

SAR EVALUATION REPORT

IEEE Std 1528-2013

For BLUETOOTH HEADSET

FCC ID: AL8-V4240T Model Name: V4240T

Report Number: 13144555-S1V2 Issue Date: 3/11/2020

Prepared for PLANTRONICS INC. 345 ENCINAL ST. SANTA CRUZ. CA 95060, UNITED STATES

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Date	Revisions	Revised By
V1	3/6/2020	Initial Issue	
V2	3/11/2020	Updated section 9 to include BLE power	Dave Weaver

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1. Attestation of Test Results

Applicant Name	Plantronics Inc			
FCC ID	AL8-V4240T			
Model Name	V4240T			
Applicable Standards	Published RF exposure KDB procedures IEEE Std 1528-2013			
	SAR Limi	SAR Limits (W/Kg)		
Exposure Category	Peak spatial-average (1g of tissue)	Extremities (hands, wrists, ankles, etc.) (10g of tissue)		
General population / Uncontrolled exposure	1.6 4			
	Equipment Class - Highest Reported SAR (W/kg)			
RF Exposure Conditions	DSS			
Head	0.526			
Simultaneous TX	N/A			
Date Tested	2/25/2020 to 2/25/2020			
Test Results	Pass			

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

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Approved & Released By:	Prepared By:		
Att.	Fre		
Dave Weaver	Remi Rodberg		
Operations Leader	Laboratory Technician		
UL Verification Services Inc.	UL Verification Services Inc.		

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2013, ANSI C63.10, ANSI C63.26, the following FCC Published RF exposure <u>KDB</u> procedures:

- o 447498 D01 General RF Exposure Guidance v06
- o 65664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02

In addition to the above, the following information was used:

- <u>TCB workshop</u> October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- o <u>TCB workshop</u> October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- o TCB workshop May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- Interim Procedures)
- o <u>TCB workshop</u> April 2019; RF Exposure Procedures (Tissue Simulating Liquids (TSL))

3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

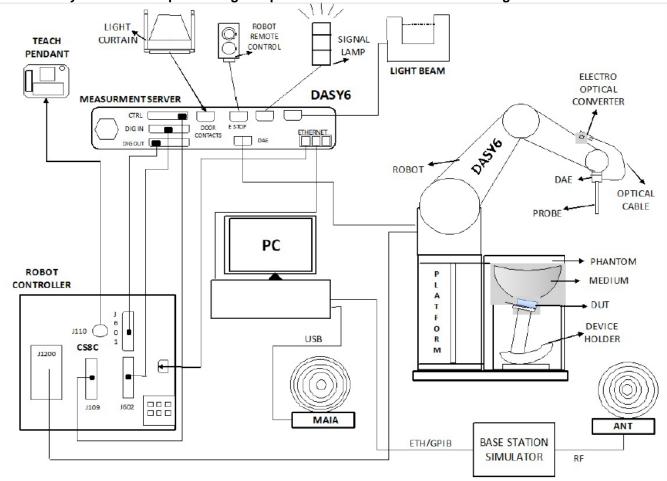
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	SAR Lab 6
SAR Lab G	SAR Lab 7
SAR Lab H	SAR Lab 8

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE Standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

	\leq 3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
Maximum probe angle from probe axis to phantom surface normal at the measurement location			
	\leq 2 GHz: \leq 15 mm 2 - 3 GHz: \leq 12 mm	$\begin{array}{l} 3-4 \ \mathrm{GHz:} \leq 12 \ \mathrm{mm} \\ 4-6 \ \mathrm{GHz:} \leq 10 \ \mathrm{mm} \end{array}$	
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.		

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from	1 KDB 865664 D01 SAR	Measurement 100 MHz to 6 GHz
-------------------------------------	----------------------	------------------------------

			\leq 3 GHz	> 3 GHz	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 - 3 GHz: ≤ 5 mm [*]	$3 - 4 \text{ GHz:} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz:} \le 4 \text{ mm}^*$	
	uniform grid: $\Delta z_{Zoom}(n)$		\leq 5 mm	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm	
Maximum zoom scan spatial resolution, normal to phantom surface	graded	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	\leq 4 mm	$3 - 4$ GHz: ≤ 3 mm $4 - 5$ GHz: ≤ 2.5 mm $5 - 6$ GHz: ≤ 2 mm	
	grid	∆z _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$		
Minimum zoom scan volume x, y, z		\geq 30 mm	$3 - 4 \text{ GHz}: \ge 28 \text{ mm}$ $4 - 5 \text{ GHz}: \ge 25 \text{ mm}$ $5 - 6 \text{ GHz}: \ge 22 \text{ mm}$		
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE					

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is \leq 1.4 W/kg, \leq 8 mm, \leq 7 mm and \leq 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

4.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations, and is traceable to recognized national standards.

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
S-Parameter Network Analyzer	R&S	ZNLE6	101273-VA	4/24/2020
Dielectric Probe kit	SPEAG	DAK-3.5	1087	11/19/2020
Shorting Block	SPEAG	DAK-3.5 Short	SM DAK 200 BA	11/19/2020
Thermometer	Fisher Scientific	Traceable	170067398	5/21/2020

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Signal Generator	Agilent	N5181A	MY50140630	1/21/2021
Power Meter	HP	437B	3125U09516	1/22/2021
Power Meter	HP	437B	3125U11364	1/22/2021
Power Sensor	HP	8481A	1926A27048	2/12/2021
Power Sensor	HP	8481A	3318A92374	2/12/2021
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Bi-directional coupler	Werlatone, Inc.	C8060-102	2141	N/A
DC Power Supply	Sorensen Ametek	XT 15-4	1817A02680	N/A

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab 1)	SPEAG	EX3DV4	7501	5/21/2020
Data Acquisition Electronics (SAR Lab 1)	SPEAG	DAE4	1239	7/10/2020
System Validation Dipole	SPEAG	D2450V2	899	3/22/2020
Thermometer (SAR Lab 1)	Traceable	6530CC	181062308	2/27/2020

<u>Other</u>

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date	
Power Meter	Agilent	N1911A	MY45100242	1/31/2020*	
Power Sensor	Agilent	N1921A	MY55200004	2/06/2020*	

Note(s):

*Equipment not used past calibration due date.

5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be \leq 30%, for a confidence interval of k = 2. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

Therefore, the measurement uncertainty is not required.

6. Device Under Test (DUT) Information

6.1. DUT Description

Device Dimension	, J	Overall (Length x Width): 128 mm x 23 mm This is a Bluetooth Headset					
Back Cover	Normal Battery Cover	Normal Battery Cover					
Battery Options	Standard – Lithium-ion	Standard – Lithium-ion battery, Rating 3.75Vdc,.53Wh					
Accessory	Ear Piece, Padded Hea	Ear Piece, Padded Headset, Plastic Headset, Behind Ear Headset					
Bluetooth Tethering (Hotspot)	DUT does not support B	DUT does not support BT Tethering					
	S/N	IMEI	Notes				
Test sample information	N/A	N/A	REV 28 (RADIATED)				
	N/A	N/A	REV 28 (CONDUCTED)				
Hardware Version	AB						
Software Version	V67						

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating Mode	Duty Cycle used for SAR testing
Bluetooth	2.4 GHz	BR, EDR, LE, and HDR	GFSK: 77.3% ¹

Notes:

1. Measured Duty Cycle referenced from BT Report.

6.3. Test Rationale

The DUT is a headset that is worn against the ear and supports three mounting options. Each mounting option was evaluated to ensure compliance.

7. RF Exposure Conditions (Test Configurations)

Refer to Appendix A for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to- edge/surface	SAR Required
Bluetooth			Ear Piece	N/A	Yes
	Head	0 mm	Padded Headset	N/A	Yes
Bidetootin			Plastic Headset	N/A	Yes
			Behind Ear Headset	N/A	Yes

Notes:

SAR testing was performed on a SAM Flat Phantom

8. Dielectric Property Measurements & System Check

8.1. **Dielectric Property Measurements**

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^{\circ}$ C of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 - 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

The dielectric constant (ε r) and conductivity (σ) of typical tissue-equivalent media recipes are expected to

be within ± 5% of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for *ε*r and σ may be relaxed to ± 10%. This is limited to frequencies \leq 3 GHz.

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	He	ad
	ε _r	σ (S/m)
150	52.3	0.76
300	45.3	0.87
450	43.5	0.87
835	41.5	0.90
900	41.5	0.97
915	41.5	0.98
1450	40.5	1.20
1610	40.3	1.29
1800 – 2000	40.0	1.40
2450	39.2	1.80
3000	38.5	2.40
5000	36.2	4.45
5100	36.1	4.55
5200	36.0	4.66
5300	35.9	4.76
5400	35.8	4.86
5500	35.6	4.96
5600	35.5	5.07
5700	35.4	5.17
5800	35.3	5.27

IEEE Std 1528-2013

Refer to Table 3 within the IEEE Std 1528-2013

IEC 62209-1

Refer to Table A.3 within the IEC 62209-1

Dielectric Property Measurements Results:

Date		Band	Tissue	Frequency	Relat	ive Permittivit	ty (er)	Conductivity (σ)		
	(MHz)	(MHz) Type		Measured	Target	Delta (%)	Measured	Target	Delta (%)	
			2450	38.86	39.20	-0.87	1.85	1.80	2.50	
1	1 2/25/2020 2	020 2450 Head	Head	2400	38.91	39.30	-0.98	1.80	1.75	2.70
				2480	38.79	39.16	-0.95	1.86	1.83	1.34

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8.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0 ±0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be ≥ 15.0 cm for SAR measurements ≤ 3 GHz and ≥ 10.0 cm for measurements > 3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.
 For 5 GHz band The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.
- For 5 GHz band Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within $\pm 10\%$ of the manufacturer calibrated dipole SAR target. Refer to Appendix B for the SAR System Check Plots.

SAR Lab		Tissue	Dinala Tyra	Dipole - Cal. Due Data	Measured Results for 1g SAR				Measured Results for 10g SAR				Plot	
	Date	Туре			Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan to 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	No.	
1	I	2/25/2020	Head	D2450V2 SN:899	3/22/2020	5.510	55.10	51.60	6.78	2.560	25.60	24.10	6.22	1,2

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9. Conducted Output Power Measurements

9.1. Bluetooth

Maximum Output Power (Tune-up Limit) for Bluetooth

SAR measurement is not required when the secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode.

Bluetooth Measured Results

			Freq.	Maximum	Average Pov	ver (dBm)	
Band	Mode	Ch #	(MHz)	Meas Pwr	Tune-up	SARTest (Yes/No)	
	PD	0	2402	16.62	18.00		
	BR GFSK	39	2441	17.27	18.00	Yes	
	Gron	78	2480	17.55	18.00		
	EDR, π/4 DQPSK	0	2402	8.96	11.00		
		39	2441	9.97	11.00	No	
2.4		78	2480	10.21	11.00		
2.4	FDD	0	2402	9.07	11.00		
	EDR, 8-DPSK	39	2441	10.36	11.00	No	
	0 BI OK	78	2480	10.74	11.00	1	
		0	2402	6.50	8.00		
	LE, GFSK	19	2440	7.74	8.00	No	
	0.01	39	2480	7.77	8.00		

10. Measured and Reported (Scaled) SAR Results

10.1. Bluetooth

RF Exposure	RE Exposure	Dist.				Pow er (dBm)		1-g SAR (W/kg)		Plot
	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up Limit	Meas.	Meas.	Scaled	No.	
				0	2402	18.00	16.62	0.198	0.272	
		SK O	Ear Piece	39	2441	18.00	17.27	0.400	0.473	
Head	GFSK			78	2480	18.00	17.55	0.474	0.526	1
neau	Gran		Padded Headset	78	2480	18.00	17.55	0.054	0.060	
			Plastic Headset	78	2480	18.00	17.55	0.231	0.256	
			Behind Ear Headset	78	2480	18.00	17.55	0.325	0.360	

11. SAR Measurement Variability

In accordance with published RF Exposure KDB 865664 D01 SAR measurement 100 MHz to 6 GHz. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.8 or 2 W/kg (1-g or 10-g respectively); steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.8 or 2 W/kg (1-g or 10-g respectively), repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 or 3.6 W/kg (~ 10% from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first, or second repeated measurement is ≥ 1.5 or 3.75 W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Note(s):

Repeated measurement is not required since the original highest measured SAR is <0.8 W/kg (1-g) or 2 W/kg (10-g) .

12. Simultaneous Transmission Conditions

This DUT does not support Simultaneous Transmission.

Appendixes

Refer to separated files for the following appendixes.

- Appendix A: SAR Setup Photos
- Appendix B: SAR System Check Plots
- **Appendix C: SAR Highest Test Plots**
- Appendix D: SAR Tissue Ingredients
- Appendix E: SAR Probe Certificates
- Appendix F: SAR Dipole Certificates

END OF REPORT