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Appendix C for KSCR220800133001

Calibration Certificate

Object	Apply	No	Model	Model SN	
		1	CLA150	4025	2021/04/26
		2	D450V3	1103	2021/04/21
		3	D750V3	1188	2022/03/29
		4	D835V2	4d114	2022/03/31
		5	D900V2	1d079	2022/06/07
D		6	D1800V2	2d170	2022/03/31
Dipole	Dipole	7	D1900V2	5d1136	2022/06/07
		8	D2000V2	1041	2022/06/06
		9	D2300V2	1096	2022/03/31
			D2450V2	817	2022/04/01
		11	D2600V2	1158	2022/03/31
		12	D5GHzV2	1095	2022/06/01
DAE		13	DAE4	1245	2022/05/30
Probe		14	EX3DV4	7346	2022/03/30



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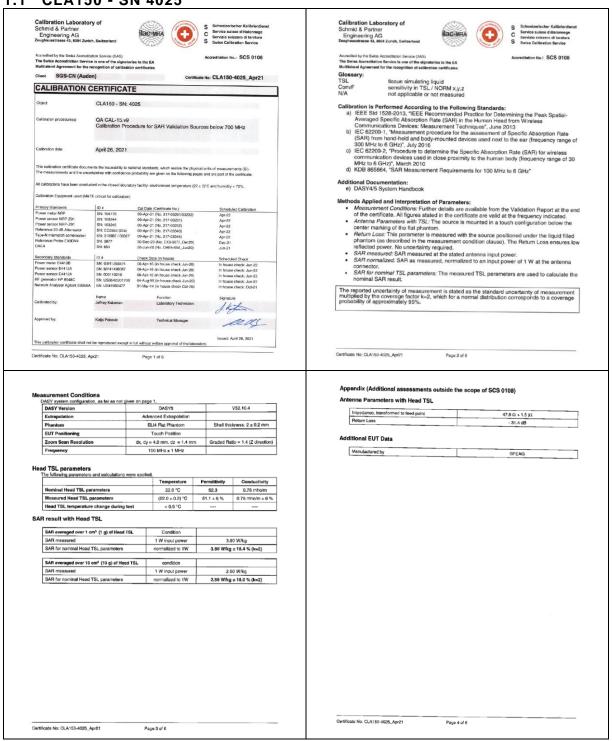
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1 Dipole

1.1 CLA150 - SN 4025





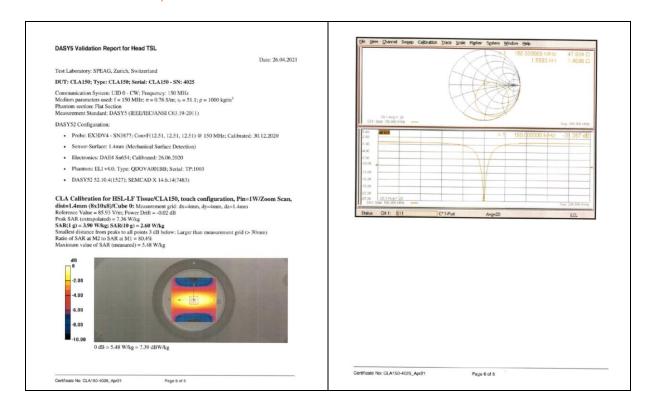
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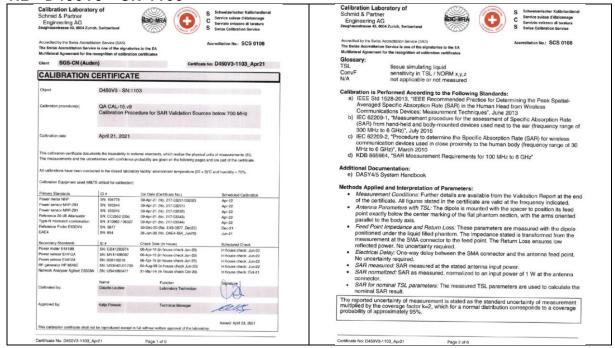
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1.2 D450V3 - SN 1103





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Measurement Conditions

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	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 The following parameters and calculations were	applied.		
	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	43.5	0.87 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	43.1±6%	0.87 mho/m ± 6 %

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)

Parameters	

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

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 sensitifal cooxial cable. The center conductor of the feeding line is needly connected second arm of the dipole, The antenna is therefore short-decaded for CO-signets. On some of the dipole, small under a additior for the older arm in order in propriore matching when headed according to the Signets are not referred in propriore matching when headed according to the Signets are not referred to notice of the special control of

Additional EUT Data

Manufactured by	SPEAG

Certificate No: D450V3-1103_Apr21

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Date: 21.04.2021

DASY5 Validation Report for Head TSL

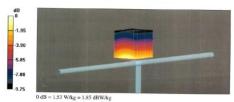
DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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)

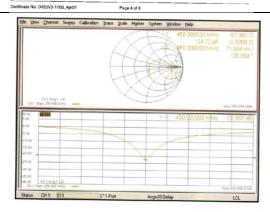
DASY52 Configuration:

- 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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Certificate No: D450V3-1103_Apr21

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1.3 D750V3 - SN 1188





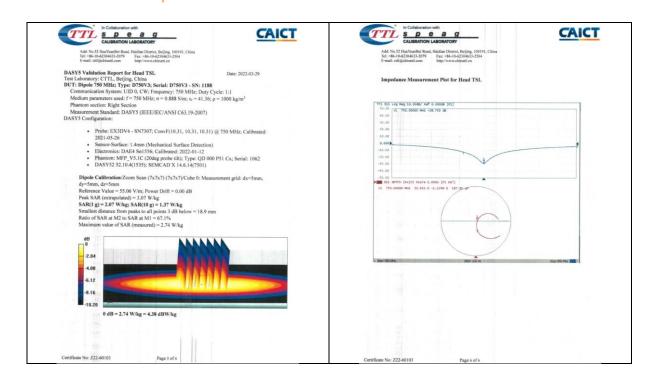
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1.4 D835V2 - SN 4d114





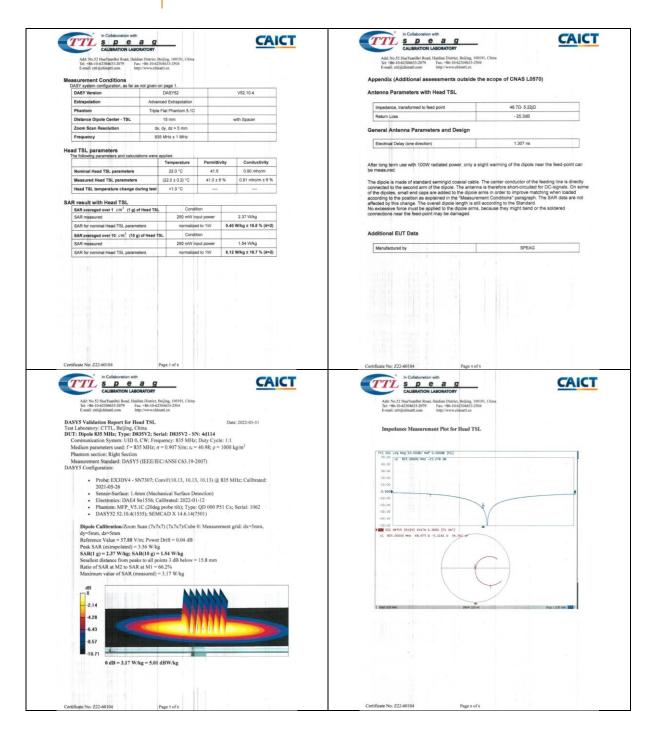
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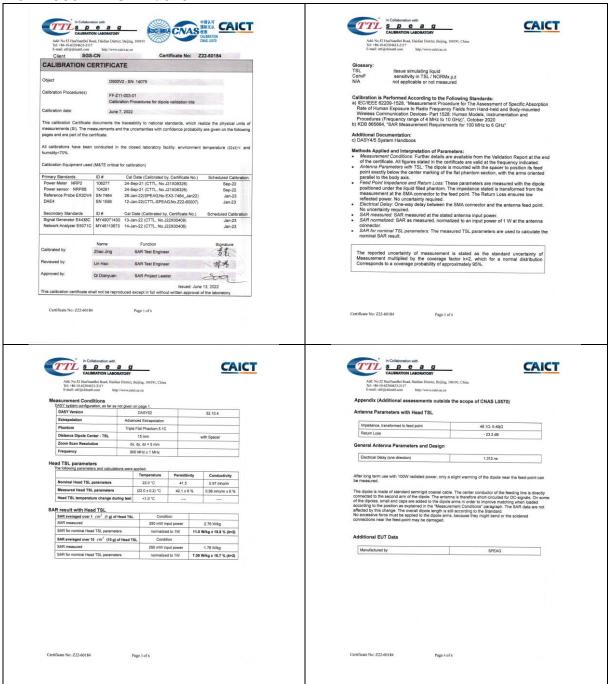
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1.5 D900V2 - SN 1d079





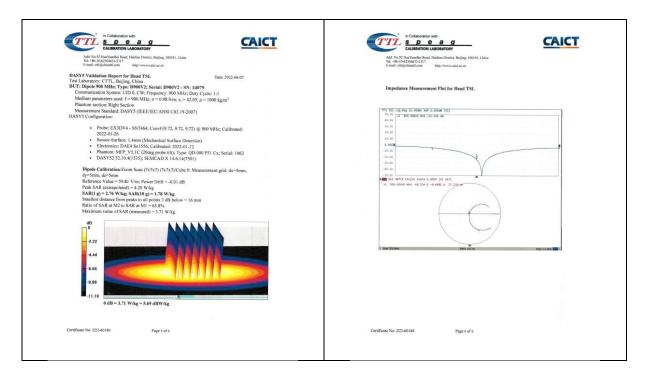
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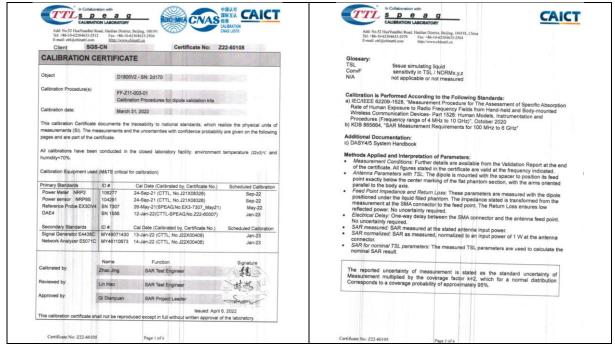
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1.6 D1800V2 - SN 2d170



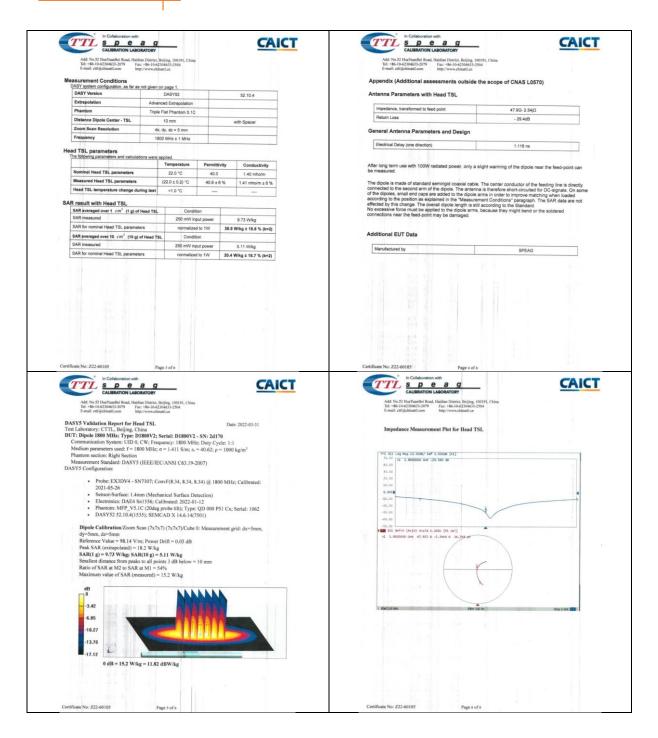


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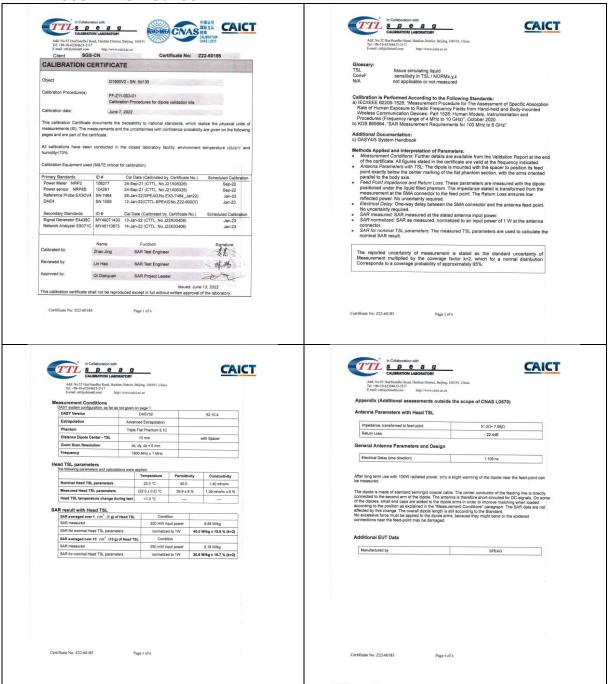
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1.7 D1900V2 - SN 5d136



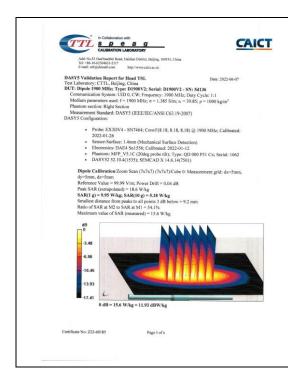


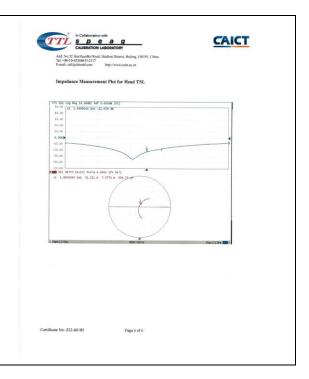
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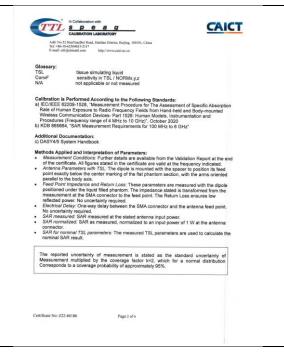
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1.8 D2000V2 - SN 1041





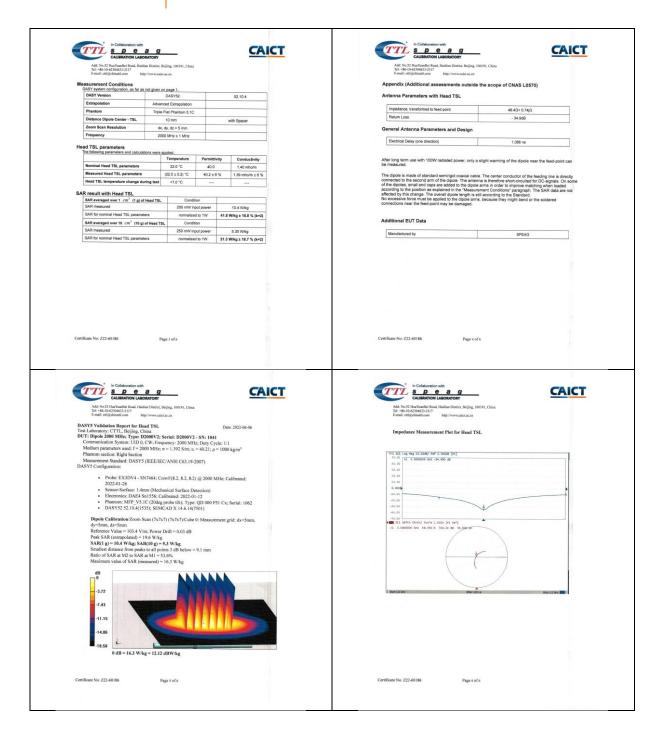


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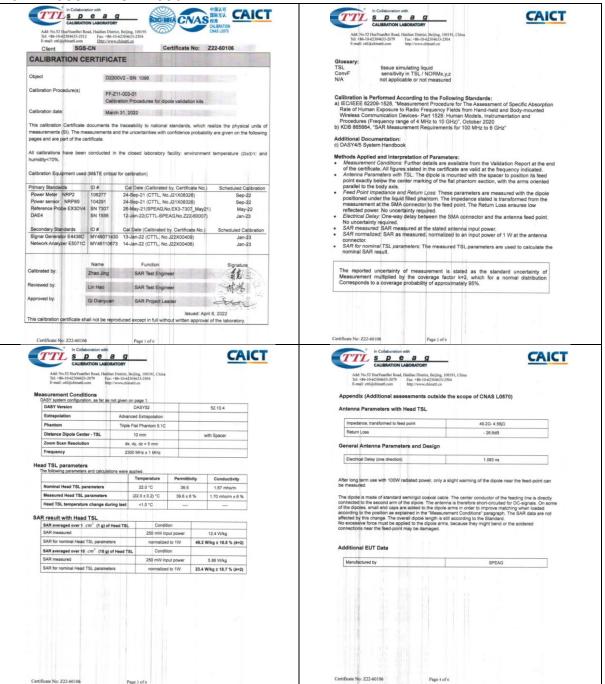
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1.9 D2300V2 - SN 1096





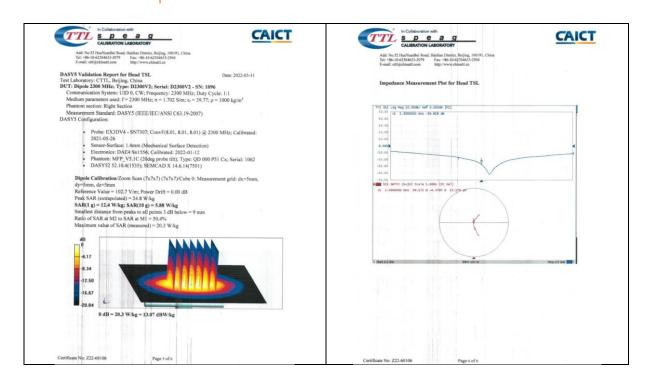
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1.10 D2450V2 - SN 817





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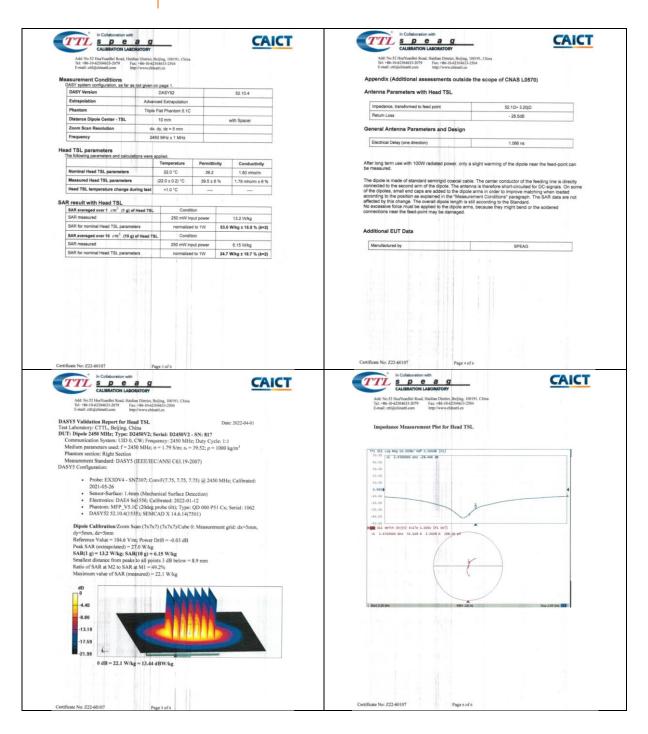
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1.11 D2600V2 - SN 1158





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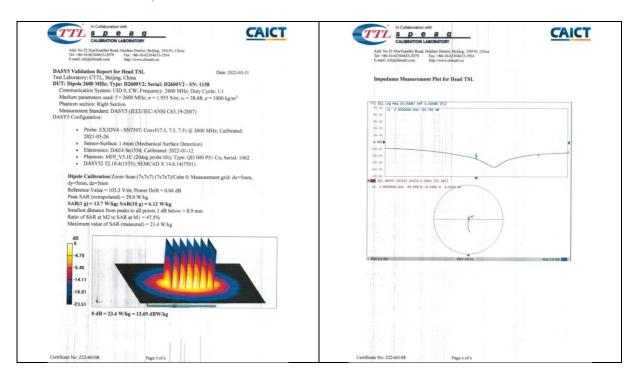
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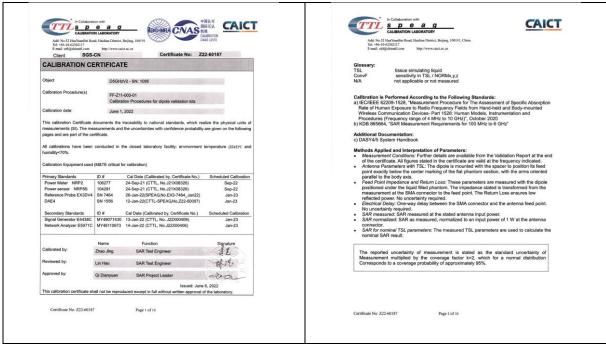




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1.12 D5GHzV2 - SN 1095





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CAICT

CAICT





CAICT

CAICT

urement Conditions
Y 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	re	sult wit	h Hea	be	TSI	Lat	5200M	Hz
	SAR	averaged	over '	1	m ³	(1 g	of Head	TSL
- 10	SAR	measure	ert					

SAR averaged over 1 cm ³ (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 ³ (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)

Certificate No: Z22-60187

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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	nine.	_

SAR result with Head TSL at 5300MHz

SAR averaged over 1 cm ³ (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 ³ (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)

Head TSL parameters at 5500MHz

	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 result with Head TSL at 5500MHz

SAR averaged over 1 cm3 (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 ³ (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)

Certificate No: Z22-60187

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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 %
Head TSL temperature change during test	<1.0 °C	_	-

SAR result with Head TSL at 5600MHz

SAR averaged over 1 cm2 (1 g) of Head TSL	Condition	
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 ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.30 W/kg

	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 %
Manual TREE descriptions observed absolute to all	-4.0.40		

SAR averaged over 1 cm3 (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 ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Heart TSL parameters	pormalized to 1W	21 5 W/kg + 24 2 % (4m2)

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dix (Additional assessments outside the scope of CNAS L0570) ters with Head TSL at 5200MHz

Impedance, transformed to feed point	46.1Ω- 5.03jΩ	
	00.048	

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- 4.26jΩ
Return Loss	- 27.4dB

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

enna Parameters with Head TSI at 5800MHz

mema i didiistoro mini risad rez ar sere	**************************************	
Impedance, transformed to feed point	51.5Q- 5.61jQ	_
Return Loss	- 24.9dB	

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Test Report Form Version: Rev01

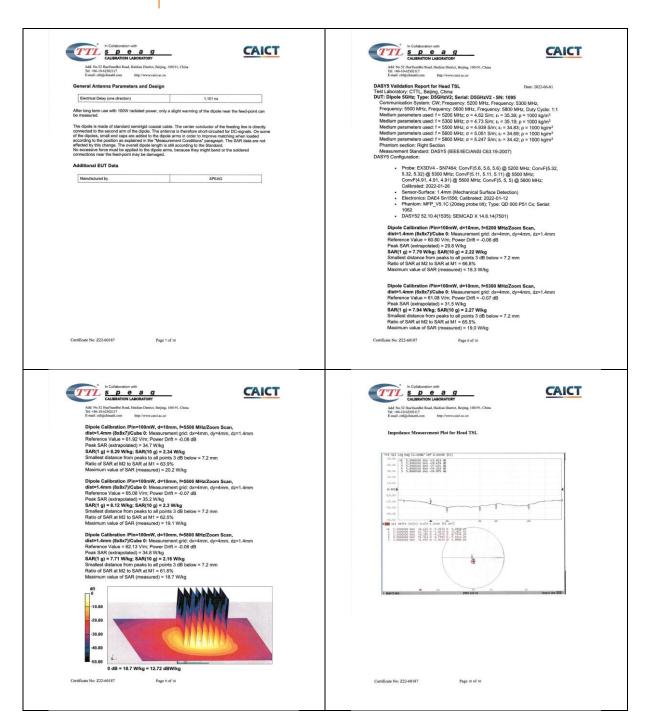
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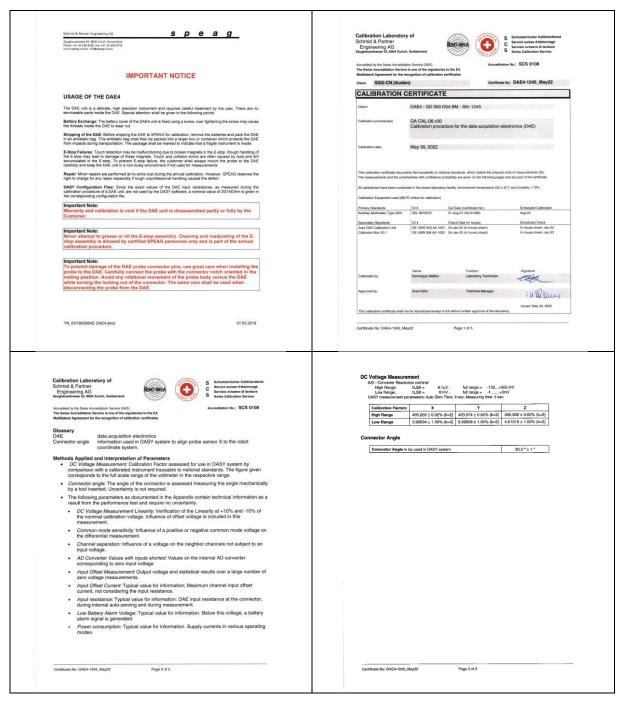
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2 DAE4 - SN 1245





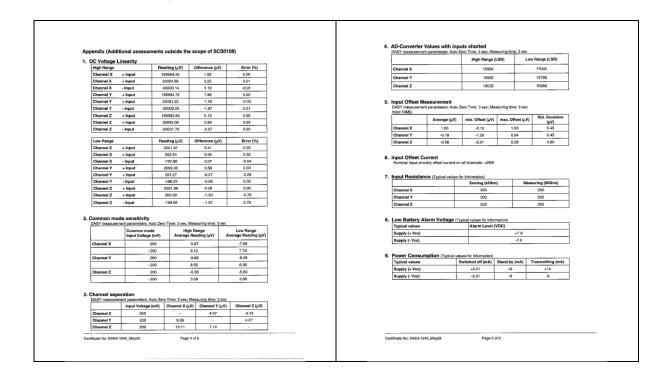
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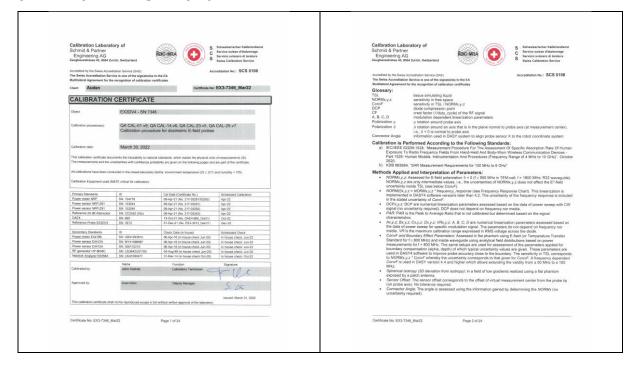
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3 EX3DV4 - SN 7346





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DASY/EA	ASY - Par	ameters	of Prob	e: EX3D	V4 - SI	N:7346		DASY/EASY - Parameters	s of Probe: EX3DV4 - SN:7346
	ation Paramet	ers Sensor X	-	emany Y	Senso	w 7	Une (km2)	C1 C2 α	T1 T2 T3 T4 T5 T6
Norm (µV/(V/m) DCP (mV) ^B) ² /*	0.46 101.4		0.47 106.0	0.6	9	± 10.1 %	C1 C2 α FF FF V*1 X 39.3 291.80 35.10 Y 37.1 270.84 34.12 Z 9.7 69.74 33.37	T1 T2 T3 T4 T5 T6 W1
Calibration R	Results for Mo	dulation Res	ponse					Z 9.7 69.74 33.37	4.96 0.00 4.94 0.61 0.00 1.00
0 CW	nmunication Syste	m Name	A dB		0.00 143		Max Unc ⁴ (k=2) ± 4.7 %	Other Probe Parameters Sensor Arrangement	Triangular
		Y Z	0.00 0/ 0.00 0/ 0.00 0/	1.00	135	3		Connector Angle (*)	-166.1
AAA	se Waveform (200H	Y	3.33 68 4.03 70 1.63 61	0 12.35	10.00 60.1 60.1	0 ±35% 0	±9.6 %	Mechanical Surface Detection Mode Optical Surface Detection Mode	enabled disabled
AAA	se Waveform (200H	Y	3.00 70 11.51 81 0.83 60	2 14.72	6.99 801 801	0	±9.6%	Probe Overall Length Probe Body Diameter	337 mm 10 mm
AAA	se Waveform (200H	Y	7,41 78 20,00 87 0.18 138	2 15.51	3.98 95.1 95.1	0 ±2.7% 0	100000	Tip Length Tip Diameter	9 mm 2.5 mm
AAA	se Waveform (200H	Y 7	2.27 72 20.00 91 7.94 150	3 9.52 8 16.29 51 16.87	2.22 120 120	0 ±1.7%		Probe Tip to Sensor X Calibration Point	1 mm
AAA	SK Waveform, 1 Mil-	tz X	20.00 91 7.94 159 1.47 64 1.56 66 0.45 61 1.96 66 2.06 67 1.21 64	18 13.82 14 14.70	1.00 150	0 ±42%	±9.6%	Probe Tip to Sensor Y Calibration Point Probe Tip to Sensor Z Calibration Point	1 mm
10388- QPS AAA	SK Waveform, 10 M	Hz X	1.96 66 2.06 67	7 14.65 3 15.38	0.00 150 150	0 ±1.1%	± 9.6 %	Recommended Measurement Distance from S	Surface 1.4 mm
10396- 64-0 AAA	QAM Waveform, 10	0 kHz X			3.01 150 150	0 ±10%	±9.6 %	Note: Measurement distance from surface can be	increased to 3-4 mm for an Area Scan job.
10399- 64-C	DAM Waveform, 40	MHz Z	2.63 69 2.74 70 1.70 64 3.34 66 3.38 66 2.70 65 4.71 65 4.70 65 3.83 66	2 15.99 19 15.25 12 15.56	0.00 150 150	0 ±20%	±9.6 %		
10414- WLA	AN CODF, 64-QAM	40MHz X	2.70 65 4.71 65 4.20 65	2 14.74 15 15.27	0.00 150	0 ±3.6%	± 9.6 %		
Note: For details	s on UID paramet	ers see Appendix	3.83 66	6 15.28	150	0			
The reported	d uncertainty of	f measuremen	t is stated a	s the standa	rd uncertair	nty of mean	surement		
multiplied by probability of	d uncertainty of the coverage f approximately	factor k=2, wh y 95%.	ich for a no	mal distribut	ion corresp	oonds to a	coverage		
* The uncertainties o	of Norm X V 7 do not	officed then \$12 field one	esteinto impita TI	Jana Danner E vo					
Numerical lineariza Uncertainty is deter field value.	of Norm X,Y,Z do not a stion parameter unce armined using the man	rtainty not required. c. deviation from linea	r response apply	g rectangular dist	ibuton and is ex	spressed for the	square of the		
Certificate No: EX	(3-7346_Mar22		Page 3 of 2	88				Certificate No: EX3-7346_Mar22	Page 4 of 24
						1000		EX30V4 SN 7346	March 30, 20
EX30V4- SN:7348			- f D l	FV2P	V4 01		ch 30, 2022		March 30, 20
DASY/EA	ASY - Par							DASY/EASY - Parameters Calibration Parameter Determined in F	s of Probe: EX3DV4 - SN:7346
DASY/EA	ASY - Par	ermined in He	ad Tissue	Simulating	Media	N:7346		DASY/EASY - Parameters Calibration Parameter Determined in It F(MHz) © Relative Permittivity Conductivity (Smit)" (Smit)"	Head Tissue Simulating Media
Calibration P	ASY - Par	ermined in He Conductivity (S/m) ^F C 0.89	onvFX Con	Simulating VFY ConvF	Media 2. Alpha ⁶ 0.55	N:7346 Depth 6 (mm) 0.85	Unc (k=2) ± 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA	ASY - Par	ermined in He Conductivity (S/m) ^F C 0.89 0.90	onvFX Cor 10.56 10	Simulating FY ConvF: 56 10.56 12 10.12	Media 2. Alpha 6 0.55 0.42	N:7346 Depth 6 (mm) 0.85 0.96	Unc (k=2) ± 12.0 % ± 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA Calibration P f (MHz) c 750 835 900 1450	Parameter Det Relative Permittivity 41.9 41.5 41.5 40.5	ermined in He Conductivity (S/m) ^F C 0.89 0.90 0.97	onvFX Con 10.56 10 10.12 10 10.10 10 9.26 9	Simulating FY ConvF; 56 10.56 12 10.12 10 10.10 26 9.26	Media 2. Alpha ⁶ 0.55 0.42 0.53 0.50	Depth 6 (mm) 0.85 0.96 0.80 0.80	Une (8×2) ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
Calibration P f (MHz) c 750 835 900 1450 1750 1900	Parameter Det Relative Permittivity 9 41.9 41.5 40.5 40.1	ermined in He Conductivity (S/m)* C 0.89 0.90 0.97 1.20 1.37	ead Tissue onvF X Con 10.56 10 10.12 10 10.10 10 9.26 9 8.83 8 8.48 8	Simulating FY ConvF; 56 10.56 12 10.12 10 10.10 26 9.26 33 8.83 8 8.48	Media 2. Alpha ^o 0.55 0.42 0.53 0.50 0.34 0.35	Depth 6 (mm) 0.85 0.96 0.80 0.86 0.86	Unc (\$\mu=2\) ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convit X
DASY/EA Calibration P f (MHz) c 750 835 900 1450 1750	Parameter Det Relative Permittivity 41.9 41.5 40.5 40.1	ermined in He Conductivity (Skm)* C 0.89 0.90 0.90 1.20 1.37 1.40 1.40	ead Tissue onvFX Con 10.56 10 10.12 10 10.10 10 9.26 9 8.83 8 8.48 8 8.35 8	Simulating FY ConvF; 56 10.56 12 10.12 10 10.10 26 9.26 33 8.83 88 8.48 85 8.35	Media 2. Alpha ⁶ 0.55 0.42 0.53 0.50 0.34 0.35 0.34	Depth (mm) 0.85 0.96 0.80 0.86 0.86 0.86	Une (k=2) ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 % ± 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
Calibration Pr (whey c 750 835 800 1450 1750 1900 2000 2450	Parameter Det Relative Permittivity: 41.9 41.5 41.5 40.5 40.1 40.0 40.0 39.5 39.2	ermined in He Conductivity (Shm) C 0.89 0.90 0.97 1.20 1.37 1.40 1.67 1.80	ead Tissue envF X Con 10.56 10 10.12 10 10.10 10 10.10 10 9.26 9 8.83 8 8.48 8 8.48 8 8.35 8 7.86 7 7.63 7	Simulating FY ConvF; 56 10.56 12 10.12 10 10.10 26 9.26 33 8.83 88 8.48 85 8.35 86 7.86 37.83 7.83	Media 2. Alpha o 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.39 0.41	Depth * (mm) (mm) 0.85 0.96 0.80 0.86 0.86 0.86 0.86 0.86 0.86 0.99 0.90 0.90	Une (p=2) ± 12.0 % ± 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
Calibration P F(MHz) c 750 835 900 1450 1750 1900 2000 2300 2450 2500 3300	ASY - Par Relative 41.5 41.5 40.5 40.0 40.0 39.5 39.2 39.0	ermined in He Conductivity (Skm)* C 0.89 0.89 0.90 0.97 1.20 1.37 1.40 1.40 1.67 1.80 2.71	ead Tissue envF X Cor 10.56 10 10.56 10 10.12 10 10.10 10 10	Simulating #FY ConvF; ConvF;	Media 2 Alpha 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.39 0.41 0.44 0.30	Depth 6 (mm) 0.85 0.96 0.80 0.86 0.86 0.86 0.86 0.99 0.90 0.90 1.35	Unc (px-2) % ± 12.0 % ± 13.1 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
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Calibration P (INHA) c 700 835 800 1450 1900 2300 2300 2450 2300 3300 3900 3700 3900 4100 4200	ASY - Par Relative Permittivity 4 15 41.5 40.5 40.1 40.0 39.5 39.2 39.0 38.2 37.7 37.5 37.2 37.1 37.1 37.1 37.1 37.1 37.1 37.1 37.1	ermined in He Conductority 0,09 0,99 0,97 1,20 1,37 1,40 1,40 1,40 1,67 1,80 1,98 2,71 2,91 3,12 3,32 3,53 3,63	ead Tissue envF X Cou 10.56 10 10.56 10 10.12 10 10.926 9 8.83 8 8.48 8 8.35 8 7.783 7 7.733 7 7.733 7 7.744 7 6.85 6 6.71 6 6.58 6 6.58 6	## ConvF Con	Media 2 Alpha 9 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.39 0.41 0.44 0.30 0.30 0.30 0.40 0.40	N:7346 Depth 6 (mm) 0.85 0.96 0.80 0.80 0.86 0.86 0.96 0.90 0.90 0.90 1.35 1.35 1.60 1.60	Une (8=2) 1+20 % 1+20 % 1+2	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
Calibration P f(MHz) c 790 835 800 1450 1750 2000 2000 2340 2690 3300 3700 3900 3900 4100	ASY - Parameter Deb Relative Permittivity 141.9 41.5 41.5 40.5 40.1 40.0 39.5 39.0 39.0 39.0 37.7 37.5	ermined in He Conductivity (Shin) (9.69 0.69 0.99 1.20 1.37 1.40 1.40 1.40 1.67 1.80 1.96 2.71 2.91 3.12 3.53 3.63 3.63	ead Tissue onvF X Cor 10.56 10 10.12 10 10.56 10 10.19 10 9.26 9 8.83 8 8.48 8 8.35 8 7.783 7 7.63 7 7.63 6 6.65 6 6.50 6 6.30 6 6.24 6 6.60	Simulating #FY ConvF: 56 10.56 56 10.56 56 10.56 56 22.66 8.84 8.84 8.85 8.85 8.78 8.35 8.78 8.35 8.78 8.35 8.67 8.67 8.67 8.68 8.68 8.68 8.68 8.68	Media 2 Alpha 9 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.39 0.41 0.44 0.30 0.30 0.40 0.40 0.40	Depth * (mm) (mm) 0.85 0.96 0.86 0.86 0.86 0.90 1.35 1.35 1.60 1.60 1.70	0me 0me 1 120 % 1 120	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA Calibration P f (MHz) c 750 835 800 1450 1450 1200 2200 2300 2450 2500 3500 3700 3500 4100 4200 4400 4400 4400	ASY - Par Relative 41.5 41.5 41.5 41.5 40.5 40.0 40.0 40.0 39.5 39.2 39.0 39.7 37.7 37.7 37.7 37.2 37.1 36.9 36.7	ermined in He Conductivity (Sim) ² C 0.89 0.99 0.99 1.20 1.37 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.57 2.71 2.91 3.12 3.35 3.35 3.84 4.04 4.25	ead Tissue envFX Cor 10.56 10 10.12 10 10.10 10	Simulating of Y ConvF: 50 10.56 10.56 10.56 226 333 7.63 33 7.63 33 7.63 34 7.15 47 7.14 47 7.14 47 7.14 56 6.85 68 630 630 64 6.24 11 6.11	Media 2 Alpha 0 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.39 0.41 0.40 0.40 0.40 0.40 0.40 0.40	Depth 6 (min) 0.85 (min) 0.86 0.96 0.86 0.90 0.90 1.35 1.35 1.60 1.60 1.70 1.70 1.70 1.70 1.80	Unic (8*2) 5 + 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
Calibration P FIRMING F	ASY - Par Relative 115	ermined in He Conductivity (Sem) C 0,89 0,99 0,99 1,20 1,37 1,40 1,40 1,40 1,40 1,40 1,40 1,40 1,40	ead Tissue envF X Cor 10.56 11 10.12 11 10.10 11	Simulating FY ConvF ConvF ConvF 10 10 10 10 10 10 10 10 10	Media 2 Alpha® 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.39 0.41 0.44 0.40 0.40 0.40 0.40 0.40 0.40	Depth 6 (mm) 0.85 (mm) 0.86 (mm) 0.8	Unic (8*2) 5 + 12.0 %	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA Calibration P (weight 700 835 835 836 836 1900 1900 2000 2300 2400 3300 3500 3700 3900 4400 4400 4400 4400 4400 4400 4400 4400	ASY - Par Relative Permittivity 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ermined in He Conductivity (Smill) 0.09 0.09 0.09 1.20 1.37 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40	Padd Tissue Padd T	Simulating FY ConvF. Co	Media 2 Alpha 0 0.55 0.42 0.53 0.50 0.34 0.35 0.34 0.35 0.34 0.40 0.40 0.40 0.40 0.40 0.40 0.40	Depth * (mm)	Unio (pez) 1.12.0 % 1	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA Calibration P f party c 700 805 805 800 11750 1000 2000 2000 2000 2000 3000 2450 2450 2450 2450 2450 2450 2450 2	ASY - Par Parameter Deta Relative 1 4119 4119 4115 4115 40.5 40.1 40.0 40.0 40.0 40.0 30.5 30.0 30.	ermined in He Conductivity (Smil) 0.99 0.99 0.99 1.20 1.37 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1.40	and Tissue anny X Composition (1), 56 10, 12 10, 10 10, 10 10 10, 10 10 10, 10 10 10, 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Simulating FY ConvF; ConvF; ConvF; 10:12:10:10:10:10:10:10:10:10:10:10:10:10:10:	Media 2 Alpha 0 0.55 0.42 0.55 0.34 0.35 0.34 0.39 0.41 0.40 0.40 0.40 0.40 0.40 0.40 0.40	Daptin + (min) Daptin	Unio (820 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 0 %) 1 12 1 %) 1 1	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA Calibration P f (MHz) t 750 835 800 1450 2000 20	ASY - Parmeter Des Relative 41.9 41.9 41.5 40.5 40.1 40.0 39.2 39.2 39.2 39.2 39.2 39.2 39.2 39.2	ermined in He Conductivity 0.992 0.990 1.200 1.37 1.40 1.67 1.40 1.67 1.80 2.71 2.91 3.12 3.32 3.53 3.63 3.84 4.94 4.96 4.96 4.96 4.96 5.07	and Tissue ann/F X Cor 10.56 11 10.12 11 10.10 1	Simulating FY ConvF; 50 10,505 10,505 10,505 10,505 10,1	Media 2 Alpha 6 0 0 42 0 0 53 0 0 42 0 53 0 0 44 0 0 40 0 40 0 40 0 40 0 40	Depth* (min) 0.85 0.98 0.98 0.98 0.98 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	\$20 % ± 72 1 % ± 72 1	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
DASY/EA Calibration P f (MHz) t 750 835 800 1450 2000 20	ASY - Parmeter Des Relative 41.9 41.9 41.5 40.5 40.1 40.0 39.2 39.2 39.2 39.2 39.2 39.2 39.2 39.2	ermined in He Conductivity 0.992 0.990 1.200 1.37 1.40 1.67 1.40 1.67 1.80 2.71 2.91 3.12 3.32 3.53 3.63 3.84 4.94 4.96 4.96 4.96 4.96 5.07	and Tissue ann/F X Cor 10.56 11 10.12 11 10.10 1	Simulating FY ConvF; 50 10,505 10,505 10,505 10,505 10,1	Media 2 Alpha 6 0 0 42 0 0 53 0 0 42 0 53 0 0 44 0 0 40 0 40 0 40 0 40 0 40	Depth* (min) 0.85 0.98 0.98 0.98 0.98 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	\$20 % ± 72 1 % ± 72 1	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Convif X
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ASY/EA alibration P (Week c 750 835 800 1450 1960 2260 2360 2450 2500 3500 3700 4100 4800 4800 4800 4800 5200 5300 5500 5500 5500 5500 5500	ASY - Parmeter Des Relative 41.9 41.9 41.5 40.5 40.1 40.0 39.2 39.2 39.2 39.2 39.2 39.2 39.2 39.2	ermined in He Conductivity 0.992 0.990 1.200 1.37 1.40 1.67 1.40 1.67 1.80 2.71 2.91 3.12 3.32 3.53 3.63 3.84 4.94 4.86 4.86 4.76 4.86 5.07	and Tissue ann/F X Cor 10.56 11 10.12 11 10.10 1	Simulating FY ConvF; 50 10,505 10,505 10,505 10,505 10,1	Media 2 Alpha 6 0 0 42 0 0 53 0 0 42 0 53 0 0 44 0 0 40 0 40 0 40 0 40 0 40	Depth* (min) 0.85 0.98 0.98 0.98 0.98 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	\$20 % ± 72 1 % ± 72 1	DASY/EASY - Parameters Calibration Parameter Determined in 1 (Idlitig) Relative Conductivity (Conductivity (Edition) (Conductivity) (Edition) (C	s of Probe: EX3DV4 - SN:7346 Head Tissue Simulating Media Connf X Connf Y Connf Z Jajan (hr2) 5.30 5.30 5.30 0.20 2.50 ± 18.6



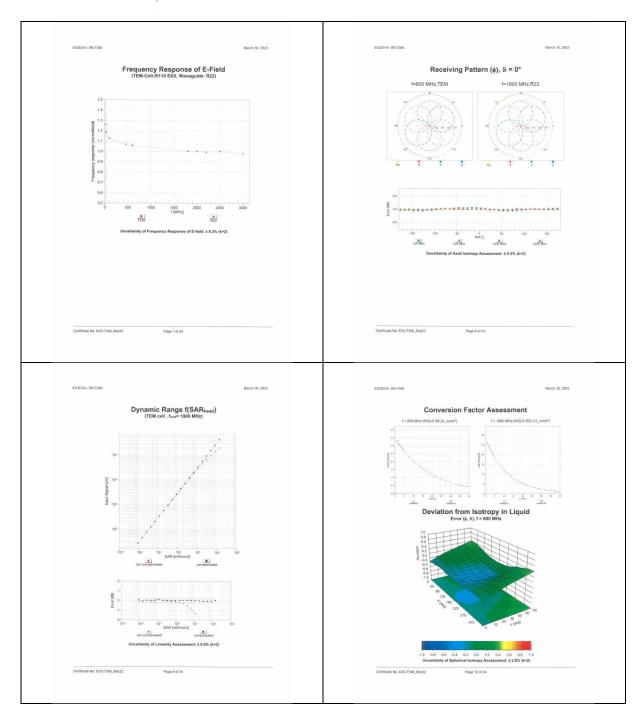
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EX30V4- SN:7346 Appendix: Modulation Calibration Parameters	March 30, 2022	10100 CAE LTE-FDD (SC-FDMA, 100% RB, 20 MHz, OPSK)	LTE-FDD 5.67 ±9.6%
Appendix: Modulation Calibration Parameters UID Rev Communication System Name	Group PAR Unc ^E (dB) (k=2) CW 0.00 ± 4.7 %	10101 CAE LTE-FDD (SC-FDMA, 180% RB, 20 MHz. 16-QAM) 10102 CAE LTE-FDD (SC-FDMA, 180% RB, 20 MHz. 64-QAM)	LTE-FOO 587 198 % LTE-FOO 642 198 % LTE-FOO 642 198 % LTE-FOO 640 198 % LTE-FOO 997 198 % LTE-FOO 1001 198 % LTE-FOO 580 198 % LTE-FOO 643 198 % LTE-FOO 578 198 % LTE-FOO 644 198 % LTE-FOO 646 198 % LTE-FOO 198 % LTE
8 OV A SAN VARIANCE (SEAR VARIANCE STORM) Code Code	Test 20.00 4.00%	10103 CAG LTE-TDD (SC-FDMA, 100% RB, 20 MHz, OPSK) 10104 CAG LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QMM) 10105 CAG LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QMM)	LTE-TOD 9.29 ± 9.6 % LTE-TOD 9.97 ± 9.6 %
10012 CAB IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps) 10013 CAB IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN 187 ±96% WLAN 946 ±96%	10105 CAG LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) 10108 CAG LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) 10109 CAG LTE-FDD (SC-FDMA, 100% RB, 10 MHz, US-QMI)	LTE-FDD 5.80 ±9.6%
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 6.56 ± 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, GMSK, TN 0-1) 10025 DAC EDGE-FDD (TDMA, SPSK, TN 0)	GSM 6.56 # 9.6 % GSM 12.62 ± 9.6 %	10112 CAG LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM) 10113 CAG LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD 6.62 ±9.6 %
10027 DAC GPRS-FDD (TDMA, GMSK, TN 0-1-2) 10028 DAC GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM 9.55 ± 9.6 % GSM 4.80 ± 9.6 % GSM 2.55 ± 9.6 %	10114 CAD IEEE 802,11n (HT Greenfield, 13.5 Mbps, 8PSK) 10115 CAD IEEE 802,11n (HT Greenfield, 81 Mbps, 16-QAM)	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 (HT Mixed, 13,5 Mbps, BPSK) 10118 CAD IEEE 802.11n (HT Mixed, 13,5 Mbps, BPSK)	WLAN 8.07 ± 9.6 % WLAN 8.59 ± 9.6 %
10031 CAA IEEE 802.15.1 Bluetooth (GFSK, DHS) 10032 CAA IEEE 802.15.1 Bluetooth (GFSK, DHS) 10033 CAA IEEE 802.15.1 Bluetooth (GFSK, DHS)	Bluetooth 1.87 ± 9.6 % Bluetooth 1.16 ± 9.6 % Bluetooth 7.74 ± 9.6 %	10119 CAD IEEE 802.11n (HT Mxxed, 135 Mbps, 64-QAM) 10140 CAE LTE-FOD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	WLAN
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-FD0 (SC-FDMA 1001/-RB) 3 MHz, GPSK) 10142 CAE LTE-FD0 (SC-FDMA 1001/-RB) 3 MHz, GPSK) 10143 CAE LTE-FD0 (SC-FDMA 1001/-RB) 3 MHz, IS-QAM)	LTE-FOD 5.73 ±9.6 % LTE-FOD 6.35 ±9.6 %
10036 CAA IEEE 802.15.1 Bluetoth (8-DPSK, DH1) 10037 CAA IEEE 802.15.1 Bluetoth (8-DPSK, DH3)	Buetooth 8.01 ± 9.6 % Buetooth 4.77 ± 9.6 % Buetooth 4.10 ± 9.6 %	10144 CAE LTE-FDD (SC-FDMA, 1801), RB, 3 MHz, 64-QAM) 10145 CAF LTE-FDD (SC-FDMA, 1801), RB, 1-4 MHz, QPSK)	LTE-FDD 5.73 ±9.6 % LTE-FDD 6.35 ±9.6 % LTE-FDD 6.65 ±9.6 % LTE-FDD 5.76 ±9.6 % LTE-FDD 6.41 ±9.6 %
10039 CAB CDMA2000 (1xRTT, RC1) 10042 CAB 15-64 /5-136 FD0 (TDMAFDM, PHE-DQPSK, Halfrate)	CDMA2000 4.57 ± 9.6 %	10146 CAF LTE-FDD (SC-FDMA, 100'N RB, 1.4 MHz, 16-QAM) 10147 CAF LTE-FDD (SC-FDMA, 100'N RB, 1.4 MHz, 86-QAM) 10149 CAF LTE-FDD (SC-FDMA, 100'N RB, 30 MHz, 16-QAM)	LTE-FDD 6.65 ±9.6% LTE-FDD 5.76 ±9.6% LTE-FDD 6.41 ±9.6% LTE-FDD 6.42 ±9.6% LTE-FDD 6.42 ±9.6% LTE-FDD 6.60 ±9.6% LTE-FDD 6.60 ±9.6%
10044 CAA IS-91/EIA/TIA-553 FDD (FDMA, FM) 10048 CAA DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	AMPS 0.00 ± 9.6 % DECT 13.80 ± 9.6 %	10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 54-QAM) 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, GPSK)	LTE-FDD 6.60 ±9.6% LTE-TDD 9.28 ±9.6% LTE-TDD 9.92 ±9.6%
10049 CAA DECT (TDD, TDMAPDM, GPSK, Double Stot. 12) 10056 CAA UMTS-TDD (TD-SCDMA, 1.28 Mcps) 10058 DAC EDGE-FDD (TDMA, 8PSK, TN, 0.1.2-3)	Businosis 4 10 = 8 6 % CCRANZOSO 4.57 = 8 6 % AMPS 778 = 8 6 % AMPS 100 = 100 = 18 6 % AMPS 100 = 100 = 18 6 % CCC 100 = 100 = 18 6 % CCC 100 = 100 = 100 % CCC 100 = 100 % CCC 100 = 100 % CCC 100 % C	10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TOD 928 ±96% LTE-TOD 992 ±96% LTE-TOD 10.05 ±96% LTE-FOD 575 ±96%
10059 CAB IEEE 802.11b WIFI 2.4 GHz (DSSS, 2 Mbps) 10060 CAB IEEE 802.11b WIFI 2.4 GHz (DSSS, 5.5 Mbps)	GSM 6.52 ±9.6 % WLAN 2.12 ±9.6 % WLAN 2.83 ±9.6 %	10155 CAG LITE-FDD (SC-FDMA, 50% RB, 10 MHz, 18-QAM) 10156 CAG LITE-FDD (SC-FDMA, 50% RB, 5 MHz, CPSK)	LTE-FDD 6.43 ±9.6 % LTE-FDD 5.79 ±9.6 %
10061 CAB LEEF 802.116 WFI 2.4 GHz (DSSS, 11 Mbps) 10062 CAD LEEF 802.116h WFI 5 GHz (DFDM, 6 Mbps) 10063 CAD LEEF 802.116h WFI 5 GHz (DFDM, 6 Mbps)	VVI.AN 2.83 ± 0.0 % VVI.AN 3.60 ± 0.0 % VVI.AN 6.08 ± 0.0 % VVI.AN 8.63 ± 0.0 % VVI.AN 9.00 ± 0.0 % VVI.AN 9.00 ± 0.0 %	10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD 6.49 ±9.6 % LTE-FDD 6.62 ±9.6 % LTE-FDD 6.56 ±9.6 %
10064 CAD IEEE 802: 11ah WF1 5 GHz (OFDM: 12 Mbps) 10065 CAD IEEE 802:11ah WF1 5 GHz (OFDM: 13 Mbps)		10139 CAG LTE-POD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, GPSK) 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD 6.56 ±9.6 % LTE-FDD 5.82 ±9.6 % LTE-FDD 6.43 ±9.6 %
10066 CAD IEEE 802.11ah WFI 5 GHz (OFDM. 24 Mbps) 10067 CAD IEEE 802.11ah WFI 5 GHz (OFDM. 38 Mbps)	WLAN 9.38 ± 9.6 % WLAN 10.12 ± 9.6 %	10162 CAE LTE-FDO (SC-FDM, 50% RB, 15 MHz, 64-CAM) 10166 CAF LTE-FDO (SC-FDM, 50% RB, 1.4 MHz, QPSK)	LTE-FDD 6.58 ± 9.6 % LTE-FDD 5.46 ± 9.6 %
10069 CAD IEEE 802 11sh WFI 5 GHz (OFDM, 48 Mbps) 10069 CAD IEEE 802 11sh WFI 5 GHz (OFDM, 54 Mbps) 10071 CAB IEEE 802 11sh WFI 2.4 GHz (DSSS)0FDM, 9 Mhnst	WLAN 10.24 ± 9.6 % WLAN 10.56 ± 9.6 % WLAN 9.83 ± 9.6 %	10167 CAF LTE-FOO (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) 10168 CAF LTE-FOO (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) 10168 CAF LTE-FOO (SC-EDMA, 19 QA 20144- QAG)	LTE-FDO 662 996% LTE-FDO 656 1965% LTE-FDO 656 1965% LTE-FDO 643 1965% LTE-FDO 659 1965% LTE-FDO 546 1965% LTE-FDO 621 1986% LTE-FDO 621 1986% LTE-FDO 573 1965% LTE-FDO 573 1965% LTE-FDO 573 1965% LTE-FDO 652 1
10072 CAB IEEE 802.11g WIFI 2.4 GHz (DSSSIOFOM, 12 Mbps) 10073 CAB IEEE 802.11g WIFI 2.4 GHz (DSSSIOFOM, 18 Mbps)	WLAN 9.62 ± 9.6 %	10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-GAM) 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-GAM)	LTE-FDD 6.52 ± 9.6 % LTE-FDD 6.49 ± 9.6 %
1902 CAL EEE 80.11 N Bassen (1976, Chr)	WUANA SIM 10 10 10 10 10 10 10 1	10172 CAG LTE-TDD (SC-FDMA, 1 R8, 20 MHz, QPSK) 10173 CAG LTE-TDD (SC-FDMA, 1 R8, 20 MHz, 16-QAM)	ITEPOD GEZ 996% 1157-00 11
10077 CAB IEEE 802.11g WFr 2.4 GHz (DSSS/OFDM, 54 Mbps) 10081 CAB CDMA2000 (1xRTT, RC3)	WLAM 0.77 8.06% WLAM 19.94 1.26% WLAM 11.00 1.56% WLAMSON 1.77 1.86% CAMP 1.77 1.86% CAMP 1.77 1.86% CAMP 1.77 1.86% WCDM 3.00 1.56% WCDM 3.00 1.56% WCDM 3.00 1.56% WCDM 3.00 1.56%	10175 CAG LTE-FDD (SC-FOMA 1 RB, 10 MHz, OPSK) 10176 CAG LTE-FDD (SC-FOMA 1 RB, 10 MHz, OPSK)	LTE-FDD 5.72 ±9.6 % LTE-FDD 6.52 ±9.6 % LTE-FDD 5.73 ±9.6 %
10082 CAB IS-54 IS-136 FDD (TDMAFDM, PIH-DQPSK, Fulrate) 10090 DAC GPRS-FDD (TDMA, GMSK, TN 0-4) 10091 CAB INTS-EPO (USDBA)	AMPS 4.77 ±9.6 % GSM 0.56 ±9.6 %	10177 CAI LTE-FDD (SC-FDMA, 1 RB, 5 MHz, GPSK) 10178 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-GMM)	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 6.52 ±9.6 % LTE-FDO 6.50 ±9.6 %
10098 CAB UMTS-FDD (HSUPA, Subtest 2) 10099 DAC EDGE-FDD (TDMA, 8PSK, TN 0-4)	WCDMA 3.98 ± 9.6 % GSM 9.55 ± 9.6 %	10190 CAG LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-GMM)	LTE-FDD 6.50 ±9.6 % LTE-FDD 6.50 ±9.6 % LTE-FDD 5.73 ±9.6 %
		Certificate No: CX3-734E_Mar22 Page 12 of 24	
	March 30, 2002		
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	March 30, 2002 TXT-PDD		
	March 30, 2002 TVEPD 5.5		
	March 30, 2022 LTEFED 6.50 1.9.6 %		
	March 30, 2002 LTEFOD 6.53 1.56 % LTEFOD 6.55 1.56 % LTEFOD 6.55 1.56 % LTEFOD 6.55 1.56 % LTEFOD 6.55 1.56 % LTEFOD 6.50 1.56 % LTEFOD 7.50 1.56		
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EX3DV4- SN:7348	64-QAM, 40MHz	Generic	8.54 ± 9.6 %	10489 AAF LTE-TDD (SC-FD	WA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	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	854 ±96 % 823 ±96 % 823 ±96 % 814 ±96 % 819 ±96 % 832 ±96 % 847 ±96 % 840 ±96 %	10490 AAF LTE-TOO (SC-FD 10491 AAE LTE-TOO (SC-FD 10492 AAE LTE-TOO (SC-FD	WA, 50% RB, 10 MHz, 64-QAM, UL, Sub) WA, 50% RB, 15 MHz, QPSK, UL, Sub) WA, 50% RB, 15 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.31 ± 9.6 % 8.54 ± 9.6 % 7.74 ± 9.6 % 8.41 ± 9.6 %
10418 AAA IEEE 802.11g 10419 AAA IEEE 802.11g	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-FD 10494 AAF LTE-TOD (SC-FD	WA, 50% RB, 15 MHz, 64-QAM, UL Sub) WA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	8.55 ± 9.6 % 7.74 ± 9.6 %
10423 AAC IEEE 802.11r 10424 AAC IEEE 802.11r	(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 %	19496 AAF LTE-TOD (SC-FD 19496 AAF LTE-TOD (SC-FD 19497 AAB LTE-TOD (SC-FD	MA, 50% RB, 20 MHz, 64-QAM, UL, Sub) WA, 100% RB, 1.4 MHz, GPSK, UL, Sub)	LTE-TOO LTE-TOO	8.55 ±9.6 % 7.74 ±9.6 % 8.37 ±9.6 % 8.54 ±9.6 % 7.67 ±9.6 %
10425 AAC IEEE 802.11r 10426 AAC IEEE 802.11r 10427 AAC IEEE 802.11r	(HT Greenfield, 15 Mbps, 8PSK) (HT Greenfield, 90 Mbps, 16-QAM) (HT Greenfield, 150 Mbps, 9A-CAM)	WLAN WLAN WLAN	8.41 ±9.6% 8.45 ±9.6% 8.41 ±9.6%	19498 AAB LTE-TDD (SC-FD 19499 AAB LTE-TDD (SC-FD 19500 AAC LTE-TDD (SC-FD	MA, 100% RB, 1.4 MHz, 16-QAM, UL Sub) MA, 100% RB, 1.4 MHz, 64-QAM, UL Sub) MA, 100% RB, 3 MHz, 78007 11 Cub.	LTE-TDD	8.40 ± 9.6 % 8.68 ± 9.6 % 7.67 ± 9.6 %
10430 AAD LTE-FDD (OF 10431 AAD LTE-FDD (OF	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-FD 10502 AAC LTE-TDD (SC-FD	MA. 100% RB. 3 MHz. 16-QAM, UL Sub) MA. 100% RB. 3 MHz. 64-QAM, UL Sub)	LTE-TDD WIJAN WIJAN	8.44 ±9.6 % 8.52 ±9.6 %
10432 AAC LTE-FDD (OF 10433 AAC LTE-FDD (OF 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 9.96 % 8.34 8.96 % 8.00 1.90 % 7.82 1.90 % 7.35 1.90 % 7.35 1.90 % 7.48 1.90 % 7.48 1.90 % 7.49 1.90 % 8.63 1.90 % 8.63 1.90 %	10503 AAF LTE-TDD (SC-FD 10504 AAF LTE-TDD (SC-FD 10505 AAF LTE-TDD (SC-FD	MA, 100% RB, 5 MHz, QPSK, UL Sub) MA, 100% RB, 5 MHz, 16 QAM, UL Sub) MA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD LTE-TDD	7.72 ±9.6% 8.31 ±9.6% 8.54 ±9.6%
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-TOO LTE-FOO	834 896 % 850 296 % 782 296 % 7.56 196 % 7.51 296 % 7.51 296 % 7.51 296 % 7.52 296 % 7.53 296 % 7.53 296 % 7.53 296 % 8.53 296 %	10506 AAF LTE-TDD (SC-FO 10507 AAF LTE-TDD (SC-FO	MA. 100% RB. 10 MHz. QPSK, UL Sub) MA. 100% RB. 10 MHz. 18-QAM, UL Sub)	LTE-TDO	7.74 ±9.6% 8.36 ±9.6%
10449 AAC LTE-FDD (OF 10450 AAC LTE-FDD (OF	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-TDD (SC-FD 10510 AAE LTE-TDD (SC-FD	MA, 100% RB, 15 MHz, QPSK, UL S(b) MA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD LTE-TDD	7.99 ± 9.6 % 8.49 ± 9.6 %
10451 AAA W-COMA (85 10453 AAD Validation (50 10456 AAC IEEE 802.11a	rest Model 1, 64 DPCH, Capping 44W) µane, 10ms, 1ms) c WIFF (160MHz, 64-QAM, 99pc dc)	Test WLAN	10.00 ±9.6 % 8.63 ±9.6 %	10512 AAF LTE-TDD (SC-FD 10513 AAF LTE-TDD (SC-FD	MA, 100% RB, 15 MHz, 64-QAM, UL Sub) MA, 100% RB, 20 MHz, QPSK, UL Sub) MA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDO LTE-TDO	7.74 ±96% 8.42 ±96%
10457 AAA UMTS-FDD (10458 AAA CDMA3000 (10459 AAA CDMA3000 (DC-HSDPA) IxEV-DO, Rev. B, 2 carriers) IxEV-DO, Rev. B, 3 carriers)	WCDMA LTE-FDD LTE-FDD LTE-FDD LTE-FDD LTE-FDD WCDMA Test WLAN WCDMA CDMA2000 CDMA2000 WCDMA	6.52 ± 9.6 % 6.55 ± 9.6 % 8.25 ± 9.6 %	10514 AAF LTE-TDD (SC-FD 10515 AAA EEE 802.11b WI 10516 AAA EEE 802.11b WI	MA. 100% RB. 20 MHz. 64-QAM, UL Sub) 1 2.4 GHz (DSSS, 2 Mbps, 99pc dc) 1 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN WI AN	8.64 ±9.6% 7.72 ±3.6% 8.54 ±3.6% 8.55 ±3.6% 8.55 ±9.6% 8.55 ±9.6% 8.55 ±9.6% 8.51 ±9.6% 8.51 ±9.6% 8.51 ±9.6% 8.51 ±9.6% 8.51 ±9.6% 8.52 ±9.6% 8.53 ±9.6% 8.53 ±9.6% 8.53 ±9.6% 8.53 ±9.6% 8.53 ±9.6% 8.53 ±9.6%
10460 AAA UMTS-FDD (10461 AAB LTE-TDD (SC	ACDMA, AMR) -FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	WCDMA LTE-TDD LTE-TDD LTE-TDD LTE-TDD LTE-TDD	7.82 ± 9.6 %	10517 AAA IEEE 802.11b WI 10518 AAC IEEE 802.11ah V	9 2.4 GHz (DSSS, 11 Mbps, 99pc dc) (Fi 5 GHz (DFDM, 9 Mbps, 99pc dc)	WLAN	823 +96%
10463 AAB LTE-TDD (SC 10464 AAC LTE-TDD (SC	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 V 10521 AAC IEEE 802.11ah V	FFI 5 GHz (OFDM, 12 Mbps, 98pc dc) FFI 5 GHz (OFDM, 18 Mbps, 98pc dc) FFI 5 GHz (OFDM, 24 Mbps, 98pc dc)	WLAN WLAN	8.39 ±9.6% 8.12 ±9.6% 7.97 ±9.6%
10465 AAC LTE-TDD (SC 10466 AAC LTE-TDD (SC 10467 AAF LTE-TDD (SC	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-TDO LTE-TDO	8.32 ± 9.6 % 8.57 ± 9.6 % 7.82 ± 9.6 %	10522 AAC IEEE 802.11ah V 10523 AAC IEEE 802.11ah V 10524 AAC IEEE 802.11ah V	NFI 5 GHz (DFDM, 36 Mbps, 99pc dc) NFI 5 GHz (DFDM, 48 Mbps, 99pc dc) NFI 5 GHz (DFDM, 54 Mbps, 99pc dc)	WLAN WLAN WLAN	845 ±96% 808 ±96% 827 ±96%
10468 AAF LTE-TDD (SC 10469 AAF LTE-TDD (SC 10470 AAF LTE-TDD (SC	-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 ± 9.6 % 8.56 ± 9.6 %	10525 AAC IEEE 802.11ac W 10526 AAC IEEE 802.11ac W 10527 AAC IEEE 802.11ac W	Fi (20MHz, MCS0, 99pc dc) Fi (20MHz, MCS1, 99pc dc)	WLAN WLAN	8.36 ±9.6% 8.42 ±9.6%
10471 AAF LTE-TOD (SO 10472 AAF LTE-TOD (SO	FDMA 1 RB. 10 MHz. 16-QAM, UL Sub) FDMA 1 RB. 10 MHz. 64-QAM, UL Sub)	LTE-TDO LTE-TDO LTE-TDO	8.32 ± 9.6 % 8.57 ± 9.6 %	10528 AAC EEE 802.11ac W 10529 AAC EEE 802.11ac W	FI (20MHz, MCS3, 99pc dc) FI (20MHz, MCS4, 99pc dc)	WLAN WLAN	8.36 ±9.6% 8.36 ±9.6%
10474 AAE LTE-TDD (SC 10474 AAE LTE-TDD (SC 10475 AAE LTE-TDD (SC	-FDMA, 1 RB, 15 MHz, QPSK, 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 ±9.6 % 8.56 ±9.6 % 7.82 ±9.6 % 8.32 ±9.6 % 8.57 ±9.6 % 7.82 ±9.6 % 8.57 ±9.6 % 8.57 ±9.6 % 8.57 ±9.6 %	10531 AAC IEEE 802.11ac W 10532 AAC IEEE 802.11ac W 10533 AAC IEEE 802.11ac W	FI (20MHz, MCS6, 99pc dc) FI (20MHz, MCS7, 98pc dc) FI (20MHz, MCS8, 99pc dc)	WLAN WLAN WLAN	845 ±96% 808 ±96% 827 ±96% 836 ±96% 836 ±96% 841 ±96% 836 ±96% 836 ±96% 843 ±96% 843 ±96% 843 ±96% 843 ±96% 843 ±96%
10477 AAF LTE-TOD (SO 10478 AAF LTE-TOD (SO 10479 AAB LTE-TOD (SO	-FDMA, 1 RB, 20 MHz, 16-QAM, UI, Sub) -FDMA, 1 RB, 20 MHz, 64-QAM, UI, Sub) -FDMA, 50% RB, 1.4 MHz, QPSK, UI, Sub)	LTE-TOO LTE-TOO	8.32 ± 9.6 % 8.57 ± 9.6 % 7.74 ± 9.6 %	10534 AAC IEEE 802.11ac W 10535 AAC IEEE 802.11ac W 10536 AAC IEEE 802.11ac W	Fi (40MHz, MCS0, 98pc do) Fi (40MHz, MCS1, 98pc do) Fi (40MHz, MCS2, 98pc do)	WILAN	8.45 ± 9.6 % 8.45 ± 9.6 % 8.32 ± 9.6 %
10480 AAB LTE-TDD (SO 10481 AAB LTE-TDD (SO 10482 AAC LTE-TDD (SO	64 CMA, CROTE, 64 CMA, CROTE, WIN 2.4 CM CUSSS 1 Mayes, Right etc.	LTE-TOO LTE-TOO	8.18 ± 9.6 % 8.45 ± 9.6 %	10537 AAC IEEE 802.11ac W 10538 AAC IEEE 802.11ac W 10540 AAC IEEE 802.11ac W	AN DOOR THE VIOLEN IS DANS LIKE AND	WLAN WLAN	827 296% 838 196% 821 256% 821 256% 823 256% 836 256% 837 256% 838 256% 839 296% 838 256% 845 256% 845 256% 846 25
10483 AAC LTE-TDD (SC 10484 AAC LTE-TDD (SC	FDMA, 50% RB, 3 MHz. 16-QAM, Sub) -FDMA, 50% RB, 3 MHz. 64-QAM, UL Sub)	LTE-TOD LTE-TOD LTE-TOD LTE-TOD LTE-TOD	7.71 ± 9.6 % 8.39 ± 9.6 % 8.47 ± 9.6 %	10541 AAC IEEE 802.11ac W 10542 AAC IEEE 802.11ac W	Fi (40MHz, MCS7, 98pc dc) Fi (40MHz, MCS8, 98pc dc)	WLAN WLAN WLAN	8.39 ±9.6% 8.46 ±9.6% 8.65 ±9.6%
10485 AAF LTE-TDD (SO 10487 AAF LTE-TDD (SO 10487 AAF LTE-TDD (SO	FDMA, 50% RB, 5 MHz, QPSK, UL Sub) FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub) FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TOD LTE-TOD	7.59 ±9.6 % 8.38 ±9.6 % 8.60 ±9.6 % 7.70 ±9.6 %	10543 AAC REE 802.11ac W 10544 AAC REE 802.11ac W 10545 AAC REE 802.11ac W	FI (40MHz, MCS9, 98pc dc) FI (80MHz, MCS0, 98pc dc) FI (80MHz, MCS1, 99pc dc)	WLAN WLAN	8.65 ± 9.6 % 8.47 ± 9.6 % 8.55 ± 9.6 %
		LTE-TOD	1137 1337.0			WLAN	8.35 ± 9.6 %
			March 30, 2022 8.89 19 6 % 8.37 49 6 % 8.39 18 6 % 8.39 18 6 % 8.40 19 6 % 8.42 19 6 % 8.45 19 6 %			WLAN WLAN WLAN WLAN WLAN WLAN	March 30, 2022 8.97
			8.49 1.96 % 8.57 1.96 % 8.58 1.96 % 8.59 1.96 % 8.62 1.96 % 8.62 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 %			WILAN	0.97
			8.49 1.96 % 8.57 1.96 % 8.58 1.96 % 8.59 1.96 % 8.62 1.96 % 8.62 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 %			WILAN	0.97
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			8.49 1.96 % 8.57 1.96 % 8.58 1.96 % 8.59 1.96 % 8.62 1.96 % 8.62 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 %			WILAN	0.97 1.06 % 0.66 % 0.66 % 0.66 % 0.66 % 0.66 % 0.67 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 %
			8.49 1.96 % 8.57 1.96 % 8.58 1.96 % 8.59 1.96 % 8.62 1.96 % 8.62 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 %			WILAN	0.97 1.06 % 0.66 % 0.66 % 0.66 % 0.66 % 0.66 % 0.67 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 %
			8.49 1.96 % 8.57 1.96 % 8.58 1.96 % 8.59 1.96 % 8.62 1.96 % 8.62 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 % 8.63 1.96 %			WILAN	0.97 1.06 % 0.66 % 0.66 % 0.66 % 0.66 % 0.66 % 0.67 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 1.06 % 0.68 %
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			189 189 5 237 189 5 239 189 5 240 189 5			WILAN	10 10 10 10 10 10 10 10
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10673 AAC IEEE 802 11ax (20MHz, MCS2, 90pc dc) 10674 AAC IEEE 802 11ax (20MHz, MCS3, 90pc dc)	WLAN 8.78 ±9.6% WLAN 8.74 ±9.6%	10729 AAC IEEE 802.11ax (80MHz, MCS10, 90pc dc) WLAN 10730 AAC IEEE 802.11ax (80MHz, MCS11, 90pc dc) WLAN	8.64 ± 9.6 % 8.67 ± 9.6 %
10674 AAC IEEE 802.11sx (20MHz, MCS3, 90pc dc) 10675 AAC IEEE 802.11sx (20MHz, MCS4, 90pc dc) 10676 AAC IEEE 802.11sx (20MHz, MCS5, 90pc dc)	WLAN 8.74 ± 9.6 % WLAN 8.90 ± 9.6 % WLAN 8.77 ± 9.6 %	10730 AAC	8.67 ±9.6 % 8.42 ±9.6 %
10676 AAC IEEE 802 118x (20MHz, MCS6, 90pc dc) 10678 AAC IEEE 802 118x (20MHz, MCS7, 90pc dc)	WLAN 8.73 ±9.6%	10733 AAC IEEE 802 15ax (80MHz MCS2 90ec dc) WLAN	8.46 ± 9.6 % 8.40 ± 9.6 %
10678 AAC IEEE 802.11ax (20MHz, MCS7, 90pc dc) 10679 AAC IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN 8.78 ±9.6% WLAN 8.89 ±9.6%	10734 AAC IEEE 802.11ss (80MHz, MCSA, 89pc dc) WLAN 10755 AAC IEEE 807.11ss (80MHz, MCSA, 89pc dc) WLAN 10756 AAC IEEE 807.11ss (80MHz, MCSA, 89pc dc) WLAN 10756 AAC IEEE 807.11ss (80MHz, MCSA, 89pc dc) WLAN WLAN 10756 AAC IEEE 807.11ss (80MHz, MCSA, 89pc dc)	8.25 ±9.6% 8.33 ±9.6%
10679 AAC IEEE 802.11ax (20MHz, MCS8, 90pc dc) 10680 AAC IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN 8.80 ±9.6 % WLAN 8.62 ±9.6 %	10736 AAC IEEE 802.11ss (80MHz, MCS6, 99p.0 dc) WLAN 10737 AAC IEEE 802.11ss (80MHz, MCS6, 99p.0 dc) WLAN	8.27 ± 9.6 %
10681 AAC IEEE 802 11ax (20MHz, MCS11, 98pc dc) 10682 AAC IEEE 802 11ax (20MHz, MCS11, 90pc dc) 10682 AAC IEEE 802 11ax (20MHz, MCS11, 90pc dc) 10683 AAC IEEE 802 11ax (20MHz, MCS11, 99pc dc) 10684 AAC IEEE 802 11ax (20MHz, MCS1, 99pc dc)	WLAN 8.83 ±9.6%	10738 AAC IEEE 802 11ax (80MHz, MCS7, 99pc dc) WILAN	8.36 ±9.6% 8.42 ±9.6%
10683 AAC IEEE 802.11ax (20MHz, MCS0, 99pc dc) 10684 AAC IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN 842 ±96% WLAN 826 ±96%	10739 AAC IEEE 802.11ax (80MHz, MCS8, 99pc dc) VILAN 10740 AAC IEEE 802.11ax (80MHz, MCS9, 99pc dc) VILAN	8.29 ± 9.6 % 8.48 ± 9.6 %
10885 AAC IEEE 802.11ax (20MHz, MCS2, 98pc dc)	WLAN 8.33 ± 9.6 % WLAN 8.28 ± 9.6 %	10741 AAC IEEE 802.11ax (80MHz, MCS10, 99pc dc) WLAN 10742 AAC IEEE 802.11ax (80MHz, MCS11, 99pc dc) WLAN	8.40 ±9.6% 8.43 ±9.6%
10895 AAC	WLAN 8.45 ±9.6%		8.94 ±9.6%
10688 AAC IEEE 802.11ax (20MHz, MCSS, 99pc dc) 10689 AAC IEEE 802.11ax (20MHz, MCSS, 99pc dc)	WLAN 8.29 ± 9.6 % WLAN 8.55 ± 9.6 %	10744 AAC IEEE 802, 11sx (160MHz, MCS1, 95p. dc) WLAN 10745 AAC IEEE 802, 11sx (160MHz, MCS2, 95p. dc) WLAN	9.16 ± 9.6 % 8.93 ± 9.6 %
10690 AAC IEEE 802.11ax (20MHz, MCS7, 99pc dc) 10691 AAC IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN 8.29 ± 9.6 % WLAN 8.25 ± 9.6 %	10746 AAC IEEE 802,11ax (160MHz, MCS3, 85pc dc) WLAN 10747 AAC IEEE 802,11ax (160MHz, MCS4, 85pc dc) WLAN	9.11 ±9.6% 9.04 ±9.6%
10692 AAC IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WIAN 8.29 ±9.6%	10748 AAC IEEE 802.11ax (160MHz, MCS5, 90pc dc) WLAN	8.93 ± 9.6 %
10692 AAC IEEE 802.11ax (20MHz, MCS9, 90pc dc) 10693 AAC IEEE 802.11ax (20MHz, MCS10, 90pc dc) 10694 AAC IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN 825 ±9.6 % WLAN 8.57 ±9.6 %	10749 AAC IEEE 802.11ax (160MHz, MC96, 90pc dc) WLAN 10750 AAC IEEE 802.11ax (160MHz, MC97, 90pc dc) WLAN	8.90 ±9.6% 8.79 ±9.6%
10695 AAC IEEE 802.11ax (40MHz, MCS0, 90pc do) 10696 AAC IEEE 802.11ax (40MHz, MCS1, 90pc do)	WLAN 8.78 ±9.6 % WLAN 8.91 ±9.6 %	10751 AAC IEEE 802,11ax (160MHz, MCS8, 90pc dc) WLAN 10752 AAC IEEE 802,11ax (160MHz, MCS9, 90pc dc) WLAN	8.79 ±9.6% 8.82 ±9.6% 8.81 ±9.6%
10697 AAC IEEE 802 11ax (40MHz, MCS2, 90pc dc) 10698 AAC IEEE 802 11ax (40MHz, MCS2, 90pc dc)	WLAN 8.61 ±9.6 %	10753 AAG IEEE 802.11ax (160MHz, MCS10, 90pc dc) WLAN	9.00 ±9.6%
10698 AAC IEEE 802.11ax (40MHz, MCS3, 90pc dc) 10699 AAC IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WIAN 8.91 8.96 % WIAN 8.89 1.96 % WIAN 8.89 1.96 % WIAN 8.89 1.96 % WIAN 8.82 1.96 % WIAN 8.73 1.96 %	10754 AAC IEEE 802.11ax (160MHz, MCS11, 90pc dc) WLAN 10755 AAC IEEE 802.11ax (160MHz, MCS0, 99pc dc) WLAN	8.94 ±9.6%
10099 AAC IEEE 802.11ax (40MHz, MCS4, 90pc 6c) 10700 AAC IEEE 802.11ax (40MHz, MCS5, 90pc 6c) 10701 AAC IEEE 802.11ax (40MHz, MCS6, 90pc 6c)	WLAN 8.73 ±9.6% WLAN 8.86 ±9.6%	10756 AAC IEEE 802.11ss (160MHz MCS1 99sc dc) WLAN	
10702 AAC IEEE 802.11ax (40MHz, MCS7, 90pc do)	WLAN 8.70 ± 9.6 %	10758 AAC (EEE 802.11ax (180MHz, MCS3.99o; dc) WLAN	877 ±9.6 % 8.69 ±9.6 %
10703 AAC IEEE 802 11ax (40MHz, MCS8, 90pc dc)		10759 AAC IEEE 802 11ss (160MHz, MCS4, 98pc dc) WILAN 10760 AAC IEEE 802 11ss (160MHz, MCS4, 98pc dc) WILAN 10760 AAC IEEE 802 11ss (160MHz, MCS6, 98pc dc) WILAN 10761 AAC IEEE 802 11ss (160MHz, MCS6, 98pc dc) WILAN	8.58 ± 9.6 % 8.49 ± 9.6 %
10704 AAC IEEE 802.11ax (40NHz, MC89, 90pc dc) 10705 AAC IEEE 802.11ax (40NHz, MCS10, 90pc dc) 10706 AAC IEEE 802.11ax (40NHz, MCS11, 90pc dc)	WIAN 869 +96%	10761 AAC IEEE 802.11ax (160MHz, MCS6, 99pc dc) WLAN 10762 AAC IEEE 872.11ax (160MHz, MCS6, 99pc dc) WLAN	
10706 AAC IEEE 802.11ax (40MHz, MCS11, 90pc dc) 10707 AAC IEEE 802.11ax (40MHz, MCS0, 98pc dc)	WLAN 8.32 ± 9.6 %	10762 AAC IEEE 802.11ax (160MHz, MCS7, 99pc dc) VVLAN 10763 AAC IEEE 802.11ax (160MHz, MCS8, 98pc dc) WLAN	8.49 ±9.6 % 8.53 ±9.6 %
10708 AAC IEEE 802.11ax (40MHz, MCS1, 98pc dc) 10709 AAC IEEE 802.11ax (40MHz, MCS2, 98pc dc) 10710 AAC IEEE 802.11ax (40MHz, MCS3, 98pc dc)	WLAN 8.55 ± 9.6 % WLAN 8.33 ± 9.6 %	1997 AAC 1888 00.11 18 19 19 19 19 19 19 19 19 19 19 19 19 19	8.54 ± 9.6 % 8.54 ± 9.6 %
10710 AAC IEEE 802.11ax (40MHz, MCS3, 99pc do) 10711 AAC IEEE 802.11ax (40MHz, MCS4, 99pc do)		10766 AAC IEEE 802.11ax (160MHz, MCS11, 89pc dc) WLAN 10767 AAE 50 NB (CR.OFDM 1 88, 5 MHz, OPSK 15 MHz) 50 NB (
10711 AAC IEEE 802.11ax (40MHz, MCS4, 99bc dc) 10712 AAC IEEE 802.11ax (40MHz, MCS6, 99bc dc) 10713 AAC IEEE 802.11ax (40MHz, MCS6, 99bc dc)	WLAN 8.67 ±9.6 %	10767 AAE 50 NR (CP-0FDM, 1 RB, 5 MHz, DPSK, 15 kHz) 50 NR 1 10768 AAD 50 NR (CP-0FDM, 1 RB, 10 MHz, QPSK, 15 kHz) 50 NR 1 10768 AAD 50 NR (CP-0FDM, 1 RB, 10 MHz, QPSK, 15 kHz) 50 NR 1	851 ±96 % FRI TDD 7-99 ±9.6 % FRI TDD 8.01 ±9.6 % FRI TDD 8.02 ±9.6 % FRI TDD 8.02 ±9.6 % FRI TDD 8.03 ±9.6 % FRI TDD 8.03 ±9.6 % FRI TDD 8.03 ±9.6 %
10714 AAC IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN 8.33 ±9.6 % WLAN 8.26 ±9.6 %	30 MIN (200 AM) 10 MIN (200 CHO 11 MIN 10 MIN (200 CHO 11 MIN 10 MIN (200 CHO 11 MIN 10 MIN 10 MIN 10 MIN 10 MIN 10 MIN 10 MIN (200 CHO 11 MIN 10 MIN	FR1 TDD 8.01 ± 9.6 % FR1 TDD 8.02 ± 9.6 %
10715 AAC IEEE 802.11ax (46MHz, MCS8, 99pc dc) 10716 AAC IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN 8.45 ±9.6 % WLAN 8.30 ±9.6 %	10771 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz; OPSK, 15 KHz) 5G NR 10772 AAD 5G NR (CP-OFDM, 1 RB, 25 MHz; OPSK, 15 KHz) 5G NR	FR1 TDD 8.02 ± 9.6 %
10717 AAC IEEE 802.11ax (40MHz, MCS10, 99pc do)	WLAN 8.48 ± 9.6 %	10773 AAD 5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz) 5G NR	FRITDD 8.03 ±9.6 % FRITDD 8.02 ±9.6 % FRITDD 8.31 ±9.6 % FRITDD 8.30 ±9.6 % FRITDD 8.30 ±9.6 %
10717 AAC IEEE 802.11ax (40MHz, MCS10, 98pc dc) 10718 AAC IEEE 802.11ax (40MHz, MCS11, 98pc dc) 10719 AAC IEEE 802.11ax (80MHz, MCS0, 90pc dc)		10774 AAD SG NR (CP-0FDM, 1 R8, 50 MHz, QPSK, 15 KHz) SG NR (10775 AAD SG NR (CP-0FDM, 50% R8, 5 MHz, QPSK, 15 KHz) SG NR (FR1 TDD 8.02 ±9.6 % FR1 TDD 8.31 ±9.6 %
10720 AAC IEEE 802.11ax (80MHz, MCS1, 90pc dc) 10721 AAC IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN 8.87 ± 9.6 % WLAN 8.76 ± 9.6 %	10776 AAD 50 NR (CP-0FDM, 50% RB, 10 MHz, QPSK, 15 MHz) 50 NR 10777 AAC 5G NR (CP-0FDM, 50% RB, 15 MHz, QPSK, 15 MHz) 5G NR (CP-0FDM, 50% RB, 15 MHz, QPSK, 15 MHz)	FR1 TDD 8:30 ± 9.6 %
10722 AAC IEEE 802.11ax (80MHz, MCS3, 90pc dc) 10723 AAC IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN 8.55 ± 9.6 % WLAN 8.70 ± 9.6 %	10778 AAD SG NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz) SG NR 10779 AAC SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz) SG NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	FR1 TDD 8.34 ±9.6 % FR1 TDD 8.42 ±9.6 %
10724 AAC IEEE 802.11ax (80MHz, MCSS, 90pc dc)		10779 AAC 5G NR (CP-CPGM, 50% RB, 25 MHz, GPSK, 15 kHz) 5G NR (10780 AAD 5G NR (CP-CPGM, 50% RB, 30 MHz, GPSK, 15 kHz) 5G NR (FR1 TDD 8.38 ±9.6%
10724 AAC IEEE 802.11ax (80MHz, MCSS, 90pc dc) 10725 AAC IEEE 802.11ax (80MHz, MCS6, 90pc dc) 10726 AAC IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN 8.74 ± 9.6 % WLAN 8.72 ± 9.6 %	10781 AAD 50 NR (CP-OFDM, 50% RB, 40 MHz, QFSK, 15 MHz) 50 NR 10782 AAD 50 NR (CP-OFDM, 50% RB, 50 MHz, QFSK, 15 MHz) 50 NR (CP-OFDM, 50% RB, 50 MHz, QFSK, 15	FR1 TDD 8.38 ±9.6 % FR1 TDD 8.38 ±9.6 % FR1 TDD 8.43 ±9.6 %
10727 AAC IEEE 802.11(xx (80MHz, MCS8, 90pc do) 10728 AAC IEEE 802.11(xx (80MHz, MCS9, 90pc do)	WLAN 8.66 ±9.6 % WLAN 8.65 ±9.6 %	10780 AAE 5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz) 5G NR 10784 AAD 5G NR (CP-OFDM, 100% RB, 10 kHz, QPSK, 15 kHz) 5G NR	FR1 TDD 8.31 ±9.6% FR1 TDD 8.29 ±9.6%
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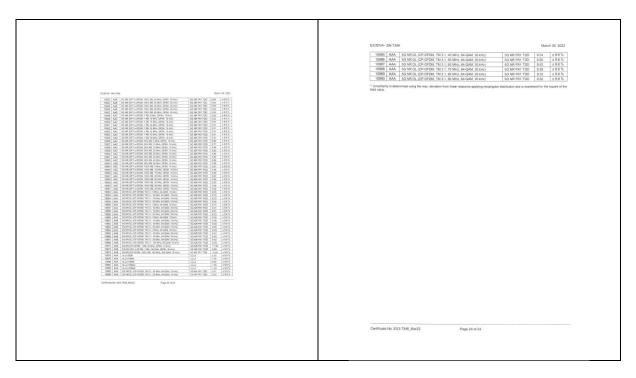
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4 Impedance and return loss

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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