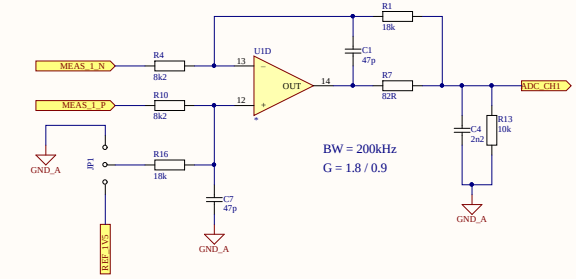
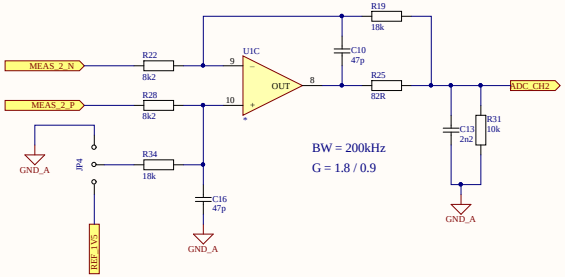
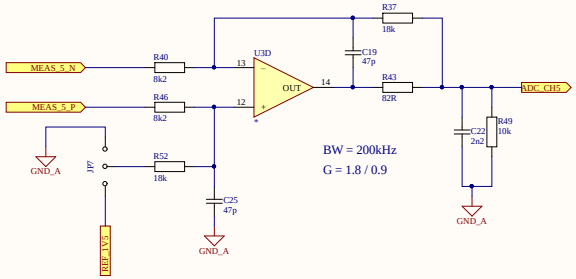
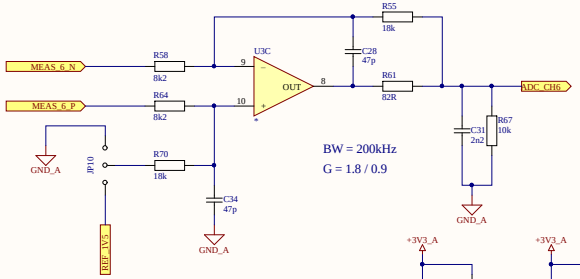
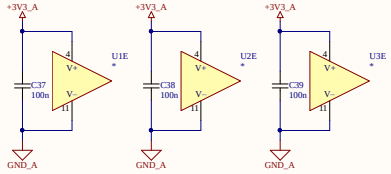
Differential to single end conversion

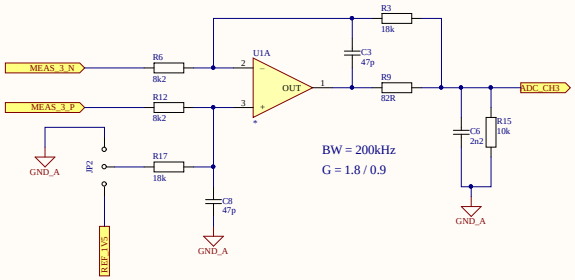


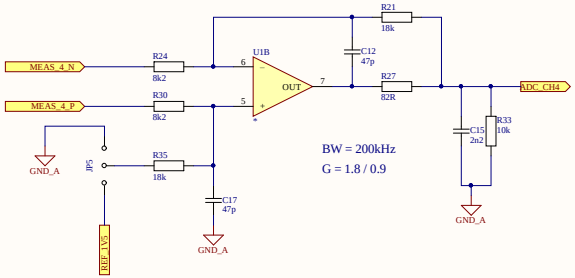


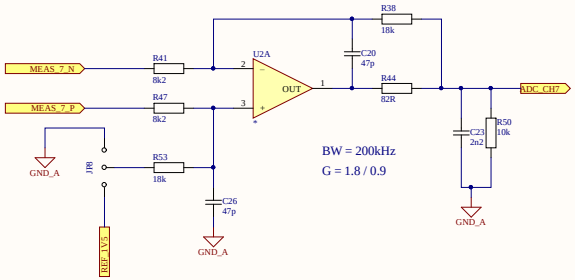


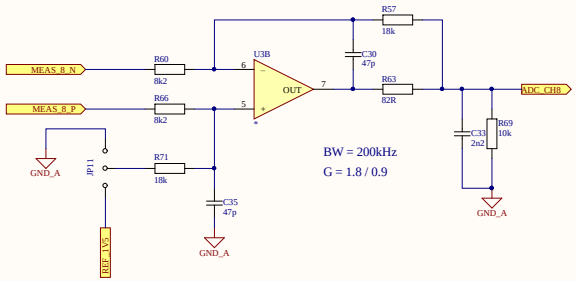


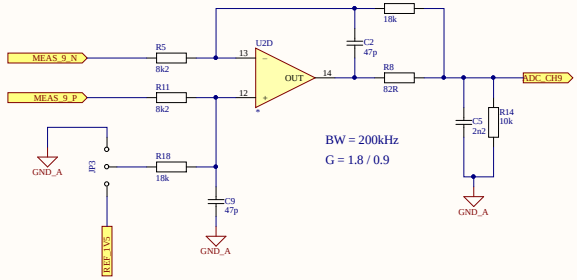


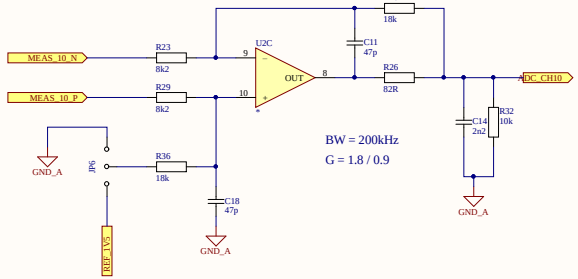


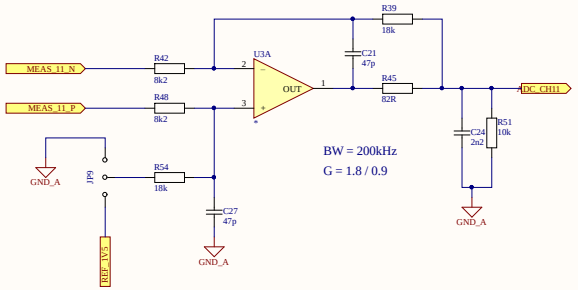


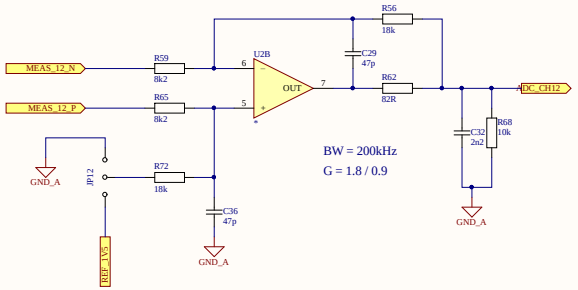












ANAlOG_MEZZANINE1.01.PrjPcb		Hes·SO VALAIS WALLIS
AD_0_V1_01.SchDoc		Date : 09.06.2021
Revision : 1.0	Sheet 1 of 6	Design by : Jean Nanchen
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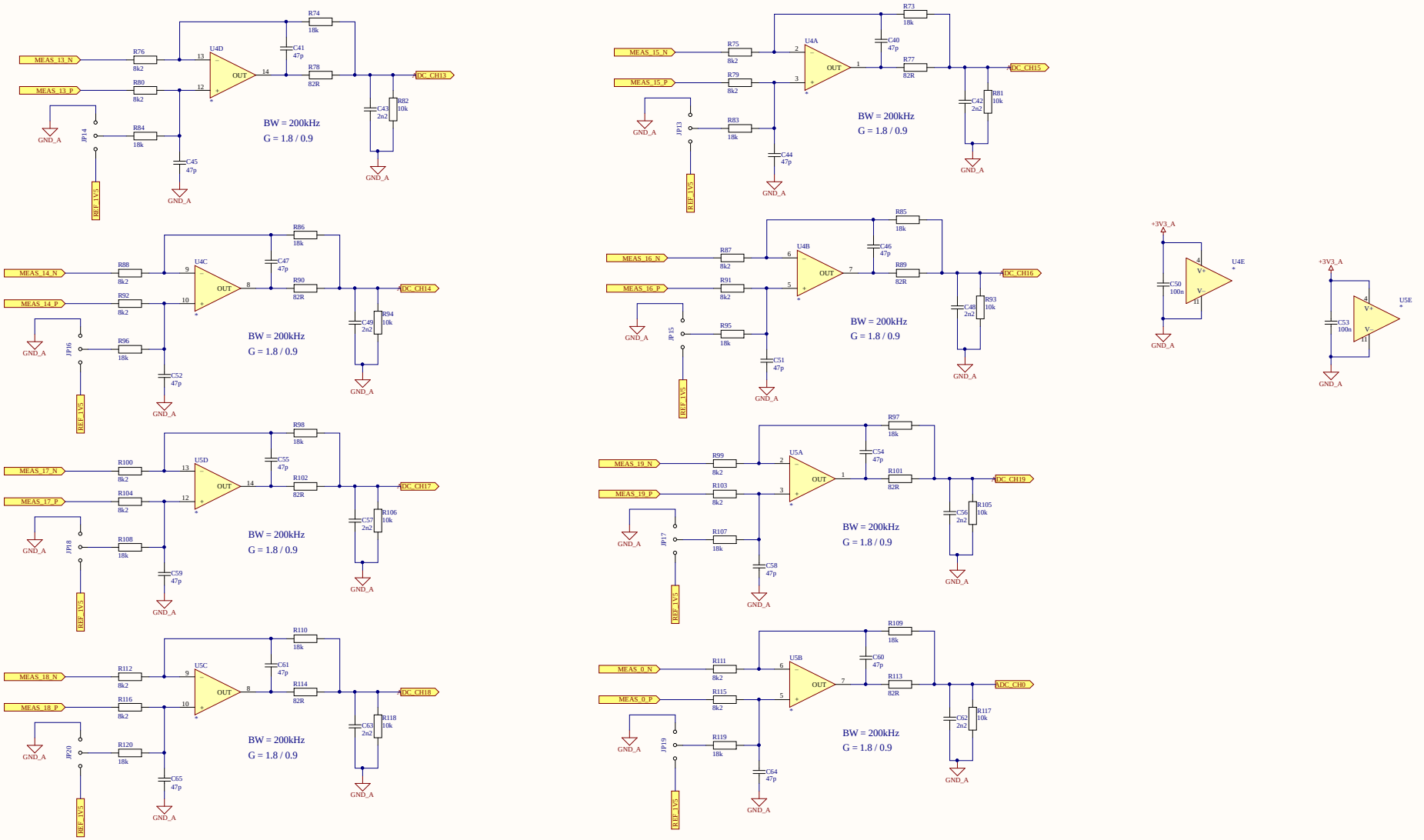
Differential to single end conversion



ANAlOG_MEZZANINE1.01.PrjPcb		Hes·SO VALAIS WALLIS
AD_1_V1_01.SchDoc		Date : 09.06.2021
Revision : 1.0	Sheet 2 of 6	Design by : Jean Nanchen
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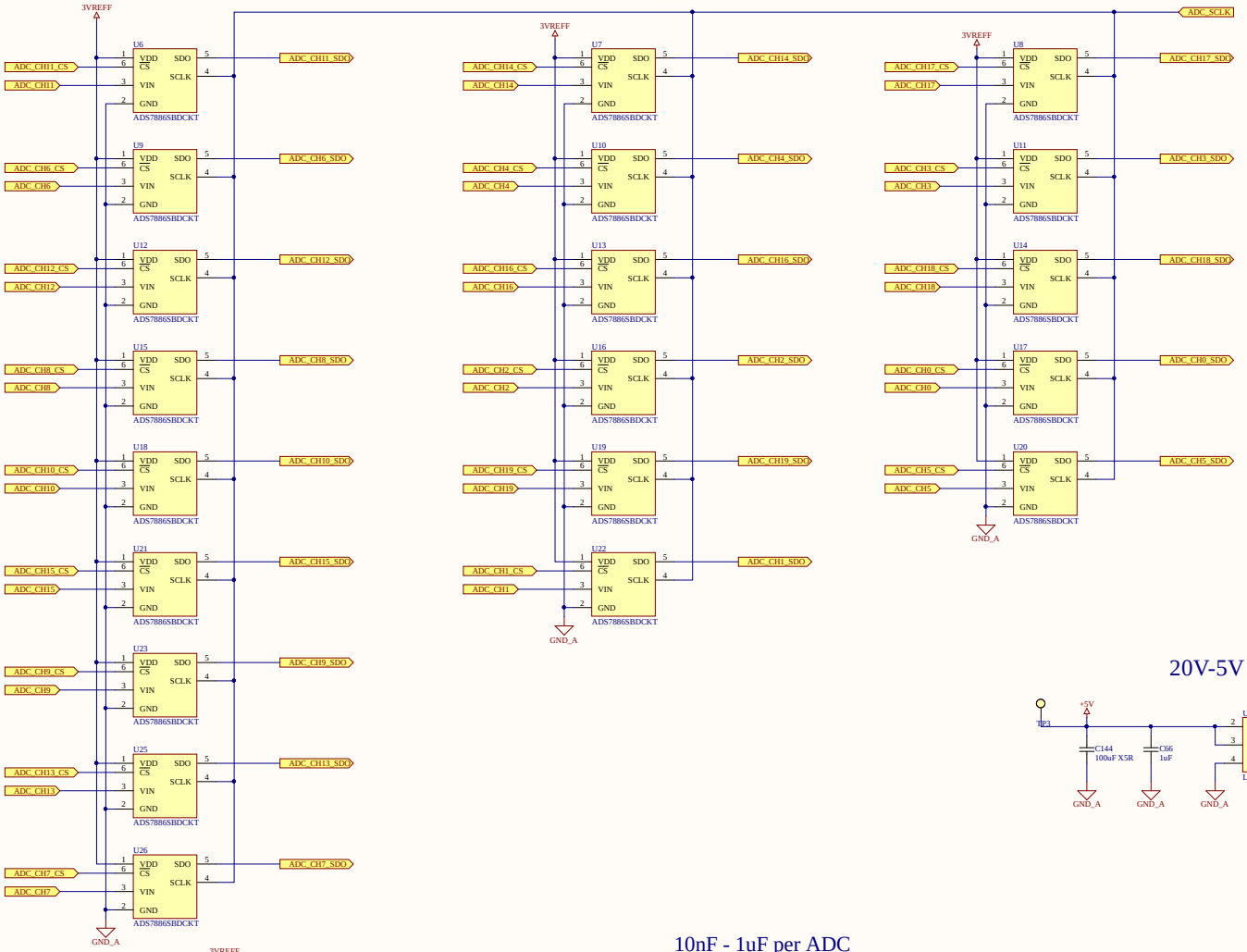
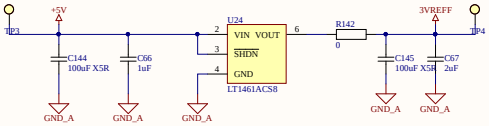
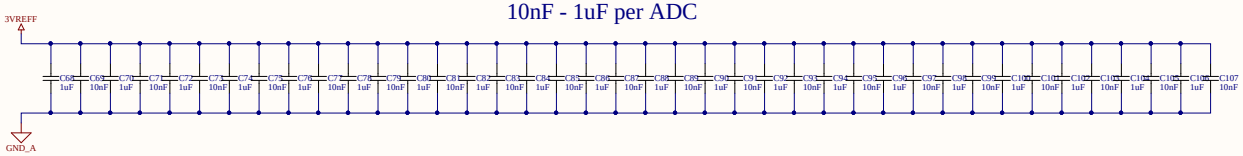
20 CHANNELS ADC @ 1MSPS ITOT = 30mA



20V-5V to 3VReff



10nF - 1uF per ADC



ANAlOG_MEZZANINE1.01.PrjPcb AD_3_V1_01.SchDoc		Hes·SO VALAIS WALLIS Date : 09.06.2021
Revision : 1.0	Sheet 3 of 6	Design by : Jean Nanchen
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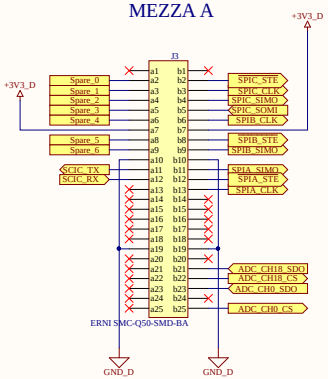
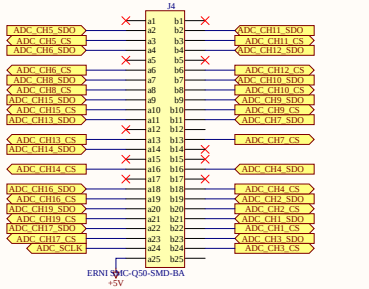
MEZZA A

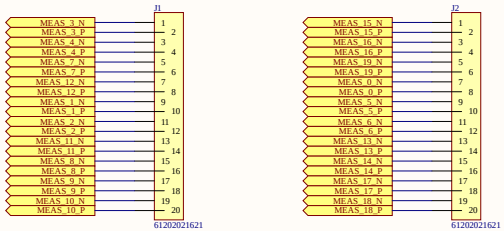


MEZZA B

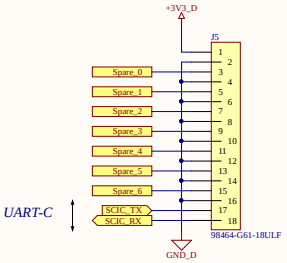
B14 IS NC !!!!!!!!!!!!



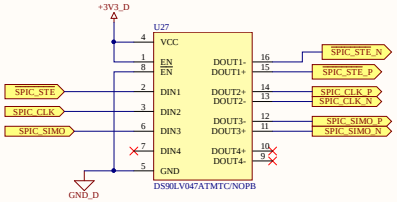
Connector for Analog Input Board

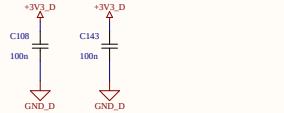


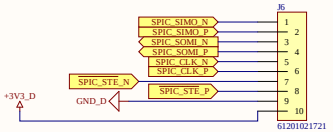
Spare connector



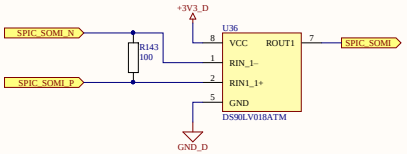
SPI-C with LVDS Driver







SPIOSOMI and LDAC not used for this application but already reserved



ANAlOG_MEZZANINE1.01.PrjPcb Connector_0_V1_01.SchDoc		Hes·SO VALAIS WALLIS Date : 09.06.2021
Revision : 1.0	Sheet 4 of 6	Design by : Jean Nanchen
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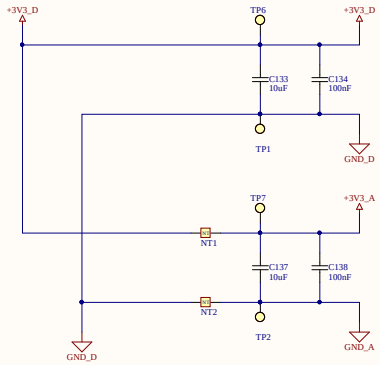
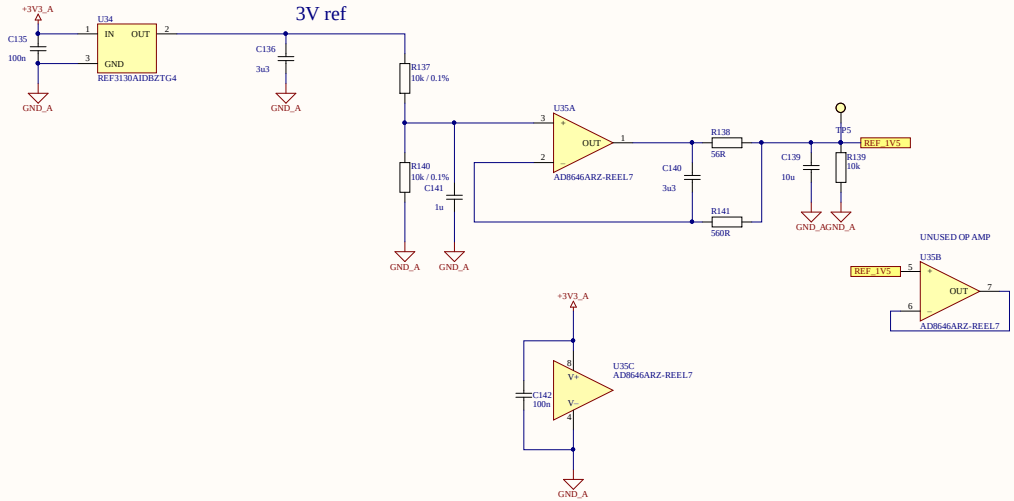
3V3 BackPlane ---------->3V3_D, 3V3_A



1.5V Reference

3V ref



ANAlOG_MEZZANINE1.01.PrjPcb Supply_0_V1_01.SchDoc		Hes·so VALAIS WALLIS Date : 09.06.2021
Revision : 1.0	Sheet 5 of 6	Design by : Jean Nanchen
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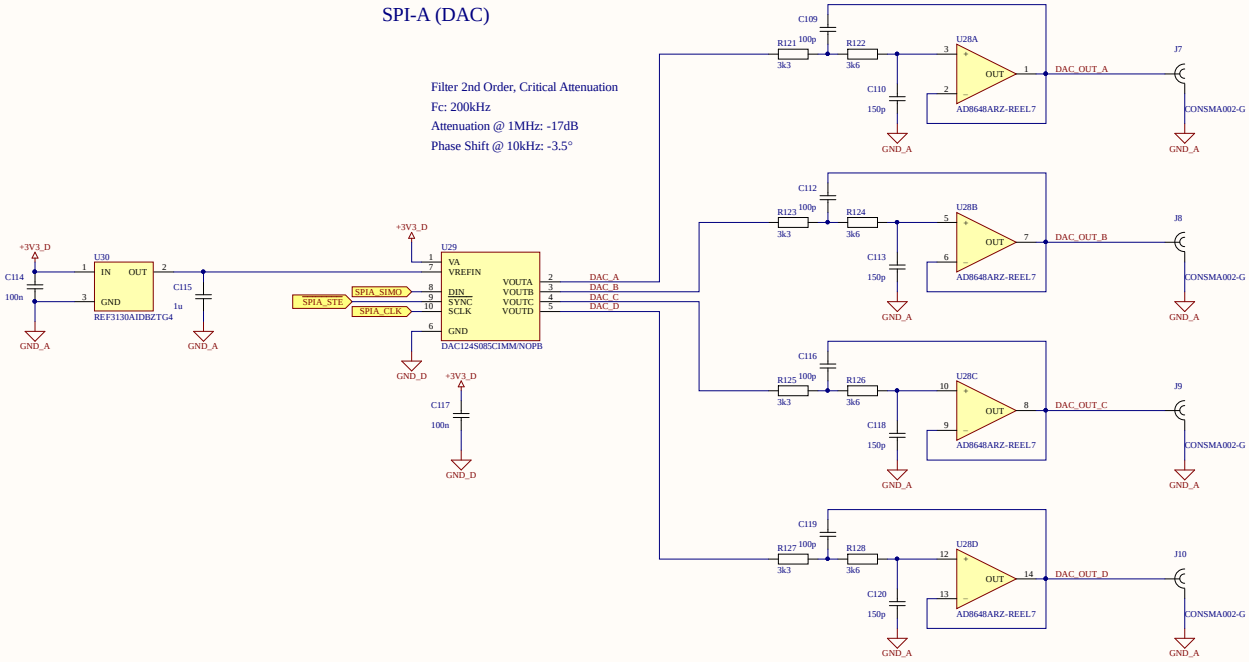
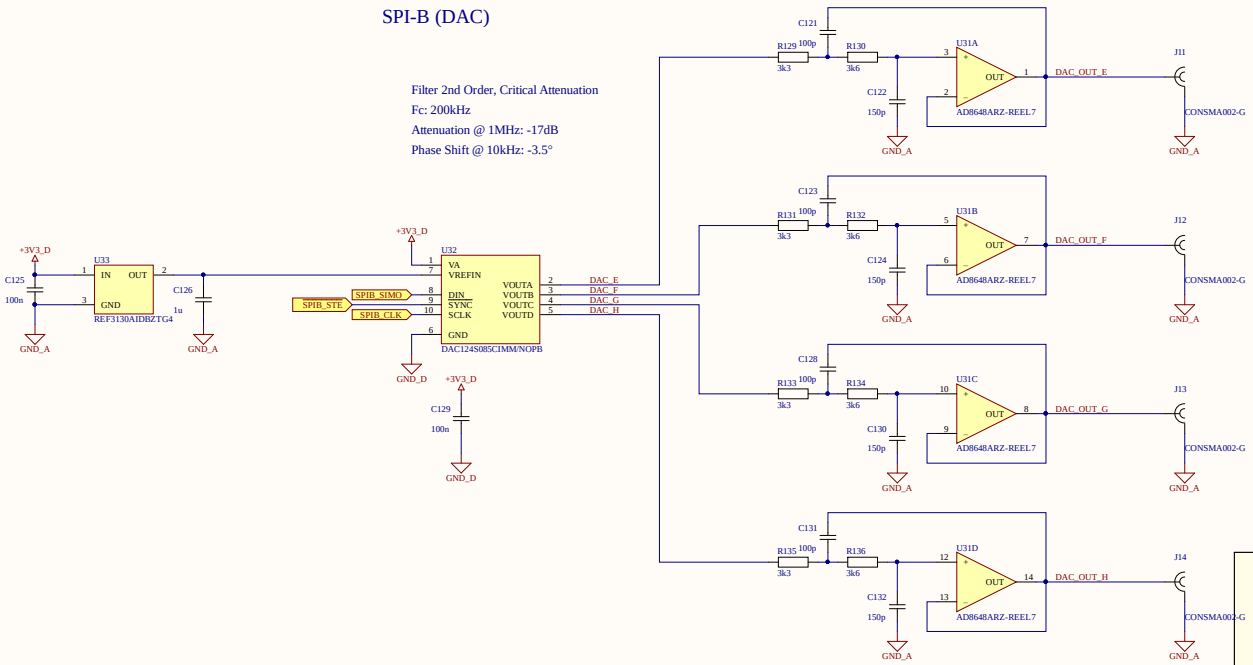
SPI-A (DAC)

Filter 2nd Order, Critical Attenuation
Fc: 200kHz
Attenuation @ 1MHz: -17dB
Phase Shift @ 10kHz: -3.5°



SPI-B (DAC)

Filter 2nd Order, Critical Attenuation
Fc: 200kHz
Attenuation @ 1MHz: -17dB
Phase Shift @ 10kHz: -3.5°



ANAlOG_MEZZANINE1.01.PrjPcb		Hes·so VALAIS WALLIS
DAC_0_V1_01.SchDoc		Date : 09.06.2021
Revision : 1.0	Sheet 6 of 6	Design by : Jean Nanchen
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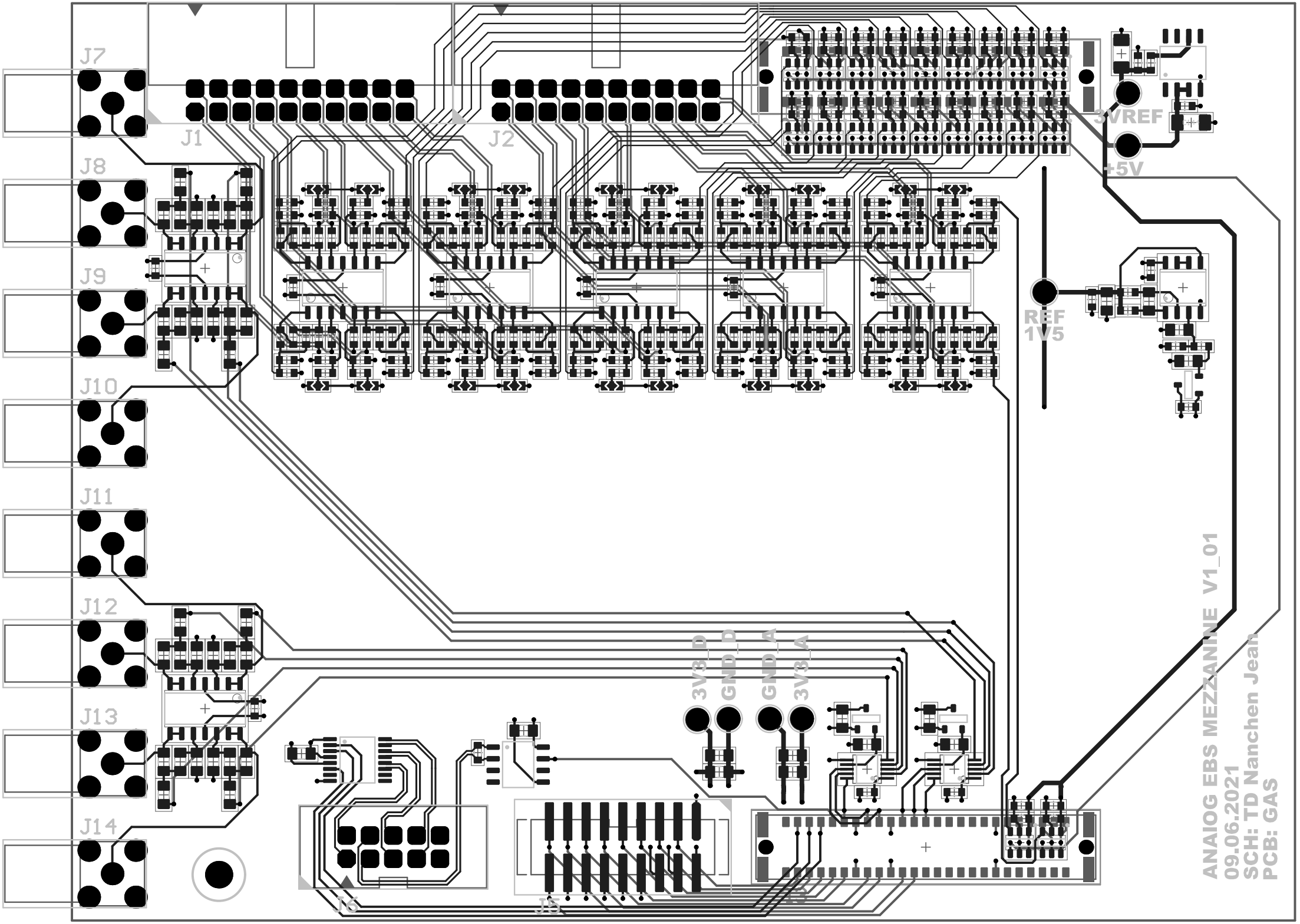
J7
J1
J2
J8
J9
J10
J11
J12
J13
J14
J6
J5
3VREF
+5V
REF
1V5
3V3_D
GND_D
GND_A
3V3_A
ANAlOG EBS MEZZANINE V1_01
09.06.2021
SCH: TD Nanchen Jean
PCB: GAS