



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Carrier Power					
PXA Signal Analyzer	Keysight	N9030A	BAMS-1001562403	12	14-Jan-2022
Network Analyzer (10MHz to 40 GHz)	Agilent Technologies	N5230A	BAMS-1000635869	12	07-Apr-2022
Ecal Module	Agilent	N4690-60006	BAMS-1000235612	12	30-Jun-2021
Network Analyzer (10MHz to 20GHz)	Agilent Technologies	N5230A	S/N: MY45000737	12	13-Apr-2022
Hygrometer	Rotronic	A1	TE2760	12	12-Jun-2022
Power Supply	Delta Elektronika	SM 52-30	BAMS-1000077230	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QM935	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QC181	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	004	-	O/P Mon
Attenuator 10 dB	Wainwright	56-10	T3515	-	O/P Mon
High Pass Filter	Wainwright Instruments	WHNX3.8/2 6.5G	D-82346	-	O/P Mon
CCDF - PAR					
PXA Signal Analyzer	Keysight	N9030A	BAMS-1001562403	12	14-Jan-2022
Network Analyzer (10MHz to 40 GHz)	Agilent Technologies	N5230A	BAMS-1000635869	12	07-Apr-2022
Ecal Module	Agilent	N4690-60006	BAMS-1000235612	12	30-Jun-2021
Network Analyzer (10MHz to 20GHz)	Agilent Technologies	N5230A	S/N: MY45000737	12	13-Apr-2022
Hygrometer	Rotronic	A1	TE2760	12	12-Jun-2022
Power Supply	Delta Elektronika	SM 52-30	BAMS-1000077230	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QM935	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QC181	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	004	-	O/P Mon
Attenuator 10 dB	Wainwright	56-10	T3515	-	O/P Mon
High Pass Filter	Wainwright Instruments	WHNX3.8/2 6.5G	D-82346	-	O/P Mon
PSD - Av					
PXA Signal Analyzer	Keysight	N9030A	BAMS-1001562403	12	14-Jan-2022
Network Analyzer (10MHz to 40 GHz)	Agilent Technologies	N5230A	BAMS-1000635869	12	07-Apr-2022
Ecal Module	Agilent	N4690-60006	BAMS-1000235612	12	30-Jun-2021
Network Analyzer (10MHz to 20GHz)	Agilent Technologies	N5230A	S/N: MY45000737	12	13-Apr-2022
Hygrometer	Rotronic	A1	TE2760	12	12-Jun-2022
Power Supply	Delta Elektronika	SM 52-30	BAMS-1000077230	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QM935	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QC181	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	004	-	O/P Mon



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Attenuator 10 dB	Wainwright	56-10	T3515	-	O/P Mon
High Pass Filter	Wainwright Instruments	WHNX3.8/26.5 G	D-82346	-	O/P Mon
OBW / 99% resp 26dB BW - Pk					
PXA Signal Analyzer	Keysight	N9030A	BAMS-1001562403	12	14-Jan-2022
Network Analyzer (10MHz to 40 GHz)	Agilent Technologies	N5230A	BAMS-1000635869	12	07-Apr-2022
Ecal Module	Agilent	N4690-60006	BAMS-1000235612	12	30-Jun-2021
Network Analyzer (10MHz to 20GHz)	Agilent Technologies	N5230A	S/N: MY45000737	12	13-Apr-2022
Hygrometer	Rotronic	A1	TE2760	12	12-Jun-2022
Power Supply	Delta Elektronika	SM 52-30	BAMS-1000077230	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QM935	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QC181	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	004	-	O/P Mon
Attenuator 10 dB	Wainwright	56-10	T3515	-	O/P Mon
High Pass Filter	Wainwright Instruments	WHNX3.8/26.5 G	D-82346	-	O/P Mon
Band Edge					
PXA Signal Analyzer	Keysight	N9030A	BAMS-1001562403	12	14-Jan-2022
Network Analyzer (10MHz to 40 GHz)	Agilent Technologies	N5230A	BAMS-1000635869	12	07-Apr-2022
Ecal Module	Agilent	N4690-60006	BAMS-1000235612	12	30-Jun-2021
Network Analyzer (10MHz to 20GHz)	Agilent Technologies	N5230A	S/N: MY45000737	12	13-Apr-2022
Hygrometer	Rotronic	A1	TE2760	12	12-Jun-2022
Power Supply	Delta Elektronika	SM 52-30	BAMS-1000077230	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QM935	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QC181	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	004	-	O/P Mon
Attenuator 10 dB	Wainwright	56-10	T3515	-	O/P Mon
High Pass Filter	Wainwright Instruments	WHNX3.8/26.5 G	D-82346	-	O/P Mon
Spurious Emissions					
PXA Signal Analyzer	Keysight	N9030A	BAMS-1001562403	12	14-Jan-2022
Network Analyzer (10MHz to 40 GHz)	Agilent Technologies	N5230A	BAMS-1000635869	12	07-Apr-2022
Ecal Module	Agilent	N4690-60006	BAMS-1000235612	12	30-Jun-2021
Network Analyzer (10MHz to 20GHz)	Agilent Technologies	N5230A	S/N: MY45000737	12	13-Apr-2022
Hygrometer	Rotronic	A1	TE2760	12	12-Jun-2022
Power Supply	Delta Elektronika	SM 52-30	BAMS-1000077230	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QM935	-	O/P Mon
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	QC181	-	O/P Mon



Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Due
Attenuator 20 dB	Aeroflex / Weinschel	6834-20-11	004	-	O/P Mon
Attenuator 10 dB	Wainwright	56-10	T3515	-	O/P Mon
High Pass Filter	Wainwright Instruments	WHNX3.8/26.5G	D-82346	-	O/P Mon

N/A – Not Applicable

O/P Mon – Output Monitored with Calibrated Equipment

List of measurement software versions used for testing.

Instrument	Manufacturer	Type No.	TE No.	Software Version
PXA Signal Analyser	Keysight	N9030A	BAMS1001562403	A.19.05
HP-VEE Software	TUV SUD	HP_VEE	N/A	V3.27



3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:-

Test Discipline	Frequency / Parameter	MU	
Conducted Maximum Peak Output Power	30 MHz to 20 GHz Amplitude	± 0.89 dB	
Conducted Emissions	30 MHz to 20 GHz Amplitude	± 1.81dB	
Occupied Bandwidth	Up to 20 MHz Bandwidth	10 MHz Bandwidth	±67172 Hz
		15MHz Bandwidth	±353784 Hz
		20 MHz Bandwidth	±145903 Hz
Band Edge	30 MHz to 20 GHz Amplitude	±0.89dB	

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.



SECTION 4

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



4.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT



Accred. no. 10363
Testing
ISO/IEC 17025

This report relates only to the actual item/items tested.

Our Swedac Accreditation does not cover opinions and interpretations and any expressed are outside the scope of our Swedac Accreditation.

Results of tests not covered by our Swedac Accreditation Schedule are marked NSA (Not Swedac Accredited).

© 2021 TÜV SÜD
Sverige

Postal Address: Djäknegatan 31, 211 35, Malmö, Sweden



ANNEX A

MODULE LIST



Configuration 1			
Product	Product No	R-State	Serial No
CT10	LPC102487/1	R1C	T01F307250
RRUS 32 B4A B2P	KRC 118 050/1	R1C	C828422384
Software Version:	CXP9013268/12	Revision:	R82CM