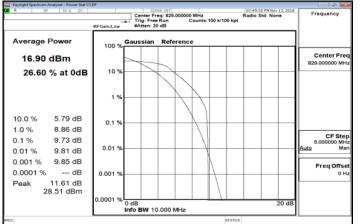
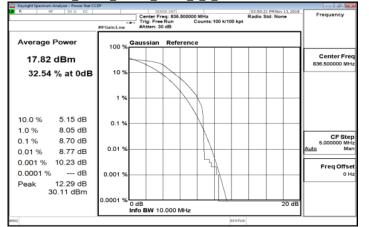


# LTE\_Band5\_10MHz\_QPSK\_6\_0\_LowCH20450-829



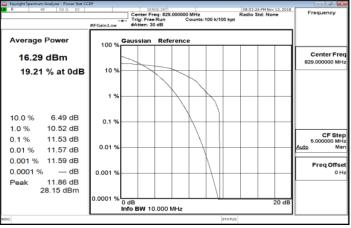
#### LTE\_Band5\_10MHz\_QPSK\_6\_0\_MidCH20525-836.5



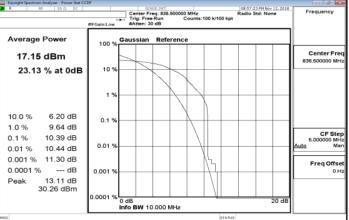
#### LTE\_Band5\_10MHz\_QPSK\_6\_0\_HighCH20600-844

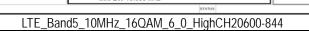
Keysight Spectrum Analyzer - Power Stat CCI		
DA R RF SOG DC	SENSE::DHT    (0:3:50:43 PM Nev 13, 2010      Center Freq: 844,000000 MHz    Radio Std: None      Trig: Free Run    Counts:100 k/100 kpt      #IFGein:Low    #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
16.46 dBm		Center Freq 844.000000 MHz
26.54 % at 0dB	1%	
10.0 % 5.79 dB 1.0 % 8.90 dB	0.1 %	CF Step
0.1 % 9.67 dB 0.01 % 9.76 dB	0.01 %	5.000000 MHz Auto Man
0.001 % 9.81 dB 0.0001 % dB Peak 11.52 dB	0.001 %	Freq Offset 0 Hz
27.98 dBm	0.0001 % 0 dB 20 dB	
MSG	STATUS	

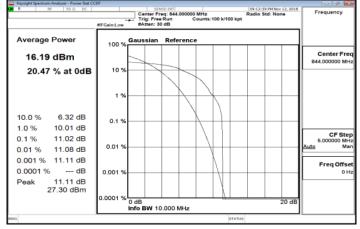
#### LTE\_Band5\_10MHz\_16QAM\_6\_0\_LowCH20450-829



LTE\_Band5\_10MHz\_16QAM\_6\_0\_MidCH20525-836.5







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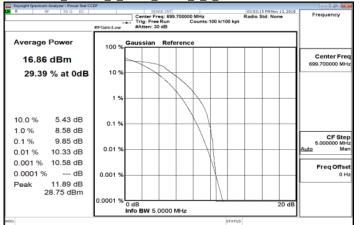
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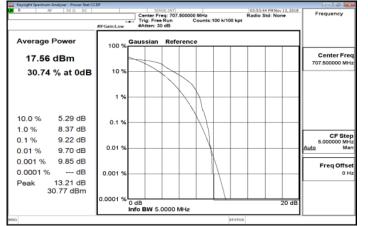
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# LTE\_Band12\_1\_4MHz\_QPSK\_6\_0\_LowCH23017-699.7



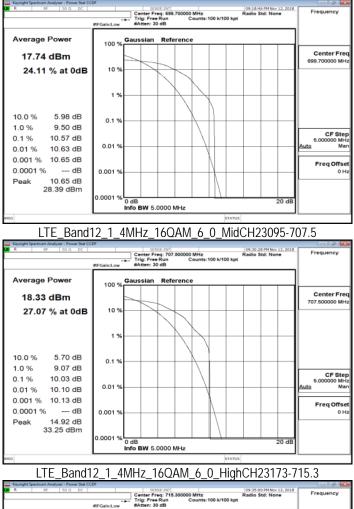
# LTE\_Band12\_1\_4MHz\_QPSK\_6\_0\_MidCH23095-707.5

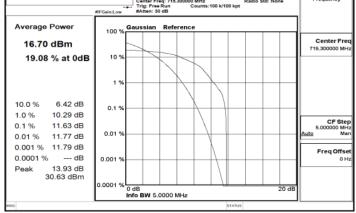


#### LTE\_Band12\_1\_4MHz\_QPSK\_6\_0\_HighCH23173-715.3

R RF 50 G DC		Std: None Frequency
Average Power	100 % Gaussian Reference	
16.28 dBm 26.45 % at 0dB	10 %	Center Frec 715.300000 MHz
	1 %	
10.0 % 5.78 dB 1.0 % 8.89 dB	0.1 %	
0.1 % 10.29 dB 0.01 % 10.66 dB	0.01 %	CF Step 5.00000 MH <u>Auto</u> Mar
0.001 % 10.89 dB 0.0001 % dB Peak 12.65 dB 28.93 dBm	0.001 %	Freq Offse
∠8.93 dBm	0.0001 % 0 dB Info BW 5.0000 MHz	20 dB

# LTE\_Band12\_1\_4MHz\_16QAM\_6\_0\_LowCH23017-699.7





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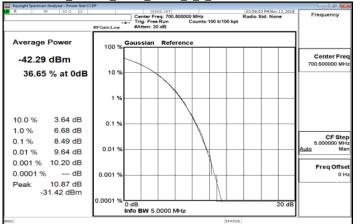
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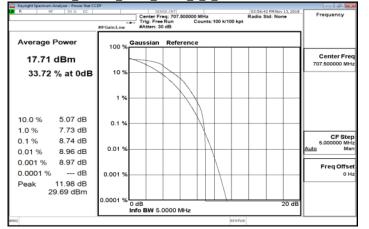
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# LTE\_Band12\_3MHz\_QPSK\_6\_0\_LowCH23025-700.5



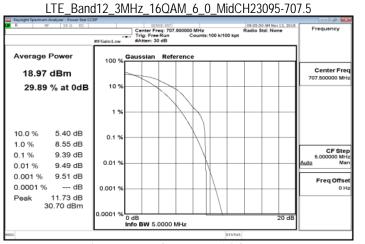
#### LTE\_Band12\_3MHz\_QPSK\_6\_0\_MidCH23095-707.5

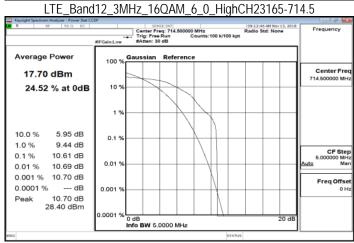


# LTE\_Band12\_3MHz\_QPSK\_6\_0\_HighCH23165-714.5

Keysight Spectrum Analyzer - Power Stat CCI		
R RF 50 Q DC	Center Freq: 714.50000 MHz R Trig: Free Run Counts:100 k/100 kpt #FGoin:Low #Atten: 30 dB	adio Std: None Frequency
Average Power	100 % Gaussian Reference	
17.69 dBm 33.55 % at 0dB	10 %	Center Fre 714.500000 MF
	1 %	
10.0 % 5.02 dB 1.0 % 7.91 dB	0.1 %	
0.1 % 8.82 dB 0.01 % 8.95 dB	0.01 %	CF Ste 5.00000 MH Auto Ma
0.001 % 9.00 dB 0.0001 % dB Peak 9.78 dB	0.001 %	Freq Offse
27.47 dBm	0.0001 % 0 dB Info BW 5.0000 MHz	20 dB
190	STATUS	

#### LTE\_Band12\_3MHz\_16QAM\_6\_0\_LowCH23025-700.5 SENSE:INT 06:52:35 AM Nov 13 Center Freq: 700.500000 MHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB Counts:100 k/100 kpt Frequency Average Power Gaussian Reference Center Free 19.44 dBm 32.83 % at 0dB 10 ' 1 % 10.0 % 5 14 dB 0.1 % 1.0 % 8.24 dB CF Step 5.000000 MIL 8.95 dB 0.1 % 0.01 % 9.00 dB 0.01 % 0.001 % 9.02 dB Freq Offse 0.0001 % ---- dB 0.001 % 0 H Peak 9.02 dB 28.46 dBm 0.0001 % 0 dB Info BW 5.0000 MHz





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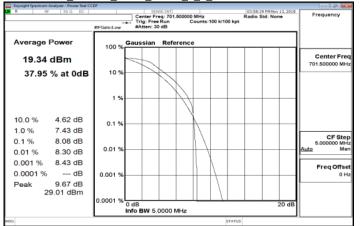
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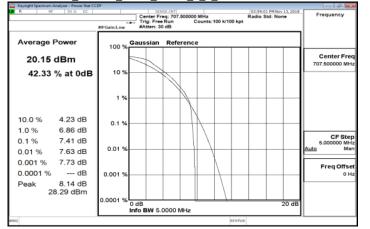
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# LTE\_Band12\_5MHz\_QPSK\_6\_0\_LowCH23035-701.5



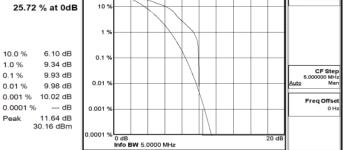
#### LTE\_Band12\_5MHz\_QPSK\_6\_0\_MidCH23095-707.5



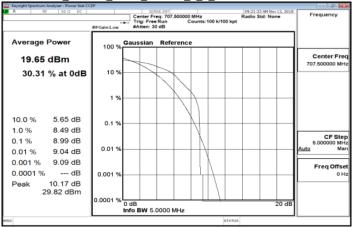
# LTE\_Band12\_5MHz\_QPSK\_6\_0\_HighCH23155-713.5

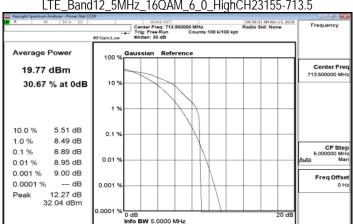
Keysight Spectrum Analyzer - Power Stat CC		21 PM Nov 13, 2018
	Center Freq: 713.500000 MHz Radio Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	Std: None Frequency
Average Power	100 % Gaussian Reference	
-42.15 dBm		Center Free 713.500000 MH
36.71 % at 0dB	10 %	
	1%	
10.0 % 3.63 dB 1.0 % 6.73 dB	0.1 %	
0.1 % 8.54 dB 0.01 % 10.02 dB	0.01 %	CF Ste 5.00000 MH <u>Auto</u> Ma
0.001 % 10.99 dB 0.0001 % dB Peak 11.28 dB	0.001 %	Freq Offse
-30.87 dBm	0.0001 % 0 dB	20 dB
	Info BW 5.0000 MHz	
93	STATUS	

#### LTE\_Band12\_5MHz\_16QAM\_6\_0\_LowCH23035-701.5 SENSE:INT 09:18:39 AM Nov 13 Center Freq: 701.500000 MHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB Counts:100 k/100 kpt Frequency Average Power Gaussian Reference Center Free 18.52 dBm



# LTE\_Band12\_5MHz\_16QAM\_6\_0\_MidCH23095-707.5





LTE\_Band12\_5MHz\_16QAM\_6\_0\_HighCH23155-713.5

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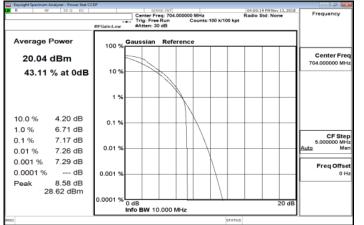
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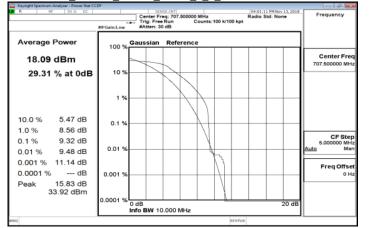
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# LTE\_Band12\_10MHz\_QPSK\_6\_0\_LowCH23060-704



#### LTE\_Band12\_10MHz\_QPSK\_6\_0\_MidCH23095-707.5



#### LTE Band12 10MHz QPSK 6 0 HighCH23130-711

Keysight Spectrum Analyzer - Power Stat CC	Center Freq: 711,000000 MHz    Radio Std: None      Trig: Freq Run    Counts:100 k/100 kpt      #FGain:Low    #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
18.07 dBm 29.80 % at 0dB	10 %	Center Freq 711.000000 MHz
	1 %	
10.0 % 5.41 dB 1.0 % 8.49 dB	0.1 %	
0.1 % 9.23 dB 0.01 % 9.34 dB	0.01 %	CF Step 5.000000 MH: <u>Auto</u> Mar
0.001 % 11.01 dB 0.0001 % dB Peak 11.17 dB 29.24 dBm	0.001 %	Freq Offset 0 Ha
29.24 UDIII	0.0001 % 0 dB 20 dB 20 dB 20 dB	2

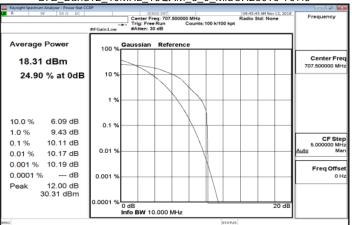
#### Center Freq: 704.000000 MHz Radio Std: None Trig: FreeRun Counts: 100 k/100 kpt Frequency Average Power Gaussian Reference Center Free -38.67 dBm 36.33 % at 0dB 10 ' 1 % 10.0 % 3 66 dB 0.1 % 1.0 % 6.76 dB CF Step 5.000000 MIL 8.55 dB 0.1 % 0.01 % 9.79 dB 0.01 % 0.001 % 10.85 dB Freq Offse 0.0001 % ---- dB 0.001 % 0 H 11.22 dB -27.45 dBm Peak

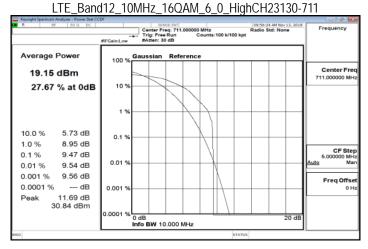
LTE\_Band12\_10MHz\_16QAM\_6\_0\_LowCH23060-704

LTE\_Band12\_10MHz\_16QAM\_6\_0\_MidCH23095-707.5

0 dB Info BW 10.000 MHz

0.0001 %





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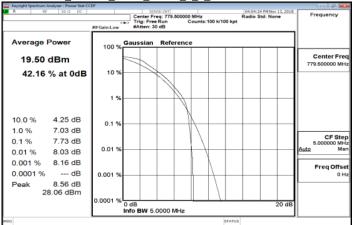
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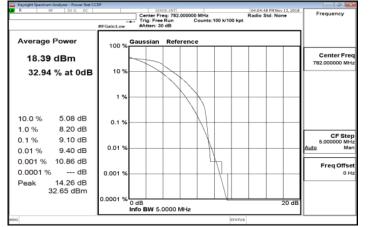
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# LTE\_Band13\_5MHz\_QPSK\_6\_0\_LowCH23205-779.5



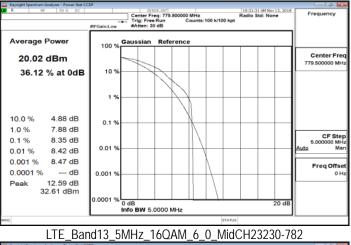
# LTE\_Band13\_5MHz\_QPSK\_6\_0\_MidCH23230-782

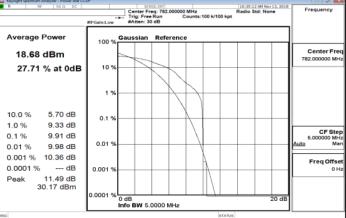


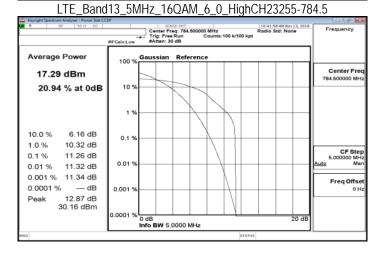
#### LTE\_Band13\_5MHz\_QPSK\_6\_0\_HighCH23255-784.5

Keysight Spectrum Analyzer - Power Stat CC		
QM R RF SOΩ DC		Frequency
Average Power	100 % Gaussian Reference	
16.91 dBm	10 %	Center Freq 784.500000 MHz
25.07 % at 0dB	1%	
10.0 % 5.90 dB 1.0 % 9.25 dB	0.1 %	
0.1 % 10.49 dB 0.01 % 10.81 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 10.99 dB 0.0001 % dB Peak 18.62 dB	0.001 %	Freq Offset 0 Hz
35.53 dBm	0.0001 % 0 dB 20 dB Info BW 5.0000 MHz	
MSG	STATUS	

#### LTE\_Band13\_5MHz\_16QAM\_6\_0\_LowCH23205-779.5







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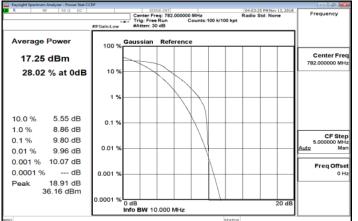
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# LTE\_Band13\_10MHz\_QPSK\_6\_0\_MidCH23230-782



# LTE\_Band13\_10MHz\_16QAM\_6\_0\_MidCH23230-782

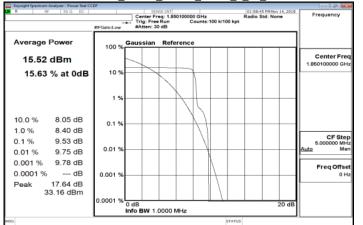
Keysight Spectrum Analyzer - Power Stat CC R R R <sup>-</sup> 50 Ω DC	SENSE:INT 10:09:36 AN Nov Center Freq: 782.000000 MHz Radio Std: Non AFGaintLow #Atten: 30 dB	13, 2018 Frequency
Average Power	100 % Gaussian Reference	
17.61 dBm 24.17 % at 0dB	10 %	Center Freq 782.000000 MHz
	1 %	_
10.0 % 5.99 dB 1.0 % 9.81 dB	0.1 %	_
0.1 % 10.70 dB 0.01 % 10.76 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 10.79 dB 0.0001 % dB Peak 12.35 dB	0.001 %	Freq Offset 0 Hz
29.96 dBm	0.0001 % 0 dB 2 Info BW 10.000 MHz 2	:0 dB
190	STATUS	

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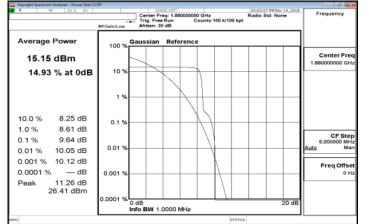
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# NB-IOT CCDF LTE\_Band2\_15KHz\_BPSK\_1\_11\_LowCH18601



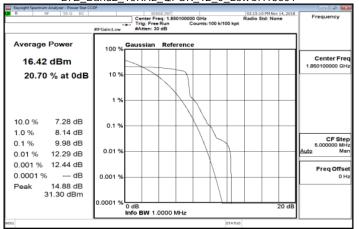
# LTE\_Band2\_15KHz\_BPSK\_1\_11\_MidCH18900



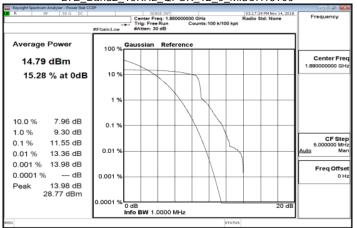
#### LTE Band2 15KHz BPSK 1 11 HighCH19199

	Center Freg: 1.309900000 GHz Radio Std: None Trig: Free Run Counts: 100 k/100 kpt IFFGain:Low #Atten: 30 dB	_
Average Power	100 % Gaussian Reference	
14.19 dBm		Center Fre 1.909900000 GH
12.55 % at 0dB	10 %	
	1 %	_
10.0 % 8.85 dB	0.1 %	_
1.0 % 9.36 dB 0.1 % 10.52 dB 0.01 % 10.84 dB	0.01 %	CF Ste 5.000000 MH Auto Ma
0.001 % 10.90 dB 0.0001 % dB Peak 16.34 dB	0.001 %	Freq Offse
Peak 16.34 dB 30.53 dBm	0.0001 % 0 dB 20	

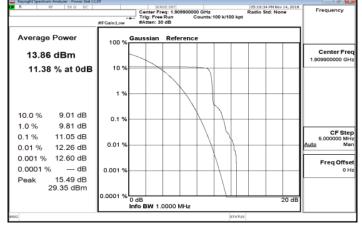
# LTE\_Band2\_15KHz\_QPSK\_12\_0\_LowCH18601



LTE\_Band2\_15KHz\_QPSK\_12\_0\_MidCH18900







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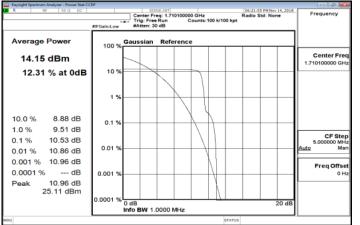
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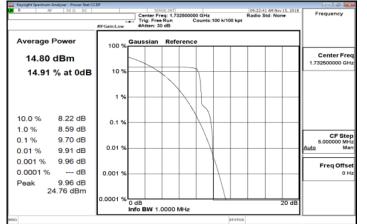
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# LTE\_Band4\_15KHz\_BPSK\_1\_11\_LowCH19951



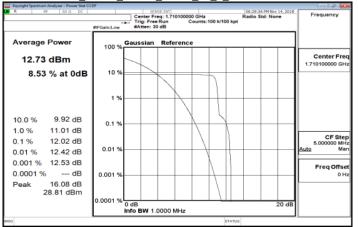
# LTE\_Band4\_15KHz\_BPSK\_1\_11\_MidCH20175



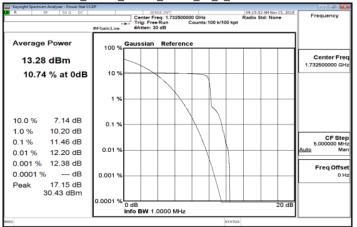
# LTE\_Band4\_15KHz\_BPSK\_1\_11\_HighCH20399

R RF 50 Ω DC	SENSE:INT 09:52:36 AM N	
	Center Freq: 1.754900000 GHz Radio Std: N Trig: Free Run Counts:100 k/100 kpt #Atten: 30 dB	or 15, 2018 one Frequency
Average Power	100 % Gaussian Reference	
14.30 dBm		Center Freq 1.754900000 GHz
13.40 % at 0dB	1 %	
10.0 % 8.62 dB 1.0 % 9.08 dB	0.1 %	
0.1 % 9.98 dB 0.01 % 10.37 dB 0.001 % 10.44 dB	0.01 %	CF Step 5.000000 MHz Auto Mar
0.0001 % 10.44 dB 0.0001 % dB Peak 10.44 dB 24.74 dBm	0.001 %	Freq Offsel
24.74 0011	0.0001 % 0 dB Info BW 1.0000 MHz	20 dB

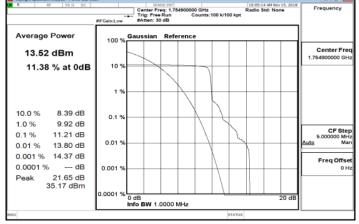
#### LTE\_Band4\_15KHz\_QPSK\_12\_0\_LowCH19951



LTE Band4 15KHz QPSK 12 0 MidCH20175







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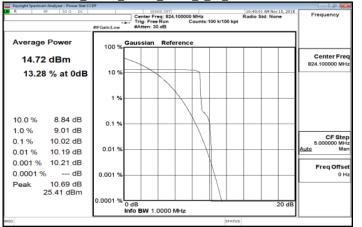
台灣檢驗科技股份有限公司

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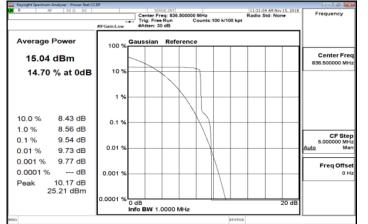
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# LTE\_Band5\_15KHz\_BPSK\_1\_11\_LowCH20401



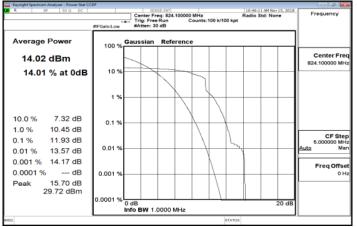
# LTE\_Band5\_15KHz\_BPSK\_1\_11\_MidCH20525



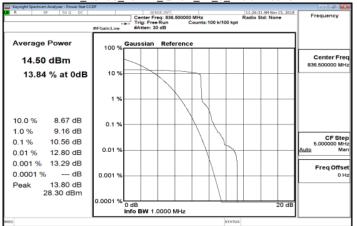
# LTE\_Band5\_15KHz\_BPSK\_1\_11\_HighCH20649

Keysight Spectrum Analyzer - Power Stat CC		
R RF 50Ω DC	SERVELING 01:23:37 PM Nov 15, 2 Center Freq: 848,900000 MHz Radio Std: None Trig: Free Run Counts:100 k/100 kpt #IFGainsLow #Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
14.16 dBm		Center Freq 848.900000 MHz
15.48 % at 0dB	1 %	
10.0 % 8.16 dB 1.0 % 8.37 dB	0.1 %	_
0.1 % 9.39 dB 0.01 % 9.54 dB 0.001 % 9.59 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.0001 % dB Peak 10.49 dB	0.001 %	Freq Offset
24.65 dBm	0.0001 % 0 dB 20 c Info BW 1.0000 MHz	IB
DEM	STATUS	

#### LTE\_Band5\_15KHz\_QPSK\_12\_0\_LowCH20401



LTE\_Band5\_15KHz\_QPSK\_12\_0\_MidCH20525



# LTE\_Band5\_15KHz\_QPSK\_12\_0\_HighCH20649 01:36:18 PM Nov 15, 2018 Radio Std: None SENSE 2011 Center Freq: 848.900000 MHz Trig: Free Run Counts: 100 k/100 kpt #Atten: 30 dB Frequency •••

Average Power	100 % Gaussian Reference	
12.35 dBm	10 %	Center Freq 848.900000 MHz
10.63 % at 0dB	1%	
10.0 % 8.72 dB	0.1 %	
1.0 % 9.96 dB 0.1 % 10.92 dB 0.01 % 11.14 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 11.17 dB 0.0001 % dB	0.001 %	Freq Offset 0 Hz
Peak 16.14 dB 28.49 dBm	0.0001 % 0 dB 20 dB	
мяа	0 dB 20 dB Info BW 1.0000 MHz	

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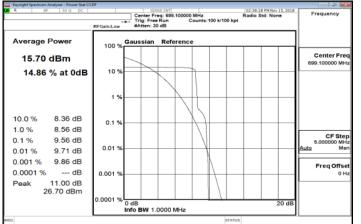
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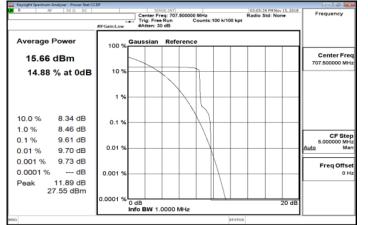
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# LTE\_Band12\_15KHz\_BPSK\_1\_11\_LowCH23011



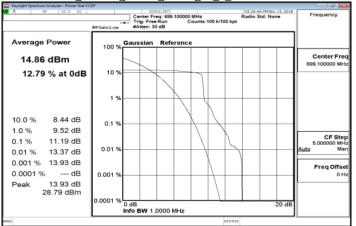
# LTE\_Band12\_15KHz\_BPSK\_1\_11\_MidCH23095



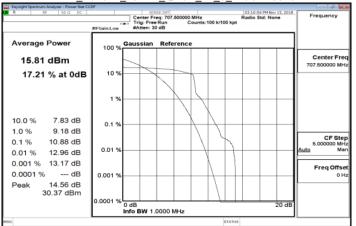
#### LTE\_Band12\_15KHz\_BPSK\_1\_11\_HighCH23179

	0 dB	Counts:100 k/1	Radio	Std: None	Frequency Center Freq 715.900000 MHz
100 %	Referenc	e			
1 %					
1 %					
0.1.%					
0.1 %		$\mathbb{N}$			
0.01 %		$  \rangle$			CF Stej 5.000000 MH <u>Auto</u> Ma
D.001 %		$\left  \right $			Freq Offse 0 H
0001 % 0 dB	.0000 MHz			20 dB	
	0001 % 0 dB	0001 %	0001 % 0 dB	0001 % 0 dB	0001 % 0 dB 20 dB

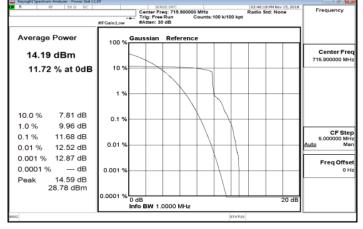
#### LTE\_Band12\_15KHz\_QPSK\_12\_0\_LowCH23011



LTE\_Band12\_15KHz\_QPSK\_12\_0\_MidCH23095







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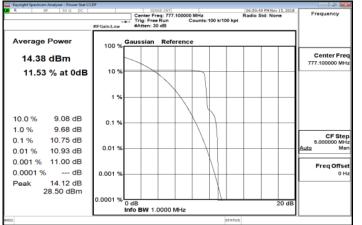
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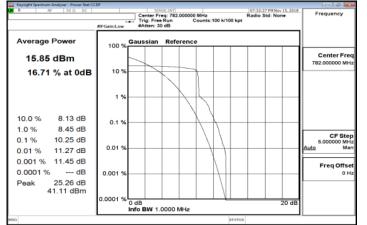
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# LTE\_Band13\_15KHz\_BPSK\_1\_11\_LowCH23181



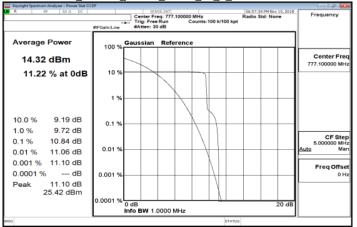
# LTE\_Band13\_15KHz\_BPSK\_1\_11\_MidCH23230



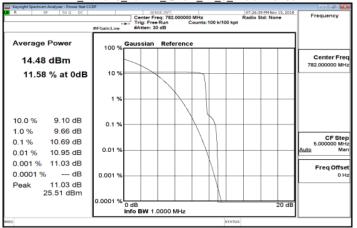
#### LTE\_Band13\_15KHz\_BPSK\_1\_11\_HighCH23279

Keysight Spectrum Analyzer - Power Stat Cl		
R RF SOR DC	Strot::brit    (27:37:56 PM Nov 15, 2018      Center Freq: 768,900000 MHz    Radio Std: None      #IFGaIn1.cow    Atten: 30 dB	Frequency
Average Power	100 % Gaussian Reference	
15.92 dBm		Center Freq 786.900000 MHz
15.16 % at 0dB	10 %	
10.0 % 8.26 dB 1.0 % 8.44 dB	0.1 %	
0.1 % 9.57 dB 0.01 % 9.72 dB 0.001 % 9.75 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.0001 % 5.73 dB 0.0001 % dB Peak 11.13 dB 27.05 dBm	0.001 %	Freq Offset 0 Hz
27.03 dBm	0.0001 % 0 dB 20 dB Info BW 1.0000 MHz	

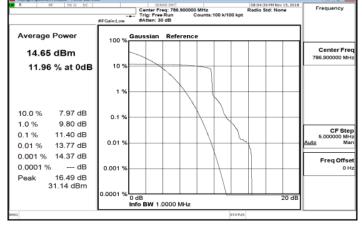
#### LTE\_Band13\_15KHz\_QPSK\_12\_0\_LowCH23181



LTE\_Band13\_15KHz\_QPSK\_12\_0\_MidCH23230







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~ End of Report ~

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