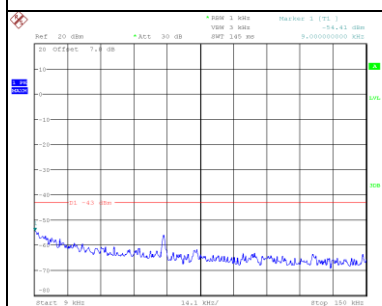
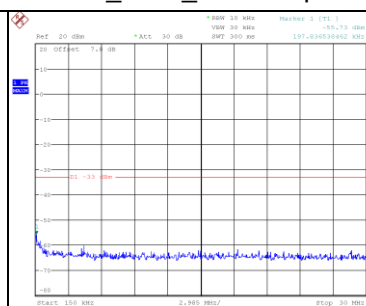


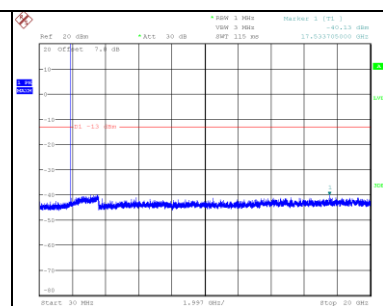
PCS1900_GSM_CH661 Spectrum Plot



Date: 5-30-2022 14:12:26

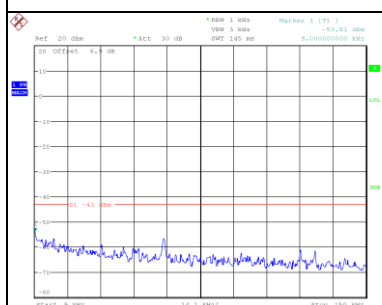


Date: 5-MAR-2022 14:10:23

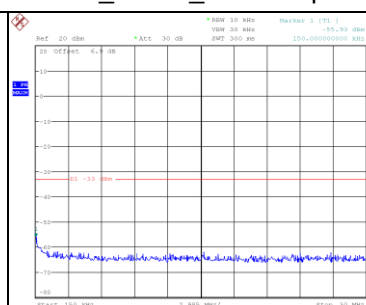


Date: 5-30-2022 14:09:01

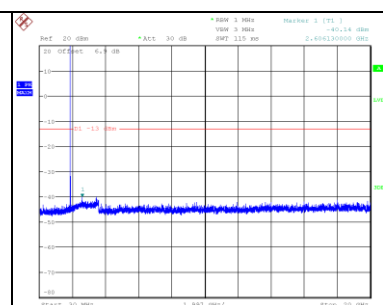
PCS1900_EDGE_CH661 Spectrum Plot



Date: 31.DEC.2021 14:00:11

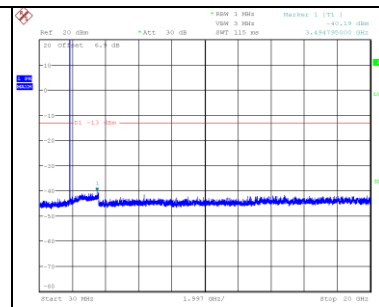
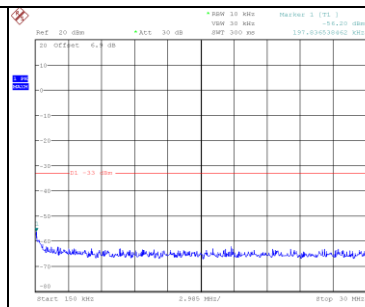
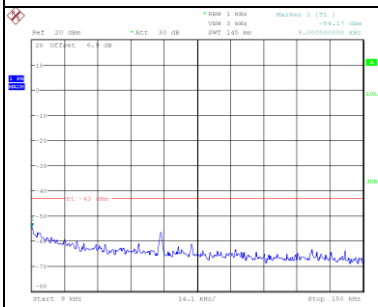


Date: 31.DEC.2021 13:59:4

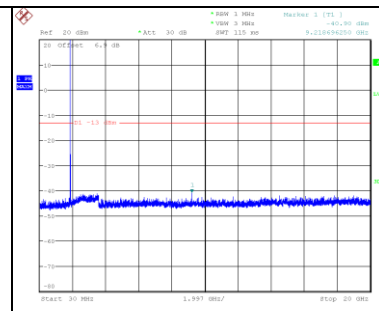
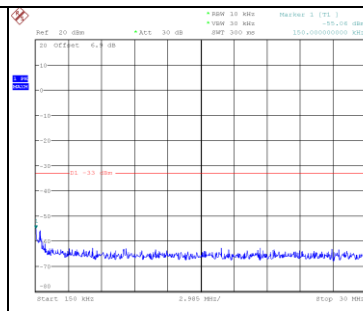
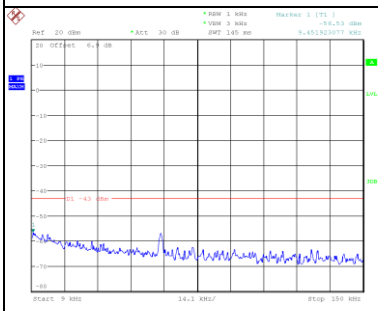


Date: 31.DEC.2021 13:58:11

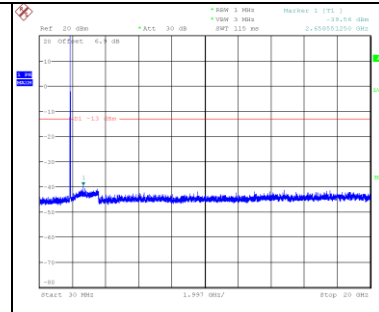
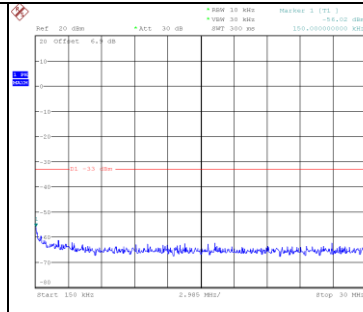
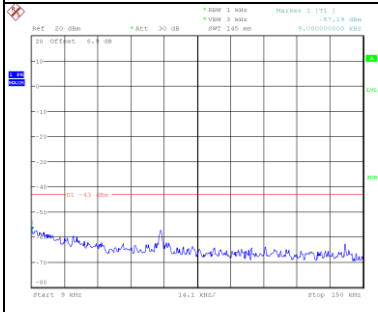
WCDMA Band II_WCDMA_CH9400 Spectrum Plot



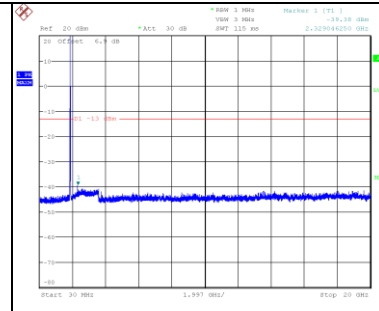
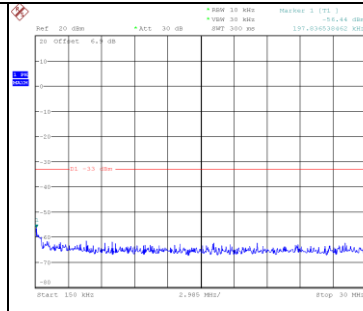
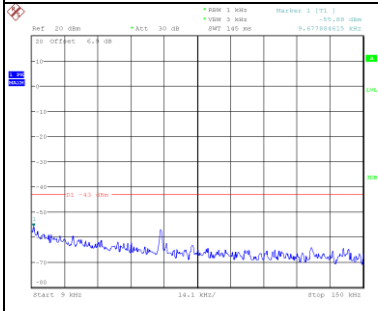
LTE Band 2_1.4MHz_CH18900 Spectrum Plot



LTE Band 2_5MHz_CH18900 Spectrum Plot



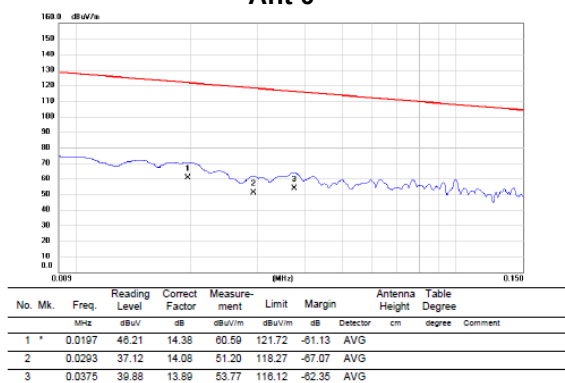
LTE Band 2_20MHz_CH18900 Spectrum Plot



APPENDIX D - RADIATED SPURIOUS EMISSIONS (9KHZ TO 30MHZ)

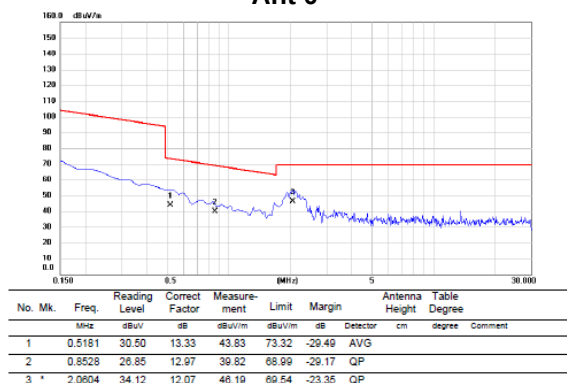
Test Mode : TX Mode

Ant 0°



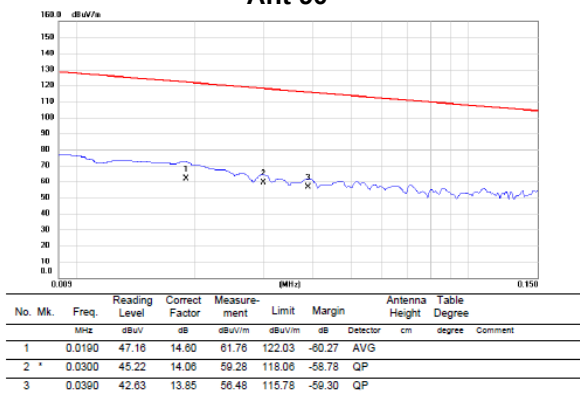
Test Mode : TX Mode

Ant 0°



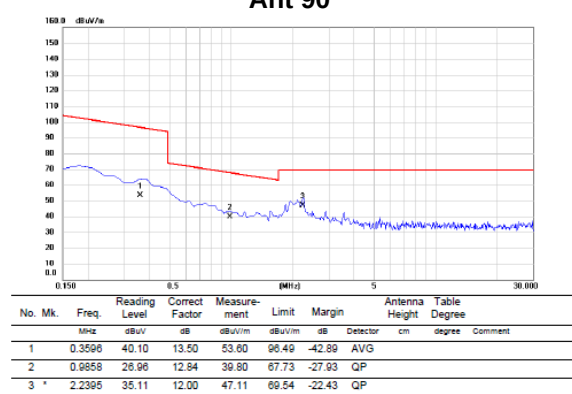
Test Mode : TX Mode

Ant 90°



Test Mode : TX Mode

Ant 90°



APPENDIX E - RADIATED SPURIOUS EMISSIONS (30MHZ TO 1000MHZ)

Test Mode : PCS1900_TX CH661_GSM

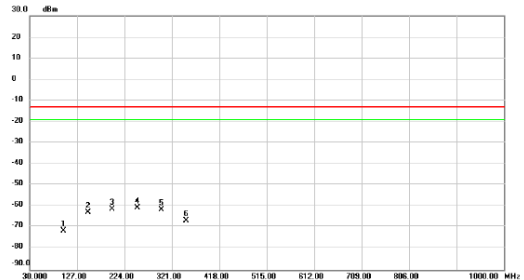
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	56.1900	-54.46	-11.82	-66.28	-13.00	-53.28	peak	
2	98.8700	-49.95	-16.51	-66.46	-13.00	-53.46	peak	
3	198.7800	-51.94	-14.82	-66.76	-13.00	-53.76	peak	
4 *	250.1900	-52.01	-13.01	-65.02	-13.00	-52.02	peak	
5	296.7500	-57.24	-11.42	-68.66	-13.00	-55.66	peak	
6	350.1000	-58.05	-10.20	-68.25	-13.00	-55.25	peak	

Test Mode : PCS1900_TX CH661_GSM

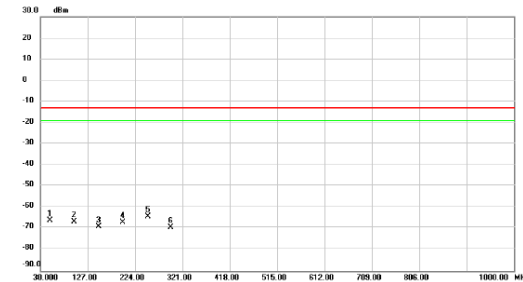
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	98.8700	-55.15	-16.51	-71.66	-13.00	-58.66	peak	
2	149.3100	-51.00	-11.73	-62.73	-13.00	-49.73	peak	
3	198.7800	-46.57	-14.82	-61.39	-13.00	-48.39	peak	
4 *	250.1900	-47.67	-13.01	-60.68	-13.00	-47.68	peak	
5	300.1450	-50.44	-11.34	-61.78	-13.00	-48.78	peak	
6	350.1000	-56.65	-10.20	-66.85	-13.00	-53.85	peak	

Test Mode : WCDMA Band II_TX CH9800

Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	49.8850	-54.72	-11.52	-66.24	-13.00	-53.24	peak	
2	98.8700	-50.24	-16.51	-66.75	-13.00	-53.75	peak	
3	148.3400	-57.46	-11.71	-69.17	-13.00	-56.17	peak	
4	198.7800	-52.18	-14.82	-67.00	-13.00	-54.00	peak	
5 *	250.1900	-51.34	-13.01	-64.35	-13.00	-51.35	peak	
6	296.7500	-58.18	-11.42	-69.60	-13.00	-56.60	peak	

Test Mode : WCDMA Band II_TX CH9800

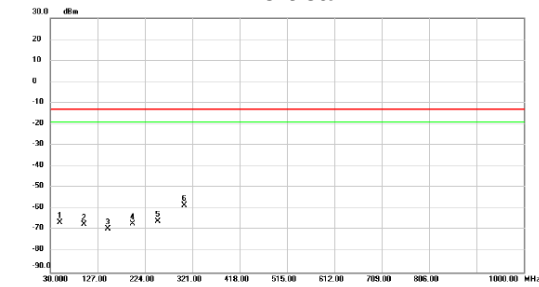
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	98.8700	-54.53	-16.51	-71.04	-13.00	-58.04	peak	
2	148.3400	-51.15	-11.77	-62.92	-13.00	-49.92	peak	
3	198.7800	-45.78	-14.82	-60.60	-13.00	-47.60	peak	
4 *	250.1900	-46.52	-13.01	-59.53	-13.00	-46.53	peak	
5	300.1450	-49.91	-11.34	-61.25	-13.00	-48.25	peak	
6	350.1000	-55.42	-10.20	-65.62	-13.00	-52.62	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

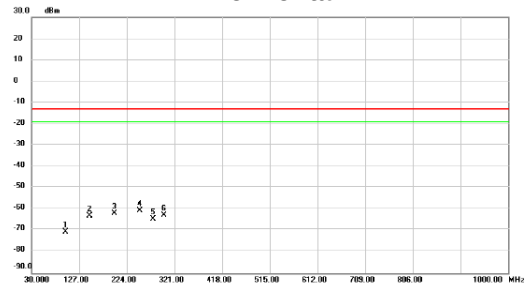
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	49.8850	-54.99	-11.52	-66.51	-13.00	-53.51	peak	
2	98.8700	-50.74	-16.51	-67.25	-13.00	-54.25	peak	
3	148.3400	-57.74	-11.77	-69.51	-13.00	-56.51	peak	
4	198.7800	-52.15	-14.82	-66.97	-13.00	-53.97	peak	
5	250.1900	-52.98	-13.01	-65.99	-13.00	-52.99	peak	
6	304.9950	-47.04	-11.18	-58.22	-13.00	-45.22	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

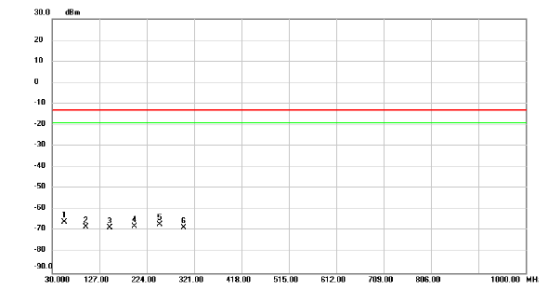
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	98.8700	-54.17	-16.51	-70.68	-13.00	-57.68	peak	
2	148.8250	-51.44	-11.75	-63.19	-13.00	-50.19	peak	
3	198.7800	-46.99	-14.82	-61.81	-13.00	-48.81	peak	
4	250.1900	-47.84	-13.01	-60.85	-13.00	-47.85	peak	
5	277.3500	-52.76	-11.94	-64.70	-13.00	-51.70	peak	
6	300.1450	-51.43	-11.34	-62.77	-13.00	-49.77	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

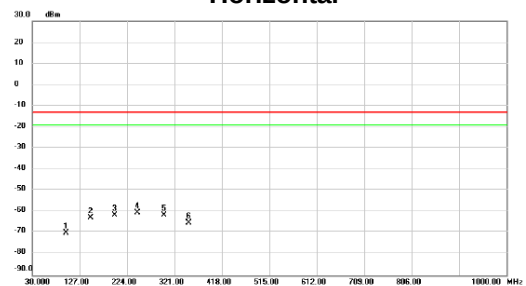
Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	55.7050	-54.07	-11.77	-65.84	-13.00	-52.84	peak	
2	98.8700	-51.70	-16.51	-68.21	-13.00	-55.21	peak	
3	148.8250	-56.73	-11.75	-68.48	-13.00	-55.48	peak	
4	198.7800	-53.02	-14.82	-67.84	-13.00	-54.84	peak	
5	250.1900	-53.98	-13.01	-66.99	-13.00	-53.99	peak	
6	300.1450	-57.18	-11.34	-68.52	-13.00	-55.52	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

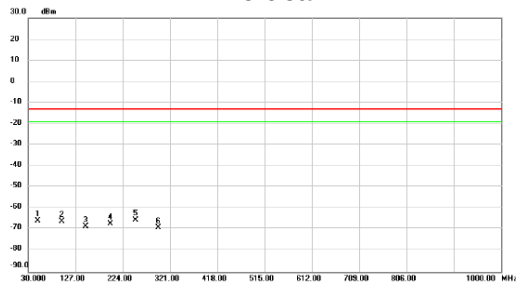
Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	98.8700	-53.65	-16.51	-70.16	-13.00	-57.16	peak	
2	149.3100	-51.16	-11.73	-62.89	-13.00	-49.89	peak	
3	198.7800	-46.87	-14.82	-61.69	-13.00	-48.69	peak	
4	245.8250	-47.42	-13.15	-60.57	-13.00	-47.57	peak	
5	300.1450	-50.29	-11.34	-61.63	-13.00	-48.63	peak	
6	350.1000	-54.95	-10.20	-65.15	-13.00	-52.15	peak	

Test Mode : LTE Band 2_TX CH18900_20MHz

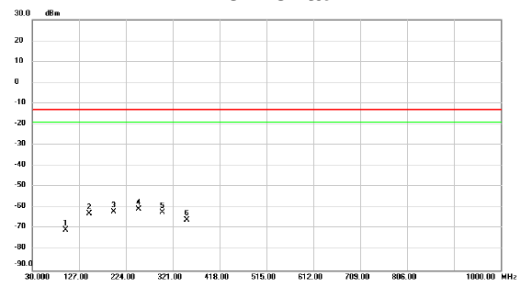
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		49.8850	-54.46	-11.52	-65.98	-13.00	-52.98	peak	
2		98.8700	-49.56	-16.51	-66.07	-13.00	-53.07	peak	
3		148.8250	-56.78	-11.75	-68.53	-13.00	-55.53	peak	
4		198.7800	-52.51	-14.82	-67.33	-13.00	-54.33	peak	
5	*	250.1900	-52.47	-13.01	-65.48	-13.00	-52.48	peak	
6		298.7500	-57.67	-11.42	-69.09	-13.00	-56.09	peak	

Test Mode : LTE Band 2_TX CH18900_20MHz

Horizontal

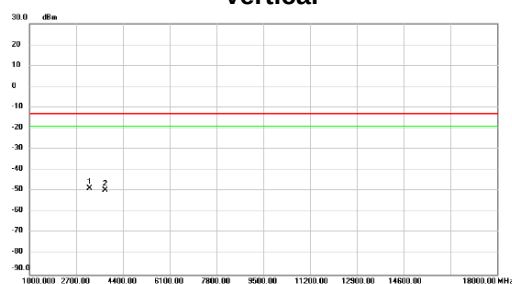


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		98.8700	-54.13	-16.51	-70.64	-13.00	-57.64	peak	
2		148.3400	-51.22	-11.77	-62.99	-13.00	-49.99	peak	
3		198.7800	-47.07	-14.82	-61.89	-13.00	-48.89	peak	
4	*	250.1900	-47.60	-13.01	-60.61	-13.00	-47.61	peak	
5		300.1450	-50.82	-11.34	-62.16	-13.00	-49.16	peak	
6		350.1000	-55.72	-10.20	-65.92	-13.00	-52.92	peak	

APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode : PCS1900_TX CH661_GSM

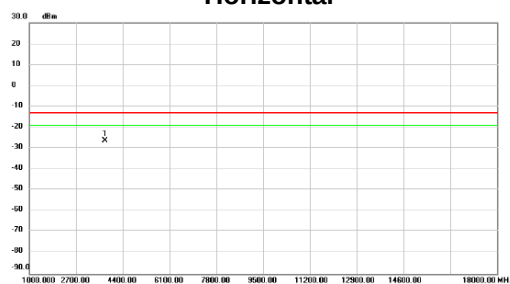
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3184.500	-46.20	-2.50	-48.70	-13.00	-35.70	peak	
2		3762.500	-48.77	-0.90	-49.67	-13.00	-36.67	peak	

Test Mode : PCS1900_TX CH661_GSM

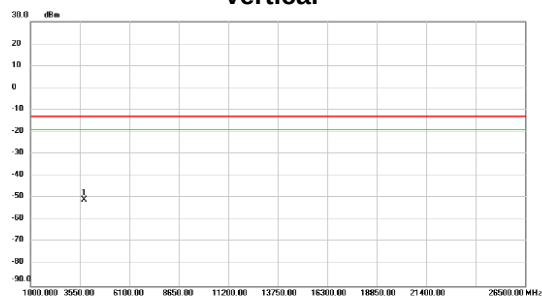
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3762.500	-25.33	-0.90	-26.23	-13.00	-13.23	peak	

Test Mode : WCDMA Band II_TX CH9800

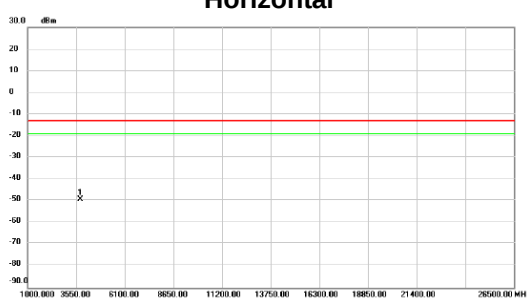
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-49.85	-0.93	-50.78	-13.00	-37.78	peak	

Test Mode : WCDMA Band II_TX CH9800

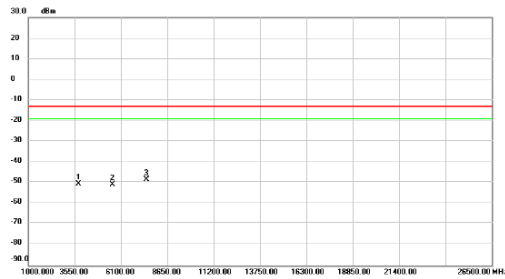
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3754.000	-48.45	-0.93	-49.38	-13.00	-36.38	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

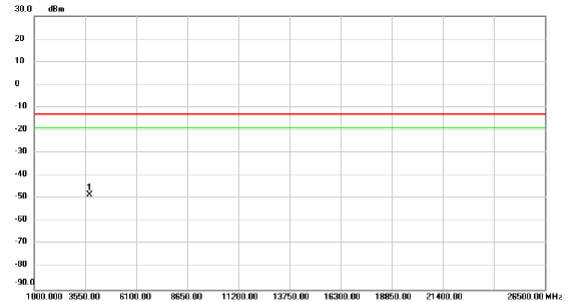
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3754.000	-49.67	-0.93	-50.60	-13.00	-37.60	peak	
2		5641.000	-54.12	3.40	-50.72	-13.00	-37.72	peak	
3	*	7515.250	-56.37	7.93	-48.44	-13.00	-35.44	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

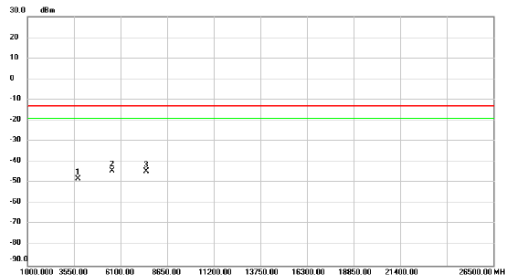
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-47.54	-0.93	-48.47	-13.00	-35.47	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

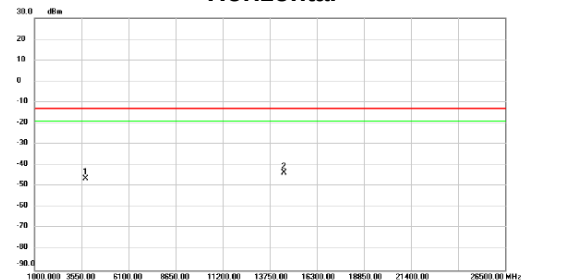
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3754.000	-47.20	-0.93	-48.13	-13.00	-35.13	peak	
2	*	5628.250	-47.65	3.35	-44.30	-13.00	-31.30	peak	
3		7515.250	-52.52	7.93	-44.59	-13.00	-31.59	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

Horizontal

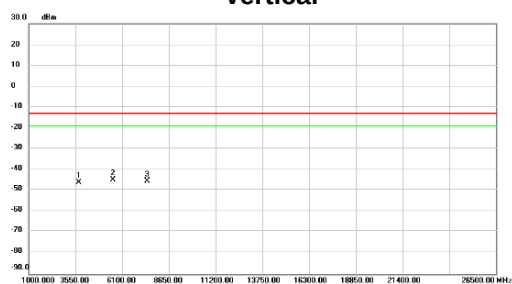


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		3754.000	-45.54	-0.93	-46.47	-13.00	-33.47	peak	
2	*	14527.75	-53.23	9.52	-43.71	-13.00	-30.71	peak	

Test Mode : LTE Band 2_TX CH18900_20MHz

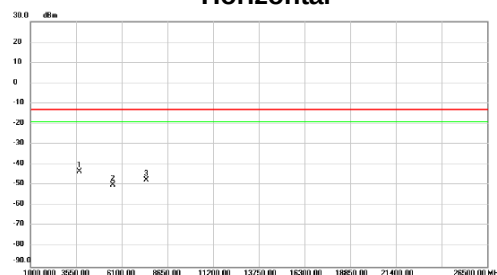
Test Mode : LTE Band 2_TX CH18900_20MHz

Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	3741.250	-45.17	-0.98	-46.15	-13.00	-33.15	peak	
2 *	5615.500	-48.04	3.31	-44.73	-13.00	-31.73	peak	
3	7489.750	-53.37	7.92	-45.45	-13.00	-32.45	peak	

Horizontal



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3741.250	-42.34	-0.98	-43.32	-13.00	-30.32	peak	
2	5615.500	-53.29	3.31	-49.98	-13.00	-36.98	peak	
3	7489.750	-55.39	7.92	-47.47	-13.00	-34.47	peak	

APPENDIX G - BAND EDGE

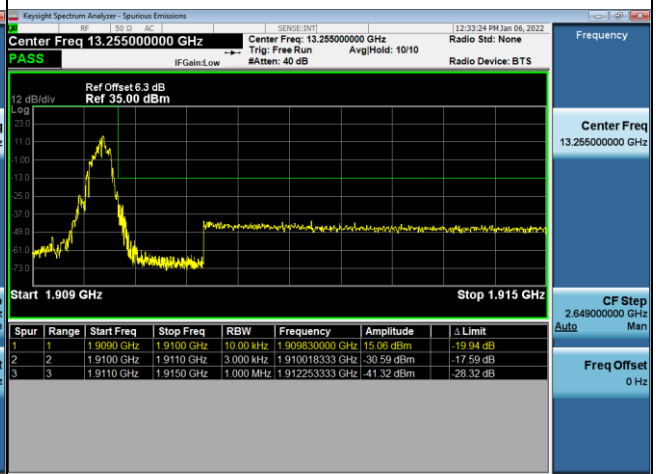
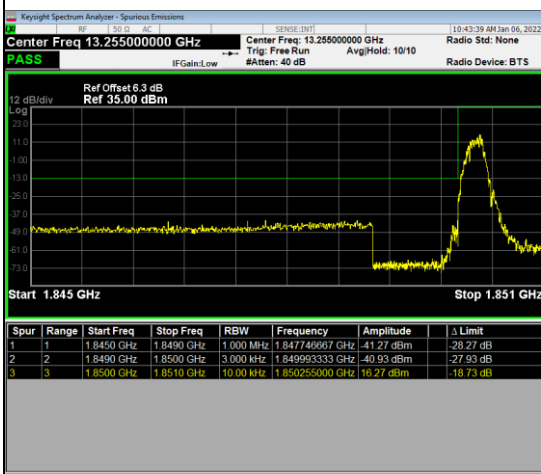
PCS1900_GSM Spectrum Plot

Channel

512

Channel

810



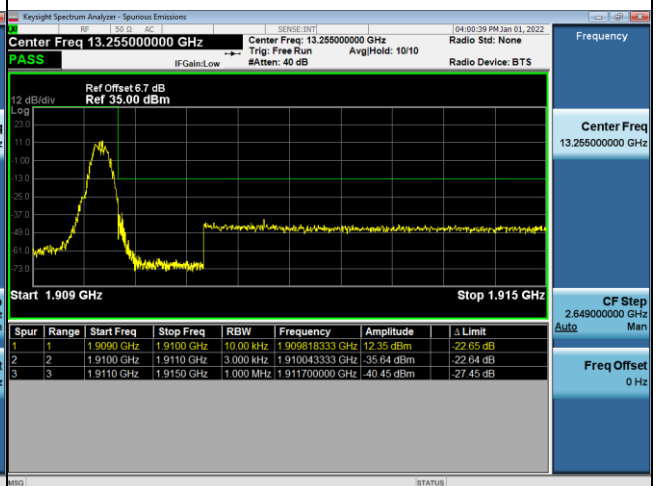
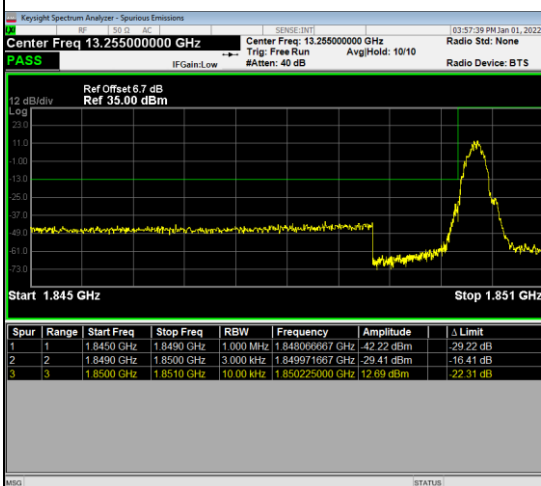
EDGE

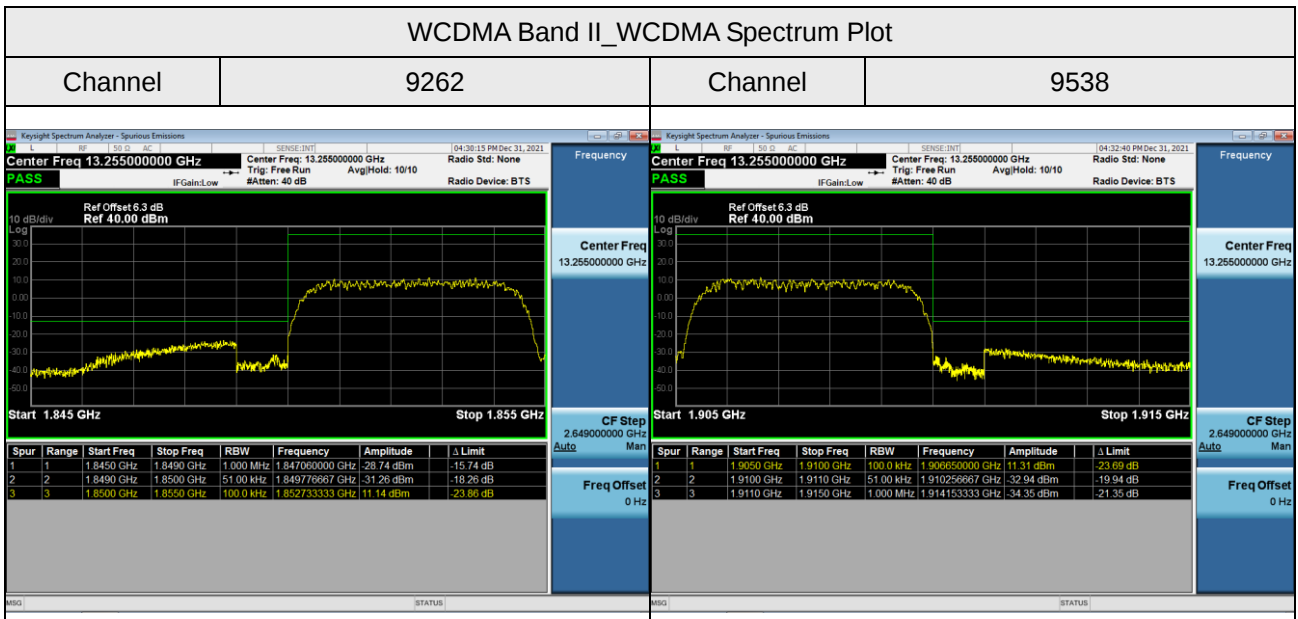
Channel

512

Channel

810





LTE Band 2_1.4MHz Spectrum Plot

1RB#0

1RB#5

Channel

18607

Channel

19193



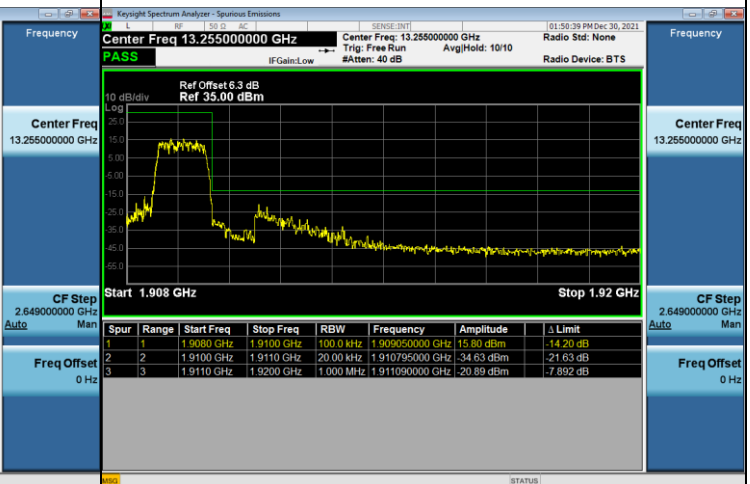
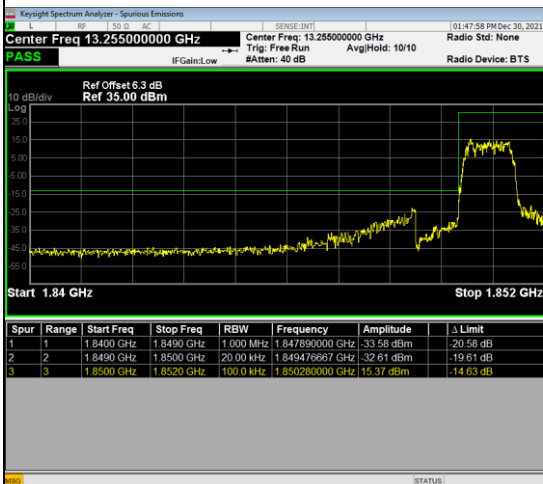
6RB#0

Channel

18607

Channel

19193



LTE Band 2_3MHz Spectrum Plot

1RB#0

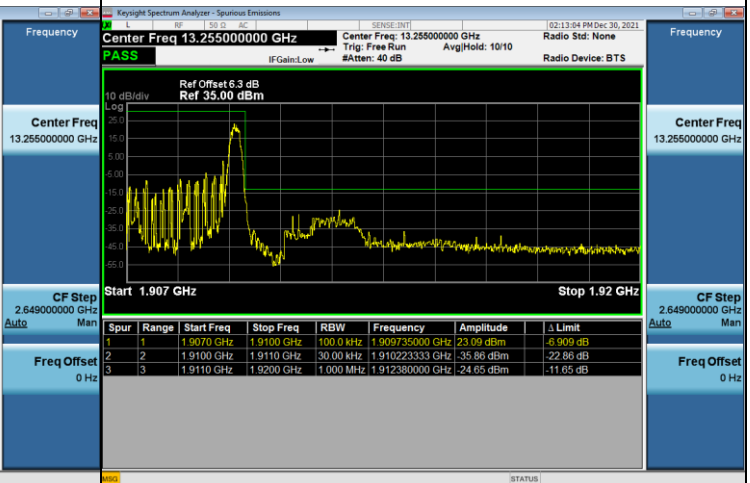
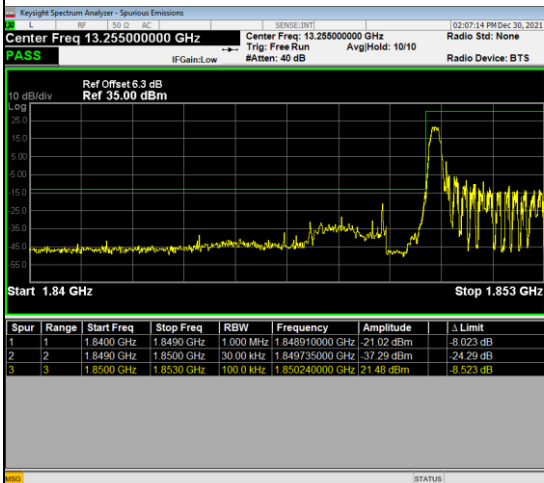
1RB#14

Channel

18615

Channel

19185



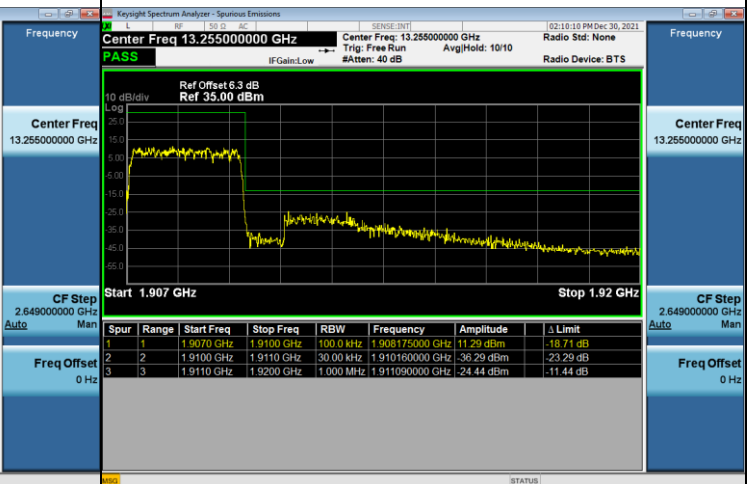
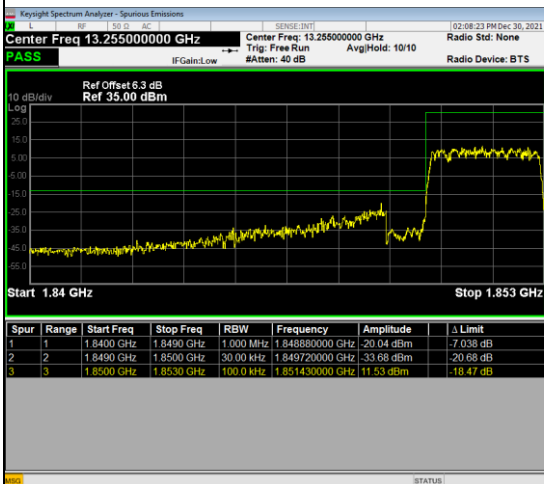
15RB#0

Channel

18615

Channel

19185



LTE Band 2_5MHz Spectrum Plot

1RB#0

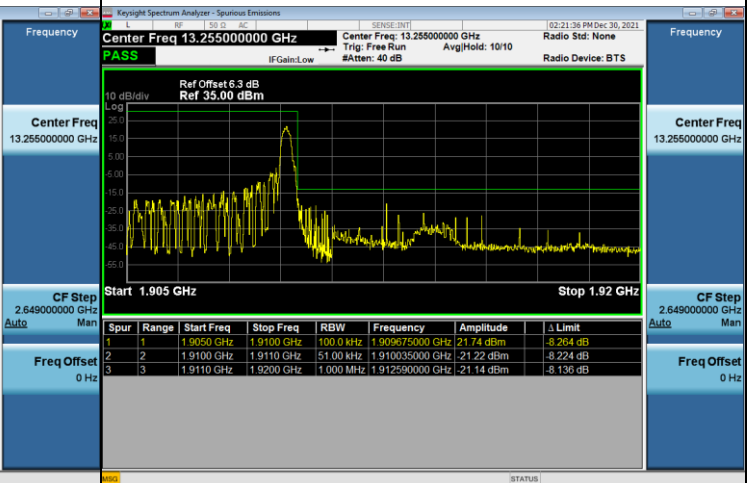
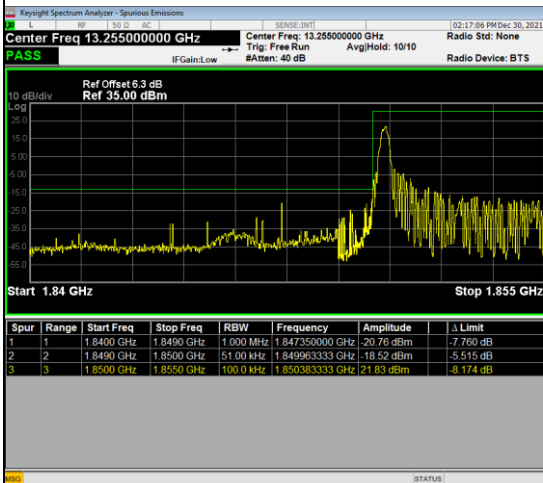
1RB#24

Channel

18625

Channel

19175



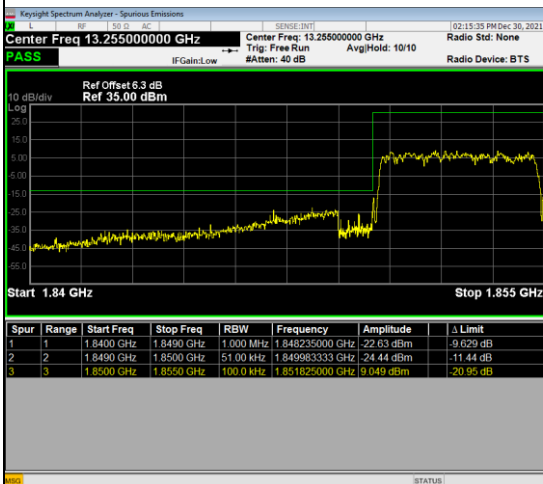
25RB#0

Channel

18625

Channel

19175



LTE Band 2_10MHz Spectrum Plot

1RB#0

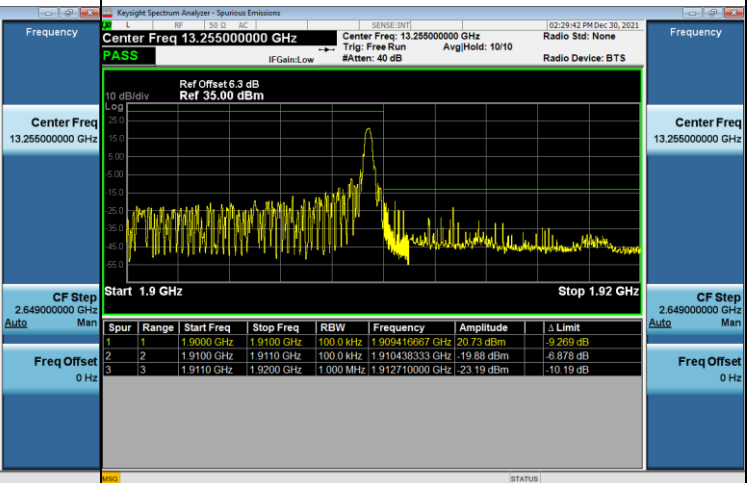
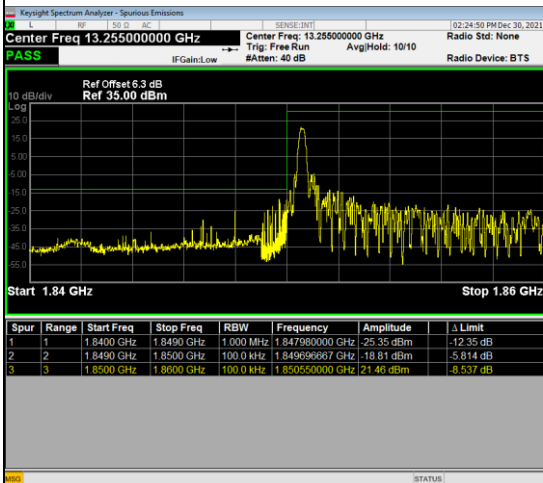
1RB#49

Channel

18650

Channel

19150



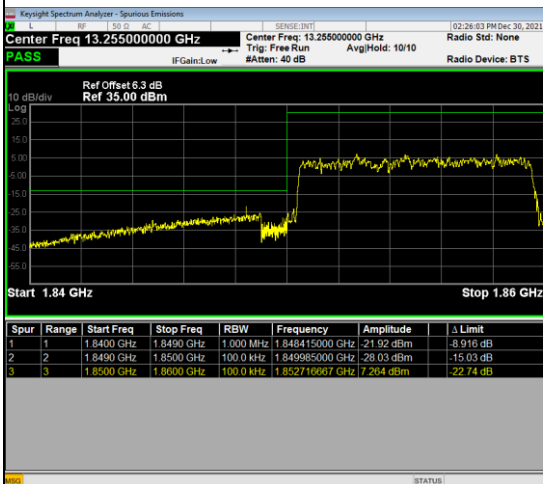
50RB#0

Channel

18650

Channel

19150



LTE Band 2_15MHz Spectrum Plot

1RB#0

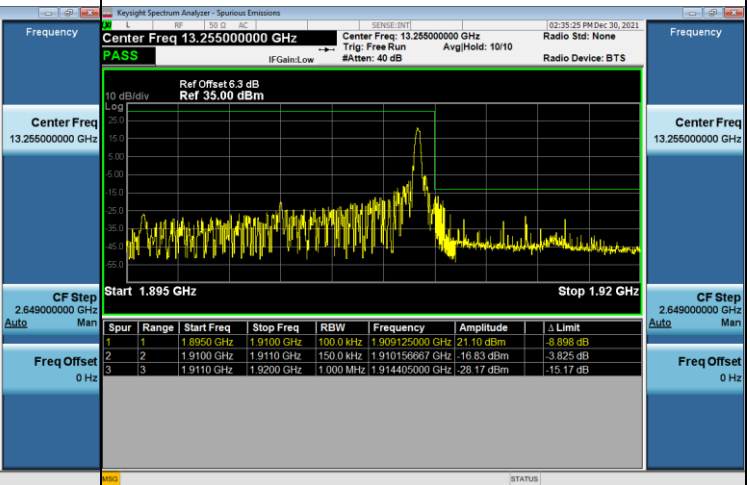
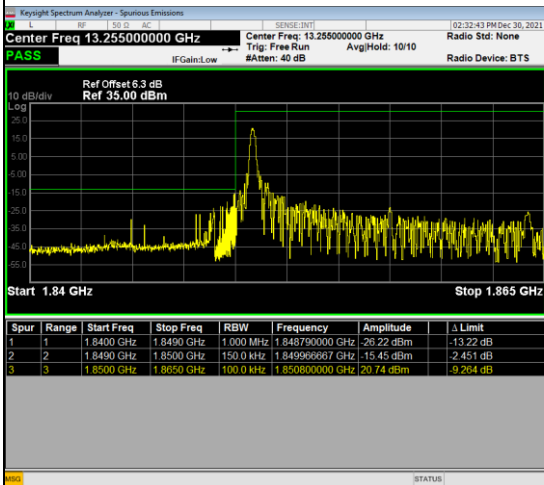
1RB#74

Channel

18675

Channel

19125



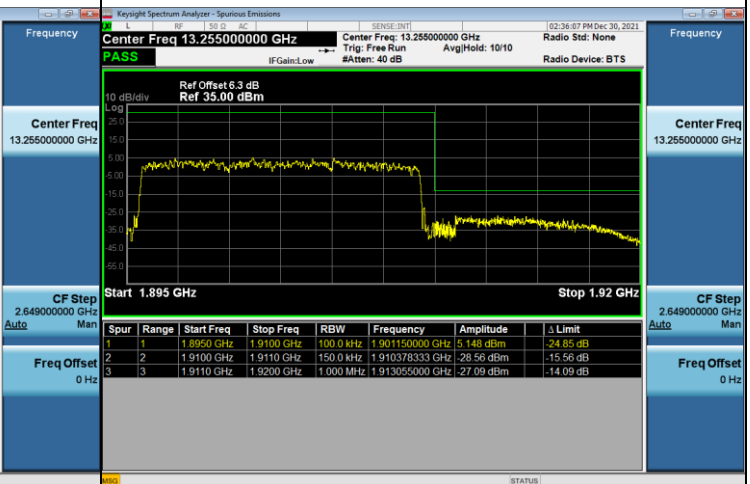
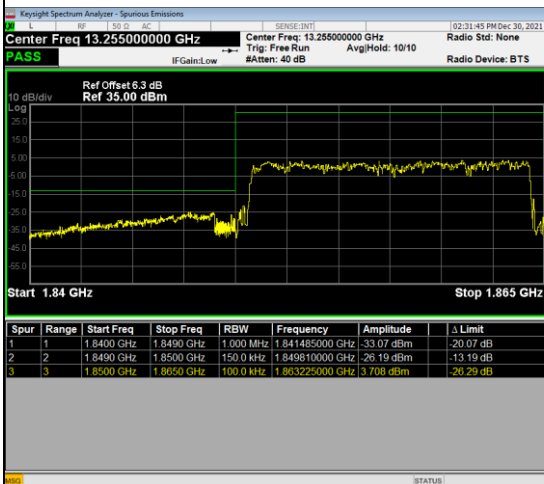
75RB#0

Channel

18675

Channel

19125



LTE Band 2_20MHz Spectrum Plot

1RB#0

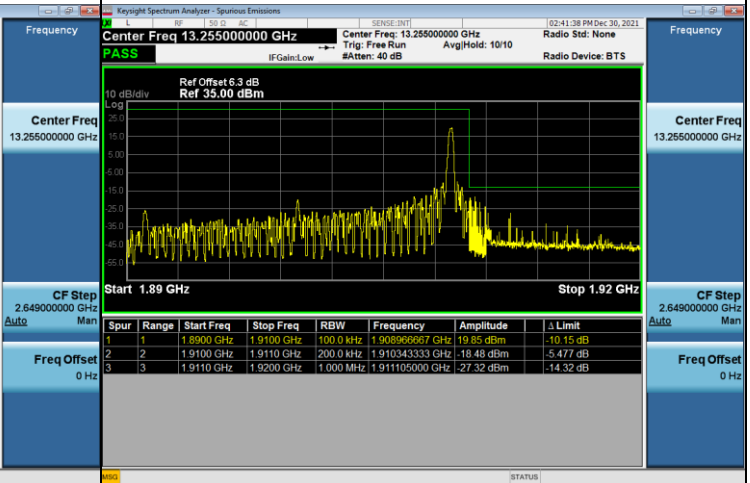
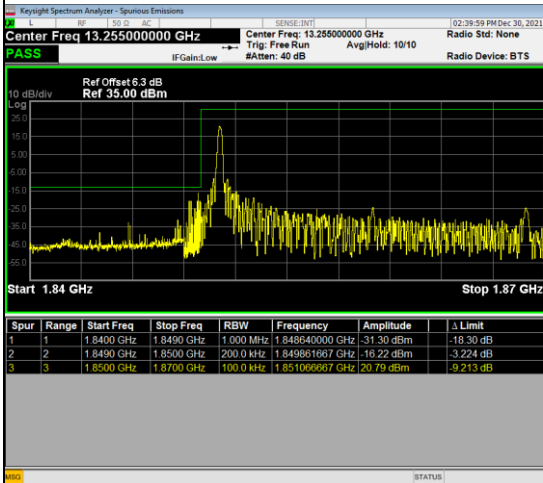
1RB#99

Channel

18700

Channel

19100



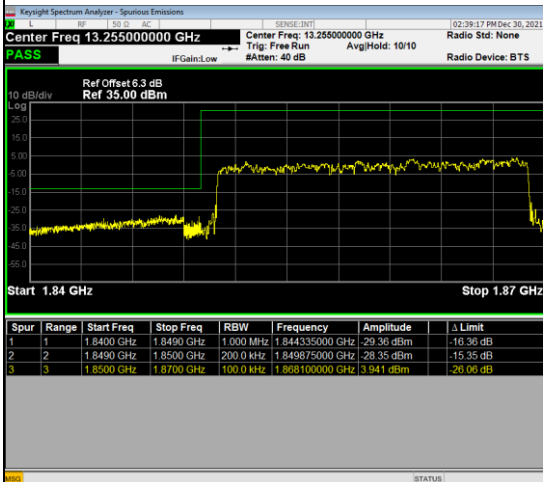
100RB#0

Channel

18700

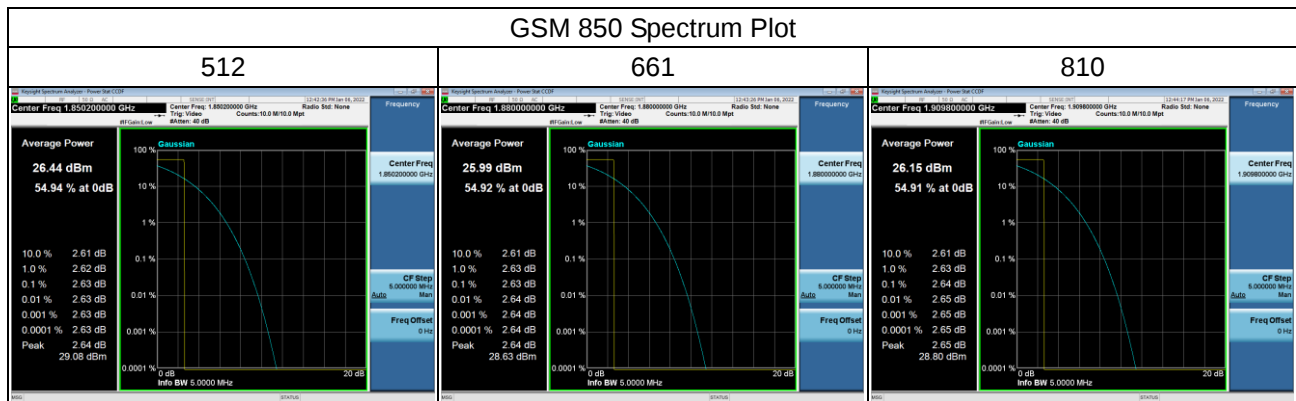
Channel

19100

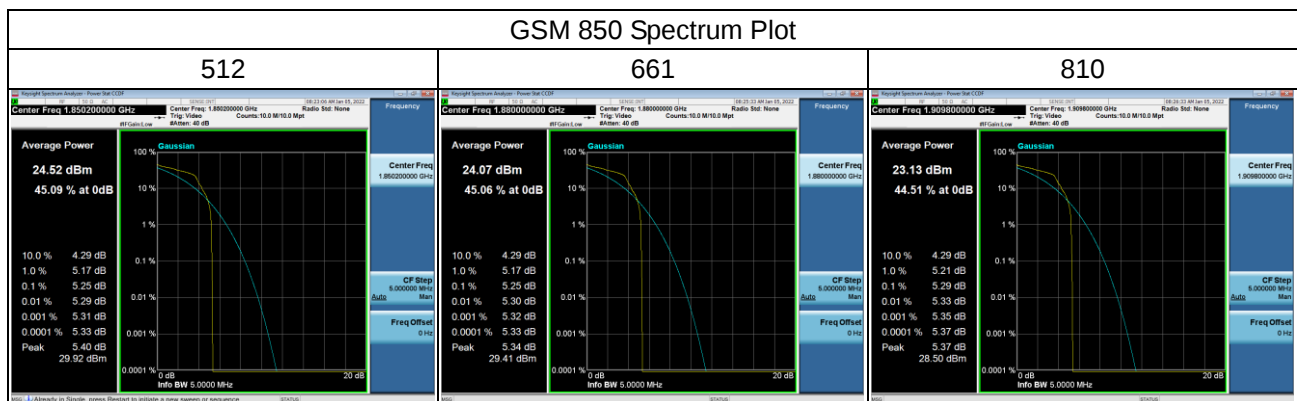


APPENDIX H - PEAK TO AVERAGE RATIO

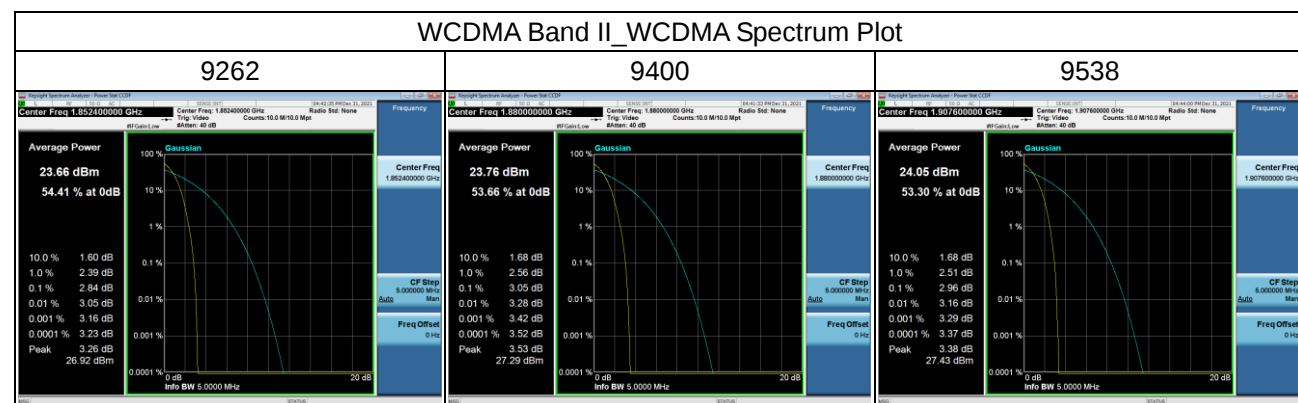
PCS1900_GSM				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
512	1850.2	2.63	13	Pass
661	1880	2.63	13	Pass
810	1909.8	2.64	13	Pass



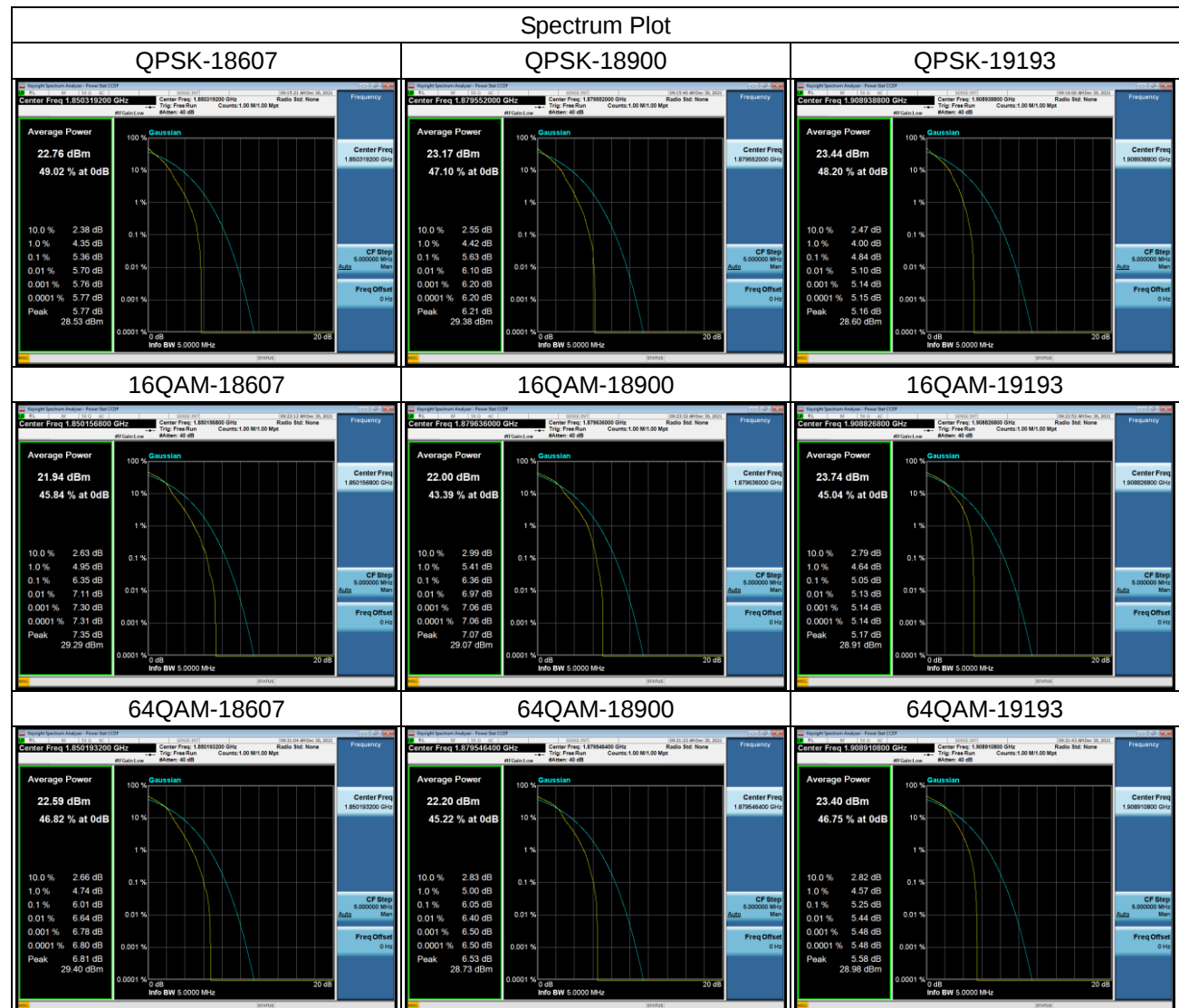
PCS1900_EDGE				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
512	1850.2	5.25	13	Pass
661	1880	5.25	13	Pass
810	1909.8	5.29	13	Pass



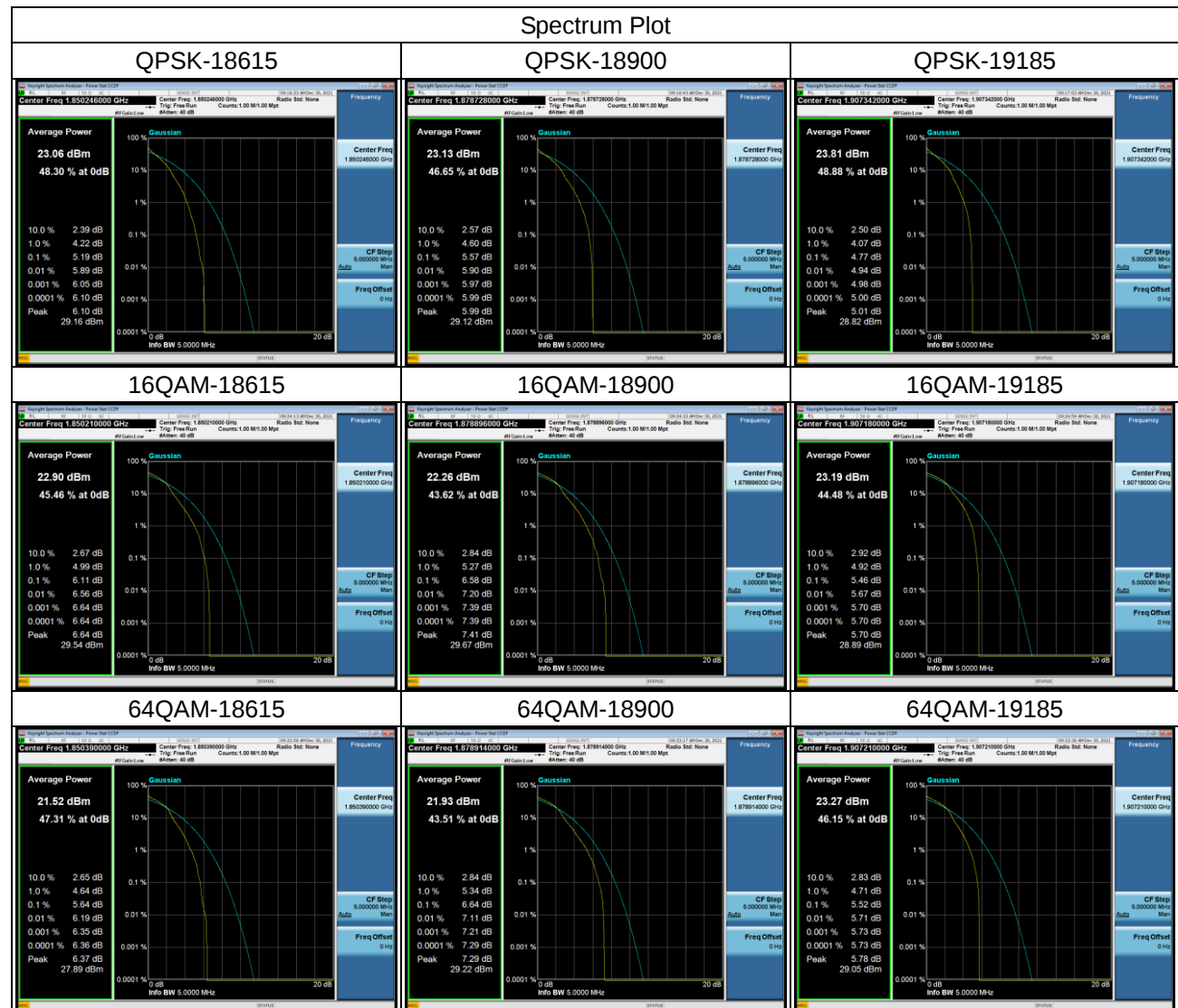
WCDMA Band II_WCDMA				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
9262	1852.4	2.84	13	Pass
9400	1880	3.05	13	Pass
9538	1907.6	2.96	13	Pass



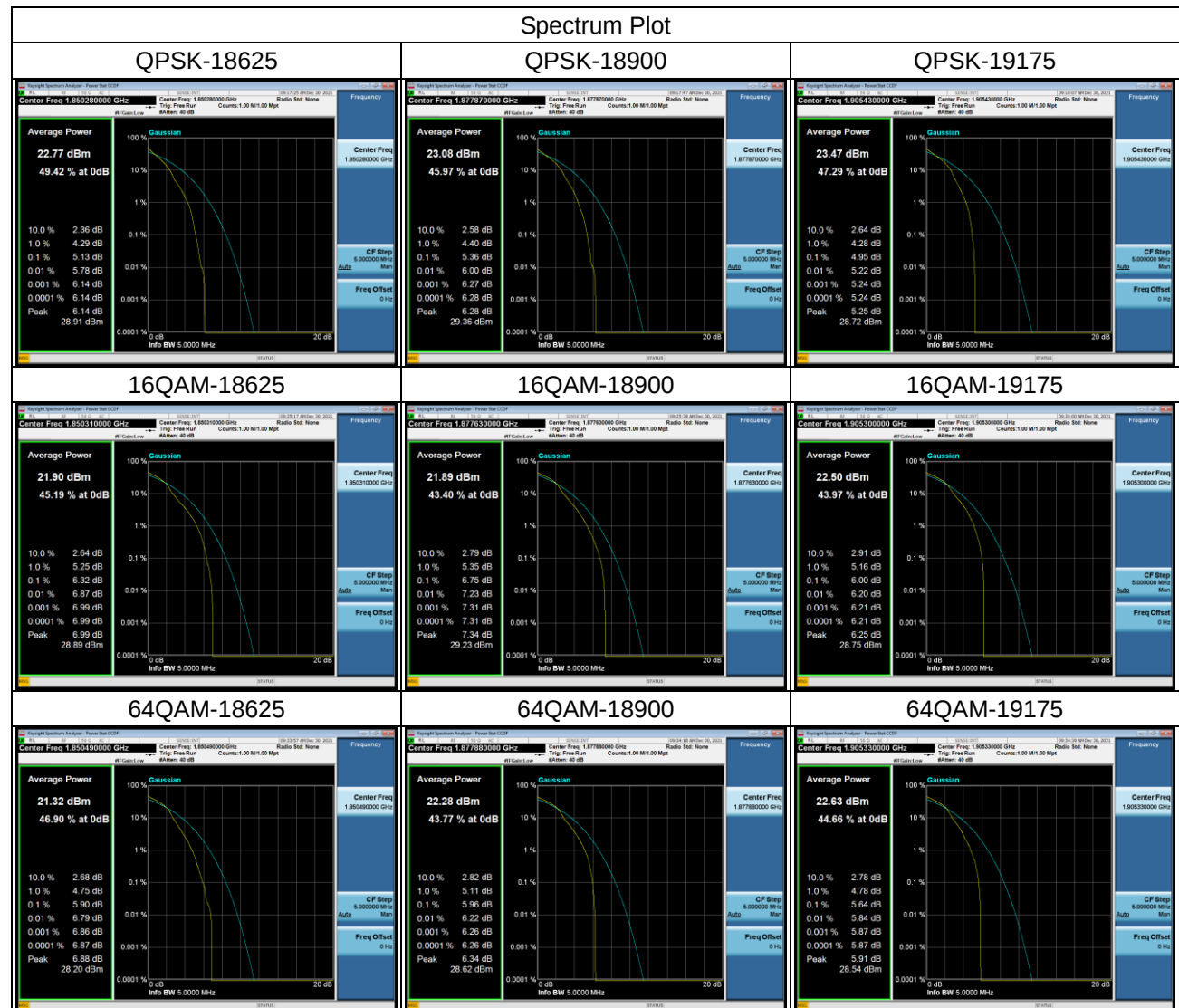
LTE Band 2_1.4MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
18607	1850.7	5.36	6.35	6.01	13	Pass
18900	1880	5.63	6.36	6.05	13	Pass
19193	1909.3	4.84	5.05	5.25	13	Pass



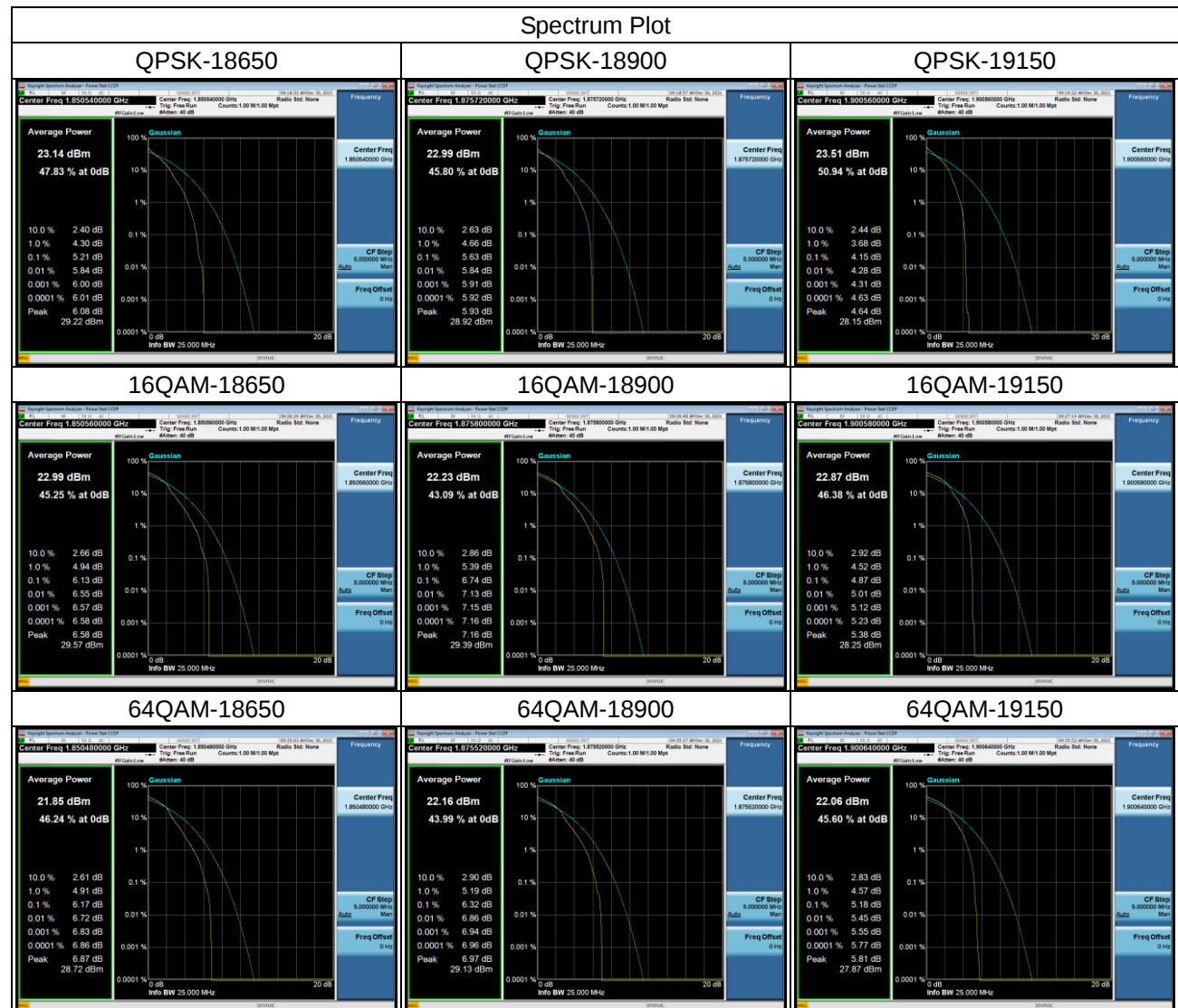
LTE Band 2_3MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
18615	1851.5	5.19	6.11	5.64	13	Pass
18900	1880	5.57	6.58	6.64	13	Pass
19185	1908.5	4.77	5.46	5.52	13	Pass



LTE Band 2_5MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
18625	1852.5	5.13	6.32	5.90	13	Pass
18900	1880	5.36	6.75	5.96	13	Pass
19175	1907.5	4.95	6.00	5.64	13	Pass



LTE Band 2_10MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
18650	1855	5.21	6.13	6.17	13	Pass
18900	1880	5.63	6.74	6.32	13	Pass
19150	1905	4.15	4.87	5.18	13	Pass



LTE Band 2_15MHz						
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Max. Limit (dB)	Result
		QPSK	16QAM	64QAM		
18675	1857.5	5.25	6.08	6.47	13	Pass
18900	1880	5.40	6.44	6.23	13	Pass
19125	1902.5	4.26	4.80	5.02	13	Pass

