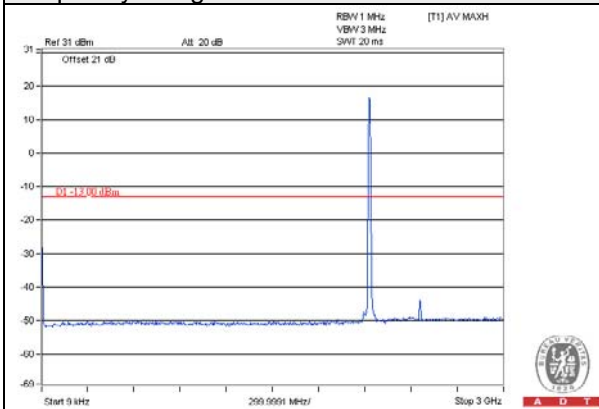


Frequency 2132.5

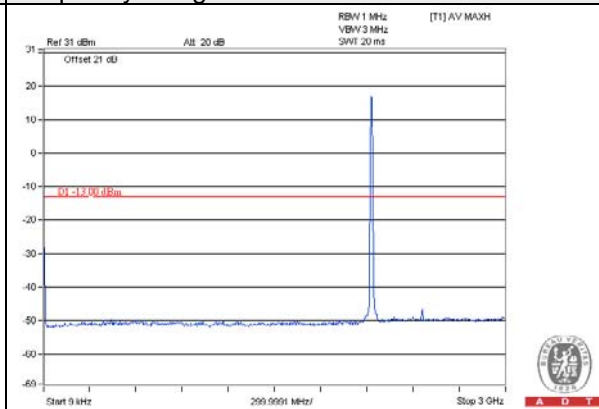
Chain 0

Frequency Range : 9kHz~3GHz

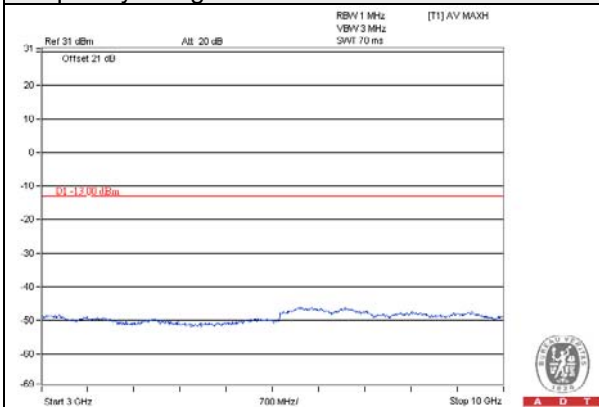


Chain 1

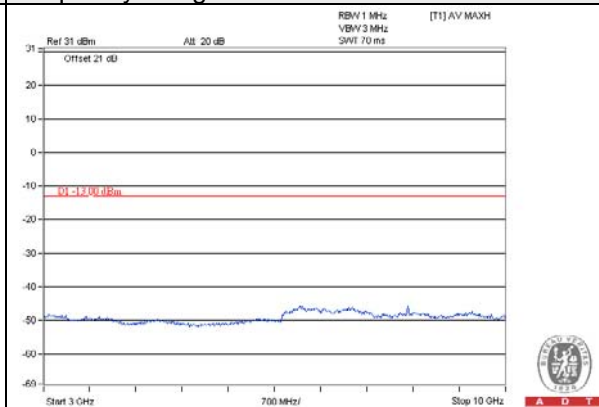
Frequency Range : 9kHz~3GHz



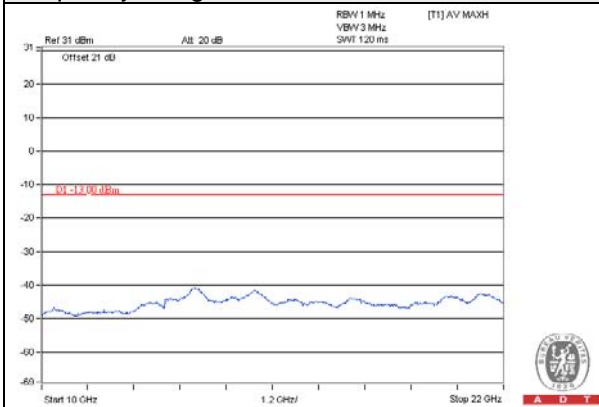
Frequency Range : 3GHz~10GHz



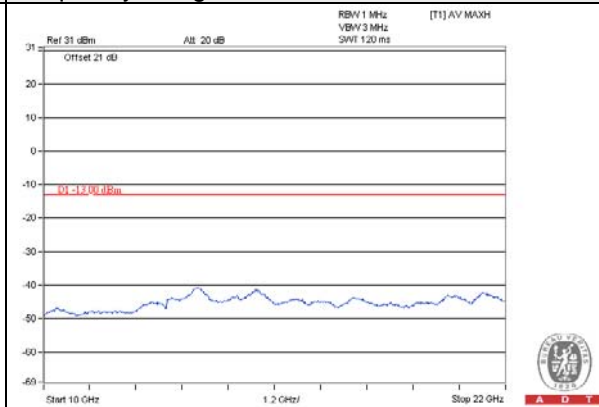
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



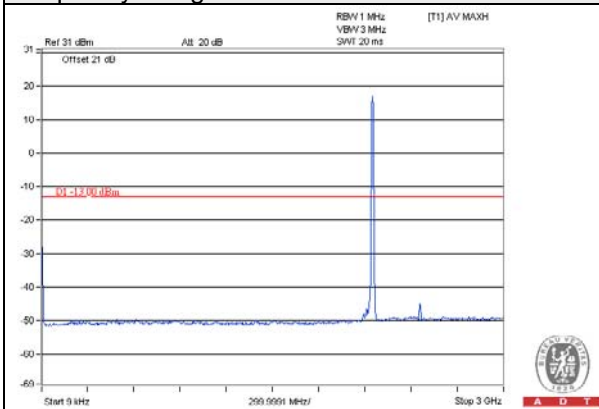
Frequency Range : 10GHz~22GHz



Frequency 2150.0

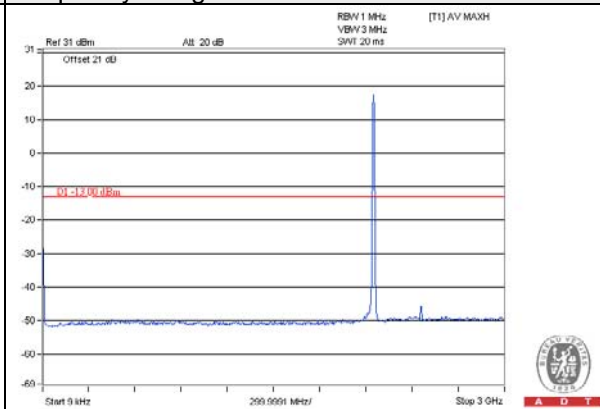
Chain 0

Frequency Range : 9kHz~3GHz

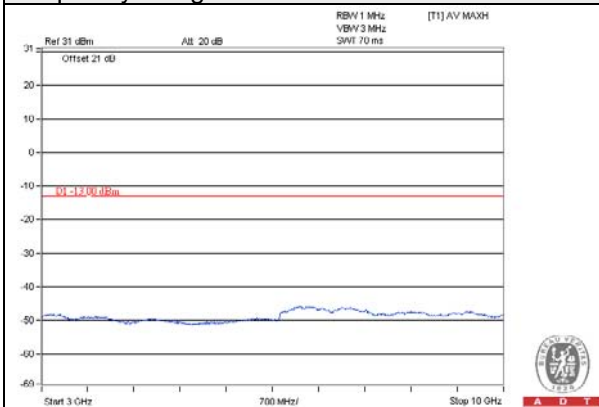


Chain 1

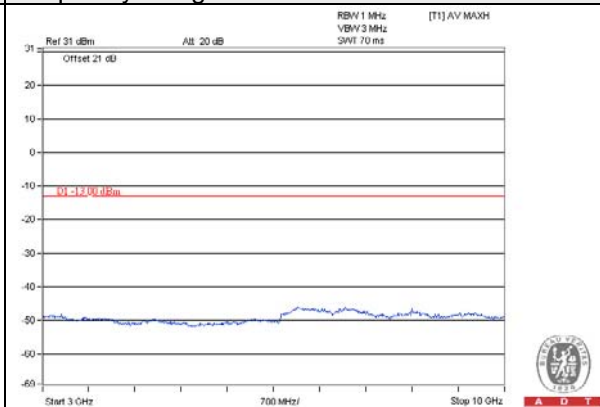
Frequency Range : 9kHz~3GHz



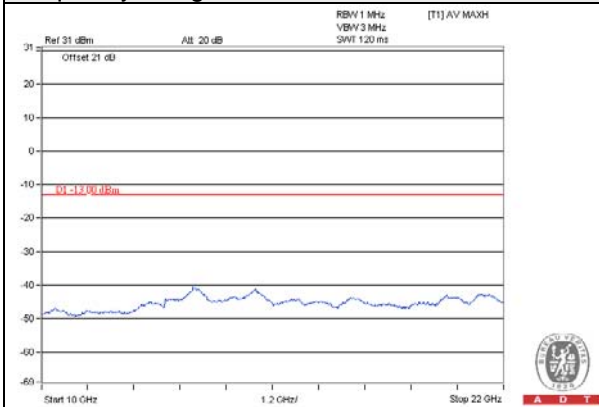
Frequency Range : 3GHz~10GHz



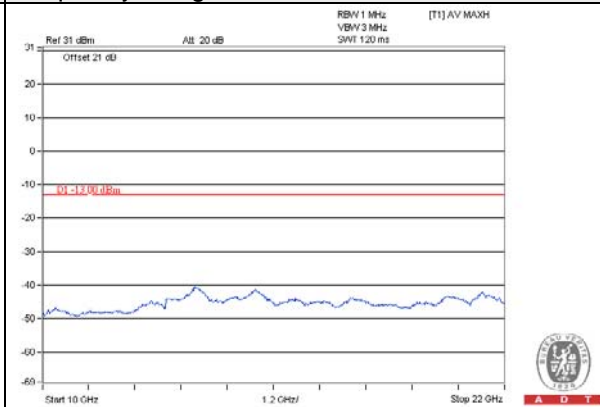
Frequency Range : 3GHz~10GHz



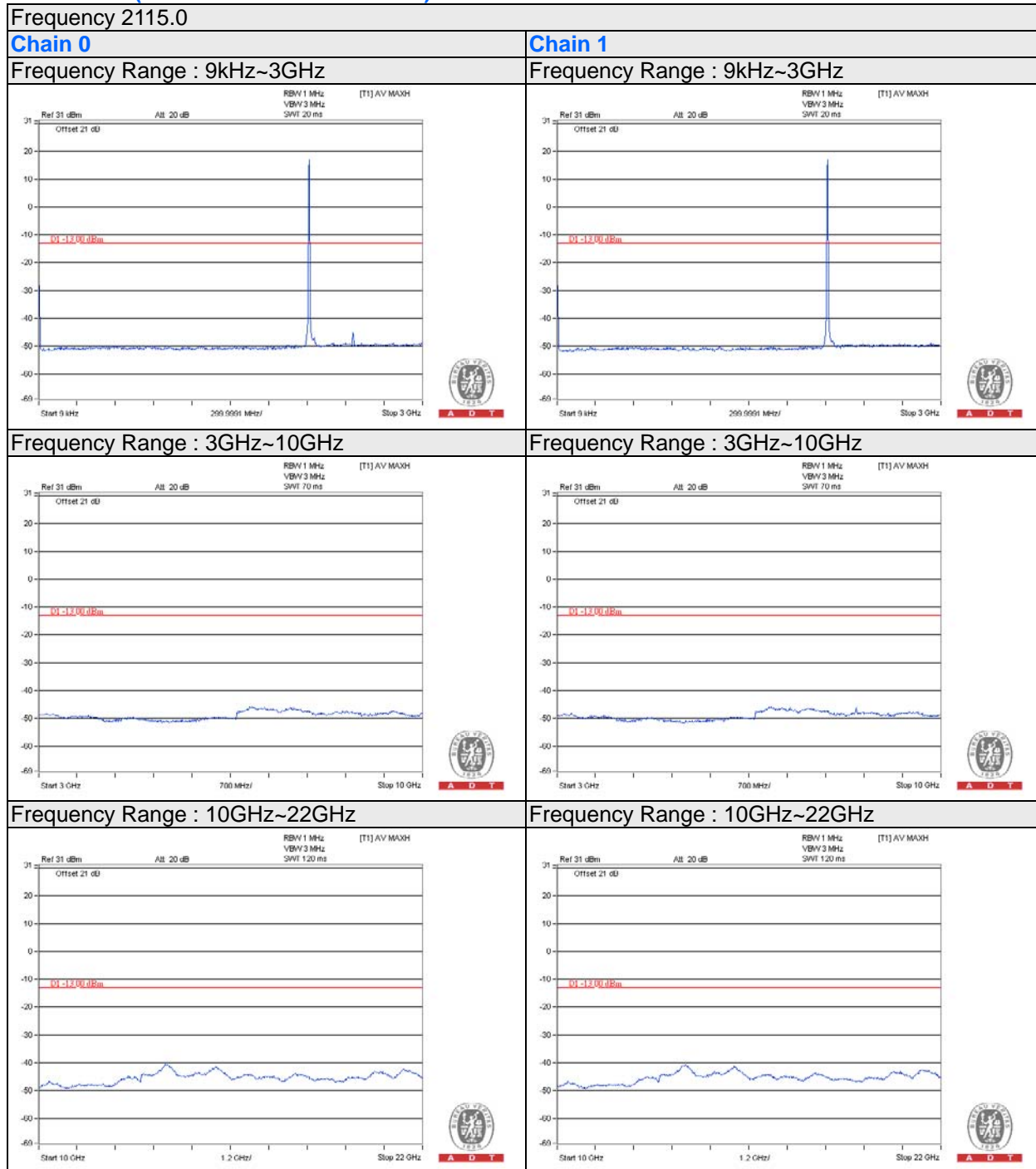
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



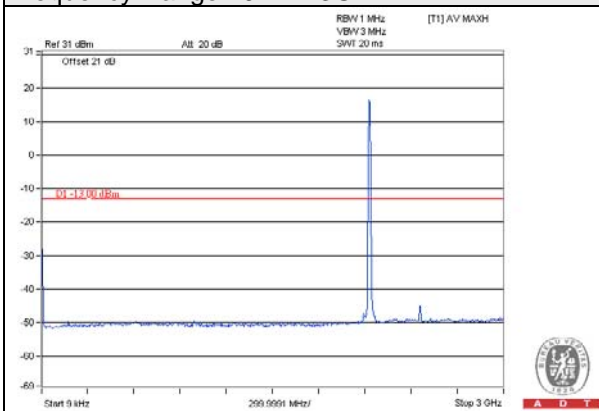
LTE Band 4 (Channel Bandwidth 10MHz): 64QAM



Frequency 2132.5

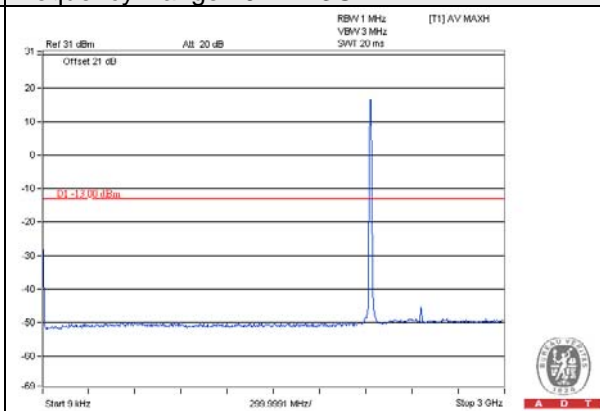
Chain 0

Frequency Range : 9kHz~3GHz

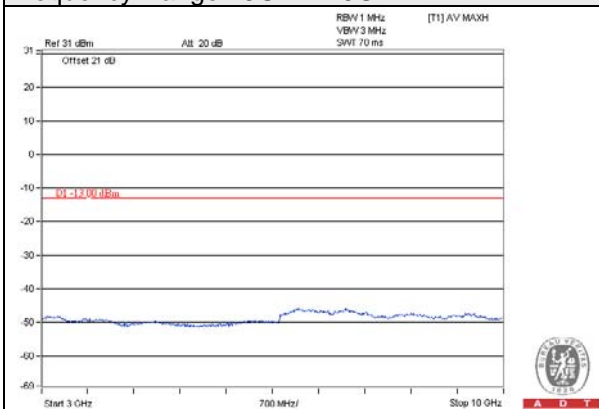


Chain 1

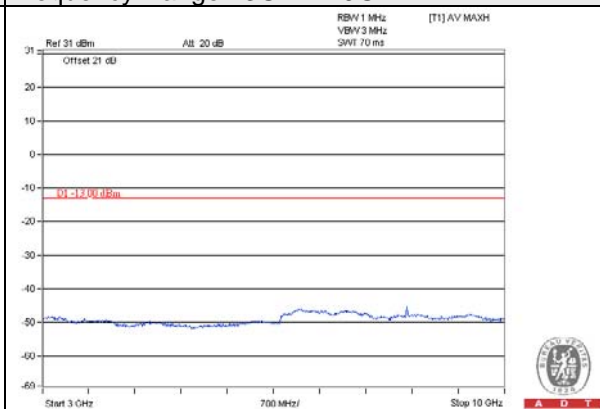
Frequency Range : 9kHz~3GHz



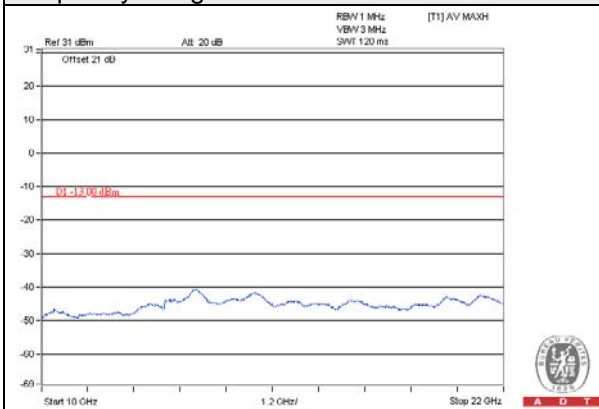
Frequency Range : 3GHz~10GHz



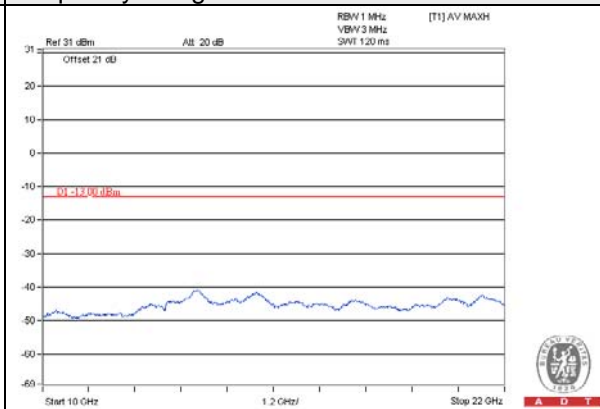
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



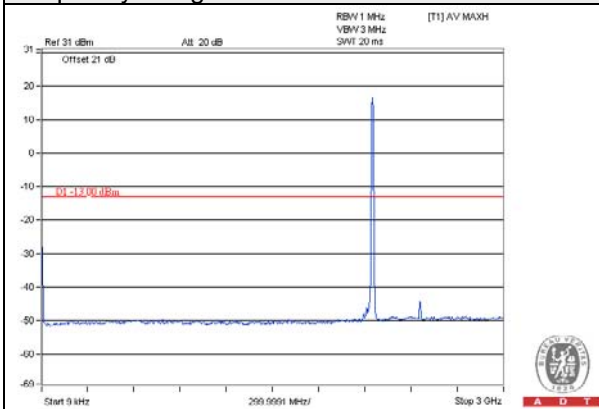
Frequency Range : 10GHz~22GHz



Frequency 2150.0

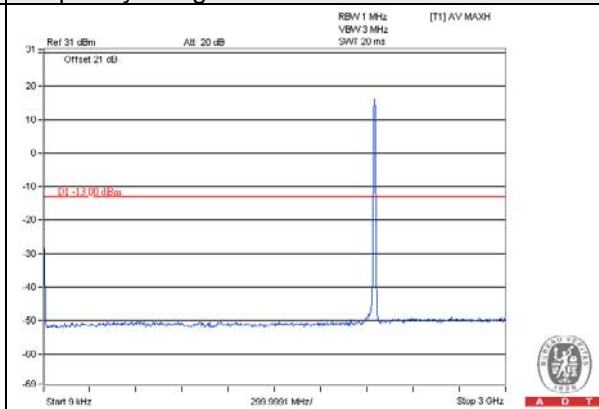
Chain 0

Frequency Range : 9kHz~3GHz

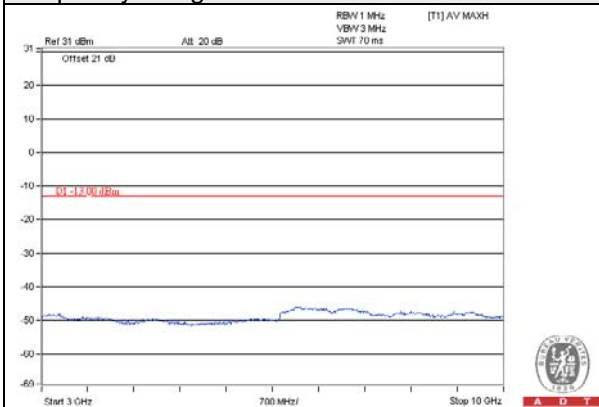


Chain 1

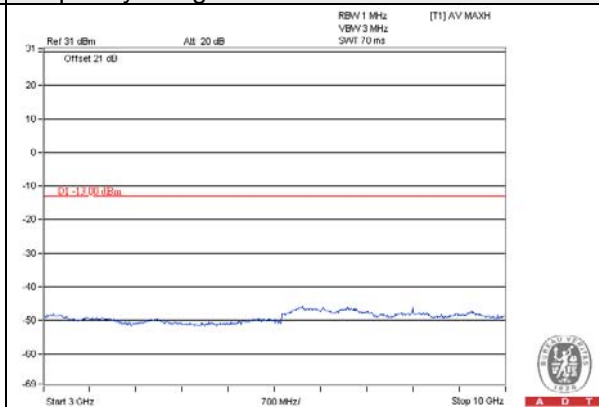
Frequency Range : 9kHz~3GHz



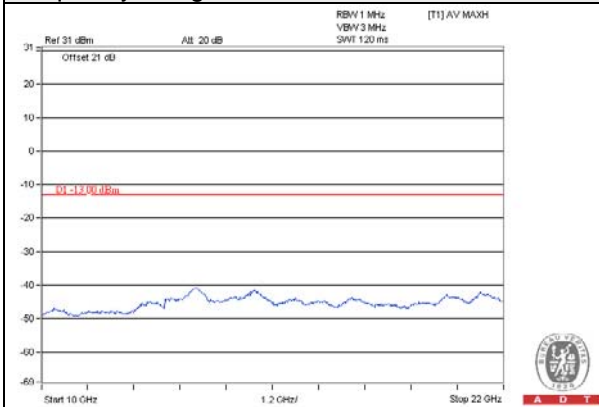
Frequency Range : 3GHz~10GHz



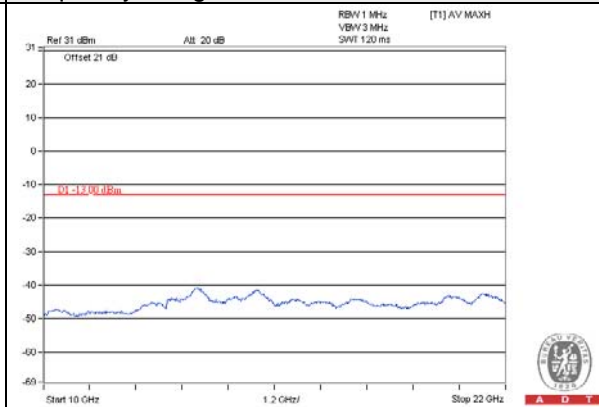
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



LTE Band 4 (Channel Bandwidth 15MHz): QPSK

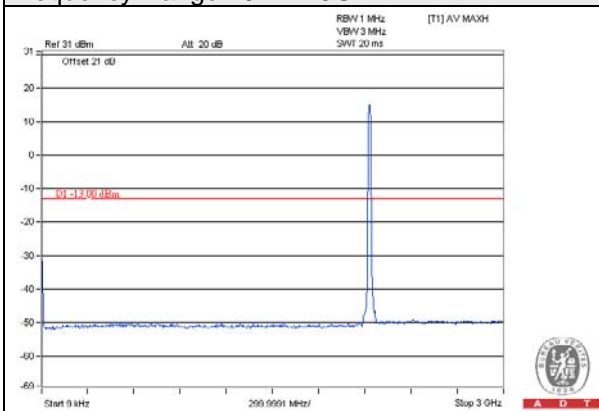
Frequency 2117.5



Frequency 2132.5

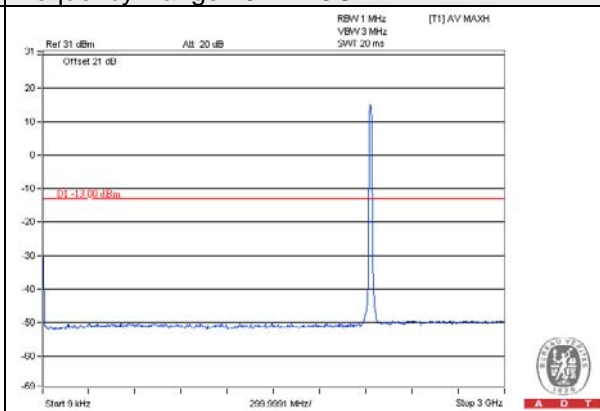
Chain 0

Frequency Range : 9kHz~3GHz

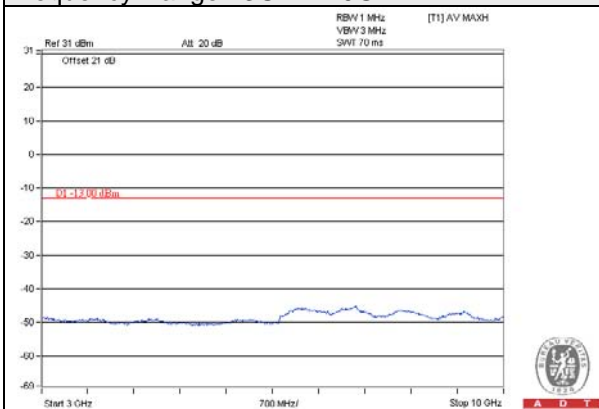


Chain 1

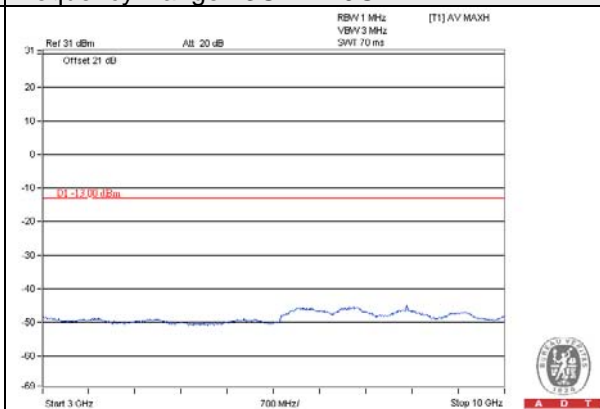
Frequency Range : 9kHz~3GHz



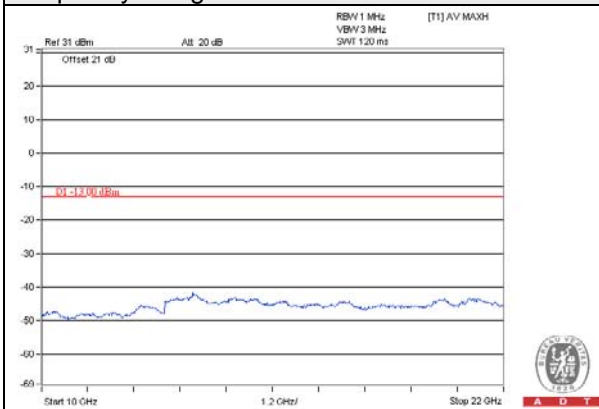
Frequency Range : 3GHz~10GHz



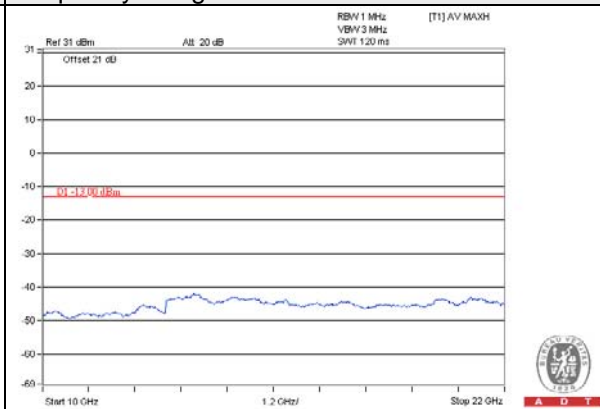
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



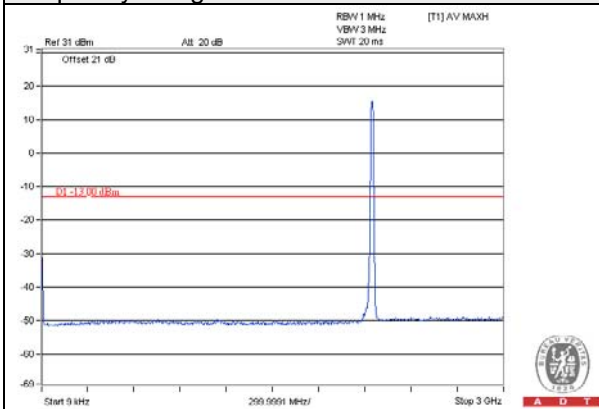
Frequency Range : 10GHz~22GHz



Frequency 2147.5

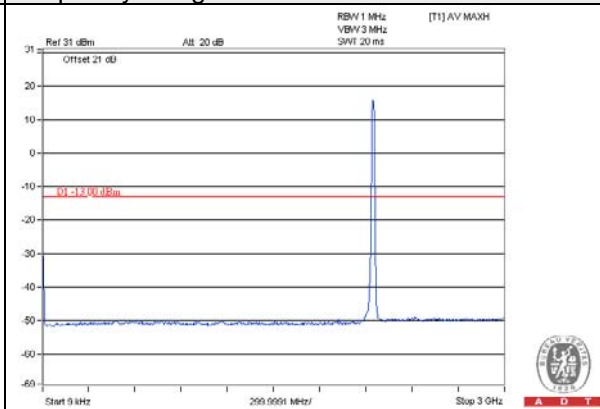
Chain 0

Frequency Range : 9kHz~3GHz

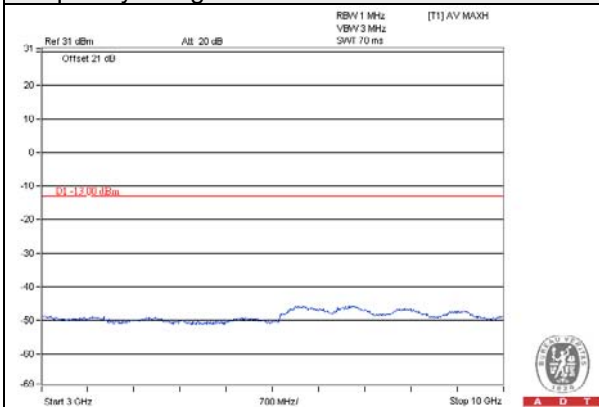


Chain 1

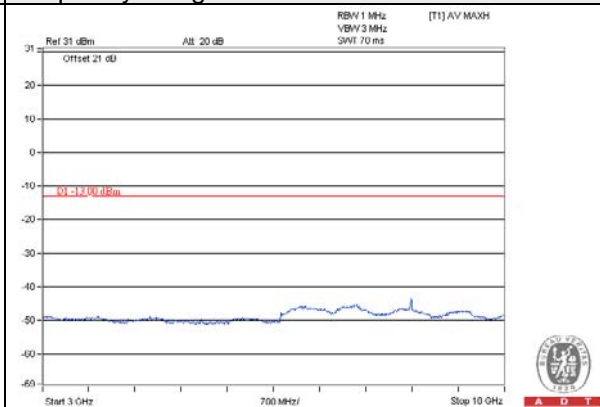
Frequency Range : 9kHz~3GHz



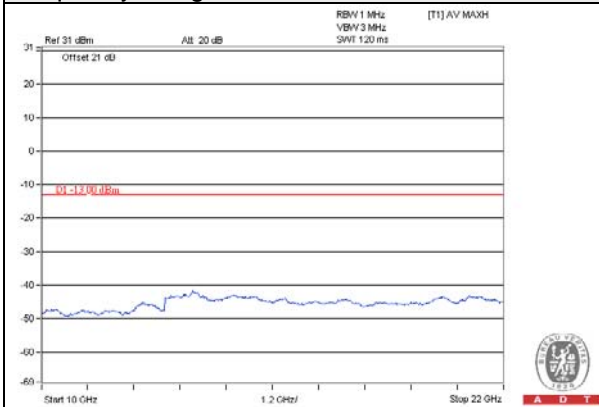
Frequency Range : 3GHz~10GHz



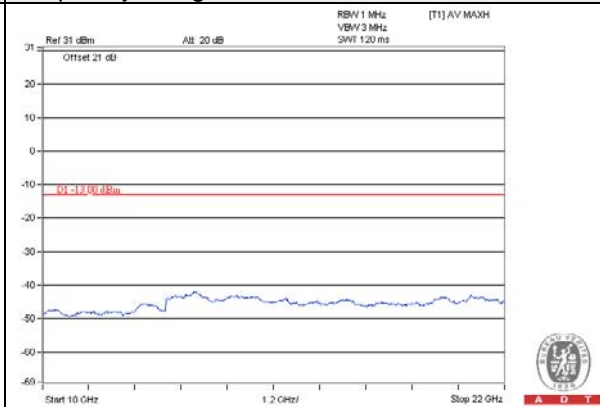
Frequency Range : 3GHz~10GHz



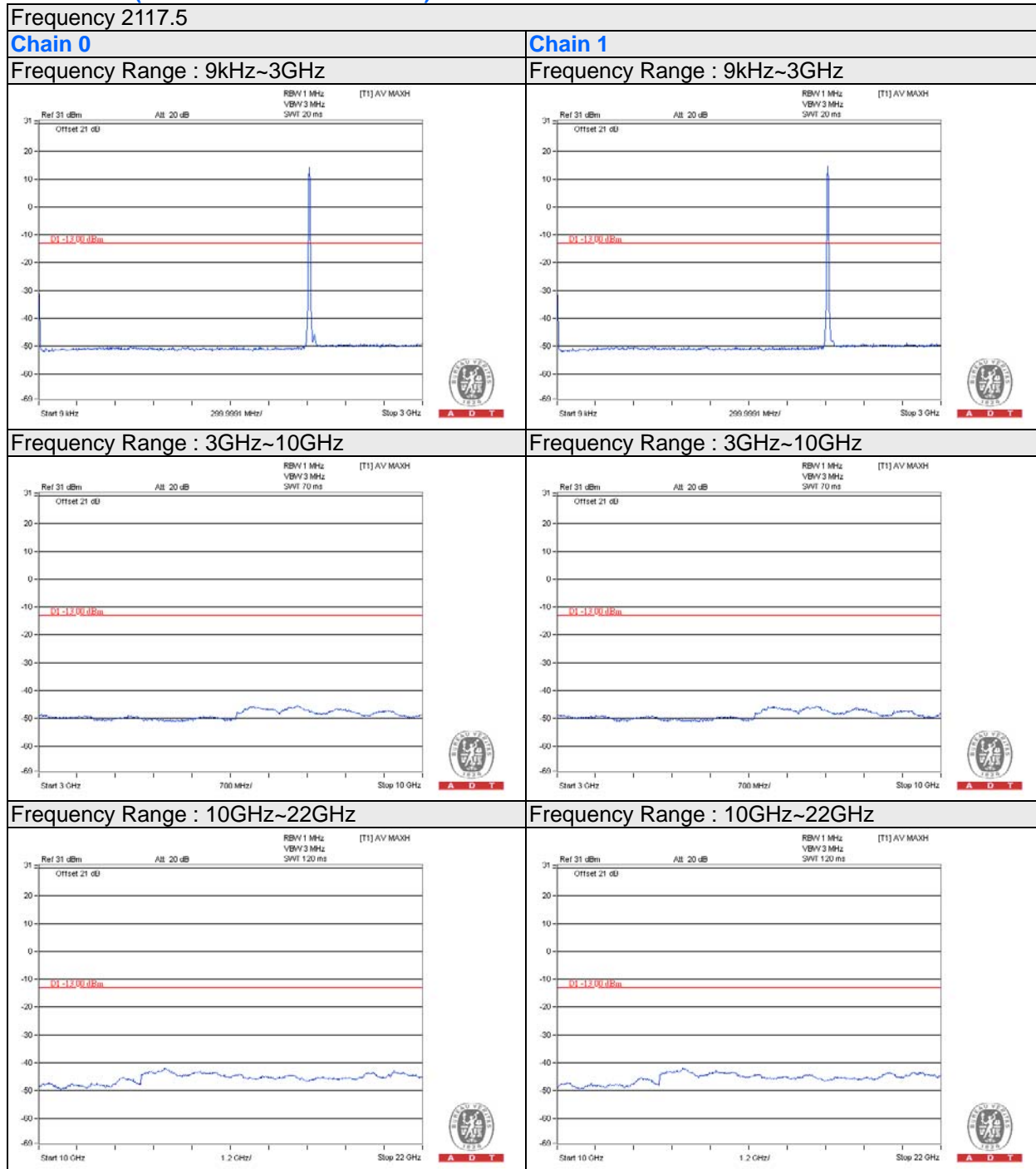
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



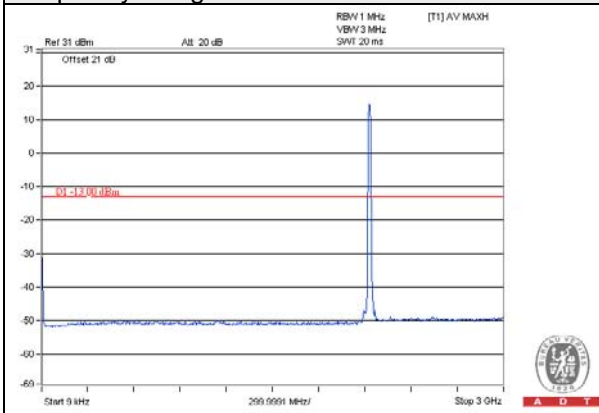
LTE Band 4 (Channel Bandwidth 15MHz): 16QAM



Frequency 2132.5

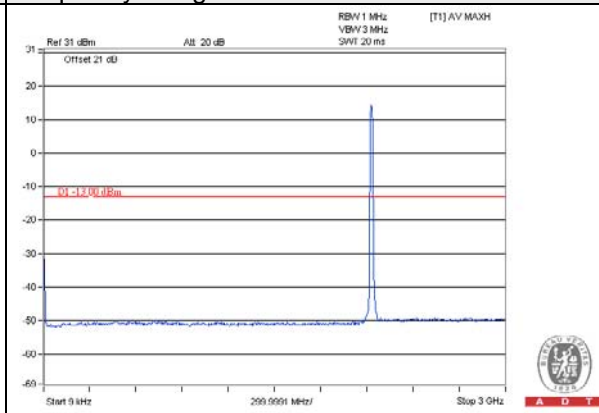
Chain 0

Frequency Range : 9kHz~3GHz

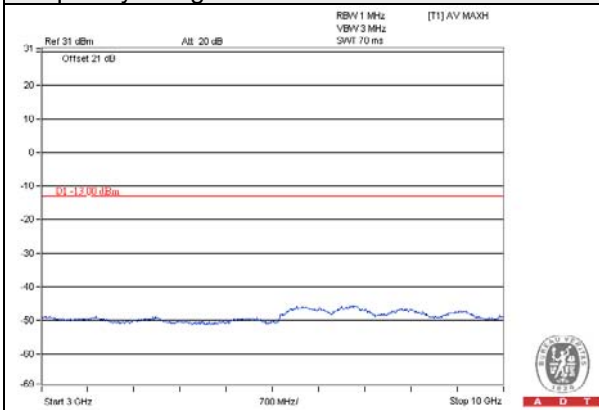


Chain 1

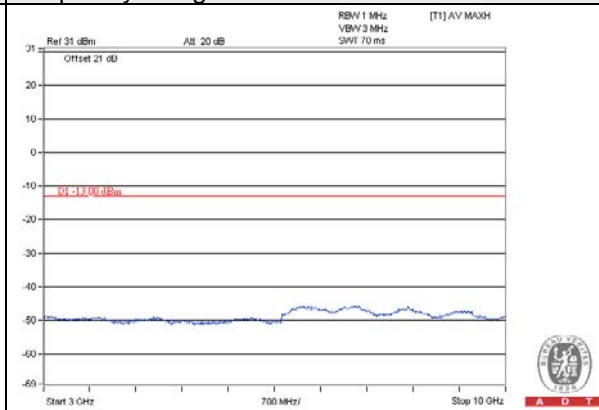
Frequency Range : 9kHz~3GHz



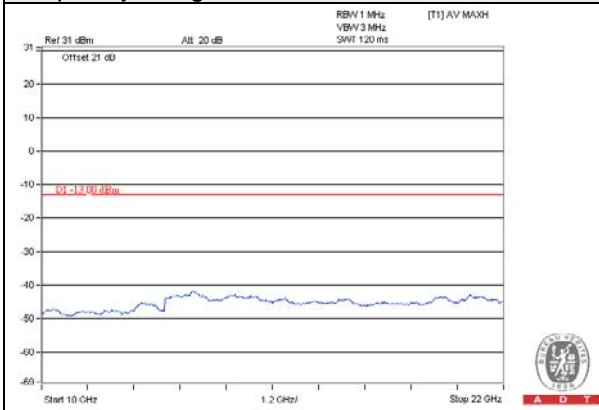
Frequency Range : 3GHz~10GHz



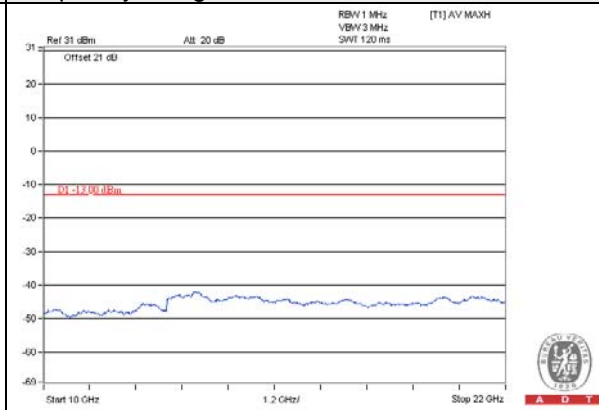
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



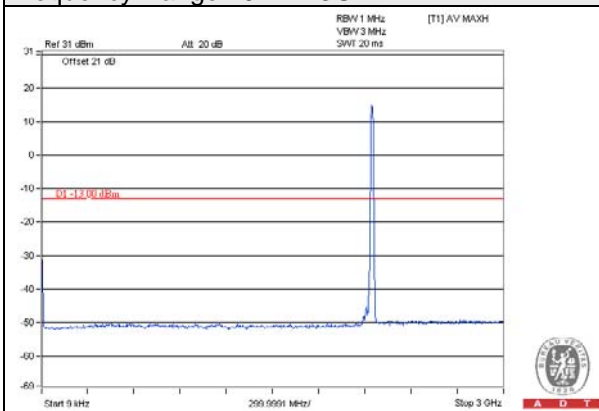
Frequency Range : 10GHz~22GHz



Frequency 2147.5

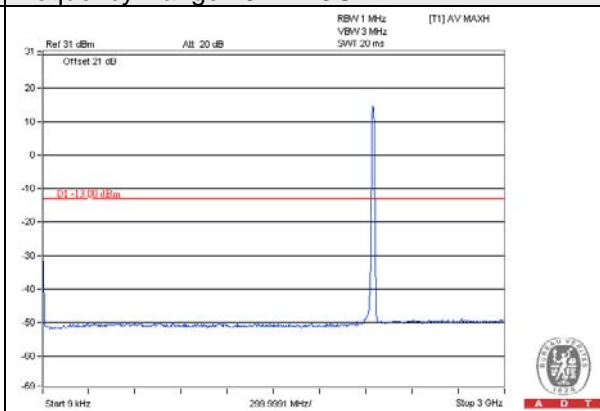
Chain 0

Frequency Range : 9kHz~3GHz

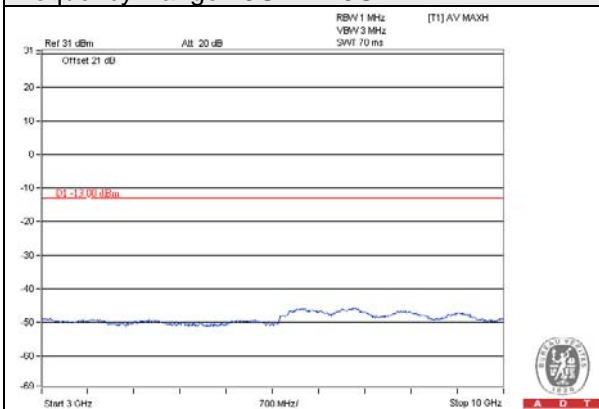


Chain 1

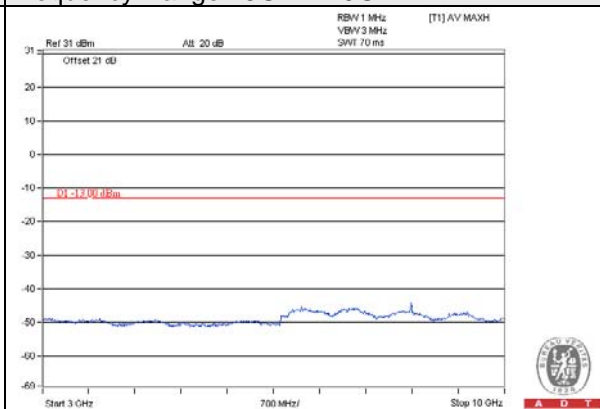
Frequency Range : 9kHz~3GHz



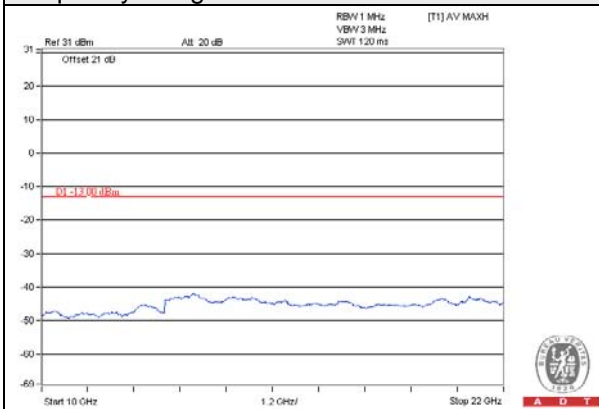
Frequency Range : 3GHz~10GHz



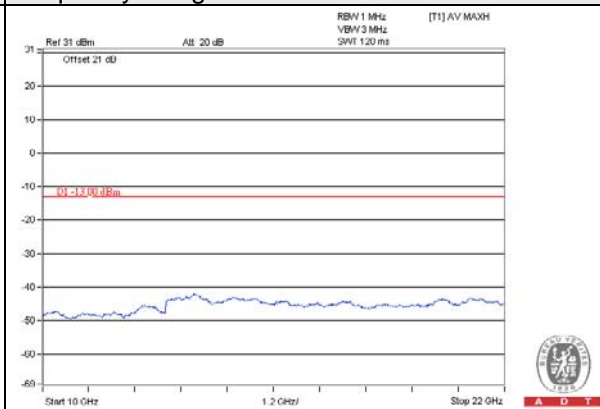
Frequency Range : 3GHz~10GHz



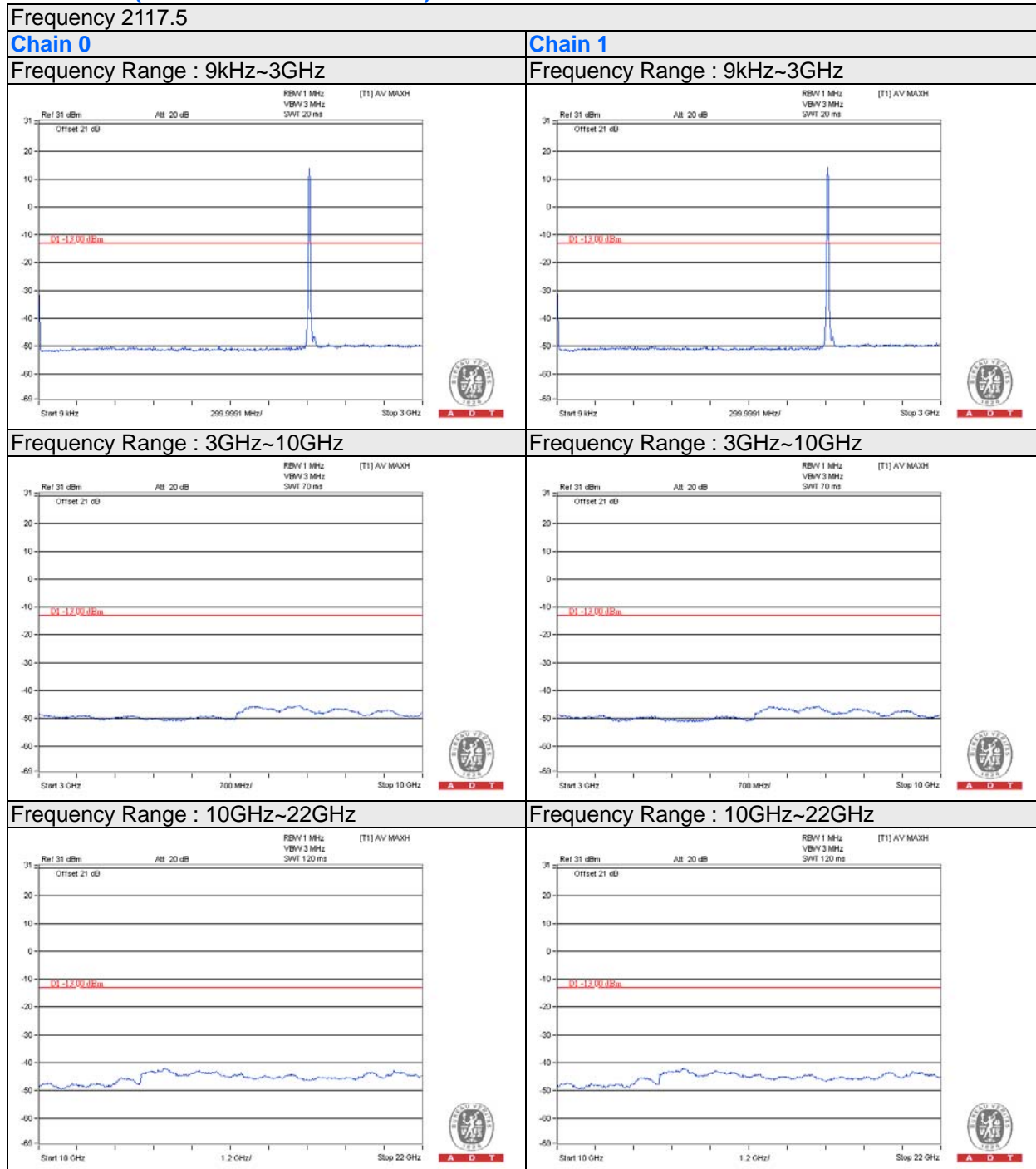
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



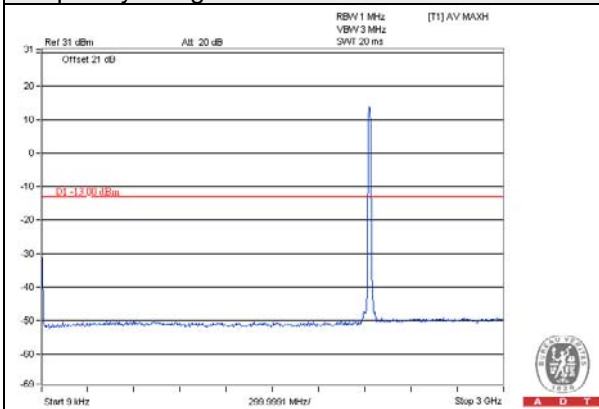
LTE Band 4 (Channel Bandwidth 15MHz): 64QAM



Frequency 2132.5

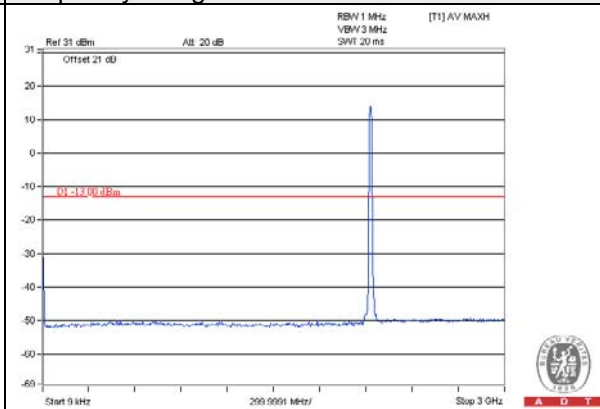
Chain 0

Frequency Range : 9kHz~3GHz

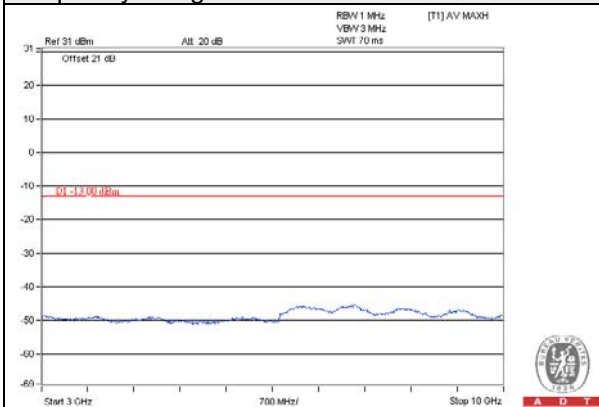


Chain 1

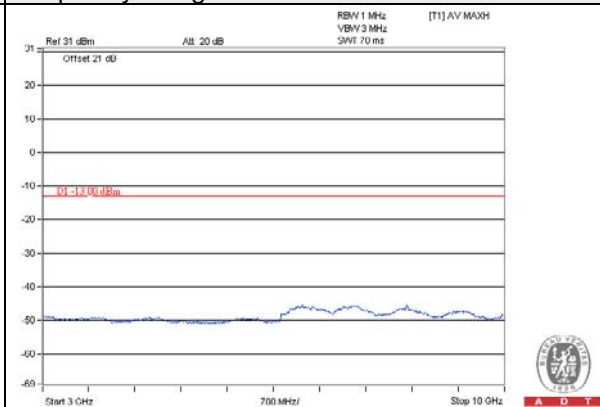
Frequency Range : 9kHz~3GHz



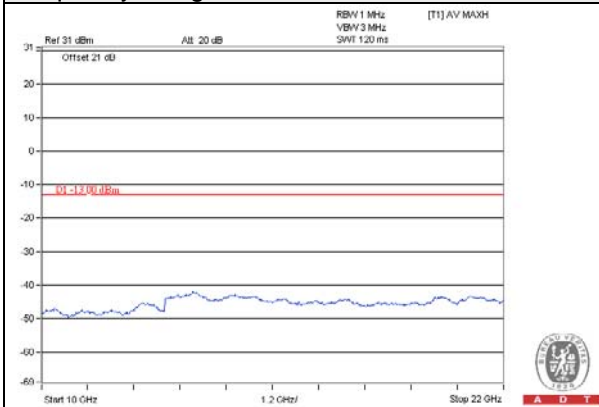
Frequency Range : 3GHz~10GHz



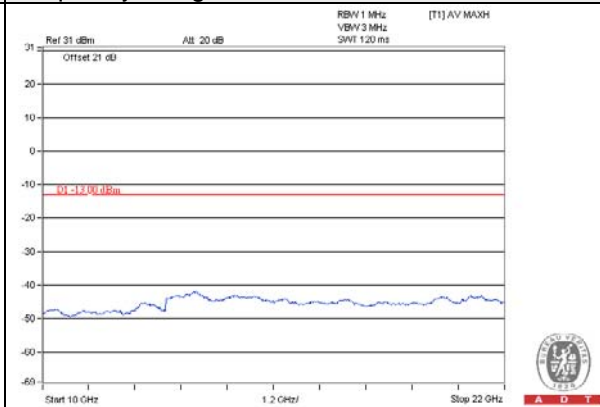
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



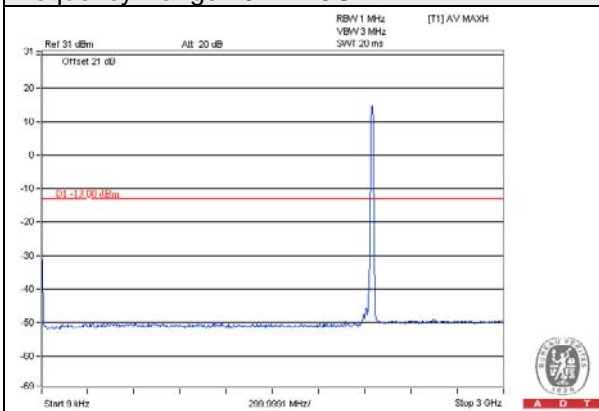
Frequency Range : 10GHz~22GHz



Frequency 2147.5

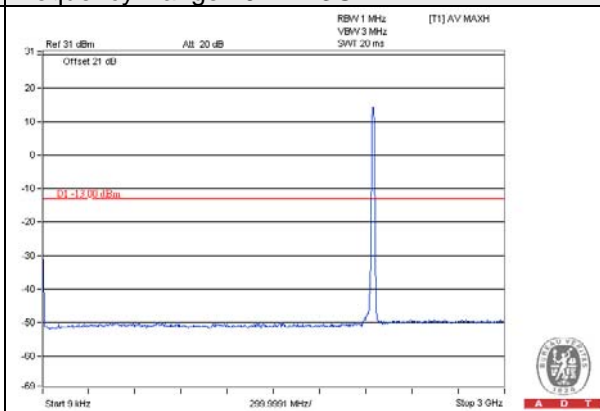
Chain 0

Frequency Range : 9kHz~3GHz

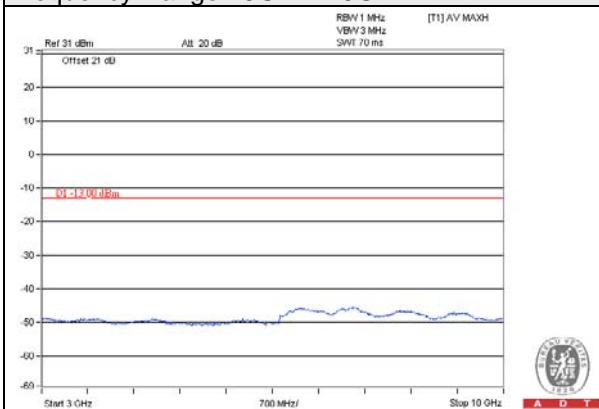


Chain 1

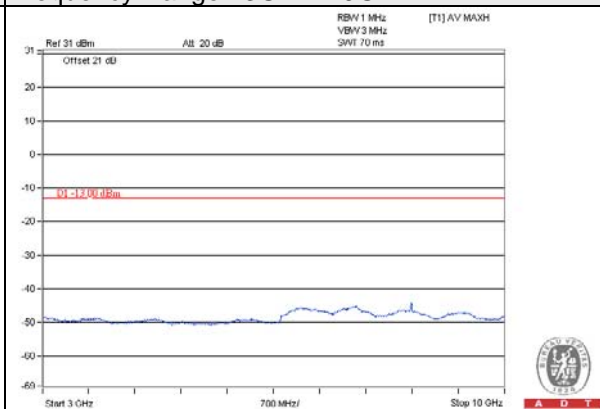
Frequency Range : 9kHz~3GHz



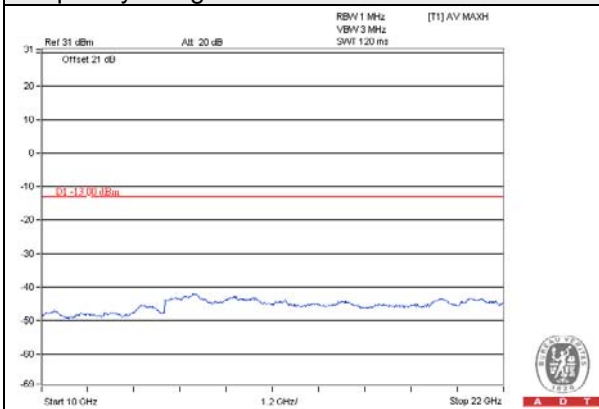
Frequency Range : 3GHz~10GHz



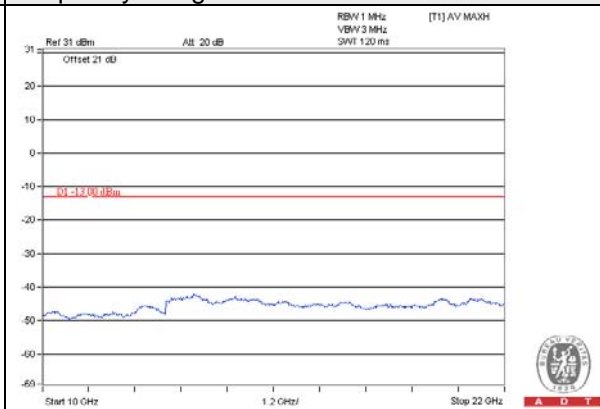
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz

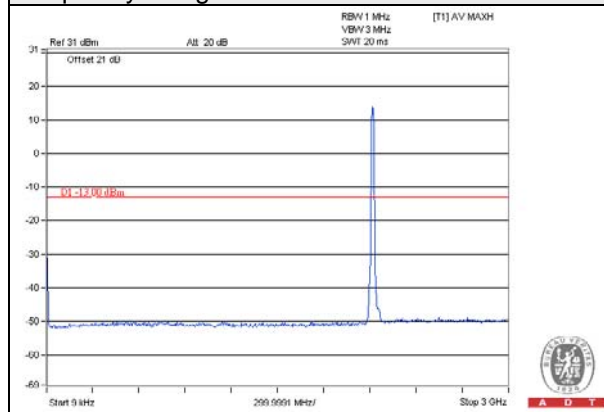


LTE Band 4 (Channel Bandwidth 20MHz): QPSK

Frequency 2120.0

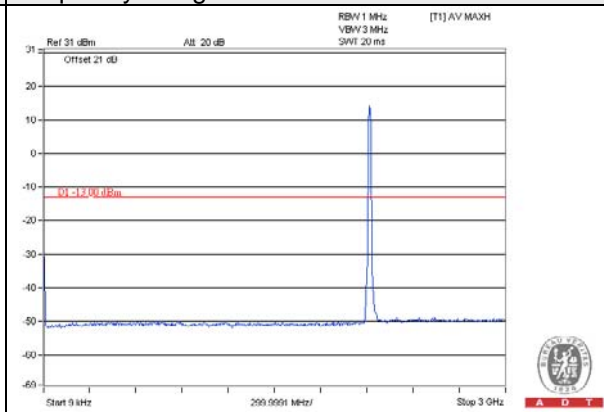
Chain 0

Frequency Range : 9kHz~3GHz

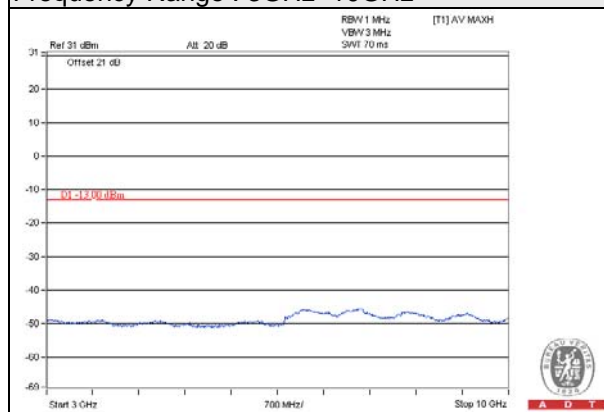


Chain 1

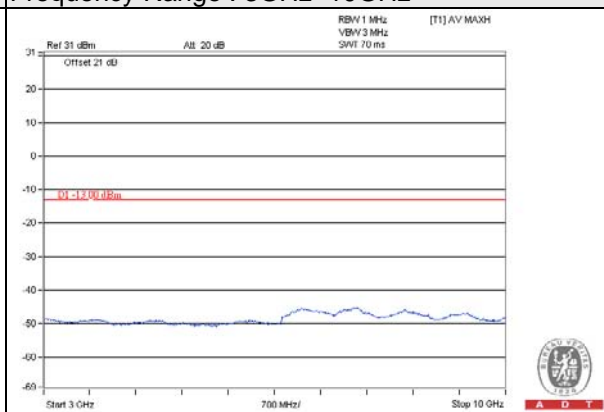
Frequency Range : 9kHz~3GHz



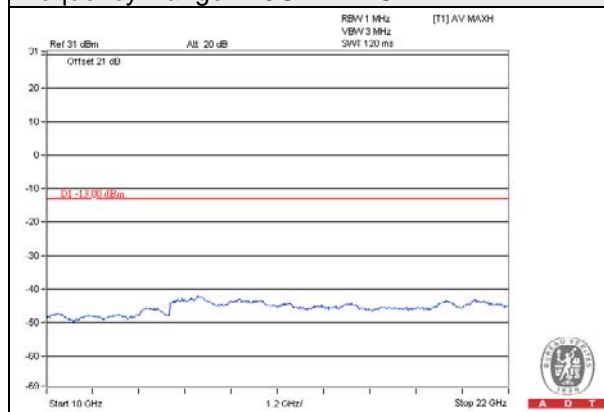
Frequency Range : 3GHz~10GHz



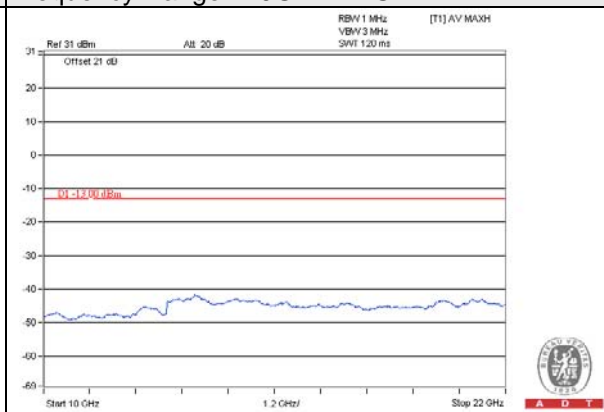
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



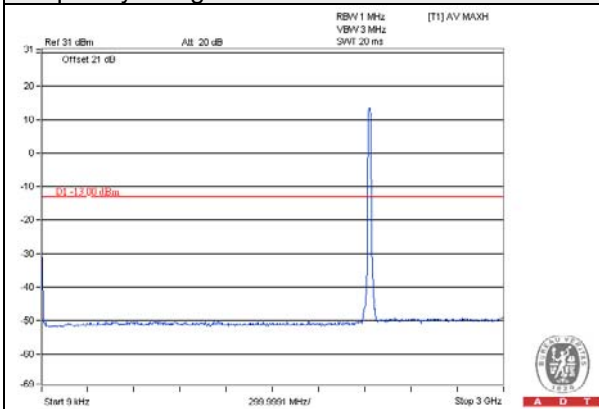
Frequency Range : 10GHz~22GHz



Frequency 2132.5

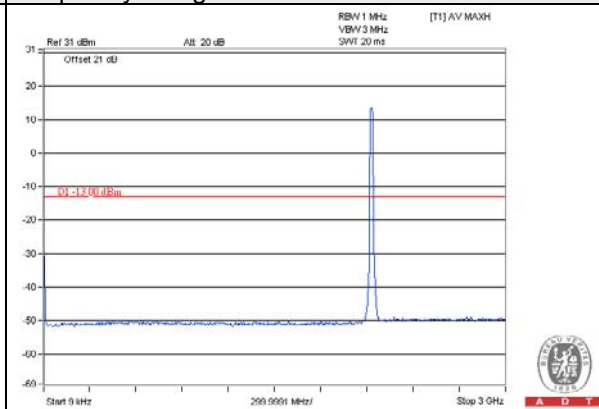
Chain 0

Frequency Range : 9kHz~3GHz

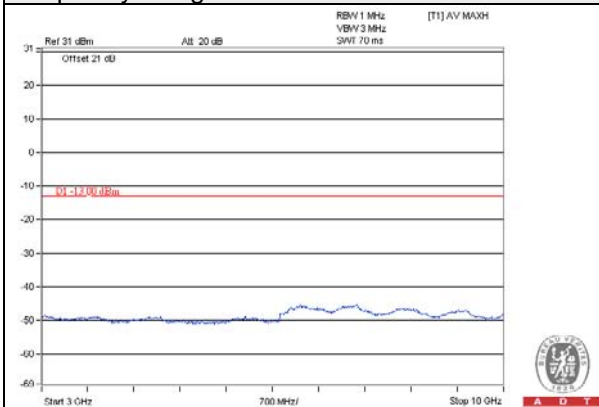


Chain 1

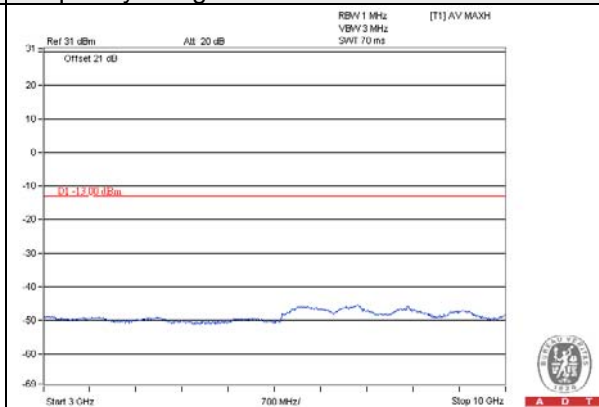
Frequency Range : 9kHz~3GHz



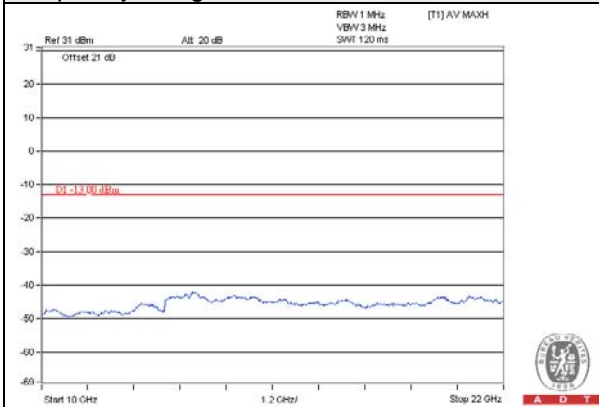
Frequency Range : 3GHz~10GHz



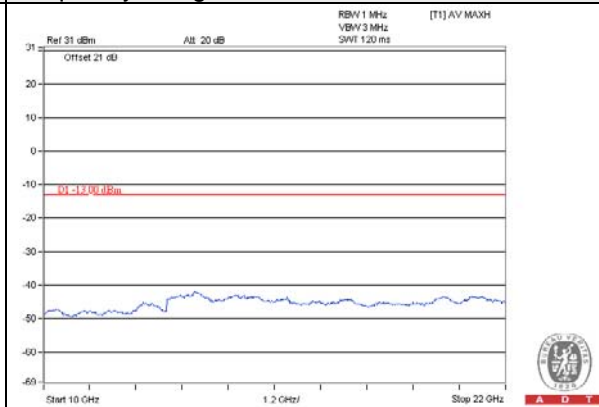
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



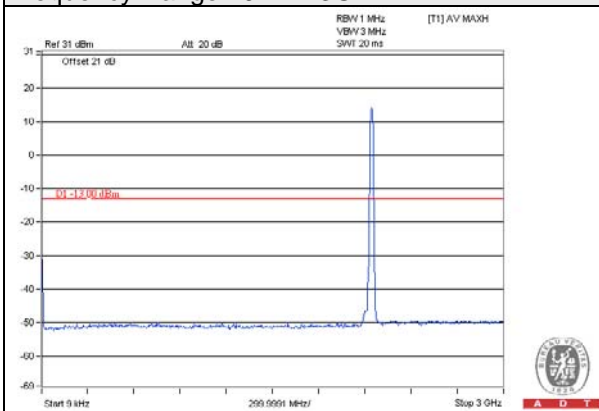
Frequency Range : 10GHz~22GHz



Frequency 2145.0

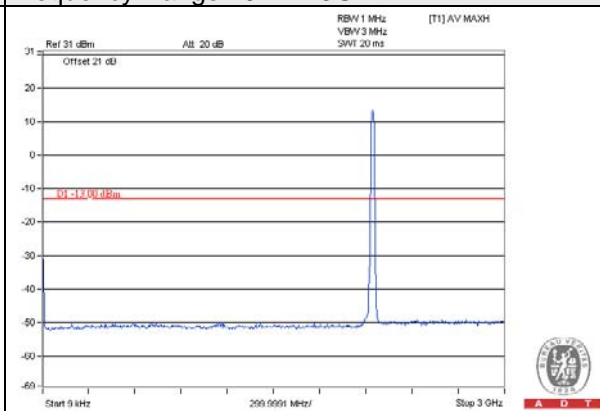
Chain 0

Frequency Range : 9kHz~3GHz

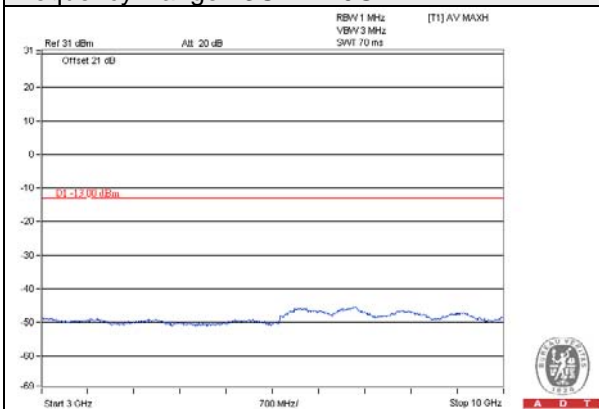


Chain 1

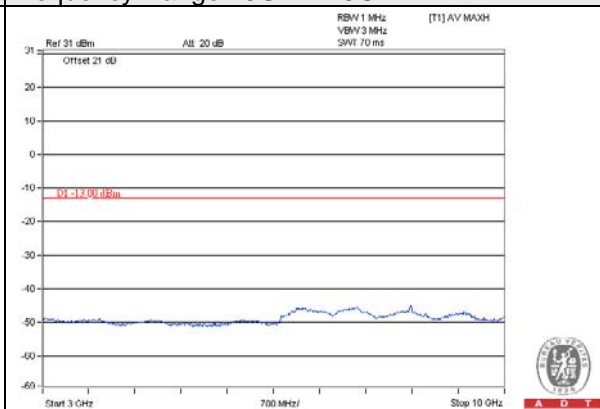
Frequency Range : 9kHz~3GHz



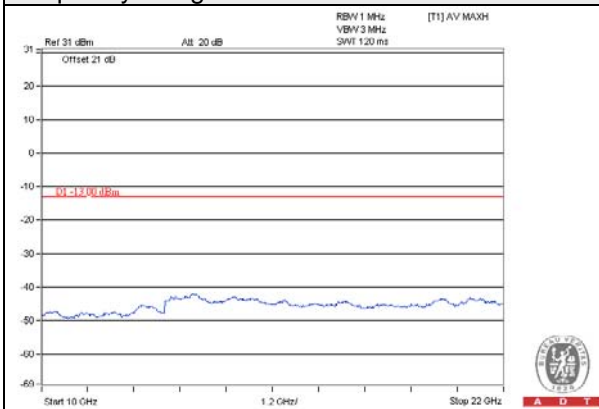
Frequency Range : 3GHz~10GHz



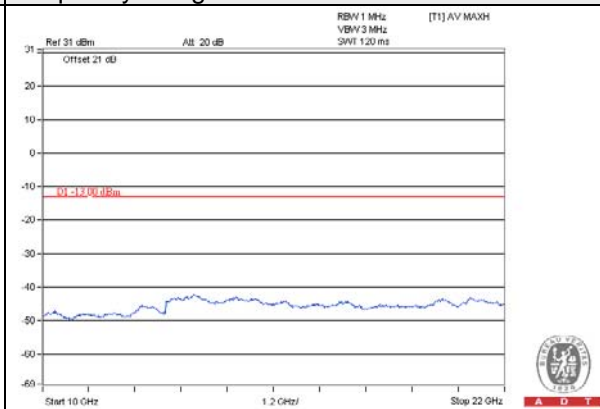
Frequency Range : 3GHz~10GHz



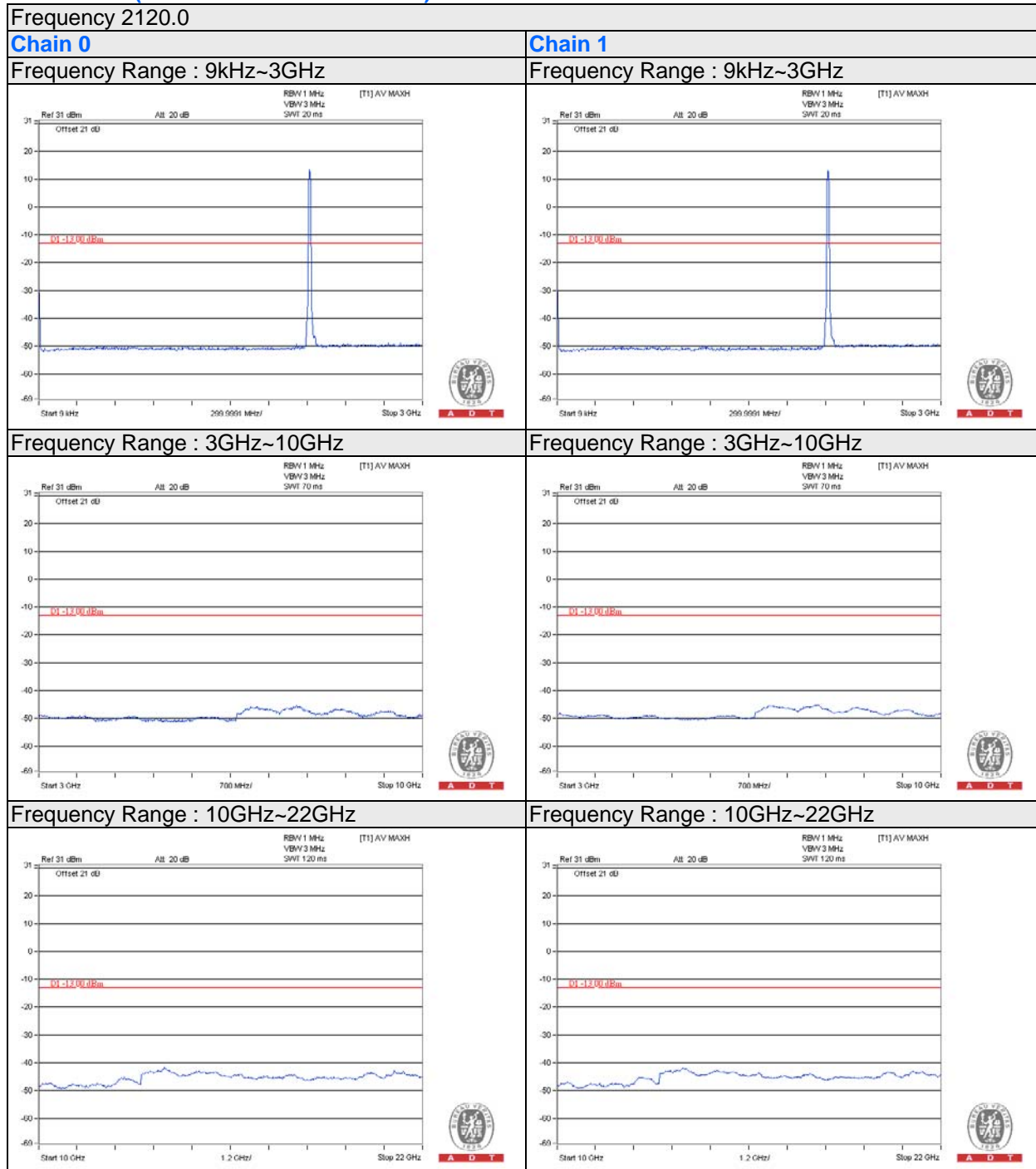
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



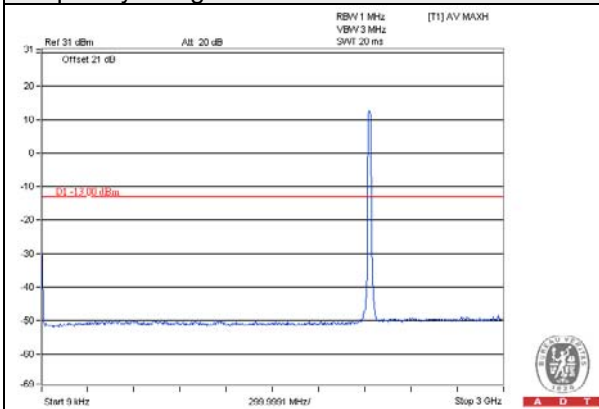
LTE Band 4 (Channel Bandwidth 20MHz): 16QAM



Frequency 2132.5

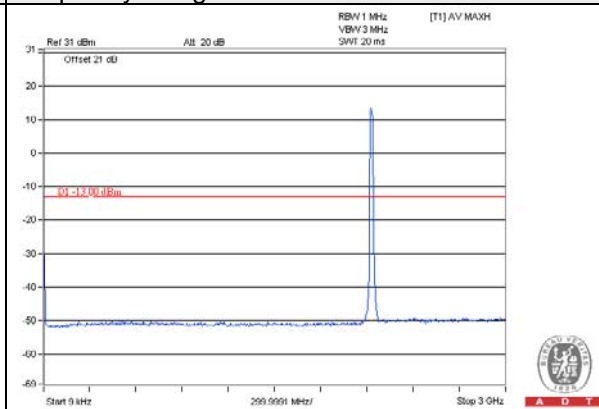
Chain 0

Frequency Range : 9kHz~3GHz

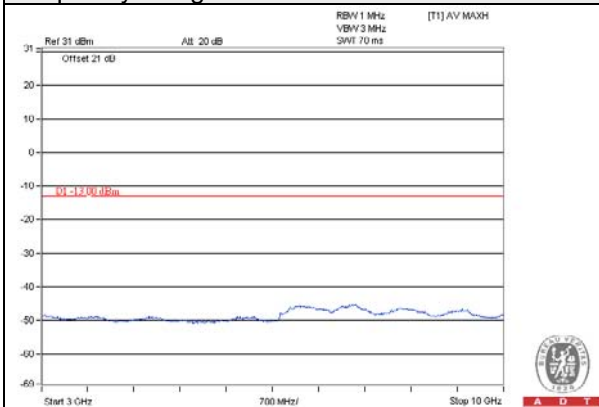


Chain 1

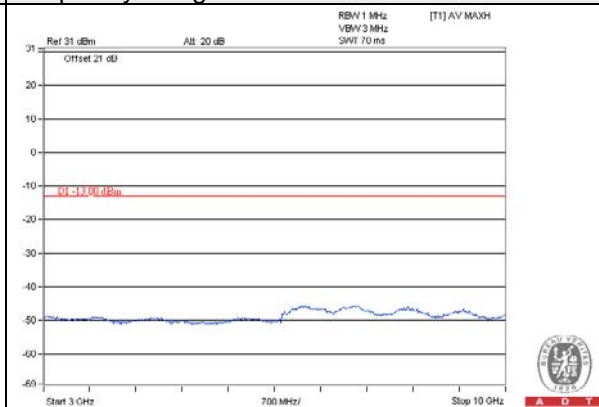
Frequency Range : 9kHz~3GHz



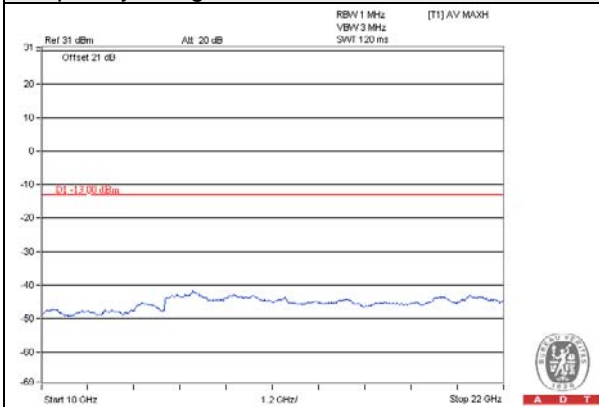
Frequency Range : 3GHz~10GHz



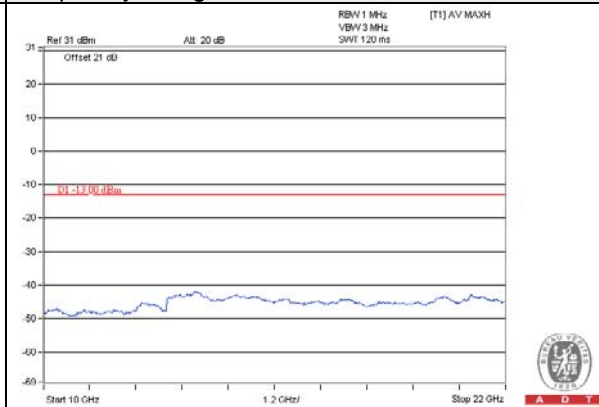
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



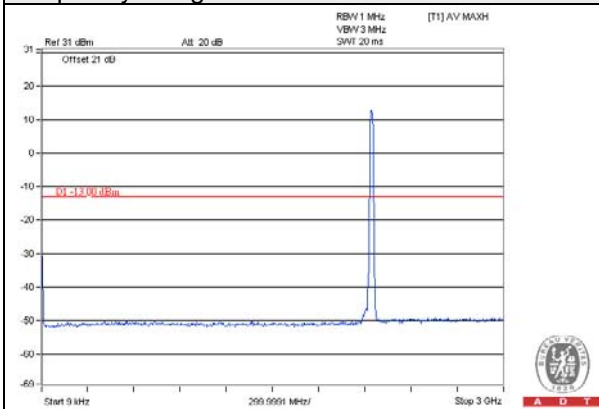
Frequency Range : 10GHz~22GHz



Frequency 2145.0

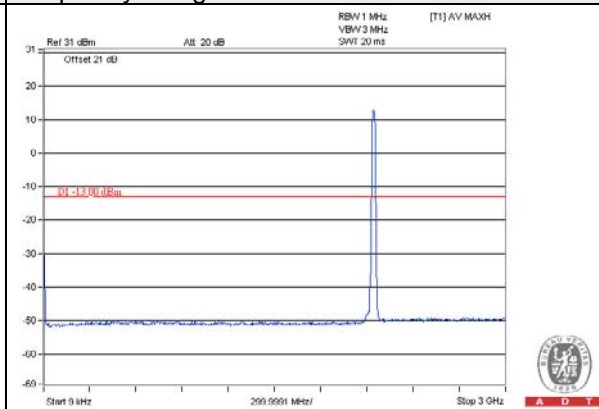
Chain 0

Frequency Range : 9kHz~3GHz

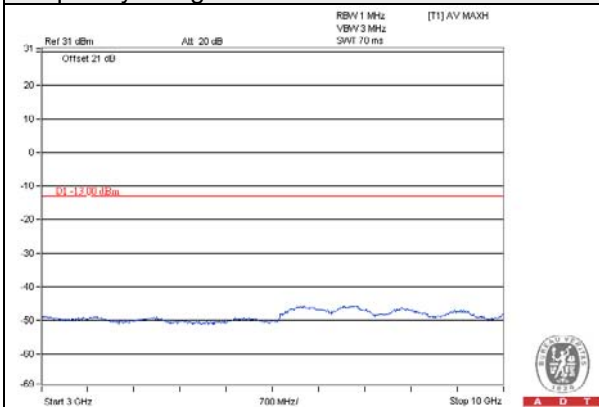


Chain 1

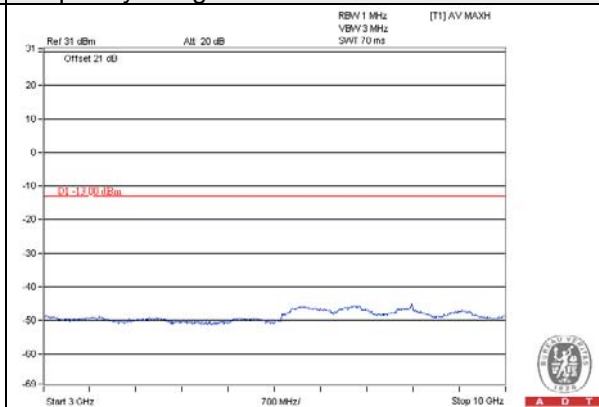
Frequency Range : 9kHz~3GHz



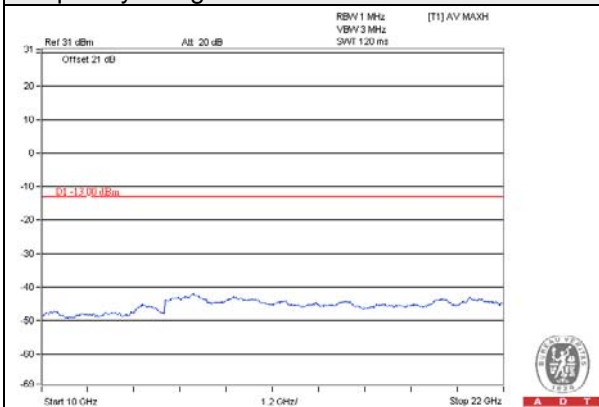
Frequency Range : 3GHz~10GHz



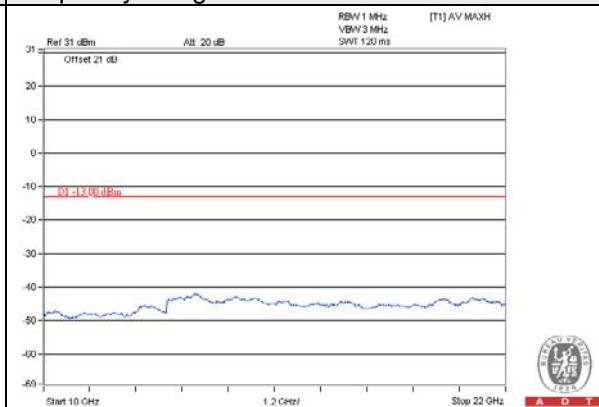
Frequency Range : 3GHz~10GHz



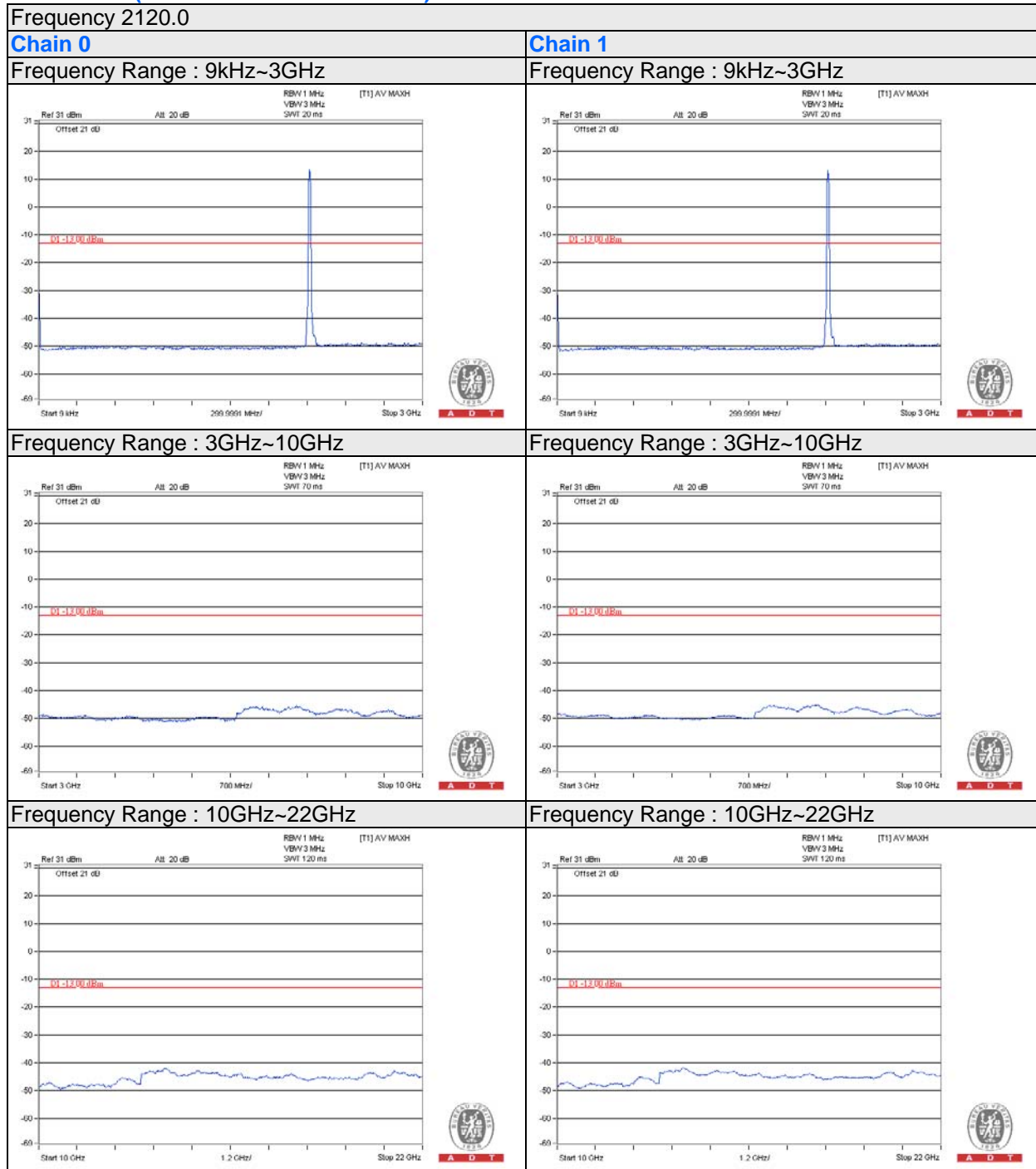
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



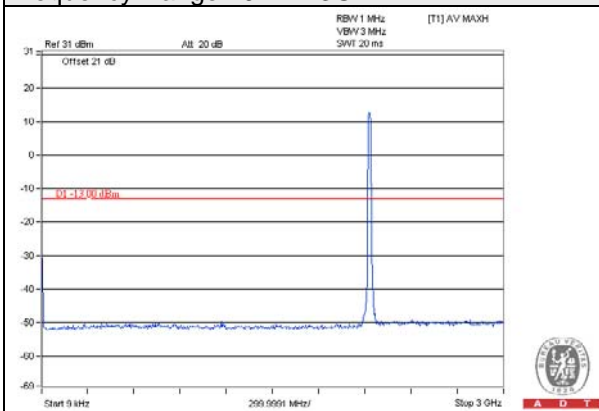
LTE Band 4 (Channel Bandwidth 20MHz): 64QAM



Frequency 2132.5

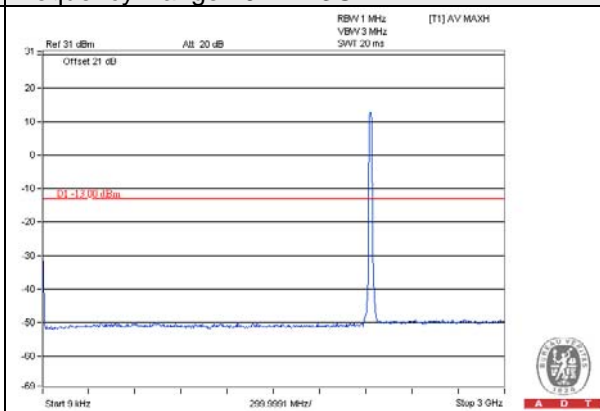
Chain 0

Frequency Range : 9kHz~3GHz

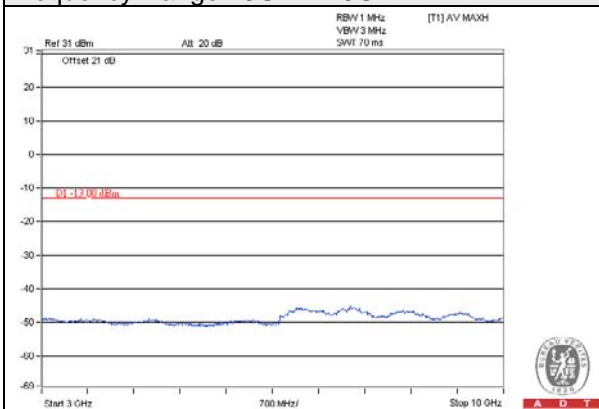


Chain 1

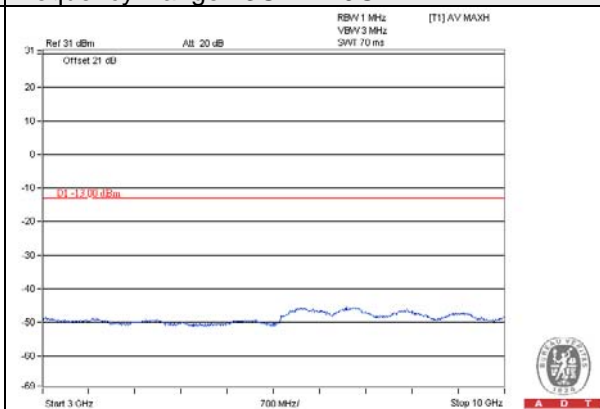
Frequency Range : 9kHz~3GHz



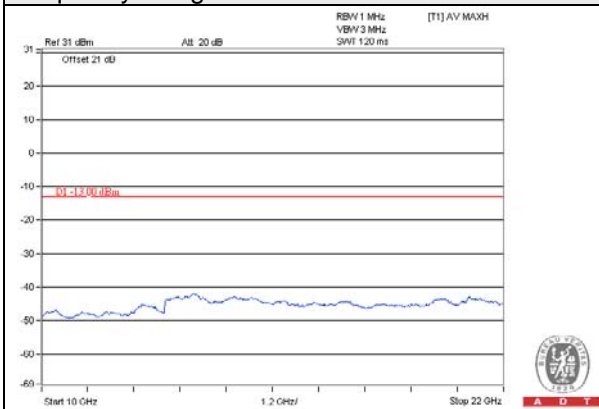
Frequency Range : 3GHz~10GHz



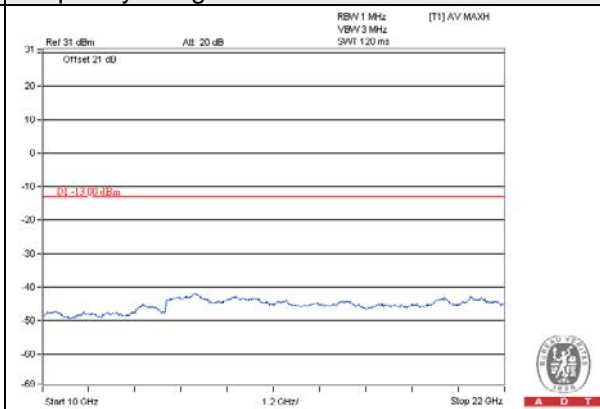
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



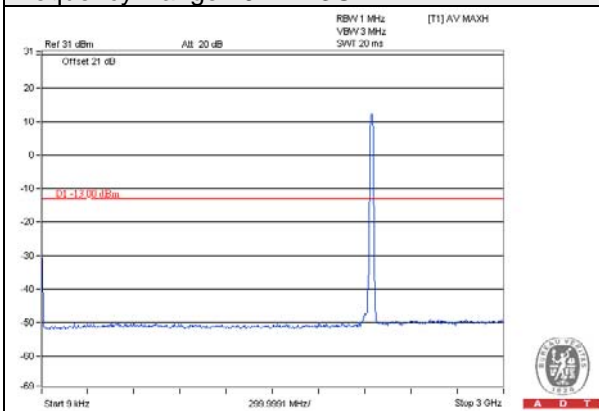
Frequency Range : 10GHz~22GHz



Frequency 2145.0

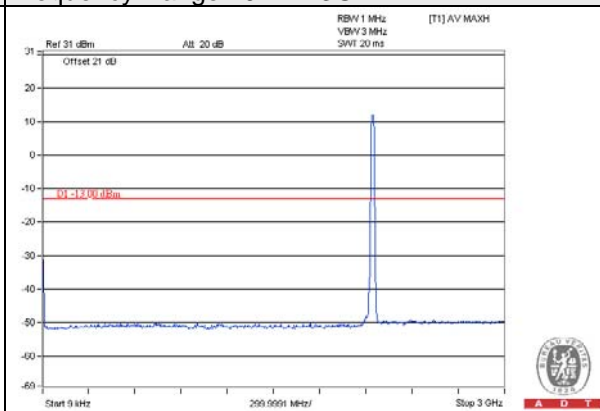
Chain 0

Frequency Range : 9kHz~3GHz

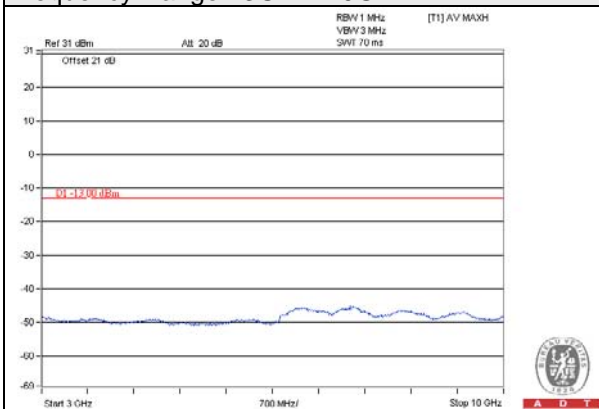


Chain 1

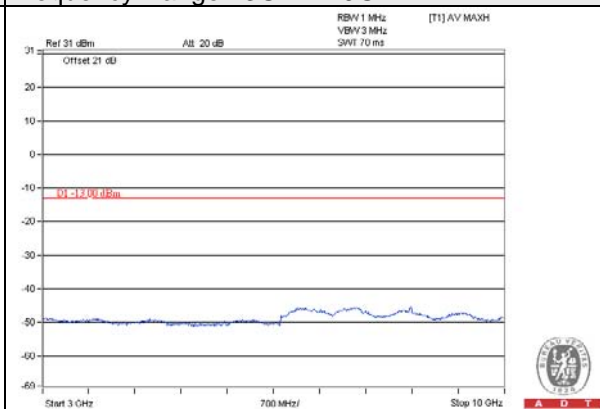
Frequency Range : 9kHz~3GHz



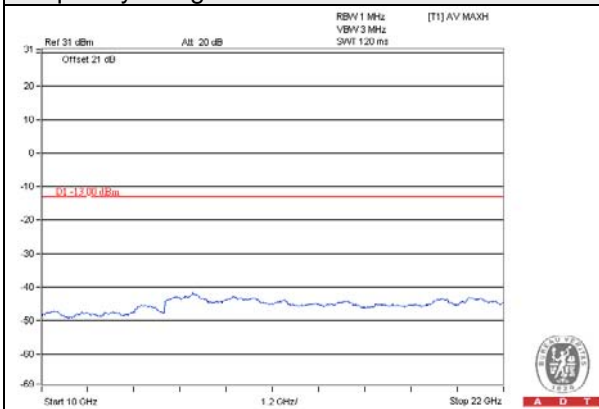
Frequency Range : 3GHz~10GHz



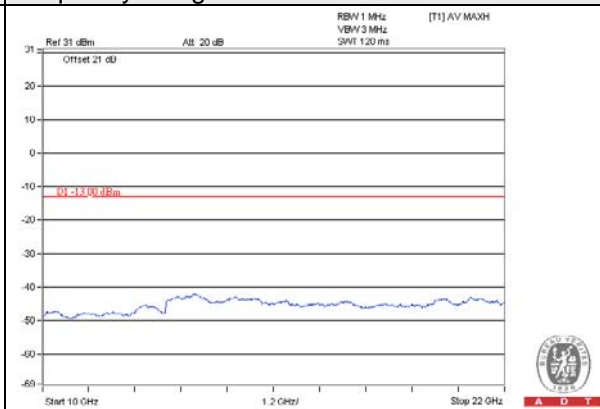
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz

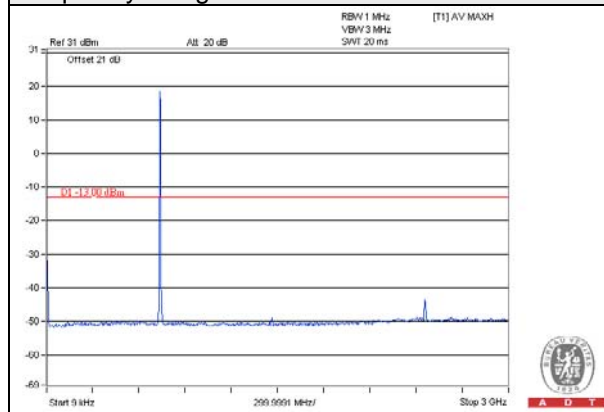


LTE Band 12 (Channel Bandwidth 5MHz): QPSK

Frequency 731.5

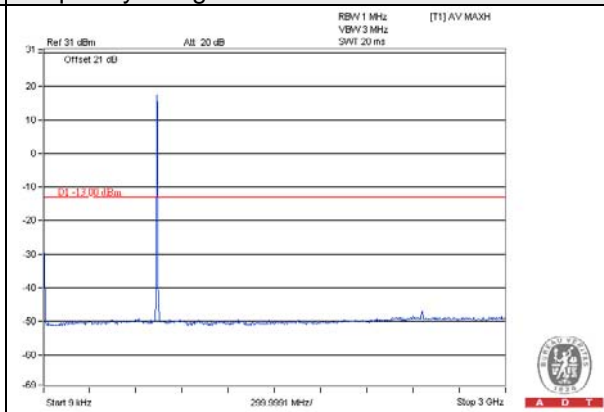
Chain 0

Frequency Range : 9kHz~3GHz

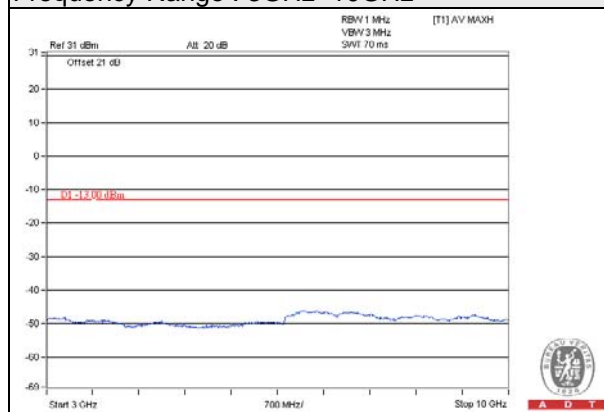


Chain 1

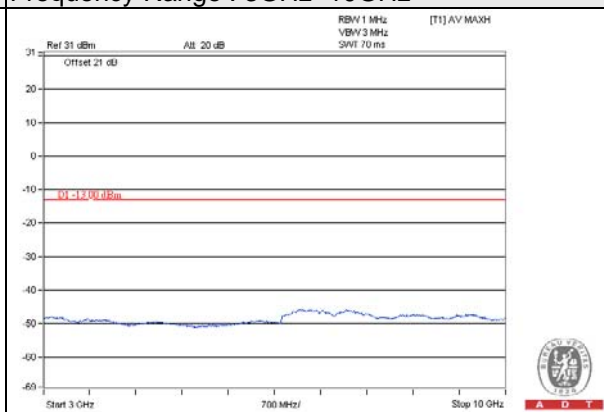
Frequency Range : 9kHz~3GHz



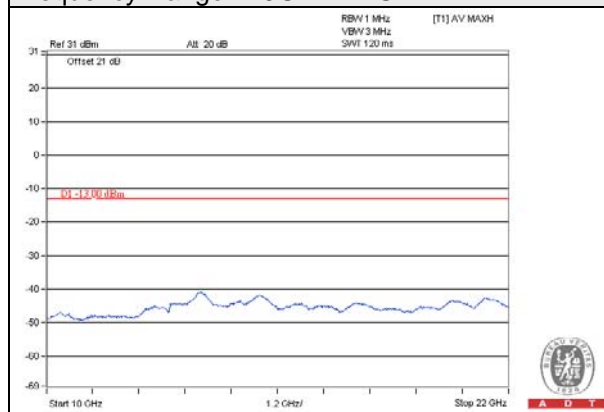
Frequency Range : 3GHz~10GHz



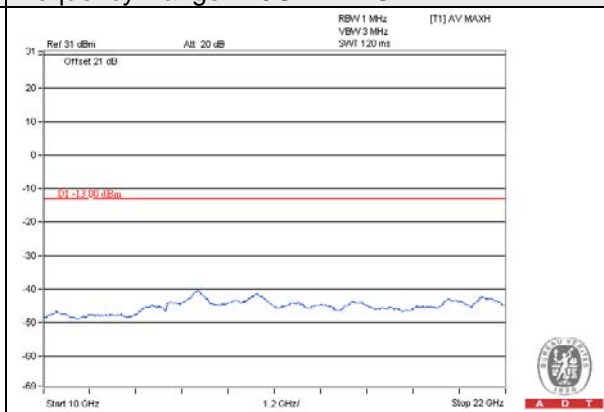
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



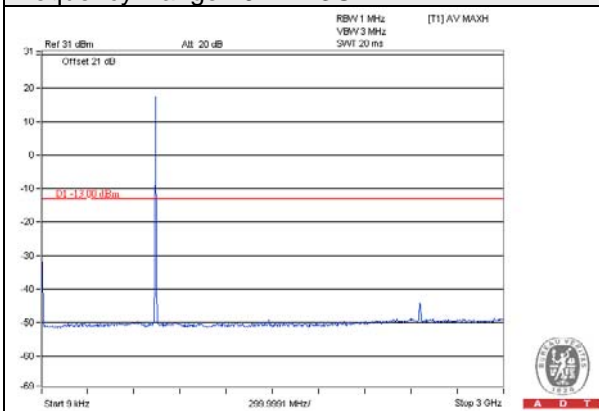
Frequency Range : 10GHz~22GHz



Frequency 737.0

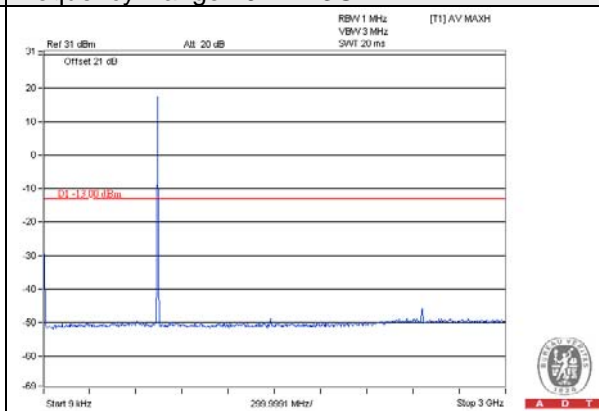
Chain 0

Frequency Range : 9kHz~3GHz

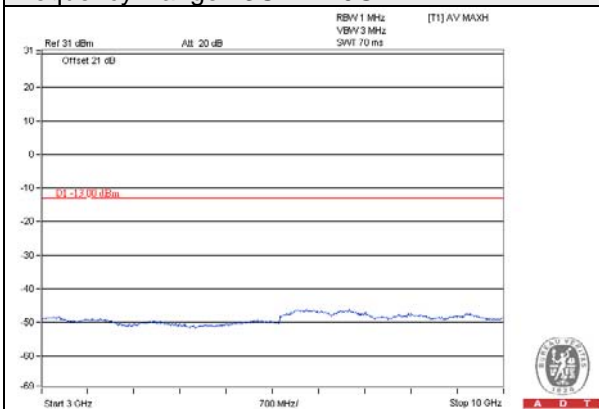


Chain 1

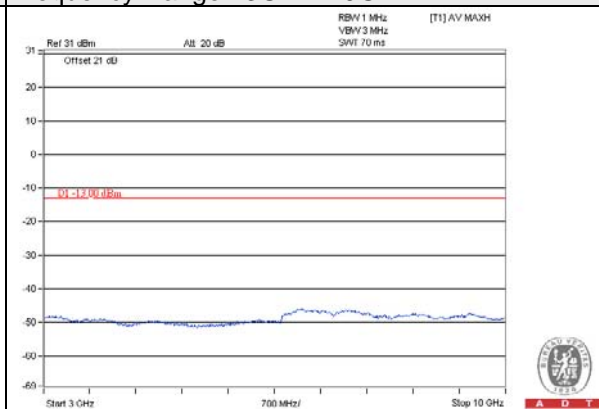
Frequency Range : 9kHz~3GHz



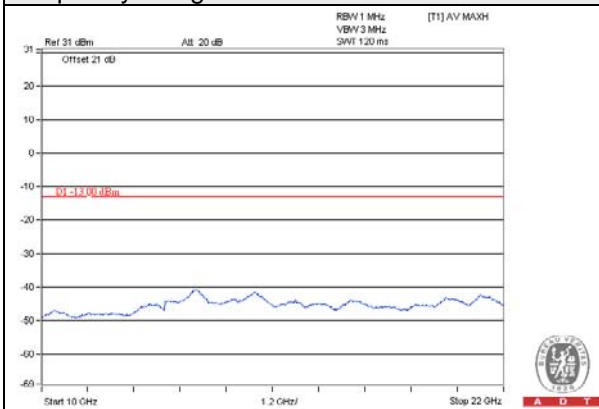
Frequency Range : 3GHz~10GHz



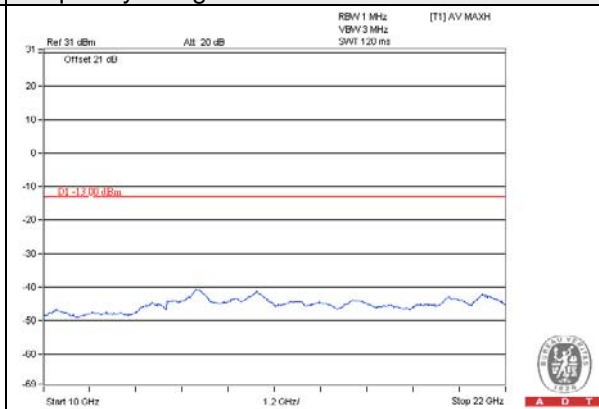
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



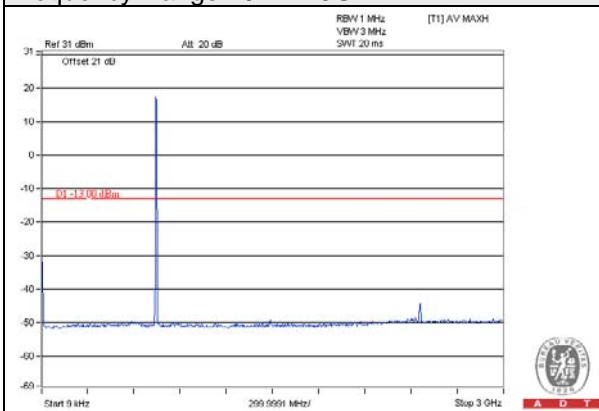
Frequency Range : 10GHz~22GHz



Frequency 742.5

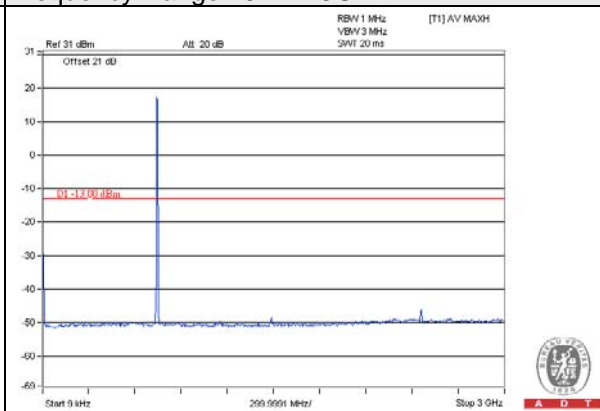
Chain 0

Frequency Range : 9kHz~3GHz

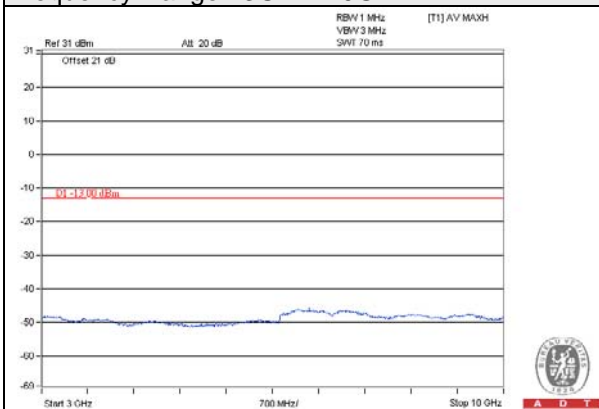


Chain 1

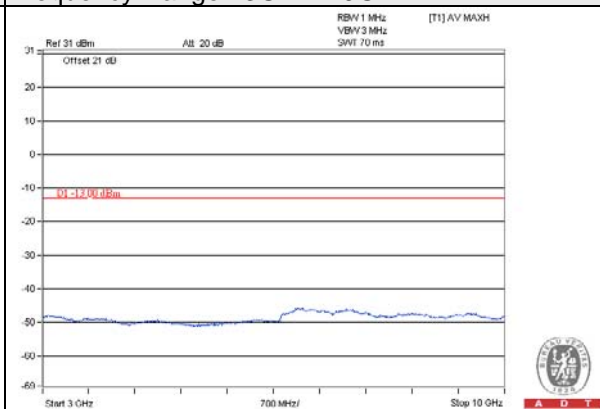
Frequency Range : 9kHz~3GHz



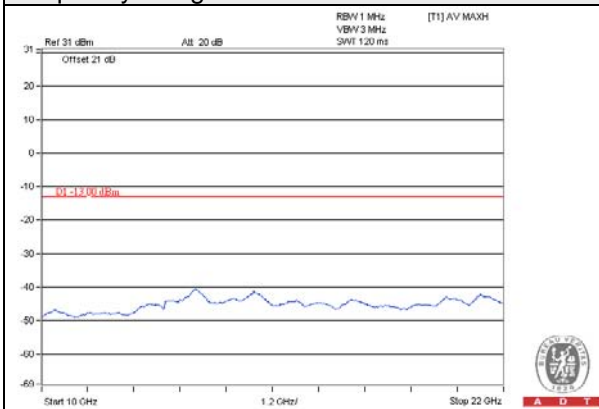
Frequency Range : 3GHz~10GHz



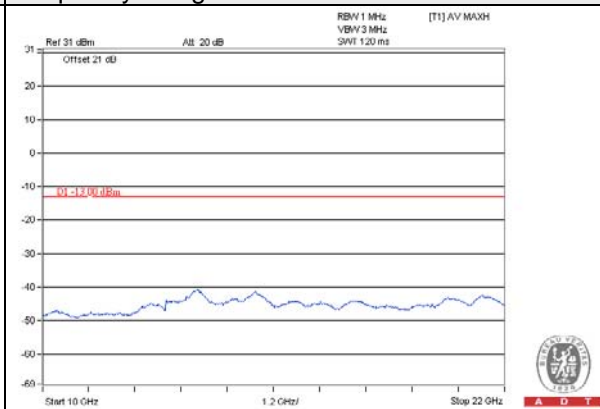
Frequency Range : 3GHz~10GHz



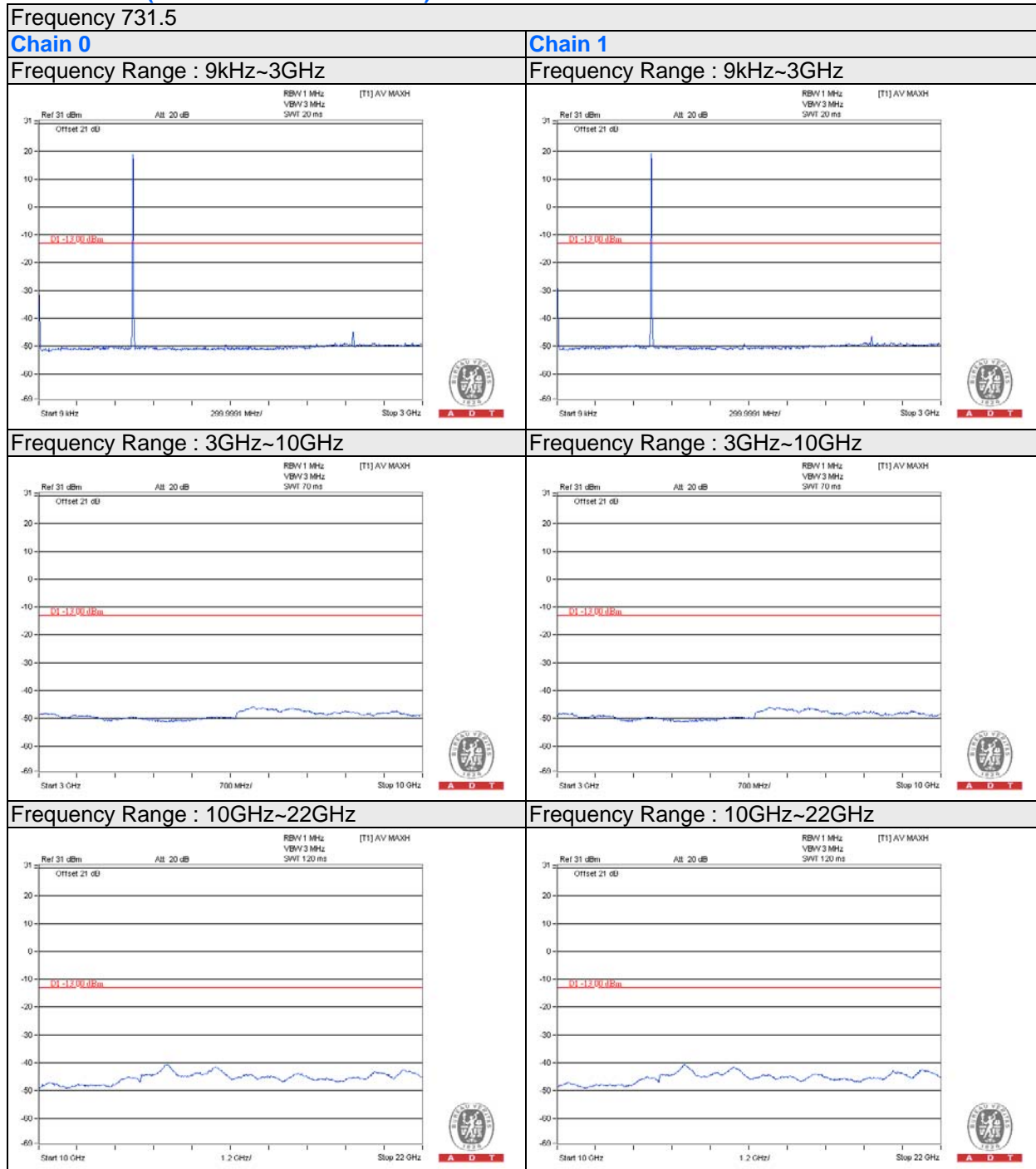
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



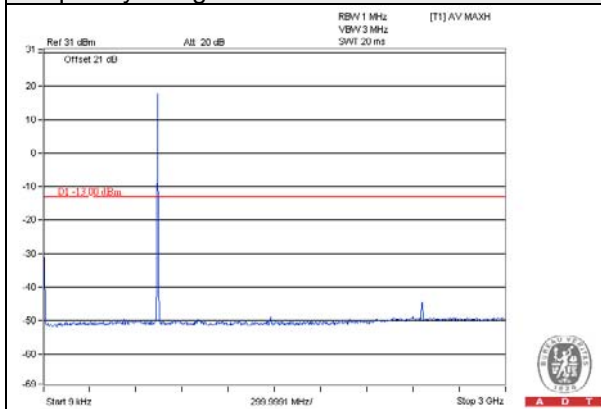
LTE Band 12 (Channel Bandwidth 5MHz): 16QAM



Frequency 737.0

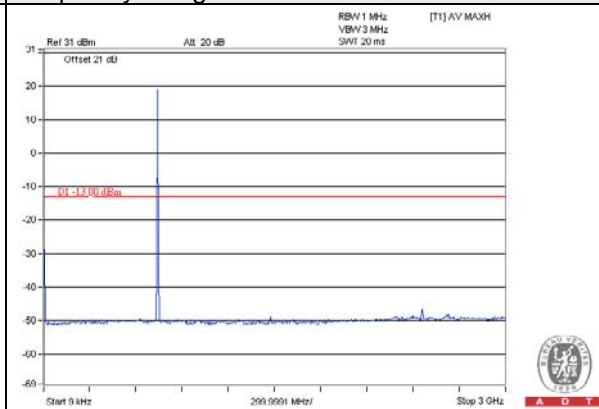
Chain 0

Frequency Range : 9kHz~3GHz

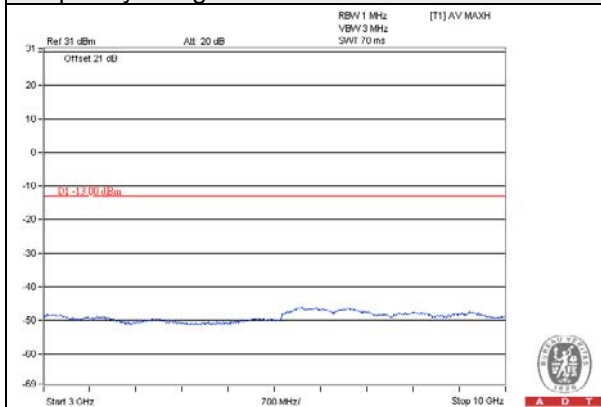


Chain 1

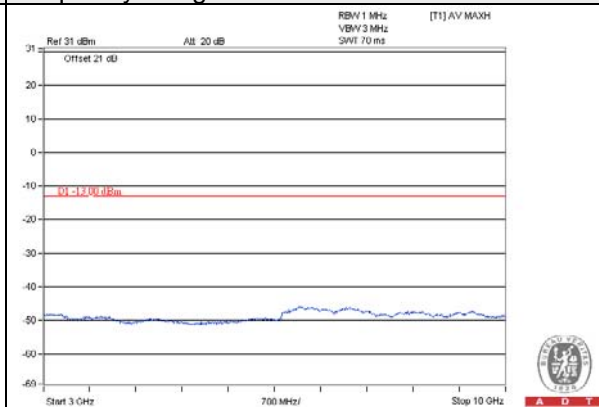
Frequency Range : 9kHz~3GHz



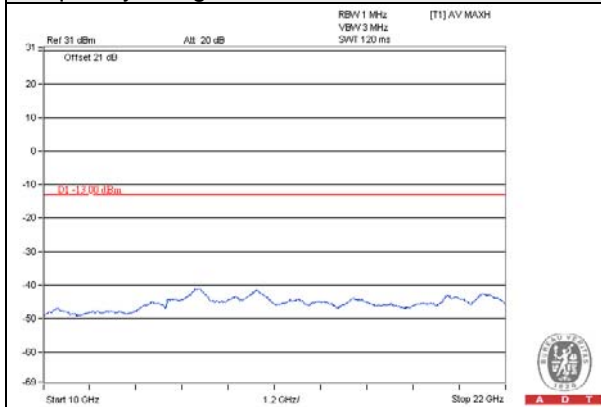
Frequency Range : 3GHz~10GHz



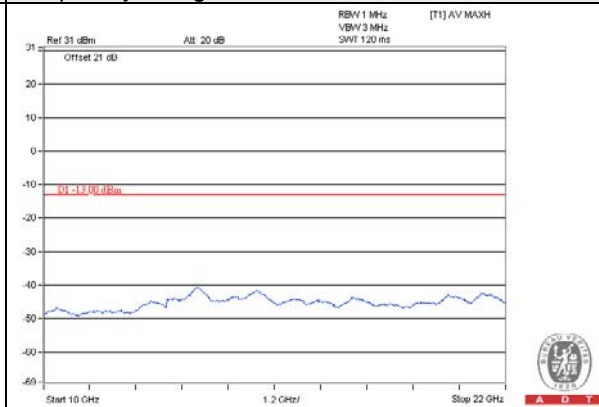
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



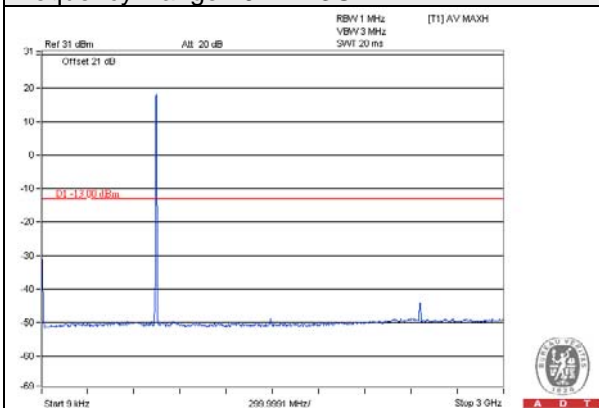
Frequency Range : 10GHz~22GHz



Frequency 742.5

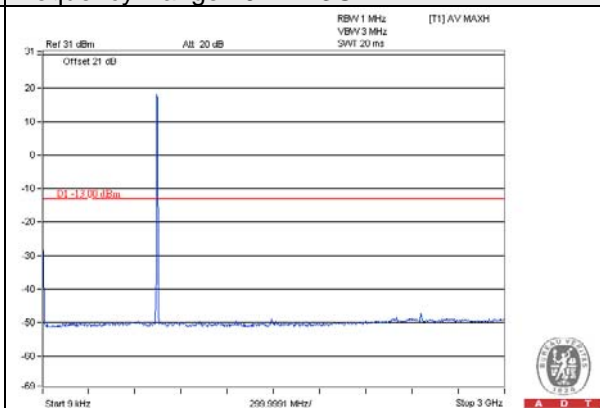
Chain 0

Frequency Range : 9kHz~3GHz

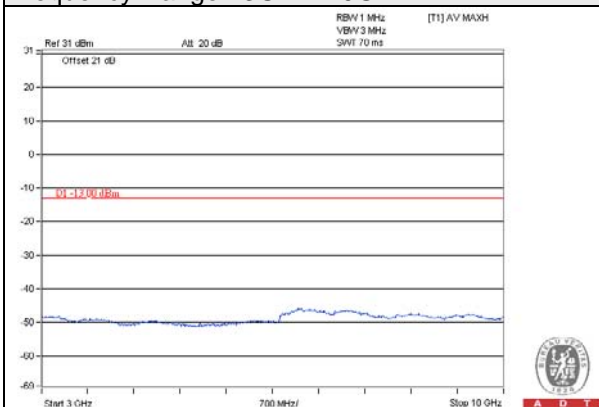


Chain 1

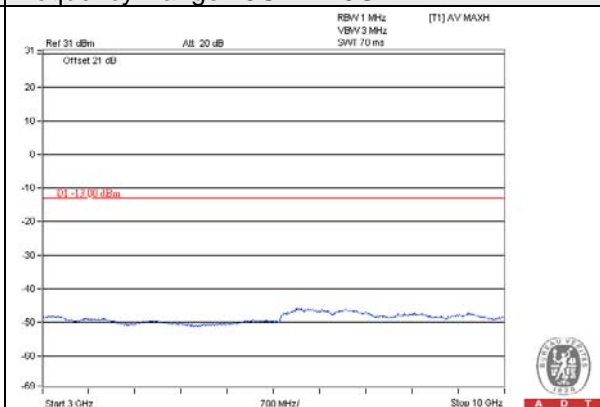
Frequency Range : 9kHz~3GHz



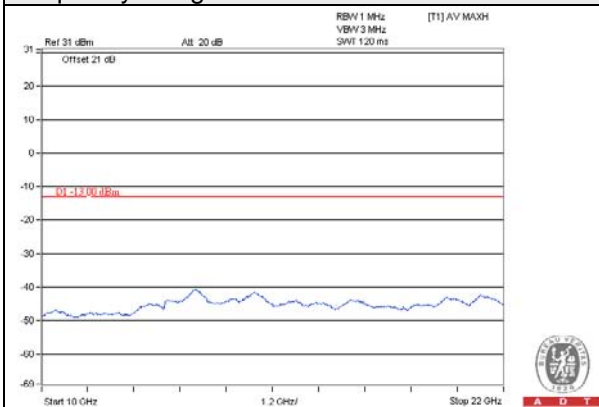
Frequency Range : 3GHz~10GHz



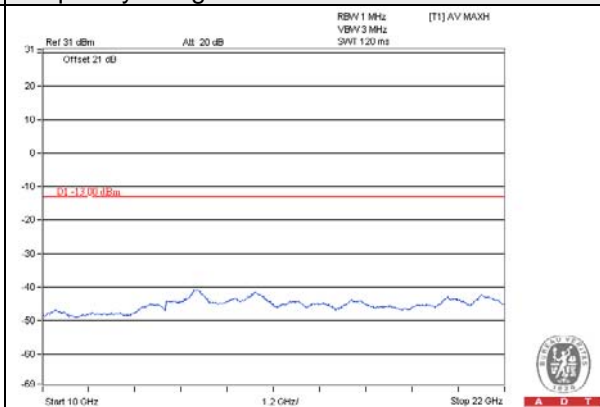
Frequency Range : 3GHz~10GHz



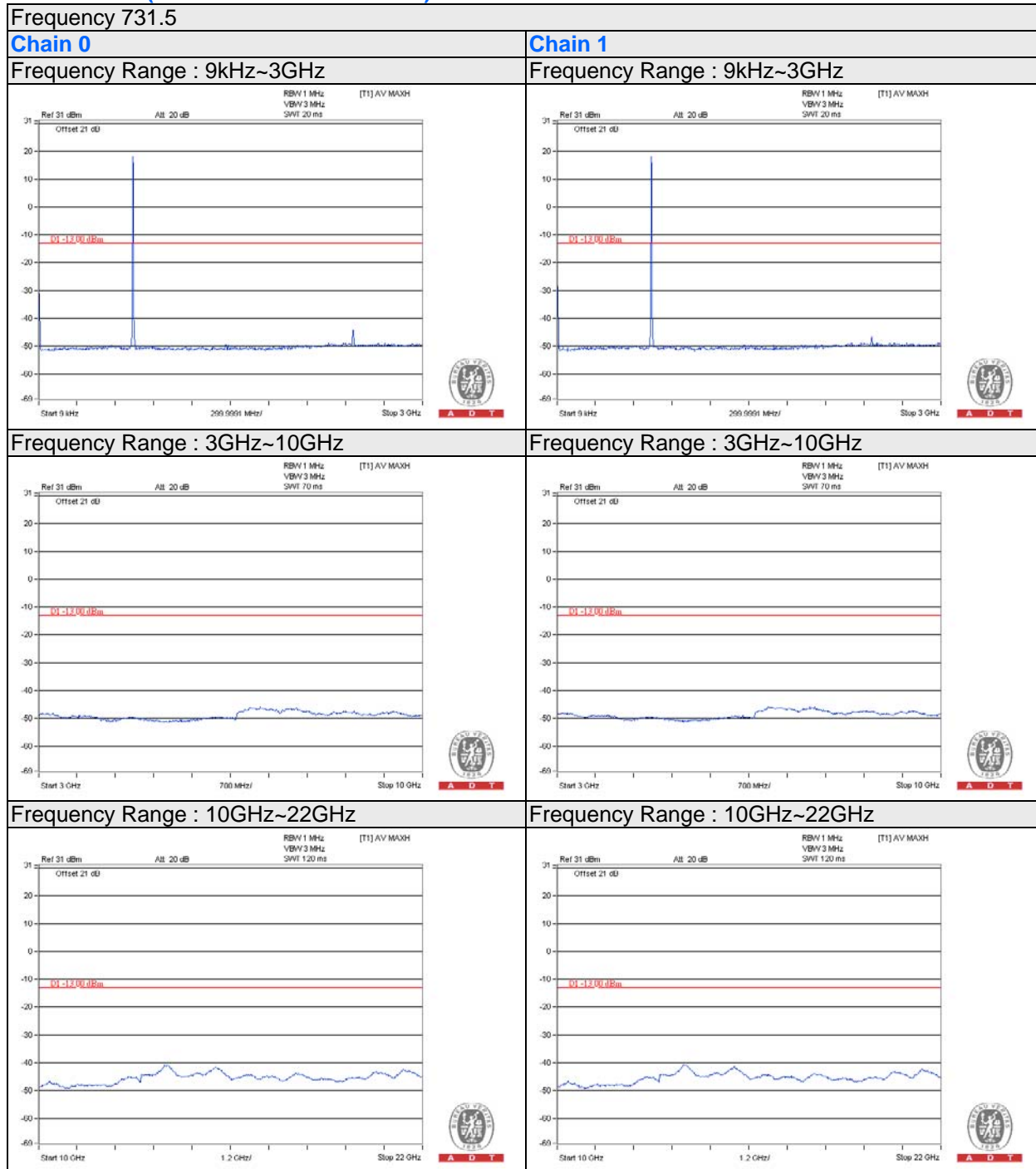
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



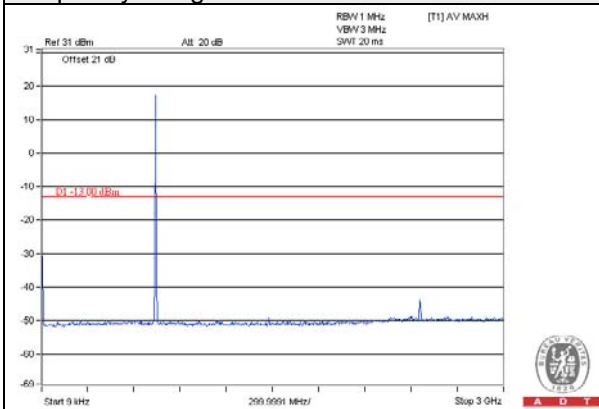
LTE Band 12 (Channel Bandwidth 5MHz): 64QAM



Frequency 737.0

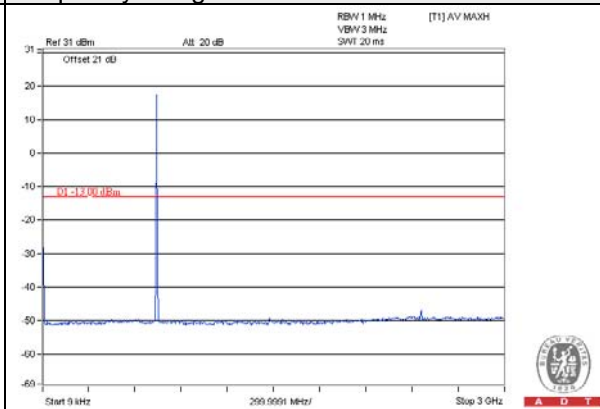
Chain 0

Frequency Range : 9kHz~3GHz

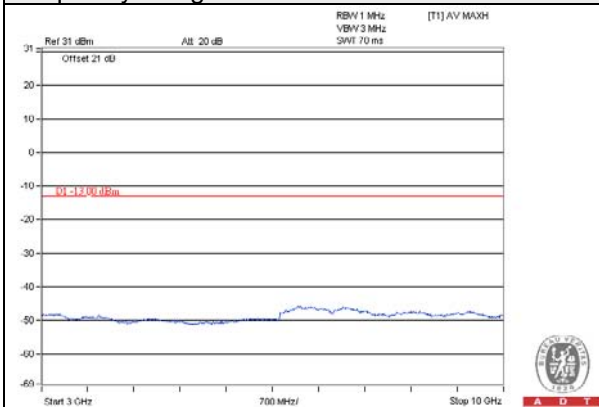


Chain 1

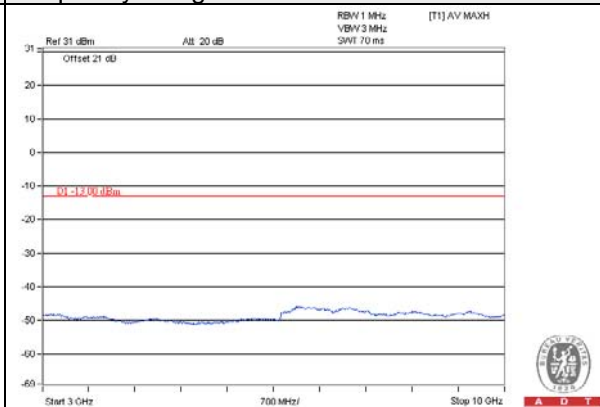
Frequency Range : 9kHz~3GHz



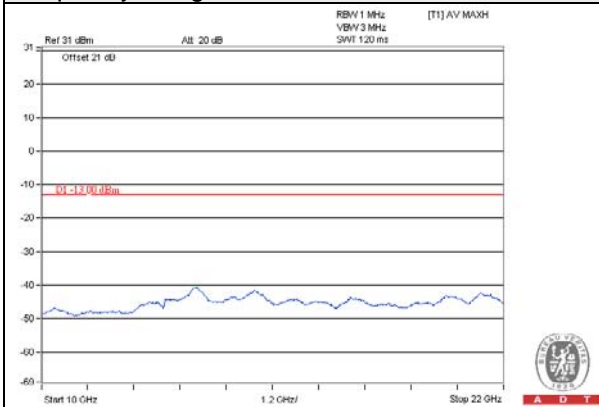
Frequency Range : 3GHz~10GHz



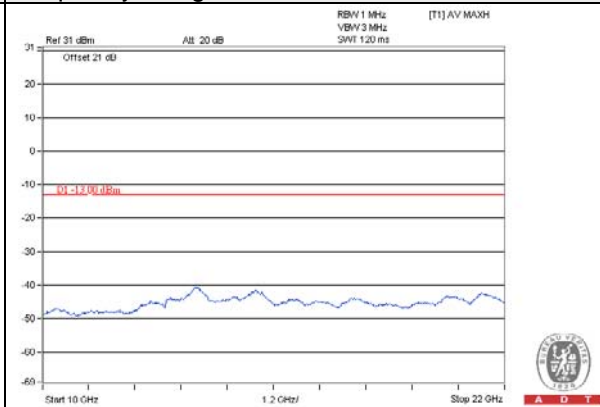
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



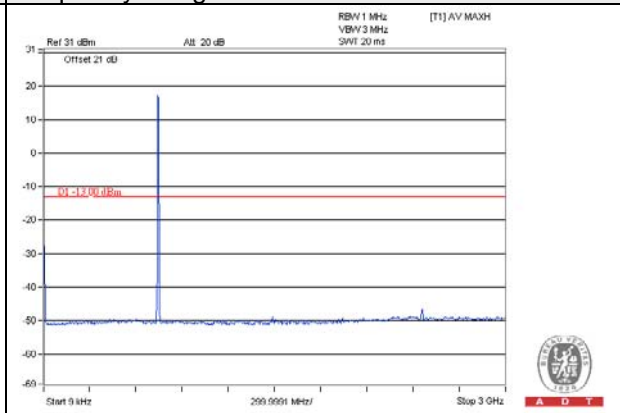
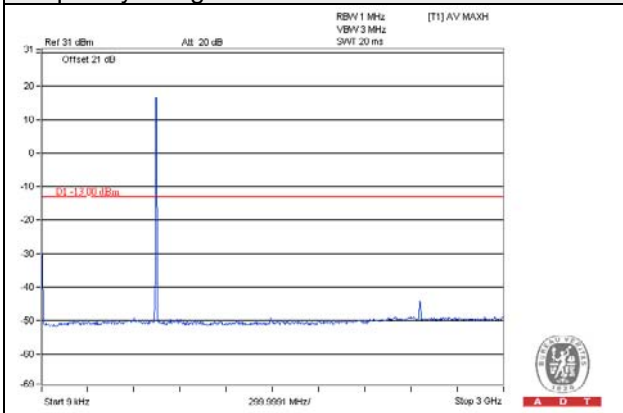
Frequency 742.5

Chain 0

Chain 1

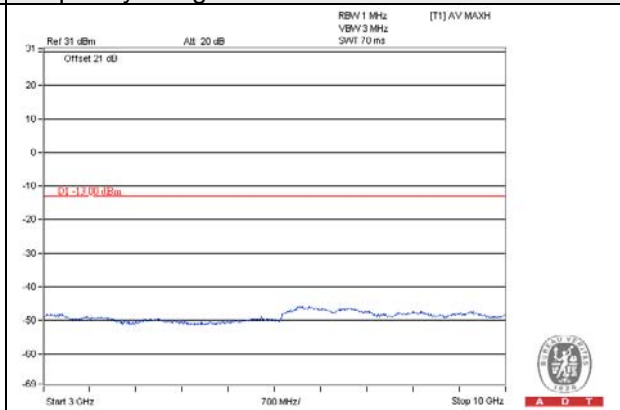
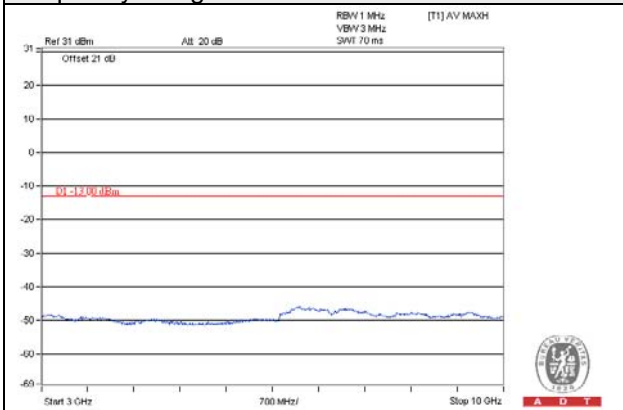
Frequency Range : 9kHz~3GHz

Frequency Range : 9kHz~3GHz



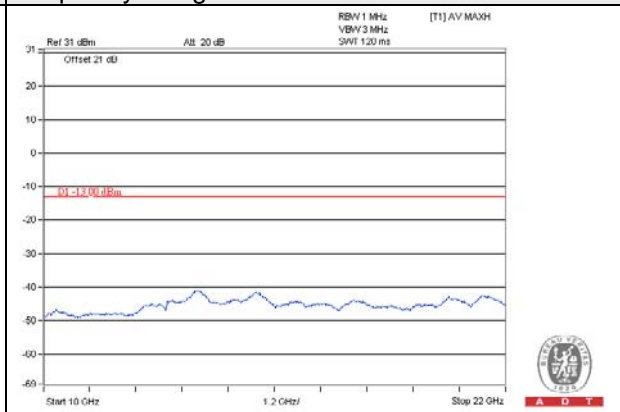
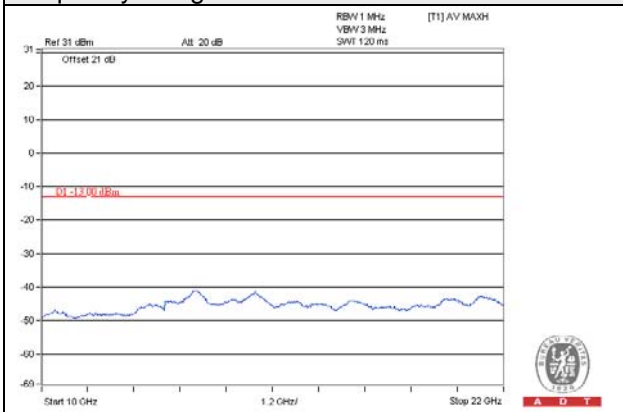
Frequency Range : 3GHz~10GHz

Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz

Frequency Range : 10GHz~22GHz

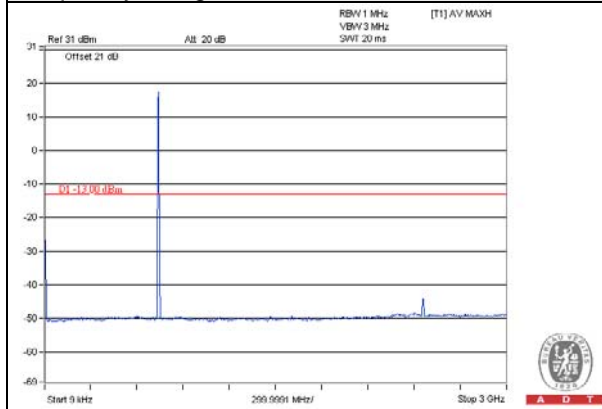


LTE Band 12 (Channel Bandwidth 10MHz): QPSK

Frequency 734.0

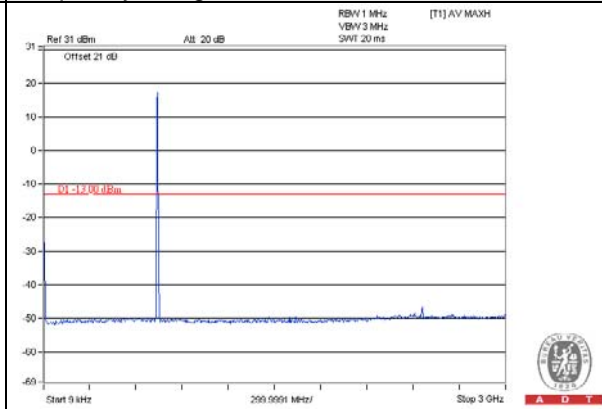
Chain 0

Frequency Range : 9kHz~3GHz

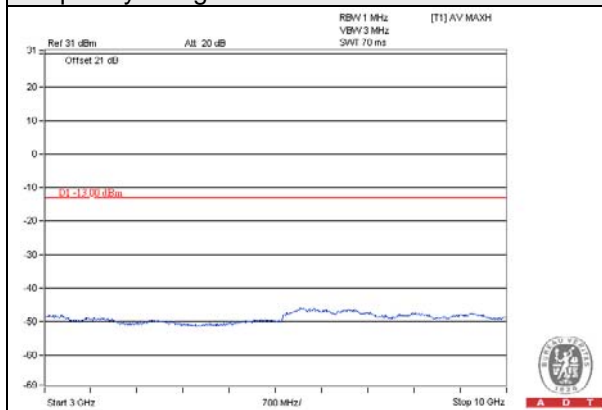


Chain 1

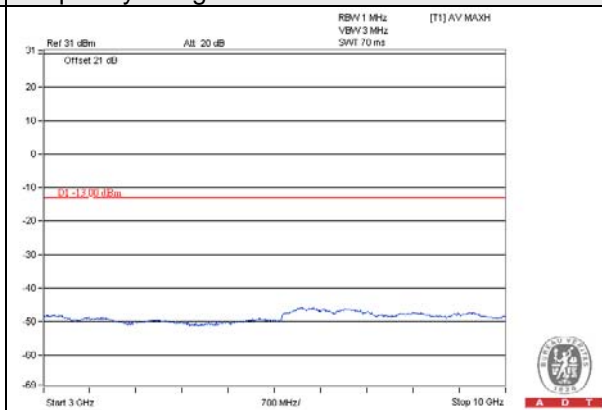
Frequency Range : 9kHz~3GHz



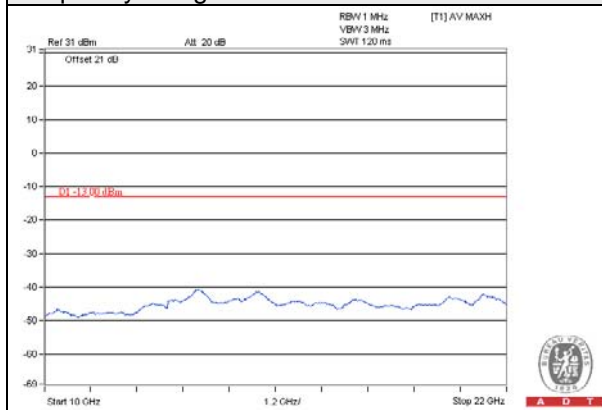
Frequency Range : 3GHz~10GHz



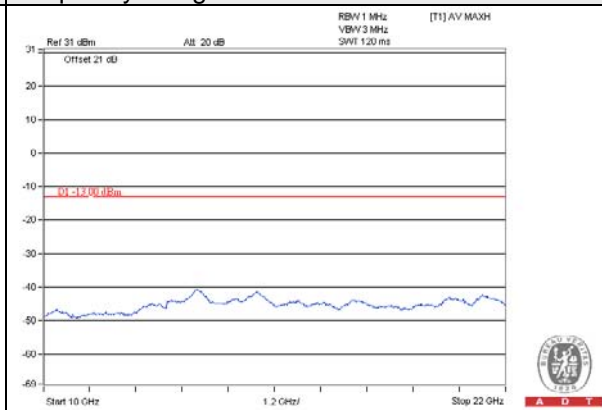
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



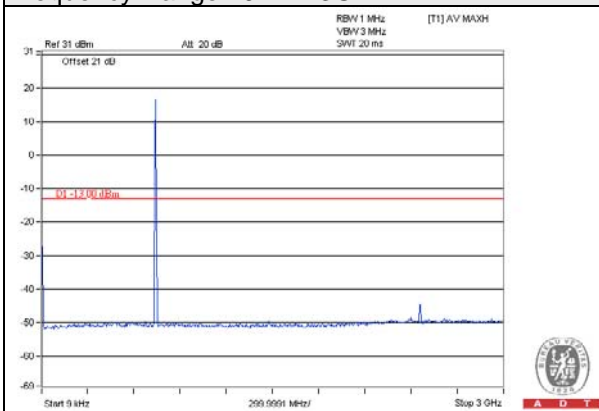
Frequency Range : 10GHz~22GHz



Frequency 737.0

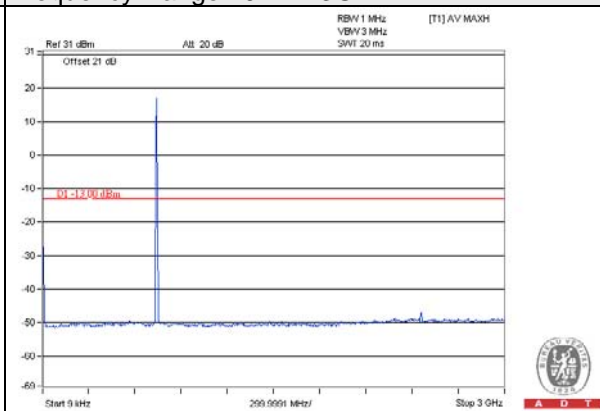
Chain 0

Frequency Range : 9kHz~3GHz

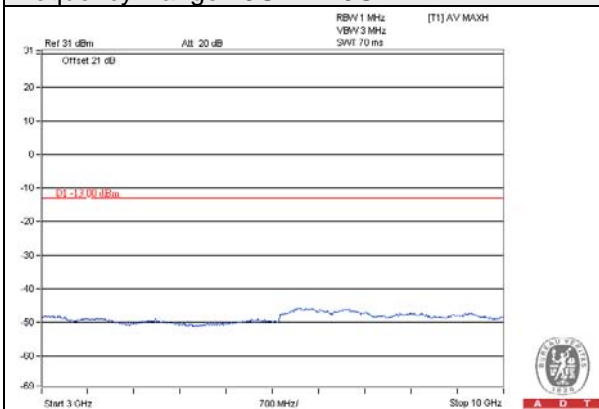


Chain 1

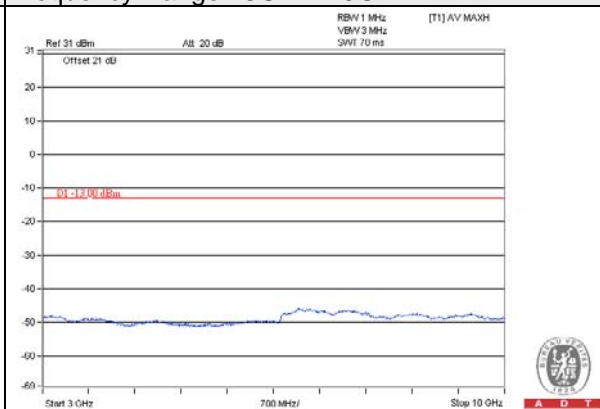
Frequency Range : 9kHz~3GHz



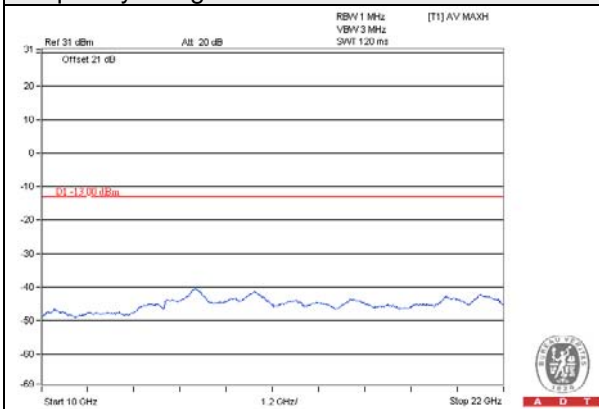
Frequency Range : 3GHz~10GHz



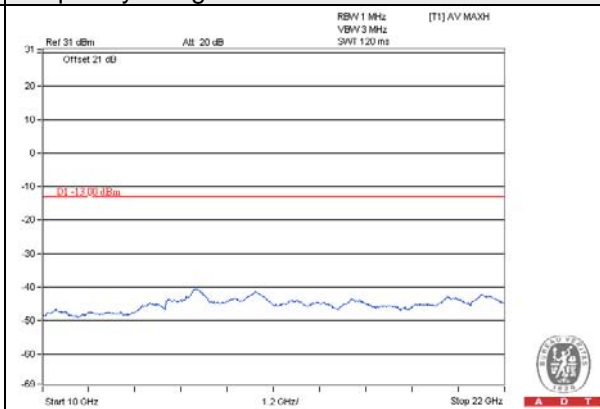
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



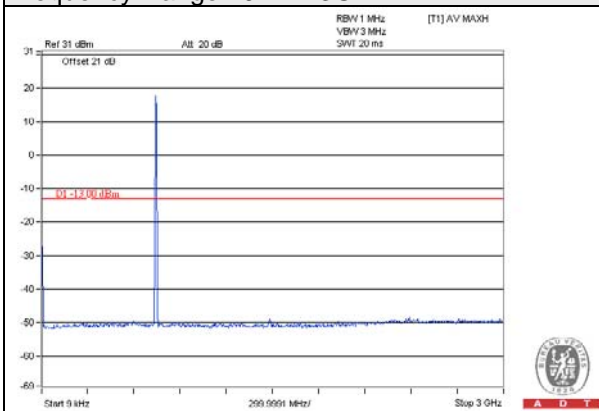
Frequency Range : 10GHz~22GHz



Frequency 740.0

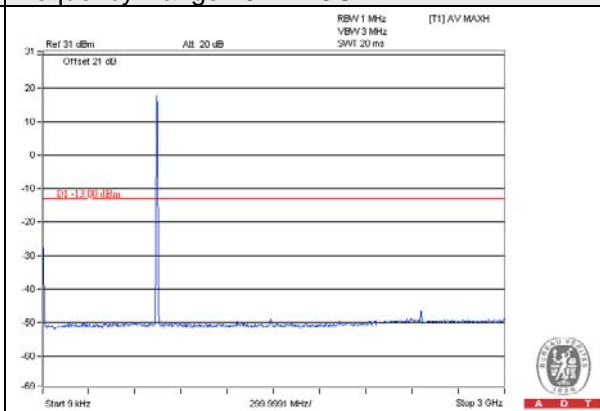
Chain 0

Frequency Range : 9kHz~3GHz

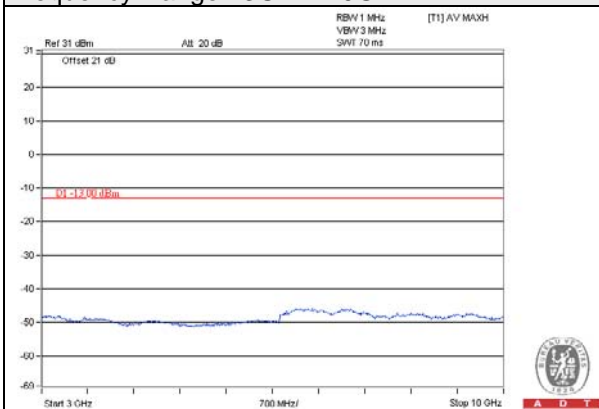


Chain 1

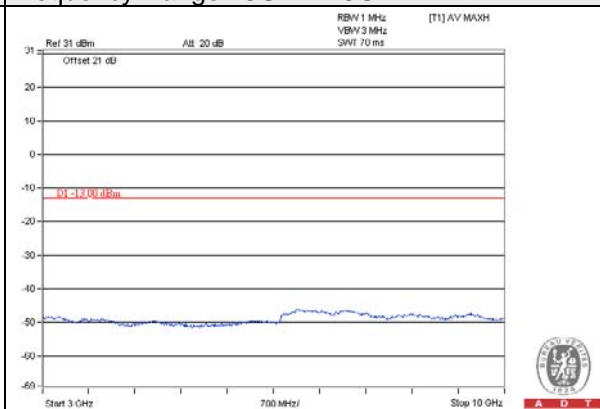
Frequency Range : 9kHz~3GHz



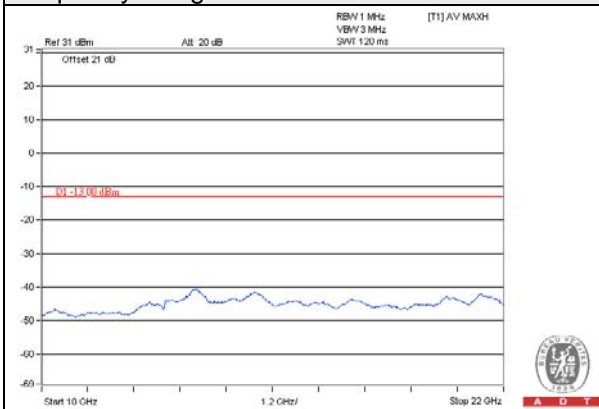
Frequency Range : 3GHz~10GHz



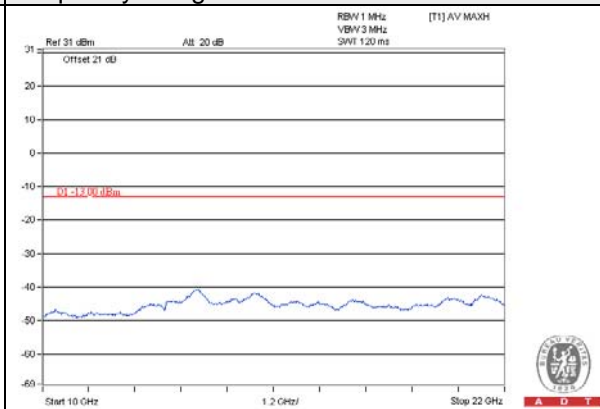
Frequency Range : 3GHz~10GHz



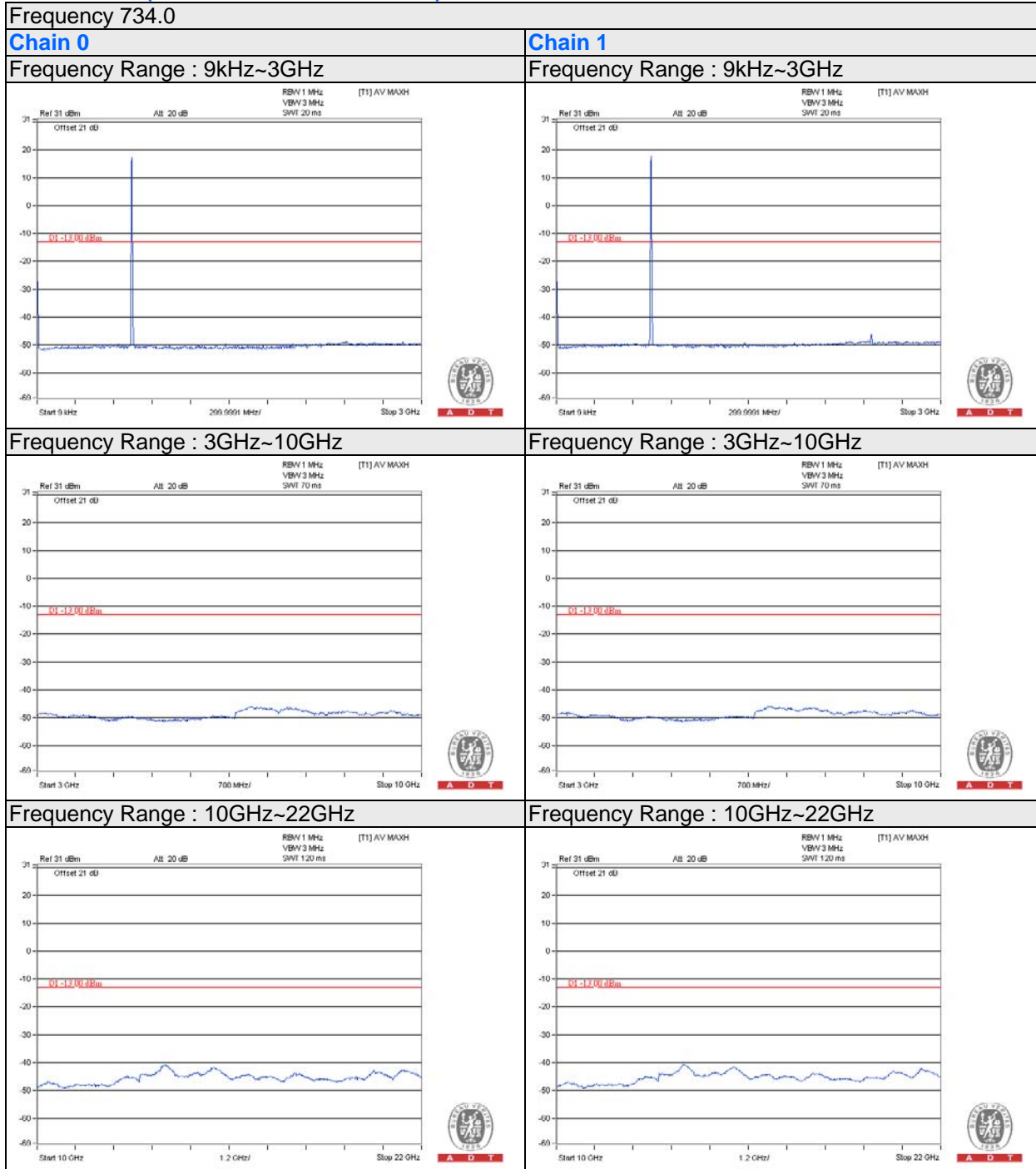
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



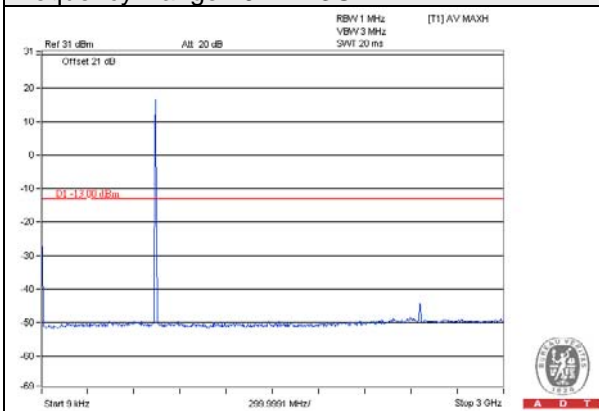
LTE Band 12 (Channel Bandwidth 10MHz): 16QAM



Frequency 737.0

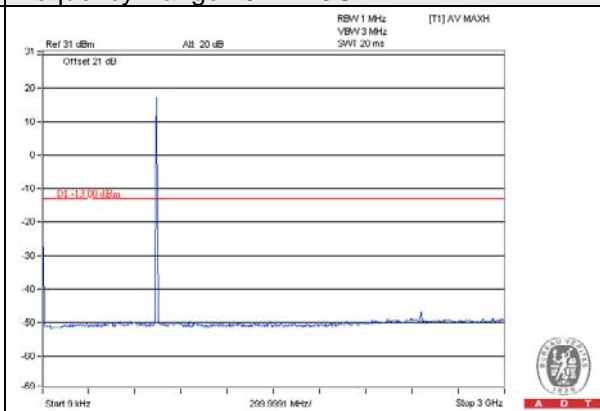
Chain 0

Frequency Range : 9kHz~3GHz

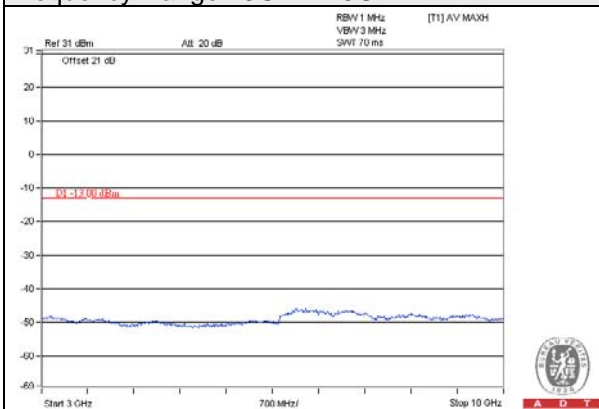


Chain 1

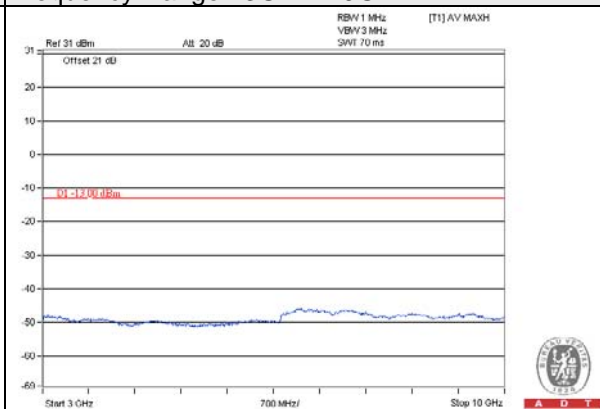
Frequency Range : 9kHz~3GHz



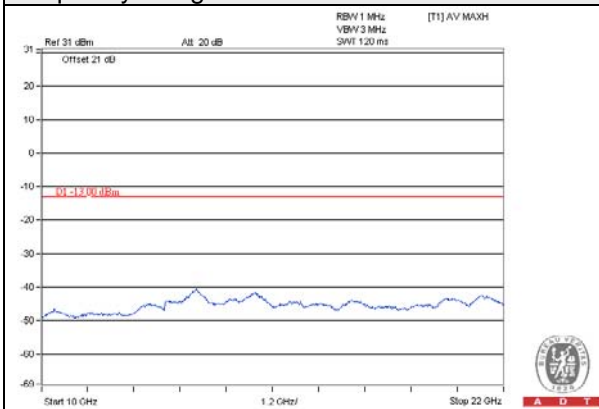
Frequency Range : 3GHz~10GHz



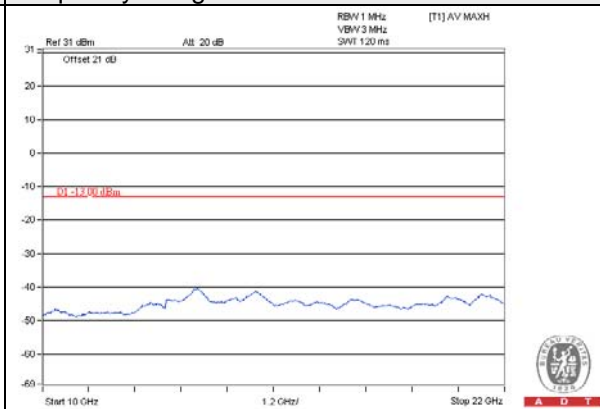
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



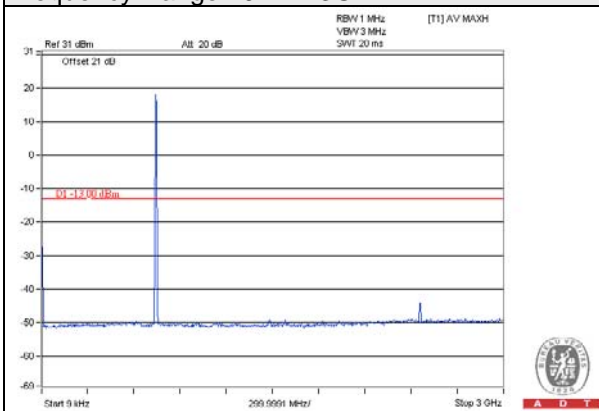
Frequency Range : 10GHz~22GHz



Frequency 740.0

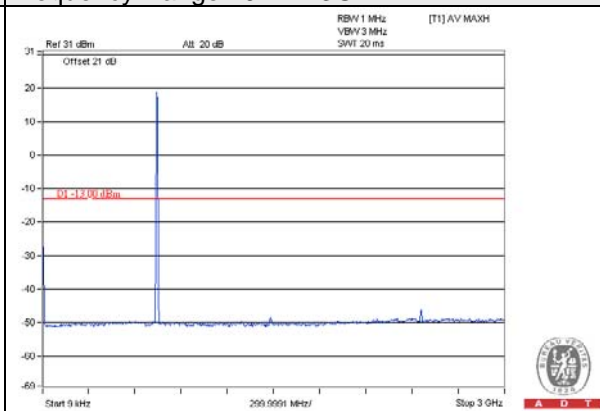
Chain 0

Frequency Range : 9kHz~3GHz

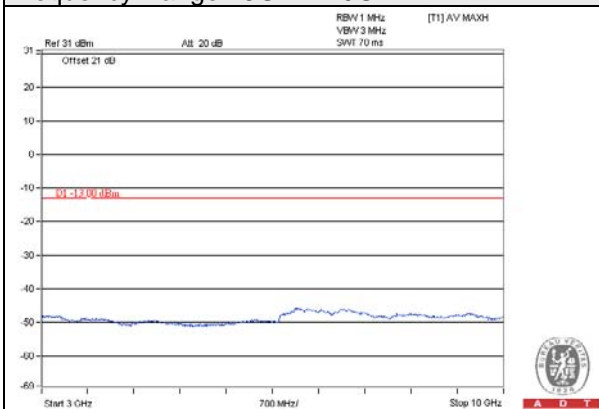


Chain 1

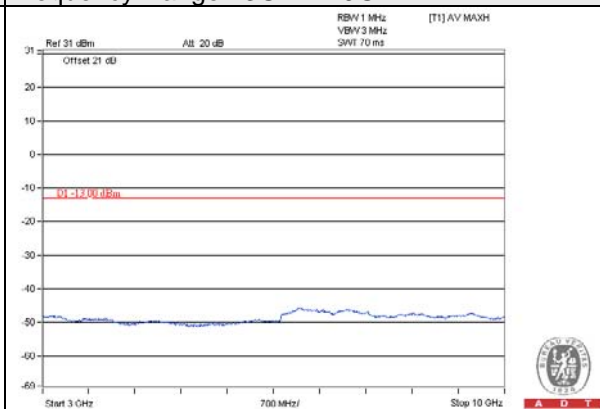
Frequency Range : 9kHz~3GHz



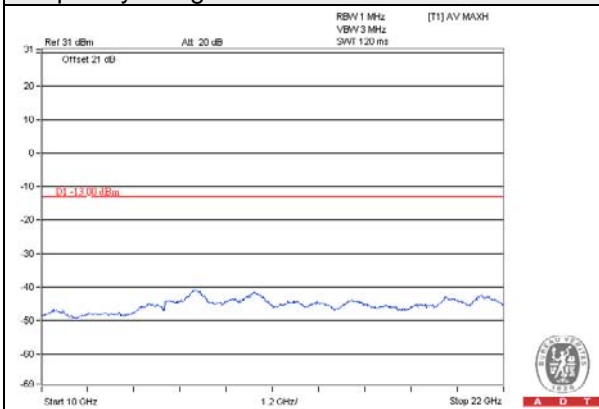
Frequency Range : 3GHz~10GHz



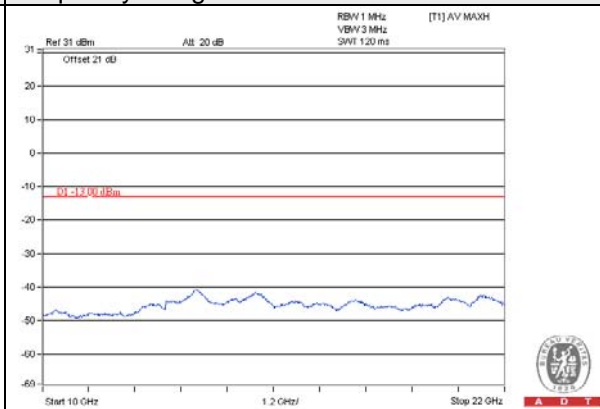
Frequency Range : 3GHz~10GHz



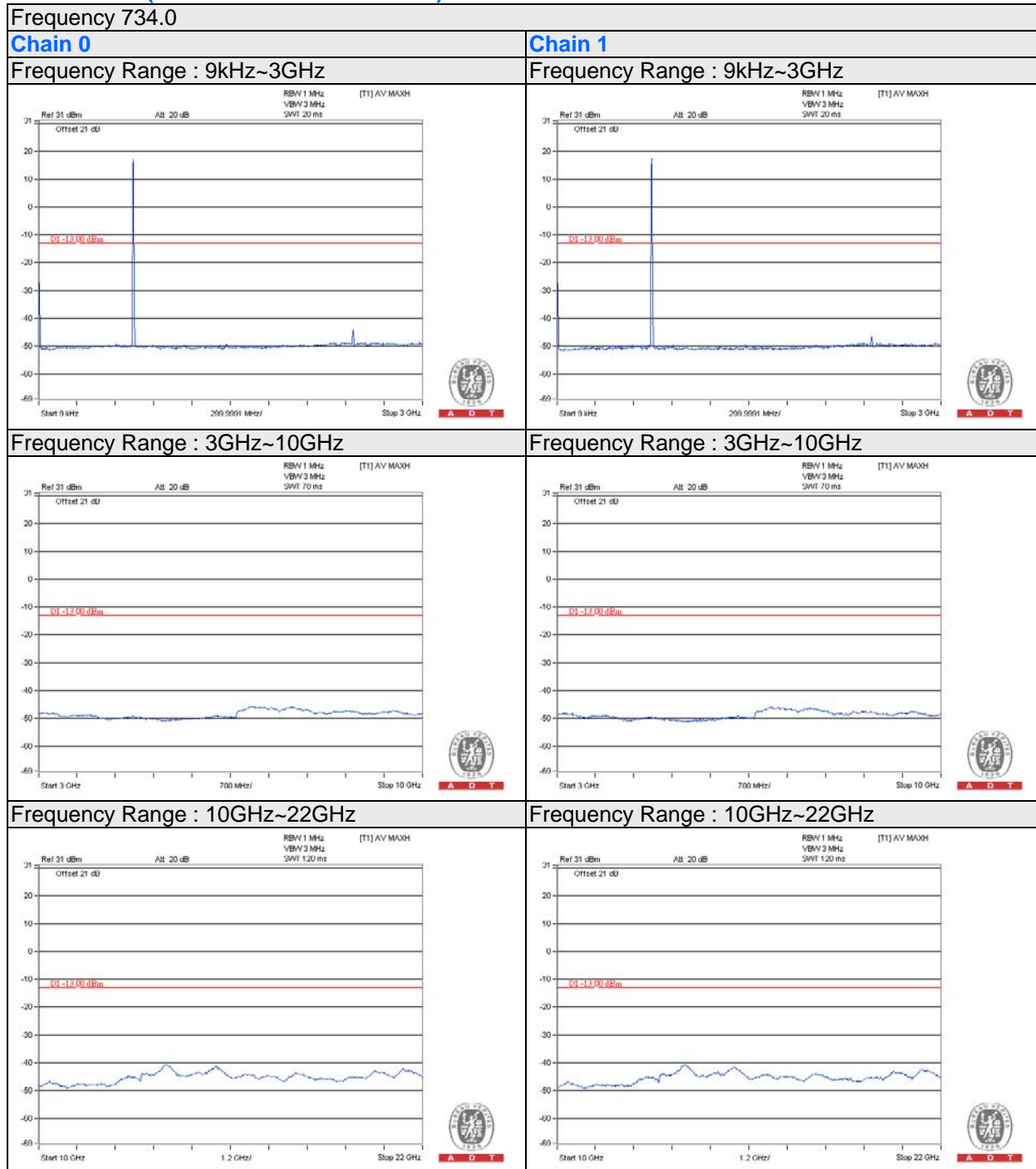
Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



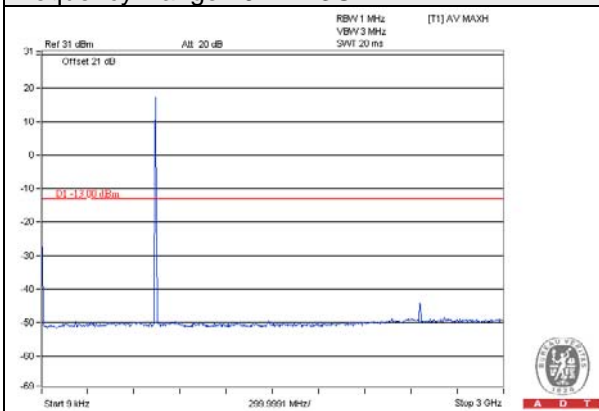
LTE Band 12 (Channel Bandwidth 10MHz): 64QAM



Frequency 737.0

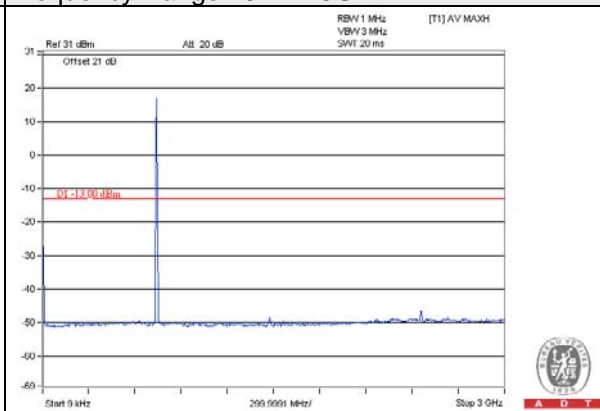
Chain 0

Frequency Range : 9kHz~3GHz

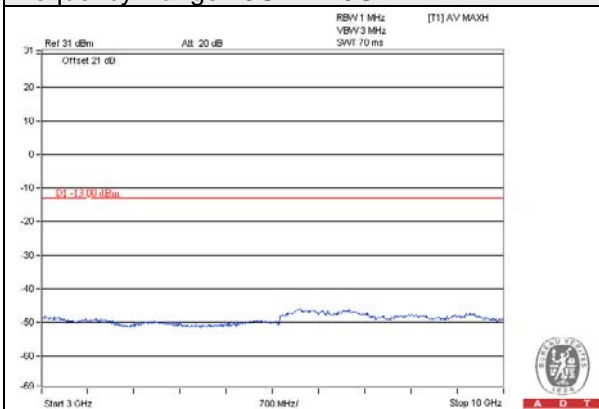


Chain 1

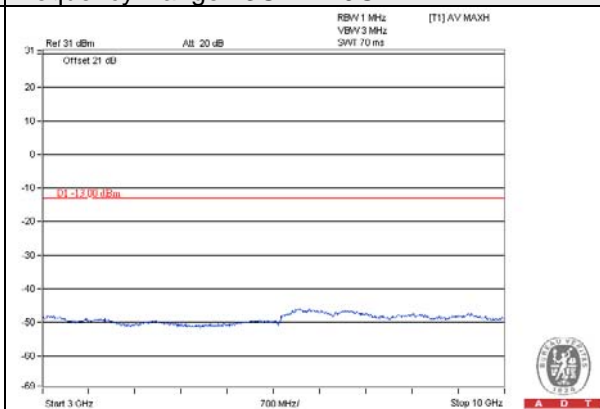
Frequency Range : 9kHz~3GHz



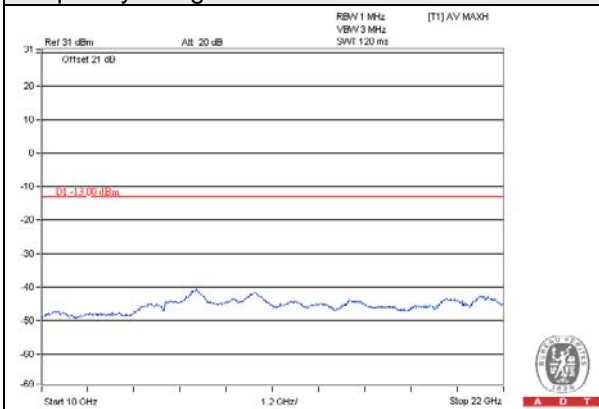
Frequency Range : 3GHz~10GHz



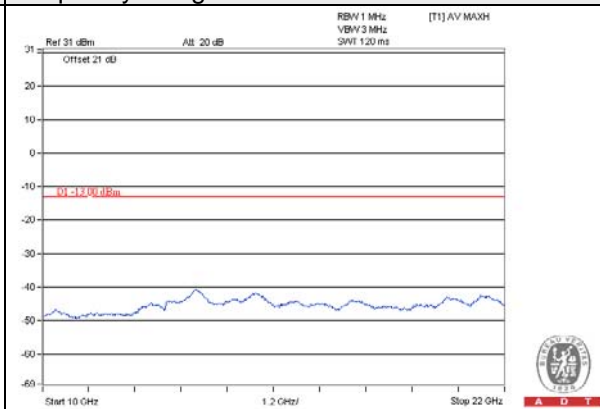
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



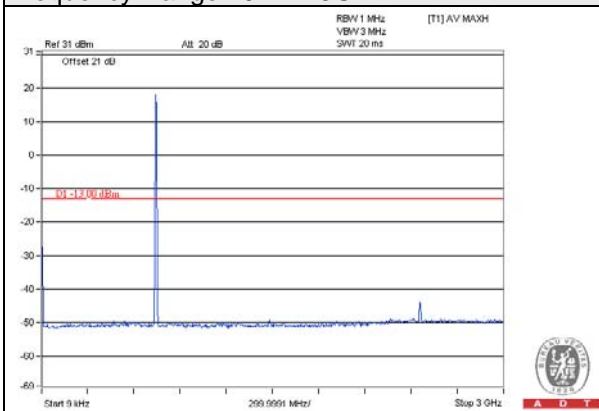
Frequency Range : 10GHz~22GHz



Frequency 740.0

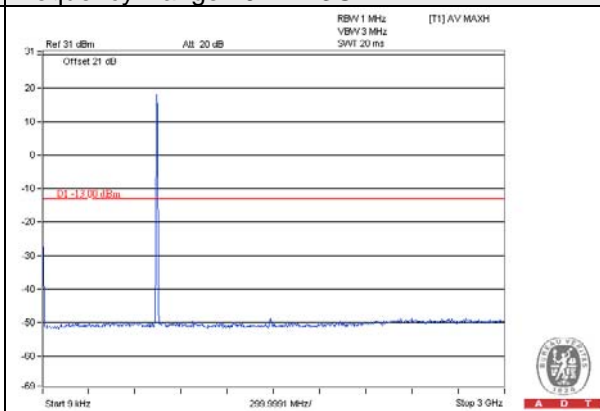
Chain 0

Frequency Range : 9kHz~3GHz

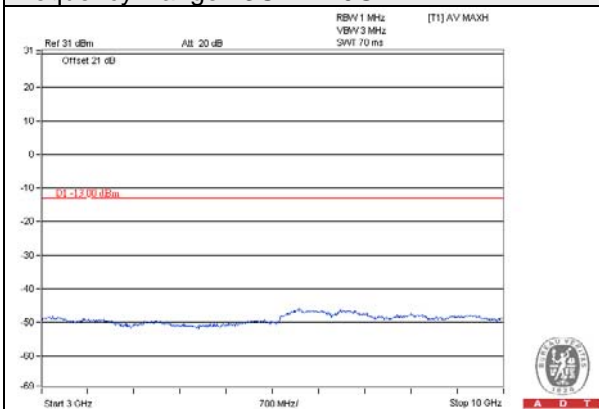


Chain 1

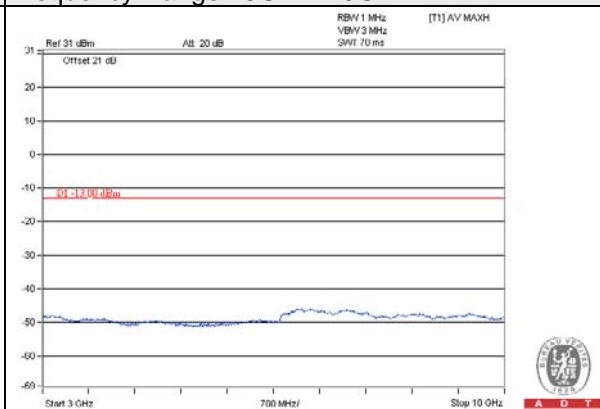
Frequency Range : 9kHz~3GHz



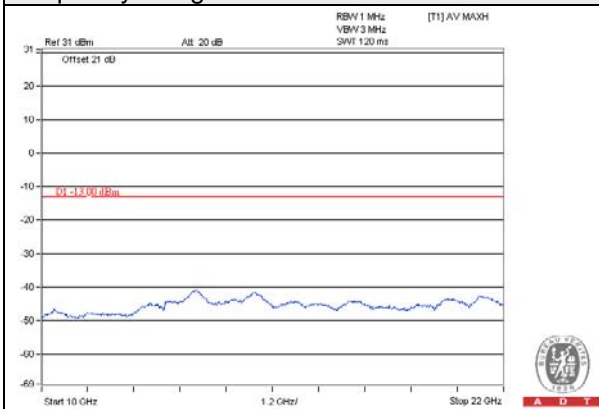
Frequency Range : 3GHz~10GHz



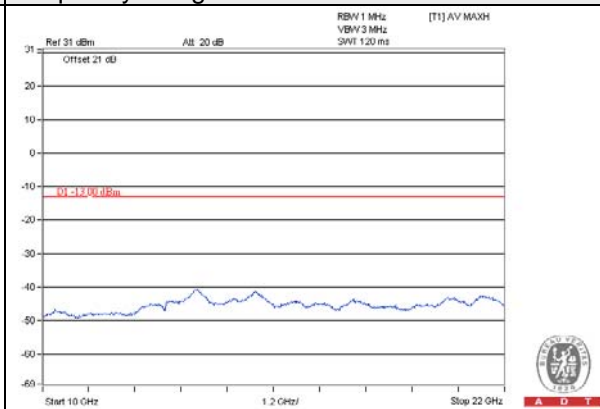
Frequency Range : 3GHz~10GHz



Frequency Range : 10GHz~22GHz



Frequency Range : 10GHz~22GHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

In the FCC 27.53(m) (4), On any frequency outside a licensee's frequency block, The power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB. The emission limit equal to -13dBm .

4.7.2 Test Procedure

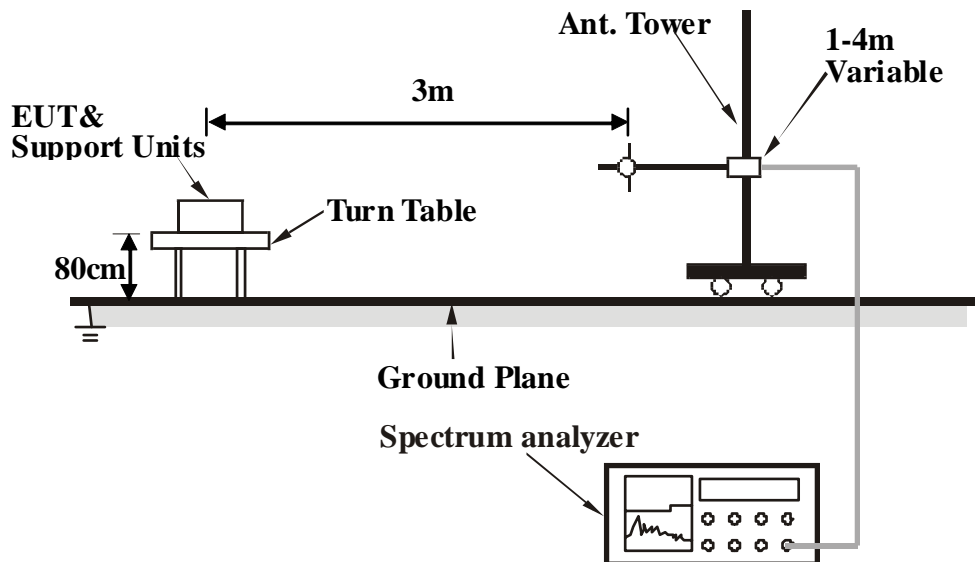
- a. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high channel of operational frequency range.)
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated 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. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step b. Record the power level of S.G
- d. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution antenna}$.

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

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



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

4.7.5 Test Results

Below 1GHz

LTE Band 4 (Channel Bandwidth 10MHz): 16QAM

Mode	TX channel 2150.0	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	49.40	-51.93	-55.24	6.78	-48.46	-13.00	-35.46
2	150.28	-51.97	-59.43	6.78	-52.65	-13.00	-39.65
3	282.20	-51.00	-61.71	6.78	-54.93	-13.00	-41.93
4	342.34	-47.74	-58.06	6.78	-51.28	-13.00	-38.28
5	472.32	-48.95	-56.96	6.78	-50.18	-13.00	-37.18
6	804.06	-48.30	-49.92	6.78	-43.14	-13.00	-30.14
7	891.36	-49.51	-50.41	6.78	-43.63	-13.00	-30.63

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	61.04	-49.72	-49.93	6.78	-43.15	-13.00	-30.15
2	148.34	-50.32	-56.74	6.78	-49.96	-13.00	-36.96
3	458.74	-49.61	-57.99	6.78	-51.21	-13.00	-38.21
4	547.98	-49.83	-55.76	6.78	-48.98	-13.00	-35.98
5	736.16	-49.44	-52.09	6.78	-45.31	-13.00	-32.31
6	825.40	-48.73	-50.42	6.78	-43.64	-13.00	-30.64
7	976.72	-49.72	-49.40	6.78	-42.62	-13.00	-29.62

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

**LTE Band 12 (Channel Bandwidth 10MHz): 16QAM**

Mode	TX channel 740.0	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	47.46	-48.45	-51.92	6.78	-45.14	-13.00	-32.14
2	113.42	-47.73	-57.38	6.78	-50.60	-13.00	-37.60
3	150.28	-48.67	-56.13	6.78	-49.35	-13.00	-36.35
4	247.28	-40.55	-53.50	6.78	-46.72	-13.00	-33.72
5	501.42	-46.31	-53.69	6.78	-46.91	-13.00	-33.91
6	978.66	-41.19	-40.74	6.78	-33.96	-13.00	-20.96

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	30.07	-21.94	-24.52	6.78	-17.74	-13.00	-4.74
2	53.28	-36.4	-37.77	6.78	-30.99	-13.00	-17.99
3	152.22	-48.17	-54.63	6.78	-47.85	-13.00	-34.85
4	255.04	-41.61	-52.84	6.78	-46.06	-13.00	-33.06
5	340.46	-48.69	-55.60	6.78	-48.82	-13.00	-35.82
6	505.37	-39.84	-46.88	6.78	-40.10	-13.00	-27.10
7	980.66	-35.48	-35.19	6.78	-28.41	-13.00	-15.41

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



ABOVE 1GHz

LTE Band 4 (Channel Bandwidth 10MHz): 16QAM

Mode	TX channel 2115.0	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3592.25	-44.70	-55.51	17.07	-38.44	-13.00	-25.44
2	4231.85	-32.32	-46.84	19.89	-26.95	-13.00	-13.95
3	4552.66	-43.25	-58.74	20.99	-37.75	-13.00	-24.75
4	6346.57	-41.04	-54.95	23.61	-31.34	-13.00	-18.34
5	9496.02	-43.49	-61.48	29.15	-32.33	-13.00	-19.33
6	10984.09	-45.09	-57.85	28.73	-29.12	-13.00	-16.12

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3592.01	-44.82	-55.48	17.07	-38.41	-13.00	-25.41
2	4231.97	-32.92	-47.13	19.89	-27.24	-13.00	-14.24
3	6346.58	-38.99	-52.85	23.61	-29.24	-13.00	-16.24
4	9304.06	-43.85	-62.39	29.07	-33.32	-13.00	-20.32
5	10984.07	-45.35	-58.23	28.73	-29.50	-13.00	-16.50
6	12712.00	-44.19	-59.82	31.99	-27.83	-13.00	-14.83

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



Mode	TX channel 2132.5	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3592.05	-44.81	-55.63	17.07	-38.56	-13.00	-25.56
2	4264.19	-41.78	-56.81	20.25	-36.56	-13.00	-23.56
3	6616.61	-45.64	-59.86	24.21	-35.65	-13.00	-22.65
4	8680.07	-44.44	-62.51	28.35	-34.16	-13.00	-21.16
5	9496.15	-43.48	-61.47	29.15	-32.32	-13.00	-19.32
6	10984.22	-45.30	-58.06	28.73	-29.33	-13.00	-16.33

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3592.05	-44.91	-55.57	17.07	-38.50	-13.00	-25.50
2	4264.11	-32.07	-46.73	20.25	-26.48	-13.00	-13.48
3	6376.06	-38.84	-52.70	23.67	-29.03	-13.00	-16.03
4	9496.23	-43.50	-62.09	29.15	-32.94	-13.00	-19.94
5	10984.49	-45.29	-58.15	28.72	-29.43	-13.00	-16.43
6	12712.10	-44.18	-59.81	31.99	-27.82	-13.00	-14.82

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



Mode	TX channel 2150.0	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3640.27	-44.64	-56.25	17.57	-38.68	-13.00	-25.68
2	4300.83	-42.33	-57.91	20.63	-37.28	-13.00	-24.28
3	6568.45	-45.85	-59.93	24.09	-35.84	-13.00	-22.84
4	8152.03	-44.89	-62.12	27.55	-34.57	-13.00	-21.57
5	9544.92	-43.40	-61.55	29.23	-32.32	-13.00	-19.32
6	10984.05	-45.25	-58.01	28.73	-29.28	-13.00	-16.28

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1	3592.77	-44.80	-55.44	17.07	-38.37	-13.00	-25.37
2	4300.85	-33.10	-48.23	20.63	-27.60	-13.00	-14.60
3	6424.41	-37.06	-50.92	23.76	-27.16	-13.00	-14.16
4	8728.06	-43.61	-62.02	28.40	-33.62	-13.00	-20.62
5	9544.02	-42.78	-61.48	29.23	-32.25	-13.00	-19.25
6	10984.19	-45.03	-57.91	28.73	-29.18	-13.00	-16.18

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

**LTE Band 12 (Channel Bandwidth 10MHz): 16QAM**

Mode	TX channel 734.0	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1468.23	-37.46	-51.30	11.76	-39.54	-13.00	-26.54
2	3592.11	-44.88	-55.70	17.07	-38.63	-13.00	-25.63
3	6616.26	-45.86	-60.08	24.21	-35.87	-13.00	-22.87
4	8152.05	-44.76	-61.99	27.55	-34.44	-13.00	-21.44
5	9496.81	-43.46	-61.45	29.15	-32.30	-13.00	-19.30
6	10984.09	-45.24	-58.00	28.73	-29.27	-13.00	-16.27

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1468.39	-28.60	-42.26	11.76	-30.50	-13.00	-17.50
2	2202.25	-41.39	-51.86	12.79	-39.07	-13.00	-26.07
3	3160.47	-42.10	-53.48	16.12	-37.36	-13.00	-24.36
4	3592.33	-44.84	-55.49	17.07	-38.42	-13.00	-25.42
5	6568.01	-45.76	-59.84	24.09	-35.75	-13.00	-22.75
6	8872.69	-43.86	-62.34	28.73	-33.61	-13.00	-20.61

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



Mode	TX channel 737.0	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1474.98	-43.33	-57.3	11.83	-45.47	-13.00	-32.47
2	3685.71	-44.19	-56.94	18.2	-38.74	-13.00	-25.74
3	6568.42	-45.90	-59.98	24.09	-35.89	-13.00	-22.89
4	9544.05	-43.44	-61.59	29.23	-32.36	-13.00	-19.36
5	10984.07	-45.32	-58.08	28.73	-29.35	-13.00	-16.35
6	12712.00	-44.21	-60.2	31.99	-28.21	-13.00	-15.21

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1474.11	-25.15	-38.89	11.82	-27.07	-13.00	-14.07
2	2211.34	-35.07	-45.51	12.83	-32.68	-13.00	-19.68
3	3160.76	-41.14	-52.52	16.12	-36.40	-13.00	-23.40
4	6520.28	-45.83	-59.72	23.93	-35.79	-13.00	-22.79
5	9496.30	-43.64	-62.23	29.15	-33.08	-13.00	-20.08
6	10984.00	-45.06	-57.94	28.73	-29.21	-13.00	-16.21

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



Mode	TX channel 740.0	Frequency Range	Above 1000MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1480.22	-40.85	-54.92	11.88	-43.04	-13.00	-30.04
2	3592.15	-44.93	-55.75	17.07	-38.68	-13.00	-25.68
3	6568.43	-45.92	-60.00	24.09	-35.91	-13.00	-22.91
4	9496.31	-43.41	-61.40	29.15	-32.25	-13.00	-19.25
5	10984.02	-45.25	-58.01	28.73	-29.28	-13.00	-16.28
6	12712.99	-44.24	-60.23	31.99	-28.24	-13.00	-15.24

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)
1	1480.23	-24.59	-38.41	11.88	-26.53	-13.00	-13.53
2	2220.88	-33.75	-44.16	12.87	-31.29	-13.00	-18.29
3	4888.71	-45.71	-58.71	21.01	-37.70	-13.00	-24.70
4	9544.00	-43.58	-62.28	29.23	-33.05	-13.00	-20.05
5	10984.19	-45.48	-58.36	28.73	-29.63	-13.00	-16.63
6	12712.32	-44.15	-59.78	31.99	-27.79	-13.00	-14.79

Remarks:

1. Output Power (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

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





Appendix – Information on the Testing Laboratories

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

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

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

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