

Frequency Stability

NR

NR Band n26(PART22) QPSK 20 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 836.5 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	-0.94	±2091.25	Pass
	0	-0.95		
	+10	-0.87		
	+20	-1.1		
	+25	-0.3		
	+30	-0.82		
	+40	-0.95		
	+50	-1.57		
5.25	+25	-1.04	±2091.25	Pass
4.75	+25	0.33		

NR Band n26(PART90) QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 819 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	-0.7	±2047.5	Pass
	0	0.46		
	+10	0.35		
	+20	-1.27		
	+25	-1.33		
	+30	0.4		
	+40	-0.41		
	+50	-1.24		
5.25	+25	-0.66	±2047.5	Pass
4.75	+25	-0.92		

NR Band n41 QPSK 20 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 2592.99 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	-4.12	±6482.47	Pass
	0	0.94		
	+10	-1.01		
	+20	0.11		
	+25	0.57		
	+30	-0.4		
	+40	-0.92		
	+50	-7.17		
5.25	+25	-3.92	±6482.47	Pass
4.75	+25	-5.41		

NR Band n77 (3450-3500) QPSK 20 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3499.98 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	-5.71	±8749.95	Pass
	0	-5.78		
	+10	1.71		
	+20	2.81		
	+25	-2.02		
	+30	-2.98		
	+40	-1.16		
	+50	-3.44		
5.25	+25	-1.34	±8749.95	Pass
4.75	+25	-3.63		

NR Band n77 (3700-3980 MHz) QPSK 20 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3840 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	-1.71	±9600	Pass
	0	2.6		
	+10	4.95		
	+20	1.15		
	+25	1.1		
	+30	-3.46		
	+40	0.55		
	+50	3.82		
5.25	+25	-0.12	±9600	Pass
4.75	+25	1.66		

NR Band n78 (3450-3550 MHz) QPSK 20 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3499.98 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	0.5	±8749.95	Pass
	0	-3.19		
	+10	-2.68		
	+20	1.44		
	+25	-3.83		
	+30	-0.37		
	+40	2.01		
	+50	-5.48		
5.25	+25	-0.67	±8749.95	Pass
4.75	+25	-0.07		

NR Band n78 (3700-3800 MHz) QPSK 20 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 3750 MHz		
		Value(Hz)	Limits (Hz)	
5	-10	-2.05	±9375	Pass
	0	-1.81		
	+10	-6.66		
	+20	-2.11		
	+25	-2.4		
	+30	-1.86		
	+40	2.68		
	+50	0.12		
5.25	+25	-0.31	±9375	Pass
4.75	+25	-1.91		

1. n41

1.2 Frequency Error for SA_Part22-24-27(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SC S (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	-4.12	-6482.47	6482.47	Pass

1.3 Frequency Error for SA_Part22-24-27(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	0.94	-6482.47	6482.47	Pass

1.4 Frequency Error for SA_Part22-24-27(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	-1.01	-6482.47	6482.47	Pass

1.5 Frequency Error for SA_Part22-24-27(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	0.11	-6482.47	6482.47	Pass

1.6 Frequency Error for SA_Part22-24-27(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	0.57	-6482.47	6482.47	Pass

1.7 Frequency Error for SA_Part22-24-27(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	-0.4	-6482.47	6482.47	Pass

1.8 Frequency Error for SA_Part22-24-27(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	-0.92	-6482.47	6482.47	Pass

1.9 Frequency Error for SA_Part22-24-27(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	518598	20	30	DFT-s-OFDM	50	0	QPSK	-7.17	-6482.47	6482.47	Pass

1.10 Frequency Error for SA_Part22-24-27(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	518598	20	30	DFT-s-OFDM	50	0	QPSK	-3.92	-6482.47	6482.47	Pass

1.11 Frequency Error for SA_Part22-24-27(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	518598	20	30	DFT-s-OFDM	50	0	QPSK	-5.41	-6482.47	6482.47	Pass

2. n77 30kHz(3450-3550)

2.1 Frequency Error for SA_Part22-24-27(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-5.71	-8749.95	8749.95	Pass

2.2 Frequency Error for SA_Part22-24-27(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-5.78	-8749.95	8749.95	Pass

2.3 Frequency Error for SA_Part22-24-27(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	1.71	-8749.95	8749.95	Pass

2.4 Frequency Error for SA_Part22-24-27(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	2.81	-8749.95	8749.95	Pass

2.5 Frequency Error for SA_Part22-24-27(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-2.02	-8749.95	8749.95	Pass

2.6 Frequency Error for SA_Part22-24-27(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-2.98	-8749.95	8749.95	Pass

2.7 Frequency Error for SA_Part22-24-27(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-1.16	-8749.95	8749.95	Pass

2.8 Frequency Error for SA_Part22-24-27(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-3.44	-8749.95	8749.95	Pass

2.9 Frequency Error for SA_Part22-24-27(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	633332	20	30	DFT-s-OFDM	50	0	QPSK	-1.34	-8749.95	8749.95	Pass

2.10 Frequency Error for SA_Part22-24-27(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	633332	20	30	DFT-s-OFDM	50	0	QPSK	-3.63	-8749.95	8749.95	Pass

3. n77 30kHz(3700-3980)

3.1 Frequency Error for SA_Part22-24-27(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SC S (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	-1.71	-9600	9600	Pass

3.2 Frequency Error for SA_Part22-24-27(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	2.6	-9600	9600	Pass

3.3 Frequency Error for SA_Part22-24-27(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	4.95	-9600	9600	Pass

3.4 Frequency Error for SA_Part22-24-27(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	1.15	-9600	9600	Pass

3.5 Frequency Error for SA_Part22-24-27(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	1.1	-9600	9600	Pass

3.6 Frequency Error for SA_Part22-24-27(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SC S (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	-3.46	-9600	9600	Pass

3.7 Frequency Error for SA_Part22-24-27(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SC S (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	0.55	-9600	9600	Pass

3.8 Frequency Error for SA_Part22-24-27(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	656000	20	30	DFT-s-OFDM	50	0	QPSK	3.82	-9600	9600	Pass

3.9 Frequency Error for SA_Part22-24-27(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SC S (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	656000	20	30	DFT-s-OFDM	50	0	QPSK	-0.12	-9600	9600	Pass

3.10 Frequency Error for SA_Part22-24-27(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	656000	20	30	DFT-s-OFDM	50	0	QPSK	1.66	-9600	9600	Pass

4. n78 30kHz(3450-3550)

4.1 Frequency Error for SA_Part22-24-27(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	0.5	-8749.95	8749.95	Pass

4.2 Frequency Error for SA_Part22-24-27(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-3.19	-8749.95	8749.95	Pass

4.3 Frequency Error for SA_Part22-24-27(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-2.68	-8749.95	8749.95	Pass

4.4 Frequency Error for SA_Part22-24-27(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	1.44	-8749.95	8749.95	Pass

4.5 Frequency Error for SA_Part22-24-27(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-3.83	-8749.95	8749.95	Pass

4.6 Frequency Error for SA_Part22-24-27(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-0.37	-8749.95	8749.95	Pass

4.7 Frequency Error for SA_Part22-24-27(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	2.01	-8749.95	8749.95	Pass

4.8 Frequency Error for SA_Part22-24-27(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	633332	20	30	DFT-s-OFDM	50	0	QPSK	-5.48	-8749.95	8749.95	Pass

4.9 Frequency Error for SA_Part22-24-27(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	633332	20	30	DFT-s-OFDM	50	0	QPSK	-0.67	-8749.95	8749.95	Pass

4.10 Frequency Error for SA_Part22-24-27(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	633332	20	30	DFT-s-OFDM	50	0	QPSK	-0.07	-8749.95	8749.95	Pass

5. n78 30kHz(3700-3800)

5.1 Frequency Error for SA_Part22-24-27(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	-2.05	-9375	9375	Pass

5.2 Frequency Error for SA_Part22-24-27(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	-1.81	-9375	9375	Pass

5.3 Frequency Error for SA_Part22-24-27(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	-6.66	-9375	9375	Pass

5.4 Frequency Error for SA_Part22-24-27(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	-2.11	-9375	9375	Pass

5.5 Frequency Error for SA_Part22-24-27(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	-2.4	-9375	9375	Pass

5.6 Frequency Error for SA_Part22-24-27(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SC S (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	-1.86	-9375	9375	Pass

5.7 Frequency Error for SA_Part22-24-27(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	2.68	-9375	9375	Pass

5.8 Frequency Error for SA_Part22-24-27(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	650000	20	30	DFT-s-OFDM	50	0	QPSK	0.12	-9375	9375	Pass

5.9 Frequency Error for SA_Part22-24-27(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	650000	20	30	DFT-s-OFDM	50	0	QPSK	-0.31	-9375	9375	Pass

5.10 Frequency Error for SA_Part22-24-27(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	650000	20	30	DFT-s-OFDM	50	0	QPSK	-1.91	-9375	9375	Pass

6. n26 15kHz_Part22

6.1 Frequency Error for SA_Part22-24-27(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-0.94	-2091.25	2091.25	Pass

6.2 Frequency Error for SA_Part22-24-27(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-0.95	-2091.25	2091.25	Pass

6.3 Frequency Error for SA_Part22-24-27(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-0.87	-2091.25	2091.25	Pass

6.4 Frequency Error for SA_Part22-24-27(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-1.1	-2091.25	2091.25	Pass

6.5 Frequency Error for SA_Part22-24-27(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-0.3	-2091.25	2091.25	Pass

6.6 Frequency Error for SA_Part22-24-27(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-0.82	-2091.25	2091.25	Pass

6.7 Frequency Error for SA_Part22-24-27(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-0.95	-2091.25	2091.25	Pass

6.8 Frequency Error for SA_Part22-24-27(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	167300	20	15	DFT-s-OFDM	100	0	QPSK	-1.57	-2091.25	2091.25	Pass

6.9 Frequency Error for SA_Part22-24-27(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	167300	20	15	DFT-s-OFDM	100	0	QPSK	-1.04	-2091.25	2091.25	Pass

6.10 Frequency Error for SA_Part22-24-27(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	167300	20	15	DFT-s-OFDM	100	0	QPSK	0.33	-2091.25	2091.25	Pass

1. n26 15kHz_Part90

1.1 Frequency Error for SA_Part90(-10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
-10 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	-0.7	-2047.5	2047.5	Pass

1.2 Frequency Error for SA_Part90(0 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
0 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	0.46	-2047.5	2047.5	Pass

1.3 Frequency Error for SA_Part90(10 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
10 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	0.35	-2047.5	2047.5	Pass

1.4 Frequency Error for SA_Part90(20 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
20 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	-1.27	-2047.5	2047.5	Pass

1.5 Frequency Error for SA_Part90(25 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
25 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	-1.33	-2047.5	2047.5	Pass

1.6 Frequency Error for SA_Part90(30 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
30 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	0.4	-2047.5	2047.5	Pass

1.7 Frequency Error for SA_Part90(40 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
40 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	-0.41	-2047.5	2047.5	Pass

1.8 Frequency Error for SA_Part90(50 Degree)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
50 Degree	163800	10	15	DFT-s-OFDM	50	0	QPSK	-1.24	-2047.5	2047.5	Pass

1.9 Frequency Error for SA_Part90(NTHV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTHV	163800	10	15	DFT-s-OFDM	50	0	QPSK	-0.66	-2047.5	2047.5	Pass

1.10 Frequency Error for SA_Part90(NTLV)

Test Environment	UL Channel	Bandwidth (MHz)	SCS (kHz)	UL OFDM	UL RB Number	UL RB Position	Modulation	Measured (Hz)	Lower Limit (Hz)	Upper Limit (Hz)	Verdict
NTLV	163800	10	15	DFT-s-OFDM	50	0	QPSK	-0.92	-2047.5	2047.5	Pass