

Frequency Stability

GPRS

GPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
9	-30	-19.58	±2060.5	-32.06	±2091.5	-23.81	±2122	Pass
	-20	-24.11		-28.22		-38.67		
	-10	-20.85		-19.82		-21.87		
	0	-26.79		-34.45		-27.39		
	+10	-17.43		-41.39		-31.64		
	+20	-31.59		-23.59		-16.05		
	+25	19.58		-30.36		-35.23		
	+30	-29.83		-24.45		-28.1		
	+40	-31.48		-17.93		-36.66		
	+50	-29.52		-35.12		-32.23		
10	+25	-32.41		-31.44		-26.32		
3.3	+25	-31.73		17.53		-22.61		

GPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
9	-30	-26.14	±4625.5	-21.74	±4700.0	27.16	±4774.5	Pass
	-20	-36.64		-38.14		27.61		
	-10	-27.34		-32.44		-56.98		
	0	-35.67		-28.73		30.72		
	+10	-30.88		-35.26		-32.27		
	+20	-41.03		24.27		22.46		
	+25	26.37		-53.93		-45.9		
	+30	-39.05		-41.19		-30.06		
	+40	-27.41		29.56		-36.72		
	+50	-39.75		-38.44		-39.4		
10	+25	-32.73		-42.04		-46.23		
3.3	+25	-57.5		33.41		-43.05		

EGPRS

EGPRS 850

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 824.2 MHz		MCH 836.6 MHz		HCH 848.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
9	-30	-13.26	± 2060.5	-19.71	± 2091.5	-21.24	±2122	Pass
	-20	-2060.5		-2091.5		-2122		
	-10	-13.41		14.27		-38.04		
	0	-11.57		-14.42		-23.27		
	+10	-13.64		-19.2		16.53		
	+20	-24.24		-22.87		-19.81		
	+25	-16.53		7.48		-15.54		
	+30	-17.4		-21.73		-10.94		
	+40	-20.42		-25.21		-20.96		
	+50	-24.06		-14.15		-14.86		
10	+25	-23.44		-17.09		-23.85		
3.3	+25	-14.57		12.75		-15.42		

EGPRS 1900

Test Conditions		Frequency Deviation						Verdict
Power (VDC)	Temperature (°C)	LCH 1850.2 MHz		MCH 1880 MHz		HCH 1909.8 MHz		
		Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	Value (Hz)	Limits (Hz)	
9	-30	20.89	±4625.5	-42.98	±4700.0	-29.82	±4774.5	Pass
	-20	-19.25		24.36		-38.55		
	-10	12.97		-46.2		-44.65		
	0	-55.32		-19.61		-45.57		
	+10	-38.01		-56.16		-51.2		
	+20	-36.73		-30.11		20.16		
	+25	-35.36		-34.67		-30.94		
	+30	-42.09		-35.34		-48.13		
	+40	-35.94		-15.43		-30.02		
	+50	-62.24		23.55		-35.59		
10	+25	-18.06		-22.62		-40.33		
3.3	+25	-32.44		-23.37		-21.65		

LTE

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-11.72	±4700	Pass
	-20	-15.3		
	-10	-3.97		
	0	-3.57		
	+10	-15.37		
	+20	1.23		
	+25	-5.72		
	+30	-7.2		
	+40	-7.96		
	+50	-5.8		
10	+25	4.32		
3.3	+25	-13.13		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-2.32	±4700	Pass
	-20	-14.53		
	-10	-17.46		
	0	-9.89		
	+10	-9.03		
	+20	-15.98		
	+25	14.55		
	+30	8.45		
	+40	11.23		
	+50	-6.48		
10	+25	-16.43		
3.3	+25	-3.18		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-3.85	±4331.25	Pass
	-20	-12.39		
	-10	-12.2		
	0	-3.97		
	+10	0.93		
	+20	-5.1		
	+25	7.45		
	+30	0.76		
	+40	-2.96		
	+50	3.64		
10	+25	8.56		
3.3	+25	-3.03		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-12.67	±4331.25	Pass
	-20	4.76		
	-10	1.22		
	0	-4.9		
	+10	-2.65		
	+20	0.58		
	+25	-1.02		
	+30	2.41		
	+40	-1.52		
	+50	-0.08		
10	+25	5.47		
3.3	+25	0.3		

LTE Band 5 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-9.87	±2091.25	Pass
	-20	-10.13		
	-10	4.13		
	0	8.8		
	+10	5.7		
	+20	14.5		
	+25	15.07		
	+30	-0.61		
	+40	-5.68		
	+50	-12.82		
10	+25	12.76		
3.3	+25	13.02		

LTE Band 5 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-11.36	±2091.25	Pass
	-20	-15.84		
	-10	1.67		
	0	-4.56		
	+10	1.67		
	+20	7.65		
	+25	14.59		
	+30	-4.55		
	+40	-12.13		
	+50	4.72		
10	+25	5.5		
3.3	+25	2.29		

LTE Band 7 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	8.59	±6337.5	Pass
	-20	18.37		
	-10	2.34		
	0	2.77		
	+10	-3.21		
	+20	10.78		
	+25	-0.11		
	+30	0.94		
	+40	-3.89		
	+50	8.72		
10	+25	-4.59		
3.3	+25	-2.01		

LTE Band 7 16-QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2535 MHz		
		Value(Hz)	Limits (Hz)	
9	-30	-3.85	±6337.5	Pass
	-20	0.12		
	-10	-4.59		
	0	4.84		
	+10	-5.95		
	+20	1.21		
	+25	-15.13		
	+30	15.73		
	+40	-4.4		
	+50	-9.45		
10	+25	-13.11		
3.3	+25	10.84		

1. GPRS_GSM850

1.1 GPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-19.58	-2060.5	2060.5	Pass
190	5	Static	-32.06	-2091.5	2091.5	Pass
251	5	Static	-23.81	-2122	2122	Pass

1.2 GPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-24.11	-2060.5	2060.5	Pass
190	5	Static	-28.22	-2091.5	2091.5	Pass
251	5	Static	-38.67	-2122	2122	Pass

1.3 GPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-20.85	-2060.5	2060.5	Pass
190	5	Static	-19.82	-2091.5	2091.5	Pass
251	5	Static	-21.87	-2122	2122	Pass

1.4 GPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-26.79	-2060.5	2060.5	Pass
190	5	Static	-34.45	-2091.5	2091.5	Pass
251	5	Static	-27.39	-2122	2122	Pass

1.5 GPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-17.43	-2060.5	2060.5	Pass
190	5	Static	-41.39	-2091.5	2091.5	Pass
251	5	Static	-31.64	-2122	2122	Pass

1.6 GPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-31.59	-2060.5	2060.5	Pass
190	5	Static	-23.59	-2091.5	2091.5	Pass
251	5	Static	-16.05	-2122	2122	Pass

1.7 GPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	19.58	-2060.5	2060.5	Pass
190	5	Static	-30.36	-2091.5	2091.5	Pass
251	5	Static	-35.23	-2122	2122	Pass

1.8 GPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-29.83	-2060.5	2060.5	Pass
190	5	Static	-24.45	-2091.5	2091.5	Pass
251	5	Static	-28.1	-2122	2122	Pass

1.9 GPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-31.48	-2060.5	2060.5	Pass
190	5	Static	-17.93	-2091.5	2091.5	Pass
251	5	Static	-36.66	-2122	2122	Pass

1.10 GPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-29.52	-2060.5	2060.5	Pass
190	5	Static	-35.12	-2091.5	2091.5	Pass
251	5	Static	-32.23	-2122	2122	Pass

1.11 GPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-32.41	-2060.5	2060.5	Pass
190	5	Static	-31.44	-2091.5	2091.5	Pass
251	5	Static	-26.32	-2122	2122	Pass

1.12 GPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	5	Static	-31.73	-2060.5	2060.5	Pass
190	5	Static	17.53	-2091.5	2091.5	Pass
251	5	Static	-22.61	-2122	2122	Pass

2. GPRS_PCS

2.1 GPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-26.14	-4625.5	4625.5	Pass
661	0	Static	-21.74	-4700	4700	Pass
810	0	Static	27.16	-4774.5	4774.5	Pass

2.2 GPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-36.64	-4625.5	4625.5	Pass
661	0	Static	-38.14	-4700	4700	Pass
810	0	Static	27.61	-4774.5	4774.5	Pass

2.3 GPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-27.34	-4625.5	4625.5	Pass
661	0	Static	-32.44	-4700	4700	Pass
810	0	Static	-56.98	-4774.5	4774.5	Pass

2.4 GPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-35.67	-4625.5	4625.5	Pass
661	0	Static	-28.73	-4700	4700	Pass
810	0	Static	30.72	-4774.5	4774.5	Pass

2.5 GPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-30.88	-4625.5	4625.5	Pass
661	0	Static	-35.26	-4700	4700	Pass
810	0	Static	-32.27	-4774.5	4774.5	Pass

2.6 GPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-41.03	-4625.5	4625.5	Pass
661	0	Static	24.27	-4700	4700	Pass
810	0	Static	22.46	-4774.5	4774.5	Pass

2.7 GPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	26.37	-4625.5	4625.5	Pass
661	0	Static	-53.93	-4700	4700	Pass
810	0	Static	-45.9	-4774.5	4774.5	Pass

2.8 GPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-39.05	-4625.5	4625.5	Pass
661	0	Static	-41.19	-4700	4700	Pass
810	0	Static	-30.06	-4774.5	4774.5	Pass

2.9 GPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-27.41	-4625.5	4625.5	Pass
661	0	Static	29.56	-4700	4700	Pass
810	0	Static	-36.72	-4774.5	4774.5	Pass

2.10 GPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-39.75	-4625.5	4625.5	Pass
661	0	Static	-38.44	-4700	4700	Pass
810	0	Static	-39.4	-4774.5	4774.5	Pass

2.11 GPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-32.73	-4625.5	4625.5	Pass
661	0	Static	-42.04	-4700	4700	Pass
810	0	Static	-46.23	-4774.5	4774.5	Pass

2.12 GPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	0	Static	-57.5	-4625.5	4625.5	Pass
661	0	Static	33.41	-4700	4700	Pass
810	0	Static	-43.05	-4774.5	4774.5	Pass

1. EGPRS_GSM850

1.1 EGPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-13.26	-2060.5	2060.5	Pass
190	8	Static	-19.71	-2091.5	2091.5	Pass
251	8	Static	-21.24	-2122	2122	Pass

1.2 EGPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-10.8	-2060.5	2060.5	Pass
190	8	Static	-9.79	-2091.5	2091.5	Pass
251	8	Static	13.1	-2122	2122	Pass

1.3 EGPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-13.41	-2060.5	2060.5	Pass
190	8	Static	14.27	-2091.5	2091.5	Pass
251	8	Static	-38.04	-2122	2122	Pass

1.4 EGPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-11.57	-2060.5	2060.5	Pass
190	8	Static	-14.42	-2091.5	2091.5	Pass
251	8	Static	-23.27	-2122	2122	Pass

1.5 EGPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-13.64	-2060.5	2060.5	Pass
190	8	Static	-19.2	-2091.5	2091.5	Pass
251	8	Static	16.53	-2122	2122	Pass

1.6 EGPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-24.24	-2060.5	2060.5	Pass
190	8	Static	-22.87	-2091.5	2091.5	Pass
251	8	Static	-19.81	-2122	2122	Pass

1.7 EGPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-16.53	-2060.5	2060.5	Pass
190	8	Static	7.48	-2091.5	2091.5	Pass
251	8	Static	-15.54	-2122	2122	Pass

1.8 EGPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-17.4	-2060.5	2060.5	Pass
190	8	Static	-21.73	-2091.5	2091.5	Pass
251	8	Static	-10.94	-2122	2122	Pass

1.9 EGPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-20.42	-2060.5	2060.5	Pass
190	8	Static	-25.21	-2091.5	2091.5	Pass
251	8	Static	-20.96	-2122	2122	Pass

1.10 EGPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-24.06	-2060.5	2060.5	Pass
190	8	Static	-14.15	-2091.5	2091.5	Pass
251	8	Static	-14.86	-2122	2122	Pass

1.11 EGPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-23.44	-2060.5	2060.5	Pass
190	8	Static	-17.09	-2091.5	2091.5	Pass
251	8	Static	-23.85	-2122	2122	Pass

1.12 EGPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
128	8	Static	-14.57	-2060.5	2060.5	Pass
190	8	Static	12.75	-2091.5	2091.5	Pass
251	8	Static	-15.42	-2122	2122	Pass

2. EGPRS_PCS

2.1 EGPRS Frequency Stability_Part22-24(-30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	20.89	-4625.5	4625.5	Pass
661	2	Static	-42.98	-4700	4700	Pass
810	2	Static	-29.82	-4774.5	4774.5	Pass

2.2 EGPRS Frequency Stability_Part22-24(-20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-19.25	-4625.5	4625.5	Pass
661	2	Static	24.36	-4700	4700	Pass
810	2	Static	-38.55	-4774.5	4774.5	Pass

2.3 EGPRS Frequency Stability_Part22-24(-10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	12.97	-4625.5	4625.5	Pass
661	2	Static	-46.2	-4700	4700	Pass
810	2	Static	-44.65	-4774.5	4774.5	Pass

2.4 EGPRS Frequency Stability_Part22-24(0 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-55.32	-4625.5	4625.5	Pass
661	2	Static	-19.61	-4700	4700	Pass
810	2	Static	-45.57	-4774.5	4774.5	Pass

2.5 EGPRS Frequency Stability_Part22-24(10 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-38.01	-4625.5	4625.5	Pass
661	2	Static	-56.16	-4700	4700	Pass
810	2	Static	-51.2	-4774.5	4774.5	Pass

2.6 EGPRS Frequency Stability_Part22-24(20 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-36.73	-4625.5	4625.5	Pass
661	2	Static	-30.11	-4700	4700	Pass
810	2	Static	20.16	-4774.5	4774.5	Pass

2.7 EGPRS Frequency Stability_Part22-24(25 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-35.36	-4625.5	4625.5	Pass
661	2	Static	-34.67	-4700	4700	Pass
810	2	Static	-30.94	-4774.5	4774.5	Pass

2.8 EGPRS Frequency Stability_Part22-24(30 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-42.09	-4625.5	4625.5	Pass
661	2	Static	-35.34	-4700	4700	Pass
810	2	Static	-48.13	-4774.5	4774.5	Pass

2.9 EGPRS Frequency Stability_Part22-24(40 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-35.94	-4625.5	4625.5	Pass
661	2	Static	-15.43	-4700	4700	Pass
810	2	Static	-30.02	-4774.5	4774.5	Pass

2.10 EGPRS Frequency Stability_Part22-24(50 Degree)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-62.24	-4625.5	4625.5	Pass
661	2	Static	23.55	-4700	4700	Pass
810	2	Static	-35.59	-4774.5	4774.5	Pass

2.11 EGPRS Frequency Stability_Part22-24(NTHV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-18.06	-4625.5	4625.5	Pass
661	2	Static	-22.62	-4700	4700	Pass
810	2	Static	-40.33	-4774.5	4774.5	Pass

2.12 EGPRS Frequency Stability_Part22-24(NTLV)

UL Channel	PCL	Propagation Condition	Freq Error (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
512	2	Static	-32.44	-4625.5	4625.5	Pass
661	2	Static	-23.37	-4700	4700	Pass
810	2	Static	-21.65	-4774.5	4774.5	Pass

1. LTE_Band2

1.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-11.72	Pass
18900	10	Q16	27	LOW	-4700	4700	-2.32	Pass

1.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-15.3	Pass
18900	10	Q16	27	LOW	-4700	4700	-14.53	Pass

1.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-3.97	Pass
18900	10	Q16	27	LOW	-4700	4700	-17.46	Pass

1.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-3.57	Pass
18900	10	Q16	27	LOW	-4700	4700	-9.89	Pass

1.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-15.37	Pass
18900	10	Q16	27	LOW	-4700	4700	-9.03	Pass

1.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	1.23	Pass
18900	10	Q16	27	LOW	-4700	4700	-15.98	Pass

1.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-5.72	Pass
18900	10	Q16	27	LOW	-4700	4700	14.55	Pass

1.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-7.2	Pass
18900	10	Q16	27	LOW	-4700	4700	8.45	Pass

1.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-7.96	Pass
18900	10	Q16	27	LOW	-4700	4700	11.23	Pass

1.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-5.8	Pass
18900	10	Q16	27	LOW	-4700	4700	-6.48	Pass

1.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	4.32	Pass
18900	10	Q16	27	LOW	-4700	4700	-16.43	Pass

1.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
18900	10	QPSK	50	LOW	-4700	4700	-13.13	Pass
18900	10	Q16	27	LOW	-4700	4700	-3.18	Pass

2. LTE_Band4

2.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-3.85	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-12.67	Pass

2.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-12.39	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	4.76	Pass

2.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-12.2	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	1.22	Pass

2.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-3.97	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-4.9	Pass

2.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	0.93	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-2.65	Pass

2.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-5.1	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	0.58	Pass

2.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	7.45	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-1.02	Pass

2.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	0.76	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	2.41	Pass

2.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-2.96	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-1.52	Pass

2.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	3.64	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-0.08	Pass

2.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	8.56	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	5.47	Pass

2.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20175	10	QPSK	50	LOW	-4331.25	4331.25	-3.03	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	0.3	Pass

3. LTE_Band5

3.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	-9.87	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	-11.36	Pass

3.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	-10.13	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	-15.84	Pass

3.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	4.13	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	1.67	Pass

3.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	8.8	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	-4.56	Pass

3.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	5.7	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	1.67	Pass

3.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	14.5	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	7.65	Pass

3.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	15.07	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	14.59	Pass

3.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	-0.61	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	-4.55	Pass

3.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	-5.68	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	-12.13	Pass

3.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	-12.82	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	4.72	Pass

3.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	12.76	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	5.5	Pass

3.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
20525	10	QPSK	50	LOW	-2091.25	2091.25	13.02	Pass
20525	10	Q16	27	LOW	-2091.25	2091.25	2.29	Pass

4. LTE_Band7

4.1 LTE Frequency Stability_Part22-24-27(-30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	8.59	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-3.85	Pass

4.2 LTE Frequency Stability_Part22-24-27(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	2.34	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	0.12	Pass

4.3 LTE Frequency Stability_Part22-24-27(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	18.37	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-4.59	Pass

4.4 LTE Frequency Stability_Part22-24-27(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	2.77	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	4.84	Pass

4.5 LTE Frequency Stability_Part22-24-27(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	-3.21	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-5.95	Pass

4.6 LTE Frequency Stability_Part22-24-27(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	10.78	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	1.21	Pass

4.7 LTE Frequency Stability_Part22-24-27(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	-0.11	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-15.13	Pass

4.8 LTE Frequency Stability_Part22-24-27(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	0.94	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	15.73	Pass

4.9 LTE Frequency Stability_Part22-24-27(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	-3.89	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-4.4	Pass

4.10 LTE Frequency Stability_Part22-24-27(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	8.72	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-9.45	Pass

4.11 LTE Frequency Stability_Part22-24-27(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	-4.59	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	-13.11	Pass

4.12 LTE Frequency Stability_Part22-24-27(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
21100	10	QPSK	50	LOW	-6337.5	6337.5	-2.01	Pass
21100	10	Q16	27	LOW	-6337.5	6337.5	10.84	Pass