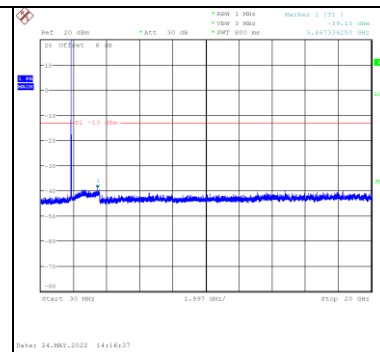
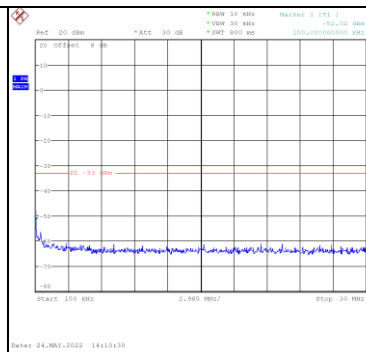
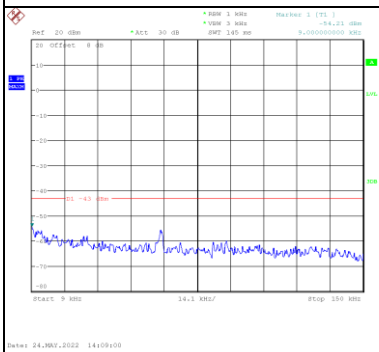
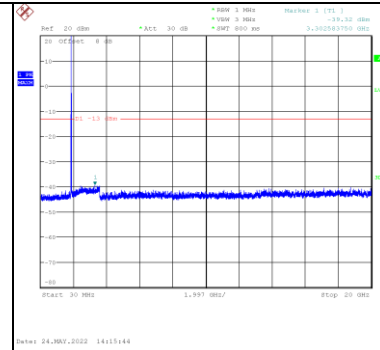
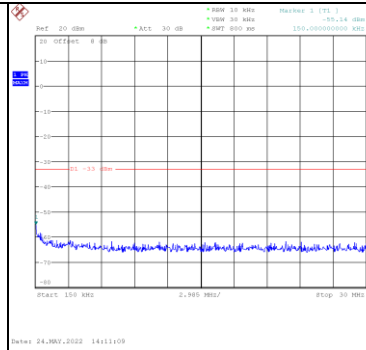
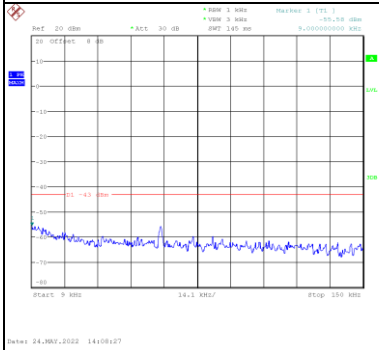


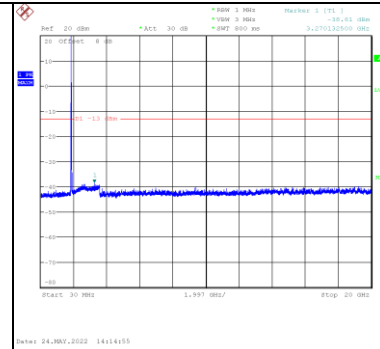
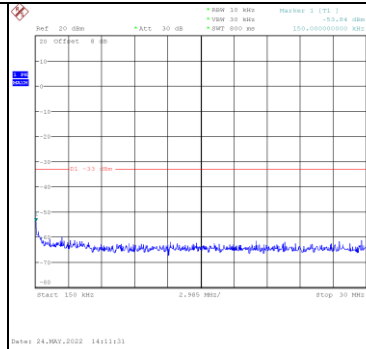
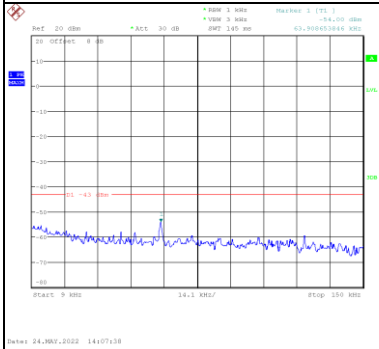
LTE Band 2_1.4MHz_CH18900 Spectrum Plot



LTE Band 2_5MHz_CH18900 Spectrum Plot



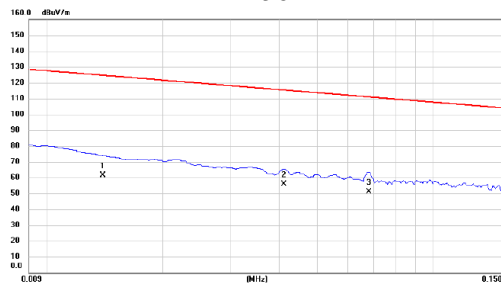
LTE Band 2_20MHz_CH18900 Spectrum Plot



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

Test Mode : TX Mode

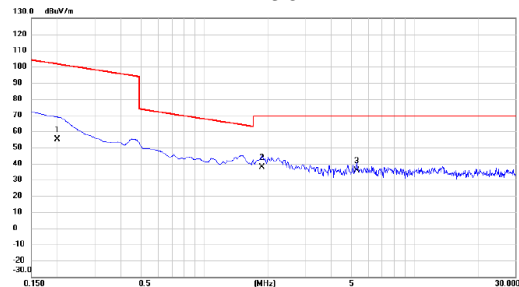
Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	0.0140	45.38	16.18	61.56	124.68	-63.12	AVG		
2 *	0.0410	42.15	13.81	55.96	115.35	-59.39	AVG		
3	0.0680	37.56	13.61	51.17	110.95	-59.78	AVG		

Test Mode : TX Mode

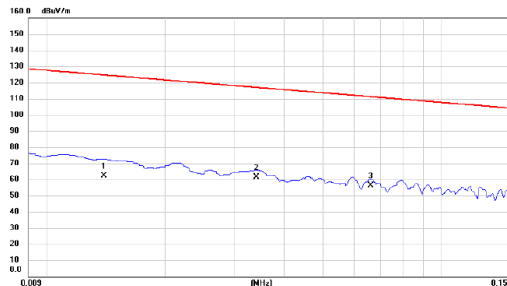
Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	0.1995	41.25	13.87	55.12	101.61	-46.49	AVG		
2 *	1.8811	25.36	12.54	37.90	69.54	-31.64	QP		
3	5.2842	23.48	12.30	35.78	69.54	-33.76	QP		

Test Mode : TX Mode

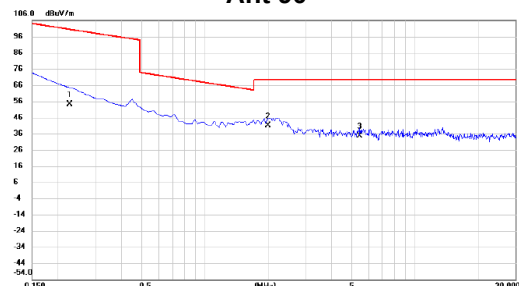
Ant 90°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	0.0140	45.89	16.18	62.07	124.68	-62.61	AVG		
2	0.0340	47.38	13.97	61.35	116.98	-55.63	AVG		
3 *	0.0661	42.61	13.61	56.22	111.20	-54.98	AVG		

Test Mode : TX Mode

Ant 90°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	0.2267	40.15	13.86	54.01	100.50	-46.49	AVG		
2 *	2.0007	28.62	12.45	41.07	69.54	-28.47	QP		
3	5.4333	22.34	12.31	34.65	69.54	-34.89	QP		

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

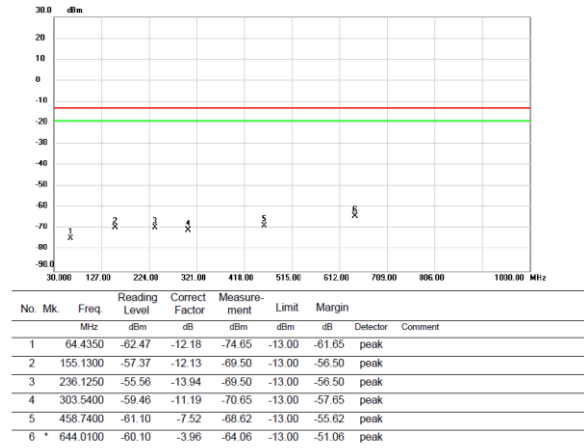
Test Mode : PCS1900_TX CH661_GSM

Vertical



Test Mode : PCS1900_TX CH661_GSM

Horizontal



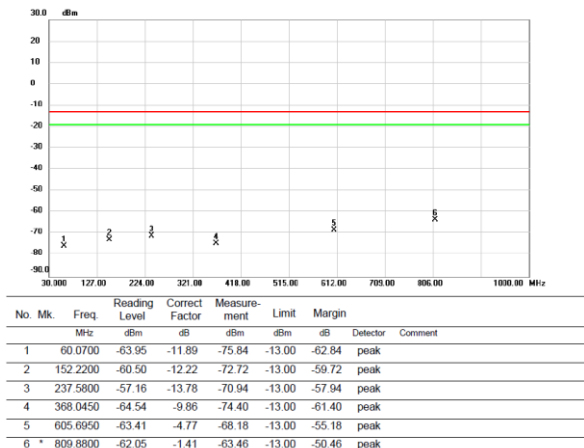
Test Mode : WCDMA Band II_TX CH9400

Vertical



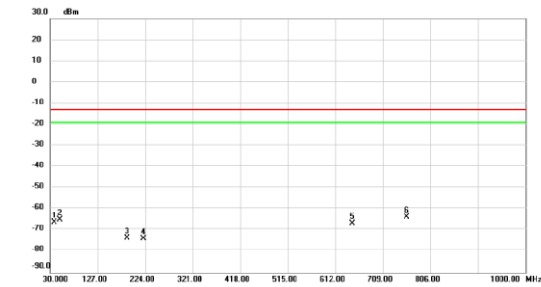
Test Mode : WCDMA Band II_TX CH9400

Horizontal



Test Mode : LTE Band 2_TX CH18900_1.4MHz

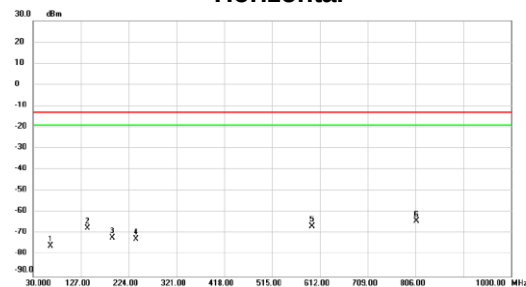
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		38.7300	-53.53	-12.49	-66.02	-13.00	-53.02	peak	
2		49.4000	-53.25	-11.81	-65.06	-13.00	-52.06	peak	
3		187.1400	-59.90	-13.63	-73.53	-13.00	-60.53	peak	
4		221.0900	-58.69	-15.19	-73.88	-13.00	-60.88	peak	
5		645.9500	-62.85	-3.91	-66.76	-13.00	-53.76	peak	
6	*	757.5000	-61.73	-2.00	-63.73	-13.00	-50.73	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

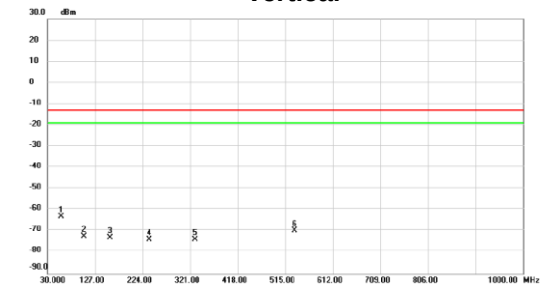
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		65.4050	-63.57	-12.27	-75.84	-13.00	-62.84	peak	
2		141.0650	-54.43	-12.88	-67.31	-13.00	-54.31	peak	
3		190.5350	-57.80	-13.96	-71.76	-13.00	-58.76	peak	
4		238.5500	-58.88	-13.68	-72.56	-13.00	-59.56	peak	
5		595.9950	-61.49	-5.00	-66.49	-13.00	-53.49	peak	
6	*	807.4550	-62.52	-1.41	-63.93	-13.00	-50.93	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

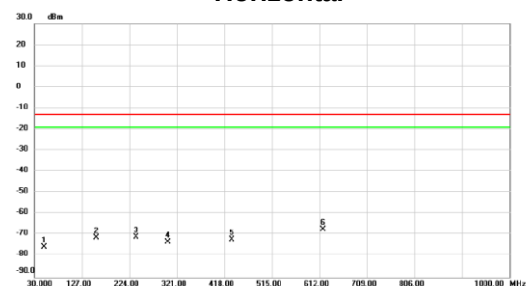
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1	*	57.1600	-51.14	-11.86	-63.00	-13.00	-50.00	peak	
2		104.6900	-56.93	-15.59	-72.52	-13.00	-59.52	peak	
3		157.5550	-60.93	-12.06	-72.99	-13.00	-59.99	peak	
4		237.5800	-60.04	-13.78	-73.82	-13.00	-60.82	peak	
5		330.7000	-63.40	-10.51	-73.91	-13.00	-60.91	peak	
6		533.9150	-63.61	-6.25	-69.86	-13.00	-56.86	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

Horizontal

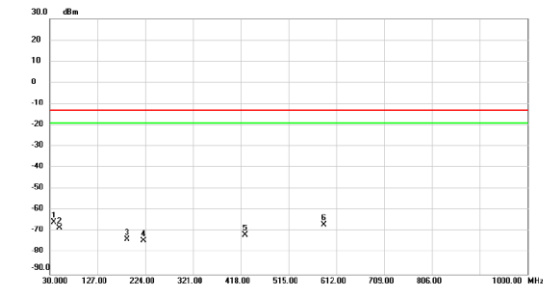


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBm	dB	dBm	dBm	dB		
1		49.8850	-63.88	-11.82	-75.70	-13.00	-62.70	peak	
2		155.6150	-59.27	-12.12	-71.39	-13.00	-58.39	peak	
3		238.0650	-57.10	-13.73	-70.83	-13.00	-57.83	peak	
4		301.8000	-61.99	-11.23	-73.22	-13.00	-60.22	peak	
5		433.0350	-63.89	-8.17	-72.06	-13.00	-59.06	peak	
6	*	618.7900	-62.82	-4.50	-67.32	-13.00	-54.32	peak	

Test Mode : LTE Band 2_TX CH18900_20MHz

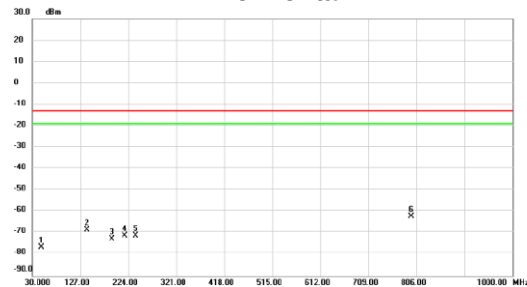
Test Mode : LTE Band 2_TX CH18900_20MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	38.7300	-53.16	-12.49	-65.65	-13.00	-52.65	peak	
2		49.4000	-56.54	-11.81	-68.35	-13.00	-55.35	peak	
3		187.6250	-59.97	-13.66	-73.63	-13.00	-60.63	peak	
4		220.6050	-59.07	-15.22	-74.29	-13.00	-61.29	peak	
5		425.7600	-63.03	-8.37	-71.40	-13.00	-58.40	peak	
6		586.2950	-61.68	-5.21	-66.89	-13.00	-53.89	peak	

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1		48.9150	-64.75	-11.81	-76.56	-13.00	-63.56	peak	
2		140.5800	-55.75	-12.90	-68.65	-13.00	-55.65	peak	
3		191.5050	-58.71	-14.07	-72.78	-13.00	-59.78	peak	
4		216.2400	-56.00	-15.33	-71.33	-13.00	-58.33	peak	
5		238.5500	-57.64	-13.68	-71.32	-13.00	-58.32	peak	
6	*	794.3600	-60.74	-1.47	-62.21	-13.00	-49.21	peak	

APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)

Test Mode : PCS1900_TX CH661_GSM

Vertical



Test Mode : PCS1900_TX CH661_GSM

Horizontal



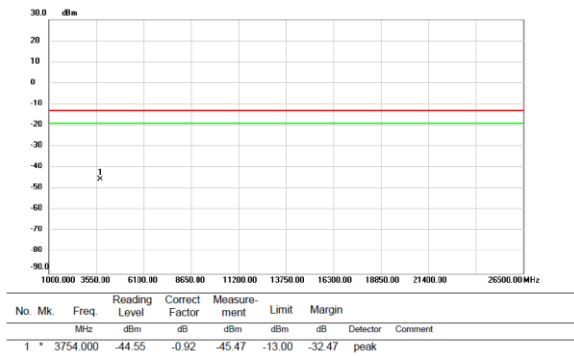
Test Mode : WCDMA Band II_TX CH9400

Vertical



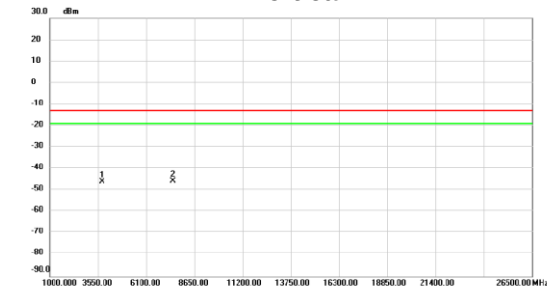
Test Mode : WCDMA Band II_TX CH9400

Horizontal



Test Mode : LTE Band 2_TX CH18900_1.4MHz

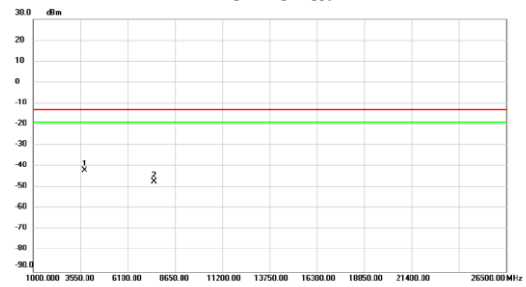
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-45.17	-0.92	-46.09	-13.00	-33.09	peak	
2	*	7515.250	-53.36	7.76	-45.60	-13.00	-32.60	peak	

Test Mode : LTE Band 2_TX CH18900_1.4MHz

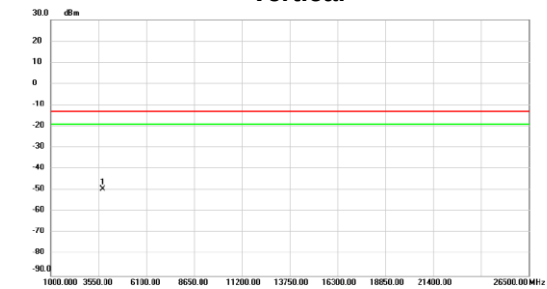
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-40.94	-0.92	-41.86	-13.00	-28.86	peak	
2	*	7515.250	-54.86	7.76	-47.10	-13.00	-34.10	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

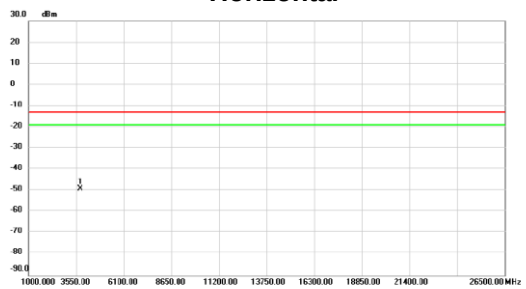
Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3766.750	-48.60	-0.86	-49.46	-13.00	-36.46	peak	

Test Mode : LTE Band 2_TX CH18900_5MHz

Horizontal

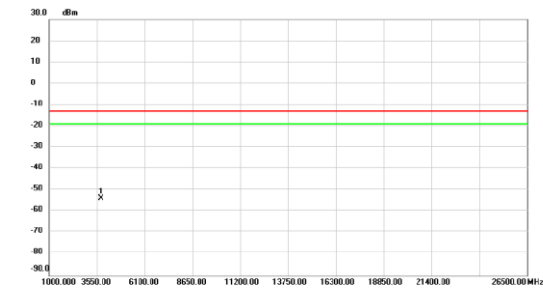


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Margin dB	Detector	Comment
1	*	3754.000	-48.02	-0.92	-48.94	-13.00	-35.94	peak	

Test Mode : LTE Band 2_TX CH18900_20MHz

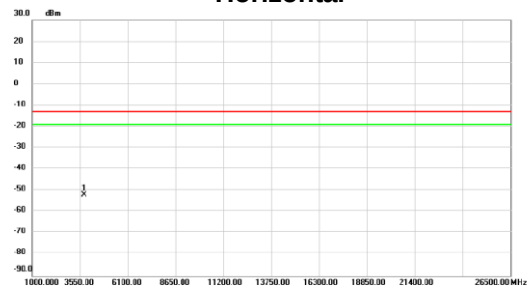
Test Mode : LTE Band 2_TX CH18900_20MHz

Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-52.78	-0.92	-53.70	-13.00	-40.70	peak	

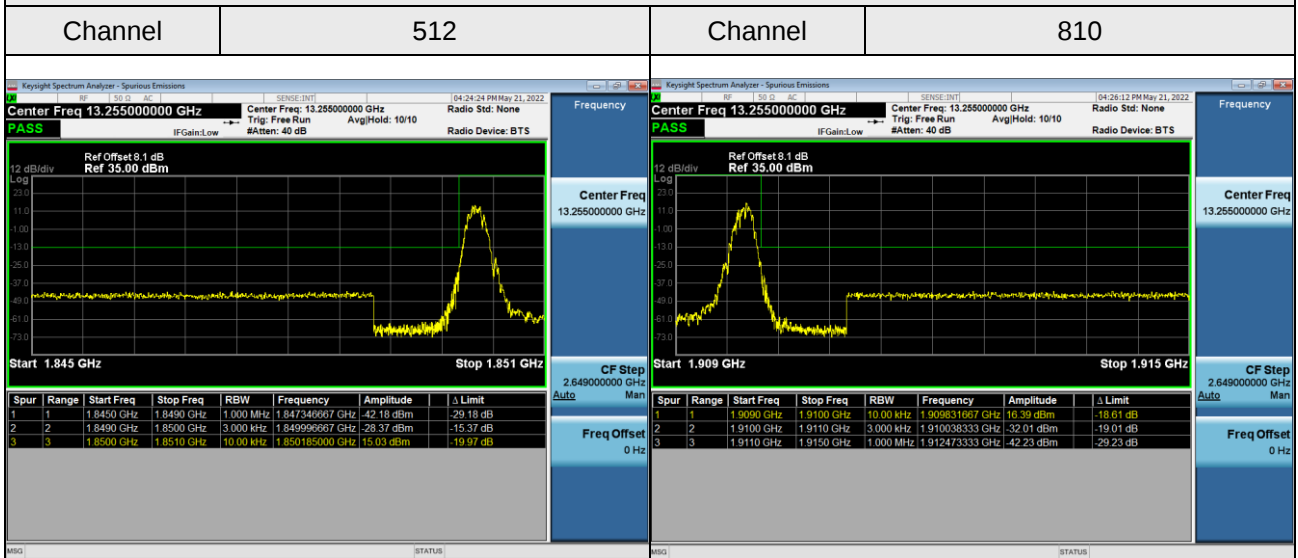
Horizontal



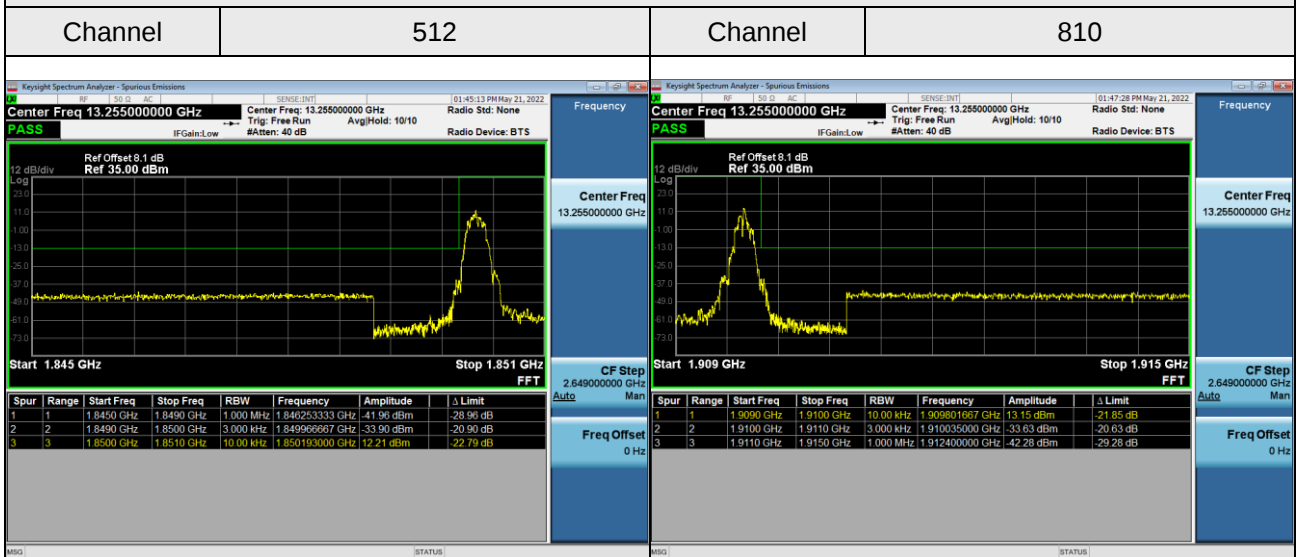
No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-51.13	-0.92	-52.05	-13.00	-39.05	peak	

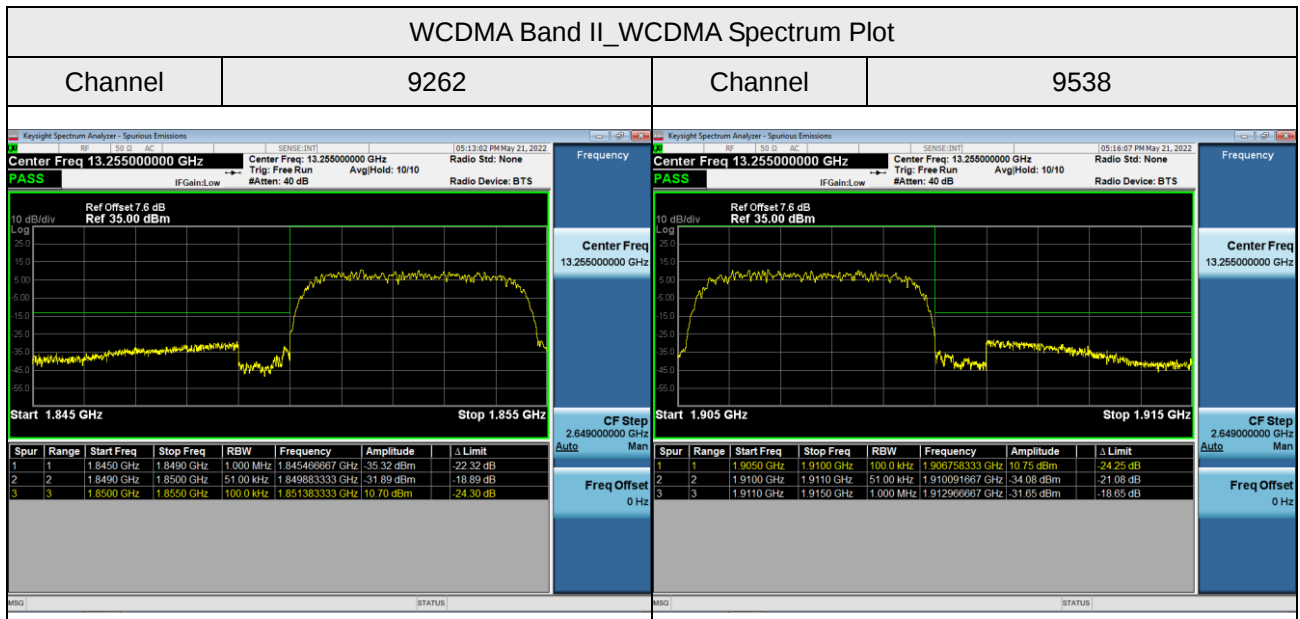
APPENDIX G - BAND EDGE

PCS1900_GSM Spectrum Plot



EDGE





LTE Band 2_1.4MHz Spectrum Plot

1RB#0

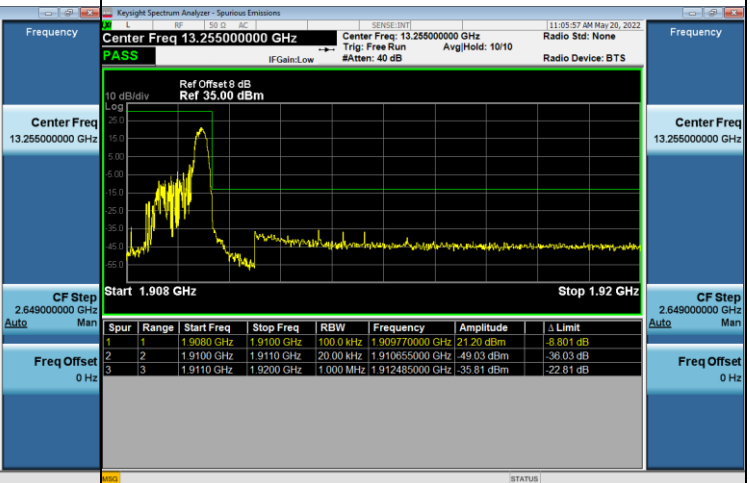
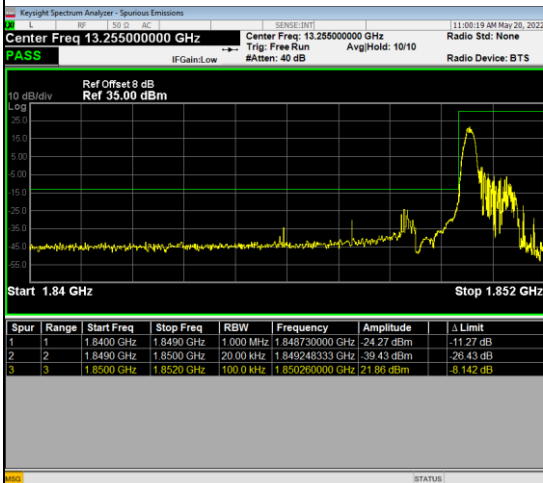
1RB#5

Channel

18607

Channel

19193



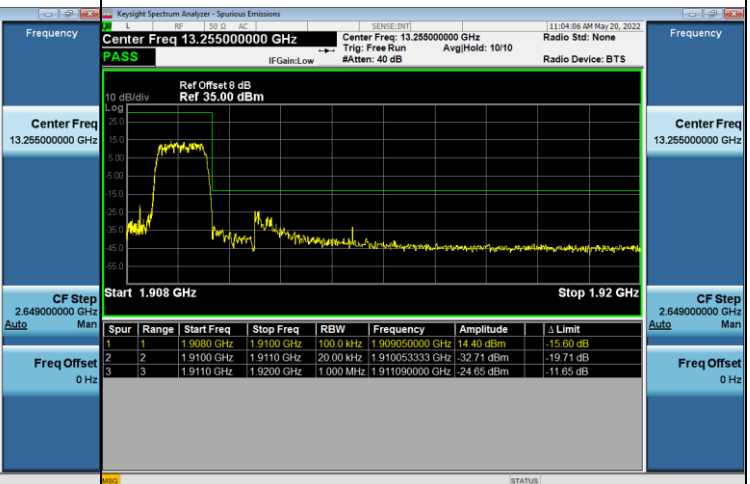
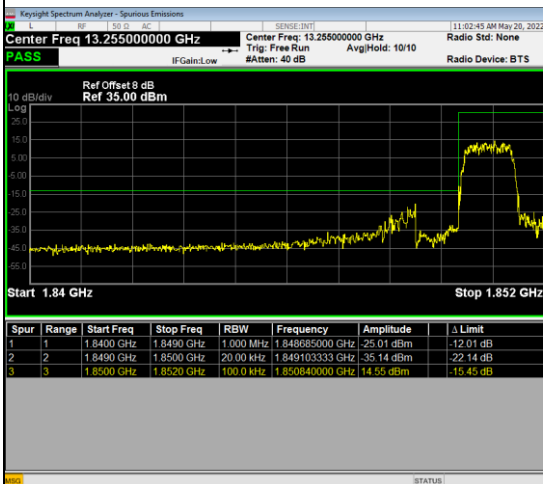
6RB#0

Channel

18607

Channel

19193



LTE Band 2_3MHz Spectrum Plot

1RB#0

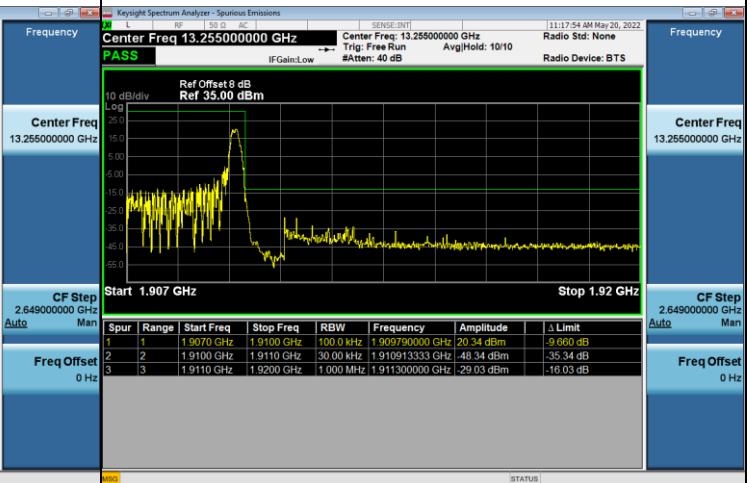
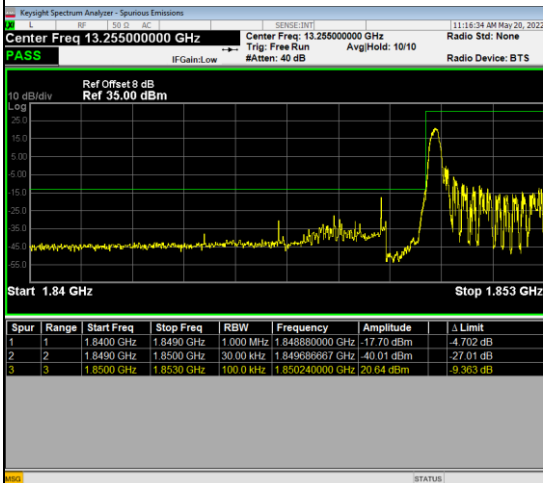
1RB#14

Channel

18615

Channel

19185



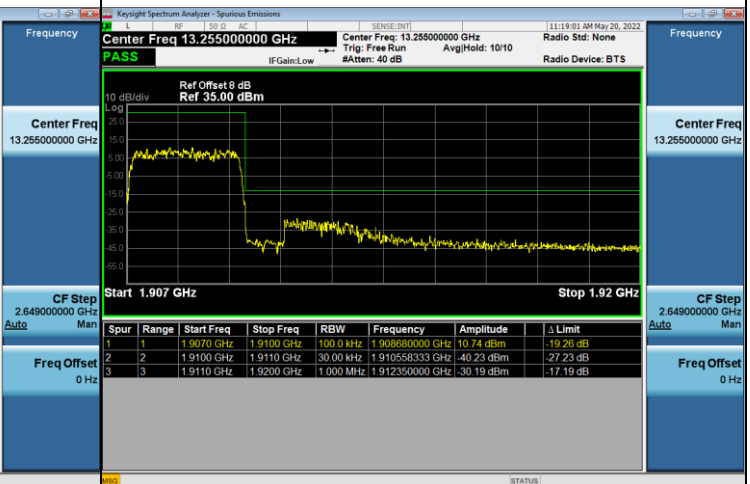
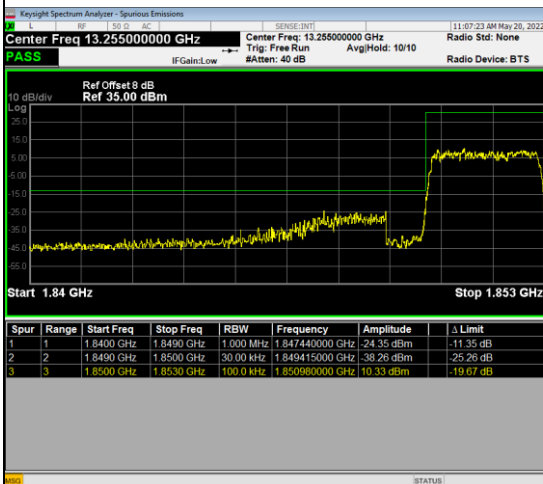
15RB#0

Channel

18615

Channel

19185



LTE Band 2_5MHz Spectrum Plot

1RB#0

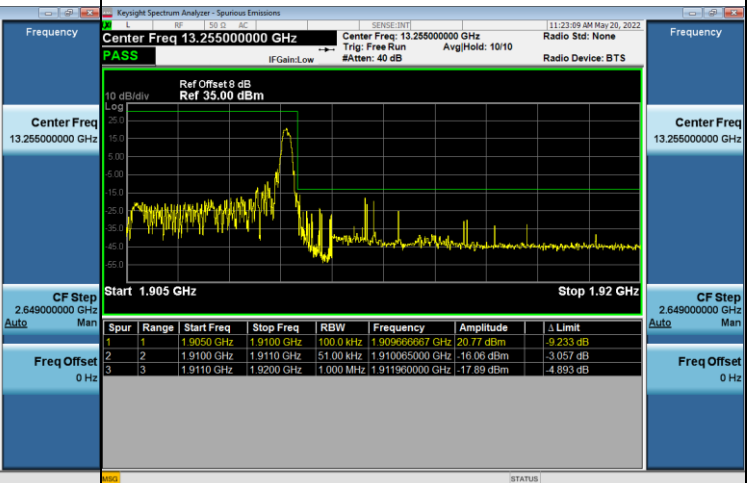
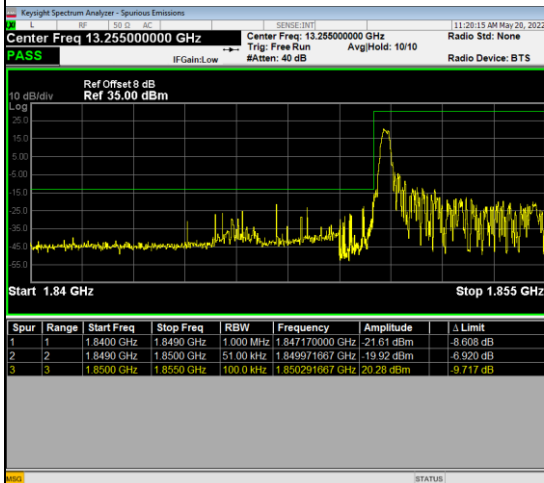
1RB#24

Channel

18625

Channel

19175



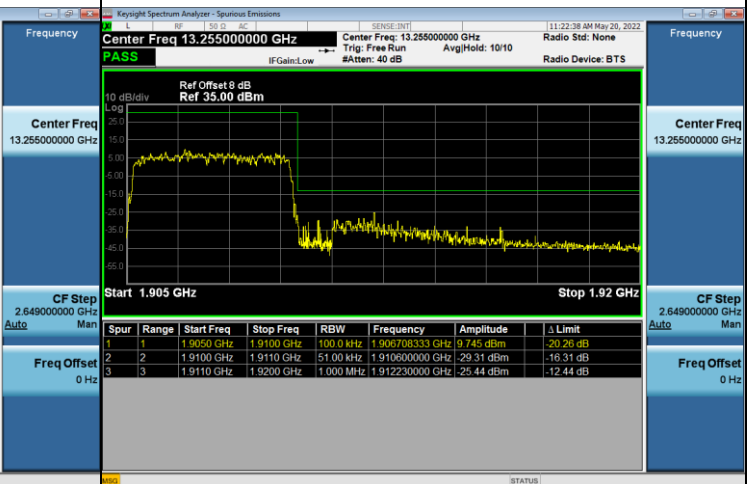
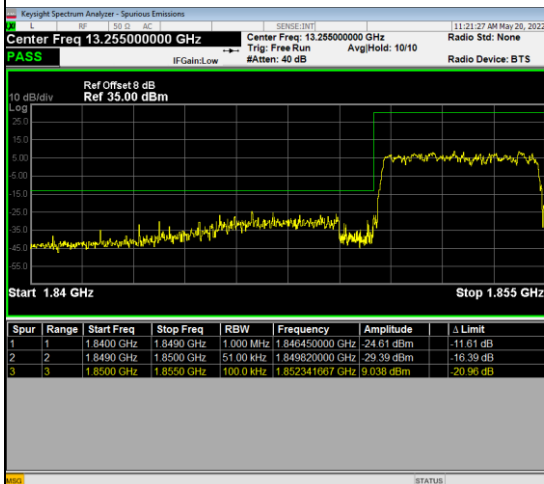
25RB#0

Channel

18625

Channel

19175



LTE Band 2_10MHz Spectrum Plot

1RB#0

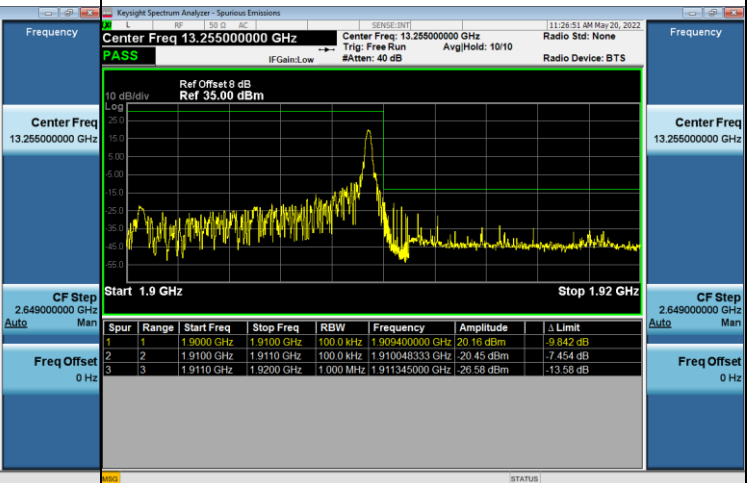
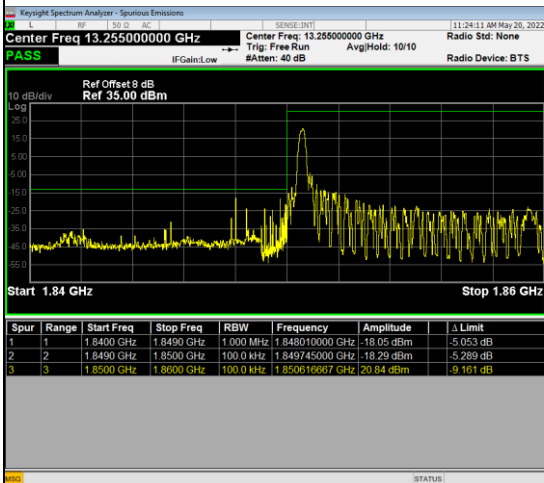
1RB#49

Channel

18650

Channel

19150



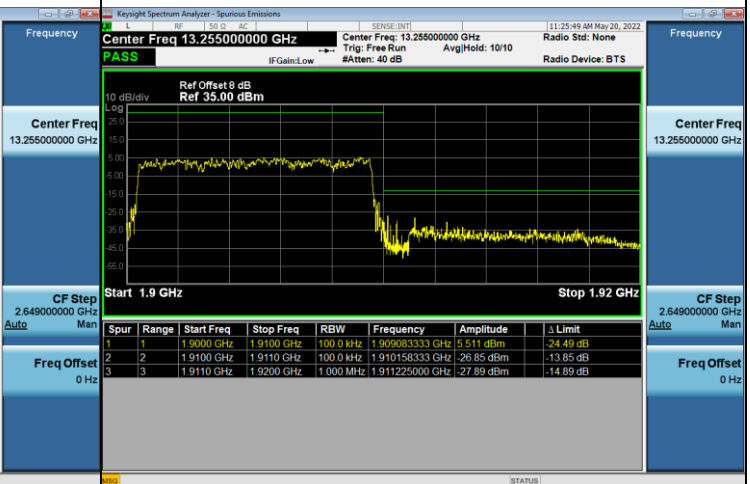
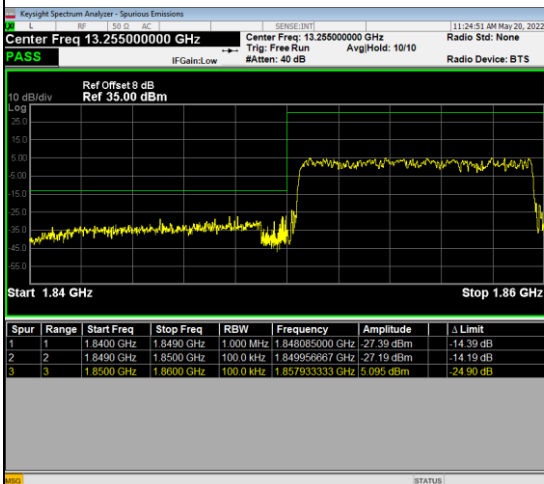
50RB#0

Channel

18650

Channel

19150



LTE Band 2_15MHz Spectrum Plot

1RB#0

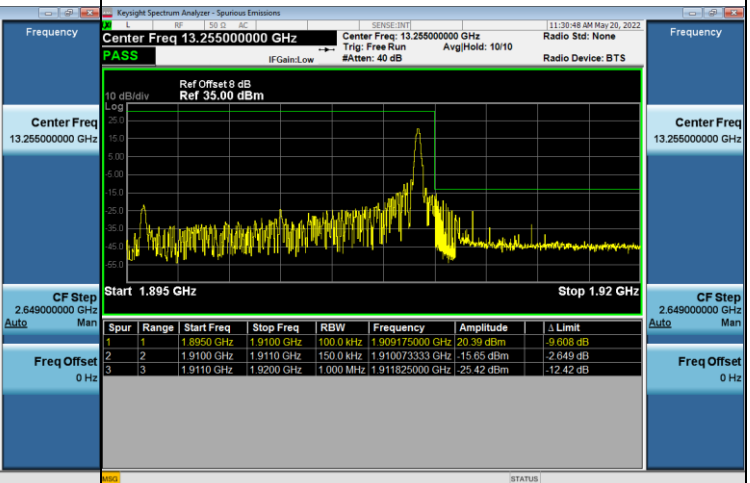
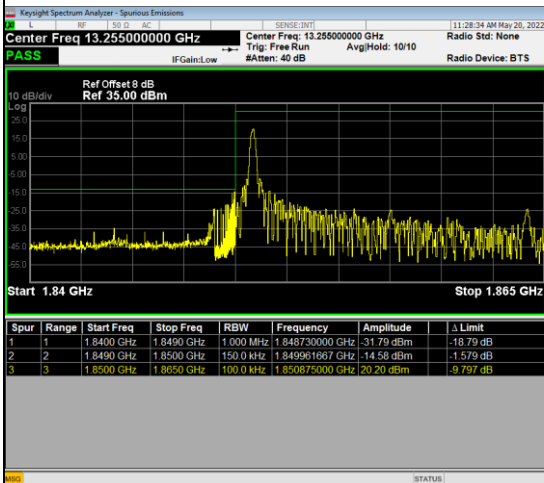
1RB#74

Channel

18675

Channel

19125



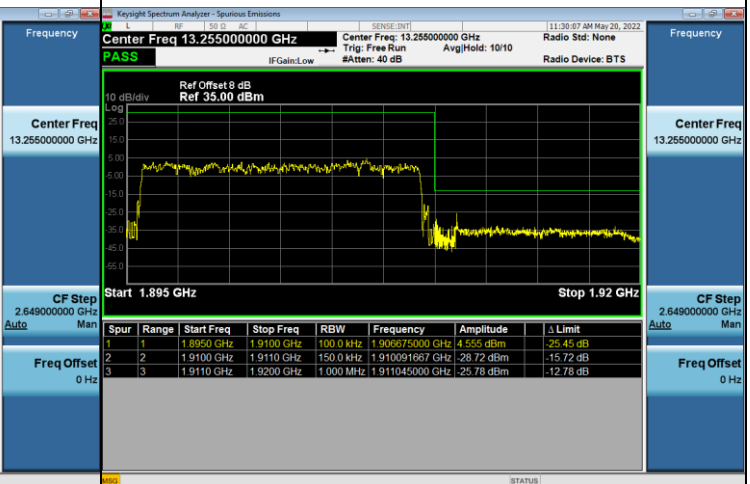
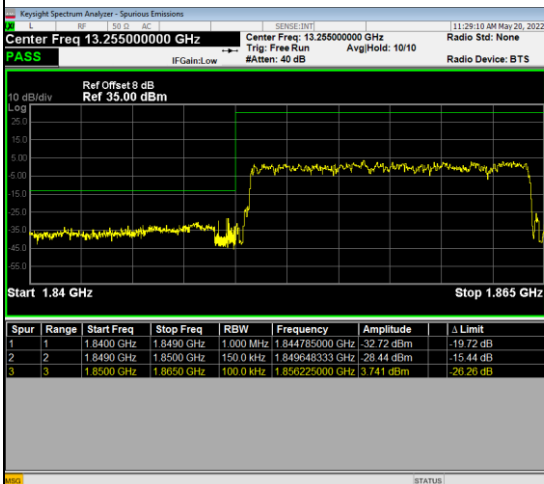
75RB#0

Channel

18675

Channel

19125



LTE Band 2_20MHz Spectrum Plot

1RB#0

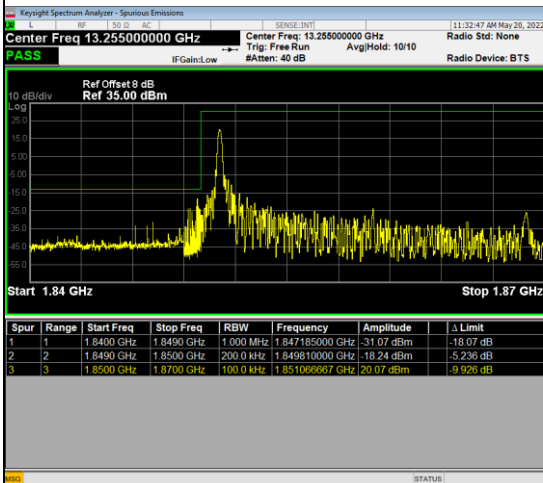
1RB#99

Channel

18700

Channel

19100



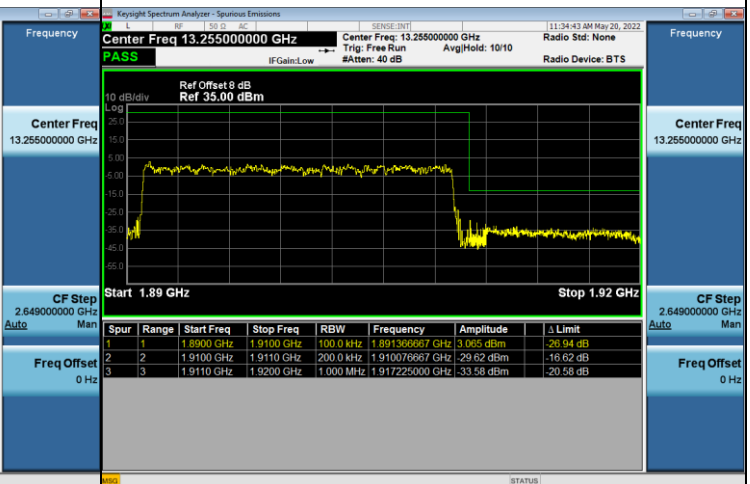
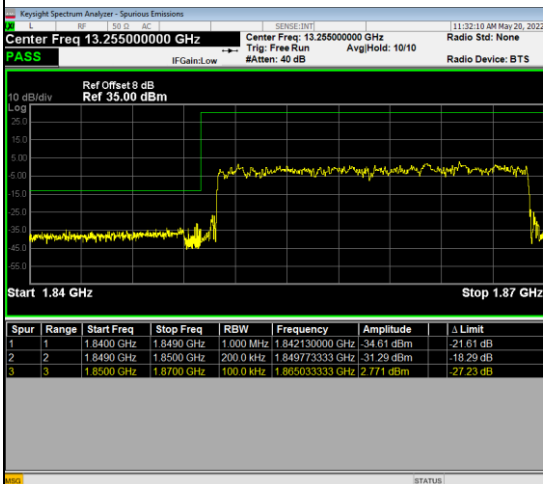
100RB#0

Channel

18700

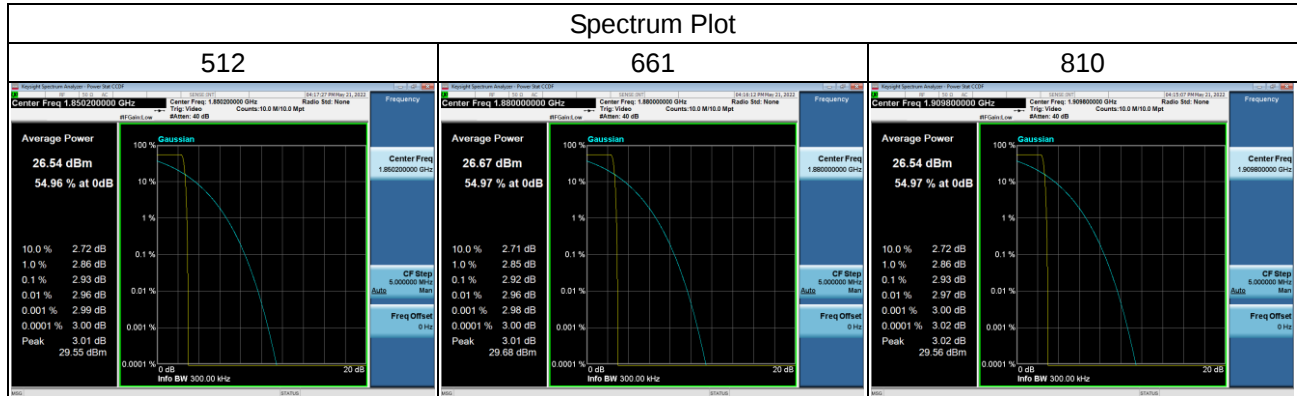
Channel

19100

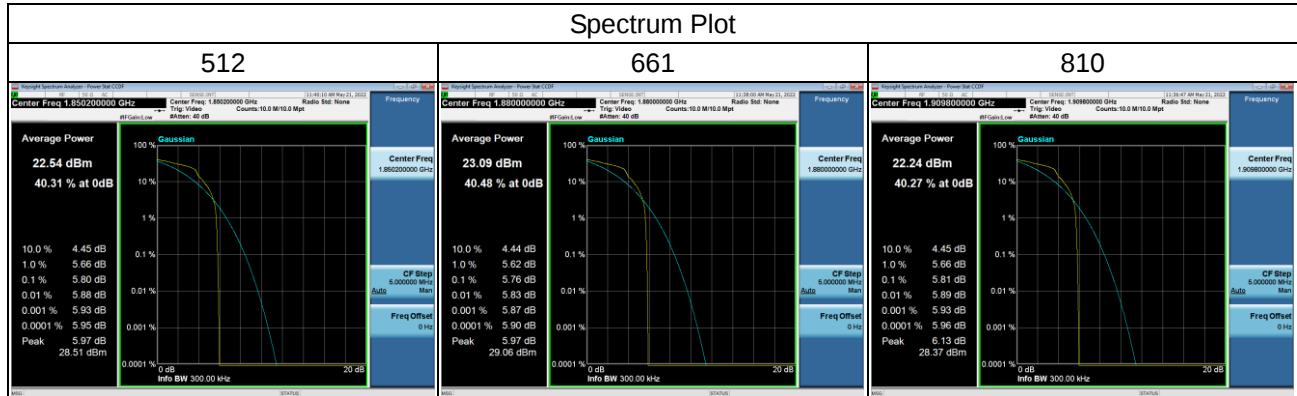


APPENDIX H - PEAK TO AVERAGE RATIO

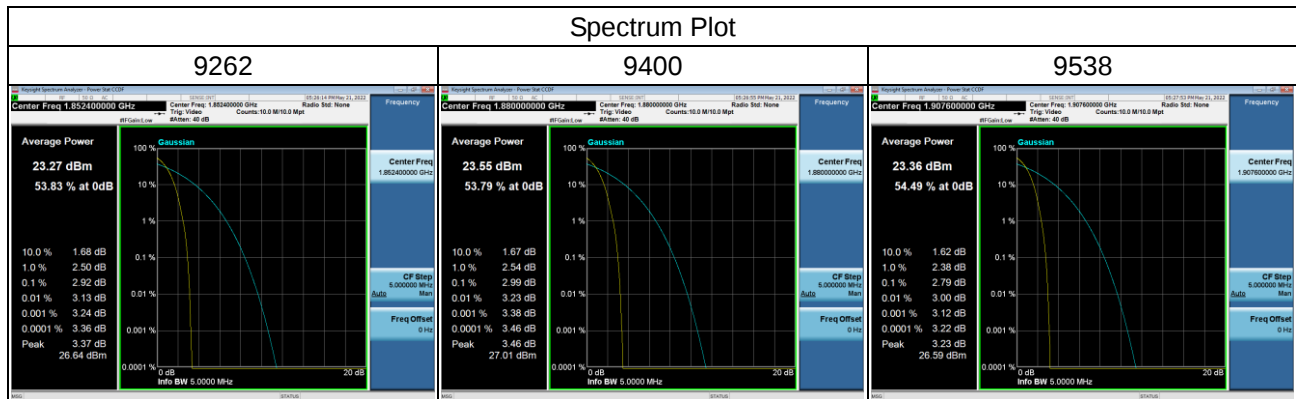
PCS1900_GSM				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
512	1850.2	2.93	13	Pass
661	1880	2.92	13	Pass
810	1909.8	2.93	13	Pass



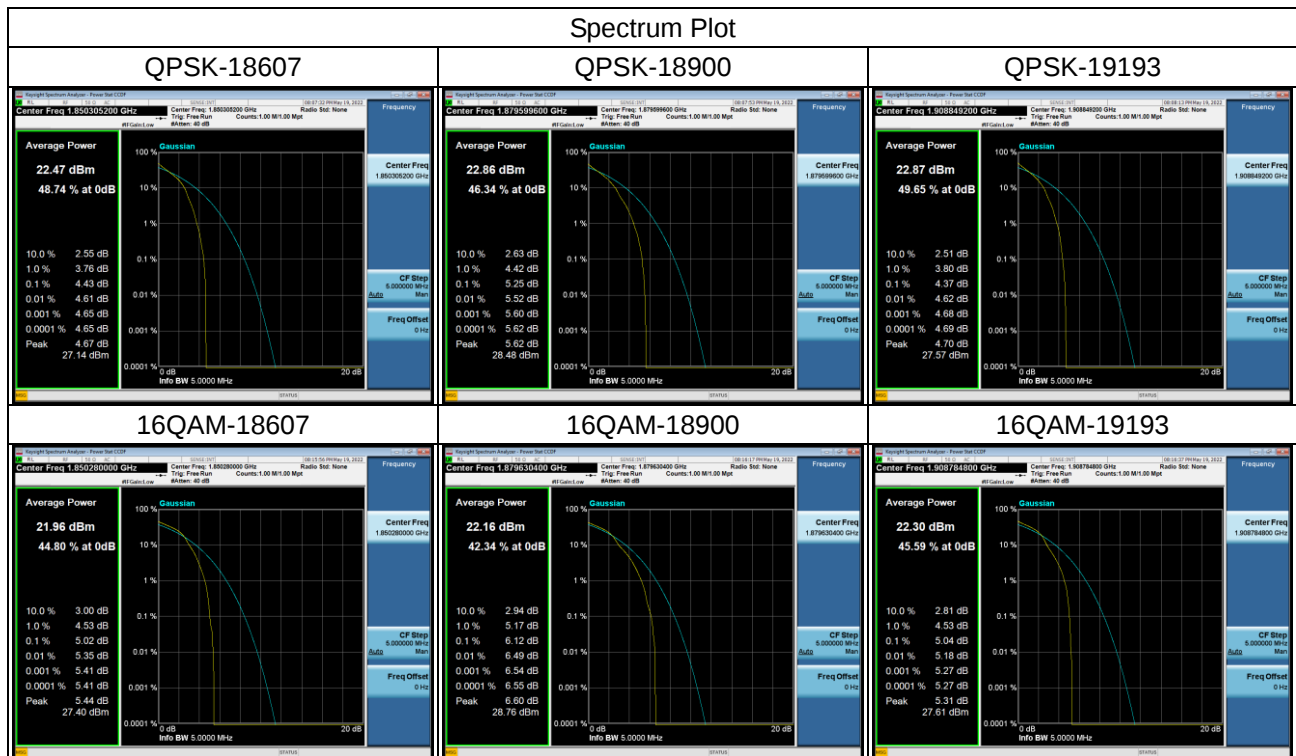
PCS1900_EDGE				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
512	1850.2	5.80	13	Pass
661	1880	5.76	13	Pass
810	1909.8	5.81	13	Pass



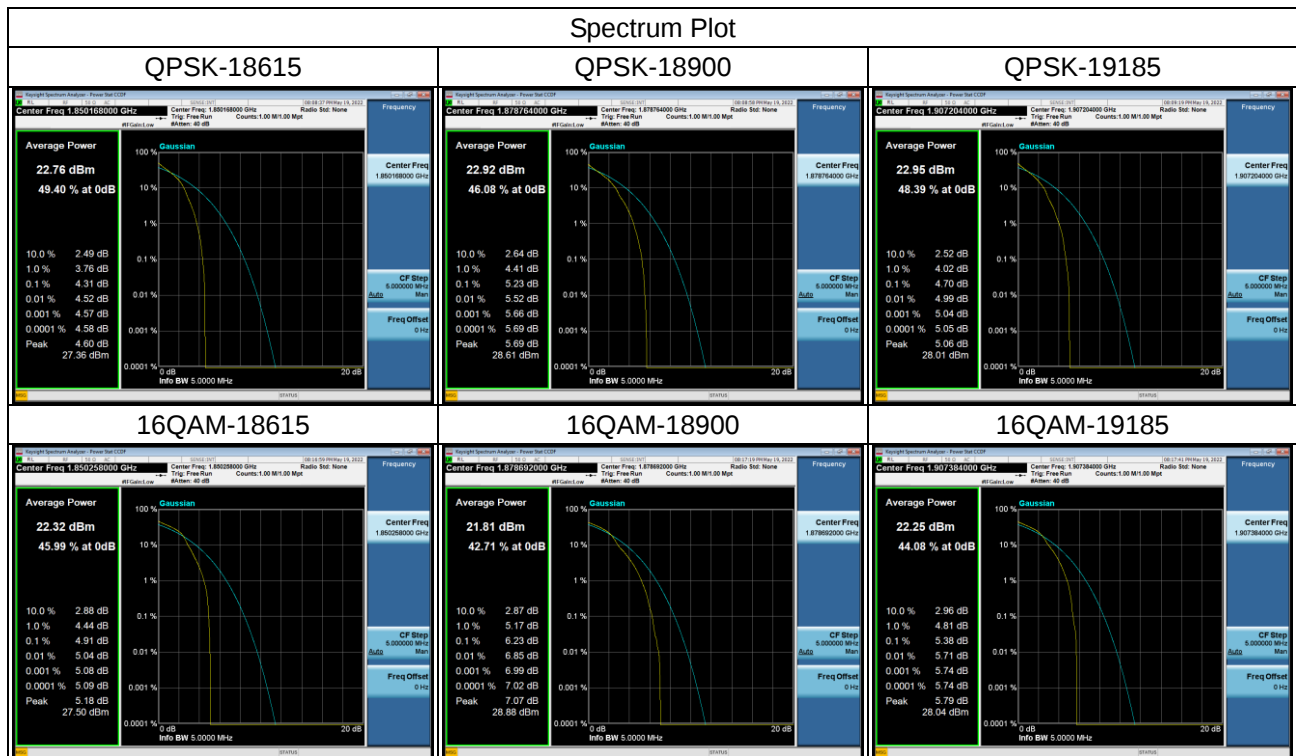
WCDMA Band II_WCDMA				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
9262	1852.4	2.92	13	Pass
9400	1880	2.99	13	Pass
9538	1907.6	2.79	13	Pass



LTE Band 2_1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18607	1850.7	4.43	5.02	13	Pass
18900	1880	5.25	6.12	13	Pass
19193	1909.3	4.37	5.04	13	Pass



LTE Band 2_3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18615	1851.5	4.31	4.91	13	Pass
18900	1880	5.23	6.23	13	Pass
19185	1908.5	4.70	5.38	13	Pass



LTE Band 2_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18625	1852.5	4.43	5.59	13	Pass
18900	1880	5.16	6.43	13	Pass
19175	1907.5	5.28	6.11	13	Pass

