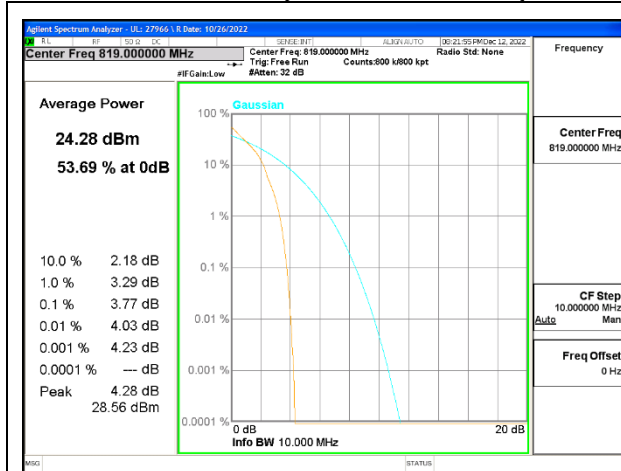


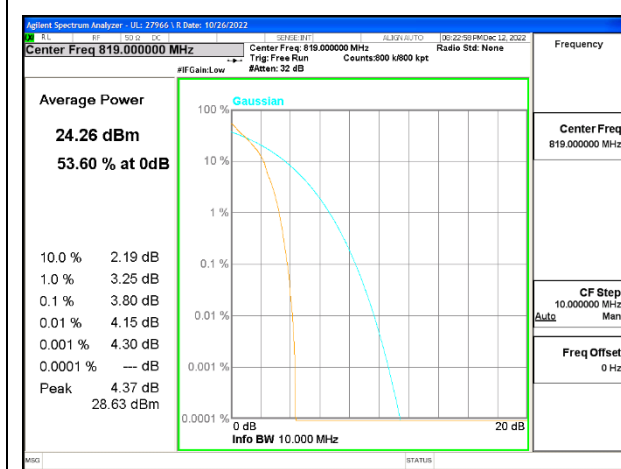
9.5.7. LTE BAND 26 (FCC PART 90S)



LTE B26 1.4MHz QPSK Middle Channel



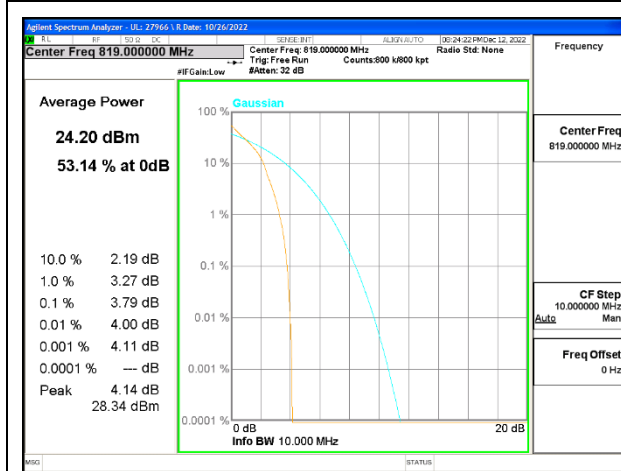
LTE B26 1.4MHz 16QAM Middle Channel



LTE B26 3MHz QPSK Middle Channel



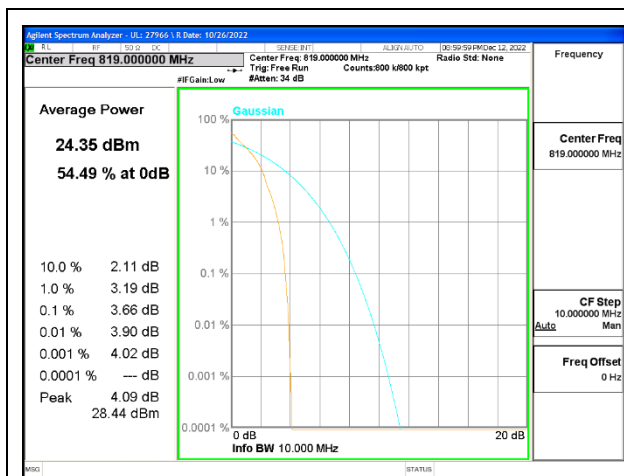
LTE B26 3MHz 16QAM Middle Channel



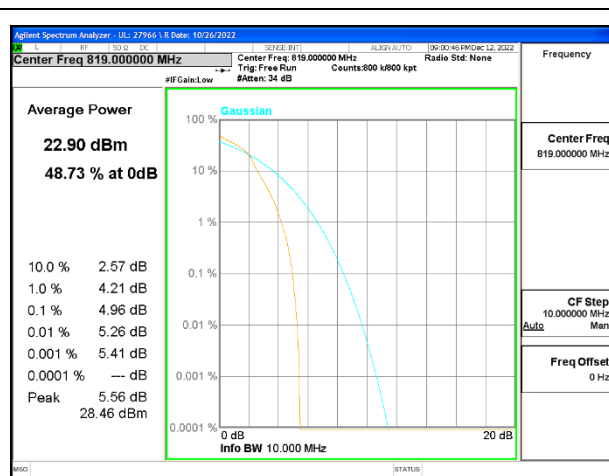
LTE B26 5MHz QPSK Middle Channel



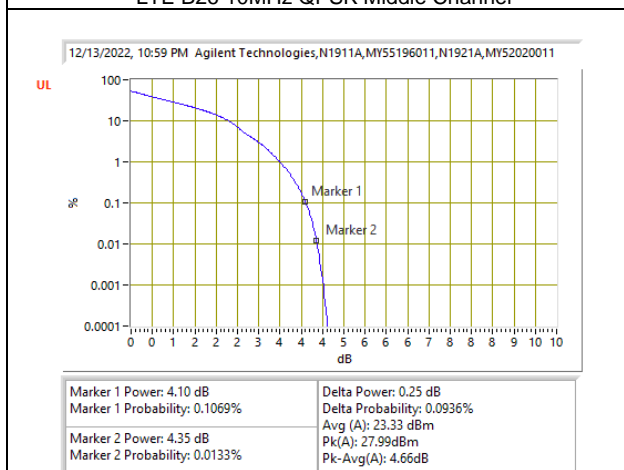
LTE B26 5MHz 16QAM Middle Channel



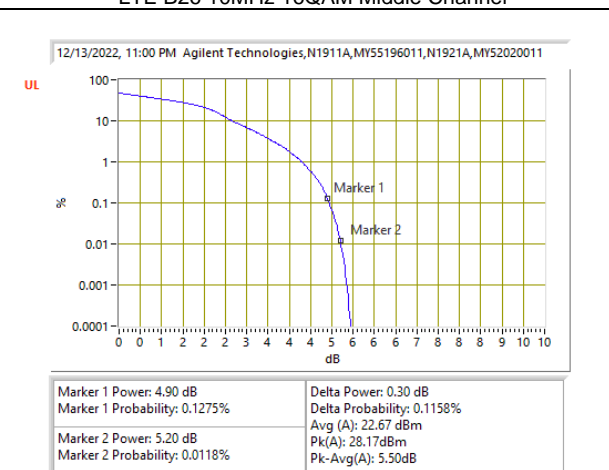
LTE B26 10MHz QPSK Middle Channel



LTE B26 10MHz 16QAM Middle Channel

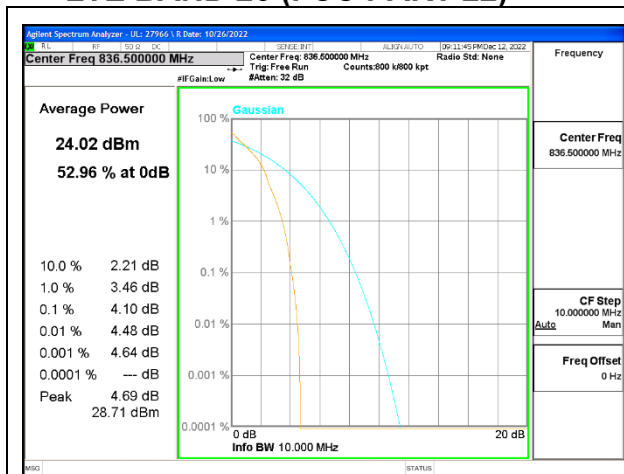


LTE B26 15MHz QPSK Middle Channel

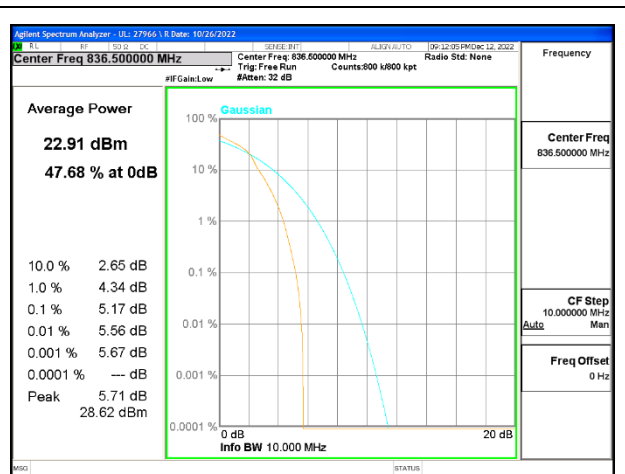


LTE B26 15MHz 16QAM Middle Channel

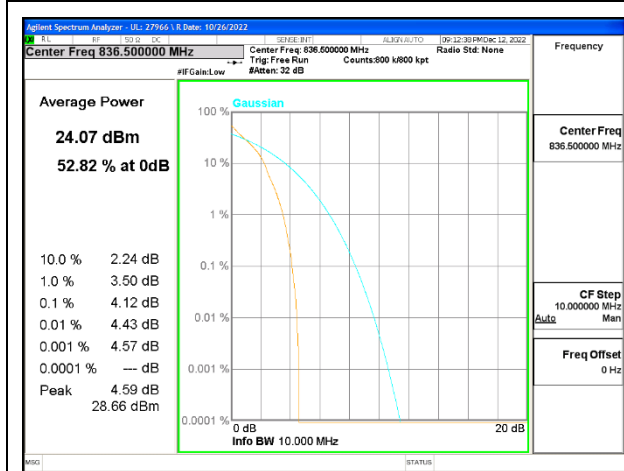
9.5.8. LTE BAND 26 (FCC PART 22)



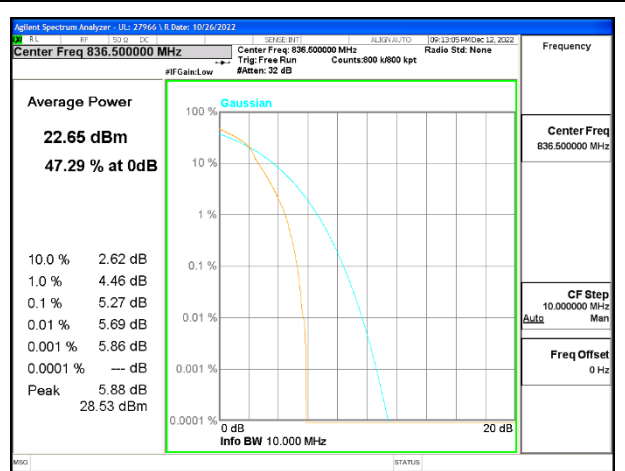
LTE B26 1.4MHz QPSK Middle Channel



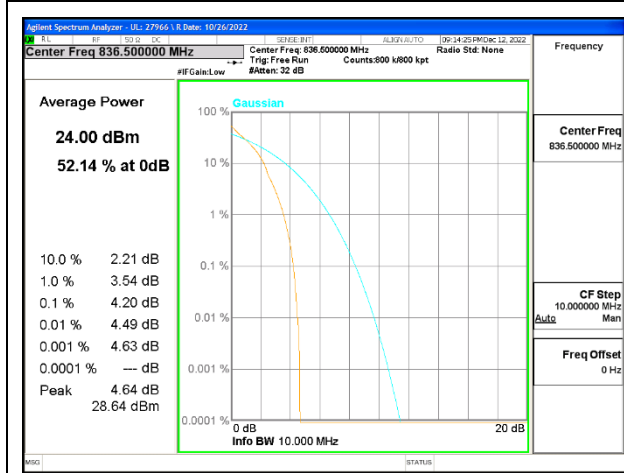
LTE B26 1.4MHz 16QAM Middle Channel



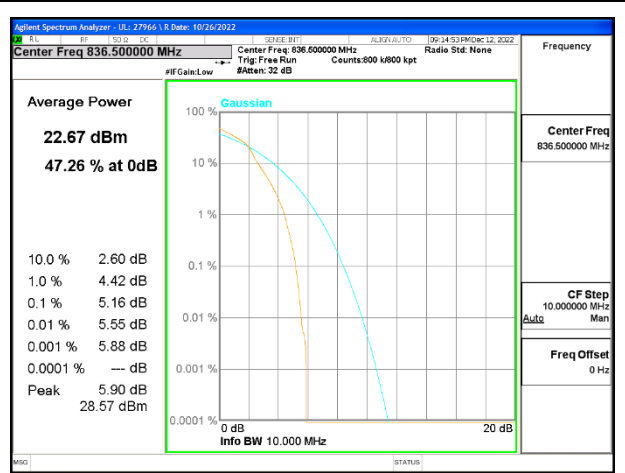
LTE B26 3MHz QPSK Middle Channel



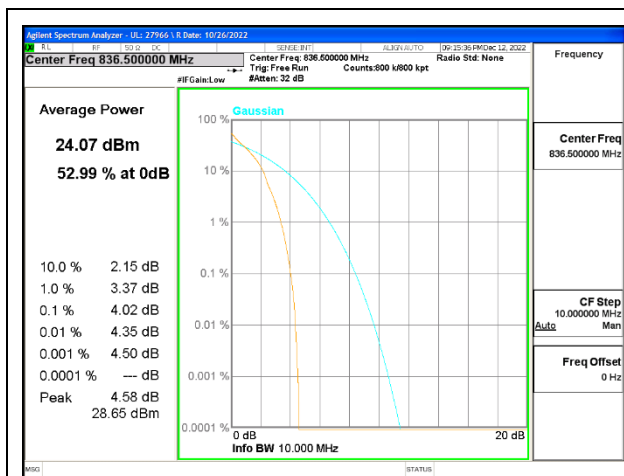
LTE B26 3MHz 16QAM Middle Channel



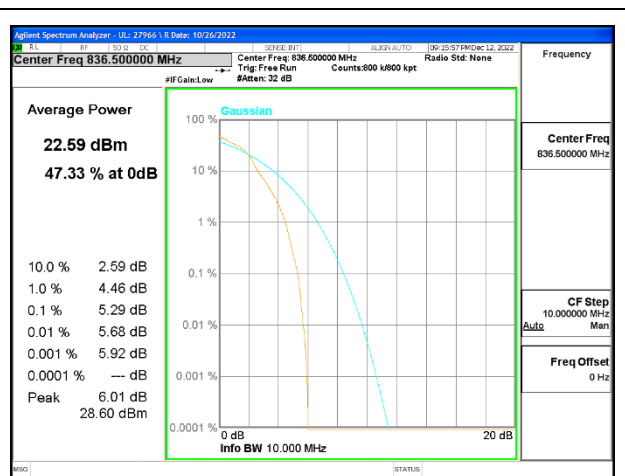
LTE B26 5MHz QPSK Middle Channel



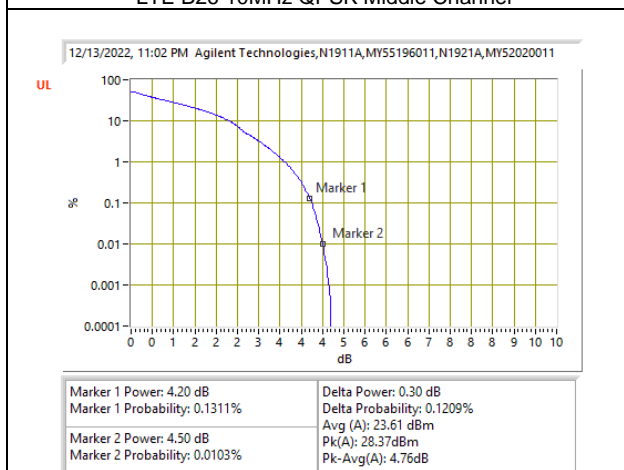
LTE B26 5MHz 16QAM Middle Channel



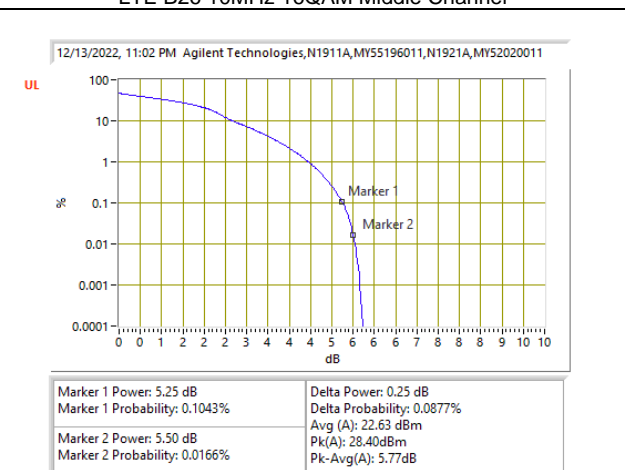
LTE B26 10MHz QPSK Middle Channel



LTE B26 10MHz 16QAM Middle Channel

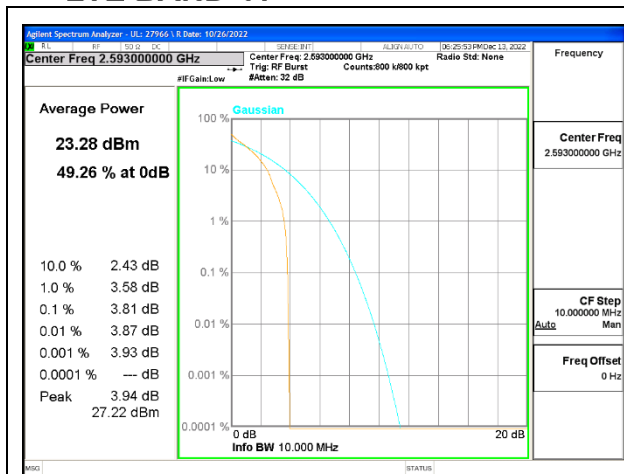


LTE B26 15MHz QPSK Middle Channel



LTE B26 15MHz 16QAM Middle Channel

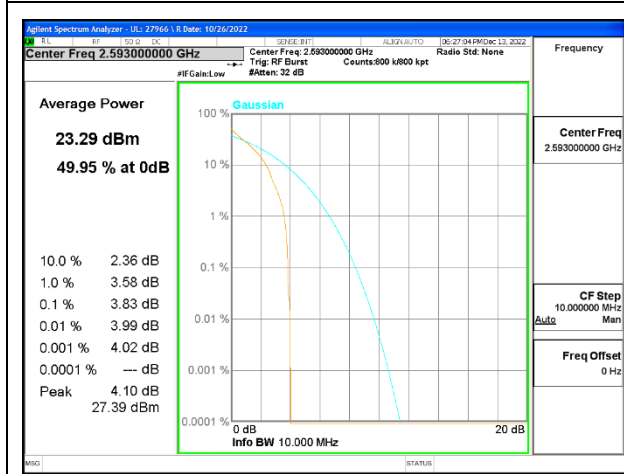
9.5.9. LTE BAND 41



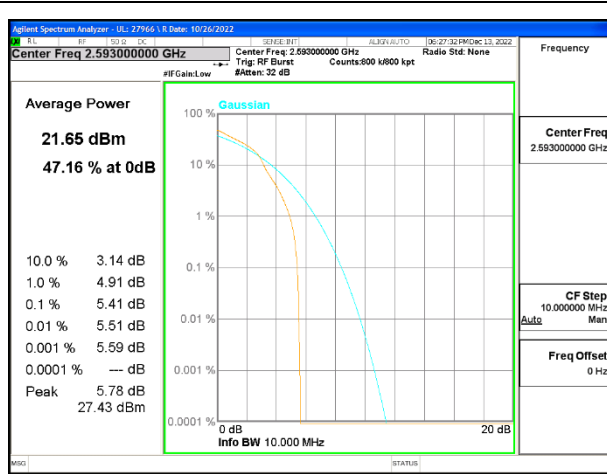
LTE B41 5MHz QPSK Middle Channel



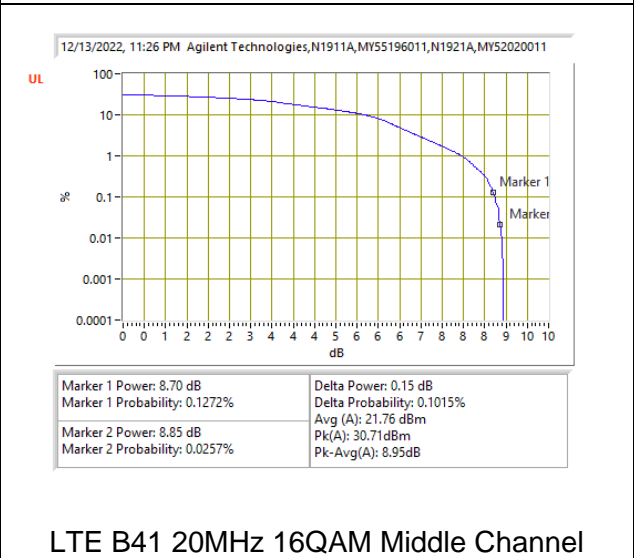
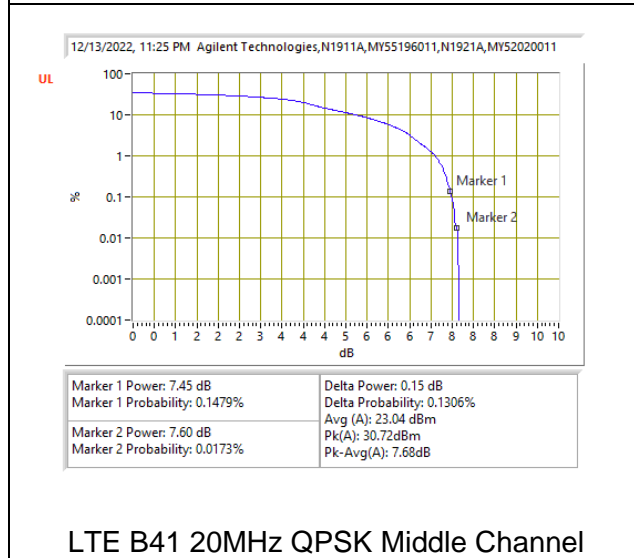
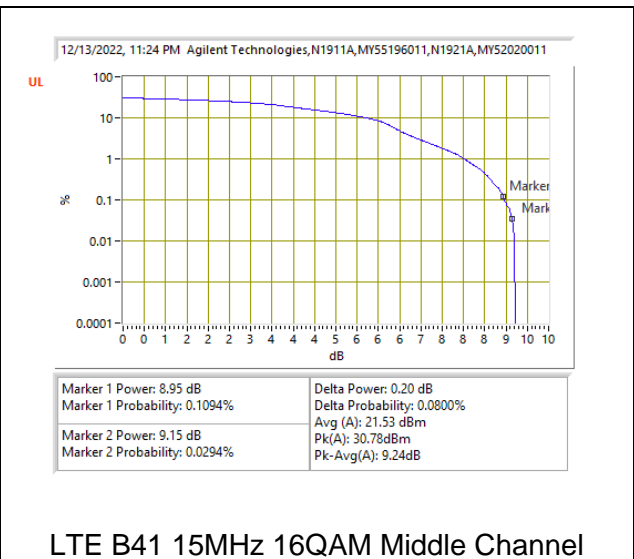
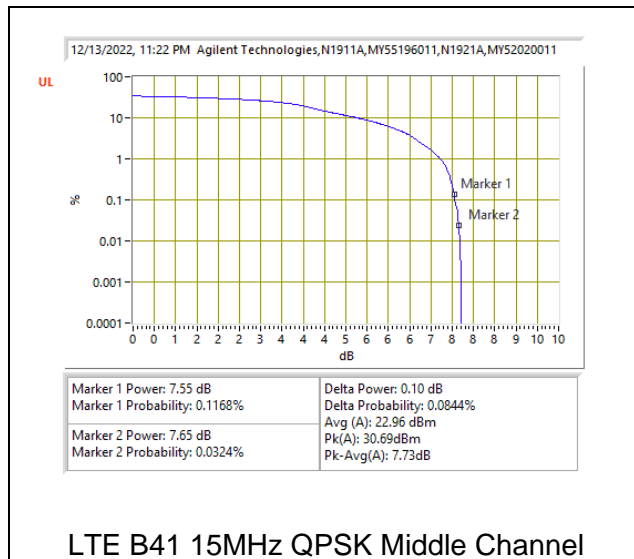
LTE B41 5MHz 16QAM Middle Channel



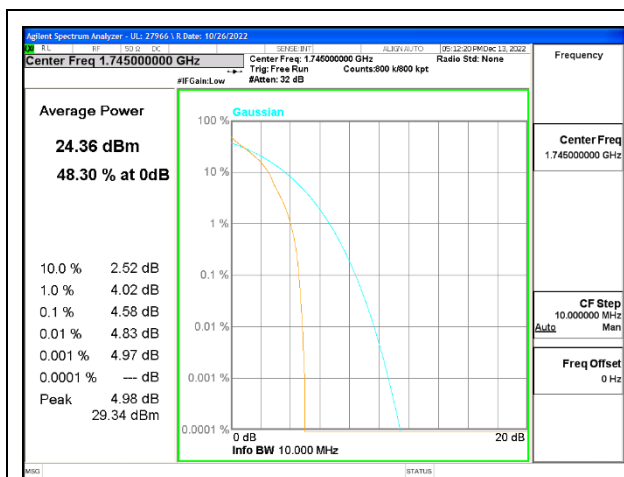
LTE B41 10MHz QPSK Middle Channel



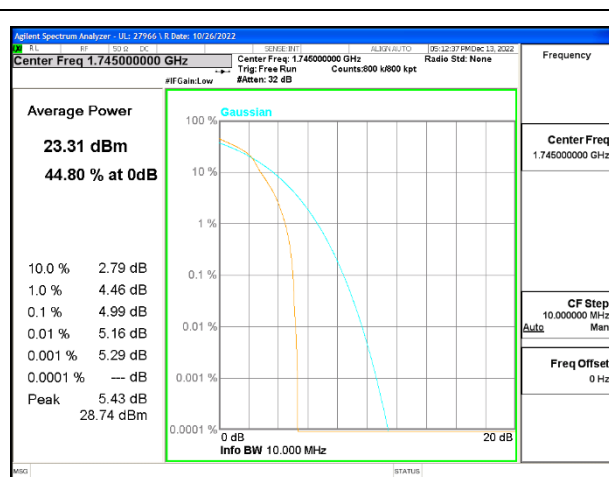
LTE B41 10MHz 16QAM Middle Channel



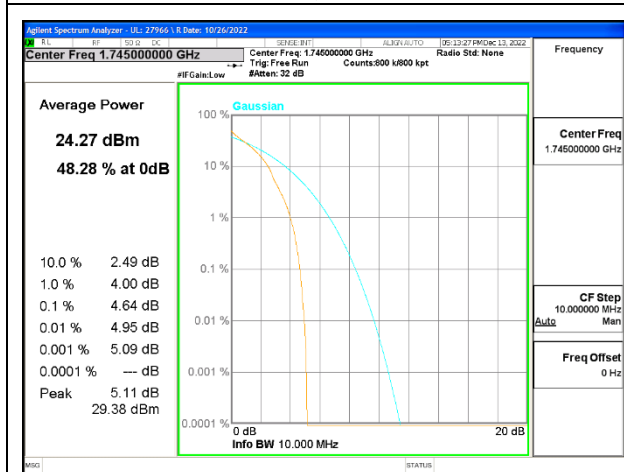
9.5.10. LTE BAND 66



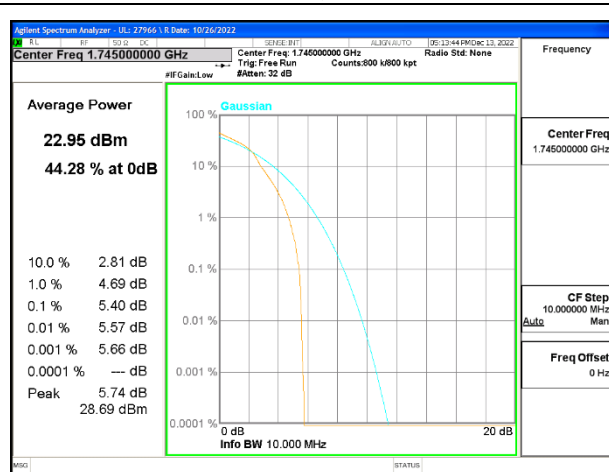
LTE B66 1.4MHz QPSK Middle Channel



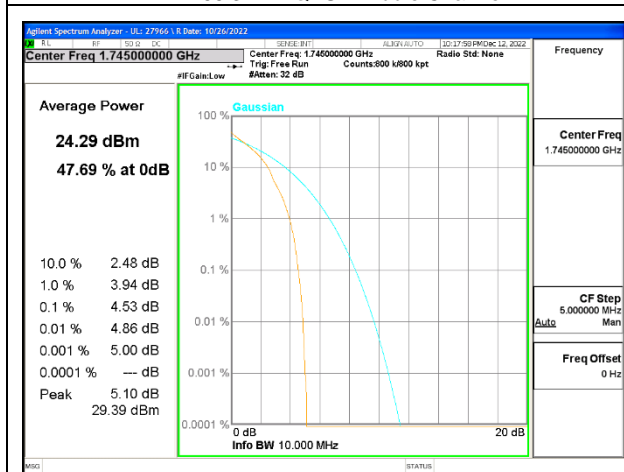
LTE B66 1.4MHz 16QAM Middle Channel



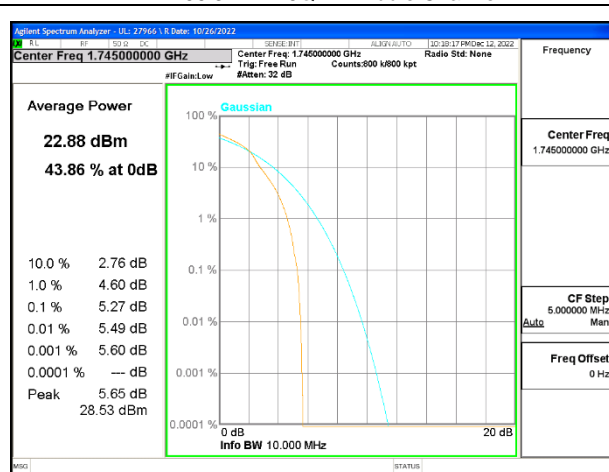
LTE B66 3MHz QPSK Middle Channel



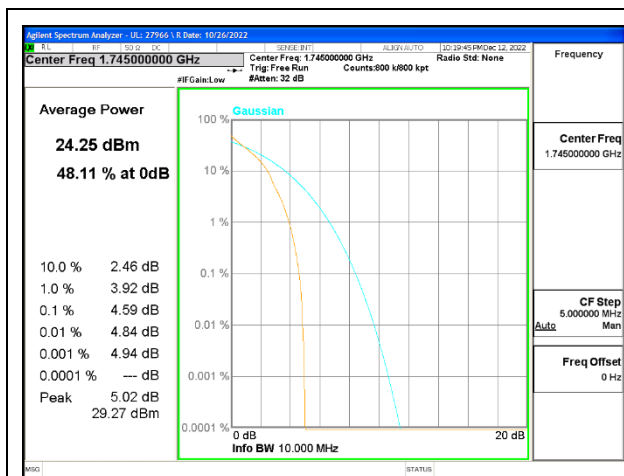
LTE B66 3MHz 16QAM Middle Channel



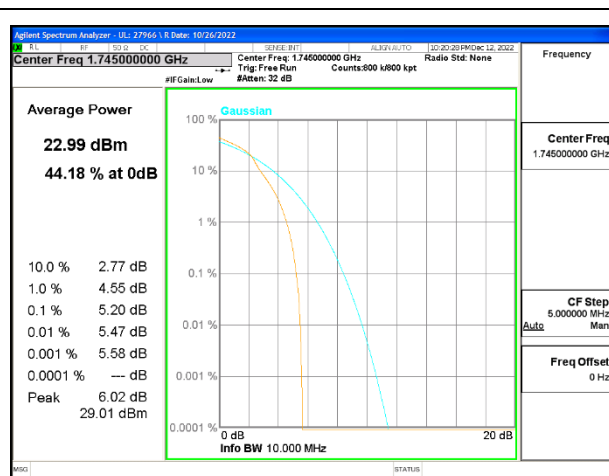
LTE B66 5MHz QPSK Middle Channel



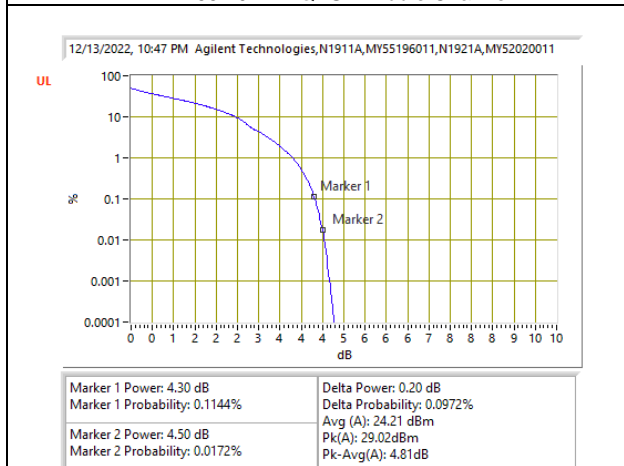
LTE B66 5MHz 16QAM Middle Channel



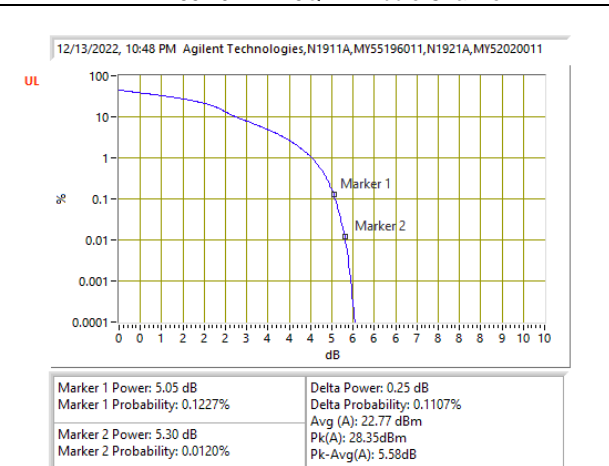
LTE B66 10MHz QPSK Middle Channel



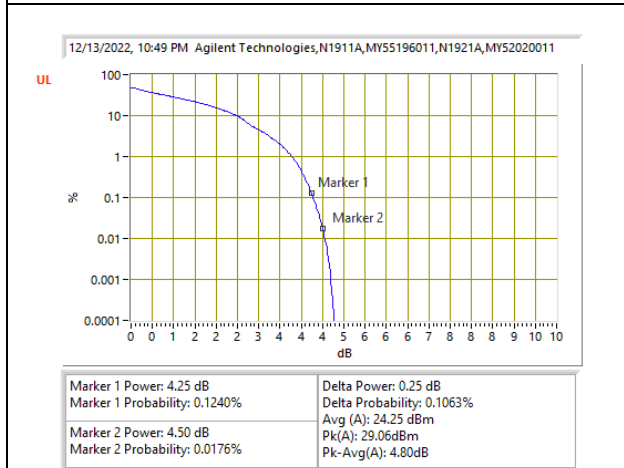
LTE B66 10MHz 16QAM Middle Channel



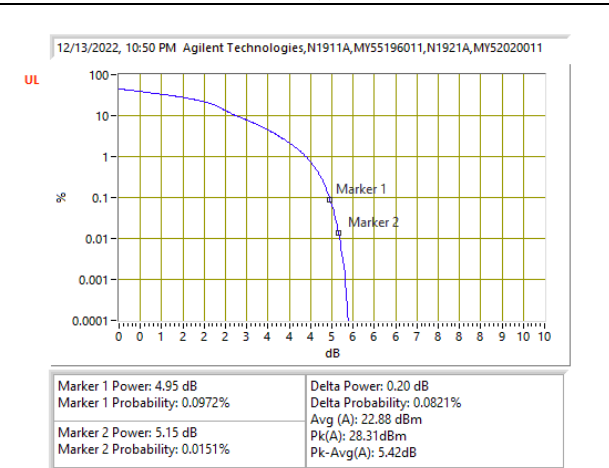
LTE B66 15MHz QPSK Middle Channel



LTE B66 15MHz 16QAM Middle Channel



LTE B66 20MHz QPSK Middle Channel



LTE B66 20MHz 16QAM Middle Channel

10. RADIATED TEST RESULTS

10.1. EFFECTIVE RADIATED POWER ERP/EIRP

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50, §90.691

LIMITS

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

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B12)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 66)

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 (2016), Clause 2.2.17; PSA setting reference to 971168 D01 v03r01

For peak power measurement with a PSA:

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; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW \geq 3 \times RBW; d) Set number of points in sweep \geq 2 \times span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle \geq 98; h) Use trigger to capture bursts If burst duty cycle < 98; i) Trace average at least 100 traces in power averaging (i.e., RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

TEST RESULTS

GSM

Band	Mode	Channel	f(MHz)	ERP/EIRP	
				dBm	W
GSM 850	GPRS	128	824.2	29.95	0.9886
		190	836.6	28.62	0.7278
		251	848.8	28.22	0.6637
	EGPRS	128	824.2	26.01	0.3990
		190	836.6	24.76	0.2992
		251	848.8	23.95	0.2489
GSM 1900	GPRS	512	1850.2	29.77	0.9484
		661	1880.0	28.10	0.6457
		810	1909.8	29.16	0.8241
	EGPRS	512	1850.2	26.20	0.4169
		661	1880.0	26.05	0.4027
		810	1909.8	26.10	0.4074

WCDMA

Band	Mode	Channel	f(MHz)	ERP/EIRP	
				dBm	W
Band 2	REL99	9262	1852.4	21.14	0.1300
		9400	1880	20.12	0.1028
		9538	1907.6	21.94	0.1563
	HSDPA	9262	1852.4	20.67	0.1167
		9400	1880.0	20.01	0.1002
		9538	1907.6	21.03	0.1268
Band 5	REL99	4132	826.4	20.16	0.1038
		4183	836.6	21.12	0.1294
		4233	846.6	21.10	0.1288
	HSDPA	4132	826.4	19.80	0.0955
		4183	836.6	20.36	0.1086
		4233	846.6	20.61	0.1151
Band 4	REL99	1312	1712.4	20.90	0.1230
		1413	1732.6	20.65	0.1161
		1513	1752.6	21.04	0.1271
	HSDPA	1312	1712.4	20.39	0.1094
		1413	1732.6	20.18	0.1042
		1513	1752.6	20.69	0.1172

LTE Band 2

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	W
20	QPSK	1/0	1860	20.41	0.1099
		1/0	1880	20.25	0.1059
		1/0	1900	21.27	0.1340
	16QAM	1/0	1860	19.27	0.0845
		1/0	1880	19.58	0.0908
		1/0	1900	20.22	0.1052
15	QPSK	1/0	1857.5	20.35	0.1084
		1/0	1880	20.15	0.1035
		1/0	1902.5	21.36	0.1368
	16QAM	1/0	1857.5	19.24	0.0839
		1/0	1880	19.52	0.0895
		1/0	1902.5	20.09	0.1021
10	QPSK	1/0	1855	20.38	0.1091
		1/0	1880	20.06	0.1014
		1/0	1905	21.11	0.1291
	16QAM	1/0	1855	19.17	0.0826
		1/0	1880	19.03	0.0800
		1/0	1905	19.93	0.0984
5	QPSK	1/0	1852.5	20.34	0.1081
		1/0	1880	20.35	0.1084
		1/0	1907.5	21.26	0.1337
	16QAM	1/0	1852.5	19.42	0.0875
		1/0	1880	19.29	0.0849
		1/0	1907.5	20.26	0.1062
3	QPSK	1/0	1851.5	20.45	0.1109
		1/0	1880	20.40	0.1096
		1/0	1908.5	21.23	0.1327
	16QAM	1/0	1851.5	19.19	0.0830
		1/0	1880	19.21	0.0834
		1/0	1908.5	20.08	0.1019
1.4	QPSK	1/0	1850.7	20.34	0.1081
		1/0	1880	20.46	0.1112
		1/0	1909.3	21.15	0.1303
	16QAM	1/0	1850.7	19.23	0.0838
		1/0	1880	19.36	0.0863
		1/0	1909.3	20.00	0.1000

LTE Band 5

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	W
10	QPSK	1/0	829	20.22	0.1052
		1/0	836.5	21.34	0.1361
		1/0	844	21.39	0.1377
	16QAM	1/0	829	18.84	0.0766
		1/0	836.5	19.93	0.0984
		1/0	844	19.75	0.0944
5	QPSK	1/0	826.5	20.62	0.1153
		1/0	836.5	21.26	0.1337
		1/0	846.5	21.50	0.1413
	16QAM	1/0	826.5	19.07	0.0807
		1/0	836.5	19.56	0.0904
		1/0	846.5	19.65	0.0923
3	QPSK	1/0	825.5	20.23	0.1054
		1/0	836.5	21.16	0.1306
		1/0	847.5	21.20	0.1318
	16QAM	1/0	825.5	18.70	0.0741
		1/0	836.5	19.44	0.0879
		1/0	847.5	19.48	0.0887
1.4	QPSK	1/0	824.7	20.41	0.1099
		1/0	836.5	21.52	0.1419
		1/0	848.3	21.54	0.1426
	16QAM	1/0	824.7	19.08	0.0809
		1/0	836.5	20.10	0.1023
		1/0	848.3	20.27	0.1064

LTE Band 12

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	W
10	QPSK	1/0	704	18.48	0.0705
		1/0	707.5	18.84	0.0766
		1/0	711	18.84	0.0766
	16QAM	1/0	704	17.14	0.0518
		1/0	707.5	17.62	0.0578
		1/0	711	17.82	0.0605
5	QPSK	1/0	701.5	17.79	0.0601
		1/0	707.5	19.07	0.0807
		1/0	713.5	18.92	0.0780
	16QAM	1/0	701.5	16.71	0.0469
		1/0	707.5	18.05	0.0638
		1/0	713.5	18.05	0.0638
3	QPSK	1/0	700.5	18.35	0.0684
		1/0	707.5	19.12	0.0817
		1/0	714.5	19.54	0.0899
	16QAM	1/0	700.5	17.19	0.0524
		1/0	707.5	18.10	0.0646
		1/0	714.5	18.21	0.0662
1.4	QPSK	1/0	699.7	18.20	0.0661
		1/0	707.5	18.88	0.0773
		1/0	715.3	19.49	0.0889
	16QAM	1/0	699.7	17.19	0.0524
		1/0	707.5	17.75	0.0596
		1/0	715.3	18.16	0.0655

LTE Band 13

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	W
10	QPSK	1/0	782	18.57	0.0719
	16QAM	1/0	782	17.00	0.0555
5	QPSK	1/0	779.5	19.02	0.0798
		1/0	782	18.89	0.0774
		1/0	784.5	18.79	0.0757
	16QAM	1/0	779.5	18.08	0.0643
		1/0	782	17.48	0.0560
		1/0	784.5	17.57	0.0571

LTE Band 26 (FCC PART 90S)

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	W
15	QPSK	1/0	819	20.28	0.1067
	16QAM	1/0	819	18.48	0.0705
10	QPSK	1/0	819	20.55	0.1135
	16QAM	1/0	819	18.97	0.0789
5	QPSK	1/0	816.5	19.55	0.0902
		1/0	819	20.60	0.1148
		1/0	821.5	20.37	0.1089
	16QAM	1/0	816.5	18.02	0.0634
		1/0	819	19.13	0.0818
		1/0	821.5	19.04	0.0802
3	QPSK	1/0	815.5	19.35	0.0861
		1/0	819	20.34	0.1081
		1/0	822.5	20.49	0.1119
	16QAM	1/0	815.5	17.85	0.0610
		1/0	819	18.50	0.0708
		1/0	822.5	18.85	0.0767
1.4	QPSK	1/0	814.7	19.45	0.0881
		1/0	819	20.29	0.1069
		1/0	823.3	20.44	0.1107
	16QAM	1/0	814.7	17.78	0.0600
		1/0	819	18.81	0.0760
		1/0	823.3	19.24	0.0839

LTE Band 26 (FCC PART 22)

BW (MHz)	Mode	RB/RB Size	f(MHz)	ERP	
				dBm	W
15	QPSK	1/0	831.5	19.63	0.0918
		1/0	836.5	20.56	0.1138
		1/0	841.5	20.93	0.1239
	16QAM	1/0	831.5	17.94	0.0622
		1/0	836.5	19.10	0.0813
		1/0	841.5	19.11	0.0815
10	QPSK	1/0	829.0	19.62	0.0916
		1/0	836.5	20.68	0.1169
		1/0	844.0	20.91	0.1233
	16QAM	1/0	829.0	17.99	0.0630
		1/0	836.5	19.21	0.0834
		1/0	844.0	19.17	0.0826
5	QPSK	1/0	826.5	19.46	0.0883
		1/0	836.5	20.65	0.1161
		1/0	846.5	20.74	0.1186
	16QAM	1/0	826.5	17.89	0.0615
		1/0	836.5	19.14	0.0820
		1/0	846.5	18.96	0.0787
3	QPSK	1/0	825.5	19.56	0.0904
		1/0	836.5	20.36	0.1086
		1/0	847.5	20.83	0.1211
	16QAM	1/0	825.5	18.04	0.0637
		1/0	836.5	18.82	0.0762
		1/0	847.5	19.22	0.0836
1.4	QPSK	1/0	824.7	19.45	0.0881
		1/0	836.5	20.32	0.1076
		1/0	848.3	20.81	0.1205
	16QAM	1/0	824.7	18.00	0.0631
		1/0	836.5	18.86	0.0769
		1/0	848.3	19.15	0.0822

LTE Band 41

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	W
20	QPSK	1/0	2506	18.40	0.0692
		1/0	2593	17.73	0.0593
		1/0	2680	17.39	0.0548
	16QAM	1/0	2506	17.77	0.0598
		1/0	2593	16.85	0.0484
		1/0	2680	16.87	0.0486
15	QPSK	1/0	2503.5	18.31	0.0678
		1/0	2593	17.40	0.0550
		1/0	2682.5	17.71	0.0590
	16QAM	1/0	2503.5	17.46	0.0557
		1/0	2593	16.69	0.0467
		1/0	2682.5	16.65	0.0462
10	QPSK	1/0	2501	19.25	0.0841
		1/0	2593	17.82	0.0605
		1/0	2685	18.40	0.0692
	16QAM	1/0	2501	18.31	0.0678
		1/0	2593	16.60	0.0457
		1/0	2685	17.20	0.0525
5	QPSK	1/0	2498.5	19.24	0.0839
		1/0	2593	17.89	0.0615
		1/0	2687.5	18.65	0.0733
	16QAM	1/0	2498.5	18.31	0.0678
		1/0	2593	16.61	0.0458
		1/0	2687.5	17.38	0.0547

LTE Band 66

BW (MHz)	Mode	RB/RB Size	f(MHz)	EIRP	
				dBm	W
20	QPSK	1/0	1720	20.59	0.1146
		1/0	1745	20.97	0.1250
		1/0	1770	21.54	0.1426
	16QAM	1/0	1720	18.95	0.0785
		1/0	1745	19.48	0.0887
		1/0	1770	20.08	0.1019
15	QPSK	1/0	1717.5	20.40	0.1096
		1/0	1745	20.99	0.1256
		1/0	1772.5	21.35	0.1365
	16QAM	1/0	1717.5	19.01	0.0796
		1/0	1745	19.46	0.0883
		1/0	1772.5	19.95	0.0989
10	QPSK	1/0	1715	20.34	0.1081
		1/0	1745	20.61	0.1151
		1/0	1775	21.08	0.1282
	16QAM	1/0	1715	18.93	0.0782
		1/0	1745	19.09	0.0811
		1/0	1775	19.72	0.0938
5	QPSK	1/0	1712.5	20.05	0.1012
		1/0	1745	20.67	0.1167
		1/0	1777.5	21.26	0.1337
	16QAM	1/0	1712.5	18.59	0.0723
		1/0	1745	19.26	0.0843
		1/0	1777.5	19.81	0.0957
3	QPSK	1/0	1711.5	20.42	0.1102
		1/0	1745	20.56	0.1138
		1/0	1778.5	21.10	0.1288
	16QAM	1/0	1711.5	18.89	0.0774
		1/0	1745	19.22	0.0836
		1/0	1778.5	19.67	0.0927
1.4	QPSK	1/0	1710.7	20.34	0.1081
		1/0	1745	20.63	0.1156
		1/0	1779.3	21.06	0.1276
	16QAM	1/0	1710.7	18.86	0.0769
		1/0	1745	19.21	0.0834
		1/0	1779.3	19.66	0.0925

10.1.1. GSM

GPRS 850									EGPRS 850								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/3/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: GPRS 850 MHz Fundamentals Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/3/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: EGPRS 850 MHz Fundamentals Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch 824.20 21.12 V 0.9 0.7 20.89 38.5 -17.6 824.20 29.78 H 0.9 1.1 29.95 38.5 -8.5 Mid Ch 836.60 18.88 V 0.9 0.6 18.35 38.5 -20.2 836.60 28.46 H 0.9 1.1 28.62 38.5 -9.9 High Ch 848.80 20.15 V 1.0 0.5 19.68 38.5 -18.8 848.80 28.10 H 1.0 1.1 28.22 38.5 -10.3									Low Ch 824.20 17.22 V 0.9 0.7 16.99 38.5 -21.5 824.20 25.84 H 0.9 1.1 26.01 38.5 -12.5 Mid Ch 836.60 14.75 V 0.9 0.6 14.42 38.5 -24.1 836.60 24.60 H 0.9 1.1 24.76 38.5 -13.7 High Ch 848.80 15.88 V 1.0 0.5 15.41 38.5 -23.1 848.80 23.83 H 1.0 1.1 23.95 38.5 -14.6								
GPRS 1900									EGPRS 1900								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 12/30/2022 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: GPRS 1900 MHz Fundamentals Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 12/30/2022 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: EGPRS 1900 MHz Fundamentals Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch 1850.20 11.04 V 1.1 9.1 19.07 33.0 -13.9 1850.20 21.67 H 1.1 9.2 29.77 33.0 -3.2 Mid Ch 1880.00 12.77 V 1.2 9.2 20.69 33.0 -12.3 1880.00 20.13 H 1.2 9.2 28.10 33.0 -4.9 High Ch 1909.80 17.58 V 1.1 9.2 25.61 33.0 -7.4 1909.80 21.08 H 1.1 9.2 29.16 33.0 -3.8									Low Ch 1850.20 7.65 V 1.1 9.1 15.68 33.0 -17.3 1850.20 18.10 H 1.1 9.2 26.20 33.0 -6.8 Mid Ch 1880.00 10.81 V 1.2 9.2 18.73 33.0 -14.3 1880.00 18.08 H 1.2 9.2 26.05 33.0 -7.0 High Ch 1909.80 15.45 V 1.1 9.2 23.48 33.0 -9.5 1909.80 18.02 H 1.1 9.2 26.10 33.0 -6.9								

10.1.2. WCDMA

B2 REL99										B2 HSDPA																													
UL Verification Services, Inc. High Frequency Substitution Measurement					UL Verification Services, Inc. High Frequency Substitution Measurement					UL Verification Services, Inc. High Frequency Substitution Measurement					UL Verification Services, Inc. High Frequency Substitution Measurement																								
Company: Samsung Project #: 14586572 Date: 12/29/2022 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: Rel99 Band 2 Fundamentals					Company: Samsung Project #: 14586572 Date: 12/29/2022 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: HSDPA Band 2 Fundamentals					Company: Samsung Project #: 14586572 Date: 1/3/2023 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: HSDPA Band 5 Fundamentals					Company: Samsung Project #: 14586572 Date: 1/3/2023 Test Engineer: 39005 Configuration: EUT Only Location: Chamber K Mode: HSDPA Band 5 Fundamentals																								
Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables					Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables					Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604					Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604																								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch 1852.40 1.48 V 1.1 9.2 9.58 33.0 -23.4 1852.40 13.04 H 1.1 9.2 21.14 33.0 -11.9 Mid Ch 1880.00 2.21 V 1.2 9.2 10.17 33.0 -22.8 1880.00 12.16 H 1.2 9.2 20.12 33.0 -12.9 High Ch 1907.60 -0.32 V 1.1 9.2 7.76 33.0 -25.2 1907.60 13.86 H 1.1 9.2 21.94 33.0 -11.1										Low Ch 1852.40 1.23 V 1.1 9.2 9.30 33.0 -23.7 1852.40 12.60 H 1.1 9.2 20.67 33.0 -12.3 Mid Ch 1880.00 1.66 V 1.2 9.2 9.71 33.0 -23.3 1880.00 11.96 H 1.2 9.2 20.01 33.0 -13.0 High Ch 1907.60 -0.73 V 1.1 9.2 7.36 33.0 -25.6 1907.60 12.94 H 1.1 9.2 21.03 33.0 -12.0										Low Ch 826.40 14.04 V 0.9 0.7 13.80 38.5 -24.7 826.40 19.99 H 0.9 1.1 20.16 38.5 -18.3 Mid Ch 836.60 14.87 V 0.9 0.6 14.54 38.5 -24.0 836.60 20.96 H 0.9 1.1 21.12 38.5 -17.4 High Ch 846.60 14.98 V 1.0 0.5 14.63 38.5 -24.0 846.60 20.98 H 1.0 1.1 21.10 38.5 -17.4										Low Ch 826.40 13.57 V 0.9 0.7 13.32 38.5 -25.2 826.40 19.64 H 0.9 1.1 19.80 38.5 -18.7 Mid Ch 836.60 14.33 V 0.9 0.6 13.99 38.5 -24.5 836.60 20.21 H 0.9 1.1 20.36 38.5 -18.1 High Ch 846.60 14.22 V 1.0 0.5 13.79 38.5 -24.7 846.60 20.46 H 1.0 1.1 20.61 38.5 -17.9									
B4 REL99										B4 HSDPA																													
UL Verification Services, Inc. High Frequency Substitution Measurement					UL Verification Services, Inc. High Frequency Substitution Measurement					UL Verification Services, Inc. High Frequency Substitution Measurement					UL Verification Services, Inc. High Frequency Substitution Measurement																								
Company: Samsung Project #: 14586572 Date: 12/29/2022 Test Engineer: 27966 PV Configuration: EUT only Location: Chamber K Mode: Rel99 Band 4 Fundamentals					Company: Samsung Project #: 14586572 Date: 12/29/2022 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: HSDPA Band 4 Fundamentals					Company: Samsung Project #: 14586572 Date: 12/29/2022 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: HSDPA Band 4 Fundamentals					Company: Samsung Project #: 14586572 Date: 12/29/2022 Test Engineer: 39005 Configuration: EUT only Location: Chamber K Mode: HSDPA Band 4 Fundamentals																								
Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables					Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables					Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables					Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, Chamber K Passthrough Cables																								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch 1712.40 0.33 V 1.1 8.9 8.11 30.0 -21.9 1712.40 13.12 H 1.1 8.9 20.90 30.0 -9.1 Mid Ch 1732.60 1.75 V 1.1 8.9 9.59 30.0 -20.4 1732.60 12.81 H 1.1 8.9 20.65 30.0 -9.3 High Ch 1752.60 0.45 V 1.0 9.0 8.39 30.0 -21.6 1752.60 13.10 H 1.0 9.0 21.04 30.0 -9.0										Low Ch 1712.40 -0.84 V 1.1 8.9 6.84 30.0 -23.2 1712.40 12.61 H 1.1 8.9 20.39 30.0 -9.6 Mid Ch 1732.60 0.57 V 1.1 8.9 8.41 30.0 -21.6 1732.60 12.34 H 1.1 8.9 20.18 30.0 -9.8 High Ch 1752.60 -0.64 V 1.0 9.0 7.30 30.0 -22.7 1752.60 12.75 H 1.0 9.0 20.69 30.0 -9.3																													

10.1.3. LTE Band 2

20MHz QPSK										20MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 2 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 2 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1860.00	5.42	V	1.1	9.1	13.41	33.0	-19.6			1860.00	4.69	V	1.1	9.1	12.68	33.0	-20.3			
1860.00	12.36	H	1.1	9.2	20.41	33.0	-12.6			1860.00	11.22	H	1.1	9.2	19.27	33.0	-13.7			
Mid Ch										Mid Ch										
1880.00	3.90	V	1.2	9.2	11.82	33.0	-21.2			1880.00	3.00	V	1.2	9.2	10.92	33.0	-22.1			
1880.00	12.28	H	1.2	9.2	20.25	33.0	-12.8			1880.00	11.61	H	1.2	9.2	19.58	33.0	-13.4			
High Ch										High Ch										
1900.00	6.65	V	1.2	9.2	14.65	33.0	-18.4			1900.00	5.67	V	1.2	9.2	13.87	33.0	-19.1			
1900.00	13.22	H	1.2	9.2	21.27	33.0	-11.7			1900.00	12.17	H	1.2	9.2	20.22	33.0	-12.8			
15MHz QPSK										15MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 2 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 2 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1857.50	5.36	V	1.1	9.1	13.37	33.0	-19.6			1857.50	4.66	V	1.1	9.1	12.67	33.0	-20.1			
1857.50	12.28	H	1.1	9.2	20.35	33.0	-12.7			1857.50	11.17	H	1.1	9.2	19.24	33.0	-13.8			
Mid Ch										Mid Ch										
1880.00	4.28	V	1.2	9.2	12.20	33.0	-20.8			1880.00	3.30	V	1.2	9.2	11.22	33.0	-21.8			
1880.00	12.18	H	1.2	9.2	20.15	33.0	-12.9			1880.00	11.55	H	1.2	9.2	19.52	33.0	-13.5			
High Ch										High Ch										
1902.50	7.30	V	1.2	9.2	15.31	33.0	-17.7			1902.50	6.47	V	1.2	9.2	14.48	33.0	-18.5			
1902.50	13.30	H	1.2	9.2	21.36	33.0	-11.6			1902.50	12.03	H	1.2	9.2	20.09	33.0	-12.9			
10MHz QPSK										10MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 2 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 2 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1855.00	5.28	V	1.1	9.1	13.29	33.0	-19.7			1855.00	4.35	V	1.1	9.1	12.36	33.0	-20.6			
1855.00	12.30	H	1.1	9.2	20.38	33.0	-12.6			1855.00	11.09	H	1.1	9.2	19.17	33.0	-13.8			
Mid Ch										Mid Ch										
1880.00	4.28	V	1.2	9.2	12.20	33.0	-20.8			1880.00	3.38	V	1.2	9.2	11.30	33.0	-21.7			
1880.00	12.99	H	1.2	9.2	20.96	33.0	-12.9			1880.00	11.96	H	1.2	9.2	19.93	33.0	-14.0			
High Ch										High Ch										
1905.00	6.82	V	1.2	9.2	14.83	33.0	-18.2			1905.00	5.96	V	1.2	9.2	13.97	33.0	-19.0			
1905.00	13.05	H	1.2	9.2	21.11	33.0	-11.9			1905.00	11.87	H	1.2	9.2	19.93	33.0	-13.1			

5MHz QPSK										5MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 2 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 2 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1852.50	5.28	V	1.1	9.1	13.31	33.0	-19.7			1852.50	4.56	V	1.1	9.1	12.59	33.0	-20.4			
1852.50	12.25	H	1.1	9.2	20.34	33.0	-12.7			1852.50	11.33	H	1.1	9.2	19.42	33.0	-13.6			
Mid Ch										Mid Ch										
1880.00	4.16	V	1.2	9.2	12.08	33.0	-20.9			1880.00	3.31	V	1.2	9.2	11.23	33.0	-21.8			
1880.00	12.38	H	1.2	9.2	20.35	33.0	-12.7			1880.00	11.32	H	1.2	9.2	19.29	33.0	-13.7			
High Ch										High Ch										
1907.50	6.77	V	1.1	9.2	14.79	33.0	-18.2			1907.50	5.95	V	1.1	9.2	13.97	33.0	-19.0			
1907.50	13.19	H	1.1	9.2	21.26	33.0	-11.7			1907.50	12.19	H	1.1	9.2	20.26	33.0	-12.7			

3MHz QPSK										3MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 2 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 2 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1851.50	5.20	V	1.1	9.1	13.23	33.0	-19.8			1851.50	4.46	V	1.1	9.1	12.49	33.0	-20.5			
1851.50	12.36	H	1.1	9.2	20.45	33.0	-12.5			1851.50	11.10	H	1.1	9.2	19.19	33.0	-13.8			
Mid Ch										Mid Ch										
1880.00	4.01	V	1.2	9.2	11.93	33.0	-21.1			1880.00	3.01	V	1.2	9.2	10.93	33.0	-22.1			
1880.00	12.43	H	1.2	9.2	20.40	33.0	-12.6			1880.00	11.24	H	1.2	9.2	19.21	33.0	-13.8			
High Ch										High Ch										
1908.50	6.93	V	1.1	9.2	14.96	33.0	-18.0			1908.50	5.51	V	1.1	9.2	13.54	33.0	-19.5			
1908.50	13.15	H	1.1	9.2	21.23	33.0	-11.8			1908.50	12.00	H	1.1	9.2	20.08	33.0	-12.9			

1.4MHz QPSK										1.4MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 2 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/10/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 2 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Horn 223083, and Chamber K SMA Cables Substitution: PRE0181256, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
1850.70	5.13	V	1.1	9.1	13.16	33.0	-19.8			1850.70	4.22	V	1.1	9.1	12.25	33.0	-20.8			
1850.70	12.24	H	1.1	9.2	20.34	33.0	-12.7			1850.70	11.13	H	1.1	9.2	19.23	33.0	-13.8			
Mid Ch										Mid Ch										
1880.00	4.36	V	1.2	9.2	12.28	33.0	-20.7			1880.00	3.54	V	1.2	9.2	11.46	33.0	-21.5			
1880.00	12.49	H	1.2	9.2	20.46	33.0	-12.5			1880.00	11.39	H	1.2	9.2	19.36	33.0	-13.6			
High Ch										High Ch										
1909.30	6.52	V	1.1	9.2	14.55	33.0	-18.5			1909.30	5.99	V	1.1	9.2	14.02	33.0	-19.0			
1909.30	13.07	H	1.1	9.2	21.15	33.0	-11.9			1909.30	11.92	H	1.1	9.2	20.00	33.0	-13.0			

10.1.4. LTE Band 5

10MHz QPSK										10MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 5 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 5 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch	829.00	14.33	V	0.9	0.7	14.07	38.5	-24.4		Low Ch	829.00	12.61	V	0.9	0.7	12.35	38.5	-26.2		
	829.00	20.05	H	0.9	1.1	20.22	38.5	-18.3			829.00	18.67	H	0.9	1.1	18.84	38.5	-19.7		
Mid Ch										Mid Ch										
	836.50	14.51	V	0.9	0.6	14.18	38.5	-24.3			836.50	12.48	V	0.9	0.6	12.15	38.5	-26.4		
	836.50	21.18	H	0.9	1.1	21.34	38.5	-17.2			836.50	19.77	H	0.9	1.1	19.93	38.5	-18.6		
High Ch										High Ch										
	844.00	14.48	V	1.0	0.5	14.06	38.5	-24.4			844.00	12.81	V	1.0	0.5	12.39	38.5	-26.1		
	844.00	21.26	H	1.0	1.1	21.39	38.5	-17.1			844.00	19.82	H	1.0	1.1	19.75	38.5	-18.7		
5MHz QPSK										5MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 5 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 5 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch	826.50	14.52	V	0.9	0.7	14.28	38.5	-24.2		Low Ch	826.50	12.95	V	0.9	0.7	12.71	38.5	-25.8		
	826.50	20.45	H	0.9	1.1	20.62	38.5	-17.9			826.50	18.90	H	0.9	1.1	19.07	38.5	-19.4		
Mid Ch										Mid Ch										
	836.50	15.17	V	0.9	0.6	14.84	38.5	-23.7			836.50	13.40	V	0.9	0.6	13.07	38.5	-25.4		
	836.50	21.10	H	0.9	1.1	21.26	38.5	-17.2			836.50	19.40	H	0.9	1.1	19.56	38.5	-18.9		
High Ch										High Ch										
	846.50	14.72	V	1.0	0.5	14.27	38.5	-24.2			846.50	12.85	V	1.0	0.5	12.40	38.5	-26.1		
	846.50	21.38	H	1.0	1.1	21.50	38.5	-17.0			846.50	19.53	H	1.0	1.1	19.65	38.5	-18.8		
3MHz QPSK										3MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 5 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 5 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch	825.50	14.10	V	0.9	0.7	13.87	38.5	-24.6		Low Ch	825.50	12.46	V	0.9	0.7	12.23	38.5	-26.3		
	825.50	20.06	H	0.9	1.1	20.23	38.5	-18.3			825.50	18.53	H	0.9	1.1	18.70	38.5	-19.8		
Mid Ch										Mid Ch										
	836.50	14.64	V	0.9	0.6	14.31	38.5	-24.2			836.50	12.81	V	0.9	0.6	12.48	38.5	-26.0		
	836.50	21.00	H	0.9	1.1	21.16	38.5	-17.3			836.50	19.28	H	0.9	1.1	19.44	38.5	-19.1		
High Ch										High Ch										
	847.50	14.20	V	1.0	0.5	13.74	38.5	-24.8			847.50	12.12	V	1.0	0.5	11.66	38.5	-26.8		
	847.50	21.08	H	1.0	1.1	21.20	38.5	-17.3			847.50	19.36	H	1.0	1.1	19.48	38.5	-19.0		
1.4MHz QPSK										1.4MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 5 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Samsung Project #: 14586572 Date: 1/5/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 5 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch	824.70	14.09	V	0.9	0.7	13.86	38.5	-24.6		Low Ch	824.70	12.70	V	0.9	0.7	12.47	38.5	-26.0		
	824.70	20.24	H	0.9	1.1	20.41	38.5	-18.1			824.70	18.91	H	0.9	1.1	19.08	38.5	-19.4		
Mid Ch										Mid Ch										
	836.50	14.60	V	0.9	0.6	14.27	38.5	-24.2			836.50	13.02	V	0.9	0.6	12.69	38.5	-25.8		
	836.50	21.36	H	0.9	1.1	21.52	38.5	-17.0			836.50	19.94	H	0.9	1.1	20.10	38.5	-18.4		
High Ch										High Ch										
	848.30	14.27	V	1.0	0.5	13.80	38.5	-24.7			848.30	13.00	V	1.0	0.5	12.53	38.5	-26.0		
	848.30	21.42	H	1.0	1.1	21.54	38.5	-17.0			848.30	20.15	H	1.0	1.1	20.27	38.5	-18.2		

10.1.5. LTE Band 12

10MHz QPSK										10MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 12 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 12 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
704.00	9.60	V	0.9	1.6	10.29	34.8	-24.5			704.00	8.88	V	0.9	1.6	9.57	34.8	-25.2			
704.00	18.06	H	0.9	1.3	18.48	34.8	-16.3			704.00	16.72	H	0.9	1.3	17.14	34.8	-17.7			
Mid Ch										Mid Ch										
707.50	9.88	V	0.9	1.5	10.54	34.8	-24.3			707.50	8.34	V	0.9	1.5	9.00	34.8	-25.8			
707.50	18.42	H	0.9	1.3	18.84	34.8	-16.0			707.50	17.20	H	0.9	1.3	17.62	34.8	-17.2			
High Ch										High Ch										
711.00	9.42	V	0.9	1.5	10.05	34.8	-24.8			711.00	8.12	V	0.9	1.5	8.75	34.8	-26.1			
711.00	18.42	H	0.9	1.3	18.84	34.8	-16.0			711.00	17.40	H	0.9	1.3	17.82	34.8	-17.0			

5MHz QPSK										5MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 12 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 12 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
701.50	9.72	V	0.9	1.6	10.44	34.8	-24.4			701.50	9.06	V	0.9	1.6	9.78	34.8	-25.0			
701.50	17.36	H	0.9	1.3	17.79	34.8	-17.0			701.50	16.28	H	0.9	1.3	16.71	34.8	-18.1			
Mid Ch										Mid Ch										
707.50	10.06	V	0.9	1.5	10.72	34.8	-24.1			707.50	8.32	V	0.9	1.5	8.98	34.8	-25.8			
707.50	18.65	H	0.9	1.3	19.07	34.8	-15.7			707.50	17.63	H	0.9	1.3	18.05	34.8	-16.8			
High Ch										High Ch										
713.50	8.02	V	0.9	1.5	8.62	34.8	-26.2			713.50	7.22	V	0.9	1.5	7.82	34.8	-27.0			
713.50	18.51	H	0.9	1.3	18.92	34.8	-15.9			713.50	17.64	H	0.9	1.3	18.05	34.8	-16.7			

3MHz QPSK										3MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 12 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 12 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
700.50	16.16	V	0.9	1.6	16.88	34.8	-23.9			700.50	8.79	V	0.9	1.6	9.51	34.8	-25.3			
700.50	17.92	H	0.9	1.3	18.35	34.8	-16.5			700.50	16.76	H	0.9	1.3	17.19	34.8	-17.6			
Mid Ch										Mid Ch										
707.50	11.00	V	0.9	1.5	11.66	34.8	-23.1			707.50	9.51	V	0.9	1.5	10.17	34.8	-24.6			
707.50	18.70	H	0.9	1.3	19.12	34.8	-15.7			707.50	17.68	H	0.9	1.3	18.10	34.8	-16.7			
High Ch										High Ch										
714.50	10.94	V	0.9	1.5	11.54	34.8	-23.3			714.50	9.54	V	0.9	1.5	10.14	34.8	-24.7			
714.50	19.13	H	0.9	1.3	19.54	34.8	-15.3			714.50	17.80	H	0.9	1.3	18.21	34.8	-16.6			

1.4MHz QPSK										1.4MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement										
Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_QPSK Band 12 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										Company: Samsung Project #: 14586572 Date: 1/4/2023 Test Engineer: 27966 PV Configuration: EUT Only Location: Chamber K Mode: LTE_16QAM Band 12 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
699.70	10.80	V	0.9	1.6	11.53	34.8	-23.3			699.70	9.49	V	0.9	1.6	10.22	34.8	-24.6			
699.70	17.77	H	0.9	1.3	18.20	34.8	-16.6			699.70	16.76	H	0.9	1.3	17.19	34.8	-17.6			
Mid Ch										Mid Ch										
707.50	10.31	V	0.9	1.5	10.97	34.8	-23.8			707.50	9.36	V	0.9	1.5	10.02	34.8	-24.8			
707.50	18.46	H	0.9	1.3	18.88	34.8	-15.9			707.50	17.33	H	0.9	1.3	17.75	34.8	-17.1			
High Ch										High Ch										
715.30	10.31	V	0.9	1.5	10.90	34.8	-23.9			715.30	9.61	V	0.9	1.5	10.20	34.8	-24.6			
715.30	19.08	H	0.9	1.3	19.49	34.8	-15.3			715.30	17.75	H	0.9	1.3	18.16	34.8	-16.6			

10.1.6. LTE Band 13

10MHz QPSK										10MHz 16QAM									
Company: Samsung					Company: Samsung					Company: Samsung					Company: Samsung				
Project #: 14586572					Project #: 14586572					Project #: 14586572					Project #: 14586572				
Date: 1/5/2023					Date: 1/5/2023					Date: 1/5/2023					Date: 1/5/2023				
Test Engineer: 39005 RA					Test Engineer: 39005 RA					Test Engineer: 39005 RA					Test Engineer: 39005 RA				
Configuration: EUT Only					Configuration: EUT Only					Configuration: EUT Only					Configuration: EUT Only				
Location: Chamber K					Location: Chamber K					Location: Chamber K					Location: Chamber K				
Mode: LTE_QPSK Band 13 Fundamentals, 10MHz Bandwidth					Mode: LTE_16QAM Band 13 Fundamentals, 10MHz Bandwidth					Mode: LTE_16QAM Band 13 Fundamentals, 10MHz Bandwidth					Mode: LTE_16QAM Band 13 Fundamentals, 10MHz Bandwidth				
Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604										Test Equipment: Receiving: Hybrid 80813, and Chamber K SMA Cables Substitution: Dipole T273 89477, N-Type Coax Cable PRE0195604									
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Low Ch										Low Ch									
Mid Ch										Mid Ch									
782.00	11.43	V	0.9	0.9	11.46	34.8	-23.3			782.00	9.74	V	0.9	0.9	9.77	34.8	-25.0		
782.00	18.31	H	0.9	1.2	18.57	34.8	-16.2			782.00	16.74	H	0.9	1.2	17.00	34.8	-17.8		
High Ch										High Ch									
5MHz QPSK										5MHz 16QAM									
UL Verification Services, Inc. High Frequency Substitution Measurement										UL Verification Services, Inc. High Frequency Substitution Measurement									
Company: Samsung					Company: Samsung					Company: Samsung					Company: Samsung				
Project #: 14586572					Project #: 14586572					Project #: 14586572					Project #: 14586572				
Date: 1/5/2023					Date: 1/5/2023					Date: 1/5/2023					Date: 1/5/2023				
Test Engineer: 39005 RA					Test Engineer: 39005 RA					Test Engineer: 39005 RA					Test Engineer: 39005 RA				
Configuration: EUT Only					Configuration: EUT Only					Configuration: EUT Only					Configuration: EUT Only				
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Mode: LTE_QPSK Band 13 Fundamentals, 5MHz Bandwidth					Mode: LTE_16QAM Band 13 Fundamentals, 5MHz Bandwidth					Mode: LTE_16QAM Band 13 Fundamentals, 5MHz Bandwidth					Mode: LTE_16QAM Band 13 Fundamentals, 5MHz Bandwidth				
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Low Ch										Low Ch									
Mid Ch										Mid Ch									
779.50	11.43	V	0.9	1.0	11.48	34.8	-23.3			779.50	10.15	V	0.9	1.0	10.20	34.8	-24.6		
779.50	18.75	H	0.9	1.2	19.02	34.8	-15.8			779.50	17.81	H	0.9	1.2	18.08	34.8	-16.7		
High Ch										High Ch									
782.00	11.63	V	0.9	0.9	11.96	34.8	-23.1			782.00	9.98	V	0.9	0.9	10.01	34.8	-24.8		
782.00	18.63	H	0.9	1.2	18.99	34.8	-15.9			782.00	17.22	H	0.9	1.2	17.48	34.8	-17.3		
784.50	11.41	V	0.9	0.9	11.42	34.8	-23.4			784.50	9.97	V	0.9	0.9	9.98	34.8	-24.8		
784.50	18.54	H	0.9	1.2	18.79	34.8	-16.0			784.50	17.32	H	0.9	1.2	17.57	34.8	-17.2		

10.1.7. LTE Band 26 (FCC PART 90S)

15MHz QPSK										15MHz 16QAM																																																																																																																																																																																													
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816.50	11.03	V	0.9	0.7	10.83	38.5	-27.7	90S																																																																																																																																																																																															
816.50	17.82	H	0.9	1.1	18.02	38.5	-20.5	90S																																																																																																																																																																																															
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819.00	11.88	V	0.9	0.6	11.58	38.5	-26.9	90S																																																																																																																																																																																															
819.00	18.93	H	0.9	1.1	19.13	38.5	-19.4	90S																																																																																																																																																																																															
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