



EMC Test Data

Client:	Kinsa Inc.	Job Number:	PR093745
Model:	KSA-110	T-Log Number:	TL093745-EMC
Contact:	David Gal	Project Manager:	Christine Krebill
Standard:	EN 60601-1-2 Ed.4, EN 301-489, FCC §15.247, RSS-247	Project Coordinator:	David Bare
		Class:	N/A

SAR Exclusion

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 2/11/2019

Test Engineer: David Bare

General Test Configuration

MPE Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

SAR Exclusion calculation uses the formula for FCC KDB 447498:

$$[(\text{max. power in mW}) / (\text{min. test separation distance in mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0$$

Summary of Results

Device complies with SAR exclusion at 5mm separation:	Yes
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Deviations From The Standard

No deviations were made from the requirements of the standard.

FCC SAR Exclusion Calculation

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
2402	4.9	3.1	0	-4.1	4.9	1.20	5.0	0.96	3.0
2440	4.7	3.0	0	-4.1	4.7	1.15	5.0	0.92	3.0
2480	-0.5	0.9	0	-4.1	-0.5	0.35	5.0	0.28	3.0

Industry Canada SAR Exclusion Calculation (Highest of output power or EIRP)

Freq. MHz	EUT Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	Maximum Power or EIRP	SAR Exclusion Limit (mW)
2402	4.9	3.1	0	-4.1	4.9	1.20	5.0	3.09	4 mW
2440	4.7	3.0	0	-4.1	4.7	1.15	5.0	2.95	4 mW
2480	-0.5	0.9	0	-4.1	-0.5	0.35	5.0	0.89	4 mW