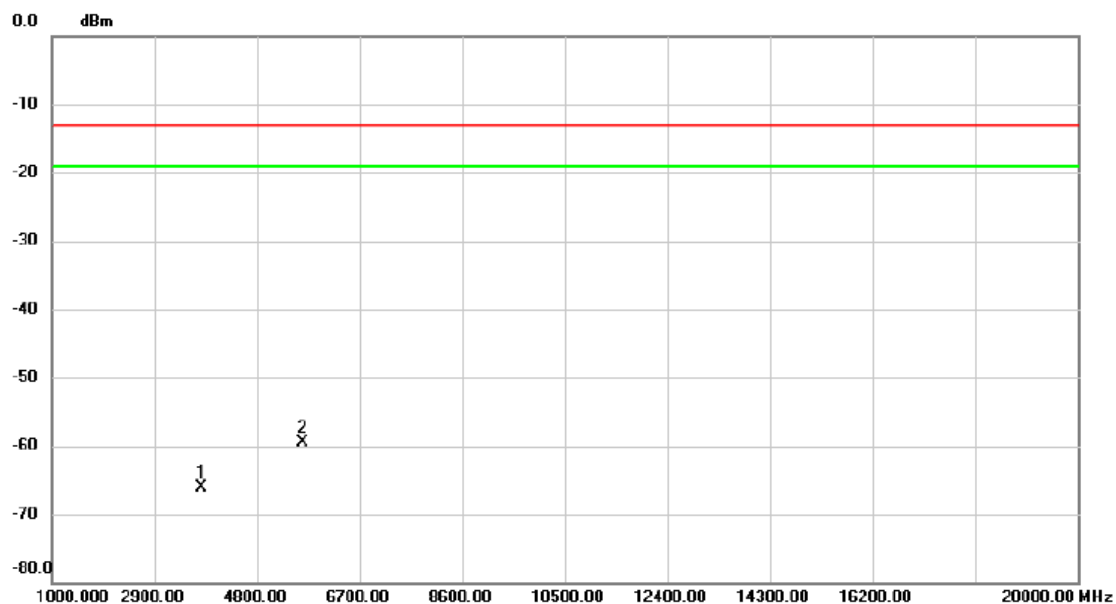


APPENDIX F - RADIATED EMISSION (ABOVE 1GHZ)

Test Mode: WCDMA Band II_TX CH9400

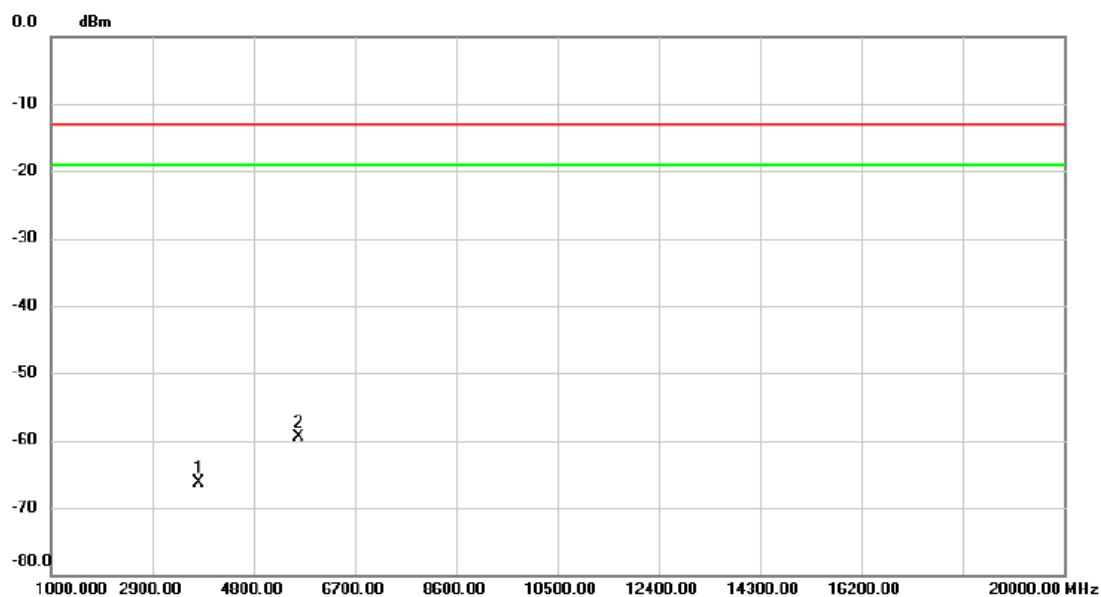
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3761.581	-52.16	-13.90	-66.06	-13.00	-53.06	peak	
2	*	5637.731	-51.53	-7.92	-59.45	-13.00	-46.45	peak	

Test Mode:	WCDMA Band II_TX CH9400
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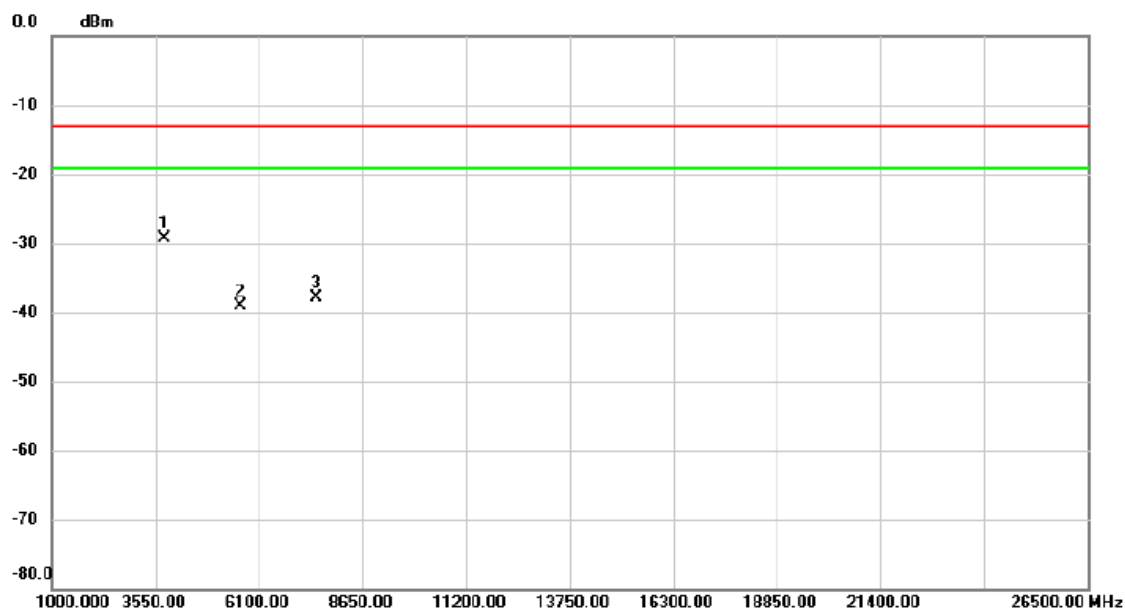
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3762.058	-52.35	-13.89	-66.24	-13.00	-53.24	peak	
2	*	5642.431	-51.59	-7.92	-59.51	-13.00	-46.51	peak	

Test Mode: LTE Band 2_TX CH18900_1.4M

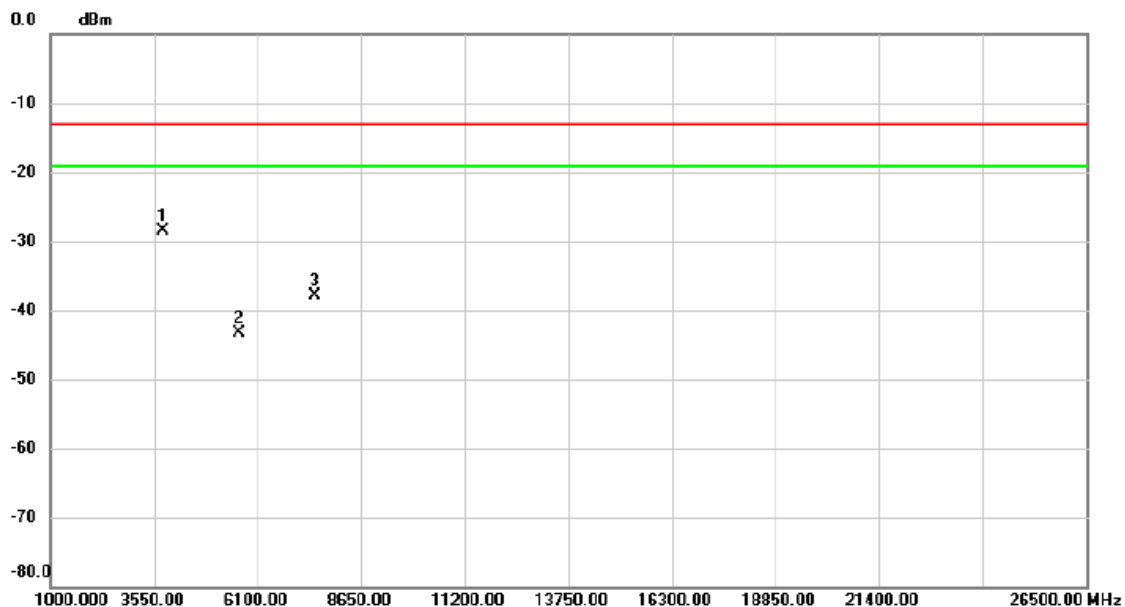
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	3754.000	-27.14	-2.17	-29.31	-13.00	-16.31	peak	
2		5641.000	-42.97	3.82	-39.15	-13.00	-26.15	peak	
3		7511.000	-47.20	9.22	-37.98	-13.00	-24.98	peak	

Test Mode:	LTE Band 2_TX CH18900_1.4M
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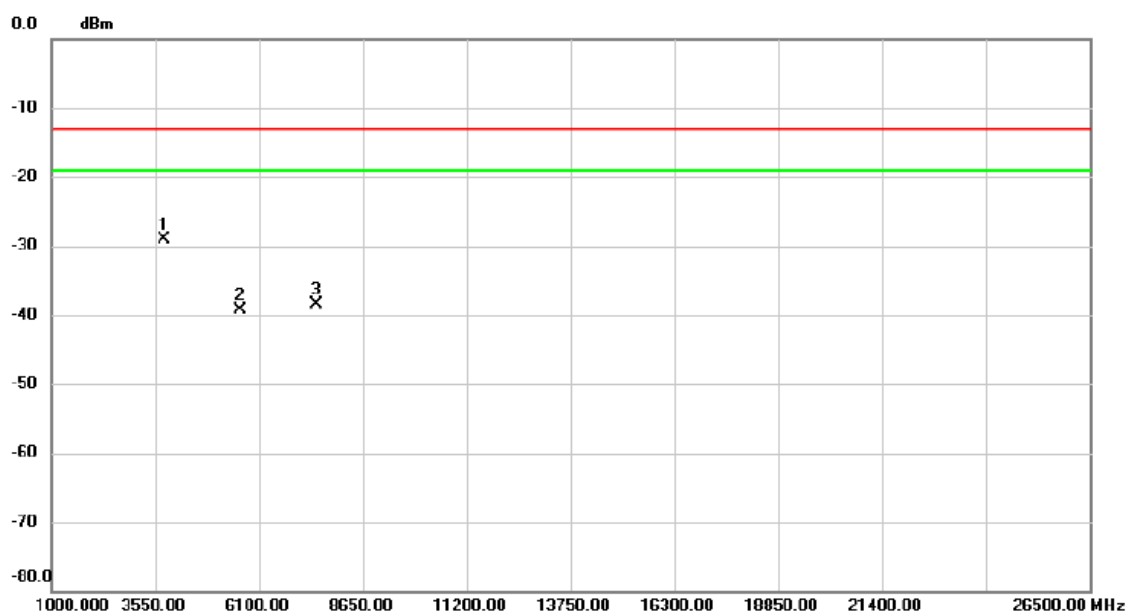
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	3754.000	-26.27	-2.17	-28.44	-13.00	-15.44	peak	
2		5641.000	-47.08	3.82	-43.26	-13.00	-30.26	peak	
3		7511.000	-47.05	9.22	-37.83	-13.00	-24.83	peak	

Test Mode: LTE Band 2_ TX CH18900_5M

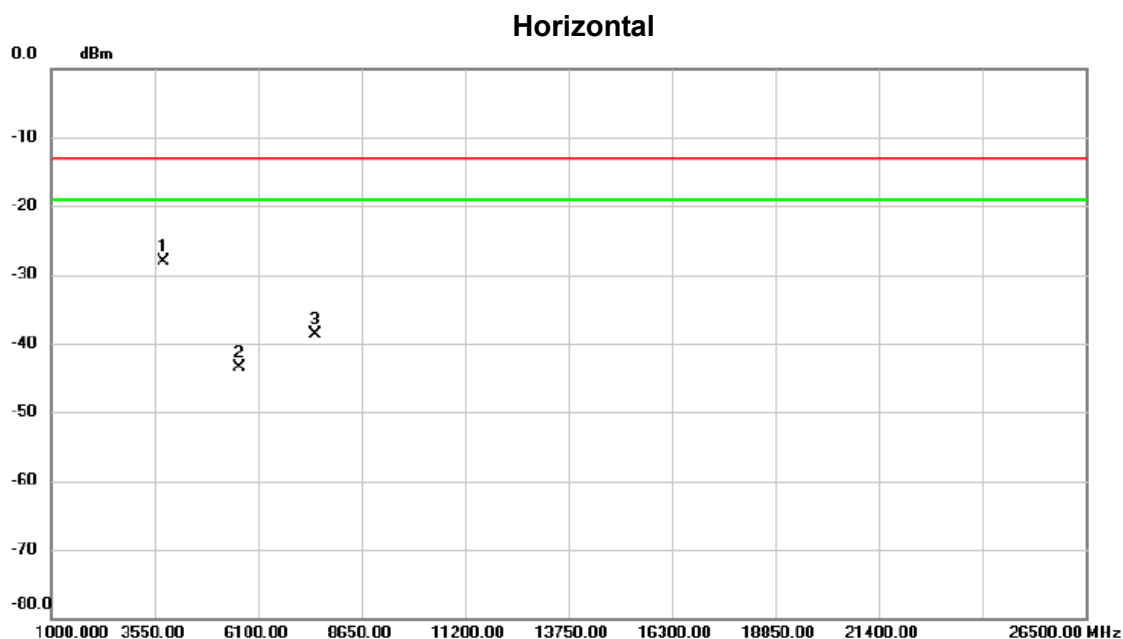
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-26.96	-2.17	-29.13	-13.00	-16.13	peak	
2		5641.000	-43.12	3.82	-39.30	-13.00	-26.30	peak	
3		7511.000	-47.63	9.22	-38.41	-13.00	-25.41	peak	

Test Mode:

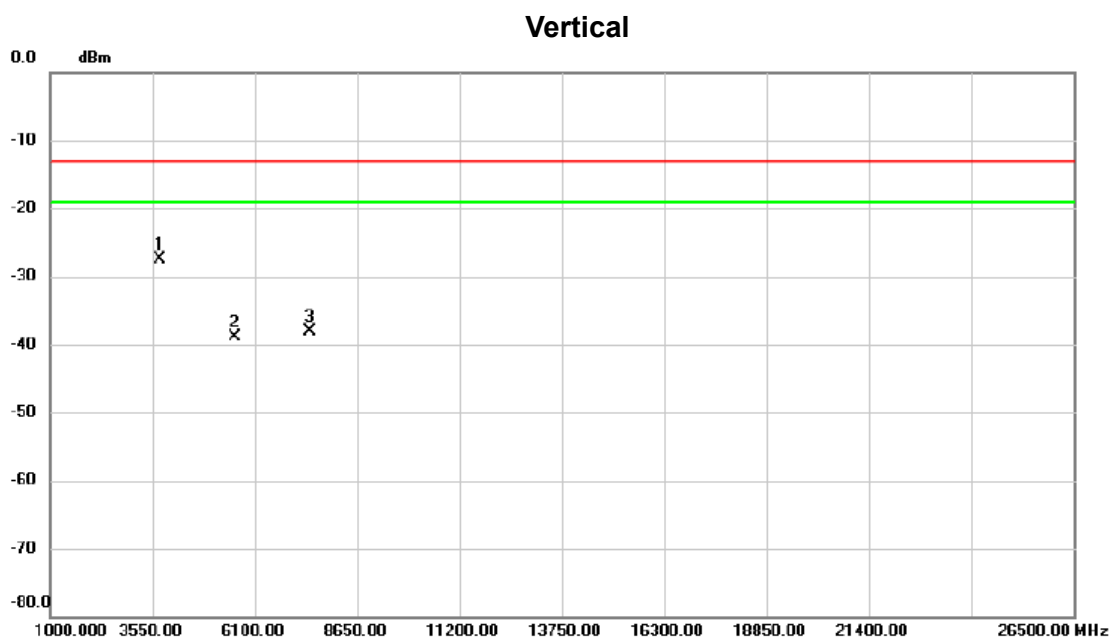
LTE Band 2_ TX CH18900_5M



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-25.91	-2.17	-28.08	-13.00	-15.08	peak	
2		5641.000	-47.30	3.82	-43.48	-13.00	-30.48	peak	
3		7511.000	-47.97	9.22	-38.75	-13.00	-25.75	peak	

Test Mode:

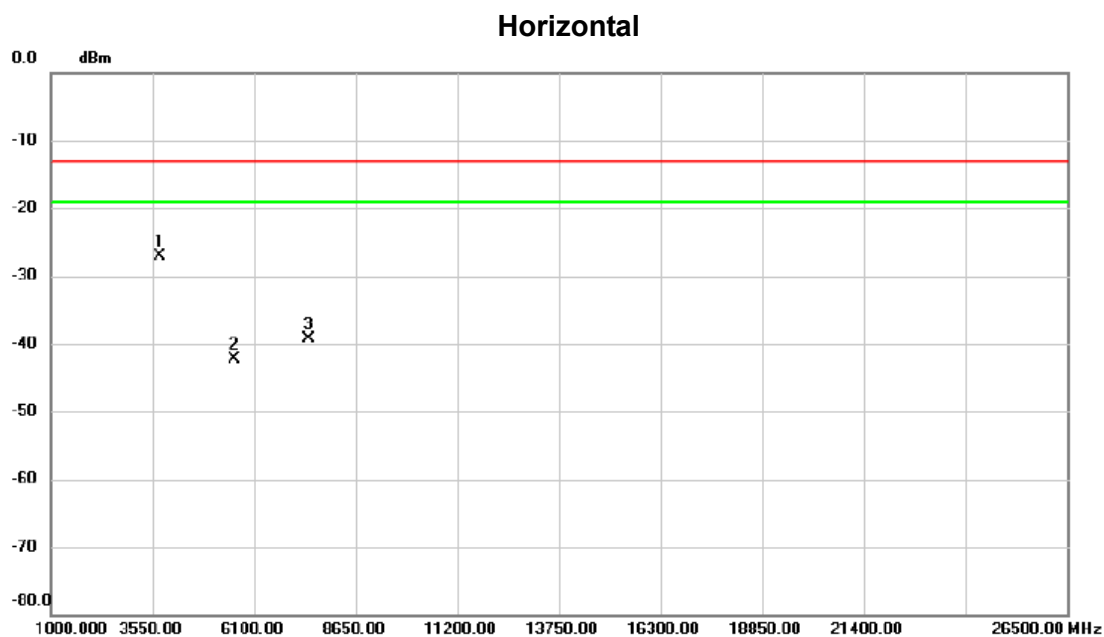
LTE Band 2_TX CH18900_20M



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	3737.000	-25.17	-2.24	-27.41	-13.00	-14.41	peak	
2		5607.000	-42.63	3.77	-38.86	-13.00	-25.86	peak	
3		7477.000	-47.32	9.15	-38.17	-13.00	-25.17	peak	

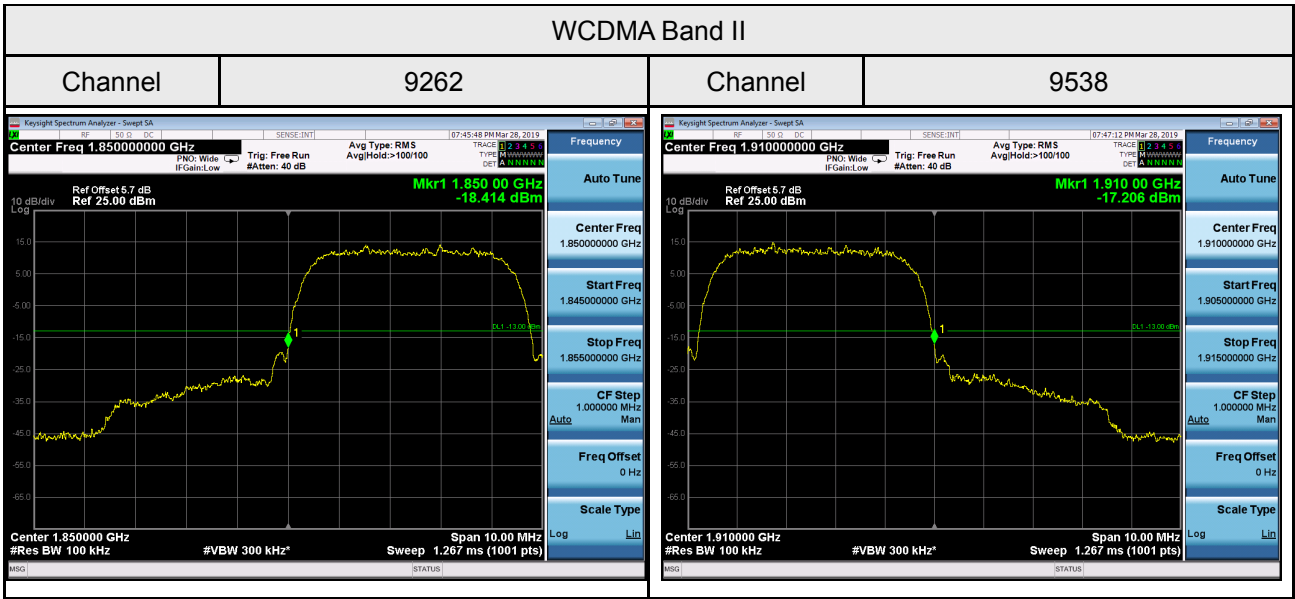
Test Mode:

LTE Band 2_TX CH18900_20M



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	3737.000	-24.95	-2.24	-27.19	-13.00	-14.19	peak	
2		5607.000	-46.08	3.77	-42.31	-13.00	-29.31	peak	
3		7477.000	-48.41	9.15	-39.26	-13.00	-26.26	peak	

APPENDIX G - BAND EDGE



LTE Band 2_1.4M

1RB0

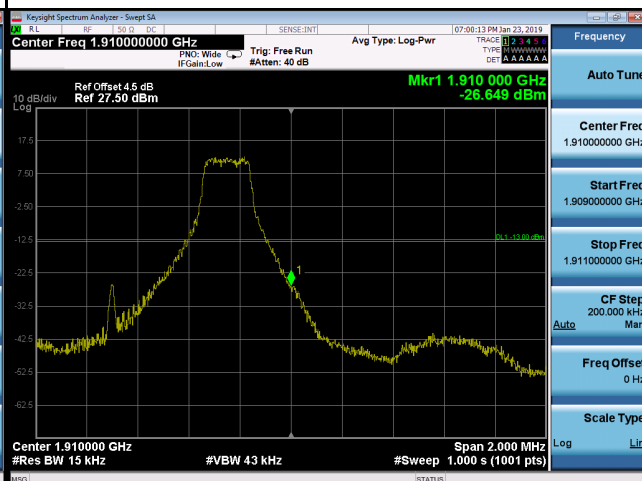
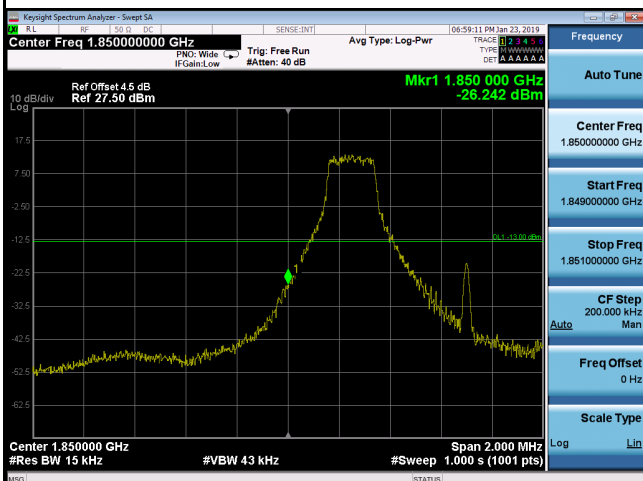
1RB5

Channel

18607

Channel

19193



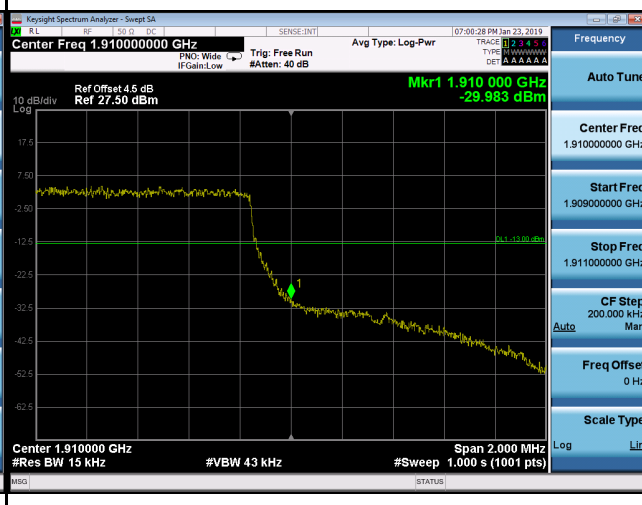
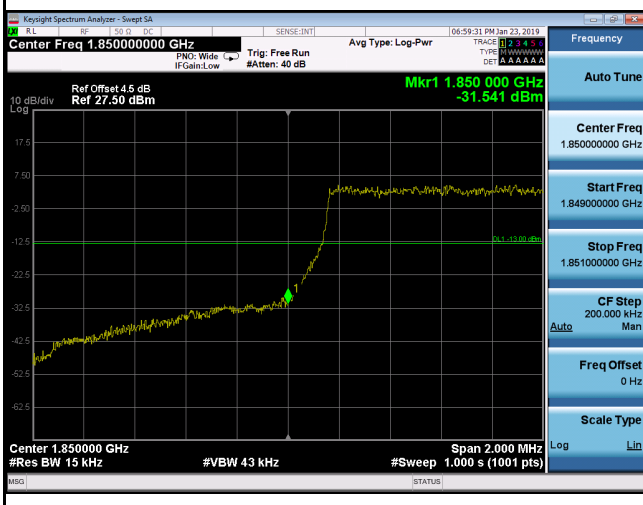
6RB0

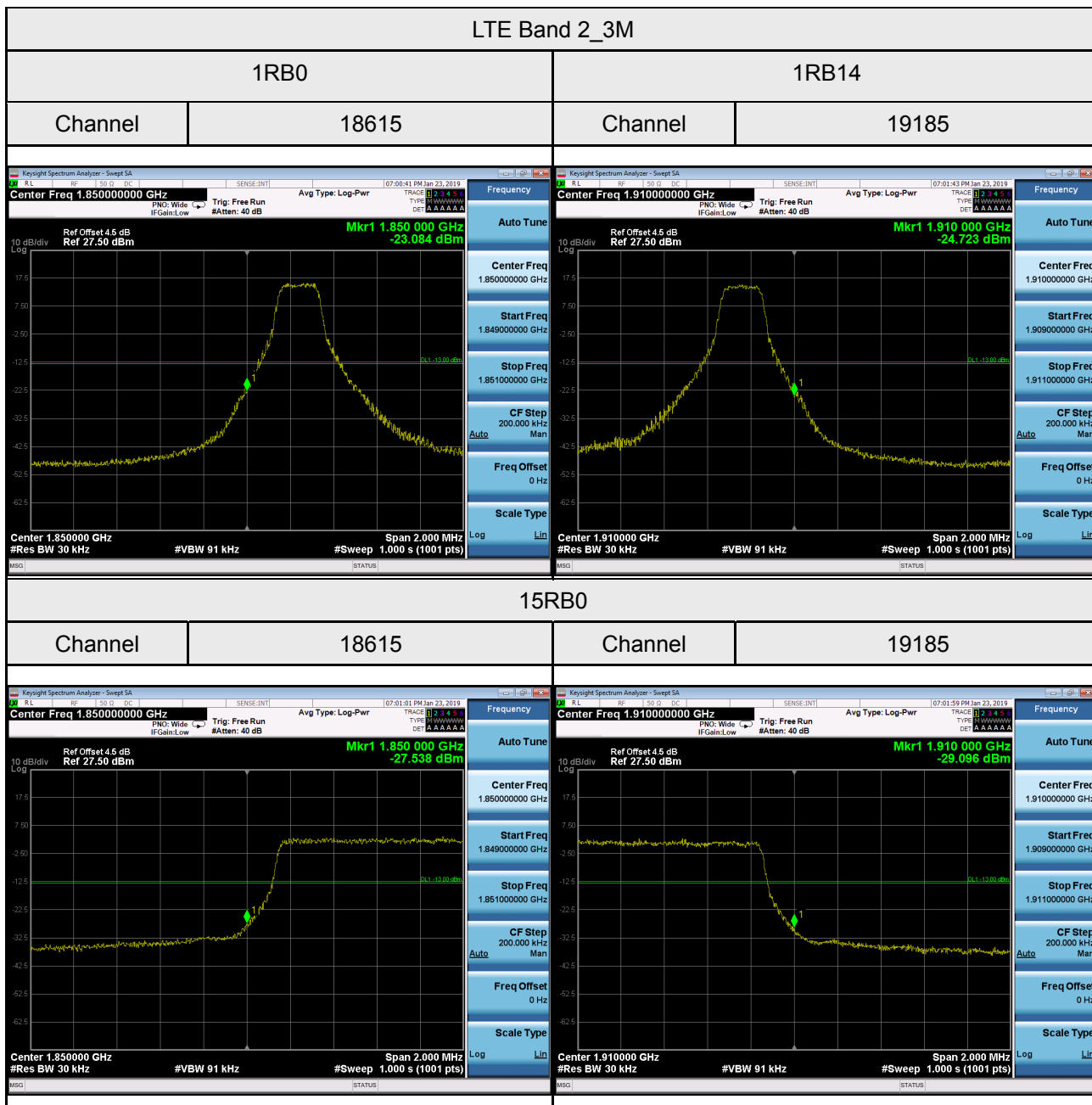
Channel

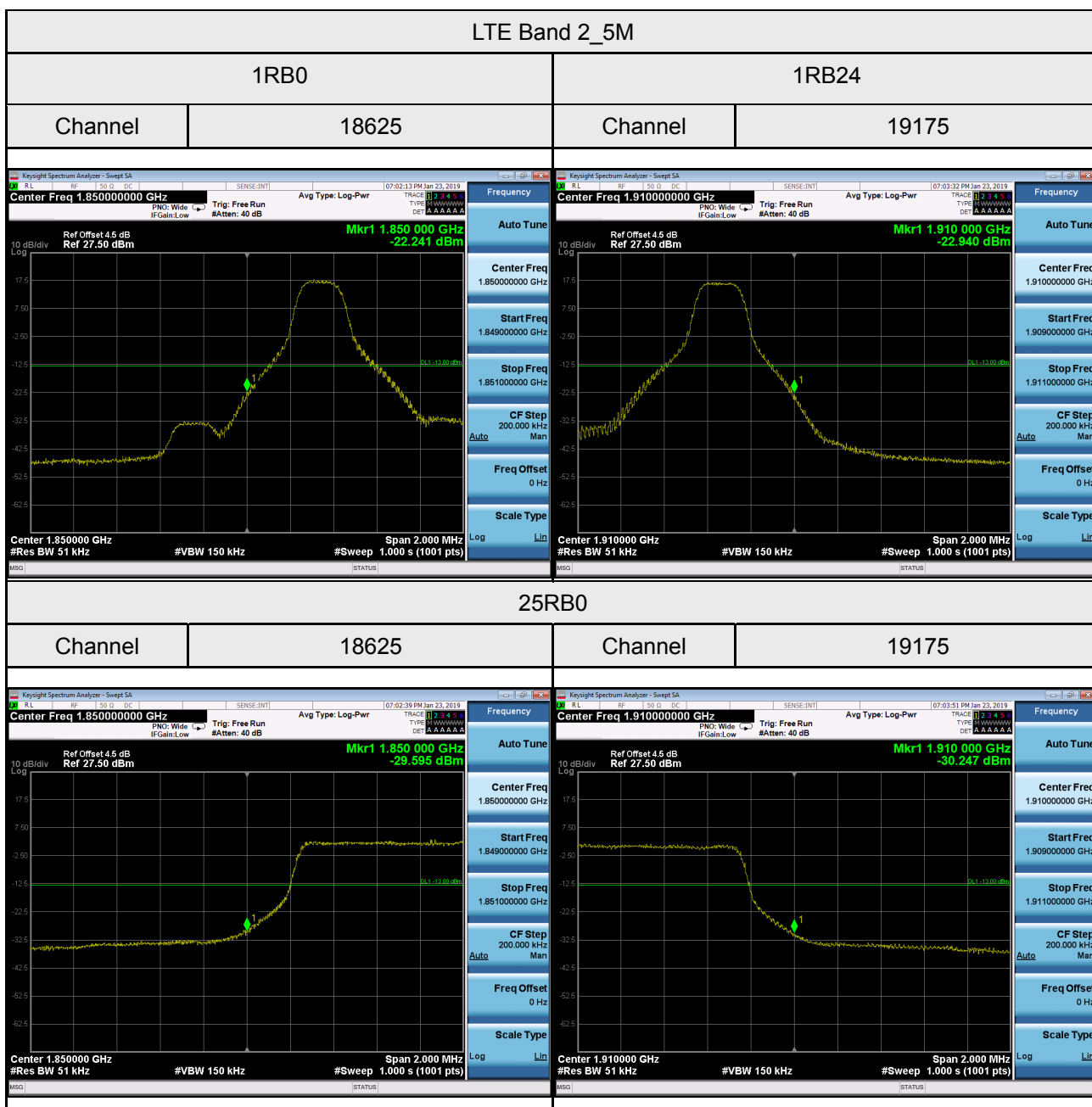
18607

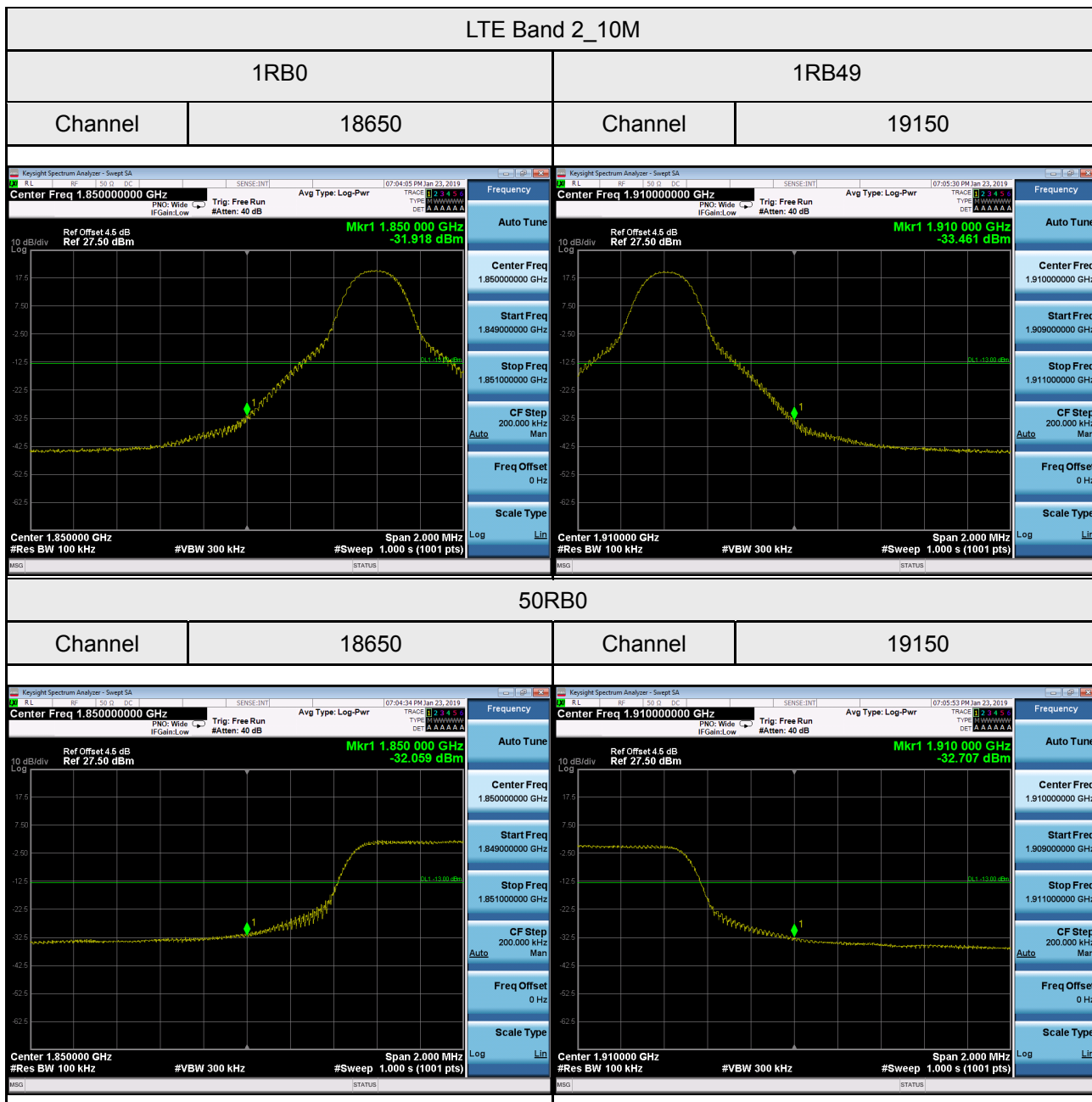
Channel

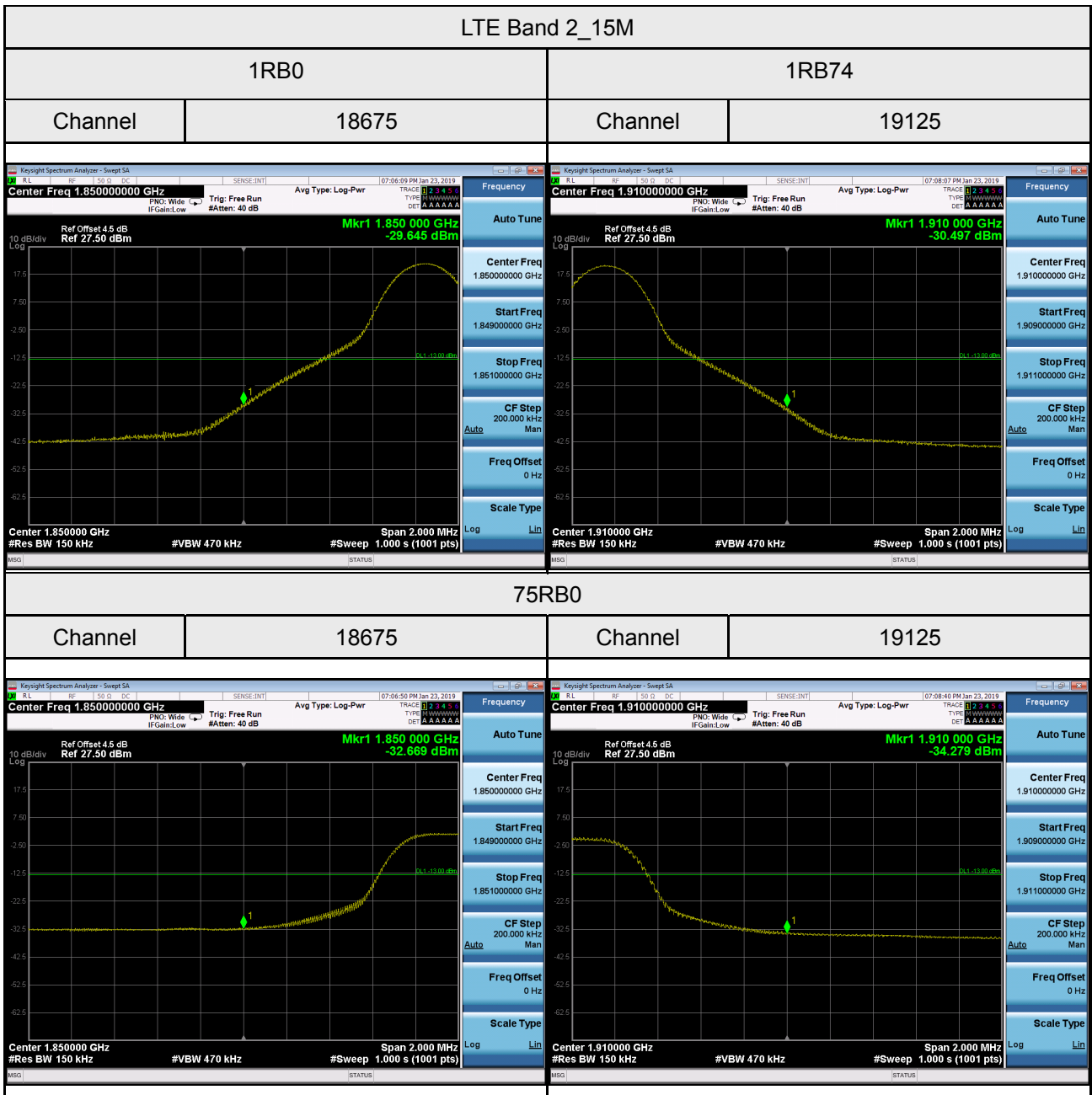
19193

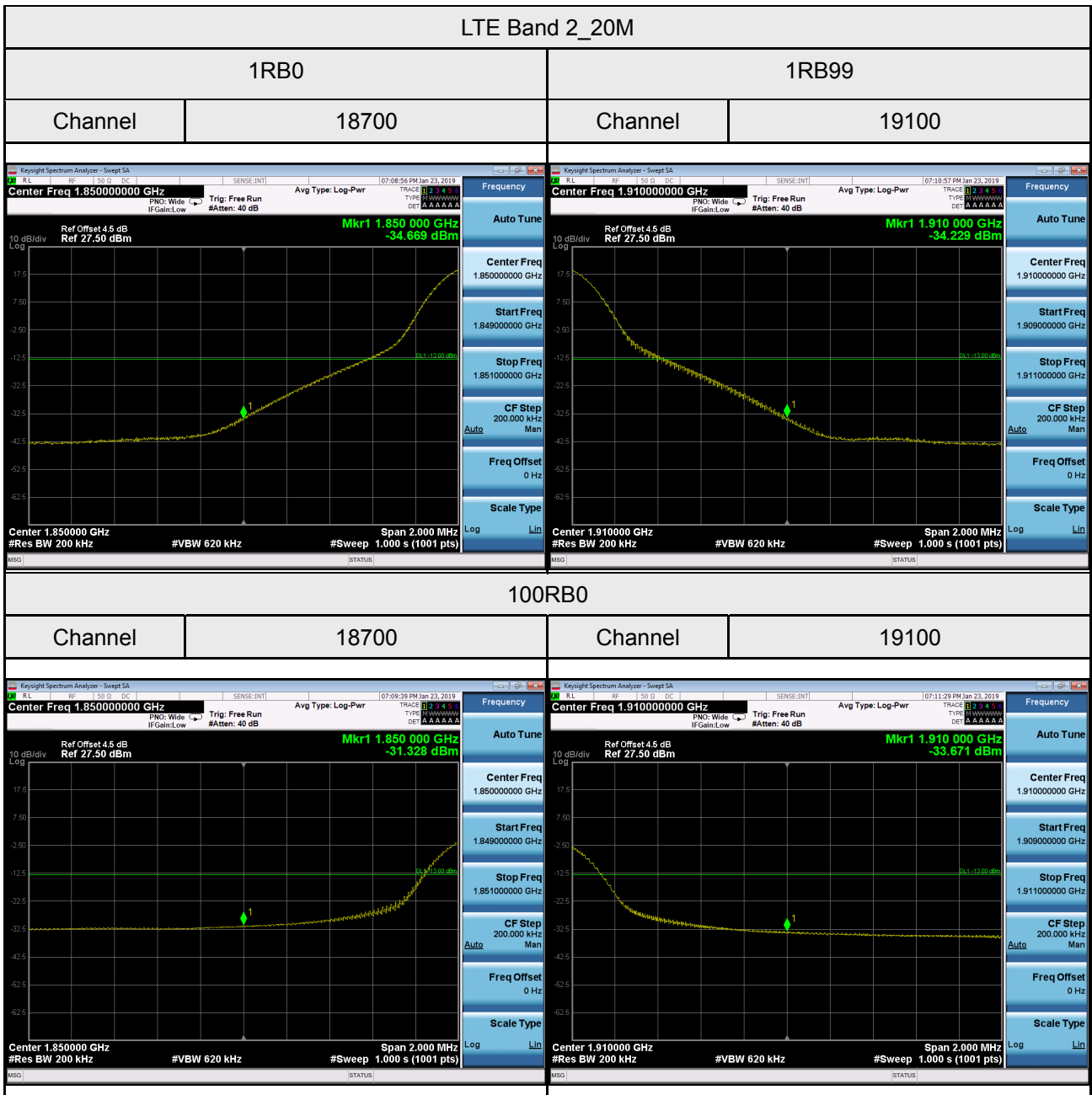












APPENDIX H - PEAK TO AVERAGE RATIO

WCDMA Band II Spectrum Plot

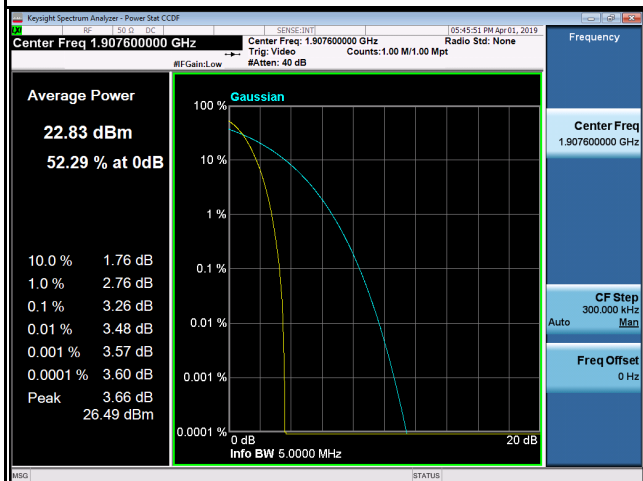
9262



9400



9538

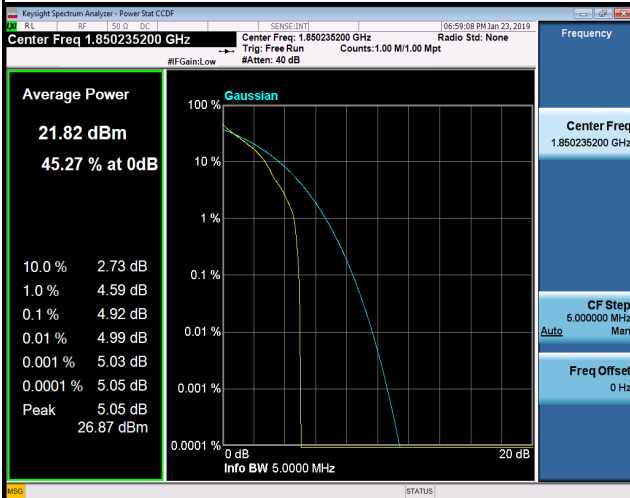


-

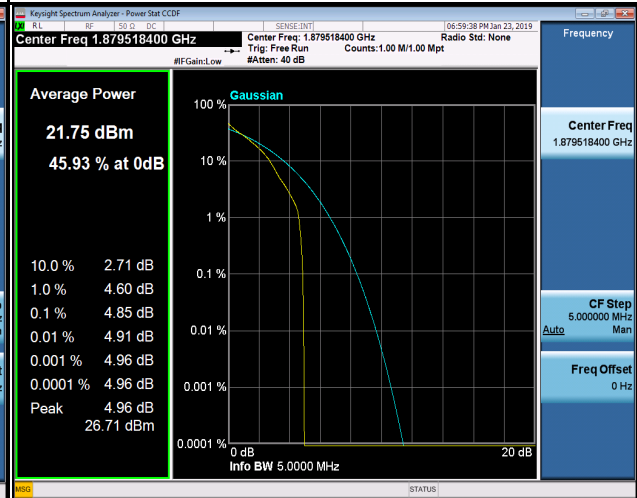
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LTE Band 2 Spectrum Plot_1.4M

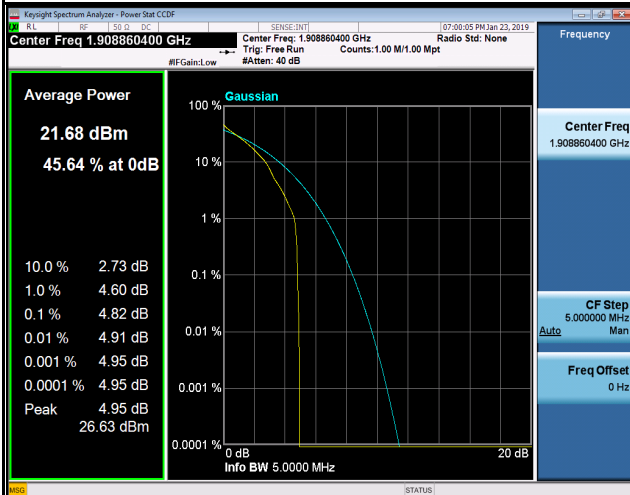
QPSK-18607



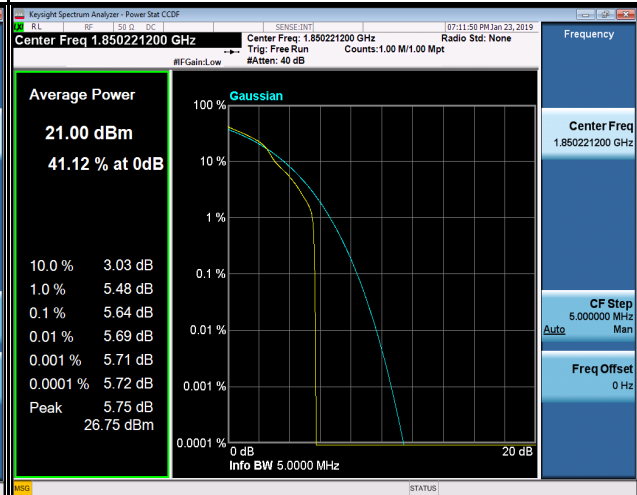
QPSK-18900



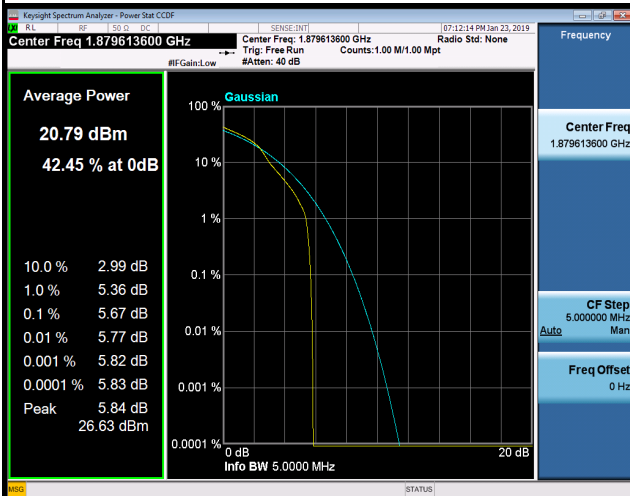
QPSK-19193



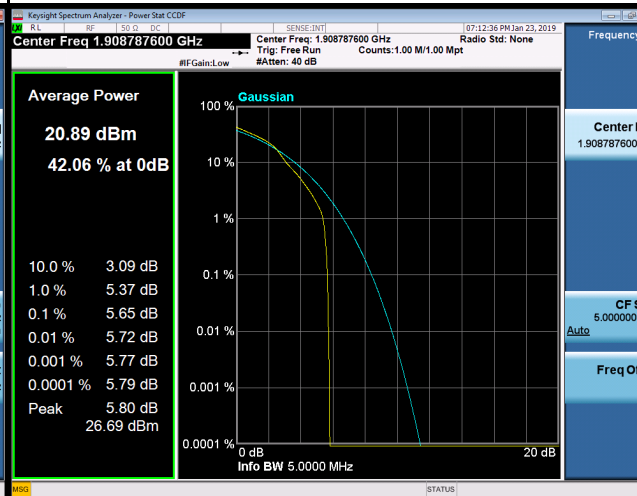
16QAM-18607



16QAM-18900



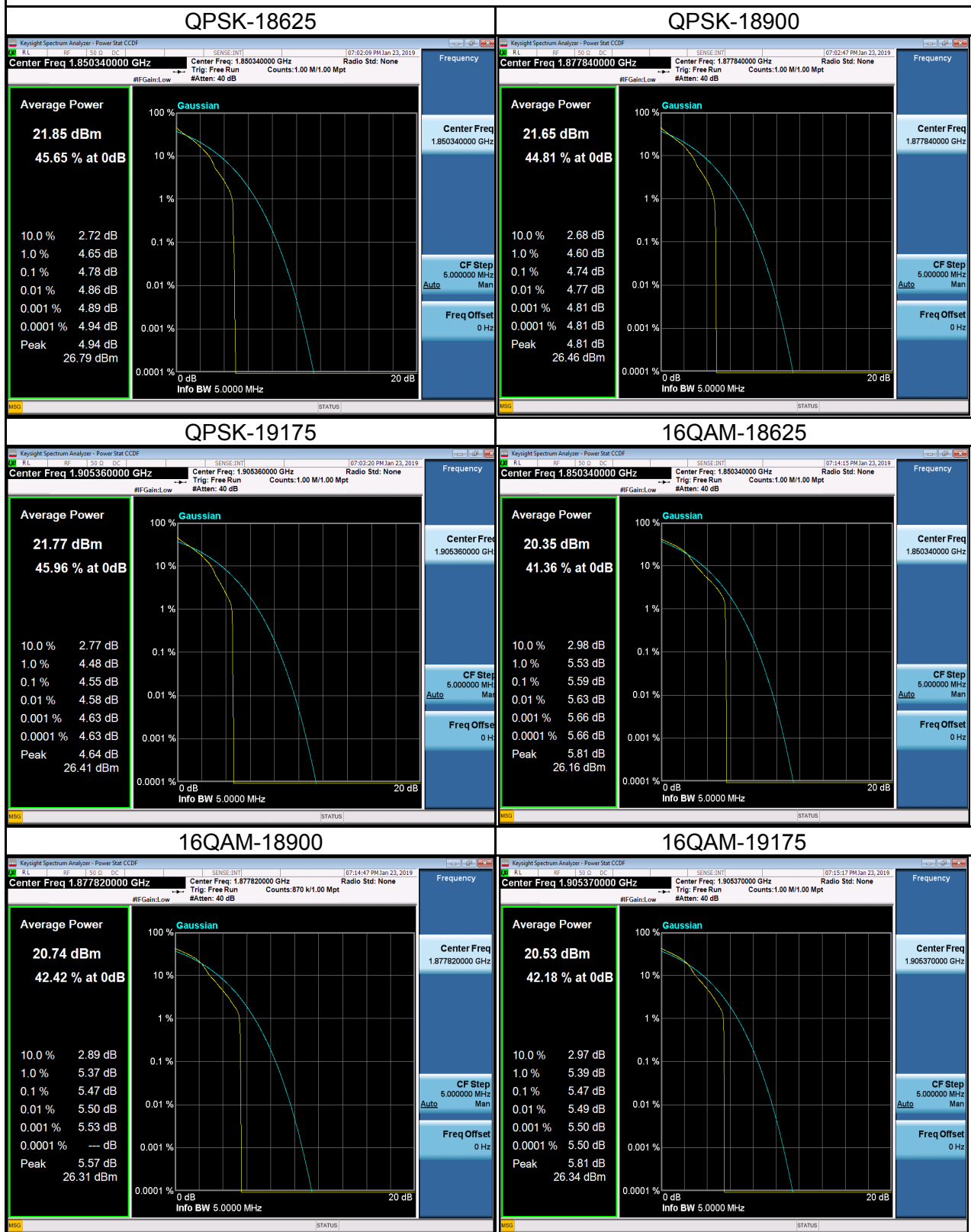
16QAM-19193



LTE Band 2 Spectrum Plot_3M



LTE Band 2 Spectrum Plot_5M



LTE Band 2 Spectrum Plot_10M

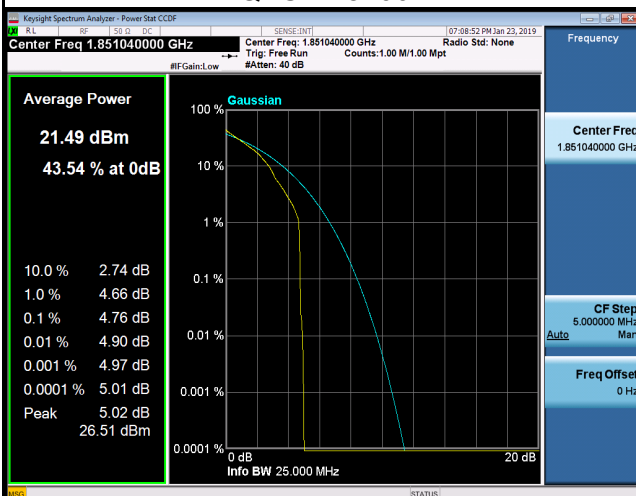


LTE Band 2 Spectrum Plot_15M



LTE Band 2 Spectrum Plot_20M

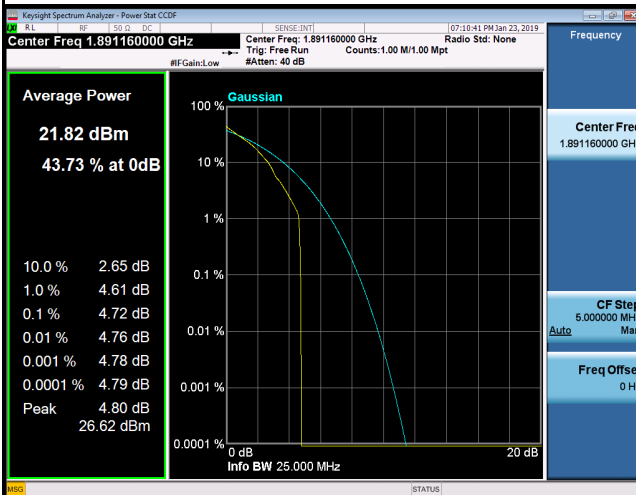
QPSK-18700



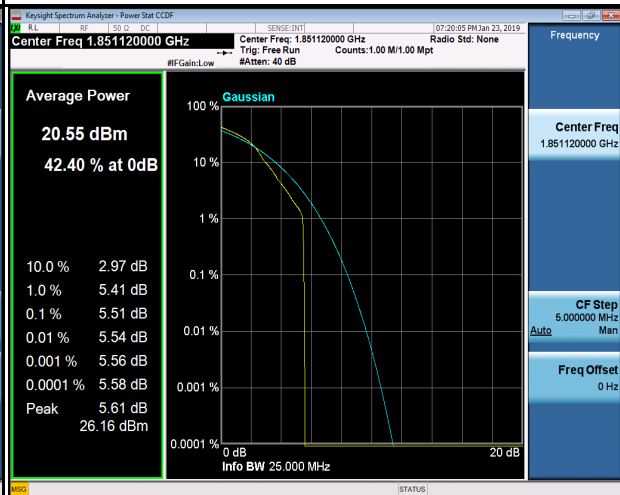
QPSK-18900



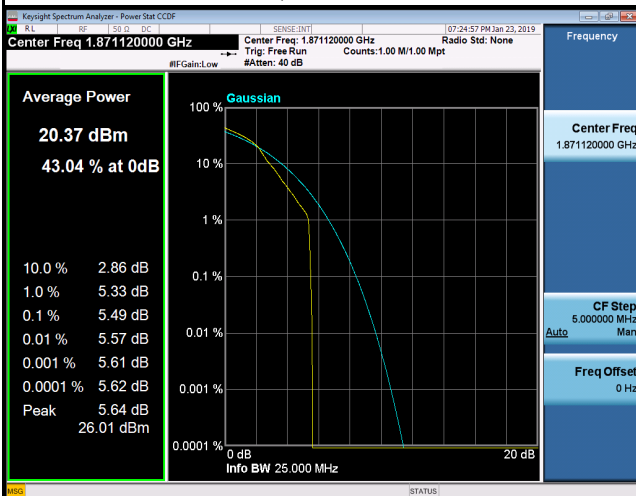
QPSK-19100



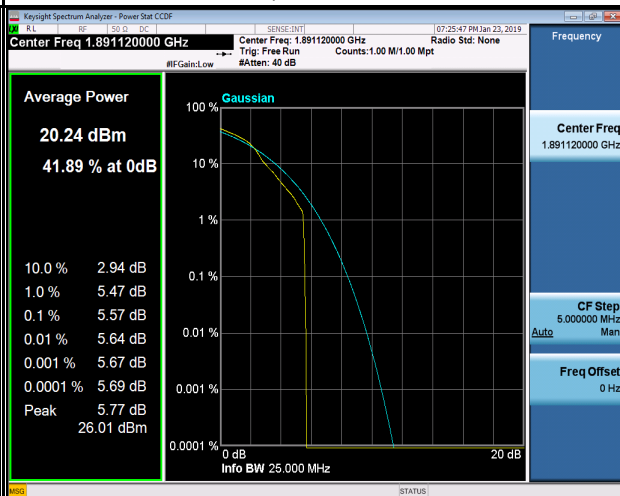
16QAM-18700



16QAM-18900



16QAM-19100



APPENDIX I - FREQUENCY STABILITY

Test Mode:	WCDMA Band II_CH9400
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Temperature vs. Frequency Stability

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-10	3.67	0.001952128	± 2.5
0	5.64	0.003	
10	1.72	0.000914894	
20	2.29	0.001218085	
30	2.14	0.001138298	
40	2.53	0.001345745	
50	6.22	0.003308511	
55	1.51	0.000803191	
Max. Deviation (ppm)	6.22	0.003308511	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
4.35	1.62	0.000861702	± 2.5
3.80	2.71	0.001441489	
3.50	1.57	0.000835106	
Max. Deviation (ppm)	2.71	0.001441489	

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)
-10	-5.04	-0.002680851	± 2.5
0	4.85	0.002579787	
10	-2.72	-0.001446809	
20	-0.95	-0.000505319	
30	0.66	0.000351064	
40	1.73	0.000920213	
50	-2.64	-0.001404255	
55	5.11	0.002718085	
Max. Deviation (ppm)	5.11	0.002718085	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
13.2	4.73	0.002515957	± 2.5
12	-1.68	-0.000893617	
10.8	5.90	0.003138298	
Max. Deviation (ppm)	5.9	0.003138298	

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)
-10	-4.54	-0.002414894	± 2.5
0	-4.55	-0.002420213	
10	-2.52	-0.001340426	
20	-0.55	-0.000292553	
30	-1.16	-0.000617021	
40	2.13	0.001132979	
50	-2.04	-0.001085106	
55	4.61	0.002452128	
Max. Deviation (ppm)	4.61	0.002452128	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
13.2	5.13	0.002728723	± 2.5
12	-1.18	-0.00062766	
10.8	6.30	0.003351064	
Max. Deviation (ppm)	6.3	0.003351064	

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)
-10	4.69	0.002494681	± 2.5
0	-6.67	-0.003547872	
10	-3.90	-0.002074468	
20	2.35	0.00125	
30	-8.63	-0.004590426	
40	-2.17	-0.001154255	
50	5.52	0.00293617	
55	1.17	0.00062234	
Max. Deviation (ppm)	-8.63	-0.004590426	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
13.2	2.76	0.001468085	± 2.5
12	-4.45	-0.002367021	
10.8	-1.82	-0.000968085	
Max. Deviation (ppm)	-4.45	-0.002367021	

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)
-10	-1.37	-0.000728723	± 2.5
0	-3.15	-0.001675532	
10	-1.71	-0.000909574	
20	2.71	0.001441489	
30	4.37	0.002324468	
40	4.86	0.002585106	
50	5.38	0.002861702	
55	3.79	0.002015957	
Max. Deviation (ppm)	5.38	0.002861702	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
13.2	3.55	0.001888298	± 2.5
12	4.61	0.002452128	
10.8	4.74	0.002521277	
Max. Deviation (ppm)	4.74	0.002521277	

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)
-10	6.38	0.003393617	± 2.5
0	3.66	0.001946809	
10	-1.72	-0.000914894	
20	-3.70	-0.001968085	
30	6.69	0.003558511	
40	5.06	0.002691489	
50	2.28	0.001212766	
55	5.33	0.002835106	
Max. Deviation (ppm)	6.69	0.003558511	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
13.2	2.31	0.001228723	± 2.5
12	-2.22	-0.001180851	
10.8	5.84	0.003106383	
Max. Deviation (ppm)	5.84	0.003106383	

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)
-10	4.08	0.002170213	± 2.5
0	-2.94	-0.00156383	
10	-1.28	-0.000680851	
20	7.75	0.00412234	
30	3.55	0.001888298	
40	6.42	0.003414894	
50	2.18	0.001159574	
55	5.60	0.002978723	
Max. Deviation (ppm)	7.75	0.00412234	

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
13.2	5.65	0.003005319	± 2.5
12	3.14	0.001670213	
10.8	-2.51	-0.001335106	
Max. Deviation (ppm)	5.65	0.003005319	

End of Test Report