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# Appendix C for KSCR220900169909

# **Calibration Certificate**

Object	Apply	No	Model	SN	Calibration Date
		1	CLA150	4025	2021/04/26
		2	D450V3	1103	2021/04/21
	$\boxtimes$	3	D750V3	1188	2022/03/29
	$\boxtimes$	4	D835V2	4d114	2022/03/31
		5	D900V2	1d079	2022/06/07
D: 1	$\boxtimes$	6	D1800V2	2d170	2022/03/31
Dipole	$\boxtimes$	7	D1900V2	5d136	2022/06/07
		8	D2000V2	1041	2022/06/06
		9	D2300V2	1096	2022/03/31
	$\boxtimes$	10	D2450V2	817	2022/04/01
	$\boxtimes$	11	D2600V2	1158	2022/03/31
	$\boxtimes$	12	D5GHzV2	1095	2022/06/01
DAE	$\boxtimes$	13	DAE4	1245	2022/05/30
Probe		14	EX3DV4	7346	2022/03/30



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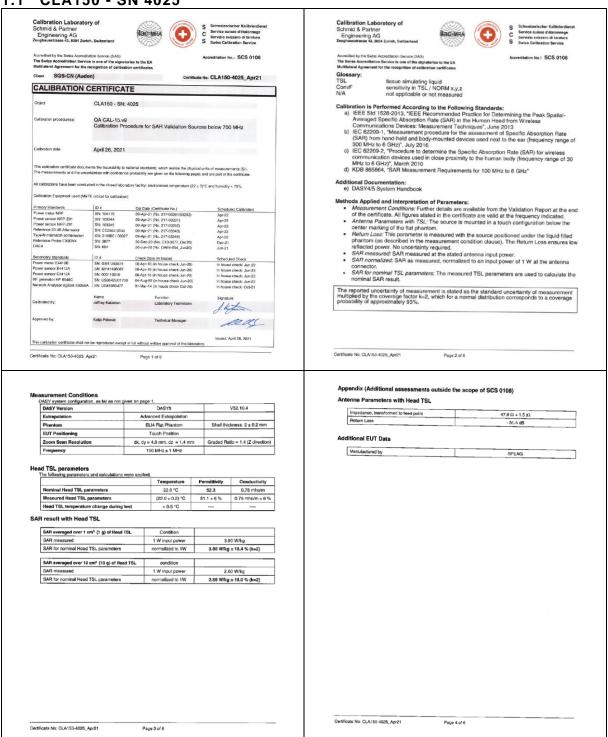
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### 1 Dipole

#### 1.1 CLA150 - SN 4025





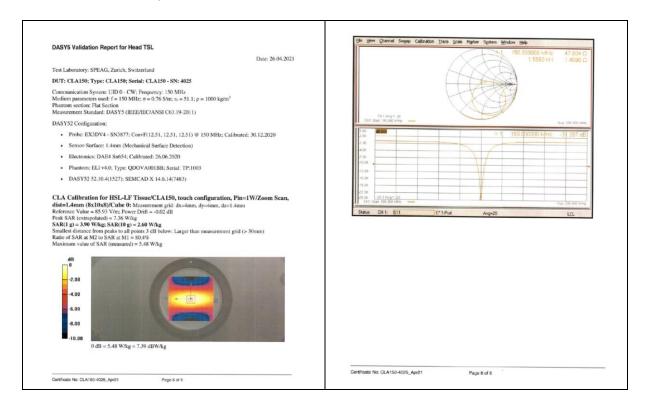
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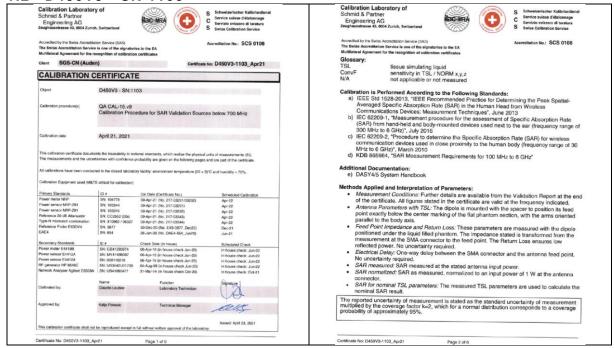
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#### 1.2 D450V3 - SN 1103





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#### Measurement Conditions

ASY system configuration, as far as not	given on page 1.	
DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Pharitom	Shell thickness: 2 ± 0.2 mm
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	450 MHz + 1 MHz	

#### ad TSL parameters

applied.		
Temperature	Permittivity	Conductivity
22.0 °C	43.5	0.87 mho/m
(22.0 ± 0.2) °C	43.1±6%	0.87 mho/m ± 6 %
	22.0 °C	Temperature Permittivity 22.0 °C 43.5

SAR measured SAR for nominal Head TSL parameters

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.14 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	4.55 W/kg ± 18.1 % (k=2)

#### Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	57.1 Ω - 2.8 jΩ
Return Loss	- 23,0 dB

#### General Antenna Parameters and Design

Electrical Delay (one direction)	
	1.346 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made at standard sensitifd coords cable. The center conductor of the feeding line is desepose and see instandant sensitive contracts and the dipole. The antenno is therefore selective called for DC signals. On some of the dipole, small order as addited for the dipole arm in order to improve matching when needed secondary to the positions are registed of it in "Measurement Conditions" paragraph. The SAR data are not affected by this charge. The overall dipole length is sell to exceed the Conditions of the dipole arms, because they might bend or the soldward connections near the footpolet may be demanded.

#### Additional EUT Data



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#### DASY5 Validation Report for Head TSL

Date: 21.04.2021

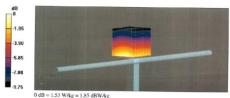
#### DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

Communication System: UID 0 - CW; Frequency: 450 MHz Medium parameters used: f=450 MHz;  $\sigma=0.87$  S/m;  $\epsilon_r=43.1$ ;  $\rho=1000$  kg/m³ Phanton section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

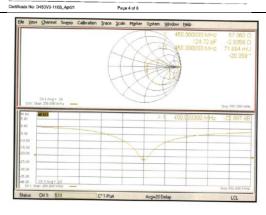
#### DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(10.64, 10.64, 10.64) @ 450 MHz; Calibrated: 30.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn6S4; Calibrated: 26.06.2020
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.18 V/m, Pwop Drift = 0.08 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 1.14 W/kg; SAR(10 g) = 0.675 W/kg
Smalles distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at W2 to SAR at M1 = 64.9%
Maximum value of SAR (measured) = 1.53 W/kg



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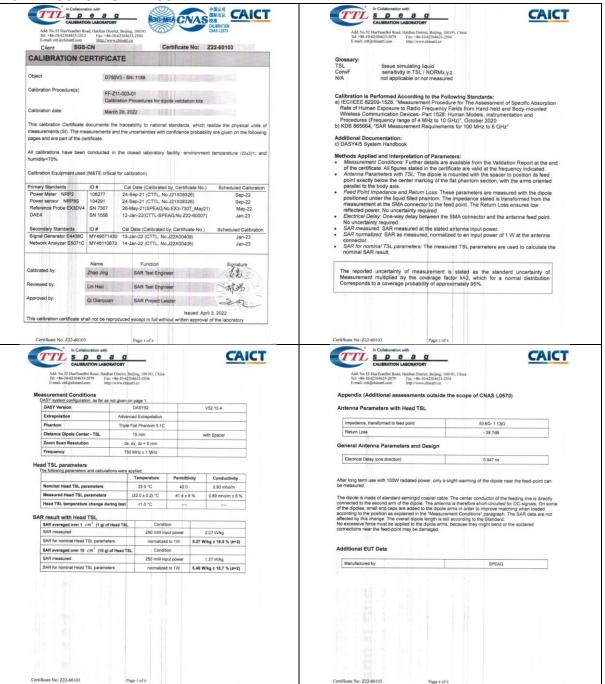
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#### 1.3 D750V3 - SN 1188





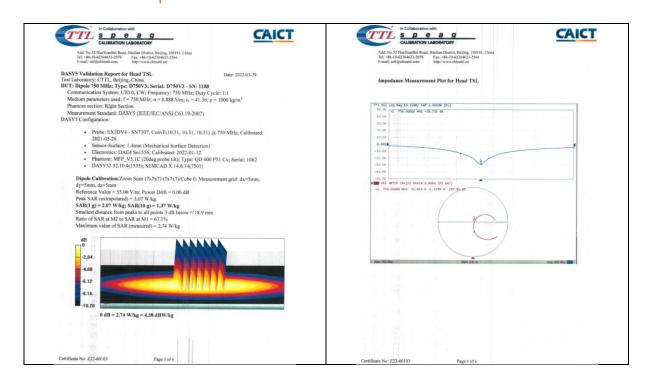
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#### 1.4 D835V2 - SN 4d114



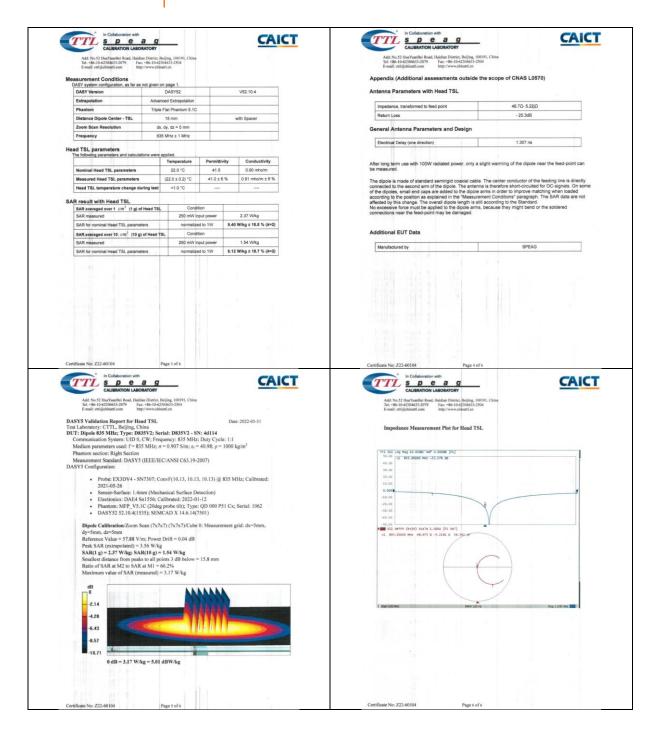


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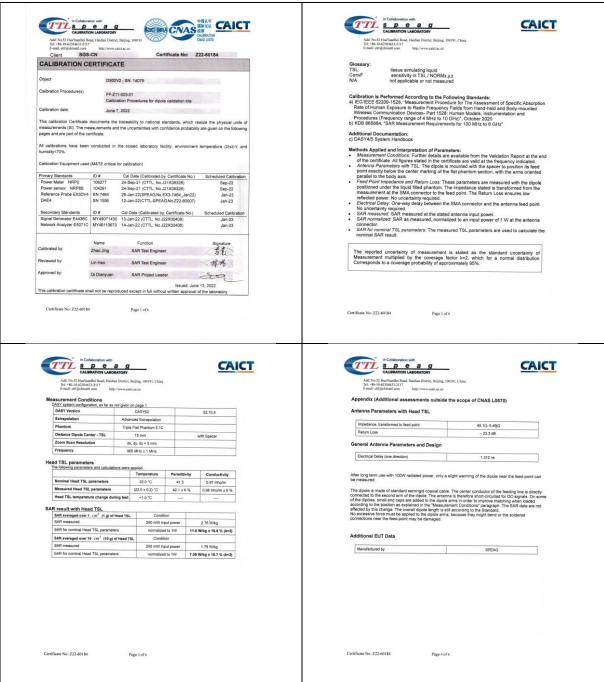
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#### 1.5 D900V2 - SN 1d079



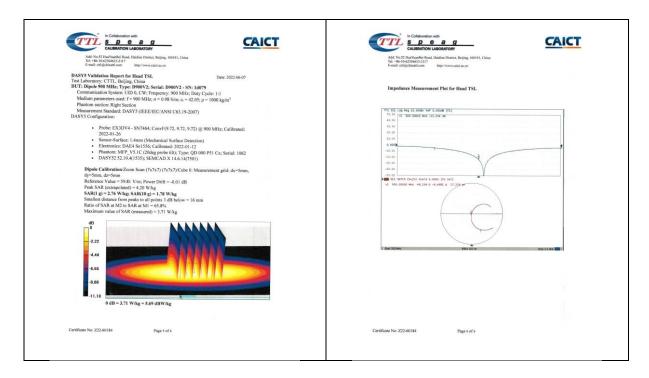


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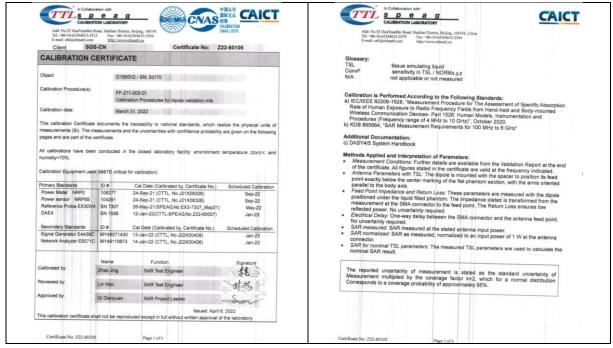
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#### 1.6 D1800V2 - SN 2d170



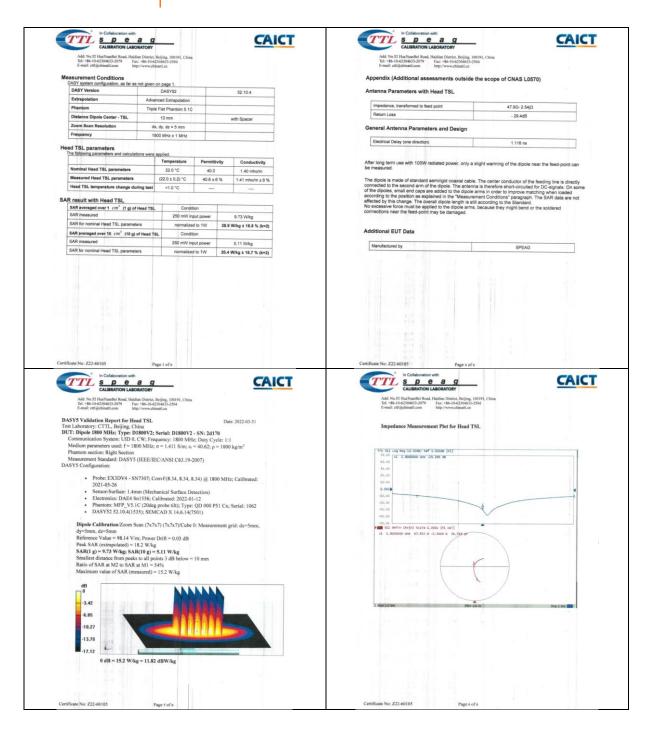


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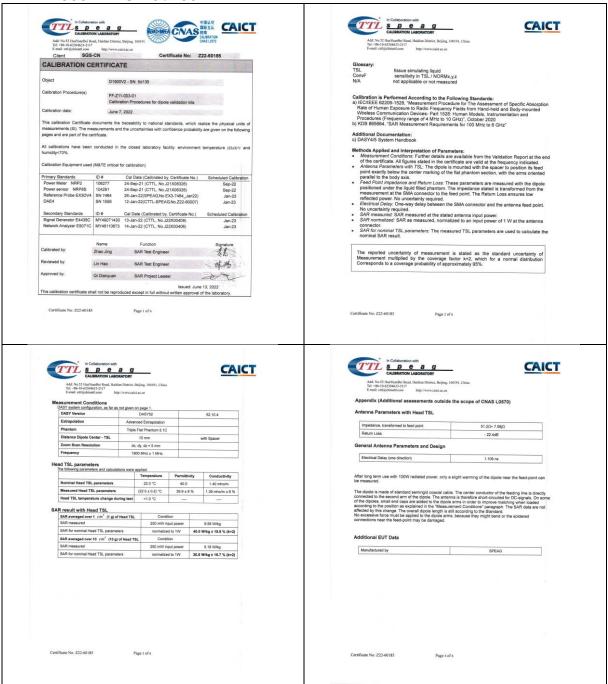
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#### 1.7 D1900V2 - SN 5d136



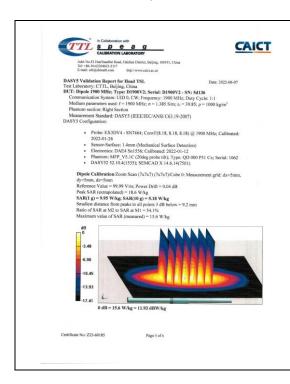


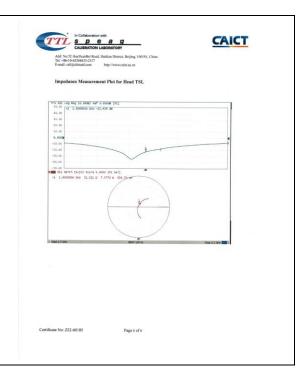
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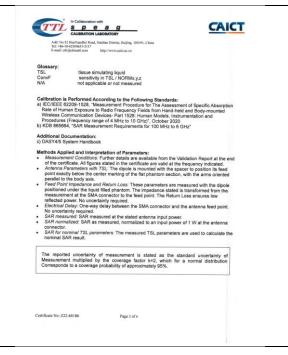
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#### 1.8 D2000V2 - SN 1041





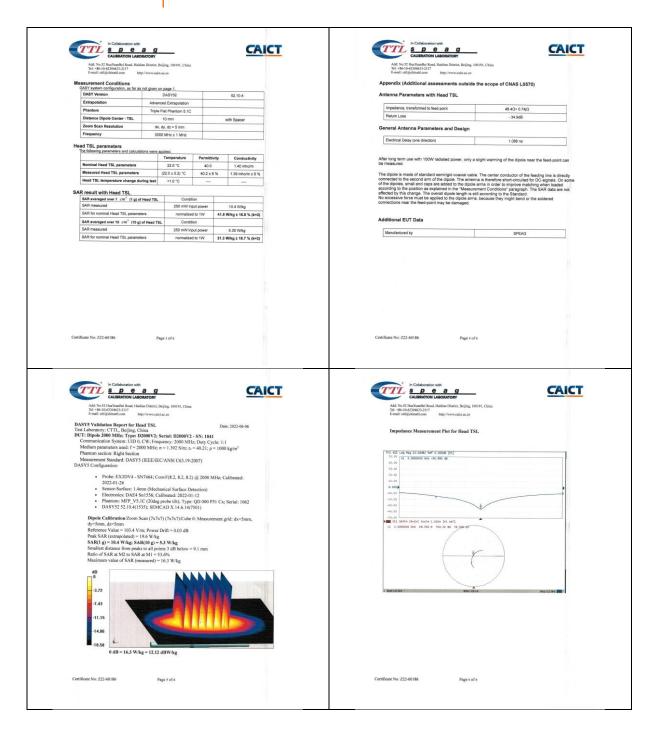


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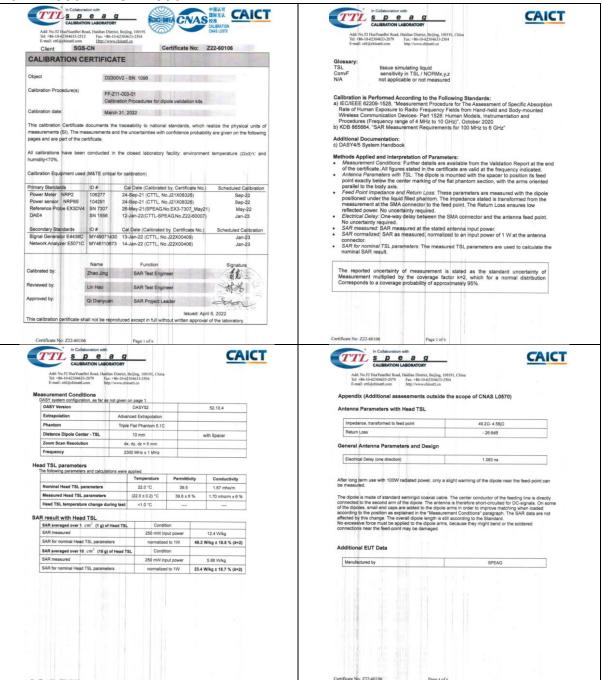
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### 1.9 D2300V2 - SN 1096



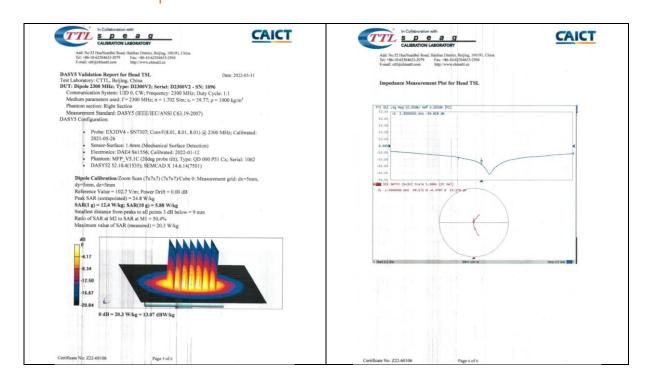


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#### 1.10 D2450V2 - SN 817





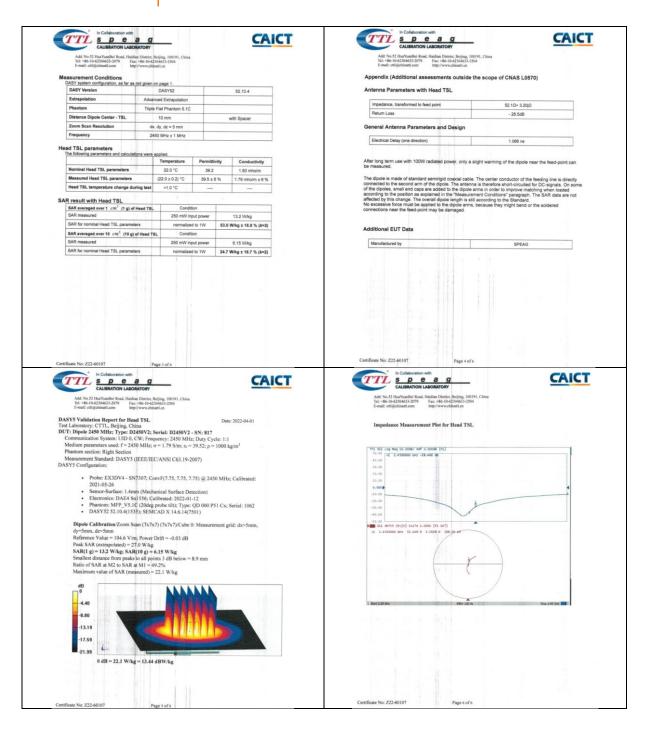
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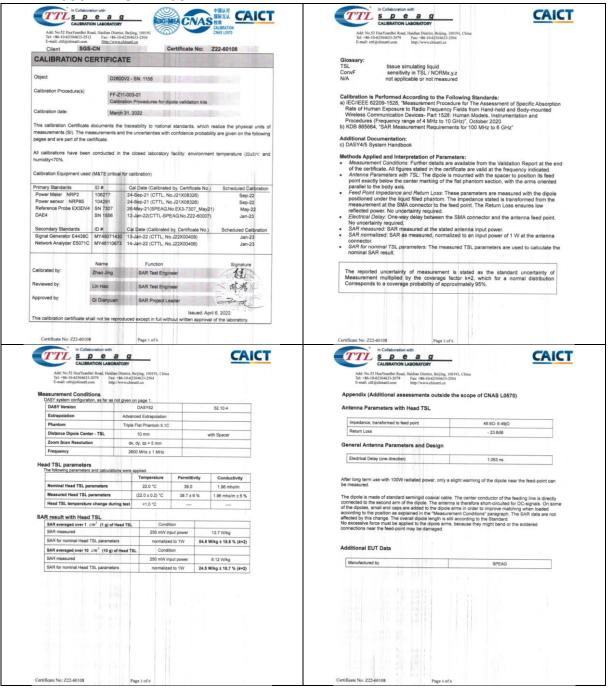
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### 1.11 D2600V2 - SN 1158





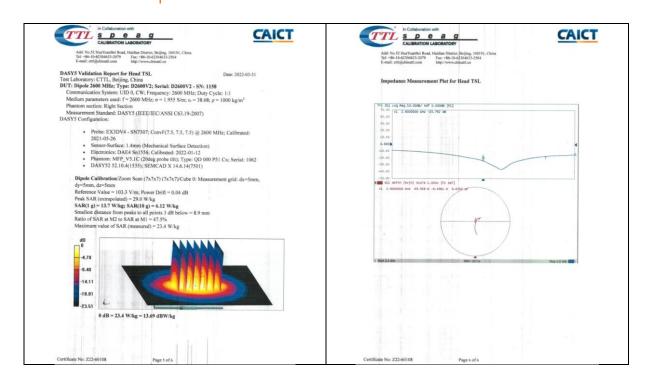
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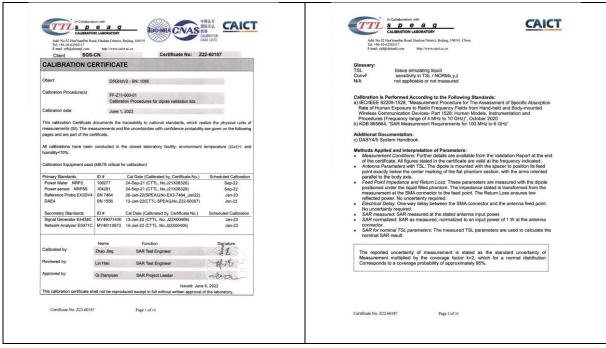
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#### 1.12 D5GHzV2 - SN 1095





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CAICT

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ASY system configuration, as far as	not given on page 1,	
DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz	

Head TSL parameters at 5200MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mhaim
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.62 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	-	-

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	7.79 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.6 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.1 W/kg ± 24.2 % (k=2)

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Head TSL parameters at 5300MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.73 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	near .	_

SAR result with Head TSL at 5300MHz

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.1 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.6 W/kg ± 24.2 % (k=2)

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4,94 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		-

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.5 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 24.2 % (k=2

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	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	5.05 mho/m ± 6 9
Head TSL temperature change during test	<1.0 °C	_	-

AR result with Head TSL at 5600MHz

SAR averaged over 1 cm² (1 g) of Head TSL

SAR measured	100 mW input power	8.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.8 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.9 W/kg ± 24.2 % (k=2)

Head TSL parameters at 5800MHz
The following parameters and calculations were ap

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.25 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	-	

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.71 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.7 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.5 W/kg ± 24.2 % (#=2)

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dix (Additional assessments outside the scope of CNAS L0570)

ers with Head TSL at 5200MHz

Impedance, transformed to feed point	46.1Ω- 5.03jΩ	
	00.040	

tenna Parameters with Head TSL at 5300MHz

Impedance, transformed to feed point	47.8Ω- 2.42jΩ
Return Loss	- 29.5dB

Antenna Parameters with Head TSL at 5500MHz

Impedance, transformed to feed point	50.3Ω- 4.26μΩ	
Return Loss	- 27.4dB	

Antenna Parameters with Head TSL at 5600MHz

Impedance, transformed to feed point	54.5Ω- 4.80jΩ	
Return Loss	- 24.0dB	

Impedance, transformed to feed point	51.5Ω- 5.61jΩ	
Return Loss	- 24.9dB	

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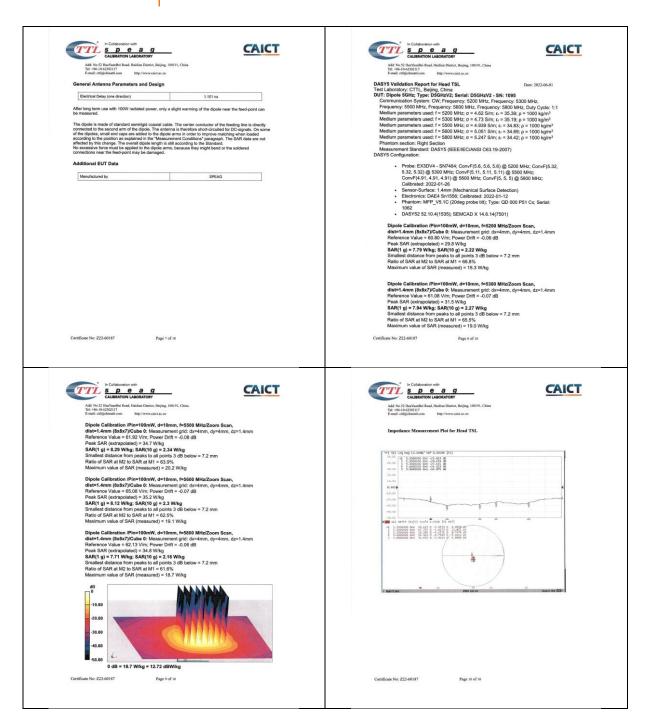


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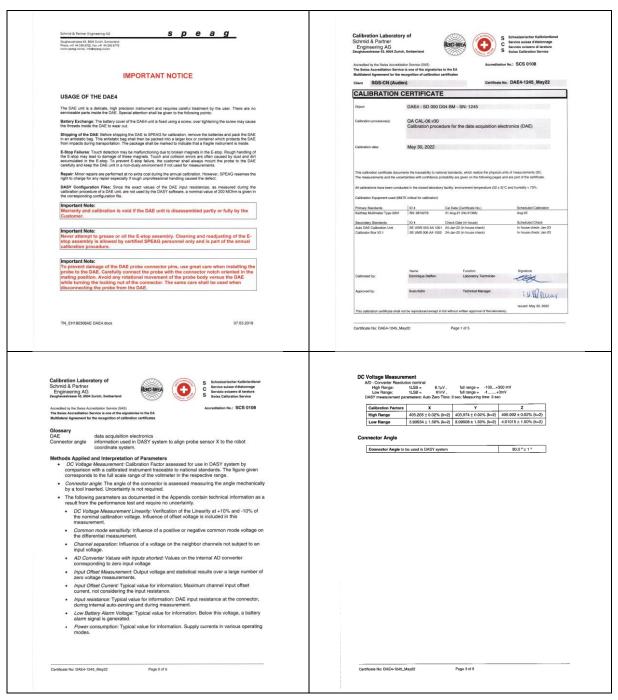
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#### 2 DAE4 - SN 1245





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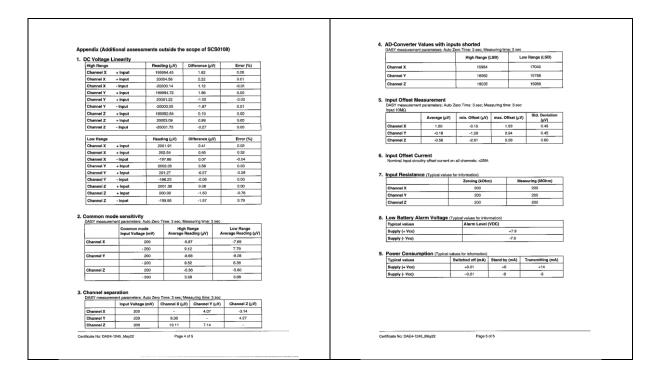
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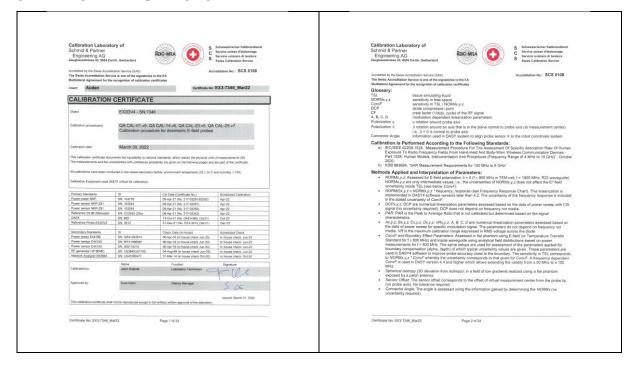
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#### 3 EX3DV4 - SN 7346





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DASY/E	ASY - Pa	arameters	s of Pr	obe: E	X3DV	4 - SN:	7346	DASY/EASY - Parameters of Probe: EX3D	V4 - SN:7346
	ration Param	eters Sensor X		Sensor Y	V	Sensor Z	Une Oraz	Sensor Model Parameters	T4 T5 T6
Norm (µV/(V) DCP (mV) <sup>B</sup>	/m)²y <sup>a</sup>	0.46 101.4	士	0.47 106.0		0.61 106.9	± 10.1 %	Color   C2   a	T4 T5 T6 V-1 V-1 1.42 0.12 1.01 1.62 0.05 1.01
Calibration	Results for N	Modulation Re	sponse					Z 9.7 69.74 33.37 4.96 0.60 4.94	0.61 0.00 1.00
UID C		stem Name		dB iµV	C D		Max Max dev. Unc <sup>4</sup> (k=2) ±3.0 % ±4.7 %	Other Probe Parameters  Sensor Arrangement	Trinon to
0 C		7	0.00	0.00 1 0.00 1 0.00 1	1.00 0.00 1.00 1.00	135.3		Connector Angle (*)	Triangular -166.1
AAA	uise Waveform (20)	3	3.33 4.03	68.90 1: 70.70 1:	11.66 10.0 12.35	60.0	135% 196%	Mechanical Surface Detection Mode Optical Surface Detection Mode	enabled disabled
AAA	uise Waveform (20)	0Hz, 20%)	3.00	70.65 1: 81.32 1:	14.72	9 80.0 80.0	±24% ±96%	Probe Overall Length Probe Body Diameter	337 mm 10 mm
10354 P	ulse Waveform (20)	0Hz. 40%)	7,41	78.85 1; 87.62 1	12.51 3.96 15.51	95.0 95.0	±2.7% ±9.6%	Tip Length	9 mm
10355- Pi	ulse Waveform (20)	0Hz, 60%) 2	2.27 20.00	72.13 9 91.58 1	0.01 9.52 2.23 16.29	95.0 2 120.0 120.0	±1.7% ±9.6%	Tip Diameter  Probe Tip to Sensor X Calibration Point	2.5 mm 1 mm
10387- Q	PSK Waveform, 11	MHz 2	7.94 1.47 1.56	91.58 11 159.51 11 64.88 11 68.24 14 61.88 1 66.27 1 67.33 11 64.75 1	16.87 13.82 1.00	0 150.0 150.0	±42% ±9.6%	Probe Tip to Sensor Y Calibration Point Probe Tip to Sensor Z Calibration Point	1 mm
10388- Q	PSK Waveform, 10	MHz 3	2 0.45 C 1.96 C 2.06	61.88 1 66.27 1 67.33 1	11,05 14,65 0.00	150.0 0 150.0	±1.1% ±9.6%	Recommended Measurement Distance from Surface	1.4 mm
	4-QAM Waveform,	100 kHz 3			13.18 18.25 3.0	150.0	±1.0% ±9.6%	Note: Measurement dislance from surface can be increased to 3-4 mm for an Area S	Scan job.
	4-QAM Waveform,	40 MHz 3	1.70	69.51 11 70.83 11 64.72 11 66.39 11 66.82 11 65.72 1 65.35 11 65.54 11 66.16 11	15.99 15.25 0.00	150.0 150.0 0 150.0	±2.0% ±9.6%		
25500	ALAN CCDF, 64-QA	M, 40MHz 3	3.38 2.70 4.71	66.82 1: 65.72 1: 65.35 1	15.56 14.74 15.27 0.00	150.0 150.0	136% 196%		
0.7355	ails on UID param	natara saa Annan	4.70 3.83	65.54 1 66.16 1	5.41	150.0 150.0			
The report multiplied I	ed uncertainty by the coverag	of measurem e factor k=2, v	ent is state which for a	ad as the s normal di	standard u distribution	correspon	of measurement ds to a coverag		
		**							
* The uncertaintie * Numerical linea * Uncertainty is d	es of Norm X,Y,Z do no rization parameter, un letermined using the m	not affect the E <sup>2</sup> -field incertainty not require law, deviation from it	incertainty insid d. near response	de TSL (see Pa	ages 5 and 6).	on and is expres	sed for the square of th		
Seld value.					***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Certificate No:	EX3-7346_Mar22		Page 3	of 24				Certificate No: EX3-7346_Mar22 Page 4 of 24	
EX30V4- SN:7:							March 30, 2022	DASY/EASY - Parameters of Probe: EX3D	
	<sup>346</sup> EASY - Pa	arameters	s of Pr	obe: E	:X3DV	4 - SN:		DASY/EASY - Parameters of Probe: EX3D	V4 - SN:7346
DASY/E	EASY - Pa	etermined in	Head Tiss	sue Simul	lating Me	dia	7346	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating A	V4 - SN:7346
DASY/E	Parameter De	etermined in Conductivity (S/m) <sup>F</sup>	Head Tiss	sue Simul	lating Mer	dia  Alpha (r	7346	DASY/EASY - Parameters of Probe: EX3D	Media  Depth Media  Media  Media  Depth Media  Media
DASY/E Calibration  f (MHz) c 750 835	Parameter De Relative Permittivity f 41.9	etermined in Conductivity (S/m)* 0.89 0.90	Head Tiss ConvF X 10.56 10.12	ConvF Y 10.56 10.12	ConvF Z 10.58 10.12	Alpha (r 0.55 0 0.42 0	7346  pph   Unc   (k=2)   .85   ± 12.0 %   .96   ± 12.0 %	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E	Parameter De	etermined in Conductivity (S/m) <sup>F</sup> 0.89	Head Tiss ConvF X 10.56 10.12	ConvF Y 10.56 10.12 10.10	ConvF Z 10.58 10.12 10.10	Alpha 0 (r 0.55 0 0.42 0 0.53 0	7346  Unc (%=2) .85 ± 12.0 % .96 ± 12.0 % .80 ± 12.0 %	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E  Calibration  f (MHz) c  750  835  900  1450  1750	Parameter De Relative Permittivity 1 41.9 41.5 40.5 40.1	etermined in Conductivity (S/m)* 0.89 0.90 0.97 1.20 1.37	Head Tiss ConvF X 10.56 10.12 10.10 9.26 8.83	ConvF Y 10.58 10.12 10.10 9.26 8.83	ConvF Z 10.58 10.12 10.10 9.26 8.83	Alpha <sup>6</sup> (r 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0	7346  Unc (N=2) (1.85 ± 12.0 % (1.80 ± 12.0 % (1.80 ± 12.0 % (1.80 ± 12.0 % (1.86 ± 12.0 % (1.86 ± 12.0 % (1.86 ± 12.0 % (1.86 ± 12.0 % (1.86 ± 12.0 %	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E  Calibration  f (MHz) c  760  835  900  1450  1750  1900  2000	Parameter Di Relative Permittivity / 41.9 41.5 40.5 40.1 40.0 40.0	etermined in Conductivity (S/m)* 0.89 0.90 0.90 1.20 1.37 1.40	Head Tiss ConvF X 10.56 10.12 10.10 9.26 8.83 8.48 8.35	ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35	ConvF Z 10.56 10.12 10.10 9.26 8.83 8.48 8.35	Alpha © (e 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0 0.35 0	7346  Une (N=2) (N=2) (N=3) (N=4) (N	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  Table 15 Periodic Control Contro	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E Calibration    (MHz)   750     835     900     1450     1750     1900	Parameter Di Relative Permittivity / 41.9 41.5 40.5 40.1 40.0 40.0 39.5	etermined in Conductivity (S/m) <sup>2</sup> 0.89 0.90 0.97 1.20 1.37	Head Tiss ConvF X 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86	ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86	ConvF Z 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86	Alpha © (e 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0 0.35 0 0.34 0	7346    Une (8-2)   1.85   1.20 %   1.20 %   1.80   1.20 %   1.80   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %   1.86   1.20 %	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    f (MHz) c   750   835   900   1450   1750   1900   2000   2000   2450   2600	Parameter Di Relative Permittivity 7 41.9 41.5 40.1 40.0 40.0 39.5 39.2 39.0	etermined in Conductivity (Srm)* 0.89 0.90 0.97 1.20 1.37 1.40 1.67 1.80	Head Tiss ConvF X 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33	ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33	ConvF Z 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33	Alpha 6 (e (e ) 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0 0.35 0 0.34 0 0.39 0 0.41 0 0.44 0 0.44 0 0.44 0 0.44 0 0.44 0 0.44	7346    Unic   U	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha® Copth® (linc) (k=2) 0 20 2.50 ±18.65
Calibration  f (MHz) c  835  900  1450  1900  2000  2300  2450  2600  3300	Parameter Di Relative Permittivity 41:9 41:5 40:5 40:1 40:0 39:6 39:2 39:0 38:2	etermined in Conductivity (S/m) <sup>F</sup> 0.99 0.99 0.97 1.20 1.37 1.40 1.40 1.67 1.80 1.99 2.71	Head Tiss ConvF X 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15	ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15	ConvF Z 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15	Alpha 6 (r (r 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0 0.35 0 0.34 0 0.35 0 0.41 0 0.44 0 0.44 0	7346    Disc   Disc   Disc	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E Calibration  f (MHz) c 750 835 900 1450 1900 2000 2000 2300 2450 2600 3300 3500 3700	Parameter Di Relative Feenings 419 419 419 415 41,5 40,1 40,0 40,0 39,5 39,2 39,9 38,2 37,7	etermined in Conductivity (Shm)* (Shm	Head Tiss ConvF X 10.96 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14 6.85	Sue Simul ConvFY 10.50 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14	ConvFZ 10.56 18.12 10.10 9.26 8.35 7.86 7.63 7.31 7.15 7.14 6.85	Alpha® (r 0.55 (r 0.55 0) 0.55 (r 0.42 0) 0.53 0 0.50 0 0.50 0 0.34 0 0.34 0 0.35 0 0.34 0 0.39 0 0.41 0 0.44 0 0.30 1	7346    Grant   Grant	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Blastic   Parametery   Canada   Can	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    F (MHz) c   750     835     835     900     1450     1760     2000     2300     2450     2600     3300     3500	Parameter Di Retaine Permittiery 419 415 415 401 40.0 40.0 40.0 30.5 30.2 30.2 30.0 30.2 30.2 30.0 30.2 30.0 30.2 30.0 30.2 30.0 30.2 30.0 30.2 30.0 30.0	etermined in Conductivity (S/m)* 0.89 0.90 0.90 1.20 1.37 1.40 1.40 1.67 1.80 1.95 2.71	Head Tiss Convf X 10.96 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14 6.85 6.71	Sue Simul ConvF Y 10.50 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14 6.85 6.71	ConvF Z 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14 6.85 6.71	Alpha (c)	7346    Unit   U	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    F(MHz)   Calibration     F(MHz)	Parameter Dt Relative Permitting / 115	etermined in Conductanity (Shan) 7.099 (Shan) 7.120 (Shan	Head Tiss ConvF X 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.30	Sue Simul ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.30	ConvF Z 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58	Alpha® (c)	7346    Unc   Unc	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    F (MHz) © 750	Parameter Dt Relative Permittirity 419 41.5 40.5 40.1 40.0 40.0 40.0 30.5 30.2 39.0 30.2 39.0 30.2 37.7 37.5 37.7 37.5 37.1 30.9 30.7	etermined in Conductivity (Ship) 1.00 (Ship) 1.00 (Ship) 1.20 (Shi	Head Tiss  ConvF X 10,56 10,12 10,10 10,10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11	ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.70 6.58 6.30 6.24 6.11	ConvF Z 10.56 10.12 10.10 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.70 6.58 6.30 6.24 6.11	Alpha® (c)	7346    Unc   Unc	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    (West)   (West)	Parameter Dr. Relative Pennistry 1415 4115 4115 4015 4015 4015 4015 4015	Conductivity (Ship) (Sh	Head Tiss  ConvF X  10.56  10.12  10.10  9.26  8.83  8.48  8.35  7.86  7.63  7.15  7.14  6.85  6.71  6.58  6.30  6.24  6.11  6.08	ConvF Y 10.56 10.12 10.10 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.31	ConvF Z 10.56 10.12 10.50 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11	Alpha 6 (e) 0.55 0 0.42 0 0.53 0 0.50 0 0.34 0 0.34 0 0.35 0 0.44 0 0.30 1 0.44 0 0.40 1 0.40 1 0.40 1 0.40 1	7346    Green   Green	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    F (WH4z) c   760     835     835     800     1450     1750     1900     2300     2450     2300     2450     3300     3500     3700     3900     4100     4200     4400     4800     4800     4800     4920     5200	Parameter Dr. Relative Personnel of the Control of	etermined in Conductivity (8hm)** (9hm)** 0.99 0.99 1.20 1.37 1.40 1.40 1.60 1.60 1.60 1.80 3.32 3.32 3.33 3.84 4.25 4.466	Head Tiss ConvF X 10.56 10.12 10.10 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11 6.08 5.84 5.88	Sue Simul ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.63 7.33 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11 6.08 6.88	ConvF Z 10.56 10.15 6 10.12 10.12 10.12 10.10 9.26 8.83 8.48 8.35 7.63 7.33 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11 6.08 5.84	Alpha® (c)	7346    2016     2016	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
Calibration    f(Mex)   Calibration     f(Mex)   Calibration     750   835   800     1450   1450     1750   1900     2000   20	Parameter D.  Pa	etermined in Conductivity (Son) 2 (Son) 2 (Son) 2 (Son) 2 (Son) 2 (Son) 3 (Son) 4 (Son) 4 (Son) 4 (Son) 4 (Son) 5 (Son	Head Tiss  ConvF X 10.96 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 6.85 6.71 6.85 6.30 6.24 6.11 6.08 5.84 6.25 5.12	Sue Simul ConvF Y 10.56 10.12 10.10 9.26 8.83 8.35 7.86 7.86 7.86 7.14 6.85 6.71 6.85 6.30 6.24 6.11 6.08 5.84 6.26 6.30 6.24 6.51 6.11 6.08	ConvF Z 10:56 10:12 10:10 10:12 10:10 9:26 8:83 8:48 8:35 7:86 7:63 7:33 7:15 6:71 6:85 6:71 6:58 6:30 6:24 6:11 6:08 5:84 6:25 5:12	Alipha (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	7346    10   10   10   10   10   10   10   1	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E Calibration	Parameter D.  Realitive  Permittively  4119  4119  4115  4115  40.1  40.0  30.5  30.2  30.0  30.0  30.7  30.	etermined in Conductivity (Sem) 9 0.99 0.99 0.99 0.99 1.27 1.20 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.4	Head Tiss ConvF X 10.50 10.12 10.10 9.26 8.83 8.46 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.71 6.58 6.11 6.08 5.84 5.85 5.12 4.85 5.12	Sue Simul ConvF Y 10.56 10.12 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.33 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11 6.08 6.84 6.11 6.08 6.84 6.11 6.12 6.08 6.83	ConvF Z 10.50 10.10 10.11 10.10 9.26 8.83 8.48 8.35 7.86 7.63 7.15 7.14 6.85 6.71 6.58 6.30 6.24 6.11 6.08 5.84 6.25 5.12	Alipha (c)	7346  pps V Use   Dec	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E  F_Main_1  F_Main_1	Parameter Di Fisialize   Permitting   419   419   415   40.1   40.1   40.1   40.2   30.5   30.2   30.2   30.2   30.3   30.2   30.3   30.3   30.4   30.5   30.5   30.5   30.6   30.6	etermined in Conductivity (Marin 1997) 1.00 (Mar	Head Tiss 10.56 10.12 10.10 10	Sue Simul 10.56 10.72 10.56 10.72 10.75 10	10.50 Med 10.12	Alpha® (c)	7346    100	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E  F_Main_1  F_Main_1	Parameter Di Fisialize   Permitting   419   419   415   40.1   40.1   40.1   40.2   30.5   30.2   30.2   30.2   30.3   30.2   30.3   30.3   30.4   30.5   30.5   30.5   30.6   30.6	etermined in Conductivity (Marin 1997) 1.00 (Mar	Head Tiss 10.56 10.12 10.10 10	Sue Simul 10.56 10.72 10.56 10.72 10.75 10	10.50 Med 10.12	Alpha® (c)	7346    100	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %
DASY/E  F_Main_1  F_Main_1	Parameter Di Fisialize   Permitting   419   419   415   40.1   40.1   40.1   40.2   30.5   30.2   30.2   30.2   30.3   30.2   30.3   30.3   30.4   30.5   30.5   30.5   30.6   30.6	etermined in Conductivity (Marin 1997) 1.00 (Mar	Head Tiss 10.56 10.12 10.10 10	Sue Simul 10.56 10.72 10.56 10.72 10.75 10	10.50 Med 10.12	Alpha® (c)	7346  pps V Use   Dec	DASY/EASY - Parameters of Probe: EX3D  Calibration Parameter Determined in Head Tissue Simulating Is  [Bitsleft   Parametery   Compt	V4 - SN:7346  Media  L Alpha <sup>©</sup> Copth <sup>©</sup> (kx2)  0 20 2.50 ±18.6 %



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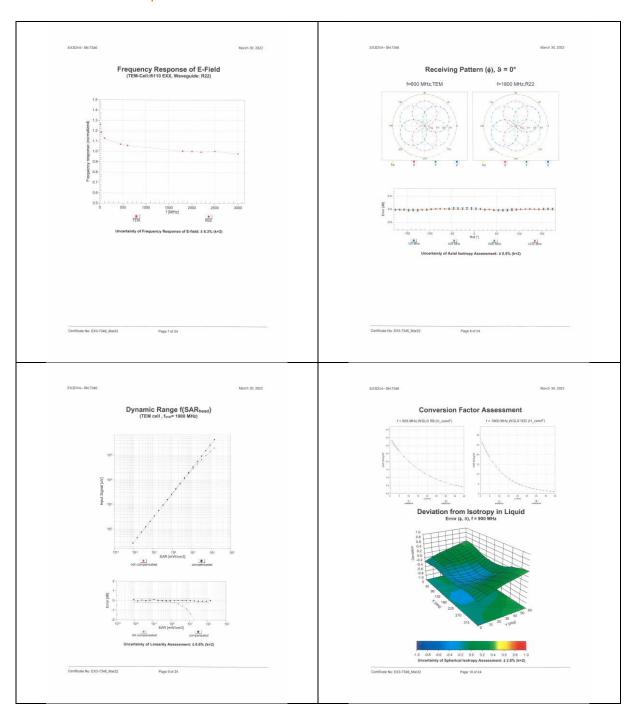
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EX30V4- SN:7346  Appendix: Modulation Calibration Parameters	March 30, 2022	10100 CAE LTE-FDD (SC-FDMA, 100% RB, 20 MHz, CIPSK)	LTE-FDD 5.67 ± 9.6 %
Appendix: Modulation Calibration Parameters UID Rev Communication System Name	Group PAR Unc <sup>6</sup> (dB) (k=2) CW 0.00 ± 4.7 %	10101 CAE LTE-FD0 (SC-FDMA, 169% RB, 20 MHz, 16-QAM) 10102 CAE LTE-FD0 (SC-FDMA, 169% RB, 20 MHz, 64-QAM)	LTE-FDD 5.87 1.98 % LTE-FDD 6.42 1.96 % LTE-FDD 6.42 1.96 % LTE-FDD 9.28 1.96 % LTE-FDD 9.28 1.96 % LTE-FDD 9.29 1.96 % LTE-FDD 9.39 1.96 % LTE-FDD 5.86 9.96 % 1.96 % LTE-FDD 5.86 9.96 % LTE-FDD 5.75 9.96 % LTE-FDD 6.44 1.96 %
8 CW  1010 CAA Waterbook (Sparen 100m; these 10011 CAB UNTFERFOR (VCDBA)  10011 CAB USET FOR (VCDBA)  10011 CAB USET FOR (VCDBA)  10012 CAB USET STORY (VCDBA)  10013 CAB USET STORY (VCDBA)  10013 CAB USET STORY (VCDBA)	7-4 10.00 10.00	10103 CAG LTE-TDD (SC-FDMA, 100% RB, 25 MHz, OPSK) 10104 CAG LTE-TDD (SC-FDMA, 100% RB, 25 MHz, 16-GMM) 10106 CAG LTE-TDD (SC-FDMA, 100% RB, 26 MHz, 16-GMM)	LTE-TOD 9.29 ±9.6% LTE-TOD 9.97 ±9.6%
10012 CAB IEEE 802.116 WiFi 2.4 GHz (DSSS, 1 Mbps) 10013 CAB IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN 187 ±9.6 % WLAN 9.46 ±9.6 %	10108 CAG LTE-FDD (SC-FDMA, 100% RR, 10 MHz, GPSK) 10108 CAG LTE-FDD (SC-FDMA, 100% RR, 10 MHz, GPSK) 10109 CAG LTE-FDD (SC-FDMA, 100% RR, 10 MHz, GPSK)	LTE-FDD 5.80 ±96%
10021 DAC GSM-FDD (TDMA, GMSK) 10023 DAC GPRS-FDD (TDMA, GMSK, TN 0)	GSM 9.39 ±9.6 % GSM 9.57 ±9.6 % GSM 0.56 ±9.6 % GSM 12.62 ±9.6 %	10110 CAG LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK) 10111 CAG LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD 6.43 ± 9.6 % LTE-FDD 5.75 ± 9.6 % LTE-FDD 6.44 ± 9.6 %
10024 DAC GPRE-FOD (TDMA, 6MSK, TN 0-1) 10025 DAC EDGE-FDD (TDMA, 8PSK, TN 0) 10006 DAC EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM 6.56 8.9.6 % GSM 12.62 ± 9.6 % GSM 9.55 ± 9.6 %	10112 CAG LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) 10113 CAG LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 84-QAM)	LTE-FDD 6.62 ±9.6%
10027 DAC GPRS-F00 (TDMA, GMSK, TN 0-1-2) 10028 DAC GPRS-F00 (TDMA, GMSK, TN 0-1-2-3)	GSM 4.80 ±9.6 % GSM 3.55 ±9.6 %	10114 CAD IEEE 802,11n (HT Greenfield, 13.5 Mbps, 8PSK) 10115 CAD IEEE 802,11n (HT Greenfield, 81 Mbps, 16-QAM) 10116 CAD IEEE 802,11n (HT Greenfield, 315 Mbps, 66-QAM)	WLAN 8.10 ±9.6 % WLAN 8.46 ±9.6 % WLAN 8.15 ±9.6 %
10029 DAC EDGE-FDD (TDMA, 8PSK, TN 0-1-2) 10030 CAA IEEE 802.15.1 Bluetooth (GFSK, DH1)	GSM 4.80 ±9.6 % GSM 3.55 ±9.6 % GSM 7.78 ±9.6 % Bluetooth 5.30 ±9.6 %	10117 CAD IEEE 802,11n PHT Mixed, 13.5 Mbps, BPSK) 10118 CAD IEEE 802,11n PHT Mixed, 81 Mbps, 16-QAM)	WLAN 8.07 ± 9.6 % WLAN 8.59 ± 9.6 %
10031 CAA IEEE 802.15.1 Blastooth (GPSK, DHS) 10032 CAA IEEE 802.15.1 Blastooth (GPSK, DHS) 10033 CAA IEEE 802.15.1 Blastooth (PV+DQPSK, DH1)	Bisetooth 1.87 ± 9.6 % Bisetooth 1.16 ± 9.6 % Bisetooth 7.74 ± 9.6 %	10119 CAD IEEE 802 11n (HT Mired: 33 Mbps, 64-QAM) 10140 CAE LTE-FDO (SC-FDMA, 1007) RB, 15 MM, 16-QAM)	WLAN   8 10   49 6 %   WLAN   8 46   49 6 %   WLAN   8 46   59 6 %   WLAN   8 15   2 9 6 %   WLAN   8 59   2 8 6 %   WLAN   8 59   2 8 6 %   WLAN   8 13   2 9 6 %   WLAN   8 13   2 9 6 %   UTE-FDO   6 49   2 8 6 %   ETE-FDO   5 73   2 9 6 %   UTE-FDO   5 73   2 9 6 %   UTE-FDO   6 33   2 9 6 %   UTE-FDO   6 35   2 9 6 %   UTE-FDO   0 35   2 9 6 %   UTE-FDO
10034 CAA IEEE 802.15.1 Bluetooth (PM-DQPSK, DH3) 10035 CAA IEEE 802.15.1 Bluetooth (PM-DQPSK, DH5)	Bluetooth 4.53 ± 9.6 %	10142 CAE LTE-FDD (SC-FDMA 1001) RB, 3 MHz, GPSH) 10143 CAE LTE-FDD (SC-FDMA 1001) RB, 3 MHz, 16-QAM)	LTE-FDD 5.73 ± 9.6 % LTE-FDD 6.35 ± 9.6 %
10036 CAA IEEE 802.15.1 Bluetooth (8-DPSK, DH1) 10037 CAA IEEE 802.15.1 Bluetooth (8-DPSK, DH3) 10038 CAA IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Buetooth 8.01 ± 9.6 % Buetooth 4.77 ± 9.6 % Buetooth 4.10 ± 9.6 %	10144 CAE LTE-FD0 (SC-FDMA, 100N RB, 3 MHz, 64-QAM) 10145 CAF LTE-FD0 (SC-FDMA, 100N RB, 1.4 MHz, DPBK)	LTE-FOD 573 195% LTE-FOD 635 195% LTE-FOD 665 195% LTE-FOD 641 195% LTE-FOD 641 195% LTE-FOD 641 195% LTE-FOD 642 195% LTE-FOD 642 195% LTE-FOD 642 195% LTE-FOD 642 195% LTE-FOD 642 195%
10039 CAB CDMA2000 (1xRTT, RC1) 10042 CAB IS-54 / IS-136 FDD (TDMA*FDM, PIH-DQPSK, Halfrate)	CDMA2000 4.57 ± 9.6 %	10147 CAF LITE-FDD (SC-FDMA, 100N RB, 1.4 MHz, 164-QMN) 10149 CAE LITE-FDD (SC-FDMA, 501N RB, 1.4 MHz, 164-QMN)	LTE-FDD 6.72 ±9.6 % LTE-FDD 6.42 ±9.6 % LTE-FDD 6.60 ±9.6 %
10046 CAA IS-91/EIATIA-553 FOO (FDMA, FM) 10048 CAA DECT (TID, TDMA/FDM, GFSK, Full Stot, 24)	Boston	10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD 6.60 ±9.6 % LTE-TDD 9.28 ±9.6 % LTE-TDD 9.92 ±9.6 %
10056 CAA UMTS-TDD (TD-SCDMA, 1.28 Mcgs6) 10058 DAC EDGE-FDD (TDMA, 8PSK, TN 0.1-2-3)	TD-SCDMA 11.01 ± 9.6 % GSM 0.52 ± 9.6 %	10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, GPSK)	LTE-FDD 10.05 ± 9.6 %
10059 CAB IEEE 802.11b WFI 2.4 GHz (DSSS, 2 Mbps) 10060 CAB IEEE 802.11b WFI 2.4 GHz (DSSS, 5.5 Mbps)	GSM 0.52 ± 9.6 % WLAN 2.12 ± 9.6 % WLAN 2.83 ± 9.6 %	10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD 6.43 ±9.6 % LTE-FDD 5.79 ±9.6 %
10062 CAD IEEE 802.11ah WFI 5 GHz (OFDM. 6 NEps) 10083 CAD IEEE 802.11ah WFI 5 GHz (OFDM. 6 NEps)	WILAN 2.83 ±8.6 % WILAN 3.50 ±8.6 % WILAN 3.50 ±8.6 % WILAN 8.88 ±8.6 % WILAN 8.83 ±9.6 % WILAN 9.50 ±8.6 %	10157 CAG LTE-FDD (SC-FDMA, 59% RB, 5 MHz, 16-QMM) 10158 CAG LTE-FDD (SC-FDMA, 59% RB, 10 MHz, 56-QMM) 10159 CAG LTE-FDD (SC-FDMA, 59% RB 10 MHz, 56-QMM)	LTE-FDD 6.49 ±9.6 % LTE-FDD 6.62 ±9.6 % LTE-FDD 6.56 ±9.6 %
10064 GAD IEEE 802.11ah WFI 5 GHz (OFDM, 12 Mbps) 10065 GAD IEEE 802.11ah WFI 5 GHz (OFDM, 18 Mbps)		10160 CAE LTE-FDD (SC-FDM, 50% RB, 15 MHz, DPSK) 10181 CAE LTE-FDD (SC-FDM, 50% RB, 15 MHz, 16-QAM)	LTE-FDD 5.82 ±9.6 % LTE-FDD 6.43 ±9.6 %
1900  CAL   SEE RED 1.1 Reproduct (PSR. CHT)	WLAN 10.12 ± 9.6 %	10162 CAE LTE-FOD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) 10166 CAF LTE-FOD (SC-FDMA, 50% RB, 14 MHz, QPSM) 10567 CAE LTE-FOD (SC-FDMA, 50% RB, 14 MHz, QPSM)	THEFOO   GOZ   965%,   THEFOO   GOZ   965%,   THEFOO   GOZ   965%,   THEFOO   THEF
10069 CAD IEEE 802 11ah WIFI 5 GHz (OFDM, 54 Mbps) 10071 CAB IEEE 802 11g WIFI 2.4 GHz (DSSS/DFDM, 9 Mbps)	WLAN 10.24 ± 9.6 % WLAN 10.50 ± 9.6 % WLAN 9.83 ± 9.6 %	10168 CAF LITE-FDO (SC-FDMA, 1 RB, 20 MHz, GP-GM) 10169 CAE LITE-FDO (SC-FDMA, 1 RB, 20 MHz, GP-SK)	LTE-FDD 5.68 19.6 % LTE-FDD 5.60 19.6 % LTE-FDD 6.21 19.6 % LTE-FDD 6.79 19.6 % LTE-FDD 6.79 19.6 % LTE-FDD 6.73 19.6 % LTE-FDD 6.52 19.6 % LTE-FDD 6.49 29.6 % LTE-FDD 9.49 19.6 %
19072 CAB IEEE 802.11g WFF 2.4 GHz (DSSIGFOM, 12 Mbps) 10073 CAB IEEE 802.11g WFF 2.4 GHz (DSSIGFOM, 18 Mbps) 10074 CAB IEEE 802.11g WFF 2.4 GHz (DSSIGFOM, 18 Mbps)	VILAN 10.56 ± 0.0 %. VILAN 0.85 ± 0.0 %. VILAN 0.82 ± 0.0 %. VILAN 0.92 ± 0.0 %. VILAN 10.30 ± 0.0 %. VILAN 10.30 ± 0.0 %. VILAN 10.30 ± 0.0 %.	10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD 6.52 ±9.6 % LTE-FDD 6.49 ±9.6 % LTE-TDD 9.21 ±9.6 %
10075 CAB IEEE 802.11g Wift 2.4 GHz (DSSSIGFDM, 36 Mbps) 10076 CAB IEEE 802.11g Wift 2.4 GHz (DSSSIGFDM, 48 Mbps)	VULAN 5934 906%, VULAN 5936 906%, VULAN	10173 GAG LTE-TDD (SC-FDMA, 1 R8, 20 MHz, GPSK) 10173 GAG LTE-TDD (SC-FDMA, 1 R8, 20 MHz, 16-QAM) 10174 GAG LTE-TDD (SC-FDMA, 1 R8, 20 MHz, 64-QAM)	LTE-TDD 9.21 ± 9.6 % LTE-TDD 9.48 ± 9.6 % LTE-TDD 10.25 ± 9.6 %
10077 CAB IEEE 802 11g WIF 2.4 GHz (DSSS/OFDM, 54 Mbps) 10081 CAB CDM/2000 (18RTT, RCS) 10082 CAB IS-54 (15.14 E-10.7 (TDM/SEAN, BUS CORE); E-10.410	VV,AM 1097 9 0 5 % VV,AM 1094 9 0 5 % VV,AM 11094 9 0 5 % VV,AM 11000 9 6 6 % AMPS 0000 1100 9 6 6 % AMPS 000 9 6 6 % VVCDMA 5 8 6 6 6 0 0 5 % VVCDMA 3 6 8 9 0 5 % VCCMA 3 6 8 9 0 5 % VCCMA 3 6 8 9 0 5 %	10176 CAG LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) 10176 CAG LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDO 5.72 ±9.6 % LTE-FDO 6.52 ±9.6 % LTE-FDO 5.73 ±9.6 % LTE-FDO 6.52 ±9.6 % LTE-FDO 6.50 ±9.8 %
10090 DAC GPRS-FDD (TDMA GMSK, TN 0-4) 10097 CAB UMTS-FDD (HSDPA)	GSM 6.56 ± 9.6 % WCDMA 3.88 ± 9.6 %	10177 CAG LTE-FDD (SC-FOMA, 1 RB, 5 MHz, GPSM) 10178 CAG LTE-FDD (SC-FOMA, 1 RB, 5 MHz, 16-QAM) 10179 CAG LTE-FDD (SC-FOMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD 5.73 ±9.6 % LTE-FDD 6.52 ±9.6 % LTE-FDD 6.50 ±9.6 %
10098 CAB UMTS-F00 (HSUPA, Subset 2) 10099 DAC EDGE-F00 (TOMA, 8PSK, TN 0-4)	W/CDMA 3.98 2.9.6 % GSM 9.55 2.9.6 %	10180 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD 6.50 ± 9.6 % LTE-FDD 5.73 ± 9.6 %
		DATE	
	March 30, 2022		March 30, 2022 LTE-TDD   924   895%
	March 30, 2022		March 50, 2022  LTE-TOD 92X 985%  LTE-TOD 92X 985%  LTE-TOD 92X 985%
	March 30, 2022		March 50, 2022  \[ \lambda \text{TETDD}  \text{99.8}  \text{98.9}  \text{17ETDD}  \text{99.8}  \text{17ETDD}  \text{99.8}  \text{17ETDD}  \text{99.8}  \text{17ETDD}  \text{99.8}   \text{99.8}  \text{17ETDD}  \text{99.8}   \text{99.8}  \text{17ETDD}  \text{99.8}   \text{99.8}  \text{17ETDD}  \text{99.8}    \text{99.8}    \text{99.8}      \text{99.8}  \qq            \q
	March 30, 7002  LTE-FOOD 6.50 18.50 18.50 1. LTE-FOOD 5.50 18.50 1. LTE-FOOD 5.50 18.50 1. LTE-FOOD 5.50 18.50 1. LTE-FOOD 6.50 18		March 50, 2022  LTE TOD 92x 888 %
	March 30, 2022  LTE FOO		March 70, 7002  116 TDD 0.24 188 %  145 TDD 9.23 9.86 %  145 TDD 10.81 9.86 %
	March 30, 2022  LTE FOO		March 30, 2022  LTB TDD 9.24 18.8 %, 17.15 TDD 9.25 18.8 %, 17.15 TDD 9.24 TDD
	March 30, 2022  LTE FOO		March 30, 2022  1711-1700 0-3x 1 0-8 1 1 0-8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	March 30, 2022  LTE FOO		March 30, 2022  LTE-TOD 0.2.0 # 88.5%  LTE-TOD 10.2.0 # 88.5%  LTE-TOD 10.16 # 88.6%  LTE-TOD 10.16 # 88.6%  LTE-TOD 2.2 # 88.5%  LTE-TOD 3.20 # 88.6%  LTE-TOD 3.20 # 88.6%  LTE-TOD 10.20 # 88.6%  LTE-TOD 10.20 # 88.6%  LTE-TOD 10.20 # 88.6%  WCDMA 4.87 # 88.6%  WCDMA 4.87 # 88.6%  PHS 11.81 # 88.6%  PHS 11.81 # 88.6%  PHS 11.81 # 88.6%  COMUSSION 3.48 # 88.6%
	March 30, 2002  LTE-FOD 652 9865, LTE-FOD 650 1865, LTE-FOD 650 18		March 30, 2022  LTE-TDD
	March 30, 2002  LTE-FOD 652 9865, LTE-FOD 650 1865, LTE-FOD 650 18		March 30, 2022   UTE-TDD
	March 30, 2002  LTE-FOD 652 9865, LTE-FOD 650 1865, LTE-FOD 650 18		March St. 2022     LTE-TDD   9.24   98.5%     LTE-TDD   9.24   98.5%     LTE-TDD   9.27   98.5%     LTE-TDD   10.28
	March 30, 2022		March 50, 2022  LTE-TDD 92A 986 % LTE-TDD 92B 986 % LTE-TDD 10 8 9 987 % LTE-TDD 10 8 9 987 % LTE-TDD 10 10 8 9 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	March 30, 2022		March 30, 2022  1/15/100
	March 30, 2022		March NJ, 2022  LTE-TED 9-34 8 8-8-19,  LTE-TED 10-18 9-80 8 8-8-19,  LTE-TED 10-18 9-80 8-8-19,  LTE-TED 10-18 9-80 8-8-19,  LTE-TED 10-18 9-80 8-8-19,  LTE-TED 10-22 8-9-19,  LTE-TED 10-22 8-9-19,  LTE-TED 10-23 8-9-19,  LTE-TE
	March 30, 2022		March 30, 2022  LTE-TID
	March 30, 2022		March 30, 2022  LTE-TDD 92.2   98.55, 11.11.11.11.11.11.11.11.11.11.11.11.11.
	March 30, 2022    URLADO   632   188 5,		March 30, 2022
	March 30, 2022		March 50, 2022   LTE-TED   92-8   188-75   LTE-TED   92-8   188-75   LTE-TED   92-8   188-75   LTE-TED   92-9   188-75   LTE-TED   92-9   188-75   LTE-TED   92-9   188-75   LTE-TED   162-8   188-75   LTE-TED   162-8   188-75   LTE-TED   162-8   188-75   LTE-TED   162-8   188-75   LTE-TED   162-9   188-75   LTE-TED   162-9   188-75   LTE-TED   162-9   162-9   LTE-TED   162-9   162-9   LTE-TED   162-9   L
	March 30, 2022		March 30, 2022  LTETED 92 82 82 88 93 94 94 94 94 94 94 94 94 94 94 94 94 94
	March 30, 2022		March NO, 2022    TTE TED
	March 30, 2022		March 76, 2022  LTETED 9.84  LTETED 9.85  LTETED 10.81  LTETED 10.81  LTETED 10.81  LTETED 10.81  LTETED 10.82  LT
	March 30, 2022		March 30, 2022  LTE-TOD   5,0 at   45.0 %   LTE-TOD   10,16   45.0 %   LTE-TOD   10,20   45.0 %   LTE-
	March 10, 7002  LTE FOOD 6.52 18-55. LTE FOOD 6.52 18-55. LTE FOOD 6.50		March 30, 2022  LTE-TID   9,9   18   9,7   LTE-TID   10,16   18,9   LTE-TID   10,2   18,9   LTE-TID   11,2   18,5   LTE-TID   11,2   18,5   LTE-TID   11,2   18,5   LTE-TID   11,2   18,5   LTE-TID   10,2   18,9   LTE-TID   10,2   LTE-TID



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EX3DV4- SN:7346	64-QAM, 40MHz	Generic	8.54 ± 9.6 %	10489 AAF LTE-TOO (SC-FDM	IA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TOD	8.31 ± 9.6 %
10415 AAA IEEE 802.11s 10416 AAA IEEE 802.11s 10417 AAC IEEE 802.11s	WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc) WiFi 2.4 GHz (ERP-DFDM, 6 Mbps, 99pc dc) In WiFi 5 GHz (DFDM, 6 Mbps, 99pc dc)	WLAN WLAN WLAN	8.54 2.8.6 % 8.23 2.8.6 % 8.23 2.8.6 % 8.14 2.6.6 % 8.19 2.8.6 % 8.32 2.8.6 % 8.47 2.8.6 % 8.40 2.8.6 %	10490 AAF LTE-TOO (SC-FDN 10491 AAE LTE-TOO (SC-FDN 10492 AAE LTE-TOO (SC-FDN	IA, 50% RB, 16 MHz, 64-QAM, UL, Sub) IA, 50% RB, 15 MHz, QPSK, UL, Sub) IA, 50% RB, 15 MHz, 16-QAM, UL, Sub)	LTE-TOD	8.31 ±9.6 % 8.54 ±9.6 % 7.74 ±9.6 % 8.41 ±9.6 %
10418 AAA IEEE 802.11 10419 AAA IEEE 802.11	WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long) WIFI 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN WLAN	8.14 ± 9.6 % 8.19 ± 9.6 %	10493 AAE LTE-TOD (SC-FON 10494 AAF LTE-TOD (SC-FON	IA, 50% RB, 15 MHz, 64-QAM, UL Sub) IA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDO LTE-TDO	8.55 ± 9.6 % 7.74 ± 9.6 %
10423 AAC IEEE 802.11s 10424 AAC IEEE 802.11s	(HT Greenfeld, 72 Mgps, BPSK) (HT Greenfeld, 43.3 Mgps, 16-QAM)	WLAN WLAN WLAN	8.32 ± 9.6 % 8.47 ± 9.6 % 8.40 ± 9.6 %	10495 AAF LTE-TOD (SC-FDN 10496 AAF LTE-TOD (SC-FDN 10497 AAB LTE-TOD (SC-FDN	IA, 50% RB, 20 MHz, 64-QAM, UL Sub) IA, 50% RB, 20 MHz, 64-QAM, UL Sub) IA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDO LTE-TDO	8.55 ±9.6 % 7.74 ±9.6 % 8.37 ±9.6 % 8.54 ±9.6 % 7.67 ±9.6 %
10425 AAC IEEE 802.110 10426 AAC IEEE 802.110 10427 AAC IEEE 802.110	(HT Greenfield, 15 Mbps, 8PSK) (HT Greenfield, 90 Mbps, 16-QAM) (HT Greenfield, 150 Mbps, 9A-CAM)	WLAN WLAN WLAN	8.41 ±9.5% 8.45 ±9.6% 8.41 ±9.6%	10498 AAB LTE-TOD (SC-FON 10499 AAB LTE-TOD (SC-FON 10500 AAC LTE-TOD (SC-FON	IA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) IA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) IA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDO	8.40 ± 9.6 % 8.68 ± 9.6 % 7.67 ± 9.6 %
10430 AAD LTE-FDD (OI 10431 AAD LTE-FDD (OI	DMA, 5 MHz, E-TM 3.1) DMA, 10 MHz, E-TM 3.1)	LTE-FDD LTE-FDD	828 ±9.6% 838 ±9.6%	10501 AAC LTE-TDD (SC-FDA 10502 AAC LTE-TDD (SC-FDA	IA, 100% RB, 3 MHz, 16-QAM, UL Sub) IA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD WIAN WIAN	7.67 ±9.6 % 8.44 ±9.6 % 8.52 ±9.6 %
10432 AAC LTE-FDD (OI 10433 AAC LTE-FDD (OI 10434 AAA W-CDMA (BS	DMA, 15 MHz, E-TM 3.1) DMA, 20 MHz, E-TM 3.1) Test Model 1, 64 DPCH)	LTE-FDD LTE-FDD WCDMA	8.34	10503 AAF LTE-TDD (SC-FDN 10504 AAF LTE-TDD (SC-FDN 10505 AAF LTE-TDD (SC-FDN	IA. 100% RB. 5 MHz, QPSK, UL Sub) IA. 100% RB. 5 MHz, 16 QAM, UL Sub) IA. 100% RB. 5 MHz, 64 QAM, UL Sub)	LTE-TDO LTE-TDO	8.44 ±9.6% 6.52 ±9.6% 6.31 ±9.6% 6.31 ±9.6% 6.34 ±9.6% 7.74 ±9.6% 6.36 ±9.6% 6.35 ±9.6% 6.49 ±9.6% 6.40 ±
10435 AAF LTE-TDD (SC 10447 AAD LTE-FDD (OF	-FDMA, 1 RB, 20 MHz, QPSK, UL Sub) DMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD LTE-FOD	834	10506 AAF LTE-TDD (SC-FON 10507 AAF LTE-TDD (SC-FON	IA. 100% RB, 10 MHz, QPSK, UL Sub)  IA. 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD LTE-TDD	7.74 ±9.6% 8.36 ±9.6%
10449 AAC LTE-FDD (OI 10450 AAC LTE-FDD (OI	DMA, 15 MHz. E-TM 3.1, Cliping 44%) DMA, 20 MHz. E-TM 3.1, Clipping 44%)	LTE-FDD LTE-FDD	7.51 ±9.6% 7.48 ±9.6%	10509 AAE LTE-TOD (SC-FON 10510 AAE LTE-TOD (SC-FON	IA, 100% RB, 15 MHz, QPSK, UL, S(6) IA, 100% RB, 15 MHz, 16-QAM, UL, Sub)	LTE-TOO LTE-TOO	7.99 ± 9.6 % 8.49 ± 9.6 %
10451 AAA W-CDMA (BI 10453 AAD Validation (S 10456 AAC IEEE 802.11	Test Model 1, 84 DPCH, Clipping 44%) µane, 10ms, 1ms) c WiFi (160MHz, 64-QAM, 99pc dc)	Test WLAN	7.59 ±9.6 % 10.00 ±9.6 % 8.63 ±9.6 %	10511 AAE LTE-TDD (SC-FON 10512 AAF LTE-TDD (SC-FON 10513 AAF LTE-TDD (SC-FON	IA, 100% RB, 15 MHz, 64-QAM, UL Sub) IA, 100% RB, 20 MHz, QPSK, UL Sub) IA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDO LTE-TDO LTE-TDO	8.51 ±9.6% 7.74 ±9.6% 8.42 ±9.6%
10457 AAA UMTS-FDD ( 10458 AAA CDMA2000 ( 10459 AAA CDMA2000 (	DC-HSDPA) IxEV-DO, Rev. B, 2 carriers) IxEV-DO, Rev. B, 3 carriers)	WCDMA LTE-TOD LTE-FOD LTE-FOD LTE-FOD LTE-FOD WCDMA Test WLAN WCDMA CDMA2000 CDMA2000 WCDMA	6.52 ±9.6 % 6.55 ±9.6 % 8.25 ±9.6 %	10514 AAF LTE-TDD (SC-FOX 10515 AAA IEEE 802.11b WF 10516 AAA IEEE 802.11b WF	M. 100% RB. 20 MHz. 64-QAM. UL Sub) 2.4 GHz (DSSS, 2 Mbps, 99pc dc) 2.4 GHz (DSSS, 5 5 Mbps, 99pc dc)	WLAN WLAN	8.45 ± 9.6 % 1.58 ± 9.6 % 1.57 ± 9.6 %
10460 AAA UMTS-FDD ( 10461 AAB LTE-TDD (St	ACDMA, AMR) -FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	WCDMA LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO LTE-TDO	7.82 ± 9.6 %	10517 AAA IEEE 802.11b WF 10518 AAC IEEE 802.11ah W	2.4 GHz (DSSS, 11 Mbps, 99pc dc) Fi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	823 +96%
10463 AAB LTE-TDD (SI 18464 AAC LTE-TDD (SI	FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub) FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDO LTE-TDO	7.82 ±9.6 %	10520 AAC IEEE 802.11ah W 10521 AAC IEEE 802.11ah W	FI 5 GHz (OFDM, 12 https, 98pc dc) FI 5 GHz (OFDM, 18 Mbps, 98pc dc) FI 5 GHz (OFDM, 24 Mbps, 98pc dc)	WLAN WLAN WLAN	8.39 ±9.6% 8.12 ±9.6% 7.97 ±9.6%
10465 AAC LTE-TDD (SI 10466 AAC LTE-TDD (SI 10467 AAF LTE-TDD (SI	FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub) FDMA, 1 RB, 3 MHz, 84-QAM, UL Sub) FDMA, 1 RB, 5 MHz, GPSK, UL Sub)	LTE-TDD LTE-TDD	8.32 ± 9.6 % 8.57 ± 9.6 % 7.82 ± 9.6 %	10522 AAC IEEE 802.11ah W 10523 AAC IEEE 802.11ah W 10524 AAC IEEE 802.11ah W	FI 5 GHz (OFDM, 36 Mbps, 98pc do) FI 5 GHz (OFDM, 48 Mbps, 98pc do) FI 5 GHz (OFDM, 54 Mbps, 99pc do)	WLAN WLAN WLAN	845 ±96% 808 ±96% 827 ±96%
10468 AAF LTE-TDO (SI 10469 AAF LTE-TDO (SI	-FDMA, 1 RB, 5 MHz, 18-QAM, UL S(b) -FDMA, 1 RB, 5 MHz, 84-QAM, UL S(b)	LTE-TDO LTE-TDO	8.32 ± 9.0 % 8.56 ± 9.6 %	10525 AAC IEEE 802.11ac WI 10526 AAC IEEE 802.11ac WI	1 (20MHz, MCS0, 99pc do) 1 (20MHz, MCS1, 99pc do)	WLAN WLAN	8.36 ±9.6% 8.42 ±9.6%
10471 AAF LTE-TOD (SI 10472 AAF LTE-TOD (SI	FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub) -FDMA, 1 RB, 10 MHz, 84-QAM, UL Sub)	LTE-TDO LTE-TDO LTE-TDO	8.32 ± 9.6 % 8.57 ± 9.6 %	10528 AAC IEEE 802.11sc WI 10529 AAC IEEE 802.11sc WI	1 (20MHz, MCS3, 98pc do) 1 (20MHz, MCS4, 98pc do)	WLAN WLAN	8.36 ± 9.6 % 8.36 ± 9.6 %
10474 AAE LTE-TOD (SI 10475 AAE LTE-TOD (SI	FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub) -FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub) -FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDO LTE-TDO	7.82 ±9.6 % 8.32 ±9.0 % 8.56 ±9.0 % 7.82 ±9.6 % 8.32 ±9.6 % 8.32 ±9.6 % 8.57 ±9.6 % 8.32 ±9.6 % 8.32 ±9.6 % 8.32 ±9.6 % 8.32 ±9.6 %	10532 AAC IEEE 802.11ac WI 10533 AAC IEEE 802.11ac WI	i (20MHz, MCS7, 98pc do) ii (20MHz, MCS7, 98pc do)	WILAN	845 ±96% 808 ±96% 827 ±96% 836 ±96% 842 ±96% 841 ±96% 836 ±96% 836 ±96% 838 ±96% 838 ±96% 843 ±96% 843 ±96% 843 ±96%
10477 AAF LTE-TDD (SI 10478 AAF LTE-TDD (SI 10479 AAB LTE-TDD (SI	FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub) FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub) FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDO LTE-TDO LTE-TDO	8.32 ± 9.6 % 8.57 ± 9.6 % 7.74 ± 9.6 %	10534 AAC IEEE 802.11ac WI 10535 AAC IEEE 802.11ac WI 10536 AAC IEEE 802.11ac WI	1 (40MHz, MCS0, 98pc dc) 1 (40MHz, MCS1, 98pc dc) 1 (40MHz, MCS2, 98pc dc)	WLAN WLAN WLAN	8.45 ± 9.6 % 8.45 ± 9.6 % 8.32 ± 9.6 %
10480 AAB LTE-TDD (SI 10481 AAB LTE-TDD (SI 10482 AAC LTE-TDD (SI	64 CMA, CROTE,  64 CMA, CROTE,  WIN 2.4 CM CUSSS 1 Mayes, Right etc.	LTE-TDO LTE-TDO	8.18 ±9.6 % 8.45 ±9.6 %	10537 AAC IEEE 802.11ac Will 10538 AAC IEEE 802.11ac Will 10540 AAC IEEE 802.11ac Will	A. 1007-181 SURV. 18 DAN LI, Bold.  A. 1007-181 SURV. 18 DAN LI, Bold.  A. 1007-181 SURV. 10 DAN LI, B	WLAN WLAN	827 266% 838 196% 842 136% 821 156% 836 196% 836 196% 838 196% 843 196% 844 196% 844 196% 845 196% 846 196% 846 196% 846 196% 846 196% 846 196% 846 196% 846 196% 846 196%
10483 AAC LTE-TDD (Se 10484 AAC LTE-TDD (Se	FDMA, 50% RB, 3 MHz. 16-QAM, Sub) -FDMA, 50% RB, 3 MHz. 64-QAM, UL Sub)	LTE-TOO LTE-TOO LTE-TOO LTE-TOO LTE-TOO	7.71 ±9.6 % 8.39 ±9.6 % 8.47 ±9.6 %	10541 AAC IEEE 802.11ac WI 10542 AAC IEEE 802.11ac WI	(40MHz, MCS7, 99pc dc) (40MHz, MCS8, 99pc dc)	WLAN WLAN WLAN	8.39 ± 9.6 % 8.46 ± 9.6 % 8.65 ± 9.6 %
10485 AAF LTE-TOD (SI 10487 AAF LTE-TOD (SI	FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TOD LTE-TOD LTE-TOD	7.59 ± 9.6 % 8.38 ± 9.6 % 8.60 ± 9.6 % 7.70 ± 9.6 %	10544 AAC IEEE 802 11ac WI 10545 AAC IEEE 802 11ac WI	1 (80MHz, MCS0, 99pc dc) 1 (80MHz, MCS1, 99pc dc)	WLAN WLAN WLAN WLAN	8.65 ±9.6 % 8.47 ±9.6 % 8.55 ±9.6 % 8.35 ±9.6 %
IO400   VOL   FIE-IOD (0)					Page 16 of 24		
			March 30, 2022 8.49 1 9.9 5 5 8.37 9.9 5 5 8.39 9.9 5 5 8.30 1.9 5 5 8.42 1.9 5 5 8.44 1.9 5 5			WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	March 30, 2022 8.97
			8-49 19-55 1			WILAN	897 1985, 688, 698, 698, 698, 698, 698, 698, 698
			8-49 19-55 1			WILAN	897 1985, 688, 698, 698, 698, 698, 698, 698, 698
			100   105			WILAN	BPT   100
			100   105			WAAN WAAN WAAN WAAN WAAN WAAN WAAN WAAN	10   10   10   10   10   10   10   10
			100   105			WALAN   WALA	100   100
			100   105			WAAN WAAN WAAN WAAN WAAN WAAN WAAN WAAN	10   10   10   10   10   10   10   10
			100   105			WAAN WAAN WAAN WAAN WAAN WAAN WAAN WAAN	10   10   10   10   10   10   10   10
			100   105			WAAN WAAN WAAN WAAN WAAN WAAN WAAN WAAN	10   10   10   10   10   10   10   10
	Proget 15 of 24 in 16 of 24 in		100   105			WAAN WAAN WAAN WAAN WAAN WAAN WAAN WAAN	10   10   10   10   10   10   10   10



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10673 AAC IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN 8.78 ±9.6%	10729 AAC IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN 8.64 ± 9.6 %
10674 AAC IEEE 802.11ax (20MHz, MCS3, 90pc dc) 10675 AAC IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN 8.74 ± 9.6 % WLAN 8.90 ± 9.6 %	10730 AAC IEEE 802.11ax (80MHz, MCS11, 90pc dc) 10731 AAC IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN 8.67 ±9.6 % WLAN 8.42 ±9.6 %
	WLAN 8.77 ±9.6 % WLAN 8.73 ±9.6 %	10732 AAC IEEE 802.11ax (80MHz, MCS1, 99pc dc) 10733 AAC IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN 8.46 ± 9.6 % WLAN 8.40 ± 9.6 %
10677 AAC IEEE 802.11ex (20MHz, MCS6, 90pc dc) 10678 AAC IEEE 802.11ex (20MHz, MCS7, 90pc dc)	WLAN 8.78 ±9.6%	10234 AAC IEEE 802 15au (80MHz, MCS3, 99no 45)	WLAN 8.25 ± 9.6 %
10679 AAC IEEE 802.11ax (20MHz, MCS8, 90pc dc) 10680 AAC IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN 8.89 ±9.6 % WLAN 8.80 ±9.6 %	10735 AAC IEEE 802 11ax (80NHz, MCS4, 98pc dc) 10736 AAC IEEE 802 11ax (80NHz, MCS5, 98pc dc)	WLAN 8.33 ±96% WLAN 8.27 ±96%
10681 AAC IEEE 802.11ax (20MHz, MCS10, 90pc dc)	W.AN 8.62 ±9.6% W.AN 8.83 ±9.6%	10737 AAC IEEE 802.11sx (80MHz, MCS6, 99pc dc) 10738 AAC IEEE 802.11sx (80MHz, MCS7, 99pc dc)	WLAN 8.36 ± 9.6 % WLAN 8.42 ± 9.6 %
TOBBS   AAC	WLAN 8.42 ± 9.6 %	10739 AAC IEEE 802.11ax (80MHz, MCS9, 99pc dc) 10740 AAC IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN 8.29 ±9.6%
10885 AAC IEEE 802.118x (20MHz, MCS1, 99pc 6c)	WLAN 8.33 ±9.6%	10740 AAC IEEE 802.118x (SOMHE, MCS9, 1990 dc) 10741 AAC IEEE 802.118x (SOMHE, MCS10 990 dc) 10742 AAC IEEE 802.118x (SOMHE, MCS10, 1990 dc)	WLAN 8.48 ± 9.6 % WLAN 8.40 ± 9.6 % WLAN 8.43 ± 9.6 %
10686 AAC IEEE 802.11ax (20MHz, MCS3, 98pc dc) 10687 AAC IEEE 802.11ax (20MHz, MCS4, 98pc dc)	WLAN 8.28 ±9.6 % WLAN 8.45 ±9.6 %		WLAN 8.43 ±9.6 % WLAN 8.94 ±9.6 %
10887 AAC IEEE 802 11ac (20MHz, MCS4, 99pc dc) 10888 AAC IEEE 802 11ac (20MHz, MCS5, 90pc dc) 10689 AAC IEEE 802 11ac (20MHz, MCS6, 90pc dc)	WLAN 829 ±9.6 % WLAN 855 ±9.6 %	10744 AAC IEEE 802.11ax (100MHz, MCS1. 90pc dc) 10745 AAC IEEE 802.11ax (160MHz, MCS2. 90pc dc)	WLAN 8.94 ±9.6 % WLAN 9.16 ±9.6 % WLAN 8.93 ±9.6 %
10690 AAC IEEE 802.11ax (20MHz, MCSR, 99pc dc) 10991 AAC IEEE 802.11ax (20MHz, MCSR, 99pc dc)	WLAN 8.29 ± 9.6 %	10746 AAC   EEE 802.118x (160MHz, MCSs, 90pc dc) 10747   AAC   EEE 802.118x (160MHz, MCSs, 90pc dc)	WLAN 9.11 ±9.6%
10692 AAC IEEE 802.11ax (20MHz, MCS9, 96ec dc)	WLAN 8.25 ± 9.6 % WLAN 8.29 ± 9.6 %	10748 AAC IEEE 802.11sx (160MHz, MCS5, 90pc dc)	WLAN 9.04 ±9.6 % WLAN 8.93 ±9.6 %
10693 AAC IEEE 802.11ax (20MHz, MCS10, 99pc dc) 10694 AAC IEEE 802.11ax (20MHz, MCS11, 99pc dc) 10688 AAC IEEE 802.11ax (40MHz, MCS0, 90pc dc)	VI.AN 8.25 ± 9.6 % VI.AN 8.57 ± 9.6 %		WLAN 8.90 ±9.6 % WLAN 8.79 ±9.6 %
10695 AAC IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN 8.78 ± 9.6 %	10750 AAC IEEE 802.11ax (160MHz, MCSE) 90pc dc) 10751 AAC IEEE 802.11ax (160MHz, MCSE) 90pc dc) 10751 AAC IEEE 802.11ax (160MHz, MCSE) 90pc dc)	WLAN 8.82 ±9.6% WLAN 8.81 ±9.6%
10696 AAC IEEE 802 11ax (40MHz, MCS1, 90pc dc) 10697 AAC IEEE 802 11ax (40MHz, MCS2, 90pc dc)	WIAN RET +96%	10752 AAC IEEE 802.11ax (160MHz, MCS9, 90pc dc) 10753 AAC IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WIAN 900 +96%
10698 AAC IEEE 802 11ax (40MHz, MCS3, 90pc dc) 10699 AAC IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN 8.89 ± 9.6 % WLAN 8.82 ± 9.6 %	1075 AAC TIER GOT THE (TOWNER, MCA) THE SPEC OF 1075 AAC TIER GOT THE (TOWNER, MCA) THE SPEC OF 10755 AAC TIER GOT THE (TOWNER, MCA) THE GOT THE THE GOT THE (TOWNER, MCA) THE GOT THE T	WLAN 8.94 ± 9.6 % WLAN 8.64 ± 9.6 %
10700 AAC IEEE 802.11ax (40MHz, MCSS, 90pc dc) 10701 AAC IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN 8.73 ±9.6 % WLAN 8.86 ±9.6 %	10756 AAC IEEE 802.11sx (160MHz, MCS1, 98pc dc)	WLAN 877 ±9.6 N WLAN 877 ±9.6 N
	WLAN 8.70 ± 9.6 %	10758 AAC IEEE 802.11ax (160WHz, MCS3, 99pc dc)	WLAN 8.69 ±9.6 %
10705 AAC IEEE 802.11as (40Met, MCS1), 90pc dc) 10704 AAC IEEE 802.11as (40Met, MCS8, 90pc dc) 10704 AAC IEEE 802.11as (40Met, MCS9, 90pc dc) 10705 AAC IEEE 802.11as (40Met, MCS9, 90pc dc)	WLAN 8.82 ±9.6 % WLAN 8.56 ±9.6 % WLAN 8.69 ±9.6 %	10759 AAC IEEE 802.11ax (160MHz, MCS4, 99pc dc) 10760 AAC IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN 8.49 ±9.6 %
10705 AAC IEEE 802.11ax (40MHz, MCS10, 90pc dc) 10706 AAC IEEE 802.11ax (40MHz, MCS11, 90pc dc)		10761 AAC IEEE 802.11ax (160MHz, MCS6, 99pc dc) 10762 AAC IEEE 802.11ax (160MHz, MCS7, 99pc dc)	
10707 AAC IEEE 802.11ax (40MHz, MCS0, 98pc do) 10708 AAC IEEE 802.11ax (40MHz, MCS1, 98pc do)	WLAN 8.32 196 % WLAN 8.55 196 %	100°   AMC   REE BOLT 181 ( MOMPLE, MCAS BROCK)	WLAN 8.53 ±9.6 N WLAN 8.54 ±9.6 N
10709 AAC IEEE 802.11ax (40MHz, 8CCS), 98pc do) 10710 AAC IEEE 802.11ax (40MHz, 8CCS), 98pc do)	WLAN 8.33 ± 9.6 % WLAN 8.29 ± 9.6 %	10765 AAC IEEE 802.11ax (160MHz, MCS10, 99c dc)	WLAN 8.54 ± 9.6 %
10710 AAC IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN 8.39 ±9.6%	10766 AAC IEEE 802,118k (160MHz, MCS11, 98pc dc)  10767 AAE 5G NR (CP-DFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	WLAN 8.51 ± 9.6 % 5G NR FR1 TDD 7.99 ± 9.6 % 5G NR FR1 TDD 8.01 ± 9.6 %
10711 AAC IEEE 802.11ax (40MHz, MCS4, 99pc dc) 10712 AAC IEEE 802.11ax (40MHz, MCS6, 99pc dc) 10713 AAC IEEE 802.11ax (40MHz, MCS6, 99pc dc)		10767 AAE 5G NR (CP-GFDM, 1 RB, 5 MHz, GPSK, 15 kHz) 10768 AAD 5G NR (CP-GFDM, 1 RB, 10 MHz, GPSK, 15 kHz) 10769 AAD 5G NR (CP-GFDM, 1 RB, 15 MHz, GPSK, 15 kHz)	5G NR FR1 TDD 8.01 ±9.6 %
10714 AAC IEEE 802.11ax (40MHz, MCS7, 98pc dc) 10715 AAC IEEE 802.11ax (40MHz, MCS8, 98pc dc)	WLAN 8.26 ±9.6 % WLAN 8.45 ±9.6 %	10770 AAD 5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	SG NR FR1 TDD 8.01 ±9.6 % SG NR FR1 TDD 8.02 ±9.6 % SG NR FR1 TDD 8.02 ±9.6 %
10716 AAC IEEE 802.11ax (40MHz, MCS9, 98pc dc) 10717 AAC IEEE 802.11ax (40MHz, MCS10, 98pc dc)	WLAN 8.30 ± 9.6 %	10772 AAD 50 NR (CP-0FDM, 1 Rs, 30 MHz, QPSK, 15 KHz) 10773 AAD 50 NR (CP-0FDM, 1 Rs, 40 MHz, QPSK, 15 KHz)	95 NR FRI TDD 8.02 ± 8.6 % 55 NR FRI TDD 8.03 ± 8.6 % 95 NR FRI TDD 8.02 ± 9.6 % 95 NR FRI TDD 8.02 ± 9.6 % 95 NR FRI TDD 8.30 ± 9.6 %
10719 AAC IEEE 802.11ax (40MHz, MCS10, 98pc do) 10719 AAC IEEE 802.11ax (40MHz, MCS11, 98pc do) 10719 AAC IEEE 802.11ax (80MHz, MCS0, 90pc do)	WLAN 8.24 ± 9.6 %	10775 AAD SUINK (CPC-0FUM, 1985, 40 MHz, QPSK, 15 KHz) 10774 AAD SUINK (CPC-0FUM, 1985, 50 MHz, QPSK, 15 KHz) 10775 AAD 5G NR (CPC-0FDM, 50% R8, 5 MHz, QPSK, 15 KHz)	5G NR FR1 TDD 8.03 ± 9.6 % 5G NR FR1 TDD 8.02 ± 9.6 %
10719 AAC IEEE 802.11ax (80MHz, MCS0, 90pc dc) 10720 AAC IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN 8.81 ±9.6 % WLAN 8.87 ±9.6 %	10775 AAD 5G NR (CP-OFDM, 50% R8, 5 MHz, QPSK, 15 kHz) 10776 AAD 5G NR (CP-OFDM, 50% R8, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 8.31 ±9.6 %
10720 AAC IEEE 802 11ex (80MHz, MCS1, 90pc dc) 10721 AAC IEEE 802 11ex (80MHz, MCS2, 90pc dc) 10722 AAC IEEE 802 11ex (80MHz, MCS3, 90pc dc)	WLAN 8.87 ±9.6 % WLAN 8.76 ±9.6 % WLAN 8.55 ±9.6 %	10776 AAD 50 NR (CP-0FDM, 50N RB, 10 MHz, QPSK, 15 kHz) 10777 AAC 50 NR (CP-0FDM, 50N RB, 15 MHz, QPSK, 15 kHz) 10778 AAD 50 NR (CP-0FDM, 50N RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD 8:30 ± 9.6 %
10723 AAC IFFE 800 11ay (80MHz MCSA 90sc-de)	WLAN 8.55 ±9.6 % WLAN 8.70 ±9.6 % WLAN 8.90 ±9.6 %	10779 AAD SGNR (CP-CPDM, 50% RB, 25 MHz, CPSR, 15 MHz) 10779 AAC SGNR (CP-CPDM, 50% RB, 25 MHz, CPSR, 15 MHz) 10780 AAC SGNR (CP-CPDM, 50% RB, 25 MHz, CPSR, 15 MHz) 10780 AAD SGNR (CP-CPDM, 50% RB, 25 MHz, CPSR, 15 MHz)	5G NR FR1 TDD 8.34 ± 9.6 5 5G NR FR1 TDD 8.42 ± 9.6 5
10724 AAC IEEE 802.11ax (80MHz, MCSS, 90pc dc) 10725 AAC IEEE 802.11ax (80MHz, MCSS, 90pc dc) 10726 AAC IEEE 802.11ax (80MHz, MCSS, 90pc dc)	WLAN 8.74 ± 9.6 %	10781 AAD 50 NR (CP-0FDM, 50° RR, 50 MRz, QPSK, 15 Mrz) 10781 AAD 50 NR (CP-0FDM, 50° RR, 50 MRz, QPSK, 15 Mrz) 10782 AAD 50 NR (CP-0FDM, 50° RR, 50 Mrz, QPSK, 15 Mrz)	5G NR FR1 TDD 8.38 ±9.6 % 5G NR FR1 TDD 8.38 ±9.6 % 5G NR FR1 TDD 8.43 ±9.6 %
	WLAN 8.66 ± 9.6 %	10783 AAE 5G NR (CP-0FDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD   8.31   ± 9.6 %
10728 AAC IEEE 802.11ax (80MHz, MC59, 90pc dc)	WLAN 8.65 ± 9.6 %	10784 AAD 5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 MHz)	5G NR FR1 TDD 8.29 ± 9.6 %
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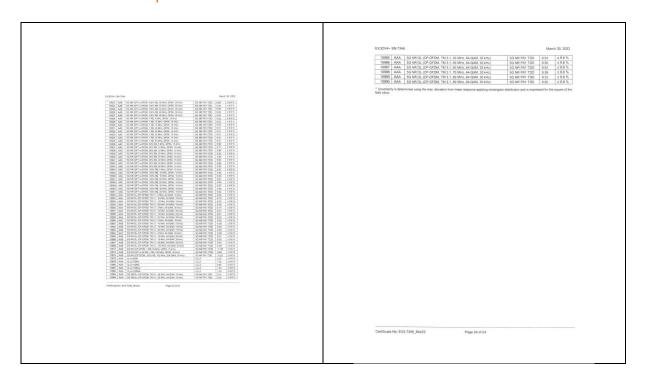


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### 4 Impedance and return loss

Dipole CLA150 SN 4025									
Head Liquid									
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ					
2021/4/26	-31.4	/	47.8	/					
Dipole D450V3 SN 1103									
Head Liquid									
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ					
2021/4/21	-23	/	57.1	/					



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