

TEST REPORT

REPORT NUMBER: B19W50128-WWAN

ON

Type of Equipment: LTE Wireless Module
Model Name: BM816
Manufacturer: Suzhou wutong intelligent electronics co. LTD

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS;

PART 22, PUBLIC MOBILE SERVICES;

PART 24, PERSONAL COMMUNICATIONS SERVICES;

PART 27, MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES.

Chongqing Academy of Information and Communications Technology

Month date, year

May, 24, 2019

Signature



Zhang Yan

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Revision Version

Report Number	Revision	Date	Memo
B19W50128-WWAN	V0.0	2019-05-24	--

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

FCC ID: 2AON8-BM816

Report Date: 2019-05-24

Test Firm Name: Chongqing Academy of Information and Communications Technology

FCC Registration Number: CN1239

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22, 24, 27, The sample tested was found to comply with the requirements defined in the applied rules.

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

CONTENTS

1 GENERAL INFORMATION	4
1.1 NOTES	4
1.2 TESTERS	5
1.3 TESTING LABORATORY INFORMATION	6
1.4 DETAILS OF APPLICANT OR MANUFACTURER	7
2 TEST ITEM	8
2.1 GENERAL INFORMATION	8
2.2 OUTLINE OF EQUIPMENT UNDER TEST.....	8
2.3 MODIFICATIONS INCORPORATED IN EUT	9
2.4 EQUIPMENT CONFIGURATION	9
2.5 OTHER INFORMATION	9
3 SUMMARY OF TEST RESULTS.....	10
4 TEST EQUIPMENTS AND ANCILLARIES USED FOR TESTS	11
5 TEST RESULTS	12
5.1 CONDUCTED RF POWER OUTPUT	12
5.2 OCCUPIED BANDWIDTH	43
5.3 CONDUCTED SPURIOUS EMISSION	116
5.4 RADIATED SPURIOUS EMISSION	171
5.5 BAND EDGE	229
5.6 FREQUENCY STABILITY OVER TEMPERATURE VARIATION	343
5.7 FREQUENCY STABILITY OVER VOLTAGE VARIATION	346
5.8 PEAK TO AVERAGE RATIO	349
5.9 ERP AND EIRP	365
ANNEX A EUT PHOTOS.....	367
ANNEX B DEVIATIONS FROM PRESCRIBED TEST METHODS	383

1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC CFR 47 Parts 2, 22, 24, 27.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B.

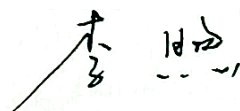
Chongqing Academy of Information and Communications Technology authorizes the applicant or manufacturer (see section 1.4) to reproduce this report provided, and the test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of Chongqing Academy of Information and Communications Technology. Mr. Zhang Yan.

Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Chongqing Institute of Telecommunications accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

1.2 Testers

Name: Li Xu
Position: Engineer
Department: Department of RF test
Date: 2019-03-30 to 2019-05-24

Signature:



Editor of this test report:

Name: Chen Wen
Position: Engineer
Department: Department of RF test
Date: 2019-05-24

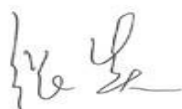
Signature:



Technical responsibility for area of testing:

Name: Zhang Yan
Position: Manager
Department: Director of the laboratory
Date: 2019-05-24

Signature:



Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

1.3 Testing Laboratory information

1.3.1 Location

Name: Chongqing Academy of Information and Communications Technology

Address: Building B, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China, 401336

Tel: +86-23-88069965

Fax: +86-23-88608777

Email: liqiao@caict.ac.cn

1.3.2 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Suzhou wutong intelligent electronics co. LTD
Address: 2596 Taidong Road, Caohu Street, Xiangcheng Economic
Development Area,Suzhou, China
Country: China
Telephone: +86-15191864870
Fax: --
Contact: wuting
Telephone: +86-15191864870
Email: --

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: -----
Address: -----
Country: -----
Telephone: -----
Fax: -----
Contact: -----
Telephone: -----
Email: -----

2 Test Item

2.1 General Information

Manufacturer: Suzhou wutong intelligent electronics co. LTD
Type of Equipment: LTE Wireless Module
Model Name: BM816
Production Status: Product
Hardware Version: V2.0
Software Version: M1.0.1_E1.0.0.0_A1.0.1
Receipt date of test item: 2019-03-29

2.2 Outline of Equipment under Test

The BM816 referred to as “EUT” hereafter, is a multi-Band wireless module operating on the GSM/WCDMA/LTE networks. The table below shows the supported Bands for the EUT.

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
GSM	GSM850	824 – 849	869 – 894	--
	PCS1900	1850 – 1910	1930 – 1990	--
WCDMA	B2	1850 – 1910	1930 – 1990	--
	B4	1710-1755	2110-2155	
	B5	824 – 849	869 – 894	--
LTE	B2	1850 – 1910	1930 – 1990	--
	B4	1710 – 1755	2110 – 2155	--
	B5	824 – 849	869 – 894	--
	B12	699-716	729-746	--
	B13	746-756	777-787	--
	B17	704-716	734-746	--

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Modules	Suzhou wutong intelligent electronics co. LTD	BM816	3175018113010045	None
C	Adaptor	None	None	--	None

2.5 Other Information

--

3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
2.1046, 22.913(a) 24.232(c), 27.50	Conducted RF Power Output	Pass
2.1049, 22.917(b), 24.238(b)	Occupied Bandwidth	*Note 1
2.1051, 2.1053 22.917, 24.238 27.53	Conducted spurious emissions	Pass
2.1051, 2.1053 22.917, 24.238 27.53	Radiated Spurious Emission	Pass
2.1051, 2.1053 22.917, 24.238 27.53	Band Edge	Pass
2.1055, 22.355 24.235, 27.54	Frequency Stability over Temperature Variation	Pass
2.1055, 22.355 24.235, 27.54	Frequency Stability over Voltage Variation	Pass
24.232, 27.50	Peak to Average Ratio	Pass
22.913(a), 24.232(b)	ERP and EIRP	Pass
Note 1: No applicable performance criteria.		

4 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

No.	Equipment	Model	SN	Manufacture	Cal. Due Date
1	EMI Test Receiver	ESU26	100367	R&S	2020-03-01
2	Trilog super broadBand test antenna	VULB 9163	9163-544	R&S	2019-11-24
3	Double-Ridged Horn Antenna	HF907	100357	R&S	2019-6-22
4	Fully-Anechoic Chamber	11.8m×6.5m×6.3m	--	ETS	2020-8-20
5	Universal Radio Communication Tester	CMW500	152395	R&S	2020-03-01
6	Signal Generator	SMU200A	104517	R&S	2020-03-01
7	spectrum analyzer	FSQ 26	201137/026	R&S	2020-03-01
8	spectrum analyzer	N9020A	MY50200376	Agilent	2020-03-01
9	Universal Radio Communication Tester	CMU200	112012	R&S	2020-03-01
10	Climate chamber	SH-241	92010759	ESPEC	2020-03-01
11	DC Power Supply	N6705B	MY50000919	Agilent	2019-12-05
12	Ultra Wideband Antenna	SWB-VU LB 9163	00995	R&S	2019-06-04

5 Test Results

5.1 Conducted RF Power Output

Specifications:	FCC Part 2.1046, 22.913(a), 24.232(c), 27.50
DUT Serial Number:	868020030062938
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 22.913(a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

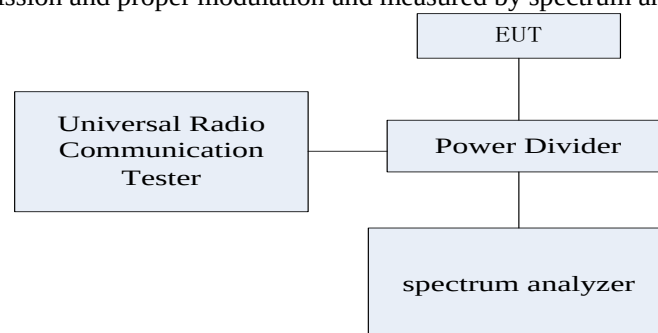
According to Part 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to Part 27.50(c), portable stations (hand-held devices) in the 600 MHz uplink Band and the 698-746 MHz Band, and fixed and mobile stations in the 600 MHz uplink Band are limited to 3 watts ERP.

According to Part 27.50(d), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz Band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz Bands are limited to 1 watt EIRP.

Test Setup:

During the test, the EUT was controlled via the Wireless Telecommunications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method:

- 1) The EUT was coupled to the spectrum analyzer and the Wireless Telecommunications Test Set through a power divider. The loss of the RF cables of the test system is calibrated to correct the readings.
- 2) For RMS power test, the spectrum analyzer was set to RMS Detector function and Maximum hold mode.
- 3) For Peak power test, the spectrum analyzer was set to Maxpeak Detector function and

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Maximum hold mode.

4) The resolution Bandwidth of the spectrum analyzer was comparable to the emission Bandwidth.

Note: --

5.1.1 GSM850 Conducted RF Power Output Results

GPRS GMSK Mode:

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	33.74	31.76	30.38	29.39
190 (836.6MHz)	33.87	31.68	30.74	29.30
251 (848.8MHz)	33.80	31.65	30.53	29.59

EGPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	33.67	31.73	30.66	29.55
190 (836.6MHz)	33.81	31.87	30.85	29.59
251 (848.8MHz)	33.72	32.02	30.77	29.60

EGPRS 8PSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	27.40	25.38	24.42	23.38
190 (836.6MHz)	27.57	25.43	24.45	23.45
251 (848.8MHz)	27.48	25.48	24.47	23.37

GPRS GMSK Mode:

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	33.46	31.55	30.07	29.14
190 (836.6MHz)	33.55	31.40	30.58	29.35
251 (848.8MHz)	33.77	31.46	30.33	29.28

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

EGPRS GMSK Mode

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	33.48	31.59	30.43	29.46
190 (836.6MHz)	33.52	31.63	30.68	29.28
251 (848.8MHz)	33.47	31.87	30.51	29.57

EGPRS 8PSK Mode

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	27.27	25.55	24.27	23.17
190 (836.6MHz)	27.33	25.27	24.25	23.19
251 (848.8MHz)	27.29	25.35	24.23	23.07

5.1.2 PCS1900 Conducted RF Power Output Results

GPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.57	28.03	27.44	26.42
661 (1880.0MHz)	29.66	28.07	26.95	26.23
810 (1909.8MHz)	30.37	28.62	27.51	26.80

EGPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.56	28.19	27.13	26.54
661 (1880.0MHz)	29.72	28.12	27.14	26.47
810 (1909.8MHz)	30.33	28.63	27.54	26.80

EGPRS 8PSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	24.67	23.26	22.22	21.13
661 (1880.0MHz)	24.49	23.07	22.25	20.95
810 (1909.8MHz)	24.83	23.45	22.34	21.24

GPRS GMSK Mode

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.36	27.89	26.78	26.22
661 (1880.0MHz)	29.35	27.87	26.81	26.09
810 (1909.8MHz)	30.07	28.52	27.37	26.57

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

EGPRS GMSK Mode

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.36	27.99	26.97	26.36
661 (1880.0MHz)	29.49	28.74	26.97	26.26
810 (1909.8MHz)	30.12	28.46	27.35	26.62

EGPRS 8PSK Mode

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	24.37	23.87	22.19	21.74
661 (1880.0MHz)	24.12	22.76	21.85	20.62
810 (1909.8MHz)	24.65	23.28	22.03	21.09

5.1.3 WCDMA Band2 Conducted RF Power Output Results

		Maximum output power(pk) [dBm]			Maximum output power(RMS) [dBm]		
Mode	3GPP Subtest	9262	9400	9538	9262	9400	9538
RMC	--	26.72	26.97	26.82	22.57	22.25	22.35
HSDPA	1	26.10	25.78	25.91	21.16	21.17	21.26
	2	25.77	25.65	25.87	20.93	21.16	21.19
	3	25.52	25.17	25.29	20.67	20.65	20.63
	4	25.82	25.61	26.55	20.56	20.77	20.77
HSUPA (QPSK)	1	25.76	25.29	25.31	21.15	21.17	21.24
	2	25.45	25.84	25.57	20.99	21.15	21.11
	3	25.90	25.74	26.63	20.67	20.76	20.68
	4	26.02	25.83	25.56	20.53	20.74	20.75
	5	25.92	25.87	25.69	20.57	20.62	20.62
HSUPA (16QAM)	1	25.30	25.19	25.44	21.11	21.21	21.16
	2	25.18	25.37	25.51	20.99	21.19	21.09
	3	25.22	25.09	25.32	20.52	20.77	20.67
	4	25.15	25.07	25.27	20.59	20.85	20.75
	5	25.33	25.26	25.18	20.66	20.74	20.68

5.1.3 WCDMA Band4 Conducted RF Power Output Results

		Maximum output power(pk) [dBm]			Maximum output power(RMS) [dBm]		
Mode	3GPP Subtest	1312	1412	1512	1312	1412	1512
RMC	--	26.49	26.88	26.73	22.57	22.65	22.69
HSDPA	1	25.53	25.49	26.70	21.45	21.43	21.55
	2	25.62	25.38	25.48	21.76	21.67	21.52
	3	25.57	25.66	25.74	21.24	21.14	21.17
	4	26.10	25.68	25.51	20.92	21.00	21.02
HSUPA (QPSK)	1	25.86	25.57	25.62	21.44	21.49	21.56
	2	25.36	25.44	25.69	21.78	21.67	21.58
	3	25.85	25.60	25.52	21.29	21.17	21.14
	4	25.37	25.66	25.74	20.92	21.04	21.07

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

	5	25.57	25.42	25.36	20.99	21.08	20.90
HSUPA (16QAM)	1	25.25	25.19	25.43	21.47	21.57	21.41
	2	25.53	25.28	25.17	21.65	21.69	21.55
	3	25.44	25.31	25.08	21.33	21.22	21.18
	4	25.37	25.42	25.15	21.04	21.07	21.78
	5	25.39	25.47	25.21	20.99	21.09	20.92

5.1.4 WCDMA Band5 Conducted RF Power Output Results

		Maximum output power(pk) [dBm]			Maximum output power(RMS) [dBm]		
Mode	3GPP Subtest	4132	4182	4233	4132	4182	4233
RMC	--	27.25	27.06	26.92	23.22	23.25	23.36
HSDPA	1	26.11	25.85	26.02	22.37	22.32	22.39
	2	25.77	25.89	25.65	22.34	22.26	22.23
	3	25.87	25.43	25.72	21.81	21.69	21.88
	4	25.69	25.74	26.55	21.79	21.67	21.72
HSUPA (QPSK)	1	25.43	25.62	25.84	22.36	22.36	22.35
	2	25.49	25.57	25.83	22.33	22.21	22.27
	3	25.75	25.90	26.52	21.82	21.69	21.86
	4	25.67	25.55	25.37	21.75	21.67	21.74
	5	25.71	25.64	25.78	21.79	21.65	21.60
HSUPA (16QAM)	1	25.33	25.28	25.40	22.27	22.21	22.27
	2	25.61	25.32	25.45	22.44	22.35	22.25
	3	25.56	25.25	25.28	21.86	21.79	21.88
	4	25.39	25.17	25.44	21.78	21.67	21.76
	5	25.42	25.24	25.19	21.79	21.84	21.74

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

5.1.5 LTE B2 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
18607	1850.7	1	0	QPSK	21.04	25.36	4.32
		1	2		21.16	25.19	4.03
		1	5		21.04	25.11	4.07
		6	0		19.80	25.20	5.40
		1	0	16QAM	19.98	25.26	5.28
		1	2		20.04	25.25	5.21
		1	5		19.99	25.14	5.15
		6	0		18.77	24.90	6.13
18900	1880	1	0	QPSK	20.60	24.58	3.98
		1	2		20.66	24.55	3.89
		1	5		21.83	25.99	4.16
		6	0		20.75	25.93	5.18
		1	0	16QAM	20.91	26.12	5.21
		1	2		20.96	26.07	5.11
		1	5		20.80	25.88	5.08
		6	0		19.87	26.05	6.18
19193	1909.3	1	0	QPSK	21.60	26.10	4.50
		1	2		21.54	25.99	4.45
		1	5		21.48	25.96	4.48
		6	0		20.62	26.01	5.39
		1	0	16QAM	21.02	26.04	5.02
		1	2		21.14	25.97	4.83
		1	5		20.98	25.95	4.97
		6	0		20.02	25.73	5.71

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
18615	1851.5	1	0	QPSK	21.65	26.28	4.63
		1	8		21.50	25.93	4.43
		1	15		21.60	26.13	4.53
		15	0		20.70	26.64	5.94
		1	0	16QAM	20.60	25.99	5.39
		1	8		20.32	25.75	5.43
		1	15		20.34	25.84	5.50
		15	0		19.67	25.99	6.32
		1	0	QPSK	21.74	26.20	4.46
		1	8		21.88	26.07	4.19
		1	15		21.84	25.99	4.15
		15	0		21.10	26.15	5.05
18900	1880	1	0	QPSK	20.87	25.86	4.99
		1	8		20.97	25.79	4.82
		1	15		20.91	25.73	4.82
		15	0		20.21	25.98	5.77
		1	0	16QAM	21.79	25.59	3.80
		1	8		21.92	26.30	4.38
		1	15		21.64	26.11	4.47
		15	0		20.89	25.94	5.05
		1	0	16QAM	21.48	26.54	5.06
		1	8		21.37	26.21	4.84
		1	15		21.38	26.27	4.89
		15	0		20.42	26.28	5.86
19185	1908.5	1	0	QPSK	21.79	25.59	3.80
		1	8		21.92	26.30	4.38
		1	15		21.64	26.11	4.47
		15	0		20.89	25.94	5.05
		1	0	16QAM	21.48	26.54	5.06
		1	8		21.37	26.21	4.84
		1	15		21.38	26.27	4.89
		15	0		20.42	26.28	5.86

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
18625	1852.5	1	0	QPSK	21.33	26.01	4.68
		1	13		21.48	26.03	4.55
		1	24		21.45	25.97	4.52
		25	0		20.74	26.27	5.53
		1	0	16QAM	20.20	25.72	5.52
		1	13		20.02	25.83	5.81
		1	24		20.03	25.73	5.70
		25	0		19.80	26.06	6.26
18900	1880	1	0	QPSK	21.55	26.05	4.50
		1	13		21.72	25.95	4.23
		1	24		21.65	25.82	4.17
		25	0		20.81	26.42	5.61
		1	0	16QAM	21.24	26.25	5.01
		1	13		21.20	26.12	4.92
		1	24		21.10	25.90	4.80
		25	0		19.79	26.30	6.51
19175	1907.5	1	0	QPSK	21.51	25.97	4.46
		1	13		21.50	25.60	4.10
		1	24		21.40	25.61	4.21
		25	0		20.68	26.20	5.52
		1	0	16QAM	21.00	26.15	5.15
		1	13		21.19	26.07	4.88
		1	24		21.05	25.90	4.85
		25	0		19.86	26.30	6.44

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
18650	1855	1	0	QPSK	21.40	26.23	4.83
		1	25		21.66	26.19	4.53
		1	49		21.44	26.15	4.71
		50	0		20.85	25.99	5.14
		1	0	16QAM	20.88	25.99	5.11
		1	25		21.55	26.43	4.88
		1	49		20.43	25.79	5.36
		27	0		19.80	26.64	6.84
18900	1880	1	0	QPSK	21.45	26.08	4.63
		1	25		21.67	26.01	4.34
		1	49		21.61	25.71	4.10
		50	0		20.63	25.84	5.21
		1	0	16QAM	21.27	26.31	5.04
		1	25		21.19	25.98	4.79
		1	49		21.25	25.80	4.55
		27	0		20.00	25.91	5.91
19150	1905	1	0	QPSK	21.72	26.40	4.68
		1	25		21.89	26.51	4.62
		1	49		21.63	26.05	4.42
		50	0		20.73	25.83	5.10
		1	0	16QAM	20.24	25.92	5.68
		1	25		21.23	26.82	5.59
		1	49		20.77	26.17	5.40
		27	0		19.80	26.21	6.41

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
18675	1857.5	1	0	QPSK	21.52	26.04	4.52
		1	38		21.45	26.11	4.66
		1	74		21.39	26.06	4.67
		75	0		20.65	26.28	5.63
		1	0	16QAM	20.78	25.83	5.05
		1	38		20.85	26.01	5.16
		1	74		20.72	26.03	5.31
		27	0		19.95	26.14	6.19
18900	1880	1	0	QPSK	21.55	26.28	4.73
		1	38		21.62	25.98	4.36
		1	74		21.41	25.62	4.21
		75	0		20.73	26.03	5.30
		1	0	16QAM	21.29	26.34	5.05
		1	38		21.62	26.12	4.50
		1	74		21.25	25.72	4.47
		27	0		20.01	25.92	5.91
19125	1902.5	1	0	QPSK	21.25	25.94	4.69
		1	38		21.46	26.14	4.68
		1	74		21.44	25.93	4.49
		75	0		20.78	26.46	5.68
		1	0	16QAM	20.07	25.49	5.42
		1	38		20.45	25.82	5.37
		1	74		20.72	25.90	5.18
		27	0		19.74	26.15	6.41

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (20MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
18700	1860	1	0	QPSK	21.23	25.75	4.52
		1	50		21.37	26.05	4.68
		1	99		21.25	25.87	4.62
		100	0		20.55	26.57	6.02
		1	0	16QAM	21.22	26.35	5.13
		1	50		20.86	26.36	5.50
		1	99		21.09	26.46	5.37
		27	0		19.65	26.57	6.92
18900	1880	1	0	QPSK	21.65	26.34	4.69
		1	50		21.89	26.07	4.18
		1	99		21.65	25.76	4.11
		100	0		20.78	26.19	5.41
		1	0	16QAM	20.81	26.28	5.47
		1	50		20.93	25.95	5.02
		1	99		20.57	25.62	5.05
		27	0		19.79	26.14	6.35
19100	1900	1	0	QPSK	21.71	26.04	4.33
		1	50		22.20	26.88	4.68
		1	99		21.72	26.19	4.47
		100	0		20.88	26.85	5.97
		1	0	16QAM	21.34	26.03	4.69
		1	50		21.63	26.66	5.03
		1	99		22.01	26.79	4.78
		27	0		19.87	26.78	6.91

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

5.1.6 LTE B4 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
19957	1710.7	1	0	QPSK	22.33	27.09	4.76
		1	2		22.46	27.15	4.69
		1	5		22.29	27.05	4.76
		6	0		21.56	27.02	5.46
		1	0	16QAM	22.13	27.40	5.27
		1	2		22.12	27.23	5.11
		1	5		22.07	27.36	5.29
		6	0		20.45	27.01	6.56
		1	0	QPSK	26.08	26.84	0.76
		1	2		21.27	26.98	5.71
20175	1732.5	1	5		21.13	26.87	5.74
		6	0		20.46	26.81	6.35
		1	0	16QAM	21.04	26.82	5.78
		1	2		21.08	26.91	5.83
		1	5		21.09	26.83	5.74
		6	0		20.24	26.77	6.53
		1	0	QPSK	22.56	27.40	4.84
		1	2		22.43	27.23	4.80
		1	5		22.64	27.47	4.83
		6	0		21.39	26.93	5.54
20393	1754.3	1	0	16QAM	21.63	27.41	5.78
		1	2		21.65	27.40	5.75
		1	5		21.52	27.32	5.80
		6	0		20.41	26.97	6.56

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
19965	1711.5	1	0	QPSK	22.41	27.17	4.76
		1	8		22.46	27.07	4.61
		1	15		22.30	27.06	4.76
		15	0		21.49	26.98	5.49
		1	0	16QAM	22.00	27.33	5.33
		1	8		22.17	27.27	5.10
		1	15		22.01	27.37	5.36
		15	0		20.57	26.97	6.40
20175	1732.5	1	0	QPSK	22.38	27.17	4.79
		1	8		22.49	27.12	4.63
		1	15		22.43	27.15	4.72
		15	0		21.46	27.12	5.66
		1	0	16QAM	20.85	26.61	5.76
		1	8		21.27	26.99	5.72
		1	15		21.13	26.86	5.73
		15	0		20.46	27.02	6.56
20385	1753.5	1	0	QPSK	22.43	27.38	4.95
		1	8		22.69	27.45	4.76
		1	15		22.32	27.30	4.98
		15	0		21.35	26.96	5.61
		1	0	16QAM	21.41	26.76	5.35
		1	8		21.44	26.78	5.34
		1	15		21.47	26.87	5.40
		15	0		20.48	27.39	6.91

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
19975	1712.5	1	0	QPSK	22.31	27.16	4.85
		1	13		22.35	27.00	4.65
		1	24		22.36	27.17	4.81
		25	0		21.53	27.32	5.79
		1	0	16QAM	20.91	26.99	6.08
		1	13		20.63	26.54	5.91
		1	24		20.83	26.89	6.06
		25	0		20.57	27.29	6.72
20175	1732.5	1	0	QPSK	22.24	26.98	4.74
		1	13		22.23	26.88	4.65
		1	24		22.30	27.03	4.73
		25	0		21.41	27.19	5.78
		1	0	16QAM	21.57	26.98	5.41
		1	13		21.57	26.97	5.40
		1	24		21.54	27.04	5.50
		25	0		20.44	27.28	6.84
20375	1752.5	1	0	QPSK	22.28	27.08	4.80
		1	13		22.48	27.13	4.65
		1	24		22.47	27.36	4.89
		25	0		21.42	27.13	5.71
		1	0	16QAM	21.07	26.81	5.74
		1	13		21.05	26.83	5.78
		1	24		21.15	26.87	5.72
		25	0		20.35	27.25	6.90

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20000	1715	1	0	QPSK	22.45	27.36	4.91
		1	25		22.53	27.18	4.65
		1	49		22.47	27.25	4.78
		50	0		21.60	26.94	5.34
		1	0	16QAM	21.85	27.19	5.34
		1	25		22.03	27.14	5.11
		1	49		21.51	26.86	5.35
		27	0		20.56	27.74	7.18
		1	0	QPSK	22.40	27.27	4.87
		1	25		22.49	27.22	4.73
20175	1732.5	1	49		22.42	27.27	4.85
		50	0		21.44	27.36	5.92
		1	0	16QAM	21.97	27.39	5.42
		1	25		22.02	27.15	5.13
		1	49		21.96	27.32	5.36
		27	0		20.41	27.24	6.83
20350	1750	1	0	QPSK	22.42	27.26	4.84
		1	25		22.72	27.38	4.66
		1	49		22.53	27.37	4.84
		50	0		21.54	27.35	5.81
		1	0	16QAM	21.08	26.83	5.75
		1	25		21.08	27.00	5.92
		1	49		21.09	27.02	5.93
		27	0		20.51	27.34	6.83
		1	0		22.42	27.26	4.84
		1	25		22.72	27.38	4.66

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20025	1717.5	1	0	QPSK	22.33	27.16	4.83
		1	38		22.23	26.92	4.69
		1	74		22.22	27.06	4.84
		75	0		21.30	27.15	5.85
		1	0	16QAM	21.36	26.90	5.54
		1	38		21.36	26.75	5.39
		1	74		21.25	26.83	5.58
		27	0		20.40	27.12	6.72
		1	0	QPSK	22.88	27.37	4.49
		1	38		22.86	27.15	4.29
20175	1732.5	1	74		22.90	27.40	4.50
		75	0		22.01	27.63	5.62
		1	0	16QAM	21.83	27.14	5.31
		1	38		21.78	26.96	5.18
		1	74		21.78	27.12	5.34
		27	0		20.92	27.08	6.16
20325	1747.5	1	0	QPSK	22.98	27.74	4.76
		1	38		22.66	27.37	4.71
		1	74		22.74	27.51	4.77
		75	0		21.88	27.66	5.78
		1	0	16QAM	22.07	27.35	5.28
		1	38		21.90	27.11	5.21
		1	74		22.10	27.36	5.26
		27	0		20.98	27.21	6.23

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (20MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20050	1720	1	0	QPSK	22.98	27.57	4.59
		1	50		22.80	27.42	4.62
		1	99		22.81	27.42	4.61
		100	0		21.87	27.42	5.55
		1	0	16QAM	21.71	27.30	5.59
		1	50		21.64	27.21	5.57
		1	99		21.30	26.91	5.61
		27	0		20.95	27.03	6.08
20175	1732.5	1	0	QPSK	22.66	27.40	4.74
		1	50		22.56	27.34	4.78
		1	99		22.45	27.25	4.80
		100	0		21.84	27.59	5.75
		1	0	16QAM	22.63	27.68	5.05
		1	50		22.55	27.48	4.93
		1	99		22.39	27.56	5.17
		27	0		20.89	27.05	6.16
20300	1745	1	0	QPSK	22.76	27.48	4.72
		1	50		22.93	27.50	4.57
		1	99		22.56	27.34	4.78
		100	0		21.78	27.30	5.52
		1	0	16QAM	22.44	27.76	5.32
		1	50		22.46	27.69	5.23
		1	99		22.53	27.91	5.38
		27	0		20.87	27.08	6.21

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

5.1.7 LTE B5 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20407	824.7	1	0	QPSK	23.28	27.51	4.23
		1	2		23.50	27.58	4.08
		1	5		23.25	27.53	4.28
		6	0		22.12	27.45	5.33
		1	0	16QAM	22.17	27.42	5.25
		1	2		22.49	27.56	5.07
		1	5		22.30	27.46	5.16
		6	0		21.11	27.43	6.32
		1	0	QPSK	23.23	27.21	3.98
		1	2		23.22	27.11	3.89
20525	836.5	1	5		23.12	27.05	3.93
		6	0		22.21	27.16	4.95
		1	0	16QAM	22.48	27.06	4.58
		1	2		22.64	27.07	4.43
		1	5		22.46	26.93	4.47
		6	0		21.35	27.18	5.83
		1	0	QPSK	23.19	27.29	4.10
		1	2		23.48	27.08	3.60
		1	5		22.96	26.70	3.74
		6	0		21.99	27.09	5.10
20643	848.3	1	0	16QAM	22.22	27.22	5.00
		1	2		21.98	26.81	4.83
		1	5		21.74	26.54	4.80
		6	0		20.85	26.84	5.99

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20415	825.5	1	0	QPSK	23.27	27.51	4.24
		1	8		23.08	27.26	4.18
		1	15		23.24	27.48	4.24
		15	0		22.27	27.57	5.30
		1	0	16QAM	22.56	27.38	4.82
		1	8		22.39	27.12	4.73
		1	15		22.16	27.13	4.97
		15	0		21.03	27.28	6.25
		1	0	QPSK	23.42	27.28	3.86
		1	8		23.12	27.00	3.88
20525	836.5	1	15		23.50	27.13	3.63
		15	0		22.14	27.19	5.05
		1	0	16QAM	23.05	27.40	4.35
		1	8		22.76	27.08	4.32
		1	15		22.69	26.98	4.29
		15	0		20.92	26.89	5.97
		1	0	QPSK	23.08	27.39	4.31
		1	8		23.02	27.12	4.10
		1	15		23.15	26.76	3.61
		15	0		22.01	27.30	5.29
20635	847.5	1	0	16QAM	23.00	27.79	4.79
		1	8		21.71	26.90	5.19
		1	15		22.25	26.78	4.53
		15	0		20.79	26.94	6.15

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20425	826.5	1	0	QPSK	23.22	27.51	4.29
		1	13		23.29	27.45	4.16
		1	24		23.37	27.58	4.21
		25	0		22.30	27.63	5.33
		1	0	16QAM	22.32	27.44	5.12
		1	13		21.74	26.95	5.21
		1	24		22.43	27.48	5.05
		25	0		21.13	27.36	6.23
		1	0	QPSK	23.35	27.33	3.98
		1	13		23.43	27.18	3.75
		1	24		23.45	27.11	3.66
		25	0		22.21	27.58	5.37
20525	836.5	1	0	QPSK	22.69	27.44	4.75
		1	13		22.44	27.04	4.60
		1	24		22.49	27.00	4.51
		25	0		21.25	27.32	6.07
		1	0	16QAM	23.04	27.41	4.37
		1	13		23.43	27.61	4.18
		1	24		23.53	27.09	3.56
		25	0		22.04	27.41	5.37
		1	0	16QAM	22.00	27.07	5.07
		1	13		21.67	27.05	5.38
		1	24		22.34	26.99	4.65
		25	0		21.05	27.33	6.28
20625	846.5	1	0	QPSK	23.04	27.41	4.37
		1	13		23.43	27.61	4.18
		1	24		23.53	27.09	3.56
		25	0		22.04	27.41	5.37
		1	0	16QAM	22.00	27.07	5.07
		1	13		21.67	27.05	5.38
		1	24		22.34	26.99	4.65
		25	0		21.05	27.33	6.28

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
20450	829	1	0	QPSK	23.42	27.74	4.32
		1	25		23.51	27.71	4.20
		1	49		23.43	27.72	4.29
		50	0		22.72	27.74	5.02
		1	0	16QAM	23.26	27.89	4.63
		1	25		23.73	28.06	4.33
		1	49		23.20	27.81	4.61
		27	0		21.76	27.50	5.74
20525	836.5	1	0	QPSK	23.54	27.70	4.16
		1	25		23.98	27.63	3.65
		1	49		23.71	27.23	3.52
		50	0		22.67	27.48	4.81
		1	0	16QAM	22.50	27.63	5.13
		1	25		22.67	27.40	4.73
		1	49		21.96	26.84	4.88
		27	0		21.57	27.18	5.61
20600	844	1	0	QPSK	23.68	27.30	3.62
		1	25		23.85	27.43	3.58
		1	49		23.69	27.45	3.76
		50	0		22.46	27.37	4.91
		1	0	16QAM	22.79	27.10	4.31
		1	25		23.43	27.46	4.03
		1	49		23.32	27.51	4.19
		27	0		21.38	27.29	5.91

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

5.1.8 LTE B12 Conducted RF Power Output Results

Test Data (1.4MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23017	699.7	1	0	QPSK	24.11	28.25	4.14
		1	2		24.29	28.39	4.10
		1	5		23.90	28.24	4.34
		6	0		22.84	28.10	5.26
		1	0	16QAM	23.17	28.23	5.06
		1	2		23.07	28.23	5.16
		1	5		22.93	28.22	5.29
		6	0		21.56	27.85	6.29
23095	707.5	1	0	QPSK	23.99	27.68	3.69
		1	2		23.95	27.55	3.60
		1	5		23.86	27.52	3.66
		6	0		22.76	27.67	4.91
		1	0	16QAM	23.08	27.46	4.38
		1	2		23.27	27.46	4.19
		1	5		23.34	27.47	4.13
		6	0		22.21	27.79	5.58
23173	715.3	1	0	QPSK	23.50	27.27	3.77
		1	2		23.98	27.09	3.11
		1	5		23.88	26.61	2.73
		6	0		22.49	27.28	4.79
		1	0	16QAM	22.15	27.02	4.87
		1	2		22.53	26.90	4.37
		1	5		22.20	26.45	4.25
		6	0		21.33	26.98	5.65

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23025	700.5	1	0	QPSK	24.00	28.24	4.24
		1	8		23.89	28.21	4.32
		1	15		23.58	28.00	4.42
		15	0		22.62	27.96	5.34
		1	0	16QAM	23.58	28.19	4.61
		1	8		23.47	28.13	4.66
		1	15		23.56	28.35	4.79
		15	0		21.80	28.08	6.28
23095	707.5	1	0	QPSK	23.72	27.61	3.89
		1	8		23.46	27.25	3.79
		1	15		23.91	27.52	3.61
		15	0		22.68	27.74	5.06
		1	0	16QAM	23.57	27.66	4.09
		1	8		23.22	27.36	4.14
		1	15		23.28	27.43	4.15
		15	0		21.88	27.86	5.98
23165	714.5	1	0	QPSK	23.52	27.72	4.20
		1	8		23.62	27.18	3.56
		1	15		23.67	26.25	2.58
		15	0		22.35	27.51	5.16
		1	0	16QAM	22.23	27.41	5.18
		1	8		22.53	27.14	4.61
		1	15		22.53	27.14	4.61
		15	0		21.42	27.31	5.89

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23035	701.5	1	0	QPSK	23.54	27.90	4.36
		1	13		23.51	27.80	4.29
		1	24		23.57	27.89	4.32
		25	0		22.57	28.07	5.50
		1	0	16QAM	22.36	27.72	5.36
		1	13		22.28	27.56	5.28
		1	24		22.41	27.73	5.32
		25	0		21.60	27.87	6.27
23095	707.5	1	0	QPSK	23.72	27.71	3.99
		1	13		23.65	27.35	3.70
		1	24		23.47	27.48	4.01
		25	0		22.57	27.62	5.05
		1	0	16QAM	22.66	27.55	4.89
		1	13		22.23	27.04	4.81
		1	24		21.88	27.01	5.13
		25	0		21.75	27.61	5.86
23155	713.5	1	0	QPSK	23.54	27.67	4.13
		1	13		23.67	27.63	3.96
		1	24		23.5	26.46	2.96
		25	0		22.43	27.68	5.25
		1	0	16QAM	22.69	27.59	4.90
		1	13		23.09	27.69	4.60
		1	24		22.81	26.56	3.75
		25	0		21.25	27.75	6.50

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23060	704	1	0	QPSK	22.56	26.97	4.41
		1	25		22.87	26.95	4.08
		1	49		22.77	26.55	3.78
		50	0		21.97	26.88	4.91
		1	0	16QAM	21.85	26.82	4.97
		1	25		22.27	26.92	4.65
		1	49		22.08	26.46	4.38
		27	0		21.01	27.34	6.33
23095	707.5	1	0	QPSK	22.70	27.00	4.30
		1	25		23.21	26.67	3.46
		1	49		22.55	26.83	4.28
		50	0		21.74	26.53	4.79
		1	0	16QAM	21.75	26.97	5.22
		1	25		21.55	26.37	4.82
		1	49		21.22	26.55	5.33
		27	0		20.84	27.11	6.27
23130	711	1	0	QPSK	22.71	26.66	3.95
		1	25		22.94	26.92	3.98
		1	49		22.64	26.23	3.59
		50	0		21.88	26.67	4.79
		1	0	16QAM	22.10	26.59	4.49
		1	25		22.46	26.91	4.45
		1	49		22.05	26.24	4.19
		27	0		20.83	27.19	6.36

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

5.1.9 LTE B13 Conducted RF Power Output Results

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23205	779.5	1	0	QPSK	23.66	27.71	4.05
		1	13		23.82	27.88	4.06
		1	24		23.54	27.89	4.35
		25	0		22.77	28.05	5.28
		1	0	16QAM	22.23	27.24	5.01
		1	13		22.16	27.24	5.08
		1	24		22.19	27.28	5.09
		25	0		21.91	27.88	5.97
		1	0	QPSK	23.55	27.73	4.18
		1	13		23.58	27.46	3.88
23230	782.0	1	24		23.41	27.24	3.83
		25	0		22.51	27.97	5.46
		1	0	16QAM	22.95	27.79	4.84
		1	13		22.85	27.41	4.56
		1	24		23.01	27.39	4.38
		25	0		21.65	27.96	6.31
		1	0	QPSK	23.32	27.48	4.16
		1	13		23.52	26.93	3.41
		1	24		23.46	26.90	3.44
		25	0		22.51	27.60	5.09
23255	784.5	1	0	16QAM	22.32	27.30	4.98
		1	13		22.30	26.88	4.58
		1	24		22.26	26.84	4.58
		25	0		21.46	27.42	5.96

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23230	782.0	1	0	QPSK	23.32	27.59	4.27
		1	25		23.62	27.45	3.83
		1	49		23.69	27.08	3.39
		50	0		22.54	27.50	4.96
		1	0	16QAM	22.60	27.30	4.70
		1	25		23.39	27.61	4.22
		1	49		22.70	26.87	4.17
		27	0		21.54	27.79	6.25

5.1.10 LTE B17 Conducted RF Power Output Results

Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23755	706.5	1	0	QPSK	23.55	27.71	4.16
		1	13		23.54	27.33	3.79
		1	24		23.38	27.21	3.83
		25	0		22.51	27.88	5.37
		1	0	16QAM	22.78	27.67	4.89
		1	13		22.92	27.33	4.41
		1	24		23.03	27.34	4.31
		25	0		21.51	27.76	6.25
23790	710.0	1	0	QPSK	23.72	27.46	3.74
		1	13		23.62	27.42	3.80
		1	24		23.42	27.66	4.24
		25	0		22.39	27.58	5.19

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

		1	0	16QAM	22.08	26.98	4.90
		1	13		21.73	26.79	5.06
		1	24		21.99	27.12	5.13
		25	0		21.54	27.59	6.05
23825	713.5	1	0	QPSK	23.67	27.55	3.88
		1	13		23.65	27.47	3.82
		1	24		23.57	26.41	2.84
		25	0		22.57	27.83	5.26
		1	0	16QAM	22.01	27.13	5.12
		1	13		22.06	27.12	5.06
		1	24		22.48	26.44	3.96
		25	0		21.53	27.80	6.27

Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
23780	709.0	1	0	QPSK	22.99	26.99	4.00
		1	25		22.83	26.47	3.64
		1	49		22.79	26.79	4.00
		50	0		21.76	27.01	5.25
		1	0	16QAM	22.20	26.85	4.65
		1	25		22.79	26.60	3.81
		1	49		22.29	26.81	4.52
		27	0		20.90	26.63	5.73
23790	710.0	1	0	QPSK	23.05	26.79	3.74
		1	25		22.71	26.55	3.84
		1	49		22.83	26.45	3.62
		50	0		21.73	26.51	4.78
		1	0	16QAM	22.08	26.64	4.56

Chongqing Academy of Information and Communications Technology

Report No.:B19W50128-WWAN

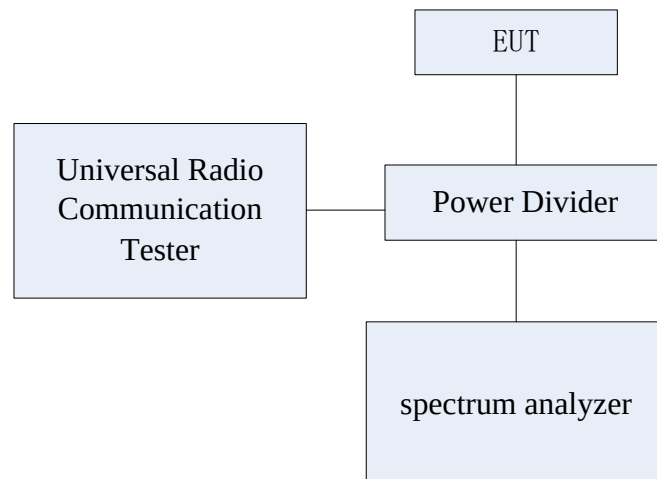
		1	25		22.09	26.50	4.41
		1	49		22.53	26.60	4.07
		27	0		20.63	27.06	6.43
23800	711.0	1	0	QPSK	22.53	26.53	4.00
		1	25		23.04	26.76	3.72
		1	49		22.67	25.81	3.14
		50	0		21.60	26.51	4.91
		1	0	16QAM	21.41	26.35	4.94
		1	25		21.36	26.39	5.03
		1	49		21.49	25.86	4.37
		27	0		20.76	26.71	5.95

5.2 Occupied Bandwidth

Specifications:	FCC Part 2.1049, 22.917(b), 24.238(b)
DUT Serial Number:	868020030062938
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	--

Test Setup

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



Test Method

The 99% occupied Bandwidth was calculated from the spectrum analyzer. Markers in the spectrum analyzer were then placed between the calculated frequencies to show the calculated 99% power Band. The 26dB Bandwidth was also measured and recorded.

Note: --

5.2.1 GSM Mode Occupied Bandwidth Results

Band	EUT channel No.	Mode	99% OBW (MHz)	-26dBc OBW (MHz)
GSM850	128	GMSK	0.25	0.32
		8PSK	0.24	0.31
	190	GMSK	0.24	0.31
		8PSK	0.24	0.30
	251	GMSK	0.24	0.30
		8PSK	0.24	0.30
PCS1900	512	GMSK	0.24	0.31
		8PSK	0.25	0.31
	661	GMSK	0.24	0.32
		8PSK	0.25	0.31
	810	GMSK	0.24	0.31
		8PSK	0.25	0.31

5.2.2 WCDMA Band mode occupied bandwidth Results

Band	EUT channel No.	Mode	99% OBW (MHz)	-26dBc OBW (MHz)
B2	9400 (1880.0 MHz)	QPSK	4.16	4.72
B4	1412 (1732.4MHz)	QPSK	4.16	4.74
B5	4182 (836.4MHz)	QPSK	4.16	4.71
B2	9400 (1880.0 MHz)	16QAM	4.13	4.74
B4	1412 (1732.4MHz)	16QAM	4.12	4.74
B5	4182 (836.4MHz)	16QAM	4.15	4.73

5.2.3 LTE B2 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	18900 (1880MHz)	1.4MHz	6	0	1.08	1.24
		3MHz	15		2.68	2.89
		5MHz	25		4.45	4.88
		10MHz	50		8.91	9.45
		15MHz	75		13.46	14.42
		20MHz	100		17.88	18.65
16QAM		1.4MHz	6		1.08	1.23
		3MHz	15		2.68	2.88
		5MHz	25		4.45	4.83
		10MHz	50		8.91	9.42
		15MHz	75		13.41	14.37
		20MHz	100		17.88	18.94

5.2.4 LTE B4 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	20175 (1732.5MHz)	1.4MHz	6	0	1.08	1.22
		3MHz	15		2.68	2.87
		5MHz	25		4.48	4.88
		10MHz	50		8.97	9.48
		15MHz	75		13.41	14.27
		20MHz	100		17.88	18.89
16QAM		1.4MHz	6		1.08	1.24
		3MHz	15		2.68	2.87
		5MHz	25		4.47	4.79
		10MHz	50		8.91	9.45
		15MHz	75		13.46	14.27
		20MHz	100		17.88	18.89

5.2.5 LTE B5 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	20525 (836.5MHz)	1.4MHz	6	0	1.08	1.21
		3MHz	15		2.68	2.86
		5MHz	25		4.45	4.77
		10MHz	50		8.94	9.39
16QAM		1.4MHz	6		1.08	1.21
		3MHz	15		2.68	2.82
		5MHz	25		4.47	4.83
		10MHz	50		8.91	9.29

5.2.6 LTE B12 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	20095 (707.5MHz)	1.4MHz	6	0	1.08	1.22
		3MHz	15		2.68	2.89
		5MHz	25		4.45	4.83
		10MHz	50		8.91	9.42
16QAM		1.4MHz	6		1.08	1.20
		3MHz	15		2.68	2.83
		5MHz	25		4.47	4.87
		10MHz	50		8.91	9.35

5.2.7 LTE B13 occupied bandwidth Results

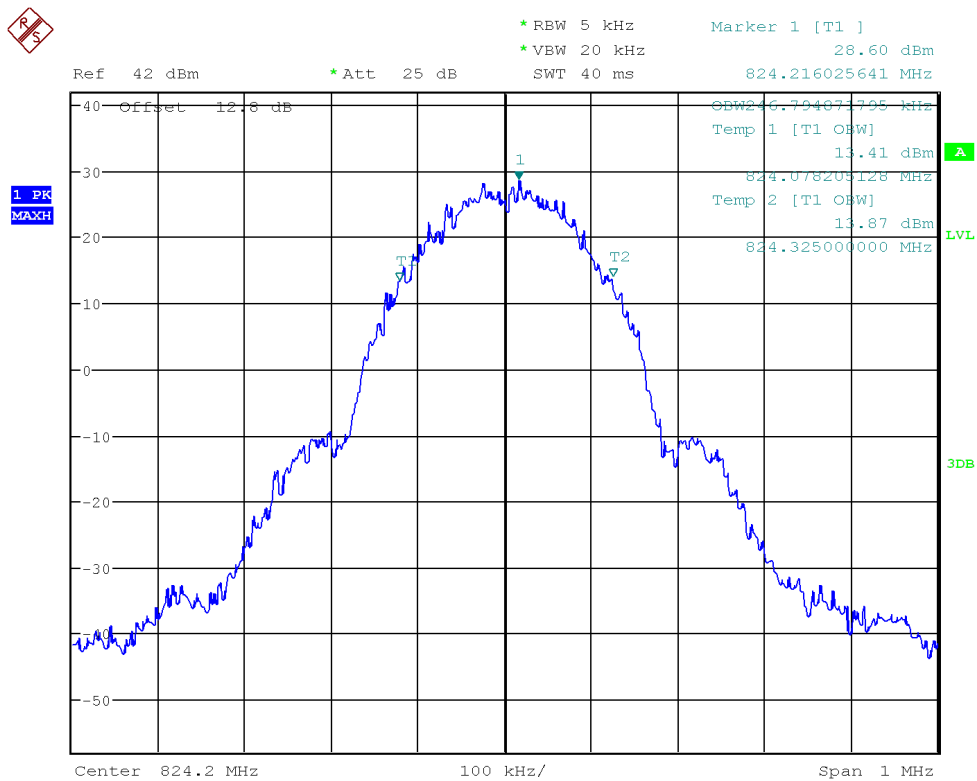
Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	20230 (782MHz)	5MHz	25	0	4.47	4.83
		10MHz	50		8.97	9.45
16QAM		5MHz	25		4.47	4.84
		10MHz	50		8.97	9.36

5.2.8 LTE B17 occupied bandwidth Results

Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	20790 (710MHz)	5MHz	25	0	4.47	4.83
		10MHz	50		8.97	9.45
16QAM		5MHz	25		4.47	4.84

		10MHz	50		8.97	9.36
--	--	-------	----	--	------	------

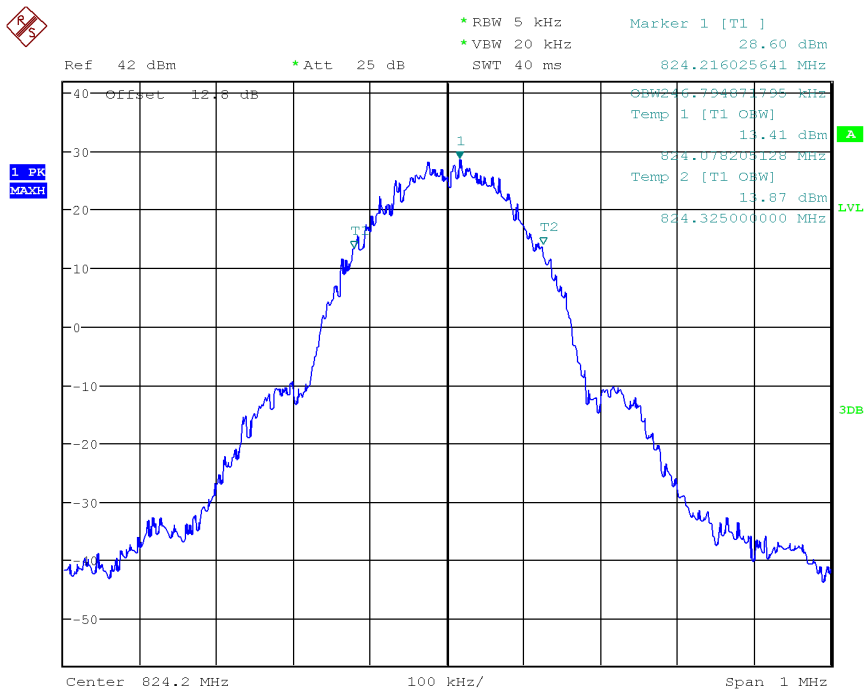
Graphical results for GSM850:



Date: 29.APR.2019 17:50:24

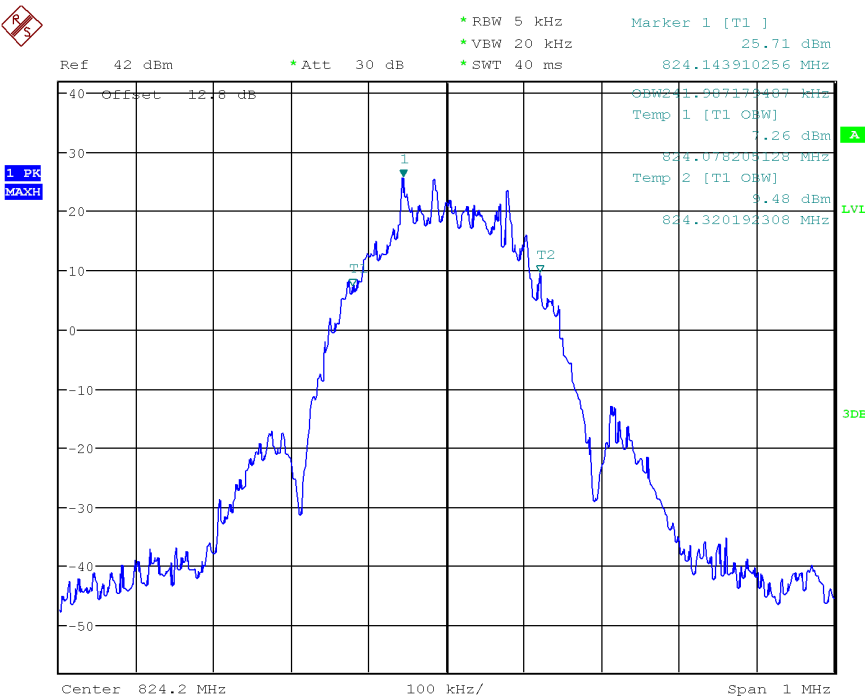
GMSK 99% Channel 128

Report No.:B19W50128-WWAN



Date: 29.APR.2019 17:50:24

GMSK -26dBc Channel 128

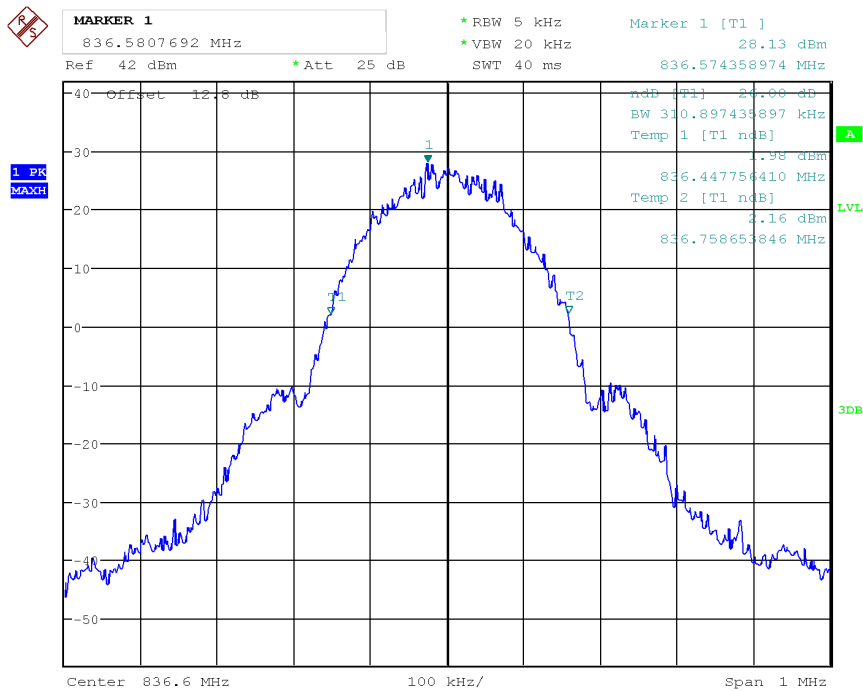


Date: 29.APR.2019 19:02:48

8PSK 99% Channel 128

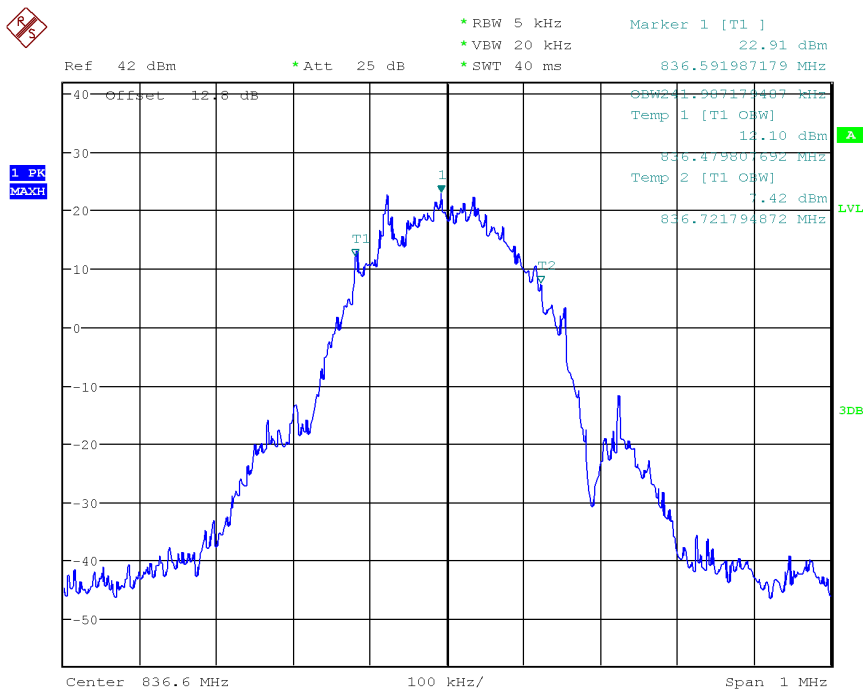


Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 29.APR.2019 17:51:28

GMSK -26dBc Channel 190

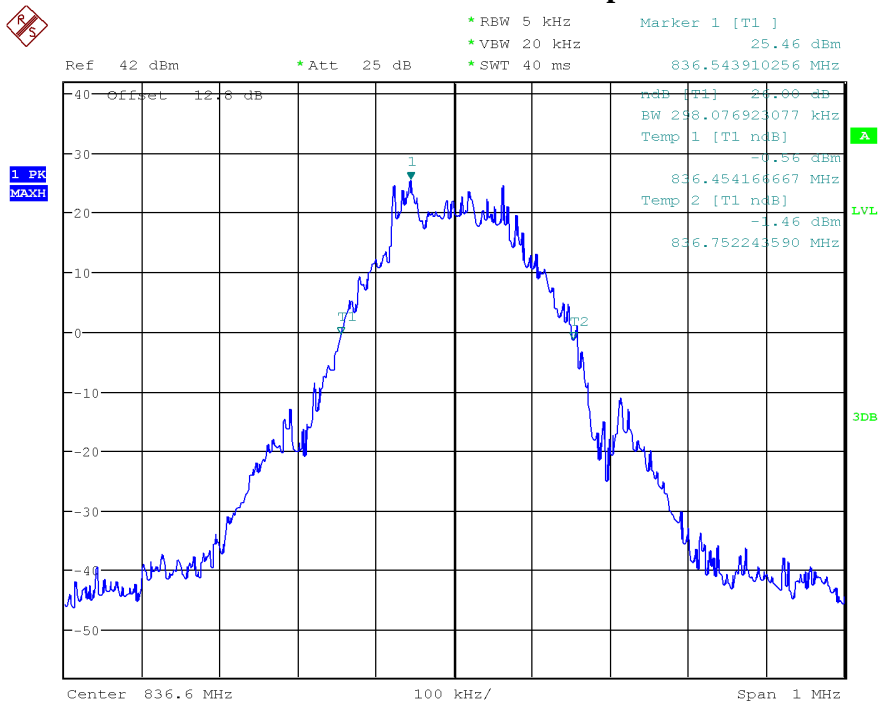


Date: 29.APR.2019 19:00:53

8PSK 99% Channel 190

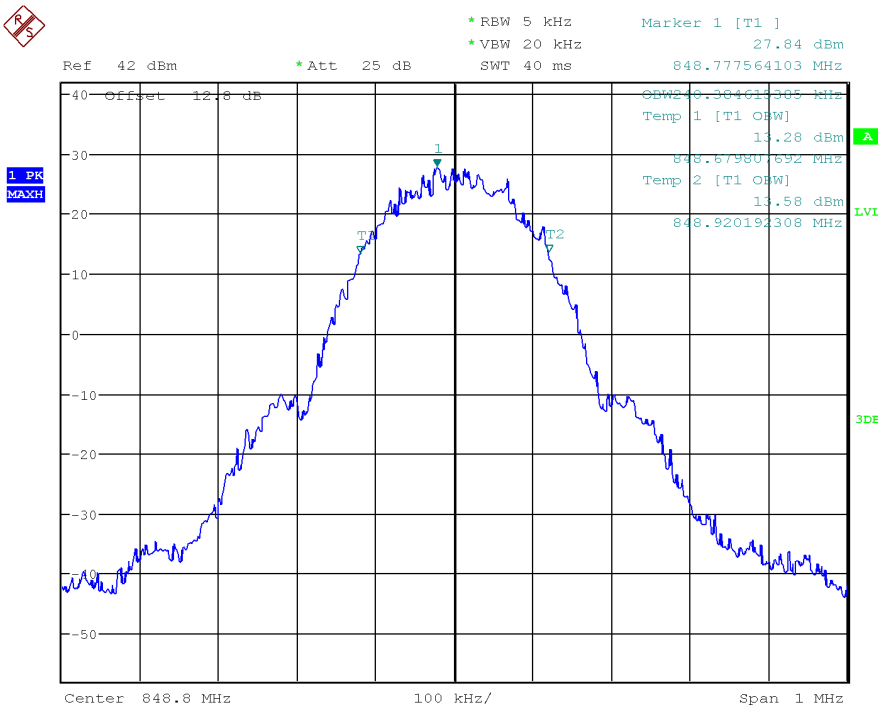
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 29.APR.2019 19:00:33

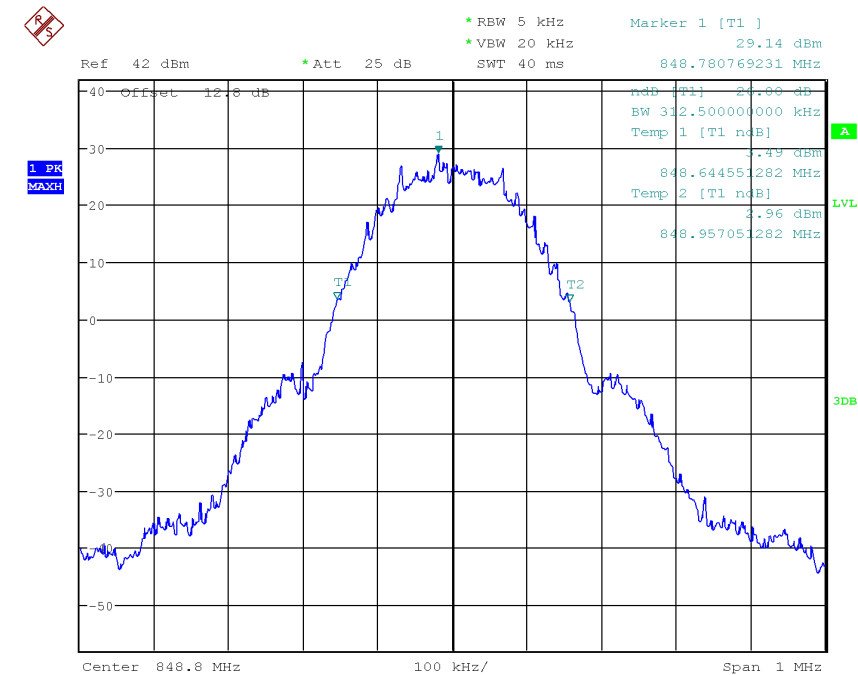
8PSK -26dBc Channel 190



Date: 29.APR.2019 17:52:26

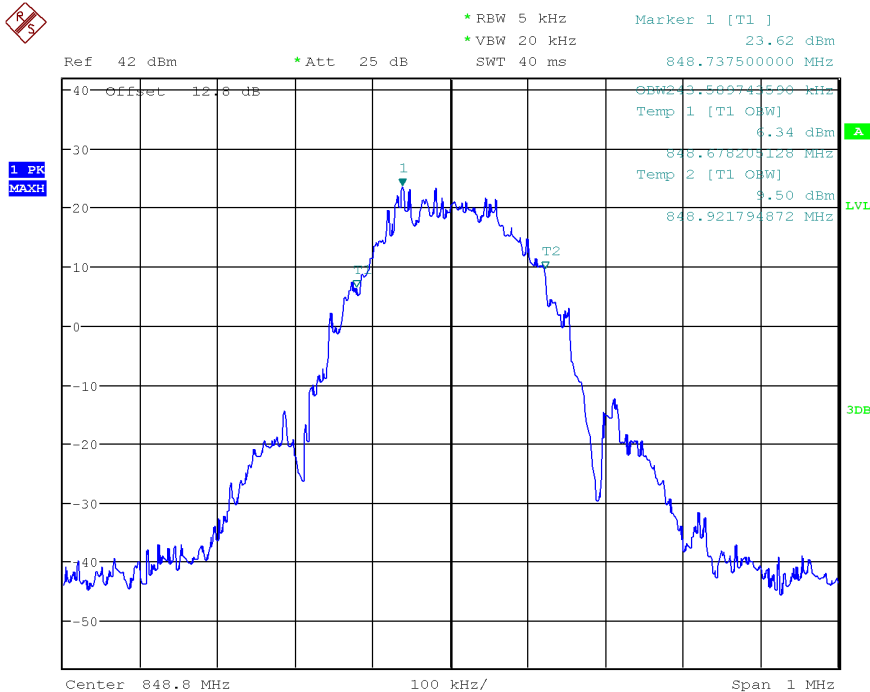
GMSK 99% Channel 251

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 29.APR.2019 17:52:05

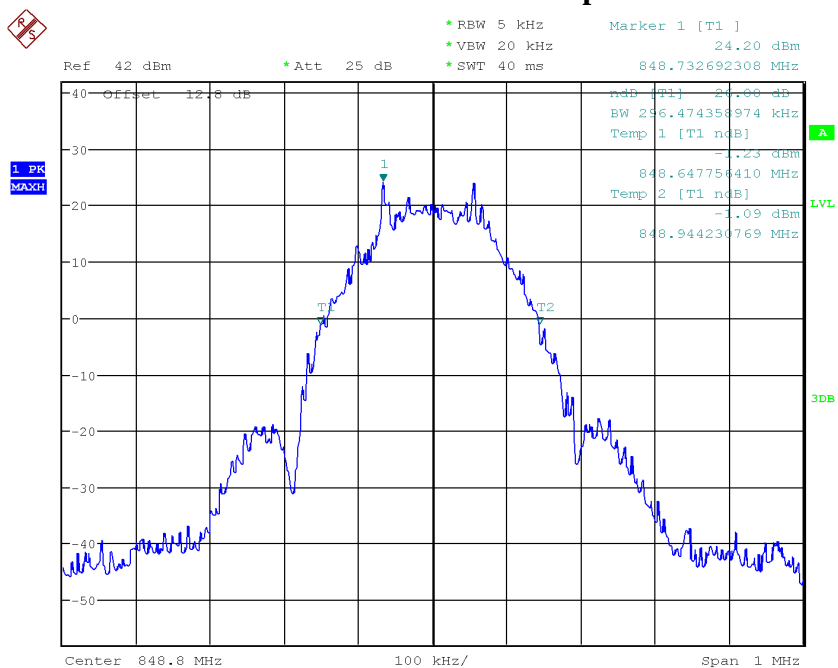
GMSK -26dBc Channel 251



Date: 29.APR.2019 18:59:01

8PSK 99% Channel 251

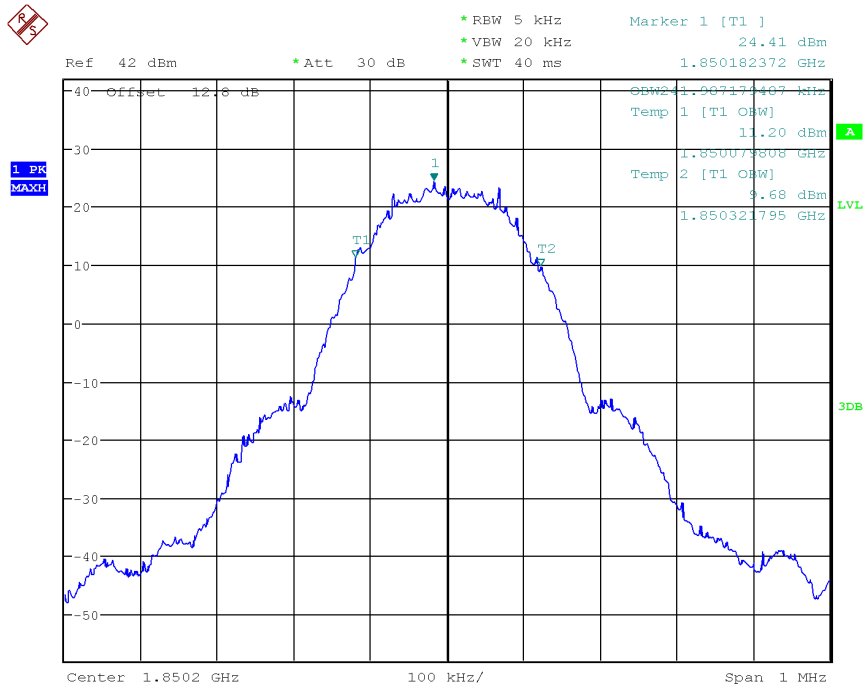
Report No.:B19W50128-WWAN



Date: 29.APR.2019 18:59:39

8PSK -26dBc Channel 251

Graphical results for GSM1900:

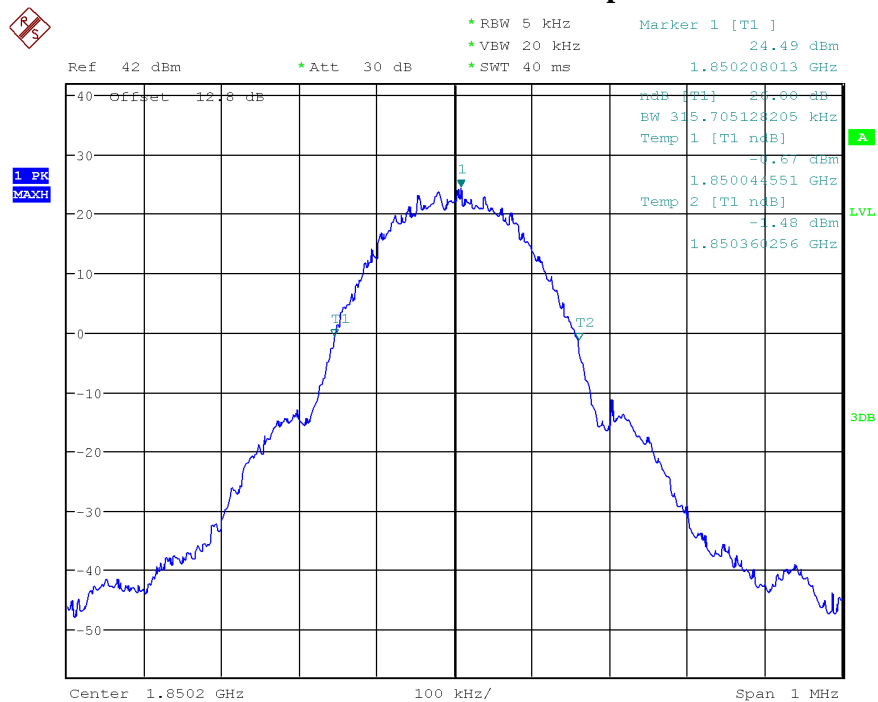


Date: 29.APR.2019 19:35:31

GMSK 99% Channel 512

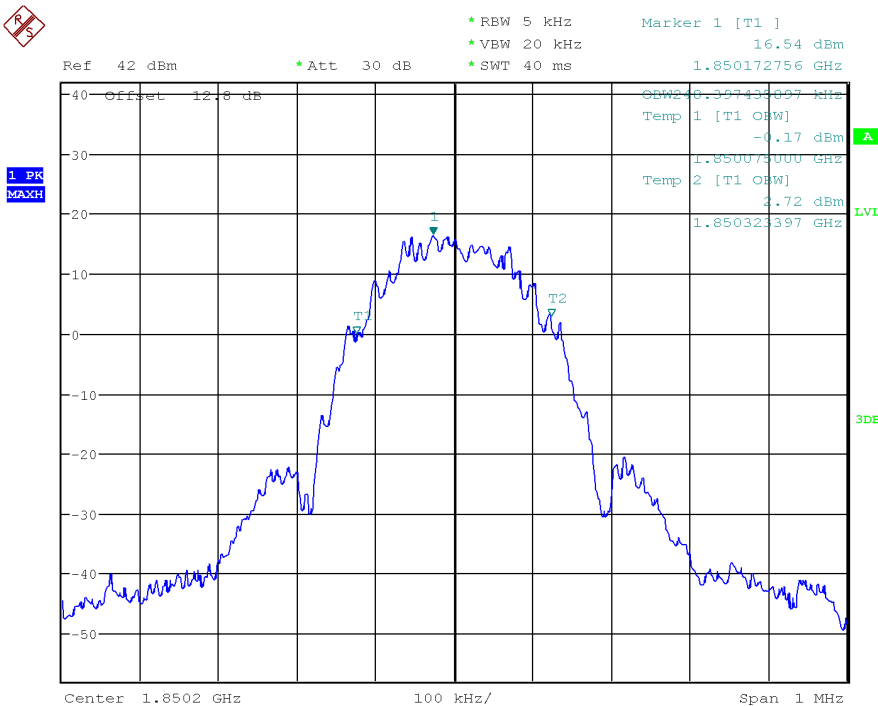
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 29.APR.2019 19:37:05

GMSK -26dBc Channel 512

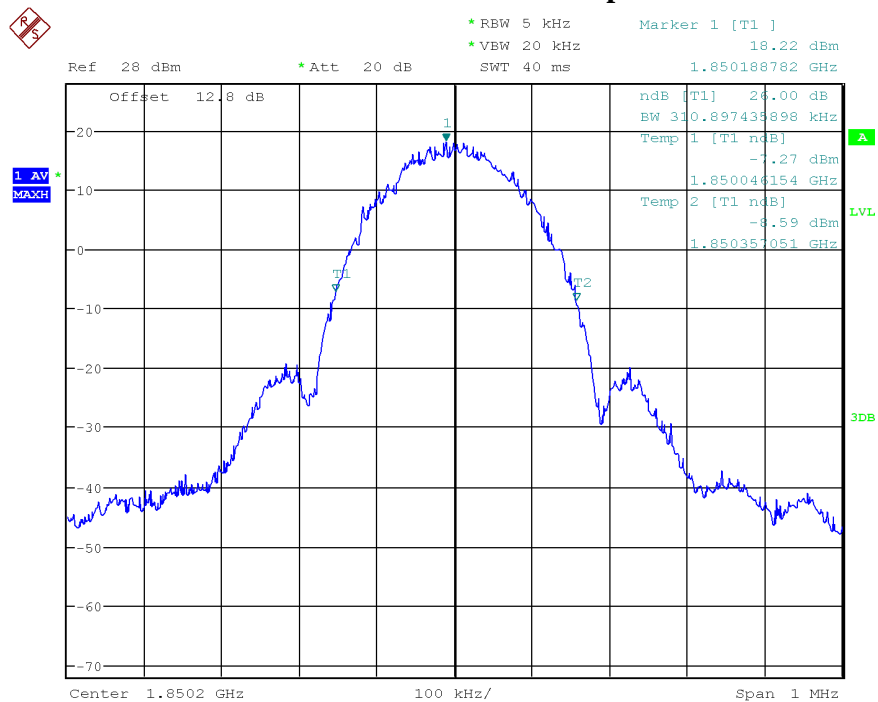


Date: 29.APR.2019 19:51:38

8PSK 99% Channel 512

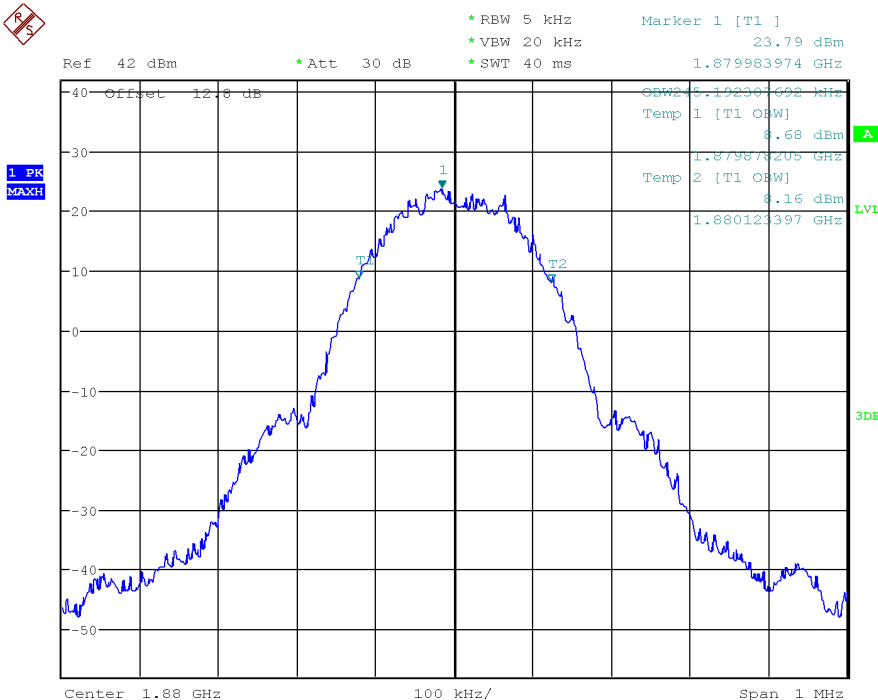
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 29.APR.2019 20:13:11

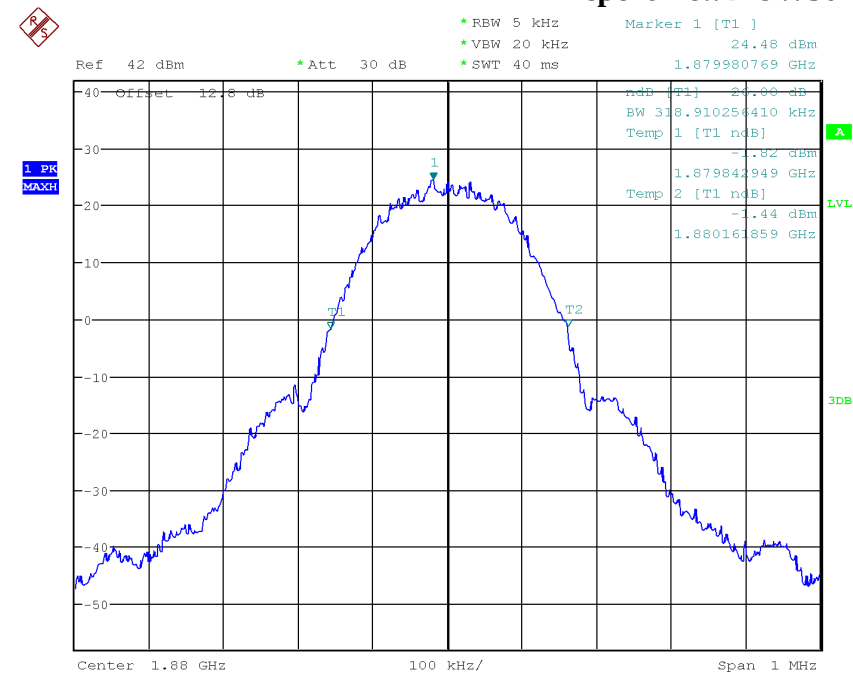
8PSK -26dBc Channel 512



Date: 29.APR.2019 19:40:33

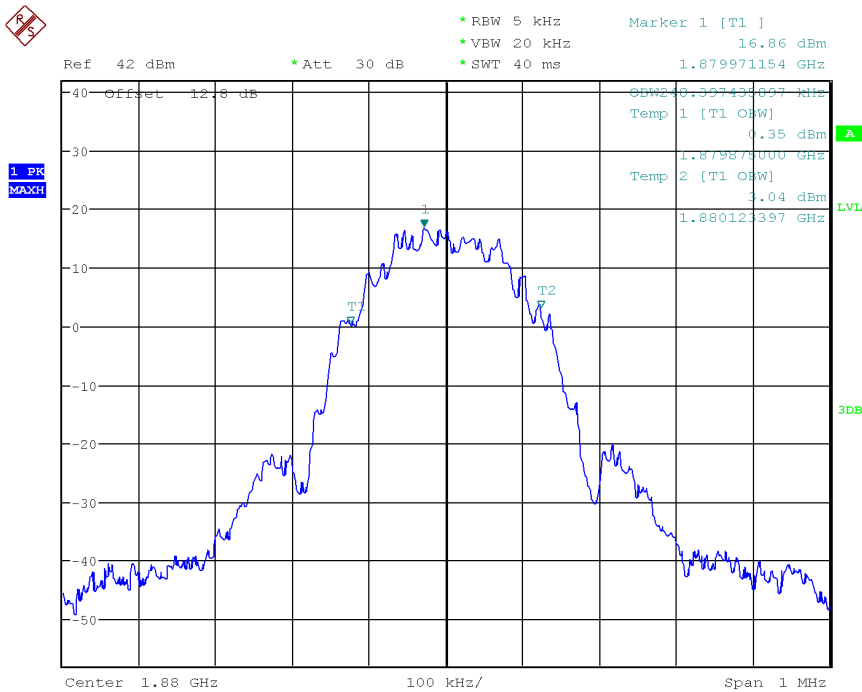
GMSK 99% Channel 661

Report No.:B19W50128-WWAN



Date: 29.APR.2019 19:39:42

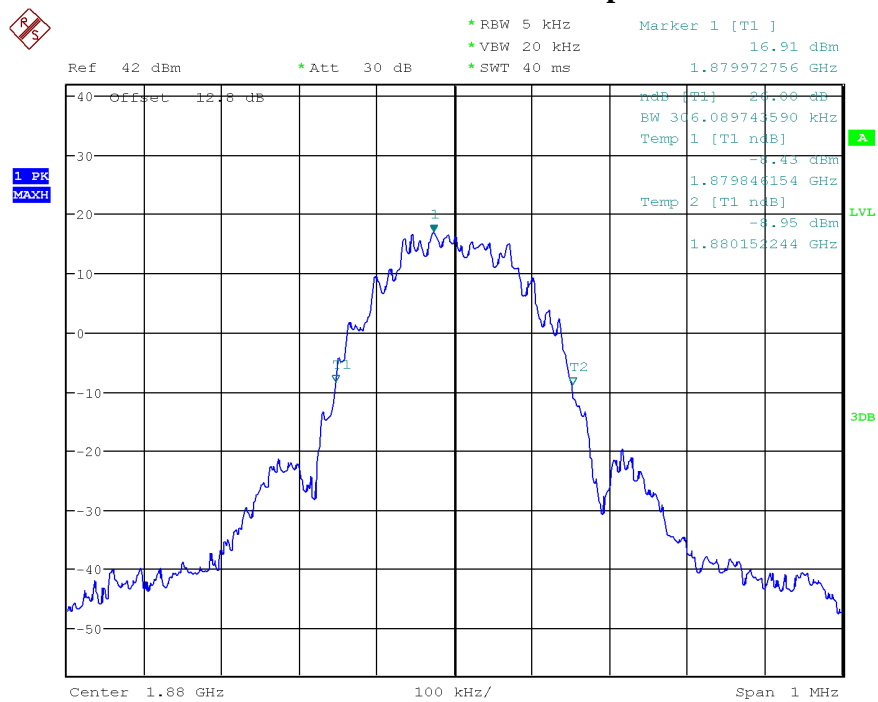
GMSK -26dBc Channel 661



Date: 29.APR.2019 19:50:39

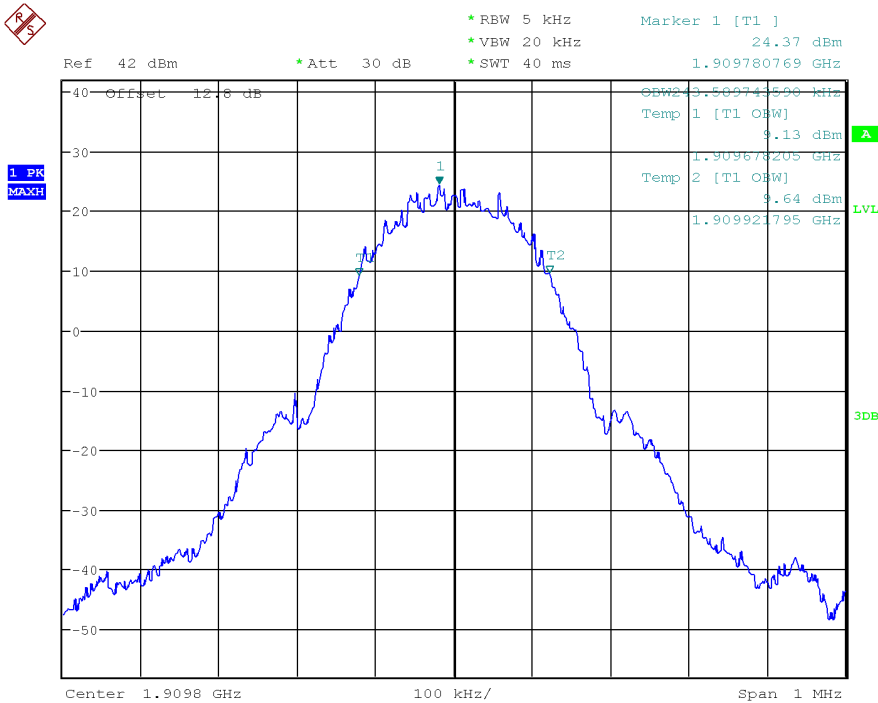
8PSK 99% Channel 661

Report No.:B19W50128-WWAN



Date: 29.APR.2019 19:50:14

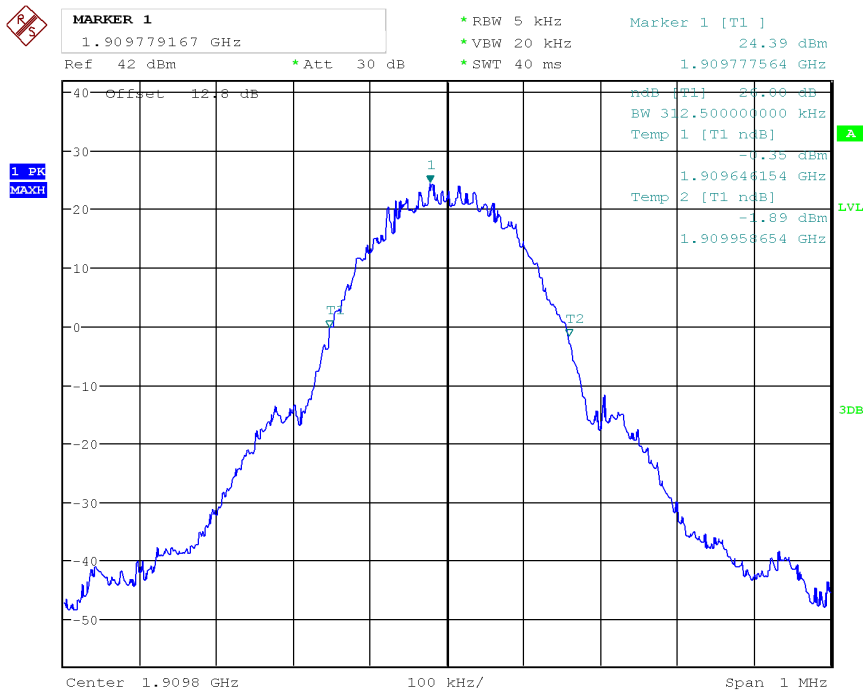
8PSK -26dBc Channel 661



Date: 29.APR.2019 19:41:23

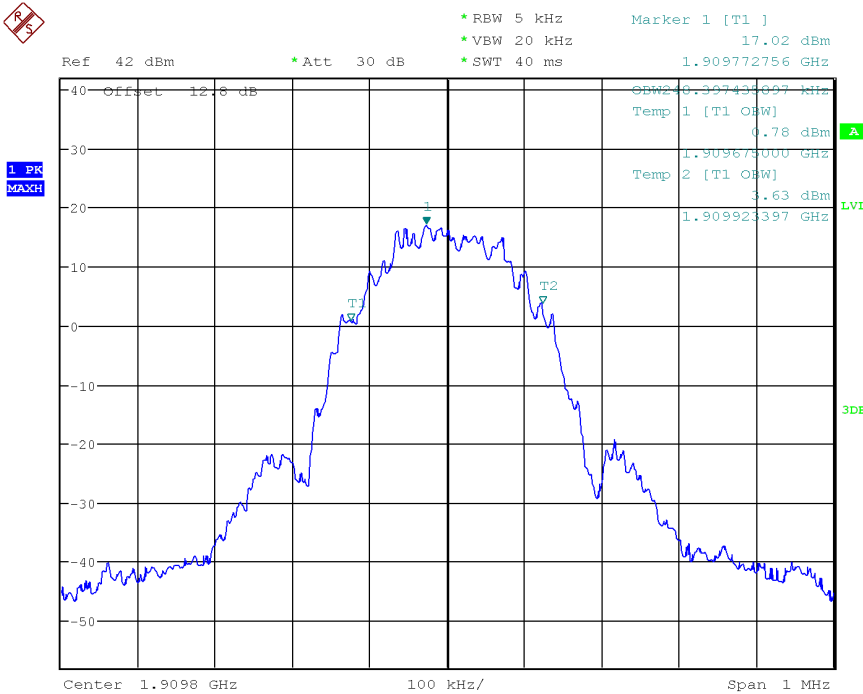
GMSK 99% Channel 810

Report No.:B19W50128-WWAN



Date: 29.APR.2019 19:43:29

GMSK -26dBc Channel 810



Date: 29.APR.2019 19:48:51

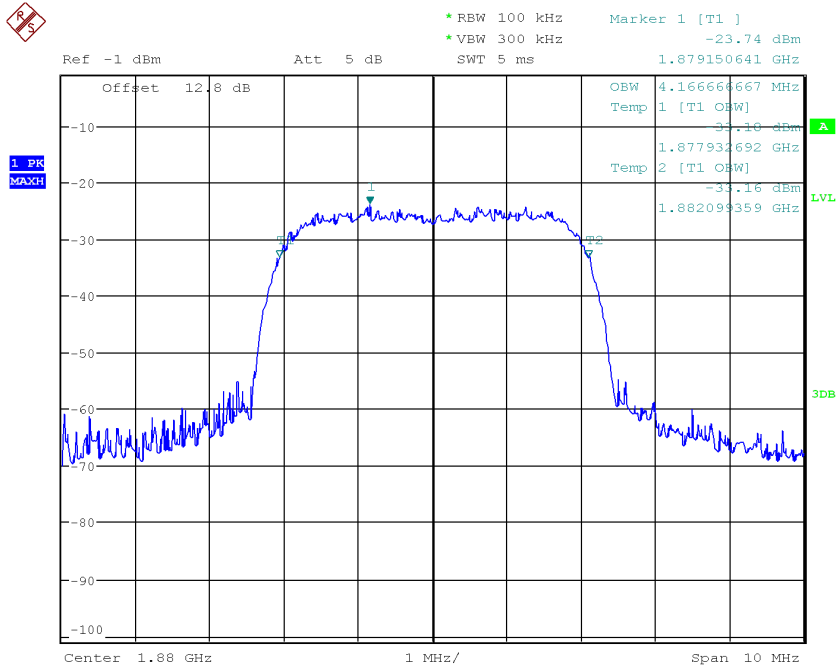
8PSK 99% Channel 810



Date: 29.APR.2019 19:49:19

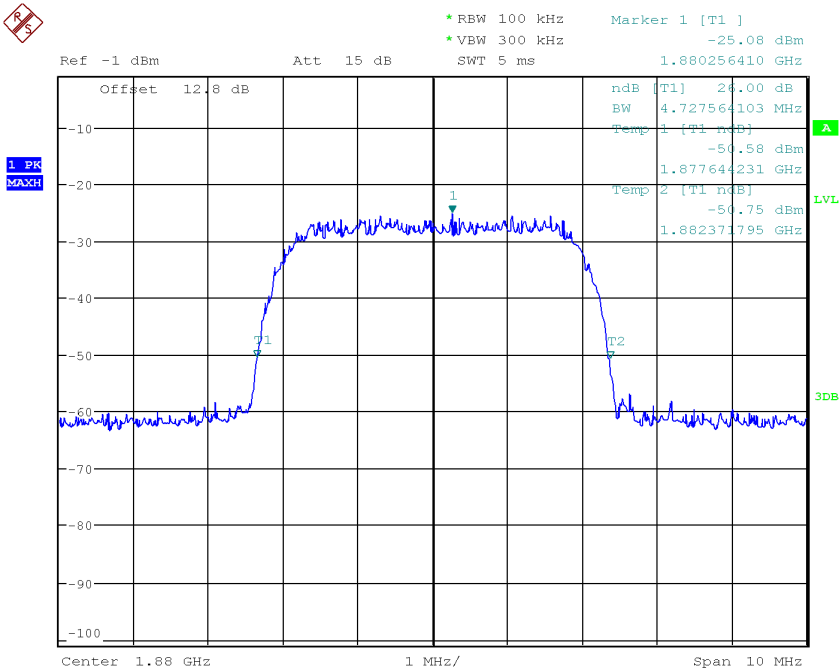
8PSK -26dBc Channel 810

Graphical results for WCDMA Band2:



Date: 30.APR.2019 09:59:55

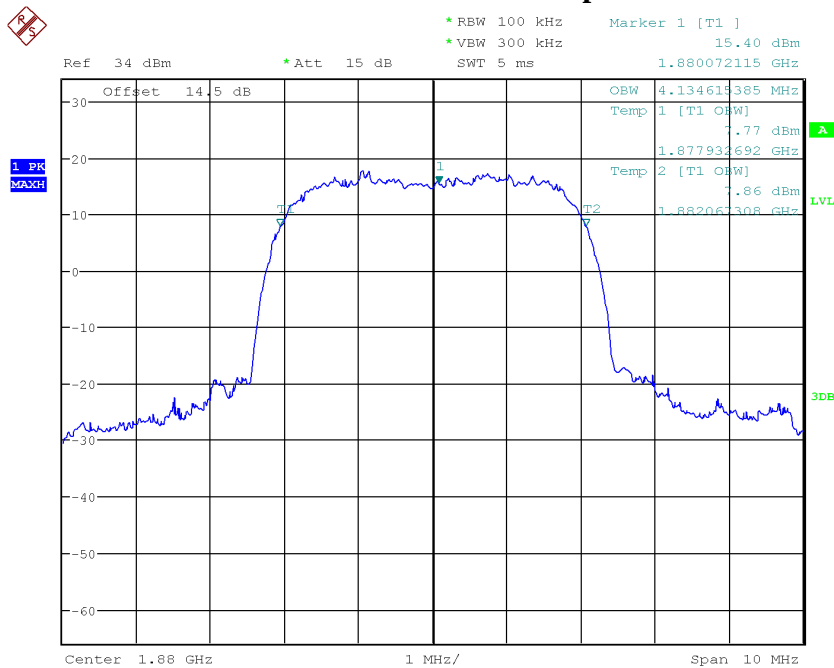
WCDMA B2 99% QPSK



Date: 30.APR.2019 10:00:11

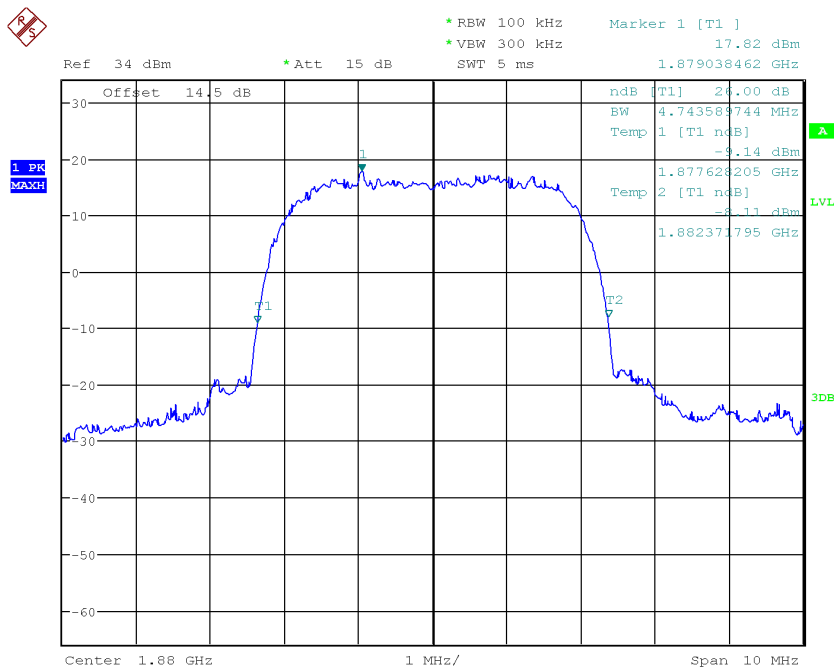
WCDMA B2 -26dBc QPSK

Report No.:B19W50128-WWAN



Date: 7.MAY.2019 14:03:37

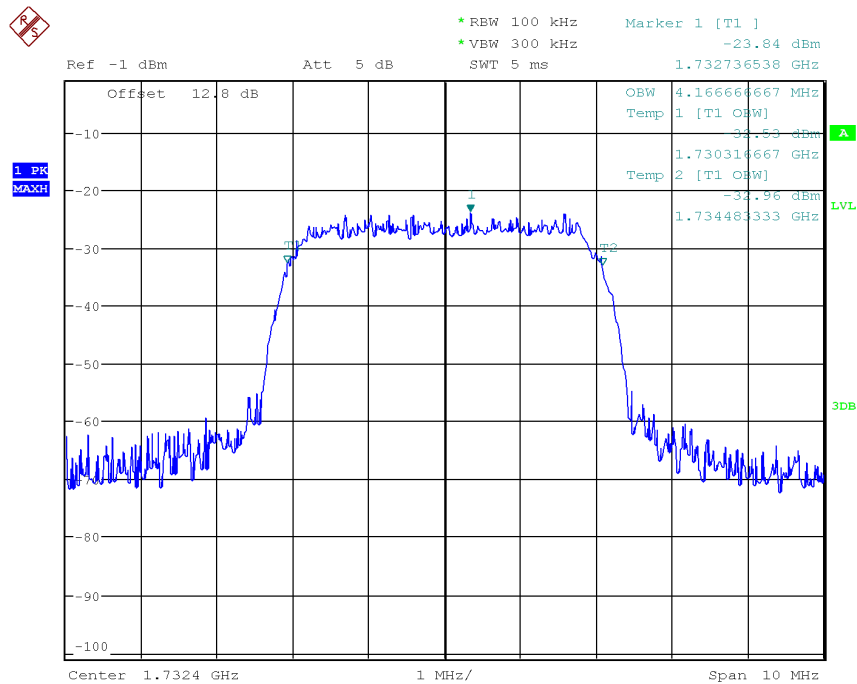
WCDMA B2 99% 16QAM



Date: 7.MAY.2019 14:13:17

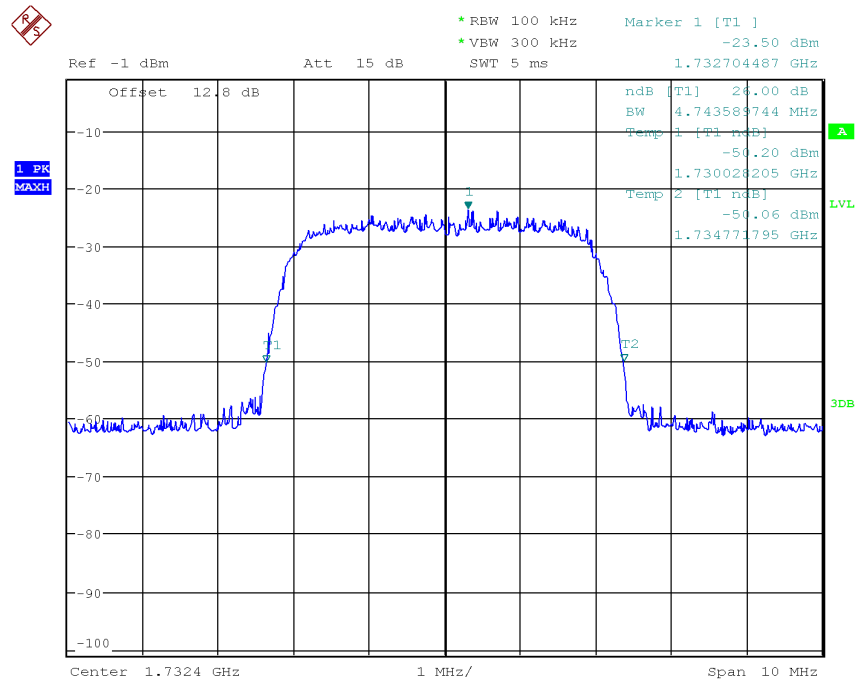
WCDMA B2 -26dBc 16QAM

Graphical results for WCDMA Band4:



Date: 30.APR.2019 10:01:51

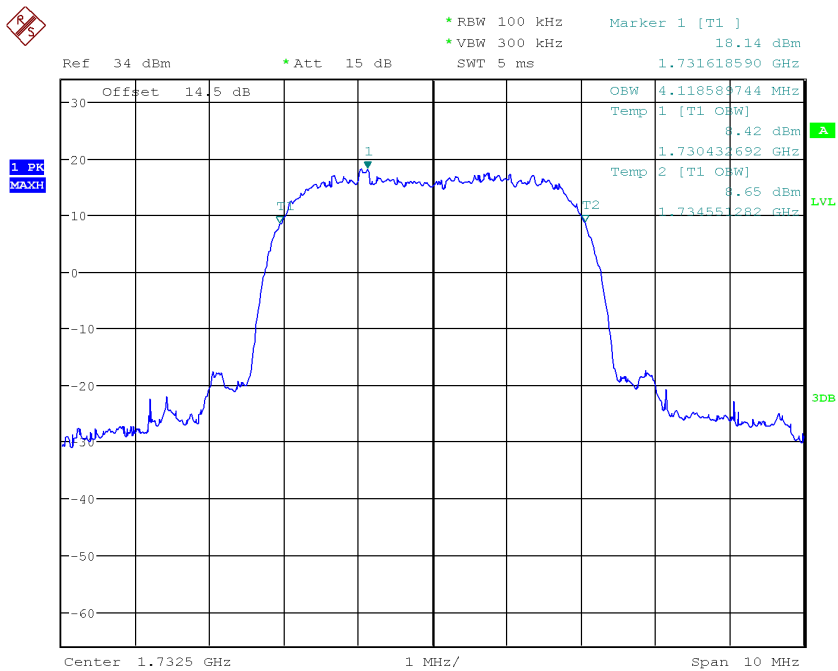
WCDMA B4 99% QPSK



Date: 30.APR.2019 10:01:16

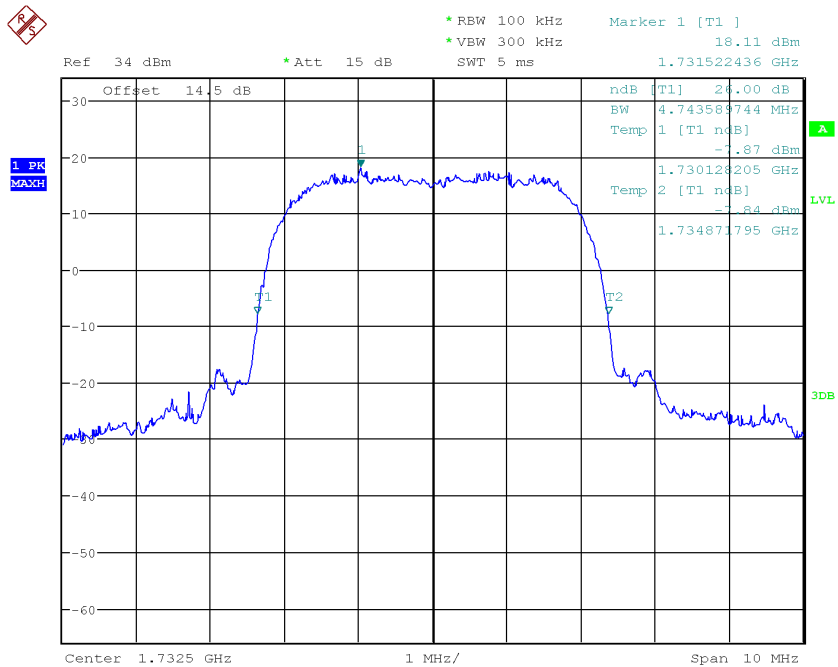
Report No.:B19W50128-WWAN

WCDMA B4 -26dBc QPSK



Date: 7.MAY.2019 14:11:30

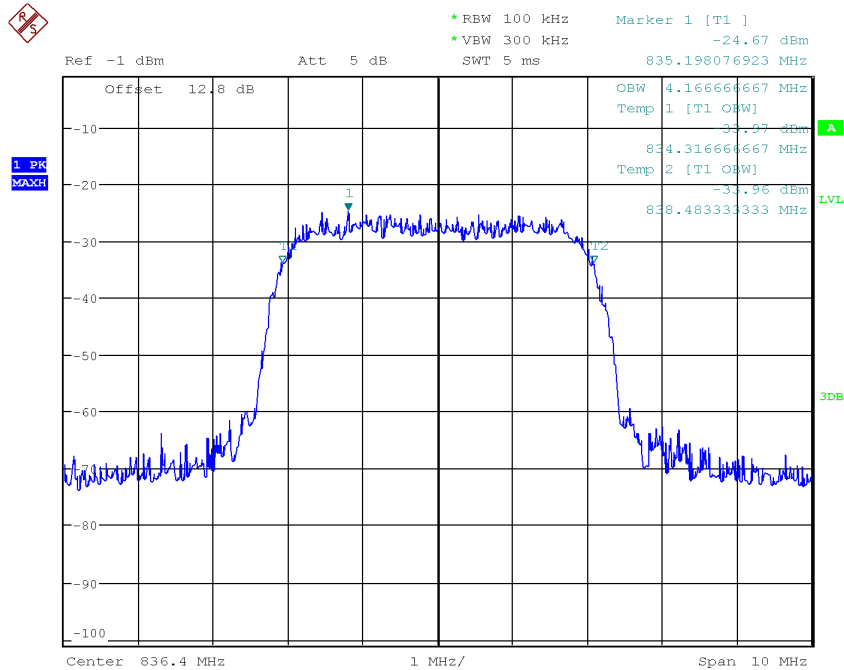
WCDMA B4 99% 16QAM



Date: 7.MAY.2019 14:12:18

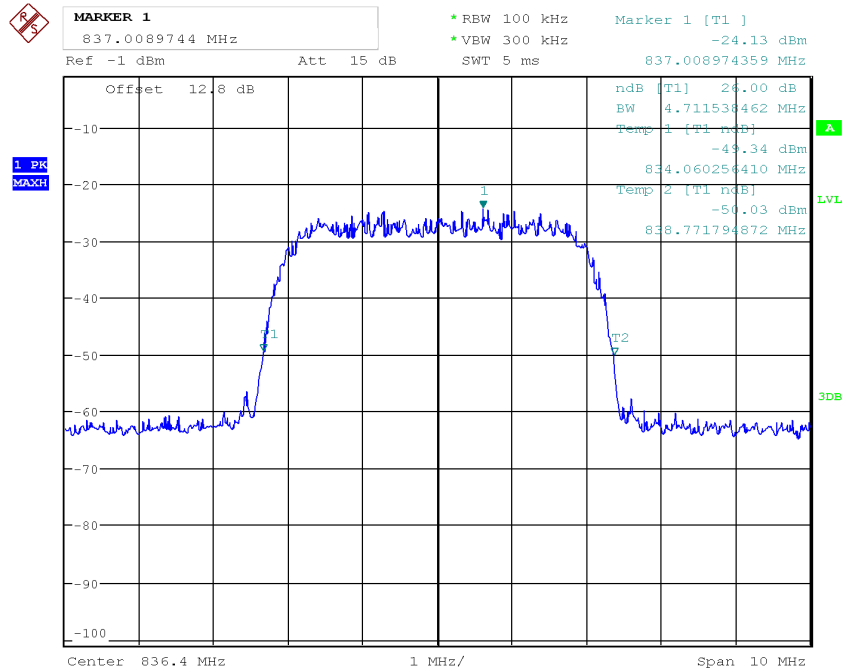
WCDMA B4 -26dBc 16QAM

Graphical results for WCDMA Band5:



Date: 30.APR.2019 10:02:42

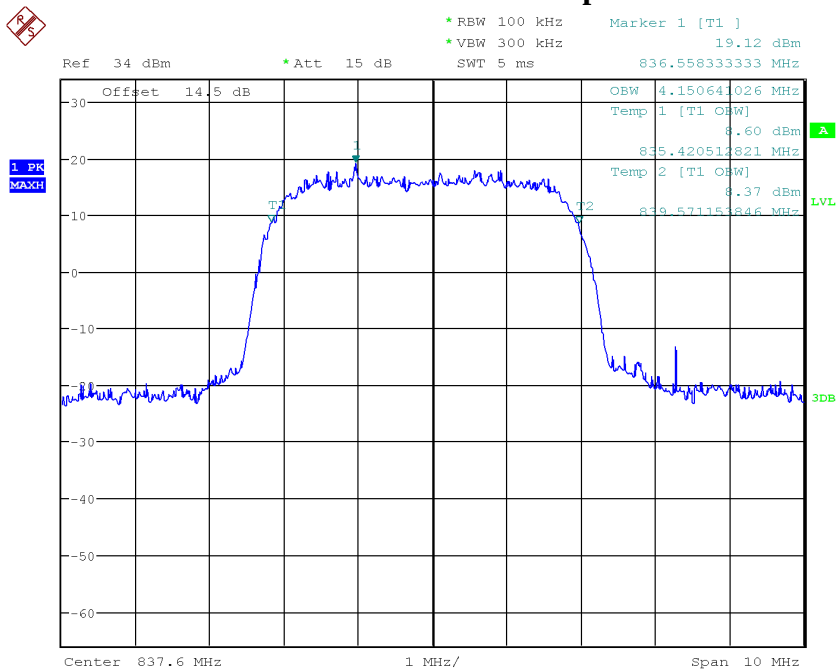
WCDMA B5 99% QPSK



Date: 30.APR.2019 10:03:02

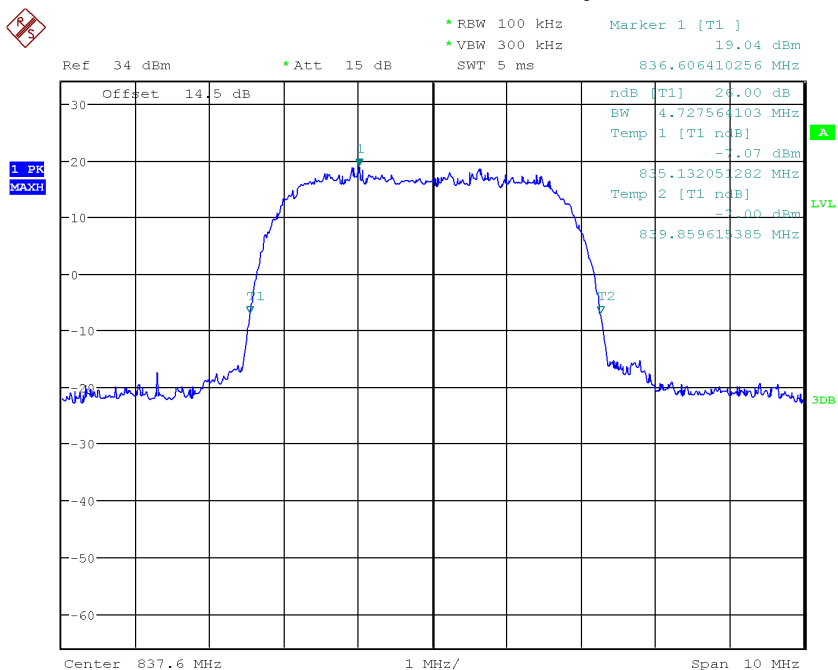
WCDMA B5 -26dBc QPSK

Report No.:B19W50128-WWAN



Date: 7.MAY.2019 14:36:20

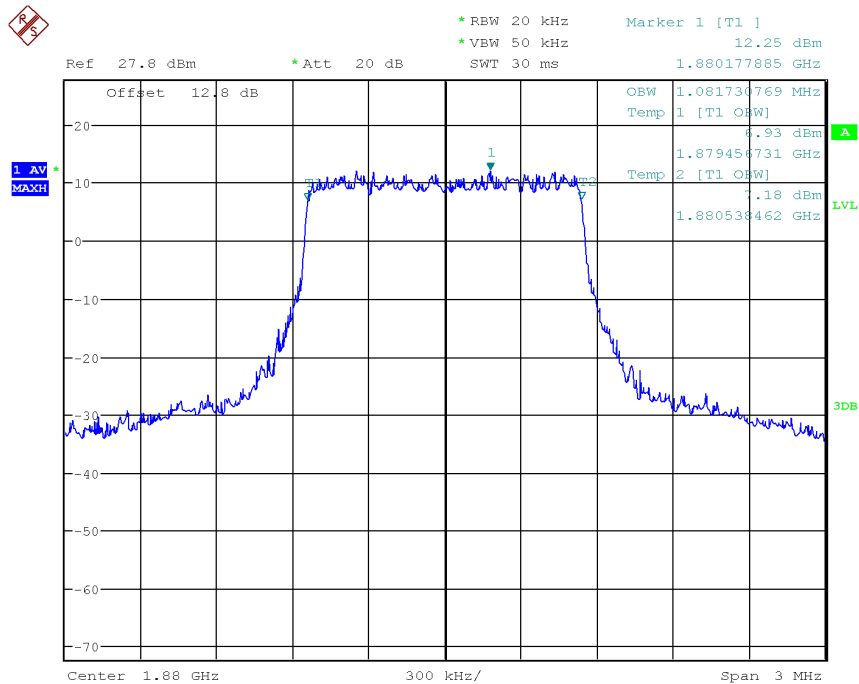
WCDMA B5 99% 16QAM



Date: 7.MAY.2019 14:36:02

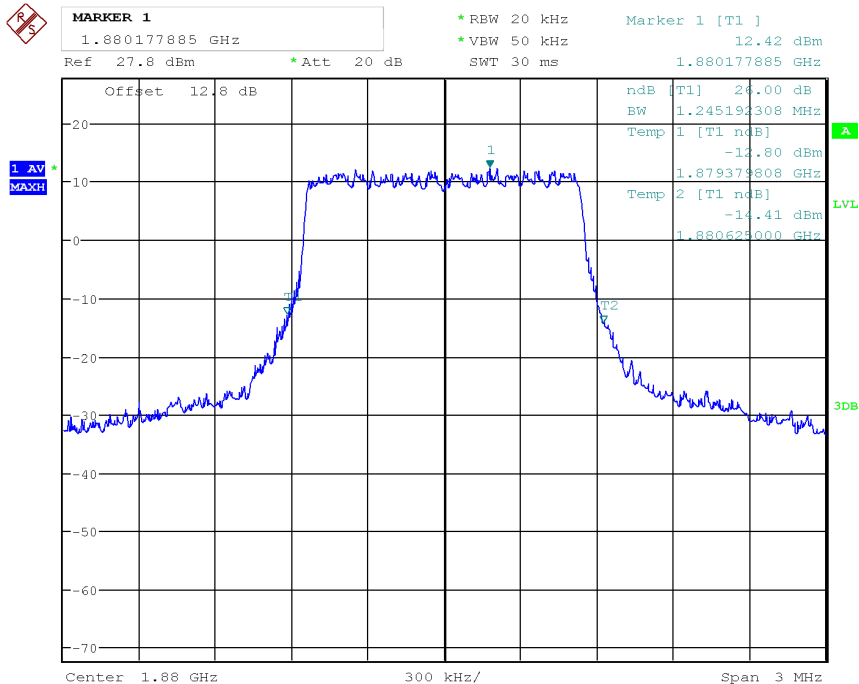
WCDMA B5 -26dBc 16QAM

Graphical results for LTE B2:



Date: 28.APR.2019 19:31:52

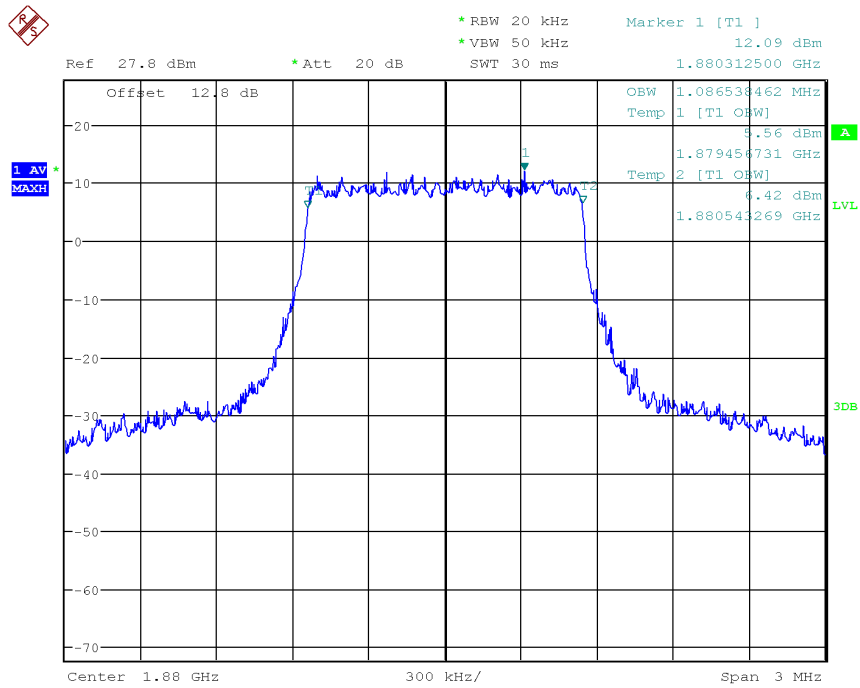
LTE Band2 QPSK 99% Channel 18900 BW=1.4MHz RB=6 RB Offset=0



Date: 28.APR.2019 19:31:34

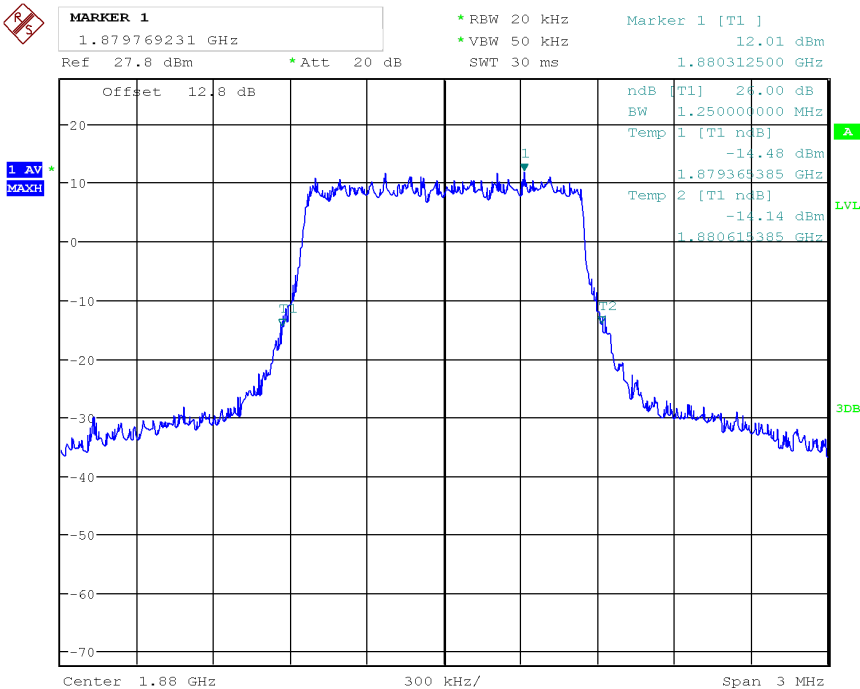
Report No.:B19W50128-WWAN

LTE Band2 QPSK -26dBc Channel 18900 BW=1.4MHz RB=6 RB Offset=0



Date: 28.APR.2019 19:32:16

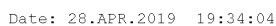
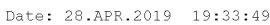
LTE Band2 16QAM 99% Channel 18900 BW=1.4MHz RB=6 RB Offset=0



Date: 28.APR.2019 19:32:34

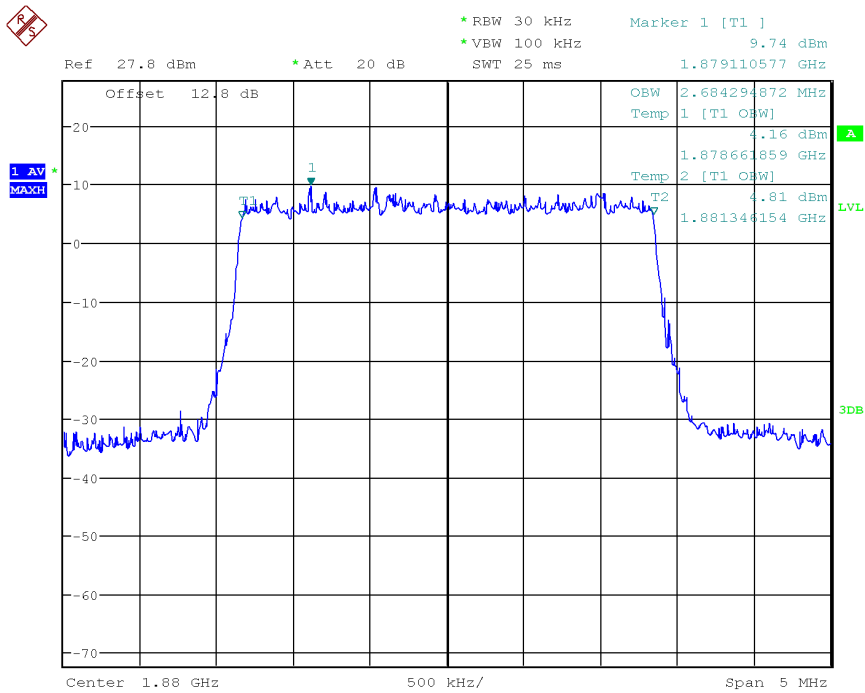
LTE Band2 16QAM -26dBc Channel 18900 BW=1.4MHz RB=6 RB Offset=0

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



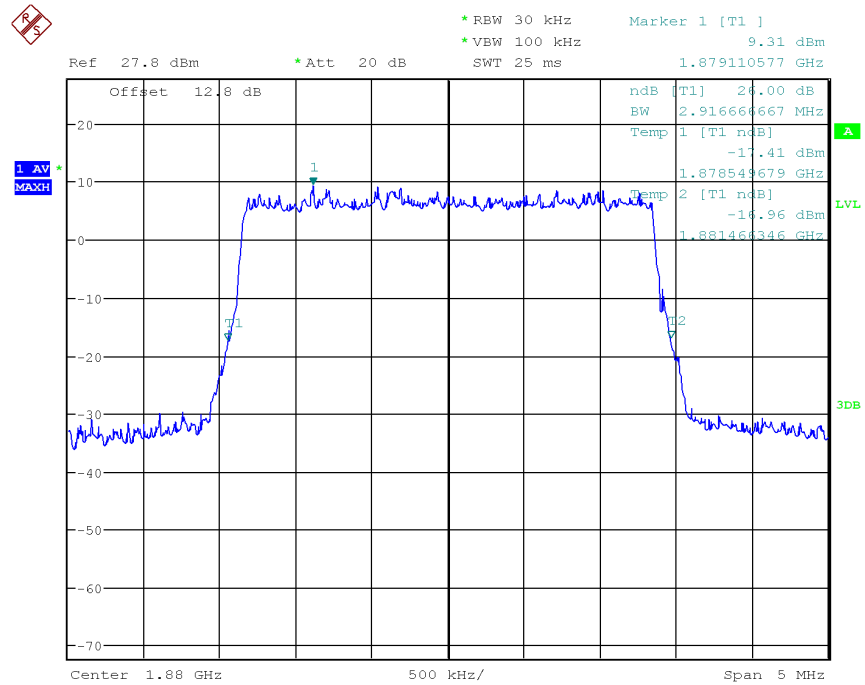
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:33:25

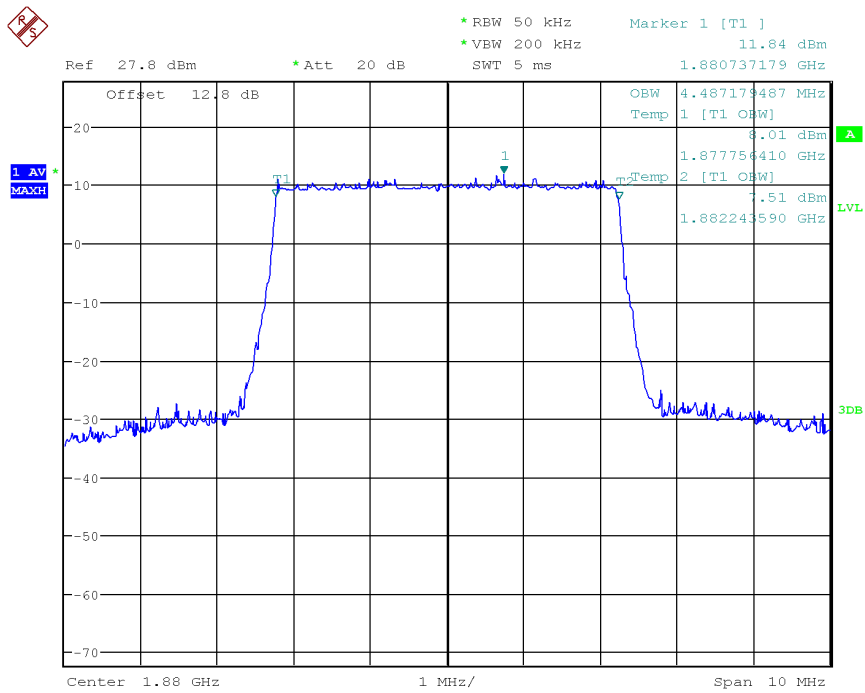
LTE Band2 16QAM 99% Channel 18900 BW=3MHz RB=15 RB Offset=0



Date: 28.APR.2019 19:33:10

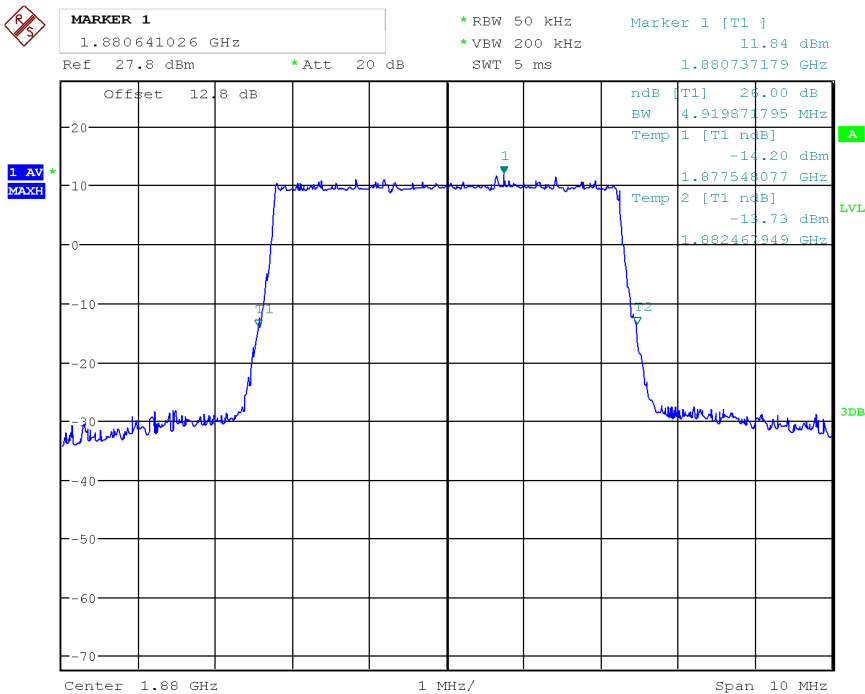
LTE Band2 16QAM -26dBc Channel 18900 BW=3MHz RB=15 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:35:39

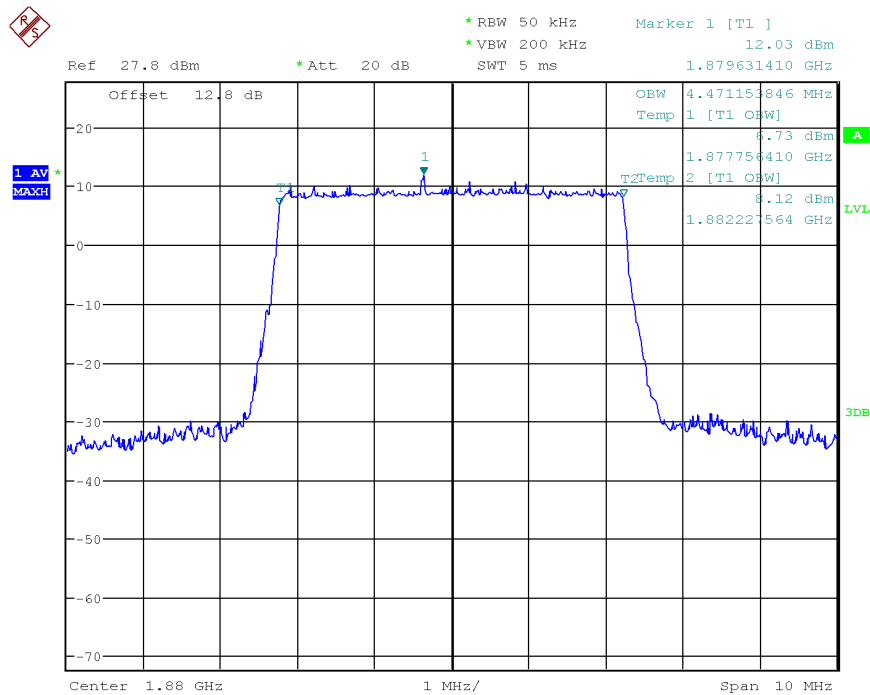
LTE Band2 QPSK 99% Channel 18900 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 19:35:56

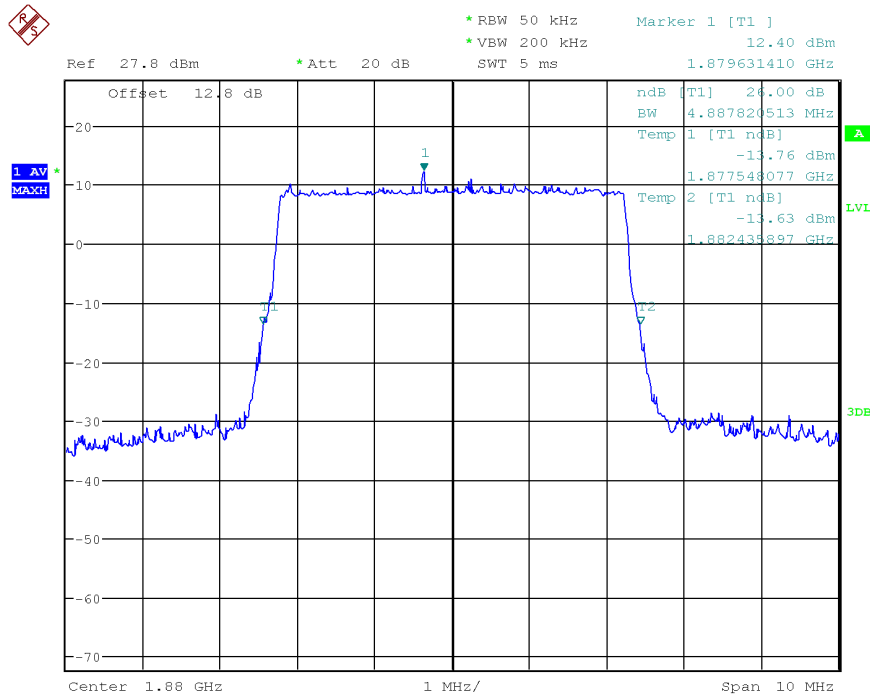
LTE Band2 QPSK -26dBc Channel 18900 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:35:18

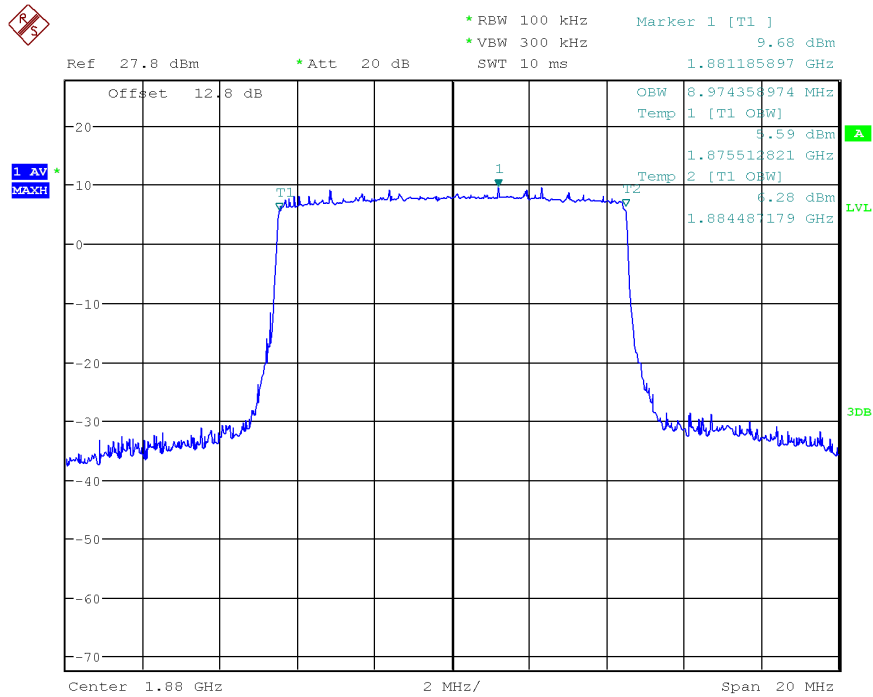
LTE Band2 16QAM 99% Channel 18900 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 19:34:55

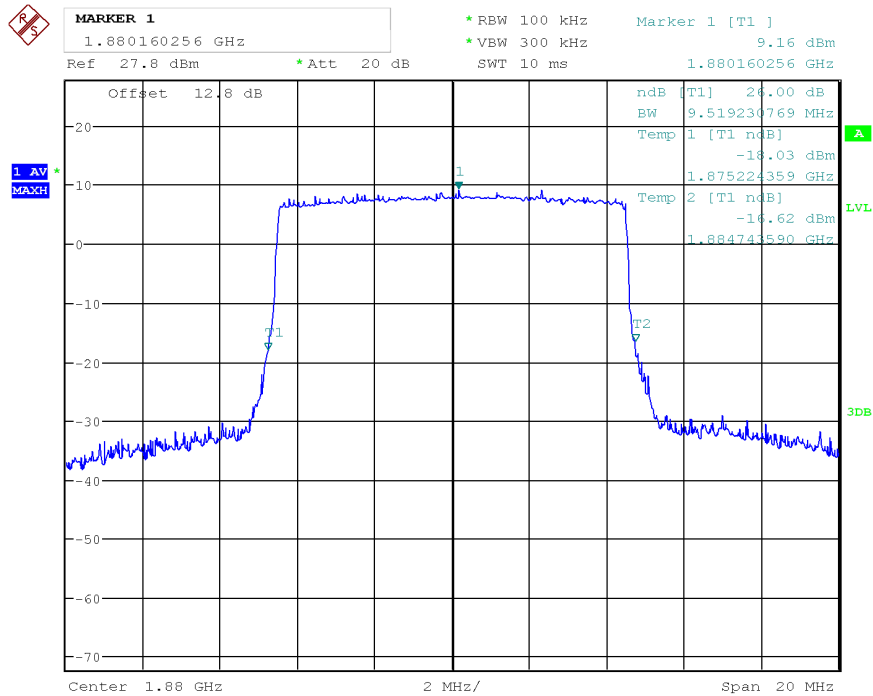
LTE Band2 16QAM -26dBc Channel 18900 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:37:22

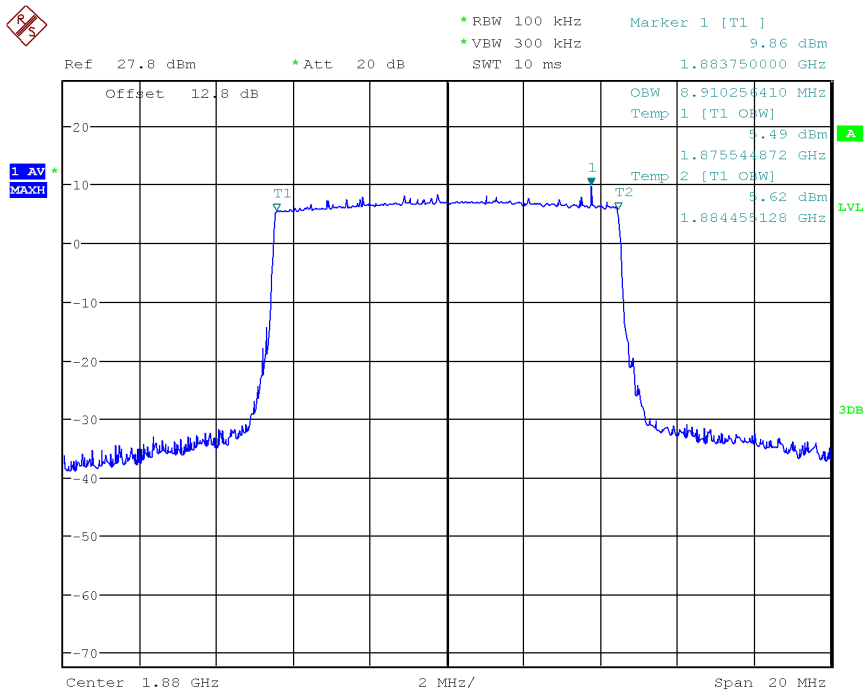
LTE Band2 QPSK 99% Channel 18900 BW=10MHz RB=50 RB Offset=0



Date: 28.APR.2019 19:37:36

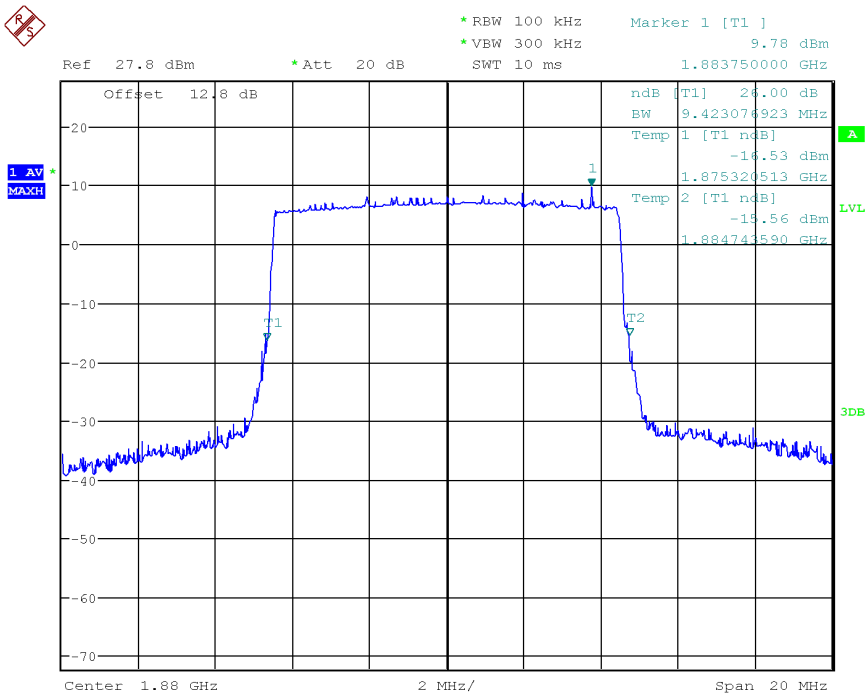
LTE Band2 QPSK -26dBc Channel 18900 BW=10MHz RB=50 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:36:53

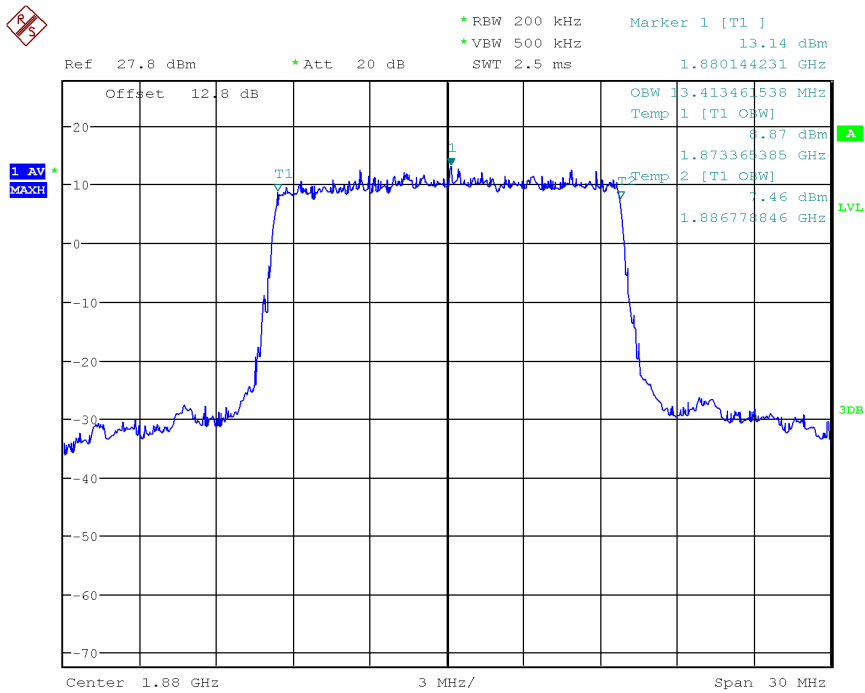
LTE Band2 16QAM 99% Channel 18900 BW=10MHz RB=27 RB Offset=0



Date: 28.APR.2019 19:36:32

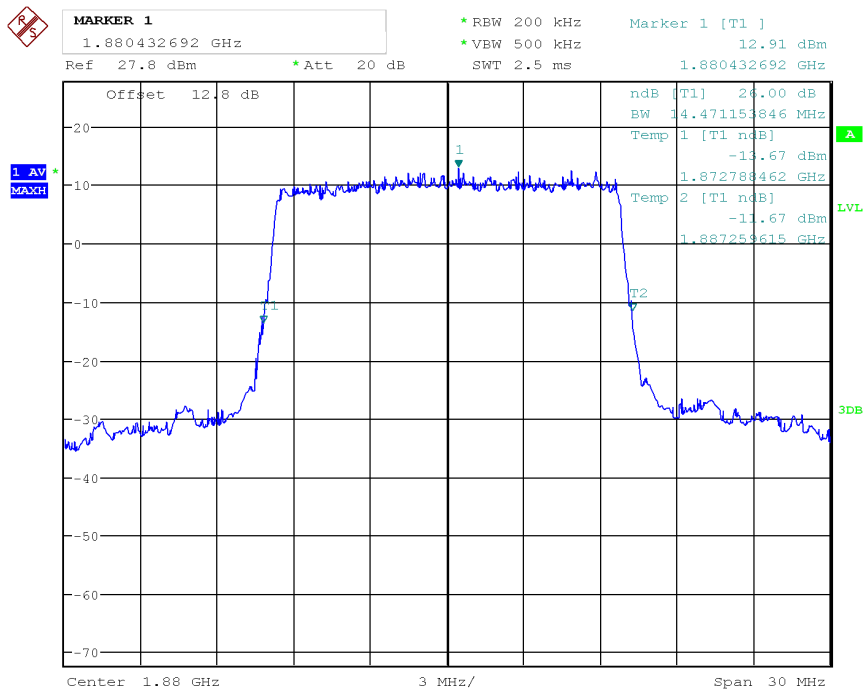
LTE Band2 16QAM -26dBc Channel 18900 BW=10MHz RB=27 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:39:00

LTE Band2 QPSK 99% Channel 18900 BW=15MHz RB=75 RB Offset=0

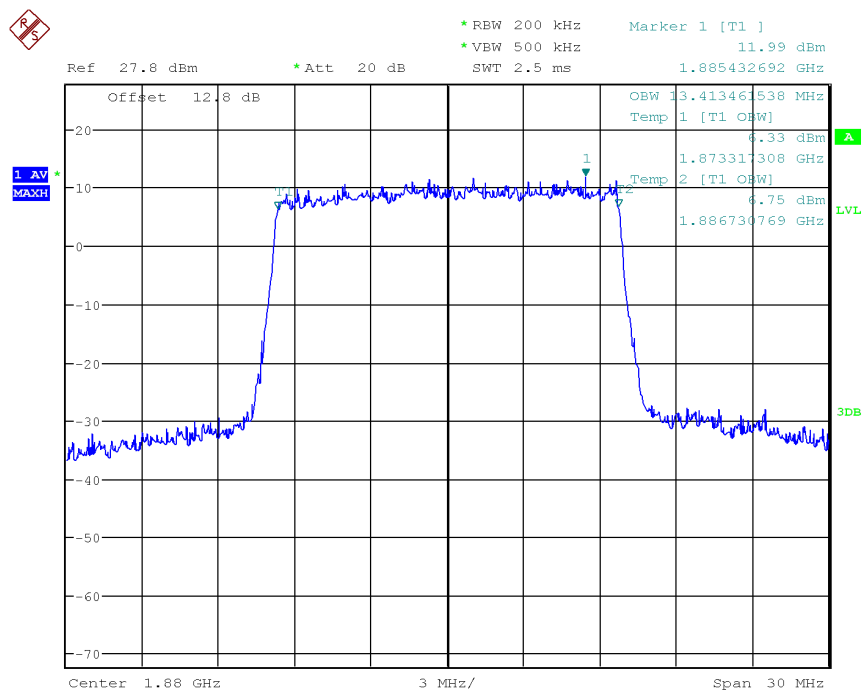


Date: 28.APR.2019 19:39:19

LTE Band2 QPSK -26dBc Channel 18900 BW=15MHz RB=75 RB Offset=0

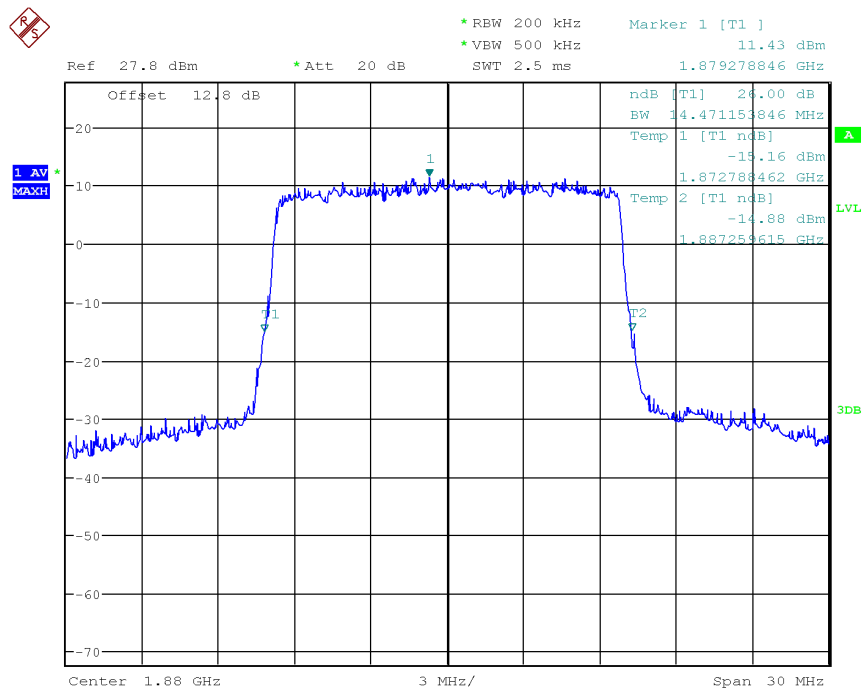
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:38:36

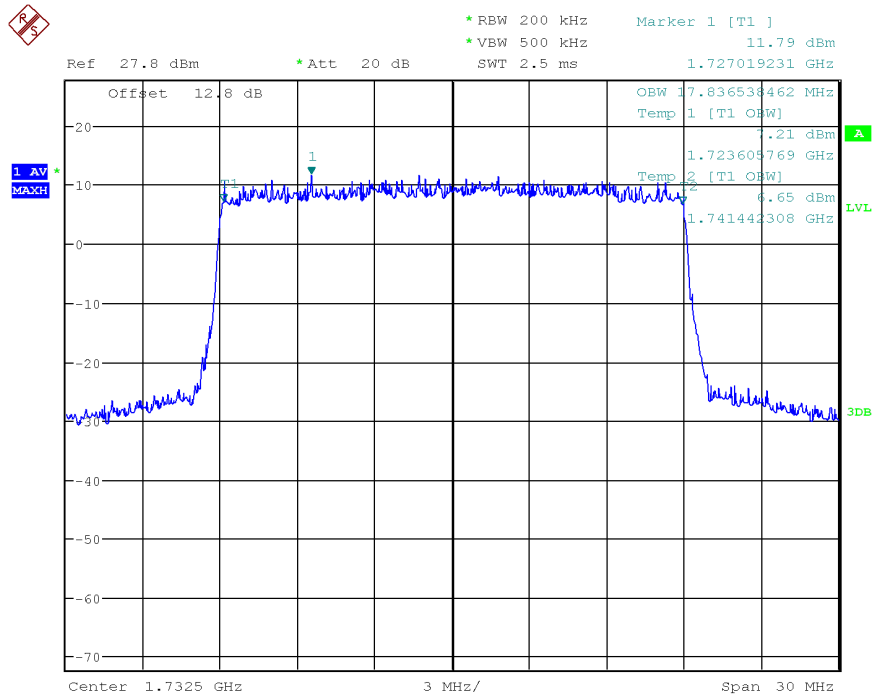
LTE Band2 16QAM 99% Channel 18900 BW=15MHz RB=27 RB Offset=0



Date: 28.APR.2019 19:38:19

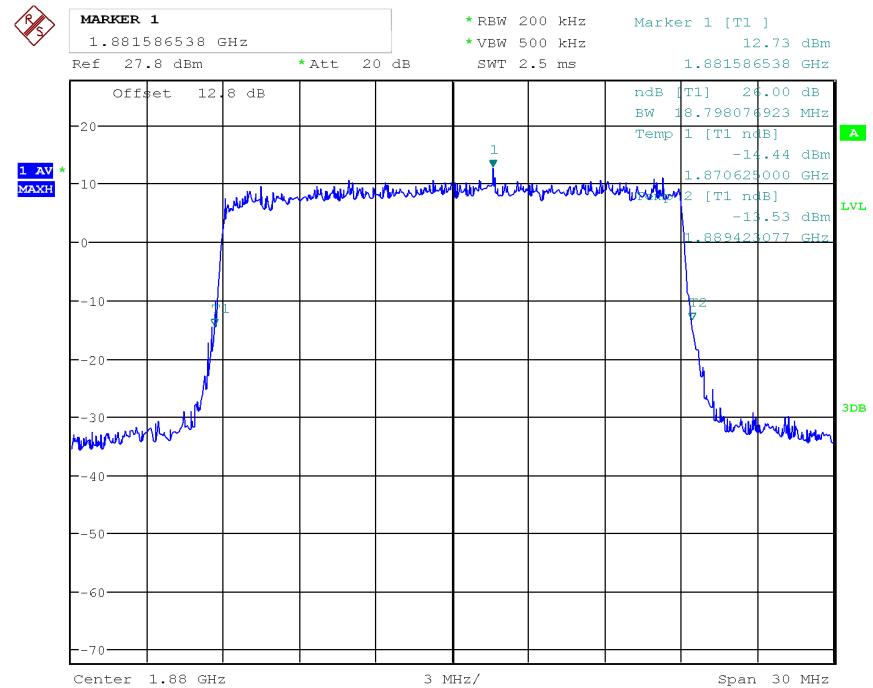
LTE Band2 16QAM -26dBc Channel 18900 BW=15MHz RB=27 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:50:11

LTE Band2 QPSK 99% Channel 18900 BW=20MHz RB=100 RB Offset=0

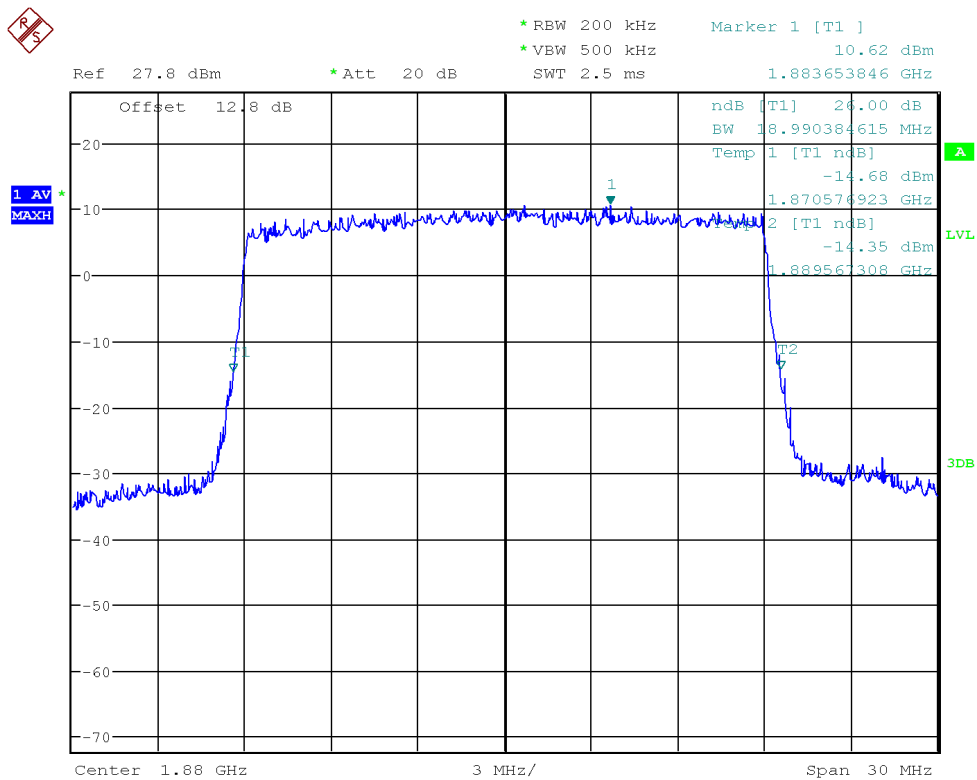


Date: 28.APR.2019 19:41:01

LTE Band2 QPSK -26dBc Channel 18900 BW=20MHz RB=100 RB Offset=0



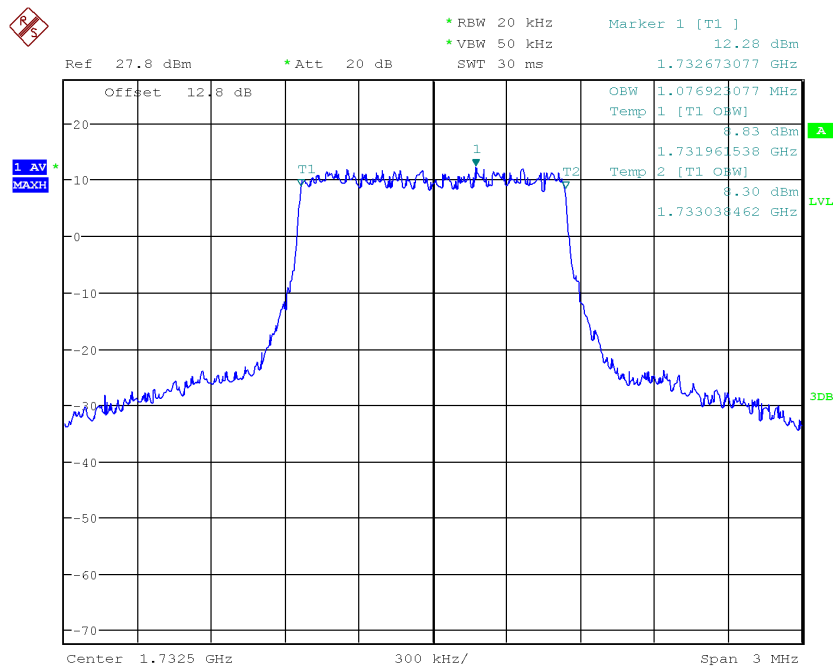
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



Date: 28.APR.2019 19:39:54

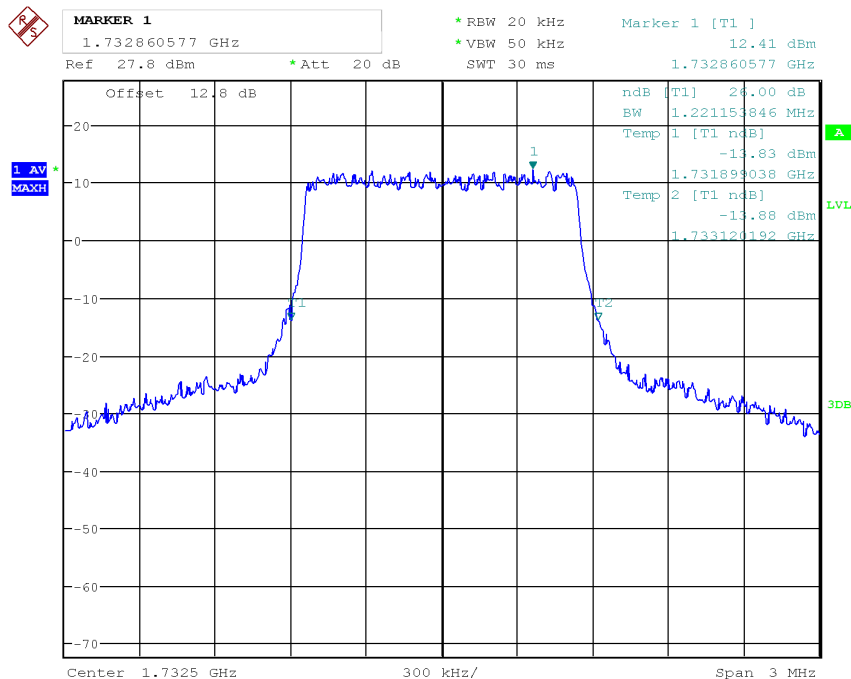
LTE Band2 16QAM -26dBc Channel 18900 BW=20MHz RB=27 RB Offset=0

Graphical results for LTE B4:



Date: 28.APR.2019 19:42:32

LTE Band4 QPSK 99% Channel 20175 BW=1.4MHz RB=6 RB Offset=0

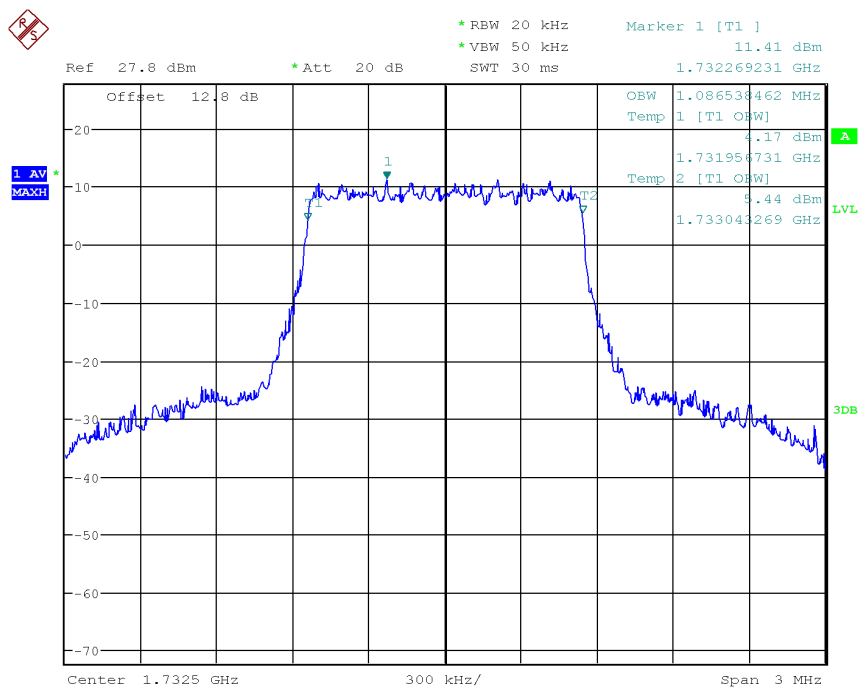


Date: 28.APR.2019 19:42:49

LTE Band4 QPSK -26dBc Channel 20175 BW=1.4MHz RB=6 RB Offset=0

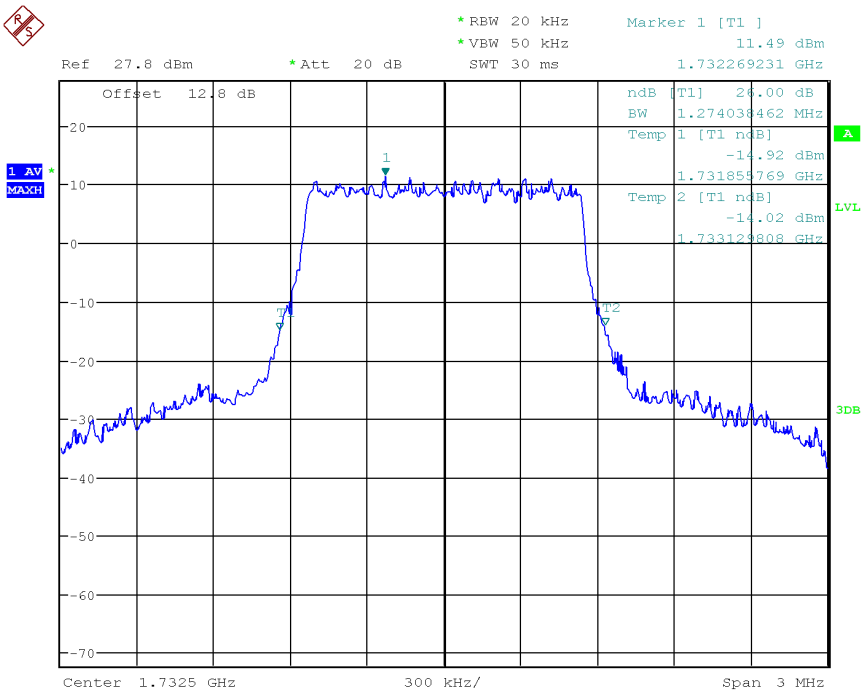
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:42:10

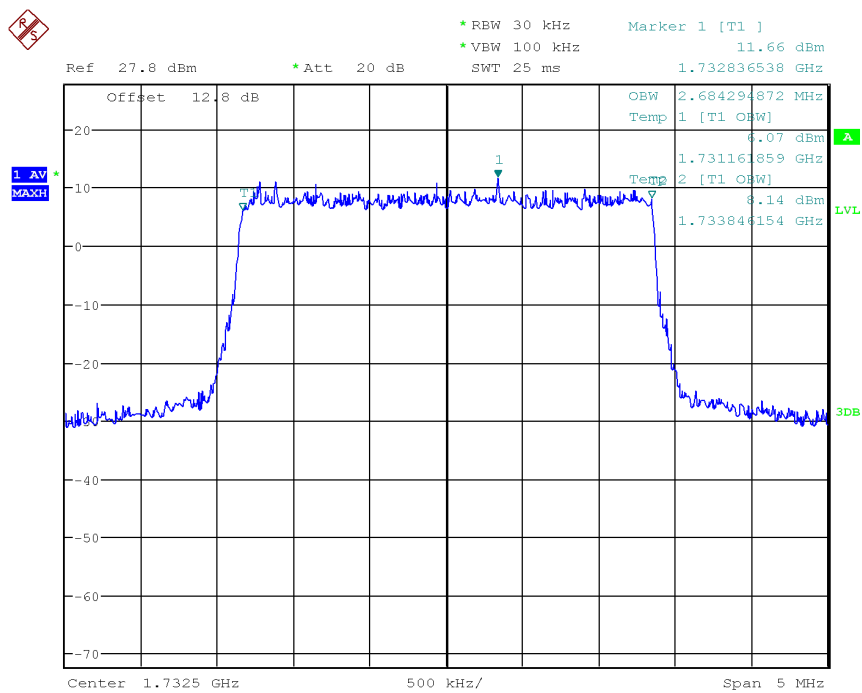
LTE Band4 16QAM 99% Channel 20175 BW=1.4MHz RB=6 RB Offset=0



Date: 28.APR.2019 19:41:56

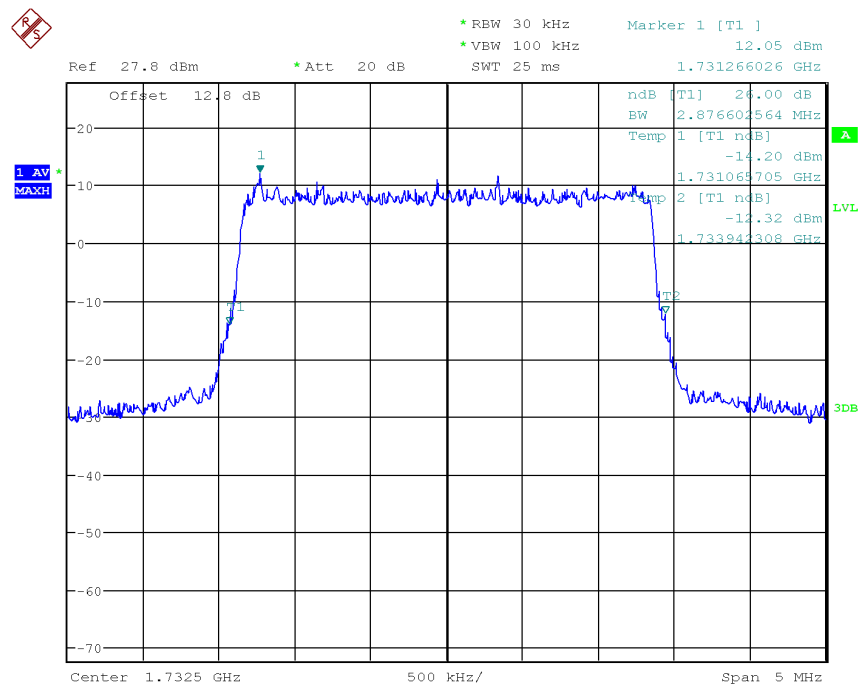
LTE Band4 16QAM -26dBc Channel 20175 BW=1.4MHz RB=6 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:43:44

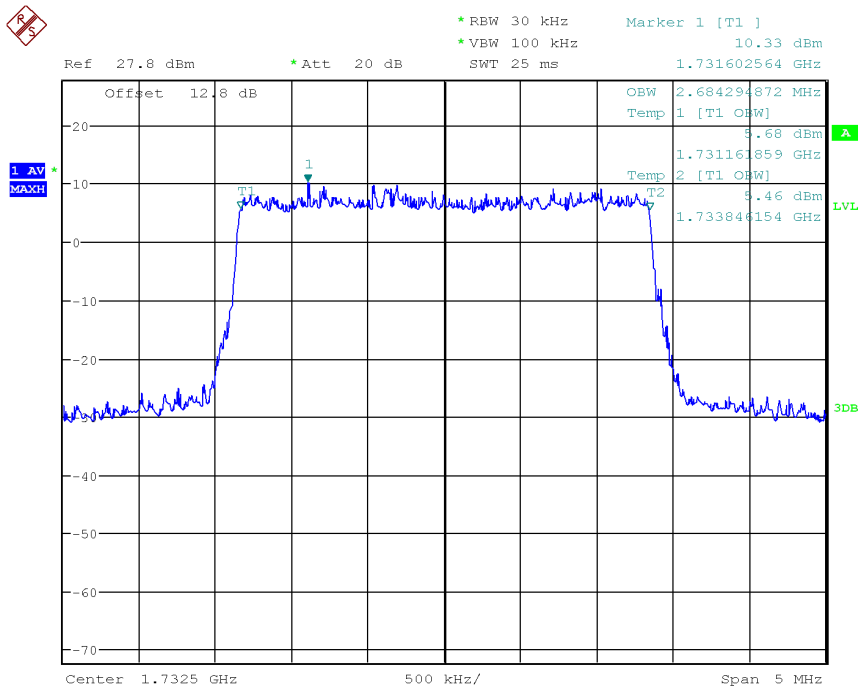
LTE Band4 QPSK 99% Channel 20175 BW=3MHz RB=15 RB Offset=0



Date: 28.APR.2019 19:43:27

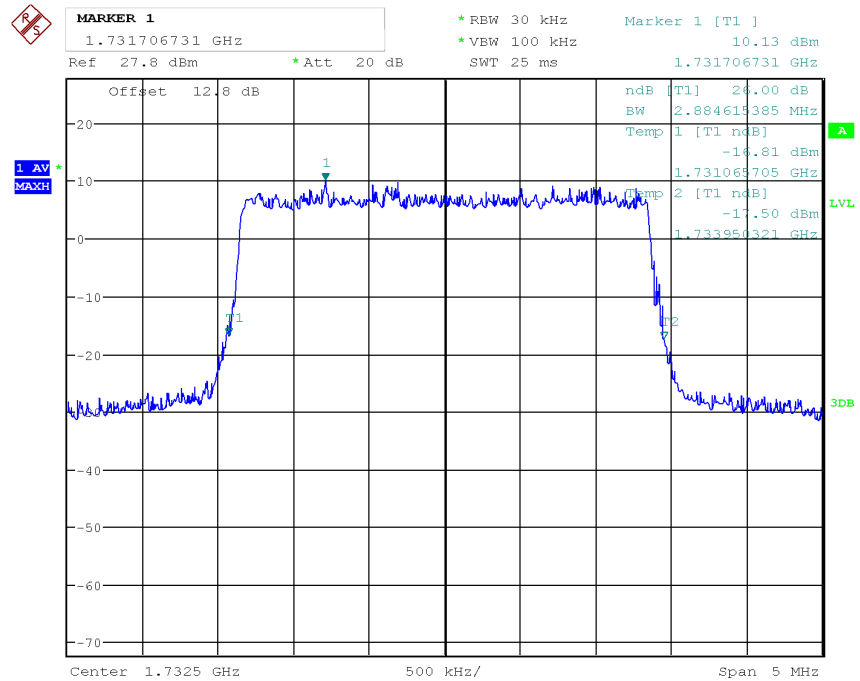
LTE Band4 QPSK -26dBc Channel 20175 BW=3MHz RB=15 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:44:13

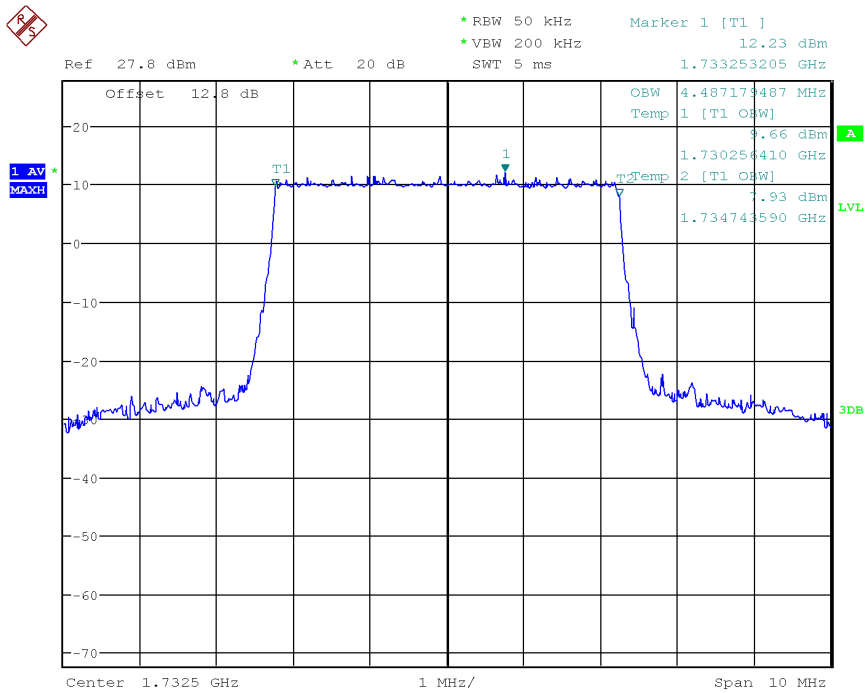
LTE Band4 16QAM 99% Channel 20175 BW=3MHz RB=15 RB Offset=0



Date: 28.APR.2019 19:44:27

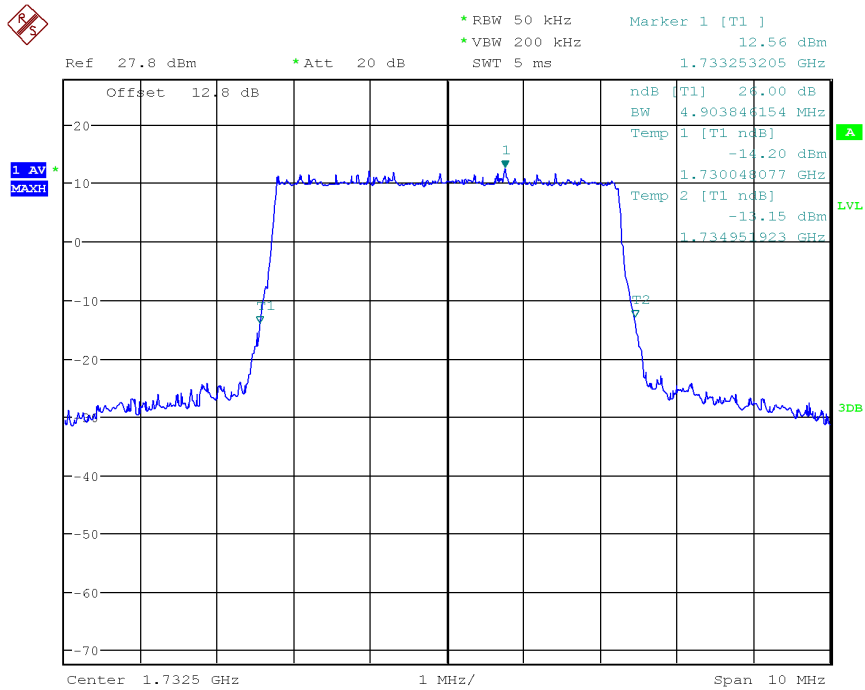
LTE Band4 16QAM -26dBc Channel 20175 BW=3MHz RB=15 RB Offset=0

Report No.:B19W50128-WWAN



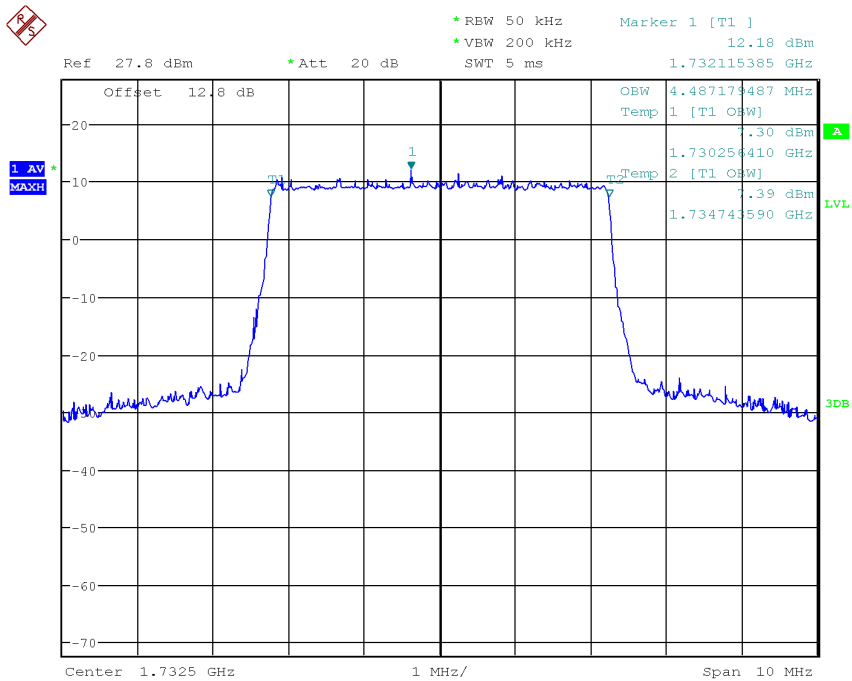
Date: 28.APR.2019 19:45:20

LTE Band4 QPSK 99% Channel 20175 BW=5MHz RB=25 RB Offset=0



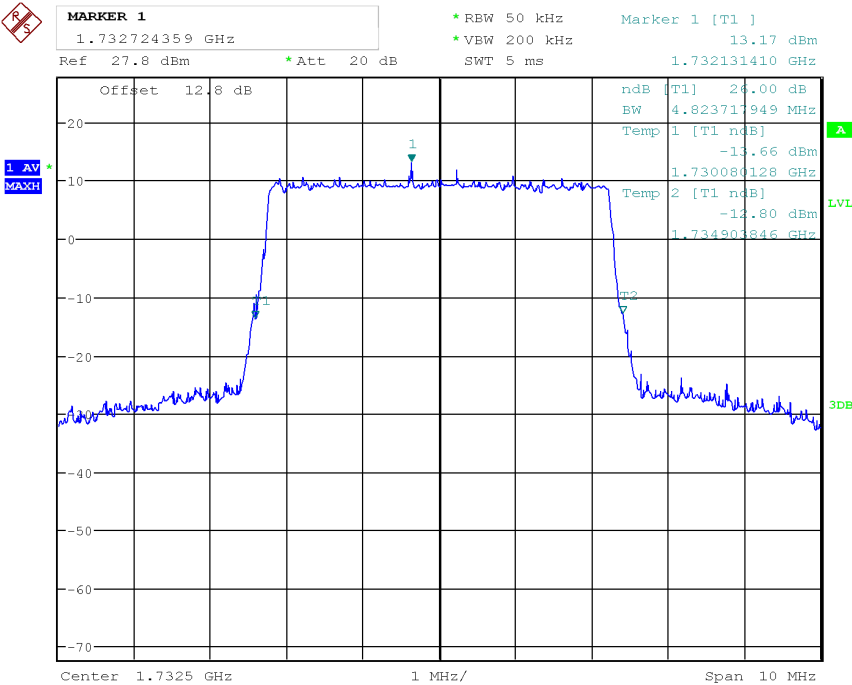
Date: 28.APR.2019 19:45:03

LTE Band4 QPSK -26dBc Channel 20175 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 19:45:54

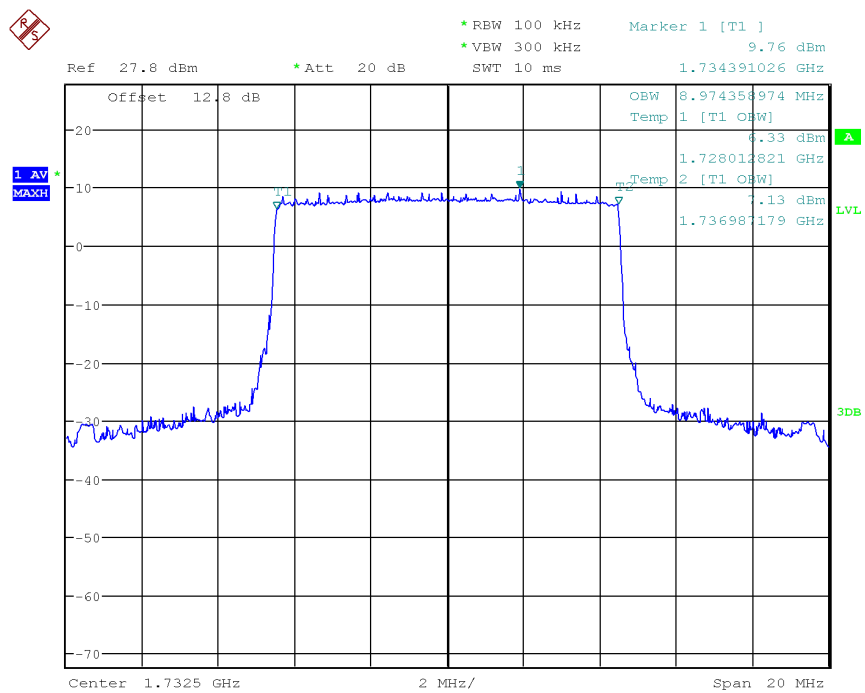
LTE Band4 16QAM 99% Channel 20175 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 19:46:07

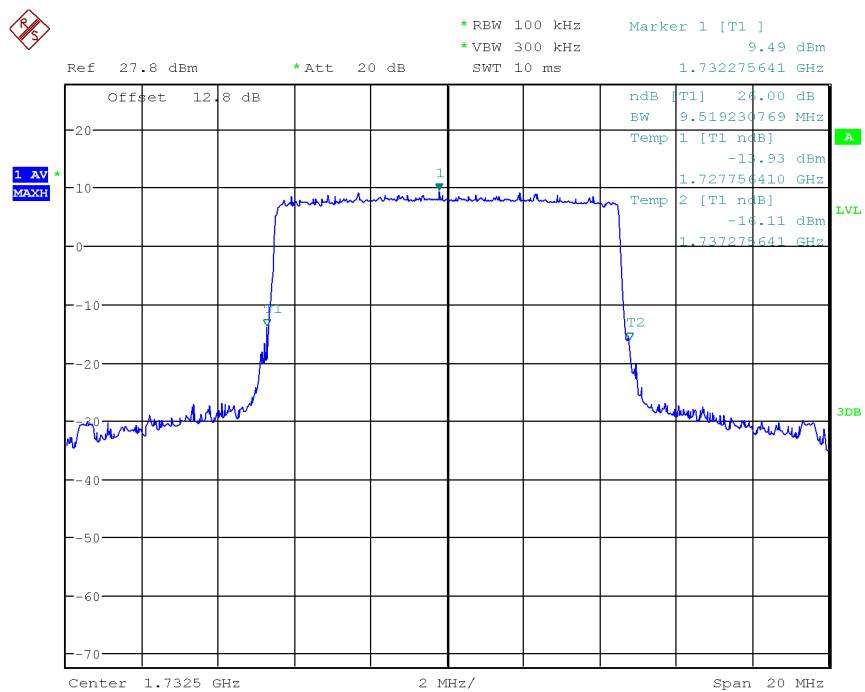
LTE Band4 16QAM -26dBc Channel 20175 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:47:09

LTE Band4 QPSK 99% Channel 20175 BW=10MHz RB=50 RB Offset=0

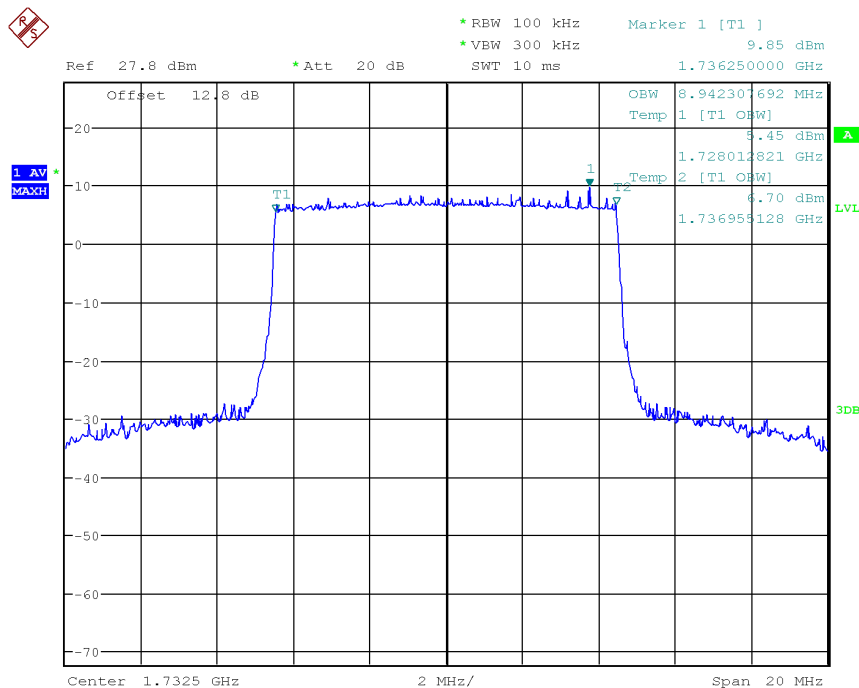


Date: 28.APR.2019 19:46:52

LTE Band4 QPSK -26dBc Channel 20175 BW=10MHz RB=50 RB Offset=0

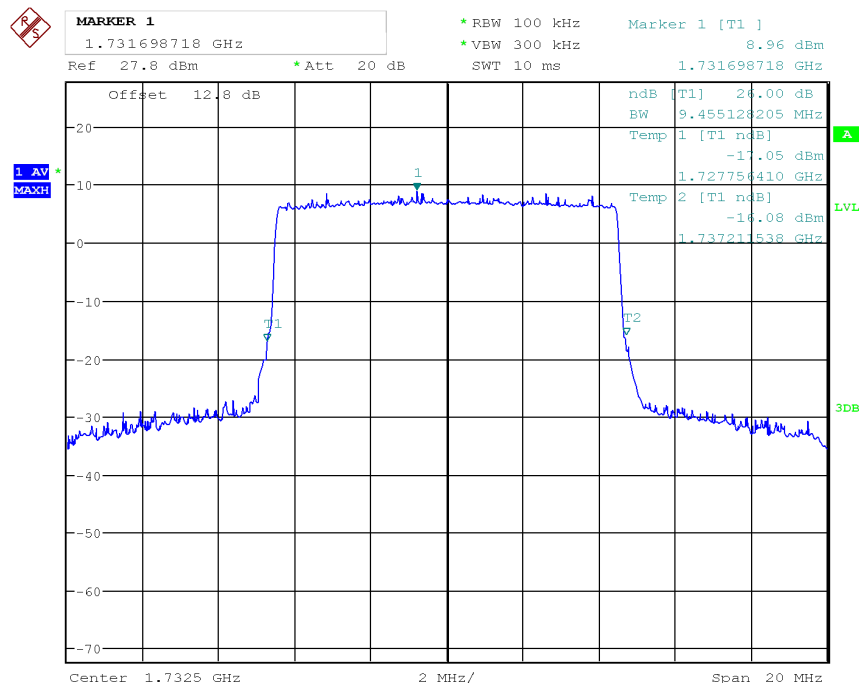
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:47:35

LTE Band4 16QAM 99% Channel 20175 BW=10MHz RB=27 RB Offset=0

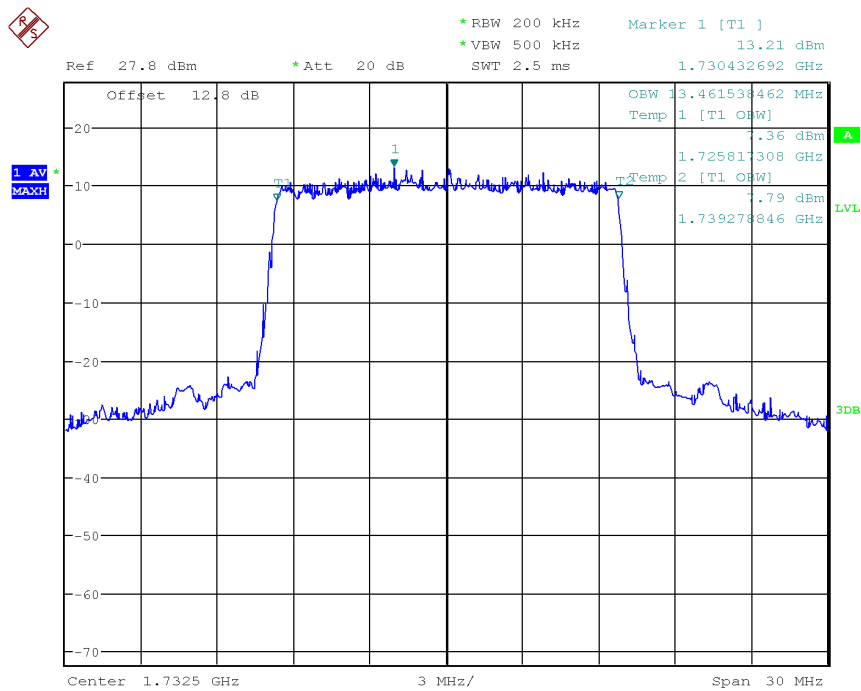


Date: 28.APR.2019 19:47:53

LTE Band4 16QAM -26dBc Channel 20175 BW=10MHz RB=27 RB Offset=0

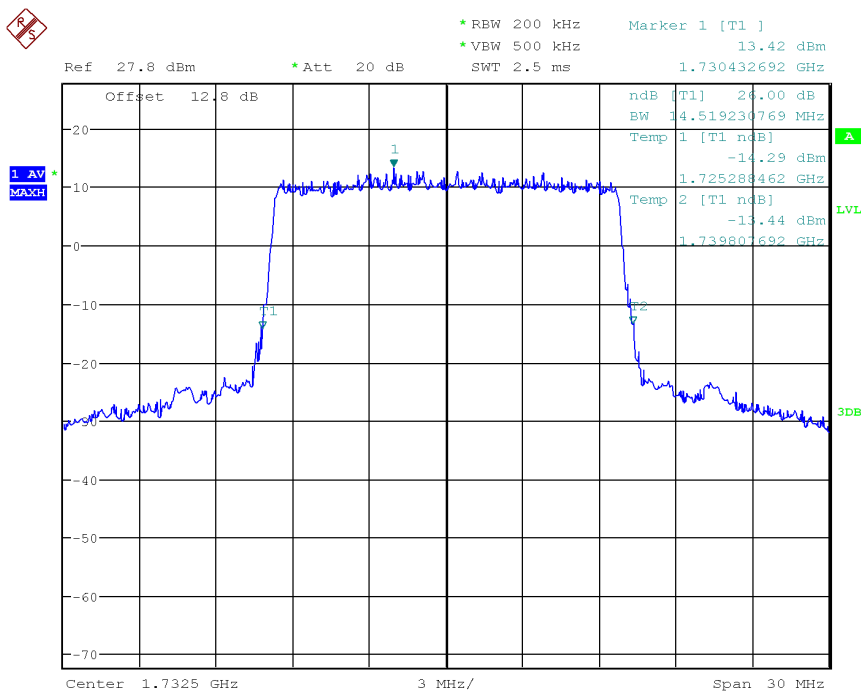
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:48:54

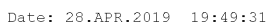
LTE Band4 QPSK 99% Channel 20175 BW=15MHz RB=75 RB Offset=0



Date: 28.APR.2019 19:48:39

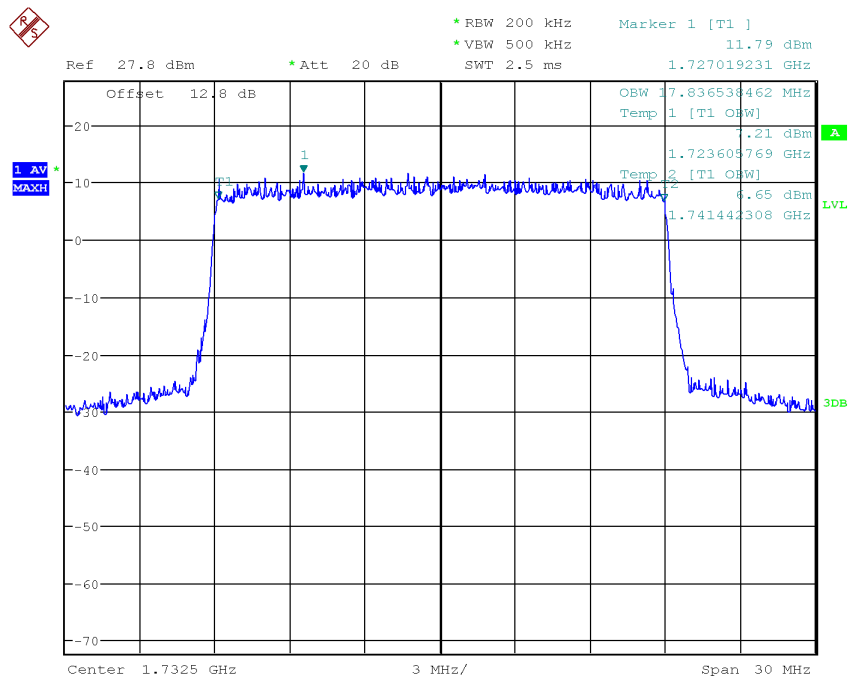
LTE Band4 QPSK -26dBc Channel 20175 BW=15MHz RB=75 RB Offset=0

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



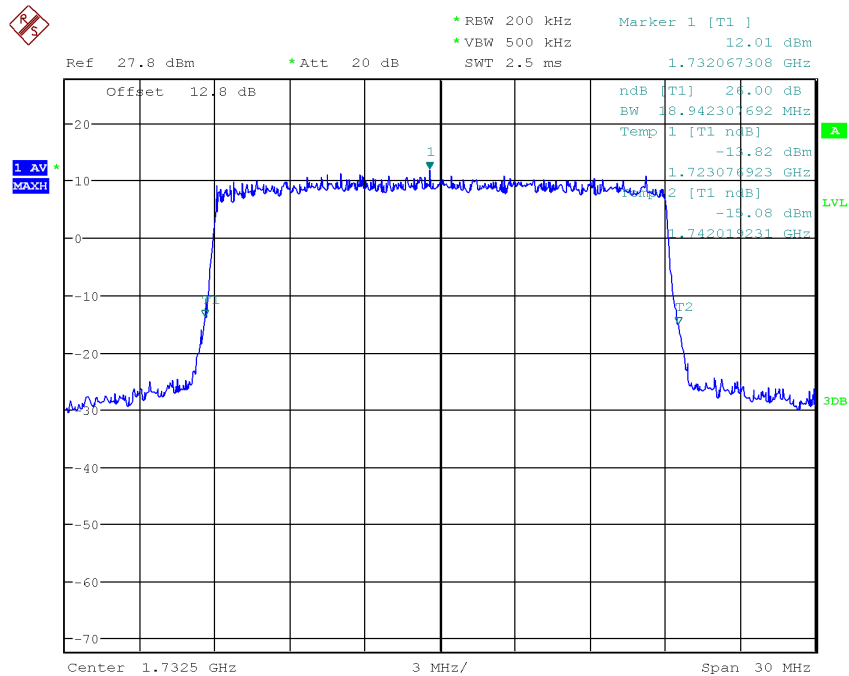
Page 89 of 383

Report No.:B19W50128-WWAN



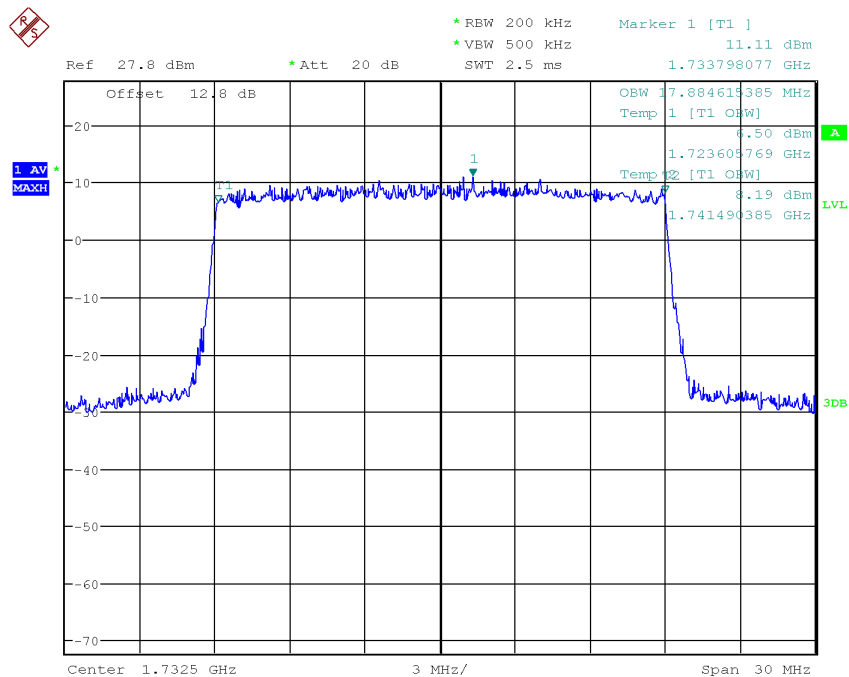
Date: 28.APR.2019 19:50:11

LTE Band4 QPSK 99% Channel 20175 BW=20MHz RB=100 RB Offset=0



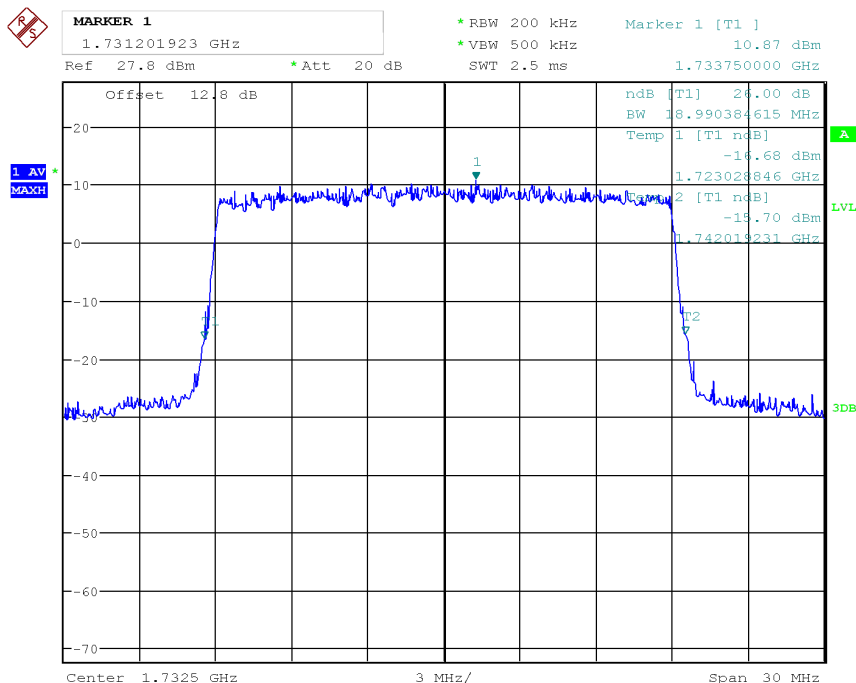
Date: 28.APR.2019 19:49:57

LTE Band4 QPSK -26dBc Channel 20175 BW=20MHz RB=100 RB Offset=0



Date: 28.APR.2019 19:50:36

LTE Band4 16QAM 99% Channel 20175 BW=20MHz RB=27 RB Offset=0

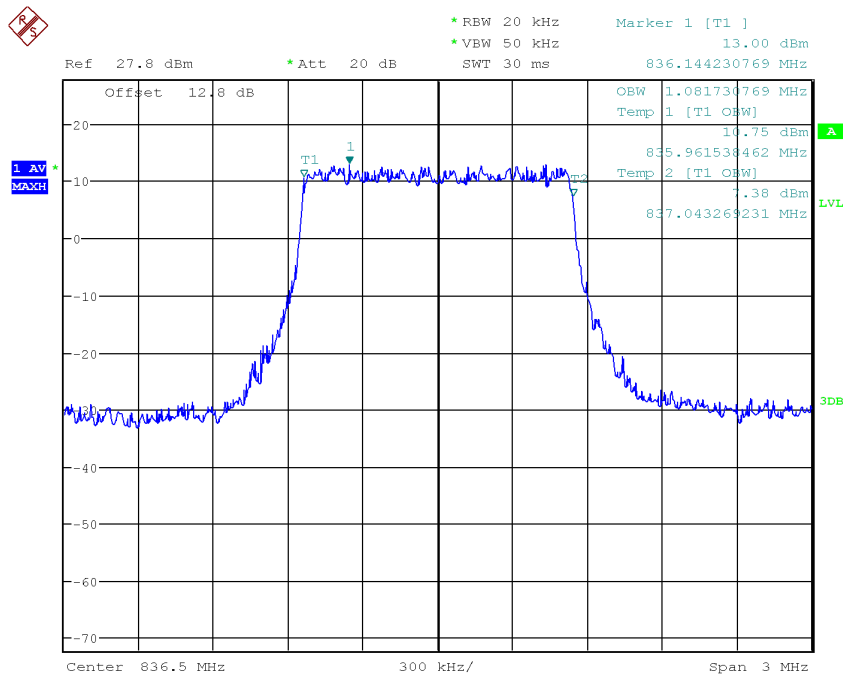


Date: 28.APR.2019 19:50:53

LTE Band4 16QAM -26dBc Channel 20175 BW=20MHz RB=27 RB Offset=0

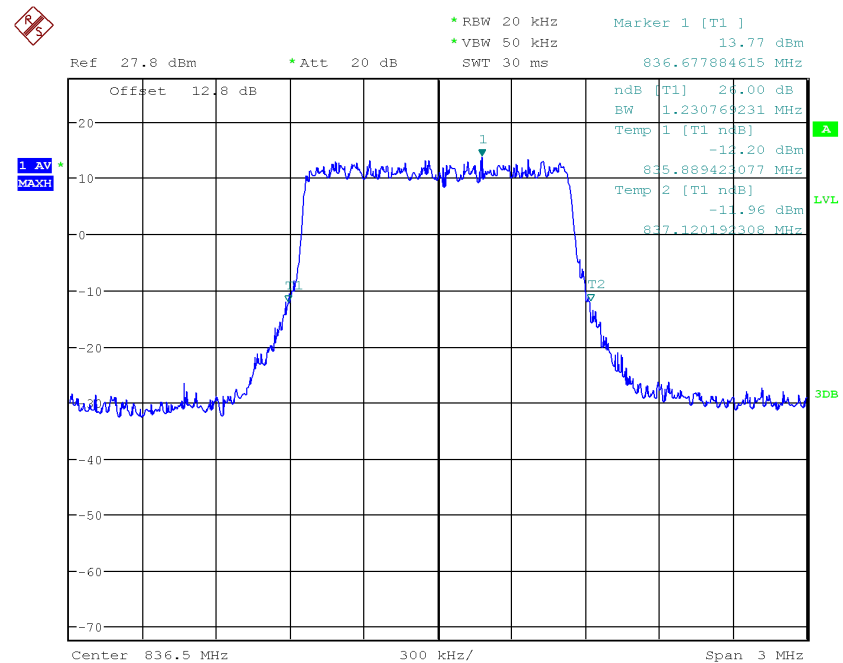
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Graphical results for LTE B5:



Date: 28.APR.2019 19:53:03

LTE Band5 QPSK 99% Channel 20525 BW=1.4MHz RB=6 RB Offset=0

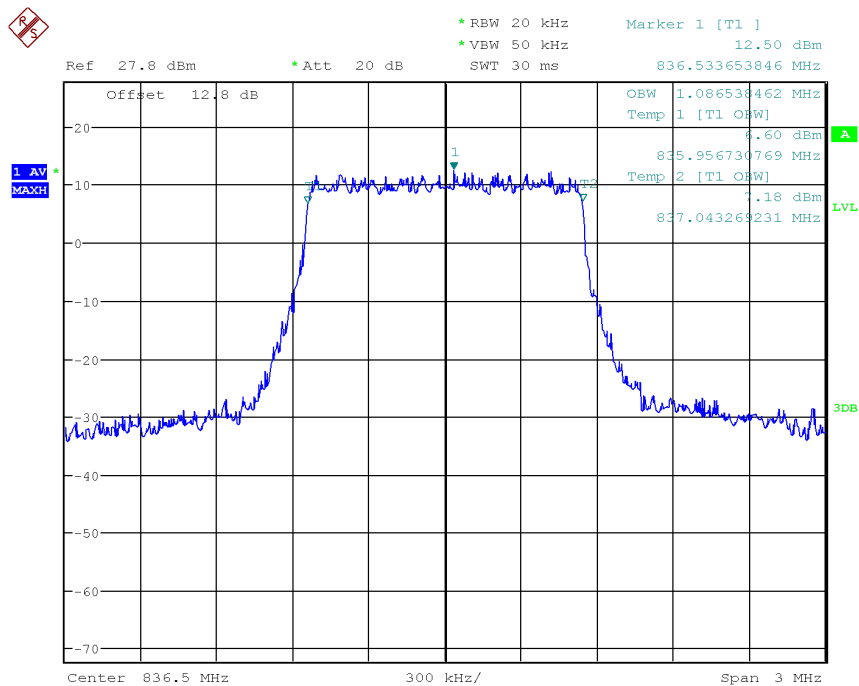


Date: 28.APR.2019 19:52:37

LTE Band5 QPSK -26dBc Channel 20525 BW=1.4MHz RB=6 RB Offset=0

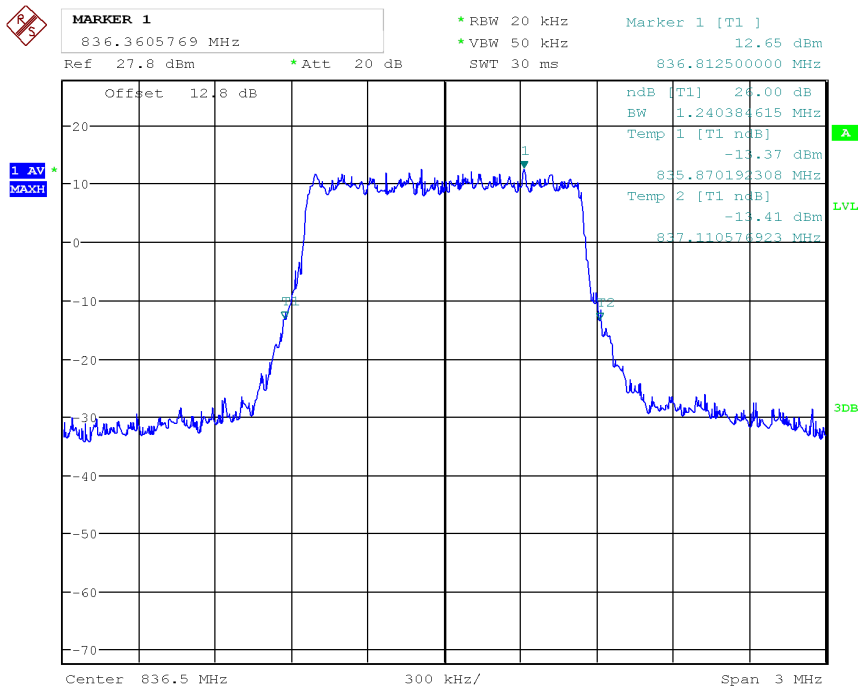
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 19:53:26

LTE Band5 16QAM 99% Channel 20525 BW=1.4MHz RB=6 RB Offset=0



Date: 28.APR.2019 19:53:41

LTE Band5 16QAM -26dBc Channel 20525 BW=1.4MHz RB=6 RB Offset=0



MARKER 1
835.2580128 MHz

* RBW 30 kHz
* VBW 100 kHz
SWT 25 ms

Marker 1 [T1]
24.00 dB
12.56 dBm
835.258012821 MHz

Ref 27.8 dBm * Att 20 dB

Offset 12.8 dB

1 AV
MAXH

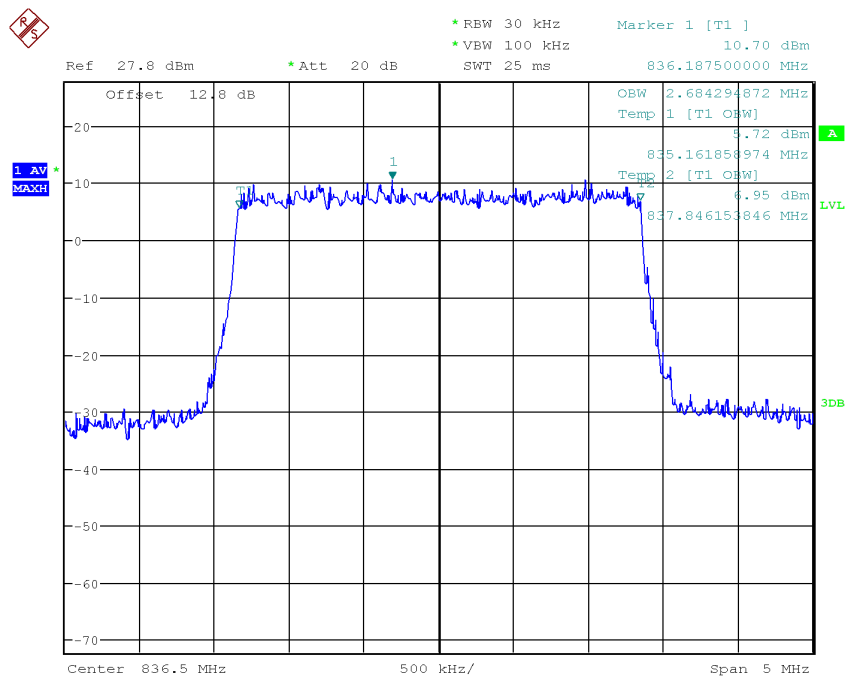
1 24.00 dB
2.868583744 MHz
Temp 1 [T1 ndB]
-13.81 dBm
835.049679487 MHz
Temp 2 [T1 ndB]
-14.23 dBm
837.818263231 MHz

3dB

Center 836.5 MHz 500 kHz/ Span 5 MHz

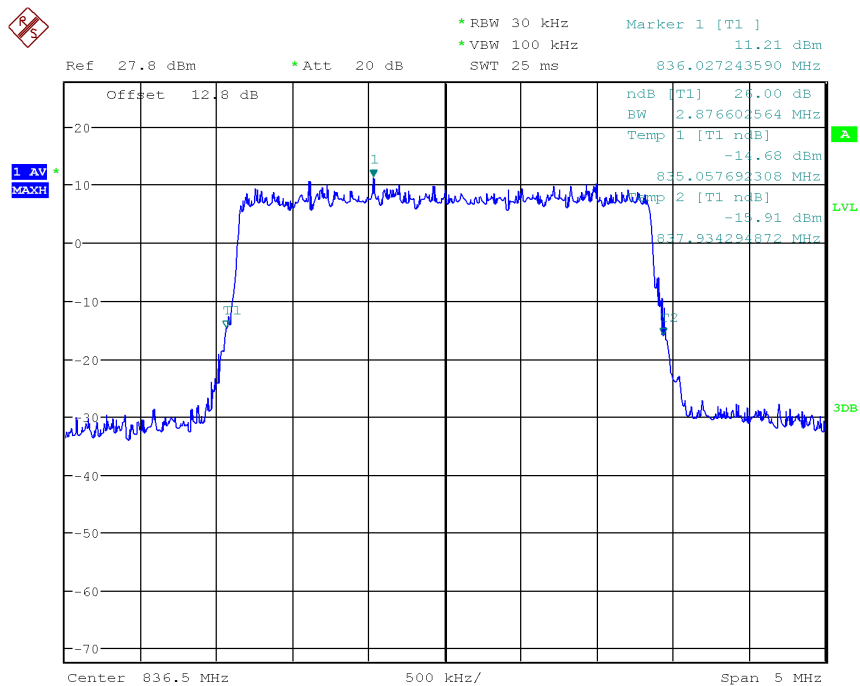
Date: 28.APR.2019 19:55:18

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



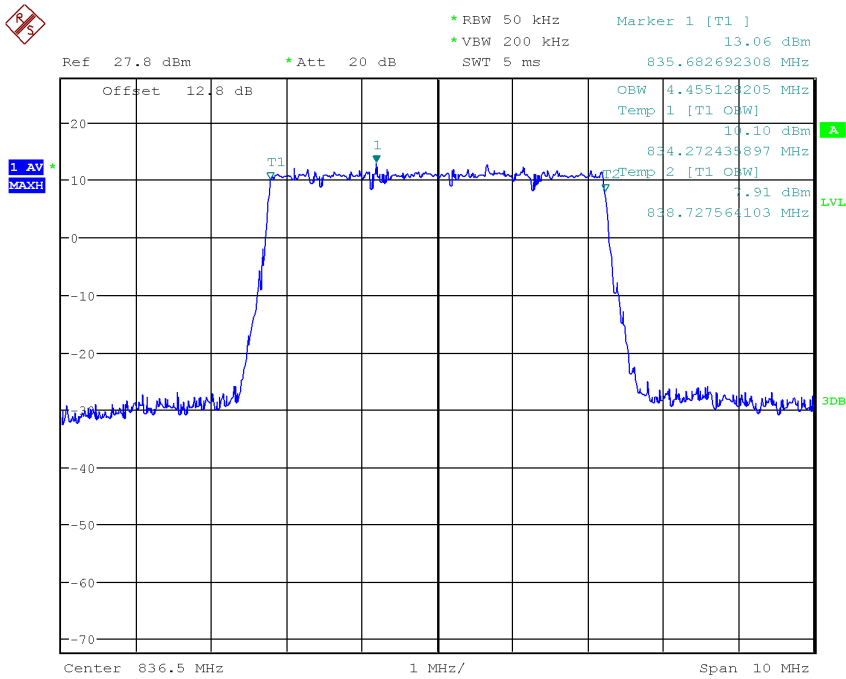
Date: 28.APR.2019 19:54:34

LTE Band5 16QAM 99% Channel 20525 BW=3MHz RB=15 RB Offset=0



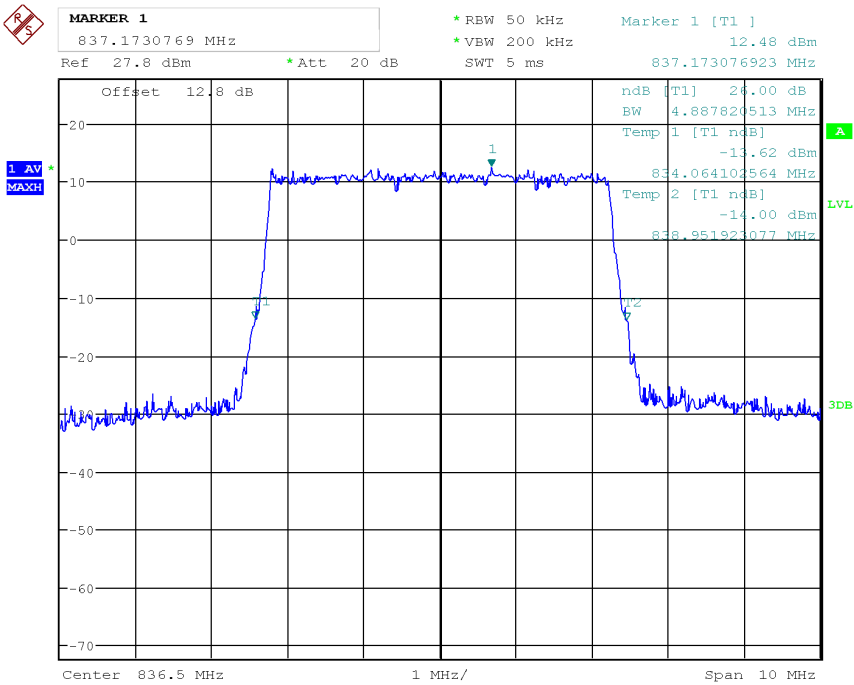
Date: 28.APR.2019 19:54:15

LTE Band5 16QAM -26dBc Channel 20525 BW=3MHz RB=15 RB Offset=0



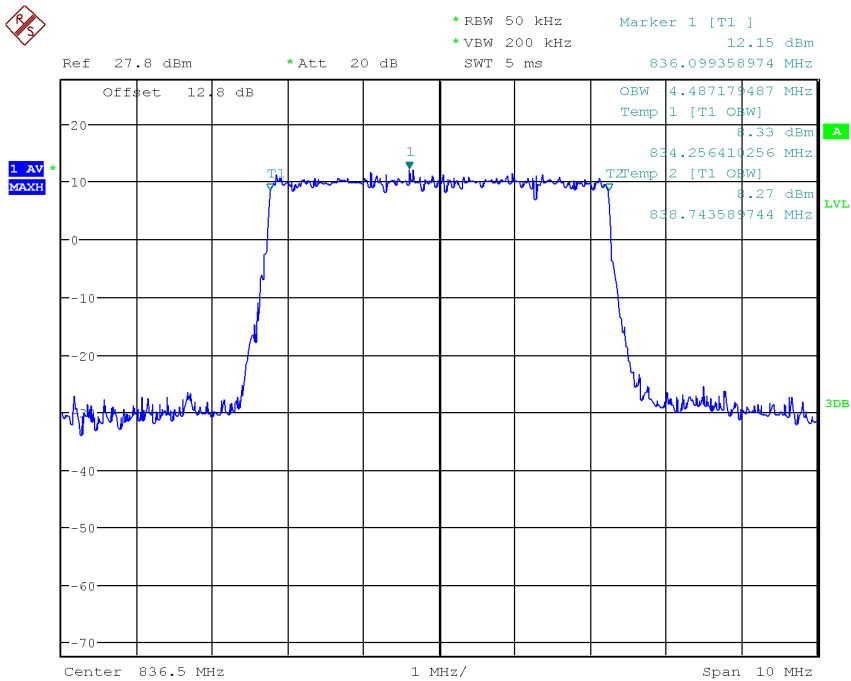
Date: 28.APR.2019 19:56:44

LTE Band5 QPSK 99% Channel 20525 BW=5MHz RB=25 RB Offset=0



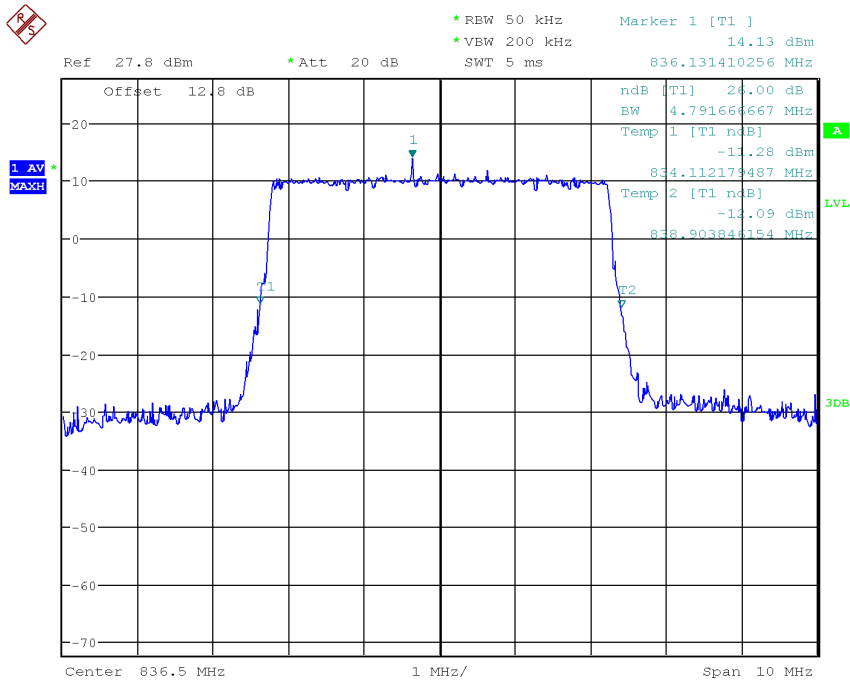
Date: 28.APR.2019 19:57:00

LTE Band5 QPSK -26dBc Channel 20525 BW=5MHz RB=25 RB Offset=0



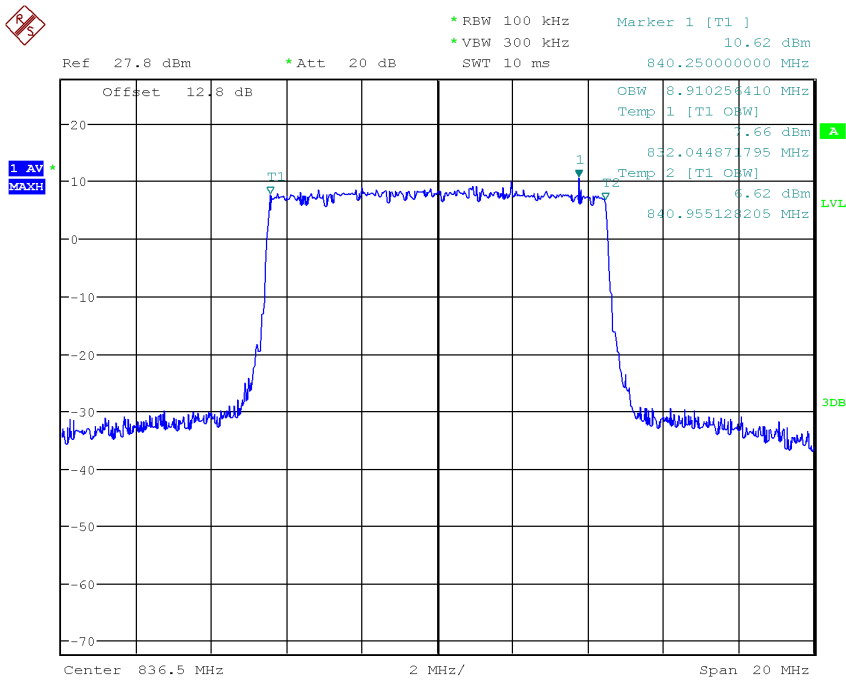
Date: 28.APR.2019 19:56:18

LTE Band5 16QAM 99% Channel 20525 BW=5MHz RB=25 RB Offset=0



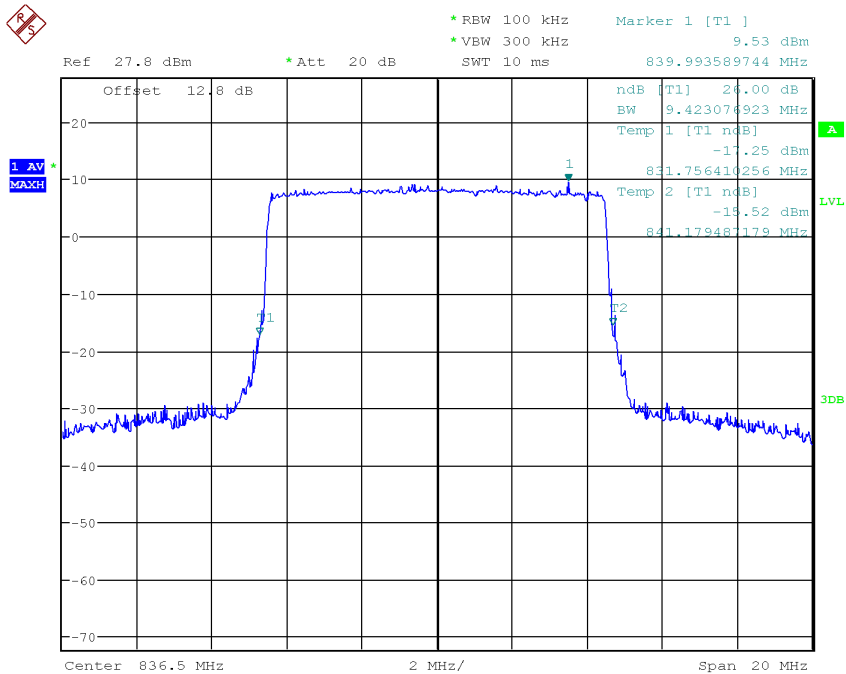
Date: 28.APR.2019 19:56:01

LTE Band5 16QAM -26dBc Channel 20525 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 19:58:05

LTE Band5 16QAM 99% Channel 20525 BW=10MHz RB=27 RB Offset=0

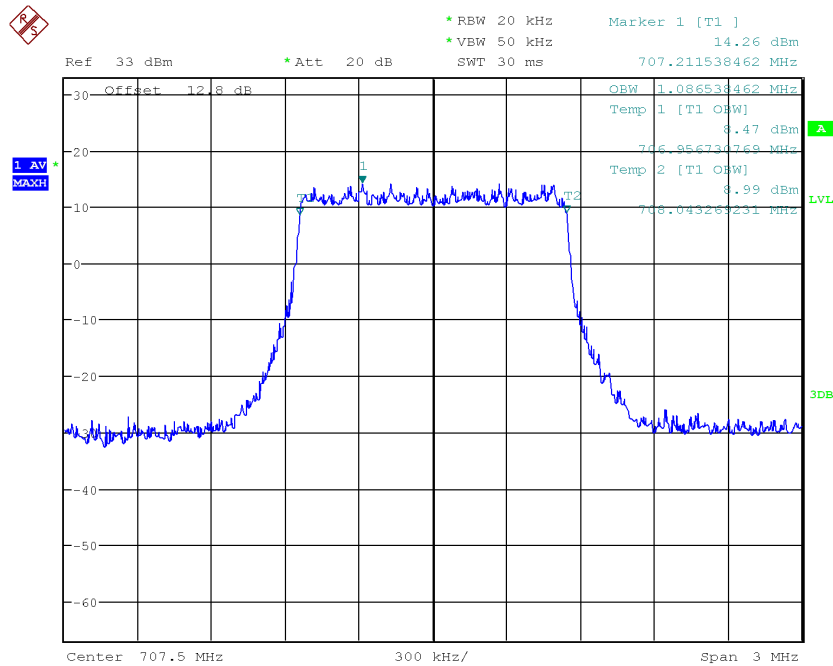


Date: 28.APR.2019 19:57:42

LTE Band5 16QAM -26dBc Channel 20525 BW=10MHz RB=27 RB Offset=0

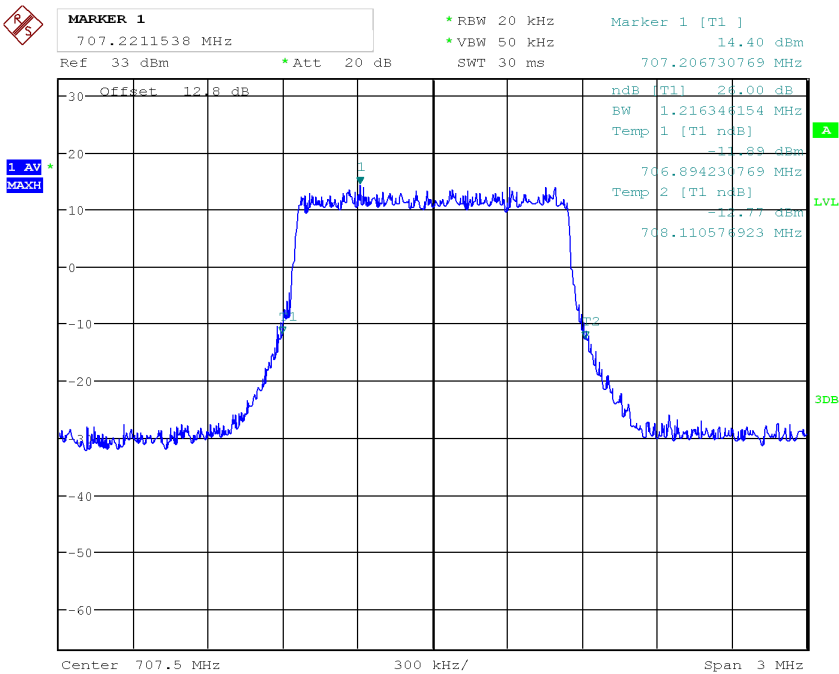
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Graphical results for LTE B12:



Date: 28.APR.2019 20:00:51

LTE Band12 QPSK 99% Channel 20095 BW=1.4MHz RB=6RB Offset=0

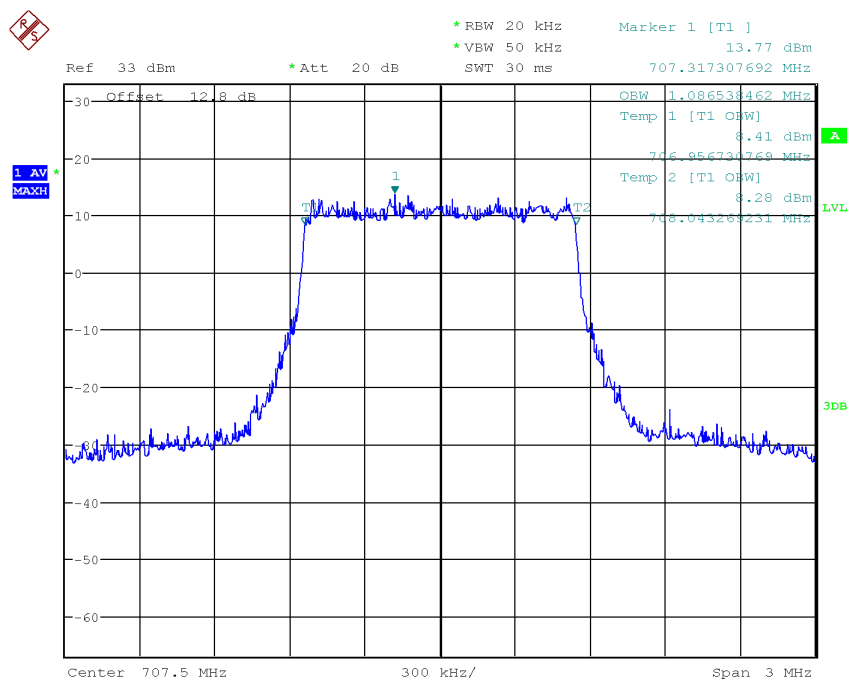


Date: 28.APR.2019 20:01:07

LTE Band12 QPSK -26dBc Channel 20095 BW=1.4MHz RB=6 RB Offset=0

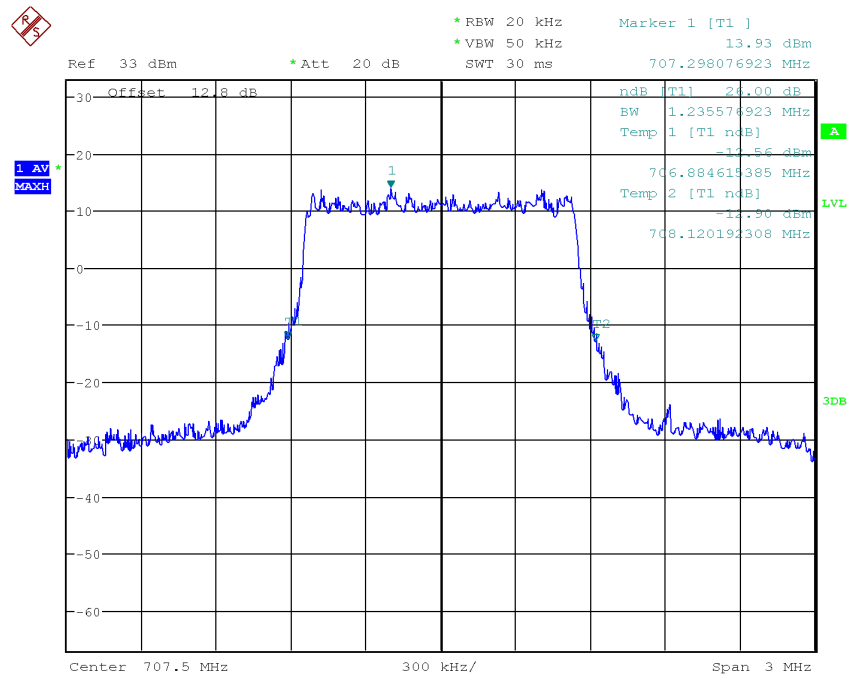
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:00:23

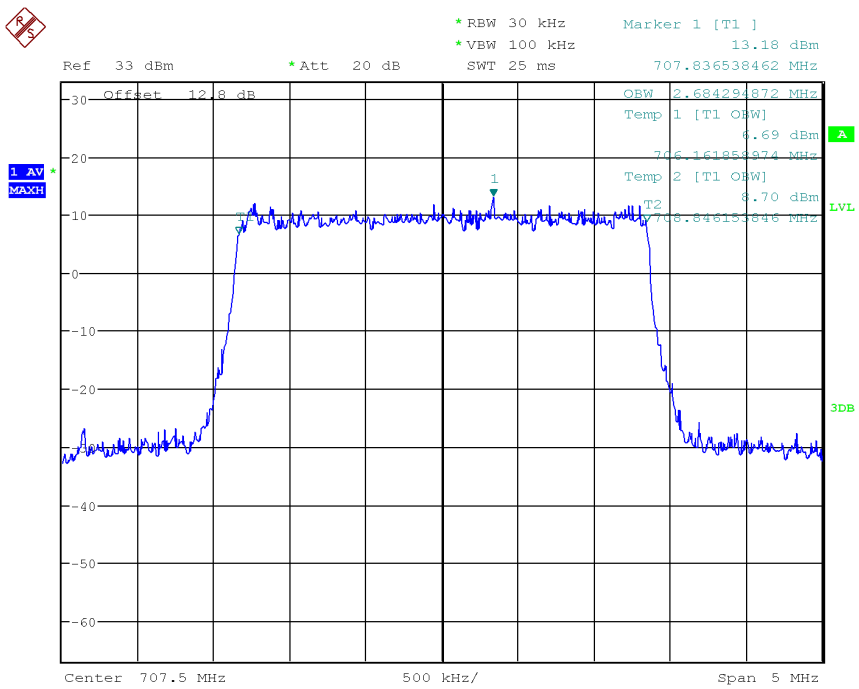
LTE Band12 16QAM 99% Channel 20095 BW=1.4MHz RB=6 RB Offset=0



Date: 28.APR.2019 20:00:09

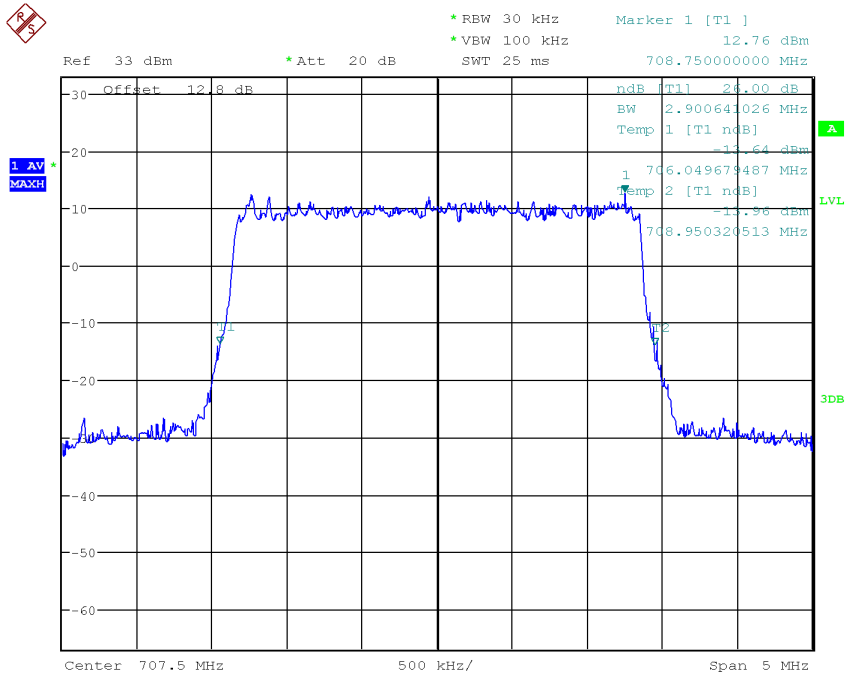
LTE Band12 16QAM -26dBc Channel 20095 BW=1.4MHz RB=6 RB Offset=0

Report No.:B19W50128-WWAN



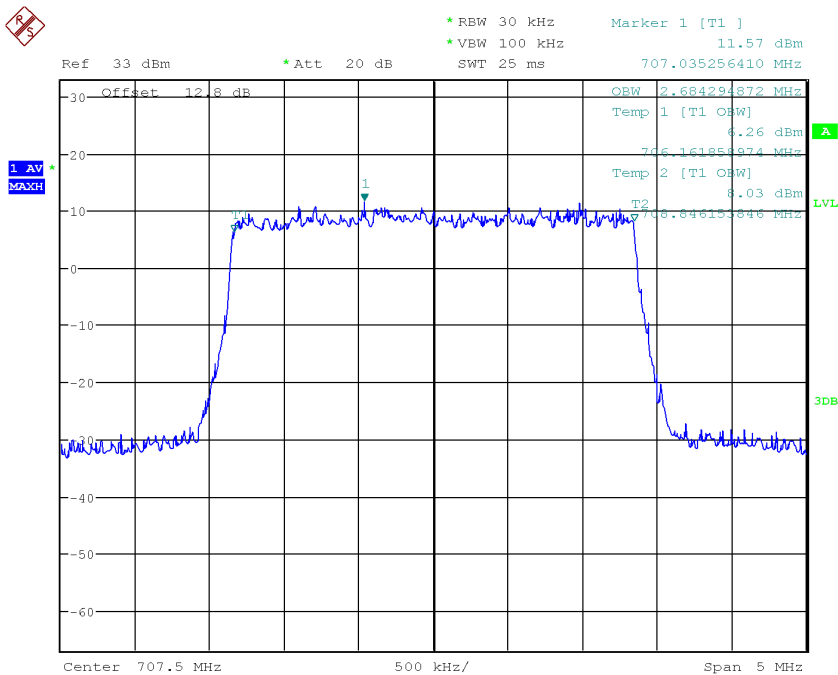
Date: 28.APR.2019 20:02:02

LTE Band12 QPSK 99% Channel 20095 BW=3MHz RB=15 RB Offset=0



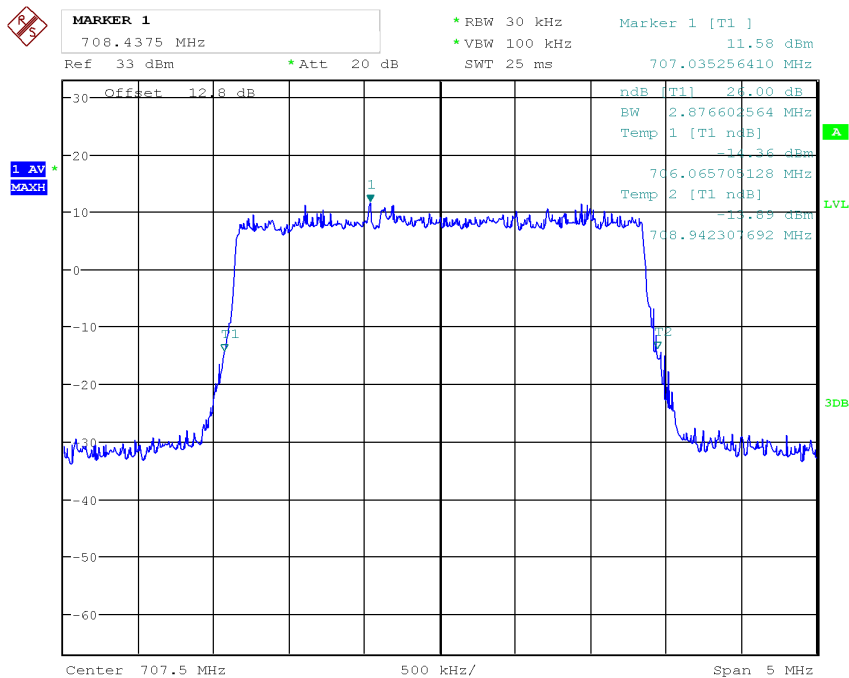
Date: 28.APR.2019 20:01:47

LTE Band12 QPSK -26dBc Channel 20095 BW=3MHz RB=15 RB Offset=0



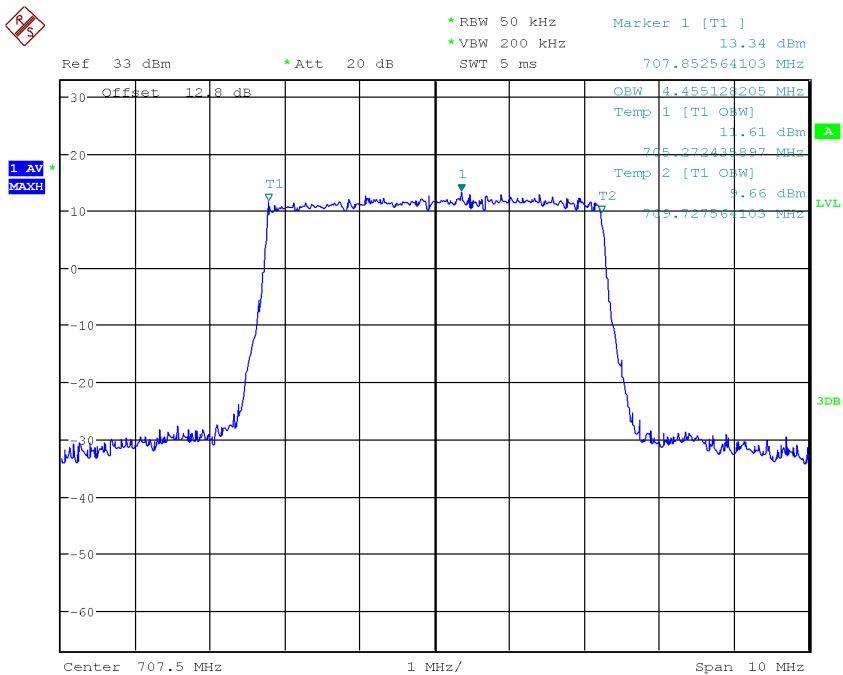
Date: 28.APR.2019 20:02:36

LTE Band12 16QAM 99% Channel 20095 BW=3MHz RB=15 RB Offset=0



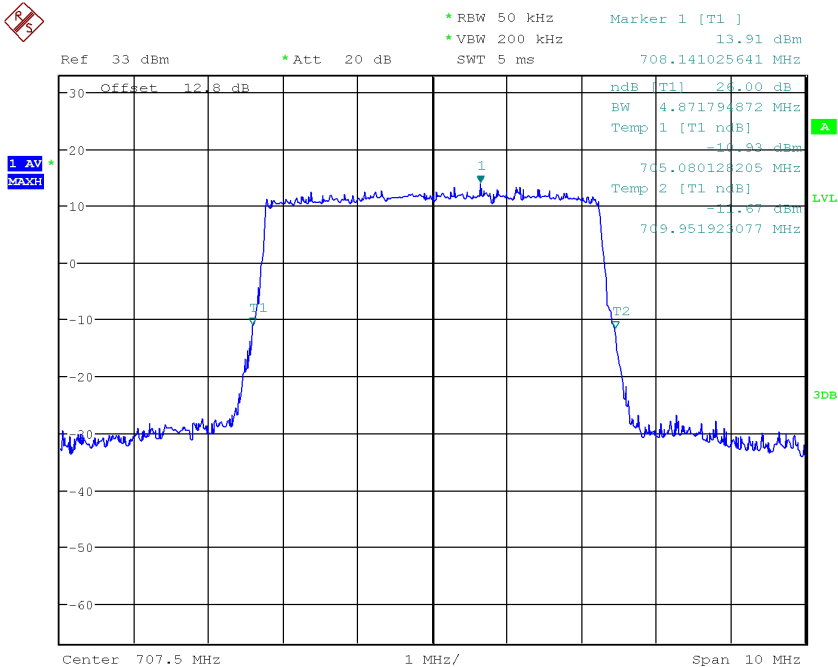
Date: 28.APR.2019 20:02:53

LTE Band12 16QAM -26dBc Channel 20095 BW=3MHz RB=15 RB Offset=0



Date: 28.APR.2019 20:03:49

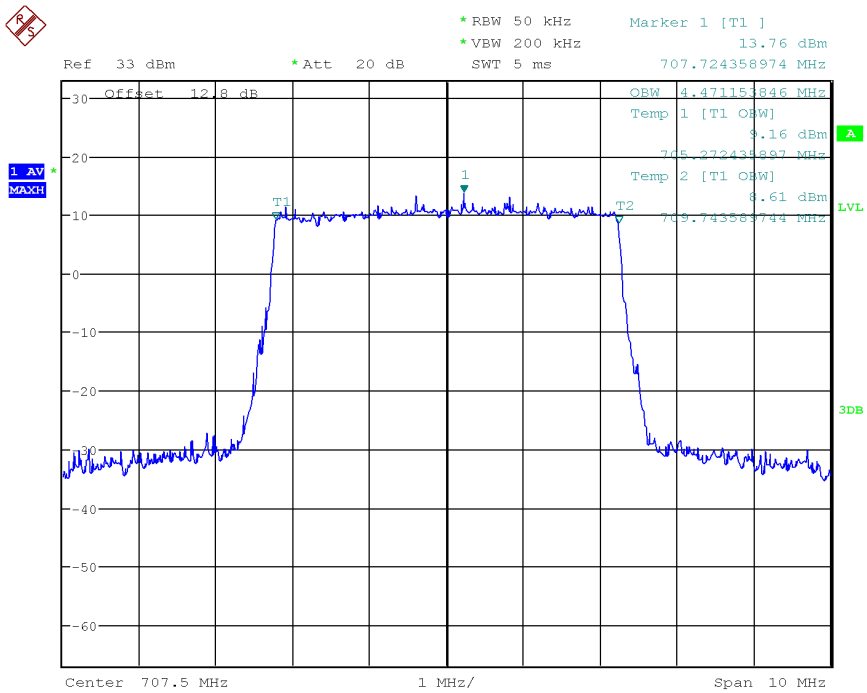
LTE Band12 QPSK 99% Channel 20095 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 20:03:33

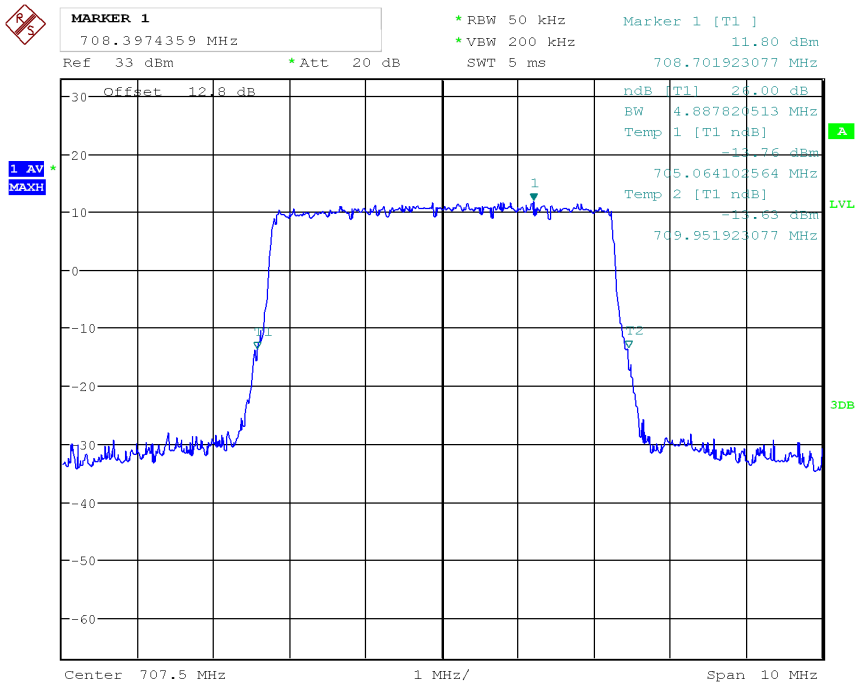
LTE Band12 QPSK -26dBc Channel 20095 BW=5MHz RB=25 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:04:11

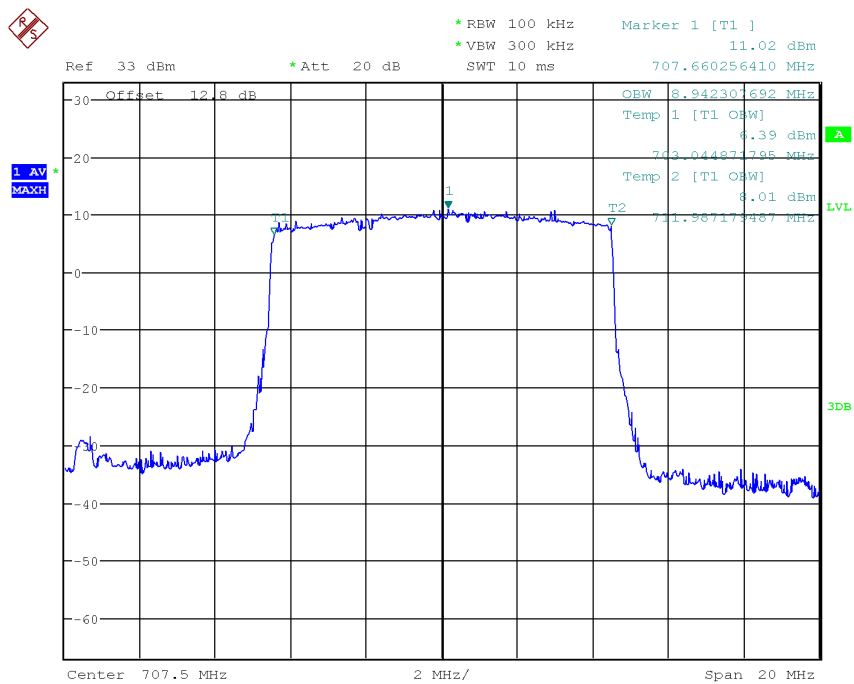
LTE Band12 16QAM 99% Channel 20095 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 20:04:26

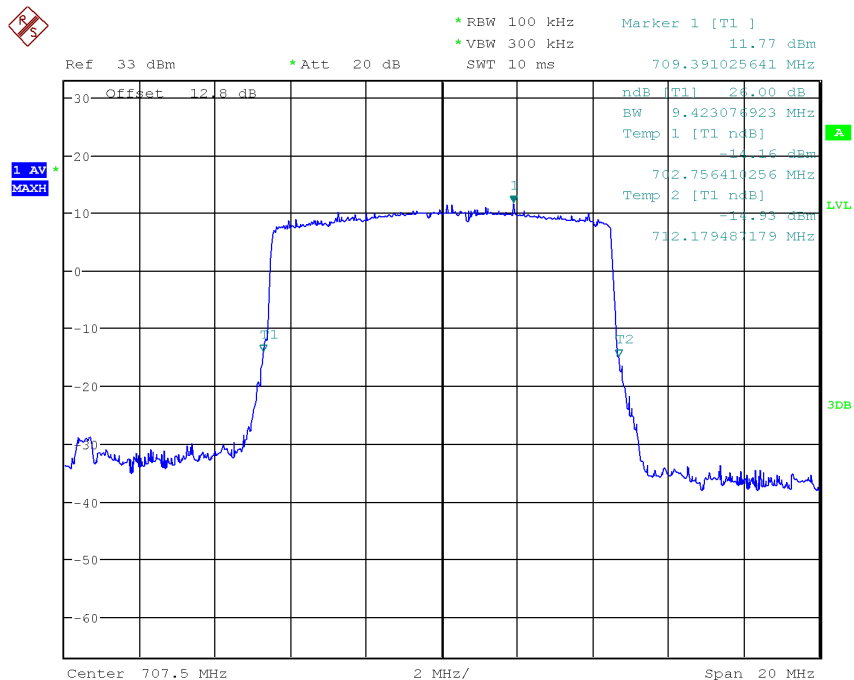
LTE Band12 16QAM -26dBc Channel 20095 BW=5MHz RB=25RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:05:21

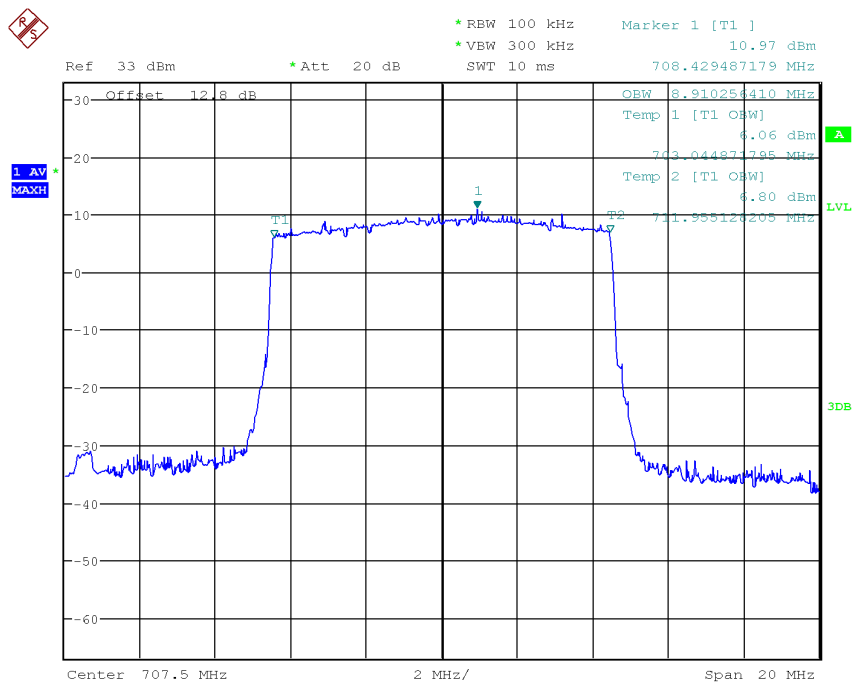
LTE Band12 QPSK 99% Channel 20095 BW=10MHz RB=50RB Offset=0



Date: 28.APR.2019 20:05:06

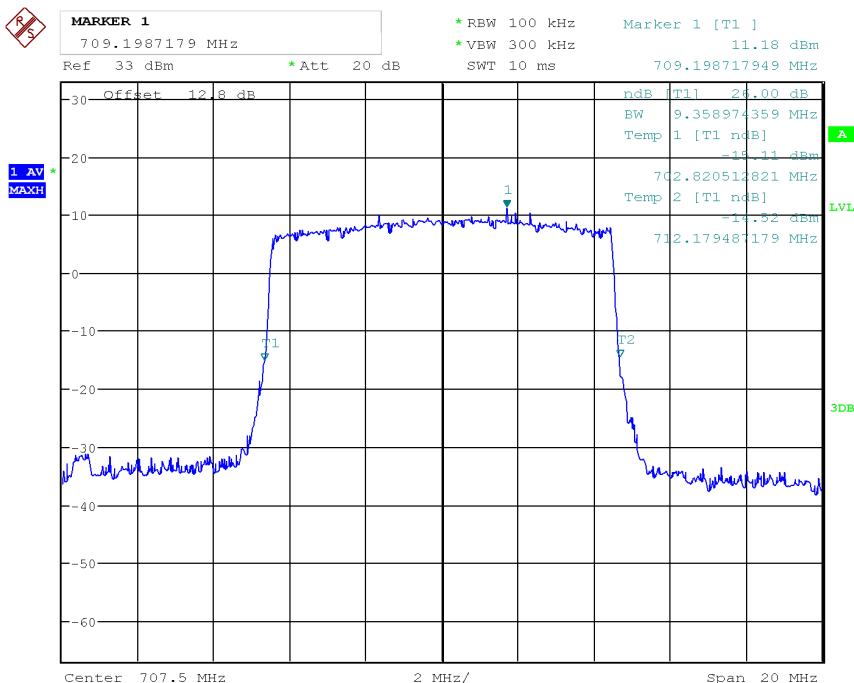
LTE Band12QPSK -26dBc Channel 20095 BW=10MHz RB=50RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:05:47

LTE Band12 16QAM 99% Channel 20095 BW=10MHz RB=50RB Offset=0

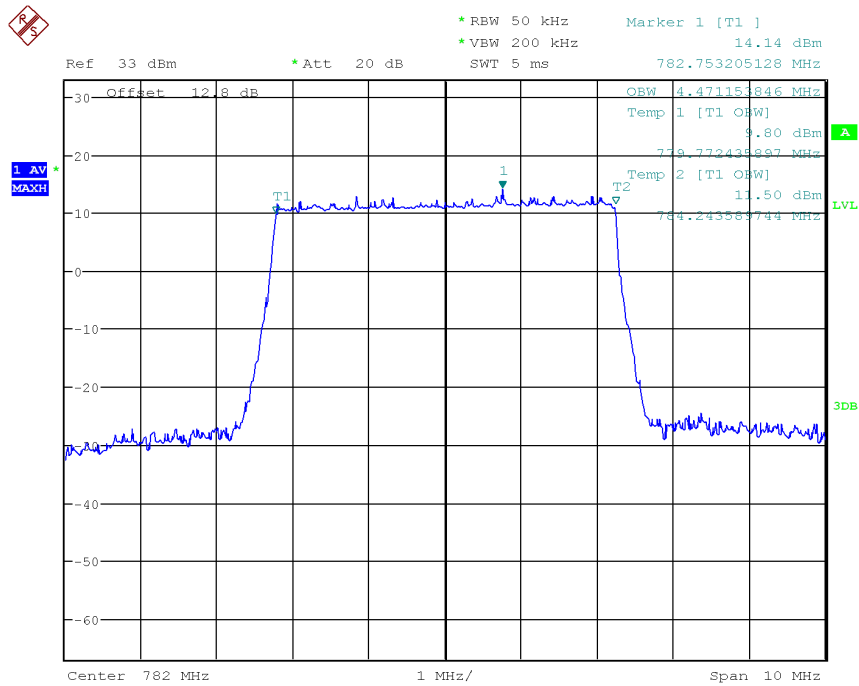


Date: 28.APR.2019 20:06:03

LTE Band12 16QAM -26dBc Channel 20095 BW=10MHz RB=50RB Offset=0

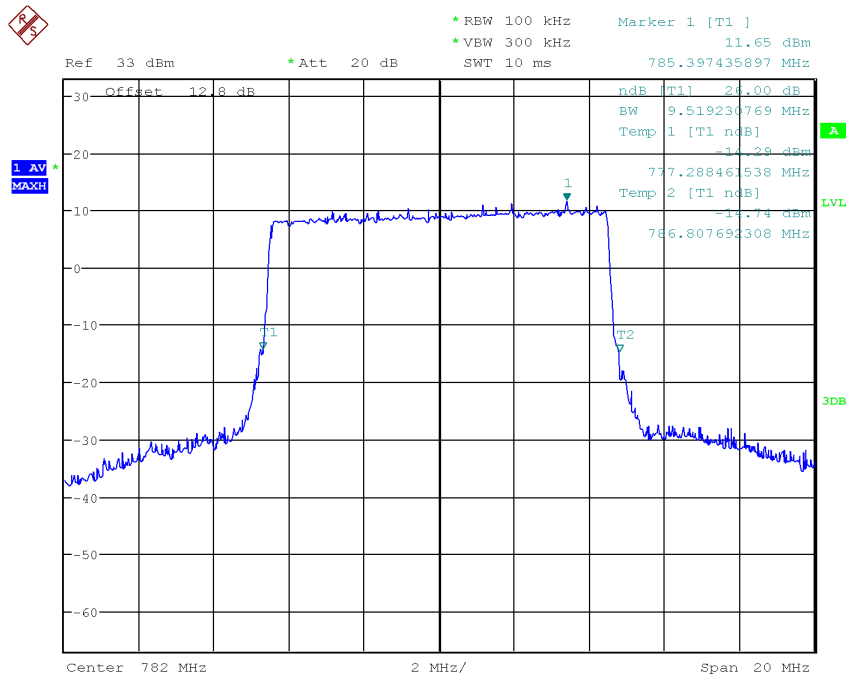
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Graphical results for LTE B13:



Date: 28.APR.2019 20:14:33

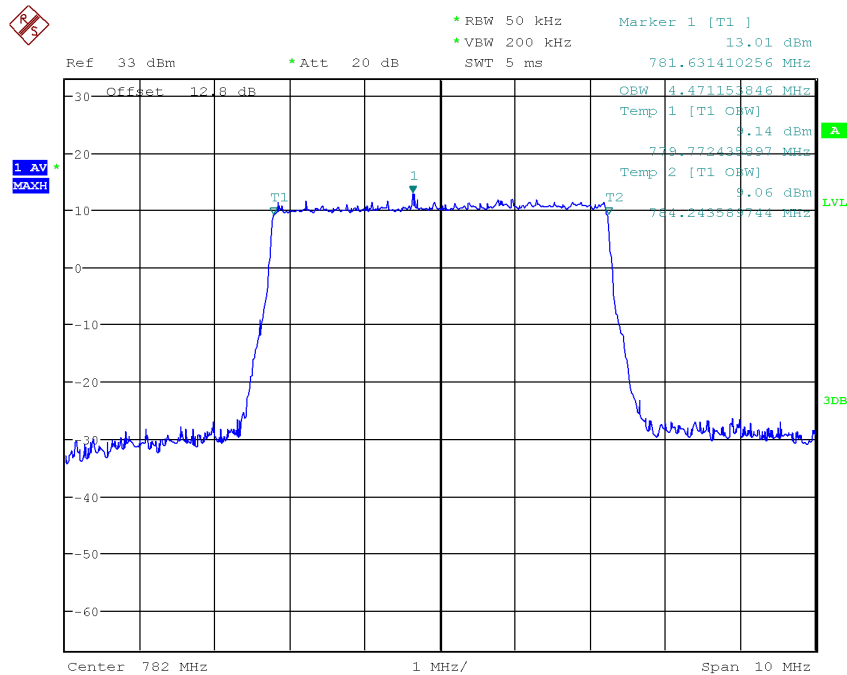
LTE Band13QPSK 99% Channel 20230 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 20:11:03

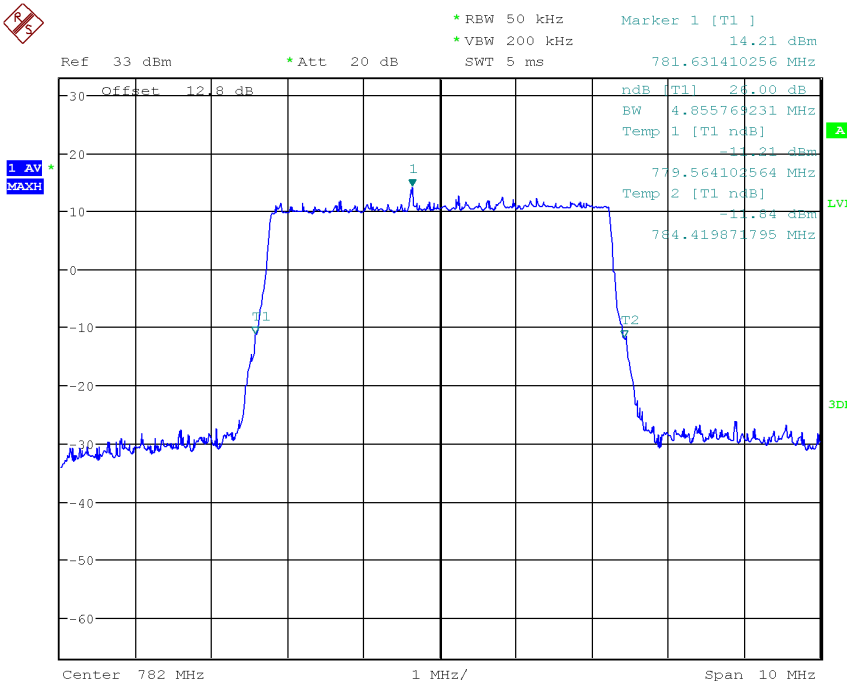
Report No.:B19W50128-WWAN

LTE Band13 QPSK -26dBc Channel 20230 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 20:09:14

LTE Band13 16QAM 99% Channel 20230 BW=5MHz RB=25 RB Offset=0

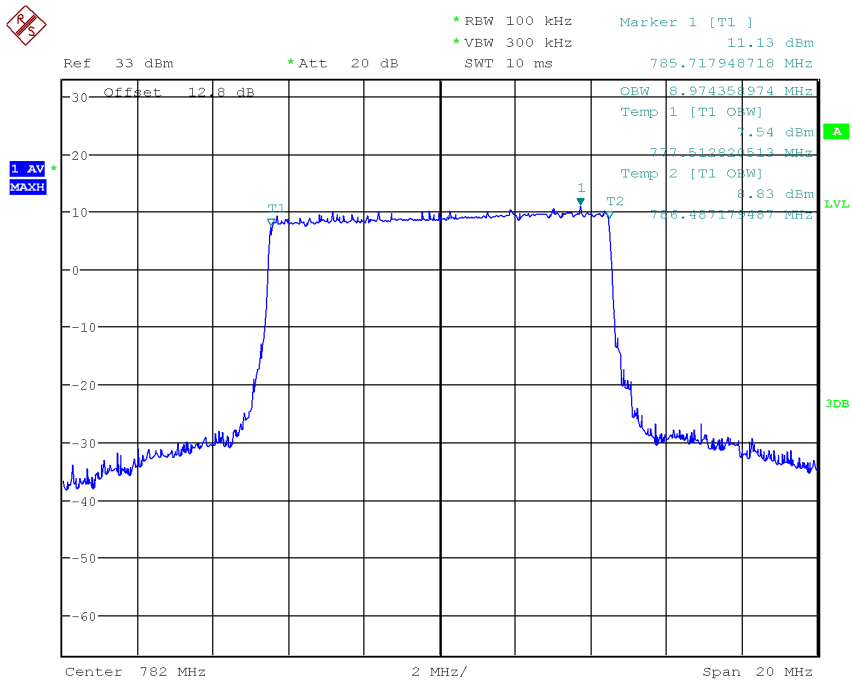


Date: 28.APR.2019 20:08:46

LTE Band13 16QAM -26dBc Channel 20230 BW=5MHz RB=25 RB Offset=0

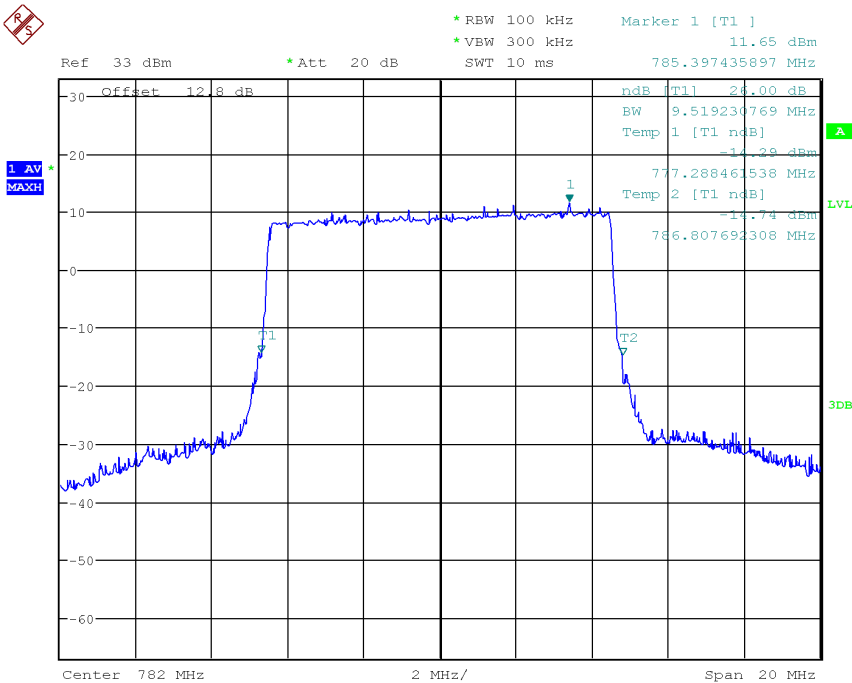
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:11:29

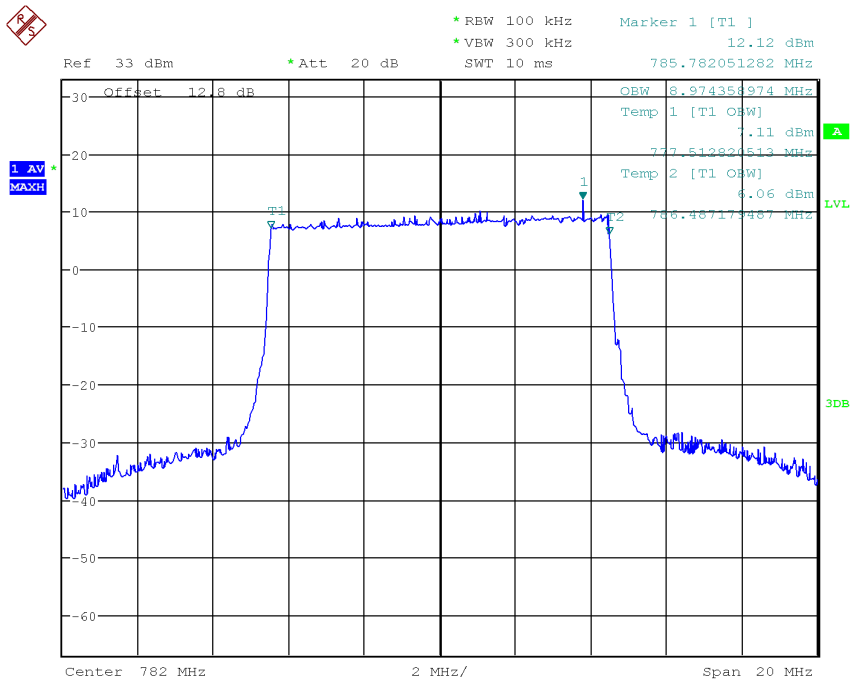
LTE Band13 QPSK 99% Channel 20230 BW=10MHz RB=50 RB Offset=0



Date: 28.APR.2019 20:11:03

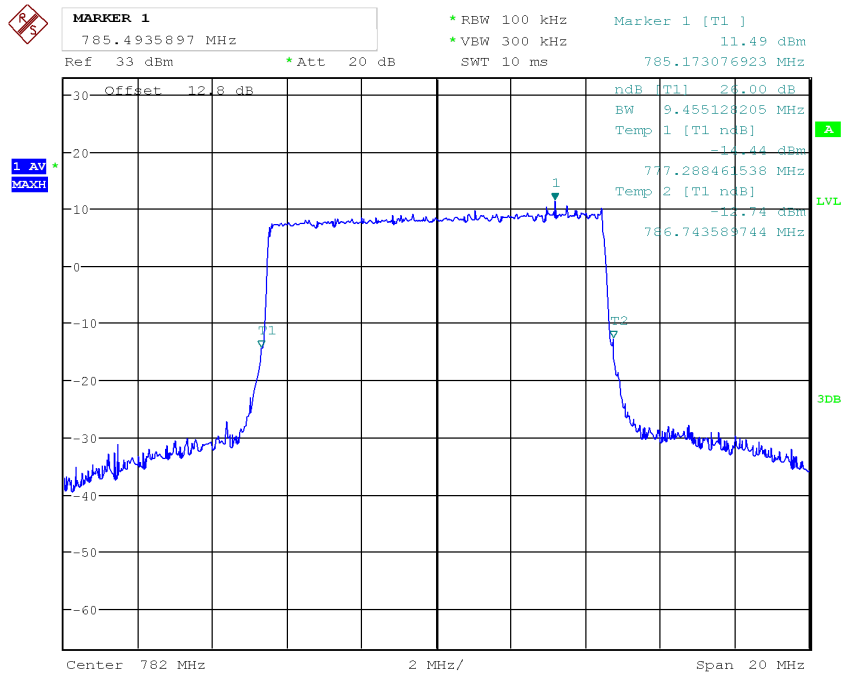
LTE Band13QPSK -26dBc Channel 20230 BW=10MHz RB=50 RB Offset=0

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:10:06

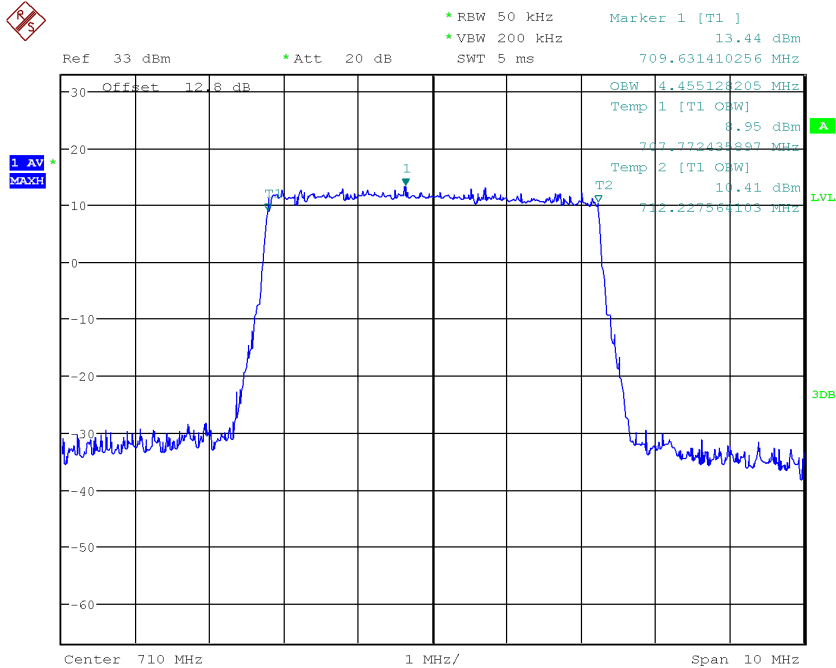
LTE Band13 16QAM 99% Channel 20230 BW=10MHz RB=50 RB Offset=0



Date: 28.APR.2019 20:10:26

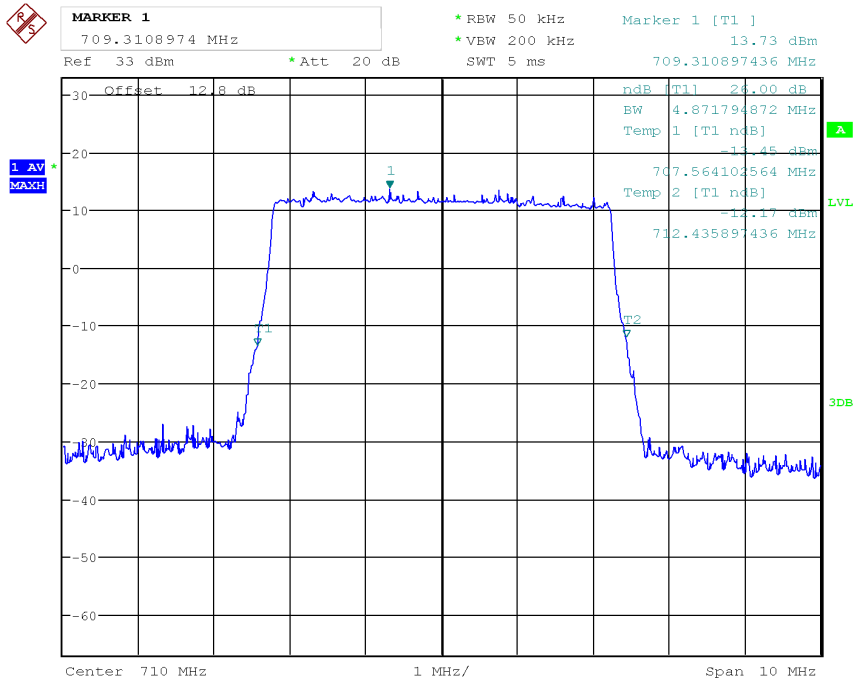
LTE Band13 16QAM -26dBc Channel 20230 BW=10MHz RB=50 RB Offset=0

Graphical results for LTE B17:



Date: 28.APR.2019 20:24:57

LTE Band17 QPSK 99% Channel 20790 BW=5MHz RB=25 RB Offset=0

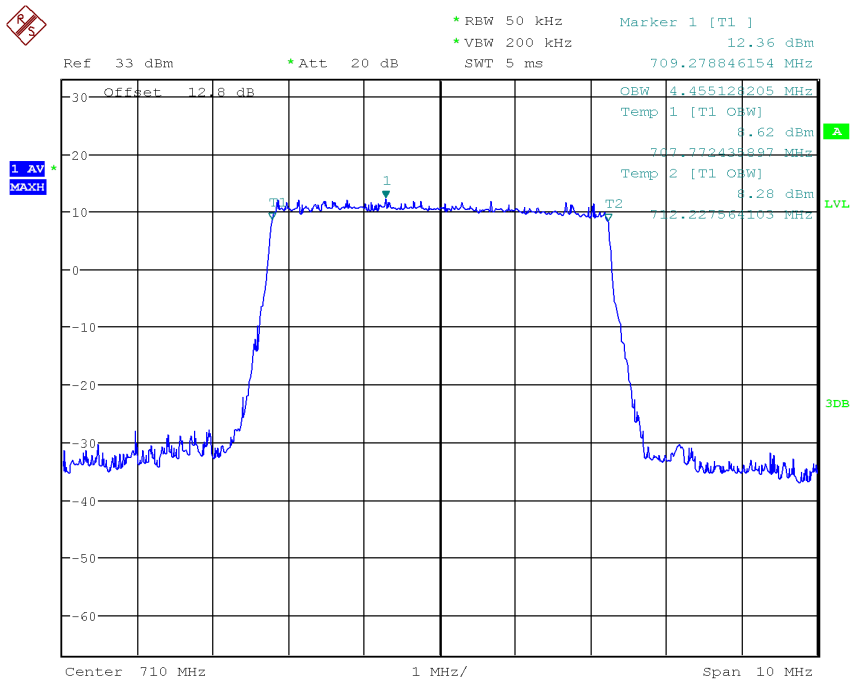


Date: 28.APR.2019 20:24:41

LTE Band17 QPSK -26dBc Channel 20790 BW=5MHz RB=25 RB Offset=0

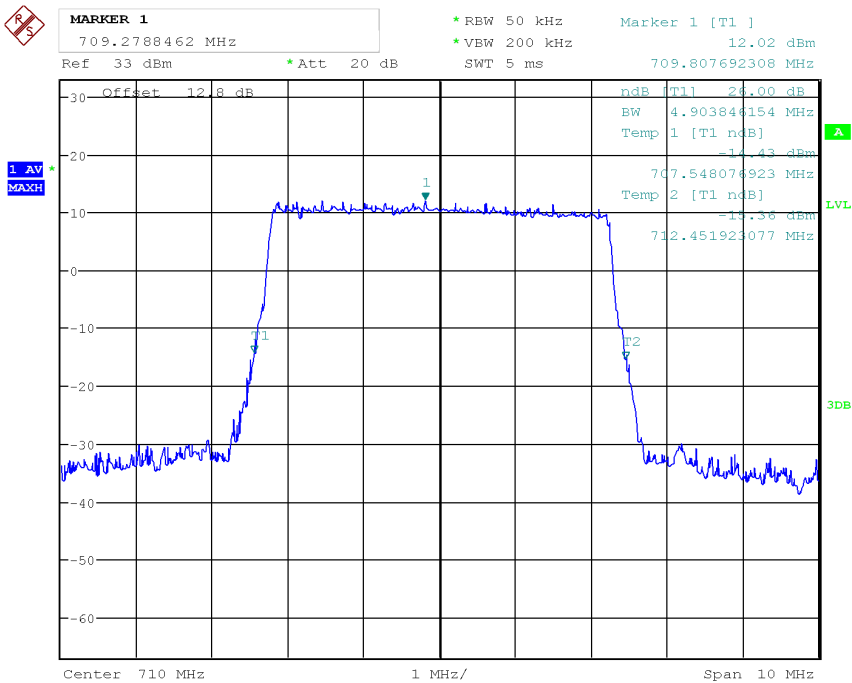
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Report No.:B19W50128-WWAN



Date: 28.APR.2019 20:25:29

LTE Band17 16QAM 99% Channel 20790 BW=5MHz RB=25 RB Offset=0



Date: 28.APR.2019 20:25:45

LTE Band17 16QAM -26dBc Channel 20790 BW=5MHz RB=25 RB Offset=0