

Quality Test Report

GENERAL PARAMETERS	UNIT	VALUE
air humidity	%	4
room temperature	°C	21
integration time	ms	30
laser central wavelength	nm	800
laser bandwidth	nm	15
laser pulse duration	fs	100

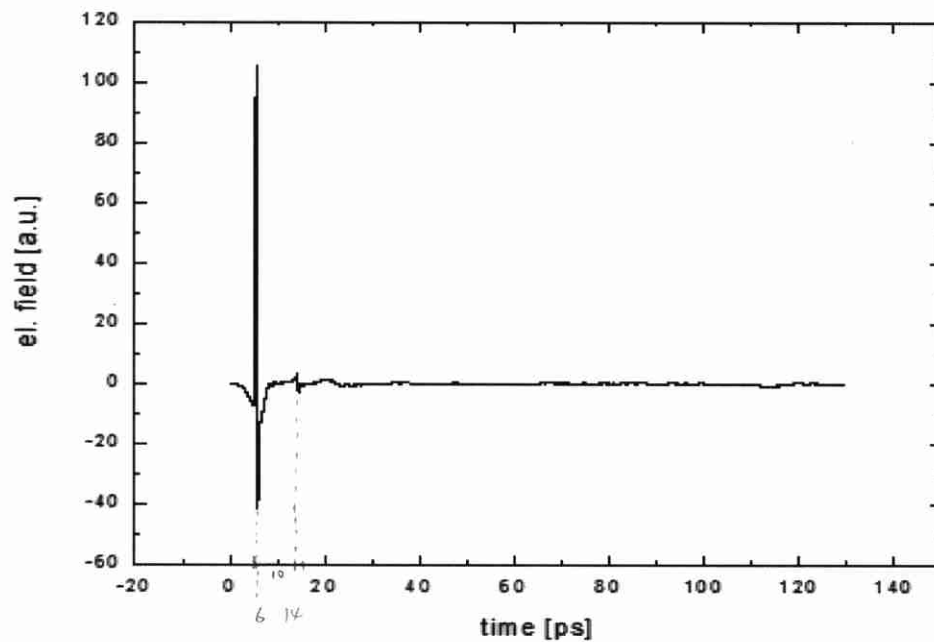
THZ-EMITTER SPECIFICATIONS	UNIT	VALUE
optical power	mW	10
applied voltage	V	30
modulation frequency	KHz	1,034
antenna structure		dipole spiral
wire distance	µm	20

THZ-DETECTOR SPECIFICATIONS	UNIT	VALUE
optical power	mW	10
antenna structure		dipole spiral
wire distance	µm	20
gapsize	µm	5
dark current @ 30 V dc	µA	0,2
photocurrent @ 30 V dc	µA	42,8
used sample		1130019

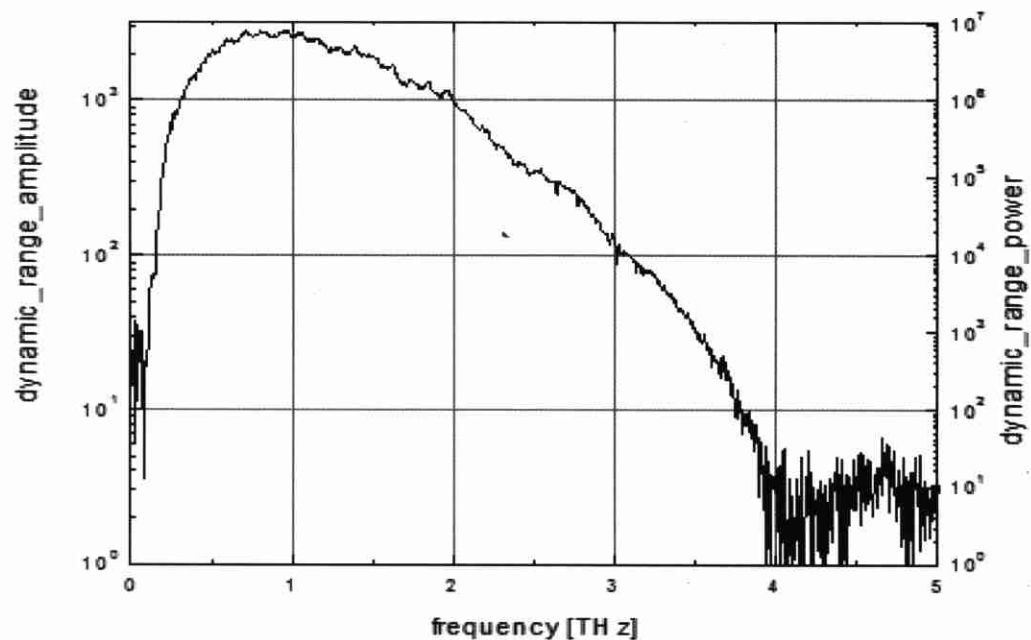
The tolerance for all values is less than +-10% for the used setup.

Quality Test Report

waveform of the THz-pulse



spectral dynamic range of the THz-pulse



The presented results depend strongly by the used setup and the alignment.

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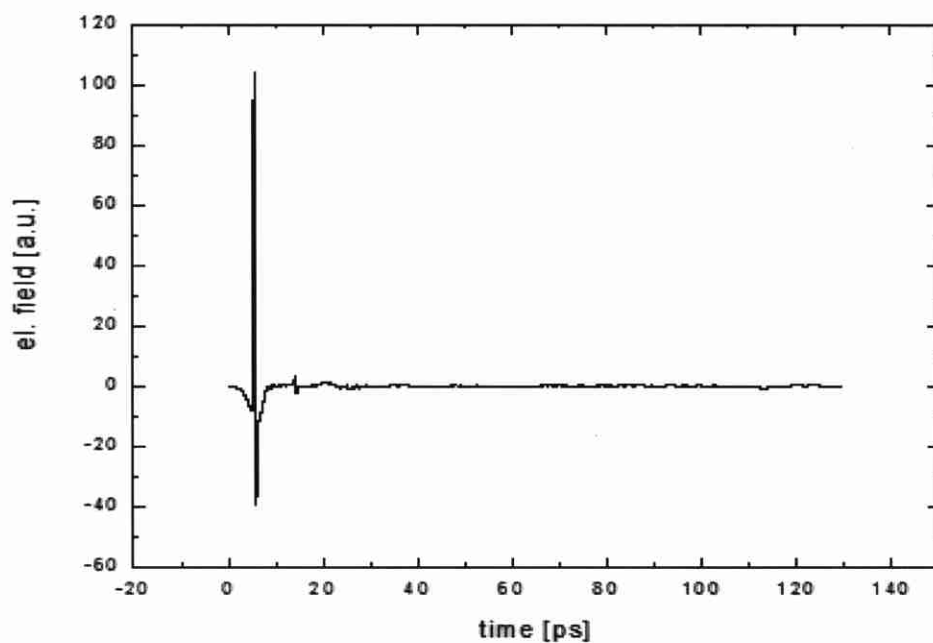
THZ-EMITTER SPECIFICATIONS	UNIT	VALUE
optical power	mW	10
applied voltage	V	30
modulation frequency	KHz	1,034
antenna structure		dipole spiral
wire distance	µm	20

THZ-DETECTOR SPECIFICATIONS	UNIT	VALUE
optical power	mW	10
antenna structure		dipole spiral
wire distance	µm	20
gapsize	µm	5
dark current @ 30 V dc	µA	0,2
photocurrent @ 30 V dc	µA	41,7
used sample		1130021

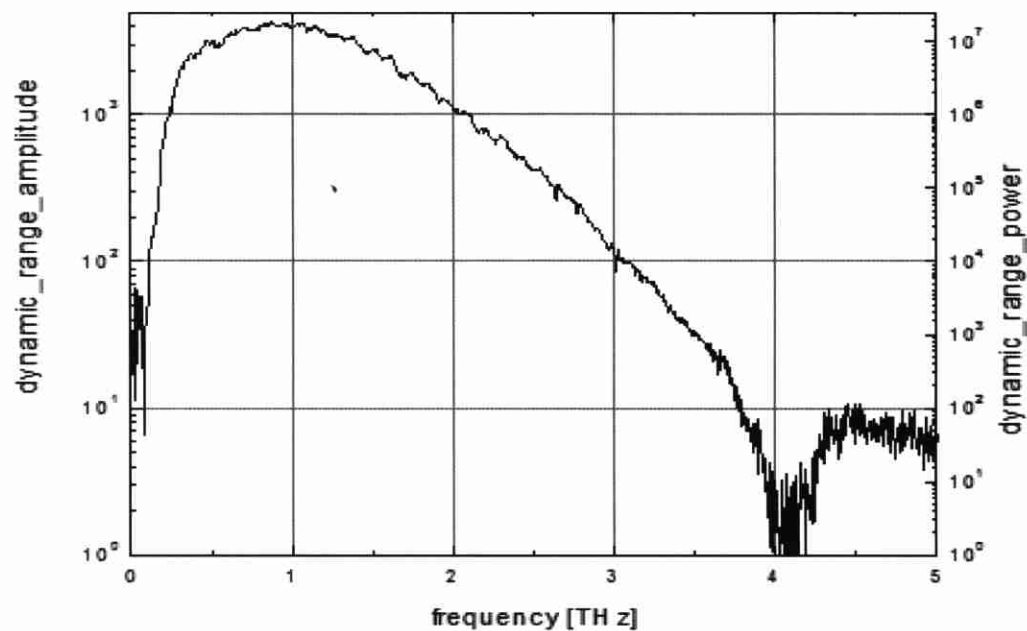
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laser central wavelength	nm	800
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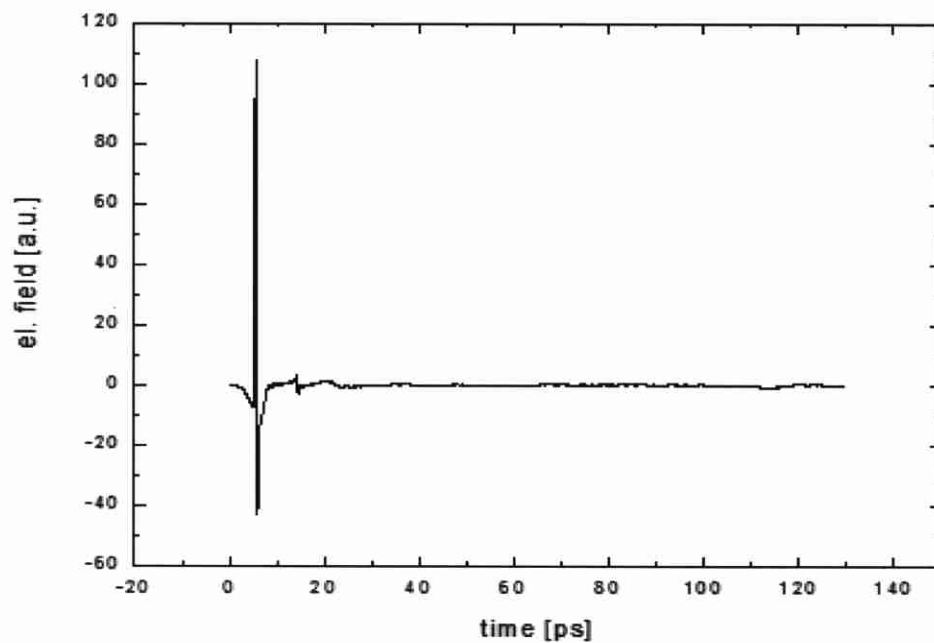
THZ-EMITTER SPECIFICATIONS	UNIT	VALUE
optical power	mW	10
applied voltage	V	30
modulation frequency	KHz	1,034
antenna structure		dipole spiral
wire distance	µm	20

THZ-DETECTOR SPECIFICATIONS	UNIT	VALUE
optical power	mW	10
antenna structure		dipole spiral
wire distance	µm	20
gapsize	µm	5
dark current @ 30 V dc	µA	0,2
photocurrent @ 30 V dc	µA	44,2
used sample		1130020

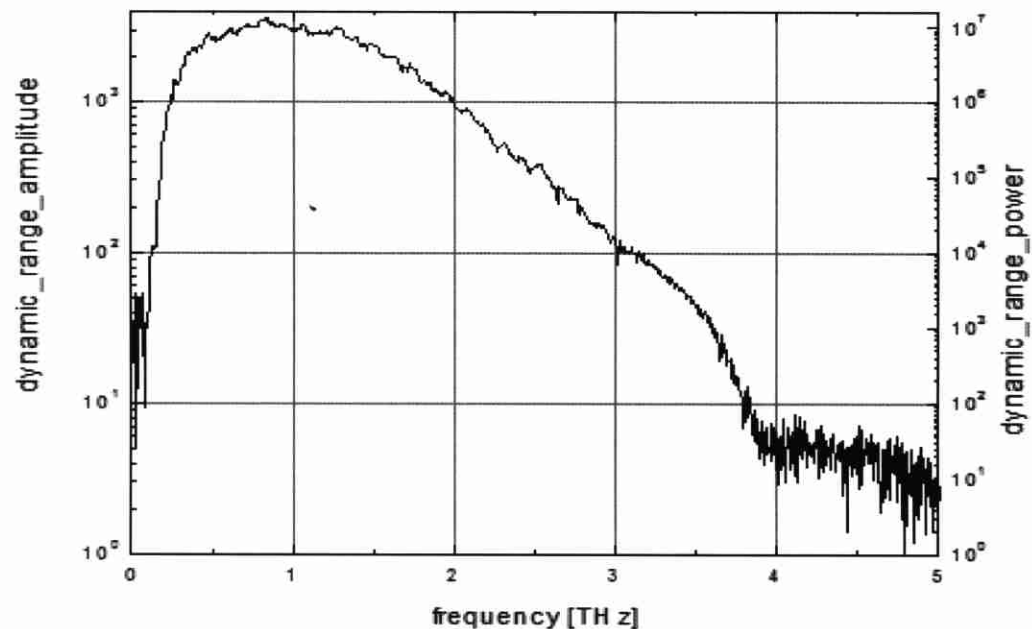
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waveform of the THz-pulse



spectral dynamic range of the THz-pulse



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Packing slip

Menlo Systems GmbH | Am Klopferspitz 19a | D-82152 Martinsried

The University of Adelaide
Engineering North RmNG09 Elec.Eng.
Frome Rd Gate 5
North Tce Campus
Adelaide SA 5005
Australia

Packing slip No.	LS02326
Page	1 of 1
Your Order No.	0000241086
Sales order	AU01800
Ship date	21.05.2013
Your ref.	Rose Marie +61 (08) 8313 4053
Contact Person	Anke Naumann a.naumann@menlosystems.com Tel: +49 89 189166 0 Fax: +49 89 189166 111
Delivery terms	DAP Adelaide, AU

Pos.	Item	Ordered	Delivered	Remaining
1	TERA8-1 Photoconductive Antenna Quantity : 1,00 Serial number: 1270005 Quantity : 1,00 Serial number: 1270006 Quantity : 1,00 Serial number: 1270007	3	3	
2	Shipment, Handling, and Insurance	1	1	

ABN: 61 249 878 937

Warranty period is 12 months after delivery. Any malfunction from improper use is excluded.

Receipt

Menlo Systems GmbH
Amtsgericht München HRB 138145
Ust-IdNr. DE 217772017
Geschäftsführung
Dr. Michael Mei, Dr. Ronald Holzwarth

Kreissparkasse, Sendlinger-Tor-Platz 1
D-80336 München
SWIFT-BIC: BYLADEM1KMS
€ Konto: 22767040, BLZ 70250150
IBAN: DE31 7025 0150 0022 7670 40
\$ Konto: 29994613, BLZ 70250150
IBAN: DE63 7025 0150 0029 9946 13

Deutsche Bank, Promenadeplatz 15
D-80333 München
SWIFT DEUTDEMM
Konto 1 937 424, BLZ 700 700 10
IBAN DE 747 007 001 001 937 424 00