

Frequency Stability

LTE

LTE Band 2 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-29.41	±4700	Pass
	-20	-22.42		
	-10	-25.13		
	0	-25.22		
	+10	-22.43		
	+20	-20.94		
	+25	-21.9		
	+30	-21.79		
	+40	-23.76		
	+50	-19.24		
4.2	+25	-22.46		
3.4	+25	-21.29		

LTE Band 2 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1880 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-28.1	±4700	Pass
	-20	-25.98		
	-10	-23.23		
	0	-23.07		
	+10	-21.99		
	+20	-19.14		
	+25	-21.31		
	+30	-22.59		
	+40	-20.99		
	+50	-21.34		
4.2	+25	-21.79		
3.4	+25	-22.66		

LTE Band 4 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-2.39	±4331.25	Pass
	-20	-19.2		
	-10	-20.28		
	0	-19.34		
	+10	-15.85		
	+20	-16.55		
	+25	-15.03		
	+30	-15.99		
	+40	-14.68		
	+50	-16.01		
4.2	+25	-18.48		
3.4	+25	-17.75		

LTE Band 4 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1732.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-21.2	±4331.25	Pass
	-20	-19.64		
	-10	-17.67		
	0	-16.11		
	+10	-16.47		
	+20	-17.94		
	+25	-17.19		
	+30	-16.92		
	+40	-16.75		
	+50	-17.12		
4.2	+25	-17.25		
3.4	+25	-15.98		

LTE Band 12 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	10.96	±1768.75	Pass
	-20	23.23		
	-10	0.31		
	0	-2.07		
	+10	17.92		
	+20	4.09		
	+25	14.16		
	+30	-8.85		
	+40	-5.94		
	+50	-7.58		
4.2	+25	-7.52	±1768.75	Pass
3.4	+25	18.31		

LTE Band 12 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 707.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-12.89	±1768.75	Pass
	-20	2.5		
	-10	-22.19		
	0	-17.74		
	+10	-9.77		
	+20	-18.94		
	+25	-17.04		
	+30	-11.5		
	+40	-10.76		
	+50	-12.04		
4.2	+25	-11.24	±1768.75	Pass
3.4	+25	-14.43		

LTE Band 13 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-2.35	±1768.75	Pass
	-20	7.57		
	-10	15.68		
	0	0.89		
	+10	11.56		
	+20	16.26		
	+25	-3.09		
	+30	-3.02		
	+40	-4.55		
	+50	17.19		
4.2	+25	15.72	±1768.75	Pass
3.4	+25	12.36		

LTE Band 13 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-6.25	±1768.75	Pass
	-20	-15.45		
	-10	-22.93		
	0	-26.66		
	+10	-18		
	+20	-13.28		
	+25	-19.28		
	+30	-17.88		
	+40	-15.71		
	+50	-14.06		
4.2	+25	-15.42	±1768.75	Pass
3.4	+25	-19.44		

LTE Band 14 QPSK 5 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 795.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	5.36	±1988.75	Pass
	-20	16.99		
	-10	2.75		
	0	8.28		
	+10	12.77		
	+20	16.06		
	+25	19.8		
	+30	-0.56		
	+40	0.77		
	+50	1.4		
4.2	+25	0.54	±1988.75	Pass
3.4	+25	0.74		

LTE Band 14 16QAM 5 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 795.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-16.85	±1988.75	Pass
	-20	-1.4		
	-10	-15.96		
	0	-10.59		
	+10	-6.41		
	+20	-2.68		
	+25	0.56		
	+30	-19.96		
	+40	-19.31		
	+50	-18.64		
4.2	+25	-19.4	±1988.75	Pass
3.4	+25	-19.86		

LTE Band 17 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	8.51	±1775	Pass
	-20	13.76		
	-10	5.16		
	0	9.21		
	+10	-7.75		
	+20	8.96		
	+25	-2.15		
	+30	-10.61		
	+40	9.81		
	+50	3.5		
4.2	+25	-3.38		
3.4	+25	-8.9		

LTE Band 17 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 710 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-17.7	±1775	Pass
	-20	-20.79		
	-10	-17.19		
	0	-21.66		
	+10	-7.34		
	+20	-20		
	+25	-14.13		
	+30	-10.26		
	+40	-17.15		
	+50	-23.49		
4.2	+25	-15.44		
3.4	+25	-6.64		

LTE Band 25 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1882.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	2.53	±1775	Pass
	-20	-15.39		
	-10	-17.65		
	0	-17.94		
	+10	-12.69		
	+20	-16.79		
	+25	-13.53		
	+30	-18.05		
	+40	-20.44		
	+50	-15.86		
4.2	+25	-18.93		
3.4	+25	-16.91		

LTE Band 25 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1882.5 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-24.59	±1775	Pass
	-20	-20.89		
	-10	-20.83		
	0	-22.44		
	+10	-20.96		
	+20	-19.25		
	+25	-22.3		
	+30	-20.21		
	+40	-21.03		
	+50	-20.76		
4.2	+25	-19.83		
3.4	+25	-20.63		

LTE Band 66 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1745 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-16.97	±4362.5	Pass
	-20	-18.31		
	-10	-1.62		
	0	-18.24		
	+10	-15.88		
	+20	-17.71		
	+25	-16.19		
	+30	-16.58		
	+40	-15.82		
	+50	-14.19		
4.2	+25	-18.32		
3.4	+25	-16.85		

LTE Band 66 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 1745 MHz		
		Value(Hz)	Limits (Hz)	
3.8	-25	-16.25	±4362.5	Pass
	-20	-18.21		
	-10	-17.85		
	0	-16.87		
	+10	-14.96		
	+20	-17.77		
	+25	-17.62		
	+30	-17.94		
	+40	-16.22		
	+50	-15.48		
4.2	+25	-16.94		
3.4	+25	-15.44		

1. LTE_Band2

1.1 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	-29.41	Pass
18900	10	Q16	27	LOW	-4700	4700	-28.1	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	-22.42	Pass
18900	10	Q16	27	LOW	-4700	4700	-25.98	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	-25.13	Pass
18900	10	Q16	27	LOW	-4700	4700	-23.23	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	-25.22	Pass
18900	10	Q16	27	LOW	-4700	4700	-23.07	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	-22.43	Pass
18900	10	Q16	27	LOW	-4700	4700	-21.99	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	-20.94	Pass
18900	10	Q16	27	LOW	-4700	4700	-19.14	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	-21.9	Pass
18900	10	Q16	27	LOW	-4700	4700	-21.31	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	-21.79	Pass
18900	10	Q16	27	LOW	-4700	4700	-22.59	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	-23.76	Pass
18900	10	Q16	27	LOW	-4700	4700	-20.99	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	-19.24	Pass
18900	10	Q16	27	LOW	-4700	4700	-21.34	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	-22.46	Pass
18900	10	Q16	27	LOW	-4700	4700	-21.79	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	-21.29	Pass
18900	10	Q16	27	LOW	-4700	4700	-22.66	Pass

2. LTE_Band4

2.1 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	-2.39	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-21.2	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	-19.2	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-19.64	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	-20.28	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-17.67	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	-19.34	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-16.11	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	-15.85	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-16.47	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	-16.55	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-17.94	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	-15.03	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-17.19	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	-15.99	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-16.92	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	-14.68	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-16.75	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	-16.01	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-17.12	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	-18.48	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-17.25	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	-17.75	Pass
20175	10	Q16	27	LOW	-4331.25	4331.25	-15.98	Pass

3. LTE_Band12

3.1 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
23095	10	QPSK	50	LOW	-1768.75	1768.75	10.96	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-12.89	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	23.23	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	2.5	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	0.31	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-22.19	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	-2.07	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-17.74	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	17.92	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-9.77	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	4.09	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-18.94	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	14.16	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-17.04	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	-8.85	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-11.5	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	-5.94	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-10.76	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	-7.58	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-12.04	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	-7.52	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-11.24	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
23095	10	QPSK	50	LOW	-1768.75	1768.75	18.31	Pass
23095	10	Q16	27	LOW	-1768.75	1768.75	-14.43	Pass

4. LTE_Band13

4.1 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
23230	10	QPSK	50	LOW	-1955	1955	15.68	Pass
23230	10	Q16	27	LOW	-1955	1955	-6.25	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
23230	10	QPSK	50	LOW	-1955	1955	7.57	Pass
23230	10	Q16	27	LOW	-1955	1955	-15.45	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
23230	10	QPSK	50	LOW	-1955	1955	-2.35	Pass
23230	10	Q16	27	LOW	-1955	1955	-22.93	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
23230	10	QPSK	50	LOW	-1955	1955	0.89	Pass
23230	10	Q16	27	LOW	-1955	1955	-26.66	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
23230	10	QPSK	50	LOW	-1955	1955	11.56	Pass
23230	10	Q16	27	LOW	-1955	1955	-18	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
23230	10	QPSK	50	LOW	-1955	1955	16.26	Pass
23230	10	Q16	27	LOW	-1955	1955	-13.28	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
23230	10	QPSK	50	LOW	-1955	1955	-3.09	Pass
23230	10	Q16	27	LOW	-1955	1955	-19.28	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
23230	10	QPSK	50	LOW	-1955	1955	-3.02	Pass
23230	10	Q16	27	LOW	-1955	1955	-17.88	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
23230	10	QPSK	50	LOW	-1955	1955	-4.55	Pass
23230	10	Q16	27	LOW	-1955	1955	-15.71	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
23230	10	QPSK	50	LOW	-1955	1955	17.19	Pass
23230	10	Q16	27	LOW	-1955	1955	-14.06	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
23230	10	QPSK	50	LOW	-1955	1955	15.72	Pass
23230	10	Q16	27	LOW	-1955	1955	-15.42	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
23230	10	QPSK	50	LOW	-1955	1955	12.36	Pass
23230	10	Q16	27	LOW	-1955	1955	-19.44	Pass

5. LTE_Band17

5.1 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
23790	10	QPSK	50	LOW	-1775	1775	8.51	Pass
23790	10	Q16	27	LOW	-1775	1775	-17.7	Pass

5.2 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
23790	10	QPSK	50	LOW	-1775	1775	13.76	Pass
23790	10	Q16	27	LOW	-1775	1775	-20.79	Pass

5.3 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
23790	10	QPSK	50	LOW	-1775	1775	5.16	Pass
23790	10	Q16	27	LOW	-1775	1775	-17.19	Pass

5.4 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
23790	10	QPSK	50	LOW	-1775	1775	9.21	Pass
23790	10	Q16	27	LOW	-1775	1775	-21.66	Pass

5.5 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
23790	10	QPSK	50	LOW	-1775	1775	-7.75	Pass
23790	10	Q16	27	LOW	-1775	1775	-7.34	Pass

5.6 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
23790	10	QPSK	50	LOW	-1775	1775	8.96	Pass
23790	10	Q16	27	LOW	-1775	1775	-20	Pass

5.7 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
23790	10	QPSK	50	LOW	-1775	1775	-2.15	Pass
23790	10	Q16	27	LOW	-1775	1775	-14.13	Pass

5.8 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
23790	10	QPSK	50	LOW	-1775	1775	-10.61	Pass
23790	10	Q16	27	LOW	-1775	1775	-10.26	Pass

5.9 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
23790	10	QPSK	50	LOW	-1775	1775	9.81	Pass
23790	10	Q16	27	LOW	-1775	1775	-17.15	Pass

5.10 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
23790	10	QPSK	50	LOW	-1775	1775	3.5	Pass
23790	10	Q16	27	LOW	-1775	1775	-23.49	Pass

5.11 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
23790	10	QPSK	50	LOW	-1775	1775	-3.38	Pass
23790	10	Q16	27	LOW	-1775	1775	-15.44	Pass

5.12 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
23790	10	QPSK	50	LOW	-1775	1775	-8.9	Pass
23790	10	Q16	27	LOW	-1775	1775	-6.64	Pass

6. LTE_Band25

6.1 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	2.53	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-24.59	Pass

6.2 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-15.39	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-20.89	Pass

6.3 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-17.65	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-20.83	Pass

6.4 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-17.94	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-22.44	Pass

6.5 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-12.69	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-20.96	Pass

6.6 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-16.79	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-19.25	Pass

6.7 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-13.53	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-22.3	Pass

6.8 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-18.05	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-20.21	Pass

6.9 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-20.44	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-21.03	Pass

6.10 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-15.86	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-20.76	Pass

6.11 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-18.93	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-19.83	Pass

6.12 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
26365	10	QPSK	50	LOW	-4706.25	4706.25	-16.91	Pass
26365	10	Q16	27	LOW	-4706.25	4706.25	-20.63	Pass

7. LTE_Band66

7.1 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-1.62	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-16.25	Pass

7.2 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-18.31	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-18.21	Pass

7.3 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-16.97	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-17.85	Pass

7.4 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-18.24	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-16.87	Pass

7.5 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-15.88	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-14.96	Pass

7.6 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-17.71	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-17.77	Pass

7.7 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-16.19	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-17.62	Pass

7.8 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-16.58	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-17.94	Pass

7.9 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-15.82	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-16.22	Pass

7.10 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-14.19	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-15.48	Pass

7.11 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-18.32	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-16.94	Pass

7.12 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
132322	10	QPSK	50	LOW	-4362.5	4362.5	-16.85	Pass
132322	10	Q16	27	LOW	-4362.5	4362.5	-15.44	Pass

1. LTE_Band14(part90R)

1.1 LTE Frequency Stability_Part90(-25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	5.36	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-16.85	Pass

1.2 LTE Frequency Stability_Part90(-20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	16.99	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-1.4	Pass

1.3 LTE Frequency Stability_Part90(-10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	2.75	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-15.96	Pass

1.4 LTE Frequency Stability_Part90(0 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	8.28	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-10.59	Pass

1.5 LTE Frequency Stability_Part90(10 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	12.77	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-6.41	Pass

1.6 LTE Frequency Stability_Part90(20 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	16.06	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-2.68	Pass

1.7 LTE Frequency Stability_Part90(25 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	19.8	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	0.56	Pass

1.8 LTE Frequency Stability_Part90(30 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	-0.56	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-19.96	Pass

1.9 LTE Frequency Stability_Part90(40 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	0.77	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-19.31	Pass

1.10 LTE Frequency Stability_Part90(50 Degree)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	1.4	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-18.64	Pass

1.11 LTE Frequency Stability_Part90(NTHV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	0.54	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-19.4	Pass

1.12 LTE Frequency Stability_Part90(NTLV)

UL Channel	Bandwidth (MHz)	UL Modulation	UL RB Number	UL RB Position	Lower Limit (Hz)	Upper Limit (Hz)	Measured (Hz)	Verdict
23355	5	QPSK	25	LOW	-1988.75	1988.75	0.74	Pass
23355	5	Q16	25	LOW	-1988.75	1988.75	-19.86	Pass

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