

LTE Band2 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
16QAM, CH18900 / 1880MHz, Bandwidth 1.4MHz							
1880	H	2.34	1.07	4.61	5.89	33	-27.11
1880	V	3.22	1.07	4.61	6.77	33	-26.23
16QAM, CH18900 / 1880MHz, Bandwidth 3MHz							
1880	H	1.92	1.07	4.59	5.44	33	-27.56
1880	V	3.06	1.07	4.59	6.58	33	-26.42
16QAM, CH18900 / 1880MHz, Bandwidth 5MHz							
1880	H	1.89	1.07	4.56	5.38	33	-27.62
1880	V	3.50	1.07	4.56	6.99	33	-26.01
16QAM, CH18900 / 1880MHz, Bandwidth 10MHz							
1880	H	2.29	1.07	4.56	5.78	33	-27.22
1880	V	3.40	1.07	4.56	6.89	33	-26.11
16QAM, CH18900 / 1880MHz, Bandwidth 15MHz							
1880	H	2.10	1.07	4.56	5.59	33	-27.41
1880	V	3.20	1.07	4.56	6.69	33	-26.31
16QAM, CH18900 / 1880MHz, Bandwidth 20MHz							
1880	H	2.13	1.07	4.56	5.62	33	-27.38
1880	V	3.07	1.07	4.56	6.56	33	-26.44

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band2 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH19193 / 1909.3MHz, Bandwidth 1.4MHz							
1909.3	H	-4.63	1.07	4.61	-1.08	33	-34.08
1909.3	V	-8.75	1.07	4.61	-5.20	33	-38.20
QPSK, CH19185 / 1908.5MHz, Bandwidth 3MHz							
1908.5	H	-6.73	1.07	4.59	-3.21	33	-36.21
1908.5	V	-9.36	1.07	4.59	-5.84	33	-38.84
QPSK, CH19175 / 1907.5MHz, Bandwidth 5MHz							
1907.5	H	-9.18	1.07	4.56	-5.69	33	-38.69
1907.5	V	-10.21	1.07	4.56	-6.72	33	-39.72
QPSK, CH19150 / 1905MHz, Bandwidth 10MHz							
1905	H	-5.80	1.07	4.56	-2.31	33	-35.31
1905	V	-7.71	1.07	4.56	-4.22	33	-37.22
QPSK, CH19125 / 1902.5MHz, Bandwidth 15MHz							
1902.5	H	-4.92	1.07	4.56	-1.43	33	-34.43
1902.5	V	-5.53	1.07	4.56	-2.04	33	-35.04
QPSK, CH19100 / 1900MHz, Bandwidth 20MHz							
1900	H	-4.25	1.07	4.56	-0.76	33	-33.76
1900	V	-4.70	1.07	4.56	-1.21	33	-34.21

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band2 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
16QAM, CH19193 / 1909.3MHz, Bandwidth 1.4MHz							
1909.3	H	-5.56	1.07	4.61	-2.01	33	-35.01
1909.3	V	-9.67	1.07	4.61	-6.12	33	-39.12
16QAM, CH19185 / 1908.5MHz, Bandwidth 3MHz							
1908.5	H	-7.71	1.07	4.59	-4.19	33	-37.19
1908.5	V	-9.94	1.07	4.59	-6.42	33	-39.42
16QAM, CH19175 / 1907.5MHz, Bandwidth 5MHz							
1907.5	H	-9.97	1.07	4.56	-6.48	33	-39.48
1907.5	V	-11.08	1.07	4.56	-7.59	33	-40.59
16QAM, CH19150 / 1905MHz, Bandwidth 10MHz							
1905	H	-6.90	1.07	4.56	-3.41	33	-36.41
1905	V	-8.87	1.07	4.56	-5.38	33	-38.38
16QAM, CH19125 / 1902.5MHz, Bandwidth 15MHz							
1902.5	H	-6.08	1.07	4.56	-2.59	33	-35.59
1902.5	V	-6.60	1.07	4.56	-3.11	33	-36.11
16QAM, CH19100 / 1900MHz, Bandwidth 20MHz							
1900	H	-5.38	1.07	4.56	-1.89	33	-34.89
1900	V	-5.88	1.07	4.56	-2.39	33	-35.39

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band4 (Low Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH19957 / 1710.7MHz, Bandwidth 1.4MHz							
1710.7	H	9.89	1.10	4.92	13.70	30	-16.30
1710.7	V	6.55	1.10	4.92	10.36	30	-19.64
QPSK, CH19965 / 1711.5MHz, Bandwidth 3MHz							
1711.5	H	9.96	1.10	4.92	13.77	30	-16.23
1711.5	V	6.40	1.10	4.92	10.21	30	-19.79
QPSK, CH19975 / 1712.5MHz, Bandwidth 5MHz							
1712.5	H	10.04	1.10	4.92	13.85	30	-16.15
1712.5	V	6.35	1.10	4.92	10.16	30	-19.84
QPSK, CH20000 / 1715MHz, Bandwidth 10MHz							
1715	H	9.86	1.10	4.92	13.67	30	-16.33
1715	V	6.30	1.10	4.92	10.11	30	-19.89
QPSK, CH20025 / 1717.5MHz, Bandwidth 15MHz							
1717.5	H	10.22	1.10	4.92	14.03	30	-15.97
1717.5	V	5.54	1.10	4.92	9.35	30	-20.65
QPSK, CH20050 / 1720MHz, Bandwidth 20MHz							
1720	H	10.57	1.10	4.92	14.38	30	-15.62
1720	V	5.35	1.10	4.92	9.16	30	-20.84

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band4 (Low Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
16QAM, CH19957 / 1710.7MHz, Bandwidth 1.4MHz							
1710.7	H	8.75	1.10	4.92	12.56	30	-17.44
1710.7	V	5.41	1.10	4.92	9.22	30	-20.78
16QAM, CH19965 / 1711.5MHz, Bandwidth 3MHz							
1711.5	H	8.82	1.10	4.92	12.63	30	-17.37
1711.5	V	5.32	1.10	4.92	9.13	30	-20.87
16QAM, CH19975 / 1712.5MHz, Bandwidth 5MHz							
1712.5	H	8.94	1.10	4.92	12.75	30	-17.25
1712.5	V	5.22	1.10	4.92	9.03	30	-20.97
16QAM, CH20000 / 1715MHz, Bandwidth 10MHz							
1715	H	8.67	1.10	4.92	12.48	30	-17.52
1715	V	5.22	1.10	4.92	9.03	30	-20.97
16QAM, CH20025 / 1717.5MHz, Bandwidth 15MHz							
1717.5	H	9.37	1.10	4.92	13.18	30	-16.82
1717.5	V	4.40	1.10	4.92	8.21	30	-21.79
16QAM, CH20050 / 1720MHz, Bandwidth 20MHz							
1720	H	9.30	1.10	4.92	13.11	30	-16.89
1720	V	4.24	1.10	4.92	8.05	30	-21.95

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band4 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20175 /1732.5MHz, Bandwidth 1.4MHz							
1732.5	H	10.55	1.11	4.86	14.30	30	-15.70
1732.5	V	4.58	1.11	4.86	8.33	30	-21.67
QPSK, CH20175 /1732.5MHz, Bandwidth 3MHz							
1732.5	H	10.40	1.11	4.86	14.15	30	-15.85
1732.5	V	4.36	1.11	4.86	8.11	30	-21.89
QPSK, CH20175 /1732.5MHz, Bandwidth 5MHz							
1732.5	H	10.44	1.11	4.86	14.19	30	-15.81
1732.5	V	4.16	1.11	4.86	7.91	30	-22.09
QPSK, CH20175 /1732.5MHz, Bandwidth 10MHz							
1732.5	H	10.46	1.11	4.86	14.21	30	-15.79
1732.5	V	4.28	1.11	4.86	8.03	30	-21.97
QPSK, CH20175 /1732.5MHz, Bandwidth 15MHz							
1732.5	H	10.41	1.11	4.86	14.16	30	-15.84
1732.5	V	4.36	1.11	4.86	8.11	30	-21.89
QPSK, CH20175 /1732.5MHz, Bandwidth 20MHz							
1732.5	H	10.52	1.11	4.86	14.27	30	-15.73
1732.5	V	4.41	1.11	4.86	8.16	30	-21.84

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band4 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
16QAM, CH20175 /1732.5MHz, Bandwidth 1.4MHz							
1732.5	H	9.46	1.11	4.86	13.21	30	-16.79
1732.5	V	3.49	1.11	4.86	7.24	30	-22.76
16QAM, CH20175 /1732.5MHz, Bandwidth 3MHz							
1732.5	H	9.33	1.11	4.86	13.08	30	-16.92
1732.5	V	3.32	1.11	4.86	7.07	30	-22.93
16QAM, CH20175 /1732.5MHz, Bandwidth 5MHz							
1732.5	H	9.29	1.11	4.86	13.04	30	-16.96
1732.5	V	3.13	1.11	4.86	6.88	30	-23.12
16QAM, CH20175 /1732.5MHz, Bandwidth 10MHz							
1732.5	H	9.36	1.11	4.86	13.11	30	-16.89
1732.5	V	3.37	1.11	4.86	7.12	30	-22.88
16QAM, CH20175 /1732.5MHz, Bandwidth 15MHz							
1732.5	H	9.29	1.11	4.86	13.04	30	-16.96
1732.5	V	3.33	1.11	4.86	7.08	30	-22.92
16QAM, CH20175 /1732.5MHz, Bandwidth 20MHz							
1732.5	H	9.36	1.11	4.86	13.11	30	-16.89
1732.5	V	3.30	1.11	4.86	7.05	30	-22.95

NOTES:

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SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band4 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20393 / 1754.3MHz, Bandwidth 1.4MHz							
1754.3	H	8.88	1.11	4.81	12.58	30	-17.42
1754.3	V	3.81	1.11	4.81	7.51	30	-22.49
QPSK, CH20385 / 1753.5MHz, Bandwidth 3MHz							
1753.5	H	8.74	1.11	4.81	12.44	30	-17.56
1753.5	V	3.72	1.11	4.81	7.42	30	-22.58
QPSK, CH20375 / 1752.5MHz, Bandwidth 5MHz							
1752.5	H	8.99	1.11	4.81	12.69	30	-17.31
1752.5	V	3.63	1.11	4.81	7.33	30	-22.67
QPSK, CH20350 / 1750MHz, Bandwidth 10MHz							
1750	H	9.18	1.11	4.81	12.88	30	-17.12
1750	V	3.71	1.11	4.81	7.41	30	-22.59
QPSK, CH20325 / 1747.5MHz, Bandwidth 15MHz							
1747.5	H	9.35	1.11	4.81	13.05	30	-16.95
1747.5	V	3.85	1.11	4.81	7.55	30	-22.45
QPSK, CH20300 / 1745MHz, Bandwidth 20MHz							
1745	H	9.48	1.11	4.81	13.18	30	-16.82
1745	V	4.18	1.11	4.81	7.88	30	-22.12

NOTES:

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- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band4 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
16QAM, CH20393 / 1754.3MHz, Bandwidth 1.4MHz							
1754.3	H	7.67	1.11	4.81	11.37	30	-18.63
1754.3	V	2.74	1.11	4.81	6.44	30	-23.56
16QAM, CH20385 / 1753.5MHz, Bandwidth 3MHz							
1753.5	H	7.59	1.11	4.81	11.29	30	-18.71
1753.5	V	2.58	1.11	4.81	6.28	30	-23.72
16QAM, CH20375 / 1752.5MHz, Bandwidth 5MHz							
1752.5	H	7.85	1.11	4.81	11.55	30	-18.45
1752.5	V	2.58	1.11	4.81	6.28	30	-23.72
16QAM, CH20350 / 1750MHz, Bandwidth 10MHz							
1750	H	8.03	1.11	4.81	11.73	30	-18.27
1750	V	2.58	1.11	4.81	6.28	30	-23.72
16QAM, CH20325 / 1747.5MHz, Bandwidth 15MHz							
1747.5	H	8.48	1.11	4.81	12.18	30	-17.82
1747.5	V	2.77	1.11	4.81	6.47	30	-23.53
16QAM, CH20300 / 1745MHz, Bandwidth 20MHz							
1745	H	8.37	1.11	4.81	12.07	30	-17.93
1745	V	3.07	1.11	4.81	6.77	30	-23.23

NOTES:

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SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band5 (Low Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	ERP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20407 / 824.7MHz, Bandwidth 1.4MHz							
824.7	H	7.02	0.88	7.53	13.67	38.5	-24.83
824.7	V	6.24	0.88	7.53	12.89	38.5	-25.61
QPSK, CH20415 / 825.5MHz, Bandwidth 3MHz							
825.5	H	7.31	0.88	7.53	13.96	38.5	-24.54
825.5	V	6.29	0.88	7.53	12.94	38.5	-25.56
QPSK, CH20425 / 826.5MHz, Bandwidth 5MHz							
826.5	H	7.54	0.88	7.53	14.19	38.5	-24.31
826.5	V	7.02	0.88	7.53	13.67	38.5	-24.83
QPSK, CH20450 / 829MHz, Bandwidth 10MHz							
829	H	8.21	0.88	7.53	14.86	38.5	-23.64
829	V	7.51	0.88	7.53	14.16	38.5	-24.34
16QAM, CH20407 / 824.7MHz, Bandwidth 1.4MHz							
824.7	H	5.90	0.88	7.53	12.55	38.5	-25.95
824.7	V	4.99	0.88	7.53	11.64	38.5	-26.86
16QAM, CH20415 / 825.5MHz, Bandwidth 3MHz							
825.5	H	6.13	0.88	7.53	12.78	38.5	-25.72
825.5	V	5.17	0.88	7.53	11.82	38.5	-26.68
16QAM, CH20425 / 826.5MHz, Bandwidth 5MHz							
826.5	H	6.39	0.88	7.53	13.04	38.5	-25.46
826.5	V	5.90	0.88	7.53	12.55	38.5	-25.95
16QAM, CH20450 / 829MHz, Bandwidth 10MHz							
829	H	7.12	0.88	7.53	13.77	38.5	-24.73
829	V	6.42	0.88	7.53	13.07	38.5	-25.43

NOTES:

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3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band5 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	ERP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20525 / 836.5MHz, Bandwidth 1.4MHz							
836.5	H	6.97	0.88	7.53	13.62	38.5	-24.88
836.5	V	8.43	0.88	7.53	15.08	38.5	-23.42
QPSK, CH20525 / 836.5MHz, Bandwidth 3MHz							
836.5	H	6.80	0.88	7.53	13.45	38.5	-25.05
836.5	V	8.23	0.88	7.53	14.88	38.5	-23.62
QPSK, CH20525 / 836.5MHz, Bandwidth 5MHz							
836.5	H	6.54	0.88	7.53	13.19	38.5	-25.31
836.5	V	7.26	0.88	7.53	13.91	38.5	-24.59
QPSK, CH20525 / 836.5MHz, Bandwidth 10MHz							
836.5	H	7.02	0.88	7.53	13.67	38.5	-24.83
836.5	V	8.02	0.88	7.53	14.67	38.5	-23.83
16QAM, CH20525 / 836.5MHz, Bandwidth 1.4MHz							
836.5	H	5.92	0.88	7.53	12.57	38.5	-25.93
836.5	V	7.36	0.88	7.53	14.01	38.5	-24.49
16QAM, CH20525 / 836.5MHz, Bandwidth 3MHz							
836.5	H	5.72	0.88	7.53	12.37	38.5	-26.13
836.5	V	7.11	0.88	7.53	13.76	38.5	-24.74
16QAM, CH20525 / 836.5MHz, Bandwidth 5MHz							
836.5	H	5.46	0.88	7.53	12.11	38.5	-26.39
836.5	V	6.22	0.88	7.53	12.87	38.5	-25.63
16QAM, CH20525 / 836.5MHz, Bandwidth 10MHz							
836.5	H	5.94	0.88	7.53	12.59	38.5	-25.91
836.5	V	6.93	0.88	7.53	13.58	38.5	-24.92

NOTES:

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SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
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- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band5 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	ERP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20643 / 848.3MHz, Bandwidth 1.4MHz							
848.3	H	4.97	0.88	7.54	11.63	38.5	-26.87
848.3	V	6.72	0.88	7.54	13.38	38.5	-25.12
QPSK, CH20635 / 847.5MHz, Bandwidth 3MHz							
847.5	H	4.93	0.88	7.54	11.59	38.5	-26.91
847.5	V	6.62	0.88	7.54	13.28	38.5	-25.22
QPSK, CH20625 / 846.5MHz, Bandwidth 5MHz							
846.5	H	4.91	0.88	7.54	11.57	38.5	-26.93
846.5	V	6.55	0.88	7.54	13.21	38.5	-25.29
QPSK, CH20600 / 844MHz, Bandwidth 10MHz							
844	H	6.68	0.88	7.54	13.34	38.5	-25.16
844	V	7.05	0.88	7.54	13.71	38.5	-24.79
16QAM, CH20643 / 848.3MHz, Bandwidth 1.4MHz							
848.3	H	3.92	0.88	7.54	10.58	38.5	-27.92
848.3	V	5.59	0.88	7.54	12.25	38.5	-26.25
16QAM, CH20635 / 847.5MHz, Bandwidth 3MHz							
847.5	H	3.82	0.88	7.54	10.48	38.5	-28.02
847.5	V	5.52	0.88	7.54	12.18	38.5	-26.32
16QAM, CH20625 / 846.5MHz, Bandwidth 5MHz							
846.5	H	3.81	0.88	7.54	10.47	38.5	-28.03
846.5	V	5.49	0.88	7.54	12.15	38.5	-26.35
16QAM, CH20600 / 844MHz, Bandwidth 10MHz							
844	H	joan	0.88	7.54	12.23	38.5	-26.27
844	V	5.89	0.88	7.54	12.55	38.5	-25.95

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band7 (Low Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20775 / 2502.5MHz, Bandwidth 5MHz							
2502.5	H	12.60	1.14	5.64	17.10	33	-15.90
2502.5	V	9.51	1.14	5.64	14.01	33	-18.99
QPSK, CH20800 / 2505MHz, Bandwidth 10MHz							
2505	H	12.53	1.14	5.64	17.03	33	-15.97
2505	V	9.39	1.14	5.64	13.89	33	-19.11
QPSK, CH20825 / 2507.5MHz, Bandwidth 15MHz							
2507.5	H	12.39	1.14	5.64	16.89	33	-16.11
2507.5	V	9.03	1.14	5.64	13.53	33	-19.47
QPSK, CH20850 / 2510MHz, Bandwidth 20MHz							
2510	H	12.48	1.14	5.64	16.98	33	-16.02
2510	V	7.77	1.14	5.64	12.27	33	-20.73
16QAM, CH20775 / 2502.5MHz, Bandwidth 5MHz							
2502.5	H	11.57	1.14	5.64	16.07	33	-16.93
2502.5	V	8.66	1.14	5.64	13.16	33	-19.84
16QAM, CH20800 / 2505MHz, Bandwidth 10MHz							
2505	H	11.68	1.14	5.64	16.18	33	-16.82
2505	V	8.07	1.14	5.64	12.57	33	-20.43
16QAM, CH20825 / 2507.5MHz, Bandwidth 15MHz							
2507.5	H	11.27	1.14	5.64	15.77	33	-17.23
2507.5	V	7.94	1.14	5.64	12.44	33	-20.56
16QAM, CH20850 / 2510MHz, Bandwidth 20MHz							
2510	H	11.35	1.14	5.64	15.85	33	-17.15
2510	V	6.68	1.14	5.64	11.18	33	-21.82

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band7 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH21100 / 2535MHz, Bandwidth 5MHz							
2535	H	9.72	1.15	5.73	14.30	33	-18.70
2535	V	4.52	1.15	5.73	9.10	33	-23.90
QPSK, CH21100 / 2535MHz, Bandwidth 10MHz							
2535	H	9.84	1.15	5.73	14.42	33	-18.58
2535	V	4.49	1.15	5.73	9.07	33	-23.93
QPSK, CH21100 / 2535MHz, Bandwidth 15MHz							
2535	H	10.04	1.15	5.73	14.62	33	-18.38
2535	V	4.44	1.15	5.73	9.02	33	-23.98
QPSK, CH21100 / 2535MHz, Bandwidth 20MHz							
2535	H	9.89	1.15	5.73	14.47	33	-18.53
2535	V	4.51	1.15	5.73	9.09	33	-23.91
16QAM, CH21100 / 2535MHz, Bandwidth 5MHz							
2535	H	8.60	1.15	5.73	13.18	33	-19.82
2535	V	4.41	1.15	5.73	8.99	33	-24.01
16QAM, CH21100 / 2535MHz, Bandwidth 10MHz							
2535	H	8.70	1.15	5.73	13.28	33	-19.72
2535	V	3.58	1.15	5.73	8.16	33	-24.84
16QAM, CH21100 / 2535MHz, Bandwidth 15MHz							
2535	H	8.95	1.15	5.73	13.53	33	-19.47
2535	V	4.31	1.15	5.73	8.89	33	-24.11
16QAM, CH21100 / 2535MHz, Bandwidth 20MHz							
2535	H	8.71	1.15	5.73	13.29	33	-19.71
2535	V	4.25	1.15	5.73	8.83	33	-24.17

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band7 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH21425 / 2567.5MHz, Bandwidth 5MHz							
2567.5	H	10.20	1.15	5.78	14.83	33	-18.17
2567.5	V	4.28	1.15	5.78	8.91	33	-24.09
QPSK, CH21400 / 2565MHz, Bandwidth 10MHz							
2565	H	10.16	1.15	5.78	14.79	33	-18.21
2565	V	4.04	1.15	5.78	8.67	33	-24.33
QPSK, CH21375 / 2562.5MHz, Bandwidth 15MHz							
2562.5	H	10.19	1.15	5.78	14.82	33	-18.18
2562.5	V	3.91	1.15	5.78	8.54	33	-24.46
QPSK, CH21350 / 2560MHz, Bandwidth 20MHz							
2560	H	10.44	1.15	5.78	15.07	33	-17.93
2560	V	3.62	1.15	5.78	8.25	33	-24.75
16QAM, CH21425 / 2567.5MHz, Bandwidth 5MHz							
2567.5	H	9.14	1.15	5.78	13.77	33	-19.23
2567.5	V	3.22	1.15	5.78	7.85	33	-25.15
16QAM, CH21400 / 2565MHz, Bandwidth 10MHz							
2565	H	9.03	1.15	5.78	13.66	33	-19.34
2565	V	2.96	1.15	5.78	7.59	33	-25.41
16QAM, CH21375 / 2562.5MHz, Bandwidth 15MHz							
2562.5	H	9.14	1.15	5.78	13.77	33	-19.23
2562.5	V	2.79	1.15	5.78	7.42	33	-25.58
16QAM, CH21350 / 2560MHz, Bandwidth 20MHz							
2560	H	9.49	1.15	5.78	14.12	33	-18.88
2560	V	2.56	1.15	5.78	7.19	33	-25.81

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band17 (Low Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	ERP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH23755 / 706.5MHz, Bandwidth 5MHz							
706.5	H	10.92	0.84	7.43	17.51	34.8	-17.29
706.5	V	0.83	0.84	7.43	7.42	34.8	-27.38
QPSK, CH23780 / 709MHz, Bandwidth 10MHz							
709	H	9.70	0.84	7.43	16.29	34.8	-18.51
709	V	0.37	0.84	7.43	6.96	34.8	-27.84
16QAM, CH23755 / 706.5MHz, Bandwidth 5MHz							
706.5	H	9.78	0.84	7.43	16.37	34.8	-18.43
706.5	V	-0.26	0.84	7.43	6.33	34.8	-28.47
16QAM, CH23780 / 709MHz, Bandwidth 10MHz							
709	H	8.53	0.84	7.43	15.12	34.8	-19.68
709	V	-0.70	0.84	7.43	5.89	34.8	-28.91

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band17 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	ERP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH23790 / 710MHz, Bandwidth 5MHz							
710	H	10.01	0.84	7.45	16.62	34.8	-18.18
710	V	0.20	0.84	7.45	6.81	34.8	-27.99
QPSK, CH23790 / 710MHz, Bandwidth 10MHz							
710	H	10.01	0.84	7.45	16.62	34.8	-18.18
710	V	0.93	0.84	7.45	7.54	34.8	-27.26
16QAM, CH23790 / 710MHz, Bandwidth 5MHz							
710	H	8.87	0.84	7.45	15.48	34.8	-19.32
710	V	-0.92	0.84	7.45	5.69	34.8	-29.11
16QAM, CH23790 / 710MHz, Bandwidth 10MHz							
710	H	8.92	0.84	7.45	15.53	34.8	-19.27
710	V	-0.20	0.84	7.45	6.41	34.8	-28.39

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band17 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	ERP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH23825 / 713.5MHz, Bandwidth 5MHz							
713.5	H	9.88	0.84	7.48	16.52	34.8	-18.28
713.5	V	0.55	0.84	7.48	7.19	34.8	-27.61
QPSK, CH23800 / 711MHz, Bandwidth 10MHz							
711	H	9.94	0.84	7.48	16.58	34.8	-18.22
711	V	0.60	0.84	7.48	7.24	34.8	-27.56
16QAM, CH23825 / 713.5MHz, Bandwidth 5MHz							
713.5	H	8.78	0.84	7.48	15.42	34.8	-19.38
713.5	V	-0.61	0.84	7.48	6.03	34.8	-28.77
16QAM, CH23800 / 711MHz, Bandwidth 10MHz							
711	H	8.75	0.84	7.48	15.39	34.8	-19.41
711	V	-0.47	0.84	7.48	6.17	34.8	-28.63

NOTES:

- ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
- This unit was tested with its standard adapter.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band41 (Low Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH40265 / 2557.5MHz, Bandwidth 5MHz							
2557.5	H	8.22	1.14	5.60	12.68	33	-20.32
2557.5	V	4.02	1.14	5.60	8.48	33	-24.52
QPSK, CH40290 / 2560MHz, Bandwidth 10MHz							
2560	H	8.07	1.14	5.60	12.53	33	-20.47
2560	V	4.76	1.14	5.60	9.22	33	-23.78
QPSK, CH40315 / 2562.5MHz, Bandwidth 15MHz							
2562.5	H	8.03	1.14	5.60	12.49	33	-20.51
2562.5	V	5.37	1.14	5.60	9.83	33	-23.17
QPSK, CH40340 / 2565MHz, Bandwidth 20MHz							
2565	H	7.66	1.14	5.60	12.12	33	-20.88
2565	V	1.99	1.14	5.60	6.45	33	-26.55
16QAM, CH40265 / 2557.5MHz, Bandwidth 5MHz							
2557.5	H	7.27	1.14	5.60	11.73	33	-21.27
2557.5	V	3.09	1.14	5.60	7.55	33	-25.45
16QAM, CH40290 / 2560MHz, Bandwidth 10MHz							
2560	H	6.96	1.14	5.60	11.42	33	-21.58
2560	V	3.83	1.14	5.60	8.29	33	-24.71
16QAM, CH40315 / 2562.5MHz, Bandwidth 15MHz							
2562.5	H	6.88	1.14	5.60	11.34	33	-21.66
2562.5	V	4.31	1.14	5.60	8.77	33	-24.23
16QAM, CH40340 / 2565MHz, Bandwidth 20MHz							
2565	H	6.63	1.14	5.60	11.09	33	-21.91
2565	V	1.20	1.14	5.60	5.66	33	-27.34

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band41 (Mid Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH40740 / 2605MHz, Bandwidth 5MHz							
2605	H	5.93	1.14	5.87	10.66	33	-22.34
2605	V	2.19	1.14	5.87	6.92	33	-26.08
QPSK, CH40740 / 2605MHz, Bandwidth 10MHz							
2605	H	5.84	1.14	5.87	10.57	33	-22.43
2605	V	2.22	1.14	5.87	6.95	33	-26.05
QPSK, CH40740 / 2605MHz, Bandwidth 15MHz							
2605	H	5.79	1.14	5.87	10.52	33	-22.48
2605	V	2.26	1.14	5.87	6.99	33	-26.01
QPSK, CH40740 / 2605MHz, Bandwidth 20MHz							
2605	H	5.75	1.14	5.87	10.48	33	-22.52
2605	V	2.33	1.14	5.87	7.06	33	-25.94
16QAM, CH40740 / 2605MHz, Bandwidth 5MHz							
2605	H	4.80	1.14	5.87	9.53	33	-23.47
2605	V	1.14	1.14	5.87	5.87	33	-27.13
16QAM, CH40740 / 2605MHz, Bandwidth 10MHz							
2605	H	4.75	1.14	5.87	9.48	33	-23.52
2605	V	1.16	1.14	5.87	5.89	33	-27.11
16QAM, CH40740 / 2605MHz, Bandwidth 15MHz							
2605	H	4.70	1.14	5.87	9.43	33	-23.57
2605	V	1.13	1.14	5.87	5.86	33	-27.14
16QAM, CH40740 / 2605MHz, Bandwidth 20MHz							
2605	H	4.69	1.14	5.87	9.42	33	-23.58
2605	V	1.72	1.14	5.87	6.45	33	-26.55

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

LTE Band41 (High Channel)							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH41215 / 2652.5MHz, Bandwidth 5MHz							
2652.5	H	5.42	1.15	5.78	10.05	33	-22.95
2652.5	V	-0.65	1.15	5.78	3.98	33	-29.02
QPSK, CH41190 / 2650MHz, Bandwidth 10MHz							
2650	H	5.38	1.15	5.78	10.01	33	-22.99
2650	V	-0.20	1.15	5.78	4.43	33	-28.57
QPSK, CH41165 / 2647.5MHz, Bandwidth 15MHz							
2647.5	H	5.35	1.15	5.78	9.98	33	-23.02
2647.5	V	-0.32	1.15	5.78	4.31	33	-28.69
QPSK, CH41140 / 2645MHz, Bandwidth 20MHz							
2645	H	5.20	1.15	5.78	9.83	33	-23.17
2645	V	-0.36	1.15	5.78	4.27	33	-28.73
16QAM, CH41215 / 2652.5MHz, Bandwidth 5MHz							
2652.5	H	4.48	1.15	5.78	9.11	33	-23.89
2652.5	V	-1.64	1.15	5.78	2.99	33	-30.01
16QAM, CH41190 / 2650MHz, Bandwidth 10MHz							
2650	H	4.68	1.15	5.78	9.31	33	-23.69
2650	V	-1.34	1.15	5.78	3.29	33	-29.71
16QAM, CH41165 / 2647.5MHz, Bandwidth 15MHz							
2647.5	H	4.30	1.15	5.78	8.93	33	-24.07
2647.5	V	-1.19	1.15	5.78	3.44	33	-29.56
16QAM, CH41140 / 2645MHz, Bandwidth 20MHz							
2645	H	4.13	1.15	5.78	8.76	33	-24.24
2645	V	-1.20	1.15	5.78	3.43	33	-29.57

NOTES:

1. ERP (dBm) / EIRP (dBm)=
SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd/dBi)
2. This unit was tested with its standard adapter.
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning.

Radiated Spurious Emission

LTE Band2							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH18700 / 1860MHz, Bandwidth 20MHz							
3720	H	-58.03	1.36	7.95	-51.44	-13	-38.44
5580	H	-58.44	1.79	10.10	-50.13	-13	-37.13
7440	H	-62.20	1.72	11.72	-52.20	-13	-39.20
3720	V	-61.32	1.36	7.95	-54.73	-13	-41.73
5580	V	-62.18	1.79	10.10	-53.87	-13	-40.87
7440	V	-63.04	1.72	11.72	-53.04	-13	-40.04
QPSK, CH18900 / 1880MHz, Bandwidth 20MHz							
3760	H	-58.70	1.36	7.95	-52.11	-13	-39.11
5640	H	-55.52	1.79	10.10	-47.21	-13	-34.21
7520	H	-64.39	1.72	11.72	-54.39	-13	-41.39
3760	V	-62.07	1.36	7.95	-55.48	-13	-42.48
5640	V	-62.89	1.79	10.10	-54.58	-13	-41.58
7520	V	-64.31	1.72	11.72	-54.31	-13	-41.31
QPSK, CH19100 / 1900MHz, Bandwidth 20MHz							
3760	H	-58.20	1.36	7.95	-51.61	-13	-38.61
5640	H	-57.47	1.79	10.10	-49.16	-13	-36.16
7520	H	-62.93	1.72	11.72	-52.93	-13	-39.93
3760	V	-61.79	1.36	7.95	-55.20	-13	-42.20
5640	V	-60.77	1.79	10.10	-52.46	-13	-39.46
7520	V	-59.13	1.72	11.72	-49.13	-13	-36.13

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP \text{ or } ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBi)}$

LTE Band4							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20050 / 1720MHz, Bandwidth 20MHz							
3440	H	-63.46	1.33	7.65	-57.14	-13	-44.14
5160	H	-55.99	1.68	9.88	-47.79	-13	-34.79
6880	H	-62.64	1.81	11.15	-53.30	-13	-40.30
3440	V	-60.73	1.33	7.65	-54.41	-13	-41.41
5160	V	-61.00	1.68	9.88	-52.80	-13	-39.80
6880	V	-63.56	1.81	11.15	-54.22	-13	-41.22
QPSK, CH20175 /1732.5MHz, Bandwidth 20MHz							
3465	H	-68.48	1.33	7.65	-62.16	-13	-49.16
5197.5	H	-57.29	1.68	9.88	-49.09	-13	-36.09
6930	H	-62.20	1.81	11.15	-52.86	-13	-39.86
3465	V	-64.58	1.33	7.65	-58.26	-13	-45.26
5197.5	V	-61.71	1.68	9.88	-53.51	-13	-40.51
6930	V	-62.65	1.81	11.15	-53.31	-13	-40.31
QPSK, CH20300 / 1745MHz, Bandwidth 20MHz							
3490	H	-68.19	1.33	7.65	-61.87	-13	-48.87
5235	H	-53.47	1.68	9.88	-45.27	-13	-32.27
6980	H	-62.36	1.81	11.15	-53.02	-13	-40.02
3490	V	-64.33	1.33	7.65	-58.01	-13	-45.01
5235	V	-59.97	1.68	9.88	-51.77	-13	-38.77
6980	V	-62.13	1.81	11.15	-52.79	-13	-39.79

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP \text{ or } ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

LTE Band5							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20450 / 829MHz, Bandwidth 10MHz							
1658	H	-59.76	1.05	5.02	-55.79	-13	-42.79
2487	H	-47.91	1.14	5.64	-43.41	-13	-30.41
3316	H	-52.63	1.32	7.12	-46.83	-13	-33.83
1658	V	-60.43	1.05	5.02	-56.46	-13	-43.46
2487	V	-52.78	1.14	5.64	-48.28	-13	-35.28
3316	V	-55.71	1.32	7.12	-49.91	-13	-36.91
QPSK, CH20525 / 836.5MHz, Bandwidth 10MHz							
1673	H	-56.61	1.05	5.02	-52.64	-13	-39.64
2509.5	H	-46.84	1.14	5.64	-42.34	-13	-29.34
3346	H	-46.24	1.32	7.12	-40.44	-13	-27.44
1673	V	-59.08	1.05	5.02	-55.11	-13	-42.11
2509.5	V	-51.40	1.14	5.64	-46.90	-13	-33.90
3346	V	-49.66	1.32	7.12	-43.86	-13	-30.86
QPSK, CH20600 / 844MHz, Bandwidth 10MHz							
1688	H	-55.35	1.05	5.02	-51.38	-13	-38.38
2532	H	-43.88	1.14	5.64	-39.38	-13	-26.38
3376	H	-46.12	1.32	7.12	-40.32	-13	-27.32
1688	V	-57.39	1.05	5.02	-53.42	-13	-40.42
2532	V	-48.13	1.14	5.64	-43.63	-13	-30.63
3376	V	-47.85	1.32	7.12	-42.05	-13	-29.05

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP \text{ or } ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

LTE Band7							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH20850 / 2510MHz, Bandwidth 20MHz							
5020	H	-64.24	1.52	9.83	-55.93	-13	-42.93
7530	H	-61.45	1.78	11.79	-51.44	-13	-38.44
10040	H	-56.46	2.36	12.40	-46.42	-13	-33.42
5020	V	-60.70	1.52	9.83	-52.39	-13	-39.39
7530	V	-63.34	1.78	11.79	-53.33	-13	-40.33
10040	V	-57.97	2.36	12.40	-47.93	-13	-34.93
QPSK, CH21100 / 2535MHz, Bandwidth 20MHz							
5070	H	-64.61	1.52	9.83	-56.30	-13	-43.30
7605	H	-62.75	1.78	11.79	-52.74	-13	-39.74
10140	H	-58.71	2.36	12.40	-48.67	-13	-35.67
5070	V	-63.65	1.52	9.83	-55.34	-13	-42.34
7605	V	-62.90	1.78	11.79	-52.89	-13	-39.89
10140	V	-60.49	2.36	12.40	-50.45	-13	-37.45
QPSK, CH21350 / 2560MHz, Bandwidth 20MHz							
5120	H	-65.72	1.52	9.83	-57.41	-13	-44.41
7680	H	-62.29	1.78	11.79	-52.28	-13	-39.28
10240	H	-58.28	2.36	12.40	-48.24	-13	-35.24
5120	V	-63.05	1.52	9.83	-54.74	-13	-41.74
7680	V	-62.75	1.78	11.79	-52.74	-13	-39.74
10240	V	-59.81	2.36	12.40	-49.77	-13	-36.77

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP \text{ or } ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

LTE Band17							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH23780 / 709MHz, Bandwidth 10MHz							
1418	H	-36.82	1.01	4.91	-32.92	-13	-19.92
2127	H	-48.79	1.16	4.79	-45.16	-13	-32.16
2836	H	-48.46	1.27	6.47	-43.26	-13	-30.26
1418	V	-44.64	1.01	4.91	-40.74	-13	-27.74
2127	V	-50.53	1.16	4.79	-46.90	-13	-33.90
2836	V	-48.08	1.27	6.47	-42.88	-13	-29.88
QPSK, CH23790 / 710MHz, Bandwidth 10MHz							
1420	H	-37.91	1.01	4.91	-34.01	-13	-21.01
2130	H	-51.84	1.16	4.79	-48.21	-13	-35.21
2840	H	-52.62	1.27	6.47	-47.42	-13	-34.42
1420	V	-46.71	1.01	4.91	-42.81	-13	-29.81
2130	V	-51.86	1.16	4.79	-48.23	-13	-35.23
2840	V	-49.03	1.27	6.47	-43.83	-13	-30.83
QPSK, CH23800 / 711MHz, Bandwidth 10MHz							
1422	H	-37.80	1.01	4.91	-33.90	-13	-20.90
2133	H	-51.43	1.16	4.79	-47.80	-13	-34.80
2844	H	-56.19	1.27	6.47	-50.99	-13	-37.99
1422	V	-46.02	1.01	4.91	-42.12	-13	-29.12
2133	V	-50.27	1.16	4.79	-46.64	-13	-33.64
2844	V	-47.03	1.27	6.47	-41.83	-13	-28.83

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP \text{ or } ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

LTE Band41							
Frequency (MHz)	Ant. Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Ant Gain (dBi)	EIRP Measure (dBm)	Limit (dBm)	Margin (dB)
QPSK, CH40340 / 2565MHz, Bandwidth 20MHz							
5130	H	-65.78	1.68	9.87	-57.59	-25	-32.59
7695	H	-60.79	1.78	11.94	-50.63	-25	-25.63
10260	H	-58.18	2.36	12.40	-48.14	-25	-23.14
5130	V	-64.03	1.68	9.87	-55.84	-25	-30.84
7695	V	-57.93	1.78	11.94	-47.77	-25	-22.77
10260	V	-59.33	2.36	12.40	-49.29	-25	-24.29
QPSK, CH40740 / 2605MHz, Bandwidth 20MHz							
5210	H	-67.76	1.68	9.87	-59.57	-25	-34.57
7815	H	-62.84	1.78	11.94	-52.68	-25	-27.68
10420	H	-58.54	2.36	12.40	-48.50	-25	-23.50
5210	V	-66.90	1.68	9.87	-58.71	-25	-33.71
7815	V	-62.00	1.78	11.94	-51.84	-25	-26.84
10420	V	-59.38	2.36	12.40	-49.34	-25	-24.34
QPSK, CH41140 / 2645MHz, Bandwidth 20MHz							
5290	H	-65.57	1.68	9.87	-57.38	-25	-32.38
7935	H	-62.89	1.78	11.94	-52.73	-25	-27.73
10580	H	-59.63	2.36	12.40	-49.59	-25	-24.59
5290	V	-65.36	1.68	9.87	-57.17	-25	-32.17
7935	V	-61.04	1.78	11.94	-50.88	-25	-25.88
10580	V	-59.85	2.36	12.40	-49.81	-25	-24.81

Note:

- Spurious emissions within 30-1000MHz & Other harmonic were found more than 20dB below limit line.
- $EIRP \text{ or } ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - Cable \text{ Loss (dB)} + Substitute \text{ Antenna Gain (dBi)}$

7.6. Peak-Average Ratio

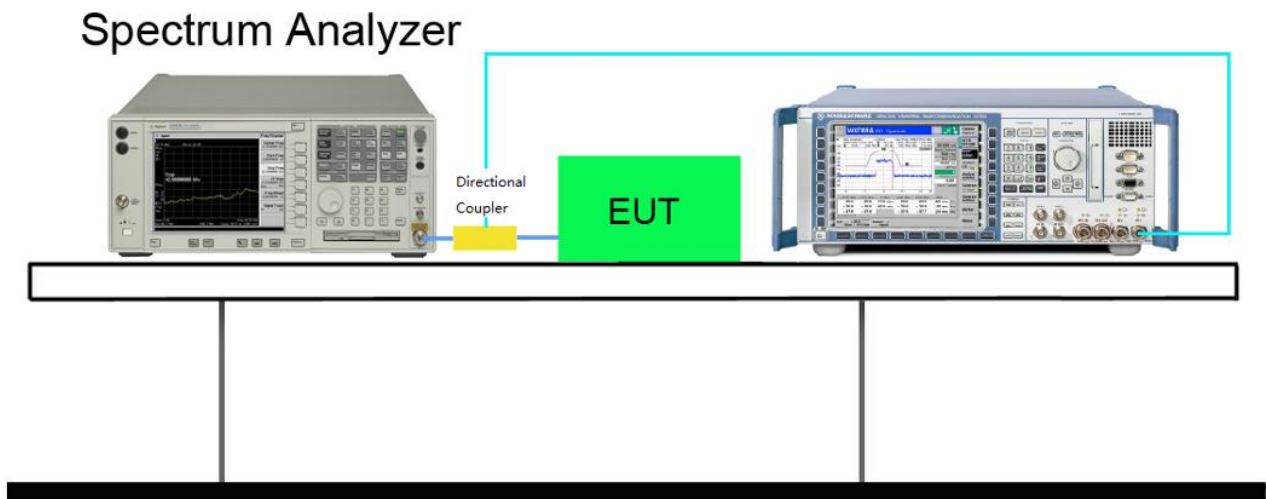
7.6.1 Test Limit

The transmitter's peak-to-average power ratio (PAPR) shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

7.6.2 Test Procedure

KDB 971168 D01v03r01 - Section 5.7 & ANSI/TIA-603-E-2016

7.6.3 Test Setup



7.6.4 Test Result

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 2	QPSK	CH18900/1880MHz	1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass
	16QAM		1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass

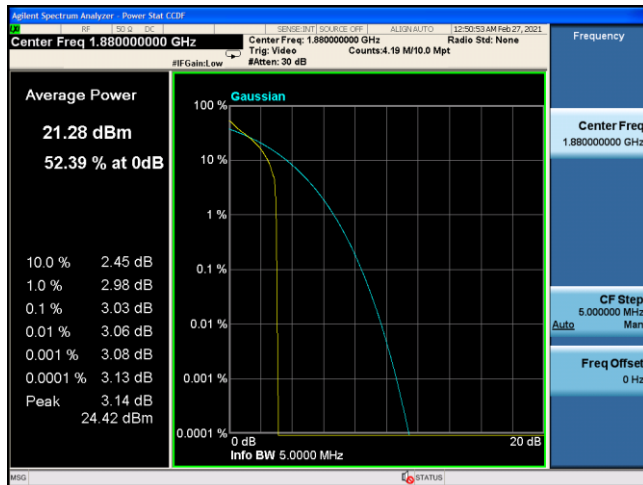
LTE Band 2 QPSK 1.4MHz CH18900 1RB#2



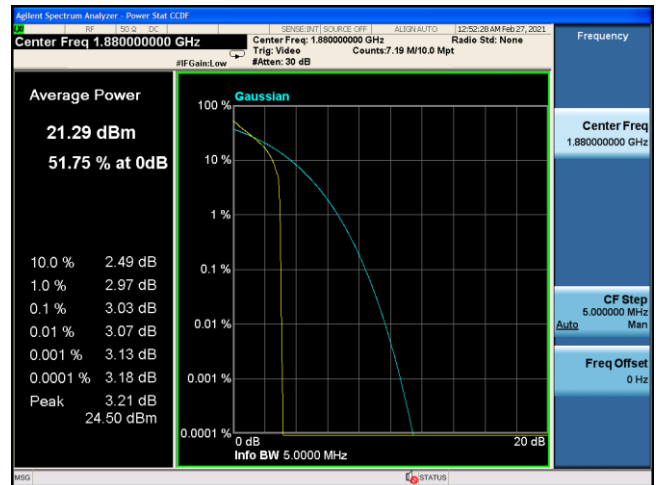
LTE Band 2 QPSK 3MHz CH18900 1RB#7



LTE Band 2 QPSK 5MHz CH18900 1RB#12



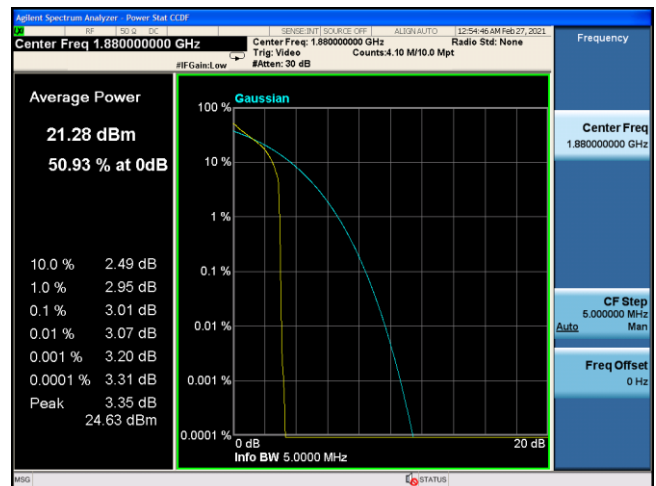
LTE Band 2 QPSK 10MHz CH18900 1RB#25



LTE Band 2 QPSK 15MHz CH18900 1RB#36



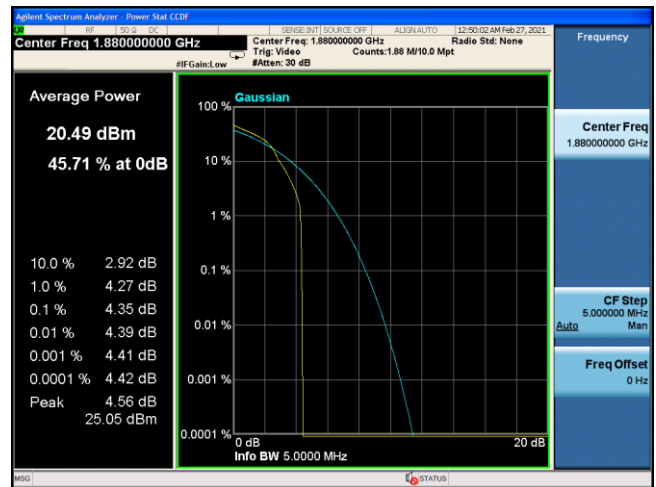
LTE Band 2 QPSK 20MHz CH18900 1RB#49



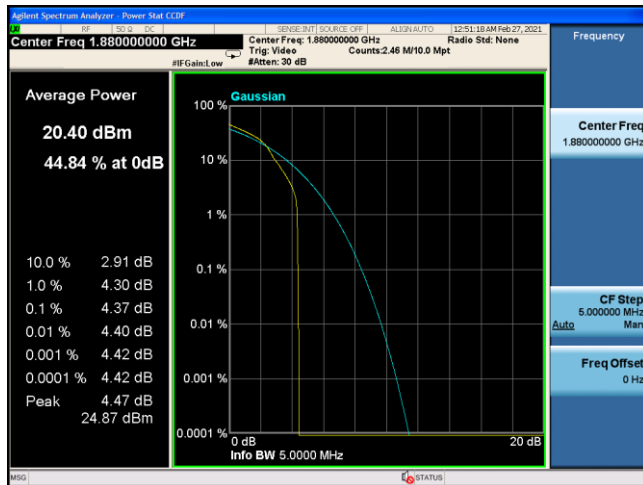
LTE Band 2 16QAM 1.4MHz CH18900 1RB#2



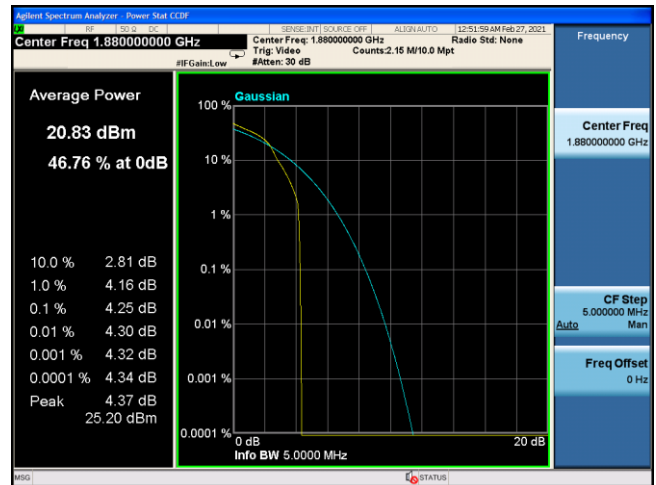
LTE Band 2 16QAM 3MHz CH18900 1RB#7



LTE Band 2 16QAM 5MHz CH18900 1RB#12



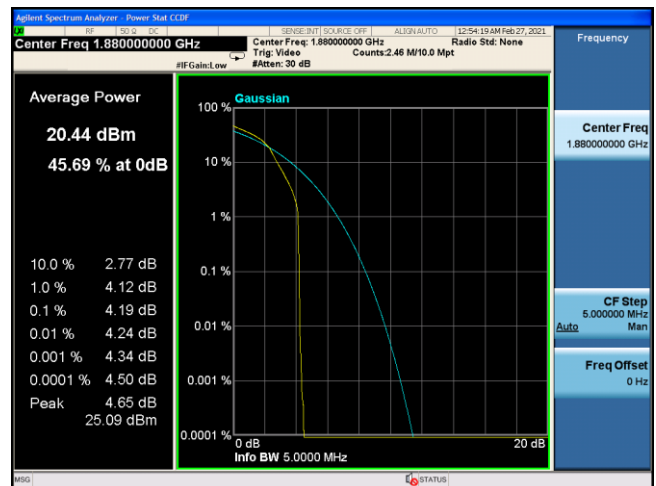
LTE Band 2 16QAM 10MHz CH18900 1RB#25



LTE Band 2 16QAM 15MHz CH18900 1RB#36

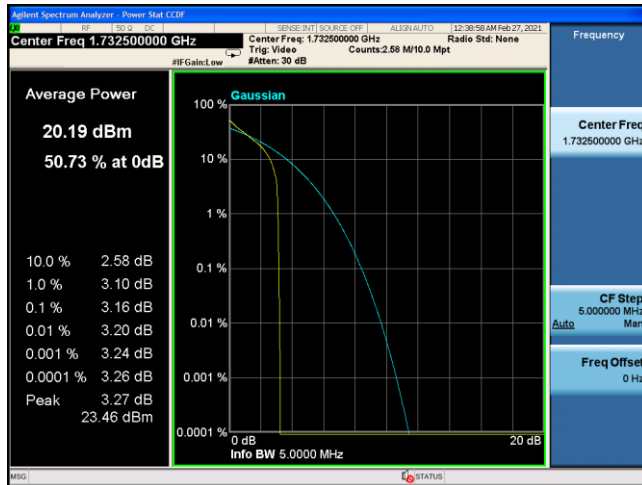


LTE Band 2 16QAM 20MHz CH18900 1RB#49

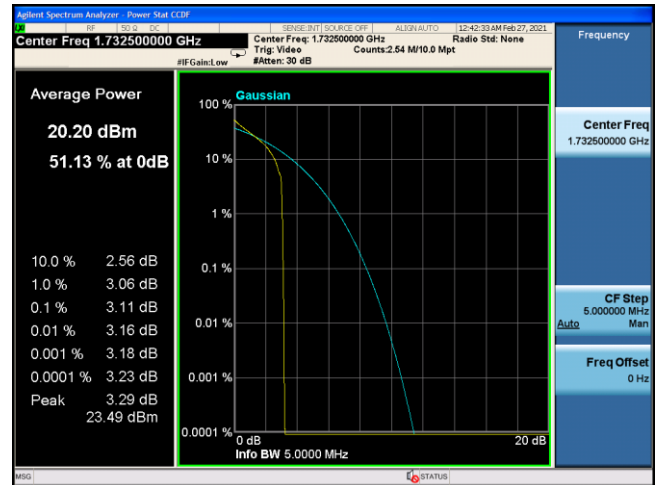


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 4	QPSK	CH20175 / 1732.5MHz	1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass
	16QAM		1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass

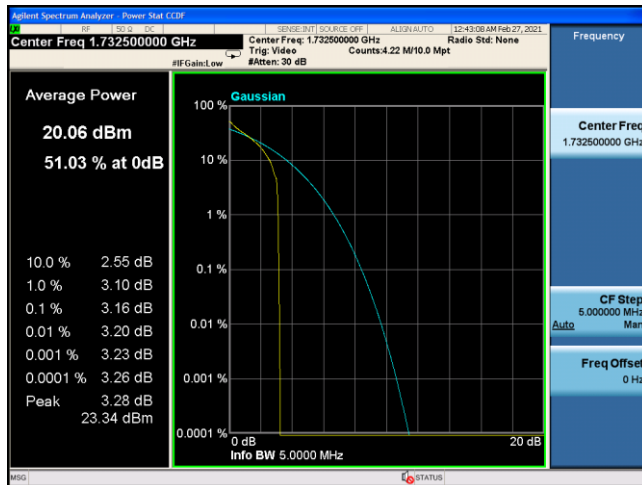
LTE Band 4 QPSK 1.4MHz CH20175 1RB#2



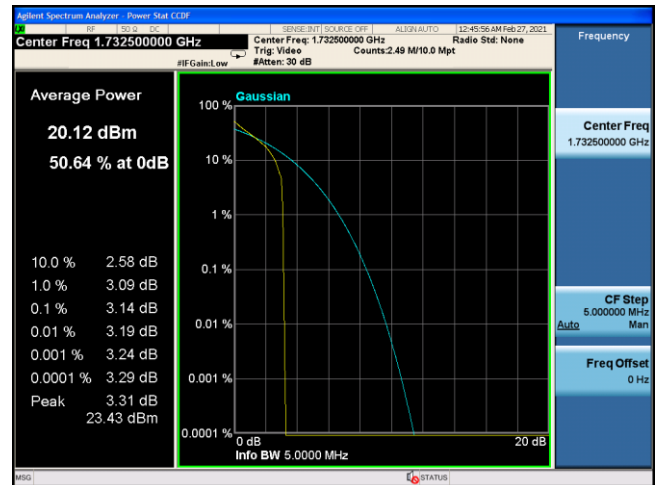
LTE Band 4 QPSK 3MHz CH20175 1RB#7



LTE Band 4 QPSK 5MHz CH20175 1RB#12



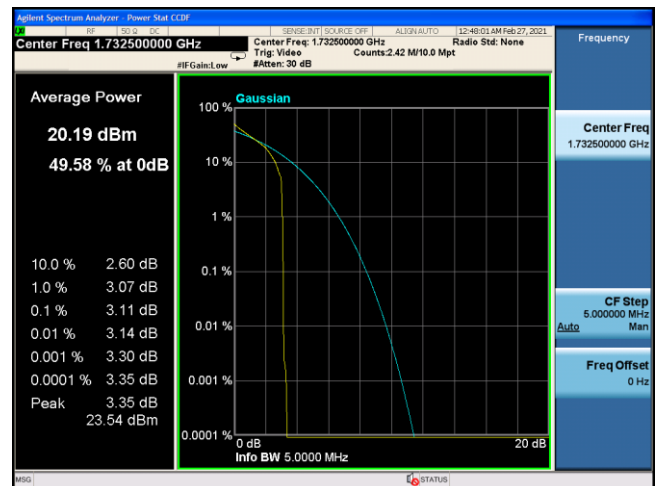
LTE Band 4 QPSK 10MHz CH20175 1RB#25



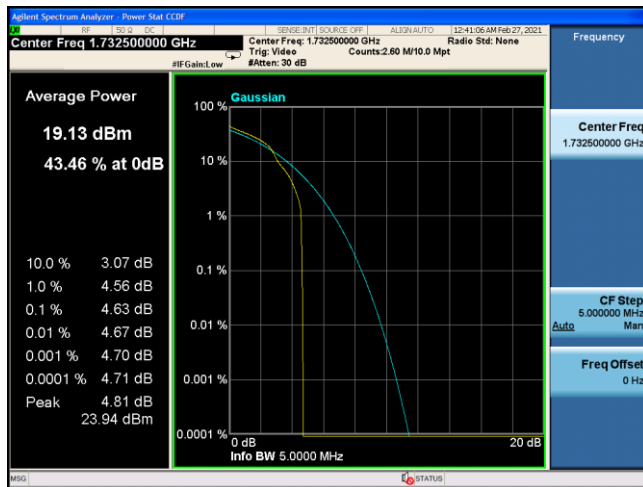
LTE Band 4 QPSK 15MHz CH20175 1RB#36



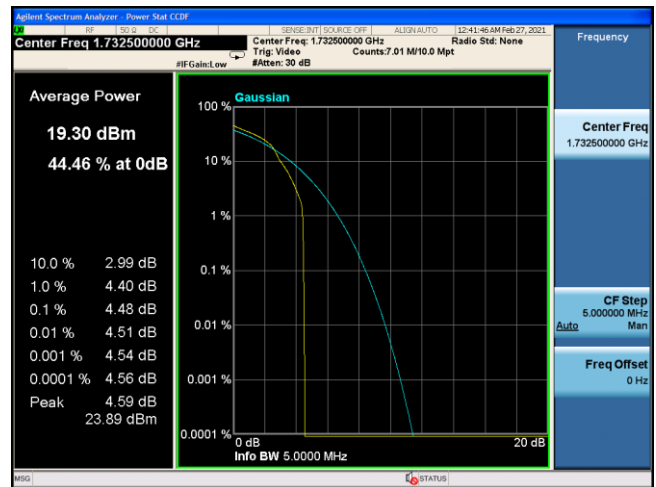
LTE Band 4 QPSK 20MHz CH20175 1RB#49



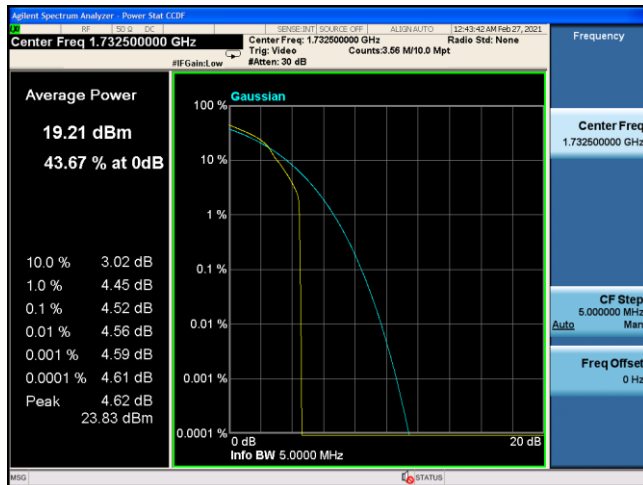
LTE Band 4 16QAM 1.4MHz CH20175 1RB#2



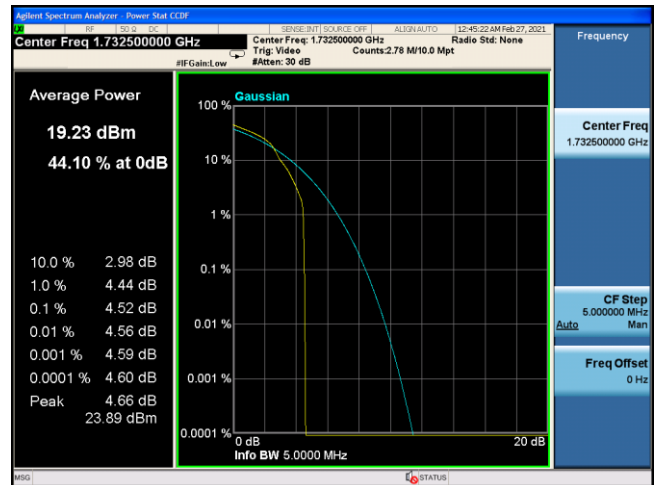
LTE Band 4 16QAM 3MHz CH20175 1RB#7



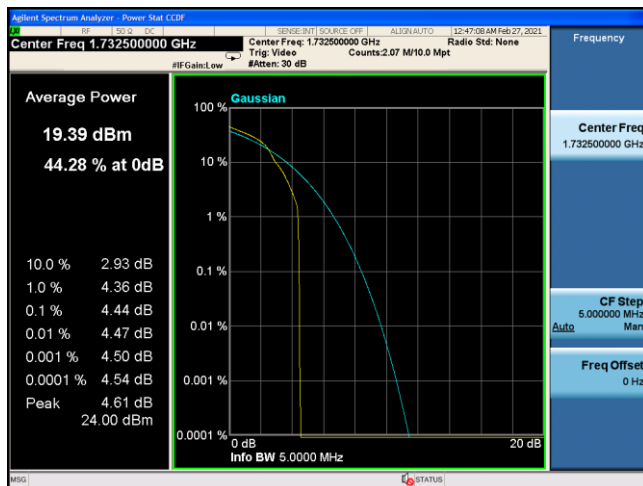
LTE Band 4 16QAM 5MHz CH20175 1RB#12



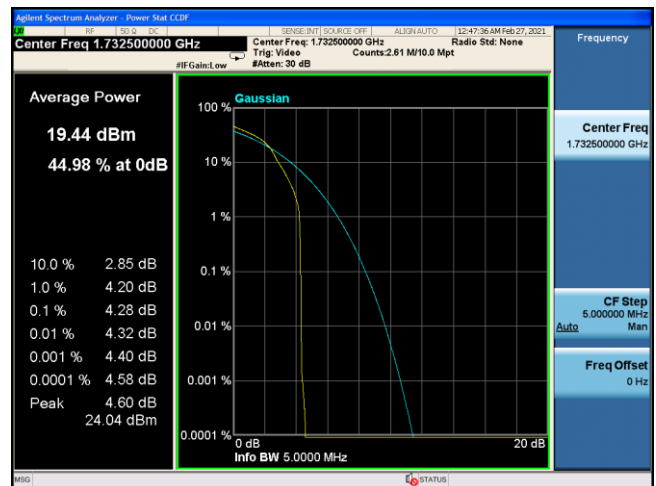
LTE Band 4 16QAM 10MHz CH20175 1RB#25



LTE Band 4 16QAM 15MHz CH20175 1RB#36

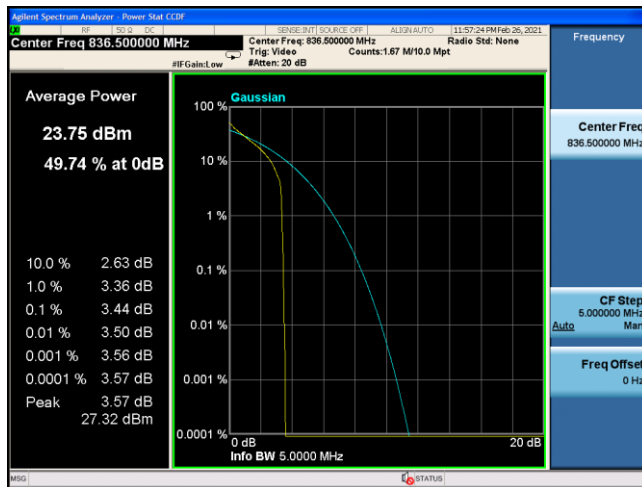


LTE Band 4 16QAM 20MHz CH20175 1RB#49

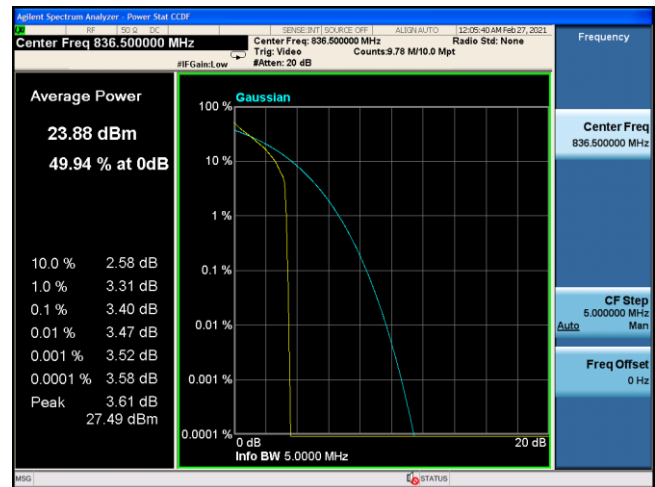


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 5	QPSK	CH20525 / 836.5MHz	1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass
	16QAM		1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
			10	1	25	Pass

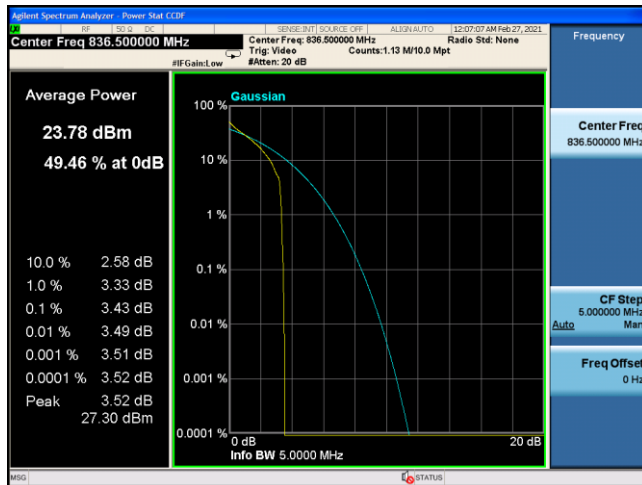
LTE Band 5 QPSK 1.4MHz CH20525 1RB#2



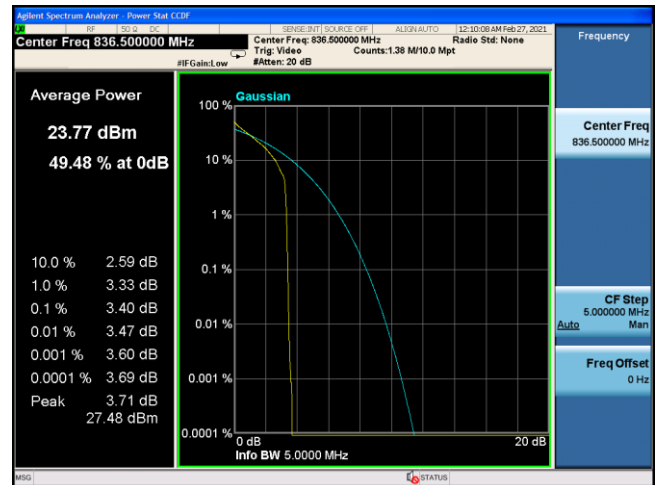
LTE Band 5 QPSK 3MHz CH20525 1RB#7



LTE Band 5 QPSK 5MHz CH20525 1RB#12



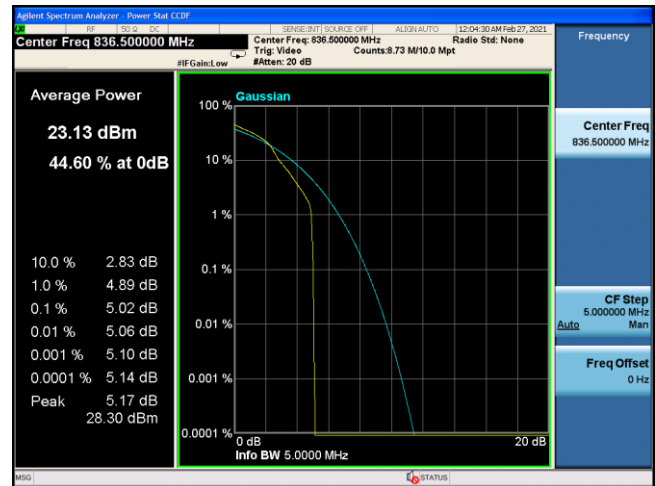
LTE Band 5 QPSK 10MHz CH20525 1RB#25



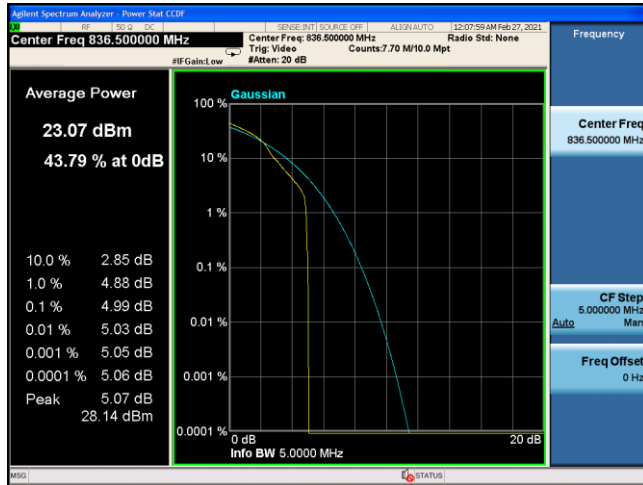
LTE Band 5 16QAM 1.4MHz CH20525 1RB#2



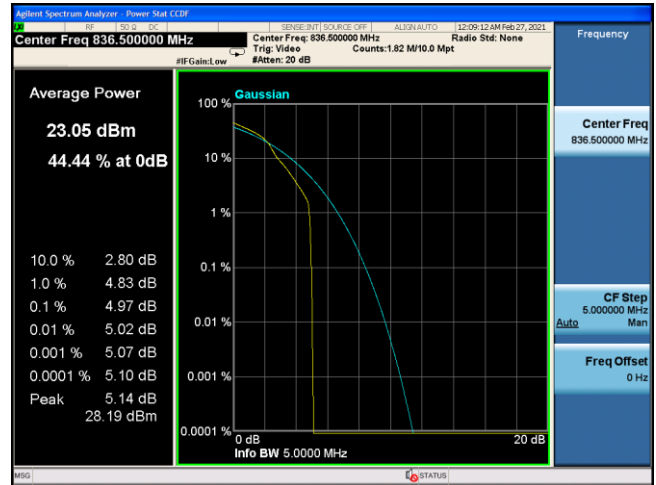
LTE Band 5 16QAM 3MHz CH20525 1RB#7



LTE Band 5 16QAM 5MHz CH20525 1RB#12

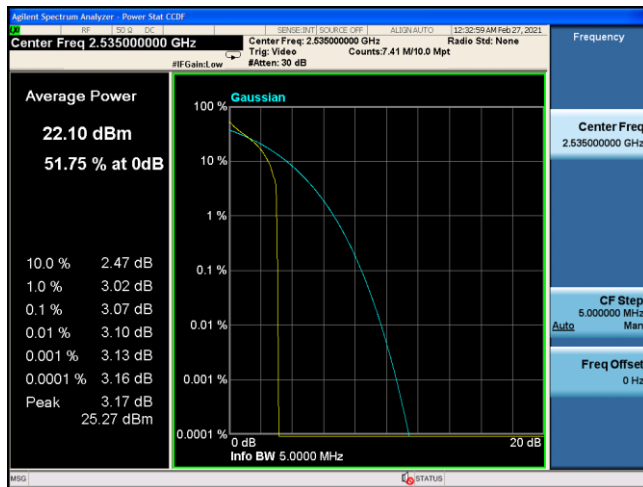


LTE Band 5 16QAM 10MHz CH20525 1RB#25

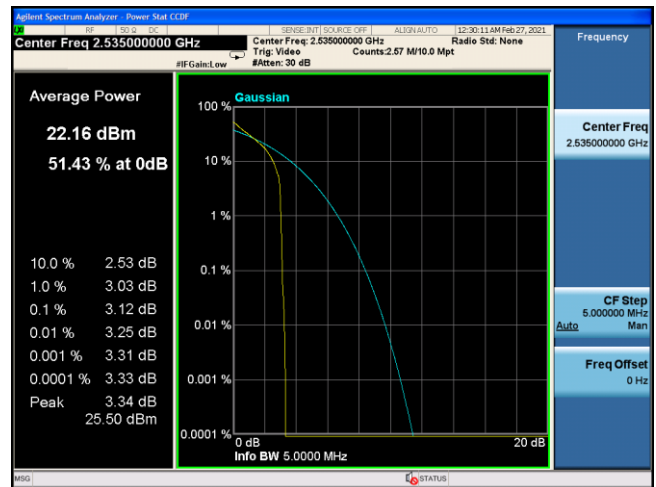


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 7	QPSK	CH21100 / 2535MHz	5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass
	16QAM		5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass

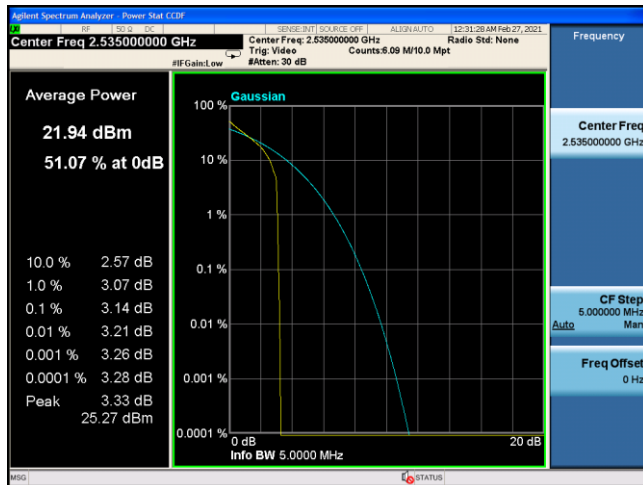
LTE Band 7 QPSK 5MHz CH21100 1RB#12



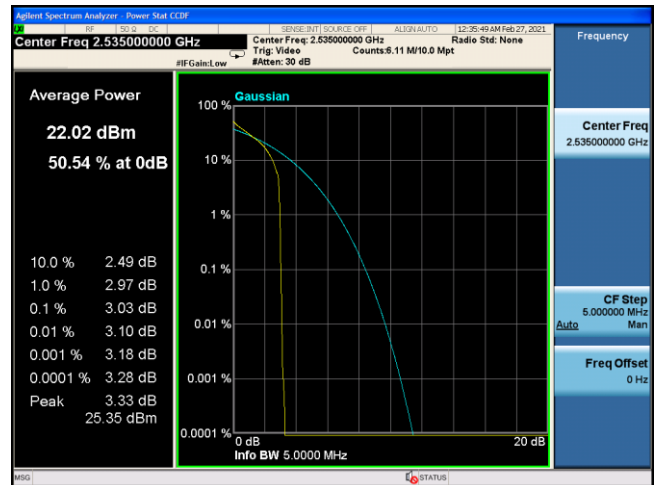
LTE Band 7 QPSK 10MHz CH21100 1RB#25



LTE Band 7 QPSK 15MHz CH21100 1RB#36



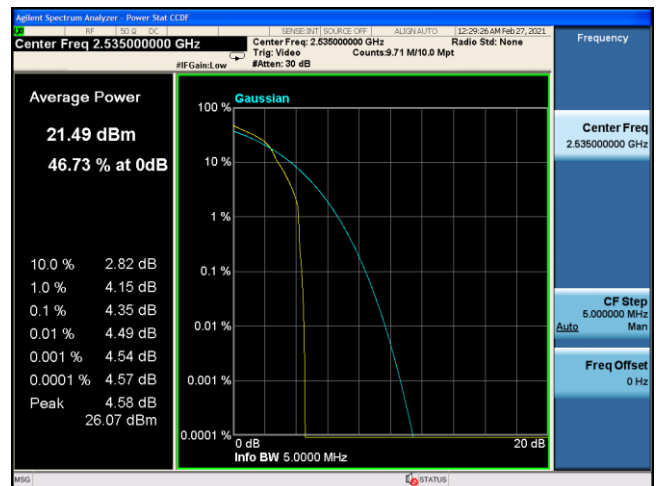
LTE Band 7 QPSK 20MHz CH21100 1RB#49



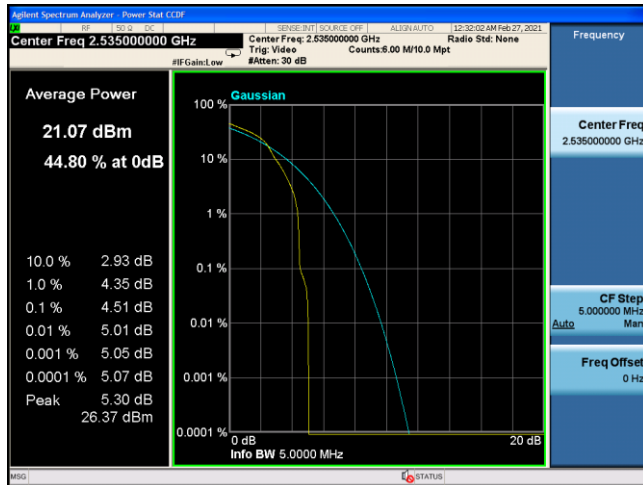
LTE Band 7 16QAM 5MHz CH21100 1RB#12



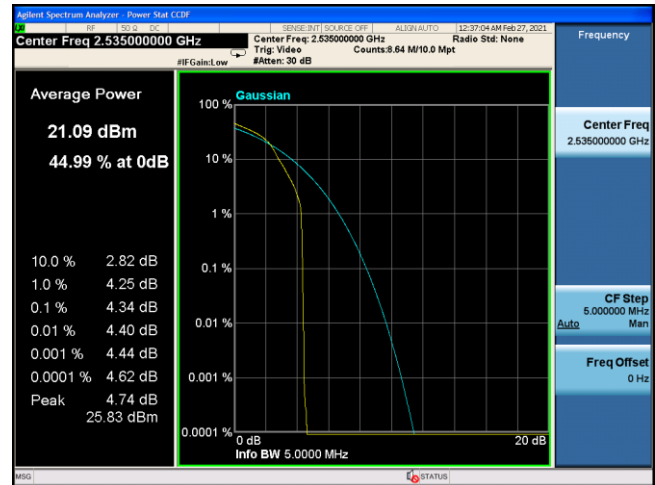
LTE Band 7 16QAM 10MHz CH21100 1RB#25



LTE Band 7 16QAM 15MHz CH21100 1RB#36

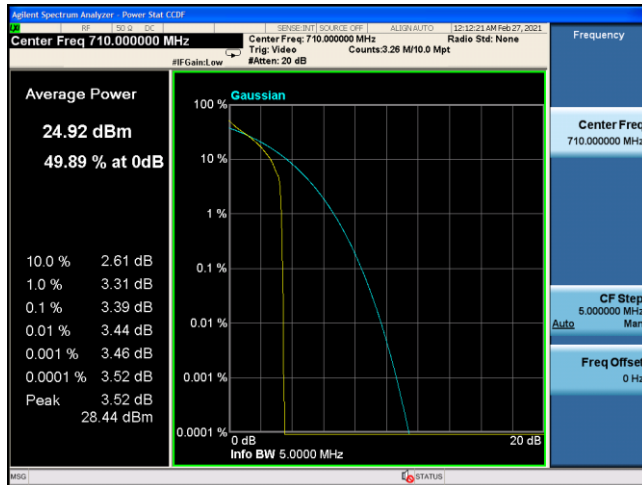


LTE Band 7 16QAM 20MHz CH21100 1RB#49

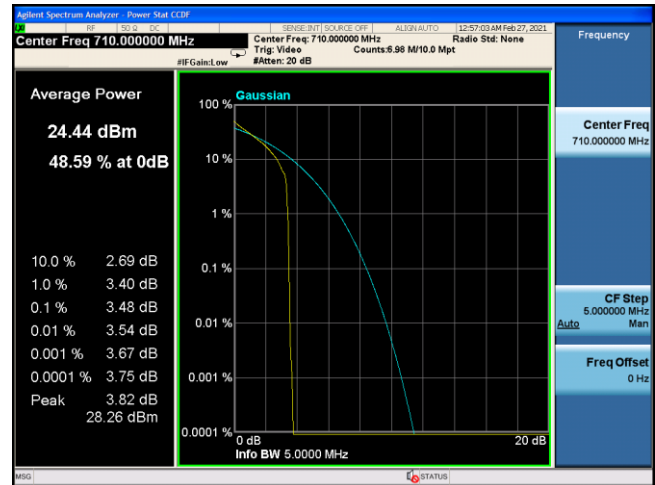


Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 17	QPSK	CH23790 / 710MHz	5	1	12	Pass
			10	1	25	Pass
	16QAM		5	1	12	Pass
			10	1	25	Pass

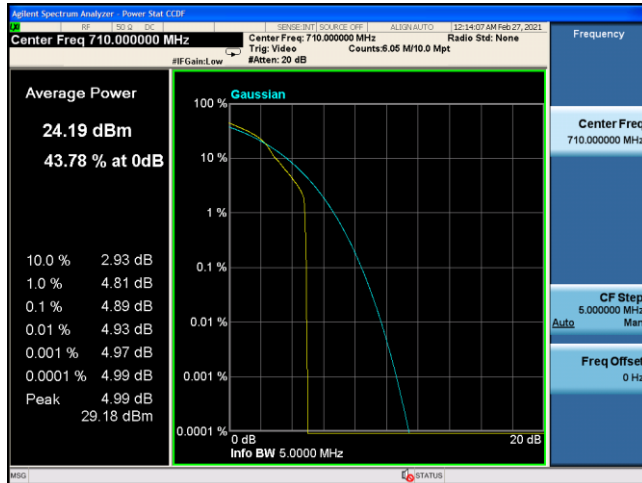
LTE Band 17 QPSK 5MHz CH23790 1RB#12



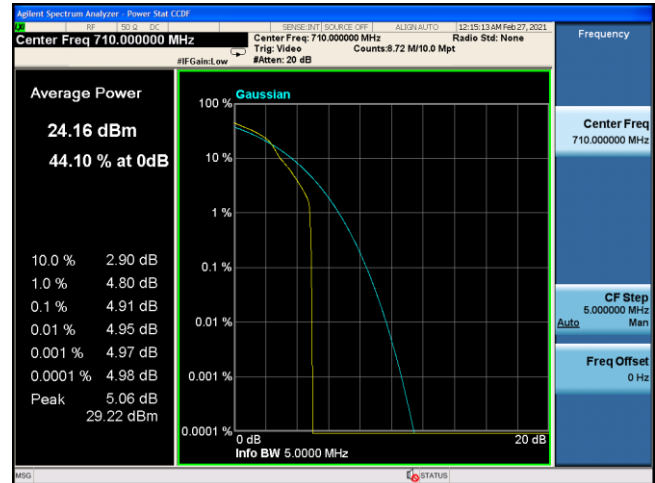
LTE Band 17 QPSK 10MHz CH23790 1RB#25



LTE Band 17 16QAM 5MHz CH23790 1RB#12



LTE Band 17 16QAM 10MHz CH23790 1RB#25



Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
LTE Band 41	QPSK	CH40740 / 2605MHz	5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass
	16QAM		5	1	12	Pass
			10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass

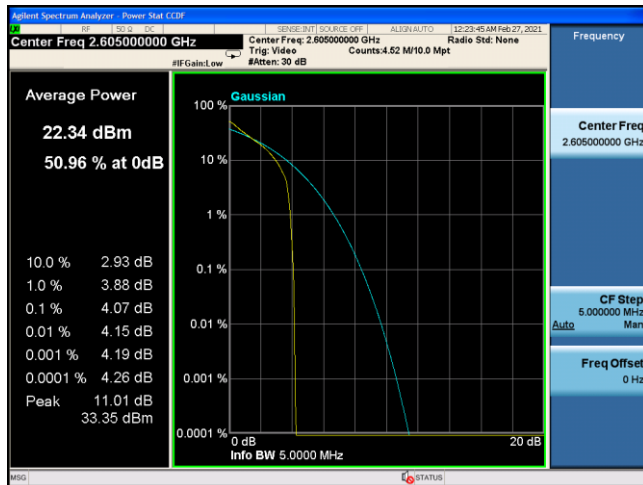
LTE Band 41 QPSK 5MHz CH40740 1RB#12



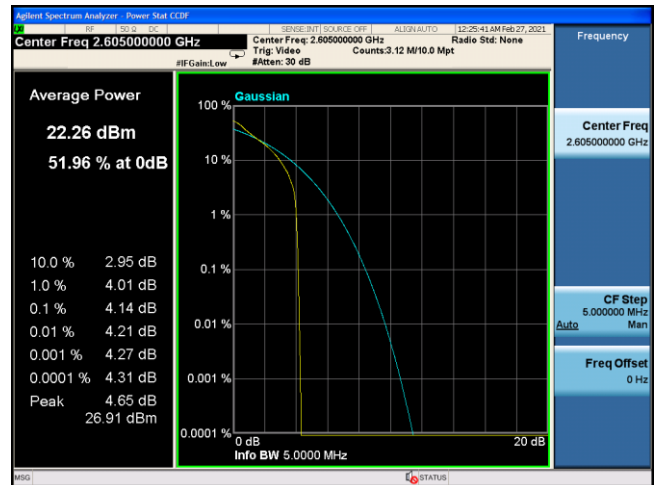
LTE Band 41 QPSK 10MHz CH40740 1RB#25



LTE Band 41 QPSK 15MHz CH40740 1RB#36



LTE Band 41 QPSK 20MHz CH40740 1RB#49



LTE Band 41 16QAM 5MHz CH40740 1RB#12



LTE Band 41 16QAM 10MHz CH40740 1RB#25

