

Student_proj1_Switched_DCDC_20250526 _unit_on_load_equal_5V_typ3A

Hardware Setup(s)

RE - 30 to 6000MHz HL562E

Frequency Range 30 MHz - 6 GHz

System Control None

Receiver ESW 44 [ESW44 Receiver]
Serial Number: 1328.4100K44/101811
Firmware Version: 3.20-23.11.7.103 Beta
Cal. valid until: 2022-07-29
Interface: TCPIP
Address TCPIP0::169.254.171.99::inst0::INSTR

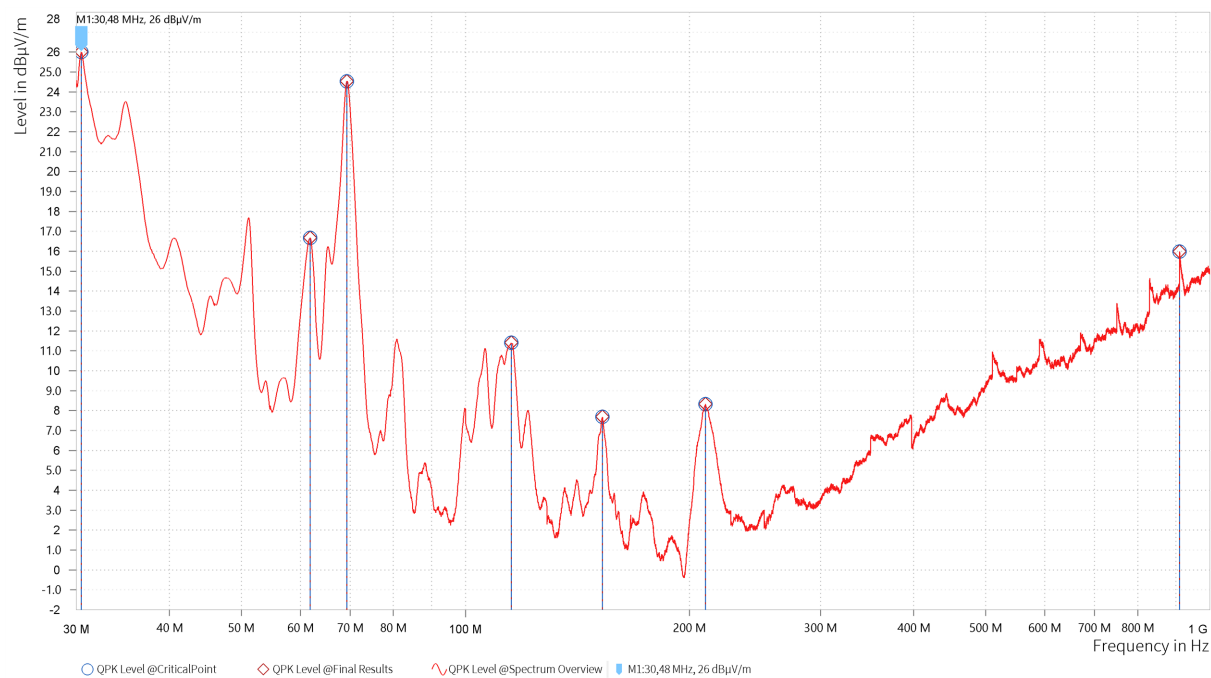
Signal Path EMI 30MHz to 6GHz dBuVm
Serial Number:
Attenuation Table(s):
EMI 30-6000MHz HL562E
Switching Path:
EMI 30MHz to 6GHz

Antenna HL562E dBuV m [Transmitting and Receiving Antenna (TxRx ANT)]
Serial Number:
Cal. valid until: 2021-09-21
RF Parameters:
Max. Input Power: 900 W
Max. VSWR: 8
Cable Correction: Fixed Value, 0 dB
Antenna Factors:
Antenna Horizontal Factor Table:
HL562E 100803 dBuV m
Antenna Vertical Factor Table:
HL562E 100803 dBuV m
Tower Height Control:
Automatic Tower: Maturo Antenna Tower
Tower Polarization Control:
Automatic Tower: Maturo Antenna Tower

RE - 30 to 6000MHz HL562E

Frequency Range	30 MHz - 6 GHz
Turntable	Turntable Serial Number: 4370215 Firmware Version: 1.30 Interface: GPIB Address GPIB0::7::INSTR Azimuth: Minimum: -90 deg Maximum: 400 deg Speed: Minimum: 1 Speed Level Maximum: 8 Speed Level
Antenna	None
[System Check]	
Signal Path	None
[System Check]	
Generator	None

Spectrum Overview



RE - HL562E, 30M-1GHz

Hardware Setup Scheme	EMI Radiated Electric Field Strength [dBµV/m]		
Frequency Range	State	Limit Line	Receiver Mode
1: 30 MHz - 1 GHz	Active	None	Time Domain Scan

Measurement Steps Performed

Overview Measurement, Data Reduction

Overview Measurement

Measurement Settings

Frequency Range	Step Size	Detectors	Meas. BW	Meas. Time	Preamplifier
1: 30 MHz - 1 GHz	30 kHz	QPK	120 kHz	100 ms	20 dB

Final Measurement

Use Critical Points from Overview Measurement as Final Results

Hardware Setup (Rgx indicates Frequency Range in Template)

Frequency Range	Receiver	Antenna
Rg1: 30 MHz - 6 GHz	ESW 44	HL562E dBuV m

EMI Final Results

Rg	Frequency [MHz]	QPK Level [dBµV/m]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]	Meas. Time [ms]	Time of Meas.	Source	Comment
1	30,480	26,00	19,37	V	0	1,5	120,000	100,000	10:16:29	Critical Points	
1	61,830	16,68	6,19	V	0	1,5	120,000	100,000	10:16:29	Critical Points	
1	69,300	24,53	8,98	V	0	1,5	120,000	100,000	10:16:29	Critical Points	
1	115,170	11,41	11,93	V	0	1,5	120,000	100,000	10:16:29	Critical Points	
1	152,730	7,69	9,57	H	0	1,5	120,000	100,000	10:16:29	Critical Points	
1	210,090	8,33	9,90	H	0	1,5	120,000	100,000	10:16:29	Critical Points	
1	910,020	15,98	21,99	H	0	1,5	120,000	100,000	10:16:29	Critical Points	

External_supply over DC input to Maxwell chamber E3634A at 50V
Load typ 3A
Turn table only at 0 degree
Antenna height 1.5m
changing polarization between H and V