MOTOROLA SOL		SAMM 826	ACCREDITED CERTIFICATE 2518.05		
DECLA	RATION OF COMPLIA	ANCE SAR ASSESSMI	ENT PCII Report		
Motorola Soluti					
EME Test Lab	oratory	Date of Report:	03/04/2024		
Motorola Solutions Mal	•		4		
Plot 2A, Medan Bay	-	T			
Mukim 12 SWD 11900 Bayan Le	epas Penang, Malaysia.				
Responsible Engineer:	Puteri Alifah Ilyana Bint	i Nor Rahim (EMF Engi	neer)		
Report Author:	Puteri Alifah Ilyana Bint				
Date/s Tested:	2/8/2024, 2/27/2024 - 2/2				
Manufacturer:	Motorola Solutions Inc.	20, 202 1			
Manufacturer Location:	Sanmina, Penang				
DUT Description:	Handheld Portable – MC	OTOTRBO R2 136-174N	1 5W NKP		
Test TX mode(s):	CW (PTT)				
Max. Power output:	Refer table 3				
Nominal Power:	Refer table 3				
Tx Frequency Bands:	Refer table 3				
Signaling type:	Refer table 3				
Model(s) Tested:	AAH11JDC9JA2AN				
Model(s) Certified:	Refer section 1.0 Intro	duction			
Serial Number(s):	902EAB8524				
Classification:		Environment			
Firmware Version:	Occupational/Controlled Environment 102.24.01.3006				
	Motorola Solutions Inc.				
Applicant Name:	Motorola Solutions Inc. Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang,				
Applicant Address:	Malaysia	cpas, mukilli 12 SWD, I	1700 Dayan Lepas, renang,		
FCC ID:	AZ489FT3852;				
		lts that are immaterial for	FCC equipment approval, which		
	are clearly identified.		r ee equipment approval, which		
FCC Test Firm Registration					
Number:	023230				
IC:	109U-89FT3852				
		lts that are immaterial for	ISED equipment approval,		
	which are clearly identifi		isse equipment upprovui,		
	·				
ISED Test Site registration:	24843				
The test results clearly demonstra	te compliance with Occup	ational/Controlled RF Ex	posure limits of 8 W/kg averaged over 1		
gram per the requirements of FCC					
Based on the information and the testing r product complies with the national and int This report shall not be reproduced without	esults provided herein, the under ernational reference standards a it written approval from an offic ume full responsibility for the cou	signed certifies that when used nd guidelines listed in section 4 ially designated representative npleteness of these measureme	as stated in the operating instructions supplied, said .0 of this report (no deviation from standard methods). of the Motorola Solutions Inc EME Laboratory. nts. This reporting format is consistent with the ort pertain only to the device(s) evaluated.		
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	Saw Sun Hock	(Approval Signatory)			
		ed Date: 3/5/2024			
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- H DUT, Body worn and audio accessories Photos

Report Revision History

Date	Revision	Comments
03/04/2024	А	Initial release

1.0 Introduction

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 portable model number AAH11JDC9JA2AN. The information herein is to show evidence of Class II Permissive Change compliance based on the SAR evaluation of VCO and low pass filter changes. This device is classify as Occupational/Controlled Environment and model certified is lists as below:

Model Description	
AAH11JDC9JA2AN	MOTOTRBO R2 136-174M 5W NKP
AAH11JDC9JC2AN	MOTOTRBO R2 136-174M 5W NKP ANALOG

2.0 FCC SAR Summary

Equipment Class	Frequency band (MHz)	Max Calc at Body (W/kg)	Max Calc at Face (W/kg)
Class		1g-SAR	1g-SAR
TNF	150.8 – 173.4 MHz (LMR)	1.70 1	0.99 ²

Table 1

Note:

^{1 & 2} Previous filed reported SAR value at 150.8-173.4 MHz for body-worn accessory & face are 1.90 & 1.02 W/kg. These values will remain in grant as no degradation observed.

3.0 Abbreviations / Definitions

BT: Bluetooth CW: Continuous Wave DUT: Device Under Test EME: Electromagnetic Energy FM: Frequency Modulation NA: Not Applicable LMR: Land Mobile Radio PTT: Push to Talk RSM: Remote Speaker Microphone SAR: Specific Absorption Rate TNF: Licensed Non-Broadcast Transmitter Held to Face 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.

- Federal Communications Commission, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, FCC, Washington, D.C.: 1997.
- Institute of Electrical and Electronics Engineers (IEEE) C95.1-2019
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 2020
- Ministry of Health (Canada) Safety Code 6 (2015), Limits of Human Exposure to Radio frequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz
- RSS-102 (Issue 5) Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands)
- Australian Communications Authority Radio communications (Electromagnetic Radiation -Human Exposure) Standard (2014)
- ANATEL, Brazil Regulatory Authority, Resolution No 700 of September 28, 2018 "Approves the Regulation on the Assessment of Human Exposure to Electric, Magnetic and Electromagnetic Fields Associated with the Operation of Radio communication Transmitting Stations.
- IEC/IEEE 62209-1528-2020- Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
- FCC KDB 643646 D01 SAR Test for PTT Radios v01r03
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 RF Exposure Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06

5.0 SAR Limits

Table	2
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	SAR (W/kg)
EXPOSURE LIMITS	(General Population /	(Occupational /
EAI OSUKE EIMITS	Uncontrolled Exposure	Controlled Exposure
	Environment)	Environment)
Spatial Average - ANSI -	0.08	0.4
(averaged over the whole body)		
Spatial Peak - ANSI -	1.6	8.0
(averaged over any 1-g of tissue)		
Spatial Peak – ICNIRP/ANSI -	4.0	20.0
(hands/wrists/feet/ankles averaged over 10-g)		
Spatial Peak - ICNIRP -	2.0	10.0
(Head and Trunk 10-g)		

6.0 Description of Device Under Test (DUT)

This portable device operates in the LMR bands using frequency modulation (FM) signaling incorporating traditional simplex two-way radio transmission protocol.

The LMR bands in this device operate in a half duplex system. A half duplex system only allows the user to transmit or receive. This device 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, along with the RF safety booklet, which instructs the user to transmit no more than 50% of the time, justifies the use of 50% duty factor for this device.

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.

			Duty Cycle	Conducted (Ave	rage Detector) Power
Radio Type	Band (MHz)	Transmission	(%)	Nominal	Declared Max
			(70)	Power (W)	Power (W)
LMR	136-174	FM	*50	5.00	6.00

Table 3

Note - * includes 50% PTT operation

The intended operating positions are "at the face" with the DUT at least 1 inch 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.

7.0 Optional Accessories and Test Criteria

This device 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 section 4.0 assess compliance of these devices. The following sections identify the test criteria and details for each accessory category applicable for this PCII filing only. Detail listing of all approved offered accessories available in the original filing report.

7.1 Antennas

There is only one antenna applicable for this PCII filing. The Table below lists its descriptions.

|--|

Antenna No.	Antenna Models	Description	Selected for test	Tested
1	PMAD4116A	144-165MHz, ¹ ⁄2 wave, -9.5dBi	Yes	Yes

7.2 Battery

There are two batteries applicable for this PCII filing. The Table below lists its descriptions.

Table 5

Battery No.	Battery Models	Description	Selected for test	Tested
1	PMNN4600A	BATT LIION IP55 2100T	Yes	Yes
2	PMNN4598A	BATT LIION IP55 2400T	Yes	Yes

7.3 Body worn Accessories

There are two body worn applicable for this PCII filing. The Table below lists its descriptions.

Table 6

Body worn No.	Body worn Models	Description	Selected for test	Tested	Comments	
1	PMLN8433	Hard Leather 3" Fixed Belt Loop	Yes	Yes	Tested with NTN5243A	
2	NTN5243A	Strap	Yes	Yes	Tested with PMLN8433	

7.4 Audio Accessories

There is only one audio applicable for this PCII filing. The Table below lists the description.

	Table /							
Audio No.	Audio Acc. Model	Description	Selected for test	Tested				
1	PMMN4013A	Microphone,Remote Speaker Mic,Rx-Jack(2 Pin)	Yes	Yes				

Table 7

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	52.10.4.1527	DAE4	EX3DV4 (E-Field)

The **DASY5TM system** is operated per the instructions in the DASY5TM Users Manual. The complete manual is available directly from SPEAGTM. 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

8.2 Description of Phantom(s)

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

Table 9

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.

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 (percent by mass)

Table 10

	150MHz
Ingredients	Head
Sugar	55.4
Diacetin	NA
De ionized -Water	38.35
Salt	5.15
HEC	1
Bact.	0.1

9.0 Additional Test Equipment

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

Equipment Type	Model Number	Serial Number	Calibration Date	Calibration Due Date
SPEAG PROBE	EX3DV4	7594	12/07/2023	12/07/2026
SPEAG DAE	DAE4	850	04/14/2022	04/14/2025
POWER AMPLIFIER	50W 1000A	14715	CNR	CNR
AMPLIFIER	5S1G4	313326	CNR	CNR
AMPLIFIER	5S4G11	312664	CNR	CNR
VECTOR SIGNAL GENERATOR	E4438C	MY42081753	08/30/23	08/30/24
BI-DIRECTIONAL COUPLER	3020A	40295	06/09/23	06/09/24
BI-DIRECTIONAL COUPLER	3022	81640	06/09/23	06/09/24
BI-DIRECTIONAL COUPLER	3024	61136	07/18/23	07/18/24
POWER METER	E4418B	MY45100911	08/11/23	08/11/24
POWER METER	E4416A	MY50001037	08/09/23	08/09/24
POWER METER	E4419B	MY45103725	6/18/23	6/18/24
POWER SENSOR	E4412A	MY61050006	04/12/23	04/12/24
POWER SENSOR	E9301B	MY50290001	06/16/23	06/16/24
POWER SENSOR	E9301B	MY50280001	05/19/23	05/19/24
DIGITAL THERMOMETER WITH PROBE	HI98509	3CC770	05/30/23	05/29/24
DATA LOGGER	DSB	16326820	11/26/23	11/26/24
DATA LOGGER	DSB	16326831	11/26/23	11/26/24
NETWORK ANALYZER*	E5071B	MY42403147	02/21/23	02/21/24
NETWORK ANALYZER	E5071B	MY42403218	09/15/23	09/15/24
DIGITAL THERMOMETER WITH PROBE	HI98509	3CC770	05/30/23	05/29/24
DIELECTRIC ASSESSMENT KIT	DAK-12	1069	04/11/23	04/11/24
SPEAG DIPOLE	CLA150	4016	01/06/23	01/06/26

Table 11

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

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

	Pro	be	Probe	Measured Tissue Parameters		Validation			
Dates	Calibrati	on Point	SN	σ	€r	Sensitivity	Linearity	Isotropy	
CW									
12/27/2023	Head	150	7594	0.74	50.08	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 with the largest deviation from the qualified source SAR target for each dipole (Bold). The Table below summarizes the daily system check results used for the SAR assessment.

Table 13

Probe Serial #	Tissue Type	Dinolo K it / Sorial #	Ref SAR @ 1W (W/kg)		System Check Test Results when normalized to 1W (W/kg)	Tested Date	Deviation (%)
				4.11	4.11	02/08/2024@	9.0
7594	IEEE/IEC Head	SPEAG CLA150 / 4016	3.77 ± 10%	4.10	3.92	2/27/2024	4.0
				4.13	3.93	2/28/2024@	4.2

Note: '@' indicates that system verification check covers next test day

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.

					Dielectric	
Frequency	Tissue	Conductivity	Dielectric	Conductivity	Constant	
(MHz)	Туре	Target (S/m)	Constant Target	Meas. (S/m)	Meas.	Tested Date
144.0000	IEEE/	0.76	52.6	0.733	52.854	02/08/2024@
144.0000	IEC Head	(0.72-0.79)	(49.9-55.2)	0.729	51.675	2/28/2024@
	IEEE/	0.76	52.3	0.738	52.488	02/8/2024@
150.0000	IEEE/ IEC Head		(49.7-54.9)	0.758	51.273	2/27/2024
	IEC Heau	(0.72-0.80)		0.734	51.345	2/28/2024@
	IEEE/	0.76	52.3	0.739	52.440	02/08/2024@
150.8000	IEEE/ IEC Head	(0.72-0.80)	(49.6-54.9)	0.758	51.240	2/27/2024
	IEC Heau	(0.72-0.80)	(49.0-34.9)	0.734	51.301	2/28/2024@
165.0000	IEEE/	0.77	51.6	0.750	51.577	02/8/2024@
105.0000	IEC Head	(0.73-0.81)	(49.0-54.2)	0.737	51.081	2/28/2024@

Table 14

Note: '@' indicates that tissue test result covers next test day (within 24 hours)

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 $+/-2^{\circ}$ C of the temperature at which the dielectric properties were determined. The liquid depth within the phantom used for measurements was at least 15cm. 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 1	15
---------	----

	Target	Measured
	18 – 25 °C	Range: 19.4 – 23.2°C
Ambient Temperature	10 25 C	Avg. 21.30 °C
	18 – 25 °C	Range: 20.3 – 21.5°C
Tissue Temperature	10 - 25 C	Avg. 20.9°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 Setup and Methodology

12.1 Measurements

SAR measurements were performed using the DASY system described in section 8.0 using zoom scans. 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.

Descr	iption	≤3 GHz	> 3 GHz		
Maximum distance from close (geometric center of probe ser	-	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle from p normal at the measurement loo	-	$30^{\circ} \pm 1^{\circ}$	$20^{\circ} \pm 1^{\circ}$		
		\leq 2 GHz: \leq 15 mm	$3-4$ GHz: ≤ 12 mm		
		$2-3$ GHz: ≤ 12 mm	$4-6$ GHz: ≤ 10 mm		
		When the x or y dimensi	on of the test device, in		
Maximum area scan spatial re	solution: AxAraa AuAraa	the measurement plane of	rientation, is smaller		
Maximum area scan spatial re	solution. AxAlea, AyAlea	than the above, the measurement resolution			
		must be \leq the corresponding x or y dimension of			
		the test device with at least one measurement			
		point on the test device.			
Maximum zoom scan spatial n	resolution: Δx Zoom, Δy Zoom	\leq 2 GHz: \leq 8 mm	$3-4$ GHz: ≤ 5 mm*		
		$2-3 \text{ GHz:} \leq 5 \text{ mm*}$	$4-6 \text{ GHz}: \le 4 \text{ mm}^*$		
Maximum zoom scan	uniform grid: $\Delta z Zoom(n)$		$3-4$ GHz: ≤ 4 mm		
spatial resolution, normal to		$\leq 5 \text{ mm}$	$4-5 \text{ GHz}: \leq 3 \text{ mm}$		
phantom surface			$5-6~GHz$: $\leq 2~mm$		
Note: δ is the penetration dept	h of a plane-wave at normal ind	cidence to the tissue mediu	m; see draft standard		
IEEE P1528-2011 for details.					
* When zoom scan is required	l and the reported SAR from the	e area scan based 1-g SAR	estimation procedures		
of KDB 447498 is \leq 1.4 W/kg	$g, \le 8 \text{ mm}, \le 7 \text{ mm} \text{ and} \le 5 \text{ mm}$	zoom scan resolution may	be applied,		
respectively, for 2 GHz to 3 G	Hz, 3 GHz to 4 GHz and 4 GH	z to 6 GHz.			

Table 16

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 G.

12.3.1 Body

The DUT was positioned in normal use configuration against the phantom with the offered body worn accessory as well as with and without 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 number of test channels was determined by using the following IEEE 1528 equation. The use of this equation produces the same or more test channels compared to the FCC KDB 447498 number of test channels formula.

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

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 averaged SAR results indicated as "Max Calc. 1g-SAR" in the data Tables is determined by scaling the measured SAR to account for power leveling variations and drift. Appendix F includes a shortened scan to justify SAR scaling for drift. For this device the "Max Calc. 1g-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) $SAR_meas = Measured 1-g Avg. SAR (W/kg)$ 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. All tests were performed in CW and 50% duty cycle was applied to PTT configurations in the final results.

13.0 DUT Test Data

13.1 Assessments for FCC LMR at the Body and Face

The DUT was assessed at the highest applicable configuration at the body found during the initial compliance assessment on filed with the FCC. SAR plots of the highest SAR results are present in Appendix E.

Antenna	Battery	Carry Accessory	Cable Accessory Highest Body	Test Freq (MHz) Configuratior	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Run#
PMAD4116A	PMNN4600A	PMLN8433 w/ NTN5243A	PMMN4013A	150.8000	5.50	-0.34	2.89	1.70	BL-AB- 240227-07
Highest Face Configuration									
PMAD4116A	PMNN4598A	None	None	150.8000	5.90	-0.38	1.61	0.89	AR-FACE- 240208-08@

Table 17

13.2 Assessments for ISED, Canada LMR at the Body

Based on the assessment results for body and face per KDB643646, additional tests were not required for ISED, Canada frequency range as the testing performed is compliance with the Industry Canada frequency range.

As per ISED Notice 2016-DRS001, additional tests were required the low, mid and high frequency channels for the highest configuration from Body and Face (138-174MHz). The SAR results are in table below. SAR plots of the highest result for Body and Face (bolded) are present in Appendix E.

Antenna	Battery	Carry Accessory	Cable Accessory Boo	Test Freq (MHz) dy	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g-SAR (W/kg)	Run#
PMAD4116A F	PMNN4600A		PMMN4013A	144.0000	5.62	-0.66	1.83	1.14	EMR-AB- 240228-04@
		PMLN8433 w/ NTN5243A		150.8000	5.50	-0.34	2.89	1.70	BL-AB- 240227-07
				165.0000	5.56	-0.25	0.84	0.48	BL-AB- 240228-08@
			Fac	ce		-			
				144.0000	5.89	0.79	1.59	0.81	AR-FACE- 240208-11@
PMAD4116A	PMNN4598A	None	None	150.8000	5.90	-0.38	1.61	0.89	AR-FACE- 240208-08@
				165.0000	5.82	-0.38	1.76	0.99	AR-FACE- 240208-13@

Table 18

14.0 Shortened Scan Assessment

A "shortened" scan using the highest SAR configuration overall from above was performed to validate the SAR drift of the full DASY5TM 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 F 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 19	
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Antenna	Battery	Carry Accessory	Cable Accessory	Test Freq (MHz)	Init Pwr (W)	SAR Drift (dB)	Meas. 1g-SAR (W/kg)	Max Calc. 1g- SAR (W/kg)	Run#
PMAD4116A	PMNN4600A	PMLN8433 w/ NTN5243A	PMMN4013A	150.8000	5.56	-0.27	2.62	1.50	BL-AB- 240228-14

15.0 Results Summary

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

Designator	Frequency band (MHz)	Max Calc at Body (W/kg) 1g-SAR	Max Calc at Face (W/kg) 1g-SAR
FCC, US	150.8-173.4	1.70	0.99
ISED, Canada	138-174	1.70	0.99
Overall Range	136-174	1.70	0.99

Table	20
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The test results clearly demonstrate compliance with FCC/ISED Occupational/Controlled RF Exposure limits of 8 W/kg averaged over 1 gram per the requirements of FCC 47 CFR § 2.1093 and ISED RSS-102 (Issue 5).

16.0 Variability Assessment

Per the guidelines in KDB 865664 SAR variability assessment is not required because SAR results are below 4.0W/kg (Occupational).

17.0 System Uncertainty

A system uncertainty analysis is not required for this report per KDB 865664 because the highest report SAR value for Occupational exposure is less than 7.5W/kg.

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

Appendix A

Measurement Uncertainty Budget

							<i>h</i> =	<i>i</i> = (
a	b	с	d	e = f(d,k)	f	g	cxf/ e	cxg/ e	k
	IEEE	Tol. (±	Prob		Ci	Ci	1 g	10 g	
	1528	%)	Dist		(1 g)	(10 g)	\boldsymbol{u}_i	\boldsymbol{u}_i	
Uncertainty Component	section			Div.			(±%)	(±%)	Vi
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	8
Readout Electronics	E.2.6	0.3	Ν	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	8
RF Ambient Conditions - Noise	E.6.1	3.0	R	1.73	1	1	1.7	1.7	8
RF Ambient Conditions - Reflections	E.6.1	0.0	R	1.73	1	1	0.0	0.0	8
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	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	Ν	1.00	1	1	3.2	3.2	29
Device Holder Uncertainty	E.4.1	4.0	Ν	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	s
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	8
Liquid Permittivity (measurement)	E.3.3	1.9	N	1.00	0.6	0.49	1.1	0.9	8
Combined Standard Uncertainty			RSS				12	11	482
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				23	23	

Uncertainty Budget for Device Under Test, for 150MHz

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) *ci* - sensitivity coefficient that should be applied to convert the variability of the uncertainty component into a variability of SAR.

g) *ui* – SAR uncertainty

h) vi - degrees of freedom for standard uncertainty and effective degrees of freedom for the expanded uncertainty

Uncertainty Budget for System Validation (dipole & flat phantom) for 150 MHz

Oncertainty Dudget for Syste		Iaau	in (unp		nut pi	lanco		10010	
							<i>h</i> =	<i>i</i> =	
			-	<i>e</i> =			c x f /	c x g	-
<i>a</i>	b	С	d	<i>f</i> (<i>d</i> , <i>k</i>)	f	g	е	/ e	k
		Tol.	Prob.		Ci	Ci	1 g	10 g	
	IEEE	(±				(10			
	1528 section	%)	Dist.		(1 g)	g)	\boldsymbol{u}_i	\boldsymbol{u}_i	
Uncertainty Component	section			Div.			(±%)	(±%)	Vi
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	1	1	2.7	2.7	∞
Spherical Isotropy	E.2.2	9.6	R	1.73	0	0	0.0	0.0	~
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	Ν	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	0.0	R	1.73	1	1	0.0	0.0	×
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 Mechanical Tolerance	E.6.2	0.4	R	1.73	1	1	0.2	0.2	8
Probe Positioning w.r.t. Phantom	E.6.3	1.4	R	1.73	1	1	0.8	0.8	8
Max. SAR Evaluation (ext., int., avg.)	E.5	3.4	R	1.73	1	1	2.0	2.0	8
Dipole									
Dipole Axis to Liquid Distance	8, E.4.2	2.0	R	1.73	1	1	1.2	1.2	8
Input Power and SAR Drift Measurement	8, 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	R	1.73	0.64	0.43	1.2	0.8	×
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	R	1.73	0.6	0.49	0.6	0.5	×
Combined Standard Uncertainty			RSS				10	9	99999
Expanded Uncertainty									
(95% CONFIDENCE LEVEL)			<i>k</i> =2				19	18	
· /									

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) *ci* - sensitivity coefficient that should be applied to convert the variability of the uncertainty component into a variability of SAR.

g) ui – SAR uncertainty

h) vi - degrees of freedom for standard uncertainty and effective degrees of freedom for the expanded uncertainty

Appendix B

Probe Calibration Certificates

	ation Laborator d & Partner vering AG sstrasse 43, 8004 Zur			S Schweizerischer Kalibrierdiens C Service suisse d'étalonnage Servizio svizzero di taratura S Swiss Calibration Service
he Swis	ss Accreditation Ser	ditation Service (SAS) vice is one of the signate recognition of calibrati		Accreditation No.: SCS 0108
lient	Motorola So Bayan Lepas, Ma		Certificate No.	EX-7594_Dec23
CAL	IBRATION C	ERTIFICATE		
Object		EX3DV4 - SN:7	594	
Calibra	tion procedure(s)	QA CAL-25.v8	, QA CAL-12.v10, QA CAL-14. edure for dosimetric E-field pro	
Calibra	tion date	December 07, 2	023	
The me All calit	easurements and the brations have been co	uncertainties with confidenc	se probability are given on the following p alory facility: environment temperature (2	
The ma All calit Calibra	easurements and the brations have been co dion Equipment used	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration	se probability are given on the following p atory facility: environment temperature (2 n)	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%.
The ma All calit Calibra Primary	easurements and the brations have been co dion Equipment used / Standards	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration	se probability are given on the following p atory facility: environment temperature (2 n) Call Date (Certificate No.)	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%.
The ma All calit Calibra Primary Power n	easurements and the brations have been co dion Equipment used / Standards meter NRP2	ID SN: 104778	e probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805)	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24
The ma All calit Calibra Primary Power n Power s	easurements and the brations have been co dion Equipment used / Standards	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration	se probability are given on the following p atory facility: environment temperature (2 n) Call Date (Certificate No.)	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24
All calibra Calibra Primary Power r Power s OCP D/ OCP D/	assurements and the brations have been co tion Equipment used / Standards meter NRP2 sensor NRP-291 AK-3.5 (weighted) AK-3.5 (weighted)	ID SN: 104778 SN: 103244 SN: 103244 SN: 10326 SN: 10356 SN: 1035655555555555555555555555555555555555	e probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804)	Ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24
All calit Calibra Primary Power n Power s OCP D/ OCP D/ Referen	easurements and the brations have been co tion Equipment used / Standards meter NRP2 sensor NRP-291 AK-3.5 (weighted)	ID ID SN: 104778 SN: 104778 SN: 10244 SN: 1249 SN: CC2552 (20x)	 probability are given on the following p alory facility: environment temperature (2 n) Gal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK12-1018_Oct 30-Mar-23 (No. 217-03809) 	Ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24 123) Oct-24
All calit Calibra Primary Power n Power s OCP D/ OCP D/ Referen DAE4	assurements and the brations have been co dion Equipment used / Standards meter NRIP2 sensor NRIP-291 AK-32 (weighted) AK-12 cce 20 dB Attenuator	ID ID ID ID ID ID ID ID ID ID ID ID ID I	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. 247-03809) 16-Mar-23 (No. 247-03809)	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24 Mar-24 Mar-24) Mar-24
All calit Calibra Primary Power n Power s OCP D/ OCP D/ Referen DAE4	assurements and the brations have been co tion Equipment used / Standards meter NRP2 sensor NRP-291 AK-3.5 (weighted) AK-3.5 (weighted)	ID ID SN: 104778 SN: 104778 SN: 10244 SN: 1249 SN: CC2552 (20x)	 probability are given on the following p alory facility: environment temperature (2 n) Gal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK12-1018_Oct 30-Mar-23 (No. 217-03809) 	Ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24 123) Oct-24
All calit Calibra Primary Power r Power s OCP D/ OCP D/ Referen DAE4 Referen	assurements and the brations have been co dion Equipment used / Standards meter NRIP2 sensor NRIP-291 AK-32 (weighted) AK-12 cce 20 dB Attenuator	ID ID ID ID ID ID ID ID ID ID ID ID ID I	2e probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (No. 217-03809) 16-Mar-23 (No. 217-03809) 06-Jan-23 (No. ES3-3013_Jan23)	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24 Mar-24 Mar-24) Mar-24
All calit Calibra Primary Power r Power r Power s OCP D/ Referen DAE4 Referen	easurements and the brations have been co dion Equipment used (Standards meter NRP2 sensor NRP-291 AK-35 (weighted) AK-12 nce 20 dB Attenuator nce Probe ES3DV2	ID ID ID ID ID ID ID ISN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013	Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. 247-03809) 16-Mar-23 (No. 247-03809)	ages and are part of the certificate. 22 ± 3) *C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24 Mar-24) Mar-24 Jan-24 Scheduled Check
All calibra All calibra Primary Power n Power s OCP D/ OCP D/ Referen DAE4 Referen Second Power s	assurements and the identitions have been co- tion Equipment used in Standards meter NRP2 isensor NRP-291 AK-3.5 (weighted) AK-3.5 (weighted) AK-12 ince 20 dB Attenuator ince Probe ES3DV2 iary Standards meter E4419B isensor E4412A	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087	 probability are given on the following p alory facility: environment temperature (2 n) Gal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK35-1249_Oc 05-Oct-23 (OCP-DAK35-1249_Oc 05-Oct-23 (OCP-DAK35-1249_Oc 05-Oct-23 (No. 217-03809) 16-Mar-23 (No. 217-03809) 16-Mar-23 (No. DAE4-660_Mar23) 06-Jan-23 (No. ES3-3013_Jan23) Check Date (in house) 06-Apr-16 (in house check Jun-22) 08-Apr-16 (in house check Jun-22) 	Ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 123) Oct-24 123) Oct-24 123) Oct-24 Mar-24 Mar-24) Mar-24 Jan-24 Scheduled Check) In house check: Jun-24) In house check: Jun-24
All calibra All calibra Calibra Primary Power n Power s OCP D/ OCP D/ Referen DAE4 Referen Second Power n Power s Power s	easurements and the in brations have been co- tion Equipment used in Equipment used is Standards meter NRP2 sensor NRP-291 AK-3.5 (weighted) AK-3.5 (weighte	ID SN: 104778 SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41496087 SN: 000110210	 probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1016_Oct 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. 217-03809) 16-Mar-23 (No. ES3-3013_Jan23) O6-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 (23) Oct-24 (23) Oct-24 Mar-24) Mar-24) Mar-24) Mar-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24
All calibra All calibra Primary Power n Power s OCP D/ OCP D/ DAE4 Referen DAE4 Referen Power s Power s Referen Power s Power s Referen	assurements and the in brations have been co- tion Equipment used (Standards meter NRP2 eenson NRP-291 AK-3.5 (weighted) AK-12 noe 20 dB Attenuator noe Probe ES3DV2 lary Standards meter E4419B sensor E4412A eensor E4412A eensor E4412A eator HP 8648C	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: MY41498087 SN: 000110210 SN: US3642U01700	 probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (No. 247-03809) 16-Mar-23 (No. 247-03809) 16-Mar-23 (No. 253-3013_Jan23) Oct-act (in house) Oct-Apr-16 (in house check Jun-22) 	Ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 (23) Oct-24 (23) Oct-24 Mar-24) Mar-24) Mar-24) Mar-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24
All calibra All calibra Primary Power n Power s OCP D/ OCP D/ DAE4 Referen DAE4 Referen Power s Power s Referen Power s Power s Referen	easurements and the in brations have been co- tion Equipment used in Equipment used is Standards meter NRP2 sensor NRP-291 AK-3.5 (weighted) AK-3.5 (weighte	ID SN: 104778 SN: 104778 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41496087 SN: 000110210	 probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1016_Oct 30-Mar-23 (No. 217-03809) 16-Mar-23 (No. 217-03809) 16-Mar-23 (No. ES3-3013_Jan23) O6-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 06-Apr-16 (in house check Jun-22) 	ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 (23) Oct-24 (23) Oct-24 Mar-24) Mar-24) Mar-24) Mar-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24
All calibra All calibra Primary Power n Power s OCP D/ OCP D/ DAE4 Referen DAE4 Referen Power s Power s Referen Power s Power s Referen	assurements and the in brations have been co- tion Equipment used (Standards meter NRP2 eenson NRP-291 AK-3.5 (weighted) AK-12 noe 20 dB Attenuator noe Probe ES3DV2 lary Standards meter E4419B sensor E4412A eensor E4412A eensor E4412A eator HP 8648C	uncertainties with confidence inducted in the closed labor (M&TE critical for calibration SN: 104778 SN: 103244 SN: 103244 SN: 1249 SN: 1016 SN: CC2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087 SN: MY41498087 SN: 000110210 SN: US3642U01700	 probability are given on the following p alory facility: environment temperature (2 n) Cal Date (Certificate No.) 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (OCP-DAK3.5-1249_Oc 05-Oct-23 (No. 247-03809) 16-Mar-23 (No. 247-03809) 16-Mar-23 (No. 253-3013_Jan23) Oct-act (in house) Oct-Apr-16 (in house check Jun-22) 	Ages and are part of the certificate. 22 ± 3) °C and humidity < 70%. Scheduled Calibration Mar-24 Mar-24 (23) Oct-24 (23) Oct-24 Mar-24) Mar-24) Mar-24) Mar-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24) In house check: Jun-24
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices – Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz; R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- · PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Cx,y,z; VRx,y,z; A, B, C, D are numerical linearization parameters assessed based on the data of
 power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum
 calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx, y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORIMX (no uncertainty required).

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Parameters of Probe: EX3DV4 - SN:7594

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm (µV/(V/m) ²) ^A	0.65	0.62	0.60	±10.1%
DCP (mV) B	106.1	104.2	106.6	±4.7%

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Max dev.	Max Unc ^E k = 2
0	CW	X	0.00	0.00	1.00	0.00	150.3	±3.0%	±4.7%
	10000	Y	0.00	0.00	1.00	Constraints?	158.8	-3540255411	/COBRENCES
		Z	0.00	0.00	1.00	Same	142.8		
10352	Pulse Waveform (200Hz, 10%)	X	1.45	60.32	5.97	10.00	60.0	±3.2%	±9.6%
		Y	1.47	60.30	5.94	3 3	60.0		
		Z	12.00	74.00	11.00	S	60.0		
10353	Pulse Waveform (200Hz, 20%)	X	0.83	60.00	4.76	6.99	80.0	±2.5%	±9.6%
	25.0 - 25	Y	0.81	60.00	4.41	1.000	80.0	(Devis) (B.	111111111
		Z	0.83	60.00	4.77	ľ	80.0	b	
10354	Pulse Waveform (200Hz, 40%)	X	0.48	60.00	3.55	3.98	95.0	±2.7%	±9.6%
		Y	0.00	129.20	0.23		95.0		
		Z	0.27	151.60	1.62		95.0	·	
10355	Pulse Waveform (200Hz, 60%)	X	0.45	60.00	2.53	2.22	120.0	±1.8%	±9.6%
		Y	0.82	159.97	2.09		120.0		
		Z	7.16	159.99	23.35		120.0		
10387	QPSK Waveform, 1 MHz	X	2.81	91.62	24.86	1.00	150.0	±4.0%	±9.6%
		Y	0.62	65.75	13.13		150.0		
		Z	0.46	62.85	12.03	i	150.0		
10388	QPSK Waveform, 10 MHz	X	2.12	74.20	18.43	0.00	150.0	±1.6%	±9.6%
		Y	1.42	66.83	14.43	5	150.0	-	
		Z	1.25	65.82	13.65	6 6	150.0		
10396	64-QAM Waveform, 100 kHz	X	1.95	67.97	18.40	3.01	150.0	±1.3%	±9.6%
		Y	1.71	65.26	16.71	12555	150.0	-1252255	103048
		Z	1.66	64.56	16.05	1.1	150.0		
10399	64-QAM Waveform, 40 MHz	X	3.08	68.31	16.50	0.00	150.0	±2.5%	±9.6%
	- an and set for which a children of the	Y	2.88	66.57	15.32	0.00	150.0		
	· · · · · · · · · · · · · · · · · · ·	Z	2.72	66.21	15.00		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.01	67.23	16.19	0.00	150.0	±4.1%	±9.6%
		Y	3.88	66.13	15.44		150.0		101014
		Z	3.78	66.50	15.41		150.0	· ·	

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%,

^A The uncertainties of Norm X, Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).
 ^B Linearization parameter uncertainty for maximum specified field strength.
 ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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Parameters of Probe: EX3DV4 - SN:7594

Sensor Model Parameters

	C1 fF	C2 fF	ν ^α -1	T1 msV ⁻²	T2 ms V ⁻¹	T3 ms	T4 V-2	T5 V-1	T6
х	9.8	70.35	33.40	5.09	0.00	4.90	0.59	0.00	1.00
y	10.3	75.93	34.64	1.41	0.00	4.90	0.35	0.00	1.01
z	8.5	60.86	32.81	3.62	0.00	4,90	0.41	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle	-54.8°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	mm 9
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1.mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

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Parameters of Probe: EX3DV4 - SN:7594

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity ^F (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
150	52.3	0.76	13.97	13.97	13.97	0.00	1.00	±13.3%
300	45.3	0.87	12.71	12.71	12.71	0.09	1.00	±13.3%
450	43.5	0.87	12.00	12.00	12.00	0.16	1.30	±13.3%
750	41.9	0.89	10.10	10.10	10.10	0.48	0.86	±12.0%
835	41.5	0.90	9.77	9.77	9.77	0.35	1.03	±12.0%
900	41.5	0.97	9.68	9.68	9.68	0.38	0.92	±12.0%
1450	40.5	1.20	9.46	9.46	9.46	0.51	0.80	±12.0%
1810	40.0	1.40	9.03	9.03	9.03	0.31	0.86	±12.0%
1900	40.0	1.40	8.25	8.25	8.25	0.38	0.86	±12.0%
2100	39.8	1.49	8.22	8.22	8.22	0.33	0.86	±12.0%
2300	39.5	1.67	7.87	7.87	7.87	0.40	0.90	±12.0%
2450	39.2	1.80	7.52	7.52	7.52	0.37	0.90	±12.0%
2600	39.0	1.96	7.50	7.50	7.50	0.36	0.90	±12.0%
3500	37.9	2.91	6.78	6.78	6.78	0.30	1.30	±14.0%
3700	37.7	3.12	6.71	6.71	6.71	0.30	1.30	±14.0%
5250	35.9	4.71	5,25	5.25	5.25	0.40	1.80	±14.0%
5500	35.6	4.96	4,79	4.79	4.79	0.40	1.80	±14.0%
5600	35.5	5.07	4.64	4.64	4.64	0.40	1.80	±14.0%
5750	35.4	5.22	4.85	4.85	4.85	0.40	1.80	±14.0%

C Frequency validity above 300 MHz of ±100 MHz only applies tor DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±100 MHz. The probes are calibrated using tissue simulating liquids (TSU) that deviations from the target of less than ±5% from the target values (lypically better than ±3%) and are valid for TSL with deviations of up to ±10%. It TSL with deviations from the target of less than ±5% site used, the calibration uncertainties are 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 8 GHz.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and bolow ±2% for trequencies between 3–6 GHz at any distance larger than half the probe tip diameter from the boundary.

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EX3DV4 - SN:7594

Parameters of Probe: EX3DV4 - SN:7594

Calibration Parameter Determined in Body Tissue Simulating Media

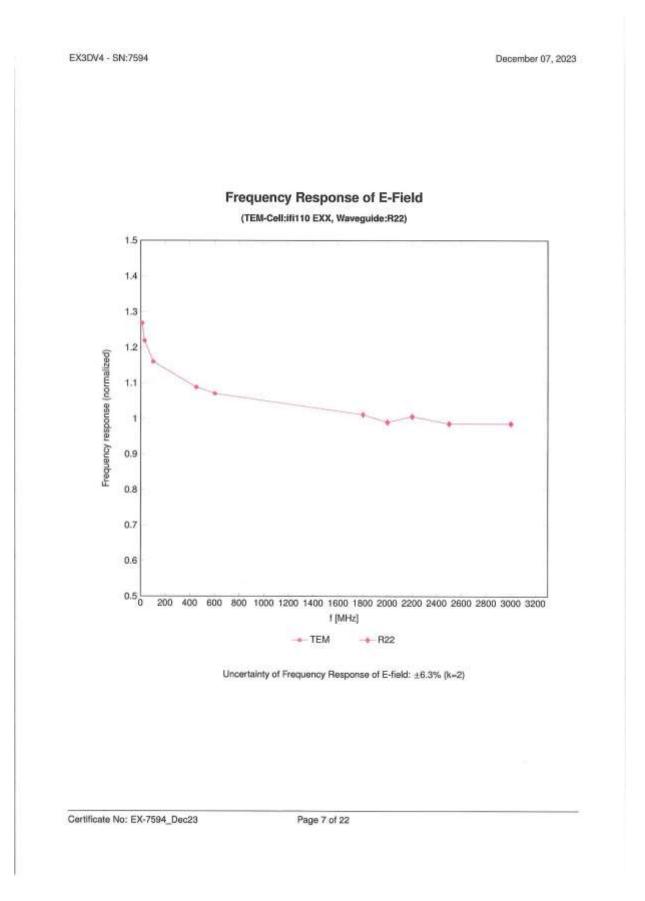
f (MHz) ^C	Relative Permittivity ^F	Conductivity [#] (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k = 2)
150	61.9	0.80	13.67	13.67	13.67	0.00	1.00	±13.3%
300	58.2	0.92	12.63	12.63	12.63	0.02	1.35	±13.3%
450	56.7	0.94	12.26	12.26	12.26	0.11	1.20	±13.3%
750	55.5	0.96	10.19	10.19	10.19	0.44	0.90	±12.0%
835	55.2	0.97	10.01	10.01	10.01	0.47	0.80	±12.0%
900	55.0	1.05	9.81	9.81	9.81	0.47	0.82	±12.0%
1450	54.0	1.30	8.69	8.69	8.69	0.30	0.80	±12.0%
1810	53.3	1.52	8.06	8.06	8.06	0.43	0.86	±12.0%
1900	53.3	1.52	8.02	8.02	8.02	0.37	0.86	±12.0%
2100	53.2	1.62	8.00	8.00	8.00	0.40	0.86	±12.0%
2300	52.9	1.81	7.86	7.86	7.86	0.41	0.90	±12.0%
2450	52.7	1.95	7.73	7.73	7.73	0.39	0.90	±12.0%
2600	52.5	2.16	7.54	7,54	7.54	0.41	0.90	±12.0%
3500	51.3	3.31	6.48	6.48	6.48	0.35	1.35	±14.0%
3700	51.0	3.55	6.41	6.41	6.41	0.35	1.35	±14.0%
5250	48.9	5.36	4.56	4.56	4.56	0.50	1.90	±14.0%
5500	48.6	5.65	4.12	4.12	4.12	0.50	1.90	±14.0%
5600	48.5	5.77	3.96	3.96	3.96	0.50	1.90	±14.0%
5750	48.3	5.94	4.03	4.03	4.03	0.50	1.90	±14.0%

^C Frequency validity above 300 MHz of ±100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ±50 MHz. The uncertainty is the RSS of the Correl uncertainty at calibration trequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for Correl assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of Corve assessed at 8 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ±10 MHz. The probes are calibrated using fiscue simulating liquids (TSL) that deviations from the target of isst than ±5% from the target values (typically below 100 MHz is 1–9 MHz, and Corve assessed at 3 MHz is 0–19 MHz. Above 5 GHz frequency validity can be extended to ±10 MHz. The probes are calibrated using fiscue simulating liquids (TSL) that deviations from the target of isst than ±5% from the target values (typically below 11.1% for 0.7 - 3 GHz and 13.1% for 3 - 6 GHz.

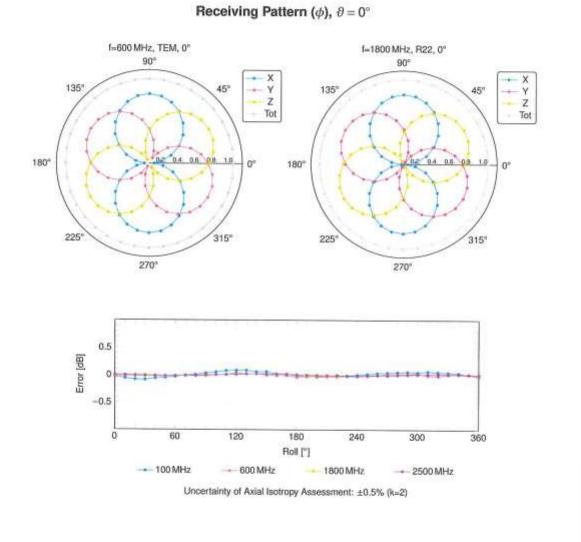
G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary offect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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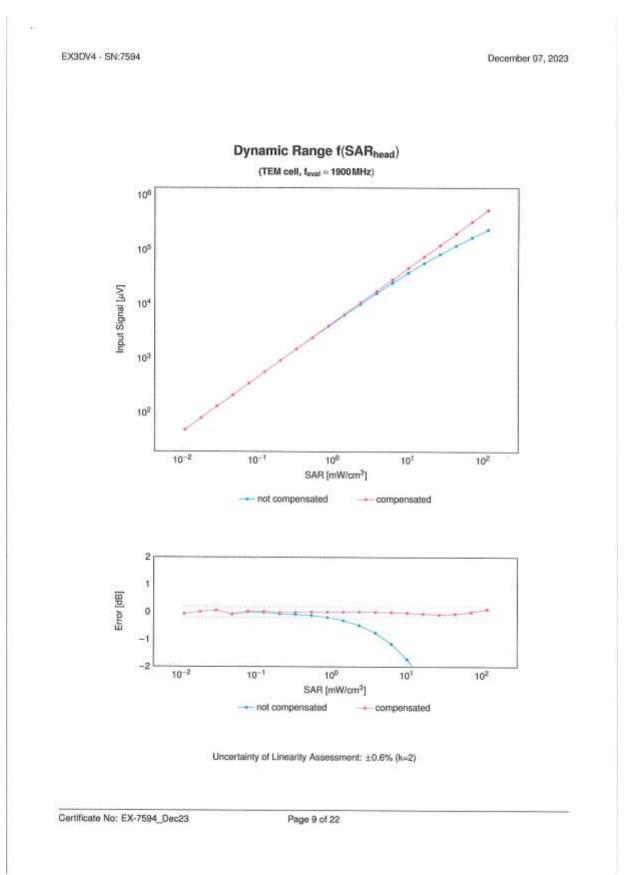


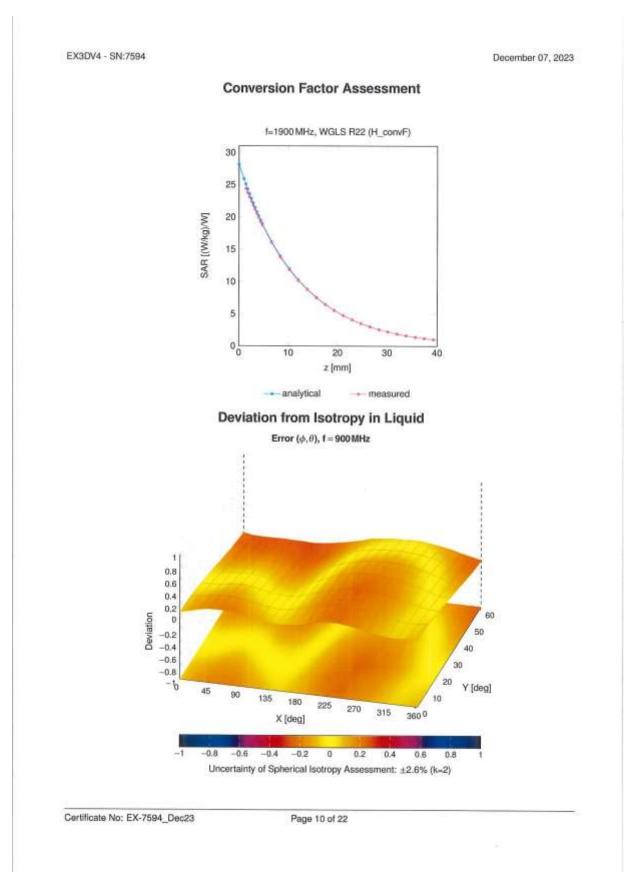
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Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
0		CW	CW	0.00	±4.7
10010	CAB	SAR Validation (Square, 100 ms, 10 ms)	Test	10.00	±9.6
10011	CAC	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6
10012	CAB	IEEE 802.11b WIFI 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	+9.6
0013	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6
0023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	±9.6
0024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	+9.6
0025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±9.6
0026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	19.8
0027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	18.6
0.028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	10.0
0.029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	+9.6
0030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	±9.6
0031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth		and the second s
0032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)		1.87	±9.6
0033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	1.16	±9.6
0034	CAA	IEEE 802.15.1 Bluetooth (Pl/4-DQPSK, DH3)	Bluetoath	7,74	±9.6
0035	CAA		Bluetooth	4.53	±9.6
0035	CAA	IEEE 802 15.1 Bluetooth (PU4-DOPSK, DH5)	Bluetooth	3.83	±9.6
0036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6
		IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4,77	±9,6
0038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	±9.6
0039	CAB	CDMA2000 (1xATT, RC1)	CDMA2000	4.57	±9.6
0042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PW-DQPSK, Halfrato)	AMPS	7.78	±9.6
0044	CAA	IS-91/EIA/TIA-653 FDD (FDMA, FM)	AMPS	0.00	±9.6
0048	CAA	DECT (TDO, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6
0049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6
0056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Maps)	TD-SCDMA	11.01	±9.6
0058	DAC	EDGE-FOD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±9.6
0.059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	±9.6
0060	CAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6
0061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6
0062	CAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6
0.063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	+9.6
0.064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6
0.065	CAD	IEEE 802.11a/h WiFI 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	+9.6
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	+9.6
0.067	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	+9.6
0.068	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6
0.069	CAD	IEEE 802.11a/h WIFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6
0071	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/DFDM, 9 Mbps)	WLAN	9.83	+9.6
0072	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6
0073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6
0074	CAB	IEEE 802.11g WFI 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6
0075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.30	±9.6
0076	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6
0077	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6
0081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	the second s
0082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fultrate)	AMPS	4.77	±9.6 ±9.6
0000	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	the second	and the second se
0.097	CAC	UMTS-FDD (HSDPA)	WCDMA	6.56	±9.6
0098	CAC	UMTS-FDD (HSUPA, Sublest 2)	WCDMA	3.98	+9.6
0099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)		3.98	19.6
0100	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	GSM	9.55	+9.6
0101	CAF		LTE-FDD	5.67	±9.6
0102	CAF	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-C04M)	LTE-FDD	6.42	+9.6
0103	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-GAM)	LTE-FDD	6.60	±9.6
in succession in	and the local division of the local division		LTE-TOD	9.29	±9.6
0104	CAH	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 18-QAM)	LTE-TDD	9.97	±9.6
0105	and the second se	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.8
0108	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9,6
0109	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6
0110	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-FDD	5.75	£9.6
0111	CAH	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-FDD	6.44	±9.6

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10112	CAH	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDO	6.59	±9.6
10113	CAH	LTE-FOD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	+9.6
10114	CAD	IEEE 802,11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	±9.6
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-GAM)	WLAN	8.46	±9.6
0116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	19.6
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	±9.6
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	±9.6
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	±9.6
10140	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	+9.6
10141	CAF	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDO	6.53	19.6
10142	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDO	5.73	±9.6
10143	CAF	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-DAM)	LTE-FDD	6.35	±9.6
10144	CAF	LTE-FDD (SC-FDMA, 190% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	±9.6
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDO	5.76	±9.6
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDO	6.72	+9.6
	CAF	LTE-FOD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	19.6
10150	CAH	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-DAM)	LTE-FDD	6.60	+9.6
and the second second	GAH	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6
10152	CAH	LTE-TOD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10154	CAH	LTE-TDD (SC-FDMA, 50% RB, 20 MH2, 64-QAM) LTE-FDD (SC-FDMA, 50% RB, 10 MH2, QPSK)	LTE-TOD	10.05	±9.6
10 155	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, GPSK) LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	5.75	±9.6
10156	CAH	LTE-FDD (SC-FDMA, 50% PB, 10MHz, 18-D0M) LTE-FDD (SC-FDMA, 50% PB, 5MHz, QPSK)	LIE-FDD	6.43	±9.6
0157	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	5.79	±9.6
10158	CAH	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD LTE-FDD	6.49	±9.6
10159	CAH	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)		6.62	±9.6
10160	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, OPSK)	LTE-FDD LTE-FDD	6.66	±9.6
0161	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)		5.82	±9.6
10162	CAF	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.43	±9.6
10 166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD LTE-FDD	6.58	±9.6
0167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 18-QAM)	LTE-FDD	5.46	±9.6
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FOD	6.21	±9.6
10169	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, OPSK)	LTE-FOD	5.73	±9.6
10170	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0171	AAF	LTE-FDD (SC-FDMA, 1 BB, 20 MHz, 84-QAM)	LTE-FOD	6,49	±9.6 ±9.6
10172	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TOD	9,21	19.6
10173	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TOD	9,48	+9.6
10174	CAH	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.25	+9.6
10175	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	+9.6
10176	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	8.52	+9.6
10177	CAJ	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	5.73	19.6
10178	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.52	19.6
0179	CAH	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 84-QAM)	LTE-FDD	6.50	19.6
10180	CAH	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 84-QAM)	LTE-FDD	6.50	±9.6
10 181	CAF	LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-FDD	5.72	±9.6
0182	CAF	LTE-FOD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0183	AAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	10.0
0184	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDO	5.73	±9.6
0165	CAF	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-FDD	6.51	±9.6
0186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	19.6
0187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6
0188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	±9.6
0189	AAG	LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)	LTE-FDD	8.50	±9.6
0193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	±9.6
0194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	±9.6
0195	CAD	IEEE 802,11n (HT Greenfield, 65 Mbps, 64-QAM)	WLAN	8.21	±9.6
0196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	±9.6
0197	CAD	IEEE 802.11n (HT Mixed, 39 Mops, 16-QAM)	WLAN	8.13	±9.6
0198	CAD	IEEE 802.11n (HT Mixed, 66 Mbps, 64-QAM)	WLAN	8.27	±9.6
0219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	+9.6
0220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6
0221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6
0222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6
0223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6
0224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6

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10:225	CAC	UMTS-FDD (HSPA+)	WCDMA	5.97	±9.6
10226	CAC	LTE-TDD (SC-FDMA, 1 BB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	+9.6
10227	CAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)	LTE-TDD	10.26	±9.6
10228	CAC	LYE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TOD	9.22	+9.6
10229	CAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6
10230	CAE	LTE-TOD (SC-FDMA, 1 R8, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10.231	CAE	LTE-TDD (SC-FDMA, 1 R8, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6
10232	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDO	9.48	±9.6
10233	CAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDO	10.25	±9.6
10234	CAH	LTE-TDD (SC-FDMA, 1 R8, 5 MHz, QPSK)	LTE-TDD	9.21	19.6
10235	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDO	9.48	±9.6
0236	CAH	LTE-TDD (SC-FDMA, 1 R8, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6
10227	CAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6
10238	CAG	LTE-TDD (SC-FDMA, 1 R8, 15 MHz, 16-QAM)	LTE-TDO	9.48	19.6
10239	CAG	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDO	10.25	+9.6
10240	CAG	LTE-TOD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-TDO	9.21	+9.6
10241	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	19.6
10242	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDO	9.86	+9.6
10243	CAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDO	9.45	19.6
10244	CAE	LTE-TDD (SC-FDMA, 50% FIB, 3MHz, 16-QAM)	LTE-TDO	10.06	+9.6
10245	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDO	10.05	19.6
10246	CAE	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6
10247	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, GF5K)	LTE-TOD	9.30	19.8
10248	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)		the state of the s	
10249	CAH		LTE-TDO	10.09	±9.6
10249	CAH	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, OPSK)	LTE-TDD	9.29	±9.6
		LYE-TOD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6
10251	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDO	10.17	±9.6
10252	CAH	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6
10253	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6
10254	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6
10255	CAG	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6
10256	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	+9.6
10257	GAG	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6
10258	CAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	+9.6
10259	CAE	LTE-TDD (SC-FOMA, 100% RB, 3 MHz, 16-QAM)	LTE-TOD	9.98	±9.6
10/260	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6
10261	CAE	LTE-TOD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6
10/262	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6
10:263	CAH	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	±9.6
10264	CAH	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6
10265	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	±9.6
10266	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	±9.6
0267	CAH	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6
10268	GAG	LTE-TDD (SC-FDMA, 100% FIB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6
10.588	CAG	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TOD	10.13	±9.6
10270	CAG	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6
0274	CAC	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	±9.6
10275	CAC	UMTS-FDD (HSUPA, Sublest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6
0277	CAA	PHS (QPSK)	PHS	11.81	±9.6
10278	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.5)	PHS	11.81	±9.6
0279	CAA	PHS (QPSK, BW 884 MHz, Rolloff 0.38)	PHS	12.18	±9.6
10290	AAB	CDMA2000, RC1, SD55, Full Rate	CDMA2000	3.91	±9.6
0291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6
0292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6
0293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	+9.6
0295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6
0297	AAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	19.6
0298	AAE	LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5.72	+9.6
0299	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6
0300	AAE	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	and the second se	and the second se
0301	AAA	IEEE 802.16e WIMAX (29:18, 5 ms, 10 MHz, QPSK, PUSC)	WIMAX	6.60	±9.6
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10 MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.03	±9.6
0302	AAA		A STATE OF THE OWNER AND A DESCRIPTION OF THE OWNER AND A DESC	12.57	±9.6
0303	AAA	IEEE 802,16e WIMAX (31:15, 5 ms, 10 MHz, 64QAM, PUSC)	WiMAX	12.52	19.6
0304	AAA	IEEE 802.16e WIMAX (29.16, 5ms, 10 MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6
	000	IEEE 802.16e WIMAX (31:15, 10 ms, 10 MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	±9.6

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10307	AAA	IEEE 802.16e WiMAX (29:18, 10 ms, 10 MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	±9.6
10308	AAA	IEEE 802.16e WMAX (29:18, 10 ms, 10 MHz, 16QAM, PUSC)	WIMAX	14,46	±9.6
10309	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	±9.6
10310	AAA	IEEE 802.16e WIMAX (29:18, 10 ms, 10 MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	±9.6
10311	AAE	LTE-FOD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6
10313	AAA	IDEN 1:3	IDEN	10.51	+9.6
10314	AAA	IDEN 1:8	IDEN	13,48	±9.6
10315	AAB	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6
10316	AAB	IEEE 802.11g WIFI 2.4 GHz (ERP-OFDM, 6Mbps, 95pc duty cycle)	WLAN	8.36	±9.6
10317	AAE	IEEE 802.11a WIFI 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.35	±9.6
10362	AAA	Pulse Wavelorm (200Hz, 10%)	Generic	10.00	±9.6
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	±9.6
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6
0356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	±9.6
10387	AAA	GPSK Waveform, 1 MHz	Generic	5.10	+9.6
0388	AAA	QPSK Wavelorm, 10 MHz	Generic	5.22	±9.6
0.396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	+9.6
0399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	±9.6
0400	AAE	IEEE 802.11ac WiFi (20 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	+9.6
0401	AAE	IEEE 802.11ac WiFi (40 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	±9.6
10402	AAE	IEEE 802.11ac WIFI (80 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	±9.6
0403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	+9.6
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6
0406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	±9.6
10410	AAH	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	±9.6
10414	AAA	WLAN CCDF, 64-QAM, 40 MHz	Generic	8.54	19.6
10415	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	±9.6
10416	AAA	IEEE 802.11g WIFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10417	AAC	IEEE 802.11a/h WFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6
10418	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 98pc duty cycle, Long preambule)	WLAN	B.14	+9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	±9.6
10.422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	±9.6
0423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	+9.6
10.424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	19.6
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	+9.6
10428	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8,45	+9.6
10.427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	±9.6
10430	AAE	LTE-FDD (OFDMA, SMHz, E-TM 3.1)	LTE-FDD	8.28	+9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	+9.6
10432	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10433	AAD	LTE-FDD (OFDMA, 20MHz, E-TM 3.1)	LTE-FDD	8.34	±9.6
10434	AAB	W-CDMA (BS Test Model 1, 84 DPCH)	WCDMA	8.60	+9.6
0435	AAG	LTE-TDD (SC-FDMA, 1 R8, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
0447	AAE	LTE-FDD (OFDMA, 5MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6
10448	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Glipping 44%)	LTE-FDD	7.53	19.6
0.449	AAD	LTE-FDD (OFDMA, 15MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	±9.6
0450	AAD	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	±9.6
0451	AAB	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	±9.6
10453	AAE	Validation (Square, 10ms, 1 ms)	Test	10.00	±9.6
10456	AAC	IEEE 802.11ac WFI (160 MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	
10457	AAB	UMTS-FDD (DC-HSDPA)	WCDMA	and the second state of the later	±9.6
10458	AAA	CDMA2000 (1xEV-DO, Rev. 8, 2 carriers)	CDMA2800	6.62	±9.6 ±9.6
10.459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 camers)	CDMA2000	8.25	+9.6
0460	AAB	UMTS-FDD (WCDMA, AMR)		4.44	
0461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subtrame-2,3,4,7,8,9)	LTE-TDD	2.39	±9.6
0462	AAC	LTE-TDO (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	140.0101100000	7.82	+9.6
0463	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM, UL Subframe-2,3,4,7,6,9)	LTE-TDD LTE-TDD	8.30	±9.6
0464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK, UL Subframe=2,3,4,7,6,8)		8.56	±9.6
10465	AAD	LTE-TOD (SC-FDMA, 1 RB, 3 MHz, GPSA, DL Subrame=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subrame=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
0466	AAD		LTE-TOD	8.32	+9.6
0466	AAG	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.57	±9.6
0467	- Provide States	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM, UL Subframo=2,3,4,7,8,9)	LTE-TDD	8.32	+9.6
0.469	AAG	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.56	±9.6
0470	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	±9.6
	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.32	±9.6

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10-472	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10473	AAF	LTE-TDD (SC-FDMA, 1 R8, 15 MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.82	±9,6
10474	AAF	LTE-TDD (SC-FDMA, 1 RB, 15MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	+9.6
10.475	AAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
0477	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sublrame-2,3,4,7,8,9)	LTE-TDD	8.32	±9.6
10478	AAG	LTE-TOD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sublrame=2,3,4,7,8,9)	LTE-TDD	8.57	±9.6
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2.3,4,7,8,9)	LTE-TDD	7.74	+9.6
10.480	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	19.8
10481	AAC	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.45	±9.5
10482	AAD	LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	+9.6
10483	AAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UI, Subframe=2,3,4,7,8,9)	LTE-TOD	8.39	±9.6
0484	AAD	LTE-TOD (SC-FDMA, 50% RB, 3MHz, 64-QAM, UL Sublrame-2,3,4,7,8,9)	LTE-TDD	8.47	+9.6
0485	AAG	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	±9.6
0486	AAG	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	8.38	±9.6
0487	AAG	LTE-TOD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.60	±9.6
0488	AAG	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.70	±9.6
0489	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 18-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TOD	8.31	±9.6
0490	AAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subtrame-2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
0491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subtrame-2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
0492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.41	±9.6
0.483	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.55	±9.6
0494	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.74	±9.6
0495	AAG	LTE-TD0 (SC-FDMA, 50% R8, 20 MHz, 16-QAM, UL Subframe=2.3,4,7,8,9)	LTE-TOD	8.37	±9.6
0496	AAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.54	±9.6
0497	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subtrame-2,3,4,7,8,9)	LTE-TOD	7.67	the second se
0498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	the same second s	±9.6
0499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subtrame=2.3,4,7,8,9)	LTE-TOD	8.40	±9.8
0500	AAD	LTE-TDD (SC-FDMA, 100% RB. 3MHz, OPSK, UL Subtrame-2.3.4.7.8.9)	the second se	the second se	±9.6
0501	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM, UL Subtrame-2.3,4,7,8,9)	LTE-TDD	7.67	±9.6
0502	AAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.44	±9.6
0503	AAG		LTE-TOD	8.52	±9.6
0504	AAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK, UL Subtrame=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6
0.505	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.31	±9.6
0506	AAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subitame=2,3,4,7,8,9)	LTE-TDD	8.54	19.8
0.507	AAG	LTE-TOD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sobirante-2,3,4,7,8,9)	LTE-TDO	7.74	±9.6
0508	AAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 18-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6
10509	singer and shows in the local division of the local division of the local division of the local division of the	LTE-TOD (SC-FOMA, 100% RB, 10 MHz, 84-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6
	AAF	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TOD	7.99	+9.6
0510	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 16 QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	±9.6
0511	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TOD	8.51	±9.6
0512	AAG	LTE-TOD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6
0513	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe-2,3,4,7,8,9)	LTE-TDD	8.42	±9.6
0514	AAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	±9.6
0515	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 2 Mops, 99pc duty cycle)	WLAN	1.58	±9.6
0516	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 5.5 Mops, 99pc duty cycle)	WLAN	1,57	±9.6
0517	AAA	IEEE 802 11b WIFI 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	±9,6
0518	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	±9,6
0519	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	±9.6
0520	AAC	IEEE 802.11a/h WiFI 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	±9.6
0521	AAC	IEEE 802.11 a/h WIFI 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	±9.6
0522	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	±9,6
0523	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	±9.6
0524	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8,27	±9.6
0525	AAC	IEEE 802.11ac WIFI (20 MHz, MCS0, 99pc duty cycle)	WLAN	8,36	±9.6
0526	AAC	IEEE 802.11ac WIFI (20 MHz, MCS1, 99pc duty cycle)	WLAN	8,42	±9.6
0527		IEEE 802.11ac WIFI (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.21	±9.6
0528	AAC	IEEE 802.11ac WIFi (20 MHz, MCS3, 99pc duty cycle)	WLAN	8,36	±9.6
0529	AAC	IEEE 802.11ec WiFi (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.36	±9.6
0531	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.43	+9.6
0532	AAC	IEEE 802.11ac WIFI (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
0533	AAC	IEEE 802.11ac WIFI (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.38	±9.6
0534	AAC	IEEE 802.11ac WIFI (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.45	±9.6
0535	AAC	IEEE 802.11ac WIFi (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.45	+9.6
0536	AAC	IEEE 802.11ac WIFI (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.32	19.6
0537	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	+9.6
0538	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.54	±9.6
0540	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6

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10541	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 99pc duly cycle)	WLAN	8.46	±9.6
0542	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.65	±9.6
0543	AAC	IEEE 802.11ac WiFi (40 MHz, MCB9, 89pc duty cycle)	WLAN	8.65	±9.6
0544	AAC	IEEE 802 11ac WiFi (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6
0545	AAC	IEEE 802,11ac WFi (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
0546	AAC	IEEE 802, 11ac WFI (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6
0547	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.49	+9.6
0548	AAC	IEEE 802.11ac WIFI (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6
0550	AAC	IEEE 802.11ac WIFI (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.38	±9.6
10551	AAC	IEEE 802.11ac WIFI (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.50	±9.6
0 552	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.42	±9.6
0.553	AAC	IEEE 802 11ac WiFi (80 MHz, MC59, 99pc duty cycle)	WLAN	8.45	±9.6
0 554	AAD	IEEE 802.11ao WiFi (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.48	19.6
0.555	AAD	IEEE 802.11ac WIFI (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
0 556	AAD	IEEE 802.11ac WIFI (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.50	and the second se
0557	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 99pc duty cycle)	WLAN		±9.6
0558	AAD	IEEE 802.11ac WiFI (160 MHz, MCS4, 98pc duty cycle)		8.52	±9.6
0560	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 98pc duty cycle)	WLAN	8.61	±9.6
0561	AAD	IEEE 802.11ac WIFI (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.73	±9.5
and and and the local division of the local	and the second se		WLAN	8.56	±9.6
0562	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 99pc duty cycls)	WLAN	8.69	±9.6
0563	AAD	IEEE 802.11ac WIFI (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6
0.564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.25	±9.6
0.565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.45	+9.6
0.566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.13	±9.6
0567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	WLAN	8.00	±9.6
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.37	±9.6
10.569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.10	±9.6
10.570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.30	±9.6
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WEAN	1.99	19.6
0572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	+9.6
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN	1.98	19.6
10574	AAA	IEEE 802.11b WIFI 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN	1.98	±9.6
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
10576	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
0577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	+9.6
10578	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	±9.6
10579	AAA	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 24 Mops, 90pc duty cycle)	WLAN	8.36	+9.6
0580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 35 Mbps, 90pc duty cycle)	WLAN	8.76	19.6
0581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mups, 90pc duty cycle)	WLAN	8.35	19.6
0682	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6
0583	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	WLAN	8.59	±9.6
0584	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN	8.60	±9.6
0 5 8 5	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	WLAN	8.70	±8.6
0.586	AAC	IEEE 802.11a/h WIFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	WLAN	8.49	19.6
0.587	AAC	IEEE 802.11a/h WFI 5 GHz (OFOM, 24 Mbps, 90pc duty cycle)	WLAN	8.36	
0588	AAC	IEEE 802.11a/h WIFI 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	the second se	±9.6
0589	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	the second se	8.76	±9.6
0.590	AAC	IEEE 802.11a/h WFI 5 GHz (OFDM, 46 Mbps, 90pc duty cycle)	WLAN	8,35	±9.6
0591	AAC	IEEE 802.11am WiFI's GHz (UPDW, 54 Mbps, stdpc duty cycle) IEEE 802.11n (HT Mknd, 20 MHz, MCS0, 90pc duty cycle)	WLAN	8,67	±9/8
0592	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS0, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle)	WLAN	8.63	±9.6
0593	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS1, 90pc duty cycle) IEEE 802.11n (HT Mixed, 20 MHz, MCS2, 80pc duty cycle)	WLAN	8.79	±9.6
0595	AAC	IEEE 802,116 (H1 Mixed, 20 MHz, MCS2, 80pc duty cycle) IEEE 802,116 (H7 Mixed, 20 MHz, MCS3, 90pc duty cycle)	WLAN	8.64	±9.6
0595	AAC		WLAN	8,74	±9,6
0595	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6
and the second second	and the second second	IEEE 802.11n (HT Mixed, 20 MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6
0597	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6
0598	AAC	IEEE 802.11n (HT Mixed, 20 MHz, MCS7, 90pc duty cycle)	WLAN	8,50	±9.6
0599	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS0, 90pc duly cycle)	WLAN	8.79	±9.6
0600	AAC	IEEE 802.11n (HT Mized, 40 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
0601	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6
0602	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6
0.603	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6
0604	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6
0606	AAC	IEEE 802 11n (HT Mixed, 40 MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6
0606	AAC	IEEE 802.11n (HT Mixed, 40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
0607	AAC	IEEE 802.11ac WIFI (20 MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6
0608	AAC	IEEE 802.11ac WiFi (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k =
10609	AAC	IEEE 802.11ac WiFi (20 MHz; MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WIFI (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	+9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.94	±9.6
0614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	19.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10616	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WIFI (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10-619	AAC	IEEE 802.11ac WIFI (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	19.8
0.620	AAC	IEEE 802.11ac WIFI (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	+9.6
10621	AAC	IEEE 802.11ac WIFI (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10.622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.68	±9.6
10.623	AAC	IEEE 802.11ac WIFI (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6
0.624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6
10-625	AAC	IEEE 802.11ac WIFI (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
0626	AAC	IEEE 802.11ac WiFi (80 MHz, MCSO, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6
0.628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.71	±9.6
0.629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	+9.6
10630	AAC	IEEE 802.11an WIFI (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
0631	AAC	IEEE 802.11ac WIFI (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.81	
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN		±9.6
0633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.74	±9.6
10634	AAC	IEEE 802.11ac WFI (80 MHz, MCS8, 90pc duty cycle)		8.83	±9.6
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8,80	±9.6
10636	AAD	IEEE 802.11ac WiFI (160 MHz, MCS0, 90pc duty cycle)	the state of the s	8.81	±9.6
10637	AAD	IEEE 802.11ac WiFI (160 MHz, MCS0, sope duty cycle)	WLAN	8,83	±9.6
10638	AAD		WLAN	8.79	±9.6
10639	transfer and shirts	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.86	+9.6
	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	19.6
10640	AAD	IEEE 802.11ac WFi (160 MHz, MCS4, 90pc duty cycle)	WLAN	8.98	±9.6
10641	AAD	IEEE 802.11ac WFI (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.08	19.6
10642	AAD	IEEE 802.11ac WFI (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ar: WFI (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6
10644	AAD	IEEE 802.11ac WFI (160 MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6
10645	AAD	IEEE 902.11ac WIFI (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6
10646	AAH	LTE-TOD (SC-FDMA, 1 RB, 5MHz, QPSK, UL Subframe=2,7)	LTE-TDO	11.96	±9.6
10647	AAG	LTE-TOD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Subirame~2,7)	LTE-TDD	11.98	+9.6
0648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TOD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TOD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.42	±9.6
0654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
0655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	±9.6
0.658	AAB	Pulse Waveform (200Hz, 10%)	Test	10.00	±9.6
0.659	AAB	Putse Waveform (200Hz, 20%)	Test	6.99	±9.6
0.660	BAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6
0661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
0862	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	±9.6
0670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
0671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN	9.09	±9.6
0672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	8.57	±9.6
0673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.78	±9.6
0674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.8
0675	AAC	IEEE 802.11ex (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.90	±9.6
0676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	+9.6
0677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
0678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
0010	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.80	+9.6
0679		IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	+9.6
0679 0680 0681	AAC		2 1 Mar 10 M		the second s
0679		IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	+9.6
0679 0680 0681	AAC		WLAN	8.83	+9.6
0679 0680 0681 0682	AAC AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duly cycle)	WLAN	8.42	±9.6
0679 0680 0681 0682 0683	AAC AAC AAC				and the second se

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10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10-688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
0690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
0691	AAC	IEEE 802 11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10692	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	+9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
0694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10.695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	+9.6
10.696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10:697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
0.698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
00801	AAC	IEEE 802.11nx (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	MC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10702	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
0703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN		
0706	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6 ±9.6
0707	AAC	IEEE 802.11ax (40 MHz, MCS11, supe duty cycle)	WLAN		- Low day
0708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)		8.32	±9.6
0709	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	+9.6
0710	AAC		WLAN	8.33	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10712	AAC	IEEE 802.11ex (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
	and the second division of the local divisio	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.8
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	+9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duly cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.0
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.61	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	£9.6
10.723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11 ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ex (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycla)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11 ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	+9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	+9.6
10736	AAC	IEEE 802.11sx (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	19.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802 11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	B.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	+9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MC510, 99pc duty cycle)	WLAN	8.40	±0.6
0742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
0743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	19.6
0744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
0745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	
0746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	the second se	±9.6
0746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)		9.11	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	9.04	8.8±
10748	AAC	IEEE 802.11ax (160 MHz, MCSS, 90pc duty cycle) IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.93	±9.6
10749	and the lot of the lot	with the last week with a fear to be a second se	WLAN	8.90	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
0752	AAC	IEEE 802.11sx (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6

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10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8,94	±9.6
0755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
0758	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
0757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
0758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	19.6
0759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
0760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	6.49	±9.6
0761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	+9.6
0762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
0763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
0764	AAC	IEEE 802.11ax (160 MHz, MC59, 99pc duty cycle)	WLAN	8.54	±9.6
0765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	19.6
0766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	+9.6
0767	AAE	5G NR (CP-OFDM, 1 RB, 5MHz, OPSK, 15kHz)	5G NR FR1 TDD	7.99	19.6
0768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	19.6
0769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	19.6
0770	AAD	- The second standard and report and a second standards and s		the second second	the second se
0771		5G NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
the local division of	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
0772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
0773	and the second s	5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
0774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
0775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
0776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
0777	AAC	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 TDD	B.30	±9.6
0778	AAD	5G NR (CP-OFDM, 60% RB, 20MHz, QPSK, 15kHz)	53 NR FR1 TDD	8.34	19.6
0779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, OPSK, 15 kHz)	5G NR FR1 TDD	8.42	±9.6
0780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8,38	±9.6
0781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.6
0782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	+9.6
0783	AAE	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
0784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
0785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	19.6
0786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	+9.6
0.787	AAD	5G NR (GP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	19.6
0788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	+9.6
0789	AAD	50 NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	+9.6
0790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	+9.6
0791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	+9.6
0792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
0793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	+9.6
0794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	19.6
0795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.84	+9.6
0796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	+9.6
0797	AAD	5G NR (CP-OFOM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	19.6
0798	AAD	5G NR (CP-OFOM, 1 RB, 50 MHz, QPSK, 30 kHz)	the second s		and the second second
0799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	7.89	19.6
0801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
descent strength	AAD	and a set of the set o	SG NR FR1 TDD	7.89	±9.6
0802	and the second second	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
0803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30kHz)	5G NR FR1 TDD	7.93	±9.6
0805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8,37	±9.6
0809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	B.34	±9.6
0810	AAD	5G NR (CP-DFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
0812		5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
OB17	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.35	±9.6
0818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.34	±9.6
0819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30kHz)	5G NR FR1 TDD	8.33	±9.6
0820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
0821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
0.822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	B.41	±9.6
0 823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	8.36	±9.6
0824	AAD	5G NR (CP-OFDM, 108% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	+9.6
0.825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDO	8.41	±9.6
and a second s	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30kHz)	5G NR FR1 TDO	8.42	±9.6
0827			300100111012	Sec. The	= 0.0

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E K =
10829	AAD	5G NR (CP-OFDM, 100% R8, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	DAA	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, OPSK, 60 kHz)	SG NR FR1 TDD	7.70	±9.6
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, GPSK, 60 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FRI TDD	7.68	±9.6
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.70	±9.8
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FRI TOD	7.67	±9.6
10841		5G NR (CP-OFDM, 1 RB, 100 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	8.34	+9.6
10854	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	±9.6
10855	AAD	SG NR (CP-OFDM, 100% RB, 15MHz, CPSK, 60kHz)	5G NR FR1 TDD	8.34	+9.6
10856	AAD	a second s	5G NR FR1 TOD	8,36	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, OPSK, 60 kHz)	5G NR FR1 TOD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 T00	8.36	±9.6
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz) 5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.34	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, CPSK, 60 kHz)	5G NR FR1 TOD	8.41	±9.6 ±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, OPSK, 80 kHz)	5G NR FR1 TDD	8.41	the second se
10864	AAD	5G NR (CP-OFDM, 100% R8, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100MHz, QPSK, 60 kHz)	SG NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6 ±9.6
10868	AAD	5G NR (DFT-e-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	±9.6
10869	AAE	ISG NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	A CONTRACTOR OF A CONTRACTOR O
10870	AAE	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NH FR2 TDD	5.86	±9.6 ±9.6
10871	AAE	SG NR (DET-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAE	5G NR (DFT-6-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	56 NR FR2 TDD	6.52	±9.6
10873	AAE	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	19.6
10874	AAE	5G NR (DFT-8-OFDM, 100% R8, 100MHz, 64QAM, 120kHz)	5G NR FR2 TDD	6.65	+9.6
10875	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	19.6
10876	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	+9.6
10877	AAE	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	19.6
10878	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	+9.6
10879	AAE	5G NR (CP-OFDM, 1 R8, 100 MHz, 84QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAE	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	+9.6
10881	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	19.6
10882	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	+9.6
10883	AAE	5G NR (DFTs-OFDM, 1 RB, 50 MHz, 160AM, 120kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	+9.6
10885	AAE	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAE	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	19.6
10887	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	+9.6
10888	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.8
10889	AAE	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	+9.6
10890	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAE	50 NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	50 NR FR2 TDD	8.13	±9.6
10892	AAE	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	19.6
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.66	+9.6
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.67	19.6
0899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30kHz)	50 NR FR1 TDD	5.67	±9.6
0900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	BAA	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	+9.6
10902	BAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9,6
0903	AAB	53 NR (DFT-6-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	+9.6
10904	AAB	SG NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10907	AAC	5G NR (DFT-e-OFDM, 50% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
80801	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
0909	AAB	5G NR (DFT-9-OFDM, 50% RB, 15MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.83	±9.6

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10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0913	AAB	5G NR (DFT-a-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0914	AAB	5G NR (DFT:s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.8
0915	AAB	5G NR (DFT-8-OFDM, 50% RB, 60 MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.83	±9.6
0916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
0917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
0918	AAC	5G NR (DFTs-OFDM, 100% RB, 5MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.86	±9.6
0918	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
0920	AAB	5G NR (DFTs-OFOM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
0921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0922	AAB	5G NR (DFTs-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	+9.6
0923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
0924	AAB	5G NR (DFTs-OFDM, 100% RB, 40MHz, QPSK, 30kHz)	5G NR FR1 TDD	5.84	±9.6
0925	AAB	5G NR (DFT/s-OFDM, 100% RB, 50 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
0926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	53 NR FR1 TDD	5.84	±9.6
0.927	AAB	5G NR (DFT:s-OFDM, 100% RB, 80MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	19.6
0928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	+9.6
0929	AAC	5G NR (DFTs-OFDM, 1 RB, 10 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	and the second sec
0930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15)(Hz)	5G NR FR1 FDD	and the second se	±9.6
0931	AAC	5G NR (DFTs-OFDM, 1 RB, 20 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.52	±9.6
0932	AAC	5G NR (DFTs-OFDM, 1 RB, 25 MHz, QPSK, 15kHz)		5.51	±9.6
10933	AAC	5G NR (DFT-8-OFDM, 1 RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	19.6
0934	AAC		5G NR FR1 FDD	5.51	+9.6
0935	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	19.6
the second second	AAC	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.51	±9.6
0936	and the second s	5G NR (DFT-s-OFDM, 50% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	+9.6
0937	AAC	5G NR (DFT-8-DFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.6
0938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.90	±9.6
0939	AAC	5G NR (DFT-s-OFDM; 50% RB, 20 MHz, OPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6
0940	MC	5G NR (DFT-6-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	SG NR FR1 FDD	5.89	±9.6
0941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	≘9.6
0942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.85	+9.6
0943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
0944	AAC	5G NH (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
0946	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
0946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.8
0947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
0948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15kHz)	5G NR FR1 FDD	5.94	±9.6
0949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
0950	AAC	5G NR (DFT-8-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
0951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	+9.6
0952	AAA	SG NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.6
0.953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.15	±9.6
0954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 84-QAM, 15kHz)	5G NR FR1 FDD	8.23	19.6
0955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8,42	19.6
0956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	19.6
0.957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	53 NR FR1 FDD	8.31	+9.6
0958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30kHz)	5G NR FR1 FDD	8.61	19.6
0959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-GAM, 30 kHz)	SG NR FR1 FDD	8.33	+9.6
0960	AAC	5G NR DI. (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	19.6
0961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15kHz)	5G NR FR1 TDD	9.36	+9.6
0962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FRI TOD	9.40	±9.6
0963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	+9.6
0964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FRI TDD	9.29	±9.6
0965		5G NR DL (CP-OFDM, TM 3.1, 10MHz, 64-QAM, 30kHz)	5G NR FR1 TOD	9.37	±9.6
0966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30kHz)	5G NR FR1 TDD	9.37	and the second sec
0967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30kHz)			±9.6
0968	AAB	5G NR DL (CP-OFDM, TM 3.1, 201112, 64-GAM, 30 kHz)	SG NR FR1 TDD	9.42	±9.6
0972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	9.49	19.6
0972	AAB		5G NR FR1 TDD	11.59	±9.6
	AAB	SG NR (DFT-s-OFDM, 1 RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TDO	9.06	±9.6
0974		SG NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	50 NR FR1 TDD	10.28	±9.6
a desiring a	AAA	ULLA BOR	ULLA	1.16	±9.6
0979	AAA	ULLA HDR4	ULLA	8,58	±9.6
0980	AAA	ULLA HDR8	ULLA	10.32	±9.6
0981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
0982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

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10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	+9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	+9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10966	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	+9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDO	9.53	19.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	+9.6
10969	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	+9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 84-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.46	+9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	+9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	+9.8
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 84-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	+9.6
11014	AAA	IEEE 802.11bo (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	+9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	+9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	+9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.41	19.6
11018	AAA	IEEE 802.11bo (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	+9.6
11020	AAA	IEEE 802.11he (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	19.8
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	+9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	19.6
11023	AAA.	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	+9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	+9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	+9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	+9.6

^E Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX-7594_Dec23

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Appendix C

Dipole Calibration Certificates

Calibration Laborator Schmid & Partner Engineering AG reughausstrasse 43, 8004 Zuric	-		Service suisse d'étalonnage Servizio svizzero di taratura
Accredited by the Swiss Accredita The Swiss Accreditation Service Multilateral Agreement for the re	e is one of the signatori	es to the EA	Accreditation No.: SCS 0108
Client Motorola Solut	On Desident Labor K.K.		lo: CLA150-4016_Jan23
CALIBRATION C	CERTIFICAT	E	
Object	CLA150 - SN: 40	016	
Calibration procedure(s)	QA CAL-15.v10 Calibration Proc	edure for SAR Validation Source	s below 700 MHz
Calibration date:	January 06, 202	3	
The measurements and the uncer	tainties with confidence p	ional standards, which realize the physical un robability are given on the following pages an ry facility: environment temperature $(22 \pm 3)^{\circ}$	id are part of the certificate.
All calibrations have been conduct Calibration Equipment used (M&T)	tainties with confidence p ted in the closed laborato E critical for calibration)	robability are given on the following pages an ry facility: environment temperature $(22 \pm 3)^{*}($	nd are part of the certificate. C and humidity < 70%.
All calibrations have been conduct Calibration Equipment used (M&T) Primary Standards	tainties with confidence p ted in the closed laborato E critical for calibration)	robability are given on the following pages an ry facility: environment temperature (22 ± 3)*(nd are part of the certificate. C and humidity < 70%. Scheduled Calibration
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All calibrations have been conduct Calibration Equipment used (M&T) Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291	tainties with confidence p ted in the closed laborato E critical for calibration) ID # SN: 104778	robability are given on the following pages an ry facility: environment temperature (22 ± 3)*(<u>Cal Date (Certificate No.)</u> 04-Apr-22 (No. 217-03525/03524) 04-Apr-22 (No. 217-03524)	nd are part of the certificate. C and humidity < 70%. Scheduled Calibration Apr-23 Apr-23
All calibrations have been conduct Calibration Equipment used (M&T) Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator	tainties with confidence p ted in the closed laborato E critical for calibration) ID # SN: 104778 SN: 103244	robability are given on the following pages an ry facility: environment temperature (22 ± 3)*(nd are part of the certificate. C and humidity < 70%. Scheduled Calibration Apr-23 Apr-23 Apr-23
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst Service suisse d'étalonnage

- Service suisse d'etalorinage Servizio svizzero di taratura
- Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: CLA150-4016_Jan23

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	150 MHz ± 1 MHz	

Head TSL parameters The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	52.3	0.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	51.2 ± 6 %	0.76 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	1 W input power	3.79 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	3.77 W/kg ± 18.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Head TSL SAR measured	condition 1 W input power	2.50 W/kg

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	61.9	0.80 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	61.6 ± 6 %	0.81 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	****	

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	Condition	
SAR measured	1 W input power	3.90 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	3.86 W/kg ± 18.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR averaged over 10 cm ³ (10 g) of Body TSL SAR measured	condition 1 W input power	2.58 W/kg

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	47.9 Ω + 3.6 μΩ	
Return Loss	- 27.4 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	50.1 Ω - 2.5 jΩ	
Return Loss	- 32.1 dB	

Additional EUT Data

Manufactured by	
monundoturbu by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 06.01.2023

Test Laboratory: SPEAG, Zurich, Switzerland

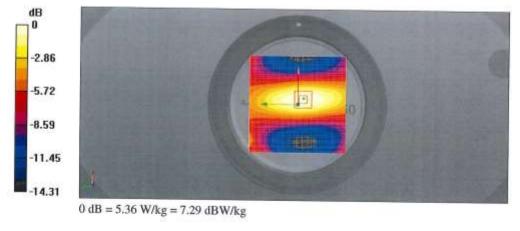
DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4016

Communication System: UID 0 - CW; Frequency: 150 MHz Medium parameters used: f = 150 MHz; $\sigma = 0.76$ S/m; $\varepsilon_e = 51.2$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

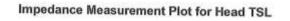
- Probe: EX3DV4 SN3877; ConvF(12.51, 12.51, 12.51) @ 150 MHz; Calibrated: 06.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 26.01.2022
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

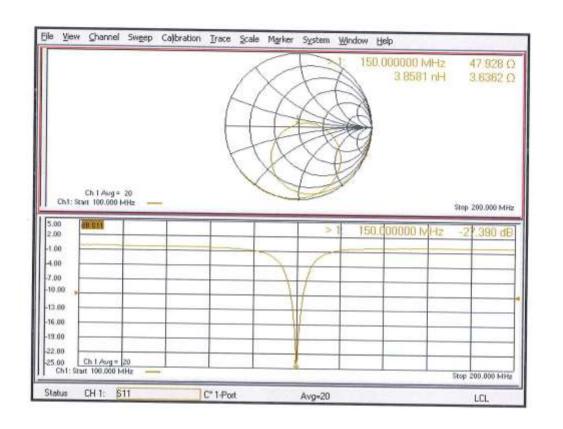
CLA Calibration for HSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan, dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 78.38 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 7.08 W/kg SAR(1 g) = 3.79 W/kg; SAR(10 g) = 2.5 W/kg Smallest distance from peaks to all points 3 dB below = 19.4 mm Ratio of SAR at M2 to SAR at M1 = 80.9% Maximum value of SAR (measured) = 5.36 W/kg



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Certificate No: CLA150-4016_Jan23

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Date: 06.01.2023

DASY5 Validation Report for Body TSL

Test Laboratory: SPEAG, Zurich, Switzerland

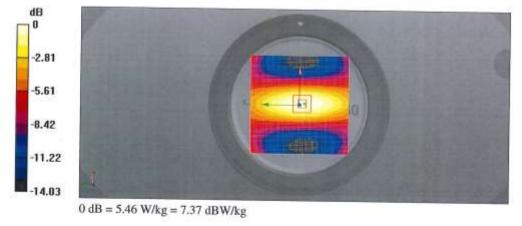
DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4016

Communication System: UID 0 - CW; Frequency: 150 MHz Medium parameters used: f = 150 MHz; $\sigma = 0.81$ S/m; $\varepsilon_e = 61.6$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(11.56, 11.56, 11.56) @ 150 MHz; Calibrated: 06.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 26.01.2022
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

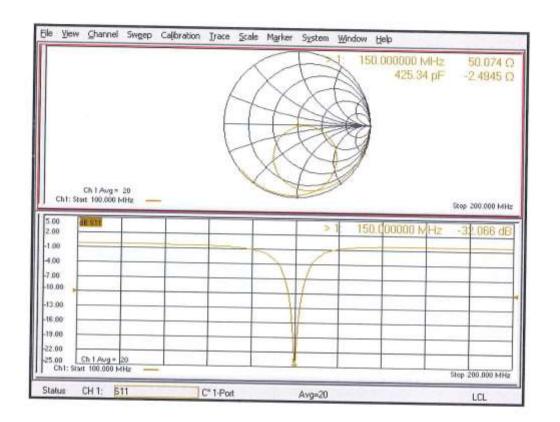
CLA Calibration for MSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan, dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 81.76 V/m; Power Drift = -0.05 dB Peak SAR (extrapolated) = 7.26 W/kg SAR(1 g) = 3.9 W/kg; SAR(10 g) = 2.58 W/kg Smallest distance from peaks to all points 3 dB below = 22.9 mm Ratio of SAR at M2 to SAR at M1 = 81.2% Maximum value of SAR (measured) = 5.46 W/kg



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Impedance Measurement Plot for Body TSL



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Dipole Data

The table below includes dipole impedance and return loss measurement data measured by Motorola Solutions' EME lab. The results meet the requirements stated in KDB 865664.

Dipole	Head		
CLA150-4016	Impedance Return Loss		
Date Measured	real Ω	imag jΩ	dB
12/15/2023	48.78	4.39	-26.17

Appendix D

System Verification Check Scans

Motorola Solutions, Inc. EME Laboratory Date/Time: 2/8/2024 10:31:18 PM

Robot#: DASY5-PG-1 | Run#: BL-SYSP-150H-240208-17 Dipole Model# CLA150 ELI5 1147 Phantom#: Tissue Temp: 20.2 (C) Serial#: 4016 150.0000 (MHz) Test Freq: Start Power: 1000 (mW) Rotation (1D): 0.072 dB 4.11mW/g (1g) Adjusted SAR (1W):

Comments:

Communication System Band: CLA150, Communication System UID: 0, Duty Cycle: 1:1, Medium parameters used: f = 150 MHz; σ = 0.782 S/m; ε_r = 50.193; ρ = 1000 kg/m³ Probe: EX3DV4 - SN7594, Calibrated: 12/7/2023, Frequency: 150 MHz, ConvF(13.97, 13.97, 13.97) @ 150 MHz Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/System Performance Check/Dipole Area Scan 2 (81x81x1):

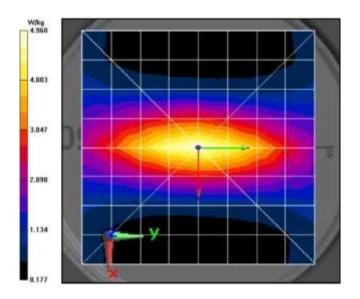
Interpolated grid: dx=1.500 mm, dy=1.500 mm Reference Value = 79.41 V/m; Power Drift = 0.04 dB Fast SAR: SAR(1 g) = 4.32 W/kg; SAR(10 g) = 3.1 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 4.97 W/kg

Below 2 GHz-Rev.3/System Performance Check/0-Degree Cube (5x5x7)/Cube 0:

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm Reference Value – 79.41 V/m; Power Drift – 0.04 dB Peak SAR (extrapolated) = 6.63 W/kg SAR(1 g) = 4.11 W/kg; SAR(10 g) = 2.72 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below = 20.2 mm Ratio of SAR at M2 to SAR at M1 = 66.1% Maximum value of SAR (measured) = 4.96 W/kg

Below 2 GHz-Rev.3/System Performance Check/Z-Axis Retraction (1x1x17): Measurement

grid: dx=20mm, dy=20mm, dz=10mm Maximum value of SAR (measured) = 4.97 W/kg



Appendix E

DUT Scans

Assessments at the Body - Table 17

Motorola Solutions, Inc. EME Laboratory Date/Time: 2/27/2024 5:15:12 PM

Model#:	AAH11JDC9JA2AN (PMUD3524B)		
Phantom#:	ELI4 1028		
Tissue Temp:	20.2 (C)		
Serial#:	902EAB8524		
Antenna:	PMAD4116A		
Test Freq:	150.8000 (MHz)		
Battery:	PMNN4600A		
Carry Acc:	PMLN8433 w/ NTN5243A		
Audio Ace:	PMMN4013A		
Start Power:	5.50 (W)		

Comments:

Communication System Band: Nile VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 150.8 MHz; $\sigma = 0.758$ S/m; $\varepsilon_r = 51.24$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7594, Calibrated: 12/7/2023, Frequency: 150.8 MHz, ConvF(13.97, 13.97, 13.97) @ 150.8 MHz Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

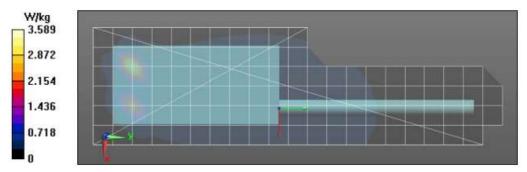
Reference Value = 25.64 V/m; Power Drift = -0.16 dB Fast SAR: SAR(1 g) = 2.19 W/kg; SAR(10 g) = 0.969 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 3.59 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (9x9x6)/Cube 0: Measurement grid: dx=3.7mm,

dy=3.7mm, dz=3mm Reference Value = 25.64 V/m; Power Drift = -0.34 dB Peak SAR (extrapolated) = 25.0 W/kg **SAR(1 g) = 2.89 W/kg; SAR(10 g) = 0.818 W/kg** (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below = 5.2 mm Ratio of SAR at M2 to SAR at M1 = 40% Maximum value of SAR (measured) = 3.99 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.10 W/kg



Assessments at the Face - Table 17

Motorola Solutions, Inc. EME Laboratory Date/Time: 2/8/2024 8:42:45 AM

Robot#: DASY5-PG-1 | Run#: AR-FACE-240208-08@ Model#: AAH11JDC9JA2AN (PMUD3524B) Phantom#: EL15 1147 Tissue Temp: 20.5 (C) Serial#: 902EAB8524 Antenna: PMAD4116A Test Freq: 150.8000 (MHz) Battery: PMNN4598A Carry Acc: (a) front Audio Acc: N/A 5.90 (W) Start Power:

Comments:

Communication System Band: Nile VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 150.8 MHz; $\sigma = 0.739$ S/m; $\varepsilon_r = 52.44$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7594, Calibrated: 12/7/2023, Frequency: 150.8 MHz, ConvF(13.97, 13.97, 13.97) @ 150.8 MHz Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

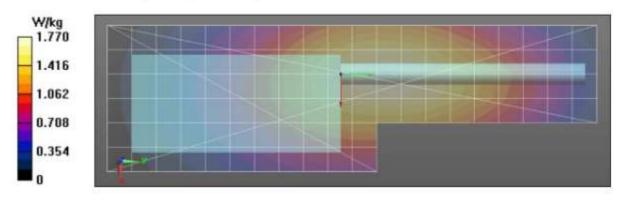
Reference Value = 48.84 V/m; Power Drift = -0.25 dB Fast SAR: SAR(1 g) = 1.66 W/kg; SAR(10 g) = 1.28 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 1.78 W/kg

Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm Reference Value = 48.84 V/m; Power Drift = -0.38 dB Peak SAR (extrapolated) = 2.01 W/kg SAR(1 g) = 1.61 W/kg; SAR(10 g) = 1.27 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 79.1% Maximum value of SAR (measured) = 1.72 W/kg

Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.70 W/kg



Additional Assessment for ISED at the Body- Table 18

Motorola Solutions, Inc. EME Laboratory Date/Time: 2/27/2024 5:15:12 PM

Model#:	AAH11JDC9JA2AN (PMUD3524B)		
Phantom#:	ELI4 1028		
Tissue Temp:	20.2 (C)		
Serial#:	902EAB8524		
Antenna:	PMAD4116A		
Test Freq:	150.8000 (MHz)		
Battery:	PMNN4600A		
Carry Acc:	PMLN8433 w/ NTN5243A		
Audio Ace:	PMMN4013A		
Start Power:	5.50 (W)		

Comments:

Communication System Band: Nile VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 150.8 MHz; σ = 0.758 S/m; ε_r = 51.24; ρ = 1000 kg/m³ Probe: EX3DV4 - SN7594, Calibrated: 12/7/2023, Frequency: 150.8 MHz, ConvF(13.97, 13.97, 13.97) @ 150.8 MHz

Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x241x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

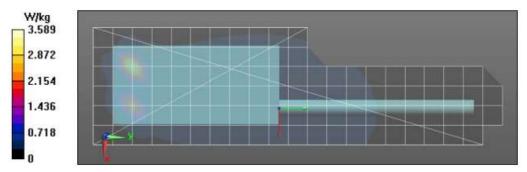
Reference Value = 25.64 V/m; Power Drift = -0.16 dB Fast SAR: SAR(1 g) = 2.19 W/kg; SAR(10 g) = 0.969 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 3.59 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (9x9x6)/Cube 0: Measurement grid: dx=3.7mm,

dy=3.7mm, dz=3mm Reference Value = 25.64 V/m; Power Drift = -0.34 dB Peak SAR (extrapolated) = 25.0 W/kg **SAR(1 g) = 2.89 W/kg; SAR(10 g) = 0.818 W/kg** (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below = 5.2 mm Ratio of SAR at M2 to SAR at M1 = 40% Maximum value of SAR (measured) = 3.99 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 4.10 W/kg



Additional Assessment for ISED at the Face – Table 18

Robot#: DASY5-PG-	1 Run#: AR-FACE-240208-13@
Model#:	AAH11JDC9JA2AN (PMUD3524B)
Phantom#:	ELI5 1147
Tissue Temp:	20.5 (C)
Serial#:	902EAB8524
Antenna:	PMAD4116A
Test Freq:	165.0000 (MHz)
Battery:	PMNN4598A
Carry Acc:	(a) front
Audio Acc:	N/A
Start Power:	5.82 (W)

Motorola Solutions, Inc. EME Laboratory Date/Time: 2/8/2024 5:02:14 PM

Comments:

Communication System Band: Nile VHF, Communication System UID: 0, Duty Cycle: 1:1,

Medium parameters used: f = 165 MHz; σ = 0.75 S/m; ε_r = 51.577; ρ = 1000 kg/m³ Probe: EX3DV4 - SN7594, Calibrated: 12/7/2023, Frequency: 165 MHz, ConvF(13.97, 13.97, 13.97) @ 165 MHz Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Face Scan/1-Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

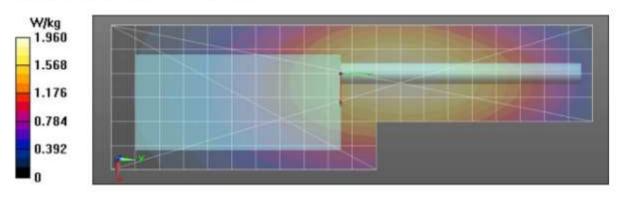
Reference Value = 51.99 V/m; Power Drift = -0.32 dB Fast SAR: SAR(1 g) = 1.81 W/kg; SAR(10 g) = 1.39 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 1.97 W/kg

Below 2 GHz-Rev.3/Face Scan/3-Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm,

dy=7.5mm, dz=5mm Reference Value = 51.99 V/m; Power Drift = -0.38 dB Peak SAR (extrapolated) = 2.24 W/kg SAR(1 g) = 1.76 W/kg; SAR(10 g) = 1.39 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below: Larger than measurement grid Ratio of SAR at M2 to SAR at M1 = 78.9% Maximum value of SAR (measured) = 1.91 W/kg

Below 2 GHz-Rev.3/Face Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 1.90 W/kg



APPENDIX F

Shortened Scan of Highest SAR configuration

Shortened Scan

Table 19

Motorola Solutions, Inc. EME Laboratory Date/Time: 2/28/2024 4:12:38 PM

Robot#: DASY5-PG-1 | Run#: BL-AB-240228-14 AAH11JDC9JA2AN (PMUD3524B) Model#: Phantom#: ELI4 1028 Tissue Temp: 20.3 (C) 902EAB8524 Serial#: PMAD4116A Antenna: Test Freq: 150.8000 (MHz) PMNN4600A Battery: PMLN8433 w/ NTN5243A Carry Acc: Audio Acc: PMMN4013A Start Power: 5.56 (W)

Comments: Shorten scan

Communication System Band: Nile VHF, Communication System UID: 0, Duty Cycle: 1:1, Medium parameters used: f = 150.8 MHz; $\sigma = 0.734$ S/m; $\varepsilon_e = 51.301$; $\rho = 1000$ kg/m³

Probe: EX3DV4 - SN7594, Calibrated: 12/7/2023, Frequency: 150.8 MHz, ConvF(13.97, 13.97, 13.97) @ 150.8 MHz Electronics: DAE4 Sn850, Calibrated: 4/14/2022

Below 2 GHz-Rev.3/Ab Scan/1-Area Scan (61x201x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 25.09 V/m; Power Drift = 0.00 dB Fast SAR: SAR(1 g) = 1.57 W/kg; SAR(10 g) = 0.730 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 2.43 W/kg

Below 2 GHz-Rev.3/Ab Scan/2-Volume 2D Scan (41x41x1): Interpolated grid: dx=0.7500 mm,

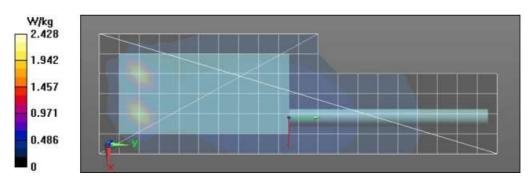
dy=0.7500 mm, dz=1.000 mm Reference Value = 25.09 V/m; Power Drift = -0.00 dB Fast SAR: SAR(1 g) = 1.65 W/kg; SAR(10 g) = 0.744 W/kg (SAR corrected for target medium) Maximum value of SAR (interpolated) = 2.39 W/kg

Below 2 GHz-Rev.3/Ab Scan/3-Zoom Scan (10x10x6)/Cube 0: Measurement grid: dx=3.7mm, dy=3.7mm, dz=3mm

y=3.7 mm, $u_2=5$ mm Reference Value = 66.44 V/m; Power Drift = -0.27 dB Peak SAR (extrapolated) = 21.6 W/kg SAR(1 g) = 2.62 W/kg; SAR(10 g) = 0.782 W/kg (SAR corrected for target medium) Smallest distance from peaks to all points 3 dB below = 5.3 mm Ratio of SAR at M2 to SAR at M1 = 39.5% Maximum value of SAR (measured) = 3.75 W/kg

Below 2 GHz-Rev.3/Ab Scan/4-Z-Axis Scan (1x1x17): Measurement grid: dx=20mm, dy=20mm, dz=10mm

Maximum value of SAR (measured) = 2.42 W/kg



Shortened scan reflects highest SAR producing configuration and is compared to the full scan.

Scan Description	Referenced Table	Test Time (min.)	SAR 1g (W/kg)
Shorten scan (zoom)	19	25	1.50
Full scan (area & zoom)	17	45	1.70

17.0 Highest SAR Test Position per body location

17.1 Body

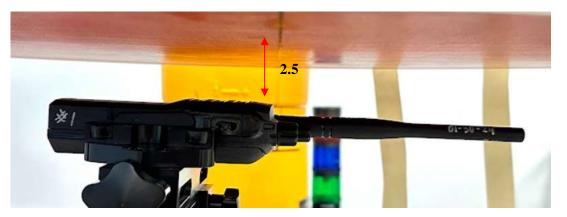
DUT with antenna PMAD4116A with offered battery PMNN4600A and body worn kit PMLN8433 w/ NTN5243A belt clip against the phantom with an audio accessory PMMN4013A attached.



	Separation Distances (mm)		
Antenna kit #	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	0	65	108

17.2 Face

Back of DUT with antenna, PMAD4116A with offered battery PMNN4598A separated 2.5cm from the phantom without an audio accessory attached.



	Separation Distances (mm)		
Antenna kit #	@ bottom surface of the DUT	@ antenna's base	@ antenna's tip
PMAD4116A	27	33	38

APPENDIX H

DUT, Body worn and Audio accessories Photos

Please refer to original report for all the accessories