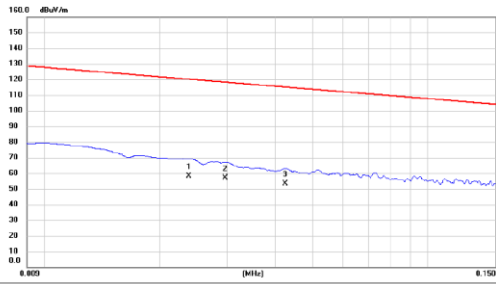


Test Mode : TX Mode

Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		0.0238	45.36	13.00	58.36	120.07	-61.71	AVG		
2	*	0.0296	44.26	12.84	57.10	118.18	-61.08	AVG		
3		0.0424	40.82	12.50	53.32	115.06	-61.74	AVG		

Test Mode : TX Mode

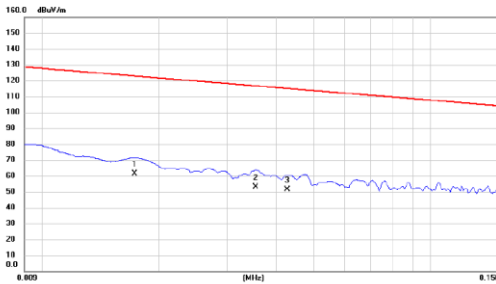
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		0.4485	30.85	11.93	42.78	94.57	-51.79	AVG		
2	*	2.0604	37.25	11.11	48.36	69.54	-21.18	QP		
3		2.7470	29.36	10.71	40.07	69.54	-29.47	QP		

Test Mode : TX Mode

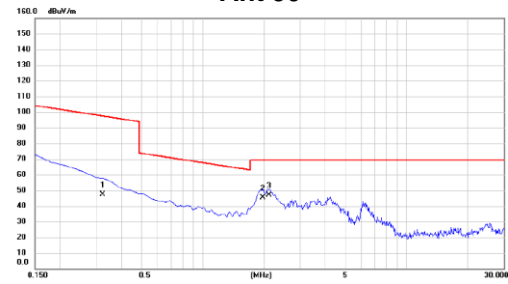
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1	*	0.0173	47.39	13.94	61.33	122.84	-61.51	AVG		
2		0.0355	40.38	12.69	53.07	116.60	-63.53	AVG		
3		0.0427	38.96	12.49	51.45	115.00	-63.55	AVG		

Test Mode : TX Mode

Ant 90°



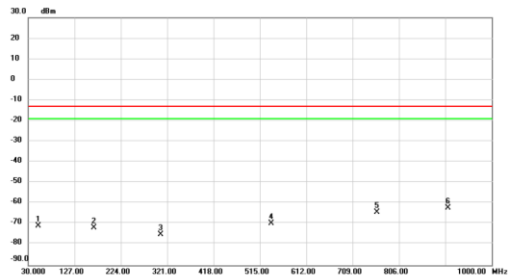
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		0.3234	35.24	12.30	47.54	97.41	-49.87	AVG		
2		1.9708	34.28	11.17	45.45	69.54	-24.09	QP		
3	*	2.1201	35.94	11.08	47.02	69.54	-22.52	QP		

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

Test Mode : PCS1900\_TX CH661\_GSM

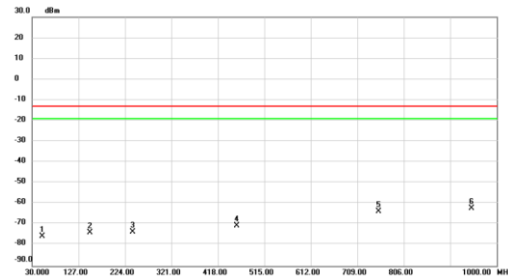
Test Mode : PCS1900\_TX CH661\_GSM

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		51.3400	-59.45	-11.57	-71.02	-13.00	-58.02	peak	
2		168.2250	-59.88	-11.99	-71.87	-13.00	-58.87	peak	
3		307.9050	-63.99	-11.10	-75.09	-13.00	-62.09	peak	
4		538.2800	-63.43	-6.23	-69.66	-13.00	-56.66	peak	
5		759.4400	-62.22	-2.03	-64.25	-13.00	-51.25	peak	
6	*	908.8200	-61.37	-0.86	-62.23	-13.00	-49.23	peak	

### Horizontal

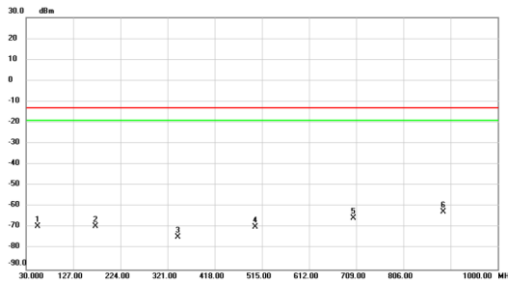


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		51.8250	-64.08	-11.59	-75.67	-13.00	-62.67	peak	
2		150.7650	-62.30	-11.69	-73.99	-13.00	-60.99	peak	
3		240.0050	-60.41	-13.34	-73.75	-13.00	-60.75	peak	
4		457.7700	-63.00	-7.50	-70.50	-13.00	-57.50	peak	
5		753.1350	-61.74	-2.08	-63.82	-13.00	-50.82	peak	
6	*	947.1350	-62.13	-0.23	-62.36	-13.00	-49.36	peak	

Test Mode : WCDMA Band II\_TX CH9800

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		54.2500	-57.68	-11.67	-69.35	-13.00	-56.35	peak	
2		173.0750	-57.01	-12.38	-69.39	-13.00	-56.39	peak	
3		341.8550	-64.22	-10.28	-74.50	-13.00	-61.50	peak	
4		501.9050	-62.82	-6.89	-69.71	-13.00	-56.71	peak	
5		703.1800	-62.62	-2.82	-65.44	-13.00	-52.44	peak	
6	*	887.9650	-61.50	-0.99	-62.49	-13.00	-49.49	peak	

### Horizontal

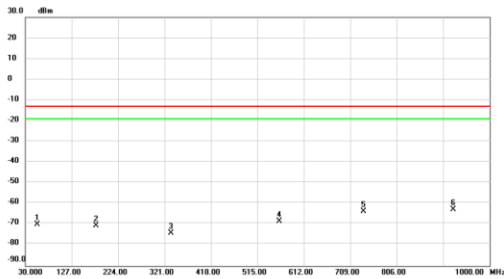


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		53.7650	-64.26	-11.65	-75.91	-13.00	-62.91	peak	
2		162.4050	-59.74	-11.75	-71.49	-13.00	-58.49	peak	
3		280.7450	-62.12	-11.80	-73.92	-13.00	-60.92	peak	
4		457.2850	-63.32	-7.51	-70.83	-13.00	-57.83	peak	
5		663.4100	-62.74	-3.62	-66.36	-13.00	-53.36	peak	
6	*	871.9600	-61.90	-0.97	-62.87	-13.00	-49.87	peak	

Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

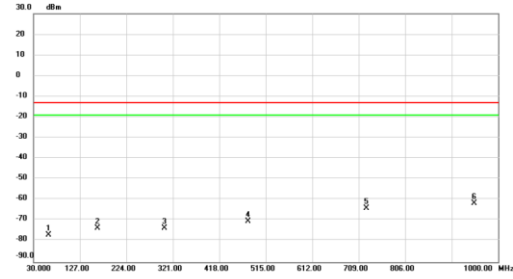
Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

### Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	54.7350	-58.45	-11.69	-70.14	-13.00	-57.14	peak	
2	177.4400	-57.72	-12.81	-70.53	-13.00	-57.53	peak	
3	334.0950	-63.81	-10.42	-74.23	-13.00	-61.23	peak	
4	561.5600	-63.05	-5.64	-68.69	-13.00	-55.69	peak	
5	736.6450	-61.40	-2.32	-63.72	-13.00	-50.72	peak	
6 *	924.3400	-62.10	-0.60	-62.70	-13.00	-49.70	peak	

### Horizontal

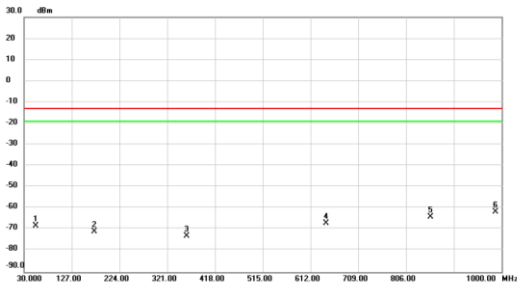


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	61.5250	-64.45	-12.38	-76.83	-13.00	-63.83	peak	
2	163.3750	-61.86	-11.79	-73.65	-13.00	-60.65	peak	
3	304.0250	-62.56	-11.21	-73.77	-13.00	-60.77	peak	
4	478.6250	-63.01	-7.22	-70.23	-13.00	-57.23	peak	
5	725.4900	-61.47	-2.49	-63.96	-13.00	-50.96	peak	
6 *	950.5300	-61.35	-0.19	-61.54	-13.00	-48.54	peak	

Test Mode : LTE Band 2\_TX CH18900\_5MHz

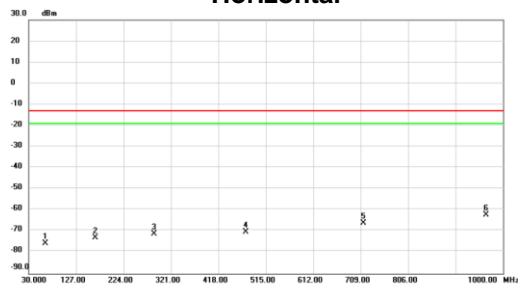
Test Mode : LTE Band 2\_TX CH18900\_5MHz

### Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	53.2800	-56.59	-11.64	-68.23	-13.00	-55.23	peak	
2	172.5900	-58.71	-12.33	-71.04	-13.00	-58.04	peak	
3	359.8000	-63.01	-10.11	-73.12	-13.00	-60.12	peak	
4	643.5250	-62.99	-3.96	-66.95	-13.00	-53.95	peak	
5	855.4700	-63.14	-0.95	-64.09	-13.00	-51.09	peak	
6 *	987.8750	-61.67	0.14	-61.53	-13.00	-48.53	peak	

### Horizontal

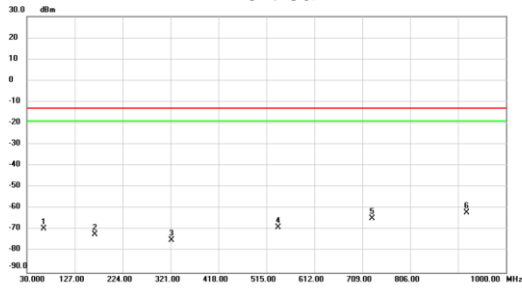


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1	63.9500	-63.04	-12.70	-75.74	-13.00	-62.74	peak	
2	165.8000	-61.27	-11.89	-73.16	-13.00	-60.16	peak	
3	286.5650	-59.59	-11.67	-71.26	-13.00	-58.26	peak	
4	473.7750	-63.12	-7.28	-70.40	-13.00	-57.40	peak	
5	714.3350	-63.35	-2.66	-66.01	-13.00	-53.01	peak	
6 *	965.5650	-62.24	-0.06	-62.30	-13.00	-49.30	peak	

Test Mode : LTE Band 2\_TX CH18900\_20MHz

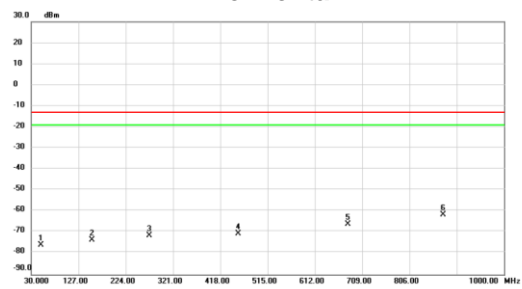
Test Mode : LTE Band 2\_TX CH18900\_20MHz

### Vertical



No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		63.9500	-56.71	-12.70	-69.41	-13.00	-56.41	peak	
2		168.2250	-60.23	-11.99	-72.22	-13.00	-59.22	peak	
3		322.9400	-64.08	-10.66	-74.74	-13.00	-61.74	peak	
4		538.7650	-62.70	-6.23	-68.93	-13.00	-55.93	peak	
5		728.8850	-62.32	-2.43	-64.75	-13.00	-51.75	peak	
6	*	920.4600	-61.22	-0.67	-61.89	-13.00	-48.89	peak	

### Horizontal



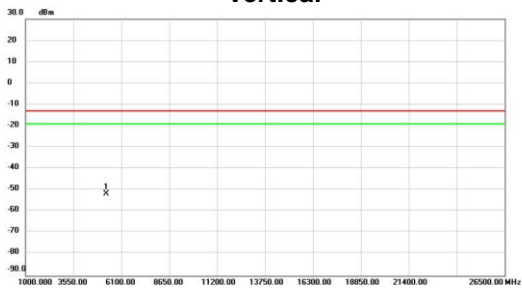
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1		50.3700	-64.47	-11.53	-76.00	-13.00	-63.00	peak	
2		154.6450	-61.98	-11.67	-73.65	-13.00	-60.65	peak	
3		272.0150	-59.52	-12.17	-71.69	-13.00	-58.69	peak	
4		454.3750	-62.99	-7.54	-70.53	-13.00	-57.53	peak	
5		680.3850	-62.91	-3.27	-66.18	-13.00	-53.18	peak	
6	*	875.3550	-60.57	-0.97	-61.54	-13.00	-48.54	peak	

## **APPENDIX F - RADIATED SPURIOUS EMISSIONS (ABOVE 1000MHZ)**

Test Mode : PCS1900\_TX CH661\_GSM

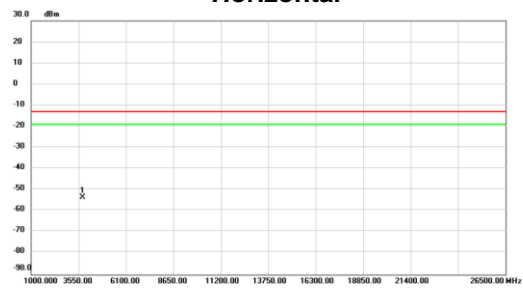
Test Mode : PCS1900\_TX CH661\_GSM

**Vertical**



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	5309.500	-54.62	2.79	-51.83	-13.00	-38.83	peak	

**Horizontal**

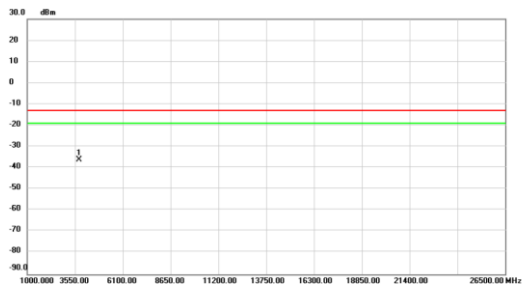


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-52.58	-0.93	-53.51	-13.00	-40.51	peak	

Test Mode : WCDMA Band II\_TX CH9800

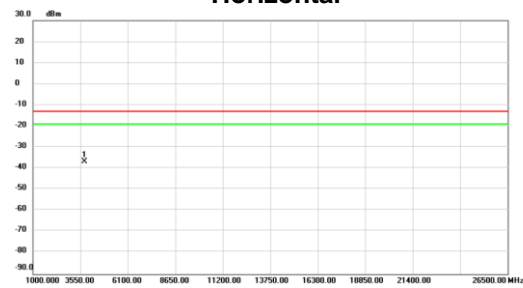
Test Mode : WCDMA Band II\_TX CH9800

**Vertical**



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-35.19	-0.93	-36.12	-13.00	-23.12	peak	

**Horizontal**

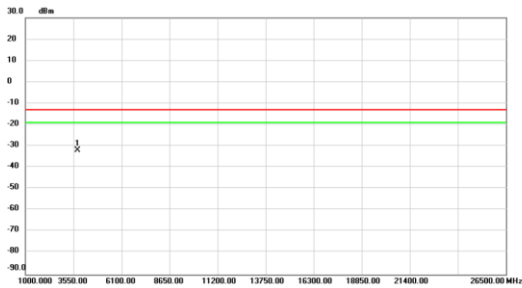


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-35.67	-0.93	-36.60	-13.00	-23.60	peak	

Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

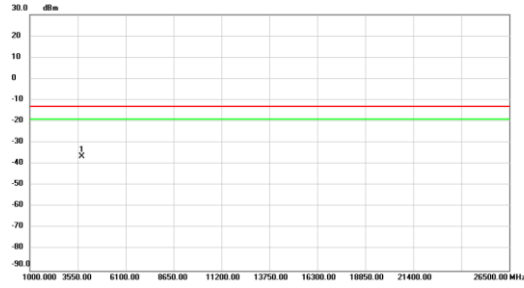
Test Mode : LTE Band 2\_TX CH18900\_1.4MHz

**Vertical**



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-30.89	-0.93	-31.82	-13.00	-18.82	peak	

**Horizontal**

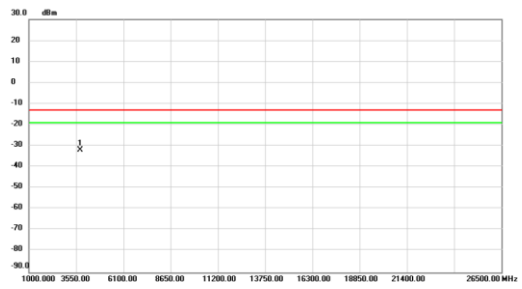


No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-35.59	-0.93	-36.52	-13.00	-23.52	peak	

Test Mode : LTE Band 2\_TX CH18900\_5MHz

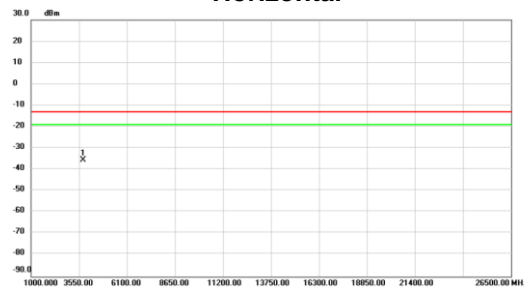
Test Mode : LTE Band 2\_TX CH18900\_5MHz

**Vertical**



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-30.97	-0.93	-31.90	-13.00	-18.90	peak	

**Horizontal**



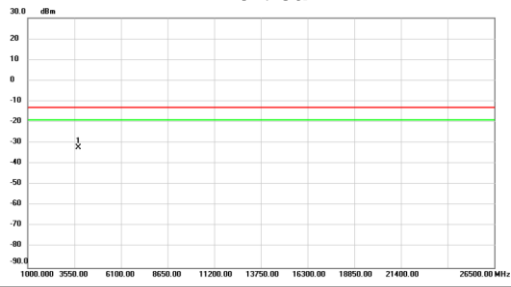
No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3766.750	-34.62	-0.88	-35.50	-13.00	-22.50	peak	



Test Mode : LTE Band 2\_TX CH18900\_20MHz

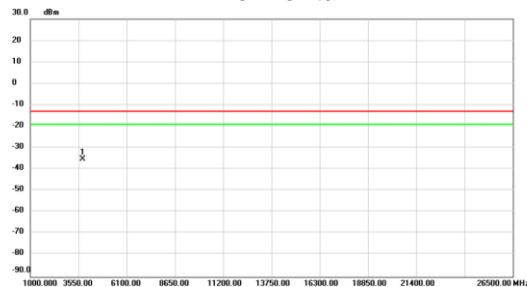
Test Mode : LTE Band 2\_TX CH18900\_20MHz

### Vertical



No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-31.18	-0.93	-32.11	-13.00	-19.11	peak	

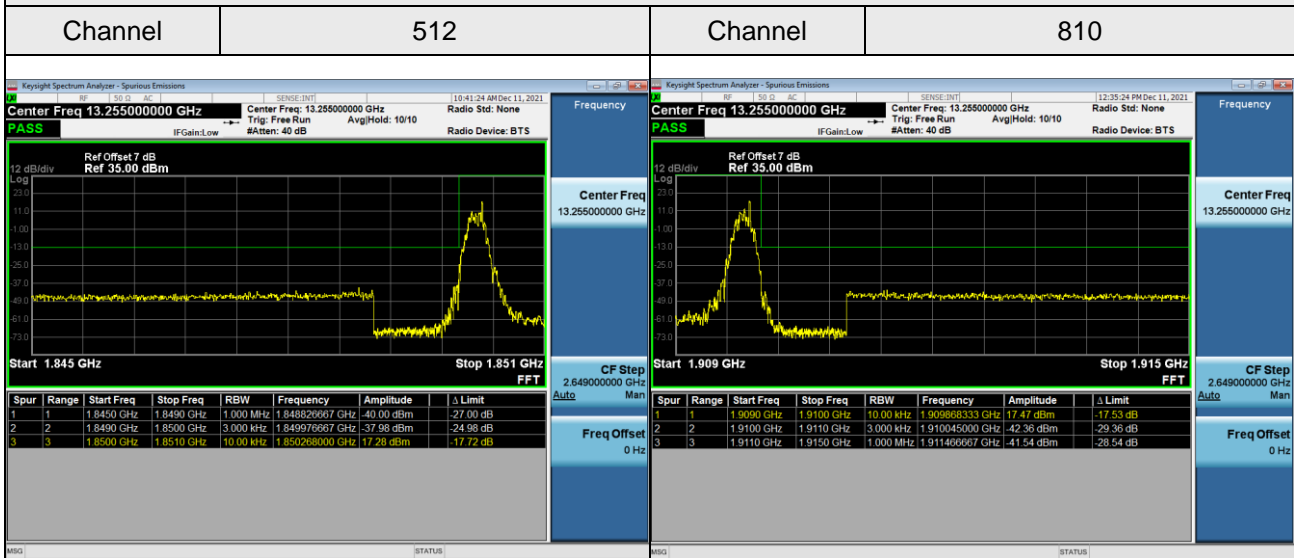
### Horizontal



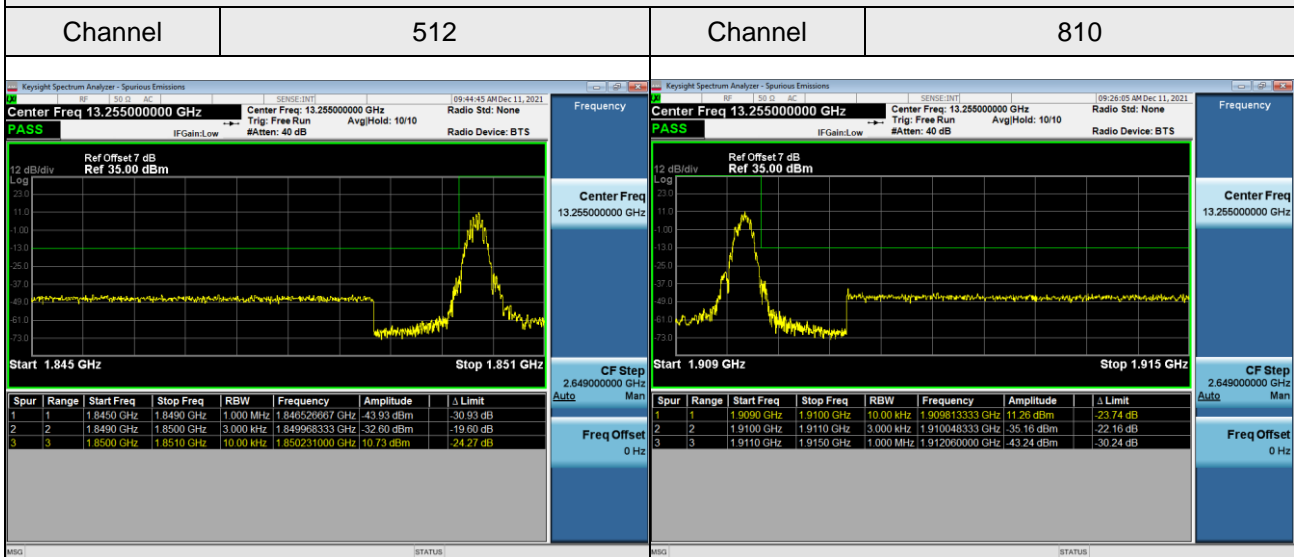
No. Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measurement dBm	Limit dBm	Margin dB	Detector	Comment
1 *	3754.000	-34.45	-0.93	-35.38	-13.00	-22.38	peak	

## APPENDIX G - BAND EDGE

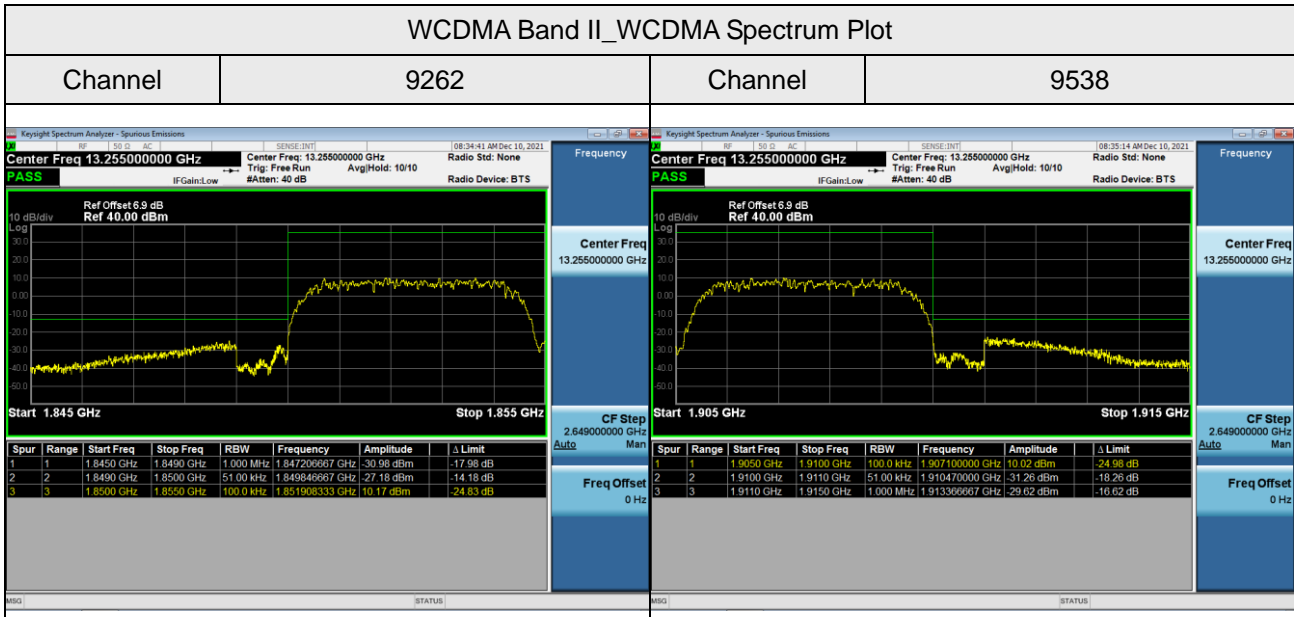
## PCS1900\_GSM Spectrum Plot



## EDGE



## WCDMA Band II\_WCDMA Spectrum Plot



## LTE Band 2\_1.4MHz Spectrum Plot

1RB#0

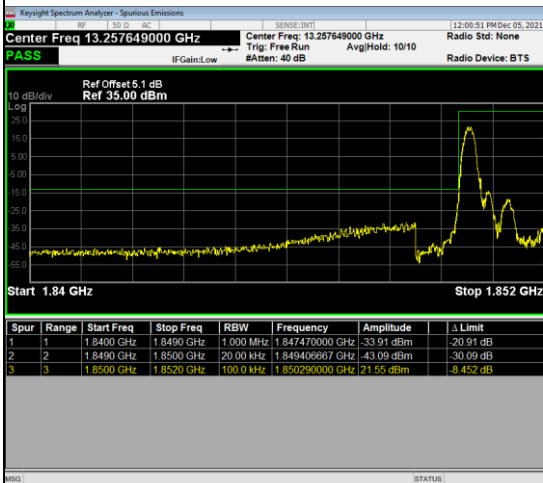
1RB#5

Channel

18607

Channel

19193



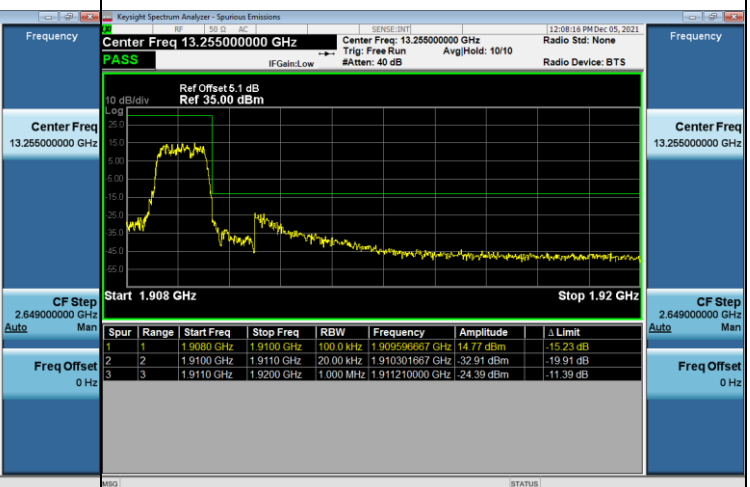
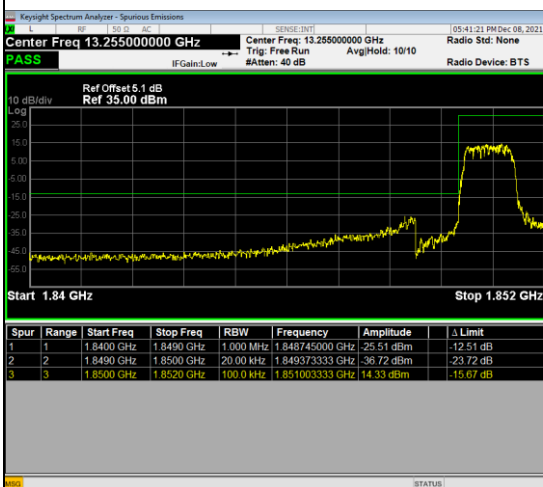
## 6RB#0

Channel

18607

Channel

19193



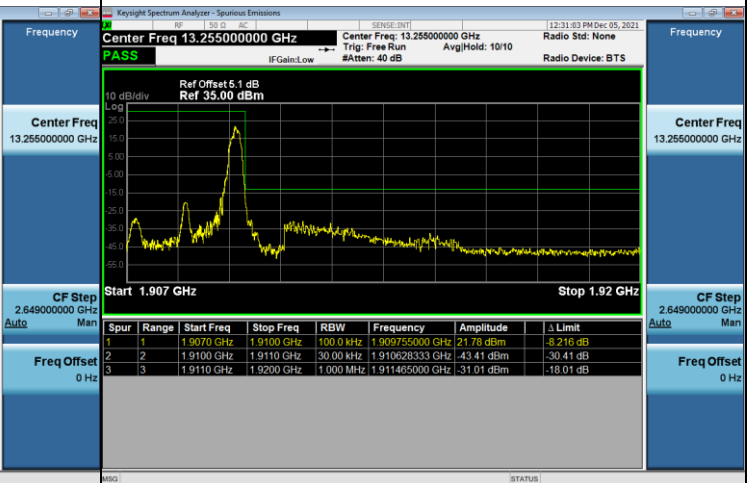
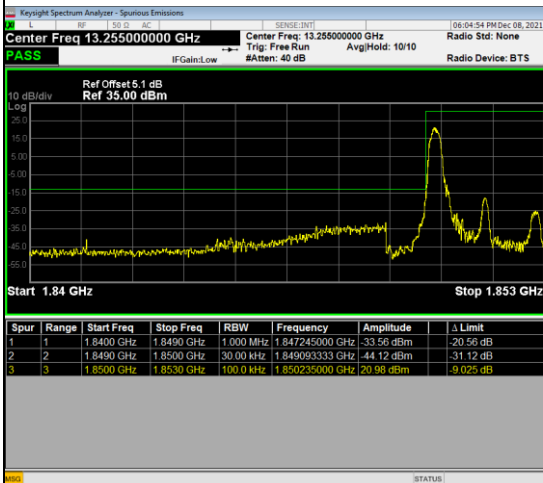
## LTE Band 2\_3MHz Spectrum Plot

1RB#0

1RB#14

Channel 18615

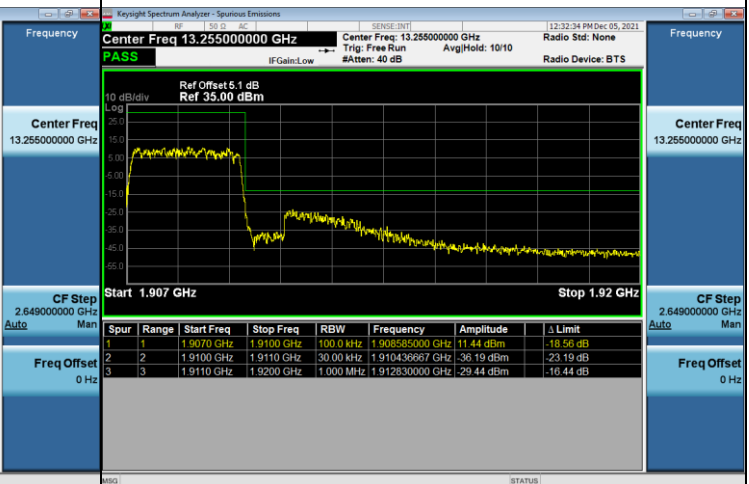
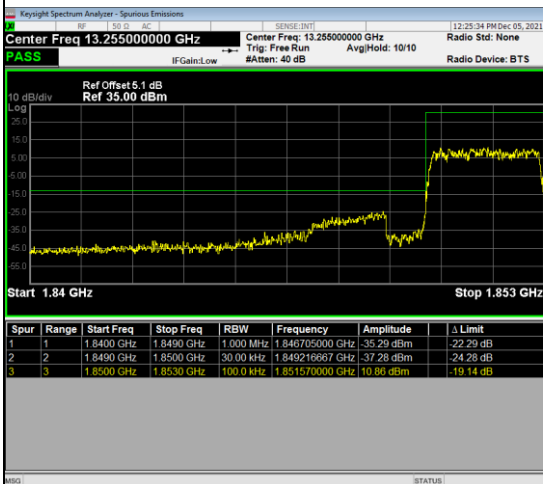
Channel 19185



## 15RB#0

Channel 18615

Channel 19185



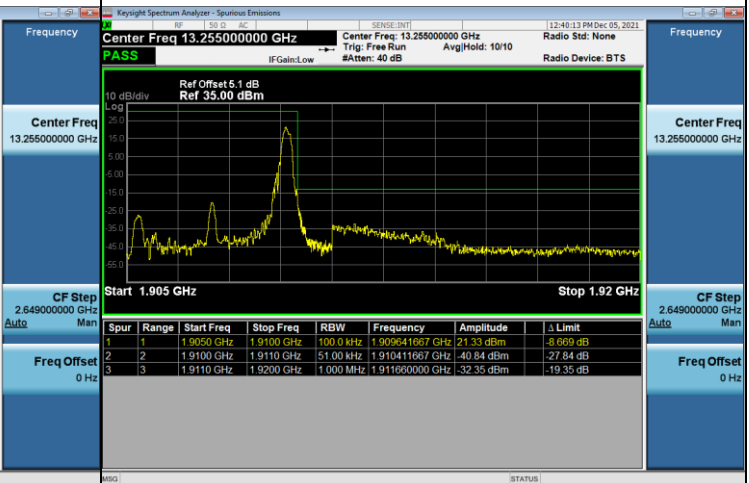
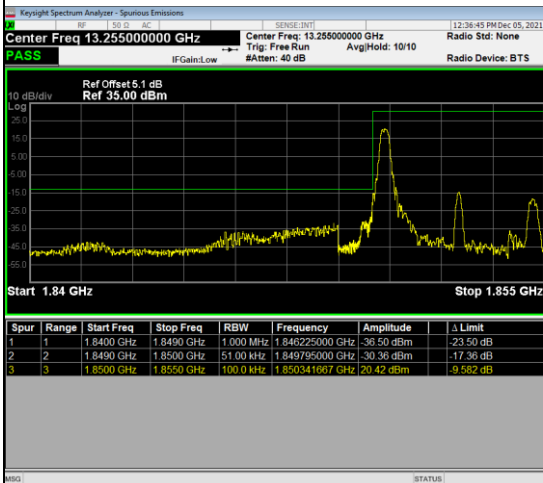
## LTE Band 2\_5MHz Spectrum Plot

1RB#0

1RB#24

Channel 18625

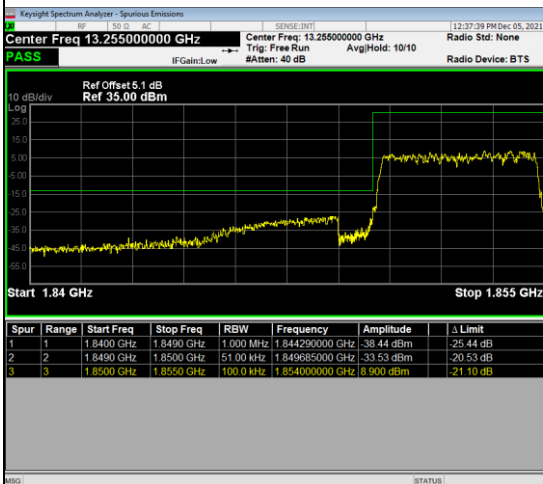
Channel 19175



## 25RB#0

Channel 18625

Channel 19175



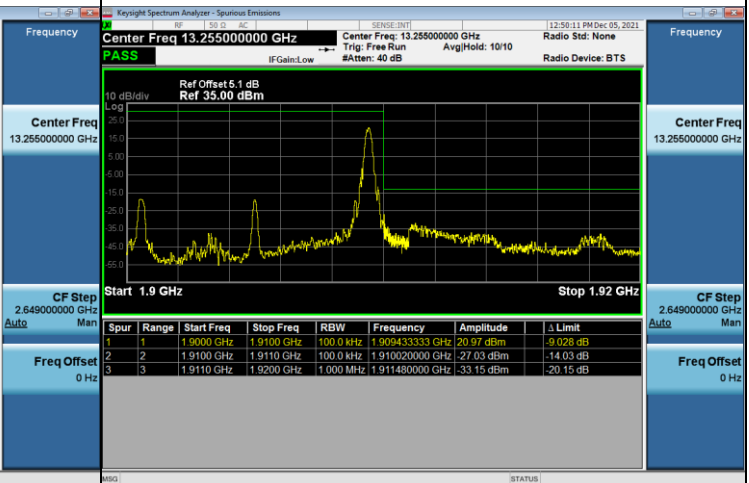
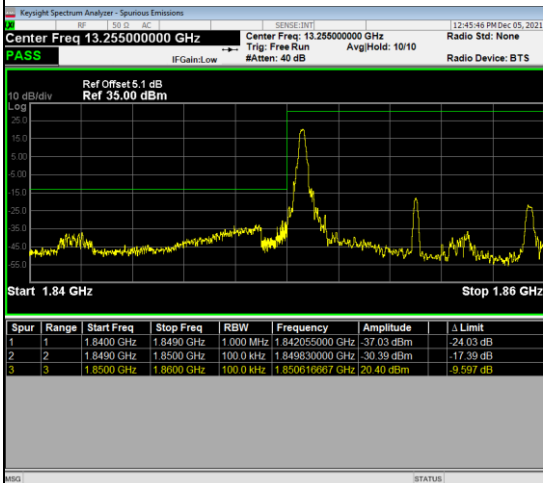
### LTE Band 2\_10MHz Spectrum Plot

1RB#0

1RB#49

Channel 18650

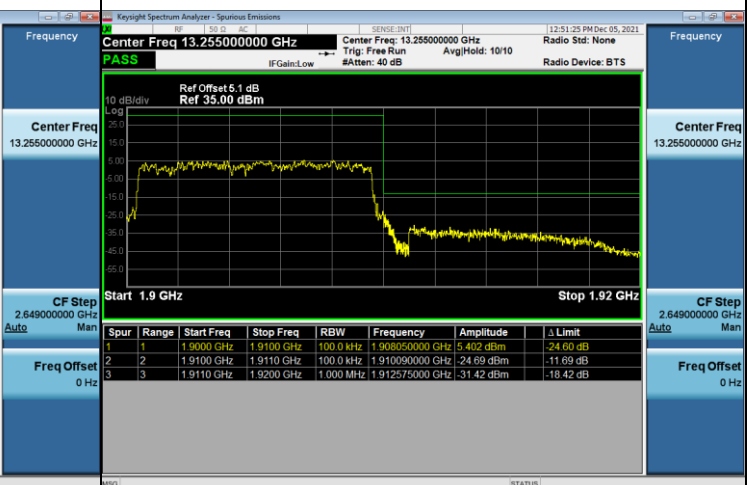
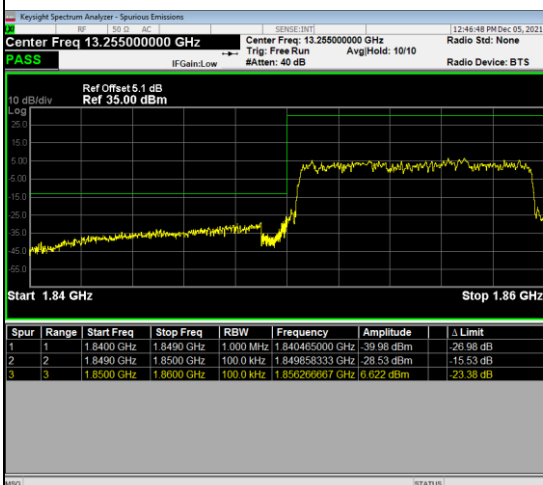
Channel 19150



### 50RB#0

Channel 18650

Channel 19150





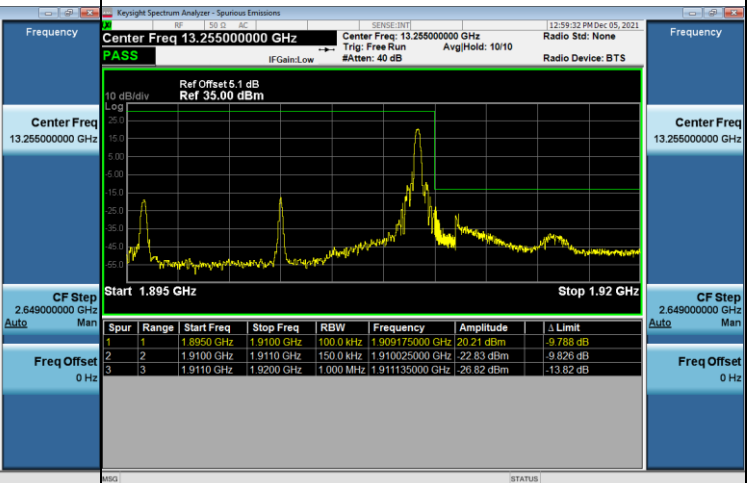
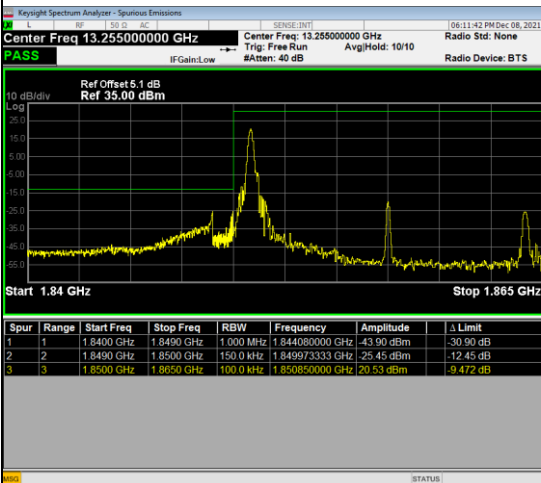
## LTE Band 2\_15MHz Spectrum Plot

1RB#0

1RB#74

Channel 18675

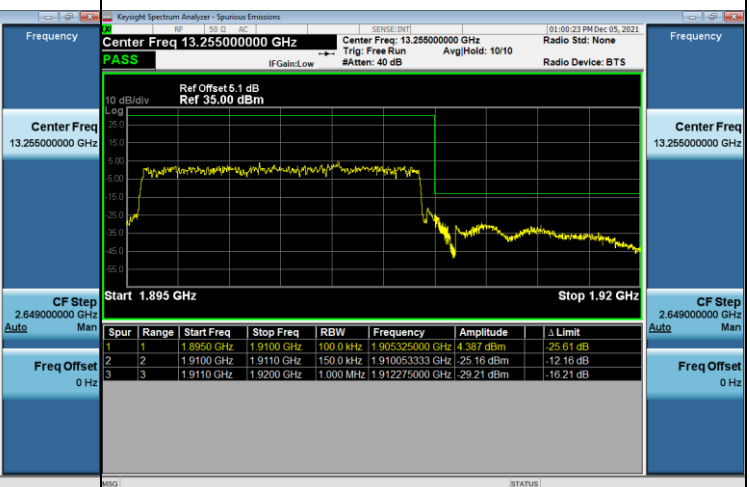
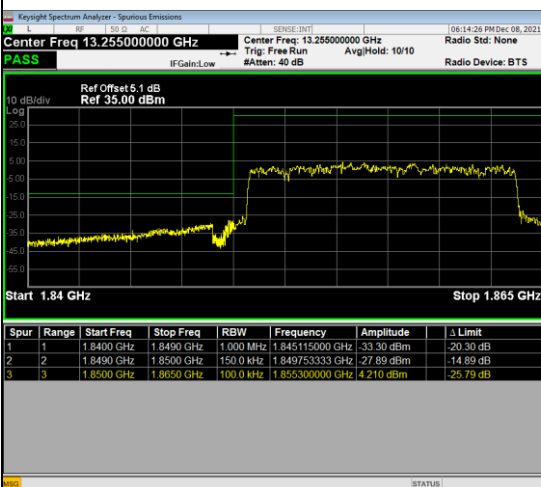
Channel 19125



## 75RB#0

Channel 18675

Channel 19125



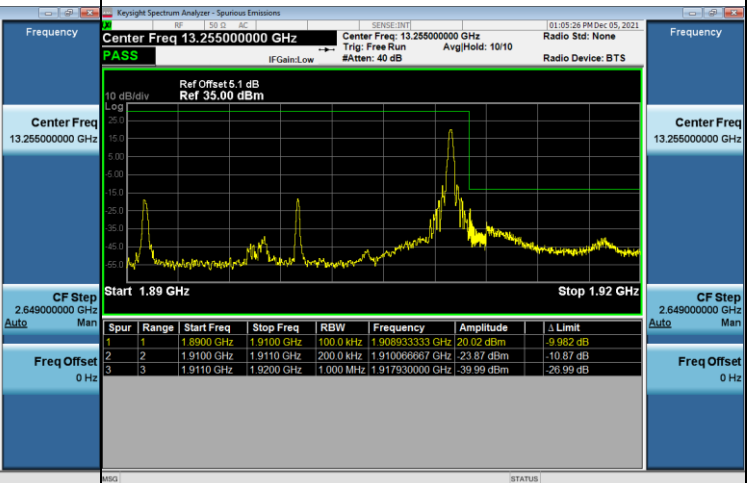
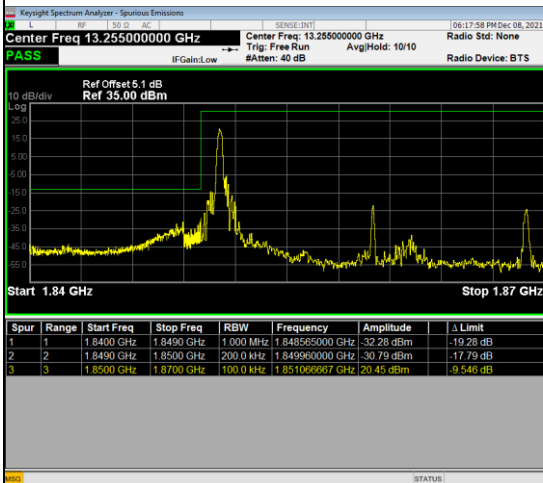
## LTE Band 2\_20MHz Spectrum Plot

1RB#0

1RB#99

Channel 18700

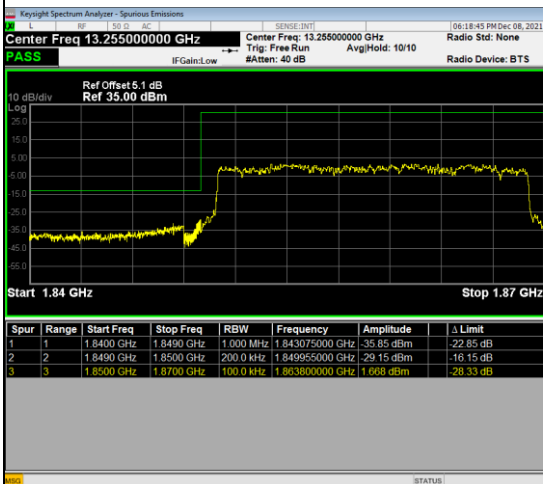
Channel 19100



## 100RB#0

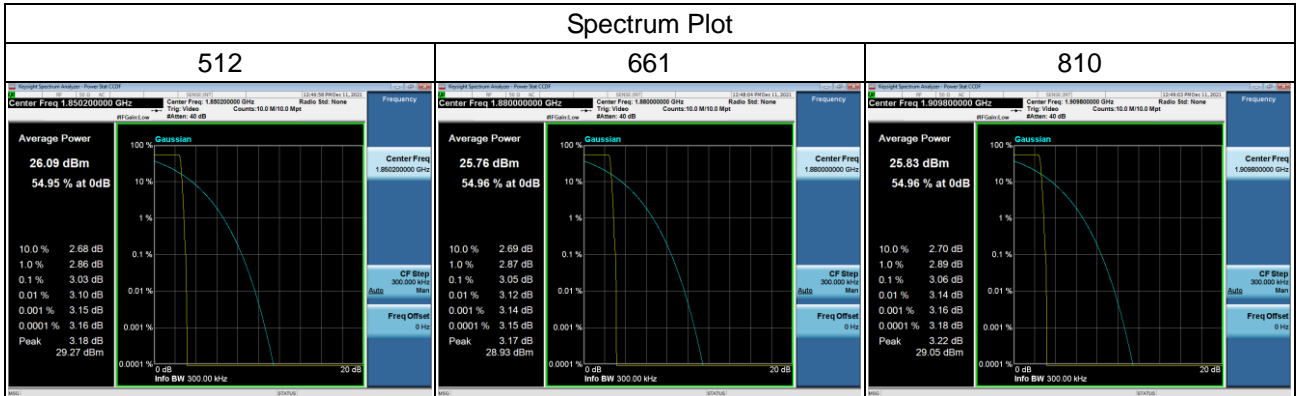
Channel 18700

Channel 19100

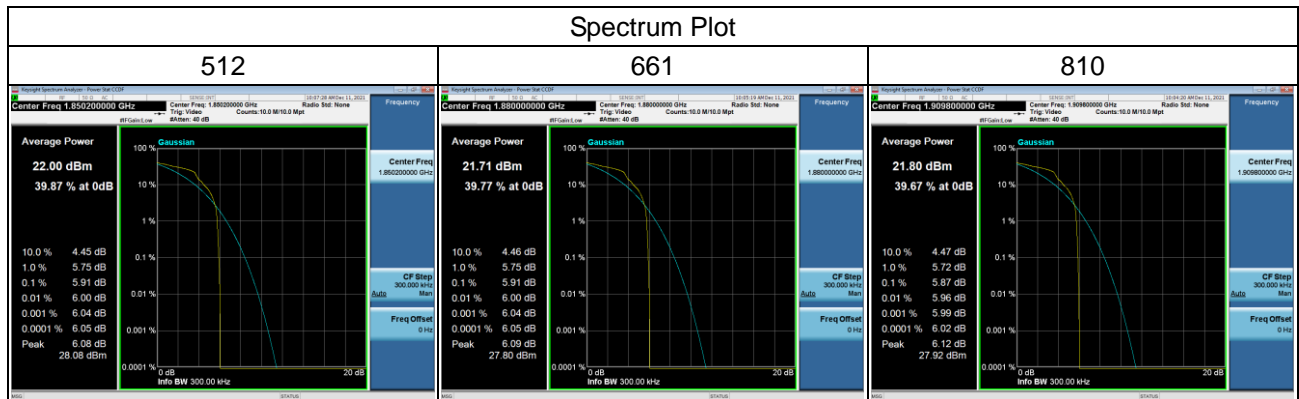


## APPENDIX H - PEAK TO AVERAGE RATIO

PCS1900_GSM					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK			
512	1850.2	3.03		13	Pass
661	1880	3.05		13	Pass
810	1909.8	3.06		13	Pass

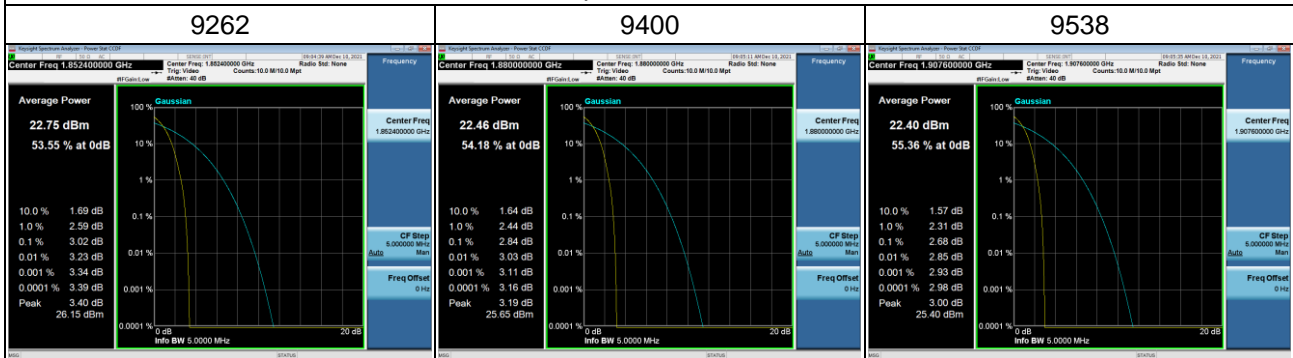


PCS1900_EDGE					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK			
512	1850.2	5.91		13	Pass
661	1880	5.91		13	Pass
810	1909.8	5.87		13	Pass

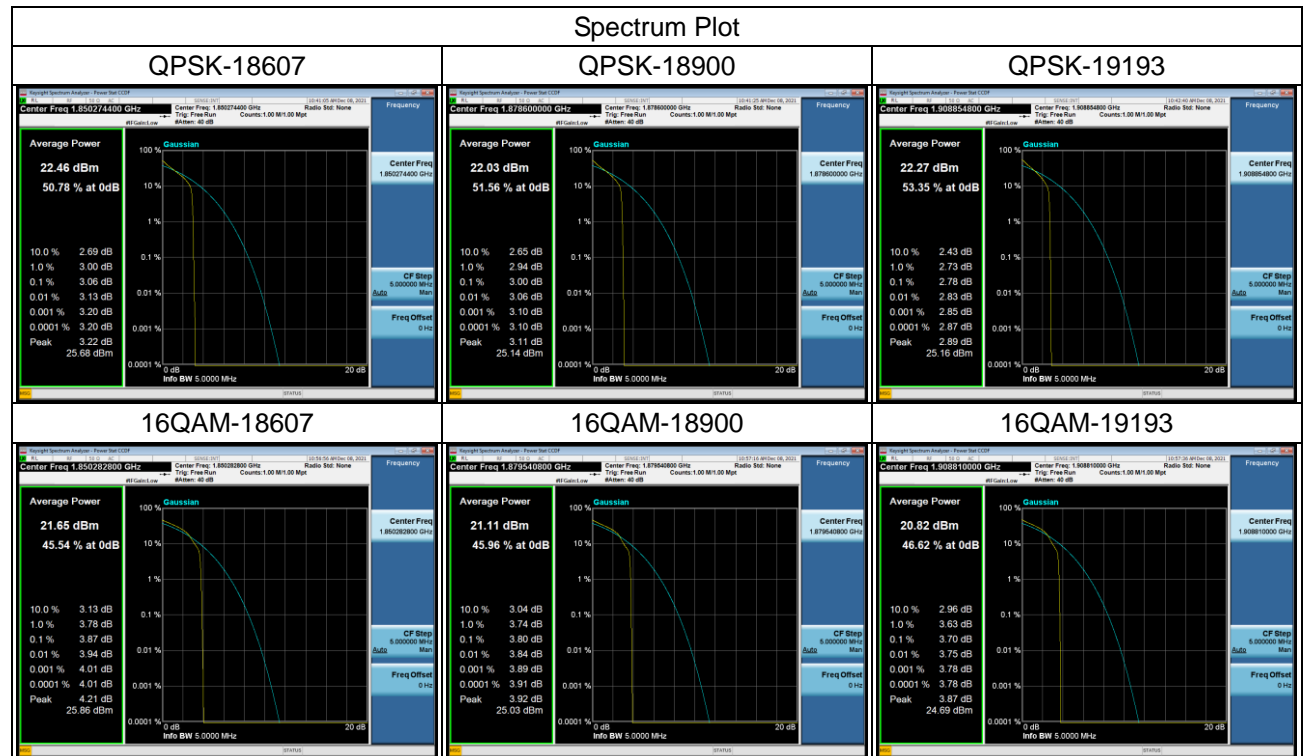


WCDMA Band II_WCDMA				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)	Max. Limit (dB)	Result
		QPSK		
9262	1852.4	3.02	13	Pass
9400	1880	2.84	13	Pass
9538	1907.6	2.68	13	Pass

Spectrum Plot



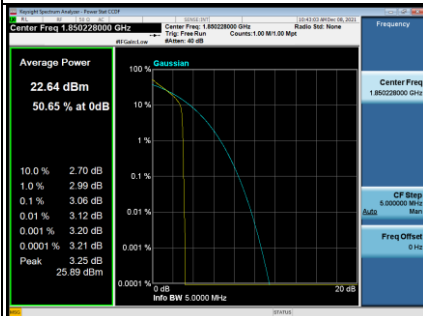
LTE Band 2_1.4MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18607	1850.7	3.06	3.87	13	Pass
18900	1880	3.00	3.80	13	Pass
19193	1909.3	2.78	3.70	13	Pass



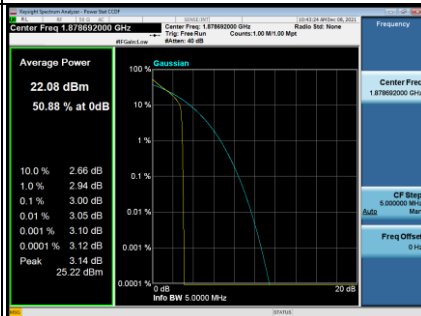
LTE Band 2_3MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18615	1851.5	3.06	3.87	13	Pass
18900	1880	3.00	3.86	13	Pass
19185	1908.5	2.83	3.67	13	Pass

## Spectrum Plot

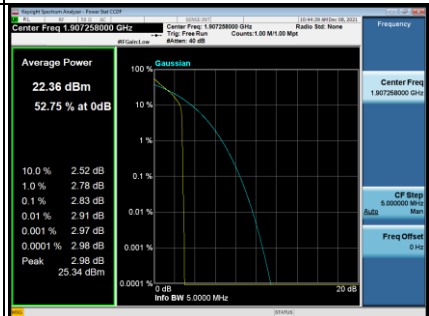
QPSK-18615



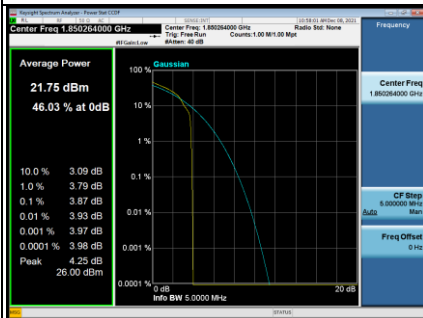
QPSK-18900



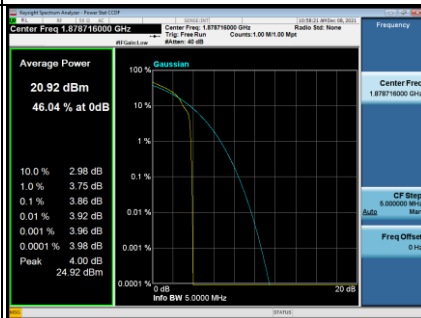
QPSK-19185



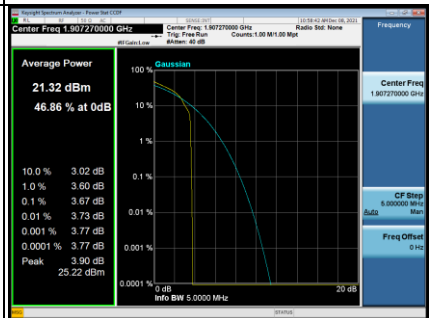
16QAM-18615



16QAM-18900

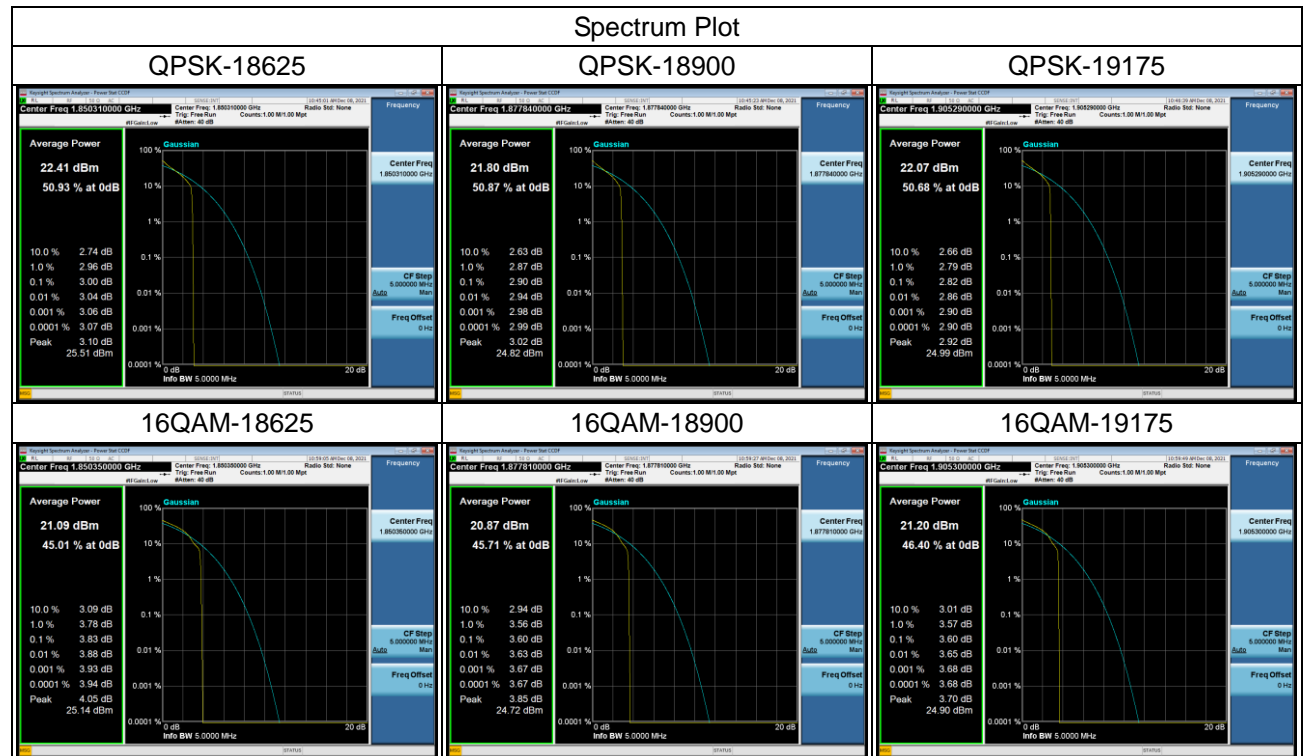


16QAM-19185





LTE Band 2_5MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18625	1852.5	3.00	3.83	13	Pass
18900	1880	2.90	3.60	13	Pass
19175	1907.5	2.82	3.60	13	Pass



LTE Band 2_10MHz					
Channel	Frequency (MHz)	Peak To Average Ratio (dB)		Max. Limit (dB)	Result
		QPSK	16QAM		
18650	1855	2.97	3.69	13	Pass
18900	1880	2.91	3.77	13	Pass
19150	1905	2.85	3.67	13	Pass

