
0.176000	29.8	9.000	L1	9.6	24.8	54.7
0.188000	27.2	9.000	L1	9.6	27.0	54.1
0.202000	19.5	9.000	L1	9.6	34.0	53.5
3.128000	20.7	9.000	L1	9.8	25.3	46.0
3.166000	20.0	9.000	L1	9.8	26.0	46.0
3.204000	19.9	9.000	L1	9.8	26.1	46.0
3.466000	17.3	9.000	L1	9.8	28.7	46.0
3.530000	16.4	9.000	L1	9.8	29.6	46.0
3.580000	15.9	9.000	L1	9.8	30.1	46.0
9.218000	26.4	9.000	L1	10.1	23.6	50.0
9.290000	26.4	9.000	L1	10.1	23.6	50.0
9.332000	26.3	9.000	L1	10.1	23.7	50.0
9.378000	26.6	9.000	L1	10.1	23.4	50.0
9.452000	26.4	9.000	L1	10.1	23.6	50.0
9.508000	26.2	9.000	L1	10.1	23.8	50.0



Figure 2: 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)
0.156000	43.6	9.000	N	9.6	22.1	65.7
0.160000	44.9	9.000	N	9.6	20.6	65.5
0.164000	44.8	9.000	N	9.6	20.4	65.3
0.172000	43.6	9.000	N	9.6	21.2	64.9
0.176000	42.8	9.000	N	9.6	21.9	64.7
0.184000	37.5	9.000	N	9.6	26.8	64.3
4.066000	24.9	9.000	N	9.8	31.1	56.0
4.186000	24.8	9.000	N	9.8	31.2	56.0
4.192000	24.9	9.000	N	9.8	31.1	56.0
4.198000	25.2	9.000	N	9.8	30.8	56.0
4.266000	25.2	9.000	N	9.9	30.8	56.0
4.422000	24.0	9.000	N	9.9	32.0	56.0
9.470000	28.0	9.000	N	10.1	32.0	60.0
9.492000	28.0	9.000	N	10.1	32.0	60.0
9.560000	28.4	9.000	N	10.1	31.6	60.0
9.602000	28.5	9.000	N	10.1	31.5	60.0
9.608000	28.3	9.000	N	10.1	31.7	60.0
9.648000	28.1	9.000	N	10.1	31.9	60.0



CAverage Final Result, Line (N)

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	21.3	9.000	N	9.6	34.6	55.9
0.160000	27.2	9.000	N	9.6	28.2	55.5
0.166000	29.0	9.000	N	9.6	26.1	55.2
0.172000	28.3	9.000	N	9.6	26.5	54.9
0.176000	26.7	9.000	N	9.6	28.0	54.7
0.190000	19.9	9.000	N	9.6	34.1	54.0
3.988000	17.2	9.000	N	9.8	28.8	46.0
4.192000	17.3	9.000	N	9.8	28.7	46.0
4.198000	17.6	9.000	N	9.8	28.4	46.0
4.204000	17.7	9.000	N	9.9	28.3	46.0
4.278000	17.1	9.000	N	9.9	28.9	46.0
4.326000	17.0	9.000	N	9.9	29.0	46.0
9.366000	20.7	9.000	N	10.1	29.3	50.0
9.470000	20.8	9.000	N	10.1	29.2	50.0
9.492000	21.0	9.000	N	10.1	29.0	50.0
9.560000	21.0	9.000	N	10.1	29.0	50.0
9.564000	21.0	9.000	N	10.1	29.0	50.0
9.766000	21.1	9.000	N	10.1	28.9	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	23.2 °C
Relative Humidity	52.7 %
Test Date	July 26, 2017

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)
39.528800	29.7	100.0	V	200.0	22.6	10.3	40.0
51.032000	29.6	100.0	V	32.0	23.3	10.4	40.0
100.700000	31.0	184.0	H	308.0	18.8	12.5	43.5
124.994400	32.9	100.0	V	203.0	21.5	10.6	43.5
266.579200	34.7	125.0	H	129.0	22.8	11.3	46.0
500.015200	38.3	100.0	H	1.0	28.9	7.7	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: 3 MHz)
Highest Operating Frequency	2.48 GHz
Upper Frequency of Measurement Range	1 GHz to 12.4 GHz
Operation Mode	Data Communication mode
Kind of Test Site	3 m semi anechoic chamber
Temperature	23.2 °C
Relative Humidity	51.1 %
Test Date	July 21, 2017

Frequency (MHz)	Peak (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1400.115000	47.9	399.9	H	316.0	-12.9	26.1	74.0
2062.575000	44.7	110.4	V	37.0	-11.5	29.3	74.0
2662.360000	44.2	137.7	V	197.0	-9.4	29.8	74.0
2998.835000	41.8	109.4	V	36.0	-8.7	32.2	74.0
4489.020000	42.3	99.9	V	338.0	-5.4	31.7	74.0
8173.930000	46.0	137.5	V	51.0	4.3	28.0	74.0

Frequency (MHz)	CAverage (dB μ V/m)	Antenna Height (cm)	POL. (H/V)	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
1400.115000	46.3	399.9	H	316.0	-12.9	7.7	54.0
2062.575000	22.7	110.4	V	37.0	-11.5	31.3	54.0
2662.360000	23.3	137.7	V	197.0	-9.4	30.7	54.0
2998.835000	26.2	109.4	V	36.0	-8.7	27.8	54.0
4489.020000	27.3	99.9	V	338.0	-5.4	26.7	54.0
8173.930000	33.0	137.5	V	51.0	4.3	21.0	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

Type	Manufacturer	Model Name	Serial Number	Calibration Cycle	CAL Date
<u>Conducted Emission</u>					
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESCI	100584	1 year	12.23.2016
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ENV216	100073	1 year	12.23.2016
<input checked="" type="checkbox"/> LISN	Rohde & Schwarz	ESH3-Z5	100282	1 year	05.22.2017
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER 8.54.0	-	-	-
<u>Radiated Emission</u>					
-For measurement below 1 GHz					
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	11.04.2016
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	04.05.2017
<input checked="" type="checkbox"/> Trilog Antenna	Schwarzbeck	VULB9168	760	2 year	04.06.2017
<input checked="" type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	05.16.2017
<input type="checkbox"/> Antenna master	INNCO Systems	MA4000-EP	MA4000/283	N/A	-
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER 8.40.0	-	-	-
-For measurement above 1 GHz					
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESI40	831564103	1 year	11.04.2016
<input checked="" type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU40	100524	1 year	04.05.2017
<input type="checkbox"/> Antenna master	HD GmbH	MA240	240/520	N/A	-
<input type="checkbox"/> Antenna master controller	HD GmbH	HD 100	100/637	N/A	-
<input checked="" type="checkbox"/> Antenna master	INNCO Systems	MA4000-XP-ET	48709515	N/A	-
<input checked="" type="checkbox"/> Antenna master controller	INNCO Systems	CO 3000	CO 3000/870/ 35990515/L	N/A	-
<input checked="" type="checkbox"/> Turn Table	EMCO	1060-2M	-	N/A	-
<input checked="" type="checkbox"/> Power Amplifier	CERNEX	CBLU5183530	24348	1 year	06.01.2017
<input checked="" type="checkbox"/> Turn Table controller	EMCO	2090	9702-1224	N/A	-
<input type="checkbox"/> Power Amplifier	CERNEX	CBLU1183540	21691	1 year	06.28.2017
<input checked="" type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	296	2 year	10.12.2016
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170541	2 year	09.03.2015
<input type="checkbox"/> Power Amplifier	CERNEX	CBL18265035	21873	1 year	01.19.2017
<input type="checkbox"/> Power Amplifier	CERNEX	CBL26405040	19660	1 year	07.11.2017
<input type="checkbox"/> Horn Antenna	Schwarzbeck	BBHA 9120D	1300	2 year	08.25.2016
<input type="checkbox"/> EMI Test Receiver	Rohde & Schwarz	ESU 26	100241	1 year	05.16.2017
<input type="checkbox"/> Turn Table	INNCO Systems	DT3000-3T	DT3000/69	N/A	-
<input checked="" type="checkbox"/> Software	Rohde & Schwarz	EMC32 VER 8.40.0	-	-	-



7. CONCLUSION

The data collected shows that the **EUT Type: Bluetooth Headset Model: SM-R140, FCC ID: A3LSMR140L** complies with §15.107 and §15.109 of the FCC rules.