

APPENDIX E: SENSOR TRIGGERING DATA

FCC ID: A3LSHVE230L	 PCTEST ENGINEERING LABORATORY, INC.	SAR EVALUATION REPORT		Reviewed by: Quality Manager
Test Dates: 10/23/12 - 11/06/12	DUT Type: Portable Tablet			Page E1 of E3

A3LSHVE230L Sensor Triggering Data Summary

Per FCC Draft KDB Publication 616217, this device was tested by the manufacturer to determine the proximity sensor triggering distances for the back and top edge of the device. The measured output power within ± 5 mm of the triggering points (or until touching the phantom) is included for back side and each applicable edge.

To ensure all production units are compliant it is necessary to test SAR at a distance 1mm less than the smallest distance from the device and SAR phantom (determined from these triggering tests according to the KDB 616217 draft) with the device at maximum output power without power reduction. These additional SAR Tests are included additionally to the SAR tests for the device touching the SAR phantom, with reduced power.

Back Side

Moving device toward the phantom:

KDB 616217 V.A-9 Measured Power[dBm]											
Distance[mm]	17	16	15	14	13	12	11	10	9	8	7
GSM1900	29.51	29.52	29.51	29.52	29.51	22.64	22.63	22.64	22.61	22.63	22.63
GPRS1900 1Tx	29.53	29.52	29.52	29.51	29.52	22.63	22.64	22.62	22.62	22.63	22.62
GPRS1900 2Tx	27.02	27.04	27.05	27.04	27.03	21.16	21.17	21.15	21.13	21.15	21.12
GPRS1900 3Tx	25.04	25.04	25.02	25.01	25.05	19.54	19.53	19.55	19.53	19.54	19.53
GPRS1900 4Tx	24.03	24.03	24.02	24.03	24.04	18.53	18.54	18.53	18.55	18.52	18.53
WCDMA1900	22.51	22.51	22.52	22.53	22.51	13.35	13.37	13.35	13.36	13.35	13.34

Moving device away from the phantom:

KDB 616217 V.A-9 Measured Power[dBm]											
Distance[mm]	17	16	15	14	13	12	11	10	9	8	7
GSM1900	29.51	29.52	29.51	29.52	29.51	22.64	22.63	22.64	22.61	22.63	22.63
GPRS1900 1Tx	29.53	29.52	29.52	29.51	29.52	22.63	22.64	22.62	22.62	22.63	22.62
GPRS1900 2Tx	27.02	27.04	27.05	27.04	27.03	21.16	21.17	21.15	21.13	21.15	21.12
GPRS1900 3Tx	25.04	25.04	25.02	25.01	25.05	19.54	19.53	19.55	19.53	19.54	19.53
GPRS1900 4Tx	24.03	24.03	24.02	24.03	24.04	18.53	18.54	18.53	18.55	18.52	18.53
WCDMA1900	22.51	22.51	22.52	22.53	22.51	13.35	13.37	13.35	13.36	13.35	13.34

Based on the most conservative measured triggering distance of 12 mm, additional SAR measurements were required at 11 mm from the back side.

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Top Edge

Moving device toward the phantom:

KDB 616217 V.A-9 Measured Power[dBm]											
Distance[mm]	15	14	13	12	11	10	9	8	7	6	5
GSM1900	29.53	29.53	29.51	29.52	29.53	22.63	22.64	22.64	22.63	22.63	22.62
GPRS1900 1Tx	29.52	29.53	29.52	29.52	29.54	22.64	22.64	22.63	22.62	22.64	22.62
GPRS1900 2Tx	27.04	27.05	27.06	27.04	27.03	21.17	21.16	21.15	21.14	21.15	21.13
GPRS1900 3Tx	25.03	25.04	25.03	25.02	25.05	19.54	19.55	19.55	19.53	19.54	19.54
GPRS1900 4Tx	24.03	24.03	24.04	24.02	24.04	18.55	18.54	18.53	18.55	18.54	18.52
WCDMA1900	22.53	22.52	22.52	22.53	22.54	13.36	13.37	13.36	13.36	13.37	13.34

Moving device away from the phantom:

KDB 616217 V.A-9 Measured Power[dBm]											
Distance[mm]	15	14	13	12	11	10	9	8	7	6	5
GSM1900	29.53	29.53	29.51	29.52	29.53	22.63	22.64	22.64	22.63	22.63	22.66
GPRS1900 1Tx	29.52	29.53	29.52	29.52	29.54	22.64	22.64	22.63	22.62	22.64	22.65
GPRS1900 2Tx	27.04	27.05	27.06	27.04	27.03	21.17	21.16	21.15	21.14	21.15	21.16
GPRS1900 3Tx	25.03	25.04	25.03	25.02	25.05	19.54	19.55	19.55	19.53	19.54	19.53
GPRS1900 4Tx	24.03	24.03	24.04	24.02	24.04	18.55	18.54	18.53	18.55	18.54	18.55
WCDMA1900	22.53	22.52	22.52	22.53	22.54	13.36	13.37	13.36	13.36	13.37	13.37

Based on the most conservative measured triggering distance of 10 mm, additional SAR measurements were required at 9 mm from the top edge.

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