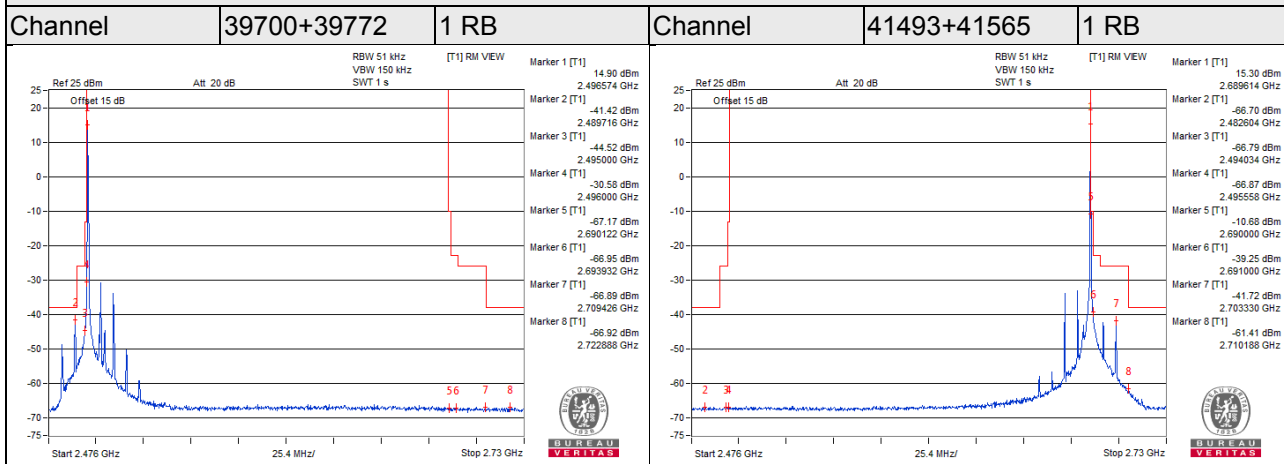
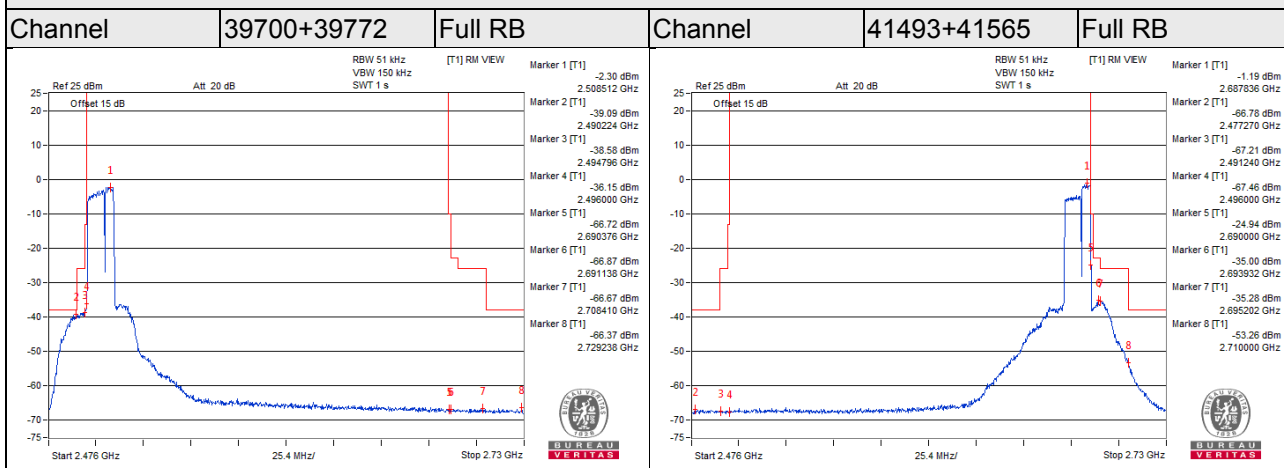


LTE CA_41C

Channel Bandwidth 10+5MHz



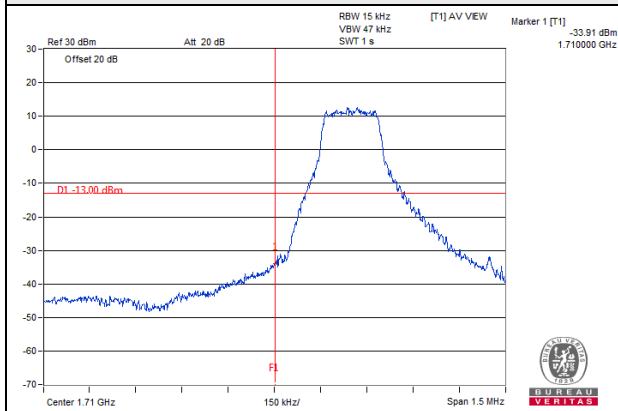
Channel Bandwidth 10+5MHz



LTE Band 66 Channel Band width: 1.4MHz

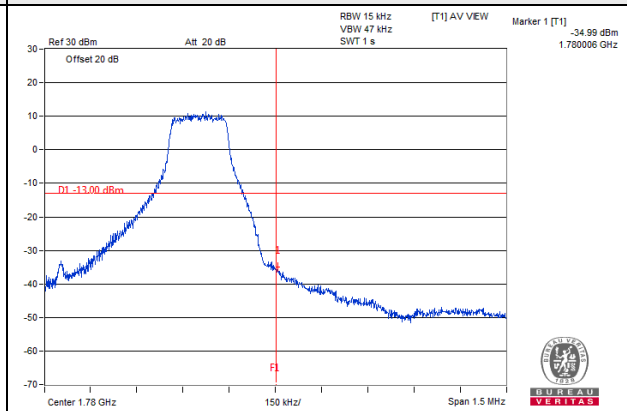
Channel 131979

1 RB

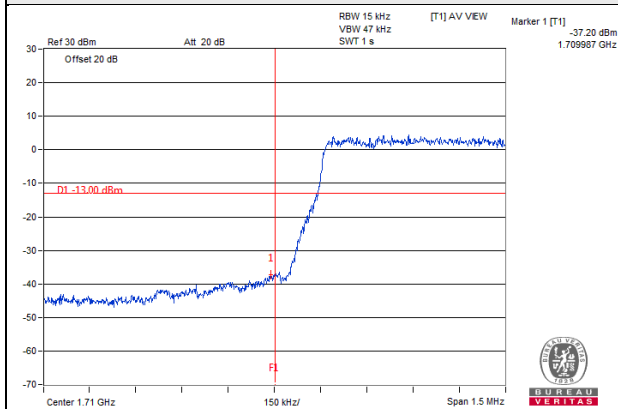


Channel 132665

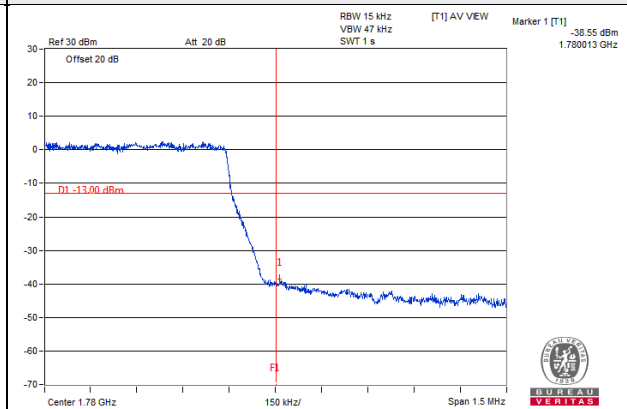
1 RB



6 RB



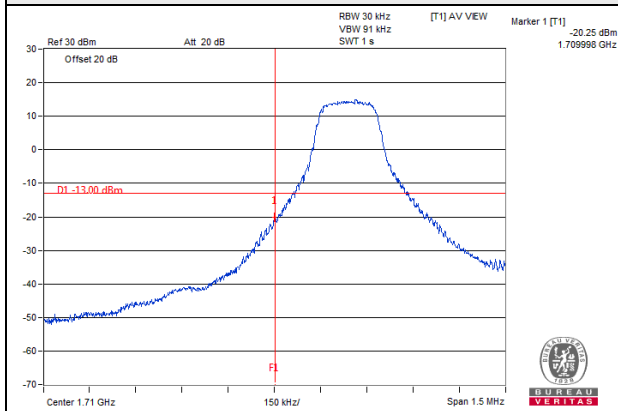
6 RB



LTE Band 66 Channel Band width: 3MHz

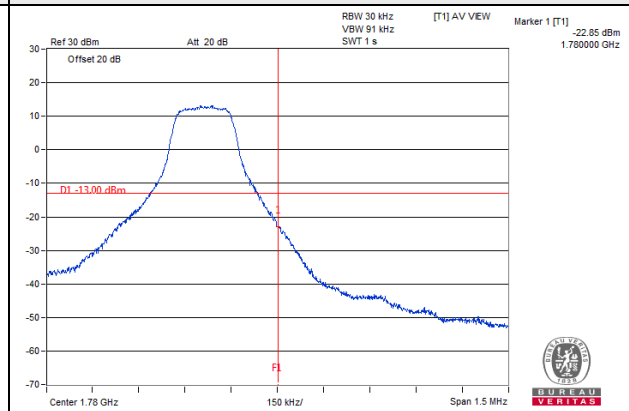
Channel 131987

1 RB

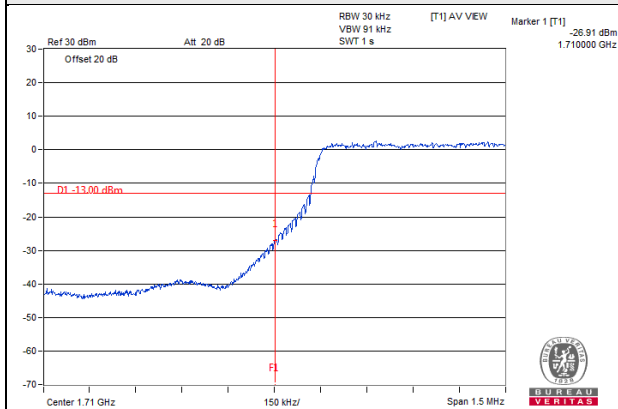


Channel 132657

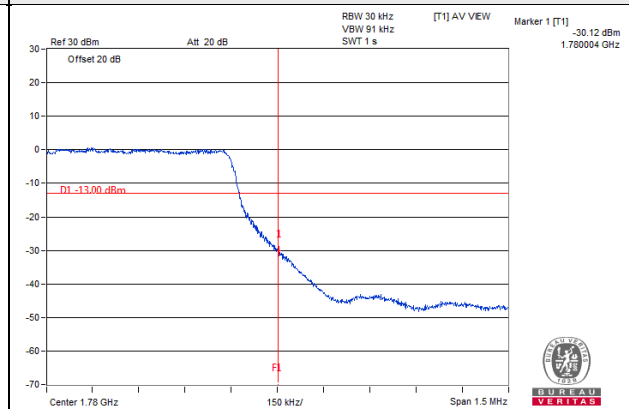
1 RB



15 RB



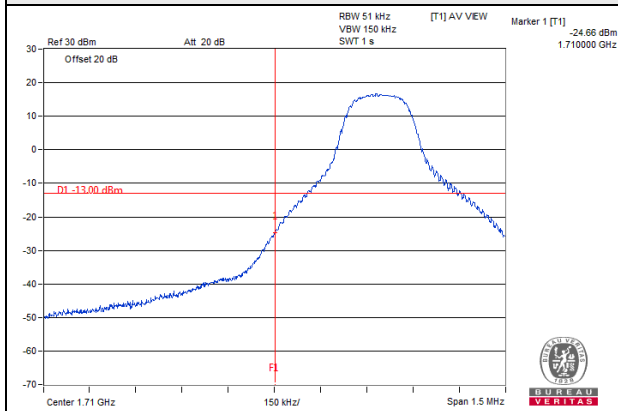
15 RB



LTE Band 66 Channel Band width: 5MHz

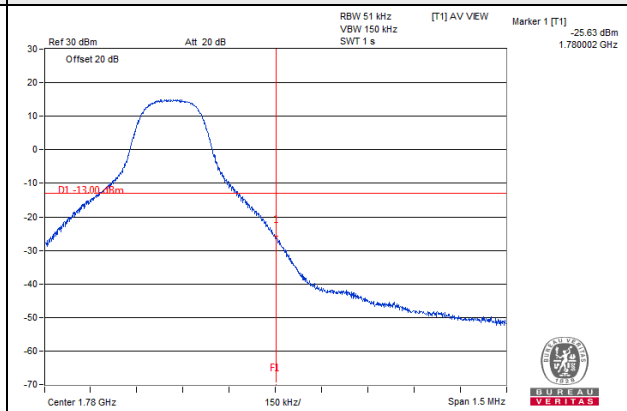
Channel 131997

1 RB

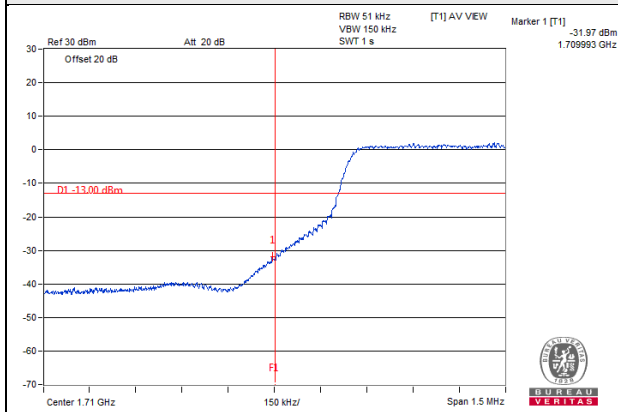


Channel 132647

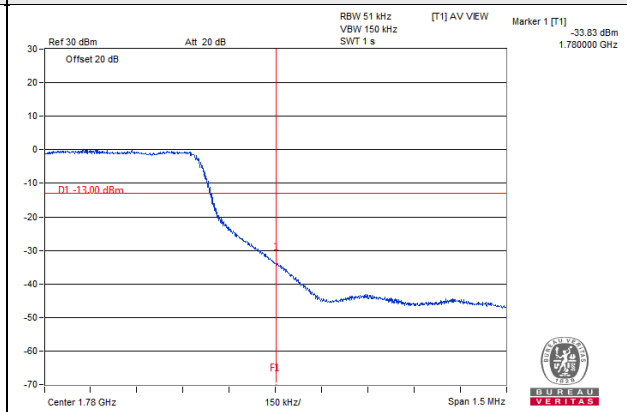
1 RB



25 RB



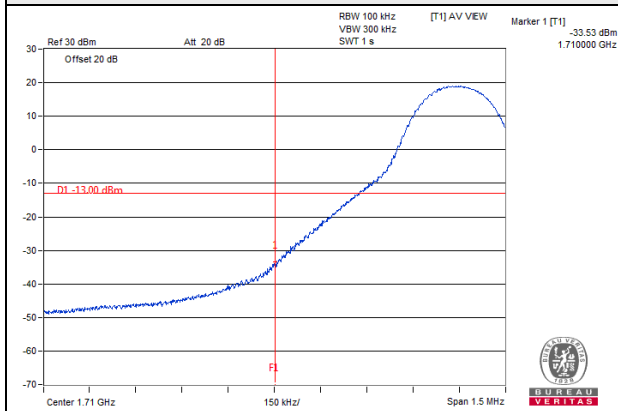
25 RB



LTE Band 66 Channel Band width: 10MHz

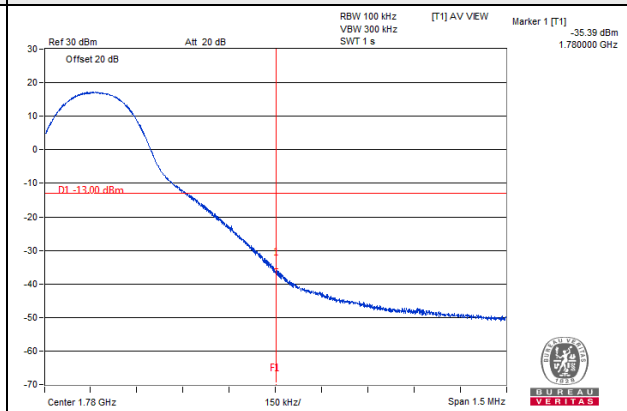
Channel 132022

1 RB

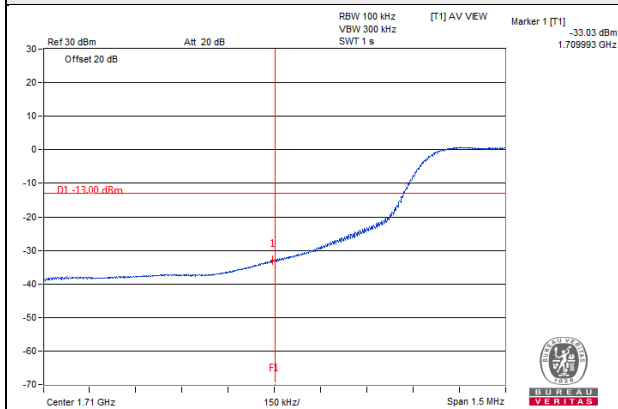


Channel 132622

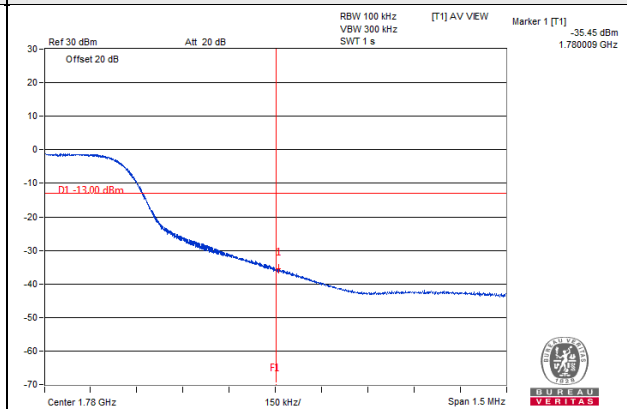
1 RB



50 RB



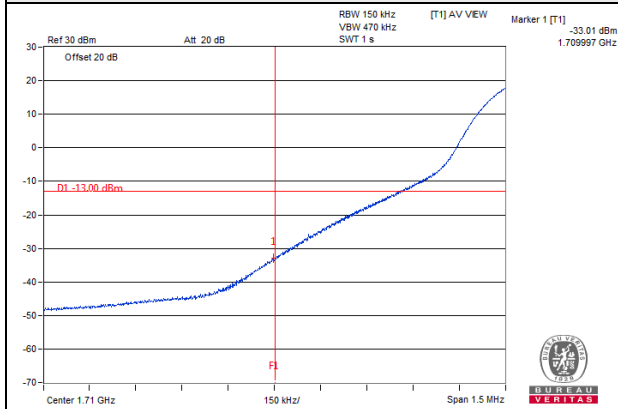
50 RB



LTE Band 66 Channel Band width: 15MHz

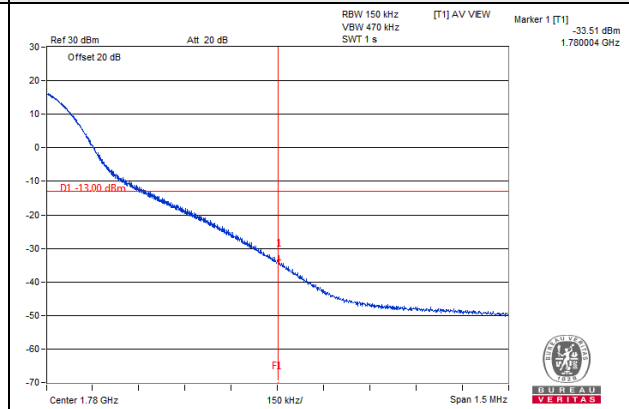
Channel 132047

1 RB

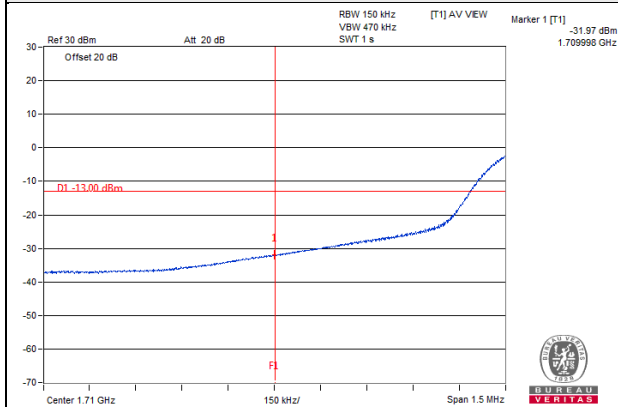


Channel 132597

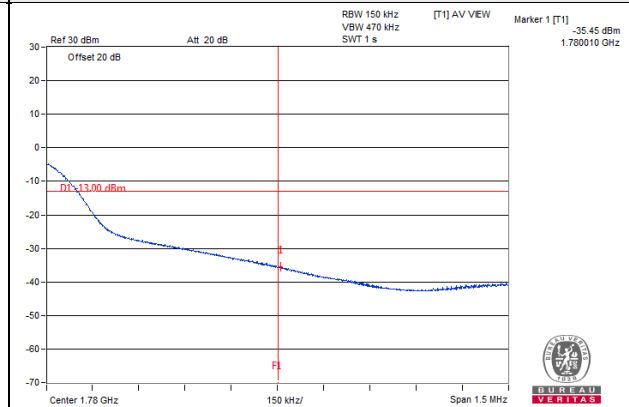
1 RB



75 RB



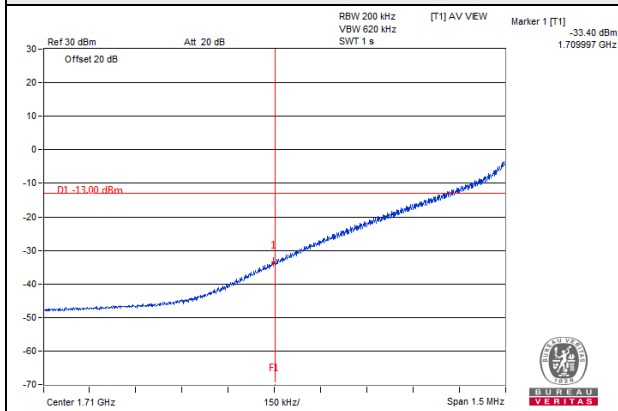
75 RB



LTE Band 66 Channel Band width: 20MHz

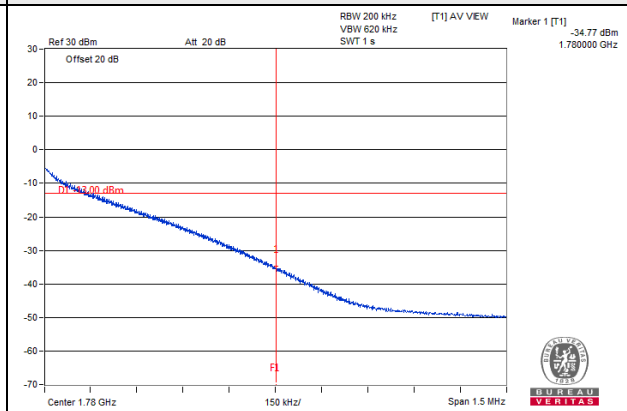
Channel 132072

1 RB

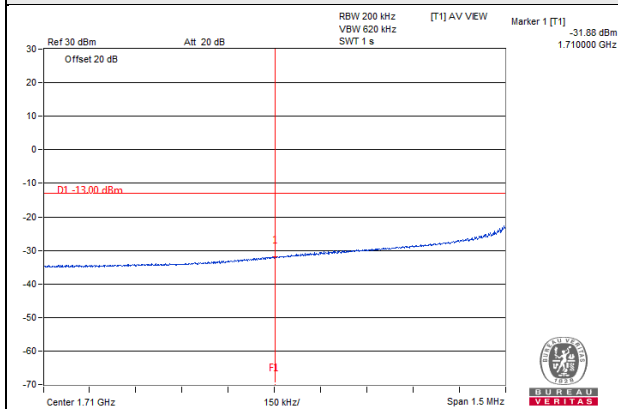


Channel 132572

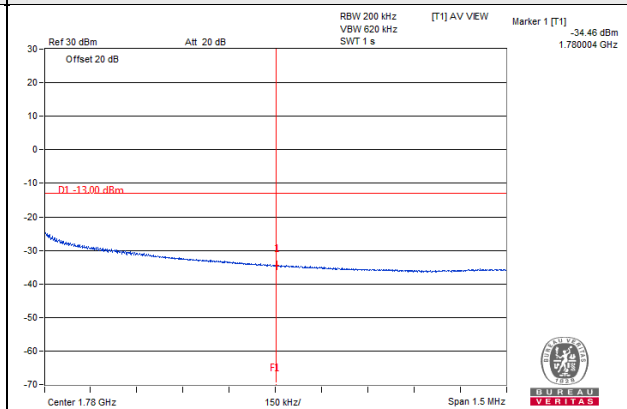
1 RB



100 RB



100 RB

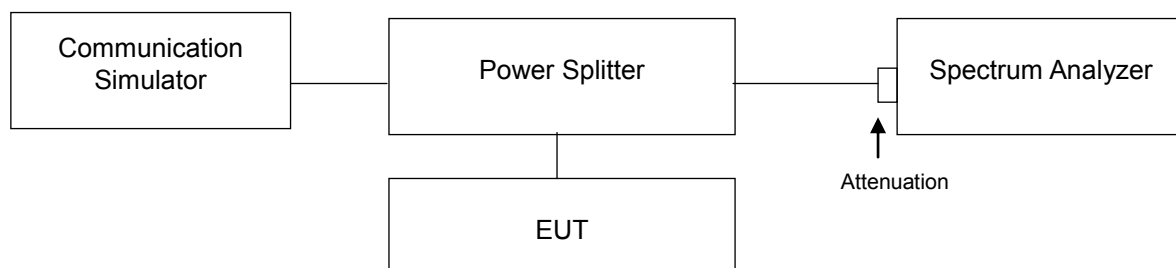


4.6 Peak to Average Ratio

4.5.1 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

4.5.2 Test Setup

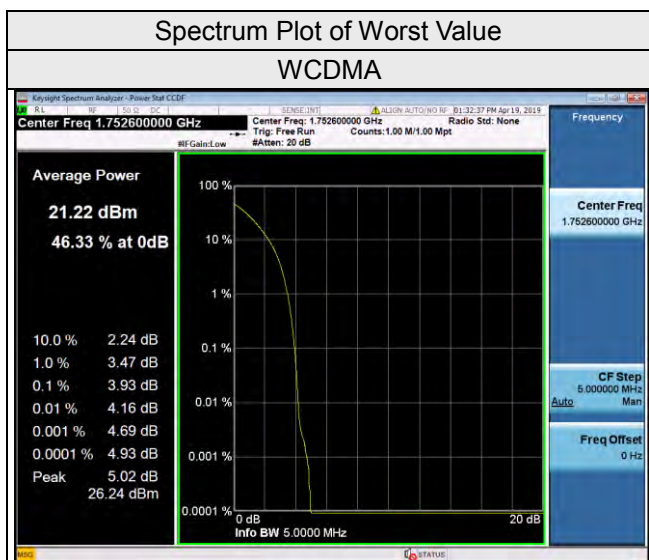


4.5.3 Test Procedures

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%.

4.5.4 Test Results

Channel	Freq. (MHz)	Peak to Average Ratio (dB)
		WCDMA
1312	1712.4	3.88
1413	1732.6	3.75
1513	1752.6	3.93



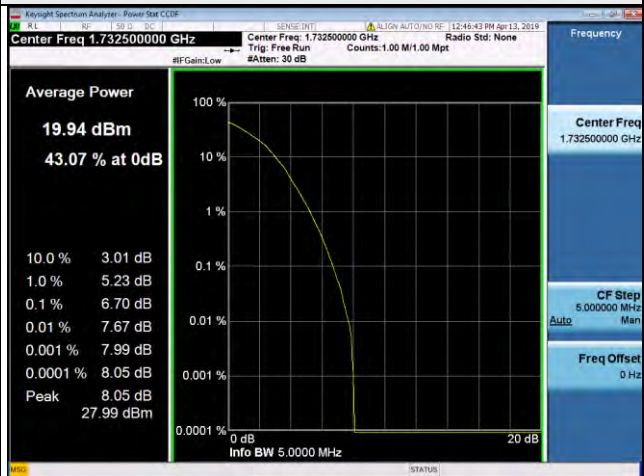
LTE Band 4									
Channel Bandwidth 1.4MHz					Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
19957	1710.7	4.75	5.93	6.60	19965	1711.5	4.57	6.00	6.58
20175	1732.5	4.91	6.04	6.61	20175	1732.5	4.67	6.04	6.70
20393	1754.3	4.85	5.98	6.54	20385	1753.5	4.63	5.96	6.54
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
19975	1712.5	4.72	6.03	6.54	20000	1715	4.84	6.08	6.66
20175	1732.5	4.86	6.05	6.69	20175	1732.5	4.85	6.09	6.63
20375	1752.5	4.78	5.92	6.51	20350	1750	4.60	5.68	6.44
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
20025	1717.5	5.00	6.14	6.73	20050	1720	4.74	5.95	6.61
20175	1732.5	5.01	6.09	6.78	20175	1732.5	4.76	5.98	6.59
20325	1747.5	5.01	6.09	6.69	20300	1745	4.83	6.01	6.65

Spectrum Plot of Worst Value

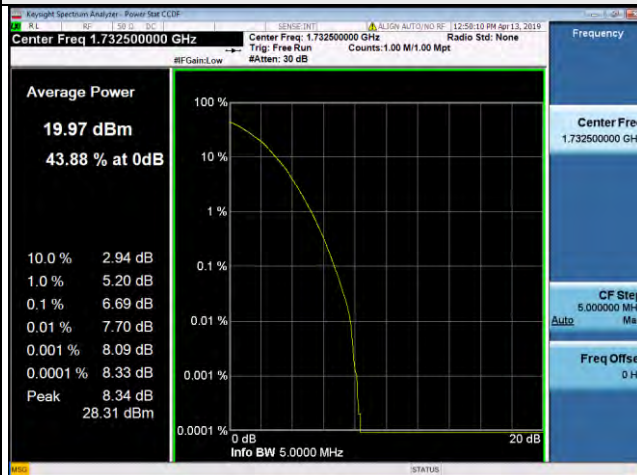
1.4MHz / 64QAM



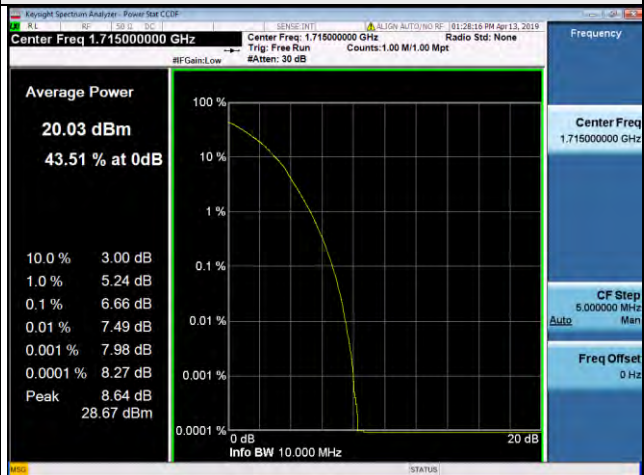
3MHz / 64QAM



5MHz / 64QAM



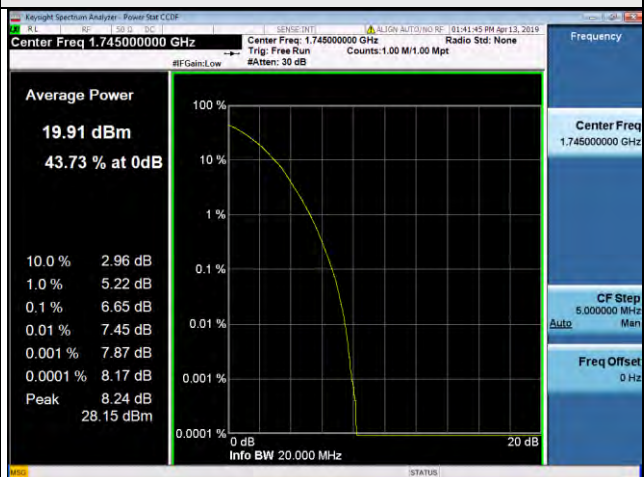
10MHz / 64QAM



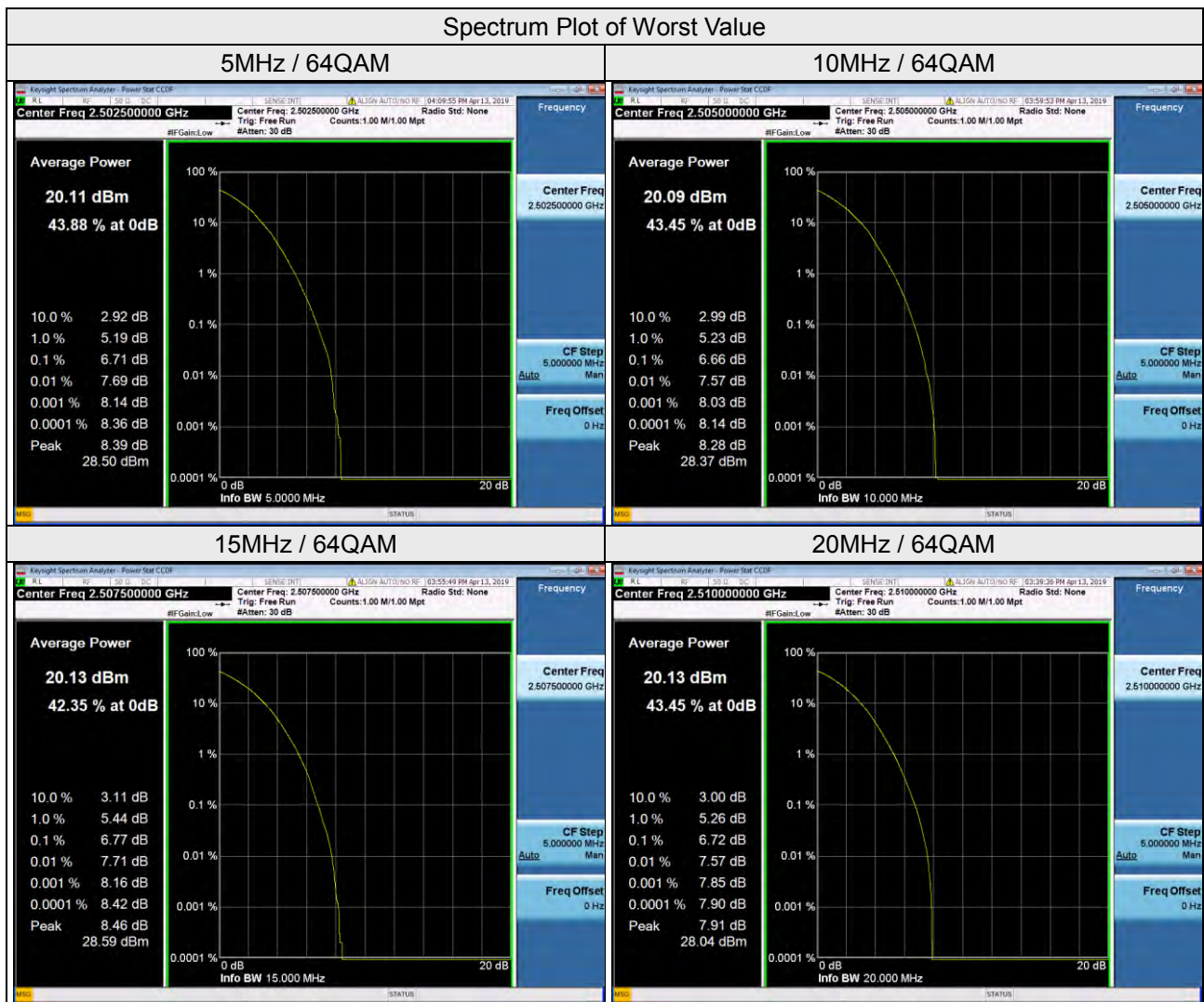
15MHz / 64QAM



20MHz / 64QAM



LTE Band 7									
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
20775	2502.5	4.86	6.10	6.71	20800	2505	4.85	6.13	6.66
21100	2535	4.69	5.75	6.50	21100	2535	4.65	5.76	6.46
21425	2567.5	4.69	5.79	6.56	21400	2565	4.65	5.81	6.55
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
20825	2507.5	5.05	6.15	6.77	20850	2510	4.81	6.01	6.72
21100	2535	4.77	5.75	6.49	21100	2535	4.64	5.69	6.45
21375	2562.5	4.84	5.97	6.65	21350	2560	4.65	5.91	6.62



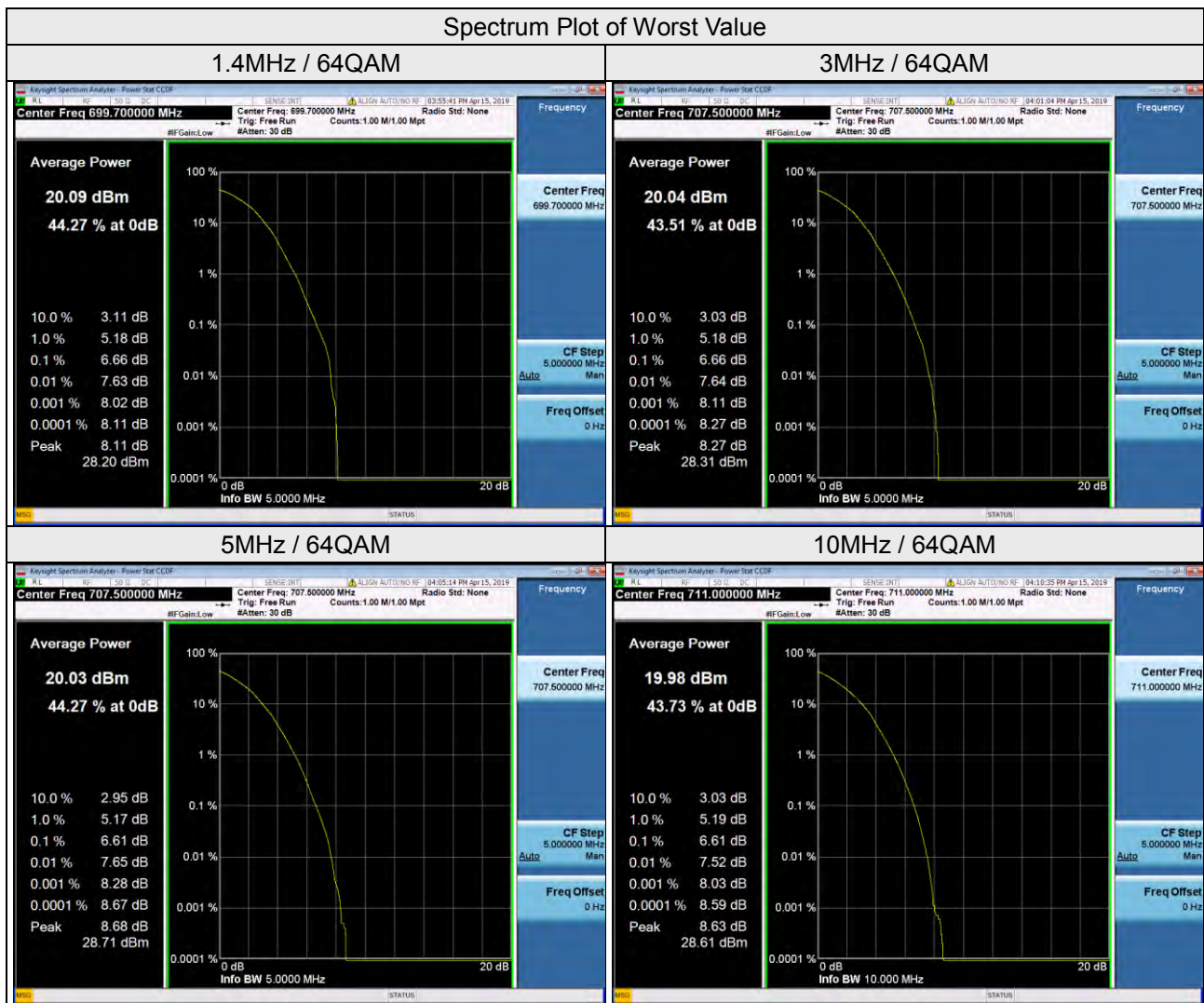
LTE CA_7C

Channel	Freq. (MHz)	Peak to Average Ratio (dB)		
		Peak	Average	Difference
21100+21271	2535+2552.1	10.40	2.09	8.31

Spectrum Plot of Worst Value



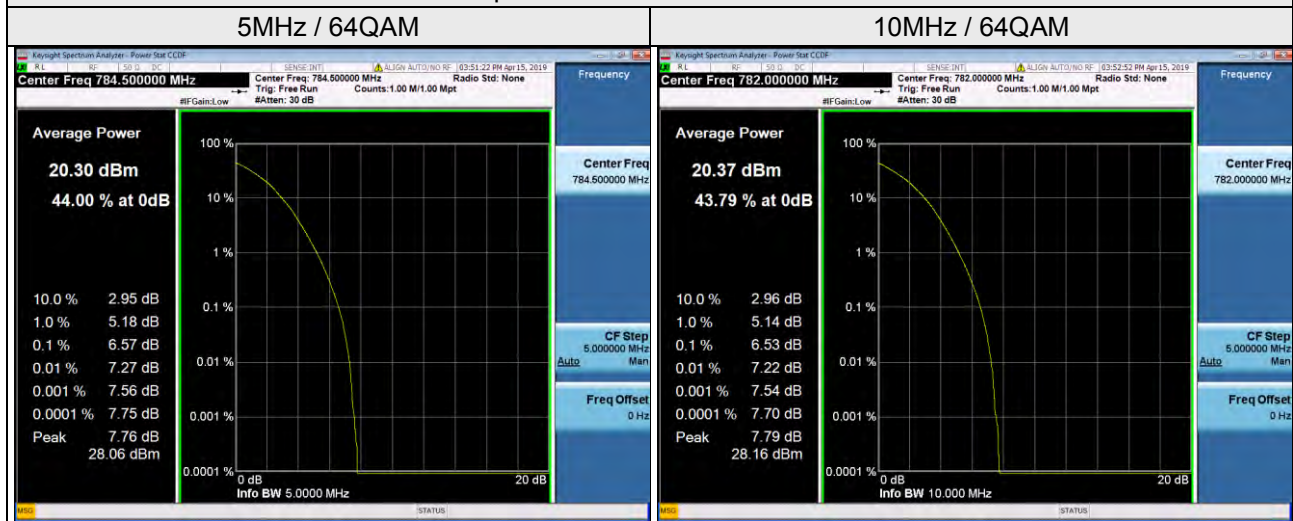
LTE Band 12									
Channel Bandwidth 1.4MHz					Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
23017	699.7	4.85	6.09	6.66	23025	700.5	4.6	6.03	6.65
23095	707.5	4.89	6.10	6.60	23095	707.5	4.65	6.05	6.66
23173	715.3	4.83	6.07	6.60	23165	714.5	4.57	6.03	6.61
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
23035	701.5	4.84	6.07	6.60	23060	704	4.82	6.03	6.58
23095	707.5	4.79	6.08	6.61	23095	707.5	4.81	6.09	6.60
23155	713.5	4.81	6.08	6.60	23130	711	4.8	6.09	6.61



LTE Band 13

Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
23205	779.5	4.79	5.94	6.53	23230	782	4.75	5.94	6.53
23230	782	4.84	5.97	6.56					
23255	784.5	4.79	5.93	6.57					

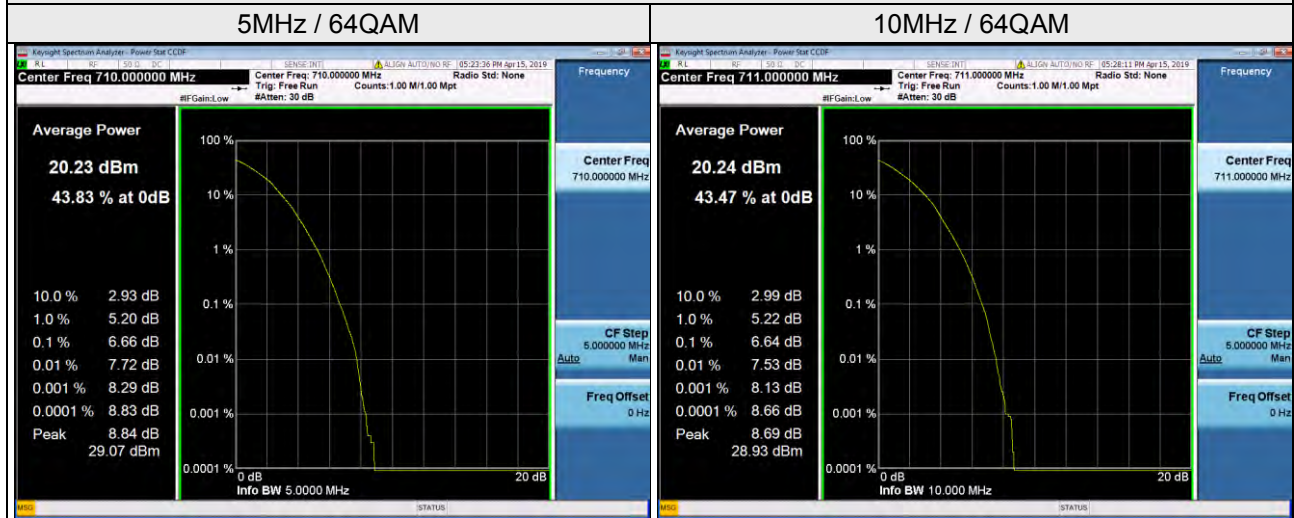
Spectrum Plot of Worst Value



LTE Band 17

Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
23755	706.5	4.86	6.08	6.65	23780	709	4.82	6.08	6.63
23790	710	4.87	6.11	6.66	23790	710	4.83	6.08	6.60
23825	713.5	4.82	6.06	6.65	23800	711	4.82	6.11	6.64

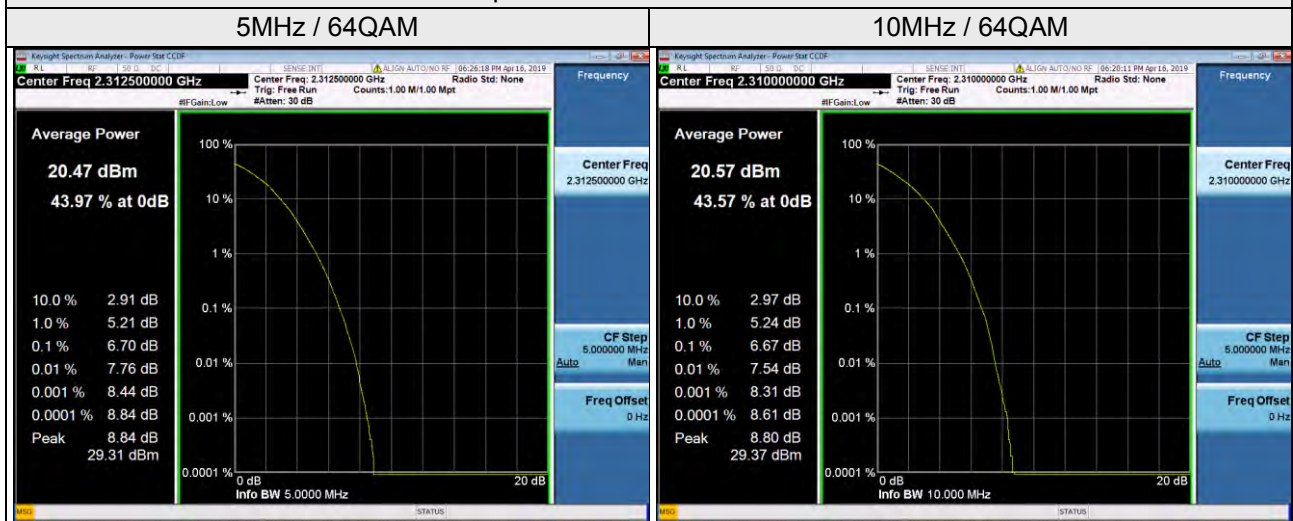
Spectrum Plot of Worst Value



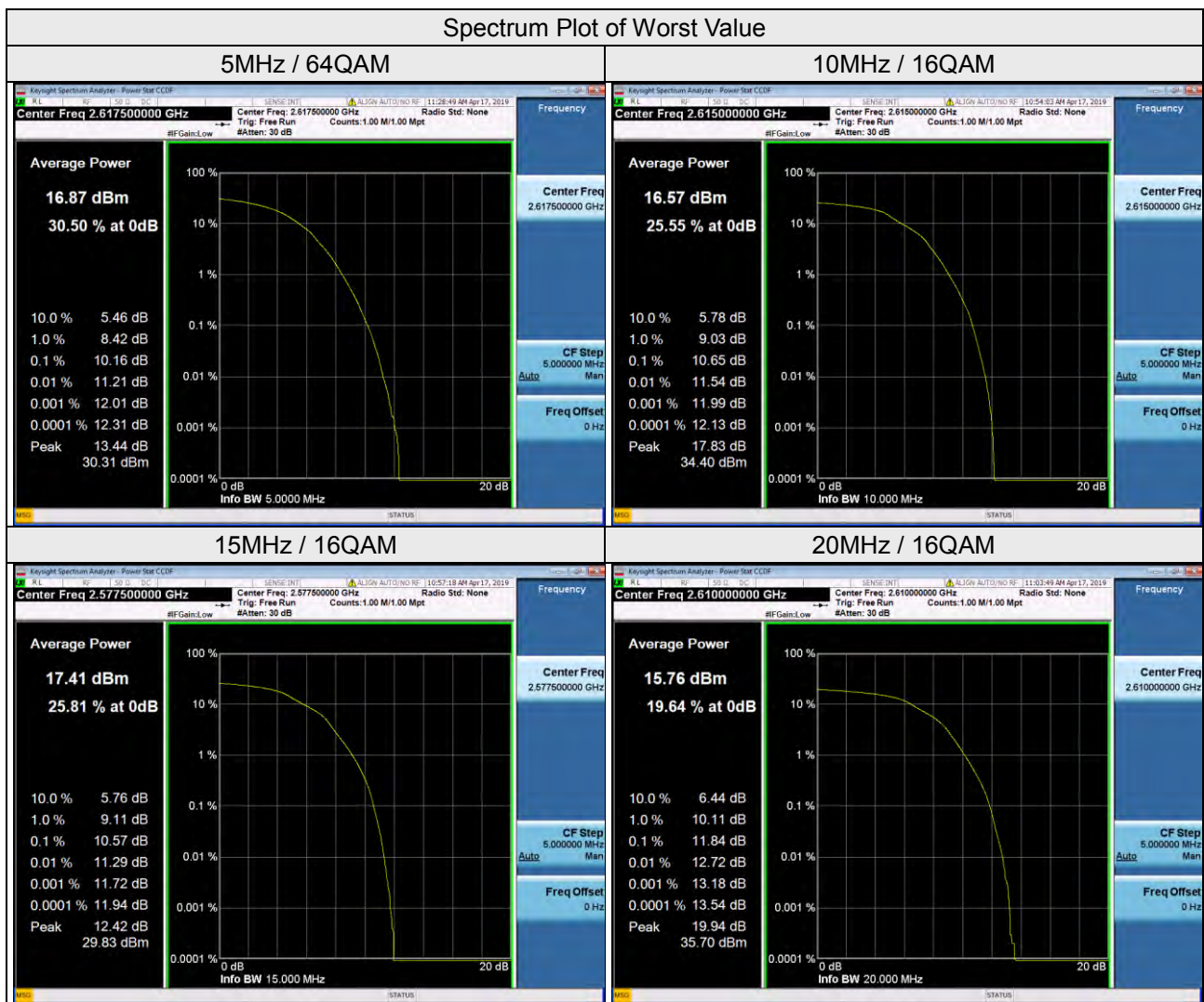
LTE Band 30

Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
27685	2307.5	4.86	6.09	6.66	27710	2310	4.88	6.12	6.67
27710	2310	4.89	6.11	6.69					
27735	2312.5	4.91	6.10	6.70					

Spectrum Plot of Worst Value



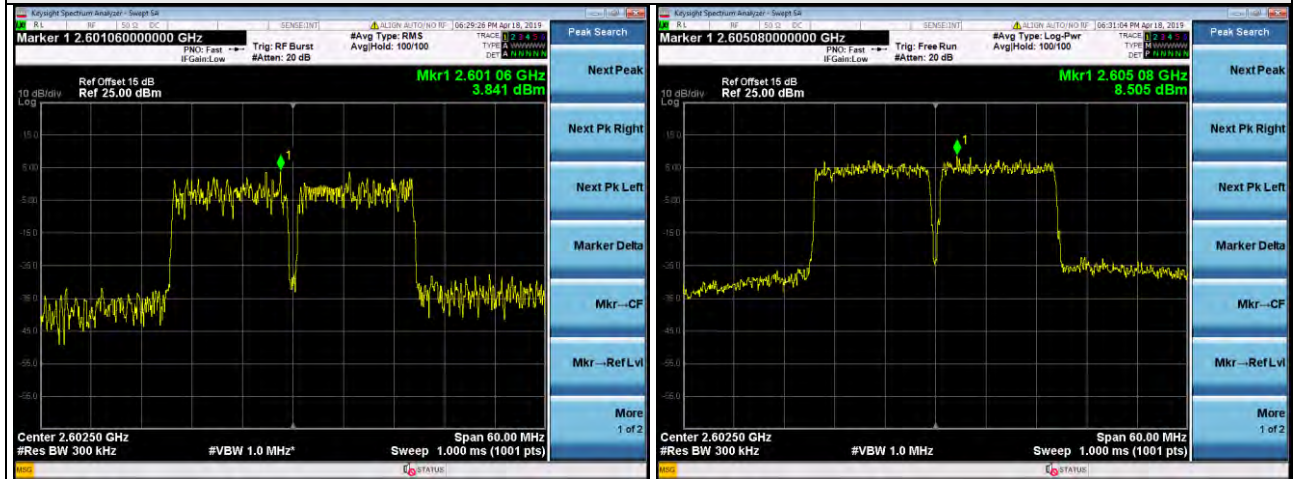
LTE Band 38									
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
37775	2572.5	8.87	9.65	9.71	37800	2575	8.75	9.48	10.26
38000	2595	8.83	9.54	9.68	38000	2595	8.69	9.47	10.15
38225	2617.5	8.95	9.56	10.16	38200	2615	8.79	10.65	9.65
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
37825	2577.5	7.83	10.57	10.37	37850	2580	9.25	9.06	11.48
38000	2595	8.85	9.45	10.55	38000	2595	8.51	10.39	10.48
38175	2612.5	8.78	9.21	10.22	38150	2610	8.66	11.84	10.21



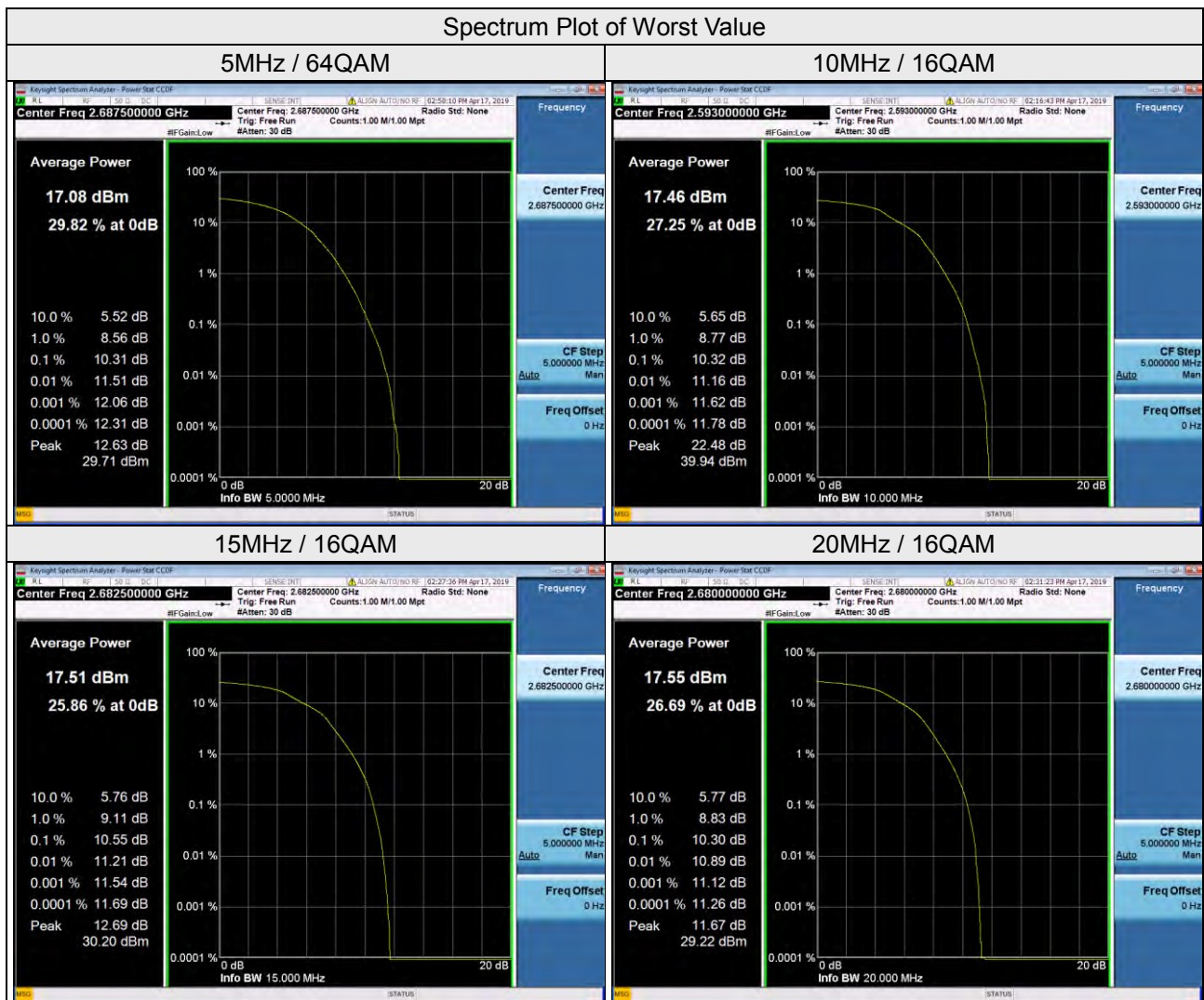
LTE CA_38C

Channel	Freq. (MHz)	Peak to Average Ratio (dB)		
		Peak	Average	Difference
38000+38150	2595+2610	8.50	3.84	4.66

Spectrum Plot of Worst Value



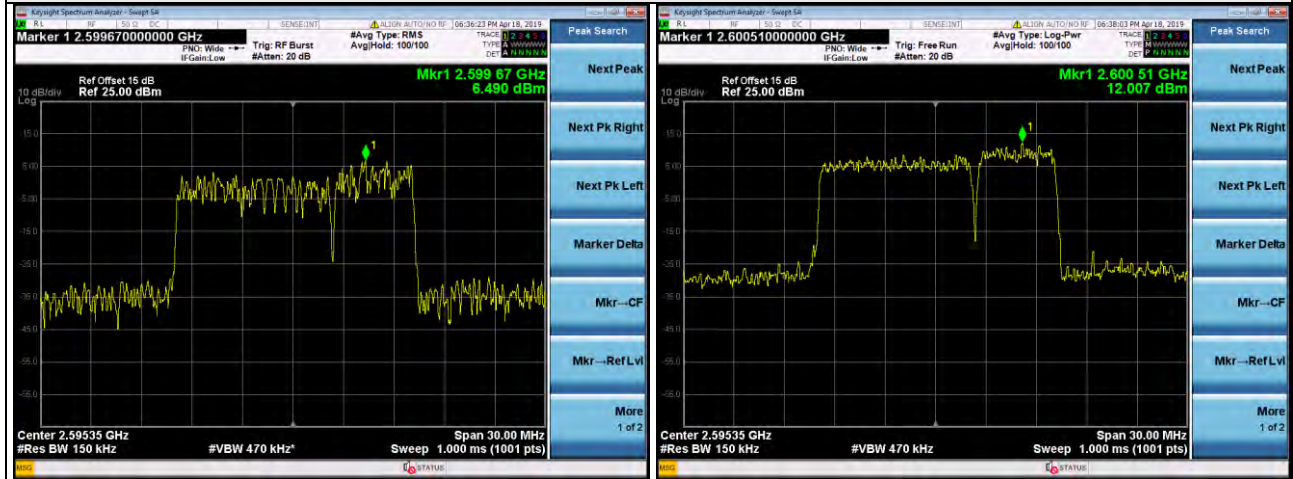
LTE Band 41									
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
39675	2498.5	8.94	9.66	9.85	39700	2501	7.58	9.40	9.41
40620	2593	8.86	9.78	10.11	50620	2593	8.84	10.32	9.37
41565	2687.5	8.99	9.50	10.31	41540	2685	8.63	9.63	10.29
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
39725	2503.5	8.98	9.31	9.41	39750	2506	8.63	9.89	10.13
40620	2593	8.81	10.53	10.25	40620	2593	8.47	8.92	10.26
41515	2682.5	8.85	10.55	9.30	41490	2680	8.50	10.30	9.56



LTE CA_41C

Channel	Freq. (MHz)	Peak to Average Ratio (dB)		
		Peak	Average	Difference
40620+40692	2593+2600.2	12.00	6.49	5.51

Spectrum Plot of Worst Value



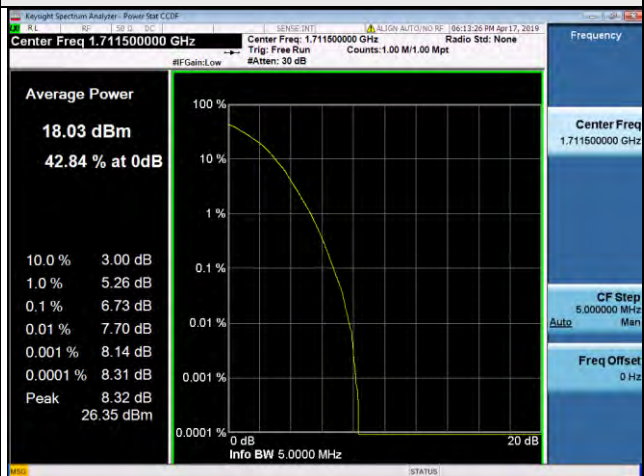
LTE Band 66									
Channel Bandwidth 1.4MHz					Channel Bandwidth 3MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
131979	1710.7	4.94	6.17	6.70	131987	1711.5	4.67	6.06	6.73
132322	1745	4.94	6.11	6.67	132322	1745	4.67	6.08	6.70
132665	1779.3	4.92	6.11	6.66	132657	1778.5	4.63	6.06	6.69
Channel Bandwidth 5MHz					Channel Bandwidth 10MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
131997	1712.5	4.83	6.09	6.71	132022	1715	4.84	6.06	6.65
132322	1745	4.88	6.07	6.69	132322	1745	4.85	6.07	6.66
132647	1777.5	4.87	6.07	6.67	132622	1775	4.86	6.06	6.65
Channel Bandwidth 15MHz					Channel Bandwidth 20MHz				
Channel	Frequency (MHz)	Peak To Average Ratio (dB)			Channel	Frequency (MHz)	Peak To Average Ratio (dB)		
		QPSK	16QAM	64QAM			QPSK	16QAM	64QAM
132047	1717.5	4.99	6.11	6.71	132072	1720	4.68	5.92	6.62
132322	1745	5.01	6.10	6.71	132322	1745	4.75	5.93	6.63
132597	1772.5	5.01	6.11	6.66	132572	1770	4.72	5.96	6.62

Spectrum Plot of Worst Value

1.4MHz / 64QAM



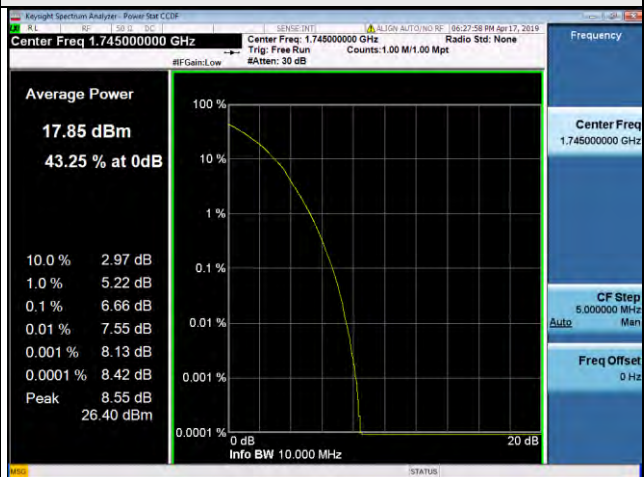
3MHz / 64QAM



5MHz / 64QAM



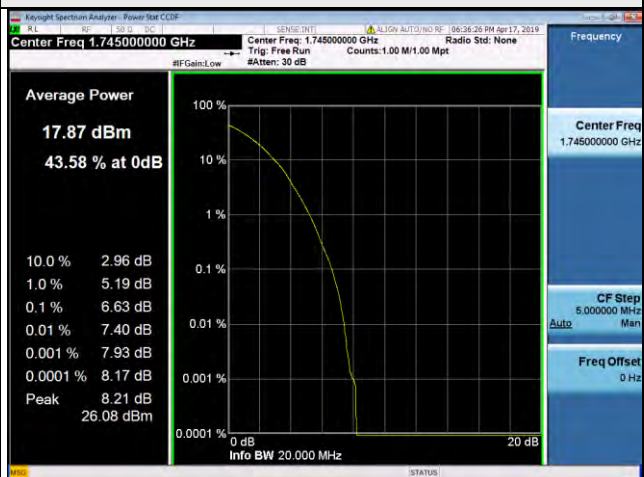
10MHz / 64QAM



15MHz / 64QAM



20MHz / 64QAM



4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

According to FCC 27.53(a)(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

According to FCC 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

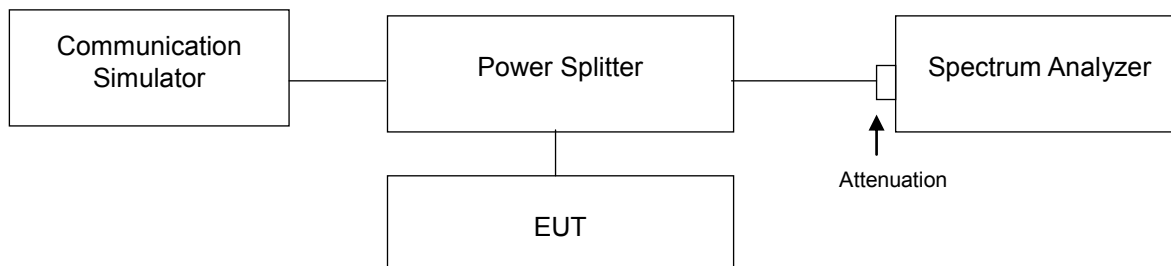
According to FCC 27.53(f) For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

According to FCC 27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) AWS emission limits— General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

According to FCC 27.53(v)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

4.7.2 Test Setup



4.7.3 Test Procedure

- a. All measurements were done at 3 channels: low, middle and high operational frequency range.
- b. When the spectrum scanned from 9 kHz to the tenth harmonic of the highest fundamental frequency, it shall be connected to the 20dB pad attenuated the carried frequency.

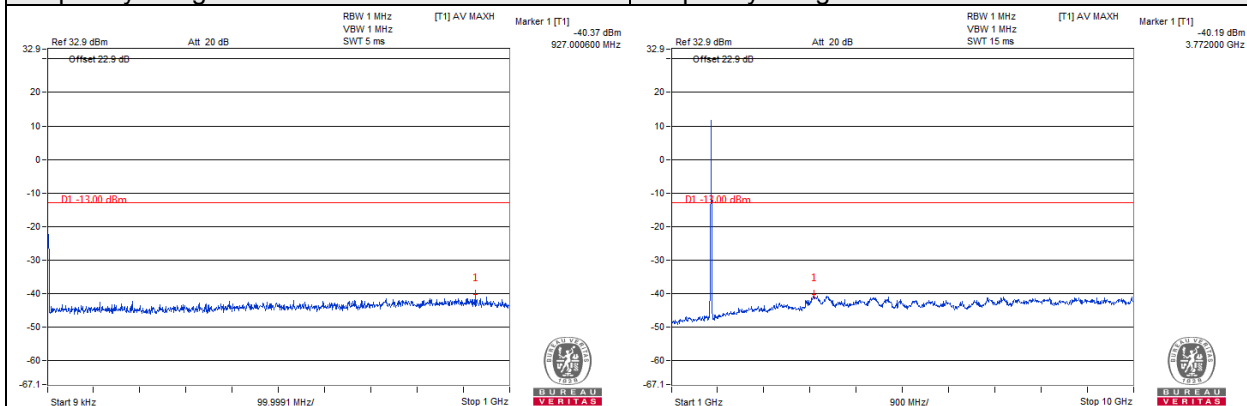
4.7.5 Test Results

WCDMA

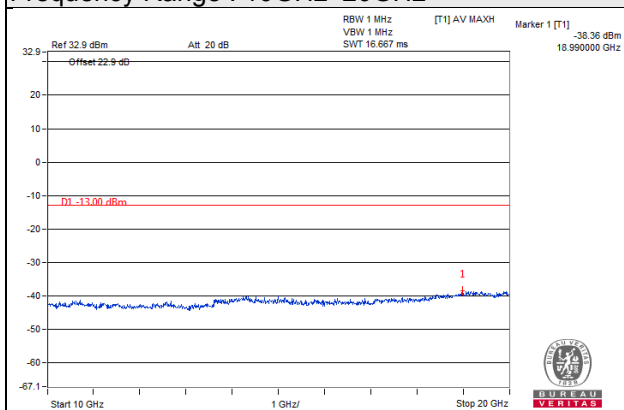
Channel 1312

Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz

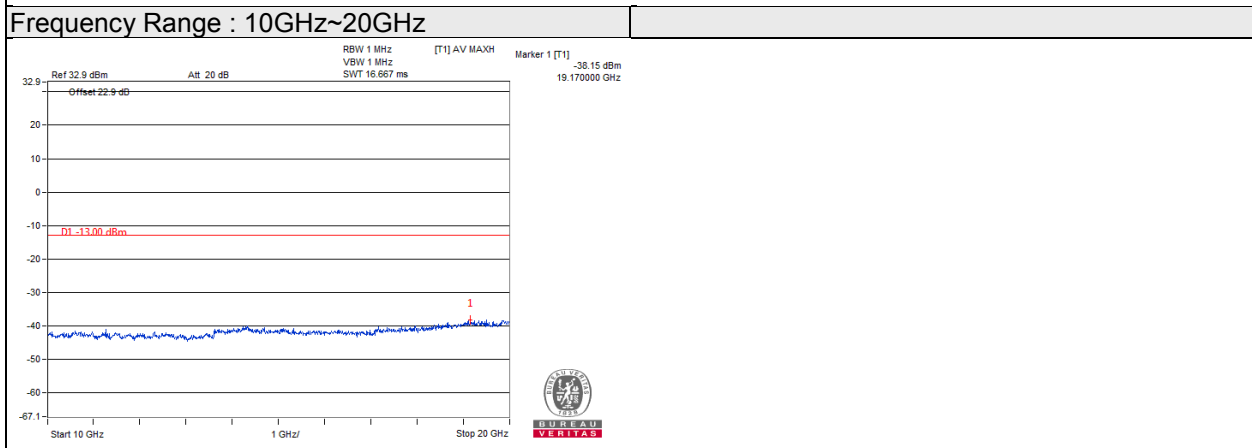
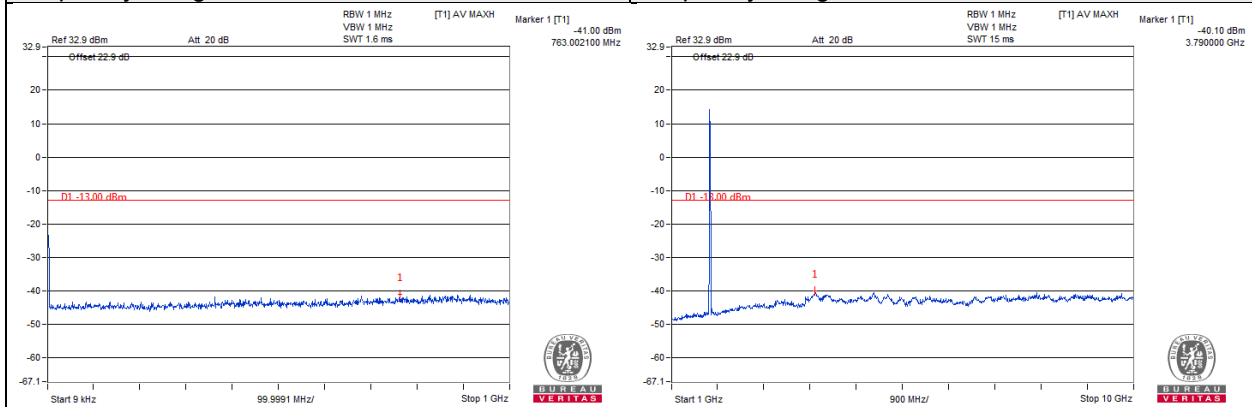


Frequency Range : 10GHz~20GHz



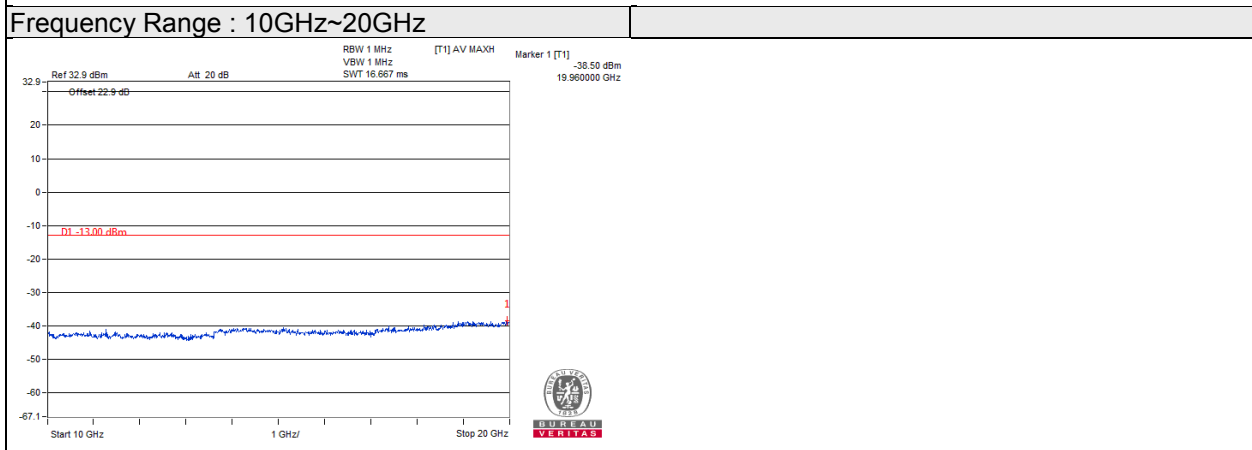
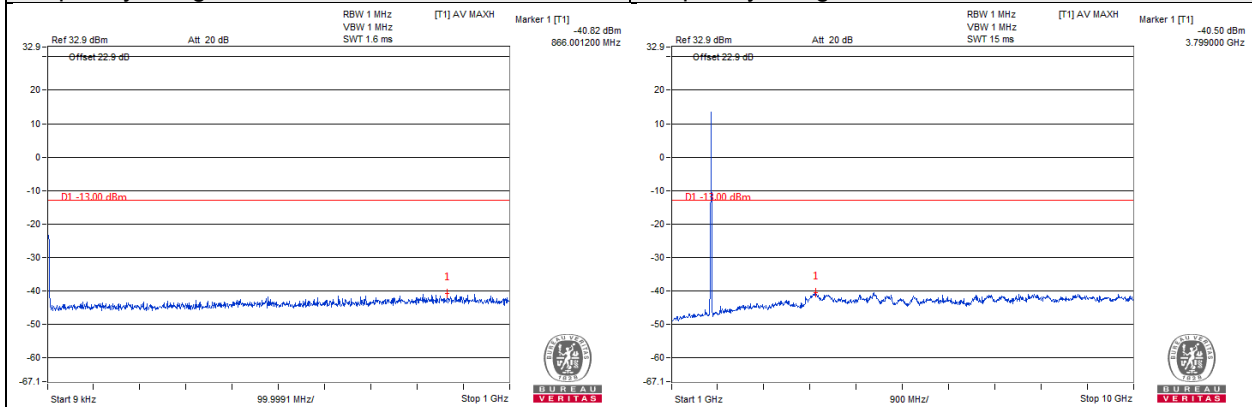
Note: The signal of 9kHz is IF signal from test instrument.

WCDMA	
Channel 1413	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~10GHz



Note: The signal of 9kHz is IF signal from test instrument.

WCDMA	
Channel 1513	
Frequency Range : 9kHz~1GHz	Frequency Range : 1GHz~10GHz

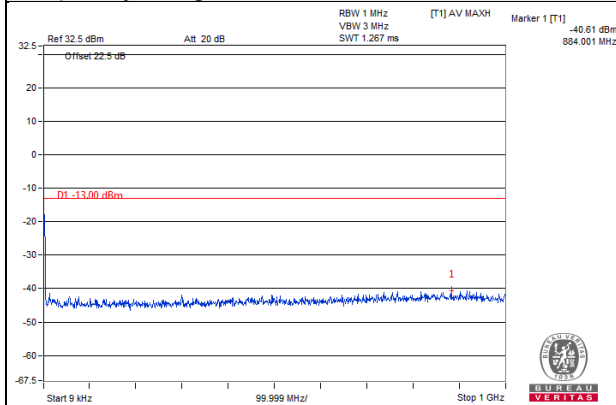


Note: The signal of 9kHz is IF signal from test instrument.

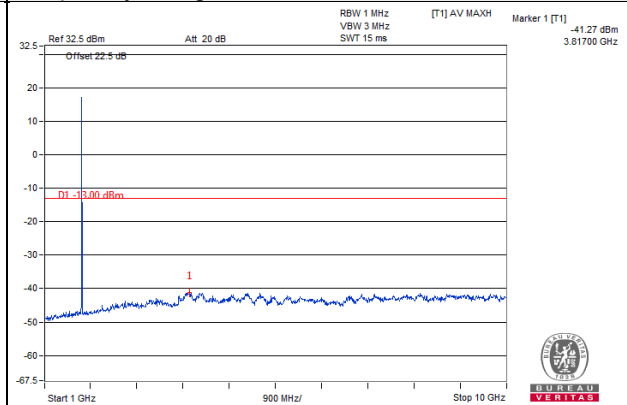
LTE Band 4 Channel Band width: 1.4MHz

Channel 19957

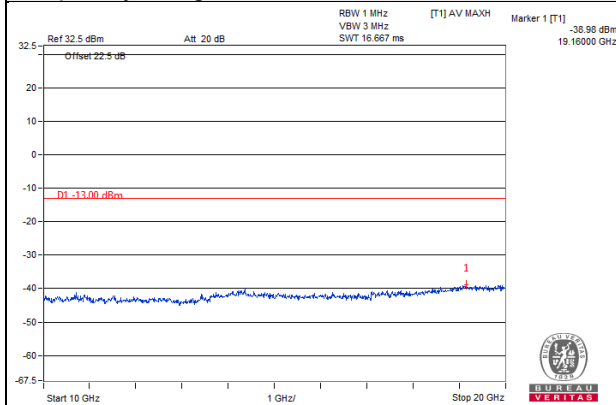
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

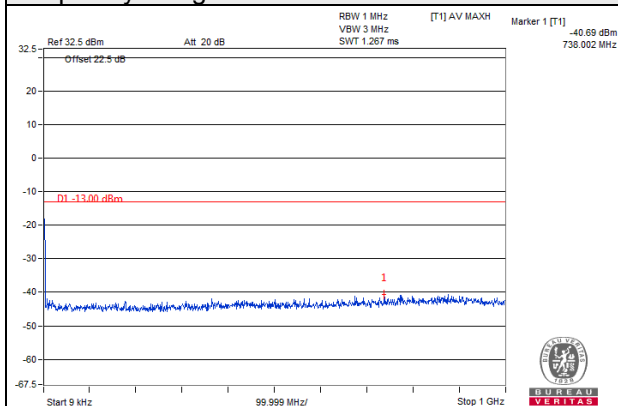


Note: The signal of 9kHz is IF signal from test instrument.

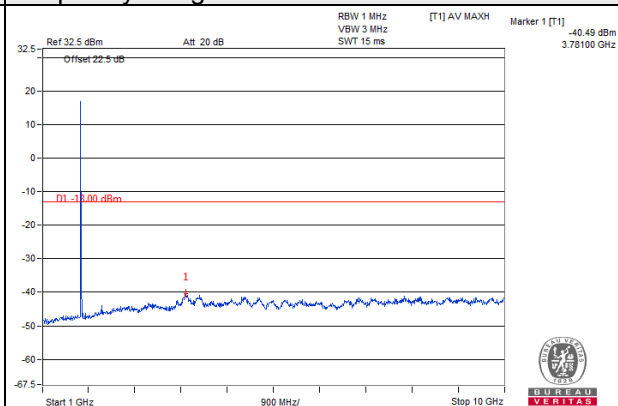
LTE Band 4 Channel Band width: 1.4MHz

Channel 20175

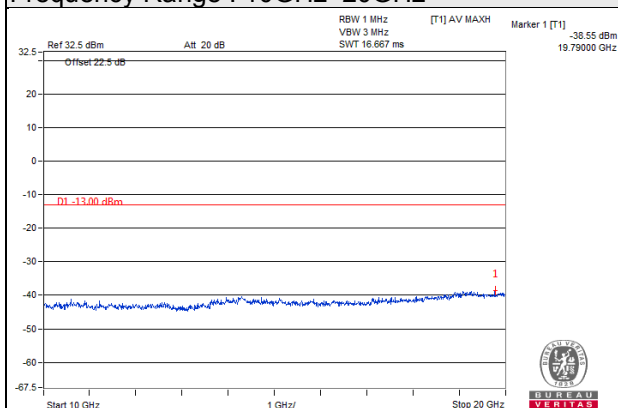
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

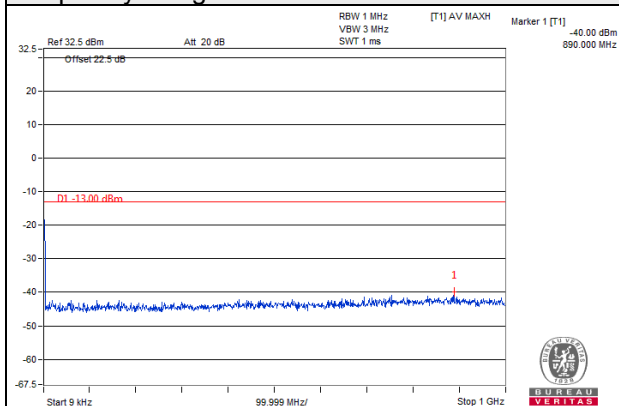


Note: The signal of 9kHz is IF signal from test instrument.

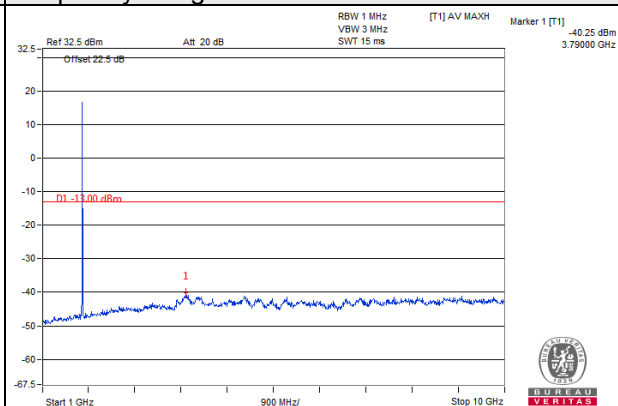
LTE Band 4 Channel Band width: 1.4MHz

Channel 20393

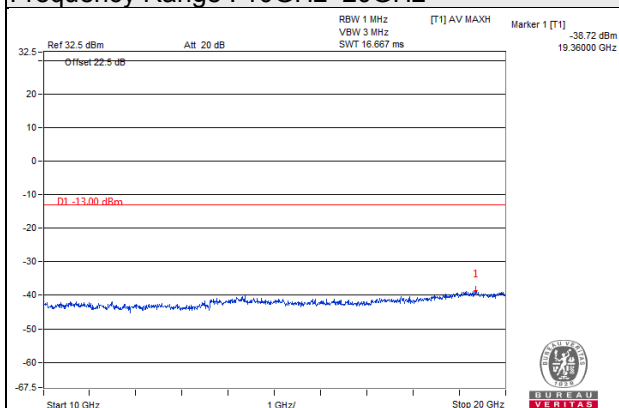
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

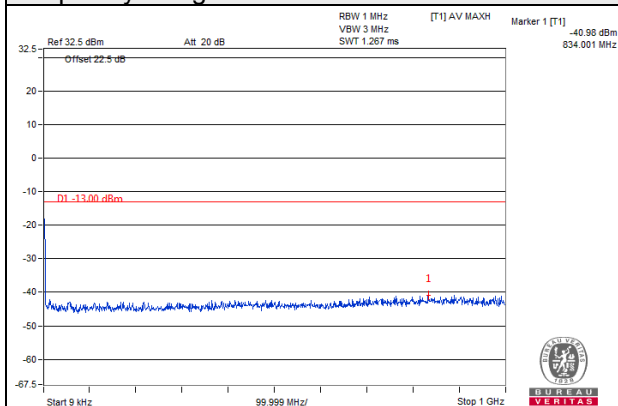


Note: The signal of 9kHz is IF signal from test instrument.

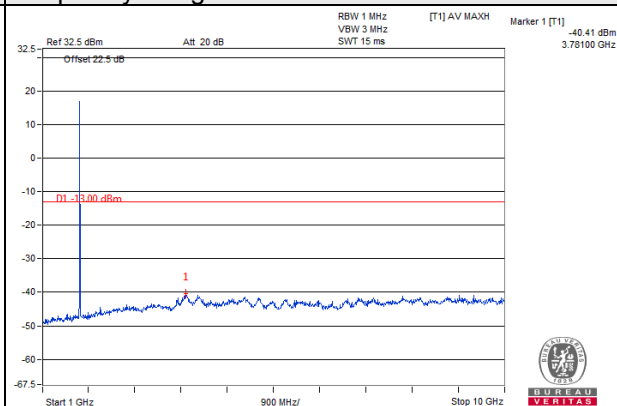
LTE Band 4 Channel Band width: 3MHz

Channel 19965

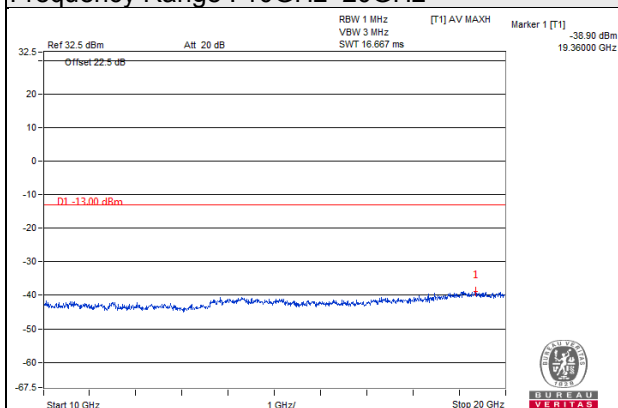
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

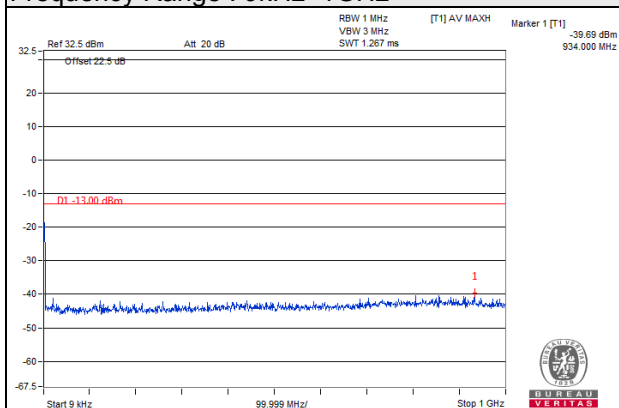


Note: The signal of 9kHz is IF signal from test instrument.

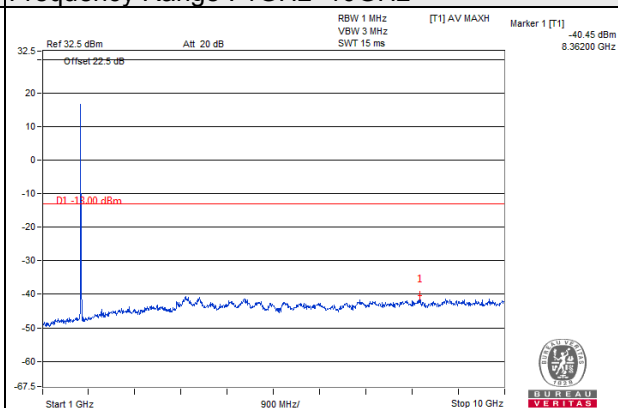
LTE Band 4 Channel Band width: 3MHz

Channel 20175

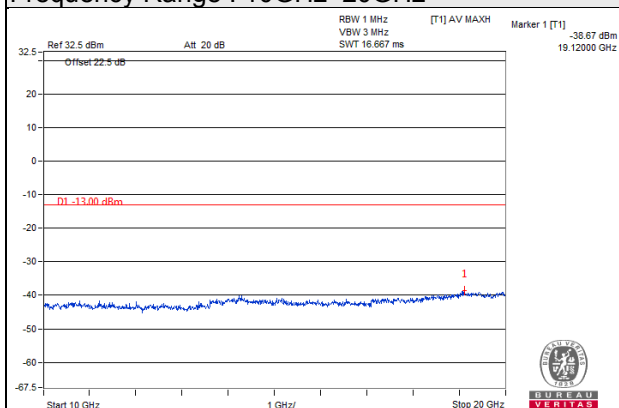
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

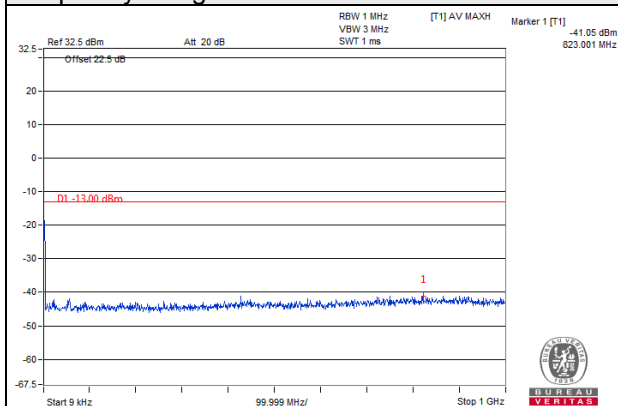


Note: The signal of 9kHz is IF signal from test instrument.

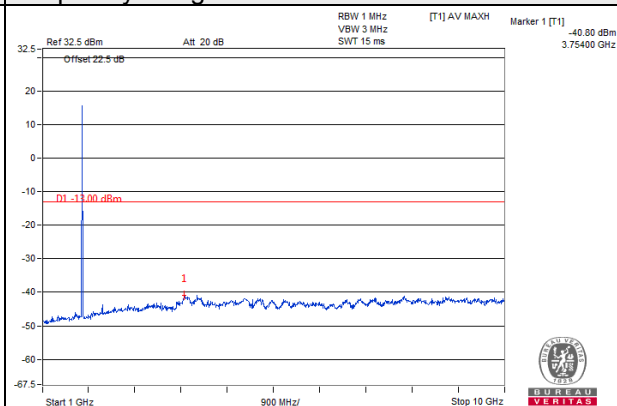
LTE Band 4 Channel Band width: 3MHz

Channel 20385

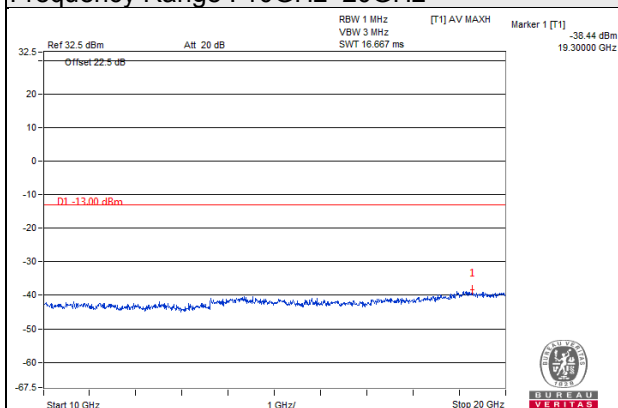
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

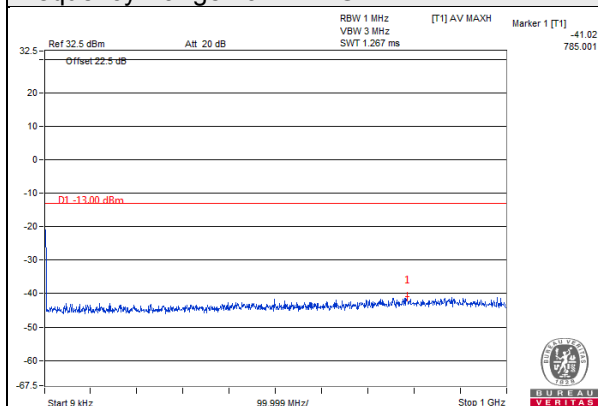


Note: The signal of 9kHz is IF signal from test instrument.

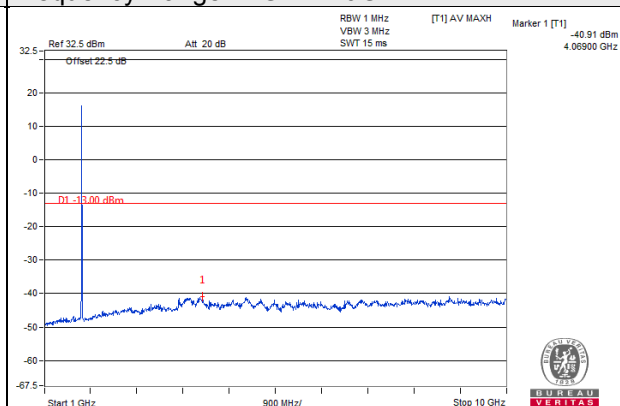
LTE Band 4 Channel Band width: 5MHz

Channel 19975

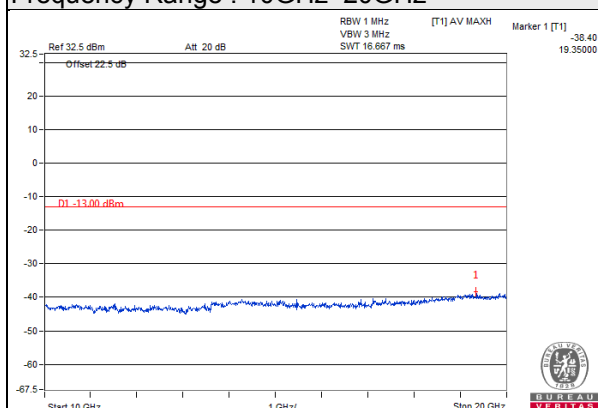
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

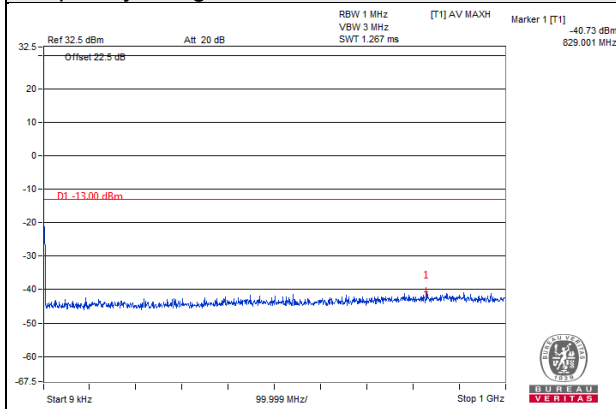


Note: The signal of 9kHz is IF signal from test instrument.

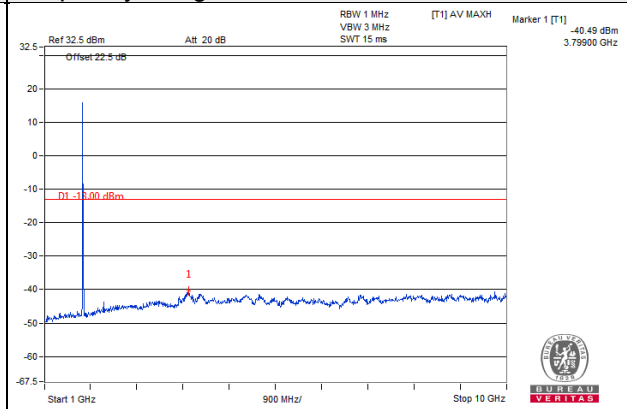
LTE Band 4 Channel Band width: 5MHz

Channel 20175

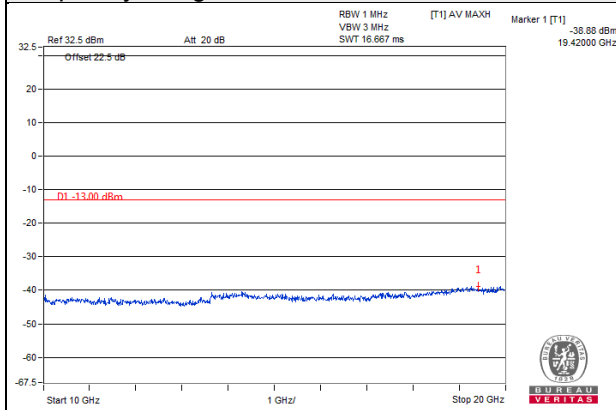
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

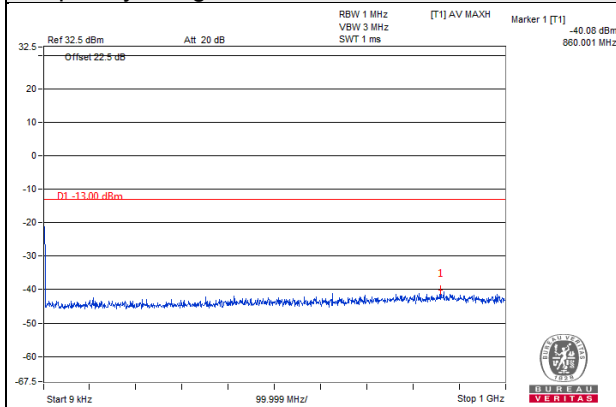


Note: The signal of 9kHz is IF signal from test instrument.

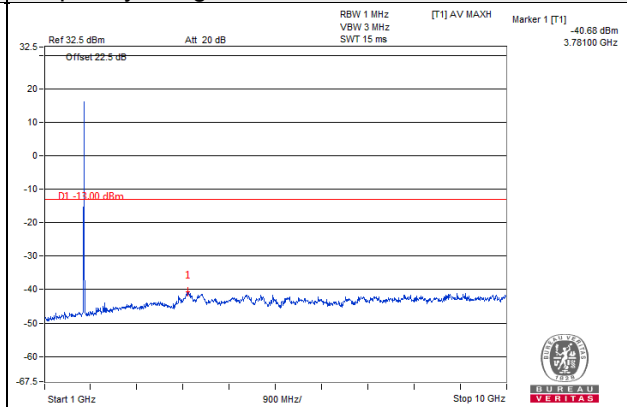
LTE Band 4 Channel Band width: 5MHz

Channel 20375

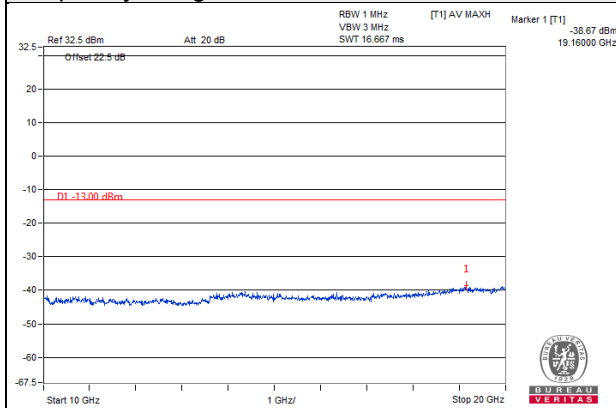
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

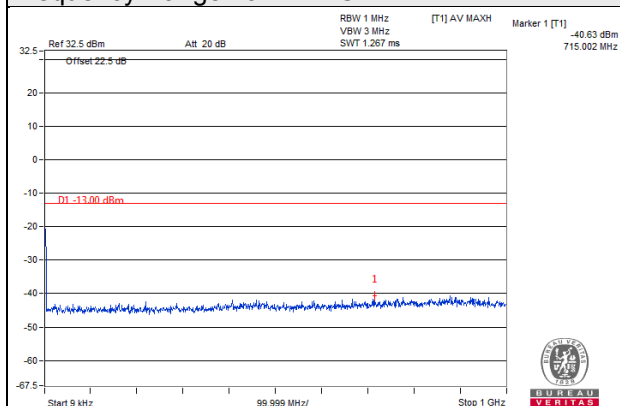


Note: The signal of 9kHz is IF signal from test instrument.

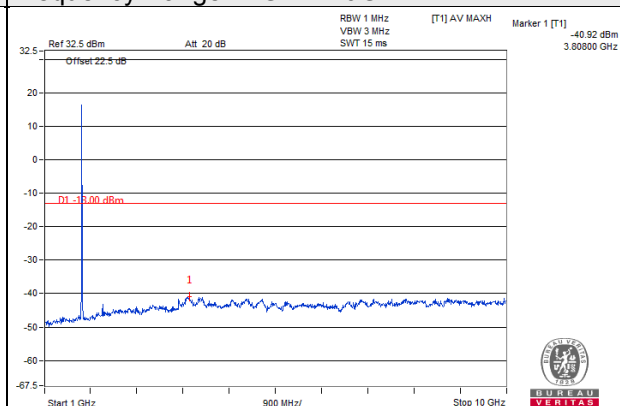
LTE Band 4 Channel Band width: 10MHz

Channel 20000

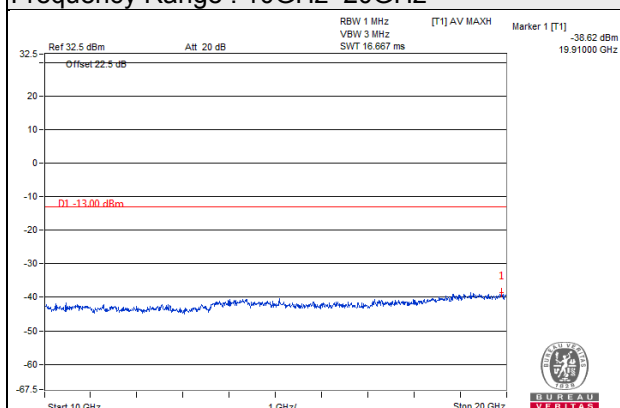
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

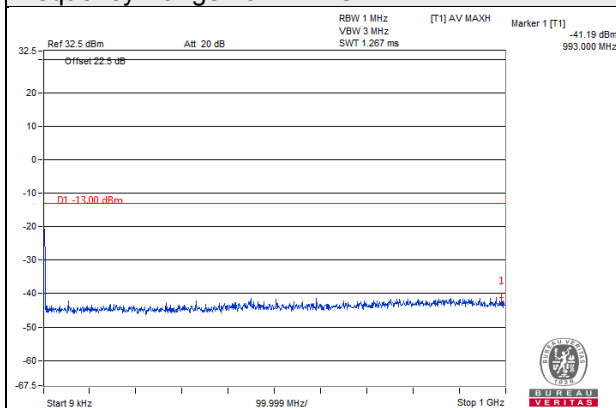


Note: The signal of 9kHz is IF signal from test instrument.

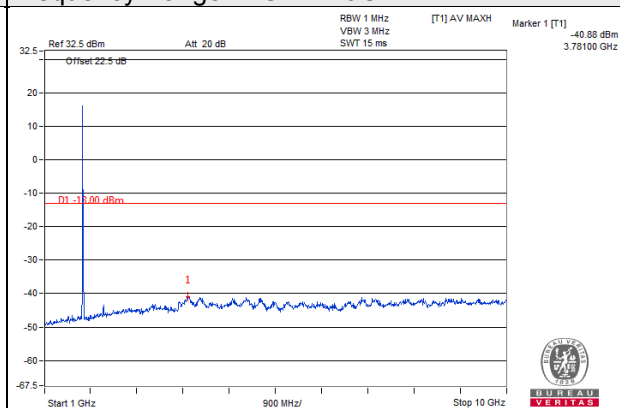
LTE Band 4 Channel Band width: 10MHz

Channel 20175

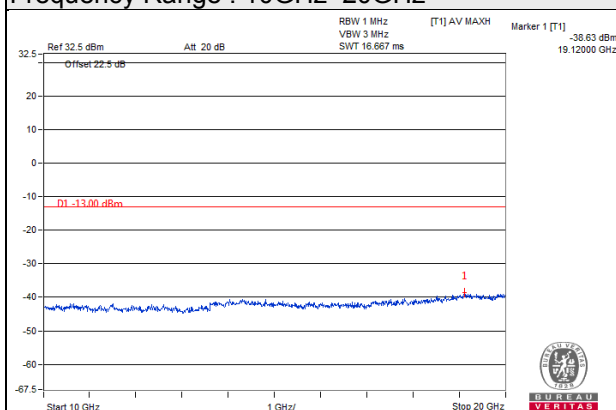
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

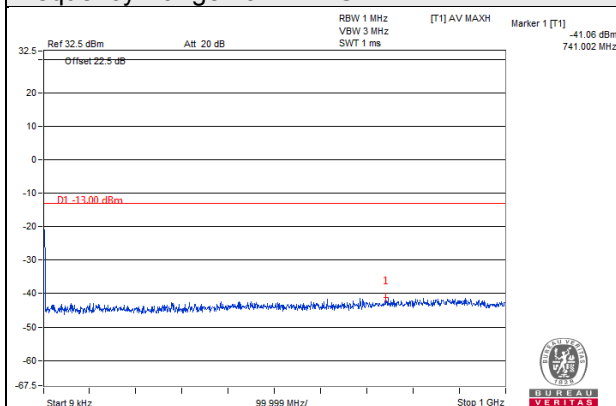


Note: The signal of 9kHz is IF signal from test instrument.

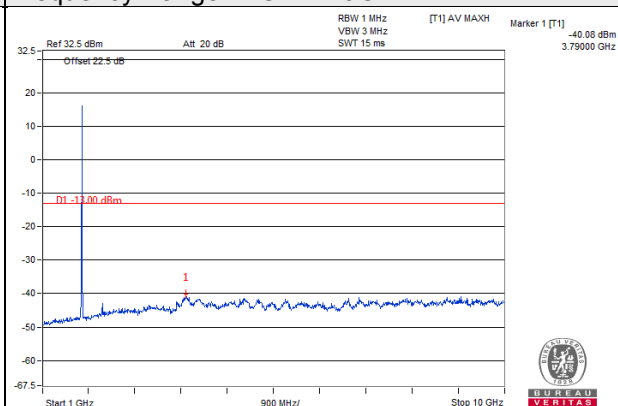
LTE Band 4 Channel Band width: 10MHz

Channel 20350

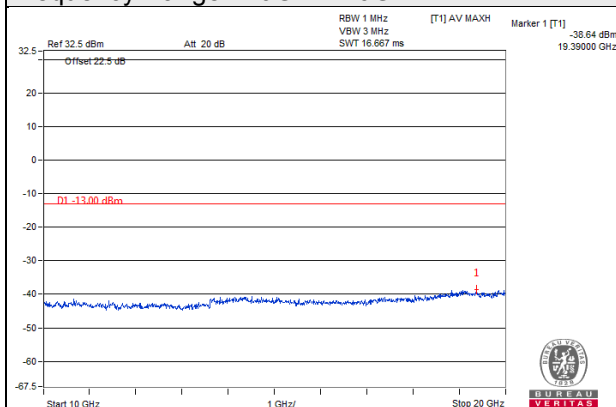
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

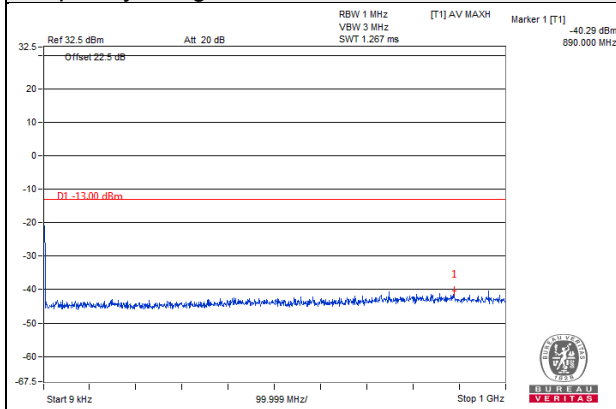


Note: The signal of 9kHz is IF signal from test instrument.

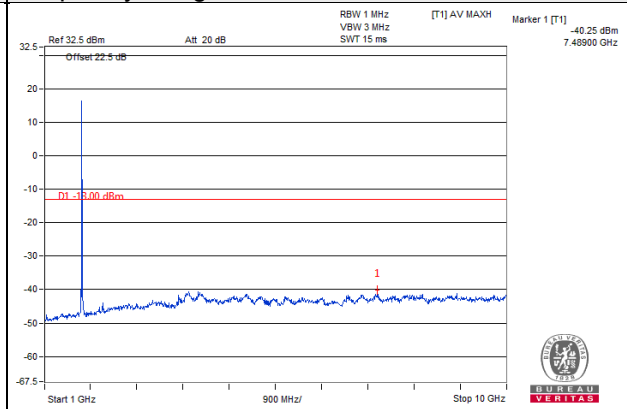
LTE Band 4 Channel Band width: 15MHz

Channel 20025

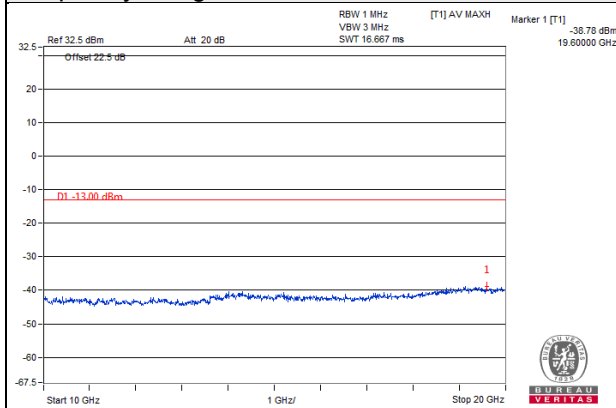
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

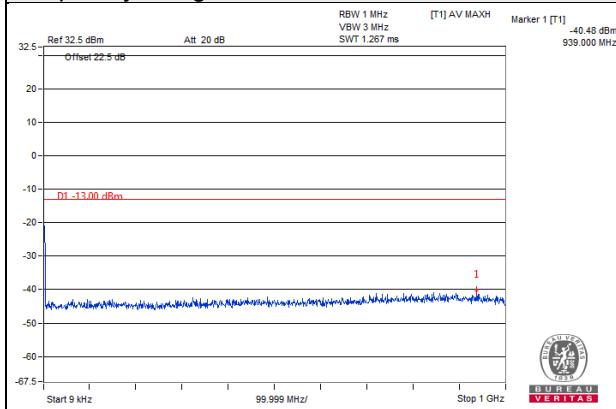


Note: The signal of 9kHz is IF signal from test instrument.

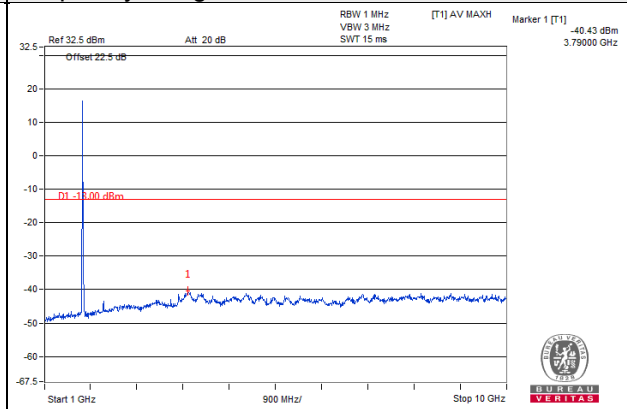
LTE Band 4 Channel Band width: 15MHz

Channel 20175

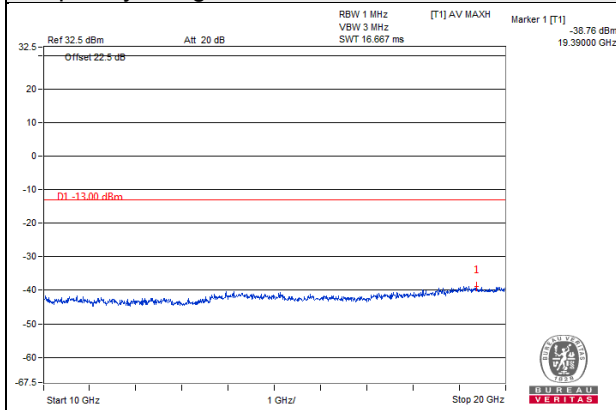
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

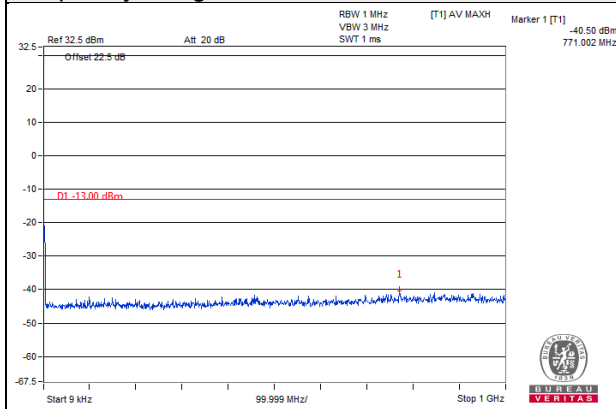


Note: The signal of 9kHz is IF signal from test instrument.

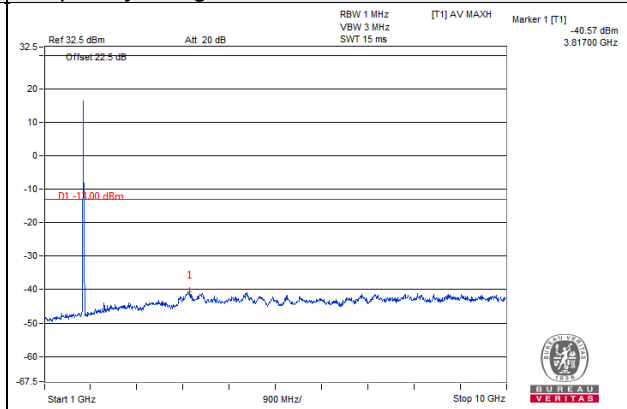
LTE Band 4 Channel Band width: 15MHz

Channel 20325

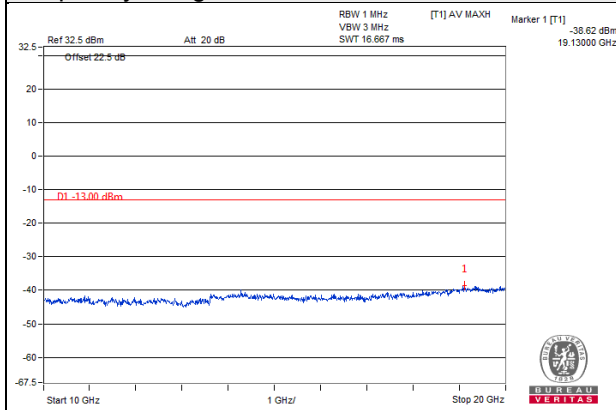
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

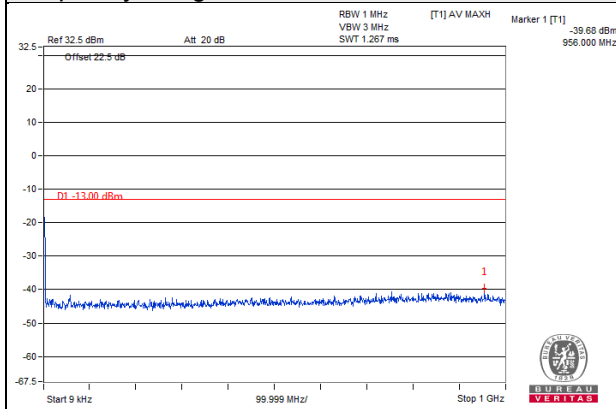


Note: The signal of 9kHz is IF signal from test instrument.

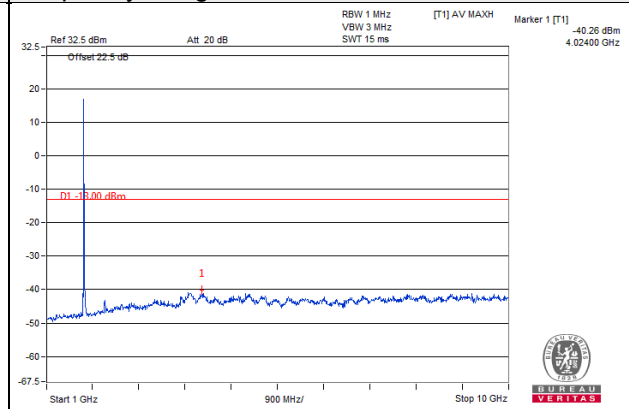
LTE Band 4 Channel Band width: 20MHz

Channel 20050

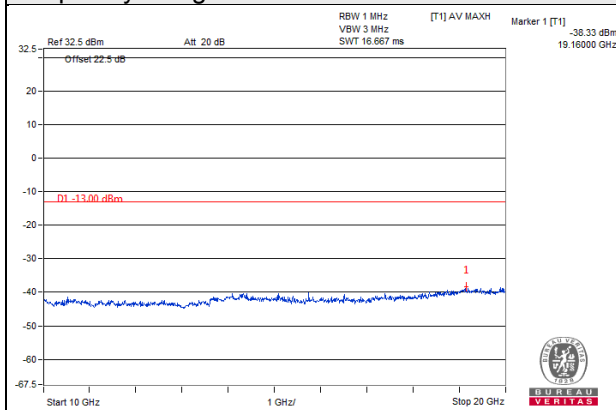
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

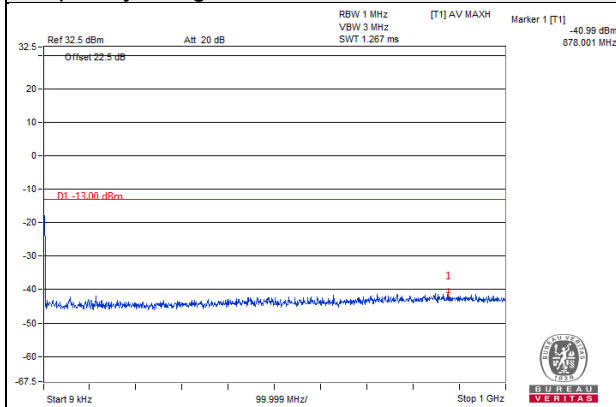


Note: The signal of 9kHz is IF signal from test instrument.

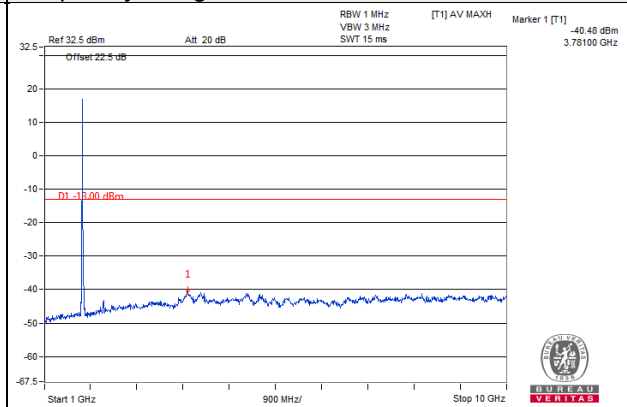
LTE Band 4 Channel Band width: 20MHz

Channel 20175

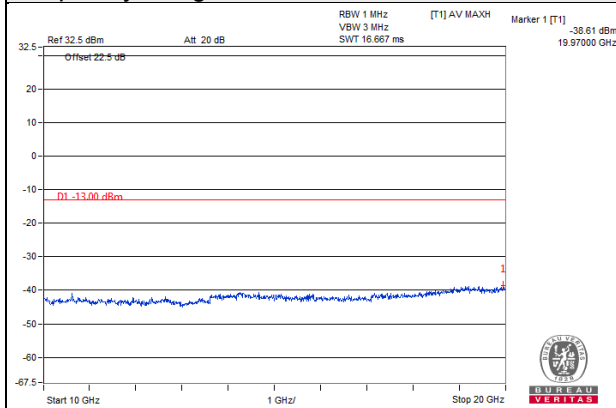
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

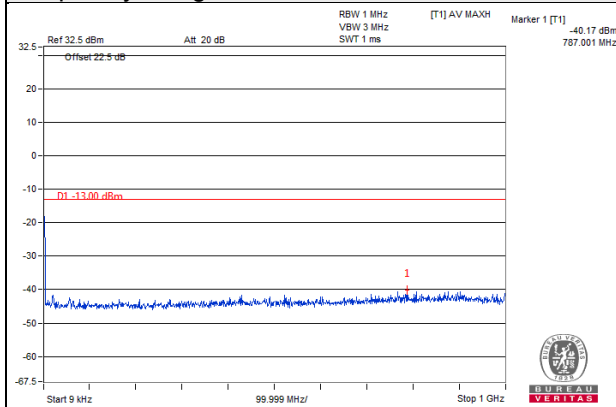


Note: The signal of 9kHz is IF signal from test instrument.

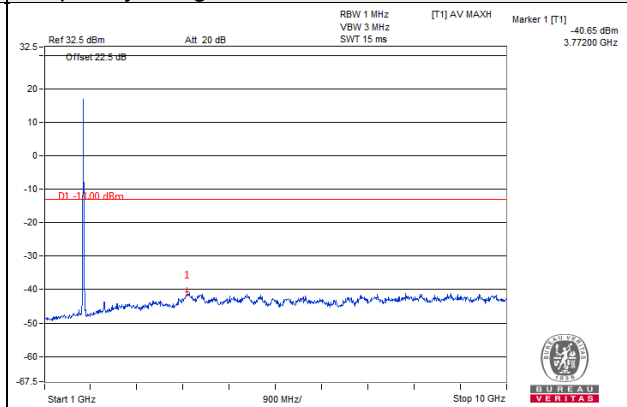
LTE Band 4 Channel Band width: 20MHz

Channel 20300

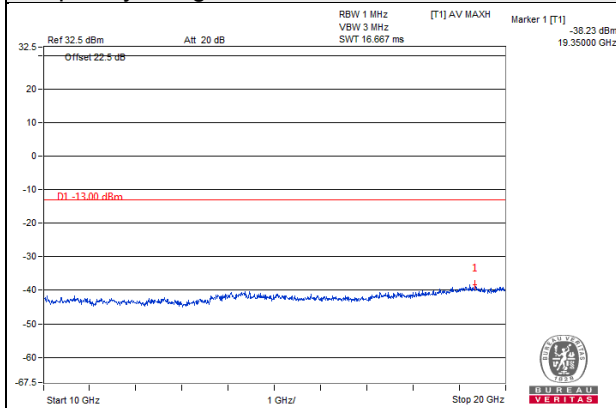
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

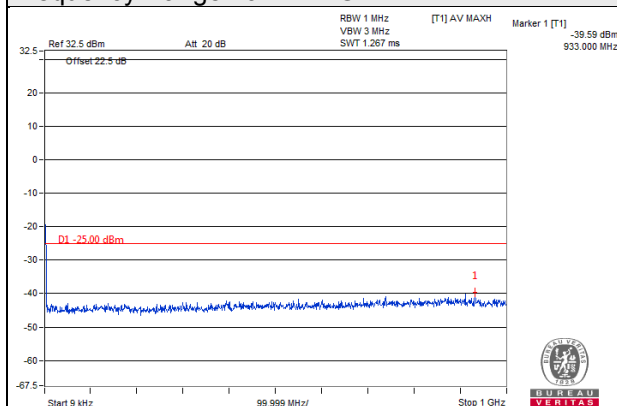


Note: The signal of 9kHz is IF signal from test instrument.

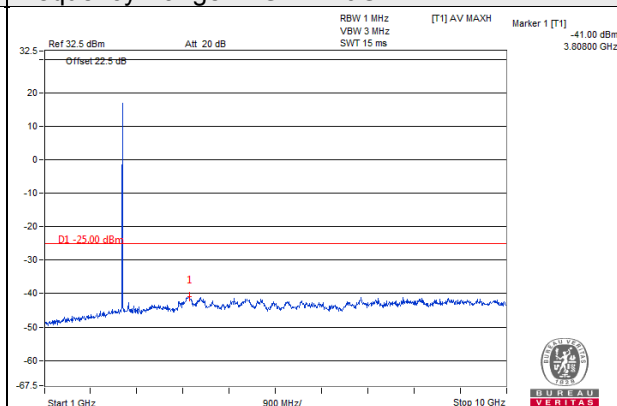
LTE Band 7 Channel Band width: 5MHz

Channel 20775

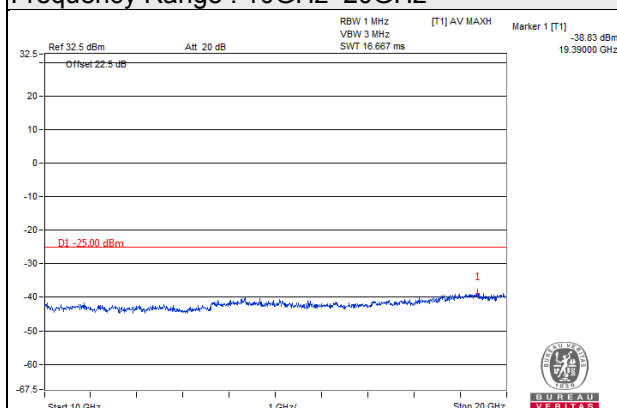
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

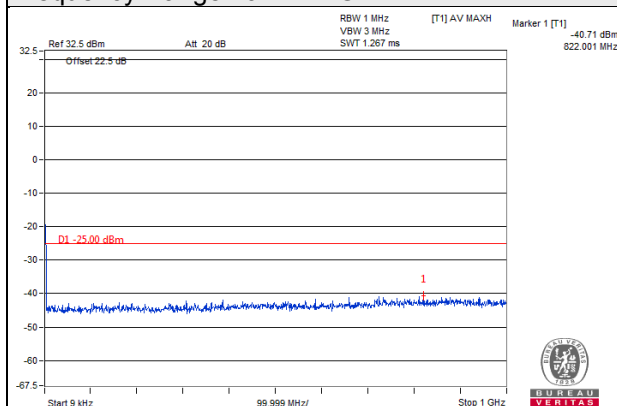


Note: The signal of 9kHz is IF signal from test instrument.

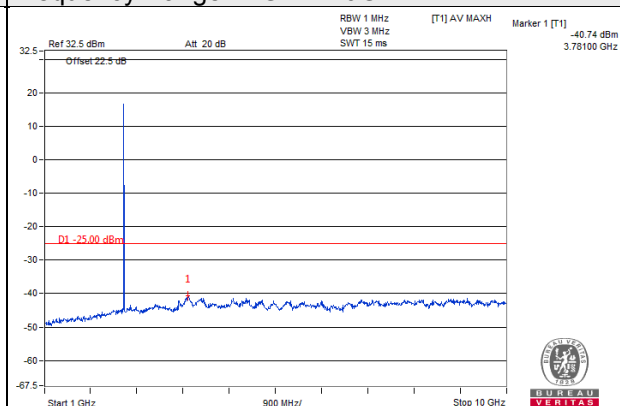
LTE Band 7 Channel Band width: 5MHz

Channel 21100

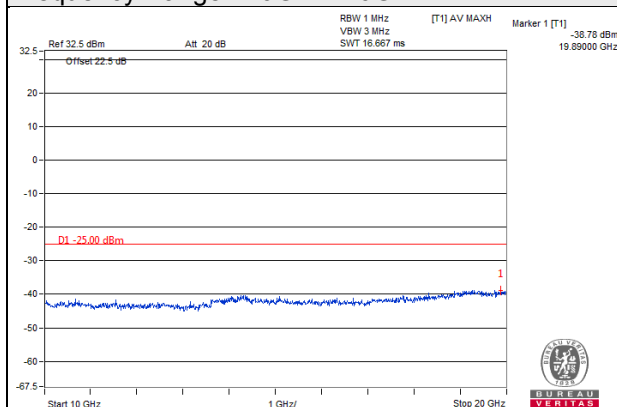
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

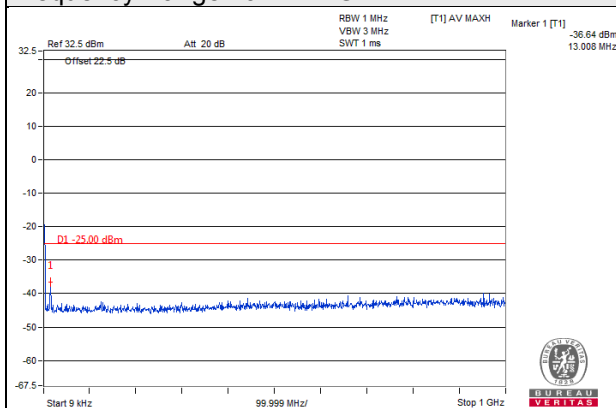


Note: The signal of 9kHz is IF signal from test instrument.

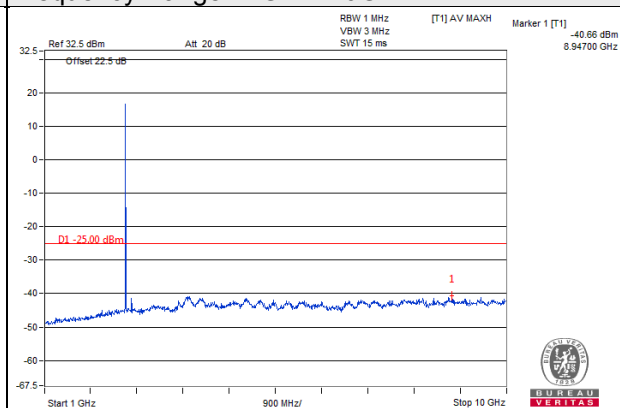
LTE Band 7 Channel Band width: 5MHz

Channel 21425

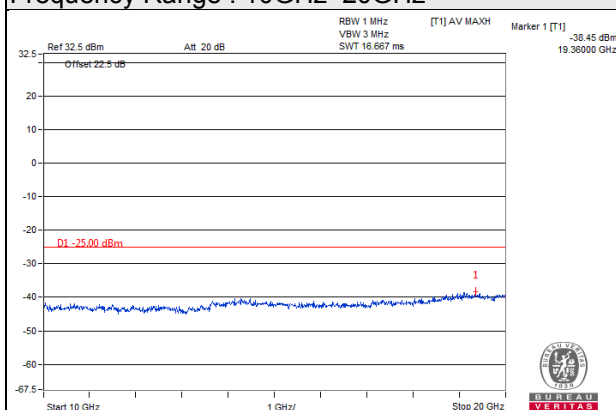
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

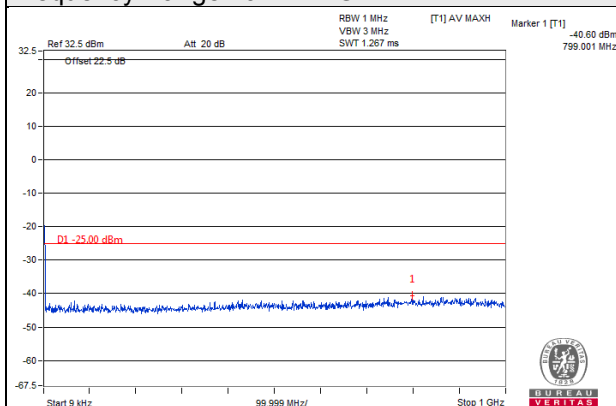


Note: The signal of 9kHz is IF signal from test instrument.

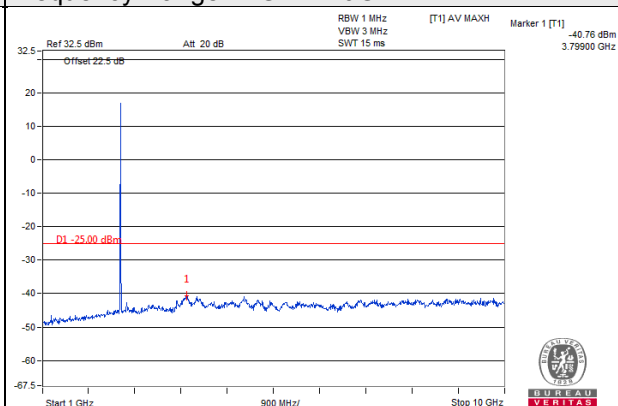
LTE Band 7 Channel Band width: 10MHz

Channel 20800

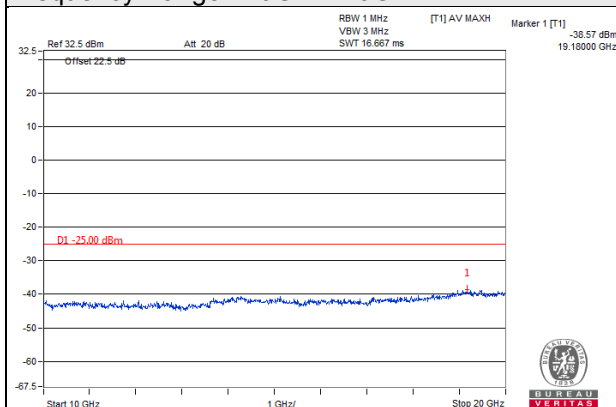
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

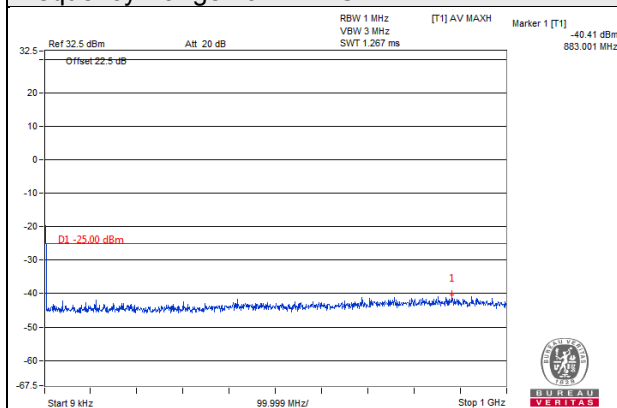


Note: The signal of 9kHz is IF signal from test instrument.

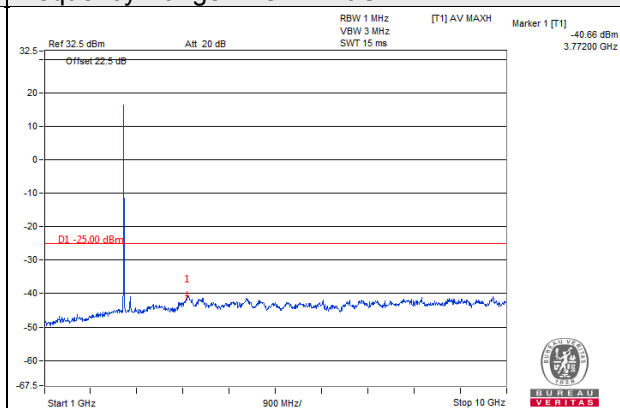
LTE Band 7 Channel Band width: 10MHz

Channel 21100

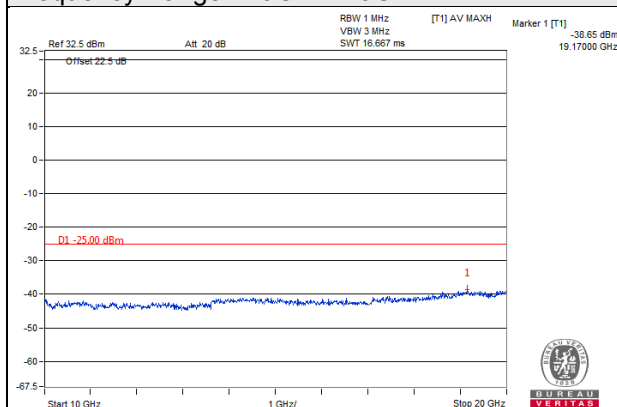
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

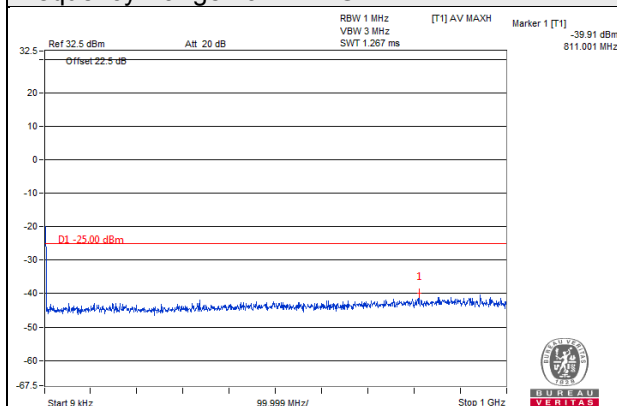


Note: The signal of 9kHz is IF signal from test instrument.

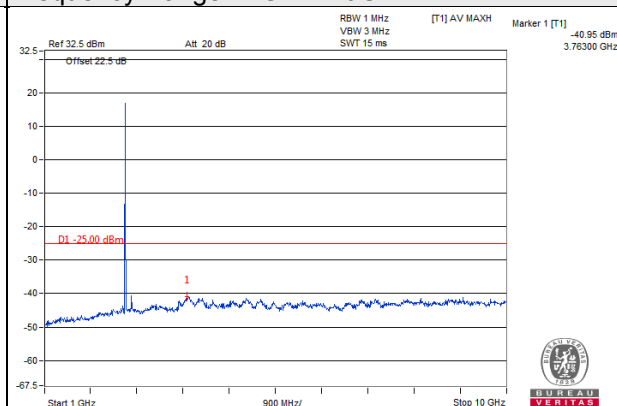
LTE Band 7 Channel Band width: 10MHz

Channel 21400

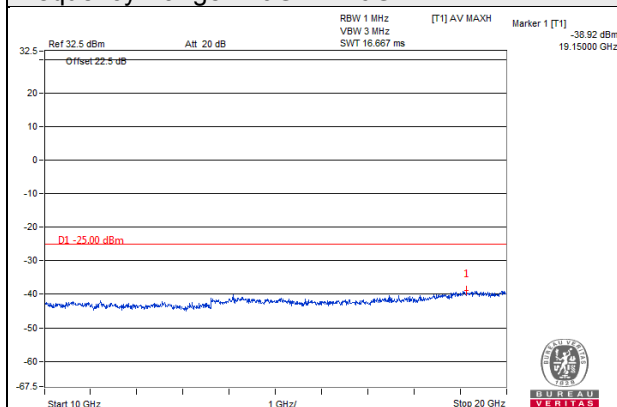
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

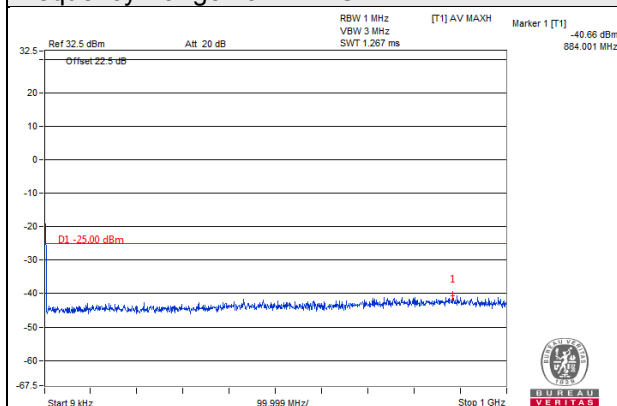


Note: The signal of 9kHz is IF signal from test instrument.

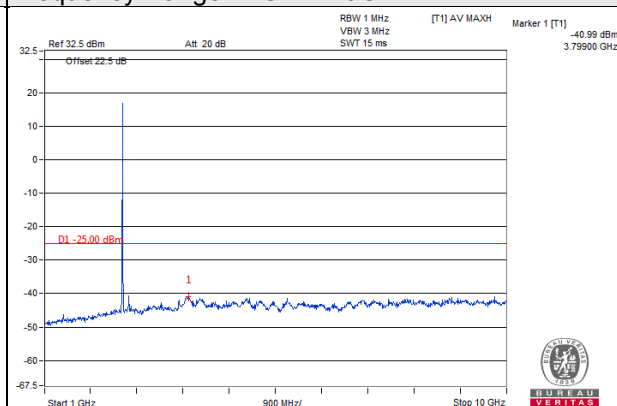
LTE Band 7 Channel Band width: 15MHz

Channel 20825

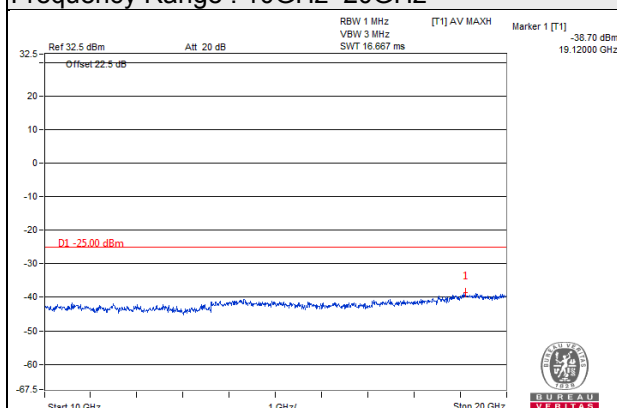
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

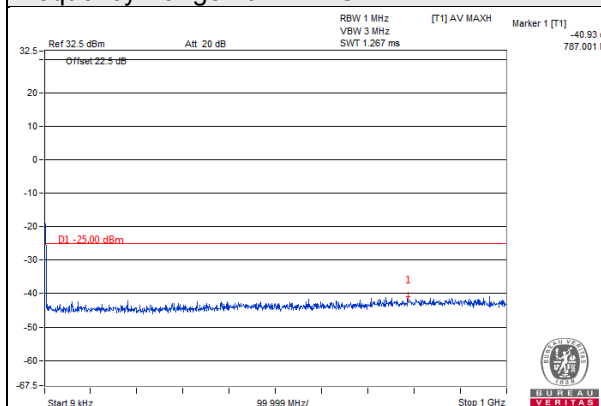


Note: The signal of 9kHz is IF signal from test instrument.

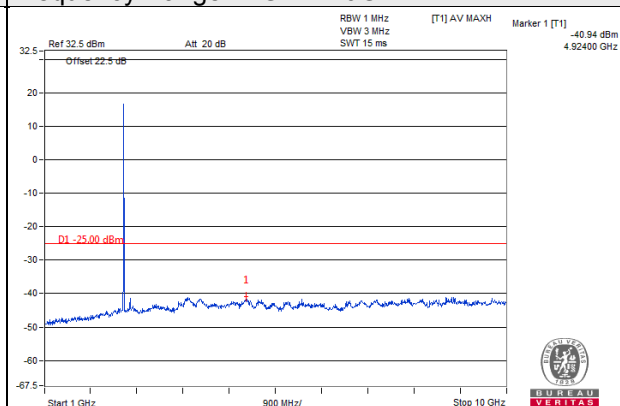
LTE Band 7 Channel Band width: 15MHz

Channel 21100

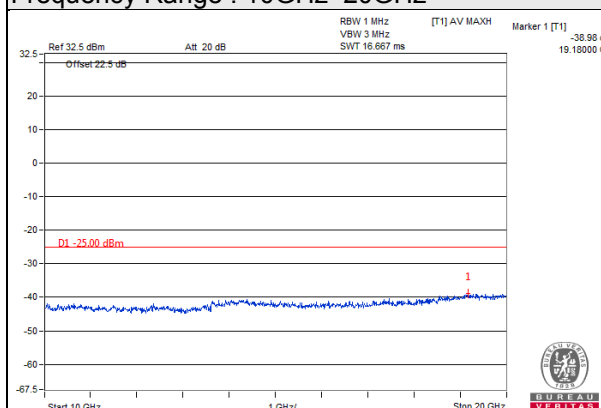
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

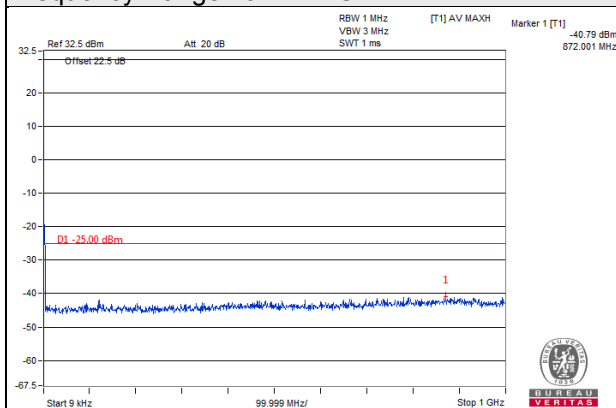


Note: The signal of 9kHz is IF signal from test instrument.

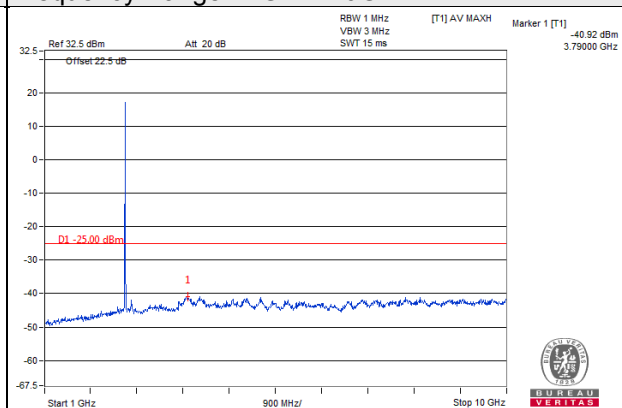
LTE Band 7 Channel Band width: 15MHz

Channel 21375

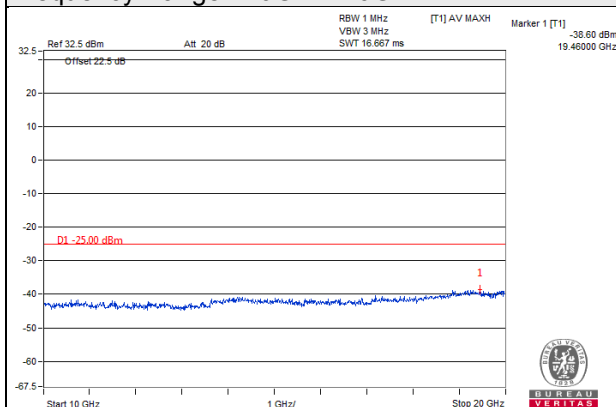
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

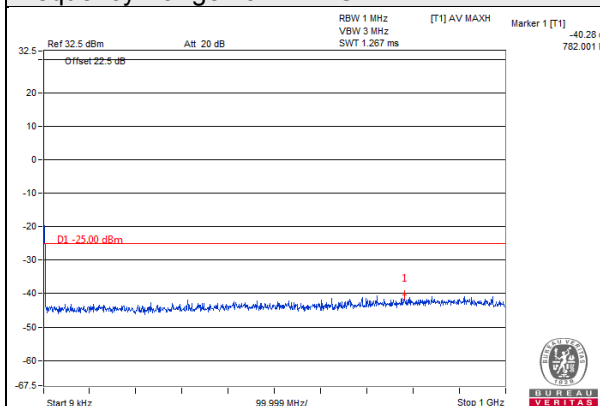


Note: The signal of 9kHz is IF signal from test instrument.

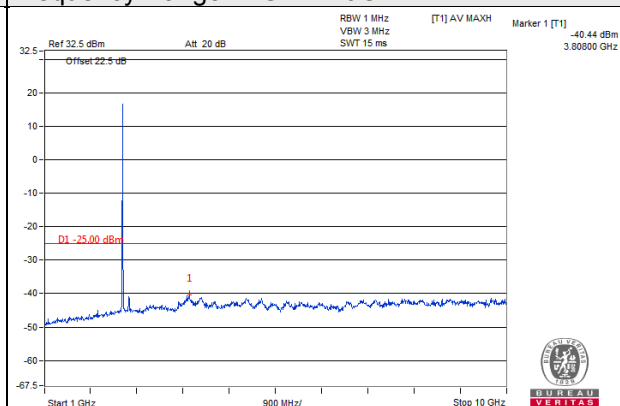
LTE Band 7 Channel Band width: 20MHz

Channel 20850

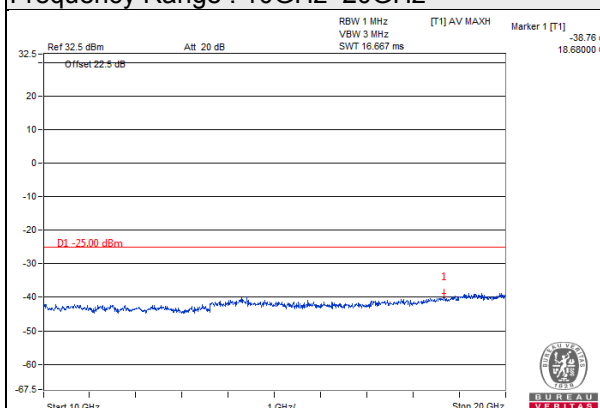
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

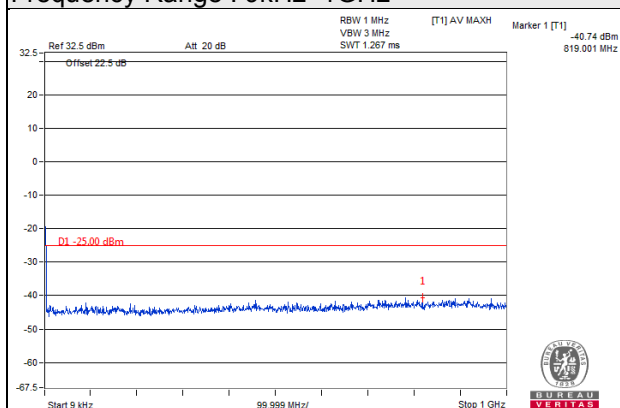


Note: The signal of 9kHz is IF signal from test instrument.

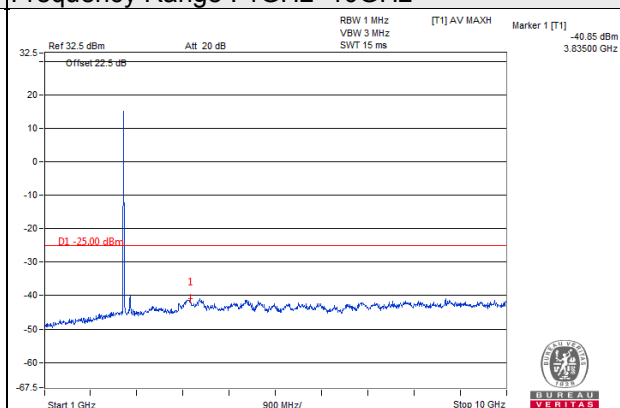
LTE Band 7 Channel Band width: 20MHz

Channel 21100

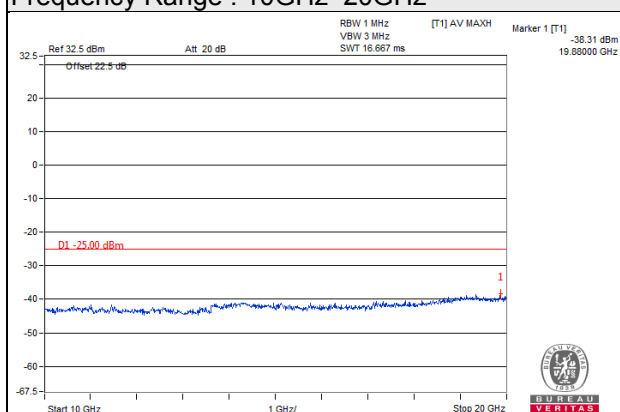
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

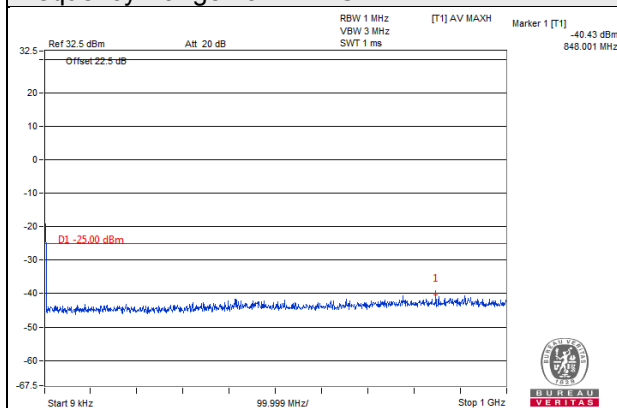


Note: The signal of 9kHz is IF signal from test instrument.

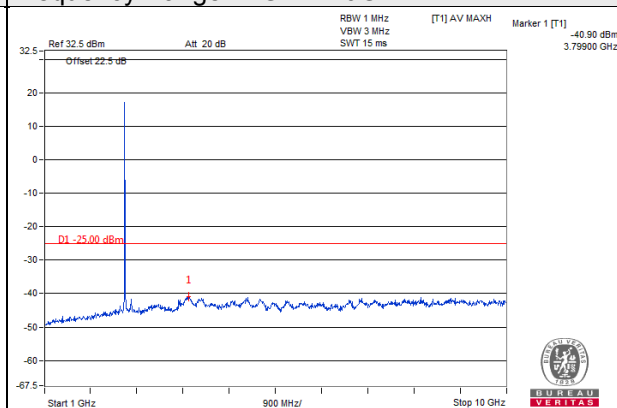
LTE Band 7 Channel Band width: 20MHz

Channel 21350

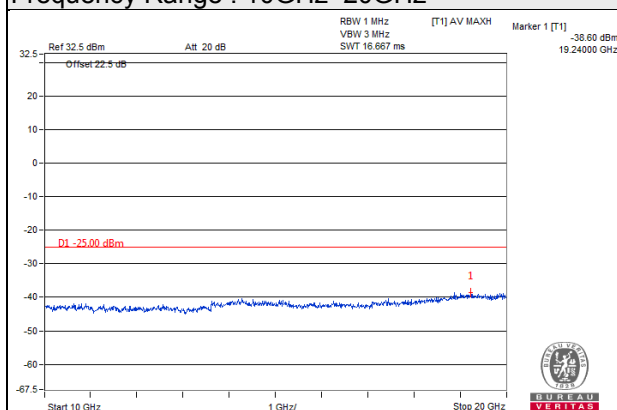
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



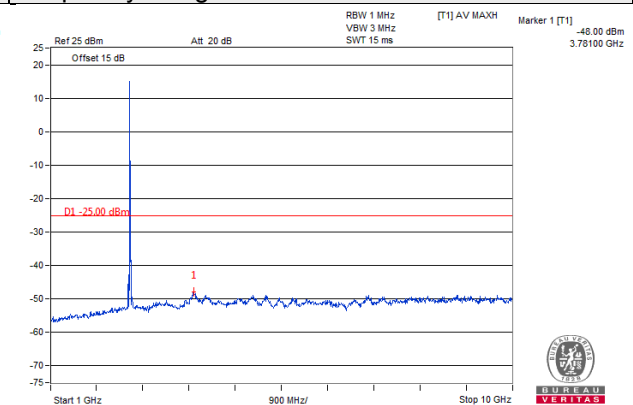
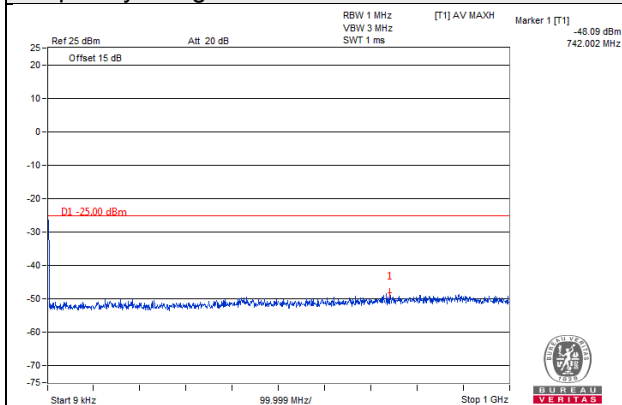
Note: The signal of 9kHz is IF signal from test instrument.

LTE CA_7C Channel Band width: 15+20MHz

Channel 21100+21271

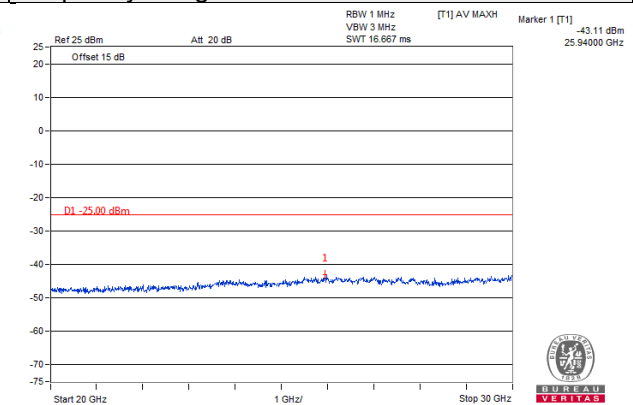
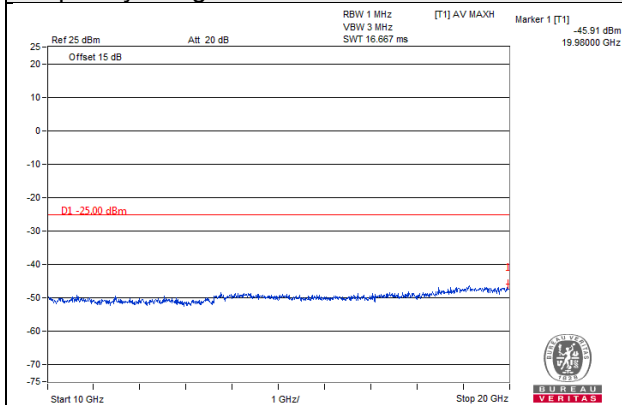
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 20GHz~30GHz

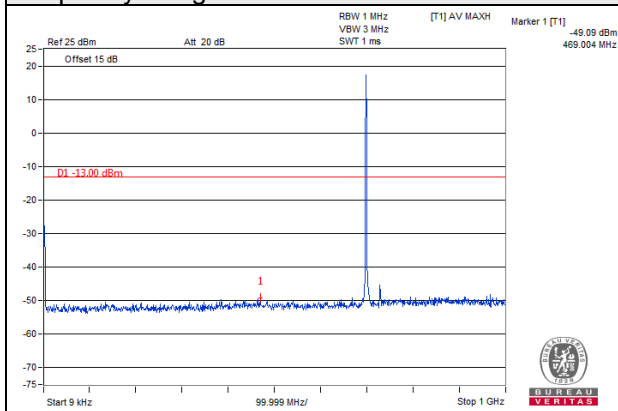


Note: The signal of 9kHz is IF signal from test instrument.

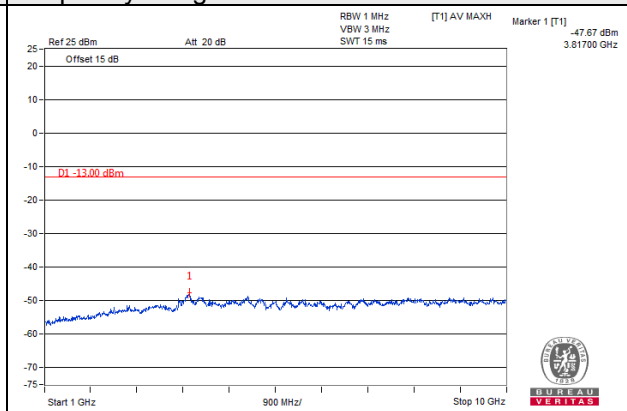
LTE Band 12 Channel Band width: 1.4MHz

Channel 23017

Frequency Range : 9kHz~1GHz

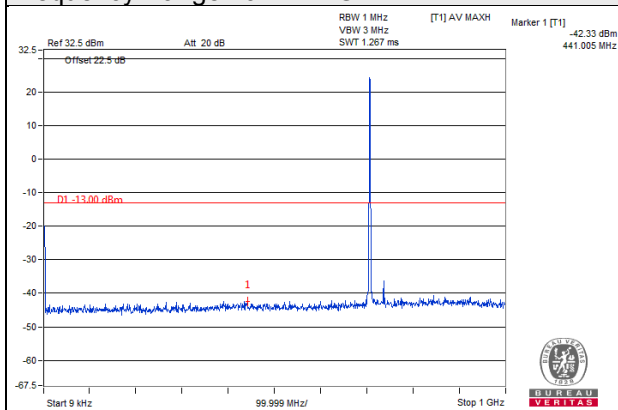


Frequency Range : 1GHz~10GHz

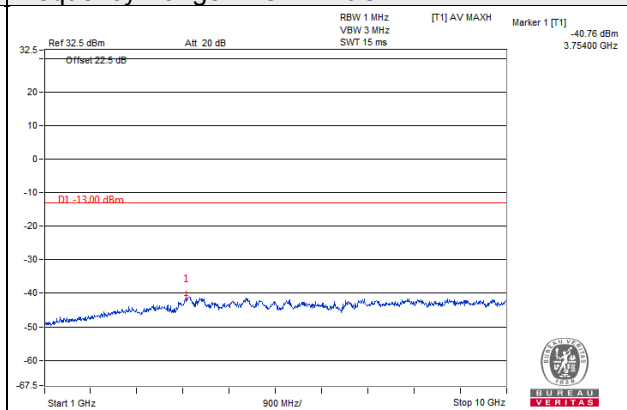


Channel 23095

Frequency Range : 9kHz~1GHz

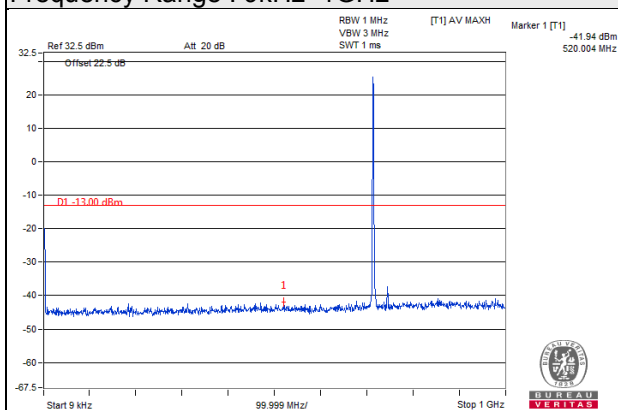


Frequency Range : 1GHz~10GHz

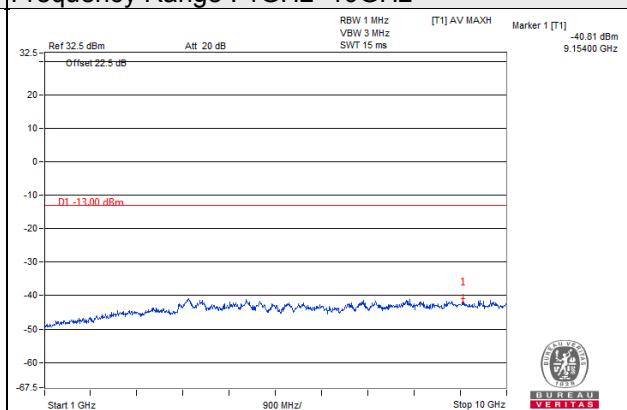


Channel 23173

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

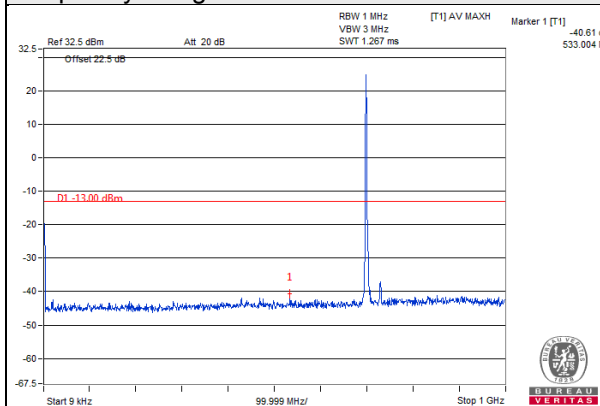


Note: The signal of 9kHz is IF signal from test instrument.

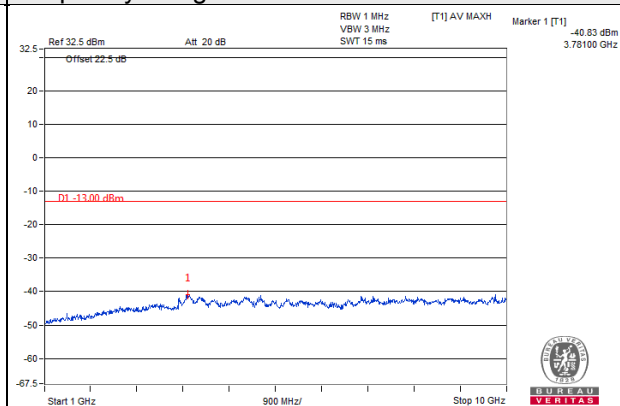
LTE Band 12 Channel Band width: 3MHz

Channel 23025

Frequency Range : 9kHz~1GHz

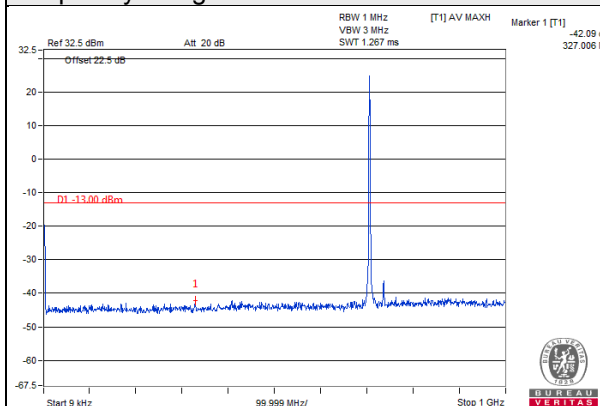


Frequency Range : 1GHz~10GHz

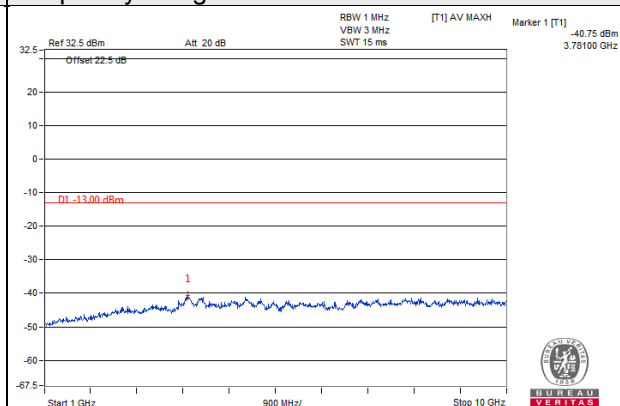


Channel 23095

Frequency Range : 9kHz~1GHz

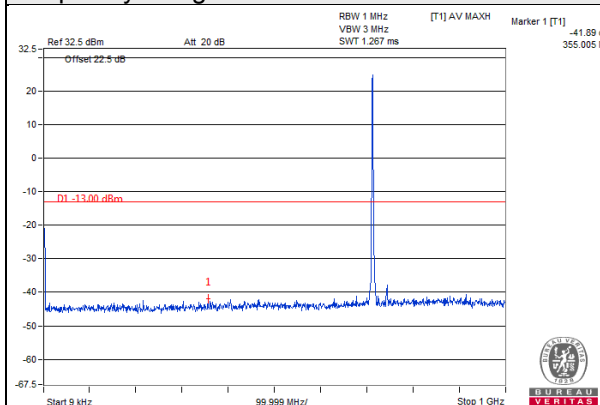


Frequency Range : 1GHz~10GHz

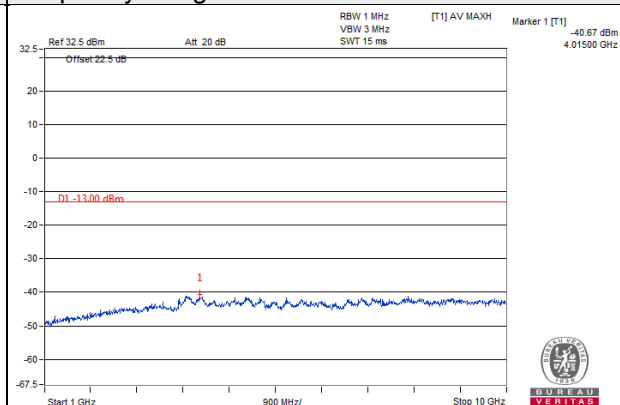


Channel 23165

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

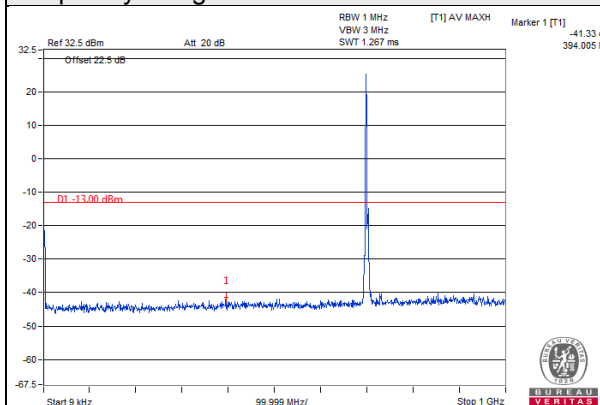


Note: The signal of 9kHz is IF signal from test instrument.

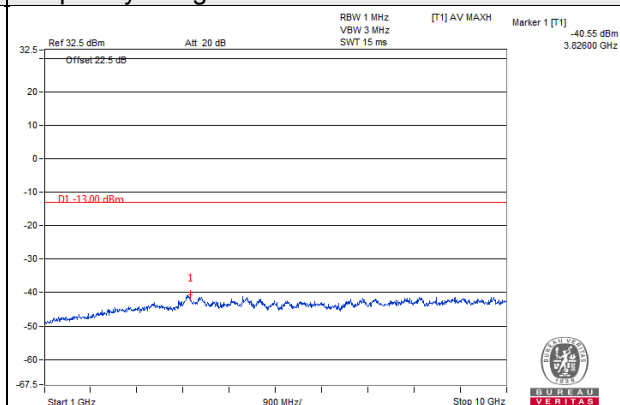
LTE Band 12 Channel Band width: 5MHz

Channel 23035

Frequency Range : 9kHz~1GHz

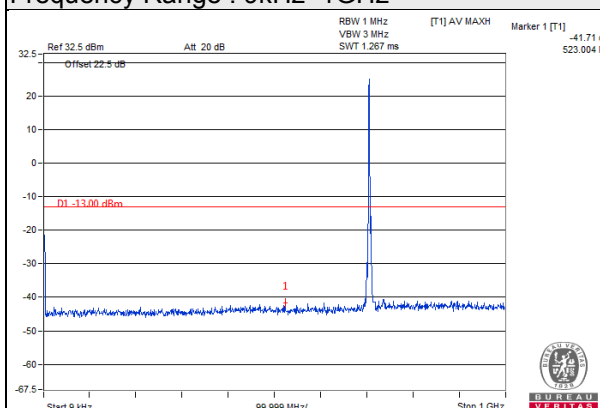


Frequency Range : 1GHz~10GHz

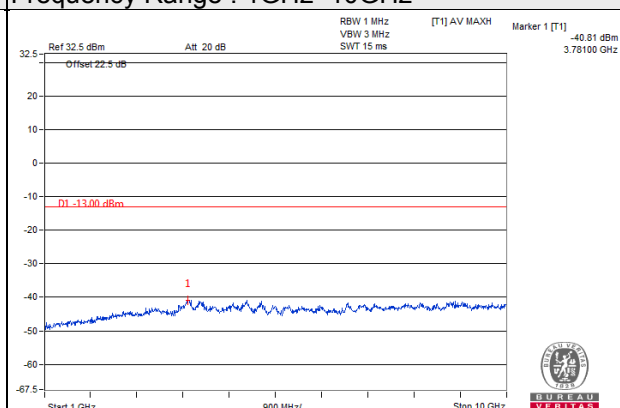


Channel 23095

Frequency Range : 9kHz~1GHz

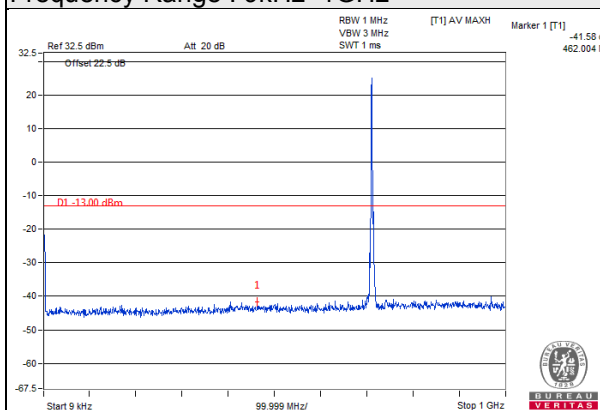


Frequency Range : 1GHz~10GHz

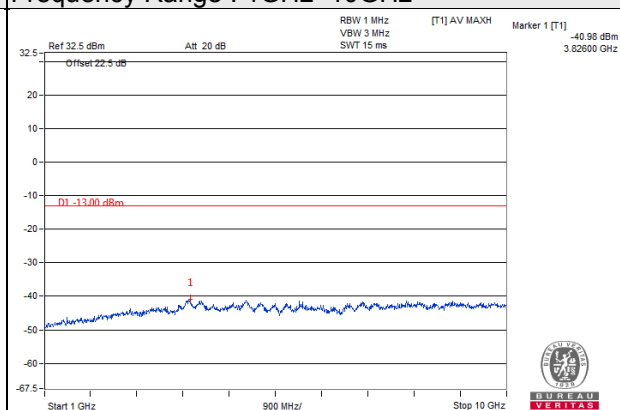


Channel 23155

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

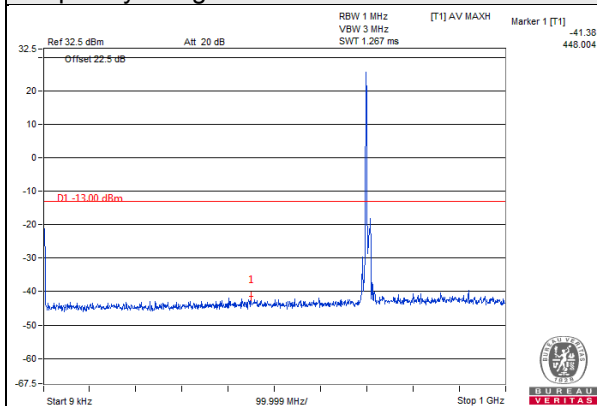


Note: The signal of 9kHz is IF signal from test instrument.

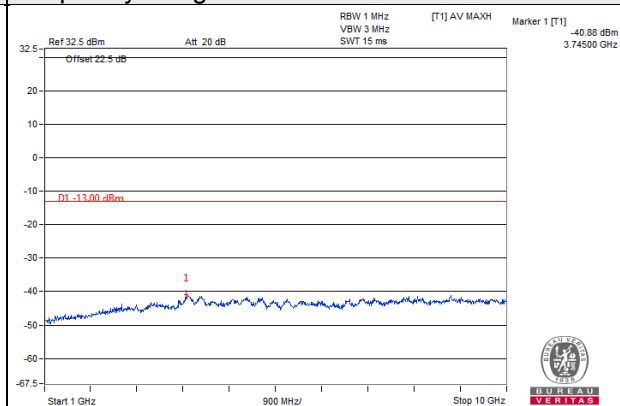
LTE Band 12 Channel Band width: 10MHz

Channel 23060

Frequency Range : 9kHz~1GHz

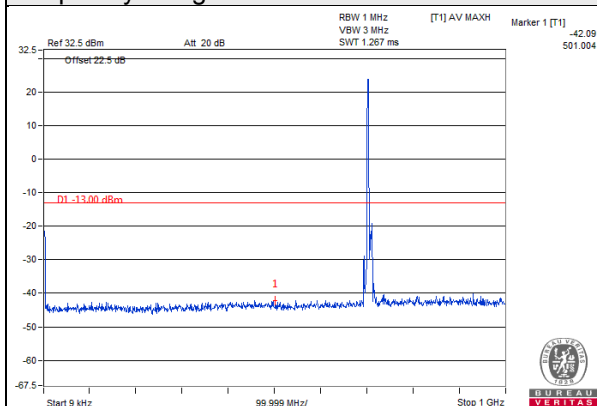


Frequency Range : 1GHz~10GHz

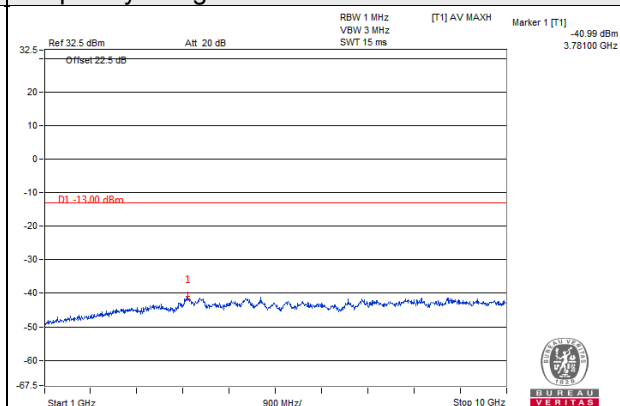


Channel 23095

Frequency Range : 9kHz~1GHz

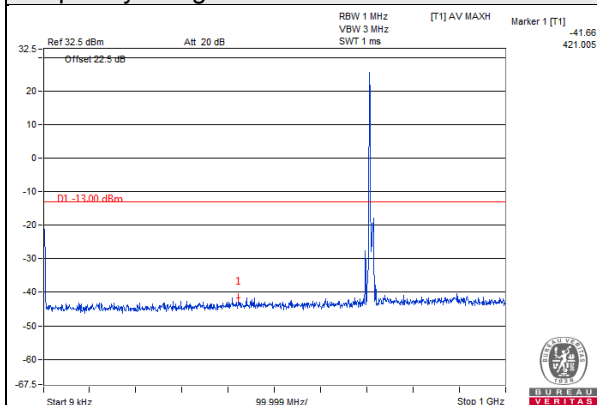


Frequency Range : 1GHz~10GHz

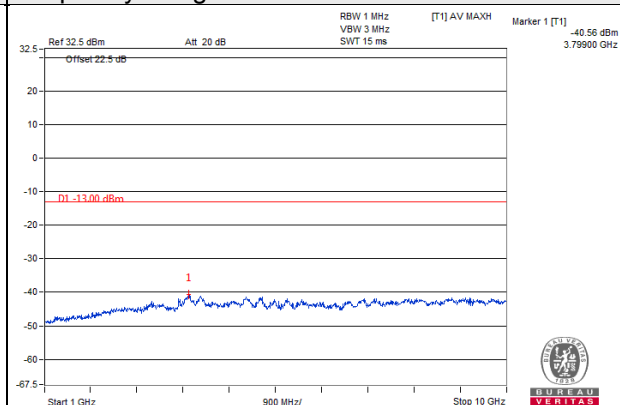


Channel 23130

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

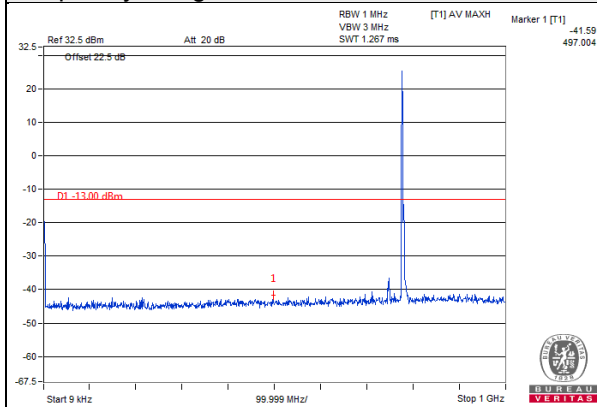


Note: The signal of 9kHz is IF signal from test instrument.

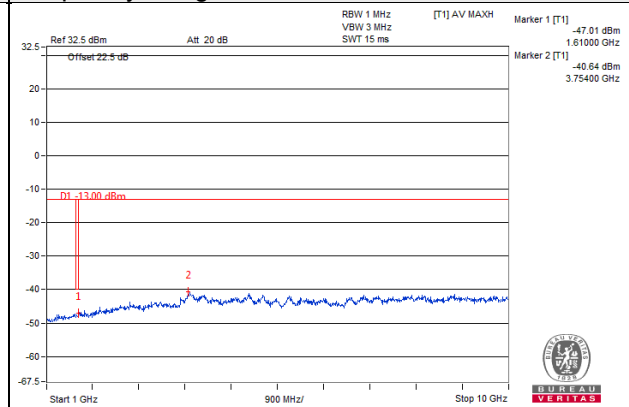
LTE Band 13 Channel Band width: 5MHz

Channel 23205

Frequency Range : 9kHz~1GHz

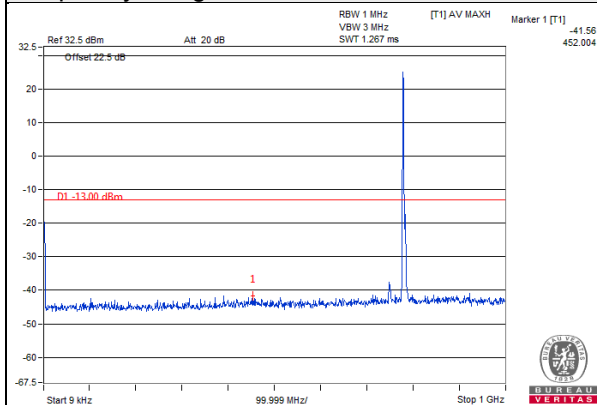


Frequency Range : 1GHz~10GHz

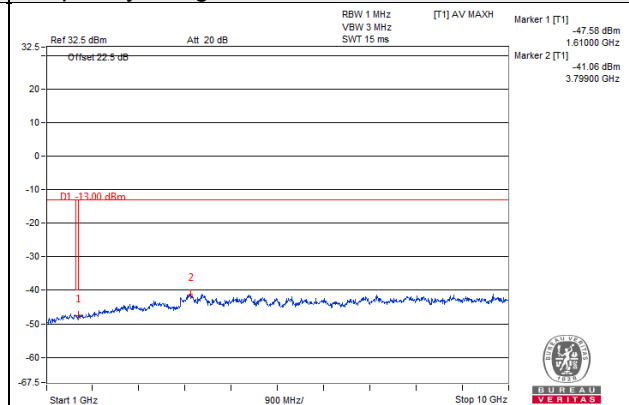


Channel 23230

Frequency Range : 9kHz~1GHz

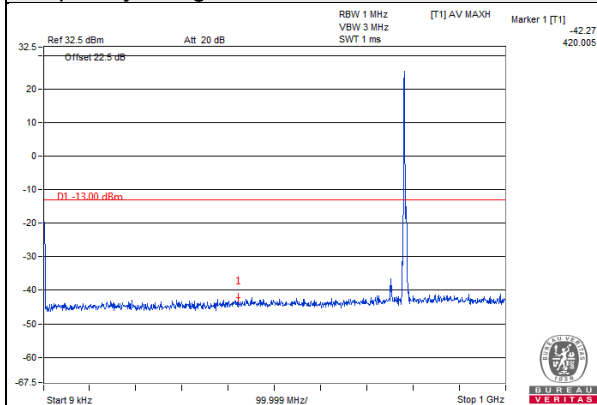


Frequency Range : 1GHz~10GHz

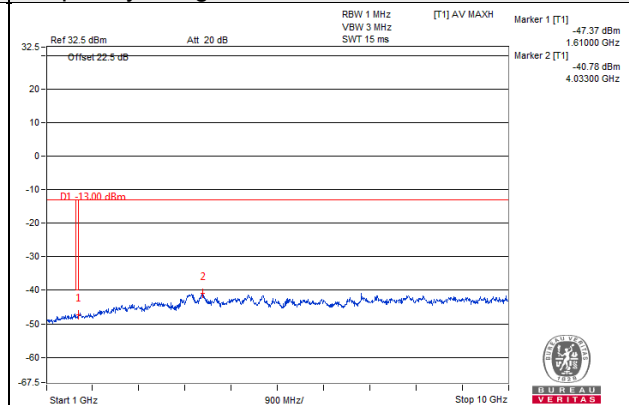


Channel 23255

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



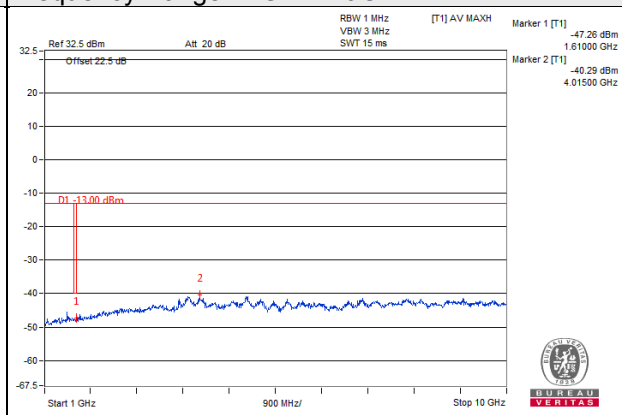
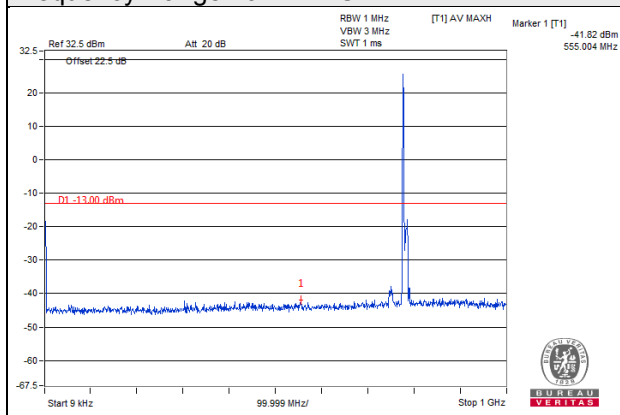
Note: The signal of 9kHz is IF signal from test instrument.

LTE Band 13 Channel Band width: 10MHz

Channel 23230

Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz

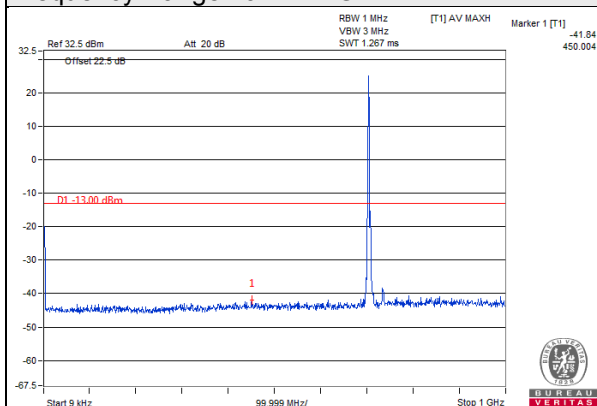


Note: The signal of 9kHz is IF signal from test instrument.

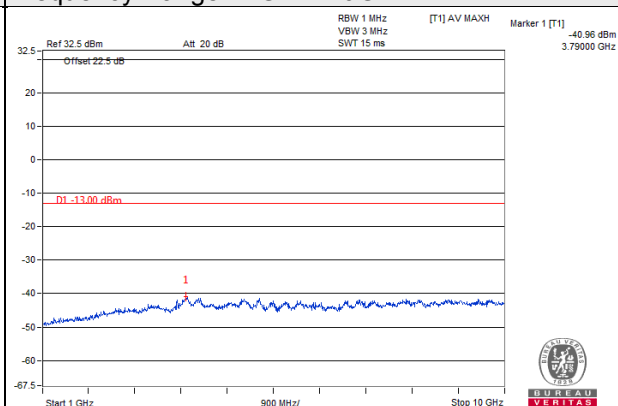
LTE Band 17 Channel Band width: 5MHz

Channel 23755

Frequency Range : 9kHz~1GHz

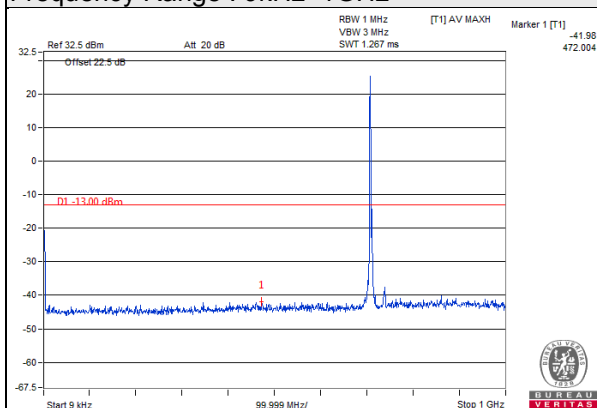


Frequency Range : 1GHz~10GHz

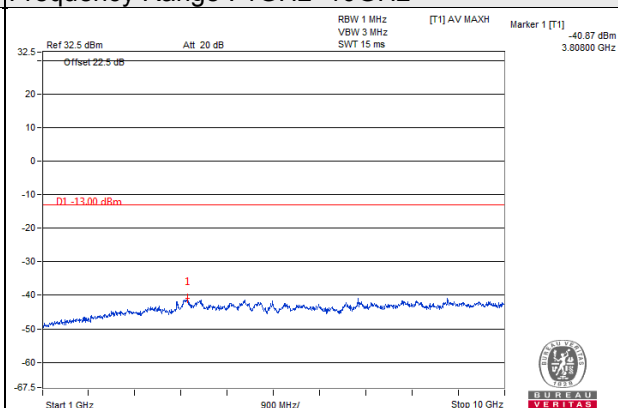


Channel 23790

Frequency Range : 9kHz~1GHz

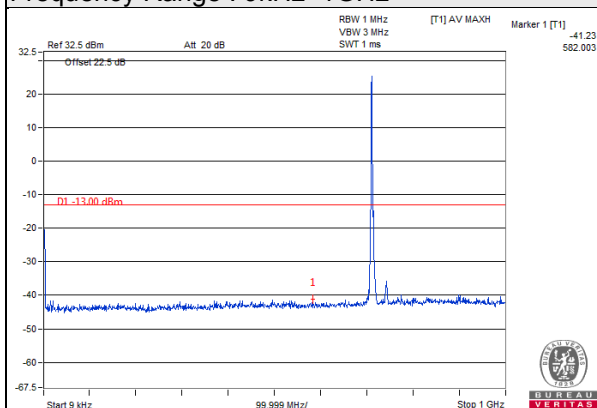


Frequency Range : 1GHz~10GHz

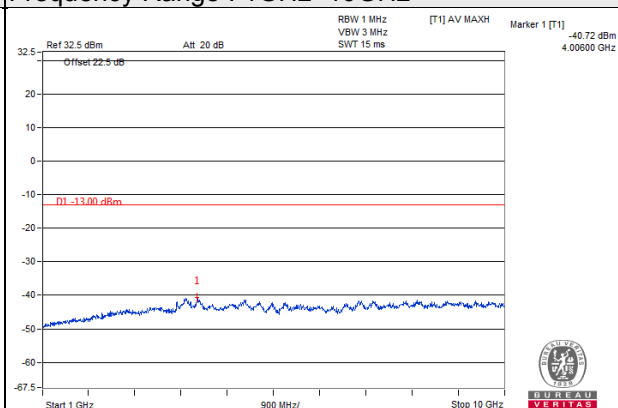


Channel 23825

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

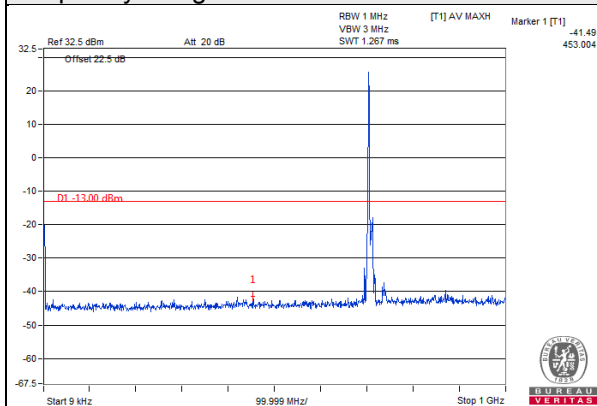


Note: The signal of 9kHz is IF signal from test instrument.

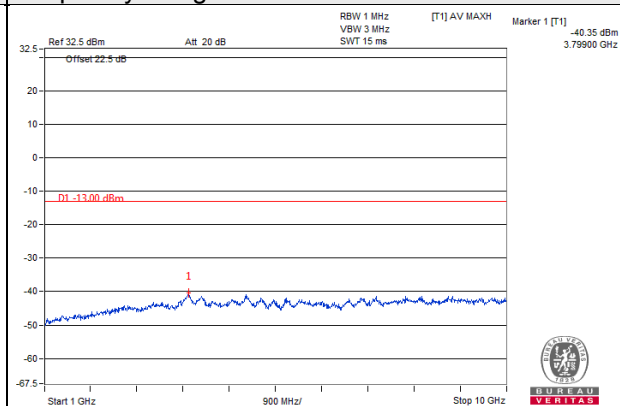
LTE Band 17 Channel Band width: 10MHz

Channel 23780

Frequency Range : 9kHz~1GHz

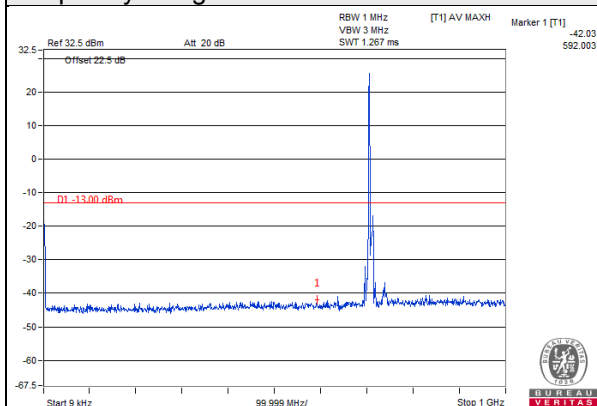


Frequency Range : 1GHz~10GHz

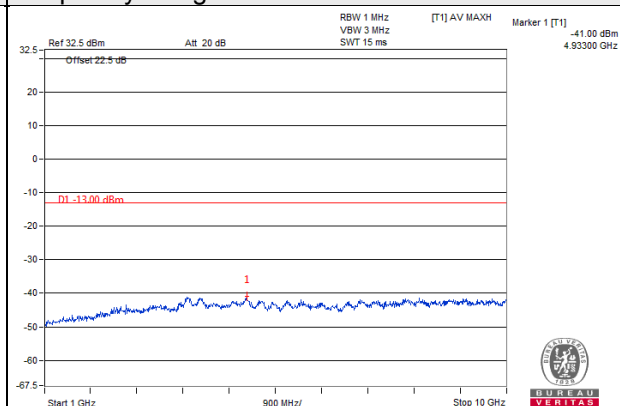


Channel 23790

Frequency Range : 9kHz~1GHz

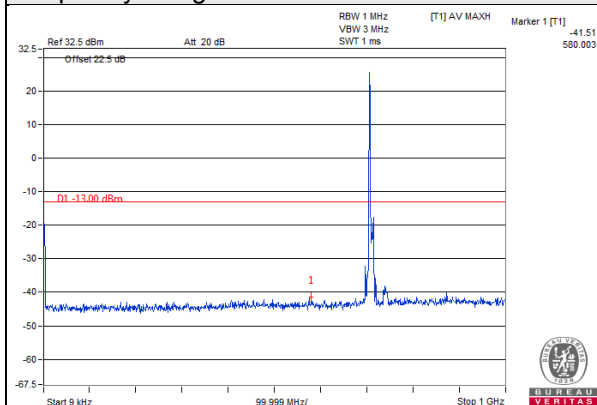


Frequency Range : 1GHz~10GHz

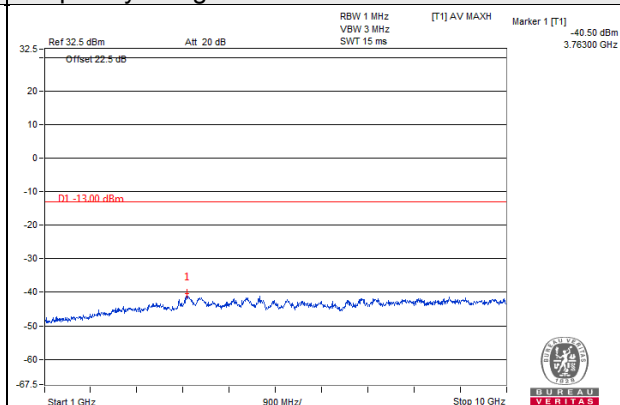


Channel 23800

Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz

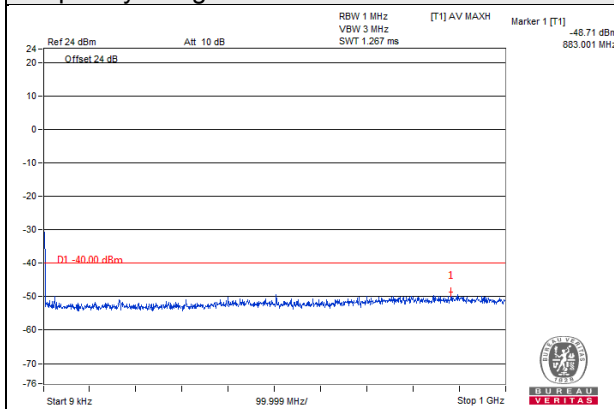


Note: The signal of 9kHz is IF signal from test instrument.

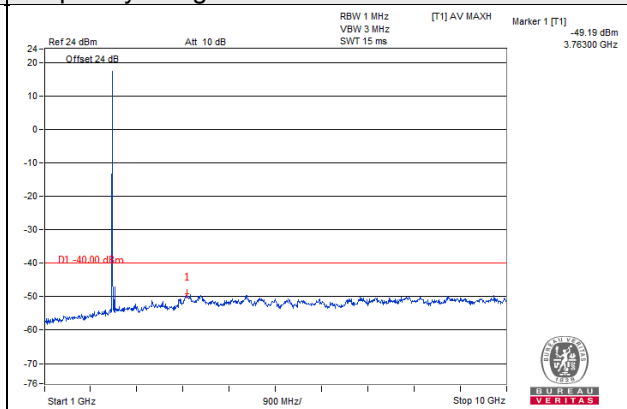
LTE Band 30 Channel Band width: 5MHz

Channel 27685

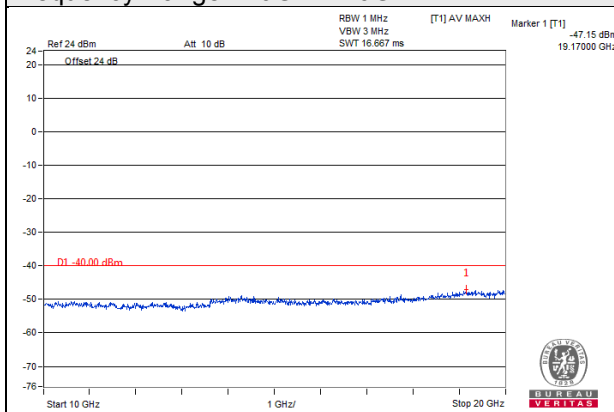
Frequency Range : 9kHz~1GHz



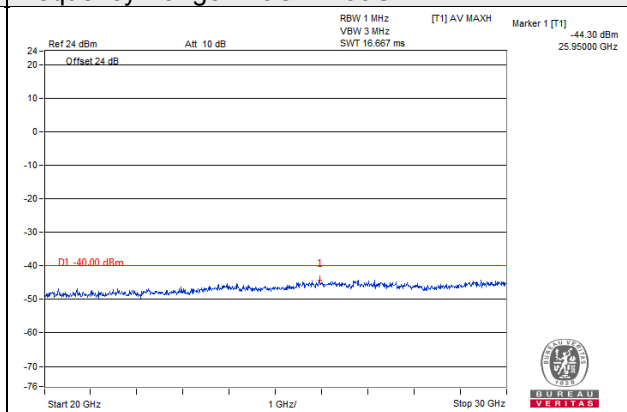
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

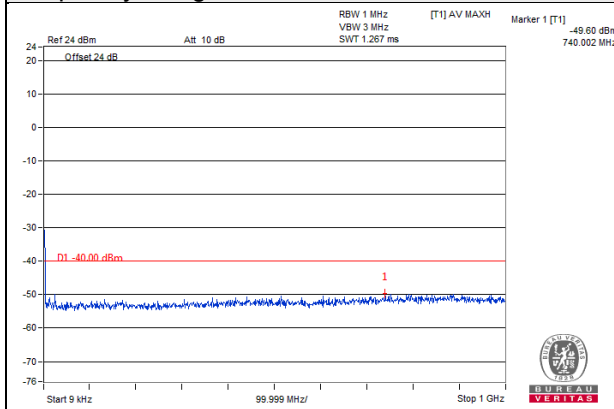


Note: The signal of 9kHz is IF signal from test instrument.

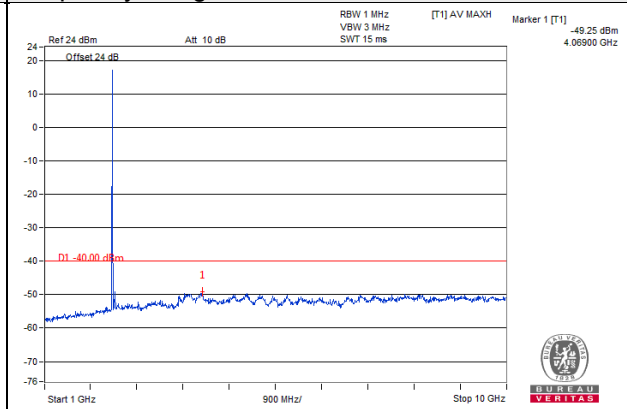
LTE Band 30 Channel Band width: 5MHz

Channel 27710

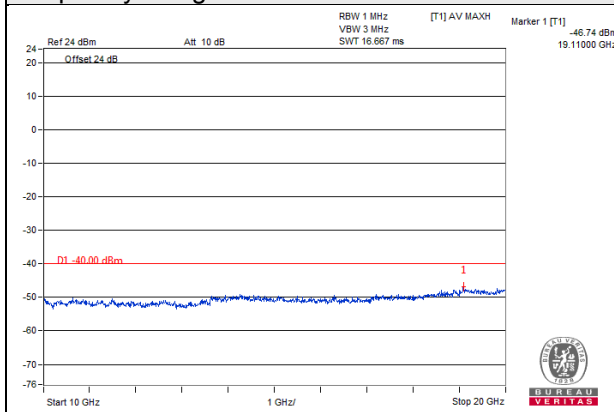
Frequency Range : 9kHz~1GHz



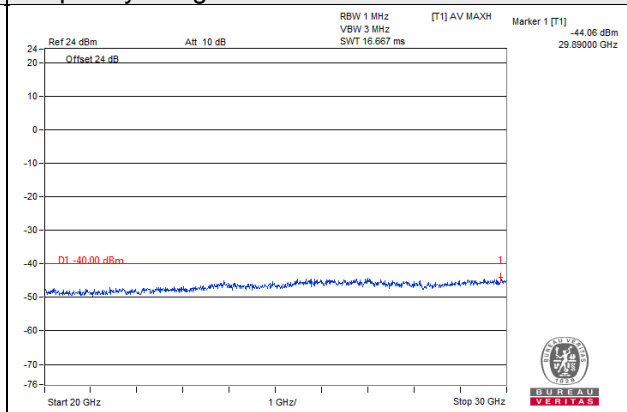
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

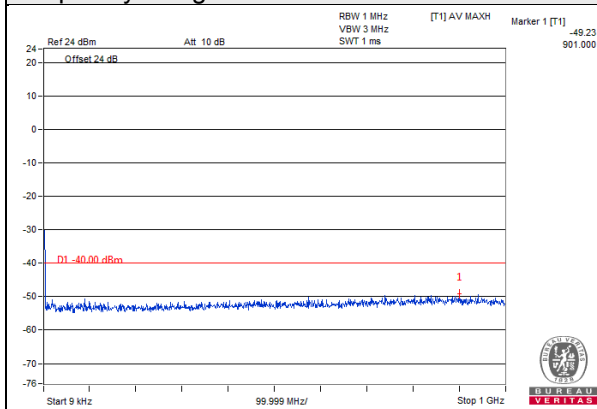


Note: The signal of 9kHz is IF signal from test instrument.

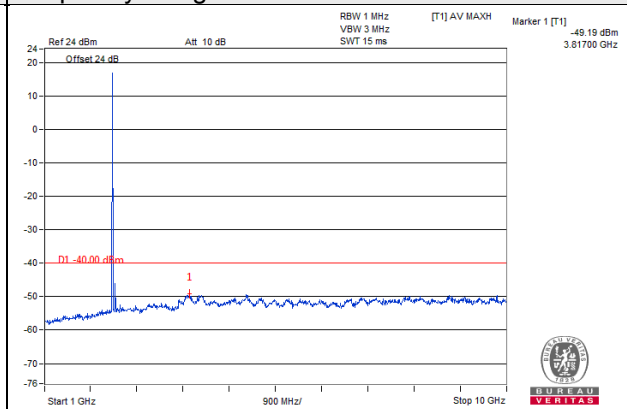
LTE Band 30 Channel Band width: 5MHz

Channel 27735

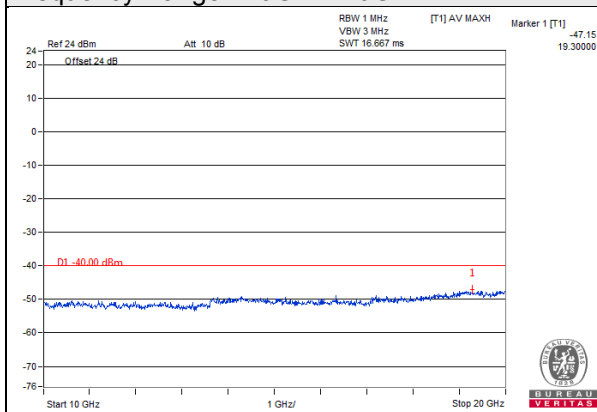
Frequency Range : 9kHz~1GHz



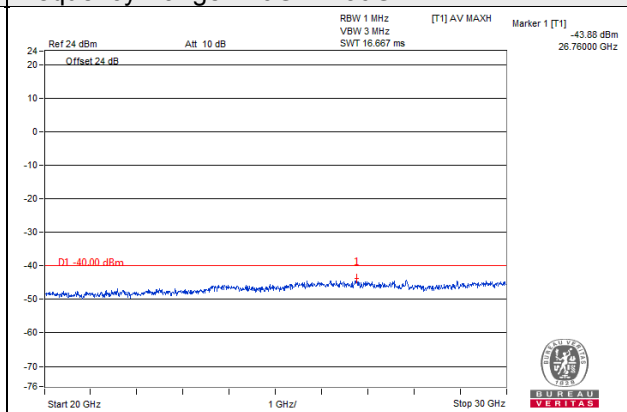
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

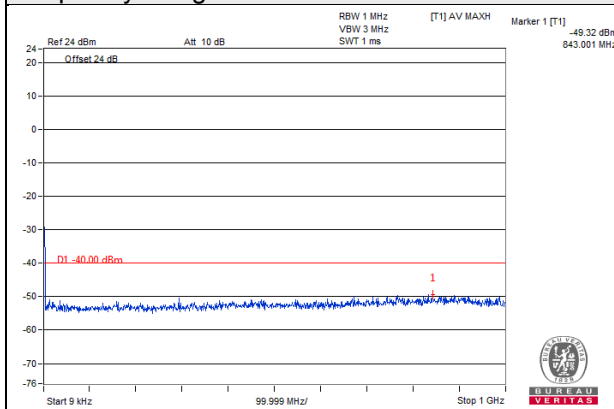


Note: The signal of 9kHz is IF signal from test instrument.

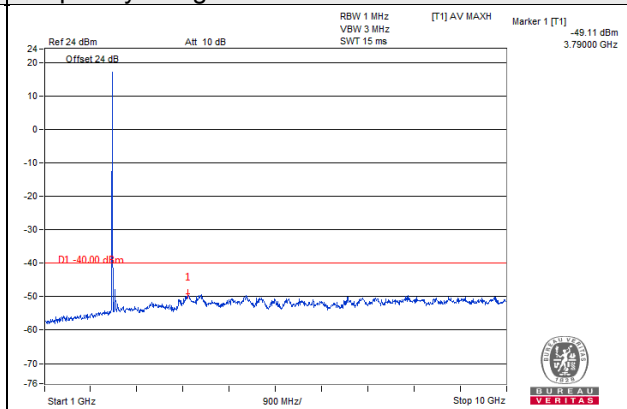
LTE Band 30 Channel Band width: 10MHz

Channel 27710

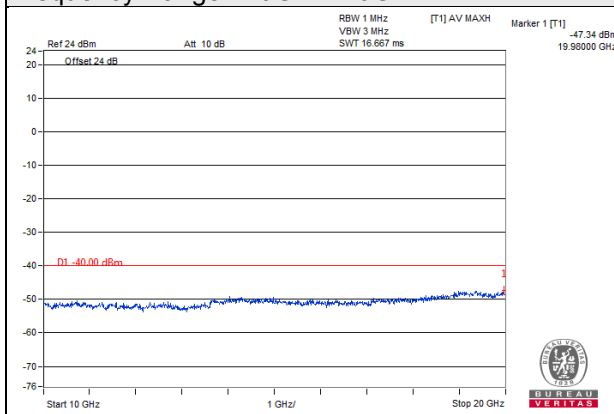
Frequency Range : 9kHz~1GHz



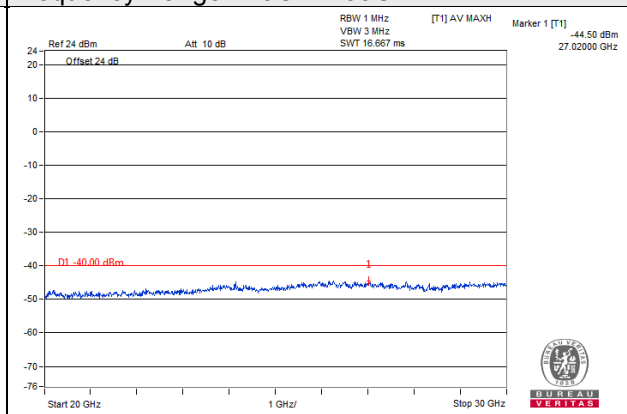
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

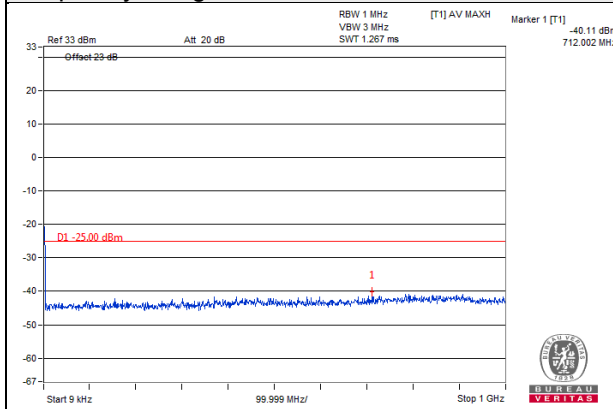


Note: The signal of 9kHz is IF signal from test instrument.

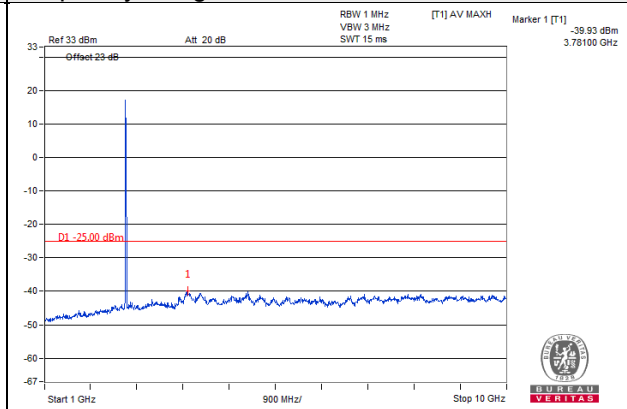
LTE Band 38 Channel Band width: 5MHz

Channel 37775

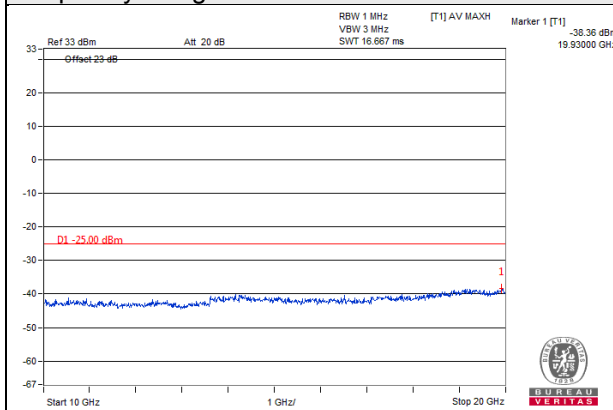
Frequency Range : 9kHz~1GHz



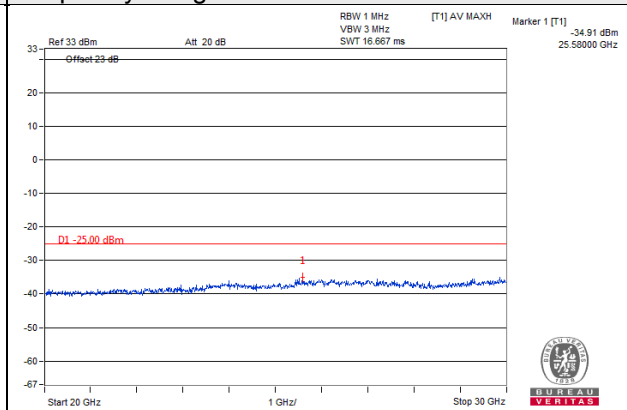
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

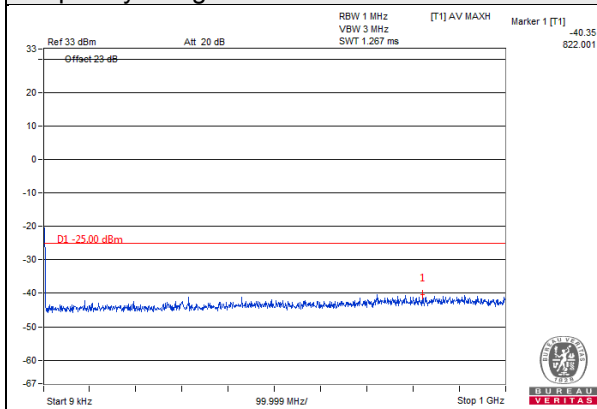


Note: The signal of 9kHz is IF signal from test instrument.

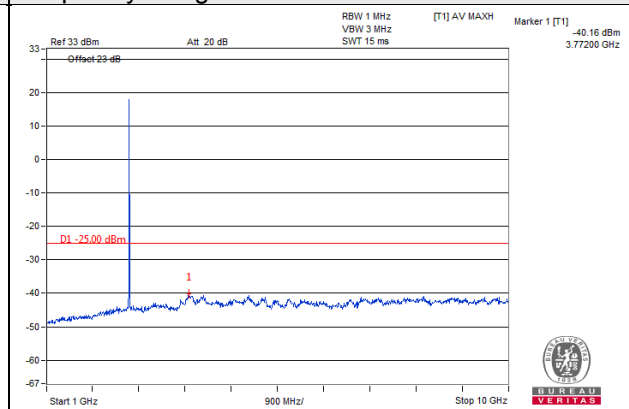
LTE Band 38 Channel Band width: 5MHz

Channel 38000

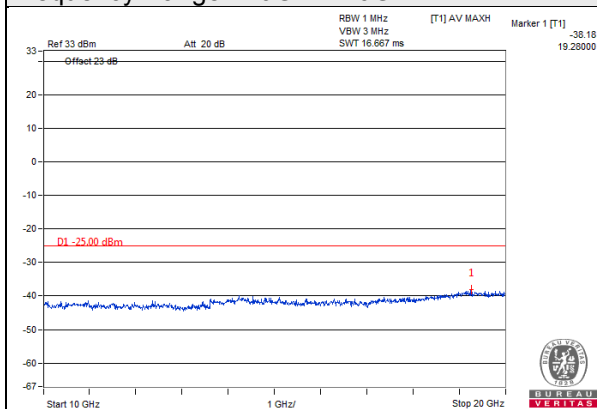
Frequency Range : 9kHz~1GHz



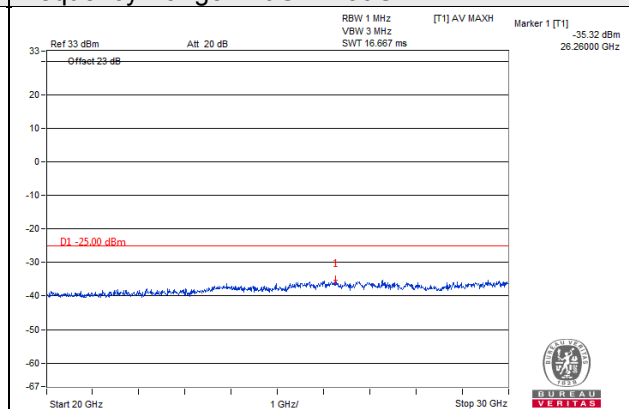
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

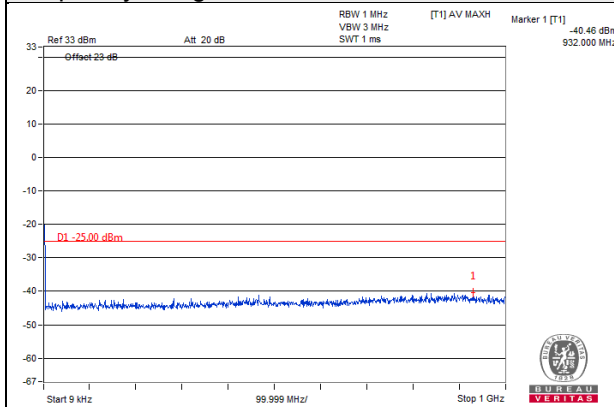


Note: The signal of 9kHz is IF signal from test instrument.

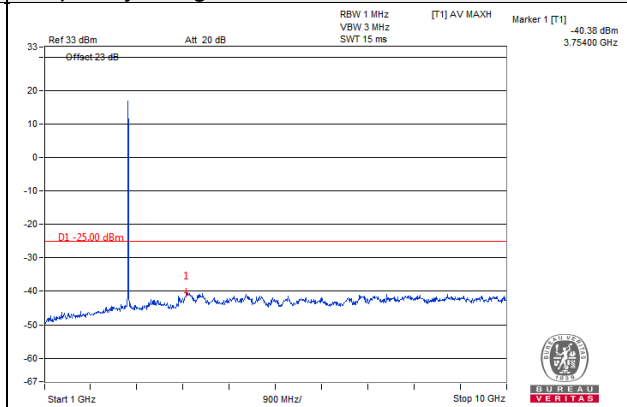
LTE Band 38 Channel Band width: 5MHz

Channel 38225

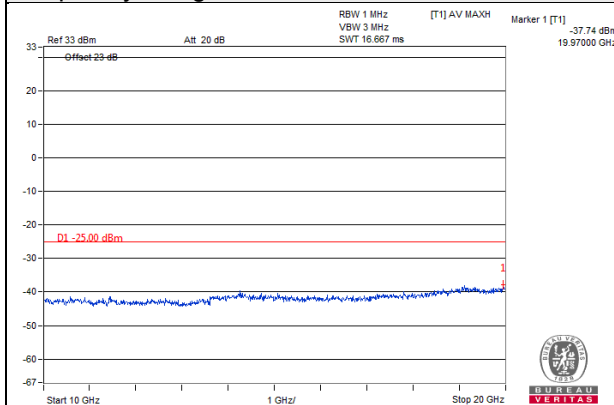
Frequency Range : 9kHz~1GHz



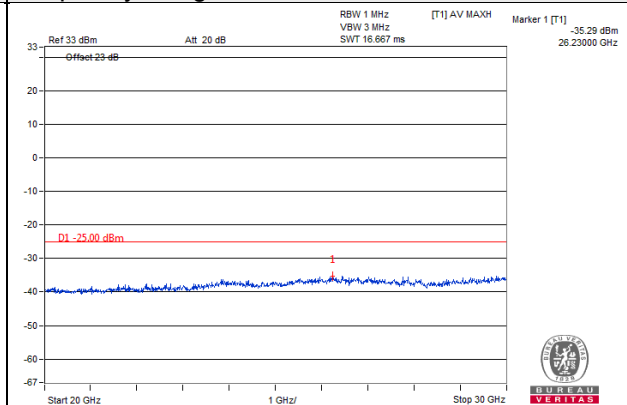
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

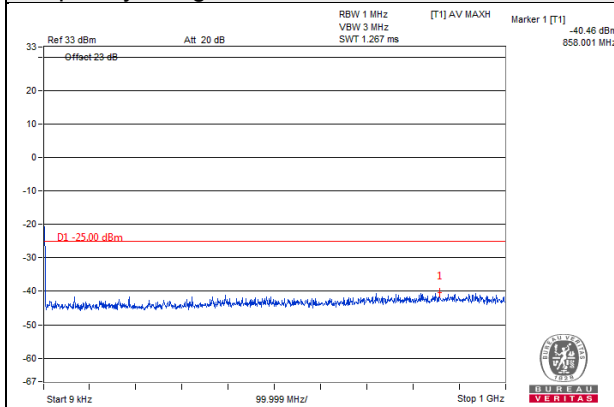


Note: The signal of 9kHz is IF signal from test instrument.

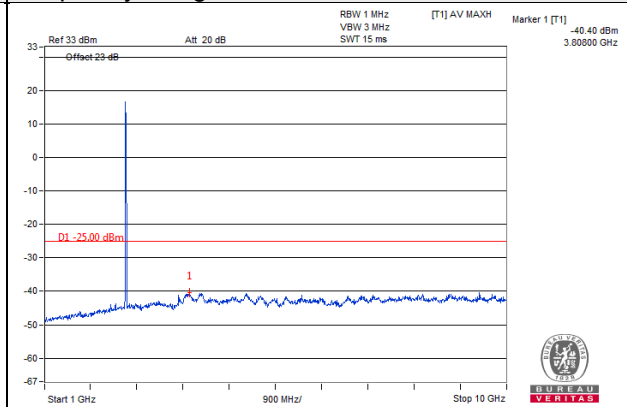
LTE Band 38 Channel Band width: 10MHz

Channel 37800

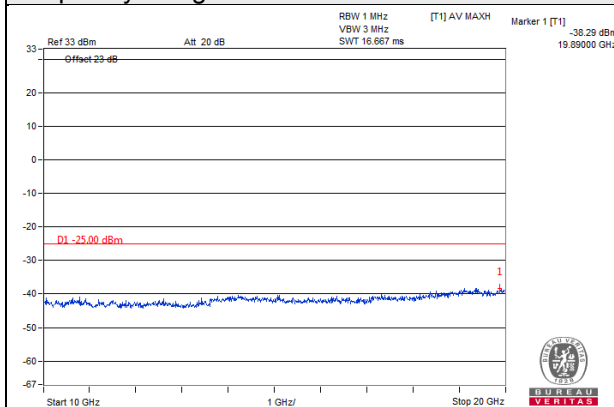
Frequency Range : 9kHz~1GHz



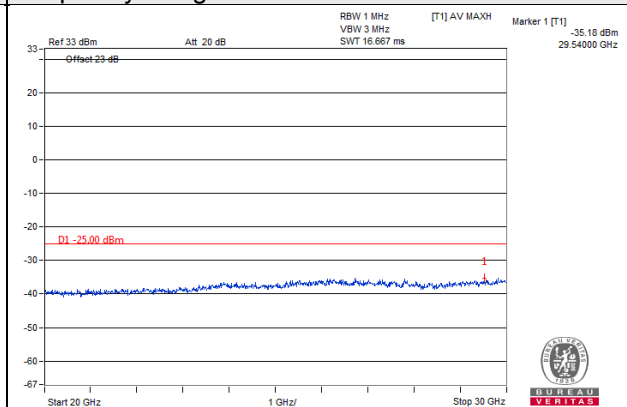
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

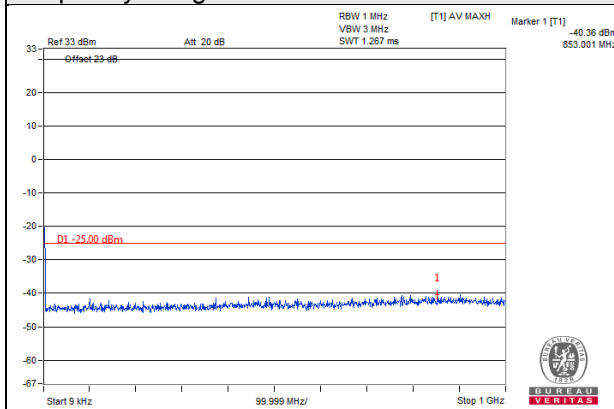


Note: The signal of 9kHz is IF signal from test instrument.

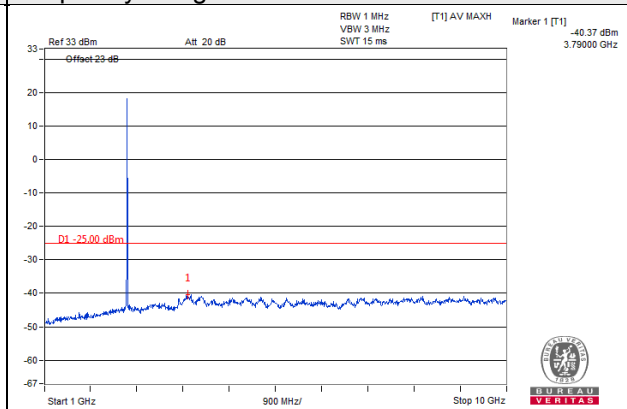
LTE Band 38 Channel Band width: 10MHz

Channel 38000

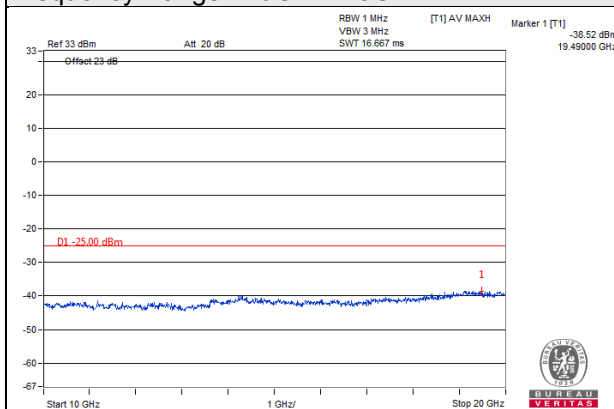
Frequency Range : 9kHz~1GHz



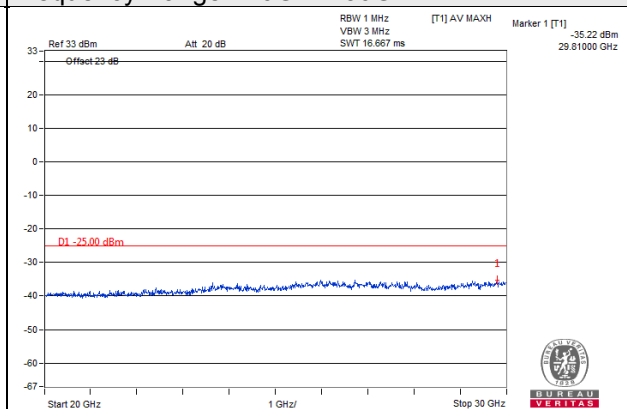
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

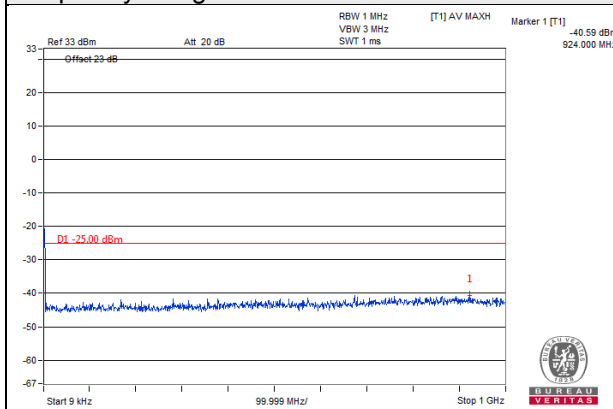


Note: The signal of 9kHz is IF signal from test instrument.

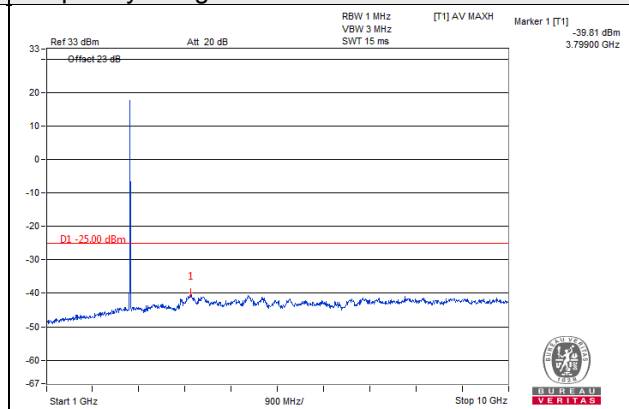
LTE Band 38 Channel Band width: 10MHz

Channel 38200

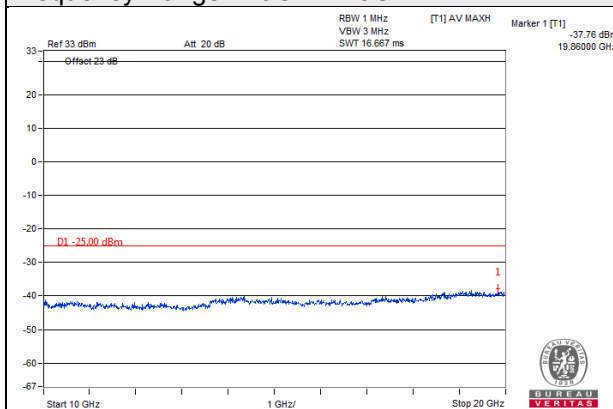
Frequency Range : 9kHz~1GHz



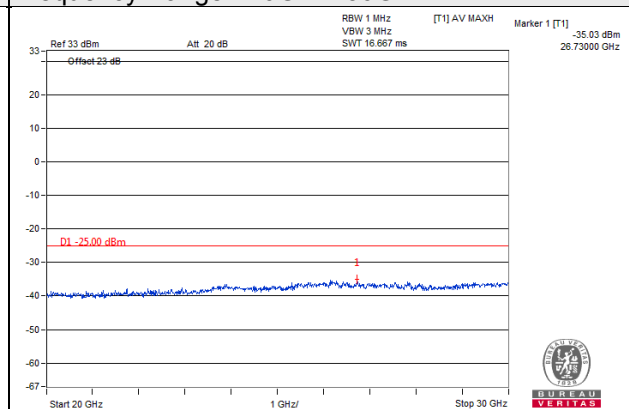
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

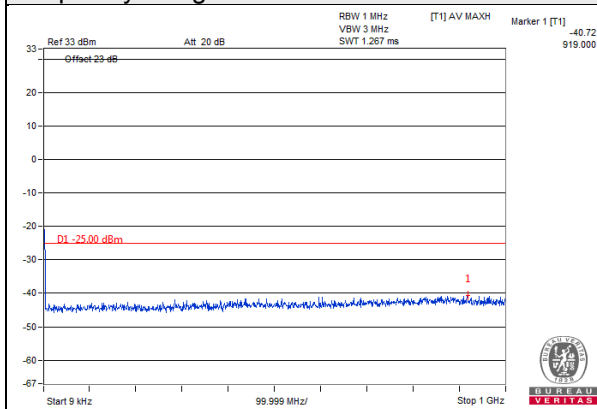


Note: The signal of 9kHz is IF signal from test instrument.

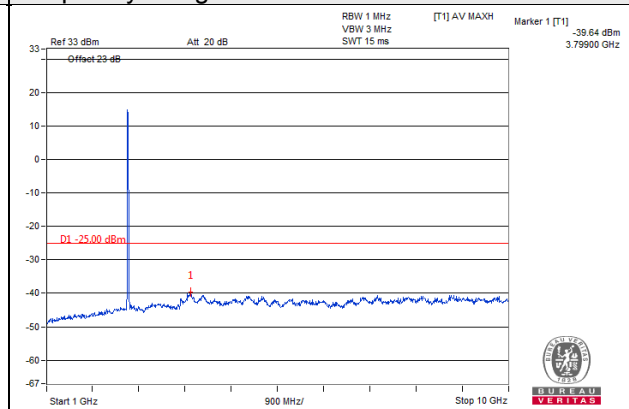
LTE Band 38 Channel Band width: 15MHz

Channel 37825

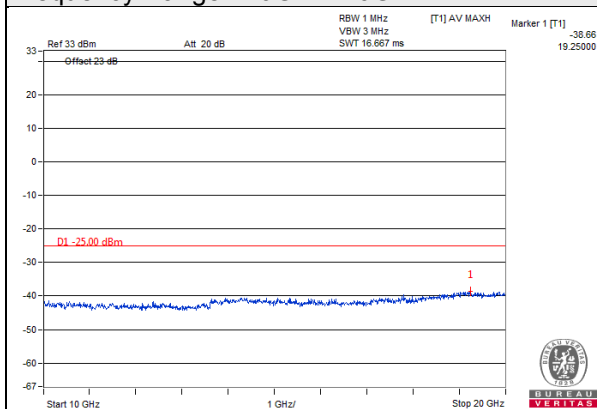
Frequency Range : 9kHz~1GHz



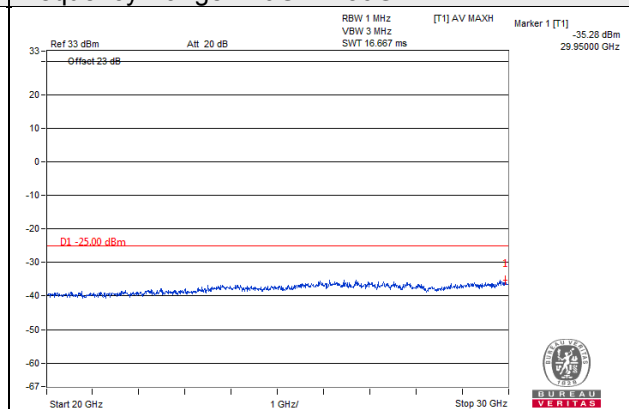
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

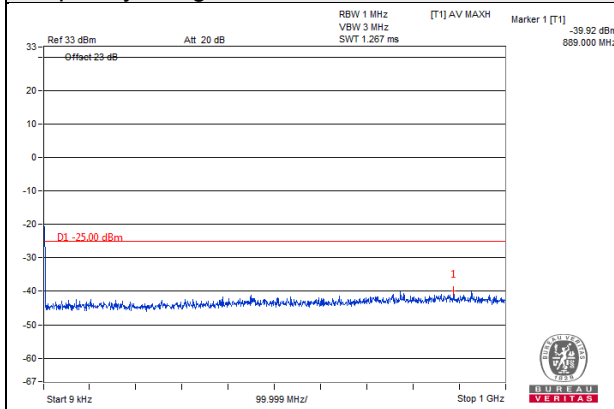


Note: The signal of 9kHz is IF signal from test instrument.

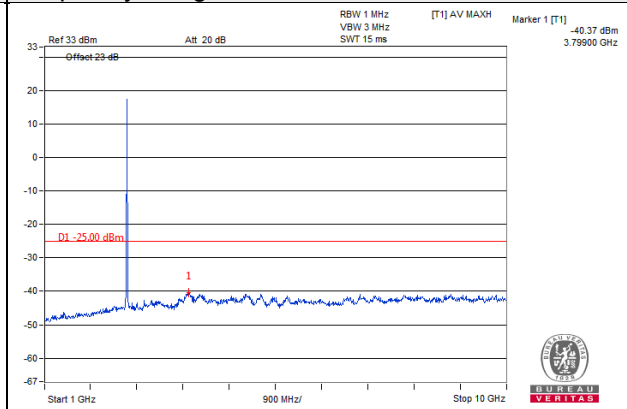
LTE Band 38 Channel Band width: 15MHz

Channel 38000

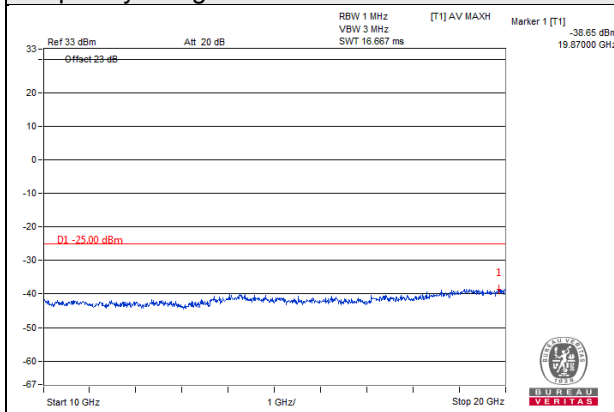
Frequency Range : 9kHz~1GHz



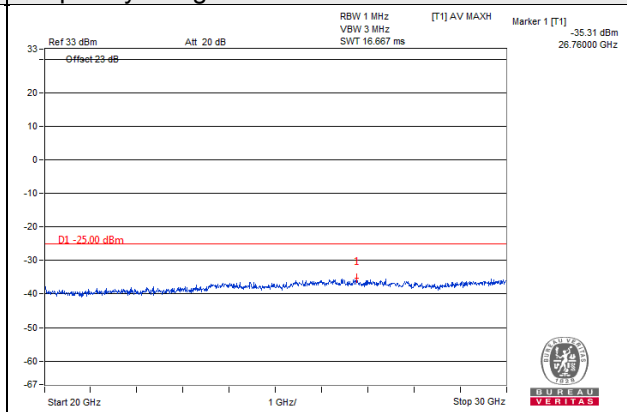
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

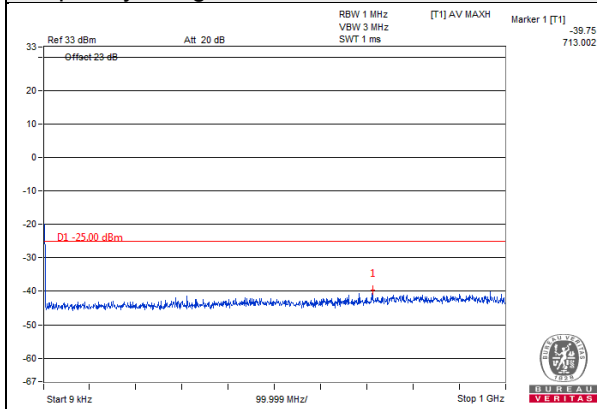


Note: The signal of 9kHz is IF signal from test instrument.

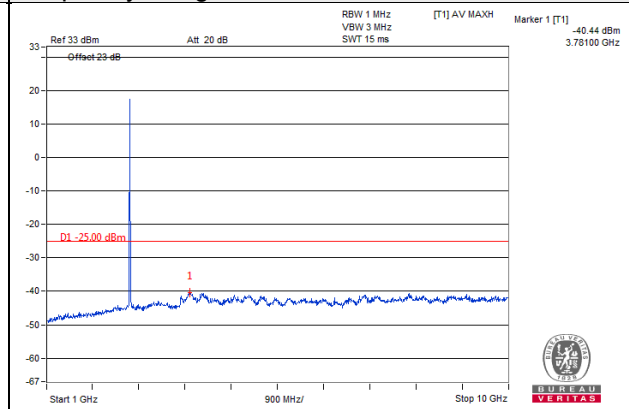
LTE Band 38 Channel Band width: 15MHz

Channel 38175

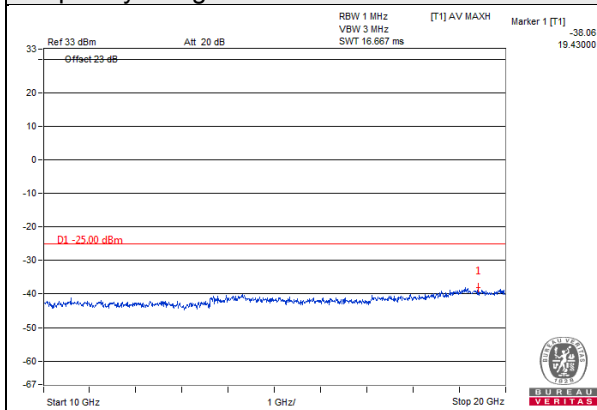
Frequency Range : 9kHz~1GHz



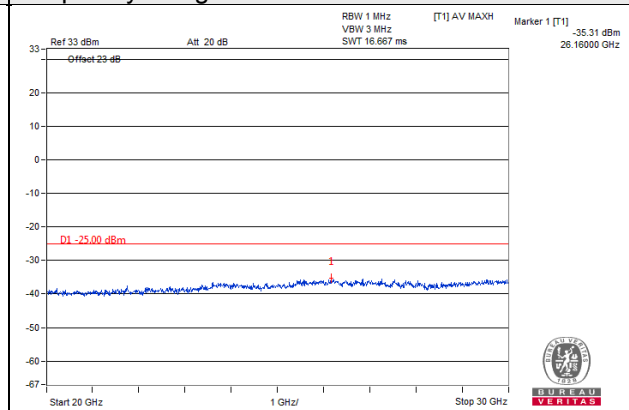
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

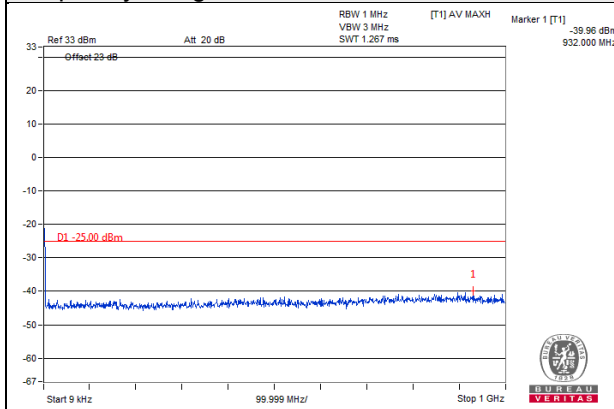


Note: The signal of 9kHz is IF signal from test instrument.

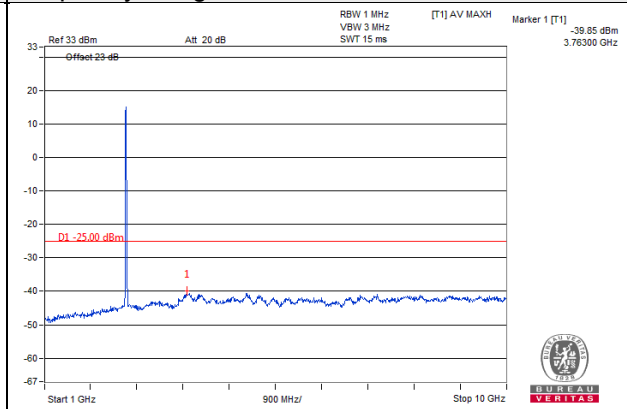
LTE Band 38 Channel Band width: 20MHz

Channel 37850

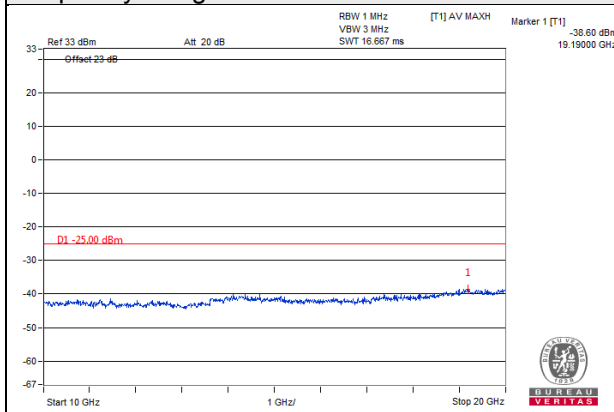
Frequency Range : 9kHz~1GHz



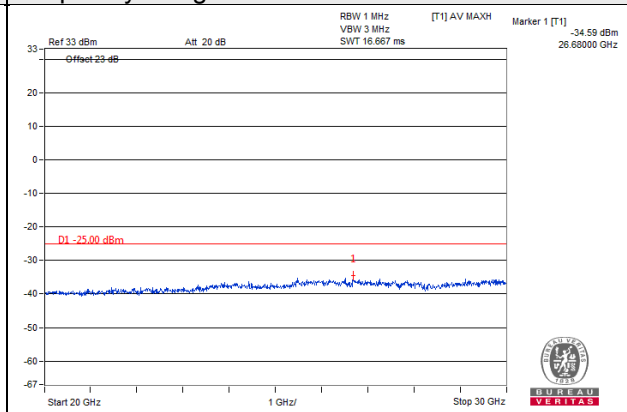
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

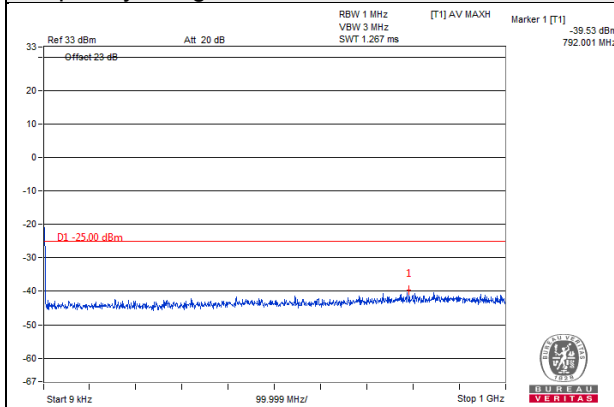


Note: The signal of 9kHz is IF signal from test instrument.

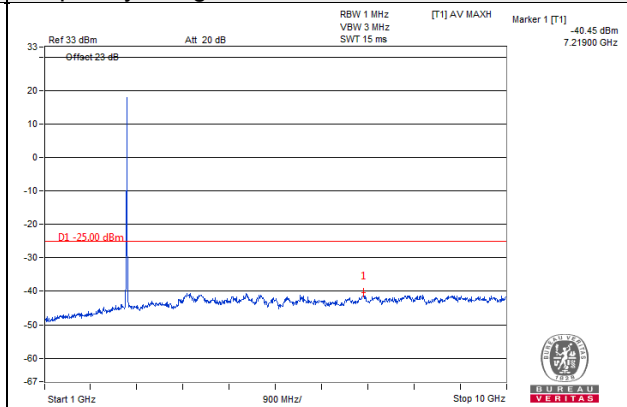
LTE Band 38 Channel Band width: 20MHz

Channel 38000

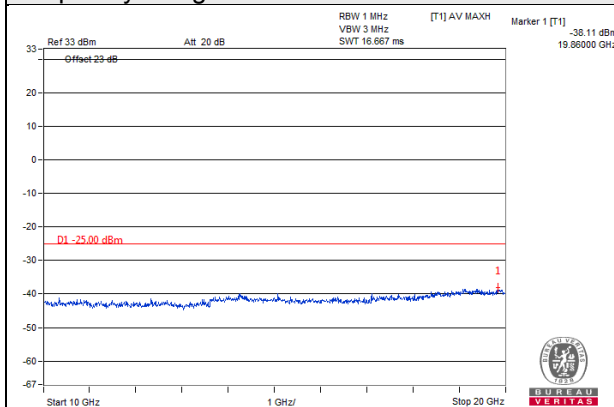
Frequency Range : 9kHz~1GHz



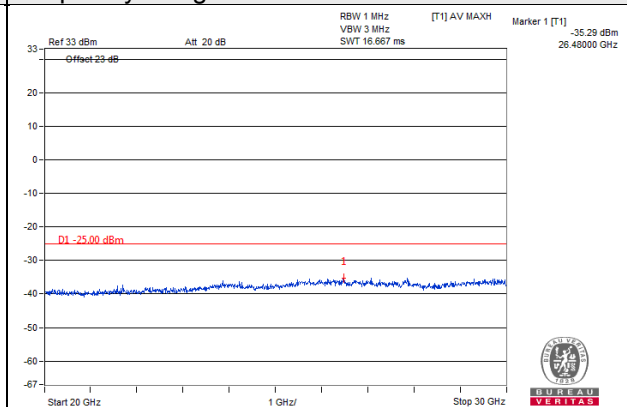
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

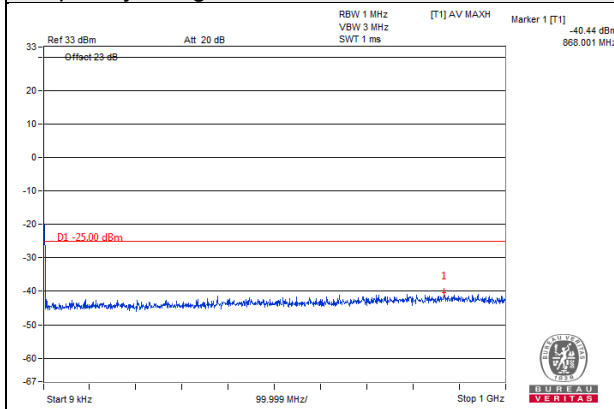


Note: The signal of 9kHz is IF signal from test instrument.

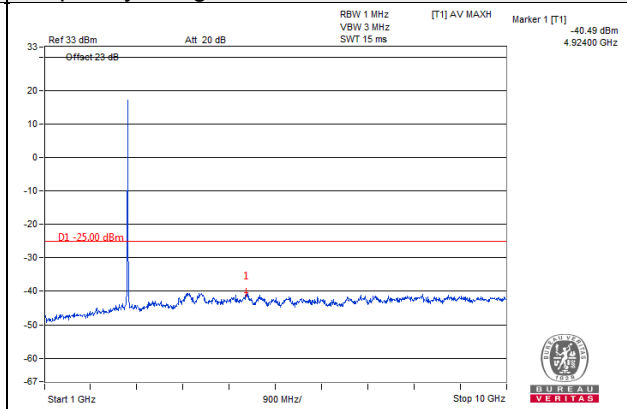
LTE Band 38 Channel Band width: 20MHz

Channel 38150

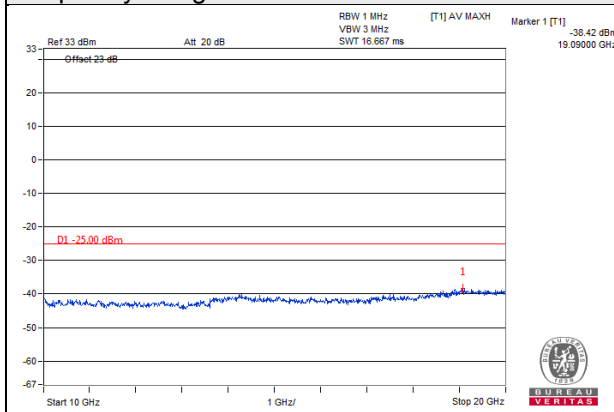
Frequency Range : 9kHz~1GHz



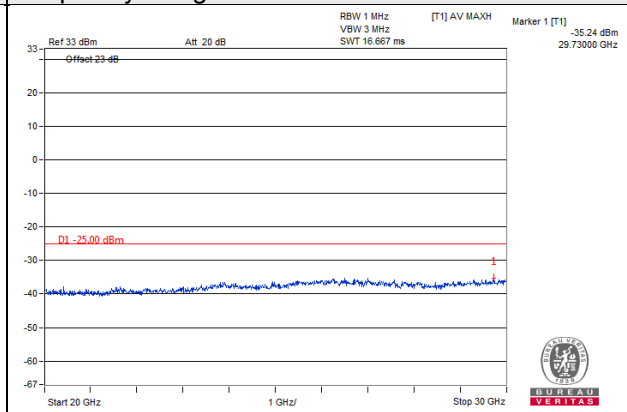
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz



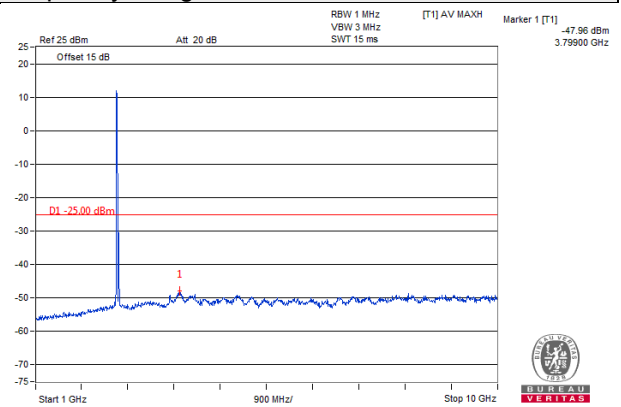
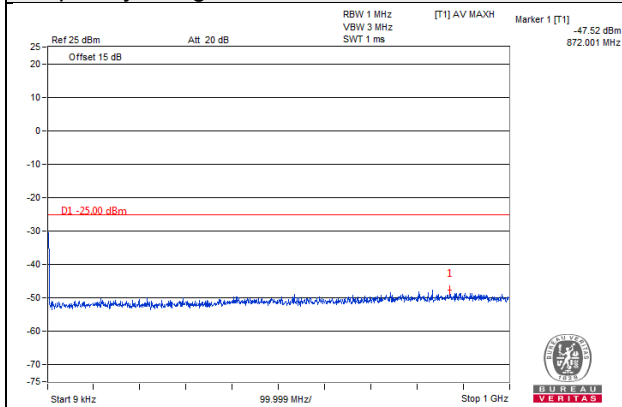
Note: The signal of 9kHz is IF signal from test instrument.

LTE CA_38C Channel Band width: 15+15MHz

Channel 38000+38150

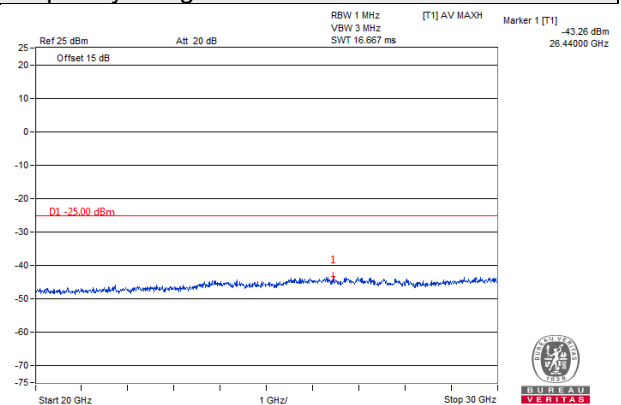
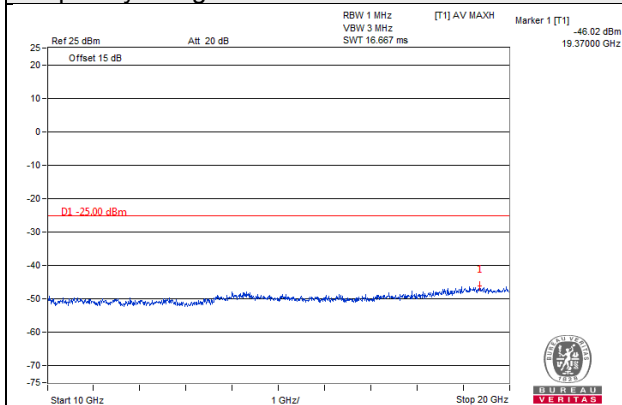
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 20GHz~30GHz

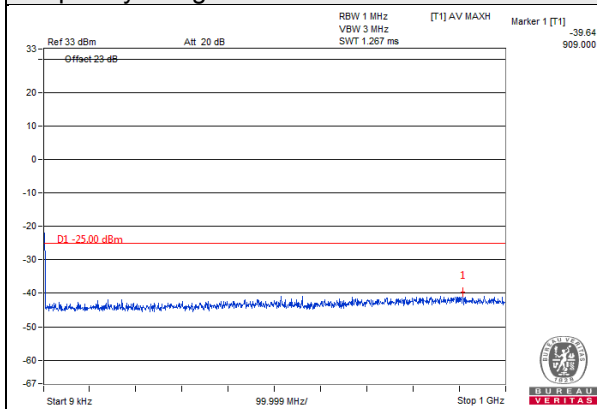


Note: The signal of 9kHz is IF signal from test instrument.

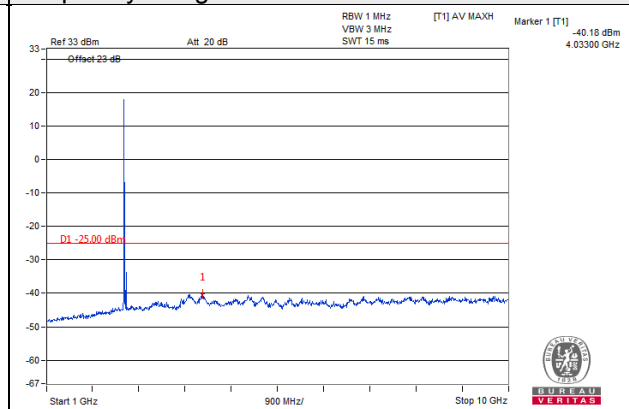
LTE Band 41 Channel Band width: 5MHz

Channel 39675

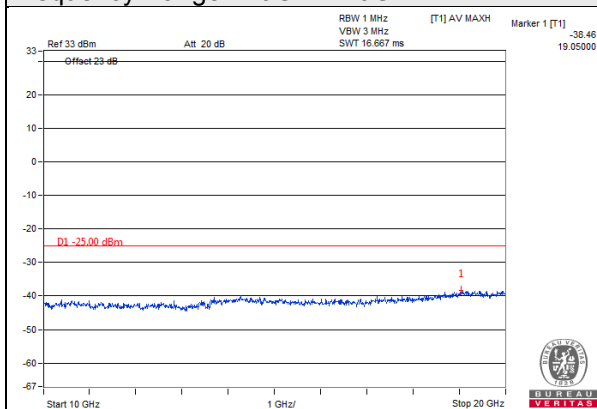
Frequency Range : 9kHz~1GHz



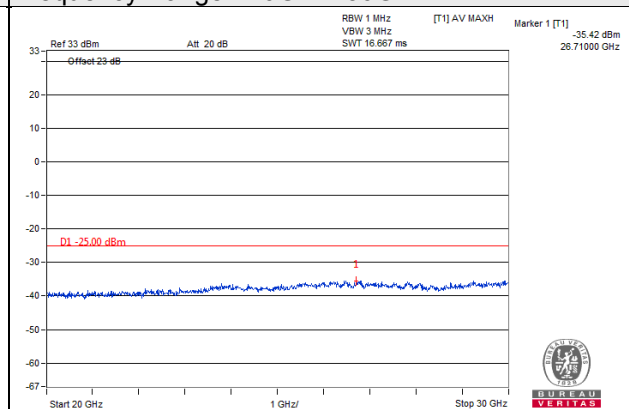
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

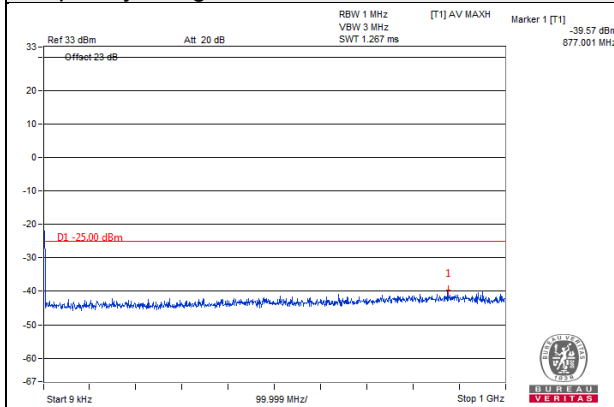


Note: The signal of 9kHz is IF signal from test instrument.

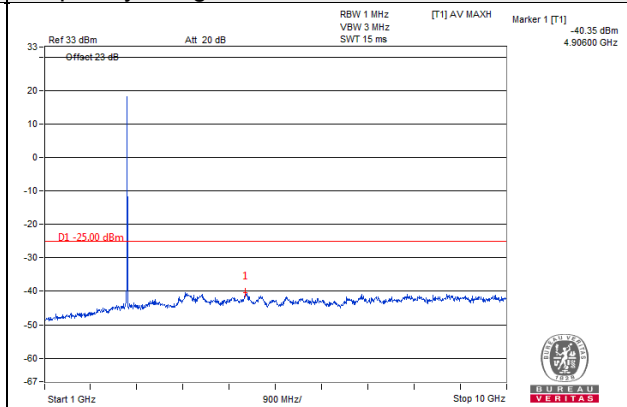
LTE Band 41 Channel Band width: 5MHz

Channel 40620

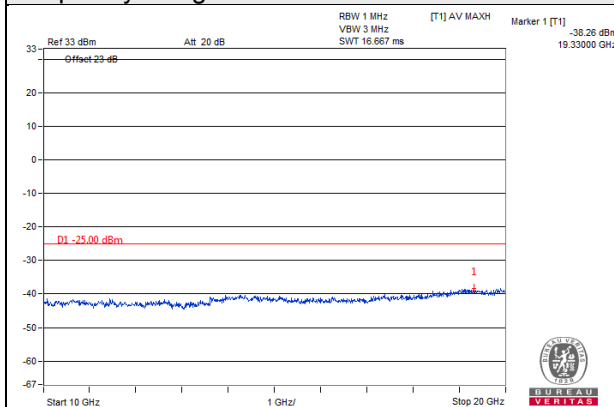
Frequency Range : 9kHz~1GHz



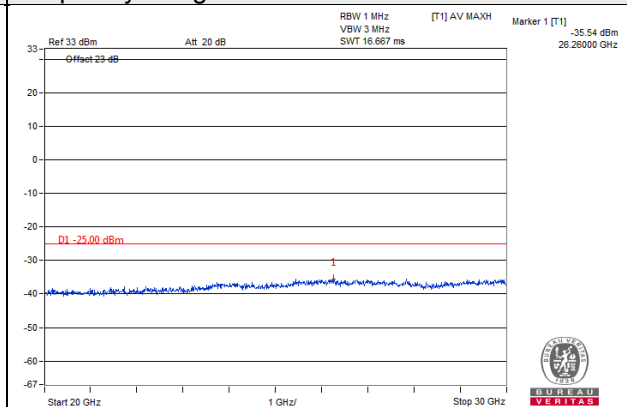
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

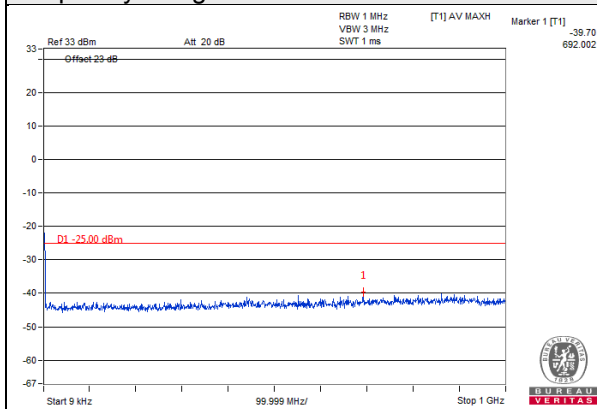


Note: The signal of 9kHz is IF signal from test instrument.

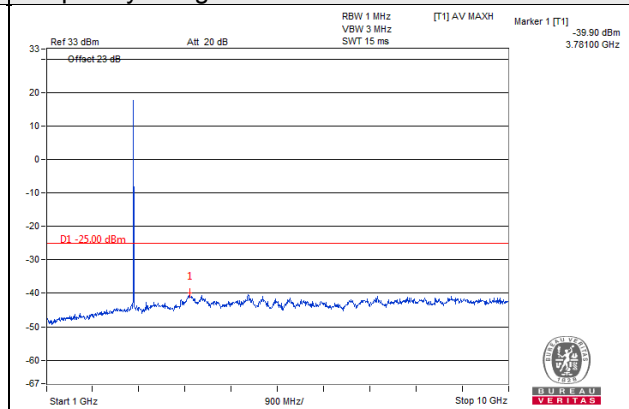
LTE Band 41 Channel Band width: 5MHz

Channel 41565

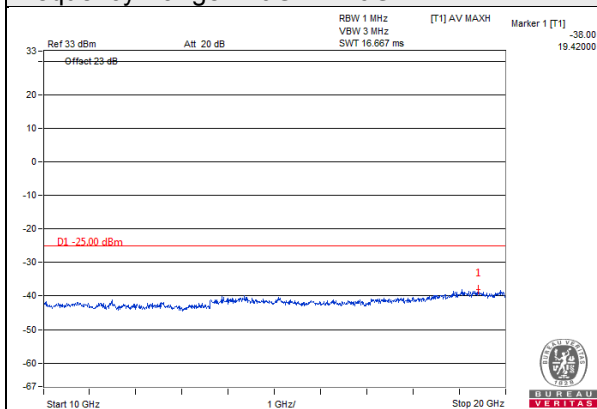
Frequency Range : 9kHz~1GHz



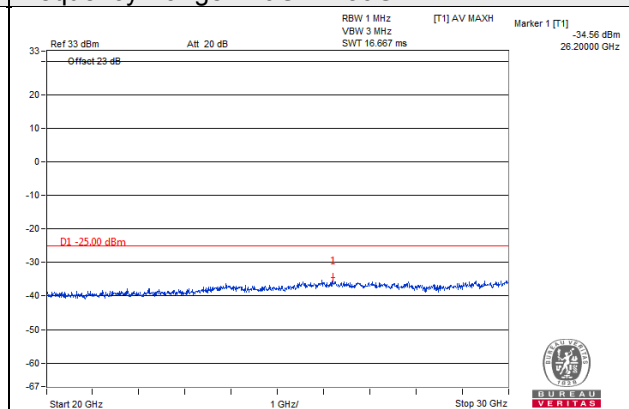
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

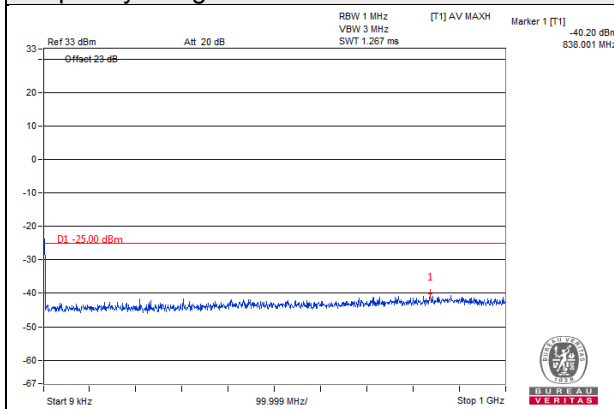


Note: The signal of 9kHz is IF signal from test instrument.

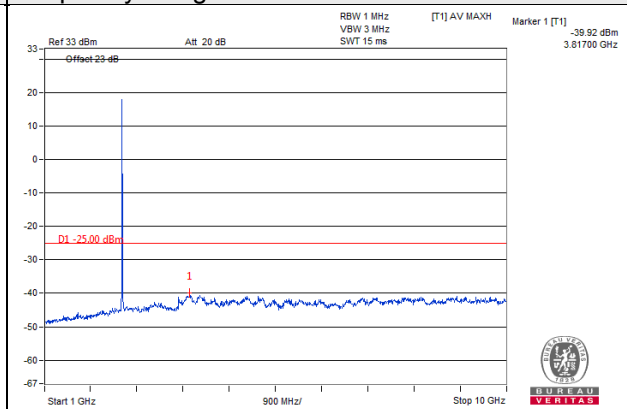
LTE Band 41 Channel Band width: 10MHz

Channel 39700

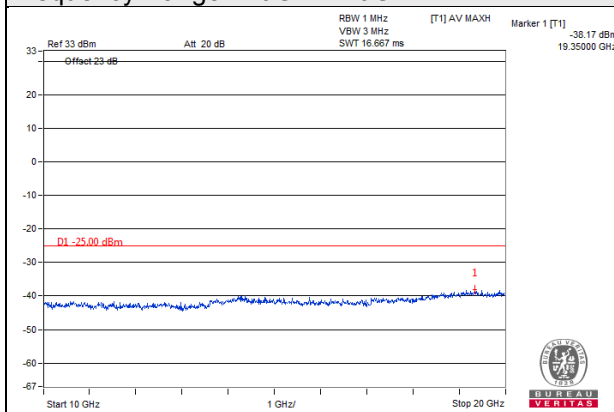
Frequency Range : 9kHz~1GHz



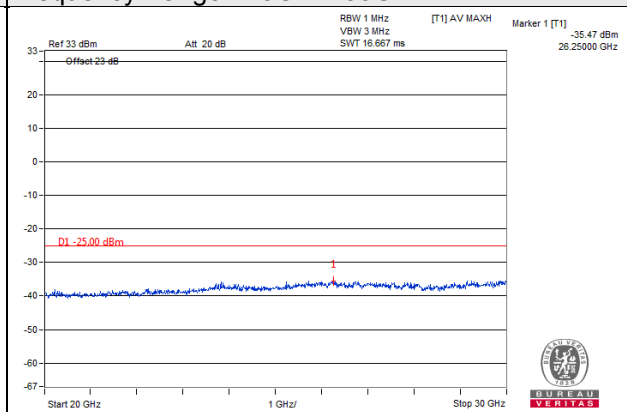
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

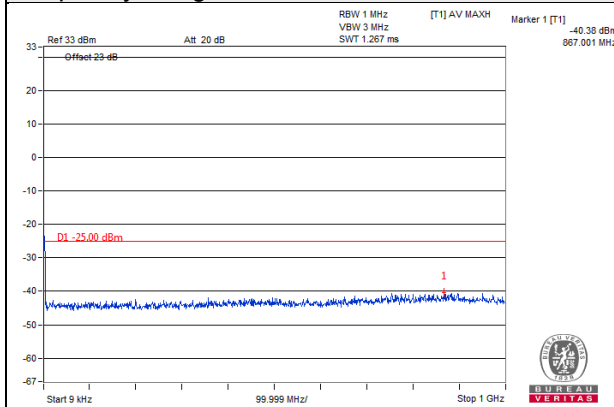


Note: The signal of 9kHz is IF signal from test instrument.

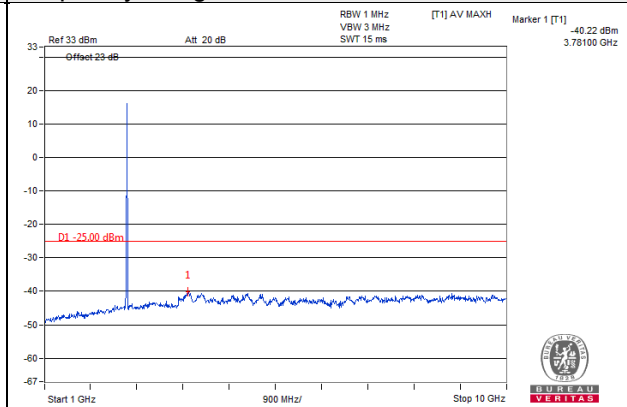
LTE Band 41 Channel Band width: 10MHz

Channel 40620

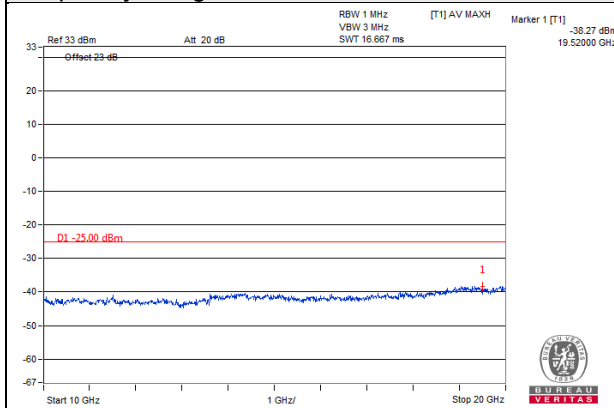
Frequency Range : 9kHz~1GHz



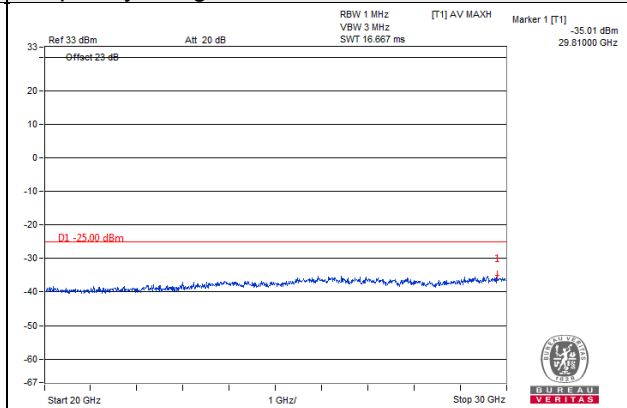
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

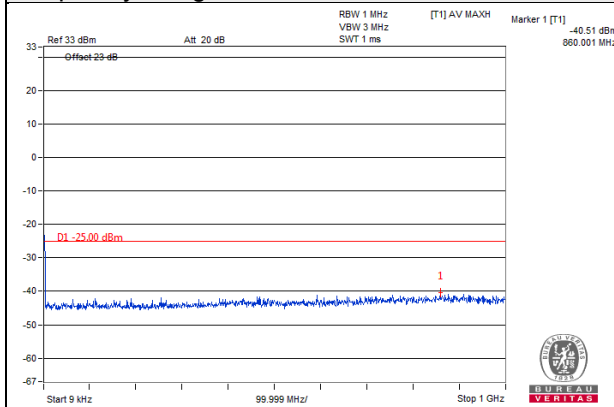


Note: The signal of 9kHz is IF signal from test instrument.

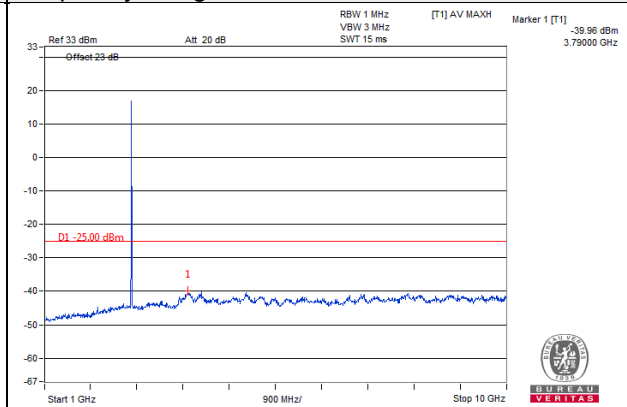
LTE Band 41 Channel Band width: 10MHz

Channel 41540

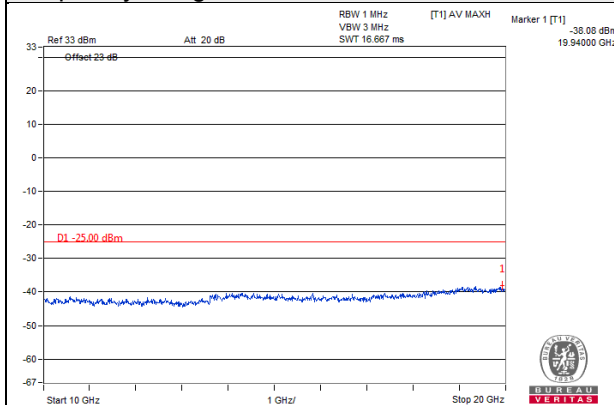
Frequency Range : 9kHz~1GHz



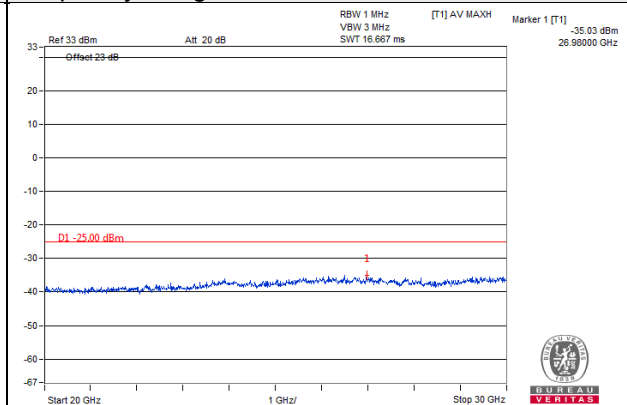
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

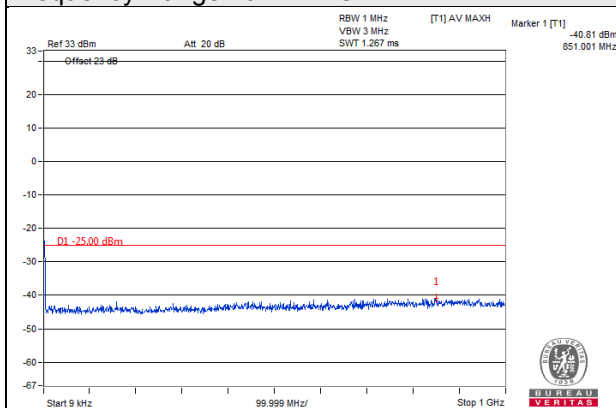


Note: The signal of 9kHz is IF signal from test instrument.

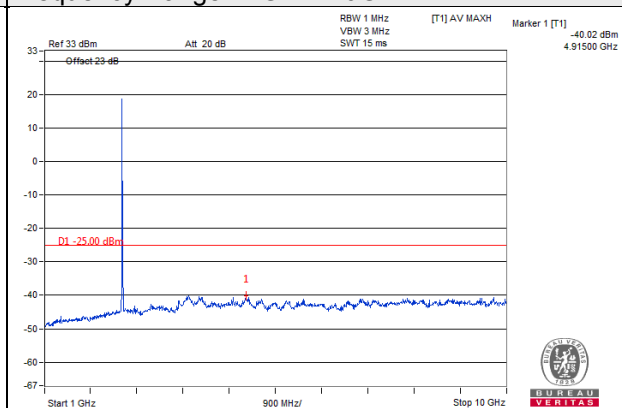
LTE Band 41 Channel Band width: 15MHz

Channel 39725

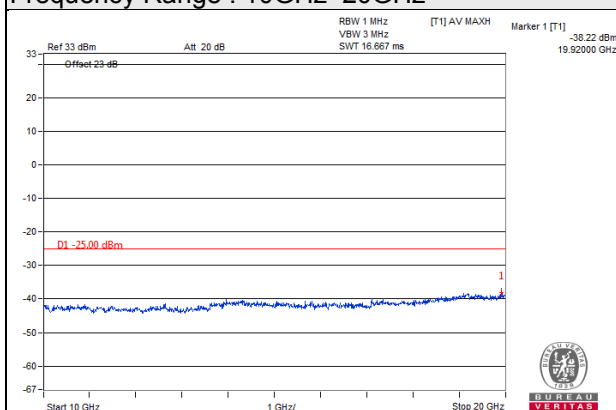
Frequency Range : 9kHz~1GHz



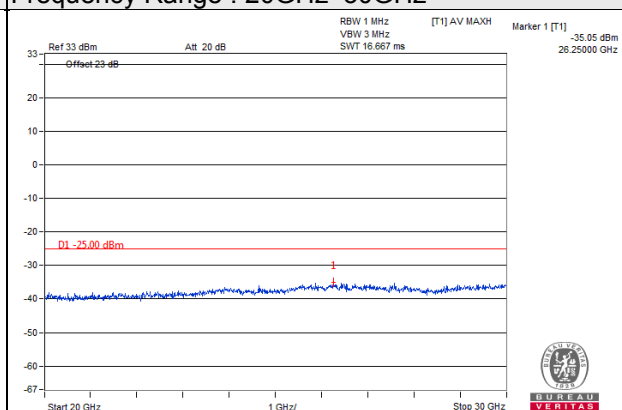
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

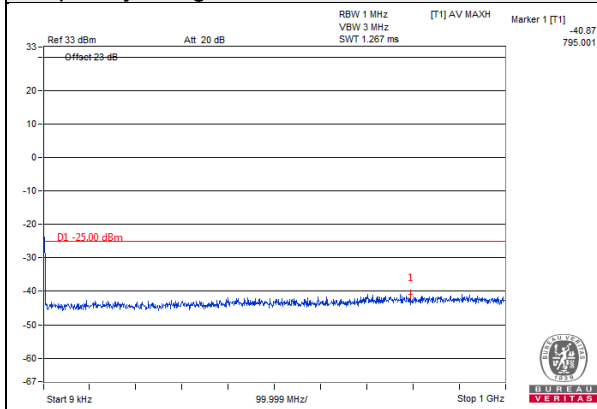


Note: The signal of 9kHz is IF signal from test instrument.

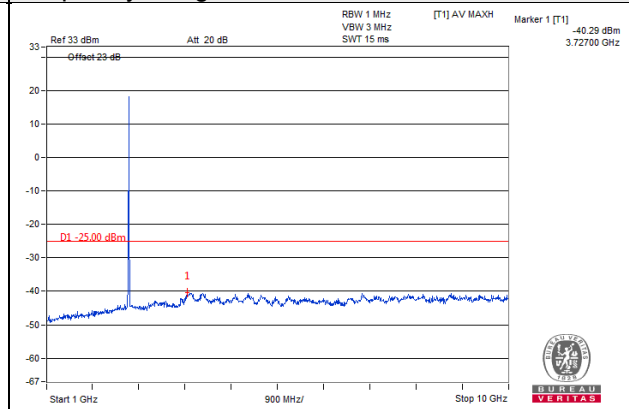
LTE Band 41 Channel Band width: 15MHz

Channel 40620

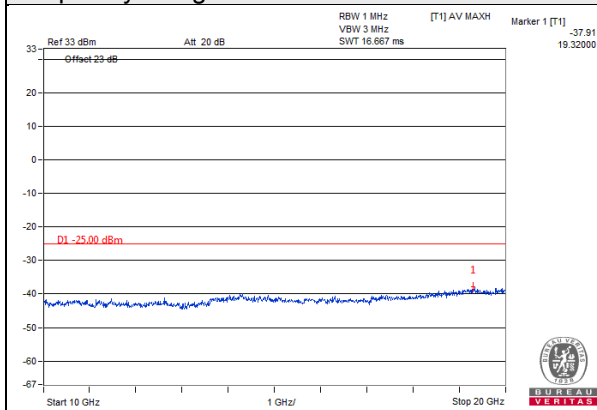
Frequency Range : 9kHz~1GHz



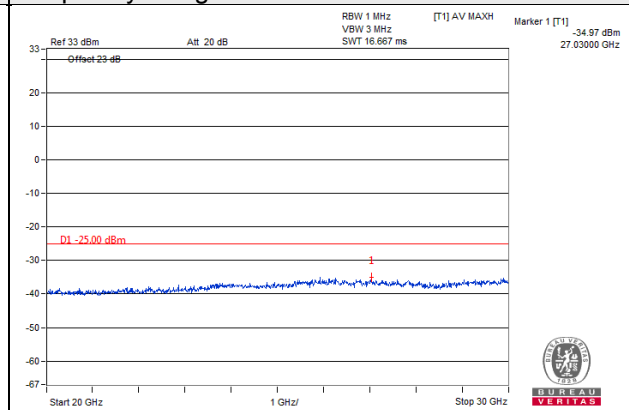
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

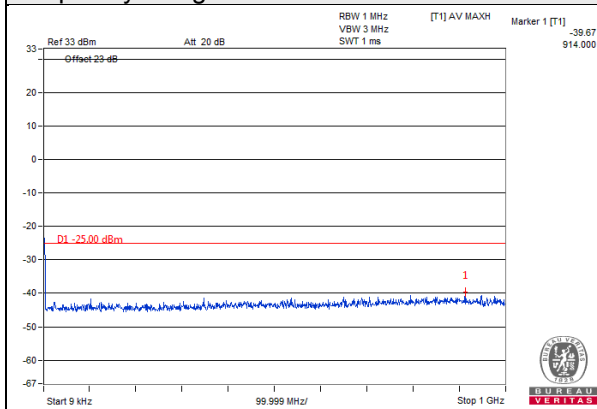


Note: The signal of 9kHz is IF signal from test instrument.

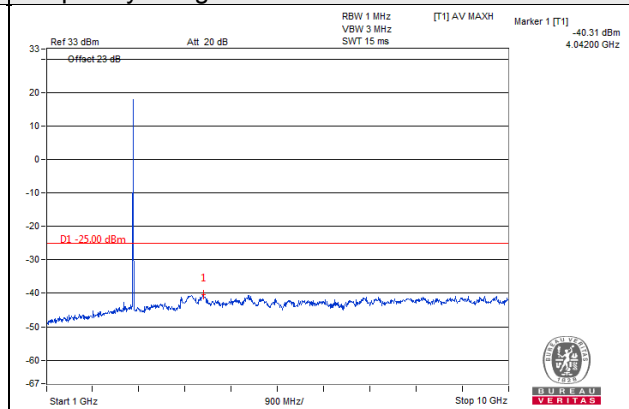
LTE Band 41 Channel Band width: 15MHz

Channel 41515

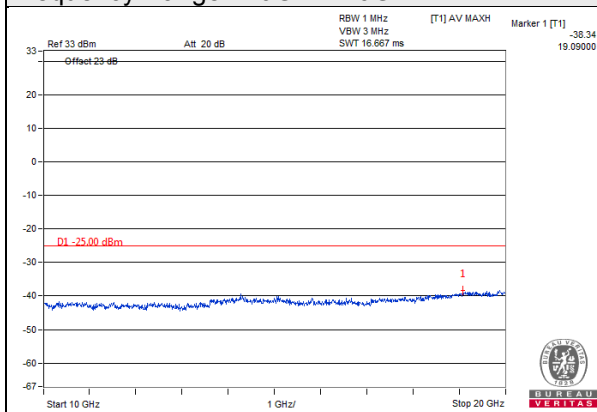
Frequency Range : 9kHz~1GHz



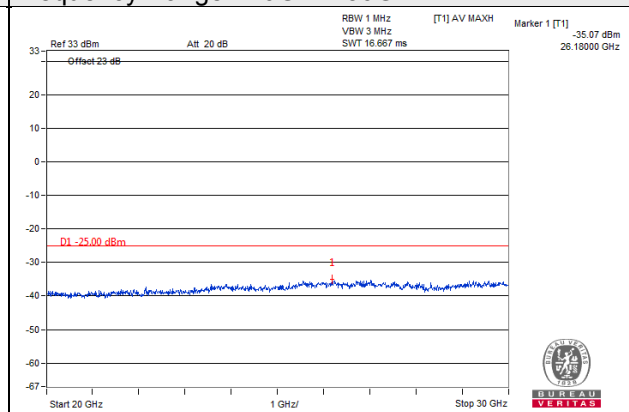
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

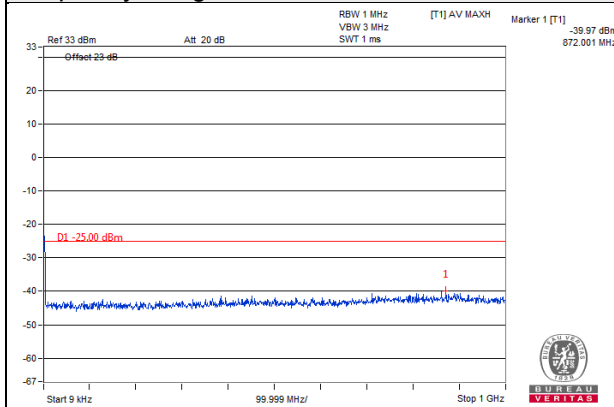


Note: The signal of 9kHz is IF signal from test instrument.

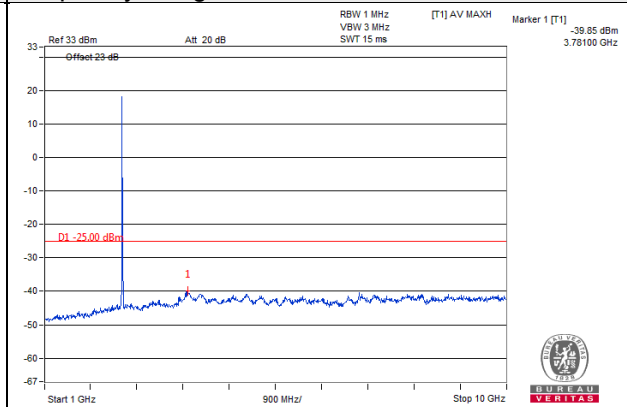
LTE Band 41 Channel Band width: 20MHz

Channel 39750

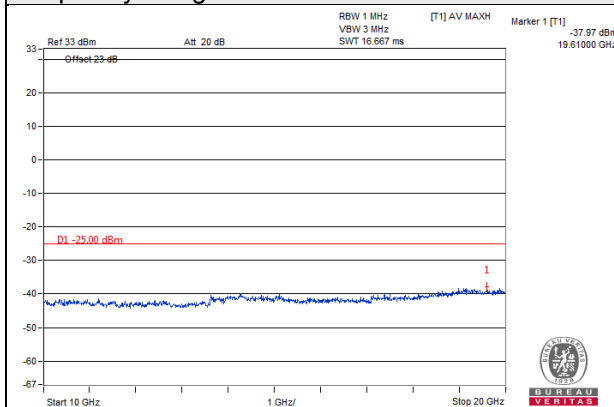
Frequency Range : 9kHz~1GHz



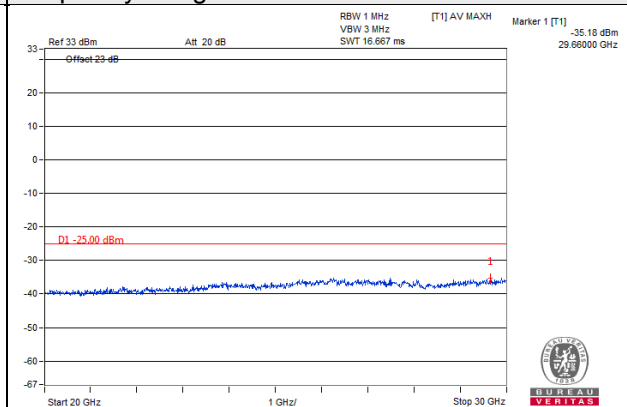
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

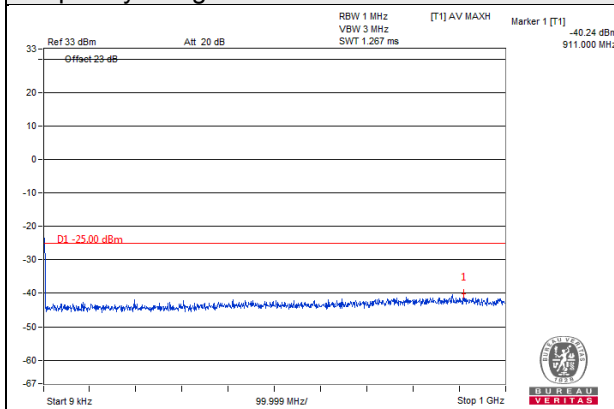


Note: The signal of 9kHz is IF signal from test instrument.

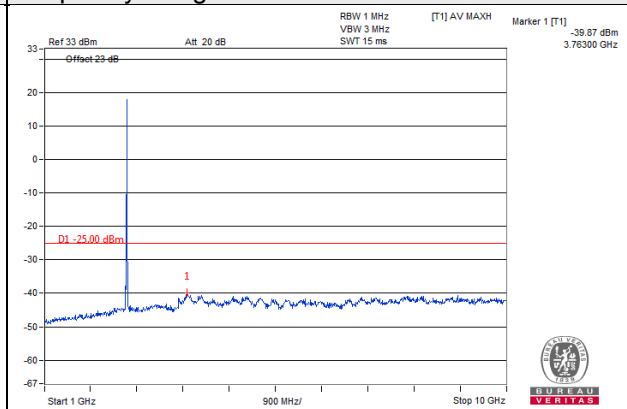
LTE Band 41 Channel Band width: 20MHz

Channel 40620

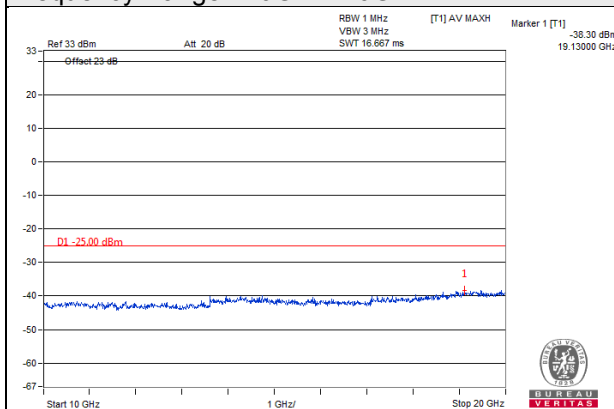
Frequency Range : 9kHz~1GHz



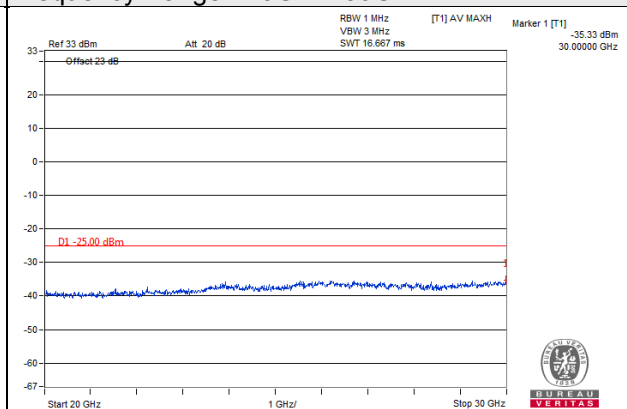
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz

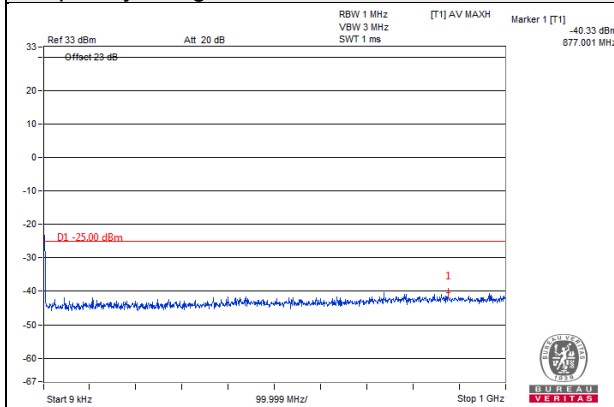


Note: The signal of 9kHz is IF signal from test instrument.

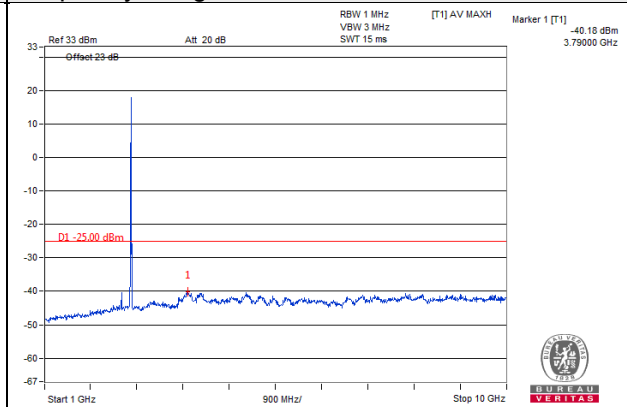
LTE Band 41 Channel Band width: 20MHz

Channel 41490

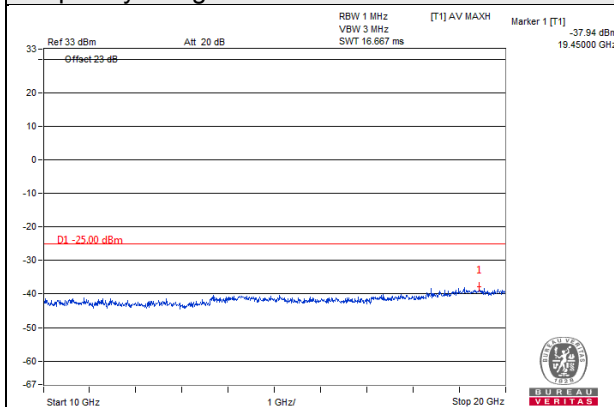
Frequency Range : 9kHz~1GHz



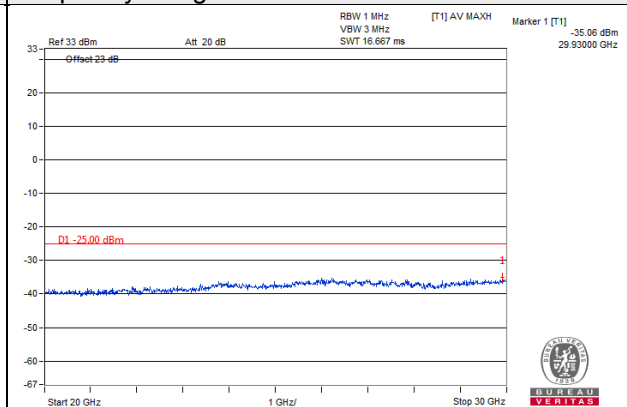
Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz



Frequency Range : 20GHz~30GHz



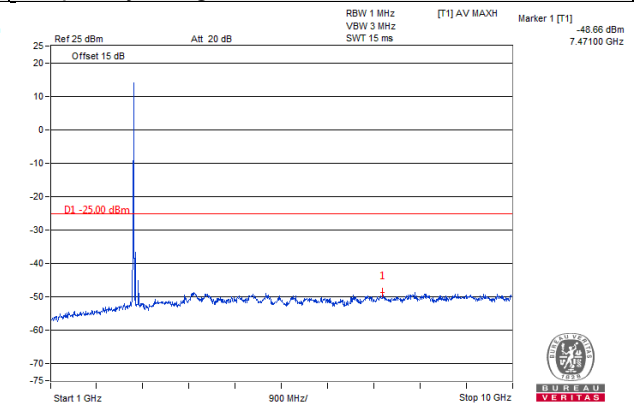
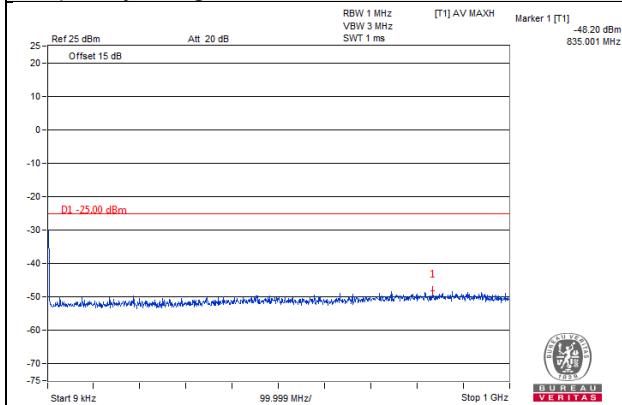
Note: The signal of 9kHz is IF signal from test instrument.

LTE CA 41C Channel Band width: 10+5MHz

Channel 40620+40692

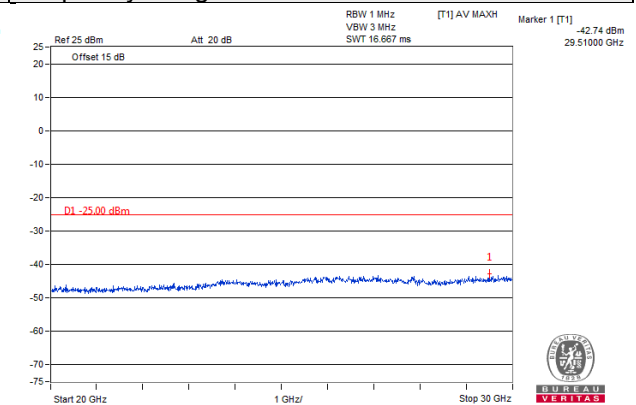
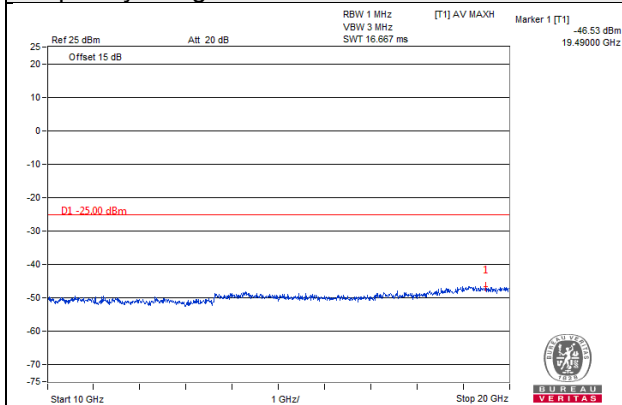
Frequency Range : 9kHz~1GHz

Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

Frequency Range : 20GHz~30GHz

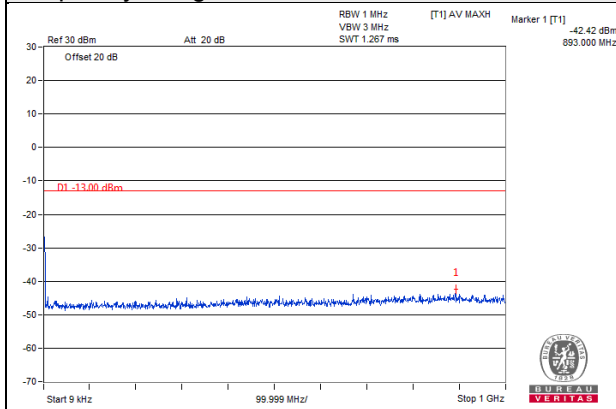


Note: The signal of 9kHz is IF signal from test instrument.

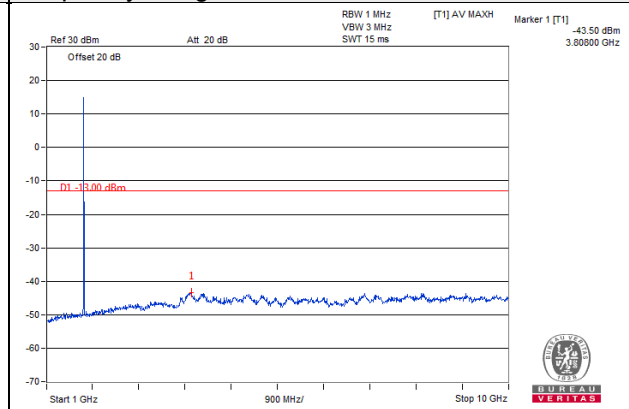
LTE Band 66 Channel Band width: 1.4MHz

Channel 131979

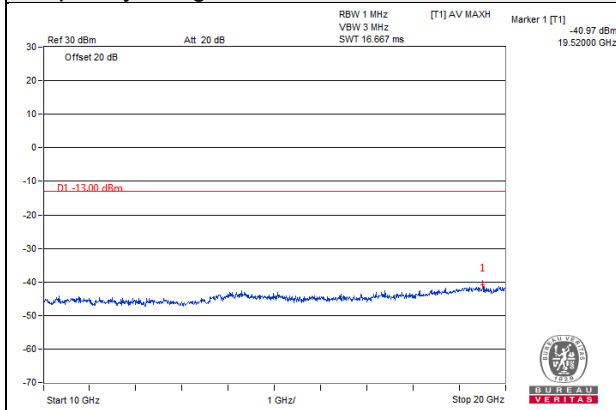
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

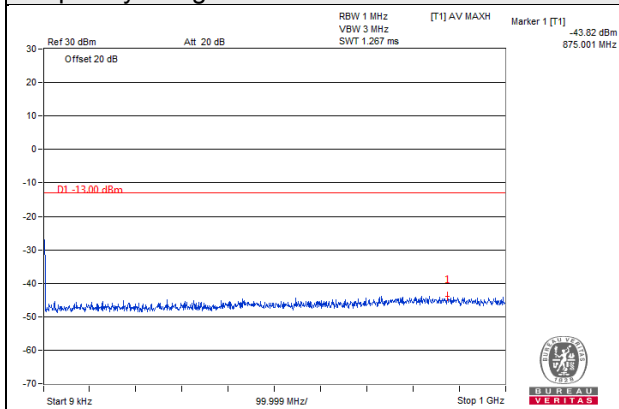


Note: The signal of 9kHz is IF signal from test instrument.

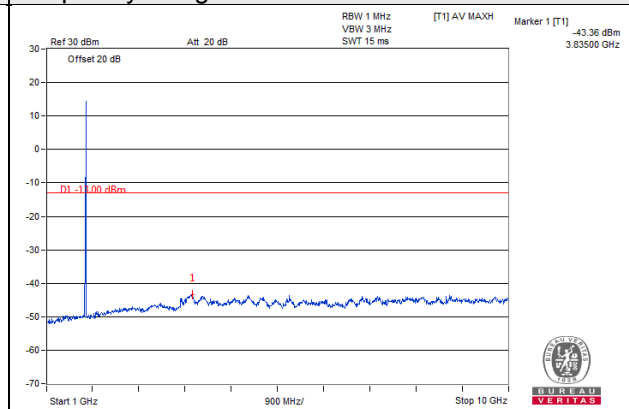
LTE Band 66 Channel Band width: 1.4MHz

Channel 132322

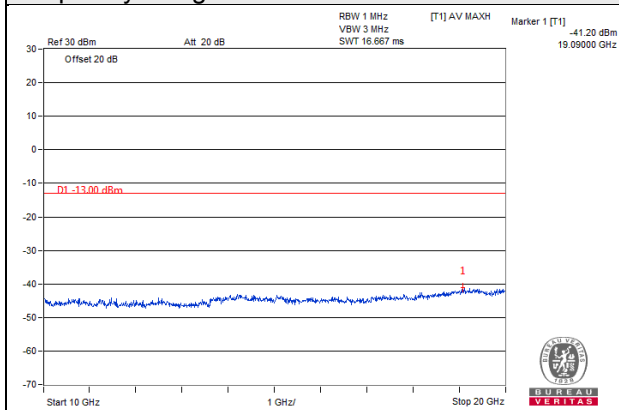
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

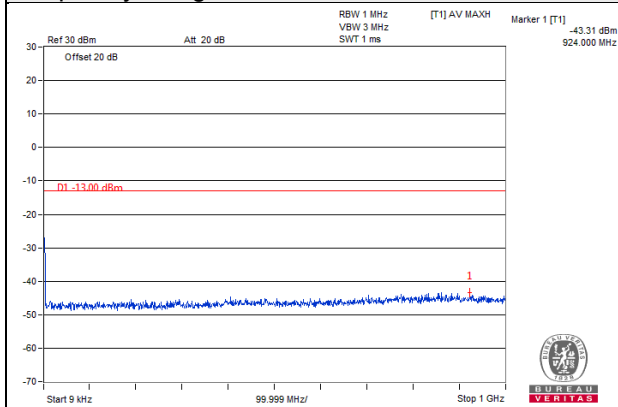


Note: The signal of 9kHz is IF signal from test instrument.

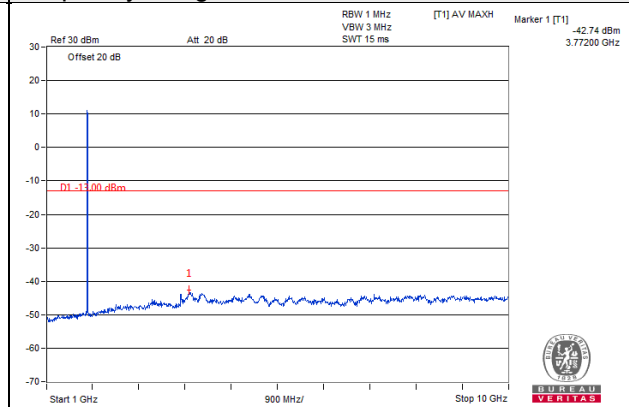
LTE Band 66 Channel Band width: 1.4MHz

Channel 132665

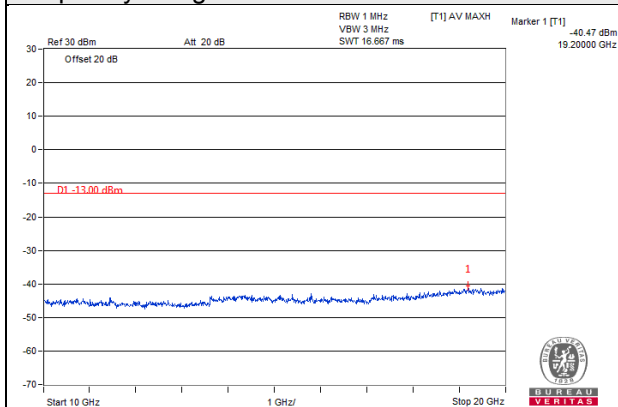
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

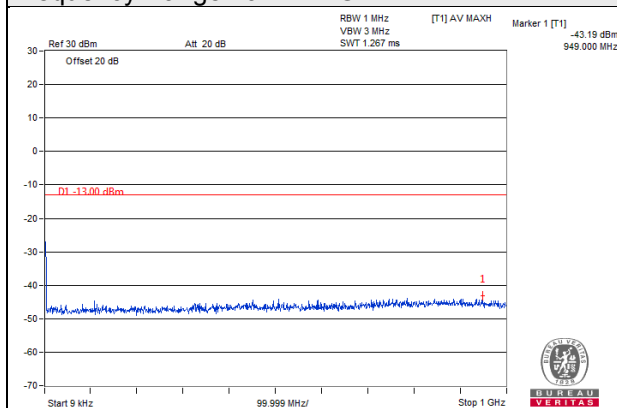


Note: The signal of 9kHz is IF signal from test instrument.

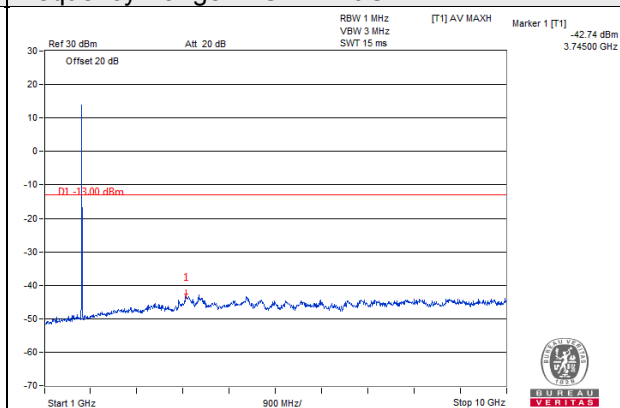
LTE Band 66 Channel Band width: 3MHz

Channel 131987

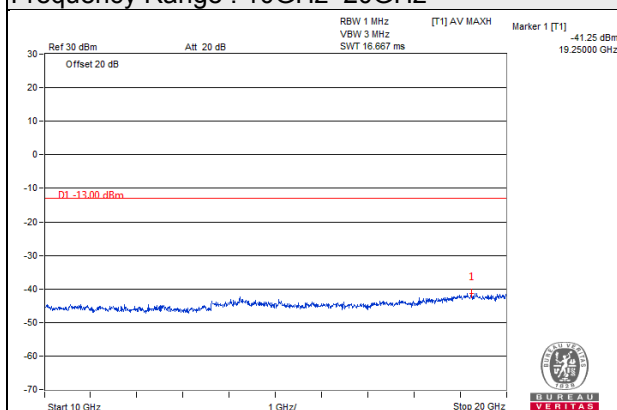
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

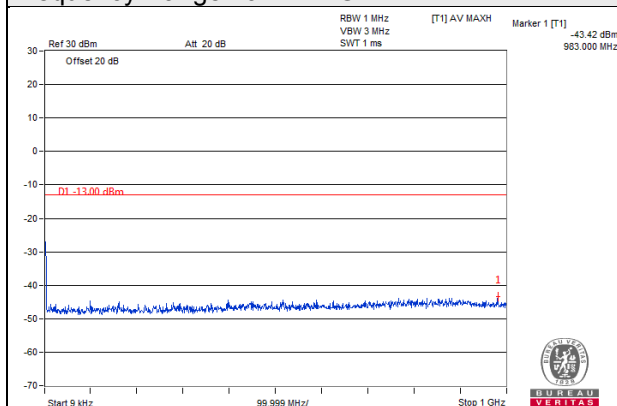


Note: The signal of 9kHz is IF signal from test instrument.

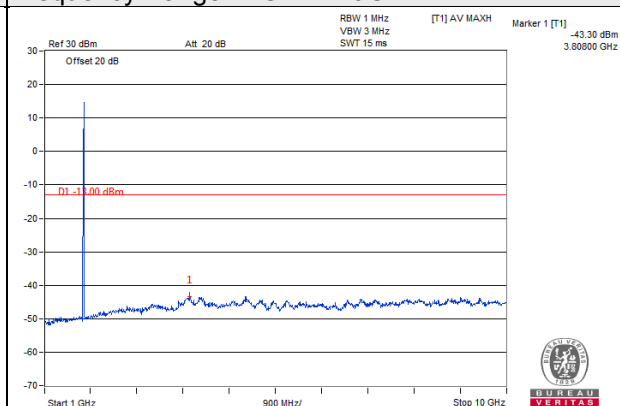
LTE Band 66 Channel Band width: 3MHz

Channel 132322

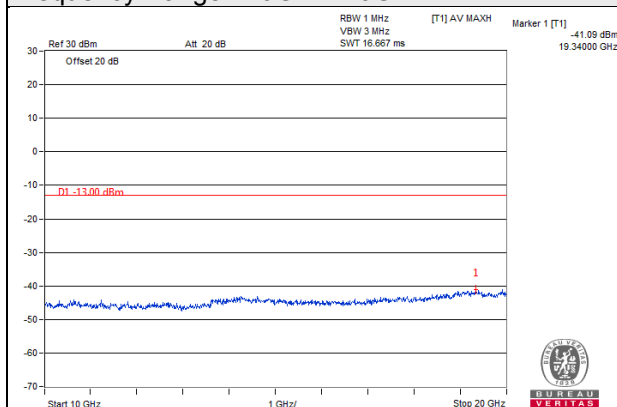
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

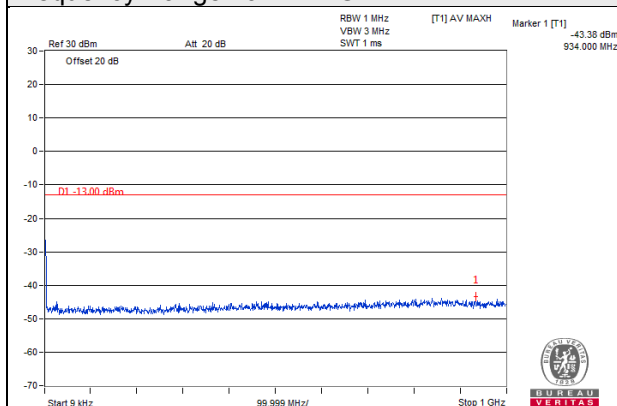


Note: The signal of 9kHz is IF signal from test instrument.

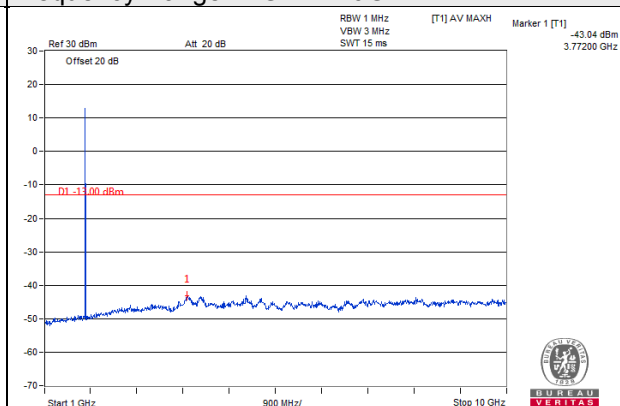
LTE Band 66 Channel Band width: 3MHz

Channel 132657

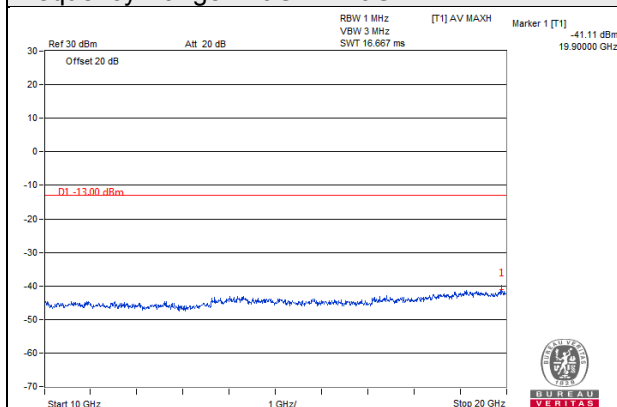
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

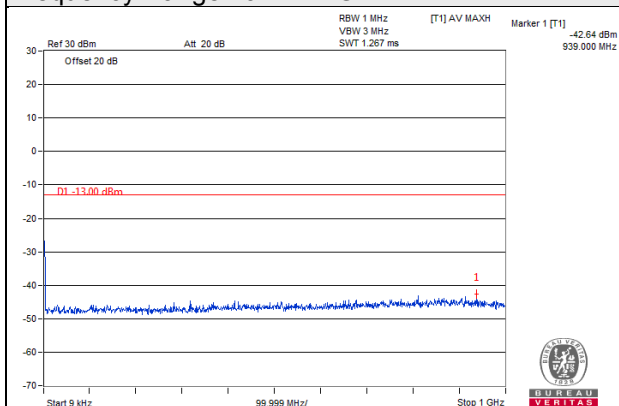


Note: The signal of 9kHz is IF signal from test instrument.

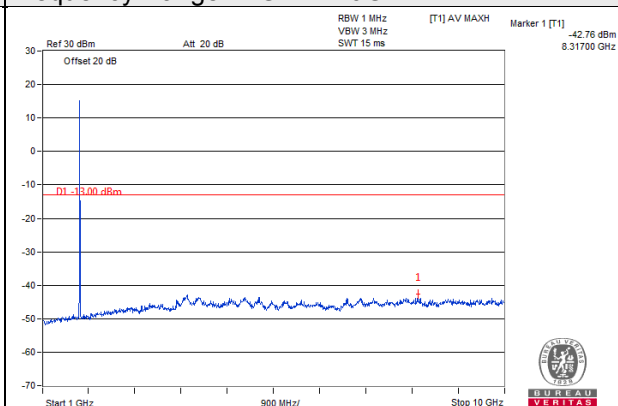
LTE Band 66 Channel Band width: 5MHz

Channel 131997

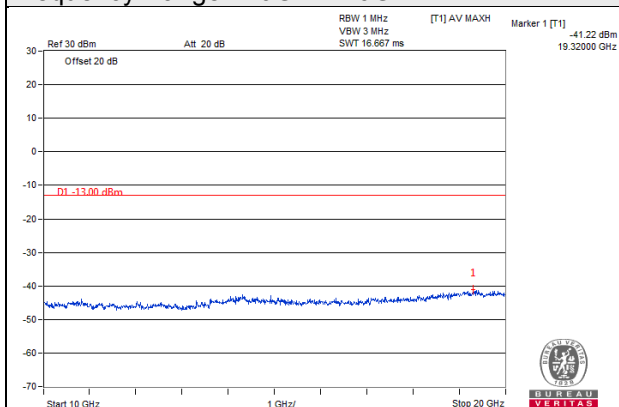
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

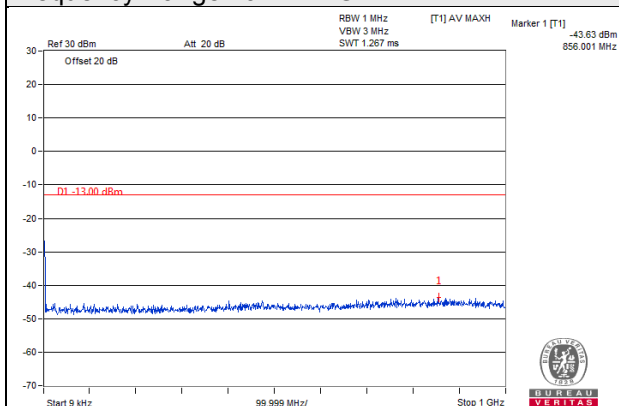


Note: The signal of 9kHz is IF signal from test instrument.

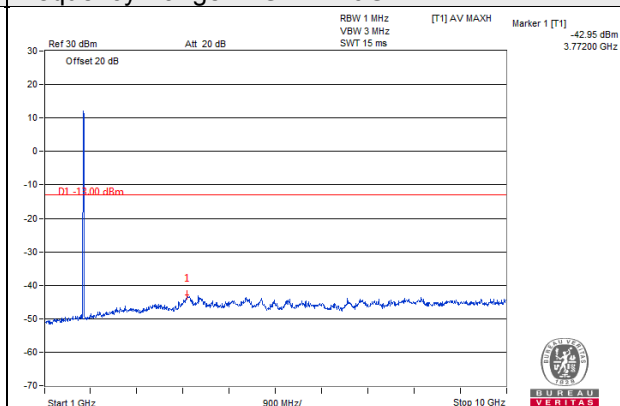
LTE Band 66 Channel Band width: 5MHz

Channel 132322

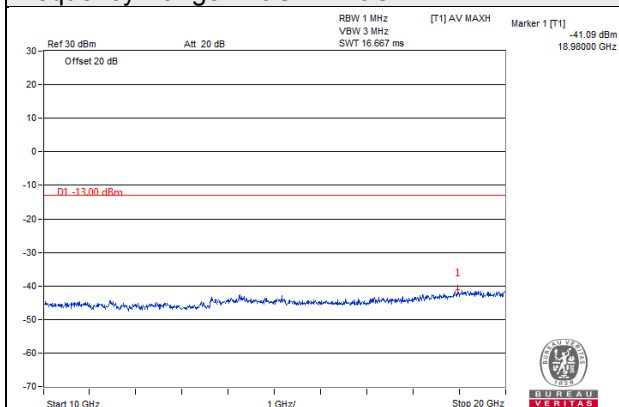
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

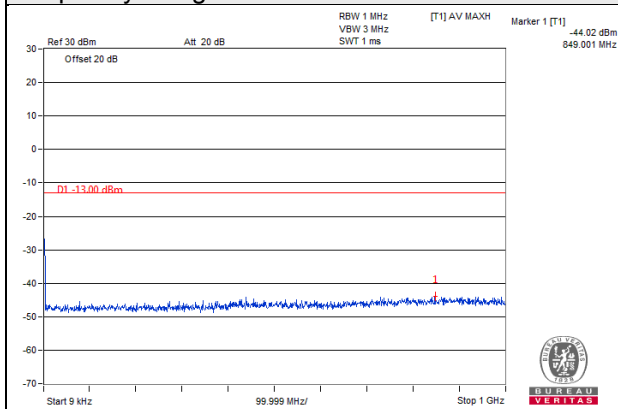


Note: The signal of 9kHz is IF signal from test instrument.

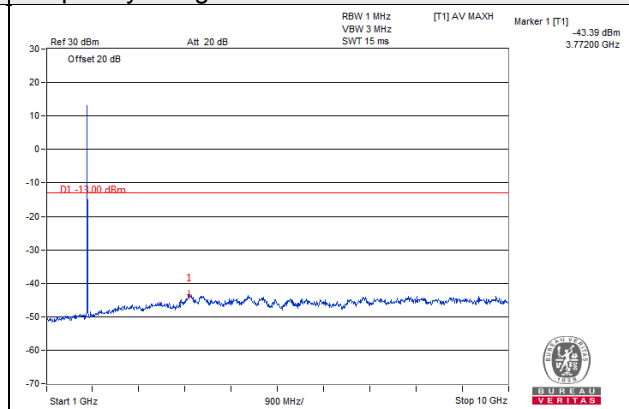
LTE Band 66 Channel Band width: 5MHz

Channel 132647

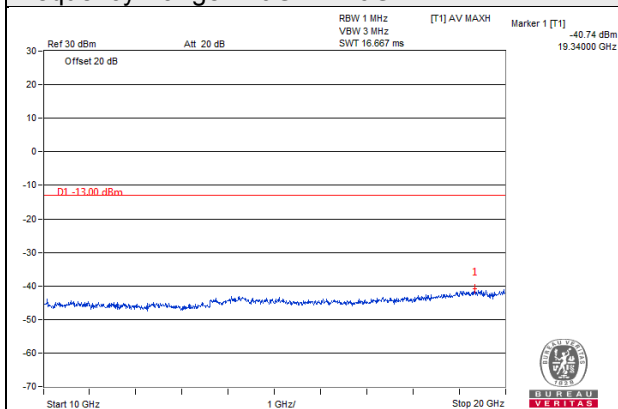
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

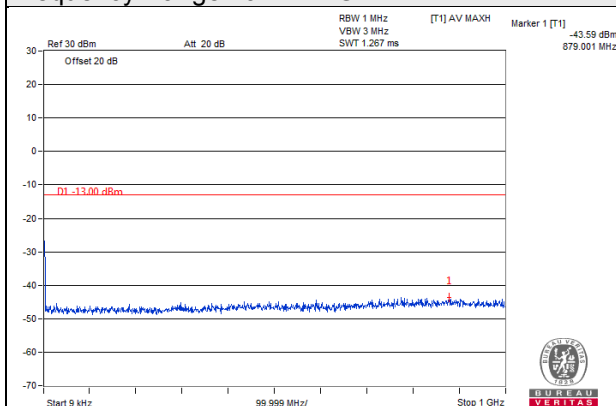


Note: The signal of 9kHz is IF signal from test instrument.

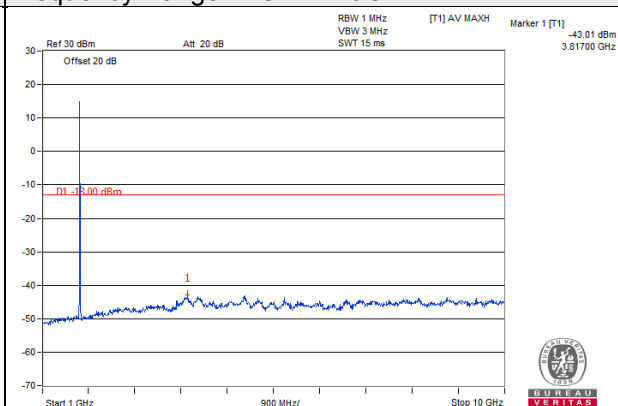
LTE Band 66 Channel Band width: 10MHz

Channel 132022

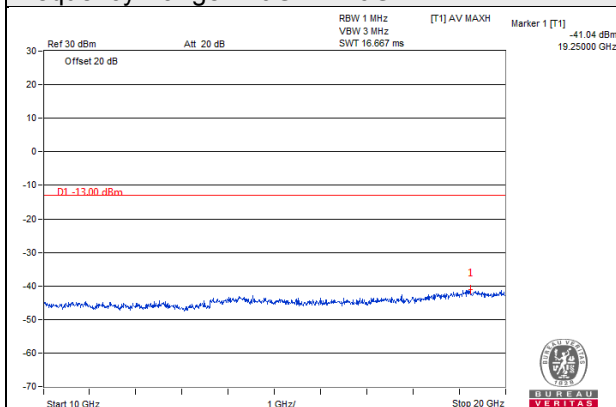
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

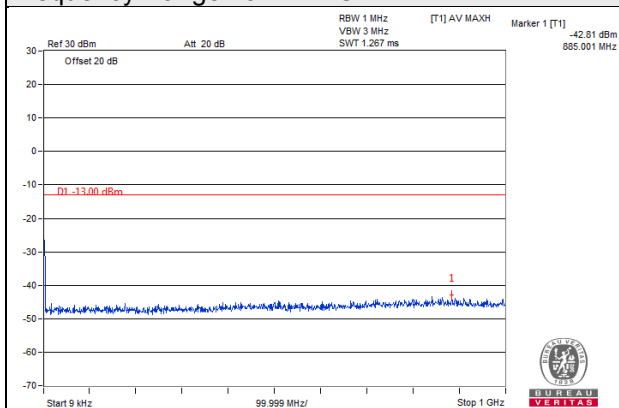


Note: The signal of 9kHz is IF signal from test instrument.

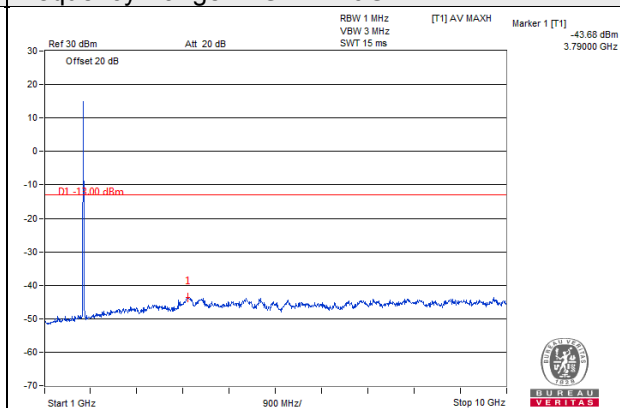
LTE Band 66 Channel Band width: 10MHz

Channel 132322

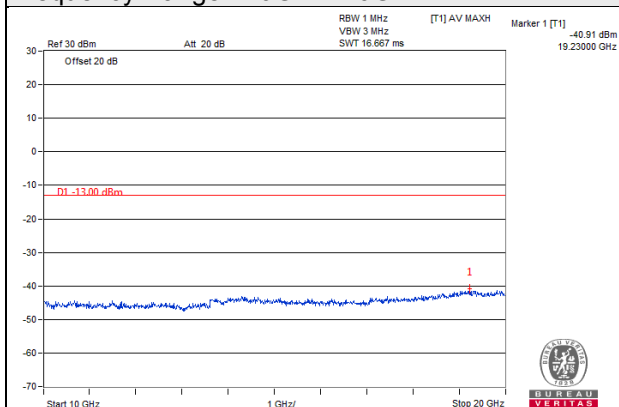
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

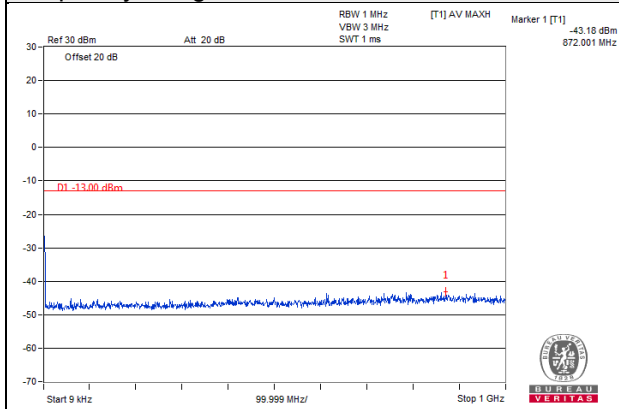


Note: The signal of 9kHz is IF signal from test instrument.

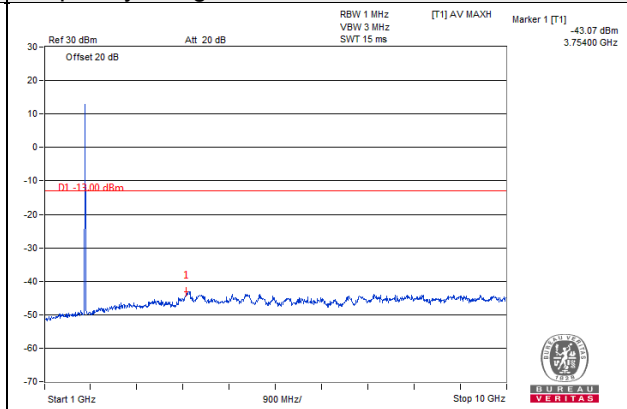
LTE Band 66 Channel Band width: 10MHz

Channel 132622

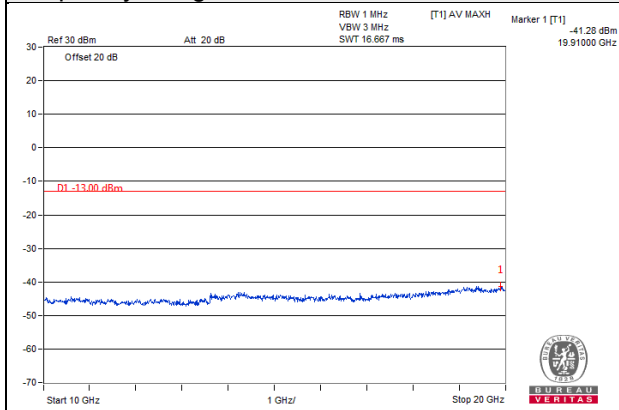
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

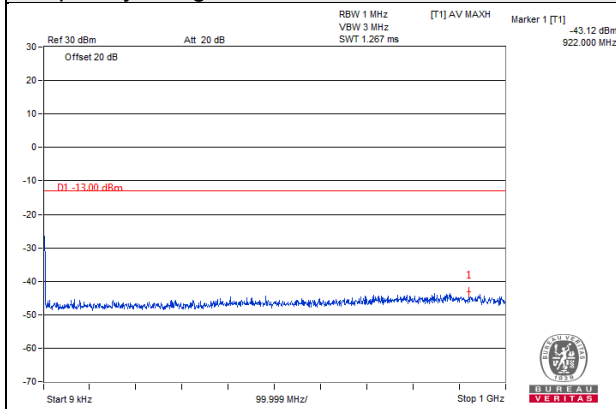


Note: The signal of 9kHz is IF signal from test instrument.

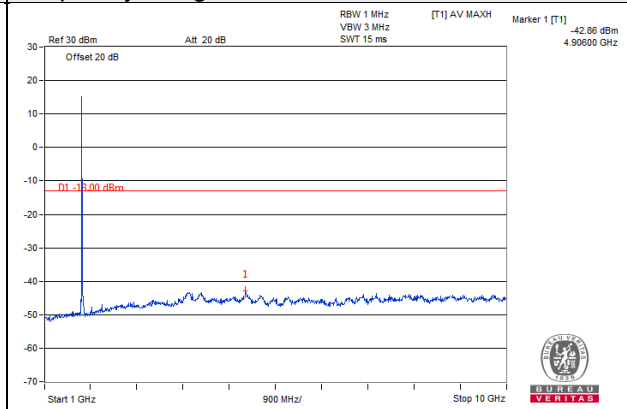
LTE Band 66 Channel Band width: 15MHz

Channel 132047

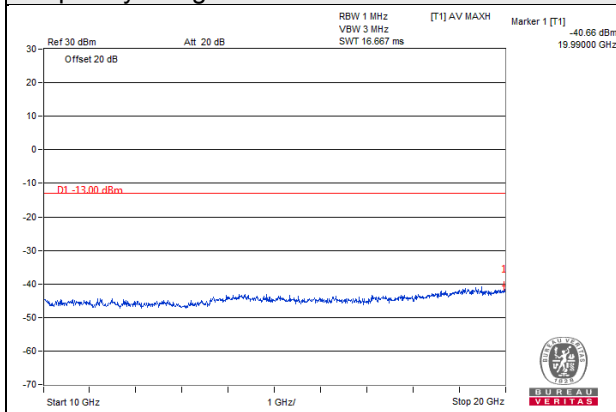
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

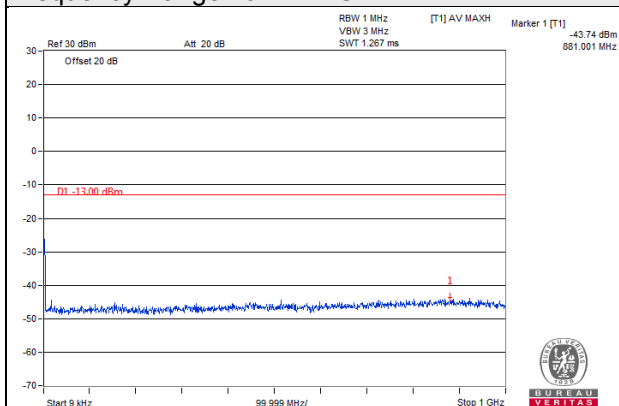


Note: The signal of 9kHz is IF signal from test instrument.

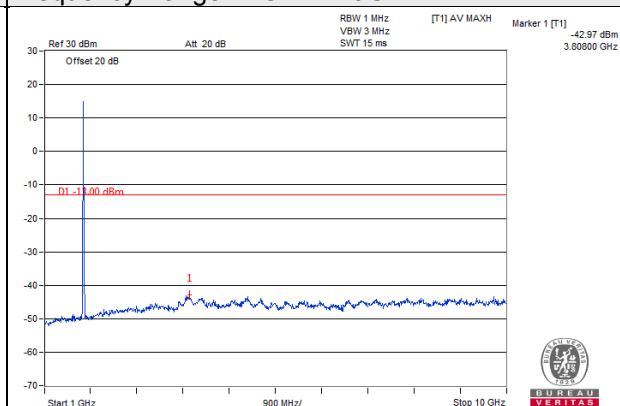
LTE Band 66 Channel Band width: 15MHz

Channel 132322

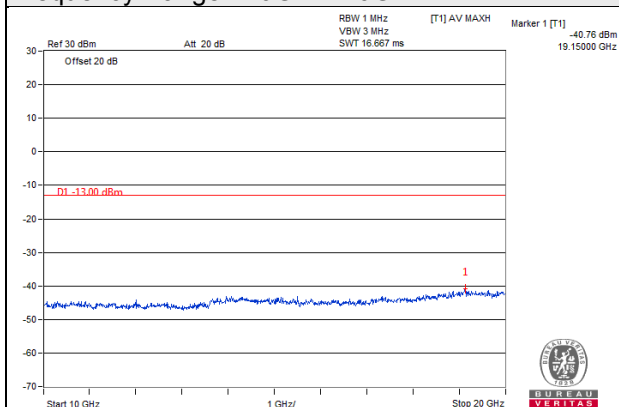
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

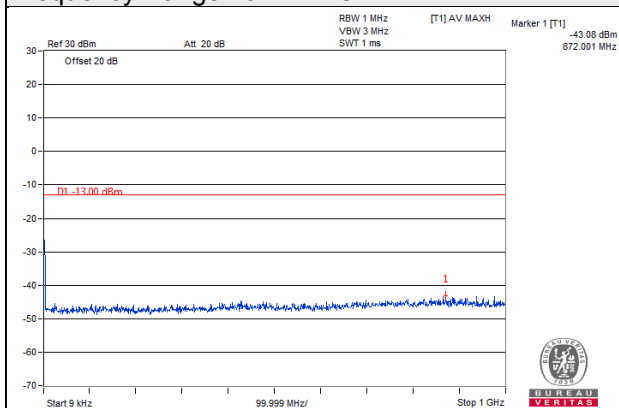


Note: The signal of 9kHz is IF signal from test instrument.

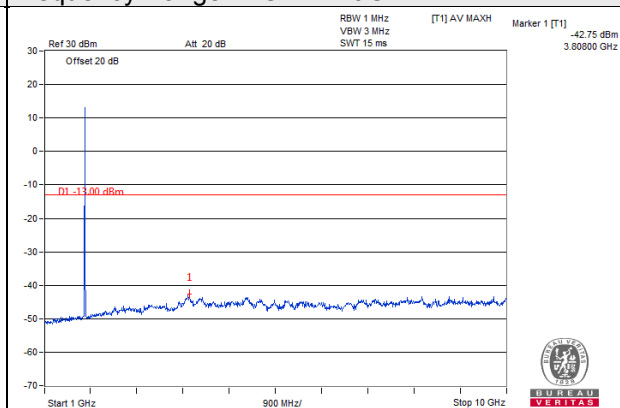
LTE Band 66 Channel Band width: 15MHz

Channel 132597

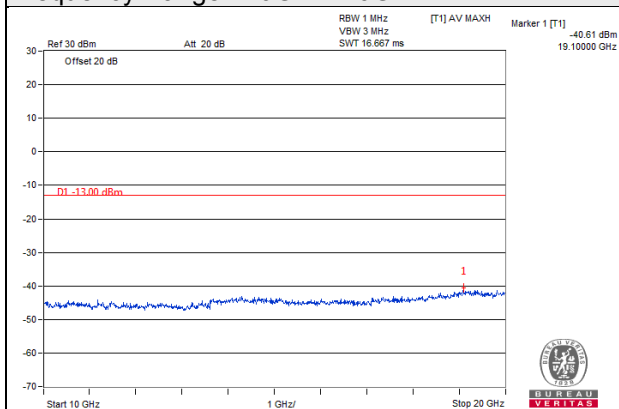
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

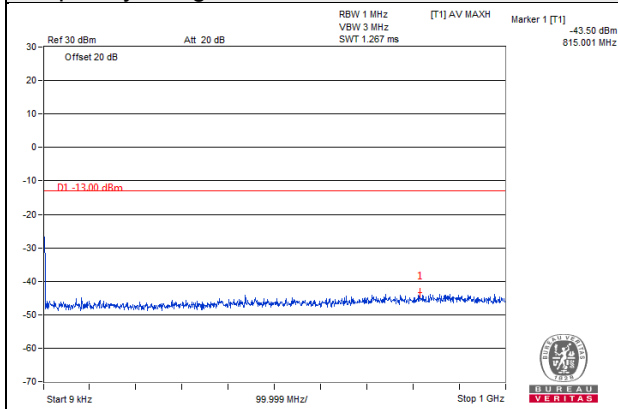


Note: The signal of 9kHz is IF signal from test instrument.

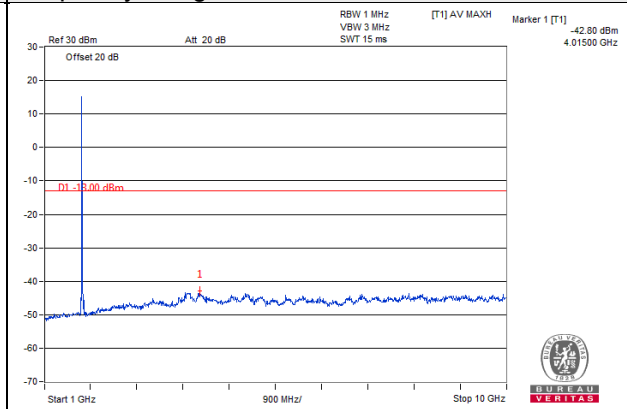
LTE Band 66 Channel Band width: 20MHz

Channel 132072

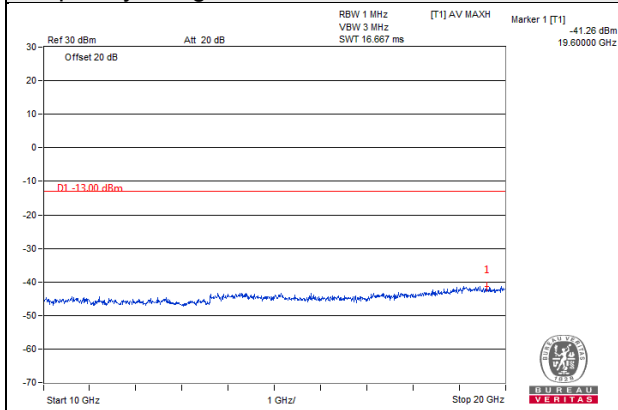
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

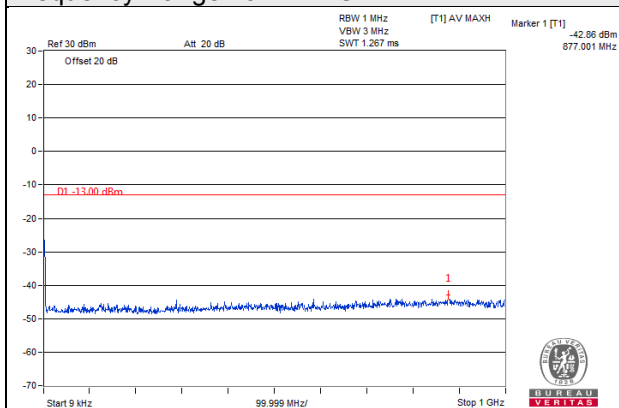


Note: The signal of 9kHz is IF signal from test instrument.

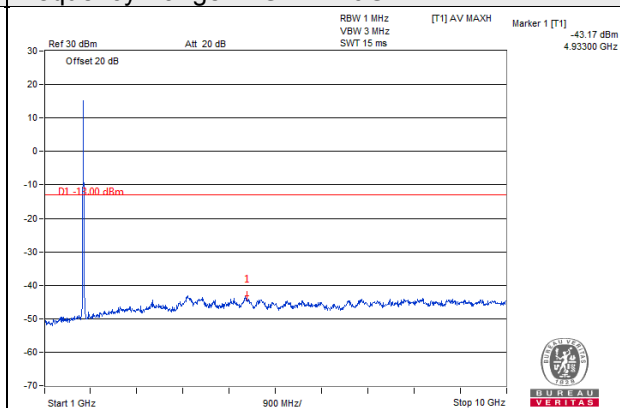
LTE Band 66 Channel Band width: 20MHz

Channel 132322

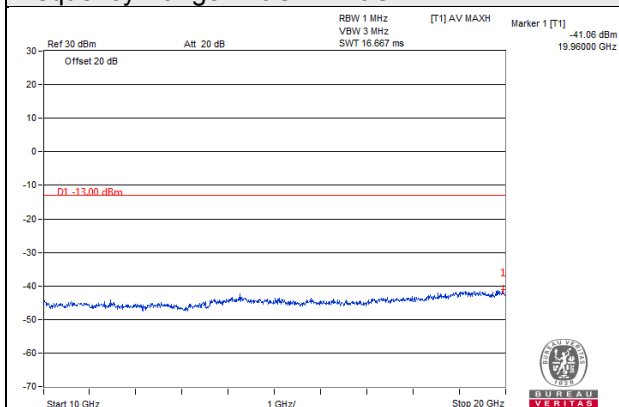
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

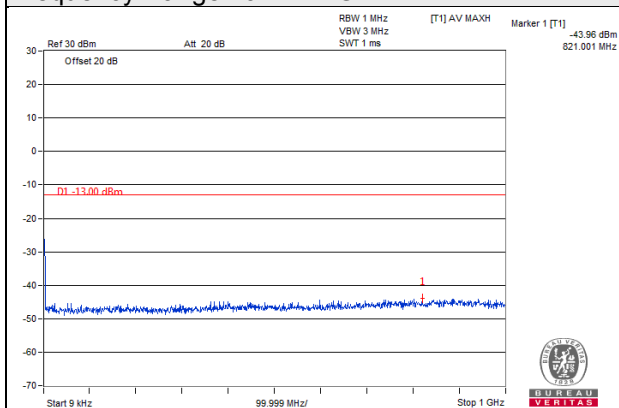


Note: The signal of 9kHz is IF signal from test instrument.

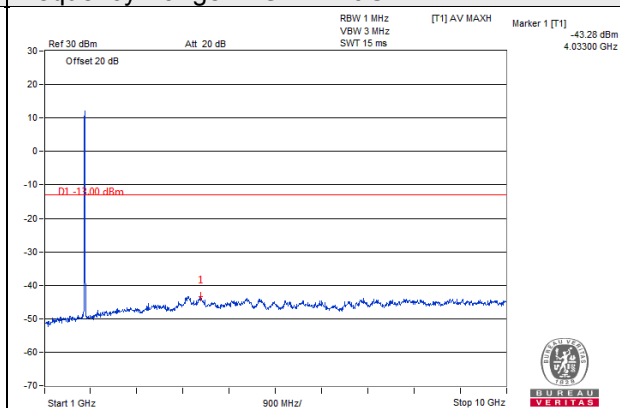
LTE Band 66 Channel Band width: 20MHz

Channel 132572

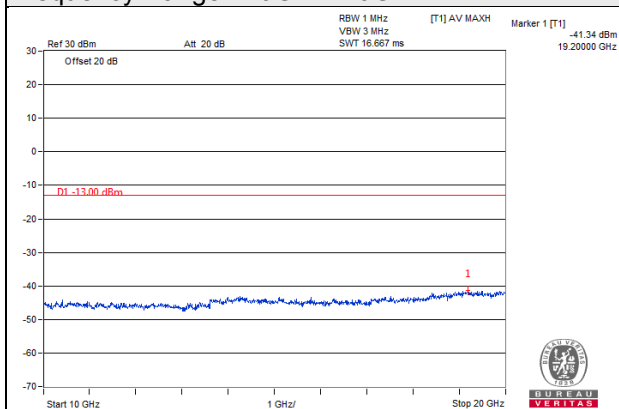
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz



Note: The signal of 9kHz is IF signal from test instrument.

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

According to FCC 27.53(a)(4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz; (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

According to FCC 27.53 (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

According to FCC 27.53(f) For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

According to FCC 27.53(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) AWS emission limits— General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log (P)$ dB.

According to FCC 27.53(v)(4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

4.8.2 Test Procedure

- a. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m 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 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = Read Value (dBμV/m) - Correction Factor @ 3m
- d. Correction Factor (dB) @ 3m = $20\log(D) - 104.8$; where D is the measurement distance @ 3m = -95.26dB

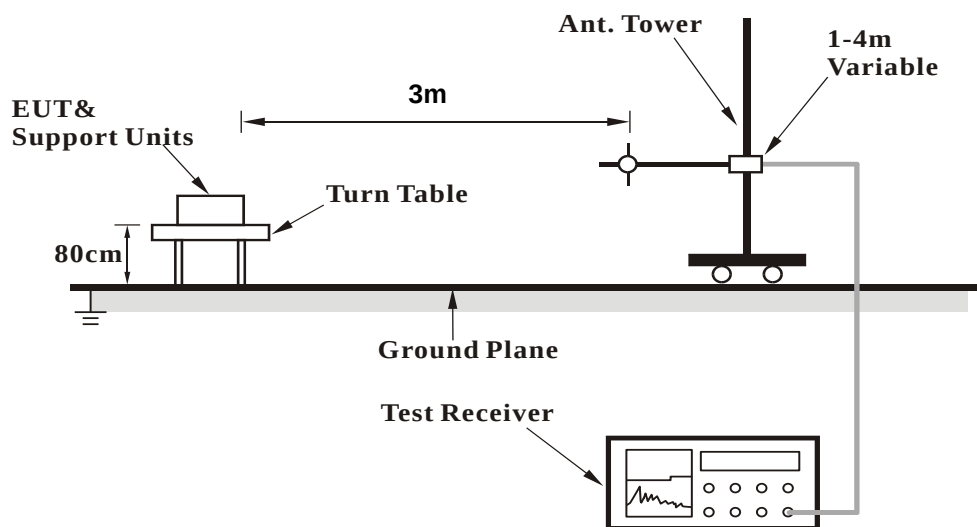
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.8.3 Deviation from Test Standard

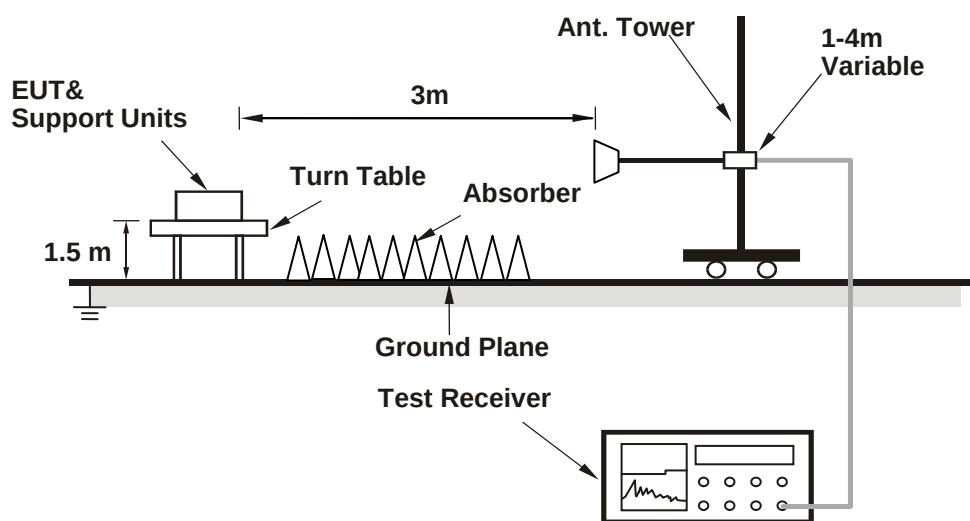
No deviation.

4.8.4 Test Setup

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.8.5 Test Results

Below 1GHz

WCDMA:

Mode	TX channel 1312	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	91.92	35.74	-95.26	-59.52	-13	-46.52
2	239.05	40.18	-95.26	-55.08	-13	-42.08
3	288.48	36.34	-95.26	-58.92	-13	-45.92
4	345.66	34.43	-95.26	-60.83	-13	-47.83
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	67.48	32.65	-95.26	-62.61	-13	-49.61
2	96.08	31.95	-95.26	-63.31	-13	-50.31
3	129.07	27.59	-95.26	-67.67	-13	-54.67
4	235.45	32.89	-95.26	-62.37	-13	-49.37

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 1413	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	94.58	36.95	-95.26	-58.31	-13	-45.31
2	235.35	39.47	-95.26	-55.79	-13	-42.79
3	288.05	35.15	-95.26	-60.11	-13	-47.11
4	344.13	32.46	-95.26	-62.80	-13	-49.80
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	71.72	34.15	-95.26	-61.11	-13	-48.11
2	95.96	36.71	-95.26	-58.55	-13	-45.55
3	127.34	31.27	-95.26	-63.99	-13	-50.99
4	237.27	36.15	-95.26	-59.11	-13	-46.11

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 1513	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	88.8	36.18	-95.26	-59.08	-13	-46.08
2	236.91	36.2	-95.26	-59.06	-13	-46.06
3	287	33.66	-95.26	-61.60	-13	-48.60
4	347.54	31.86	-95.26	-63.40	-13	-50.40
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	69.5	31.81	-95.26	-63.45	-13	-50.45
2	95.71	33.47	-95.26	-61.79	-13	-48.79
3	127.79	27.92	-95.26	-67.34	-13	-54.34
4	239.76	32.62	-95.26	-62.64	-13	-49.64

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

LTE Band 4: 1.4MHz

Mode	TX channel 19957	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	85.43	36.37	-95.26	-58.89	-13	-45.89
2	136.76	43.91	-95.26	-51.35	-13	-38.35
3	290.4	48.54	-95.26	-46.72	-13	-33.72
4	342.13	45.78	-95.26	-49.48	-13	-36.48
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	42.91	30.62	-95.26	-64.64	-13	-51.64
2	96.27	34.26	-95.26	-61.00	-13	-48.00
3	127.37	27.13	-95.26	-68.13	-13	-55.13
4	239.37	31.74	-95.26	-63.52	-13	-50.52

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.88	35.32	-95.26	-59.94	-13	-46.94
2	135.82	37.85	-95.26	-57.41	-13	-44.41
3	288.83	37.82	-95.26	-57.44	-13	-44.44
4	347.64	31.4	-95.26	-63.86	-13	-50.86
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.54	30.88	-95.26	-64.38	-13	-51.38
2	90.31	35	-95.26	-60.26	-13	-47.26
3	129.83	26.5	-95.26	-68.76	-13	-55.76
4	237.67	31.03	-95.26	-64.23	-13	-51.23

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20393	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	83.28	34.98	-95.26	-60.28	-13	-47.28
2	136.52	36.69	-95.26	-58.57	-13	-45.57
3	293	37.48	-95.26	-57.78	-13	-44.78
4	343.76	31.71	-95.26	-63.55	-13	-50.55
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	45.83	31.07	-95.26	-64.19	-13	-51.19
2	91.7	35.64	-95.26	-59.62	-13	-46.62
3	124.84	25.37	-95.26	-69.89	-13	-56.89
4	237.36	31.5	-95.26	-63.76	-13	-50.76

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

LTE Band 4: 3MHz

Mode	TX channel 19965	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	87.49	34.58	-95.26	-60.68	-13	-47.68
2	137	37.78	-95.26	-57.48	-13	-44.48
3	291.58	35.49	-95.26	-59.77	-13	-46.77
4	347.44	33.37	-95.26	-61.89	-13	-48.89
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	45.63	32.36	-95.26	-62.90	-13	-49.90
2	89.69	32.39	-95.26	-62.87	-13	-49.87
3	129.77	26.95	-95.26	-68.31	-13	-55.31
4	237.4	29.88	-95.26	-65.38	-13	-52.38

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	85.55	35.64	-95.26	-59.62	-13	-46.62
2	136.58	38.48	-95.26	-56.78	-13	-43.78
3	290.57	37.87	-95.26	-57.39	-13	-44.39
4	345.51	29.91	-95.26	-65.35	-13	-52.35
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	44.73	32.25	-95.26	-63.01	-13	-50.01
2	91.83	34.43	-95.26	-60.83	-13	-47.83
3	129.05	27.74	-95.26	-67.52	-13	-54.52
4	236.65	32.69	-95.26	-62.57	-13	-49.57

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20385	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	83.73	36.9	-95.26	-58.36	-13	-45.36
2	137.89	38.18	-95.26	-57.08	-13	-44.08
3	292.02	36.83	-95.26	-58.43	-13	-45.43
4	343.77	30.72	-95.26	-64.54	-13	-51.54
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.8	32.05	-95.26	-63.21	-13	-50.21
2	89.3	32.16	-95.26	-63.10	-13	-50.10
3	126.42	26.25	-95.26	-69.01	-13	-56.01
4	238.02	32.02	-95.26	-63.24	-13	-50.24

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

LTE Band 4: 5MHz

Mode	TX channel 19975	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	89.45	34.4	-95.26	-60.86	-13	-47.86
2	135.52	36.87	-95.26	-58.39	-13	-45.39
3	288.88	36.59	-95.26	-58.67	-13	-45.67
4	342.74	31.5	-95.26	-63.76	-13	-50.76
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	42.69	29.38	-95.26	-65.88	-13	-52.88
2	91.33	34.07	-95.26	-61.19	-13	-48.19
3	128.36	28.4	-95.26	-66.86	-13	-53.86
4	239.69	30.77	-95.26	-64.49	-13	-51.49

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	87.8	33.98	-95.26	-61.28	-13	-48.28
2	136.44	37.55	-95.26	-57.71	-13	-44.71
3	289.01	36.62	-95.26	-58.64	-13	-45.64
4	344.23	32.05	-95.26	-63.21	-13	-50.21
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	45.01	31.72	-95.26	-63.54	-13	-50.54
2	94.57	32.96	-95.26	-62.30	-13	-49.30
3	130.18	25.96	-95.26	-69.30	-13	-56.30
4	241.25	30.19	-95.26	-65.07	-13	-52.07

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20375	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	87.56	37.15	-95.26	-58.11	-13	-45.11
2	133.74	37.64	-95.26	-57.62	-13	-44.62
3	291.36	35.29	-95.26	-59.97	-13	-46.97
4	346.56	30.37	-95.26	-64.89	-13	-51.89
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	44.41	31.85	-95.26	-63.41	-13	-50.41
2	92.77	33.47	-95.26	-61.79	-13	-48.79
3	128.65	26.31	-95.26	-68.95	-13	-55.95
4	237.43	32.14	-95.26	-63.12	-13	-50.12

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

LTE Band 4: 10MHz

Mode	TX channel 20000	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.42	36.12	-95.26	-59.14	-13	-46.14
2	135.22	37.21	-95.26	-58.05	-13	-45.05
3	287.22	38.77	-95.26	-56.49	-13	-43.49
4	345.15	30.89	-95.26	-64.37	-13	-51.37
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	46.74	32.05	-95.26	-63.21	-13	-50.21
2	90.91	34.29	-95.26	-60.97	-13	-47.97
3	129.49	27.58	-95.26	-67.68	-13	-54.68
4	236.44	31.99	-95.26	-63.27	-13	-50.27

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	82.55	36.11	-95.26	-59.15	-13	-46.15
2	136.23	38.58	-95.26	-56.68	-13	-43.68
3	288.23	38.4	-95.26	-56.86	-13	-43.86
4	345.92	32.11	-95.26	-63.15	-13	-50.15
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	44.51	31.02	-95.26	-64.24	-13	-51.24
2	95.1	33.1	-95.26	-62.16	-13	-49.16
3	126.79	27.17	-95.26	-68.09	-13	-55.09
4	237.72	30.97	-95.26	-64.29	-13	-51.29

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20350	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	86.02	35.2	-95.26	-60.06	-13	-47.06
2	138.98	37.88	-95.26	-57.38	-13	-44.38
3	292.22	36.28	-95.26	-58.98	-13	-45.98
4	344.72	33.1	-95.26	-62.16	-13	-49.16
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.87	31.27	-95.26	-63.99	-13	-50.99
2	91.82	34.42	-95.26	-60.84	-13	-47.84
3	127.12	27.19	-95.26	-68.07	-13	-55.07
4	241.56	31.43	-95.26	-63.83	-13	-50.83

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

LTE Band 4: 15MHz

Mode	TX channel 20025	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	83.53	35.74	-95.26	-59.52	-13	-46.52
2	135.06	38.19	-95.26	-57.07	-13	-44.07
3	291.93	35.63	-95.26	-59.63	-13	-46.63
4	346.66	33.15	-95.26	-62.11	-13	-49.11
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	45.72	31.79	-95.26	-63.47	-13	-50.47
2	91.29	32.53	-95.26	-62.73	-13	-49.73
3	132.06	25.4	-95.26	-69.86	-13	-56.86
4	237.13	30.49	-95.26	-64.77	-13	-51.77

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	85.27	35.94	-95.26	-59.32	-13	-46.32
2	137.68	36.02	-95.26	-59.24	-13	-46.24
3	288.45	37.62	-95.26	-57.64	-13	-44.64
4	346.14	30.71	-95.26	-64.55	-13	-51.55
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.4	30.92	-95.26	-64.34	-13	-51.34
2	96.01	34.76	-95.26	-60.50	-13	-47.50
3	128.36	26.27	-95.26	-68.99	-13	-55.99
4	241.21	30.05	-95.26	-65.21	-13	-52.21

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20325	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	83.26	36.34	-95.26	-58.92	-13	-45.92
2	137.81	35.94	-95.26	-59.32	-13	-46.32
3	291.33	36.56	-95.26	-58.70	-13	-45.70
4	344.4	31.89	-95.26	-63.37	-13	-50.37
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.69	30.9	-95.26	-64.36	-13	-51.36
2	91.67	32.7	-95.26	-62.56	-13	-49.56
3	128.56	28.63	-95.26	-66.63	-13	-53.63
4	239.49	30.85	-95.26	-64.41	-13	-51.41

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

LTE Band 4: 20MHz

Mode	TX channel 20050	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	86.66	37.32	-95.26	-57.94	-13	-44.94
2	137.66	37.92	-95.26	-57.34	-13	-44.34
3	290.87	36.25	-95.26	-59.01	-13	-46.01
4	349.15	30.68	-95.26	-64.58	-13	-51.58
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	42.07	31.53	-95.26	-63.73	-13	-50.73
2	92.1	34.69	-95.26	-60.57	-13	-47.57
3	128.95	26.96	-95.26	-68.30	-13	-55.30
4	241.46	32.83	-95.26	-62.43	-13	-49.43

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20175	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.29	33.83	-95.26	-61.43	-13	-48.43
2	139.7	37.87	-95.26	-57.39	-13	-44.39
3	290.03	36.12	-95.26	-59.14	-13	-46.14
4	342.75	31.75	-95.26	-63.51	-13	-50.51
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	44.69	31.77	-95.26	-63.49	-13	-50.49
2	90.83	33.04	-95.26	-62.22	-13	-49.22
3	129.29	26.66	-95.26	-68.60	-13	-55.60
4	241.88	30.54	-95.26	-64.72	-13	-51.72

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 20300	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	85.05	35.14	-95.26	-60.12	-13	-47.12
2	134.23	39.59	-95.26	-55.67	-13	-42.67
3	289.28	35.86	-95.26	-59.40	-13	-46.40
4	345.87	32.85	-95.26	-62.41	-13	-49.41
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	43.25	29.74	-95.26	-65.52	-13	-52.52
2	91.88	34.7	-95.26	-60.56	-13	-47.56
3	125.9	27.59	-95.26	-67.67	-13	-54.67
4	236.3	31.01	-95.26	-64.25	-13	-51.25

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

LTE Band 7: 5MHz

Mode	TX channel 20775	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	84.9	27.57	-95.26	-67.69	-25	-42.69
2	134.47	28.91	-95.26	-66.35	-25	-41.35
3	291.44	27.97	-95.26	-67.29	-25	-42.29
4	345.05	22.27	-95.26	-72.99	-25	-47.99
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	44.88	3.25	-95.26	-92.01	-25	-67.01
2	96.89	12.92	-95.26	-82.34	-25	-57.34
3	124.21	6.96	-95.26	-88.30	-25	-63.30
4	242.99	9.18	-95.26	-86.08	-25	-61.08

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 21100	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	86.34	29.99	-95.26	-65.27	-25	-40.27
2	140.03	30.66	-95.26	-64.60	-25	-39.60
3	294.88	29.49	-95.26	-65.77	-25	-40.77
4	342.35	26.23	-95.26	-69.03	-25	-44.03
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	40.57	6.05	-95.26	-89.21	-25	-64.21
2	99	12.78	-95.26	-82.48	-25	-57.48
3	123.32	7.83	-95.26	-87.43	-25	-62.43
4	236.82	11.38	-95.26	-83.88	-25	-58.88

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @ 3m.

Mode	TX channel 21425	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	88.83	25.32	-95.26	-69.94	-25	-44.94
2	138.59	29.19	-95.26	-66.07	-25	-41.07
3	290.5	29.51	-95.26	-65.75	-25	-40.75
4	347.32	25.73	-95.26	-69.53	-25	-44.53
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμ V/m)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	45.47	5.52	-95.26	-89.74	-25	-64.74
2	97.46	11.09	-95.26	-84.17	-25	-59.17
3	121.49	7.79	-95.26	-87.47	-25	-62.47
4	238.98	11.02	-95.26	-84.24	-25	-59.24

Remarks:

1. FolloANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dBμ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @ 3m.