SPD Datasheet

SPD type: gated   SPD Name: Alyonushka   Date: 02.12.2021
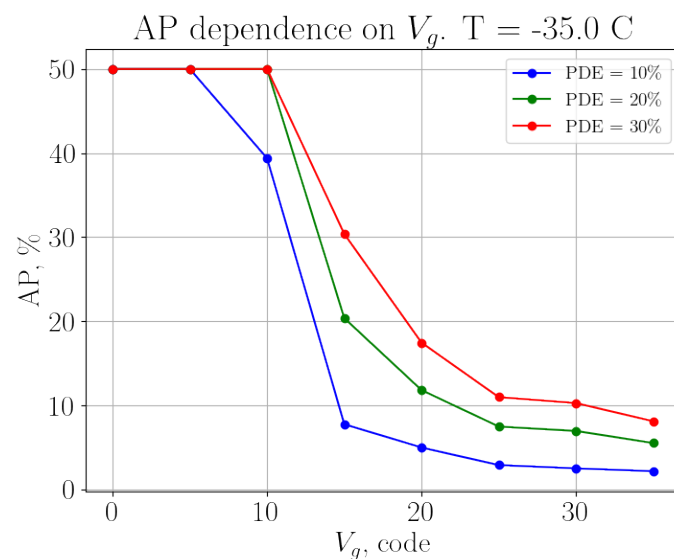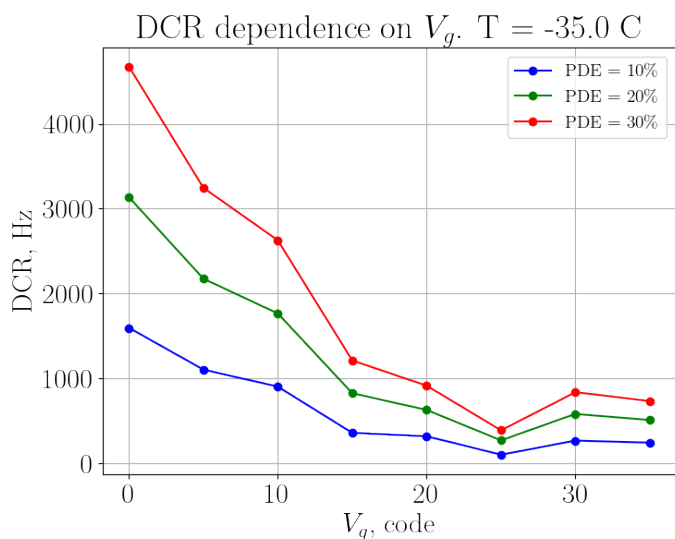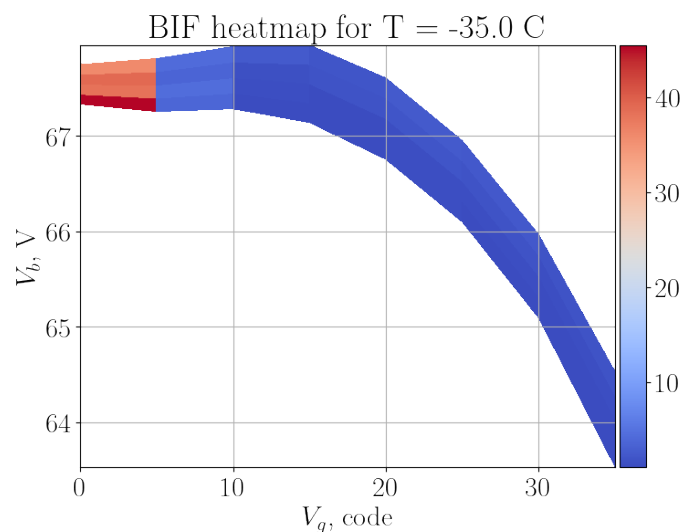
Optimal point   T = -35.0 C

Criterion	PDE, %	DCR, Hz	SNR	AP, %	DT, mus	TR, ps	BIF, %
QE = 10	10	101	0.0986	2.88	2.62	1660	1.3
QE = 20	20	270	0.074	7.47	2.62	1600	2.1
QE = 30	30	389	0.0772	10.97	2.62	1600	2.1

Criterion	Vg, code	Vb, V	T, C
QE = 10	25	66.34	-35.0
QE = 20	25	67.22	-35.0
QE = 30	25	68.31	-35.0

Graphic characteristics representation

SNR heatmap for T = -35.0 C

BIF heatmap for T = -35.0 C

DCR dependence on V_g. T = -35.0 C

AP dependence on V_g. T = -35.0 C

SPD Datasheet

QRATE
QUANTUM SOLUTIONS

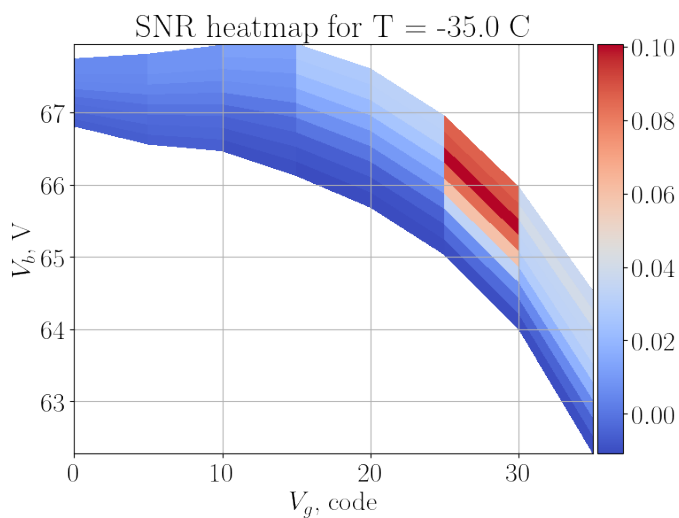SPD type: gated   SPD Name: Alyonushka   Date: 02.12.2021

Optimal point   T = -30.0 C

Criterion	PDE, %	DCR, Hz	SNR	AP, %	DT, mus	TR, ps	BIF, %
QE = 10	10	251	0.0399	1.72	2.51	1750	0.9
QE = 20	20	519	0.0385	4.14	2.51	1630	1.3
QE = 30	30	746	0.0402	6.03	2.51	1630	1.3

Criterion	Vg, code	Vb, V	T, C
QE = 10	35	64.24	-30.0
QE = 20	35	65.22	-30.0
QE = 30	35	66.35	-30.0

Graphic characteristics representation

SNR heatmap for T = -30.0 C

BIF heatmap for T = -30.0 C

DCR dependence on V_g. T = -30.0 C

AP dependence on V_g. T = -30.0 C

SPD Datasheet

QRATE
QUANTUM SOLUTIONS
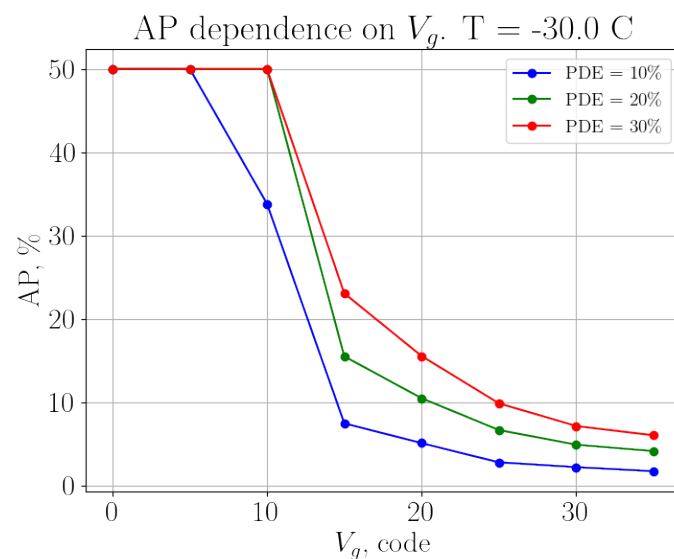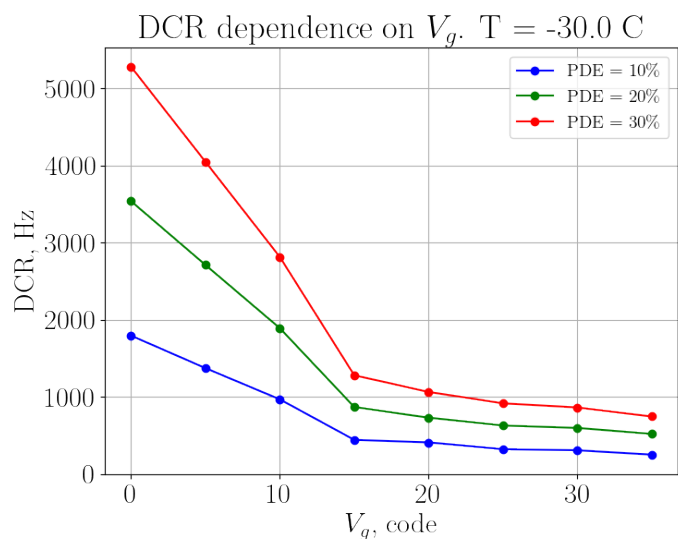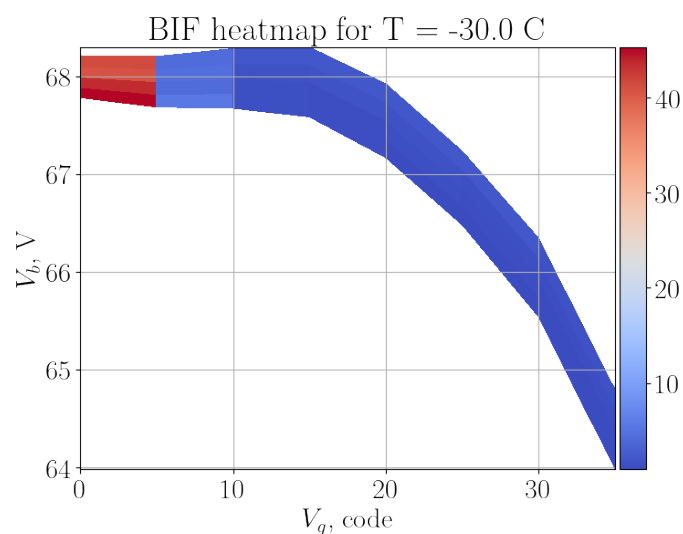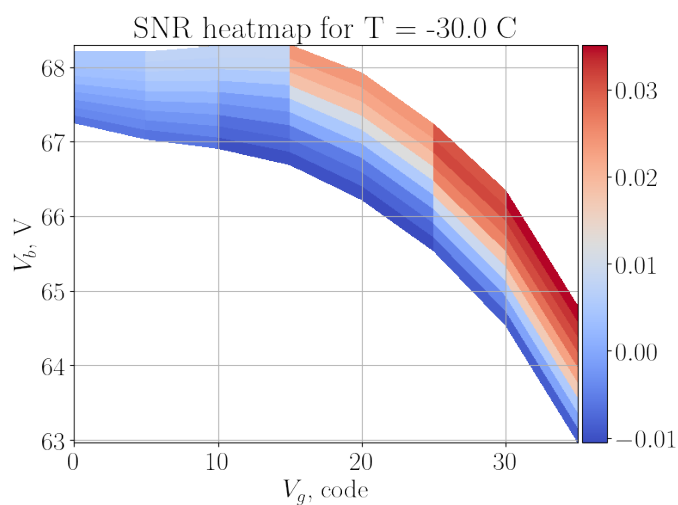
SPD type: gated   SPD Name: Alyonushka   Date: 02.12.2021

Optimal point   T = -25.0 C

Criterion	PDE, %	DCR, Hz	SNR	AP, %	DT, mus	TR, ps	BIF, %
QE = 10	10	14	0.7361	1.37	2.67	1650	0.8
QE = 20	20	49	0.4117	3.17	2.67	1610	1.4
QE = 30	30	72	0.4193	4.65	2.67	1610	1.4

Criterion	Vg, code	Vb, V	T, C
QE = 10	35	64.63	-25.0
QE = 20	35	65.26	-25.0
QE = 30	35	66.16	-25.0

Graphic characteristics representation

SNR heatmap for T = -25.0 C

BIF heatmap for T = -25.0 C

DCR dependence on V_g. T = -25.0 C

AP dependence on V_g. T = -25.0 C