

LTE Band 66

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791083081 Date: 2024-01-03 Test Engineer: 28775 Configuration: EUT / AC Adapter, Z-Position Location: Chamber 1 Mode: LTE_QPSK Band 66 Harmonics, 20MHz Bandwidth Test Voltage: AC 120 V, 60 Hz									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
20 MHz	QPSK	Low Ch, 1720MHz									
		3440.00	-3.4	V	3.0	44.0	1.0	-46.4	-13.0	-33.4	
		5160.00	-4.7	V	3.0	44.8	1.0	-48.5	-13.0	-35.5	
		6880.00	-4.1	V	3.0	45.1	1.0	-48.2	-13.0	-35.2	
		3440.00	-0.5	H	3.0	44.0	1.0	-43.5	-13.0	-30.5	
		5160.00	-2.7	H	3.0	44.8	1.0	-46.5	-13.0	-33.5	
		6880.00	-3.9	H	3.0	45.1	1.0	-48.0	-13.0	-35.0	
		Mid Ch, 1745MHz									
		3490.00	-2.9	V	3.0	44.0	1.0	-45.9	-13.0	-32.9	
		5235.00	-5.1	V	3.0	44.8	1.0	-48.9	-13.0	-35.9	
		6980.00	-4.0	V	3.0	45.1	1.0	-48.2	-13.0	-35.2	
		3490.00	-0.4	H	3.0	44.0	1.0	-43.4	-13.0	-30.4	
		5235.00	-3.3	H	3.0	44.8	1.0	-47.1	-13.0	-34.1	
		6980.00	-4.0	H	3.0	45.1	1.0	-48.1	-13.0	-35.1	
		High Ch, 1770MHz									
		3540.00	-2.0	V	3.0	44.0	1.0	-45.1	-13.0	-32.1	
		5310.00	-4.8	V	3.0	44.9	1.0	-48.7	-13.0	-35.7	
		7080.00	-3.7	V	3.0	45.1	1.0	-47.8	-13.0	-34.8	
		3540.00	-0.2	H	3.0	44.0	1.0	-43.2	-13.0	-30.2	
		5310.00	-2.9	H	3.0	44.9	1.0	-46.7	-13.0	-33.7	
7080.00	-3.7	H	3.0	45.1	1.0	-47.8	-13.0	-34.8			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
		Company: Samsung Project #: 4791083081 Date: 2024-01-04 Test Engineer: 26460 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: LTE_QPSK Band 66 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)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
3 MHz	QPSK	Low Ch, 1711.5MHz									
		3423.00	-8.7	V	3.0	44.0	1.0	-51.7	-13.0	-38.7	
		5134.50	-6.1	V	3.0	44.8	1.0	-49.9	-13.0	-36.9	
		6846.00	-4.2	V	3.0	45.1	1.0	-48.4	-13.0	-35.4	
		3423.00	-8.4	H	3.0	44.0	1.0	-51.3	-13.0	-38.3	
		5134.50	-5.1	H	3.0	44.8	1.0	-48.9	-13.0	-35.9	
		6846.00	-4.1	H	3.0	45.1	1.0	-48.3	-13.0	-35.3	
		Mid Ch, 1745MHz									
		3490.00	-8.4	V	3.0	44.0	1.0	-51.4	-13.0	-38.4	
		5235.00	-4.5	V	3.0	44.8	1.0	-48.4	-13.0	-35.4	
		6980.00	-4.2	V	3.0	45.1	1.0	-48.3	-13.0	-35.3	
		3490.00	-8.2	H	3.0	44.0	1.0	-51.2	-13.0	-38.2	
		5235.00	-4.1	H	3.0	44.8	1.0	-48.0	-13.0	-35.0	
		6980.00	-4.1	H	3.0	45.1	1.0	-48.3	-13.0	-35.3	
		High Ch, 1778.5MHz									
		3557.00	-7.9	V	3.0	44.0	1.0	-51.0	-13.0	-38.0	
		5335.50	-5.2	V	3.0	44.9	1.0	-49.1	-13.0	-36.1	
		7114.00	-3.8	V	3.0	45.1	1.0	-47.9	-13.0	-34.9	
		3557.00	-7.7	H	3.0	44.0	1.0	-50.7	-13.0	-37.7	
		5335.50	-3.9	H	3.0	44.9	1.0	-47.8	-13.0	-34.8	
7114.00	-3.7	H	3.0	45.1	1.0	-47.8	-13.0	-34.8			
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									

NR Band n41

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement							
		Company: Samsung Project #: 4791976081 Date: 2024-01-16 Test Engineer: 28775 Configuration: EUT / AC Adapter, Y-Position Location: Chamber 1 Mode: 5G NR_QPSK NR n41 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									
Antenna B Main 2									
Low Ch, 2501.01MHz									
5002.02	-11.0	V	3.0	44.8	1.0	-54.7	-25.0	-29.7	
7503.03	-10.6	V	3.0	45.0	1.0	-54.5	-25.0	-29.5	
10004.04	-7.3	V	3.0	43.6	1.0	-50.0	-25.0	-25.0	
5002.02	-5.9	H	3.0	44.8	1.0	-49.7	-25.0	-24.7	
7503.03	-11.5	H	3.0	45.0	1.0	-55.5	-25.0	-30.5	
10004.04	-7.6	H	3.0	43.6	1.0	-50.2	-25.0	-25.2	
Mid Ch, 2592.99MHz									
5185.98	0.5	V	3.0	44.8	1.0	-43.3	-25.0	-18.3	
7778.97	-6.4	V	3.0	44.8	1.0	-50.2	-25.0	-25.2	
10371.96	-9.7	V	3.0	43.5	1.0	-52.2	-25.0	-27.2	
5185.98	5.8	H	3.0	44.8	1.0	-38.0	-25.0	-13.0	
7778.97	-9.9	H	3.0	44.8	1.0	-53.7	-25.0	-28.7	
10371.96	-10.3	H	3.0	43.5	1.0	-52.9	-25.0	-27.9	
High Ch, 2685MHz									
5370.00	-5.6	V	3.0	44.9	1.0	-49.5	-25.0	-24.5	
8055.00	-6.9	V	3.0	44.7	1.0	-50.6	-25.0	-25.6	
10740.00	-10.2	V	3.0	43.5	1.0	-52.7	-25.0	-27.7	
5370.00	-0.1	H	3.0	44.9	1.0	-44.0	-25.0	-19.0	
8055.00	-9.1	H	3.0	44.7	1.0	-52.8	-25.0	-27.8	
10740.00	-9.4	H	3.0	43.5	1.0	-51.9	-25.0	-26.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4791083081							
Date:		2024-01-05							
Test Engineer:		26460							
Configuration:		EUT / AC Adapter, Z-Position							
Location:		Chamber 1							
Mode:		5G NR_QPSK NR n41 Harmonics, 90MHz 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, 2541MHz									
5082.00	-8.7	V	3.0	44.8	1.0	-52.5	-25.0	-27.5	
7623.00	-11.1	V	3.0	44.9	1.0	-55.0	-25.0	-30.0	
10164.00	-6.3	V	3.0	43.6	1.0	-48.9	-25.0	-23.9	
12705.00	-4.1	V	3.0	43.6	1.0	-46.7	-25.0	-21.7	
15246.00	-4.0	V	3.0	44.8	1.0	-47.8	-25.0	-22.8	
5082.00	-6.0	H	3.0	44.8	1.0	-49.8	-25.0	-24.8	
7623.00	-8.3	H	3.0	44.9	1.0	-52.2	-25.0	-27.2	
10164.00	-2.0	H	3.0	43.6	1.0	-44.5	-25.0	-19.5	
12705.00	0.7	H	3.0	43.6	1.0	-41.8	-25.0	-16.8	
15246.00	2.1	H	3.0	44.8	1.0	-41.6	-25.0	-16.6	
Mid Ch, 2592.99MHz									
5185.98	-9.4	V	3.0	44.8	1.0	-53.2	-25.0	-28.2	
7778.97	-11.0	V	3.0	44.8	1.0	-54.9	-25.0	-29.9	
10371.96	-10.3	V	3.0	43.5	1.0	-52.8	-25.0	-27.8	
12964.95	-8.5	V	3.0	43.7	1.0	-51.2	-25.0	-26.2	
15557.94	-4.8	V	3.0	44.7	1.0	-48.5	-25.0	-23.5	
5185.98	-5.6	H	3.0	44.8	1.0	-49.4	-25.0	-24.4	
7778.97	-9.2	H	3.0	44.8	1.0	-53.0	-25.0	-28.0	
10371.96	-8.9	H	3.0	43.5	1.0	-51.4	-25.0	-26.4	
12964.95	-7.6	H	3.0	43.7	1.0	-50.3	-25.0	-25.3	
15557.94	-2.9	H	3.0	44.7	1.0	-46.5	-25.0	-21.5	
High Ch, 2644.98MHz									
5289.96	-13.8	V	3.0	44.9	1.0	-57.7	-25.0	-32.7	
7934.94	-8.4	V	3.0	44.8	1.0	-52.2	-25.0	-27.2	
10579.92	-7.7	V	3.0	43.5	1.0	-50.2	-25.0	-25.2	
13224.90	-8.5	V	3.0	43.9	1.0	-51.3	-25.0	-26.3	
15869.88	-5.3	V	3.0	44.6	1.0	-48.9	-25.0	-23.9	
5289.96	-13.0	H	3.0	44.9	1.0	-56.8	-25.0	-31.8	
7934.94	-6.4	H	3.0	44.8	1.0	-50.2	-25.0	-25.2	
10579.92	-6.6	H	3.0	43.5	1.0	-49.1	-25.0	-24.1	
13224.90	-8.2	H	3.0	43.9	1.0	-51.1	-25.0	-26.1	
15869.88	-5.2	H	3.0	44.6	1.0	-48.8	-25.0	-23.8	

90 MHz
 QPSK
 Antenna E
 Sub 2

END OF REPORT