

#### 4.4 Occupied Bandwidth Measurement

##### 4.4.1 Limits of Occupied Bandwidth Measurement

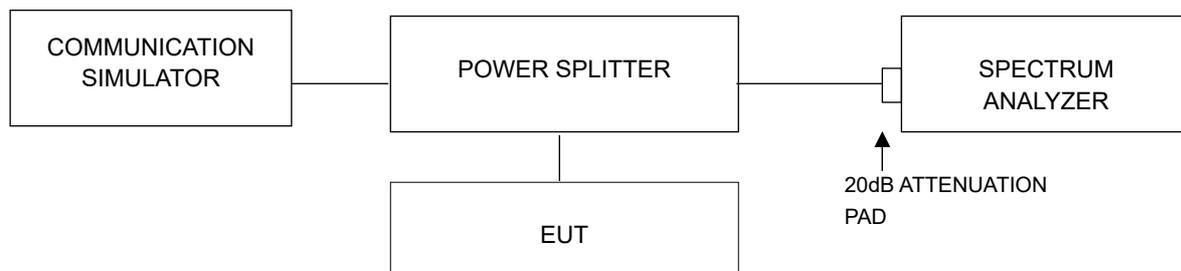
The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 % of the total mean power radiated by a given emission.

##### 4.4.2 Test Procedure

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Measurement method, please refer to section 5.4.4 of ANSI C63.26. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

For the 26dBc bandwidth measurement method, please refer to section 5.4.3 of ANSI C63.26.

##### 4.4.3 Test Setup



#### 4.4.4 Test Result

##### Occupied Bandwidth

LTE Band 4, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
19957	1710.7	1.09	1.09	1.09	1.09
20175	1732.5	1.09	1.09	1.09	1.08
20393	1754.3	1.09	1.09	1.09	1.08
LTE Band 4, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
19965	1711.5	2.70	2.70	2.70	2.70
20175	1732.5	2.70	2.70	2.70	2.69
20385	1753.5	2.70	2.70	2.70	2.69
LTE Band 4, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
19975	1712.5	4.49	4.49	4.49	4.49
20175	1732.5	4.49	4.49	4.48	4.49
20375	1752.5	4.49	4.49	4.49	4.48
LTE Band 4, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20000	1715.0	8.98	8.95	8.96	8.96
20175	1732.5	8.97	8.96	8.96	8.95
20350	1750.0	8.97	8.94	8.95	8.95
LTE Band 4, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20025	1717.5	13.45	13.44	13.45	13.44
20175	1732.5	13.45	13.45	13.45	13.44
20325	1747.5	13.44	13.44	13.44	13.44

LTE Band 4, Channel Bandwidth 20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20050	1720.0	17.90	17.91	17.91	17.91
20175	1732.5	17.92	17.93	17.93	17.93
20300	1745.0	17.92	17.92	17.92	17.93

### Spectrum Plot of Worst Value

#### 1.4MHz / 16QAM



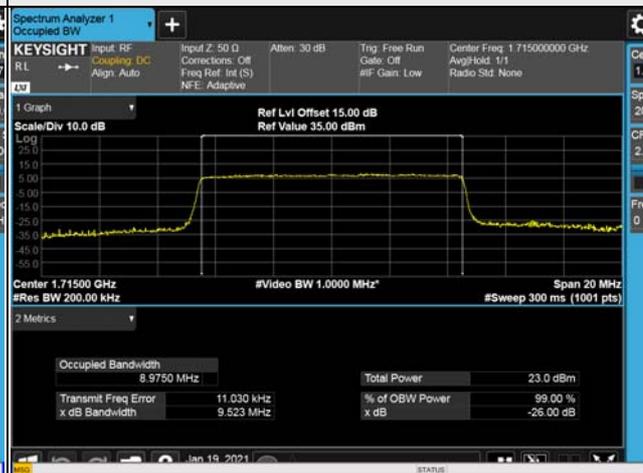
#### 3MHz / 16QAM



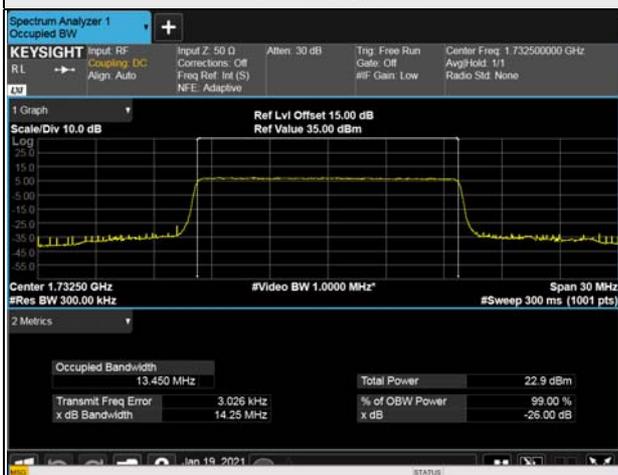
#### 5MHz / 16QAM



#### 10MHz / QPSK



#### 15MHz / QPSK



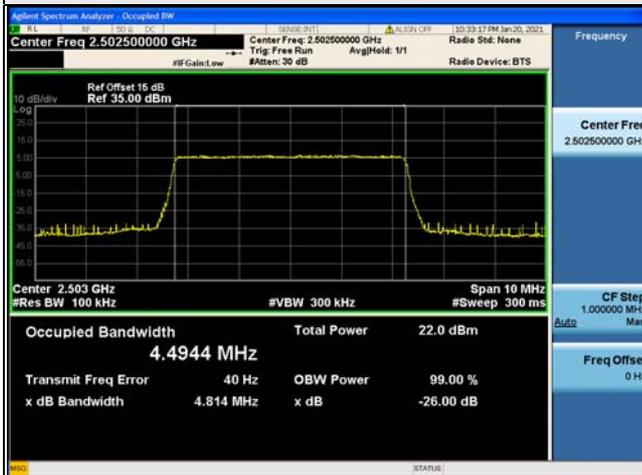
#### 20MHz / 256QAM



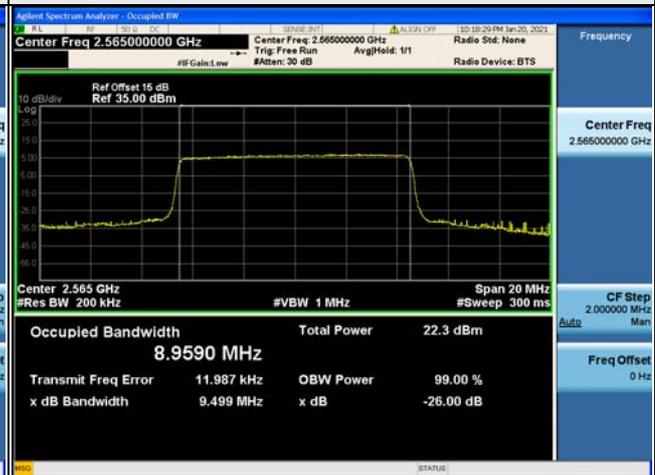
LTE Band 7, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20775	2502.5	4.48	4.49	4.49	4.49
21100	2535.0	4.49	4.49	4.49	4.49
21425	2567.5	4.49	4.49	4.49	4.48
LTE Band 7, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20800	2505.0	8.95	8.95	8.96	8.95
21100	2535.0	8.95	8.95	8.95	8.95
21400	2565.0	8.95	8.96	8.96	8.95
LTE Band 7, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20825	2507.5	13.44	13.43	13.43	13.43
21100	2535.0	13.45	13.44	13.43	13.44
21375	2562.5	13.46	13.45	13.44	13.46
LTE Band 7, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20850	2510.0	17.90	17.91	17.91	17.91
21100	2535.0	17.91	17.93	17.92	17.92
21350	2560.0	17.93	17.95	17.95	17.95

### Spectrum Plot of Worst Value

5MHz / 64QAM



10MHz / 16QAM



15MHz / QPSK



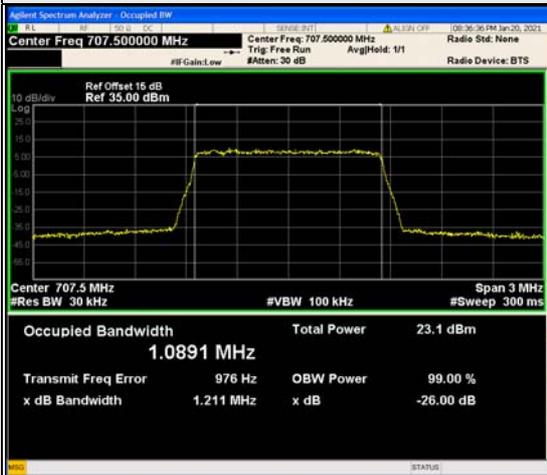
20MHz / 64QAM



LTE Band 12, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23017	699.7	1.09	1.09	1.09	1.09
23095	707.5	1.09	1.09	1.09	1.09
23173	715.3	1.09	1.09	1.09	1.09
LTE Band 12, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23025	700.5	2.70	2.69	2.69	2.70
23095	707.5	2.70	2.69	2.69	2.70
23165	714.5	2.70	2.69	2.69	2.70
LTE Band 12, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23035	701.5	4.48	4.49	4.49	4.48
23095	707.5	4.49	4.49	4.50	4.49
23155	713.5	4.48	4.48	4.49	4.48
LTE Band 12, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23060	704.0	8.95	8.96	8.95	8.95
23095	707.5	8.96	8.96	8.96	8.96
23130	711.0	8.95	8.96	8.96	8.95

### Spectrum Plot of Worst Value

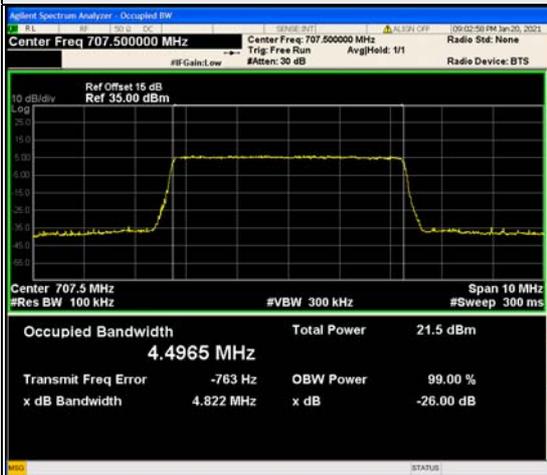
1.4MHz / 16QAM



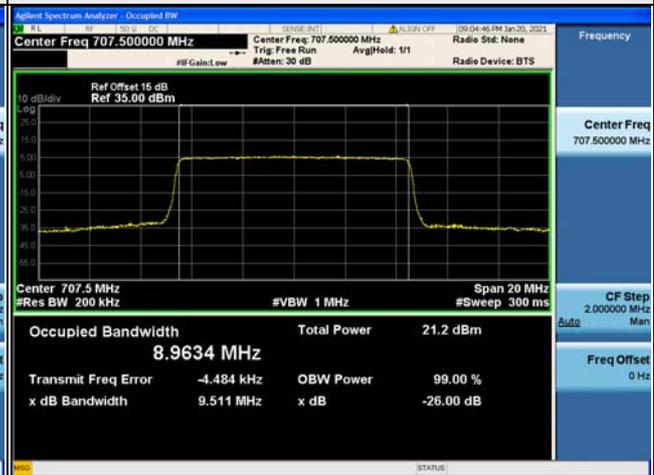
3MHz / QPSK



5MHz / 64QAM



10MHz / 64QAM



LTE Band 13, Channel Bandwidth 5MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23205	779.5	4.47	4.48	4.49	4.48
23230	782.0	4.49	4.49	4.50	4.48
23255	784.5	4.48	4.50	4.50	4.49

LTE Band 13, Channel Bandwidth 10MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23230	782.0	8.95	8.95	8.94	8.94

Spectrum Plot of Worst Value

5MHz / 64QAM



10MHz / 16QAM



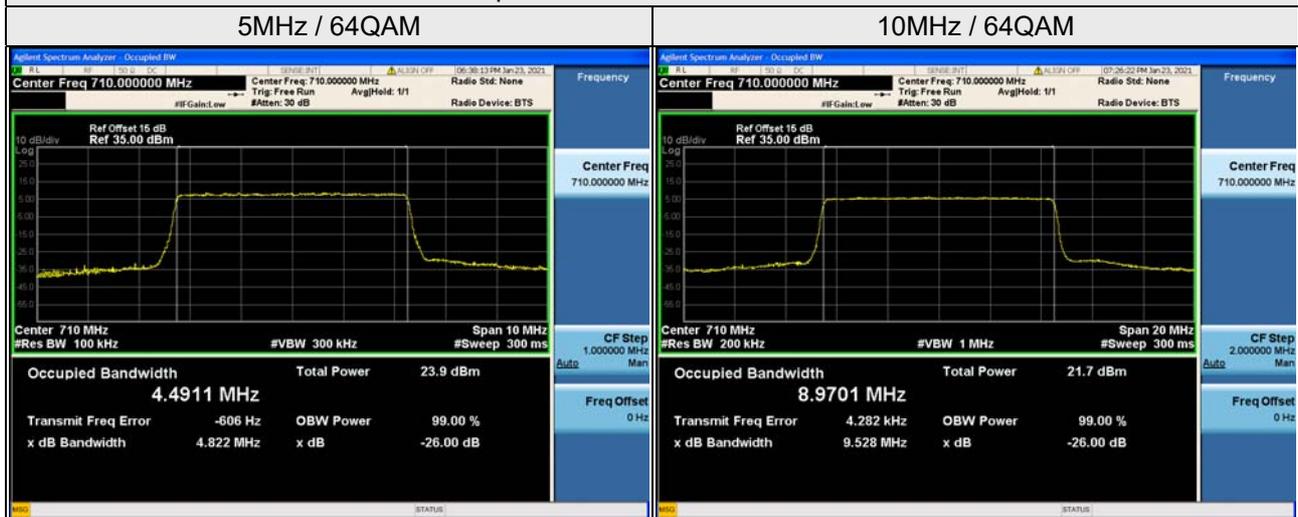
LTE Band 17, Channel Bandwidth 5MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23755	706.5	4.49	4.48	4.48	4.49
23790	710.0	4.49	4.48	4.49	4.49
23825	713.5	4.49	4.48	4.48	4.48

LTE Band 17, Channel Bandwidth 10MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23780	709.0	8.96	8.95	8.97	8.96
23790	710.0	8.96	8.95	8.97	8.95
23800	711.0	8.96	8.94	8.96	8.95

Spectrum Plot of Worst Value



LTE Band 30, Channel Bandwidth 5MHz

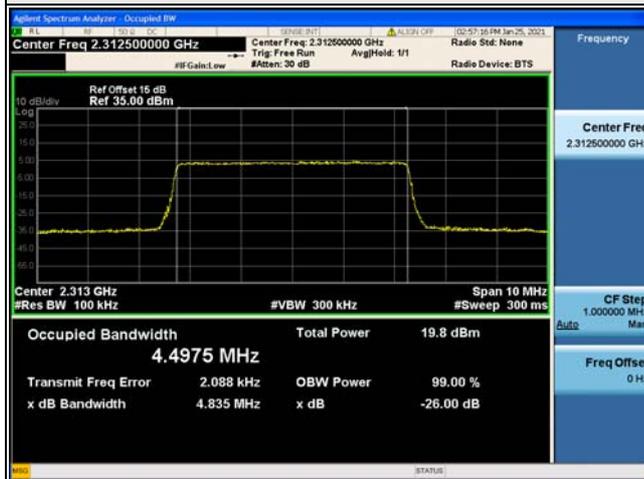
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
27685	2307.5	4.49	4.49	4.49	4.49
27710	2310.0	4.49	4.49	4.49	4.49
27735	2312.5	4.49	4.49	4.50	4.49

LTE Band 30, Channel Bandwidth 10MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
27710	2310.0	8.95	8.96	8.96	8.96

Spectrum Plot of Worst Value

5MHz / 64QAM



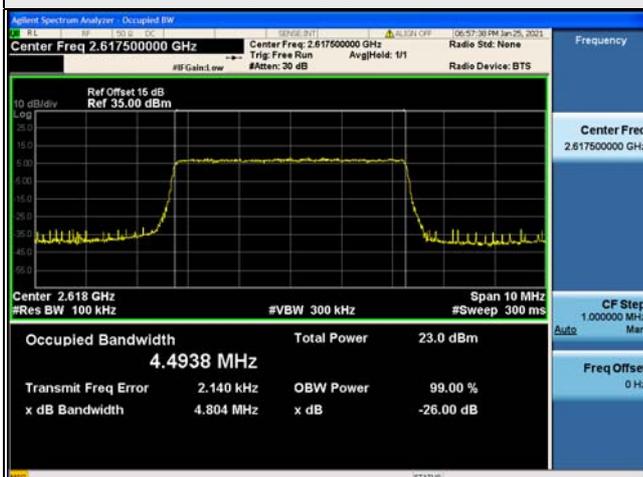
10MHz / 64QAM



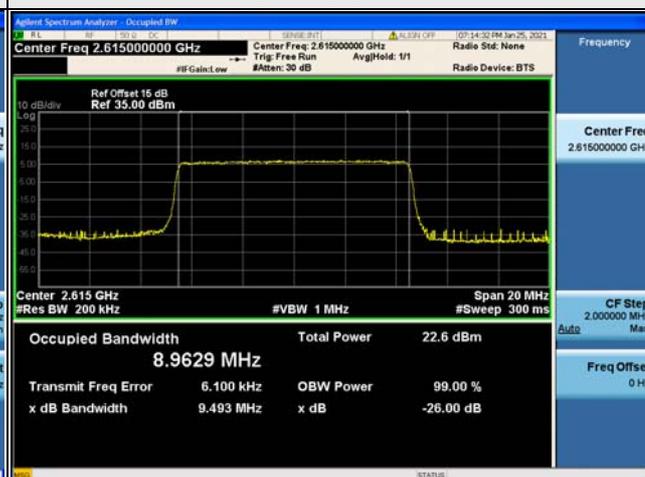
LTE Band 38, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37775	2572.5	4.49	4.49	4.49	4.47
38000	2595.0	4.49	4.49	4.49	4.47
38225	2617.5	4.49	4.48	4.49	4.48
LTE Band 38, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37800	2575.0	8.96	8.95	8.96	8.95
38000	2595.0	8.96	8.95	8.96	8.95
38200	2615.0	8.96	8.95	8.96	8.95
LTE Band 38, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37825	2577.5	13.45	13.44	13.45	13.44
38000	2595.0	13.44	13.43	13.45	13.43
38175	2612.5	13.44	13.43	13.44	13.42
LTE Band 38, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37850	2580.0	17.90	17.90	17.90	17.90
38000	2595.0	17.89	17.90	17.89	17.90
38150	2610.0	17.89	17.90	17.89	17.89

### Spectrum Plot of Worst Value

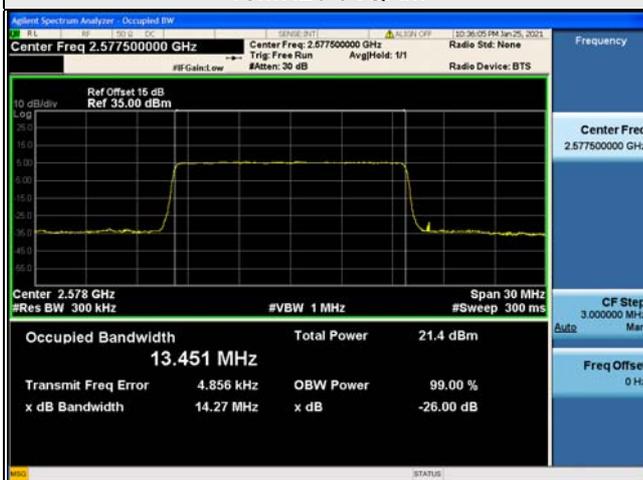
#### 5MHz / QPSK



#### 10MHz / QPSK



#### 15MHz / 64QAM



#### 20MHz / 64QAM



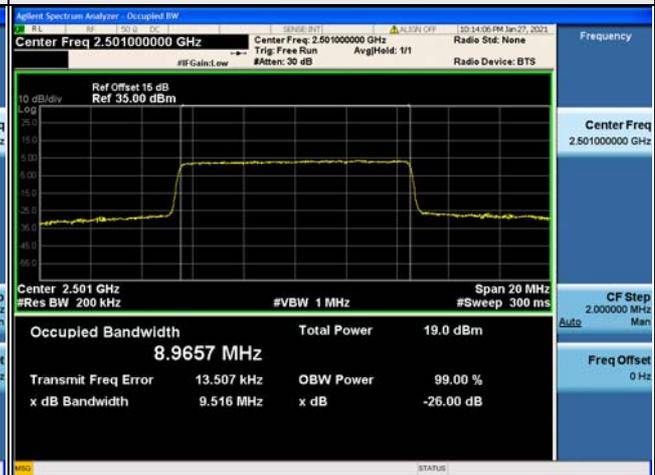
LTE Band 41, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39675	2498.5	4.49	4.49	4.50	4.48
40620	2593.0	4.49	4.49	4.50	4.48
41565	2687.5	4.49	4.49	4.49	4.48
LTE Band 41, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39700	2501.0	8.96	8.97	8.97	8.97
40620	2593.0	8.95	8.96	8.96	8.96
41540	2685.0	8.95	8.96	8.96	8.96
LTE Band 41, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39725	2503.5	13.45	13.45	13.46	13.45
40620	2593.0	13.45	13.44	13.44	13.44
41515	2682.5	13.45	13.44	13.44	13.43
LTE Band 41, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39750	2506.0	17.91	17.91	17.94	17.91
40620	2593.0	17.90	17.89	17.91	17.90
41490	2680.0	17.90	17.89	17.90	17.89

### Spectrum Plot of Worst Value

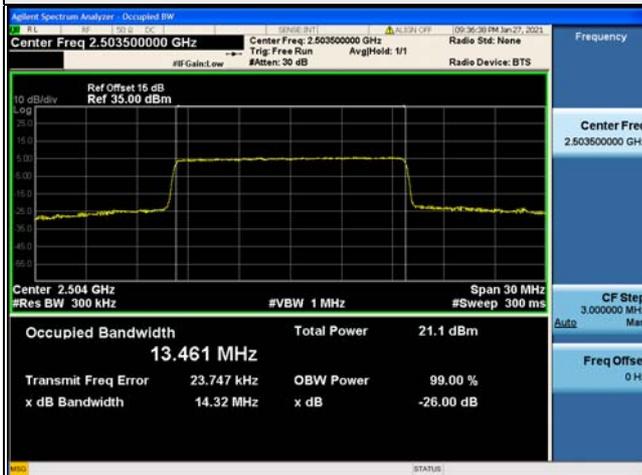
#### 5MHz / 64QAM



#### 10MHz / 256QAM



#### 15MHz / 64QAM



#### 20MHz / 64QAM



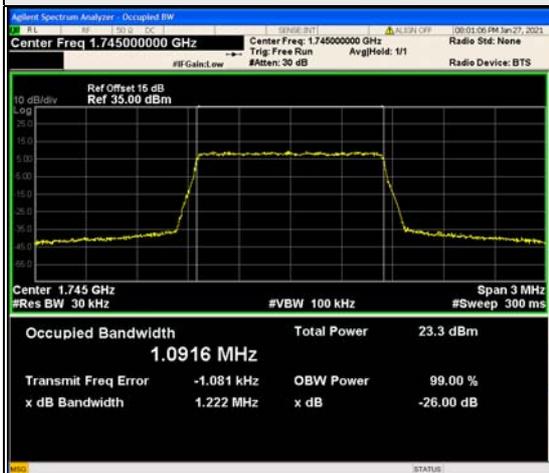
LTE Band 66, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
131979	1710.7	1.09	1.09	1.09	1.08
132322	1745.0	1.09	1.09	1.09	1.09
132665	1779.3	1.09	1.09	1.09	1.09
LTE Band 66, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
131987	1711.5	2.70	2.70	2.70	2.70
132322	1745.0	2.69	2.69	2.70	2.69
132657	1778.5	2.70	2.69	2.70	2.70
LTE Band 66, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
131997	1712.5	4.49	4.49	4.49	4.48
132322	1745.0	4.49	4.49	4.49	4.48
132647	1777.5	4.49	4.49	4.48	4.49
LTE Band 66, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
132022	1715.0	8.96	8.96	8.97	8.95
132322	1745.0	8.95	8.96	8.97	8.95
132622	1775.0	8.95	8.96	8.96	8.97
LTE Band 66, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
132047	1717.5	13.46	13.44	13.44	13.45
132322	1745.0	13.46	13.45	13.45	13.45
132597	1772.5	13.46	13.45	13.45	13.46

LTE Band 66, Channel Bandwidth 20MHz

Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
132072	1720.0	17.90	17.92	17.91	17.91
132322	1745.0	17.92	17.94	17.94	17.94
132572	1770.0	17.94	17.96	17.95	17.96

### Spectrum Plot of Worst Value

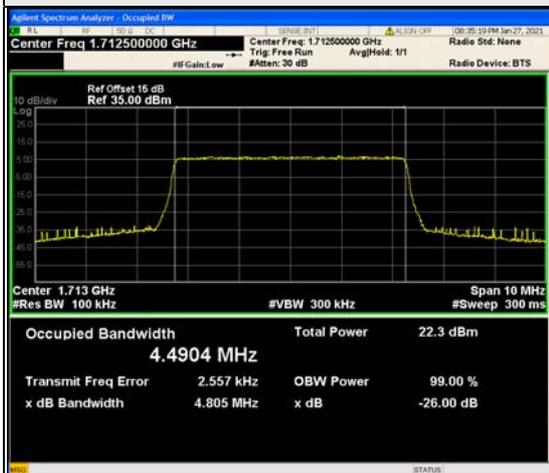
1.4MHz / 16QAM



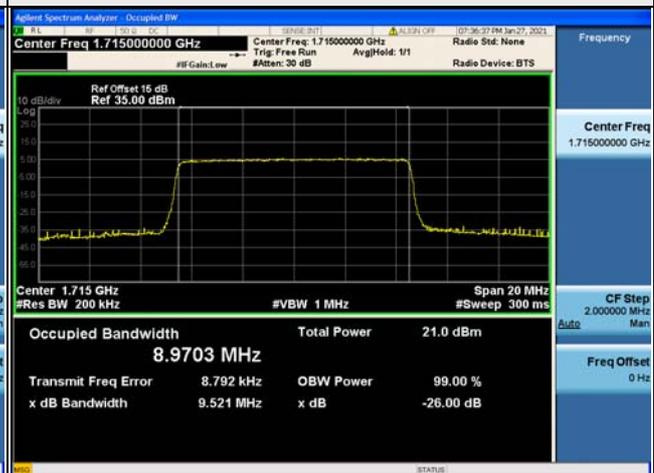
3MHz / 64QAM



5MHz / 16QAM



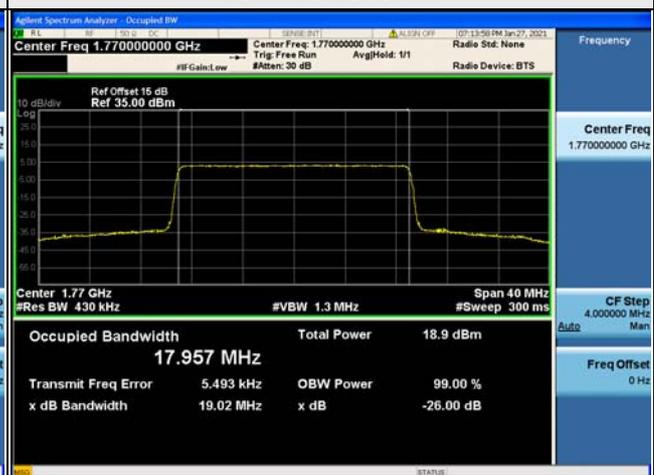
10MHz / 64QAM



15MHz / QPSK



20MHz / 256QAM



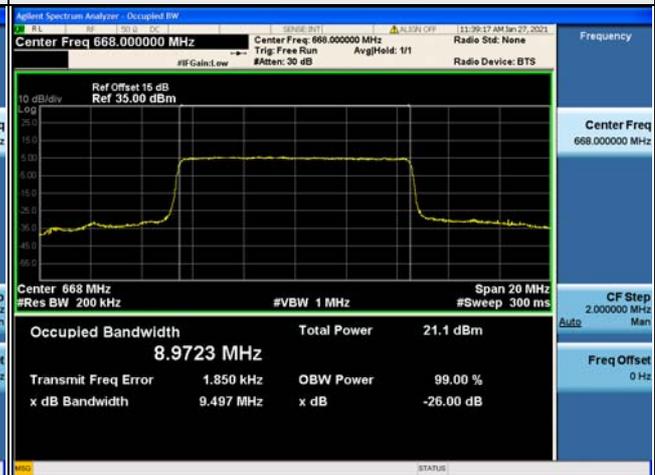
LTE Band 71, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133147	665.5	4.49	4.48	4.48	4.48
133297	680.5	4.49	4.48	4.49	4.48
133447	695.5	4.49	4.49	4.49	4.49
LTE Band 71, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133172	668.0	8.97	8.95	8.97	8.95
133297	680.5	8.95	8.94	8.95	8.95
133422	693.0	8.95	8.94	8.96	8.95
LTE Band 71, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133197	670.5	13.48	13.47	13.47	13.46
133297	680.5	13.45	13.43	13.42	13.41
133397	690.5	13.46	13.45	13.45	13.45
LTE Band 71, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133222	673.0	17.94	17.92	17.92	17.91
133297	680.5	17.93	17.91	17.89	17.87
133372	688.0	17.96	17.96	17.95	17.95

### Spectrum Plot of Worst Value

#### 5MHz / QPSK



#### 10MHz / 64QAM



#### 15MHz / QPSK



#### 20MHz / QPSK



26dB Bandwidth

LTE Band 4, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
19957	1710.7	1.21	1.21	1.21	1.21
20175	1732.5	1.21	1.21	1.22	1.21
20393	1754.3	1.22	1.21	1.21	1.21
LTE Band 4, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
19965	1711.5	2.93	2.90	2.90	2.92
20175	1732.5	2.93	2.92	2.92	2.93
20385	1753.5	2.94	2.91	2.91	2.92
LTE Band 4, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
19975	1712.5	4.80	4.80	4.80	4.81
20175	1732.5	4.82	4.81	4.80	4.80
20375	1752.5	4.82	4.82	4.79	4.82
LTE Band 4, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20000	1715.0	9.52	9.48	9.50	9.51
20175	1732.5	9.51	9.51	9.51	9.49
20350	1750.0	9.51	9.50	9.50	9.50
LTE Band 4, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20025	1717.5	14.24	14.23	14.26	14.23
20175	1732.5	14.25	14.23	14.25	14.23
20325	1747.5	14.24	14.24	14.24	14.24

LTE Band 4, Channel Bandwidth 20MHz

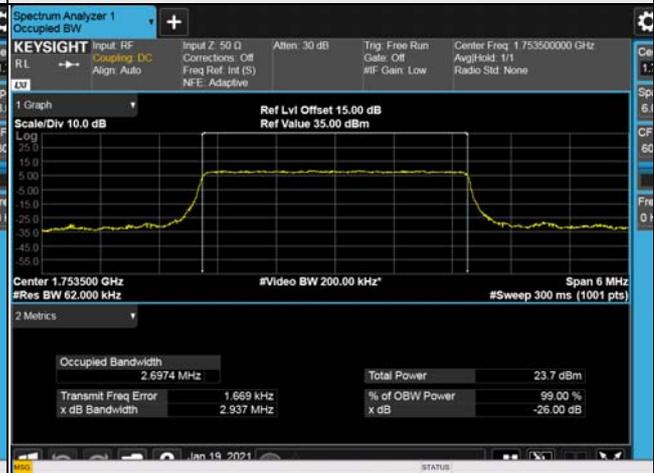
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20050	1720.0	19.02	18.99	19.01	18.99
20175	1732.5	19.02	19.02	19.02	19.02
20300	1745.0	19.03	19.01	19.02	19.01

### Spectrum Plot of Worst Value

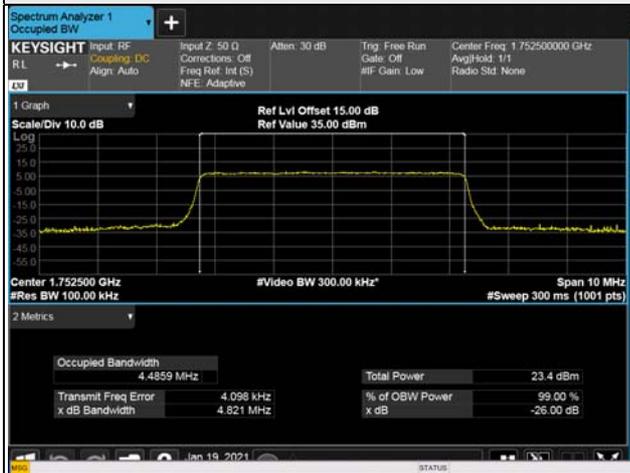
1.4MHz / 64QAM



3MHz / QPSK



5MHz / QPSK



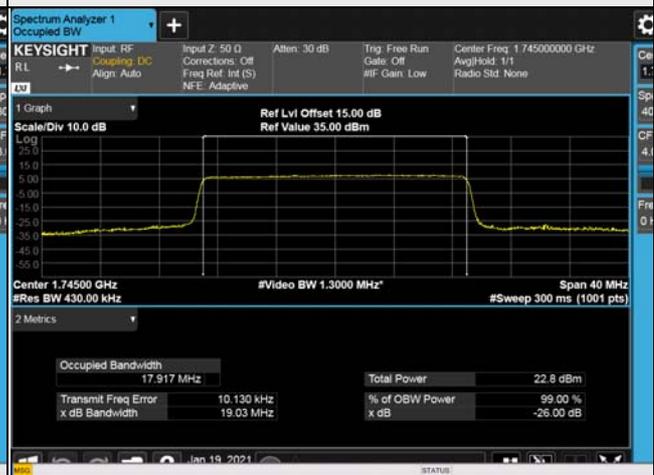
10MHz / QPSK



15MHz / QPSK



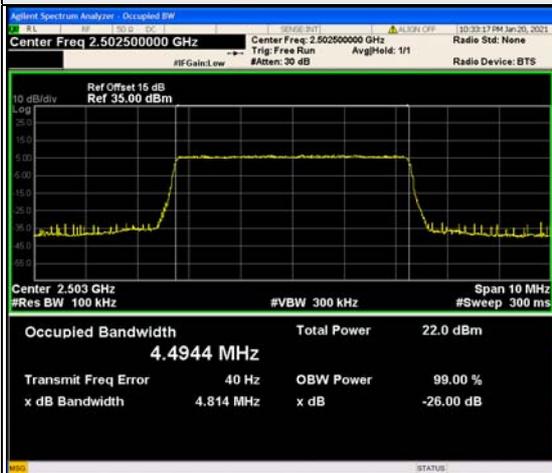
20MHz / QPSK



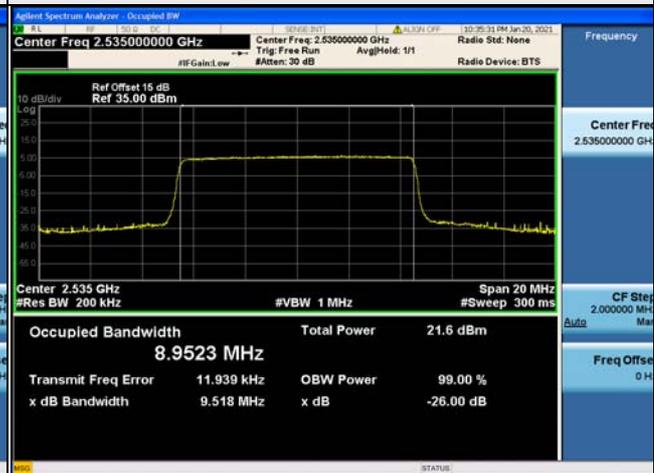
LTE Band 7, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20775	2502.5	4.78	4.81	4.81	4.79
21100	2535.0	4.80	4.78	4.81	4.80
21425	2567.5	4.79	4.80	4.81	4.81
LTE Band 7, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20800	2505.0	9.49	9.51	9.49	9.50
21100	2535.0	9.49	9.50	9.52	9.48
21400	2565.0	9.49	9.50	9.50	9.49
LTE Band 7, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20825	2507.5	14.25	14.24	14.23	14.21
21100	2535.0	14.23	14.24	14.23	14.22
21375	2562.5	14.26	14.25	14.22	14.22
LTE Band 7, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
20850	2510.0	19.01	19.00	18.99	19.00
21100	2535.0	19.00	19.03	19.00	19.01
21350	2560.0	19.02	19.04	19.02	19.02

### Spectrum Plot of Worst Value

5MHz / 64QAM



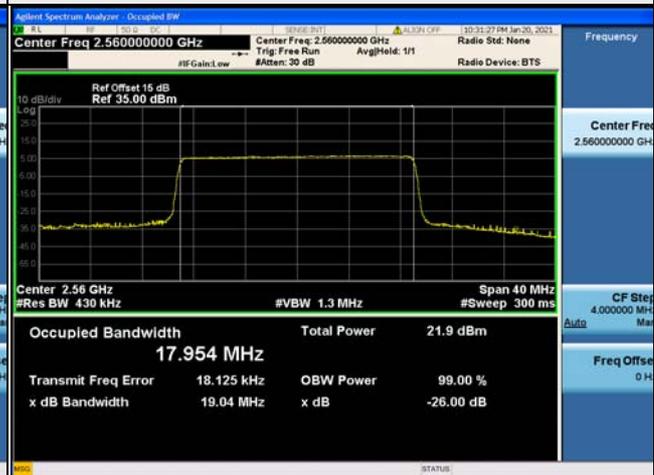
10MHz / 64QAM



15MHz / QPSK



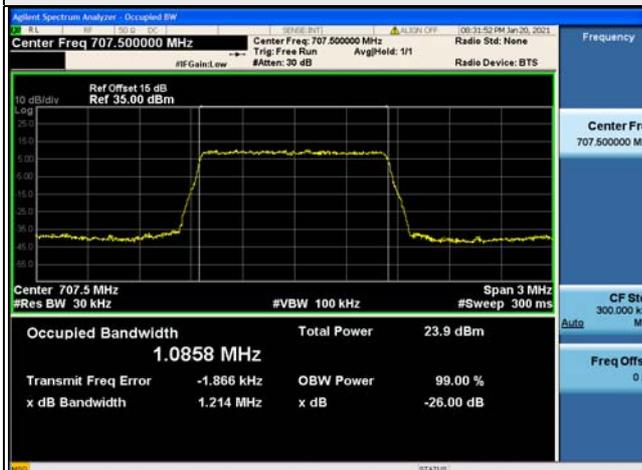
20MHz / 16QAM



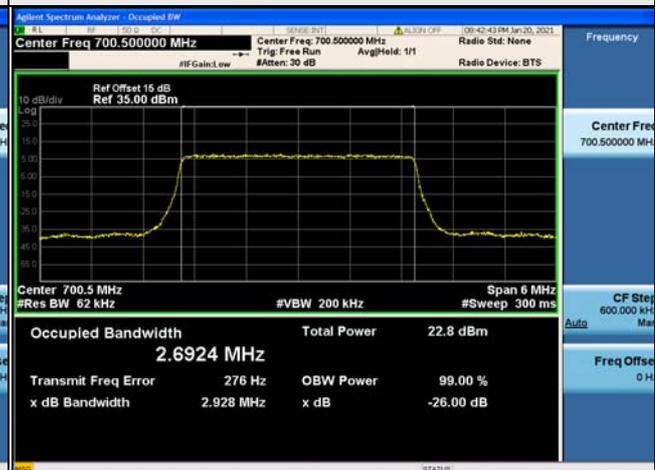
LTE Band 12, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23017	699.7	1.21	1.21	1.21	1.21
23095	707.5	1.21	1.21	1.21	1.21
23173	715.3	1.21	1.21	1.21	1.21
LTE Band 12, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23025	700.5	2.91	2.93	2.90	2.91
23095	707.5	2.91	2.92	2.90	2.91
23165	714.5	2.91	2.92	2.89	2.90
LTE Band 12, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23035	701.5	4.80	4.80	4.82	4.79
23095	707.5	4.80	4.80	4.82	4.81
23155	713.5	4.80	4.78	4.84	4.80
LTE Band 12, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23060	704.0	9.50	9.51	9.52	9.50
23095	707.5	9.51	9.50	9.51	9.50
23130	711.0	9.52	9.50	9.50	9.50

### Spectrum Plot of Worst Value

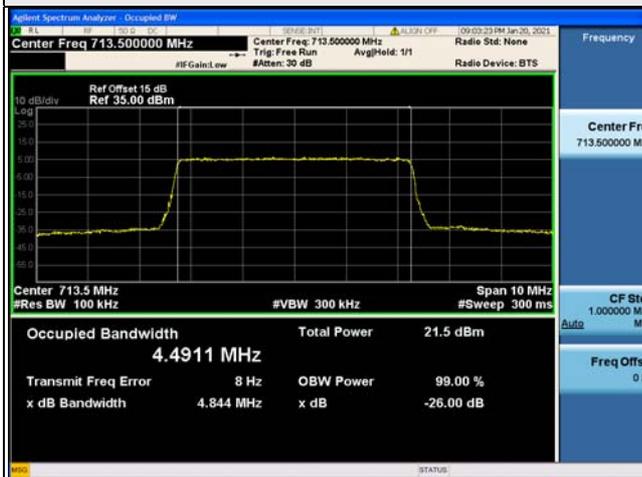
#### 1.4MHz / QPSK



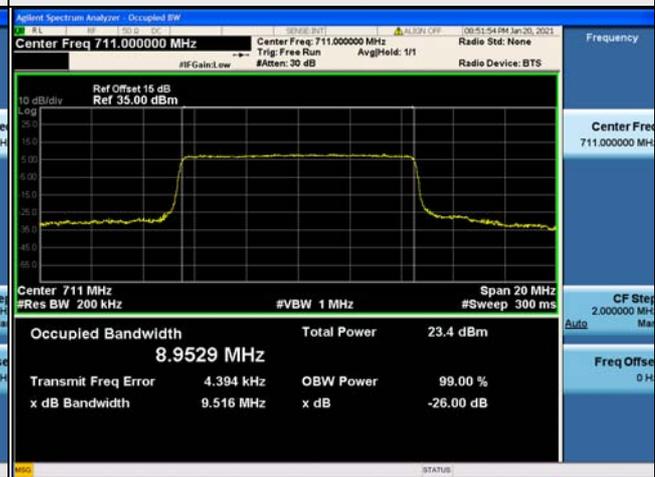
#### 3MHz / 16QAM



#### 5MHz / 64QAM



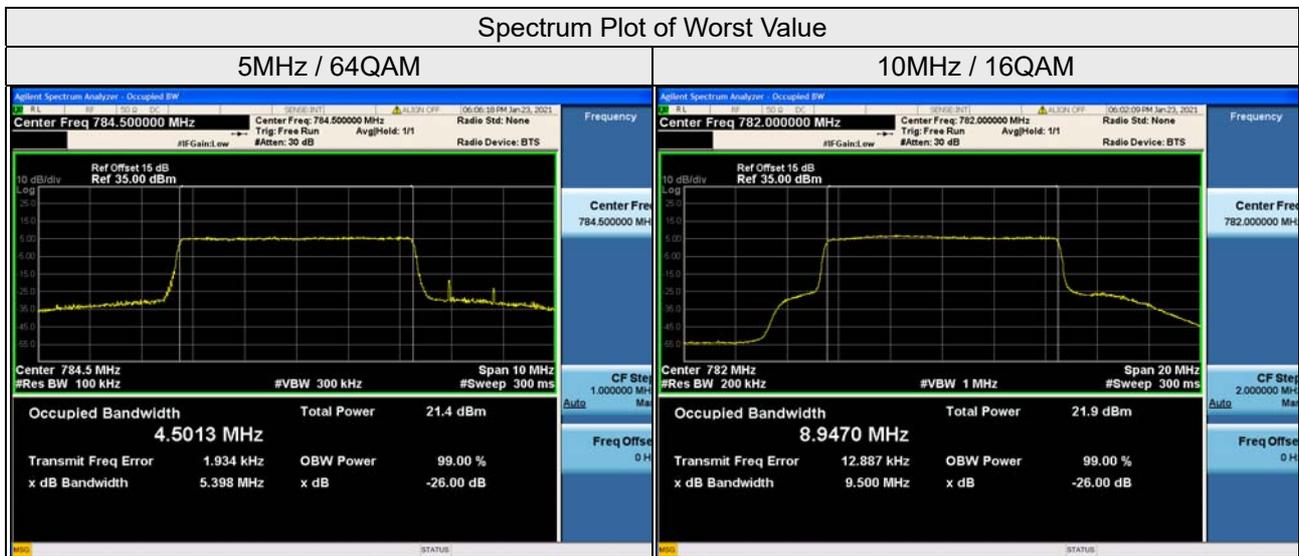
#### 10MHz / QPSK



LTE Band 13, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23205	779.5	4.78	4.78	4.83	4.79
23230	782.0	4.81	4.81	5.11	4.80
23255	784.5	4.81	4.81	5.40	4.82

LTE Band 13, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23230	782.0	9.50	9.50	9.49	9.49



LTE Band 17, Channel Bandwidth 5MHz

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23755	706.5	4.79	4.78	4.79	4.81
23790	710.0	4.82	4.79	4.81	4.80
23825	713.5	4.84	4.79	4.80	4.80

LTE Band 17, Channel Bandwidth 10MHz

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
23780	709.0	9.50	9.51	9.53	9.50
23790	710.0	9.52	9.49	9.53	9.49
23800	711.0	9.50	9.50	9.52	9.51

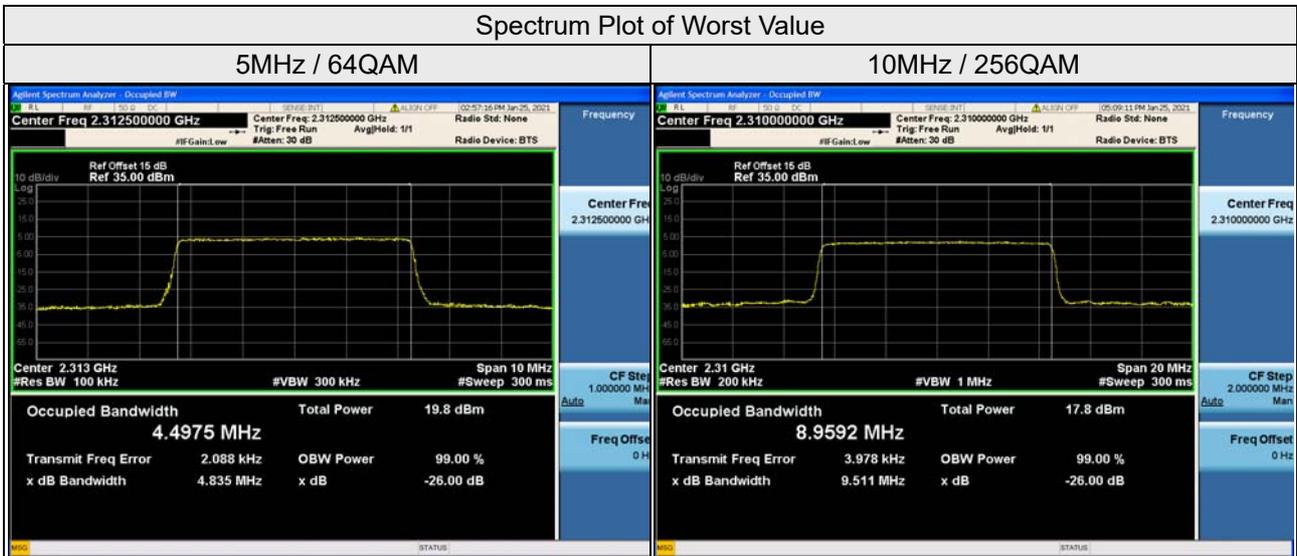
Spectrum Plot of Worst Value



LTE Band 30, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
27685	2307.5	4.79	4.80	4.82	4.82
27710	2310.0	4.81	4.79	4.82	4.81
27735	2312.5	4.78	4.80	4.84	4.80

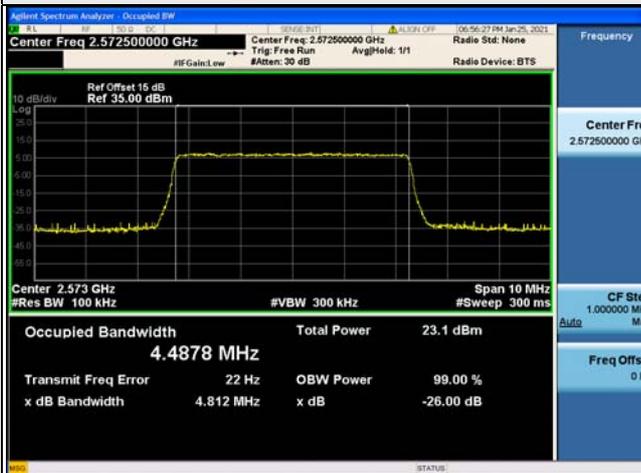
LTE Band 30, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
27710	2310.0	9.51	9.50	9.51	9.51



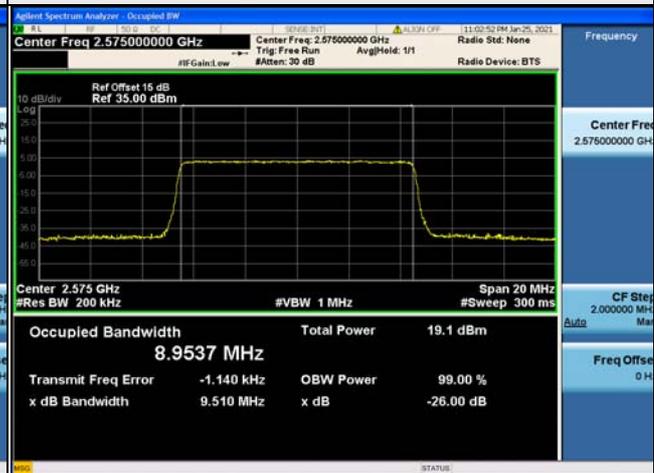
LTE Band 38, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37775	2572.5	4.81	4.77	4.80	4.78
38000	2595.0	4.81	4.77	4.80	4.79
38225	2617.5	4.80	4.79	4.80	4.79
LTE Band 38, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37800	2575.0	9.49	9.49	9.50	9.51
38000	2595.0	9.49	9.49	9.48	9.50
38200	2615.0	9.49	9.50	9.51	9.50
LTE Band 38, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37825	2577.5	14.24	14.22	14.27	14.22
38000	2595.0	14.24	14.22	14.27	14.20
38175	2612.5	14.21	14.23	14.23	14.21
LTE Band 38, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
37850	2580.0	19.00	18.99	18.99	18.99
38000	2595.0	18.99	18.98	18.98	18.98
38150	2610.0	18.98	18.99	18.99	18.99

### Spectrum Plot of Worst Value

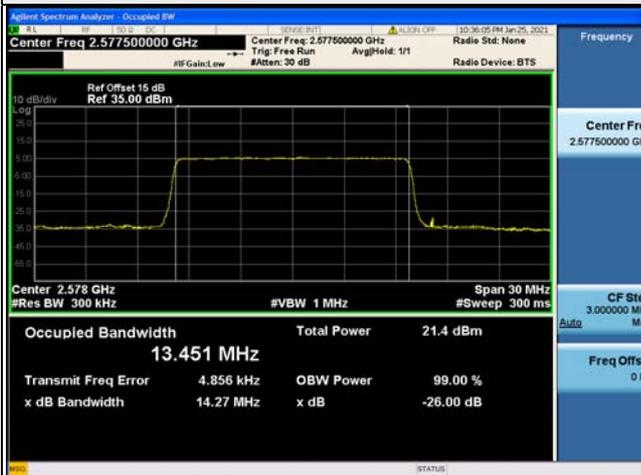
#### 5MHz / QPSK



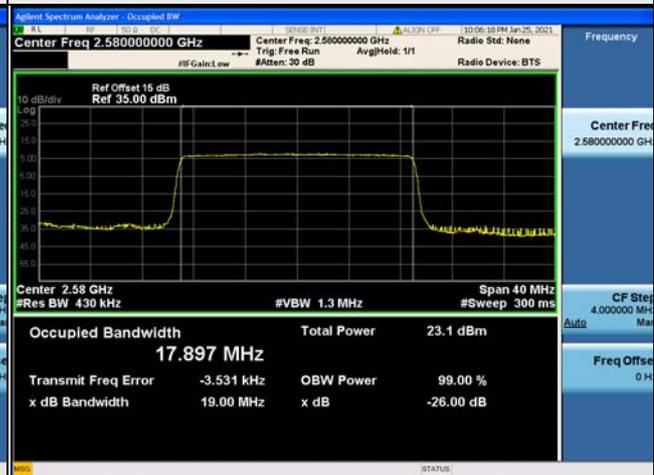
#### 10MHz / 256QAM



#### 15MHz / 64QAM



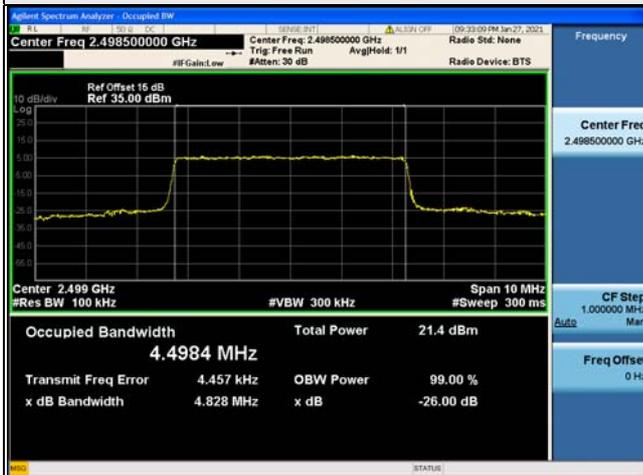
#### 20MHz / QPSK



LTE Band 41, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39675	2498.5	4.48	4.80	4.83	4.80
40620	2593.0	4.80	4.79	4.80	4.78
41565	2687.5	4.80	4.78	4.78	4.80
LTE Band 41, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39700	2501.0	9.49	9.50	9.53	9.52
40620	2593.0	9.49	9.51	9.52	9.51
41540	2685.0	9.48	9.49	9.50	9.51
LTE Band 41, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39725	2503.5	14.27	14.28	14.32	14.24
40620	2593.0	14.26	14.24	14.25	14.21
41515	2682.5	14.22	14.23	14.24	14.24
LTE Band 41, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
39750	2506.0	19.06	19.04	19.06	19.03
40620	2593.0	19.01	19.00	19.01	19.00
41490	2680.0	18.99	18.98	18.99	18.98

### Spectrum Plot of Worst Value

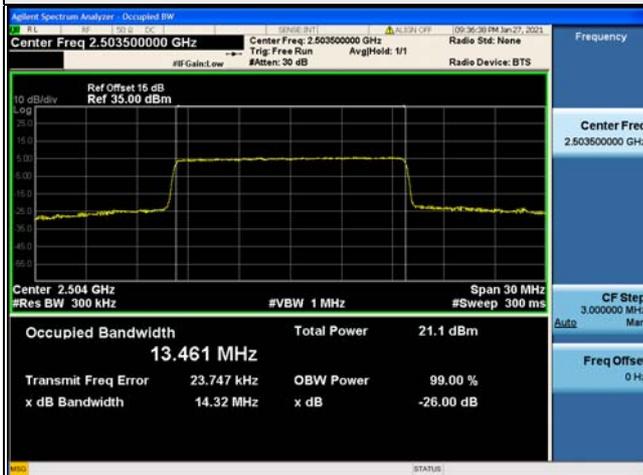
#### 5MHz / 64QAM



#### 10MHz / 64QAM



#### 15MHz / 64QAM



#### 20MHz / 64QAM



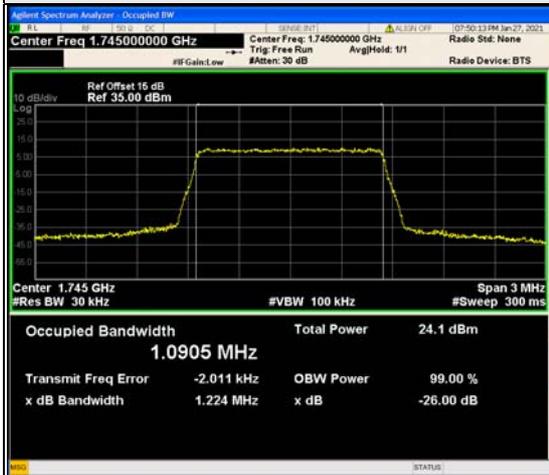
LTE Band 66, Channel Bandwidth 1.4MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
131979	1710.7	1.22	1.22	1.22	1.22
132322	1745.0	1.22	1.22	1.22	1.20
132665	1779.3	1.22	1.22	1.21	1.22
LTE Band 66, Channel Bandwidth 3MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
131987	1711.5	2.90	2.92	2.91	2.92
132322	1745.0	2.91	2.93	2.91	2.91
132657	1778.5	2.91	2.92	2.91	2.91
LTE Band 66, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
131997	1712.5	4.80	4.81	4.80	4.78
132322	1745.0	4.78	4.79	4.80	4.81
132647	1777.5	4.79	4.79	4.80	4.80
LTE Band 66, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
132022	1715.0	9.51	9.49	9.52	9.50
132322	1745.0	9.49	9.50	9.52	9.49
132622	1775.0	9.49	9.51	9.51	9.55
LTE Band 66, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
132047	1717.5	14.25	14.23	14.24	14.23
132322	1745.0	14.24	14.26	14.25	14.23
132597	1772.5	14.25	14.25	14.25	14.23

LTE Band 66, Channel Bandwidth 20MHz

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
132072	1720.0	18.99	19.00	18.98	18.99
132322	1745.0	19.01	19.00	19.01	19.01
132572	1770.0	19.04	19.02	19.04	19.02

### Spectrum Plot of Worst Value

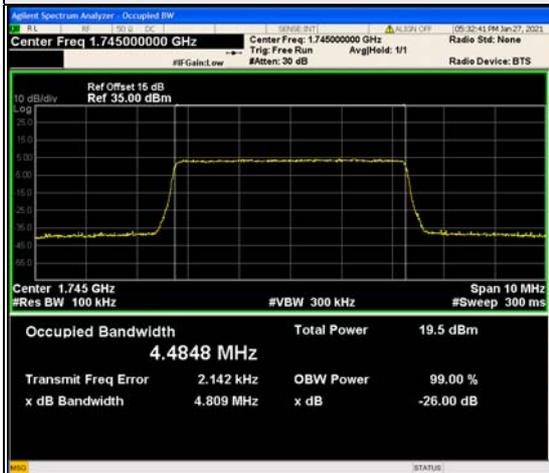
**1.4MHz / QPSK**



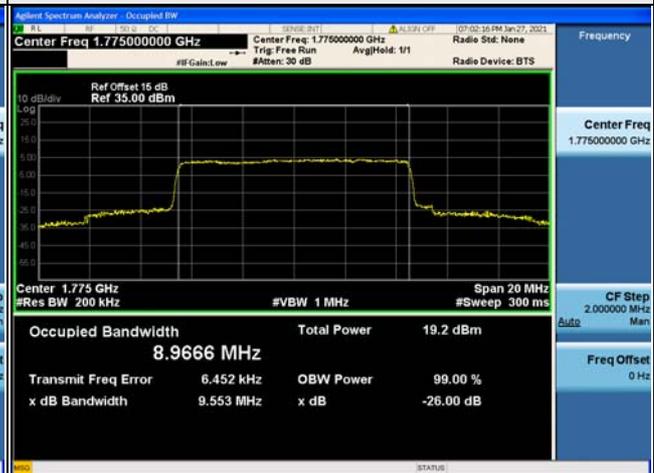
**3MHz / 16QAM**



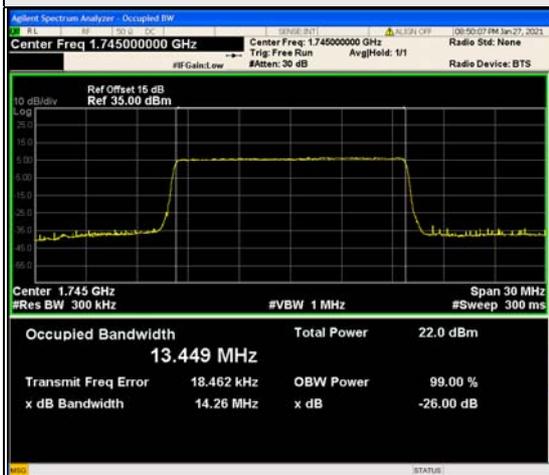
**5MHz / 256QAM**



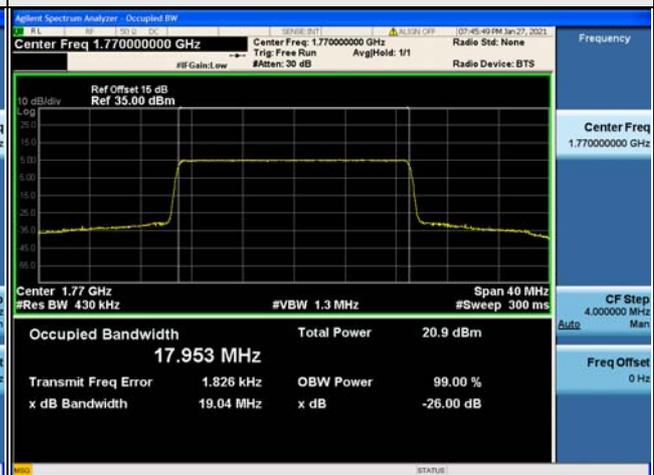
**10MHz / 256QAM**



**15MHz / 16QAM**



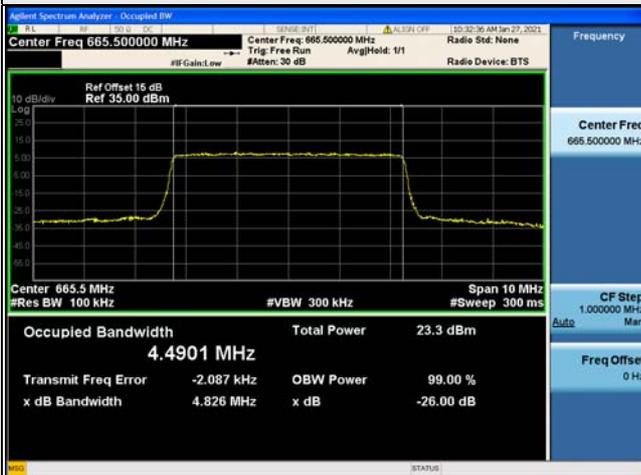
**20MHz / 64QAM**



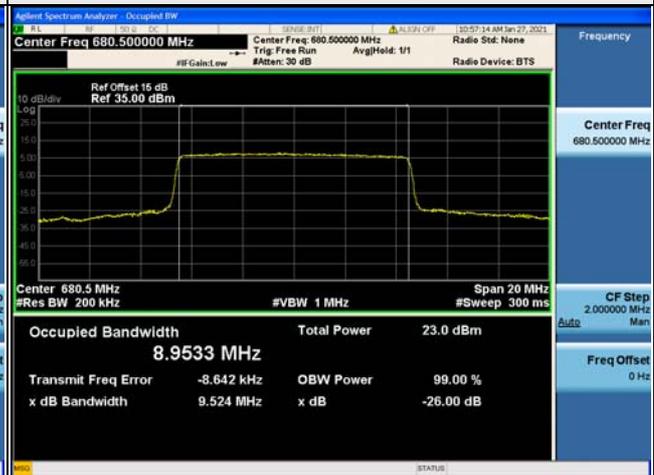
LTE Band 71, Channel Bandwidth 5MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133147	665.5	4.83	4.79	4.79	4.80
133297	680.5	4.82	4.80	4.81	4.80
133447	695.5	4.82	4.80	4.80	4.81
LTE Band 71, Channel Bandwidth 10MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133172	668.0	9.52	9.51	9.50	9.50
133297	680.5	9.52	9.51	9.49	9.49
133422	693.0	9.49	9.50	9.52	9.49
LTE Band 71, Channel Bandwidth 15MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133197	670.5	14.25	14.25	14.25	14.23
133297	680.5	14.26	14.25	14.26	14.22
133397	690.5	14.26	14.26	14.26	14.21
LTE Band 71, Channel Bandwidth 20MHz					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		QPSK	16QAM	64QAM	256QAM
133222	673.0	19.03	19.00	19.00	18.99
133297	680.5	20.48	19.04	19.00	19.00
133372	688.0	19.04	19.05	19.04	19.02

### Spectrum Plot of Worst Value

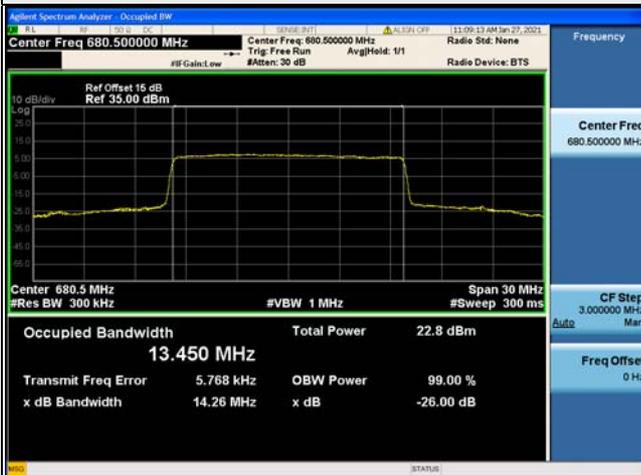
#### 5MHz / QPSK



#### 10MHz / QPSK



#### 15MHz / QPSK



#### 20MHz / QPSK



## 4.5 Channel Edge / Out-of-Band Emissions Measurement

### 4.5.1 Limits of Band Edge / Out-of-Band Emissions Measurement

For LTE Band 4, 66:

According to FCC 27.53(h) for operations in the 1695-1710MHz, 1710-1755MHz, 1755-1780 MHz, 1915-1920MHz, 1995-2000 MHz, 2000-2020MHz, 2110-2155MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log (P)$  dB.

For LTE Band 7, 38, 41:

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For LTE Band 12, 71:

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For LTE Band 13:

According to FCC 27.53(c)(2) for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB.

According to 27.53(c)(4) On all frequencies between 763-775MHz and 793-806MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations

For LTE Band 17:

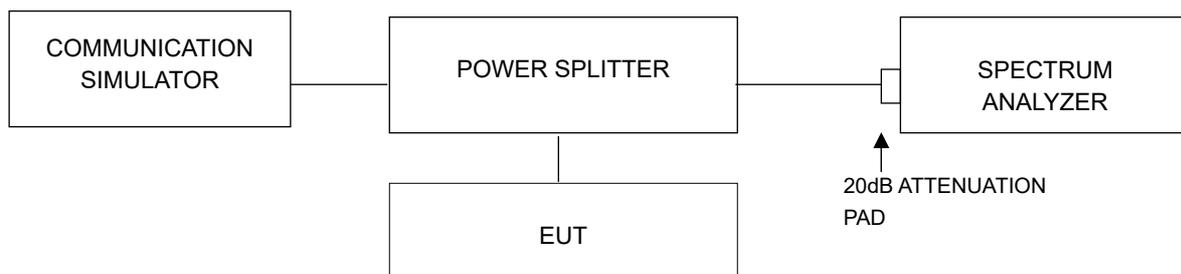
According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For LTE Band 30:

According to FCC 27.53(a) (4) For mobile and portable stations operating in the 2305-2315MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than:  $43 + 10 \log (P)$  dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than  $55 + 10 \log (P)$  dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345MHz, not less than  $61 + 10 \log (P)$  dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than  $67 + 10 \log (P)$  dB on all frequencies between 2328 and 2337 MHz;
- (ii) By a factor of not less than  $43 + 10 \log (P)$  dB on all frequencies between 2300 and 2305MHz,  $55 + 10 \log (P)$  dB on all frequencies between 2296 and 2300 MHz,  $61 + 10 \log (P)$  dB on all frequencies between 2292 and 2296 MHz,  $67 + 10 \log (P)$  dB on all frequencies between 2288 and 2292 MHz, and  $70 + 10 \log (P)$  dB below 2288 MHz;
- (iii) By a factor of not less than  $43 + 10 \log (P)$  dB on all frequencies between 2360 and 2365MHz, and not less than  $70 + 10 \log (P)$  dB above 2365MHz.

#### 4.5.2 Test Setup

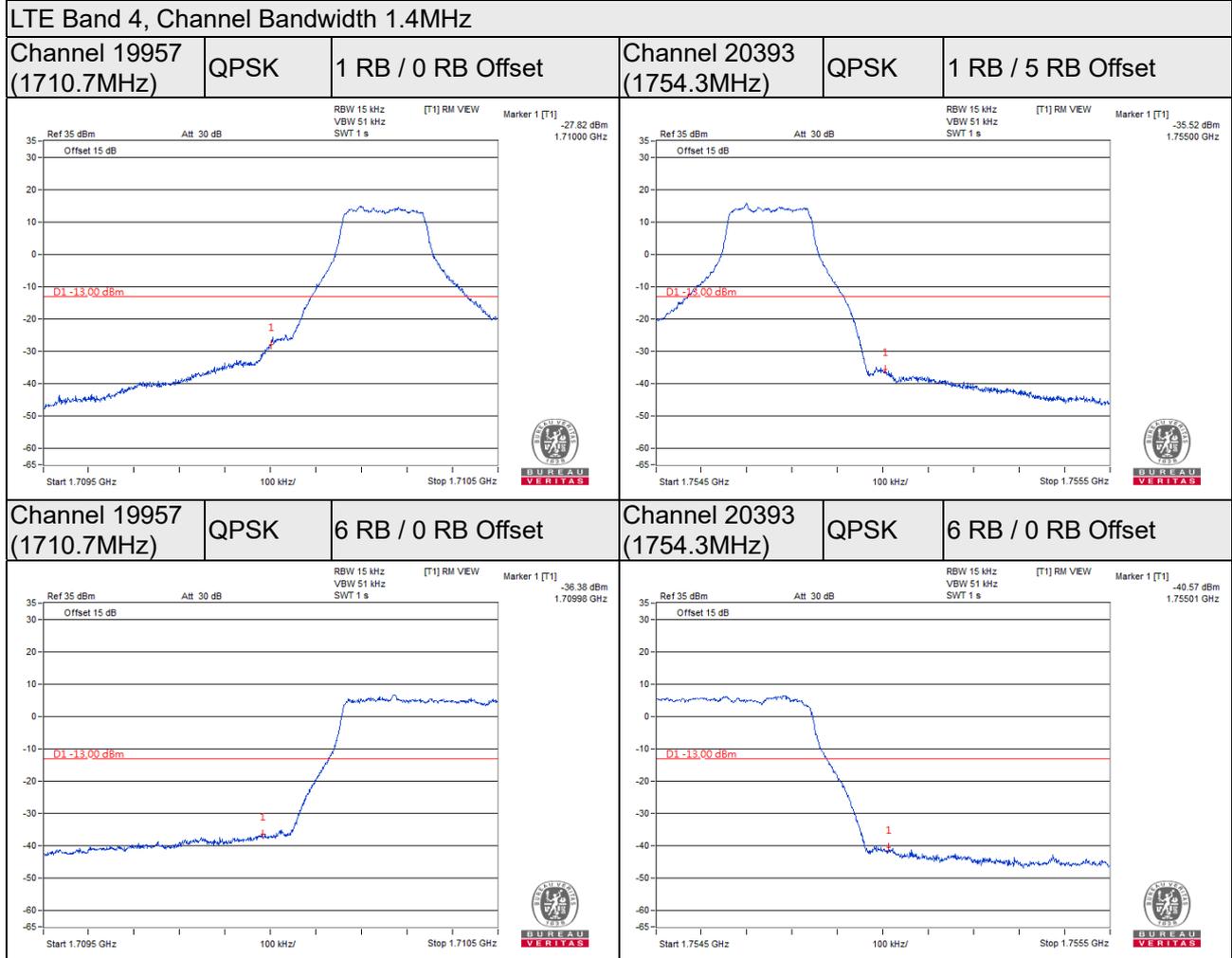


#### 4.5.3 Test Procedures

- a. The EUT was set up for the rated peak power. The power was measured with Spectrum Analyzer. Band edge measurements were done at 2 channels: low, middle and high operational frequency range. Emission mask measurements were done at 3 channels: low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 15kHz and VB of the spectrum is 51kHz (LTE Channel Bandwidth 1.4MHz).
- c. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Channel Bandwidth 3MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 51kHz and VB of the spectrum is 160kHz (LTE Channel Bandwidth 5MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 10MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Channel Bandwidth 15MHz).
- g. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 200kHz and VB of the spectrum is 1MHz (LTE Channel Bandwidth 20MHz).
- h. Except LTE Band 12 and LTE Band 17 measurement procedure refer 27.53(g)(m)(6).
- i. Record the max trace plot into the test report.

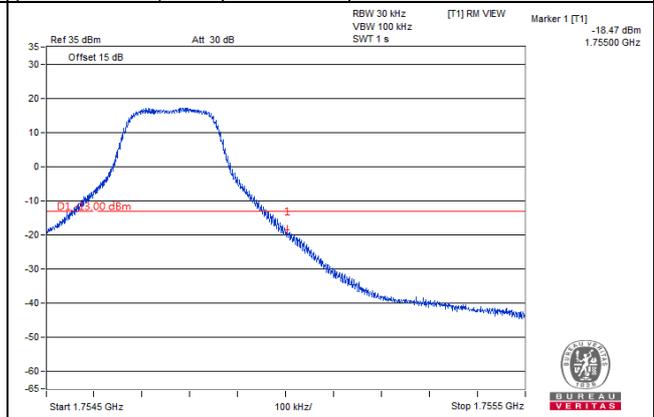
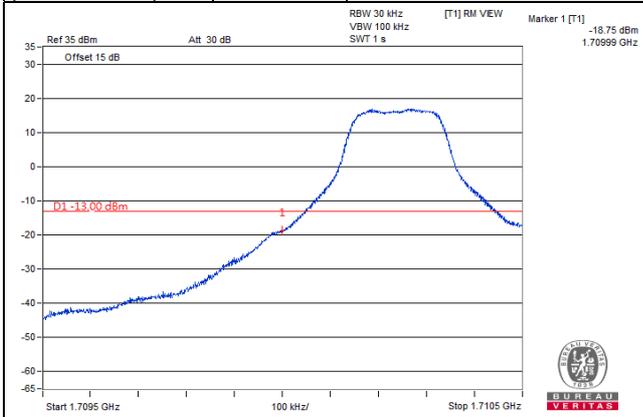
### 4.5.4 Test Results

#### Band Edge

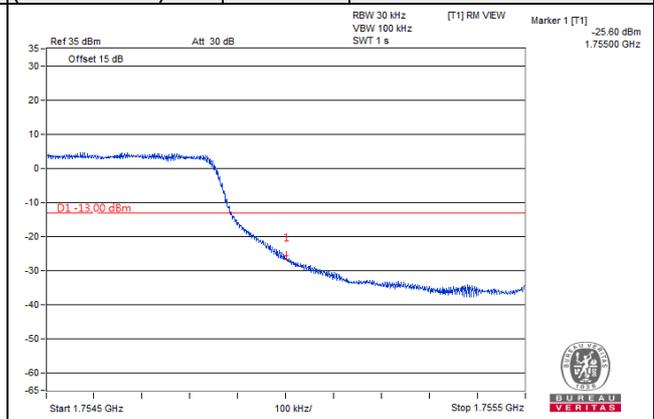
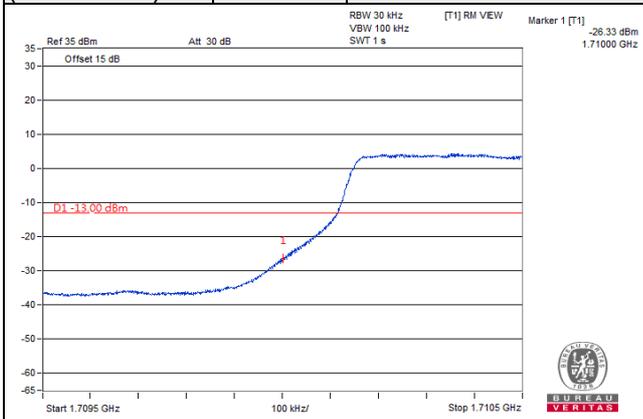


**LTE Band 4, Channel Bandwidth 3MHz**

<b>Channel 19965 (1711.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20385 (1753.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 14 RB Offset</b>
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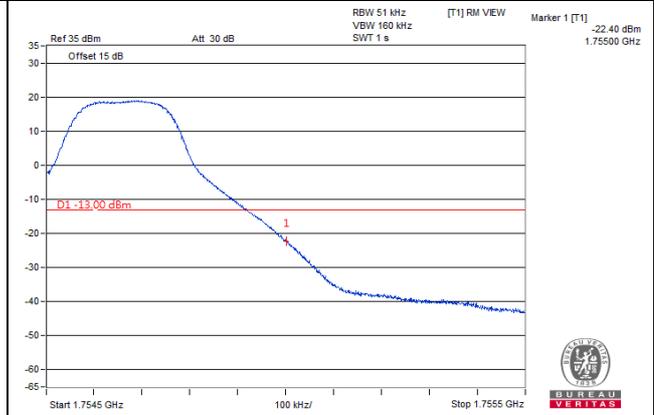
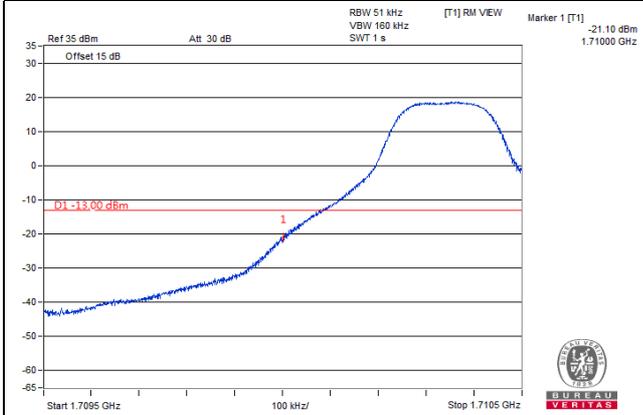


<b>Channel 19965 (1711.5MHz)</b>	<b>QPSK</b>	<b>15 RB / 0 RB Offset</b>	<b>Channel 20385 (1753.5MHz)</b>	<b>QPSK</b>	<b>15 RB / 0 RB Offset</b>
--------------------------------------	-------------	----------------------------	--------------------------------------	-------------	----------------------------

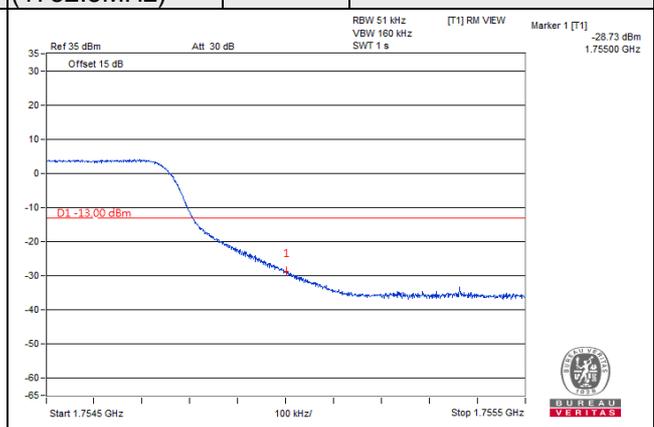
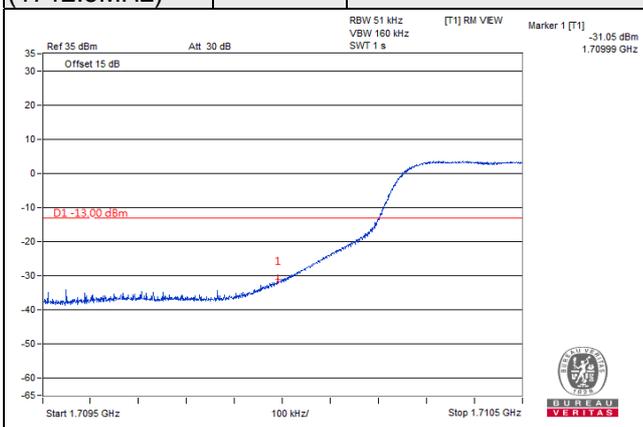


**LTE Band 4, Channel Bandwidth 5MHz**

<b>Channel 19975 (1712.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20375 (1752.5MHz)</b>	<b>QPSK</b>	<b>1 RB / 24 RB Offset</b>
--------------------------------------	-------------	---------------------------	--------------------------------------	-------------	----------------------------

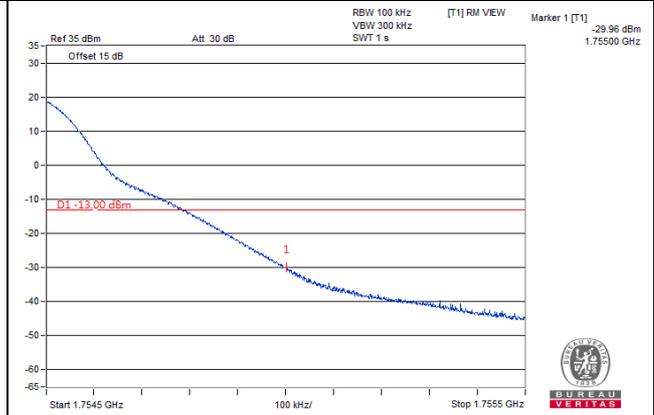
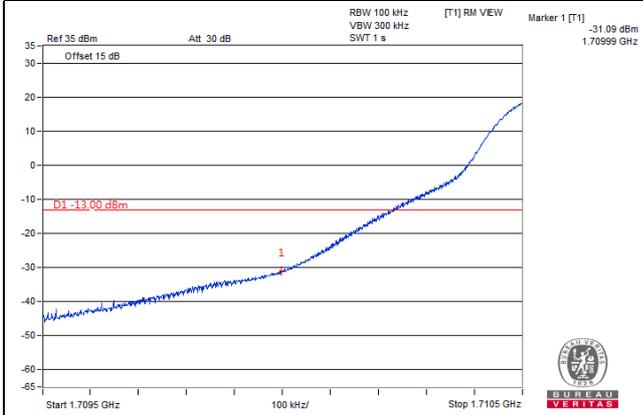


<b>Channel 19975 (1712.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>	<b>Channel 20375 (1752.5MHz)</b>	<b>QPSK</b>	<b>25 RB / 0 RB Offset</b>
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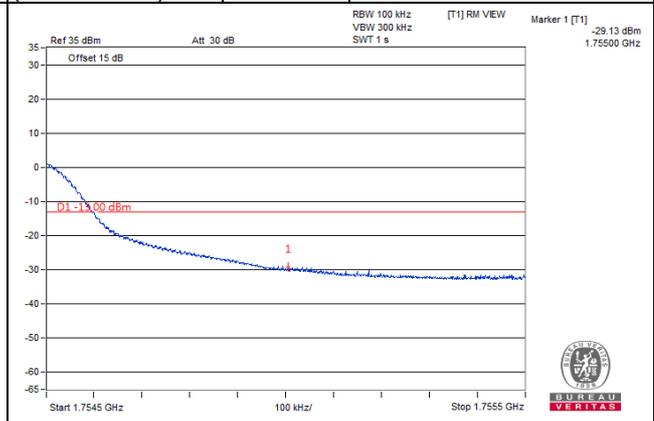
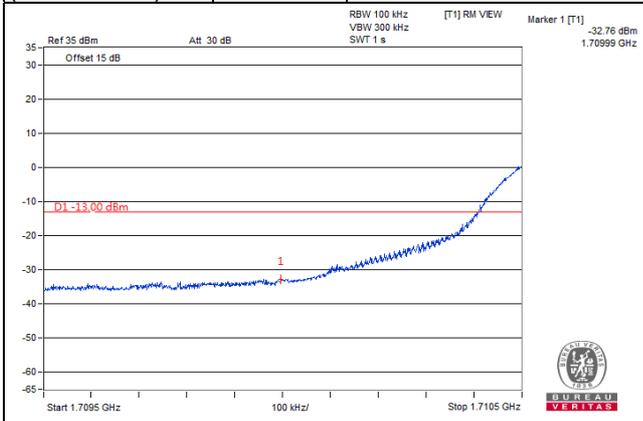


**LTE Band 4, Channel Bandwidth 10MHz**

<b>Channel 20000 (1715.0MHz)</b>	<b>QPSK</b>	<b>1 RB / 0 RB Offset</b>	<b>Channel 20350 (1750.0MHz)</b>	<b>QPSK</b>	<b>1 RB / 49 RB Offset</b>
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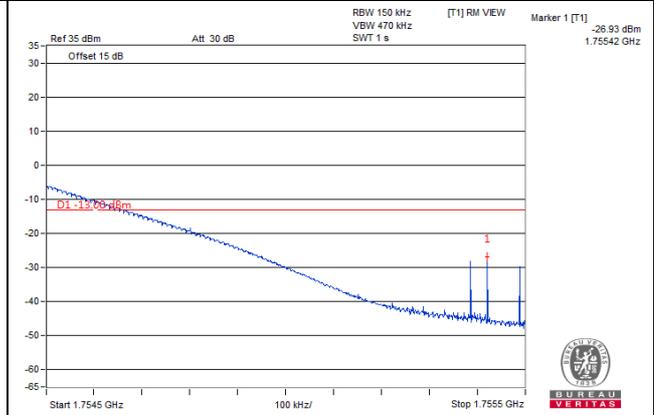
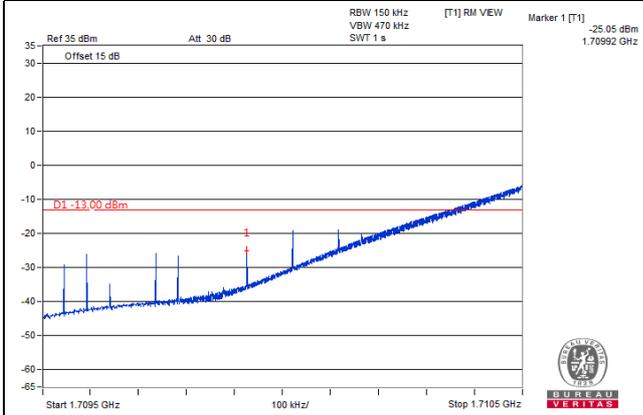


<b>Channel 20000 (1715.0MHz)</b>	<b>QPSK</b>	<b>50 RB / 0 RB Offset</b>	<b>Channel 20350 (1750.0MHz)</b>	<b>QPSK</b>	<b>50 RB / 0 RB Offset</b>
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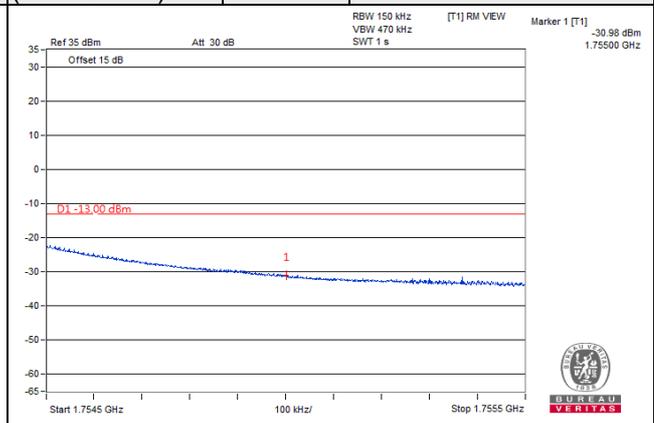
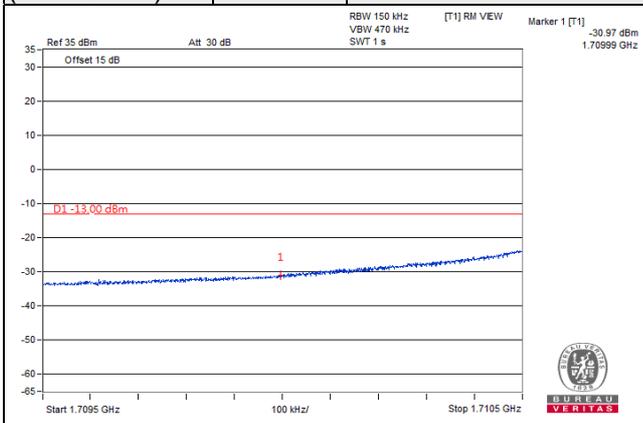


LTE Band 4, Channel Bandwidth 15MHz

Channel 20025 (1717.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 20325 (1747.5MHz)	QPSK	1 RB / 74 RB Offset
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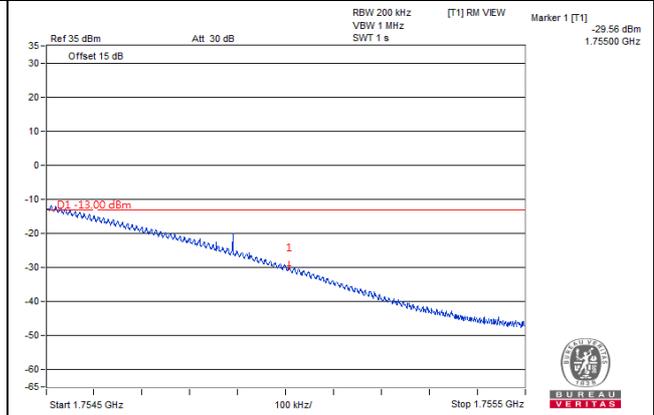
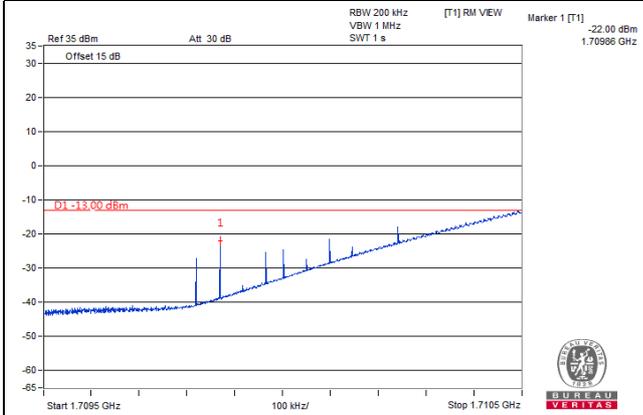


Channel 20025 (1717.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 20325 (1747.5MHz)	QPSK	75 RB / 0 RB Offset
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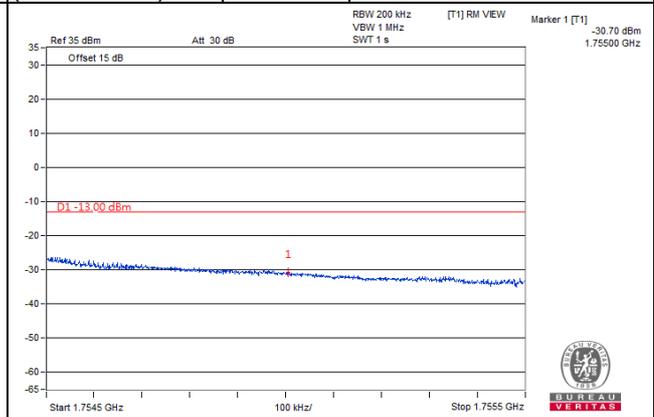
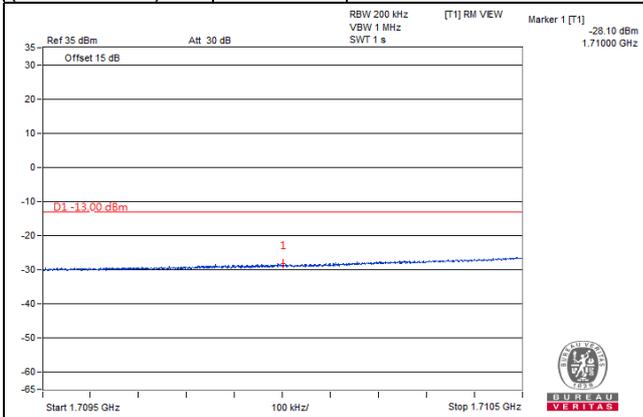


LTE Band 4, Channel Bandwidth 20MHz

Channel 20050 (1720.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 20300 (1745.0MHz)	QPSK	1 RB / 99 RB Offset
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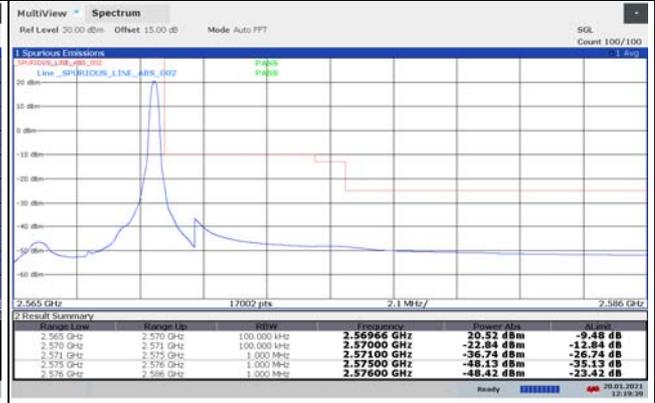
Channel 20050 (1720.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 20300 (1745.0MHz)	QPSK	100 RB / 0 RB Offset
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### Out-of-Band Emission

LTE Band 7, Channel Bandwidth 5MHz

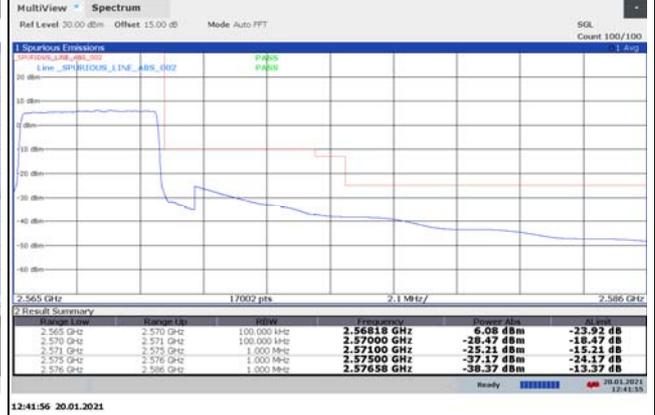
Channel 20775 (2502.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 21425 (2567.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 20775 (2502.5MHz)	QPSK	25 RB / 0 RB Offset
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Channel 21425 (2567.5MHz)	QPSK	25 RB / 0 RB Offset
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LTE Band 7, Channel Bandwidth 10MHz

Channel 20800  
(2505.0MHz)

QPSK

1 RB / 0 RB Offset

Channel 21400  
(2565.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 20800  
(2505.0MHz)

QPSK

50 RB / 0 RB Offset

Channel 21400  
(2565.0MHz)

QPSK

50 RB / 0 RB Offset



LTE Band 7, Channel Bandwidth 15MHz

Channel 20825  
(2507.5MHz)

QPSK

1 RB / 0 RB Offset

Channel 21375  
(2562.5MHz)

QPSK

1 RB / 74 RB Offset



Channel 20825  
(2507.5MHz)

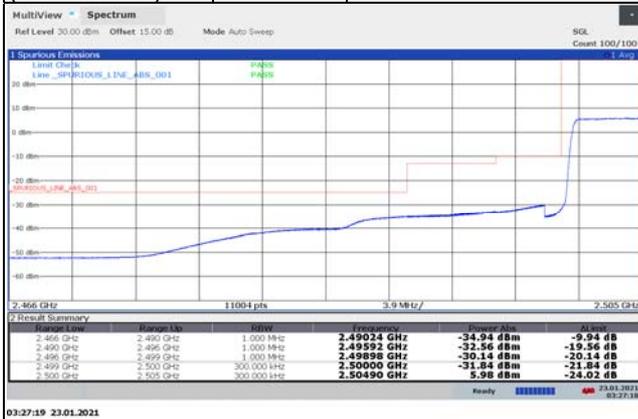
QPSK

75 RB / 0 RB Offset

Channel 21375  
(2562.5MHz)

QPSK

75 RB / 0 RB Offset



LTE Band 7, Channel Bandwidth 20MHz

Channel 20850  
(2510.0MHz)

QPSK

1 RB / 0 RB Offset

Channel 21350  
(2560.0MHz)

QPSK

1 RB / 99 RB Offset



Channel 20850  
(2510.0MHz)

QPSK

100 RB / 0 RB Offset

Channel 21350  
(2560.0MHz)

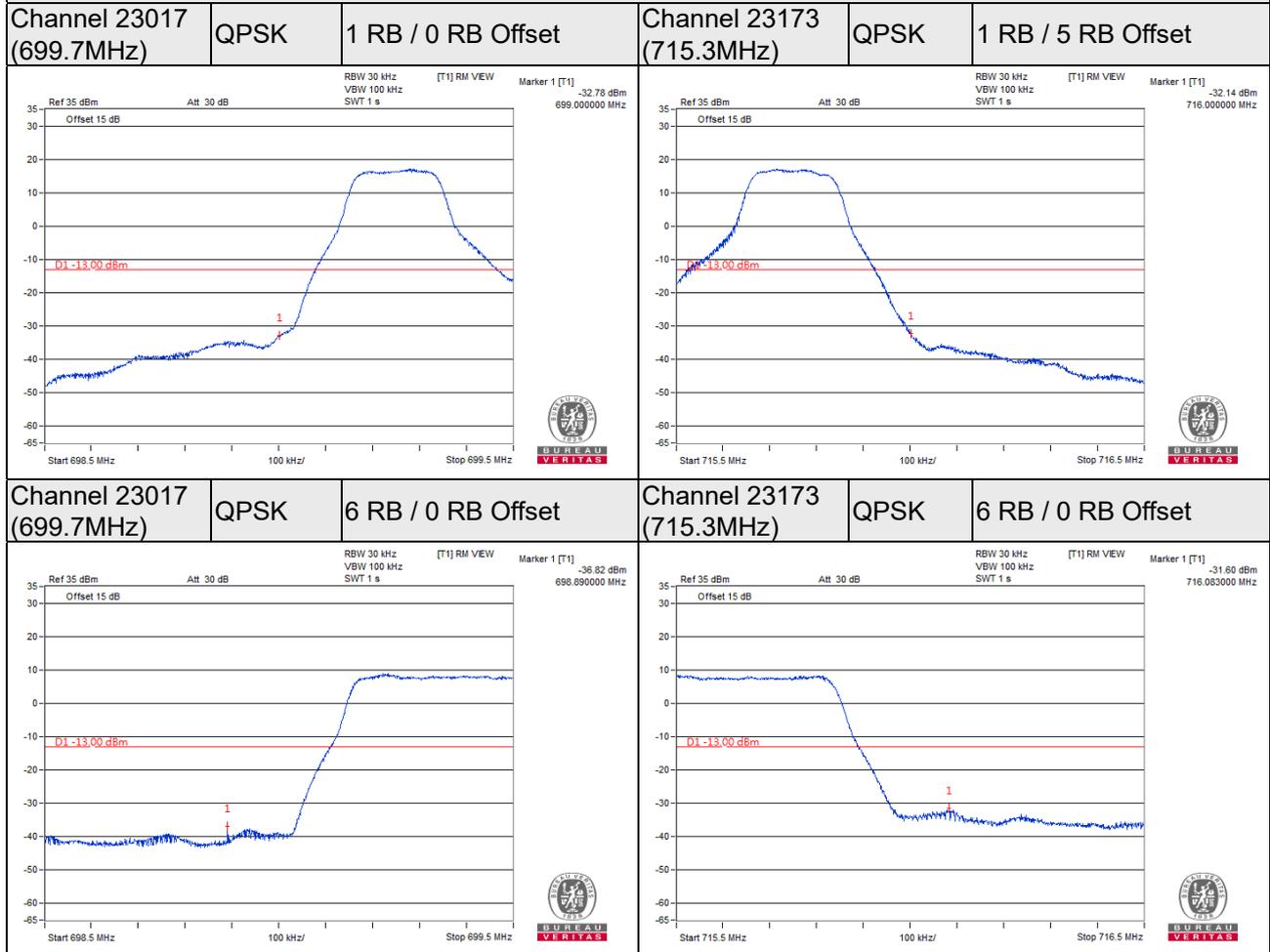
QPSK

100 RB / 0 RB Offset



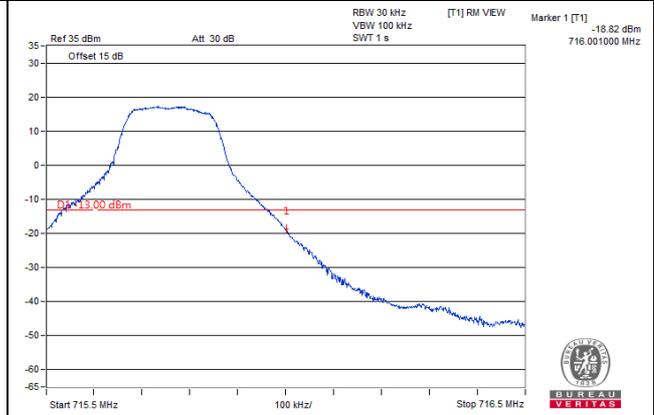
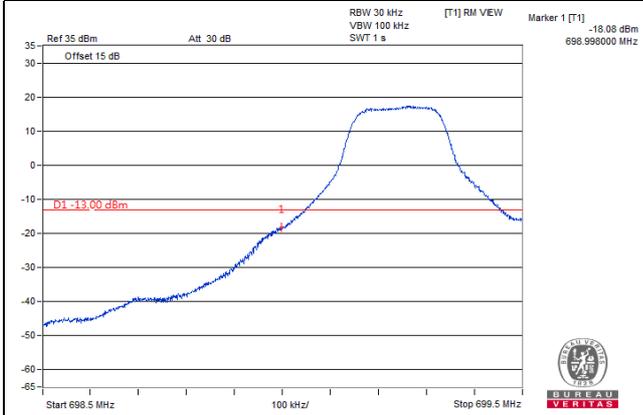
### Band Edge

LTE Band 12, Channel Bandwidth 1.4MHz

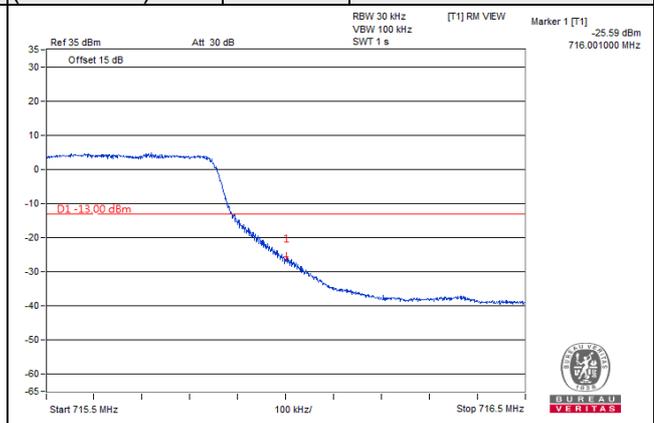
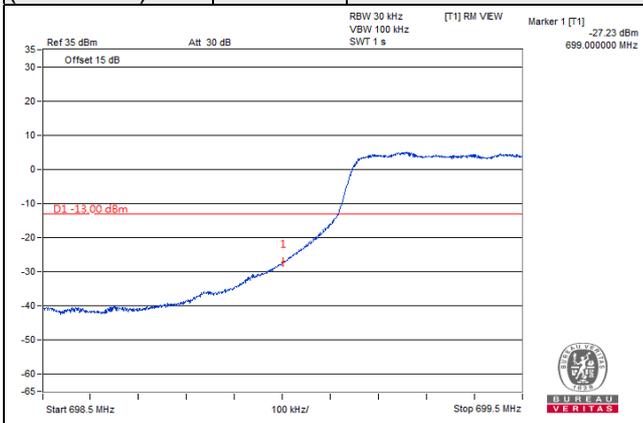


LTE Band 12, Channel Bandwidth 3MHz

Channel 23025 (700.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 23165 (714.5MHz)	QPSK	1 RB / 14RB Offset
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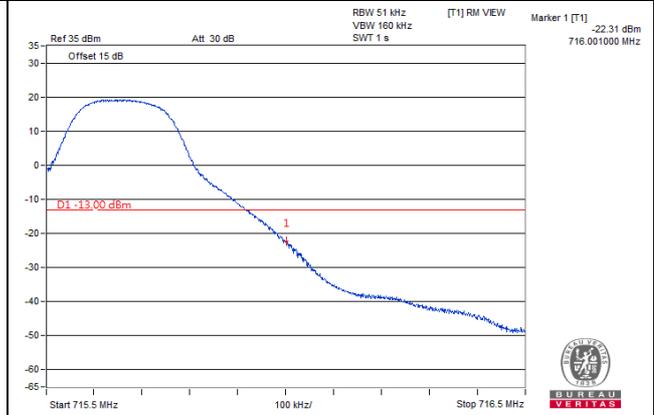
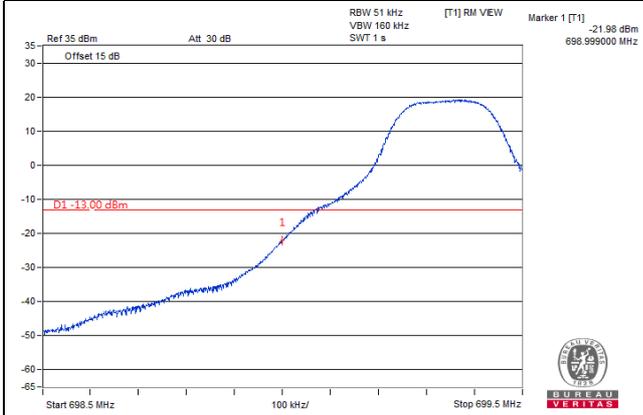


Channel 23025 (700.5MHz)	QPSK	15 RB / 0 RB Offset	Channel 23165 (714.5MHz)	QPSK	15 RB / 0 RB Offset
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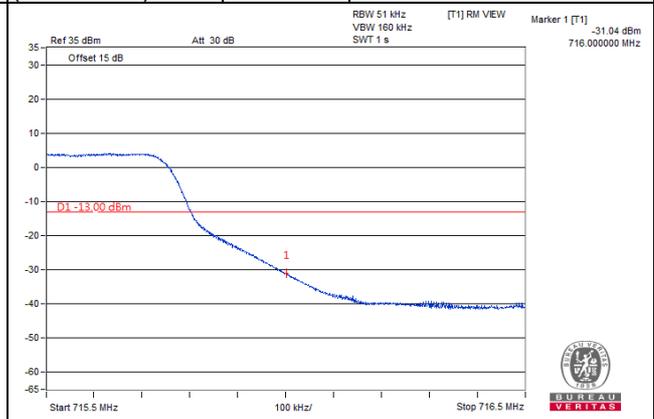
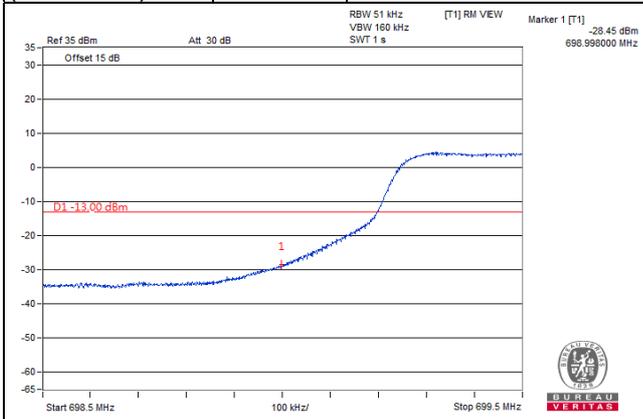


LTE Band 12, Channel Bandwidth 5MHz

Channel 23035 (701.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 23155 (713.5MHz)	QPSK	1 RB / 24RB Offset
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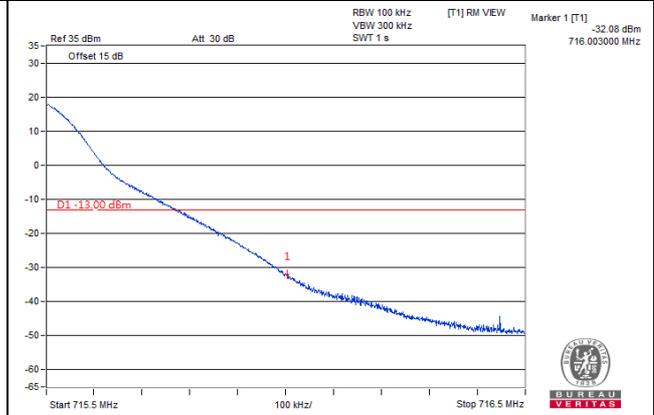
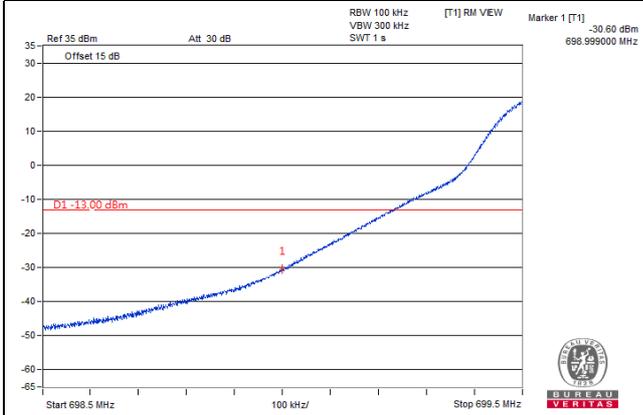


Channel 23035 (701.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 23155 (713.5MHz)	QPSK	25 RB / 0 RB Offset
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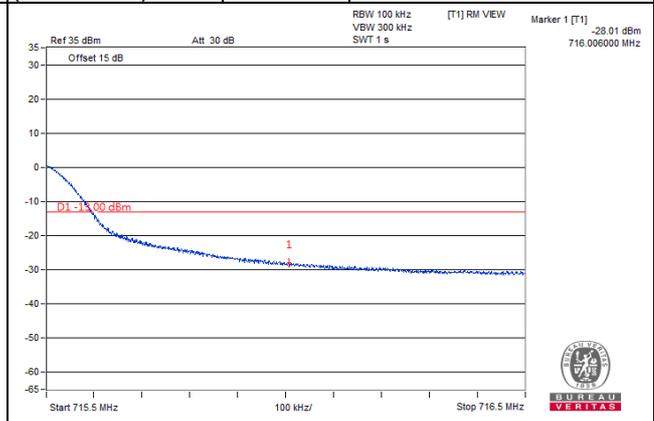
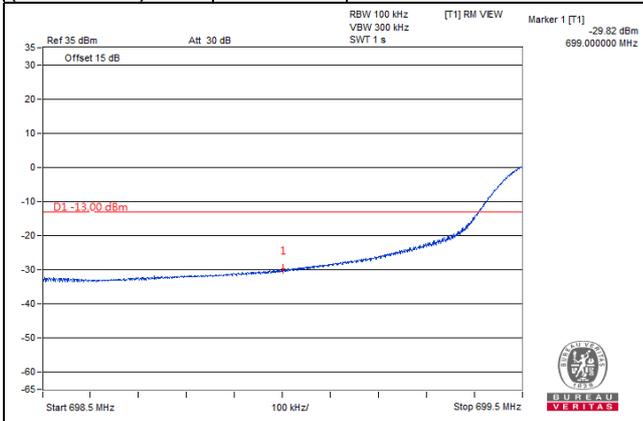


LTE Band 12, Channel Bandwidth 10MHz

Channel 23060 (704.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 23130 (711.0MHz)	QPSK	1 RB / 24RB Offset
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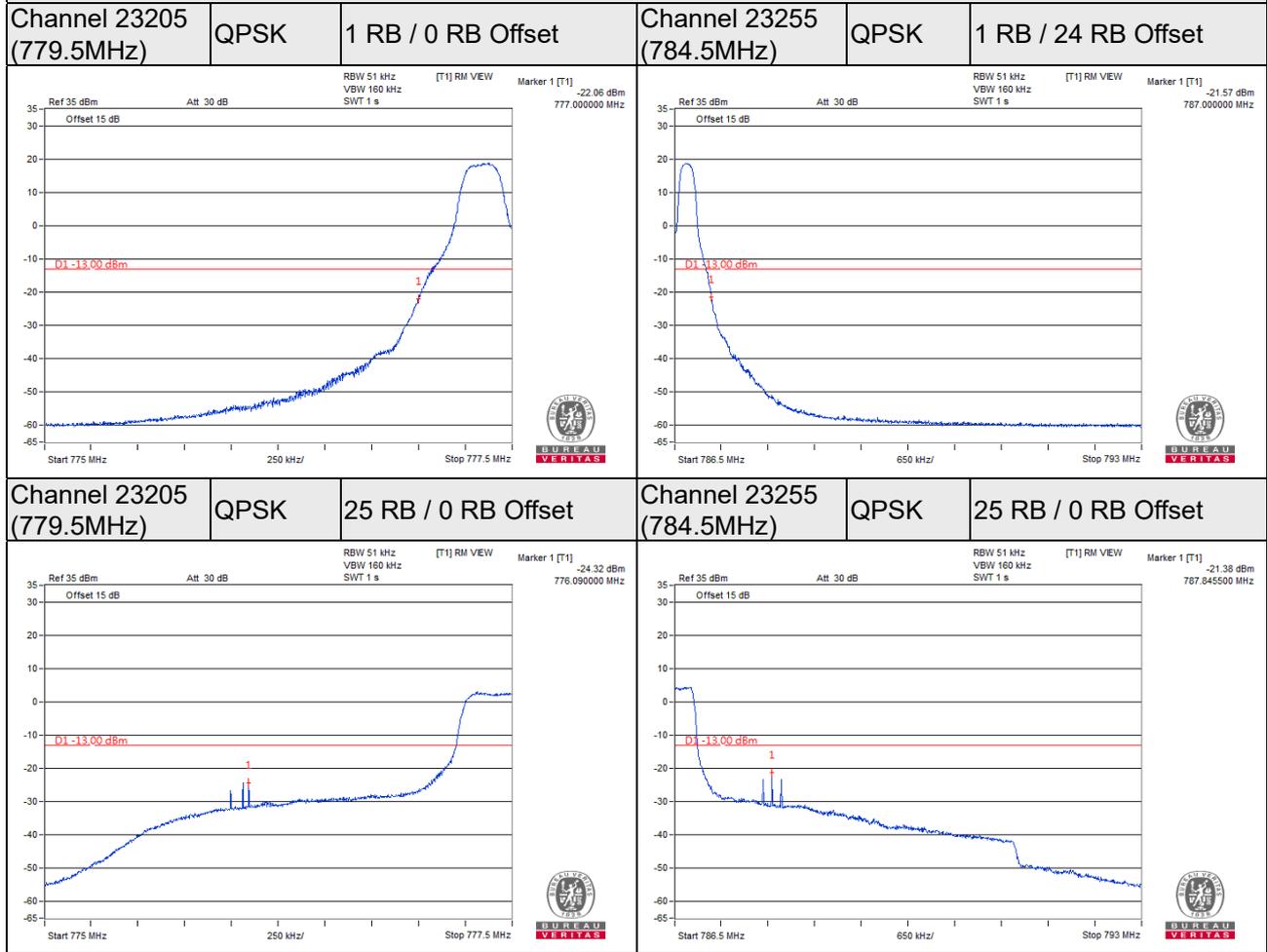


Channel 23060 (704.0MHz)	QPSK	50 RB / 0 RB Offset	Channel 23130 (711.0MHz)	QPSK	25 RB / 0 RB Offset
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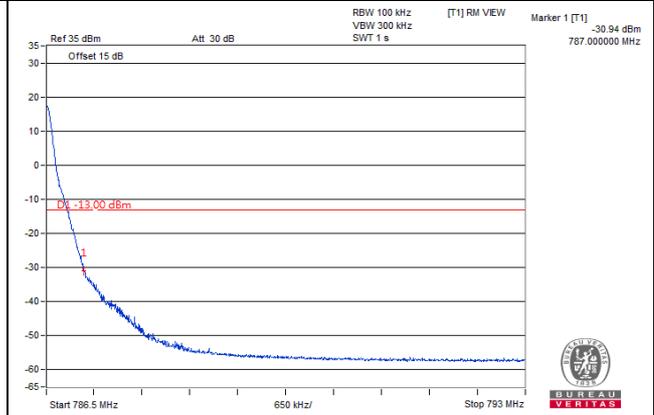
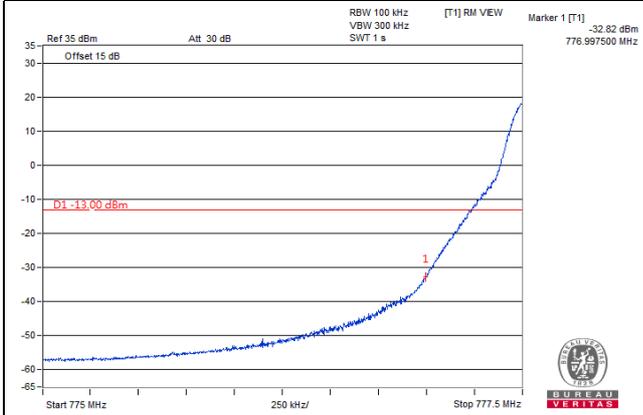
### Band Edge

LTE Band 13, Channel Bandwidth 5MHz

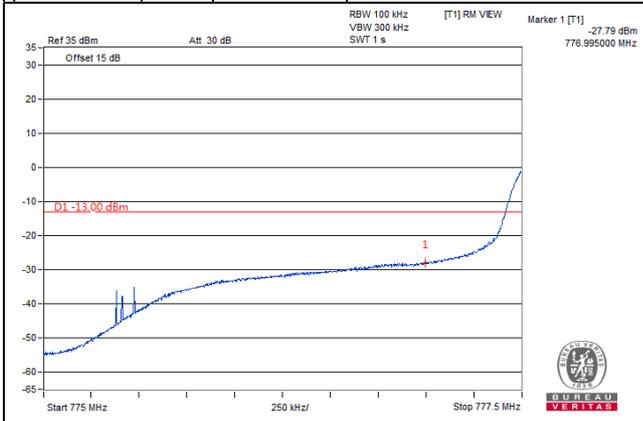


LTE Band 13, Channel Bandwidth 10MHz

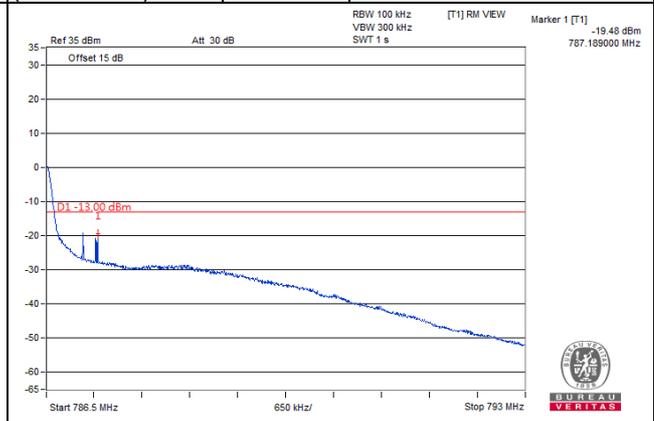
Channel 23230 (782.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 23230 (782.0MHz)	QPSK	1 RB / 49 RB Offset
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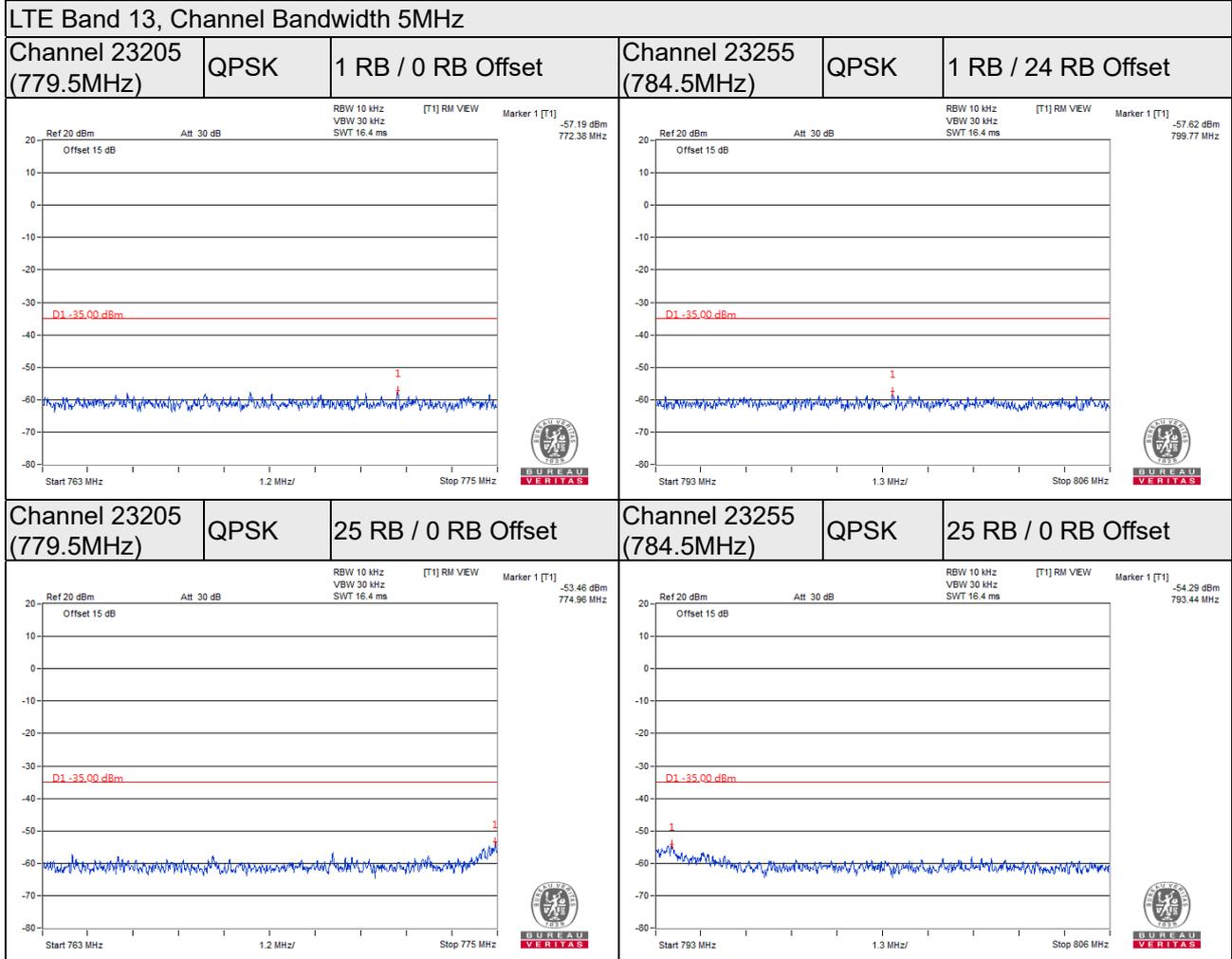
Channel 23230 (782.0MHz)	QPSK	50 RB / 0 RB Offset
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Channel 23230 (782.0MHz)	QPSK	50 RB / 0 RB Offset
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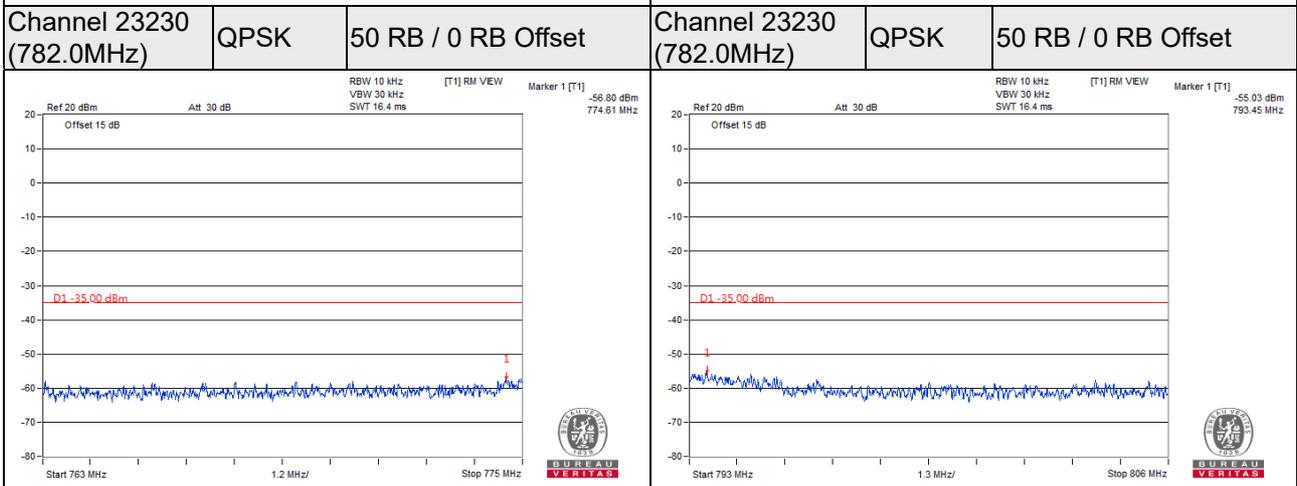
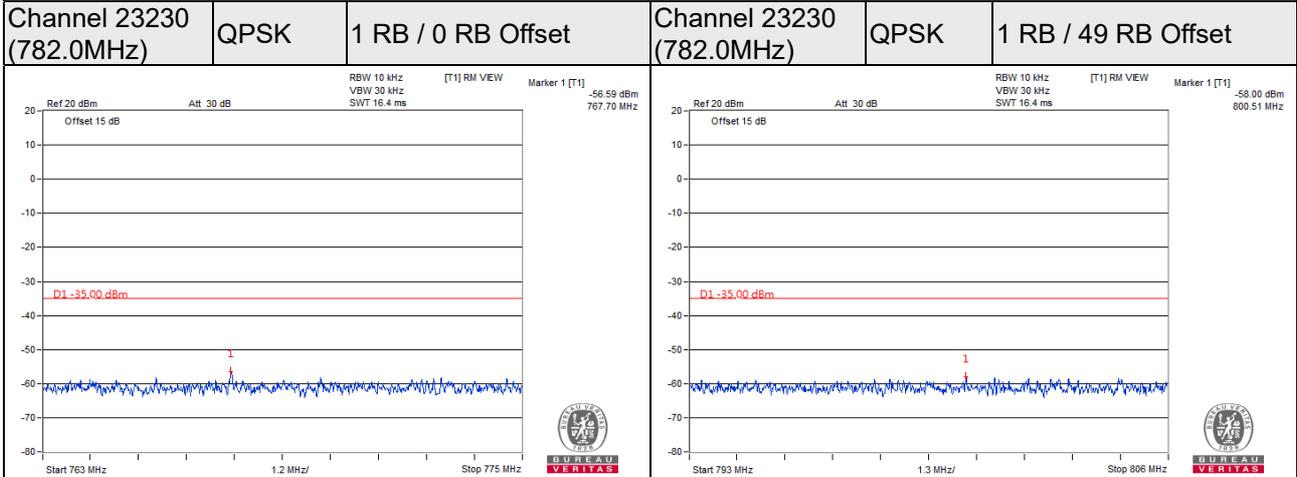


### Emission Mask



For the 763-775MHz and 793-806MHz band, the FCC limit is  $65+10\log(P[\text{watt}])$  in a 6.25 kHz bandwidth. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance, and the correction factor is compensated at the spectrum. By using a 10 kHz bandwidth on the spectrum analyzer.

LTE Band 13, Channel Bandwidth 10MHz

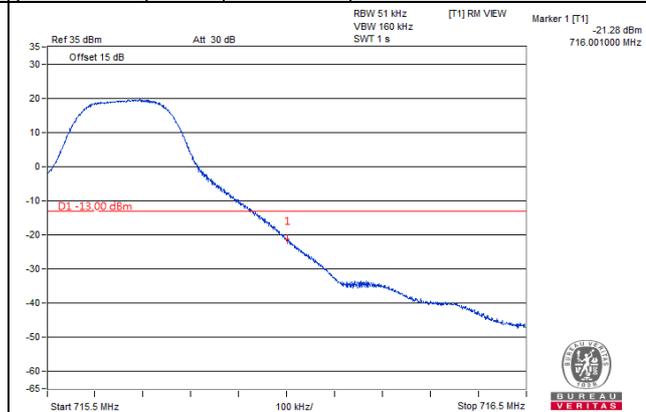
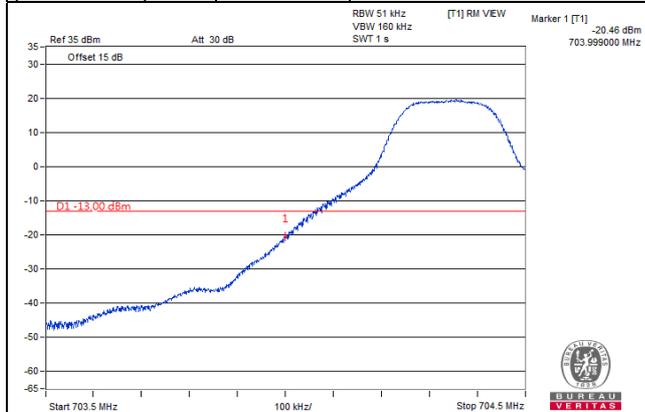


For the 763-775MHz and 793-806MHz band, the FCC limit is  $65+10\log(P[\text{watt}])$  in a 6.25 kHz bandwidth. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance, and the correction factor is compensated at the spectrum. By using a 10 kHz bandwidth on the spectrum analyzer.

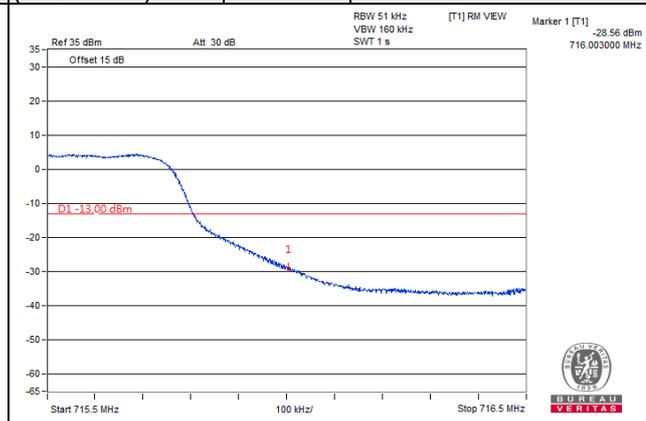
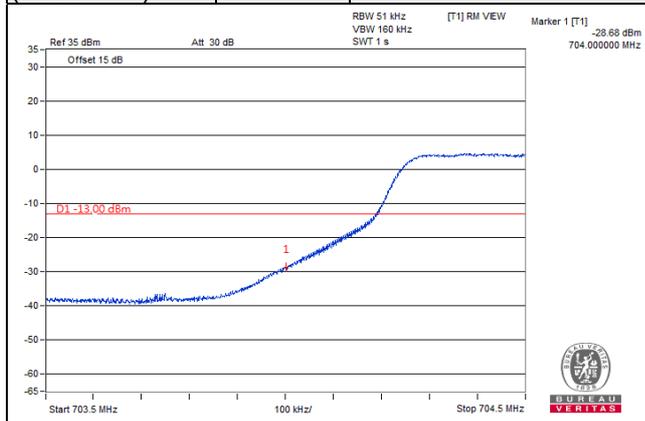
### Band Edge

#### LTE Band 17, Channel Bandwidth 5MHz

Channel 23755 (706.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 23825 (713.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 23755 (706.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 23825 (713.5MHz)	QPSK	25 RB / 0 RB Offset
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LTE Band 17, Channel Bandwidth 10MHz

Channel 23780  
(709.0MHz)

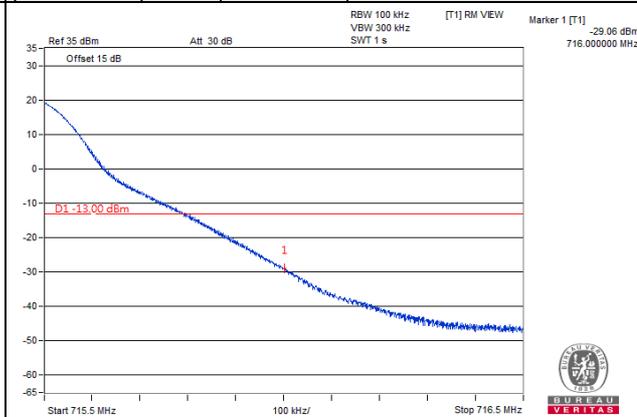
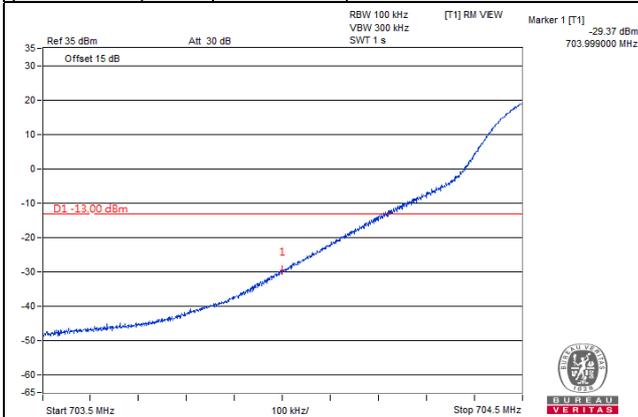
QPSK

1 RB / 0 RB Offset

Channel 23800  
(711.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 23780  
(709.0MHz)

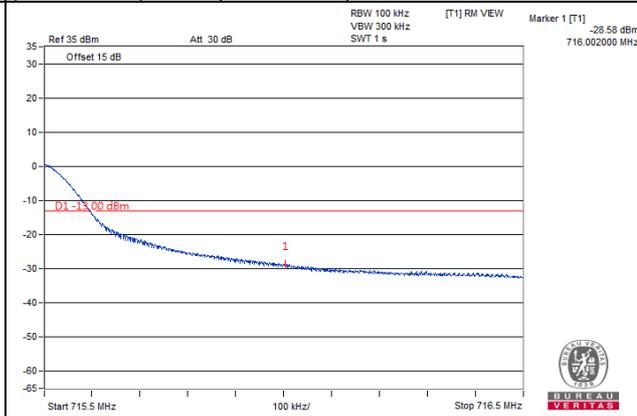
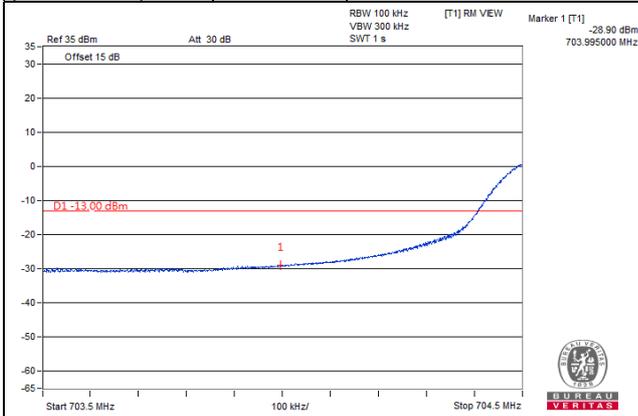
QPSK

50 RB / 0 RB Offset

Channel 23800  
(711.0MHz)

QPSK

50 RB / 0 RB Offset



### Emission Mask

LTE Band 30, Channel Bandwidth 5MHz

<p><b>Channel 27685 (2307.5MHz)</b></p> <p>QPSK      1 RB / 0 RB Offset</p> <table border="1" style="width:100%; font-size: 8px;"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power dBm</th> <th>Mask</th> </tr> </thead> <tbody> <tr><td>2.200 GHz</td><td>2.288 GHz</td><td>1,000 MHz</td><td><b>2.23120 GHz</b></td><td><b>-50.15 dBm</b></td><td><b>-10.15 dB</b></td></tr> <tr><td>2.288 GHz</td><td>2.292 GHz</td><td>1,000 MHz</td><td><b>2.29091 GHz</b></td><td><b>-51.74 dBm</b></td><td><b>-14.74 dB</b></td></tr> <tr><td>2.292 GHz</td><td>2.296 GHz</td><td>1,000 MHz</td><td><b>2.29594 GHz</b></td><td><b>-50.99 dBm</b></td><td><b>-19.99 dB</b></td></tr> <tr><td>2.296 GHz</td><td>2.300 GHz</td><td>1,000 MHz</td><td><b>2.29669 GHz</b></td><td><b>-49.42 dBm</b></td><td><b>-24.42 dB</b></td></tr> <tr><td>2.300 GHz</td><td>2.304 GHz</td><td>1,000 MHz</td><td><b>2.30395 GHz</b></td><td><b>-41.08 dBm</b></td><td><b>-28.08 dB</b></td></tr> <tr><td>2.304 GHz</td><td>2.305 GHz</td><td>100,000 kHz</td><td><b>2.30500 GHz</b></td><td><b>-25.08 dBm</b></td><td><b>-12.08 dB</b></td></tr> <tr><td>2.305 GHz</td><td>2.320 GHz</td><td>1,000 MHz</td><td><b>2.30522 GHz</b></td><td><b>-3.24 dBm</b></td><td><b>-3.24 dB</b></td></tr> <tr><td>2.320 GHz</td><td>2.321 GHz</td><td>100,000 kHz</td><td><b>2.32058 GHz</b></td><td><b>-62.05 dBm</b></td><td><b>-37.05 dB</b></td></tr> <tr><td>2.321 GHz</td><td>2.324 GHz</td><td>1,000 MHz</td><td><b>2.32161 GHz</b></td><td><b>-51.38 dBm</b></td><td><b>-26.38 dB</b></td></tr> <tr><td>2.324 GHz</td><td>2.328 GHz</td><td>1,000 MHz</td><td><b>2.32410 GHz</b></td><td><b>-51.70 dBm</b></td><td><b>-20.70 dB</b></td></tr> <tr><td>2.328 GHz</td><td>2.337 GHz</td><td>1,000 MHz</td><td><b>2.33696 GHz</b></td><td><b>-51.62 dBm</b></td><td><b>-14.62 dB</b></td></tr> <tr><td>2.337 GHz</td><td>2.341 GHz</td><td>1,000 MHz</td><td><b>2.33987 GHz</b></td><td><b>-51.76 dBm</b></td><td><b>-20.76 dB</b></td></tr> <tr><td>2.341 GHz</td><td>2.345 GHz</td><td>1,000 MHz</td><td><b>2.34328 GHz</b></td><td><b>-51.65 dBm</b></td><td><b>-26.65 dB</b></td></tr> <tr><td>2.345 GHz</td><td>2.360 GHz</td><td>1,000 MHz</td><td><b>2.35577 GHz</b></td><td><b>-51.41 dBm</b></td><td><b>-28.41 dB</b></td></tr> <tr><td>2.360 GHz</td><td>2.395 GHz</td><td>1,000 MHz</td><td><b>2.39309 GHz</b></td><td><b>-51.57 dBm</b></td><td><b>-11.57 dB</b></td></tr> </tbody> </table> <p>06:37:25 08.02.2021</p>	Range Low	Range Up	RBW	Frequency	Power dBm	Mask	2.200 GHz	2.288 GHz	1,000 MHz	<b>2.23120 GHz</b>	<b>-50.15 dBm</b>	<b>-10.15 dB</b>	2.288 GHz	2.292 GHz	1,000 MHz	<b>2.29091 GHz</b>	<b>-51.74 dBm</b>	<b>-14.74 dB</b>	2.292 GHz	2.296 GHz	1,000 MHz	<b>2.29594 GHz</b>	<b>-50.99 dBm</b>	<b>-19.99 dB</b>	2.296 GHz	2.300 GHz	1,000 MHz	<b>2.29669 GHz</b>	<b>-49.42 dBm</b>	<b>-24.42 dB</b>	2.300 GHz	2.304 GHz	1,000 MHz	<b>2.30395 GHz</b>	<b>-41.08 dBm</b>	<b>-28.08 dB</b>	2.304 GHz	2.305 GHz	100,000 kHz	<b>2.30500 GHz</b>	<b>-25.08 dBm</b>	<b>-12.08 dB</b>	2.305 GHz	2.320 GHz	1,000 MHz	<b>2.30522 GHz</b>	<b>-3.24 dBm</b>	<b>-3.24 dB</b>	2.320 GHz	2.321 GHz	100,000 kHz	<b>2.32058 GHz</b>	<b>-62.05 dBm</b>	<b>-37.05 dB</b>	2.321 GHz	2.324 GHz	1,000 MHz	<b>2.32161 GHz</b>	<b>-51.38 dBm</b>	<b>-26.38 dB</b>	2.324 GHz	2.328 GHz	1,000 MHz	<b>2.32410 GHz</b>	<b>-51.70 dBm</b>	<b>-20.70 dB</b>	2.328 GHz	2.337 GHz	1,000 MHz	<b>2.33696 GHz</b>	<b>-51.62 dBm</b>	<b>-14.62 dB</b>	2.337 GHz	2.341 GHz	1,000 MHz	<b>2.33987 GHz</b>	<b>-51.76 dBm</b>	<b>-20.76 dB</b>	2.341 GHz	2.345 GHz	1,000 MHz	<b>2.34328 GHz</b>	<b>-51.65 dBm</b>	<b>-26.65 dB</b>	2.345 GHz	2.360 GHz	1,000 MHz	<b>2.35577 GHz</b>	<b>-51.41 dBm</b>	<b>-28.41 dB</b>	2.360 GHz	2.395 GHz	1,000 MHz	<b>2.39309 GHz</b>	<b>-51.57 dBm</b>	<b>-11.57 dB</b>	<p><b>Channel 27685 (2307.5MHz)</b></p> <p>QPSK      25 RB / 0 RB Offset</p> <table border="1" style="width:100%; 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<p><b>Channel 27735 (2312.5MHz)</b></p> <p>QPSK      1 RB / 24 RB Offset</p> <table border="1" style="width:100%; font-size: 8px;"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power dBm</th> <th>Mask</th> </tr> </thead> <tbody> <tr><td>2.200 GHz</td><td>2.288 GHz</td><td>1,000 MHz</td><td><b>2.24061 GHz</b></td><td><b>-50.58 dBm</b></td><td><b>-10.58 dB</b></td></tr> <tr><td>2.288 GHz</td><td>2.292 GHz</td><td>1,000 MHz</td><td><b>2.29150 GHz</b></td><td><b>-51.98 dBm</b></td><td><b>-14.98 dB</b></td></tr> <tr><td>2.292 GHz</td><td>2.296 GHz</td><td>1,000 MHz</td><td><b>2.29594 GHz</b></td><td><b>-51.92 dBm</b></td><td><b>-20.92 dB</b></td></tr> <tr><td>2.296 GHz</td><td>2.300 GHz</td><td>1,000 MHz</td><td><b>2.29867 GHz</b></td><td><b>-51.76 dBm</b></td><td><b>-26.76 dB</b></td></tr> <tr><td>2.300 GHz</td><td>2.304 GHz</td><td>1,000 MHz</td><td><b>2.30382 GHz</b></td><td><b>-50.69 dBm</b></td><td><b>-37.69 dB</b></td></tr> <tr><td>2.304 GHz</td><td>2.305 GHz</td><td>100,000 kHz</td><td><b>2.30401 GHz</b></td><td><b>-58.99 dBm</b></td><td><b>-45.99 dB</b></td></tr> <tr><td>2.305 GHz</td><td>2.320 GHz</td><td>1,000 MHz</td><td><b>2.31458 GHz</b></td><td><b>21.94 dBm</b></td><td><b>3.06 dB</b></td></tr> <tr><td>2.320 GHz</td><td>2.321 GHz</td><td>100,000 kHz</td><td><b>2.32094 GHz</b></td><td><b>-59.35 dBm</b></td><td><b>-34.35 dB</b></td></tr> <tr><td>2.321 GHz</td><td>2.324 GHz</td><td>1,000 MHz</td><td><b>2.32342 GHz</b></td><td><b>-46.30 dBm</b></td><td><b>-21.30 dB</b></td></tr> <tr><td>2.324 GHz</td><td>2.328 GHz</td><td>1,000 MHz</td><td><b>2.32402 GHz</b></td><td><b>-49.66 dBm</b></td><td><b>-18.66 dB</b></td></tr> <tr><td>2.328 GHz</td><td>2.337 GHz</td><td>1,000 MHz</td><td><b>2.33009 GHz</b></td><td><b>-51.36 dBm</b></td><td><b>-14.36 dB</b></td></tr> <tr><td>2.337 GHz</td><td>2.341 GHz</td><td>1,000 MHz</td><td><b>2.34094 GHz</b></td><td><b>-51.65 dBm</b></td><td><b>-20.65 dB</b></td></tr> <tr><td>2.341 GHz</td><td>2.345 GHz</td><td>1,000 MHz</td><td><b>2.34403 GHz</b></td><td><b>-51.74 dBm</b></td><td><b>-26.74 dB</b></td></tr> <tr><td>2.345 GHz</td><td>2.360 GHz</td><td>1,000 MHz</td><td><b>2.35710 GHz</b></td><td><b>-51.24 dBm</b></td><td><b>-38.24 dB</b></td></tr> <tr><td>2.360 GHz</td><td>2.395 GHz</td><td>1,000 MHz</td><td><b>2.38651 GHz</b></td><td><b>-51.53 dBm</b></td><td><b>-11.53 dB</b></td></tr> </tbody> </table> <p>06:42:52 08.02.2021</p>	Range Low	Range Up	RBW	Frequency	Power dBm	Mask	2.200 GHz	2.288 GHz	1,000 MHz	<b>2.24061 GHz</b>	<b>-50.58 dBm</b>	<b>-10.58 dB</b>	2.288 GHz	2.292 GHz	1,000 MHz	<b>2.29150 GHz</b>	<b>-51.98 dBm</b>	<b>-14.98 dB</b>	2.292 GHz	2.296 GHz	1,000 MHz	<b>2.29594 GHz</b>	<b>-51.92 dBm</b>	<b>-20.92 dB</b>	2.296 GHz	2.300 GHz	1,000 MHz	<b>2.29867 GHz</b>	<b>-51.76 dBm</b>	<b>-26.76 dB</b>	2.300 GHz	2.304 GHz	1,000 MHz	<b>2.30382 GHz</b>	<b>-50.69 dBm</b>	<b>-37.69 dB</b>	2.304 GHz	2.305 GHz	100,000 kHz	<b>2.30401 GHz</b>	<b>-58.99 dBm</b>	<b>-45.99 dB</b>	2.305 GHz	2.320 GHz	1,000 MHz	<b>2.31458 GHz</b>	<b>21.94 dBm</b>	<b>3.06 dB</b>	2.320 GHz	2.321 GHz	100,000 kHz	<b>2.32094 GHz</b>	<b>-59.35 dBm</b>	<b>-34.35 dB</b>	2.321 GHz	2.324 GHz	1,000 MHz	<b>2.32342 GHz</b>	<b>-46.30 dBm</b>	<b>-21.30 dB</b>	2.324 GHz	2.328 GHz	1,000 MHz	<b>2.32402 GHz</b>	<b>-49.66 dBm</b>	<b>-18.66 dB</b>	2.328 GHz	2.337 GHz	1,000 MHz	<b>2.33009 GHz</b>	<b>-51.36 dBm</b>	<b>-14.36 dB</b>	2.337 GHz	2.341 GHz	1,000 MHz	<b>2.34094 GHz</b>	<b>-51.65 dBm</b>	<b>-20.65 dB</b>	2.341 GHz	2.345 GHz	1,000 MHz	<b>2.34403 GHz</b>	<b>-51.74 dBm</b>	<b>-26.74 dB</b>	2.345 GHz	2.360 GHz	1,000 MHz	<b>2.35710 GHz</b>	<b>-51.24 dBm</b>	<b>-38.24 dB</b>	2.360 GHz	2.395 GHz	1,000 MHz	<b>2.38651 GHz</b>	<b>-51.53 dBm</b>	<b>-11.53 dB</b>	<p><b>Channel 27735 (2312.5MHz)</b></p> <p>QPSK      25 RB / 0 RB Offset</p> <table border="1" style="width:100%; 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LTE Band 30, Channel Bandwidth 10MHz

Channel 27710  
(2310.0MHz)

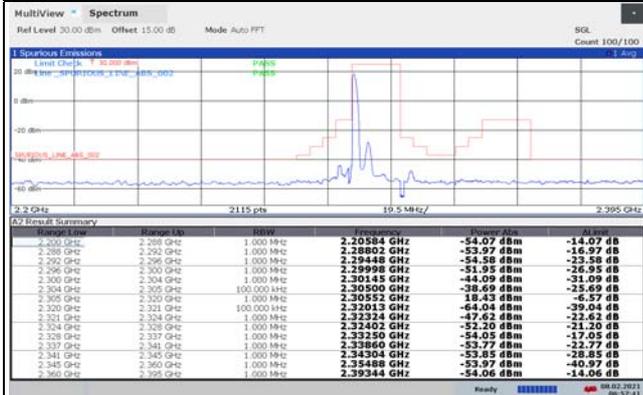
QPSK

1 RB / 0 RB Offset

Channel 27710  
(2310.0MHz)

QPSK

1 RB / 49 RB Offset

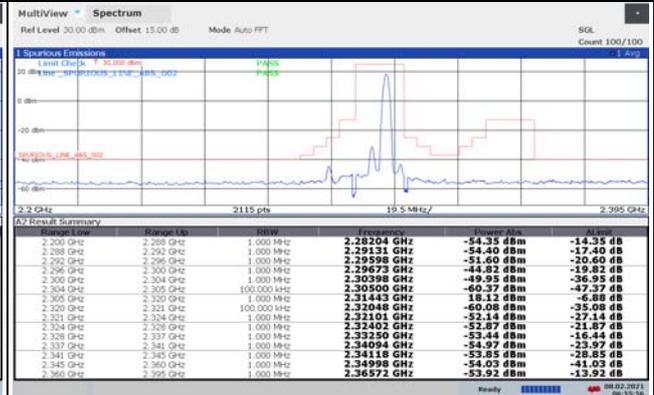


06:57:41 08.02.2021

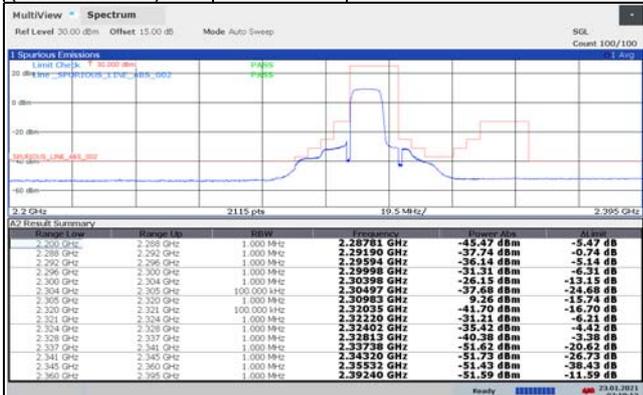
Channel 27710  
(2310.0MHz)

QPSK

50 RB / 0 RB Offset



06:55:57 08.02.2021



07:58:54 23.01.2021

### Out-of-Band Emission

LTE Band 38, Channel Bandwidth 5MHz

Channel 37775 (2572.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 38225 (2617.5MHz)	QPSK	1 RB / 24 RB Offset
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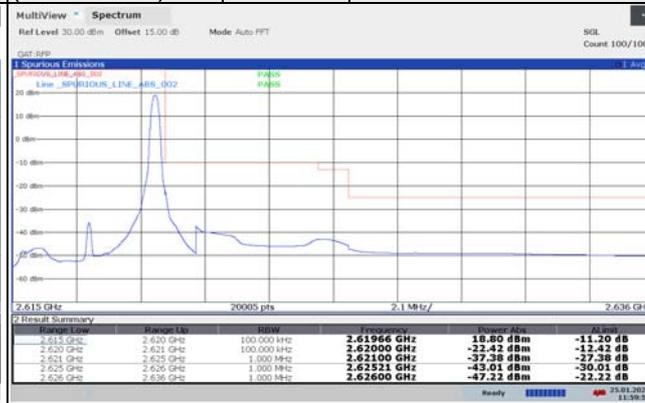


11:38:24 25.01.2021

Channel 37775 (2572.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 38225 (2617.5MHz)	QPSK	25 RB / 0 RB Offset
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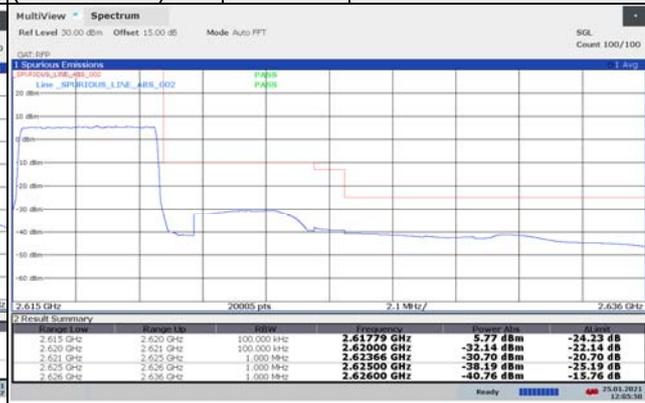


11:49:08 25.01.2021



11:59:59 25.01.2021

Channel 38225 (2617.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 38225 (2617.5MHz)	QPSK	25 RB / 0 RB Offset
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12:05:50 25.01.2021

LTE Band 38, Channel Bandwidth 10MHz

Channel 37800  
(2575.0MHz)

QPSK

1 RB / 0 RB Offset

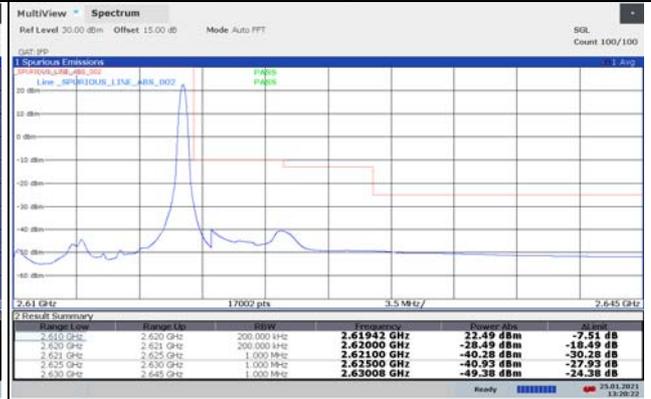
Channel 38200  
(2615.0MHz)

QPSK

1 RB / 49 RB Offset



12:45:56 25.01.2021



13:20:23 25.01.2021

Channel 37800  
(2575.0MHz)

QPSK

50 RB / 0 RB Offset

Channel 38200  
(2615.0MHz)

QPSK

50 RB / 0 RB Offset



12:58:31 25.01.2021



02:19:38 26.01.2021

LTE Band 38, Channel Bandwidth 15MHz

Channel 37825  
(2577.5MHz)

QPSK

1 RB / 0 RB Offset

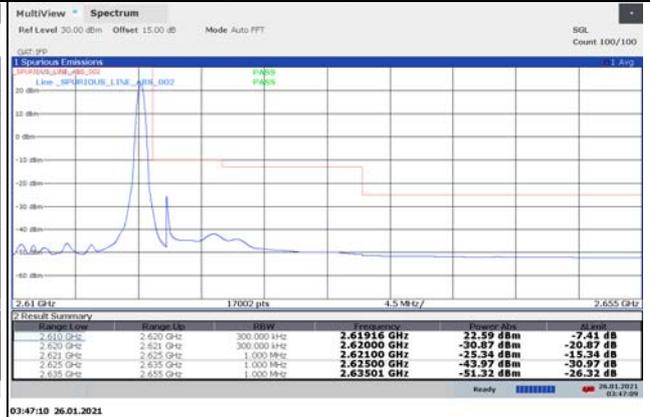
Channel 38175  
(2612.5MHz)

QPSK

1 RB / 74 RB Offset



03:01:33 26.01.2021



03:47:10 26.01.2021

Channel 37825  
(2577.5MHz)

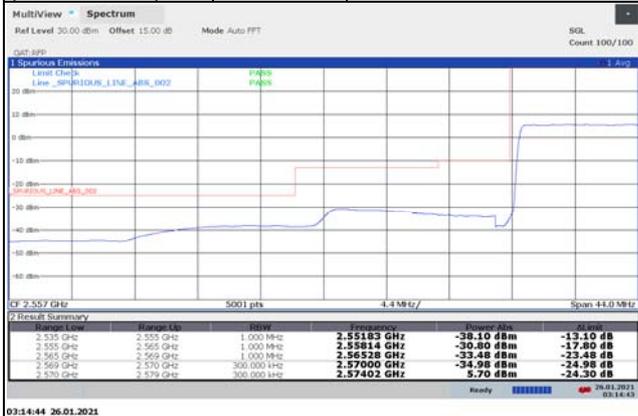
QPSK

75 RB / 0 RB Offset

Channel 38175  
(2612.5MHz)

QPSK

75 RB / 0 RB Offset



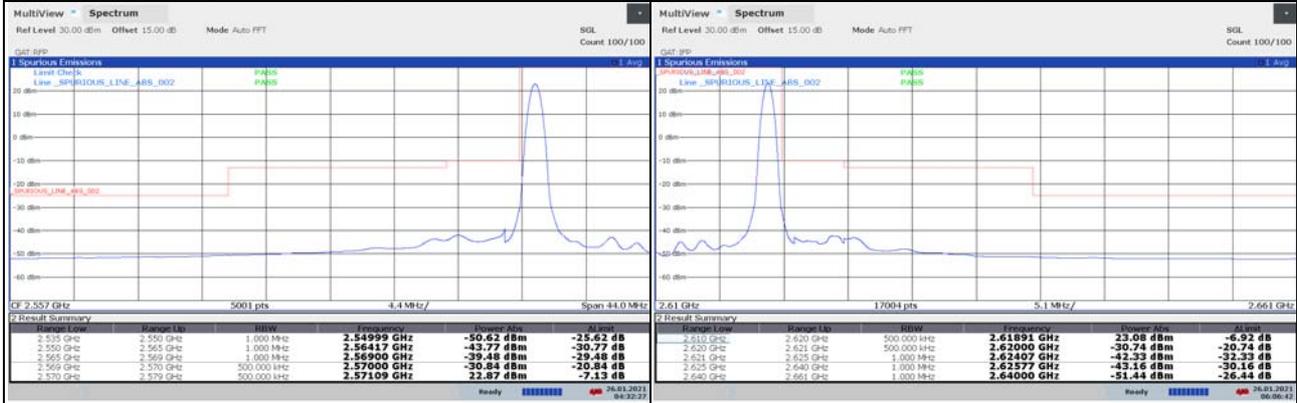
03:14:44 26.01.2021



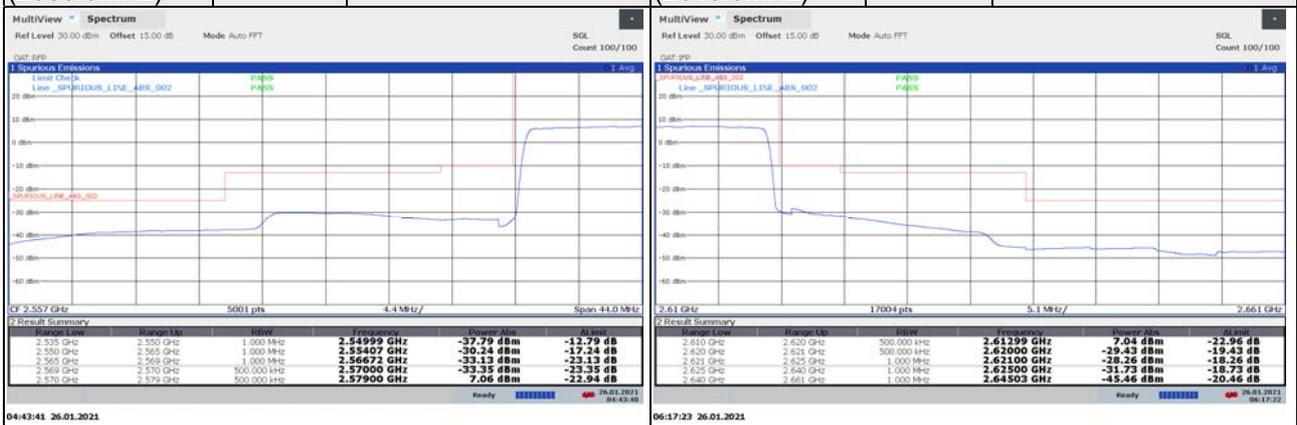
04:06:21 26.01.2021

LTE Band 38, Channel Bandwidth 20MHz

Channel 37850 (2580.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 38150 (2610.0MHz)	QPSK	1 RB / 99 RB Offset
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Channel 37850 (2580.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 38150 (2610.0MHz)	QPSK	100 RB / 0 RB Offset
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### Out-of-Band Emission

LTE Band 41, Channel Bandwidth 5MHz

Channel 39675  
(2498.5MHz)

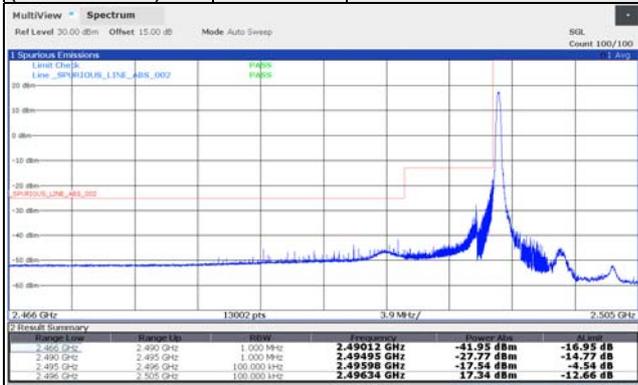
QPSK

1 RB / 0 RB Offset

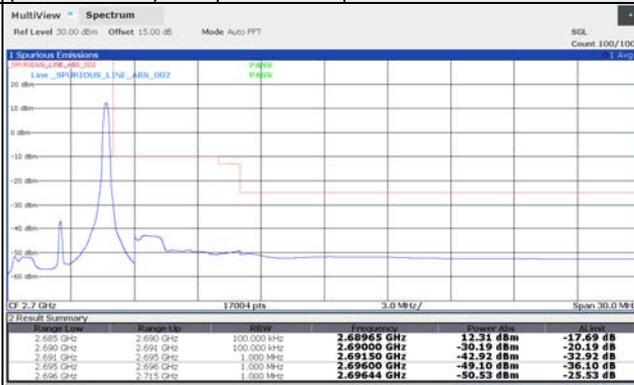
Channel 41565  
(2687.5MHz)

QPSK

1 RB / 24 RB Offset



06:32:16 26.01.2021



08:05:56 26.01.2021

Channel 39675  
(2498.5MHz)

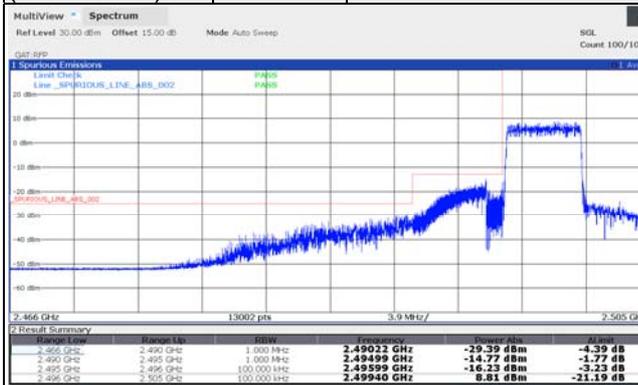
QPSK

25 RB / 0 RB Offset

Channel 41565  
(2687.5MHz)

QPSK

25 RB / 0 RB Offset



06:42:27 26.01.2021



08:46:40 26.01.2021

LTE Band 41, Channel Bandwidth 10MHz

Channel 39700  
(2501.0MHz)

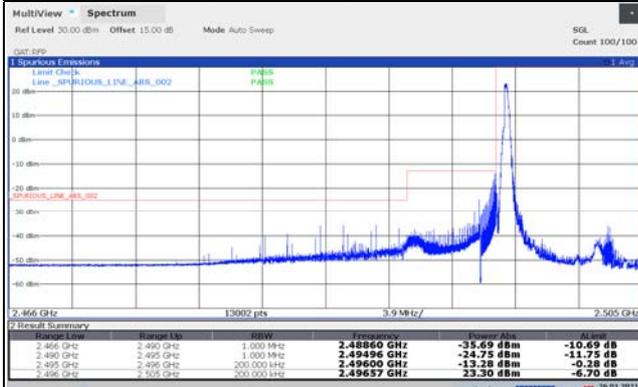
QPSK

1 RB / 0 RB Offset

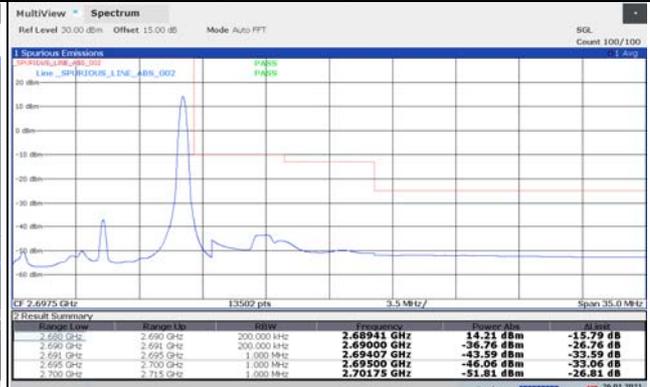
Channel 41540  
(2685.0MHz)

QPSK

1 RB / 49 RB Offset



09:45:07 26.01.2021



10:07:47 26.01.2021

Channel 39700  
(2501.0MHz)

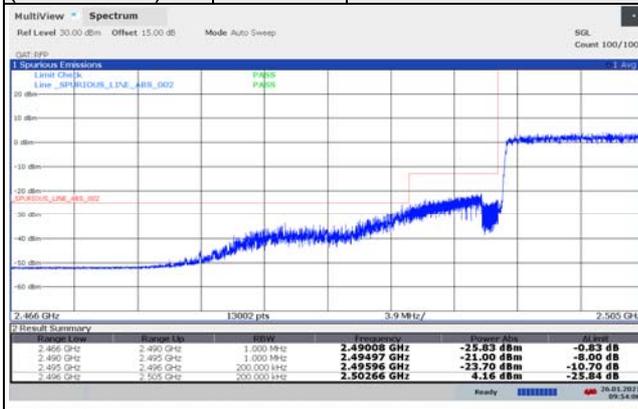
QPSK

50 RB / 0 RB Offset

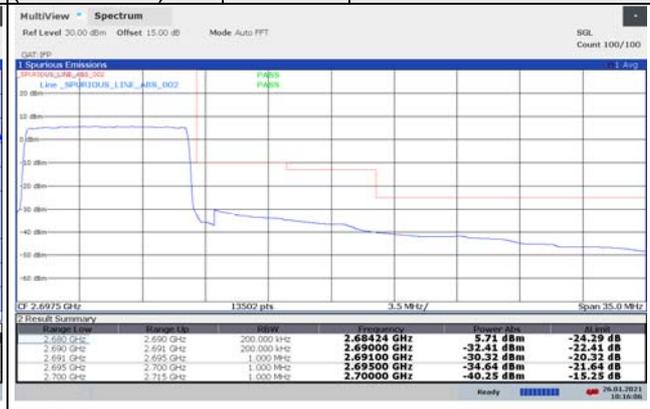
Channel 41540  
(2685.0MHz)

QPSK

50 RB / 0 RB Offset



09:54:07 26.01.2021



10:16:07 26.01.2021

LTE Band 41, Channel Bandwidth 15MHz

Channel 39725  
(2503.5MHz)

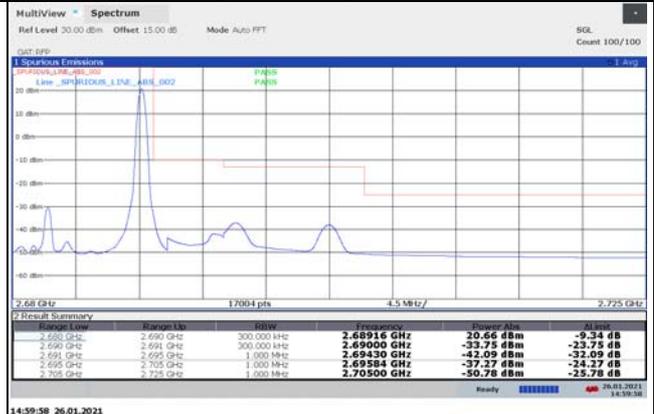
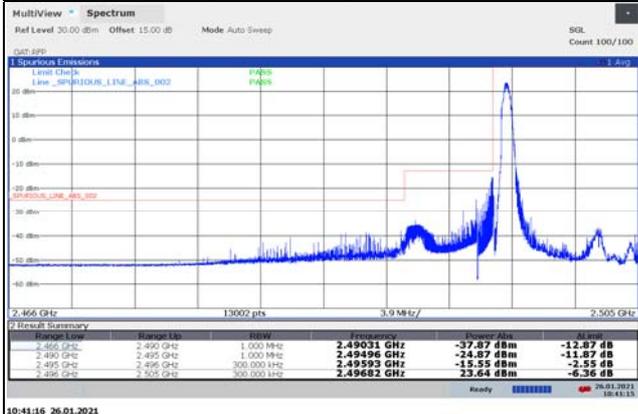
QPSK

1 RB / 0 RB Offset

Channel 41515  
(2682.5MHz)

QPSK

1 RB / 74 RB Offset



Channel 39725  
(2503.5MHz)

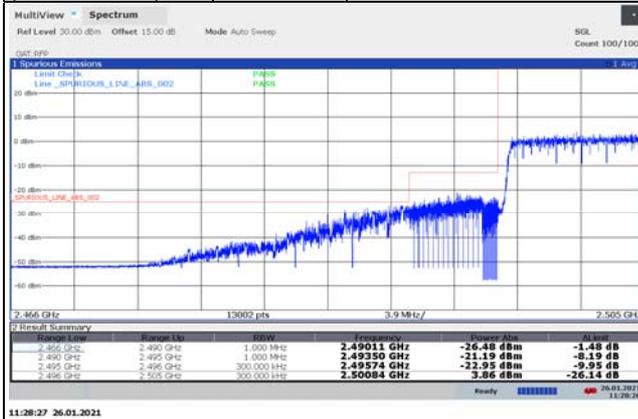
QPSK

75 RB / 0 RB Offset

Channel 41515  
(2682.5MHz)

QPSK

75 RB / 0 RB Offset



LTE Band 41, Channel Bandwidth 20MHz

Channel 39750  
(2506.0MHz)

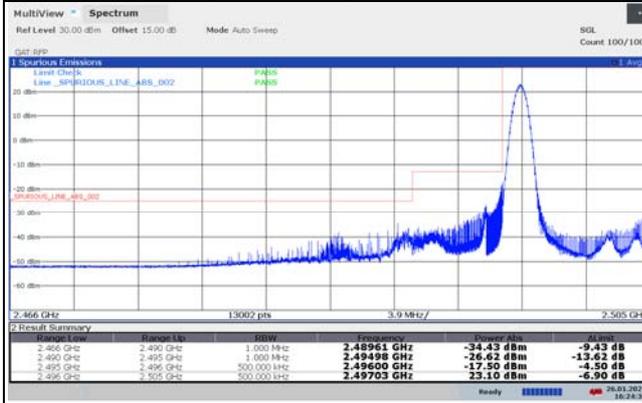
QPSK

1 RB / 0 RB Offset

Channel 41490  
(2680.0MHz)

QPSK

1 RB / 99 RB Offset



16:24:36 26.01.2021



17:22:07 26.01.2021

Channel 39750  
(2506.0MHz)

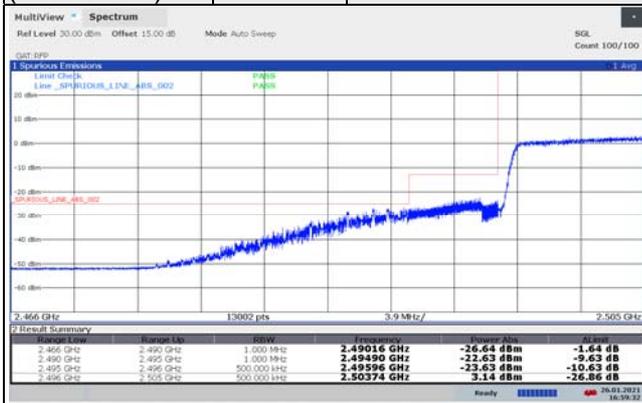
QPSK

100 RB / 0 RB Offset

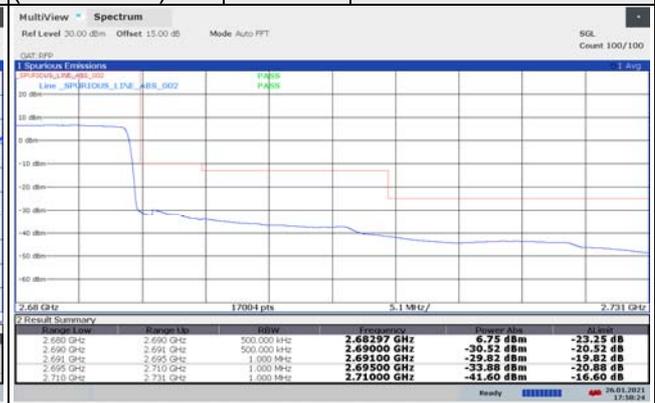
Channel 41490  
(2680.0MHz)

QPSK

100 RB / 0 RB Offset



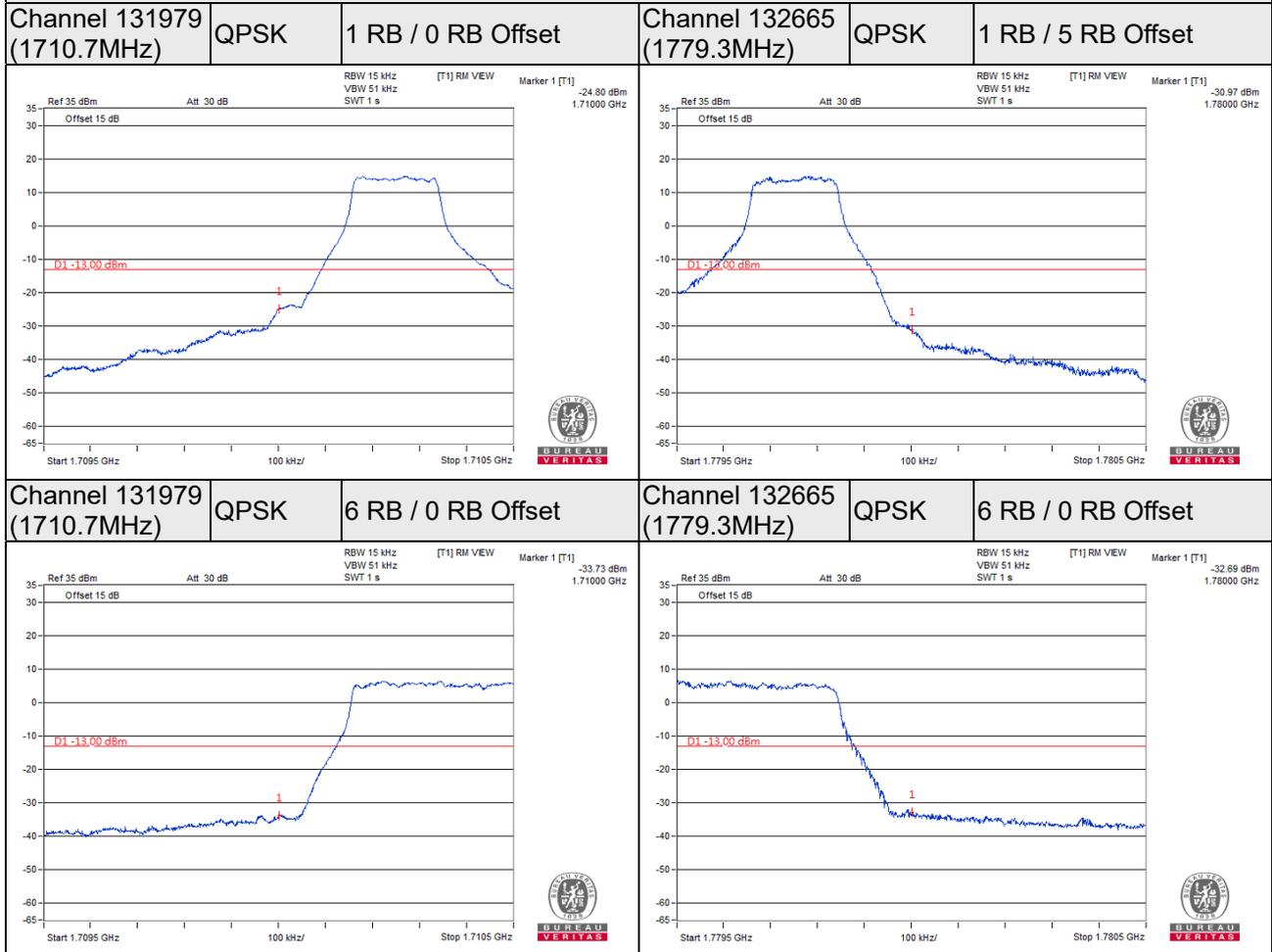
16:59:32 26.01.2021



17:58:24 26.01.2021

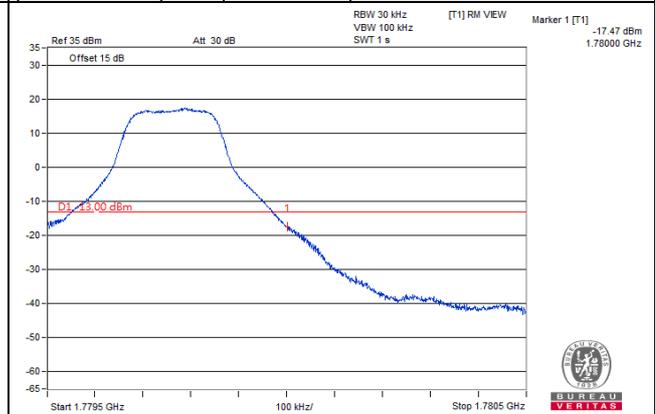
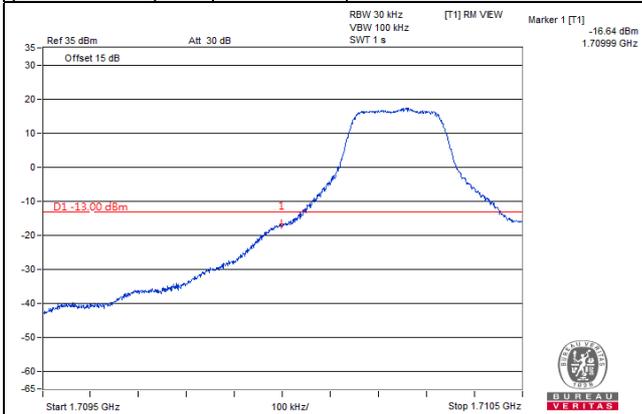
### Band Edge

LTE Band 66, Channel Bandwidth 1.4MHz

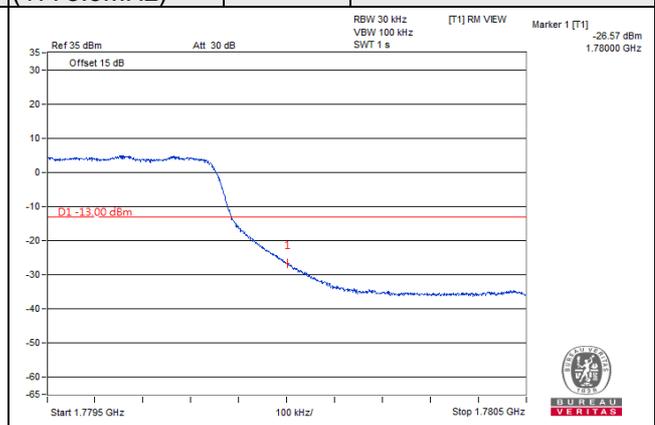
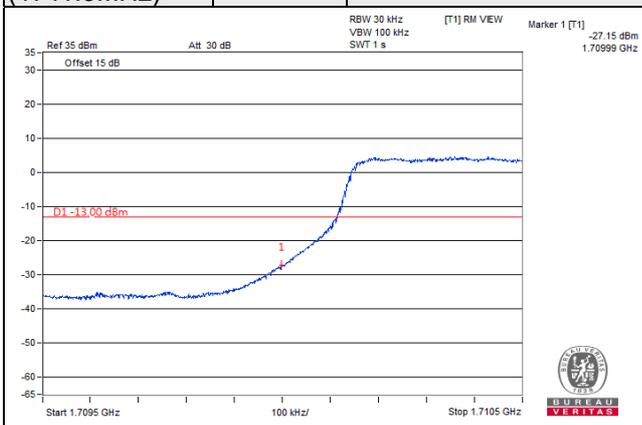


LTE Band 66, Channel Bandwidth 3MHz

Channel 131987 (1711.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 132657 (1778.5MHz)	QPSK	1 RB / 14 RB Offset
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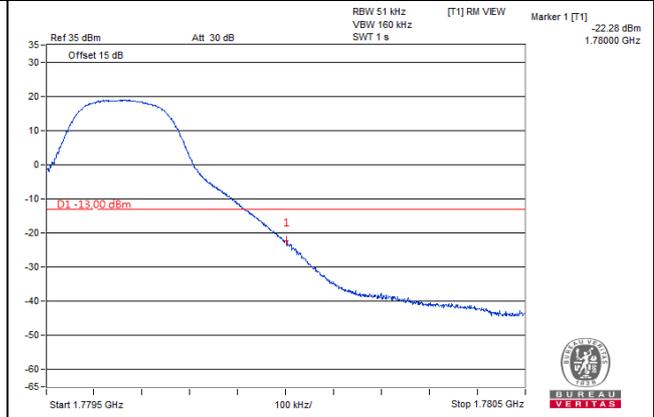
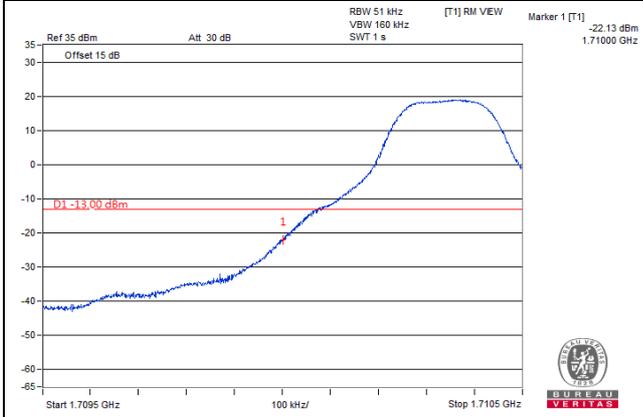


Channel 131987 (1711.5MHz)	QPSK	15 RB / 0 RB Offset	Channel 132657 (1778.5MHz)	QPSK	15 RB / 0 RB Offset
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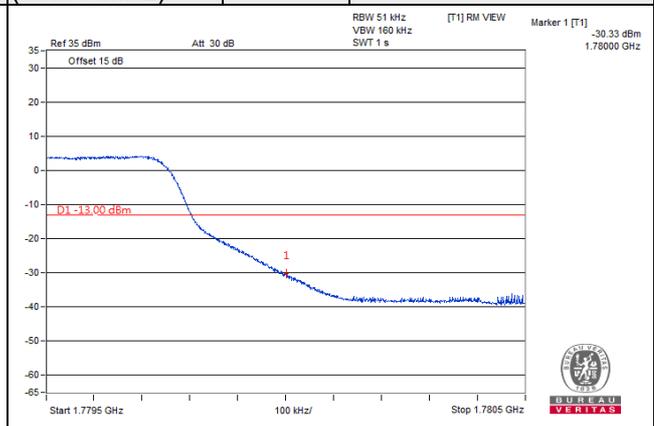
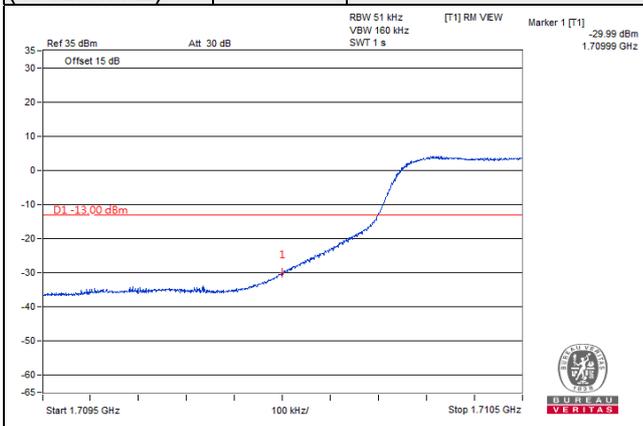


LTE Band 66, Channel Bandwidth 5MHz

Channel 131997 (1712.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 132647 (1777.5MHz)	QPSK	1 RB / 24 RB Offset
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Channel 131997 (1712.5MHz)	QPSK	25 RB / 0 RB Offset	Channel 132647 (1777.5MHz)	QPSK	25 RB / 0 RB Offset
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LTE Band 66, Channel Bandwidth 10MHz

Channel 132022  
(1715.0MHz)

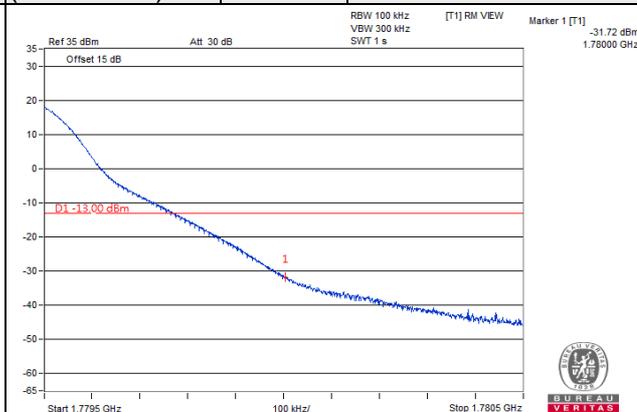
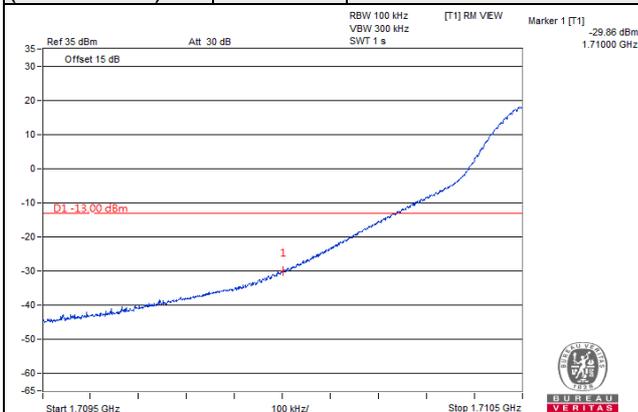
QPSK

1 RB / 0 RB Offset

Channel 132622  
(1775.0MHz)

QPSK

1 RB / 49 RB Offset



Channel 132022  
(1715.0MHz)

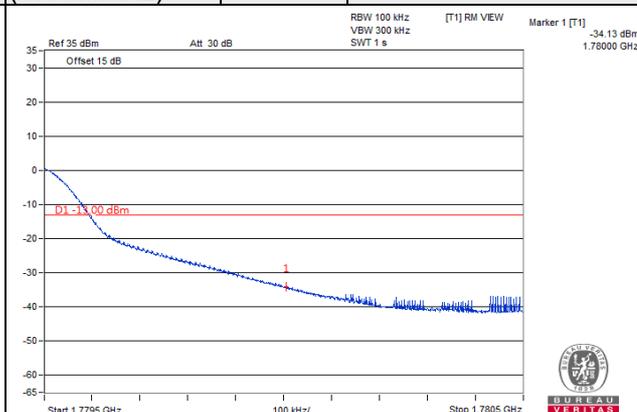
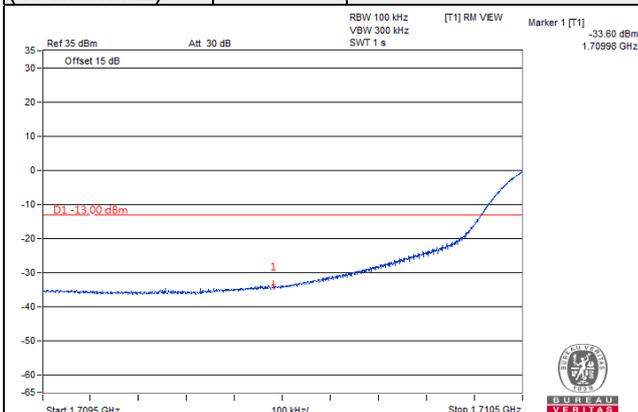
QPSK

50 RB / 0 RB Offset

Channel 132622  
(1775.0MHz)

QPSK

50 RB / 0 RB Offset



LTE Band 66, Channel Bandwidth 15MHz

Channel 132047  
(1717.5MHz)

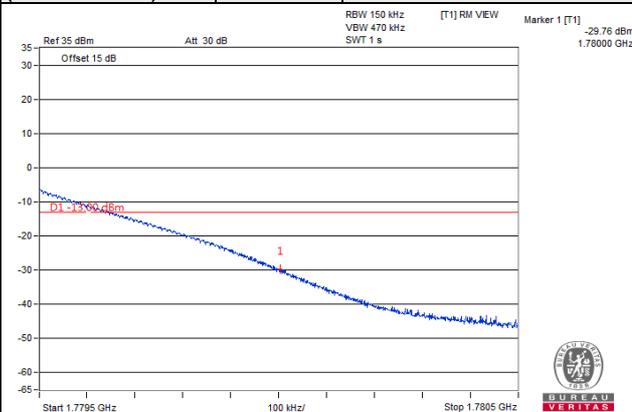
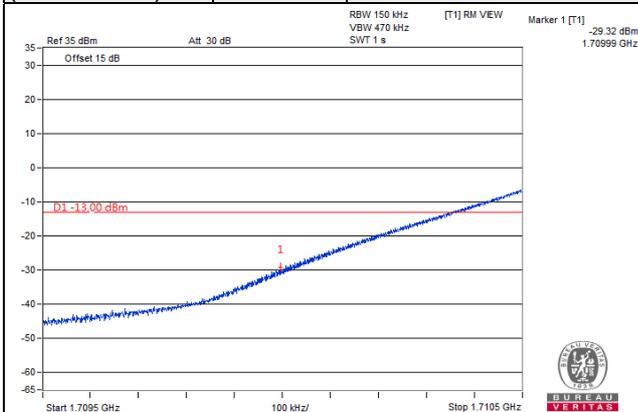
QPSK

1 RB / 0 RB Offset

Channel 132597  
(1772.5MHz)

QPSK

1 RB / 74 RB Offset



Channel 132047  
(1717.5MHz)

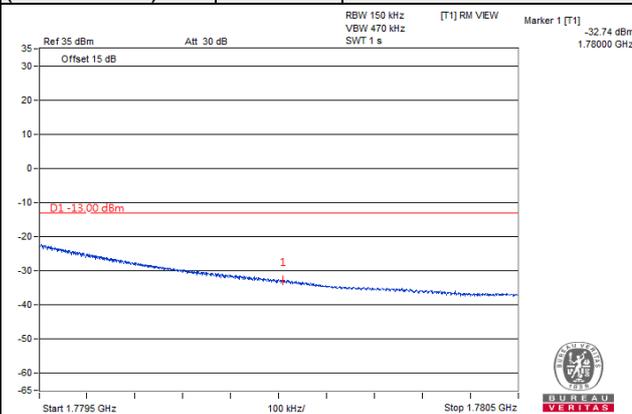
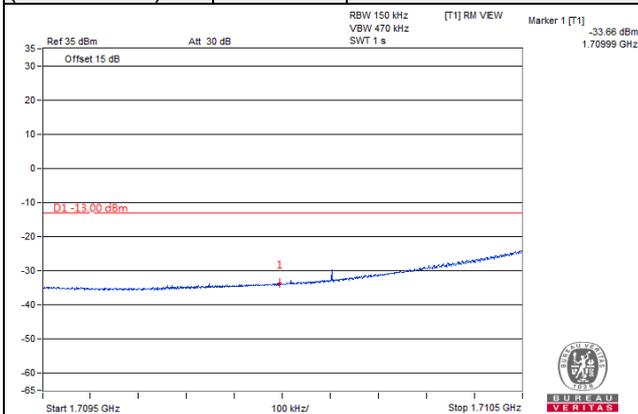
QPSK

75 RB / 0 RB Offset

Channel 132597  
(1772.5MHz)

QPSK

75 RB / 0 RB Offset



LTE Band 66, Channel Bandwidth 20MHz

Channel 132072  
(1720.0MHz)

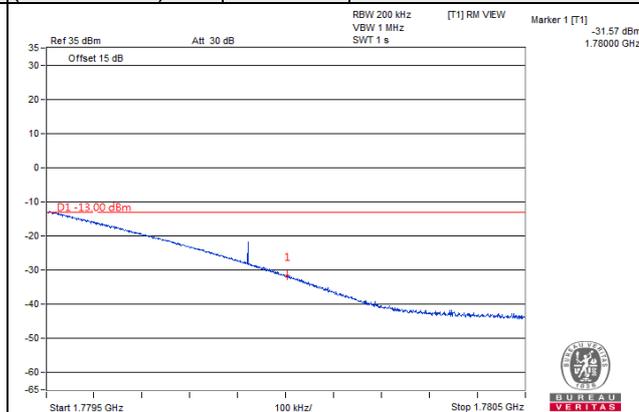
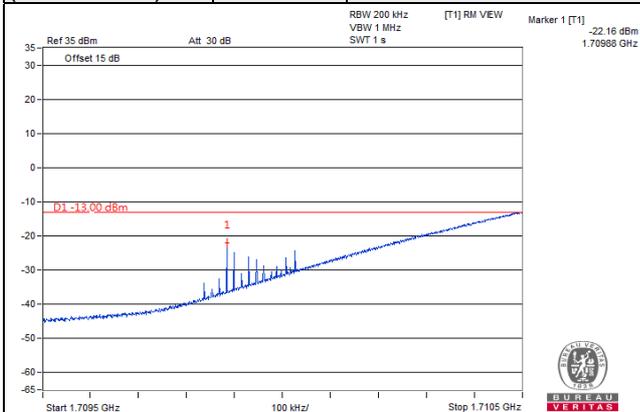
QPSK

1 RB / 0 RB Offset

Channel 132572  
(1770.0MHz)

QPSK

1 RB / 99 RB Offset



Channel 132072  
(1720.0MHz)

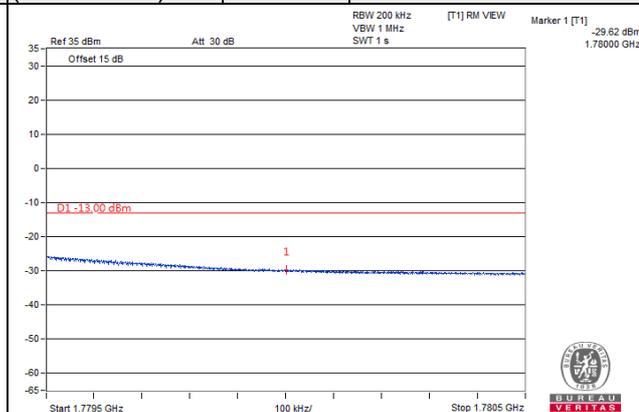
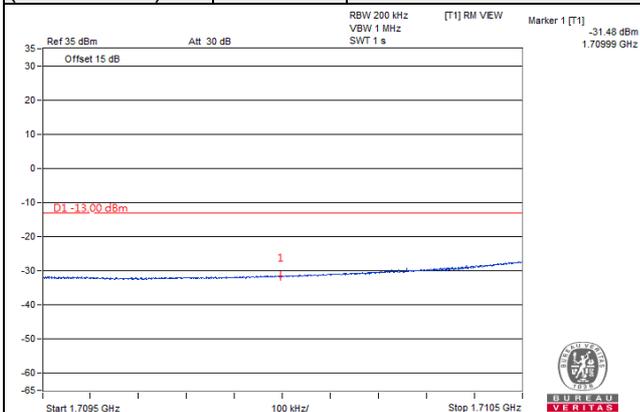
QPSK

100 RB / 0 RB Offset

Channel 132572  
(1770.0MHz)

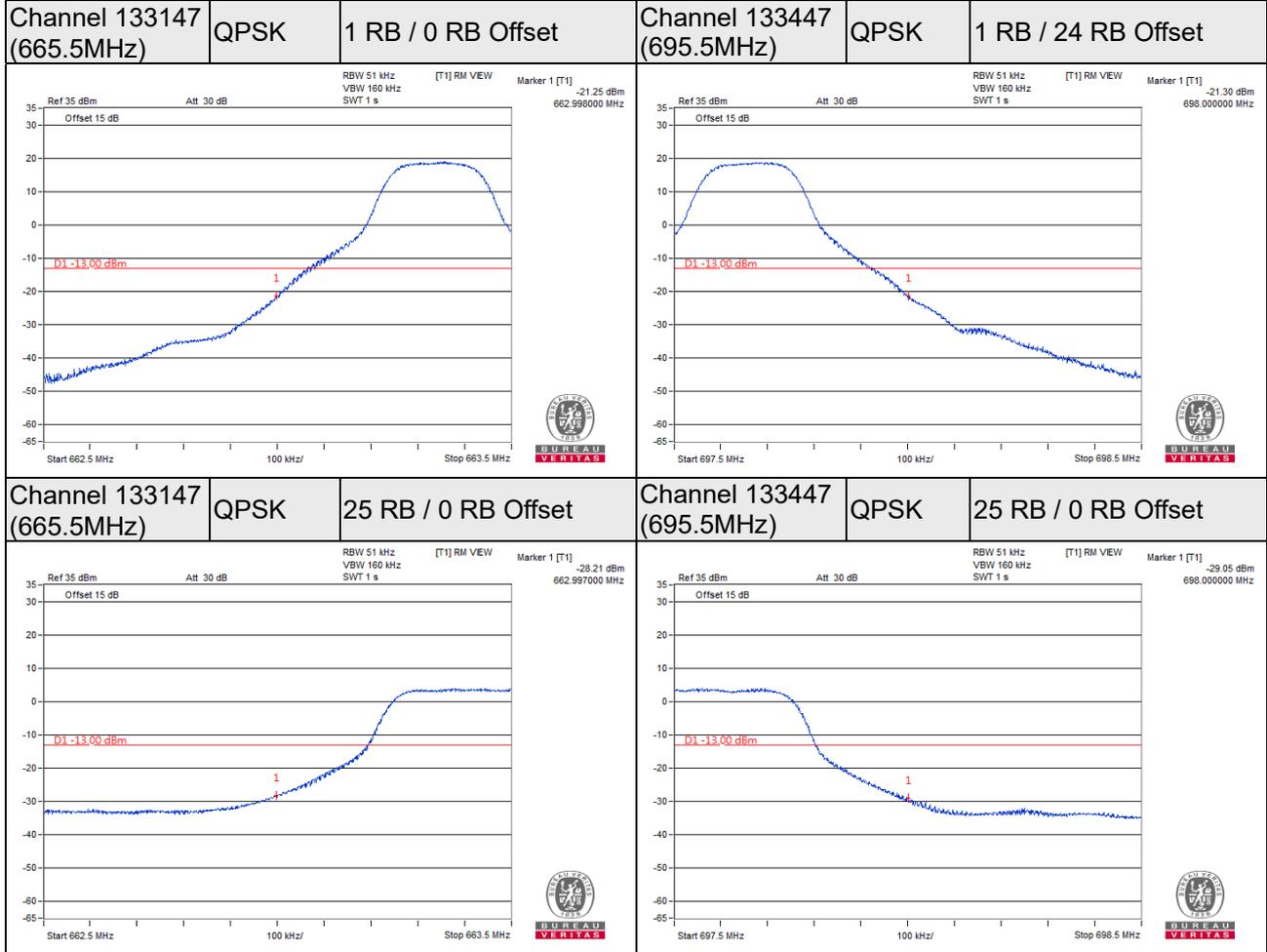
QPSK

100 RB / 0 RB Offset



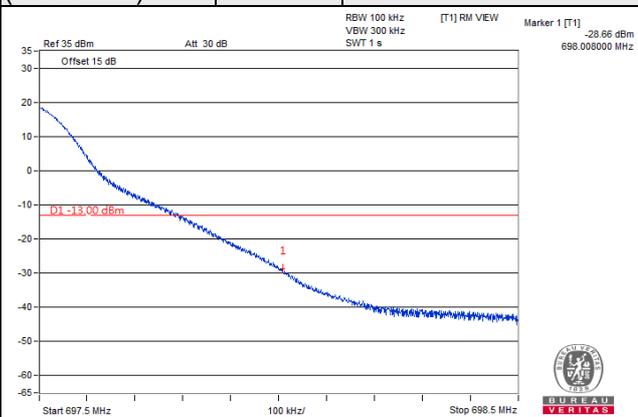
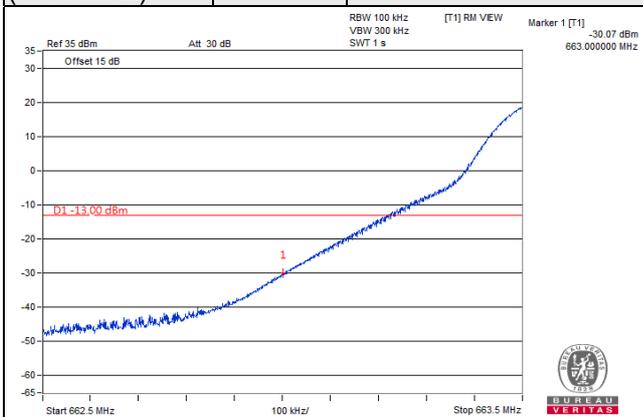
### Band Edge

LTE Band 71, Channel Bandwidth 5MHz

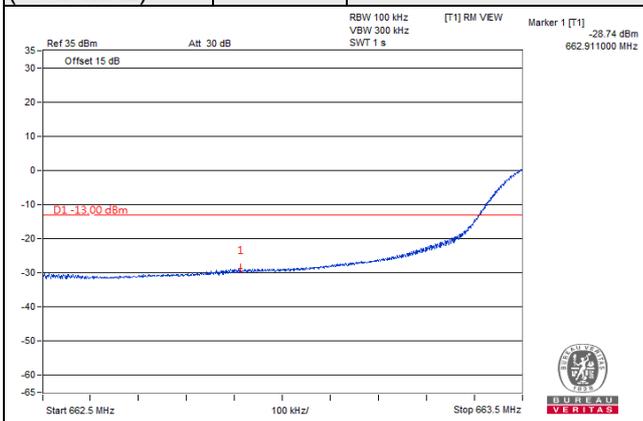


LTE Band 71, Channel Bandwidth 10MHz

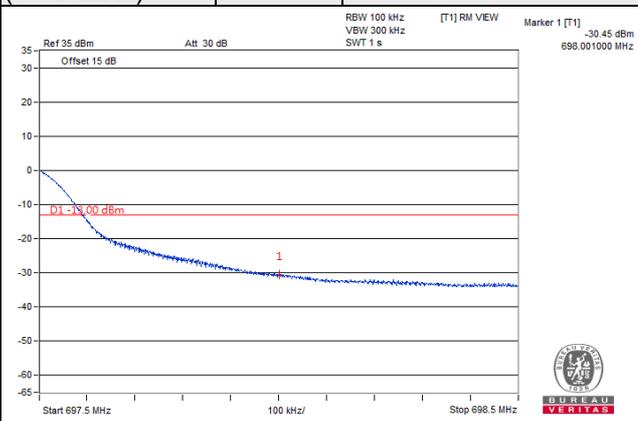
Channel 133172 (668.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 133422 (693.0MHz)	QPSK	1 RB / 49 RB Offset
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Channel 133172 (668.0MHz)	QPSK	50 RB / 0 RB Offse
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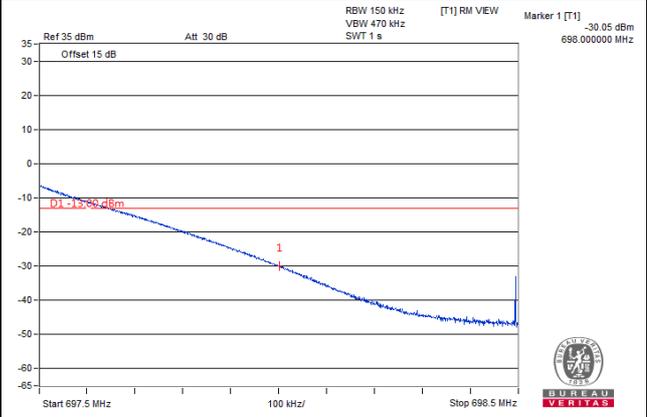
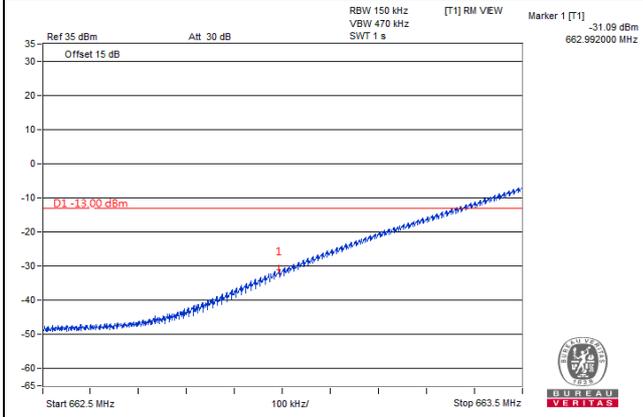


Channel 133422 (693.0MHz)	QPSK	50 RB / 0 RB Offset
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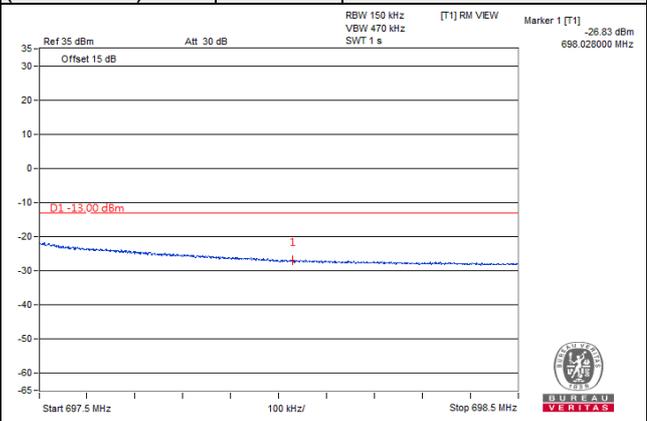
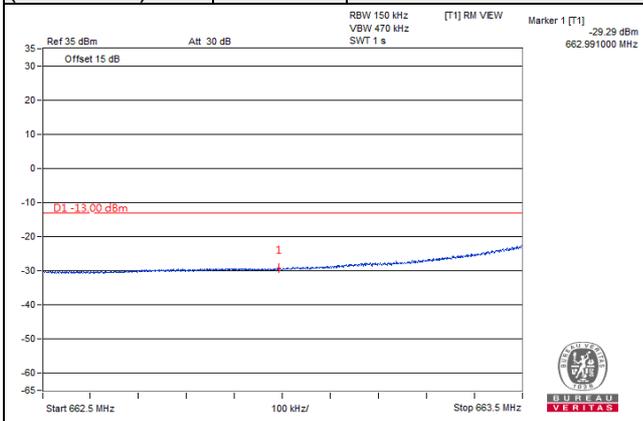


LTE Band 71, Channel Bandwidth 15MHz

Channel 133197 (670.5MHz)	QPSK	1 RB / 0 RB Offset	Channel 133397 (690.5MHz)	QPSK	1 RB / 74 RB Offset
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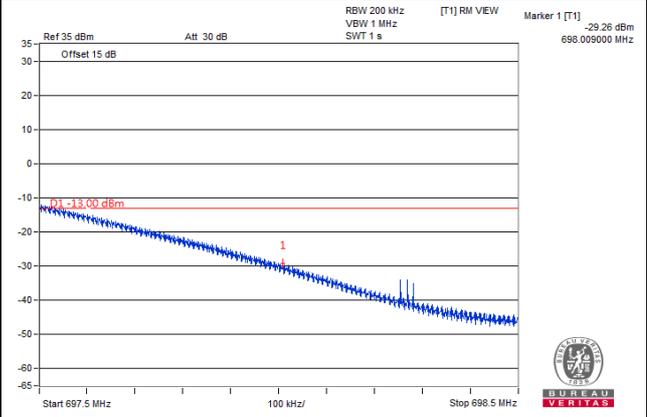
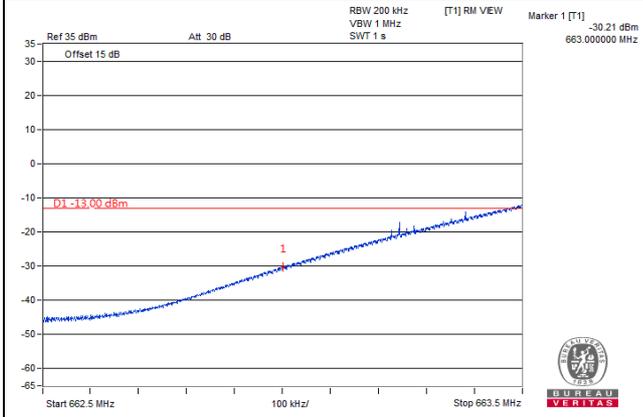


Channel 133197 (670.5MHz)	QPSK	75 RB / 0 RB Offset	Channel 133397 (690.5MHz)	QPSK	75 RB / 0 RB Offset
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LTE Band 71, Channel Bandwidth 20MHz

Channel 133222 (673.0MHz)	QPSK	1 RB / 0 RB Offset	Channel 133372 (688.0MHz)	QPSK	1 RB / 99 RB Offset
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Channel 133222 (673.0MHz)	QPSK	100 RB / 0 RB Offset	Channel 133372 (688.0MHz)	QPSK	100 RB / 0 RB Offset
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