SPD Datasheet

QRATE
QUANTUM SOLUTIONS

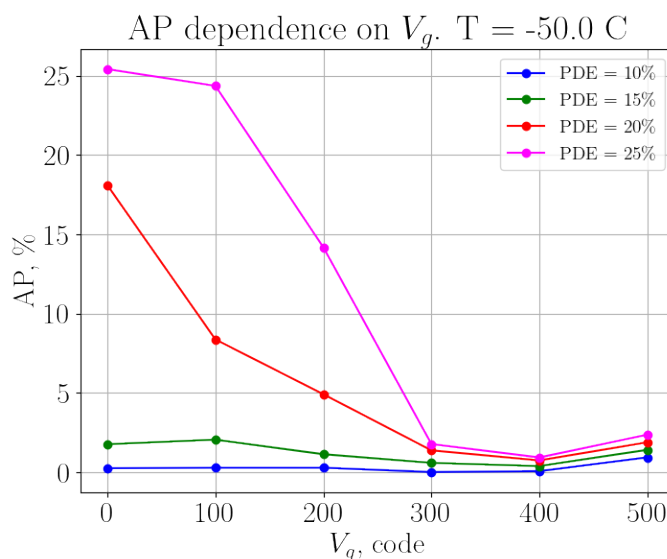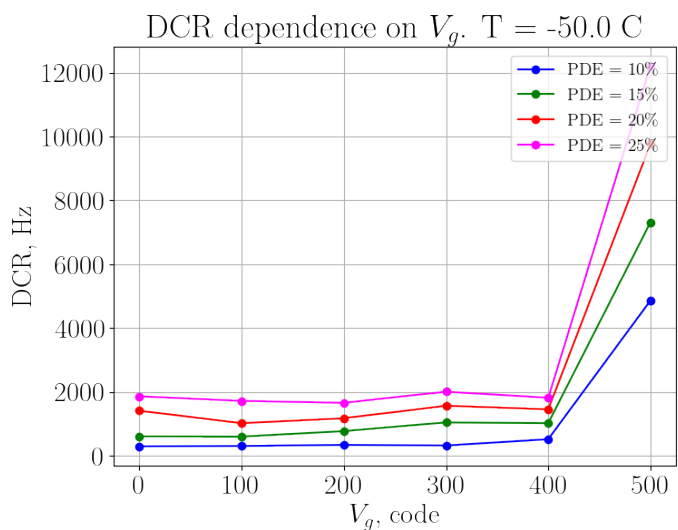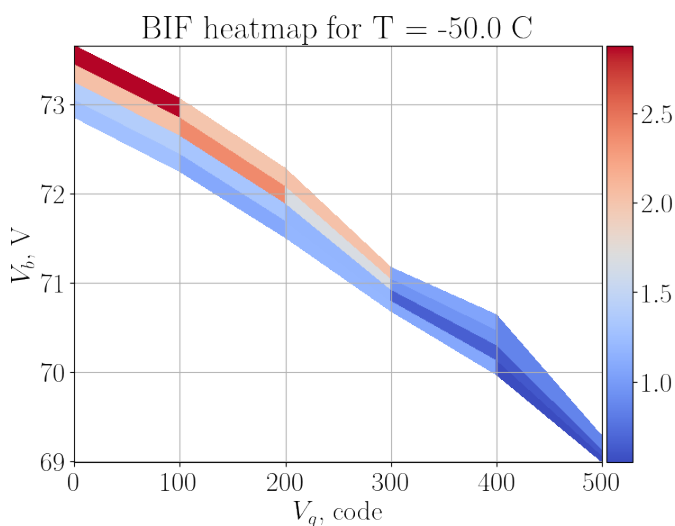SPD type: gated   SPD Name: Moguta   Date: 26.07.2021

Optimal point   T = -50.0 C

Criterion	PDE, %	DCR, Hz	SNR	AP, %	DT, mus	TR, ps	BIF, %
QE = 10	10	299	0.0334	0.26	5.88	790	1.3
QE = 20	20	1027	0.0195	8.38	6.2	700	2.0

Criterion	Vg, code	Vb, V	T, C
QE = 10	0	72.58	-50.0
QE = 20	100	72.83	-50.0

Graphic characteristics representation

SNR heatmap for T = -50.0 C

BIF heatmap for T = -50.0 C

DCR dependence on V_g. T = -50.0 C

AP dependence on V_g. T = -50.0 C
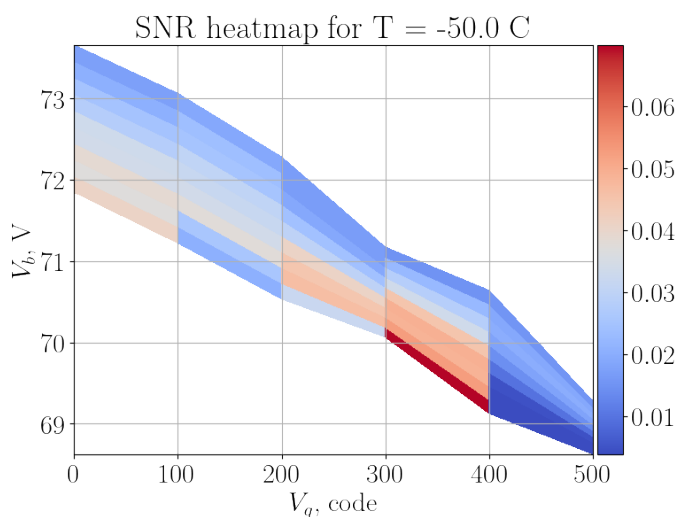
SPD Datasheet

SPD type: gated   SPD Name: Moguta   Date: 26.07.2021

Optimal point   T = -45.0 C

Criterion	PDE, %	DCR, Hz	SNR	AP, %	DT, mus	TR, ps	BIF, %
QE = 10	10	406	0.0246	0.02	6.13	2000	0.9
QE = 20	20	1451	0.0138	8.32	6.58	710	2.7

Criterion	Vg, code	Vb, V	T, C
QE = 10	300	71.23	-45.0
QE = 20	200	72.69	-45.0

Graphic characteristics representation

SNR heatmap for T = -45.0 C

BIF heatmap for T = -45.0 C

DCR dependence on V_g. T = -45.0 C

AP dependence on V_g. T = -45.0 C

SPD Datasheet
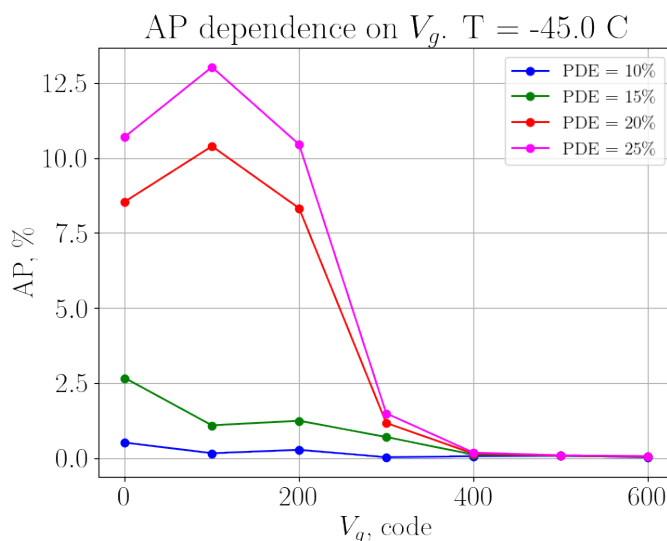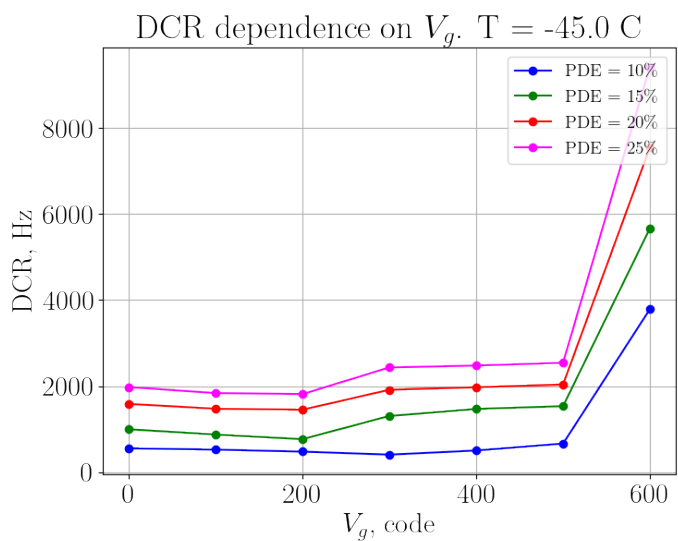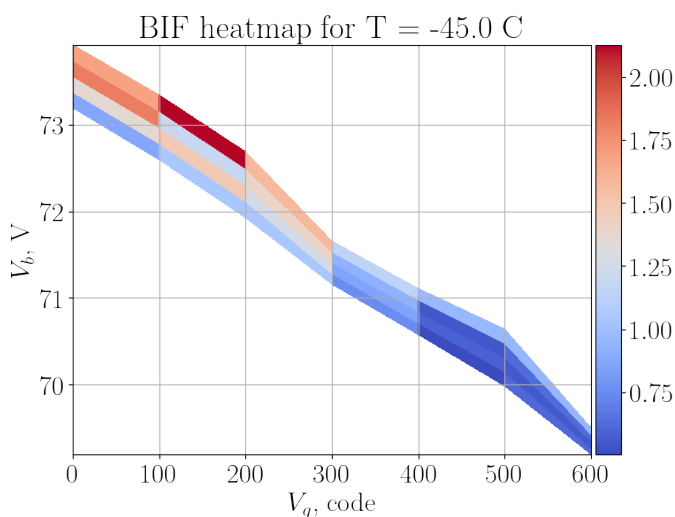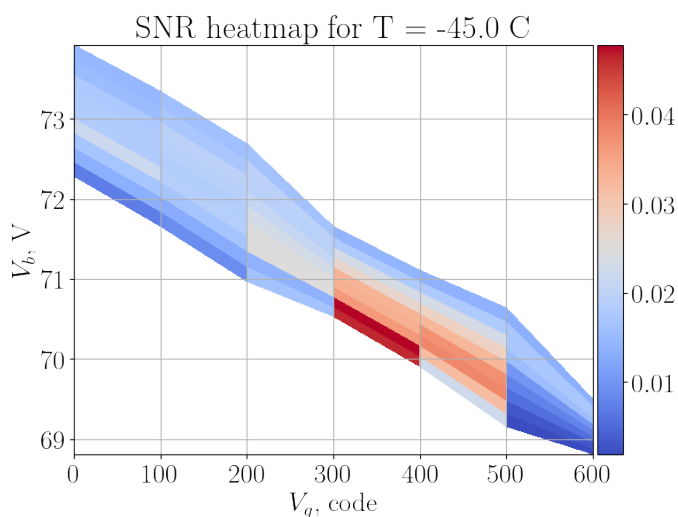
SPD type: gated   SPD Name: Moguta   Date: 26.07.2021

Optimal point   T = -40.0 C

Criterion	PDE, %	DCR, Hz	SNR	AP, %	DT, mus	TR, ps	BIF, %
QE = 10	10	558	0.0179	0.22	6.1	660	0.8
QE = 20	20	1666	0.012	4.34	6.1	710	1.5

Criterion	Vg, code	Vb, V	T, C
QE = 10	200	72.34	-40.0
QE = 20	200	73.18	-40.0

Graphic characteristics representation