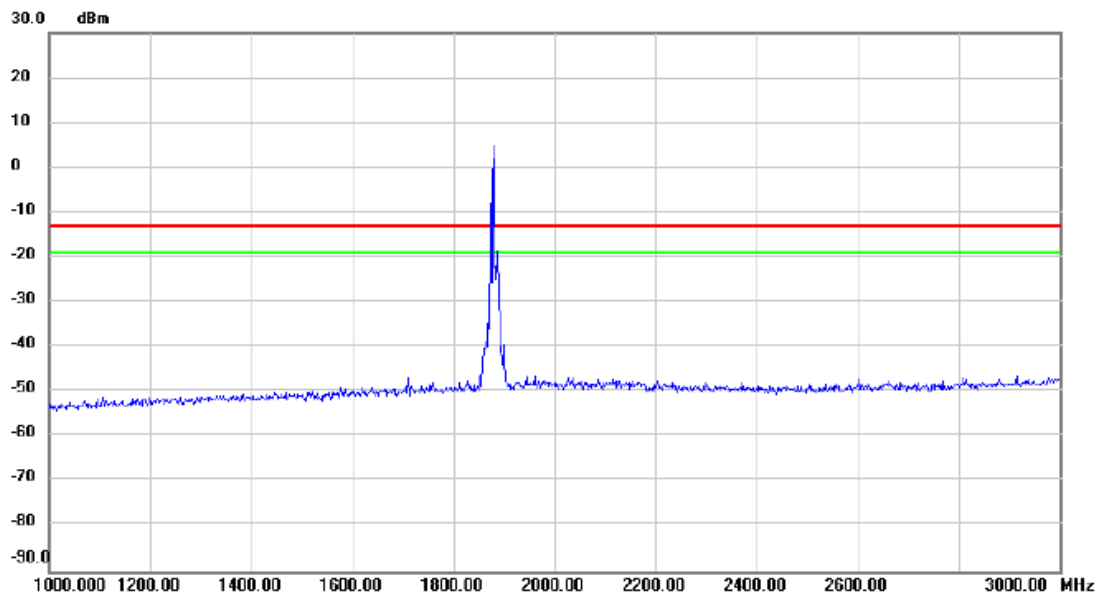


APPENDIX F - RADIATED EMISSION (ABOVE 1GHZ)

Test Mode: PCS1900_TX CH661_GSM

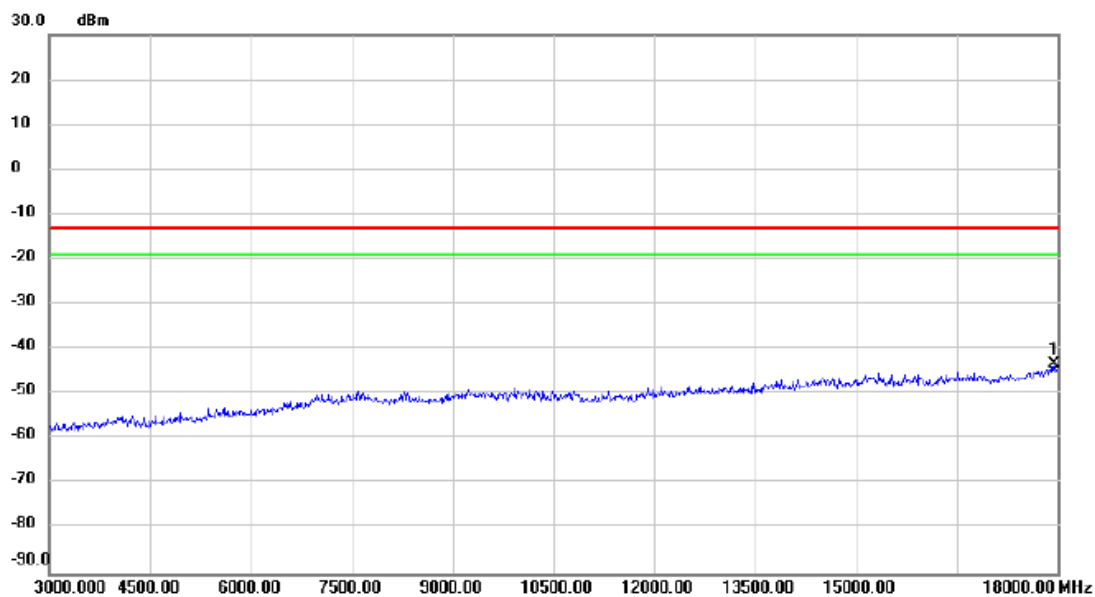
Vertical



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

Test Mode: PCS1900_TX CH661_GSM

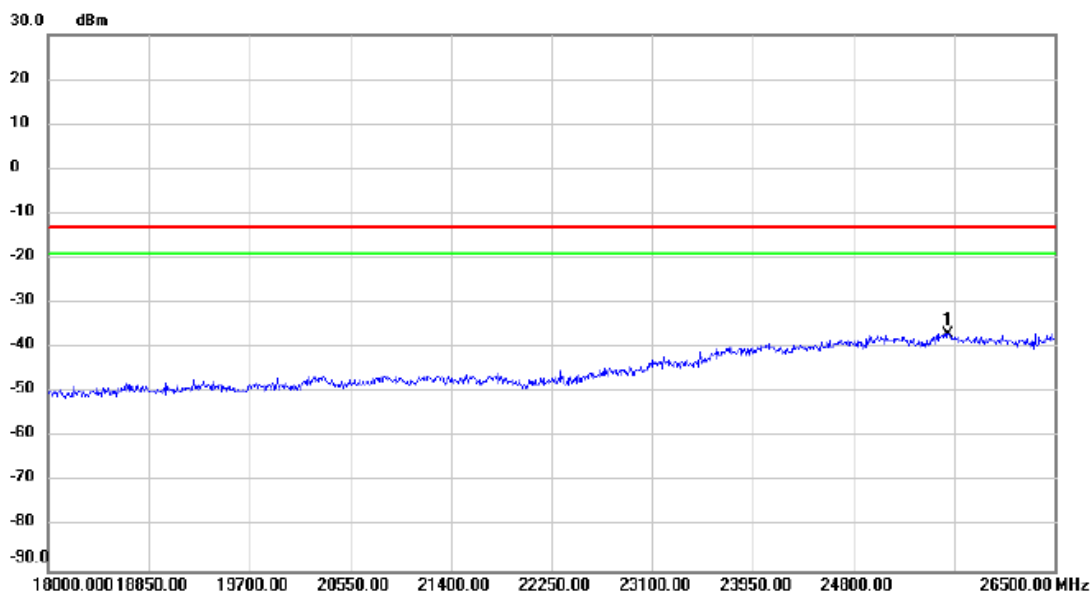
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17955.00	-74.42	31.00	-43.42	-13.00	-30.42	peak	

Test Mode: PCS1900_TX CH661_GSM

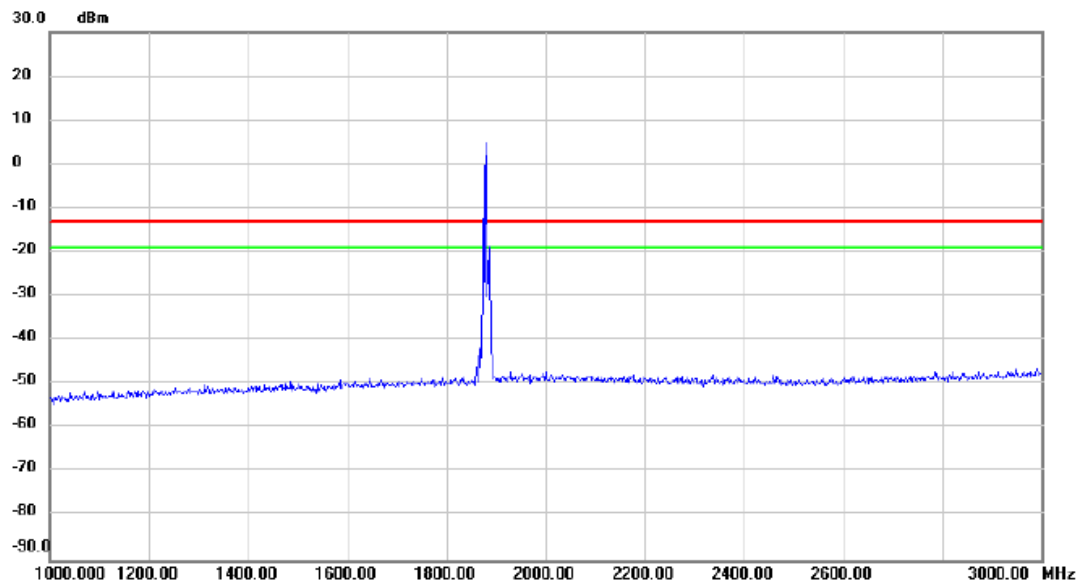
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25599.00	-63.69	26.73	-36.96	-13.00	-23.96	peak	

Test Mode: PCS1900_TX CH661_GSM

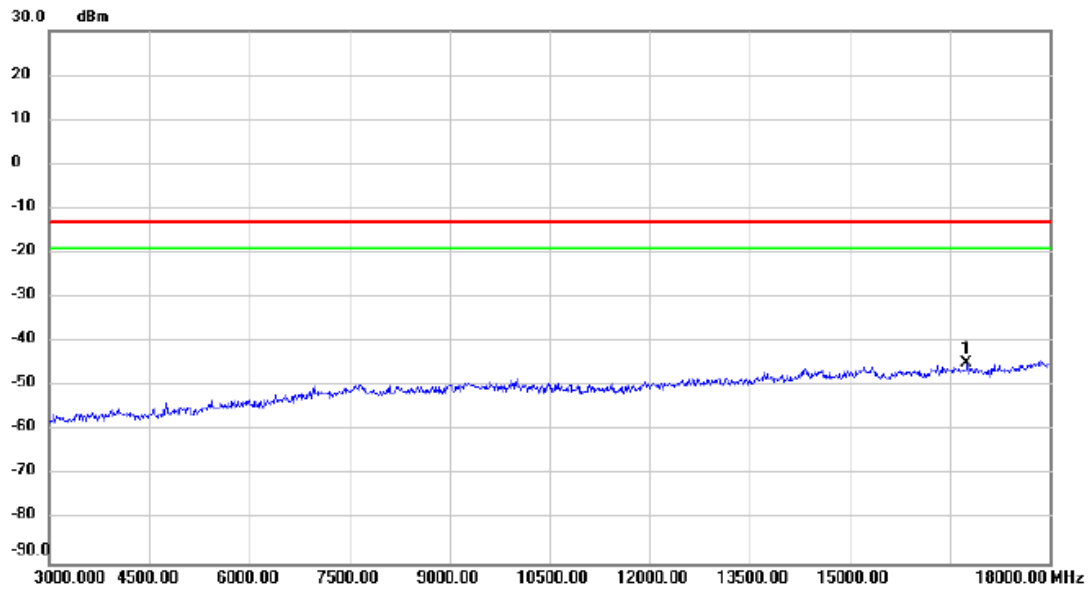
Horizontal



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

Test Mode: PCS1900_TX CH661_GSM

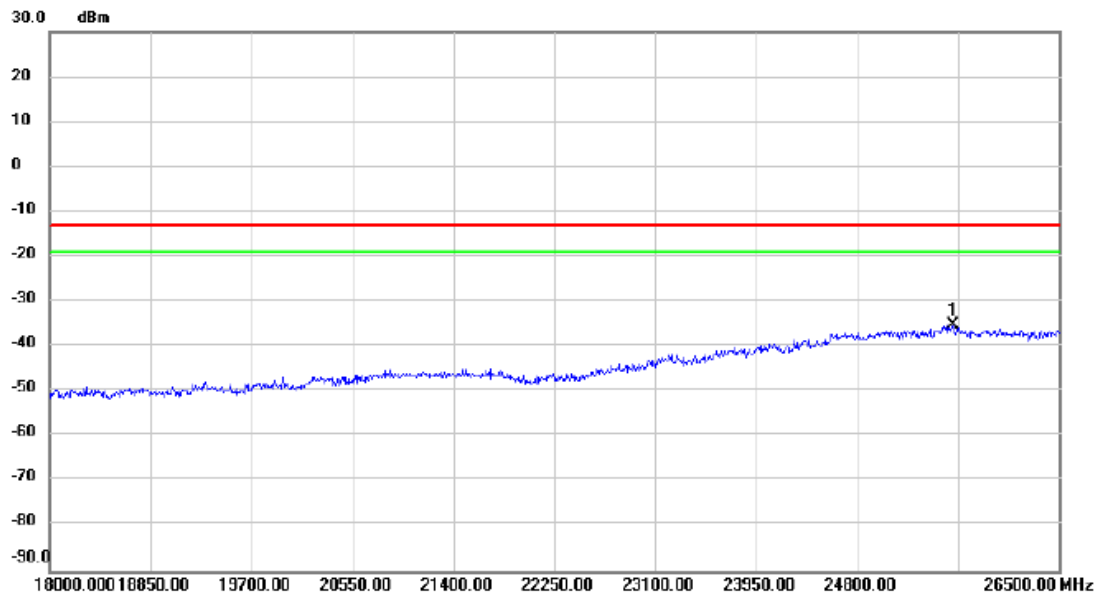
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16755.00	-72.78	28.01	-44.77	-13.00	-31.77	peak	

Test Mode: PCS1900_TX CH661_GSM

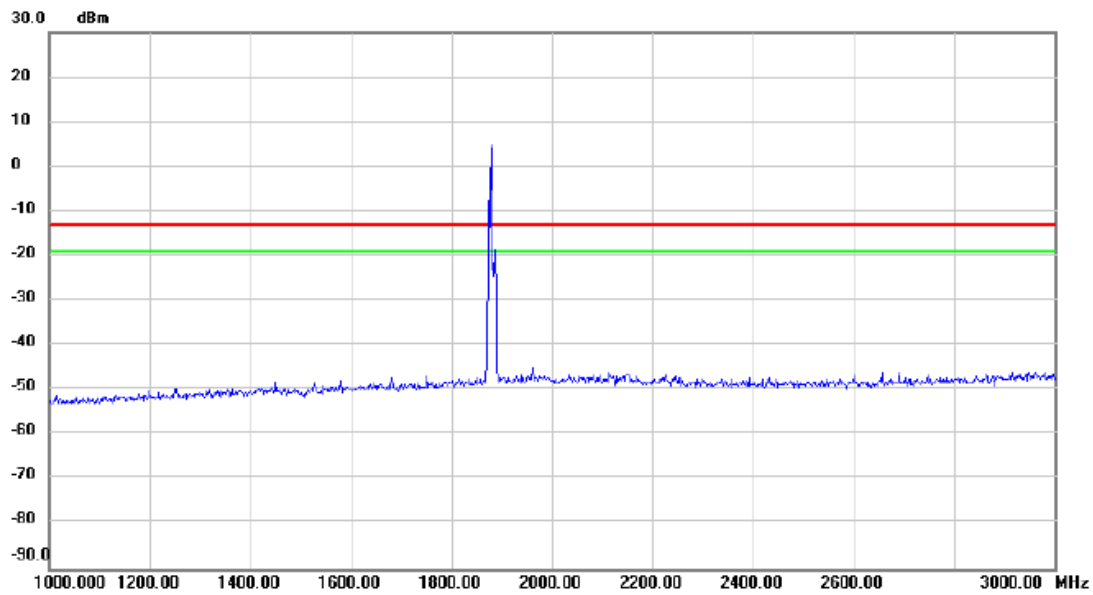
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25607.50	-62.10	26.73	-35.37	-13.00	-22.37	peak	

Test Mode: PCS1900_TX CH661_EDGE

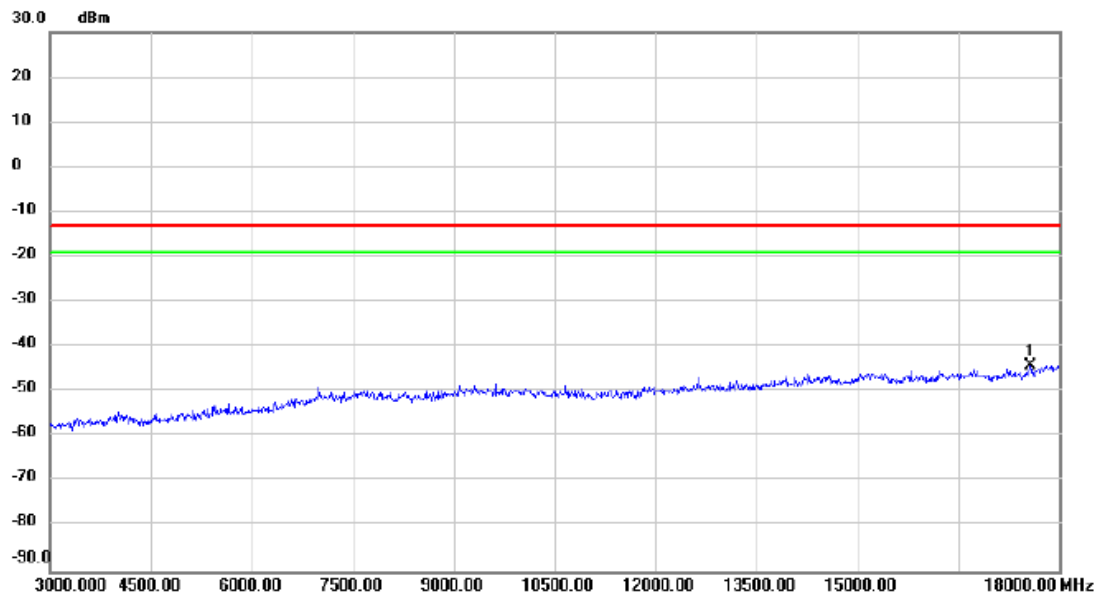
Vertical



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

Test Mode: PCS1900_TX CH661_EDGE

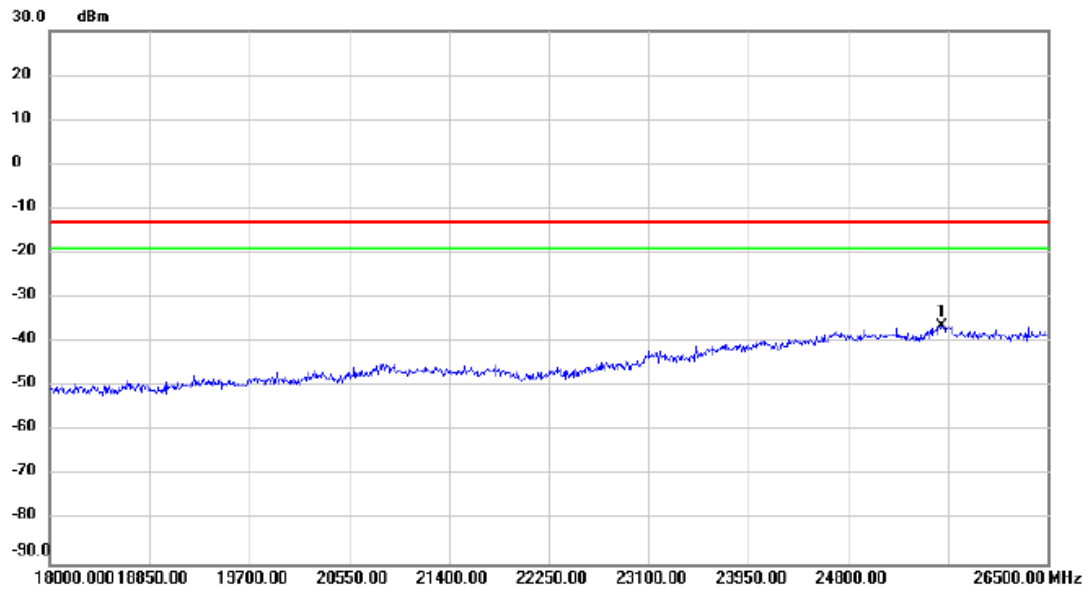
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17565.00	-74.12	29.99	-44.13	-13.00	-31.13	peak	

Test Mode: PCS1900_TX CH661_EDGE

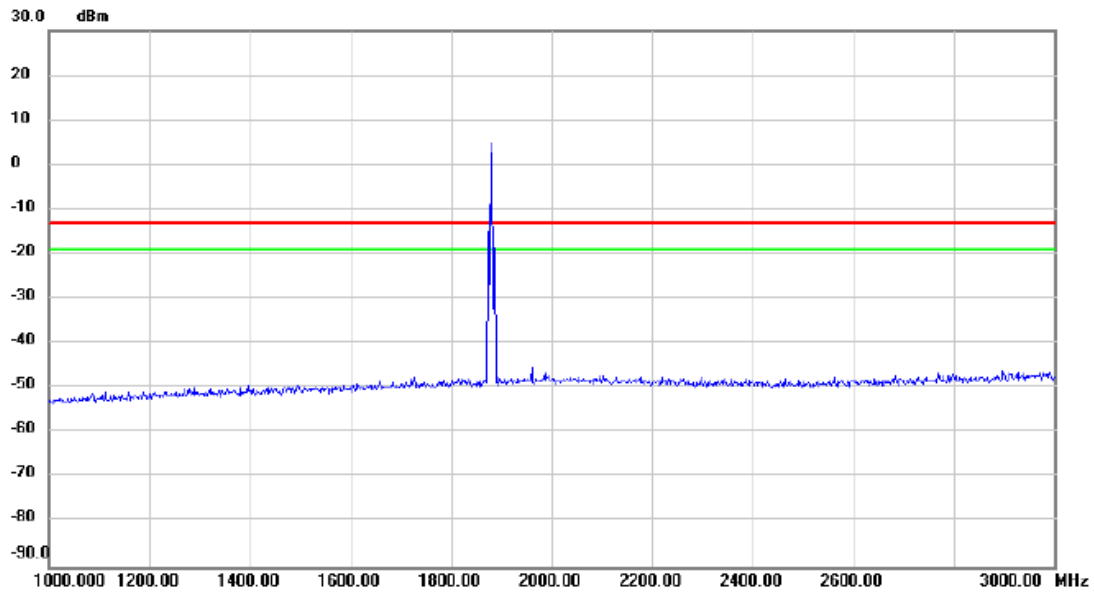
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25599.00	-63.19	26.73	-36.46	-13.00	-23.46	peak	

Test Mode: PCS1900_TX CH661_EDGE

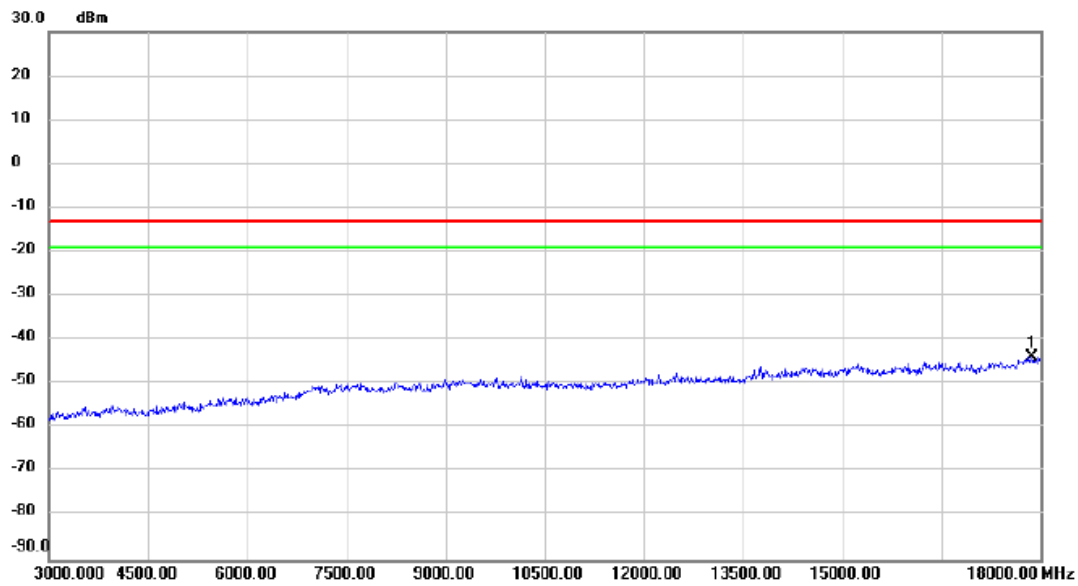
Horizontal



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

Test Mode: PCS1900_TX CH661_EDGE

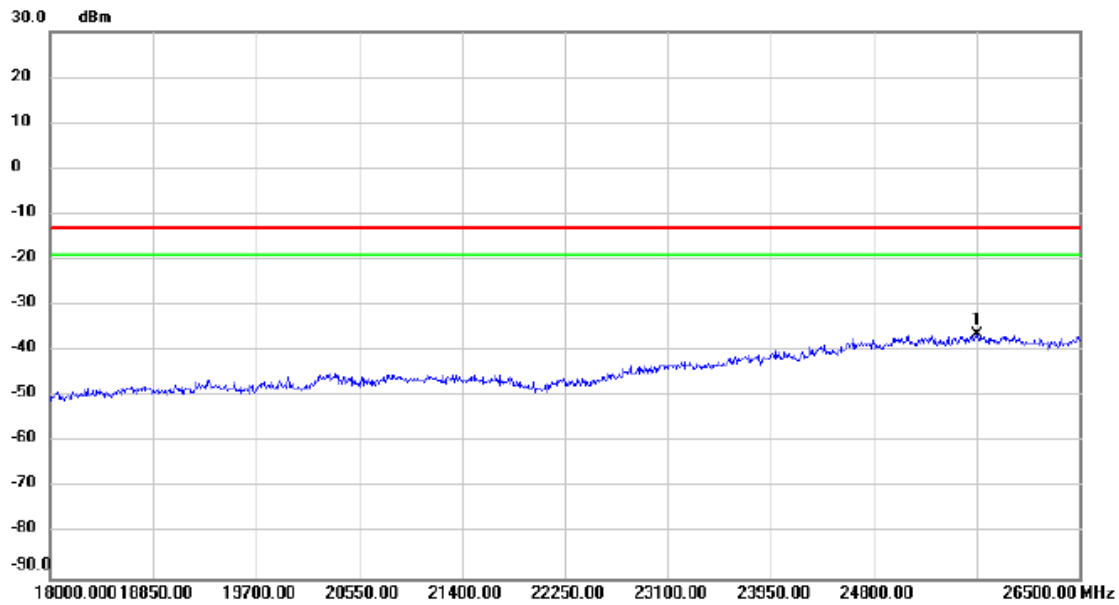
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17872.50	-74.63	30.78	-43.85	-13.00	-30.85	peak	

Test Mode: PCS1900_TX CH661_EDGE

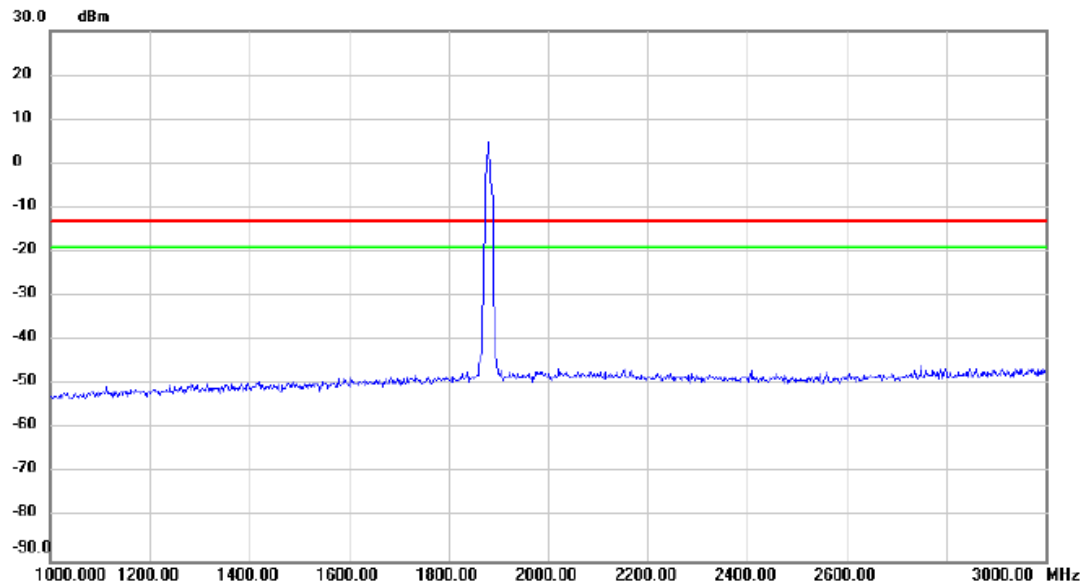
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25650.00	-63.05	26.74	-36.31	-13.00	-23.31	peak	

Test Mode: WCDMA Band II_TX CH9400

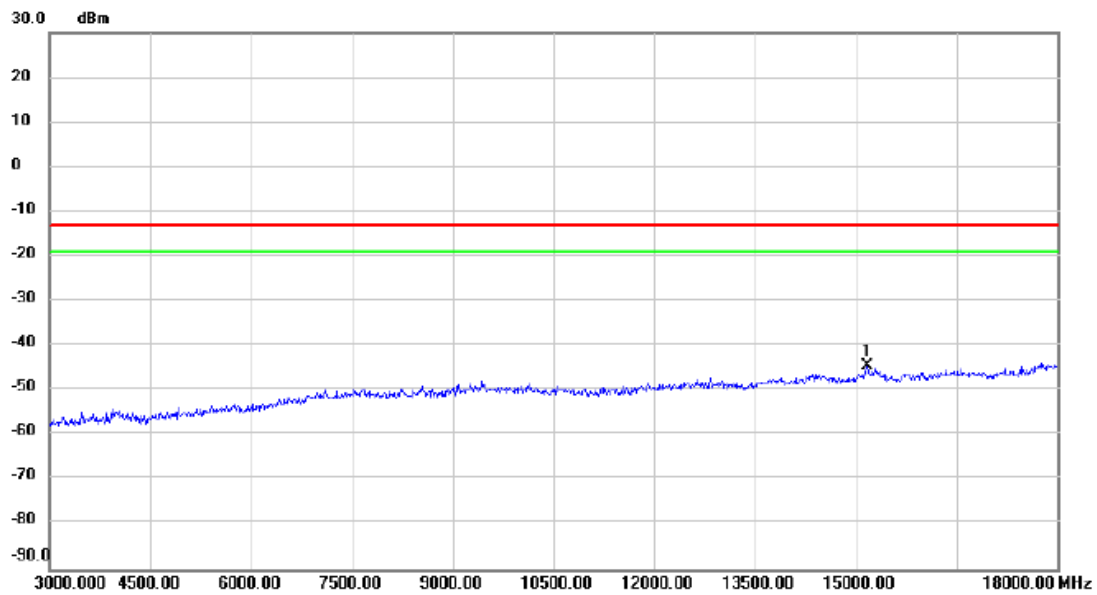
Vertical



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

Test Mode: WCDMA Band II_TX CH9400

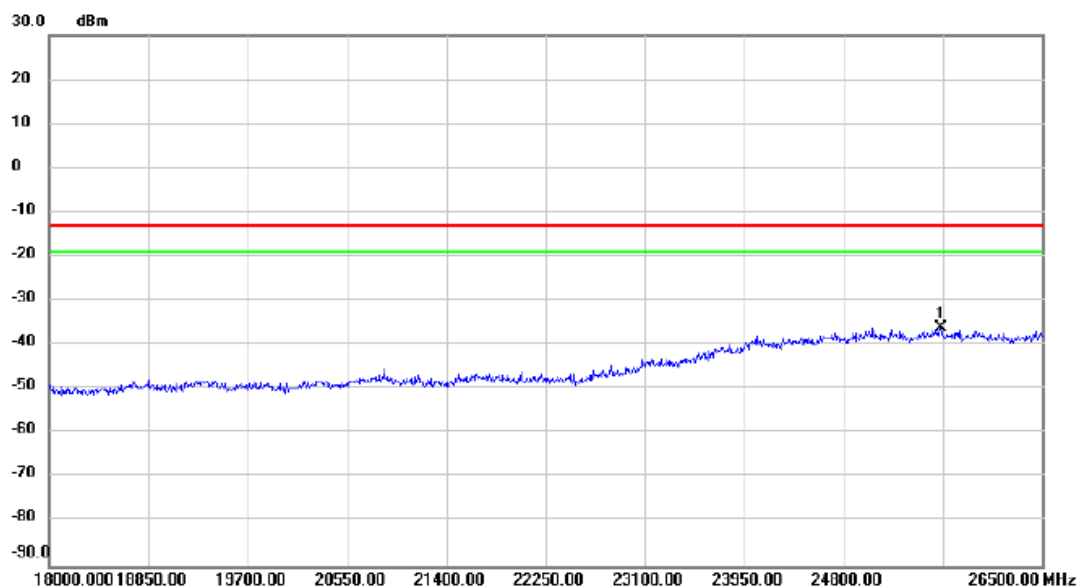
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	15165.00	-71.81	27.25	-44.56	-13.00	-31.56	peak	

Test Mode: WCDMA Band II_TX CH9400

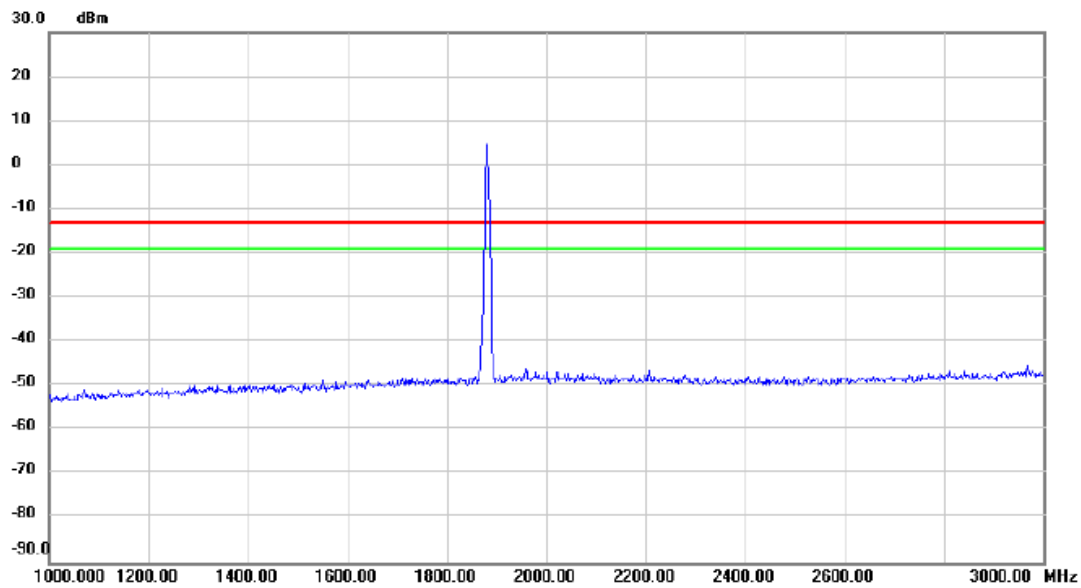
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25633.00	-62.99	26.74	-36.25	-13.00	-23.25	peak	

Test Mode: WCDMA Band II_TX CH9400

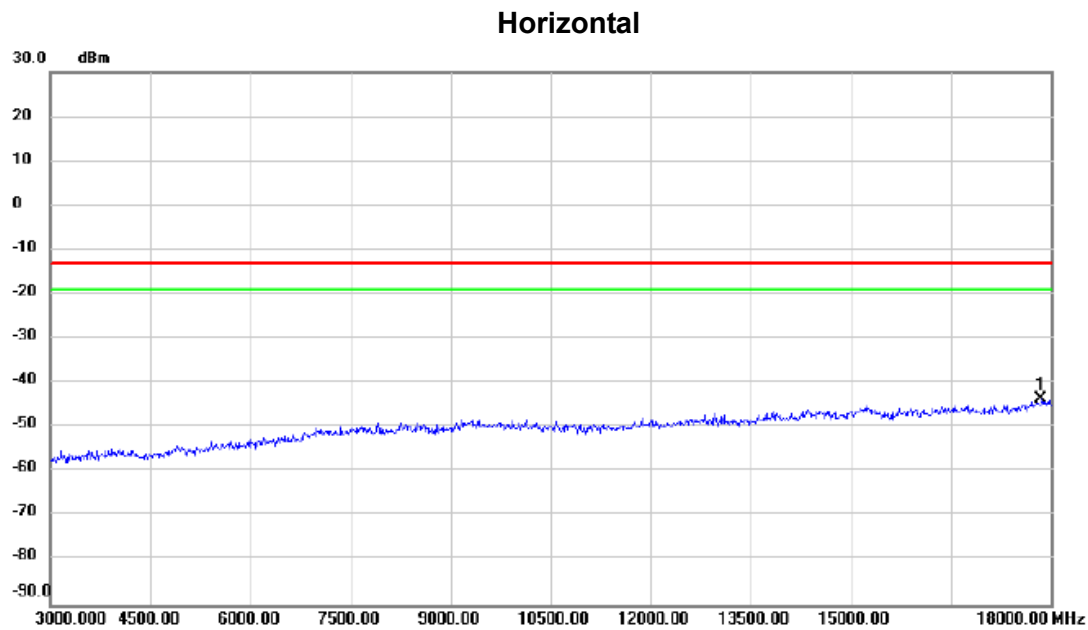
Horizontal



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

Test Mode:

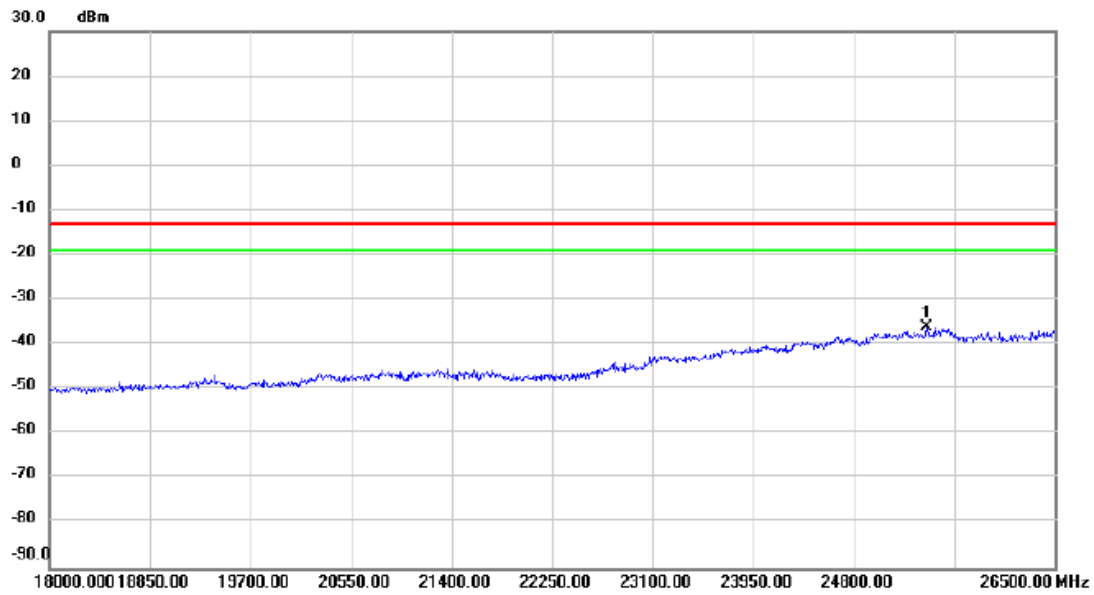
WCDMA Band II_TX CH9400



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	17857.50	-74.50	30.74	-43.76	-13.00	-30.76	peak	

Test Mode: WCDMA Band II_TX CH9400

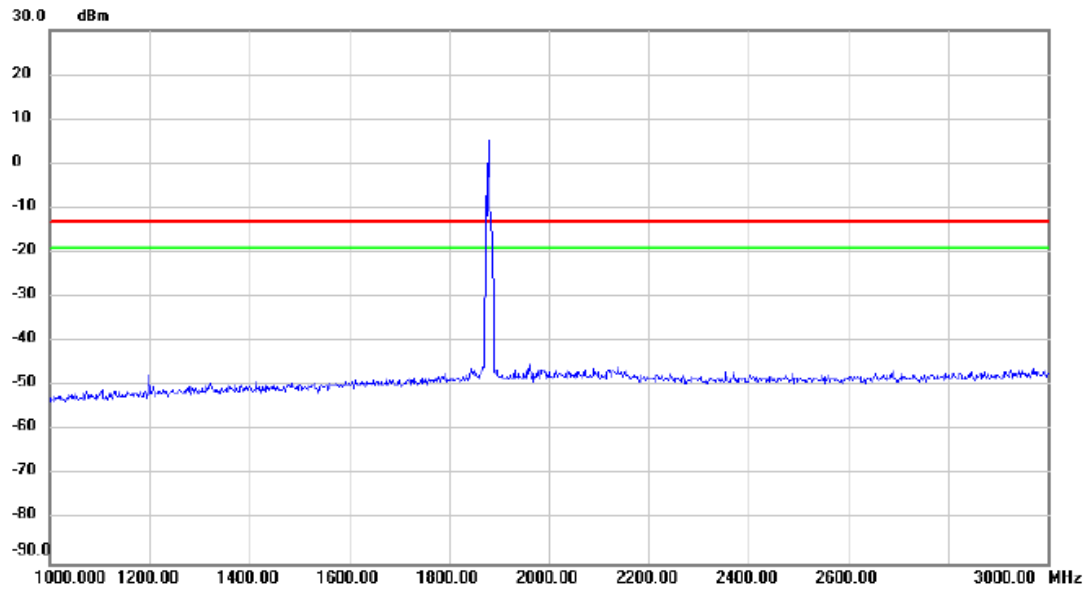
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25420.50	-62.85	26.67	-36.18	-13.00	-23.18	peak	

Test Mode: LTE Band 2_TX CH18900_1.4M

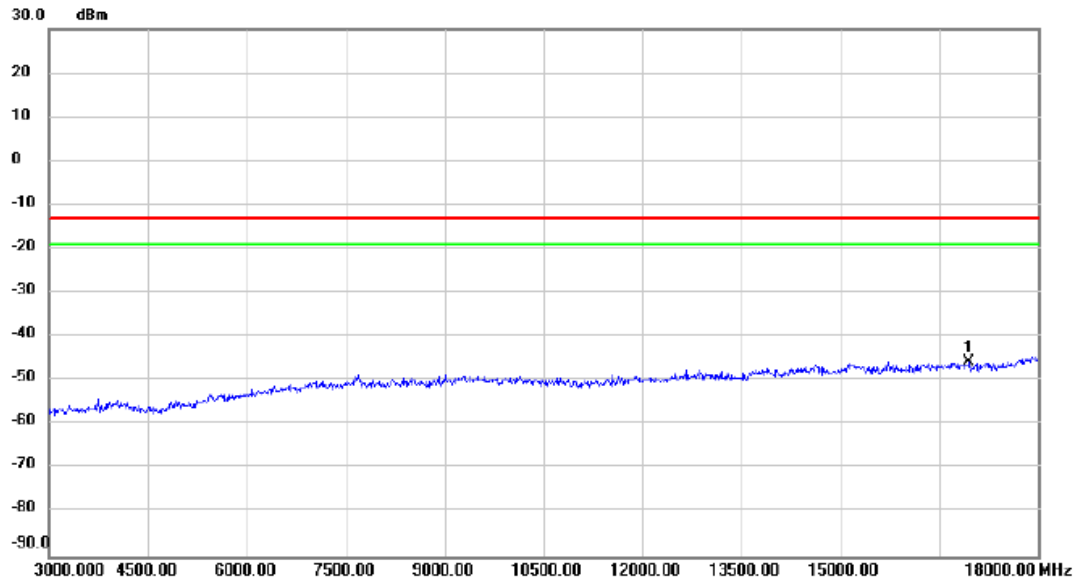
Vertical



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

Test Mode: LTE Band 2_TX CH18900_1.4M

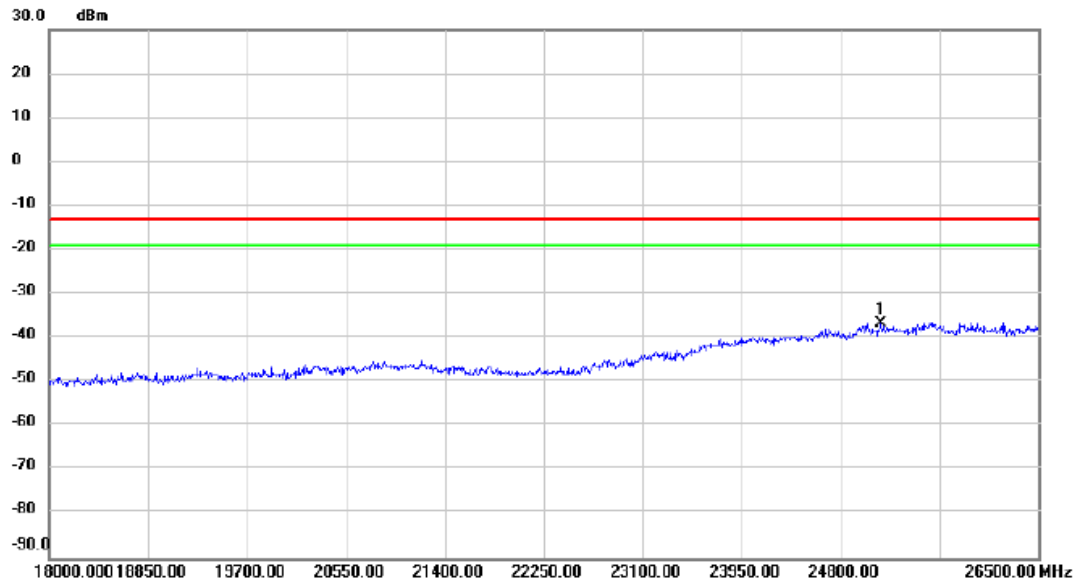
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16950.00	-74.00	28.27	-45.73	-13.00	-32.73	peak	

Test Mode: LTE Band 2_TX CH18900_1.4M

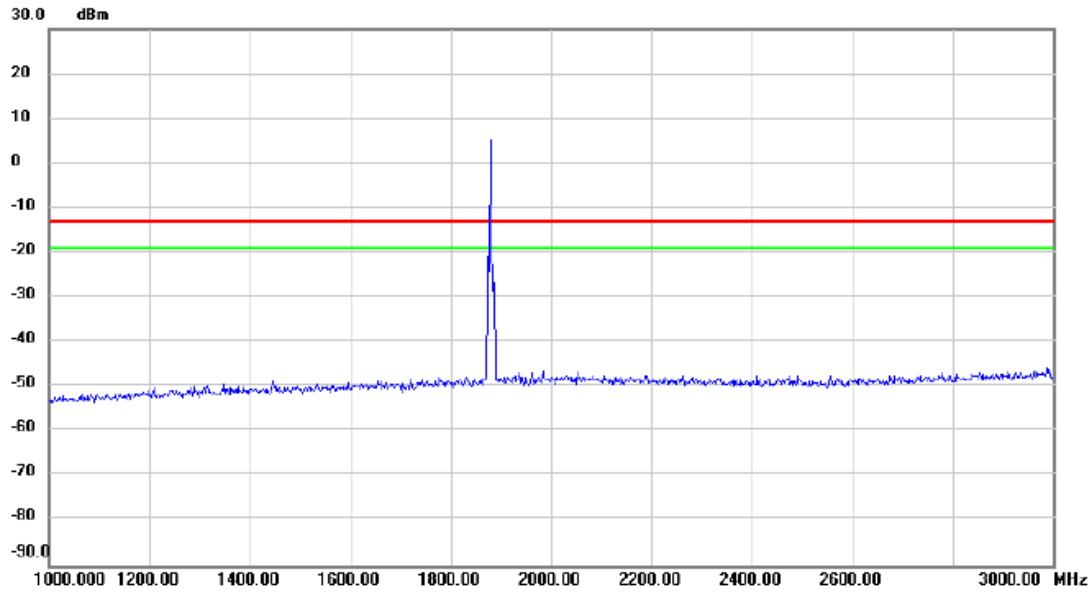
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25148.50	-63.22	26.59	-36.63	-13.00	-23.63	peak	

Test Mode: LTE Band 2_TX CH18900_1.4M

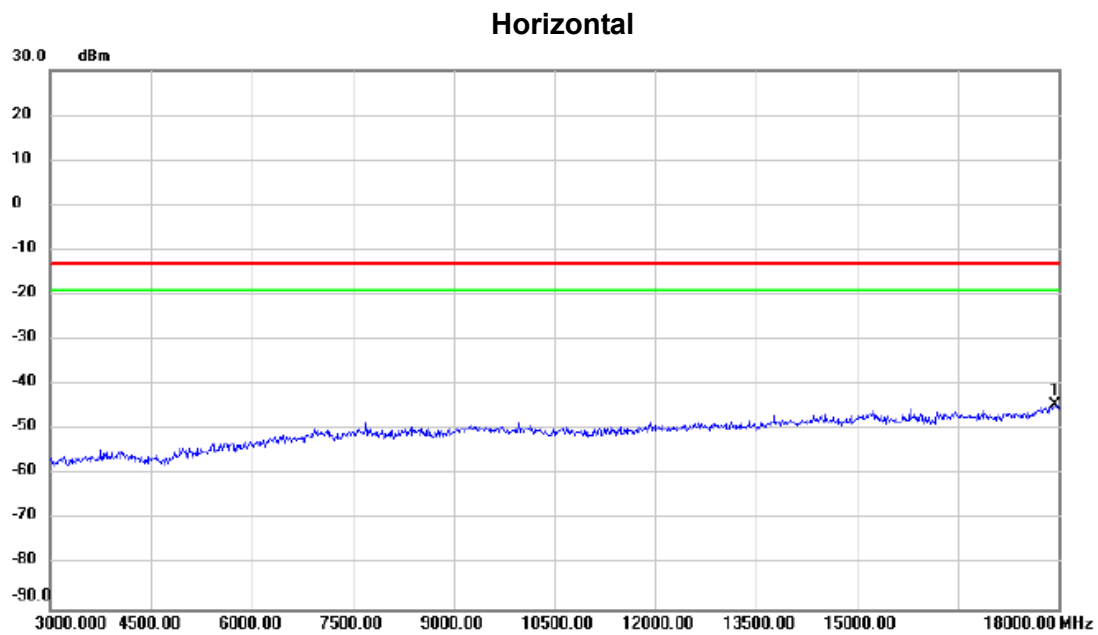
Horizontal



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

Test Mode:

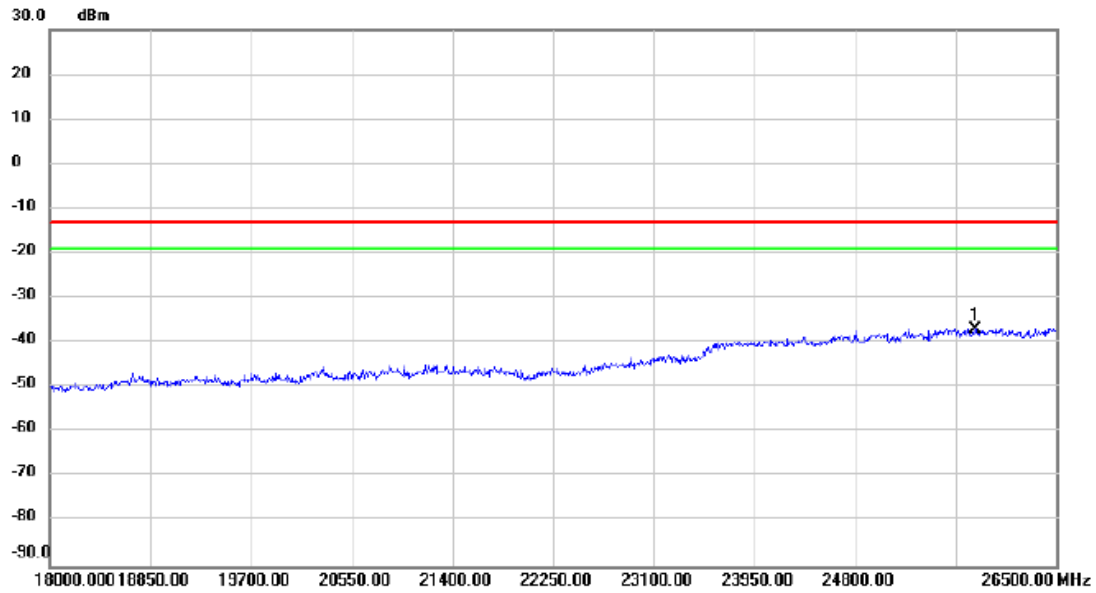
LTE Band 2_TX CH18900_1.4M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17955.00	-75.43	31.00	-44.43	-13.00	-31.43	peak	

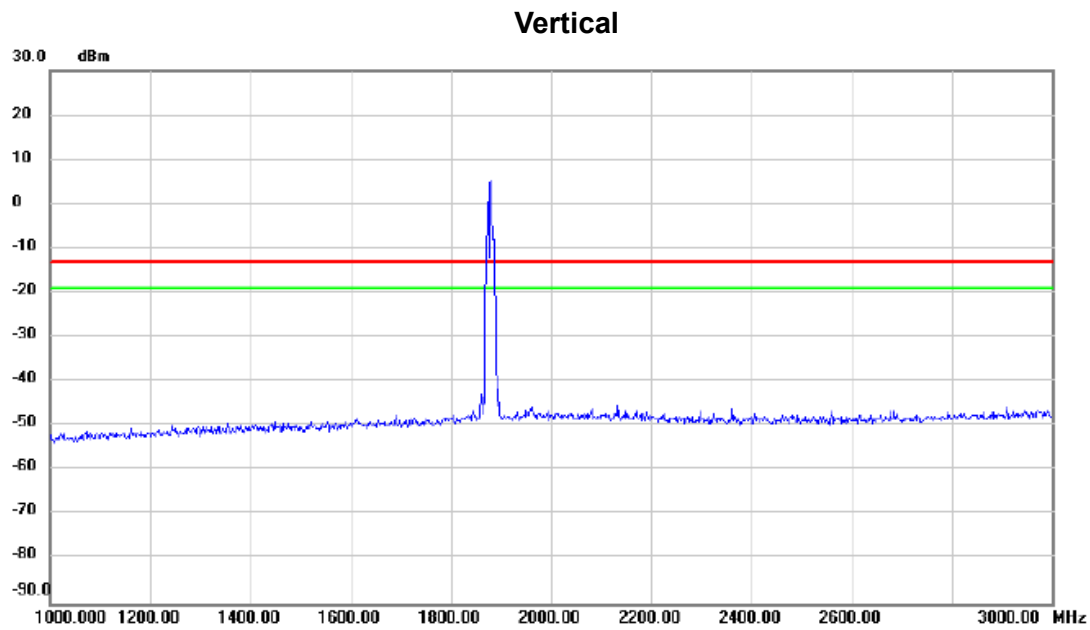
Test Mode: LTE Band 2_TX CH18900_1.4M

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25811.50	-63.72	26.79	-36.93	-13.00	-23.93	peak	

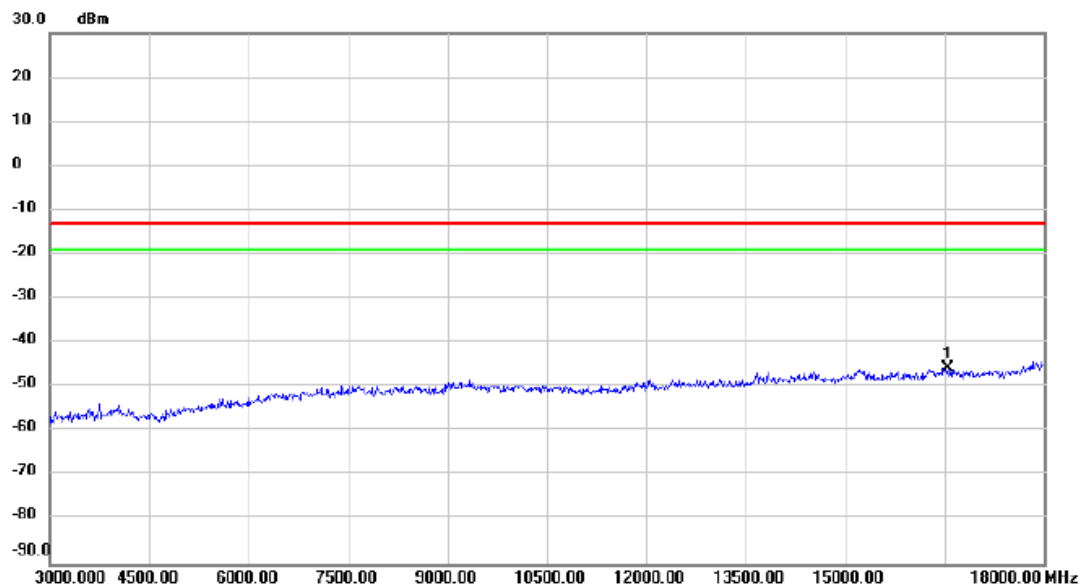
Test Mode: LTE Band 2_ TX CH18900_5M



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

Test Mode: LTE Band 2_ TX CH18900_5M

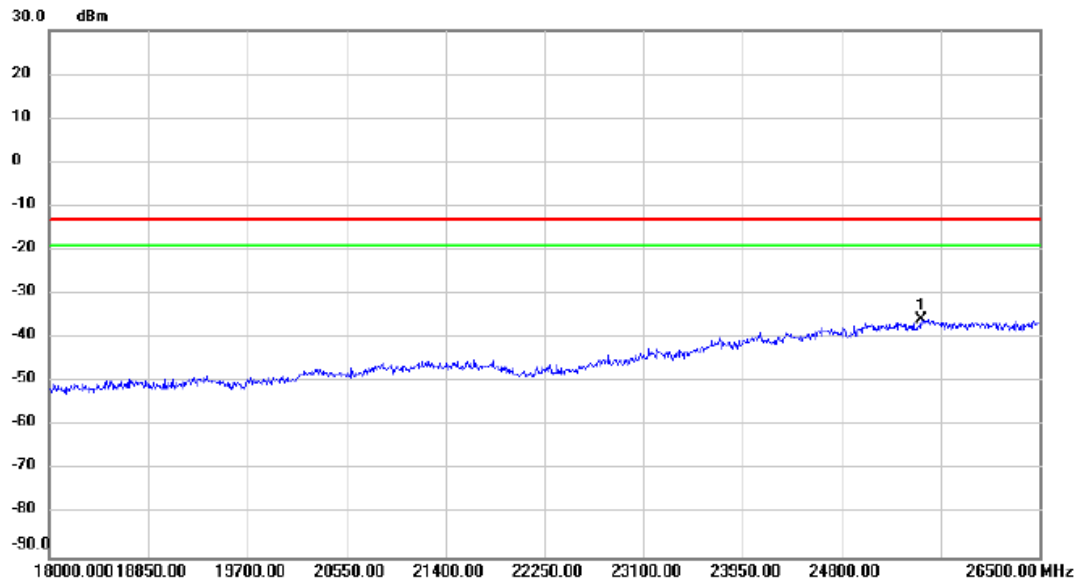
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16545.00	-73.43	27.70	-45.73	-13.00	-32.73	peak	

Test Mode: LTE Band 2_ TX CH18900_5M

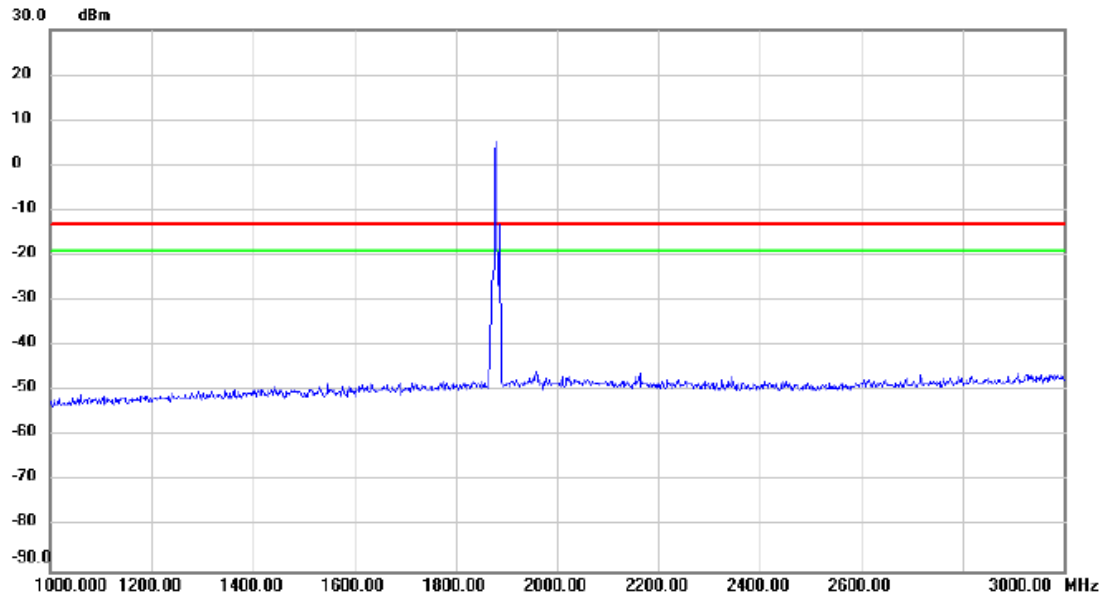
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	25480.00	-62.59	26.68	-35.91	-13.00	-22.91	peak	

Test Mode: LTE Band 2_ TX CH18900_5M

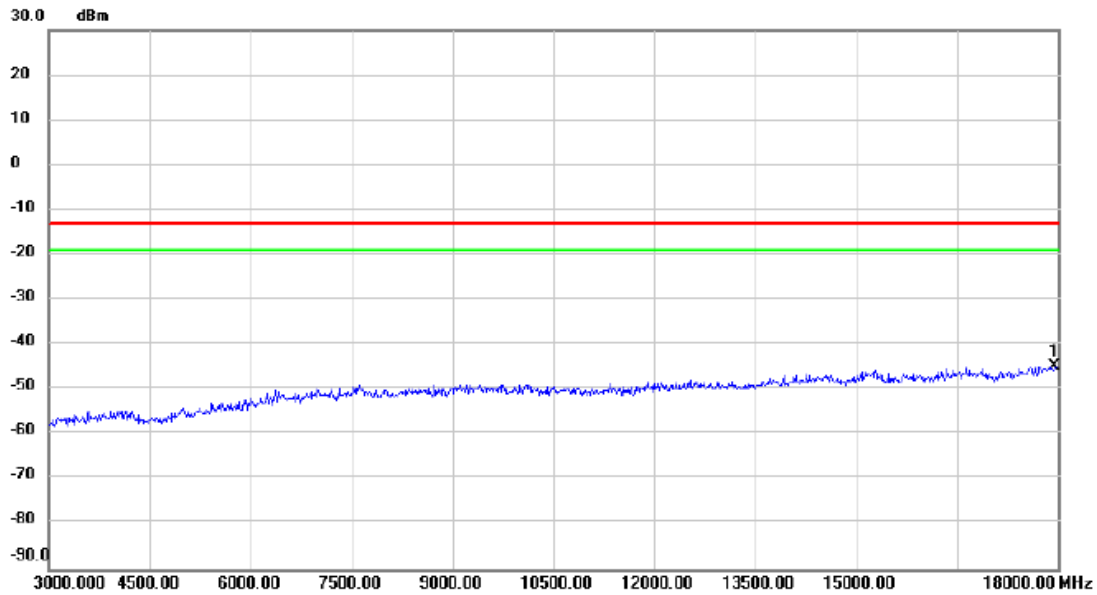
Horizontal



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

Test Mode: LTE Band 2_ TX CH18900_5M

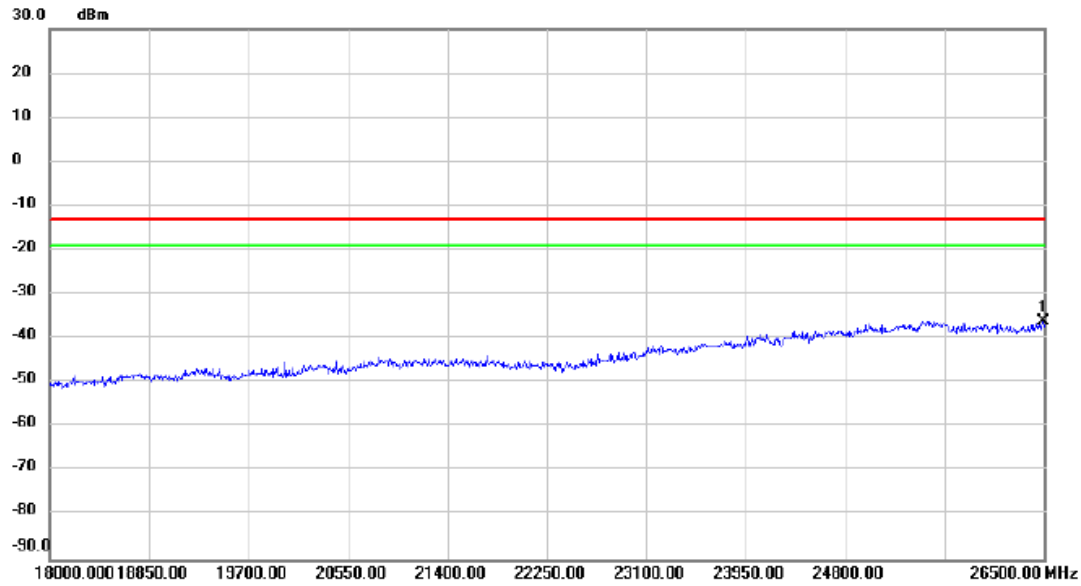
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	17955.00	-75.74	31.00	-44.74	-13.00	-31.74	peak	

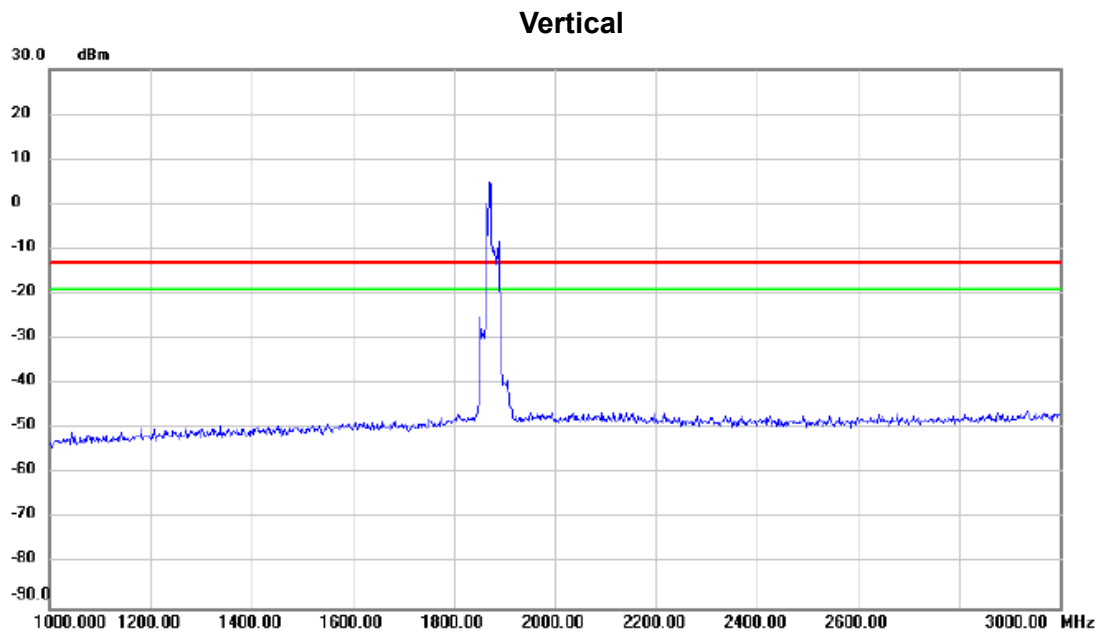
Test Mode: LTE Band 2_ TX CH18900_5M

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	26491.50	-63.25	27.24	-36.01	-13.00	-23.01	peak	

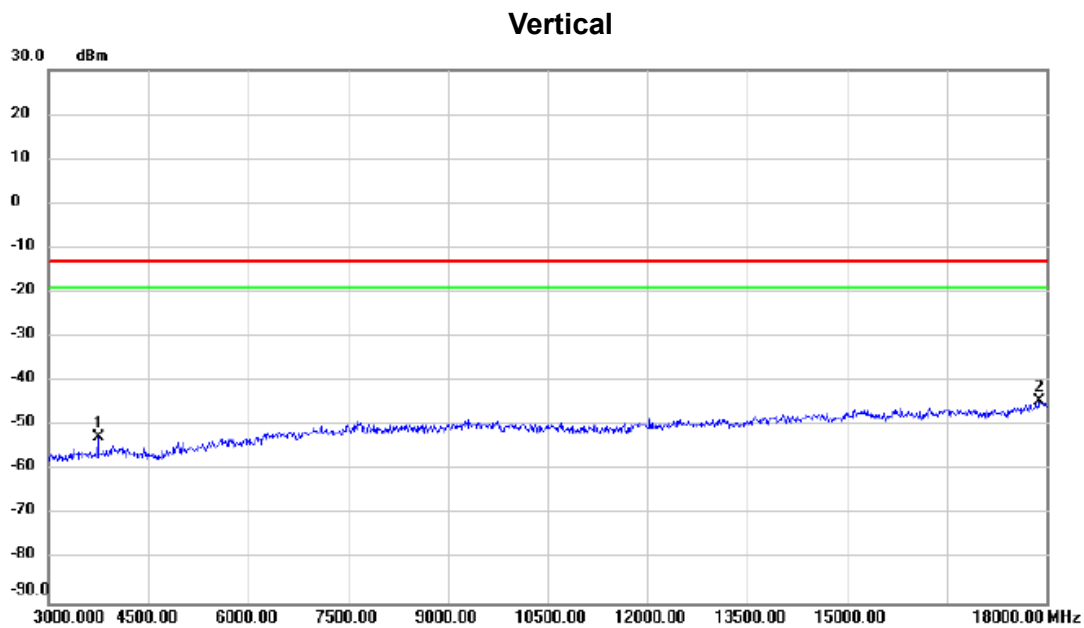
Test Mode: LTE Band 2_TX CH18900_20M



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

Test Mode:

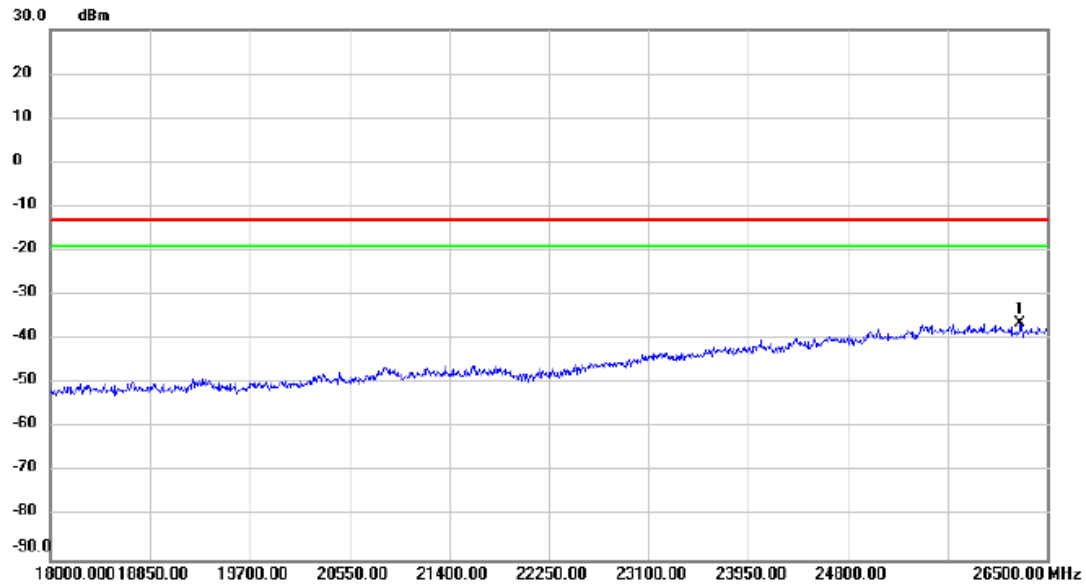
LTE Band 2_TX CH18900_20M



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		3742.500	-66.02	13.42	-52.60	-13.00	-39.60	peak	
2	*	17895.00	-75.27	30.84	-44.43	-13.00	-31.43	peak	

Test Mode: LTE Band 2_TX CH18900_20M

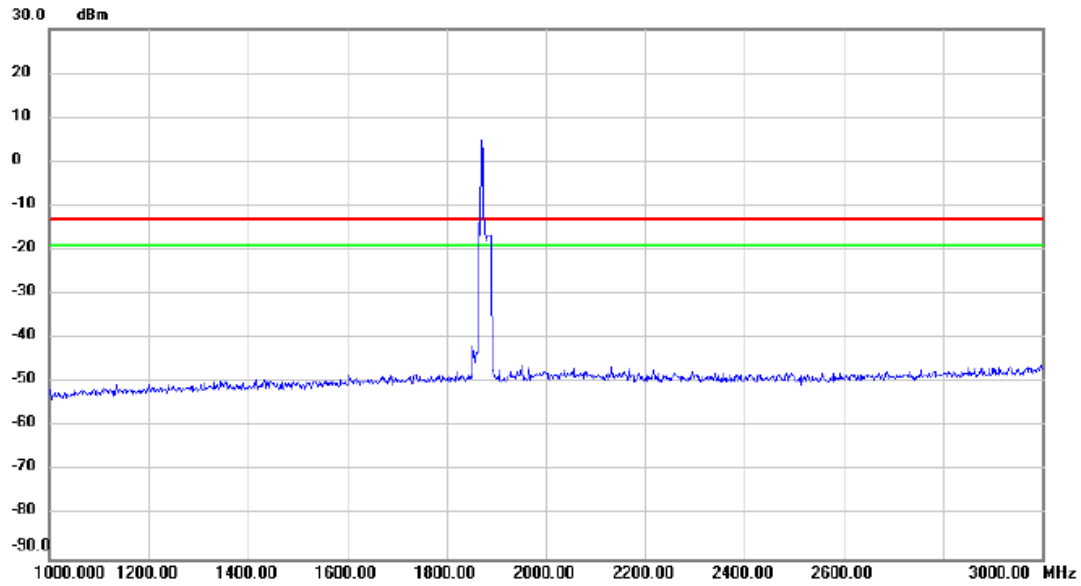
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	26270.50	-63.54	27.07	-36.47	-13.00	-23.47	peak	

Test Mode: LTE Band 2_TX CH18900_20M

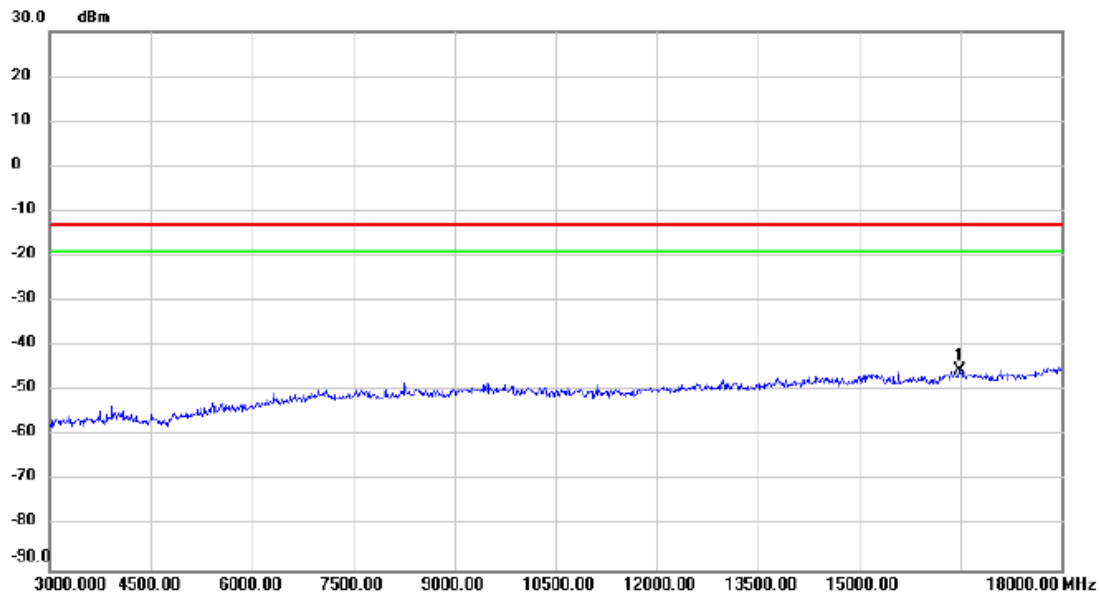
Horizontal



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

Test Mode: LTE Band 2_TX CH18900_20M

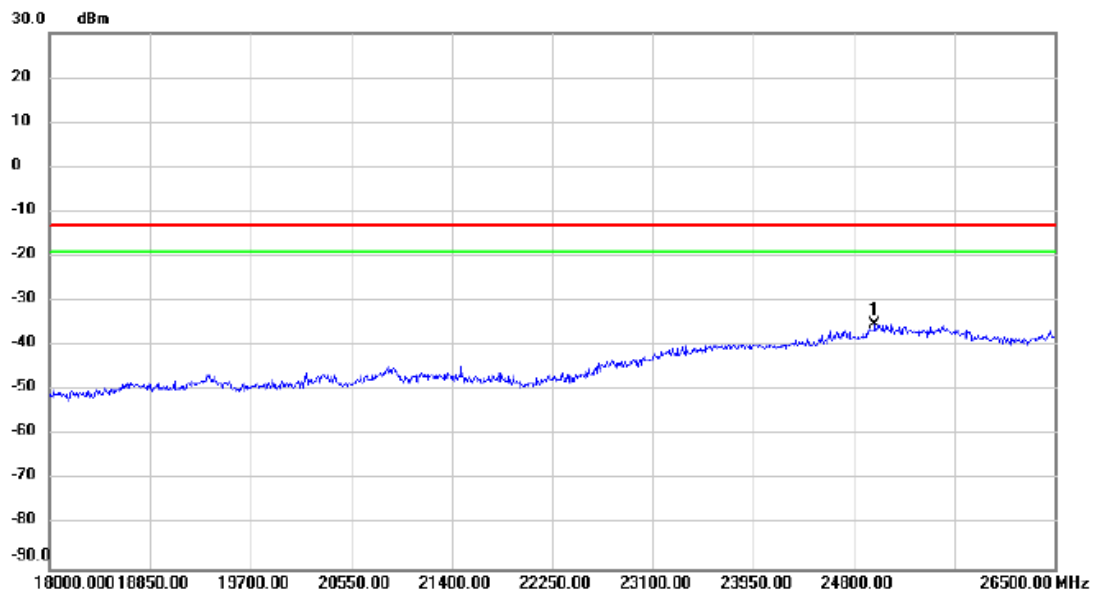
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	16485.00	-72.97	27.62	-45.35	-13.00	-32.35	peak	

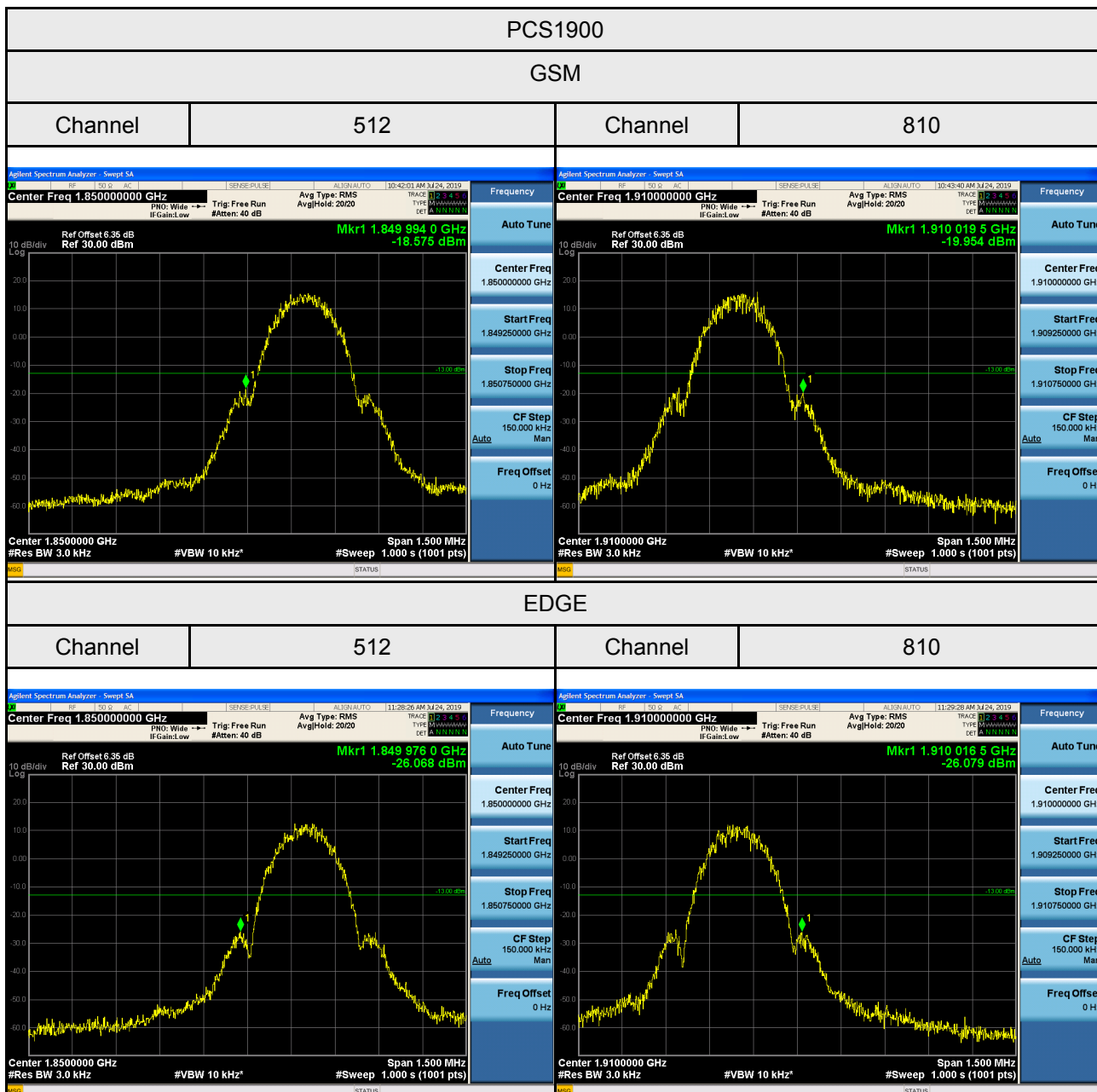
Test Mode: LTE Band 2_TX CH18900_20M

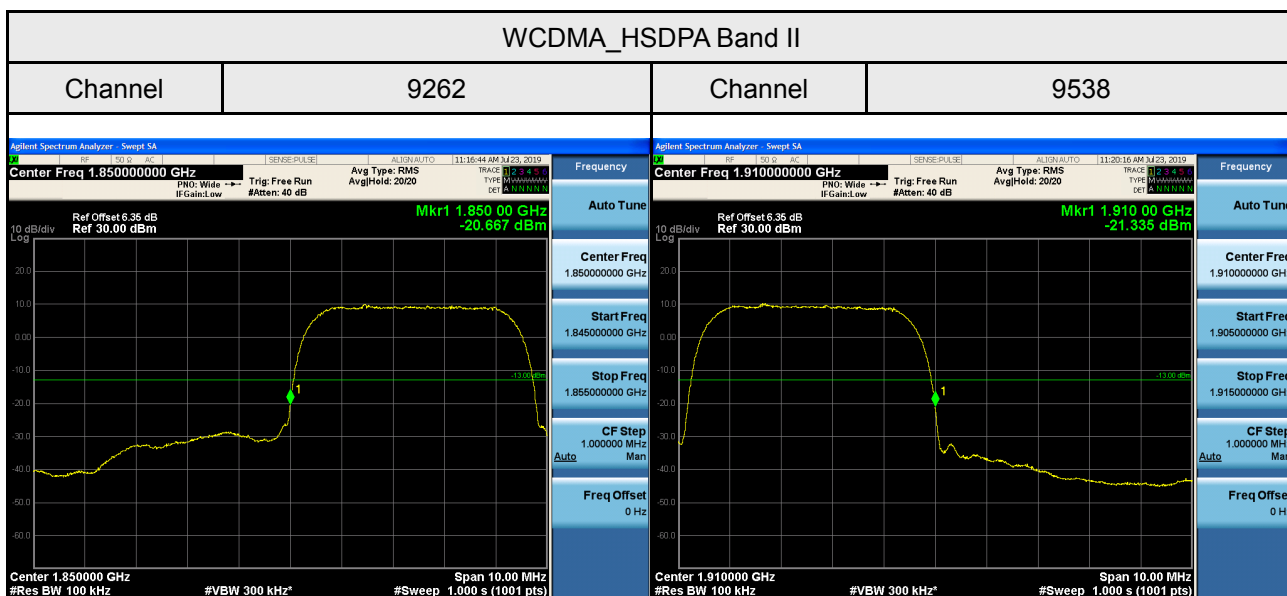
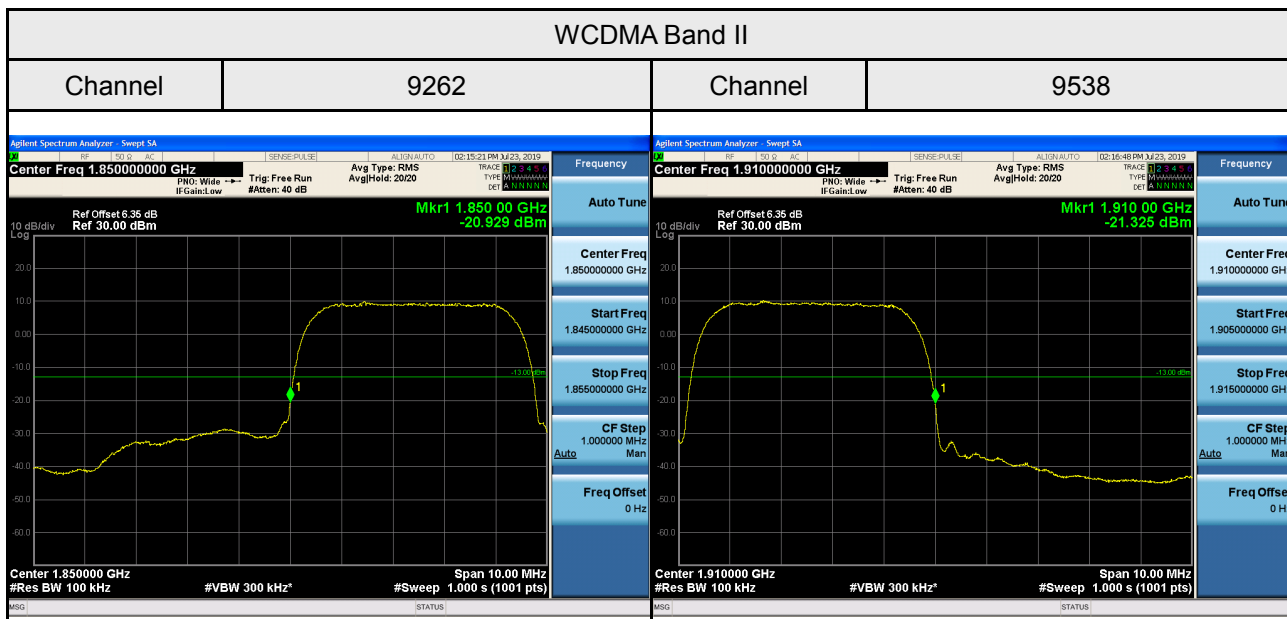
Horizontal

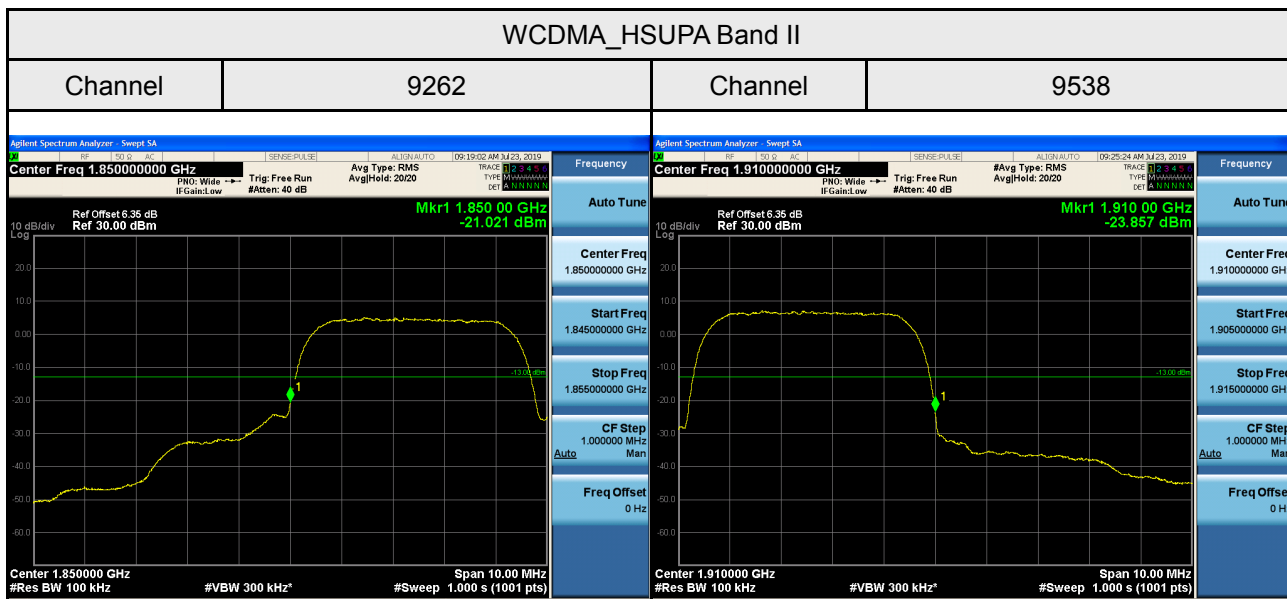


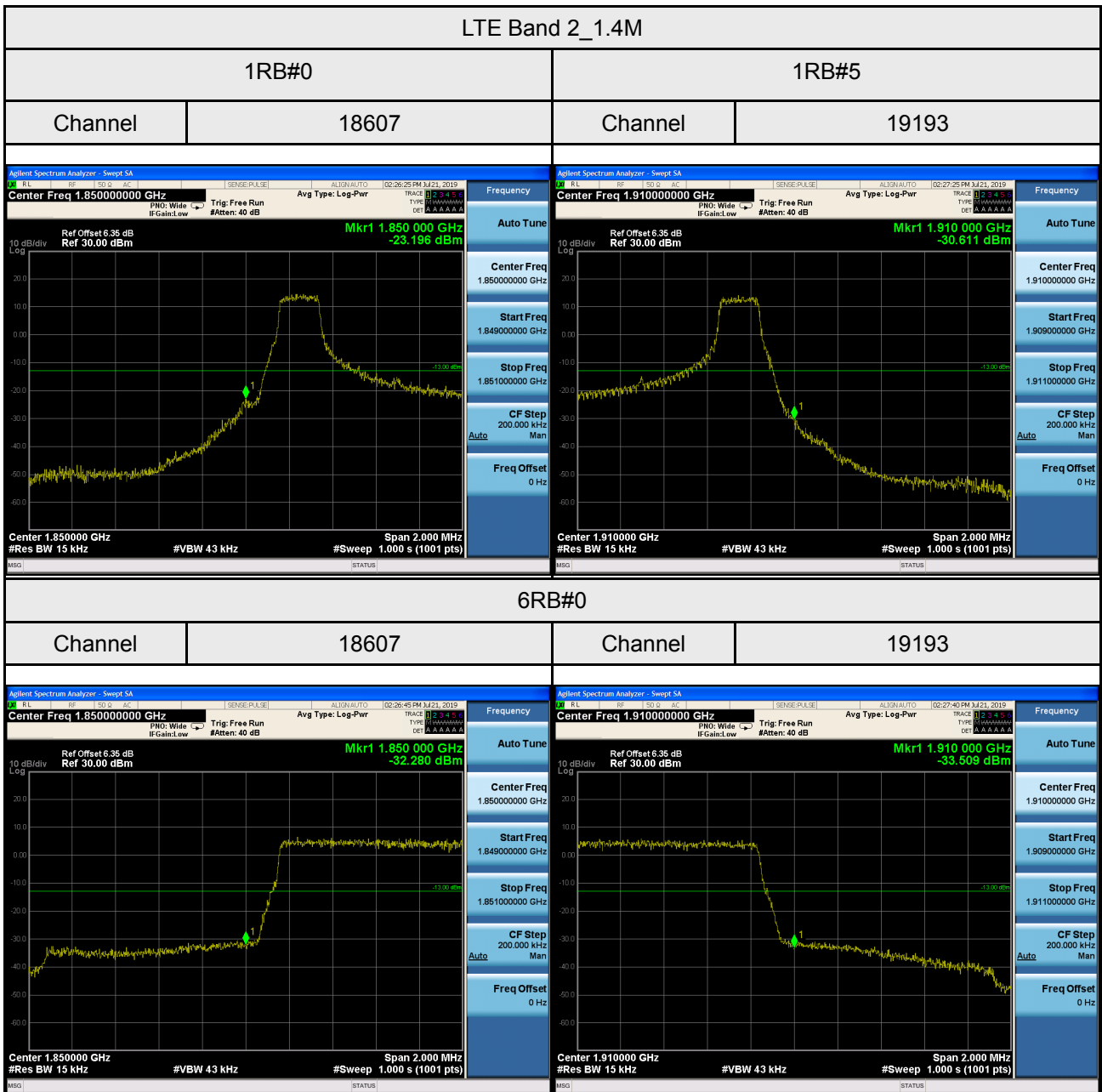
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	24978.50	-61.65	26.51	-35.14	-13.00	-22.14	peak	

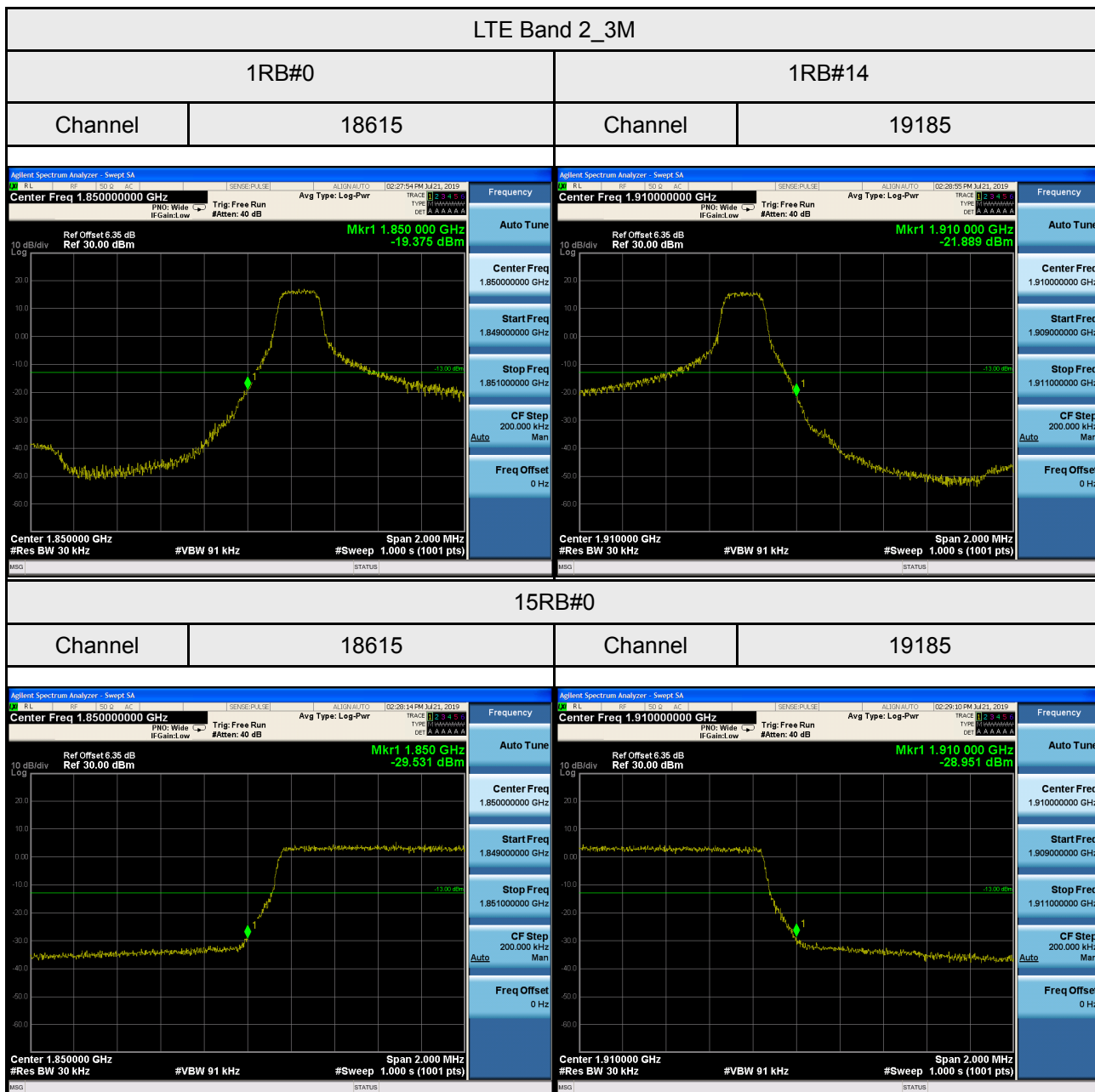
APPENDIX G - BAND EDGE

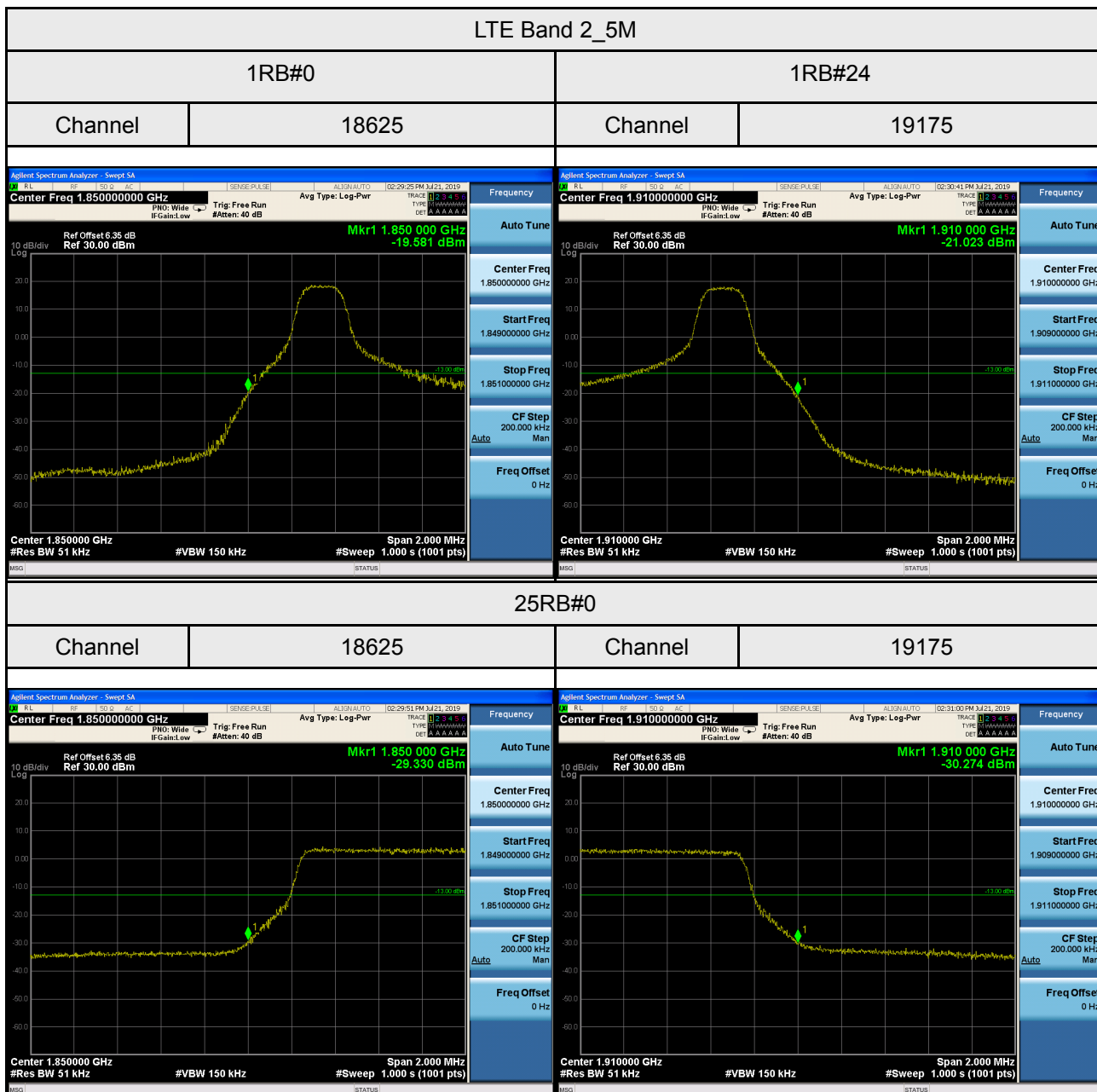












LTE Band 2_10M

1RB#0

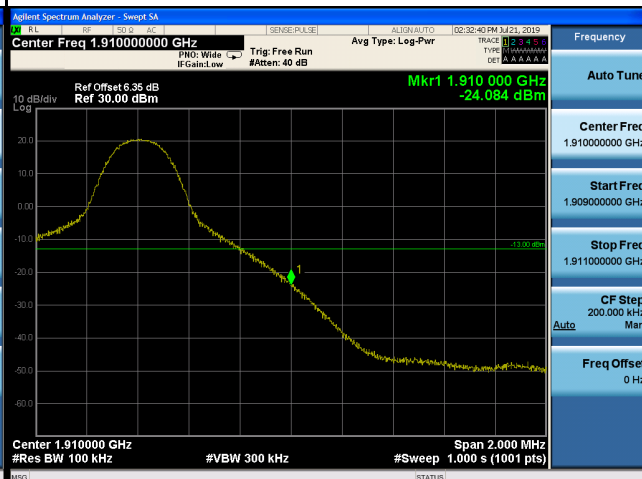
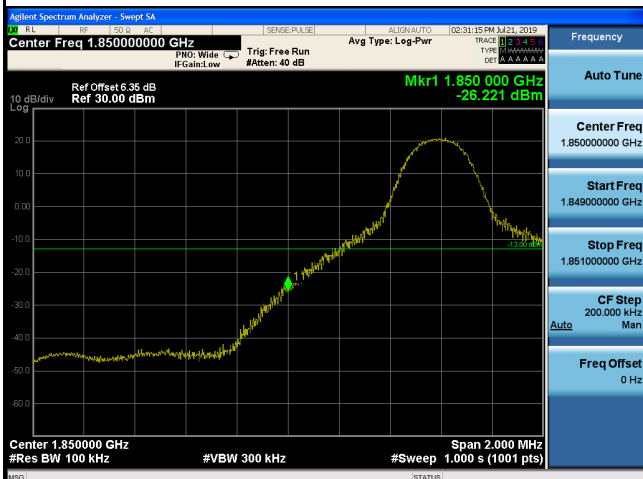
1RB#49

Channel

18650

Channel

19150



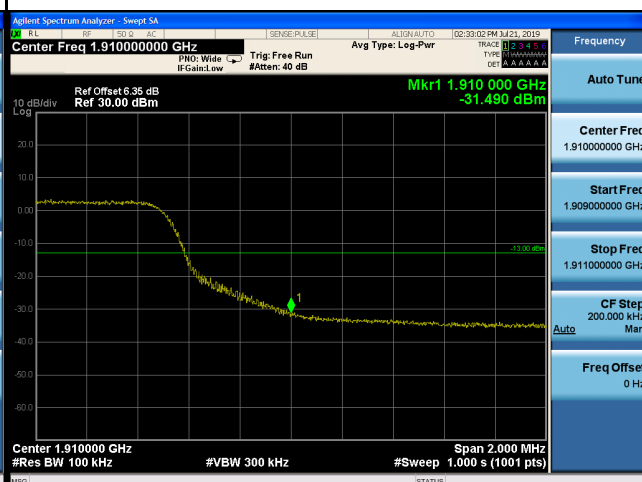
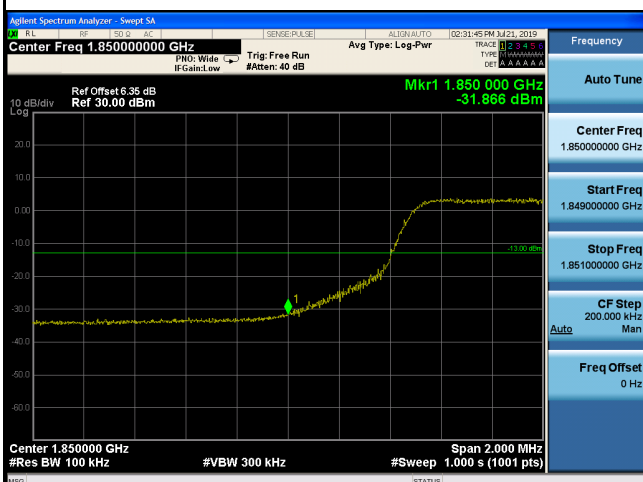
50RB#0

Channel

18650

Channel

19150



LTE Band 2_15M

1RB#0

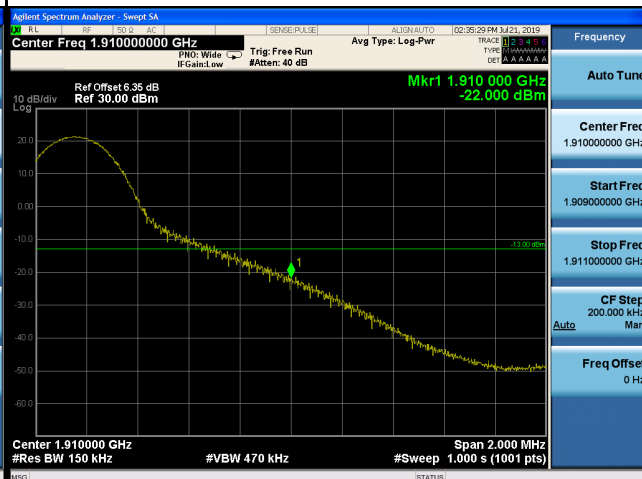
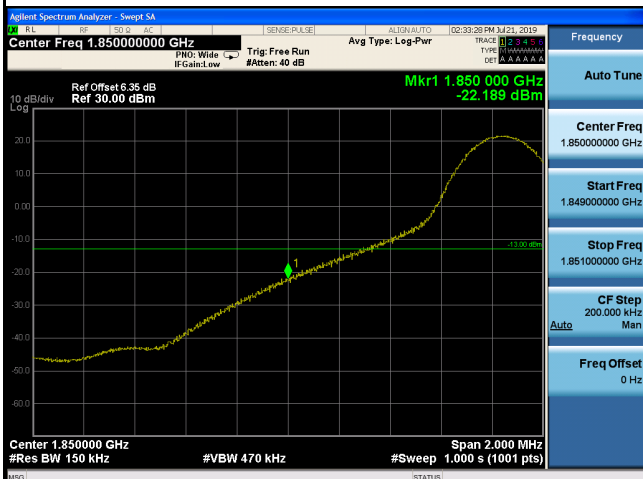
1RB#74

Channel

18675

Channel

19125



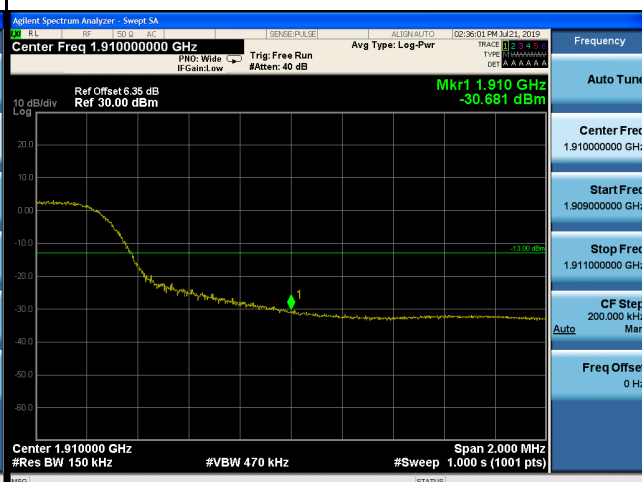
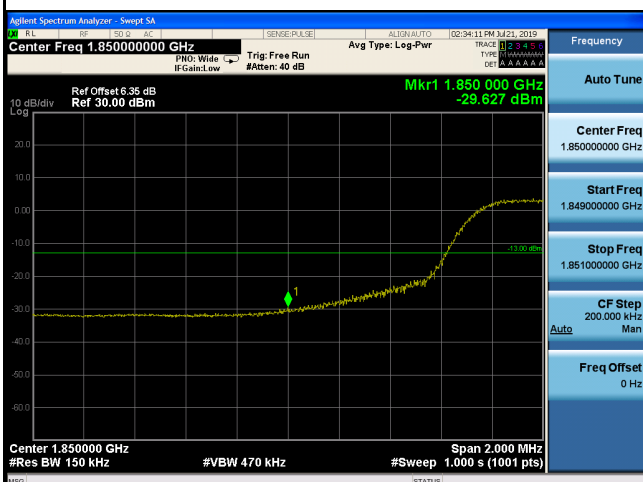
75RB#0

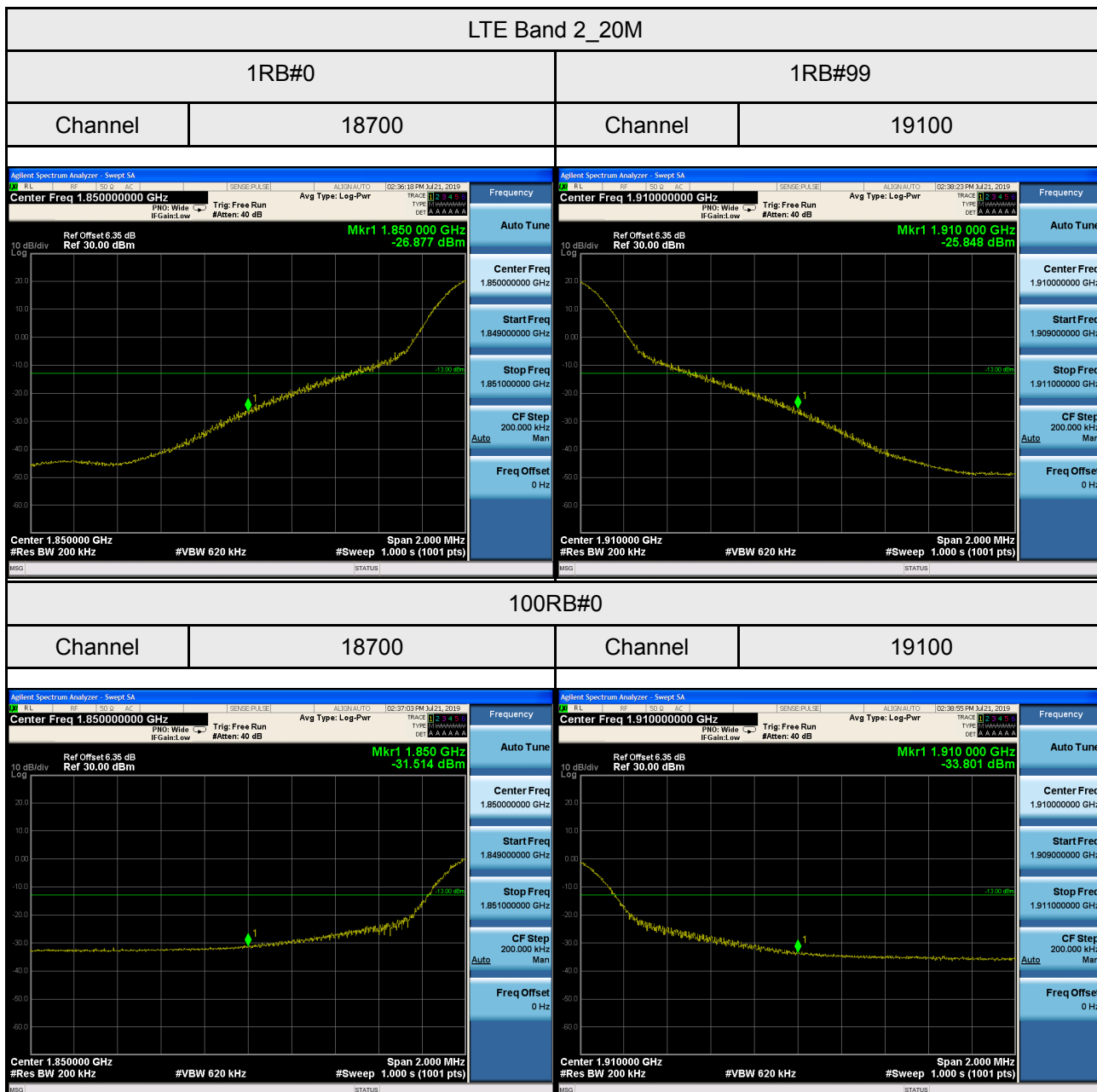
Channel

18675

Channel

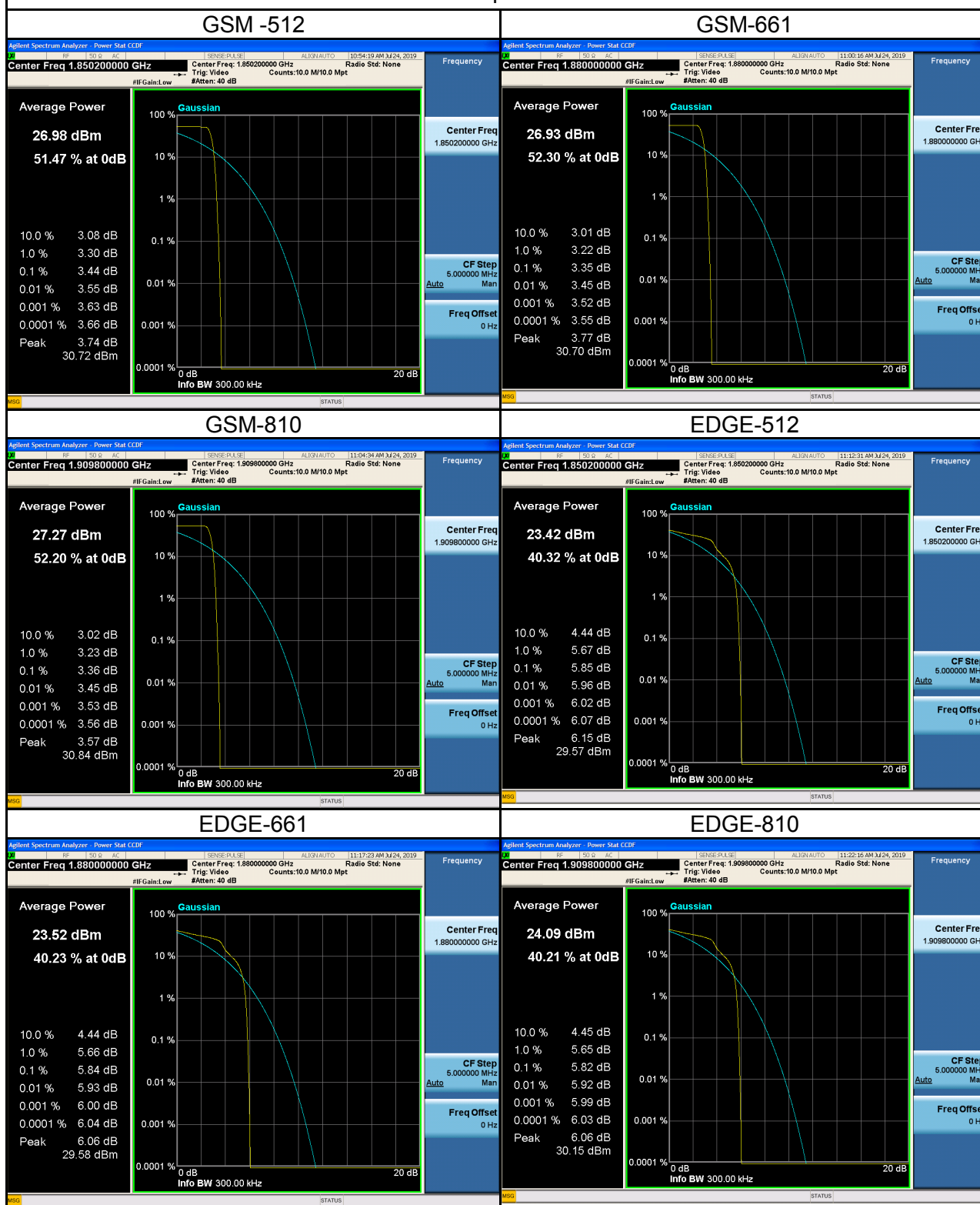
19125





APPENDIX H - PEAK TO AVERAGE RATIO

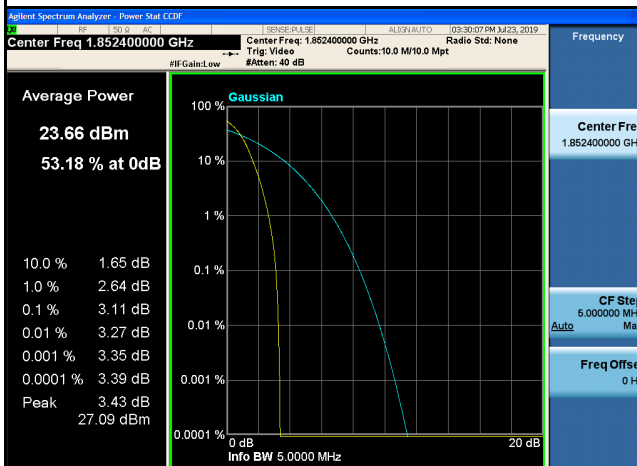
PCS1900 Spectrum Plot



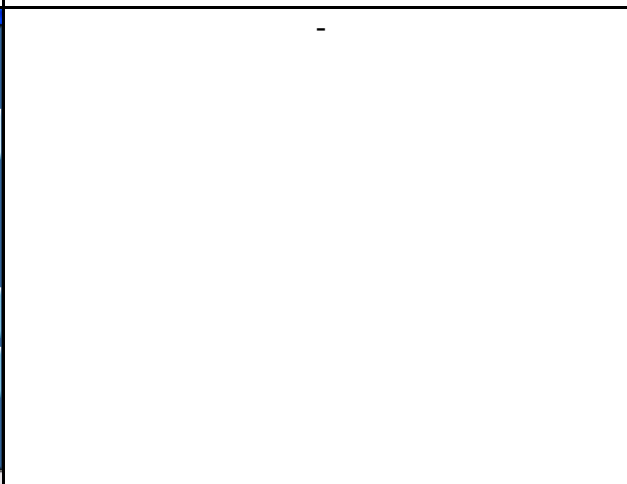
WCDMA Band II Spectrum Plot

9262

9400



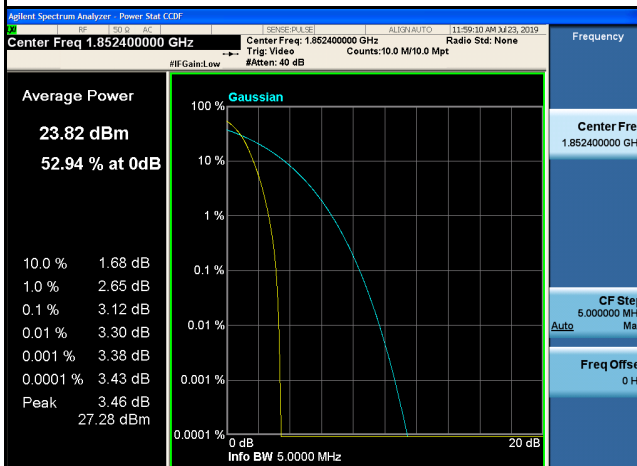
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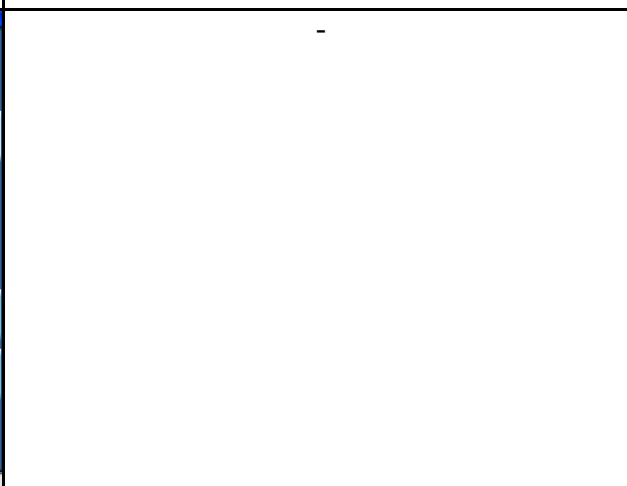
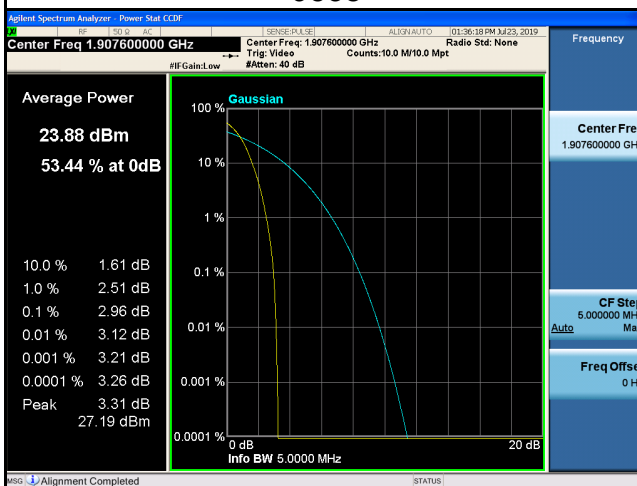
WCDMA_HSDPA Band II Spectrum Plot

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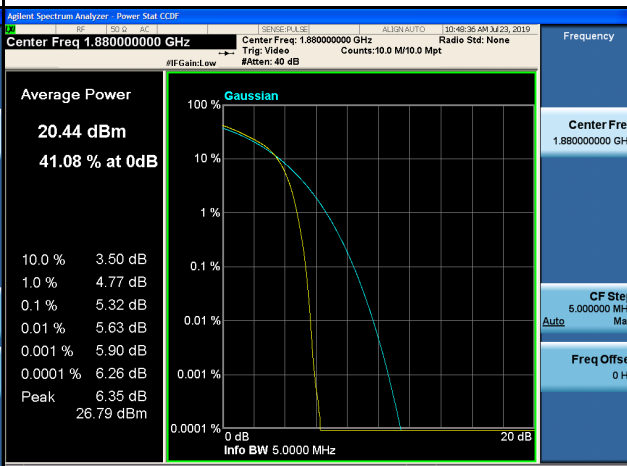
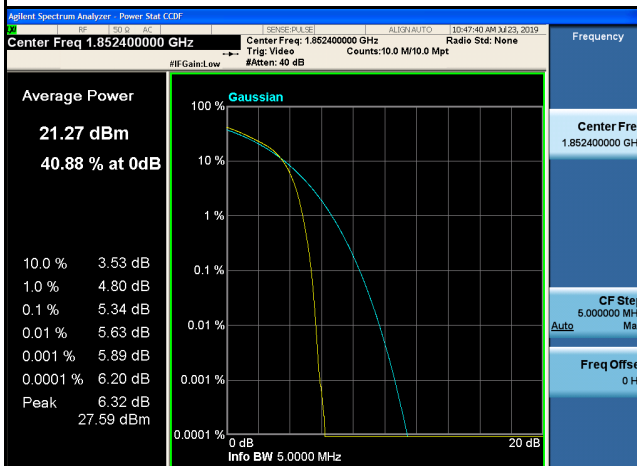
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WCDMA_HSUPA Band II Spectrum Plot

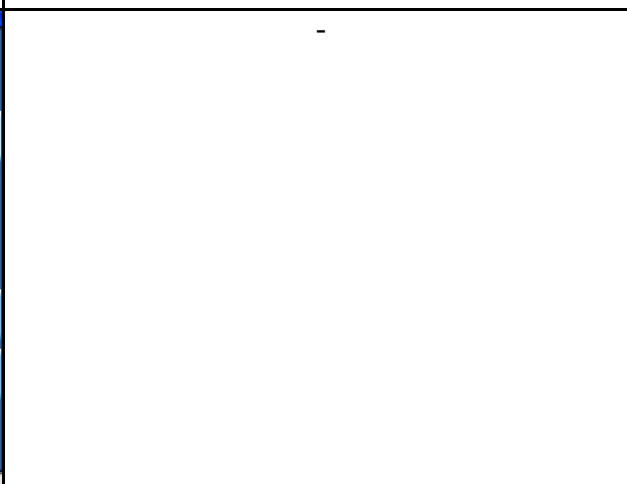
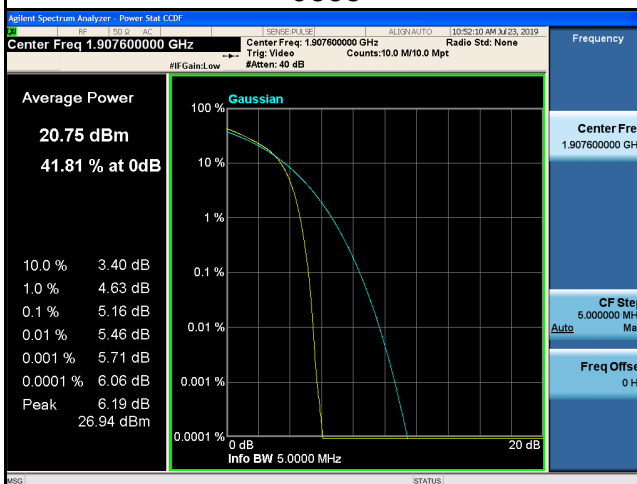
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LTE Band 2 Spectrum Plot_1.4M



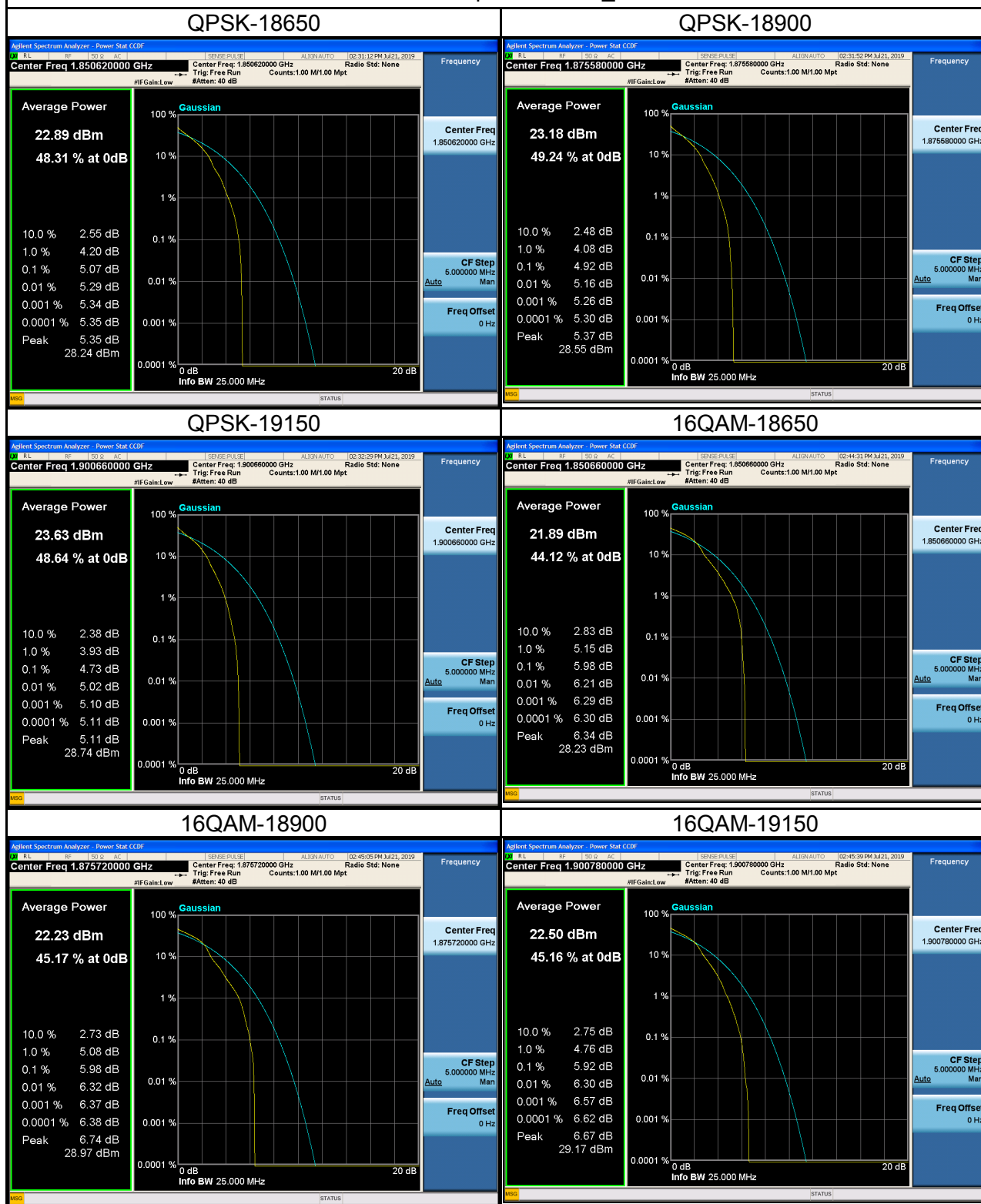
LTE Band 2 Spectrum Plot_3M



LTE Band 2 Spectrum Plot_5M

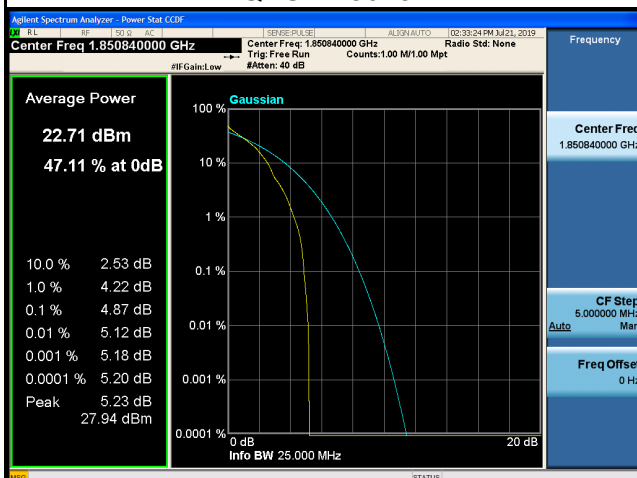


LTE Band 2 Spectrum Plot_10M

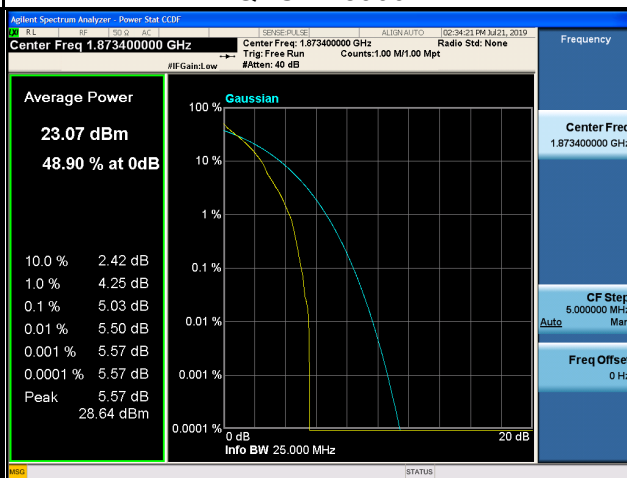


LTE Band 2 Spectrum Plot_15M

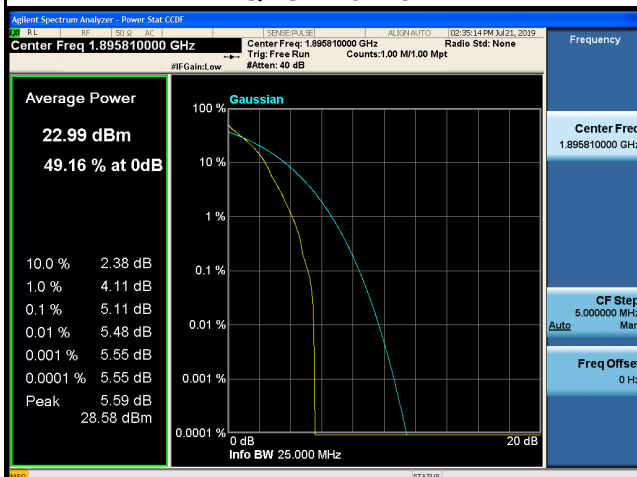
QPSK-18675



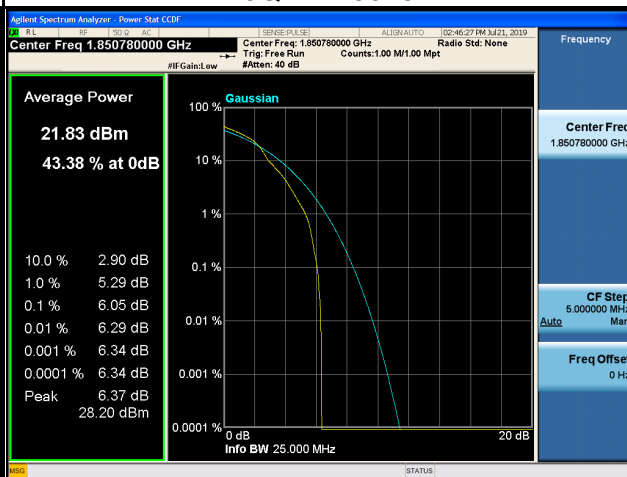
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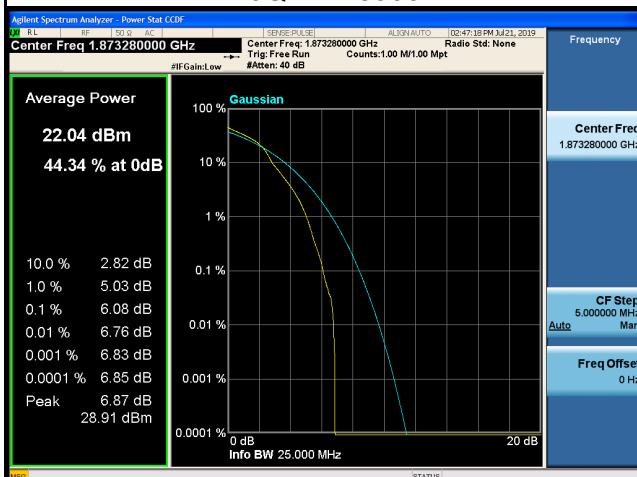
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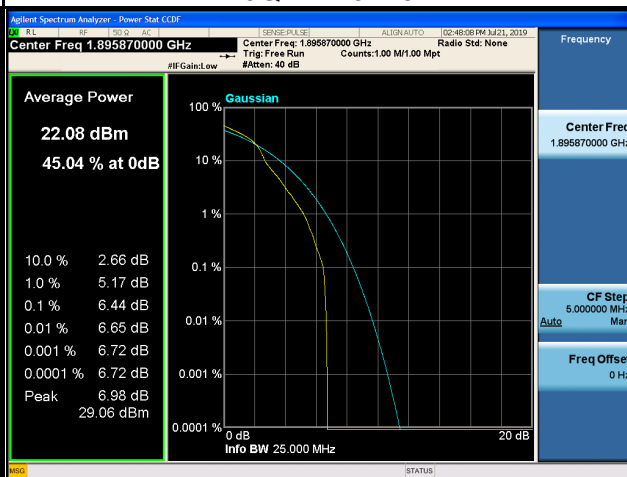
16QAM-18675



16QAM-18900



16QAM-19125



LTE Band 2 Spectrum Plot_20M



APPENDIX I - FREQUENCY STABILITY

Test Mode:	PCS1900_CH661
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	6.62	0.003521277	±2.5
-20	3.28	0.001744681	
-10	4.02	0.002138298	
0	5.28	0.002808511	
10	4.96	0.002638298	
20	4.85	0.002579787	
30	4.56	0.002425532	
40	4.29	0.002281915	
50	4.94	0.00262766	
60	5.83	0.003101064	
75	6.04	0.003212766	
Max. Deviation (ppm)	6.62	0.003521277	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.65	0.001941489	±2.5
4.0	3.95	0.002101064	
4.2	3.96	0.002106383	
Max. Deviation (ppm)	3.96	0.002106383	

Test Mode:	WCDMA Band II_CH9400
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	3.52	0.00187234	±2.5
-20	6.84	0.003638298	
-10	3.88	0.00206383	
0	6.39	0.003398936	
10	6.23	0.00331383	
20	4.22	0.002244681	
30	3.09	0.001643617	
40	3.69	0.001962766	
50	6.08	0.003234043	
60	7.25	0.003856383	
75	4.68	0.002489362	
Max. Deviation (ppm)	7.25	0.003856383	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.94	0.001031915	±2.5
4.0	2.54	0.001351064	
4.2	2.55	0.001356383	
Max. Deviation (ppm)	2.55	0.001356383	

Test Mode:	LTE Band 2_CH18900_1.4M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	2.69	0.001430851	±2.5
-20	-5.73	-0.003047872	
-10	3.17	0.00168617	
0	-1.34	-0.000712766	
10	-6.81	-0.00362234	
20	-5.39	-0.002867021	
30	-6.06	-0.003223404	
40	3.65	0.001941489	
50	-4.53	-0.002409574	
60	-5.31	-0.002824468	
75	-1.92	-0.001021277	
Max. Deviation (ppm)	-6.81	-0.00362234	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-3.19	-0.001696809	±2.5
4.0	1.70	0.000904255	
4.2	6.63	0.003526596	
Max. Deviation (ppm)	6.63	0.003526596	

Test Mode:	LTE Band 2_CH18900_3M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	4.31	0.002292553	±2.5
-20	3.04	0.001617021	
-10	-5.30	-0.002819149	
0	-4.85	-0.002579787	
10	-6.18	-0.003287234	
20	5.54	0.002946809	
30	4.12	0.002191489	
40	-5.14	-0.002734043	
50	6.18	0.003287234	
60	-2.20	-0.001170213	
75	2.69	0.001430851	
Max. Deviation (ppm)	-6.18	-0.003287234	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-5.42	-0.002882979	±2.5
4.0	-3.70	-0.001968085	
4.2	3.80	0.002021277	
Max. Deviation (ppm)	-5.42	-0.002882979	

Test Mode:	LTE Band 2_CH18900_5M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-3.65	-0.001941489	±2.5
-20	3.03	0.001611702	
-10	6.84	0.003638298	
0	-3.16	-0.001680851	
10	-5.33	-0.002835106	
20	-5.61	-0.002984043	
30	6.28	0.003340426	
40	-1.43	-0.000760638	
50	-3.04	-0.001617021	
60	6.52	0.003468085	
75	-4.21	-0.002239362	
Max. Deviation (ppm)	6.84	0.003638298	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	0.56	0.000297872	±2.5
4.0	6.17	0.003281915	
4.2	-5.28	-0.002808511	
Max. Deviation (ppm)	6.17	0.003281915	

Test Mode:	LTE Band 2_CH18900_10M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-0.19	-0.000101064	±2.5
-20	1.99	0.001058511	
-10	5.64	0.003	
0	1.22	0.000648936	
10	1.04	0.000553191	
20	2.48	0.001319149	
30	5.53	0.002941489	
40	-3.96	-0.002106383	
50	2.48	0.001319149	
60	4.33	0.002303191	
75	-2.42	-0.001287234	
Max. Deviation (ppm)	5.64	0.003	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.06	0.002691489	±2.5
4.0	-3.49	-0.001856383	
4.2	2.22	0.001180851	
Max. Deviation (ppm)	5.06	0.002691489	

Test Mode:	LTE Band 2_CH18900_15M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-1.87	-0.000994681	±2.5
-20	3.20	0.001702128	
-10	-0.61	-0.000324468	
0	-6.62	-0.003521277	
10	-4.83	-0.002569149	
20	4.66	0.002478723	
30	-2.66	-0.001414894	
40	-2.65	-0.001409574	
50	-5.37	-0.002856383	
60	-6.31	-0.003356383	
75	5.14	0.002734043	
Max. Deviation (ppm)	-6.62	-0.003521277	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	1.87	0.000994681	±2.5
4.0	2.41	0.001281915	
4.2	-2.08	-0.001106383	
Max. Deviation (ppm)	2.41	0.001281915	

Test Mode:	LTE Band 2_CH18900_20M
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	-6.78	-0.003606383	±2.5
-20	5.70	0.003031915	
-10	-5.30	-0.002819149	
0	5.20	0.002765957	
10	-1.64	-0.00087234	
20	0.25	0.000132979	
30	1.55	0.000824468	
40	-6.69	-0.003558511	
50	5.10	0.002712766	
60	5.33	0.002835106	
75	-6.77	-0.003601064	
Max. Deviation (ppm)	-6.77	-0.003606383	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.95	0.003164894	±2.5
4.0	5.57	0.002962766	
4.2	-1.17	-0.00062234	
Max. Deviation (ppm)	5.95	0.003164894	

End of Test Report