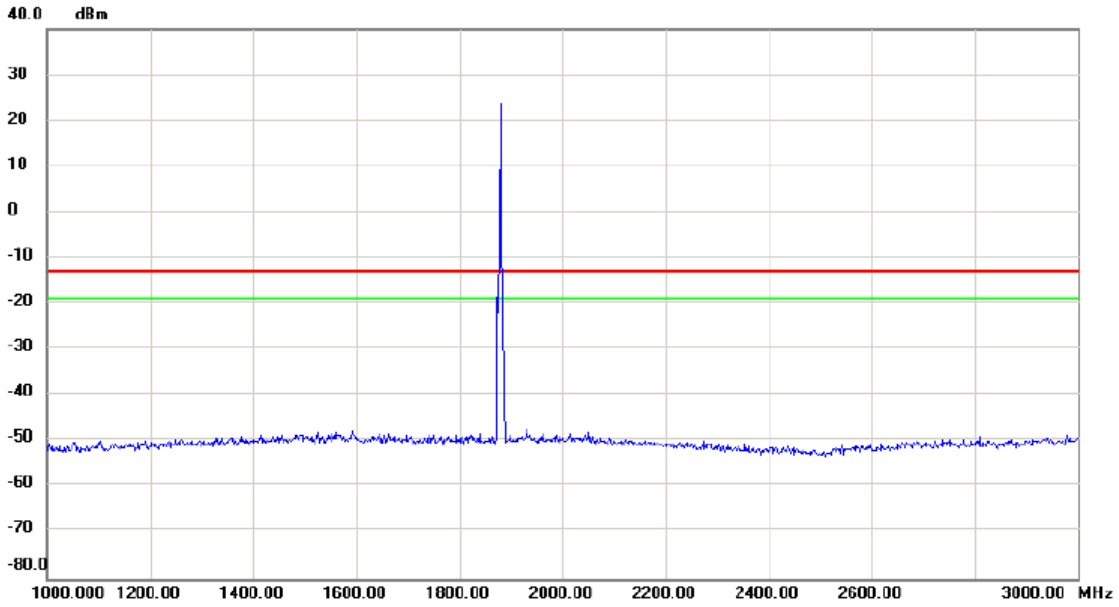


Test Mode: DCS1900_TX CH661_EDGE

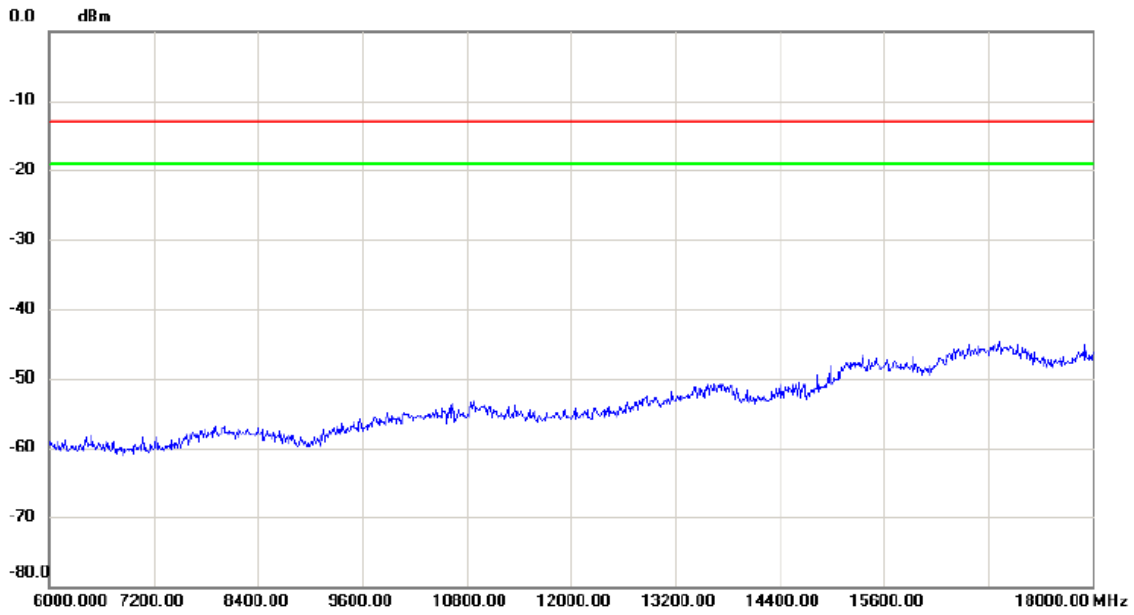
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1900.000	25.0	0.0	25.0	-15.0	40.0		

Test Mode: DCS1900_TX CH661_EDGE

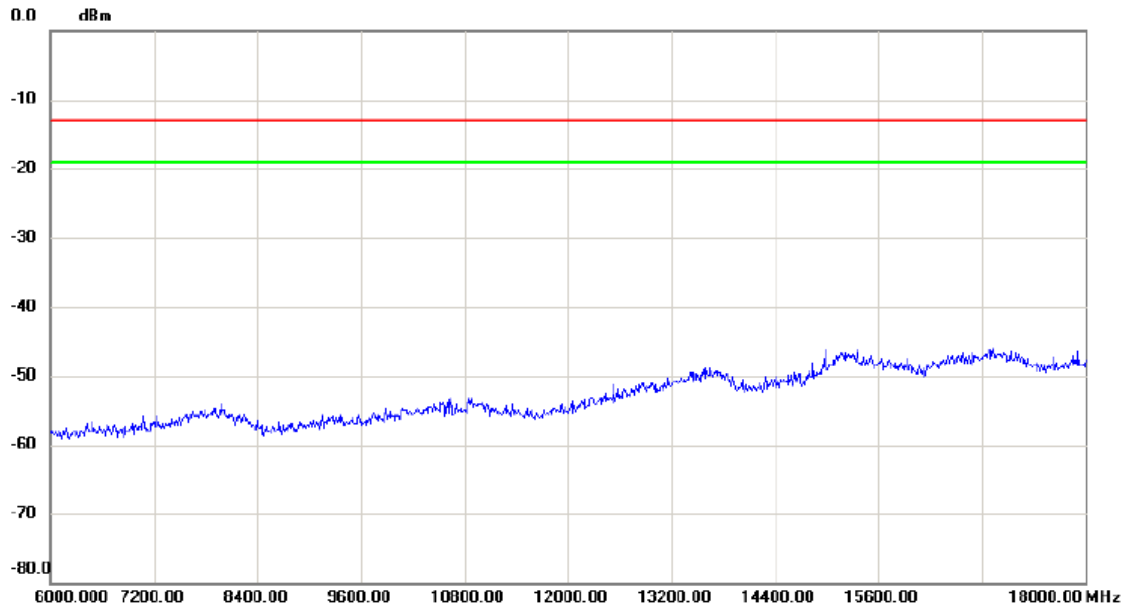
Vertical



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

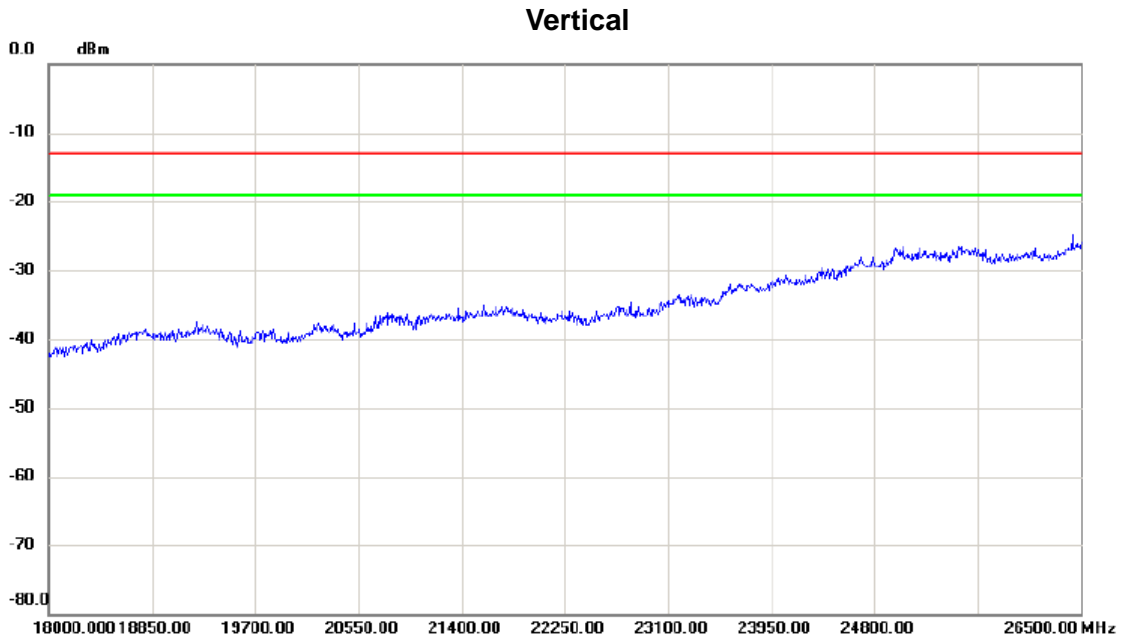
Test Mode: DCS1900_TX CH661_EDGE

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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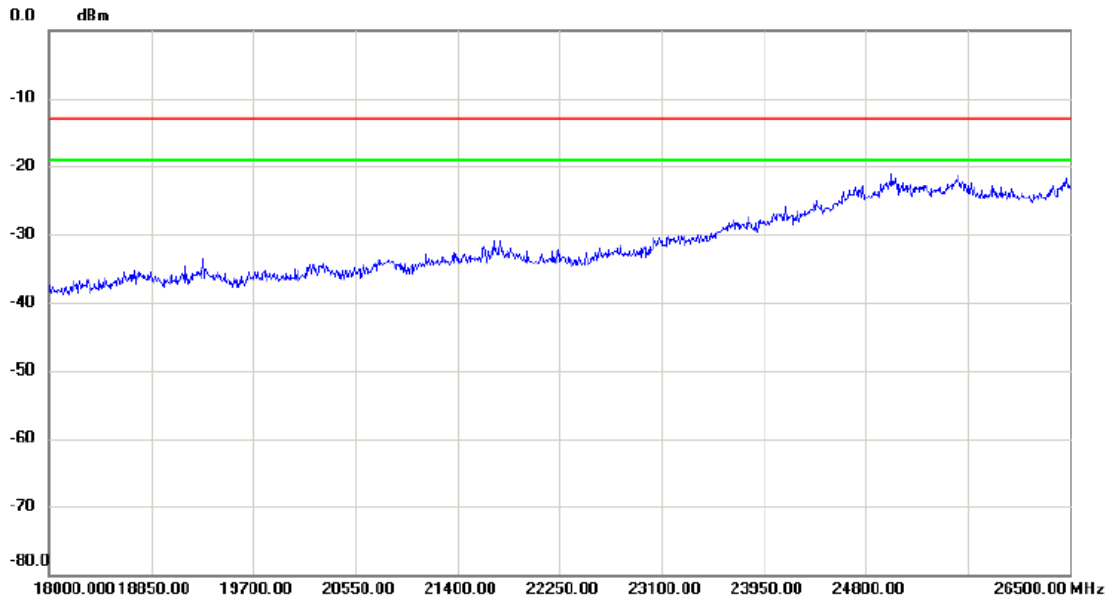
Test Mode: DCS1900_TX CH661_EDGE



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		18000.00	-42		-42	-15	-27		
		18850.00	-40		-40	-15	-25		
		19700.00	-40		-40	-15	-25		
		20550.00	-38		-38	-15	-23		
		21400.00	-38		-38	-15	-23		
		22250.00	-36		-36	-15	-21		
		23100.00	-34		-34	-15	-19		
		23950.00	-32		-32	-15	-17		
		24800.00	-30		-30	-15	-15		
		25650.00	-28		-28	-15	-13		

Test Mode: DCS1900_TX CH661_EDGE

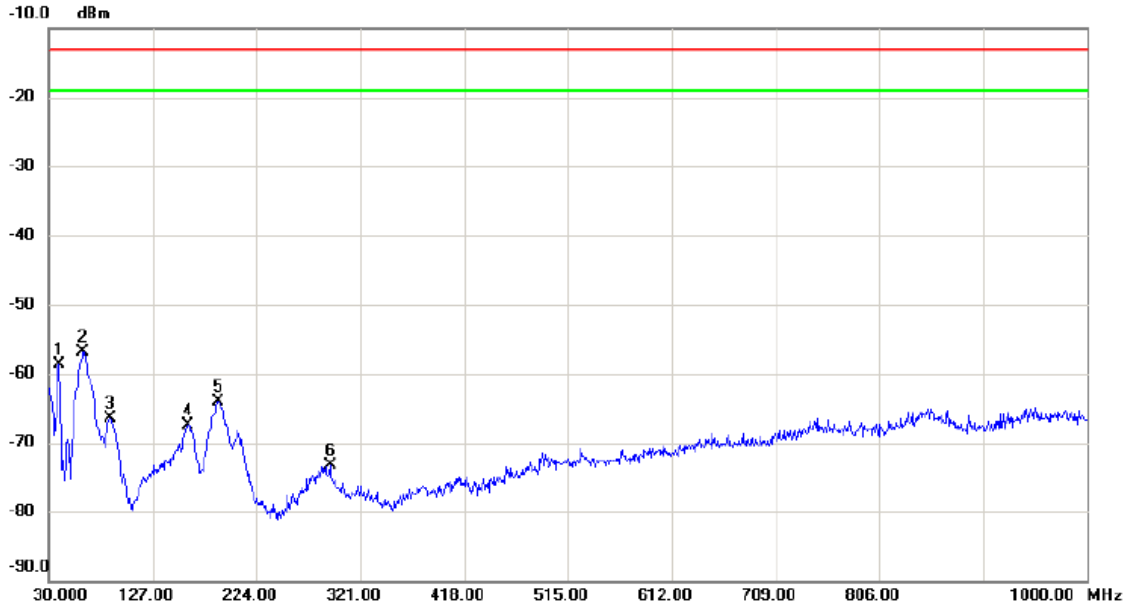
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		18000.000	-40.0						
		18950.000	-38.0						
		19700.000	-38.0						
		20550.000	-36.0						
		21400.000	-35.0						
		22250.000	-33.0						
		23100.000	-30.0						
		23950.000	-28.0						
		24800.000	-25.0						
		26500.000	-23.0						

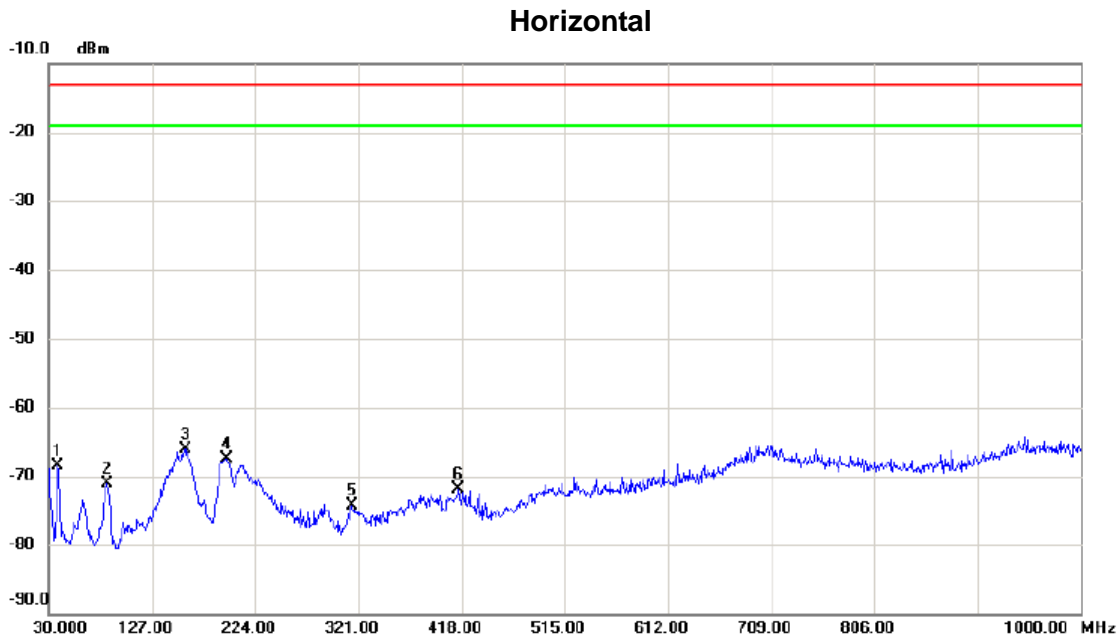
Test Mode: WCDMA Band 2_TX CH9400

Vertical



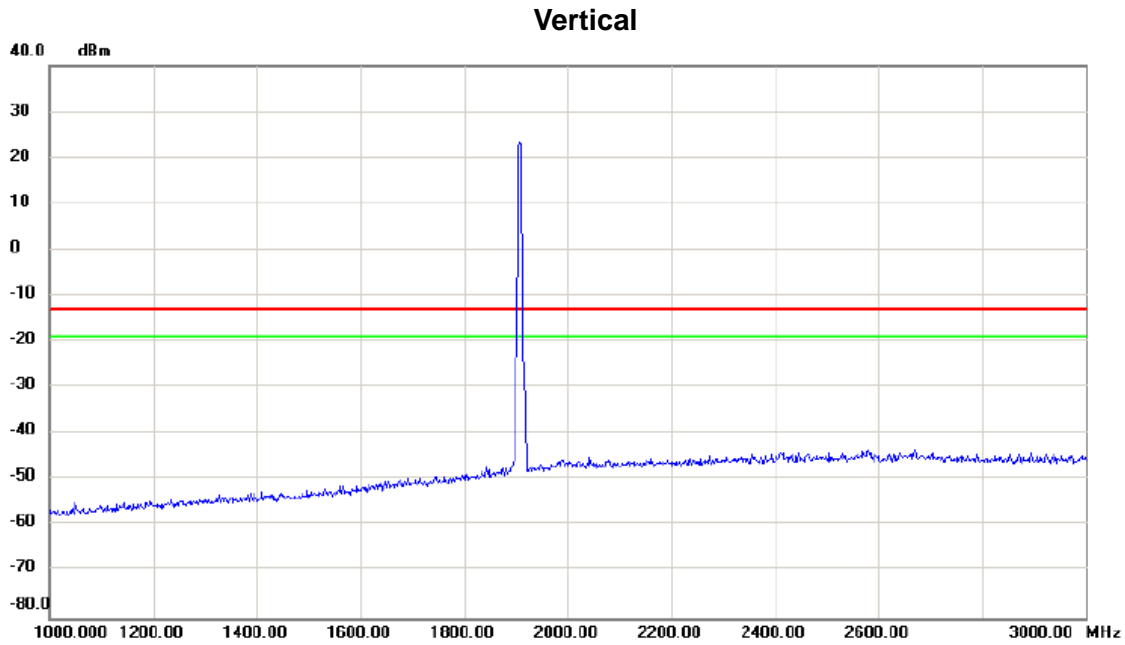
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		39.700	-60.69	1.90	-58.79	-13.00	-45.79	peak	
2	*	62.010	-57.61	0.73	-56.88	-13.00	-43.88	peak	
3		87.230	-60.99	-5.46	-66.45	-13.00	-53.45	peak	
4		159.980	-70.58	3.18	-67.40	-13.00	-54.40	peak	
5		188.110	-62.74	-1.31	-64.05	-13.00	-51.05	peak	
6		292.870	-75.19	1.86	-73.33	-13.00	-60.33	peak	

Test Mode: WCDMA Band 2_TX CH9400



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		38.730	-70.08	1.63	-68.45	-13.00	-55.45	peak	
2		85.290	-63.17	-7.88	-71.05	-13.00	-58.05	peak	
3	*	159.010	-68.90	2.90	-66.00	-13.00	-53.00	peak	
4		196.840	-65.74	-1.81	-67.55	-13.00	-54.55	peak	
5		315.180	-76.20	1.86	-74.34	-13.00	-61.34	peak	
6		415.090	-78.62	6.63	-71.99	-13.00	-58.99	peak	

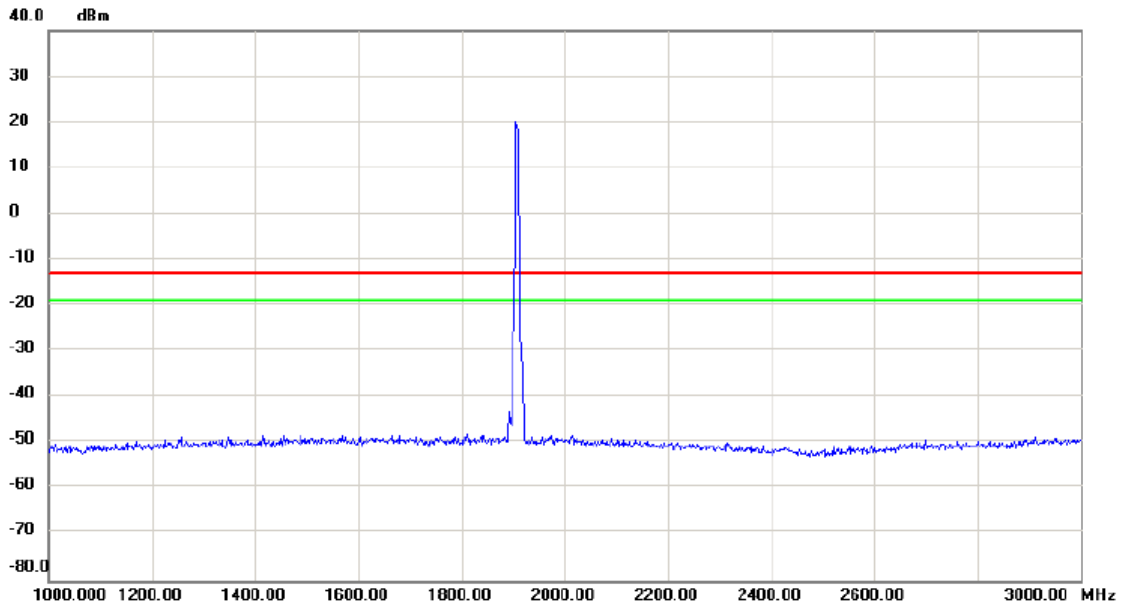
Test Mode: WCDMA Band 2_TX CH9400



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

Test Mode: WCDMA Band 2_TX CH9400

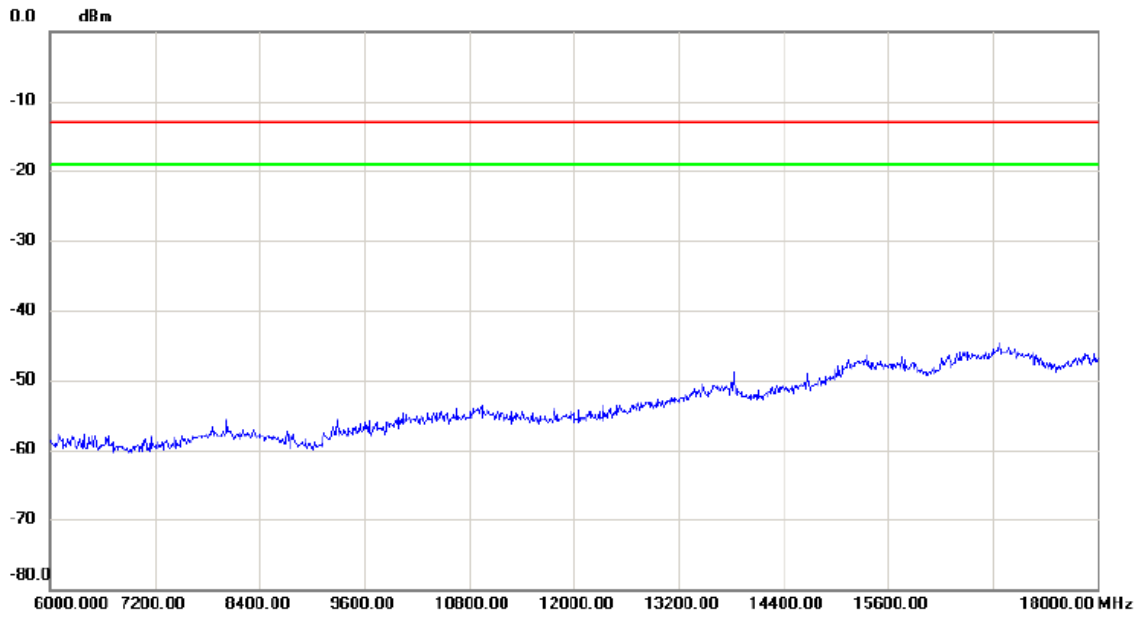
Horizontal



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 2_TX CH9400

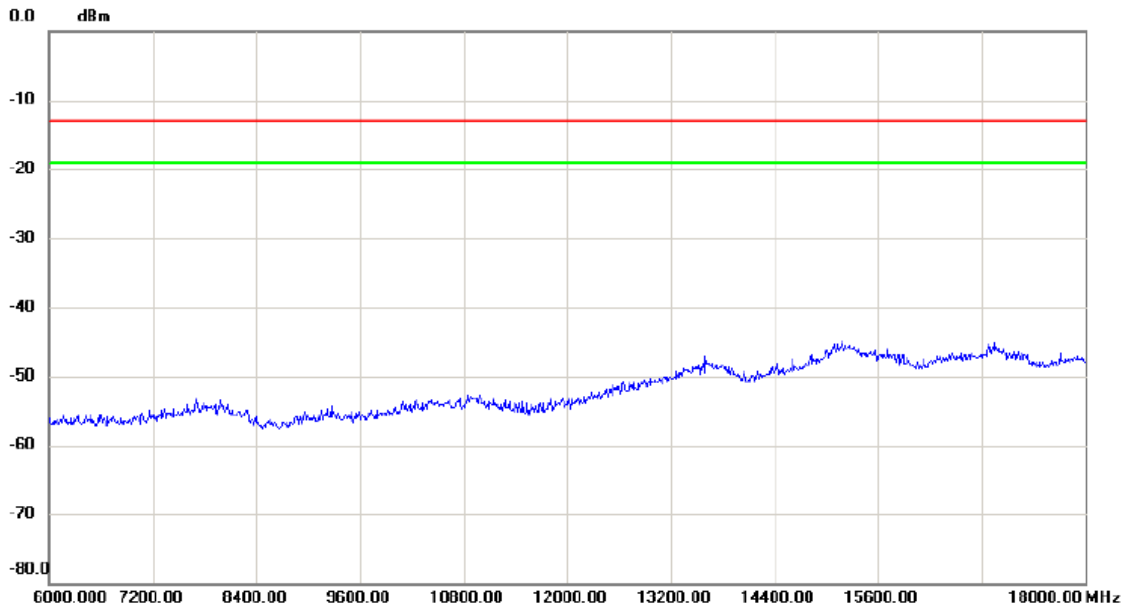
Vertical



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

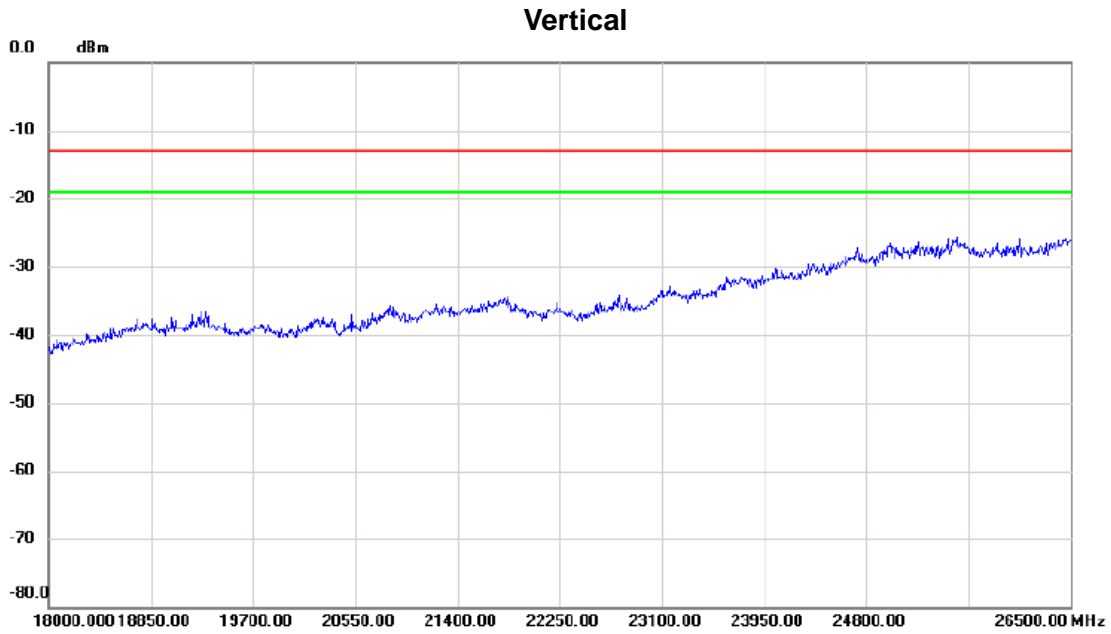
Test Mode: WCDMA Band 2_TX CH9400

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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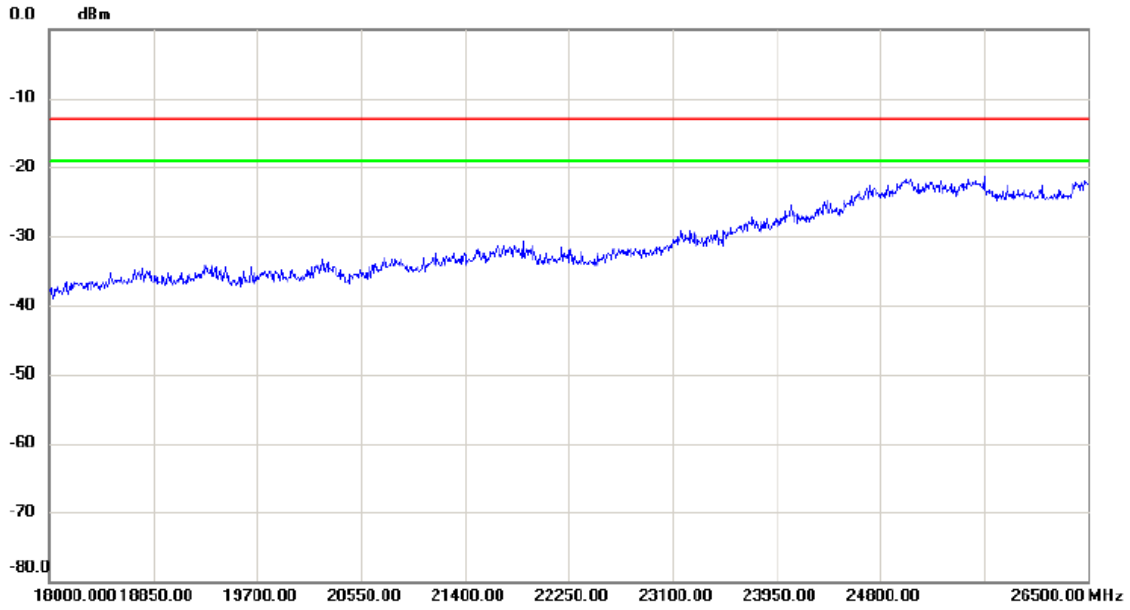
Test Mode: WCDMA Band 2_TX CH9400



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		18000.00	-42						
		18850.00	-40						
		19700.00	-40						
		20550.00	-38						
		21400.00	-38						
		22250.00	-38						
		23100.00	-35						
		23950.00	-32						
		24800.00	-28						
		25650.00	-26						

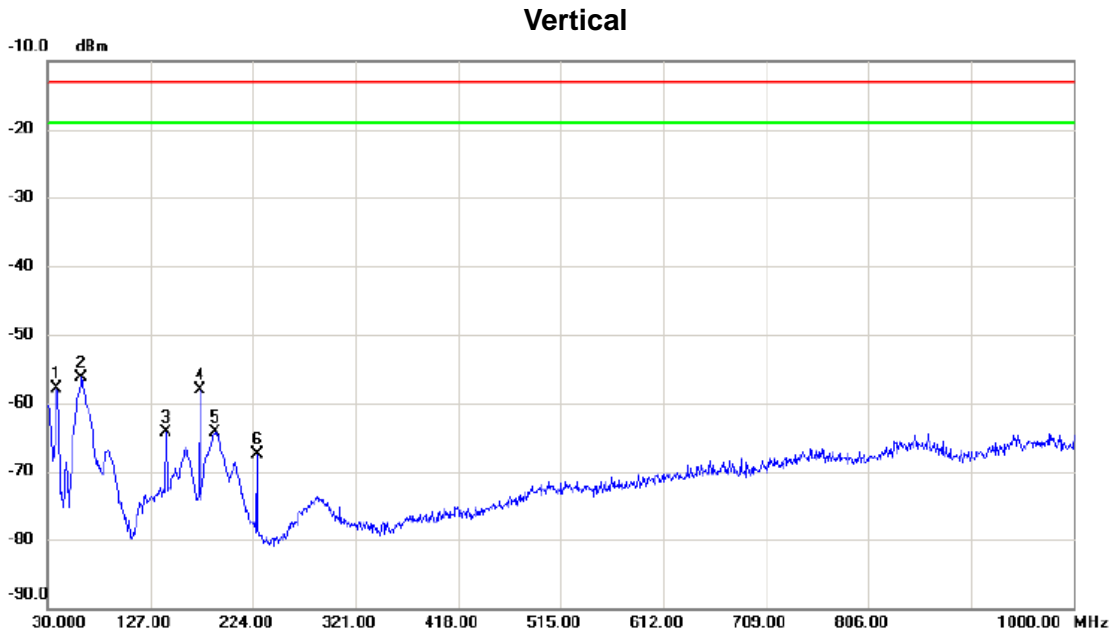
Test Mode: WCDMA Band 2_TX CH9400

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
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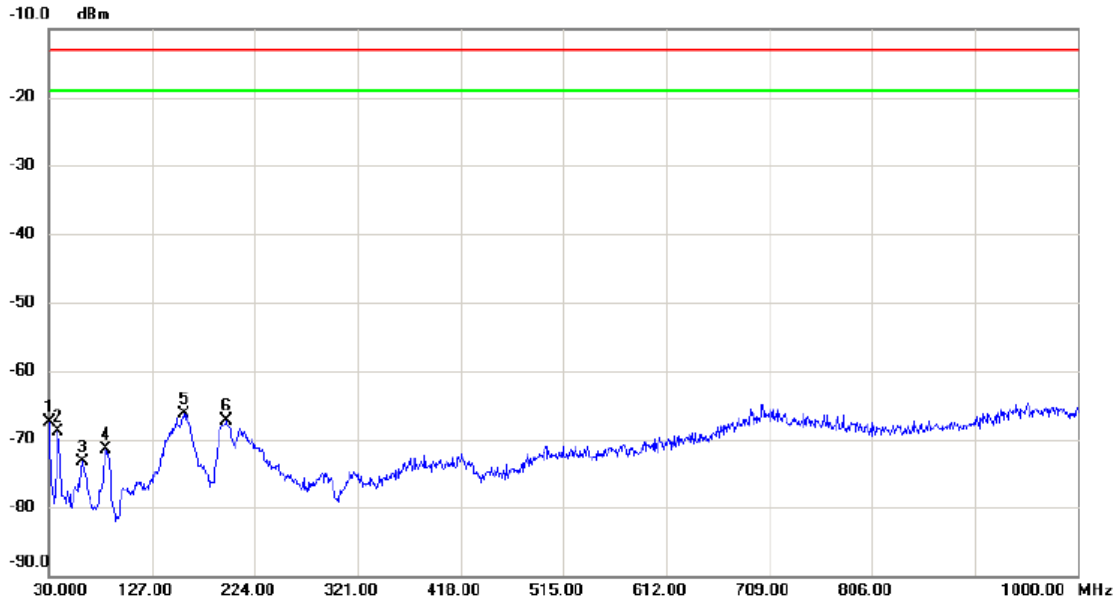
Test Mode: WCDMA Band 2_HSDPA_TX CH9400



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		38.730	-59.16	1.21	-57.95	-13.00	-44.95	peak	
2	*	62.010	-57.10	0.73	-56.37	-13.00	-43.37	peak	
3		141.550	-66.67	2.31	-64.36	-13.00	-51.36	peak	
4		173.560	-58.23	0.20	-58.03	-13.00	-45.03	peak	
5		188.110	-62.90	-1.31	-64.21	-13.00	-51.21	peak	
6		227.880	-67.58	0.08	-67.50	-13.00	-54.50	peak	

Test Mode: WCDMA Band 2_HSDPA_TX CH9400

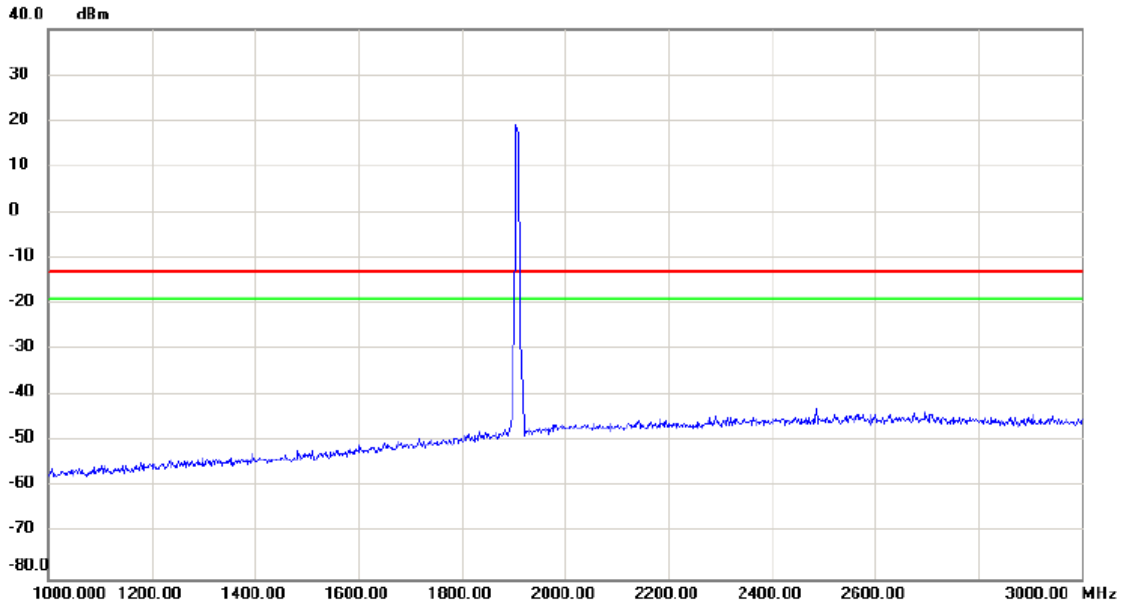
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	30.000	-69.30	1.88	-67.42	-13.00	-54.42	peak	
2	38.730	-70.56	1.63	-68.93	-13.00	-55.93	peak	
3	62.010	-72.28	-0.97	-73.25	-13.00	-60.25	peak	
4	83.350	-63.64	-7.76	-71.40	-13.00	-58.40	peak	
5 *	157.070	-69.54	3.19	-66.35	-13.00	-53.35	peak	
6	197.810	-65.38	-1.84	-67.22	-13.00	-54.22	peak	

Test Mode: WCDMA Band 2_HSDPA_TX CH9400

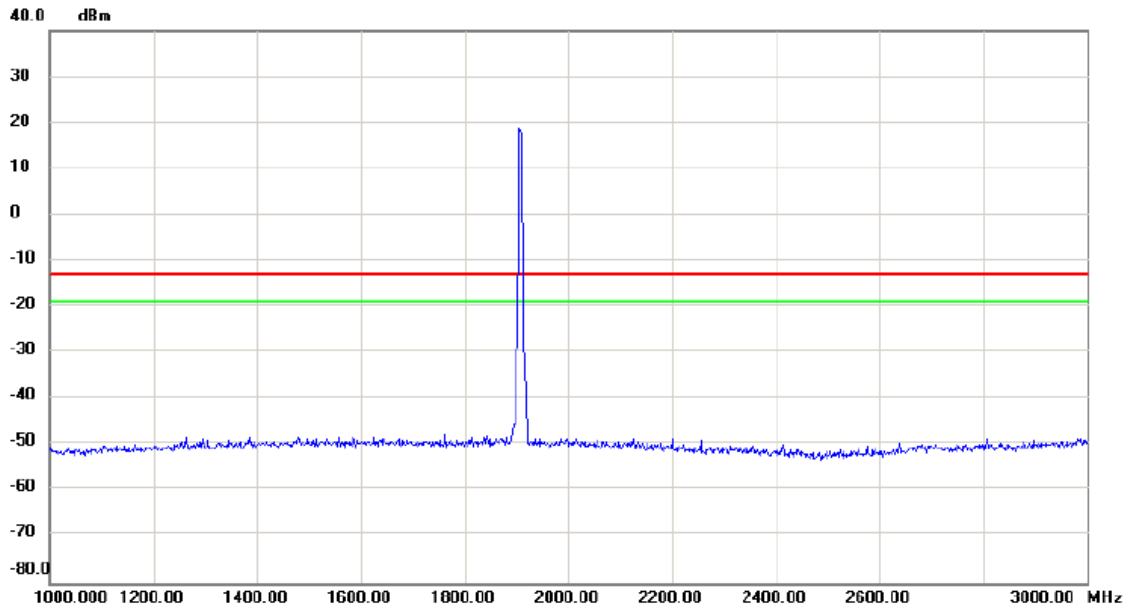
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
		1920.00	18.00	0.00	18.00	-15.00	33.00		

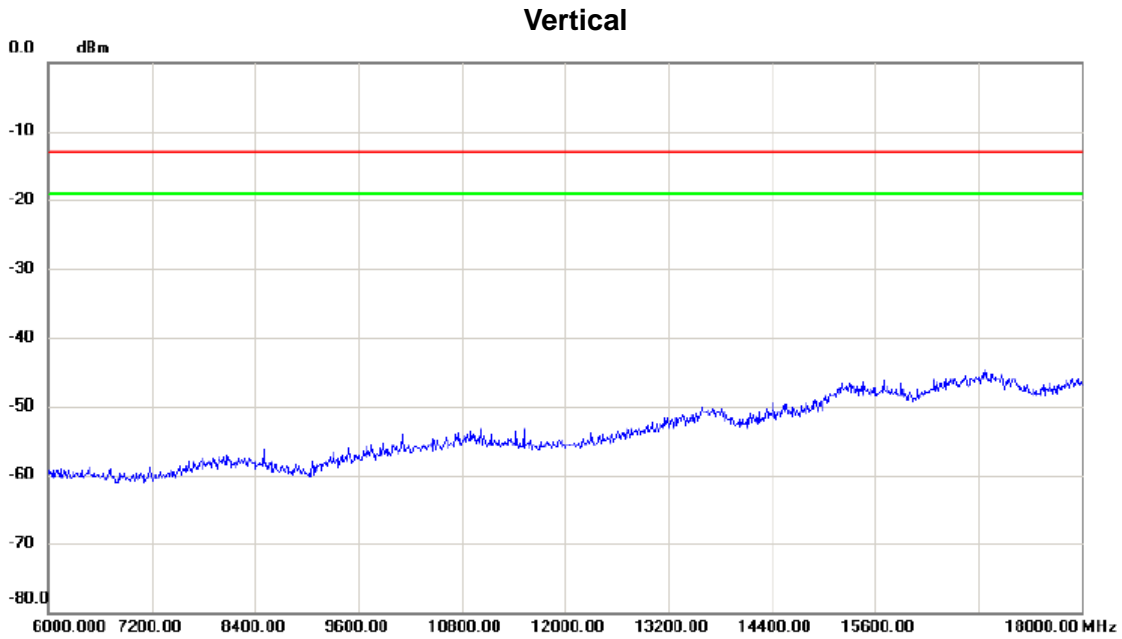
Test Mode: WCDMA Band 2_HSDPA_TX CH9400

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
		1920.00	18.00	0.00	18.00	-15.00	33.00		

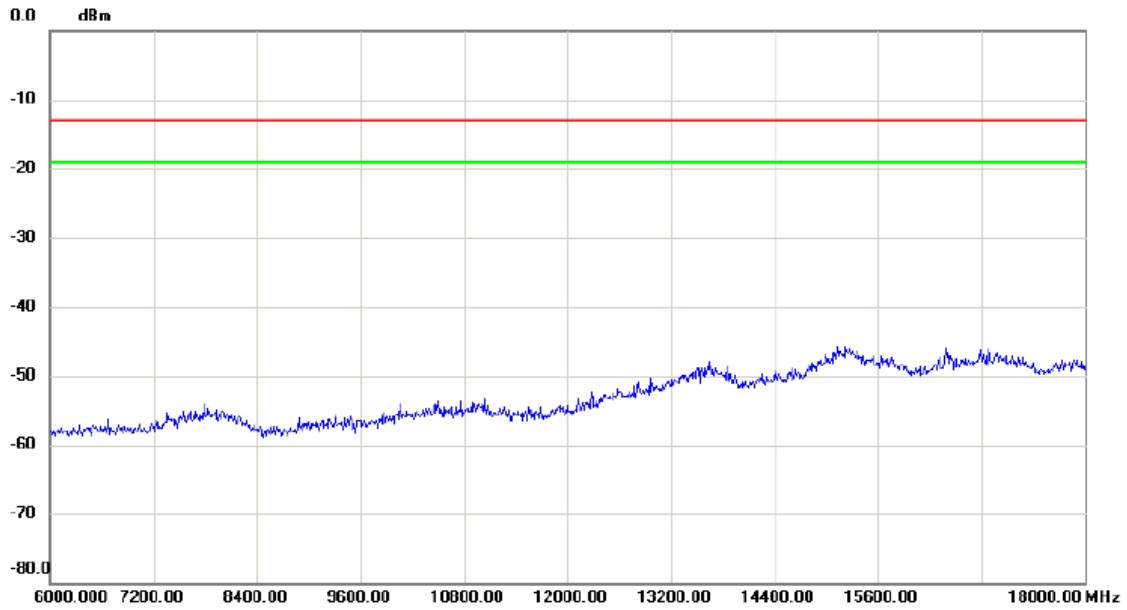
Test Mode: WCDMA Band 2_HSDPA_TX CH9400



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

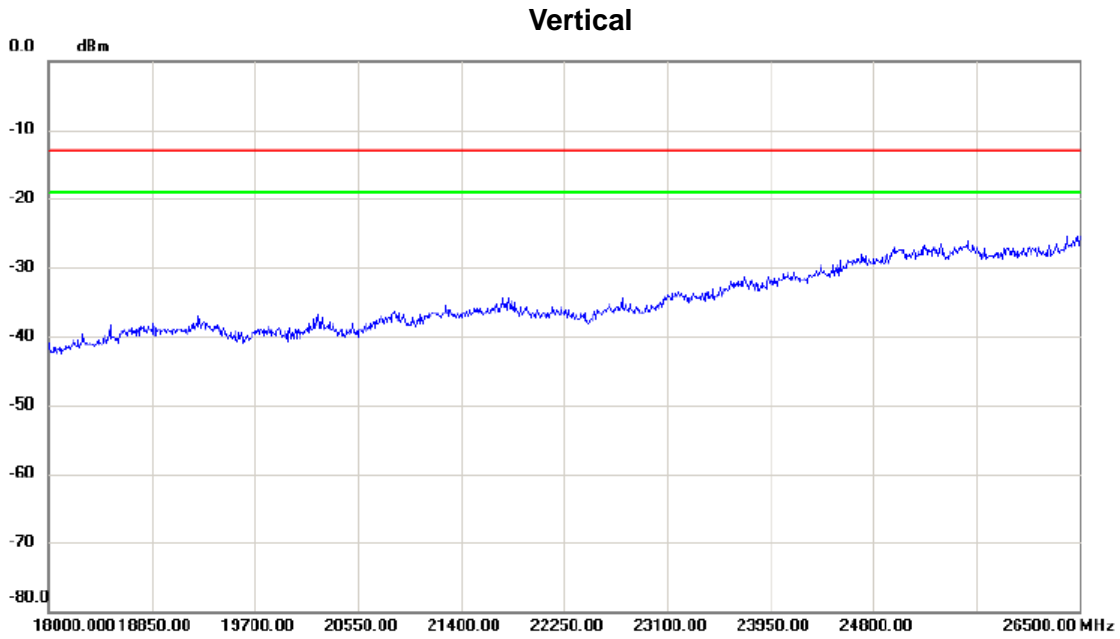
Test Mode: WCDMA Band 2_HSDPA_TX CH9400

Horizontal



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

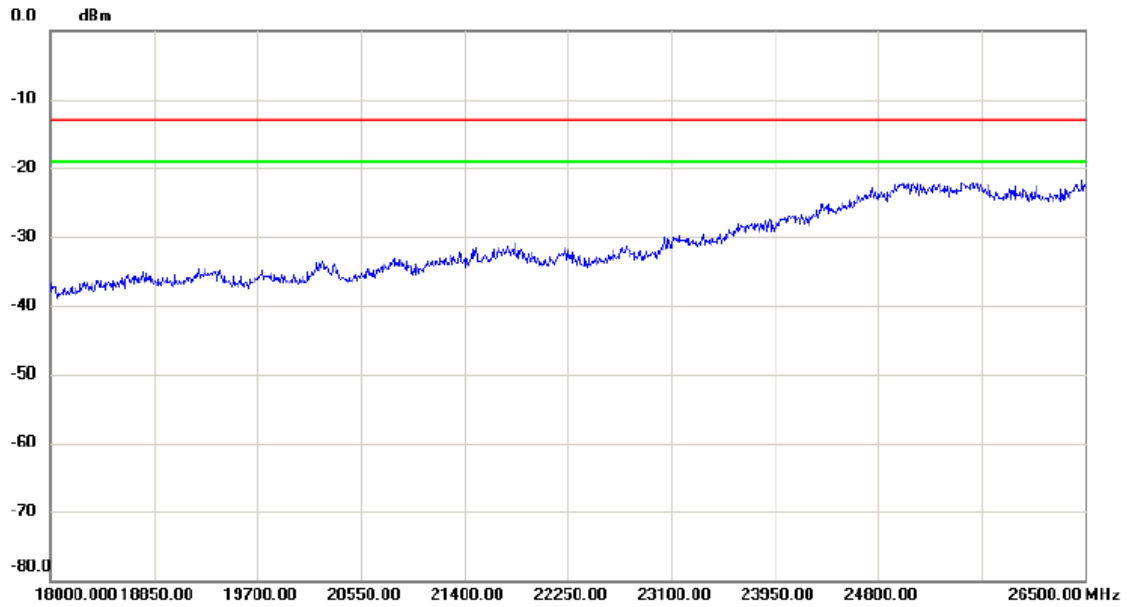
Test Mode: WCDMA Band 2_HSDPA_TX CH9400



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

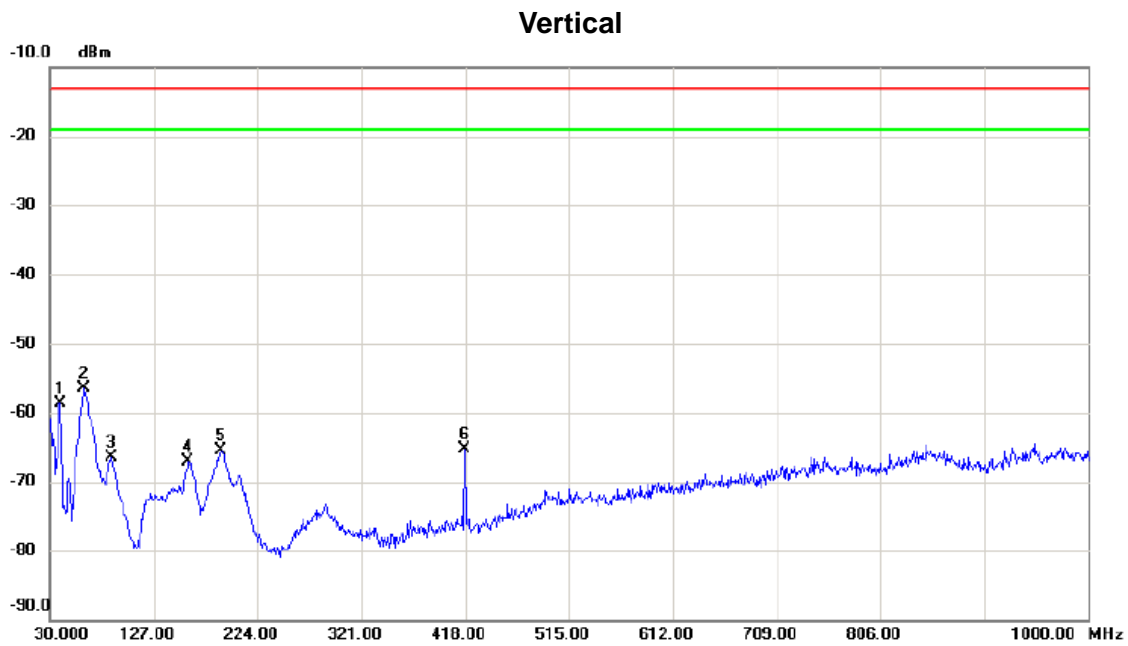
Test Mode: WCDMA Band 2_HSDPA_TX CH9400

Horizontal



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

Test Mode: WCDMA Band 2_HSUPA_TX CH9400



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		39.700	-60.61	1.90	-58.71	-13.00	-45.71	peak	
2	*	61.040	-57.04	0.60	-56.44	-13.00	-43.44	peak	
3		87.230	-61.13	-5.46	-66.59	-13.00	-53.59	peak	
4		159.010	-70.19	3.18	-67.01	-13.00	-54.01	peak	
5		189.080	-63.96	-1.56	-65.52	-13.00	-52.52	peak	
6		417.030	-69.77	4.57	-65.20	-13.00	-52.20	peak	

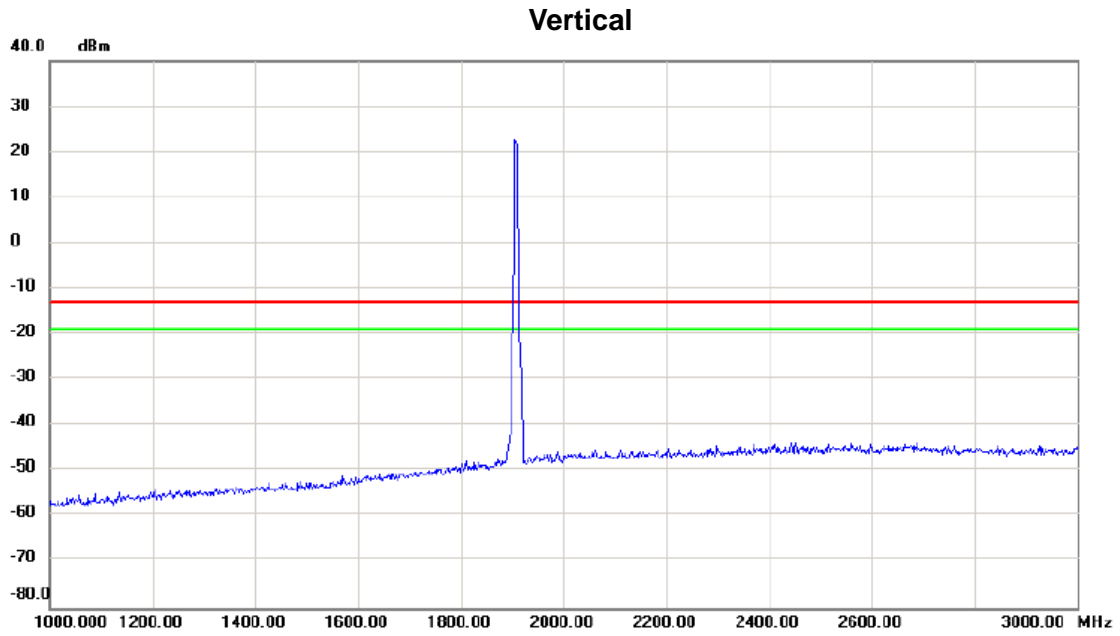
Test Mode: WCDMA Band 2_HSUPA_TX CH9400

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		38.730	-71.57	1.63	-69.94	-13.00	-56.94	peak	
2		62.010	-72.56	-0.97	-73.53	-13.00	-60.53	peak	
3		84.320	-64.33	-7.87	-72.20	-13.00	-59.20	peak	
4	*	157.070	-68.52	3.19	-65.33	-13.00	-52.33	peak	
5		196.840	-64.23	-1.81	-66.04	-13.00	-53.04	peak	
6		422.850	-76.84	6.56	-70.28	-13.00	-57.28	peak	

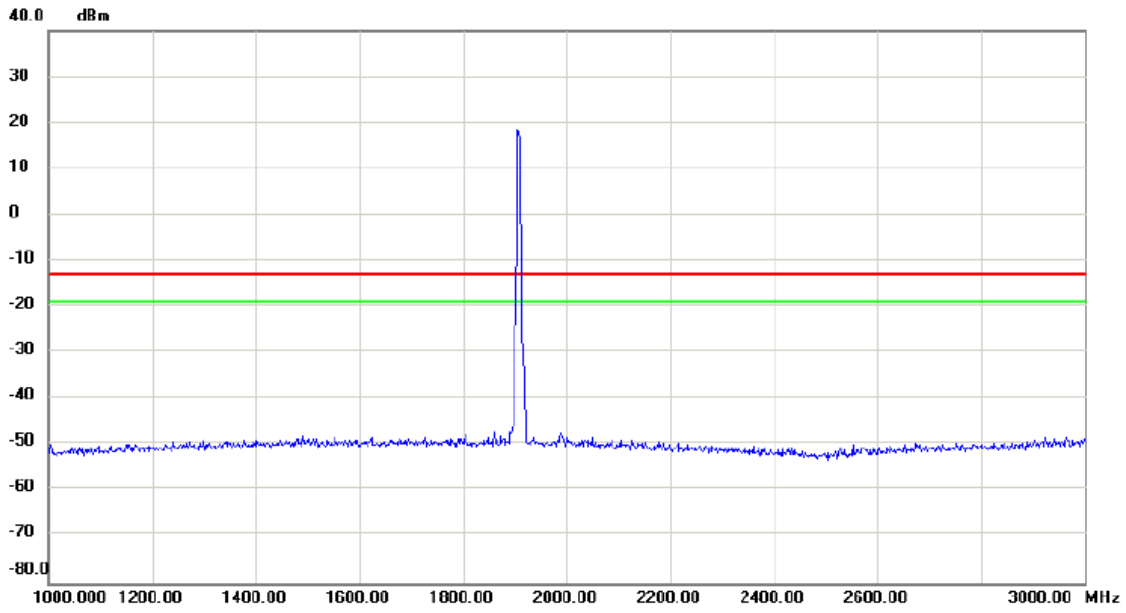
Test Mode: WCDMA Band 2_HSUPA_TX CH9400



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1850.00	22.00	0.00	22.00	-15.00	7.00		

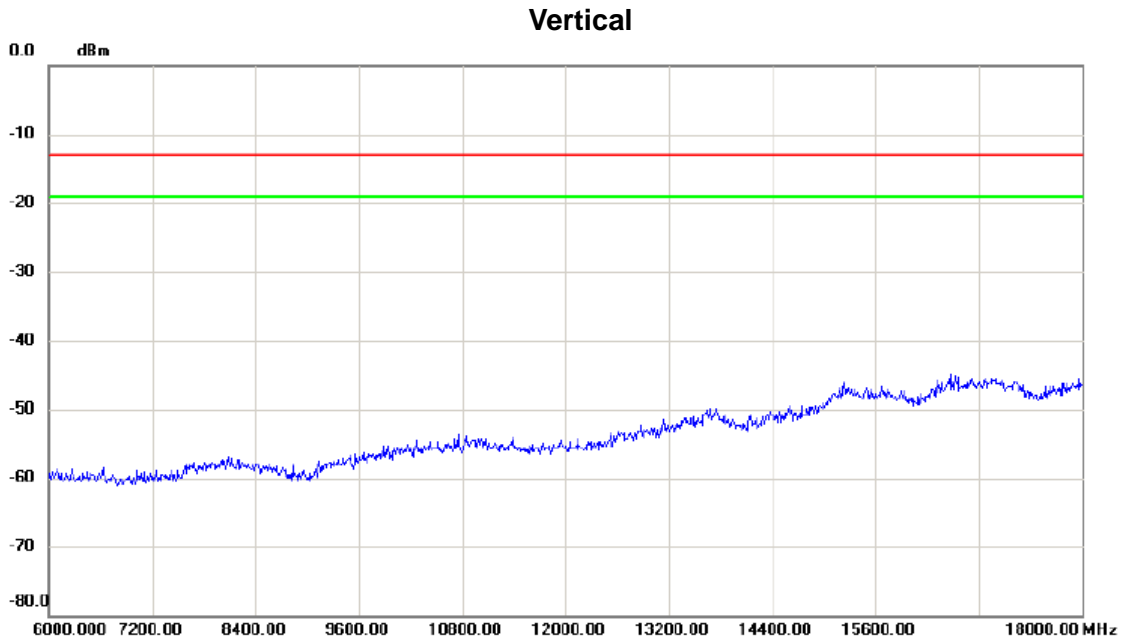
Test Mode: WCDMA Band 2_HSUPA_TX CH9400

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1900.00	18.00	0.00	18.00	-15.00	33.00		

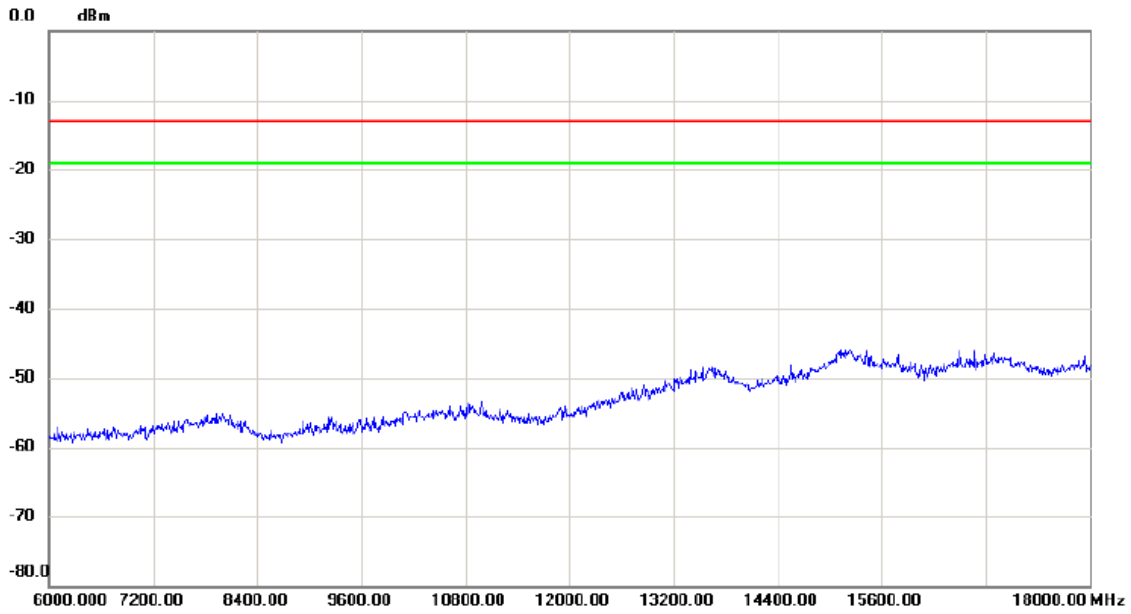
Test Mode: WCDMA Band 2_HSUPA_TX CH9400



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

Test Mode: WCDMA Band 2_HSUPA_TX CH9400

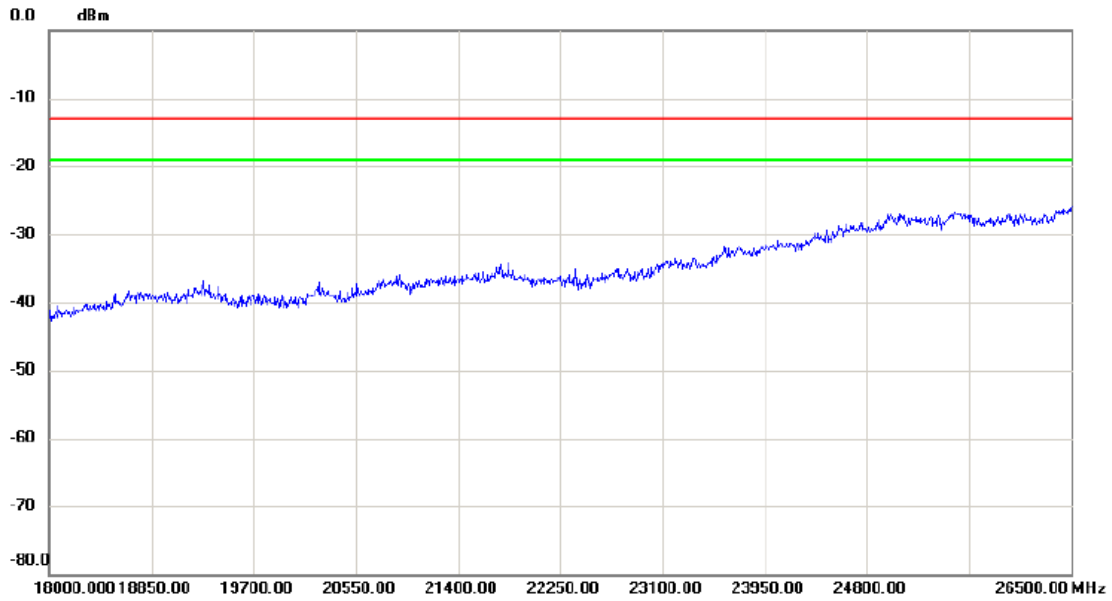
Horizontal



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

Test Mode: WCDMA Band 2_HSUPA_TX CH9400

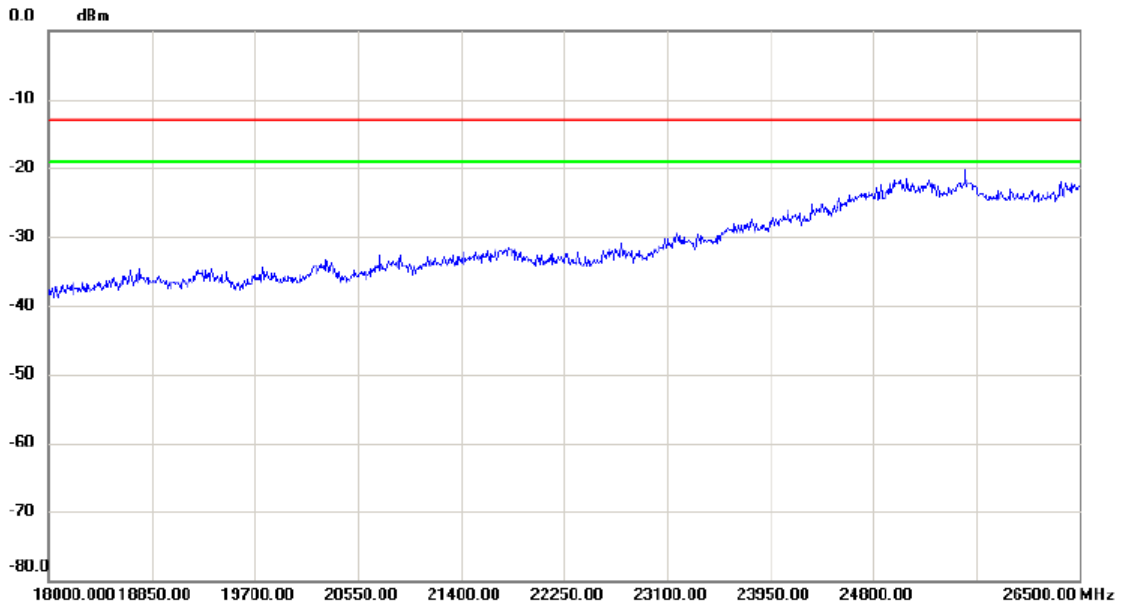
Vertical



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

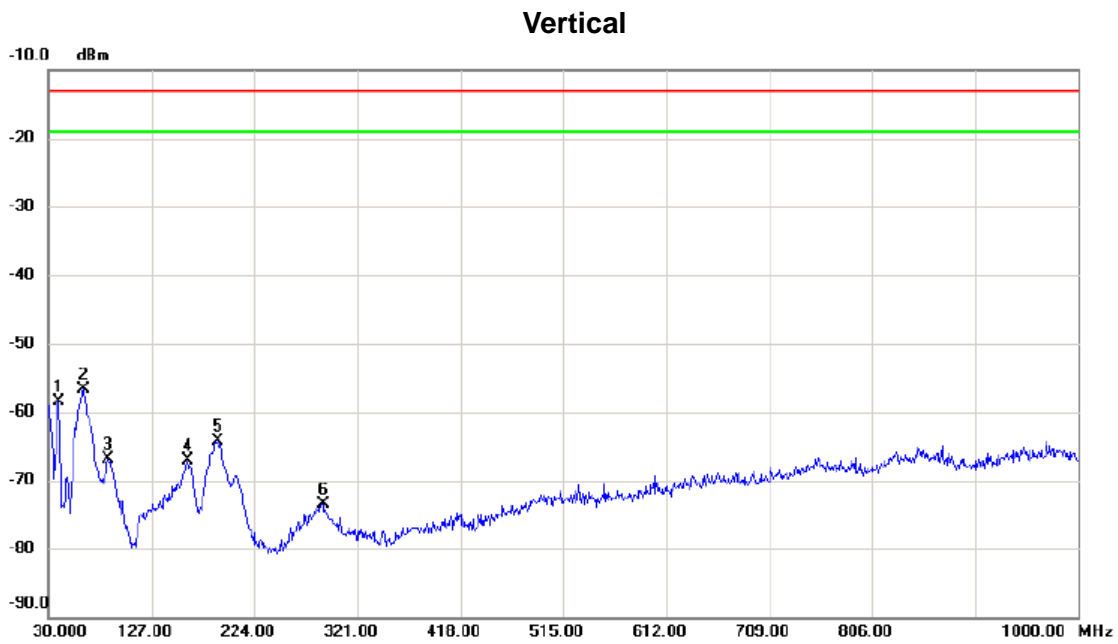
Test Mode: WCDMA Band 2_HSUPA_TX CH9400

Horizontal



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

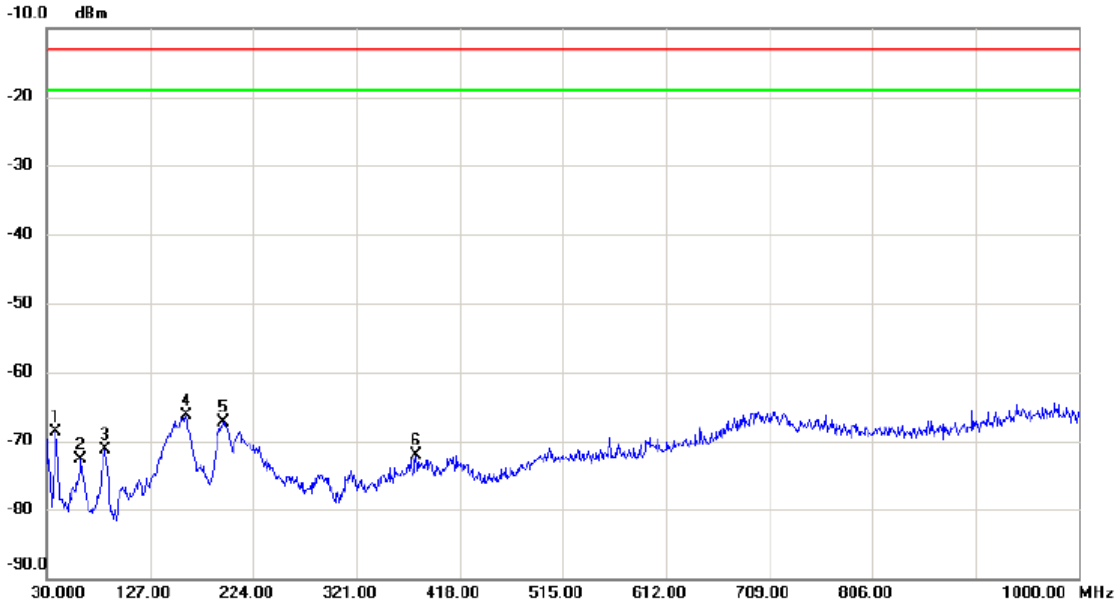
Test Mode: LTE Band 2_TX CH18900_1.4M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		39.700	-60.47	1.90	-58.57	-13.00	-45.57	peak	
2	*	62.980	-57.56	0.85	-56.71	-13.00	-43.71	peak	
3		86.260	-61.03	-5.91	-66.94	-13.00	-53.94	peak	
4		160.950	-69.91	2.87	-67.04	-13.00	-54.04	peak	
5		189.080	-62.73	-1.56	-64.29	-13.00	-51.29	peak	
6		288.990	-75.74	2.26	-73.48	-13.00	-60.48	peak	

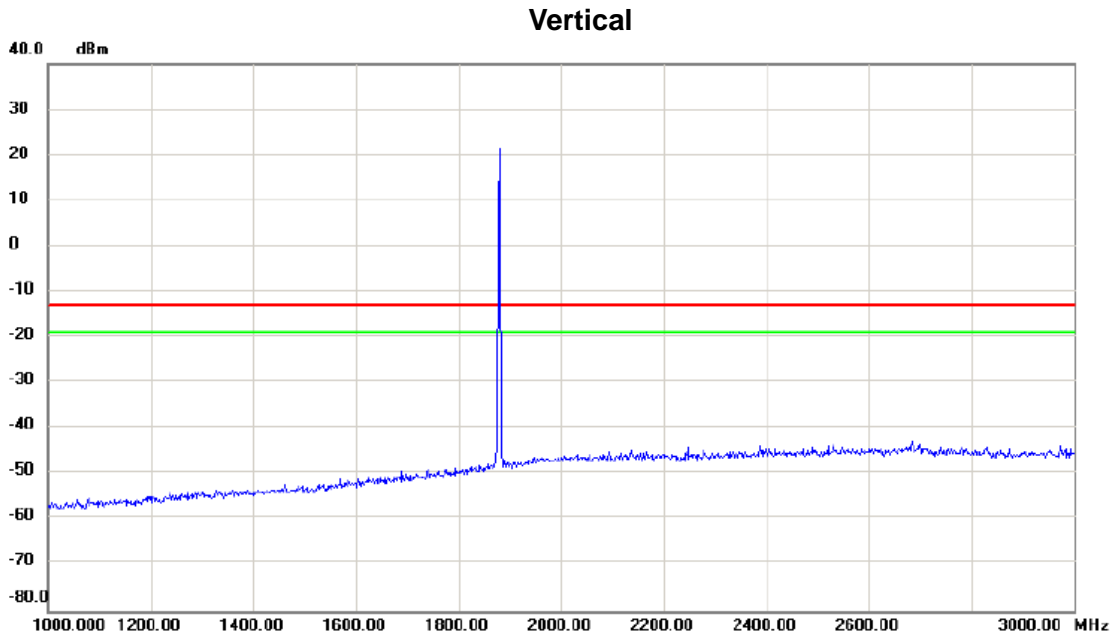
Test Mode: LTE Band 2_TX CH18900_1.4M

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		37.760	-69.97	1.28	-68.69	-13.00	-55.69	peak	
2		62.010	-71.73	-0.97	-72.70	-13.00	-59.70	peak	
3		85.290	-63.36	-7.88	-71.24	-13.00	-58.24	peak	
4	*	160.950	-68.56	2.35	-66.21	-13.00	-53.21	peak	
5		195.870	-65.47	-1.77	-67.24	-13.00	-54.24	peak	
6		377.260	-77.90	5.77	-72.13	-13.00	-59.13	peak	

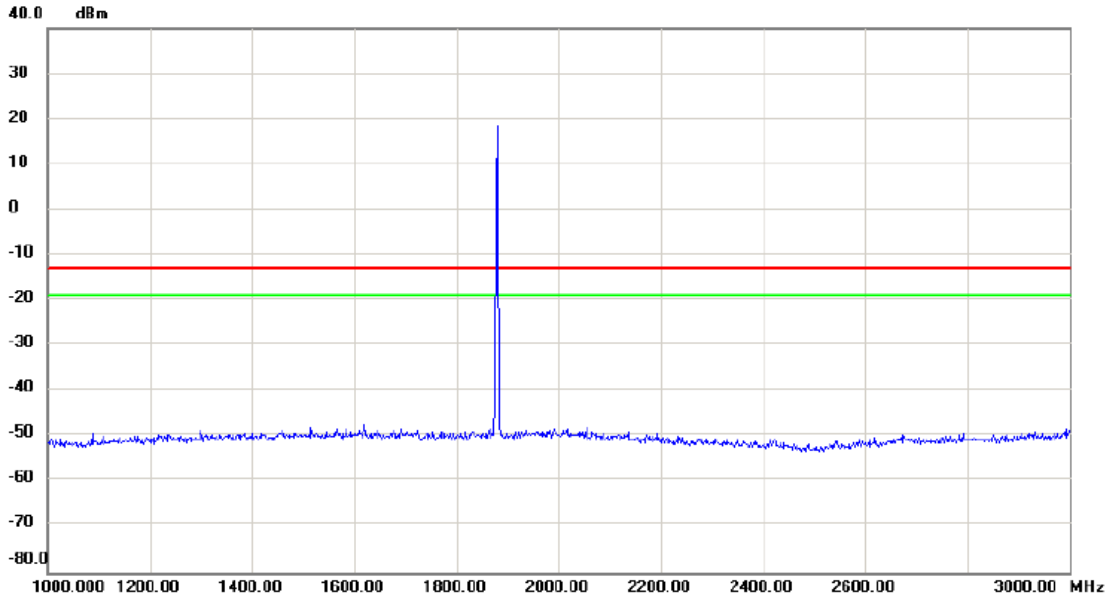
Test Mode: LTE Band 2_TX CH18900_1.4M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
		1890.00	20.00	0.00	20.00	-15.00	35.00		

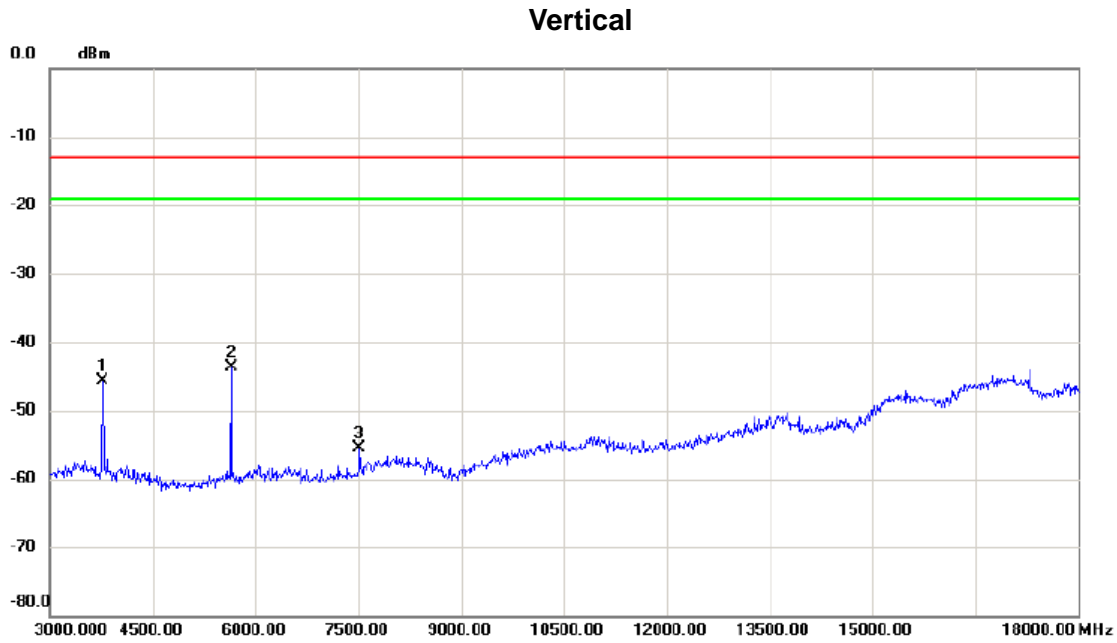
Test Mode: LTE Band 2_TX CH18900_1.4M

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
		1900.00	18.00	0.00	18.00	-15.00	3.00		

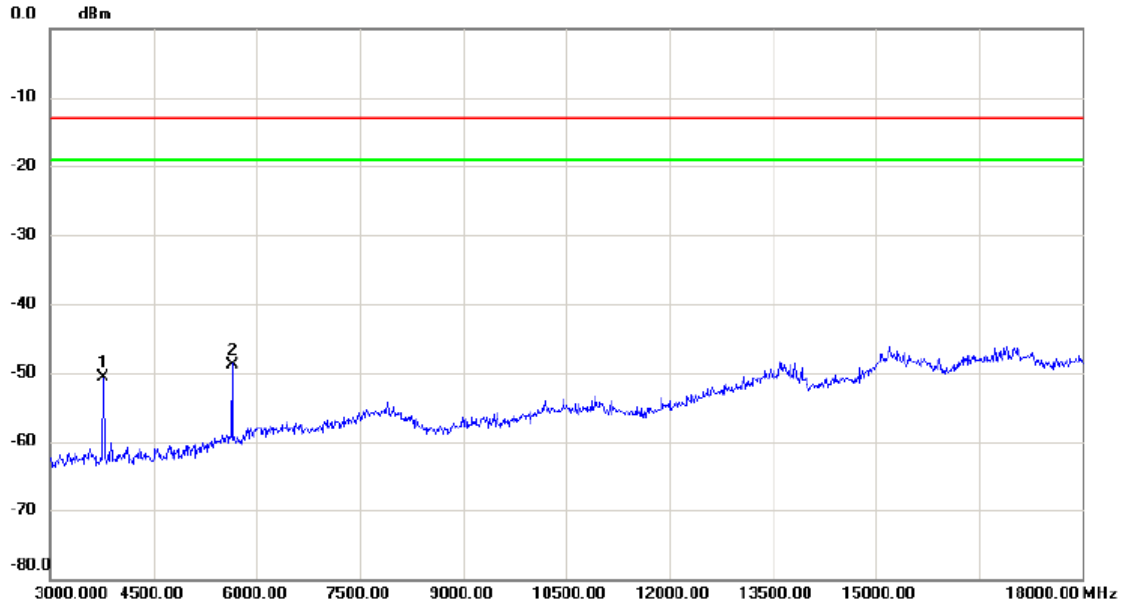
Test Mode: LTE Band 2_TX CH18900_1.4M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3765.000	-60.12	14.51	-45.61	-13.00	-32.61	peak	
2	*	5640.000	-59.92	16.31	-43.61	-13.00	-30.61	peak	
3		7515.000	-73.49	17.92	-55.57	-13.00	-42.57	peak	

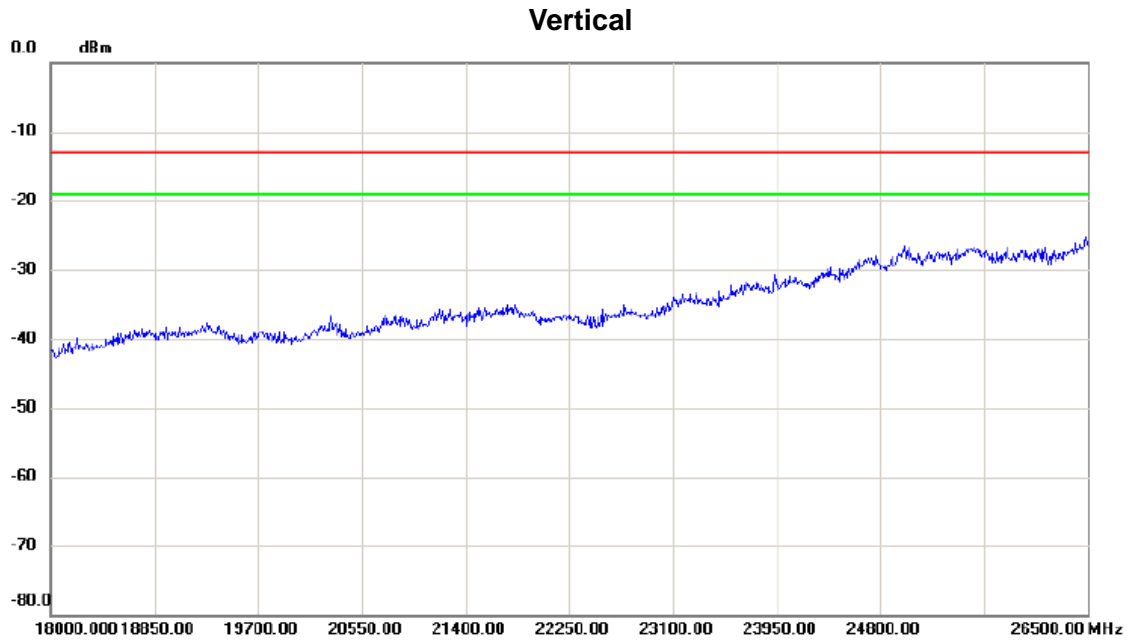
Test Mode: LTE Band 2_TX CH18900_1.4M

Horizontal



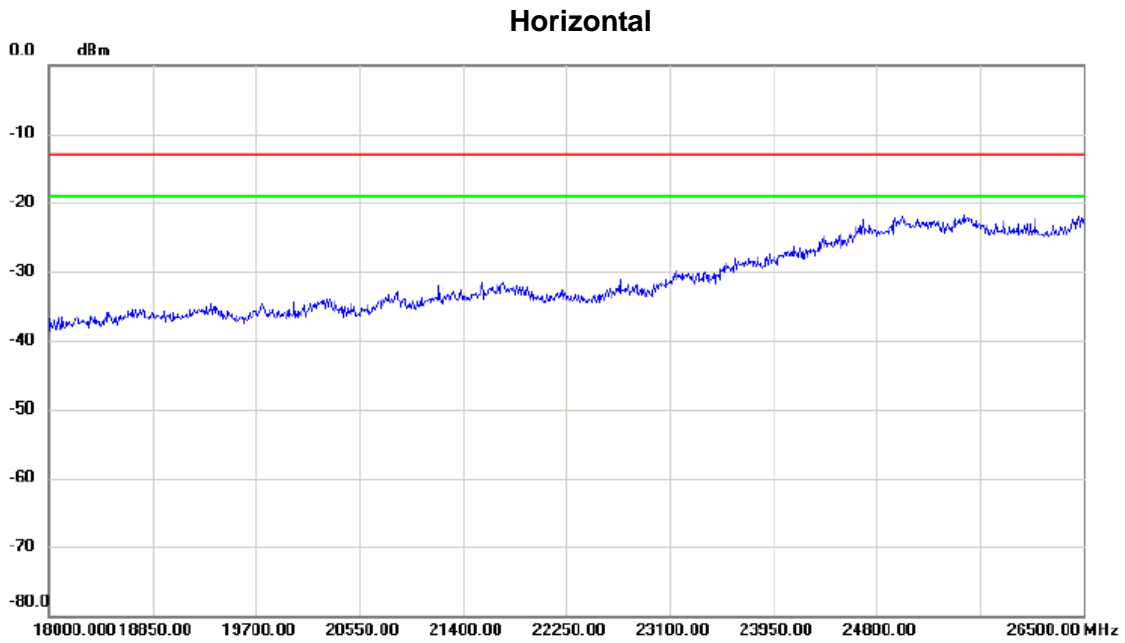
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3765.000	-62.10	11.36	-50.74	-13.00	-37.74	peak	
2	*	5640.000	-65.84	17.04	-48.80	-13.00	-35.80	peak	

Test Mode: LTE Band 2_TX CH18900_1.4M



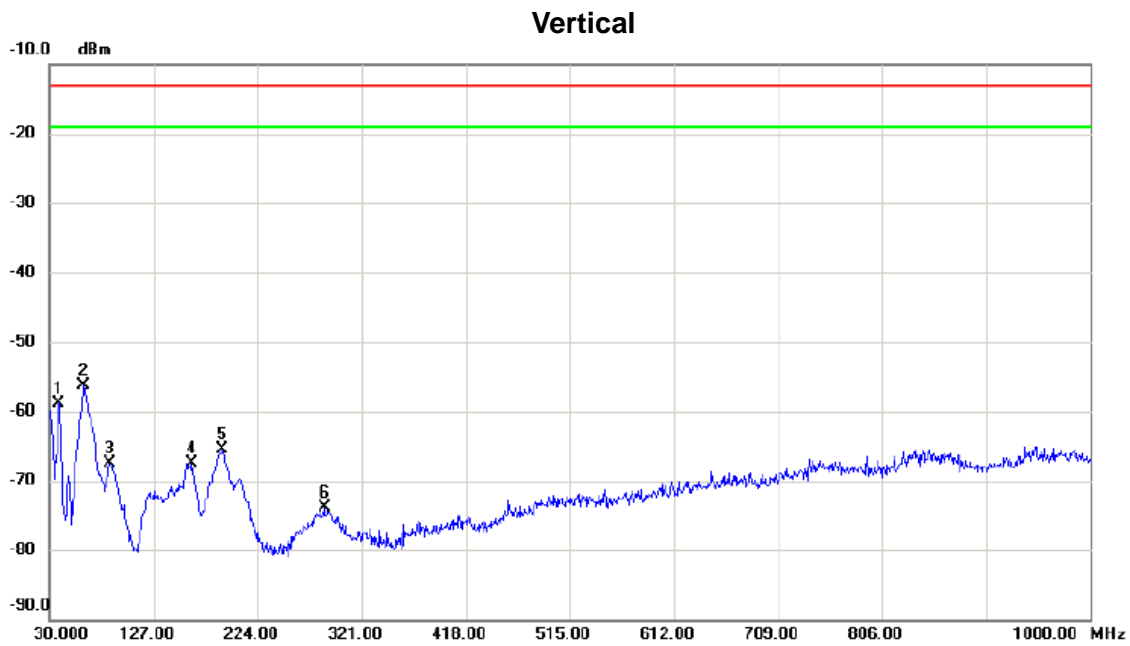
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		

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

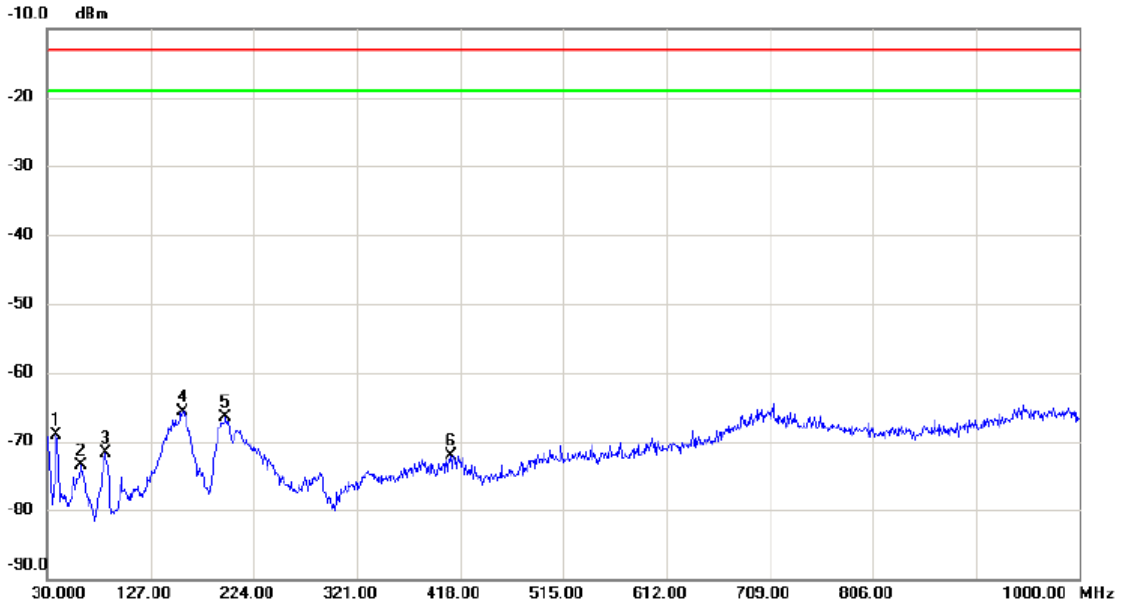
Test Mode: LTE Band 2_TX CH18900_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		38.730	-60.09	1.21	-58.88	-13.00	-45.88	peak	
2	*	62.010	-57.10	0.73	-56.37	-13.00	-43.37	peak	
3		86.260	-61.66	-5.91	-67.57	-13.00	-54.57	peak	
4		161.920	-70.03	2.55	-67.48	-13.00	-54.48	peak	
5		191.020	-63.70	-1.85	-65.55	-13.00	-52.55	peak	
6		286.080	-76.28	2.39	-73.89	-13.00	-60.89	peak	

Test Mode: LTE Band 2_TX CH18900_20M

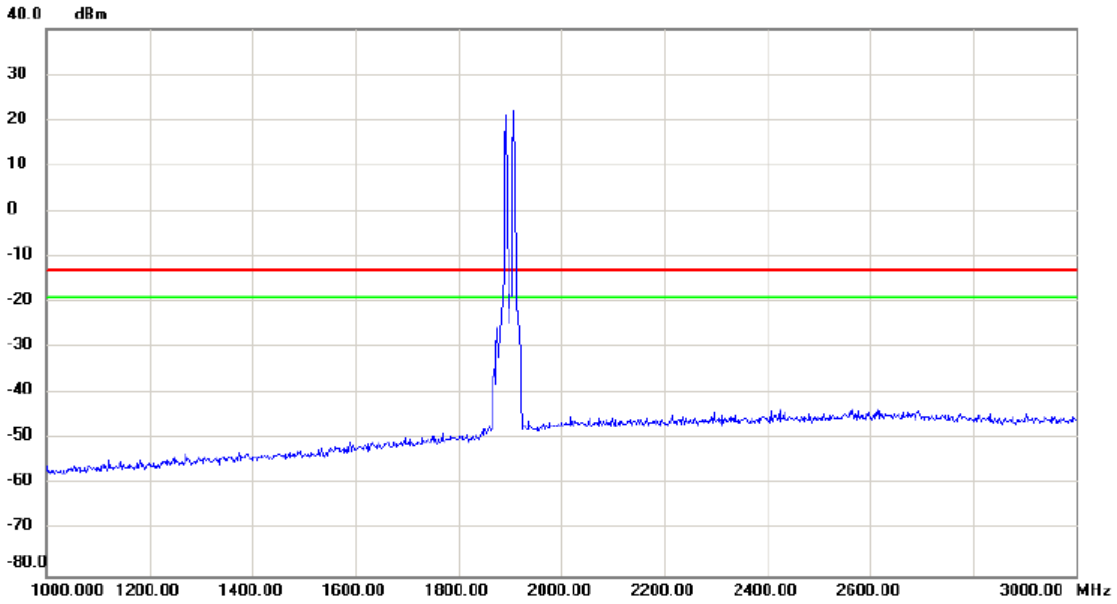
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		38.730	-70.65	1.63	-69.02	-13.00	-56.02	peak	
2		61.040	-72.62	-0.87	-73.49	-13.00	-60.49	peak	
3		84.320	-63.77	-7.87	-71.64	-13.00	-58.64	peak	
4	*	157.070	-68.82	3.19	-65.63	-13.00	-52.63	peak	
5		197.810	-64.75	-1.84	-66.59	-13.00	-53.59	peak	
6		409.270	-78.48	6.34	-72.14	-13.00	-59.14	peak	

Test Mode: LTE Band 2_TX CH18900_20M

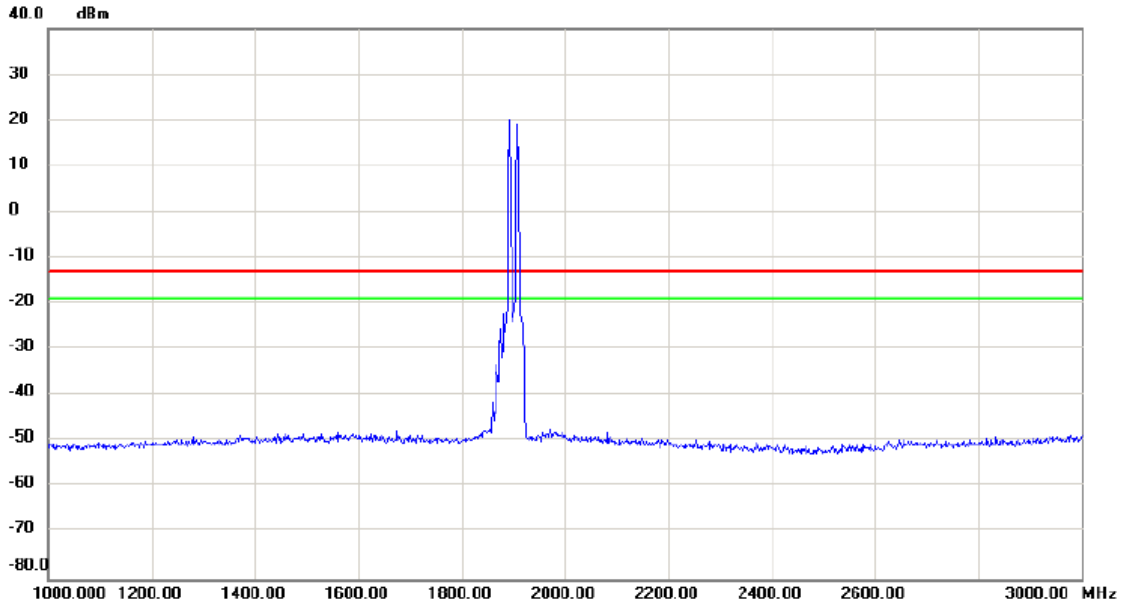
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1900.00	20.00	0.00	20.00	-15.00	5.00		

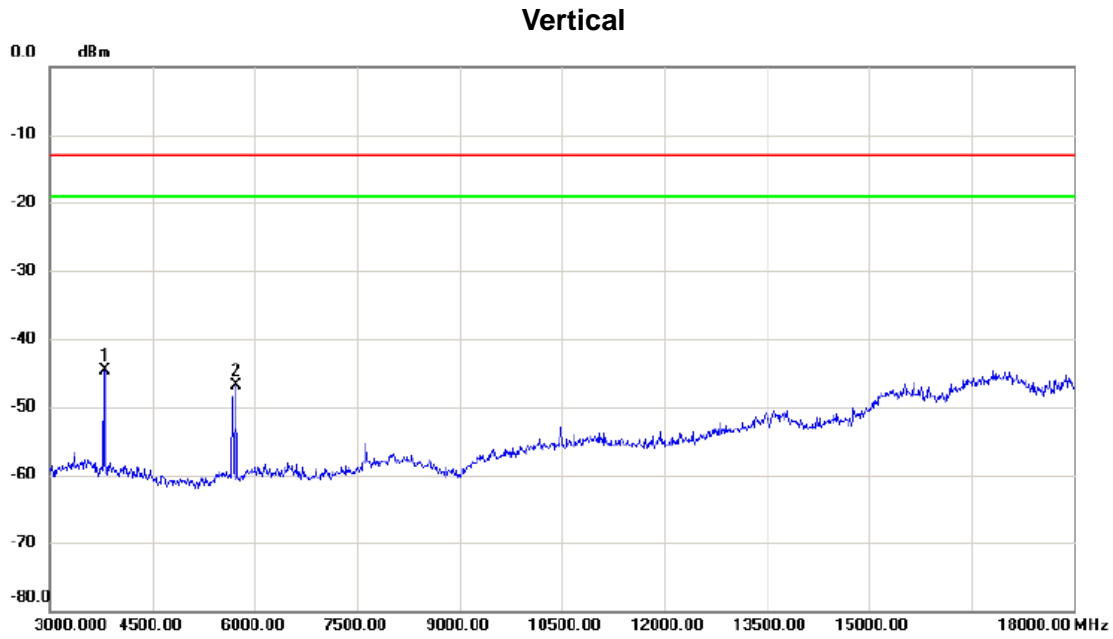
Test Mode: LTE Band 2_TX CH18900_20M

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
		1890.00	20.00		20.00	-15.00	5.00		

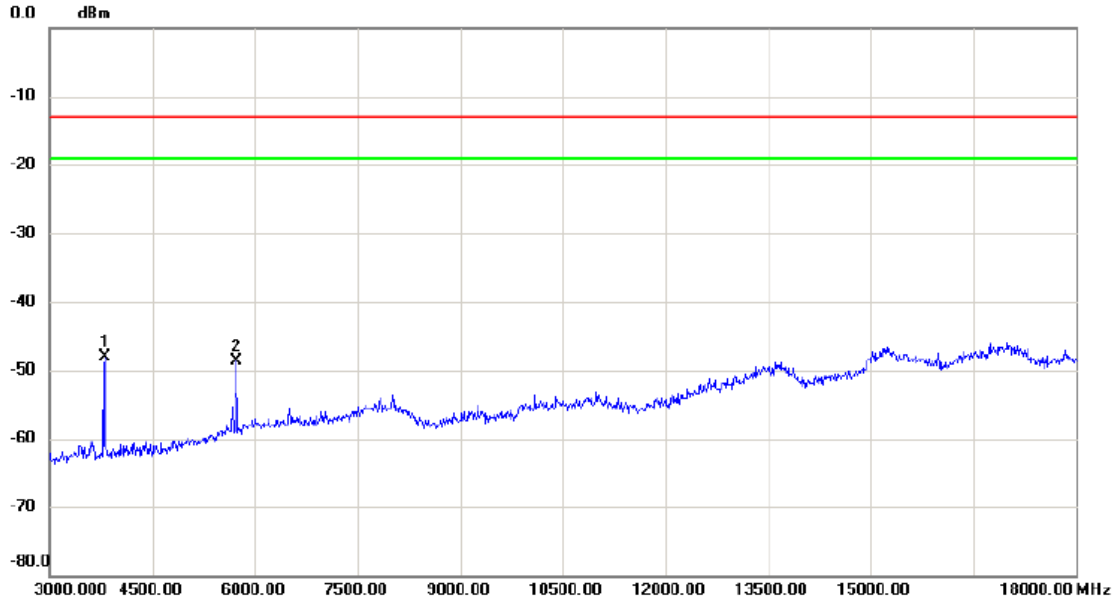
Test Mode: LTE Band 2_TX CH18900_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3810.000	-59.26	14.56	-44.70	-13.00	-31.70	peak	
2		5730.000	-63.37	16.46	-46.91	-13.00	-33.91	peak	

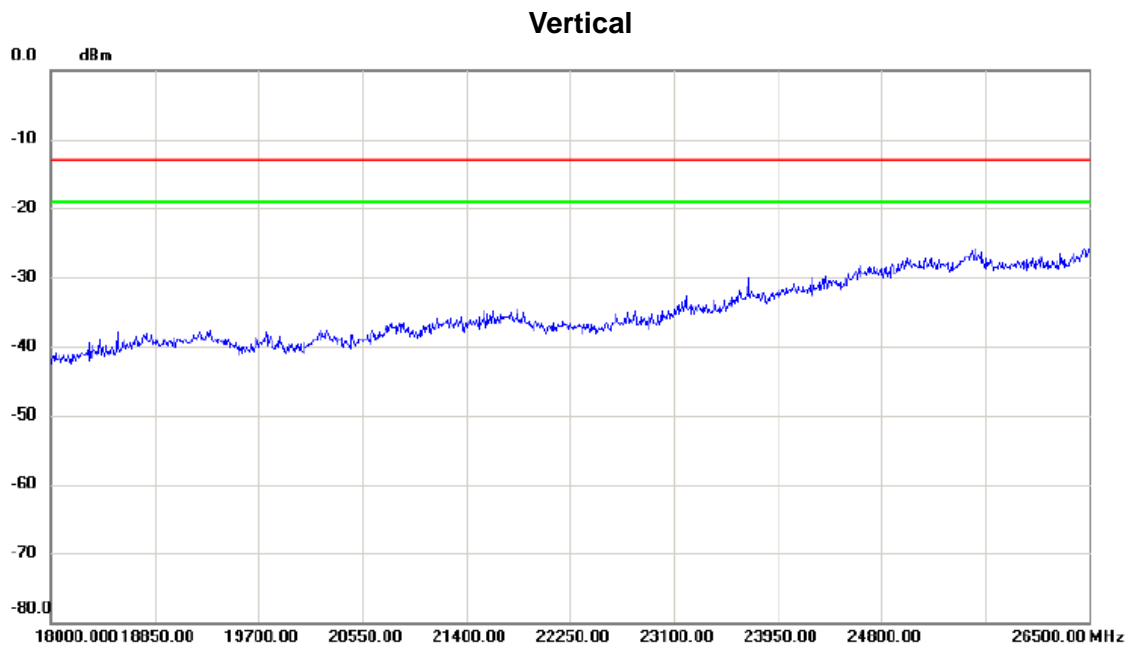
Test Mode: LTE Band 2_TX CH18900_20M

Horizontal



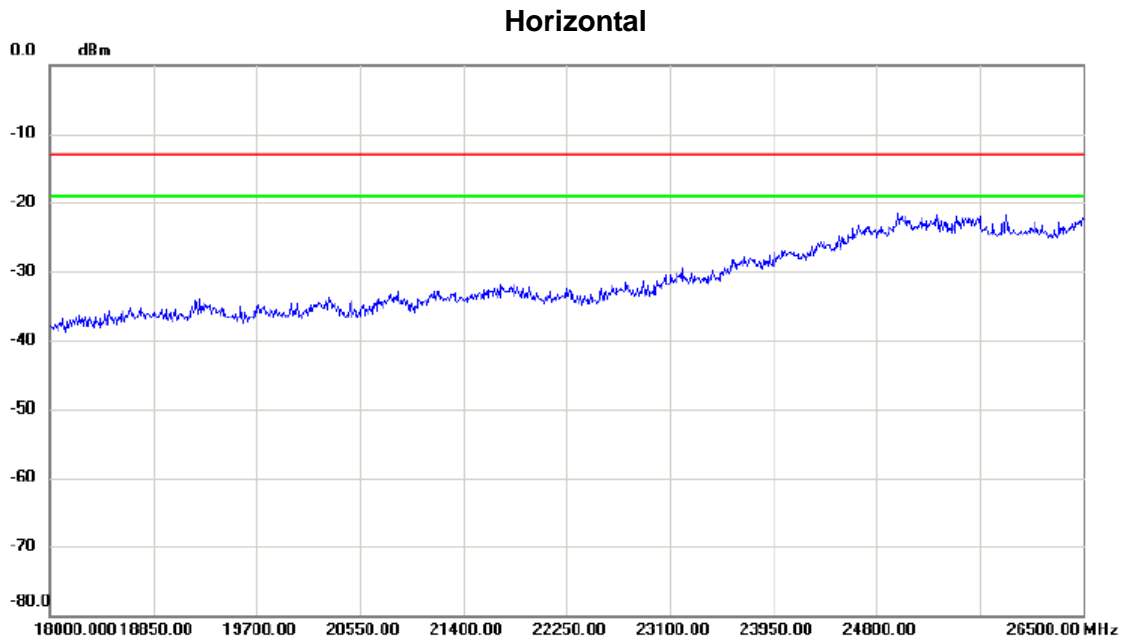
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3810.000	-59.54	11.48	-48.06	-13.00	-35.06	peak	
2		5730.000	-66.09	17.33	-48.76	-13.00	-35.76	peak	

Test Mode: LTE Band 2_TX CH18900_20M



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

Test Mode: LTE Band 2_TX CH18900_20M



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

DCS1900

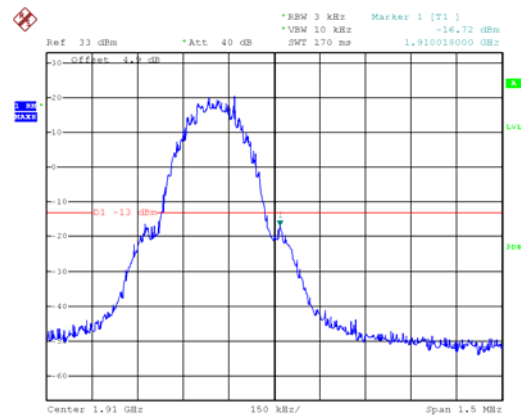
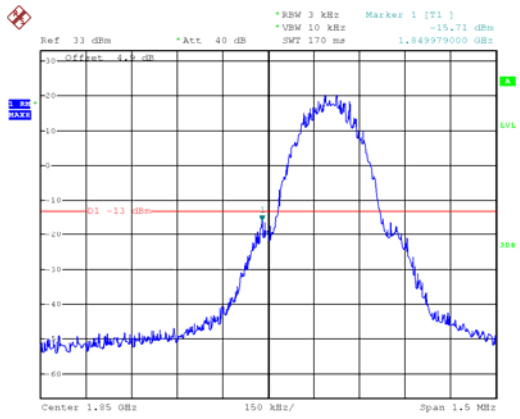
GSM

Channel

512

Channel

810



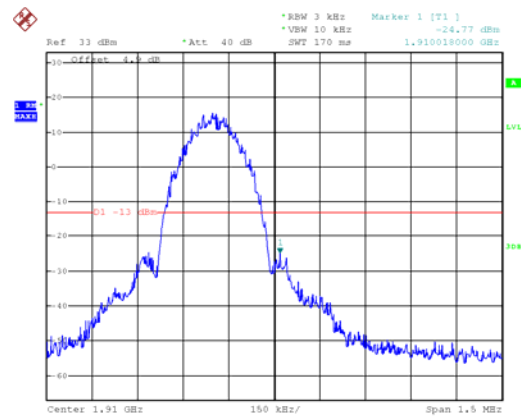
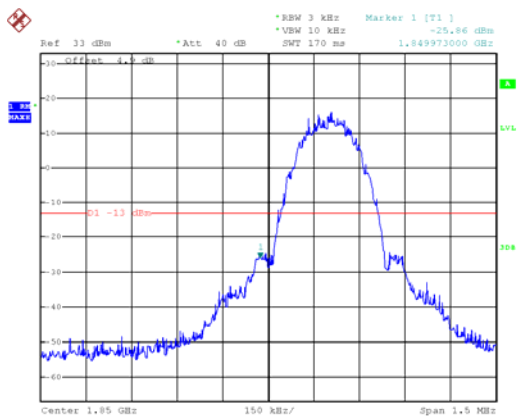
EDGE

Channel

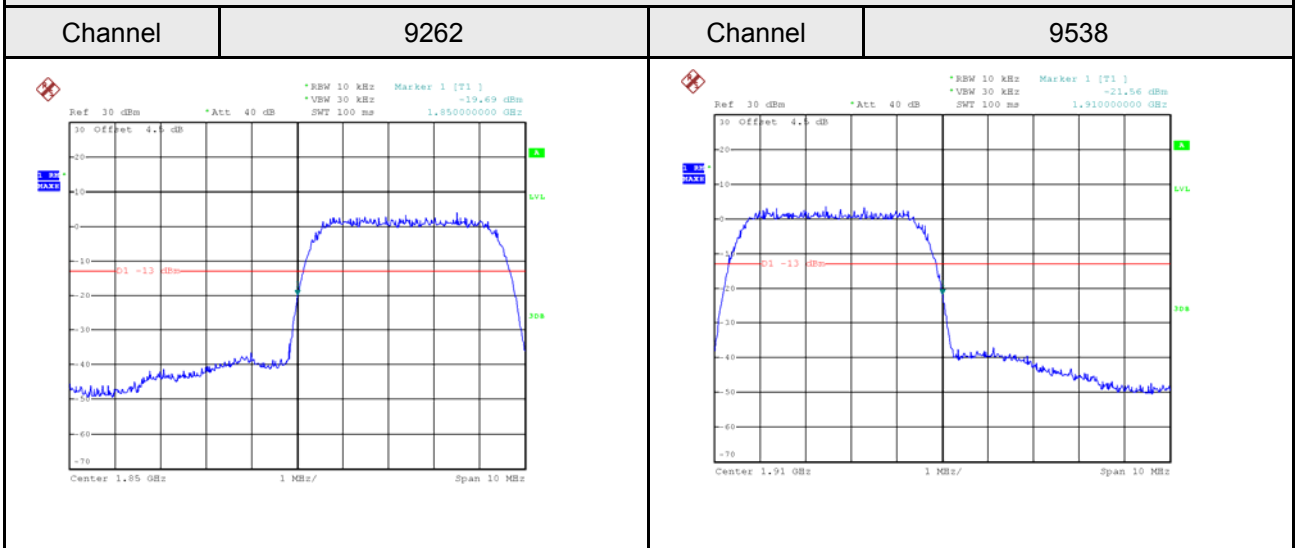
512

Channel

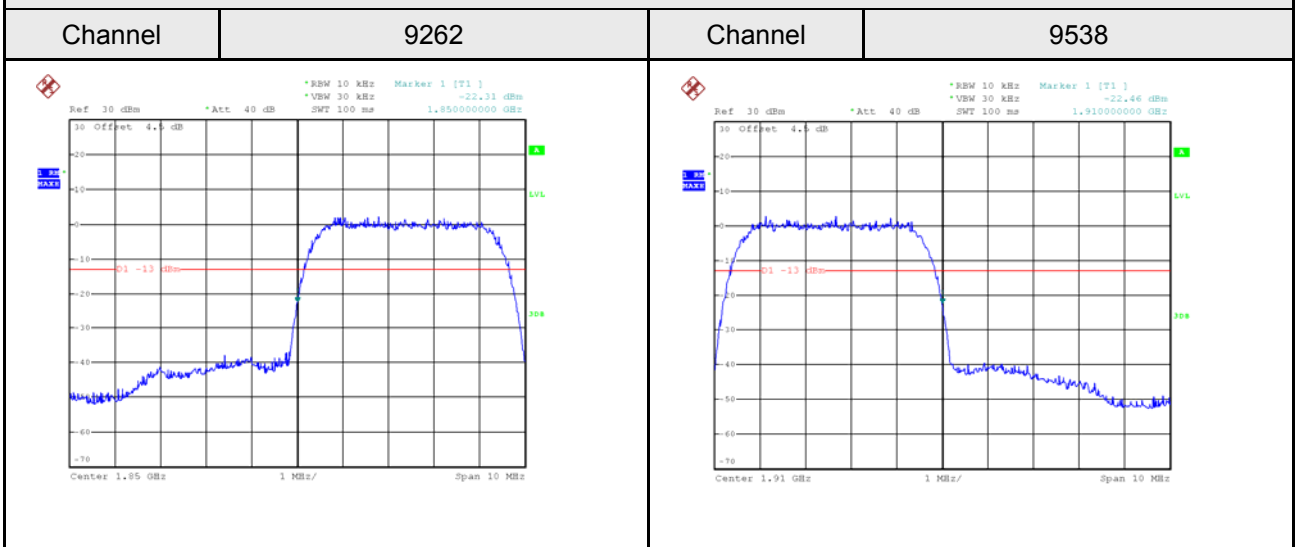
810



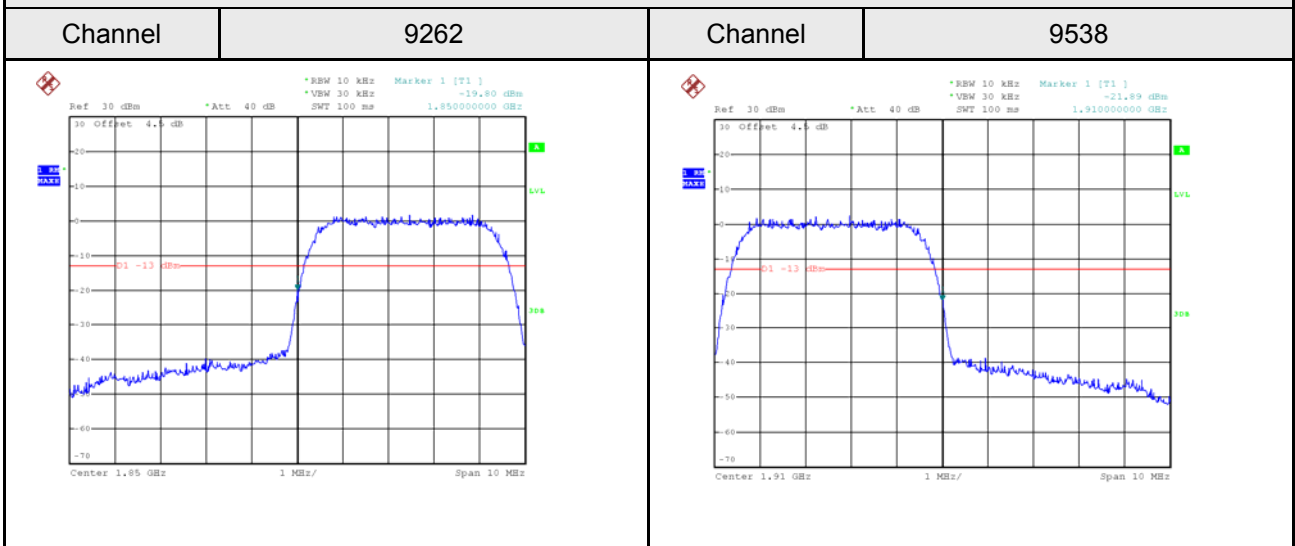
WCDMA Band 2



WCDMA_HSDPA Band 2



WCDMA_HSUPA Band 2



LTE Band 2_1.4M

1RB0

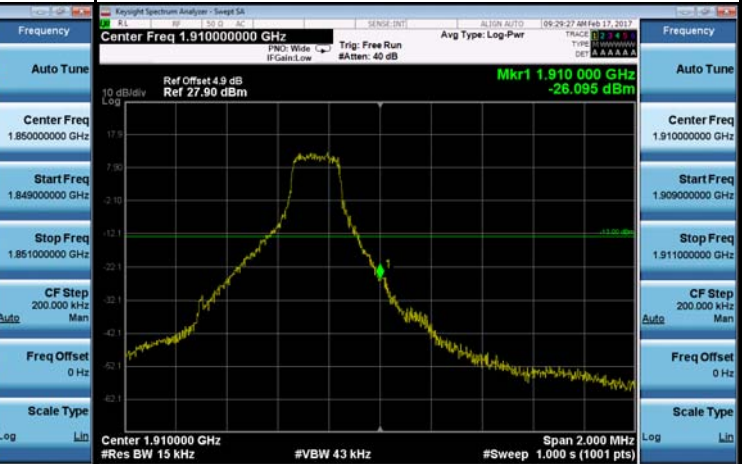
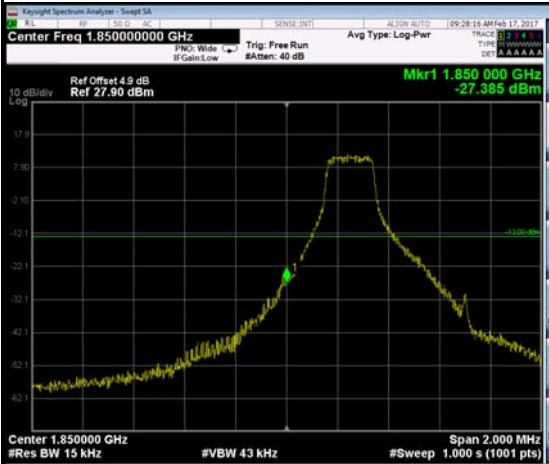
1RB5

Channel

18607

Channel

19193



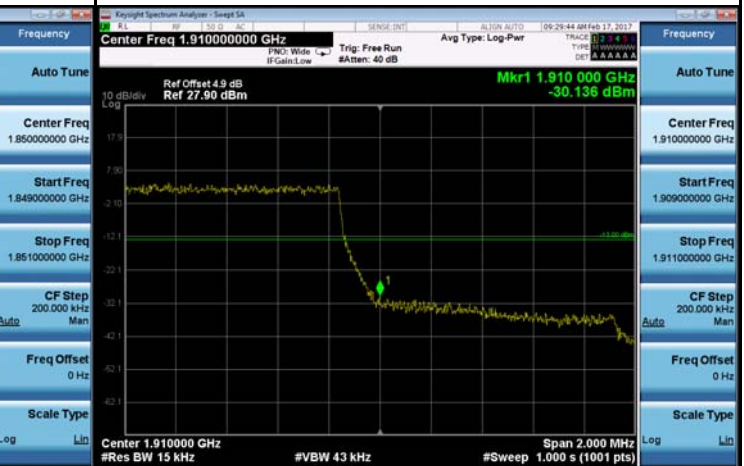
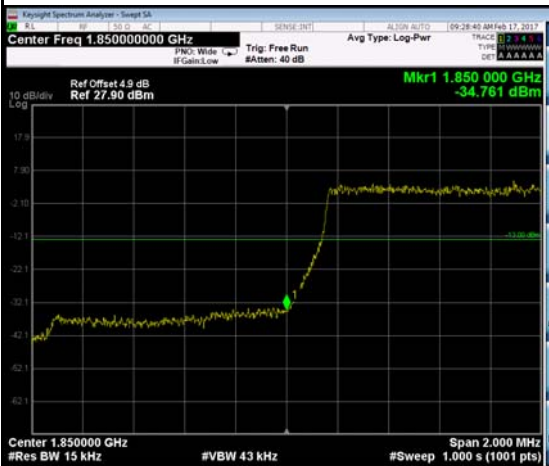
6RB0

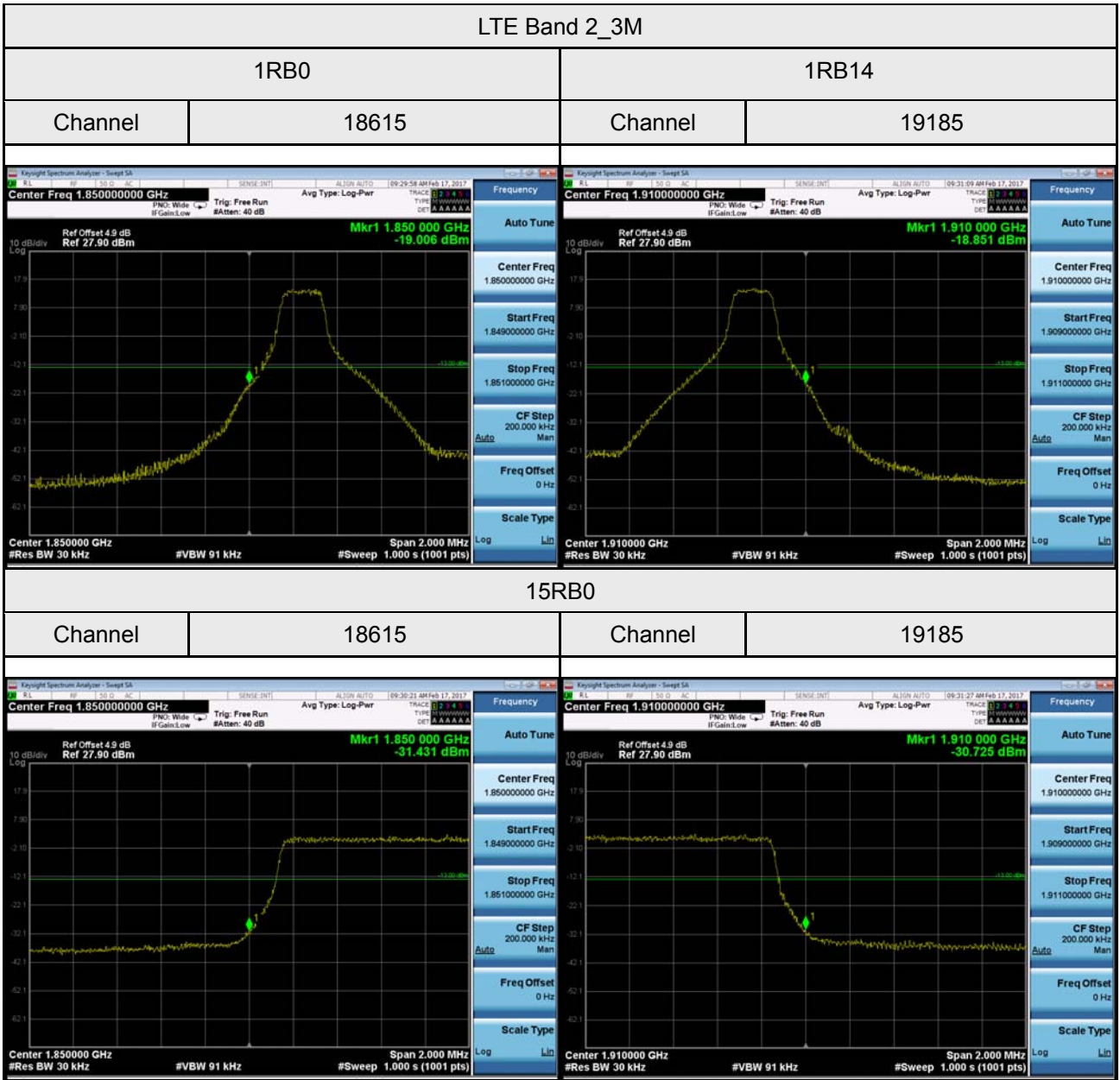
Channel

18607

Channel

19193





LTE Band 2_5M

1RB0

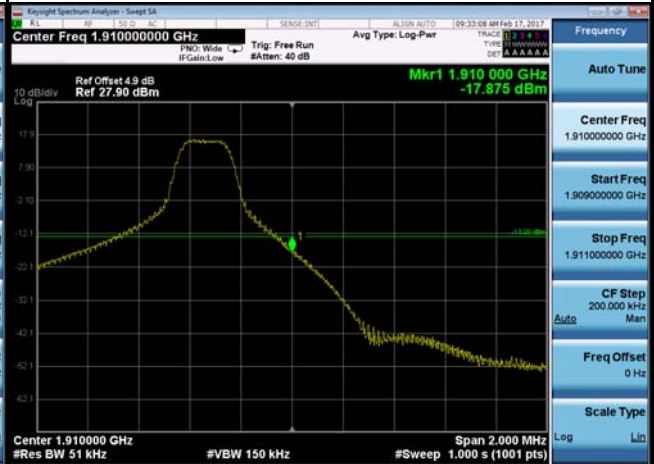
1RB24

Channel

18625

Channel

19175



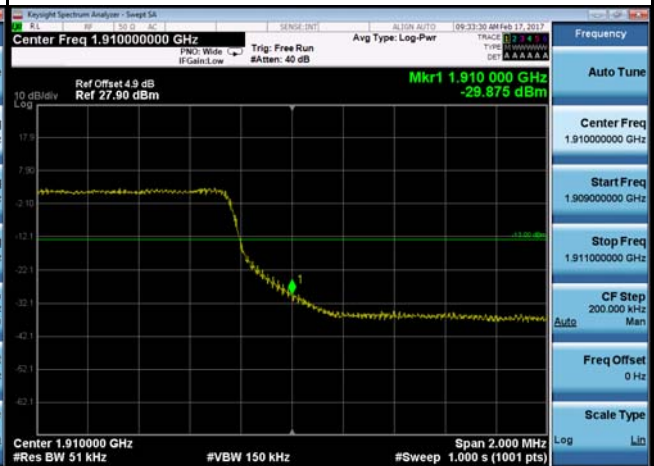
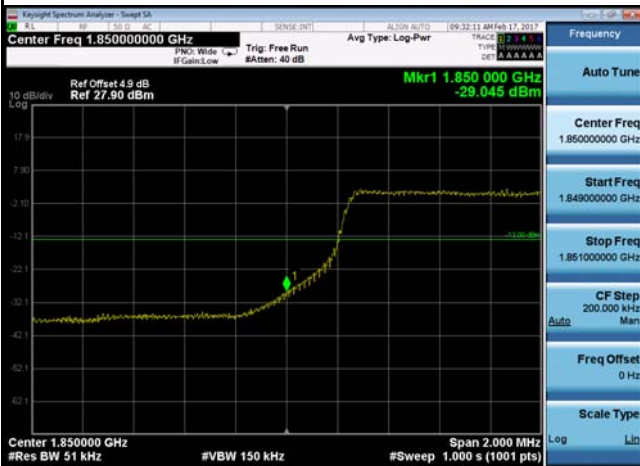
25RB0

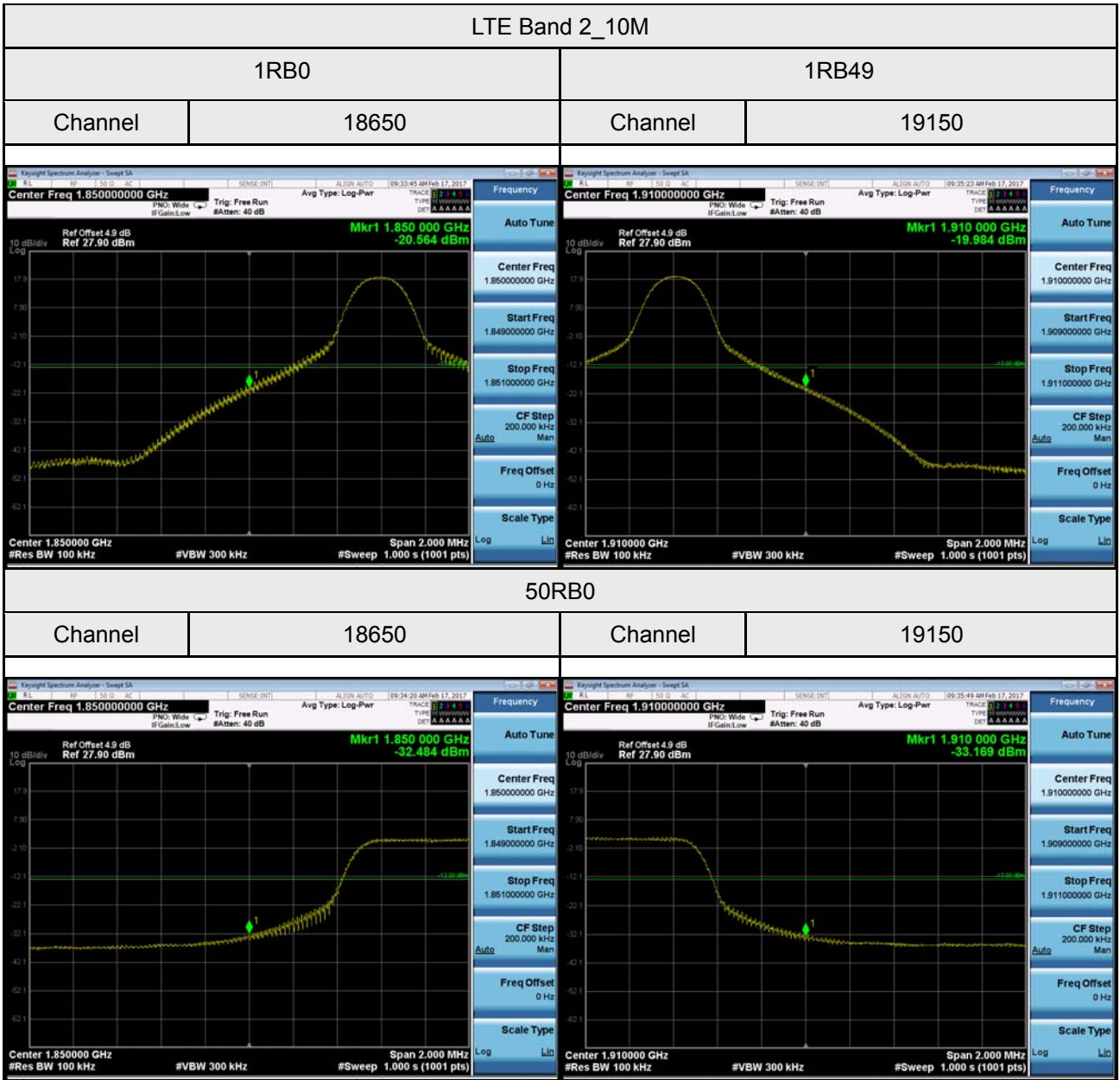
Channel

18625

Channel

19175





LTE Band 2_15M

1RB0

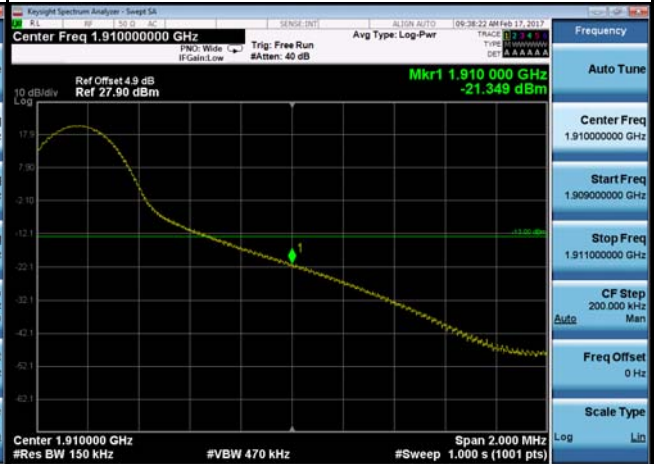
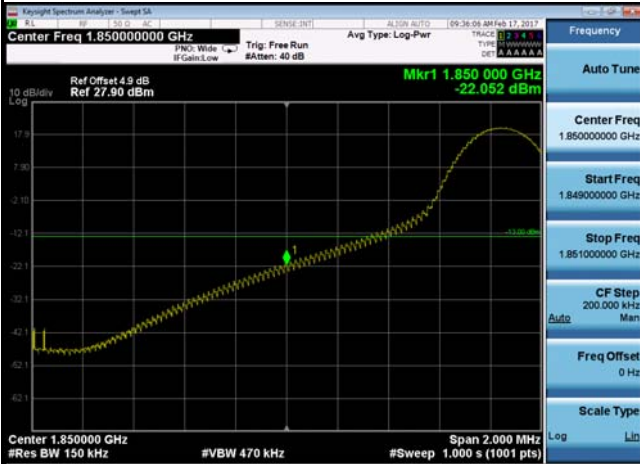
1RB74

Channel

18675

Channel

19125



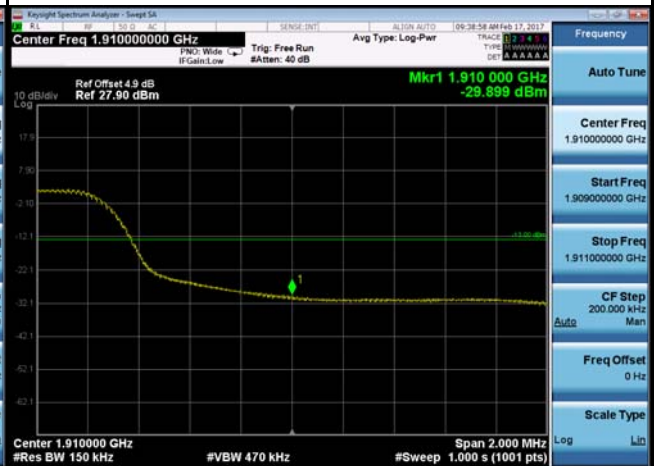
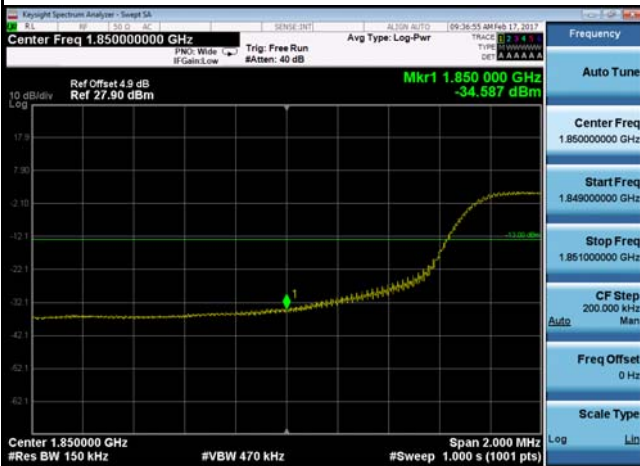
75RB0

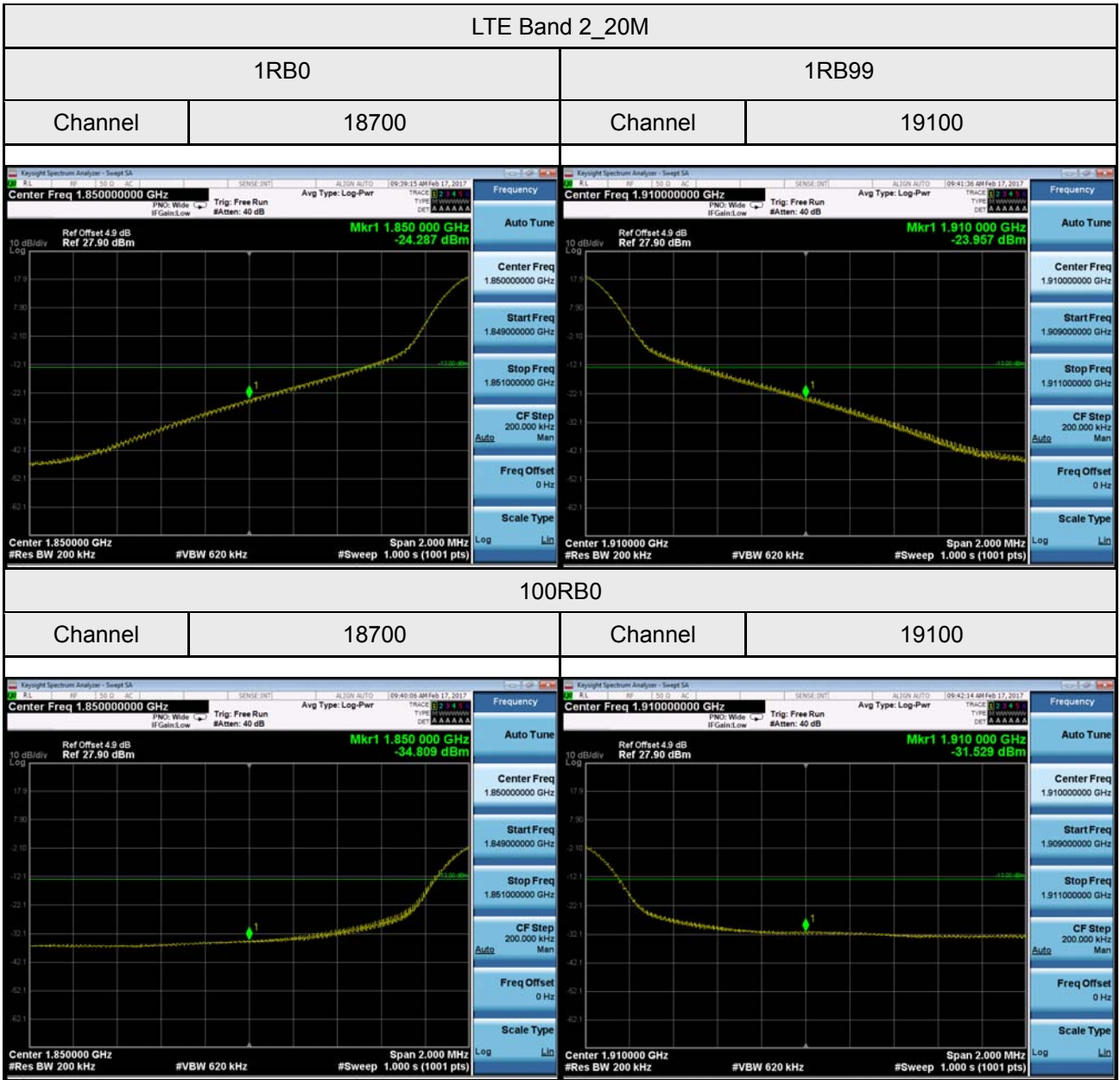
Channel

18675

Channel

19125

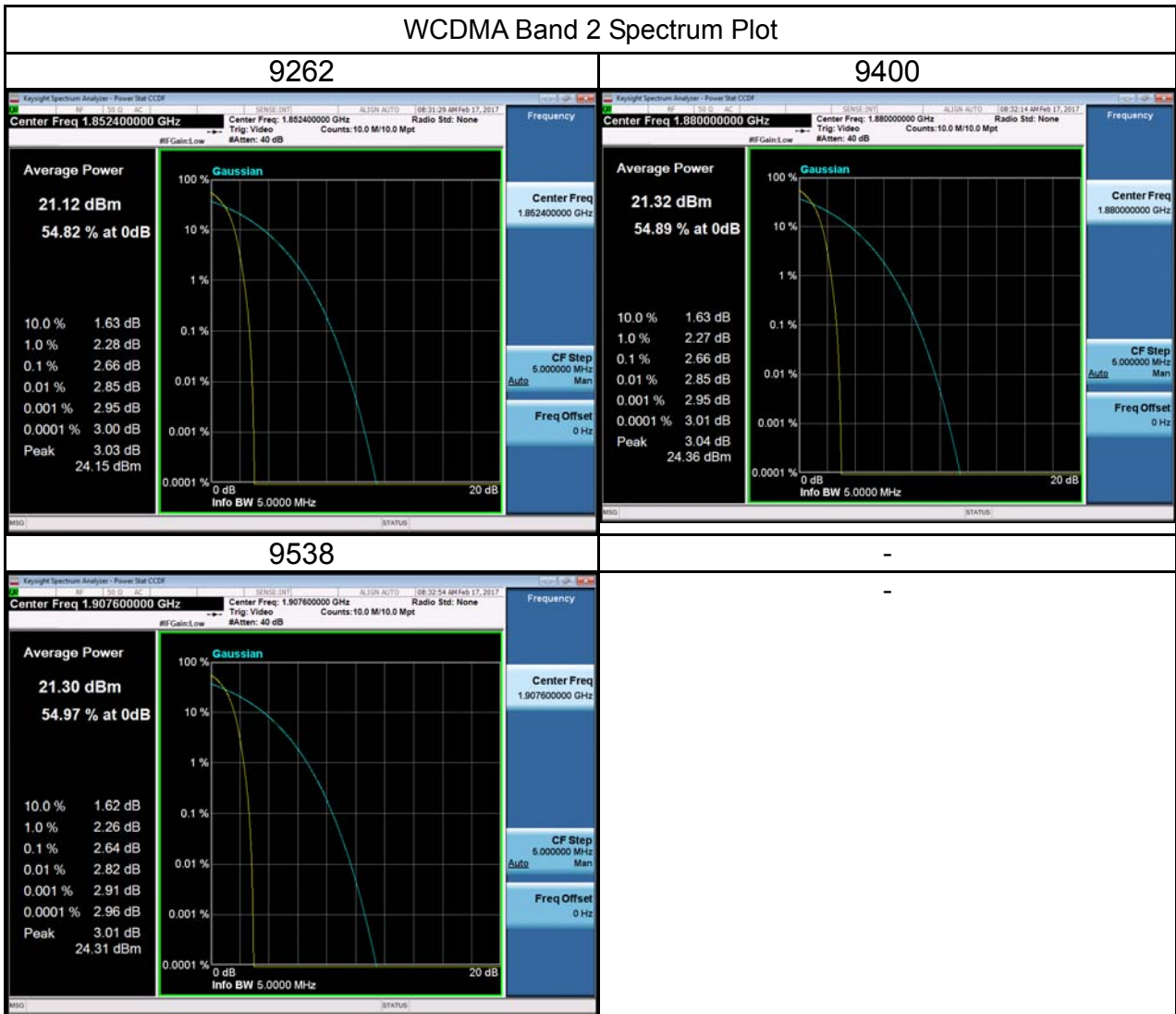




ATTACHMENT F - PEAK TO AVERAGE RATIO

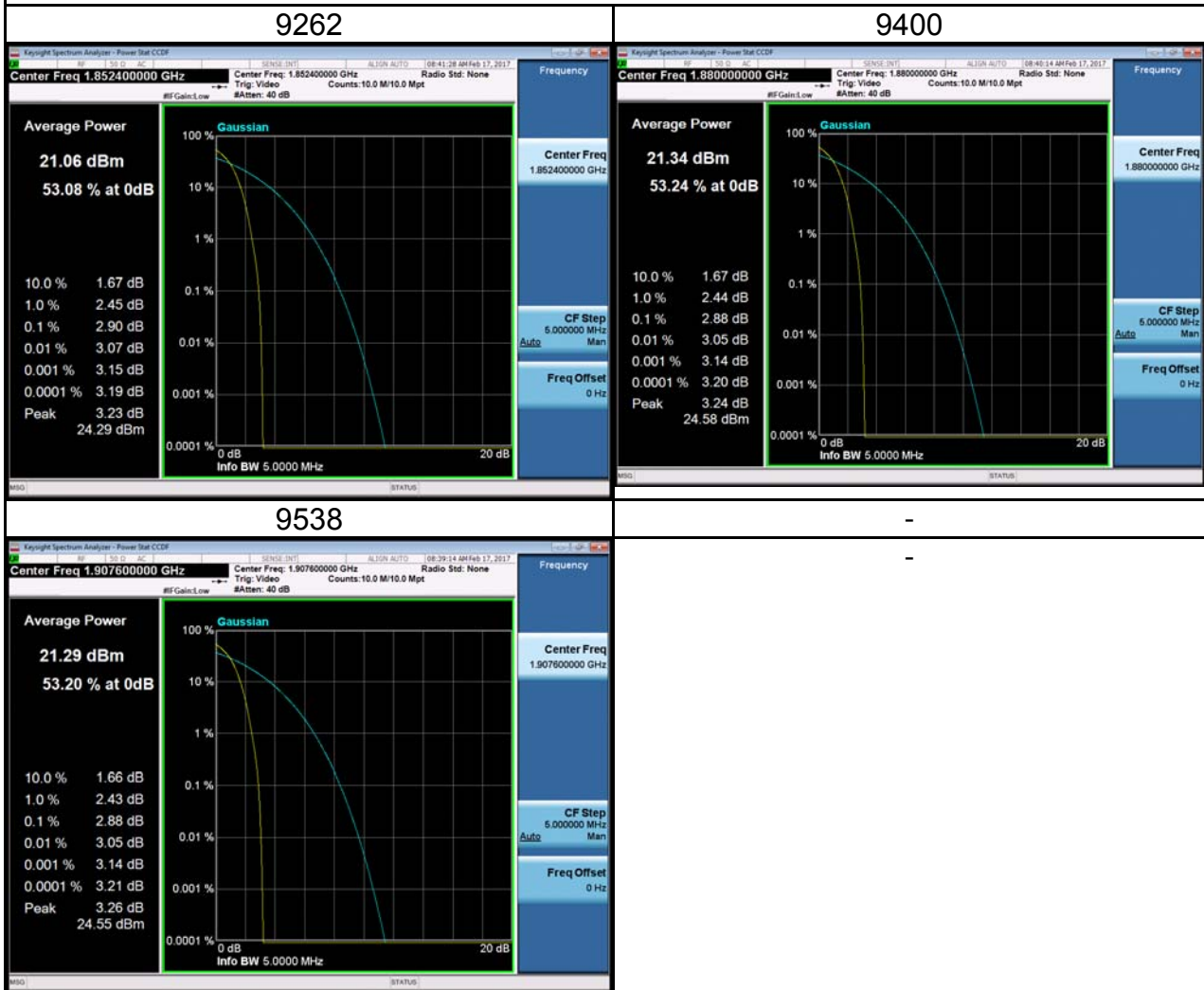
DCS1900							
GSM				EDGE			
CS				8PSK			
Channel	Frequency (MHz)	PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	PAPR (dB)	Limit (dB)
512	1850.2	0.74	13	512	1850.2	3.56	13
661	1880	0.78	13	661	1880	3.55	13
810	1909.8	0.71	13	810	1909.8	3.52	13

WCDMA Band 2			
BPSK			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
9262	1852.4	2.66	13
9400	1880	2.66	13
9538	1907.6	2.64	13

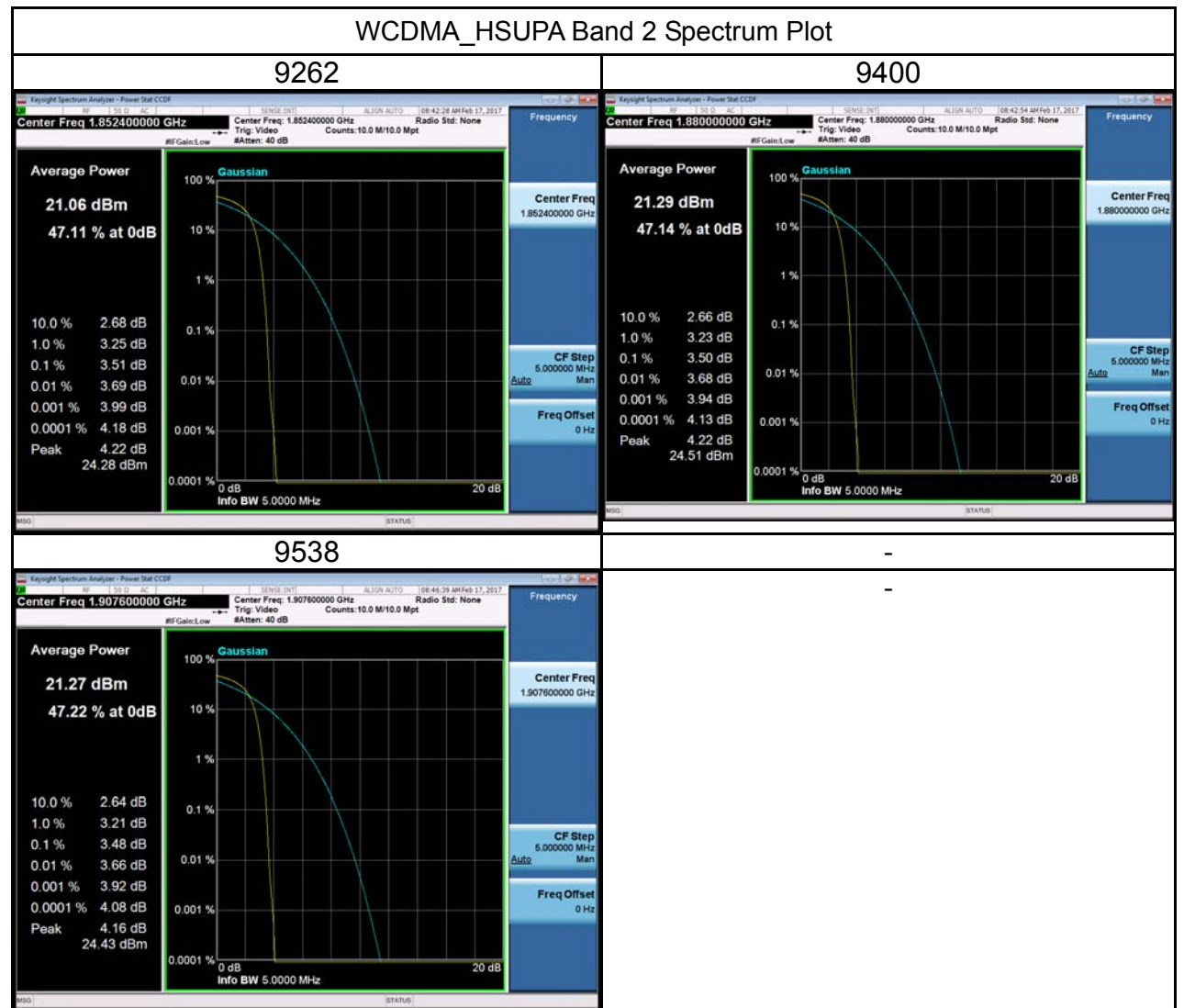


WCDMA_HSDPA Band 2			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
9262	1852.4	2.90	13
9400	1880	2.88	13
9538	1907.6	2.88	13

WCDMA_HSDPA Band 2 Spectrum Plot

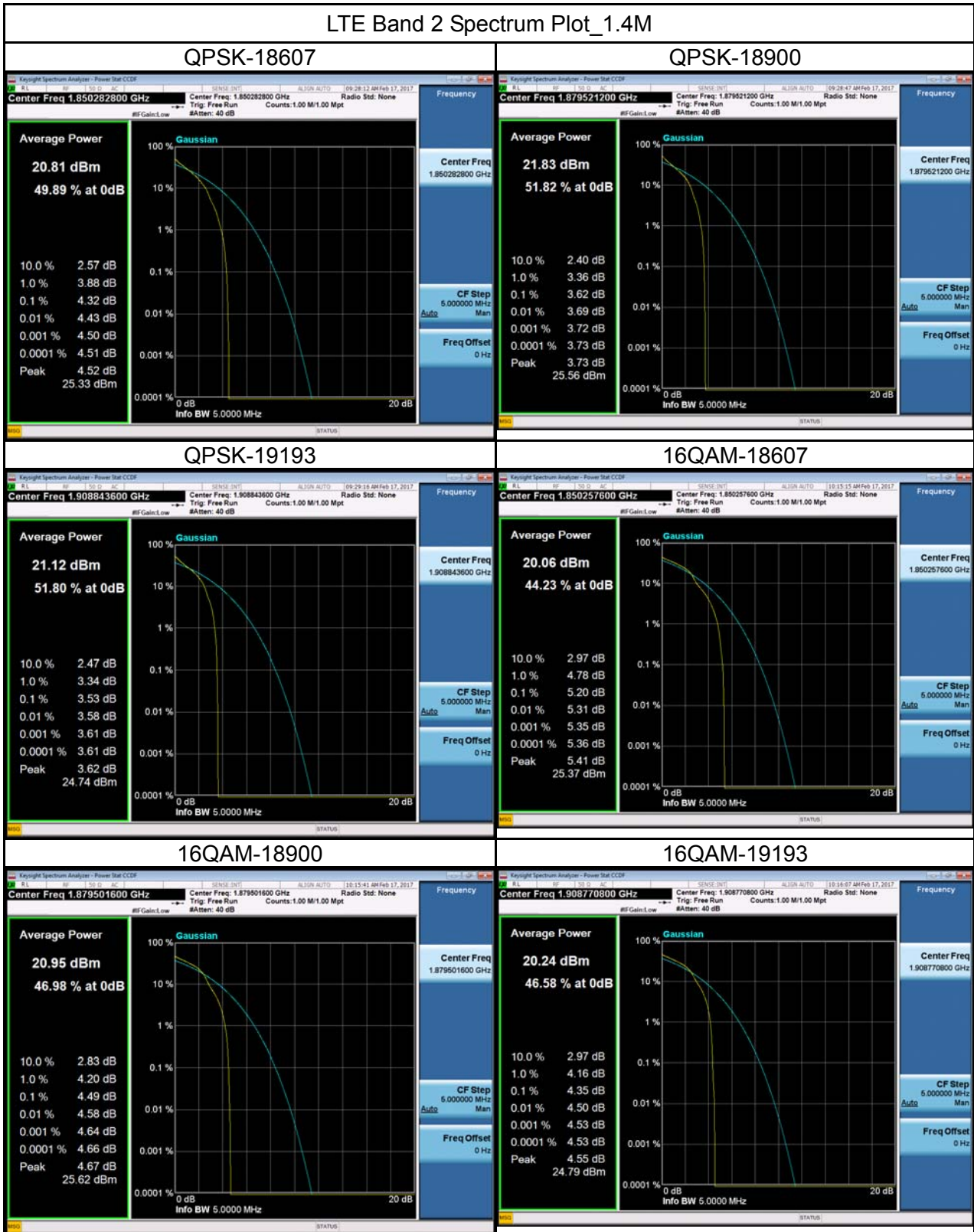


WCDMA_HSUPA Band 2			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
9262	1852.4	3.51	13
9400	1880	3.50	13
9538	1907.6	3.48	13



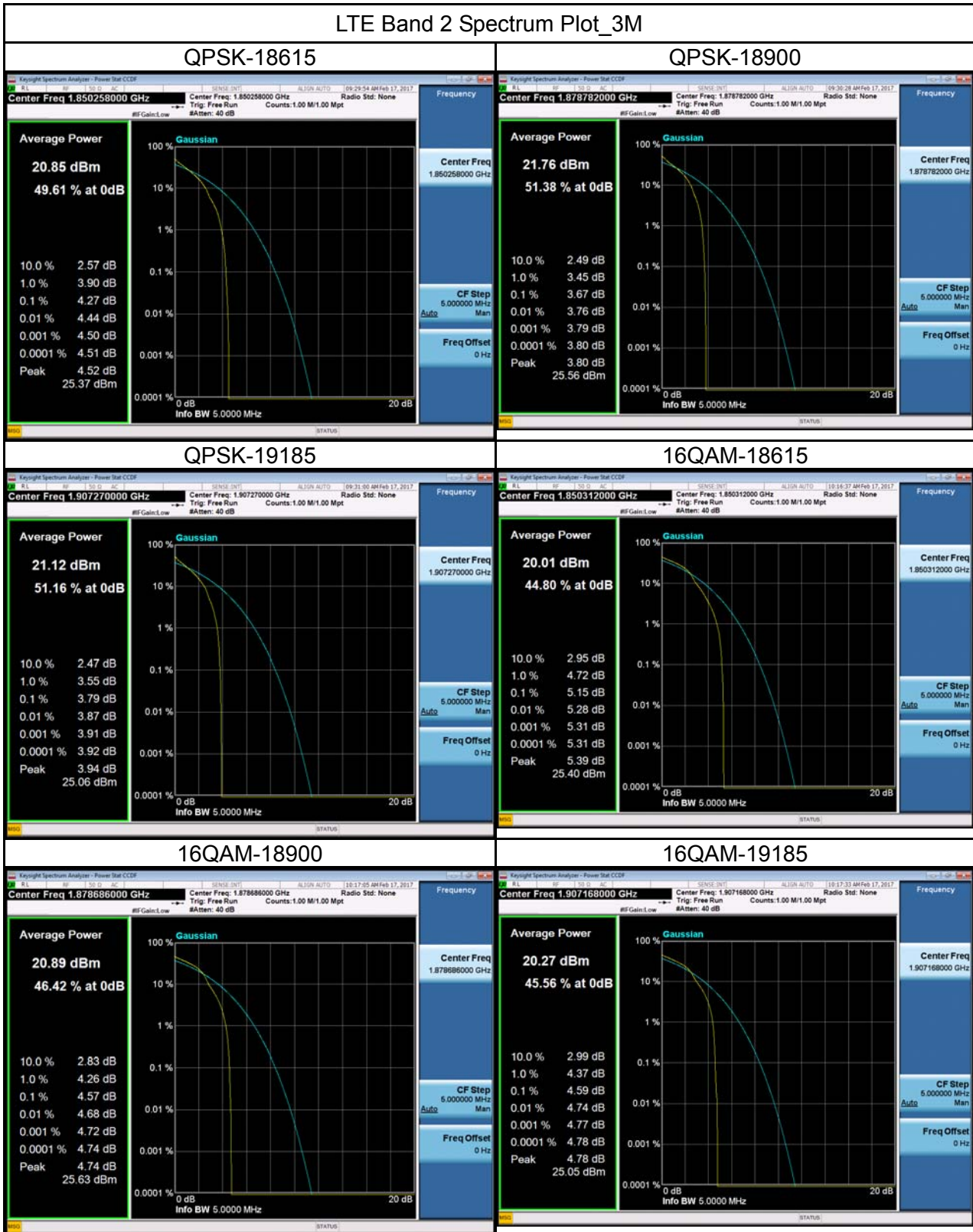
LTE Band 2_1.4M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
18607	1850.7	4.32	13	18607	1850.7	5.20	13
18900	1880	3.62	13	18900	1880	4.49	13
19193	1909.3	3.53	13	19193	1909.3	4.35	13

LTE Band 2 Spectrum Plot_1.4M



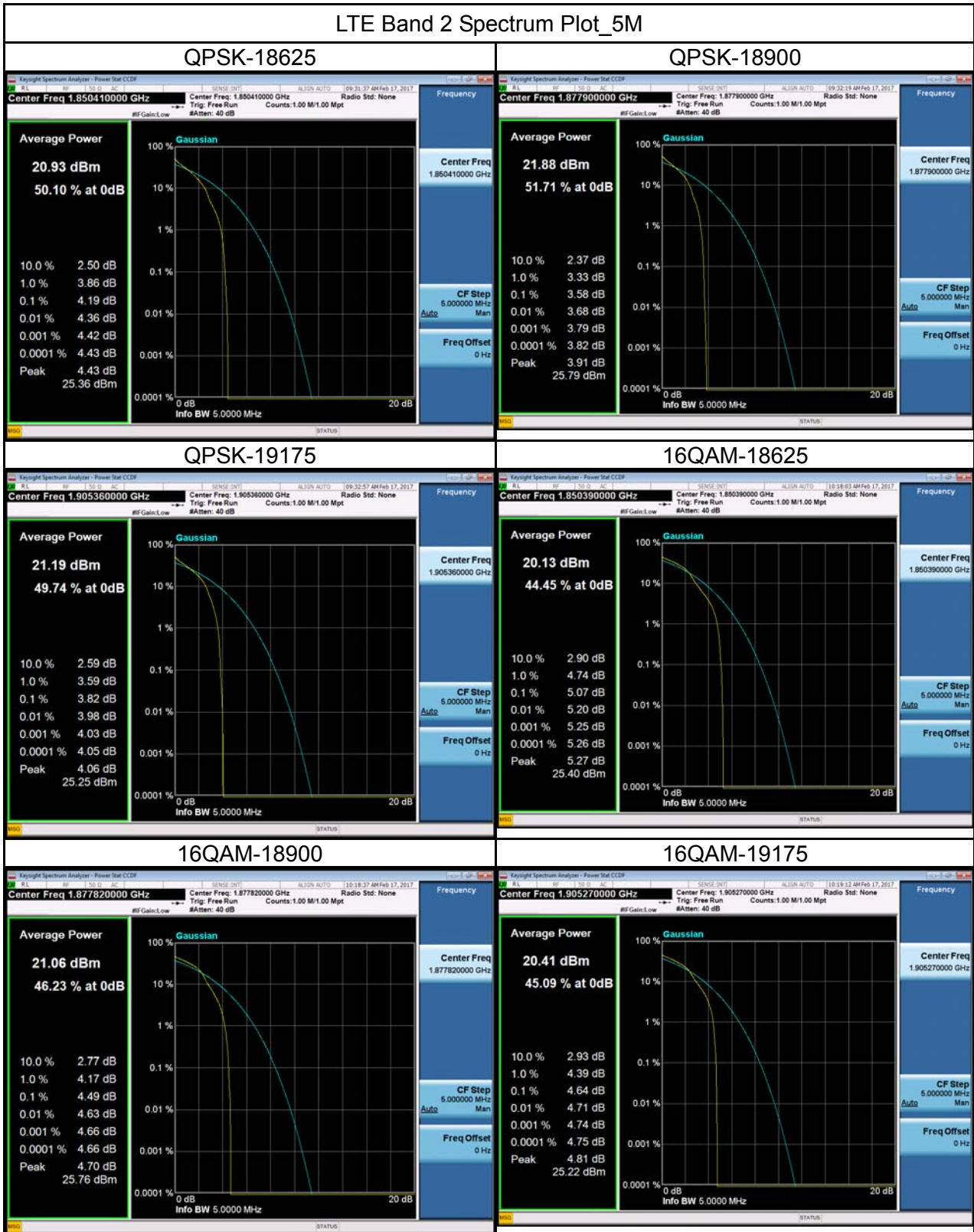
LTE Band 2_3M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
18615	1851.5	4.27	13	18615	1851.5	5.15	13
18900	1880	3.67	13	18900	1880	4.57	13
19185	1908.5	3.79	13	19185	1908.5	4.59	13

LTE Band 2 Spectrum Plot_3M



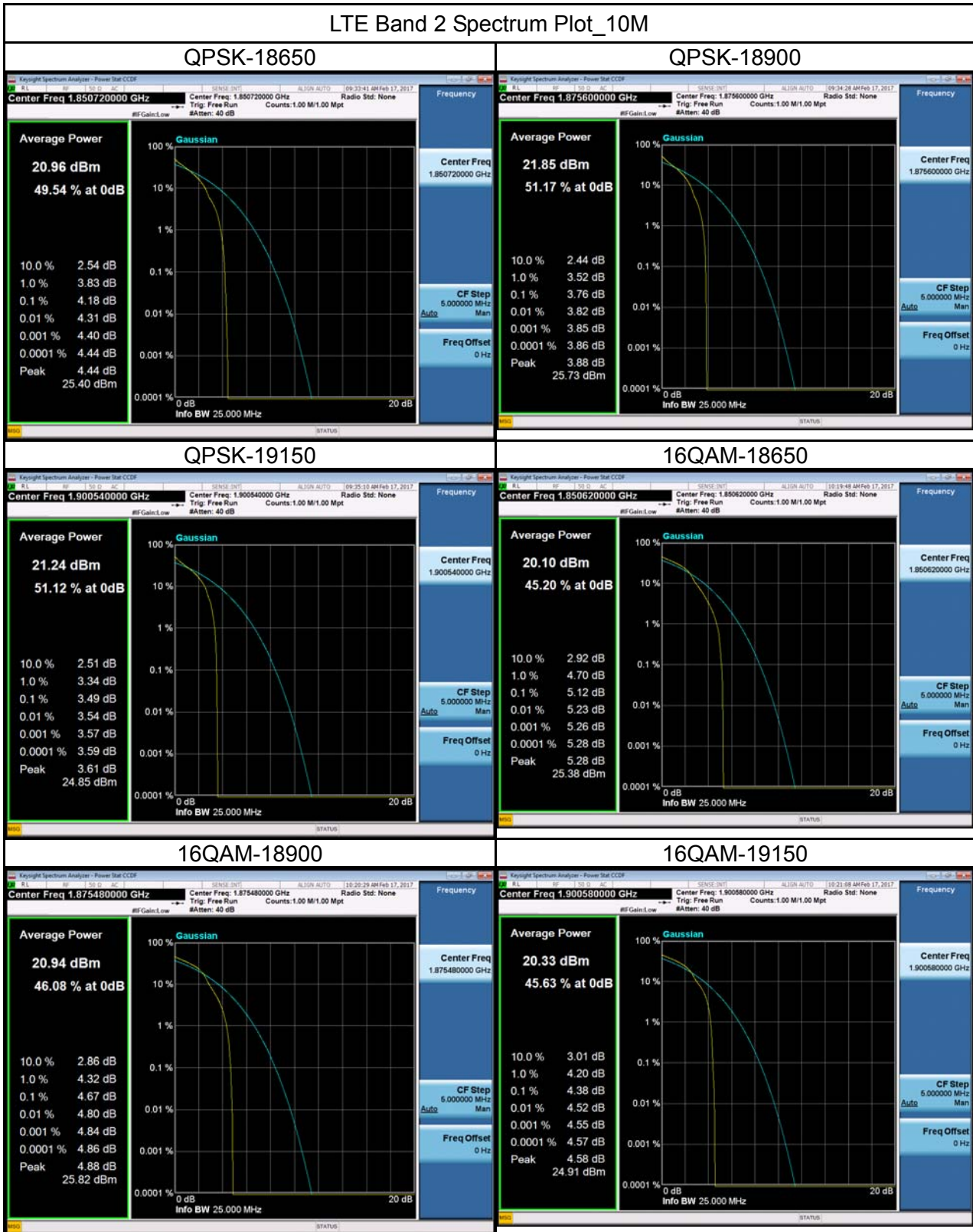
LTE Band 2_5M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
18625	1852.5	4.19	13	18625	1852.5	5.07	13
18900	1880	3.58	13	18900	1880	4.49	13
19175	1907.5	3.82	13	19175	1907.5	4.64	13

LTE Band 2 Spectrum Plot_5M



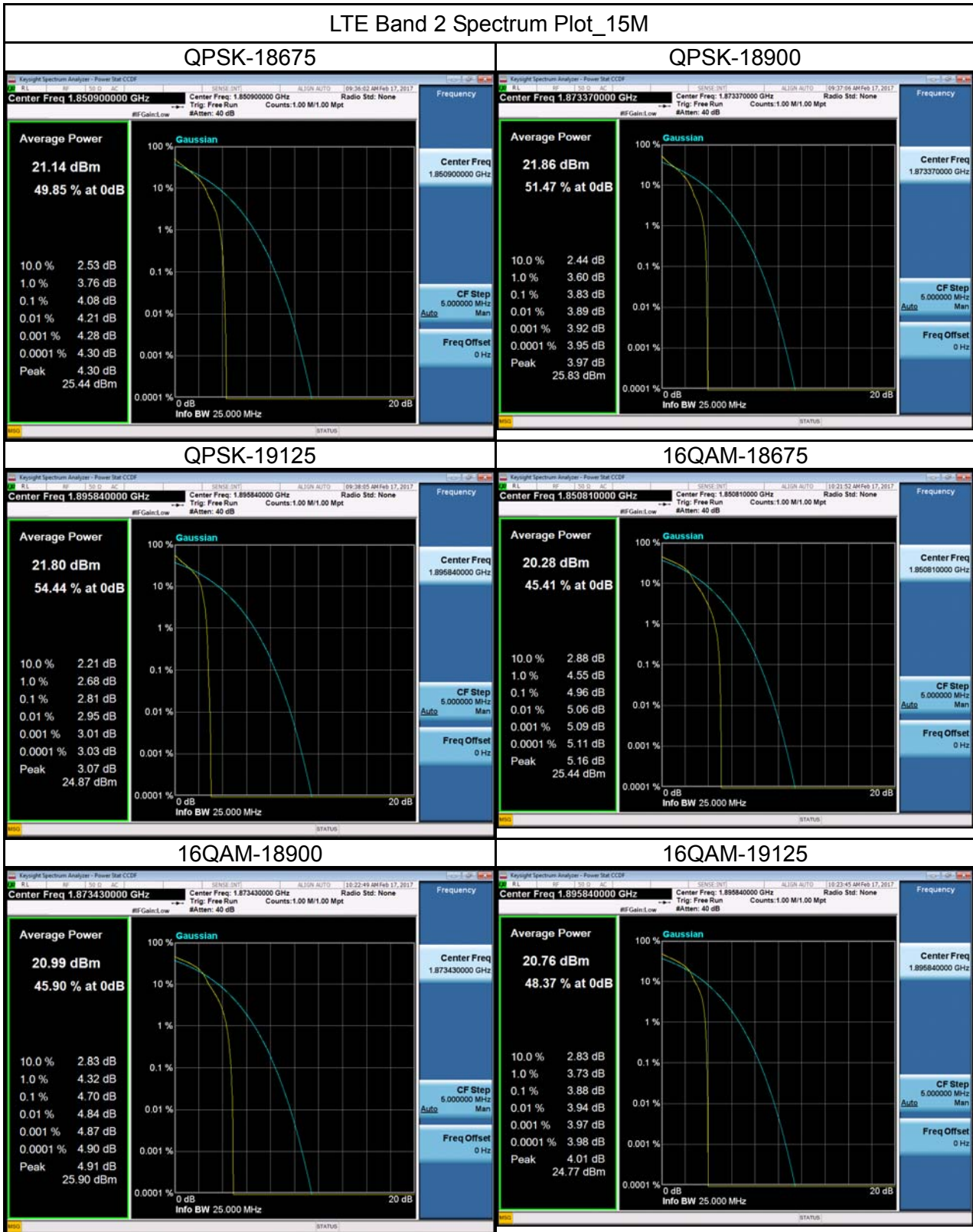
LTE Band 2_10M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
18650	1855	4.18	13	18650	1855	5.12	13
18900	1880	3.76	13	18900	1880	4.67	13
19150	1905	3.49	13	19150	1905	4.38	13

LTE Band 2 Spectrum Plot_10M



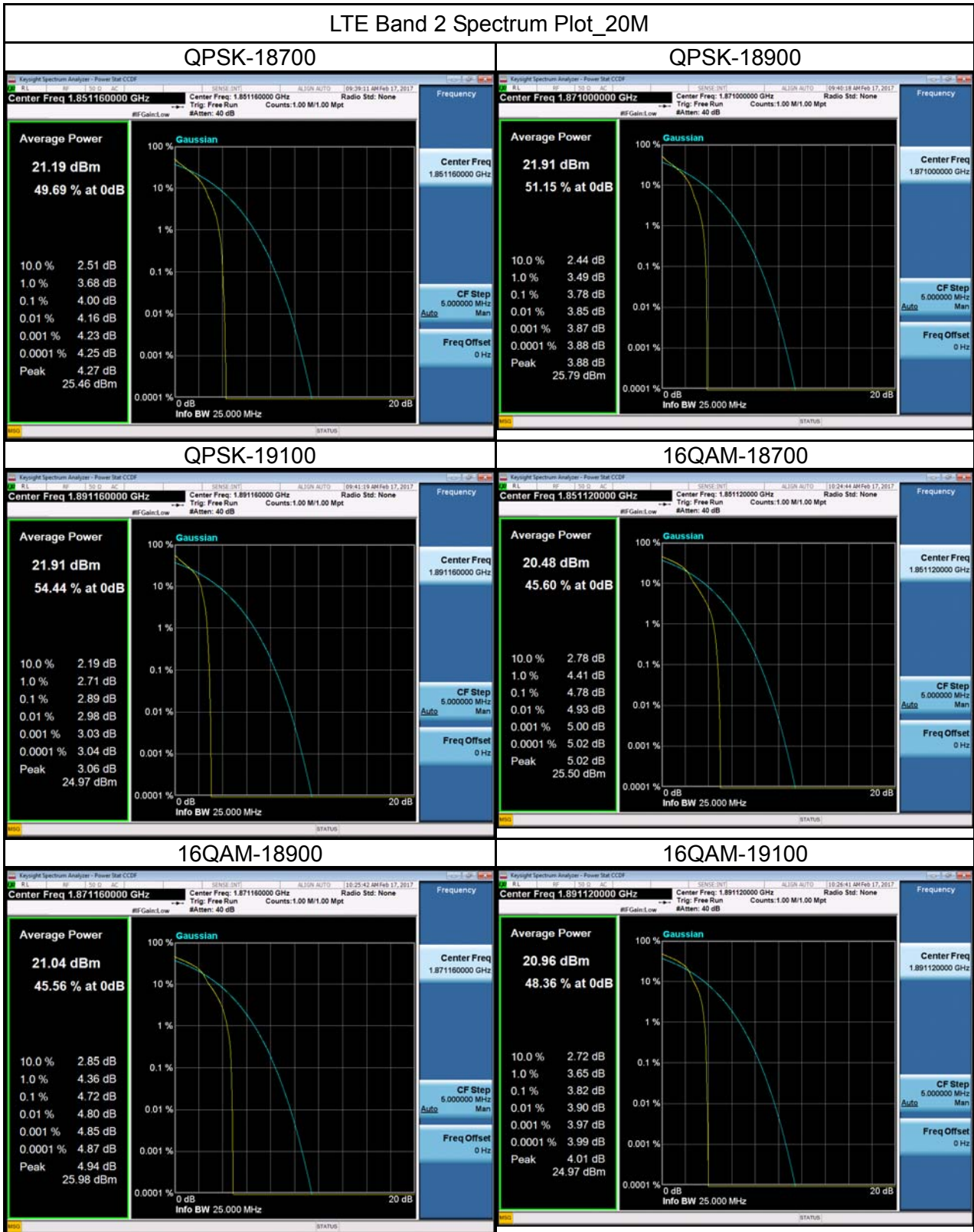
LTE Band 2_15M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
18675	1857.5	4.08	13	18675	1857.5	4.96	13
18900	1880	3.83	13	18900	1880	4.70	13
19125	1902.5	2.81	13	19125	1902.5	3.88	13

LTE Band 2 Spectrum Plot_15M



LTE Band 2_20M							
QPSK				16QAM			
Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)	Channel	Frequency (MHz)	0.1% PAPR (dB)	Limit (dB)
18700	1860	4.00	13	18700	1860	4.78	13
18900	1880	3.78	13	18900	1880	4.72	13
19100	1900	2.89	13	19100	1900	3.82	13

LTE Band 2 Spectrum Plot_20M



ATTACHMENT G - FREQUENCY STABILITY

Test Mode:	DCS1900_CH661
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	6.37	0.003442871	2.5
5	8.45	0.004567074	2.5
10	9.02	0.004875149	2.5
15	8.67	0.00468598	2.5
20	6.54	0.003534753	2.5
25	6.53	0.003529348	2.5
30	7.29	0.003940115	2.5
35	6.21	0.003356394	2.5
Max. Deviation (ppm)	9.02	0.004875149	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	6.34	0.003426657	2.5
4	6.81	0.003680683	2.5
4.2	7.25	0.003918495	2.5
Max. Deviation (ppm)	7.25	0.003918495	2.5

Test Mode:	WCDMA Band 2_CH9400
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	9.32	0.004957447	2.5
5	5.67	0.003015957	2.5
10	8.21	0.004367021	2.5
15	6.64	0.003531915	2.5
20	5.21	0.002771277	2.5
25	4.89	0.002601064	2.5
30	6.59	0.003505319	2.5
35	6.63	0.003526596	2.5
Max. Deviation (ppm)	9.32	0.004957447	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.99	0.00318617	2.5
4	6.08	0.003234043	2.5
4.2	7.56	0.004021277	2.5
Max. Deviation (ppm)	7.56	0.004021277	2.5

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)
0	2.36	0.001255319	2.5
5	-3.65	0.001941489	2.5
10	2.58	0.00137234	2.5
15	5.88	0.00312766	2.5
20	-6.10	0.003244681	2.5
25	3.32	0.001765957	2.5
30	-4.48	0.002382979	2.5
35	3.67	0.001952128	2.5
Max. Deviation (ppm)	6.10	0.003244681	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	3.56	0.001893617	2.5
4	-2.48	0.001319149	2.5
4.2	3.86	0.002053191	2.5
Max. Deviation (ppm)	3.86	0.002053191	2.5

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)
0	5.22	0.002776596	2.5
5	-6.21	0.003303191	2.5
10	3.41	0.00181383	2.5
15	-1.87	0.000994681	2.5
20	1.26	0.000670213	2.5
25	3.65	0.001941489	2.5
30	2.88	0.001531915	2.5
35	-3.77	0.002005319	2.5
Max. Deviation (ppm)	6.21	0.003303191	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.56	0.001361702	2.5
4	5.03	0.002675532	2.5
4.2	-1.28	0.000680851	2.5
Max. Deviation (ppm)	5.03	0.002675532	2.5

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)
0	5.54	0.002946809	2.5
5	2.69	0.001430851	2.5
10	-5.31	0.002824468	2.5
15	5.26	0.002797872	2.5
20	4.88	0.002595745	2.5
25	-4.69	0.002494681	2.5
30	-3.99	0.00212234	2.5
35	2.78	0.001478723	2.5
Max. Deviation (ppm)	5.54	0.002946809	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	5.56	0.002957447	2.5
4	-2.69	0.001430851	2.5
4.2	2.87	0.001526596	2.5
Max. Deviation (ppm)	5.56	0.002957447	2.5

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)
0	3.67	0.001952128	2.5
5	2.56	0.001361702	2.5
10	5.17	0.00275	2.5
15	-2.33	0.001239362	2.5
20	-3.52	0.00187234	2.5
25	4.69	0.002494681	2.5
30	-2.90	0.001542553	2.5
35	5.81	0.003090426	2.5
Max. Deviation (ppm)	5.81	0.003090426	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	-3.88	0.00206383	2.5
4	-4.37	0.002324468	2.5
4.2	5.24	0.002787234	2.5
Max. Deviation (ppm)	5.24	0.002787234	2.5

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)
0	3.37	0.001792553	2.5
5	4.08	0.002170213	2.5
10	5.60	0.002978723	2.5
15	-5.98	0.003180851	2.5
20	-2.37	0.001260638	2.5
25	1.92	0.001021277	2.5
30	2.33	0.001239362	2.5
35	1.87	0.000994681	2.5
Max. Deviation (ppm)	5.98	0.003180851	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	6.31	0.003356383	2.5
4	1.88	0.001000000	2.5
4.2	3.62	0.001925532	2.5
Max. Deviation (ppm)	6.31	0.003356383	2.5

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	-2.58	0.00137234	2.5
-20	-3.66	0.001946809	2.5
-10	4.21	0.002239362	2.5
0	1.84	0.000978723	2.5
10	5.90	0.003138298	2.5
20	6.01	0.003196809	2.5
30	-1.83	0.000973404	2.5
40	3.01	0.001601064	2.5
Max. Deviation (ppm)	6.01	0.003196809	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.8	2.37	0.001260638	2.5
4	5.88	0.00312766	2.5
4.2	-3.59	0.001909574	2.5
Max. Deviation (ppm)	5.88	0.00312766	2.5