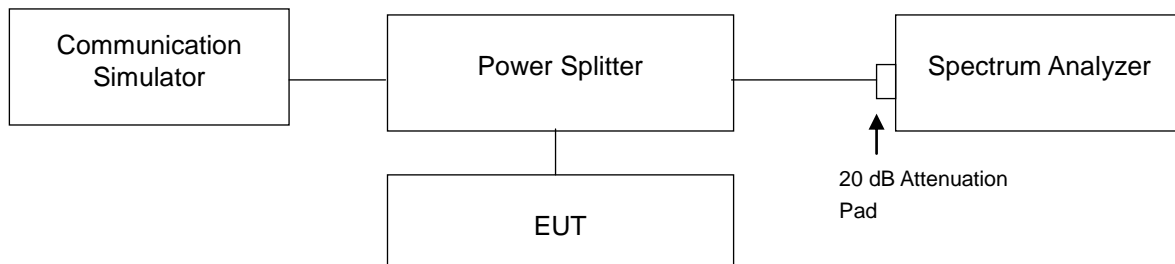


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

4.6.2 Test Setup



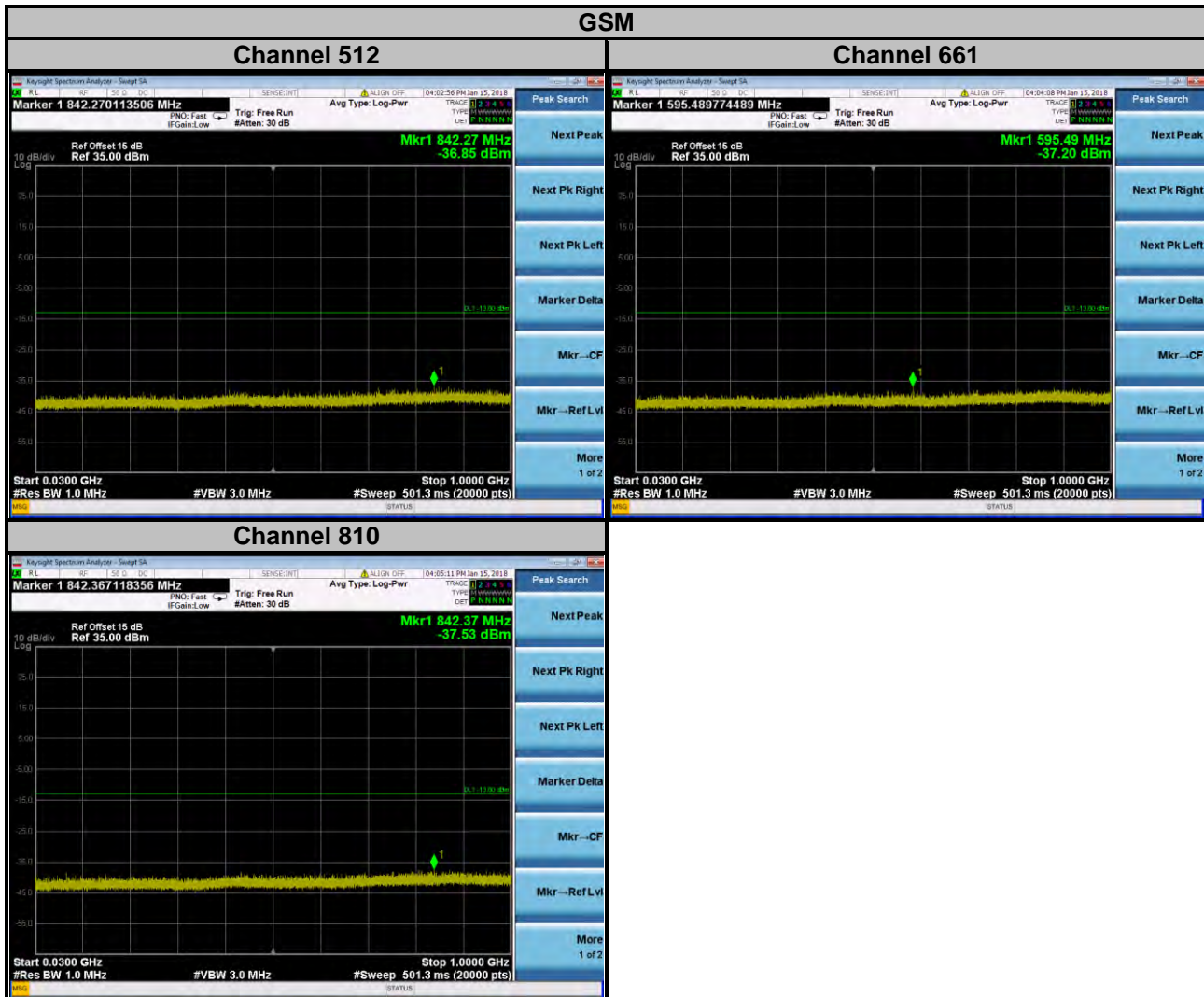
4.6.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 9 GHz. 20 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.

4.6.4 Test Results

GSM

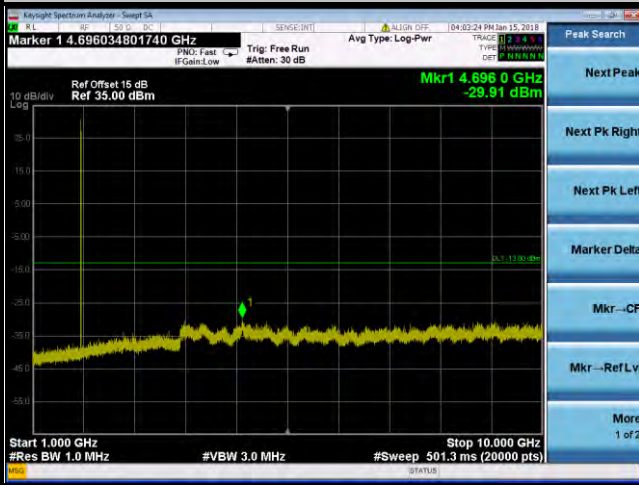
30MHz ~ 1GHz



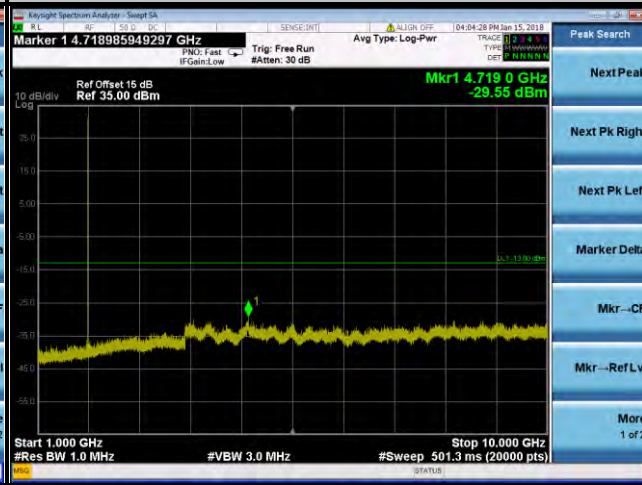
1GHz ~ 10GHz

GSM

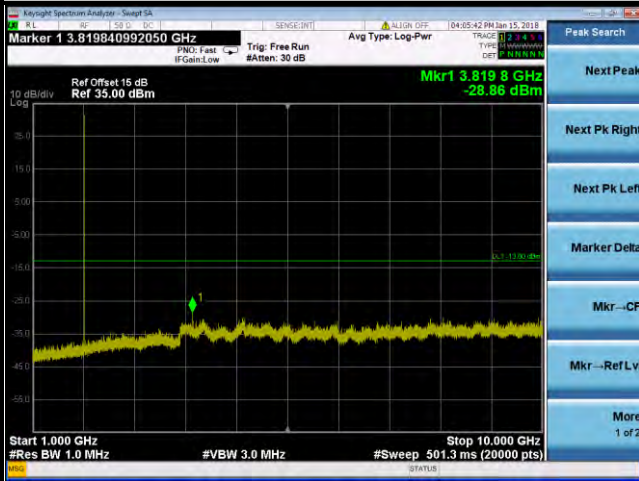
Channel 512



Channel 661



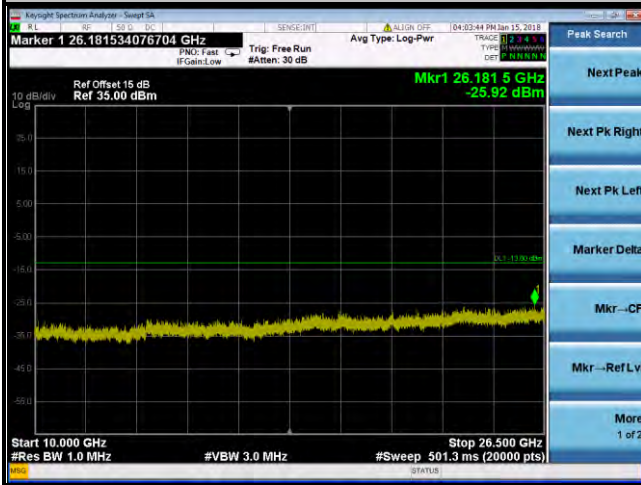
Channel 810



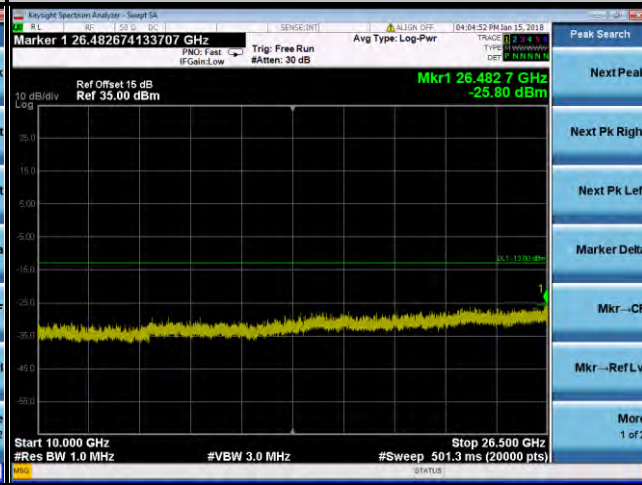
10GHz ~ 26.5GHz

GSM

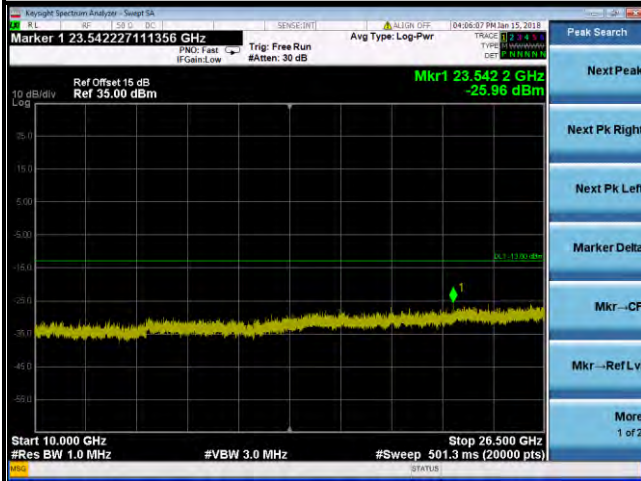
Channel 512



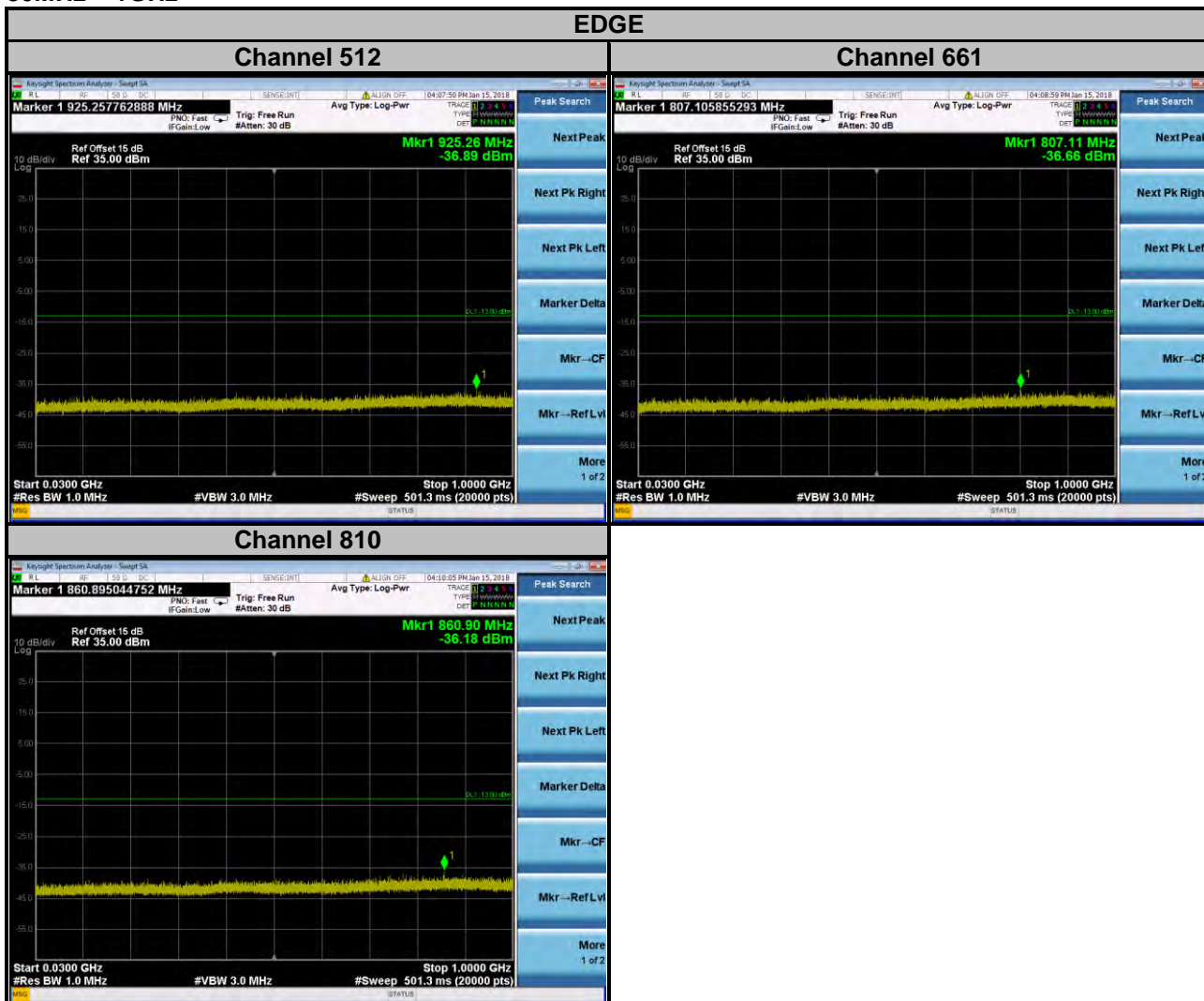
Channel 661



Channel 810



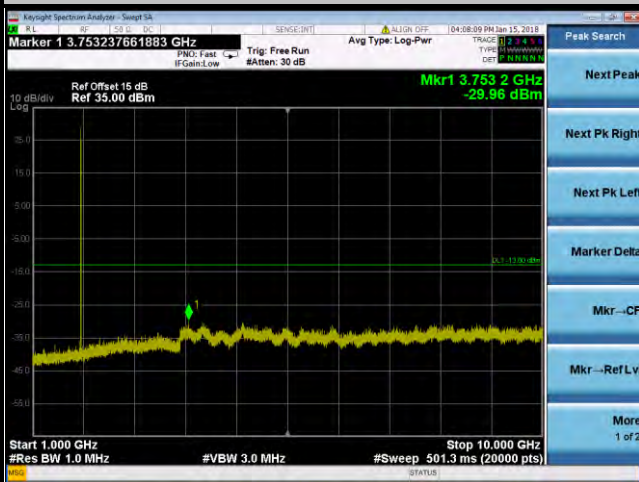
EDGE
30MHz ~ 1GHz



1GHz ~ 10GHz

EDGE

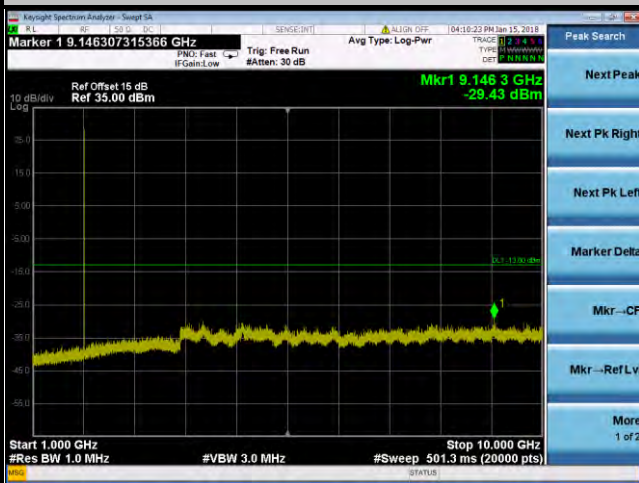
Channel 512



Channel 661



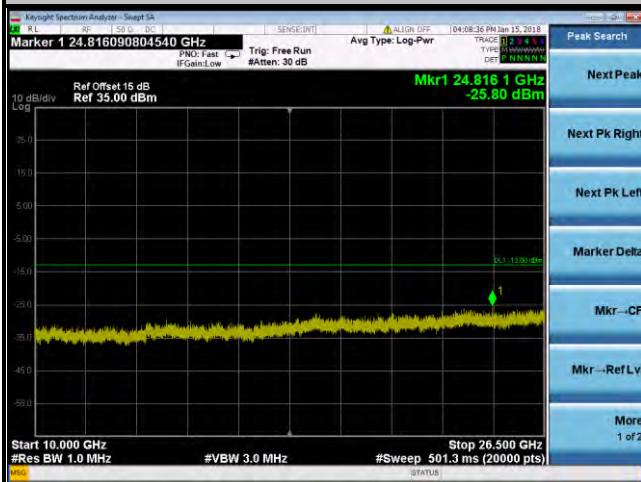
Channel 810



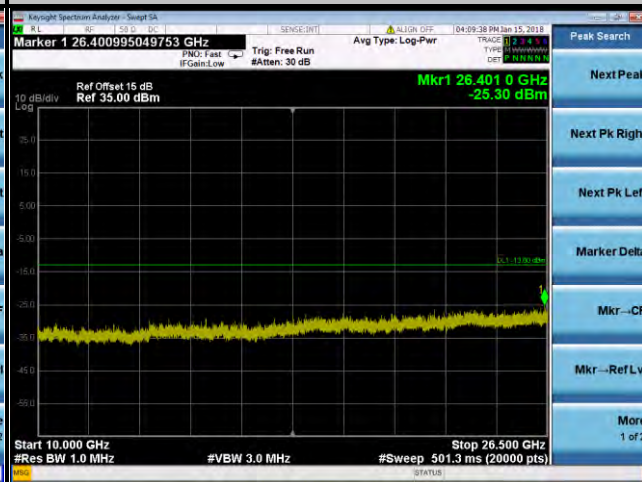
10GHz ~ 26.5GHz

EDGE

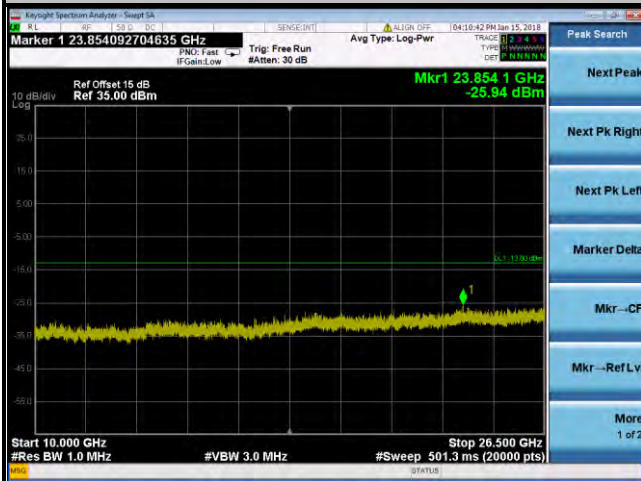
Channel 512



Channel 661

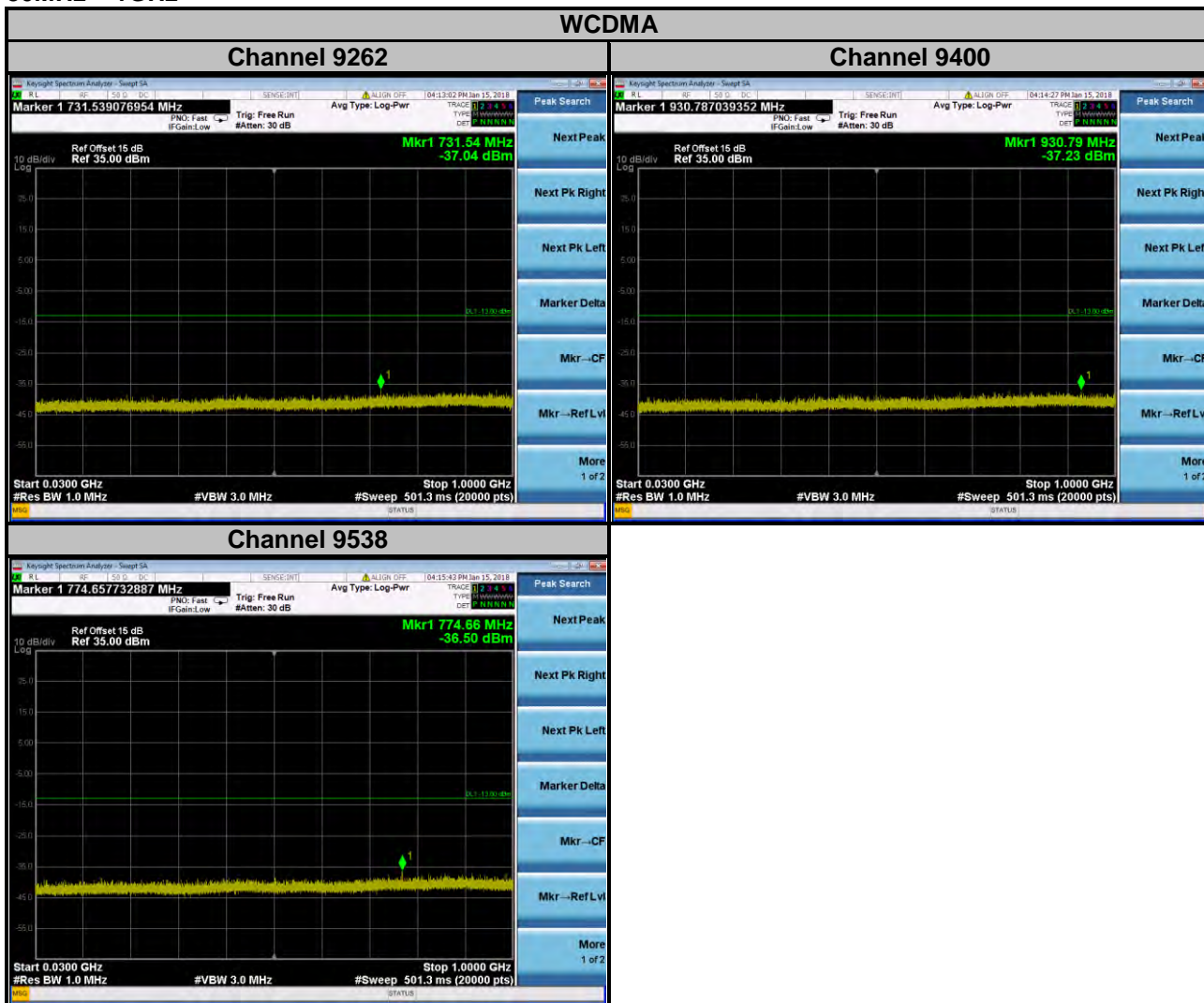


Channel 810



WCDMA
30MHz ~ 1GHz

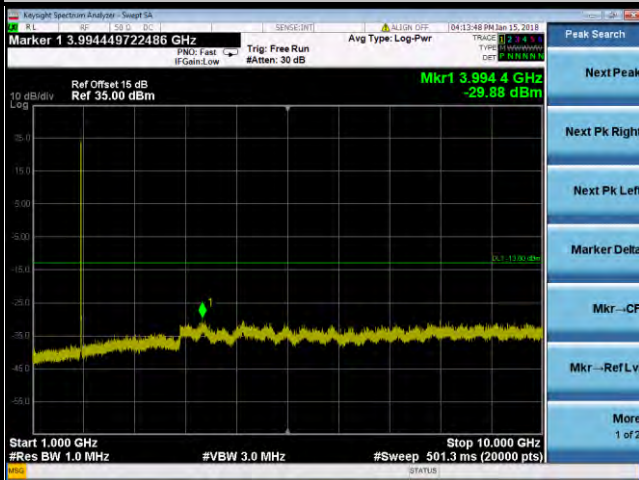
WCDMA



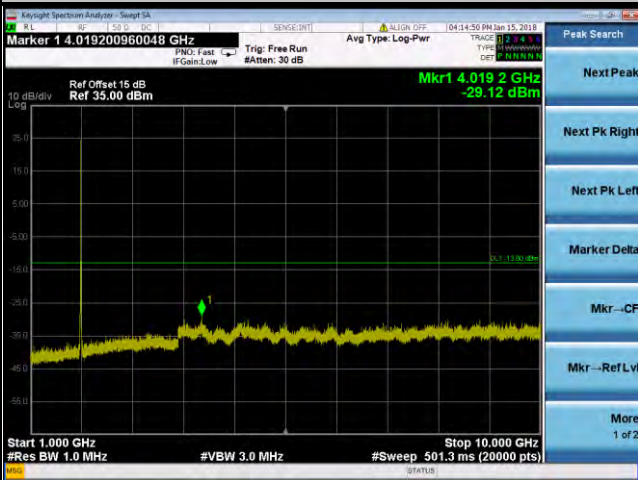
1GHz ~ 10GHz

WCDMA

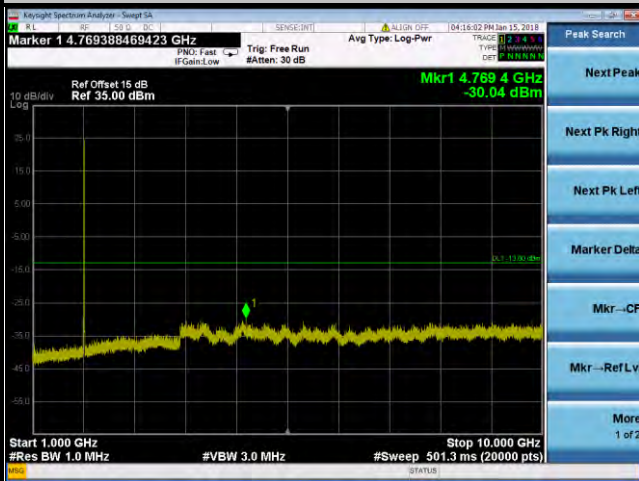
Channel 9262



Channel 9400



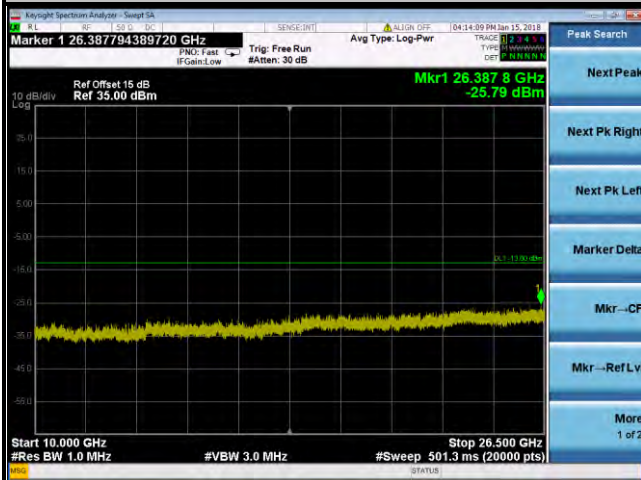
Channel 9538



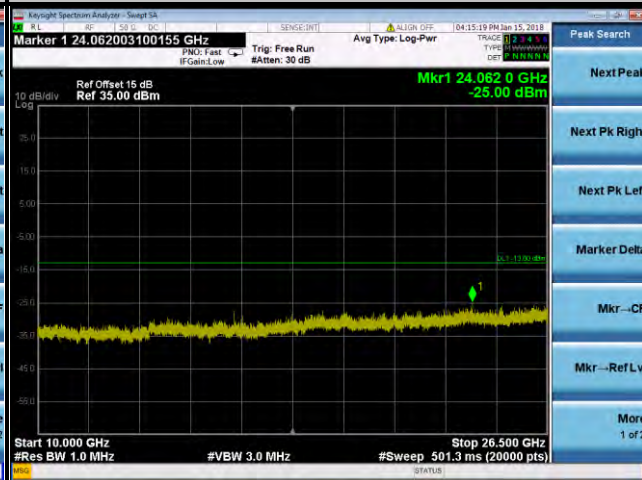
10GHz ~ 26.5GHz

WCDMA

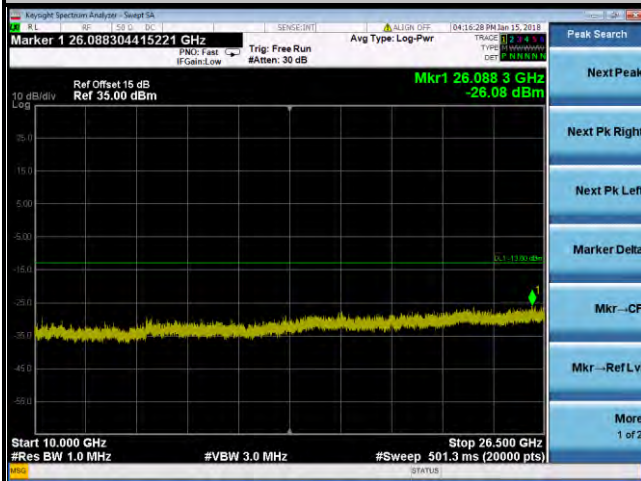
Channel 9262



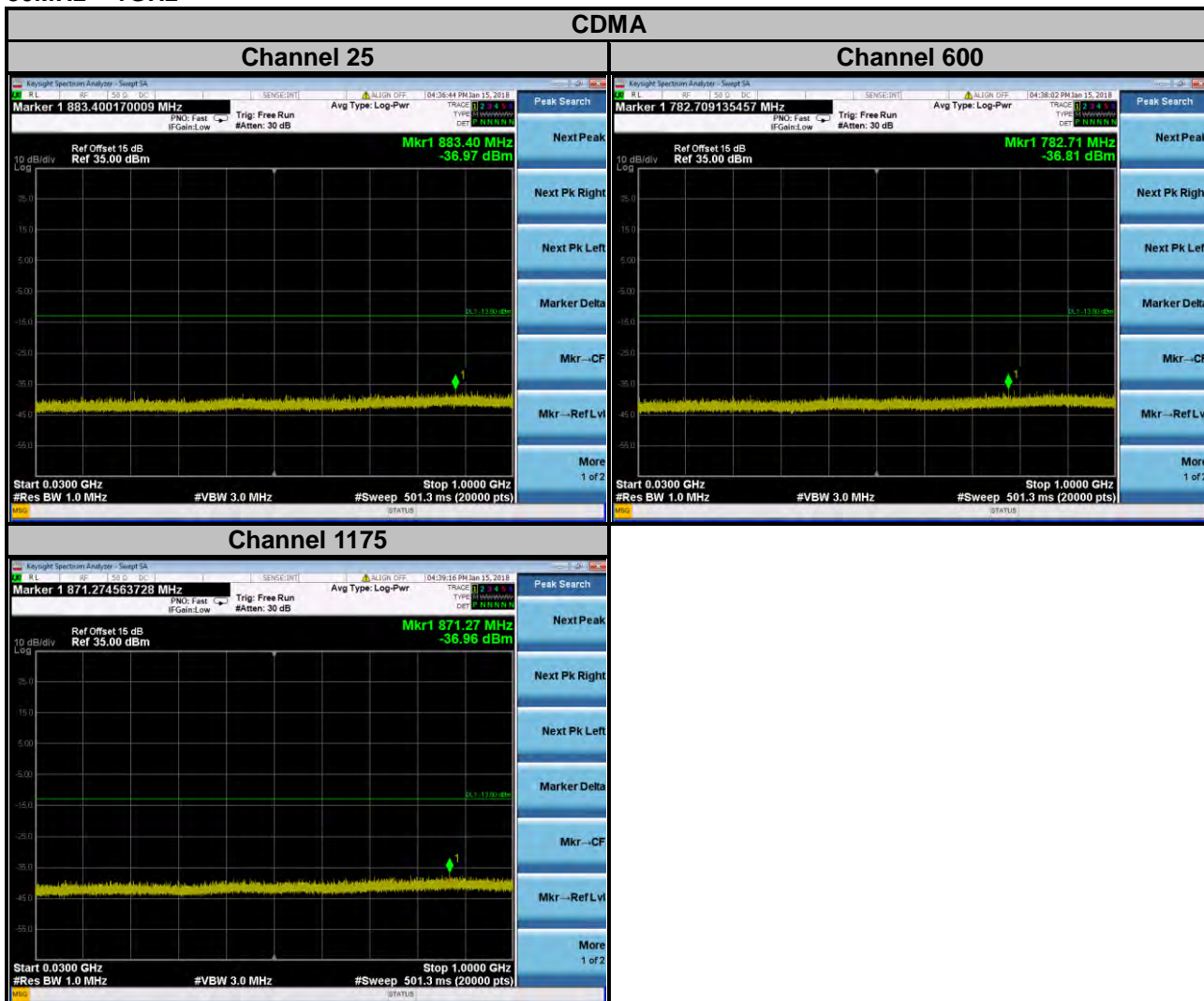
Channel 9400



Channel 9538



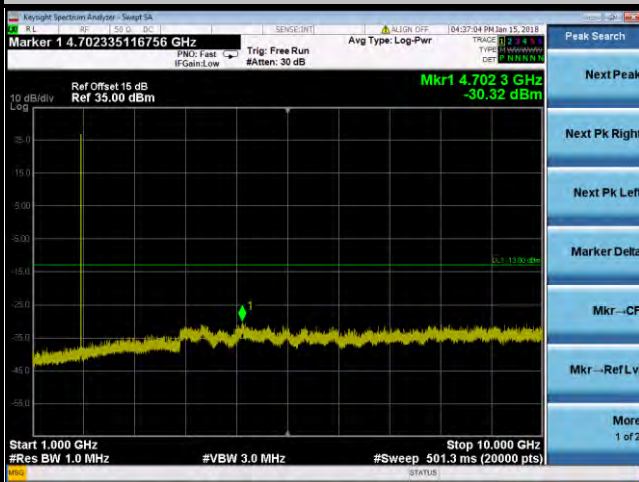
CDMA
30MHz ~ 1GHz



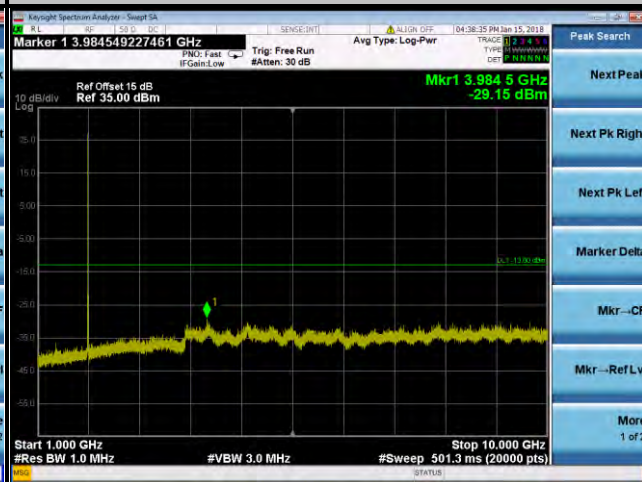
1GHz ~ 10GHz

CDMA

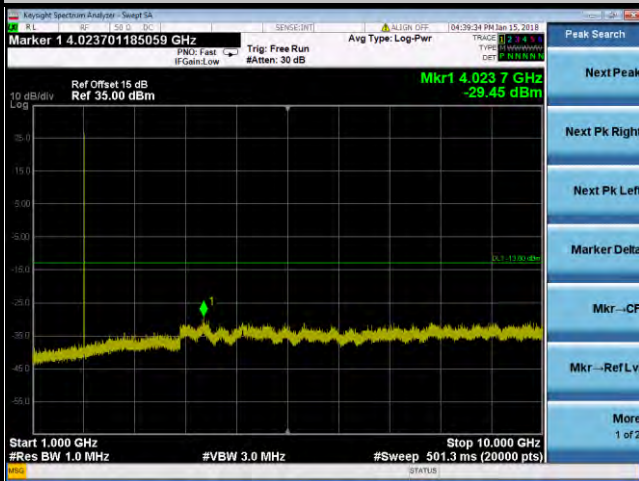
Channel 25



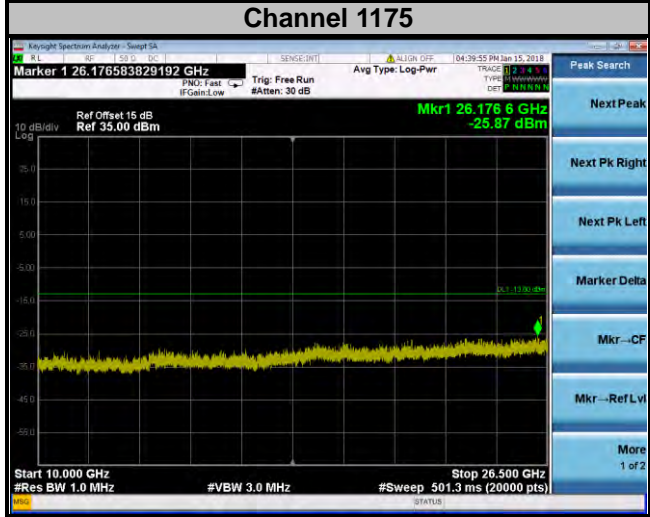
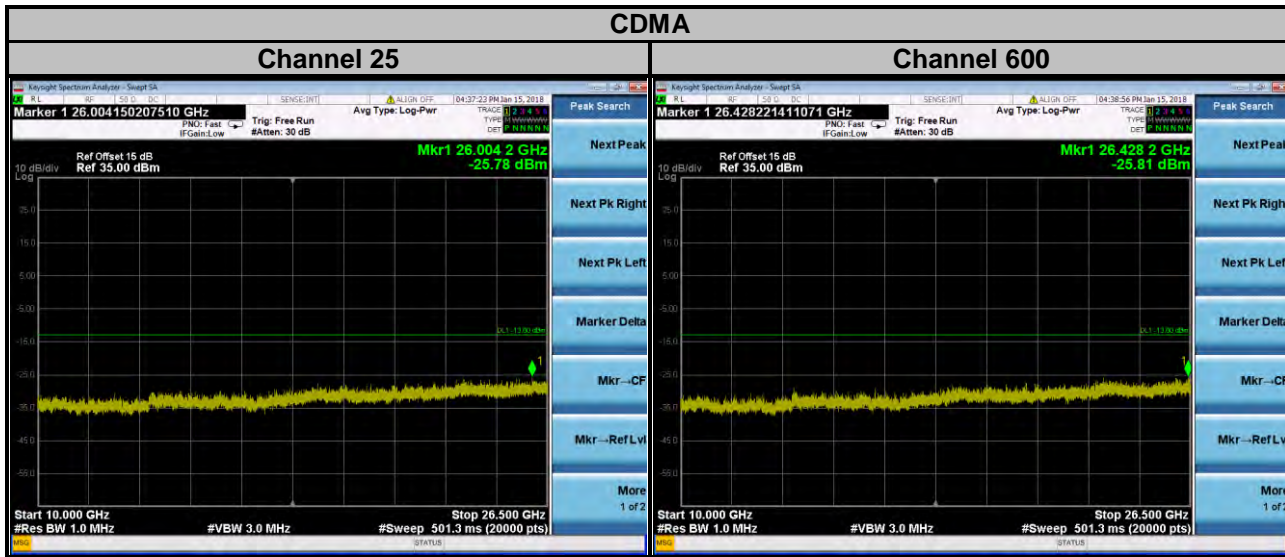
Channel 600



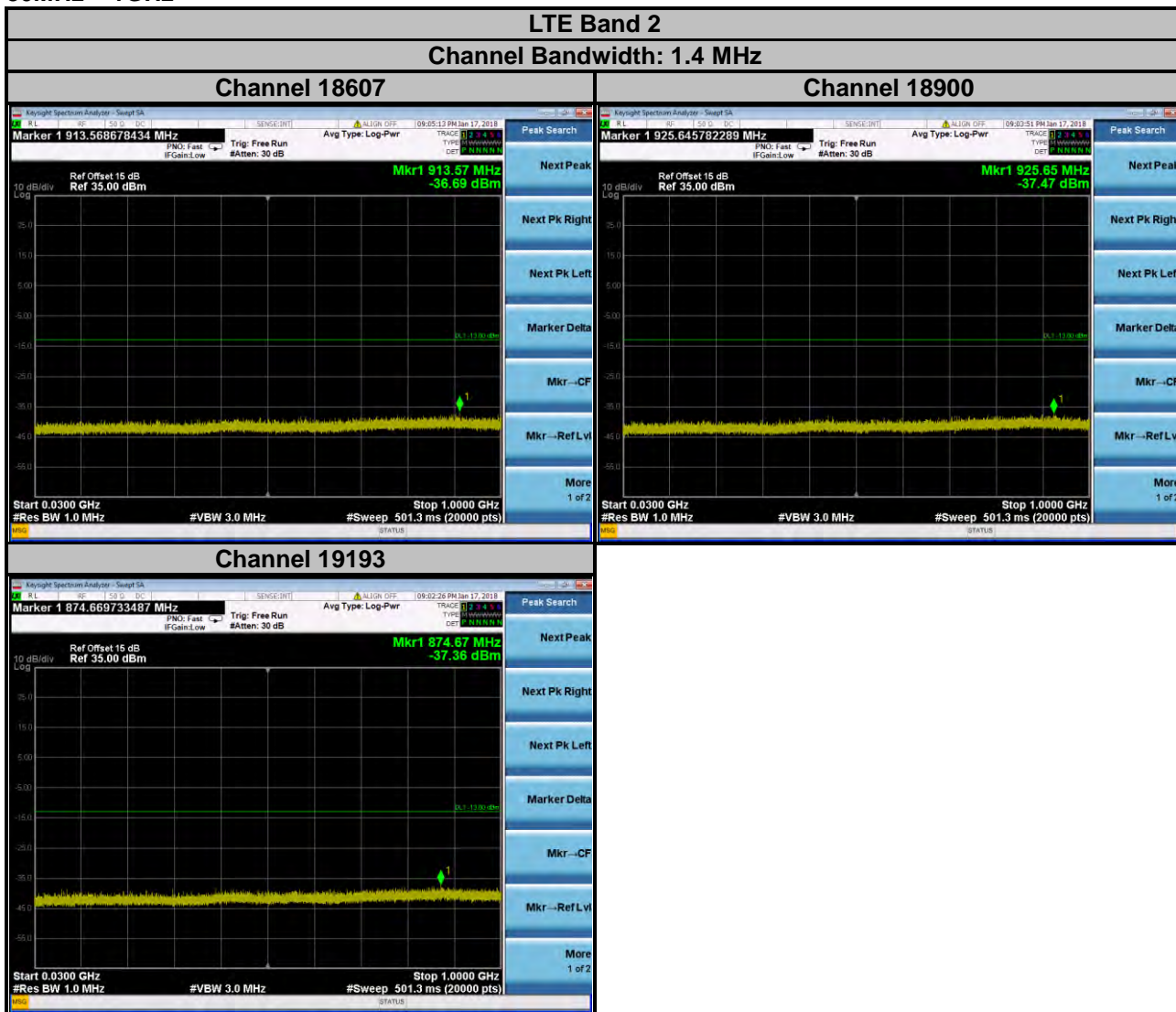
Channel 1175



10GHz ~ 26.5GHz

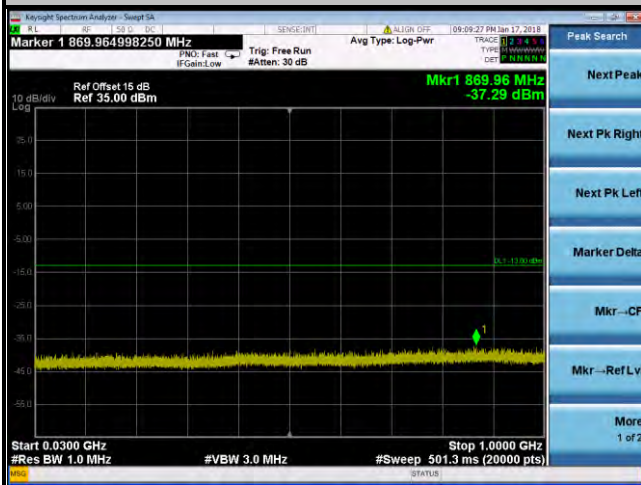


LTE Band 2
30MHz ~ 1GHz

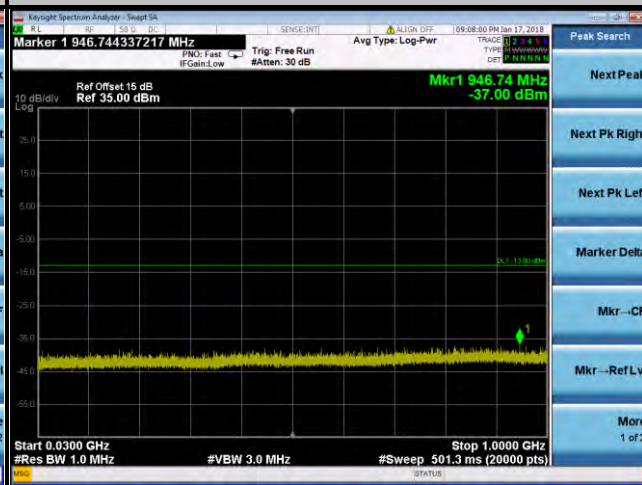


LTE Band 2
Channel Bandwidth: 3 MHz

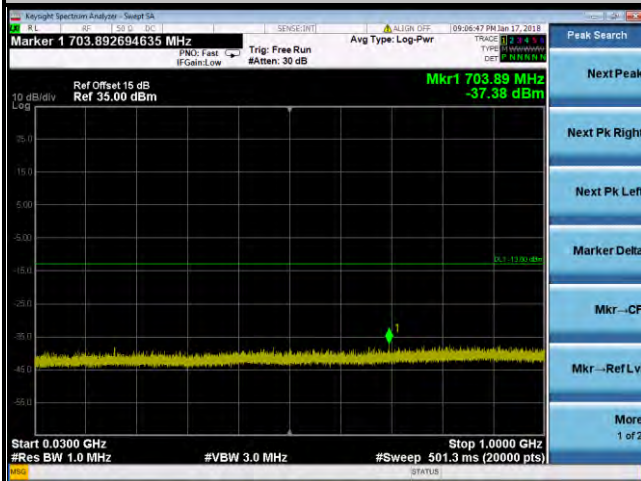
Channel 18615



Channel 18900

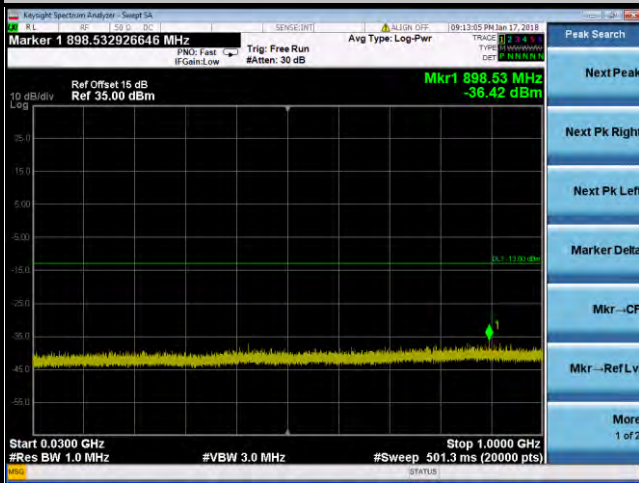


Channel 19185

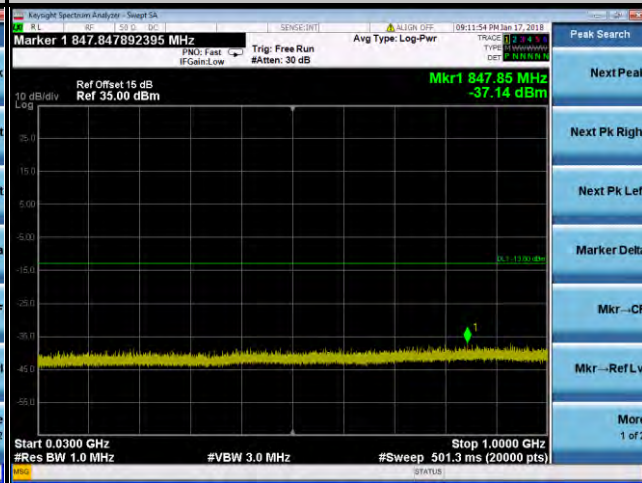


LTE Band 2
Channel Bandwidth: 5 MHz

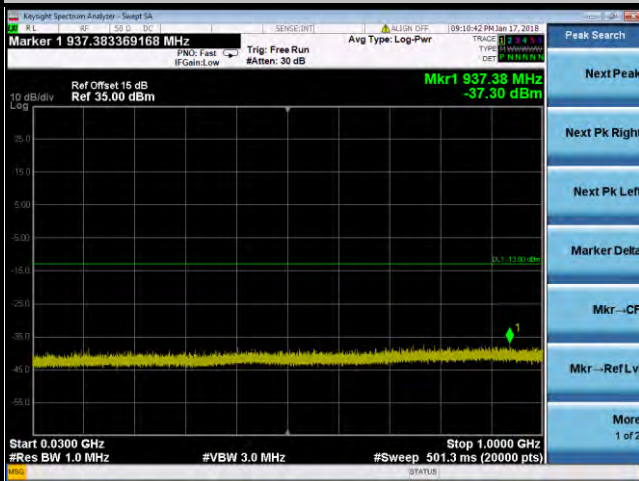
Channel 18625



Channel 18900

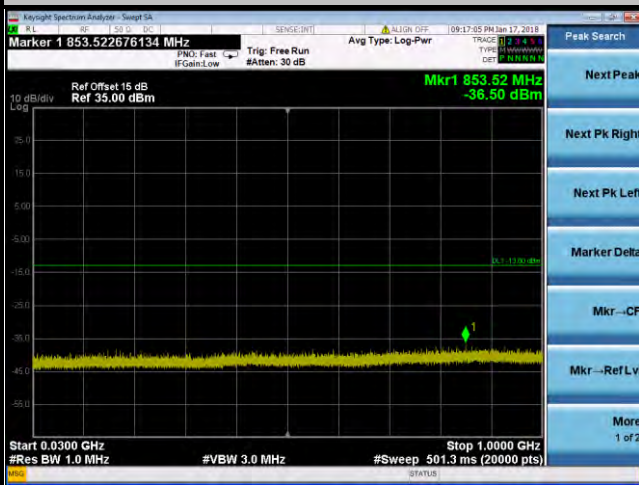


Channel 19175

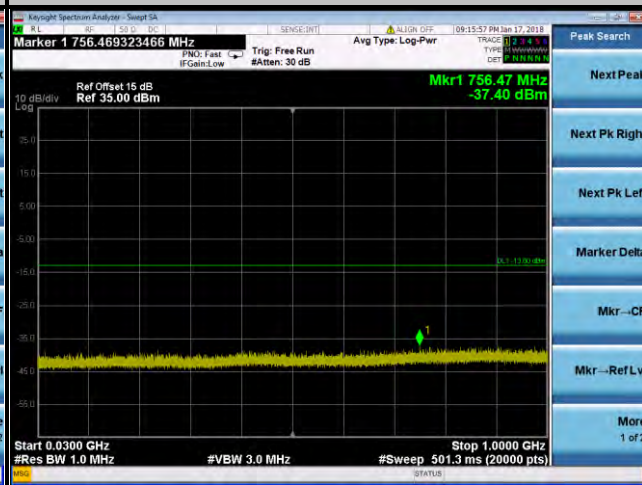


LTE Band 2
Channel Bandwidth: 10 MHz

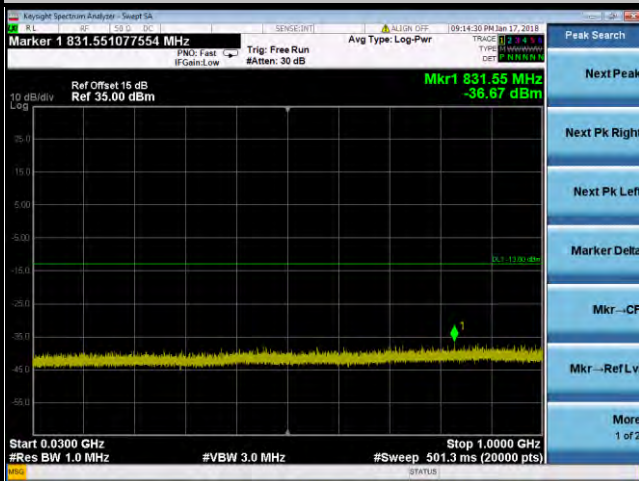
Channel 18650



Channel 18900

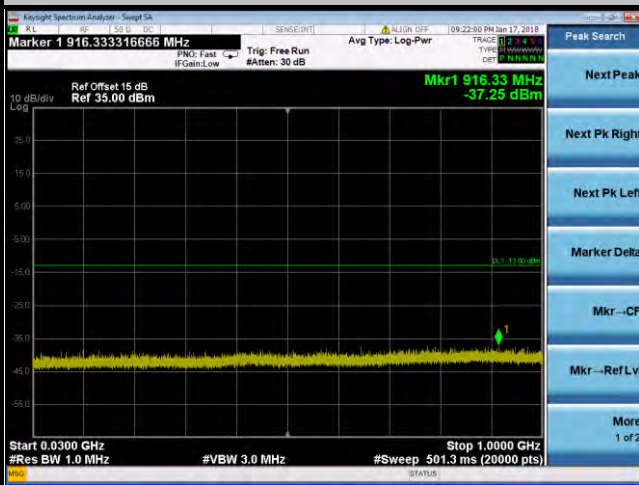


Channel 19150

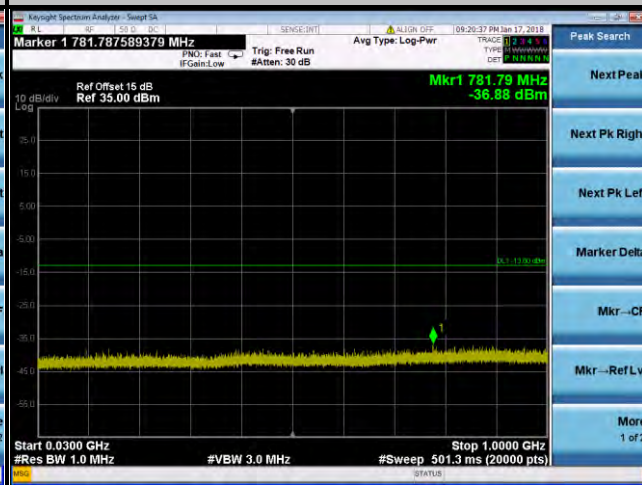


LTE Band 2
Channel Bandwidth: 15 MHz

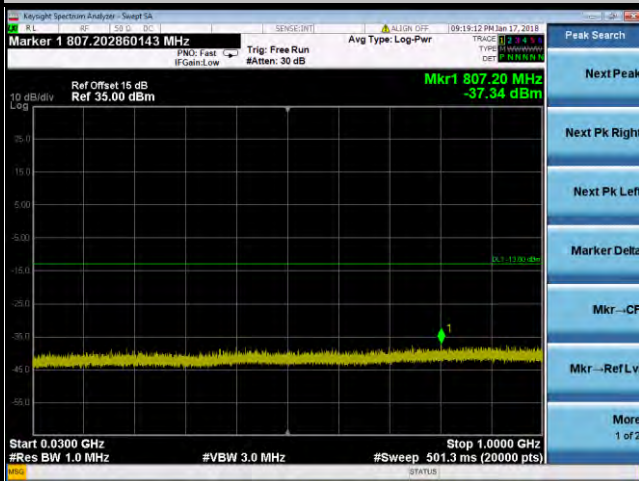
Channel 18675



Channel 18900

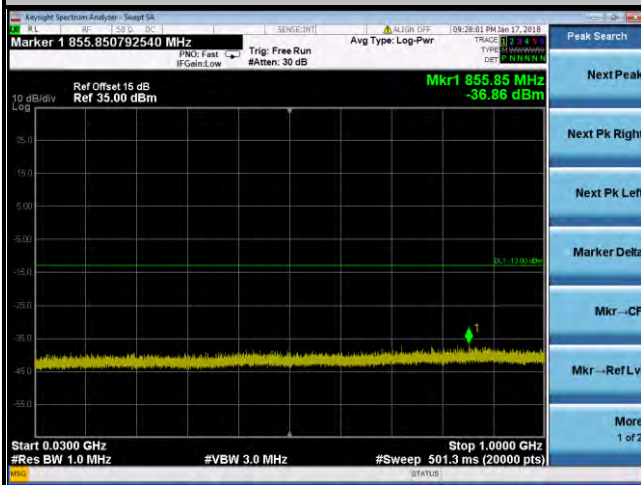


Channel 19125

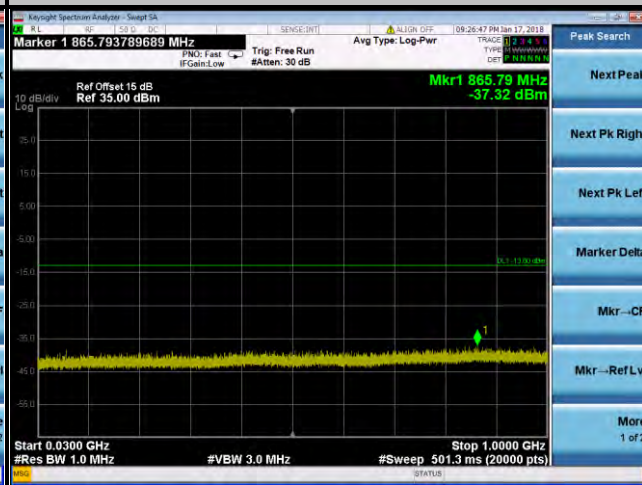


LTE Band 2
Channel Bandwidth: 20 MHz

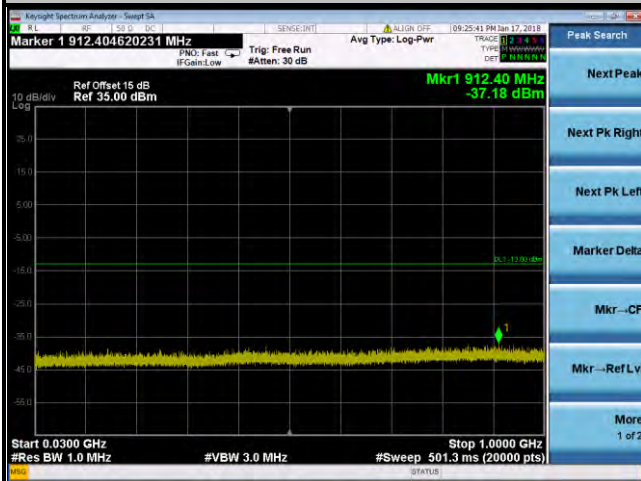
Channel 18700



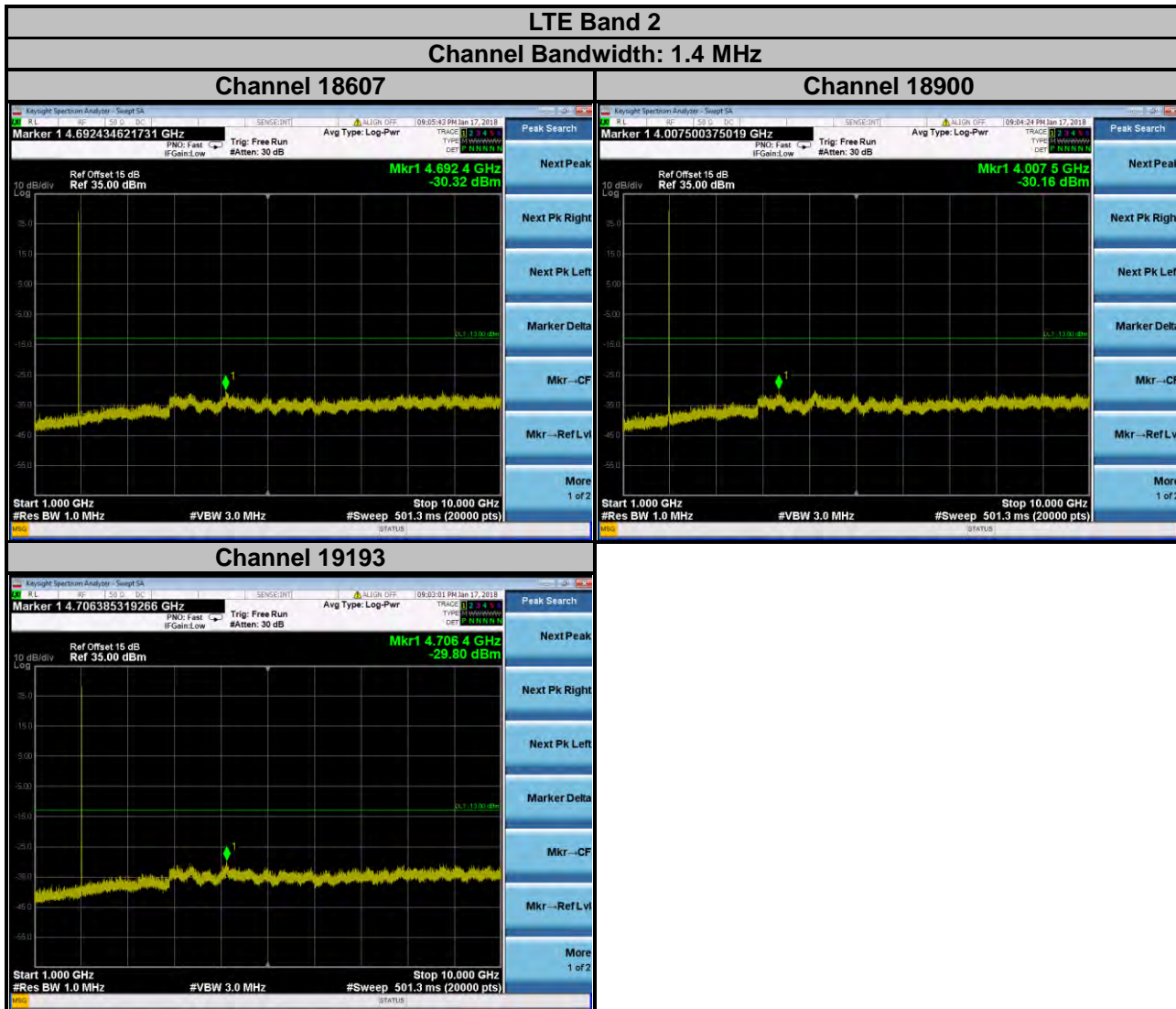
Channel 18900



Channel 19100

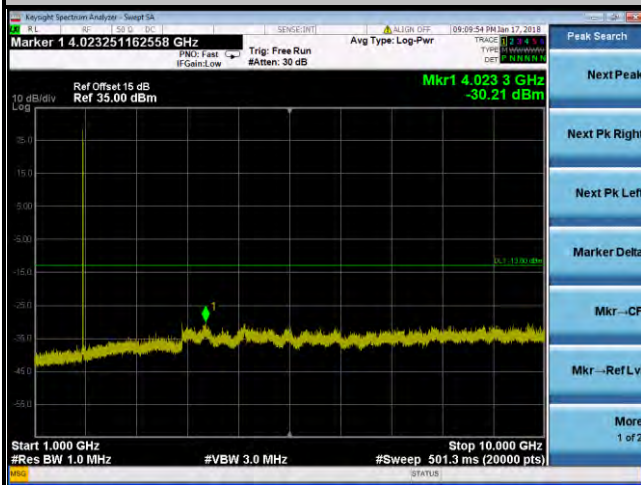


1GHz ~ 10GHz

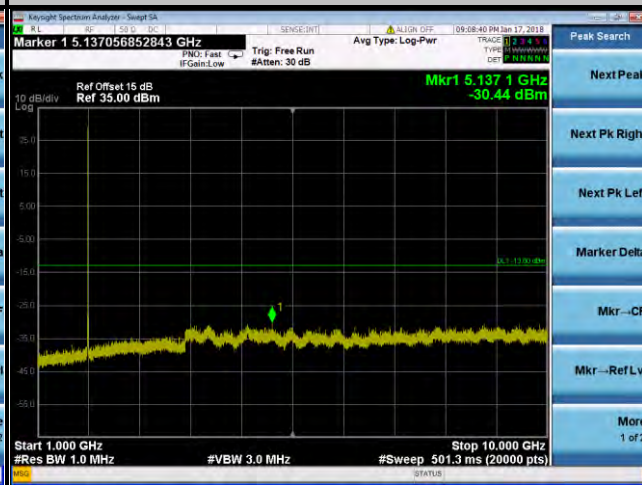


LTE Band 2
Channel Bandwidth: 3 MHz

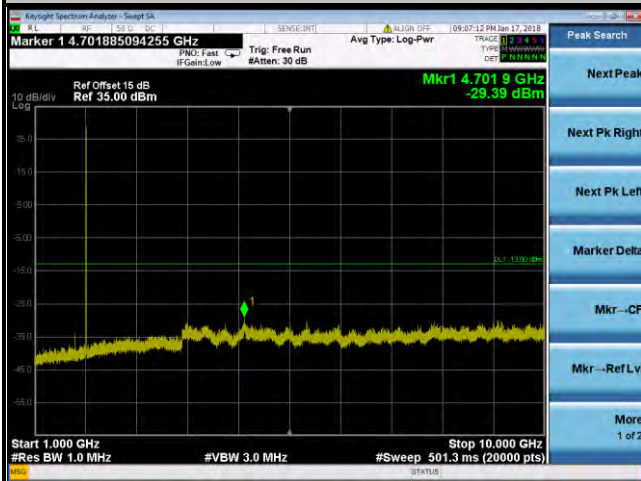
Channel 18615



Channel 18900

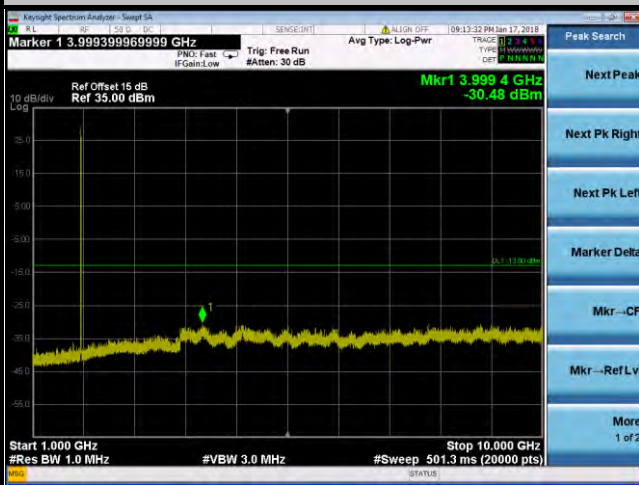


Channel 19185

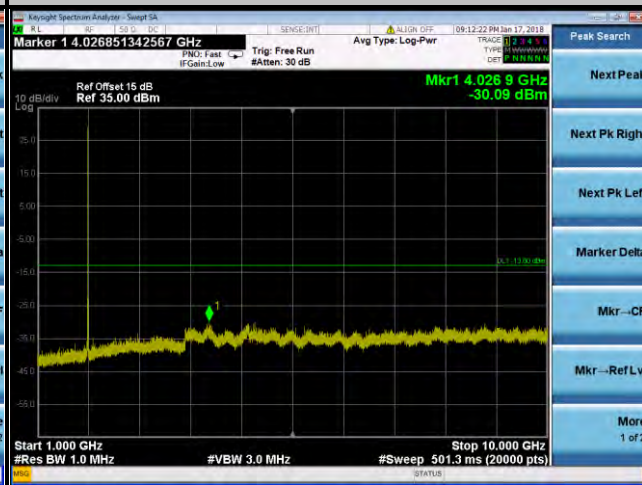


LTE Band 2
Channel Bandwidth: 5 MHz

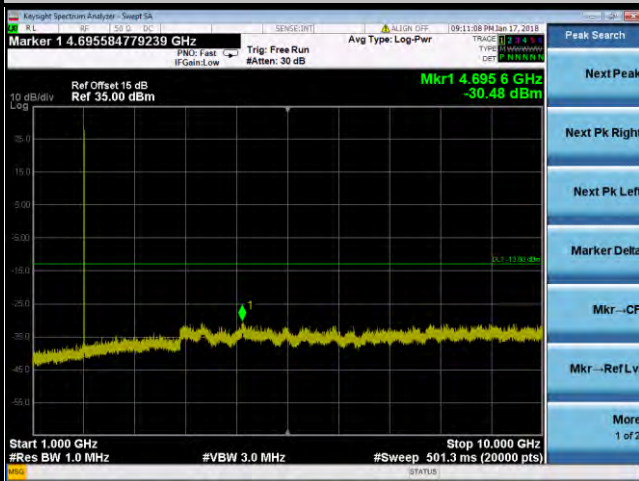
Channel 18625



Channel 18900

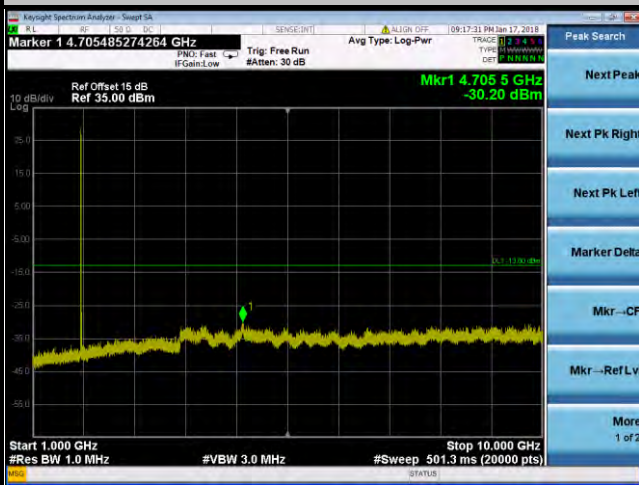


Channel 19175

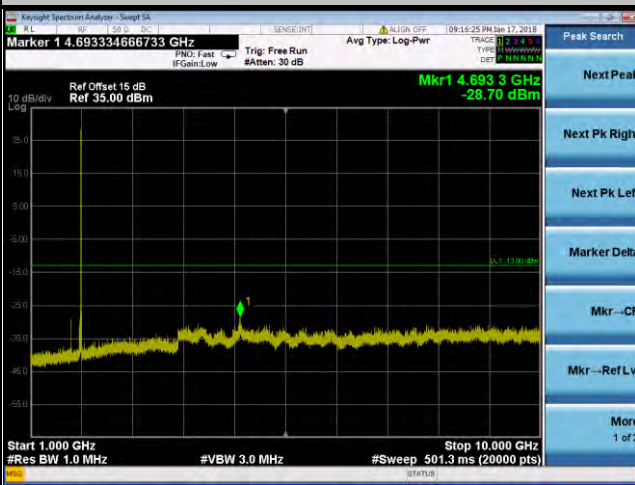


LTE Band 2
Channel Bandwidth: 10 MHz

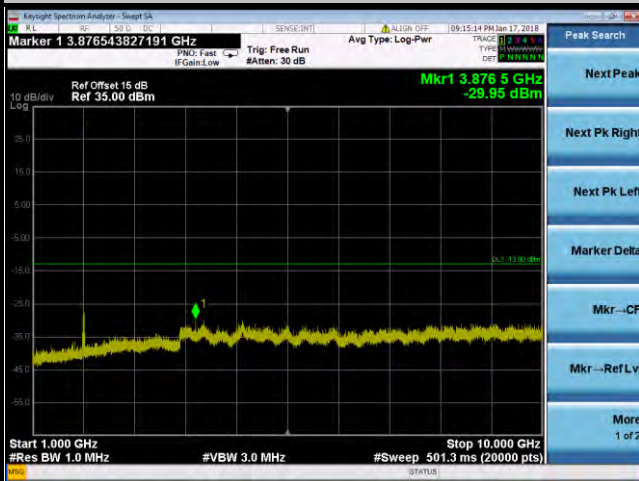
Channel 18650



Channel 18900

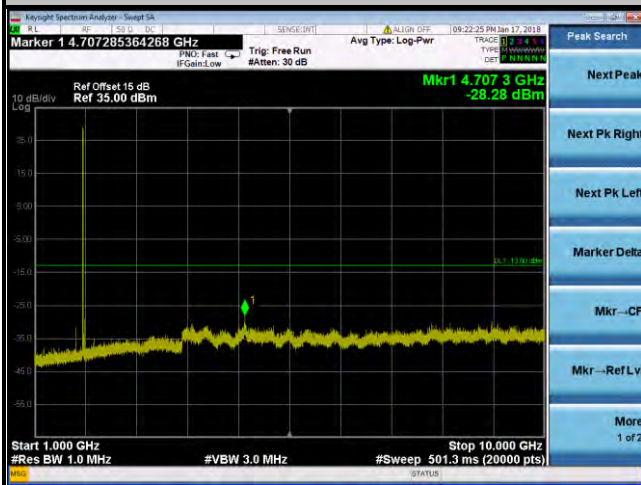


Channel 19150

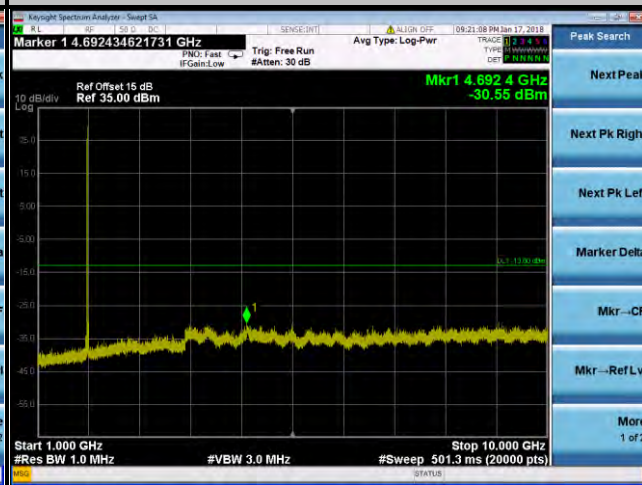


LTE Band 2
Channel Bandwidth: 15 MHz

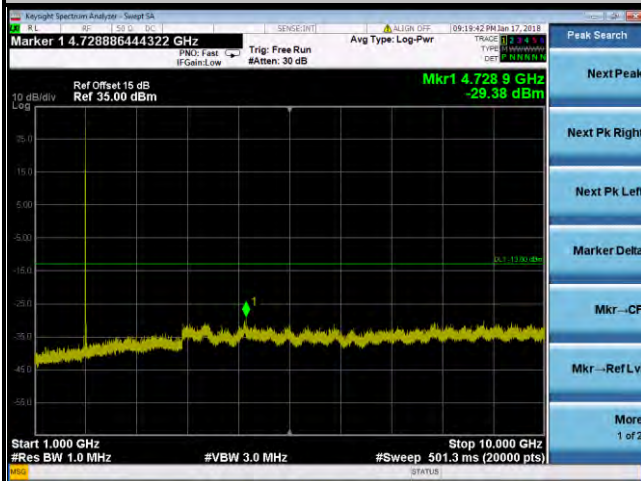
Channel 18675



Channel 18900

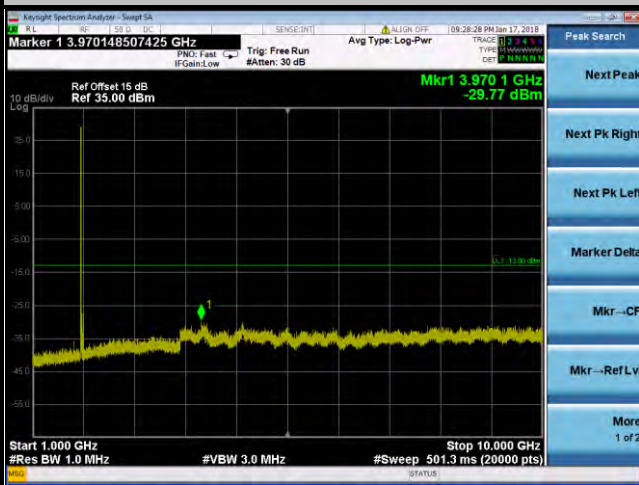


Channel 19125

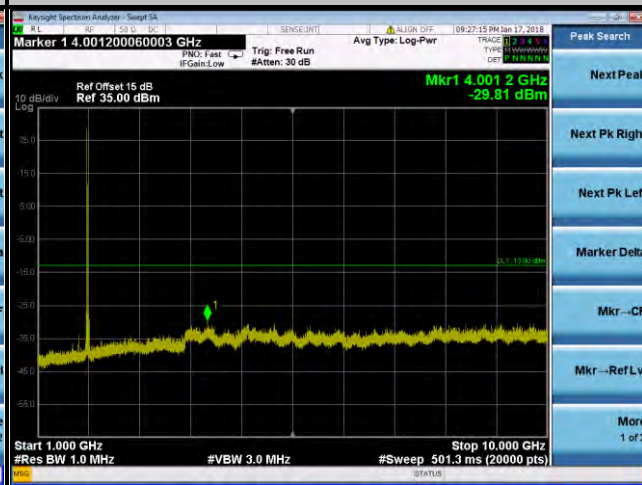


LTE Band 2
Channel Bandwidth: 20 MHz

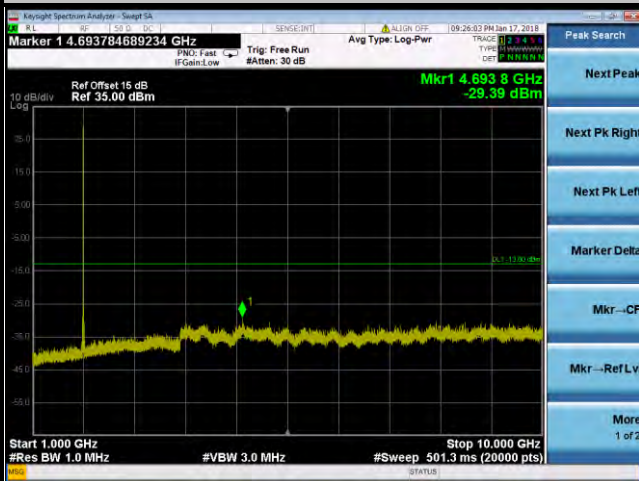
Channel 18700



Channel 18900

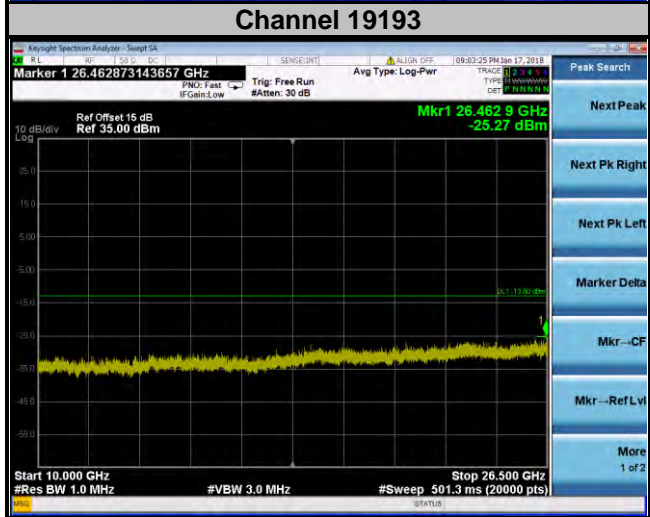
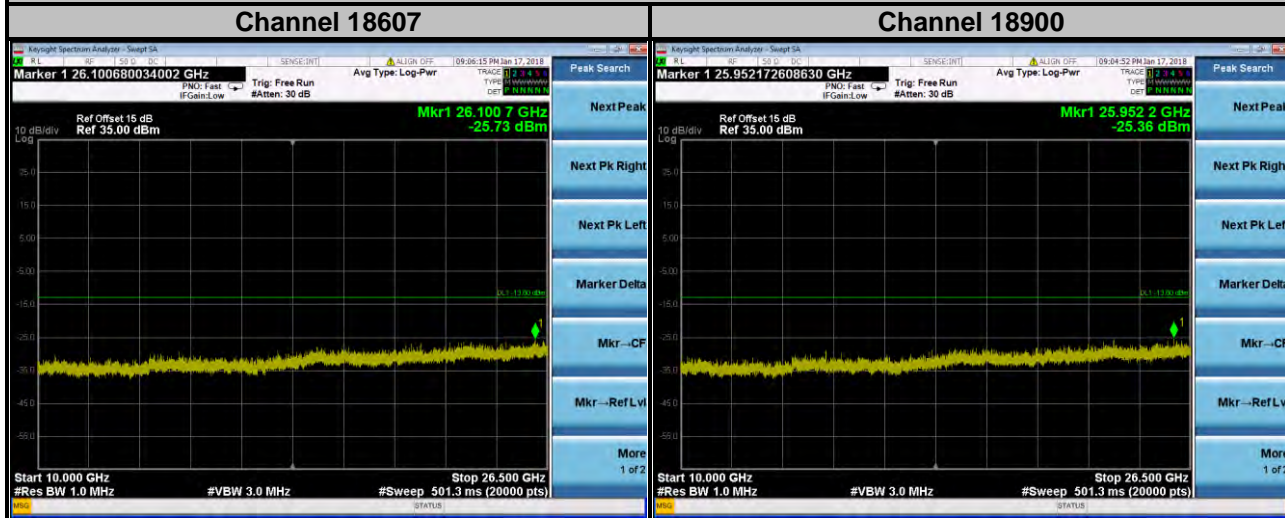


Channel 19100



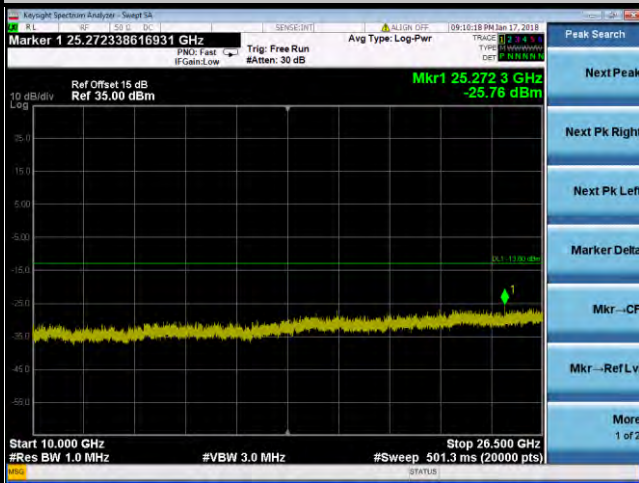
10GHz ~ 26.5GHz

LTE Band 2
Channel Bandwidth: 1.4 MHz

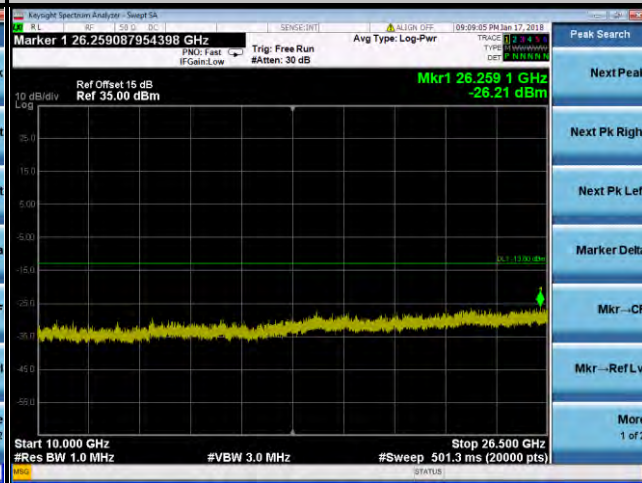


LTE Band 2
Channel Bandwidth: 3 MHz

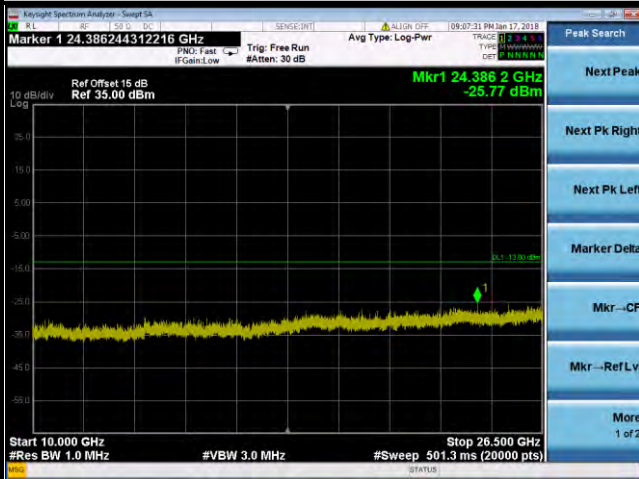
Channel 18615



Channel 18900

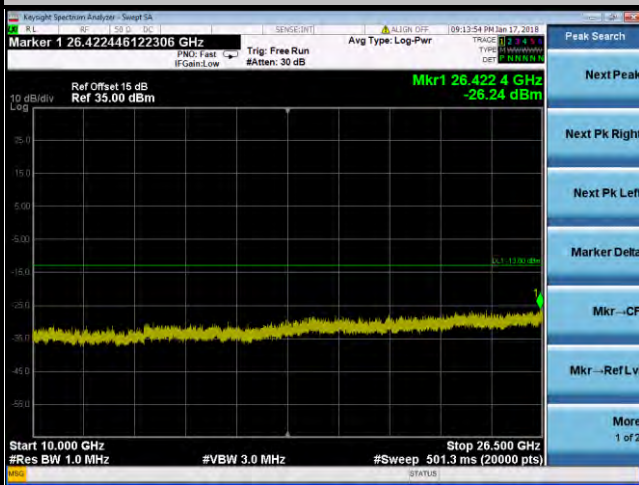


Channel 19185

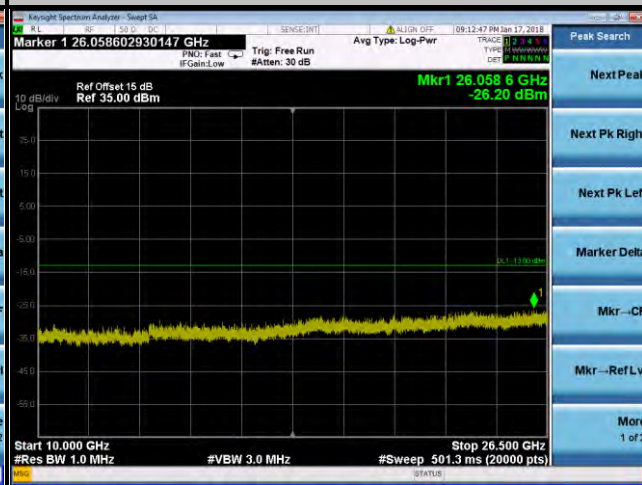


LTE Band 2
Channel Bandwidth: 5 MHz

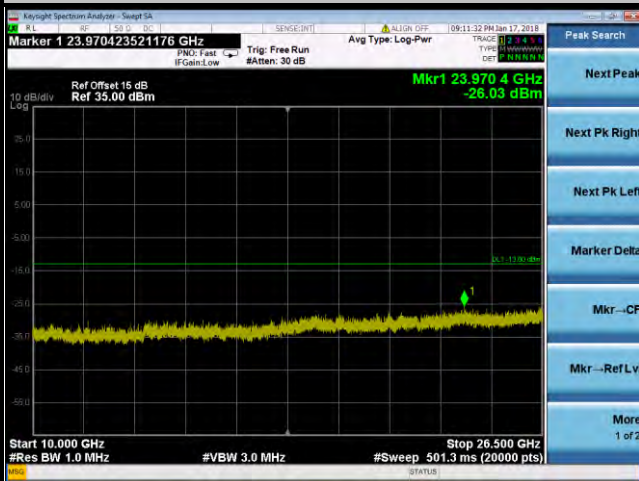
Channel 18625



Channel 18900

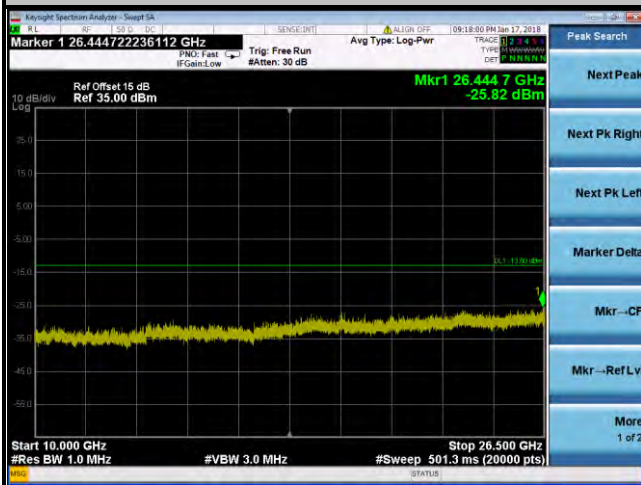


Channel 19175

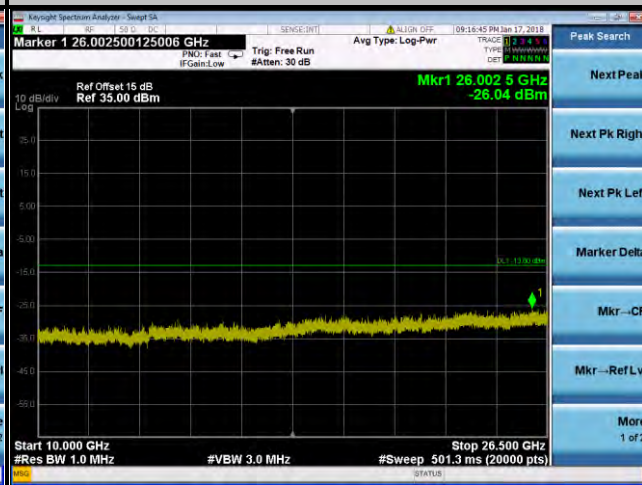


LTE Band 2
Channel Bandwidth: 10 MHz

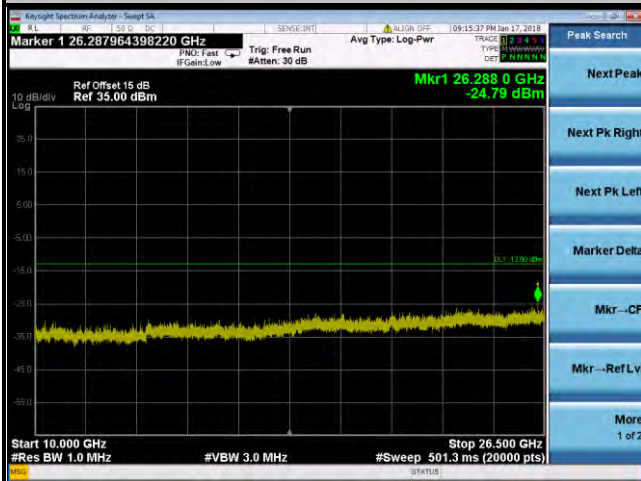
Channel 18650



Channel 18900

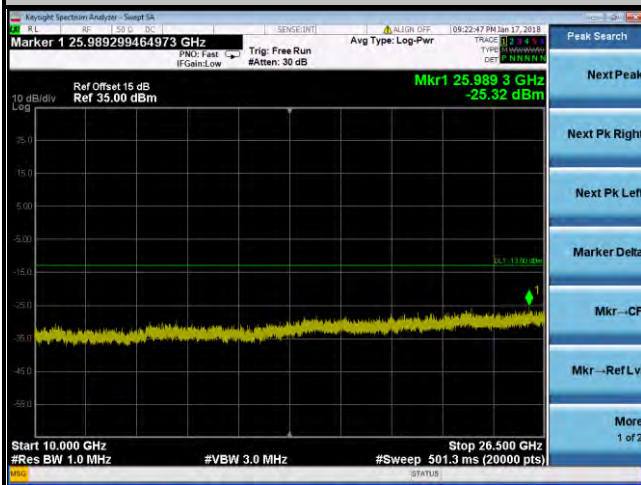


Channel 19150

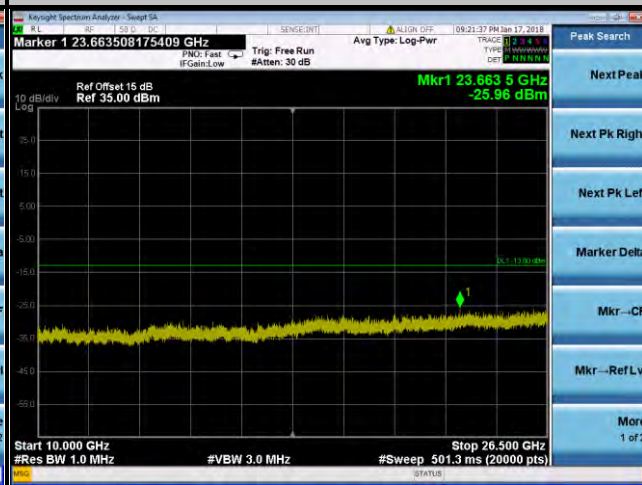


LTE Band 2
Channel Bandwidth: 15 MHz

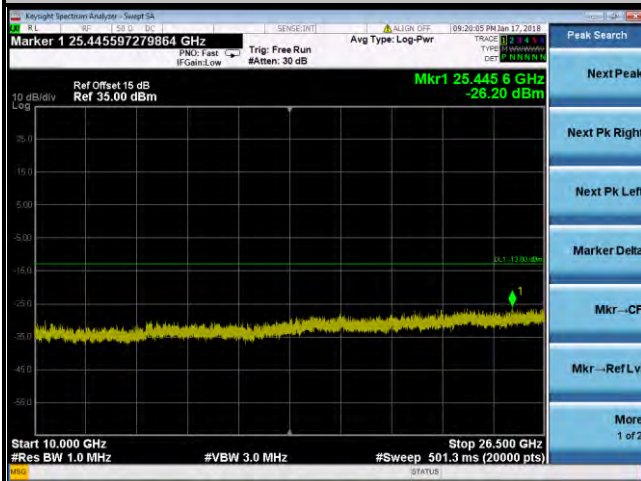
Channel 18675



Channel 18900

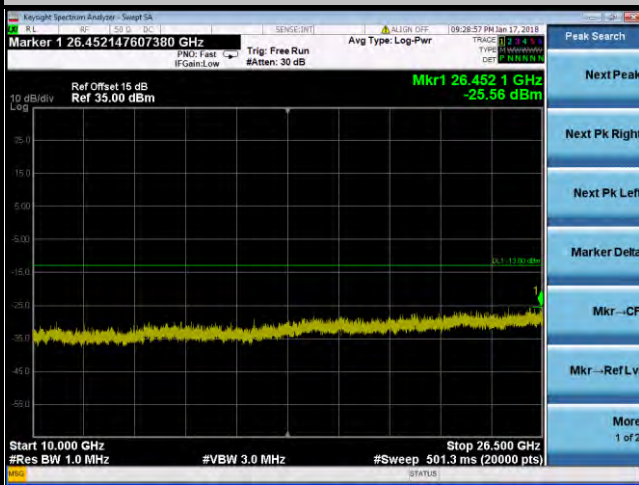


Channel 19125

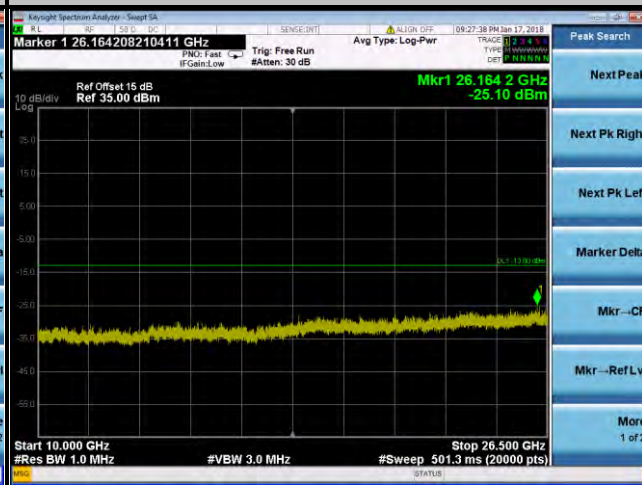


LTE Band 2
Channel Bandwidth: 20 MHz

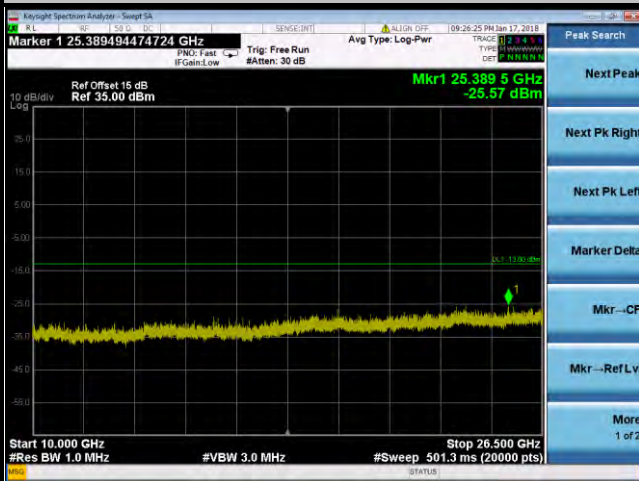
Channel 18700



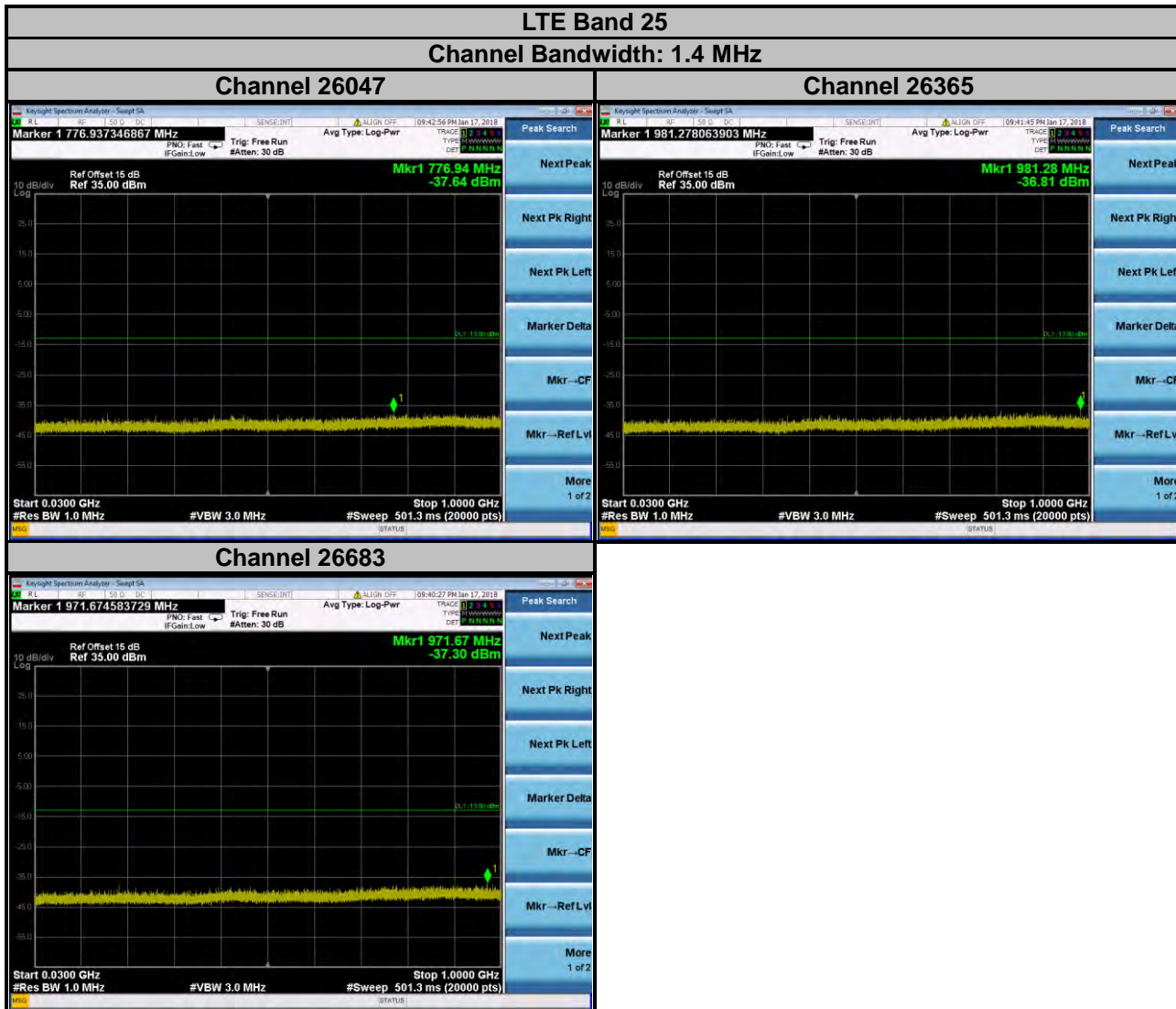
Channel 18900



Channel 19100

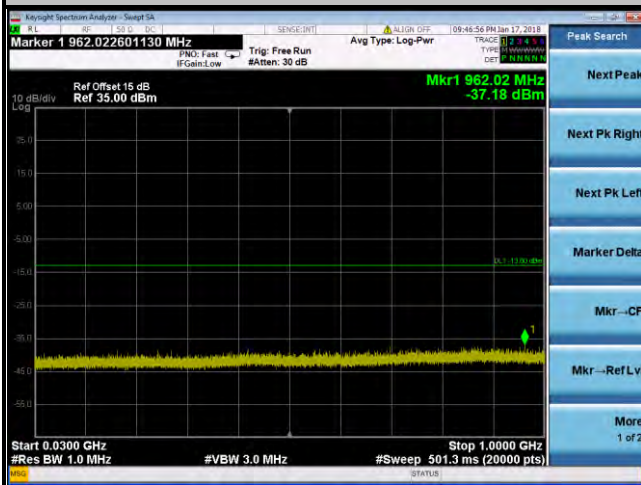


LTE Band 25
30MHz ~ 1GHz

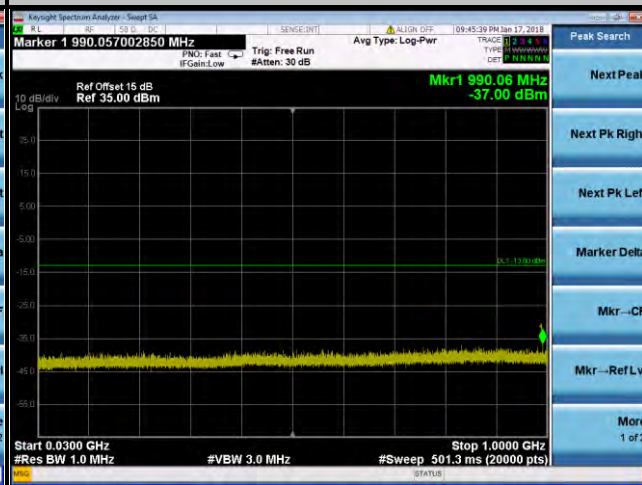


LTE Band 25
Channel Bandwidth: 3 MHz

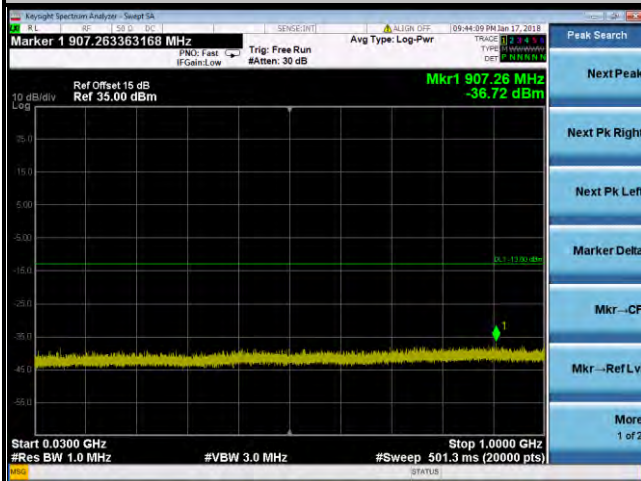
Channel 26055



Channel 26365

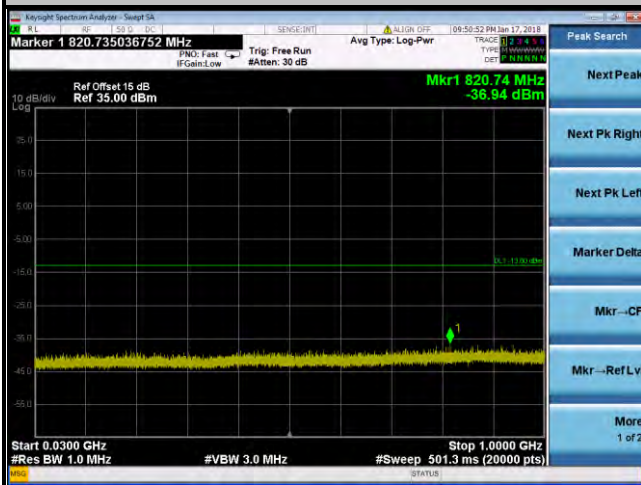


Channel 26675

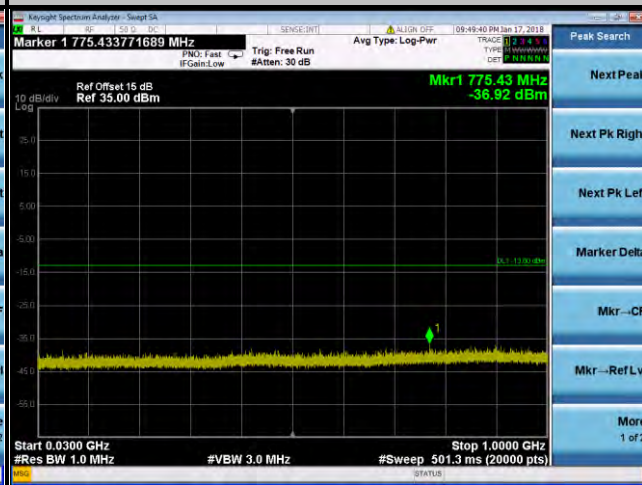


LTE Band 25
Channel Bandwidth: 5 MHz

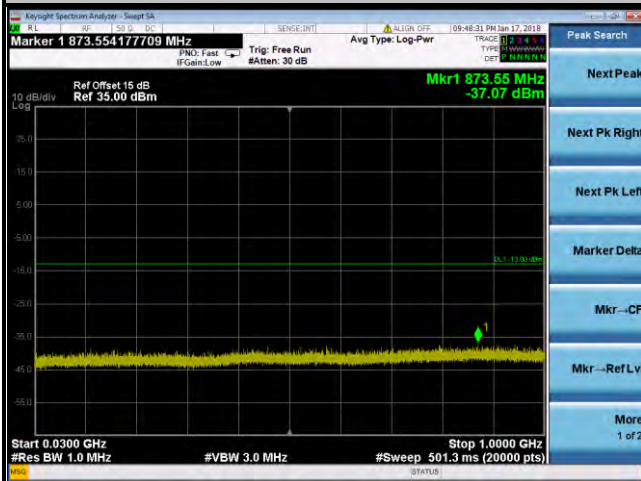
Channel 26065



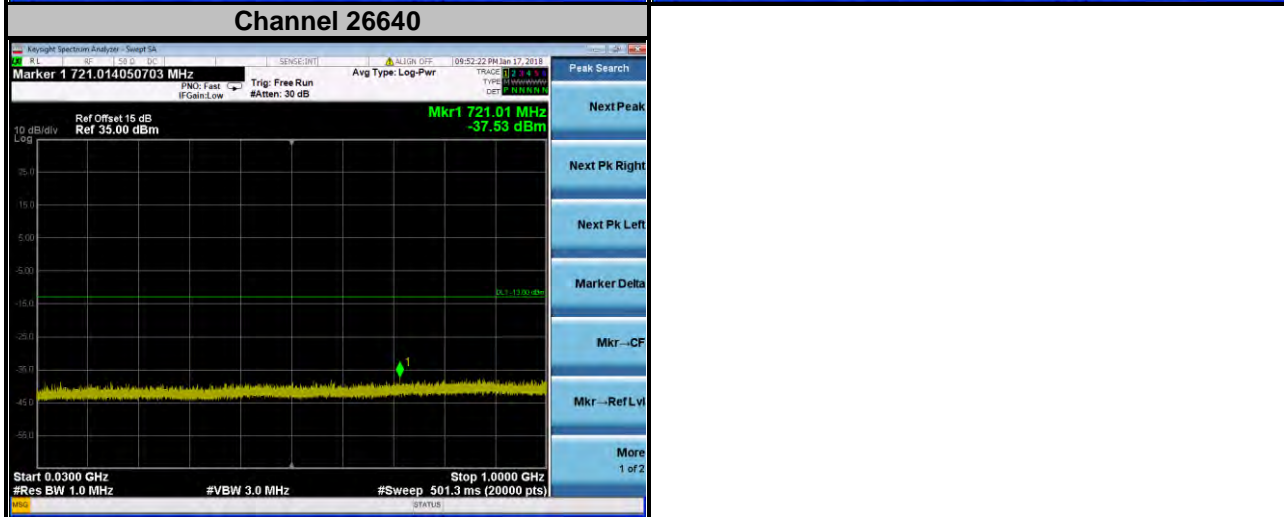
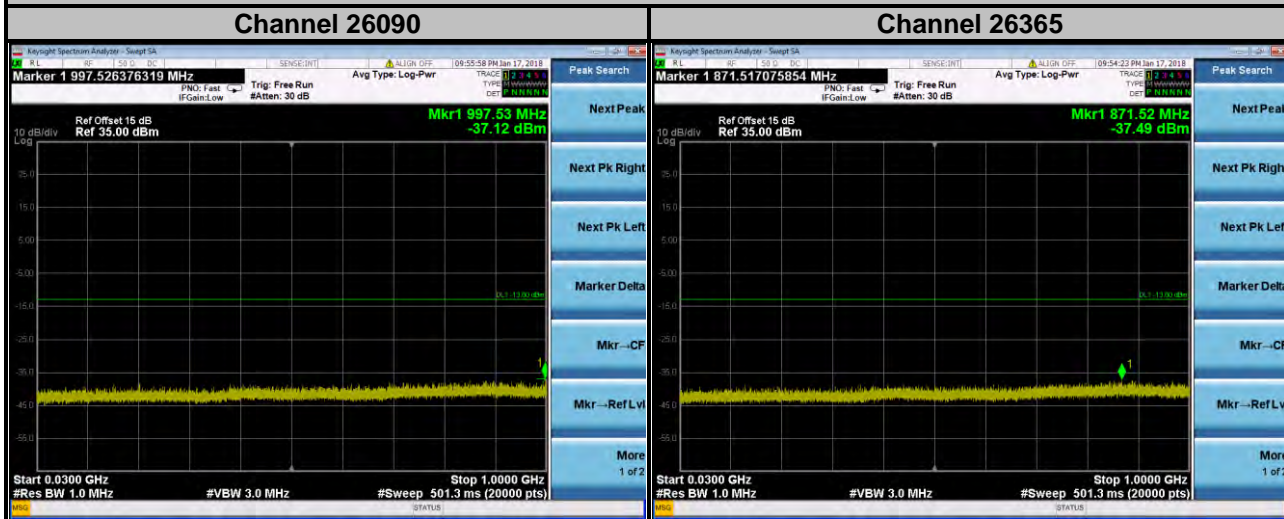
Channel 26365



Channel 26665

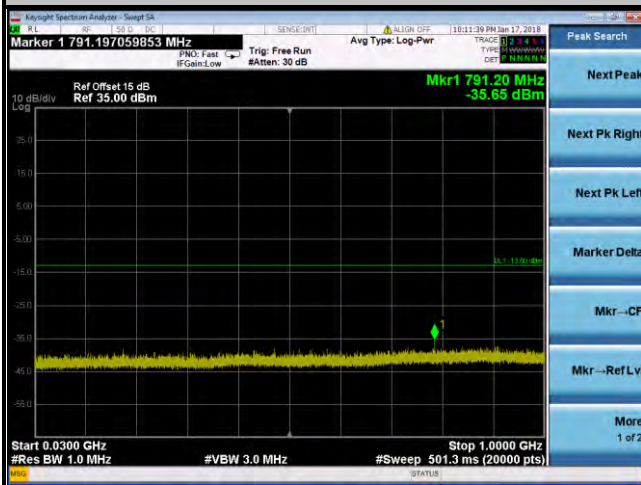


LTE Band 25
Channel Bandwidth: 10 MHz

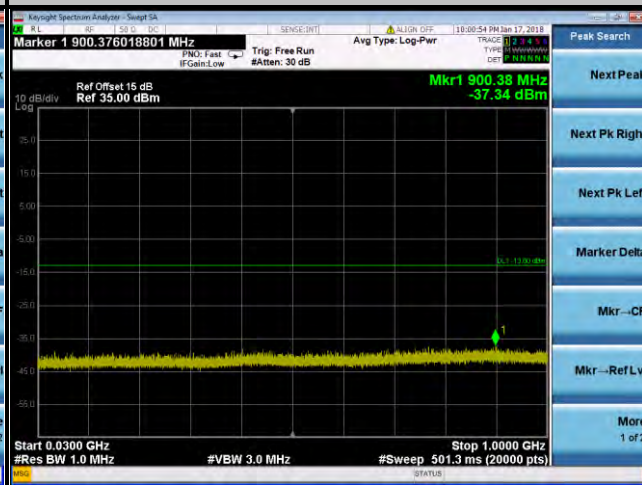


LTE Band 25
Channel Bandwidth: 15 MHz

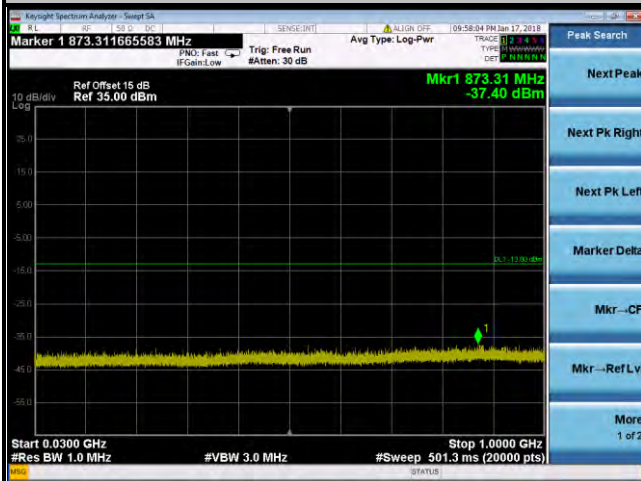
Channel 26115



Channel 26365

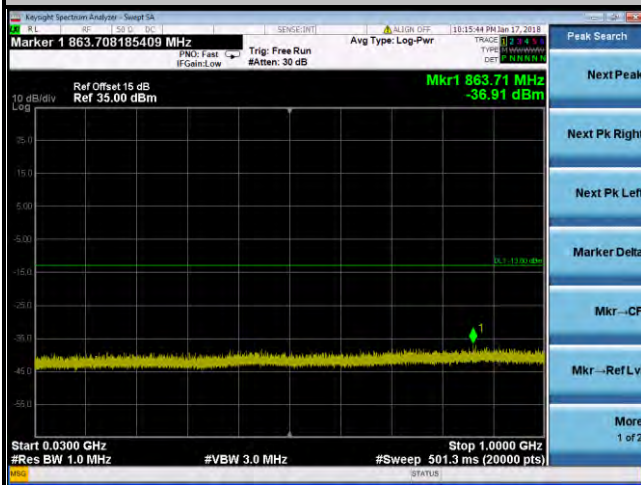


Channel 26615

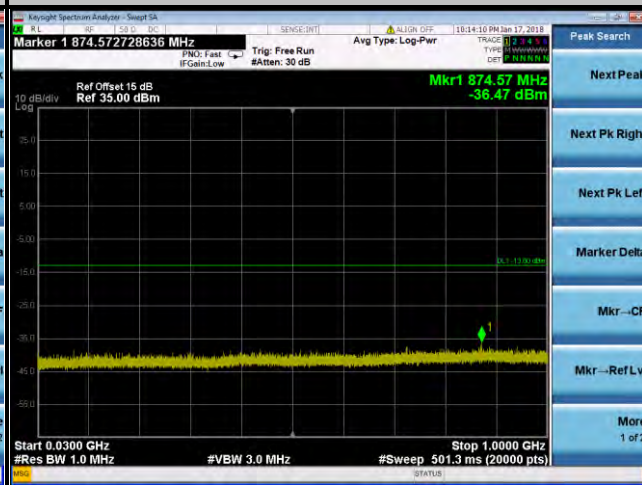


LTE Band 25
Channel Bandwidth: 20 MHz

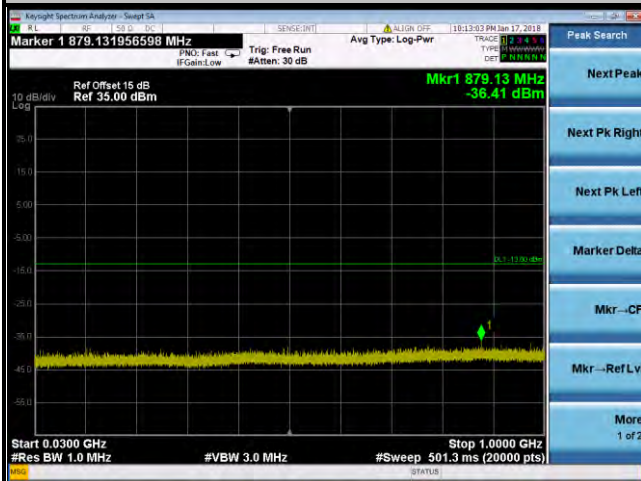
Channel 26140



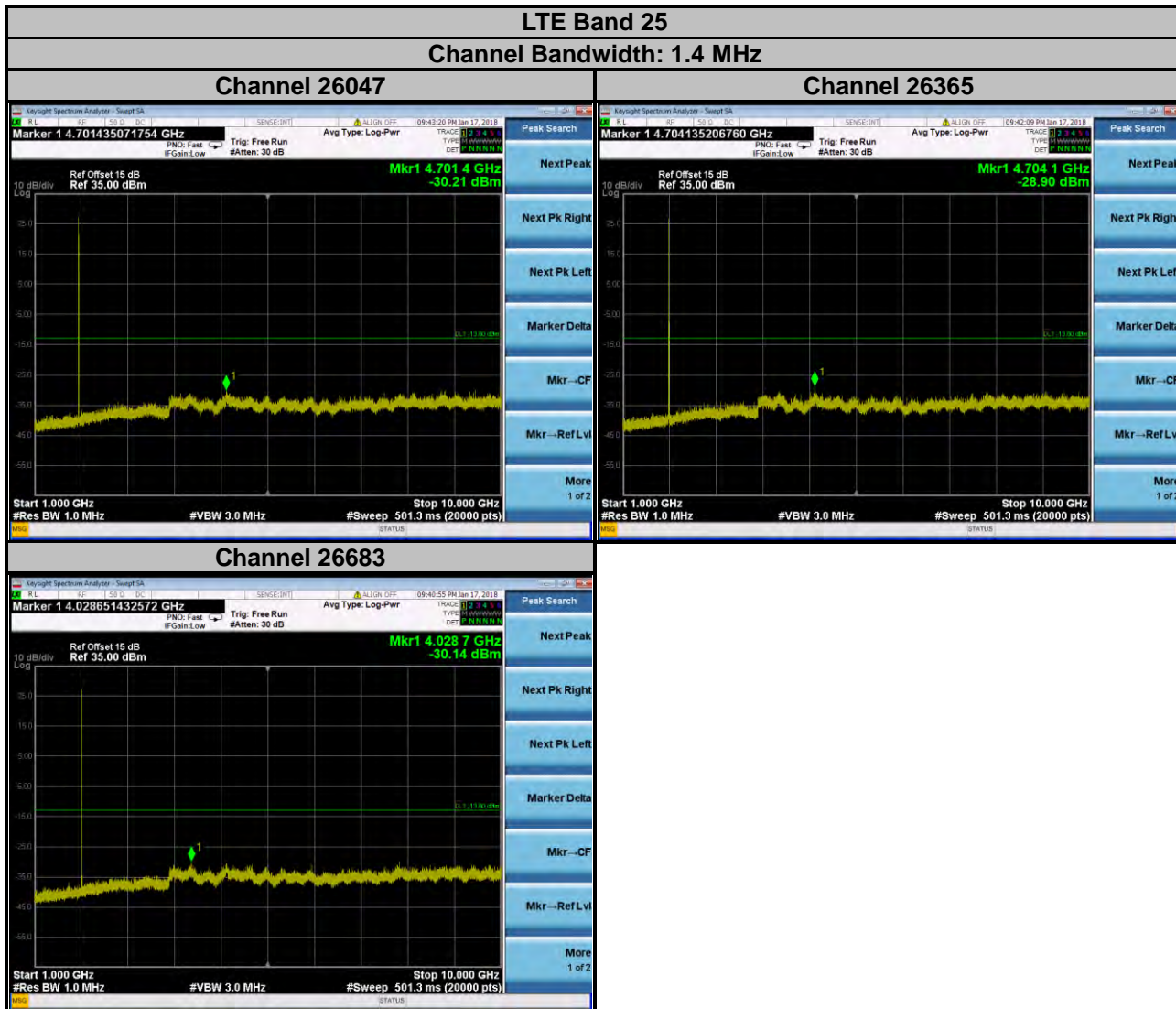
Channel 26365



Channel 26590

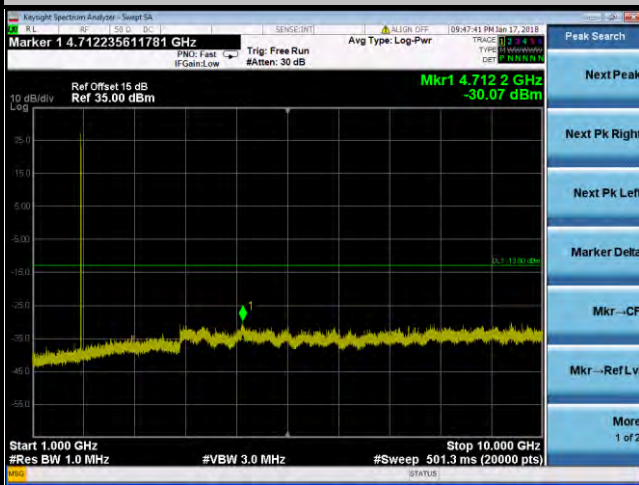


1GHz ~ 10GHz

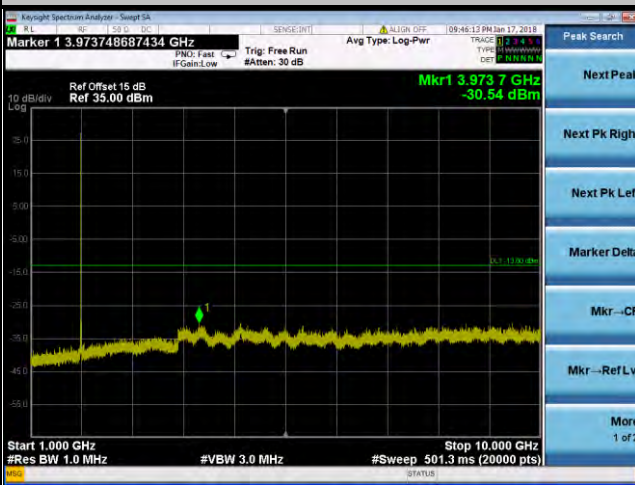


LTE Band 25
Channel Bandwidth: 3 MHz

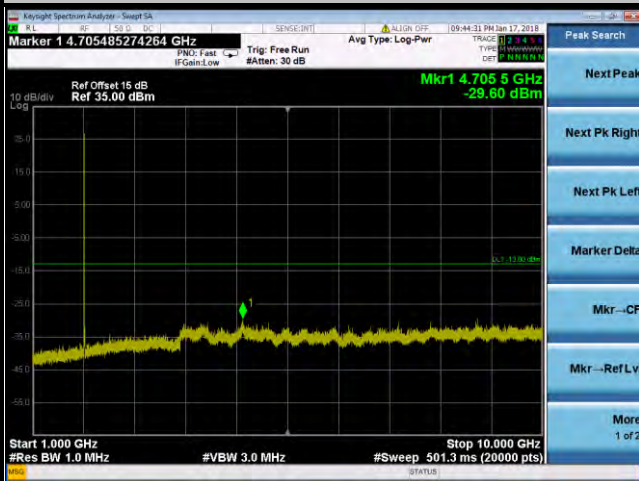
Channel 26055



Channel 26365

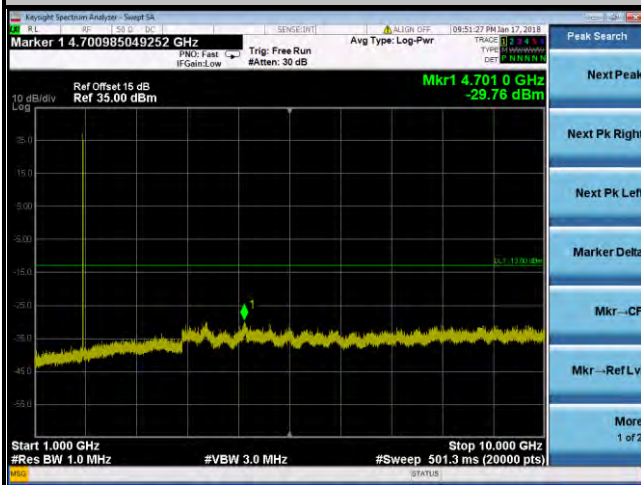


Channel 26675

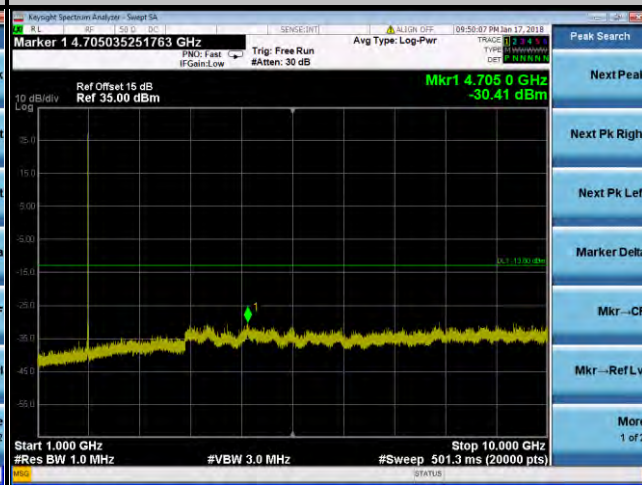


LTE Band 25
Channel Bandwidth: 5 MHz

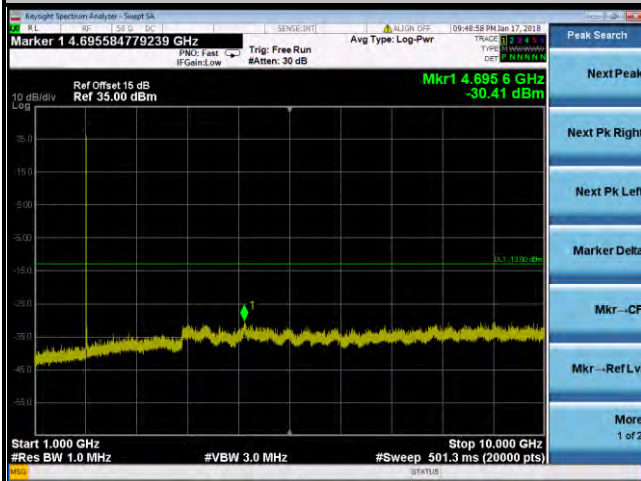
Channel 26065



Channel 26365

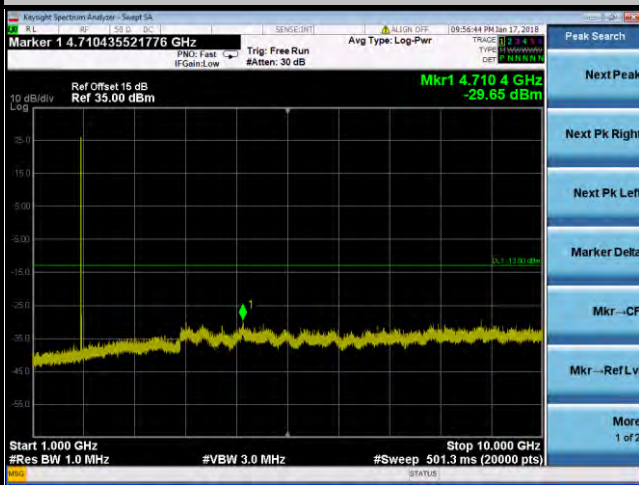


Channel 26665

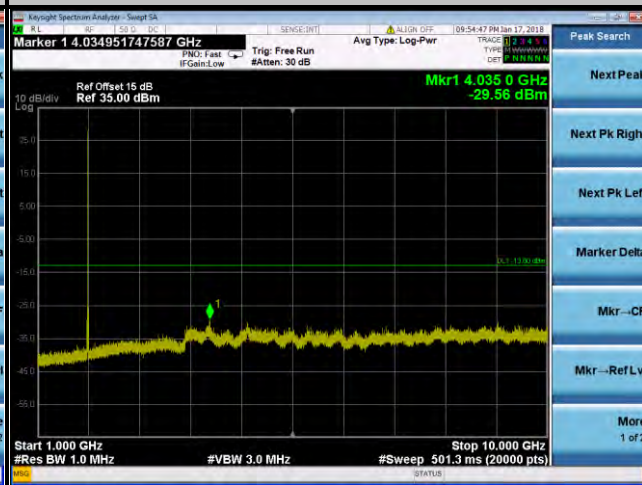


LTE Band 25
Channel Bandwidth: 10 MHz

Channel 26090



Channel 26365

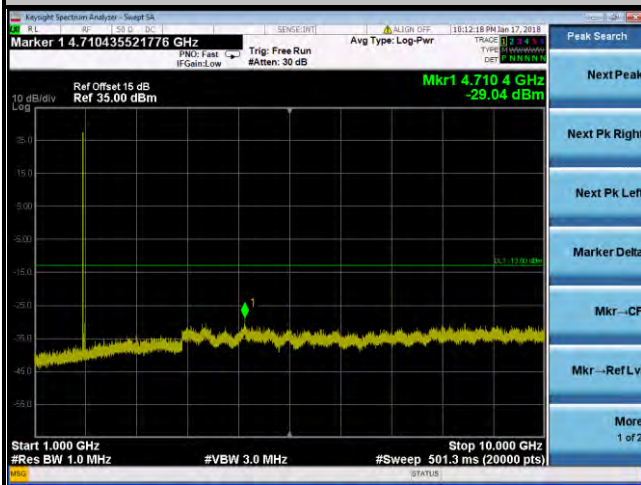


Channel 26640

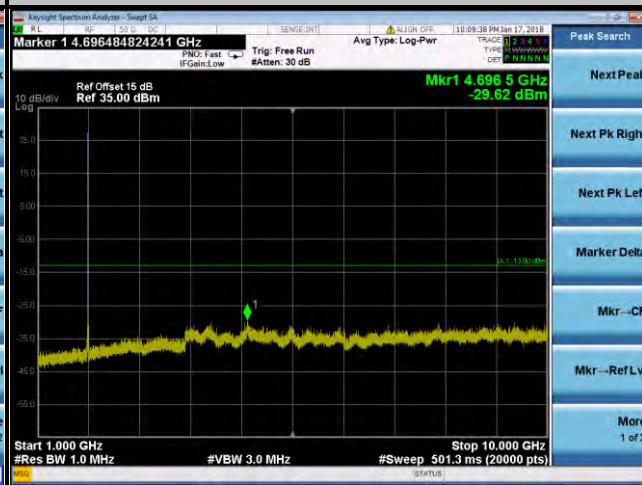


LTE Band 25
Channel Bandwidth: 15 MHz

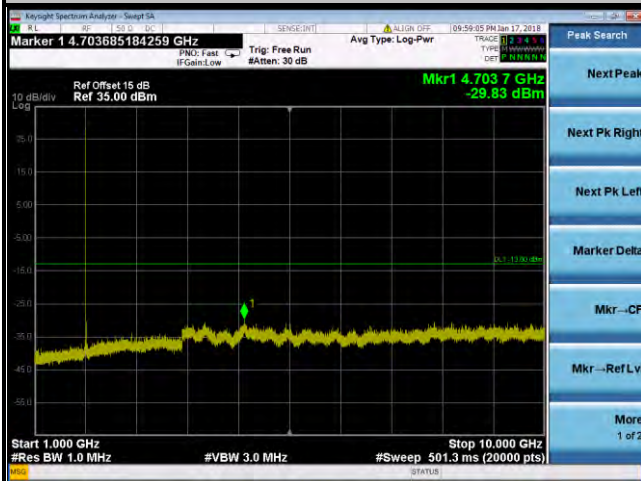
Channel 26115



Channel 26365

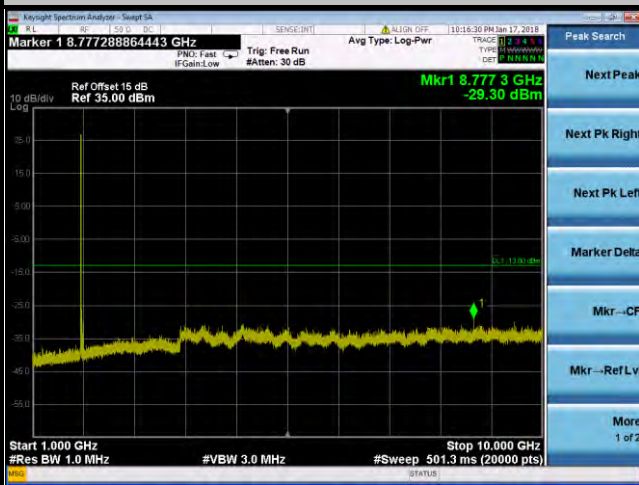


Channel 26615

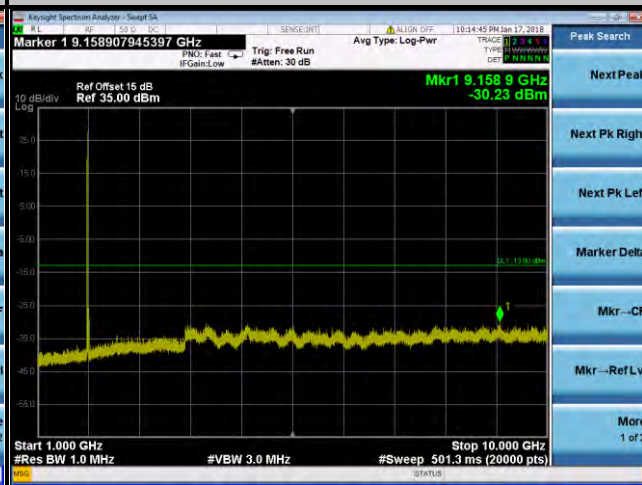


LTE Band 25
Channel Bandwidth: 20 MHz

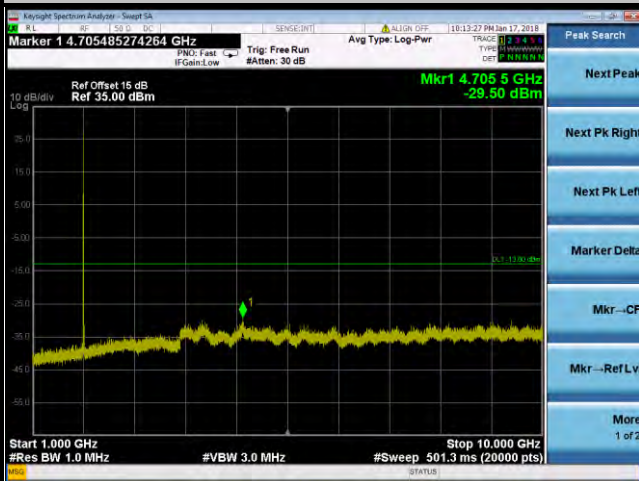
Channel 26140



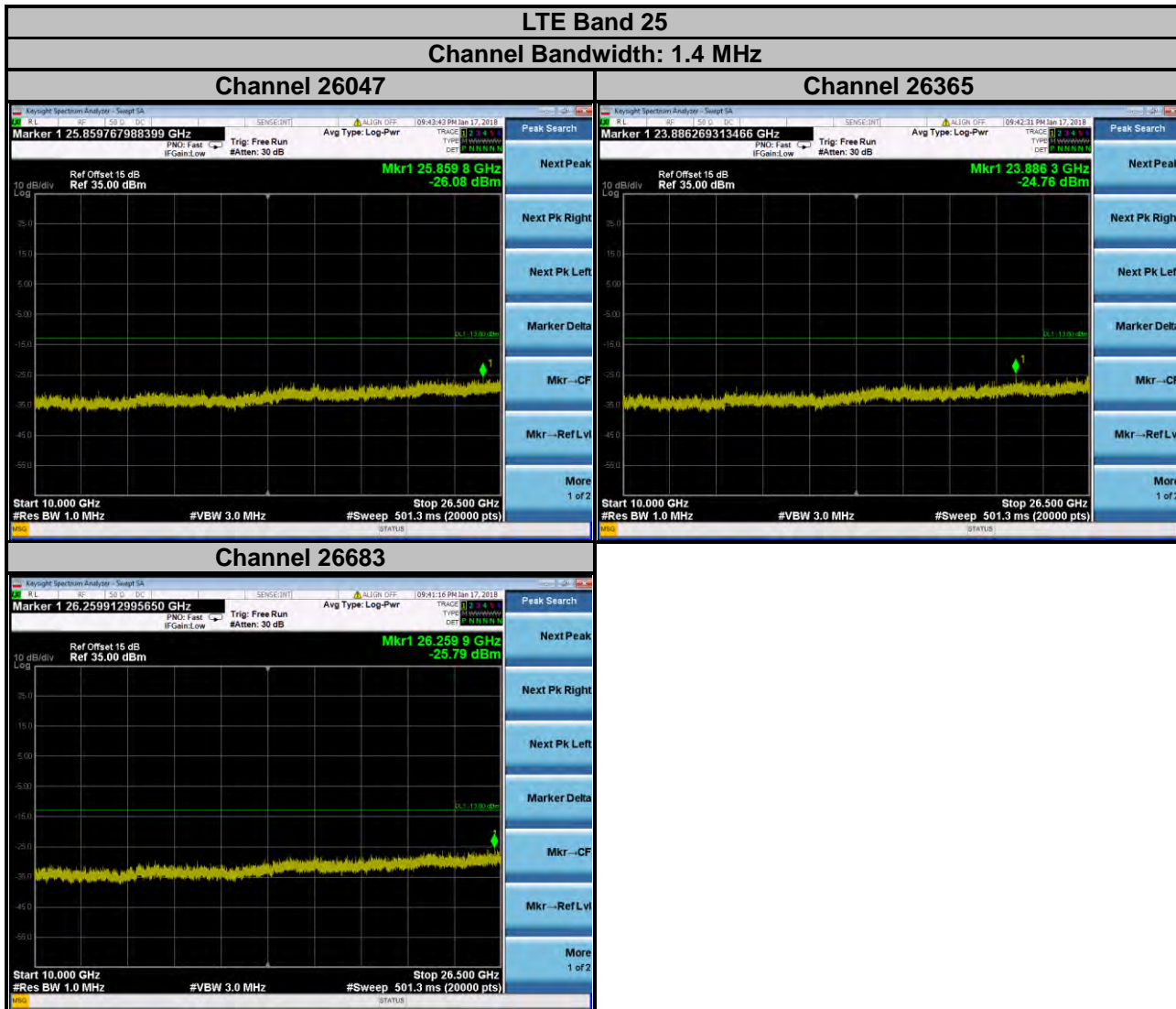
Channel 26365



Channel 26590

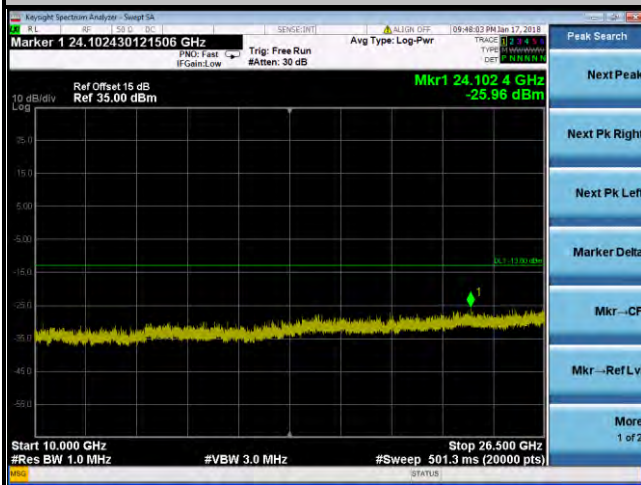


10GHz ~ 26.5GHz

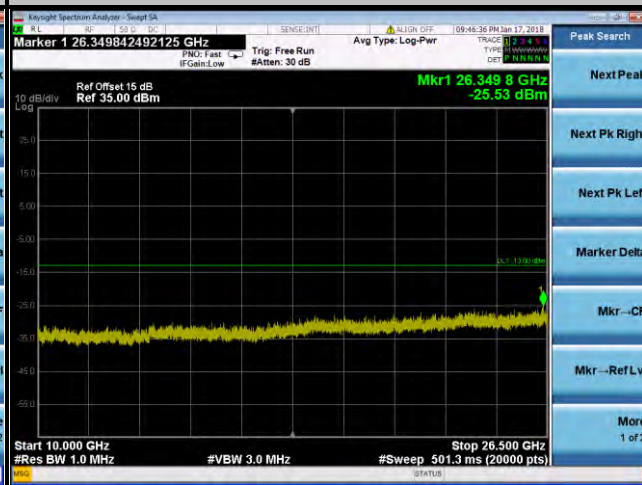


LTE Band 25
Channel Bandwidth: 3 MHz

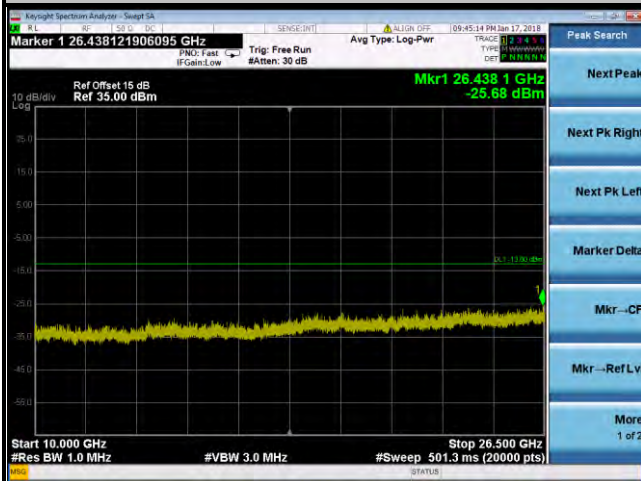
Channel 26055



Channel 26365

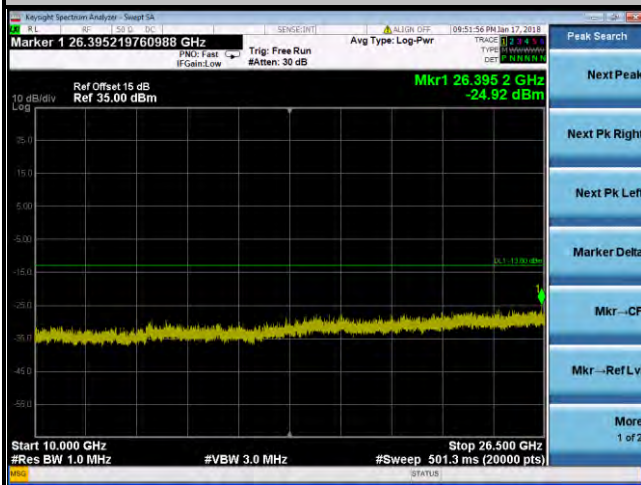


Channel 26675

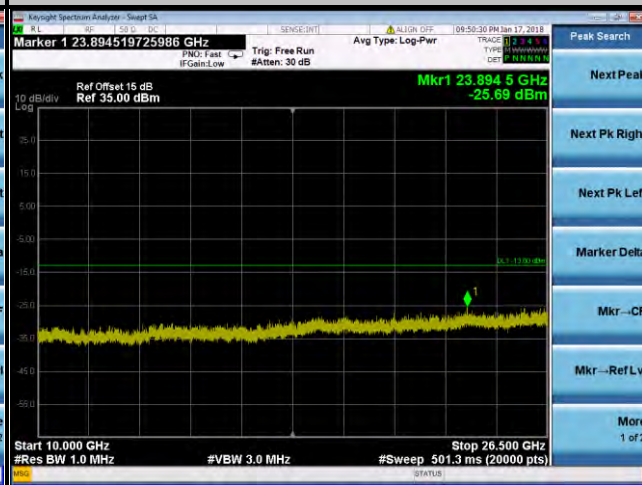


LTE Band 25
Channel Bandwidth: 5 MHz

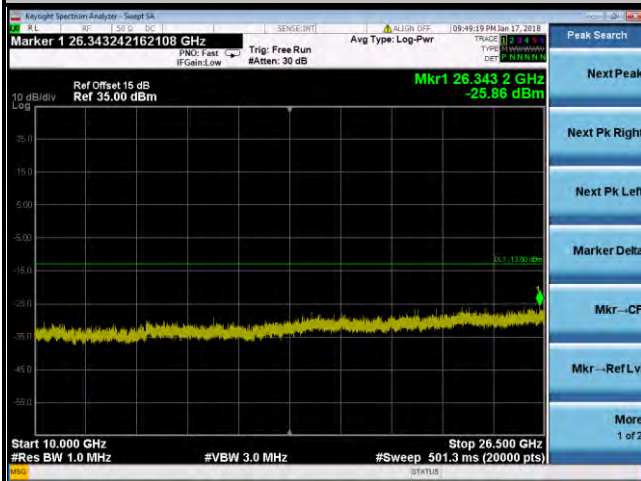
Channel 26065



Channel 26365

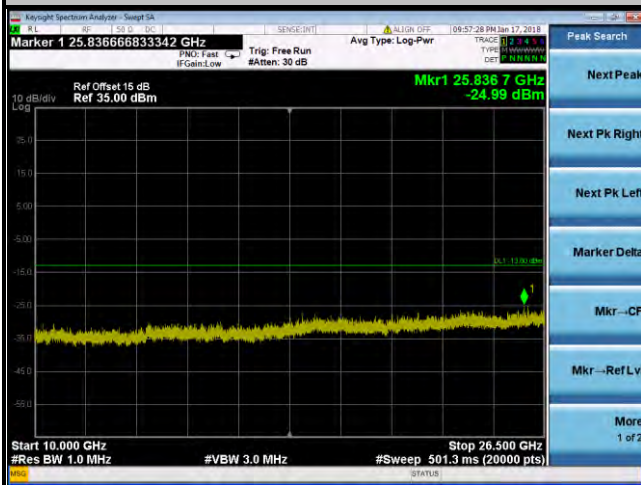


Channel 26665

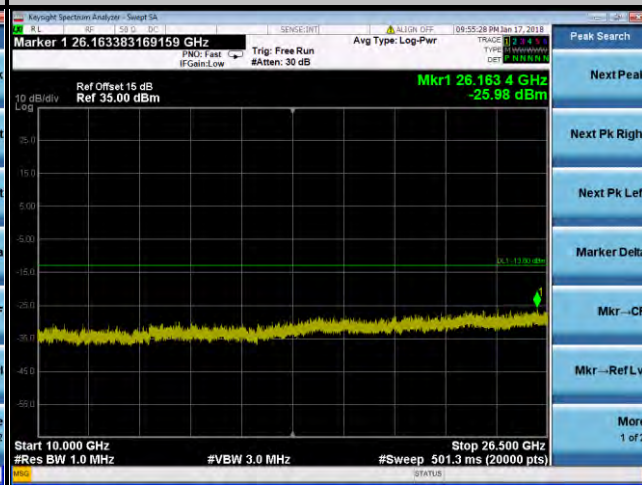


LTE Band 25
Channel Bandwidth: 10 MHz

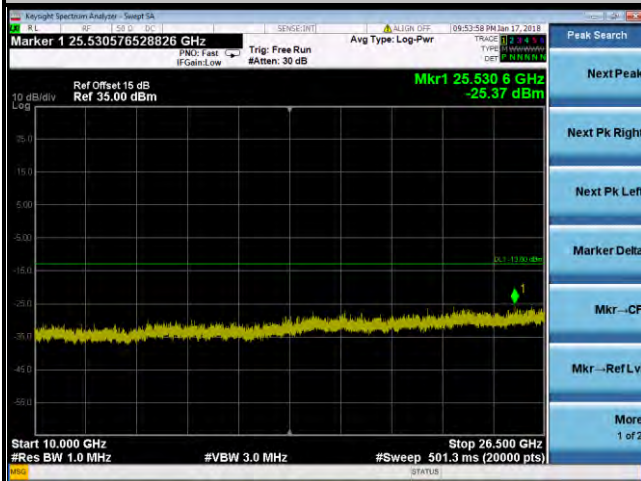
Channel 26090



Channel 26365

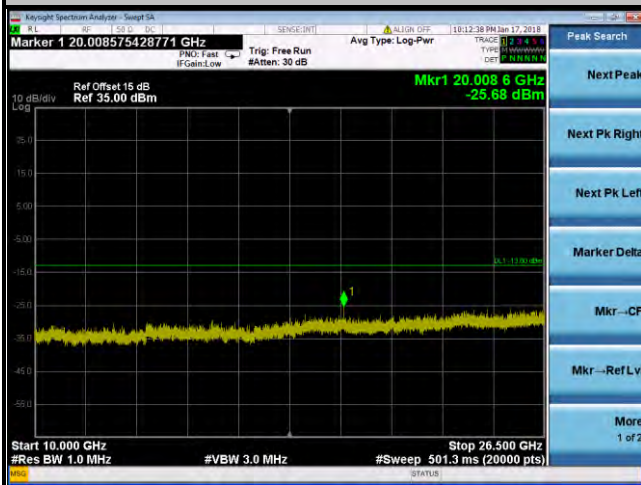


Channel 26640

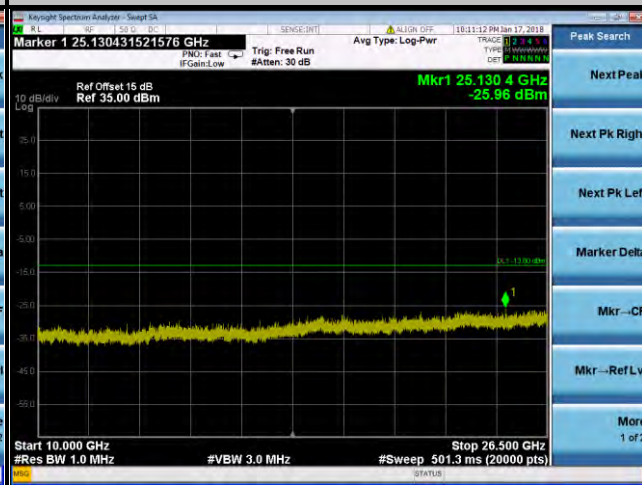


LTE Band 25
Channel Bandwidth: 15 MHz

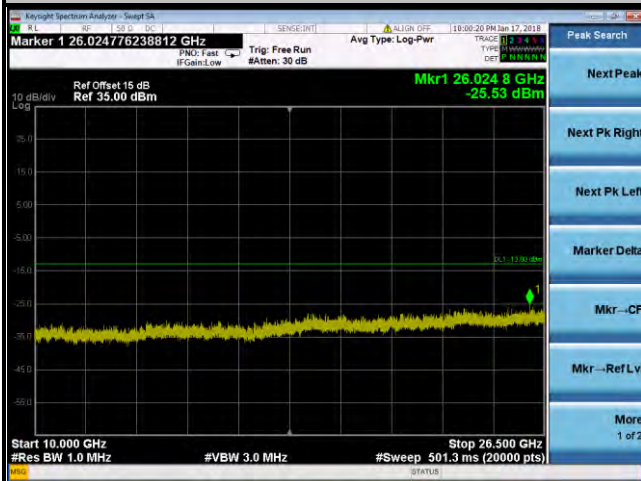
Channel 26115



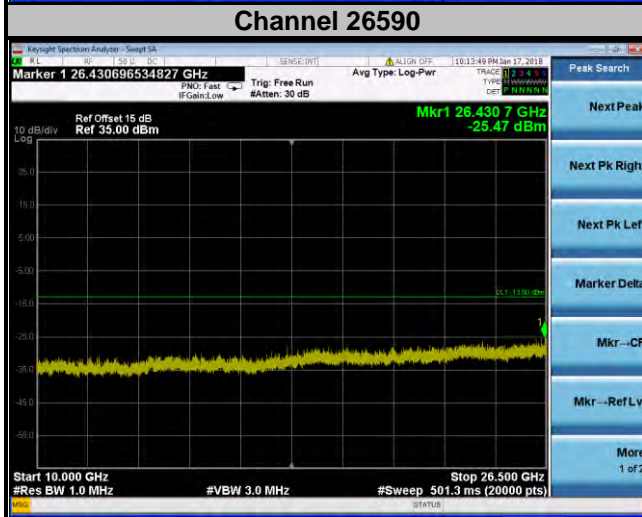
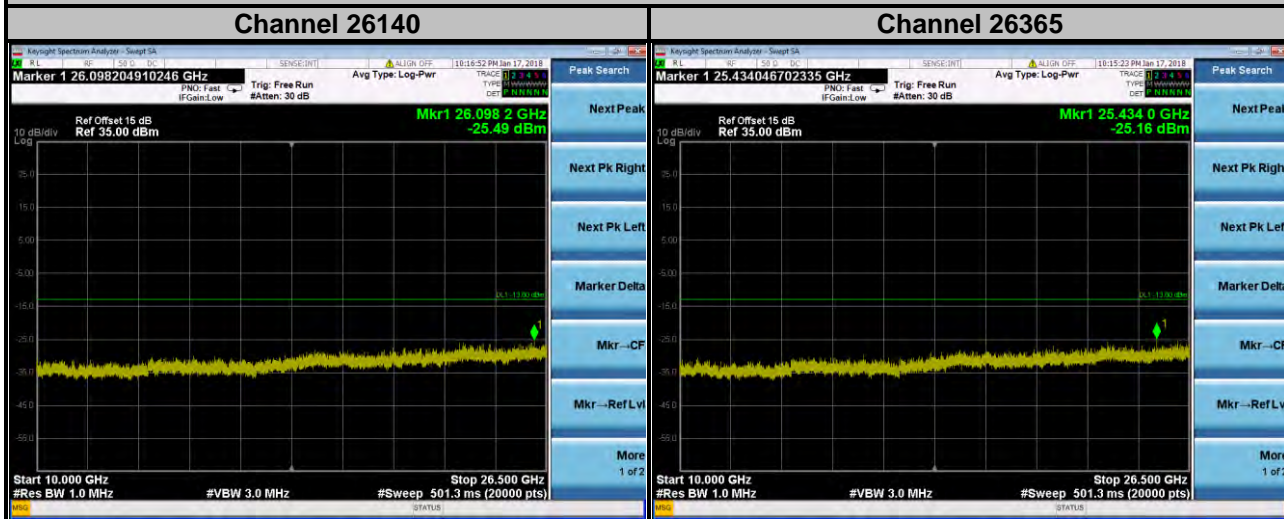
Channel 26365



Channel 26615



LTE Band 25
Channel Bandwidth: 20 MHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

4.7.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

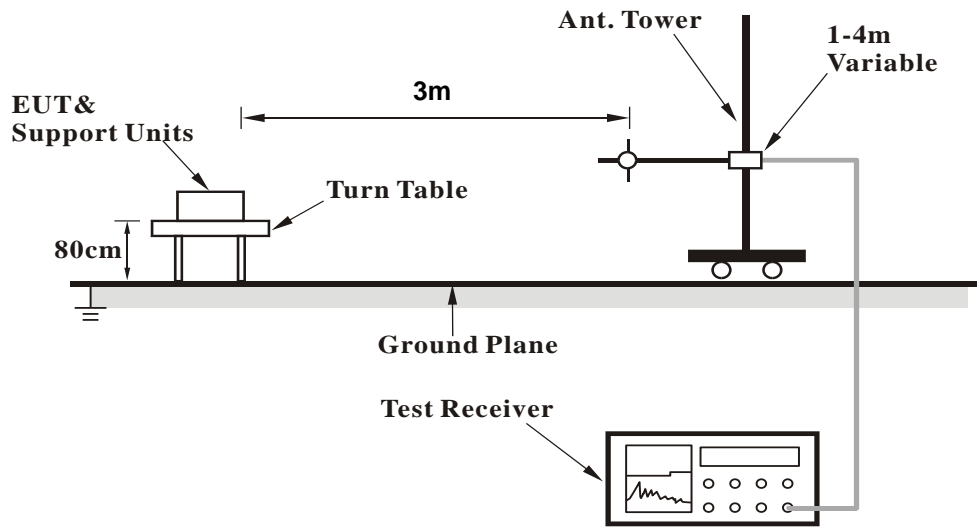
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.7.3 Deviation from Test Standard

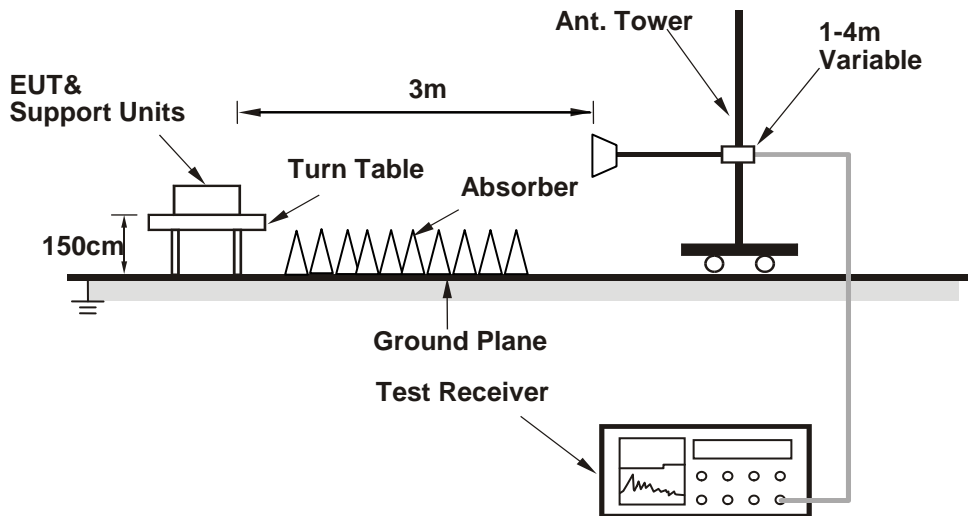
No deviation.

4.7.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 Test Results

GSM:

Low Channel

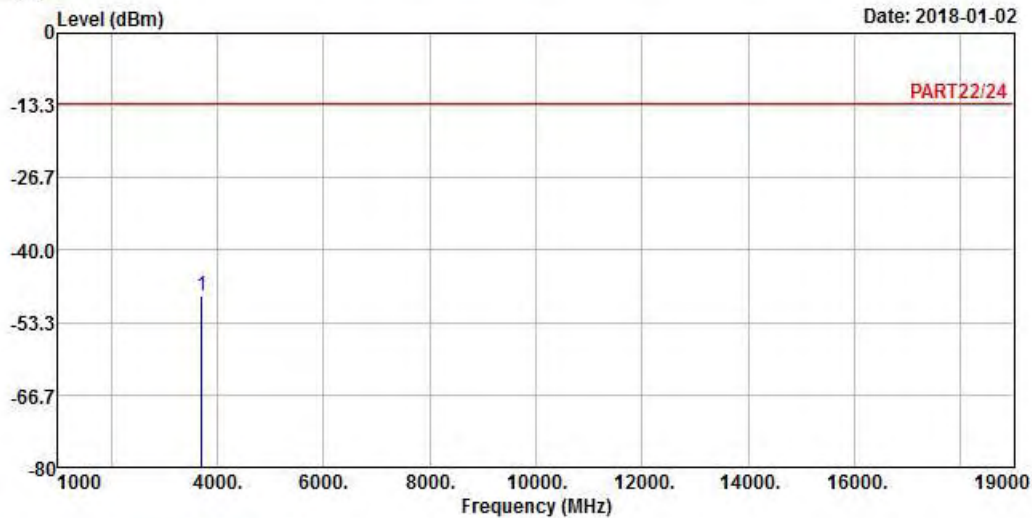


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A D T

Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : PCS 1900 Link_L-CH
 Tested by: Getaz Yang

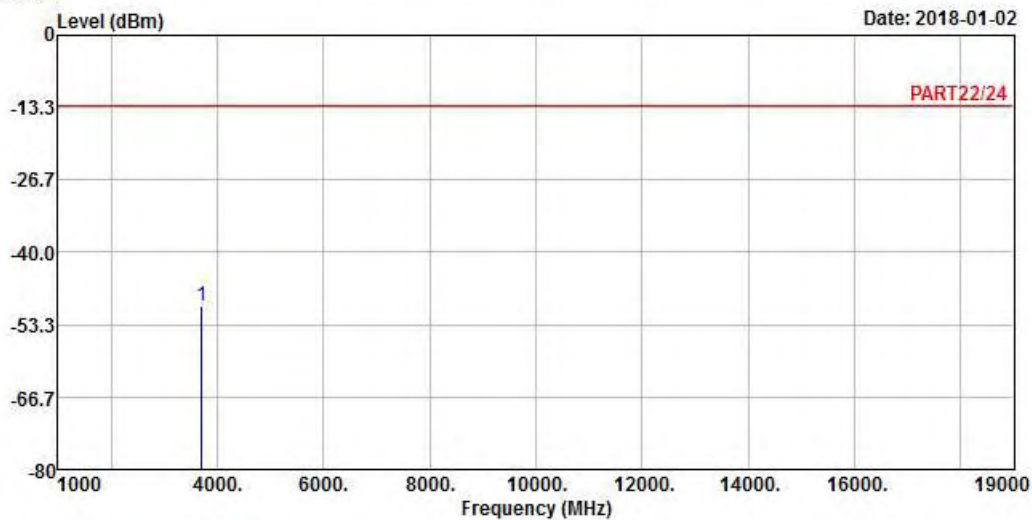
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-48.50	-40.33	-13.00	-35.50	-8.17	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : PCS 1900 Link_L-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-49.81	-41.64	-13.00	-36.81	-8.17	Peak

Middle Channel

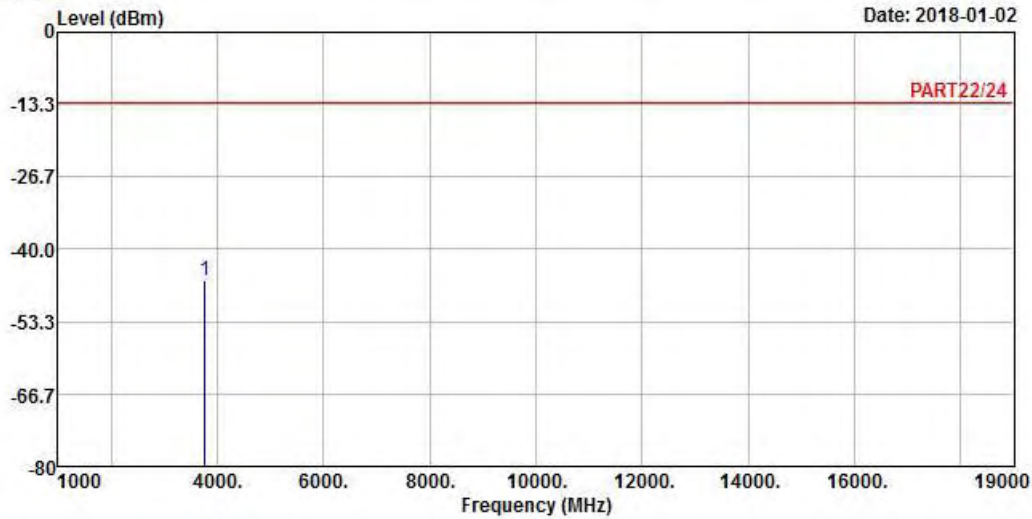


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Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : PCS 1900 Link_M-CH
 Tested by: Getaz Yang

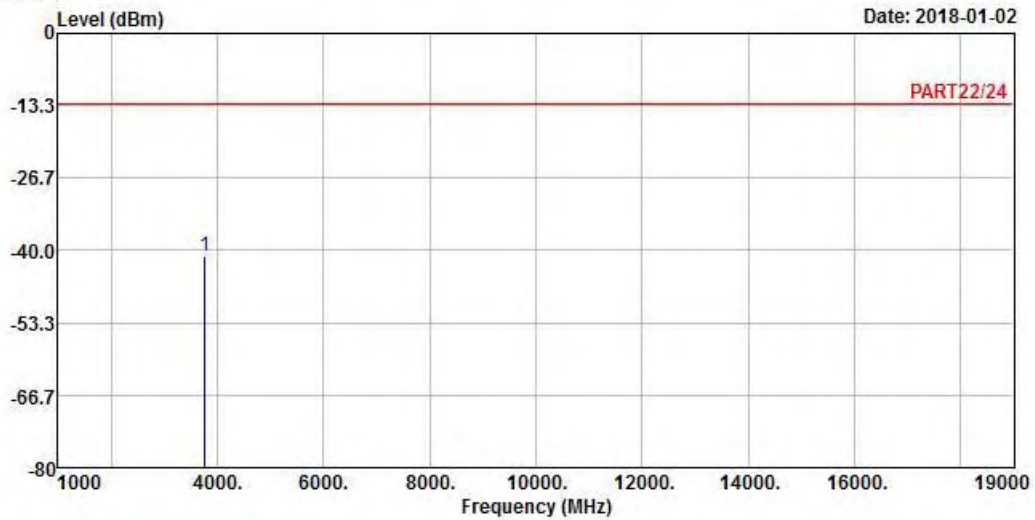
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-45.88	-37.82	-13.00	-32.88	-8.06	Peak



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Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : PCS 1900 Link_M-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-40.96	-32.90	-13.00	-27.96	-8.06	Peak

High Channel

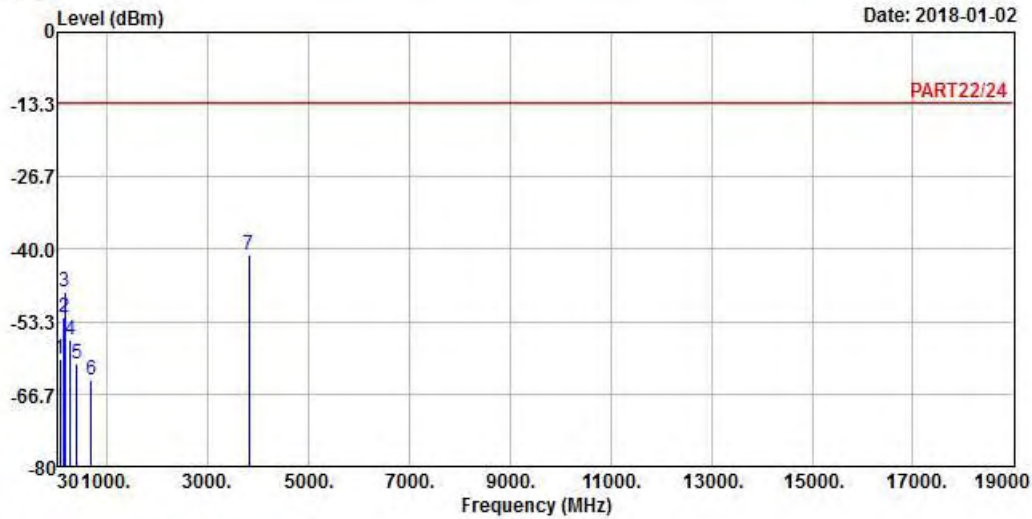


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Data: 7

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : PCS 1900 Link_H-CH
 Tested by: Getaz Yang

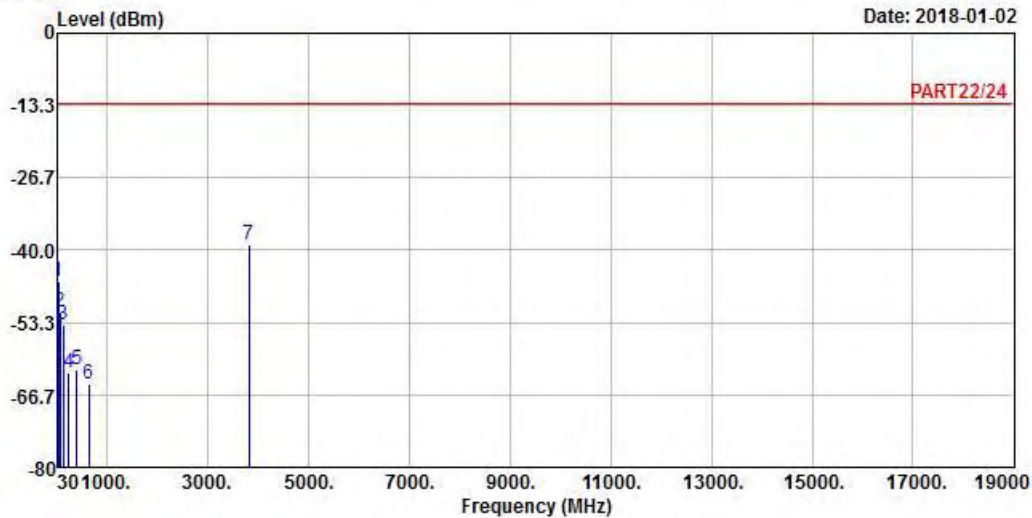
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	60.07	-60.13	-52.47	-13.00	-47.13	-7.66	Peak
2	142.52	-52.44	-44.08	-13.00	-39.44	-8.36	Peak
3	156.10	-47.85	-41.91	-13.00	-34.85	-5.94	Peak
4	277.35	-56.77	-50.22	-13.00	-43.77	-6.55	Peak
5	399.57	-61.09	-55.14	-13.00	-48.09	-5.95	Peak
6	683.78	-64.05	-63.69	-13.00	-51.05	-0.36	Peak
7 pp	3819.60	-41.14	-33.46	-13.00	-28.14	-7.68	Peak



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Data: 8



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : PCS 1900 Link_H-CH
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	41.64	-45.85	-45.44	-13.00	-32.85	-0.41	Peak
2	70.74	-51.49	-42.87	-13.00	-38.49	-8.62	Peak
3	136.70	-53.71	-45.05	-13.00	-40.71	-8.66	Peak
4	246.31	-62.50	-56.35	-13.00	-49.50	-6.15	Peak
5	400.54	-62.08	-56.14	-13.00	-49.08	-5.94	Peak
6	644.01	-64.65	-63.78	-13.00	-51.65	-0.87	Peak
7 pp	3819.60	-39.02	-31.34	-13.00	-26.02	-7.68	Peak

EDGE:
Low Channel

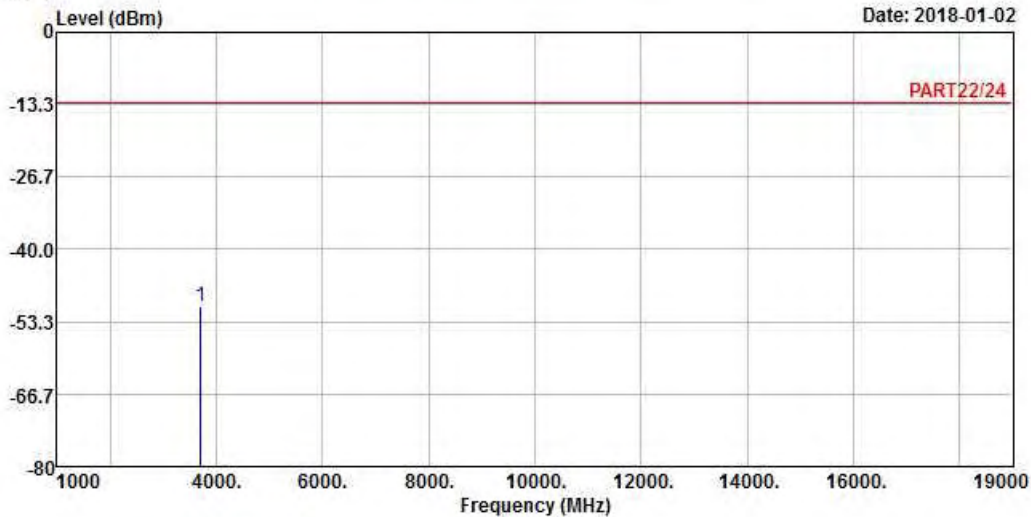


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Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remark : EDGE 1900 Link_L-CH
Tested by: Getaz Yang

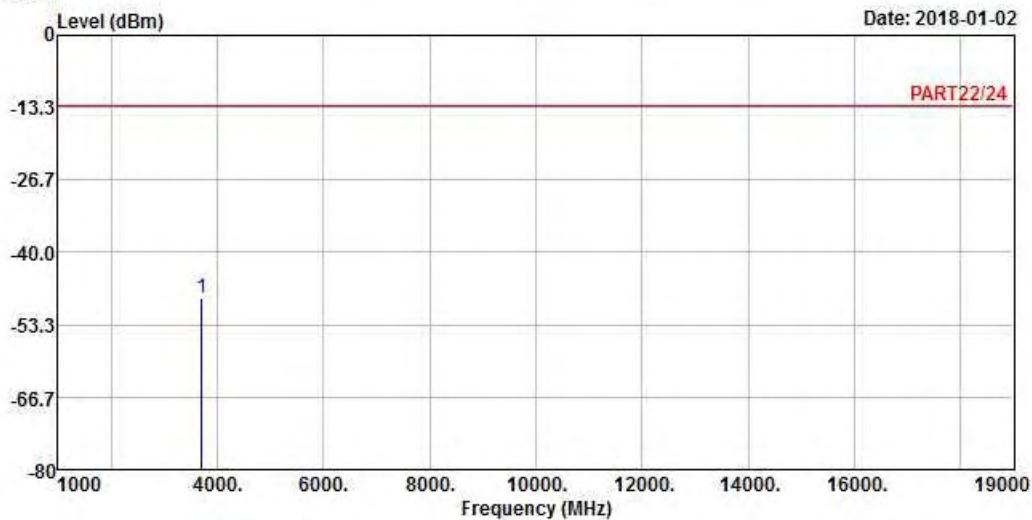
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-50.56	-42.39	-13.00	-37.56	-8.17	Peak



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Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : EDGE 1900 Link_L-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3700.40	-48.55	-40.38	-13.00	-35.55	-8.17	Peak

Middle Channel

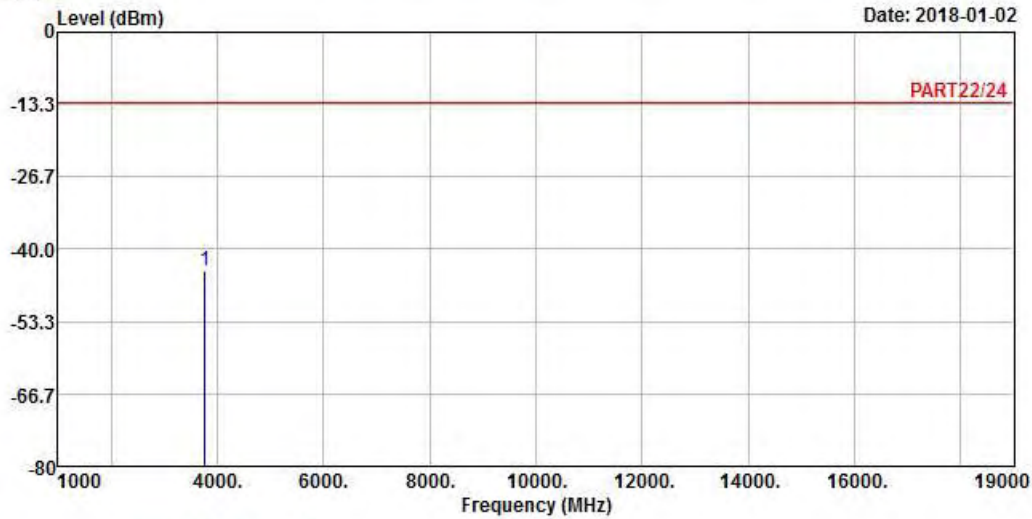


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Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : EDGE 1900 Link_M-CH
 Tested by: Getaz Yang

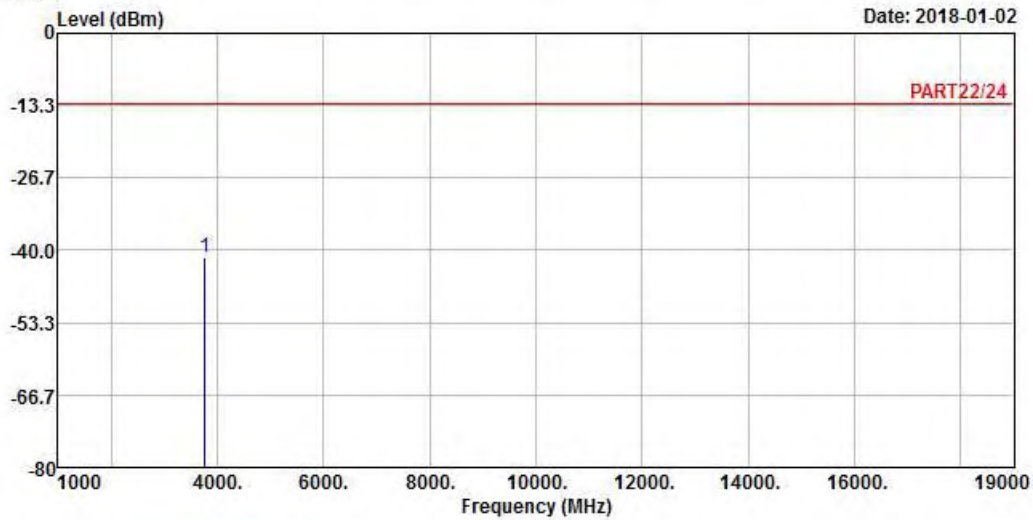
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-43.90	-35.84	-13.00	-30.90	-8.06	Peak



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Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : EDGE 1900 Link_M-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-41.47	-33.41	-13.00	-28.47	-8.06	Peak

High Channel

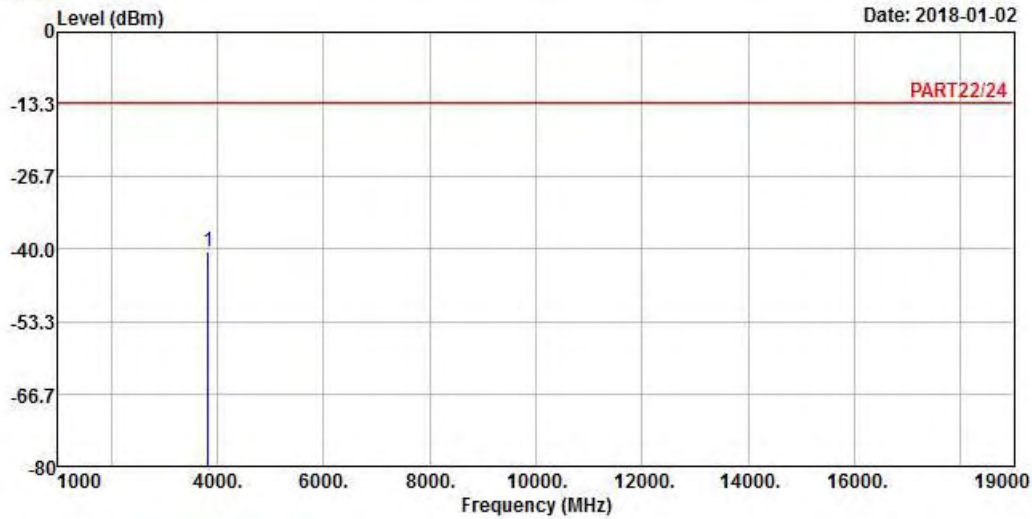


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A D T

Data: 5

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : EDGE 1900 Link_H-CH
 Tested by: Getaz Yang

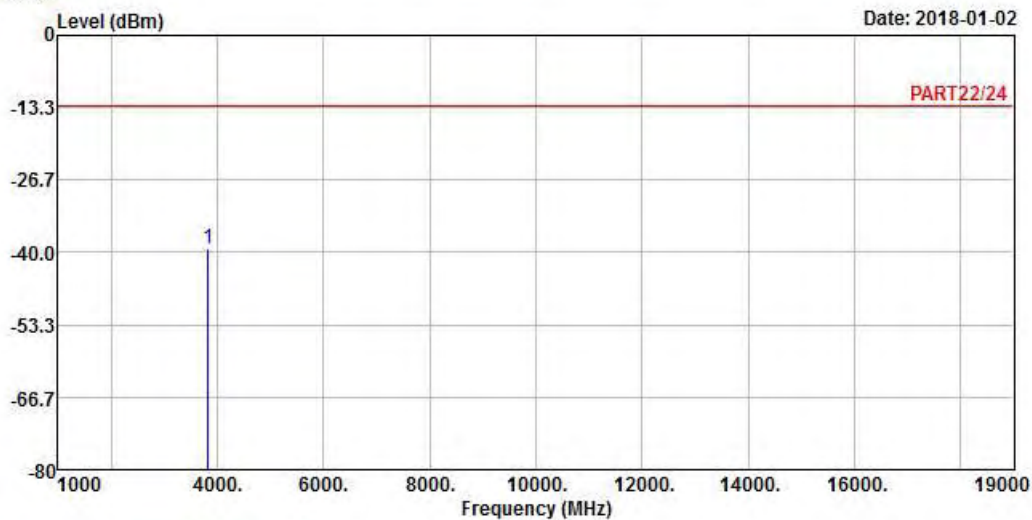
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3819.60	-40.35	-32.67	-13.00	-27.35	-7.68	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : EDGE 1900 Link_H-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3819.60	-39.32	-31.64	-13.00	-26.32	-7.68	Peak

**WCDMA:
Low Channel**

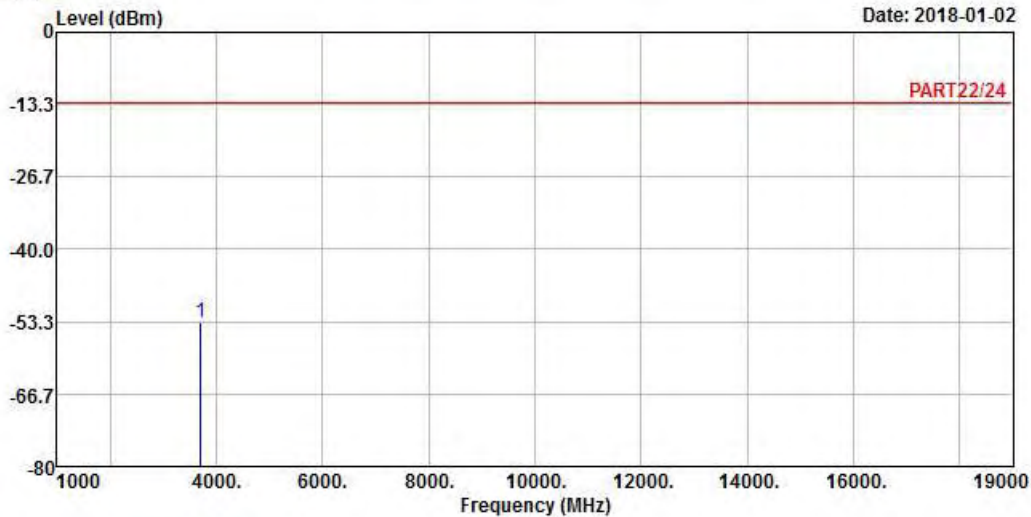


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Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : WCDMA Band 2 Link_L-CH
 Tested by: Jisyong Wang

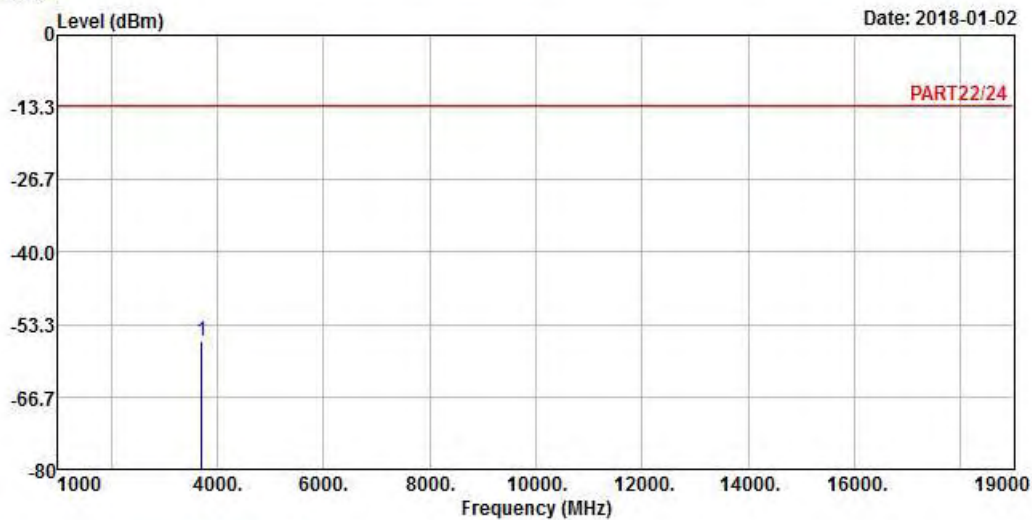
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-53.44	-45.27	-13.00	-40.44	-8.17	Peak



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Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : WCDMA Band 2 Link_L-CH
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3704.80	-56.30	-48.13	-13.00	-43.30	-8.17	Peak

Middle Channel

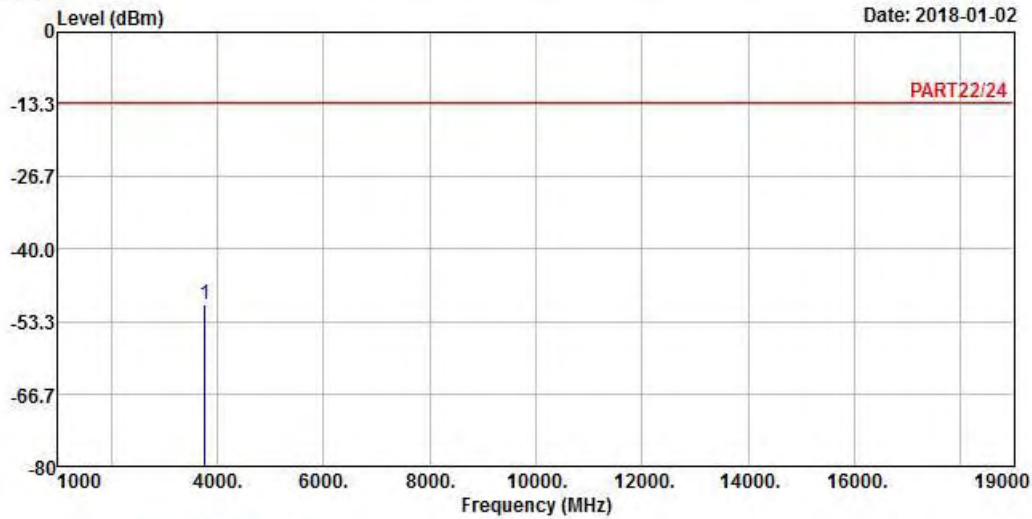


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Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : WCDMA Band 2 Link_M-CH
 Tested by: Jisyong Wang

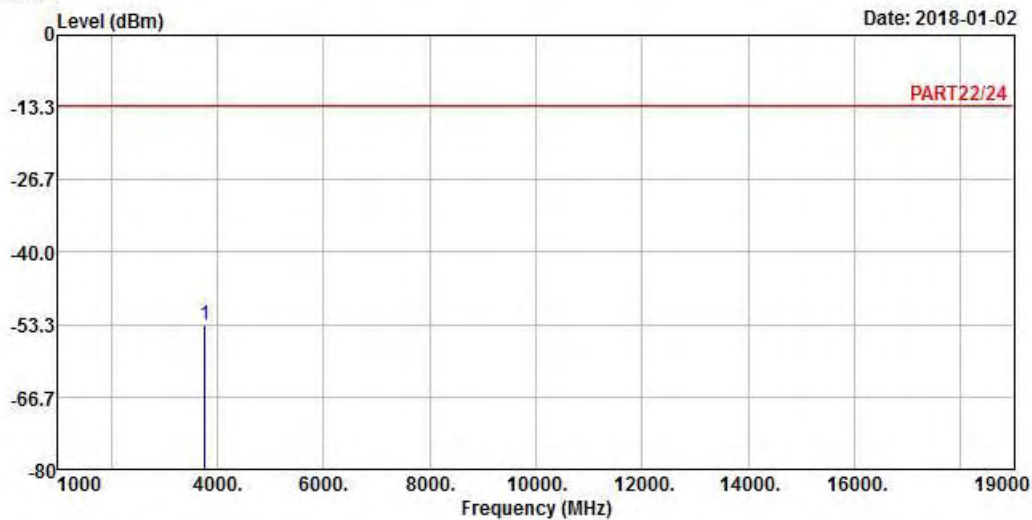
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-50.05	-41.99	-13.00	-37.05	-8.06	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : WCDMA Band 2 Link_M-CH
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-53.33	-45.27	-13.00	-40.33	-8.06	Peak

High Channel

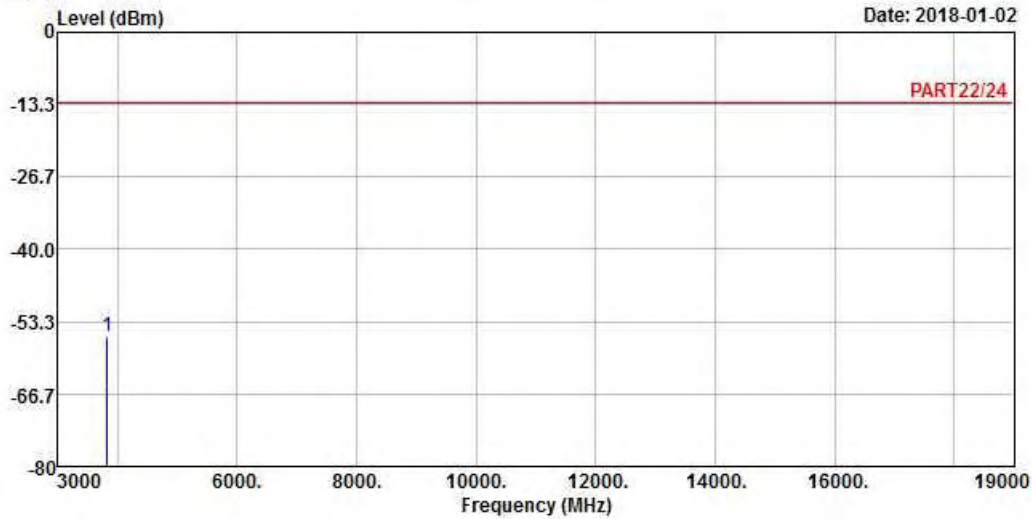


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : WCDMA Band 2 Link_H-CH
 Tested by: Jisyong Wang

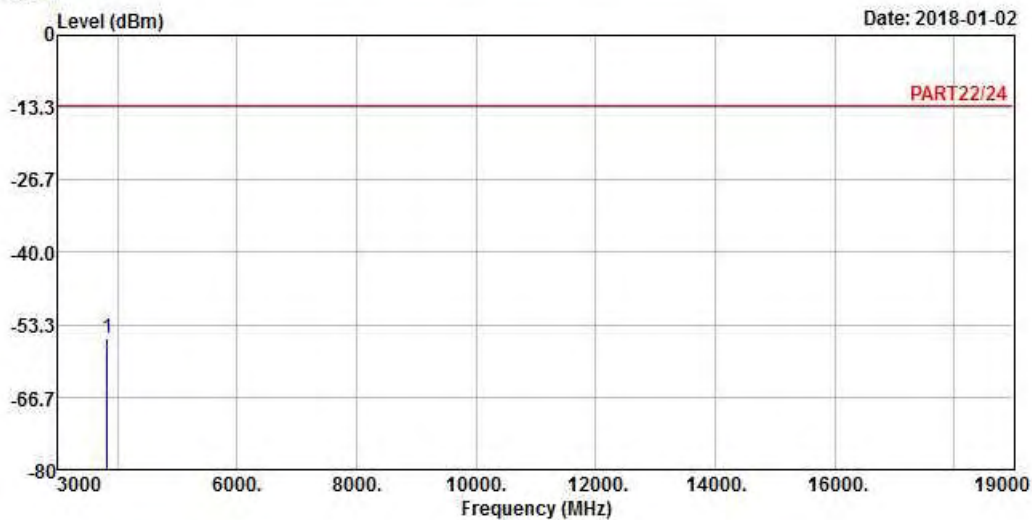
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.20	-56.16	-48.38	-13.00	-43.16	-7.78	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : WCDMA Band 2 Link_H-CH
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3815.20	-55.69	-47.91	-13.00	-42.69	-7.78	Peak

CDMA:
Low Channel

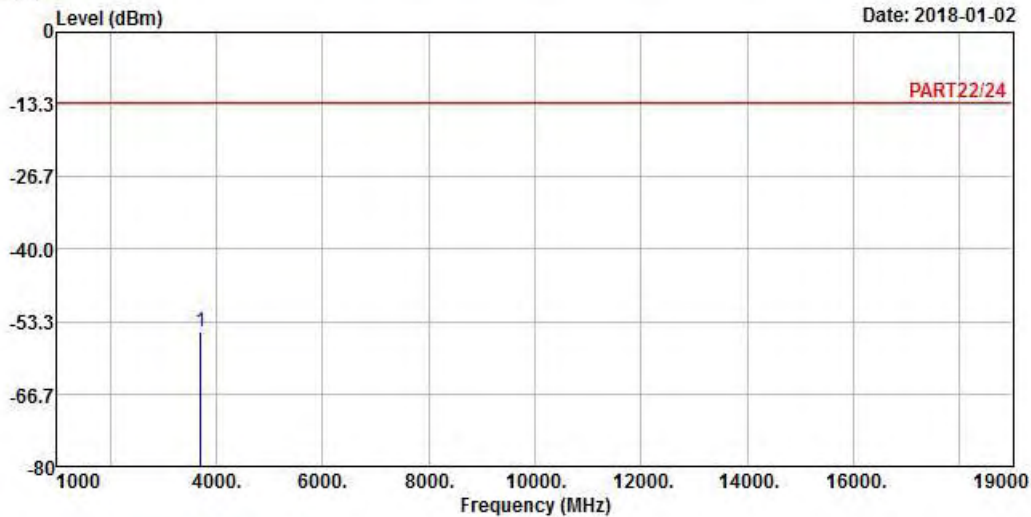


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : CDMA BC1 Link_L-CH
 Tested by: Getaz Yang

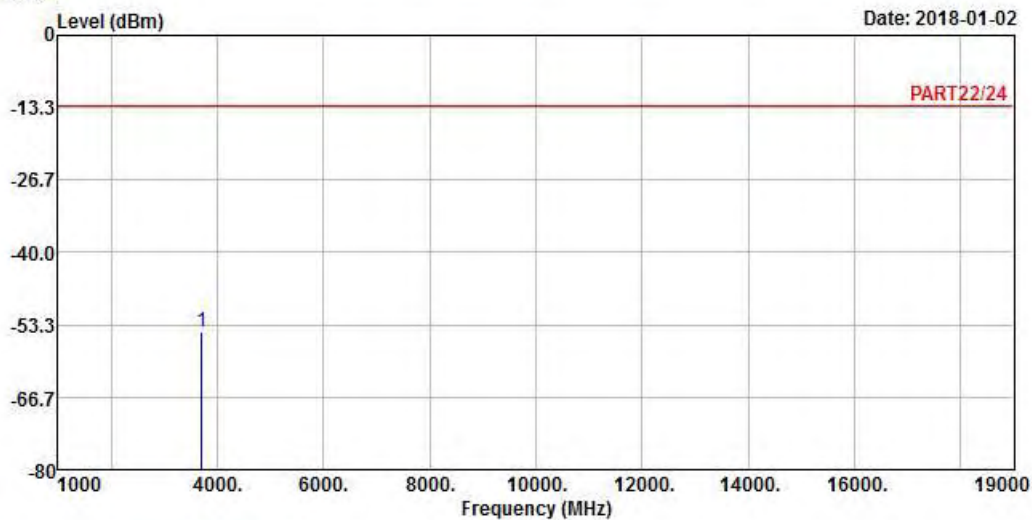
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3702.50	-55.19	-47.02	-13.00	-42.19	-8.17	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remark : CDMA BC1 Link_L-CH

Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3702.50	-54.52	-46.35	-13.00	-41.52	-8.17	Peak

Middle Channel

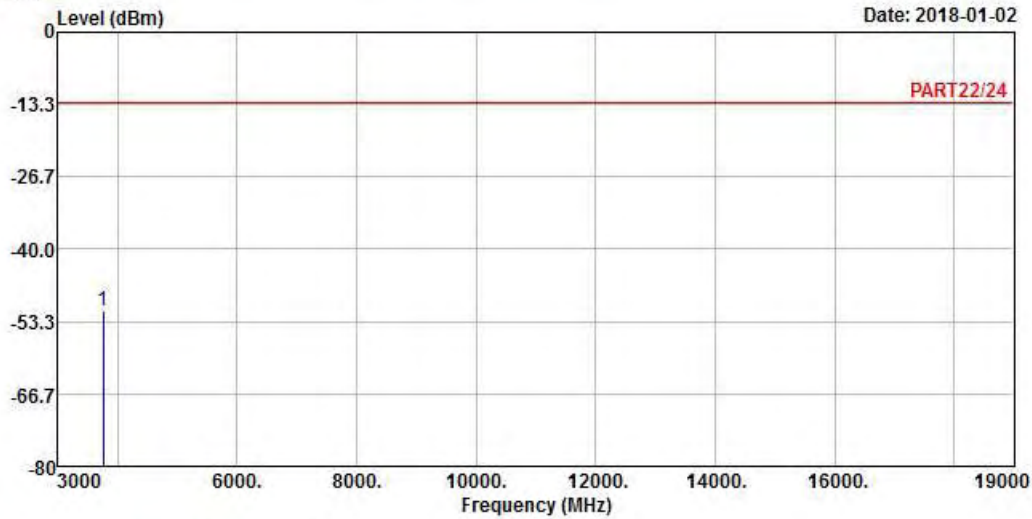


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : CDMA BC1 Link_M-CH
 Tested by: Getaz Yang

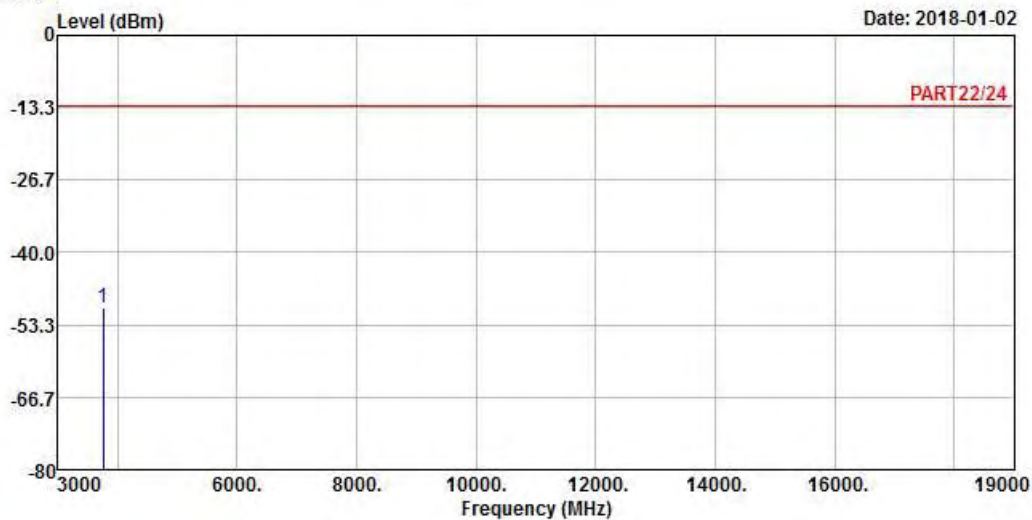
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3760.00	-51.34	-43.28	-13.00	-38.34	-8.06	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remark : CDMA BC1 Link_M-CH

Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	pp 3760.00	-50.06	-42.00	-13.00	-37.06	-8.06	Peak

High Channel

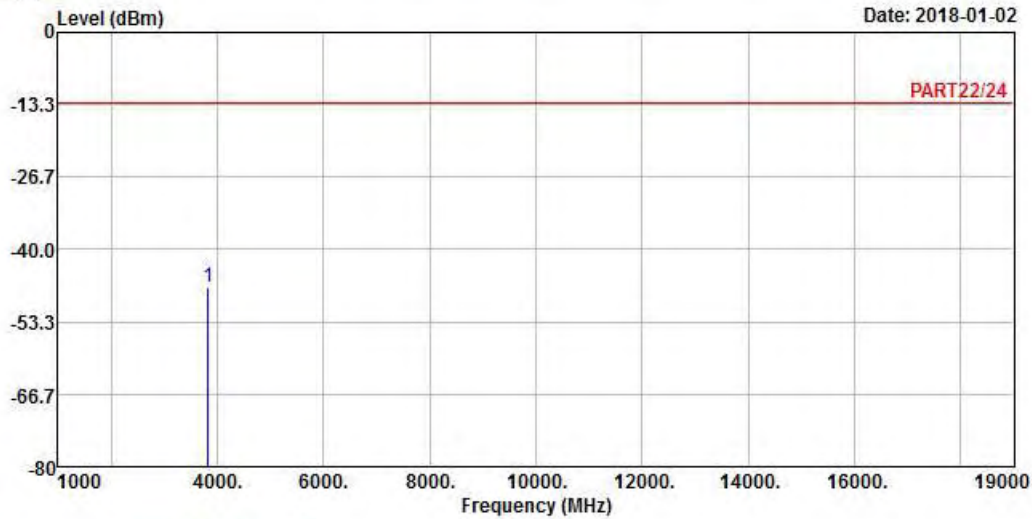


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2018-01-02



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : CDMA BC1 Link_H-CH
 Tested by: Getaz Yang

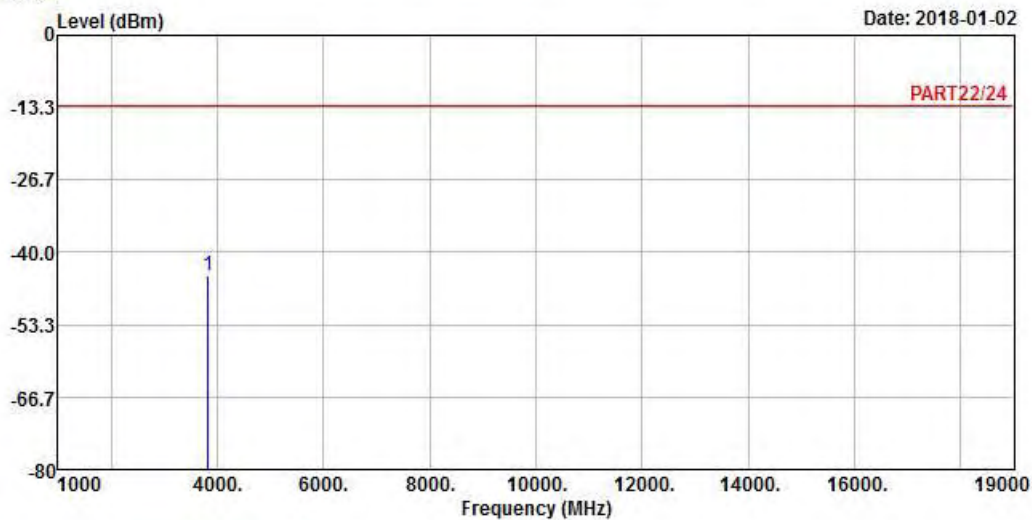
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3817.50	-46.81	-39.13	-13.00	-33.81	-7.68	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART22/24 VERTICAL

Remark : CDMA BC1 Link_H-CH

Tested by: Getaz Yang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3817.50	-44.33	-36.65	-13.00	-31.33	-7.68	Peak

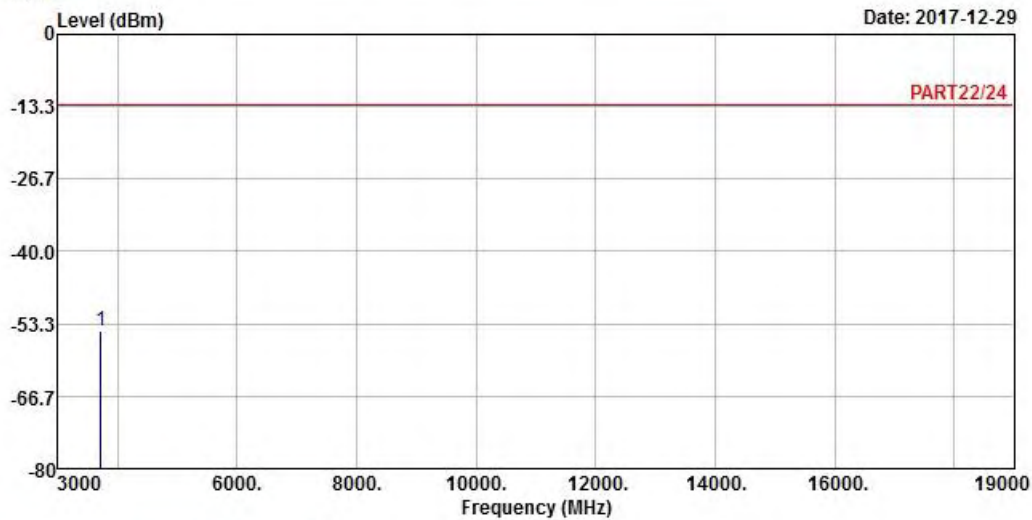
LTE Band 2
 Channel Bandwidth: 20 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 2 QPSK_20M Link_L.-CH
 Tested by: Jisyong Wang

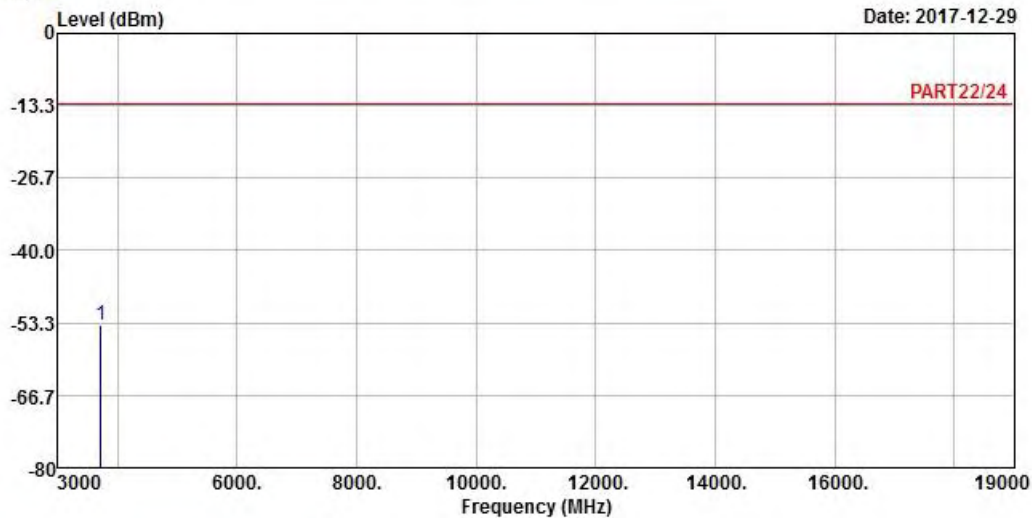
	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3720.00	-54.69	-46.56	-13.00	-41.69	-8.13 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : LTE Band 2 QPSK_20M Link_L.-CH
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-53.85	-45.72	-13.00	-40.85	-8.13	Peak

Middle Channel

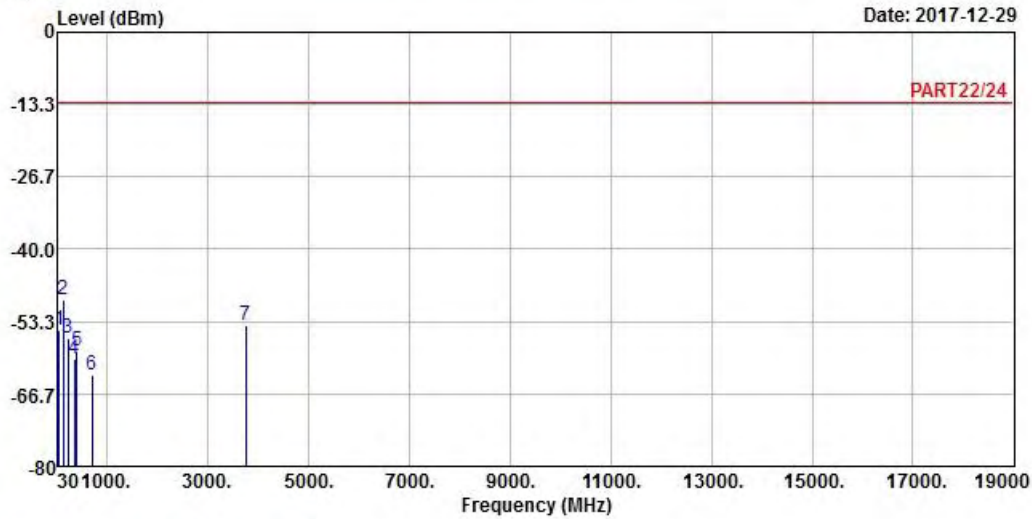


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7

Date: 2017-12-29



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 2 QPSK_20M Link_M-CH
 Tested by: Jisyong Wang

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1	42.96	-54.77	-53.83	-13.00	-41.77	-0.94 Peak
2 pp	137.73	-49.32	-40.66	-13.00	-36.32	-8.66 Peak
3	226.56	-56.27	-49.34	-13.00	-43.27	-6.93 Peak
4	350.40	-60.25	-54.01	-13.00	-47.25	-6.24 Peak
5	400.10	-58.82	-52.88	-13.00	-45.82	-5.94 Peak
6	699.70	-63.15	-63.04	-13.00	-50.15	-0.11 Peak
7	3760.00	-54.01	-45.95	-13.00	-41.01	-8.06 Peak

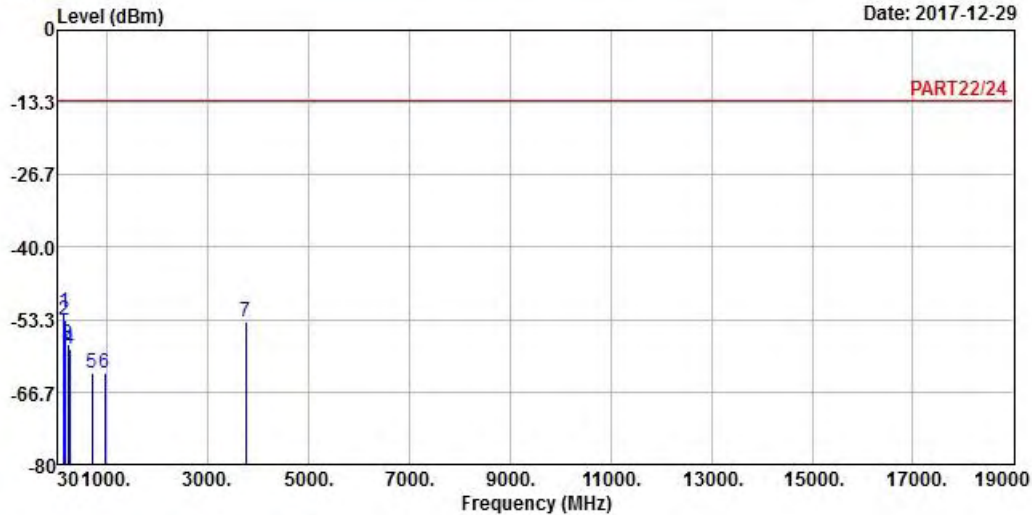


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2017-12-29



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : LTE Band 2 QPSK_20M Link_M-CH
 Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	153.66	-52.07	-45.31	-13.00	-39.07	-6.76	Peak
2	162.30	-53.42	-48.44	-13.00	-40.42	-4.98	Peak
3	233.31	-57.91	-51.25	-13.00	-44.91	-6.66	Peak
4	264.09	-58.64	-52.37	-13.00	-45.64	-6.27	Peak
5	699.70	-63.15	-63.04	-13.00	-50.15	-0.11	Peak
6	960.80	-63.13	-65.34	-13.00	-50.13	2.21	Peak
7	3760.00	-53.76	-45.70	-13.00	-40.76	-8.06	Peak

High Channel

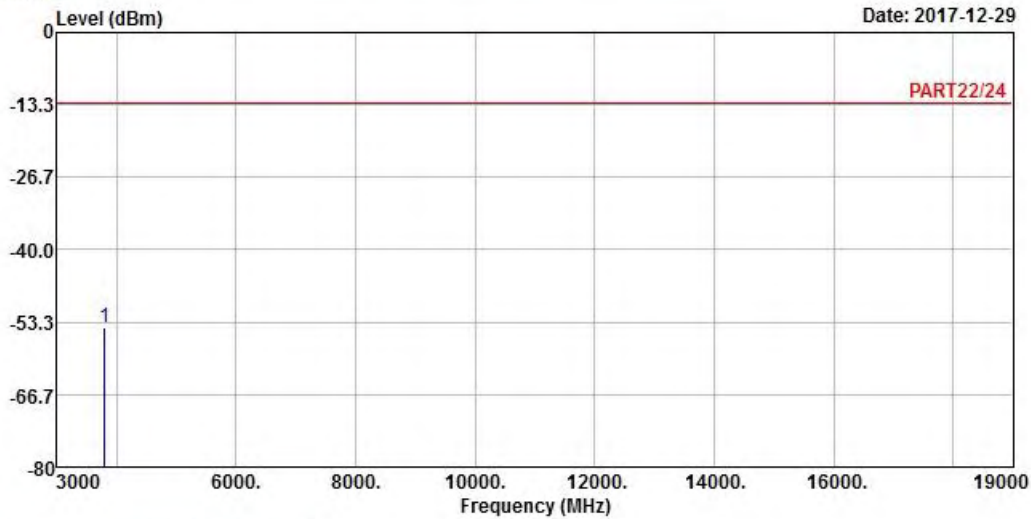


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2017-12-29



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 2 QPSK_20M Link_H-CH
 Tested by: Jisyong Wang

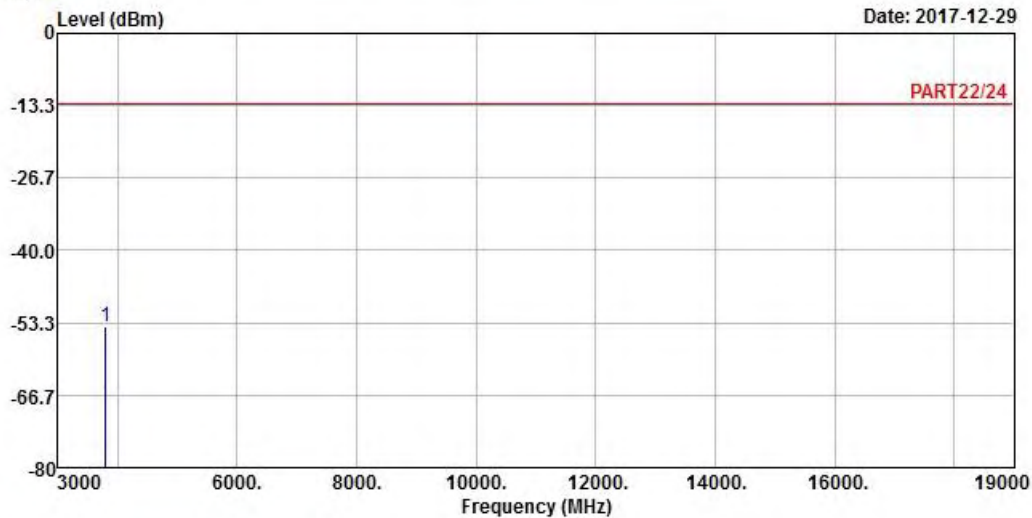
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3800.00	-54.17	-46.39	-13.00	-41.17	-7.78	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : LTE Band 2 QPSK_20M Link_H-CH
 Tested by: Jisyong Wang

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3800.00	-54.13	-46.35	-13.00	-41.13	-7.78	Peak

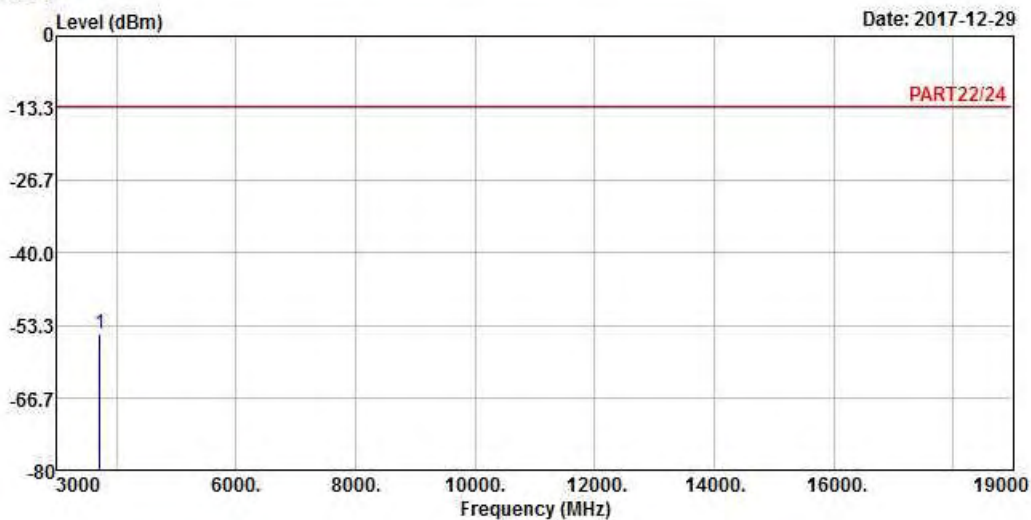
LTE Band 25
 Channel Bandwidth: 20 MHz / QPSK
 Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 25 QPSK_20M Link_L-CH
 Tested by: Jisyong Wang

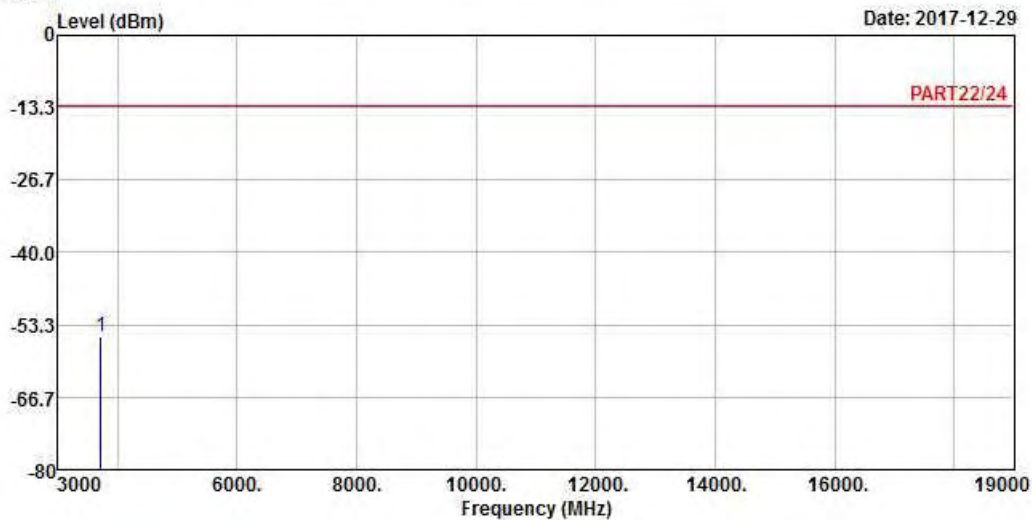
	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 3720.00	-55.03	-46.90	-13.00	-42.03	-8.13 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : LTE Band 25 QPSK_20M Link_L-CH
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3720.00	-55.64	-47.51	-13.00	-42.64	-8.13	Peak

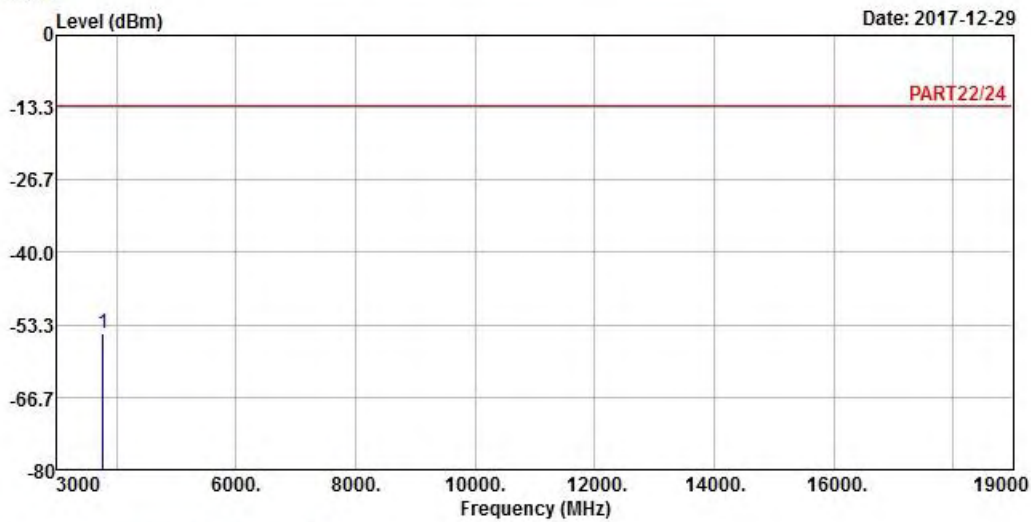
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remark : LTE Band 25 QPSK_20M Link_M-CH
 Tested by: Jisyong Wang

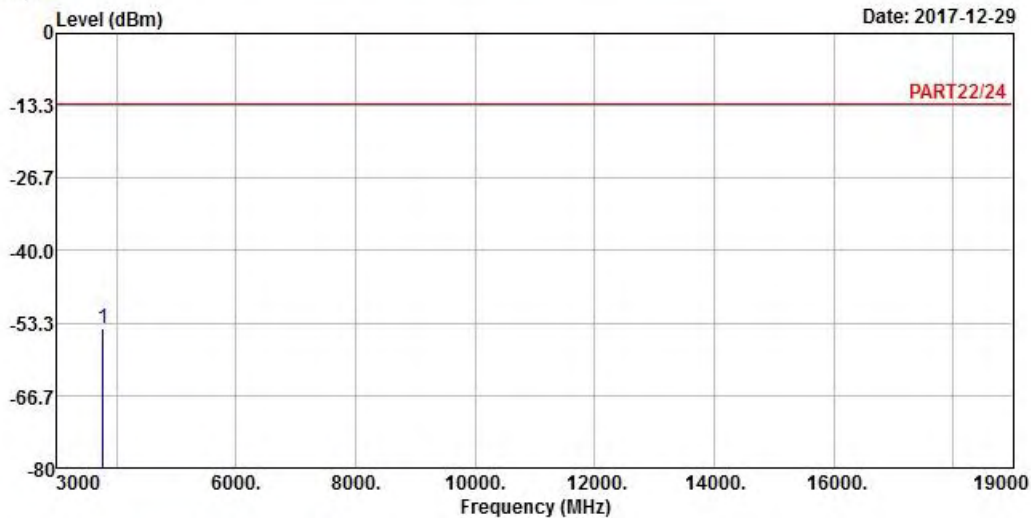
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-55.02	-47.05	-13.00	-42.02	-7.97	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remark : LTE Band 25 QPSK_20M Link_M-CH
 Tested by: Jisyong Wang

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3765.00	-54.35	-46.38	-13.00	-41.35	-7.97	Peak

High Channel

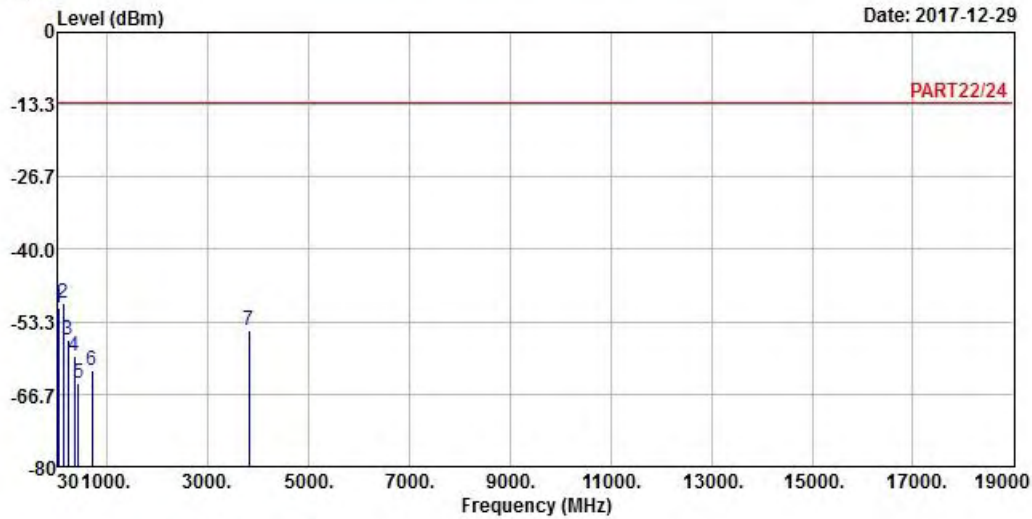


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7

Date: 2017-12-29



Site : 966 Chamber 5
 Condition: PART22/24 HORIZONTAL
 Remak : LTE Band 25 QPSK_20M Link_H-CH
 Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.69	-50.68	-49.74	-13.00	-37.68	-0.94	Peak
2	137.73	-49.75	-41.09	-13.00	-36.75	-8.66	Peak
3	226.83	-56.81	-49.88	-13.00	-43.81	-6.93	Peak
4	349.70	-59.71	-53.47	-13.00	-46.71	-6.24	Peak
5	426.70	-64.79	-59.06	-13.00	-51.79	-5.73	Peak
6	699.70	-62.30	-62.19	-13.00	-49.30	-0.11	Peak
7	3810.00	-54.92	-47.14	-13.00	-41.92	-7.78	Peak

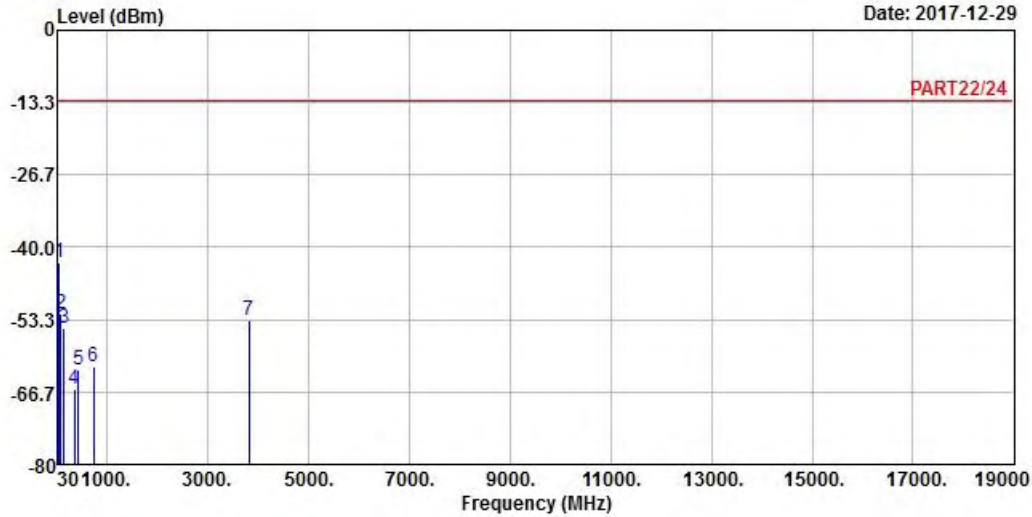


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2017-12-29



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : LTE Band 25 QPSK_20M Link_H-CH
 Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.50	-42.69	-41.22	-13.00	-29.69	-1.47	Peak
2	75.09	-52.28	-42.75	-13.00	-39.28	-9.53	Peak
3	138.54	-54.77	-46.11	-13.00	-41.77	-8.66	Peak
4	352.50	-66.17	-59.94	-13.00	-53.17	-6.23	Peak
5	424.60	-62.53	-56.78	-13.00	-49.53	-5.75	Peak
6	734.70	-61.98	-62.55	-13.00	-48.98	0.57	Peak
7	3810.00	-53.29	-45.51	-13.00	-40.29	-7.78	Peak

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

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Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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