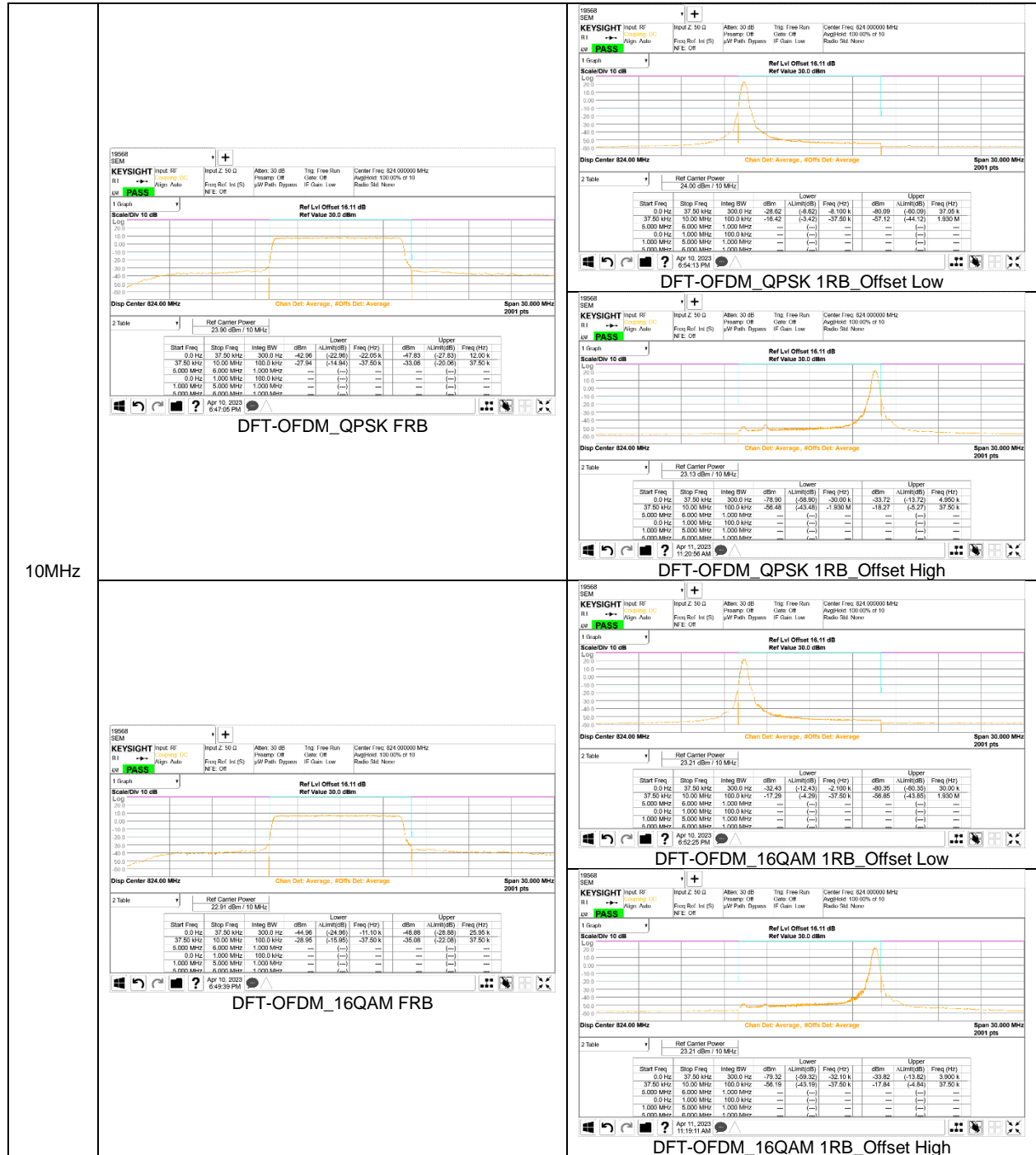


NR Band n26 (Straddle)

20MHz	<p>19558 SEM                  KEYSIGHT Input RF Inpt Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 824.000000 MHz                  R1 Presamp: Off Gain: Off Avg: 100.00% or 10 Radio Stk: None                  Scale/Div: 10 dB Ref Lvl Offset: 16.11 dB Ref Value: 30.0 dBm                  Disp Center: 824.00 MHz Chan Det: Average, #Ofs Det: Average Span: 60.000 MHz                  2 Table Ref Carrier Power: 23.44 dBm / 20 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>37.50 kHz</td> <td>300.0 Hz</td> <td>-44.92</td> <td>(-24.92)</td> <td>-22.05 k</td> <td>-46.78</td> <td>(-26.78)</td> <td>18.00 k</td> </tr> <tr> <td>37.50 kHz</td> <td>20.00 MHz</td> <td>100.0 kHz</td> <td>-31.31</td> <td>(-16.31)</td> <td>-37.50 k</td> <td>-32.40</td> <td>(-18.40)</td> <td>37.50 k</td> </tr> <tr> <td>6.000 MHz</td> <td>6.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>0.0 Hz</td> <td>1.000 MHz</td> <td>100.0 kHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>1.000 MHz</td> <td>5.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>6.000 MHz</td> <td>6.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> </tbody> </table> <p>DFT-OFDM_QPSK FRB</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower	Freq (Hz)	dBm	Upper	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-44.92	(-24.92)	-22.05 k	-46.78	(-26.78)	18.00 k	37.50 kHz	20.00 MHz	100.0 kHz	-31.31	(-16.31)	-37.50 k	-32.40	(-18.40)	37.50 k	6.000 MHz	6.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	0.0 Hz	1.000 MHz	100.0 kHz	--	(--)	--	--	(--)	--	1.000 MHz	5.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	6.000 MHz	6.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	<p>19558 SEM                  KEYSIGHT Input RF Inpt Z: 50 Ω Att: 30 dB Trig: Free Run Center Freq: 824.000000 MHz                  R1 Presamp: Off Gain: Off Avg: 100.00% or 10 Radio Stk: None                  Scale/Div: 10 dB Ref Lvl Offset: 16.11 dB Ref Value: 30.0 dBm                  Disp Center: 824.00 MHz Chan Det: Average, #Ofs Det: Average Span: 60.000 MHz                  2 Table Ref Carrier Power: 23.11 dBm / 20 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>37.50 kHz</td> <td>300.0 Hz</td> <td>-39.56</td> <td>(-19.56)</td> <td>-7.050 k</td> <td>-40.63</td> <td>(-20.63)</td> <td>9.000 k</td> </tr> <tr> <td>37.50 kHz</td> <td>20.00 MHz</td> <td>100.0 kHz</td> <td>-23.47</td> <td>(-13.47)</td> <td>-37.50 k</td> <td>-24.57</td> <td>(-14.57)</td> <td>37.50 k</td> </tr> <tr> <td>6.000 MHz</td> <td>6.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>0.0 Hz</td> <td>1.000 MHz</td> <td>100.0 kHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>1.000 MHz</td> <td>5.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> <tr> <td>6.000 MHz</td> <td>6.000 MHz</td> <td>1.000 MHz</td> <td>--</td> <td>(--)</td> <td>--</td> <td>--</td> <td>(--)</td> <td>--</td> </tr> </tbody> </table> <p>DFT-OFDM_QPSK 1RB_Offset Low</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower	Freq (Hz)	dBm	Upper	Freq (Hz)	0.0 Hz	37.50 kHz	300.0 Hz	-39.56	(-19.56)	-7.050 k	-40.63	(-20.63)	9.000 k	37.50 kHz	20.00 MHz	100.0 kHz	-23.47	(-13.47)	-37.50 k	-24.57	(-14.57)	37.50 k	6.000 MHz	6.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	0.0 Hz	1.000 MHz	100.0 kHz	--	(--)	--	--	(--)	--	1.000 MHz	5.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--	6.000 MHz	6.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--
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0.0 Hz	37.50 kHz	300.0 Hz	-78.96	(-58.96)	-3.000 k	-37.98	(-17.98)	6.900 k																																																																																																																								
37.50 kHz	20.00 MHz	100.0 kHz	-56.82	(-36.82)	-1.688 k	-24.47	(-14.47)	37.50 k																																																																																																																								
6.000 MHz	6.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--																																																																																																																								
0.0 Hz	1.000 MHz	100.0 kHz	--	(--)	--	--	(--)	--																																																																																																																								
1.000 MHz	5.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--																																																																																																																								
6.000 MHz	6.000 MHz	1.000 MHz	--	(--)	--	--	(--)	--																																																																																																																								







## 8.5. CONDUCTED SPURIOUS EMISSIONS

### RULE PART(S)

FCC: §2.1051, §22.901, §22.917 and 90.691

### LIMITS

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

Part 90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \text{ Log}_{10}(f/6.1)$  decibels or  $50 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{ Log}_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

### TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz  
(Tests were performed 1MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW  $\geq 3 \times$  RBW;
- c) Set span  $\geq 1.5$  times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average(WCDMA, LTE, 5G NR), Max hold(GSM);

### NOTE1

5G NR: All Waveforms (CP-OFDM vs DFT-s\_OFDM) and modulations ( $\pi/2$  BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

### NOTE2

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

### RESULTS

See the following pages.



### 8.5.1. OUT OF BAND EMISSIONS RESULT

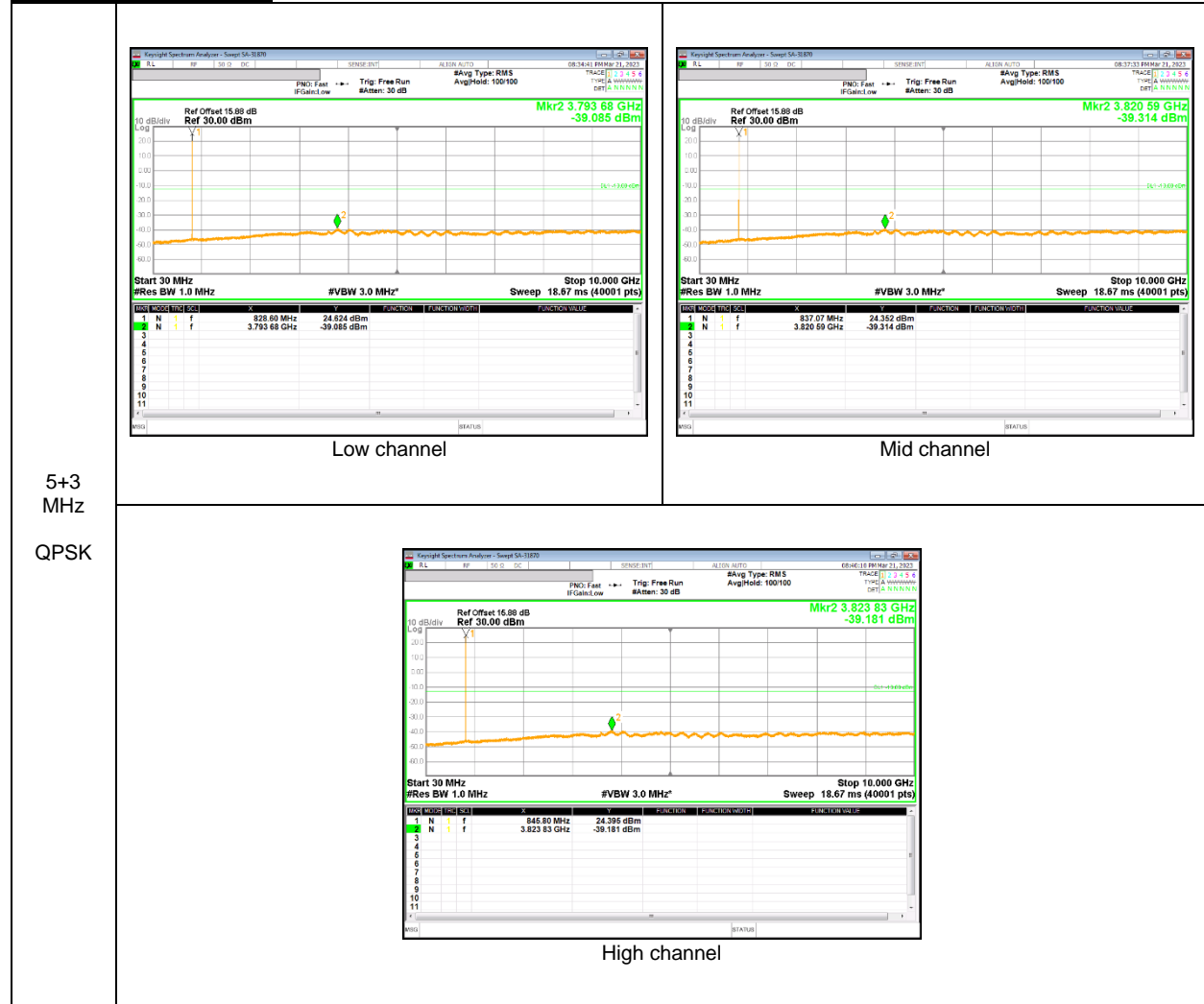
#### GSM 850



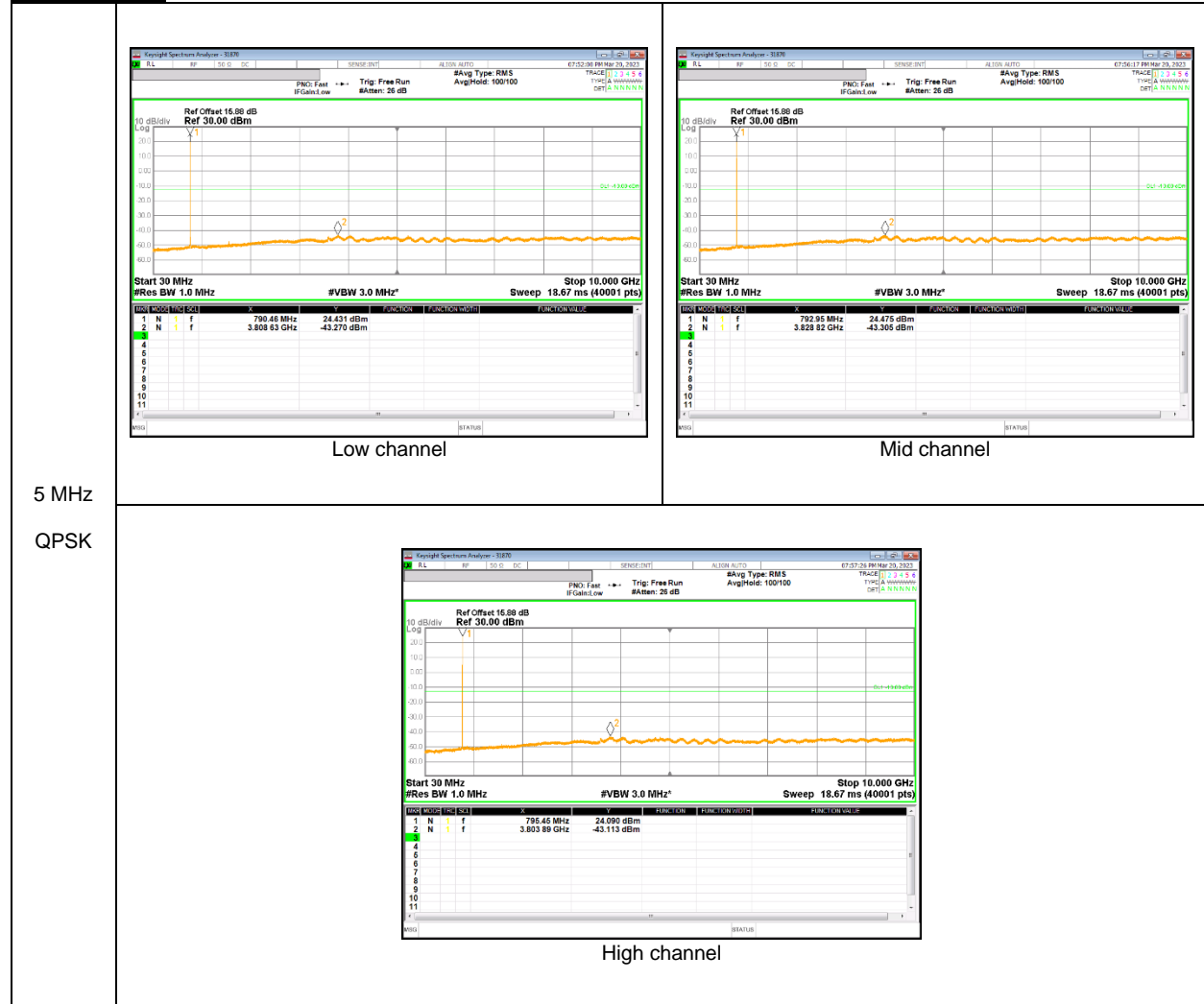
WCDMA Band 5



**LTE Band 5B (UL CA)**



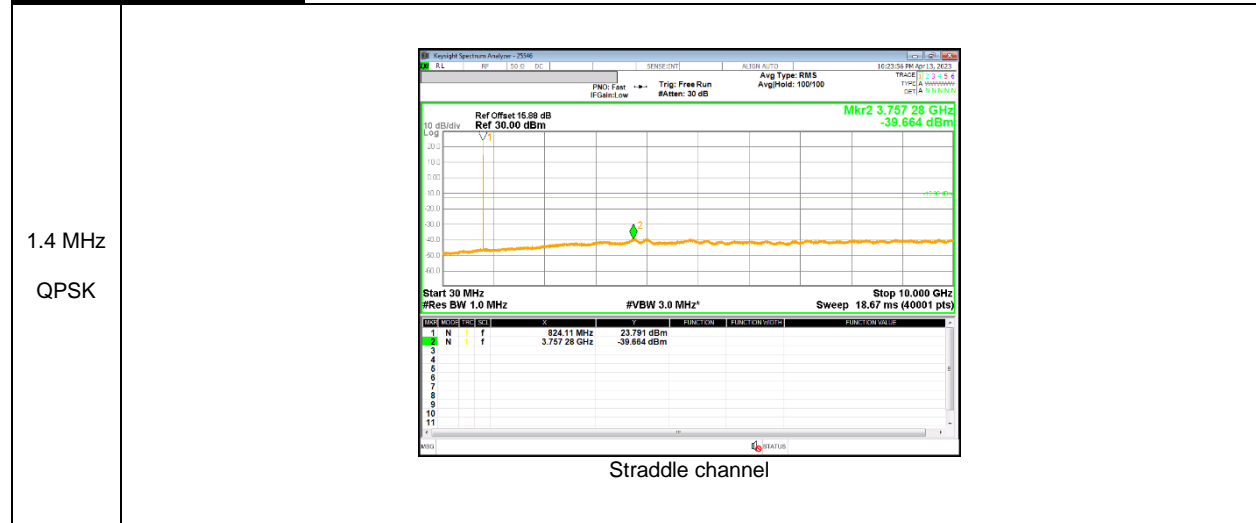
**LTE Band 14**



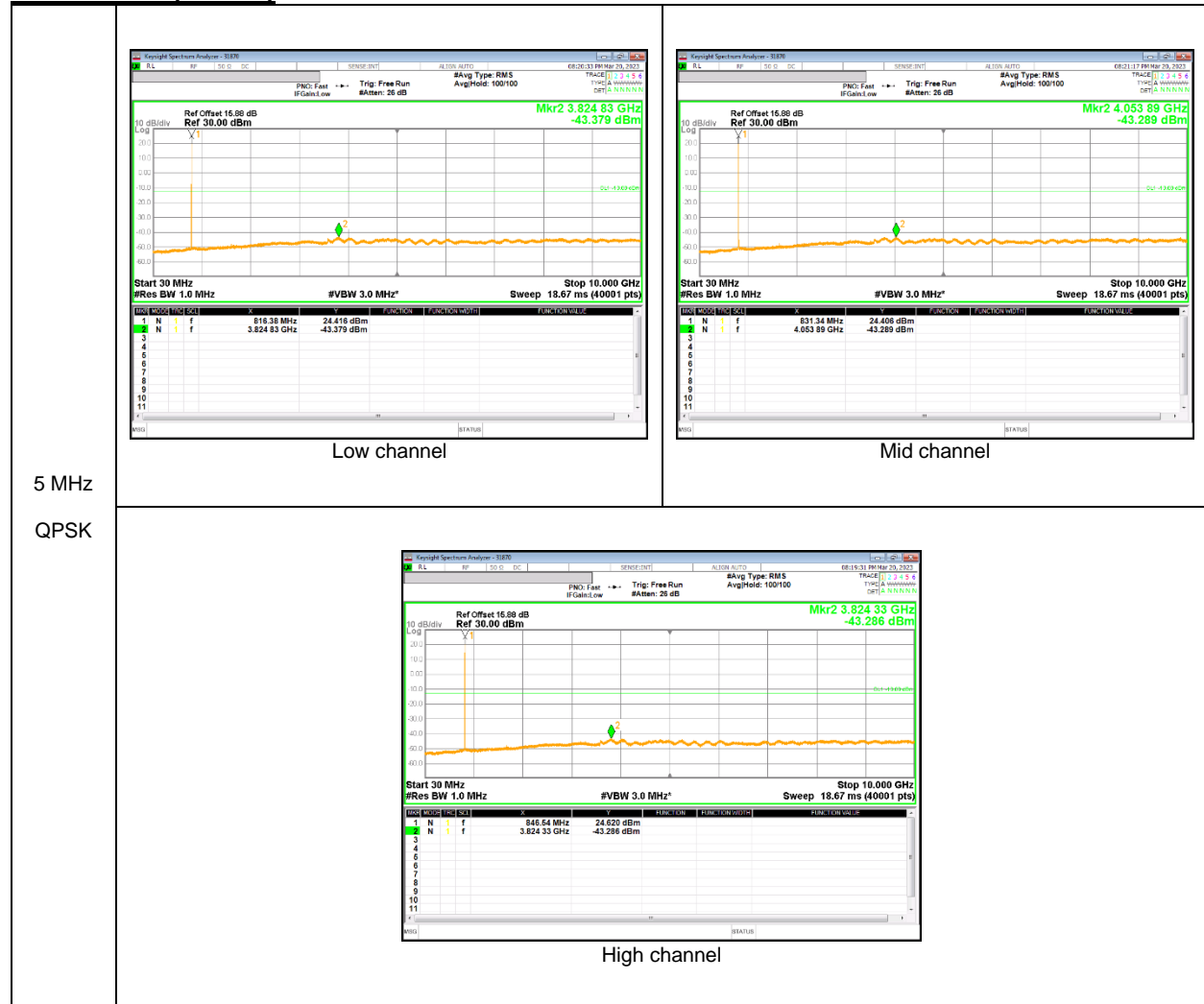
**LTE Band 26(Part 90)**



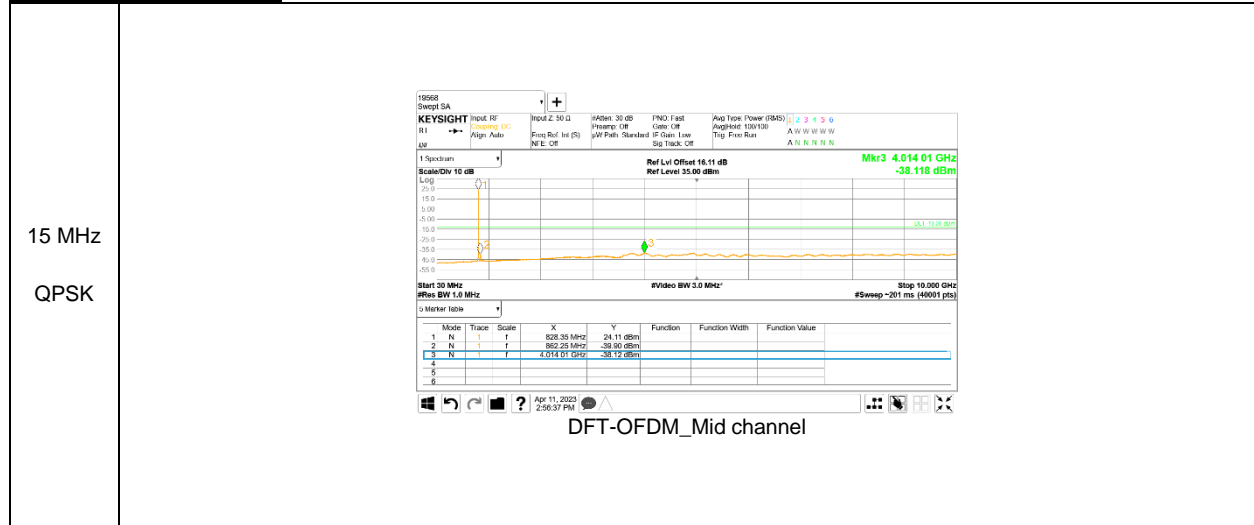
**LTE Band 26 (Straddle)**



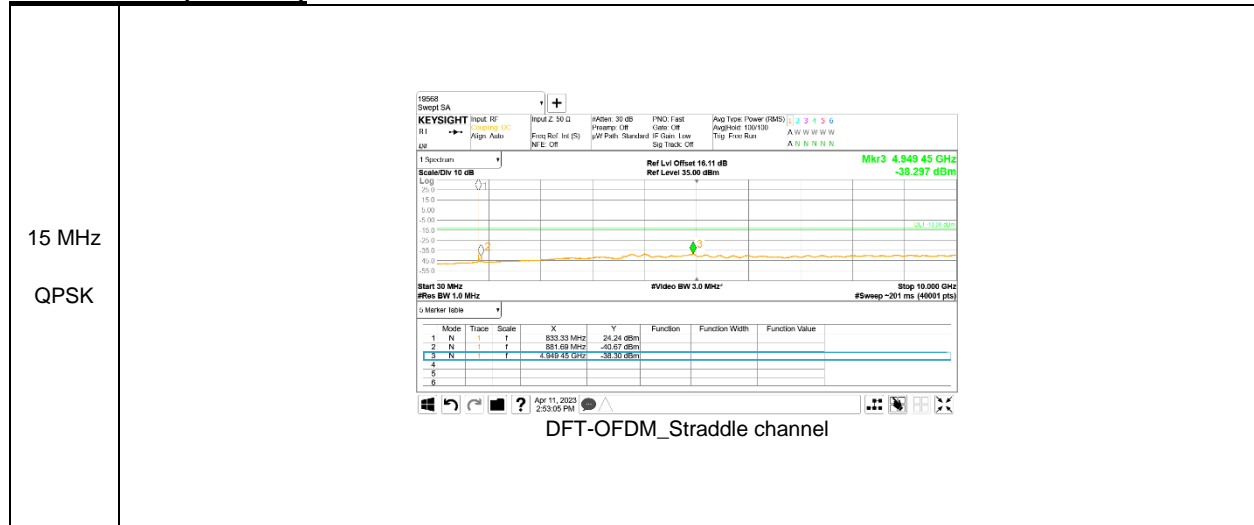
**LTE Band 26 (Part 22)**



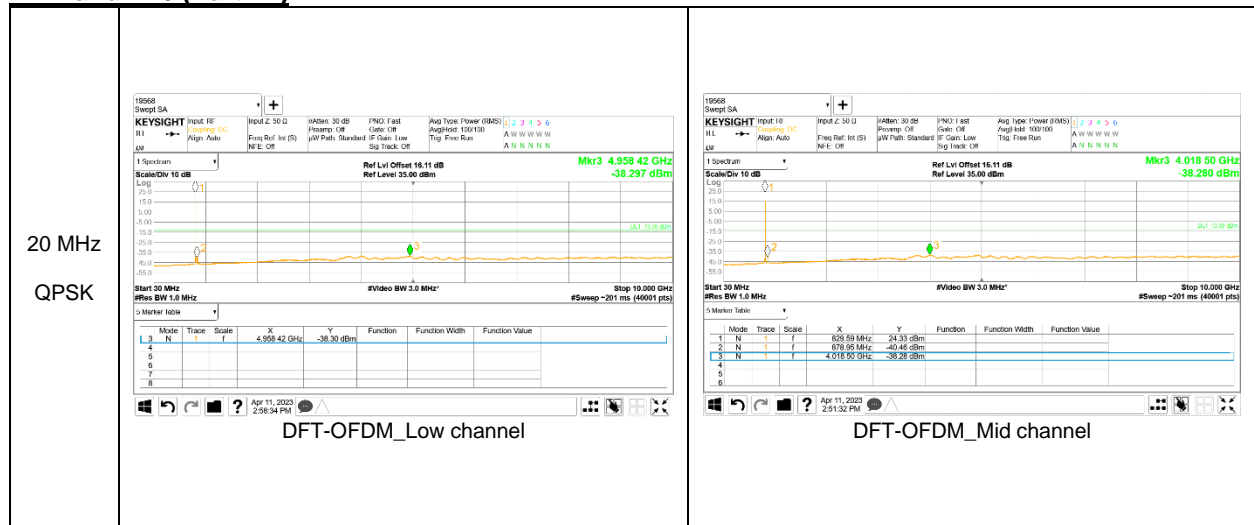
**NR Band n26(Part 90)**



**NR Band n26 (Straddle)**



**NR Band n26 (Part 22)**



## **8.6. FREQUENCY STABILITY**

### **RULE PART(S)**

FCC: §2.1055, §22.355 and §90.213

### **LIMITS**

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

§90.213 - The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

### **TEST PROCEDURE**

Per KDB 971168 D01 Power Meas License Digital Systems v03r01

### **NOTE**

Test were performed each lowest or highest frequency on the modulation condition of more wide bandwidth.(Please refer to section 9.1.1 OBW results)

### **RESULTS**

See the following pages.



### 8.6.1. FREQUENCY STABILITY RESULTS

#### GSM 850, Channel 128/251, Frequency 824.2/848.8 MHz

Test Date	2023-03-15
Test Engineer	19568

Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2060.500	Hz	High Channel	2122.000	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	824.20000504	0.001	848.80000443	0.001	2.5
3.88	40	824.20000453	0.002	848.80000493	0.000	2.5
3.88	30	824.20000497	0.001	848.80000410	0.001	2.5
<b>3.88</b>	<b>20</b>	<b>824.20000620</b>	<b>0.000</b>	<b>848.80000511</b>	<b>0.000</b>	<b>2.5</b>
3.88	10	824.20000648	0.000	848.80000594	-0.001	2.5
3.88	0	824.20000797	-0.002	848.80000664	-0.002	2.5
3.88	-10	824.20000687	-0.001	848.80000672	-0.002	2.5
3.88	-20	824.20000732	-0.001	848.80000676	-0.002	2.5
3.88	-30	824.20000703	-0.001	848.80000686	-0.002	2.5

Reference Frequency : GSM850 Low Channel 824.2 MHz / High Channel 848.8 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2060.500	Hz	High Channel	2122.000	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
<b>3.88</b>	<b>20</b>	<b>824.20000620</b>	<b>0</b>	<b>848.80000511</b>	<b>0</b>	<b>2.5</b>
4.45	20	824.20002981	-0.029	848.80002945	-0.029	2.5
3.70	20	824.20003229	-0.032	848.80003301	-0.033	2.5

#### WCDMA Band 5

Test Date	2023-03-21
Test Engineer	19568

Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2066.000	Hz	High Channel	2116.500	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
3.88	50	826.40002090	0.000	846.60001762	0.010	2.5
3.88	40	826.40001609	0.006	846.60001499	0.013	2.5
3.88	30	826.40001754	0.004	846.60001904	0.008	2.5
<b>3.88</b>	<b>20</b>	<b>826.40002119</b>	<b>0.000</b>	<b>846.60002609</b>	<b>0.000</b>	<b>2.5</b>
3.88	10	826.40001886	0.003	846.60002514	0.001	2.5
3.88	0	826.40001382	0.009	846.60001709	0.011	2.5
3.88	-10	826.40001588	0.006	846.60001194	0.017	2.5
3.88	-20	826.40001793	0.004	846.60002109	0.006	2.5
3.88	-30	826.40002250	-0.002	846.60001919	0.008	2.5

Reference Frequency : WCDMA Band 5 Low Channel 826.4 MHz / High Channel 846.6 MHz @ 20°C						
Limit: +- 2.5 ppm =	Low Channel	2066.000	Hz	High Channel	2116.500	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]
		Low Channel		High Channel		
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]	
<b>3.88</b>	<b>20</b>	<b>826.40002119</b>	<b>0</b>	<b>846.60002609</b>	<b>0</b>	<b>2.5</b>
4.45	20	826.40000276	0.022	846.60000343	0.027	2.5
3.70	20	826.40000272	0.022	846.60000335	0.027	2.5

**LTE Band 14 (Lowest Frequency: 16QAM / Highest Frequency: 16QAM)**

Test Date	2023-03-31
Test Engineer	19568

Limit		788	798	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ End of OBW	F high @ End of OBW		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	788.2465	797.7479	16.6	0.021
Extreme (50C)		788.2465	797.7479		
Extreme (40C)		788.2465	797.7479		
Extreme (30C)		788.2465	797.7479		
Extreme (10C)		788.2465	797.7479		
Extreme (0C)		788.2465	797.7479		
Extreme (-10C)		788.2465	797.7479		
Extreme (-20C)		788.2465	797.7479		
Extreme (-30C)		788.2465	797.7479		
20C		15%	788.2465		
	-15%	788.2465	797.7479	4.2	0.005
	End Point	788.2465	797.7479	4.3	0.005

**LTE Band 26**

Test Date	2023-03-28
Test Engineer	19568

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C							
Limit: +- 2.5 ppm =		Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]	
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	50	814.70000482	0.001	848.30000458	0.002	2.5	
3.88	40	814.70000420	0.002	848.30000510	0.001	2.5	
3.88	30	814.70000453	0.001	848.30000429	0.002	2.5	
<b>3.88</b>	<b>20</b>	<b>814.70000565</b>	<b>0.000</b>	<b>848.30000613</b>	<b>0.000</b>	<b>2.5</b>	
3.88	10	814.70000582	0.000	848.30000617	0.000	2.5	
3.88	0	814.70000720	-0.002	848.30000689	-0.001	2.5	
3.88	-10	814.70000599	0.000	848.30000699	-0.001	2.5	
3.88	-20	814.70000633	-0.001	848.30000705	-0.001	2.5	
3.88	-30	814.70000593	0.000	848.30000717	-0.001	2.5	

Reference Frequency : Low Channel 814.7 MHz / High Channel 848.3 MHz @ 20°C							
Limit: +- 2.5 ppm =		Low Channel	2036.750	Hz	High Channel	2120.750	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse				Limit [ppm]	
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
<b>3.88</b>	<b>20</b>	<b>814.70000565</b>	<b>0</b>	<b>848.30000613</b>	<b>0</b>	<b>2.5</b>	
4.45	20	814.70000514	0.001	848.30000555	0.001	2.5	
3.70	20	814.70000493	0.001	848.30000478	0.002	2.5	

**NR Band n26**

Test Date	2023-04-13
Test Engineer	47989

Reference Frequency : Low Channel 816.5 MHz / High Channel 846.5 MHz @ 20°C							
Limit: +- 2.5 ppm =		Low Channel	2041.250	Hz	High Channel	2116.250	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					Limit [ppm]
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
3.88	50	816.50000264	-0.002	846.50000285	-0.001	2.5	
3.88	40	816.50000308	-0.002	846.50000272	-0.001	2.5	
3.88	30	816.50000284	-0.002	846.50000268	0.000	2.5	
<b>3.88</b>	<b>20</b>	<b>816.50000114</b>	<b>0.000</b>	<b>846.50000226</b>	<b>0.000</b>	<b>2.5</b>	
3.88	10	816.50000209	-0.001	846.50000261	0.000	2.5	
3.88	0	816.50000265	-0.002	846.50000296	-0.001	2.5	
3.88	-10	816.50000213	-0.001	846.50000175	0.001	2.5	
3.88	-20	816.50000167	-0.001	846.50000282	-0.001	2.5	
3.88	-30	816.50000321	-0.003	846.50000376	-0.002	2.5	

Reference Frequency : Low Channel 816.5 MHz / High Channel 846.5 MHz @ 20°C							
Limit: +- 2.5 ppm =		Low Channel	2041.250	Hz	High Channel	2116.250	Hz
Power Supply [Vdc]	Environment Temperature [°C]	Frequency Deviation Measured with Time Elapse					Limit [ppm]
		Low Channel		High Channel			
		[MHz]	Delta [ppm]	[MHz]	Delta [ppm]		
<b>3.88</b>	<b>20</b>	<b>816.50000114</b>	<b>0</b>	<b>846.50000226</b>	<b>0</b>	<b>2.5</b>	
4.45	20	816.50001945	-0.022	846.50002042	-0.021	2.5	
3.70	20	816.50002258	-0.026	846.50002135	-0.023	2.5	

## 9. RADIATED RESULTS

### 9.1. RADIATED POWER (ERP)

#### RULE PART(S)

FCC: §2.1046, §22.913, §90.542 and §90.635

#### LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

90.542(a)(7) - Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

#### TEST PROCEDURE

ANSI / TIA / EIA 603 E Clause 2.2.17; ESU40 setting reference to 971168 D01 v03r01

For radiated output power measurement with a ESU40:

- a) Set the RBW  $\geq$  OBW;
- b) Set VBW  $\geq$  3  $\times$  RBW;
- c) Set span  $\geq$  2  $\times$  RBW;
- d) Sweep time = auto couple or 1 second;
- e) Detector = rms;
- f) Ensure that the number of measurement points  $\geq$  span/RBW;
- g) Trace mode = max hold(GSM, WCDMA), average(LTE, 5G NR);

#### TEST RESULTS

See the following pages.

### 9.1.1. ERP Results

#### GSM (ANT A+B)

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
GSM 850	GPRS	824.20	31.86	H	3.01	-1.03	27.82	605.34	38.50	-10.68
		836.60	31.29	H	3.03	-0.97	27.29	535.80	38.50	-11.21
		848.80	31.71	H	3.05	-0.91	27.75	595.66	38.50	-10.75
	EGPRS	824.20	27.30	H	3.01	-1.03	23.26	211.84	38.50	-15.24
		836.60	27.01	H	3.03	-0.97	23.01	199.99	38.50	-15.49
		848.80	27.21	H	3.05	-0.91	23.25	211.35	38.50	-15.25

#### GSM (ANT A)

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
GSM 850	GPRS	824.20	26.49	V	3.01	-1.03	22.46	176.20	38.50	-16.04
		836.60	26.98	V	3.03	-0.97	22.98	198.61	38.50	-15.52
		848.80	22.44	H	3.05	-0.91	18.48	70.47	38.50	-20.02
	EGPRS	824.20	22.78	V	3.01	-1.03	18.75	74.99	38.50	-19.75
		836.60	18.96	H	3.03	-0.97	14.96	31.33	38.50	-23.54
		848.80	18.35	H	3.05	-0.91	14.39	27.48	38.50	-24.11

#### WCDMA (ANT A+B)

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
Band 5	REL99	826.40	24.74	H	3.01	-1.02	20.71	117.76	38.50	-17.79
		836.60	24.34	H	3.03	-0.97	20.34	108.14	38.50	-18.16
		846.60	24.58	H	3.05	-0.92	20.62	115.35	38.50	-17.88
	HSDPA	826.40	23.88	H	3.01	-1.02	19.85	96.61	38.50	-18.65
		836.60	23.08	H	3.03	-0.97	19.08	80.91	38.50	-19.42
		846.60	23.46	H	3.05	-0.92	19.50	89.13	38.50	-19.00

#### WCDMA (ANT A)

Band	Mode	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)
Band 5	REL99	826.40	19.92	V	3.01	-1.02	15.89	38.82	38.50	-22.61
		836.60	20.84	V	3.03	-0.97	16.84	48.31	38.50	-21.66
		846.60	21.37	V	3.05	-0.92	17.40	54.95	38.50	-21.10
	HSDPA	826.40	19.77	V	3.01	-1.02	15.74	37.50	38.50	-22.76
		836.60	20.67	V	3.03	-0.97	16.67	46.45	38.50	-21.83
		846.60	20.53	V	3.05	-0.92	16.56	45.29	38.50	-21.94

**LTE Band 14 (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	790.50	22.60	H	2.95	-1.17	18.48	70.47	34.77	-16.29	1/12
		793.00	22.07	H	2.95	-1.16	17.95	62.37	34.77	-16.82	1/12
		795.50	21.95	H	2.96	-1.16	17.83	60.67	34.77	-16.94	1/12
	16-QAM	790.50	21.53	H	2.95	-1.17	17.41	55.08	34.77	-17.36	1/12
		793.00	20.92	H	2.95	-1.16	16.80	47.86	34.77	-17.97	1/12
		795.50	20.94	H	2.96	-1.16	16.82	48.08	34.77	-17.95	1/12
10	QPSK	793.00	21.85	H	2.95	-1.16	17.73	59.29	34.77	-17.04	1/49
	16-QAM	793.00	20.76	H	2.95	-1.16	16.64	46.13	34.77	-18.13	1/49

**LTE Band 14 (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	790.50	24.27	V	2.95	-1.17	20.15	103.51	34.77	-14.62	1/12
		793.00	24.01	V	2.95	-1.16	19.90	97.72	34.77	-14.87	1/12
		795.50	23.82	V	2.96	-1.16	19.70	93.33	34.77	-15.07	1/12
	16-QAM	790.50	23.32	V	2.95	-1.17	19.20	83.18	34.77	-15.57	1/12
		793.00	22.76	V	2.95	-1.16	18.65	73.28	34.77	-16.12	1/12
		795.50	22.58	V	2.96	-1.16	18.46	70.15	34.77	-16.31	1/12
10	QPSK	793.00	23.26	V	2.95	-1.16	19.15	82.22	34.77	-15.62	1/49
	16-QAM	793.00	22.18	V	2.95	-1.16	18.07	64.12	34.77	-16.70	1/49

**LTE Band 26 (ANT A+B)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	814.70	22.71	H	2.99	-1.08	18.64	73.11	50.00	-19.86	1/3
		823.30	23.27	H	3.01	-1.03	19.23	83.75	50.00	-19.27	1/5
		824.70	23.37	H	3.01	-1.03	19.33	85.70	38.50	-19.17	1/3
		831.50	23.79	H	3.02	-0.99	19.77	94.84	38.50	-18.73	1/3
		848.30	23.07	H	3.05	-0.91	19.11	81.47	38.50	-19.39	1/3
	16-QAM	814.70	21.69	H	2.99	-1.08	17.62	57.81	50.00	-20.88	1/3
		823.30	22.03	H	3.01	-1.03	17.99	62.95	50.00	-20.51	1/0
		824.70	22.46	H	3.01	-1.03	18.42	69.50	38.50	-20.08	1/0
		831.50	22.82	H	3.02	-0.99	18.80	75.86	38.50	-19.70	1/0
		848.30	22.14	H	3.05	-0.91	18.18	65.77	38.50	-20.32	1/3
3	QPSK	815.50	22.79	H	2.99	-1.07	18.73	74.64	50.00	-19.77	1/8
		822.50	23.39	H	3.01	-1.04	19.34	85.90	50.00	-19.16	1/8
		825.50	23.61	H	3.01	-1.02	19.58	90.78	38.50	-18.92	1/8
		831.50	23.82	H	3.02	-0.99	19.80	96.50	38.50	-18.70	1/8
		847.50	23.58	H	3.05	-0.91	19.61	91.41	38.50	-18.89	1/8
	16-QAM	815.50	21.48	H	2.99	-1.07	17.42	55.21	50.00	-21.08	1/0
		822.50	22.27	H	3.01	-1.04	18.22	66.37	50.00	-20.28	1/8
		825.50	22.56	H	3.01	-1.02	18.53	71.29	38.50	-19.97	1/8
		831.50	22.74	H	3.02	-0.99	18.72	74.47	38.50	-19.78	1/8
		847.50	22.51	H	3.05	-0.91	18.54	71.45	38.50	-19.96	1/8
5	QPSK	816.50	22.95	H	3.00	-1.07	18.88	77.27	50.00	-19.62	1/12
		821.50	22.99	H	3.01	-1.04	18.94	78.34	50.00	-19.56	1/0
		826.50	23.74	H	3.01	-1.02	19.71	93.54	38.50	-18.79	1/12
		831.50	23.68	H	3.02	-0.99	19.66	92.47	38.50	-18.84	1/12
		846.50	23.53	H	3.05	-0.92	19.57	90.57	38.50	-18.93	1/12
	16-QAM	816.50	21.97	H	3.00	-1.07	17.90	61.66	50.00	-20.60	1/12
		821.50	22.09	H	3.01	-1.04	18.04	63.68	50.00	-20.46	1/12
		826.50	22.50	H	3.01	-1.02	18.47	70.31	38.50	-20.03	1/12
		831.50	22.61	H	3.02	-0.99	18.59	72.28	38.50	-19.91	1/12
		846.50	22.47	H	3.05	-0.92	18.51	70.96	38.50	-19.99	1/12
10	QPSK	819.00	22.72	H	3.00	-1.06	18.67	73.62	50.00	-19.83	1/0
		829.00	23.45	H	3.02	-1.01	19.42	87.50	38.50	-19.08	1/0
		831.50	23.77	H	3.02	-0.99	19.75	94.41	38.50	-18.75	1/25
		844.00	23.73	H	3.04	-0.93	19.75	94.41	38.50	-18.75	1/25
		819.00	21.78	H	3.00	-1.06	17.73	59.29	50.00	-20.77	1/25
	16-QAM	829.00	22.60	H	3.02	-1.01	18.57	71.94	38.50	-19.93	1/0
		831.50	22.87	H	3.02	-0.99	18.85	76.74	38.50	-19.65	1/25
		844.00	22.67	H	3.04	-0.93	18.69	73.96	38.50	-19.81	1/25
		821.50	22.48	H	3.01	-1.04	18.43	69.66	50.00	-20.07	1/0
		831.50	23.44	H	3.02	-0.99	19.42	87.50	38.50	-19.08	1/37
15	QPSK	841.50	23.51	H	3.04	-0.94	19.53	89.74	38.50	-18.97	1/74
		821.50	21.46	H	3.01	-1.04	17.41	55.08	50.00	-21.09	1/0
		831.50	22.37	H	3.02	-0.99	18.35	68.39	38.50	-20.15	1/0
	16-QAM	841.50	22.54	H	3.04	-0.94	18.56	71.78	38.50	-19.94	1/74

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	824.00	23.28	H	3.01	-1.03	19.24	83.95	38.50	-19.26	1/5
	16-QAM		22.21	H	3.01	-1.03	18.17	65.61	38.50	-20.33	1/0
3	QPSK		23.59	H	3.01	-1.03	19.55	90.16	38.50	-18.95	1/8
	16-QAM		22.52	H	3.01	-1.03	18.48	70.47	38.50	-20.02	1/8
5	QPSK		23.56	H	3.01	-1.03	19.52	89.54	38.50	-18.98	1/0
	16-QAM		22.39	H	3.01	-1.03	18.35	68.39	38.50	-20.15	1/12
10	QPSK		23.45	H	3.01	-1.03	19.41	87.22	38.50	-19.09	1/25
	16-QAM		22.27	H	3.01	-1.03	18.23	66.53	38.50	-20.27	1/0
15	QPSK		22.77	H	3.01	-1.03	18.73	78.73	38.50	-19.77	1/0
	16-QAM		21.98	H	3.01	-1.03	17.94	62.23	38.50	-20.56	1/37

**LTE Band 26 (ANT A)**

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	814.70	20.38	V	2.99	-1.08	16.31	42.76	50.00	-33.69	1/3
		823.30	21.40	V	3.01	-1.03	17.36	54.45	50.00	-32.64	1/5
		824.70	21.32	V	3.01	-1.03	17.28	53.46	38.50	-21.22	1/3
		831.50	22.13	V	3.02	-0.99	18.11	64.71	38.50	-20.39	1/3
		848.30	21.46	V	3.05	-0.91	17.50	56.23	38.50	-21.00	1/3
	16-QAM	814.70	19.28	V	2.99	-1.08	15.21	33.19	50.00	-34.79	1/3
		823.30	20.30	V	3.01	-1.03	16.26	42.27	50.00	-33.74	1/0
		824.70	20.28	V	3.01	-1.03	16.24	42.07	38.50	-22.26	1/0
		831.50	21.00	V	3.02	-0.99	16.98	49.89	38.50	-21.52	1/0
		848.30	20.41	V	3.05	-0.91	16.45	44.16	38.50	-22.05	1/3
3	QPSK	815.50	20.73	V	2.99	-1.07	16.66	46.34	50.00	-33.34	1/8
		822.50	20.86	V	3.01	-1.04	16.81	47.97	50.00	-33.19	1/8
		825.50	21.48	V	3.01	-1.02	17.45	55.59	38.50	-21.05	1/8
		831.50	22.43	V	3.02	-0.99	18.41	69.34	38.50	-20.09	1/8
		847.50	21.99	V	3.05	-0.91	18.03	63.53	38.50	-20.47	1/8
	16-QAM	815.50	19.36	V	2.99	-1.07	15.29	33.81	50.00	-34.71	1/0
		822.50	19.77	V	3.01	-1.04	15.72	37.33	50.00	-34.28	1/8
		825.50	20.31	V	3.01	-1.02	16.28	42.46	38.50	-22.22	1/8
		831.50	21.52	V	3.02	-0.99	17.50	56.23	38.50	-21.00	1/8
		847.50	21.00	V	3.05	-0.91	17.04	50.58	38.50	-21.46	1/8
5	QPSK	816.50	20.60	V	3.00	-1.07	16.53	44.98	50.00	-33.47	1/12
		821.50	21.03	V	3.01	-1.04	16.98	49.89	50.00	-33.02	1/0
		826.50	21.78	V	3.01	-1.02	17.75	59.57	38.50	-20.75	1/12
		831.50	22.44	V	3.02	-0.99	18.42	69.50	38.50	-20.08	1/12
		846.50	21.95	V	3.05	-0.92	17.98	62.81	38.50	-20.52	1/12
	16-QAM	816.50	19.45	V	3.00	-1.07	15.38	34.51	50.00	-34.62	1/12
		821.50	19.80	V	3.01	-1.04	15.75	37.58	50.00	-34.25	1/12
		826.50	20.81	V	3.01	-1.02	16.78	47.64	38.50	-21.72	1/12
		831.50	21.55	V	3.02	-0.99	17.53	56.62	38.50	-20.97	1/12
		846.50	20.91	V	3.05	-0.92	16.94	49.43	38.50	-21.56	1/12
10	QPSK	819.00	20.71	V	3.00	-1.06	16.66	46.34	50.00	-33.34	1/0
		829.00	22.16	V	3.02	-1.01	18.14	65.16	38.50	-20.36	1/0
		831.50	22.54	V	3.02	-0.99	18.52	71.12	38.50	-19.98	1/25
		844.00	22.48	V	3.04	-0.93	18.50	70.79	38.50	-20.00	1/25
		819.00	19.80	V	3.00	-1.06	15.75	37.58	50.00	-34.25	1/25
	16-QAM	829.00	21.09	V	3.02	-1.01	17.07	50.93	38.50	-21.43	1/0
		831.50	21.33	V	3.02	-0.99	17.31	53.83	38.50	-21.19	1/25
		844.00	21.40	V	3.04	-0.93	17.43	55.34	38.50	-21.07	1/25
		821.50	20.81	V	3.01	-1.04	16.76	47.42	50.00	-33.24	1/0
		831.50	22.53	V	3.02	-0.99	18.51	70.96	38.50	-19.99	1/37
15	QPSK	841.50	22.07	V	3.04	-0.94	18.09	64.42	38.50	-20.41	1/74
		821.50	19.79	V	3.01	-1.04	15.74	37.50	50.00	-34.26	1/0
		831.50	21.44	V	3.02	-0.99	17.42	55.21	38.50	-21.08	1/0
	16-QAM	841.50	21.15	V	3.04	-0.94	17.17	52.12	38.50	-21.33	1/74

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
1.4	QPSK	824.00	21.07	V	3.01	-1.03	17.03	50.47	38.50	-21.47	1/5
	16-QAM		20.07	V	3.01	-1.03	16.03	40.09	38.50	-22.47	1/0
3	QPSK		21.01	V	3.01	-1.03	16.97	49.77	38.50	-21.53	1/8
	16-QAM		20.04	V	3.01	-1.03	16.00	39.81	38.50	-22.50	1/8
5	QPSK		21.31	V	3.01	-1.03	17.27	53.33	38.50	-21.23	1/0
	16-QAM		20.13	V	3.01	-1.03	16.09	40.64	38.50	-22.41	1/12
10	QPSK		21.13	V	3.01	-1.03	17.09	51.17	38.50	-21.41	1/25
	16-QAM		20.16	V	3.01	-1.03	16.12	40.93	38.50	-22.38	1/0
15	QPSK		20.98	V	3.01	-1.03	16.94	49.43	38.50	-21.56	1/0
	16-QAM		20.03	V	3.01	-1.03	15.99	39.72	38.50	-22.51	1/37



**NR Band n26 (ANT A+B)**

DFT-OFDM

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	816.50	23.80	H	3.00	-1.07	19.73	93.97	50.00	-30.27	1/13
		821.50	24.16	H	3.01	-1.04	20.11	102.57	50.00	-29.89	1/13
		826.50	24.28	H	3.01	-1.02	20.25	105.93	38.50	-18.25	1/23
		831.50	24.17	H	3.02	-0.99	20.15	103.51	38.50	-18.35	1/23
		846.50	24.33	H	3.05	-0.92	20.37	108.89	38.50	-18.13	1/1
	16-QAM	816.50	22.80	H	3.00	-1.07	18.73	74.64	50.00	-31.27	1/13
		821.50	23.21	H	3.01	-1.04	19.16	82.41	50.00	-30.84	1/13
		826.50	23.38	H	3.01	-1.02	19.35	86.10	38.50	-19.15	1/23
		831.50	23.21	H	3.02	-0.99	19.19	82.99	38.50	-19.31	1/23
		846.50	23.22	H	3.05	-0.92	19.26	84.33	38.50	-19.24	1/1
10	QPSK	819.00	23.65	H	3.00	-1.06	19.60	91.20	50.00	-30.40	1/26
		829.00	23.53	H	3.02	-1.01	19.50	89.13	38.50	-19.00	1/26
		831.50	24.34	H	3.02	-0.99	20.32	107.65	38.50	-18.18	1/26
		844.00	24.06	H	3.04	-0.93	20.08	101.86	38.50	-18.42	1/26
	16-QAM	819.00	22.57	H	3.00	-1.06	18.52	71.12	50.00	-31.48	1/26
		829.00	22.61	H	3.02	-1.01	18.58	72.11	38.50	-19.92	1/26
		831.50	23.25	H	3.02	-0.99	19.23	83.75	38.50	-19.27	1/26
		844.00	22.58	H	3.04	-0.93	18.60	72.44	38.50	-19.90	1/26
15	QPSK	821.50	23.76	H	3.01	-1.04	19.71	93.54	50.00	-30.29	1/77
		831.50	24.43	H	3.02	-0.99	20.41	109.90	38.50	-18.09	1/40
		841.50	24.13	H	3.04	-0.94	20.15	103.51	38.50	-18.35	1/1
	16-QAM	821.50	22.72	H	3.01	-1.04	18.67	73.62	50.00	-31.33	1/77
		831.50	23.45	H	3.02	-0.99	19.43	87.70	38.50	-19.07	1/40
		841.50	23.09	H	3.04	-0.94	19.11	81.47	38.50	-19.39	1/1
20	QPSK	834.00	23.89	H	3.01	-1.03	19.85	96.61	38.50	-18.65	1/53
		839.00	24.12	H	3.03	-0.98	20.12	102.80	38.50	-18.38	1/1
	16-QAM	834.00	22.61	H	3.01	-1.03	18.57	71.94	38.50	-19.93	1/53
		839.00	22.90	H	3.03	-0.98	18.90	77.62	38.50	-19.60	1/1

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	824.00	24.28	H	3.01	-1.03	20.22	105.20	38.50	-18.28	1/23
	16-QAM		23.28	H	3.01	-1.03	19.24	83.95	38.50	-19.26	1/23
10	QPSK		23.90	H	3.01	-1.03	19.86	96.83	38.50	-18.64	1/50
	16-QAM		22.75	H	3.01	-1.03	18.71	74.30	38.50	-19.79	1/50
15	QPSK		24.02	H	3.01	-1.03	19.98	99.54	38.50	-18.52	1/40
	16-QAM		22.69	H	3.01	-1.03	18.65	73.28	38.50	-19.85	1/40
20	QPSK		23.89	H	3.01	-1.03	19.85	96.61	38.50	-18.65	1/104
	16-QAM		23.34	H	3.03	-0.96	19.35	86.10	38.50	-19.15	1/104

**NR Band n26 (ANT A)**

DFT-OFDM

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	816.50	19.79	V	3.00	-1.07	15.72	37.33	50.00	-34.28	1/13
		821.50	20.19	V	3.01	-1.04	16.14	41.11	50.00	-33.86	1/13
		826.50	20.33	V	3.01	-1.02	16.30	42.66	38.50	-22.20	1/23
		831.50	21.50	V	3.02	-0.99	17.48	55.98	38.50	-21.02	1/23
		846.50	21.98	V	3.05	-0.92	18.01	63.24	38.50	-20.49	1/1
	16-QAM	816.50	18.80	V	3.00	-1.07	14.73	29.72	50.00	-35.27	1/13
		821.50	19.18	V	3.01	-1.04	15.13	32.58	50.00	-34.87	1/13
		826.50	19.36	V	3.01	-1.02	15.33	34.12	38.50	-23.17	1/23
		831.50	20.39	V	3.02	-0.99	16.37	43.35	38.50	-22.13	1/23
		846.50	20.94	V	3.05	-0.92	16.97	49.77	38.50	-21.53	1/1
10	QPSK	819.00	19.90	V	3.00	-1.06	15.85	38.46	50.00	-34.15	1/26
		829.00	20.59	V	3.02	-1.01	16.56	45.29	38.50	-21.94	1/26
		831.50	21.99	V	3.02	-0.99	17.87	61.24	38.50	-20.63	1/26
		844.00	22.09	V	3.04	-0.93	18.11	64.71	38.50	-20.39	1/26
	16-QAM	819.00	18.96	V	3.00	-1.06	14.91	30.97	50.00	-35.09	1/26
		829.00	19.85	V	3.02	-1.01	15.82	38.19	38.50	-22.68	1/26
		831.50	20.52	V	3.02	-0.99	16.50	44.67	38.50	-22.00	1/26
		844.00	21.06	V	3.04	-0.93	17.08	51.05	38.50	-21.42	1/26
15	QPSK	821.50	19.96	V	3.01	-1.04	15.91	38.99	50.00	-34.09	1/77
		831.50	21.53	V	3.02	-0.99	17.51	56.36	38.50	-20.99	1/40
		841.50	21.09	V	3.04	-0.94	17.11	51.40	38.50	-21.39	1/1
	16-QAM	821.50	18.97	V	3.01	-1.04	14.92	31.05	50.00	-35.08	1/77
		831.50	20.77	V	3.02	-0.99	16.75	47.32	38.50	-21.75	1/40
		841.50	20.44	V	3.04	-0.94	16.46	44.26	38.50	-22.04	1/1
20	QPSK	834.00	21.03	V	3.03	-0.98	17.02	50.35	38.50	-21.48	1/53
		839.00	20.80	V	3.03	-0.96	16.81	47.97	38.50	-21.69	1/1
	16-QAM	834.00	20.13	V	3.03	-0.98	16.12	40.93	38.50	-22.38	1/53
		839.00	19.83	V	3.03	-0.96	15.84	38.37	38.50	-22.66	1/1

BW (MHz)	Modulation	f (MHz)	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	ERP (mW)	Limit (dBm)	Delta (dB)	RB
5	QPSK	824.00	20.11	V	3.01	-1.03	16.07	40.46	38.50	-22.43	1/23
	16-QAM		19.08	V	3.01	-1.03	15.04	31.92	38.50	-23.46	1/23
	QPSK		20.04	V	3.01	-1.03	16.00	39.81	38.50	-22.50	1/50
10	16-QAM		19.19	V	3.01	-1.03	15.15	32.73	38.50	-23.35	1/50
	QPSK		19.96	V	3.01	-1.03	15.92	39.08	38.50	-22.58	1/40
15	16-QAM		18.97	V	3.01	-1.03	14.93	31.12	38.50	-23.57	1/40
	QPSK		20.99	V	3.01	-1.03	16.95	49.55	38.50	-21.55	1/104
20	16-QAM		19.79	V	3.01	-1.03	15.75	37.58	38.50	-22.75	1/104

## RADIATED SPURIOUS EMISSION

### **RULE PART(S)**

FCC: §2.1053, §22.917, §90.543 and §90.691

### **LIMIT**

Part 22.917(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

Part 90.543(c)

On any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least  $43 + 10 \log(P)$  dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz

Part 90.543(f)

For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation

Part 90.691(a):

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz. (NOTE : Use 100kHz reference bandwidth)

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

### **TEST PROCEDURE**

ANSI / TIA / EIA 603 E Clause 2.2.12; ESU40 setting reference to 971168 D01 v03r01

For peak power measurement with a ESU40:

- a) Set the RBW = 100 kHz for emission below 1 GHz and 1 MHz for emissions above 1 GHz
- b) Set VBW  $\geq 3 \times$  RBW;
- c) Set span  $\geq 1.5$  times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points  $\geq$  span/RBW;
- g) Trace mode = average(WCDMA, LTE, 5G NR), Maxhold(GSM);

**NOTE1**

5G NR: All Waveforms (CP-OFDM vs DFT-s\_OFDM) and modulations ( $\pi/2$  BPSK, QPSK, 16QAM, 64QAM, 256QAM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

**NOTE2**

Please refer to section 5.4 for bandwidth and RB setting about LTE, 5G NR bands.

**RESULTS**

See the following pages.

### 9.1.2. SPURIOUS RADIATION PLOTS

#### GSM850

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 4790748041 Date: 2023-04-27 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 1 Mode: GPRS 850 MHz Harmonics Test Voltage: AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 824.2MHz										
1648.40	-12.7	V	3.0	46.4	1.0	-58.1	-13.0	-45.1		
2472.60	4.9	V	3.0	46.9	1.0	-40.9	-13.0	-27.9		
3296.80	-5.4	V	3.0	46.6	1.0	-51.0	-13.0	-38.0		
1648.40	-11.5	H	3.0	46.4	1.0	-57.0	-13.0	-44.0		
2472.60	6.3	H	3.0	46.9	1.0	-39.6	-13.0	-26.6		
3296.80	-5.1	H	3.0	46.6	1.0	-50.7	-13.0	-37.7		
Mid Ch, 836.6MHz										
1673.20	-11.4	V	3.0	46.4	1.0	-56.8	-13.0	-43.8		
2509.80	4.4	V	3.0	46.9	1.0	-41.5	-13.0	-28.5		
3346.40	-8.2	V	3.0	46.6	1.0	-53.7	-13.0	-40.7		
1673.20	-11.8	H	3.0	46.4	1.0	-57.3	-13.0	-44.3		
2509.80	9.2	H	3.0	46.9	1.0	-36.7	-13.0	-23.7		
3346.40	-8.0	H	3.0	46.6	1.0	-53.5	-13.0	-40.5		
High Ch, 848.8MHz										
1697.60	-10.0	V	3.0	46.5	1.0	-55.4	-13.0	-42.4		
2546.40	3.0	V	3.0	46.9	1.0	-42.9	-13.0	-29.9		
3395.20	-7.8	V	3.0	46.5	1.0	-53.3	-13.0	-40.3		
1697.60	-12.0	H	3.0	46.5	1.0	-57.4	-13.0	-44.4		
2546.40	5.0	H	3.0	46.9	1.0	-40.9	-13.0	-27.9		
3395.20	-7.7	H	3.0	46.5	1.0	-53.2	-13.0	-40.2		
GPRS ANT A+B										
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
		Company: Samsung Project #: 4790748041 Date: 2023-03-27 Test Engineer: 26087 Configuration: EUT / X-Position, FF Location: Chamber 1 Mode: GPRS 850 MHz Harmonics Test Voltage: AC 120 V, 60 Hz								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 824.2MHz										
1648.40	-12.0	V	3.0	46.4	1.0	-57.5	-13.0	-44.5		
2472.60	4.1	V	3.0	46.9	1.0	-41.8	-13.0	-28.8		
3296.80	-8.2	V	3.0	46.6	1.0	-53.8	-13.0	-40.8		
1648.40	-13.0	H	3.0	46.4	1.0	-58.5	-13.0	-45.5		
2472.60	5.5	H	3.0	46.9	1.0	-40.4	-13.0	-27.4		
3296.80	-8.2	H	3.0	46.6	1.0	-53.8	-13.0	-40.8		
Mid Ch, 836.6MHz										
1673.20	-11.0	V	3.0	46.4	1.0	-56.5	-13.0	-43.5		
2509.80	4.9	V	3.0	46.9	1.0	-41.0	-13.0	-28.0		
3346.40	-6.1	V	3.0	46.6	1.0	-51.7	-13.0	-38.7		
1673.20	-12.4	H	3.0	46.4	1.0	-57.9	-13.0	-44.9		
2509.80	8.8	H	3.0	46.9	1.0	-37.1	-13.0	-24.1		
3346.40	-5.4	H	3.0	46.6	1.0	-51.0	-13.0	-38.0		
High Ch, 848.8MHz										
1697.60	-10.8	V	3.0	46.5	1.0	-56.3	-13.0	-43.3		
2546.40	5.8	V	3.0	46.9	1.0	-40.1	-13.0	-27.1		
3395.20	-7.8	V	3.0	46.5	1.0	-53.3	-13.0	-40.3		
1697.60	-10.8	H	3.0	46.5	1.0	-56.3	-13.0	-43.3		
2546.40	10.0	H	3.0	46.9	1.0	-35.9	-13.0	-22.9		
3395.20	-7.8	H	3.0	46.5	1.0	-53.3	-13.0	-40.3		
GPRS ANT A										

**WCDMA Band 5**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
REL99 ANT A+B	Company:	Samsung									
	Project #:	4790748041									
	Date:	2023-04-27									
	Test Engineer:	24542									
	Configuration:	EUT / AC Adapter, X-Position, HF									
	Location:	Chamber 1									
	Mode:	Rel99 Band 5 Harmonics									
	Test Voltage:	AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 826.4MHz										
	1652.80	-14.3	V	3.0	46.4	1.0	-59.7	-13.0	-46.7		
	2479.20	-4.9	V	3.0	46.9	1.0	-50.7	-13.0	-37.7		
	3305.60	-9.5	V	3.0	46.6	1.0	-55.1	-13.0	-42.1		
	1652.80	-15.5	H	3.0	46.4	1.0	-60.9	-13.0	-47.9		
	2479.20	-4.1	H	3.0	46.9	1.0	-50.0	-13.0	-37.0		
	3305.60	-9.3	H	3.0	46.6	1.0	-54.9	-13.0	-41.9		
	Mid Ch, 836.6MHz										
	1673.20	-14.2	V	3.0	46.4	1.0	-59.6	-13.0	-46.6		
	2509.80	-3.9	V	3.0	46.9	1.0	-49.8	-13.0	-36.8		
	3346.40	-9.3	V	3.0	46.6	1.0	-54.9	-13.0	-41.9		
	1673.20	-15.3	H	3.0	46.4	1.0	-60.8	-13.0	-47.8		
	2509.80	-1.4	H	3.0	46.9	1.0	-47.3	-13.0	-34.3		
	3346.40	-9.0	H	3.0	46.6	1.0	-54.6	-13.0	-41.6		
	High Ch, 846.6MHz										
	1693.20	-14.3	V	3.0	46.5	1.0	-59.8	-13.0	-46.8		
2539.80	-6.6	V	3.0	46.9	1.0	-52.5	-13.0	-39.5			
3386.40	-9.0	V	3.0	46.5	1.0	-54.5	-13.0	-41.5			
1693.20	-15.2	H	3.0	46.5	1.0	-60.6	-13.0	-47.6			
2539.80	-5.3	H	3.0	46.9	1.0	-51.2	-13.0	-38.2			
3386.40	-8.8	H	3.0	46.5	1.0	-54.3	-13.0	-41.3			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
REL99 ANT A	Company:	Samsung									
	Project #:	4790748041									
	Date:	2023-03-27									
	Test Engineer:	26087									
	Configuration:	EUT / Y-Position, FF									
	Location:	Chamber 1									
	Mode:	Rel99 Band 5 Harmonics									
	Test Voltage:	AC 120 V, 60 Hz									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 826.4MHz										
	1652.80	-14.4	V	3.0	46.4	1.0	-59.8	-13.0	-46.8		
	2479.20	-8.5	V	3.0	46.9	1.0	-54.4	-13.0	-41.4		
	3305.60	-9.4	V	3.0	46.6	1.0	-55.0	-13.0	-42.0		
	1652.80	-15.4	H	3.0	46.4	1.0	-60.9	-13.0	-47.9		
	2479.20	-8.0	H	3.0	46.9	1.0	-53.8	-13.0	-40.8		
	3305.60	-9.4	H	3.0	46.6	1.0	-55.1	-13.0	-42.1		
	Mid Ch, 836.6MHz										
	1673.20	-14.3	V	3.0	46.4	1.0	-59.7	-13.0	-46.7		
	2509.80	-6.0	V	3.0	46.9	1.0	-51.9	-13.0	-38.9		
	3346.40	-9.3	V	3.0	46.6	1.0	-54.8	-13.0	-41.8		
	1673.20	-15.4	H	3.0	46.4	1.0	-60.8	-13.0	-47.8		
	2509.80	-8.8	H	3.0	46.9	1.0	-54.7	-13.0	-41.7		
	3346.40	-9.1	H	3.0	46.6	1.0	-54.6	-13.0	-41.6		
	High Ch, 846.6MHz										
	1693.20	-13.6	V	3.0	46.5	1.0	-59.1	-13.0	-46.1		
2539.80	-5.1	V	3.0	46.9	1.0	-51.0	-13.0	-38.0			
3386.40	-8.9	V	3.0	46.5	1.0	-54.4	-13.0	-41.4			
1693.20	-15.3	H	3.0	46.5	1.0	-60.8	-13.0	-47.8			
2539.80	-7.2	H	3.0	46.9	1.0	-53.1	-13.0	-40.1			
3386.40	-8.9	H	3.0	46.5	1.0	-54.4	-13.0	-41.4			

**LTE Band 5B (UL CA)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790748041 Date: 2023-05-04 Test Engineer: 25770 Configuration: EUT / AC Adapter, X-Position, Open Location: Chamber 2 Mode: LTE_QPSK Band 5 Uplink CA Harmonics, 5MHz_3MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
5+3 MHz											
QPSK											
ANT A+B											
Low Ch, PCC : 826.5 MHz SCC : 830.4MHz											
1657.90	-15.2	V	3.0	40.7	1.0	-54.8	-13.0	-41.8			
2486.85	-12.4	V	3.0	41.3	1.0	-52.7	-13.0	-39.7			
3315.80	-9.3	V	3.0	42.1	1.0	-50.3	-13.0	-37.3			
1657.90	-15.9	H	3.0	40.7	1.0	-55.5	-13.0	-42.5			
2486.85	-12.5	H	3.0	41.3	1.0	-52.8	-13.0	-39.8			
3315.80	-9.4	H	3.0	42.1	1.0	-50.5	-13.0	-37.5			
Mid Ch, PCC : 835MHz SCC : 838.9MHz											
1674.90	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8			
2512.35	-9.5	V	3.0	41.3	1.0	-49.8	-13.0	-36.8			
3349.80	-9.5	V	3.0	42.1	1.0	-50.6	-13.0	-37.6			
1674.90	-15.7	H	3.0	40.7	1.0	-55.4	-13.0	-42.4			
2512.35	-1.3	H	3.0	41.3	1.0	-41.6	-13.0	-28.6			
3349.80	-9.7	H	3.0	42.1	1.0	-50.7	-13.0	-37.7			
High Ch, PCC : 843.6MHz SCC : 847.5MHz											
1692.10	-15.0	V	3.0	40.7	1.0	-54.7	-13.0	-41.7			
2538.15	-12.2	V	3.0	41.4	1.0	-52.6	-13.0	-39.6			
3384.20	-9.4	V	3.0	42.1	1.0	-50.5	-13.0	-37.5			
1692.10	-15.7	H	3.0	40.7	1.0	-55.4	-13.0	-42.4			
2538.15	-12.2	H	3.0	41.4	1.0	-52.6	-13.0	-39.6			
3384.20	-9.5	H	3.0	42.1	1.0	-50.5	-13.0	-37.5			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790748041 Date: 2023-05-11 Test Engineer: 25770 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 5 Uplink CA Harmonics, 5MHz_3MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
5+3 MHz											
QPSK											
ANT A											
Low Ch, PCC : 826.5 MHz SCC : 830.4MHz											
1657.90	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8			
2486.85	-12.3	V	3.0	41.3	1.0	-52.6	-13.0	-39.6			
3315.80	-9.8	V	3.0	42.1	1.0	-50.8	-13.0	-37.8			
1657.90	-15.8	H	3.0	40.7	1.0	-55.5	-13.0	-42.5			
2486.85	-12.6	H	3.0	41.3	1.0	-52.9	-13.0	-39.9			
3315.80	-10.0	H	3.0	42.1	1.0	-51.1	-13.0	-38.1			
Mid Ch, PCC : 835MHz SCC : 838.9MHz											
1674.90	-15.2	V	3.0	40.7	1.0	-54.8	-13.0	-41.8			
2512.35	-12.4	V	3.0	41.3	1.0	-52.7	-13.0	-39.7			
3349.80	-9.4	V	3.0	42.1	1.0	-50.5	-13.0	-37.5			
1674.90	-15.7	H	3.0	40.7	1.0	-55.4	-13.0	-42.4			
2512.35	-12.4	H	3.0	41.3	1.0	-52.7	-13.0	-39.7			
3349.80	-9.7	H	3.0	42.1	1.0	-50.8	-13.0	-37.8			
High Ch, PCC : 843.6MHz SCC : 847.5MHz											
1692.10	-15.0	V	3.0	40.7	1.0	-54.7	-13.0	-41.7			
2538.15	-12.1	V	3.0	41.4	1.0	-52.5	-13.0	-39.5			
3384.20	-9.3	V	3.0	42.1	1.0	-50.4	-13.0	-37.4			
1692.10	-15.6	H	3.0	40.7	1.0	-55.3	-13.0	-42.3			
2538.15	-12.3	H	3.0	41.4	1.0	-52.7	-13.0	-39.7			
3384.20	-9.5	H	3.0	42.1	1.0	-50.5	-13.0	-37.5			

**LTE Band 14**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790748041 Date: 2023-04-25 Test Engineer: 25770 Configuration: EUT / AC Adapter, X-Position, FF Location: Chamber 2 Mode: LTE_QPSK Band 14 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
5 MHz  QPSK  ANT A+B	Low Ch, 790.5MHz										
		1581.00	-27.4	V	3.0	40.7	1.0	-67.1	-13.0	-54.1	
		2371.50	-10.4	V	3.0	41.1	1.0	-50.5	-13.0	-37.5	
		3162.00	-9.9	V	3.0	42.0	1.0	-50.9	-13.0	-37.9	
		1581.00	-25.6	H	3.0	40.7	1.0	-65.3	-13.0	-52.3	
		2371.50	-7.9	H	3.0	41.1	1.0	-48.0	-13.0	-35.0	
		3162.00	-10.1	H	3.0	42.0	1.0	-51.1	-13.0	-38.1	
	Mid Ch, 793MHz										
		1586.00	-30.3	V	3.0	40.7	1.0	-70.0	-13.0	-57.0	
		2379.00	-11.0	V	3.0	41.2	1.0	-51.1	-13.0	-38.1	
		3172.00	-10.1	V	3.0	42.0	1.0	-51.1	-13.0	-38.1	
		1586.00	-31.0	H	3.0	40.7	1.0	-70.7	-13.0	-57.7	
		2379.00	-6.2	H	3.0	41.2	1.0	-46.4	-13.0	-33.4	
		3172.00	-10.1	H	3.0	42.0	1.0	-51.2	-13.0	-38.2	
	High Ch, 795.5MHz										
		1591.00	-27.9	V	3.0	40.7	1.0	-67.5	-13.0	-54.5	
		2386.50	-9.8	V	3.0	41.2	1.0	-49.9	-13.0	-36.9	
		3182.00	-9.9	V	3.0	42.0	1.0	-51.0	-13.0	-38.0	
		1591.00	-25.3	H	3.0	40.7	1.0	-65.0	-13.0	-52.0	
		2386.50	-8.3	H	3.0	41.2	1.0	-48.5	-13.0	-35.5	
		3182.00	-10.2	H	3.0	42.0	1.0	-51.3	-13.0	-38.3	
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790748041 Date: 2023-03-24 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 14 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
5 MHz  QPSK  ANT A	Low Ch, 790.5MHz										
		1581.00	-11.4	V	3.0	46.4	1.0	-56.8	-13.0	-43.8	
		2371.50	1.5	V	3.0	46.8	1.0	-44.3	-13.0	-31.3	
		3162.00	-9.7	V	3.0	46.8	1.0	-55.5	-13.0	-42.5	
		1581.00	-11.6	H	3.0	46.4	1.0	-57.0	-13.0	-44.0	
		2371.50	3.5	H	3.0	46.8	1.0	-42.4	-13.0	-29.4	
		3162.00	-9.7	H	3.0	46.8	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 793MHz										
		1586.00	-12.4	V	3.0	46.4	1.0	-57.8	-13.0	-44.8	
		2379.00	-2.2	V	3.0	46.9	1.0	-48.1	-13.0	-35.1	
		3172.00	-9.7	V	3.0	46.8	1.0	-55.5	-13.0	-42.5	
		1586.00	-11.5	H	3.0	46.4	1.0	-56.8	-13.0	-43.8	
		2379.00	1.6	H	3.0	46.9	1.0	-44.2	-13.0	-31.2	
		3172.00	-9.6	H	3.0	46.8	1.0	-55.4	-13.0	-42.4	
	High Ch, 795.5MHz										
		1591.00	-12.6	V	3.0	46.4	1.0	-58.0	-13.0	-45.0	
		2386.50	-0.5	V	3.0	46.9	1.0	-46.4	-13.0	-33.4	
		3182.00	-9.8	V	3.0	46.8	1.0	-55.6	-13.0	-42.6	
		1591.00	-12.3	H	3.0	46.4	1.0	-57.7	-13.0	-44.7	
		2386.50	1.8	H	3.0	46.9	1.0	-44.0	-13.0	-31.0	
		3182.00	-9.7	H	3.0	46.8	1.0	-55.4	-13.0	-42.4	

**LTE Band 26 (Part 90)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
3 MHz QPSK ANT A+B	<p><b>Company:</b> Samsung  <b>Project #:</b> 4790748041  <b>Date:</b> 2023-05-03  <b>Test Engineer:</b> 25770  <b>Configuration:</b> EUT / AC Adapter, Y-Position, HF  <b>Location:</b> Chamber 2  <b>Mode:</b> LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth  <b>Test Voltage:</b> AC 120 V, 60 Hz</p>										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	<b>Low Ch, 815.5MHz</b>										
	1631.00	-15.2	V	3.0	40.7	1.0	-54.8	-13.0	-41.8		
	2446.50	-11.6	V	3.0	41.3	1.0	-51.9	-13.0	-38.9		
	3262.00	-10.0	V	3.0	42.1	1.0	-51.0	-13.0	-38.0		
	1631.00	-15.9	H	3.0	40.7	1.0	-55.5	-13.0	-42.5		
	2446.50	-10.9	H	3.0	41.3	1.0	-51.1	-13.0	-38.1		
	3262.00	-10.2	H	3.0	42.1	1.0	-51.3	-13.0	-38.3		
	<b>Mid Ch, 822.5MHz</b>										
	1645.00	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8		
	2467.50	-11.7	V	3.0	41.3	1.0	-52.0	-13.0	-39.0		
	3290.00	-9.9	V	3.0	42.1	1.0	-50.9	-13.0	-37.9		
	1645.00	-15.7	H	3.0	40.7	1.0	-55.4	-13.0	-42.4		
	2467.50	-11.2	H	3.0	41.3	1.0	-51.4	-13.0	-38.4		
	3290.00	-10.1	H	3.0	42.1	1.0	-51.1	-13.0	-38.1		
	1.4 MHz QPSK ANT A	<p><b>Company:</b> Samsung  <b>Project #:</b> 4790748041  <b>Date:</b> 2023-03-28  <b>Test Engineer:</b> 26087  <b>Configuration:</b> EUT / Z-Position, FF  <b>Location:</b> Chamber 1  <b>Mode:</b> LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth  <b>Test Voltage:</b> AC 120 V, 60 Hz</p>									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		<b>Low Ch, 814.7MHz</b>									
		1629.40	-14.6	V	3.0	46.4	1.0	-60.0	-13.0	-47.0	
2444.10		-1.5	V	3.0	46.9	1.0	-47.4	-13.0	-34.4		
3258.80		-9.5	V	3.0	46.7	1.0	-55.2	-13.0	-42.2		
1629.40		-15.6	H	3.0	46.4	1.0	-61.0	-13.0	-48.0		
2444.10		-3.9	H	3.0	46.9	1.0	-49.7	-13.0	-36.7		
3258.80		-9.3	H	3.0	46.7	1.0	-55.0	-13.0	-42.0		
<b>Mid Ch, 823.3MHz</b>											
1646.60		-14.5	V	3.0	46.4	1.0	-59.9	-13.0	-46.9		
2469.90		-0.6	V	3.0	46.9	1.0	-46.5	-13.0	-33.5		
3293.20		-9.5	V	3.0	46.6	1.0	-55.1	-13.0	-42.1		
1646.60		-16.3	H	3.0	46.4	1.0	-61.7	-13.0	-48.7		
2469.90		-2.3	H	3.0	46.9	1.0	-48.2	-13.0	-35.2		
3293.20		-9.3	H	3.0	46.6	1.0	-55.0	-13.0	-42.0		



**LTE Band 26 (Straddle)**

3 MHz QPSK ANT A+B	<p style="text-align: center;"><b>UL Verification Services, Inc.</b> Above 1GHz High Frequency Substitution Measurement</p> <p><b>Company:</b> Samsung  <b>Project #:</b> 4790748041  <b>Date:</b> 2023-05-03  <b>Test Engineer:</b> 25770  <b>Configuration:</b> EUT / AC Adapter, Y-Position, HF  <b>Location:</b> Chamber 2  <b>Mode:</b> LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth  <b>Test Votage:</b> AC 120 V, 60 Hz</p> <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Straddle Ch, 824MHz</td> </tr> <tr> <td>1648.00</td> <td>-15.0</td> <td>V</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-54.6</td> <td>-13.0</td> <td>-41.6</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-11.9</td> <td>V</td> <td>3.0</td> <td>41.3</td> <td>1.0</td> <td>-52.2</td> <td>-13.0</td> <td>-39.2</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-12.3</td> <td>V</td> <td>3.0</td> <td>42.1</td> <td>1.0</td> <td>-53.4</td> <td>-13.0</td> <td>-40.4</td> <td></td> </tr> <tr> <td>1648.00</td> <td>-15.8</td> <td>H</td> <td>3.0</td> <td>40.7</td> <td>1.0</td> <td>-55.5</td> <td>-13.0</td> <td>-42.5</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-11.6</td> <td>H</td> <td>3.0</td> <td>41.3</td> <td>1.0</td> <td>-51.9</td> <td>-13.0</td> <td>-38.9</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-12.6</td> <td>H</td> <td>3.0</td> <td>42.1</td> <td>1.0</td> <td>-53.6</td> <td>-13.0</td> <td>-40.6</td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Straddle Ch, 824MHz										1648.00	-15.0	V	3.0	40.7	1.0	-54.6	-13.0	-41.6		2472.00	-11.9	V	3.0	41.3	1.0	-52.2	-13.0	-39.2		3296.00	-12.3	V	3.0	42.1	1.0	-53.4	-13.0	-40.4		1648.00	-15.8	H	3.0	40.7	1.0	-55.5	-13.0	-42.5		2472.00	-11.6	H	3.0	41.3	1.0	-51.9	-13.0	-38.9		3296.00	-12.6	H	3.0	42.1	1.0	-53.6	-13.0	-40.6	
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5 MHz QPSK ANT A	<p style="text-align: center;"><b>UL Verification Services, Inc.</b> Above 1GHz High Frequency Substitution Measurement</p> <p><b>Company:</b> Samsung  <b>Project #:</b> 4790748041  <b>Date:</b> 2023-03-28  <b>Test Engineer:</b> 26087  <b>Configuration:</b> EUT / Z-Position, FF  <b>Location:</b> Chamber 1  <b>Mode:</b> LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth  <b>Test Votage:</b> AC 120 V, 60 Hz</p> <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Straddle Ch, 824MHz</td> </tr> <tr> <td>1648.00</td> <td>-14.4</td> <td>V</td> <td>3.0</td> <td>46.4</td> <td>1.0</td> <td>-59.8</td> <td>-13.0</td> <td>-46.8</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-1.4</td> <td>V</td> <td>3.0</td> <td>46.9</td> <td>1.0</td> <td>-47.3</td> <td>-13.0</td> <td>-34.3</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.6</td> <td>V</td> <td>3.0</td> <td>46.6</td> <td>1.0</td> <td>-55.2</td> <td>-13.0</td> <td>-42.2</td> <td></td> </tr> <tr> <td>1648.00</td> <td>-15.6</td> <td>H</td> <td>3.0</td> <td>46.4</td> <td>1.0</td> <td>-61.0</td> <td>-13.0</td> <td>-48.0</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-2.5</td> <td>H</td> <td>3.0</td> <td>46.9</td> <td>1.0</td> <td>-48.3</td> <td>-13.0</td> <td>-35.3</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.4</td> <td>H</td> <td>3.0</td> <td>46.6</td> <td>1.0</td> <td>-55.0</td> <td>-13.0</td> <td>-42.0</td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Straddle Ch, 824MHz										1648.00	-14.4	V	3.0	46.4	1.0	-59.8	-13.0	-46.8		2472.00	-1.4	V	3.0	46.9	1.0	-47.3	-13.0	-34.3		3296.00	-9.6	V	3.0	46.6	1.0	-55.2	-13.0	-42.2		1648.00	-15.6	H	3.0	46.4	1.0	-61.0	-13.0	-48.0		2472.00	-2.5	H	3.0	46.9	1.0	-48.3	-13.0	-35.3		3296.00	-9.4	H	3.0	46.6	1.0	-55.0	-13.0	-42.0	
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3296.00	-9.4	H	3.0	46.6	1.0	-55.0	-13.0	-42.0																																																																																		

**LTE Band 26 (Part 22)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790748041 Date: 2023-05-03 Test Engineer: 25770 Configuration: EUT / Adapter, Y-Position, HF Location: Chamber 2 Mode: LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
3 MHz  QPSK  ANT A+B	Low Ch, 815.5MHz										
		1631.00	-15.2	V	3.0	40.7	1.0	-54.9	-13.0	-41.9	
		2446.50	-12.2	V	3.0	41.3	1.0	-52.5	-13.0	-39.5	
		3262.00	-10.0	V	3.0	42.1	1.0	-51.0	-13.0	-38.0	
		1631.00	-16.0	H	3.0	40.7	1.0	-55.6	-13.0	-42.6	
		2446.50	-12.0	H	3.0	41.3	1.0	-52.2	-13.0	-39.2	
		3262.00	-10.2	H	3.0	42.1	1.0	-51.2	-13.0	-38.2	
	Mid Ch, 831.5MHz										
		1663.00	-15.0	V	3.0	40.7	1.0	-54.7	-13.0	-41.7	
		2494.50	-7.7	V	3.0	41.3	1.0	-48.0	-13.0	-35.0	
		3326.00	-9.8	V	3.0	42.1	1.0	-50.8	-13.0	-37.8	
		1663.00	-15.8	H	3.0	40.7	1.0	-55.5	-13.0	-42.5	
		2494.50	-8.7	H	3.0	41.3	1.0	-49.0	-13.0	-36.0	
		3326.00	-9.9	H	3.0	42.1	1.0	-50.9	-13.0	-37.9	
	High Ch, 847.5MHz										
		1695.00	-15.0	V	3.0	40.7	1.0	-54.6	-13.0	-41.6	
		2542.50	-11.5	V	3.0	41.4	1.0	-51.9	-13.0	-38.9	
		3390.00	-9.2	V	3.0	42.1	1.0	-50.3	-13.0	-37.3	
		1695.00	-15.5	H	3.0	40.7	1.0	-55.2	-13.0	-42.2	
		2542.50	-11.1	H	3.0	41.4	1.0	-51.5	-13.0	-38.5	
		3390.00	-9.4	H	3.0	42.1	1.0	-50.5	-13.0	-37.5	
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4790748041 Date: 2023-03-28 Test Engineer: 26087 Configuration: EUT / Z-Position, FF Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
10 MHz  QPSK  ANT A	Low Ch, 829MHz										
		1658.00	-14.4	V	3.0	46.4	1.0	-59.8	-13.0	-46.8	
		2487.00	-0.3	V	3.0	46.9	1.0	-46.2	-13.0	-33.2	
		3316.00	-9.4	V	3.0	46.6	1.0	-55.0	-13.0	-42.0	
		1658.00	-15.3	H	3.0	46.4	1.0	-60.8	-13.0	-47.8	
		2487.00	0.0	H	3.0	46.9	1.0	-45.9	-13.0	-32.9	
		3316.00	-9.1	H	3.0	46.6	1.0	-54.7	-13.0	-41.7	
	Mid Ch, 831.5MHz										
		1663.00	-14.4	V	3.0	46.4	1.0	-59.8	-13.0	-46.8	
		2494.50	1.8	V	3.0	46.9	1.0	-44.0	-13.0	-31.0	
		3326.00	-9.4	V	3.0	46.6	1.0	-55.0	-13.0	-42.0	
		1663.00	-15.4	H	3.0	46.4	1.0	-60.9	-13.0	-47.9	
		2494.50	1.9	H	3.0	46.9	1.0	-44.0	-13.0	-31.0	
		3326.00	-9.1	H	3.0	46.6	1.0	-54.7	-13.0	-41.7	
	High Ch, 844MHz										
		1688.00	-14.3	V	3.0	46.5	1.0	-59.7	-13.0	-46.7	
		2532.00	0.6	V	3.0	46.9	1.0	-45.3	-13.0	-32.3	
		3376.00	-9.2	V	3.0	46.5	1.0	-54.7	-13.0	-41.7	
		1688.00	-15.3	H	3.0	46.5	1.0	-60.8	-13.0	-47.8	
		2532.00	2.7	H	3.0	46.9	1.0	-43.2	-13.0	-30.2	
		3376.00	-8.8	H	3.0	46.5	1.0	-54.3	-13.0	-41.3	

**NR Band n26 (Part 90) (ANT A+B)**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
5 MHz DFT-OFDM QPSK ANT A+B	Company: Samsung Project #: 4790748041 Date: 2023-05-01 Test Engineer: 24542 Configuration: EUT / AC Adapter, Y-Position, HF Location: Chamber 1 Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch, 816.5MHz										
	1633.00	-12.4	V	3.0	46.4	1.0	-57.8	-13.0	-44.8		
	2449.50	-0.6	V	3.0	46.9	1.0	-46.5	-13.0	-33.5		
	3266.00	-9.4	V	3.0	46.7	1.0	-55.1	-13.0	-42.1		
	1633.00	-13.9	H	3.0	46.4	1.0	-59.3	-13.0	-46.3		
	2449.50	-3.7	H	3.0	46.9	1.0	-49.6	-13.0	-36.6		
	3266.00	-9.2	H	3.0	46.7	1.0	-54.9	-13.0	-41.9		
	Mid Ch, 821.5MHz										
	1643.00	-13.7	V	3.0	46.4	1.0	-59.1	-13.0	-46.1		
	2464.50	-3.6	V	3.0	46.9	1.0	-49.4	-13.0	-36.4		
	3286.00	-9.5	V	3.0	46.6	1.0	-55.1	-13.0	-42.1		
	1643.00	-14.2	H	3.0	46.4	1.0	-59.7	-13.0	-46.7		
	2464.50	-2.4	H	3.0	46.9	1.0	-48.3	-13.0	-35.3		
	3286.00	-9.3	H	3.0	46.6	1.0	-55.0	-13.0	-42.0		
	5 MHz DFT-OFDM QPSK ANT A	Company: Samsung Project #: 4790748041 Date: 2023-05-26 Test Engineer: 24542 Configuration: EUT / AC Adapter, Z-Position, FF Location: Chamber 2 Mode: 5G NR_QPSK NR n26 Harmonics, 5MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 816.5MHz									
		1633.00	-14.8	V	3.0	40.7	1.0	-54.5	-13.0	-41.5	
2449.50		-11.7	V	3.0	41.3	1.0	-52.0	-13.0	-39.0		
3266.00		-10.1	V	3.0	42.1	1.0	-51.1	-13.0	-38.1		
1633.00		-15.3	H	3.0	40.7	1.0	-55.0	-13.0	-42.0		
2449.50		-12.0	H	3.0	41.3	1.0	-52.3	-13.0	-39.3		
3266.00		-10.3	H	3.0	42.1	1.0	-51.3	-13.0	-38.3		
Mid Ch, 821.5MHz											
1643.00		-14.6	V	3.0	40.7	1.0	-54.3	-13.0	-41.3		
2464.50		-11.7	V	3.0	41.3	1.0	-52.0	-13.0	-39.0		
3286.00		-10.0	V	3.0	42.1	1.0	-51.1	-13.0	-38.1		
1643.00		-15.4	H	3.0	40.7	1.0	-55.1	-13.0	-42.1		
2464.50		-11.9	H	3.0	41.3	1.0	-52.2	-13.0	-39.2		
3286.00		-10.2	H	3.0	42.1	1.0	-51.3	-13.0	-38.3		

**NR Band n26 (Straddle)**

5 MHz DFT-OFDM QPSK ANT A+B	<p style="text-align: center;"><b>UL Verification Services, Inc.</b>  <b>Above 1GHz High Frequency Substitution Measurement</b></p> <p><b>Company:</b> Samsung  <b>Project #:</b> 4790748041  <b>Date:</b> 2023-05-01  <b>Test Engineer:</b> 24542  <b>Configuration:</b> EUT / AC Adapter, Y-Position, HF  <b>Location:</b> Chamber 1  <b>Mode:</b> 5G NR_QPSK NR n26 Harmonics, 5MHz Bandwidth  <b>Test Votage:</b> AC 120 V, 60 Hz</p> <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10"><b>Straddle Ch, 824MHz</b></td> </tr> <tr> <td>1648.00</td> <td>-11.9</td> <td>V</td> <td>3.0</td> <td>46.4</td> <td>1.0</td> <td>-57.4</td> <td>-13.0</td> <td>-44.4</td> <td></td> </tr> <tr> <td>2472.00</td> <td>1.1</td> <td>V</td> <td>3.0</td> <td>46.9</td> <td>1.0</td> <td>-44.8</td> <td>-13.0</td> <td>-31.8</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.5</td> <td>V</td> <td>3.0</td> <td>46.6</td> <td>1.0</td> <td>-55.1</td> <td>-13.0</td> <td>-42.1</td> <td></td> </tr> <tr> <td>1648.00</td> <td>-14.1</td> <td>H</td> <td>3.0</td> <td>46.4</td> <td>1.0</td> <td>-59.5</td> <td>-13.0</td> <td>-46.5</td> <td></td> </tr> <tr> <td>2472.00</td> <td>2.5</td> <td>H</td> <td>3.0</td> <td>46.9</td> <td>1.0</td> <td>-43.4</td> <td>-13.0</td> <td>-30.4</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.1</td> <td>H</td> <td>3.0</td> <td>46.6</td> <td>1.0</td> <td>-54.7</td> <td>-13.0</td> <td>-41.7</td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	<b>Straddle Ch, 824MHz</b>										1648.00	-11.9	V	3.0	46.4	1.0	-57.4	-13.0	-44.4		2472.00	1.1	V	3.0	46.9	1.0	-44.8	-13.0	-31.8		3296.00	-9.5	V	3.0	46.6	1.0	-55.1	-13.0	-42.1		1648.00	-14.1	H	3.0	46.4	1.0	-59.5	-13.0	-46.5		2472.00	2.5	H	3.0	46.9	1.0	-43.4	-13.0	-30.4		3296.00	-9.1	H	3.0	46.6	1.0	-54.7	-13.0	-41.7	
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20 MHz DFT-OFDM QPSK ANT A	<p style="text-align: center;"><b>UL Verification Services, Inc.</b>  <b>Above 1GHz High Frequency Substitution Measurement</b></p> <p><b>Company:</b> Samsung  <b>Project #:</b> 4790748041  <b>Date:</b> 2023-04-13  <b>Test Engineer:</b> 19568  <b>Configuration:</b> EUT / AC Adapter, Z-Position, FF  <b>Location:</b> Chamber 1  <b>Mode:</b> 5G NR_QPSK NR n26 Harmonics, 20MHz Bandwidth  <b>Test Votage:</b> AC 120 V, 60 Hz</p> <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10"><b>Low Ch, 824MHz</b></td> </tr> <tr> <td>1648.00</td> <td>-14.5</td> <td>V</td> <td>3.0</td> <td>46.4</td> <td>1.0</td> <td>-59.9</td> <td>-13.0</td> <td>-46.9</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-10.2</td> <td>V</td> <td>3.0</td> <td>46.9</td> <td>1.0</td> <td>-56.1</td> <td>-13.0</td> <td>-43.1</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-7.4</td> <td>V</td> <td>3.0</td> <td>46.6</td> <td>1.0</td> <td>-53.0</td> <td>-13.0</td> <td>-40.0</td> <td></td> </tr> <tr> <td>1648.00</td> <td>-15.5</td> <td>H</td> <td>3.0</td> <td>46.4</td> <td>1.0</td> <td>-60.9</td> <td>-13.0</td> <td>-47.9</td> <td></td> </tr> <tr> <td>2472.00</td> <td>-9.3</td> <td>H</td> <td>3.0</td> <td>46.9</td> <td>1.0</td> <td>-55.2</td> <td>-13.0</td> <td>-42.2</td> <td></td> </tr> <tr> <td>3296.00</td> <td>-9.4</td> <td>H</td> <td>3.0</td> <td>46.6</td> <td>1.0</td> <td>-55.1</td> <td>-13.0</td> <td>-42.1</td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	<b>Low Ch, 824MHz</b>										1648.00	-14.5	V	3.0	46.4	1.0	-59.9	-13.0	-46.9		2472.00	-10.2	V	3.0	46.9	1.0	-56.1	-13.0	-43.1		3296.00	-7.4	V	3.0	46.6	1.0	-53.0	-13.0	-40.0		1648.00	-15.5	H	3.0	46.4	1.0	-60.9	-13.0	-47.9		2472.00	-9.3	H	3.0	46.9	1.0	-55.2	-13.0	-42.2		3296.00	-9.4	H	3.0	46.6	1.0	-55.1	-13.0	-42.1	
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3296.00	-9.4	H	3.0	46.6	1.0	-55.1	-13.0	-42.1																																																																																		

**NR Band n26 (Part 22)**

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		<b>Company:</b>	Samsung								
		<b>Project #:</b>	4790748041								
		<b>Date:</b>	2023-05-03								
		<b>Test Engineer:</b>	24542								
		<b>Configuration:</b>	EUT / AC Adapter, Y-Position, HF								
		<b>Location:</b>	Chamber 1								
		<b>Mode:</b>	5G NR_QPSK NR n26 Harmonics, 15MHz Bandwidth								
		<b>Test Voltage:</b>	AC 120 V, 60 Hz								
15 MHz DFT-OFDM QPSK ANT A+B	<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Distance</b>	<b>Preamp</b>	<b>Filter</b>	<b>EIRP</b>	<b>Limit</b>	<b>Delta</b>	<b>Notes</b>	
	MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)		
	<b>Mid Ch, 831.5MHz</b>										
	1663.00	-13.8	V	3.0	46.4	1.0	-59.2	-13.0	-46.2		
	2494.50	1.0	V	3.0	46.9	1.0	-44.9	-13.0	-31.9		
	3326.00	-9.2	V	3.0	46.6	1.0	-54.8	-13.0	-41.8		
	1663.00	-13.9	H	3.0	46.4	1.0	-59.3	-13.0	-46.3		
	2494.50	-0.3	H	3.0	46.9	1.0	-46.1	-13.0	-33.1		
	3326.00	-9.1	H	3.0	46.6	1.0	-54.7	-13.0	-41.7		
	<b>High Ch, 841.5MHz</b>										
	1683.00	-13.1	V	3.0	46.5	1.0	-58.6	-13.0	-45.6		
	2524.50	2.4	V	3.0	46.9	1.0	-43.5	-13.0	-30.5		
	3366.00	-8.9	V	3.0	46.5	1.0	-54.4	-13.0	-41.4		
	1683.00	-12.9	H	3.0	46.5	1.0	-58.3	-13.0	-45.3		
	2524.50	2.3	H	3.0	46.9	1.0	-43.6	-13.0	-30.6		
	3366.00	-8.7	H	3.0	46.5	1.0	-54.2	-13.0	-41.2		
	<b>UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement</b>										
			<b>Company:</b>	Samsung							
			<b>Project #:</b>	4790748041							
			<b>Date:</b>	2023-04-12							
		<b>Test Engineer:</b>	25770								
		<b>Configuration:</b>	EUT / AC Adapter, Z-Position, FF								
		<b>Location:</b>	Chamber 1								
		<b>Mode:</b>	5G NR_QPSK NR n26 Harmonics, 10MHz Bandwidth								
		<b>Test Voltage:</b>	AC 120 V, 60 Hz								
10 MHz DFT-OFDM QPSK ANT A	<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Distance</b>	<b>Preamp</b>	<b>Filter</b>	<b>EIRP</b>	<b>Limit</b>	<b>Delta</b>	<b>Notes</b>	
	MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)		
	<b>Low Ch, 829MHz</b>										
	1658.00	-11.1	V	3.0	46.4	1.0	-56.6	-13.0	-43.6		
	2487.00	-0.7	V	3.0	46.9	1.0	-46.5	-13.0	-33.5		
	3316.00	-9.3	V	3.0	46.6	1.0	-54.9	-13.0	-41.9		
	1658.00	-13.4	H	3.0	46.4	1.0	-58.8	-13.0	-45.8		
	2487.00	-1.6	H	3.0	46.9	1.0	-47.5	-13.0	-34.5		
	3316.00	-9.2	H	3.0	46.6	1.0	-54.8	-13.0	-41.8		
	<b>Mid Ch, 831.5MHz</b>										
	1663.00	-13.9	V	3.0	46.4	1.0	-59.4	-13.0	-46.4		
	2494.50	-6.4	V	3.0	46.9	1.0	-52.3	-13.0	-39.3		
	3326.00	-9.4	V	3.0	46.6	1.0	-55.0	-13.0	-42.0		
	1663.00	-15.1	H	3.0	46.4	1.0	-60.5	-13.0	-47.5		
	2494.50	-4.9	H	3.0	46.9	1.0	-50.7	-13.0	-37.7		
	3326.00	-9.2	H	3.0	46.6	1.0	-54.8	-13.0	-41.8		
	<b>High Ch, 844MHz</b>										
	1688.00	-11.5	V	3.0	46.5	1.0	-57.0	-13.0	-44.0		
	2532.00	2.6	V	3.0	46.9	1.0	-43.3	-13.0	-30.3		
	3376.00	-9.1	V	3.0	46.5	1.0	-54.6	-13.0	-41.6		
1688.00	-13.8	H	3.0	46.5	1.0	-59.2	-13.0	-46.2			
2532.00	1.9	H	3.0	46.9	1.0	-44.0	-13.0	-31.0			
3376.00	-8.9	H	3.0	46.5	1.0	-54.4	-13.0	-41.4			

**END OF REPORT**