



TEST REPORT

REPORT NUMBER: I21W00032-WWAN_Rev2

ON

Type of Equipment: Wireless Module
Type of Designation: A7672SA/A7672SA miniPCIE
Brand Name: SIMCom
Manufacturer: SIMCom Wireless Solutions Limited
FCC ID: 2AJYU-8BAE001

ACCORDING TO

FCC CFR Part 2, FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;
GENERAL
PART 22, PUBLIC MOBILE SERVICES, e-CFR, 2019
PART 24, PERSONAL COMMUNICATIONS SERVICES, e-CFR, 2019
PART 27, MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR, 2019
ANSI C63.26-2015

Chongqing Academy of Information and Communications Technology

Month date, year

Dec, 04, 2021

Signature



Xiang Luoyong

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.

Revision Version

Report Number	Revision	Date	Memo
I21W00032-WWAN	00	2021-10-18	Initial creation of test report
I21W00032-WWAN_Rev1	01	2021-11-12	First modification test report
I21W00032-WWAN_Rev2	02	2021-12-04	Second modification test report

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

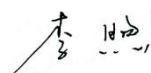
1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2021-08-30
Testing End Date:	2021-12-04

1.4. Signature



2021-12-04

LiXu
(Prepared this test report)

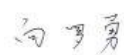
Date



2021-12-04

ChenWen
(Reviewed this test report)

Date



2021-12-04

XiangLuoYong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	SIMCom Wireless Solutions Limited
Address /Post:	Building 3, No. 289, Linhong Road, Changning District, Shanghai, P.R.China
City:	Shanghai
Country:	China
Telephone:	15902149520
Fax:	--
Email:	yue.hai@simcom.com
Contact Person:	Haiyue

2.2. Manufacturer Information(if different from applicant in section 2.1)

Company Name:	--
Address /Post:	--
City:	--
Country:	--
Telephone:	--
Fax:	--
Email:	--
Contact Person:	--

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Wireless Module
Model name	A7672SA/A7672SA miniPCIE
Brand name	SIMCom
GSM Frequency Band	850/1900
LTE Frequency Band	2/4/5/66
Type of modulation	GMSK/8PSK/QPSK/16QAM
Power Class	3
Extreme Temperature	-40/+85°C
Nominal Voltage	3.8
Extreme High Voltage	4.2
Extreme Low Voltage	3.4

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S1	860710050007536	V1.01	A011B01A7672M7_GPS	2021-08-26
S2	860710050012304	V1.01	A011B01A7672M7_GPS	2021-08-26

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
GSM	GSM850	824 – 849	869 – 894	--
	PCS1900	1850 – 1910	1930 – 1990	--
LTE	B2	1850 – 1910	1930 – 1990	--

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	B4	1710 – 1755	2110 – 2155	--
	B5	824 – 849	869 – 894	--
	B66	1710-1780	2110-2200	--
BLUETOOTH	BLE	2402-2480		--

3.4. Internal Identification of AE used during the test

AE ID*	Description	dB*
AE1	RF cable	--

*AE ID: is used to identify the test sample in the lab internally.

dB*: is provided customer.

4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS, e-CFR	2019
PART 22	PUBLIC MOBILE SERVICES	2019
PART 24, 2019	PERSONAL COMMUNICATIONS SERVICES, e-CFR	2019
PART 27, 2019	MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES, e-CFR	2019
ANSI C63.26-2015	--	2015

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2022-06-11
2	DC Power Supply	N6705B	MY50000919	--	--	Agilent	2022-06-11
3	Universal Radio Communication Tester	CMW500	152395	--	--	R&S	2022-06-11
4	Universal Radio Communication Tester	CMU200	122992	--	--	R&S	2022-06-11

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	EMI Test Receiver	ESU26	100367	--	5.1-24-3	R&S	2022-06-11
2	Trilog super broadBand test antenna	VULB 9163	01392	--	--	R&S	2023-03-04
3	Double-Ridged Horn Antenna	HF907	100357	--	--	R&S	2023-02-10
4	Trilog super broadBand test antenna	VULB 9163	00995	--	--	R&S	2023-04-03
5	Double-Ridged Horn Antenna	HF907	100356	--	--	R&S	2022-08-20

5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2022-06-11
2	Fully-Anechoic Chamber	11.8m×6.5m×6.3m	--	ETS	2024-01-22

Anechoic chamber

Fully anechoic chamber by ETS-LINDGREN.

5.4. Test software

No.	Name	version	SN	Manufacture
1	EMC32	V8.51.0	--	R&S

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6. Test Results

6.1. 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
24.232(b),27.50(d),27.50(h)(2),27.50(c)	ERP and EIRP	Pass
2.1049,22.917(b),24.238(b)	Occupied Bandwidth	*Note 1
2.1051,2.1053,24.238,22.917,27.53	Conducted spurious emissions	Pass
2.1051,2.1053,24.238,22.917,27.53	Radiated Spurious Emission	Pass
2.1051,2.1053,24.238,22.917,27.53	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
Note 1: No applicable performance criteria. Note 2: The module Under 16QAM modulation mode, the maximum number of RB is 27 Note 3: A7672SA miniPCIE products are processed to the customer's ordinary PCIE board through the module patch of A7672SA. Since the performances of the two products are exactly the same, only one type of sample has been measured by RF. ERP /EIRP and RSE EMC tested the data of two models respectively, and both passed. Only one set of data is placed in this report.		

6.2. Conducted RF Power Output

Specifications:	FCC Part 2.1046, 22.913(a), 24.232(c), 27.50
DUT Serial Number:	860710050007536
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.

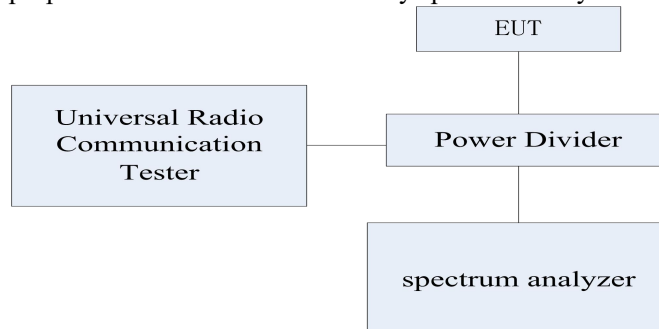
According to Part 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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 Maximum hold mode.
- 4) The resolution Bandwidth of the spectrum analyzer was comparable to the emission Bandwidth.

Note: --

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6.1.1 GSM850 Conducted RF Power Output Results

GPRS GMSK Mode:

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	32.4	32.2	30.5	28.4
190 (836.6MHz)	32.7	32.4	30.8	28.6
251 (848.8MHz)	32.9	32.7	31.1	28.9

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	32.2	32.1	30.3	28.3
190 (836.6MHz)	32.5	32.3	30.5	28.4
251 (848.8MHz)	32.7	32.5	31.0	28.7

EGPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	34.1	32.9	32.7	32.5
190 (836.6MHz)	33.8	32.9	32.6	32.4
251 (848.8MHz)	33.3	32.4	32.2	31.9

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	34.0	32.8	32.5	32.4
190 (836.6MHz)	33.7	32.7	32.5	32.2
251 (848.8MHz)	33.2	32.3	32.1	31.8

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EGPRS 8PSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	30.4	29.4	29.3	29.2
190 (836.6MHz)	30.3	29.2	29.1	29.0
251 (848.8MHz)	30.0	29.0	28.8	28.7

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
128 (824.2MHz)	30.2	29.2	29.2	29.0
190 (836.6MHz)	30.2	29.1	29.0	28.9
251 (848.8MHz)	29.9	28.9	28.6	28.6

6.1.2 PCS1900 Conducted RF Power Output Results

GPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	30.1	30.0	28.4	26.8
661 (1880.0MHz)	30.0	29.8	28.1	26.6
810 (1909.8MHz)	30.0	29.9	28.4	26.4

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	30.0	29.9	28.2	26.6
661 (1880.0MHz)	29.8	29.7	28.0	26.5
810 (1909.8MHz)	29.8	29.8	28.2	26.3

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EGPRS GMSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	30.9	30.3	30.2	30.0
661 (1880.0MHz)	31.1	30.5	30.4	30.3
810 (1909.8MHz)	30.7	29.8	29.7	29.9

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	30.7	30.1	30.1	29.8
661 (1880.0MHz)	31.0	30.4	30.3	30.1
810 (1909.8MHz)	30.6	29.7	29.5	29.8

EGPRS 8PSK Mode

Channel No.	Maximum output power(pk) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.5	28.5	28.5	28.3
661 (1880.0MHz)	29.7	28.8	28.8	28.6
810 (1909.8MHz)	29.4	28.4	28.4	28.3

Channel No.	Maximum output power(avg) [dBm]			
	1TS	2TS	3TS	4TS
512 (1850.2MHz)	29.4	28.4	28.3	28.1
661 (1880.0MHz)	29.5	28.6	28.5	28.3
810 (1909.8MHz)	29.3	28.2	28.2	28.2

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6.1.3 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	22.71	27.80	5.09
		1	2		22.66	27.91	5.25
		1	5		22.79	27.93	5.14
		6	0		21.43	27.22	5.79
		1	0	16QAM	21.62	26.64	5.02
		1	2		21.59	26.48	4.89
		1	5		21.62	26.59	4.97
		6	0		20.55	27.59	7.04
18900	1880	1	0	QPSK	22.49	27.76	5.27
		1	2		22.38	27.71	5.33
		1	5		22.43	27.71	5.28
		6	0		21.42	27.85	6.43
		1	0	16QAM	21.66	27.22	5.56
		1	2		21.57	27.11	5.54
		1	5		21.64	27.12	5.48
		6	0		20.42	27.79	7.37
19193	1909.3	1	0	QPSK	22.10	26.72	4.62
		1	2		21.97	26.55	4.58
		1	5		21.70	26.56	4.86
		6	0		21.02	26.76	5.74
		1	0	16QAM	21.33	26.09	4.76
		1	2		21.17	25.96	4.79
		1	5		21.03	25.96	4.93
		6	0		20.05	26.67	6.62

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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	22.89	27.83	4.94
		1	8		22.84	27.86	5.02
		1	15		22.85	27.96	5.11
		15	0		21.35	27.79	6.43
		1	0	16QAM	22.03	27.66	5.63
		1	8		21.87	27.56	5.69
		1	15		21.98	27.68	5.70
		15	0		20.42	28.52	8.10
18900	1880	1	0	QPSK	22.71	27.83	5.12
		1	8		22.48	27.58	5.10
		1	15		22.73	27.92	5.19
		15	0		21.43	27.49	6.06
		1	0	16QAM	21.70	27.70	6.00
		1	8		21.66	27.65	5.99
		1	15		21.73	27.80	6.07
		15	0		20.43	28.08	7.65
19185	1908.5	1	0	QPSK	22.82	27.52	4.70
		1	8		22.30	27.12	4.82
		1	15		21.62	26.99	5.37
		15	0		21.19	27.14	5.95
		1	0	16QAM	21.92	26.85	4.93
		1	8		21.33	26.43	5.10
		1	15		20.66	26.20	5.54
		15	0		20.34	26.92	6.58

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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	22.99	27.95	4.96
		1	13		22.82	27.89	5.07
		1	24		22.79	27.95	5.16
		25	0		21.37	28.02	6.65
		1	0	16QAM	22.03	27.63	5.60
		1	13		21.90	27.61	5.71
		1	24		21.96	27.73	5.77
		25	0		20.43	28.40	7.97
18900	1880	1	0	QPSK	22.71	27.79	5.08
		1	13		22.49	27.59	5.10
		1	24		22.70	27.85	5.15
		25	0		21.41	27.31	5.90
		1	0	16QAM	21.77	27.73	5.96
		1	13		21.64	27.64	6.00
		1	24		21.71	27.77	6.06
		25	0		20.51	28.07	7.56
19175	1907.5	1	0	QPSK	22.96	27.62	4.66
		1	13		22.57	27.25	4.68
		1	24		22.01	27.07	5.06
		25	0		21.43	27.29	5.86
		1	0	16QAM	21.94	26.90	4.96
		1	13		21.65	26.61	4.96
		1	24		21.11	26.40	5.29
		25	0		20.56	27.50	6.94

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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	22.89	27.97	5.08
		1	25		22.74	28.04	5.30
		1	49		22.89	28.16	5.27
		50	0		21.27	27.63	6.36
		1	0	16QAM	21.97	26.81	4.84
		1	25		21.69	26.61	4.92
		1	49		21.85	26.86	5.01
		27	0		20.23	27.36	7.13
18900	1880	1	0	QPSK	22.77	27.73	4.96
		1	25		22.43	27.56	5.13
		1	49		22.66	27.85	5.19
		50	0		21.19	27.28	6.09
		1	0	16QAM	21.77	26.56	4.79
		1	25		21.60	26.33	4.73
		1	49		21.61	26.55	4.94
		27	0		20.98	26.25	5.27
19150	1905	1	0	QPSK	22.57	27.57	5.00
		1	25		22.85	27.17	4.32
		1	49		22.12	26.74	4.62
		50	0		21.47	27.25	5.78
		1	0	16QAM	21.72	26.79	5.07
		1	25		22.03	26.56	4.53
		1	49		21.43	26.21	4.78
		27	0		21.12	26.31	5.19

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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		21.66	26.69	5.03
		1	38		22.84	27.97	5.13
		1	74		22.85	28.06	5.21
		75	0		21.31	28.20	6.89
		1	0	16QAMQPSK	21.85	26.73	4.88
		1	38		21.65	26.76	5.11
		1	74		21.73	26.72	4.99
		27	0		20.67	26.65	5.98
18900	1880	1	0	QPSK	22.70	27.37	4.67
		1	38		22.53	27.25	4.72
		1	74		22.54	27.49	4.95
		75	0		21.28	27.86	6.58
		1	0	16QAM	22.26	27.03	4.77
		1	38		22.17	26.93	4.76
		1	74		22.0	27.04	5.04
		27	0		21.45	26.89	5.44
19125	1902.5	1	0	QPSK	22.13	27.44	5.31
		1	38		22.75	27.21	4.46
		1	74		22.14	26.61	4.47
		75	0		21.41	28.02	6.61
		1	0	16QAM	21.78	28.28	6.50
		1	38		22.36	27.86	5.50
		1	74		21.78	27.03	5.25
		27	0		21.42	26.72	5.30

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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	22.97	27.71	4.74
		1	50		22.89	27.89	5.00
		1	99		22.88	27.68	4.80
		100	0		21.46	27.93	6.47
		1	0	16QAM	21.99	28.11	6.12
		1	50		21.94	28.37	6.43
		1	99		21.78	28.01	6.23
		27	0		21.34	27.97	6.63
18900	1880	1	0	QPSK	22.69	27.72	5.03
		1	50		22.61	27.59	4.98
		1	99		22.52	27.94	5.42
		100	0		21.10	27.34	6.24
		1	0	16QAM	21.83	27.44	5.61
		1	50		21.94	27.36	5.42
		1	99		21.57	27.56	5.99
		27	0		21.48	26.68	5.20
19100	1900	1	0	QPSK	22.38	27.61	5.23
		1	50		22.62	27.56	4.94
		1	99		22.35	26.74	4.39
		100	0		21.22	27.50	6.28
		1	0	16QAM	21.51	27.73	6.22
		1	50		21.73	28.03	6.30
		1	99		21.56	27.60	6.04
		27	0		20.77	26.89	6.12

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6.1.4 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	22.88	27.95	5.07
		1	2		22.86	27.95	5.09
		1	5		22.96	28.05	5.09
		6	0		21.72	28.06	6.34
		1	0	16QAM	21.93	27.61	5.68
		1	2		21.99	27.58	5.59
		1	5		22.08	27.66	5.58
		6	0		20.91	28.38	7.47
20175	1732.5	1	0	QPSK	22.26	27.86	5.60
		1	2		22.16	27.85	5.69
		1	5		22.21	27.89	5.68
		6	0		21.02	27.30	6.28
		1	0	16QAM	21.36	26.78	5.42
		1	2		21.35	26.68	5.33
		1	5		21.38	26.84	5.46
		6	0		20.35	27.69	7.34
20393	1754.3	1	0	QPSK	22.96	27.92	4.96
		1	2		22.95	27.85	4.90
		1	5		22.87	27.86	4.99
		6	0		22.04	28.05	6.01
		1	0	16QAM	22.32	27.45	5.13
		1	2		22.37	27.41	5.04
		1	5		22.33	27.46	5.13
		6	0		21.20	28.16	6.96

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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	22.74	27.71	4.97
		1	8		22.89	27.76	4.87
		1	15		22.84	27.77	4.93
		15	0		21.76	28.53	6.77
		1	0	16QAM	22.02	27.18	5.16
		1	8		22.23	27.26	5.03
		1	15		22.17	27.36	5.19
		15	0		21.01	28.02	7.01
20175	1732.5	1	0	QPSK	22.78	27.45	4.67
		1	8		22.88	27.52	4.64
		1	15		22.94	27.63	4.69
		15	0		21.73	28.18	6.45
		1	0	16QAM	22.30	27.77	5.47
		1	8		22.57	27.96	5.39
		1	15		22.54	28.07	5.53
		15	0		20.92	27.94	7.02
20385	1753.5	1	0	QPSK	23.13	28.13	5.00
		1	8		23.07	27.97	4.90
		1	15		22.90	27.98	5.08
		15	0		22.08	28.24	6.16
		1	0	16QAM	22.25	27.29	5.04
		1	8		22.30	27.35	5.05
		1	15		22.05	27.13	5.08
		15	0		21.18	28.14	6.96

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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	23.01	28.22	5.21
		1	13		22.98	28.28	5.30
		1	24		23.08	28.42	5.34
		25	0		21.80	28.19	6.39
		1	0	16QAM	21.95	27.51	5.56
		1	13		22.15	27.63	5.48
		1	24		22.21	27.78	5.57
		25	0		21.04	28.59	7.55
20175	1732.5	1	0	QPSK	22.40	27.92	5.52
		1	13		22.36	27.82	5.46
		1	24		22.39	27.89	5.50
		25	0		21.04	27.50	6.46
		1	0	16QAM	21.42	27.88	6.46
		1	13		21.32	27.84	6.52
		1	24		21.41	27.91	6.50
		25	0		20.21	28.45	8.24
20375	1752.5	1	0	QPSK	23.09	28.58	5.49
		1	13		23.18	28.51	5.33
		1	24		23.02	28.51	5.49
		25	0		22.15	28.44	6.29
		1	0	16QAM	22.31	27.88	5.57
		1	13		22.36	27.80	5.44
		1	24		22.21	27.75	5.54
		25	0		21.25	27.79	6.54

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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	23.16	27.91	4.75
		1	25		23.17	28.04	4.87
		1	49		22.76	27.94	5.18
		50	0		21.78	27.88	6.10
		1	0	16QAM	22.14	27.12	4.98
		1	25		22.36	27.24	4.88
		1	49		21.92	27.12	5.20
		27	0		21.78	26.64	4.86
20175	1732.5	1	0	QPSK	22.42	27.72	5.30
		1	25		22.24	27.62	5.38
		1	49		22.53	27.76	5.23
		50	0		20.94	27.32	6.38
		1	0	16QAM	21.67	27.18	5.51
		1	25		21.50	27.03	5.53
		1	49		21.80	27.23	5.43
		27	0		20.93	26.49	5.56
20350	1750	1	0	QPSK	22.97	27.89	4.92
		1	25		23.04	27.77	4.73
		1	49		22.95	27.76	4.81
		50	0		21.98	28.28	6.30
		1	0	16QAM	22.49	28.39	5.90
		1	25		22.85	28.40	5.55
		1	49		22.80	27.35	4.55
		27	0		21.32	26.72	5.40

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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	22.99	27.69	4.70
		1	38		22.89	27.71	4.82
		1	74		22.51	27.58	5.07
		75	0		21.53	28.17	6.64
		1	0	16QAM	22.58	27.41	4.83
		1	38		22.67	27.58	4.91
		1	74		22.20	27.39	5.19
		27	0		21.89	27.21	5.32
20175	1732.5	1	0	QPSK	22.37	27.56	5.19
		1	38		22.28	27.45	5.17
		1	74		22.73	27.71	4.98
		75	0		21.17	28.41	7.24
		1	0	16QAM	22.09	28.04	5.95
		1	38		22.01	28.10	6.09
		1	74		22.74	28.24	5.50
		27	0		21.87	27.72	5.85
20325	1747.5	1	0	QPSK	23.00	28.10	5.10
		1	38		23.05	28.07	5.02
		1	74		23.10	28.01	4.91
		75	0		21.96	28.62	6.66
		1	0	16QAM	22.01	27.20	5.19
		1	38		22.32	27.33	5.01
		1	74		22.34	27.25	4.91
		27	0		21.96	27.71	5.75

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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	23.16	27.89	4.73
		1	50		22.49	27.80	5.31
		1	99		22.39	27.79	5.40
		100	0		20.99	27.57	6.58
		1	0	16QAM	22.30	27.78	5.48
		1	50		21.98	27.76	5.78
		1	99		21.61	27.66	6.05
		27	0		21.14	27.21	6.07
20175	1732.5	1	0	QPSK	22.63	27.73	5.10
		1	50		22.49	27.70	5.21
		1	99		23.01	27.96	4.95
		100	0		21.21	28.18	6.97
		1	0	16QAM	21.85	28.02	6.17
		1	50		21.66	28.04	6.38
		1	99		22.25	28.30	6.05
		27	0		21.11	27.78	6.67
20300	1745	1	0	QPSK	22.45	27.82	5.37
		1	50		22.89	28.08	5.19
		1	99		23.01	28.00	4.99
		100	0		21.98	28.38	6.40
		1	0	16QAM	22.03	27.73	5.70
		1	50		22.41	27.96	5.55
		1	99		22.67	27.96	5.29
		27	0		21.34	27.56	6.22

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6.1.5 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	22.70	27.62	4.92
		1	2		22.76	27.66	4.90
		1	5		22.71	27.68	4.97
		6	0		21.76	27.65	5.89
		1	0	16QAM	22.03	27.09	5.06
		1	2		22.12	27.14	5.02
		1	5		22.12	27.16	5.04
		6	0		20.91	27.84	6.93
20525	836.5	1	0	QPSK	22.69	27.96	5.27
		1	2		22.57	27.92	5.35
		1	5		22.60	27.95	5.35
		6	0		21.65	28.06	6.41
		1	0	16QAM	21.85	27.47	5.62
		1	2		21.83	27.52	5.69
		1	5		21.84	27.49	5.65
		6	0		20.75	28.11	7.36
20643	848.3	1	0	QPSK	22.34	27.54	5.20
		1	2		22.31	27.45	5.14
		1	5		22.31	27.46	5.15
		6	0		21.30	27.11	5.81
		1	0	16QAM	21.47	26.46	4.99
		1	2		21.43	26.48	5.05
		1	5		21.42	26.40	4.98
		6	0		20.45	27.20	6.75

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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	22.89	27.07	4.18
		1	8		22.82	27.84	5.02
		1	15		22.82	27.83	5.01
		15	0		21.80	27.71	5.91
		1	0	16QAM	21.87	26.83	4.96
		1	8		21.98	26.87	4.89
		1	15		21.96	26.97	5.01
		15	0		21.96	28.38	6.42
20525	836.5	1	0	QPSK	22.54	27.60	5.06
		1	8		22.59	27.55	4.96
		1	15		22.52	27.57	5.05
		15	0		21.61	28.73	7.12
		1	0	16QAM	21.87	27.02	5.15
		1	8		21.92	27.04	5.12
		1	15		21.84	26.95	5.11
		15	0		20.82	27.78	6.96
20635	847.5	1	0	QPSK	22.28	27.21	4.93
		1	8		22.34	27.20	4.86
		1	15		22.18	27.11	4.93
		15	0		21.28	27.81	6.53
		1	0	16QAM	21.94	27.81	5.87
		1	8		22.02	27.81	5.79
		1	15		21.87	27.75	5.88
		15	0		20.44	27.39	6.95

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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	22.91	27.78	4.87
		1	13		22.93	27.83	4.90
		1	24		22.95	27.87	4.92
		25	0		21.80	28.33	6.53
		1	0	16QAM	22.21	27.72	5.51
		1	13		22.28	27.79	5.51
		1	24		22.31	27.85	5.54
		25	0		20.91	28.23	7.32
20525	836.5	1	0	QPSK	22.62	28.24	5.62
		1	13		22.64	28.15	5.51
		1	24		22.58	28.22	5.64
		25	0		21.56	27.86	6.30
		1	0	16QAM	21.80	27.34	5.54
		1	13		21.78	27.28	5.50
		1	24		21.74	27.35	5.61
		25	0		20.74	28.24	7.50
20625	846.5	1	0	QPSK	22.61	27.66	5.05
		1	13		22.48	27.47	4.99
		1	24		22.55	27.50	4.95
		25	0		21.30	28.04	6.74
		1	0	16QAM	21.84	27.49	5.65
		1	13		21.76	27.37	5.61
		1	24		21.71	27.34	5.63
		25	0		20.47	27.93	7.46

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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	22.98	27.67	4.69
		1	25		22.82	27.61	4.79
		1	49		22.64	27.51	4.87
		50	0		21.66	27.65	5.99
		1	0	16QAM	22.47	28.04	5.57
		1	25		22.53	28.22	5.69
		1	49		22.39	28.16	5.77
		27	0		21.32	27.78	6.46
20525	836.5	1	0	QPSK	22.85	27.88	5.03
		1	25		22.64	27.65	5.01
		1	49		22.70	27.83	5.13
		50	0		21.43	27.76	6.33
		1	0	16QAM	22.01	26.89	4.88
		1	25		21.83	26.76	4.93
		1	49		21.78	26.73	4.95
		27	0		21.56	26.21	4.65
20600	844	1	0	QPSK	22.65	27.63	4.98
		1	25		22.50	27.46	4.96
		1	49		22.55	27.47	4.92
		50	0		21.26	27.09	5.83
		1	0	16QAM	21.85	26.97	5.12
		1	25		21.79	26.84	5.05
		1	49		21.64	26.69	5.05
		27	0		21.12	26.09	4.97

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6.1.6 LTE B66 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
131979	1710.7	1	0	QPSK	23.02	28.02	5.00
		1	2		23.05	28.00	4.95
		1	5		23.22	28.10	4.88
		6	0		22.15	28.51	6.36
		1	0	16QAM	22.36	27.74	5.38
		1	2		22.40	27.71	5.31
		1	5		22.54	27.83	5.29
		6	0		21.30	28.54	7.24
132322	1745	1	0	QPSK	22.91	28.15	5.24
		1	2		22.92	28.21	5.29
		1	5		23.04	28.23	5.19
		6	0		22.03	27.96	5.93
		1	0	16QAM	22.09	27.29	5.20
		1	2		22.17	27.21	5.04
		1	5		22.23	27.34	5.11
		6	0		21.26	28.30	7.04
132665	1779.3	1	0	QPSK	23.26	27.90	4.64
		1	2		23.38	27.87	4.49
		1	5		23.38	27.88	4.50
		6	0		22.47	28.23	5.76
		1	0	16QAM	22.69	27.48	4.79
		1	2		22.71	27.48	4.77
		1	5		22.76	27.53	4.77
		6	0		21.69	28.70	7.01

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Test Data (3MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
131987	1711.5	1	0	QPSK	23.07	27.72	4.65
		1	8		23.16	27.70	4.54
		1	15		23.09	27.74	4.65
		15	0		22.13	28.08	5.95
		1	0	16QAM	22.74	27.98	5.24
		1	8		22.96	28.14	5.18
		1	15		22.92	28.21	5.29
		15	0		21.37	28.63	7.26
132322	1745	1	0	QPSK	22.95	28.11	5.16
		1	8		23.08	28.05	4.97
		1	15		22.94	28.15	5.21
		15	0		21.92	27.88	5.96
		1	0	16QAM	22.16	27.24	5.08
		1	8		22.19	27.34	5.15
		1	15		22.22	27.31	5.09
		15	0		21.21	28.20	6.99
132657	1778.5	1	0	QPSK	22.82	27.72	4.90
		1	8		23.25	27.81	4.56
		1	15		23.31	27.81	4.50
		15	0		22.30	28.78	6.48
		1	0	16QAM	22.33	27.31	4.98
		1	8		22.71	27.39	4.68
		1	15		22.78	27.51	4.73
		15	0		21.50	28.29	6.79

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Test Data (5MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
131997	1712.5	1	0	QPSK	23.25	27.75	4.50
		1	13		23.41	27.84	4.43
		1	24		23.37	27.92	4.55
		25	0		22.36	28.72	6.36
		1	0	16QAM	22.92	28.14	5.22
		1	13		23.15	28.25	5.10
		1	24		23.09	28.28	5.19
		25	0		21.54	28.75	7.21
132322	1745	1	0	QPSK	23.09	28.55	5.46
		1	13		22.99	28.49	5.50
		1	24		23.15	28.61	5.46
		25	0		21.97	28.37	6.40
		1	0	16QAM	22.23	27.84	5.61
		1	13		22.21	27.76	5.55
		1	24		22.35	27.90	5.55
		25	0		21.25	28.84	7.59
132647	1777.5	1	0	QPSK	22.86	27.87	5.01
		1	13		23.20	27.88	4.68
		1	24		23.56	27.98	4.42
		25	0		22.14	28.52	6.38
		1	0	16QAM	22.34	27.90	5.56
		1	13		22.67	27.91	5.24
		1	24		22.99	27.99	5.00
		25	0		21.37	28.17	6.80

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Test Data (10MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
132022	1715	1	0	QPSK	23.41	27.80	4.39
		1	25		23.44	27.87	4.43
		1	49		22.99	27.82	4.83
		50	0		22.22	28.36	6.14
		1	0	16QAM	23.00	28.11	5.11
		1	25		23.23	28.31	5.08
		1	49		22.70	28.24	5.54
		27	0		21.98	27.78	5.80
132322	1745	1	0	QPSK	23.45	28.22	4.77
		1	25		23.10	28.17	5.07
		1	49		23.31	28.23	4.92
		50	0		22.06	28.23	6.17
		1	0	16QAM	22.62	27.51	4.89
		1	25		22.39	27.30	4.91
		1	49		22.57	27.48	4.91
		27	0		21.91	26.99	5.08
132622	1775	1	0	QPSK	23.07	27.94	4.87
		1	25		22.88	27.75	4.87
		1	49		23.58	27.93	4.35
		50	0		21.82	28.00	6.18
		1	0	16QAM	22.24	27.47	5.23
		1	25		22.21	27.30	5.09
		1	49		22.91	27.58	4.67
		27	0		22.02	27.80	5.78

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Test Data (15MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
132047	1717.5	1	0	QPSK	22.90	27.64	4.74
		1	38		23.20	27.78	4.58
		1	74		22.69	27.67	4.98
		75	0		21.80	28.38	6.58
		1	0	16QAM	22.77	27.52	4.75
		1	38		22.94	27.71	4.77
		1	74		22.37	27.46	5.09
		27	0		21.98	27.17	5.19
132322	1745	1	0	QPSK	22.91	27.81	4.90
		1	38		22.94	27.84	4.90
		1	74		23.45	28.02	4.57
		75	0		22.13	28.94	6.81
		1	0	16QAM	22.64	28.24	5.60
		1	38		22.85	28.49	5.64
		1	74		23.26	28.56	5.30
		27	0		21.86	27.78	5.92
132597	1772.5	1	0	QPSK	22.55	27.89	5.34
		1	38		22.65	27.79	5.14
		1	74		23.40	28.00	4.60
		75	0		22.01	28.76	6.75
		1	0	16QAM	21.93	27.10	5.17
		1	38		21.96	27.05	5.09
		1	74		22.67	27.29	4.62
		27	0		21.23	27.73	6.50

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Test Data (20MHz bandwidth Mode)

Channel	Frequency (MHz)	No.RB	RB START	Modulation	Max Power(RMS)	Max Power (PK)	PAR
132072	1720	1	0	QPSK	23.29	27.90	4.61
		1	50		22.85	27.91	5.06
		1	99		22.61	27.84	5.23
		100	0		21.25	27.70	6.45
		1	0	16QAM	22.56	27.83	5.27
		1	50		22.36	27.88	5.52
		1	99		21.88	27.79	5.91
		27	0		21.62	27.03	5.41
132322	1745	1	0	QPSK	22.76	27.78	5.02
		1	50		23.16	28.01	4.85
		1	99		23.68	28.10	4.42
		100	0		22.19	28.53	6.34
		1	0	16QAM	22.06	28.10	6.04
		1	50		22.49	28.44	5.95
		1	99		23.05	28.49	5.44
		27	0		22.29	27.76	5.47
132572	1770	1	0	QPSK	22.58	27.79	5.21
		1	50		22.95	28.03	5.08
		1	99		23.25	27.95	4.70
		100	0		22.29	28.67	6.38
		1	0	16QAM	22.27	27.74	5.47
		1	50		22.59	27.93	5.34
		1	99		22.89	27.92	5.03
		27	0		22.01	27.18	5.17

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6.3. ERP and EIRP

Specifications:	FCC Part 22.913(a), 24.232(b)
DUT Serial Number:	860710050012304
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

This is the test for the maximum radiated power from the EUT.

According to Part 24.232(c),"Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power"and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

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

According to Part 27.50(d), "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

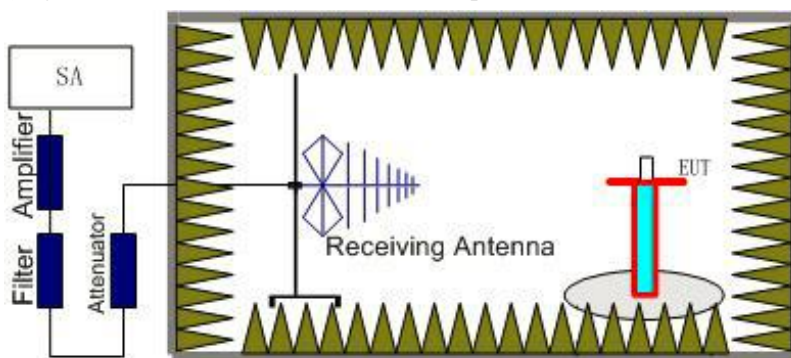
According to Part 27.50(h)(2) "Mobile stations are limited to 2.0 watts EIRP".

According to Part 27.50(c),specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

Method of Measurement

The measurements procedures in TIA-603E-2016 are used.

1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from thereceive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUTfor emission measurements. The height of receiving antenna is 1.5m. The test setup refers tofigure below. Detected emissions were maximized at each frequency by rotating the EUTthrough 360° and adjusting the receiving antenna polarization. The radiated emissionmeasurements of all transmit frequencies in three channels (High, Middle, Low) weremeasured with peak detector.

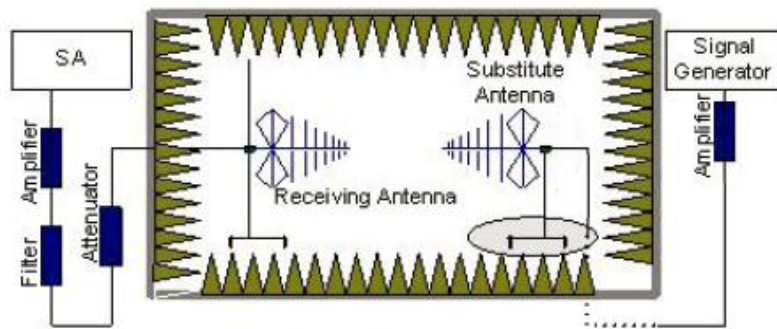


2. The EUT is then put into continuously transmitting mode at its maximum power level duringthe test. And the maximum value of the receiver should be recorded as (Pr).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.

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In the chamber, an substitution antenna for the frequency band of interest is placed at thereference point of the chamber. An RF Signal source for the frequency band of interest isconnected to the substitution antenna with a cable that has been constructed to not interferewith the radiation pattern of the antenna. A power (PMea) is applied to the input of thesubstitution antenna, and adjust the level of the signal generator output until the value of thereceiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. Thetest should be performed by rotating the test item and adjusting the receiving antennapolarization.

4. A amplifier should be connected to the Signal Source output port. And the cable should beconnect between the Amplifier and the Substitution Antenna.

The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should berecorded after test.

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = \text{PMea} + \text{PAg} - \text{Pcl} + \text{Ga}$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole,

$$\text{ERP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

$$\text{EIRP} = \text{S.G output(dBM)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

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6.3.1 GSM 850 Measurement result

GPRS GMSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
824.2	27.8	3.4	8.0	32.4	V
836.6	28.6	3.4	6.6	31.8	V
848.8	28.4	3.4	7.2	32.2	V

EGPRS 8PSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
824.2	26.5	3.4	8.0	31.1	V
836.6	27.6	3.4	6.6	30.8	V
848.8	26.5	3.4	7.2	30.3	V

6.3.2 PCS 1900 Measurement result

GPRS GMSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1850.2	26.1	5.0	7.2	28.3	V
1880.0	26.3	5.0	7.2	28.5	V
1909.8	27.3	5.1	6.8	29.0	V

EGPRS 8PSK Mode

Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
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	[dBm]				
1850.2	25.3	3.4	7.2	29.1	V
1880.0	25.3	3.4	7.2	29.1	V
1909.8	25.3	3.4	6.8	28.7	V

6.3.3 LTE Band 2 Measurement result

LTE Band 2_20 MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1860.0	18.32	5.0	7.2	20.52	V
1880.0	18.44	5.0	7.2	20.64	V
1900.0	18.98	5.1	6.8	20.68	V

LTE Band 2_20 MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1860.0	18.01	5.0	7.2	20.21	V
1880.0	18.17	5.0	7.2	20.37	V
1900.0	18.74	5.1	6.8	20.44	V

6.3.4 LTE Band 4 Measurement result

LTE Band 4_20MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1720.0	18.21	4.8	7.9	21.31	V

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1732.5	17.99	4.9	8.1	21.19	V
1745.0	18.04	4.9	8.1	21.24	V

LTE Band 4_20MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	EIRP [dBm]	Antenna Polarization [H/V]
1720.0	17.70	4.8	7.9	20.80	V
1732.5	17.54	4.9	8.1	20.74	V
1745.0	17.59	4.9	8.1	20.79	V

6.3.5 LTE Band 5 Measurement result
LTE Band 5_10MHz_QPSK

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	ERP [dBm]	Antenna Polarization [H/V]
829.0	17.49	3.4	7.3	21.39	V
836.4	18.37	3.4	6.6	21.57	V
844.0	18.30	3.4	6.6	21.50	V

LTE Band 5_10MHz_16QAM

Frequency [MHz]	Generator output power(P _g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P _d) [dBm]	Antenna Polarization [H/V]
829.0	16.80	3.4	7.3	20.70	V
836.4	17.71	3.4	6.6	20.91	V
844.0	17.63	3.4	6.6	20.83	V

6.3.6 LTE Band 66 Measurement result
LTE Band 66_20MHz_QPSK
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Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1720	14.43	3.1	9.1	20.43	V
1745	14.51	3.1	9.1	20.51	V
1769.9	14.86	3.2	8.8	20.46	V

LTE Band 66_20MHz_16QAM

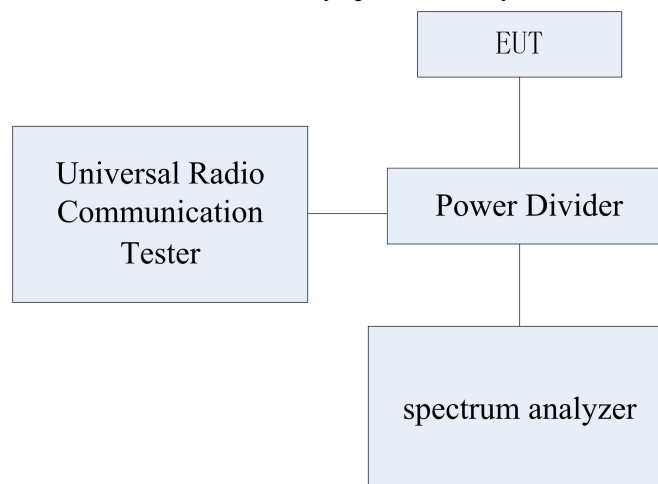
Frequency [MHz]	Generator output power(P_g) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (P_d) [dBm]	Antenna Polarization [H/V]
1720	14.27	3.1	9.1	20.27	V
1745	14.22	3.1	9.1	20.22	V
1769.9	14.74	3.2	8.8	20.34	V

6.4. Occupied Bandwidth

Specifications:	FCC Part 2.1049, 22.917(b), 24.238(b)
DUT Serial Number:	860710050007536
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: --

6.4.1 GSM Mode Occupied Bandwidth Results

Band	EUT channel No.	Mode	99% OBW (MHz)	-26dBc OBW (MHz)
GSM850	128	GMSK	0.24	0.31
		8PSK	0.24	0.29
	190	GMSK	0.24	0.31
		8PSK	0.25	0.30
	251	GMSK	0.24	0.30
		8PSK	0.24	0.29
PCS1900	512	GMSK	0.24	0.30
		8PSK	0.24	0.32
	661	GMSK	0.24	0.30
		8PSK	0.25	0.31
	810	GMSK	0.24	0.31
		8PSK	0.25	0.31

6.4.2 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	1.10	1.26
		3MHz	15		2.68	2.88
		5MHz	25		4.51	4.93
		10MHz	50		8.97	9.51
		15MHz	75		13.36	14.13
		20MHz	100		17.93	18.99
16QAM		1.4MHz	6		1.09	1.26
		3MHz	15		2.68	2.89
		5MHz	25		4.50	4.87
		10MHz	27		4.83	5.67
		15MHz	27		4.85	5.72
		20MHz	27		4.87	5.96

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6.4.3 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	1.10	1.26
		3MHz	15		2.69	2.87
		5MHz	25		4.51	4.95
		10MHz	50		8.97	9.55
		15MHz	75		13.55	14.61
		20MHz	100		18.01	19.03
16QAM		1.4MHz	6		1.09	1.29
		3MHz	15		2.68	2.87
		5MHz	25		4.50	4.90
		10MHz	27		4.83	5.70
		15MHz	27		4.90	5.67
		20MHz	27		4.87	5.08

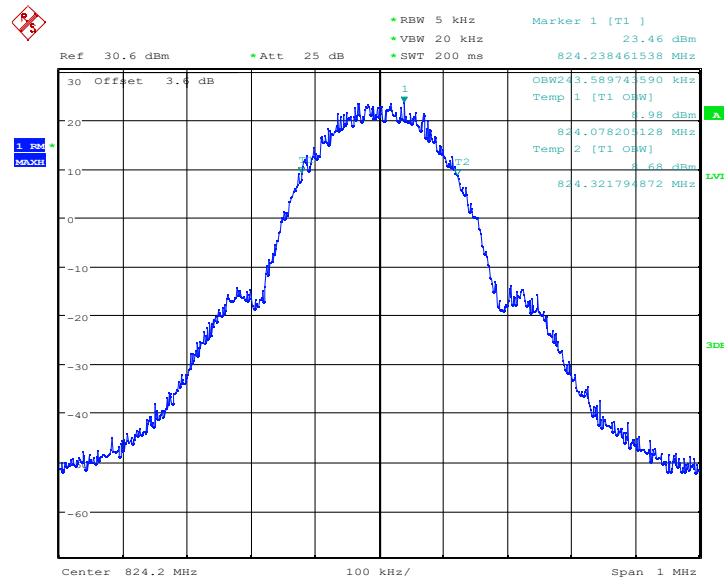
6.4.4 LTE B5 occupied bandwidth Results

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	1.09	1.25
		3MHz	15		2.68	2.88
		5MHz	25		4.51	4.91
		10MHz	50		8.97	9.58
16QAM		1.4MHz	6		1.10	1.26
		3MHz	15		2.68	2.85
		5MHz	25		4.50	4.91
		10MHz	27		4.83	5.51

6.4.5 LTE B66 occupied bandwidth Results

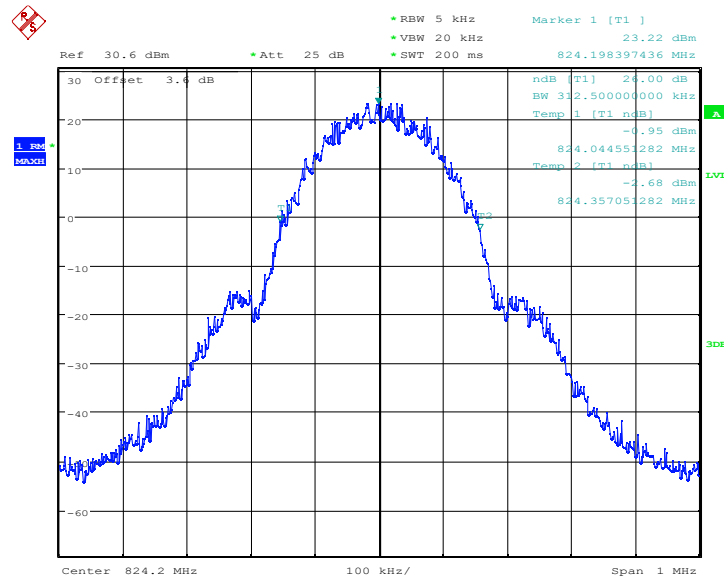
Mode	EUT channel No.	bandwidth	No. RB	RB offset	99% occupied bandwidth [MHz]	-26dBc occupied bandwidth [MHz]
QPSK	132322(1745M Hz)	1.4MHz	6	0	1.09	1.27
		3MHz	15		2.68	2.87
		5MHz	25		4.53	4.93
		10MHz	50		8.94	9.51
		15MHz	75		13.55	14.56
		20MHz	100		18.01	18.97
16QAM		1.4MHz	6		1.09	1.27
		3MHz	15		2.68	2.87
		5MHz	25		4.50	4.88
		10MHz	27		4.83	5.35
		15MHz	27		4.86	5.33
		20MHz	27		4.87	5.32

Graphical results for GSM850:



Date: 2.SEP.2021 20:16:43

GMSK 99% Channel 128

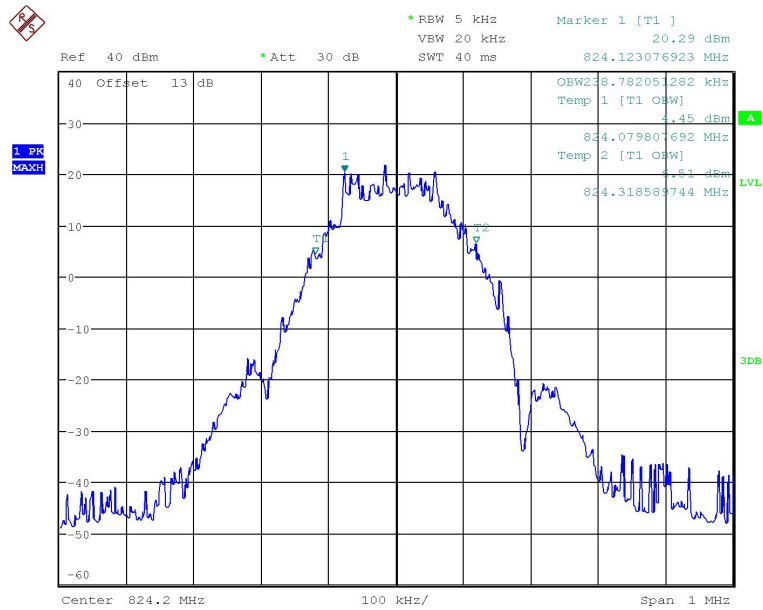


Date: 2.SEP.2021 20:17:09

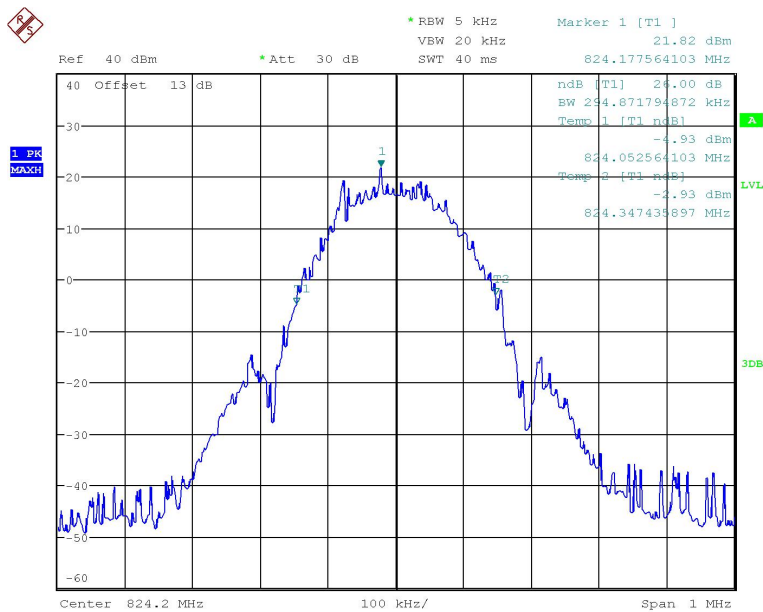
GMSK -26dBc Channel 128

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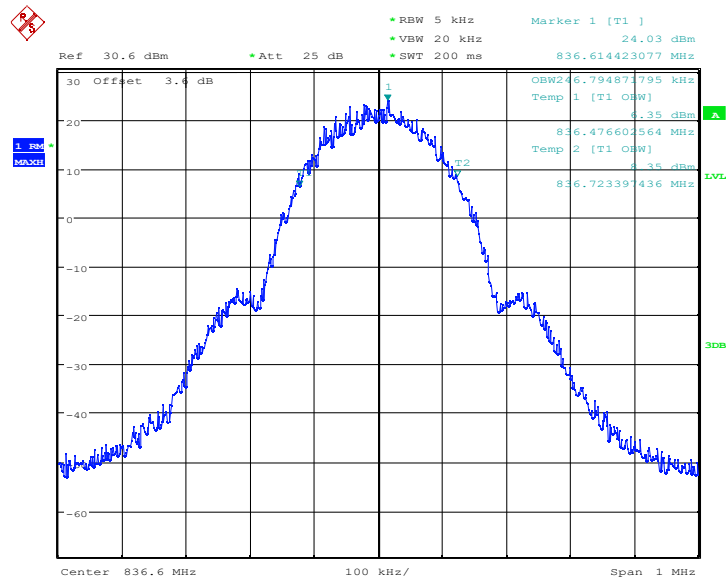
8PSK 99% Channel 128



8PSK -26dBc Channel 128

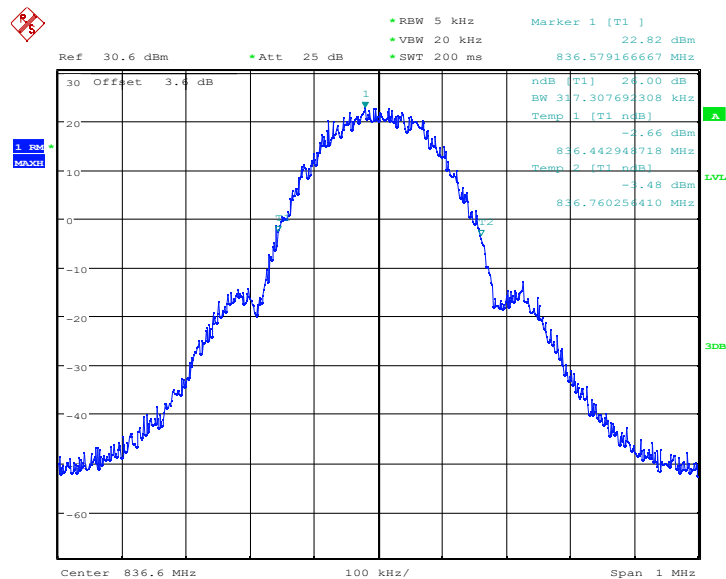
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Date: 2.SEP.2021 20:19:02

GMSK 99% Channel 190

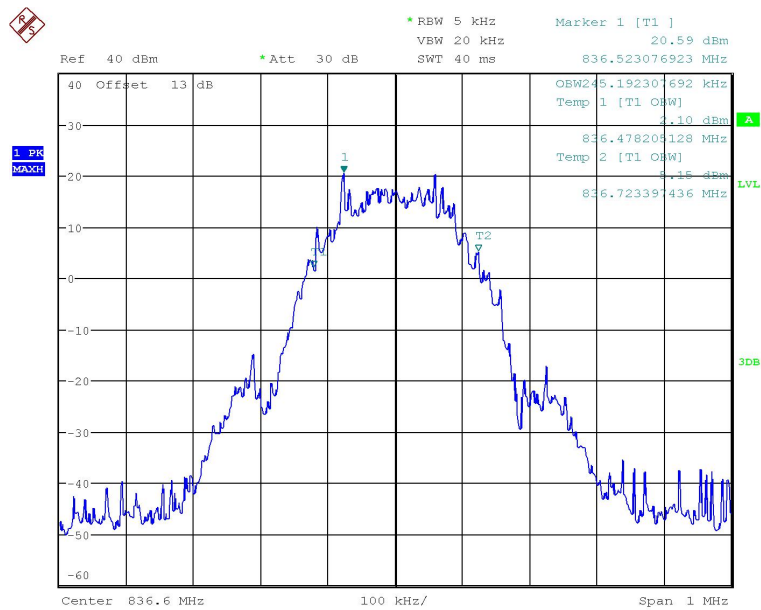


Date: 2.SEP.2021 20:18:27

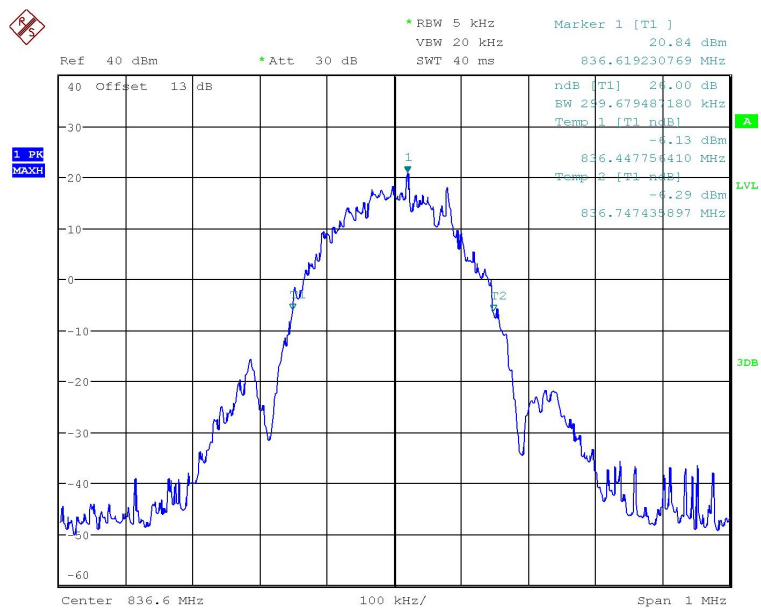
GMSK -26dBc Channel 190

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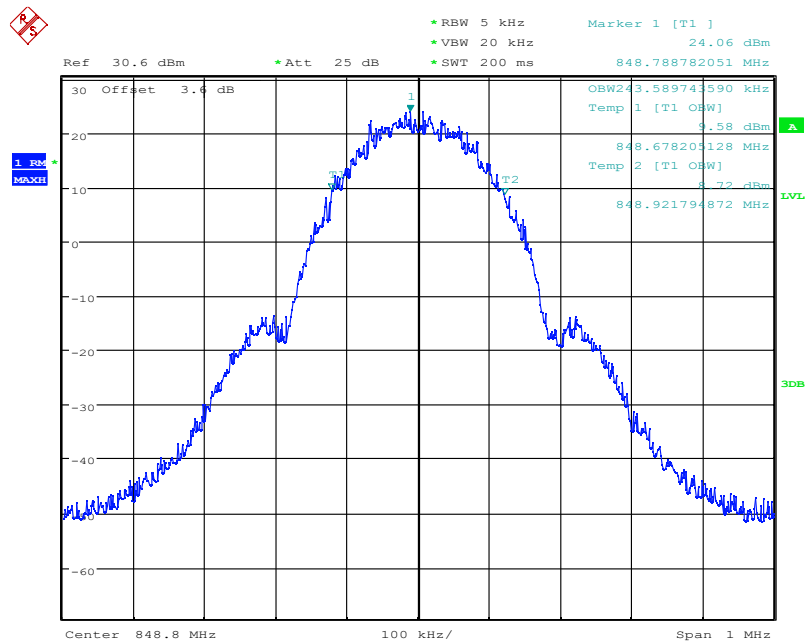
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8PSK 99% Channel 190

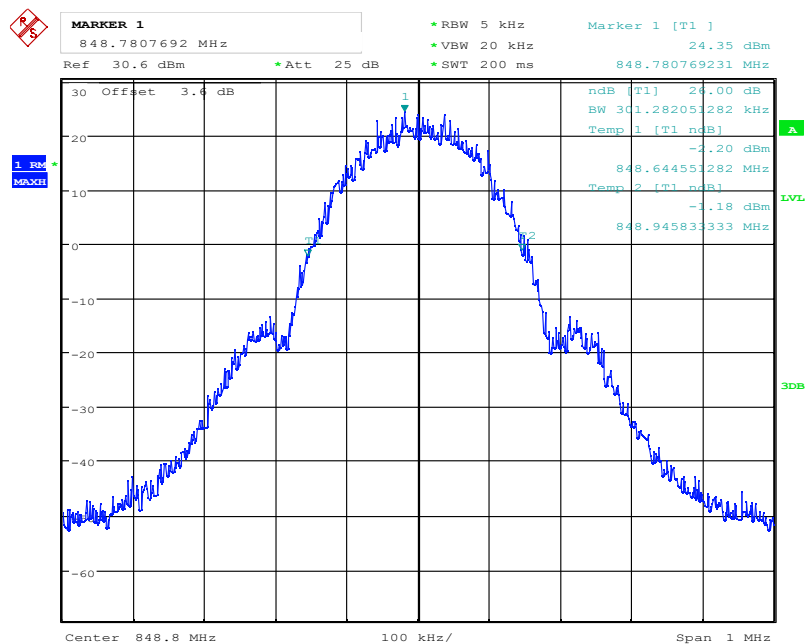


8PSK -26dBc Channel 190



Date: 2.SEP.2021 20:20:05

GMSK 99% Channel 251

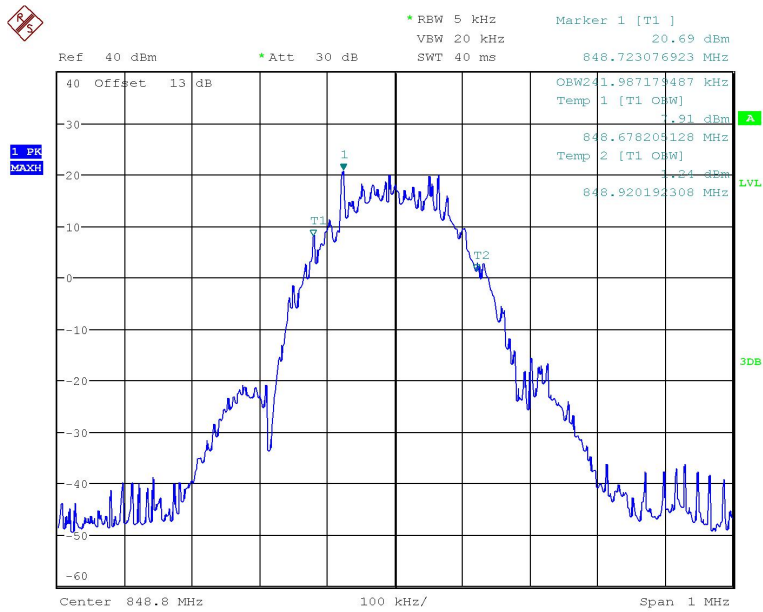


Date: 2.SEP.2021 20:20:37

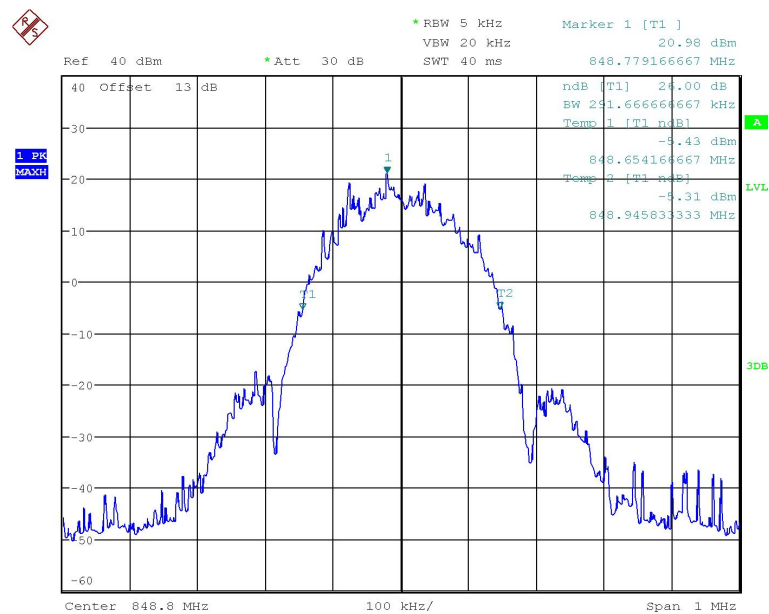
GMSK -26dBc Channel 251

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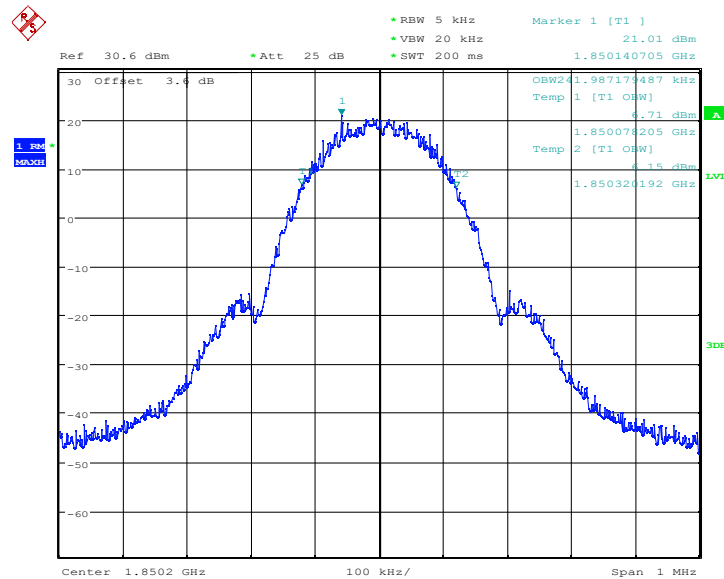


8PSK 99% Channel 251



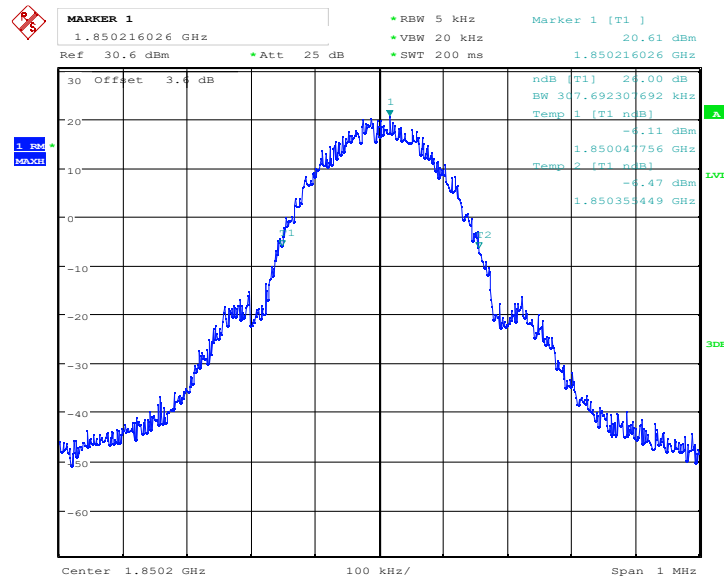
8PSK -26dBc Channel 251

Graphical results for GSM1900:



Date: 2.SEP.2021 20:51:37

GMSK 99% Channel 512

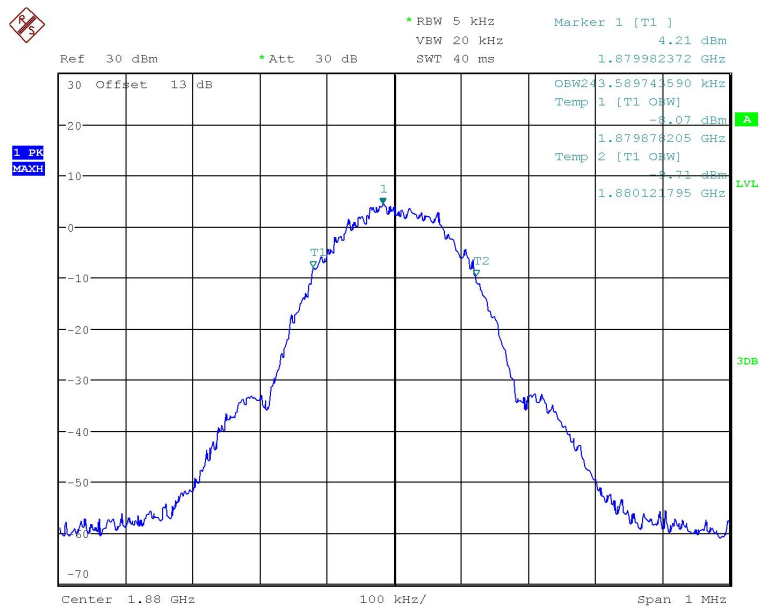


Date: 2.SEP.2021 20:51:58

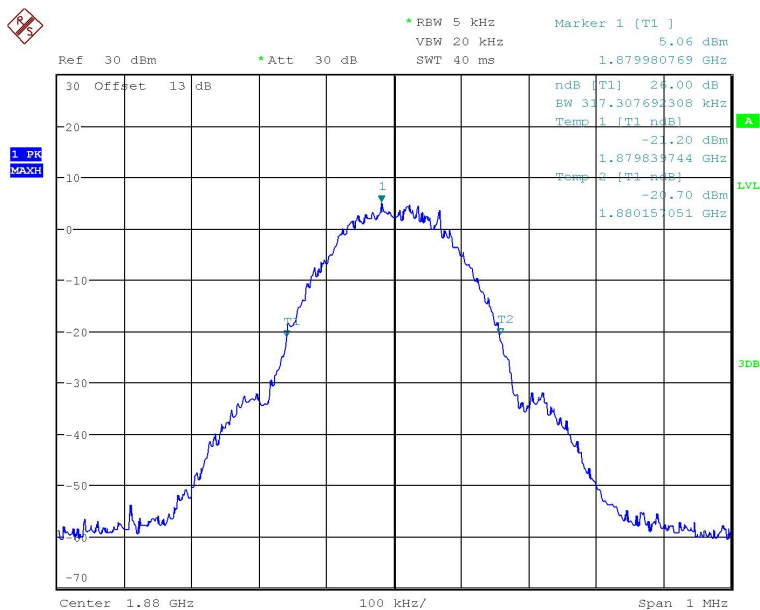
GMSK -26dBc Channel 512

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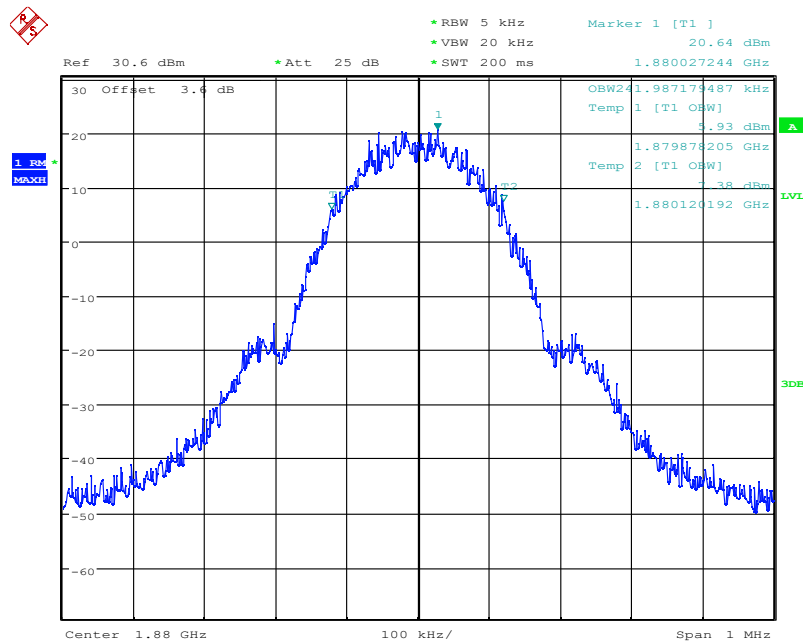
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8PSK 99% Channel 512

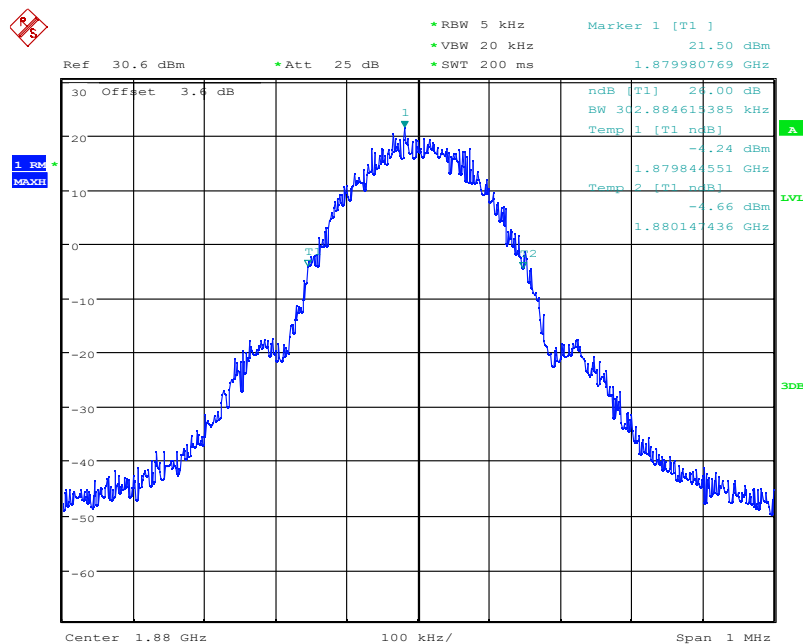


8PSK -26dBc Channel 512



Date: 2.SEP.2021 20:52:56

GSM 99% Channel 661

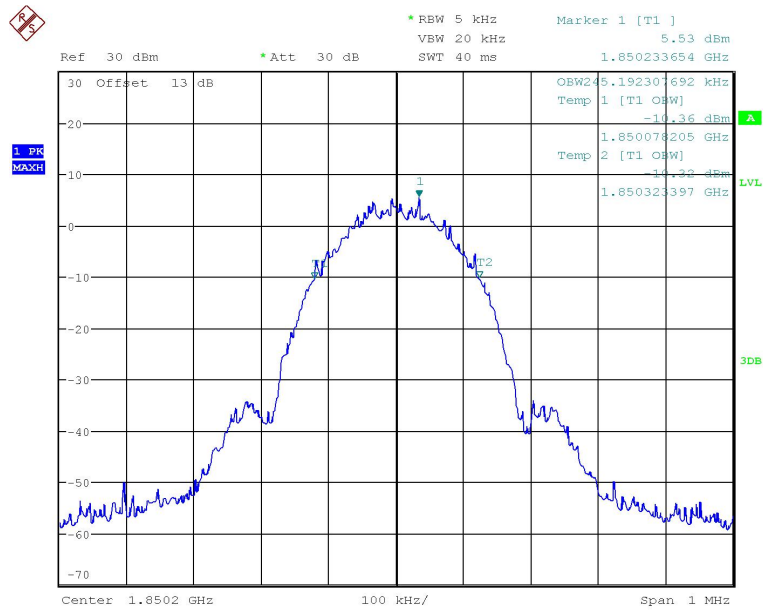


Date: 2.SEP.2021 20:52:36

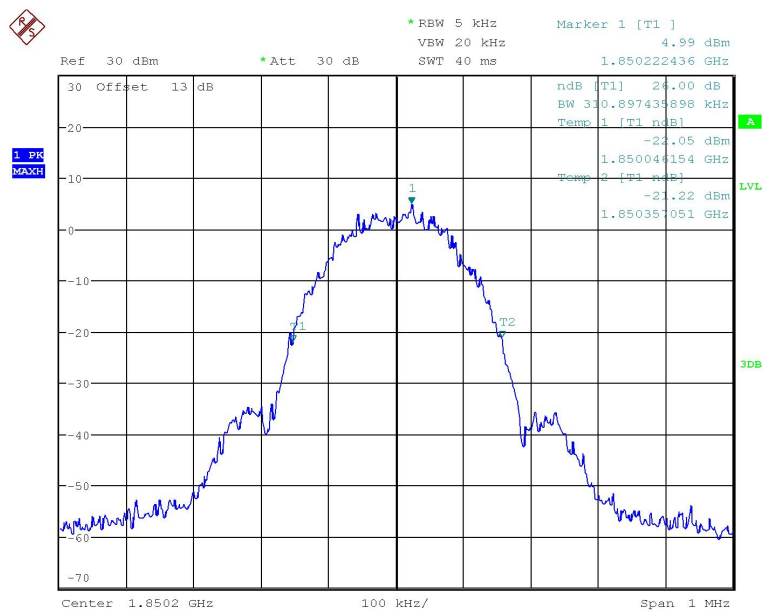
GSM -26dBc Channel 661

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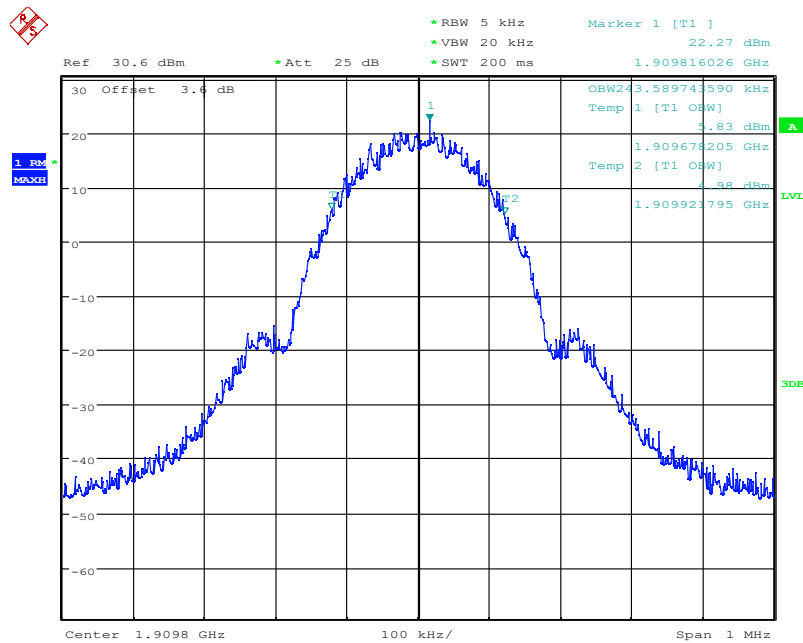
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8PSK 99% Channel 661

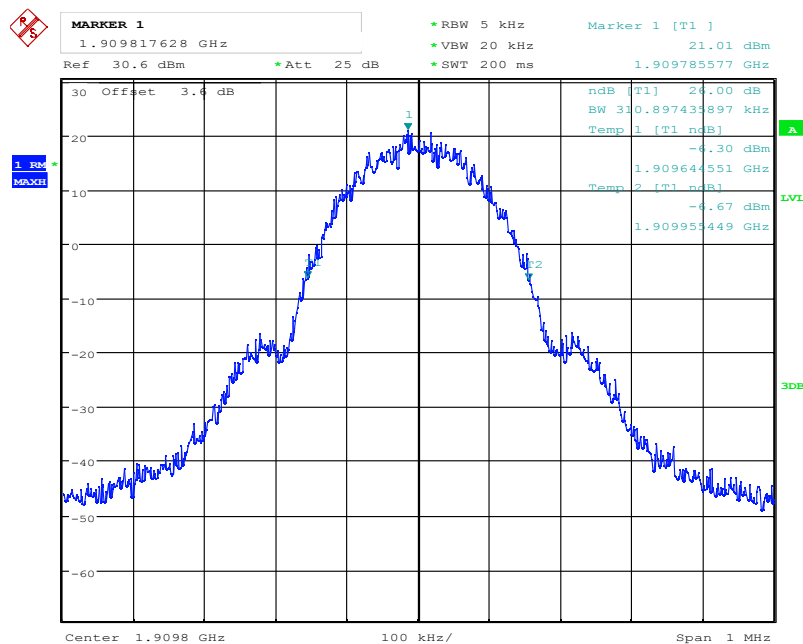


8PSK -26dBc Channel 661



Date: 2.SEP.2021 20:53:46

GMSK 99% Channel 810

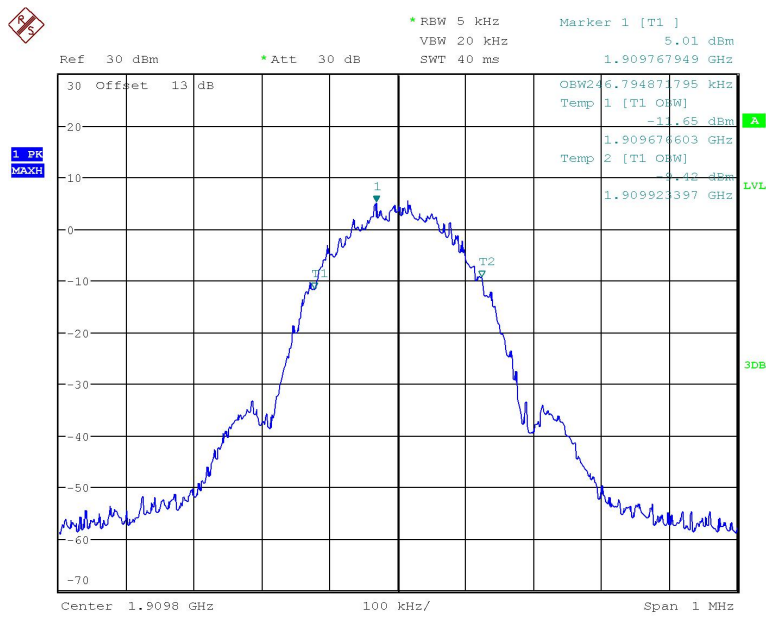


Date: 2.SEP.2021 20:54:07

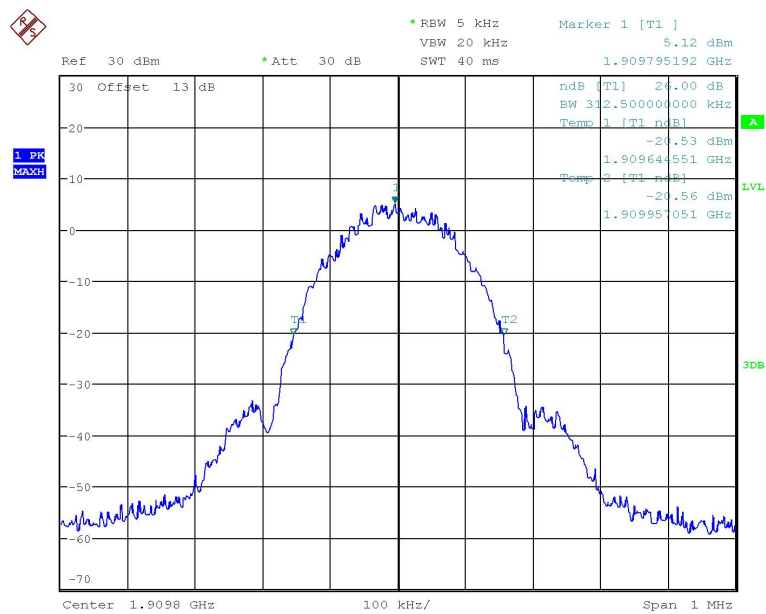
GMSK -26dBc Channel 810

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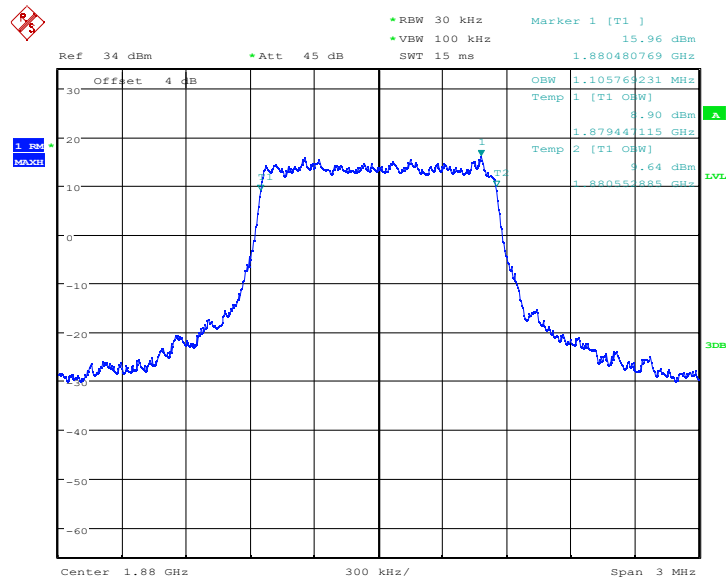


8PSK 99% Channel 810



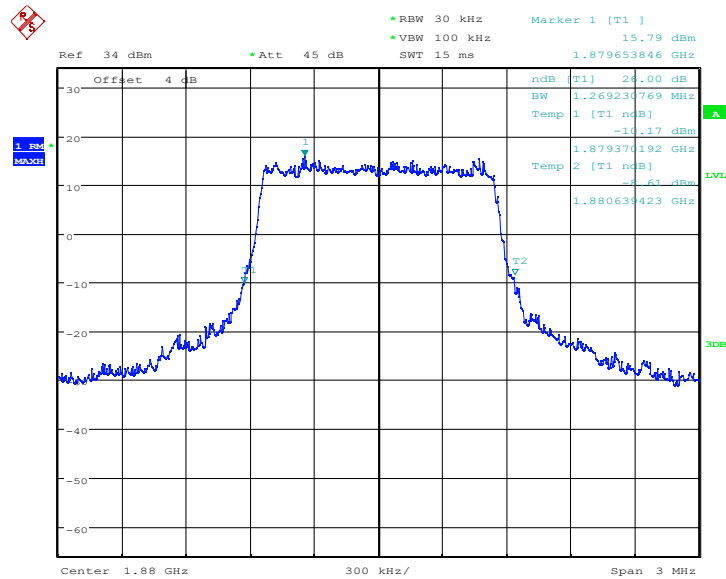
8PSK -26dBc Channel 810

Graphical results for LTE B2:



Date: 1.SEP.2021 20:29:40

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

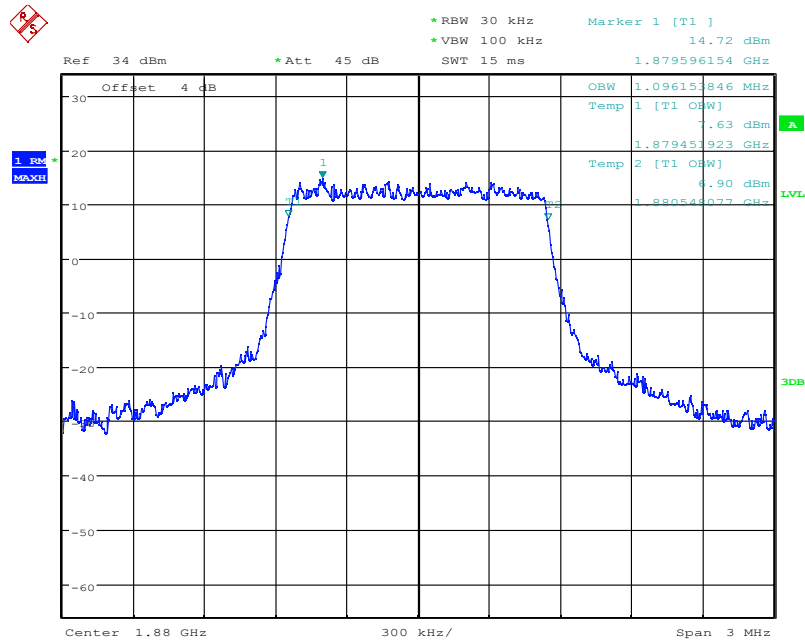


Date: 1.SEP.2021 20:29:59

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

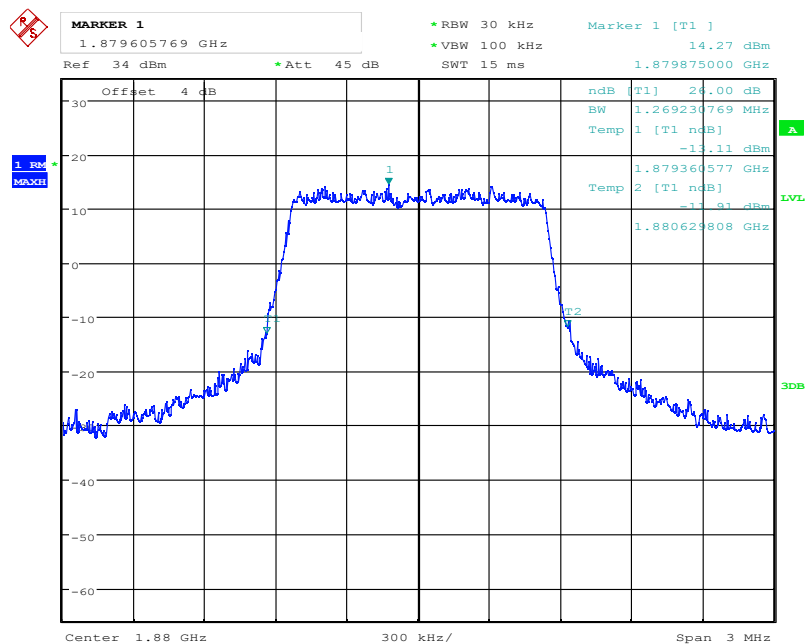
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Date: 1.SEP.2021 20:40:13

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



Date: 1.SEP.2021 20:40:43

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

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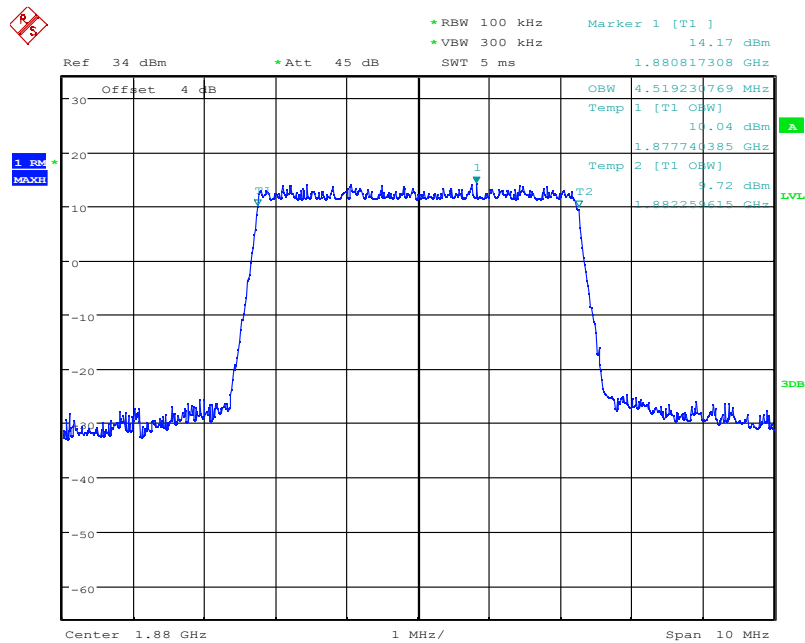


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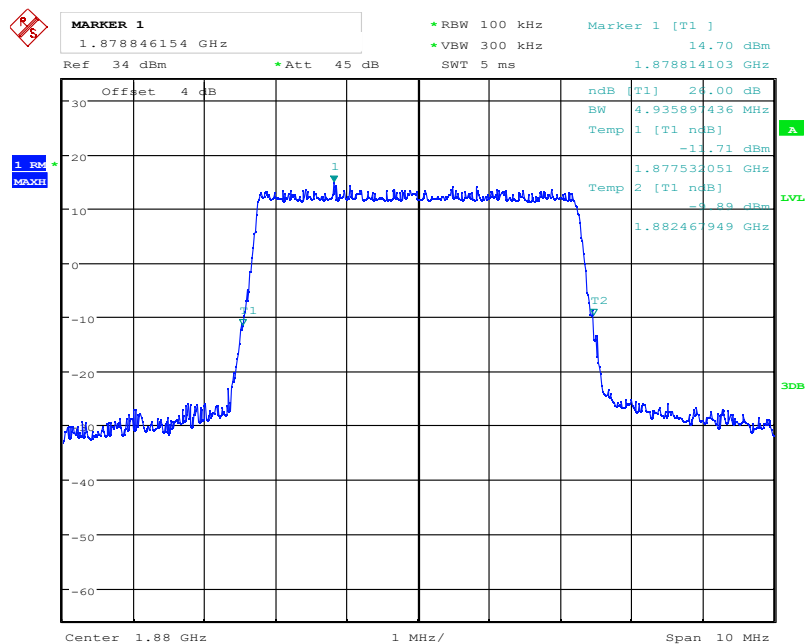


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Date: 1.SEP.2021 20:34:00

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

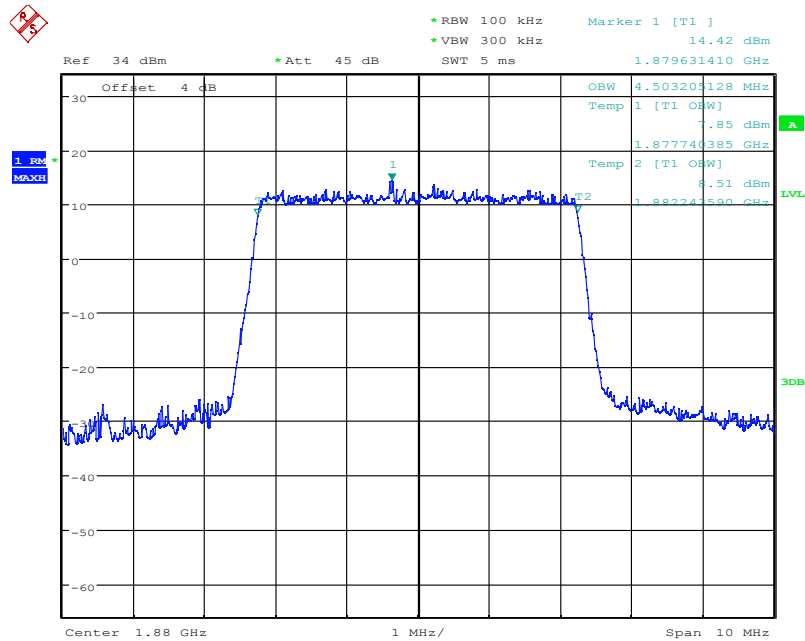


Date: 1.SEP.2021 20:34:20

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

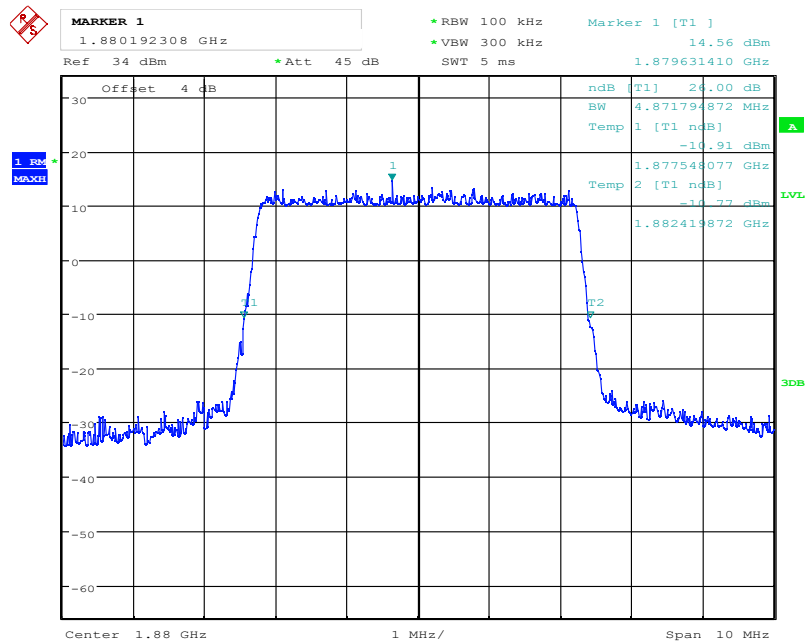
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Date: 1.SEP.2021 20:42:27

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

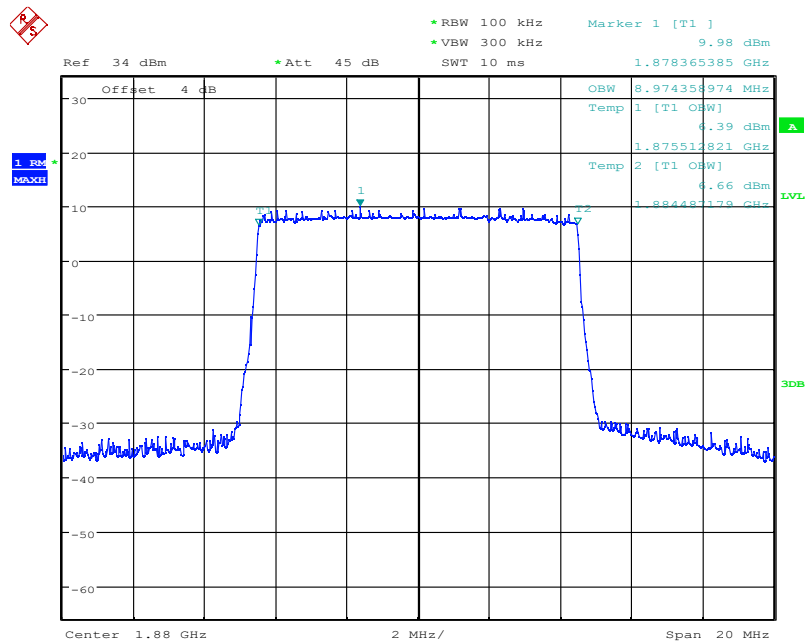


Date: 1.SEP.2021 20:42:43

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

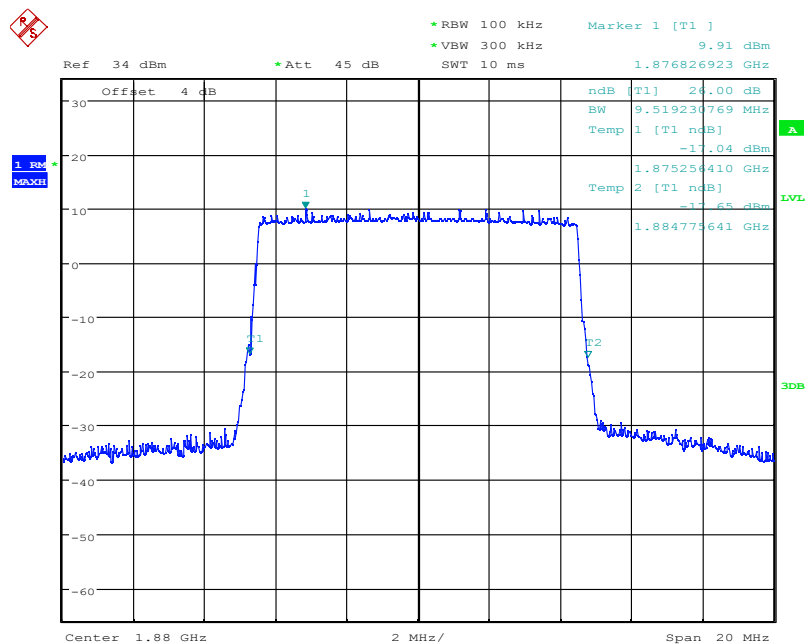
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Date: 1.SEP.2021 20:35:22

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



Date: 1.SEP.2021 20:34:58

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

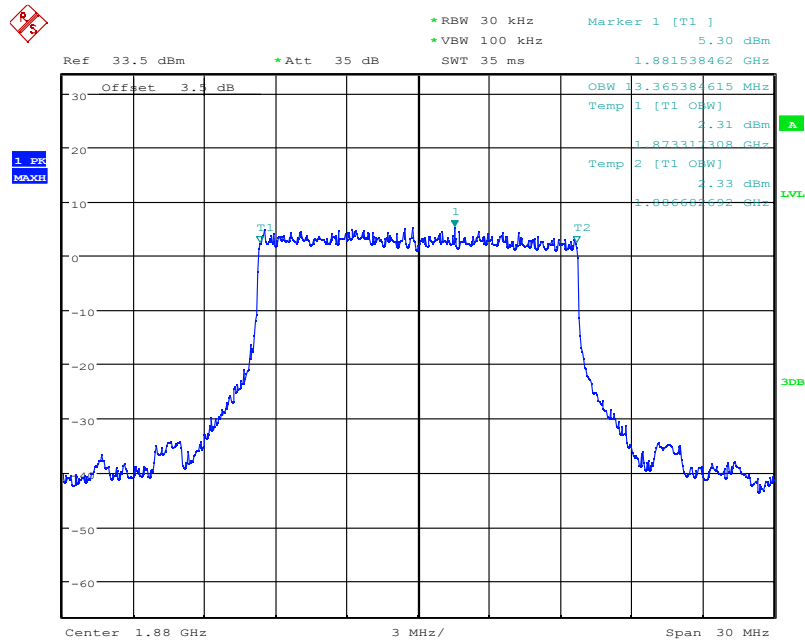
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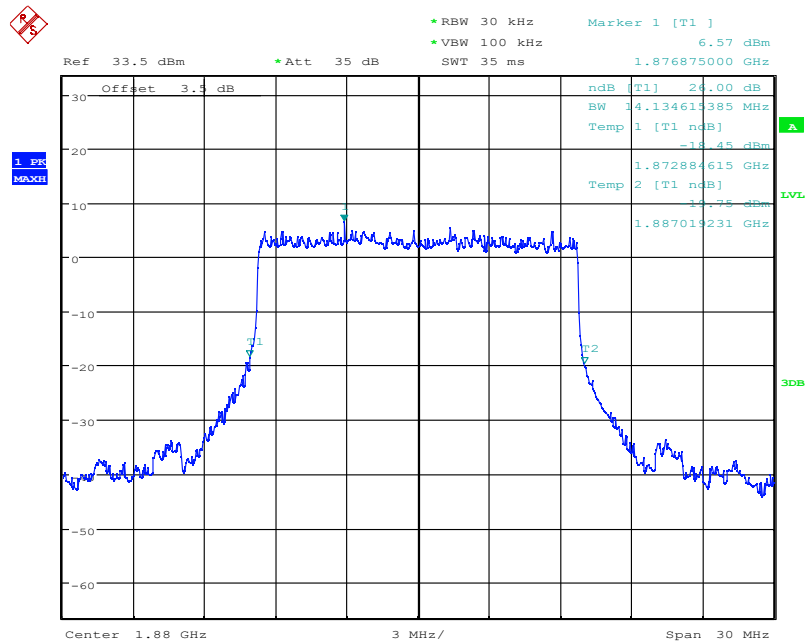
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Date: 8.SEP.2021 20:18:06

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

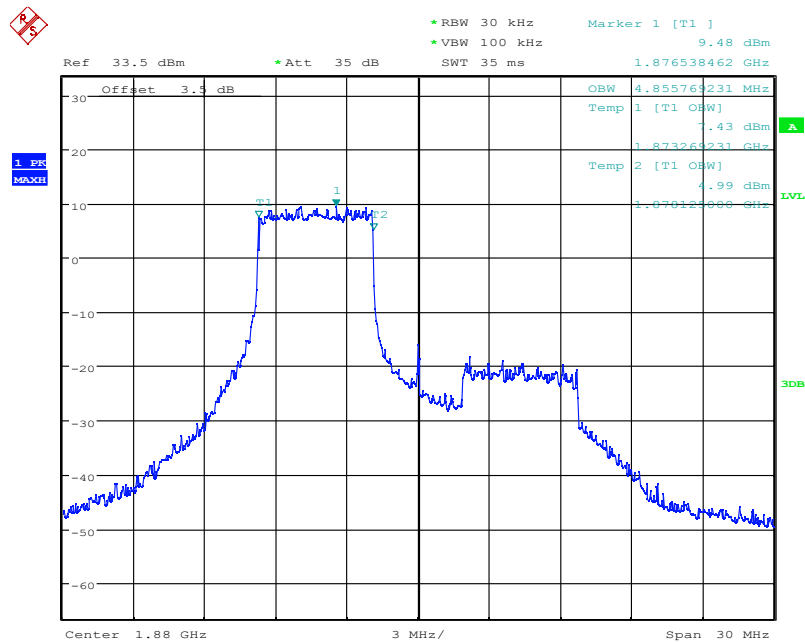


Date: 8.SEP.2021 20:18:15

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

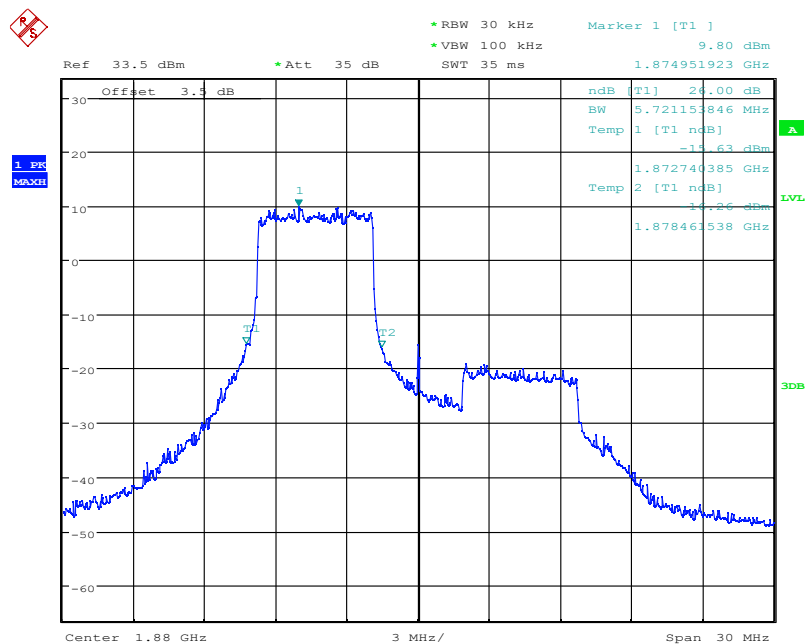
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Date: 8.SEP.2021 20:17:46

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

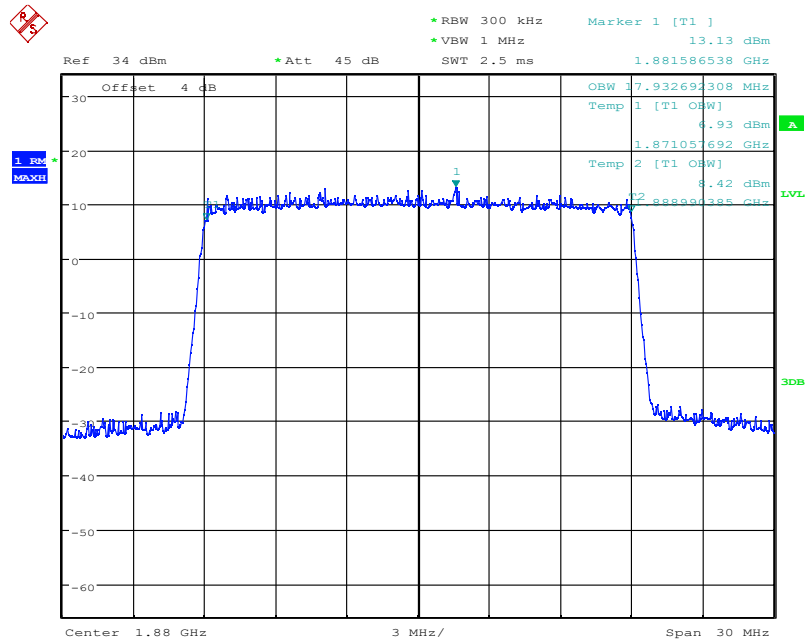


Date: 8.SEP.2021 20:17:27

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

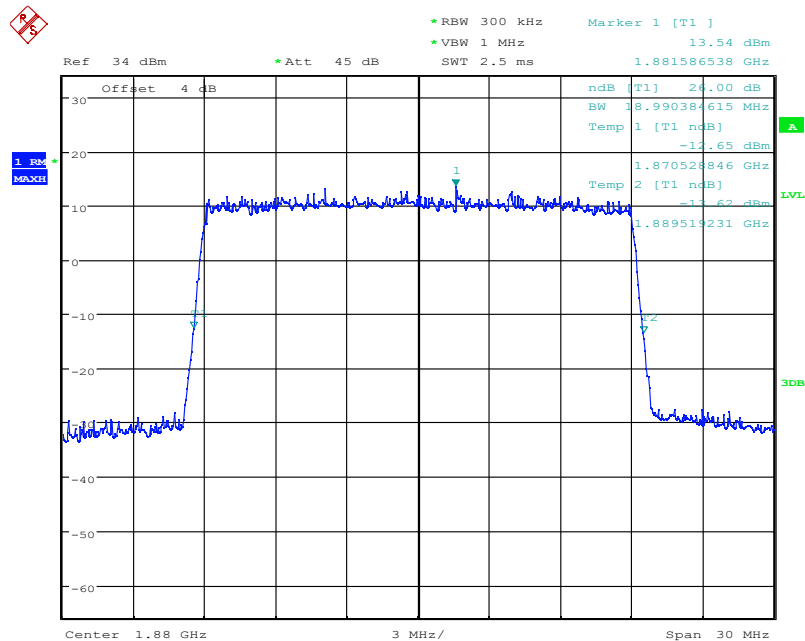
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Date: 1.SEP.2021 20:38:37

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

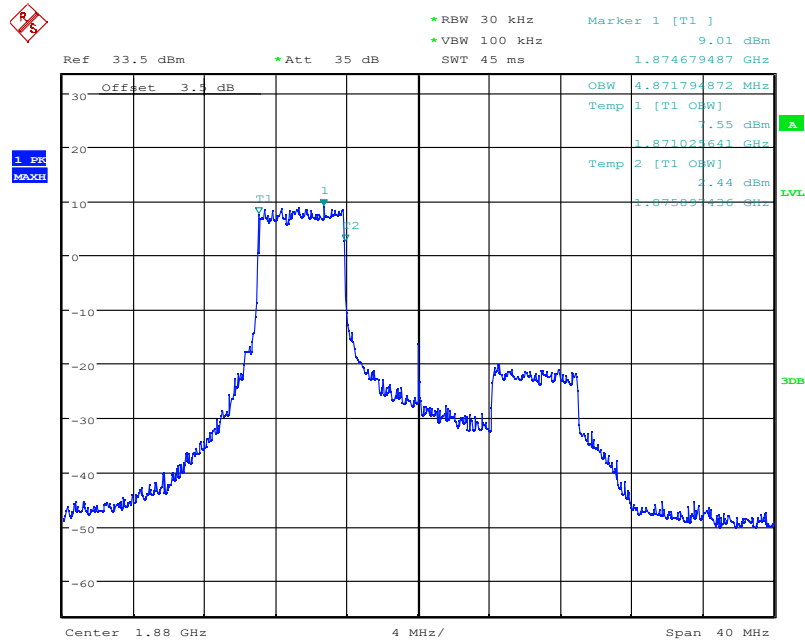


Date: 1.SEP.2021 20:38:22

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

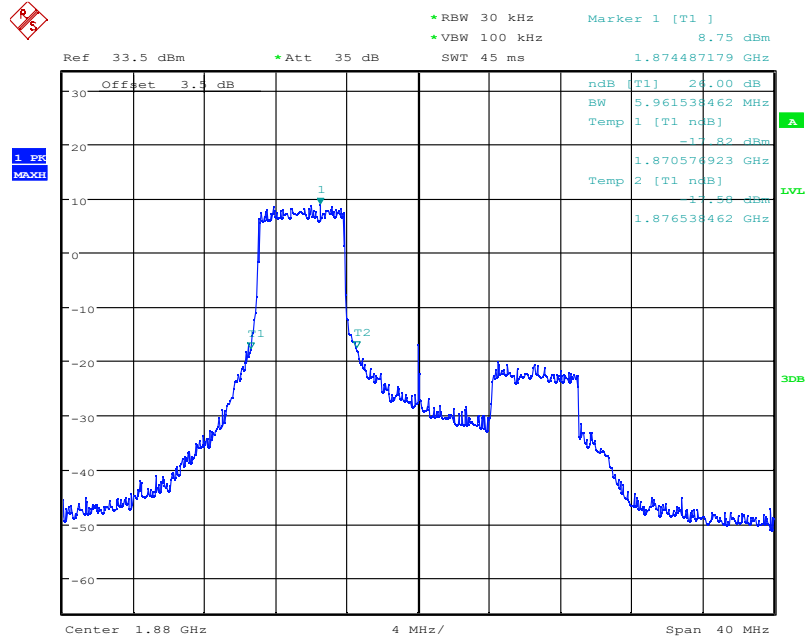
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Date: 8.SEP.2021 20:16:45

LTE Band2 16QAM 99% Channel 18900 BW=20MHz RB=27 RB Offset=0



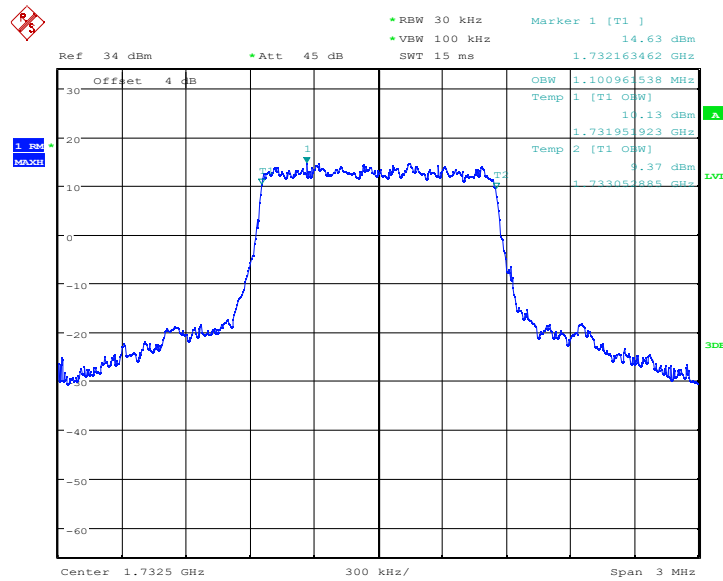
Date: 8.SEP.2021 20:16:54

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

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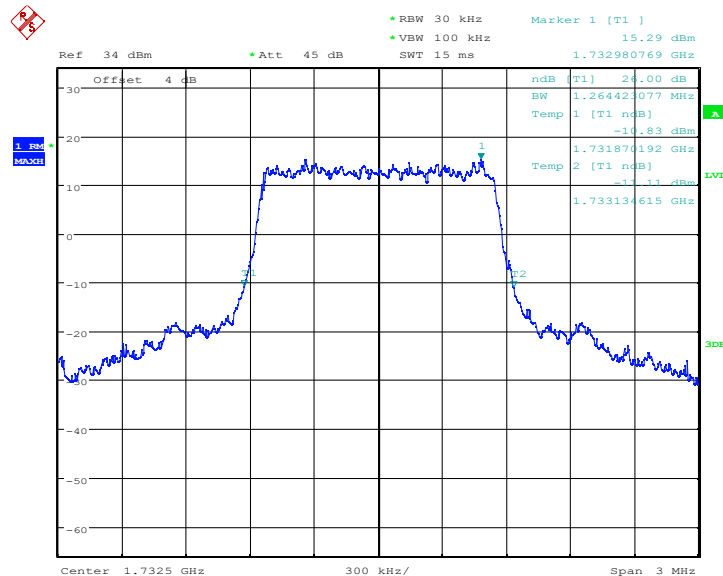
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Graphical results for LTE B4



Date: 1.SEP.2021 20:44:54

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

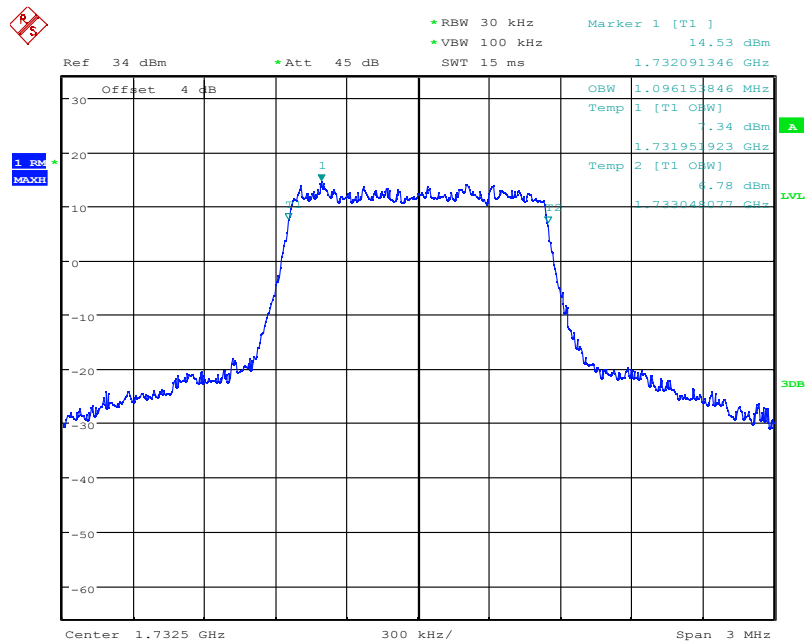


Date: 1.SEP.2021 20:44:27

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

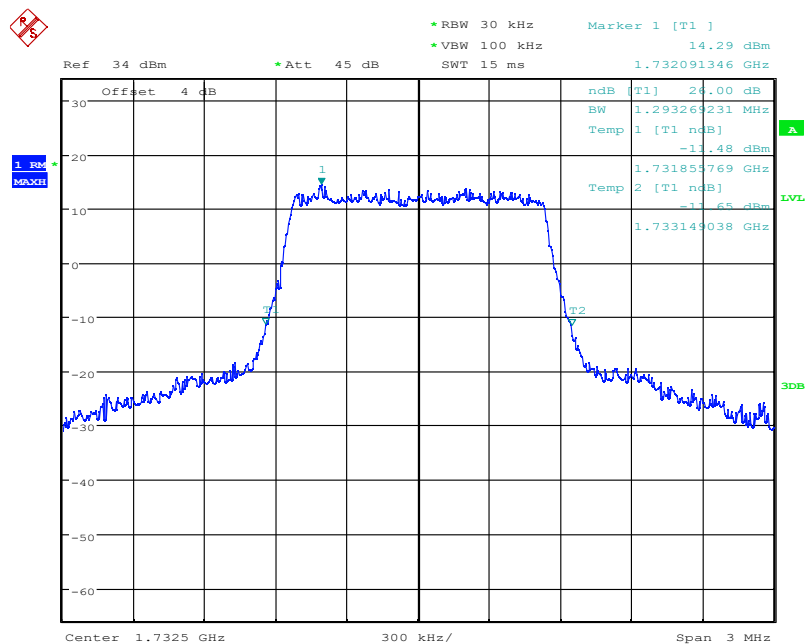
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Date: 1.SEP.2021 20:53:03

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

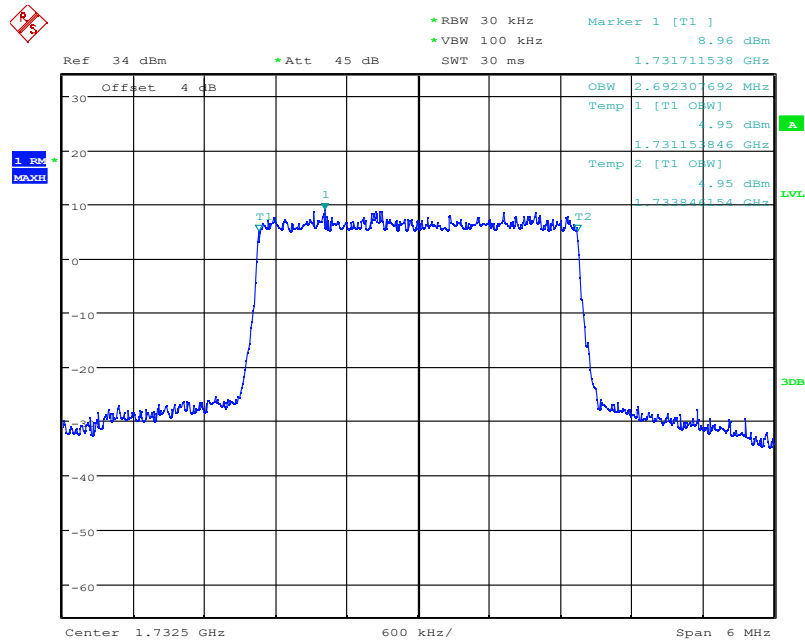


Date: 1.SEP.2021 20:52:33

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

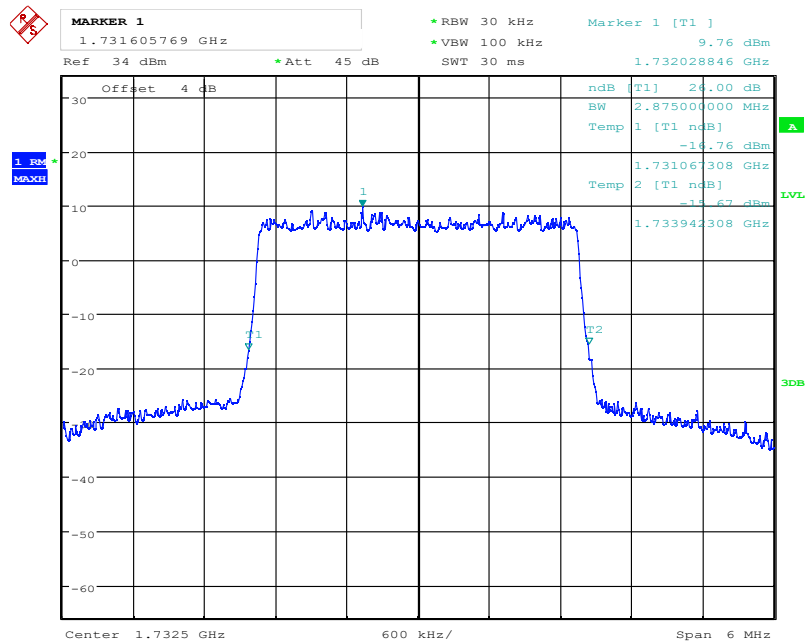
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Date: 1.SEP.2021 20:45:37

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



Date: 1.SEP.2021 20:46:05

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

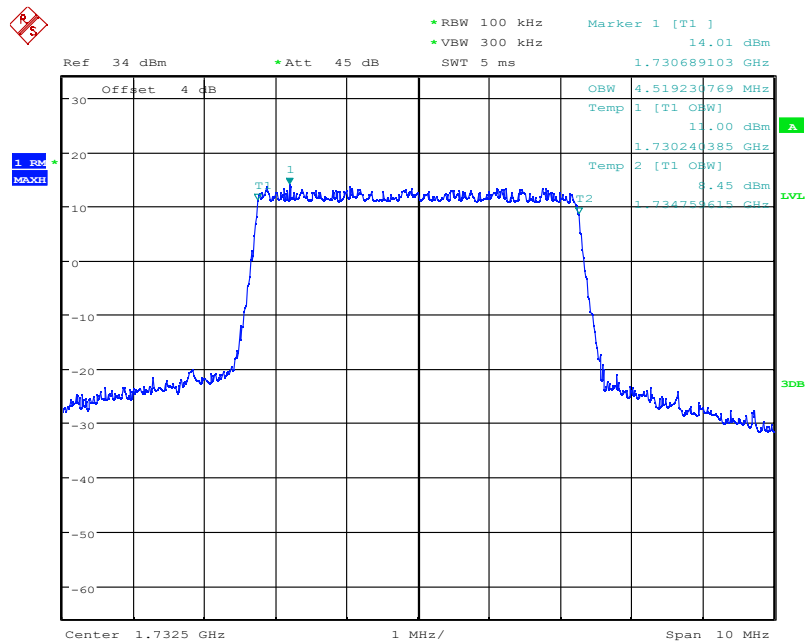
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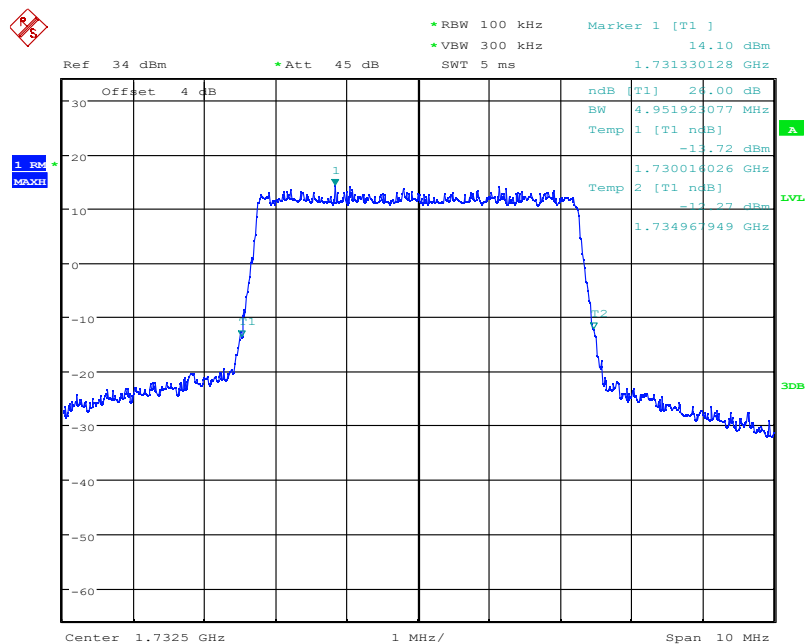
Chongqing Academy of Information and Communication Technology

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Date: 1.SEP.2021 20:47:08

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

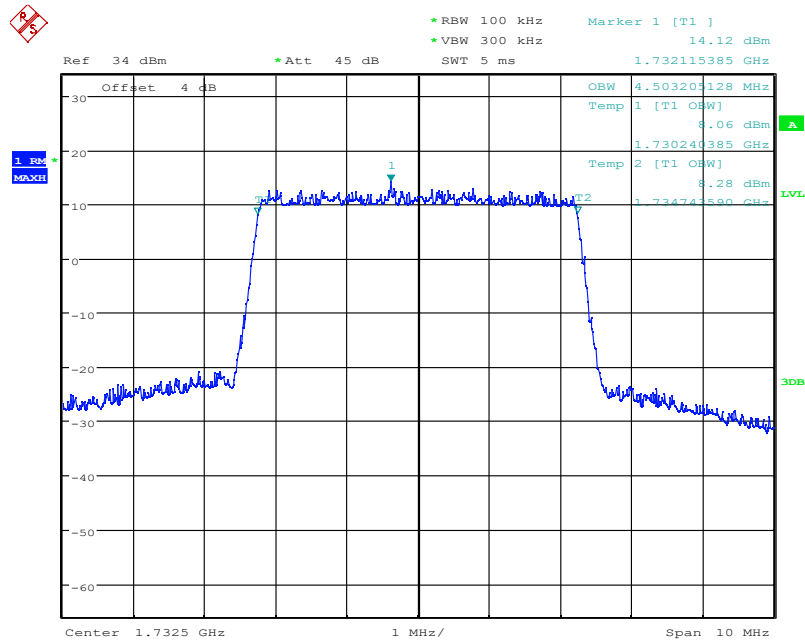


Date: 1.SEP.2021 20:46:48

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

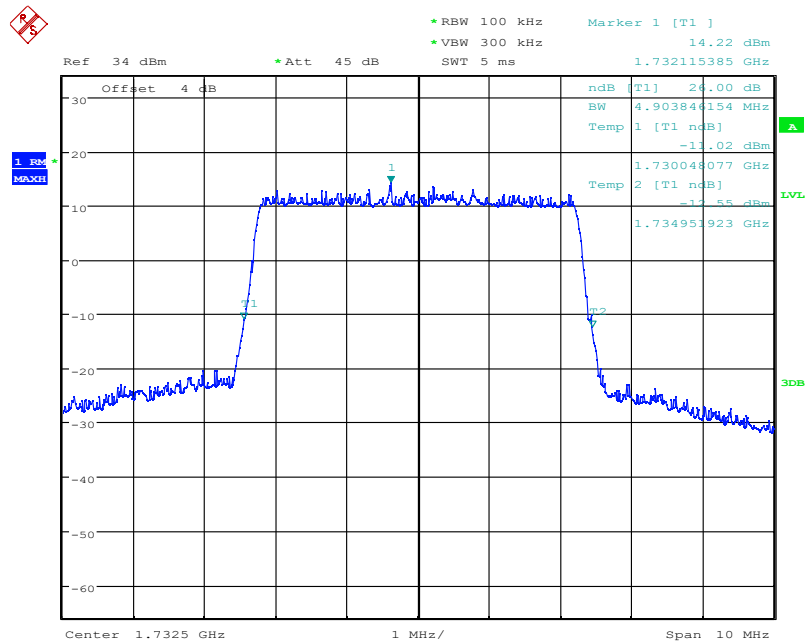
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Date: 1.SEP.2021 20:54:56

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

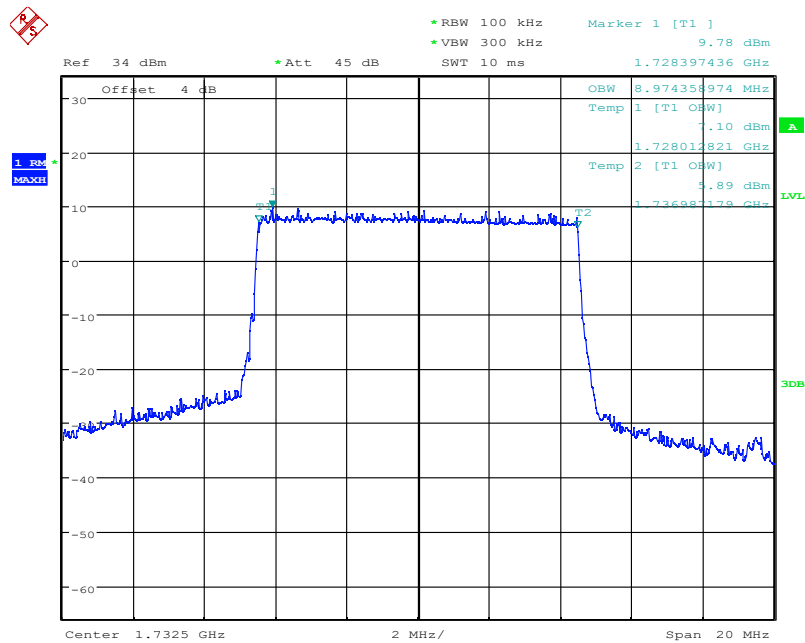


Date: 1.SEP.2021 20:54:40

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

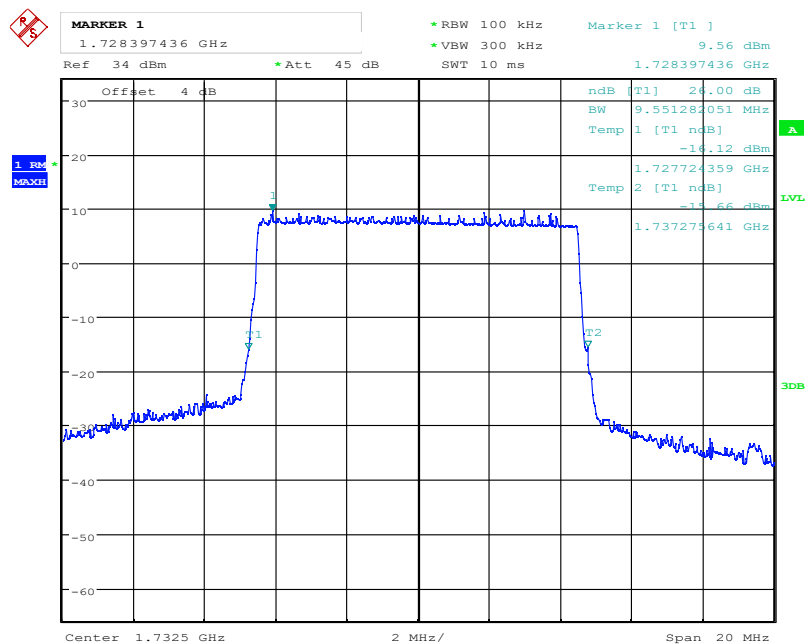
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Date: 1.SEP.2021 20:48:23

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

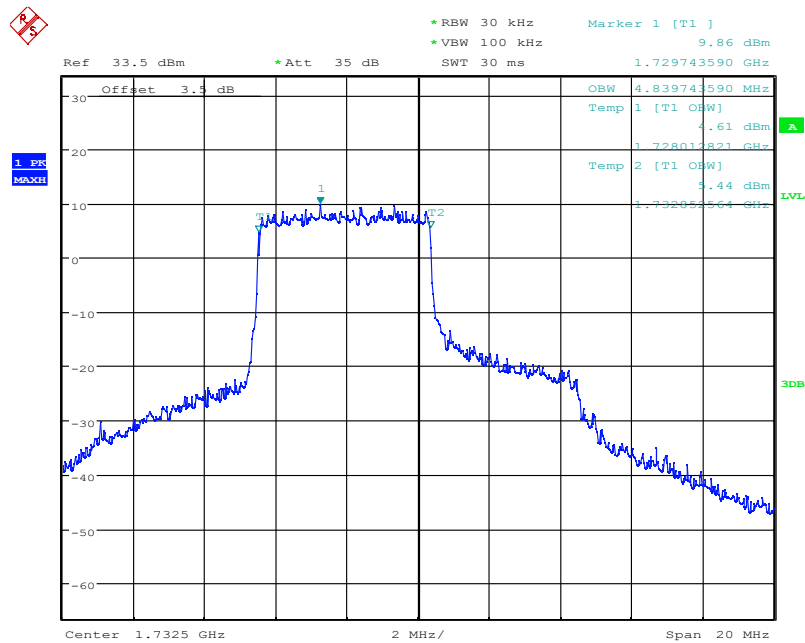


Date: 1.SEP.2021 20:48:47

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

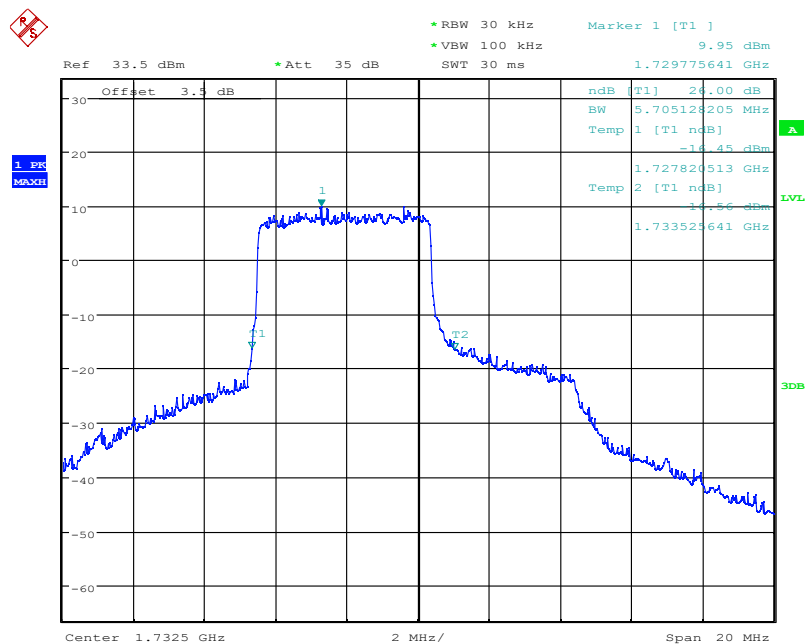
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Date: 8.SEP.2021 20:20:21

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



Date: 8.SEP.2021 20:20:13

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

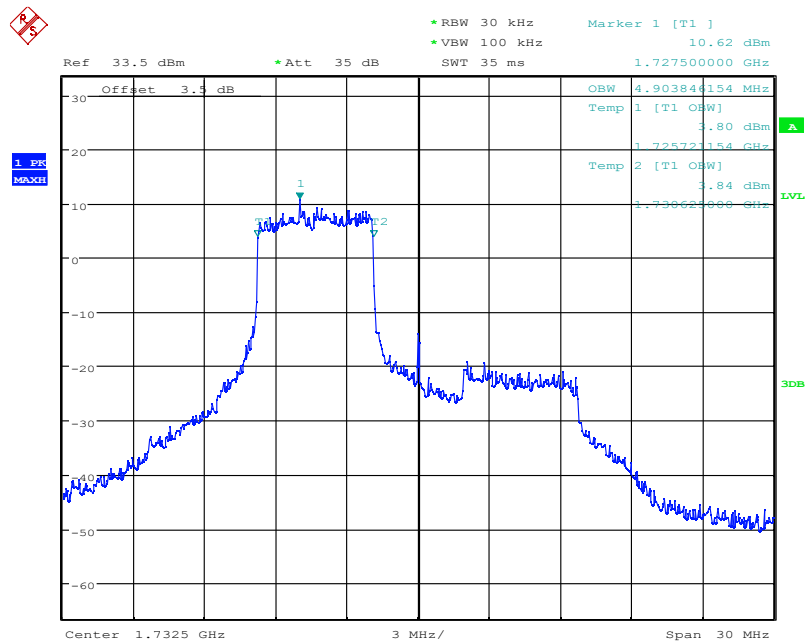
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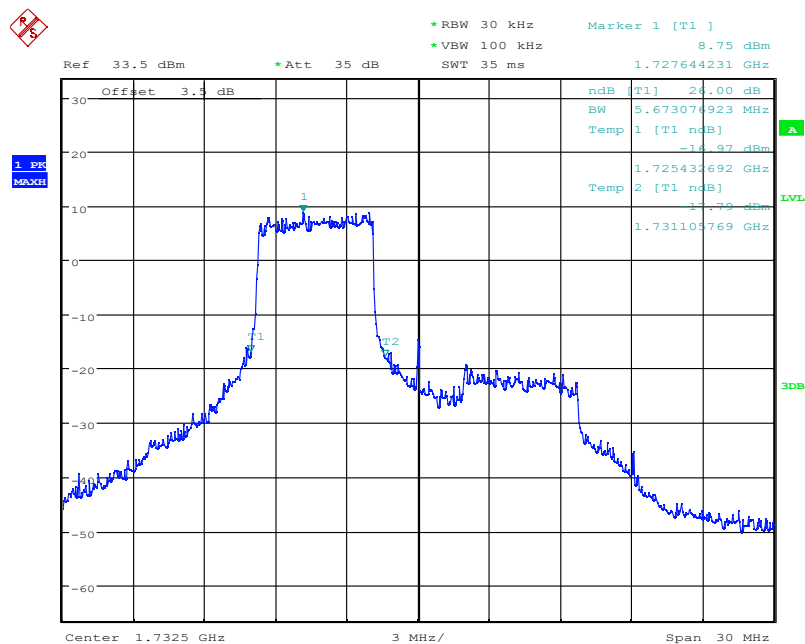
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Date: 8.SEP.2021 20:20:47

LTE Band4 16QAM 99% Channel 20175 BW=15MHz RB=27 RB Offset=0

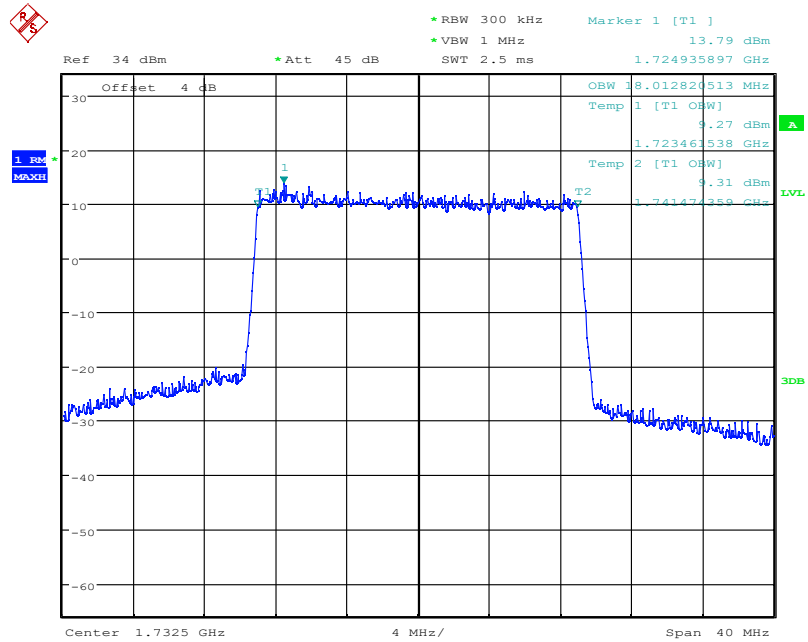


Date: 8.SEP.2021 20:20:55

LTE Band4 16QAM -26dBc Channel 20175 BW=15MHz RB=27 RB Offset=0

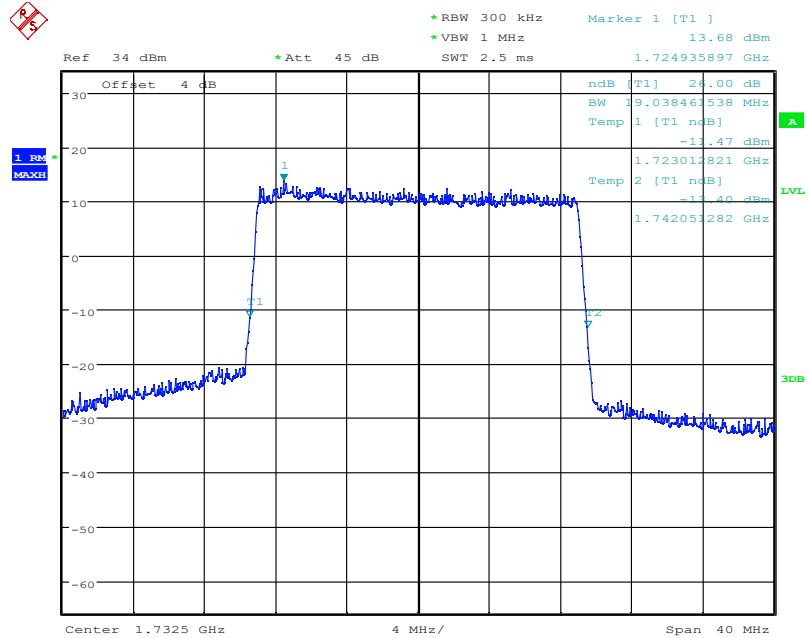
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Date: 1.SEP.2021 20:51:19

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

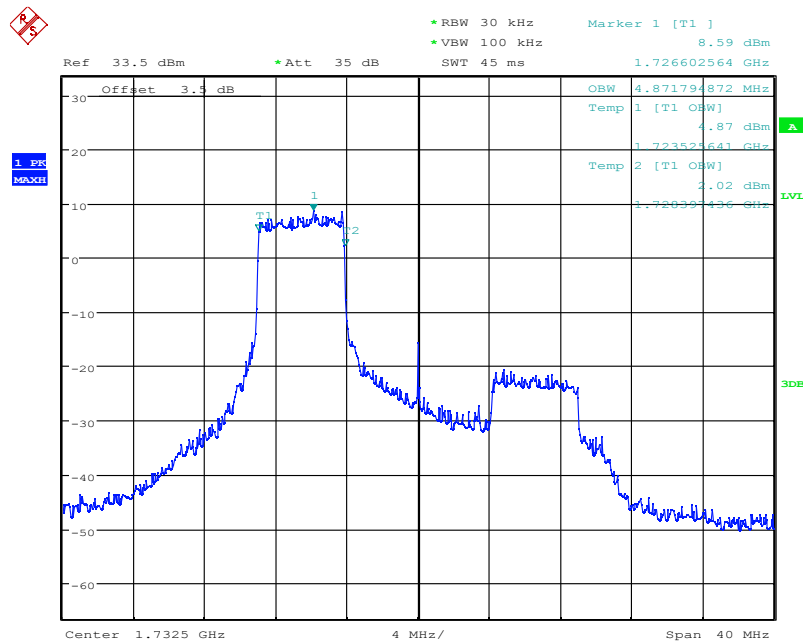


Date: 1.SEP.2021 20:51:50

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

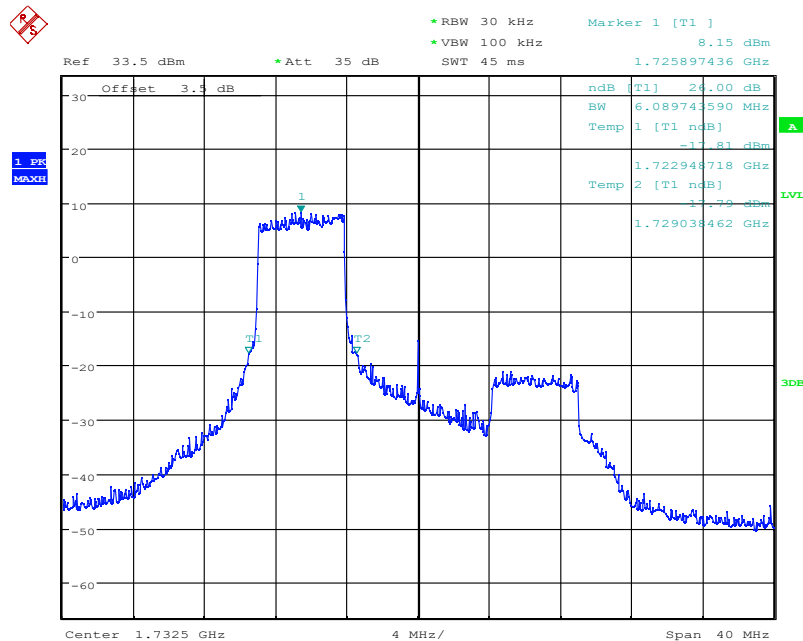
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Date: 8.SEP.2021 20:21:23

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



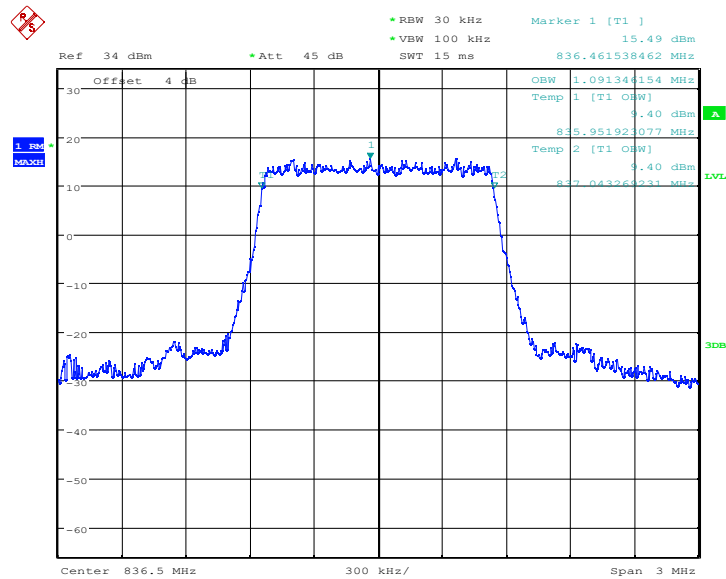
Date: 8.SEP.2021 20:21:15

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

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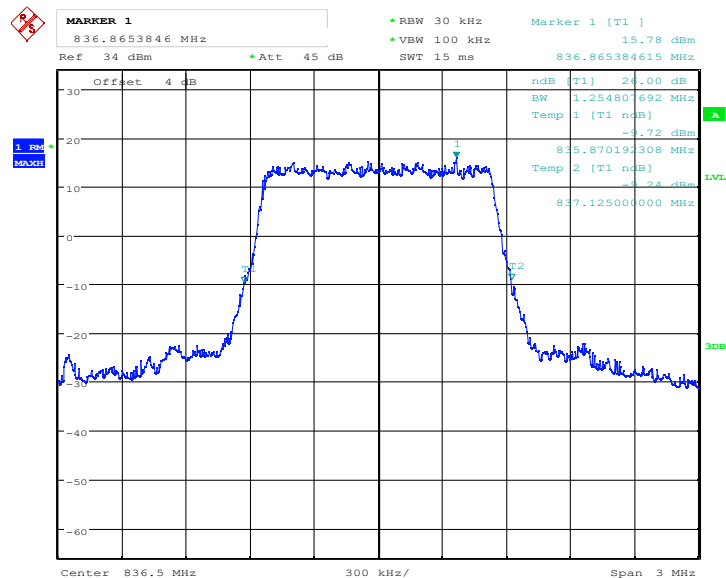
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Graphical results for LTE B5:



Date: 1.SEP.2021 20:57:17

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

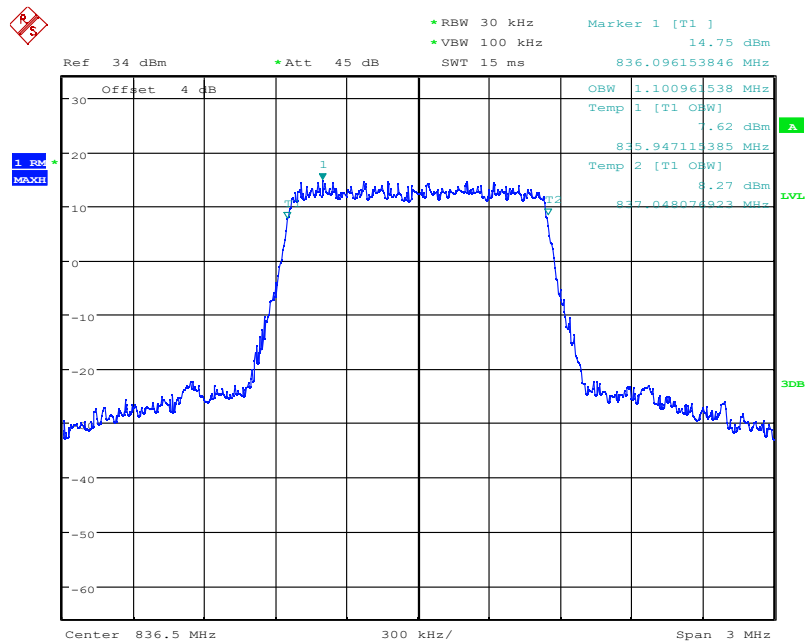


Date: 1.SEP.2021 20:57:38

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

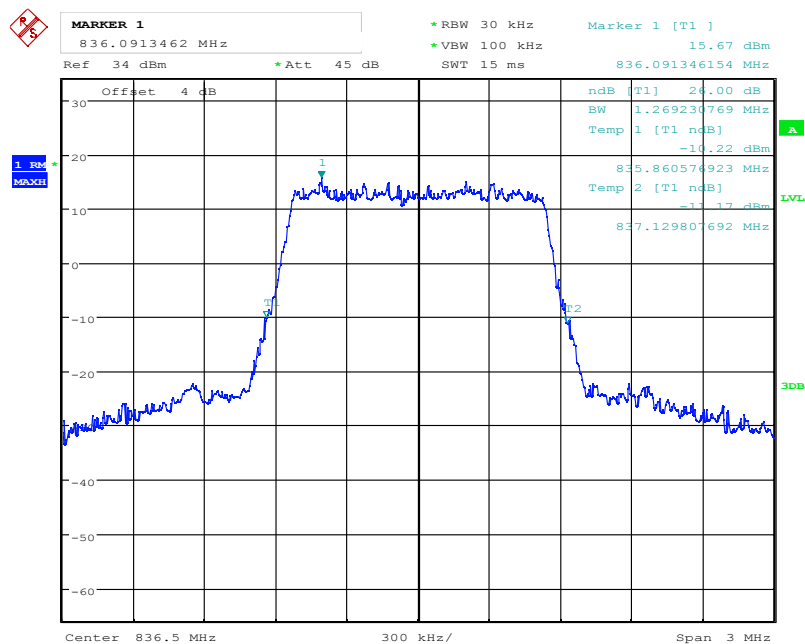
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Date: 1.SEP.2021 21:02:41

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

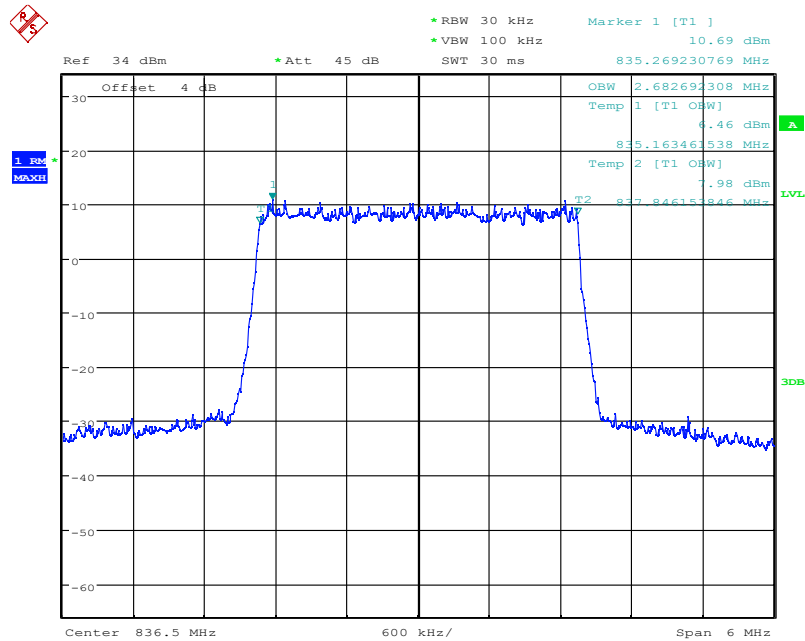


Date: 1.SEP.2021 21:03:09

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

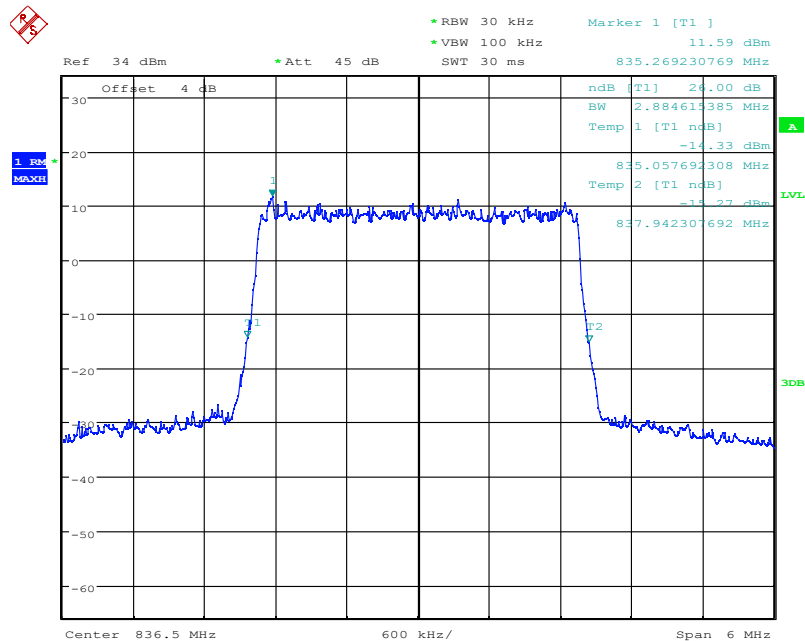
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Date: 1.SEP.2021 20:59:32

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

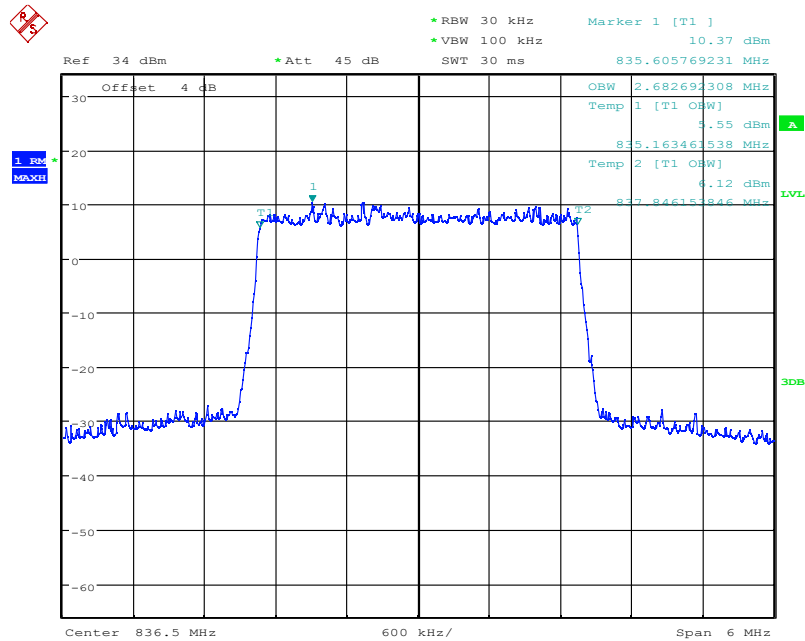


Date: 1.SEP.2021 20:58:30

LTE Band5 QPSK 16dBc Channel 20525 BW=3MHz RB=15 RB Offset=0

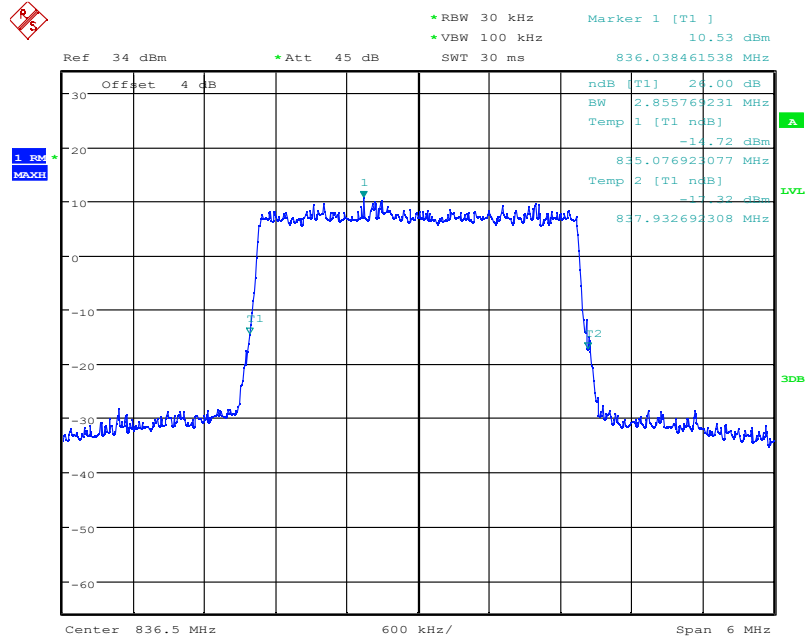
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Date: 1.SEP.2021 21:06:55

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



Date: 1.SEP.2021 21:03:45

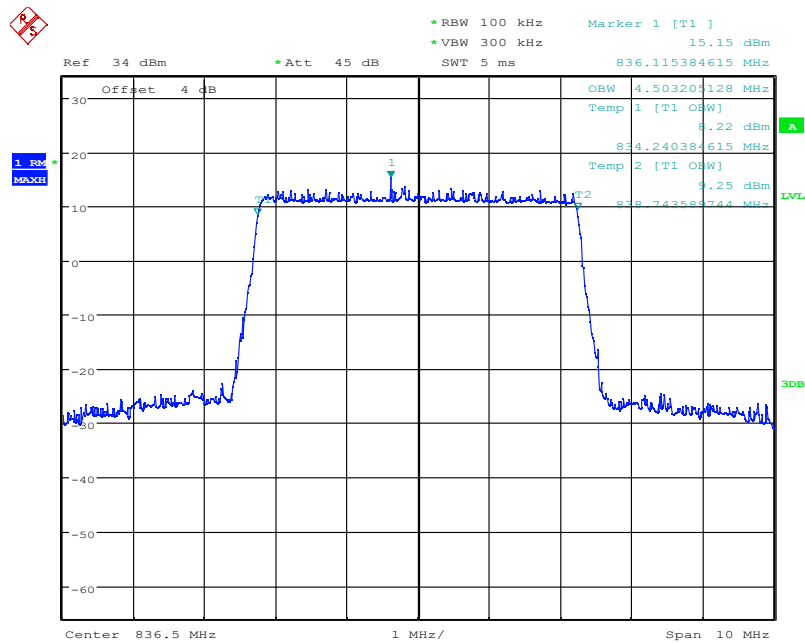
LTE Band5 16QAM -26dBc Channel 20525 BW=3MHz RB=15 RB Offset=0

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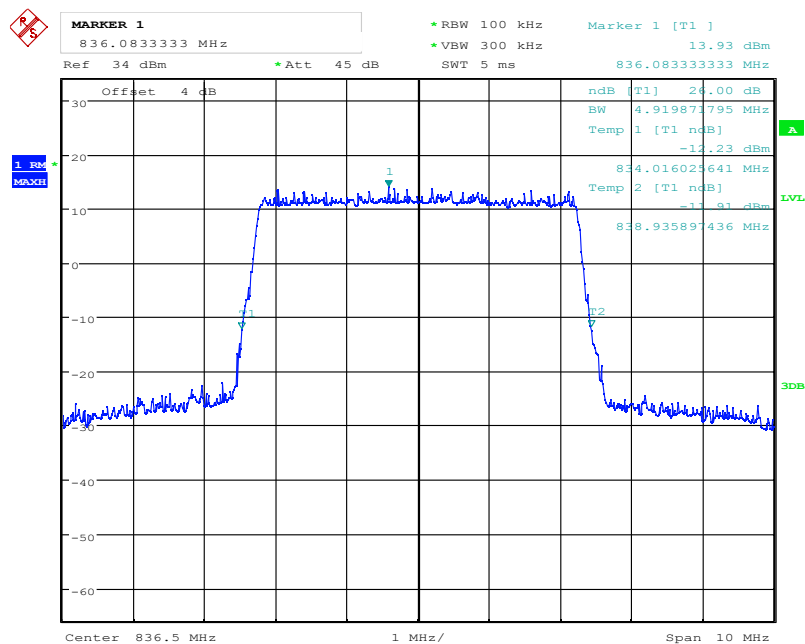


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Date: 1.SEP.2021 21:07:50

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

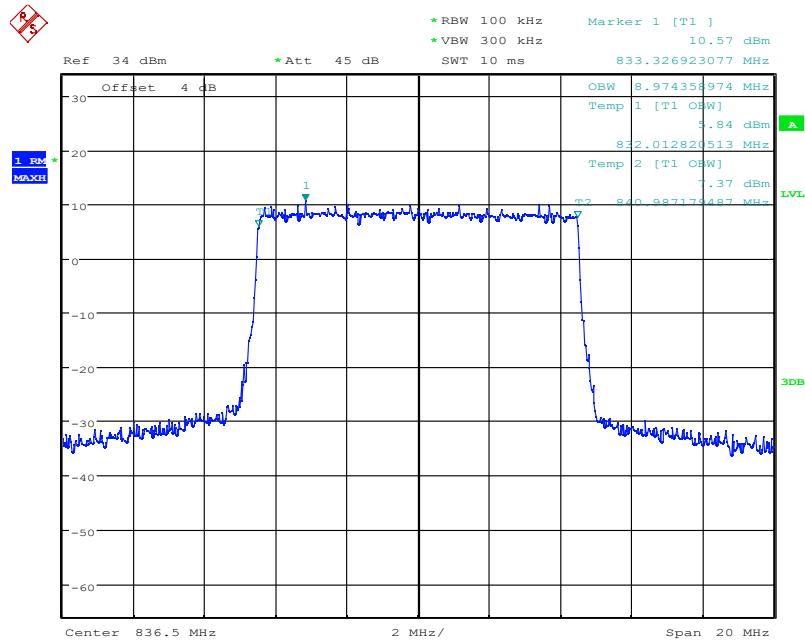


Date: 1.SEP.2021 21:08:15

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

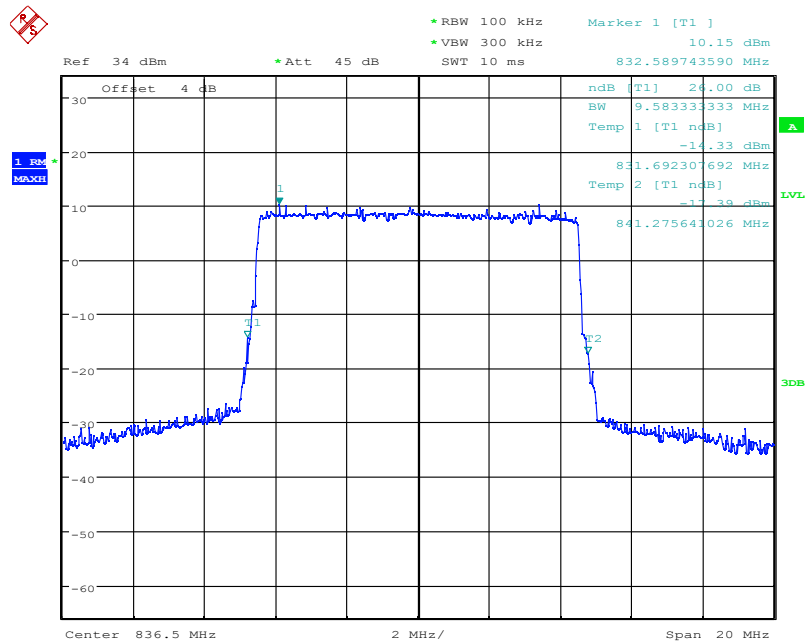
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Date: 1.SEP.2021 21:01:33

LTE Band5 QPSK 99% Channel 20525 BW=10MHz RB=50 RB Offset=0

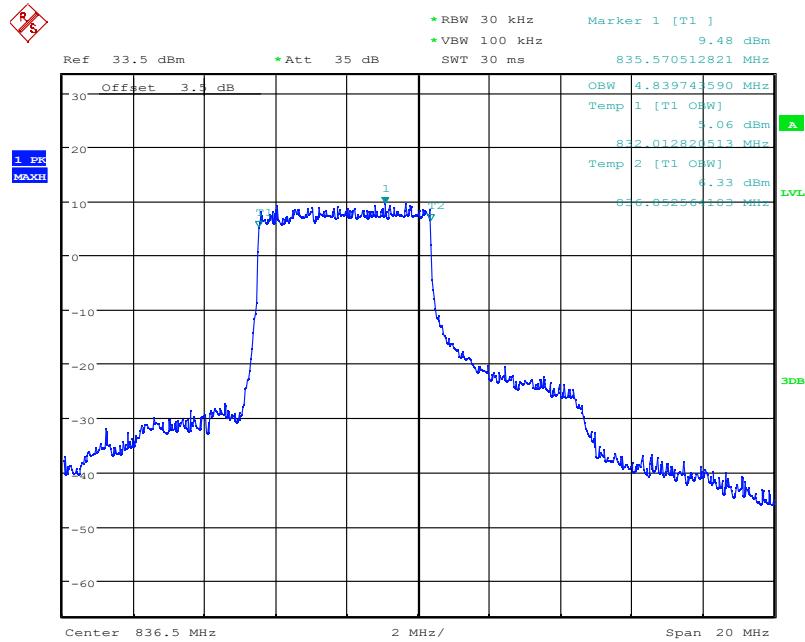


Date: 1.SEP.2021 21:01:14

LTE Band5 QPSK -26dBc Channel 20525 BW=10MHz RB=50 RB Offset=0

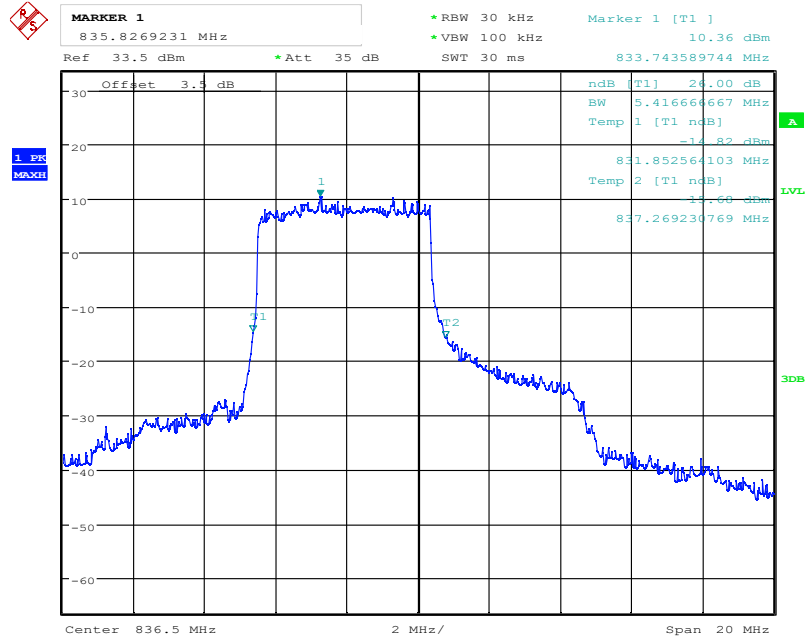
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Date: 8.SEP.2021 20:23:20

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



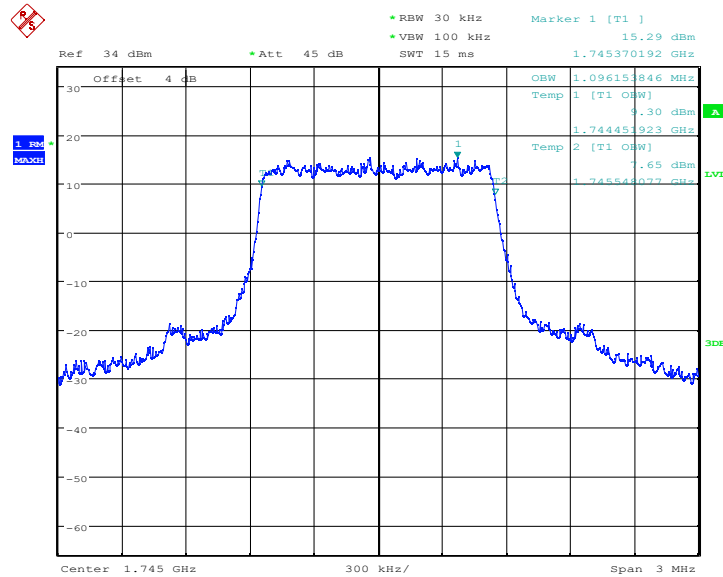
Date: 8.SEP.2021 20:23:32

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

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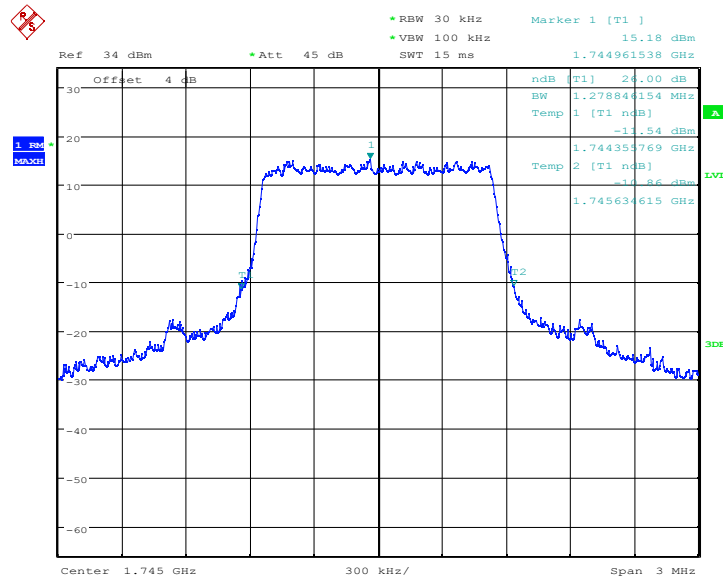
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Graphical results for LTE B66:



Date: 1.SEP.2021 21:14:54

LTE Band66 QPSK 99% Channel 132322 BW=1.4MHz RB=6 RB Offset=0

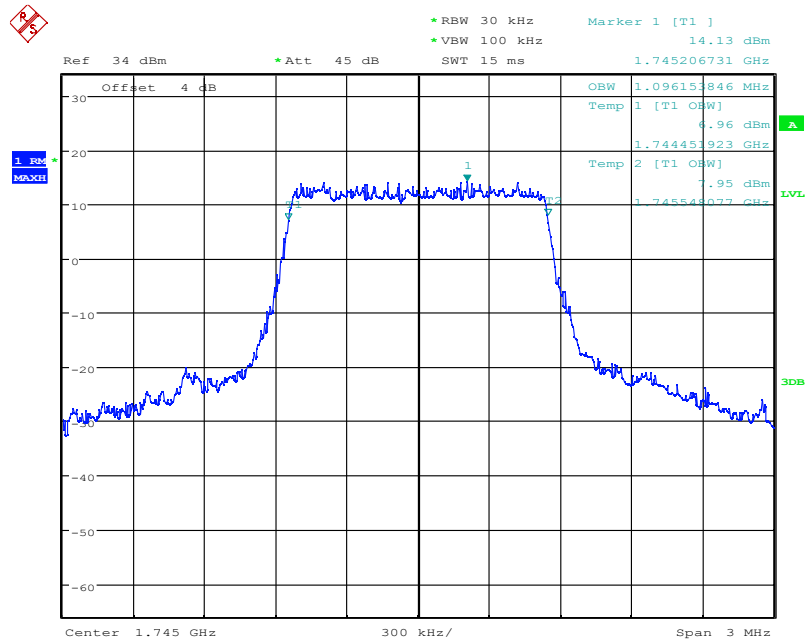


Date: 1.SEP.2021 21:14:30

LTE Band66 QPSK -26dBc Channel 132322 BW=1.4MHz RB=6 RB Offset=0

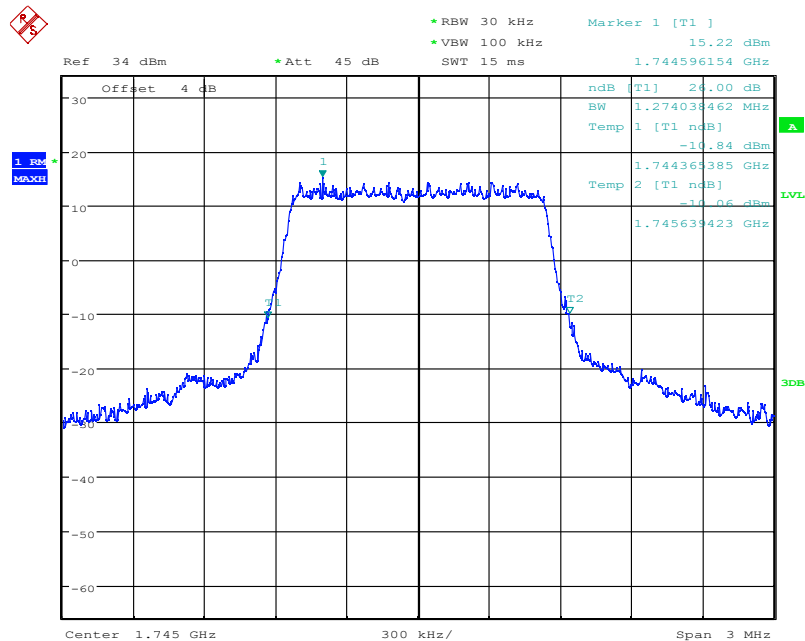
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Date: 1.SEP.2021 21:22:43

LTE Band66 16QAM 99% Channel 132322 BW=1.4MHz RB=6 RB Offset=0

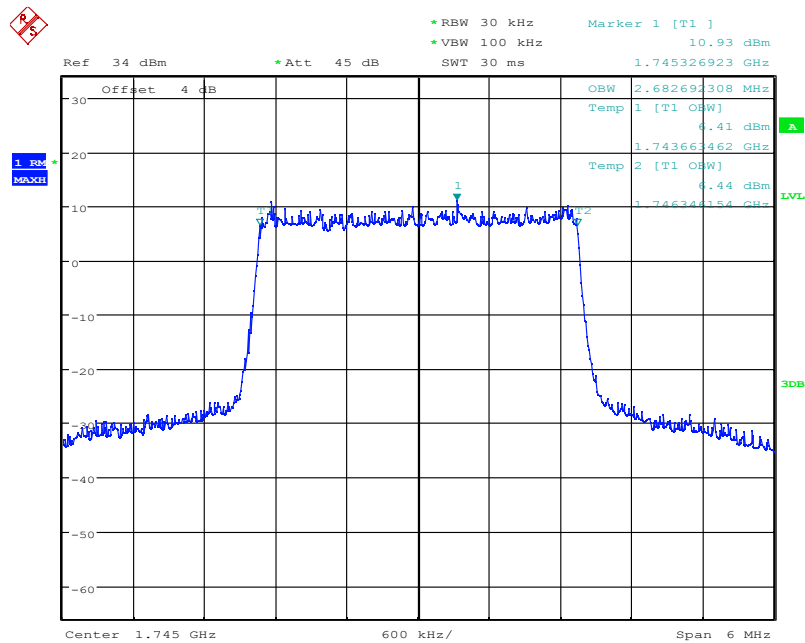


Date: 1.SEP.2021 21:22:24

LTE Band66 16QAM -26dBc Channel 132322 BW=1.4MHz RB=6 RB Offset=0

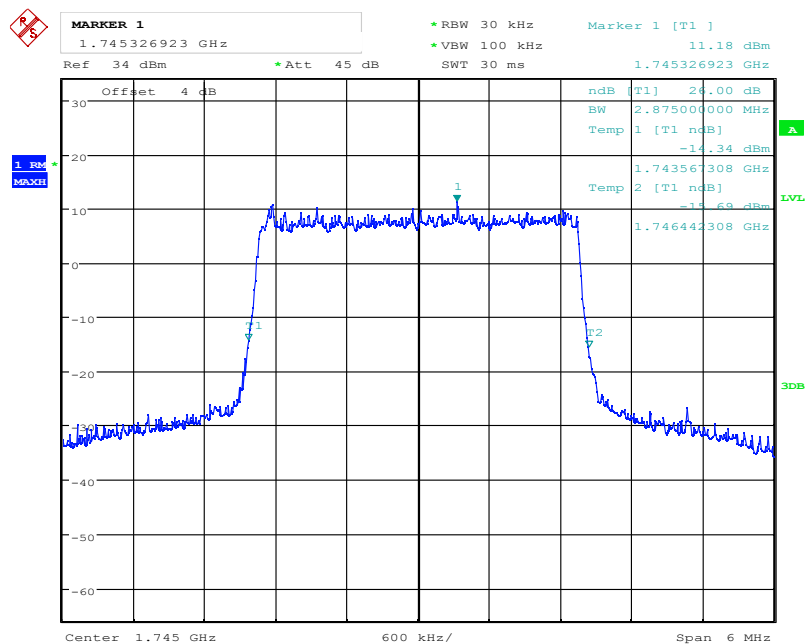
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Date: 1.SEP.2021 21:15:30

LTE Band66 QPSK 99% Channel 132322 BW=3MHz RB=15 RB Offset=0

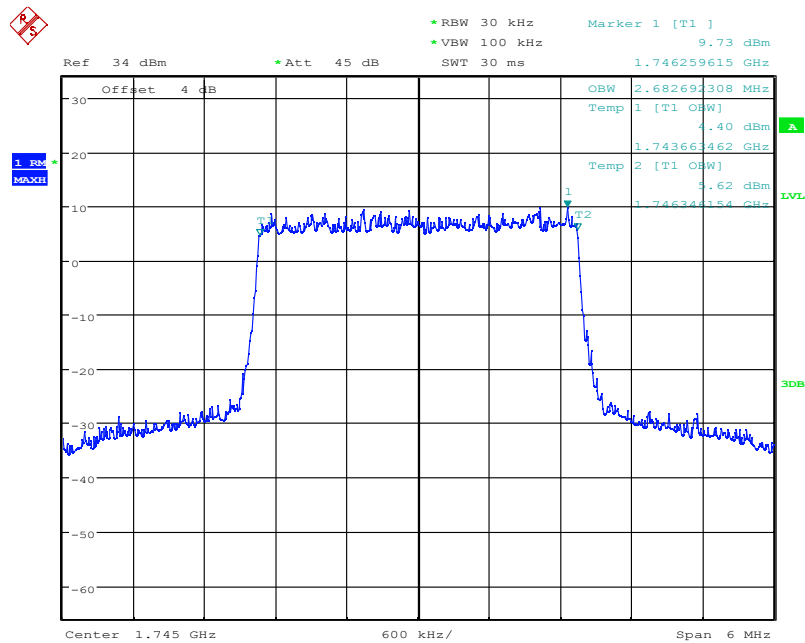


Date: 1.SEP.2021 21:15:57

LTE Band66 QPSK 26dBc Channel 132322 BW=3MHz RB=15 RB Offset=0

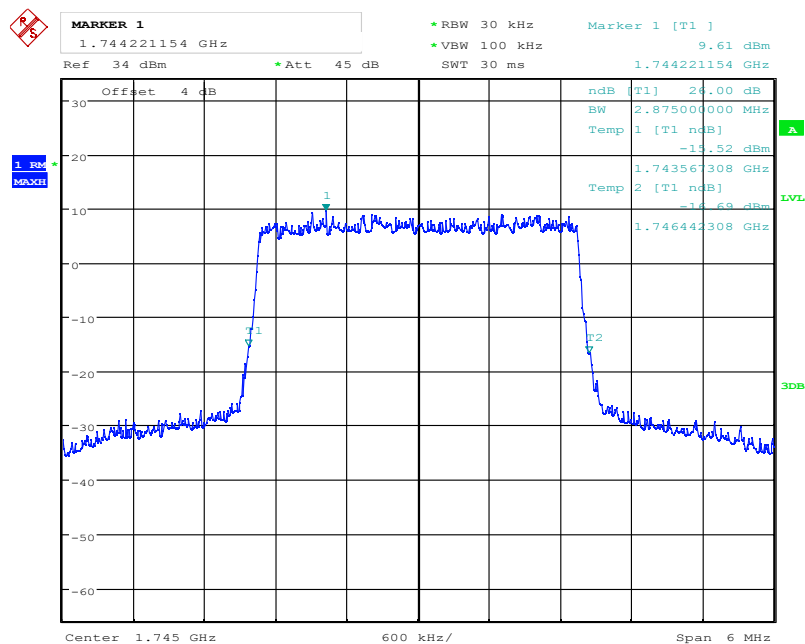
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Date: 1.SEP.2021 21:23:06

LTE Band66 16QAM 99% Channel 132322 BW=3MHz RB=15 RB Offset=0

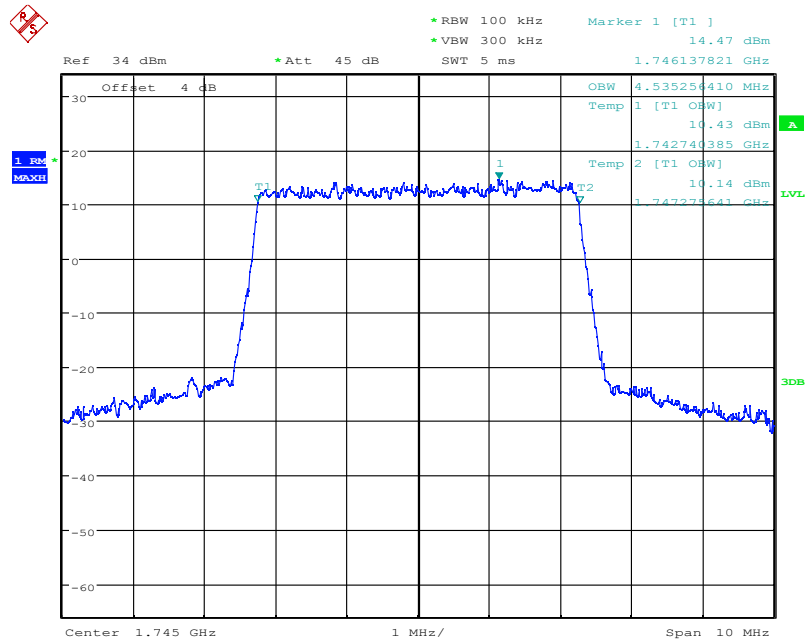


Date: 1.SEP.2021 21:23:22

LTE Band66 16QAM -26dBc Channel 132322 BW=3MHz RB=15 RB Offset=0

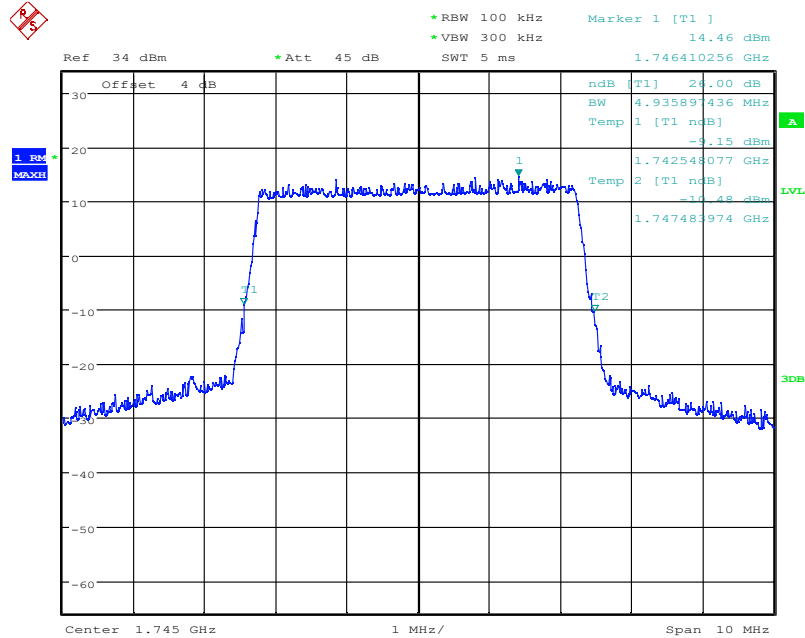
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Date: 1.SEP.2021 21:18:18

LTE Band66 QPSK 99% Channel 132322 BW=5MHz RB=25 RB Offset=0

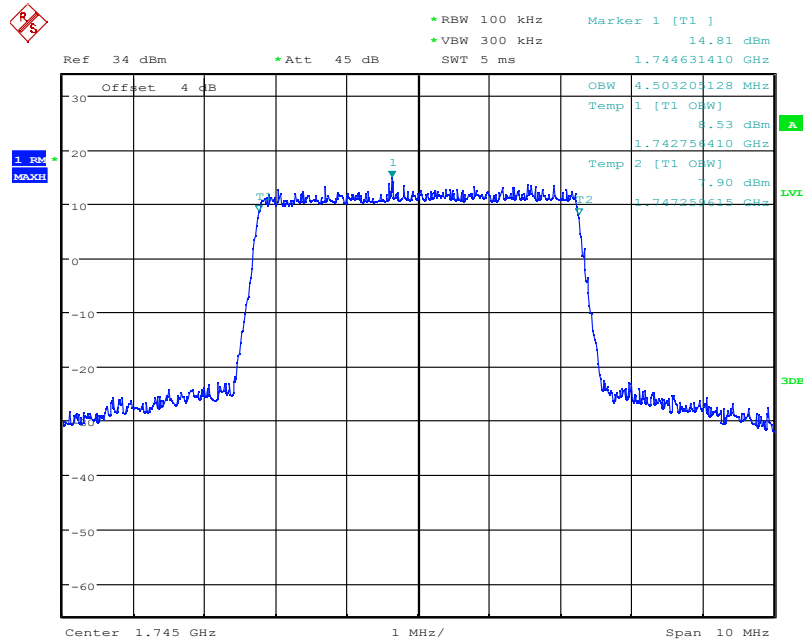


Date: 1.SEP.2021 21:16:42

LTE Band66 QPSK -26dBc Channel 132322 BW=5MHz RB=25 RB Offset=0

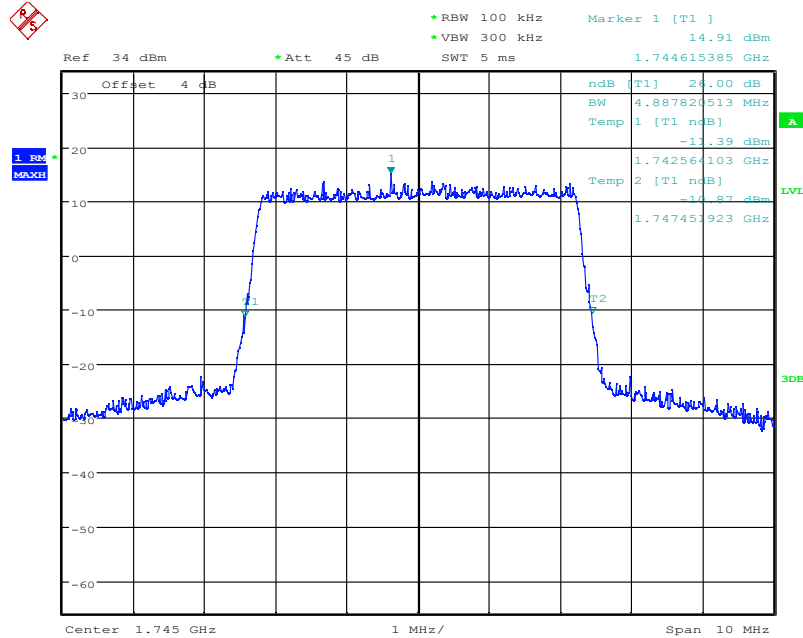
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Date: 1.SEP.2021 21:24:28

LTE Band66 16QAM 99% Channel 132322 BW=5MHz RB=25 RB Offset=0

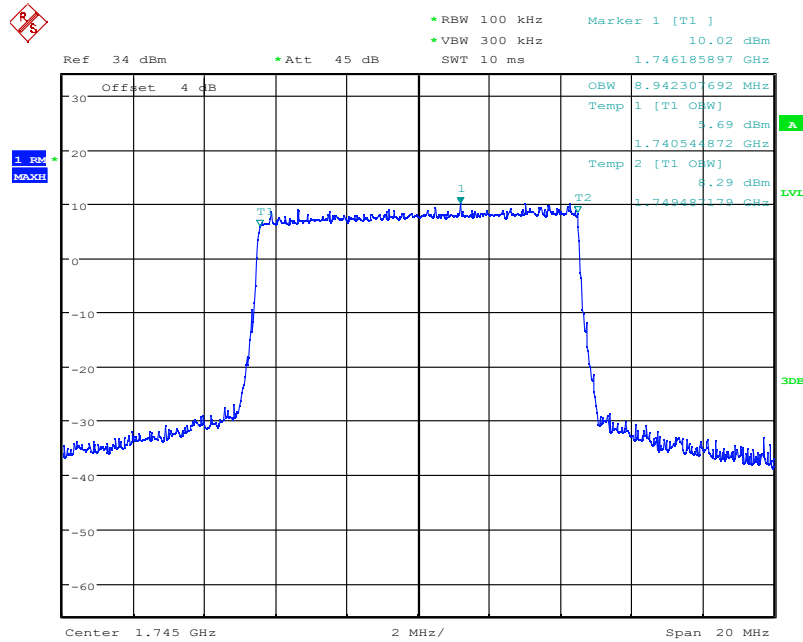


Date: 1.SEP.2021 21:24:05

LTE Band66 16QAM -26dBc Channel 132322 BW=5MHz RB=25 RB Offset=0

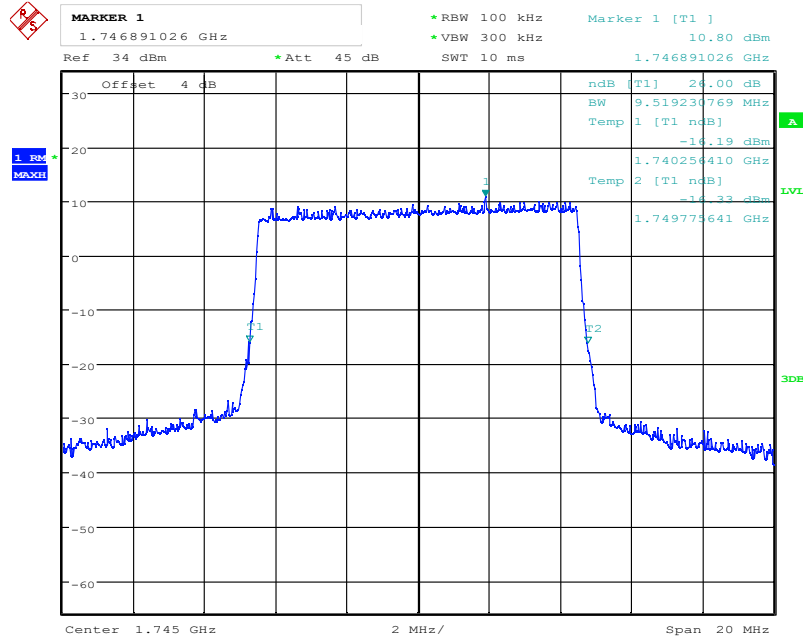
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Date: 1.SEP.2021 21:18:48

LTE Band66 QPSK 99% Channel 132322 BW=10MHz RB=50 RB Offset=0

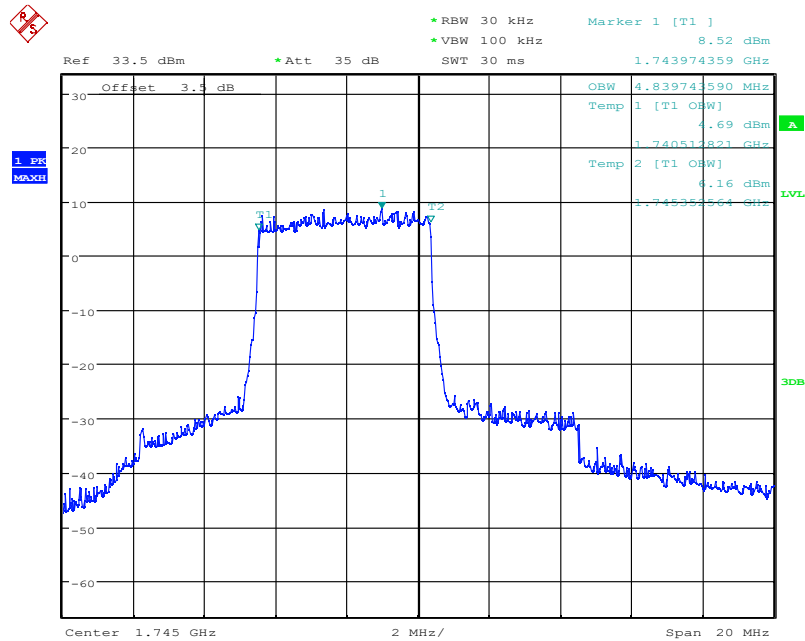


Date: 1.SEP.2021 21:19:17

LTE Band66 QPSK -26dBc Channel 132322 BW=10MHz RB=50 RB Offset=0

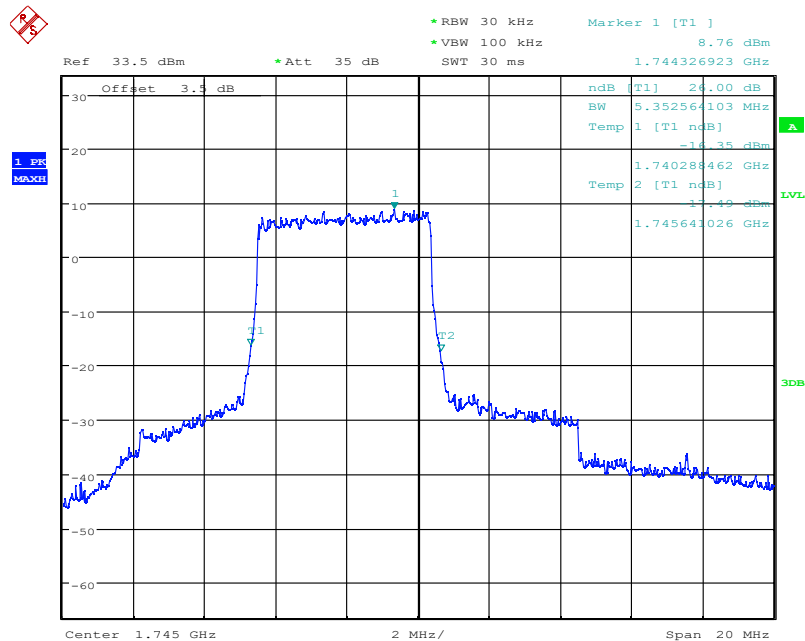
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Date: 8.SEP.2021 20:27:08

LTE Band66 16QAM 99% Channel 132322 BW=10MHz RB=27 RB Offset=0



Date: 8.SEP.2021 20:26:59

LTE Band66 16QAM -26dBc Channel 132322 BW=10MHz RB=27 RB Offset=0

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