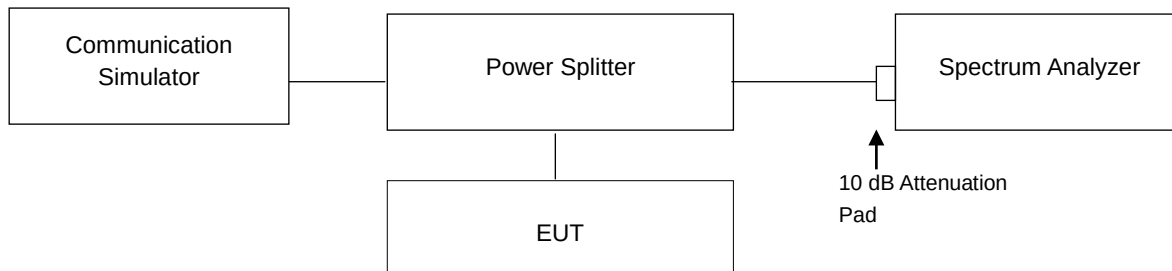


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 Test Setup



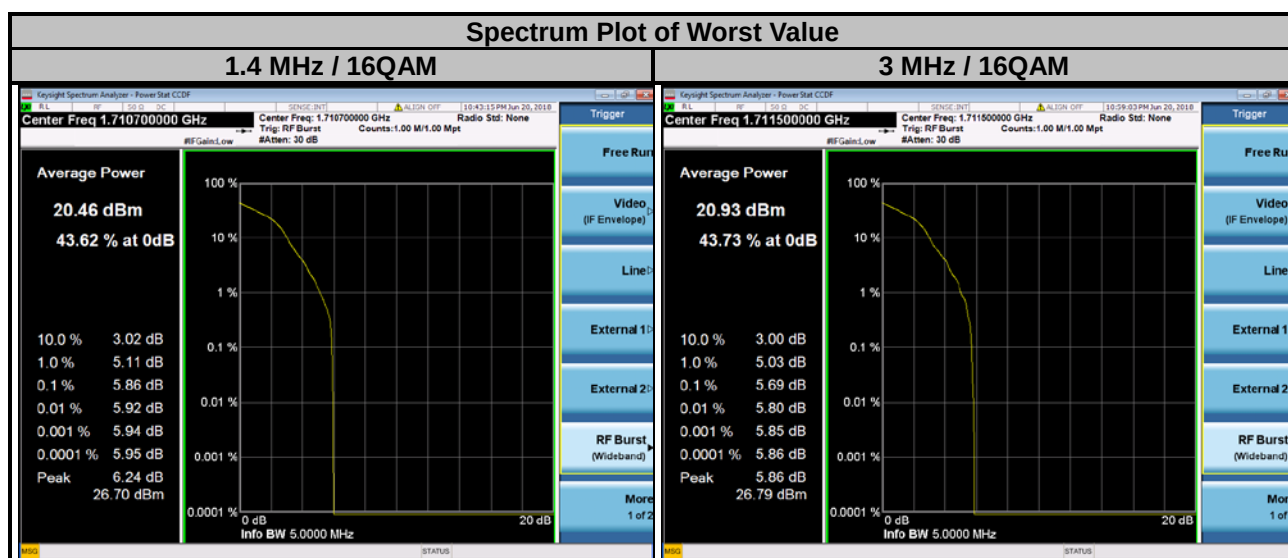
4.6.3 Test Procedures

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

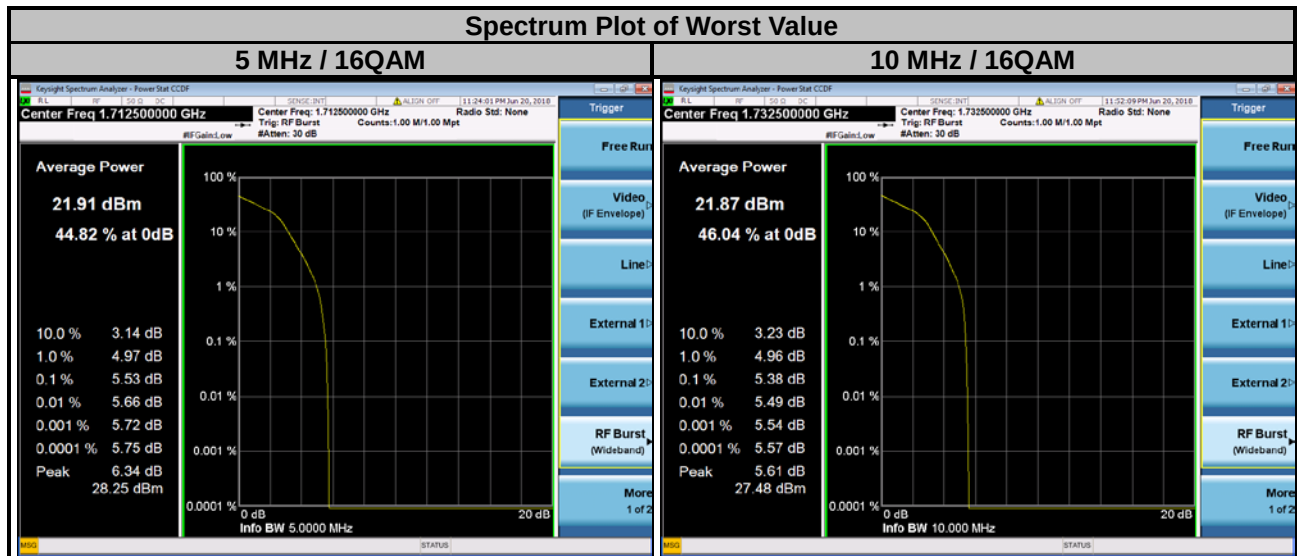
4.6.4 Test Results

Cat-M1

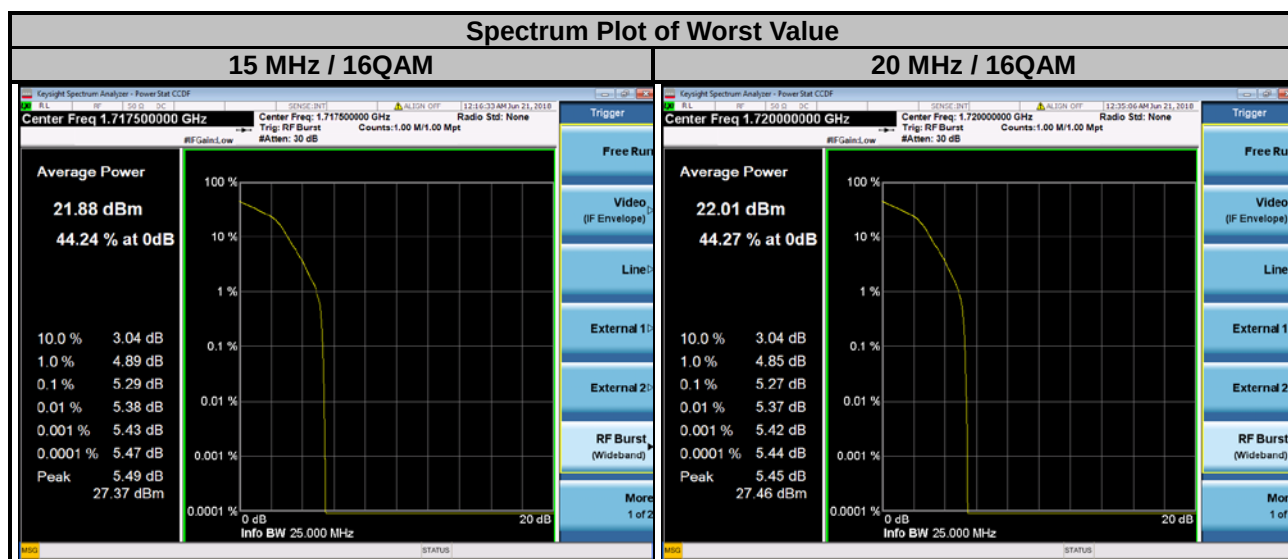
LTE Band 4							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19957	1710.7	4.92	5.86	19965	1711.5	4.81	5.69
20175	1732.5	4.70	5.55	20175	1732.5	4.69	5.55
20393	1754.3	4.62	5.43	20385	1753.5	4.53	5.39



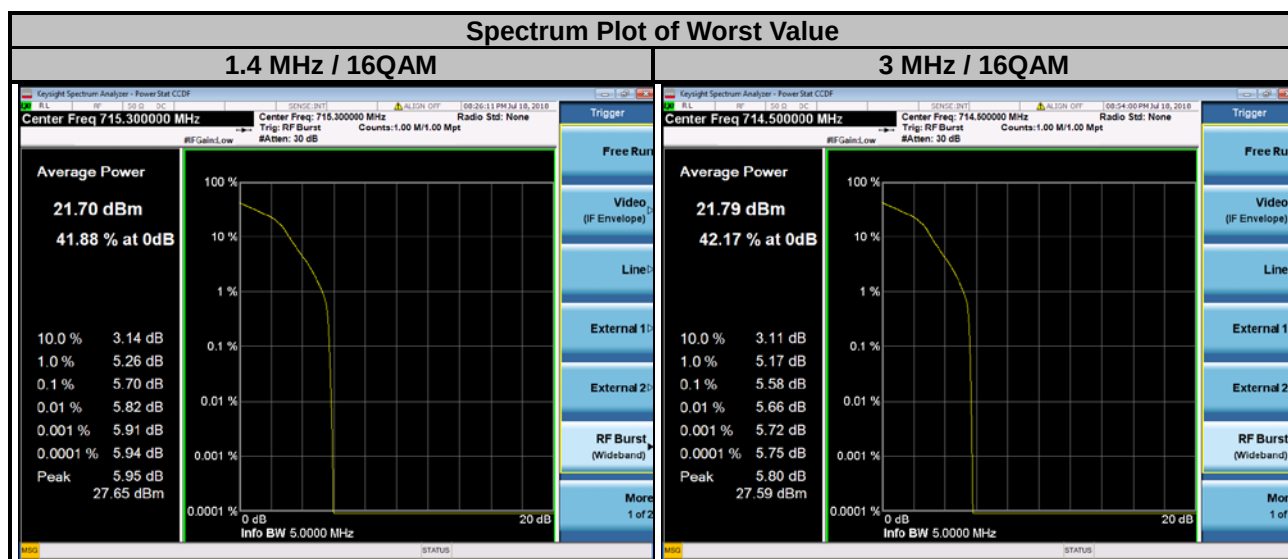
LTE Band 4							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
19975	1712.5	4.87	5.53	20000	1715.0	4.78	5.34
20175	1732.5	4.72	5.27	20175	1732.5	4.67	5.38
20375	1752.5	4.53	5.05	20350	1750.0	4.46	4.92



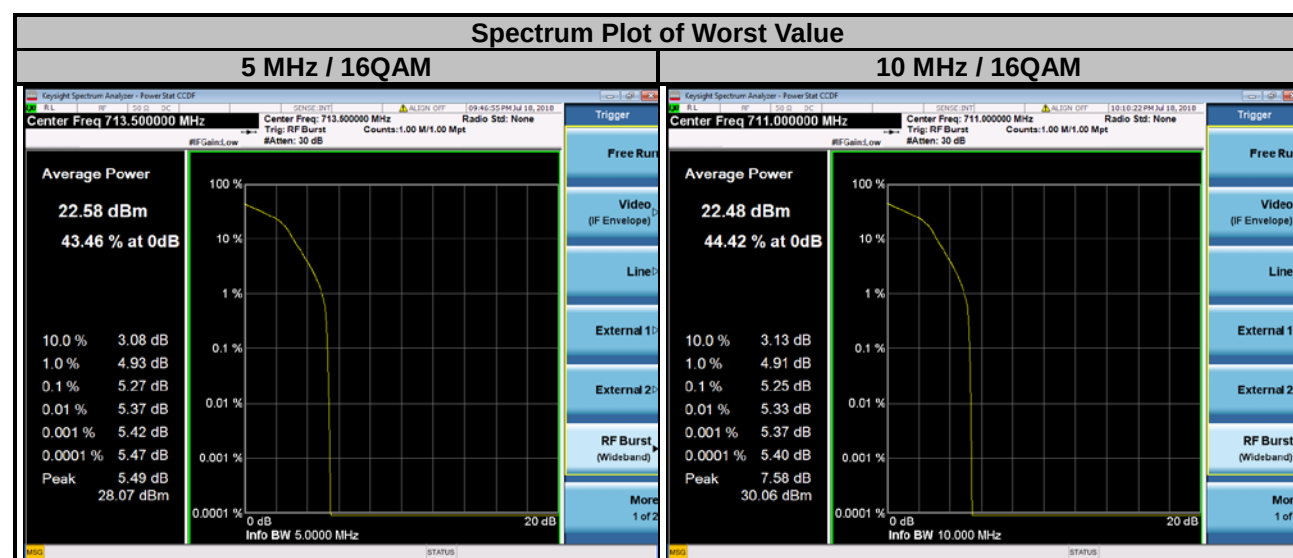
LTE Band 4							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20025	1717.5	4.73	5.29	20050	1720.0	4.74	5.27
20175	1732.5	4.65	5.11	20175	1732.5	4.70	5.06
20325	1747.5	4.49	4.95	20300	1745.0	4.51	5.09



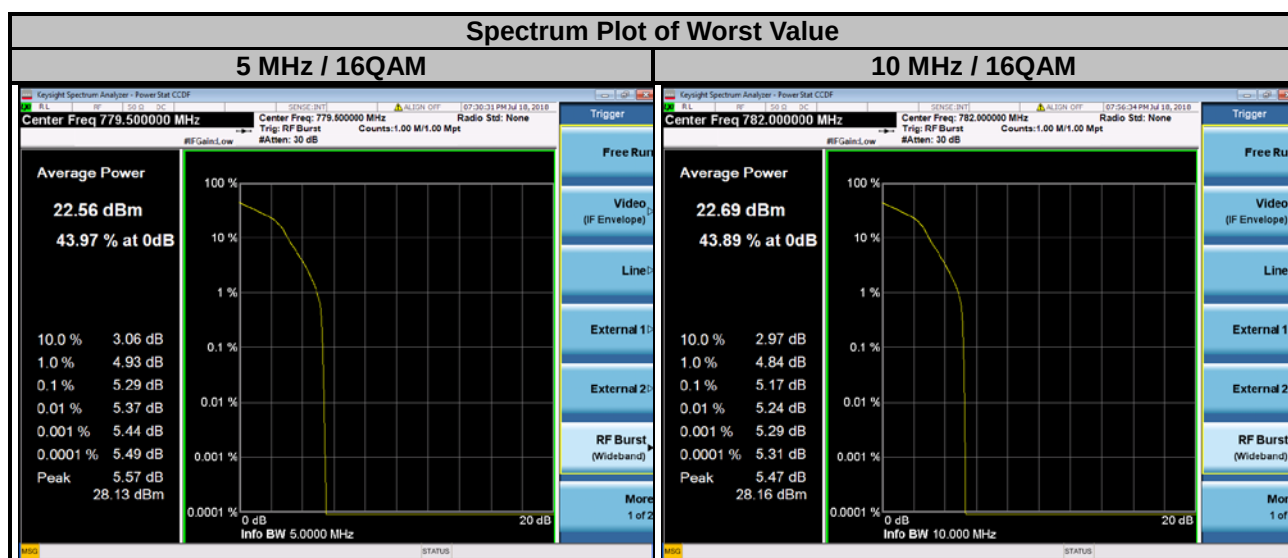
LTE Band 12							
Channel Bandwidth: 1.4 MHz				Channel Bandwidth: 3 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
23017	699.7	4.55	5.52	23025	700.5	4.49	5.51
23095	707.5	4.62	5.64	23095	707.5	4.49	5.54
23173	715.3	4.61	5.70	23165	714.5	4.60	5.58



LTE Band 12							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
23035	701.5	4.52	5.02	23060	704.0	4.44	4.95
23095	707.5	4.54	5.22	23095	707.5	4.47	5.10
23155	713.5	4.65	5.27	23130	711.0	4.50	5.25

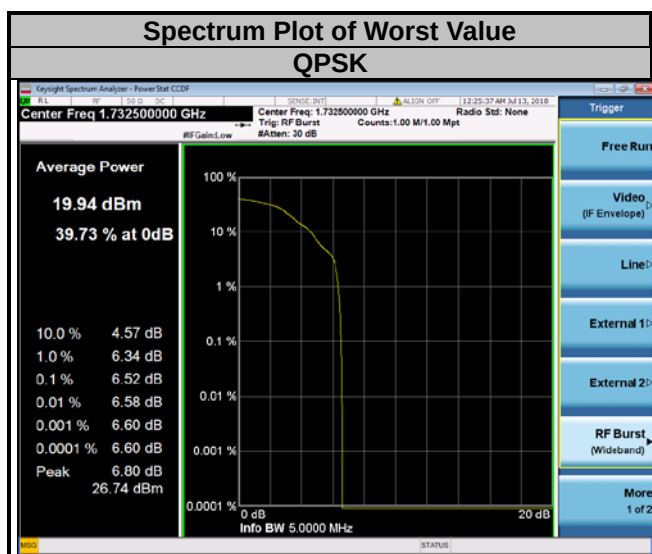


LTE Band 13							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
23205	779.5	4.60	5.29	23230	782.0	4.50	5.17
23230	782.0	4.60	5.26				
23255	784.5	4.60	5.28				



NB-IOT

Peak to Average Ratio (dB)					
LTE Band 4					
Channel	Frequency (MHz)	Modulation	Sub-carrier spacing (kHz)	CCDF	Limit
20175	1732.5	BPSK	3.75	1.89	13.00
20175	1732.5	QPSK	15	1.76	
20175	1732.5	QPSK	15	6.52	



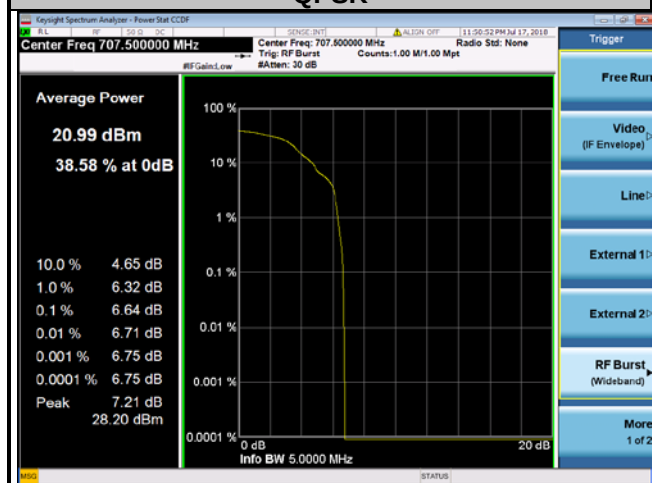
Peak to Average Ratio (dB)

LTE Band 12

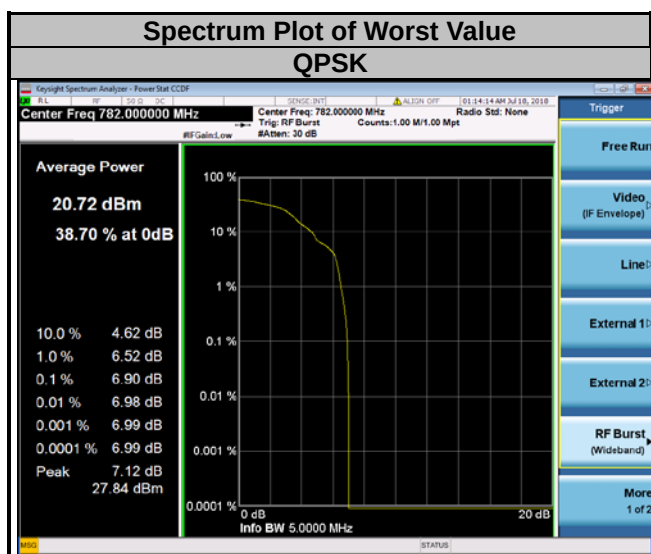
Channel	Frequency (MHz)	Modulation	Sub-carrier spacing (kHz)	CCDF	Limit
23095	707.5	BPSK	3.75	1.80	13.00
23095	707.5	QPSK	15	1.63	
23095	707.5	QPSK	15	6.64	

Spectrum Plot of Worst Value

QPSK



Peak to Average Ratio (dB)					
LTE Band 13					
Channel	Frequency (MHz)	Modulation	Sub-carrier spacing (kHz)	CCDF	Limit
23230	782	BPSK	3.75	1.96	13.00
23230	782	QPSK	15	3.12	
23230	782	QPSK	15	6.90	

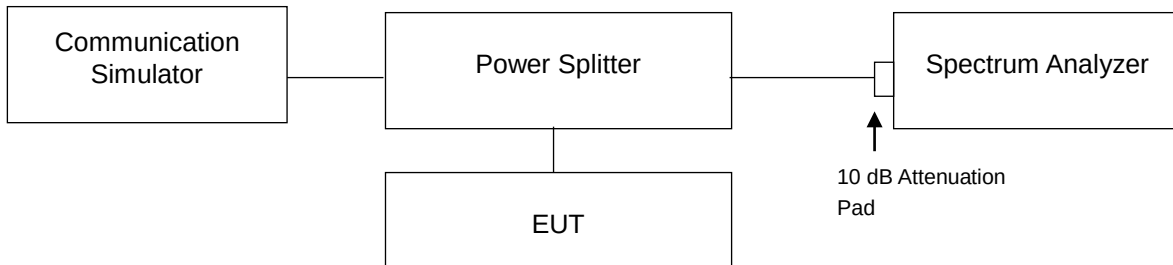


4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.

4.7.2 Test Setup

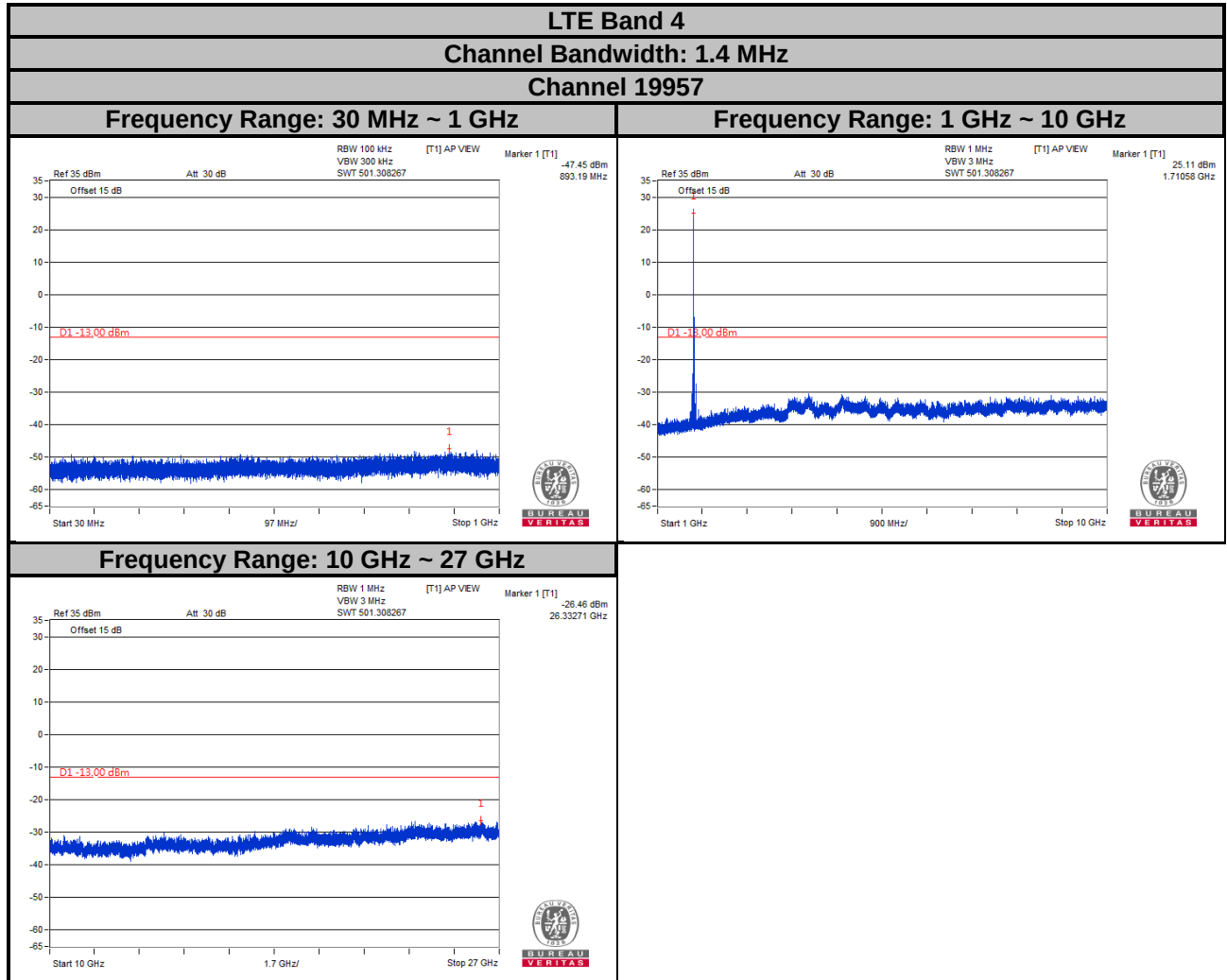


4.7.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- For LTE B4, measuring frequency range is from 30 MHz to 27 GHz. 20 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.
- For LTE B12/13, measuring frequency range is from 30 MHz to 1 GHz. 20 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz is used for conducted emission measurement.

4.7.4 Test Results

Cat-M1

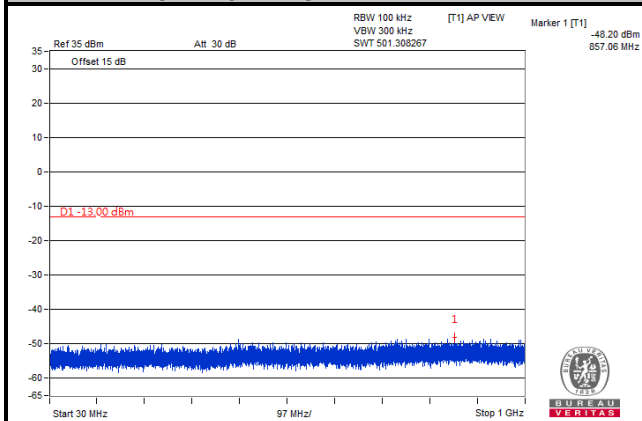


LTE Band 4

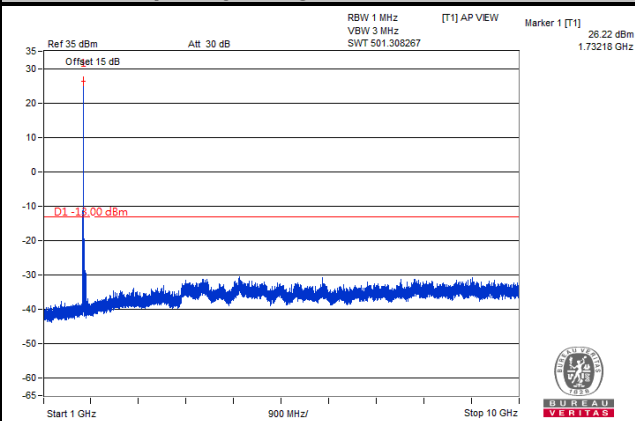
Channel Bandwidth: 1.4 MHz

Channel 20175

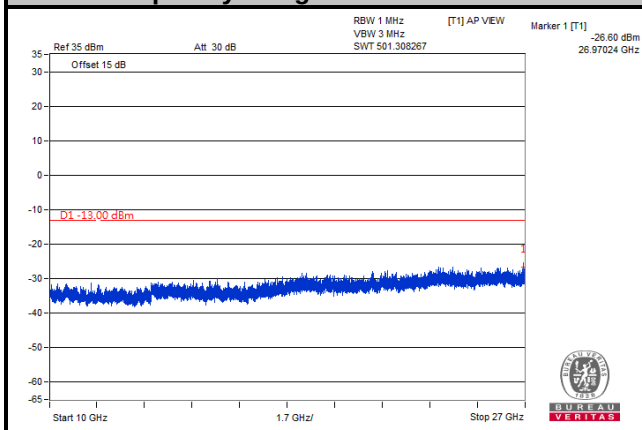
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

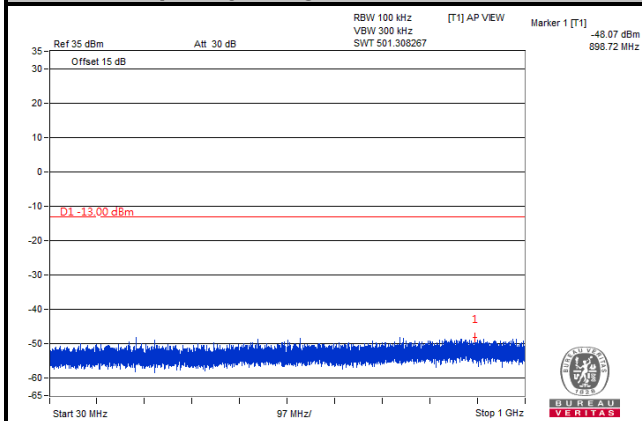


LTE Band 4

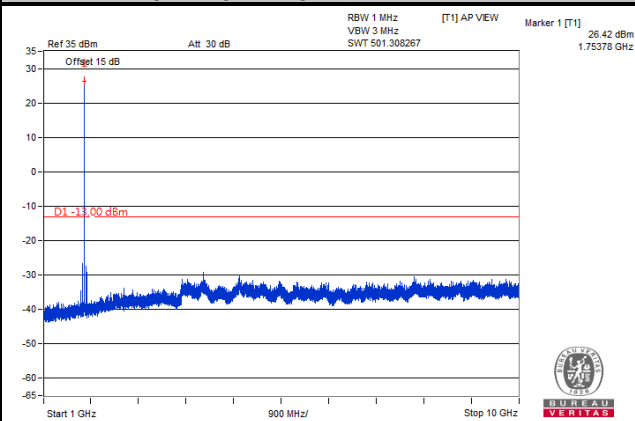
Channel Bandwidth: 1.4 MHz

Channel 20393

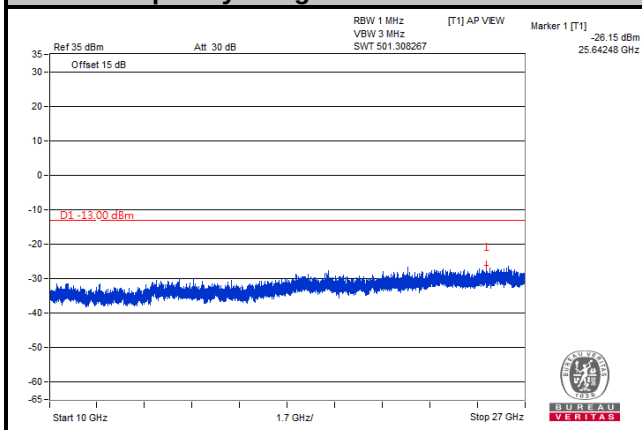
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

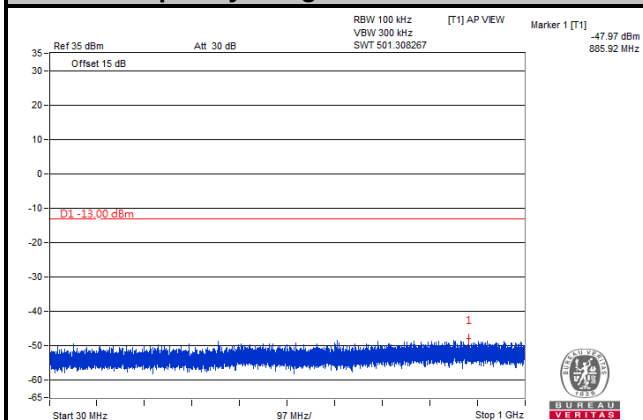


LTE Band 4

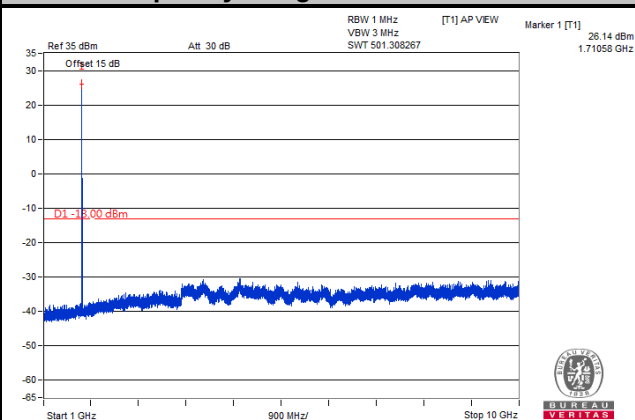
Channel Bandwidth: 3 MHz

Channel 19965

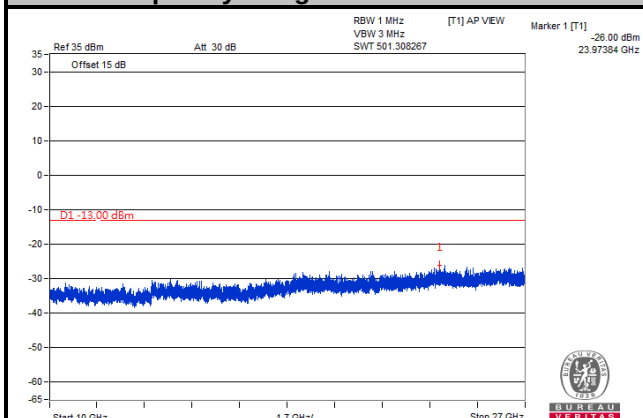
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

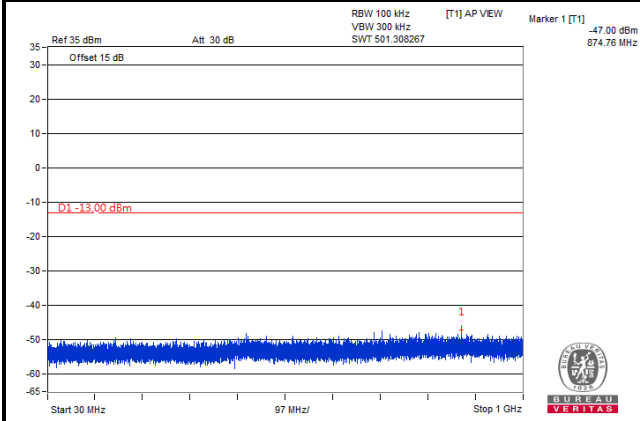


LTE Band 4

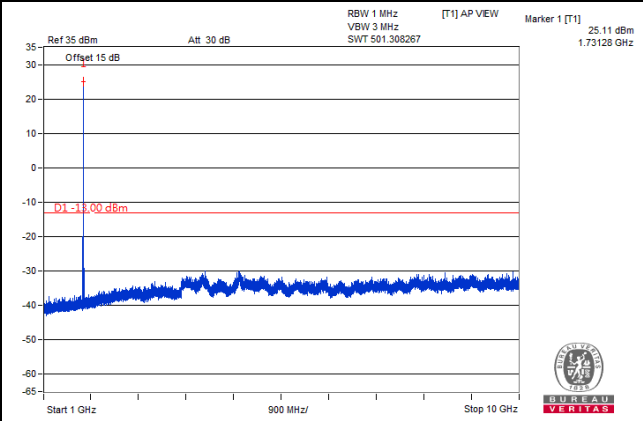
Channel Bandwidth: 3 MHz

Channel 20175

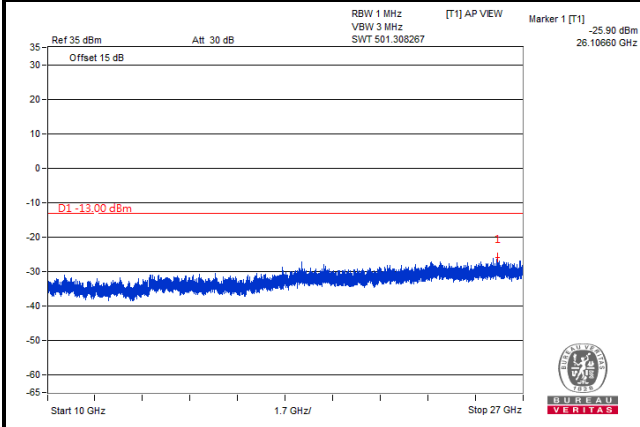
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

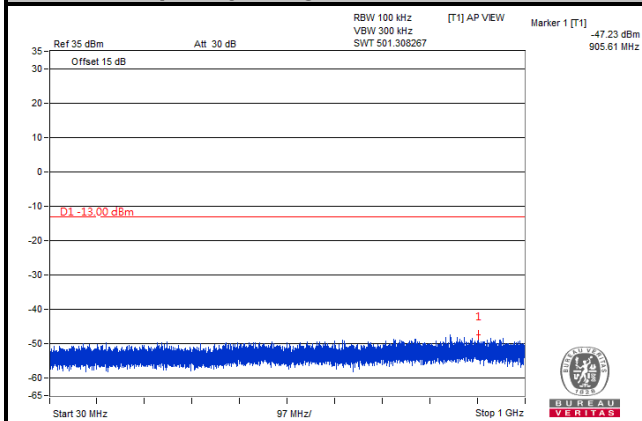


LTE Band 4

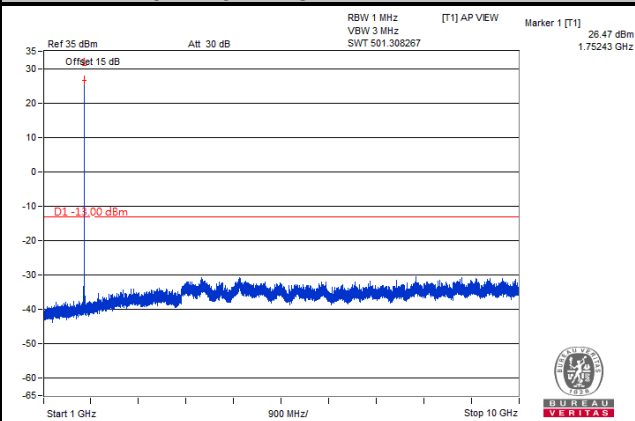
Channel Bandwidth: 3 MHz

Channel 20385

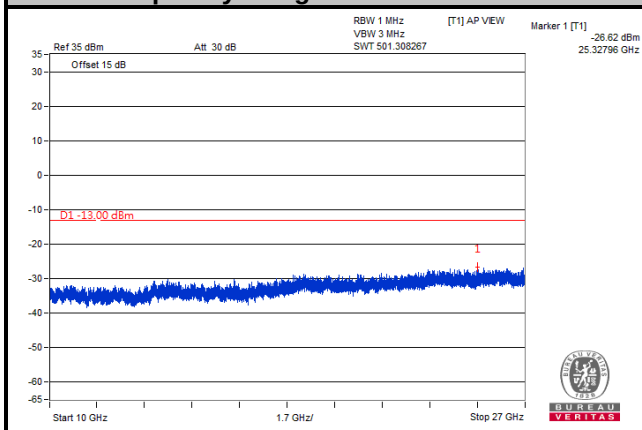
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

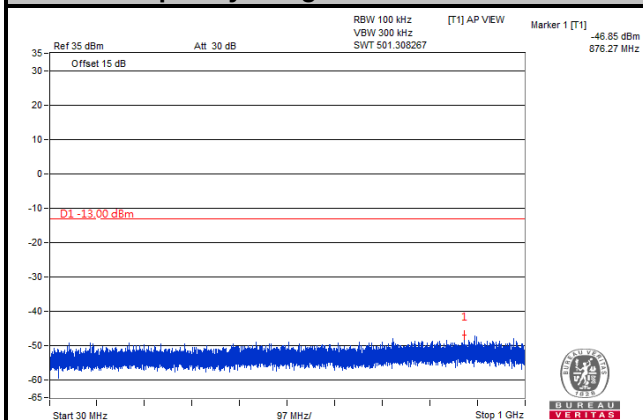


LTE Band 4

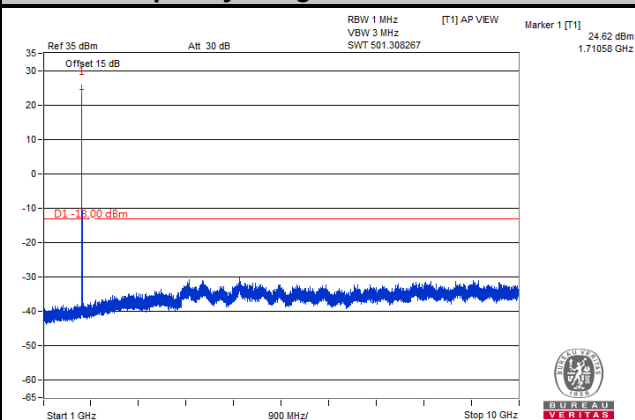
Channel Bandwidth: 5 MHz

Channel 19975

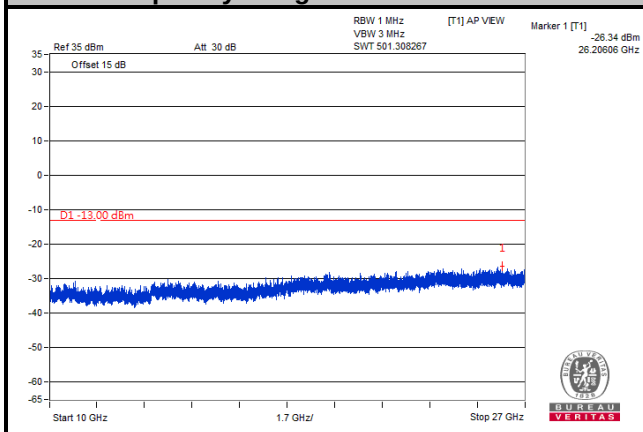
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

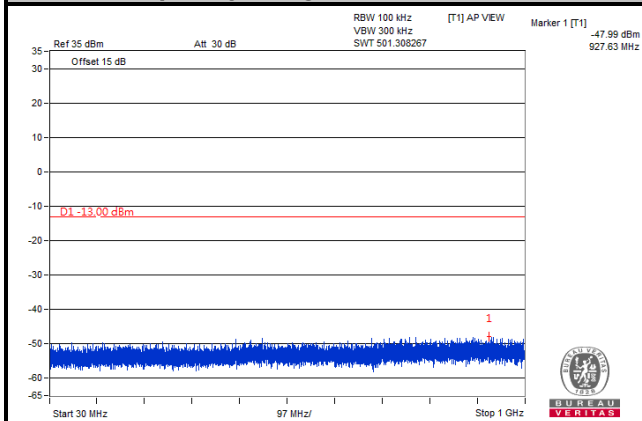


LTE Band 4

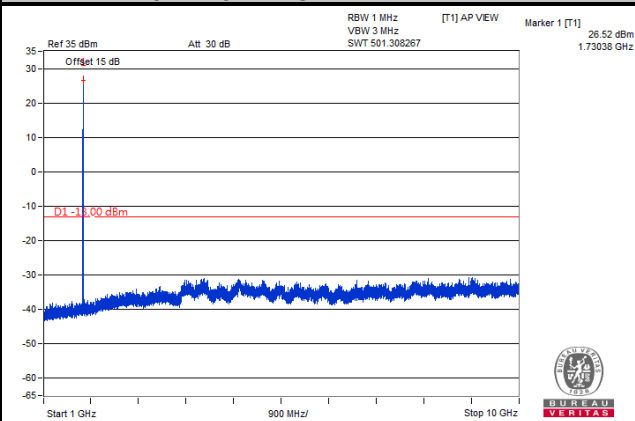
Channel Bandwidth: 5 MHz

Channel 20175

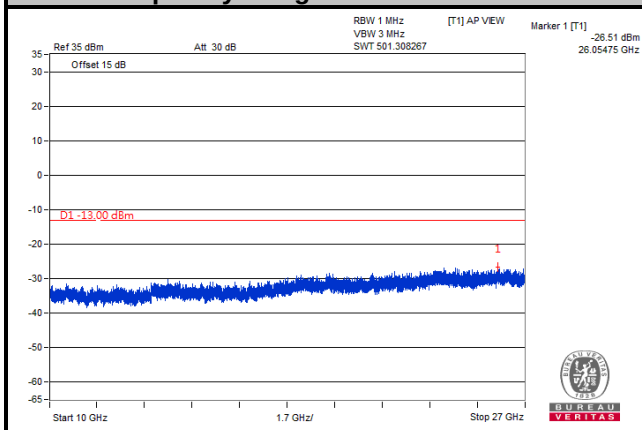
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

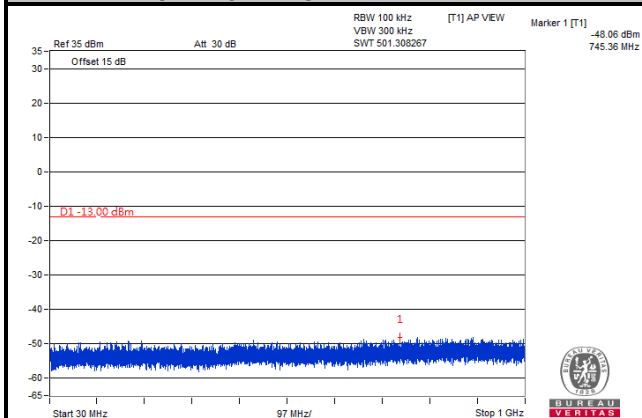


LTE Band 4

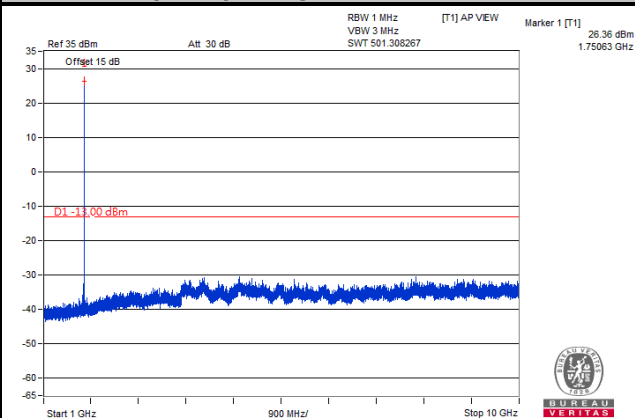
Channel Bandwidth: 5 MHz

Channel 20375

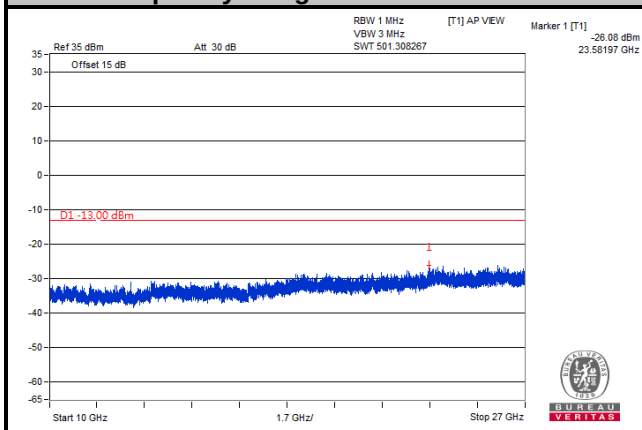
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



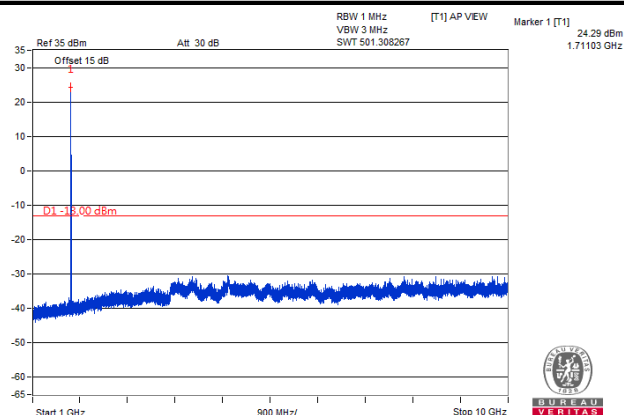
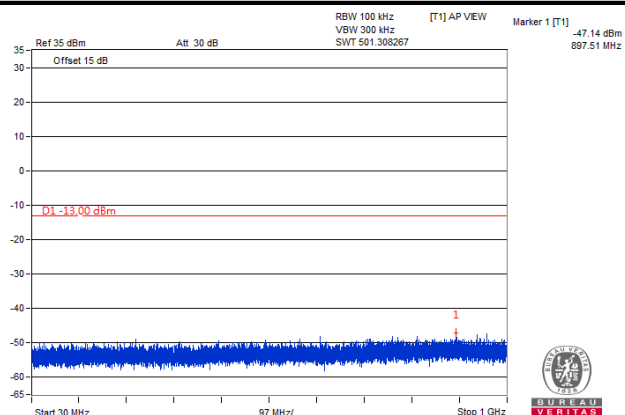
LTE Band 4

Channel Bandwidth: 10 MHz

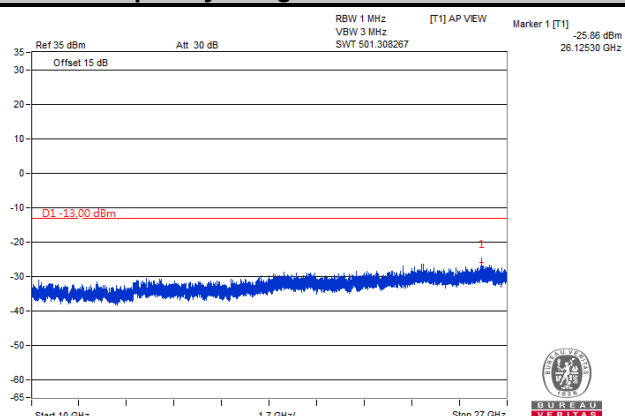
Channel 20000

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

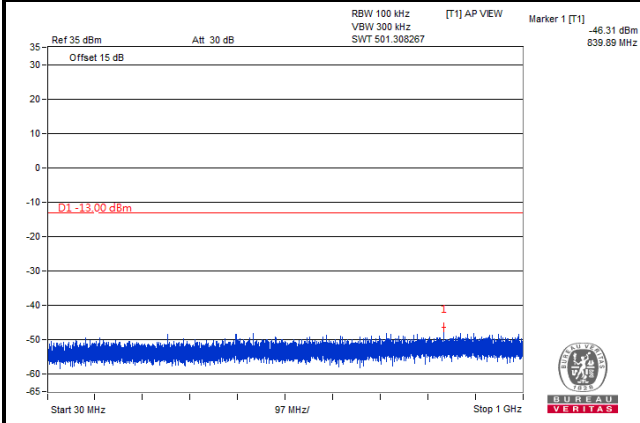


LTE Band 4

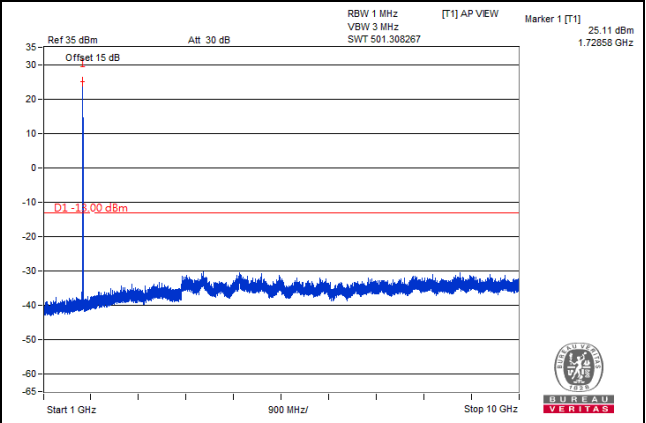
Channel Bandwidth: 10 MHz

Channel 20175

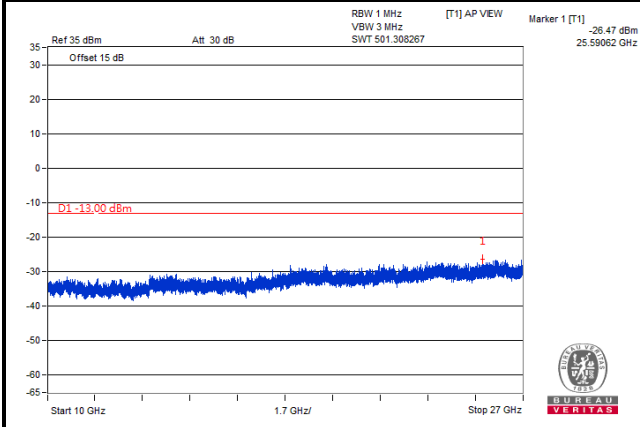
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

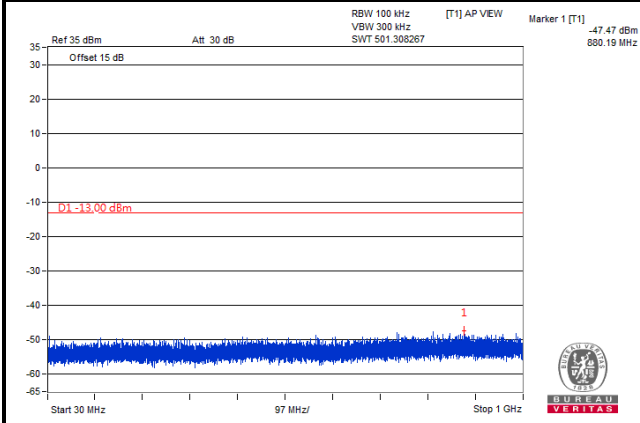


LTE Band 4

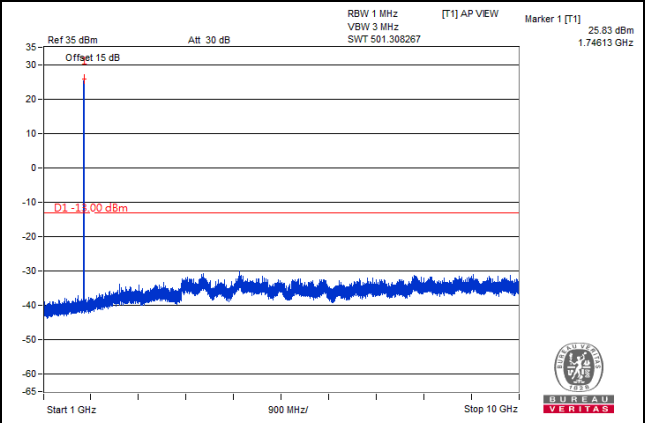
Channel Bandwidth: 10 MHz

Channel 20350

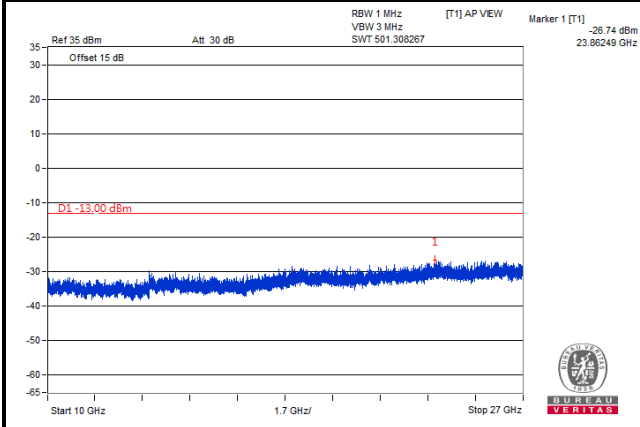
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

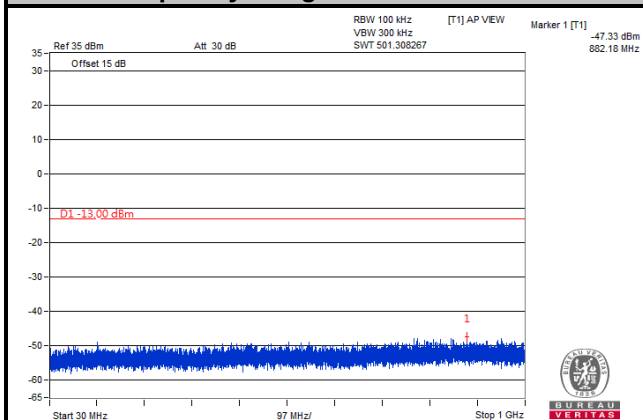


LTE Band 4

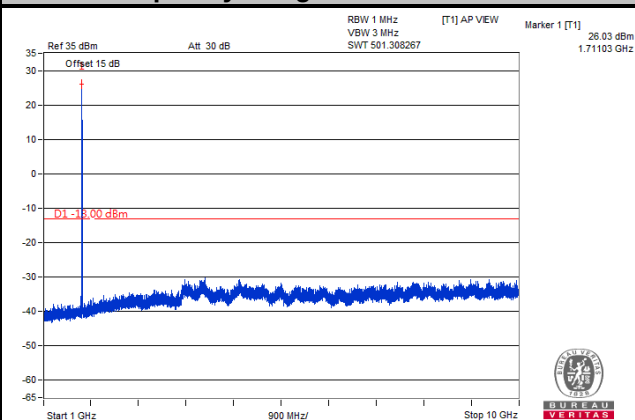
Channel Bandwidth: 15 MHz

Channel 20025

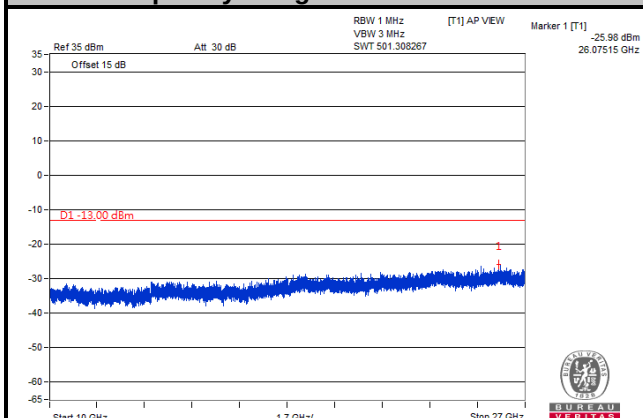
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

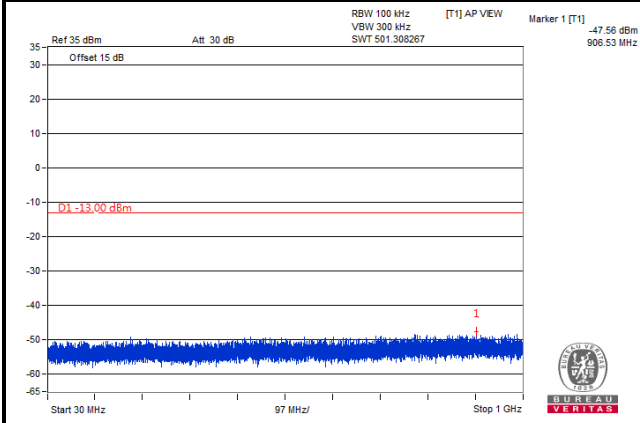


LTE Band 4

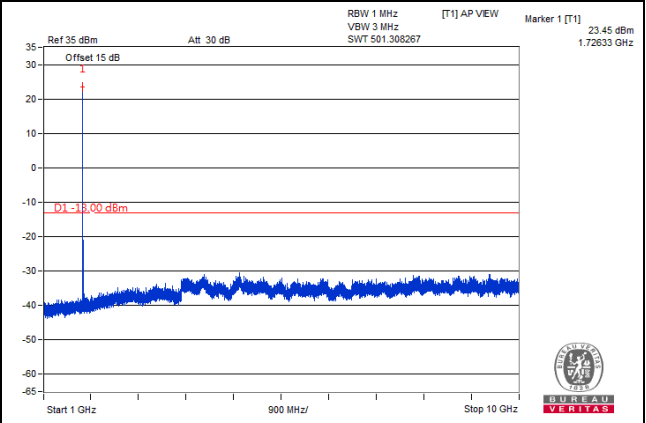
Channel Bandwidth: 15 MHz

Channel 20175

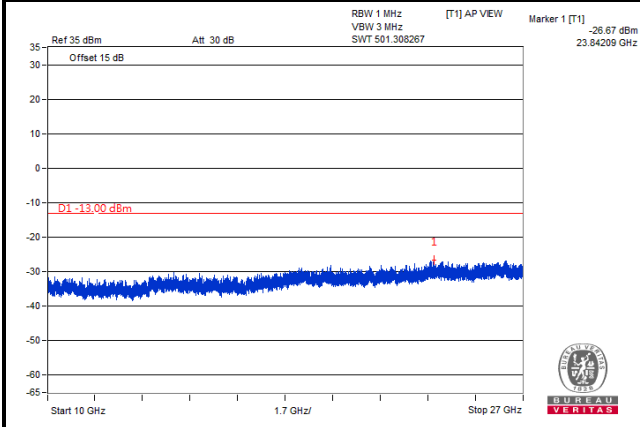
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

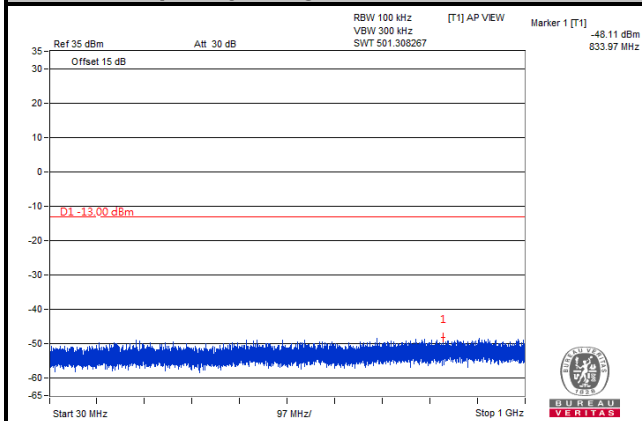


LTE Band 4

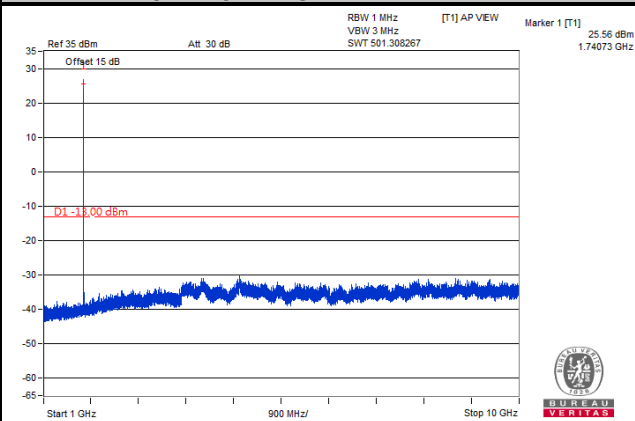
Channel Bandwidth: 15 MHz

Channel 20325

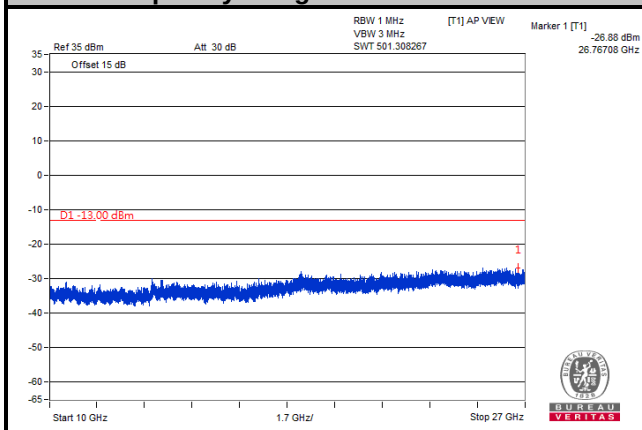
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz



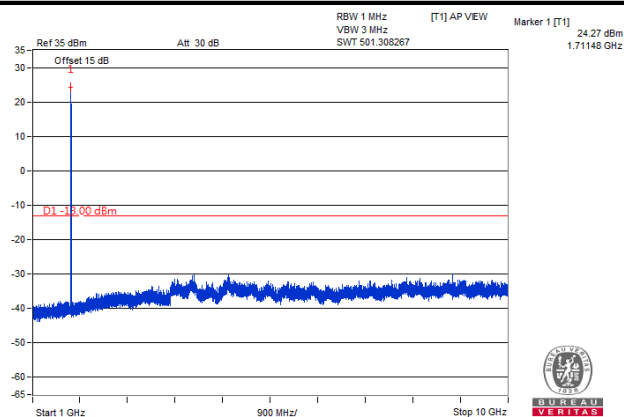
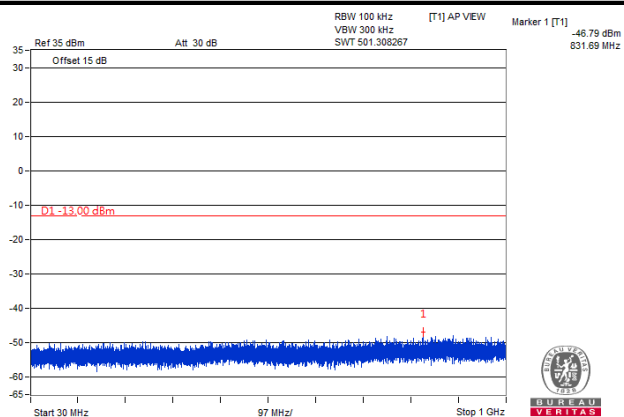
LTE Band 4

Channel Bandwidth: 20 MHz

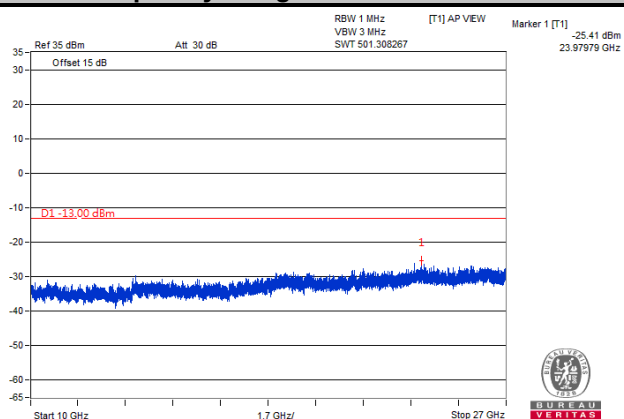
Channel 20050

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

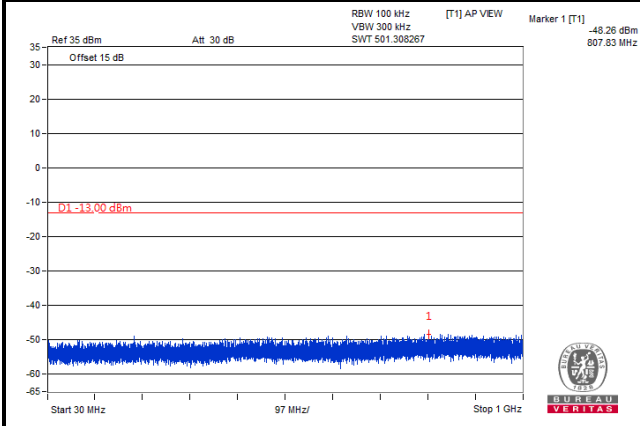


LTE Band 4

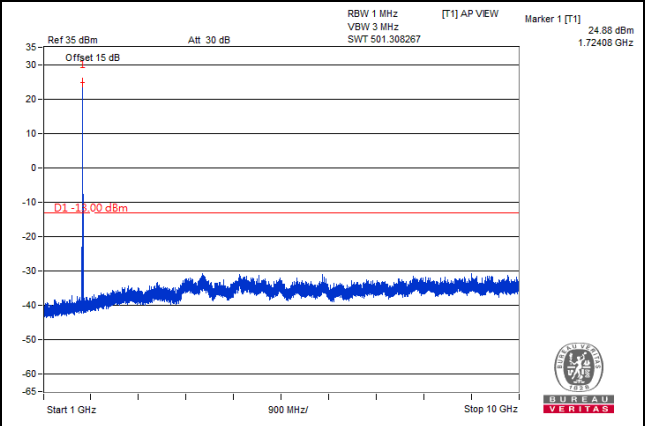
Channel Bandwidth: 20 MHz

Channel 20175

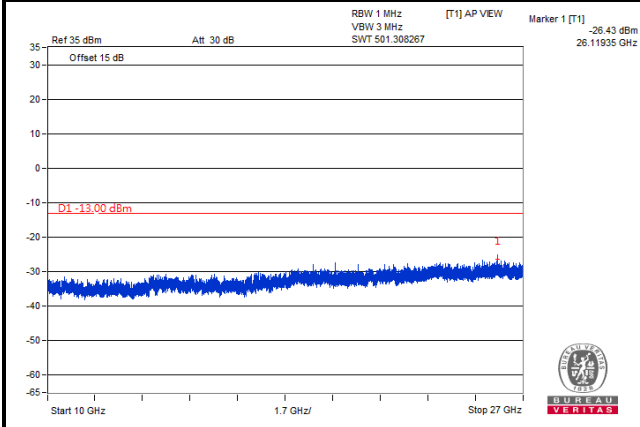
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

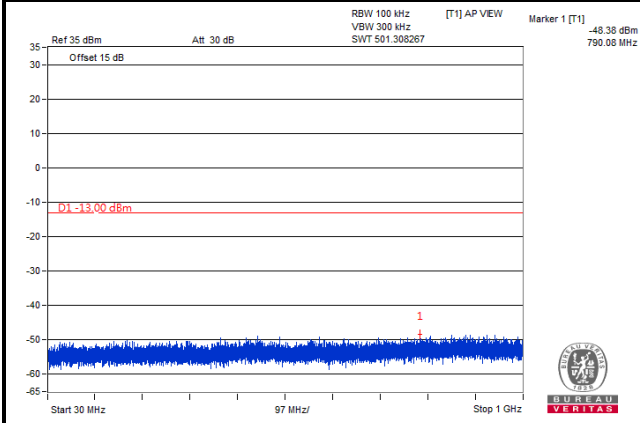


LTE Band 4

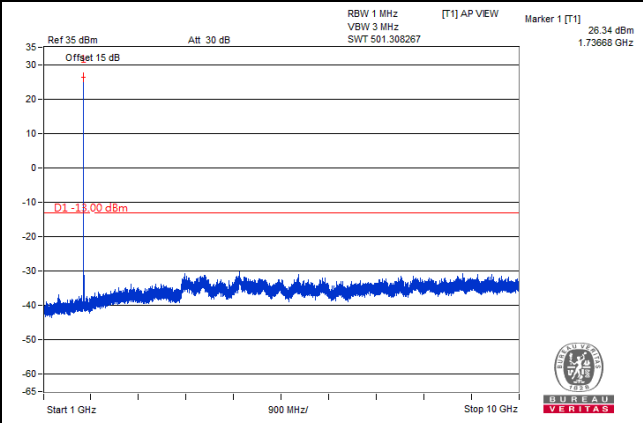
Channel Bandwidth: 20 MHz

Channel 20300

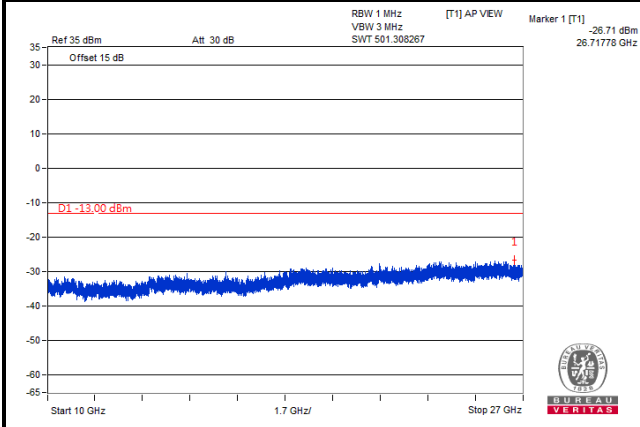
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

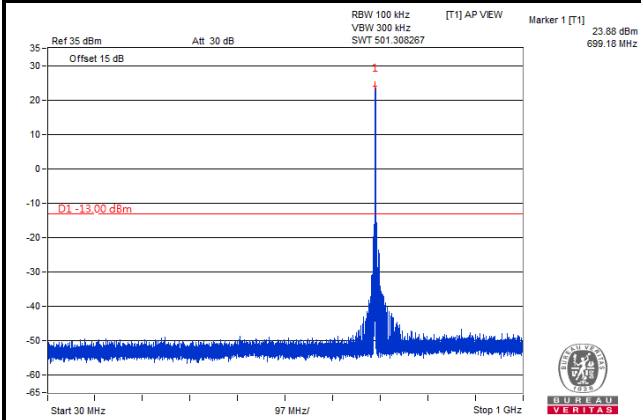


LTE Band 12

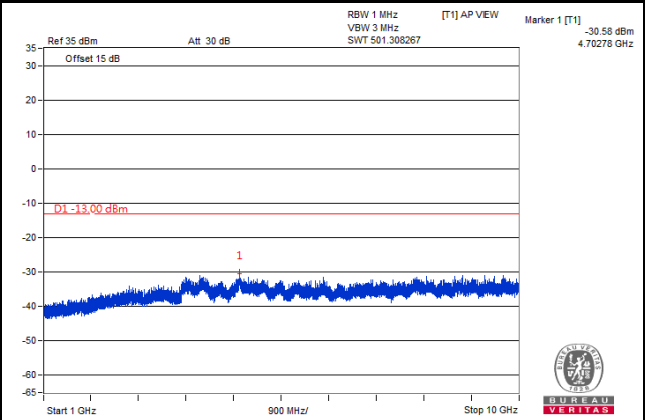
Channel Bandwidth: 1.4 MHz

Channel 23017

Frequency Range: 30 MHz ~ 1 GHz

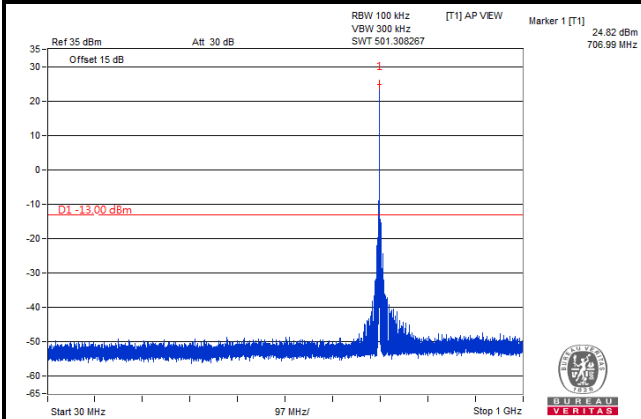


Frequency Range: 1 GHz ~ 10 GHz

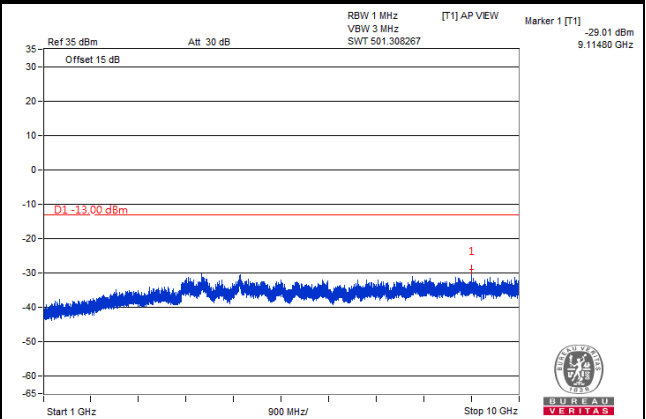


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

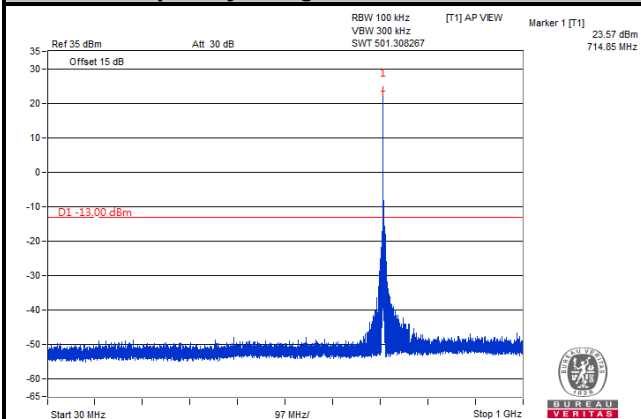


Frequency Range: 1 GHz ~ 10 GHz

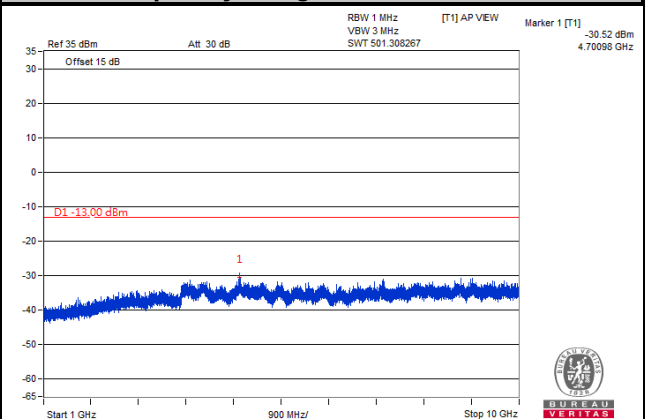


Channel 23173

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

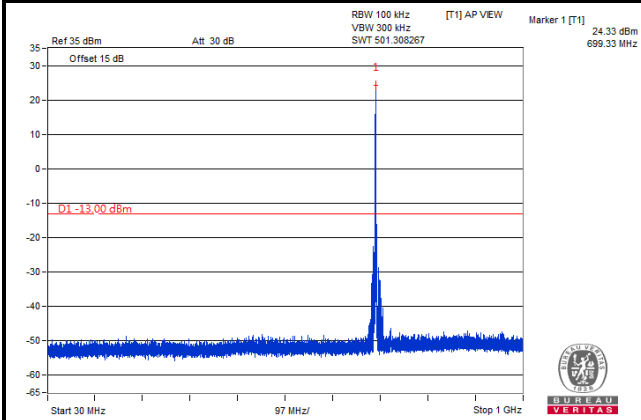


LTE Band 12

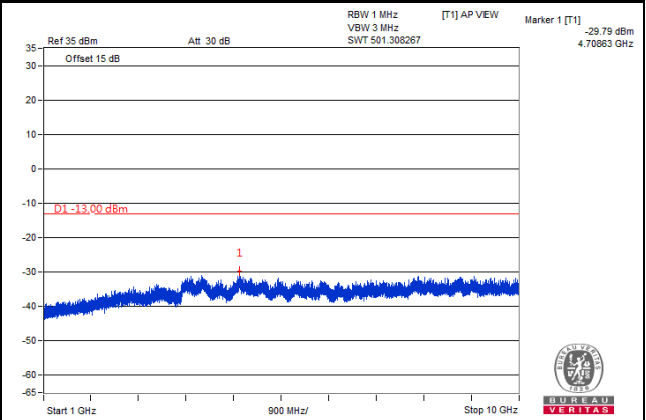
Channel Bandwidth: 3 MHz

Channel 23025

Frequency Range: 30 MHz ~ 1 GHz

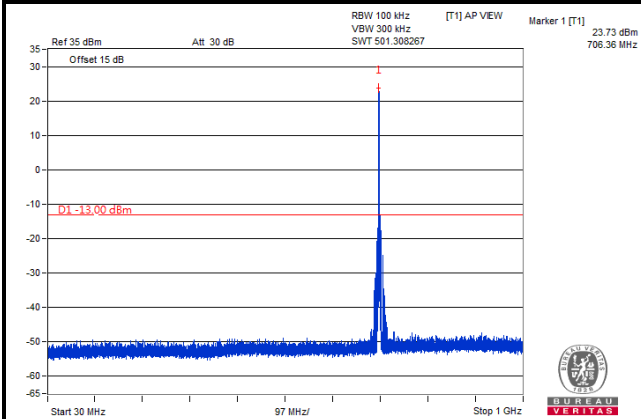


Frequency Range: 1 GHz ~ 10 GHz

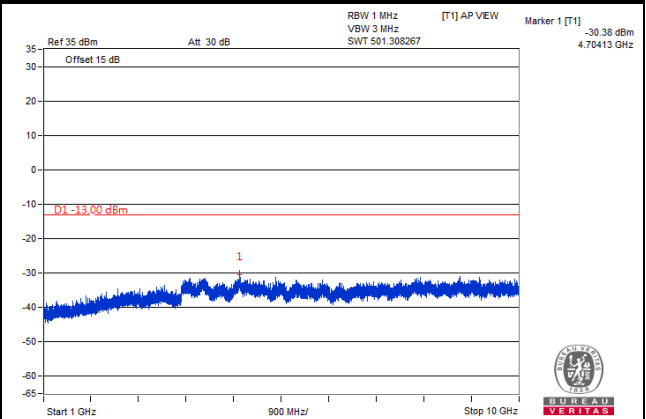


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

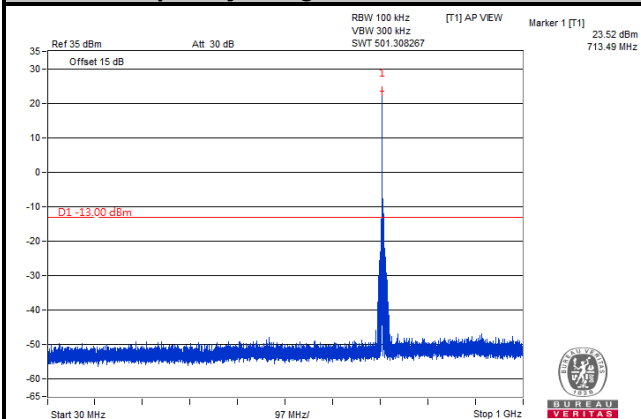


Frequency Range: 1 GHz ~ 10 GHz

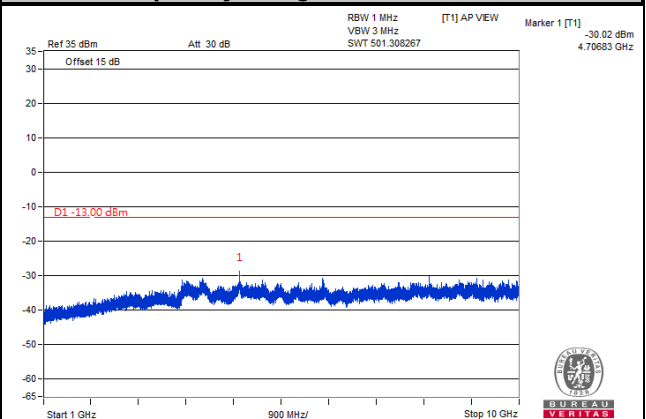


Channel 23165

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

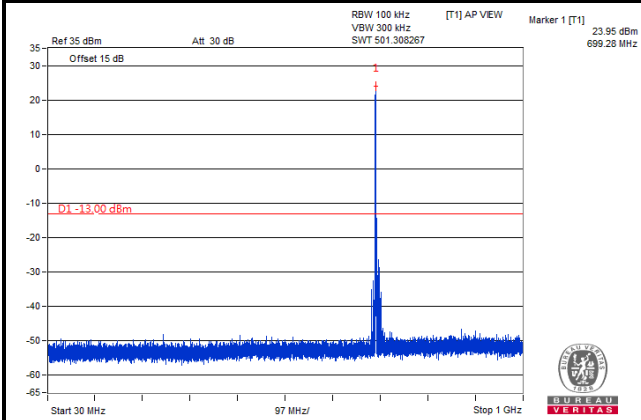


LTE Band 12

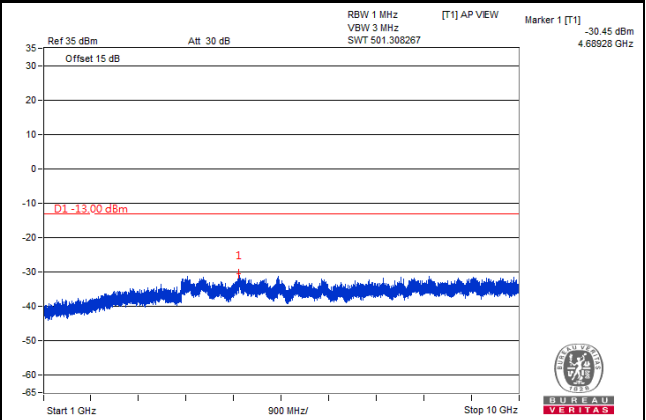
Channel Bandwidth: 5 MHz

Channel 23035

Frequency Range: 30 MHz ~ 1 GHz

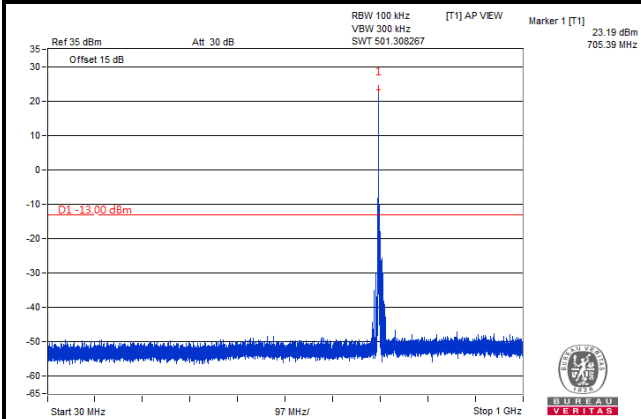


Frequency Range: 1 GHz ~ 10 GHz

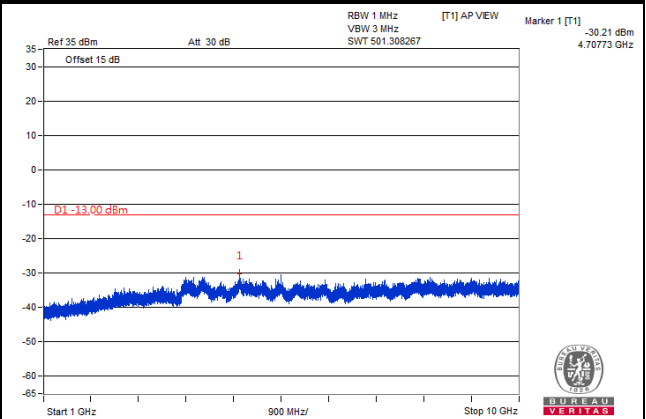


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

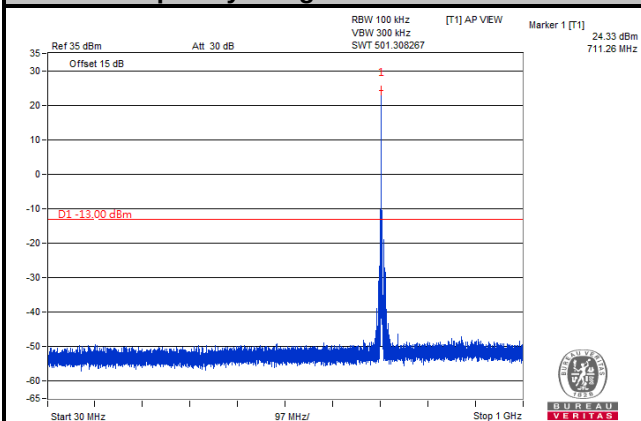


Frequency Range: 1 GHz ~ 10 GHz

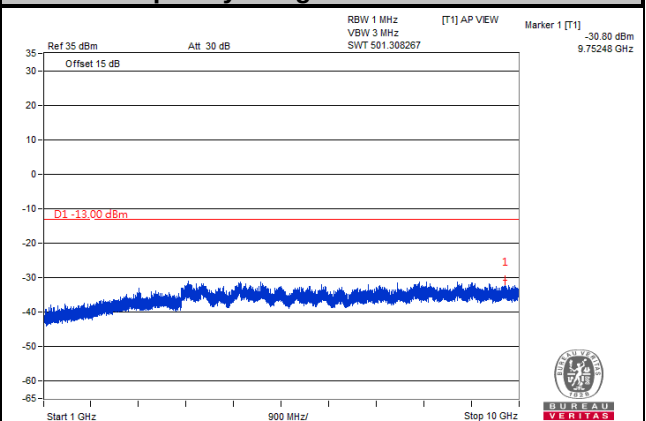


Channel 23155

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

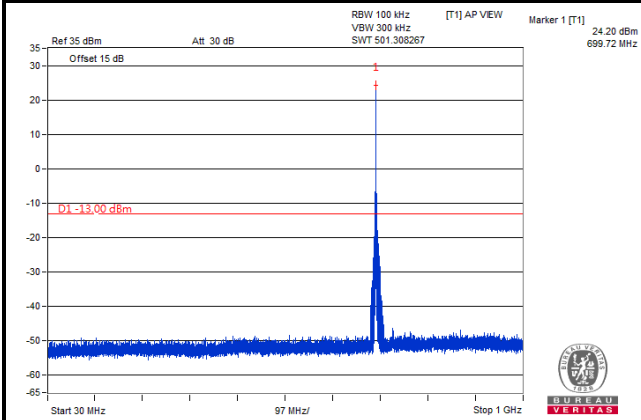


LTE Band 12

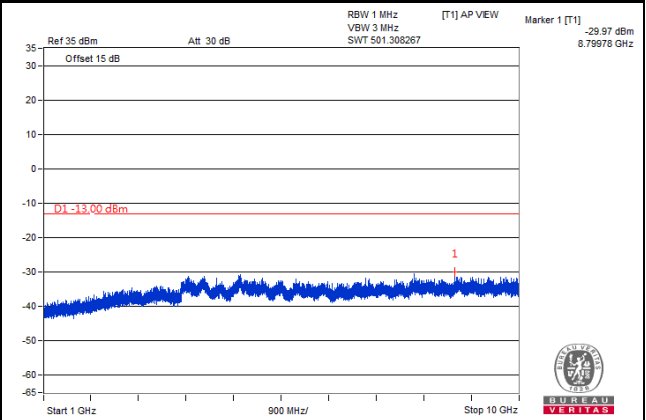
Channel Bandwidth: 10 MHz

Channel 23060

Frequency Range: 30 MHz ~ 1 GHz

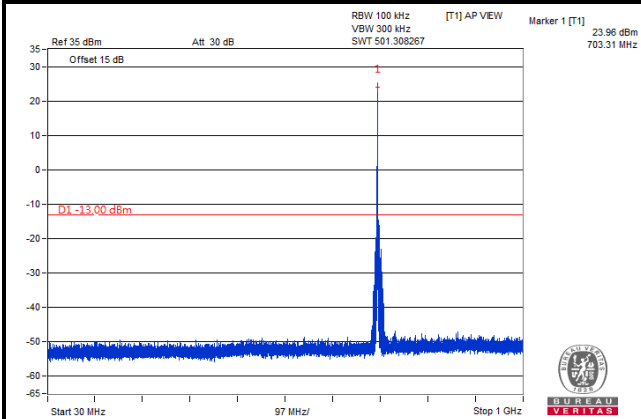


Frequency Range: 1 GHz ~ 10 GHz

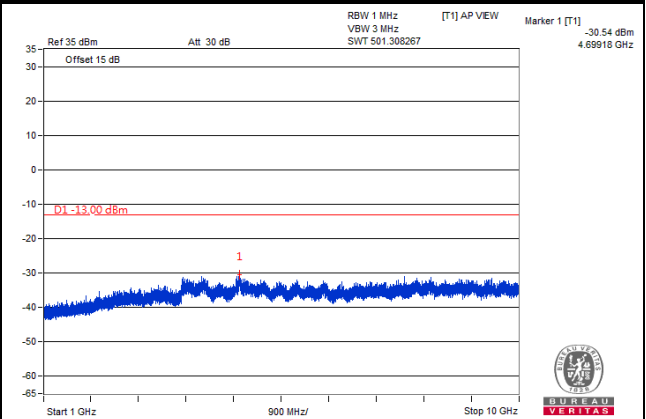


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

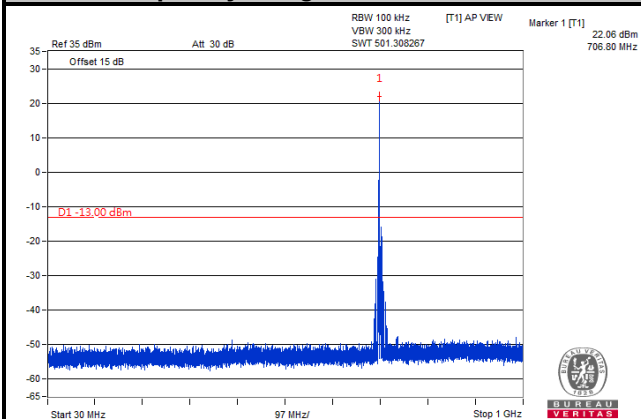


Frequency Range: 1 GHz ~ 10 GHz

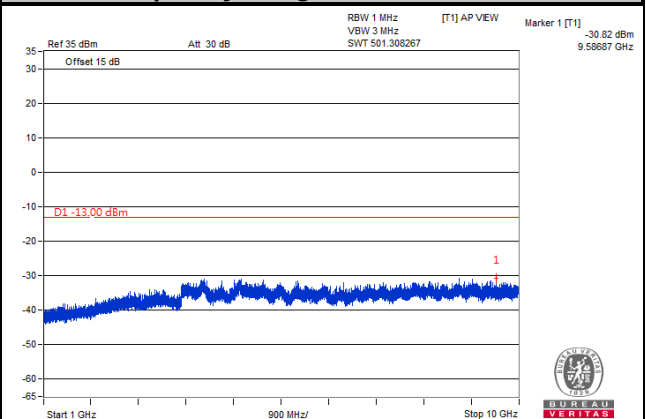


Channel 23130

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

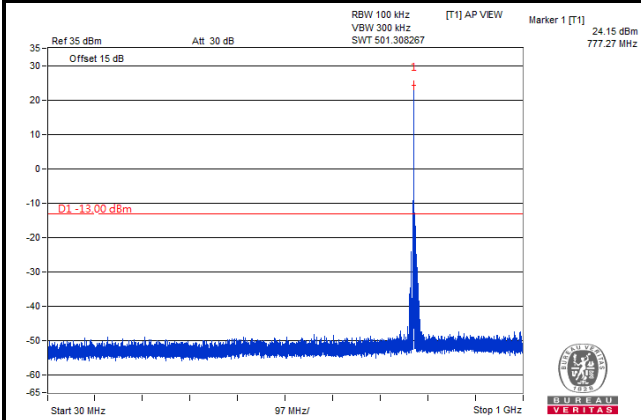


LTE Band 13

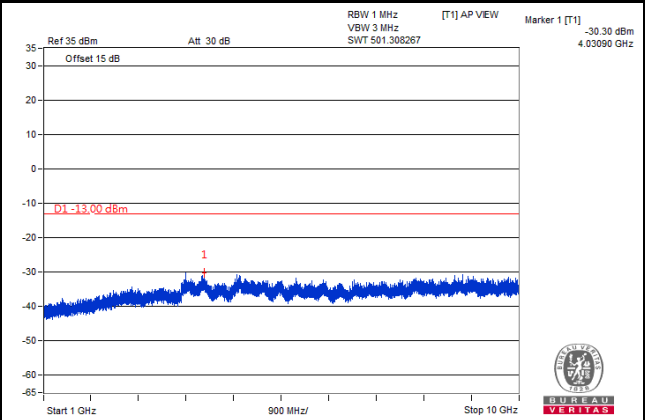
Channel Bandwidth: 5 MHz

Channel 23205

Frequency Range: 30 MHz ~ 1 GHz

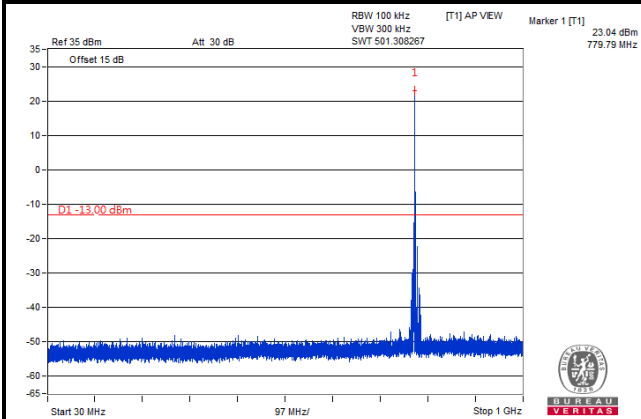


Frequency Range: 1 GHz ~ 10 GHz

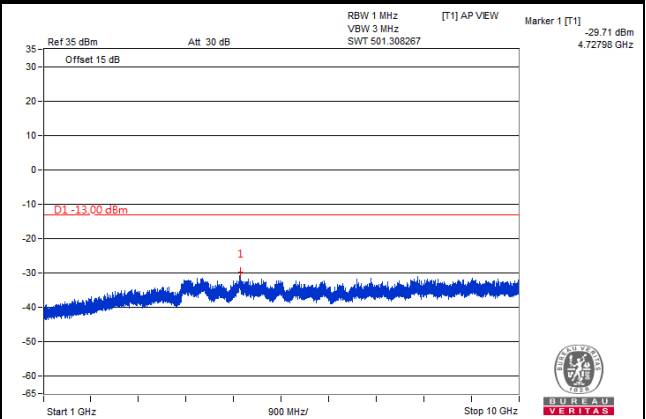


Channel 23230

Frequency Range: 30 MHz ~ 1 GHz

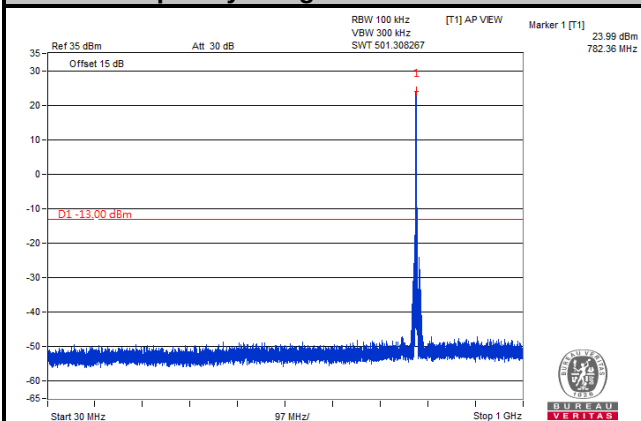


Frequency Range: 1 GHz ~ 10 GHz

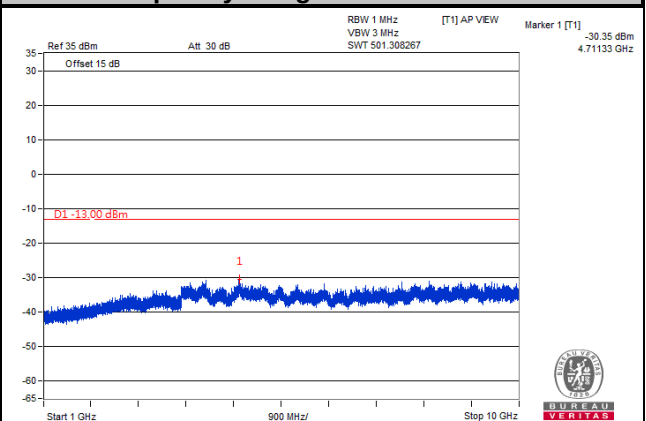


Channel 23255

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



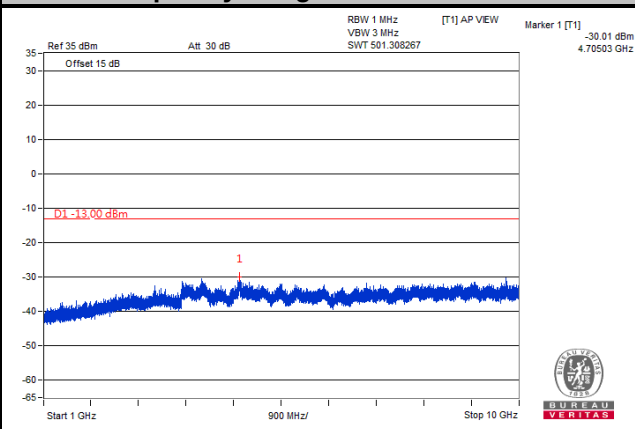
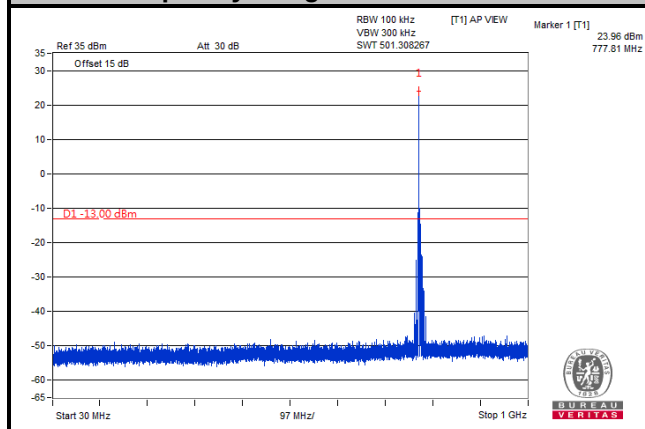
LTE Band 13

Channel Bandwidth: 10 MHz

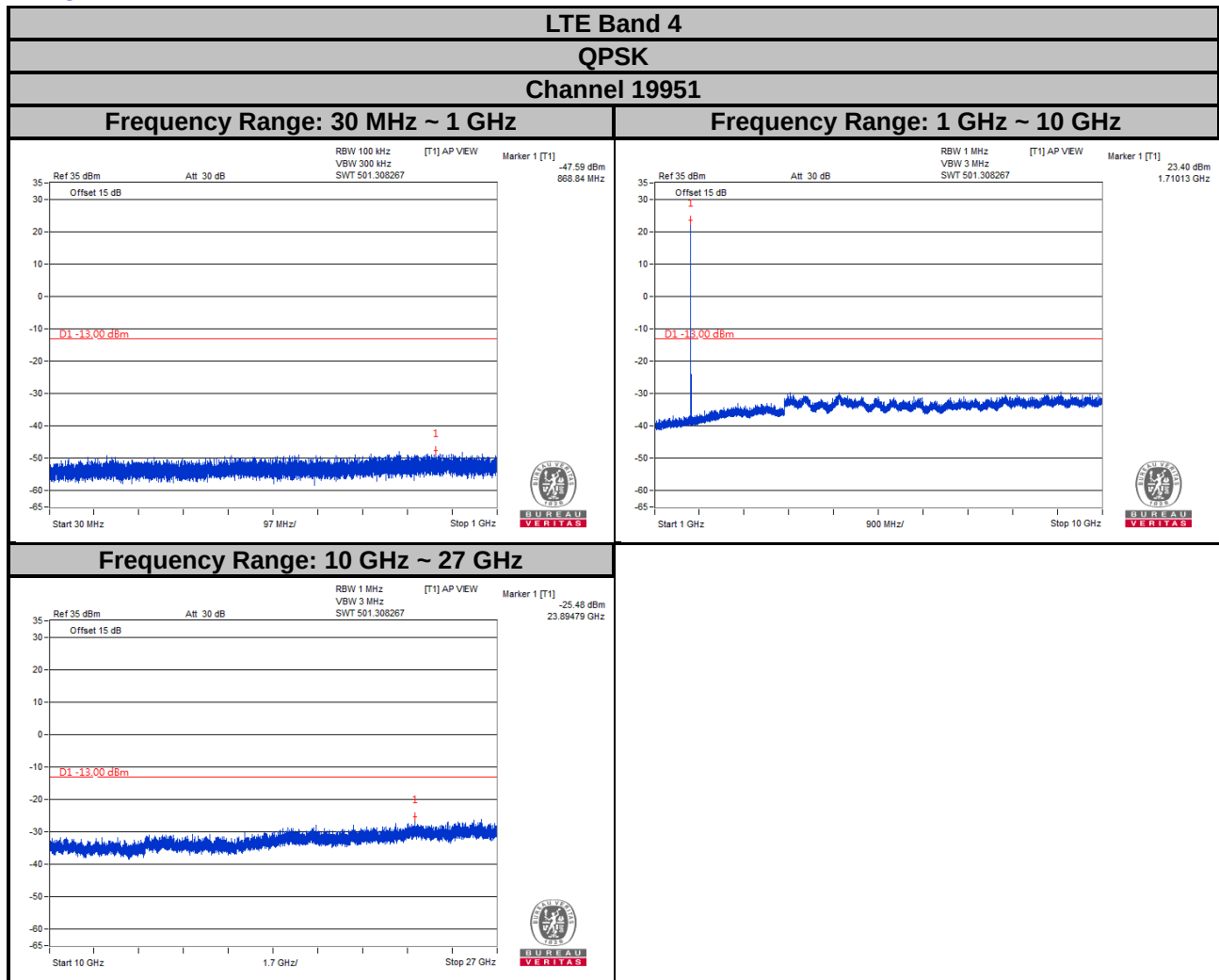
Channel 23230

Frequency Range: 30 MHz ~ 1 GHz

Frequency Range: 1 GHz ~ 10 GHz



NB-IOT

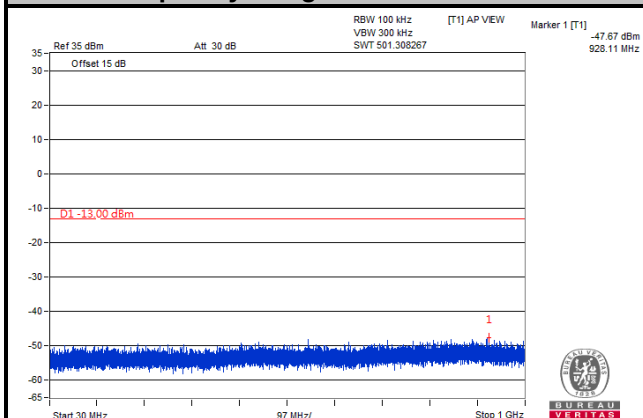


LTE Band 4

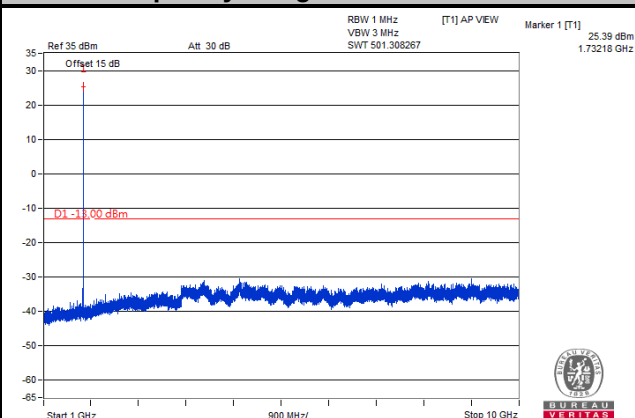
QPSK

Channel 20175

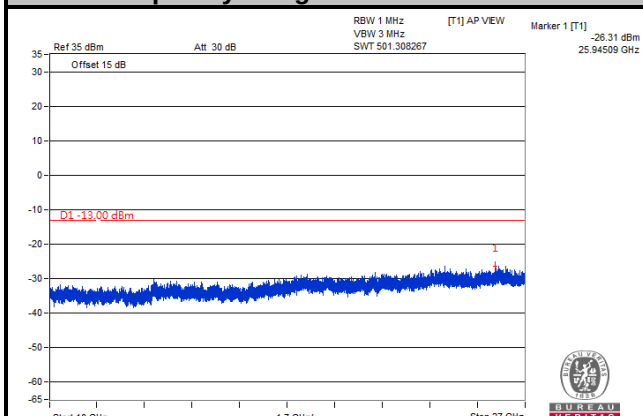
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

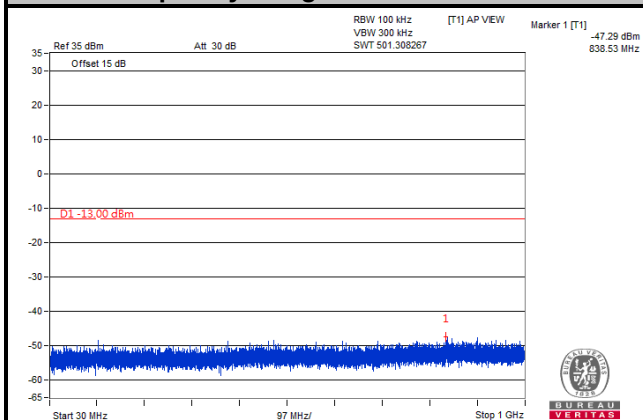


LTE Band 4

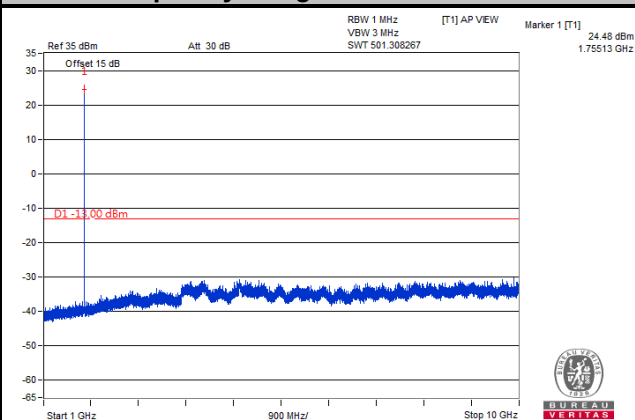
QPSK

Channel 20399

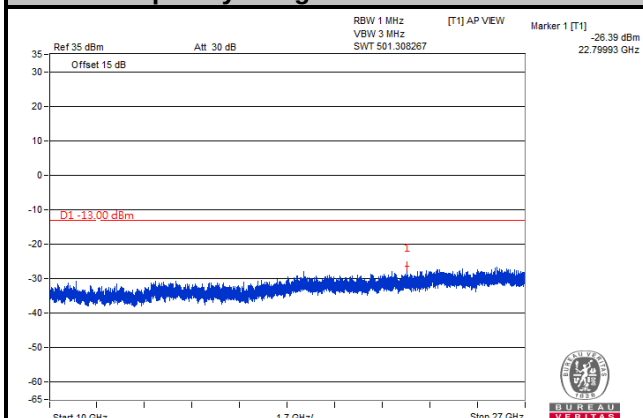
Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



Frequency Range: 10 GHz ~ 27 GHz

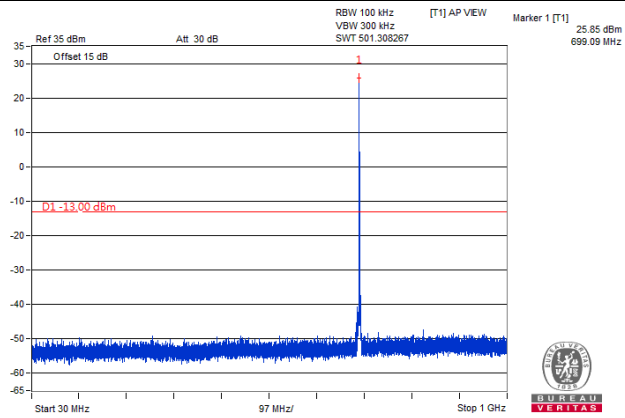


LTE Band 12

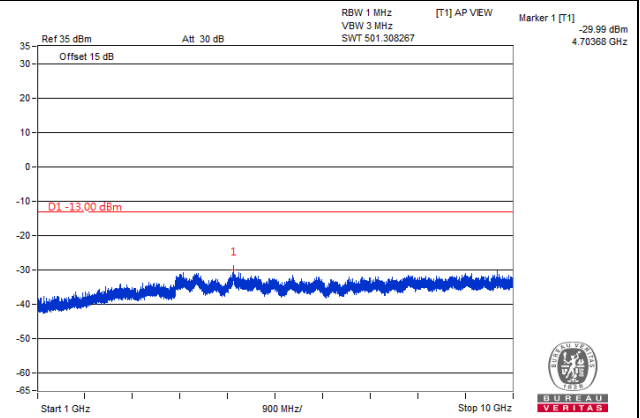
QPSK

Channel 23011

Frequency Range: 30 MHz ~ 1 GHz

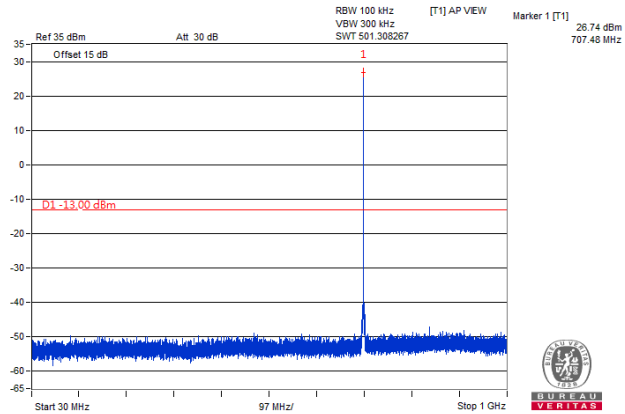


Frequency Range: 1 GHz ~ 10 GHz

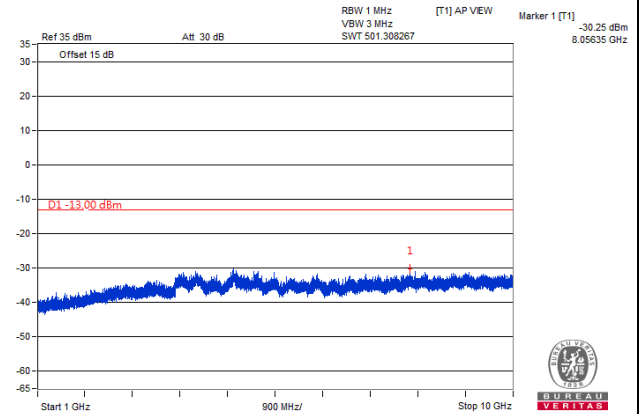


Channel 23095

Frequency Range: 30 MHz ~ 1 GHz

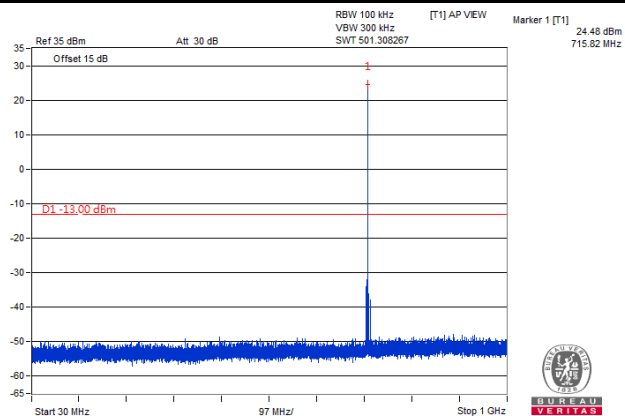


Frequency Range: 1 GHz ~ 10 GHz

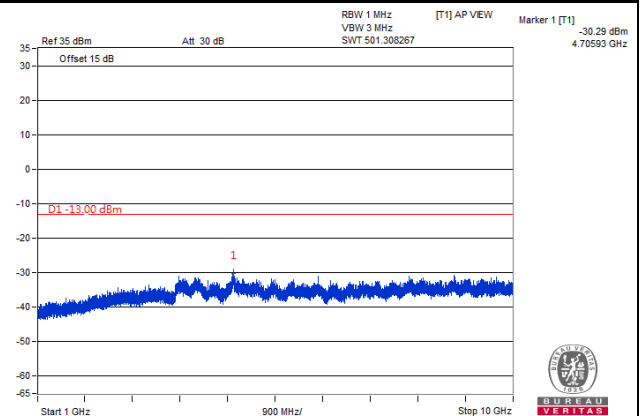


Channel 23179

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz

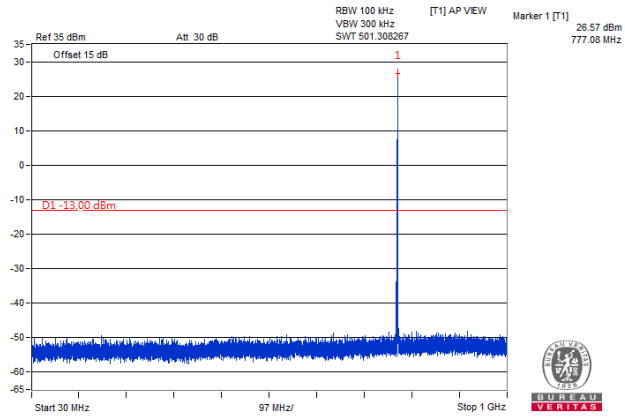


LTE Band 13

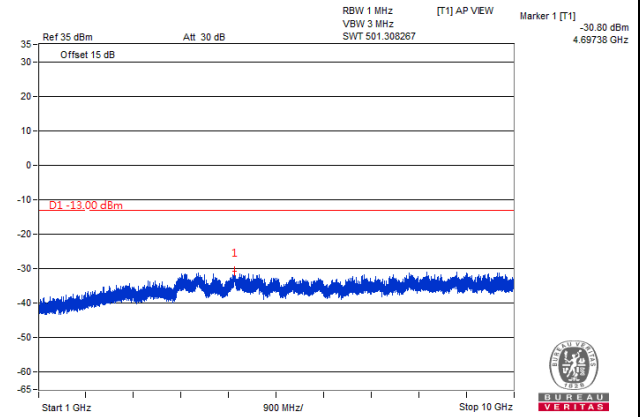
QPSK

Channel 23181

Frequency Range: 30 MHz ~ 1 GHz

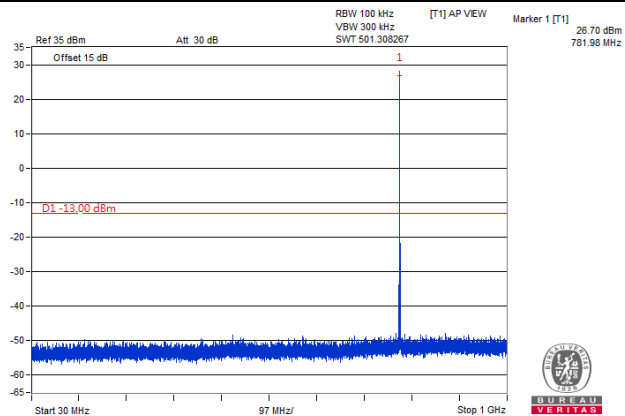


Frequency Range: 1 GHz ~ 10 GHz

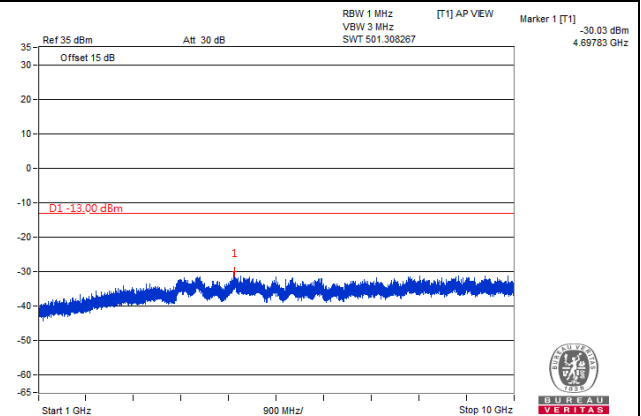


Channel 23230

Frequency Range: 30 MHz ~ 1 GHz

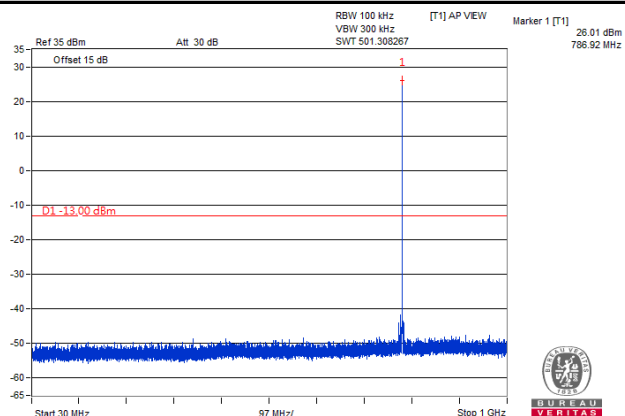


Frequency Range: 1 GHz ~ 10 GHz

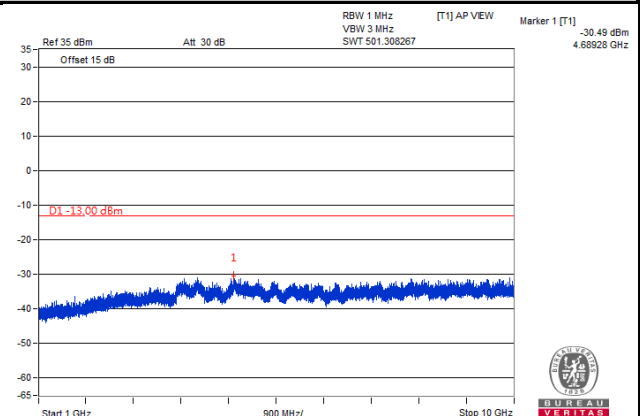


Channel 23279

Frequency Range: 30 MHz ~ 1 GHz



Frequency Range: 1 GHz ~ 10 GHz



4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

- a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The limit of emission is equal to -13 dBm.
- b. For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.

4.8.2 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

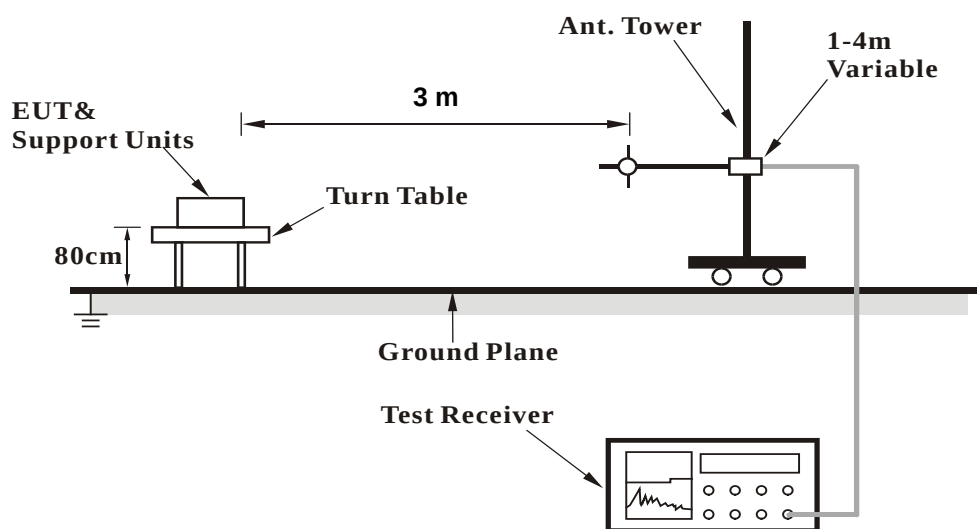
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.8.3 Deviation from Test Standard

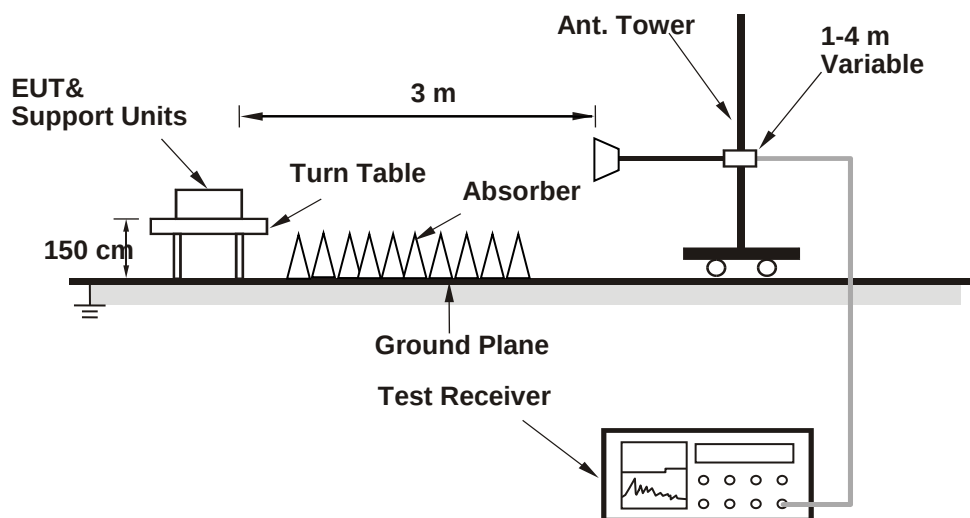
No deviation.

4.8.4 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).

4.8.5 Test Results

Cat-M1

LTE Band 4

Channel Bandwidth: 1.4 MHz / QPSK

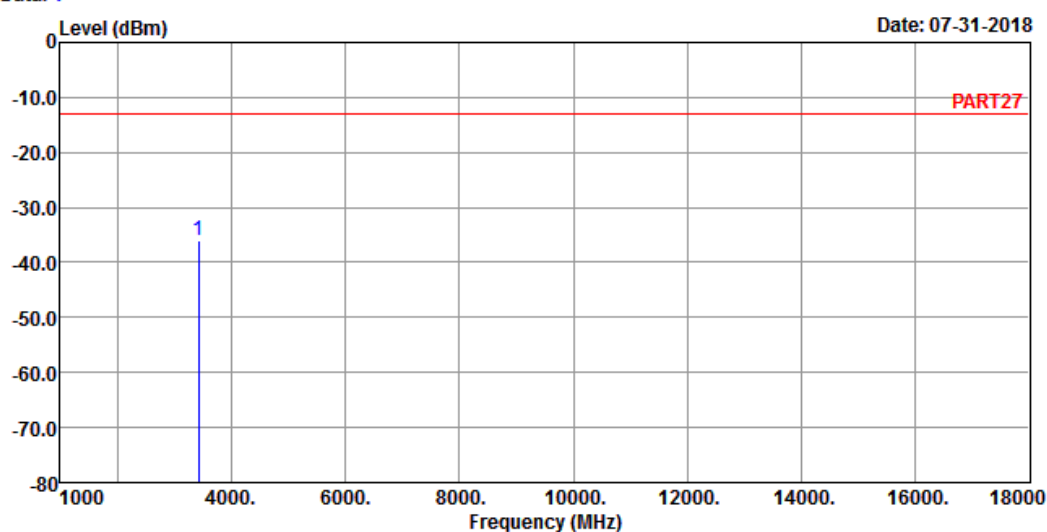
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : CAT M1 Band 4 QPSK_1.4M Link_L-CH

Tested by: Thomas Wei

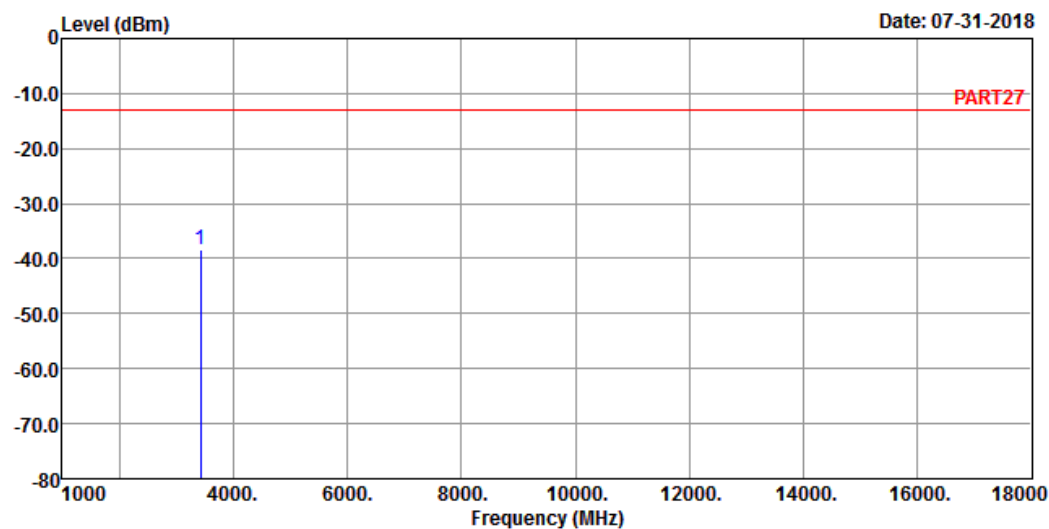
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3421.40	-35.87	-27.53	-13.00	-22.87	-8.34	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_1.4M Link_L-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3421.40	-38.30	-29.96	-13.00	-25.30	-8.34	Peak

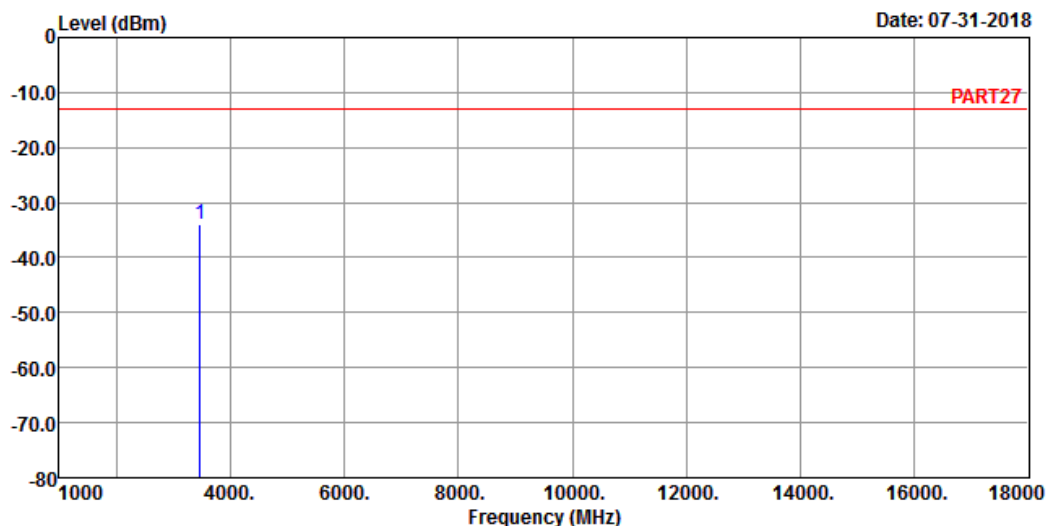
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_1.4M Link_M-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3465.00 -33.91 -26.03 -13.00 -20.91 -7.88 Peak

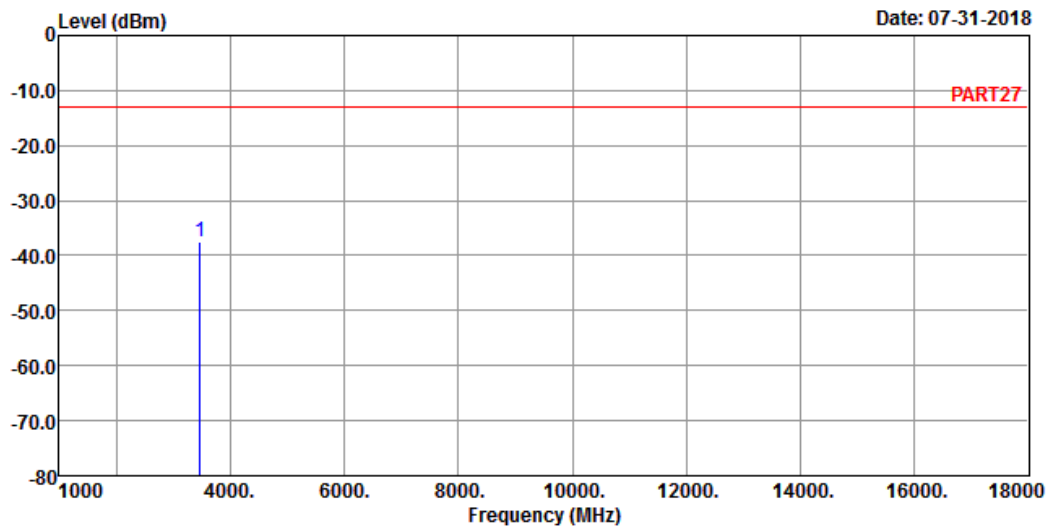


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_1.4M Link_M-CH
 Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-37.54	-29.66	-13.00	-24.54	-7.88	Peak

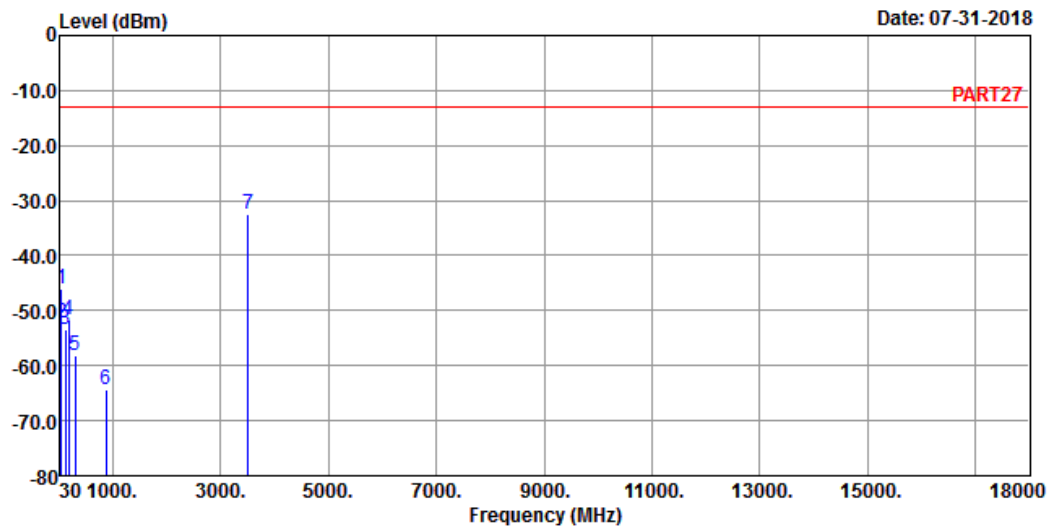
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_1.4M Link_H-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-45.94	-43.95	-13.00	-32.94	-1.99	Peak
2	53.28	-52.17	-46.36	-13.00	-39.17	-5.81	Peak
3	128.94	-53.45	-44.64	-13.00	-40.45	-8.81	Peak
4	191.02	-51.57	-44.39	-13.00	-38.57	-7.18	Peak
5	302.57	-58.14	-51.17	-13.00	-45.14	-6.97	Peak
6	883.60	-64.26	-64.74	-13.00	-51.26	0.48	Peak
7 pp	3508.60	-32.46	-25.01	-13.00	-19.46	-7.45	Peak

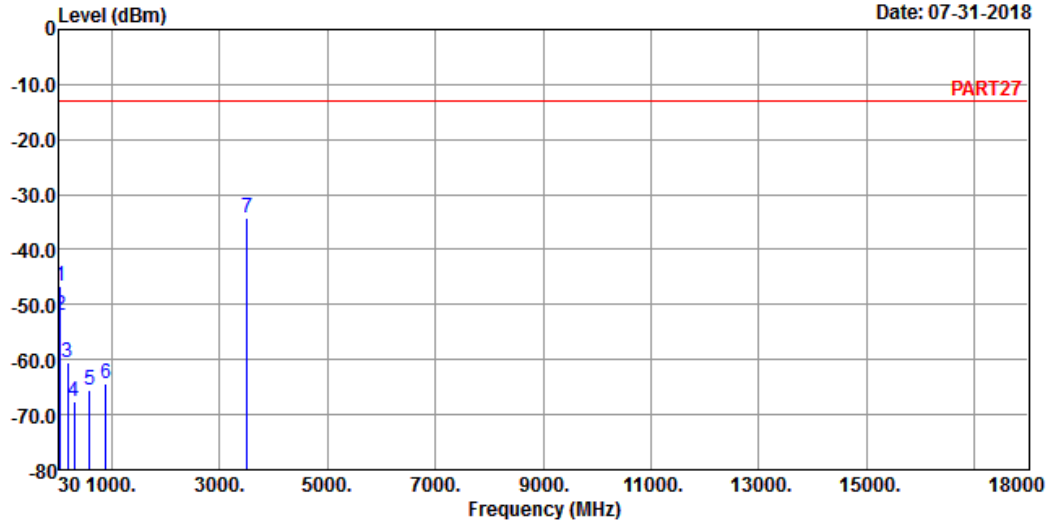


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : CAT M1 Band 4 QPSK_1.4M Link_H-CH
Tested by: Thomas Wei

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-46.51	-45.04	-13.00	-33.51	-1.47	Peak
2	52.31	-52.08	-46.54	-13.00	-39.08	-5.54	Peak
3	190.05	-60.53	-53.44	-13.00	-47.53	-7.09	Peak
4	305.48	-67.57	-60.65	-13.00	-54.57	-6.92	Peak
5	592.60	-65.46	-64.38	-13.00	-52.46	-1.08	Peak
6	886.51	-64.38	-64.88	-13.00	-51.38	0.50	Peak
7 pp	3508.60	-34.26	-26.81	-13.00	-21.26	-7.45	Peak

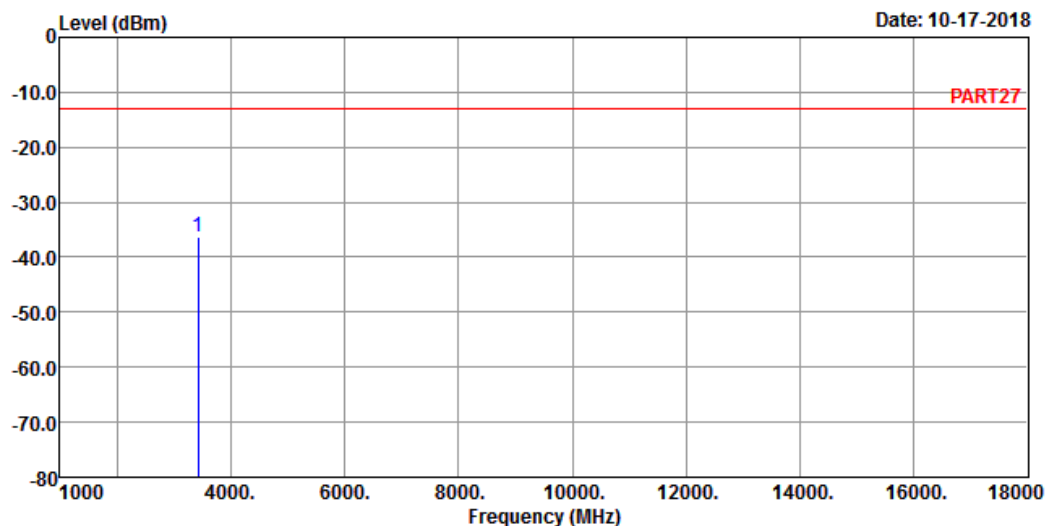
Channel Bandwidth: 3 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_3M Link_L-CH
Tested by: Thomas Wei

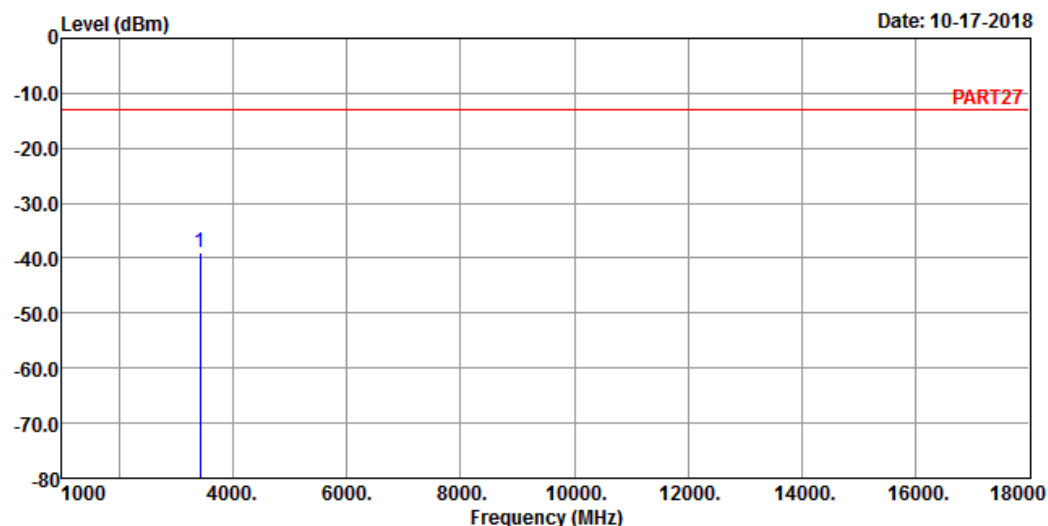
Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	
1 pp 3423.00	-36.23	-27.89	-13.00	-23.23	-8.34	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_3M Link_L-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3423.00	-38.85	-30.51	-13.00	-25.85	-8.34	Peak

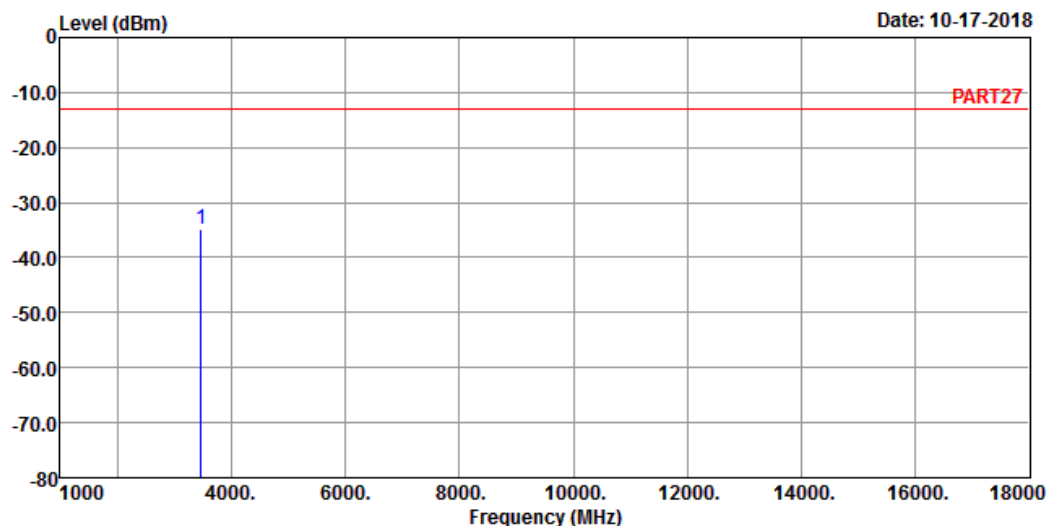
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_3M Link_M-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3465.00 -34.85 -26.97 -13.00 -21.85 -7.88 Peak

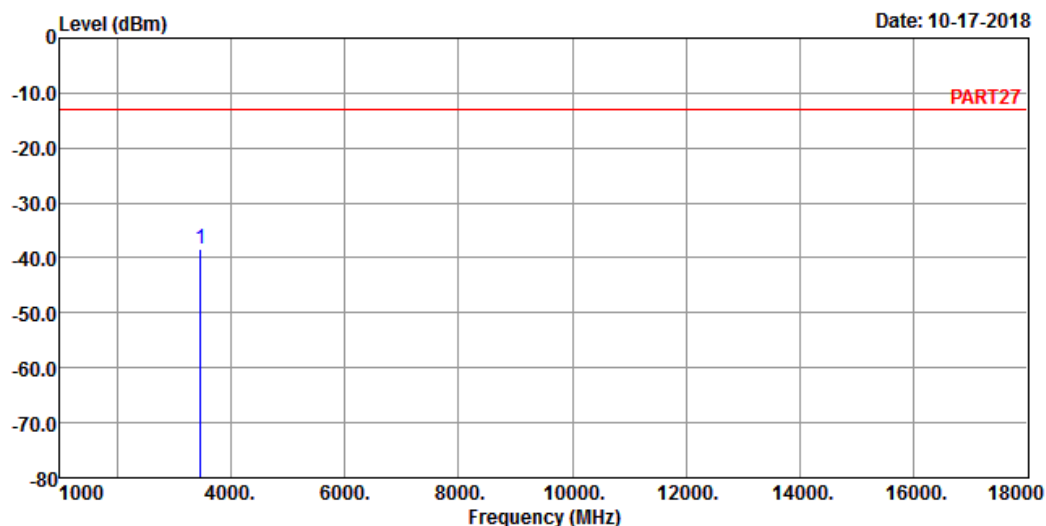


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_3M Link_M-CH

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-38.26	-30.38	-13.00	-25.26	-7.88	Peak

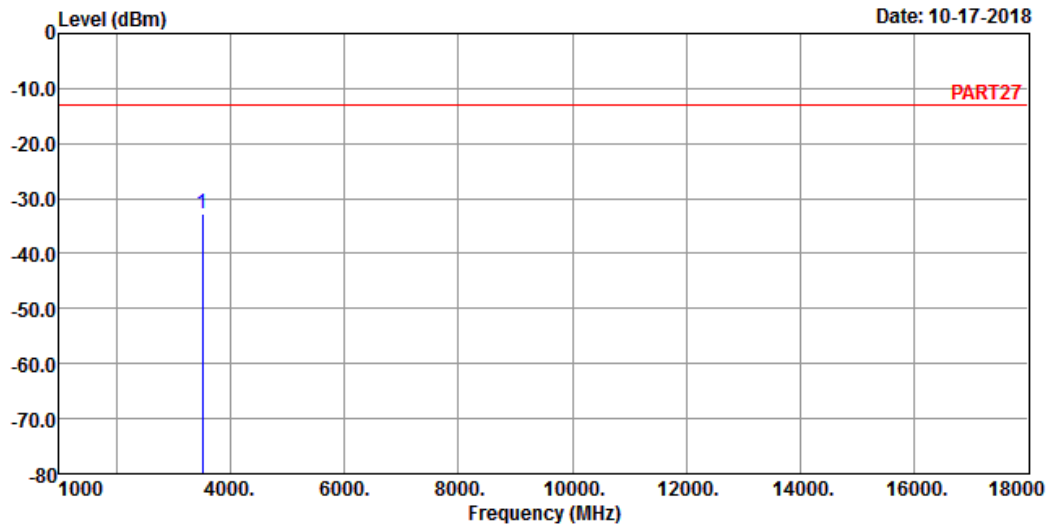
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_3M Link_H-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

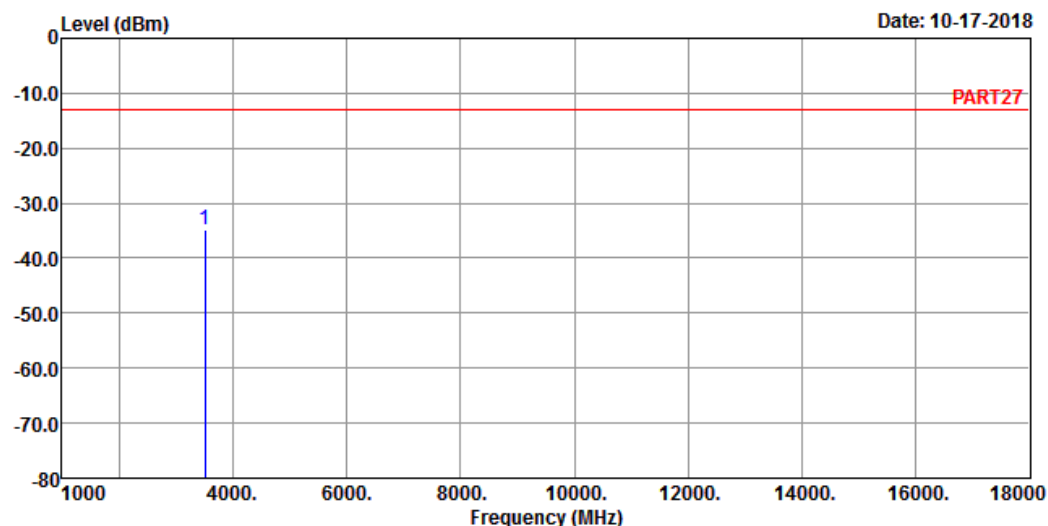
1 pp 3507.00 -32.85 -25.40 -13.00 -19.85 -7.45 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_3M Link_H-CH

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3507.00	-34.96	-27.51	-13.00	-21.96	-7.45	Peak

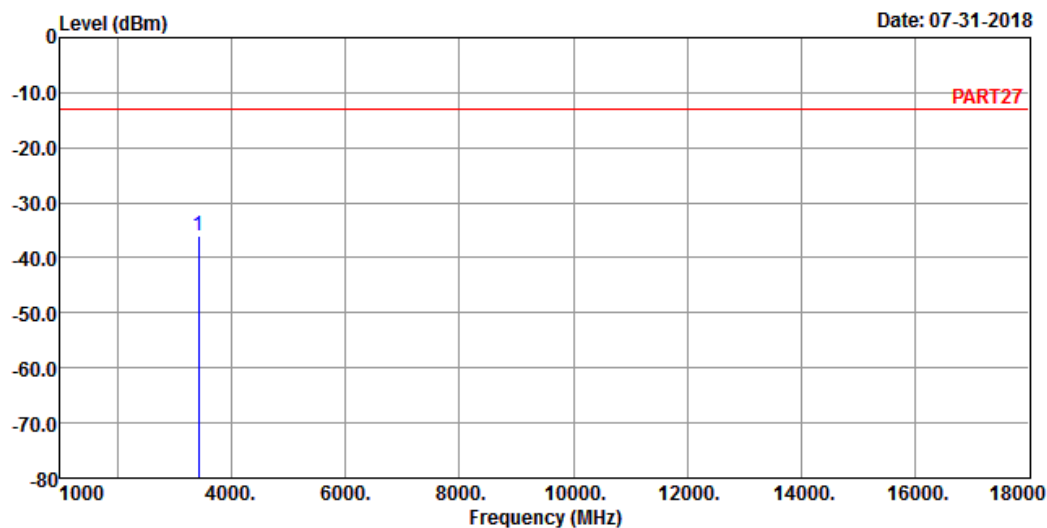
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_5M Link_L-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

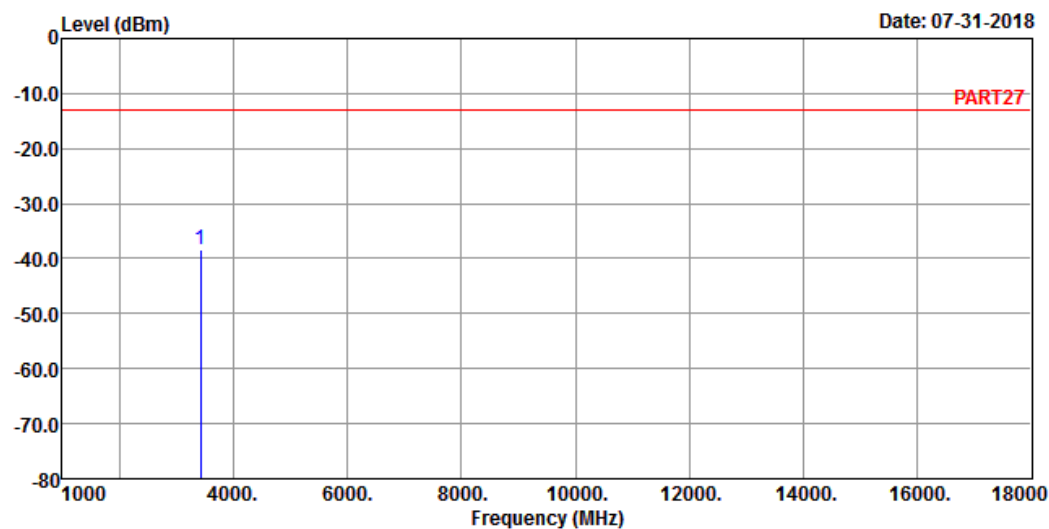
1 pp 3425.00 -36.12 -27.78 -13.00 -23.12 -8.34 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3425.00	-38.49	-30.15	-13.00	-25.49	-8.34	Peak

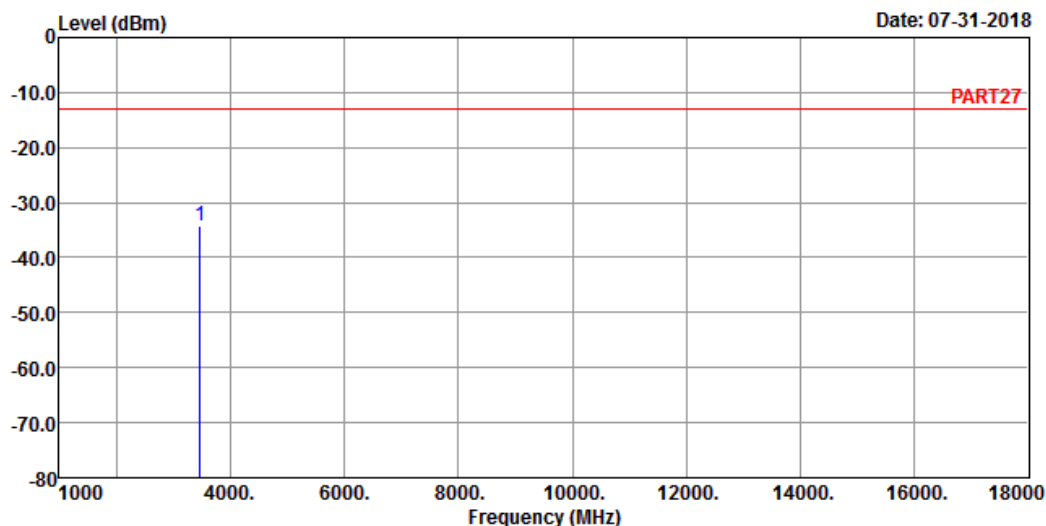
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_5M Link_M-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

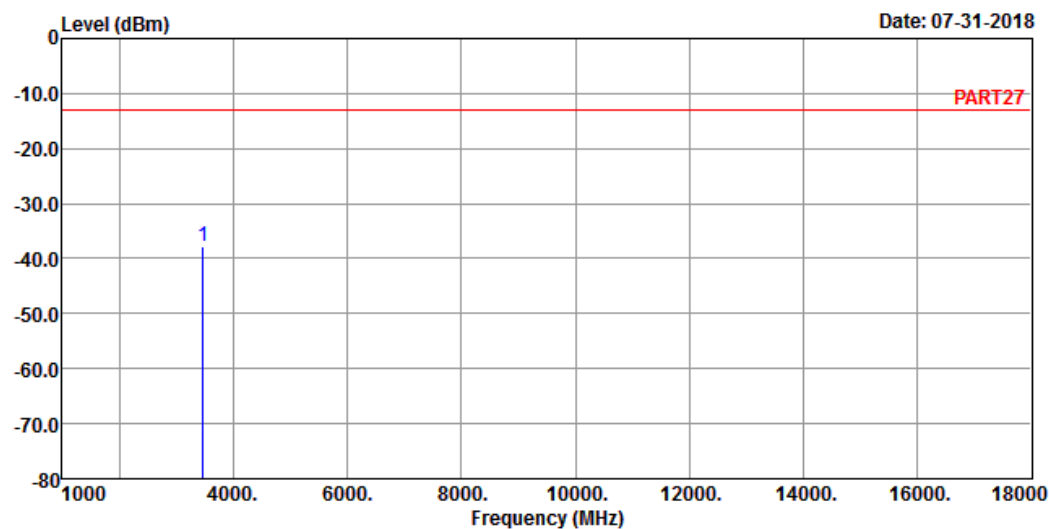
1 pp 3465.00 -34.33 -26.45 -13.00 -21.33 -7.88 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_5M Link_M-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-37.67	-29.79	-13.00	-24.67	-7.88	Peak

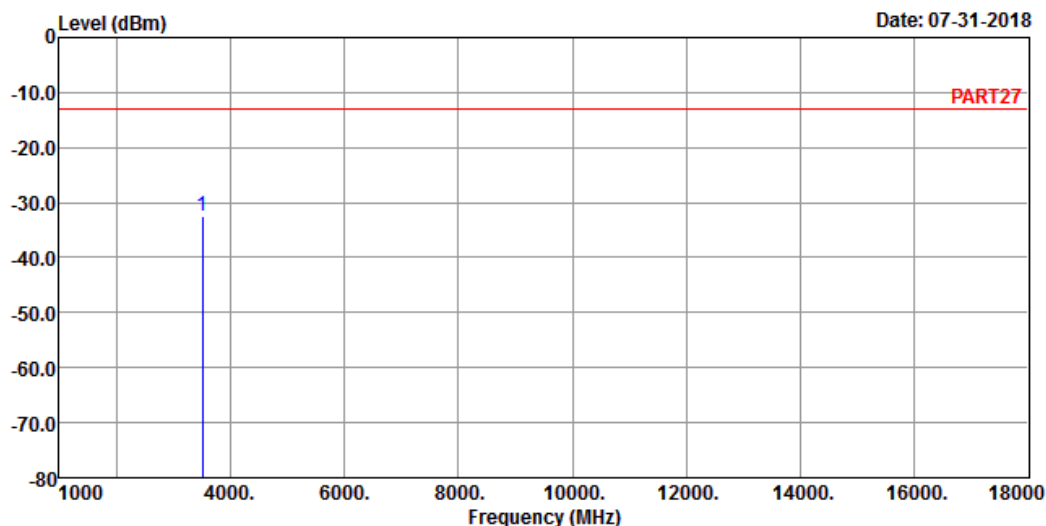
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_5M Link_H-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3505.00 -32.58 -25.13 -13.00 -19.58 -7.45 Peak

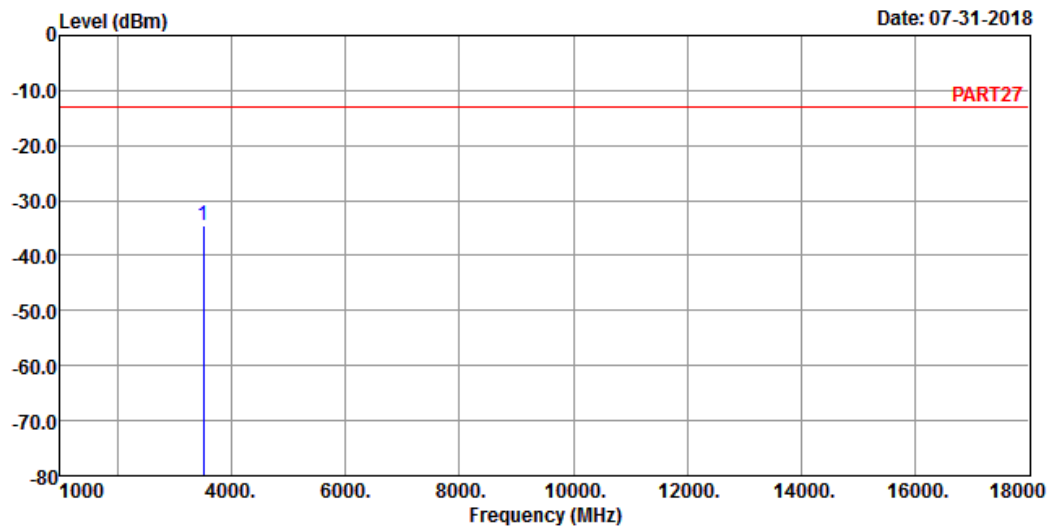


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_5M Link_H-CH

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3505.00	-34.48	-27.03	-13.00	-21.48	-7.45	Peak

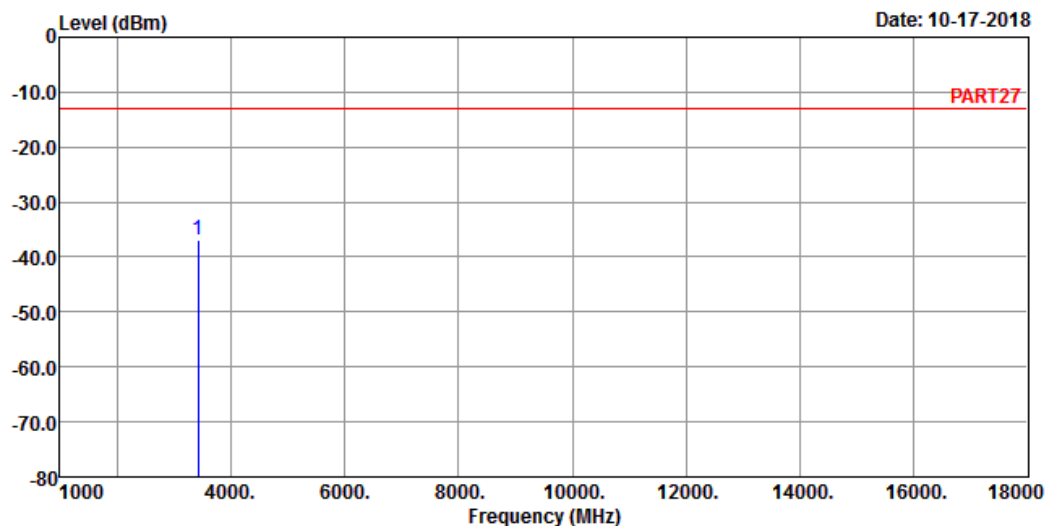
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_10M Link_L-CH
Tested by: Thomas Wei

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3430.00	-36.95	-28.61	-13.00	-23.95	-8.34	Peak

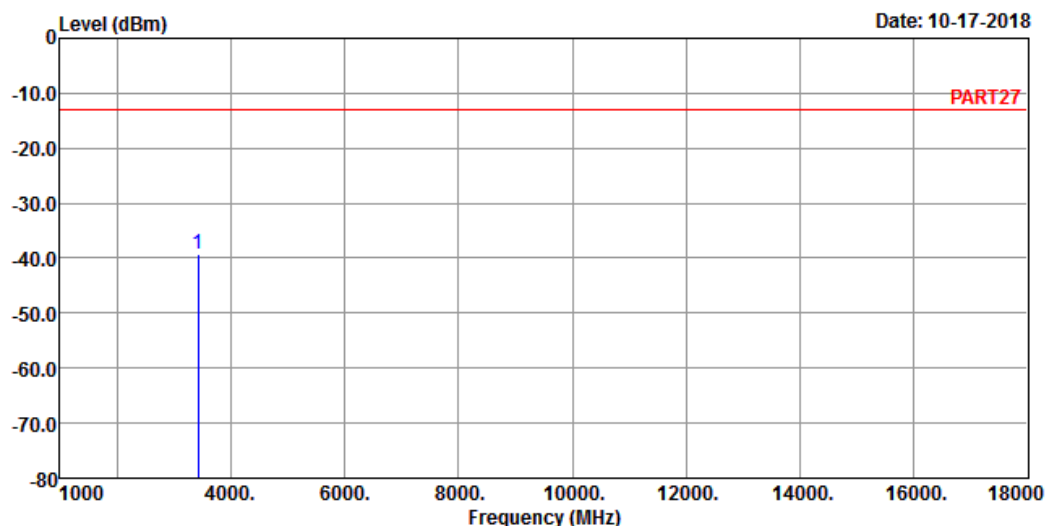


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_10M Link_L-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3430.00	-39.25	-30.91	-13.00	-26.25	-8.34	Peak

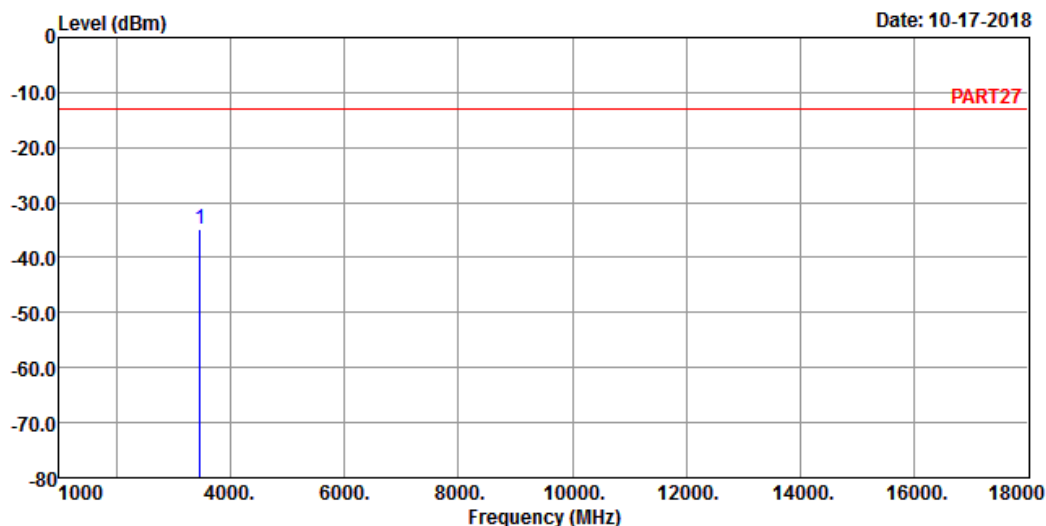
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_10M Link_M-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3465.00 -34.85 -26.97 -13.00 -21.85 -7.88 Peak

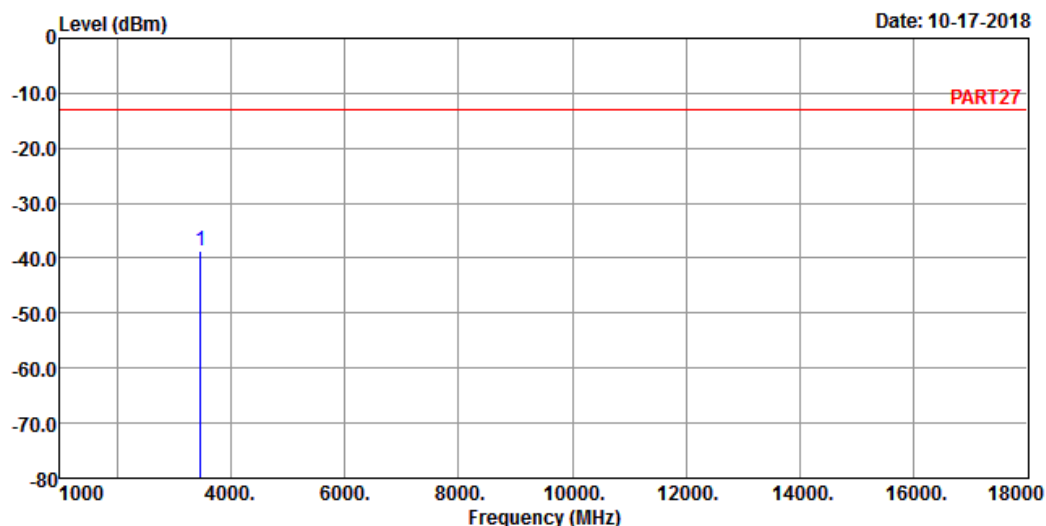


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_10M Link_M-CH

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-38.62	-30.74	-13.00	-25.62	-7.88	Peak

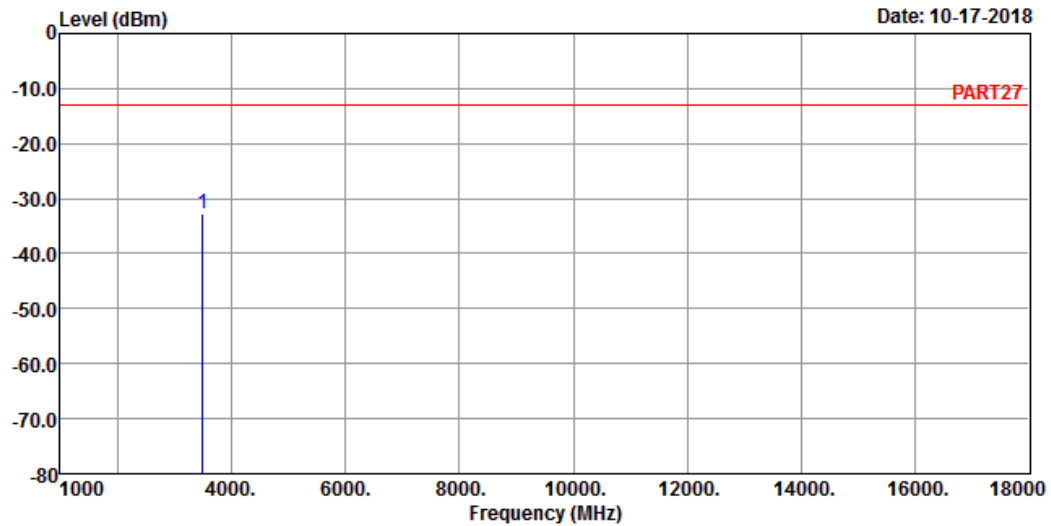
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

Freq	Level	Read		Limit		Over	Factor	Remark
		Level	Line	Level	Line	Limit		
MHz	dBm	dBm	dBm	dBm	dBm	dB	dB	

1 pp 3500.00 -32.85 -25.32 -13.00 -19.85 -7.53 Peak

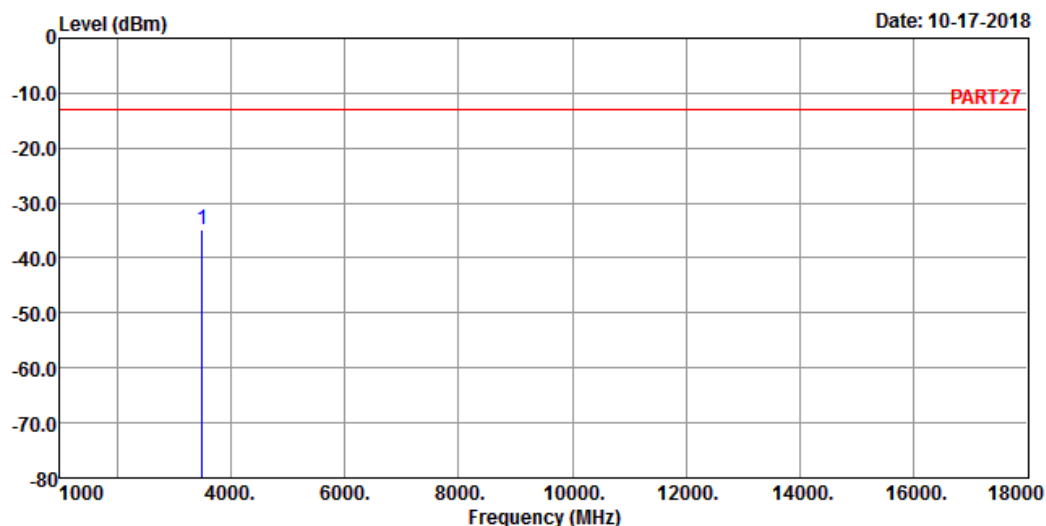


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_10M Link_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3500.00	-34.98	-27.45	-13.00	-21.98	-7.53	Peak

Channel Bandwidth: 15 MHz / QPSK
Low Channel

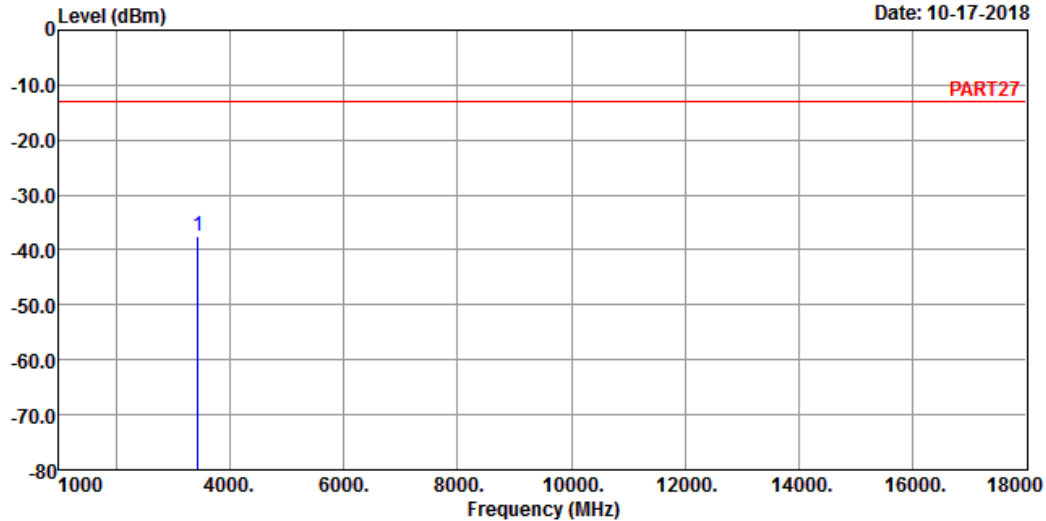


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 10-17-2018



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_15M Link_L-CH
Tested by: Thomas Wei

Freq	Level	Read	Limit	Over		
MHz	dBm	Level	Line	Limit	Factor	Remark
		dBm	dBm	dB	dB	

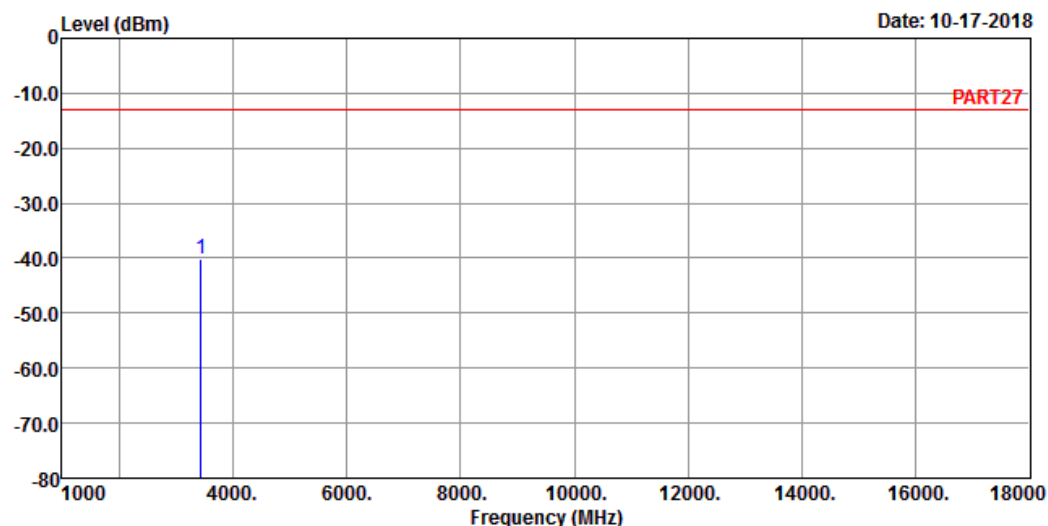
1 pp 3435.00 -37.52 -29.30 -13.00 -24.52 -8.22 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_15M Link_L-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3435.00	-40.01	-31.79	-13.00	-27.01	-8.22	Peak

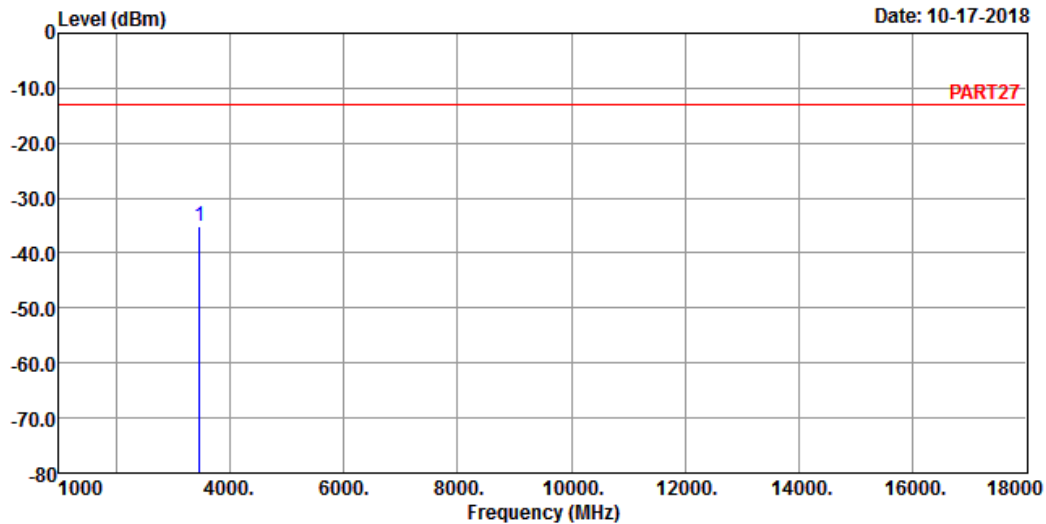
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

Freq	Level	Read Limit		Over		Factor	Remark
		Level	Line	Limit	Limit		
MHz	dBm	dBm	dBm	dB	dB	dB	

1 pp 3465.00 -35.25 -27.37 -13.00 -22.25 -7.88 Peak

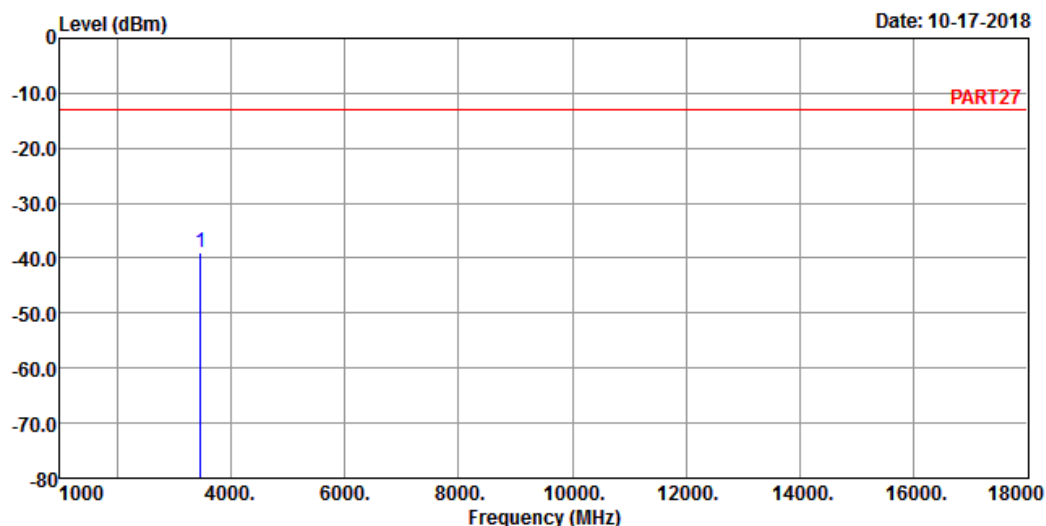


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : CAT M1 Band 4 QPSK_10M Link_M-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-39.01	-31.13	-13.00	-26.01	-7.88	Peak

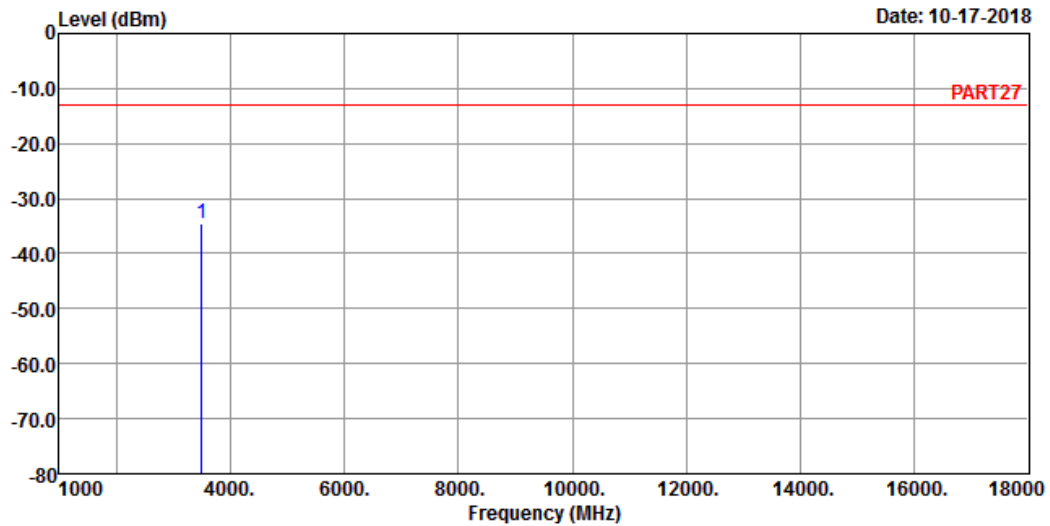
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_15M Link_H-CH
 Tested by: Thomas Wei

Freq	Level	Read		Limit		Over	Factor	Remark
		Level	Line	Level	Line	Limit		
MHz	dBm	dBm	dBm	dBm	dB	dB		
1 pp 3495.00	-34.52	-26.99	-13.00	-21.52	-7.53		Peak	

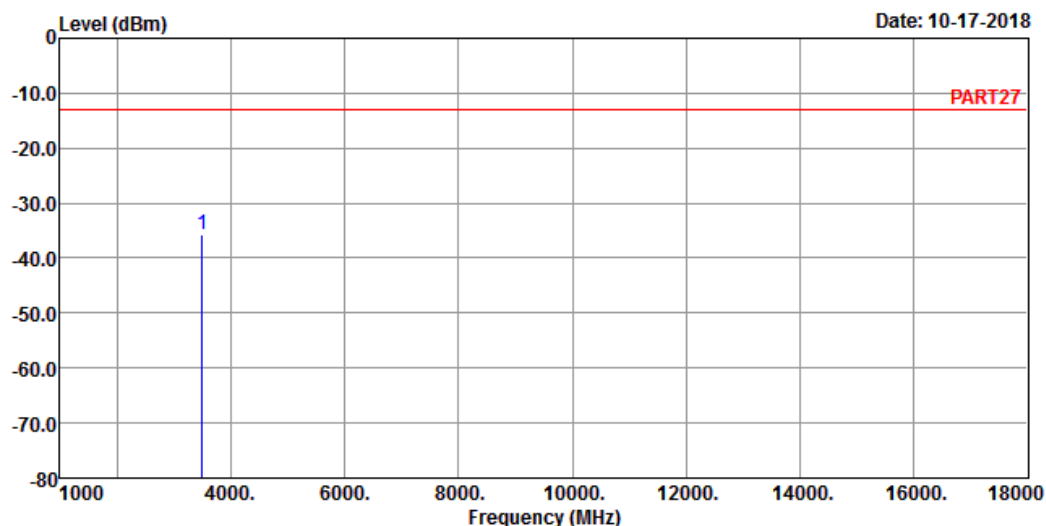


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_15M Link_H-CH

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3495.00	-35.62	-28.09	-13.00	-22.62	-7.53	Peak

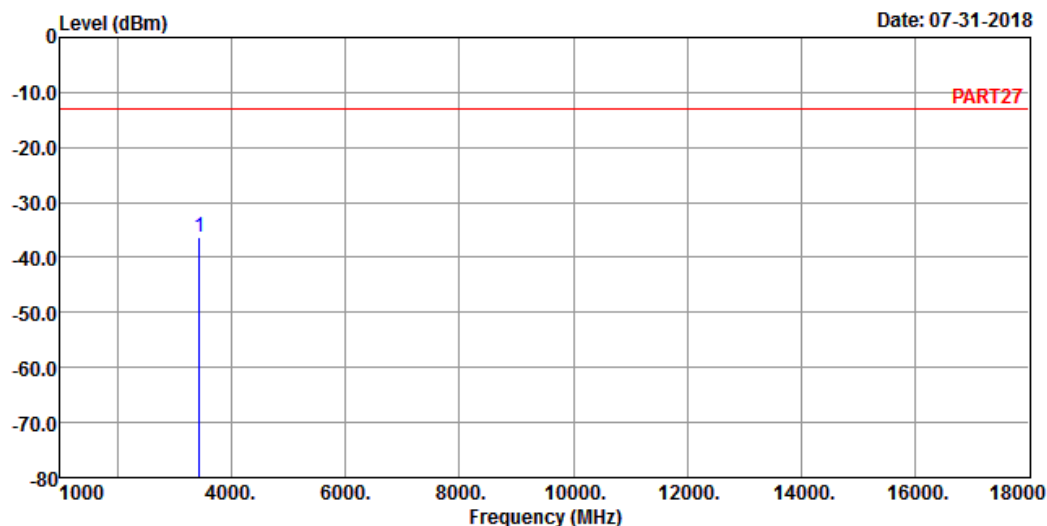
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_20M Link_L-CH
Tested by: Thomas Wei

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3440.00	-36.30	-28.08	-13.00	-23.30	-8.22	Peak

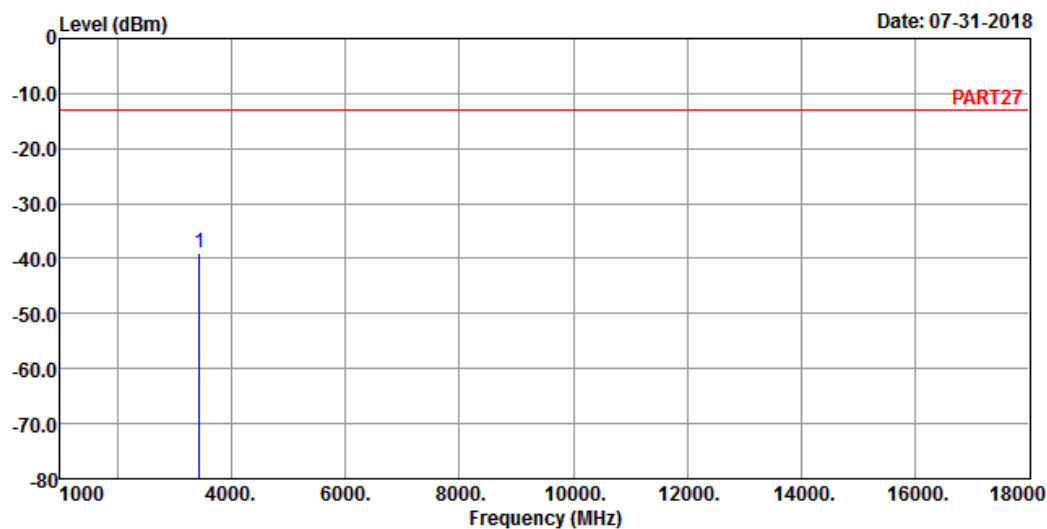


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : CAT M1 Band 4 QPSK_20M Link_L-CH

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3440.00	-38.99	-30.77	-13.00	-25.99	-8.22	Peak

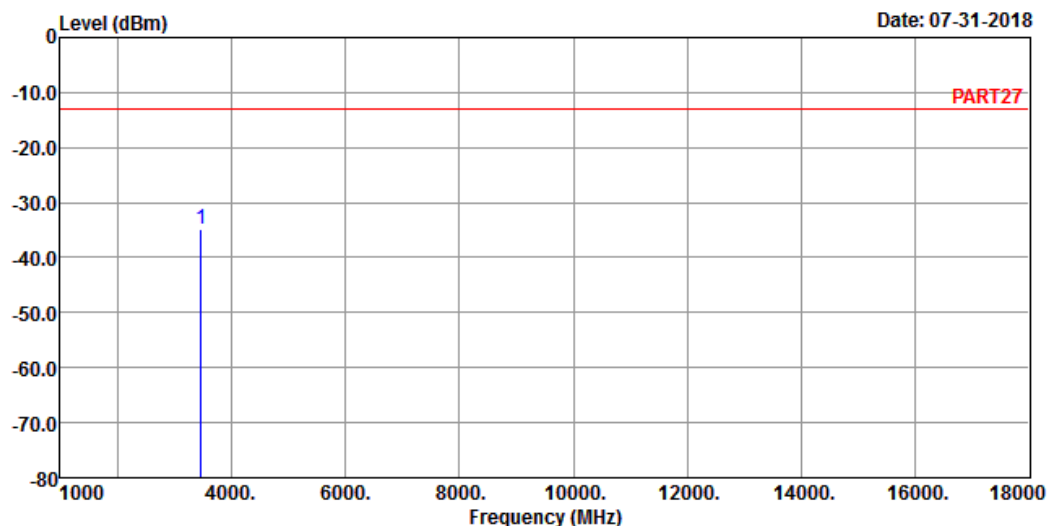
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : CAT M1 Band 4 QPSK_20M Link_M-CH
Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 3465.00 -34.78 -26.90 -13.00 -21.78 -7.88 Peak

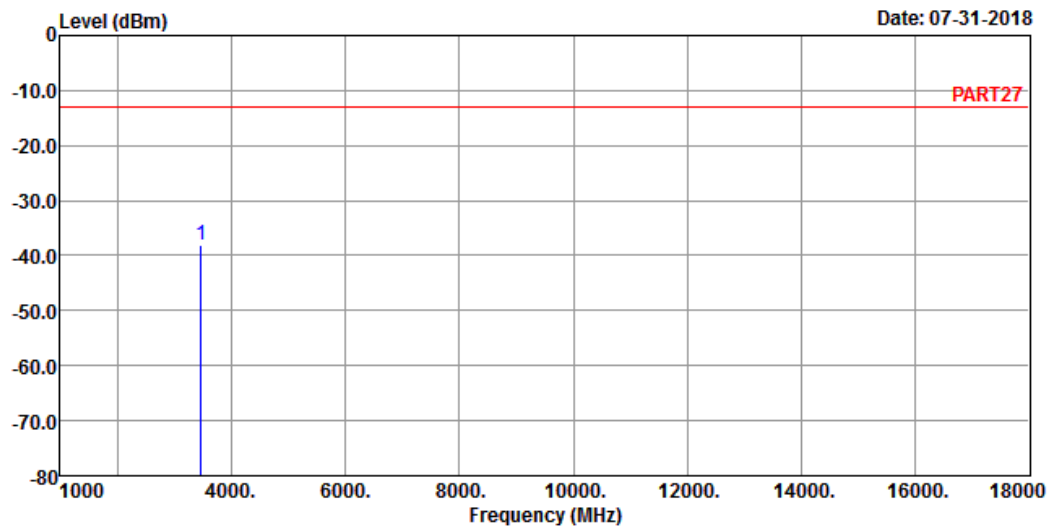


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_20M Link_M-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3465.00	-38.08	-30.20	-13.00	-25.08	-7.88	Peak

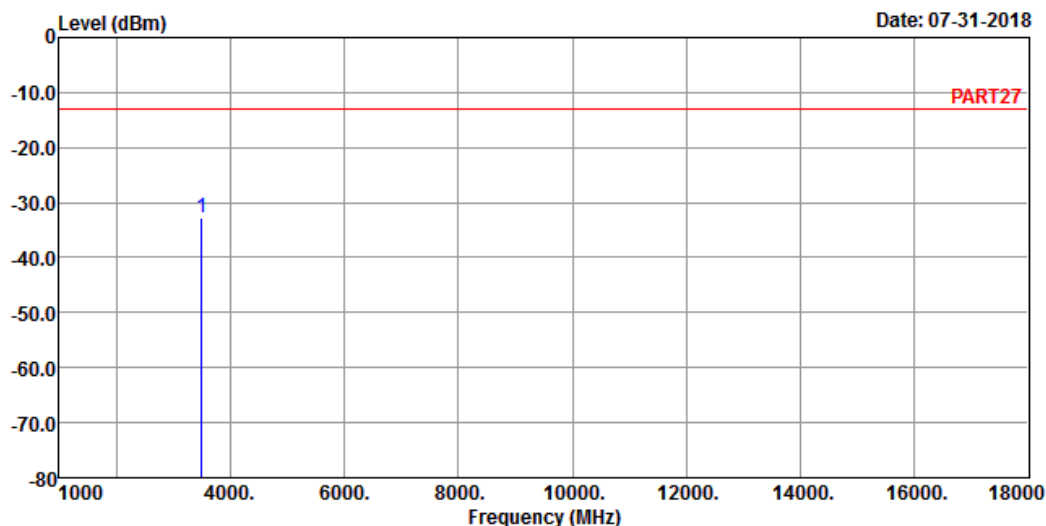
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : CAT M1 Band 4 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

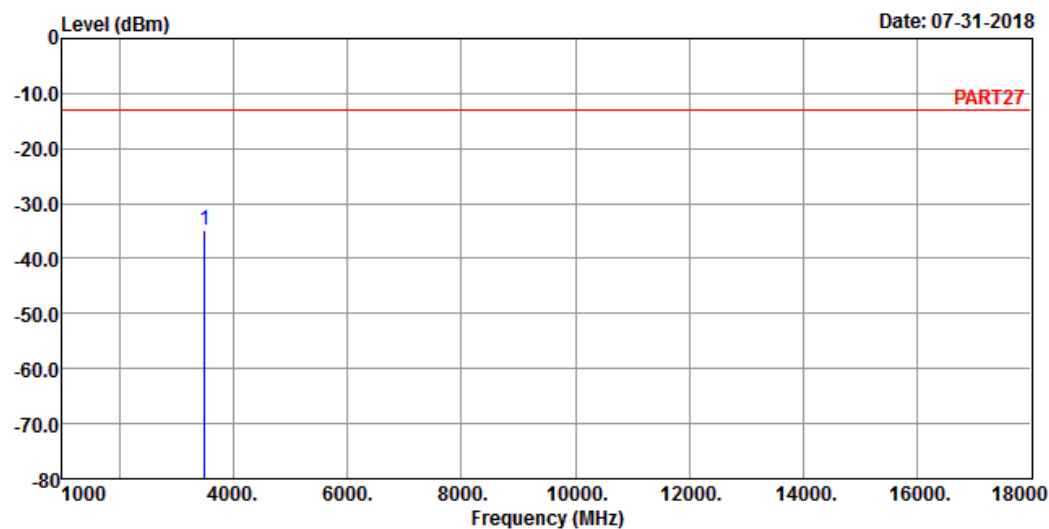
1 pp 3490.00 -32.68 -25.03 -13.00 -19.68 -7.65 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : CAT M1 Band 4 QPSK_20M Link_H-CH
 Tested by: Thomas Wei

Freq	Level	Read	Limit	Over		Factor	Remark
		Level	Line	Limit	Limit		
MHz	dBm	dBm	dBm	dB	dB	dB	
1 pp 3490.00	-34.85	-27.20	-13.00	-21.85	-7.65		Peak

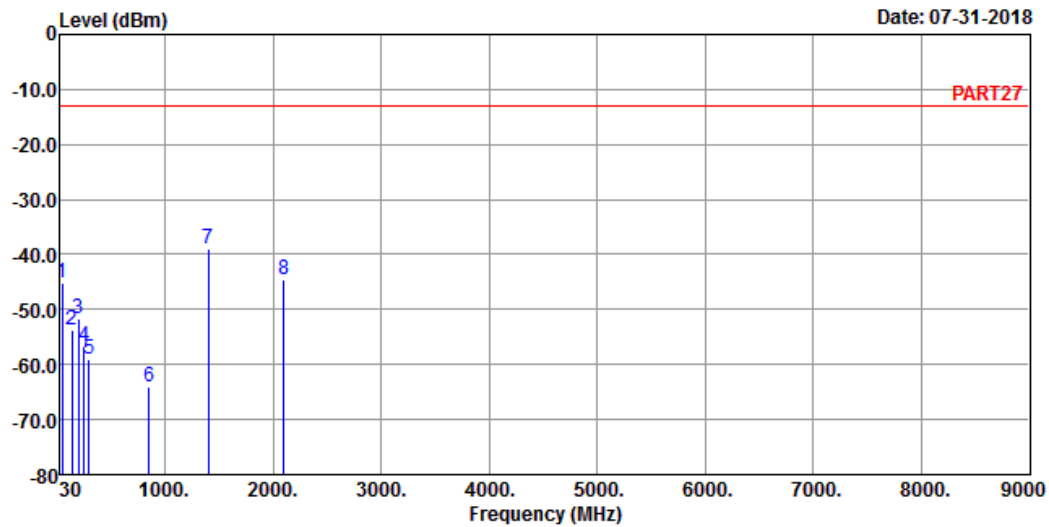
LTE Band 12
Channel Bandwidth: 1.4 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_1.4M Link_L-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-45.07	-43.08	-13.00	-32.07	-1.99	Peak
2	137.67	-53.83	-45.17	-13.00	-40.83	-8.66	Peak
3	193.93	-51.78	-44.32	-13.00	-38.78	-7.46	Peak
4	253.10	-56.59	-50.54	-13.00	-43.59	-6.05	Peak
5	296.75	-58.90	-51.95	-13.00	-45.90	-6.95	Peak
6	853.53	-64.10	-64.41	-13.00	-51.10	0.31	Peak
7 pp	1399.40	-38.97	-27.12	-13.00	-25.97	-11.85	Peak
8	2099.10	-44.45	-34.29	-13.00	-31.45	-10.16	Peak

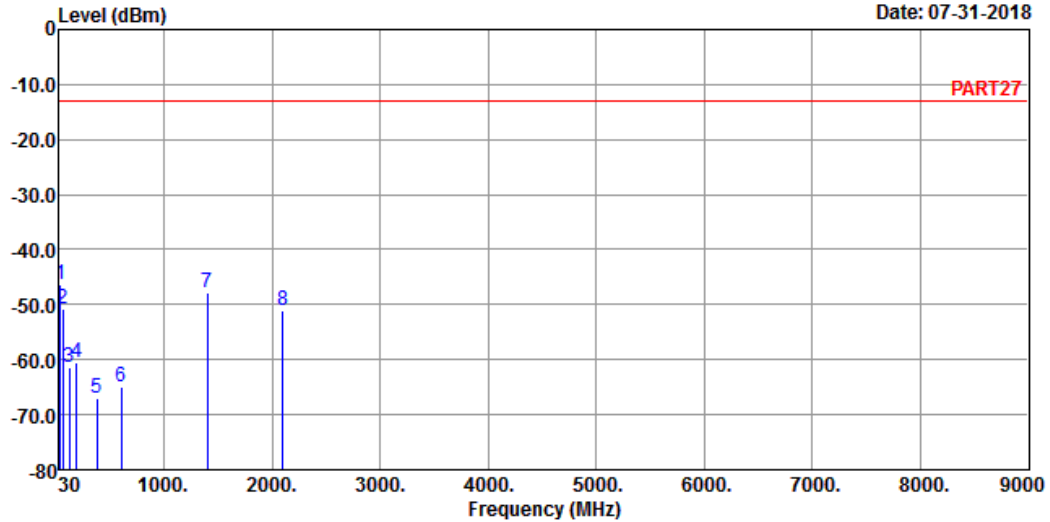


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_1.4M Link_L-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-46.39	-45.45	-13.00	-33.39	-0.94	Peak
2	59.10	-50.85	-43.45	-13.00	-37.85	-7.40	Peak
3	122.15	-61.29	-51.67	-13.00	-48.29	-9.62	Peak
4	189.08	-60.56	-53.44	-13.00	-47.56	-7.12	Peak
5	376.29	-67.10	-61.02	-13.00	-54.10	-6.08	Peak
6	601.33	-64.84	-64.08	-13.00	-51.84	-0.76	Peak
7	1399.40	-47.70	-35.85	-13.00	-34.70	-11.85	Peak
8	2099.10	-51.13	-40.97	-13.00	-38.13	-10.16	Peak

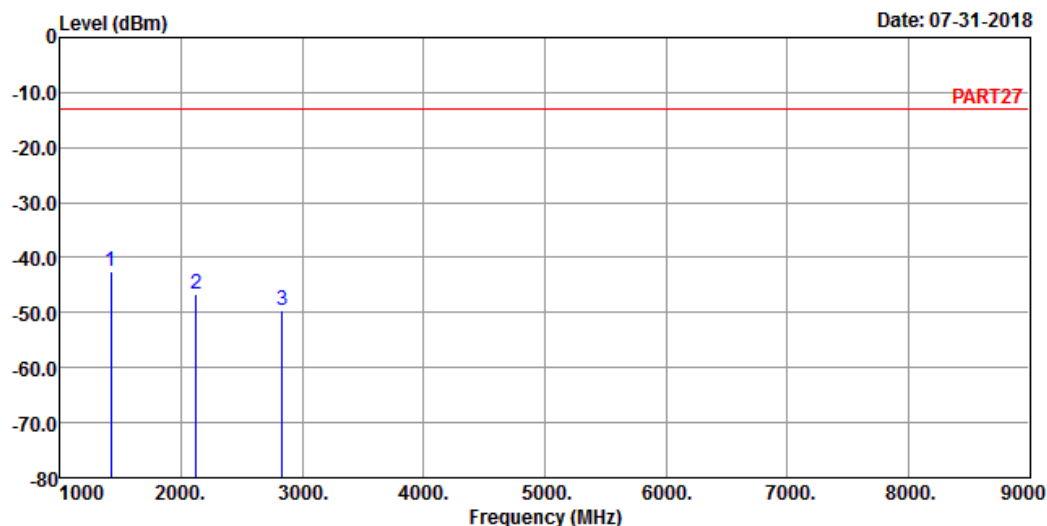
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_1.4M Link_M-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-42.41	-30.33	-13.00	-29.41	-12.08	Peak
2	2122.50	-46.70	-36.83	-13.00	-33.70	-9.87	Peak
3	2830.00	-49.54	-41.06	-13.00	-36.54	-8.48	Peak

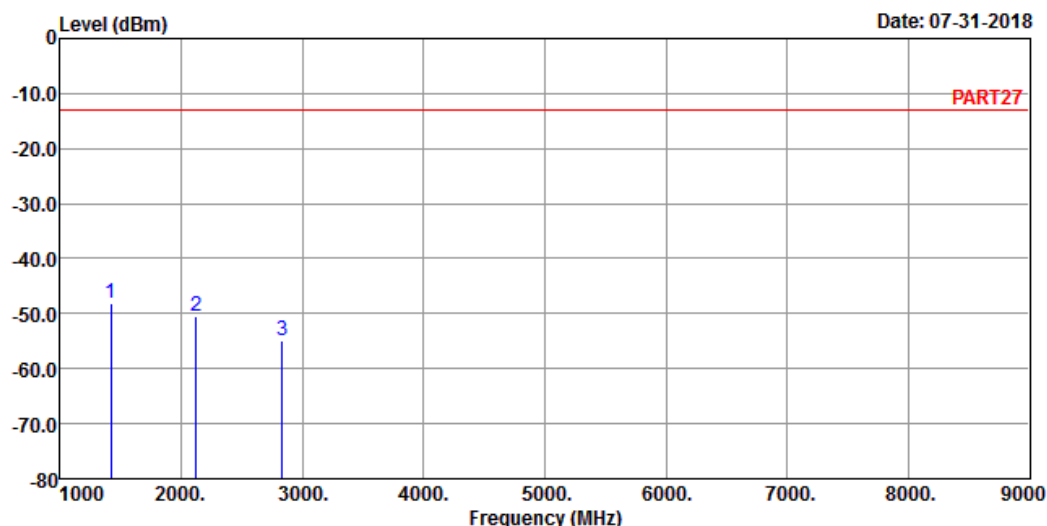


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_1.4M Link_M-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-48.11	-36.03	-13.00	-35.11	-12.08	Peak
2	2122.50	-50.38	-40.51	-13.00	-37.38	-9.87	Peak
3	2830.00	-54.91	-46.43	-13.00	-41.91	-8.48	Peak

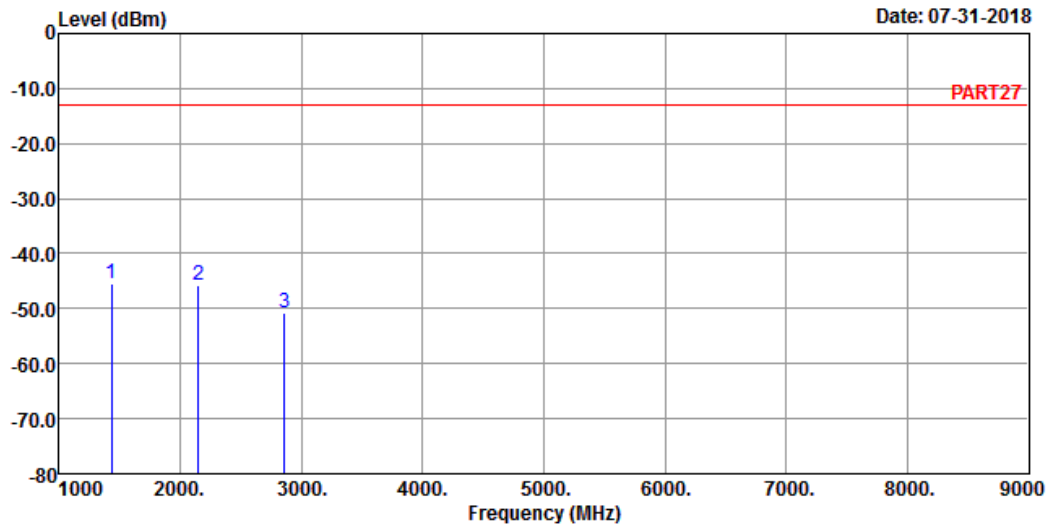
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_1.4M Link_H-CH
 Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1430.60	-45.53	-33.22	-13.00	-32.53	-12.31	Peak
2	2145.90	-45.83	-36.36	-13.00	-32.83	-9.47	Peak
3	2861.20	-50.68	-42.25	-13.00	-37.68	-8.43	Peak

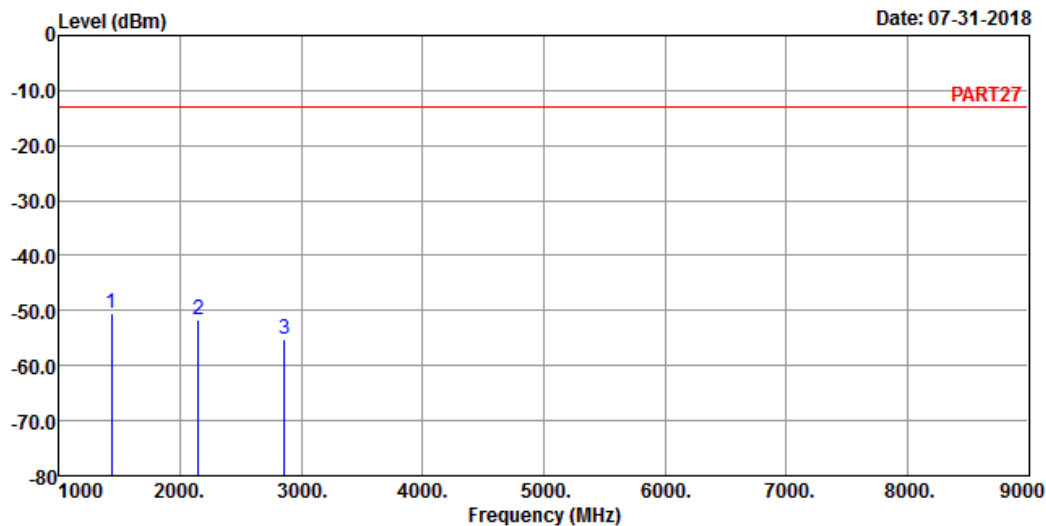


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_1.4M Link_H-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1430.60	-50.61	-38.30	-13.00	-37.61	-12.31	Peak
2	2145.90	-51.59	-42.12	-13.00	-38.59	-9.47	Peak
3	2861.20	-55.09	-46.66	-13.00	-42.09	-8.43	Peak

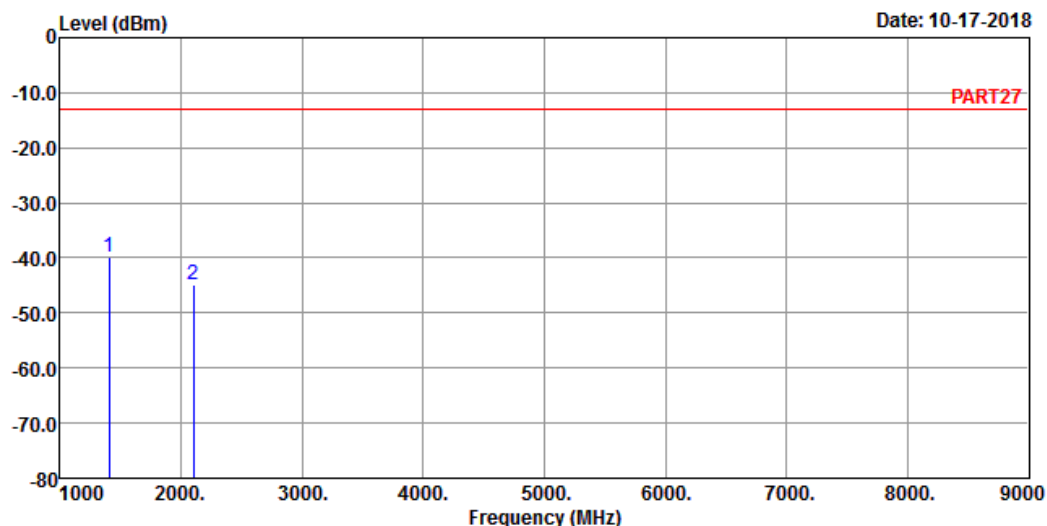
Channel Bandwidth: 3 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_3M Link_L-CH
Tested by: Thomas Wei

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1401.00	-39.99	-28.08	-13.00	-26.99	-11.91	Peak
2	2101.50	-44.85	-34.69	-13.00	-31.85	-10.16	Peak

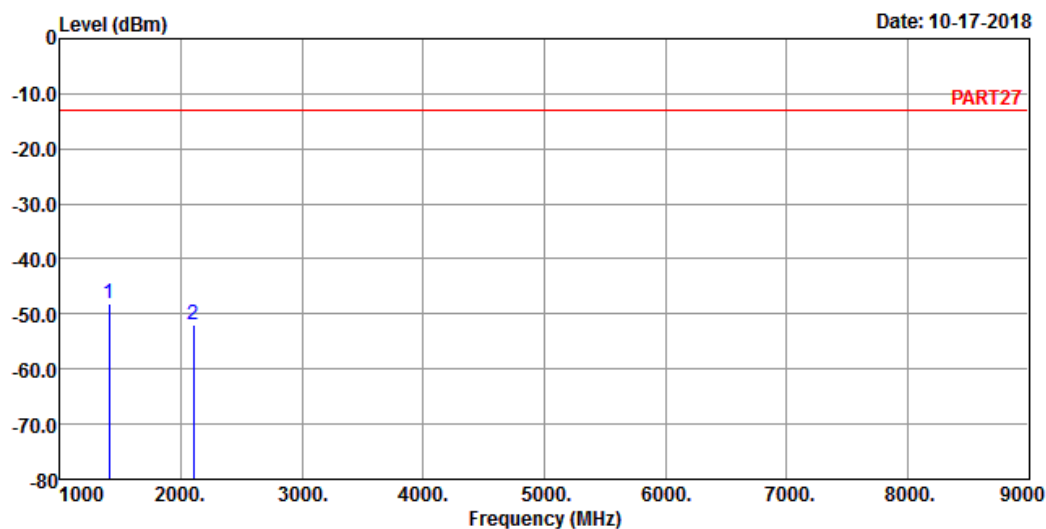


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 QPSK_3M Link_L-CH

Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1401.00	-48.23	-36.32	-13.00	-35.23	-11.91	Peak
2	2101.50	-51.85	-41.69	-13.00	-38.85	-10.16	Peak

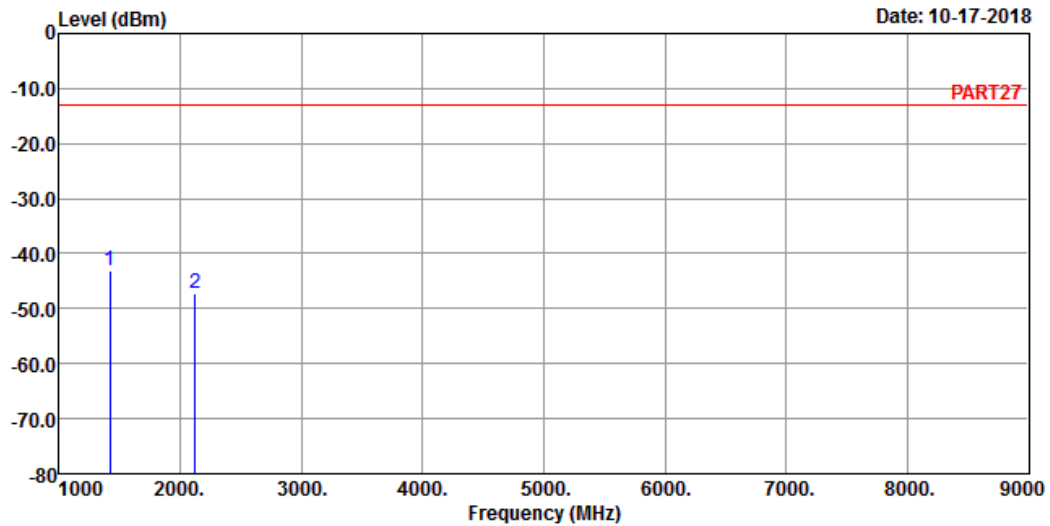
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_3M Link_M-CH
 Tested by: Thomas Wei

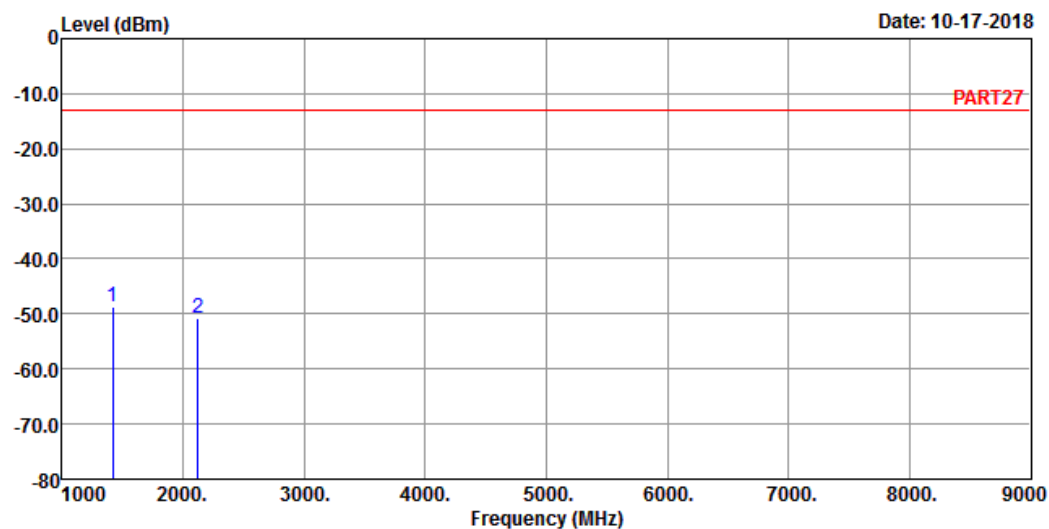
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-42.98	-30.90	-13.00	-29.98	-12.08	Peak
2	2122.50	-47.23	-37.36	-13.00	-34.23	-9.87	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_3M Link_M-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-48.85	-36.77	-13.00	-35.85	-12.08	Peak
2	2122.50	-50.79	-40.92	-13.00	-37.79	-9.87	Peak

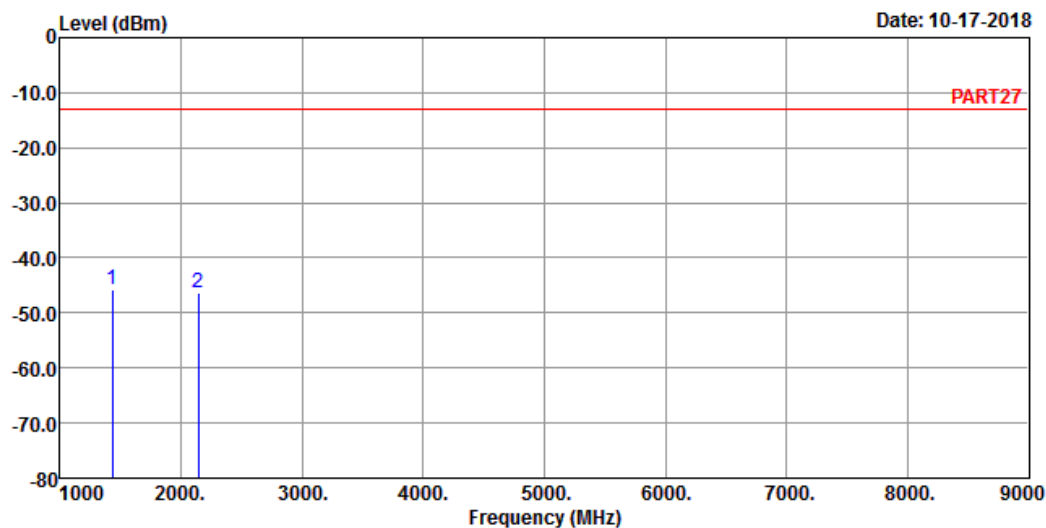
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_3M Link_H-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1429.00	-45.85	-33.60	-13.00	-32.85	-12.25	Peak
2	2143.50	-46.23	-36.76	-13.00	-33.23	-9.47	Peak

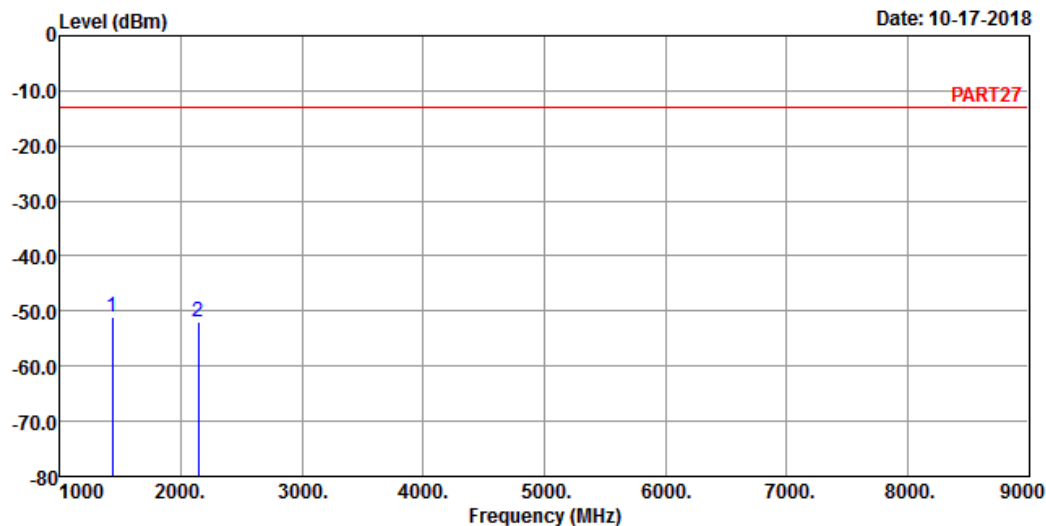


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 10-17-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 QPSK_3M Link_H-CH

Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1429.00	-50.98	-38.73	-13.00	-37.98	-12.25	Peak
2	2143.50	-51.85	-42.38	-13.00	-38.85	-9.47	Peak

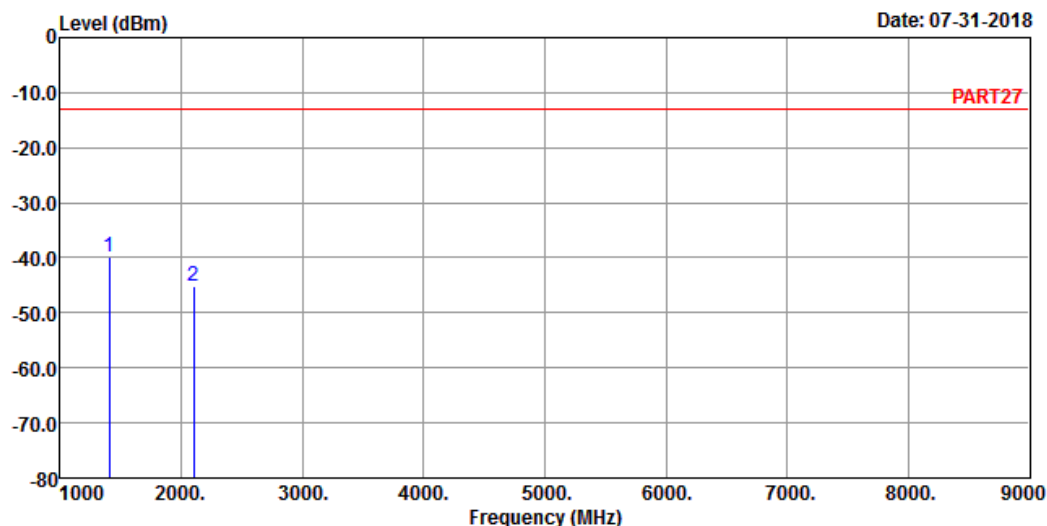
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_5M Link_L-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1403.00	-39.85	-27.94	-13.00	-26.85	-11.91	Peak
2	2104.50	-45.12	-34.96	-13.00	-32.12	-10.16	Peak

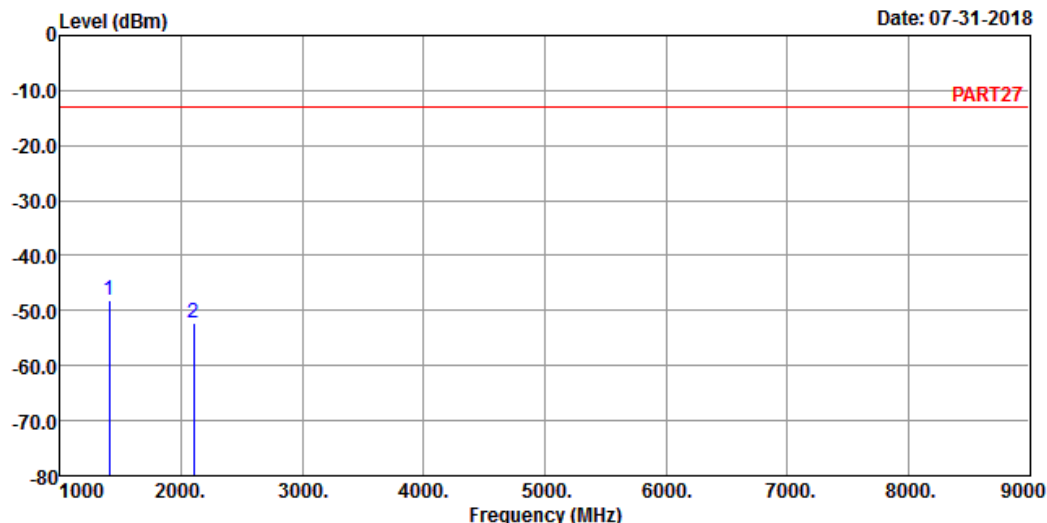


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 QPSK_5M Link_L-CH

Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1403.00	-48.21	-36.30	-13.00	-35.21	-11.91	Peak
2	2104.50	-52.13	-41.97	-13.00	-39.13	-10.16	Peak

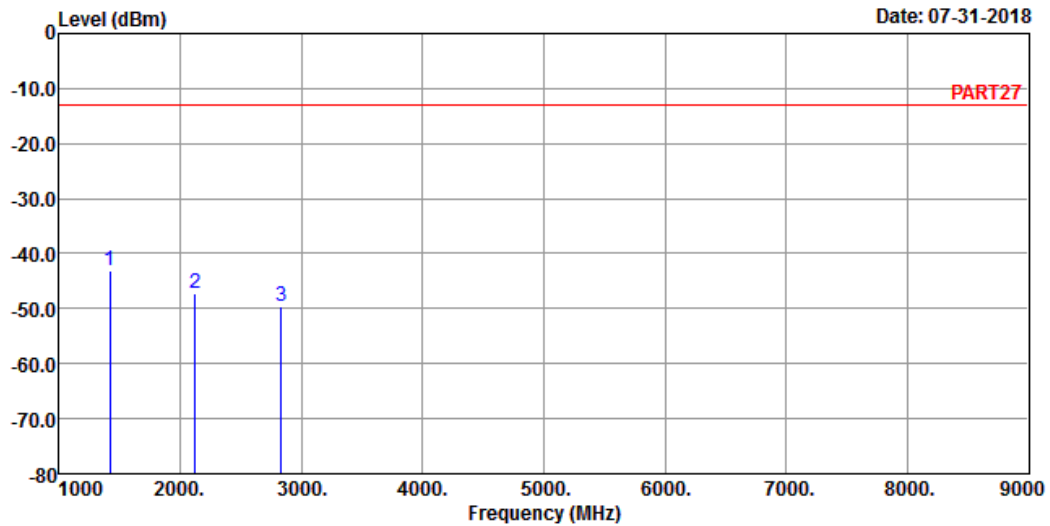
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_5M Link_M-CH
 Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-42.98	-30.90	-13.00	-29.98	-12.08	Peak
2	2122.50	-47.12	-37.25	-13.00	-34.12	-9.87	Peak
3	2830.00	-49.52	-41.04	-13.00	-36.52	-8.48	Peak

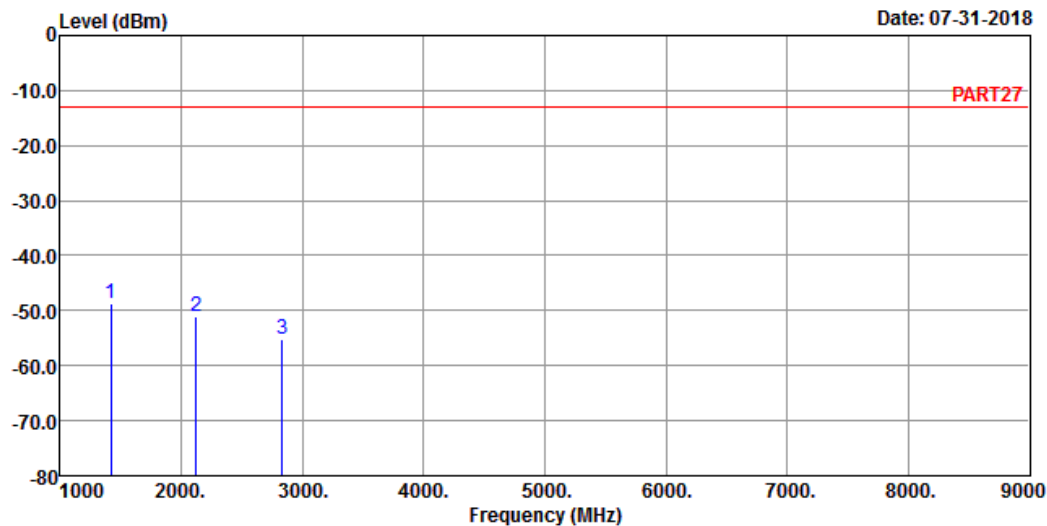


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 QPSK_5M Link_M-CH

Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-48.85	-36.77	-13.00	-35.85	-12.08	Peak
2	2122.50	-51.01	-41.14	-13.00	-38.01	-9.87	Peak
3	2830.00	-55.23	-46.75	-13.00	-42.23	-8.48	Peak

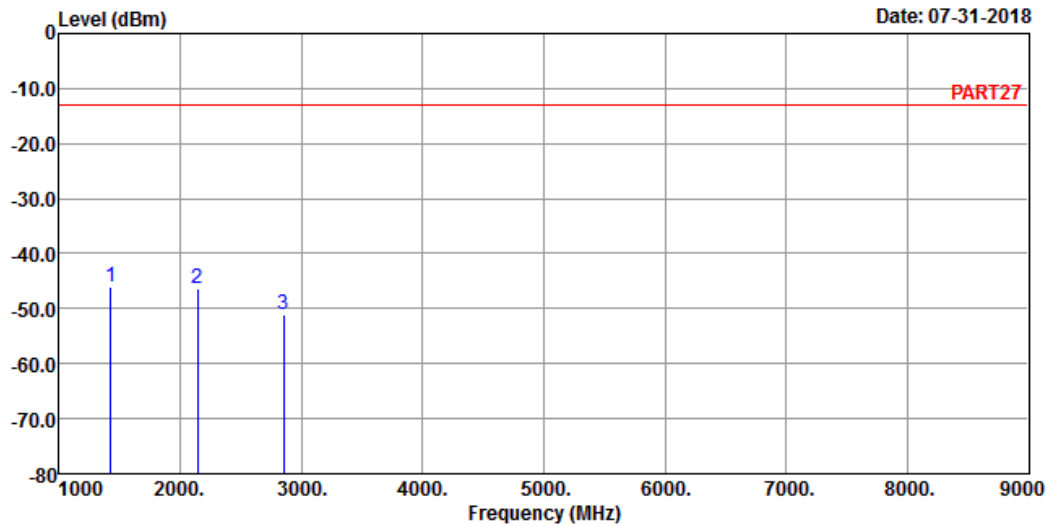
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 1427.00	-45.98	-33.73	-13.00	-32.98	-12.25	Peak
2 2140.50	-46.21	-36.64	-13.00	-33.21	-9.57	Peak
3 2854.00	-51.11	-42.67	-13.00	-38.11	-8.44	Peak

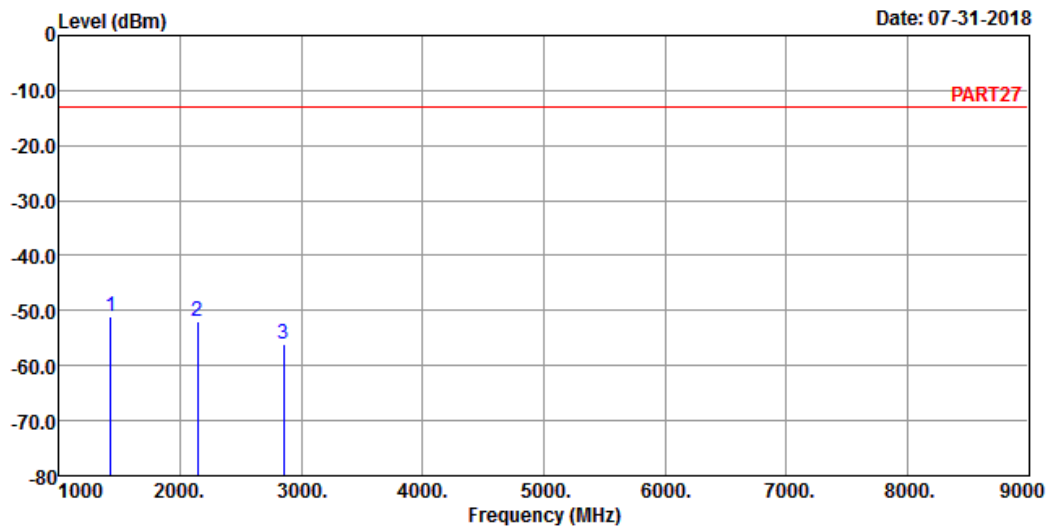


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : Cat-M1 Band 12 QPSK_5M Link_H-CH

Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1427.00	-51.13	-38.88	-13.00	-38.13	-12.25	Peak
2	2140.50	-51.98	-42.41	-13.00	-38.98	-9.57	Peak
3	2854.00	-56.12	-47.68	-13.00	-43.12	-8.44	Peak

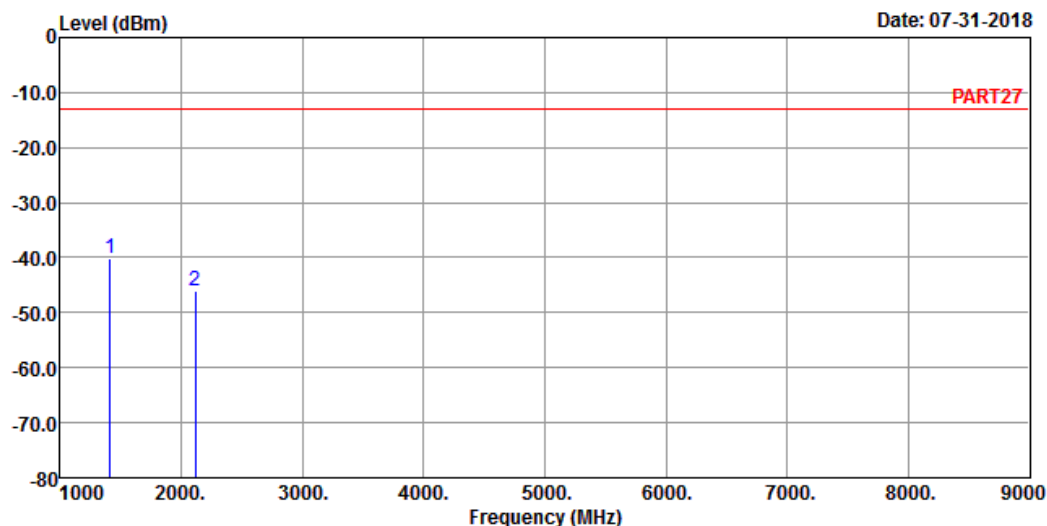
Channel Bandwidth: 10 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_10M Link_L-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1408.00	-40.12	-28.16	-13.00	-27.12	-11.96	Peak
2	2112.00	-45.98	-36.02	-13.00	-32.98	-9.96	Peak

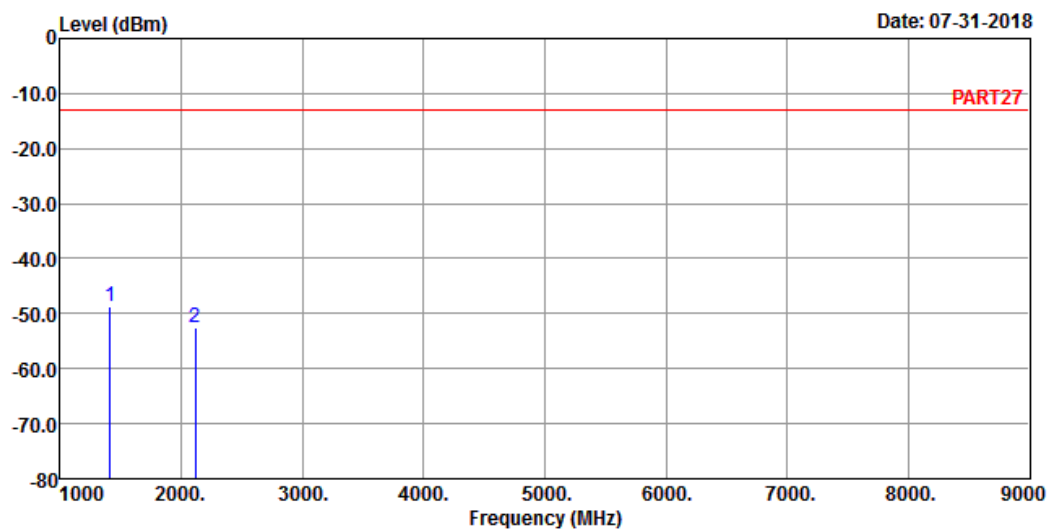


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : Cat-M1 Band 12 QPSK_10M Link_L-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1408.00	-48.65	-36.69	-13.00	-35.65	-11.96	Peak
2	2112.00	-52.65	-42.69	-13.00	-39.65	-9.96	Peak

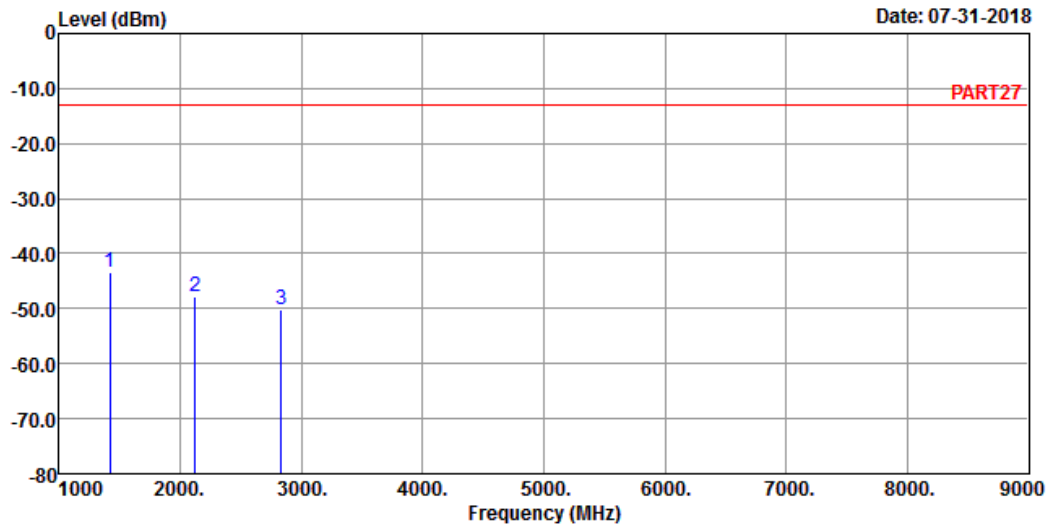
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART27 HORIZONTAL
 Remak : Cat-M1 Band 12 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

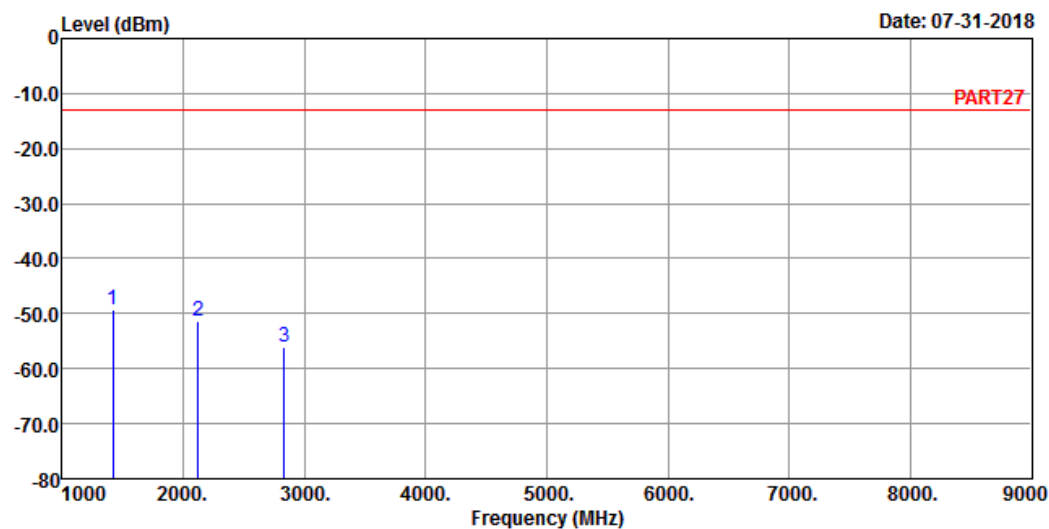
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-43.52	-31.44	-13.00	-30.52	-12.08	Peak
2	2122.50	-47.85	-37.98	-13.00	-34.85	-9.87	Peak
3	2830.00	-50.23	-41.75	-13.00	-37.23	-8.48	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : Cat-M1 Band 12 QPSK_10M Link_M-CH
 Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-49.21	-37.13	-13.00	-36.21	-12.08	Peak
2	2122.50	-51.36	-41.49	-13.00	-38.36	-9.87	Peak
3	2830.00	-55.98	-47.50	-13.00	-42.98	-8.48	Peak

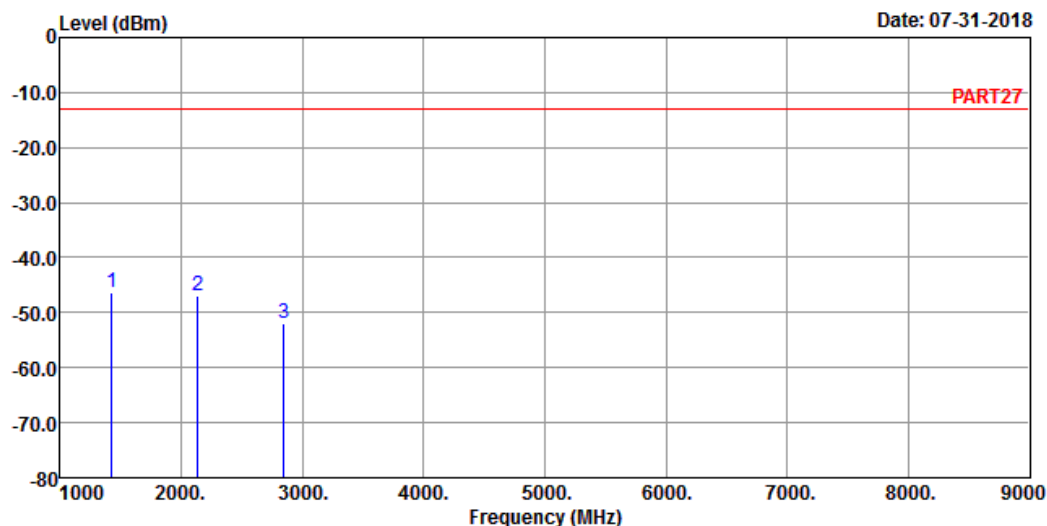
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : Cat-M1 Band 12 QPSK_10M Link_H-CH
Tested by: Thomas Wei

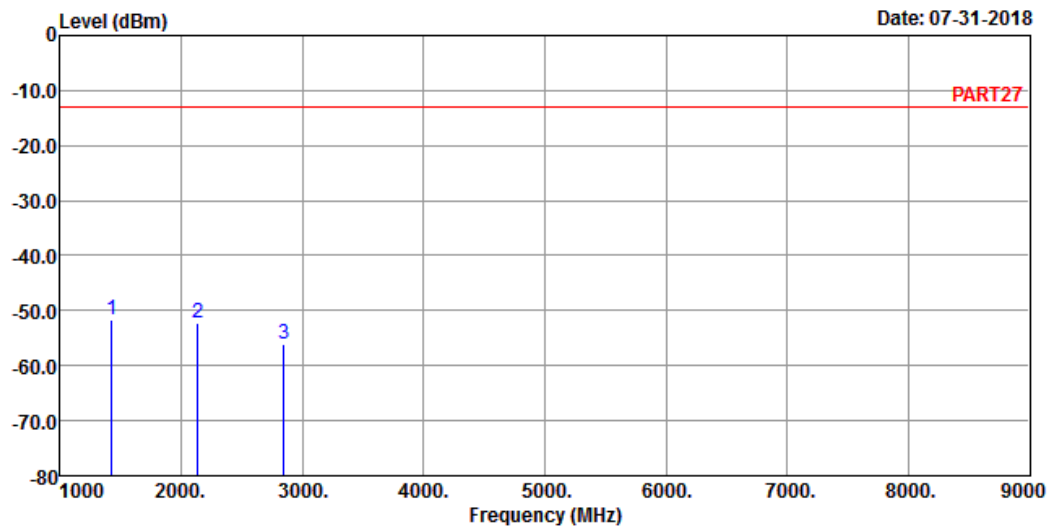
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1422.00	-46.25	-34.06	-13.00	-33.25	-12.19	Peak
2	2133.00	-46.98	-37.31	-13.00	-33.98	-9.67	Peak
3	2844.00	-51.85	-43.39	-13.00	-38.85	-8.46	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART27 VERTICAL
 Remak : Cat-M1 Band 12 QPSK_10M Link_H-CH
 Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1422.00	-51.65	-39.46	-13.00	-38.65	-12.19	Peak
2	2133.00	-52.25	-42.58	-13.00	-39.25	-9.67	Peak
3	2844.00	-56.21	-47.75	-13.00	-43.21	-8.46	Peak

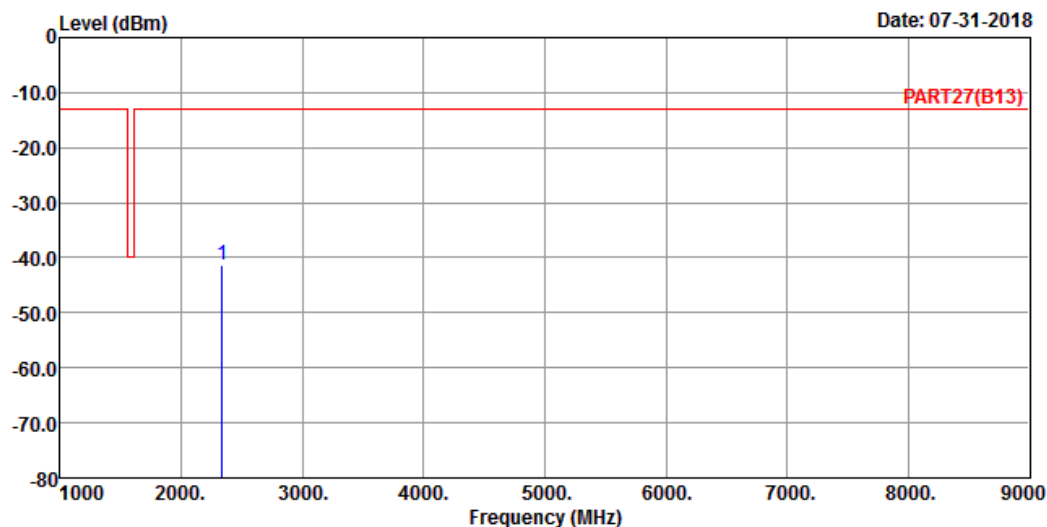
LTE Band 13
Channel Bandwidth: 5 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : CAT M1 Band 13 QPSK_5M Link_L-CH
Tested by: Thomas Wei

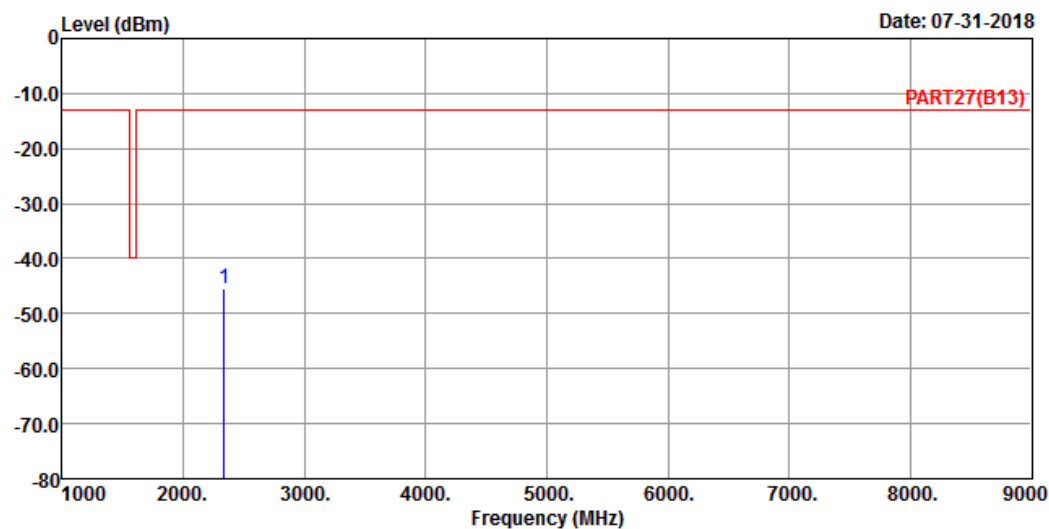
		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 2338.50	-41.44	-32.06	-13.00	-28.44	-9.38	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2



Site : 966 Chamber 5
 Condition: PART27(B13) VERTICAL
 Remak : CAT M1 Band 13 QPSK_5M Link_L-CH
 Tested by: Thomas Wei

Freq	Level	Read	Limit	Over		Factor	Remark
		Level	Line	Limit	Limit		
MHz	dBm	dBm	dBm	dB	dB	dB	
1 pp 2338.50	-45.38	-36.00	-13.00	-32.38	-9.38		Peak

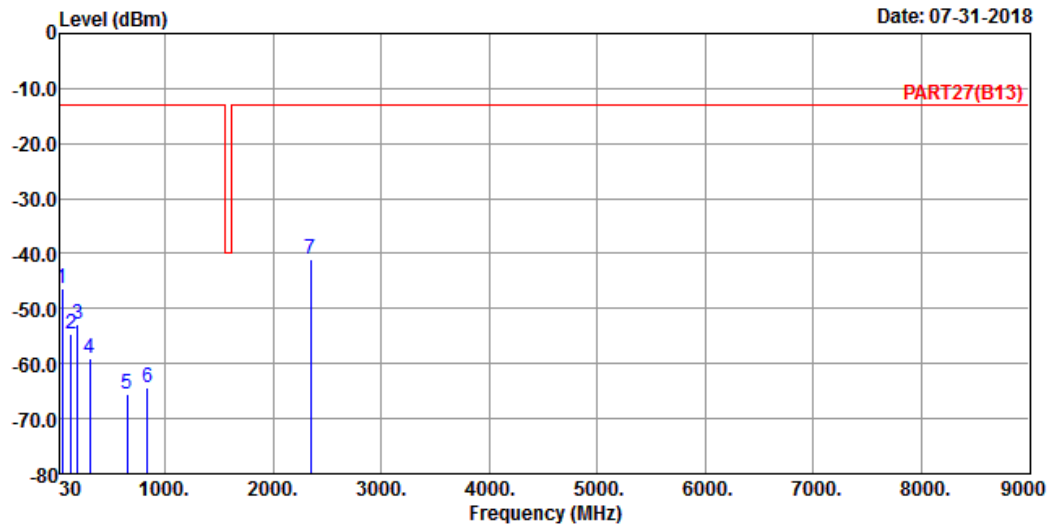
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : CAT M1 Band 13 QPSK_5M Link_M-CH
Tested by: Thomas Wei

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-46.27	-44.28	-13.00	-33.27	-1.99	Peak
2	127.97	-54.65	-45.73	-13.00	-41.65	-8.92	Peak
3	187.14	-52.76	-45.58	-13.00	-39.76	-7.18	Peak
4	303.54	-58.91	-51.96	-13.00	-45.91	-6.95	Peak
5	645.95	-65.58	-64.71	-13.00	-52.58	-0.87	Peak
6	833.16	-64.42	-64.86	-13.00	-51.42	0.44	Peak
7 pp	2346.00	-40.91	-31.47	-13.00	-27.91	-9.44	Peak

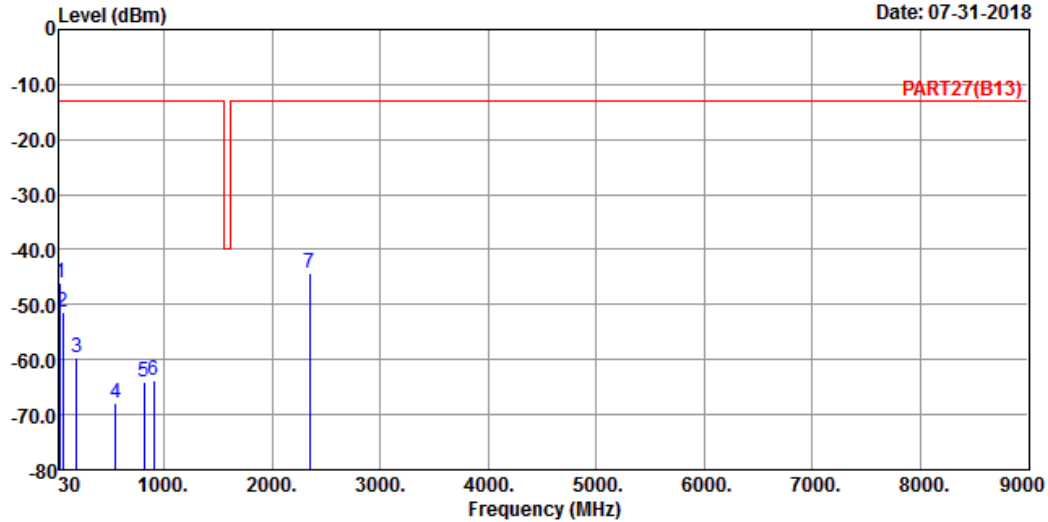


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 07-31-2018



Site : 966 Chamber 5
Condition: PART27(B13) VERTICAL
Remak : CAT M1 Band 13 QPSK_5M Link_M-CH
Tested by: Thomas Wei

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-46.20	-45.26	-13.00	-33.20	-0.94	Peak
2	61.04	-51.38	-43.64	-13.00	-38.38	-7.74	Peak
3	188.11	-59.78	-52.63	-13.00	-46.78	-7.15	Peak
4	547.98	-67.87	-64.95	-13.00	-54.87	-2.92	Peak
5	813.76	-64.17	-64.78	-13.00	-51.17	0.61	Peak
6	902.03	-63.89	-64.51	-13.00	-50.89	0.62	Peak
7 pp	2346.00	-44.40	-34.96	-13.00	-31.40	-9.44	Peak

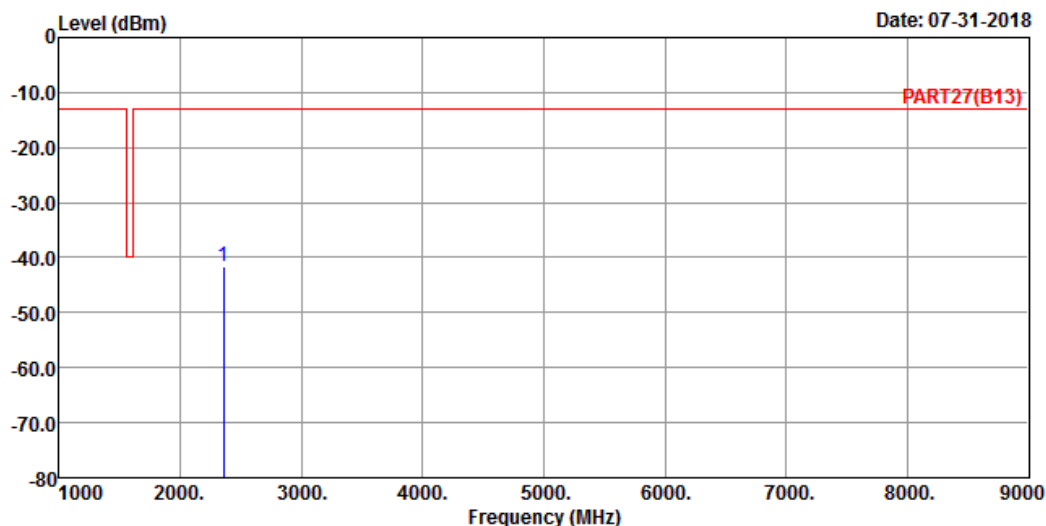
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
 Condition: PART27(B13) HORIZONTAL
 Remak : CAT M1 Band 13 QPSK_5M Link_H-CH
 Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 2353.50 -41.48 -31.97 -13.00 -28.48 -9.51 Peak

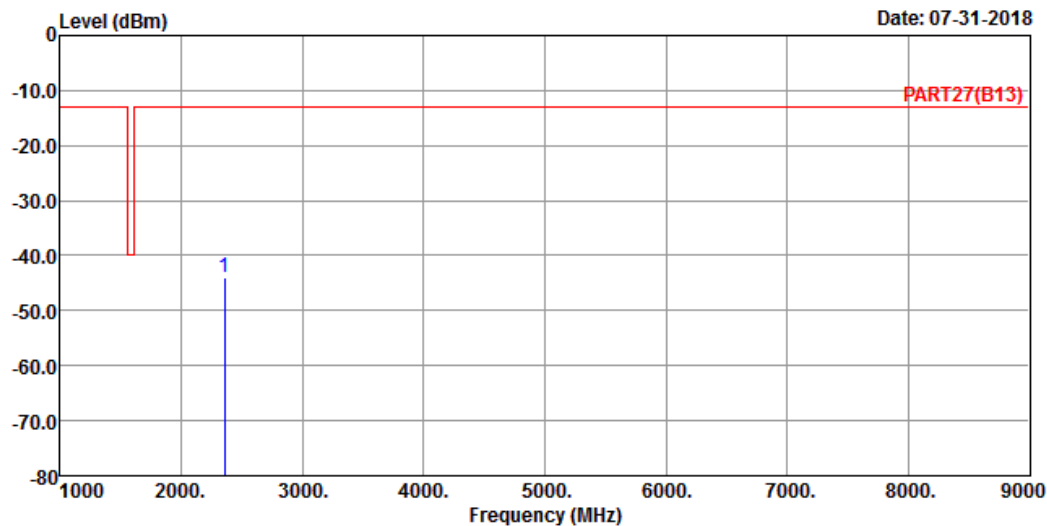


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : CAT M1 Band 13 QPSK_5M Link_H-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 2353.50	-43.86	-34.35	-13.00	-30.86	-9.51	Peak

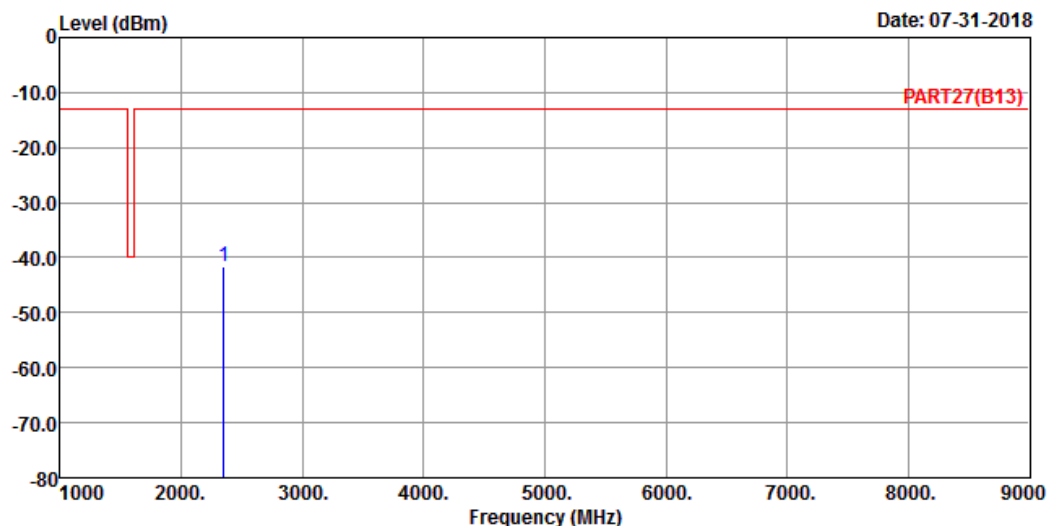
Channel Bandwidth: 10 MHz / QPSK
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 1



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : Cat-M1 Band 13 QPSK_10M Link_M-CH
Tested by: Thomas Wei

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 2346.00	-41.59	-32.15	-13.00	-28.59	-9.44	Peak

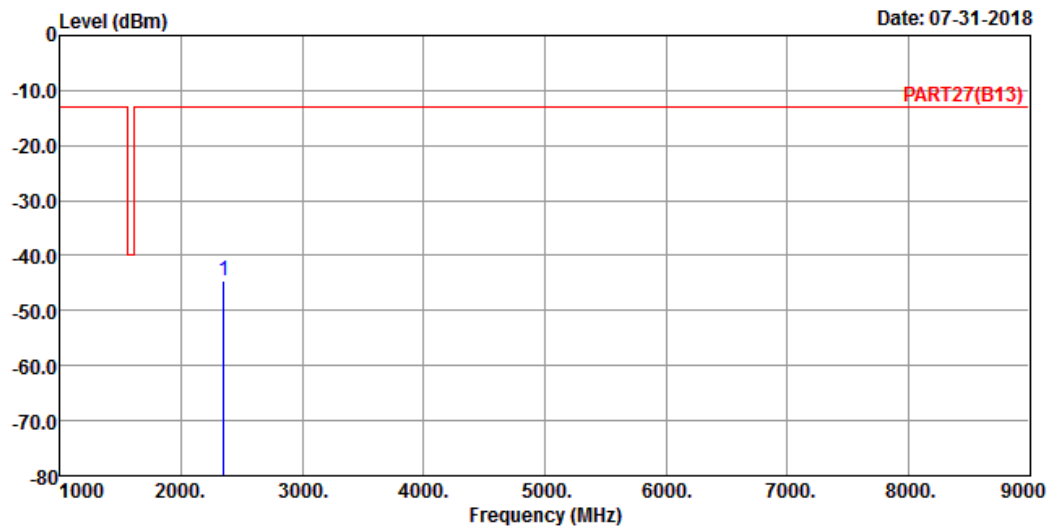


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 2

Date: 07-31-2018



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : Cat-M1 Band 13 QPSK_10M Link_M-CH

Tested by: Thomas Wei

Freq	Level	Read	Limit	Over			Remark
		Level	Line	Limit	Factor		
MHz	dBm	dBm	dBm	dB	dB		
1 pp 2346.00	-44.72	-35.28	-13.00	-31.72	-9.44	Peak	

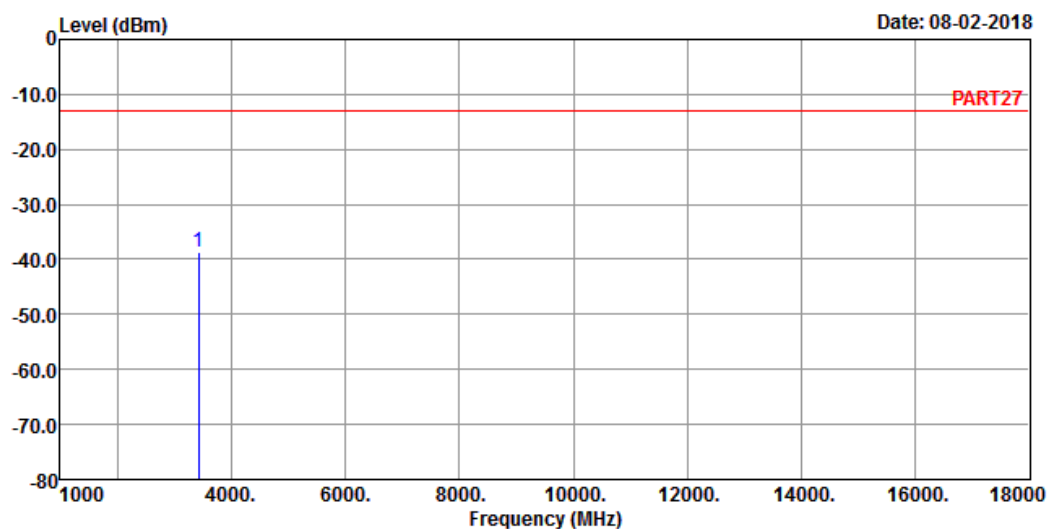
NB-IOT
LTE Band 4
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 4 Stand-alone_Link_L-Ch
Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

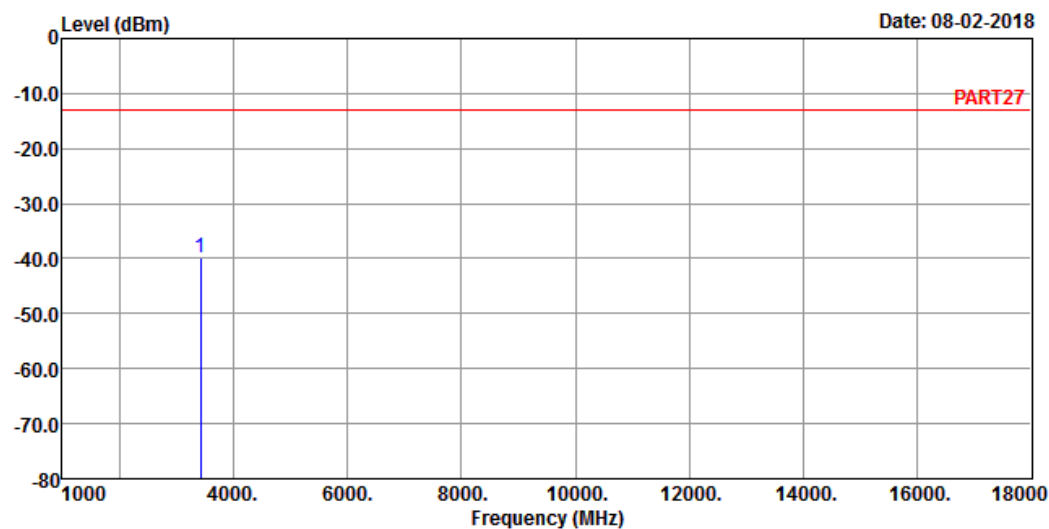
1 pp 3420.20 -38.65 -30.20 -13.00 -25.65 -8.45 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 4 Stand-alone_Link_L-Ch

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm	dBm	dBm	dB	dB	
1 pp 3420.20	-39.85	-31.40	-13.00	-26.85	-8.45	Peak

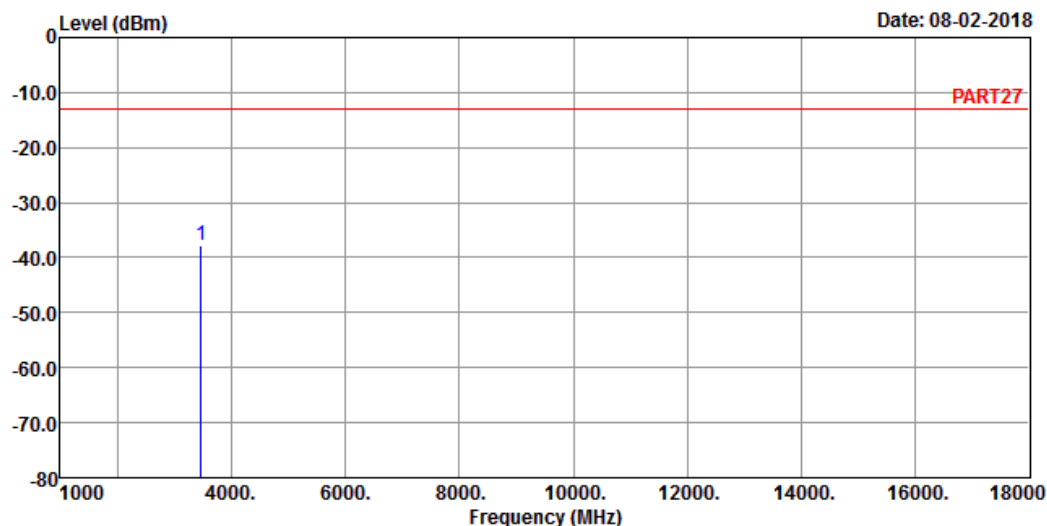
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 4 Stand-alone_Link_M-Ch
Tested by: Jisyong Wang

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	

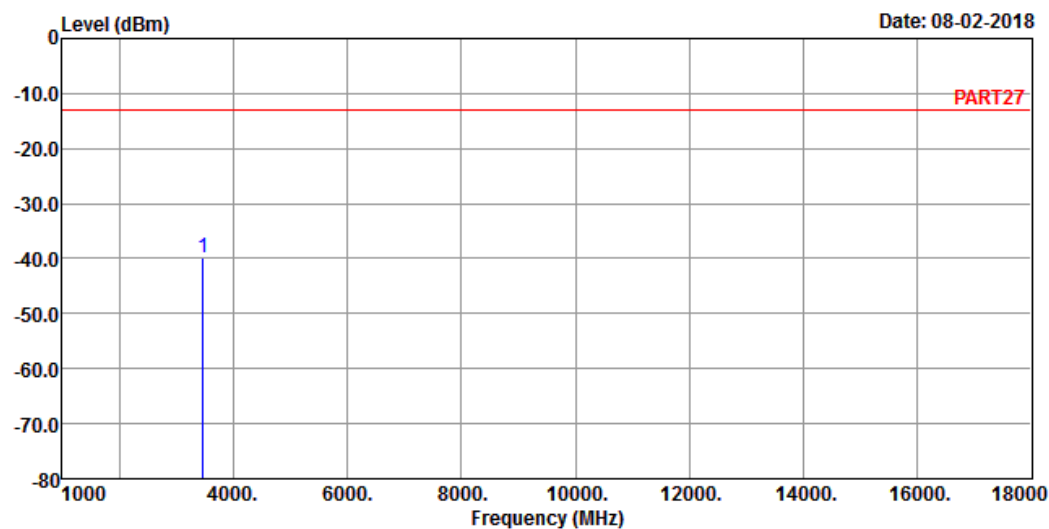
1 pp 3465.00 -37.65 -29.77 -13.00 -24.65 -7.88 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 4 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

Freq	Level	Read		Limit		Over	Factor	Remark
		Level	Line	Level	Line	Limit		
MHz	dBm	dBm	dBm	dBm	dB	dB	dB	
1 pp 3465.00	-39.99	-32.11	-13.00	-26.99	-7.88	Peak		

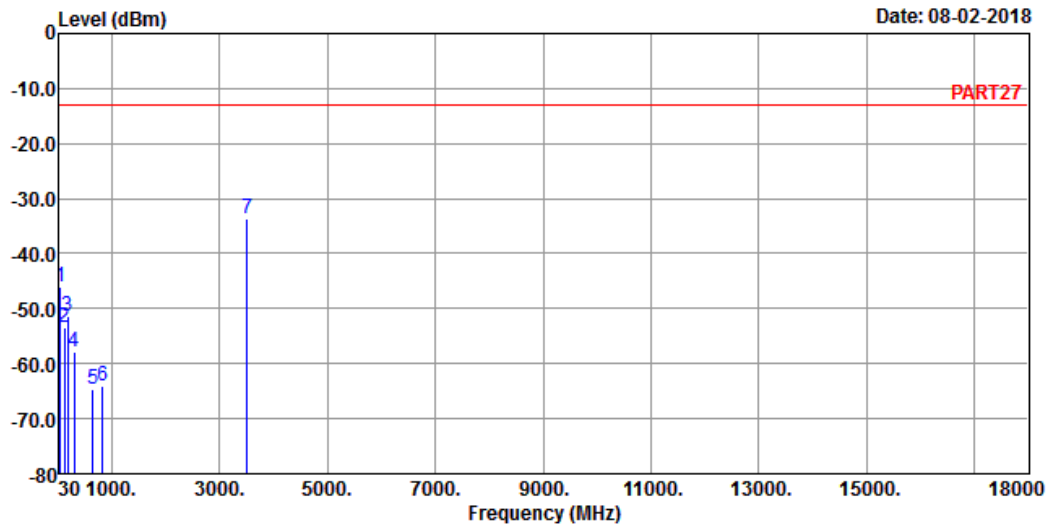
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 4 Stand-alone_Link_H-Ch
Tested by: Jisyong Wang

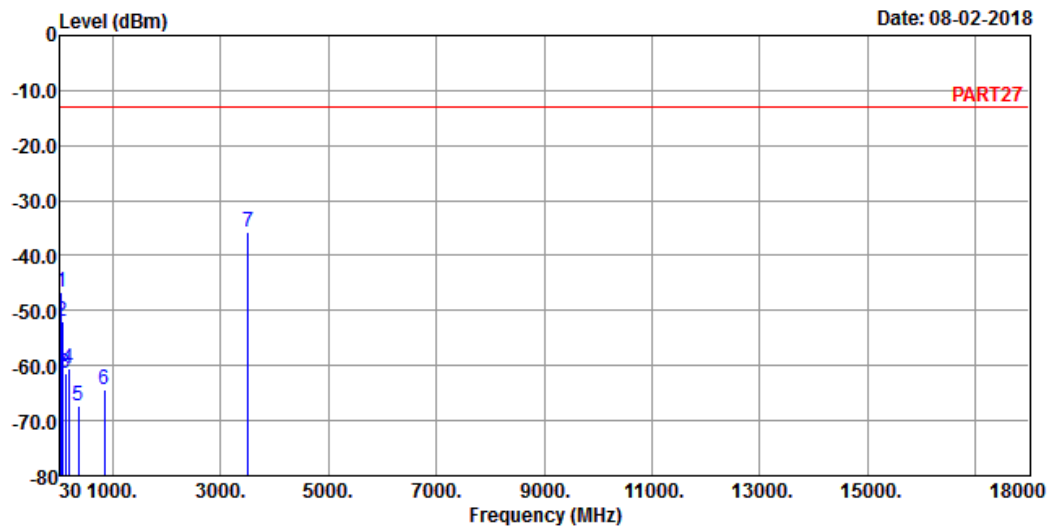
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-45.94	-43.95	-13.00	-32.94	-1.99	Peak
2	128.94	-53.45	-44.64	-13.00	-40.45	-8.81	Peak
3	188.11	-51.30	-44.15	-13.00	-38.30	-7.15	Peak
4	298.69	-57.86	-50.87	-13.00	-44.86	-6.99	Peak
5	652.74	-64.51	-63.67	-13.00	-51.51	-0.84	Peak
6	826.37	-64.06	-64.56	-13.00	-51.06	0.50	Peak
7 pp	3509.80	-33.52	-26.07	-13.00	-20.52	-7.45	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : NB-IOT Band 4 Stand-alone_Link_H-Ch
Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-46.51	-45.04	-13.00	-33.51	-1.47	Peak
2	60.07	-52.09	-44.43	-13.00	-39.09	-7.66	Peak
3	122.15	-61.42	-51.80	-13.00	-48.42	-9.62	Peak
4	190.05	-60.53	-53.44	-13.00	-47.53	-7.09	Peak
5	362.71	-67.39	-61.23	-13.00	-54.39	-6.16	Peak
6	842.86	-64.40	-64.75	-13.00	-51.40	0.35	Peak
7 pp	3509.80	-35.65	-28.20	-13.00	-22.65	-7.45	Peak

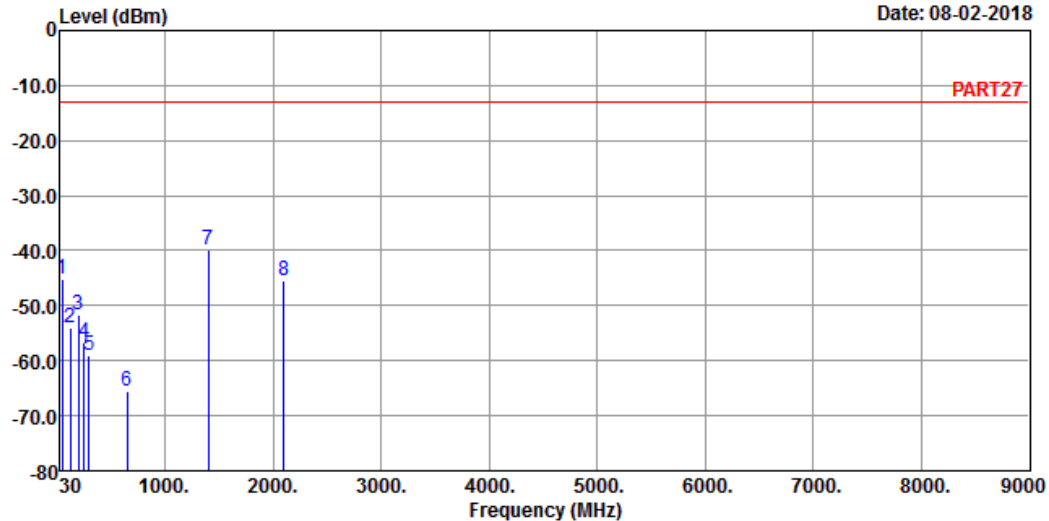
LTE Band 12
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 12 Stand-alone_Link_L-Ch
Tested by: Jisyong Wang

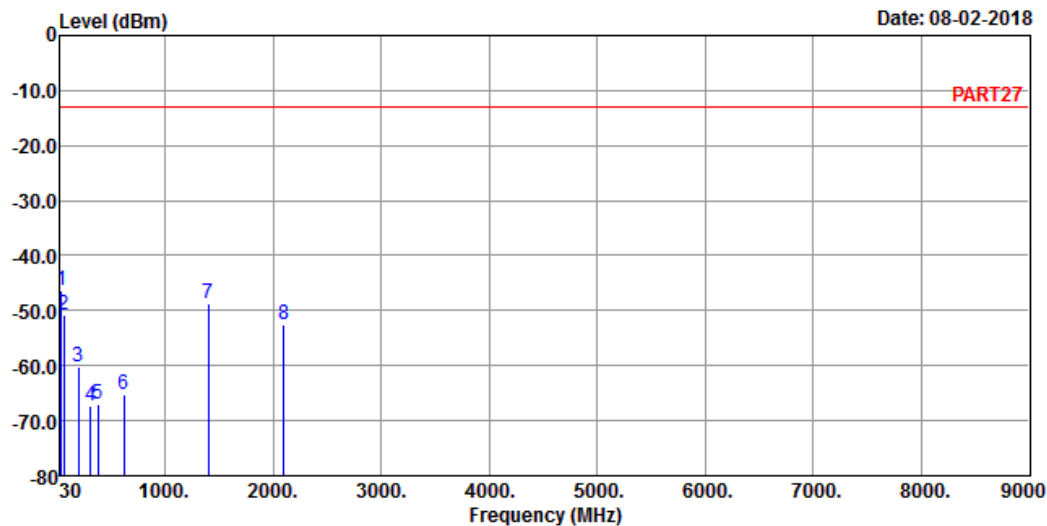
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-45.07	-43.08	-13.00	-32.07	-1.99	Peak
2	123.12	-53.98	-44.48	-13.00	-40.98	-9.50	Peak
3	193.93	-51.78	-44.32	-13.00	-38.78	-7.46	Peak
4	253.10	-56.59	-50.54	-13.00	-43.59	-6.05	Peak
5	296.75	-58.90	-51.95	-13.00	-45.90	-6.95	Peak
6	646.92	-65.39	-64.51	-13.00	-52.39	-0.88	Peak
7 pp	1398.20	-39.99	-28.14	-13.00	-26.99	-11.85	Peak
8	2097.30	-45.52	-35.27	-13.00	-32.52	-10.25	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 12 Stand-alone_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	42.61	-46.39	-45.45	-13.00	-33.39	-0.94	Peak
2	59.10	-50.85	-43.45	-13.00	-37.85	-7.40	Peak
3	193.93	-60.22	-52.76	-13.00	-47.22	-7.46	Peak
4	307.42	-67.18	-60.29	-13.00	-54.18	-6.89	Peak
5	376.29	-67.10	-61.02	-13.00	-54.10	-6.08	Peak
6	618.79	-65.34	-64.54	-13.00	-52.34	-0.80	Peak
7	1398.20	-48.62	-36.77	-13.00	-35.62	-11.85	Peak
8	2097.30	-52.69	-42.44	-13.00	-39.69	-10.25	Peak

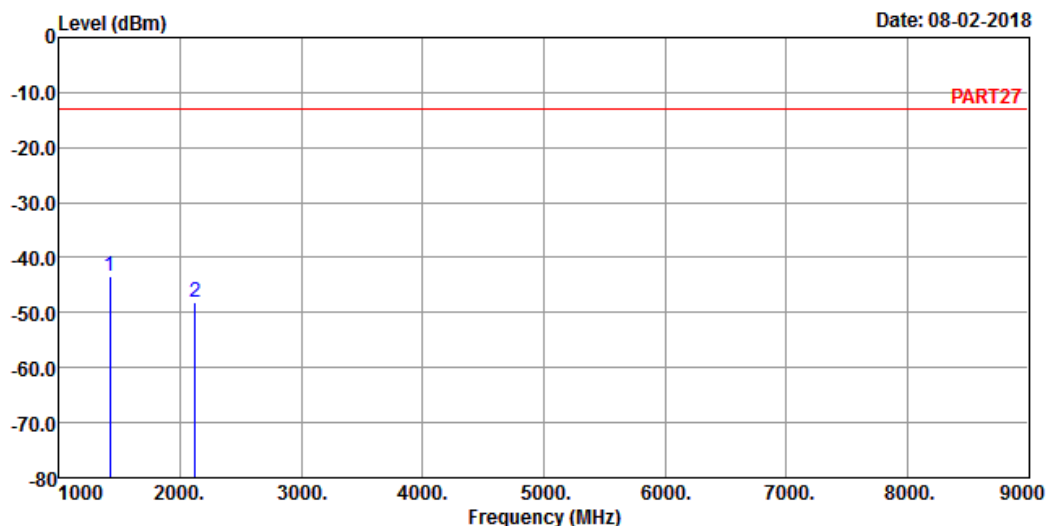
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : NB-IOT Band 12 Stand-alone_Link_M-Ch
Tested by: Jisyong Wang

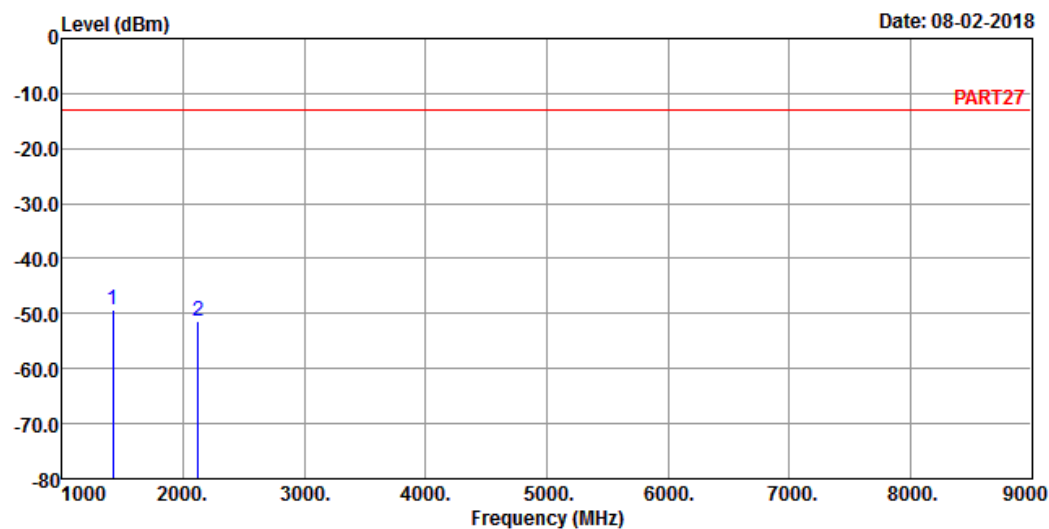
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-43.52	-31.44	-13.00	-30.52	-12.08	Peak
2	2122.50	-47.99	-38.12	-13.00	-34.99	-9.87	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 12 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-49.25	-37.17	-13.00	-36.25	-12.08	Peak
2	2122.50	-51.26	-41.39	-13.00	-38.26	-9.87	Peak

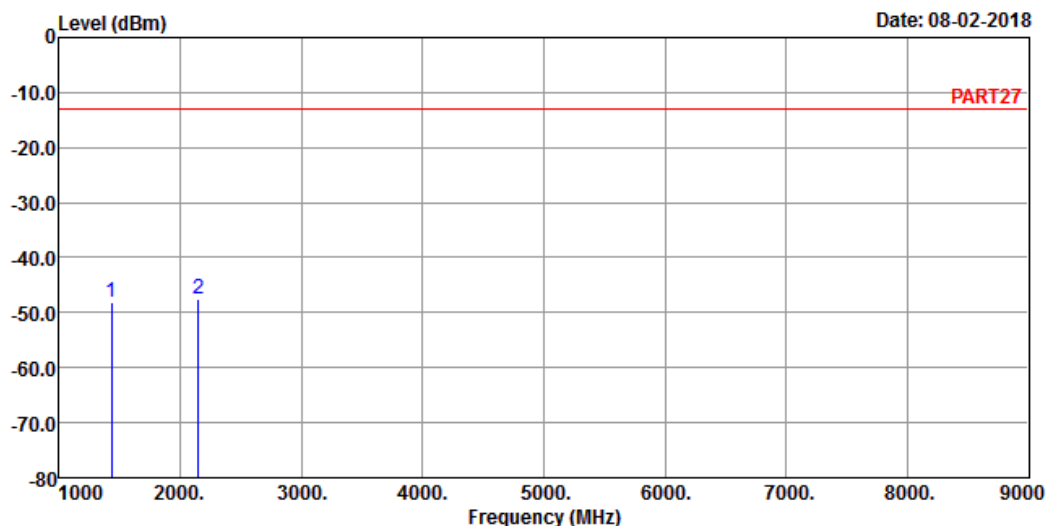
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5

Condition: PART27 HORIZONTAL

Remak : NB-IOT Band 12 Stand-alone_Link_H-Ch

Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	1431.80	-48.25	-35.94	-13.00	-35.25	-12.31	Peak
2 pp	2147.70	-47.62	-38.15	-13.00	-34.62	-9.47	Peak

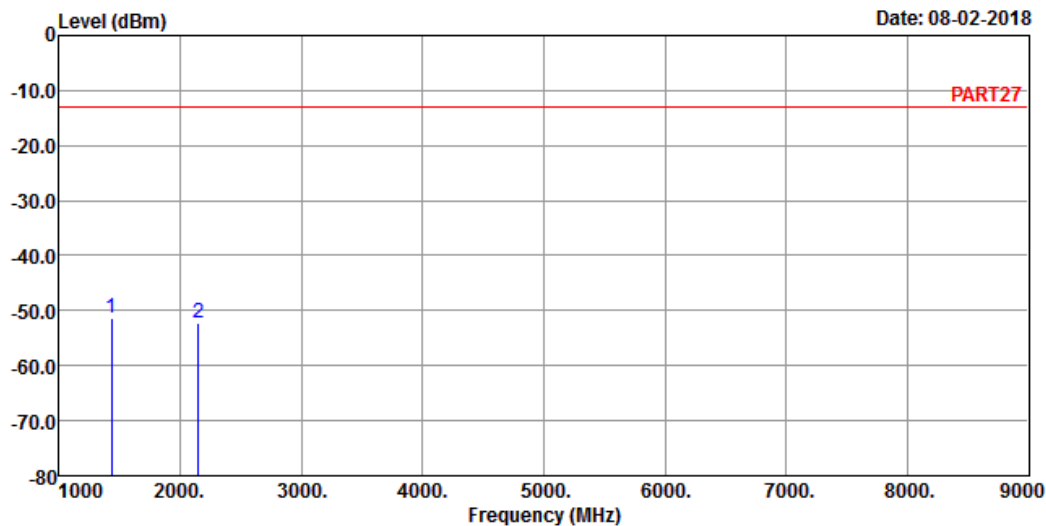


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 08-02-2018



Site : 966 Chamber 5

Condition: PART27 VERTICAL

Remak : NB-IOT Band 12 Stand-alone_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	1431.80	-51.25	-38.94	-13.00	-38.25	-12.31	Peak
2	2147.70	-52.36	-42.89	-13.00	-39.36	-9.47	Peak

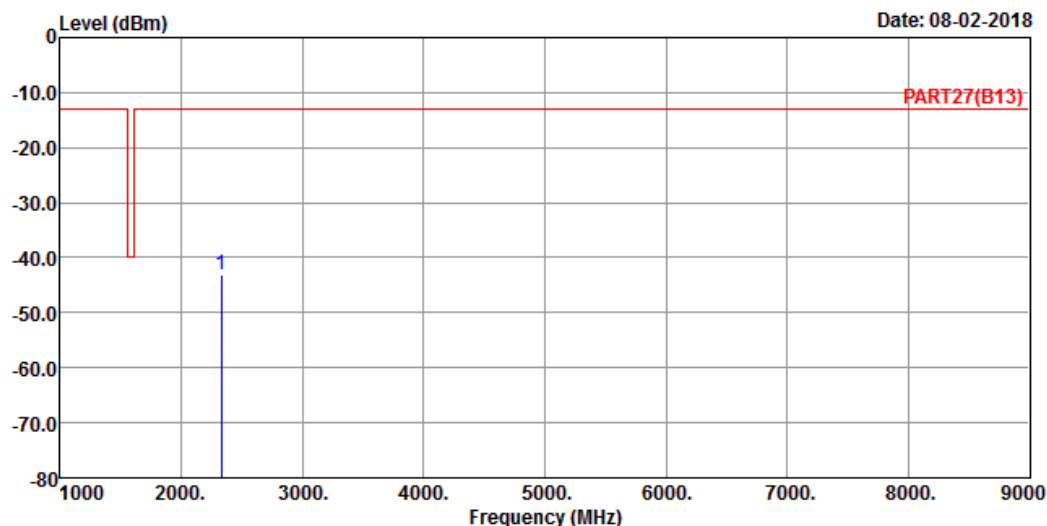
LTE Band 13
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : NB-IOT Band 13 Stand-alone_Link_L-Ch
Tested by: Thomas Wei

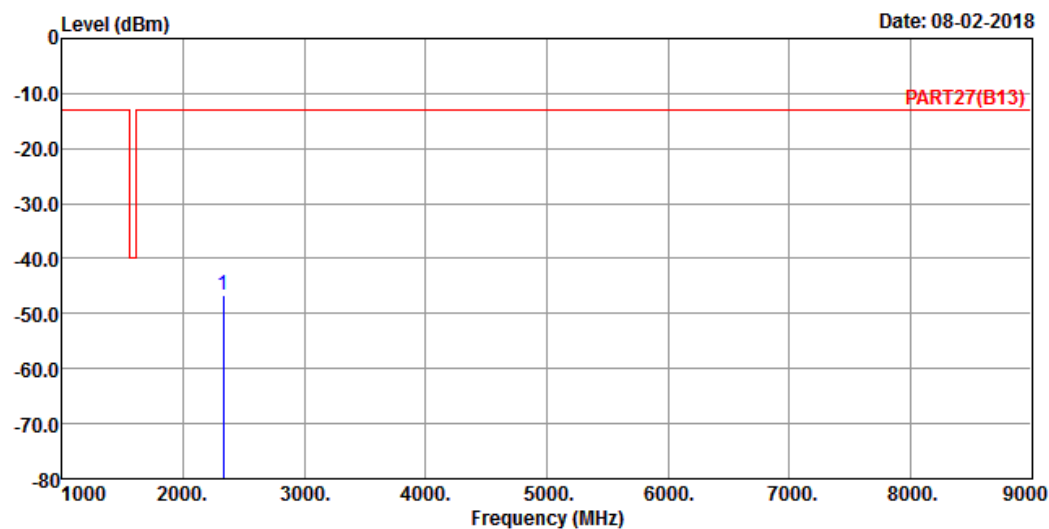
Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 2331.30	-43.02	-33.70	-13.00	-30.02	-9.32	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : NB-IOT Band 13 Stand-alone_Link_L-Ch

Tested by: Thomas Wei

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 2331.30	-46.52	-37.20	-13.00	-33.52	-9.32	Peak

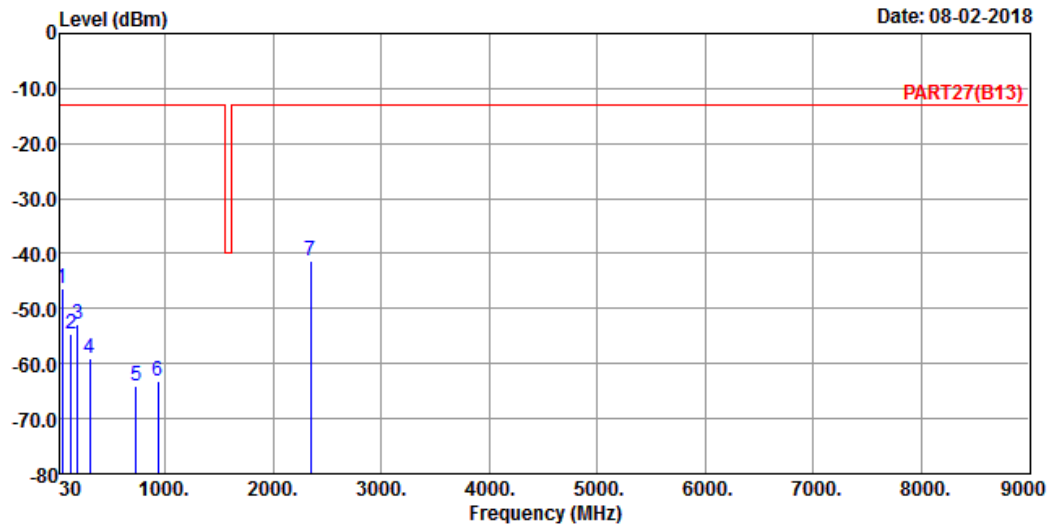
Middle Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : NB-IOT Band 13 Stand-alone_Link_M-Ch
Tested by: Jisyong Wang

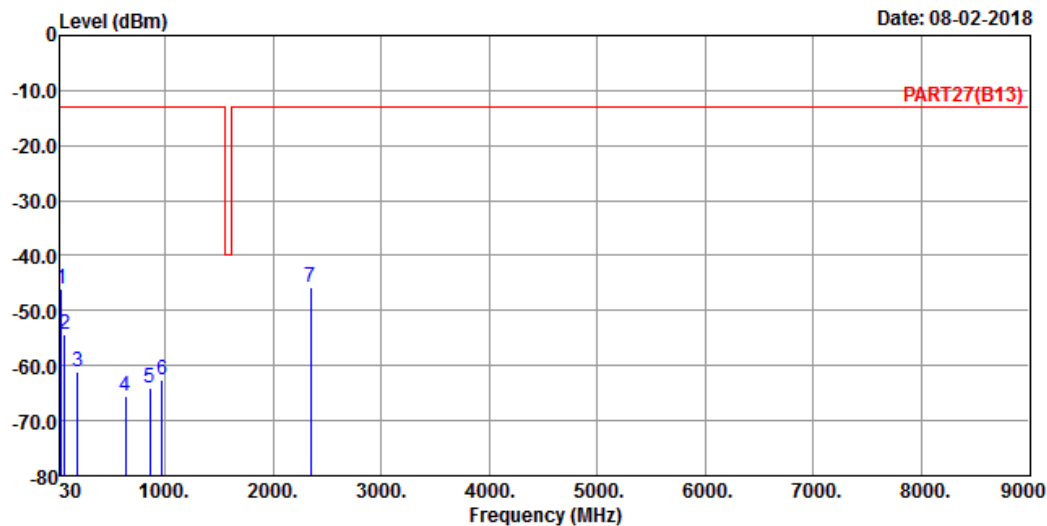
			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-46.27	-44.28	-13.00	-33.27	-1.99	Peak
2	127.97	-54.65	-45.73	-13.00	-41.65	-8.92	Peak
3	187.14	-52.76	-45.58	-13.00	-39.76	-7.18	Peak
4	303.54	-58.91	-51.96	-13.00	-45.91	-6.95	Peak
5	731.31	-63.98	-64.50	-13.00	-50.98	0.52	Peak
6	933.07	-63.18	-64.57	-13.00	-50.18	1.39	Peak
7 pp	2346.00	-41.25	-31.81	-13.00	-28.25	-9.44	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : NB-IOT Band 13 Stand-alone_Link_M-Ch

Tested by: Jisyong Wang

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-46.20	-45.26	-13.00	-33.20	-0.94	Peak
2	68.80	-54.26	-45.94	-13.00	-41.26	-8.32	Peak
3	191.99	-61.11	-53.83	-13.00	-48.11	-7.28	Peak
4	630.43	-65.53	-64.70	-13.00	-52.53	-0.83	Peak
5	862.26	-64.03	-64.39	-13.00	-51.03	0.36	Peak
6	967.99	-62.57	-65.02	-13.00	-49.57	2.45	Peak
7 pp	2346.00	-45.65	-36.21	-13.00	-32.65	-9.44	Peak

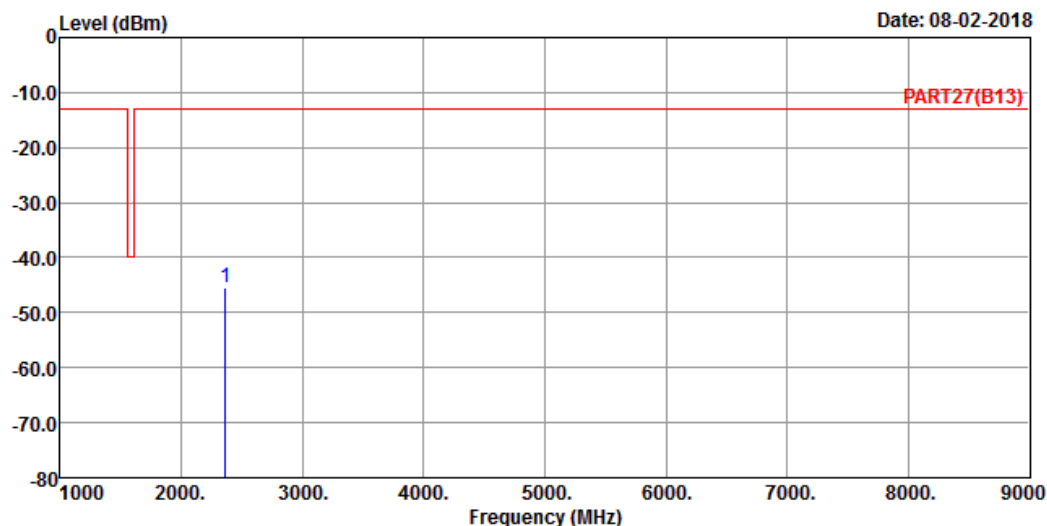
High Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : NB-IOT Band 13 Stand-alone_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 2360.70 -45.36 -35.79 -13.00 -32.36 -9.57 Peak

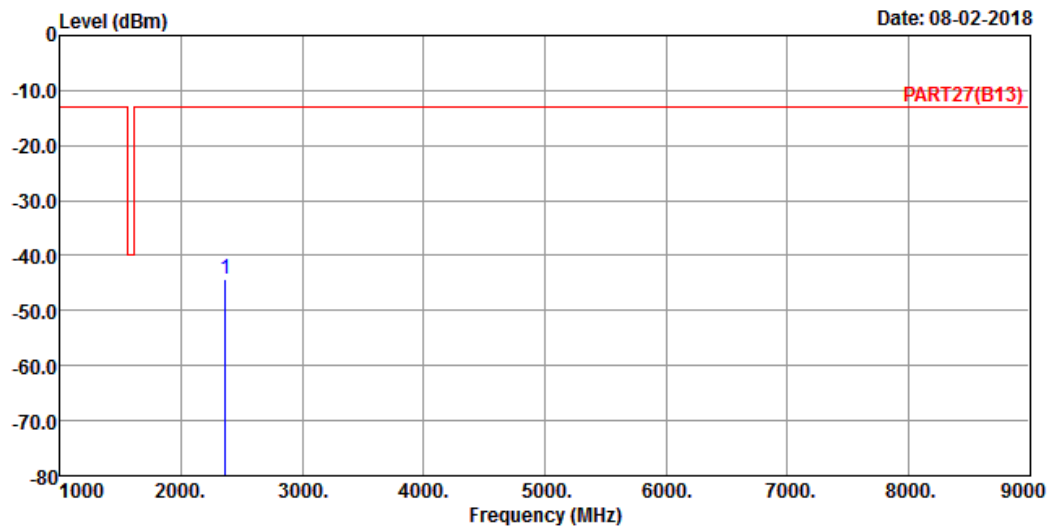


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 08-02-2018



Site : 966 Chamber 5

Condition: PART27(B13) VERTICAL

Remak : NB-IOT Band 13 Stand-alone_Link_H-Ch

Tested by: Jisyong Wang

Freq	Level	Read	Limit	Over			Remark
		Level	Line	Limit	Factor		
MHz	dBm	dBm	dBm	dB	dB		

1 pp 2360.70 -44.26 -34.69 -13.00 -31.26 -9.57 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

Tel: 886-3-6668565

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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