

LAMPIRAN A

Lampiran A-1. Datasheet dari Impinj RFID Reader R420 [3]

Product Details	Speedway R420	Speedway R220																
Air Interface Protocol	GS1/EPCglobal UHF Gen2 (ISO 18000-6C) or RAIN RFID																	
Antenna Ports	4 expandable to 32 antennas with Speedway Antenna Hub optimized for Impinj reader antennas (RP TNC connector)	2 monostatic antenna ports optimized for Impinj reader antennas (RP TNC connector)																
Performance	Optimized for high volume, high concentration scenarios; supports high throughput modes including Max Throughput FMO, Hybrid (m=2), and Max Miller (m=4)	Covers a smaller, more specific area to save on deployment costs																
Supported Regions or Geographies	Go to www.impinj.com/supported_regions for regions and geographies by model																	
Transmit Power	<ul style="list-style-type: none"> +10.0 to +31.5 dBm (PoE) (EU1 limited to +30 dBm) +10.0 to +32.5 dBm (Listed/Certified power supply) (EU1 limited to +31.5 dBm, JP2 limited to 30 dBm) 																	
Max Receive Sensitivity	-84 dBm																	
Min Return Loss	10 dB																	
Application Interfaces	<ul style="list-style-type: none"> Low Level Reader Protocol (LLRP): C, C++, Java, and C# libraries OctaneSDK: Java or C# On-reader Applications via Octane ETK: C, C++ 																	
Network Connectivity	<ul style="list-style-type: none"> 10/100BASE-T auto-negotiate (full/half) with auto-sensing MDI/MDX for auto-crossover (RJ-45) 802.1x with PEAP/TLS and MD5 support WPA for Wifi and Ethernet Speedway Connect (not included in Speedway purchase): HID (keyboard) emulation, TCP Socket, Serial/RS-232, HTTP POST 																	
IP Address Configuration	DHCP, Static, or Link Local Addressing (LLA) with Multicast DNS (mDNS)																	
Time Synchronization	Network Time Protocol (NTP)																	
Management Interfaces	<ul style="list-style-type: none"> Impinj Web Management UI Impinj RShell Management Console using serial management console port, telnet, or SSH SNMP 	<ul style="list-style-type: none"> FTP EPCglobal Reader Management v1.0.1 Syslog 																
Reliable Firmware Upgrade	<ul style="list-style-type: none"> Dual image partitions enable smooth transition to new firmware while the reader is still operating Scalable upgrade mechanism enables simultaneous scheduled upgrades of multiple readers 	<ul style="list-style-type: none"> USB Flash Drive Impinj Web Management UI SSH File Transfer Protocol (SFTP) support 																
Management Console	RS-232 using a standard Cisco-style management cable (DB-9 to RJ-45)																	
USB	<ul style="list-style-type: none"> USB Device (Type B) and Host (Type A) ports USB Virtual COM Serial Port and USB drive support for embedded applications 																	
GPIO	4 inputs, optically isolated 3-30V; 4 outputs, optically isolated, 0-30V, non-isolated 5V, 100mA supply (DB-15)																	
Power Sources	<ul style="list-style-type: none"> Power over Ethernet (PoE) IEEE 802.3af Listed/Certified power supply, marked LPS or Class 2, with 24Vdc output, rated minimum 2.5A 																	
Power Consumption	<table border="1"> <thead> <tr> <th></th> <th>Idle</th> <th>Typical</th> <th>LDC</th> </tr> </thead> <tbody> <tr> <td>PoE at +30 dBm</td> <td>3W</td> <td>11.5W</td> <td>6W</td> </tr> <tr> <td>Power Supply at +30 dBm</td> <td>3W</td> <td>13.5W</td> <td>6W</td> </tr> <tr> <td>Power Supply at +32.5 dBm*</td> <td>3W</td> <td>15W</td> <td>6W</td> </tr> </tbody> </table>		Idle	Typical	LDC	PoE at +30 dBm	3W	11.5W	6W	Power Supply at +30 dBm	3W	13.5W	6W	Power Supply at +32.5 dBm*	3W	15W	6W	*Maximum is 31.5 dBm for EU1 readers and 30dBm JP2 readers
	Idle	Typical	LDC															
PoE at +30 dBm	3W	11.5W	6W															
Power Supply at +30 dBm	3W	13.5W	6W															
Power Supply at +32.5 dBm*	3W	15W	6W															
Environmental Sealing	IEC IP52																	
Shock and Vibration	Mil-Std-810G Certified																	
Electrical Safety	UL Listed (US and Canada), EN 60950-1:2006 / A11:2009 / A1:2010 / A12:2011																	
Operating Temperature	-20 °C to +50 °C																	
Humidity	5% to 95%, non-condensing																	
Dimensions & Weight	7.5 in H x 6.9 in W x 1.2 in D (19 x 17.5 x 3 cm); 1.5 lbs (24.5 oz)																	
RoHS	Compliant to European Union directive 2011/65/EU																	
Warranty and Maintenance Options	<ul style="list-style-type: none"> 1 year limited warranty with purchase, option to extend 3 year Enhanced Maintenance upgrade available 																	

Lampiran A-2. Datasheet dari Laird UHF Far Field Antenna S9028PCL [9]



902-928 MHz 9 dBic CIRCULAR POLARITY PANEL

The Laird S9028PCL antenna is a circularly polarized panel antenna that provides reception and transmission of signals in the 902-928 MHz frequency band. Laird's industry-renowned design methodology achieves maximum efficiency and performance across the entire frequency band.

Both VSWR and axial ratios are excellent and allow the user to achieve the maximum performance for an antenna of this type. The antenna is housed in a heavy duty radome enclosure that can be directly wall mounted, An optional articulating mount allows either wall or mast mounting.

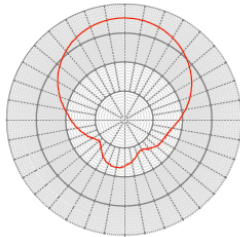
The antenna is offered with an integrated coax pigtail and a variety of connector types are available.

FEATURES

- Low profile
- Extremely low VSWR and axial ratio
- Weather and UV resistant radome
- Wide range of connector and cable options
- Left hand and right hand CP versions

APPLICATIONS

- Warehouse
- Distribution center
- Airports and hospitals
- Transit terminals
- Conveyer belt



915 MHz

SPECIFICATIONS

Antenna Part Number	S9028PLC / S9028PCR
Frequency Range	902 - 928 MHz
Gain	9 dBic
Maxium VSWR	1.3:1
3 dB Beamwidth - Azimuth	70°
Front to Back Ratio	20 dB
Polarization	Circular Right or Left
Maxium Input Power	10 Watts
Input Impedence	50 Ohms
Axial Ratio	1dB Typical
Weight (Kg)	2.3 lbs (1.04)
Mechanical Size	10.2" x 10.2" x 1.32"
Antenna Connection	Coax Pigtail, Rev TNC Male (others available)
Radome	High Strength PC
Mount Style	Threaded Stud
Temperature Operational	-25°C to +70°C
Lightning Protection	DC Grounded
Environmental Rating	IP 54

Lampiran A-3. Datasheet dari Alien-9640 Squiggle Inlay [10]

Dry Inlay		Environmental	
Antenna Width	3.732" [94.8mm]	Shelf Life	2 years at +77°F [+25°C] @ 40%RH
Antenna Length	0.319" [8.1mm]	Recommended Storage	+77°F [+25°C] @ 40% RH
Web Width (-FRA)	4.252" [108.0mm]	Storage Limits	-13°F to 122°F [-25°C to +50°C] 20% to 90% RH Non-condensing
Web Width (-FSRA)	3.874" [98.4mm]	Operating Limits	-40°F to +158°F [-40°C to +70°C] 20% to 90% RH Non-condensing
Web Pitch	0.625" [15.875mm]	Bend Diameter	> 1.97" [50mm]
Core Width (-FRA)	4.252" [108.0mm]	Pressure	< 5N/mm ²
Core Width (-FSRA)	3.874" [98.4mm]	Drop Resistance	Per ASTM D5276
Core ID	6" [152.4mm]*	Write Cycles	100,000 @ 25°C
Core Material	Fiberboard	RoHs	2002/95/EC, 2005/618/EC, 2011/65/EU Compliant
Interleaf Material	Paper	REACH	1907/2006/EC Compliant (SVHC and ECHA)
Interleaf Width	1.5" [38.1mm]	ESD Limit- HBM / CDM	5.0kV / 1.5kV
Inlays per Roll	20,000 Nominal	RFID	
Maximum Roll OD	< 12" [304.8mm]	Protocols Supported	ISO/IEC 18000-6C EPCglobal Class 1 Gen 2
Roll Labeling Data	Roll #, Quantity	Integrated Circuit	Alien Higgs-3
Wet Inlay		EPCglobal Certificate	950110126000001084
Inlay Width	3.866" [98.2mm]	Operating Frequency	840-960 MHz
Inlay Length	0.484" [12.3mm]	EPC Size	96 - 480 Bits
Web Width	3.992" [101.4mm]	User Memory	512 Bits
Web Pitch	0.625" [15.875mm]	TID	32 Bits
Core Width	4.752" [120.7mm]	Unique TID	64 Bits
Core ID	6" [152.4mm]*	Access Password	32 Bits
Core Material	Fiberboard	Kill Password	32 Bits
Inlays per Roll	20,000 Nominal	* Shipped with 6" to 3" plastic core adaptor	
Maximum Roll OD	< 16" [406.4mm]		
Roll Labeling Data	Roll #, Quantity		
White (-FWRWA)	TT Printable White Film Overlay		
Overlay Adhesive (-FWRWA)	General Purpose Permanent		
Inlay Adhesive	General Purpose Permanent		
Adhesive Application Temperature	> +25°F [-4°C]		
Adhesive Service Temperature	-40°F to +200°F [-40°C to +93.3°C]		
Release Liner	40# SCK		



Lampiran A-4. Data Mentah pada menu program Multireader

Percobaan 1.

E200-3411-B802-0110-3300-7268	390	390	10.8	-44	36.045	36.046	3
E200-9037-8902-0051-0580-DA28	388	388	10.8	-43	36.037	36.033	3
E200-3411-B802-0110-3300-7268	552	552	15.4	-41	35.961	35.935	1
E200-9037-8902-0051-0580-DA28	585	585	16.3	-25	35.966	35.939	1
E200-9037-8902-0050-0590-D6BD	373	373	10.4	-44	36.042	35.972	3
E200-9037-8902-0048-0590-D6B5	348	348	9.7	-53	35.963	35.873	1
E200-9037-8902-0050-0590-D6BD	576	576	16.1	-37	35.959	35.866	1
E200-3411-B802-0110-3300-7369	350	350	9.8	-41	36.002	35.888	2
E200-9037-8902-0051-0580-DA28	582	582	16.2	-52	35.998	35.883	2
E200-3411-B802-0110-3300-7369	85	85	2.4	-35	35.781	35.642	3
E200-9037-8902-0048-0590-D6B5	364	364	10.1	-40	36.043	35.904	3
E200-3411-B802-0110-3300-7369	565	565	15.8	-39	35.965	35.798	1
E200-9037-8902-0050-0590-D6BD	394	394	11	-50	36.004	35.806	2
E200-3411-B802-0110-3300-7268	574	574	16	-42	36.007	35.804	2
E200-9037-8902-0051-0590-D6C1	226	226	15.5	-46	14.801	14.567	3
E200-9037-8902-0050-0580-DA24	346	346	9.7	-50	36.036	35.793	3
E200-9037-8902-0046-0590-D6AD	562	562	15.7	-37	36.039	35.789	3
E200-9037-8902-0063-0590-D6F1	562	562	15.7	-46	35.969	35.703	1
E200-9037-8902-0046-0590-D6AD	573	573	16.1	-35	35.968	35.698	1
E200-9037-8902-0050-0580-DA24	555	555	15.5	-47	35.971	35.698	1
E200-9037-8902-0047-0590-D6B1	569	569	15.9	-38	35.967	35.686	1
E200-9037-8902-0047-0590-D6B1	560	560	15.7	-47	36.009	35.706	2
E200-9037-8902-0048-0590-D6B5	573	573	16.1	-50	36.005	35.701	2

E200-9037-8902-0063-0590-D6F1	499	499	14	-51	36.01	35.704	2
E200-9037-8902-0051-0590-D6C1	576	576	16.1	-38	36.003	35.694	2
E200-9037-8902-0047-0590-D6B1	354	354	9.9	-44	36.047	35.691	3
E200-9037-8902-0063-0590-D6F1	17	17	1.2	-52	14.955	14.596	3
E200-9037-8902-0051-0590-D6C1	574	574	16.1	-38	35.964	35.577	1
E200-3411-B802-0110-3300-7335	559	559	15.7	-42	35.962	35.574	1
E200-3411-B802-0110-3300-7335	554	554	15.6	-44	36	35.577	2
E200-9037-8902-0050-0580-DA24	549	549	15.4	-47	36.008	35.584	2
E200-9037-8902-0046-0590-D6AD	572	572	16.1	-44	36.003	35.577	2
E200-3411-B802-0110-3300-7335	217	217	6.1	-46	36.041	35.574	3

Percobaan 2

E200-3411-B802-0110-3300-7335	715	715	15.9	-49	44.946	44.947	1
E200-9037-8902-0048-0590-D6B5	732	732	16.3	-41	44.943	44.941	1
E200-3411-B802-0110-3300-7268	725	725	16.1	-46	44.95	44.947	1
E200-9037-8902-0050-0590-D6BD	732	732	16.3	-49	44.945	44.941	1
E200-9037-8902-0051-0580-DA28	728	728	16.2	-50	44.948	44.943	1
E200-3411-B802-0110-3300-7369	729	729	16.2	-47	44.947	44.941	1
E200-9037-8902-0051-0590-D6C1	729	729	16.2	-55	44.958	44.948	1
E200-9037-8902-0050-0580-DA24	661	661	14.7	-47	44.954	44.944	1
E200-9037-8902-0063-0590-D6F1	612	612	13.6	-43	44.944	44.923	1
E200-9037-8902-0046-0590-D6AD	720	720	16	-43	44.952	44.93	1
E200-9037-8902-0050-0590-D6BD	732	732	16.3	-53	44.984	44.948	2
E200-3411-B802-0110-3300-7335	716	716	15.9	-52	44.993	44.956	2
E200-9037-8902-0050-0580-DA24	689	689	15.3	-49	44.987	44.948	2

E200-9037-8902-0051-0590-D6C1	732	732	16.3	-60	44.991	44.952	2
E200-9037-8902-0063-0590-D6F1	720	720	16	-41	44.986	44.945	2
E200-9037-8902-0051-0580-DA28	695	695	15.5	-56	44.989	44.948	2
E200-9037-8902-0048-0590-D6B5	732	732	16.3	-48	44.99	44.947	2
E200-3411-B802-0110-3300-7369	732	732	16.3	-49	44.996	44.951	2
E200-9037-8902-0046-0590-D6AD	731	731	16.3	-46	44.992	44.947	2
E200-3411-B802-0110-3300-7268	687	687	15.3	-49	44.859	44.813	2
E200-9037-8902-0048-0590-D6B5	729	729	16.2	-55	45.028	44.954	3
E200-3411-B802-0110-3300-7369	722	722	16.1	-53	45.033	44.959	3
E200-3411-B802-0110-3300-7335	506	506	11.3	-53	45.034	44.959	3
E200-9037-8902-0051-0580-DA28	724	724	16.1	-45	45.032	44.955	3
E200-9037-8902-0050-0590-D6BD	731	731	16.3	-56	45.023	44.945	3
E200-9037-8902-0046-0590-D6AD	731	731	16.3	-45	45.027	44.948	3
E200-3411-B802-0110-3300-7268	713	713	15.9	-49	45.026	44.946	3
E200-9037-8902-0050-0580-DA24	639	639	14.2	-50	45.029	44.948	3
E200-9037-8902-0063-0590-D6F1	194	194	4.3	-43	45.024	44.935	3
E200-9037-8902-0051-0590-D6C1	102	102	12.6	-64	45.029	8.07	3
E200-9037-8902-0047-0590-D6B1	38	38	14.6	-44	45.031	2.602	3
E200-9037-8902-0047-0590-D6B1	38	38	15.2	-36	44.953	2.498	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	44.988	2.494	2

Percobaan 3.

E200-9037-8902-0051-0590-D6C1	64	64	15.2	-59	4.217	1
E200-9037-8902-0048-0590-D6B5	64	64	15.2	-50	4.218	1
E200-9037-8902-0047-0590-D6B1	64	64	15.1	-49	4.227	1

E200-3411-B802-0110-3300-7268	64	64	15.2	-54	4.216	1
E200-9037-8902-0063-0590-D6F1	64	64	15.2	-59	4.229	1
E200-3411-B802-0110-3300-7335	64	64	15.2	-60	4.226	1
E200-9037-8902-0050-0590-D6BD	64	64	15.2	-49	4.225	1
E200-9037-8902-0051-0580-DA28	64	64	15.2	-51	4.221	1
E200-9037-8902-0050-0580-DA24	54	54	12.8	-67	4.223	1
E200-3411-B802-0110-3300-7369	64	64	15.2	-57	4.219	1
E200-9037-8902-0046-0590-D6AD	64	64	15.2	-65	4.22	1
E200-9037-8902-0050-0580-DA24	62	62	14.7	-57	4.267	2
E200-3411-B802-0110-3300-7268	64	64	15.2	-60	4.268	2
E200-3411-B802-0110-3300-7369	64	64	15.2	-51	4.262	2
E200-3411-B802-0110-3300-7335	64	64	15.2	-52	4.259	2
E200-9037-8902-0047-0590-D6B1	64	64	15.2	-57	4.263	2
E200-9037-8902-0050-0590-D6BD	64	64	15.2	-52	4.258	2
E200-9037-8902-0051-0580-DA28	64	64	15.2	-58	4.26	2
E200-9037-8902-0063-0590-D6F1	64	64	15.2	-68	4.27	2
E200-9037-8902-0048-0590-D6B5	64	64	15.2	-52	4.264	2
E200-9037-8902-0051-0590-D6C1	64	64	15.2	-62	4.265	2
E200-9037-8902-0046-0590-D6AD	64	64	15.2	-61	4.261	2
E200-9037-8902-0051-0580-DA28	64	64	15.1	-57	4.318	3
E200-3411-B802-0110-3300-7335	64	64	15.2	-59	4.312	3
E200-9037-8902-0046-0590-D6AD	64	64	15.2	-57	4.31	3
E200-9037-8902-0047-0590-D6B1	64	64	15.2	-58	4.309	3
E200-3411-B802-0110-3300-7369	64	64	15.2	-57	4.315	3
E200-3411-B802-0110-3300-7268	64	64	15.2	-52	4.308	3
E200-9037-8902-0050-0590-D6BD	64	64	15.2	-54	4.311	3
E200-9037-8902-0048-0590-D6B5	64	64	15.2	-63	4.316	3
E200-9037-8902-0051-0590-D6C1	6	6	1.8	-69	3.379	3
E200-9037-8902-0050-0580-DA24	16	16	4.8	-68	4.282	3
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	44.988	2

Percobaan 4.

E200-9037-8902-0046-0590-D6AD	54	54	15.8	-63	3.415	1
E200-9037-8902-0051-0580-DA28	54	54	15.9	-51	3.405	1
E200-9037-8902-0063-0590-D6F1	52	52	15.3	-60	3.403	1
E200-9037-8902-0047-0590-D6B1	54	54	15.9	-49	3.401	1
E200-3411-B802-0110-3300-7268	54	54	15.9	-54	3.402	1
E200-3411-B802-0110-3300-7369	54	54	15.9	-56	3.411	1
E200-9037-8902-0051-0590-D6C1	54	54	15.9	-60	3.413	1
E200-9037-8902-0050-0590-D6BD	54	54	15.9	-49	3.407	1
E200-9037-8902-0048-0590-D6B5	54	54	15.9	-51	3.406	1
E200-3411-B802-0110-3300-7335	54	54	15.9	-59	3.409	1
E200-9037-8902-0050-0580-DA24	51	51	15.1	-67	3.398	1

E200-9037-8902-0050-0590-D6BD	54	54	15.8	-52	3.457	2
E200-9037-8902-0046-0590-D6AD	53	53	15.6	-61	3.437	2
E200-9037-8902-0050-0580-DA24	53	53	15.5	-57	3.454	2
E200-9037-8902-0047-0590-D6B1	54	54	15.8	-57	3.453	2
E200-9037-8902-0051-0580-DA28	54	54	15.8	-58	3.459	2
E200-3411-B802-0110-3300-7268	54	54	15.8	-60	3.455	2
E200-3411-B802-0110-3300-7335	53	53	15.6	-52	3.432	2
E200-3411-B802-0110-3300-7369	54	54	15.9	-53	3.451	2
E200-9037-8902-0048-0590-D6B5	54	54	15.9	-52	3.452	2
E200-9037-8902-0063-0590-D6F1	51	51	15.1	-68	3.426	2
E200-9037-8902-0051-0590-D6C1	54	54	15.9	-62	3.442	2
E200-3411-B802-0110-3300-7268	52	52	15.9	-52	3.361	3
E200-9037-8902-0047-0590-D6B1	52	52	15.9	-58	3.356	3
E200-9037-8902-0046-0590-D6AD	52	52	15.8	-57	3.364	3
E200-3411-B802-0110-3300-7369	52	52	15.8	-57	3.366	3
E200-9037-8902-0050-0590-D6BD	52	52	15.9	-54	3.362	3
E200-3411-B802-0110-3300-7335	52	52	15.8	-59	3.367	3
E200-9037-8902-0051-0580-DA28	52	52	15.9	-57	3.363	3
E200-9037-8902-0048-0590-D6B5	52	52	15.9	-62	3.358	3
E200-9037-8902-0050-0580-DA24	13	13	4.2	-69	3.344	3
E200-9037-8902-0051-0590-D6C1	6	6	3.5	-69	2.195	3
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	44.988	2

Percobaan 5.

E200-9037-8902-0048-0590-D6B5	38	38	16.2	-50	2.344	1
E200-9037-8902-0050-0580-DA24	34	34	14.5	-67	2.344	1
E200-3411-B802-0110-3300-7335	38	38	16.2	-59	2.346	1
E200-9037-8902-0050-0590-D6BD	38	38	16.2	-49	2.346	1
E200-3411-B802-0110-3300-7268	38	38	16.2	-54	2.343	1
E200-3411-B802-0110-3300-7369	38	38	16.3	-57	2.335	1
E200-9037-8902-0051-0590-D6C1	38	38	16.2	-58	2.344	1
E200-9037-8902-0046-0590-D6AD	38	38	16.3	-63	2.334	1
E200-9037-8902-0047-0590-D6B1	38	38	16.2	-49	2.343	1
E200-9037-8902-0051-0580-DA28	38	38	16.3	-51	2.335	1
E200-9037-8902-0063-0590-D6F1	37	37	15.9	-60	2.328	1
E200-3411-B802-0110-3300-7268	38	38	16.1	-60	2.362	2
E200-9037-8902-0046-0590-D6AD	38	38	16.2	-61	2.348	2
E200-9037-8902-0048-0590-D6B5	38	38	16.2	-53	2.349	2
E200-9037-8902-0051-0590-D6C1	38	38	16.2	-62	2.345	2
E200-3411-B802-0110-3300-7335	38	38	16.1	-52	2.354	2
E200-9037-8902-0050-0580-DA24	37	37	15.8	-57	2.342	2
E200-9037-8902-0047-0590-D6B1	38	38	16.2	-57	2.348	2
E200-9037-8902-0050-0590-D6BD	38	38	16.2	-52	2.348	2

E200-9037-8902-0063-0590-D6F1	38	38	16.2	-68	2.34	2
E200-3411-B802-0110-3300-7369	38	38	16.2	-53	2.346	2
E200-9037-8902-0051-0580-DA28	38	38	16.2	-58	2.348	2
E200-9037-8902-0048-0590-D6B5	38	38	16.1	-63	2.365	3
E200-9037-8902-0051-0580-DA28	38	38	16.2	-57	2.347	3
E200-3411-B802-0110-3300-7335	38	38	16.2	-59	2.352	3
E200-3411-B802-0110-3300-7268	38	38	16.2	-52	2.346	3
E200-9037-8902-0047-0590-D6B1	38	38	16.2	-58	2.348	3
E200-9037-8902-0051-0590-D6C1	6	6	3.5	-69	1.709	3
E200-9037-8902-0050-0590-D6BD	38	38	16.2	-54	2.34	3
E200-9037-8902-0046-0590-D6AD	38	38	16.2	-57	2.342	3
E200-3411-B802-0110-3300-7369	38	38	16.2	-57	2.342	3
E200-9037-8902-0050-0580-DA24	7	7	10.5	-68	0.669	3
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

Percobaan 6.

E200-3411-B802-0110-3300-7268	42	42	15.8	-54	2.664	1
E200-3411-B802-0110-3300-7369	42	42	15.7	-56	2.671	1
E200-3411-B802-0110-3300-7335	42	42	15.7	-58	2.672	1
E200-9037-8902-0050-0580-DA24	35	35	13.2	-67	2.662	1
E200-9037-8902-0051-0590-D6C1	40	40	15	-59	2.667	1
E200-9037-8902-0046-0590-D6AD	41	41	15.4	-65	2.67	1
E200-9037-8902-0051-0580-DA28	41	41	15.5	-51	2.662	1
E200-9037-8902-0047-0590-D6B1	41	41	15.5	-49	2.665	1
E200-9037-8902-0050-0590-D6BD	41	41	15.5	-49	2.661	1
E200-9037-8902-0048-0590-D6B5	41	41	15.5	-50	2.669	1
E200-9037-8902-0063-0590-D6F1	38	38	14.4	-59	2.666	1
E200-9037-8902-0048-0590-D6B5	42	42	15.7	-53	2.712	2
E200-9037-8902-0050-0590-D6BD	42	42	15.7	-52	2.713	2
E200-9037-8902-0051-0580-DA28	42	42	15.7	-58	2.711	2
E200-3411-B802-0110-3300-7268	42	42	15.7	-60	2.714	2
E200-3411-B802-0110-3300-7335	42	42	15.7	-52	2.705	2
E200-9037-8902-0046-0590-D6AD	42	42	15.7	-61	2.707	2
E200-9037-8902-0050-0580-DA24	42	42	15.7	-57	2.709	2
E200-9037-8902-0063-0590-D6F1	39	39	14.6	-69	2.716	2
E200-3411-B802-0110-3300-7369	42	42	15.7	-53	2.708	2
E200-9037-8902-0047-0590-D6B1	42	42	15.8	-57	2.704	2
E200-9037-8902-0051-0590-D6C1	42	42	15.7	-62	2.715	2
E200-3411-B802-0110-3300-7335	40	40	15.7	-58	2.618	3
E200-3411-B802-0110-3300-7369	40	40	15.6	-57	2.628	3
E200-9037-8902-0050-0590-D6BD	40	40	15.7	-54	2.624	3
E200-9037-8902-0051-0580-DA28	40	40	15.7	-57	2.623	3
E200-3411-B802-0110-3300-7268	40	40	15.7	-52	2.62	3

E200-9037-8902-0046-0590-D6AD	40	40	15.7	-57	2.626	3
E200-9037-8902-0047-0590-D6B1	40	40	15.7	-58	2.625	3
E200-9037-8902-0048-0590-D6B5	40	40	15.7	-63	2.621	3
E200-9037-8902-0050-0580-DA24	10	10	5.8	-68	2.325	3
E200-9037-8902-0051-0590-D6C1	3	3	3.2	-69	2.464	3
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	44.988	2

Percobaan 7.

E200-3411-B802-0110-3300-7268	390	390	10.8	-44	36.045	36.046	3
E200-9037-8902-0051-0580-DA28	388	388	10.8	-43	36.037	36.033	3
E200-3411-B802-0110-3300-7268	552	552	15.4	-41	35.961	35.935	1
E200-9037-8902-0051-0580-DA28	585	585	16.3	-25	35.966	35.939	1
E200-9037-8902-0050-0590-D6BD	373	373	10.4	-44	36.042	35.972	3
E200-9037-8902-0048-0590-D6B5	348	348	9.7	-53	35.963	35.873	1
E200-9037-8902-0050-0590-D6BD	576	576	16.1	-37	35.959	35.866	1
E200-3411-B802-0110-3300-7369	350	350	9.8	-41	36.002	35.888	2
E200-9037-8902-0051-0580-DA28	582	582	16.2	-52	35.998	35.883	2
E200-3411-B802-0110-3300-7369	85	85	2.4	-35	35.781	35.642	3
E200-9037-8902-0048-0590-D6B5	364	364	10.1	-40	36.043	35.904	3
E200-3411-B802-0110-3300-7369	565	565	15.8	-39	35.965	35.798	1
E200-9037-8902-0050-0590-D6BD	394	394	11	-50	36.004	35.806	2
E200-3411-B802-0110-3300-7268	574	574	16	-42	36.007	35.804	2
E200-9037-8902-0051-0590-D6C1	226	226	15.5	-46	14.801	14.567	3
E200-9037-8902-0050-0580-DA24	346	346	9.7	-50	36.036	35.793	3
E200-9037-8902-0046-0590-D6AD	562	562	15.7	-37	36.039	35.789	3
E200-9037-8902-0063-0590-D6F1	562	562	15.7	-46	35.969	35.703	1
E200-9037-8902-0046-0590-D6AD	573	573	16.1	-35	35.968	35.698	1
E200-9037-8902-0050-0580-	555	555	15.5	-47	35.971	35.698	1

DA24

E200-9037-8902-0047-0590-D6B1	569	569	15.9	-38	35.967	35.686	1
E200-9037-8902-0047-0590-D6B1	560	560	15.7	-47	36.009	35.706	2
E200-9037-8902-0048-0590-D6B5	573	573	16.1	-50	36.005	35.701	2
E200-9037-8902-0063-0590-D6F1	499	499	14	-51	36.01	35.704	2
E200-9037-8902-0051-0590-D6C1	576	576	16.1	-38	36.003	35.694	2
E200-9037-8902-0047-0590-D6B1	354	354	9.9	-44	36.047	35.691	3
E200-9037-8902-0063-0590-D6F1	17	17	1.2	-52	14.955	14.596	3
E200-9037-8902-0051-0590-D6C1	574	574	16.1	-38	35.964	35.577	1
E200-3411-B802-0110-3300-7335	559	559	15.7	-42	35.962	35.574	1
E200-3411-B802-0110-3300-7335	554	554	15.6	-44	36	35.577	2
E200-9037-8902-0050-0580-DA24	549	549	15.4	-47	36.008	35.584	2
E200-9037-8902-0046-0590-D6AD	572	572	16.1	-44	36.003	35.577	2
E200-3411-B802-0110-3300-7335	217	217	6.1	-46	36.041	35.574	3

Percobaan 8.

E200-9037-8902-0051-0590-D6C1	64	64	15.2	-59	4.217		1
E200-9037-8902-0048-0590-D6B5	64	64	15.2	-50	4.218		1
E200-9037-8902-0047-0590-D6B1	64	64	15.1	-49	4.227		1
E200-3411-B802-0110-3300-7268	64	64	15.2	-54	4.216		1
E200-9037-8902-0063-0590-D6F1	64	64	15.2	-59	4.229		1
E200-3411-B802-0110-3300-7335	64	64	15.2	-60	4.226		1
E200-9037-8902-0050-0590-D6BD	64	64	15.2	-49	4.225		1
E200-9037-8902-0051-0580-DA28	64	64	15.2	-51	4.221		1
E200-9037-8902-0050-0580-DA24	54	54	12.8	-67	4.223		1
E200-3411-B802-0110-3300-7369	64	64	15.2	-57	4.219		1
E200-9037-8902-0046-0590-D6AD	64	64	15.2	-65	4.22		1
E200-9037-8902-0050-0580-DA24	62	62	14.7	-57	4.267		2
E200-3411-B802-0110-3300-7268	64	64	15.2	-60	4.268		2
E200-3411-B802-0110-3300-7369	64	64	15.2	-51	4.262		2
E200-3411-B802-0110-3300-7335	64	64	15.2	-52	4.259		2
E200-9037-8902-0047-0590-D6B1	64	64	15.2	-57	4.263		2
E200-9037-8902-0050-0590-D6BD	64	64	15.2	-52	4.258		2

E200-9037-8902-0051-0580-DA28	64	64	15.2	-58	4.26	2
E200-9037-8902-0063-0590-D6F1	64	64	15.2	-68	4.27	2
E200-9037-8902-0048-0590-D6B5	64	64	15.2	-52	4.264	2
E200-9037-8902-0051-0590-D6C1	64	64	15.2	-62	4.265	2
E200-9037-8902-0046-0590-D6AD	64	64	15.2	-61	4.261	2
E200-9037-8902-0051-0580-DA28	64	64	15.1	-57	4.318	3
E200-3411-B802-0110-3300-7335	64	64	15.2	-59	4.312	3
E200-9037-8902-0046-0590-D6AD	64	64	15.2	-57	4.31	3
E200-9037-8902-0047-0590-D6B1	64	64	15.2	-58	4.309	3
E200-3411-B802-0110-3300-7369	64	64	15.2	-57	4.315	3
E200-3411-B802-0110-3300-7268	64	64	15.2	-52	4.308	3
E200-9037-8902-0050-0590-D6BD	64	64	15.2	-54	4.311	3
E200-9037-8902-0048-0590-D6B5	64	64	15.2	-63	4.316	3
E200-9037-8902-0051-0590-D6C1	6	6	1.8	-69	3.379	3
E200-9037-8902-0050-0580-DA24	16	16	4.8	-68	4.282	3
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	44.988	2

Percobaan 9.

E200-3411-B802-0110-3300-7335	715	715	15.9	-49	44.946	44.947	1
E200-9037-8902-0048-0590-D6B5	732	732	16.3	-41	44.943	44.941	1
E200-3411-B802-0110-3300-7268	725	725	16.1	-46	44.95	44.947	1
E200-9037-8902-0050-0590-D6BD	732	732	16.3	-49	44.945	44.941	1
E200-9037-8902-0051-0580-DA28	728	728	16.2	-50	44.948	44.943	1
E200-3411-B802-0110-3300-7369	729	729	16.2	-47	44.947	44.941	1
E200-9037-8902-0051-0590-D6C1	729	729	16.2	-55	44.958	44.948	1
E200-9037-8902-0050-0580-DA24	661	661	14.7	-47	44.954	44.944	1
E200-9037-8902-0063-0590-D6F1	612	612	13.6	-43	44.944	44.923	1
E200-9037-8902-0046-0590-D6AD	720	720	16	-43	44.952	44.93	1
E200-9037-8902-0050-0590-D6BD	732	732	16.3	-53	44.984	44.948	2
E200-3411-B802-0110-3300-7335	716	716	15.9	-52	44.993	44.956	2
E200-9037-8902-0050-0580-DA24	689	689	15.3	-49	44.987	44.948	2
E200-9037-8902-0051-0590-D6C1	732	732	16.3	-60	44.991	44.952	2

E200-9037-8902-0063-0590-D6F1	720	720	16	-41	44.986	44.945	2
E200-9037-8902-0051-0580-DA28	695	695	15.5	-56	44.989	44.948	2
E200-9037-8902-0048-0590-D6B5	732	732	16.3	-48	44.99	44.947	2
E200-3411-B802-0110-3300-7369	732	732	16.3	-49	44.996	44.951	2
E200-9037-8902-0046-0590-D6AD	731	731	16.3	-46	44.992	44.947	2
E200-3411-B802-0110-3300-7268	687	687	15.3	-49	44.859	44.813	2
E200-9037-8902-0048-0590-D6B5	729	729	16.2	-55	45.028	44.954	3
E200-3411-B802-0110-3300-7369	722	722	16.1	-53	45.033	44.959	3
E200-3411-B802-0110-3300-7335	506	506	11.3	-53	45.034	44.959	3
E200-9037-8902-0051-0580-DA28	724	724	16.1	-45	45.032	44.955	3
E200-9037-8902-0050-0590-D6BD	731	731	16.3	-56	45.023	44.945	3
E200-9037-8902-0046-0590-D6AD	731	731	16.3	-45	45.027	44.948	3
E200-3411-B802-0110-3300-7268	713	713	15.9	-49	45.026	44.946	3
E200-9037-8902-0050-0580-DA24	639	639	14.2	-50	45.029	44.948	3
E200-9037-8902-0063-0590-D6F1	194	194	4.3	-43	45.024	44.935	3
E200-9037-8902-0051-0590-D6C1	102	102	12.6	-64	45.029	8.07	3
E200-9037-8902-0047-0590-D6B1	38	38	14.6	-44	45.031	2.602	3
E200-9037-8902-0047-0590-D6B1	38	38	15.2	-36	44.953	2.498	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	44.988	2.494	2

Percobaan 10.

E200-3411-B802-0110-3300-7335	92	92	15.2	-47	6.037	1
E200-3411-B802-0110-3300-7369	92	92	15.3	-56	6.031	1
E200-3411-B802-0110-3300-7268	92	92	15.2	-57	6.037	1
E200-9037-8902-0047-0590-D6B1	91	91	15.1	-56	6.031	1
E200-9037-8902-0048-0590-D6B5	91	91	15.1	-50	6.031	1
E200-9037-8902-0050-0590-D6BD	90	90	14.9	-52	6.028	1
E200-9037-8902-0050-0580-DA24	91	91	15.1	-52	6.024	1

E200-9037-8902-0063-0590-D6F1	91	91	15.1	-56	6.017	1
E200-9037-8902-0051-0590-D6C1	91	91	15.1	-56	6.017	1
E200-3411-B802-0110-3300-7369	92	92	15.2	-58	6.054	2
E200-9037-8902-0051-0590-D6C1	92	92	15.2	-62	6.046	2
E200-9037-8902-0048-0590-D6B5	92	92	15.2	-60	6.053	2
E200-3411-B802-0110-3300-7335	92	92	15.2	-58	6.043	2
E200-9037-8902-0050-0590-D6BD	78	78	12.9	-62	6.053	2
E200-3411-B802-0110-3300-7268	92	92	15.2	-54	6.043	2
E200-9037-8902-0063-0590-D6F1	87	87	14.4	-67	6.05	2
E200-9037-8902-0047-0590-D6B1	90	90	14.9	-65	6.047	2
E200-9037-8902-0051-0580-DA28	89	89	14.8	-57	6.034	2
E200-9037-8902-0063-0590-D6F1	88	88	14.6	-63	6.036	3
E200-9037-8902-0047-0590-D6B1	89	89	14.8	-63	6.029	3
E200-9037-8902-0050-0590-D6BD	64	64	10.6	-64	6.031	3
E200-9037-8902-0051-0590-D6C1	89	89	14.8	-61	6.031	3
E200-9037-8902-0051-0580-DA28	87	87	14.4	-62	6.024	3
E200-9037-8902-0050-0580-DA24	87	87	14.4	-58	6.032	3
E200-3411-B802-0110-3300-7268	89	89	14.8	-53	6.03	3
E200-9037-8902-0046-0590-D6AD	89	89	14.8	-58	6.024	3
E200-3411-B802-0110-3300-7335	59	59	9.8	-62	6.018	3
E200-3411-B802-0110-3300-7369	89	89	14.8	-59	6.02	3
E200-9037-8902-0048-0590-D6B5	87	87	14.4	-61	6.026	3
E200-9037-8902-0046-0590-D6AD	4	4	1.5	-69	2.724	2
E200-9037-8902-0051-0580-DA28	32	32	13.1	-62	2.443	1
E200-9037-8902-0046-0590-D6AD	12	12	7.5	-66	1.598	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

Percobaan 11.

E200-9037-8902-0051-0590-D6C1	128	128	13.9	-55	9.226	1
E200-3411-B802-0110-3300-7268	134	134	14.5	-50	9.228	1
E200-3411-B802-0110-3300-7369	134	134	14.5	-51	9.236	1
E200-9037-8902-0051-0580-DA28	134	134	14.5	-55	9.225	1
E200-9037-8902-0063-0590-D6F1	133	133	14.4	-52	9.221	1
E200-3411-B802-0110-3300-7335	128	128	13.9	-47	9.224	1
E200-9037-8902-0050-0590-D6BD	134	134	14.5	-53	9.22	1
E200-9037-8902-0047-0590-D6B1	132	132	14.3	-54	9.226	1
E200-9037-8902-0048-0590-D6B5	134	134	14.5	-50	9.221	1
E200-9037-8902-0050-0580-DA24	134	134	14.5	-51	9.224	1
E200-9037-8902-0046-0590-D6AD	130	130	14.1	-61	9.226	2
E200-9037-8902-0051-0590-D6C1	136	136	14.7	-61	9.227	2
E200-9037-8902-0051-0580-DA28	136	136	14.7	-57	9.221	2

E200-9037-8902-0047-0590-D6B1	116	116	14.4	-59	8.032	2
E200-3411-B802-0110-3300-7369	136	136	14.7	-54	9.222	2
E200-3411-B802-0110-3300-7268	136	136	14.8	-49	9.218	2
E200-3411-B802-0110-3300-7335	136	136	14.7	-57	9.222	2
E200-9037-8902-0048-0590-D6B5	110	110	14.7	-60	7.486	2
E200-9037-8902-0050-0590-D6BD	99	99	10.9	-62	9.072	2
E200-3411-B802-0110-3300-7268	136	136	14.7	-53	9.224	3
E200-9037-8902-0046-0590-D6AD	135	135	14.6	-58	9.221	3
E200-3411-B802-0110-3300-7335	136	136	14.7	-55	9.222	3
E200-9037-8902-0050-0590-D6BD	133	133	14.4	-56	9.215	3
E200-9037-8902-0050-0580-DA24	134	134	14.5	-59	9.221	3
E200-9037-8902-0051-0590-D6C1	136	136	14.7	-58	9.222	3
E200-9037-8902-0048-0590-D6B5	136	136	14.8	-59	9.22	3
E200-9037-8902-0047-0590-D6B1	116	116	13.1	-60	8.843	3
E200-3411-B802-0110-3300-7369	126	126	14.1	-55	8.939	3
E200-9037-8902-0063-0590-D6F1	121	121	13.1	-61	9.213	3
E200-9037-8902-0046-0590-D6AD	33	33	4.5	-65	7.368	1
E200-9037-8902-0051-0580-DA28	46	46	7.2	-55	6.425	3
E200-9037-8902-0046-0590-D6AD	12	12	7.5	-66	1.598	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

Percobaan 12.

E200-3411-B802-0110-3300-7335	92	92	15.2	-47	6.037	1
E200-3411-B802-0110-3300-7369	92	92	15.3	-56	6.031	1
E200-3411-B802-0110-3300-7268	92	92	15.2	-57	6.037	1
E200-9037-8902-0047-0590-D6B1	91	91	15.1	-56	6.031	1
E200-9037-8902-0048-0590-D6B5	91	91	15.1	-50	6.031	1
E200-9037-8902-0050-0590-D6BD	90	90	14.9	-52	6.028	1
E200-9037-8902-0050-0580-DA24	91	91	15.1	-52	6.024	1
E200-9037-8902-0063-0590-D6F1	91	91	15.1	-56	6.017	1
E200-9037-8902-0051-0590-D6C1	91	91	15.1	-56	6.017	1
E200-3411-B802-0110-3300-7369	92	92	15.2	-58	6.054	2
E200-9037-8902-0051-0590-D6C1	92	92	15.2	-62	6.046	2
E200-9037-8902-0048-0590-D6B5	92	92	15.2	-60	6.053	2
E200-3411-B802-0110-3300-7335	92	92	15.2	-58	6.043	2
E200-9037-8902-0050-0590-D6BD	78	78	12.9	-62	6.053	2
E200-3411-B802-0110-3300-7268	92	92	15.2	-54	6.043	2
E200-9037-8902-0063-0590-D6F1	87	87	14.4	-67	6.05	2
E200-9037-8902-0047-0590-D6B1	90	90	14.9	-65	6.047	2
E200-9037-8902-0051-0580-DA28	89	89	14.8	-57	6.034	2
E200-9037-8902-0063-0590-D6F1	88	88	14.6	-63	6.036	3
E200-9037-8902-0047-0590-D6B1	89	89	14.8	-63	6.029	3
E200-9037-8902-0050-0590-D6BD	64	64	10.6	-64	6.031	3

E200-9037-8902-0051-0590-D6C1	89	89	14.8	-61	6.031	3
E200-9037-8902-0051-0580-DA28	87	87	14.4	-62	6.024	3
E200-9037-8902-0050-0580-DA24	87	87	14.4	-58	6.032	3
E200-3411-B802-0110-3300-7268	89	89	14.8	-53	6.03	3
E200-9037-8902-0046-0590-D6AD	89	89	14.8	-58	6.024	3
E200-3411-B802-0110-3300-7335	59	59	9.8	-62	6.018	3
E200-3411-B802-0110-3300-7369	89	89	14.8	-59	6.02	3
E200-9037-8902-0048-0590-D6B5	87	87	14.4	-61	6.026	3
E200-9037-8902-0046-0590-D6AD	4	4	1.5	-69	2.724	2
E200-9037-8902-0051-0580-DA28	32	32	13.1	-62	2.443	1
E200-9037-8902-0046-0590-D6AD	12	12	7.5	-66	1.598	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

Percobaan 13.

E200-3411-B802-0110-3300-7268	93	93	14.6	-49	6.379	1
E200-3411-B802-0110-3300-7369	92	92	14.7	-56	6.263	1
E200-9037-8902-0050-0580-DA24	93	93	14.6	-51	6.38	1
E200-3411-B802-0110-3300-7335	93	93	14.6	-47	6.383	1
E200-9037-8902-0047-0590-D6B1	93	93	14.6	-58	6.372	1
E200-9037-8902-0050-0590-D6BD	93	93	14.6	-54	6.377	1
E200-9037-8902-0063-0590-D6F1	94	94	14.7	-56	6.39	1
E200-9037-8902-0046-0590-D6AD	90	90	14.1	-58	6.388	1
E200-9037-8902-0048-0590-D6B5	94	94	14.7	-52	6.393	1
E200-9037-8902-0051-0590-D6C1	94	94	14.7	-57	6.392	1
E200-9037-8902-0051-0580-DA28	92	92	14.4	-62	6.395	1
E200-9037-8902-0047-0590-D6B1	88	88	14.4	-64	6.12	2
E200-9037-8902-0051-0580-DA28	92	92	14.4	-55	6.375	2
E200-3411-B802-0110-3300-7335	93	93	14.6	-55	6.373	2
E200-9037-8902-0048-0590-D6B5	93	93	14.6	-57	6.374	2
E200-3411-B802-0110-3300-7268	93	93	14.6	-50	6.372	2
E200-9037-8902-0046-0590-D6AD	93	93	14.6	-61	6.366	2
E200-3411-B802-0110-3300-7369	93	93	14.6	-53	6.366	2
E200-9037-8902-0050-0580-DA24	57	57	9.3	-67	6.115	2
E200-9037-8902-0051-0590-D6C1	93	93	14.6	-65	6.37	2
E200-9037-8902-0050-0590-D6BD	2	2	308.4	-67	0.006	2
E200-3411-B802-0110-3300-7268	92	92	14.7	-51	6.262	3
E200-9037-8902-0047-0590-D6B1	92	92	14.7	-58	6.258	3
E200-9037-8902-0063-0590-D6F1	92	92	14.7	-66	6.254	3
E200-9037-8902-0050-0590-D6BD	92	92	14.7	-55	6.26	3
E200-3411-B802-0110-3300-7369	92	92	14.7	-56	6.247	3
E200-3411-B802-0110-3300-7335	92	92	14.7	-54	6.257	3
E200-9037-8902-0048-0590-D6B5	92	92	14.7	-57	6.248	3
E200-9037-8902-0051-0580-DA28	94	94	14.7	-62	6.388	3

E200-9037-8902-0050-0580-DA24	90	90	14.1	-60	6.381	3
E200-9037-8902-0046-0590-D6AD	94	94	14.7	-53	6.382	3
E200-9037-8902-0046-0590-D6AD	12	12	7.5	-66	1.598	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

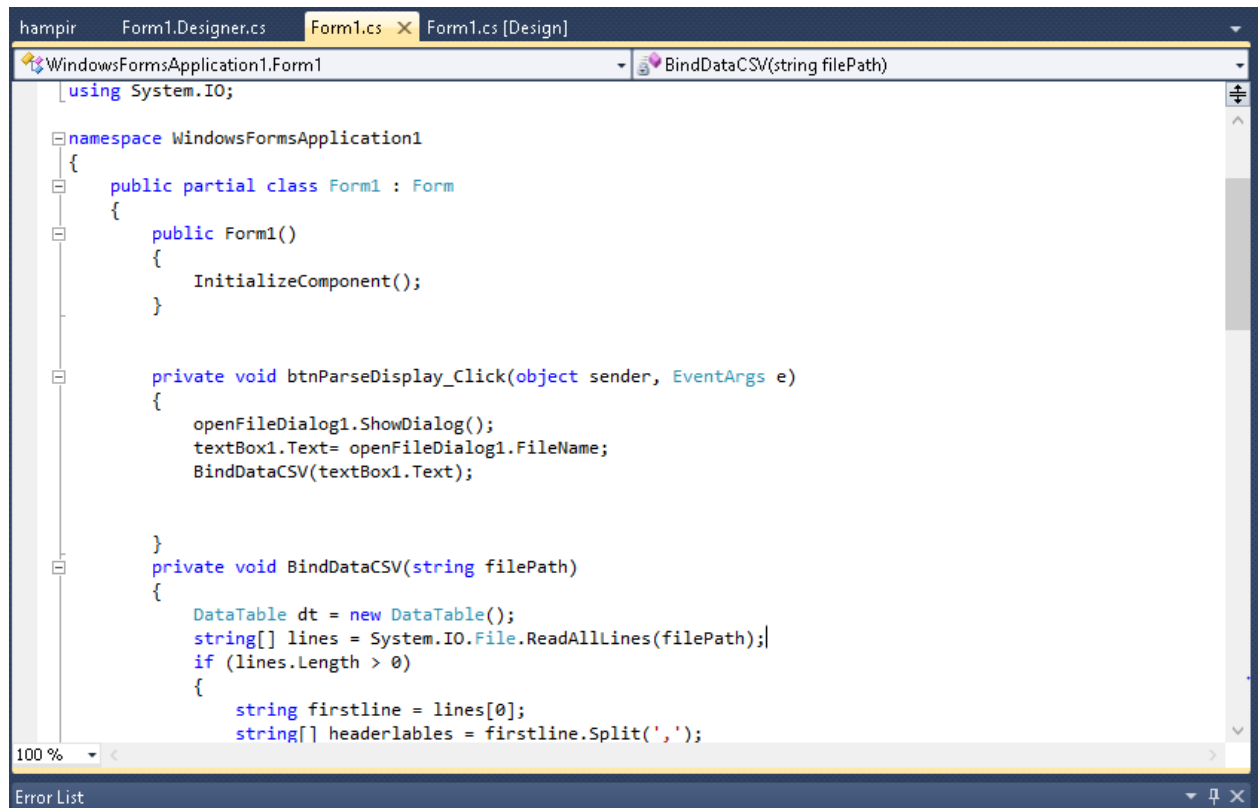
Percobaan 14.

E200-9037-8902-0046-0590-D6AD	24	24	16.2	-58	1.483	1
E200-9037-8902-0048-0590-D6B5	24	24	16.1	-52	1.495	1
E200-9037-8902-0050-0590-D6BD	24	24	16.1	-57	1.49	1
E200-9037-8902-0063-0590-D6F1	24	24	16.2	-56	1.483	1
E200-3411-B802-0110-3300-7335	24	24	16.2	-49	1.486	1
E200-3411-B802-0110-3300-7268	24	24	16.2	-49	1.479	1
E200-9037-8902-0050-0580-DA24	24	24	16.3	-51	1.474	1
E200-9037-8902-0047-0590-D6B1	24	24	16.2	-60	1.478	1
E200-9037-8902-0051-0580-DA28	15	15	12.6	-66	1.188	1
E200-9037-8902-0051-0590-D6C1	24	24	16.2	-58	1.478	1
E200-3411-B802-0110-3300-7369	24	24	16.3	-60	1.472	1
E200-3411-B802-0110-3300-7369	22	22	16.3	-54	1.353	2
E200-9037-8902-0063-0590-D6F1	11	11	10.1	-68	1.089	2
E200-3411-B802-0110-3300-7268	22	22	16.4	-50	1.34	2
E200-9037-8902-0050-0590-D6BD	3	3	23	-69	0.131	2
E200-9037-8902-0048-0590-D6B5	22	22	16.4	-58	1.342	2
E200-9037-8902-0046-0590-D6AD	21	21	15.7	-63	1.338	2
E200-3411-B802-0110-3300-7335	22	22	16.5	-55	1.336	2
E200-9037-8902-0051-0580-DA28	21	21	15.8	-56	1.333	2
E200-9037-8902-0051-0590-D6C1	22	22	16.5	-66	1.335	2
E200-3411-B802-0110-3300-7268	22	22	16.1	-53	1.364	3
E200-9037-8902-0048-0590-D6B5	22	22	16.2	-58	1.362	3
E200-9037-8902-0047-0590-D6B1	22	22	16.3	-59	1.353	3
E200-3411-B802-0110-3300-7369	22	22	16.2	-57	1.356	3
E200-9037-8902-0050-0580-DA24	22	22	16.3	-60	1.35	3
E200-9037-8902-0046-0590-D6AD	22	22	16.3	-54	1.353	3
E200-9037-8902-0051-0590-D6C1	22	22	16.2	-61	1.359	3
E200-3411-B802-0110-3300-7335	22	22	16.3	-54	1.349	3
E200-9037-8902-0050-0590-D6BD	21	21	15.5	-55	1.351	3
E200-9037-8902-0063-0590-D6F1	21	21	15.5	-66	1.355	3
E200-9037-8902-0051-0580-DA28	22	22	16.3	-63	1.346	3
E200-9037-8902-0046-0590-D6AD	12	12	7.5	-66	1.598	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

Percobaan 15.

E200-3411-B802-0110-3300-7369	52	52	15.7	-60	3.313	1
E200-3411-B802-0110-3300-7335	52	52	15.7	-49	3.31	1
E200-9037-8902-0051-0590-D6C1	52	52	15.7	-58	3.31	1
E200-3411-B802-0110-3300-7268	52	52	15.7	-49	3.313	1
E200-9037-8902-0050-0580-DA24	52	52	15.7	-51	3.303	1
E200-9037-8902-0050-0590-D6BD	52	52	15.7	-57	3.309	1
E200-9037-8902-0046-0590-D6AD	52	52	15.8	-58	3.299	1
E200-9037-8902-0047-0590-D6B1	52	52	15.8	-59	3.297	1
E200-9037-8902-0063-0590-D6F1	52	52	15.8	-56	3.299	1
E200-9037-8902-0048-0590-D6B5	52	52	15.8	-52	3.298	1
E200-9037-8902-0048-0590-D6B5	50	50	15.8	-58	3.167	2
E200-9037-8902-0051-0580-DA28	48	48	15.2	-56	3.161	2
E200-9037-8902-0050-0580-DA24	45	45	14.2	-67	3.158	2
E200-3411-B802-0110-3300-7335	50	50	15.9	-55	3.151	2
E200-3411-B802-0110-3300-7268	50	50	15.8	-50	3.16	2
E200-9037-8902-0047-0590-D6B1	41	41	13	-67	3.151	2
E200-9037-8902-0051-0590-D6C1	50	50	15.9	-67	3.152	2
E200-3411-B802-0110-3300-7369	50	50	15.9	-54	3.147	2
E200-9037-8902-0046-0590-D6AD	50	50	15.9	-62	3.153	2
E200-9037-8902-0051-0580-DA28	50	50	15.8	-63	3.16	3
E200-9037-8902-0050-0580-DA24	50	50	15.8	-60	3.164	3
E200-9037-8902-0051-0590-D6C1	50	50	15.8	-60	3.16	3
E200-9037-8902-0050-0590-D6BD	49	49	15.5	-55	3.164	3
E200-9037-8902-0063-0590-D6F1	47	47	14.9	-66	3.164	3
E200-9037-8902-0046-0590-D6AD	50	50	15.8	-53	3.16	3
E200-3411-B802-0110-3300-7369	50	50	15.8	-57	3.156	3
E200-9037-8902-0047-0590-D6B1	49	49	15.6	-59	3.149	3
E200-9037-8902-0048-0590-D6B5	50	50	15.9	-57	3.147	3
E200-3411-B802-0110-3300-7335	50	50	15.9	-53	3.149	3
E200-3411-B802-0110-3300-7268	50	50	15.9	-54	3.142	3
E200-9037-8902-0051-0580-DA28	30	30	10.9	-66	2.752	1
E200-9037-8902-0046-0590-D6AD	12	12	7.5	-66	1.598	1
E200-9037-8902-0047-0590-D6B1	36	36	14.4	-45	2.494	2

Lampiran A-5. Program penampil perhitungan.

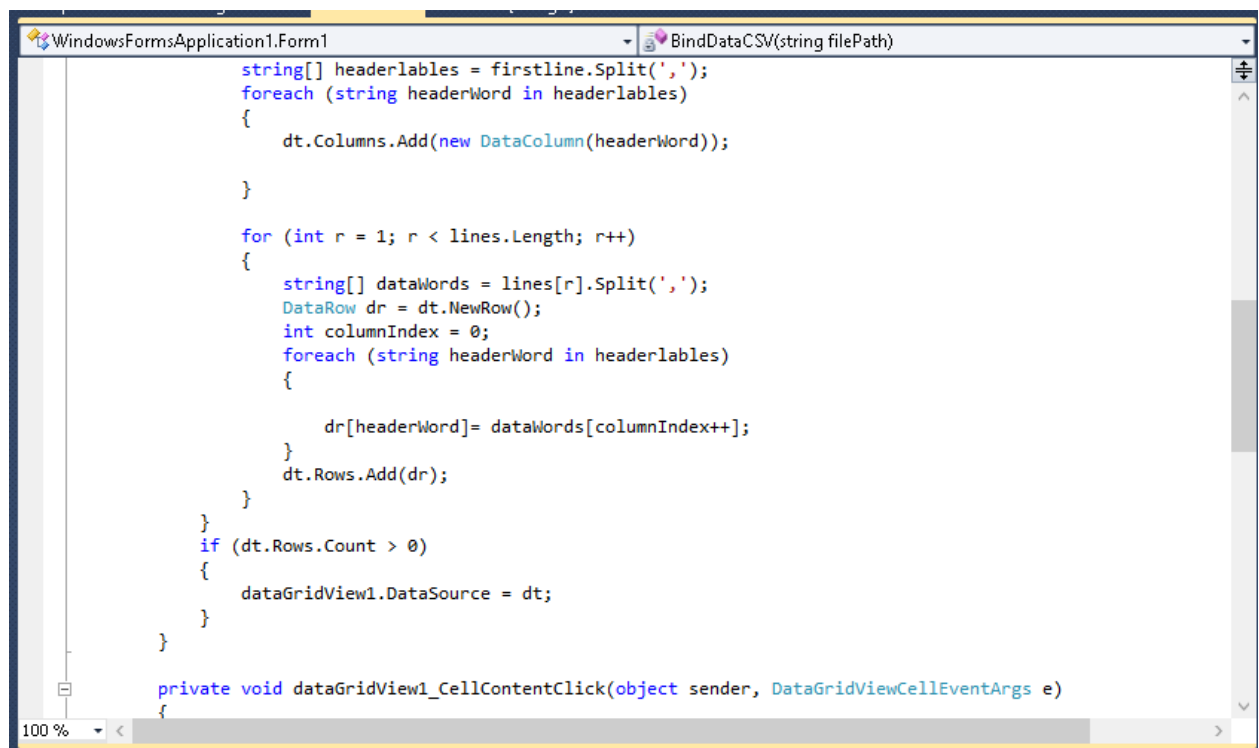


```
hampir Form1.Designer.cs Form1.cs X Form1.cs [Design]
WindowsFormsApplication1.Form1 BindDataCSV(string filePath)
using System.IO;

namespace WindowsFormsApplication1
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void btnParseDisplay_Click(object sender, EventArgs e)
        {
            openFileDialog1.ShowDialog();
            textBox1.Text= openFileDialog1.FileName;
            BindDataCSV(textBox1.Text);
        }

        private void BindDataCSV(string filePath)
        {
            DataTable dt = new DataTable();
            string[] lines = System.IO.File.ReadAllLines(filePath);
            if (lines.Length > 0)
            {
                string firstline = lines[0];
                string[] headerlables = firstline.Split(',');
```



```
string[] headerlables = firstline.Split(',');
foreach (string headerWord in headerlables)
{
    dt.Columns.Add(new DataColumn(headerWord));
}

for (int r = 1; r < lines.Length; r++)
{
    string[] dataWords = lines[r].Split(',');
    DataRow dr = dt.NewRow();
    int columnIndex = 0;
    foreach (string headerWord in headerlables)
    {
        dr[headerWord]= dataWords[columnIndex++];
    }
    dt.Rows.Add(dr);
}
if (dt.Rows.Count > 0)
{
    dataGridView1.DataSource = dt;
}
}

private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs e)
{
}
```

```
WindowsFormsApplication1.Form1 BindDataCSV(string filePath)
{
    private void dataGridView1_CellContentClick(object sender, DataGridViewCellEventArgs e)
    {
    }

    private void button1_Click(object sender, EventArgs e)
    {
        this.Close();
    }

    private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
    {
    }
}

}

100 %
Error List
```