



## 7. Frequency Stability

### 7.1. Test Results for Ant4

#### 7.1.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-7.40	-0.001927	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-6.80	-0.001771	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-6.20	-0.001615	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-5.60	-0.001458	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-3.60	-0.000938	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-5.30	-0.001380	Pass

#### 7.1.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-9.80	-0.002552	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-4.50	-0.001172	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-5.50	-0.001432	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-6.60	-0.001719	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-5.20	-0.001354	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-7.00	-0.001823	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-6.30	-0.001641	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-4.90	-0.001276	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-5.30	-0.001380	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-2.50	-0.000651	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-1.80	-0.000469	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-4.60	-0.001198	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-2.60	-0.000677	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-6.90	-0.001797	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-5.50	-0.001432	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-8.30	-0.002161	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-2.20	-0.000573	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-0.80	-0.000208	Pass

### 7.2. Test Results for Ant6

#### 7.2.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-7.20	-0.001875	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-7.40	-0.001927	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-3.90	-0.001016	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-0.80	-0.000208	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-4.70	-0.001224	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-5.10	-0.001328	Pass

#### 7.2.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-6.90	-0.001797	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-5.90	-0.001536	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-4.10	-0.001068	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-7.10	-0.001849	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-8.20	-0.002135	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-7.90	-0.002057	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-5.80	-0.001510	Pass

15KHz	50MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-7.60	-0.001979	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-6.70	-0.001745	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-5.10	-0.001328	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-2.90	-0.000755	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-1.60	-0.000417	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	1.30	0.000339	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-4.20	-0.001094	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-4.70	-0.001224	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-4.20	-0.001094	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-2.70	-0.000703	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-1.60	-0.000417	Pass

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The End