



DECLARATION OF COMPLIANCE SAR ASSESSMENT Part 1 of 4

**Motorola Solutions, Inc.
EME Test Laboratory**

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**Date of Report: 06/03/2015
Report Revision: B**

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Date/s Tested: 12/16/2014 –2/10/2015, 4/8/2015 – 4/9/2015, 5/6/2015
Manufacturer/Location: Motorola Solutions, Inc, Penang
Sector/Group/Div.: ASTRO
Date submitted for test: 12/09/14
DUT Description: Handheld Portable - Frequency bands; LMR 136-174 MHz, 380-520 MHz, 764-776 MHz, 794-824 MHz & 851-869 MHz; Bluetooth 2.402-2.480 GHz; WLAN 2.400-2.483.5 GHz
Test TX mode(s): CW (PTT), Bluetooth, and WLAN 802.11b/g/n
Max. Power output: 6.6 W (VHF), 5.7 W (UHF), 2.99 W (700 MHz band), 3.6 W (800 MHz band), 10 mW (Bluetooth), 63.1 mW (802.11b), 25.1 mW (802.11g/n)
Nominal Power: 6.0 W (VHF), 5.0 W (UHF), 2.5 W (700 MHz band), 3.0 W (800 MHz band), 10 mW (Bluetooth), 47.1 mW (802.11b), 19.95 mW (802.11g), 19.63 mW (802.11n)
Tx Frequency Bands: LMR 136-174 MHz, 380-520 MHz, 764-805 MHz, 806-870 MHz; Bluetooth 2402-2480 MHz; WLAN 2400-2483.5 MHz
Signaling type: FM, TDMA, FHSS (Bluetooth), 802.11b/g/n (WLAN)
Model(s) Tested: H91TGD9PW5AN (NUW1006A); H91TGD9PW7AN (NUW1008A)
Model(s) Certified: H91TGD9PW5AN (NUW1006A); H91TGD9PW7AN (NUW1008A)
Serial Number(s): AT3A086, AT3A087, AT3A089, AT3A091, AT3A084, AT3A138, AT3A088, AT3A139, AT3A085, AT3A382
Classification: Occupational/Controlled
FCC ID: AZ489FT7061; 150.8-173.4 MHz, 406.1-512 MHz, 764-775 MHz, 794-824 MHz, 851-869 MHz
 This report contains results that are immaterial for FCC equipment approval, which are clearly identified.
IC: 109U-89FT7061; This report contains results that are immaterial for IC equipment approval, which are clearly identified.

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of OET Bulletin 65. The 10 grams result is not applicable to FCC filing. The test results clearly demonstrate compliance with ICNIRP (1998) Guidelines for limiting exposure in time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz), Health Physics 74, 494-522 RF Exposure limits of 10 W/kg averaged over 10grams of contiguous tissue.

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the national and international reference standards and guidelines listed in section 4.0 of this report. This report shall not be reproduced without written approval from an officially designated representative of the Motorola Solutions Inc EME Laboratory. I attest to the accuracy of the data and assume full responsibility for the completeness of these measurements. This reporting format is consistent with the suggested guidelines of the TIA TSB-150 December 2004. The results and statements contained in this report pertain only to the device(s) evaluated.

Deanna Zakharia
EME Lab Senior Resource Manager,
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Approval Date: 6/03/2015

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Report Revision History

Date	Revision	Comments
5/13/2015	A	Initial release
6/03/2015	B	Updated Table 1, sections 12.6, 13.16, 14.0 & 15.0

1.0 Introduction example

This report details the utilization, test setup, test equipment, and test results of the Specific Absorption Rate (SAR) measurements performed at the Motorola Solutions Inc. EME Test Laboratory for handheld portables model number H91TGD9PW5AN (NUW1006A) and H91TGD9PW7AN (NUW1008A). These devices are classified as Occupational/Controlled.

2.0 FCC SAR Summary

TABLE 1

Equipment Class	Frequency band (MHz)	Max Calc at Body (W/kg)		Max Calc at Face (W/kg)	
		1g-SAR	10g-SAR	1g-SAR	10g-SAR
TNF	150.8-173.4 MHz (LMR)	3.53	1.16	0.73	0.55
	406.1-470 MHz (LMR)	7.40	5.05	4.27	3.12
	450-512 MHz (LMR)	7.91	5.36	3.17	2.35
	7/800 (LMR)	7.08	4.35	2.79	2.03
*DSS	2402-2480 MHz	NA	NA	NA	NA
DTS	2400-2483.5 MHz	0.0348	0.0188	0.1597	0.0945
Simultaneous Results		7.94	5.38	4.43	3.21

*Results not required per KDB (refer to sections 13.16 and 14.0)

3.0 Abbreviations / Definitions

- BT: Bluetooth
- CNR: Calibration Not Required
- CW: Continuous Wave
- DSP: Digital Signal Processor
- DSS: Direct Spread Spectrum
- DSSS: Direct Sequence Spread Spectrum
- DTS: Digital Transmission System
- DUT: Device Under Test
- EME: Electromagnetic Energy
- FHSS: Frequency Hopping Spread Spectrum
- FM: Frequency Modulation
- GPS: Global Positioning System
- Li-Ion: Lithium Ion
- LMR: Land Mobile Radio
- MIC: Microphone
- NA: Not Applicable
- NiMH: Nickel Metal Hydrate

PSM: Public Safety Microphone
PTT: Push to Talk
SAR: Specific Absorption Rate
STD: Standard
RF: Radio Frequency
RSM: Remote Speaker Microphone
TDMA: Time Division Multiple Access
TNF: Licensed Non-Broadcast Transmitter Held to Face
VOX: Voice Operated eXchange
WLAN: Wireless Local Area Network

Audio accessories: These accessories allow communication while the DUT is worn on the body.

Body worn accessories: These accessories allow the DUT to be worn on the body of the user.

Maximum Power: Defined as the upper limit of the production line final test station.

4.0 Referenced Standards and Guidelines

This product is designed to comply with the following applicable national and international standards and guidelines.

- IEC62209-1 (2005) Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)
- Federal Communications Commission, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, FCC, Washington, D.C.: 1997.
- IEEE 1528 (2003), Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
- American National Standards Institute (ANSI) / Institute of Electrical and Electronics Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronics Engineers (IEEE) C95.1-2005
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6 (2009), Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
- Australian Communications Authority Radio communications (Electromagnetic Radiation - Human Exposure) Standard (2003)
- ANATEL, Brazil Regulatory Authority, Resolution No. 303 of July 2, 2002 "Regulation of the limitation of exposure to electrical, magnetic, and electromagnetic fields in the radio frequency range between 9 kHz and 300 GHz." and "Attachment to resolution # 303 from July 2, 2002"

- IEC62209-2 Edition 1.0 2010-03, Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz).
- FCC KDB – 643646 D01 SAR Test for PTT Radios v01r01
- FCC KDB – 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- FCC KDB – 865664 D02 RF Exposure Reporting v01r01
- FCC KDB – 447498 D01 General RF Exposure Guidance v05r02
- FCC KDB – 941225 D05 SAR for LTE Devices v02r03
- FCC KDB – 941225 D01 3G SAR Procedures v03
- FCC KDB – 248227 D01 SAR measurement for 802.11 a/b/g v01r02
- FCC KDB – 648474 D04 Handset SAR v01r02

5.0 SAR Limits

TABLE 2

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average - ANSI - (averaged over the whole body)	0.08	0.4
Spatial Peak - ANSI - (averaged over any 1-g of tissue)	1.6	8.0
Spatial Peak – ICNIRP/ANSI - (hands/wrists/feet/ankles averaged over 10-g)	4.0	20.0
Spatial Peak - ICNIRP - (Head and Trunk 10-g)	2.0	10.0

6.0 Description of Device Under Test (DUT):

These portable devices operate in the LMR bands using frequency modulation (FM) and TDMA signals incorporating traditional simplex two-way radio transmission protocol. These devices also contain WLAN technology for data capabilities over 802.11b/g/n wireless networks and Bluetooth technology for short range wireless devices.

Time Division Multiple Access (TDMA) is used to allocate portions of the RF signal by dividing time into two slots. Time allocation enables each unit to transmit its voice information without interference from other transmitting units. Transmission from a unit or base station is accommodated during two time-slot lengths of 15 milliseconds with frame length of 60 milliseconds. The TDMA technique requires sophisticated algorithms and a digital signal processor (DSP) to perform voice compressions/decompressions and RF modulation/demodulation. The maximum duty cycle for TDMA 1:2 is 50%.

The LMR bands in these devices operate in a half duplex system. A half duplex system only allows the user to transmit or receive. These devices cannot transmit and receive simultaneously. The user must stop transmitting in order to receive a signal or listen for a response, regardless of PTT button or use of voice activated audio accessories. This type of operation which instructs the user to transmit no more than 50% of the time, justifies the use of 50% duty factor for this device.

These devices also incorporate a Class 1 Bluetooth device which is a Frequency Hopping Spread Spectrum (FHSS) technology. The Bluetooth radio modem is used to wireless link audio accessories. The maximum actual transmission duty cycle is imposed by the Bluetooth standard. The maximum duty cycle for BT is 76.1%. Refer to section 14.0 Simultaneous Transmission Exclusion.

WLAN 802.11b/g/n operates using Direct Sequence Spread Spectrum (DSSS). These devices work in accordance with the IEEE 802.11b/g/n standard.

Table 3 below summarizes the technologies, bands, maximum duty cycles and maximum output powers. Maximum output powers are defined as upper limit of the production line final test station.

TABLE 3

Radio Type	Band (MHz)	Transmission	Duty Cycle (%)	Max Power (W)
LMR	136-174	FM or TDMA	*50 / *25	6.60
LMR	380-520	FM or TDMA	*50 / *25	5.70
LMR	764-805	FM or TDMA	*50 / *25	2.99
LMR	806-870	FM or TDMA	*50 / *25	3.60
BT	2400	FHSS	76	0.01
WLAN	2400 - 2483.5	802.11b	100	0.0631
WLAN	2400 - 2483.5	802.11g	100	0.0251
WLAN	2400 - 2483.5	802.11n	100	0.0251

Note - * includes 50% PTT operation

The intended operating positions are “at the face” with the DUT at least 2.5 cm from the mouth, and “at the body” by means of the offered body worn accessories. Body worn audio and PTT operation is accomplished by means of optional remote accessories that are connected to the radio. Operation at the body without an audio accessory attached is possible by means of BT accessories.

7.0 Optional Accessories and Test Criteria:

These devices are offered with optional accessories. All accessories were individually evaluated during the test plan creation to determine if testing was required per the guidelines outlined in “SAR Test Reduction Considerations for Occupational PTT Radios” FCC KDB 643646 to assess compliance of this device. The following sections identify the test criteria and details for each accessory category. Refer to Exhibit 7B for antenna separation distances.

7.1 Antennas:

There are optional removable antennas, PSM antennas, and an internal BT/WLAN antenna offered for these models. The Table below lists the antennas and their descriptions.

TABLE 4

Antenna Models	Description	Selected for Test	Tested
KT000026A01	VHF/7-800/U1/U2/GPS antenna; 136-174 MHz, 380-470 MHz, 450-520 MHz, 760-870 MHz, 1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
NAR6593A	VHF/GPS antenna; 136-175 MHz, 1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
NAF5085A	7-800/GPS antenna; 760-870 MHz,1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
FAF5260A	U2/GPS Stubby antenna; 450-520 MHz,1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
NAR6594A	VHF/7-800/GPS antenna; 136-174 MHz, 764-870 MHz, 1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
NAR6595A	7-800 Stubby antenna; 764-870 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
PMAS4001A	U1/U2/7-800/GPS antenna; 380-470 MHz, 450-520 MHz, 764-870 MHz, 1575 MHz; ¼ wave ; -2 dB gain	Yes	Yes
PMAT4001A	VHF/U1/U2/GPS antenna; 136-175 MHz, 380-470 MHz, 450-520 MHz, 1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
FAF5259A	U1/GPS Stubby antenna; 380-470 MHz, 1575 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
PMAE4065A	U1/U2/GPS antenna; 380-470 MHz, 450-520 MHz, 1575 MHz; ¼ wave; -2 dBd gain	Yes	Yes
PMAF4002A	700/800MHz PSM antenna; 764-870 MHz; ¼ wave ; -2 dBd gain	Yes	Yes
84009370002	Internal BT/WLAN antenna; 2.4 - 2.483.5 GHz; ¼ wave; 2.58 dBi gain	Yes	Yes; only for WLAN

7.2 Batteries:

There are five batteries offered for this model. The Table below lists the batteries and their descriptions.

TABLE 5

Battery Models	Description	Tested	Selected for Test	Comments
NNTN7034B	Delta T Battery 4200 mAh	Yes	Yes	Cannot be tested with body worn PMLN5657B. Default battery for face testing.
NNTN7038B	Battery IMPRES STD IP67 Li-Ion 2900Min 3100Typical	Yes	Yes	
NNTN8092A	Battery IMPRES FM R Li-Ion 2300Min 2350Typical Black	Yes	Yes	
PMNN4403B	Battery STD IP67 Li-Ion 2050Min Black	Yes	Yes	Default battery for body testing
NNTN7573A	IMPRES NiMH 2100 mAh Submersible (Delta T) Battery - Ruggedized	Yes	Yes	Cannot be tested with body worn PMLN5657B

7.3 Body worn Accessories:

All body worn accessories were considered. The table below lists the body worn accessories and their descriptions.

TABLE 6

Body worn Models	Description	Tested	Selected for Test	Comments
HLN6875A	3 Inch Belt Clip	Yes	Yes	
NTN5243A	Shoulder Strap (Attaches To D-Rings On Carry Case)	Yes	Yes	Tested w/ PMLN5657B
NTN8266B	2.5 Inch Belt Clip	Yes	Yes	
PMLN5657B	Carry Case 2.75 Inch Swivel Belt Loop 2900&2150 mAh	Yes	Yes	Not for batteries NNTN7034B and NNTN7573A
PMLN5709A	Basic Carry Holder	Yes	Yes	Tested w/ NTN8266B and HLN6875A
4200865599	Belt	No	No	

7.4 Audio Accessories:

All audio accessories were considered. The table below lists the offered audio accessories and their descriptions.

TABLE 7

Audio Acc. Models	Description	Tested	Selected for Test	Comments
HMN4104B	IMPRES Display Remote Speaker	Yes	*Yes	
NMN6274A	IMPRES XP RSM W/ Dual MIC Noise Suppression, 3.5 mm Threaded Jack	Yes	*Yes	
NNTN8203A	IMPRES XE Remote Speaker MIC	Yes	Yes	Default audio
NNTN8575A	Audio Accessory-Remote Speaker MIC	Yes	*Yes	
PMLN5101A	IMPRES Temple Transducer	Yes	*Yes	
PMMN4059B	IMPRES Public Safety Microphone - 18 Inch Cable	Yes	*Yes	
PMMN4060B	Public Safety Microphone IP55 With 3.5 mm Jack RX 24 Inch	Yes	*Yes	
PMMN4061B	IMPRES Public Safety MIC - 30 Inch Cable	Yes	*Yes	
PMMN4062A	IMPRES Remote Speaker MIC, Noise Cancelling	Yes	*Yes	
PMMN4084A	Plus RSM NC IP54 Threaded 3.5mm Jack RX	Yes	*Yes	
NNTN7869A	Surveillance/Keyloader Accessory Adapter	Yes	*Yes	Tested w/ ZMN6038ASP01.
PMLN5111A	IMPRES 3 Wire Surveillance Kit With Translucent Tube, Black	Yes	*Yes	
PMLN5275C	Heavy Duty Headset	Yes	*Yes	
RLN5882A	IMPRES 2 Wire Surveillance Kit With Translucent Tube, Black	Yes	*Yes	
RMN5058A	Lightweight Headset	Yes	*Yes	

TABLE 7 (continued)

Audio Acc. Models	Description	Tested	Selected for Test	Comments
ZMN6038ASP01	Speaker MIC 2 Pieces Extra Loud, Black	Yes	*Yes	Tested w/ NNTN7869A.
3HMN4101B	IMPRES RSM No Display With Jack, No Channel	No	No	By similarity to HMN4104B
HMN4103B	IMPRES RSM Display With Jack, No Channel	No	No	By similarity to HMN4104B
NMN6271A	IMPRES XP RSM FOR APX With Dual MIC	No	No	By similarity to HMN4104B
NNTN8203ABLK	Audio Accessory-Remote Speaker MIC	No	No	By similarity to NNTN8203A
NNTN8203AYLW	Audio Accessory-Remote Speaker MIC	No	No	By similarity to NNTN8203A
NNTN8575ABLK	Audio Accessory-Remote Speaker MIC	No	No	By similarity to NNTN8575A
NNTN8575AYLW	Audio Accessory-Remote Speaker MIC	No	No	By similarity to NNTN8575A
NTN2570C	Mission Critical Wireless Earpiece With Long Cord (280 mm)	No	No	BT accessory
NTN2573B	Mission Critical Wireless Earpiece With Short Cord (190 mm)	No	No	BT accessory
PMLN5112A	IMPRES 3 Wire Surveillance Kit With Translucent Tube, Beige	No	No	By similarity to PMLN5111A
PMMN4065A	IMPRES RSM, IP57	No	No	By similarity to PMMN4062A
PMMN4069A	IMPRES RSM, 3.5 mm Jack, IP55	No	No	By similarity to PMMN4062A
PMMN4083A	IMPRES RSM Delta-T	No	No	By similarity to PMMN4062A
PMMN4099A	Audio Accessory-Remote Speaker MIC	No	No	By similarity to PMMN4062A
RLN4760A	Small Custom Earpiece, Right Ear, For Surveillance Kits	No	No	Piece part
RLN4761A	Medium Custom Earpiece, Right Ear, For Surveillance Kits	No	No	Piece part
RLN4762A	Large Custom Earpiece, Right Ear, For Surveillance Kits	No	No	Piece part
RLN4763A	Small Custom Earpiece, Left Ear, For Surveillance Kits	No	No	Piece part
RLN4764A	Medium Custom Earpiece Left Ear, For Surveillance Kits	No	No	Piece part
RLN4765A	Large Custom Earpiece, Left Ear, For Surveillance Kits	No	No	Piece part
RLN4941A	Receive Only Earpiece With Translucent Tube	No	No	Received only
RLN5878A	Receive Only Surveillance Kit, Black	No	No	Received only
RLN5879A	Receive Only Surveillance Kit, Beige	No	No	Received only
RLN5880A	IMPRES 2 Wire Surveillance Kit, Black	No	No	By similarity to RLN5882A
RLN5881A	IMPRES 2 Wire Surveillance Kit, Beige	No	No	By similarity to RLN5882A
RLN5883A	IMPRES 2 Wire Surveillance Kit With Translucent Tube, Beige	No	No	By similarity to RLN5882A
RLN6554A	Accessory Kit, Wireless RSM	No	No	BT accessory
WADN4190B	Receive Only Over The Ear Flexible Earpiece	No	No	Received only

Note - * Intended for test. Per KDB provisions tests not required for VHF band.

8.0 Description of Test System:



8.1 Descriptions of Robotics/Probes/Readout Electronics:

TABLE 8

Dosimetric System type	System version	DAE type	Probe Type
Schmid & Partner Engineering AG SPEAG DASY 5	52.8.8.1222	DAE4	ES3DV3 (E-Field)

The DASY5™ system is operated per the instructions in the DASY5™ Users Manual. The complete manual is available directly from SPEAG™. All measurement equipment used to assess SAR compliance was calibrated according to ISO/IEC 17025 A2LA guidelines. Section 9.0 presents additional test equipment information. Appendices B and C present the applicable calibration certificates. The E-field probe first scans a coarse grid over a large area inside the phantom in order to locate the interpolated maximum SAR distribution. After the coarse scan measurement, the probe is automatically moved to a position at the interpolated maximum. The subsequent scan can directly use this position as reference for the cube evaluations.

8.2 Description of Phantom(s)

TABLE 9

Phantom Type	Phantom(s) Used	Material Parameters	Phantom Dimensions LxWxD (mm)	Material Thickness (mm)	Support Structure Material	Loss Tangent (wood)
Triple Flat	NA	200MHz -6GHz; Er = 3-5, Loss Tangent = ≤0.05	280x175x175	2mm +/- 0.2mm	Wood	< 0.05
SAM	NA	300MHz -6GHz; Er = < 5, Loss Tangent = ≤0.05	Human Model			
Oval Flat	√	300MHz -6GHz; Er = 4+/- 1, Loss Tangent = ≤0.05	600x400x190			

8.3 Description of Simulated Tissue:

The sugar based simulate tissue is produced by placing the correct measured amount of De-ionized water into a large container. Each of the dried ingredients are weighed and added to the water carefully to avoid clumping. If the solution has a high sugar concentration the water is pre-heated to aid in dissolving the ingredients. For Diacetin and similar type simulates, sugar and HEC ingredients are not needed. The solution is mixed thoroughly, covered, and allowed to sit overnight prior to use.

The simulated tissue mixture was mixed based on the Simulated Tissue Composition indicated in Table 10. During the daily testing of this product, the applicable mixture was used to measure the Di-electric parameters at each of the tested frequencies to verify that the Di-electric parameters were within the tolerance of the tissue specifications.

Simulated Tissue Composition (by mass)

TABLE 10

% of Listed Ingredients	150 MHz		450MHz		835MHz		2450MHz	
	Head	Body	Head	Body	Head	Body	Head	Body
Sugar	55.4	49.7	56.0	46.5	57.0	44.9	0	0
Diacetin	0	0	0	0	0	0	51.0	34.5
De ionized -Water	38.35	46.2	39.1	50.53	40.45	53.06	48.75	65.20
Salt	5.15	3.00	3.8	1.87	1.45	0.94	0.15	0.20
HEC	1	1	1	1	1	1	0	0
Bact.	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

9.0 Additional Test Equipment:

The table below lists additional test equipment used during the SAR assessment.

TABLE 11

Equipment Type	Model Number	Serial Number	Calibration Date	Calibration Due Date
Power Meter (Agilent)	E4419B	MY40330364	6/3/2014	6/3/2015
Power Meter (Agilent)	E4418B	MY45100911	6/3/2014	6/3/2015
Power Meter (Agilent)	E4418B	MY45100532	10/21/2014	10/21/2015
Power Meter (Agilent)	E4418B	MY45101014	10/21/2014	10/21/2015
* Power Meter (Agilent)	E4416A	MY50001037	2/19/2014	2/19/2015
† Power Meter (Agilent)	E4418B	MY45100739	6/3/2014	6/3/2015
* E-Series Avg. Power Sensor (Agilent)	8481B	MY51450002	2/24/2014	2/24/2015
E-Series Avg. Power Sensor (Agilent)	8481B	3318A07546	6/4/2014	6/4/2016
E-Series Avg. Power Sensor (Agilent)	8481B	SG41090248	10/25/2014	10/25/2015
E-Series Avg. Power Sensor (Agilent)	8481B	MY41091170	10/25/2014	10/25/2015
E-Series Avg. Power Sensor (Agilent)	8481B	MY41091243	7/2/2014	7/2/2015
† E-Series Avg. Power Sensor (Agilent)	8481B	SG41090258	6/3/2014	6/3/2015
Signal Generator (Agilent)	E4438C	MY45091270	7/9/2014	7/9/2016
Signal Generator (Agilent)	E4438C	MY47272101	8/12/2014	8/12/2016
AMP (Amplifier Research)	10W1000C	312858	CNR	CNR
AMP (Amplifier Research)	10W1000C	312859	CNR	CNR
Bi-Directional Coupler (NARDA)	3020A	41935	8/22/2014	8/22/2015
Temperature Recording Equipment				
Omega Digital Thermometer with J Type TC Probe	80PK-22	8766	8/11/2014	8/11/2015
Dickson Temperature Recorder	TM320	06153216	7/11/2014	7/11/2015
Thermometer	HH806AU	080307	11/12/2014	11/12/2015
Tissue Station				
Agilent PNA-L Network Analyzer	E5071B	MY42403218	7/24/2014	7/24/2015
Dielectric Assessment Kit (DAK)	DAK-12	1069	5/13/2014	5/13/2015
Dipole				
Speag Dipole	CLA150	4010	5/8/2014	5/8/2015
* Speag Dipole	D450V3	1053	3/12/2013	3/12/2015
† Speag Dipole	D450V3	1054	10/18/2013	10/18/2015
Speag Dipole	D835V2	4d029	3/5/2013	3/5/2015
Speag Dipole	D2450V2	781	3/6/2013	3/6/2015
DAE				
* Speag DAE	DAE4	688	3/25/2014	3/25/2015
Speag DAE	DAE3	374	5/14/2014	5/14/2015
† Speag DAE	DAE4	684	11/5/2014	11/5/2015
Probe				
* Speag Probe	ES3DV3	3122	3/26/2014	3/26/2015
Speag Probe	ES3DV3	3196	3/26/2014	3/26/2015
† Speag Probe	ES3DV3	3274	11/12/2014	11/12/2015

Note: * Equipment used for test dates prior to equipment calibration due date.

† Equipment used to replace equipment out for calibration.

10.0 SAR Measurement System Validation and Verification

DASY output files of the probe/dipole calibration certificates and system verification test results are included in appendices B, C & D respectively.

10.1 System Validation

The SAR measurement system was validated according to procedures in KDB 865664. The validation status summary Table is below.

TABLE 12

Dates	Probe Calibration Point		Probe SN	Measured Tissue Parameters		Validation		
				σ	ϵ_r	Sensitivity	Linearity	Isotropy
CW								
06/24/2014	Body	150	3196	0.97	59.7	Pass	Pass	Pass
06/25/2014	Head	150		0.77	52.0	Pass	Pass	Pass
07/01/2014	Body	450		0.95	55.5	Pass	Pass	Pass
06/25/2014	Head	450		0.84	42.7	Pass	Pass	Pass
10/26/2014	Body	835		0.98	55.5	Pass	Pass	Pass
10/20/2014	Head	835		0.89	40.8	Pass	Pass	Pass
10/18/2014	Body	2450		1.95	51.5	Pass	Pass	Pass
10/19/2014	Head	2450		1.82	38.2	Pass	Pass	Pass
07/29/2014	Body	450	3122	0.93	54.3	Pass	Pass	Pass
07/29/2014	Head	450		0.88	42.2	Pass	Pass	Pass
01/15/2015	Body	835		0.99	54.1	Pass	Pass	Pass
02/06/2015	Body	450	3274	0.92	53.9	Pass	Pass	Pass
02/28/2015	Body	450	3096	0.92	54.7	Pass	Pass	Pass

10.2 System Verification

System verification checks were conducted each day during the SAR assessment. The results are normalized to 1W. Appendix D includes DASY plots for each day during the SAR assessment. The Table below summarizes the daily system check results used for the SAR assessment.

TABLE 13

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Ref SAR @ 1W (W/kg)	System Check Results Measured (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date
3196	FCC Body	SPEAG CLA150 / 4010	3.69 +/- 10%	3.59	3.59	01/09/15
				3.52	3.52	01/12/15
				3.55	3.55	01/13/15
				3.59	3.59	01/15/15
				3.48	3.48	02/05/15
				3.54	3.54	02/06/15
				3.46	3.46	02/07/15
				3.80	3.80	12/16/14
	IEEE/IEC Head		3.55 +/- 10%	3.78	3.78	12/17/14
				3.74	3.74	12/18/14
				3.56	3.56	12/21/14
				3.87	3.87	12/22/14
				3.32	3.32	01/19/15

TABLE 13 (continued)

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Ref SAR @ 1W (W/kg)	System Check Results Measured (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date
3196	IEEE/IEC Head	SPEAG CLA150 / 4010	3.55 +/- 10%	3.47	3.47	01/20/15
				3.41	3.41	02/09/15
3196	IEEE/IEC Head	SPEAG D450V3 / 1053	4.71 +/- 10%	1.08	4.32	01/03/15
				1.16	4.64	01/05/15
				1.18	4.72	01/06/15
				1.15	4.60	01/07/15
				1.11	4.44	01/08/15
				1.11	4.44	01/09/15
	FCC Body	SPEAG D835V2 / 4d029	9.66 +/- 10%	2.27	9.08	01/22/15
				2.24	8.96	01/23/15
				2.19	8.76	01/25/15
				2.21	8.84	01/26/15
				2.20	8.80	01/27/15
	IEEE/IEC Head	SPEAG D835V2 / 4d029	9.46 +/- 10%	2.18	8.72	02/16/15
				2.21	8.84	12/22/14
				2.22	8.88	12/23/14
				2.15	8.60	12/26/14
				2.13	8.52	12/29/14
				2.15	8.60	12/30/14
	FCC Body	SPEAG D2450V2 / 781	50.40 +/- 10%	2.16	8.64	12/31/14
				12.10	48.40	02/10/15
				12.30	49.20	01/29/15
11.70				47.20	01/30/15	
12.70				50.80	01/31/15	
IEEE/IEC Head	SPEAG D2450V2 / 781	53.60 +/- 10%	12.70	50.80	01/28/15	
			12.70	50.80	01/29/15	
			12.80	51.20	01/29/15	
			12.80	51.20	02/02/15	
3122	FCC Body	SPEAG D450V3 / 1053	4.55 +/- 10%	1.15	4.60	12/16/14
				1.18	4.72	12/17/14
				1.13	4.52	12/18/14
				1.17	4.68	12/20/14
				1.08	4.32	12/21/14
				1.12	4.48	12/22/14
				1.03	4.12	12/23/14
				1.14	4.56	12/24/14
				1.14	4.56	12/25/14
				1.06	4.24	12/26/14
				1.17	4.68	12/29/14
				1.10	4.40	12/31/14
				1.10	4.40	01/01/15
				1.10	4.40	01/03/15
				1.11	4.44	01/04/15
				1.16	4.64	01/05/15
				1.12	4.48	01/06/15
				1.12	4.48	01/07/15
				1.13	4.52	01/08/15
				1.15	4.60	01/09/15
1.12	4.48	01/11/15				
1.11	4.44	01/12/15				
1.12	4.48	01/13/15				

TABLE 13 (continued)

Probe Serial #	Tissue Type	Dipole Kit / Serial #	Ref SAR @ 1W (W/kg)	System Check Results Measured (W/kg)	System Check Test Results when normalized to 1W (W/kg)	Tested Date		
3122	FCC Body	SPEAG D450V3 / 1053	4.55 +/- 10%	1.12	4.48	01/14/15		
				1.10	4.40	02/01/15		
				1.09	4.36	02/02/15		
				1.10	4.40	02/03/15		
				1.09	4.36	02/05/15		
	IEEE/IEC Head		4.71 +/- 10%	1.09	4.36	02/03/10		
				1.12	4.48	02/04/15		
	FCC Body			SPEAG D835V2 / 4d029	9.66 +/- 10%	2.48	9.92	01/15/15
						2.49	9.96	01/16/15
			2.42			9.68	01/17/15	
		2.40	9.60			01/18/15		
		2.41	9.64			01/19/15		
		2.39	9.56			01/20/15		
		2.38	9.52			01/21/15		
		2.32	9.28			01/22/15		
		2.34	9.36			01/23/15		
		2.36	9.44			01/24/15		
		2.35	9.40			01/25/15		
		2.34	9.36			01/26/15		
2.29		9.16	01/27/15					
2.39		9.56	01/28/15					
2.29	9.16	01/29/15						
2.31	9.24	01/30/15						
3274	FCC Body	SPEAG D450V3 / 1054	4.60 +/- 10%	1.13	4.52	04/08/15		
				1.13	4.52	04/09/15		
3096	FCC Body	SPEAG D450V3 / 1054	4.60 +/- 10%	1.09	4.36	05/06/15		

10.3 Equivalent Tissue Test Results

Simulated tissue prepared for SAR measurements is measured daily and within 24 hours prior to actual SAR testing to verify that the tissue is within +/- 5% of target parameters at the center of the transmit band. This measurement is done using the applicable equipment indicated in section 9.0. The Table below summarizes the measured tissue parameters used for the SAR assessment.

TABLE 14

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
136	FCC Body	0.79 (0.75-0.83)	62.30 (59.10-65.40)	0.76	60.70	02/05/15
				0.77	62.60	02/06/15
	IEEE/IEC Head	0.75 (0.71-0.79)	53.00 (50.30-55.60)	0.72	51.20	12/17/14
				0.76	52.50	12/18/14
				0.72	52.80	12/21/14
				0.75	52.50	12/22/14

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
140	FCC Body	0.79 (0.75-0.83)	62.20 (59.00-65.30)	0.77	60.50	02/05/15
				0.77	62.30	02/06/15
				0.78	61.60	02/07/15
	IEEE/IEC Head	0.75 (0.71-0.79)	52.80 (50.12-55.40)	0.72	51.00	12/17/14
				0.76	52.30	12/18/14
				0.75	52.30	12/22/14
				0.73	55.00	01/19/15
143	FCC Body	0.80 (0.76-0.83)	62.10 (59.00-65.20)	0.77	60.40	02/05/15
				0.77	62.20	02/06/15
	IEEE/IEC Head	0.76 (0.72-0.80)	52.60 (50.00-55.30)	0.72	50.90	12/17/14
				0.76	52.10	12/18/14
				0.73	52.40	12/21/14
				0.75	52.10	12/22/14
				0.73	54.80	01/19/15
147	FCC Body	0.80 (0.76-0.84)	62.00 (58.90-65.10)	0.77	60.30	02/05/15
				0.78	62.00	02/06/15
	IEEE/IEC Head	0.76 (0.72-0.80)	52.40 (49.80-55.10)	0.73	50.70	12/17/14
				0.76	51.90	12/18/14
				0.73	52.10	12/21/14
				0.76	51.90	12/22/14
150	FCC Body	0.80 (0.76-0.84)	61.90 (58.80-65.00)	0.77	60.20	01/09/15
				0.78	59.40	01/12/15
				0.78	59.50	01/13/15
				0.78	59.30	01/15/15
				0.77	60.20	02/05/15
				0.78	61.80	02/06/15
				0.78	61.30	02/07/15
	IEEE/IEC Head	0.76 (0.72-0.80)	52.30 (49.70-54.90)	0.75	51.70	12/16/14
				0.73	50.50	12/17/14
				0.77	51.70	12/18/14
				0.73	52.00	12/21/14
				0.76	51.70	12/22/14
				0.73	54.30	01/19/15
				0.73	54.10	01/20/15
156	FCC Body	0.80 (0.76-0.84)	61.80 (58.70-64.80)	0.75	54.60	02/09/15
				0.77	60.00	01/09/15
				0.78	59.20	01/12/15
				0.78	59.30	01/13/15
				0.78	59.10	01/15/15
				0.77	60.00	02/05/15
				0.78	61.20	02/07/15

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
173	IEEE/IEC Head	0.78 (0.74-0.82)	51.20 (48.70-53.80)	0.77	50.50	12/16/14
				0.75	49.50	12/17/14
				0.77	53.60	02/09/15
380	FCC Body	0.93 (0.88-0.98)	57.40 (54.50-60.30)	0.91	55.40	02/01/15
	IEEE/IEC Head	0.87 (0.83-0.91)	44.30 (42.10-46.60)	0.83	45.90	01/06/15
0.84				45.70	01/07/15	
393	FCC Body	0.93 (0.89-0.98)	57.30 (54.40-60.10)	0.92	55.30	02/01/15
	IEEE/IEC Head	0.87 (0.83-0.91)	44.20 (42.00-46.40)	0.84	45.60	01/06/15
				0.85	45.30	01/07/15
406	FCC Body	0.93 (0.89-0.98)	57.10 (54.30-60.00)	0.92	56.10	12/16/14
				0.92	56.20	12/17/14
				0.91	56.30	12/18/14
				0.91	56.20	12/20/14
				0.91	56.50	12/21/14
				0.91	56.50	12/22/14
				0.92	57.00	12/23/14
				0.93	55.90	12/24/14
				0.93	56.10	12/25/14
				0.92	55.80	12/26/14
				0.93	55.70	12/29/14
				0.91	55.40	12/31/14
				0.92	56.10	01/01/15
				0.92	56.20	01/03/14
				0.93	56.40	01/04/15
				0.92	56.20	01/05/15
				0.89	55.40	01/14/15
				0.93	55.00	02/01/15
	0.90	55.10	02/05/15			
	IEEE/IEC Head	0.87 (0.83-0.91)	44.00 (41.80-46.20)	0.85	45.00	01/03/15
0.85				45.40	01/05/15	
0.85				45.30	01/06/15	
0.84				43.60	02/04/15	
422	FCC Body	0.94 (0.89-0.98)	57.00 (54.10-59.80)	0.93	56.00	12/17/14
				0.92	56.00	12/18/14
				0.92	56.00	12/20/14
				0.92	56.30	12/21/14
				0.92	56.30	12/22/14
				0.93	56.80	12/23/14
0.94	55.40	12/29/14				

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
422	FCC Body	0.94 (0.89-0.98)	57.00 (54.10-59.80)	0.92	55.20	12/31/14
				0.93	55.90	01/01/15
				0.94	55.90	01/03/15
				0.94	56.10	01/04/15
				0.93	56.00	01/05/15
				0.95	54.80	02/01/15
				0.91	56.90	04/08/15
438	FCC Body	0.94 (0.89-0.99)	56.80 (54.00-59.70)	0.95	55.80	12/17/14
				0.93	55.80	12/18/14
				0.94	55.80	12/20/14
				0.93	56.10	12/21/14
				0.94	56.10	12/22/14
				0.95	55.60	12/25/14
				0.95	55.20	12/29/14
				0.94	55.60	01/01/15
				0.95	55.70	01/03/15
				0.95	55.90	01/04/15
				0.95	55.70	01/05/15
				0.96	54.60	02/01/15
450	FCC Body	0.94 (0.89-0.99)	56.70 (53.90-59.50)	0.96	55.50	12/16/14
				0.96	55.60	12/17/14
				0.94	55.70	12/18/14
				0.95	55.60	12/20/14
				0.94	55.90	12/21/14
				0.95	55.90	12/22/14
				0.95	56.40	12/23/14
				0.98	55.80	12/24/14
				0.96	55.50	12/25/14
				0.96	55.30	12/26/14
				0.96	55.00	12/29/14
				0.95	54.80	12/31/14
				0.95	55.50	01/01/15
				0.96	55.50	01/03/15
				0.96	55.80	01/04/15
				0.96	55.60	01/05/15
				0.95	55.50	01/06/15
				0.91	54.90	01/07/15
				0.92	55.00	01/08/15
				0.92	54.90	01/09/15
0.91	54.50	01/11/15				
0.92	54.70	01/12/15				

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
450	FCC Body	0.94 (0.89-0.99)	56.70 (53.90-59.50)	0.92	54.60	01/13/15
				0.93	54.80	01/14/15
				0.97	54.40	02/01/15
				0.93	54.50	02/02/15
				0.92	54.90	02/02/15
				0.94	54.80	02/03/15
				0.94	54.50	02/05/15
				0.93	56.50	04/08/15
				0.93	56.40	04/09/15
	0.94	58.30	05/06/15			
	IEEE/IEC Head	0.87 (0.83-0.91)	43.50 (41.30-45.70)	0.89	44.00	01/03/15
				0.89	44.50	01/05/15
				0.89	44.30	01/06/15
				0.90	44.10	01/07/15
				0.85	43.10	01/08/15
				0.83	42.70	01/09/15
				0.88	42.70	02/03/15
0.90				44.00	02/04/15	
454	FCC Body	0.94 (0.89-0.99)	56.70 (53.90-59.50)	0.96	55.40	12/16/14
				0.96	55.60	12/17/14
				0.95	55.60	12/18/14
				0.95	55.60	12/20/14
				0.95	55.90	12/22/14
				0.97	55.00	12/29/14
				0.96	55.40	01/01/15
				0.96	55.50	01/03/15
				0.97	55.70	01/04/15
				0.96	55.50	01/05/15
				0.93	54.70	01/14/15
				0.97	54.30	02/01/15
466	FCC Body	0.94 (0.89-0.99)	56.60 (53.80-59.50)	0.93	54.70	01/07/15
				0.93	54.30	01/11/15
				0.93	54.50	01/12/15
				0.94	54.30	01/13/15
				0.94	54.30	02/02/15
				0.95	56.30	04/08/15
				0.95	56.20	04/09/15
470	FCC Body	0.94 (0.89-0.99)	56.70 (53.80-59.50)	0.97	55.20	12/16/14
				0.97	55.40	12/17/14
				0.96	55.40	12/18/14

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
470	FCC Body	0.94 (0.89-0.99)	56.70 (53.80-59.50)	0.96	55.70	12/22/14
				0.98	55.10	12/24/14
				0.98	55.20	12/25/14
				0.98	54.80	12/29/14
				0.96	54.50	12/31/14
				0.97	55.20	01/01/15
				0.97	55.30	01/03/15
				0.98	55.50	01/04/15
				0.97	55.30	01/05/15
				0.94	54.50	01/14/15
				0.99	54.10	02/01/15
				0.95	56.30	04/08/15
481	FCC Body	0.94 (0.90-0.99)	56.60 (53.80-59.40)	0.94	54.50	01/07/15
				0.94	54.10	01/11/15
				0.94	54.30	01/12/15
				0.95	54.10	01/13/15
				0.95	54.40	01/14/15
				0.96	54.10	02/02/15
	0.96	56.00	04/09/15			
	IEEE/IEC Head	0.87 (0.83-0.92)	43.30 (41.20-45.50)	0.88	42.50	01/07/15
				0.87	42.50	01/08/15
0.91				43.20	02/05/15	
497	FCC Body	0.94 (0.90-0.99)	56.50 (53.70-59.30)	0.94	54.00	01/06/15
				0.95	54.30	01/07/15
				0.96	54.30	01/08/15
				0.96	54.20	01/09/15
				0.95	53.90	01/11/15
				0.96	54.00	01/12/15
				0.96	53.90	01/13/15
				0.97	54.20	01/14/15
				0.97	53.80	02/02/15
				0.98	53.80	02/05/15
				0.97	55.90	04/08/15
				0.97	55.80	04/09/15
512	FCC Body	0.94 (0.90-0.99)	56.50 (53.60-59.30)	0.97	54.10	01/07/15
				0.96	53.70	01/11/15
				0.97	53.90	01/12/15
				0.97	53.70	01/13/15
				0.98	54.00	01/14/15
				0.98	53.60	02/02/15

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
516	FCC Body	0.95 (0.90-0.99)	56.40 (53.60-59.30)	0.97	54.00	02/02/15
	IEEE/IEC Head	0.88 (0.83-0.92)	43.20 (41.00-45.30)	0.90	41.80	01/08/15
0.89				41.40	01/09/15	
520	FCC Body	0.95 (0.90-0.99)	56.40 (53.60-59.20)	0.98	54.00	02/02/15
	IEEE/IEC Head	0.88 (0.83-0.92)	43.10 (41.00-45.30)	0.91	41.80	01/08/15
0.89				41.40	01/09/15	
764	FCC Body	0.96 (0.92-1.01)	55.50 (52.70-58.30)	0.92	54.80	01/15/15
				0.92	54.90	01/16/15
				0.92	55.70	01/17/15
				0.94	55.50	01/18/15
				0.94	55.30	01/19/15
	IEEE/IEC Head	0.89 (0.85-0.94)	41.90 (39.80-44.00)	0.92	54.80	01/21/15
				0.86	41.60	12/22/14
				0.86	41.60	12/23/14
				0.86	41.40	12/23/14
				0.86	41.40	12/24/14
770	FCC Body	0.96 (0.92-1.01)	55.50 (52.70-58.20)	0.85	41.90	02/10/15
				0.92	54.80	01/16/15
				0.95	55.30	01/19/15
				0.93	54.70	01/21/15
				0.92	54.90	01/29/15
				0.92	54.90	01/30/15
775	FCC Body	0.97 (0.92-1.01)	55.40 (52.70-58.20)	0.93	54.80	02/16/15
				0.93	54.70	01/15/15
				0.93	54.80	01/16/15
				0.93	55.60	01/17/15
				0.95	55.40	01/18/15
				0.95	55.20	01/19/15
				0.95	55.00	01/20/15
				0.93	54.70	01/21/15
794	FCC Body	0.97 (0.92-1.02)	55.40 (52.60-58.10)	0.93	54.20	01/22/15
				0.95	54.10	01/22/15
				0.95	54.30	01/23/15
				0.95	54.30	01/24/15
				0.95	54.30	01/25/15
0.94	53.90	01/26/15				
0.94	53.90	01/27/15				

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
794	FCC Body	0.97 (0.92-1.02)	55.40 (52.60-58.10)	0.95	54.30	01/27/15
				0.95	54.30	01/28/15
				0.95	54.50	01/28/15
				0.95	54.50	01/29/15
809	FCC Body	0.97 (0.92-1.02)	55.30 (52.50-58.10)	0.96	53.90	01/22/15
				0.96	54.20	01/23/15
				0.96	54.20	01/24/15
				0.97	54.20	01/25/15
				0.97	54.20	01/26/15
				0.96	53.70	01/26/15
				0.96	53.70	01/27/15
				0.96	54.10	01/27/15
				0.96	54.10	01/28/15
				0.96	54.40	01/28/15
				0.96	54.40	01/29/15
				0.96	54.40	01/29/15
				0.96	54.60	01/29/15
				0.96	54.60	01/30/15
	0.96	55.40	01/31/15			
	IEEE/IEC Head	0.90 (0.85-0.94)	41.60 (39.60-43.70)	0.91	40.80	12/24/14
0.90				40.90	12/26/14	
0.90				40.30	12/29/14	
824	FCC Body	0.97 (0.92-1.02)	55.20 (52.50-58.00)	0.98	53.80	01/22/15
				0.98	54.00	01/23/15
				0.98	54.00	01/24/15
				0.98	54.10	01/25/15
				0.97	53.60	01/26/15
				0.97	53.60	01/27/15
				0.98	54.00	01/27/15
				0.98	54.00	01/28/15
				0.98	54.20	01/28/15
0.98	54.20	01/29/15				
835	FCC Body	0.97 (0.92-1.02)	55.20 (52.40-58.00)	0.99	54.10	01/15/15
				0.98	54.30	01/16/15
				0.99	55.10	01/17/15
				1.01	54.80	01/18/15
				1.01	54.70	01/19/15
				1.01	54.40	01/20/15
				0.99	54.20	01/21/15
				0.99	53.70	01/22/15
				0.96	54.10	01/22/15

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
835	FCC Body	0.97 (0.92-1.02)	55.20 (52.40-58.00)	0.99	54.00	01/23/15
				0.95	53.80	01/23/15
				0.99	53.90	01/24/15
				0.99	54.00	01/25/15
				0.96	53.90	01/25/15
				0.98	53.50	01/26/15
				0.96	53.90	01/26/15
				0.99	53.90	01/27/15
				0.96	53.80	01/27/15
				0.99	54.10	01/28/15
				0.99	54.30	01/29/15
				0.99	55.10	01/30/15
				0.99	54.90	02/16/15
	IEEE/IEC Head	0.90 (0.86-0.95)	41.50 (39.40-43.60)	0.93	40.70	12/22/14
				0.93	40.50	12/23/14
				0.93	40.60	12/26/14
0.92				40.00	12/29/14	
0.92				39.80	12/30/14	
0.92				39.90	12/31/14	
851	FCC Body	0.99 (0.94-1.04)	55.20 (52.40-57.90)	0.97	53.90	01/23/15
				0.97	53.70	01/23/15
				0.97	53.70	01/27/15
861	FCC Body	1.00 (0.95-1.05)	55.10 (52.40-57.90)	0.98	53.80	01/23/15
				0.98	53.60	01/23/15
				1.01	54.10	01/29/15
				1.02	54.60	02/16/15
869	FCC Body	1.01 (0.96-1.06)	55.10 (52.30-57.90)	0.99	53.80	01/22/15
				0.99	53.80	01/23/15
				0.99	53.50	01/23/15
				0.99	53.50	01/24/15
				1.00	53.70	01/25/15
				1.00	53.70	01/26/15
				0.99	53.60	01/26/15
				0.99	53.60	01/27/15
				0.99	53.50	01/27/15
	IEEE/IEC Head	0.94 (0.89-0.98)	41.50 (39.40-43.60)	0.95	39.60	12/29/14
				0.95	39.50	12/30/14
0.95				39.50	12/31/14	

TABLE 14 (continued)

Frequency (MHz)	Tissue Type	Conductivity Target (S/m)	Dielectric Constant Target	Conductivity Meas. (S/m)	Dielectric Constant Meas.	Tested Date
2412	FCC Body	1.91 (1.82 - 2.01)	52.80 (47.50 – 58.00)	1.92	51.80	01/29/15
				1.83	51.70	01/30/15
				1.86	51.10	01/31/15
	IEEE/IEC Head	1.77 (1.68-1.86)	39.30 (35.30 – 43.20)	1.76	35.70	01/28/15
				1.69	36.50	01/29/15
				1.75	36.40	02/02/15
2450	FCC Body	1.95 (1.85 – 2.05)	52.70 (50.10 – 55.30)	1.97	51.70	01/29/15
				1.88	51.60	01/30/15
				1.90	51.00	01/31/15
	IEEE/IEC Head	1.80 (1.71 – 1.89)	39.20 (35.30 – 43.10)	1.80	35.60	01/28/15
				1.73	36.40	01/29/15
				1.79	36.20	02/02/15

11.0 Environmental Test Conditions

The EME Laboratory’s ambient environment is well controlled resulting in very stable simulated tissue temperature and therefore stable dielectric properties. Simulated tissue temperature is measured prior to each scan to insure it is within +/- 2 °C of the temperature at which the dielectric properties were determined. The liquid depth within the phantom used for measurements was at least 15 cm. Additional precautions are routinely taken to ensure the stability of the simulated tissue such as covering the phantoms when scans are not actively in process in order to minimize evaporation. The lab environment is continuously monitored. The Table below presents the range and average environmental conditions during the SAR tests reported herein:

TABLE 15

	Target	Measured
Ambient Temperature	18 – 25 °C	Range: 21.4 – 23.4°C Avg. 22.7 °C
Relative Humidity	30 – 70 %	Range: 42.3 – 57.3 % Avg. 46.8 %
Tissue Temperature	NA	Range: 18.8 – 22.1°C Avg. 20.7°C

Relative humidity target range is a recommended target

The EME Lab RF environment uses a Spectrum Analyzer to monitor for extraneous large signal RF contaminants that could possibly affect the test results. If such unwanted signals are discovered the SAR scans are repeated.

12.0 DUT Test Methodology

12.1 Measurements

SAR measurements were performed using the DASY system described in section 8.0 using zoom scans and fast SAR. Oval flat phantoms filled with applicable simulated tissue were used for body and face testing.

The Table below includes the step sizes and resolution of area and zoom scans per KDB 865664 requirements.

TABLE 16

Description		≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: ΔxArea, ΔyArea		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
		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 ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: ΔxZoom, ΔyZoom		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: ΔzZoom(n)	≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
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 reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 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.			

12.2 DUT Configuration(s)

The DUT is a portable device operational at the body and face as described in section 6.0 while using the applicable accessories listed in section 7.0. All accessories listed in section 7.0 of this report were considered when implementing the guidelines specified in KDB 643646.

12.3 DUT Positioning Procedures

The positioning of the device for each body location is described below and illustrated in Appendix H.

12.3.1 Body

The DUT was positioned in normal use configuration against the phantom with the offered body worn accessories as well as with the offered audio accessories as applicable.

12.3.2 Head

Not applicable.

12.3.3 Face

The DUT was positioned with its’ front and back sides separated 2.5cm from the phantom.

12.4 DUT Test Channels:

The following equations were used to determine the number of test channels for the DUT. The number of test channels was determined by using the following IEEE 1528 equation.

$$N_c = 2 * roundup[10 * (f_{high} - f_{low}) / f_c] + 1$$

Where

N_c = Number of channels

F_{high} = Upper channel

F_{low} = Lower channel

F_c = Center channel

12.5 SAR Result Scaling Methodology

The calculated 1-gram and 10-gram averaged SAR results indicated as “Max Calc. 1g-SAR” and “Max Calc.10g-SAR” in the data Tables is determined by scaling the measured SAR to account for power leveling variations and power slump. A Table and graph of output power versus time is provided in Appendix H. For this device the “Max Calc. 1g-SAR” and “Max Calc.10g-SAR” are scaled using the following formula:

$$Max_Calc = SAR_meas \cdot 10^{\frac{-Drift}{10}} \cdot \frac{P_max}{P_int} \cdot DC$$

P_{max} = Maximum Power (W)

P_{int} = Initial Power (W)

Drift = DASY drift results (dB)

SAR_{meas} = Measured 1-g or 10-g Avg. SAR (W/kg)

DC = Transmission mode duty cycle in % where applicable

50% duty cycle is applied for PTT operation

Note: for conservative results, the following are applied:

If P_{int} > P_{max}, then P_{max}/P_{int} = 1.

Drift = 1 for positive drift

Additional SAR scaling was applied using the methodologies outlined in FCC KDB 865664 using tissue sensitivity values. SAR was scaled for conditions where the tissue permittivity was measured above the nominal target and for tissue

conductivity that was measured below the nominal target. Negative or reduced SAR scaling is not permitted.

12.6 DUT Test Plan:

The guidelines and requirements outlined in section 4.0 were used to assess compliance of this device. All modes of operation identified in section 6.0 were considered during the development of the test plan.

LMR tests were performed in CW mode and 50% duty cycle was applied to PTT configurations in the final results.

WLAN tests were performed in 802.11b mode using a duty cycle of 99.87% with results scaled to 100%.

Standalone and simultaneous BT testing were assessed in sections 13.15 and 14.0 per the guidelines of KDB 447498.

13.0 DUT Test Data

13.1 LMR assessments at the Body for 150.8-173.4 MHz band

Battery PMNN4403B was selected as the default battery for assessments at the Body because it is the thinnest battery (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (150.8-173.4 MHz) which are listed in Table 17. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 17

Test Freq (MHz)	Power (W)
150.8000	6.43
156.4500	6.45
162.1000	6.38
167.7500	6.31
173.4000	6.30

Assessments at the Body with Body worn HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 17 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 18

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.52	-0.28	1.94	0.73	1.05	0.39	MO-AB-150109-10
				162.1000							
				167.7500							
				173.4000							
NAR6593A	PMNN4403B	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.52	-0.31	1.35	0.60	0.73	0.33	MO-AB-150109-11
				162.1000							
				167.7500							
				173.4000							
NAR6594A	PMNN4403B	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.52	-0.21	2.02	0.78	1.07	0.42	MO-AB-150109-12
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	PMNN4403B	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.55	-0.26	1.83	0.75	0.98	0.40	MO-AB-150109-13
				162.1000							
				167.7500							
				173.4000							
Assessment of Additional Batteries											
NAR6594A	NNTN7034B	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.59	-0.32	4.77	1.59	2.57	0.86	MO-AB-150109-14
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN7573A	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.57	-0.34	4.88	1.70	2.65	0.92	CcC(Tiong)-AB-150205-03
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN7038B	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.52	-0.28	1.84	0.78	0.99	0.42	MO-AB-150109-16
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN8092A	HLN6875A	NNTN8203A	150.8000							
				156.4500	6.53	-0.25	1.99	0.81	1.07	0.44	CcC(Tiong)-AB-150112-02
				162.1000							
				167.7500							
				173.4000							

Assessments at the Body with Body worn NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 17 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 19

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.55	-0.08	1.66	0.90	0.85	0.46	CcC(Tiong)-AB-150112-03
				162.1000							
				167.7500							
				173.4000							
NAR6593A	PMNN4403B	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.56	-0.31	1.84	1.02	0.99	0.55	CcC(Tiong)-AB-150112-04
				162.1000							
				167.7500							
				173.4000							
NAR6594A	PMNN4403B	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.57	-0.2	2.32	1.24	1.22	0.65	CcC(Tiong)-AB-150112-05
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	PMNN4403B	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.56	-0.24	2.03	1.12	1.08	0.60	CcC(Tiong)-AB-150112-06
				162.1000							
				167.7500							
				173.4000							
Assessment of Additional Batteries											
NAR6594A	NNTN7034B	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.47	-0.28	1.76	1.09	0.96	0.59	CcC(Tiong)-AB-150112-07
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN7573A	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.51	-0.33	1.60	1.03	0.88	0.56	MO-AB-150112-08
				162.1000							
				167.7500							
				173.4000							

TABLE 19 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6594A	NNTN7038B	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.60	-0.2	2.22	1.20	1.16	0.63	MO-AB-150112-09
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN8092A	NTN8266B	NNTN8203A	150.8000							
				156.4500	6.60	-0.28	2.25	1.21	1.20	0.65	MO-AB-150112-10
				162.1000							
				167.7500							
				173.4000							

Assessments at the Body with Body worn PMLN5657B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 17 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 20

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B	NNTN8203A	150.8000							
				156.4500	6.54	-0.36	0.35	0.27	0.19	0.15	MO-AB-150112-11
				162.1000							
				167.7500							
				173.4000							
NAR6593A	PMNN4403B	PMLN5657B	NNTN8203A	150.8000							
				156.4500	6.56	-0.42	0.34	0.27	0.19	0.15	MO-AB-150112-12
				162.1000							
				167.7500							
				173.4000							
NAR6594A	PMNN4403B	PMLN5657B	NNTN8203A	150.8000							
				156.4500	6.54	-0.28	0.39	0.30	0.21	0.16	MO-AB-150112-13
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	PMNN4403B	PMLN5657B	NNTN8203A	150.8000							
				156.4500	6.57	-0.31	0.40	0.32	0.22	0.17	MO-AB-150112-14
				162.1000							
				167.7500							
				173.4000							

TABLE 20 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Assessment of Additional Batteries											
PMAT4001A	NNTN7038B	PMLN5657B	NNTN8203A	150.8000							
				156.4500	6.60	-0.34	0.41	0.32	0.22	0.17	MO-AB-150112-15
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	NNTN8092A	PMLN5657B	NNTN8203A	150.8000							
				156.4500	6.52	-0.4	0.39	0.30	0.21	0.17	MO-AB-150112-16
				162.1000							
				167.7500							
				173.4000							

Assessments at the Body with Body worn PMLN5709A and NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 17 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 21

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.54	-0.23	0.82	0.56	0.43	0.30	MO-AB-150112-17
				162.1000							
				167.7500							
				173.4000							
NAR6593A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.59	-0.34	0.82	0.56	0.44	0.30	MO-AB-150112-18
				162.1000							
				167.7500							
				173.4000							
NAR6594A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.58	-0.17	1.01	0.68	0.53	0.36	CcC(Tiong)-AB-150113-02
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.57	-0.25	0.98	0.67	0.52	0.35	CcC(Tiong)-AB-150113-03
				162.1000							
				167.7500							
				173.4000							

TABLE 21 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Assessment of Additional Batteries											
NAR6594A	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.53	-0.34	0.94	0.68	0.51	0.37	CcC(Tiong)-AB-150113-04
				162.1000							
				167.7500							
NAR6594A	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.48	-0.25	1.00	0.72	0.54	0.39	CcC(Tiong)-AB-150113-05
				162.1000							
				167.7500							
NAR6594A	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.57	-0.26	1.06	0.71	0.57	0.38	CcC(Tiong)-AB-150113-06
				162.1000							
				167.7500							
NAR6594A	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	150.8000							
				156.4500	6.48	-0.29	1.07	0.72	0.58	0.39	CcC(Tiong)-AB-150113-07
				162.1000							
				167.7500							
				173.4000							

Assessments at the Body with Body worn PMLN5709A and HLN6875A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 17 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 22

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.56	-0.24	0.98	0.49	0.52	0.26	MO-AB-150113-08
				162.1000							
				167.7500							
				173.4000							

TABLE 22 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6593A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.58	-0.32	0.74	0.40	0.40	0.21	MO-AB-150113-09
				162.1000							
				167.7500							
				173.4000							
NAR6594A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.53	-0.24	1.31	0.62	0.70	0.33	MO-AB-150113-11
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.56	-0.29	1.14	0.57	0.61	0.30	MO-AB-150113-12
				162.1000							
				167.7500							
				173.4000							
Assessment of Additional Batteries											
NAR6594A	NNTN7034B	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.60	-0.32	4.58	1.52	2.47	0.82	MO-AB-150113-13
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN7573A	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.56	-0.34	4.37	1.55	2.38	0.84	MO-AB-150113-14
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN7038B	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.60	-0.22	1.04	0.52	0.55	0.27	MO-AB-150113-15
				162.1000							
				167.7500							
				173.4000							
NAR6594A	NNTN8092A	PMLN5709A tested w/ HLN6875A	NNTN8203A	150.8000							
				156.4500	6.60	-0.26	1.23	0.57	0.65	0.30	MO-AB-150113-16
				162.1000							
				167.7500							
				173.4000							

Assessments at the Body with Body worn PMLN5657B and NTN5243A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 17 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 23

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	150.8000							
				156.4500	6.57	-0.29	1.32	0.59	0.71	0.32	CcC(Tiong)-AB-150115-02
				162.1000							
				167.7500							
				173.4000							
NAR6593A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	150.8000							
				156.4500	6.58	-0.3	1.33	0.59	0.71	0.31	CcC(Tiong)-AB-150115-03
				162.1000							
				167.7500							
				173.4000							
NAR6594A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	150.8000							
				156.4500	6.59	-0.24	1.53	0.67	0.81	0.36	CcC(Tiong)-AB-150115-04
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	150.8000							
				156.4500	6.57	-0.26	1.64	0.67	0.87	0.36	CcC(Tiong)-AB-150115-05
				162.1000							
				167.7500							
				173.4000							
Assessment of Additional Batteries											
PMAT4001A	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	150.8000							
				156.4500	6.52	-0.23	1.56	0.68	0.83	0.37	MO-AB-150115-06
				162.1000							
				167.7500							
				173.4000							
PMAT4001A	NNTN8092A	PMLN5657B tested w/ NTN5243A	NNTN8203A	150.8000							
				156.4500	6.60	-0.31	1.46	0.64	0.78	0.34	MO-AB-150115-07
				162.1000							
				167.7500							
				173.4000							

Assessment at the Body with other audio accessories

Assessment per “KDB 643646 Body SAR Test Consideration for Audio Accessories without Built-in Antenna; Sec 1, A. when overall < 4.0 W/kg, SAR tested for that audio accessory is not necessary.” This was applicable to all remaining accessories.

Assessment of wireless BT configuration

Assessment using the overall highest SAR configuration at the body from above without an audio accessory attached. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 24

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6594A	NNTN7573A	HLN6875A	NONE	150.8000							
				156.4500	6.58	-0.24	6.66	2.19	3.53	1.16	MO-AB-150207-07
				162.1000							
				167.7500							
				173.4000							

13.2 LMR assessments at the Body for 406.1-470 MHz band

Battery PMNN4403B was selected as the default battery for assessments at the Body because it is the thinnest battery (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (406.1-470 MHz) which are listed in Table 25. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 25

Test Freq (MHz)	Power (W)
406.1250	5.68
422.1000	5.67
438.1000	5.60
454.0000	5.59
470.0000	5.67

Assessments at the Body with Body worn HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 25 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 26

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	HLN6875A	NNTN8203A	406.1250	5.58	-0.17	3.15	2.27	1.67	1.21	MO-AB-141216-02
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	PMNN4403B	HLN6875A	NNTN8203A	406.1250	5.57	-0.22	4.40	3.19	2.37	1.72	MO-AB-141216-03
				422.1000							
				438.1000							
				454.0000							
				470.0000							

TABLE 26 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAT4001A	PMNN4403B	HLN6875A	NNTN8203A	406.1250	5.58	-0.14	4.58	3.32	2.42	1.75	MO-AB-141216-04
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	PMNN4403B	HLN6875A	NNTN8203A	406.1250	5.57	-0.20	6.09	4.42	3.26	2.37	MO-AB-141216-05
				422.1000							
				438.1000							
				454.0000							
				470.0000							
Assessment of Additional Batteries											
FAF5259A	NNTN7034B	HLN6875A	NNTN8203A	406.1250	5.58	-0.19	5.25	3.77	2.80	2.01	MO-AB-141216-06
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN7573A	HLN6875A	NNTN8203A	406.1250	5.58	-0.22	5.36	3.91	2.88	2.10	MO-AB-141216-07
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN7038B	HLN6875A	NNTN8203A	406.1250	5.57	-0.20	6.47	4.70	3.47	2.52	MO-AB-141216-08
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN8092A	HLN6875A	NNTN8203A	406.1250	5.61	-0.13	6.00	4.38	3.14	2.29	MO-AB-141216-09
				422.1000							
				438.1000							
				454.0000							
				470.0000							

Assessments at the Body with Body worn NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 25 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 27

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	NTN8266B	NNTN8203A	406.1250	5.65	-0.21	6.70	4.55	3.55	2.41	MO-AB-141216-10
				422.1000							
				438.1000	5.62	-0.42	9.33	6.38	5.21	3.56	MO-AB-141217-02
				454.0000	5.66	-0.41	9.19	6.28	5.09	3.48	MO-AB-141216-12
				470.0000	5.65	-0.38	8.33	5.61	4.59	3.09	MO-AB-141216-11
PMAS4001A	PMNN4403B	NTN8266B	NNTN8203A	406.1250	5.60	-0.31	11.00	7.56	6.01	4.13	MO-AB-141217-03
				422.1000	5.68	-0.56	9.53	6.56	5.44	3.74	MO-AB-141217-04
				438.1000	5.63	-0.32	8.79	5.98	4.79	3.26	MO-AB-141217-05
				454.0000	5.59	-0.20	7.39	5.02	3.95	2.68	MO-AB-141217-06
				470.0000	5.65	-0.37	6.69	4.53	3.67	2.49	MO-AB-141217-07
PMAT4001A	PMNN4403B	NTN8266B	NNTN8203A	406.1250	5.65	-0.21	10.60	7.22	5.61	3.82	MO-AB-141217-08
				422.1000	5.60	-0.20	13.00	8.94	6.93	4.76	MO-AB-141217-09
				438.1000	5.61	-0.51	9.65	6.62	5.51	3.78	MO-AB-141217-10
				454.0000	5.62	-0.70	9.57	6.50	5.70	3.87	MO-AB-141217-11
				470.0000	5.66	-0.33	7.01	4.71	3.81	2.56	MO-AB-141217-12
FAF5259A	PMNN4403B	NTN8266B	NNTN8203A	406.1250	5.65	-0.14	13.50	9.30	7.03	4.84	MO-AB-141217-13
				422.1000	5.60	-0.48	11.90	8.05	6.76	4.58	MO-AB-141218-02
				438.1000	5.63	-0.32	11.10	7.53	6.05	4.10	MO-AB-141218-03
				454.0000	5.60	-0.19	8.81	5.94	4.68	3.16	MO-AB-141218-04
				470.0000	5.68	-0.34	6.35	4.27	3.45	2.32	MO-AB-141218-05
Assessment of Additional Batteries											
KT000026A01				406.1250							
				422.1000							
				438.1000	5.60	-0.47	10.30	6.91	5.84	3.92	MO-AB-141218-06
				454.0000							
				470.0000							
PMAS4001A	NNTN7034B	NTN8266B	NNTN8203A	406.1250	5.61	-0.35	11.20	7.62	6.17	4.20	MO-AB-141218-07
				422.1000	5.64	-0.57	10.10	6.74	5.82	3.88	MO-AB-141218-08
				438.1000							
				454.0000							
				470.0000							
PMAT4001A				406.1250	5.67	-0.25	9.06	6.02	4.82	3.21	MO-AB-141218-10
				422.1000	5.66	-0.22	13.00	8.67	6.89	4.59	MO-AB-141218-09
				438.1000	5.62	-0.52	10.30	6.88	5.89	3.93	MO-AB-141218-11
				454.0000							
				470.0000							
FAF5259A				406.1250	5.58	-0.17	12.70	8.50	6.75	4.51	MO-AB-141220-02
				422.1000	5.67	-0.54	12.10	8.13	6.89	4.63	MO-AB-141220-03
				438.1000							
				454.0000							
				470.0000							

TABLE 27 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7573A	NTN8266B	NNTN8203A	406.1250							
				422.1000	5.67	-0.19	11.30	7.36	5.93	3.86	MO-AB-141220-05
				438.1000	5.64	-0.52	10.80	6.94	6.15	3.95	MO-AB-141220-04
				454.0000	5.66	-0.66	10.10	6.38	5.92	3.74	MO-AB-141220-06
				470.0000							
PMAS4001A				406.1250	5.66	-0.21	10.10	6.63	5.34	3.50	MO-AB-141220-07
				422.1000	5.68	-0.31	9.95	6.47	5.36	3.49	MO-AB-141220-08
				438.1000							
				454.0000							
				470.0000							
PMAT4001A				406.1250	5.66	-0.22	10.10	6.66	5.35	3.53	MO-AB-141220-10
				422.1000	5.69	-0.25	12.40	8.12	6.58	4.31	MO-AB-141220-09
				438.1000	5.68	-0.43	9.75	6.38	5.40	3.53	MO-AB-141220-11
				454.0000							
				470.0000							
FAF5259A	406.1250	5.63	-0.17	12.40	8.07	6.53	4.25	MO-AB-141221-02			
	422.1000	5.64	-0.32	11.80	7.69	6.42	4.18	MO-AB-141221-03			
	438.1000										
	454.0000										
	470.0000										
KT000026A01	NNTN7038B	NTN8266B	NNTN8203A	406.1250							
				422.1000							
				438.1000	5.59	-0.40	9.85	6.70	5.51	3.75	MO-AB-141221-04
				454.0000							
				470.0000							
PMAS4001A				406.1250	5.61	-0.31	11.20	7.69	6.11	4.20	MO-AB-141221-05
				422.1000	5.63	-0.52	9.63	6.59	5.49	3.76	MO-AB-141221-06
				438.1000							
				454.0000							
				470.0000							
PMAT4001A				406.1250	5.61	-0.10	10.20	6.99	5.30	3.63	MO-AB-141221-08
				422.1000	5.66	-0.19	13.10	8.92	6.89	4.69	MO-AB-141221-07
				438.1000	5.62	-0.46	9.97	6.80	5.62	3.83	MO-AB-141221-09
				454.0000							
				470.0000							
FAF5259A	406.1250	5.70	-0.15	14.20	9.63	7.35	4.98	KKL-AB-150114-09			
	422.1000	5.65	-0.51	11.90	8.13	6.75	4.61	MO-AB-141222-02			
	438.1000	5.61	-0.30	11.10	7.61	6.04	4.14	MO-AB-141222-03			
	454.0000	5.64	-0.25	8.11	5.51	4.34	2.95	MO-AB-141222-04			
	470.0000	5.65	-0.30	6.76	4.51	3.65	2.44	MO-AB-141222-05			

TABLE 27 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN8092A	NTN8266B	NNTN8203A	406.1250							
				422.1000							
				438.1000	5.64	-0.45	10.10	6.84	5.66	3.83	MO-AB-141222-06
				454.0000							
				470.0000							
PMAS4001A				406.1250	5.62	-0.23	11.10	7.60	5.94	4.06	MO-AB-141222-07
				422.1000	5.64	-0.57	9.58	6.50	5.52	3.75	MO-AB-141222-08
				438.1000							
				454.0000							
				470.0000							
PMAT4001A				406.1250	5.64	-0.13	9.63	6.53	5.01	3.40	MO-AB-141222-10
				422.1000	5.62	-0.20	12.80	8.71	6.80	4.63	MO-AB-141222-09
				438.1000	5.62	-0.45	9.78	6.68	5.50	3.76	MO-AB-141222-11
				454.0000							
				470.0000							
FAF5259A	406.1250	5.64	-0.09	13.50	9.16	6.96	4.73	MO-AB-141222-12			
	422.1000	5.60	-0.55	11.50	7.83	6.64	4.52	MO-AB-141223-02			
	438.1000										
	454.0000										
	470.0000										

Assessments at the Body with Body worn PMLN5657B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 25 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 28

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B	NNTN8203A	406.1250	5.59	-0.22	1.58	1.17	0.85	0.63	MO-AB-141223-03
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	PMNN4403B	PMLN5657B	NNTN8203A	406.1250	5.63	-0.38	2.92	2.17	1.61	1.20	MO-AB-141223-04
				422.1000							
				438.1000							
				454.0000							
				470.0000							

TABLE 28 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAT4001A	PMNN4403B	PMLN5657B	NNTN8203A	406.1250	5.61	-0.06	2.63	1.95	1.35	1.00	MO-AB-141223-05
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	PMNN4403B	PMLN5657B	NNTN8203A	406.1250	5.61	-0.10	3.87	2.87	2.01	1.49	MO-AB-141223-06
				422.1000							
				438.1000							
				454.0000							
				470.0000							
Assessment of Additional Batteries											
FAF5259A	NNTN7038B	PMLN5657B	NNTN8203A	406.1250	5.66	-0.09	3.78	2.80	1.94	1.44	MO-AB-141223-07
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN8092A	PMLN5657B	NNTN8203A	406.1250	5.67	-0.28	3.72	2.73	1.99	1.46	CcC-AB-141224-02
				422.1000							
				438.1000							
				454.0000							
				470.0000							

Assessments at the Body with Body worn PMLN5709A and NTN8266B
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 25 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 29

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250	5.65	-0.28	3.94	2.73	2.12	1.47	KKL-AB-150205-10
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250	5.63	-0.37	6.54	4.58	3.61	2.52	KY-AB-141224-04
				422.1000							
				438.1000							
				454.0000							
				470.0000	5.63	-0.41	3.26	2.28	1.81	1.27	KY-AB-141224-05

TABLE 29 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAT4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250	5.70	-0.25	5.63	3.91	2.98	2.07	KKL-AB-150205-12
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250	5.58	-0.16	7.52	5.27	3.99	2.79	MO-AB-141225-02
				422.1000							
				438.1000	5.57	-0.35	6.38	4.49	3.54	2.49	MO-AB-141225-04
				454.0000	5.70	-0.31	4.84	3.40	2.60	1.83	KKL-AB-150114-10
				470.0000	5.62	-0.51	7.19	5.06	4.10	2.89	MO-AB-141225-03
Assessment of Additional Batteries											
FAF5259A	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250							
				422.1000							
				438.1000							
				454.0000							
				470.0000	5.70	-0.39	3.67	2.64	2.01	1.44	KKL-AB-150114-11
FAF5259A	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250							
				422.1000							
				438.1000							
				454.0000							
				470.0000	5.70	-0.36	3.40	2.44	1.85	1.33	KKL-AB-150114-12
FAF5259A	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250							
				422.1000							
				438.1000							
				454.0000							
				470.0000	5.70	-0.26	3.79	2.68	2.01	1.42	KKL-AB-150114-13
FAF5259A	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	406.1250							
				422.1000							
				438.1000							
				454.0000							
				470.0000	5.70	-0.44	3.83	2.69	2.12	1.49	KKL-AB-150114-14

Assessments at the Body with Body worn PMLN5709A and HLN6875A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 25 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 30

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.62	-0.12	2.66	1.94	1.39	1.01	MO-AB-141225-09
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.61	-0.29	3.49	2.54	1.90	1.38	MO-AB-141225-10
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAT4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.63	-0.25	3.76	2.76	2.02	1.48	MO-AB-141225-11
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.60	-0.24	5.03	3.68	2.71	1.98	MO-AB-141225-12
				422.1000							
				438.1000							
				454.0000							
				470.0000							
Assessment of Additional Batteries											
FAF5259A	NNTN7034B	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.62	-0.21	3.46	2.54	1.84	1.35	MO-AB-141225-13
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN7573A	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.64	-0.15	4.22	1.84	2.21	0.96	MO-AB-141225-14
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN7038B	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.60	-0.19	5.22	3.80	2.78	2.02	MO-AB-141226-02
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN8092A	PMLN5709A tested w/ HLN6875A	NNTN8203A	406.1250	5.62	-0.15	4.63	3.37	2.43	1.77	MO-AB-141226-03
				422.1000							
				438.1000							
				454.0000							
				470.0000							

Assessments at the Body with Body worn PMLN5657B and NTN5243A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 27 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 31

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	406.1250	5.67	-0.41	3.00	2.05	1.66	1.13	KKL-AB-141229-02
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	406.1250	5.67	-0.35	4.61	3.19	2.51	1.74	KKL-AB-141229-03
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAT4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	406.1250	5.68	-0.18	4.50	3.05	2.35	1.60	KKL-AB-141229-05
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	406.1250	5.70	-0.19	6.23	4.27	3.25	2.23	MO-AB-141229-06
				422.1000							
				438.1000							
				454.0000							
				470.0000							
Assessment of Additional Batteries											
FAF5259A	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	406.1250	5.68	-0.19	6.17	4.29	3.23	2.25	MO-AB-141229-07
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN8092A	PMLN5657B tested w/ NTN5243A	NNTN8203A	406.1250	5.70	-0.16	5.50	3.78	2.85	1.96	MO-AB-141229-08
				422.1000							
				438.1000							
				454.0000							
				470.0000							

Assessment at the Body with other audio accessories

Assessment of additional audio accessories per “KDB 643646 Body SAR Test Consideration for Audio Accessories without Built-in Antenna” Section 1, A. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 32

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5259A	NNTN7038B	NTN8266B	NNTN8575A	406.1250	5.70	-0.15	14.30	9.75	7.40	5.05	MO-AB-141229-09
				422.1000	5.70	-0.48	11.70	7.93	6.53	4.43	MO-AB-141229-10
				438.1000	5.68	-0.28	11.20	7.56	5.99	4.05	MO-AB-141229-11
				454.0000	5.68	-0.22	8.69	5.86	4.59	3.09	MO-AB-141229-12
				470.0000	5.68	-0.32	6.94	4.66	3.75	2.52	MO-AB-141229-13
FAF5259A	NNTN7038B	NTN8266B	PMMN4084A	406.1250	5.69	-0.15	13.80	9.49	7.16	4.92	MO-AB-141229-14
				422.1000	5.69	-0.43	11.90	8.16	6.58	4.51	MO-AB-141229-15
				438.1000	5.68	-0.29	11.10	7.62	5.95	4.09	MO-AB-141229-16
				454.0000	5.69	-0.24	8.69	5.87	4.60	3.11	MO-AB-141229-17
				470.0000	5.60	-0.30	6.67	4.46	3.64	2.43	KKL-AB-141231-04
FAF5259A	NNTN7038B	NTN8266B	PMMN4062A	406.1250	5.69	-0.13	13.20	9.07	6.81	4.68	KKL-AB-141231-05
				422.1000	5.67	-0.49	10.70	7.31	6.02	4.11	KKL-AB-141231-06
				438.1000	5.64	-0.30	10.70	7.22	5.79	3.91	MO-AB-150101-02
				454.0000	5.63	-0.24	8.83	5.88	4.72	3.15	MO-AB-150101-03
				470.0000	5.70	-0.30	6.89	4.62	3.69	2.48	MO-AB-150101-04
FAF5259A	NNTN7038B	NTN8266B	NMN6274A	406.1250	5.66	-0.19	12.80	8.53	6.73	4.49	MO-AB-150101-05
				422.1000	5.69	-0.44	11.90	8.05	6.60	4.46	MO-AB-150101-06
				438.1000	5.65	-0.21	10.40	7.00	5.51	3.71	MO-AB-150101-07
				454.0000	5.66	-0.19	7.64	5.10	4.02	2.68	MO-AB-150101-08
				470.0000	5.70	-0.29	6.40	4.24	3.42	2.27	MO-AB-150101-09
FAF5259A	NNTN7038B	NTN8266B	PMLN5111A	406.1250	5.67	-0.12	14.00	9.59	7.23	4.96	MO-AB-150101-10
				422.1000	5.64	-0.36	10.90	7.44	5.98	4.08	MO-AB-150101-11
				438.1000	5.65	-0.23	10.60	7.16	5.64	3.81	MO-AB-150103-02
				454.0000	5.66	-0.15	8.39	5.66	4.37	2.95	MO-AB-150103-03
				470.0000	5.70	-0.27	6.67	4.48	3.55	2.38	MO-AB-150103-04
FAF5259A	NNTN7038B	NTN8266B	PMLN5101A	406.1250	5.67	-0.05	13.10	8.93	6.66	4.54	MO-AB-150103-05
				422.1000	5.70	-0.35	11.20	7.60	6.07	4.12	MO-AB-150103-06
				438.1000	5.64	-0.23	10.70	7.30	5.70	3.89	MO-AB-150103-07
				454.0000	5.66	-0.18	8.46	5.73	4.44	3.01	MO-AB-150103-08
				470.0000	5.70	-0.26	6.64	4.44	3.52	2.36	MO-AB-150103-09
FAF5259A	NNTN7038B	NTN8266B	PMLN5275C	406.1250	5.70	-0.11	13.90	9.52	7.13	4.88	MO-AB-150103-10
				422.1000	5.70	-0.41	12.20	8.33	6.70	4.58	MO-AB-150103-11
				438.1000	5.63	-0.20	11.00	7.43	5.83	3.94	MO-AB-150104-02
				454.0000	5.66	-0.18	8.76	5.87	4.60	3.08	MO-AB-150104-03
				470.0000	5.70	-0.26	6.94	4.63	3.68	2.46	MO-AB-150104-04
FAF5259A	NNTN7038B	NTN8266B	RLN5882A	406.1250	5.69	-0.15	13.60	9.39	7.05	4.87	MO-AB-150104-05
				422.1000	5.70	-0.32	10.80	7.34	5.81	3.95	MO-AB-150104-06
				438.1000	5.66	-0.19	10.20	6.87	5.37	3.61	MO-AB-150104-07
				454.0000	5.70	-0.14	8.10	5.43	4.18	2.80	MO-AB-150104-08
				470.0000	5.70	-0.24	6.86	4.59	3.63	2.43	MO-AB-150104-09
FAF5259A	NNTN7038B	NTN8266B	RMN5058A	406.1250	5.69	-0.08	13.20	9.11	6.74	4.65	MO-AB-150104-10
				422.1000	5.68	-0.36	11.10	7.55	6.05	4.12	MO-AB-150104-11
				438.1000	5.68	-0.21	10.70	7.23	5.64	3.81	MO-AB-150104-12
				454.0000	5.70	-0.23	7.77	5.24	4.10	2.76	CcC-AB-150105-02
				470.0000	5.70	-0.15	8.17	5.47	4.23	2.83	CcC-AB-150105-03

TABLE 32 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5259A	NNTN7038B	NTN8266B	NNTN7869A tested w/ ZMN6038ASP01	406.1250	5.69	-0.34	11.60	7.95	6.28	4.31	CcC-AB-150105-04
				422.1000	5.69	-0.31	9.62	6.55	5.18	3.52	KKL-AB-150105-05
				438.1000	5.69	-0.25	8.48	5.72	4.50	3.03	KKL-AB-150105-06
				454.0000	5.67	-0.20	7.83	5.25	4.12	2.76	KKL-AB-150105-07
				470.0000	5.70	-0.34	6.05	4.05	3.27	2.19	KKL-AB-150105-08
FAF5259A	NNTN7038B	NTN8266B	HMN4104B	406.1250	5.70	-0.11	13.40	9.05	6.87	4.64	KKL-AB-150201-02
				422.1000	5.70	-0.49	12.80	8.56	7.16	4.79	KKL-AB-150201-03
				438.1000	5.70	-0.31	10.80	7.26	5.80	3.90	KKL-AB-150201-04
				454.0000	5.70	-0.23	8.42	5.59	4.44	2.95	KKL-AB-150201-05
				470.0000	5.70	-0.29	7.18	4.75	3.84	2.54	KKL-AB-150201-06

Assessment of wireless BT configuration

Assessment using the overall highest SAR configuration at the body from above without an audio accessory attached. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 33

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5259A	NNTN7038B	NTN8266B	NONE	406.1250	5.70	-0.17	14.10	9.73	7.33	5.06	KKL-AB-150105-09
				422.1000	5.70	-0.47	13.10	8.96	7.30	4.99	KKL-AB-150105-10
				438.1000	5.68	-0.28	12.20	8.31	6.53	4.45	KKL-AB-150105-11
				454.0000	5.69	-0.22	9.50	6.48	5.01	3.41	KKL-AB-150105-12
				470.0000	5.70	-0.30	7.72	5.21	4.14	2.79	KKL-AB-150105-13

Assessment of PSM configuration

Battery NNTN7034B was selected as the default battery for assessments at the Body with Public Safety Microphone (PSM) because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (406.1-470 MHz) which are listed in Table 34. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 34

Test Freq (MHz)	Power (W)
406.1250	5.54
422.1000	5.55
438.1000	5.54
454.0000	5.54
470.0000	5.66

Assessment of offered PSM audio accessories per KDB 643646. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 35

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#			
PMAE4065A	NNTN7034B	4205823V08 REV.N	PMMN4059B	406.1250										
				422.1000	5.42	-0.24	4.77	3.09	2.65	1.72	MO-AB-150408-04			
				438.1000										
				454.0000										
FAF5259A				NNTN7034B	4205823V08 REV.N	PMMN4059B	470.0000	5.42	-0.30	6.43	4.46	3.62	2.51	MO-AB-150408-03
							406.1250							
							422.1000	5.42	-0.22	4.87	3.16	2.69	1.75	MO-AB-150408-07
							438.1000							
PMAE4065A	NNTN7034B	4205823V08 REV.N	PMMN4060B				454.0000	5.43	-0.23	8.75	6.02	4.84	3.33	KKL-AB-150409-15
							470.0000	5.43	-0.31	7.27	5.04	4.10	2.84	MO-AB-150408-05
							406.1250							
							422.1000							
FAF5259A				NNTN7034B	4205823V08 REV.N	PMMN4060B	438.1000							
							454.0000							
							470.0000	5.43	-0.23	6.08	3.81	3.36	2.11	KKL-AB-150408-09
							406.1250							
PMAE4065A	NNTN7034B	4205823V08 REV.N	PMMN4061B				422.1000							
							438.1000							
							454.0000							
							470.0000	5.45	-0.27	4.65	3.31	2.59	1.84	KKL-AB-150408-10
FAF5259A				NNTN7034B	4205823V08 REV.N	PMMN4061B	406.1250							
							422.1000							
							438.1000							
							454.0000							
	NNTN7034B	4205823V08 REV.N	PMMN4061B				470.0000	5.48	-0.30	3.95	2.80	2.20	1.56	KKL-AB-150408-11

13.3 LMR assessments at the Body for 450-512 MHz band

Battery PMNN4403B was selected as the default battery for assessments at the Body because it is the thinnest battery (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (450-512 MHz) which are listed in Table 36. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 36

Test Freq (MHz)	Power (W)
450.0000	5.55
465.5000	5.58
481.0000	5.58
496.5000	5.59
512.0000	5.58

Assessments at the Body with Body worn HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 36 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 37

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.59	-0.41	2.81	2.02	1.57	1.13	MO-AB-150106-07
				512.0000							
PMAS4001A	PMNN4403B	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.14	2.73	1.96	1.41	1.01	MO-AB-150106-08
				512.0000							
PMAT4001A	PMNN4403B	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.65	-0.55	2.14	1.53	1.23	0.88	KKL-AB-150106-09
				512.0000							
FAF5260A	PMNN4403B	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.20	4.85	3.47	2.54	1.82	KKL-AB-150106-10
				512.0000							
Assessment of Additional Batteries											
FAF5260A	NNTN7034B	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.68	-0.39	7.60	3.00	4.17	1.65	KKL-AB-150106-11
				512.0000							

TABLE 37 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5260A	NNTN7573A	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.67	-0.28	5.60	3.99	3.00	2.14	KKL-AB-150106-12
				512.0000							
FAF5260A	NNTN7038B	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.14	4.63	3.32	2.40	1.72	KKL-AB-150106-13
				512.0000							
FAF5260A	NNTN8092A	HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.68	-0.20	4.49	3.23	2.36	1.70	KKL-AB-150106-14
				512.0000							

Assessments at the Body with Body worn NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 36 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 38

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.40	5.17	3.39	2.83	1.86	KKL-AB-150106-15
				512.0000							
PMAS4001A	PMNN4403B	NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.08	4.43	2.96	2.26	1.51	KKL-AB-150106-16
				512.0000							
PMAT4001A	PMNN4403B	NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.91	3.74	2.47	2.31	1.52	KKL-AB-150106-17
				512.0000							

TABLE 38 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5260A	PMNN4403B	NTN8266B	NNTN8203A	450.0000	5.70	-0.53	13.30	9.02	7.51	5.10	KKL-AB-150107-05
				465.5000	5.68	-0.18	12.40	8.38	6.49	4.38	KKL-AB-150107-06
				481.0000	5.70	-0.38	10.40	6.95	5.68	3.79	KY-AB-150107-03
				496.5000	5.68	-0.30	8.78	5.81	4.72	3.12	KY-AB-150107-02
				512.0000	5.69	-0.25	7.99	5.26	4.24	2.79	KY-AB-150107-04
Assessment of Additional Batteries											
FAF5260A	NNTN7034B	NTN8266B	NNTN8203A	450.0000	5.69	-0.35	12.30	8.12	6.68	4.41	KKL-AB-150107-07
				465.5000	5.69	-0.25	11.10	7.28	5.89	3.86	KKL-AB-150107-08
				481.0000							
				496.5000							
				512.0000							
FAF5260A	NNTN7573A	NTN8266B	NNTN8203A	450.0000	5.70	-0.22	13.10	8.20	6.89	4.31	KKL-AB-150107-09
				465.5000	5.69	-0.19	11.60	7.04	6.07	3.68	KKL-AB-150107-10
				481.0000							
				496.5000							
				512.0000							
FAF5260A	NNTN7038B	NTN8266B	NNTN8203A	450.0000	5.68	-0.44	13.20	8.91	7.33	4.95	KKL-AB-150107-11
				465.5000	5.68	-0.21	12.20	8.23	6.43	4.33	KKL-AB-150107-12
				481.0000	5.70	-0.36	10.50	7.04	5.70	3.82	KKL-AB-150107-13
				496.5000	5.70	-0.27	8.83	5.87	4.70	3.12	KKL-AB-150107-14
				512.0000	5.68	-0.21	7.88	5.16	4.15	2.72	KKL-AB-150107-15
FAF5260A	NNTN8092A	NTN8266B	NNTN8203A	450.0000	5.68	-0.51	12.10	8.20	6.83	4.63	KKL-AB-150107-16
				465.5000	5.70	-0.26	12.50	8.43	6.64	4.48	KKL-AB-150107-17
				481.0000							
				496.5000							
				512.0000							

Assessments at the Body with Body worn PMLN5657B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 36 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 39

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.37	1.09	0.80	0.59	0.44	KKL-AB-150107-18
				512.0000							

TABLE 39 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAS4001A	PMNN4403B	PMLN5657B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.07	0.96	0.70	0.49	0.36	KKL-AB-150107-19
				512.0000							
PMAT4001A	PMNN4403B	PMLN5657B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.74	0.96	0.71	0.57	0.42	KKL-AB-150107-20
				512.0000							
FAF5260A	PMNN4403B	PMLN5657B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.21	1.81	1.32	0.95	0.69	CcC-AB-150108-02
				512.0000							
Assessment of Additional Batteries											
FAF5260A	NNTN7038B	PMLN5657B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.19	1.68	1.22	0.88	0.64	CcC-AB-150108-03
				512.0000							
FAF5260A	NNTN8092A	PMLN5657B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.25	1.76	1.29	0.93	0.68	CcC-AB-150108-04
				512.0000							

Assessments at the Body with Body worn PMLN5709A and NTN8266B
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 36 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 40

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.49	2.96	2.12	1.66	1.19	CcC-AB-150108-05
				512.0000							

TABLE 40 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAS4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.10	2.79	2.01	1.43	1.03	CcC-AB-150108-06
				512.0000							
PMAT4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-1.04	2.30	1.64	1.46	1.04	KKL-AB-150108-07
				512.0000							
FAF5260A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.24	4.83	3.47	2.55	1.83	KKL-AB-150108-08
				512.0000							
Assessment of Additional Batteries											
FAF5260A	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.26	5.71	4.09	3.03	2.17	KKL-AB-150108-09
				512.0000							
FAF5260A	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.26	5.41	3.89	2.87	2.06	KKL-AB-150108-10
				512.0000							
FAF5260A	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.29	4.94	3.55	2.64	1.90	KKL-AB-150108-11
				512.0000							
FAF5260A	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.27	4.44	3.17	2.36	1.69	KKL-AB-150108-12
				512.0000							

Assessments at the Body with Body worn PMLN5709A and HLN6875A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 36 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 41

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.39	1.88	1.35	1.03	0.74	KKL-AB-150108-13
				512.0000							
PMAS4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.17	2.13	1.54	1.11	0.80	KKL-AB-150108-14
				512.0000							
PMAT4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.70	1.91	1.37	1.12	0.80	KKL-AB-150108-15
				512.0000							
FAF5260A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.19	3.38	2.43	1.77	1.27	KKL-AB-150108-16
				512.0000							
Assessment of Additional Batteries											
FAF5260A	NNTN7034B	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.68	-0.33	6.24	2.64	3.38	1.43	KKL-AB-150205-15
				512.0000							
FAF5260A	NNTN7573A	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.68	-0.17	5.73	2.47	2.99	1.29	KKL-AB-150108-18
				512.0000							
FAF5260A	NNTN7038B	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.20	3.10	2.23	1.62	1.17	KKL-AB-150108-19
				512.0000							
FAF5260A	NNTN8092A	PMLN5709A tested w/ HLN6875A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.19	3.45	2.49	1.80	1.30	KKL-AB-150108-20
				512.0000							

Assessments at the Body with Body worn PMLN5657B and NTN5243A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 36 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 42

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.39	3.12	2.14	1.71	1.17	KKL-AB-150109-17
				512.0000							
PMAS4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.24	3.30	2.26	1.75	1.20	KKL-AB-150109-18
				512.0000							
PMAT4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.94	2.37	1.64	1.47	1.02	KKL-AB-150111-02
				512.0000							
FAF5260A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.69	-0.20	4.73	3.25	2.48	1.70	KKL-AB-150111-03
				512.0000							
Assessment of Additional Batteries											
FAF5260A	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.24	4.47	3.09	2.36	1.63	KKL-AB-150111-04
				512.0000							
FAF5260A	NNTN8092A	PMLN5657B tested w/ NTN5243A	NNTN8203A	450.0000							
				465.5000							
				481.0000							
				496.5000	5.70	-0.26	4.03	2.80	2.14	1.49	KKL-AB-150111-05
				512.0000							

Assessment at the Body with other audio accessories

Assessment of additional audio accessories per “KDB 643646 Body SAR Test Consideration for Audio Accessories without Built-in Antenna” Section 1, A. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 43

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5260A	PMNN4403B	NTN8266B	NNTN8575A	450.0000	5.68	-0.24	12.40	8.38	6.58	4.44	KKL-AB-150111-06
				465.5000	5.68	-0.22	11.80	7.99	6.23	4.22	KKL-AB-150111-07
				481.0000	5.70	-0.39	9.96	6.66	5.45	3.64	KKL-AB-150111-08
				496.5000	5.70	-0.27	8.39	5.58	4.46	2.97	KKL-AB-150111-09
				512.0000	5.70	-0.22	7.57	4.97	3.98	2.61	KKL-AB-150111-10
FAF5260A	PMNN4403B	NTN8266B	PMMN4084A	450.0000	5.70	-0.53	13.50	9.19	7.63	5.19	KKL-AB-150111-11
				465.5000	5.65	-0.22	12.30	8.37	6.53	4.44	CcC-AB-150112-02
				481.0000	5.68	-0.41	10.20	6.81	5.63	3.76	CcC-AB-150112-03
				496.5000	5.70	-0.23	8.51	5.68	4.49	2.99	CcC-AB-150112-04
				512.0000	5.68	-0.23	7.88	5.18	4.17	2.74	CcC-AB-150112-05
FAF5260A	PMNN4403B	NTN8266B	PMMN4062A	450.0000	5.67	-0.54	13.40	9.16	7.63	5.21	CcC-AB-150112-06
				465.5000	5.67	-0.23	12.60	8.52	6.68	4.52	CcC-AB-150112-07
				481.0000	5.70	-0.41	10.30	6.95	5.66	3.82	CcC-AB-150112-08
				496.5000	5.70	-0.23	8.64	5.74	4.56	3.03	CcC-AB-150112-09
				512.0000	5.67	-0.21	7.93	5.22	4.18	2.75	CcC-AB-150112-10
FAF5260A	PMNN4403B	NTN8266B	NMN6274A	450.0000	5.68	-0.34	12.80	8.68	6.95	4.71	CcC-AB-150112-11
				465.5000	5.68	-0.15	11.10	7.43	5.77	3.86	CcC-AB-150112-12
				481.0000	5.68	-0.41	9.72	6.51	5.36	3.59	KKL-AB-150112-13
				496.5000	5.70	-0.26	8.85	5.86	4.70	3.11	KKL-AB-150112-14
				512.0000	5.70	-0.24	7.29	4.77	3.85	2.52	KKL-AB-150112-15
FAF5260A	PMNN4403B	NTN8266B	PMLN5111A	450.0000	5.70	-0.49	13.20	8.96	7.39	5.02	KKL-AB-150112-16
				465.5000	5.70	-0.21	12.10	8.23	6.35	4.32	KKL-AB-150112-17
				481.0000	5.70	-0.34	10.30	6.95	5.57	3.76	KKL-AB-150112-18
				496.5000	5.70	-0.26	8.74	5.82	4.64	3.09	KKL-AB-150112-19
				512.0000	5.68	-0.20	7.94	5.24	4.17	2.75	KKL-AB-150112-20
FAF5260A	PMNN4403B	NTN8266B	PMLN5101A	450.0000	5.70	-0.53	12.70	8.60	7.17	4.86	KKL-AB-150112-21
				465.5000	5.69	-0.21	12.20	8.32	6.41	4.37	KKL-AB-150112-22
				481.0000	5.70	-0.36	10.30	6.93	5.60	3.76	KKL-AB-150112-23
				496.5000	5.70	-0.26	8.71	5.76	4.62	3.06	KKL-AB-150112-24
				512.0000	5.67	-0.24	7.95	5.21	4.22	2.77	CcC-AB-150113-02
FAF5260A	PMNN4403B	NTN8266B	PMLN5275C	450.0000	5.70	-0.37	13.90	9.36	7.57	5.10	CcC-AB-150113-03
				465.5000	5.70	-0.19	12.40	8.43	6.48	4.40	CcC-AB-150113-04
				481.0000	5.70	-0.30	11.00	7.36	5.89	3.94	CcC-AB-150113-05
				496.5000	5.69	-0.23	8.93	5.92	4.72	3.13	CcC-AB-150113-06
				512.0000	5.70	-0.22	8.18	5.39	4.30	2.84	CcC-AB-150113-07
FAF5260A	PMNN4403B	NTN8266B	RLN5882A	450.0000	5.69	-0.29	13.20	8.99	7.07	4.81	CcC-AB-150113-08
				465.5000	5.68	-0.15	11.50	7.73	5.97	4.02	CcC-AB-150113-09
				481.0000	5.70	-0.37	9.66	6.49	5.26	3.53	CcC-AB-150113-10
				496.5000	5.70	-0.22	8.01	5.32	4.21	2.80	CcC-AB-150113-11
				512.0000	5.70	-0.22	7.52	4.95	3.96	2.60	KKL-AB-150113-12
FAF5260A	PMNN4403B	NTN8266B	RMN5058A	450.0000	5.70	-0.47	12.60	8.56	7.02	4.77	KKL-AB-150113-13
				465.5000	5.68	-0.24	12.40	8.38	6.58	4.44	KKL-AB-150113-14
				481.0000	5.70	-0.34	10.40	7.01	5.62	3.79	KKL-AB-150113-15
				496.5000	5.68	-0.28	8.68	5.79	4.65	3.10	KKL-AB-150113-16
				512.0000	5.68	-0.22	7.84	5.18	4.14	2.73	KKL-AB-150113-17

TABLE 43 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5260A	PMNN4403B	NTN8266B	NNTN7869A tested w/ ZMN6038ASP01	450.0000	5.70	-0.27	13.40	9.14	7.13	4.86	KKL-AB-150113-18
				465.5000	5.69	-0.16	11.20	7.62	5.82	3.96	KKL-AB-150113-19
				481.0000	5.70	-0.35	9.24	6.19	5.01	3.36	KKL-AB-150113-20
				496.5000	5.70	-0.18	7.08	4.71	3.69	2.46	KKL-AB-150113-21
				512.0000	5.70	-0.24	7.56	5.02	4.00	2.65	KKL-AB-150113-22
FAF5260A	PMNN4403B	NTN8266B	HMN4104B	450.0000	5.65	-0.60	13.50	9.10	7.82	5.27	CcC-AB-150202-02
				465.5000	5.64	-0.23	12.30	8.20	6.55	4.37	CcC-AB-150202-03
				481.0000	5.70	-0.57	9.27	6.11	5.29	3.48	CcC-AB-150202-04
				496.5000	5.70	-0.27	8.73	5.69	4.65	3.03	CcC-AB-150202-05
				512.0000	5.70	-0.22	8.06	5.22	4.24	2.75	CcC-AB-150202-06

Assessment of wireless BT configuration

Assessment using the overall highest SAR configuration at the body from above without an audio accessory attached. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 44

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5260A	PMNN4403B	NTN8266B	NONE	450.0000	5.65	-0.65	13.50	9.15	7.91	5.36	CcC-AB-150206-01
				465.5000	5.70	-0.22	13.60	9.35	7.15	4.92	KKL-AB-150113-24
				481.0000	5.69	-0.27	11.50	7.76	6.13	4.14	CcC-AB-150114-02
				496.5000	5.70	-0.21	9.73	6.50	5.11	3.41	CcC-AB-150114-03
				512.0000	5.70	-0.21	8.55	5.71	4.49	3.00	CcC-AB-150114-04

Assessment of PSM configuration

Battery NNTN7034B was selected as the default battery for assessments at the Body with Public Safety Microphone (PSM) because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (450-512 MHz) which are listed in Table 45. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 45

Test Freq (MHz)	Power (W)
450.0000	5.57
465.5000	5.58
481.0000	5.58
496.5000	5.58
512.0000	5.57

Assessment of offered PSM audio accessories per KDB 643646. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 46

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#		
PMAE4065A	NNTN7034B	4205823V08 REV.N	PMMN4059B	450.0000									
				465.5000	5.60	-0.21	7.21	5.16	3.85	2.76	KKL-AB-150408-12		
				481.0000									
				496.5000	5.42	-0.36	3.62	2.57	2.07	1.47	KKL-AB-150408-13		
				512.0000									
FAF5260A				450.0000	5.42	-0.21	5.34	3.58	2.95	1.98	MO-AB-150409-03		
				465.5000	5.42	-0.35	7.57	5.16	4.31	2.94	MO-AB-150409-02		
				481.0000	5.60	-0.33	10.10	6.92	5.55	3.80	KKL-AB-150409-16		
				496.5000	5.42	-0.33	5.26	3.58	2.98	2.03	MO-AB-150409-05		
				512.0000									
PMAE4065A	NNTN7034B	4205823V08 REV.N	PMMN4060B	450.0000									
				465.5000	5.42	-0.26	5.73	3.57	3.20	1.99	MO-AB-150409-07		
				481.0000									
				496.5000									
				512.0000									
FAF5260A				450.0000									
				465.5000	5.42	-0.24	5.67	3.42	3.15	1.90	MO-AB-150409-08		
				481.0000									
				496.5000									
				512.0000									
PMAE4065A	NNTN7034B	4205823V08 REV.N	PMMN4061B	450.0000									
				465.5000	5.42	-0.23	5.14	3.32	2.85	1.84	MO-AB-150409-09		
				481.0000									
				496.5000									
				512.0000									
FAF5260A				450.0000	5.42	-0.15	5.53	3.43	3.01	1.87	MO-AB-150409-11		
				465.5000	5.42	-0.23	7.29	4.77	4.04	2.64	MO-AB-150409-10		
				481.0000	5.45	-0.31	5.84	3.86	3.28	2.17	KKL-AB-150409-12		
				496.5000	5.43	-0.24	5.52	3.66	3.06	2.03	KKL-AB-150409-13		
				512.0000									

13.4 LMR assessments at the Body for 764-775 MHz band

Battery PMNN4403B was selected as the default battery for assessments at the Body because it is the thinnest battery (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (764-775 MHz) which are listed in Table 47. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 47

Test Freq (MHz)	Power (W)
764.0125	2.92
770.0000	2.93
774.9875	2.94

Assessments at the Body with Body worn HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 47 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 48

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	HLN6875A	NNTN8203A	764.0125	2.96	-0.30	6.68	4.89	3.62	2.65	KKL-AB-150115-06
				770.0000							
				774.9875	2.96	-0.32	6.90	5.03	3.75	2.73	KKL-AB-150115-05
NAF5058A	PMNN4403B	HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.33	3.70	2.70	2.02	1.47	KKL-AB-150115-07
NAR6594A	PMNN4403B	HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.24	4.89	3.56	2.62	1.91	CcC-AB-150116-02
NAR6595A	PMNN4403B	HLN6875A	NNTN8203A	764.0125	2.92	-0.36	7.79	5.69	4.33	3.16	CcC-AB-150116-05
				770.0000	2.94	-0.32	7.63	5.55	4.18	3.04	CcC-AB-150116-04
				774.9875	2.95	-0.29	7.62	5.55	4.13	3.01	CcC-AB-150116-03
PMAS4001A	PMNN4403B	HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.29	3.84	2.80	2.08	1.52	KKL-AB-150116-06
Assessment of Additional Batteries											
NAR6595A	NNTN7034B	HLN6875A	NNTN8203A	764.0125	2.96	-0.06	1.81	1.32	0.93	0.68	KKL-AB-150116-07
				770.0000							
				774.9875							
NAR6595A	NNTN7573A	HLN6875A	NNTN8203A	764.0125	2.86	-0.43	3.28	2.31	1.89	1.33	KKL-AB-150116-08
				770.0000							
				774.9875							
NAR6595A	NNTN7038B	HLN6875A	NNTN8203A	764.0125	2.92	-0.29	7.90	5.76	4.32	3.15	KKL-AB-150116-09
				770.0000							
				774.9875							
NAR6595A	NNTN8092A	HLN6875A	NNTN8203A	764.0125	2.92	-0.38	6.86	4.98	3.83	2.78	KKL-AB-150116-10
				770.0000							
				774.9875							

Assessments at the Body with Body worn NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 47 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 49

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	NTN8266B	NNTN8203A	764.0125	2.94	-0.30	9.49	6.59	5.17	3.59	KKL-AB-150116-13
				770.0000	2.96	-0.31	9.40	6.49	5.10	3.52	KKL-AB-150116-12
				774.9875	2.95	-0.30	9.47	6.47	5.14	3.51	KKL-AB-150116-11
NAF5058A	PMNN4403B	NTN8266B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.30	5.58	3.89	3.03	2.11	KKL-AB-150116-14
NAR6594A	PMNN4403B	NTN8266B	NNTN8203A	764.0125	2.94	-0.38	7.99	5.65	4.43	3.14	KKL-AB-150116-16
				770.0000							
				774.9875	2.95	-0.34	7.23	5.04	3.96	2.76	KKL-AB-150116-15
NAR6595A	PMNN4403B	NTN8266B	NNTN8203A	764.0125	2.96	-0.23	10.10	7.09	5.38	3.78	KKL-AB-150116-19
				770.0000	2.96	-0.32	9.95	6.92	5.41	3.76	KKL-AB-150116-18
				774.9875	2.95	-0.37	9.85	6.77	5.44	3.74	KKL-AB-150116-17
PMAS4001A	PMNN4403B	NTN8266B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.41	5.80	4.16	3.23	2.32	MO-AB-150117-02
Assessment of Additional Batteries											
KT000026A01				764.0125	2.93	-0.22	6.40	4.01	3.44	2.15	MO-AB-150117-03
				770.0000							
				774.9875							
NAR6594A	NNTN7034B	NTN8266B	NNTN8203A	764.0125	2.93	0.10	4.43	2.84	2.26	1.45	MO-AB-150117-04
				770.0000							
				774.9875							
NAR6595A				764.0125							
				770.0000							
				774.9875	2.95	-0.04	5.81	3.64	2.97	1.86	MO-AB-150117-05
KT000026A01				764.0125	2.93	-0.25	5.94	3.78	3.21	2.04	MO-AB-150117-06
				770.0000							
				774.9875							
NAR6594A	NNTN7573A	NTN8266B	NNTN8203A	764.0125	2.93	-0.01	4.22	2.70	2.16	1.38	MO-AB-150117-07
				770.0000							
				774.9875							
NAR6595A				764.0125							
				770.0000							
				774.9875	2.96	-0.05	5.38	3.46	2.75	1.77	MO-AB-150117-08
KT000026A01	NNTN7038B	NTN8266B	NNTN8203A	764.0125	2.95	-0.35	9.40	6.77	5.16	3.72	MO-AB-150117-09
				770.0000							
				774.9875							

TABLE 49 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
NAR6594A	NNTN7038B	NTN8266B	NNTN8203A	764.0125	2.94	-0.38	8.05	5.80	4.47	3.22	MO-AB-150117-10	
				770.0000								
				774.9875								
NAR6595A				764.0125								
				770.0000								
				774.9875	2.96	-0.42	9.52	6.85	5.30	3.81	KKL-AB-150118-02	
KT000026A01	NNTN8092A	NTN8266B	NNTN8203A	764.0125	2.95	-0.37	9.07	6.28	5.01	3.47	KKL-AB-150118-03	
				770.0000								
				774.9875								
NAR6594A				764.0125	2.94	-0.42	7.57	5.46	4.24	3.06	KKL-AB-150118-04	
				770.0000								
				774.9875								
NAR6595A				764.0125								
				770.0000								
				774.9875	2.96	-0.44	9.45	6.62	5.28	3.70	KKL-AB-150118-05	

Assessments at the Body with Body worn PMLN5657B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 47 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 50

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
KT000026A01	PMNN4403B	PMLN5657B	NNTN8203A	764.0125								
				770.0000								
				774.9875	2.95	-0.37	2.28	1.68	1.26	0.93	KKL-AB-150118-06	
NAF5058A				764.0125								
				770.0000								
				774.9875	2.97	-0.38	1.27	0.93	0.70	0.51	KKL-AB-150118-07	
NAR6594A	764.0125											
	770.0000											
	774.9875	2.97	-0.10	1.77	1.31	0.91	0.67	KKL-AB-150118-08				
NAR6595A	764.0125											
	770.0000											
	774.9875	2.96	-0.32	2.82	2.08	1.53	1.13	KKL-AB-150118-09				
PMAS4001A	764.0125											
	770.0000											
	774.9875	2.96	-0.34	1.43	1.05	0.78	0.57	KKL-AB-150118-10				

TABLE 50 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Assessment of Additional Batteries											
NAR6595A	NNTN7038B	PMLN5657B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.92	-0.37	2.70	1.99	1.51	1.11	CcC-AB-150119-02
NAR6595A	NNTN8092A	PMLN5657B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.36	2.84	2.09	1.56	1.15	CcC-AB-150119-03

Assessments at the Body with Body worn PMLN5709A and NTN8266B
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 47 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 51

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125	2.95	-0.28	6.93	5.06	3.75	2.74	CcC-AB-150119-05
				770.0000							
				774.9875	2.94	-0.28	6.89	5.02	3.74	2.72	CcC-AB-150119-04
NAF5058A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.36	3.88	2.83	2.14	1.56	CcC-AB-150119-06
NAR6594A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.94	-0.28	5.43	3.97	2.95	2.15	MO-AB-150119-07
NAR6595A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125	2.93	-0.33	7.85	5.74	4.32	3.16	MO-AB-150119-10
				770.0000	2.95	-0.33	8.05	5.87	4.40	3.21	MO-AB-150119-09
				774.9875	2.95	-0.30	7.80	5.70	4.24	3.10	MO-AB-150119-08
PMAS4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.35	3.92	2.86	2.15	1.57	MO-AB-150119-11
Assessment of Additional Batteries											
NAR6595A	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000	2.93	-0.07	2.54	1.68	1.32	0.87	MO-AB-150119-12
				774.9875							
NAR6595A	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000	2.95	-0.03	2.53	1.84	1.29	0.94	MO-AB-150119-13
				774.9875							
NAR6595A	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000	2.95	-0.28	7.90	5.77	4.27	3.12	MO-AB-150119-14
				774.9875							

TABLE 51 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	764.0125							
				770.0000	2.95	-0.33	7.67	5.59	4.19	3.06	MO-AB-150119-15
				774.9875							

Assessments at the Body with Body worn PMLN5709A and HLN6875A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 47 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 52

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.33	4.84	3.54	2.65	1.94	MO-AB-150119-16
NAF5058A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.40	2.63	1.92	1.46	1.07	MO-AB-150119-17
NAR6594A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.28	3.64	2.66	1.97	1.44	MO-AB-150119-18
NAR6595A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.31	6.00	4.39	3.27	2.39	MO-AB-150119-19
PMAS4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.93	-0.32	2.72	1.99	1.49	1.09	MO-AB-150119-20
Assessment of Additional Batteries											
NAR6595A	NNTN7034B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.25	1.33	0.99	0.71	0.53	MO-AB-150119-21
NAR6595A	NNTN7573A	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.94	-0.16	3.41	2.40	1.80	1.27	MO-AB-150119-22
NAR6595A	NNTN7038B	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.30	6.01	4.38	3.26	2.38	CcC-AB-150120-02
NAR6595A	NNTN8092A	PMLN5709A tested w/ HLN6875A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.31	5.67	4.13	3.09	2.25	CcC-AB-150120-03

Assessments at the Body with Body worn PMLN5657B and NTN5243A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 47 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 53

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.24	6.18	4.45	3.31	2.38	CcC-AB-150121-05
NAF5058A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.19	4.05	2.86	2.14	1.51	KKL-AB-150121-06
NAR6594A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.33	4.83	3.44	2.63	1.87	KKL-AB-150121-07
NAR6595A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125	2.95	-0.40	7.50	5.44	4.17	3.02	KKL-AB-150121-10
				770.0000	2.95	0.11	7.31	5.28	3.70	2.68	KKL-AB-150121-09
				774.9875	2.96	-0.23	7.58	5.47	4.04	2.91	KKL-AB-150121-08
PMAS4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.95	-0.33	3.80	2.66	2.08	1.45	KKL-AB-150121-11
Assessment of Additional Batteries											
NAR6595A	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.20	7.35	5.36	3.89	2.83	KKL-AB-150121-12
NAR6595A	NNTN8092A	PMLN5657B tested w/ NTN5243A	NNTN8203A	764.0125							
				770.0000							
				774.9875	2.96	-0.21	6.85	4.97	3.63	2.63	KKL-AB-150121-13

Assessment at the Body with other audio accessories
 Assessment of additional audio accessories per “KDB 643646 Body SAR Test Consideration for Audio Accessories without Built-in Antenna” Section 1, A. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 54

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	PMNN4403B	NTN8266B	NNTN8575A	764.0125							
				770.0000							
				774.9875	2.95	-0.38	9.50	6.40	5.25	3.54	KKL-AB-150121-14
NAR6595A	PMNN4403B	NTN8266B	PMMN4084A	764.0125							
				770.0000							
				774.9875	2.96	-0.42	9.35	6.74	5.20	3.75	KKL-AB-150121-15

TABLE 54 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	PMNN4403B	NTN8266B	PMMN4062A	764.0125							
				770.0000							
				774.9875	2.97	-0.41	9.63	6.52	5.33	3.61	KKL-AB-150121-16
NAR6595A	PMNN4403B	NTN8266B	NMN6274A	764.0125							
				770.0000							
				774.9875	2.96	-0.47	9.54	6.29	5.37	3.54	KKL-AB-150121-17
NAR6595A	PMNN4403B	NTN8266B	PMLN5111A	764.0125							
				770.0000							
				774.9875	2.97	-0.40	9.69	6.62	5.35	3.65	KKL-AB-150121-18
NAR6595A	PMNN4403B	NTN8266B	PMLN5101A	764.0125							
				770.0000							
				774.9875	2.95	-0.37	9.90	6.67	5.46	3.68	KKL-AB-150121-19
NAR6595A	PMNN4403B	NTN8266B	PMLN5275C	764.0125							
				770.0000							
				774.9875	2.96	-0.33	9.53	6.59	5.19	3.59	KKL-AB-150121-20
NAR6595A	PMNN4403B	NTN8266B	RLN5882A	764.0125							
				770.0000							
				774.9875	2.95	-0.34	9.45	6.47	5.18	3.55	KKL-AB-150121-21
NAR6595A	PMNN4403B	NTN8266B	RMN5058A	764.0125							
				770.0000							
				774.9875	2.95	-0.45	9.46	6.55	5.32	3.68	CcC-AB-150122-02
NAR6595A	PMNN4403B	NTN8266B	NNTN7869A tested w/ ZMN6038ASP01	764.0125							
				770.0000							
				774.9875	2.93	-0.26	9.84	6.83	5.33	3.70	CcC-AB-150122-03
NAR6595A	PMNN4403B	NTN8266B	HMN4104B	764.0125							
				770.0000							
				774.9875	2.96	-0.43	9.70	6.67	5.41	3.72	CcC-AB-150122-05

Assessment of wireless BT configuration

Assessment using the overall highest SAR configuration at the body from above without an audio accessory attached. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 55

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	PMNN4403B	NTN8266B	NONE	764.0125							
				770.0000							
				774.9875	2.95	-0.35	9.86	7.14	5.42	3.92	CcC-AB-150122-04

Assessment of PSM configuration

Battery NNTN7034B was selected as the default battery for assessments at the Body with Public Safety Microphone (PSM) because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (406.1-470 MHz) which are listed in Table 56. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 56

Test Freq (MHz)	Power (W)
764.0125	2.91
770.0000	2.92
774.9875	2.92

Assessment of offered PSM audio accessories per KDB 643646. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 57

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
Body												
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4059B	764.0125								
				770.0000	2.90	-0.24	5.04	3.41	2.75	1.86	KKL-AB-150130-04	
				774.9875								
NAR6595A				764.0125								
				770.0000	2.96	-0.20	2.20	1.46	1.16	0.77	KKL-AB-150216-02	
				774.9875								
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4060B	764.0125								
				770.0000	2.96	-0.27	3.34	2.21	1.80	1.19	KKL-AB-150129-10	
				774.9875								
NAR6595A				764.0125								
				770.0000	2.96	-0.23	1.73	1.13	0.92	0.60	KKL-AB-150216-03	
				774.9875								
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4061B	764.0125								
				770.0000	2.96	-0.23	3.43	2.25	1.83	1.20	KKL-AB-150129-11	
				774.9875								
NAR6595A				764.0125								
				770.0000	2.96	-0.36	1.78	1.14	0.98	0.63	KKL-AB-150216-04	
				774.9875								

13.5 LMR assessments at the Body for 794-824 MHz band

Battery PMNN4403B was selected as the default battery for assessments at the Body because it is the thinnest battery (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (794-824 MHz) which are listed in Table 58. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 58

Test Freq (MHz)	Power (W)
794.0125	2.93
808.5000	3.47
823.9875	3.44

Assessments at the Body with Body worn HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 58 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 59

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.51	-0.38	6.97	5.04	3.90	2.82	MO-AB-150122-06
				823.9875							
NAF5058A	PMNN4403B	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.51	-0.28	2.91	2.10	1.59	1.15	KKL-AB-150122-07
				823.9875							
NAR6594A	PMNN4403B	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.27	2.77	2.00	1.52	1.09	KKL-AB-150122-08
				823.9875							
NAR6595A	PMNN4403B	HLN6875A	NNTN8203A	794.0125	2.96	-0.27	7.47	5.41	4.01	2.91	KKL-AB-150122-10
				808.5000	3.50	-0.32	8.68	6.27	4.81	3.47	KKL-AB-150122-09
				823.9875	3.49	-0.30	8.44	6.08	4.66	3.36	KKL-AB-150122-11
PMAS4001A	PMNN4403B	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.25	1.98	1.43	1.08	0.78	KKL-AB-150122-12
				823.9875							
Assessment of Additional Batteries											
NAR6595A	NNTN7034B	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.29	2.40	1.78	1.32	0.98	KKL-AB-150122-13
				823.9875							
NAR6595A	NNTN7573A	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.51	-0.36	4.92	3.42	2.74	1.91	KKL-AB-150122-14
				823.9875							

TABLE 59 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN7038B	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.52	-0.27	8.53	6.15	4.64	3.35	KKL-AB-150122-15
				823.9875							
NAR6595A	NNTN8092A	HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.29	7.06	5.07	3.88	2.79	KKL-AB-150122-16
				823.9875							

Assessments at the Body with Body worn NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 58 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 60

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	NTN8266B	NNTN8203A	794.0125	2.96	-0.33	9.01	6.00	4.91	3.27	KKL-AB-150122-18
				808.5000	3.52	-0.30	10.00	6.55	5.48	3.59	KKL-AB-150122-17
				823.9875	3.50	-0.82	4.78	2.81	2.97	1.75	KKL-AB-150122-19
NAF5058A	PMNN4403B	NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.19	3.79	2.29	2.04	1.23	KKL-AB-150122-20
				823.9875							
NAR6594A	PMNN4403B	NTN8266B	NNTN8203A	794.0125							
				808.5000	3.51	-0.22	3.98	2.43	2.15	1.31	KKL-AB-150122-21
				823.9875							
NAR6595A	PMNN4403B	NTN8266B	NNTN8203A	794.0125	2.96	-0.40	9.65	6.40	5.34	3.54	KKL-AB-150122-23
				808.5000	3.50	-0.32	11.20	6.78	6.20	3.75	KKL-AB-150122-22
				823.9875	3.46	-0.43	10.20	6.70	5.86	3.85	CcC-AB-150123-02
PMAS4001A	PMNN4403B	NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.16	2.80	1.72	1.49	0.92	CcC-AB-150123-03
				823.9875							
Assessment of Additional Batteries											
KT000026A01	NNTN7034B	NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.31	7.24	4.55	4.00	2.51	CcC-AB-150123-04
				823.9875							
NAR6595A	NNTN7034B	NTN8266B	NNTN8203A	794.0125	2.97	-0.27	7.03	4.33	3.77	2.32	CcC-AB-150123-06
				808.5000	3.50	-0.33	7.87	4.93	4.37	2.74	CcC-AB-150123-05
				823.9875	3.47	-0.36	8.31	5.16	4.68	2.91	CcC-AB-150123-07
KT000026A01	NNTN7573A	NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.38	7.35	4.71	4.13	2.64	CcC-AB-150123-08
				823.9875							

TABLE 60 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN7573A	NTN8266B	NNTN8203A	794.0125	2.98	-0.24	6.64	4.22	3.52	2.24	KKL-AB-150123-10
				808.5000	3.50	-0.39	7.90	5.05	4.44	2.84	CcC-AB-150123-09
				823.9875	3.50	-0.41	7.60	4.88	4.30	2.76	KKL-AB-150123-11
KT000026A01	NNTN7038B	NTN8266B	NNTN8203A	794.0125	2.96	-0.36	8.66	5.97	4.75	3.28	KKL-AB-150123-13
				808.5000	3.50	-0.32	10.90	6.94	6.03	3.84	KKL-AB-150123-12
				823.9875	3.48	-0.44	8.92	5.90	5.11	3.38	KKL-AB-150123-14
NAR6595A	NNTN7038B	NTN8266B	NNTN8203A	794.0125	2.98	-0.38	9.57	6.38	5.24	3.49	KKL-AB-150123-16
				808.5000	3.50	-0.29	10.90	7.16	5.99	3.94	KKL-AB-150123-15
				823.9875	3.49	-0.26	10.50	6.88	5.75	3.77	KKL-AB-150123-17
KT000026A01	NNTN8092A	NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.29	9.69	6.29	5.33	3.46	KKL-AB-150123-18
				823.9875							
NAR6595A	NNTN8092A	NTN8266B	NNTN8203A	794.0125	2.99	-0.30	9.27	6.15	4.97	3.29	MO-AB-150124-03
				808.5000	3.50	-0.42	10.60	7.01	6.00	3.97	MO-AB-150124-02
				823.9875	3.50	-0.36	9.96	6.43	5.56	3.59	MO-AB-150124-04

Assessments at the Body with Body worn PMLN5657B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 58 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 61

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.52	-0.39	2.70	1.98	1.51	1.11	MO-AB-150124-05
				823.9875							
NAF5058A	PMNN4403B	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.51	-0.30	1.09	0.80	0.60	0.44	MO-AB-150124-06
				823.9875							
NAR6594A	PMNN4403B	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.51	-0.28	0.95	0.70	0.52	0.38	MO-AB-150124-07
				823.9875							
NAR6595A	PMNN4403B	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.50	-0.36	3.30	2.41	1.84	1.35	MO-AB-150124-08
				823.9875							
PMAS4001A	PMNN4403B	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.51	-0.24	0.66	0.49	0.36	0.26	MO-AB-150124-09
				823.9875							

TABLE 61 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Assessment of Additional Batteries											
NAR6595A	NNTN7038B	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.53	-0.30	3.13	2.28	1.71	1.25	MO-AB-150124-10
				823.9875							
NAR6595A	NNTN8092A	PMLN5657B	NNTN8203A	794.0125							
				808.5000	3.53	-0.37	3.05	2.24	1.69	1.24	MO-AB-150124-11
				823.9875							

Assessments at the Body with Body worn PMLN5709A and NTN8266B
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 58 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 62

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125	2.98	-0.28	6.44	4.67	3.45	2.50	KKL-AB-150125-03
				808.5000	3.50	-0.34	7.44	5.39	4.14	3.00	KKL-AB-150125-02
				823.9875	3.48	-0.35	6.95	5.01	3.90	2.81	KKL-AB-150125-04
NAF5058A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.30	2.44	1.76	1.34	0.97	KKL-AB-150125-05
				823.9875							
NAR6594A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.25	2.58	1.87	1.41	1.02	KKL-AB-150125-06
				823.9875							
NAR6595A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125	2.98	-0.28	7.38	5.37	3.95	2.87	KKL-AB-150125-08
				808.5000	3.50	-0.33	8.62	6.24	4.78	3.46	KKL-AB-150125-07
				823.9875	3.48	-0.31	8.40	6.07	4.67	3.37	KKL-AB-150125-09
PMAS4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.16	1.67	1.21	0.89	0.65	KKL-AB-150125-10
				823.9875							
Assessment of Additional Batteries											
KT000026A01	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.25	2.94	1.89	1.60	1.03	KKL-AB-150125-11
				823.9875							
NAR6595A	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.51	-0.26	3.12	2.01	1.70	1.09	KKL-AB-150125-12
				823.9875							
KT000026A01	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.48	-0.30	2.87	2.04	1.59	1.13	CcC-AB-150126-01
				823.9875							

TABLE 62 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.38	3.13	2.09	1.76	1.17	CcC-AB-150126-02
				823.9875							
KT000026A01	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.51	-0.33	7.53	5.45	4.17	3.02	CcC-AB-150126-03
				823.9875							
NAR6595A	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.48	-0.27	8.71	6.30	4.79	3.47	CcC-AB-150126-04
				823.9875							
KT000026A01	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.50	-0.33	7.22	5.24	4.01	2.91	CcC-AB-150126-05
				823.9875							
NAR6595A	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	794.0125							
				808.5000	3.48	-0.34	8.35	6.05	4.67	3.38	CcC-AB-150126-06
				823.9875							

Assessments at the Body with Body worn PMLN5709A and HLN6875A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 58 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 63

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.49	-0.33	5.51	3.99	3.07	2.22	CcC-AB-150126-07
				823.9875							
NAF5058A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.49	-0.31	2.28	1.65	1.26	0.91	CcC-AB-150126-09
				823.9875							
NAR6594A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.28	2.02	1.46	1.11	0.80	CcC-AB-150126-10
				823.9875							
NAR6595A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.33	6.21	4.51	3.45	2.50	KKL-AB-150126-11
				823.9875							
PMAS4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.51	-0.27	1.40	1.02	0.76	0.56	KKL-AB-150126-12
				823.9875							

TABLE 63 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Assessment of Additional Batteries											
NAR6595A	NNTN7034B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.27	2.23	1.64	1.22	0.90	KKL-AB-150126-13
				823.9875							
NAR6595A	NNTN7573A	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.33	4.22	2.95	2.34	1.64	KKL-AB-150126-14
				823.9875							
NAR6595A	NNTN7038B	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.30	6.42	4.66	3.54	2.57	KKL-AB-150126-15
				823.9875							
NAR6595A	NNTN8092A	PMLN5709A tested w/ HLN6875A	NNTN8203A	794.0125							
				808.5000	3.50	-0.34	5.63	4.09	3.13	2.27	KKL-AB-150126-16
				823.9875							

Assessments at the Body with Body worn PMLN5657B and NTN5243A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 58 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 64

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125	2.97	-0.25	6.60	4.73	3.52	2.52	KKL-AB-150126-18
				808.5000	3.50	-0.53	8.71	5.84	5.06	3.39	CcC-AB-150131-05
				823.9875	3.50	-0.32	6.87	4.94	3.80	2.73	KKL-AB-150126-19
NAF5058A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125							
				808.5000	3.50	-0.22	3.98	2.84	2.15	1.54	KKL-AB-150126-20
				823.9875							
NAR6594A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125							
				808.5000	3.50	-0.24	3.69	2.61	2.01	1.42	KKL-AB-150126-21
				823.9875							
NAR6595A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125	2.95	-0.30	7.68	5.44	4.17	2.95	CcC-AB-150127-01
				808.5000	3.50	-0.37	8.77	6.04	4.91	3.38	KKL-AB-150126-22
				823.9875	3.46	-0.29	8.96	6.04	4.98	3.36	CcC-AB-150127-02
PMAS4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125							
				808.5000	3.50	-0.13	3.11	2.22	1.65	1.18	CcC-AB-150127-03
				823.9875							
Assessment of Additional Batteries											
KT000026A01	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125							
				808.5000	3.51	-0.24	7.34	5.12	3.98	2.77	CcC-AB-150127-04
				823.9875							

TABLE 64 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125							
				808.5000	3.48	-0.23	8.65	5.66	4.72	3.09	CcC-AB-150127-05
				823.9875							
KT000026A01	NNTN8092A	PMLN5657B tested w/ NTN5243A	NNTN8203A	794.0125							
				808.5000	3.50	-0.05	7.18	5.10	3.74	2.65	CcC-AB-150127-06
				823.9875							
NAR6595A				794.0125							
				808.5000	3.47	-0.21	8.05	5.36	4.38	2.92	CcC-AB-150127-07
				823.9875							

Assessment at the Body with other audio accessories

Assessment of additional audio accessories per “KDB 643646 Body SAR Test Consideration for Audio Accessories without Built-in Antenna” Section 1, A. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 65

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	PMNN4403B	NTN8266B	NNTN8575A	794.0125	2.95	-0.31	9.95	6.07	5.42	3.30	CcC-AB-150127-08
				808.5000	3.46	-0.26	11.50	6.92	6.35	3.82	CcC-AB-150127-10
				823.9875	3.46	-0.24	11.00	6.53	6.05	3.59	CcC-AB-150127-11
NAR6595A	PMNN4403B	NTN8266B	PMMN4084A	794.0125	2.96	-0.30	9.65	6.33	5.22	3.43	KKL-AB-150127-12
				808.5000	3.50	-0.30	10.80	7.04	5.95	3.88	KKL-AB-150127-13
				823.9875	3.51	-0.34	10.30	6.64	5.71	3.68	KKL-AB-150127-14
NAR6595A	PMNN4403B	NTN8266B	PMMN4062A	794.0125	2.94	-0.42	9.75	6.34	5.46	3.55	KKL-AB-150127-15
				808.5000	3.51	-0.33	11.30	6.85	6.25	3.79	KKL-AB-150127-16
				823.9875	3.47	-0.36	10.70	6.82	6.03	3.84	KKL-AB-150127-17
NAR6595A	PMNN4403B	NTN8266B	NMN6274A	794.0125	2.96	-0.28	11.10	6.82	5.98	3.67	KKL-AB-150127-18
				808.5000	3.49	-0.14	13.30	8.16	7.08	4.35	CcC-AB-150130-03
				823.9875	3.46	-0.33	12.00	7.28	6.74	4.09	KKL-AB-150127-20
NAR6595A	PMNN4403B	NTN8266B	PMLN5111A	794.0125	2.96	-0.38	9.45	6.34	5.21	3.49	KKL-AB-150127-21
				808.5000	3.52	-0.39	10.90	7.14	6.10	3.99	KKL-AB-150127-22
				823.9875	3.47	-0.33	10.50	6.70	5.88	3.75	CcC-AB-150128-01
NAR6595A	PMNN4403B	NTN8266B	PMLN5101A	794.0125	2.98	-0.36	9.60	6.38	5.23	3.48	CcC-AB-150128-02
				808.5000	3.52	-0.40	11.00	7.21	6.17	4.04	CcC-AB-150128-03
				823.9875	3.48	-0.26	10.60	6.27	5.82	3.44	CcC-AB-150128-04
NAR6595A	PMNN4403B	NTN8266B	PMLN5275C	794.0125	2.98	-0.36	9.71	6.33	5.29	3.45	CcC-AB-150128-05
				808.5000	3.51	-0.41	11.10	7.28	6.26	4.10	CcC-AB-150128-06
				823.9875	3.48	-0.37	10.40	6.18	5.86	3.48	KKL-AB-150128-07
NAR6595A	PMNN4403B	NTN8266B	RLN5882A	794.0125	2.96	-0.34	9.09	6.09	4.96	3.33	KKL-AB-150128-09
				808.5000	3.52	-0.42	10.30	6.87	5.80	3.87	KKL-AB-150128-10
				823.9875	3.48	-0.42	10.10	6.57	5.75	3.74	KKL-AB-150128-11

TABLE 65 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	PMNN4403B	NTN8266B	RMN5058A	794.0125	2.96	-0.35	9.47	6.15	5.18	3.37	KKL-AB-150128-12
				808.5000	3.50	-0.40	11.00	7.17	6.20	4.04	KKL-AB-150128-13
				823.9875	3.52	-0.38	10.40	6.71	5.80	3.75	KKL-AB-150128-14
NAR6595A	PMNN4403B	NTN8266B	NNTN7869A tested w/ ZMN6038ASP01	794.0125	2.96	-0.25	9.50	5.86	5.08	3.14	KKL-AB-150128-15
				808.5000	3.51	-0.30	11.10	6.78	6.10	3.73	KKL-AB-150128-16
				823.9875	3.48	-0.31	10.40	6.23	5.78	3.46	KKL-AB-150128-17
NAR6595A	PMNN4403B	NTN8266B	HMN4104B	794.0125	2.95	-0.40	9.73	6.41	5.41	3.56	CcC-AB-150129-02
				808.5000	3.51	-0.27	11.30	6.93	6.17	3.78	CcC-AB-150129-03
				823.9875	3.48	-0.23	10.40	6.21	5.67	3.39	CcC-AB-150129-04

Assessment of wireless BT configuration

Assessment using the overall highest SAR configuration at the body from above without an audio accessory attached. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 66

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	PMNN4403B	NTN8266B	NONE	794.0125	2.96	-0.43	9.32	6.71	5.20	3.74	KKL-AB-150128-18
				808.5000	3.51	-0.45	10.50	7.55	5.97	4.29	KKL-AB-150128-19
				823.9875	3.46	-0.34	9.96	7.16	5.60	4.03	CcC-AB-150129-01

Assessment of PSM configuration

Battery NNTN7034B was selected as the default battery for assessments at the Body with Public Safety Microphone (PSM) because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (794-824 MHz) which are listed in Table 67. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 67

Test Freq (MHz)	Power (W)
794.0125	2.93
808.5000	3.46
823.9875	3.44

Assessment of offered PSM audio accessories per KDB 643646. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 68

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4059B	794.0125							
				808.5000	3.50	0.01	2.94	1.94	1.51	1.00	CcC-AB-150129-05
823.9875											
NAR6595A				794.0125							
				808.5000	3.50	0.12	1.64	1.05	0.84	0.54	KKL-AB-150216-05
823.9875											
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4060B	794.0125							
				808.5000	3.52	0.14	2.56	1.70	1.31	0.87	CcC-AB-150129-06
823.9875											
NAR6595A				794.0125							
				808.5000	3.50	0.31	2.15	1.38	1.11	0.71	KKL-AB-150216-06
823.9875											
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4061B	794.0125							
				808.5000	3.50	0.09	3.76	2.51	1.93	1.29	KKL-AB-150129-08
823.9875											
NAR6595A				794.0125							
				808.5000	3.50	0.22	2.86	1.88	1.47	0.97	KKL-AB-150216-07
823.9875											

13.6 LMR assessments at the Body for 851-869 MHz band

Battery PMNN4403B was selected as the default battery for assessments at the Body because it is the thinnest battery (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (851-869 MHz) which are listed in Table 69. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 69

Test Freq (MHz)	Power (W)
851.0125	3.48
860.5000	3.48
868.9875	3.50

Assessments at the Body with Body worn HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 69 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 70

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.75	2.34	1.68	1.40	1.00	MO-AB-150122-06
NAF5058A	PMNN4403B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.82	2.49	1.78	1.51	1.08	MO-AB-150122-07
NAR6594A	PMNN4403B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.42	4.27	3.05	2.36	1.69	MO-AB-150122-08
NAR6595A	PMNN4403B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.75	4.58	3.27	2.73	1.95	MO-AB-150122-09
PMAS4001A	PMNN4403B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-0.19	5.25	3.75	2.74	1.96	MO-AB-150122-10
Assessment of Additional Batteries											
PMAS4001A	NNTN7034B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.27	3.99	1.81	2.13	0.97	MO-AB-150122-11
PMAS4001A	NNTN7573A	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.23	5.61	3.08	2.97	1.63	MO-AB-150122-12
PMAS4001A	NNTN7038B	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.18	4.99	3.57	2.61	1.87	MO-AB-150122-13
PMAS4001A	NNTN8092A	HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-0.19	5.24	3.75	2.74	1.96	MO-AB-150122-14

Assessments at the Body with Body worn NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 69 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 71

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.93	3.06	1.88	1.91	1.17	MO-AB-150122-16

TABLE 71 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAF5058A	PMNN4403B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.93	3.61	2.17	2.25	1.35	CcC(Tiong)-AB-150123-01
NAR6594A	PMNN4403B	NTN8266B	NNTN8203A	851.0125	3.60	0.16	5.14	3.13	2.57	1.57	CcC(Tiong)-AB-150123-04
				860.5000	3.58	0.00	6.53	3.93	3.28	1.98	CcC(Tiong)-AB-150123-03
				868.9875	3.57	-0.62	6.89	4.06	4.01	2.36	CcC(Tiong)-AB-150123-02
NAR6595A	PMNN4403B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.71	5.74	3.39	3.39	2.00	CcC(Tiong)-AB-150123-05
PMAS4001A	PMNN4403B	NTN8266B	NNTN8203A	851.0125	3.58	-0.15	7.15	4.36	3.72	2.27	KKL(Tiong)-AB-150123-09
				860.5000	3.59	-0.19	8.68	5.17	4.55	2.71	CcC(Tiong)-AB-150123-08
				868.9875	3.59	-0.54	8.77	5.17	4.98	2.94	CcC(Tiong)-AB-150123-06
Assessment of Additional Batteries											
NAR6594A	NNTN7034B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.70	6.44	4.18	3.80	2.47	KKL(Tiong)-AB-150123-10
PMAS4001A	NNTN7034B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.78	7.65	5.01	4.60	3.01	KKL(Tiong)-AB-150123-11
NAR6594A	NNTN7573A	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-0.84	6.18	4.03	3.75	2.44	MO(Tiong)-AB-150124-01
PMAS4001A	NNTN7573A	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-1.00	6.73	4.57	4.24	2.88	MO(Tiong)-AB-150124-02
NAR6594A	NNTN7038B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.47	7.18	4.18	4.02	2.34	MO(Tiong)-AB-150124-03
PMAS4001A	NNTN7038B	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.45	8.91	5.20	4.96	2.89	MO(Tiong)-AB-150124-04
NAR6594A	NNTN8092A	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.62	7.04	4.13	4.07	2.39	MO(Tiong)-AB-150124-05

TABLE 71 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAS4001A	NNTN8092A	NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.52	8.97	5.22	5.07	2.95	MO(Tiong)-AB-150124-06

Assessments at the Body with Body worn PMLN5657B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 69 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 72

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-0.76	0.81	0.59	0.48	0.35	MO(Tiong)-AB-150124-08
NAF5058A	PMNN4403B	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.91	0.88	0.64	0.55	0.40	MO-AB-150125-02
NAR6594A	PMNN4403B	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.37	1.58	1.14	0.86	0.62	MO-AB-150125-03
NAR6595A	PMNN4403B	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-0.71	1.64	1.19	0.97	0.70	MO-AB-150125-04
PMAS4001A	PMNN4403B	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.10	1.80	1.30	0.92	0.67	MO-AB-150125-05
Assessment of Additional Batteries											
NAR6595A	NNTN7038B	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.77	1.52	1.10	0.91	0.66	MO-AB-150125-06
NAR6595A	NNTN8092A	PMLN5657B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.87	1.67	1.22	1.03	0.75	MO-AB-150125-07

Assessments at the Body with Body worn PMLN5709A and NTN8266B

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 69 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 73

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.88	2.08	1.50	1.28	0.92	MO-AB-150125-09
NAF5058A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.81	2.30	1.65	1.39	1.00	MO-AB-150125-10
NAR6594A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.41	4.06	2.92	2.24	1.61	MO-AB-150125-11
NAR6595A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.78	4.29	3.09	2.57	1.85	CcC(Tiong)-AB-150126-01
PMAS4001A	PMNN4403B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.17	4.99	3.60	2.61	1.88	CcC(Tiong)-AB-150126-02
Assessment of Additional Batteries											
PMAS4001A	NNTN7034B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.42	3.47	2.30	1.92	1.27	CcC(Tiong)-AB-150126-03
PMAS4001A	NNTN7573A	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.59	3.27	2.17	1.88	1.25	CcC(Tiong)-AB-150126-04
PMAS4001A	NNTN7038B	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.57	-0.17	4.80	3.45	2.52	1.81	CcC(Tiong)-AB-150126-05
PMAS4001A	NNTN8092A	PMLN5709A tested w/ NTN8266B	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.19	4.90	3.53	2.57	1.85	CcC(Tiong)-AB-150126-06

Assessments at the Body with Body worn PMLN5709A and HLN6875A

DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 69 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 74

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.95	1.81	1.30	1.13	0.81	CcC(Tiong)-AB-150126-08
NAF5058A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.82	1.44	1.04	0.87	0.63	MO-AB-150126-09
NAR6594A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.27	2.94	2.12	1.57	1.13	MO-AB-150126-11
NAR6595A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.77	3.33	2.39	1.99	1.43	MO-AB-150126-12
PMAS4001A	PMNN4403B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.10	3.13	2.25	1.61	1.15	MO-AB-150126-13
Assessment of Additional Batteries											
NAR6595A	NNTN7034B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.60	-0.78	2.07	1.13	1.24	0.68	MO-AB-150126-14
NAR6595A	NNTN7573A	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.92	3.41	1.87	2.11	1.16	MO-AB-150126-15
NAR6595A	NNTN7038B	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.68	3.35	2.41	1.97	1.42	MO-AB-150126-16
NAR6595A	NNTN8092A	PMLN5709A tested w/ HLN6875A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.86	3.32	2.39	2.03	1.46	MO-AB-150126-17

Assessments at the Body with Body worn PMLN5657B and NTN5243A
 DUT assessment with offered antennas, default battery and, default body worn accessory per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 69 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 75

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.47	3.19	2.25	1.79	1.26	MO-AB-150126-18

TABLE 75 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAF5058A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.77	3.93	2.27	2.35	1.36	MO-AB-150126-19
NAR6594A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.59	-0.64	5.38	3.49	3.13	2.03	CcC(Tiong)-AB-150127-01
NAR6595A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.74	4.36	3.07	2.60	1.83	CcC(Tiong)-AB-150127-02
PMAS4001A	PMNN4403B	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125	3.60	-0.54	6.02	3.55	3.41	2.01	CcC(Tiong)-AB-150127-04
				860.5000							
				868.9875	3.57	-0.44	6.74	3.98	3.76	2.22	CcC(Tiong)-AB-150127-03
Assessment of Additional Batteries											
PMAS4001A	NNTN7038B	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.58	-0.57	7.10	4.20	4.07	2.41	CcC(Tiong)-AB-150127-05
PMAS4001A	NNTN8092A	PMLN5657B tested w/ NTN5243A	NNTN8203A	851.0125							
				860.5000							
				868.9875	3.57	-0.52	6.13	3.82	3.48	2.17	CcC(Tiong)-AB-150127-06

Assessment at the Body with other audio accessories

Assessment of additional audio accessories per “KDB 643646 Body SAR Test Consideration for Audio Accessories without Built-in Antenna” Section 1, A. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 76

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAS4001A	NNTN8092A	NTN8266B	NNTN8575A	851.0125							
				860.5000							
				868.9875	3.58	-0.57	9.30	5.43	5.33	3.11	CcC(Tiong)-AB-150127-07
PMAS4001A	NNTN8092A	NTN8266B	PMMN4084A	851.0125							
				860.5000							
				868.9875	3.57	-0.58	9.14	5.28	5.27	3.04	CcC(Tiong)-AB-150127-08
PMAS4001A	NNTN8092A	NTN8266B	PMMN4062A	851.0125							
				860.5000							
				868.9875	3.56	-0.62	8.37	4.84	4.88	2.82	CcC(Tiong)-AB-150127-09

TABLE 76 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
PMAS4001A	NNTN8092A	NTN8266B	NMN6274A	851.0125								
				860.5000								
				868.9875	3.59	-0.55	8.34	5.01	4.75	2.85	MO-AB-150127-11	
PMAS4001A	NNTN8092A	NTN8266B	PMLN5111A	851.0125								
				860.5000								
				868.9875	3.58	-0.71	8.68	5.16	5.14	3.06	MO-AB-150127-12	
PMAS4001A	NNTN8092A	NTN8266B	PMLN5101A	851.0125								
				860.5000								
				868.9875	3.58	-0.60	8.02	4.75	4.63	2.74	MO-AB-150127-13	
PMAS4001A	NNTN8092A	NTN8266B	PMLN5275C	851.0125								
				860.5000								
				868.9875	3.58	-0.72	8.05	4.78	4.78	2.84	MO-AB-150127-14	
PMAS4001A	NNTN8092A	NTN8266B	RLN5882A	851.0125								
				860.5000								
				868.9875	3.59	-0.60	8.12	4.85	4.67	2.79	MO-AB-150127-15	
PMAS4001A	NNTN8092A	NTN8266B	RMN5058A	851.0125								
				860.5000								
				868.9875	3.58	-0.72	8.53	5.11	5.06	3.03	MO-AB-150127-16	
PMAS4001A	NNTN8092A	NTN8266B	NNTN7869A tested w/ ZMN6038ASP01	851.0125								
				860.5000								
				868.9875	3.58	-0.69	7.68	4.62	4.53	2.72	MO-AB-150127-17	
PMAS4001A	NNTN8092A	NTN8266B	HMN4104B	851.0125								
				860.5000								
				868.9875	3.58	-0.55	8.53	5.12	4.87	2.92	MO-AB-150127-19	

Assessment of wireless BT configuration

Assessment using the overall highest SAR configuration at the body from above without an audio accessory attached. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 77

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
PMAS4001A	NNTN8092A	NTN8266B	NONE	851.0125							
				860.5000							
				868.9875	3.58	-0.77	8.10	4.89	4.86	2.94	MO-AB-150127-18

Assessment of PSM configuration

Battery NNTN7034B was selected as the default battery for assessments at the Body with Public Safety Microphone (PSM) because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range

(851-869 MHz) which are listed in Table 78. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 78

Test Freq (MHz)	Power (W)
851.0125	3.47
860.5000	3.51
868.9875	3.50

Assessment of offered PSM audio accessories per KDB 643646. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 79

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4059B	851.0125								
				860.5000	3.52	-0.60	2.36	1.50	1.39	0.88	KKL-AB-150129-12	
				868.9875								
NAR6595A				851.0125								
				860.5000	3.51	-0.71	2.55	1.59	1.54	0.96	MO-AB-150216-08	
				868.9875								
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4060B	851.0125								
				860.5000	3.50	-0.23	1.18	0.77	0.64	0.42	KKL-AB-150129-13	
				868.9875								
NAR6595A				851.0125								
				860.5000	3.50	-0.27	1.38	0.91	0.76	0.50	MO-AB-150216-09	
				868.9875								
PMAF4002A	NNTN7034B	4205823V08 REV.N	PMMN4061B	851.0125								
				860.5000	3.50	-0.22	2.35	1.52	1.27	0.82	KKL-AB-150129-14	
				868.9875								
NAR6595A				851.0125								
				860.5000	3.50	-0.22	1.98	1.24	1.07	0.67	MO-AB-150216-10	
				868.9875								

13.7 WLAN assessments at the Body for 802.11b/g/n (2.412 – 2.462 GHz)

The tables below represent the output power measurements for WLAN 2.4GHz 802.11b/g/n for assessments at the Body using battery PMNN4403B because it is the thinnest battery (refer to Exhibit 7B for battery illustration). These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227 D01 SAR Measurement Procedures for 802.11a/b/g/ Transmitters.

The battery was used during conducted power measurements for all test channels within FCC allocated frequency range (2.412 – 2.462 GHz) which are listed in Table

80. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

SAR is not required for 802.11 g/n when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2W/kg$.

In some cases the initial power listed herein may exceed the reported maximum power due to software step size tuning limitations. However, the initial powers measured are not greater than 5% of the reported maximum power.

TABLE 80

Mode	Channel #	Channel Frequency	Modulation	Battery: PMNN4403B	Antenna Max Power [mW]
				Antenna port[mW]	
802.11b (1Mbps)	1	2412	DSSS	47.16	56.20
	6	2437		45.76	
	11	2462		44.76	
802.11g (6Mbps)	1	2412	OFDM	20.66	22.40
	6	2437		20.16	
	11	2462		19.45	
802.11n (MCS0)	1	2412	OFDM	20.77	22.40
	6	2437		19.96	
	11	2462		19.26	

Assessments at the Body with all offered Body worn

DUT assessment with WLAN internal antenna, all offered batteries without any cable accessory attachment against phantom with all offered body worn. Refer to Table 80 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 81

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Body worn HLN6875A											
Internal WLAN Antenna	PMNN4403B	HLN6875A	None	2412	0.0471	2.38	0.0230	0.0110	0.0308	0.0147	CcC(Tiong)-AB-150130-02
	NNTN7034B				0.0471	-0.78	0.0091	0.0037	0.0146	0.0060	CcC(Tiong)-AB-150130-03
	NNTN7573B				0.0471	-0.46	0.0082	0.0042	0.0122	0.0062	CcC(Tiong)-AB-150130-04
	NNTN7038A				0.0471	0.19	0.0260	0.0140	0.0348	0.0188	MO-AB-150130-05
	NNTN8092A				0.0471	1.86	0.0140	0.0073	0.0188	0.0097	MO-AB-150130-06
Body worn NTN8266B											
Internal WLAN Antenna	PMNN4403B	NTN8266B	None	2412	0.0471	-1.53	0.0050	0.0023	0.0095	0.0043	MO-AB-150130-07
	NNTN7034B				0.0471	-0.07	0.0130	0.0073	0.0177	0.0099	MO-AB-150130-08
	NNTN7573A				0.0471	0.27	0.0110	0.0060	0.0147	0.0080	MO-AB-150130-09

TABLE 81 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Internal WLAN Antenna	NNTN7038B	NTN8266B	None	2412	0.0471	-0.16	0.0150	0.0076	0.0208	0.0105	MO-AB-150130-10
	NNTN8092A				0.0471	-2.77	0.0089	0.0041	0.0227	0.0104	MO-AB-150130-11
Body worn PMLN5657B											
Internal WLAN Antenna	PMNN4403B	PMLN5657B	None	2412	0.0471	6.79	0.0006	0.0001	0.0007	0.0002	MO-AB-150129-10
	NNTN7038B				0.0471	-1.45	0.0011	0.0004	0.0021	0.0007	MO-AB-150129-11
	NNTN8092A				0.0471	0.26	0.0011	0.0005	0.0014	0.0007	MO-AB-150129-12
Body worn PMLN5709A tested w/ NTN8266B											
Internal WLAN Antenna	PMNN4403B	PMLN5709A tested w/ NTN8266B	None	2412	0.0471	0.85	0.0005	0.0001	0.0006	0.0001	MO-AB-150130-12
	NNTN7034B				0.0471	-2.95	0.0016	0.0006	0.0042	0.0016	MO-AB-150130-13
	NNTN7573A				0.0471	-0.14	0.0028	0.0008	0.0038	0.0011	CcC(Tiong)-AB-150131-02
	NNTN7038B				0.0471	-2.38	0.0018	0.0005	0.0041	0.0010	CcC(Tiong)-AB-150131-03
	NNTN8092A				0.0471	-1.39	0.0015	0.0004	0.0028	0.0008	CcC(Tiong)-AB-150131-04
Body worn PMLN5709A tested w/ HLN6875A											
Internal WLAN Antenna	PMNN4403B	PMLN5709A tested w/ HLN6875A	None	2412	0.0471	-3.08	0.0059	0.0028	0.0159	0.0075	CcC(Tiong)-AB-150131-05
	NNTN7034B				0.0471	-1.38	0.0037	0.0015	0.0068	0.0028	CcC(Tiong)-AB-150131-06
	NNTN7573A				0.0471	-2.72	0.0041	0.0012	0.0102	0.0031	CcC(Tiong)-AB-150131-07
	NNTN7038B				0.0471	0.57	0.0260	0.0120	0.0348	0.0161	CcC(Tiong)-AB-150131-13
	NNTN8092A				0.0471	-4.57	0.0038	0.0013	0.0147	0.0051	CcC(Tiong)-AB-150131-09
Body worn PMLN5657B tested w/ NTN5243A											
Internal WLAN Antenna	PMNN4403B	PMLN5657B tested w/ NTN5243A	None	2412	0.0471	-1.15	0.0041	0.0016	0.0071	0.0028	CcC(Tiong)-AB-150131-10
	NNTN7038B				0.0471	-0.77	0.0067	0.0029	0.0106	0.0047	CcC(Tiong)-AB-150131-11
	NNTN8092A				0.0471	-3.31	0.0006	0.0001	0.0017	0.0003	CcC(Tiong)-AB-150131-12

Random drifts are due to low SAR values near or below the system noise threshold.

13.8 LMR assessments at the Face for 150.8-173.4 MHz band

Battery NNTN7034B was selected as the default battery for assessments at the Face because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (150.8-173.4 MHz) which are listed in Table 82. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 82

Test Freq (MHz)	Power (W)
150.8000	6.45
156.4500	6.46
162.1000	6.45
167.7500	6.44
173.4000	6.48

DUT assessment with offered antennas, default battery with front of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 82 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 83

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.41	-0.50	0.70	0.53	0.40	0.30	KKL-FACE-141216-02
NAR6593A	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.47	-0.32	0.81	0.61	0.44	0.34	KKL-FACE-141216-03
NAR6594A	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.41	-0.35	1.02	0.78	0.57	0.43	KKL-FACE-141216-04
PMAT4001A	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.58	-0.14	1.26	0.94	0.65	0.49	KKL-FACE-150209-03
Assessment of Additional Batteries											
NAR6594A	PMNN4403B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.46	-0.13	1.19	0.91	0.63	0.48	KKL-FACE-141216-09
NAR6594A	NNTN7573A	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.43	-0.29	1.04	0.79	0.57	0.43	KKL-FACE-141216-06

TABLE 83 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6594A	NNTN7038B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.44	-0.13	1.19	0.91	0.63	0.48	KKL-FACE-141216-07
NAR6594A	NNTN8092A	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.49	-0.17	1.18	0.91	0.62	0.48	KKL-FACE-141216-08

DUT assessment with offered antennas, default battery with back of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 82 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 84

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.44	-0.50	0.79	0.60	0.45	0.34	KKL-FACE-141216-10
NAR6593A	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.42	-0.17	0.95	0.73	0.51	0.39	KKL-FACE-141216-11
NAR6594A	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.49	-0.28	1.22	0.93	0.66	0.50	KKL-FACE-141216-12
PMAT4001A	NNTN7034B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.46	-0.14	1.19	0.91	0.63	0.48	KKL-FACE-141217-02

TABLE 84 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Assessment of Additional Batteries											
NAR6594A	PMNN4403B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.50	-0.23	1.33	1.01	0.71	0.54	KKL-FACE-141217-06
NAR6594A	NNTN7573A	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.49	-0.27	1.15	0.87	0.62	0.47	KKL-FACE-141217-03
NAR6594A	NNTN7038B	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.42	-0.29	1.32	1.01	0.73	0.56	KKL-FACE-141217-04
NAR6594A	NNTN8092A	NONE	NONE	150.8000							
				156.4500							
				162.1000							
				167.7500							
				173.4000	6.47	-0.37	1.32	1.00	0.73	0.55	KKL-FACE-141217-05

13.9 LMR assessments at the Face for 406.1-470 MHz band

Battery NNTN7034B was selected as the default battery for assessments at the Face because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (406.1-470 MHz) which are listed in Table 85. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 85

Test Freq (MHz)	Power (W)
406.1250	5.68
422.1000	5.68
438.1000	5.64
454.0000	5.64
470.0000	5.67

DUT assessment with offered antennas, default battery with front of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 85 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 86

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	406.1250	5.67	-0.30	2.07	1.52	1.11	0.82	KKL-FACE-150103-02
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	NNTN7034B	NONE	NONE	406.1250	5.65	-0.43	5.18	3.82	2.88	2.13	KKL-FACE-150103-03
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAT4001A	NNTN7034B	NONE	NONE	406.1250	5.68	-0.13	2.71	1.99	1.40	1.03	KKL-FACE-150103-04
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN7034B	NONE	NONE	406.1250	5.68	-0.04	2.62	1.93	1.33	0.98	KKL-FACE-150103-05
				422.1000							
				438.1000							
				454.0000							
				470.0000							
Assessment of Additional Batteries											
PMAS4001A	PMNN4403B	NONE	NONE	406.1250	5.70	-0.34	5.5	4.04	2.97	2.18	CcC(Tiong)-FACE-150105-03
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	NNTN7573A	NONE	NONE	406.1250	5.66	-0.33	4.45	3.33	2.42	1.81	KKL-FACE-150103-06
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	NNTN7038B	NONE	NONE	406.1250	5.70	-0.22	6.87	4.97	3.61	2.61	KKL-FACE-150204-08
				422.1000							
				438.1000							
				454.0000							
				470.0000							
PMAS4001A	NNTN8092A	NONE	NONE	406.1250	5.70	-0.30	5.21	3.82	2.79	2.05	CcC(Tiong)-FACE-150105-02
				422.1000							
				438.1000							
				454.0000							
				470.0000							

DUT assessment with offered antennas, default battery with back of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the

requirements of KDB 643646. Refer to Table 85 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 87

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
KT000026A01	NNTN7034B	NONE	NONE	406.1250	5.70	-0.34	2.31	1.67	1.25	0.90	CcC(Tiong)-FACE-150105-04	
				422.1000								
				438.1000								
				454.0000								
				470.0000								
PMAS4001A	NNTN7034B	NONE	NONE	406.1250	5.69	-0.37	5.36	3.91	2.92	2.13	CcC(Tiong)-FACE-150105-05	
				422.1000								
				438.1000								
				454.0000								
				470.0000								
PMAT4001A	NNTN7034B	NONE	NONE	406.1250	5.70	-0.41	3.83	2.78	2.10	1.53	CcC(Tiong)-FACE-150105-06	
				422.1000								
				438.1000								
				454.0000								
				470.0000								
FAF5259A	NNTN7034B	NONE	NONE	406.1250	5.60	-0.45	5.28	3.82	2.98	2.16	CcC(Tiong)-FACE-150106-03	
				422.1000								
				438.1000								
				454.0000								
				470.0000								
Assessment of Additional Batteries												
FAF5259A	PMNN4403B	NONE	NONE	406.1250	5.63	-0.31	7.25	5.3	3.94	2.88	CcC(Tiong)-FACE-150106-07	
				422.1000								
				438.1000								
				454.0000								
				470.0000								
FAF5259A	NNTN7573A	NONE	NONE	406.1250	5.65	-0.27	6.6	4.87	3.54	2.61	CcC(Tiong)-FACE-150106-04	
				422.1000								
				438.1000								
				454.0000								
				470.0000								

TABLE 87 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5259A	NNTN7038B	NONE	NONE	406.1250	5.63	-0.27	7.92	5.79	4.27	3.12	CcC(Tiong)-FACE-150106-05
				422.1000							
				438.1000							
				454.0000							
				470.0000							
FAF5259A	NNTN8092A	NONE	NONE	406.1250	5.60	-0.27	6.7	4.91	3.63	2.66	CcC(Tiong)-FACE-150106-06
				422.1000							
				438.1000							
				454.0000							
				470.0000							

13.10 LMR assessments at the Face for 450-512 MHz band

Battery NNTN7034B was selected as the default battery for assessments at the Face because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (450-512 MHz) which are listed in Table 88. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 88

Test Freq (MHz)	Power (W)
450.0000	5.64
465.5000	5.63
481.0000	5.65
496.5000	5.65
512.0000	5.63

DUT assessment with offered antennas, default battery with front of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 88 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 89

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	450.0000							
				465.5000							
				481.0000	5.63	-0.31	4.24	3.10	2.31	1.69	CcC-FACE-150205-03
				496.5000							
				512.0000							

TABLE 89 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
PMAS4001A	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.58	-0.26	2.34	1.73	1.27	0.94	MO-FACE-150107-15	
				496.5000								
				512.0000								
PMAT4001A	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.57	-0.95	2.99	2.21	1.90	1.41	MO-FACE-150107-16	
				496.5000								
				512.0000								
FAF5260A	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.60	-0.43	4.68	3.47	2.63	1.95	MO-FACE-150107-17	
				496.5000								
				512.0000								
Assessment of Additional Batteries												
FAF5260A	PMNN4403B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.59	-0.39	5.11	3.77	2.85	2.10	CcC(Tiong)-FACE-150108-02	
				496.5000								
				512.0000								
FAF5260A	NNTN7573A	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.58	-0.40	4.09	3.04	2.29	1.70	MO-FACE-150107-18	
				496.5000								
				512.0000								
FAF5260A	NNTN7038B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.58	-0.40	5.23	3.91	2.93	2.19	MO-FACE-150107-19	
				496.5000								
				512.0000								
FAF5260A	NNTN8092A	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.56	-0.47	5.29	3.93	3.02	2.24	MO-FACE-150107-20	
				496.5000								
				512.0000								

DUT assessment with offered antennas, default battery with back of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 88 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 90

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
KT000026A01	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.62	-0.61	3.52	2.62	2.05	1.53	CcC(Tiong)-FACE-150108-03	
				496.5000								
				512.0000								
PMAS4001A	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.60	-0.26	2.39	1.78	1.29	0.96	CcC(Tiong)-FACE-150108-04	
				496.5000								
				512.0000								
PMAT4001A	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.61	-0.90	2.83	2.1	1.77	1.31	CcC(Tiong)-FACE-150108-05	
				496.5000								
				512.0000								
FAF5260A	NNTN7034B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.63	-0.44	4.42	3.29	2.48	1.84	CcC(Tiong)-FACE-150108-06	
				496.5000								
				512.0000								
Assessment of Additional Batteries												
FAF5260A	PMNN4403B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.57	-0.40	5.47	4.02	3.07	2.26	MO-FACE-150108-10	
				496.5000								
				512.0000								
FAF5260A	NNTN7573A	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.59	-0.38	4.64	3.43	2.58	1.91	CcC(Tiong)-FACE-150108-07	
				496.5000								
				512.0000								
FAF5260A	NNTN7038B	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.61	-0.35	5.76	4.26	3.17	2.35	CcC(Tiong)-FACE-150108-08	
				496.5000								
				512.0000								
FAF5260A	NNTN8092A	NONE	NONE	450.0000								
				465.5000								
				481.0000	5.61	-0.49	5.39	3.97	3.07	2.26	MO-FACE-150108-09	
				496.5000								
				512.0000								

13.11 LMR assessments at the Face for 764-775 MHz band

Battery NNTN7034B was selected as the default battery for assessments at the Face because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (764-775 MHz) which are listed in Table 91. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 91

Test Freq (MHz)	Power (W)
764.0125	2.97
770.0000	2.97
774.9875	2.97

DUT assessment with offered antennas, default battery with front of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 91 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 92

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	764.0125	2.97	-0.17	1.35	1.00	0.71	0.52	KKL-FACE-141222-10
				770.0000							
				774.9875							
NAF5058A	NNTN7034B	NONE	NONE	764.0125	2.96	0.02	1.09	0.80	0.55	0.40	KKL-FACE-141222-11
				770.0000							
				774.9875							
NAR6594A	NNTN7034B	NONE	NONE	764.0125	2.96	-0.16	1.28	0.94	0.67	0.49	KKL-FACE-141223-01
				770.0000							
				774.9875							
NAR6595A	NNTN7034B	NONE	NONE	764.0125	2.95	-0.24	1.55	1.14	0.83	0.61	KKL-FACE-141223-02
				770.0000							
				774.9875							
PMAS4001A	NNTN7034B	NONE	NONE	764.0125	2.96	-0.28	0.81	0.59	0.44	0.32	KKL-FACE-141223-03
				770.0000							
				774.9875							
Assessment of Additional Batteries											
NAR6595A	PMNN4403B	NONE	NONE	764.0125	2.96	-0.30	3.94	2.90	2.13	1.57	KKL-FACE-141223-07
				770.0000							
				774.9875							
NAR6595A	NNTN7573A	NONE	NONE	764.0125	2.95	-0.26	1.77	1.27	0.95	0.68	KKL-FACE-141223-04
				770.0000							
				774.9875							

TABLE 92 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN7038B	NONE	NONE	764.0125	2.96	-0.25	3.96	2.91	2.12	1.56	KKL-FACE-141223-05
				770.0000							
				774.9875							
NAR6595A	NNTN8092A	NONE	NONE	764.0125	2.94	-0.26	4.30	3.13	2.32	1.69	MO-FACE-150210-10
				770.0000							
				774.9875							

DUT assessment with offered antennas, default battery with back of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 91 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 93

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	764.0125	2.96	-0.16	1.96	1.43	1.03	0.75	KKL-FACE-141223-08
				770.0000							
				774.9875							
NAF5058A	NNTN7034B	NONE	NONE	764.0125	2.97	-0.28	1.49	1.09	0.80	0.59	KKL-FACE-141223-09
				770.0000							
				774.9875							
NAR6594A	NNTN7034B	NONE	NONE	764.0125	2.96	-0.22	2.27	1.66	1.21	0.88	KKL-FACE-141223-11
				770.0000							
				774.9875							
NAR6595A	NNTN7034B	NONE	NONE	764.0125	2.96	-0.12	2.70	1.98	1.40	1.03	KKL-FACE-141223-12
				770.0000							
				774.9875							
PMAS4001A	NNTN7034B	NONE	NONE	764.0125	2.96	-0.35	1.26	0.92	0.69	0.51	KKL-FACE-141223-13
				770.0000							
				774.9875							
Assessment of Additional Batteries											
NAR6595A	PMNN4403B	NONE	NONE	764.0125	2.96	-0.29	3.92	2.89	2.12	1.56	KKL-FACE-141224-02
				770.0000							
				774.9875							
NAR6595A	NNTN7573A	NONE	NONE	764.0125	2.96	-0.27	2.95	2.14	1.59	1.15	KKL-FACE-141223-14
				770.0000							
				774.9875							
NAR6595A	NNTN7038B	NONE	NONE	764.0125	2.96	-0.28	4.59	3.37	2.47	1.82	KKL-FACE-141223-15
				770.0000							
				774.9875							
NAR6595A	NNTN8092A	NONE	NONE	764.0125	2.96	-0.31	4.16	3.06	2.26	1.66	KKL-FACE-141224-01
				770.0000							
				774.9875							

13.12 LMR assessments at the Face for 794-824 MHz band

Battery NNTN7034B was selected as the default battery for assessments at the Face because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (794-824 MHz) which are listed in Table 94. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 94

Test Freq (MHz)	Power (W)
794.0125	2.98
808.5000	3.58
823.9875	3.55

DUT assessment with offered antennas, default battery with front of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 94 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 95

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.58	-0.27	1.95	1.39	1.04	0.74	KKL-FACE-141224-03
				823.9875							
NAF5058A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.56	-0.28	2.05	1.48	1.11	0.80	KKL-FACE-141224-04
				823.9875							
NAR6594A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.53	-0.31	1.52	1.10	0.83	0.60	KKL-FACE-141224-05
				823.9875							
NAR6595A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.53	-0.34	2.15	1.57	1.19	0.87	KKL-FACE-141224-06
				823.9875							
PMAS4001A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.58	-0.26	1.90	1.36	1.01	0.73	KKL-FACE-141226-02
				823.9875							
Assessment of Additional Batteries											
NAR6595A	PMNN4403B	NONE	NONE	794.0125							
				808.5000	3.57	-0.26	4.92	3.58	2.63	1.92	KKL-FACE-141226-06
				823.9875							
NAR6595A	NNTN7573A	NONE	NONE	794.0125							
				808.5000	3.57	-0.27	2.52	1.80	1.35	0.97	KKL-FACE-141226-03
				823.9875							

TABLE 95 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN7038B	NONE	NONE	794.0125							
				808.5000	3.56	-0.26	4.66	3.38	2.50	1.81	KKL-FACE-141226-04
				823.9875							
NAR6595A	NNTN8092A	NONE	NONE	794.0125							
				808.5000	3.56	-0.30	4.71	3.43	2.55	1.86	KKL-FACE-141226-05
				823.9875							

DUT assessment with offered antennas, default battery with back of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 94 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 96

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.58	-0.24	2.93	2.12	1.56	1.13	KKL-FACE-141226-07
				823.9875							
NAF5058A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.58	-0.25	2.59	1.86	1.38	0.99	KKL-FACE-141226-08
				823.9875							
NAR6594A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.54	-0.31	1.81	1.31	0.99	0.72	KY(Tiong)-FACE-141229-02
				823.9875							
NAR6595A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.62	-0.30	3.46	2.51	1.85	1.34	KY(Tiong)-FACE-141229-03
				823.9875							
PMAS4001A	NNTN7034B	NONE	NONE	794.0125							
				808.5000	3.59	-0.24	2.87	2.04	1.52	1.08	KY(Tiong)-FACE-141229-04
				823.9875							
Assessment of Additional Batteries											
NAR6595A	PMNN4403B	NONE	NONE	794.0125							
				808.5000	3.57	-0.24	4.70	3.43	2.50	1.83	KY-FACE-141229-08
				823.9875							
NAR6595A	NNTN7573A	NONE	NONE	794.0125							
				808.5000	3.60	-0.13	3.34	2.37	1.72	1.22	KY(Tiong)-FACE-141229-05
				823.9875							
NAR6595A	NNTN7038B	NONE	NONE	794.0125							
				808.5000	3.60	-0.26	5.26	3.83	2.79	2.03	KY(Tiong)-FACE-141229-06
				823.9875							

TABLE 96 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6595A	NNTN8092A	NONE	NONE	794.0125							
				808.5000	3.60	-0.32	4.91	3.59	2.64	1.93	KY(Tiong)-FACE-141229-07
				823.9875							

13.13 LMR assessments at the Face for 851-869 MHz band

Battery NNTN7034B was selected as the default battery for assessments at the Face because it has the highest capacity (refer to Exhibit 7B for battery illustration). The default battery was used during conducted power measurements for all test channels within FCC allocated frequency range (851-869 MHz) which are listed in Table 97. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 97

Test Freq (MHz)	Power (W)
851.0125	3.57
860.5000	3.58
868.9875	3.59

DUT assessment with offered antennas, default battery with front of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 97 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 98

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.59	-0.55	1.10	0.78	0.63	0.45	KY-FACE-141229-09
NAF5058A	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.59	-0.85	2.33	1.66	1.42	1.01	KY-FACE-141229-10
NAR6594A	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.58	-0.50	1.69	1.21	0.95	0.68	CcC(Tiong)-FACE-141230-04
NAR6595A	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.57	-0.66	1.34	0.95	0.79	0.56	CcC(Tiong)-FACE-141230-05

TABLE 98 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
PMAS4001A	NNTN7034B	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.57	-0.89	1.94	1.36	1.20	0.84	CcC(Tiong)-FACE-141230-06	
Assessment of Additional Batteries												
NAF5058A	PMNN4403B	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.60	-0.59	2.33	1.66	1.33	0.95	CcC(Tiong)-FACE-141230-10	
NAF5058A	NNTN7573A	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.58	-0.79	2.39	1.71	1.44	1.03	CcC(Tiong)-FACE-141230-07	
NAF5058A	NNTN7038B	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.59	-0.64	2.36	1.68	1.37	0.98	CcC(Tiong)-FACE-141230-08	
NAF5058A	NNTN8092A	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.59	-0.71	2.22	1.58	1.31	0.93	CcC(Tiong)-FACE-141230-09	

DUT assessment with offered antennas, default battery with back of DUT positioned 2.5cm facing phantom per KDB 643646. Optional batteries were tested per the requirements of KDB 643646. Refer to Table 97 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 99

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
KT000026A01	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.58	-1.00	1.33	0.94	0.84	0.59	CcC(Tiong)-FACE-141231-02
NAF5058A	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.56	-0.70	2.79	1.98	1.66	1.18	CcC(Tiong)-FACE-141231-03
NAR6594A	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.60	-0.54	1.92	1.36	1.09	0.77	CcC(Tiong)-FACE-141231-04
NAR6595A	NNTN7034B	NONE	NONE	851.0125							
				860.5000							
				868.9875	3.60	-0.69	1.76	1.23	1.03	0.72	CcC(Tiong)-FACE-141231-05

TABLE 99 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#	
PMAS4001A	NNTN7034B	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.60	-0.82	2.49	1.72	1.50	1.04	CcC(Tiong)-FACE-141231-06	
Assessment of Additional Batteries												
NAF5058A	PMNN4403B	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.58	-0.81	2.68	1.89	1.62	1.15	CcC(Tiong)-FACE-141231-10	
NAF5058A	NNTN7573A	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.60	-0.71	2.91	2.05	1.71	1.21	CcC(Tiong)-FACE-141231-07	
NAF5058A	NNTN7038B	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.56	-0.63	2.70	1.91	1.58	1.12	CcC(Tiong)-FACE-141231-08	
NAF5058A	NNTN8092A	NONE	NONE	851.0125								
				860.5000								
				868.9875	3.60	-0.73	2.68	1.89	1.59	1.12	CcC(Tiong)-FACE-141231-09	

13.14 WLAN assessments at the Face for 802.11b/g/n (2.412 – 2.462 GHz)

The tables below represent the output power measurements for WLAN 2.4GHz 802.11b/g/n for assessments at the Face using battery NNTN7034B because it has the highest capacity (refer to Exhibit 7B for battery illustration). These power measurements were used to determine the necessary modes for SAR testing according to KDB 248227 D01 SAR Measurement Procedures for 802.11a/b/g/Transmitters.

The battery was used during conducted power measurements for all test channels within FCC allocated frequency range (2.412 – 2.462 GHz) which are listed in Table 100. The channel with the highest conducted power will be identified as the default channel per KDB 643646 (SAR Test for PTT Radios). SAR plots of the highest results per Table (bolded) are presented in Appendix E.

SAR is not required for 802.11 g/n when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2W/kg.

In some cases the initial power listed herein may exceed the reported maximum power due to software step size tuning limitations. However, the initial powers measured are not greater than 5% of the reported maximum power.

TABLE 100

Mode	Channel #	Channel Frequency	Modulation	Battery: NNTN7034B	Antenna Max Power [mW]
				Antenna port[mW]	
802.11b (1Mbps)	1	2412	DSSS	47.46	56.20
	6	2437		45.86	
	11	2462		44.76	
802.11g (6Mbps)	1	2412	OFDM	20.97	22.40
	6	2437		20.26	
	11	2462		19.25	
802.11n (MCS0)	1	2412	OFDM	20.87	22.40
	6	2437		19.96	
	11	2462		19.06	

DUT assessment with WLAN internal antenna using all offered batteries with front and back of the DUT 2.5 cm from the phantom. Refer to Table 100 for highest output power channel. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 101

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Front of DUT											
Internal WLAN Antenna	NNTN7034B	NONE	NONE	2412	0.0474	0.08	0.1090	0.0610	0.1451	0.0812	CcC(Tiong)-FACE-150202-02
	NNTN7038B				0.0474	-0.29	0.0940	0.0540	0.1337	0.0768	CcC(Tiong)-FACE-150202-03
	NNTN8092A				0.0474	0.04	0.1140	0.0650	0.1517	0.0865	CcC(Tiong)-FACE-150202-04
	PMNN4403B				0.0474	0.44	0.1200	0.0710	0.1597	0.0945	CcC(Tiong)-FACE-150202-05
	NNTN7573A				0.0474	0.21	0.1170	0.0660	0.1557	0.0878	CcC(Tiong)-FACE-150202-06
Back of DUT											
Internal WLAN Antenna	NNTN7034B	NONE	NONE	2412	0.0474	-1.65	0.0440	0.0250	0.0856	0.0486	MO-FACE-150128-09
	NNTN7038B				0.0474	-1.49	0.0360	0.0200	0.0675	0.0375	MO-FACE-150128-10
	NNTN8092A				0.0474	-1.72	0.0430	0.0250	0.0850	0.0494	MO-FACE-150128-11
	PMNN4403B				0.0474	-1.40	0.0460	0.0250	0.0845	0.0459	MO-FACE-150128-12
	NNTN7573A				0.0474	-1.57	0.0380	0.0210	0.0726	0.0401	MO-FACE-150129-03

13.15 Assessment for Industry Canada

Based on the assessment results for body and face per KDB643646, additional tests were required for Industry Canada frequency range (138-174 MHz). The overall highest test configuration from 150.8-173.4 MHz band was repeated with test frequencies 139.7 MHz, 143.4 MHz, and 147.1 MHz. The SAR results are in Table 102 (Body) and Table 103 (Head) below. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 102

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Body											
KT000026A01	NNTN7573A	HLN6875A	NONE	139.7000	6.57	-0.4	10.30	3.42	5.67	1.88	MO-AB-150205-06
				143.4000	6.57	-0.24	7.65	2.53	4.06	1.34	MO-AB-150205-07
				147.1000	6.59	-0.14	5.68	1.97	2.94	1.02	MO-AB-150205-08
NAR6593A	NNTN7573A	HLN6875A	NONE	139.7000	6.57	-0.53	6.18	2.39	3.51	1.36	MO-AB-150205-10
				143.4000	6.56	-0.25	7.12	2.44	3.79	1.30	MO-AB-150205-11
				147.1000	6.55	-0.09	6.94	2.28	3.57	1.17	MO-AB-150205-12
NAR6594A	NNTN7573A	HLN6875A	NONE	139.7000	6.52	-0.09	8.96	3.22	4.63	1.66	MO-AB-150207-06
				143.4000	6.56	-0.53	6.58	2.57	3.74	1.46	CcC(Tiong)-AB-150206-04
				147.1000	6.57	-0.27	6.50	2.27	3.47	1.21	CcC(Tiong)-AB-150206-05
PMAT4001A	NNTN7573A	HLN6875A	NONE	139.7000	6.59	-0.52	12.20	4.16	6.89	2.35	CcC(Tiong)-AB-150206-07
				143.4000	6.55	-0.45	8.60	2.89	4.81	1.61	MO-AB-150206-08
				147.1000	6.57	-0.12	6.71	2.38	3.46	1.23	MO-AB-150206-09

TABLE 103

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Face; Front of DUT											
KT000026A01	NNTN7038B	NONE	NONE	139.7000	6.53	-0.1	1.94	1.47	1.00	0.76	CcC(Tiong)-FACE-150120-02
				143.4000	6.51	-0.36	1.53	1.18	0.84	0.65	KKL-FACE-141221-04
				147.1000	6.48	-0.10	1.14	0.87	0.59	0.45	KKL-FACE-141221-05
NAR6593A	NNTN7038B	NONE	NONE	139.7000	6.53	-0.69	1.98	1.50	1.17	0.89	CcC(Tiong)-FACE-150120-04
				143.4000	6.50	-0.29	1.36	1.05	0.74	0.57	KKL-FACE-141221-08
				147.1000	6.57	-0.11	1.08	0.83	0.56	0.43	KKL-FACE-141221-09
NAR6594A	NNTN7038B	NONE	NONE	139.7000	6.47	-0.12	0.84	0.64	0.44	0.34	KKL-FACE-141222-02
				143.4000	6.45	-0.03	1.33	1.02	0.69	0.53	KKL-FACE-141222-03
				147.1000	6.50	-0.25	1.30	1.00	0.70	0.54	KKL-FACE-141222-04
PMAT4001A	NNTN7038B	NONE	NONE	139.7000	6.57	-0.14	1.37	1.05	0.71	0.54	KKL-FACE-141222-06
				143.4000	6.51	-0.61	1.97	1.50	1.15	0.88	CcC(Tiong)-FACE-150119-03
				147.1000	6.48	-0.29	1.48	1.13	0.81	0.62	KKL-FACE-141222-08
Face; Back of DUT											
KT000026A01	NNTN8092A	NONE	NONE	139.7000	6.60	-0.05	2.15	1.63	1.09	0.82	KKL-FACE-150119-07
				143.4000	6.58	-0.38	1.68	1.29	0.92	0.71	KKL-FACE-141217-09
				147.1000	6.45	-0.10	1.32	1.01	0.69	0.53	KKL-FACE-141217-10
NAR6593A	NNTN8092A	NONE	NONE	139.7000	6.47	-0.56	1.90	1.45	1.10	0.84	KKL-FACE-141217-13
				143.4000	6.47	-0.26	1.46	1.12	0.79	0.61	KKL-FACE-141218-02
				147.1000	6.53	-0.07	1.18	0.90	0.61	0.46	KKL-FACE-141218-03

TABLE 103 (continued)

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
NAR6594A	NNTN8092A	NONE	NONE	139.7000	6.47	-0.11	1.09	0.82	0.57	0.43	KKL-FACE-141218-05
				143.4000	6.56	-0.54	1.56	1.19	0.89	0.68	KKL-FACE-141218-06
				147.1000	6.47	-0.25	1.41	1.08	0.76	0.58	KKL-FACE-141218-07
PMAT4001A	NNTN8092A	NONE	NONE	139.7000	6.53	-0.12	1.79	1.37	0.93	0.71	KKL-FACE-141218-09
				143.4000	6.60	-0.44	2.28	1.73	1.26	0.96	KKL-FACE-150119-05
				147.1000	6.51	-0.20	1.59	1.21	0.84	0.64	KKL-FACE-141218-11

13.16 Assessment at the Bluetooth band

Per guidelines in KDB 447498, the following formula was used to determine the test exclusion for standalone Bluetooth transmitter;

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{F_{(\text{GHz})}}] = 2.4, \text{ which is } \leq 3 \text{ for 1-g SAR}$$

Where:

Max. power = 7.61 mW (10 mW*76.1% duty cycle)

Min. test separation distance = 5 mm for actual test separation < 5 mm

F(GHz) = 2.48 GHz

Per the result from the calculation above, the standalone SAR assessment was not required for Bluetooth band. Therefore, SAR results for Bluetooth are not reported herein.

13.17 Assessment outside FCC Part 90

Assessment of outside FCC Part 90 and Industry Canada frequencies using the highest SAR configuration for each band from above. SAR plots of the highest results per Table (bolded) are presented in Appendix E.

TABLE 104

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Body											
KT000026A01	NNTN7573A	HLN6875A	NNTN8203A	136.0000	6.60	-0.10	8.17	3.20	4.18	1.64	CcC(Tiong)-AB-150205-05
NAR6593A	NNTN7573A	HLN6875A	NNTN8203A	136.0000	6.60	-0.36	11.80	4.04	6.41	2.19	MO-AB-150205-09
NAR6594A	NNTN7573A	HLN6875A	NNTN8203A	136.0000	6.60	-0.10	6.66	2.37	3.41	1.21	CcC(Tiong)-AB-150206-02
PMAT4001A	NNTN7573A	HLN6875A	NNTN8203A	136.0000	6.60	-0.16	10.90	3.76	5.65	1.95	CcC(Tiong)-AB-150206-06

TABLE 105

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Face; Front of DUT											
KT000026A01	NNTN7038B	NONE	NONE	136.0000	6.58	-0.32	1.23	0.94	0.66	0.51	KKL-FACE-141221-02
NAR6593A	NNTN7038B	NONE	NONE	136.0000	6.57	-0.07	1.26	0.97	0.64	0.49	KKL-FACE-141221-06
NAR6594A	NNTN7038B	NONE	NONE	136.0000	6.56	-0.27	0.79	0.61	0.42	0.33	KKL-FACE-141221-10
PMAT4001A	NNTN7038B	NONE	NONE	136.0000	6.52	-0.38	1.28	0.98	0.71	0.54	KKL-FACE-141222-05
Face; Back of DUT											
KT000026A01	NNTN8092A	NONE	NONE	136.0000	6.58	-0.25	1.47	1.13	0.78	0.60	KKL-FACE-141217-07
NAR6593A	NNTN8092A	NONE	NONE	136.0000	6.58	-0.10	1.61	1.24	0.83	0.64	KKL-FACE-141217-12
NAR6594A	NNTN8092A	NONE	NONE	136.0000	6.51	-0.32	0.91	0.69	0.50	0.38	KKL-FACE-141218-04
PMAT4001A	NNTN8092A	NONE	NONE	136.0000	6.58	-0.25	1.54	1.18	0.82	0.63	KKL-FACE-141218-08

TABLE 106

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Body											
KT000026A01	NNTN7038B	NTN8266B	NNTN8575A	380.0000	5.70	-0.19	3.73	2.53	1.95	1.32	MO-AB-150201-11
	NNTN7038B	NTN8266B	NNTN8575A	393.1000	5.70	-0.32	4.86	3.31	2.62	1.78	MO-AB-150201-12
	PMNN4403B	NTN8266B	None	516.0000	5.70	-0.35	3.61	2.36	1.96	1.28	KKL-AB-150202-10
	PMNN4403B	NTN8266B	None	520.0000	5.68	-0.37	3.08	2.02	1.68	1.10	KKL-AB-150202-11
PMAS4001A	NNTN7038B	NTN8266B	NNTN8575A	380.0000	5.70	-0.13	7.53	5.18	3.88	2.67	MO-AB-150201-14
	NNTN7038B	NTN8266B	NNTN8575A	393.1000	5.70	-0.19	11.80	8.06	6.16	4.21	MO-AB-150201-13
	PMNN4403B	NTN8266B	None	516.0000	5.70	-0.15	4.99	3.29	2.58	1.70	KKL-AB-150202-12
	PMNN4403B	NTN8266B	None	520.0000	5.67	-0.14	4.94	3.27	2.56	1.70	KKL-AB-150202-13
PMAT4001A	NNTN7038B	NTN8266B	NNTN8575A	380.0000	5.70	-0.13	6.15	4.20	3.17	2.16	MO-AB-150201-15
	NNTN7038B	NTN8266B	NNTN8575A	393.1000	5.70	-0.20	8.16	5.54	4.27	2.90	MO-AB-150201-16
	PMNN4403B	NTN8266B	None	516.0000	5.70	-0.85	1.53	1.01	0.93	0.61	KKL-AB-150202-14
	PMNN4403B	NTN8266B	None	520.0000	5.67	-1.19	0.97	0.64	0.64	0.42	KKL-AB-150202-15
FAF5259A	NNTN7038B	NTN8266B	NNTN8575A	380.0000	5.67	-0.19	5.73	3.93	3.01	2.06	MO-AB-150201-17
	NNTN7038B	NTN8266B	NNTN8575A	393.1000	5.70	0.00	10.50	7.15	5.25	3.58	MO-AB-150201-18
FAF5260A	PMNN4403B	NTN8266B	None	516.0000	5.70	-0.23	8.01	5.29	4.22	2.79	KKL-AB-150202-16
	PMNN4403B	NTN8266B	None	520.0000	5.69	-0.19	7.85	5.14	4.11	2.69	KKL-AB-150202-17

TABLE 107

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
Face; Front of DUT											
KT000026A01	NNTN7038B	NONE	NONE	380.0000	5.69	-0.32	1.41	1.04	0.76	0.56	CcC(Tiong)-FACE-150106-12
				393.1000	5.68	-0.55	1.86	1.37	1.06	0.78	CcC(Tiong)-FACE-150106-13
	NNTN8092A	NONE	NONE	516.0000	5.53	-0.52	1.55	1.14	0.90	0.66	MO-FACE-150108-11
				520.0000	5.50	-0.49	1.4	1.02	0.81	0.59	MO-FACE-150108-12
PMAS4001A	NNTN7038B	NONE	NONE	380.0000	5.70	-0.10	3.94	2.90	2.02	1.48	CcC(Tiong)-FACE-150107-04
				393.1000	5.70	-0.17	6.80	4.94	3.54	2.57	KKL-FACE-150204-07
	NNTN8092A	NONE	NONE	516.0000	5.52	-0.29	1.79	1.31	0.99	0.72	MO-FACE-150108-15
				520.0000	5.51	-0.26	1.72	1.26	0.94	0.69	MO-FACE-150108-16
PMAT4001A	NNTN7038B	NONE	NONE	380.0000	5.70	-0.22	2.25	1.66	1.18	0.87	CcC(Tiong)-FACE-150107-08
				393.1000	5.70	-0.32	3.00	2.20	1.61	1.18	CcC(Tiong)-FACE-150107-09
	NNTN8092A	NONE	NONE	516.0000	5.53	-0.94	0.71	0.52	0.46	0.34	MO-FACE-150108-19
				520.0000	5.47	-1.08	0.479	0.35	0.32	0.23	CcC(Tiong)-FACE-150109-02
FAF5259A	NNTN7038B	NONE	NONE	380.0000	5.70	-0.29	2.16	1.59	1.15	0.85	MO-FACE-150107-12
				393.1000	5.70	-0.17	3.43	2.52	1.78	1.31	MO-FACE-150107-13
FAF5260A	NNTN8092A	NONE	NONE	516.0000	5.51	-0.28	3.51	2.59	1.94	1.43	CcC(Tiong)-FACE-150109-05
				520.0000	5.50	-0.35	3.35	2.46	1.88	1.38	CcC(Tiong)-FACE-150109-06
Face; Back of DUT											
KT000026A01	NNTN7038B	NONE	NONE	380.0000	5.65	-0.26	1.86	1.37	1.00	0.73	CcC(Tiong)-FACE-150106-10
				393.1000	5.66	-0.53	2.49	1.83	1.42	1.04	CcC(Tiong)-FACE-150106-11
				516.0000	5.50	-0.44	1.81	1.32	1.04	0.76	MO-FACE-150108-13
				520.0000	5.50	-0.40	1.63	1.19	0.93	0.68	MO-FACE-150108-14
PMAS4001A	NNTN7038B	NONE	NONE	380.0000	5.69	-0.15	5.16	3.77	2.68	1.95	CcC-FACE-150107-02
				393.1000	5.69	-0.28	7.28	5.31	3.89	2.84	CcC(Tiong)-FACE-150107-03
				516.0000	5.52	-0.25	2.09	1.52	1.14	0.83	MO-FACE-150108-17
				520.0000	5.52	-0.26	2.09	1.53	1.15	0.84	MO-FACE-150108-18
PMAT4001A	NNTN7038B	NONE	NONE	380.0000	5.69	-0.28	3.31	2.42	1.77	1.29	CcC(Tiong)-FACE-150107-06
				393.1000	5.70	-0.35	4.09	3.00	2.22	1.63	CcC(Tiong)-FACE-150107-07
				516.0000	5.51	-0.90	0.81	0.60	0.52	0.38	CcC(Tiong)-FACE-150109-03
				520.0000	5.50	-0.64	0.54	0.39	0.32	0.24	CcC(Tiong)-FACE-150109-04
FAF5259A	NNTN7038B	NONE	NONE	380.0000	5.70	-0.25	2.88	2.10	1.53	1.11	MO-FACE-150107-10
				393.1000	5.70	-0.13	4.86	3.55	2.50	1.83	MO-FACE-150107-11
FAF5260A	NNTN7038B	NONE	NONE	516.0000	5.51	-0.27	3.88	2.84	2.14	1.56	CcC(Tiong)-FACE-150109-07
				520.0000	5.48	-0.23	3.73	2.74	2.05	1.50	CcC(Tiong)-FACE-150109-08

13.18 Shortened Scan Assessment

A “shortened” scan using the highest SAR configuration overall from above was performed to validate the SAR drift of the full DASY5™ coarse and zoom scans. Note that the shortened scan represents the zoom scan performance result; this is obtained by first running a coarse scan to find the peak area and then, using a newly charged battery, a zoom scan only was performed. The results of the shortened cube scan presented in Appendix D demonstrate that the scaling methodology used to determine the calculated SAR results presented herein are valid. The SAR result from the Table below is provided in Appendix F.

TABLE 108

Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Meas. 10g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Max Calc. 10g-SAR (W/kg)	Run#
FAF5260A	PMNN4403B	NTN8266B	None	450.0000	5.70	-0.27	14.70	9.92	7.82	5.28	KKL-AB-150203-09

14.0 Simultaneous Transmission Exclusion for BT

Per guidelines in KDB 447498, the following formula was used to determine the test exclusion to an antenna that transmits simultaneously with other antennas for test distances ≤ 50mm:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{F(\text{GHz}) / X}] = 0.3, \text{ which is } \leq 0.4 \text{ W/kg (1g)}$$

Where:

X = 7.5 for 1g-SAR; 18.75 for 10g

Max. power = 7.61 mW (10 mW*76.1% duty cycle)

Min. test separation distance = 5 mm for actual test separation < 5 mm

F(GHz) = 2.48 GHz

The estimated SAR 0.3W/kg is overly conservative. Refer to sections 15.0 and 16.0 for simultaneous results.

15.0 Simultaneous Transmission between LMR and WLAN/BT

This device uses a single transmitter module and antenna for both WLAN and BT. WLAN and BT cannot transmit simultaneously. The maximum sourced-based time-averaged output power for tested 802.11b is 63.1mW while the BT is 7.6mW. Therefore the measured SAR from 802.11b is used in conjunction with LMR for simultaneous results.

The Table below summarizes the simultaneous transmissions between LMR and WLAN bands.

TABLE 109

Freq. (MHz)	LMR Bands			
	VHF (136-174 MHz)	UHF1 (380-470 MHz)	UHF2 (450-520 MHz)	700/800
WLAN/BT Band 2400 - 2483.5	√	√	√	√

16.0 Results Summary

Based on the test guidelines from section 4.0 and satisfying frequencies within FCC bands and Industry Canada Frequency bands, the highest Operational Maximum Calculated 1-gram and 10-gram average SAR values found for this filing:

TABLE 110

Designator	Frequency band (MHz)	Max Calc at Body (W/kg)		Max Calc at Face (W/kg)	
		1g-SAR	10g-SAR	1g-SAR	10g-SAR
FCC					
LMR	150.8-173.4	3.53	1.16	0.73	0.55
LMR	406.1-470	7.40	5.05	4.27	3.12
LMR	450-512	7.91	5.36	3.17	2.35
LMR	7/800	7.08	4.35	2.79	2.03
WLAN	2400 - 2483.5	0.0348	0.0188	0.1597	0.0945
Industry Canada					
LMR	138-174	6.89	2.35	1.26	0.96
LMR	406.1-430	7.40	5.05	4.27	3.12
LMR	450-470	7.91	5.36	*NA	*NA
LMR	7/800	7.08	4.35	2.79	2.03
WLAN	2400 - 2483.5	0.0348	0.0188	0.1597	0.0945
Overall					
LMR	136-174	6.89	2.35	1.26	0.96
LMR	380-470	7.40	5.05	4.27	3.12
LMR	450-520	7.91	5.36	3.17	2.35
LMR	7/800	7.08	4.35	2.79	2.03
WLAN	2400 - 2483.5	0.0348	0.0188	0.1597	0.0945

All results are scaled to the maximum output power.
 *Frequency not selected for test from KDB

The SAR results for simultaneous is indicated in the following Table:

TABLE 111

Designator	Frequency band	1-g SAR (W/kg)	10-g SAR (W/kg)
Body			
FCC	LMR (VHF) and WLAN bands	3.56	1.18
	LMR (UHF1) and WLAN bands	7.43	5.07
	LMR (UHF2) and WLAN bands	7.94	5.38
	LMR (7/800) and WLAN bands	7.11	4.37
Industry Canada	LMR (VHF) and WLAN bands	6.92	2.37
	LMR (UHF1) and WLAN bands	7.43	5.07
	LMR (UHF2) and WLAN bands	7.94	5.38
	LMR (7/800) and WLAN bands	7.11	4.37

TABLE 111 (continued)

Designator	Frequency band	1-g SAR (W/kg)	10-g SAR (W/kg)
Body			
Overall	LMR (VHF) and WLAN bands	6.92	2.37
	LMR (UHF1) and WLAN bands	7.43	5.07
	LMR (UHF2) and WLAN bands	7.94	5.38
	LMR (7/800) and WLAN bands	7.11	4.37
Face			
FCC	LMR (VHF) and WLAN bands	0.89	0.64
	LMR (UHF1) and WLAN bands	4.43	3.21
	LMR (UHF2) and WLAN bands	3.33	2.44
	LMR (7/800) and WLAN bands	2.95	2.12
Industry Canada	LMR (VHF) and WLAN bands	1.42	1.05
	LMR (UHF1) and WLAN bands	4.43	3.21
	LMR (UHF2) and WLAN bands	3.33	2.44
	LMR (7/800) and WLAN bands	2.95	2.12
Overall	LMR (VHF) and WLAN bands	1.42	1.05
	LMR (UHF1) and WLAN bands	4.43	3.21
	LMR (UHF2) and WLAN bands	3.33	2.44
	LMR (7/800) and WLAN bands	2.95	2.12

All results are scaled to the maximum output power.

*Frequency not selected for test from KDB

The test results clearly demonstrate compliance with FCC Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of OET Bulletin 65. The 10 grams result is not applicable to FCC filing.

17.0 Variability Assessment

Per the guidelines in KDB 865664 SAR variability assessment is required because SAR results are above 4.0 W/kg (Occupational).

The Table below includes test results of the original measurement(s), the repeated measurement(s), and the ratio (SAR_{high}/SAR_{low}) for the applicable test configuration(s).

TABLE 112

Run#	Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq. (MHz)	Adj Calc. 1g-SAR (W/kg)	Ratio	Comments
KKL-AB-150113-23	FAF52560	PMNN4403B	NTN8266B	None	450.0000	7.85	1.08	No additional repeated scans is required due to the Ratio (SAR _{high} /SAR _{low}) < 1.20
CcC-AB-150206-01						7.84		
TLC-AB-150506-04						7.30		

18.0 System Uncertainty

Per the guidelines of ISO 17025 a reported system uncertainty is required and therefore measurement uncertainty budget is included in Appendix A.

Appendix A Measurement Uncertainty Budget

The Measurement Uncertainty tables indicated in this APPENDIX are applicable to the DUT test frequencies ranging from 100 MHz to 550 MHz and 750 MHz to 2.6 GHz.

The probe’s measurement uncertainty changes with frequency and the uncertainty budgets in this appendix cover multiple frequency ranges. Therefore the probe’s highest uncertainty for the given frequency range of the uncertainty budget is used.

TABLE A.1: Uncertainty Budget for Device Under Test, for 100 MHz to 550 MHz

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e = f(d,k)</i>	<i>f</i>	<i>g</i>	<i>h = c x f / e</i>	<i>i = c x g / e</i>	<i>k</i>
Uncertainty Component	IEEE 1528 section	Tol. (± %)	Prob Dist	Div.	<i>c_i</i> (1 g)	<i>c_i</i> (10 g)	1 g <i>u_i</i> (±%)	10 g <i>u_i</i> (±%)	<i>v_i</i>
Measurement System									
Probe Calibration	E.2.1	6.7	N	1.00	1	1	6.7	6.7	∞
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	0.3	N	1.00	1	1	0.3	0.3	∞
Response Time	E.2.7	1.1	R	1.73	1	1	0.6	0.6	∞
Integration Time	E.2.8	1.1	R	1.73	1	1	0.6	0.6	∞
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mech. Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning w.r.t Phantom	E.6.3	1.4	R	1.73	1	1	0.8	0.8	∞
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	∞
Test sample Related									
Test Sample Positioning	E.4.2	3.2	N	1.00	1	1	3.2	3.2	29
Device Holder Uncertainty	E.4.1	4.0	N	1.00	1	1	4.0	4.0	8
SAR drift	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measurement)	E.3.3	3.3	N	1.00	0.64	0.43	2.1	1.4	∞
Liquid Permittivity (target)	E.3.2	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (measurement)	E.3.3	1.9	N	1.00	0.6	0.49	1.1	0.9	∞
Combined Standard Uncertainty			RSS				11.5	11.3	482
Expanded Uncertainty (95% CONFIDENCE LEVEL)			<i>k</i> =2				23	23	

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TABLE A.2: Uncertainty Budget for Device Under Test, for 750 MHz to 2600 MHz

<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e = f(d,k)</i>	<i>f</i>	<i>g</i>	<i>h = c x f / e</i>	<i>i = c x g / e</i>	<i>k</i>
Uncertainty Component	IEEE 1528 section	Tol. (± %)	Prob Dist	Div.	<i>c_i</i> (1 g)	<i>c_i</i> (10 g)	1 g <i>u_i</i> (±%)	10 g <i>u_i</i> (±%)	<i>v_i</i>
Measurement System									
Probe Calibration	E.2.1	6.0	N	1.00	1	1	6.0	6.0	∞
Axial Isotropy	E.2.2	4.7	R	1.73	0.707	0.707	1.9	1.9	∞
Hemispherical Isotropy	E.2.2	9.6	R	1.73	0.707	0.707	3.9	3.9	∞
Boundary Effect	E.2.3	1.0	R	1.73	1	1	0.6	0.6	∞
Linearity	E.2.4	4.7	R	1.73	1	1	2.7	2.7	∞
System Detection Limits	E.2.5	1.0	R	1.73	1	1	0.6	0.6	∞
Readout Electronics	E.2.6	0.3	N	1.00	1	1	0.3	0.3	∞
Response Time	E.2.7	1.1	R	1.73	1	1	0.6	0.6	∞
Integration Time	E.2.8	1.1	R	1.73	1	1	0.6	0.6	∞
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	∞
Probe Positioner Mech. Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	∞
Probe Positioning w.r.t Phantom	E.6.3	1.4	R	1.73	1	1	0.8	0.8	∞
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	∞
Test sample Related									
Test Sample Positioning	E.4.2	3.2	N	1.00	1	1	3.2	3.2	29
Device Holder Uncertainty	E.4.1	4.0	N	1.00	1	1	4.0	4.0	8
SAR drift	6.6.2	5.0	R	1.73	1	1	2.9	2.9	∞
Phantom and Tissue Parameters									
Phantom Uncertainty	E.3.1	4.0	R	1.73	1	1	2.3	2.3	∞
Liquid Conductivity (target)	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Conductivity (measurement)	E.3.3	3.3	N	1.00	0.64	0.43	2.1	1.4	∞
Liquid Permittivity (target)	E.3.2	5.0	R	1.73	0.6	0.49	1.7	1.4	∞
Liquid Permittivity (measurement)	E.3.3	1.9	N	1.00	0.6	0.49	1.1	0.9	∞
Combined Standard Uncertainty				RSS			11.1	10.9	419
Expanded Uncertainty (95% CONFIDENCE LEVEL)				<i>k</i> =2			22	22	

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Notes for uncertainty budget Tables:

- a) Column headings a-k are given for reference.
- b) Tol. - tolerance in influence quantity.
- c) Prob. Dist. – Probability distribution
- d) N, R - normal, rectangular probability distributions
- e) Div. - divisor used to translate tolerance into normally distributed standard uncertainty
- f) *c_i* - sensitivity coefficient that should be applied to convert the variability of the uncertainty component into a variability of SAR.
- g) *u_i* – SAR uncertainty
- h) *v_i* - degrees of freedom for standard uncertainty and effective degrees of freedom for the expanded uncertainty