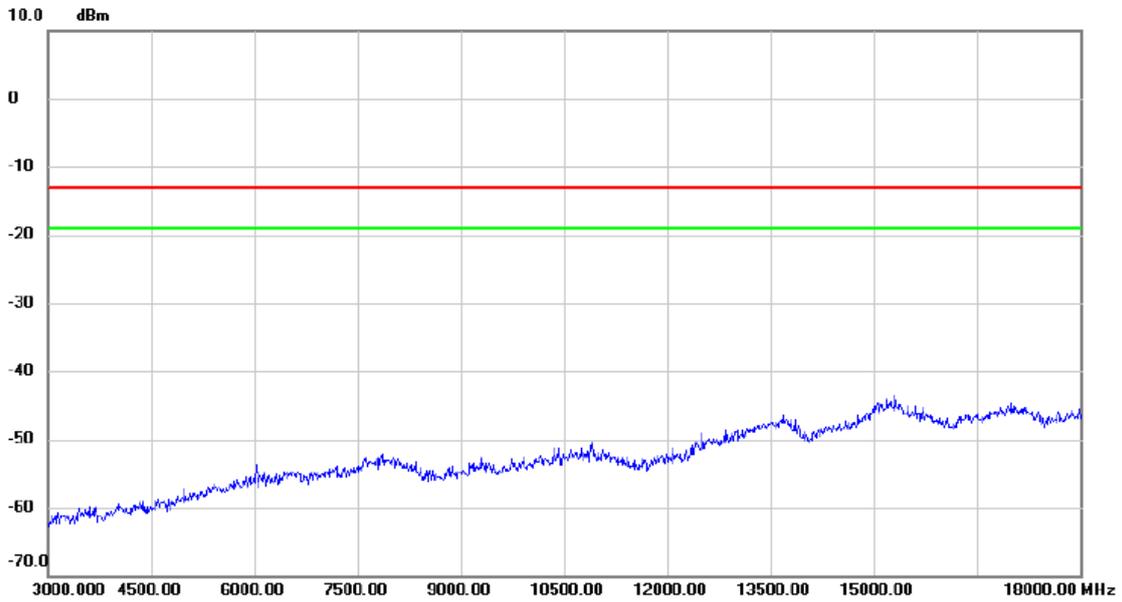


Test Mode: WCDMA Band 4\_TX CH1312\_HSUPA

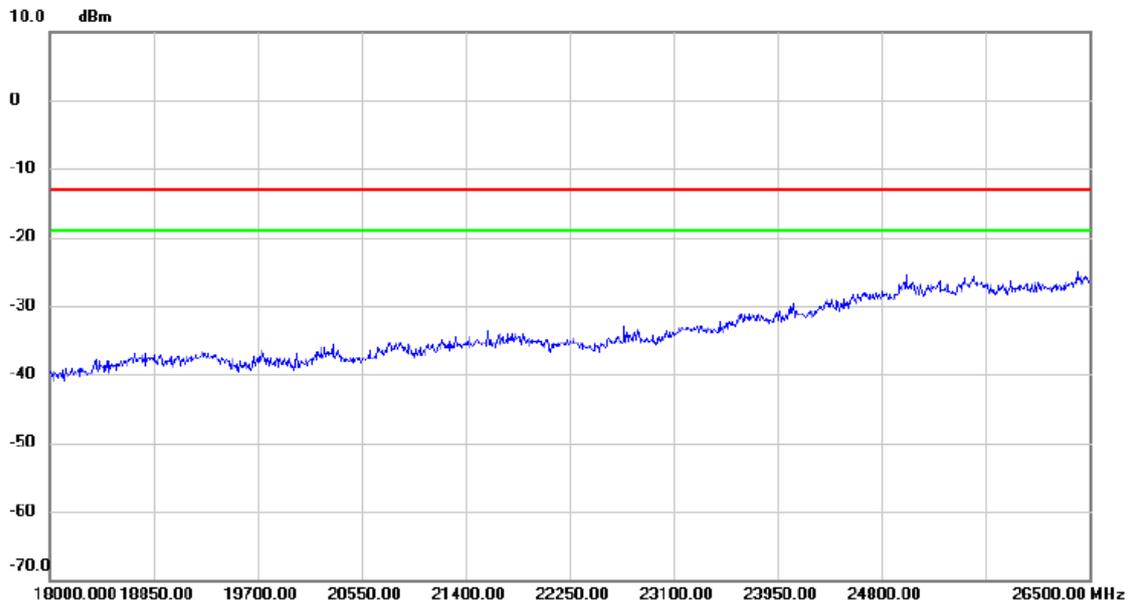
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

Test Mode: WCDMA Band 4\_TX CH1312\_HSUPA

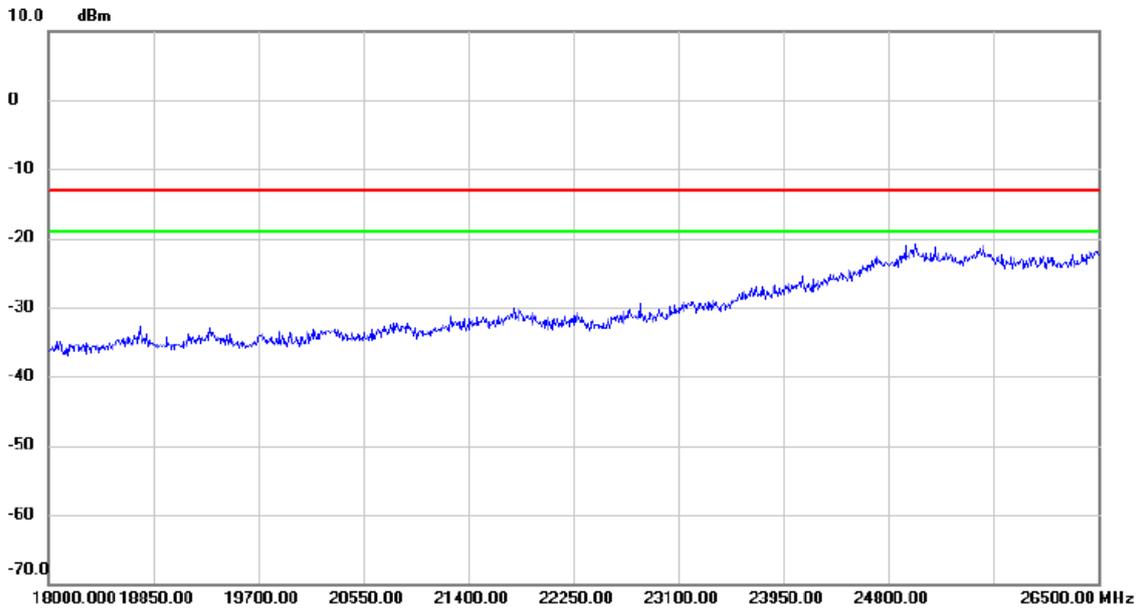
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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Test Mode: WCDMA Band 4\_TX CH1312\_HSUPA

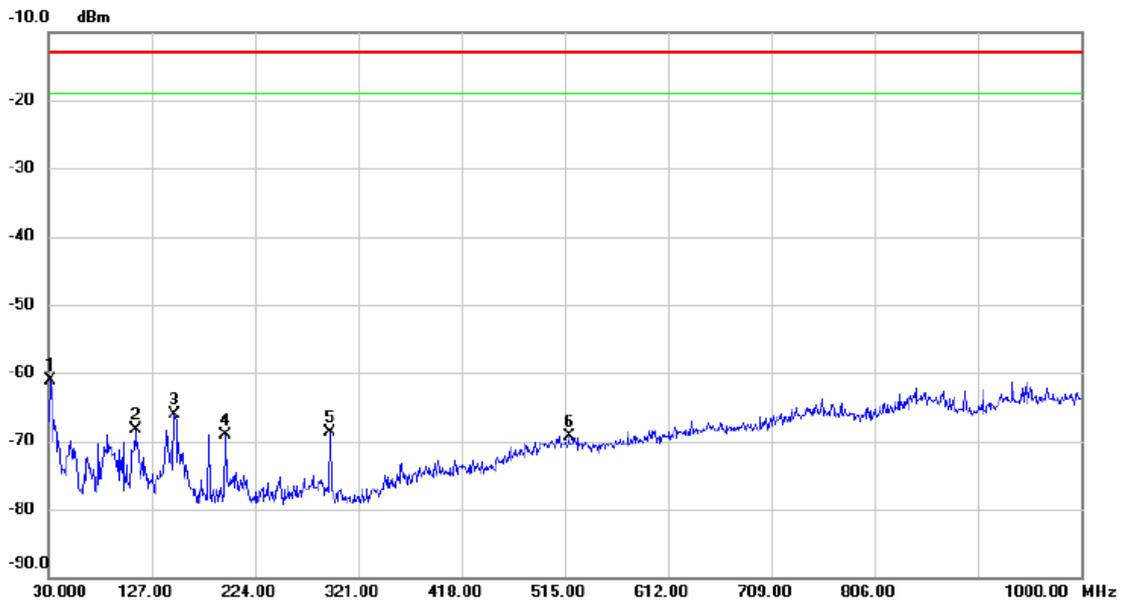
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

Test Mode: LTE Band 4\_TX CH20375\_5M

**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	31.940	-57.54	-3.65	-61.19	-13.00	-48.19	peak	
2		111.480	-65.91	-2.36	-68.27	-13.00	-55.27	peak	
3		148.340	-66.10	0.02	-66.08	-13.00	-53.08	peak	
4		195.870	-65.74	-3.40	-69.14	-13.00	-56.14	peak	
5		294.810	-67.54	-1.16	-68.70	-13.00	-55.70	peak	
6		518.880	-73.95	4.62	-69.33	-13.00	-56.33	peak	

Test Mode: LTE Band 4\_TX CH20375\_5M

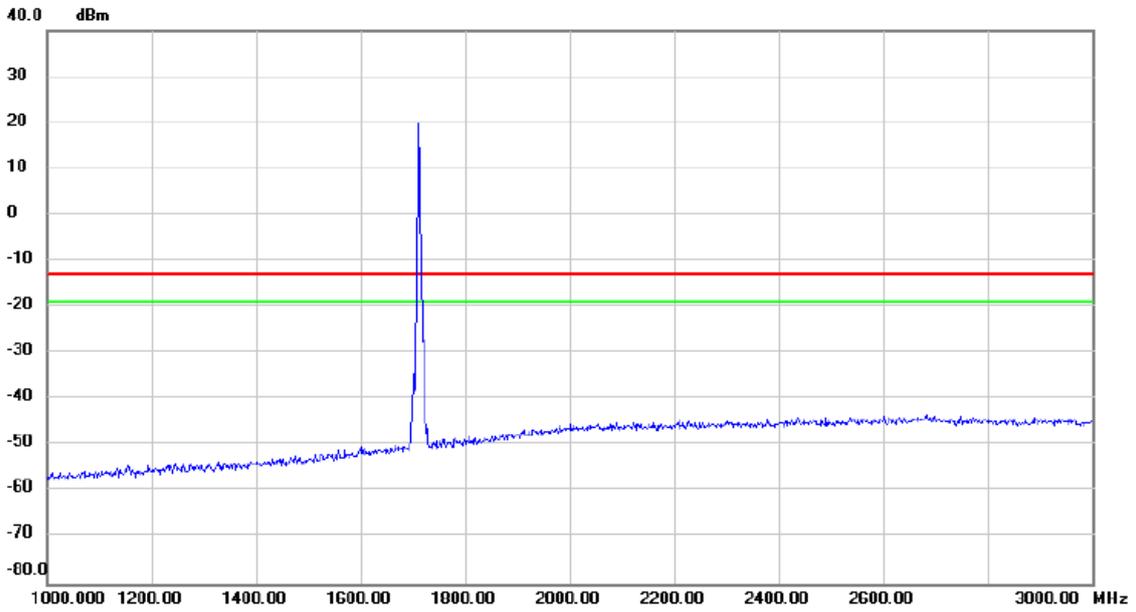
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		31.940	-65.11	-3.65	-68.76	-13.00	-55.76	peak	
2		150.280	-69.70	-0.04	-69.74	-13.00	-56.74	peak	
3		230.790	-67.14	-3.87	-71.01	-13.00	-58.01	peak	
4		398.600	-73.24	3.28	-69.96	-13.00	-56.96	peak	
5		501.420	-73.41	4.54	-68.87	-13.00	-55.87	peak	
6	*	736.160	-71.75	8.23	-63.52	-13.00	-50.52	peak	

Test Mode: LTE Band 4\_TX CH20375\_5M

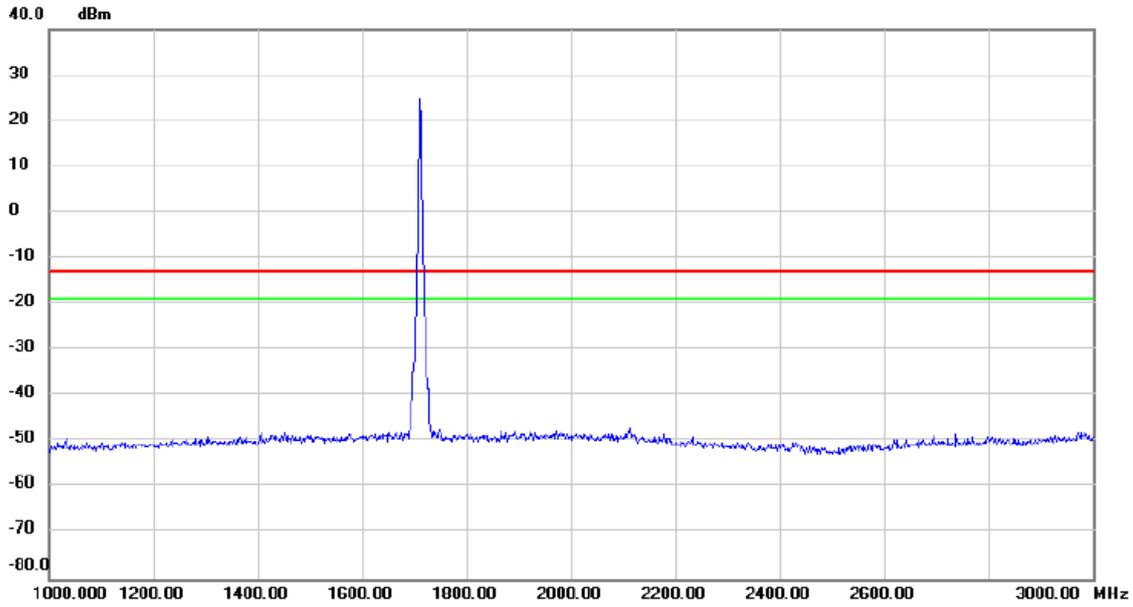
**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1750.00	20.00	0.00	20.00	-15.00	35.00		

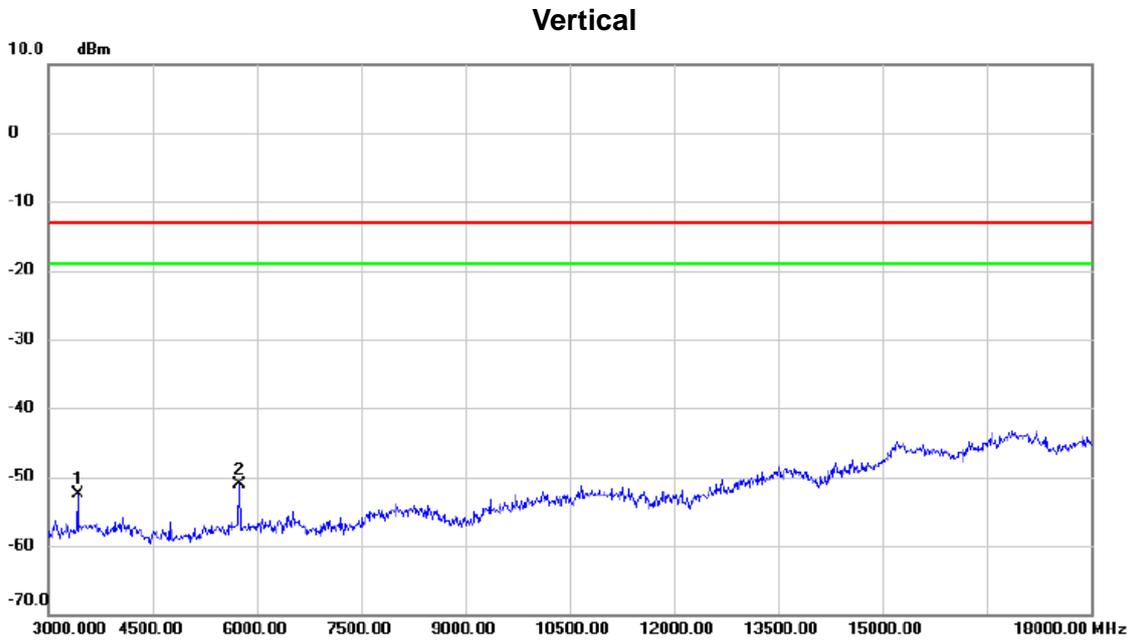
Test Mode: LTE Band 4\_TX CH20375\_5M

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1750.00	25.00	0.00	25.00	-15.00	40.00		

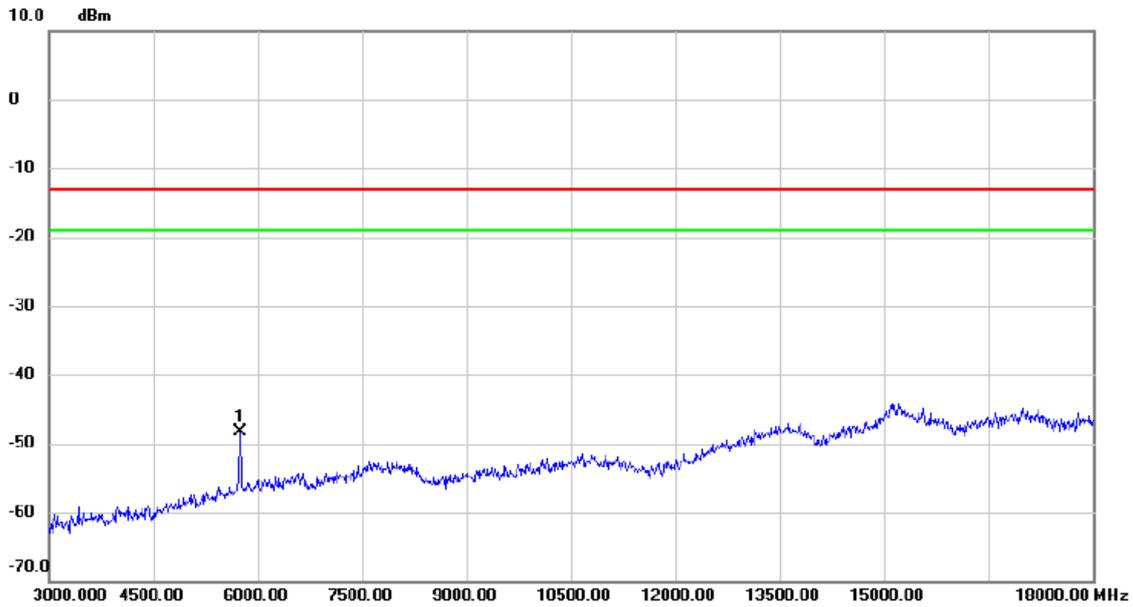
Test Mode: LTE Band 4\_TX CH20375\_5M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3420.000	-48.76	-3.77	-52.53	-13.00	-39.53	peak	
2	*	5745.000	-55.62	4.59	-51.03	-13.00	-38.03	peak	

Test Mode: LTE Band 4\_TX CH20375\_5M

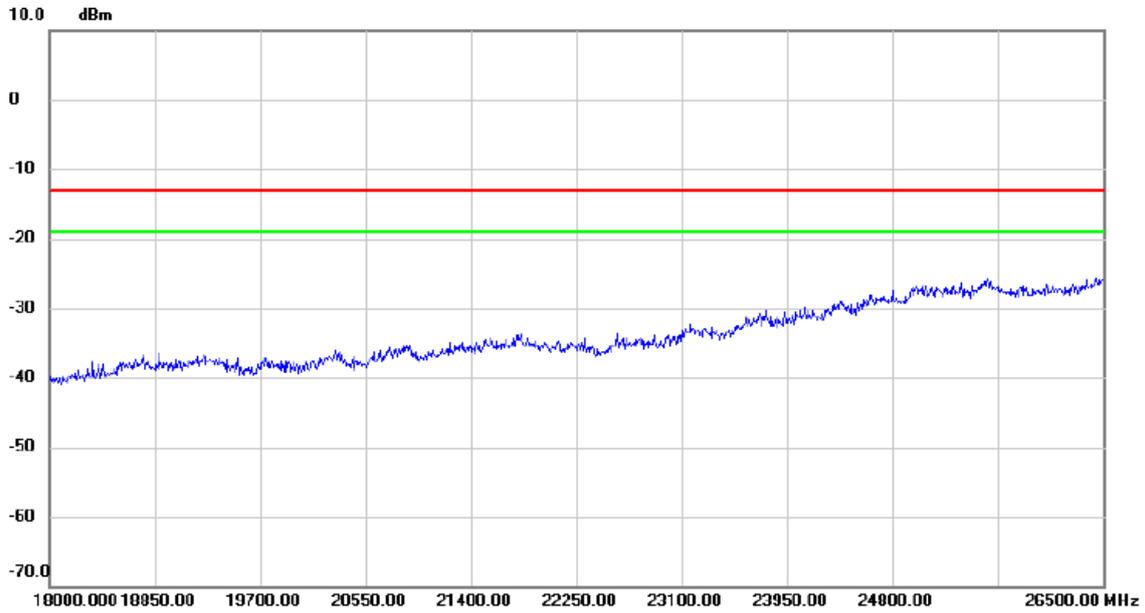
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	5745.000	-52.98	4.59	-48.39	-13.00	-35.39	peak	

Test Mode: LTE Band 4\_TX CH20375\_5M

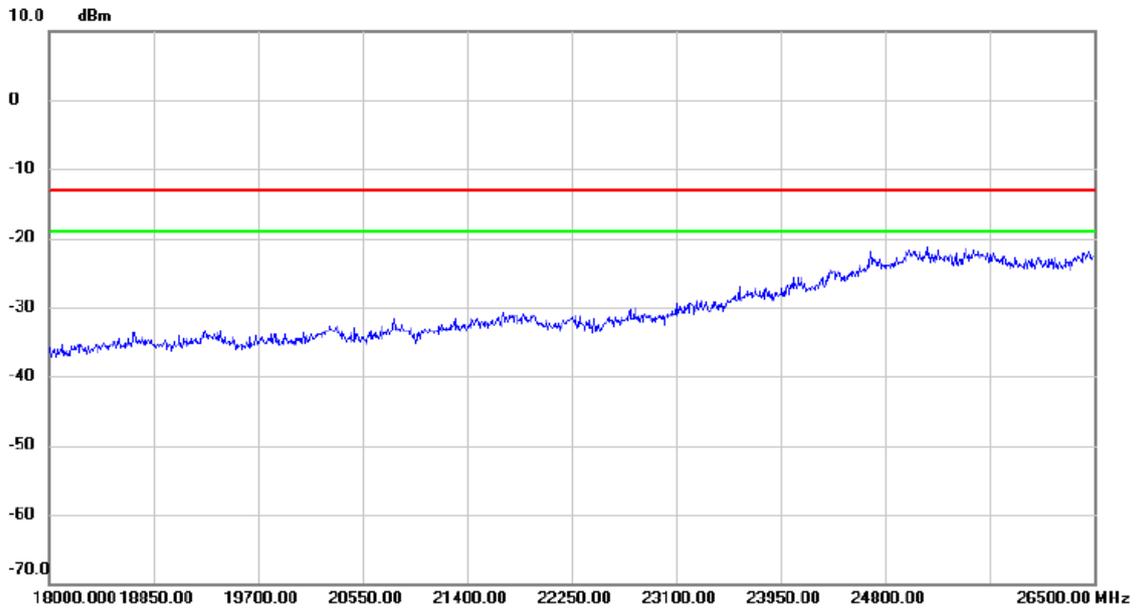
**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

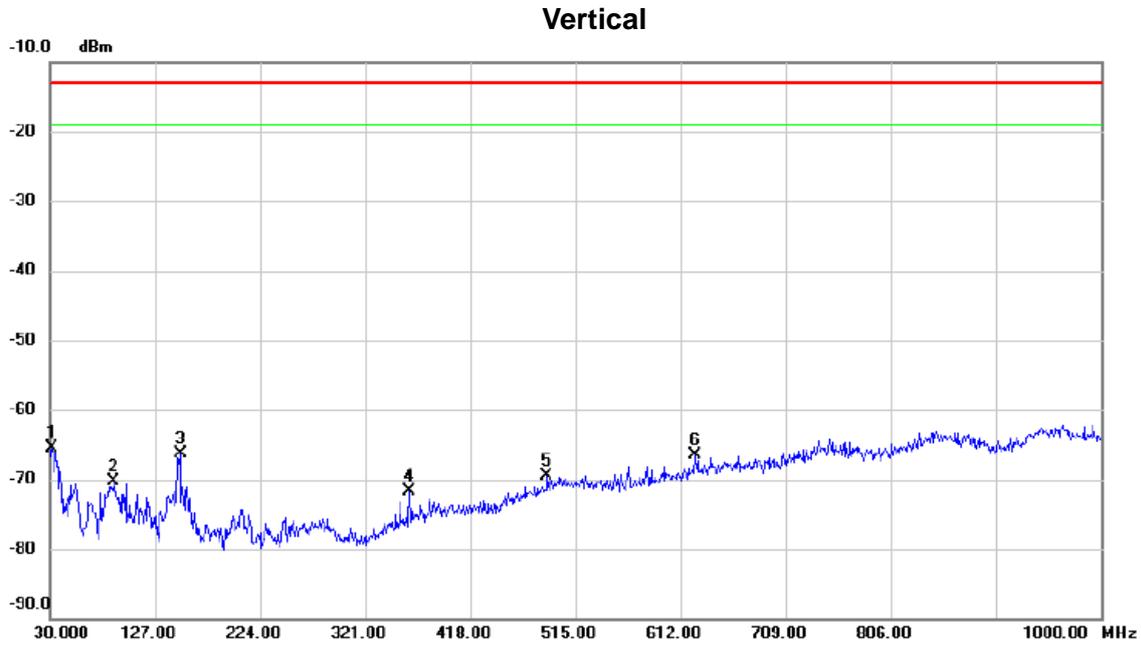
Test Mode: LTE Band 4\_TX CH20375\_5M

**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

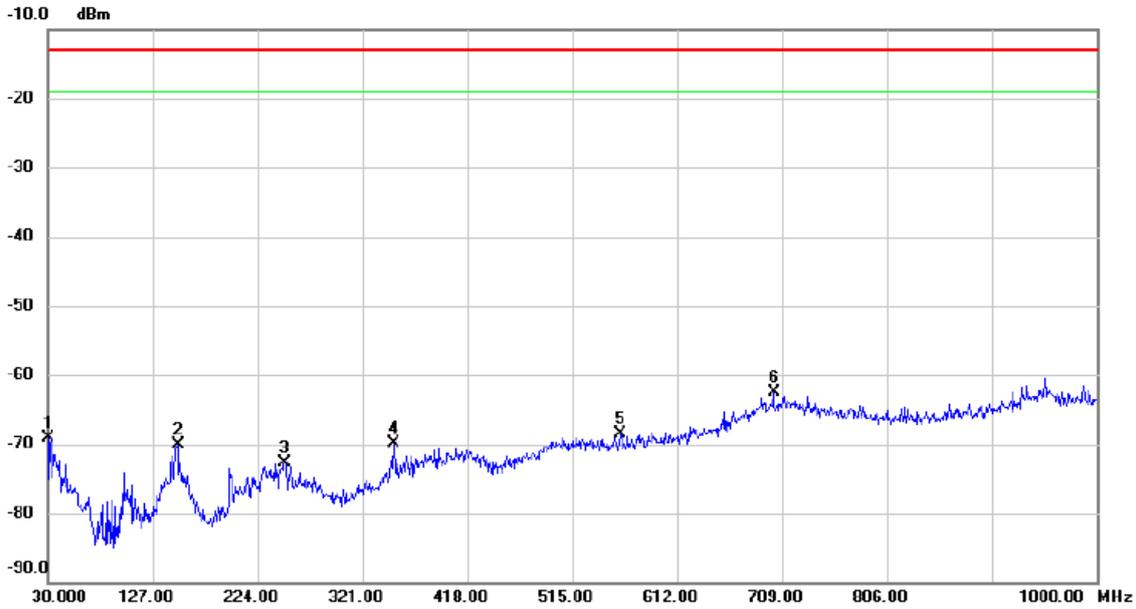
Test Mode: LTE Band 4\_TX CH20300\_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	31.940	-61.92	-3.65	-65.57	-13.00	-52.57	peak	
2		89.170	-68.32	-1.90	-70.22	-13.00	-57.22	peak	
3		150.280	-66.20	-0.04	-66.24	-13.00	-53.24	peak	
4		361.740	-73.25	1.48	-71.77	-13.00	-58.77	peak	
5		488.810	-74.00	4.41	-69.59	-13.00	-56.59	peak	
6		625.580	-72.97	6.42	-66.55	-13.00	-53.55	peak	

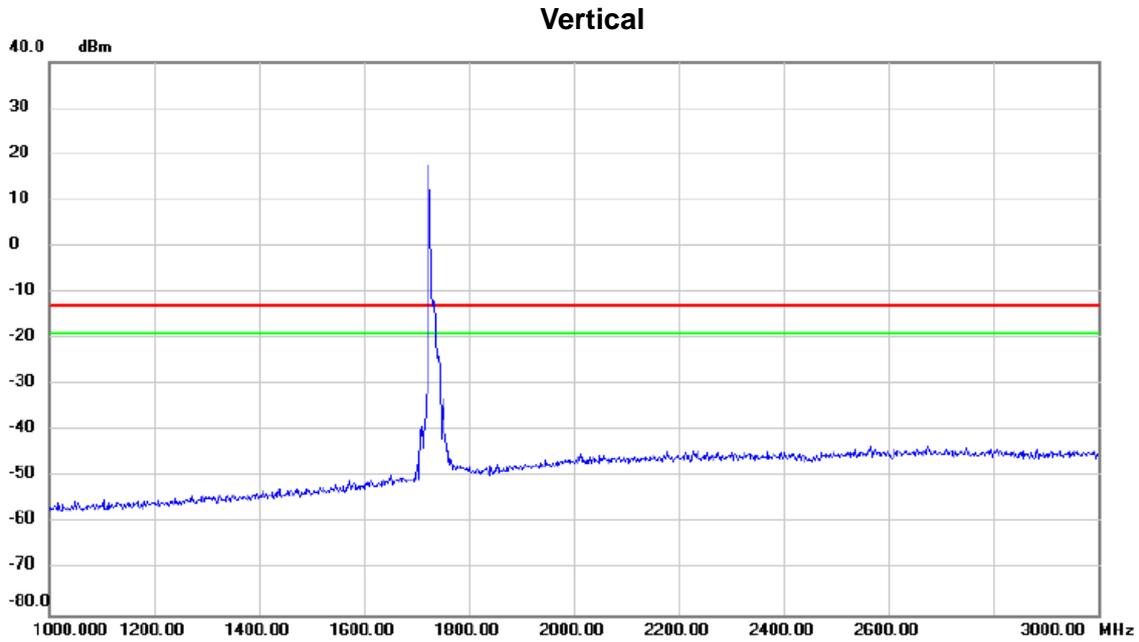
Test Mode: LTE Band 4\_TX CH20300\_20M

### Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	30.000	-67.24	-1.89	-69.13	-13.00	-56.13	peak	
2	150.280	-70.02	-0.04	-70.06	-13.00	-57.06	peak	
3	249.220	-69.91	-2.81	-72.72	-13.00	-59.72	peak	
4	350.100	-70.74	0.90	-69.84	-13.00	-56.84	peak	
5	559.620	-73.46	5.02	-68.44	-13.00	-55.44	peak	
6 *	701.240	-70.02	7.46	-62.56	-13.00	-49.56	peak	

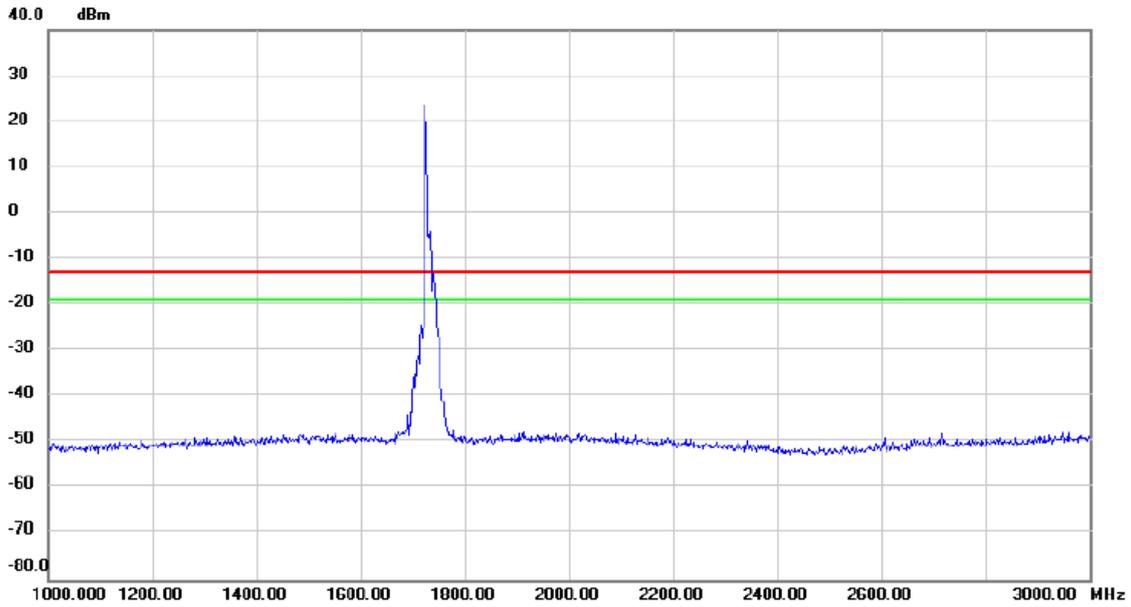
Test Mode: LTE Band 4\_TX CH20300\_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
		1750.00	18.00	0.00	18.00	-15.00	3.00		

Test Mode: LTE Band 4\_TX CH20300\_20M

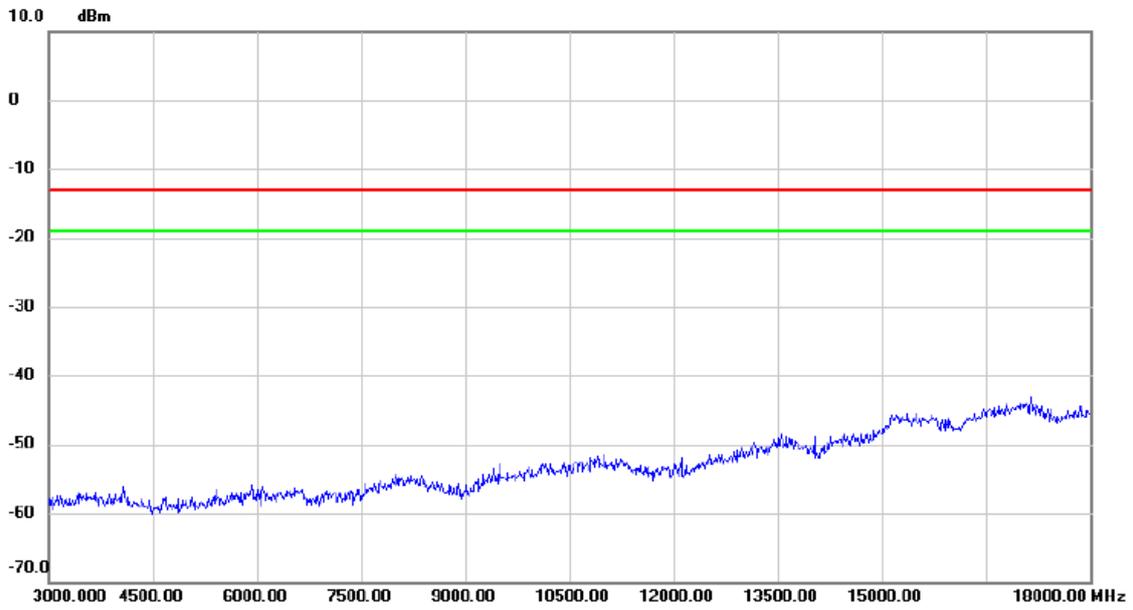
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1750.000	25.0	0.0	25.0	-15.0	40.0		

Test Mode: LTE Band 4\_TX CH20300\_20M

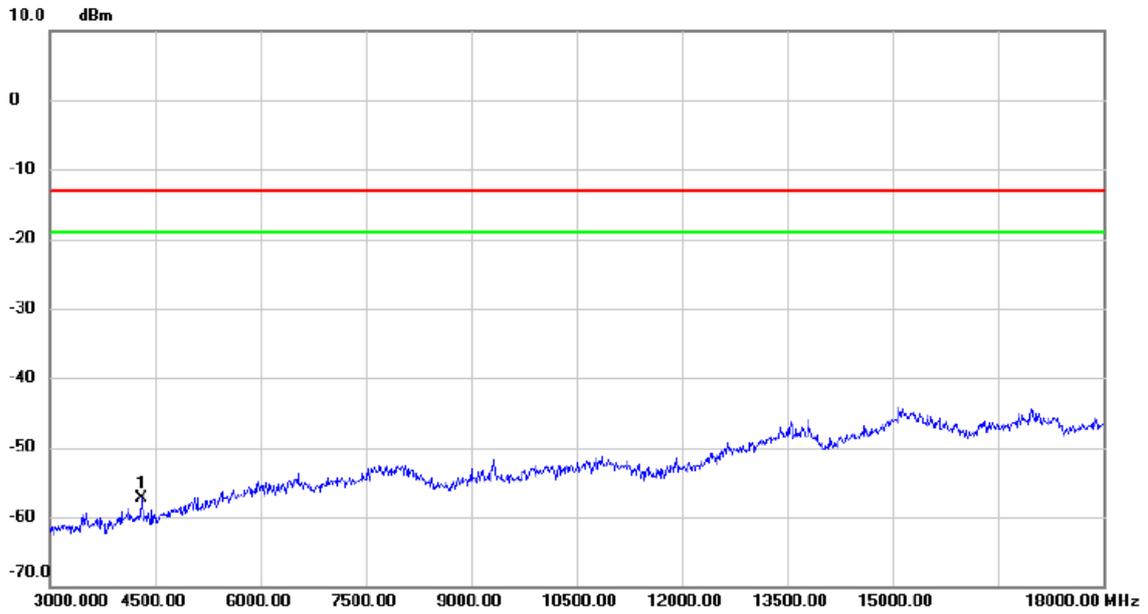
**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

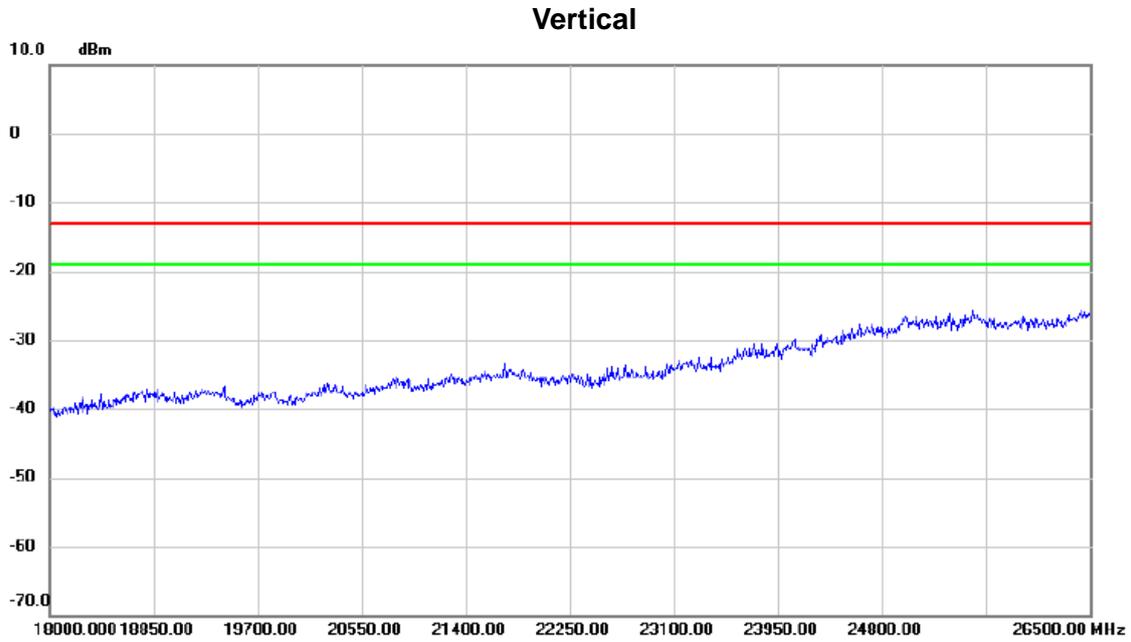
Test Mode: LTE Band 4\_TX CH20300\_20M

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	4305.000	-58.23	0.91	-57.32	-13.00	-44.32	peak	

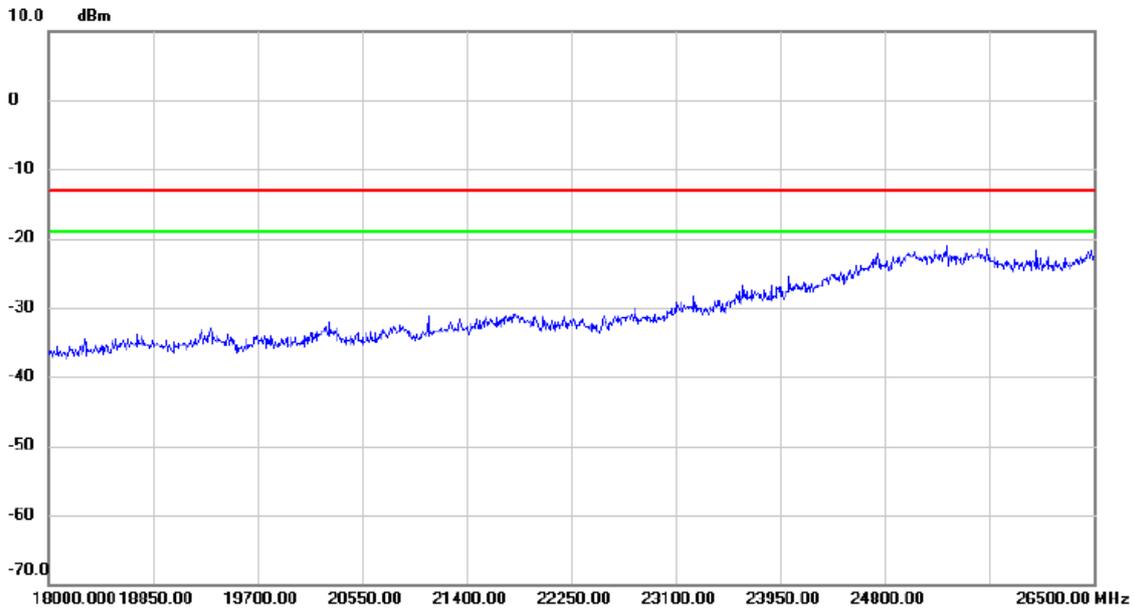
Test Mode: LTE Band 4\_TX CH20300\_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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Test Mode: LTE Band 4\_TX CH20300\_20M

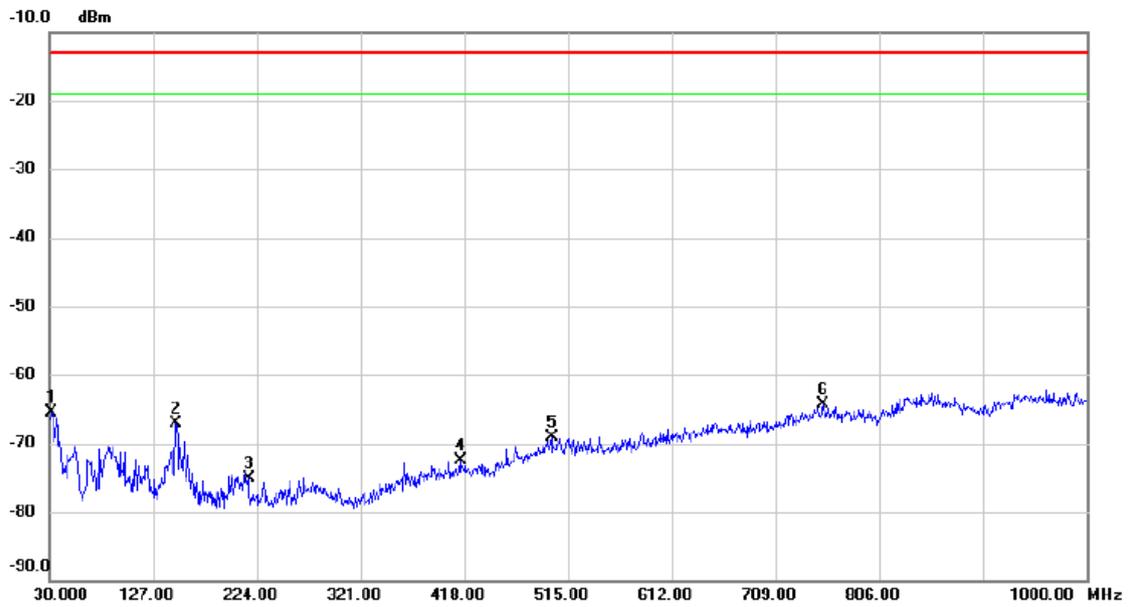
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

Test Mode: LTE Band 7\_TX CH20375\_5M

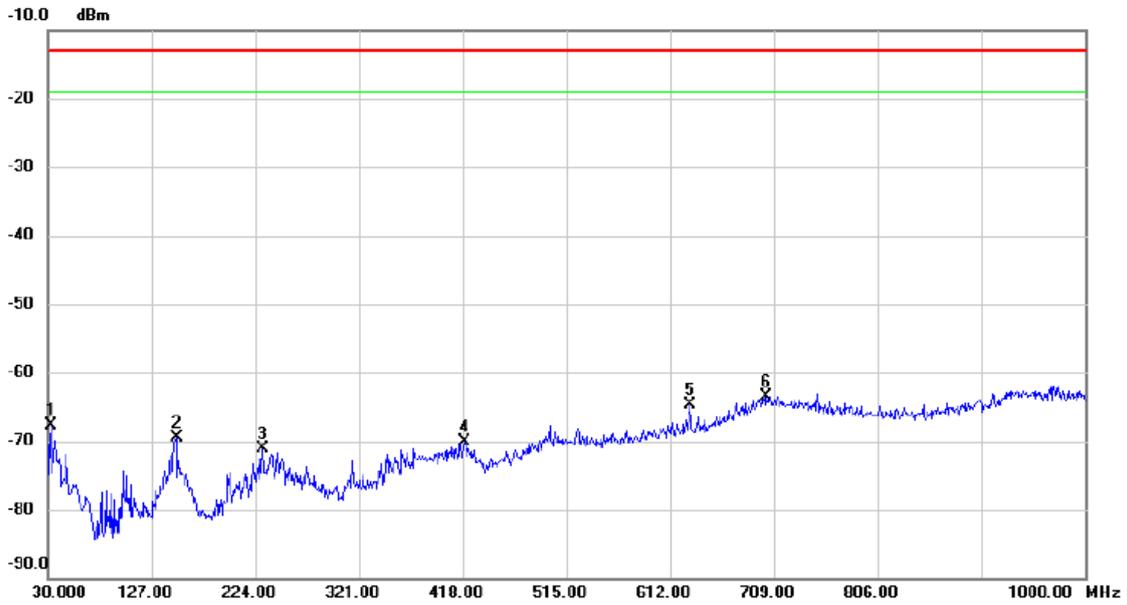
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		31.940	-61.89	-3.65	-65.54	-13.00	-52.54	peak	
2		148.340	-67.06	0.02	-67.04	-13.00	-54.04	peak	
3		216.240	-70.14	-4.91	-75.05	-13.00	-62.05	peak	
4		414.120	-75.97	3.53	-72.44	-13.00	-59.44	peak	
5		499.480	-73.68	4.52	-69.16	-13.00	-56.16	peak	
6	*	753.620	-73.00	8.64	-64.36	-13.00	-51.36	peak	

Test Mode: LTE Band 7\_TX CH20375\_5M

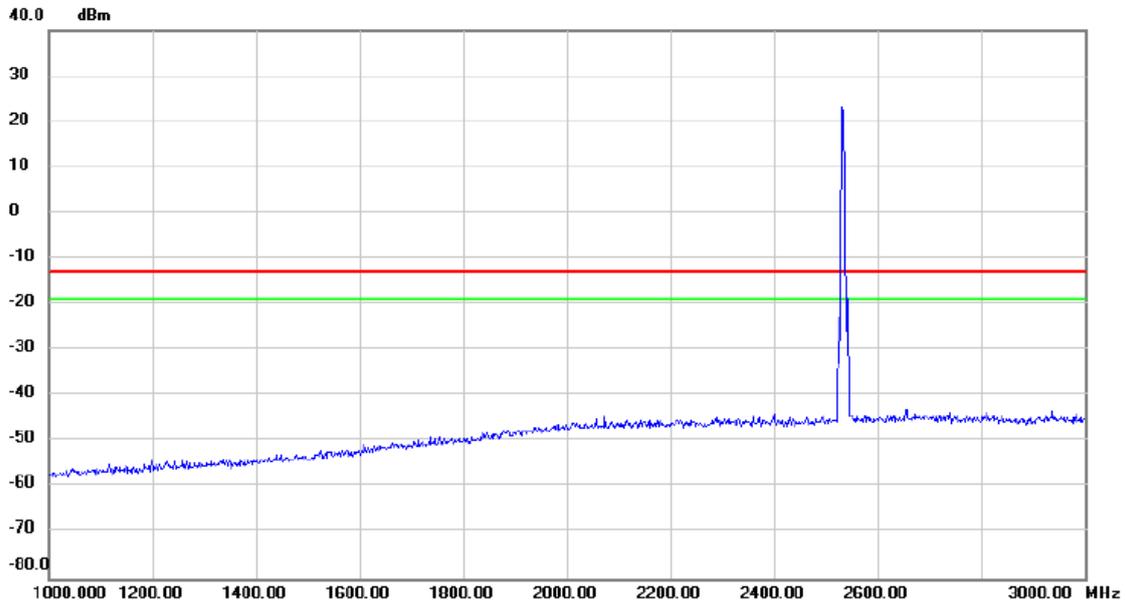
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		32.910	-63.09	-4.53	-67.62	-13.00	-54.62	peak	
2		150.280	-69.37	-0.04	-69.41	-13.00	-56.41	peak	
3		230.790	-67.18	-3.87	-71.05	-13.00	-58.05	peak	
4		419.940	-73.62	3.60	-70.02	-13.00	-57.02	peak	
5		630.430	-71.16	6.49	-64.67	-13.00	-51.67	peak	
6	*	702.210	-70.91	7.48	-63.43	-13.00	-50.43	peak	

Test Mode: LTE Band 7\_TX CH21425\_5M

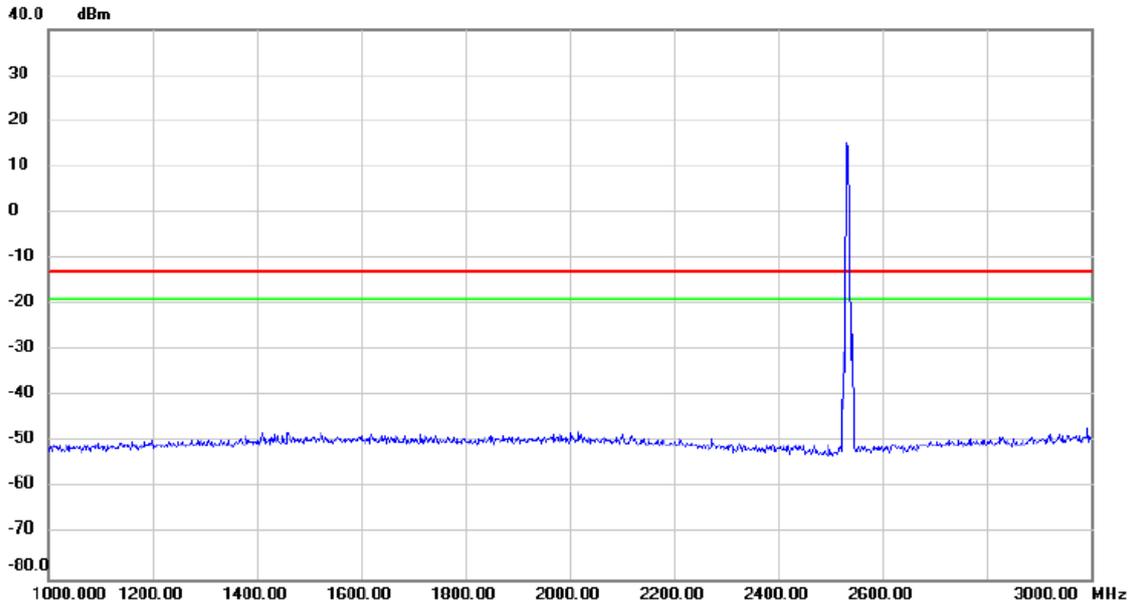
**Vertical**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		2500.000	25.0	0	25.0	-15.0	40.0		

Test Mode: LTE Band 7\_TX CH21425\_5M

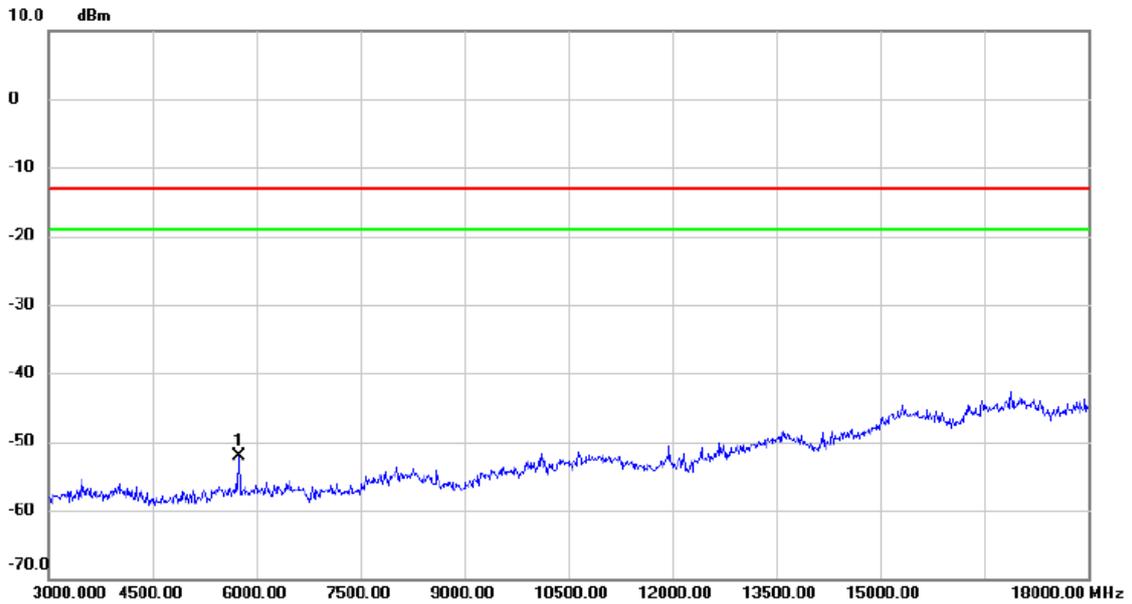
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		2500.00	15.00	0.00	15.00	-12.00	27.00		

Test Mode: LTE Band 7\_TX CH21425\_5M

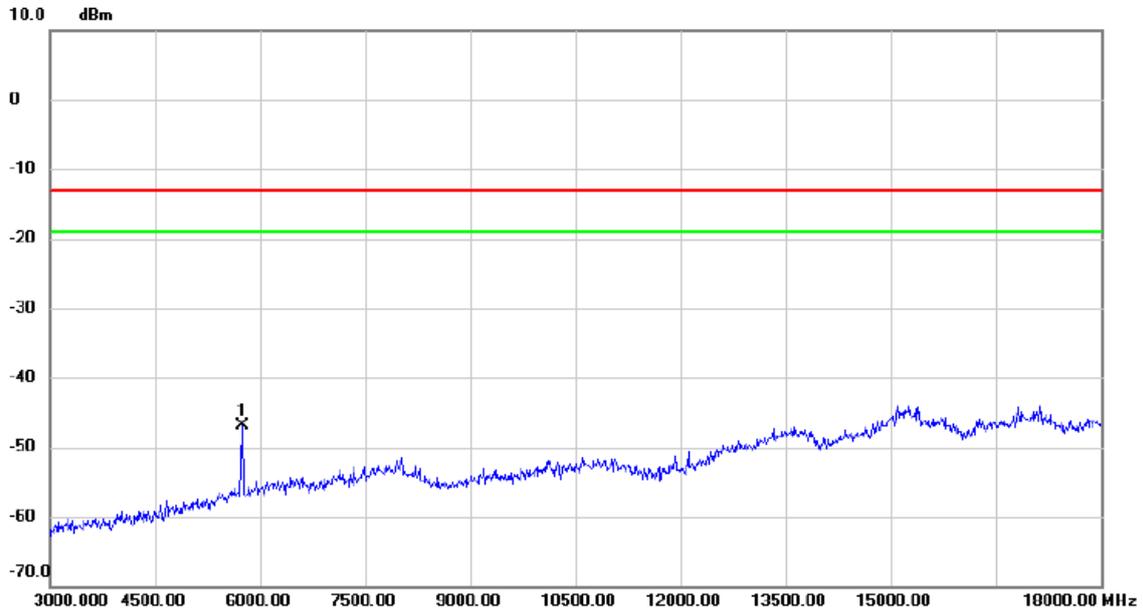
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	5745.000	-56.66	4.59	-52.07	-13.00	-39.07	peak	

Test Mode: LTE Band 7\_TX CH21425\_5M

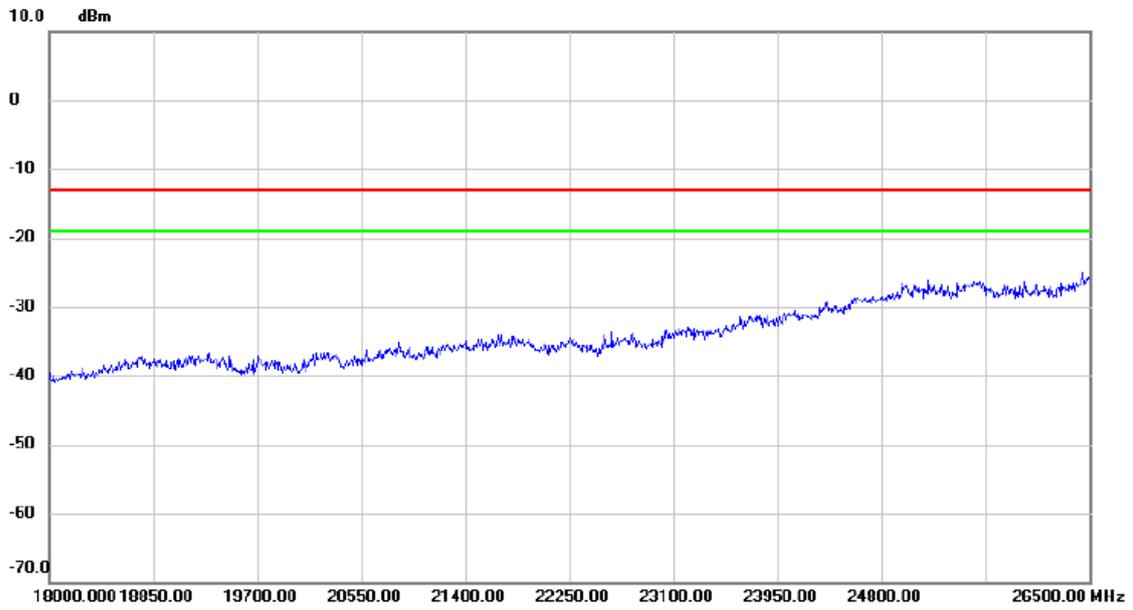
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	5745.000	-51.57	4.59	-46.98	-13.00	-33.98	peak	

Test Mode: LTE Band 7\_TX CH21425\_5M

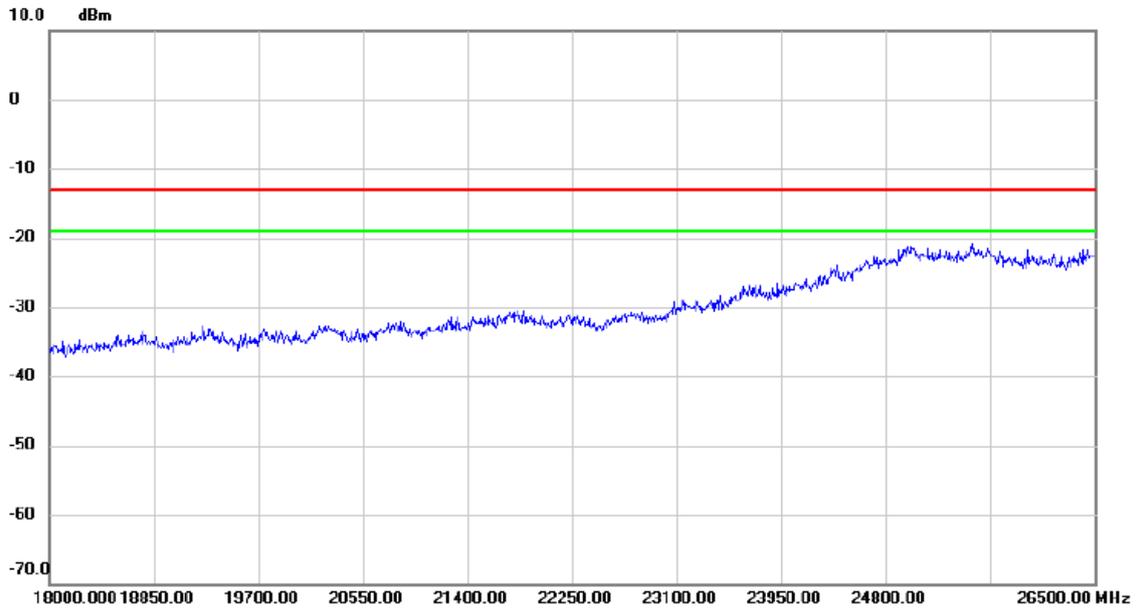
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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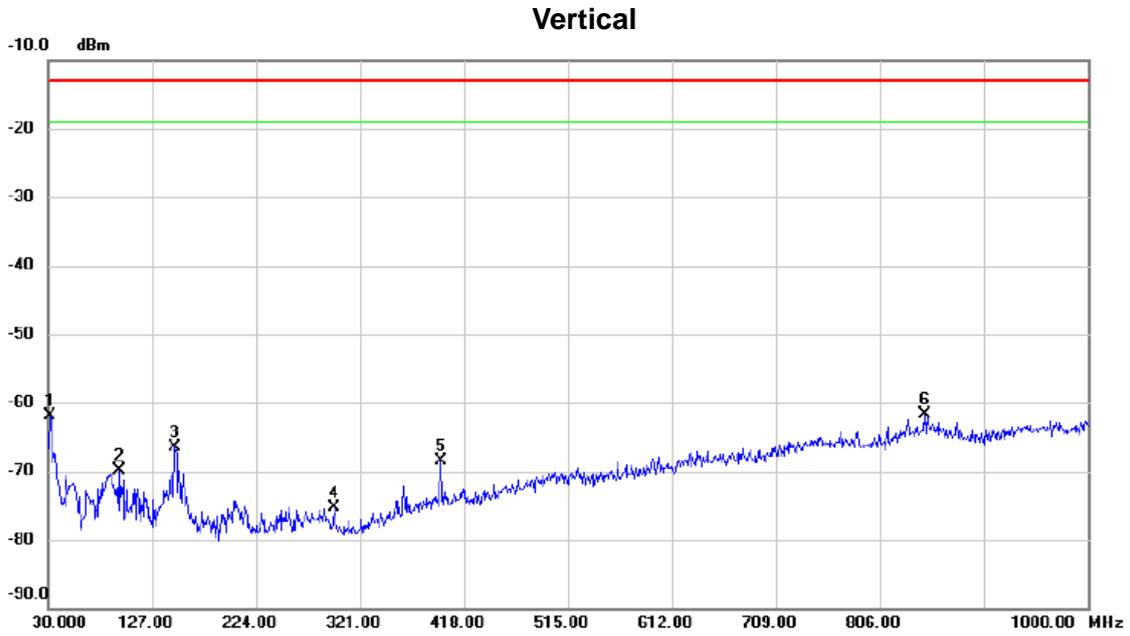
Test Mode: LTE Band 7\_TX CH21425\_5M

**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment

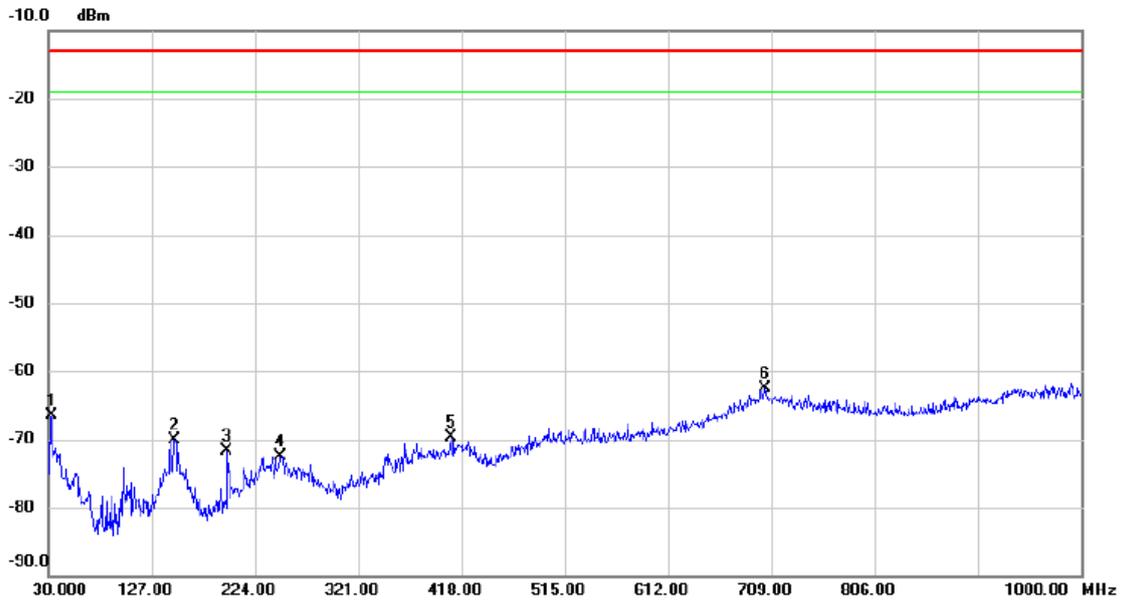
Test Mode: LTE Band 7\_TX CH21350\_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		31.940	-58.23	-3.65	-61.88	-13.00	-48.88	peak	
2		95.960	-67.37	-2.61	-69.98	-13.00	-56.98	peak	
3		148.340	-66.61	0.02	-66.59	-13.00	-53.59	peak	
4		296.750	-74.20	-1.13	-75.33	-13.00	-62.33	peak	
5		396.660	-71.63	3.19	-68.44	-13.00	-55.44	peak	
6	*	847.710	-72.37	10.65	-61.72	-13.00	-48.72	peak	

Test Mode: LTE Band 7\_TX CH21350\_20M

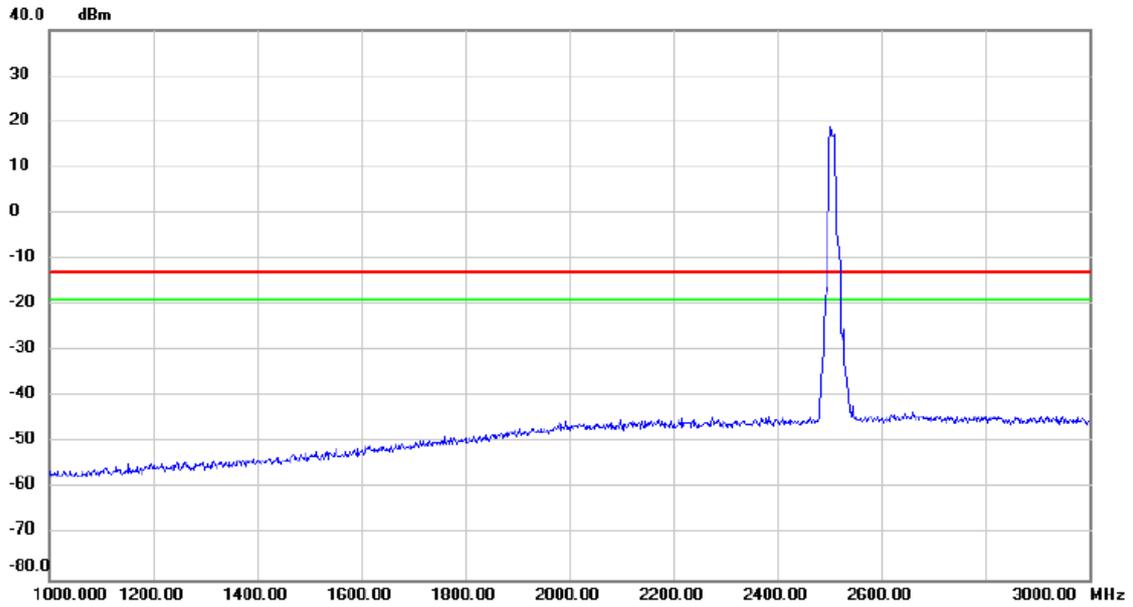
### Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		32.910	-61.95	-4.53	-66.48	-13.00	-53.48	peak	
2		148.340	-70.19	0.02	-70.17	-13.00	-57.17	peak	
3		197.810	-68.00	-3.77	-71.77	-13.00	-58.77	peak	
4		248.250	-69.54	-2.87	-72.41	-13.00	-59.41	peak	
5		408.300	-73.16	3.45	-69.71	-13.00	-56.71	peak	
6	*	703.180	-69.99	7.50	-62.49	-13.00	-49.49	peak	

Test Mode: LTE Band 7\_TX CH21350\_20M

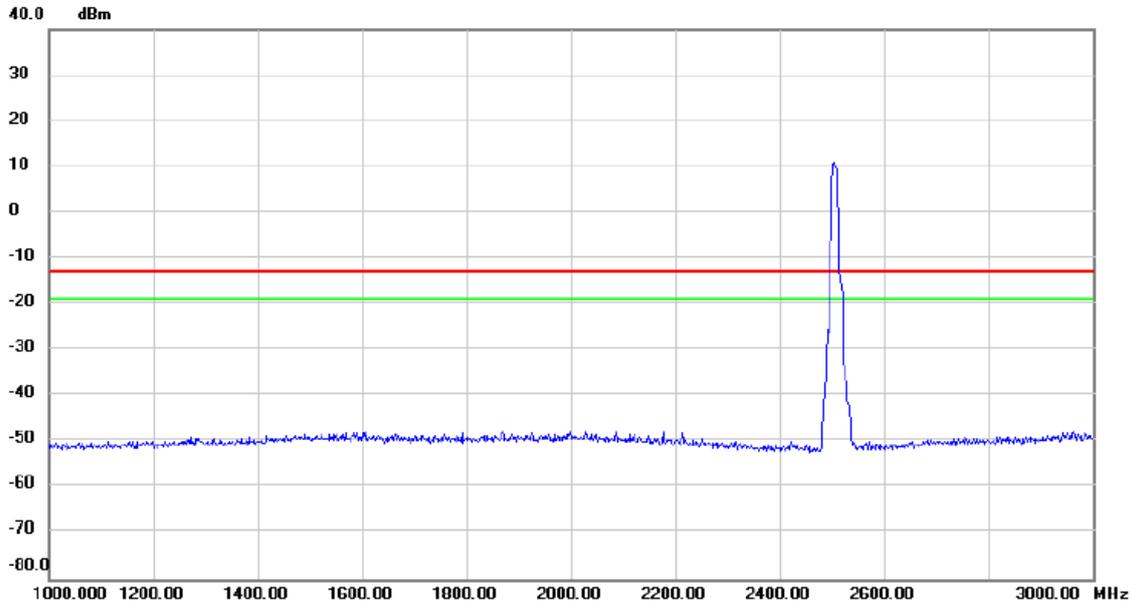
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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Test Mode: LTE Band 7\_TX CH21350\_20M

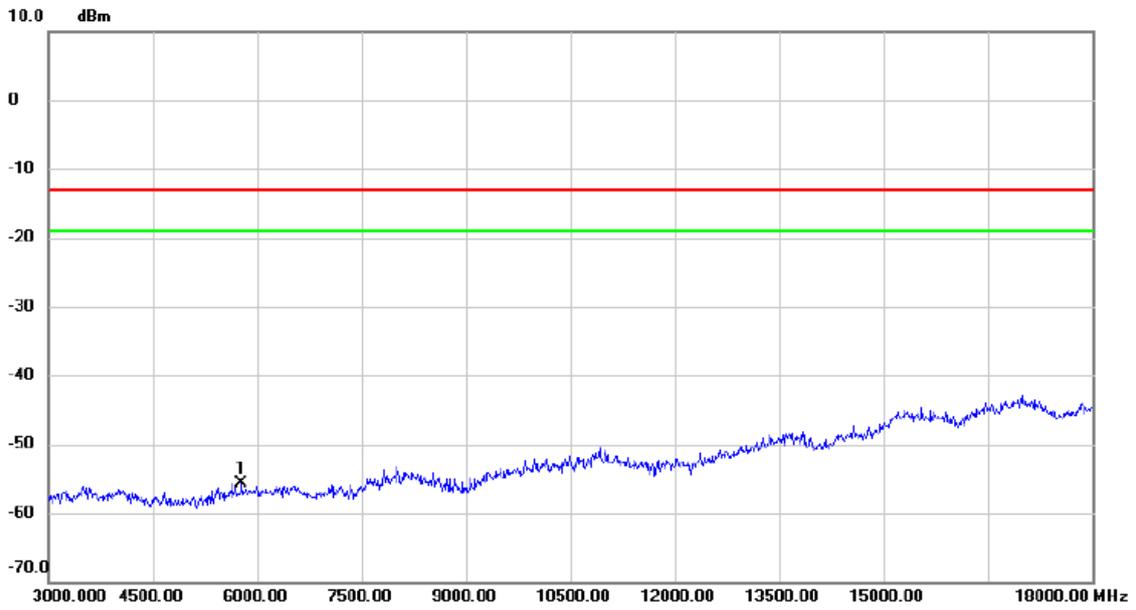
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		2500.00	10.00	0.00	10.00	-12.00	22.00		

Test Mode: LTE Band 7\_TX CH21350\_20M

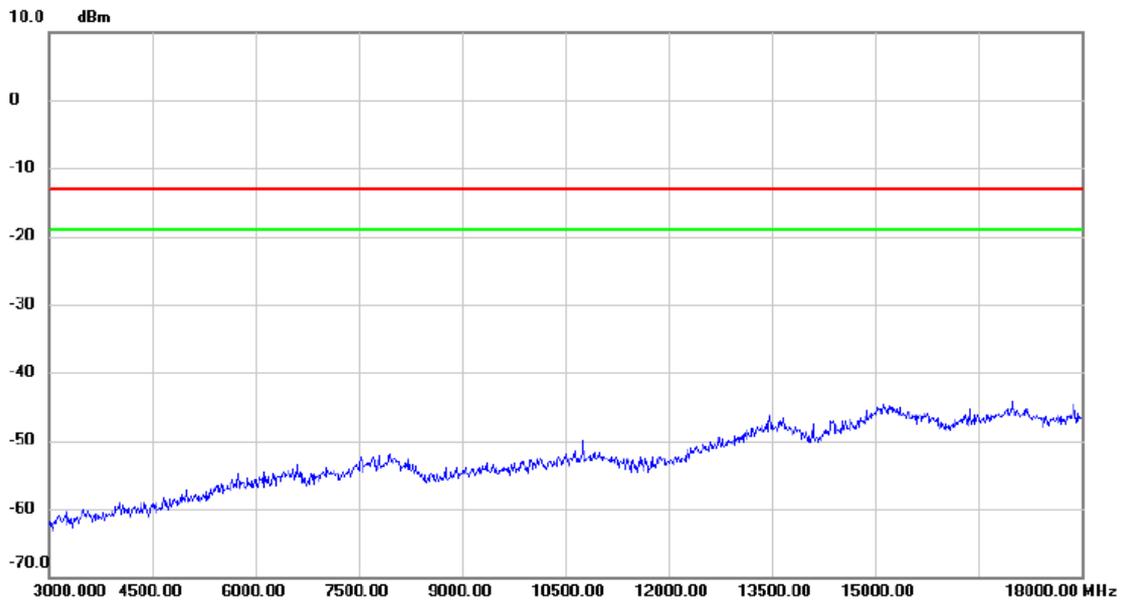
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	5775.000	-60.35	4.68	-55.67	-13.00	-42.67	peak	

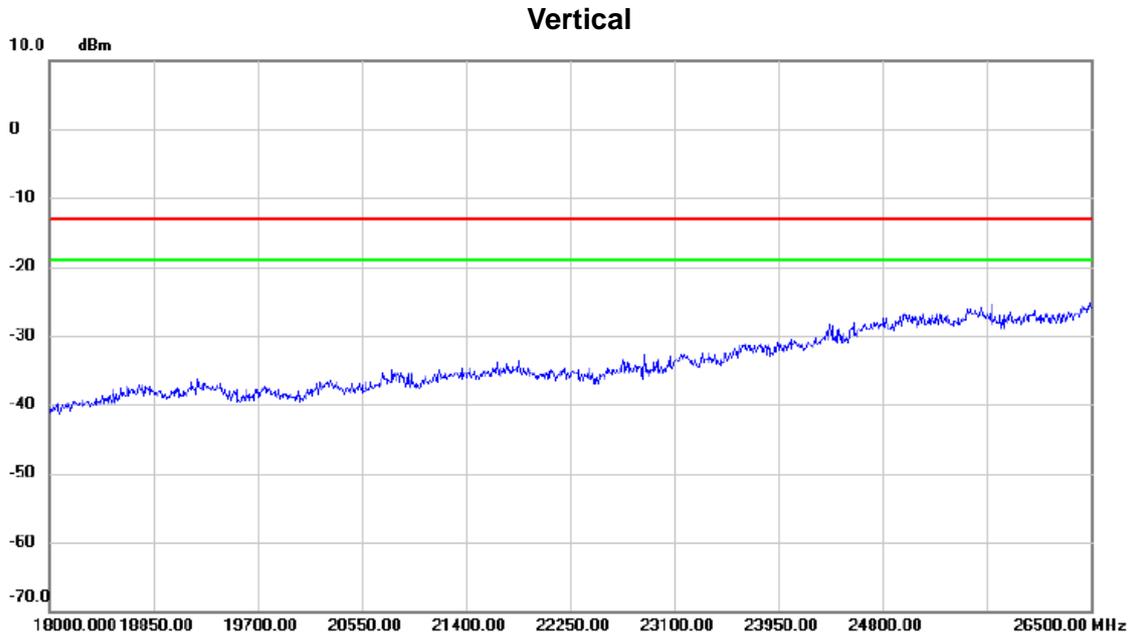
Test Mode: LTE Band 7\_TX CH21350\_20M

**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

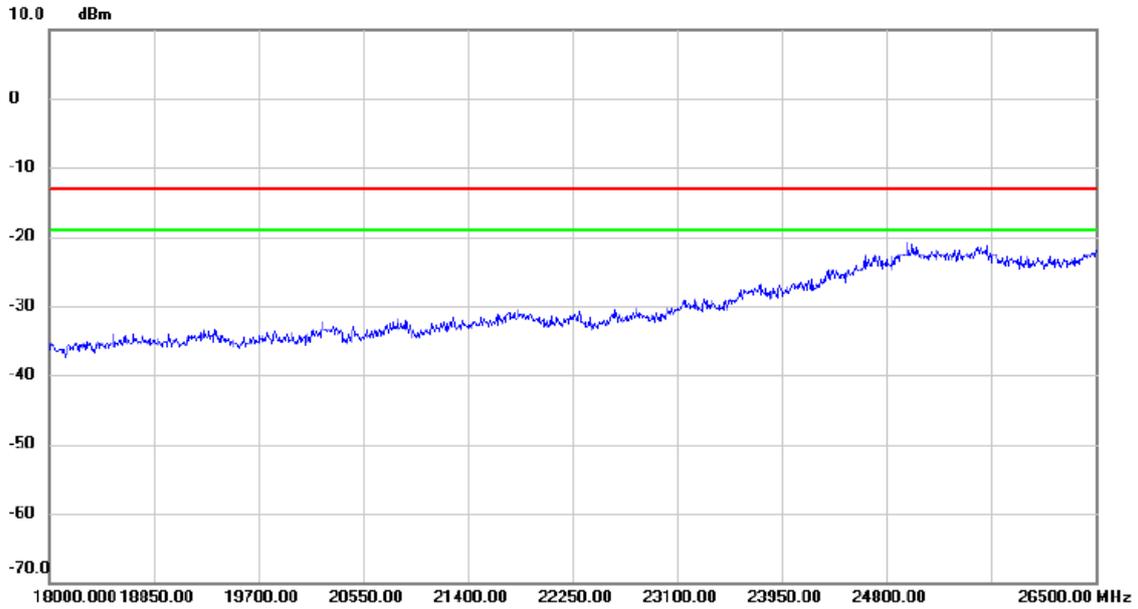
Test Mode: LTE Band 7\_TX CH21350\_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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Test Mode: LTE Band 7\_TX CH21350\_20M

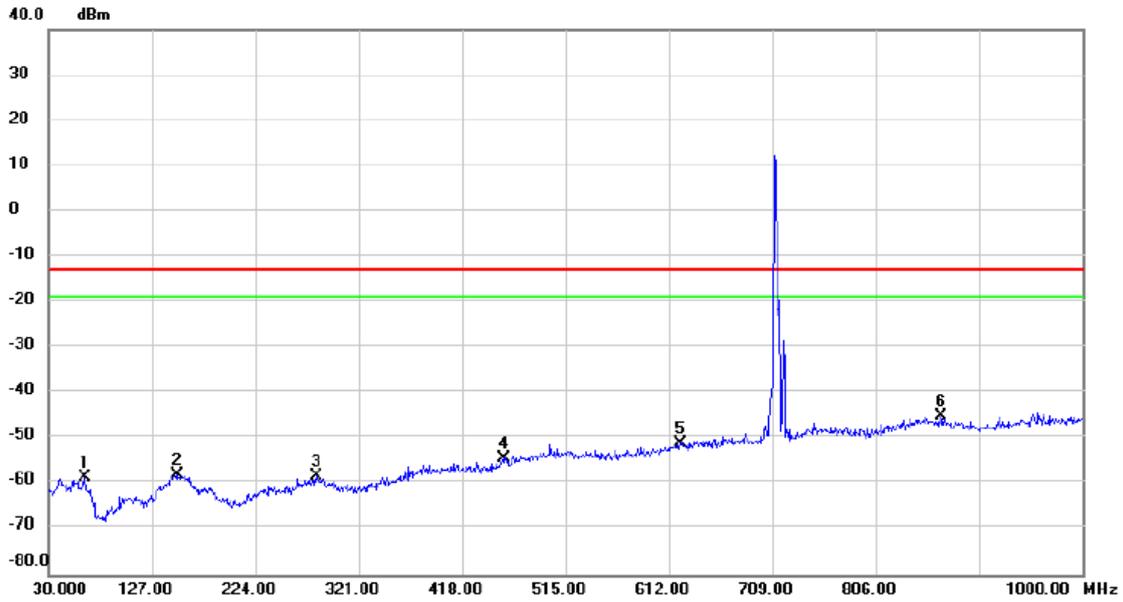
**Horizontal**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

Test Mode: LTE Band 12\_TX CH23095\_5M

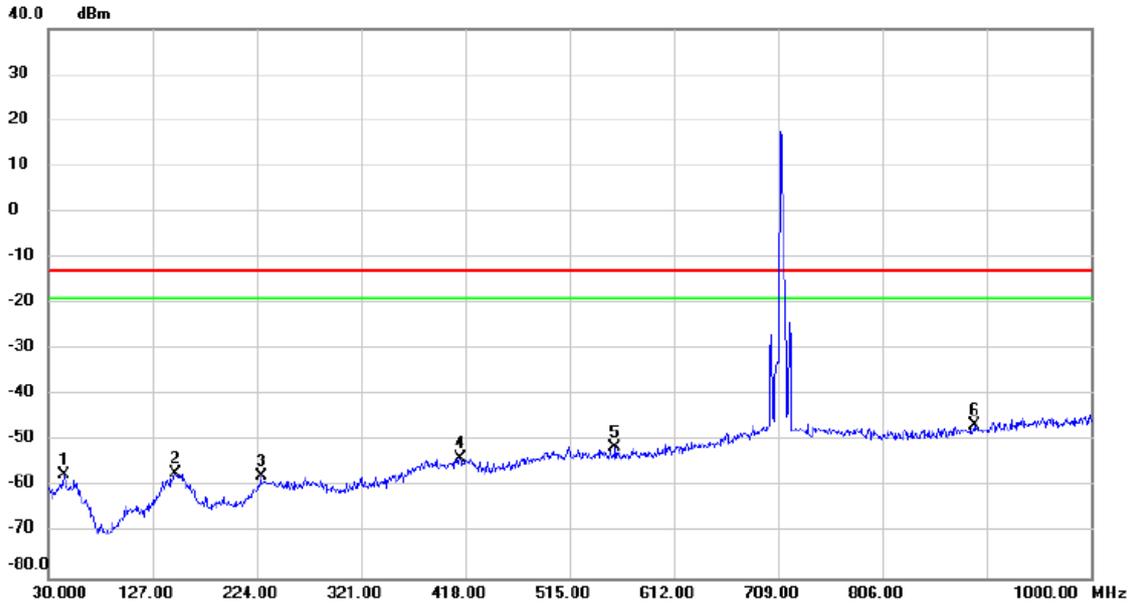
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		63.950	-63.88	5.44	-58.44	-13.00	-45.44	peak	
2		150.280	-68.05	9.96	-58.09	-13.00	-45.09	peak	
3		281.230	-67.05	8.65	-58.40	-13.00	-45.40	peak	
4		456.800	-68.26	14.05	-54.21	-13.00	-41.21	peak	
5		622.670	-67.38	16.37	-51.01	-13.00	-38.01	peak	
6	*	867.110	-65.85	20.92	-44.93	-13.00	-31.93	peak	

Test Mode: LTE Band 12\_TX CH23095\_5M

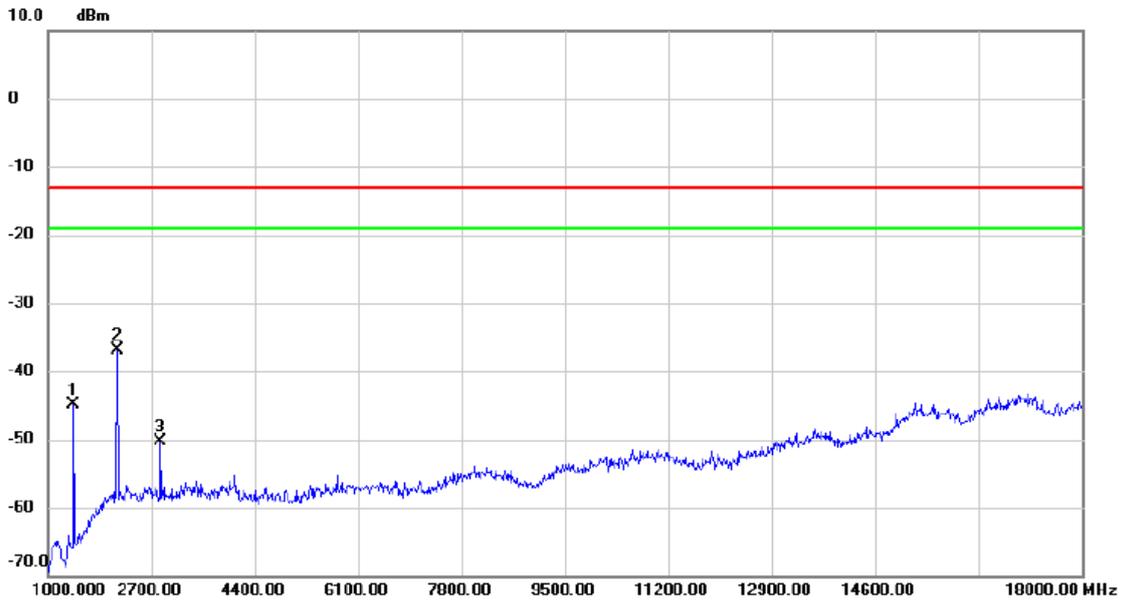
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		44.550	-59.73	2.28	-57.45	-13.00	-44.45	peak	
2		148.340	-67.15	10.02	-57.13	-13.00	-44.13	peak	
3		227.880	-63.62	5.94	-57.68	-13.00	-44.68	peak	
4		413.150	-67.23	13.52	-53.71	-13.00	-40.71	peak	
5		557.680	-66.28	14.97	-51.31	-13.00	-38.31	peak	
6	*	891.360	-67.92	21.25	-46.67	-13.00	-33.67	peak	

Test Mode: LTE Band 12\_TX CH23095\_5M

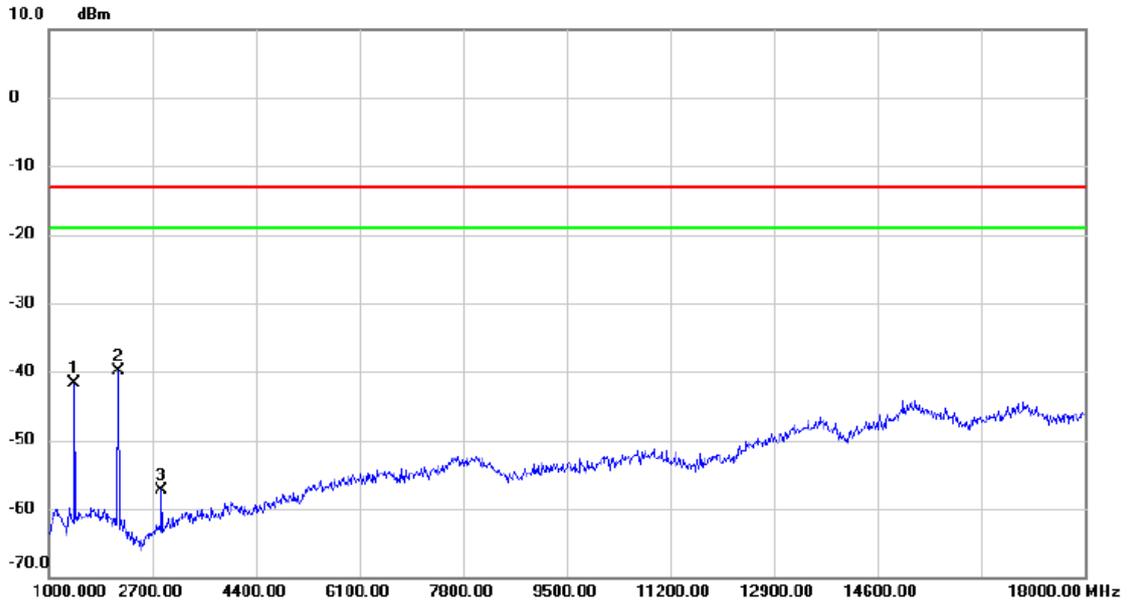
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1425.000	-34.97	-10.00	-44.97	-13.00	-31.97	peak	
2	*	2139.000	-29.23	-7.75	-36.98	-13.00	-23.98	peak	
3		2853.000	-45.50	-4.72	-50.22	-13.00	-37.22	peak	

Test Mode: LTE Band 12\_TX CH23095\_5M

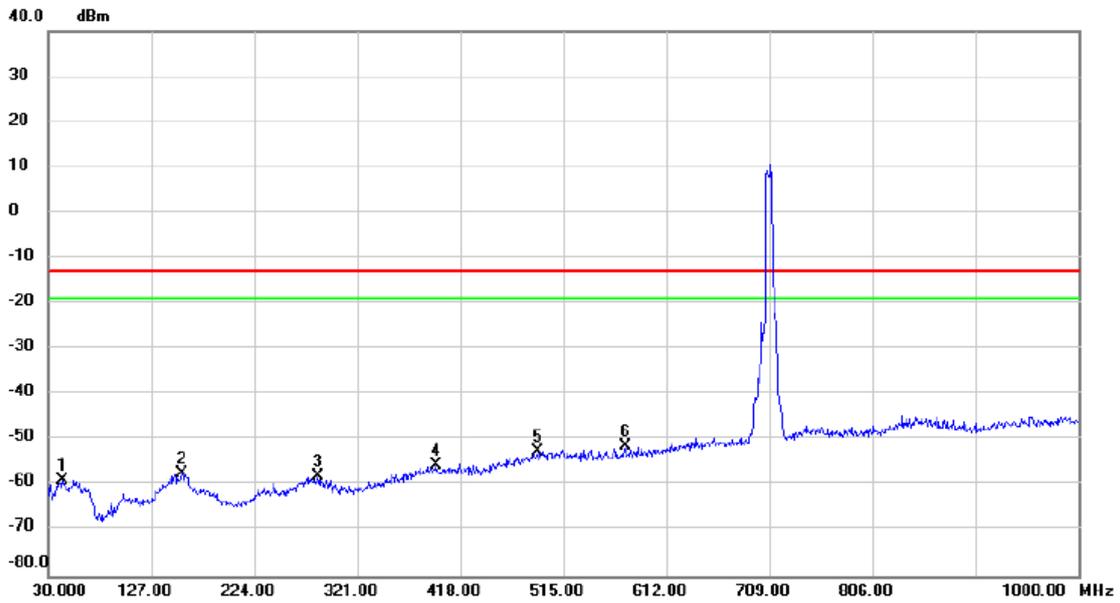
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1425.000	-31.64	-10.00	-41.64	-13.00	-28.64	peak	
2	*	2139.000	-32.22	-7.75	-39.97	-13.00	-26.97	peak	
3		2853.000	-52.58	-4.72	-57.30	-13.00	-44.30	peak	

Test Mode: LTE Band 12\_TX CH23060\_10M

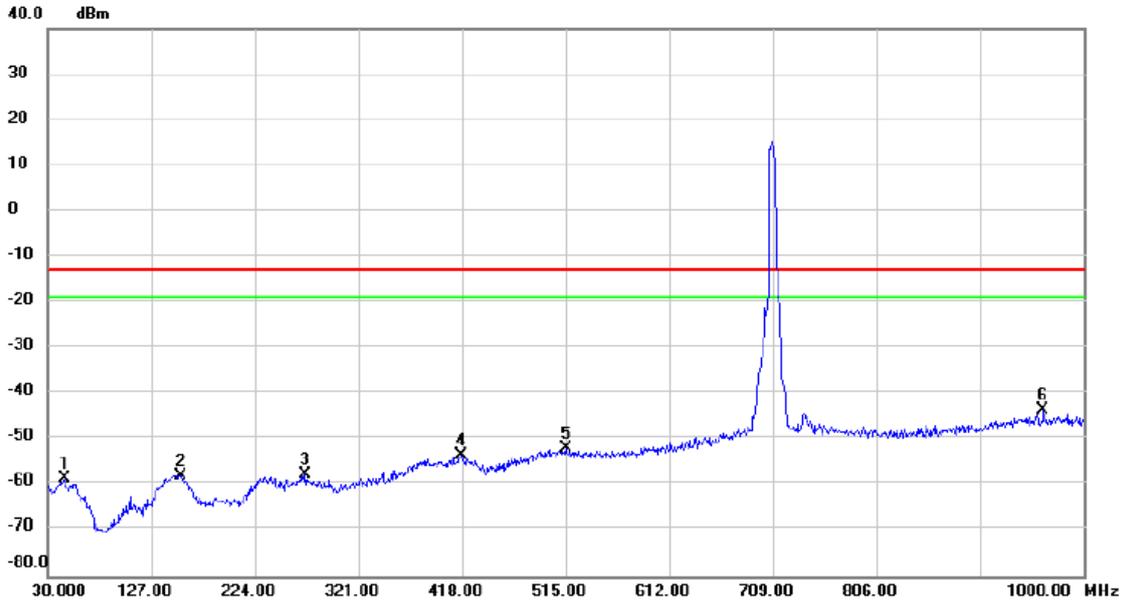
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		43.580	-60.78	1.99	-58.79	-13.00	-45.79	peak	
2		156.100	-66.73	9.53	-57.20	-13.00	-44.20	peak	
3		284.140	-66.64	8.69	-57.95	-13.00	-44.95	peak	
4		394.720	-68.78	13.09	-55.69	-13.00	-42.69	peak	
5		490.750	-66.84	14.43	-52.41	-13.00	-39.41	peak	
6	*	573.200	-66.60	15.36	-51.24	-13.00	-38.24	peak	

Test Mode: LTE Band 12\_TX CH23060\_10M

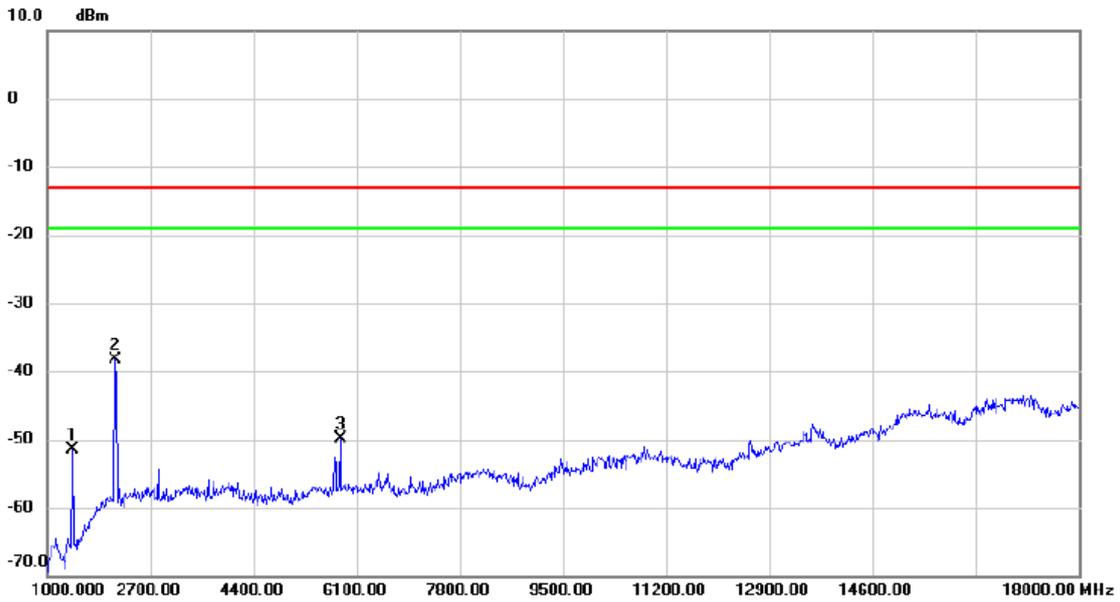
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		45.520	-61.19	2.75	-58.44	-13.00	-45.44	peak	
2		155.130	-67.46	9.60	-57.86	-13.00	-44.86	peak	
3		271.530	-65.76	7.97	-57.79	-13.00	-44.79	peak	
4		417.030	-67.07	13.56	-53.51	-13.00	-40.51	peak	
5		515.000	-66.70	14.61	-52.09	-13.00	-39.09	peak	
6	*	962.170	-65.66	22.08	-43.58	-13.00	-30.58	peak	

Test Mode: LTE Band 12\_TX CH23060\_10M

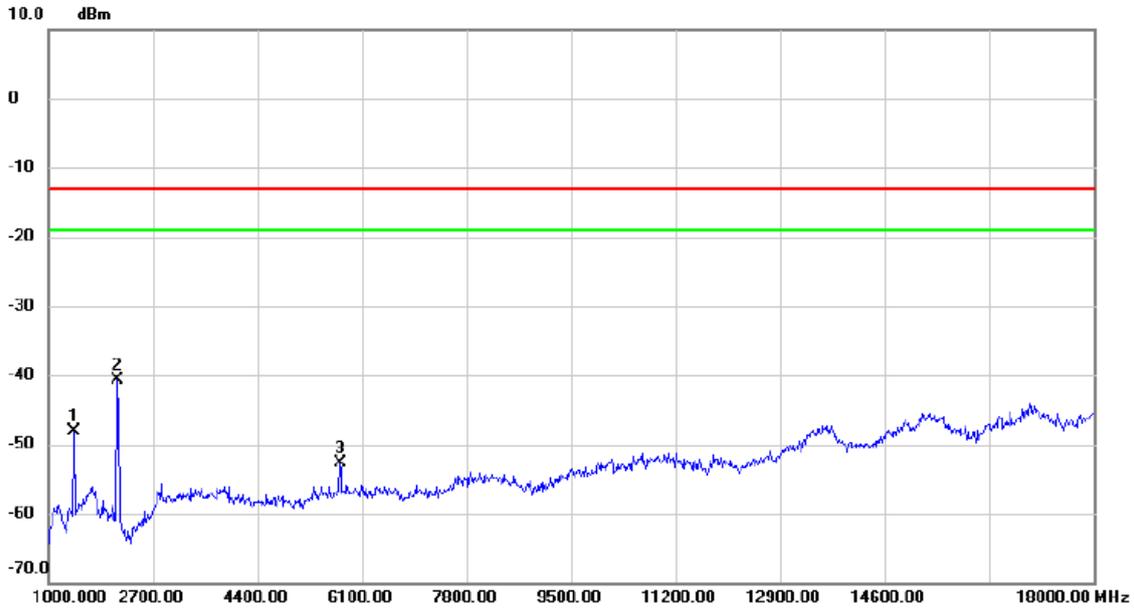
**Vertical**



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1425.000	-41.44	-10.00	-51.44	-13.00	-38.44	peak	
2	*	2122.000	-30.37	-7.85	-38.22	-13.00	-25.22	peak	
3		5828.000	-54.80	4.84	-49.96	-13.00	-36.96	peak	

Test Mode: LTE Band 12\_TX CH23060\_10M

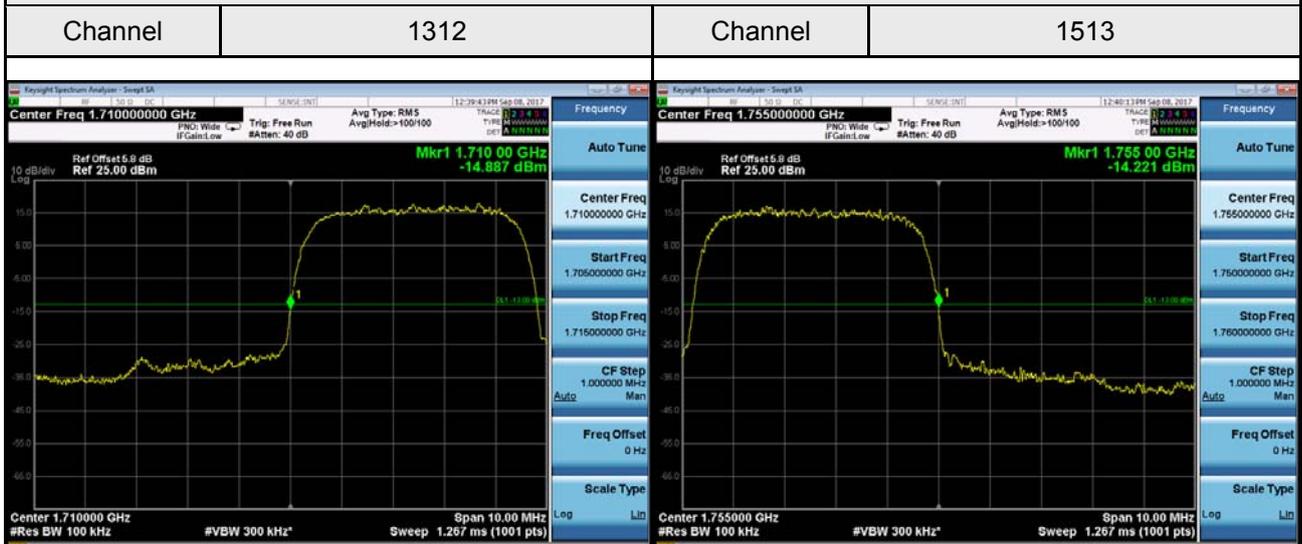
**Horizontal**



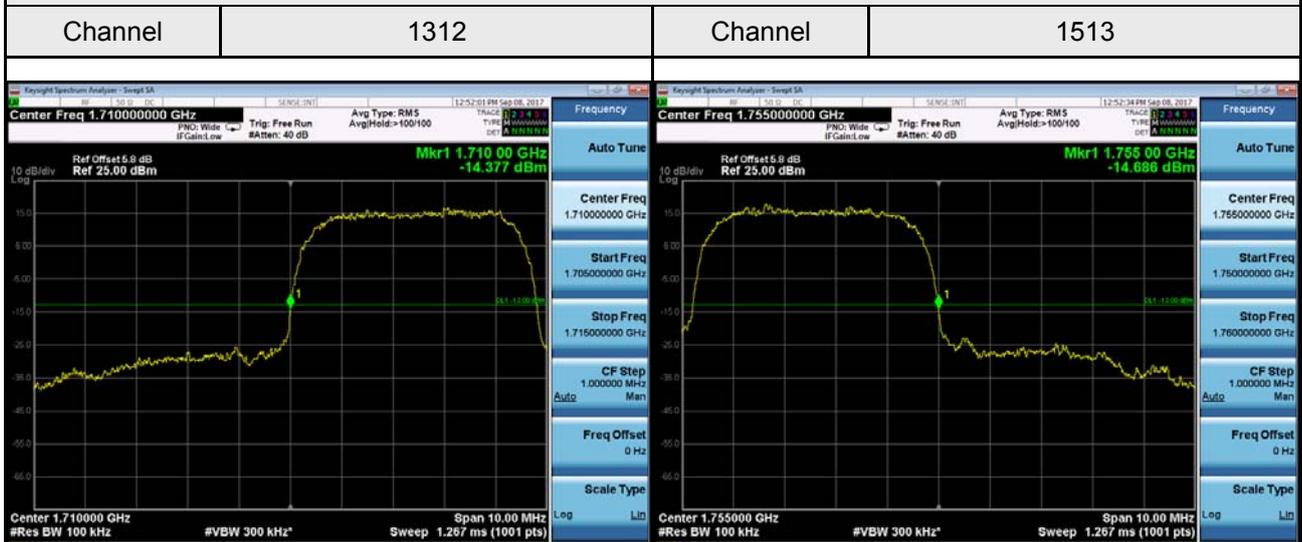
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		1425.000	-38.03	-10.00	-48.03	-13.00	-35.03	peak	
2	*	2122.000	-32.77	-7.85	-40.62	-13.00	-27.62	peak	
3		5743.000	-57.18	4.58	-52.60	-13.00	-39.60	peak	

## ATTACHMENT E - BAND EDGE

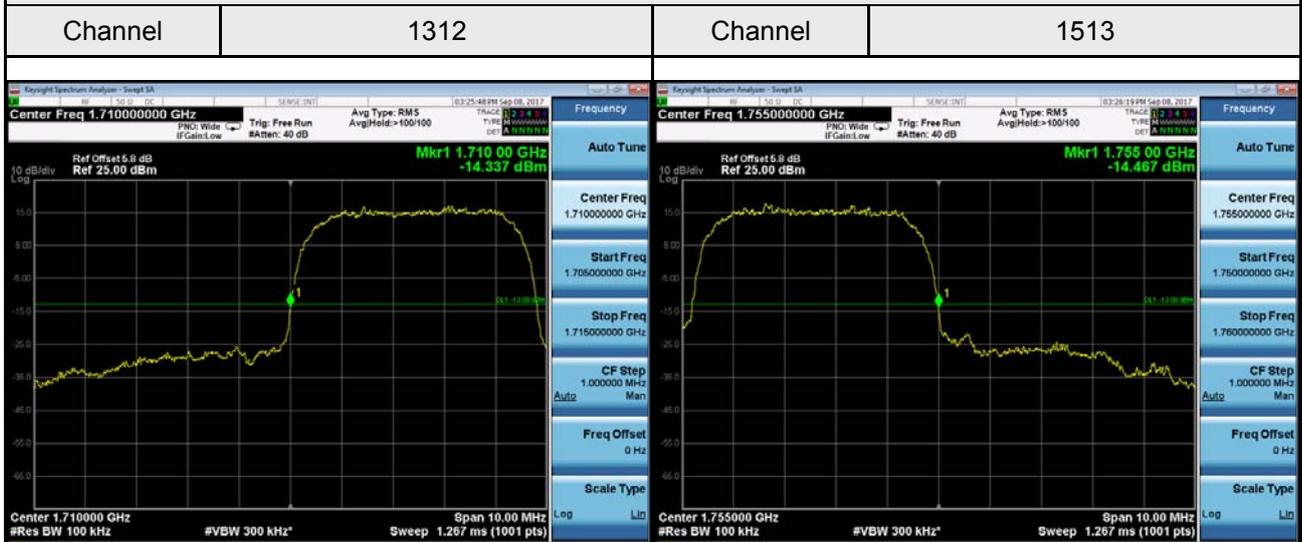
### WCDMA Band 4\_WCDMA



### WCDMA Band 4\_HSDPA



### WCDMA Band 4\_HSUPA



LTE Band 4\_5M

1RB0

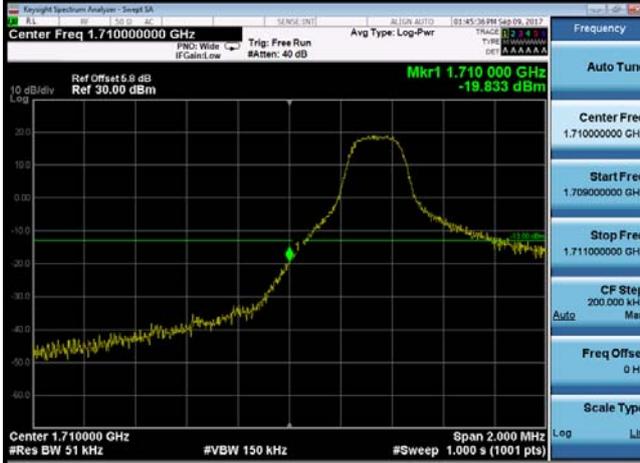
1RB24

Channel

19975

Channel

20375



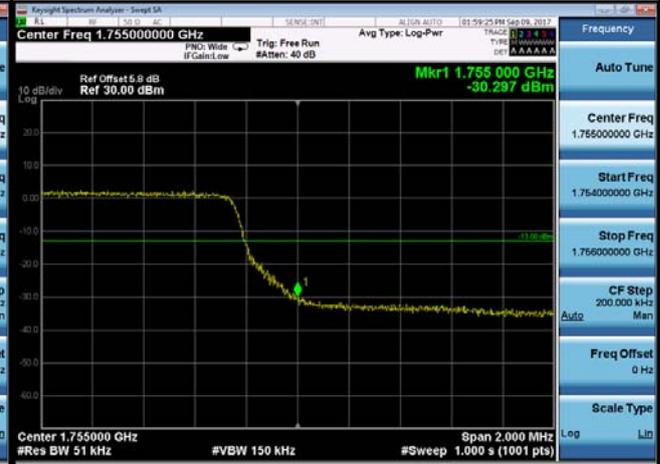
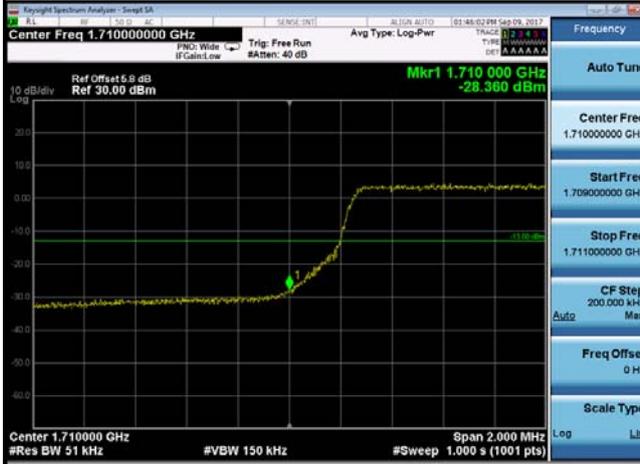
25RB0

Channel

19975

Channel

20375



LTE Band 4\_10M

1RB0

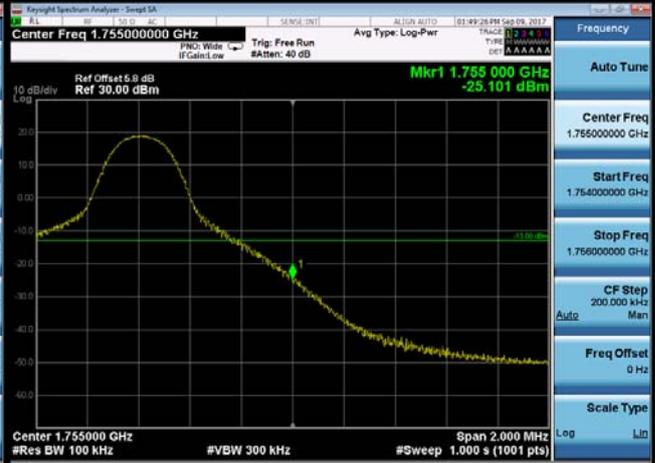
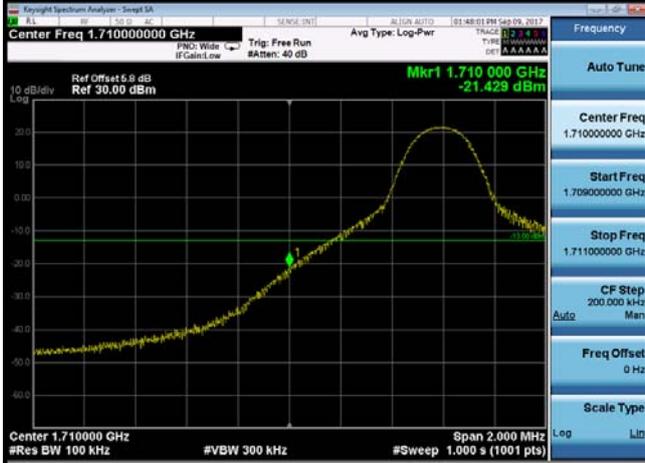
1RB49

Channel

2000

Channel

20350



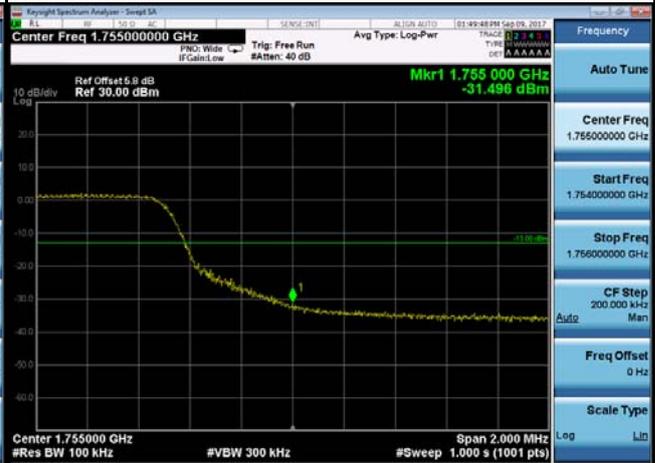
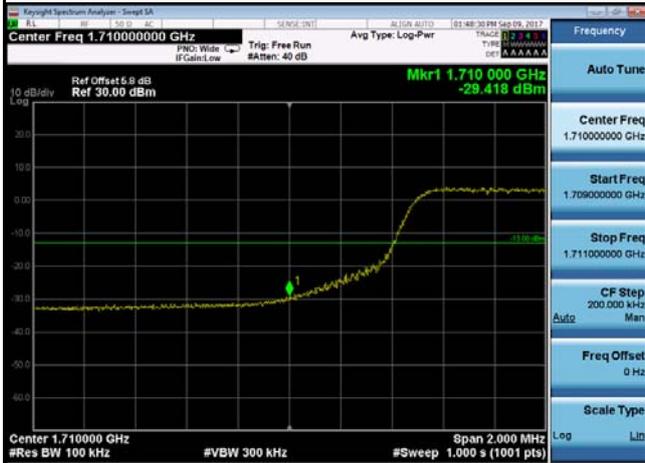
50RB0

Channel

2000

Channel

20350



LTE Band 4\_15M

1RB0

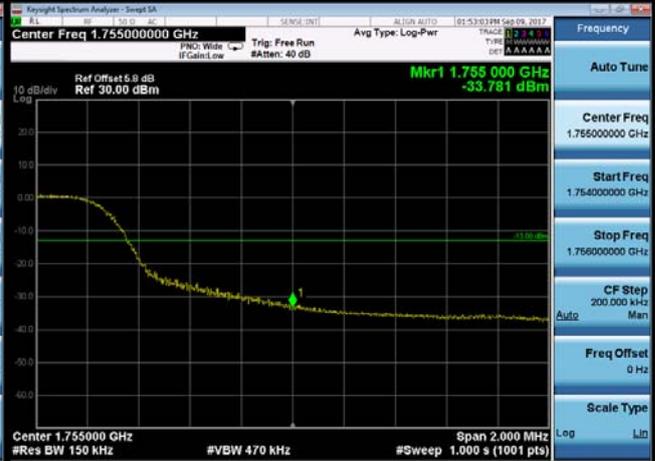
1RB74

Channel

20025

Channel

20325



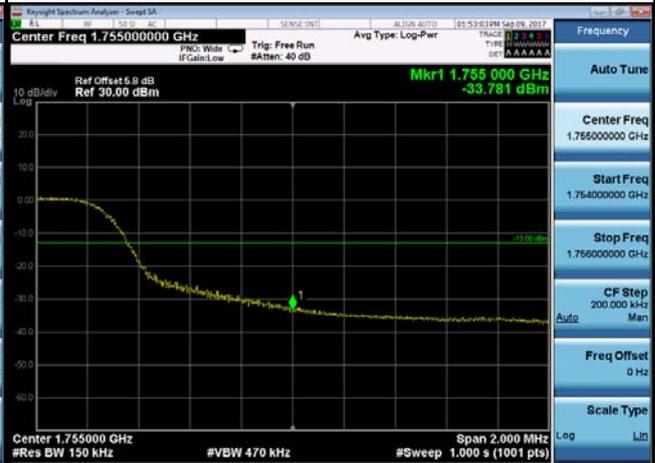
75RB0

Channel

20025

Channel

20325



LTE Band 4\_20M

1RB0

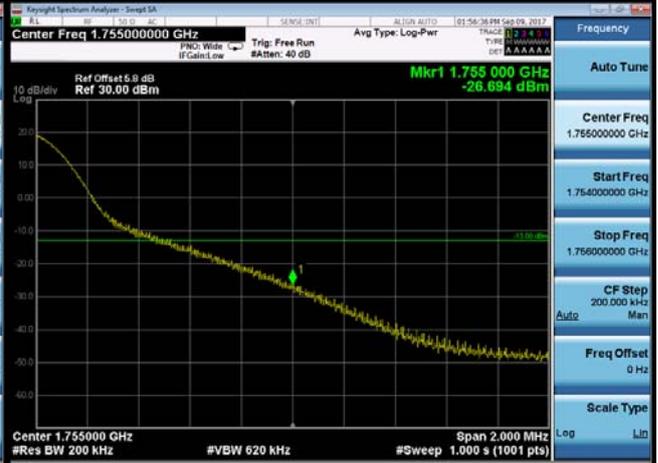
1RB99

Channel

20050

Channel

20300



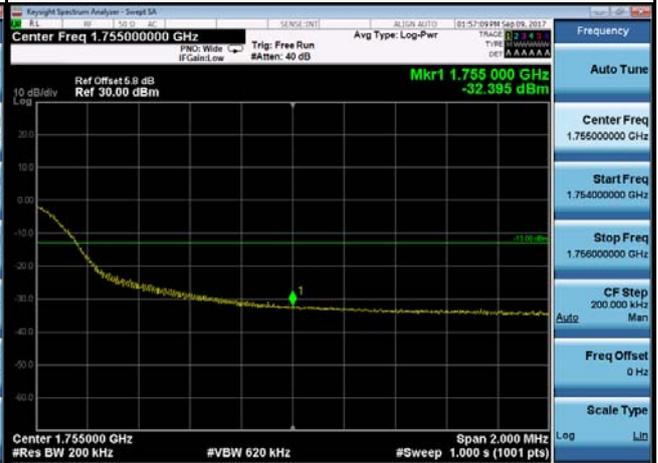
100RB0

Channel

20050

Channel

20300



LTE Band 7\_5M

1RB0

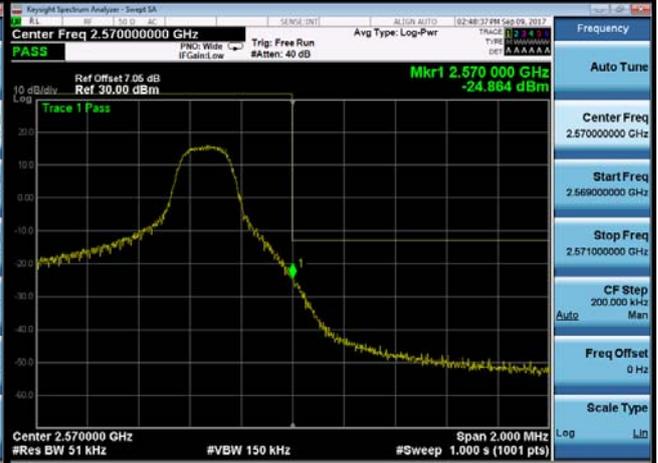
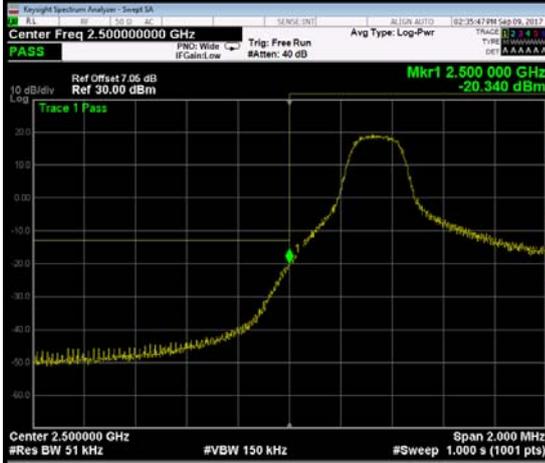
1RB24

Channel

20775

Channel

21425



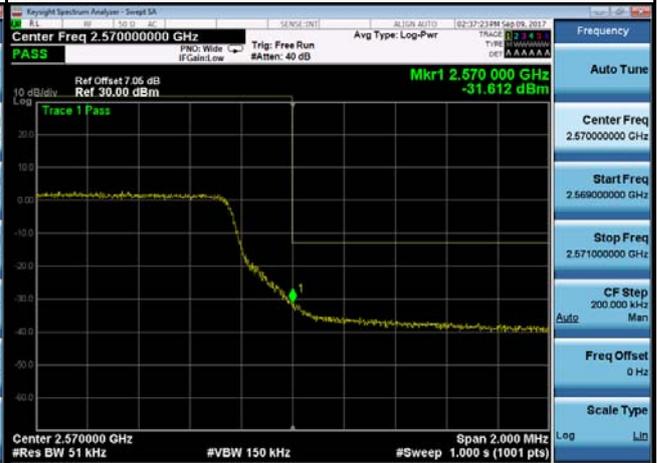
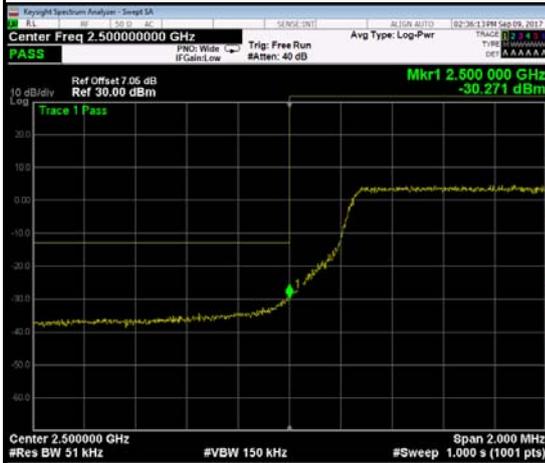
25RB0

Channel

20775

Channel

21425



LTE Band 7\_10M

1RB0

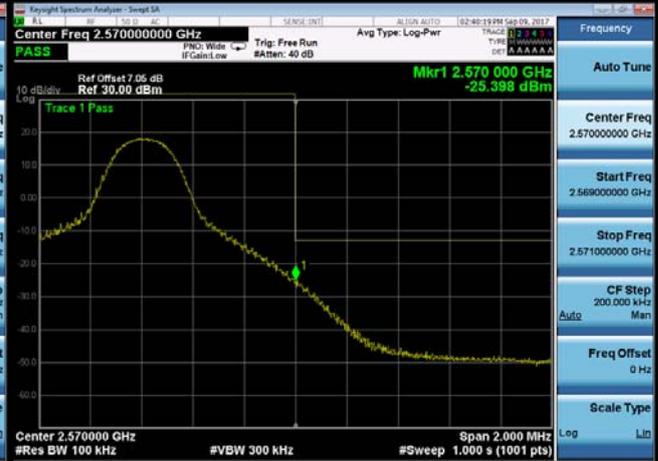
1RB49

Channel

20800

Channel

21400



50RB0

Channel

20800

Channel

21400



LTE Band 7\_15M

1RB0

1RB74

Channel

20825

Channel

21375



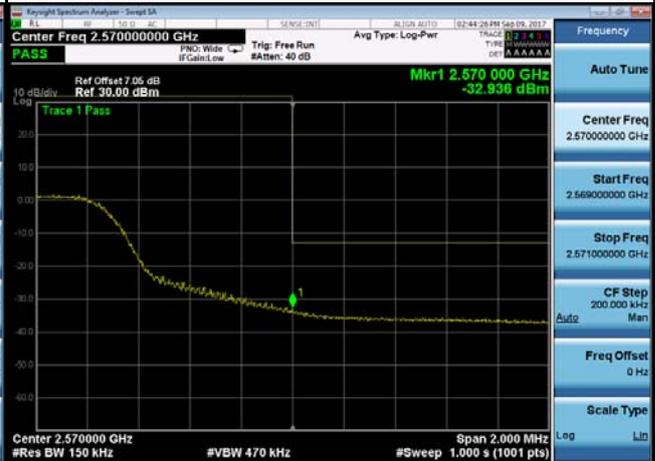
75RB0

Channel

20825

Channel

21375



LTE Band 7\_20M

1RB0

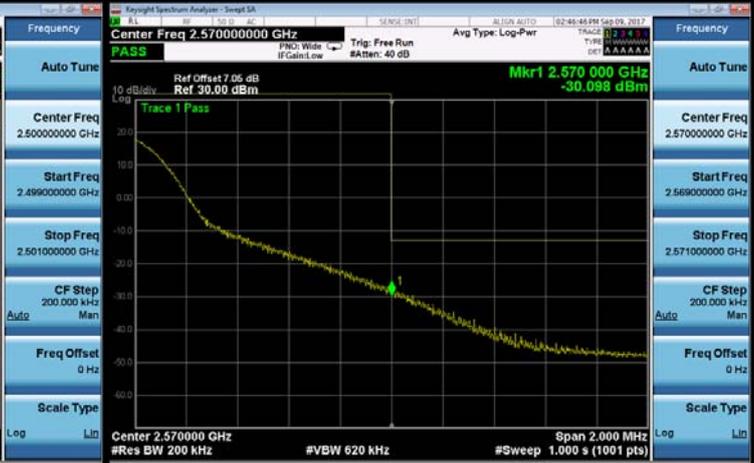
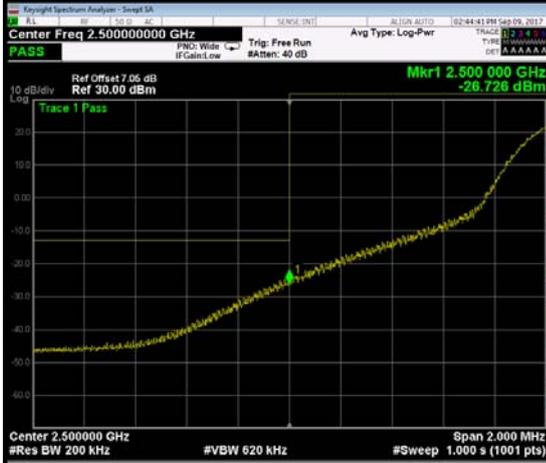
1RB99

Channel

20850

Channel

21350



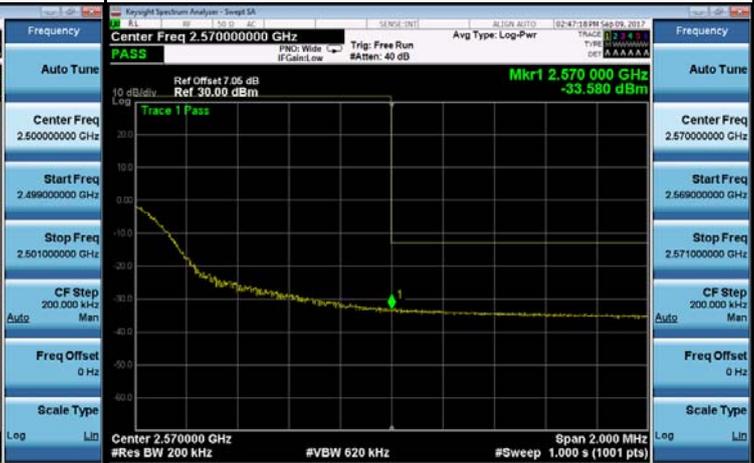
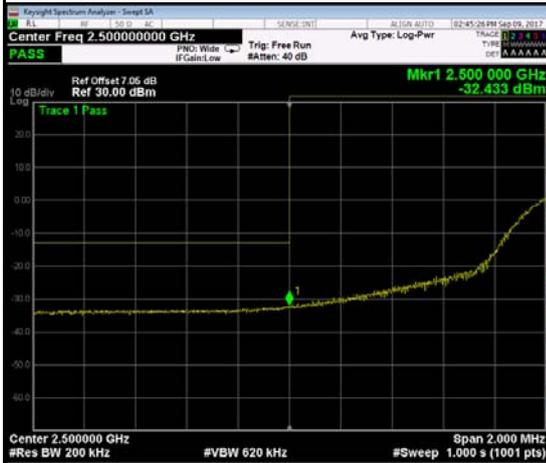
100RB0

Channel

20850

Channel

21350



LTE Band 12\_5M

1RB0

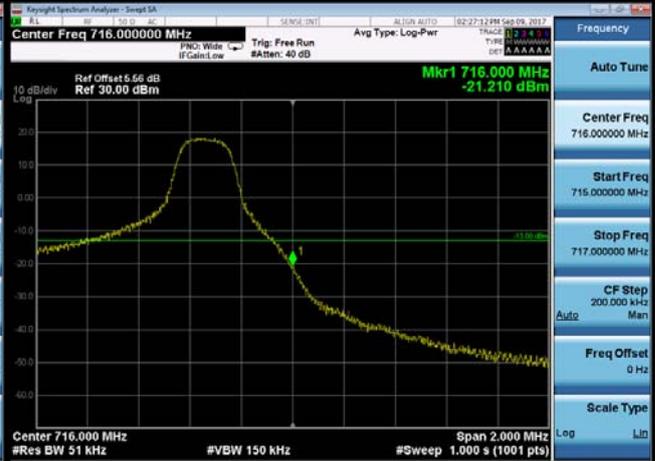
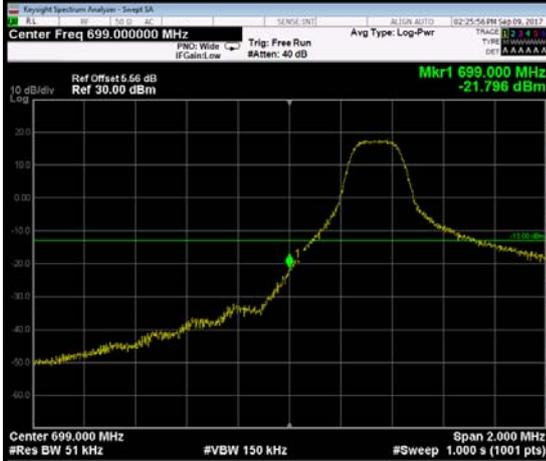
1RB24

Channel

23035

Channel

23155



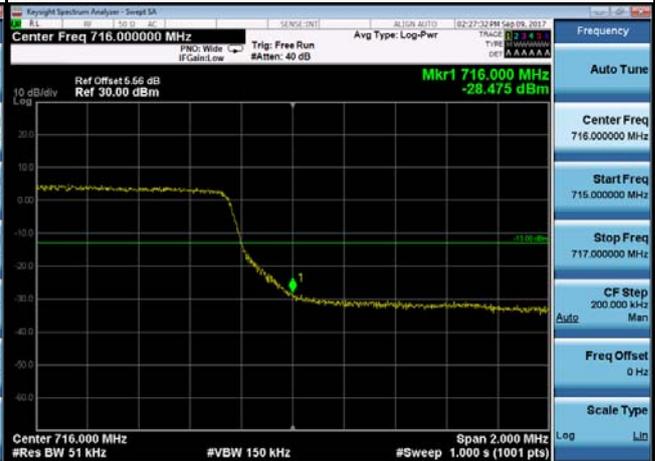
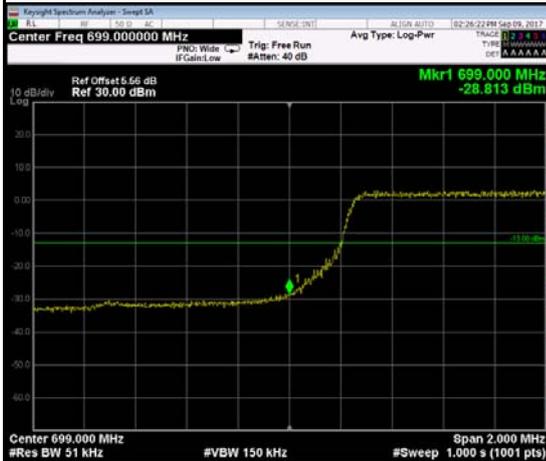
25RB0

Channel

23035

Channel

23155



LTE Band 12\_10M

1RB0

1RB49

Channel

23060

Channel

20350



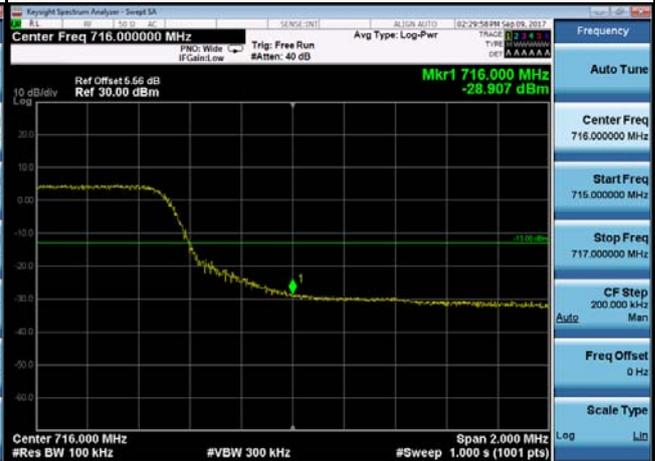
50RB0

Channel

23060

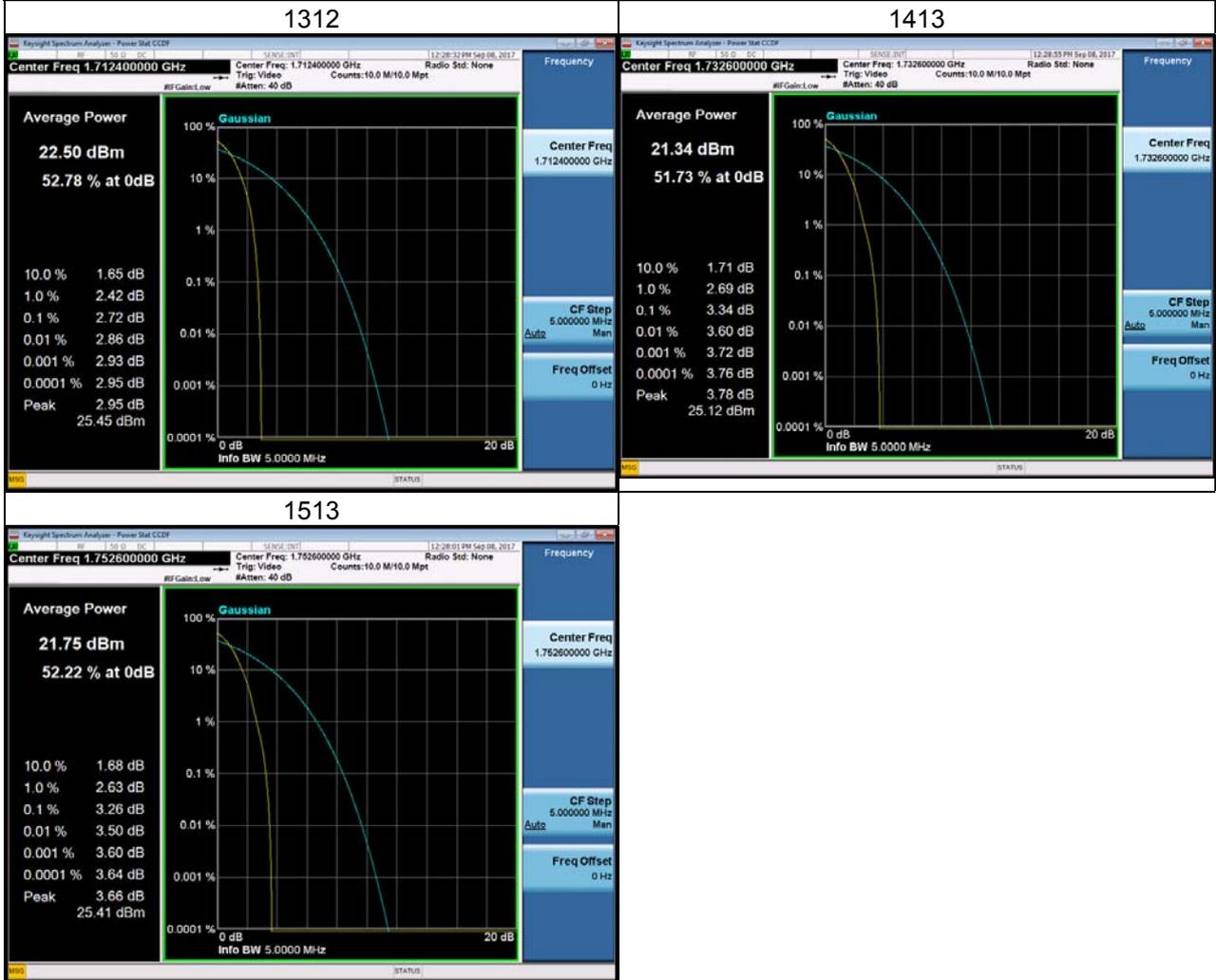
Channel

20350

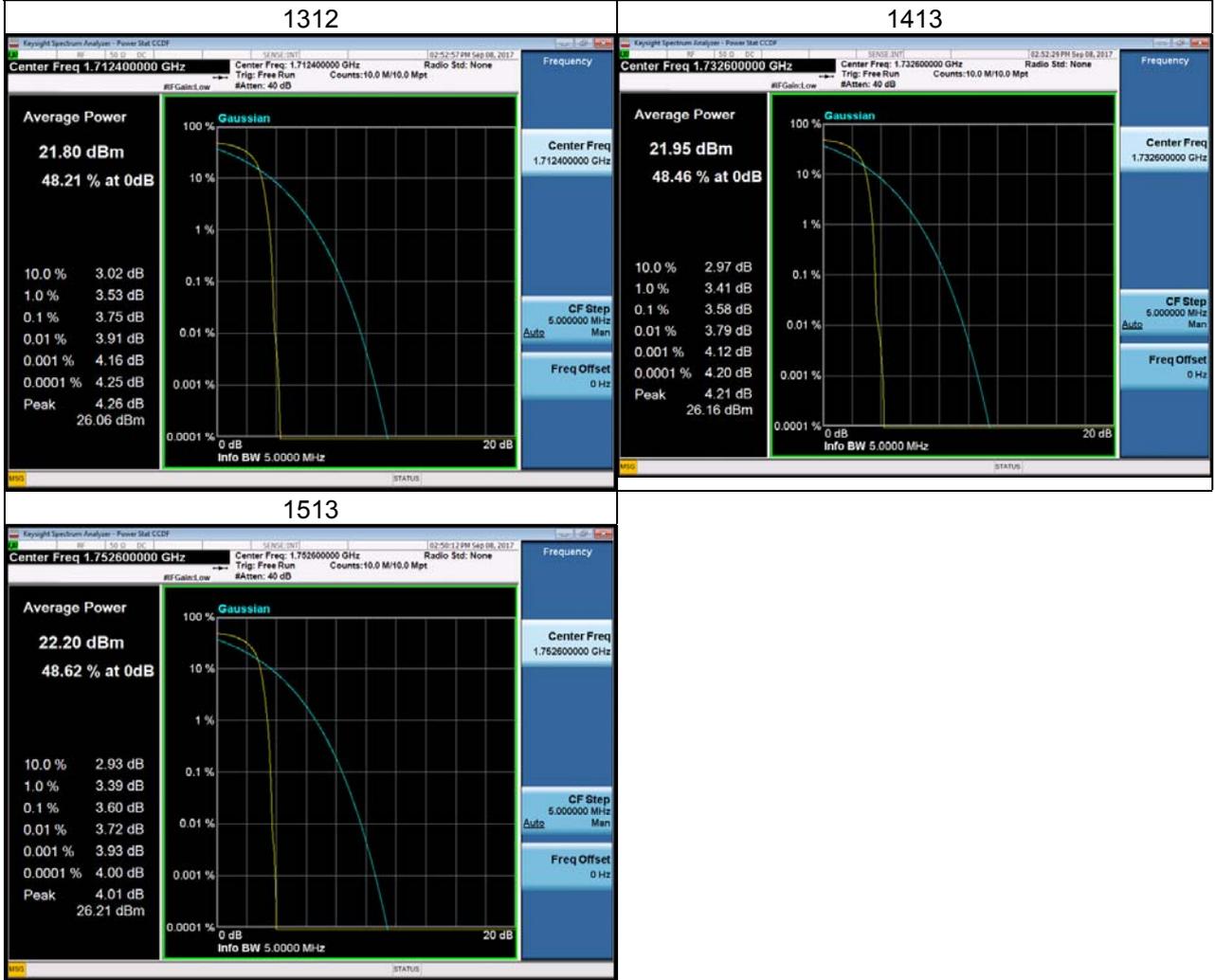


## ATTACHMENT F - PEAK TO AVERAGE RATIO

### WCDMA Band 4 Spectrum Plot\_WCDMA



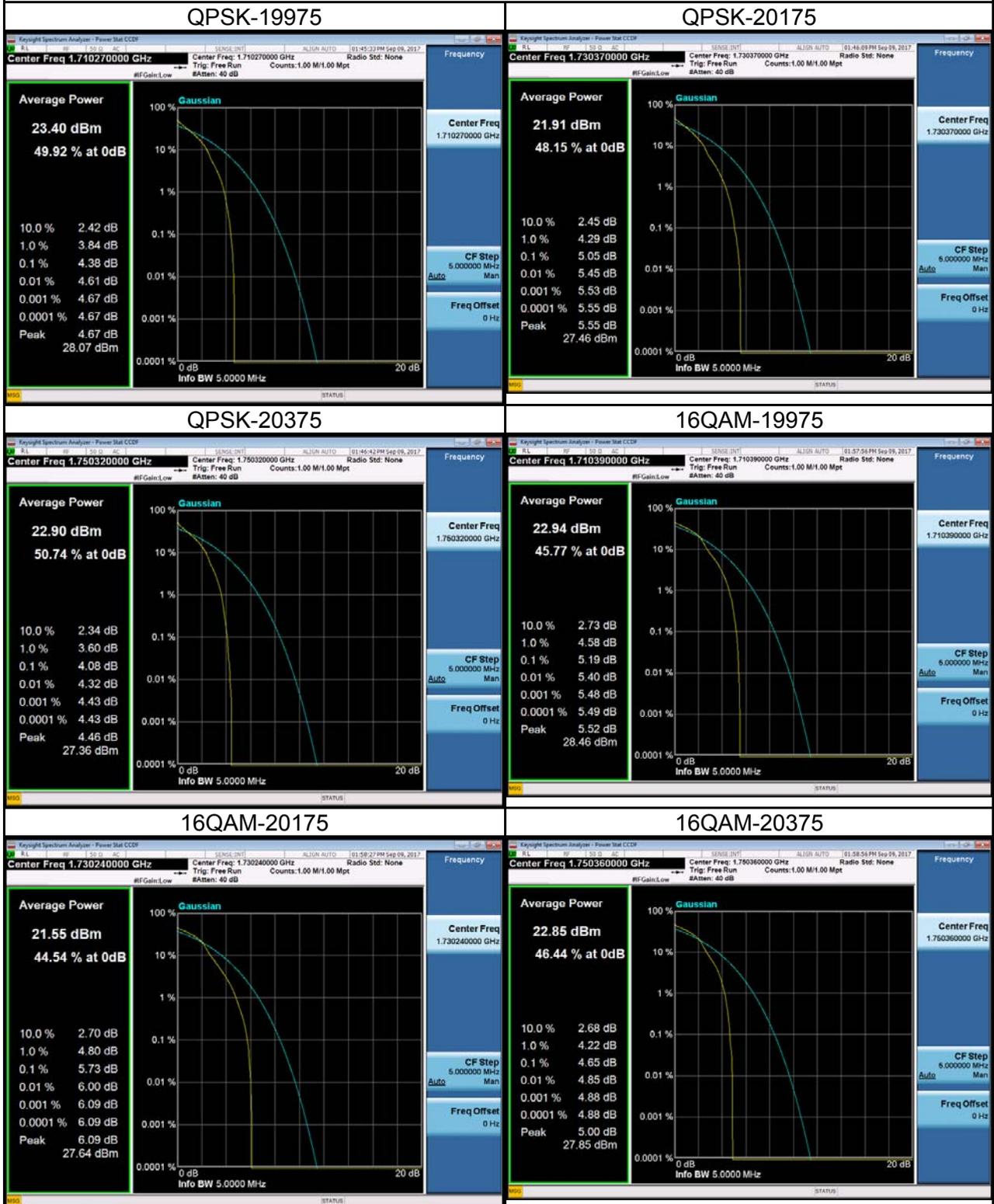
### WCDMA Band 4 Spectrum Plot\_HSDPA



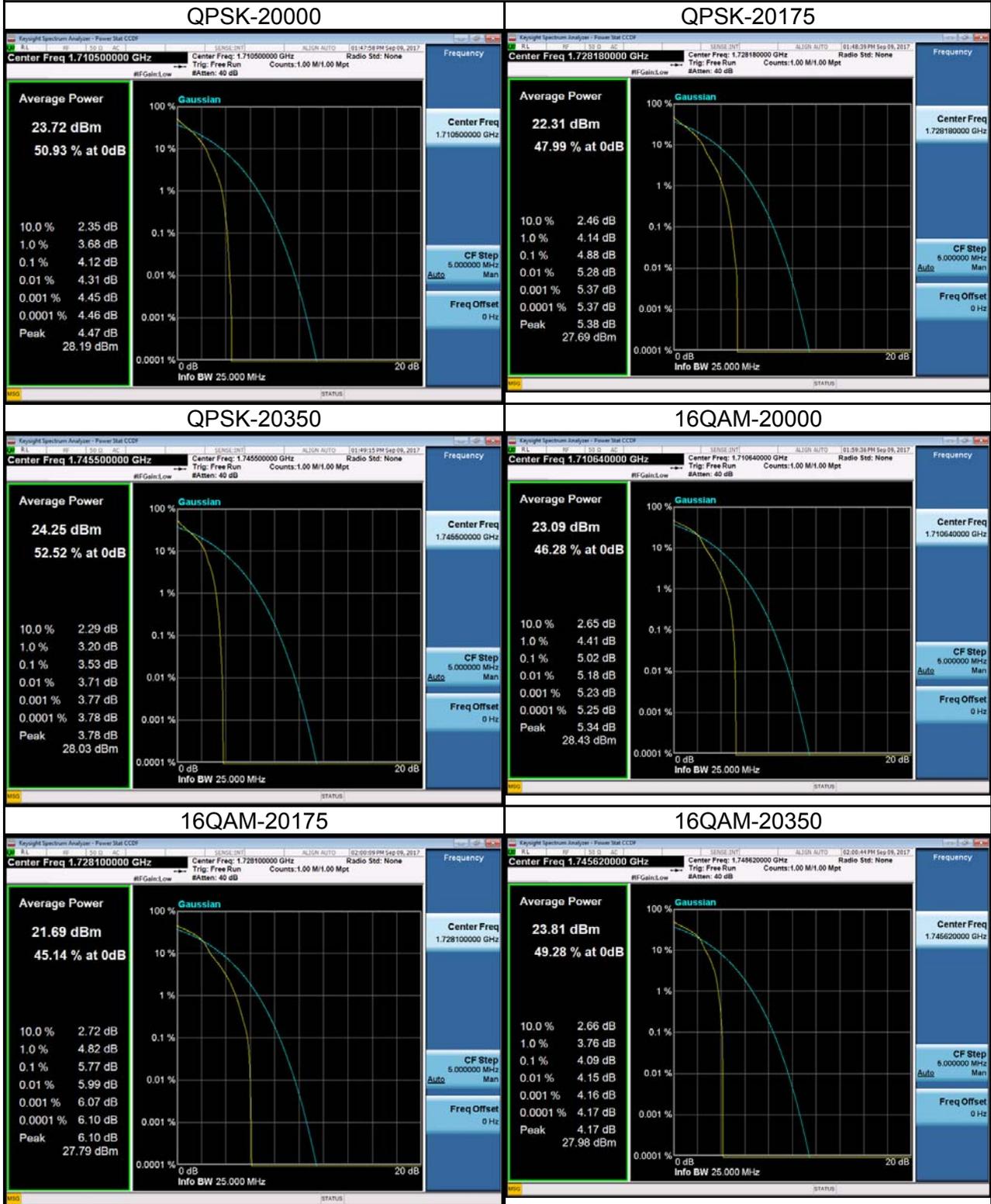
### WCDMA Band 4 Spectrum Plot\_HSUPA



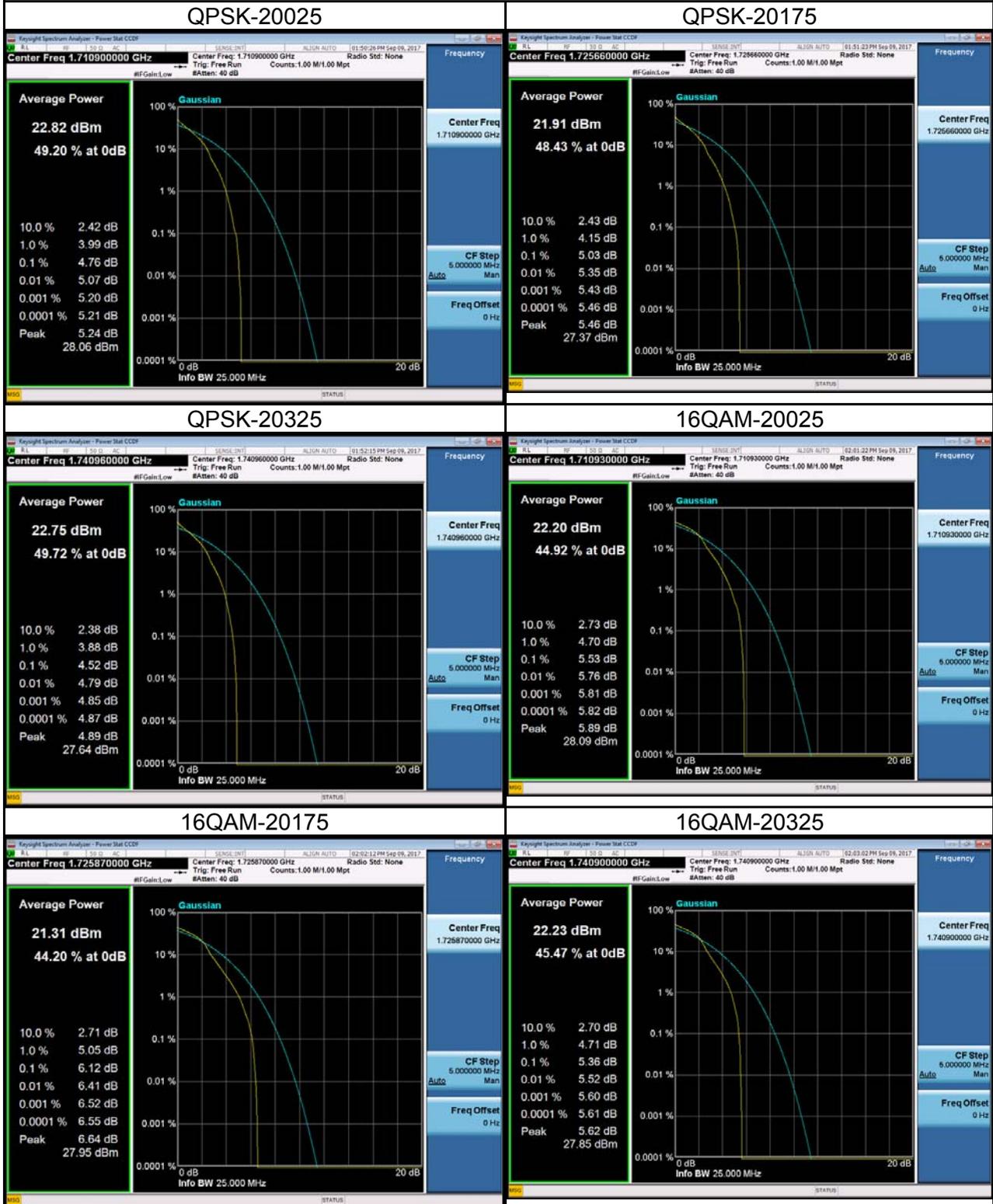
### LTE Band 4 Spectrum Plot\_5M



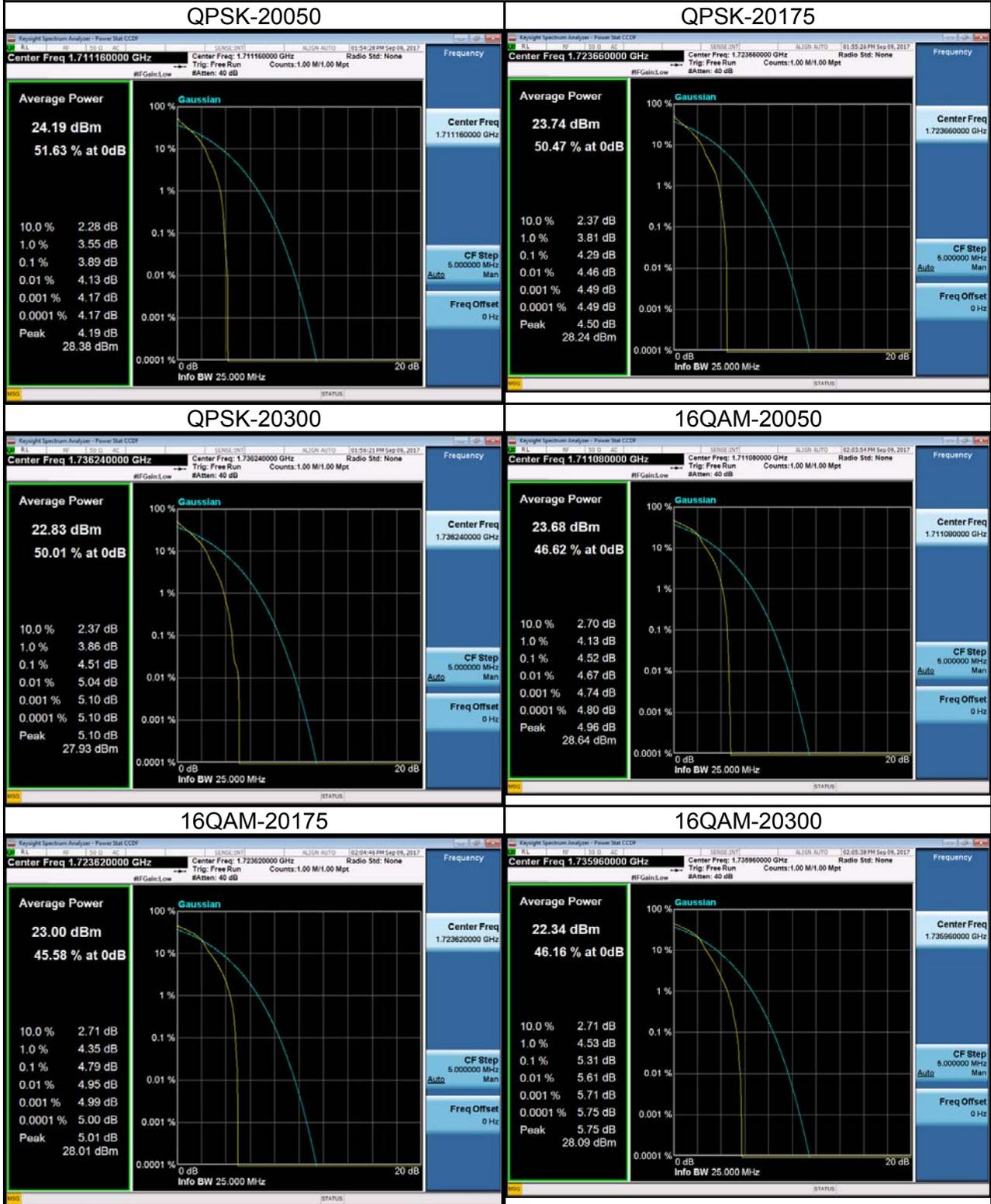
### LTE Band 4 Spectrum Plot\_10M



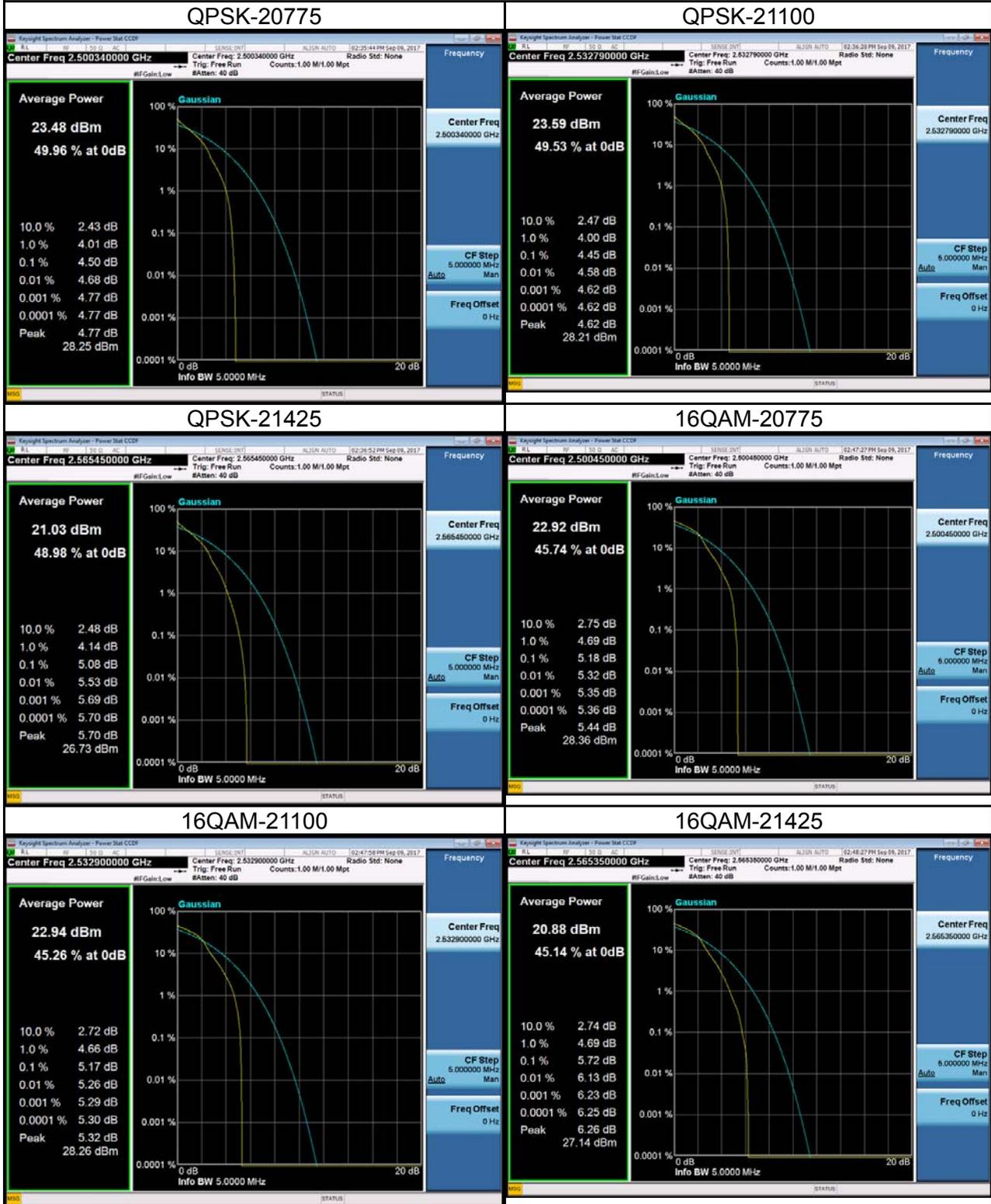
### LTE Band 4 Spectrum Plot\_15M



### LTE Band 4 Spectrum Plot\_20M



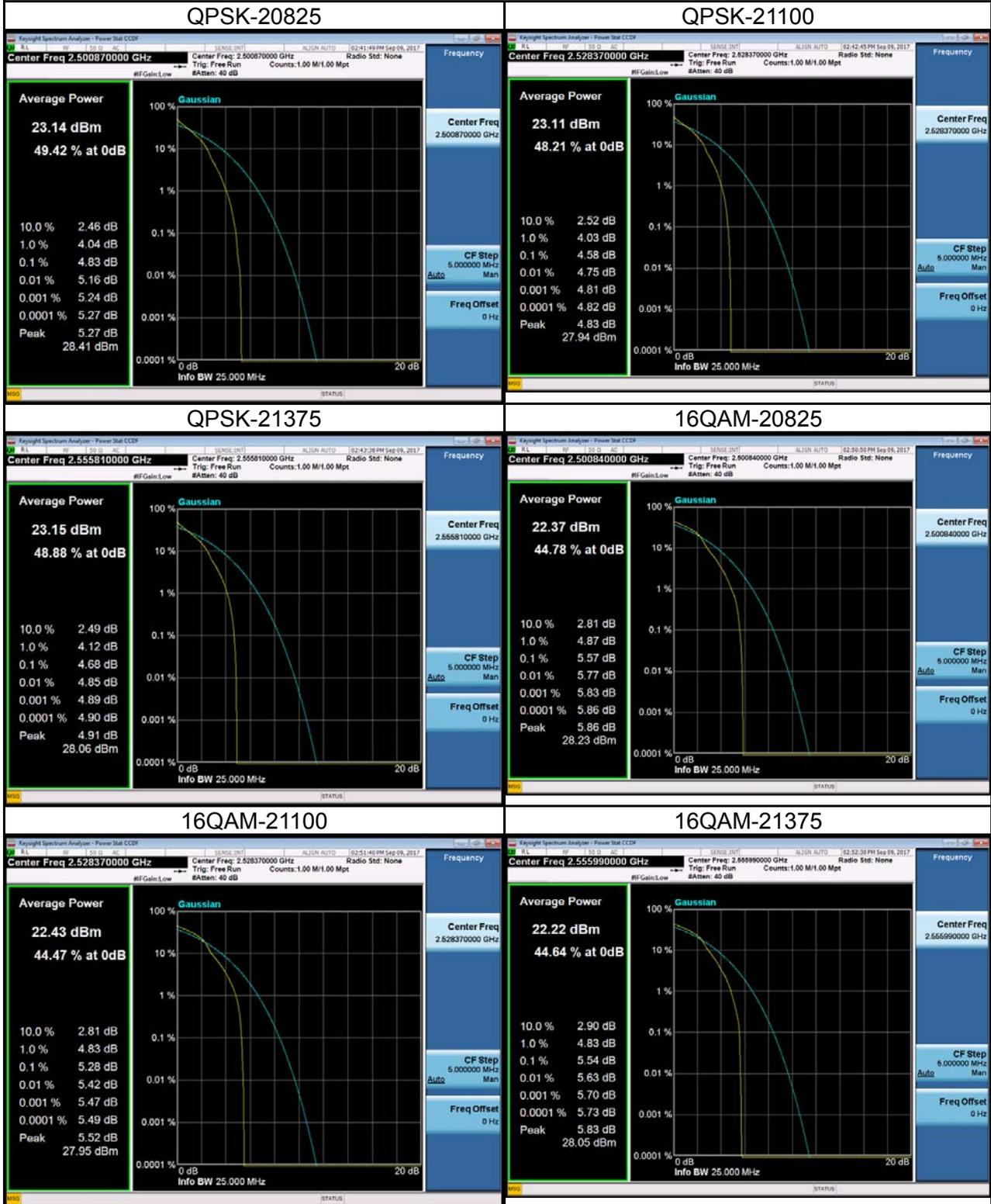
### LTE Band 7 Spectrum Plot\_5M



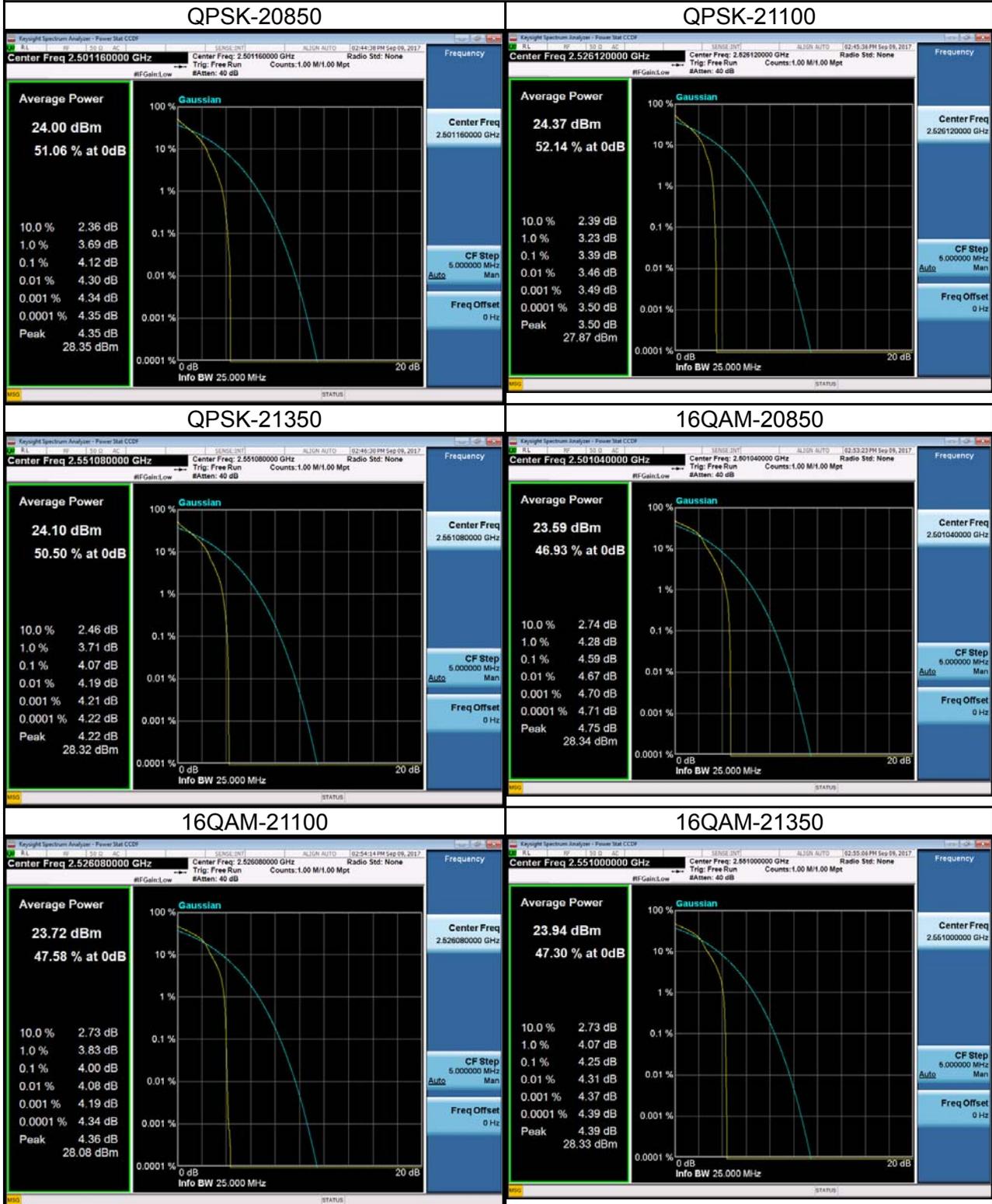
### LTE Band 7 Spectrum Plot\_10M



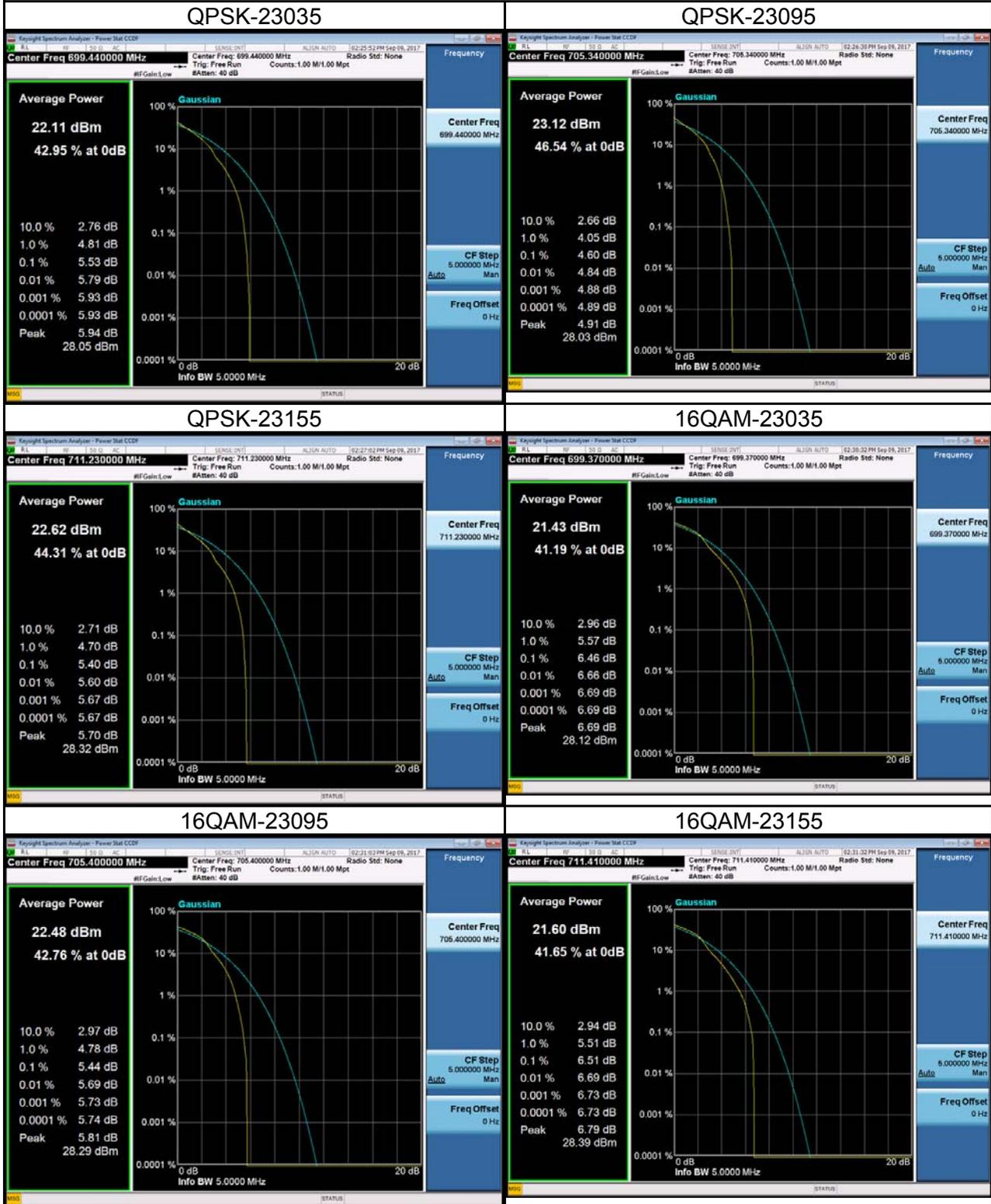
### LTE Band 7 Spectrum Plot\_15M



### LTE Band 7 Spectrum Plot\_20M



### LTE Band 12 Spectrum Plot\_5M



### LTE Band 12 Spectrum Plot\_10M



## ATTACHMENT G - FREQUENCY STABILITY

Test Mode:	WCDMA Band 4_CH1413
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.88	0.003970911	2.5
-20	7.74	0.004467275	2.5
-10	7.39	0.004265266	2.5
0	6.91	0.003988226	2.5
10	5.99	0.003457232	2.5
20	7.05	0.004069029	2.5
30	6.22	0.00358998	2.5
40	5.84	0.003370657	2.5
50	6.51	0.003757359	2.5
Max. Deviation (ppm)	<b>7.74</b>	<b>0.004467275</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	8.32	0.004802032	2.5
5	6.79	0.003918966	2.5
5.5	8.46	0.004882835	2.5
Max. Deviation (ppm)	<b>8.46</b>	<b>0.004882835</b>	2.5

Test Mode:	LTE Band 4_CH20175_5M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.56	0.001477633	2.5
-20	3.67	0.002118326	2.5
-10	-4.16	0.002401154	2.5
0	-1.96	0.001131313	2.5
10	3.69	0.00212987	2.5
20	-2.44	0.001408369	2.5
30	3.41	0.001968254	2.5
40	2.54	0.001466089	2.5
50	-3.07	0.001772006	2.5
Max. Deviation (ppm)	<b>4.16</b>	<b>0.002401154</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.64	0.00210101	2.5
4.0	-2.76	0.001593074	2.5
4.2	-3.44	0.00198557	2.5
Max. Deviation (ppm)	<b>3.64</b>	<b>0.00210101</b>	2.5

Test Mode:	LTE Band 4_CH20175_10M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.32	0.002493506	2.5
-20	-2.79	0.00161039	2.5
-10	3.46	0.001997114	2.5
0	-2.16	0.001246753	2.5
10	3.64	0.00210101	2.5
20	-1.78	0.001027417	2.5
30	2.46	0.001419913	2.5
40	3.79	0.00218759	2.5
50	-3.76	0.002170274	2.5
Max. Deviation (ppm)	<b>4.32</b>	<b>0.002493506</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-3.47	0.002002886	2.5
4.0	1.79	0.001033189	2.5
4.2	-3.11	0.001795094	2.5
Max. Deviation (ppm)	<b>3.47</b>	<b>0.002002886</b>	2.5

Test Mode:	LTE Band 4_CH20175_15M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-5.06	0.002920635	2.5
-20	-3.46	0.001997114	2.5
-10	3.49	0.00201443	2.5
0	-3.47	0.002002886	2.5
10	2.64	0.00152381	2.5
20	-3.52	0.002031746	2.5
30	3.78	0.002181818	2.5
40	-1.67	0.000963925	2.5
50	2.75	0.001587302	2.5
Max. Deviation (ppm)	<b>5.06</b>	<b>0.002920635</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.52	0.001454545	2.5
4.0	-2.79	0.00161039	2.5
4.2	3.90	0.002251082	2.5
Max. Deviation (ppm)	<b>3.90</b>	<b>0.002251082</b>	2.5

Test Mode:	LTE Band 4_CH20175_20M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.79	0.001033189	2.5
-20	-3.76	0.002170274	2.5
-10	-2.59	0.001494949	2.5
0	4.91	0.002834055	2.5
10	2.49	0.001437229	2.5
20	-3.73	0.002152958	2.5
30	-2.17	0.001252525	2.5
40	2.49	0.001437229	2.5
50	-4.74	0.002735931	2.5
Max. Deviation (ppm)	<b>4.91</b>	<b>0.002834055</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	-4.16	0.002401154	2.5
5	-3.16	0.001823954	2.5
5.5	2.99	0.00172583	2.5
Max. Deviation (ppm)	<b>4.16</b>	<b>0.002401154</b>	2.5

Test Mode:	LTE Band 7_CH21100_5M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.42	0.000954635	2.5
-20	4.33	0.001708087	2.5
-10	-4.18	0.001648915	2.5
0	2.69	0.001061144	2.5
10	-3.75	0.00147929	2.5
20	-1.99	0.00078501	2.5
30	4.08	0.001609467	2.5
40	3.94	0.001554241	2.5
50	-3.74	0.001475345	2.5
Max. Deviation (ppm)	<b>4.33</b>	<b>0.001708087</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	1.58	0.000623274	2.5
5	2.64	0.00104142	2.5
5.5	3.08	0.00121499	2.5
Max. Deviation (ppm)	<b>3.08</b>	<b>0.00121499</b>	2.5

Test Mode:	LTE Band 7_CH21100_10M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.88	0.001136095	2.5
-20	3.64	0.001435897	2.5
-10	-2.87	0.00113215	2.5
0	4.29	0.001692308	2.5
10	2.69	0.001061144	2.5
20	-1.47	0.000579882	2.5
30	1.74	0.000686391	2.5
40	-2.91	0.001147929	2.5
50	3.06	0.001207101	2.5
Max. Deviation (ppm)	<b>4.29</b>	<b>0.001692308</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	2.47	0.000974359	2.5
5	2.91	0.001147929	2.5
5.5	-3.24	0.001278107	2.5
Max. Deviation (ppm)	<b>3.24</b>	<b>0.001278107</b>	2.5

Test Mode:	LTE Band 7_CH21100_15M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.49	0.000982249	2.5
-20	-2.68	0.001057199	2.5
-10	3.48	0.001372781	2.5
0	1.67	0.000658777	2.5
10	3.61	0.001424063	2.5
20	-2.44	0.000962525	2.5
30	-2.97	0.001171598	2.5
40	3.03	0.001195266	2.5
50	-3.12	0.001230769	2.5
Max. Deviation (ppm)	<b>3.61</b>	<b>0.001424063</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	-2.64	0.00104142	2.5
5	-3.77	0.001487179	2.5
5.5	1.94	0.000765286	2.5
Max. Deviation (ppm)	<b>3.77</b>	<b>0.001487179</b>	2.5

Test Mode:	LTE Band 7_CH21100_20M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-2.12	0.000836292	2.5
-20	-3.21	0.001266272	2.5
-10	1.98	0.000781065	2.5
0	3.77	0.001487179	2.5
10	-4.06	0.001601578	2.5
20	2.39	0.000942801	2.5
30	-3.81	0.001502959	2.5
40	-4.17	0.00164497	2.5
50	3.46	0.001364892	2.5
Max. Deviation (ppm)	<b>4.17</b>	<b>0.00164497</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	3.24	0.001278107	2.5
5	-3.46	0.001364892	2.5
5.5	2.91	0.001147929	2.5
Max. Deviation (ppm)	<b>3.46</b>	<b>0.001364892</b>	2.5

Test Mode:	LTE Band 12_CH23095_5M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.73	0.00244523	2.5
-20	-2.39	0.003378092	2.5
-10	3.15	0.004452297	2.5
0	2.93	0.004141343	2.5
10	-2.63	0.003717314	2.5
20	3.37	0.004763251	2.5
30	2.85	0.004028269	2.5
40	2.55	0.00360424	2.5
50	3.55	0.005017668	2.5
Max. Deviation (ppm)	<b>3.55</b>	<b>0.005017668</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	-1.88	0.002657244	2.5
5	2.07	0.002925795	2.5
5.5	-3.11	0.00439576	2.5
Max. Deviation (ppm)	<b>3.11</b>	<b>0.00439576</b>	2.5

Test Mode:	LTE Band 12_CH23095_10M
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### Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	1.82	0.002572438	2.5
-20	2.54	0.003590106	2.5
-10	-3.37	0.004763251	2.5
0	-2.91	0.004113074	2.5
10	-3.49	0.004932862	2.5
20	3.52	0.004975265	2.5
30	2.64	0.003731449	2.5
40	1.73	0.00244523	2.5
50	2.37	0.003349823	2.5
Max. Deviation (ppm)	<b>3.52</b>	<b>0.004975265</b>	2.5

### Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.5	2.11	0.002982332	2.5
5	-2.82	0.003985866	2.5
5.5	1.68	0.002374558	2.5
Max. Deviation (ppm)	<b>2.82</b>	<b>0.003985866</b>	2.5