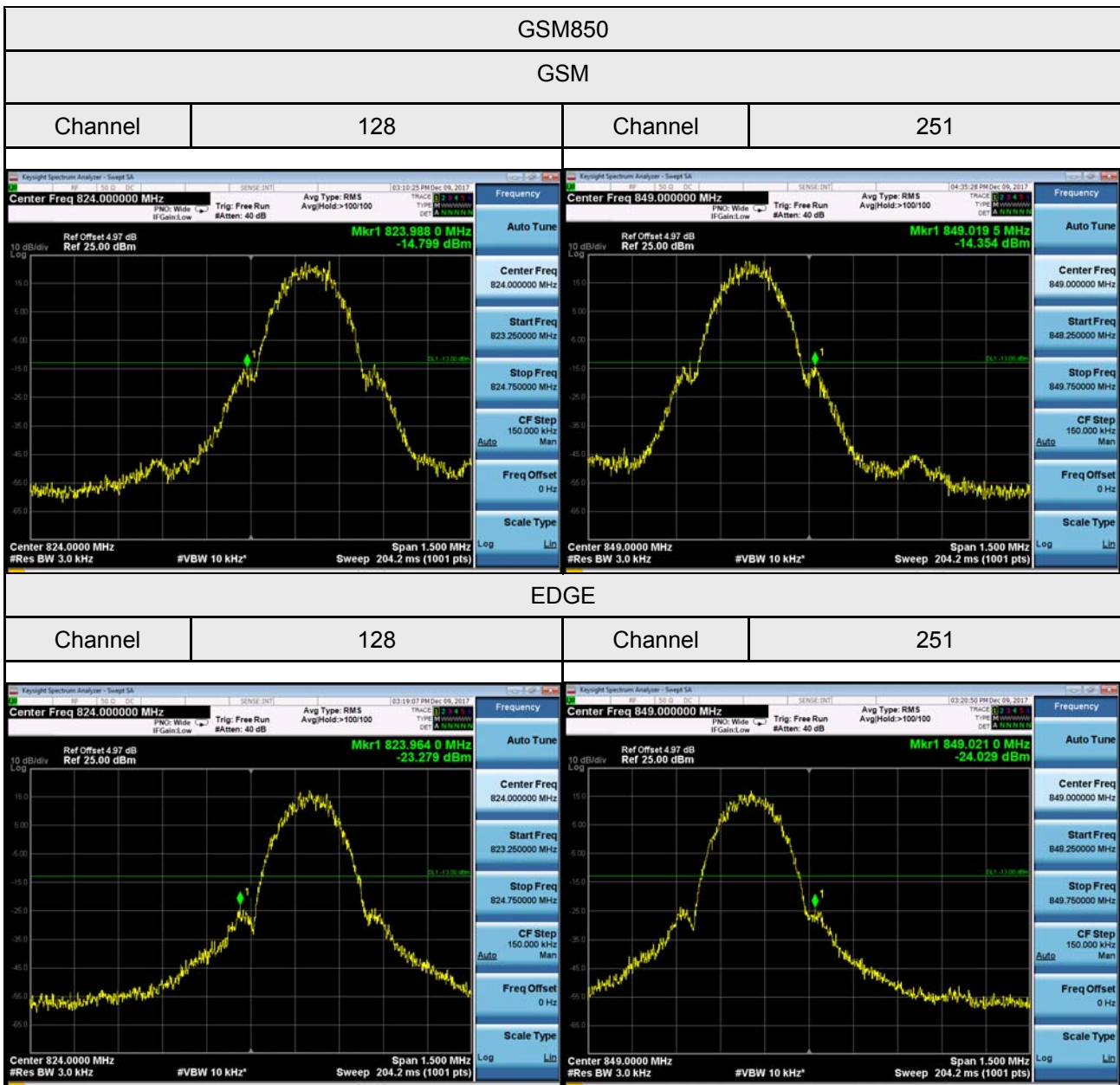
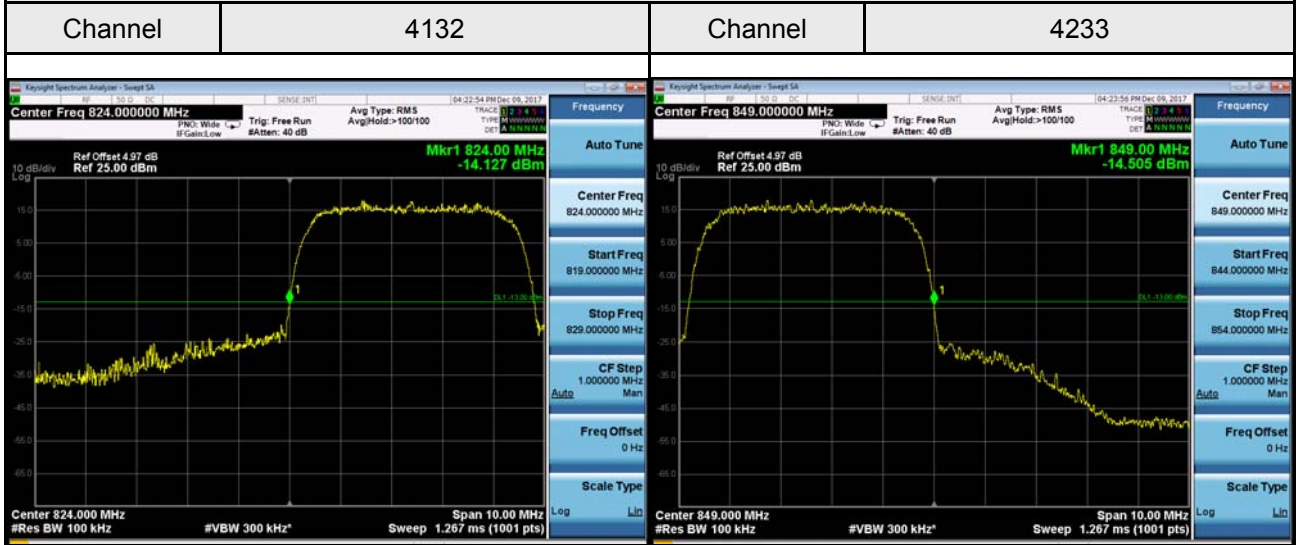


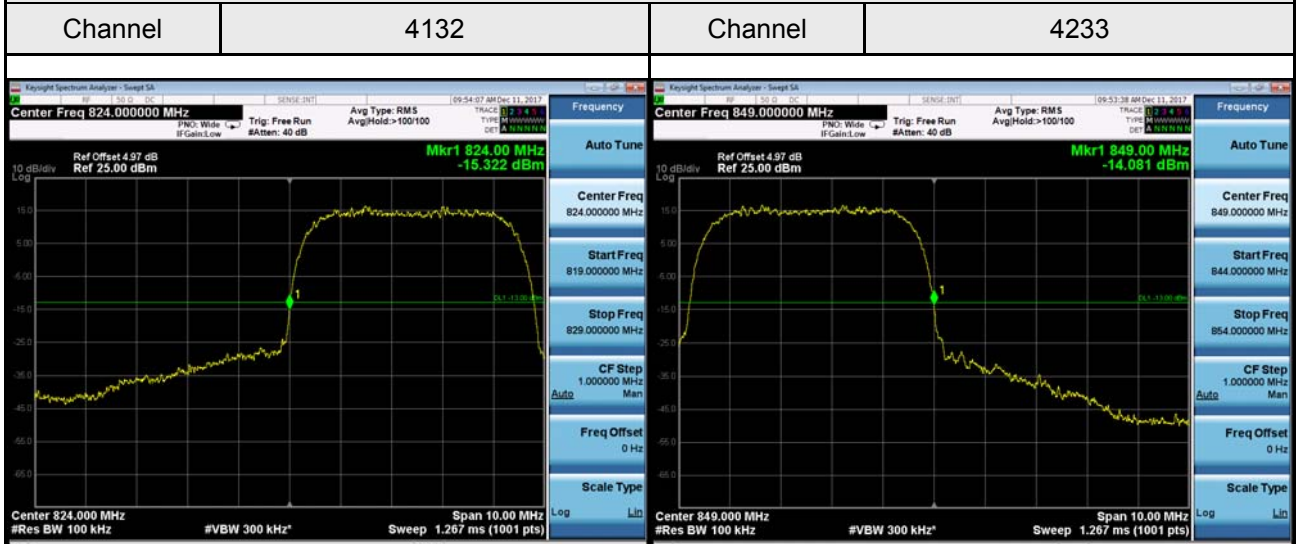
## APPENDIX E - BAND EDGE



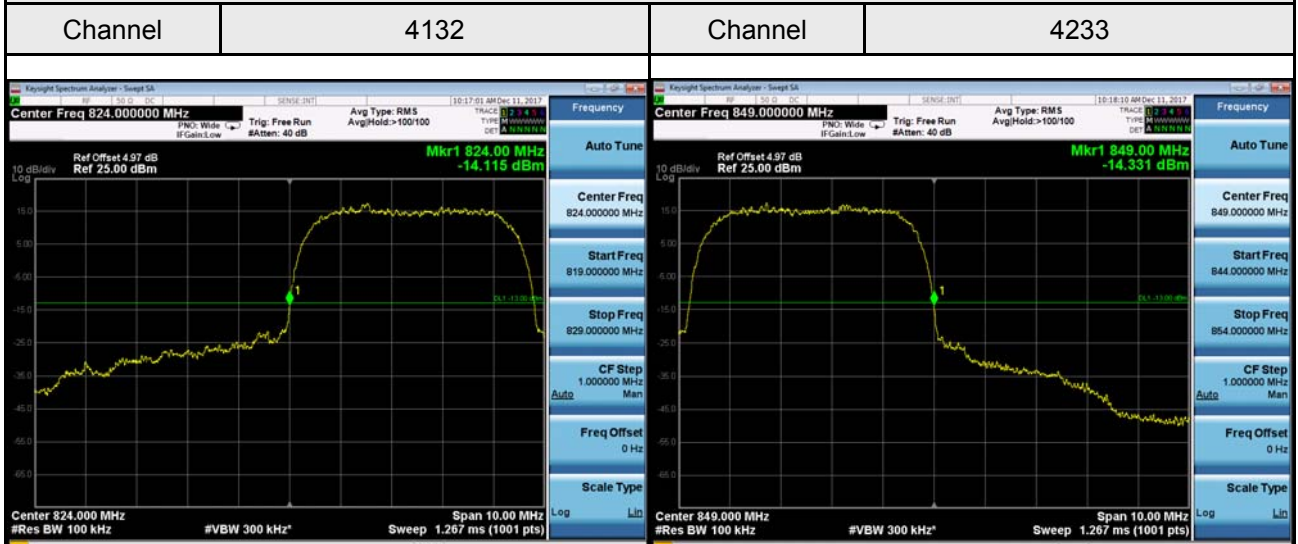
### WCDMA Band V

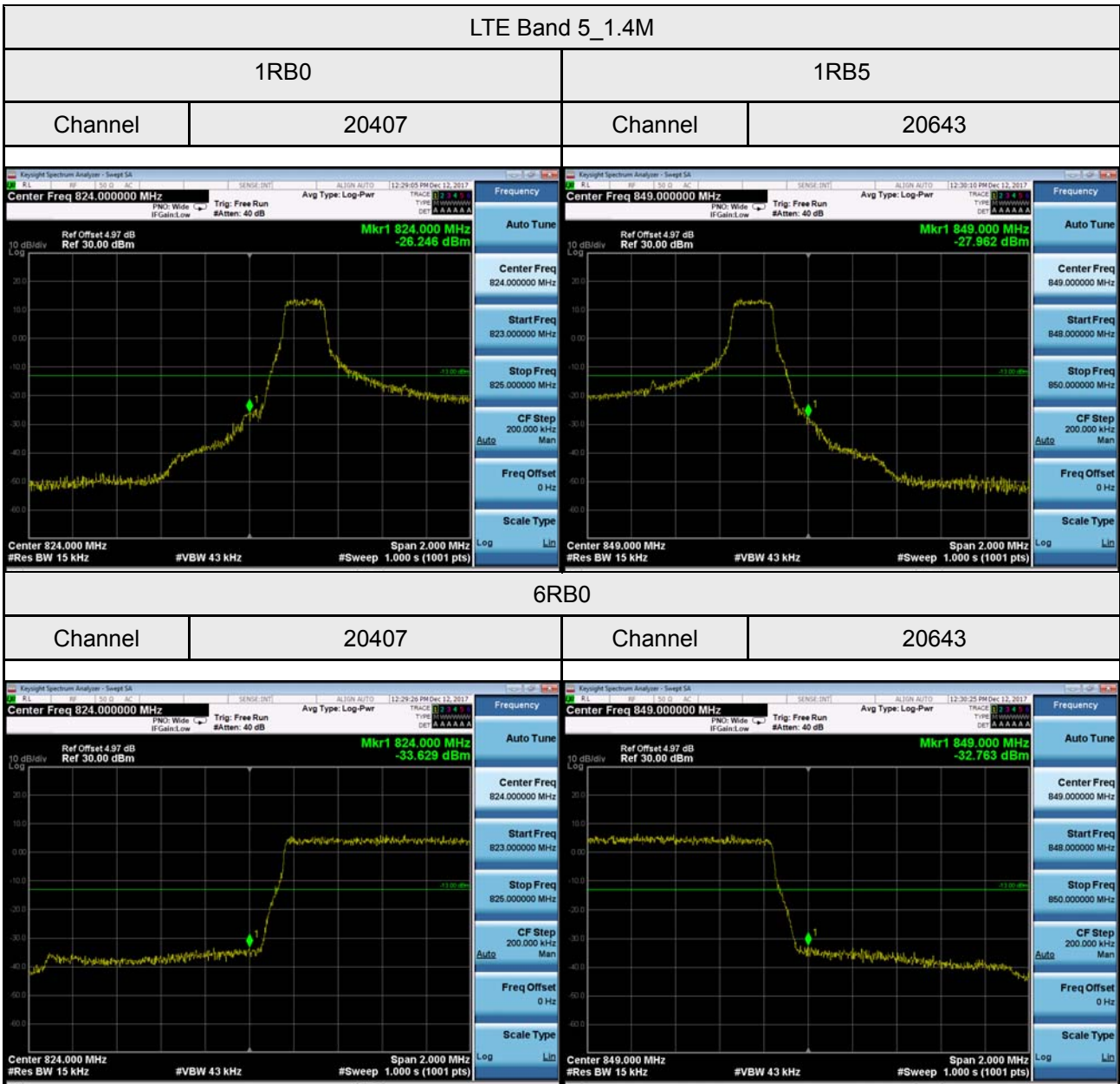


### WCDMA\_HSDPA Band V



### WCDMA\_HSUPA Band V





LTE Band 5\_3M

1RB0

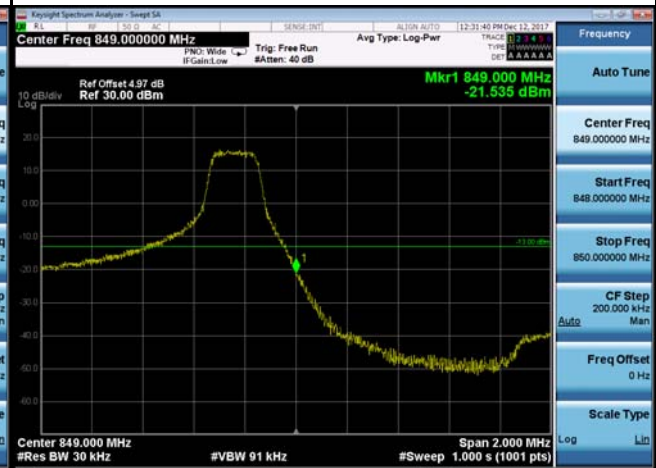
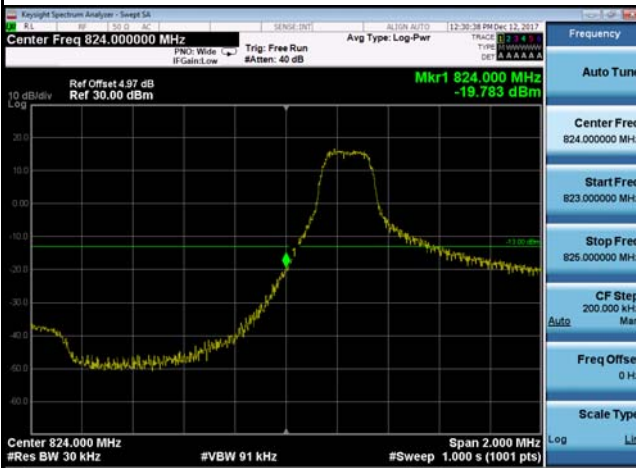
1RB14

Channel

20415

Channel

20635



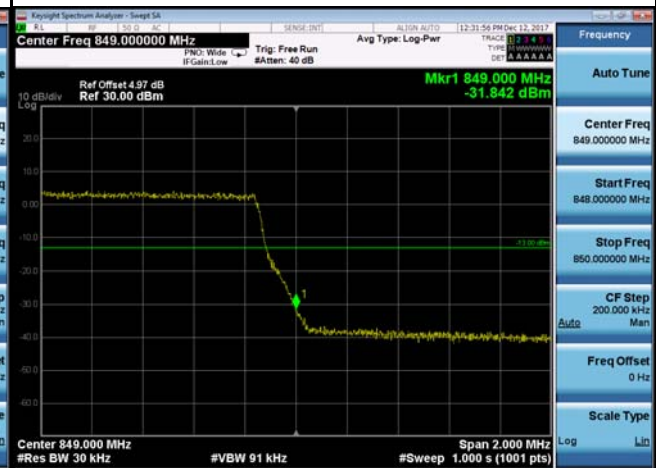
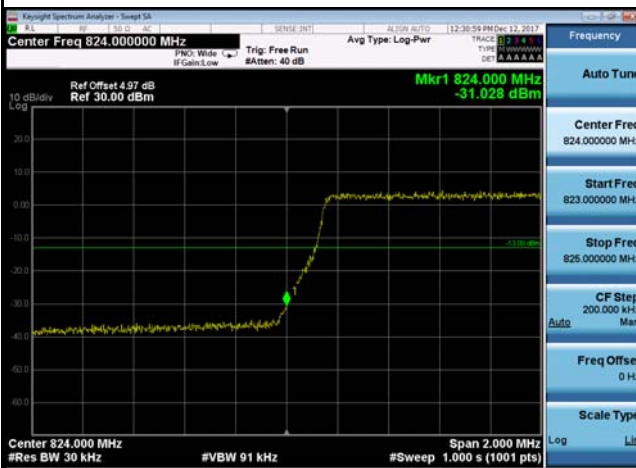
15RB0

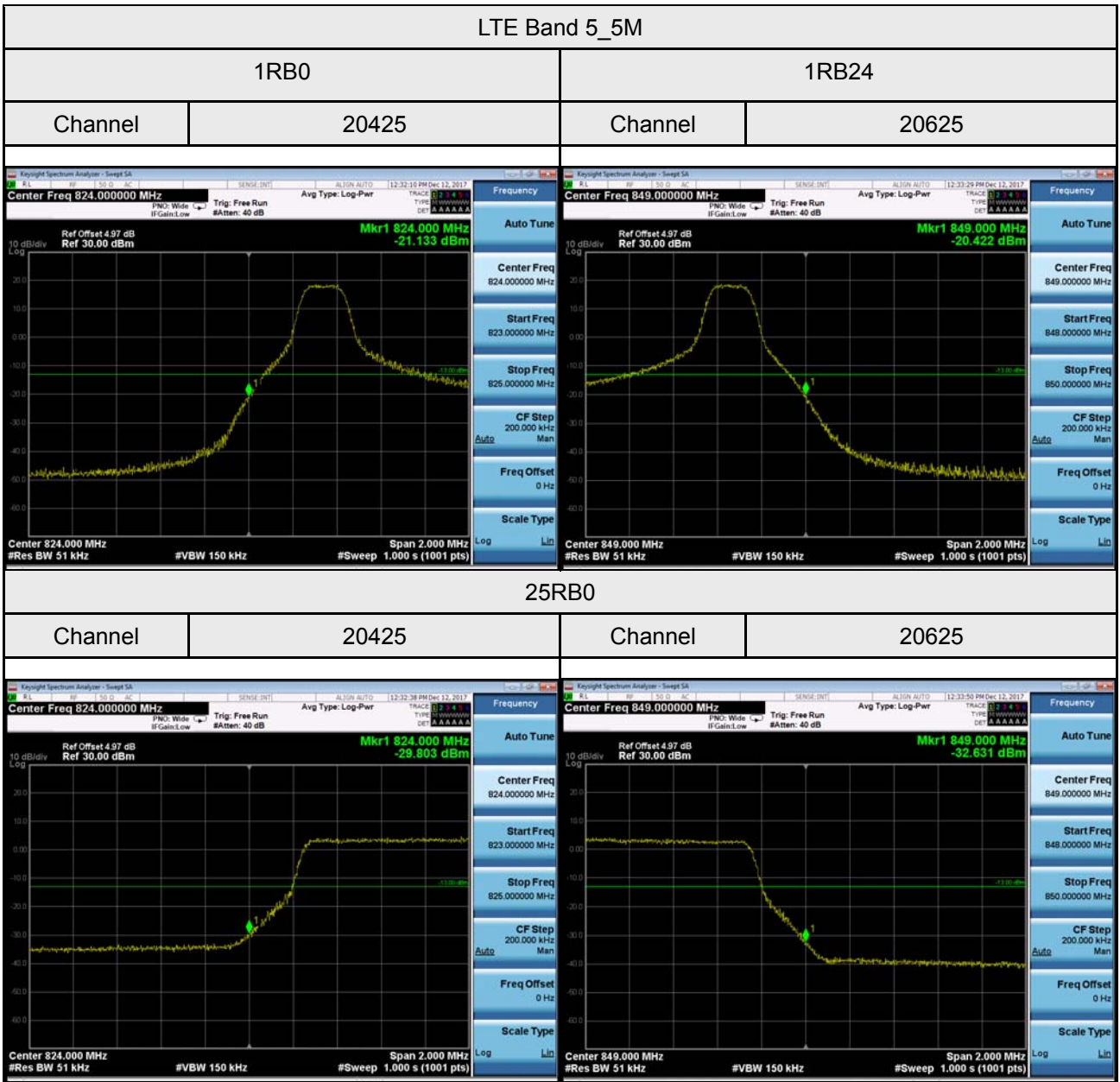
Channel

20415

Channel

20635





LTE Band 5\_10M

1RB0

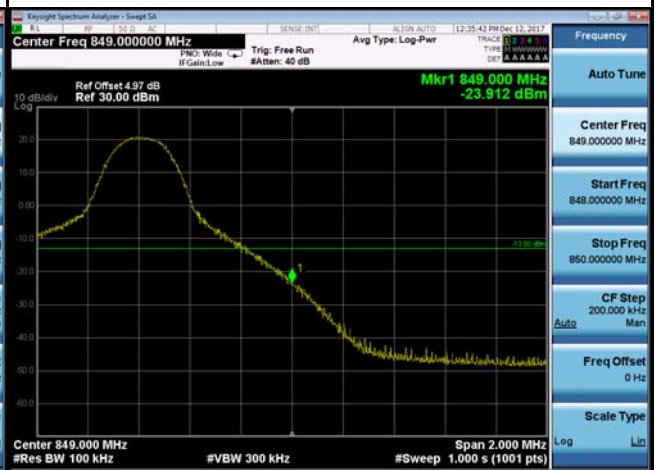
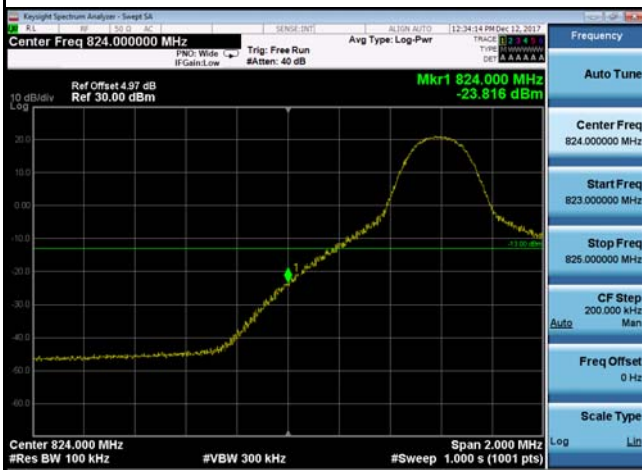
1RB49

Channel

20450

Channel

20600



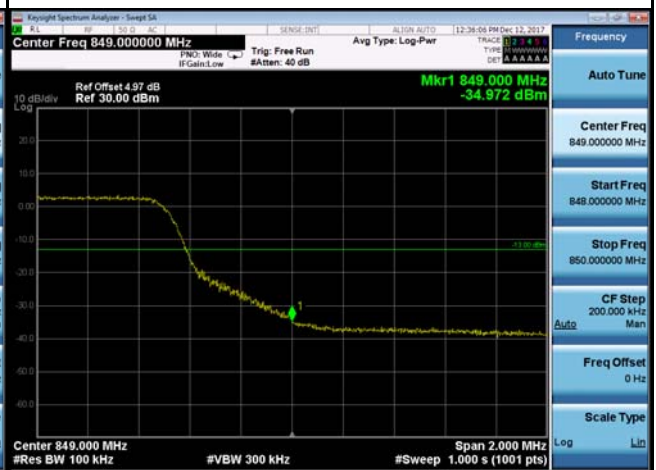
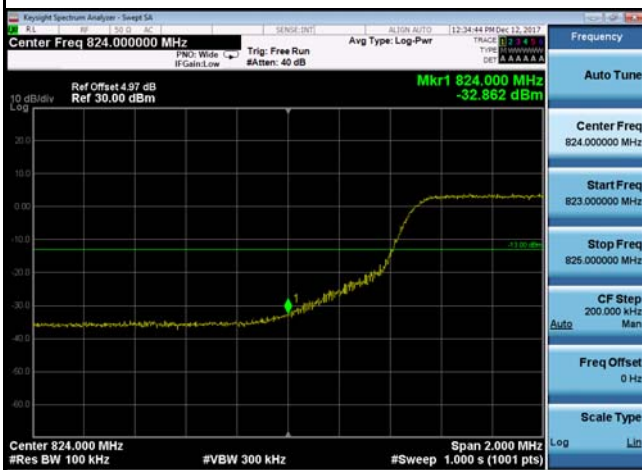
50RB0

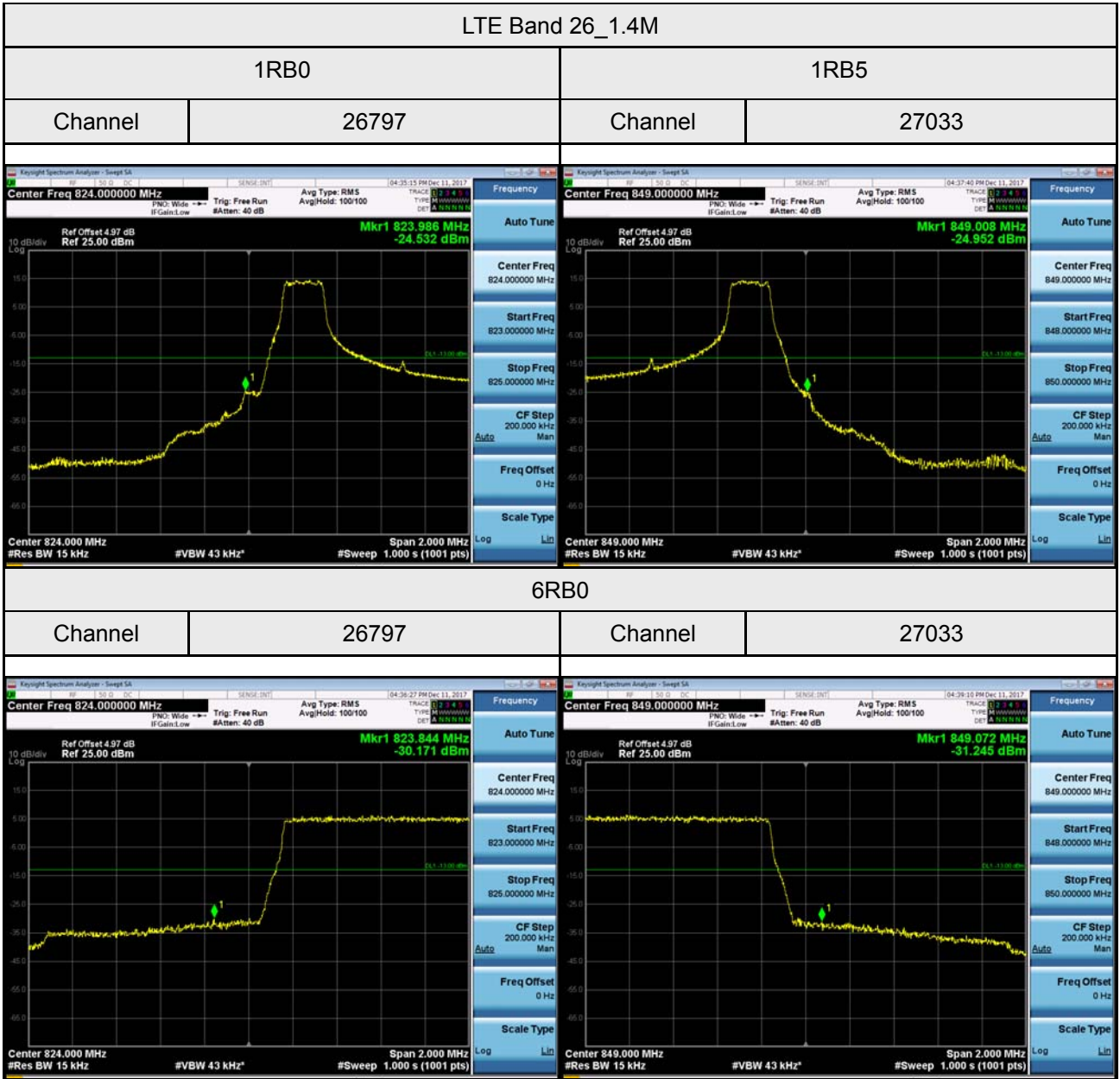
Channel

20450

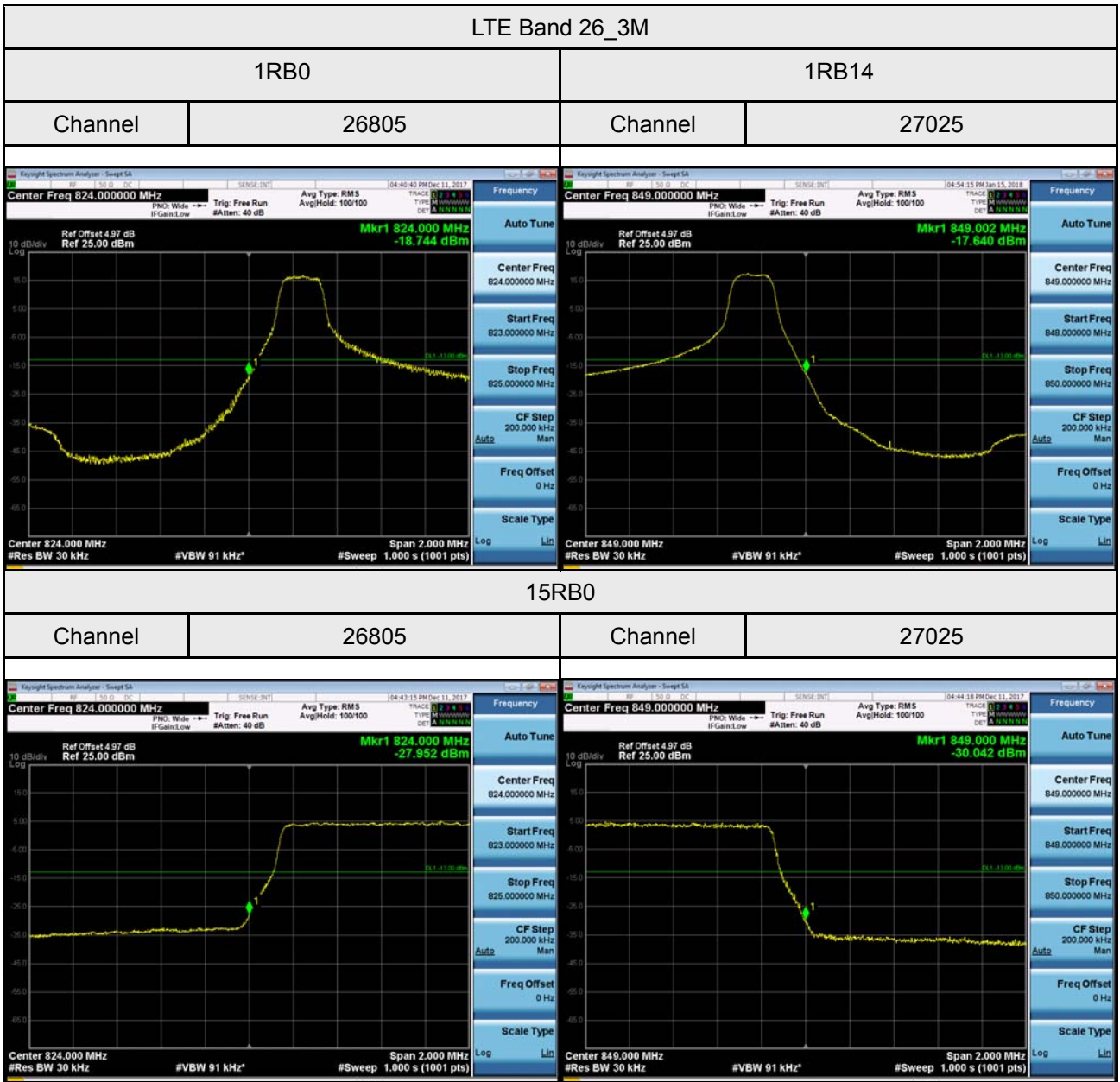
Channel

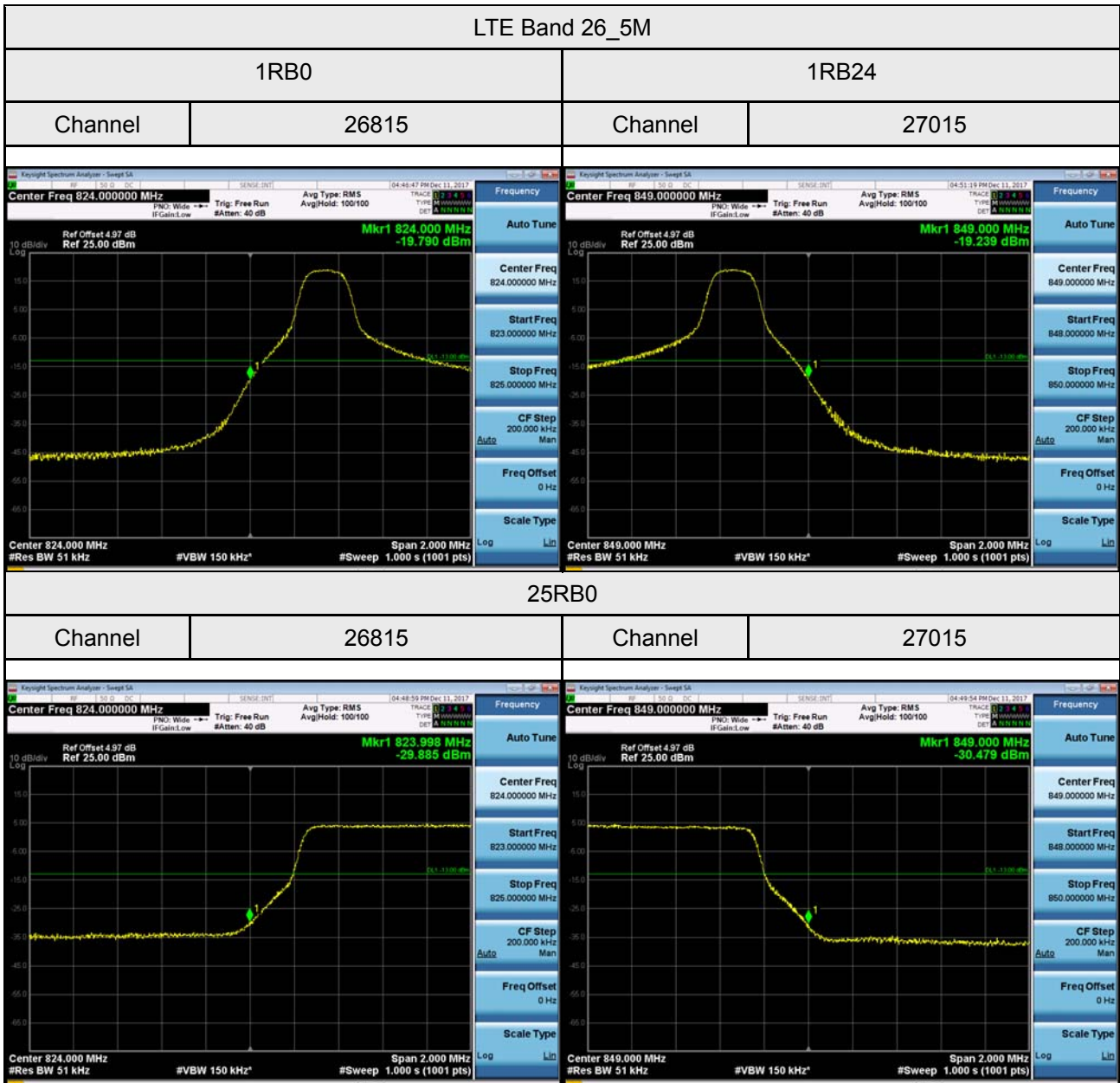
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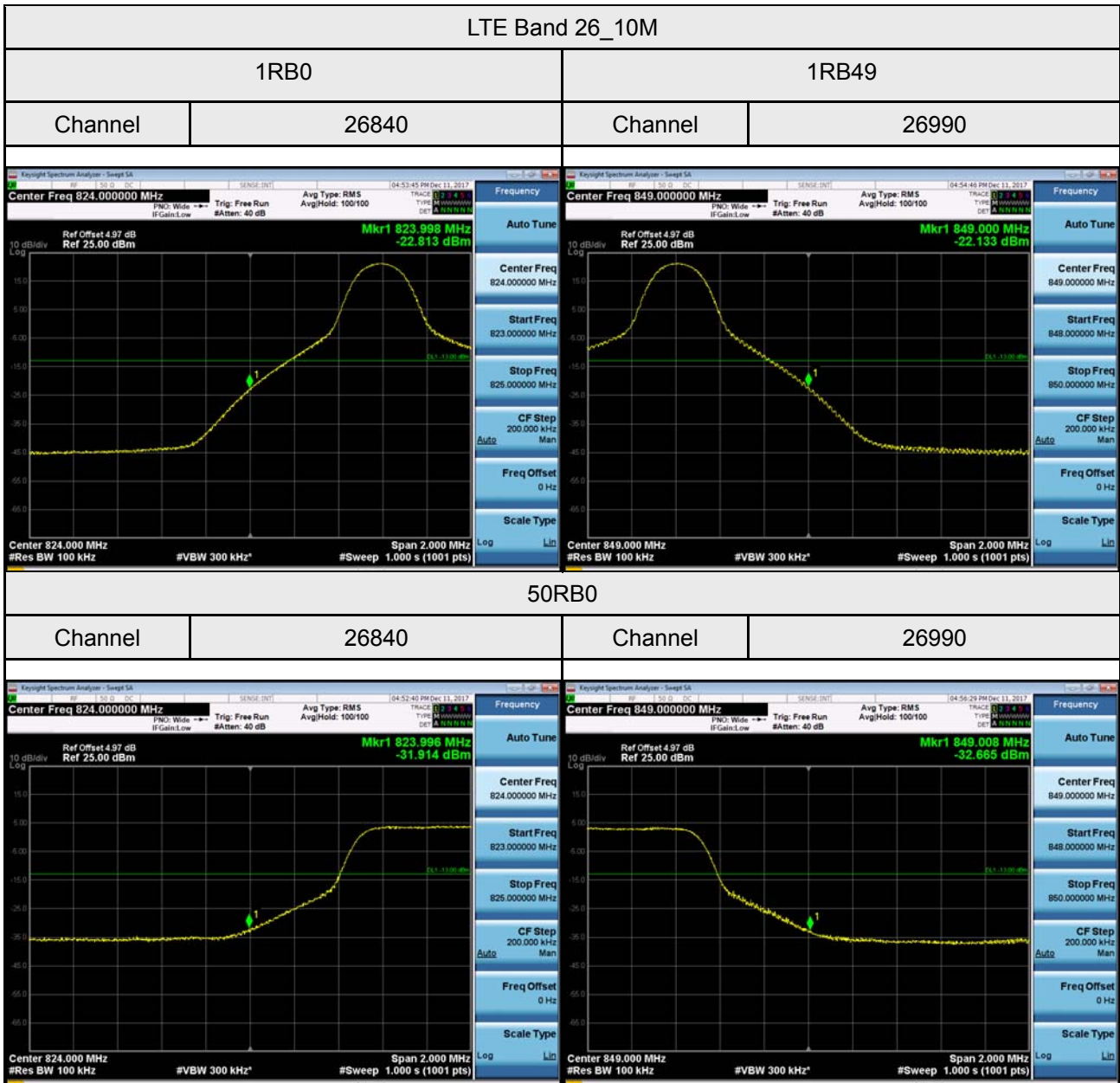












LTE Band 26\_15M

1RB0

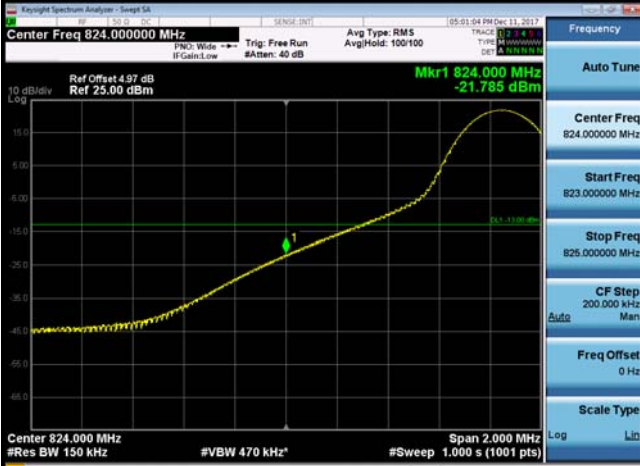
1RB74

Channel

26865

Channel

26965



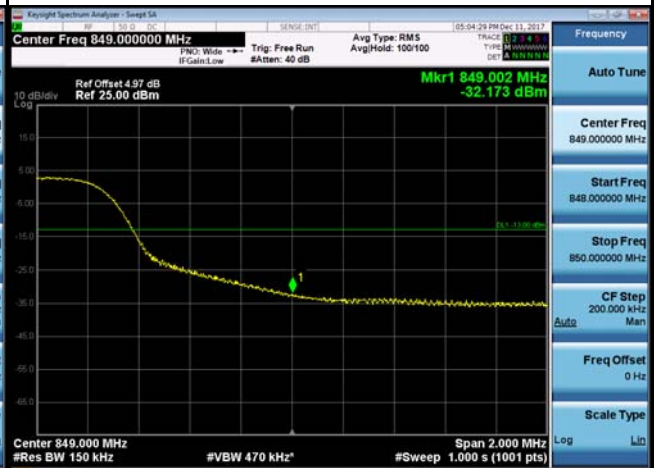
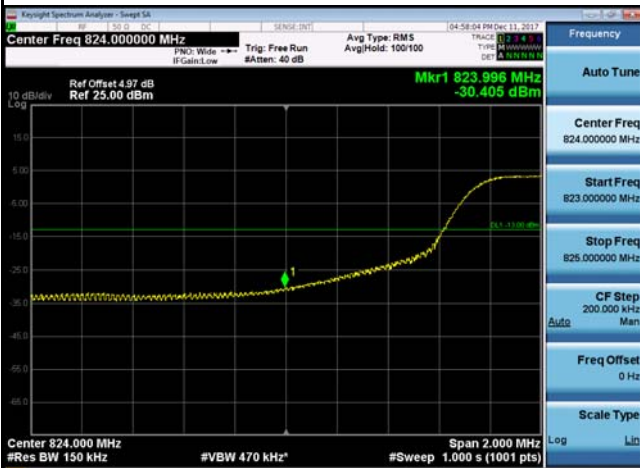
75RB0

Channel

26865

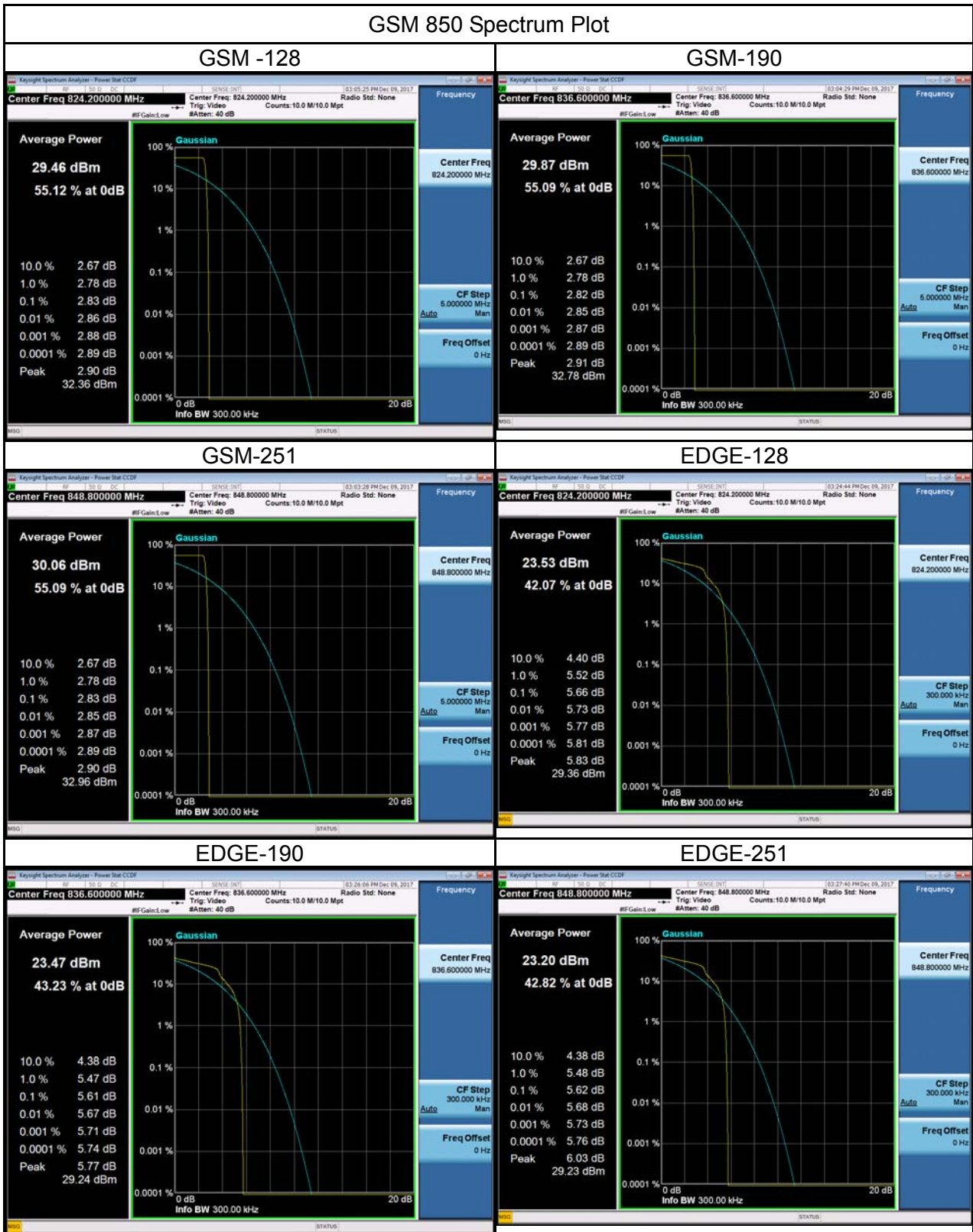
Channel

26965



## APPENDIX F - PEAK TO AVERAGE RATIO

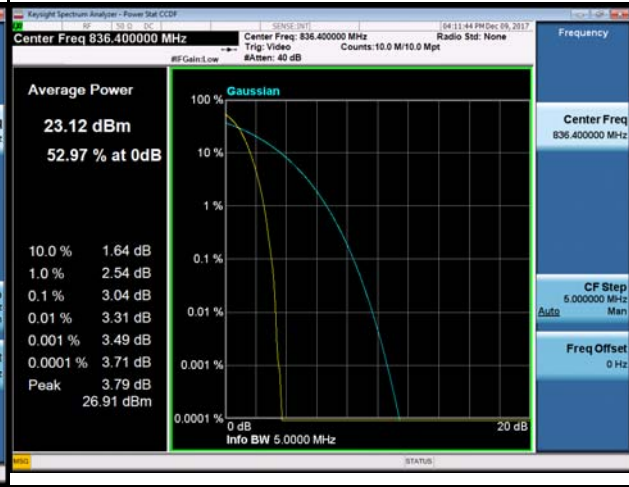
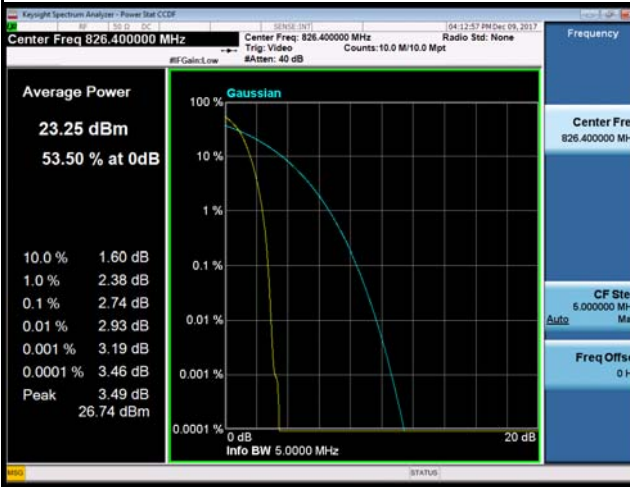
### GSM 850 Spectrum Plot



### WCDMA Band V Spectrum Plot

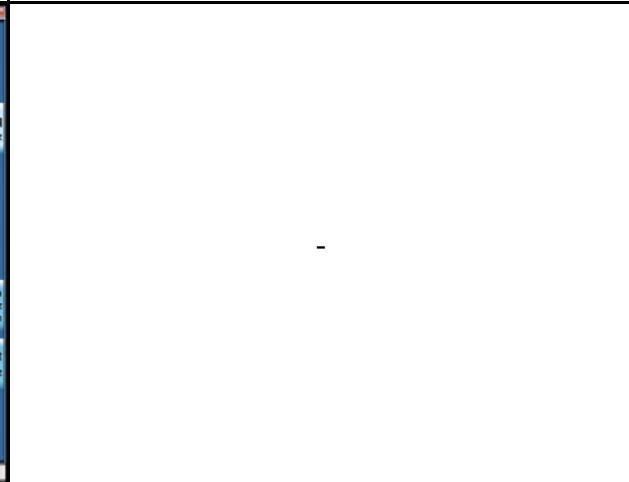
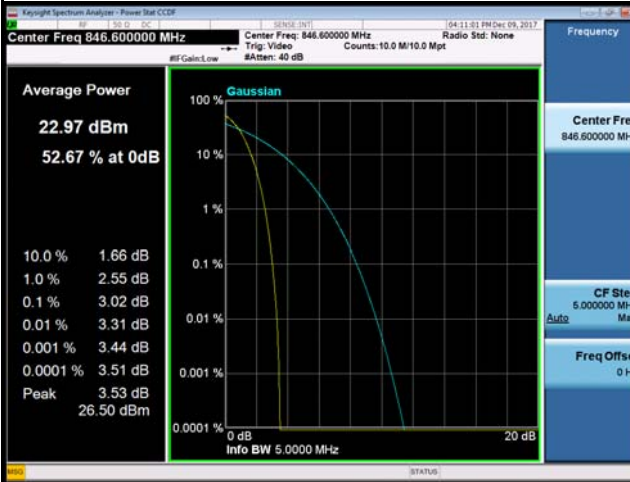
4132

4182



4233

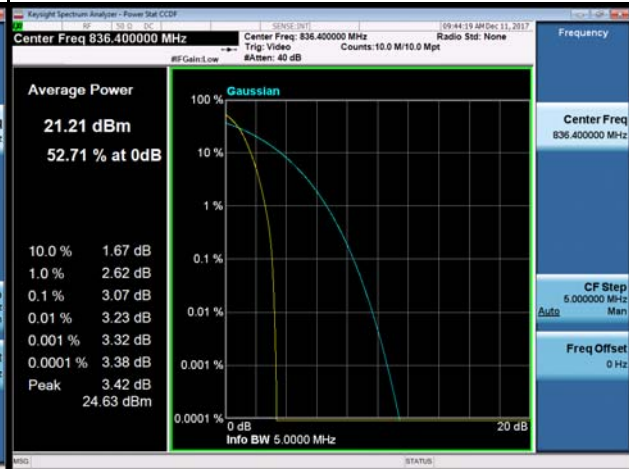
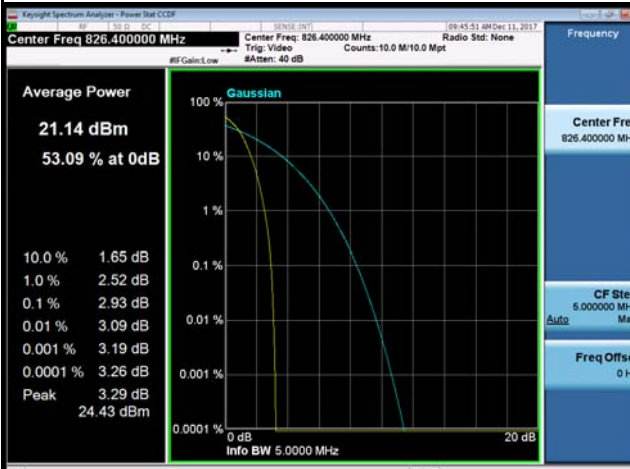
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### WCDMA\_HSDPA Band V Spectrum Plot

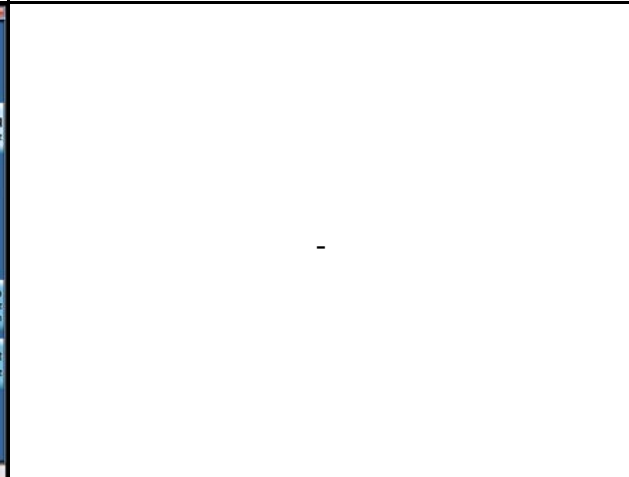
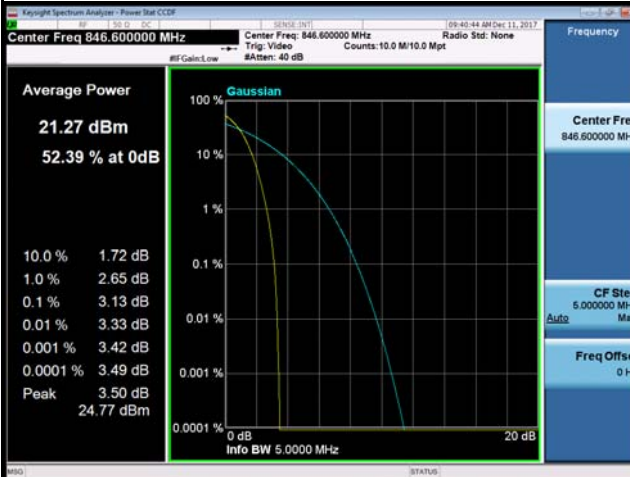
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4182



4233

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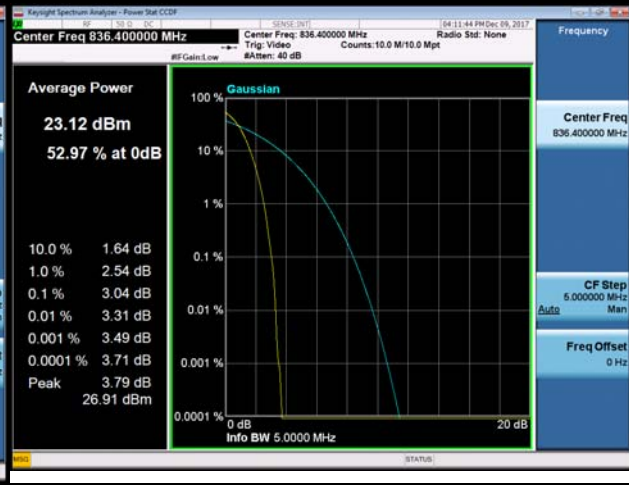
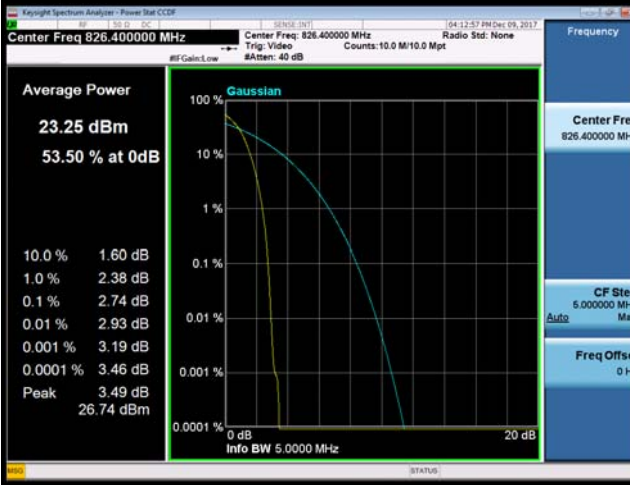




### WCDMA\_HSUPA Band V Spectrum Plot

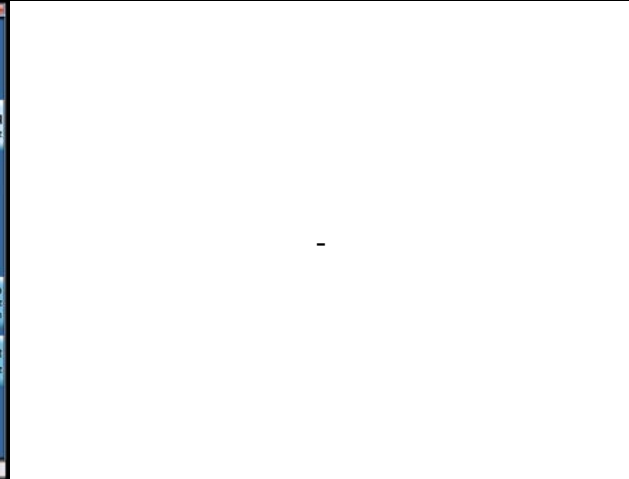
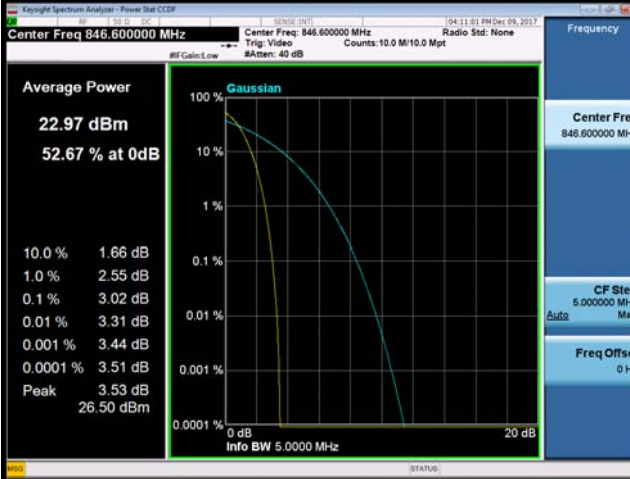
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4182

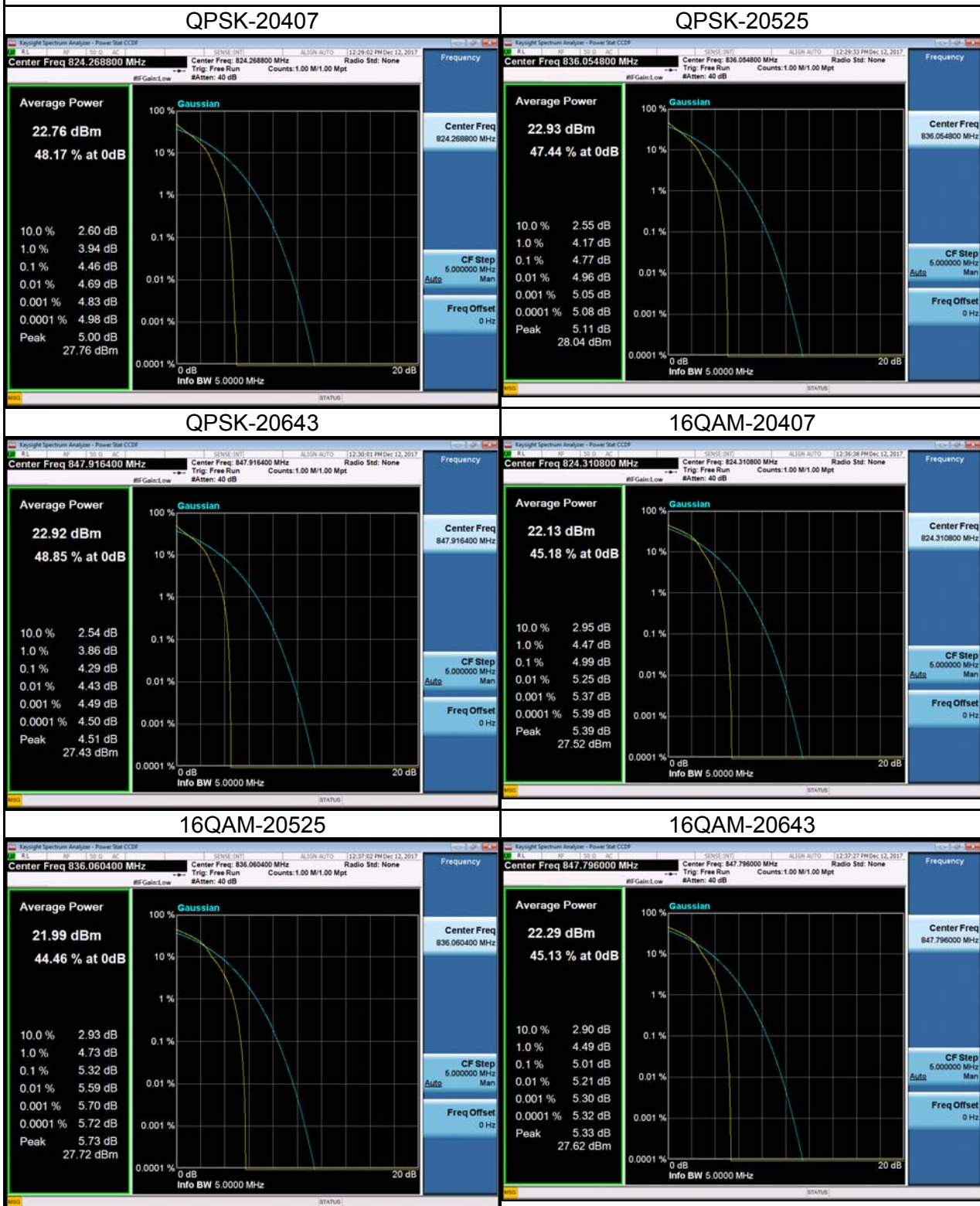


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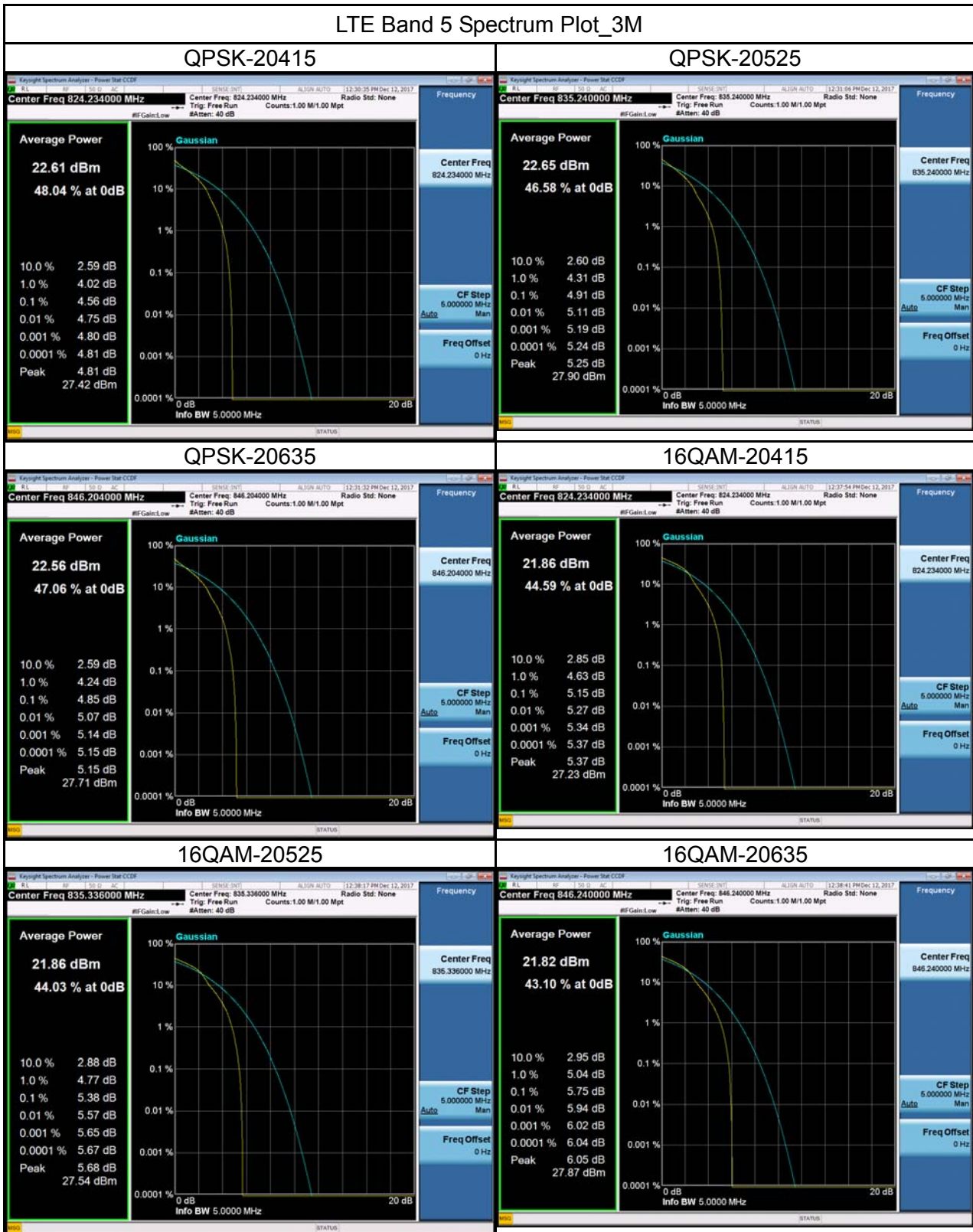
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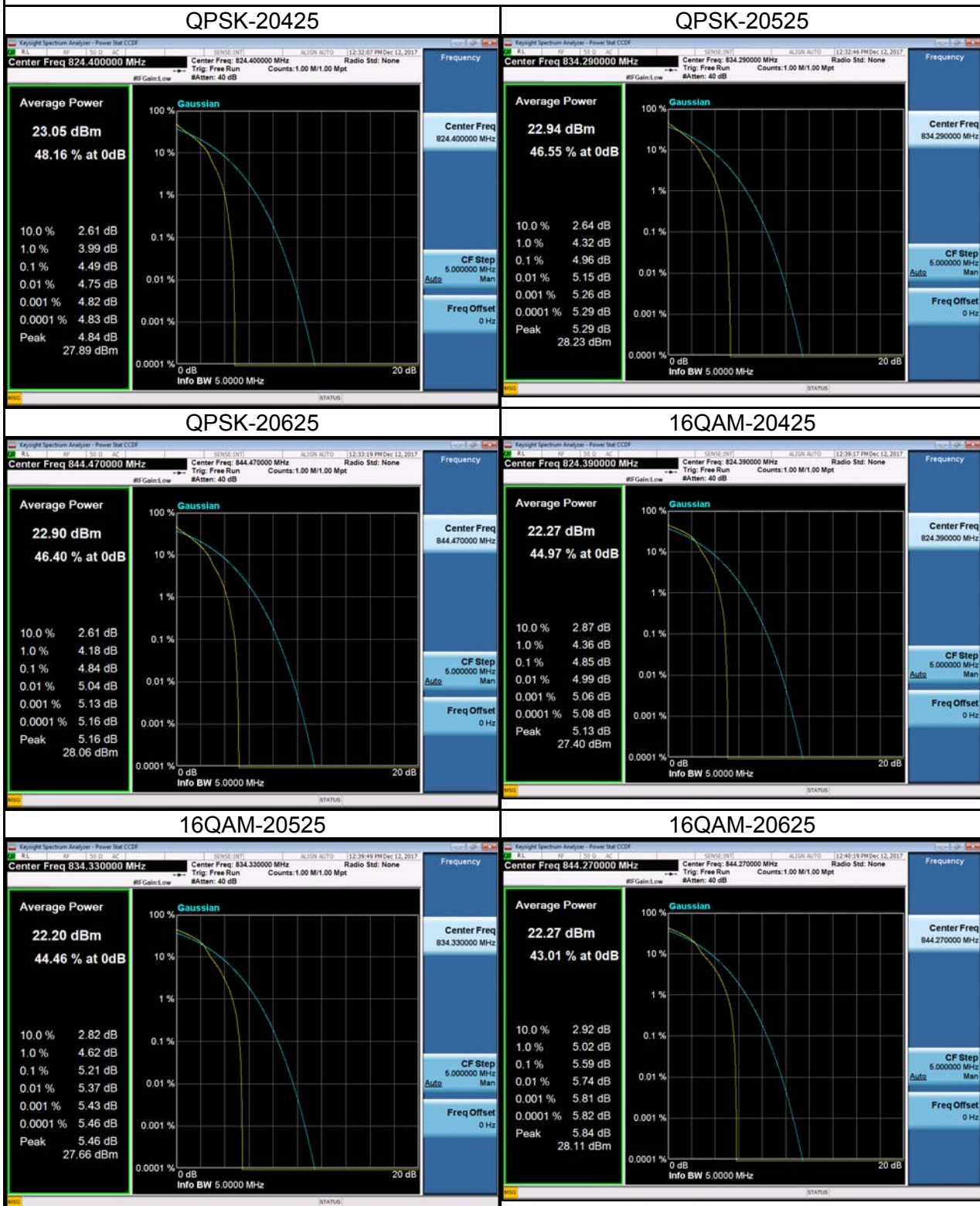
### LTE Band 5 Spectrum Plot\_1.4M



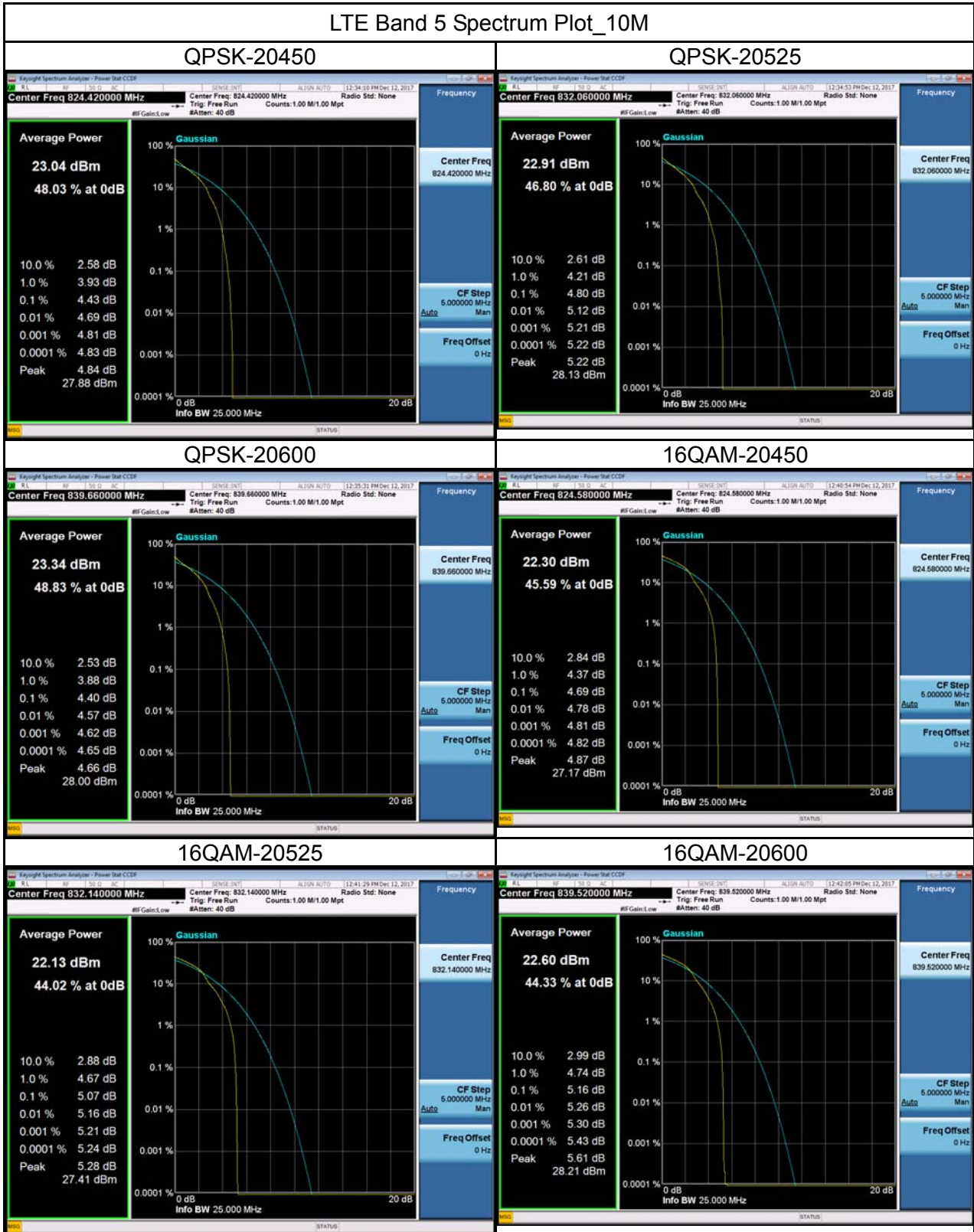
### LTE Band 5 Spectrum Plot\_3M



### LTE Band 5 Spectrum Plot\_5M



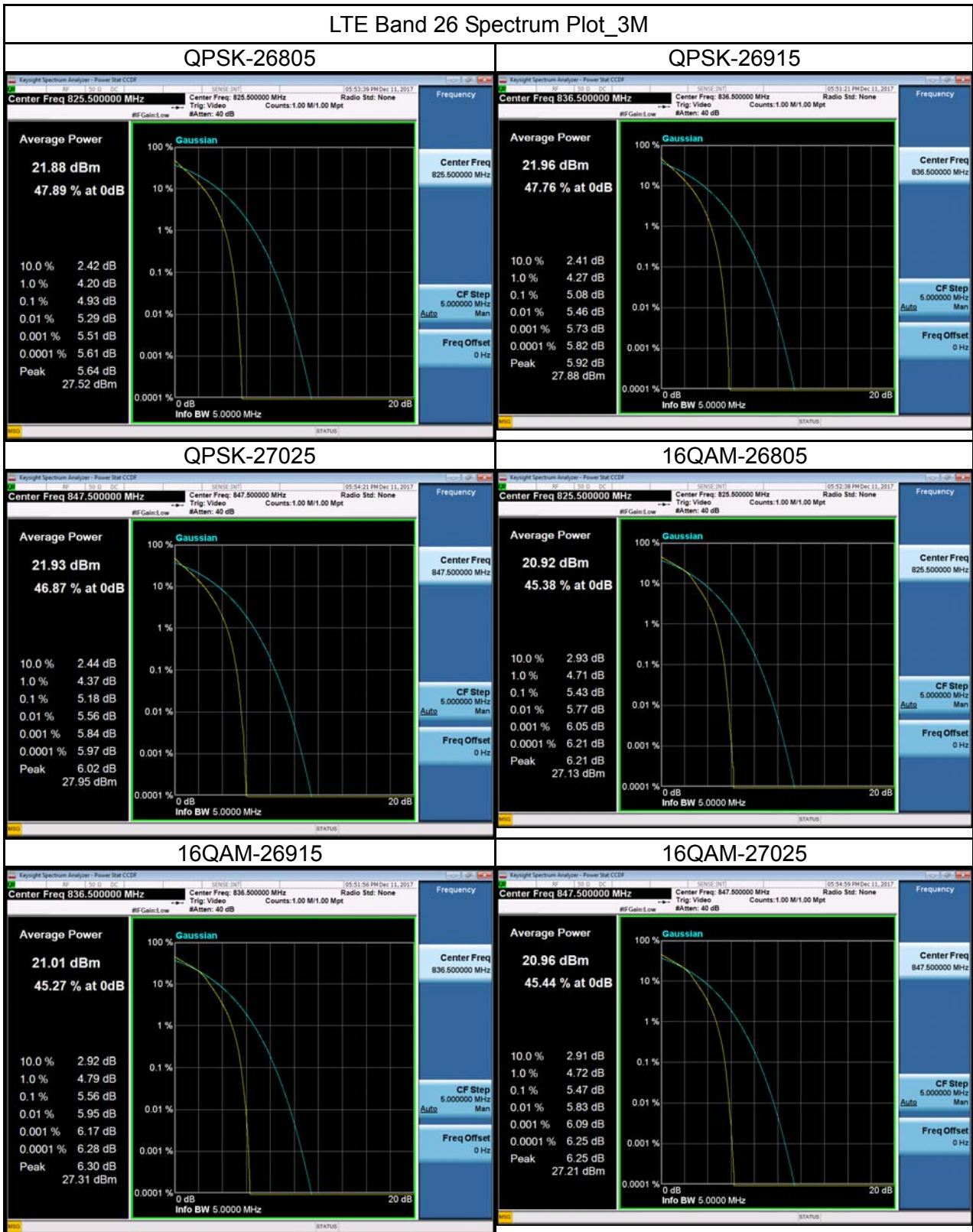
### LTE Band 5 Spectrum Plot\_10M



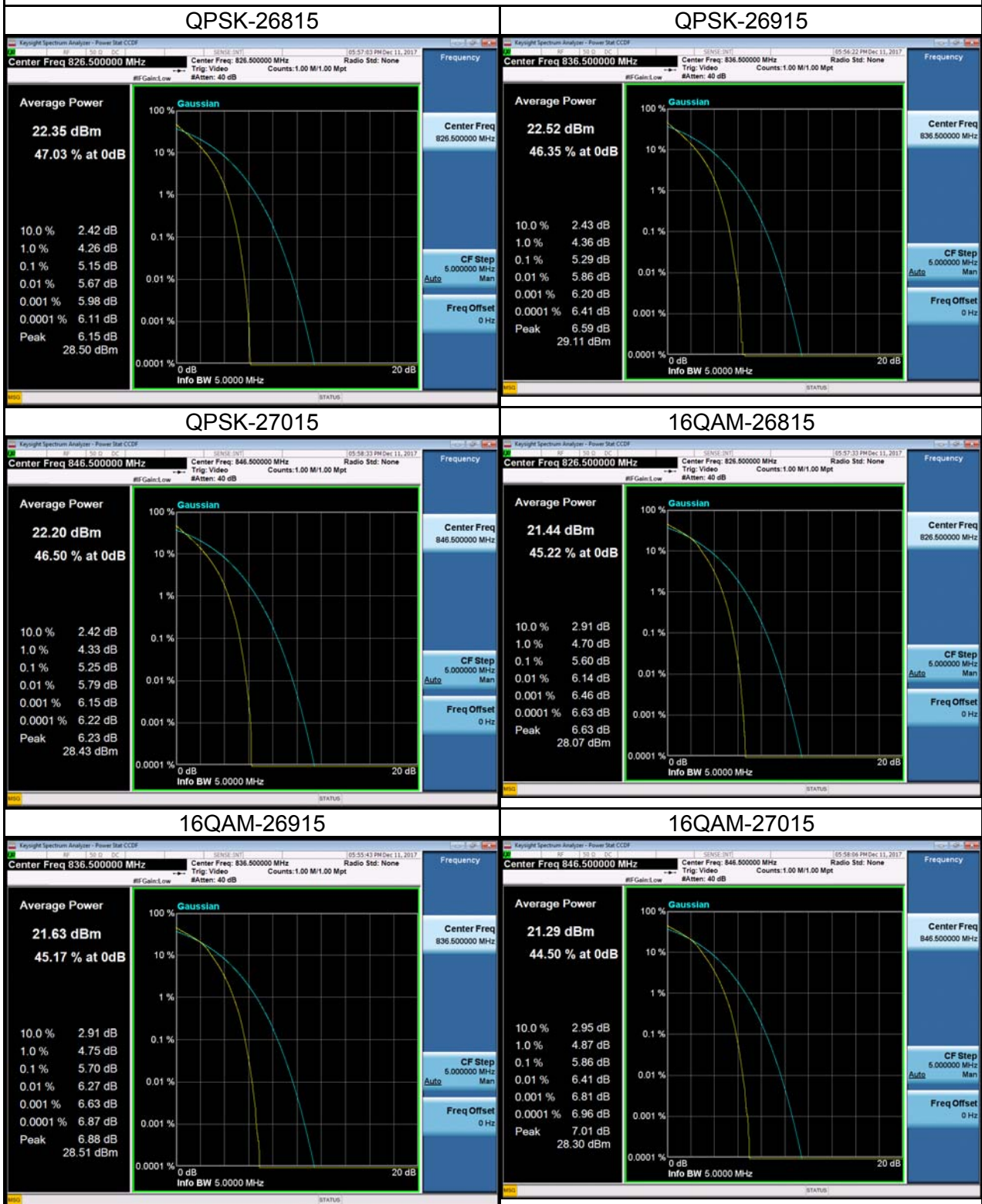
### LTE Band 26 Spectrum Plot\_1.4M



### LTE Band 26 Spectrum Plot\_3M

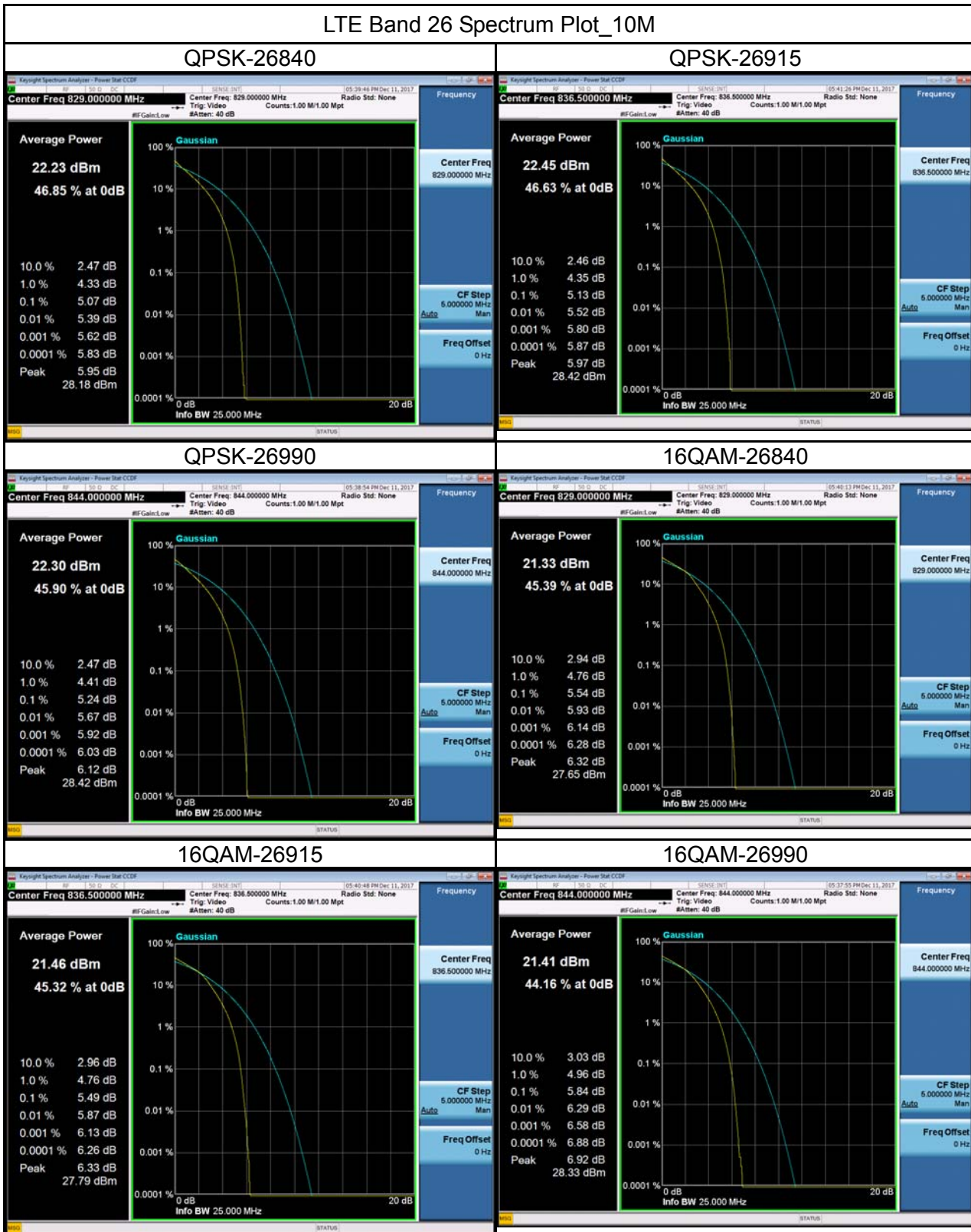


### LTE Band 26 Spectrum Plot\_5M





### LTE Band 26 Spectrum Plot\_10M



### LTE Band 26 Spectrum Plot\_15M



## APPENDIX G - FREQUENCY STABILITY

Test Mode:	GSM850_CH128
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.21	0.006321281	2.5
-20	7.48	0.009075467	2.5
-10	3.13	0.003797622	2.5
0	6.16	0.007473914	2.5
10	4.15	0.005035186	2.5
20	2.21	0.002681388	2.5
30	3.58	0.004343606	2.5
40	7.13	0.008650813	2.5
50	5.22	0.006333414	2.5
Max. Deviation (ppm)	<b>7.48</b>	<b>0.009075467</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.99	0.00362776	2.5
3.82V	5.32	0.006454744	2.5
4.40V	3.58	0.004343606	2.5
Max. Deviation (ppm)	<b>5.32</b>	<b>0.006454744</b>	2.5

Test Mode:	WCDMA Band V_CH4182
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.85	0.008189861	2.5
-20	4.12	0.004925873	2.5
-10	8.02	0.009588714	2.5
0	7.56	0.009038737	2.5
10	2.14	0.002558584	2.5
20	6.85	0.008189861	2.5
30	5.48	0.006551889	2.5
40	3.69	0.004411765	2.5
50	2.18	0.002606408	2.5
Max. Deviation (ppm)	<b>8.02</b>	<b>0.009588714</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	6.65	0.007950741	2.5
3.82V	3.48	0.004160689	2.5
4.40V	5.18	0.006193209	2.5
Max. Deviation (ppm)	<b>6.65</b>	<b>0.007950741</b>	2.5

Test Mode:	LTE Band 5_CH20525_1.4M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.61	0.003120143	2.5
-20	-3.71	0.004435146	2.5
-10	-3.08	0.003682008	2.5
0	2.96	0.003538553	2.5
10	6.52	0.007794381	2.5
20	-7.05	0.008427974	2.5
30	6.43	0.00768679	2.5
40	2.21	0.002641961	2.5
50	-8.01	0.009575613	2.5
Max. Deviation (ppm)	<b>8.01</b>	<b>0.009575613</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	6.01	0.007184698	2.5
3.82V	5.38	0.00643156	2.5
4.40V	-2.29	0.002737597	2.5
Max. Deviation (ppm)	<b>6.01</b>	<b>0.007184698</b>	2.5

Test Mode:	LTE Band 5_CH20525_3M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.98	0.002367005	2.5
-20	6.73	0.008045427	2.5
-10	-2.56	0.003060371	2.5
0	6.15	0.007352062	2.5
10	-4.78	0.005714286	2.5
20	-3.46	0.004136282	2.5
30	2.29	0.002737597	2.5
40	-4.07	0.004865511	2.5
50	5.63	0.006730424	2.5
Max. Deviation (ppm)	<b>6.73</b>	<b>0.008045427</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	-3.17	0.0037896	2.5
3.82V	-6.22	0.007435744	2.5
4.40V	-4.95	0.005917513	2.5
Max. Deviation (ppm)	<b>6.22</b>	<b>0.007435744</b>	2.5

Test Mode:	LTE Band 5_CH20525_5M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	5.35	0.006395696	2.5
-20	6.32	0.00755529	2.5
-10	-3.58	0.004279737	2.5
0	6.12	0.007316198	2.5
10	-4.35	0.005200239	2.5
20	3.21	0.003837418	2.5
30	5.35	0.006395696	2.5
40	4.38	0.005236103	2.5
50	-5.21	0.006228332	2.5
Max. Deviation (ppm)	<b>6.32</b>	<b>0.00755529</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.25	0.002689779	2.5
3.82V	-3.08	0.003682008	2.5
4.40V	3.26	0.003897191	2.5
Max. Deviation (ppm)	<b>3.26</b>	<b>0.003897191</b>	2.5



Test Mode:	LTE Band 5_CH20525_10M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.35	0.002809325	2.5
-20	-3.68	0.004399283	2.5
-10	5.35	0.006395696	2.5
0	6.35	0.007591154	2.5
10	-5.32	0.006359833	2.5
20	4.68	0.00559474	2.5
30	6.35	0.007591154	2.5
40	-3.58	0.004279737	2.5
50	5.35	0.006395696	2.5
Max. Deviation (ppm)	<b>6.35</b>	<b>0.007591154</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	3.81	0.004554692	2.5
3.82V	6.30	0.007531381	2.5
4.40V	5.19	0.006204423	2.5
Max. Deviation (ppm)	<b>6.30</b>	<b>0.007531381</b>	2.5

Test Mode:	LTE Band 26_CH26915_1.4M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.13	0.007328153	2.5
-20	-5.24	0.006264196	2.5
-10	1.95	0.002331142	2.5
0	-2.67	0.003191871	2.5
10	-3.06	0.003658099	2.5
20	5.28	0.006312014	2.5
30	6.37	0.007615063	2.5
40	2.21	0.002641961	2.5
50	6.49	0.007758518	2.5
Max. Deviation (ppm)	<b>6.49</b>	<b>0.007758518</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.39	0.002857143	2.5
3.82V	-3.17	0.0037896	2.5
4.40V	-2.58	0.00308428	2.5
Max. Deviation (ppm)	<b>3.17</b>	<b>0.0037896</b>	2.5

Test Mode:	LTE Band 26_CH26915_3M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.31	0.002761506	2.5
-20	-1.67	0.001996414	2.5
-10	5.29	0.006323969	2.5
0	6.87	0.008212791	2.5
10	-1.28	0.001530185	2.5
20	-5.13	0.006132696	2.5
30	-6.34	0.007579199	2.5
40	4.69	0.005606695	2.5
50	7.61	0.00909743	2.5
Max. Deviation (ppm)	<b>7.61</b>	<b>0.00909743</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	2.95	0.003526599	2.5
3.82V	-3.67	0.004387328	2.5
4.40V	3.72	0.004447101	2.5
Max. Deviation (ppm)	<b>3.72</b>	<b>0.004447101</b>	2.5

Test Mode:	LTE Band 26_CH26915_5M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	7.35	0.008786611	2.5
-20	5.28	0.006312014	2.5
-10	-3.84	0.004590556	2.5
0	6.29	0.007519426	2.5
10	4.33	0.00517633	2.5
20	-5.06	0.006049014	2.5
30	7.19	0.008595338	2.5
40	-4.98	0.005953377	2.5
50	3.17	0.0037896	2.5
Max. Deviation (ppm)	<b>7.35</b>	<b>0.008786611</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	-2.61	0.003120143	2.5
3.82V	3.87	0.00462642	2.5
4.40V	-1.21	0.001446503	2.5
Max. Deviation (ppm)	<b>3.87</b>	<b>0.00462642</b>	2.5

Test Mode:	LTE Band 26_CH26915_10M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.68	0.004396892	2.5
-20	-5.31	0.006347878	2.5
-10	6.69	0.007997609	2.5
0	4.17	0.004985057	2.5
10	-5.29	0.006323969	2.5
20	-3.35	0.004004782	2.5
30	5.61	0.006706515	2.5
40	1.88	0.00224746	2.5
50	2.91	0.003478781	2.5
Max. Deviation (ppm)	<b>6.69</b>	<b>0.007997609</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	3.08	0.003682008	2.5
3.82V	-1.34	0.001601913	2.5
4.40V	-3.69	0.004411237	2.5
Max. Deviation (ppm)	3.69	<b>0.004411237</b>	2.5

Test Mode:	LTE Band 26_CH26915_15M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.68	0.004399283	2.5
-20	4.21	0.005032875	2.5
-10	-2.17	0.002594142	2.5
0	3.86	0.004614465	2.5
10	7.54	0.009013748	2.5
20	4.31	0.005152421	2.5
30	-4.88	0.005833831	2.5
40	6.37	0.007615063	2.5
50	2.19	0.002618051	2.5
Max. Deviation (ppm)	<b>7.54</b>	<b>0.009013748</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.50V	1.57	0.001876868	2.5
3.82V	3.61	0.004315601	2.5
4.40V	-2.14	0.002558279	2.5
Max. Deviation (ppm)	<b>3.61</b>	<b>0.004315601</b>	2.5