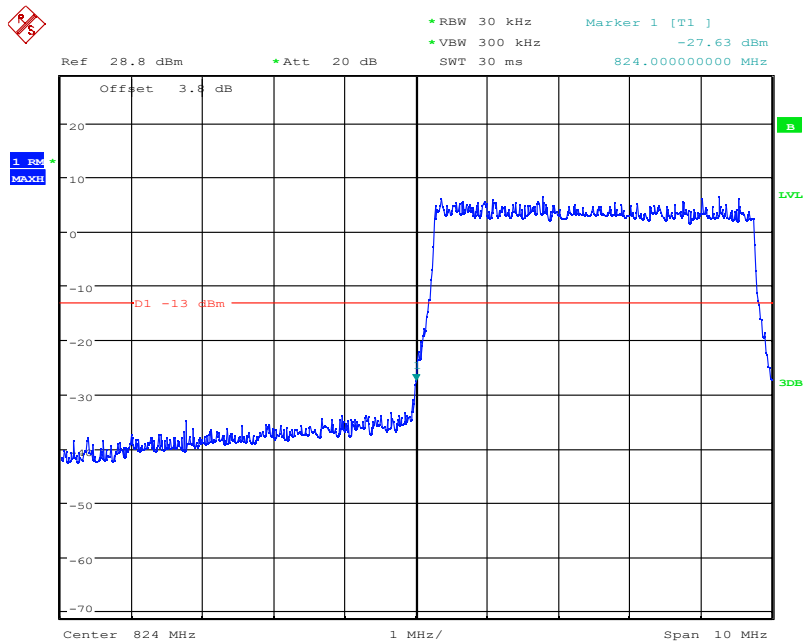


Date: 4.NOV.2021 08:50:15

LTE Band26, 5MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz

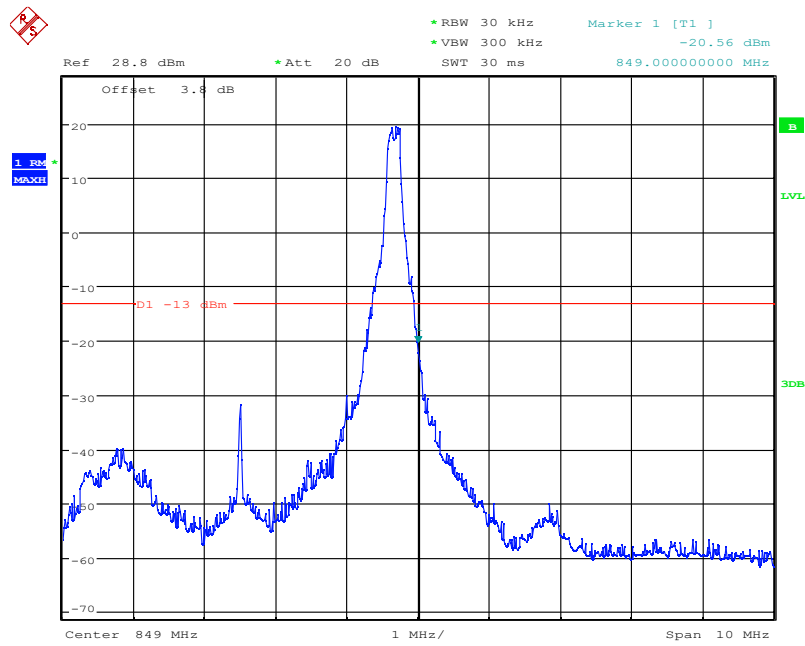


Date: 4.NOV.2021 08:50:03

LTE Band26, 5MHz bandwidth, 16QAM,(25,0) Mode , Below 824MHz

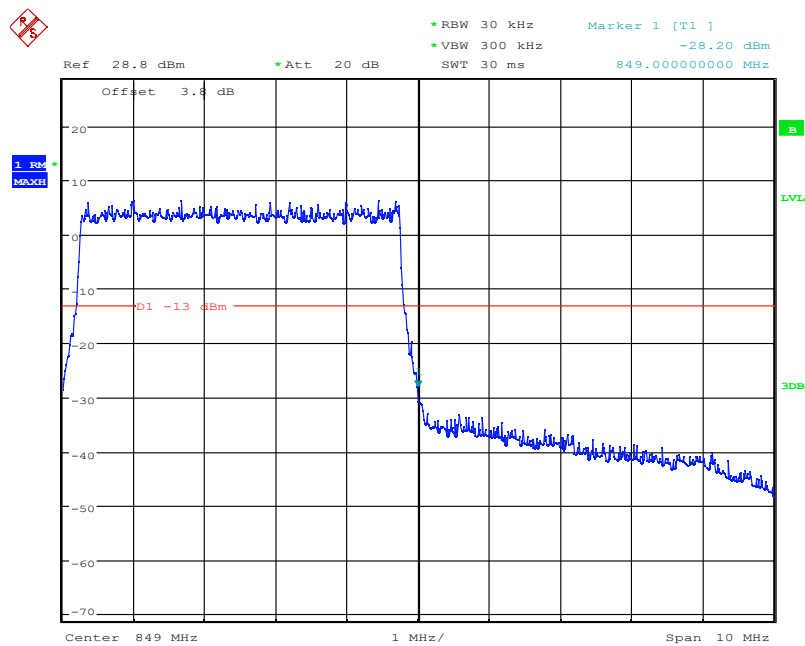
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Date: 4.NOV.2021 09:11:39

LTE Band26, 5MHz bandwidth, 16QAM,(1,25) Mode, Above 849MHz



Date: 4.NOV.2021 09:11:23

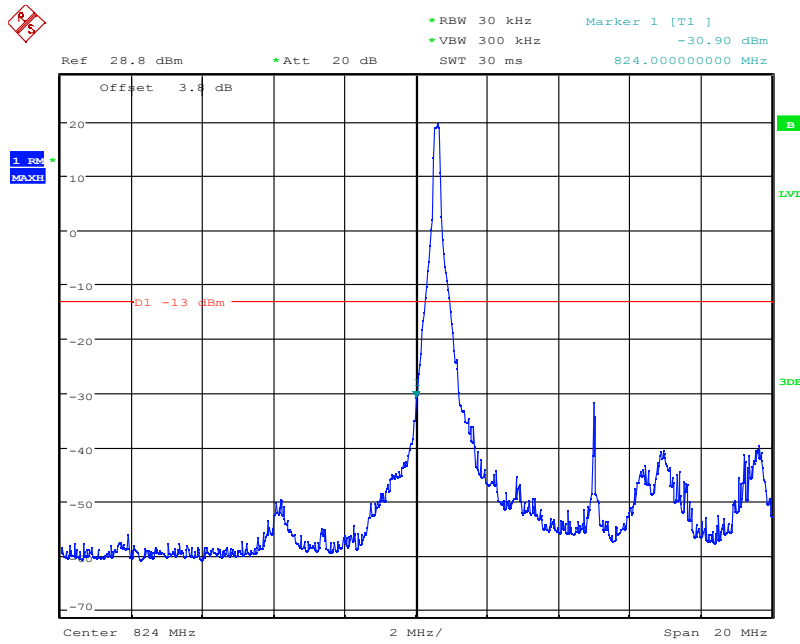
LTE Band26, 5MHz bandwidth, 16QAM,(25,0) Mode, Above 849MHz

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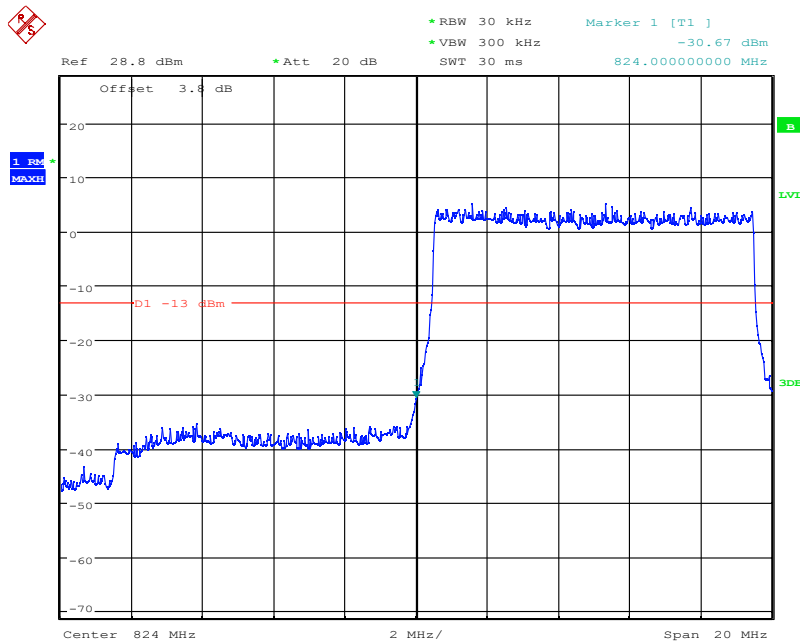


Report No.: I21W00039-WWAN\_Rev3



Date: 4.NOV.2021 08:51:38

LTE Band26, 10MHz bandwidth, QPSK,(1,0) Mode , Below 824MHz

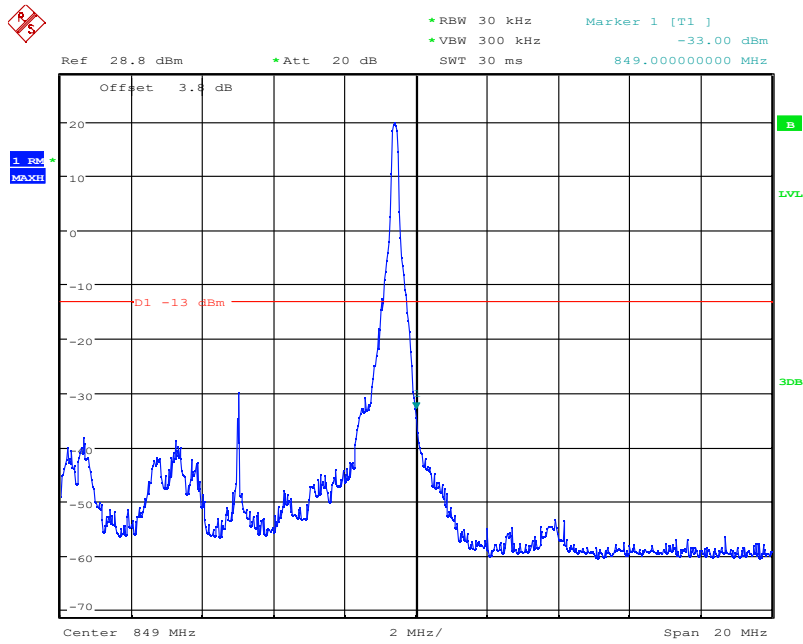


Date: 4.NOV.2021 08:52:10

LTE Band26, 10MHz bandwidth, QPSK,(50,0) Mode , Below 824MHz

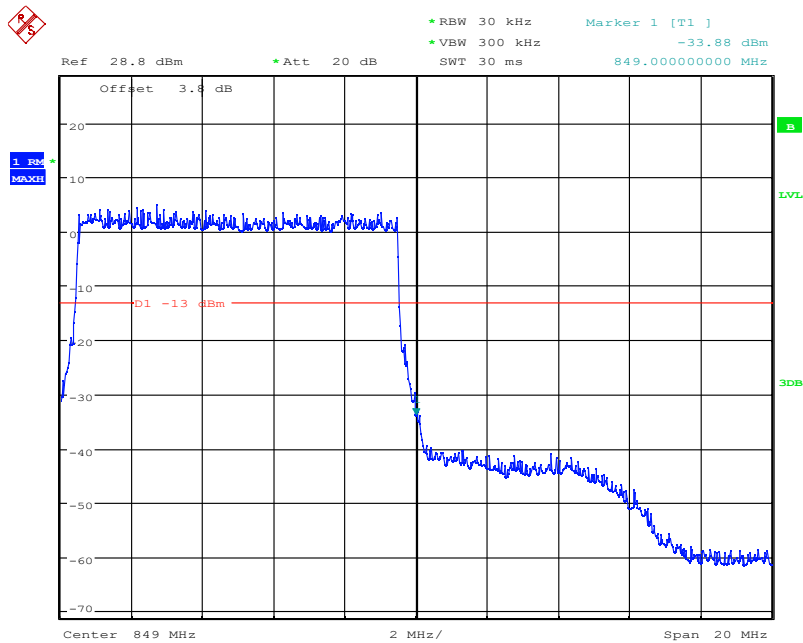
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Date: 4.NOV.2021 09:09:37

LTE Band26, 10MHz bandwidth, QPSK,(1,50) Mode, Above 849MHz



Date: 4.NOV.2021 09:09:53

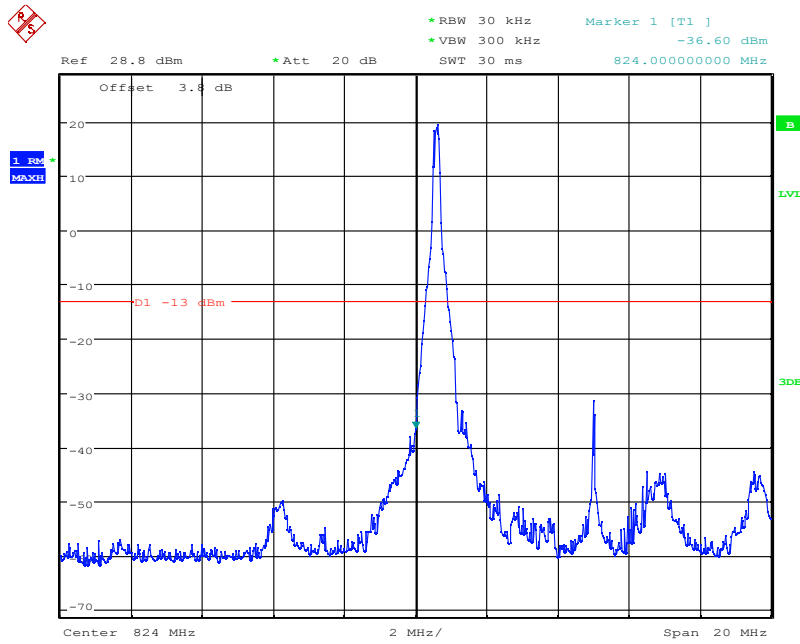
LTE Band26, 10MHz bandwidth, QPSK,(50,0) Mode, Above 849MHz

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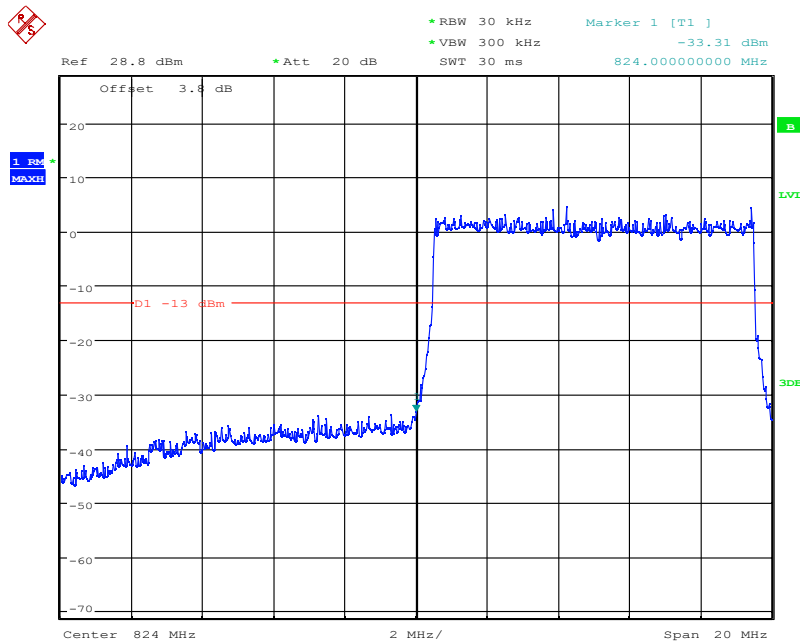


Report No.: I21W00039-WWAN\_Rev3



Date: 4.NOV.2021 08:52:35

LTE Band26, 10MHz bandwidth, 16QAM,(1,0) Mode , Below 824MHz

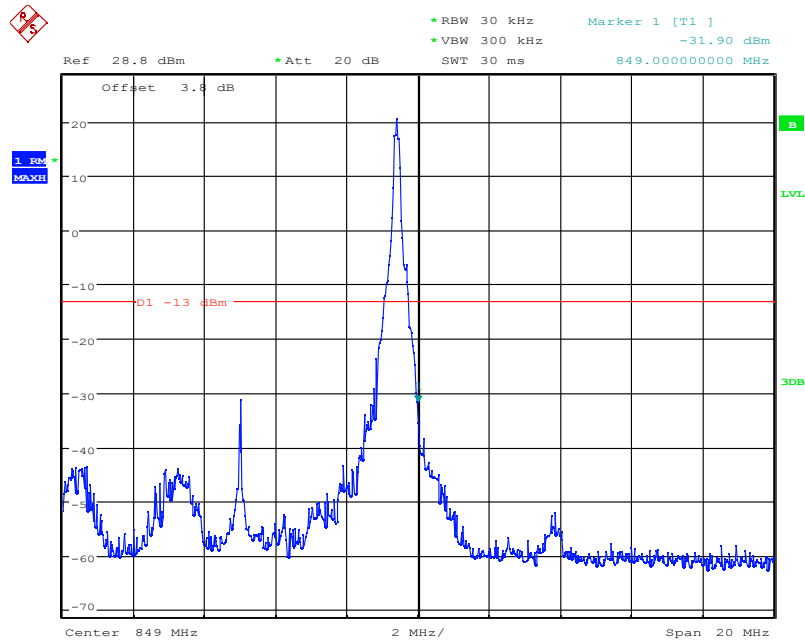


Date: 4.NOV.2021 08:52:23

LTE Band26, 10MHz bandwidth, 16QAM,(50,0) Mode , Below 824MHz

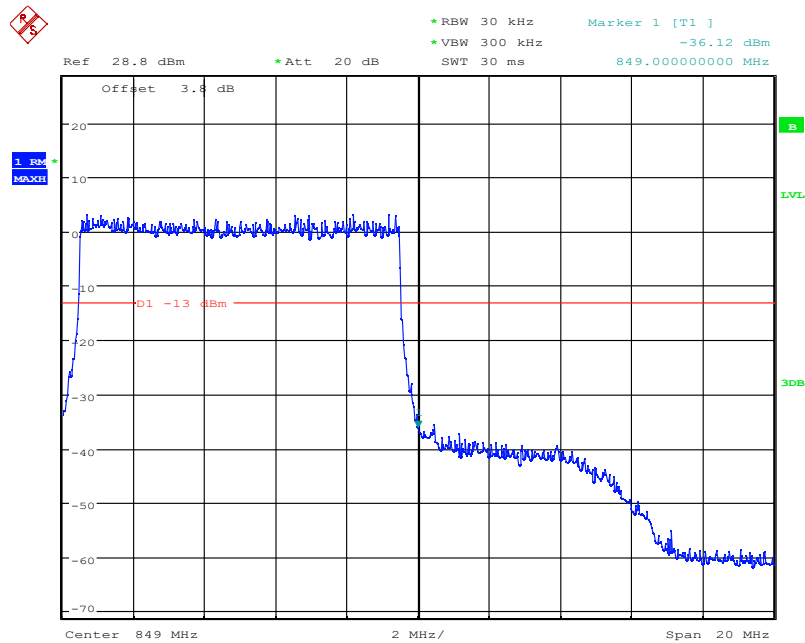
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Date: 4.NOV.2021 09:10:26

LTE Band26, 10MHz bandwidth, 16QAM,(1,50) Mode, Above 849MHz



Date: 4.NOV.2021 09:10:12

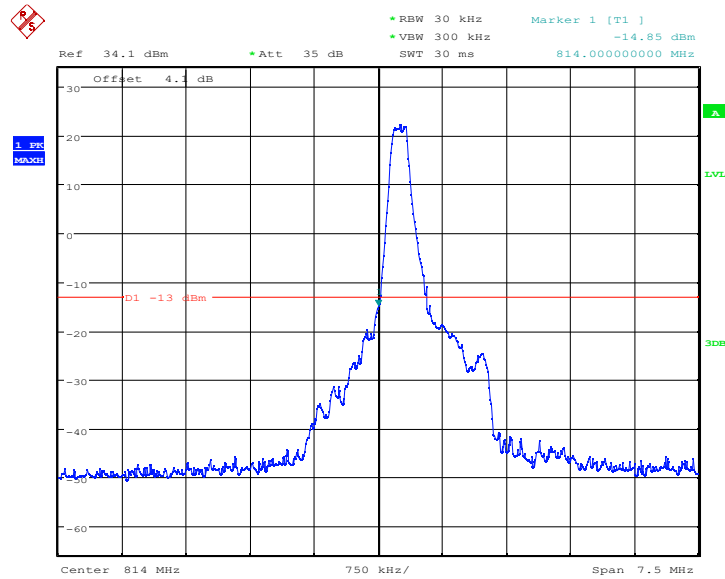
LTE Band26, 10MHz bandwidth, 16QAM,(50, 0) Mode, Above 849MHz

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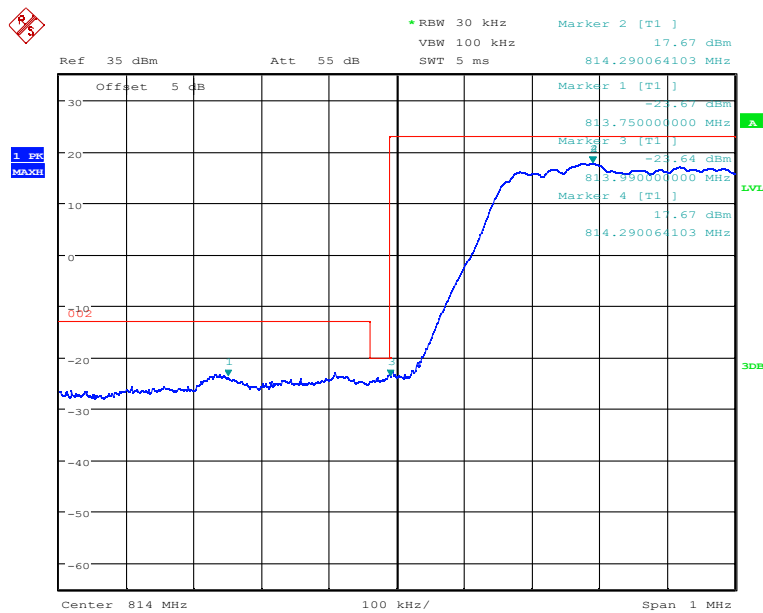
(814MHz-824MHz)

Note:It only reflects the worst data



Date: 4.NOV.2021 16:48:43

LTE Band26, 1.4MHz bandwidth, QPSK Mode , Below 814MHz

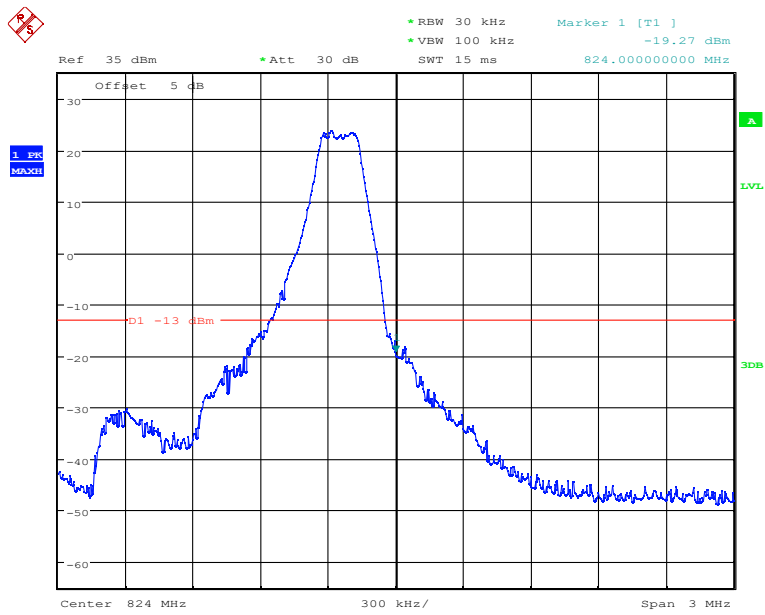


Date: 16.JAN.2022 23:30:55

LTE Band26, 1.4MHz bandwidth, QPSK Mode , Below 814MH

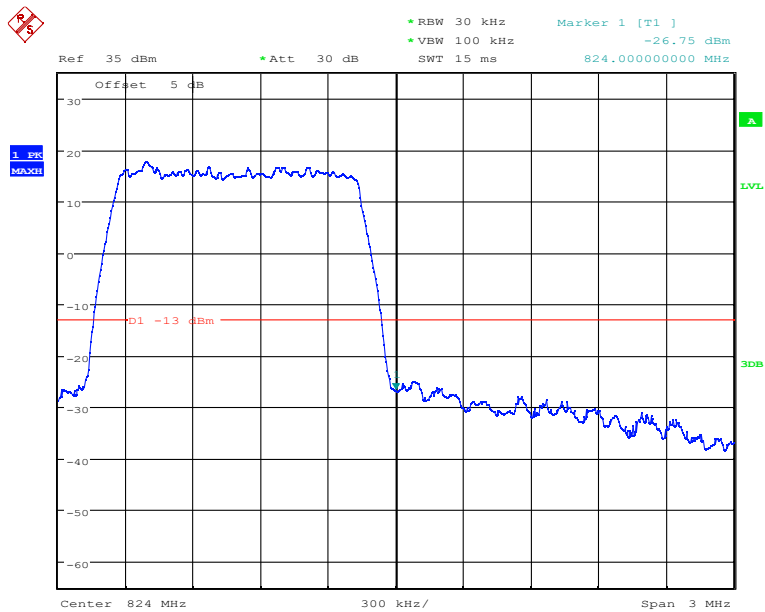
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Date: 16.JAN.2022 23:37:51

LTE Band26, 1.4MHz bandwidth, QPSK Mode, Above 849MHz



Date: 16.JAN.2022 23:37:16

LTE Band26, 1.4MHz bandwidth, QPSK Mode, Above 849MHz

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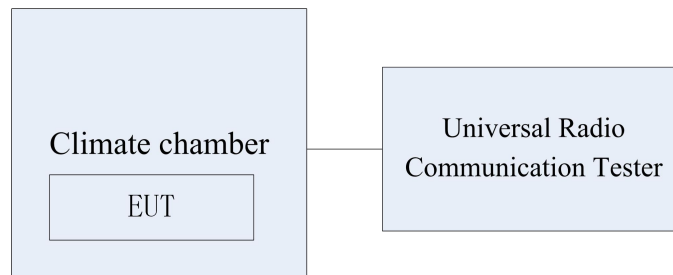
### 6.8. Frequency Stability over Temperature Variation

<b>Specifications:</b>	FCC Part 2.1055, 22.355, 24.235, 27.54, 90.213
<b>DUT Serial Number:</b>	865171050693608
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

Limit	
Frequency deviation [ppm]	±2.5

#### Test Setup

The EUT was placed in a temperature chamber, demonstrated as figure T. The Wireless Telecommunications Test Set was used to set the Tx channel and power level, modulate the TX signal with different bit patterns and measure the frequency of Tx.



#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54 Hz (k=2)

#### Test Method

- 1、 The EUT was turned off and placed in the temperature chamber.
- 2、 The temperature of the chamber was set to -30°C and allowed to stabilize.
- 3、 The EUT temperature was allowed to stabilize for 45 minutes.
- 4、 The EUT was turned on and set to transmit with Wireless Telecommunications Test Set.
- 5、 The maximum transmit frequency deviation during one minute period was measured by Wireless Communications Test Set.
- 6、 The steps 3-5 were repeated for -30°C, -20°C, -10°C, 0°C, 10°C, 20°C, 30°C, 40°C and 50°C.

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### 6.8.1 GSM Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
GSM850 GMSK	Hz	3.75	-6.48	-2.18	5.27	3.48	-6.49	5.48	7.25	4.07
	ppm	0.004	0.007	0.002	0.006	0.004	0.007	0.006	0.008	0.004
GSM850 8PSK	Hz	-7.32	5.48	6.05	5.82	-7.20	4.68	3.49	3.58	4.06
	ppm	0.008	0.006	0.007	0.006	0.008	0.005	0.004	0.004	0.004
PCS1900 GMSK	Hz	4.05	3.57	4.13	-3.48	4.28	-3.50	4.19	3.51	4.18
	ppm	0.002	0.001	0.002	0.001	0.002	0.001	0.002	0.001	0.002
PCS1900 8PSK	Hz	5.42	-4.69	5.28	4.19	6.35	5.24	2.17	3.92	5.36
	ppm	0.002	0.002	0.002	0.002	0.003	0.002	0.001	0.001	0.002

### 6.8.2 WCDMA Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	2.35	2.62	2.45	2.17	2.82	2.51	2.47	2.82	2.18
	ppm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
4	Hz	3.20	2.89	3.15	2.82	3.10	3.05	3.04	2.58	3.41
	ppm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
5	Hz	3.25	3.47	2.15	3.90	3.48	3.50	3.57	3.48	3.61
	ppm	0.004	0.004	0.002	0.004	0.004	0.004	0.004	0.004	0.004

### 6.8.3 LTE Band Frequency Stability over Temperature Variation Results

Band	Offset	Temperature[°C]								
		-30	-20	-10	0	10	20	30	40	50
2	Hz	6.72	-5.17	6.38	5.48	5.09	-6.31	5.27	5.39	5.15
	ppm	0.003	0.002	0.003	0.002	0.002	0.003	0.002	0.002	0.002
4	Hz	-7.41	-6.82	6.91	7.04	7.12	6.28	7.43	-6.48	7.75
	ppm	0.004	0.003	0.003	0.004	0.004	0.003	0.004	0.003	0.004
5	Hz	4.15	3.57	4.62	4.81	-5.29	4.18	4.50	-4.30	5.62
	ppm	0.004	0.004	0.005	0.005	0.006	0.004	0.005	0.004	0.006
7	Hz	3.48	3.17	-4.12	5.16	-3.17	5.04	4.19	5.27	4.06
	ppm	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.002	0.001
12	Hz	2.72	2.14	-4.31	2.65	5.48	5.37	5.42	3.16	5.07
	ppm	0.003	0.003	0.006	0.003	0.007	0.007	0.007	0.004	0.007
13	Hz	3.65	3.45	3.18	3.47	3.92	4.05	4.12	4.24	3.41
	ppm	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.004
17	Hz	6.84	5.91	6.47	-5.18	4.35	4.13	-4.65	3.87	4.72
	ppm	0.009	0.008	0.009	0.007	0.006	0.005	0.006	0.005	0.006
25	Hz	4.52	5.26	4.37	4.28	4.54	-5.16	4.75	3.69	3.87
	ppm	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
26 (824-849MHz)	Hz	4.15	3.57	4.62	4.81	-5.29	4.18	4.50	-4.30	5.62
	ppm	0.004	0.004	0.005	0.005	0.006	0.004	0.005	0.004	0.006
26 (814-824MHz)	Hz	-5.71	6.38	5.17	6.09	5.93	6.26	6.35	5.34	5.18
	ppm	0.006	0.007	0.006	0.007	0.006	0.007	0.007	0.006	0.006

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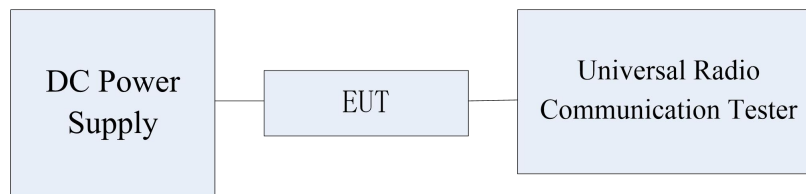
### 6.9. Frequency Stability over Voltage Variation

<b>Specifications:</b>	FCC Part 2.1055, 22.355, 24.235, 27.54, 90.213
<b>DUT Serial Number:</b>	865171050693608
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

Limit	
Frequency deviation [ppm]	±2.5

#### Test Setup

The EUT was placed in a shielding chamber and powered by an adjustable power supply, demonstrated as figure V. A Wireless Telecommunications Test Set was used to set the TX channel and power level, modulate the TX signal with different bit patterns and measure the frequency of TX.



#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	1.54Hz (k=2)

#### Test Method

The EUT was powered by the adjustable power supply. The frequency stability is measured by the Wireless Telecommunications Test Set.

### 6.9.1 GSM Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.50	3.80	4.20
GSM850 GMSK	Hz	3.75	4.26	3.83
	ppm	0.004	0.005	0.004
GSM850 8PSK	Hz	3.47	3.59	3.62
	ppm	0.004	0.004	0.004
PCS1900 GMSK	Hz	3.21	2.98	3.45
	ppm	0.001	0.001	0.001
PCS1900 8PSK	Hz	5.68	4.37	5.02
	ppm	0.003	0.002	0.003

### 5.7.2 WCDMA Band Frequency Stability over Voltage Variation Results

Test data:

Band	Offset	Voltage (V)		
		3.50	3.80	4.20
2	Hz	2.60	2.58	2.74
	ppm	0.001	0.001	0.001
4	Hz	2.26	2.22	2.30
	ppm	0.001	0.001	0.001
5	Hz	3.05	3.13	3.17
	ppm	0.003	0.003	0.003

**6.9.2 LTE Band Frequency Stability over Voltage Variation Results**

Test data:

Band	Offset	Voltage (V)		
		3.50	3.80	4.20
2	Hz	7.32	6.49	6.04
	ppm	0.003	0.003	0.003
4	Hz	-5.48	5.16	4.95
	ppm	0.003	0.003	0.002
5	Hz	9.48	7.31	-4.82
	ppm	0.011	0.008	0.005
7	Hz	8.15	5.28	4.93
	ppm	0.003	0.002	0.001
12	Hz	3.59	5.18	6.42
	ppm	0.005	0.007	0.009
13	Hz	-8.27	4.29	7.21
	ppm	0.011	0.005	0.009
17	Hz	2.48	6.58	4.28
	ppm	0.003	0.009	0.006
25	Hz	5.78	3.19	3.64
	ppm	0.003	0.001	0.001
26 (824-849MHz)	Hz	9.48	7.31	-4.82
	ppm	0.011	0.008	0.005
26 (814-824MHz)	Hz	8.25	4.15	3.72
	ppm	0.009	0.004	0.004

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### 6.10. Peak to Average Ratio

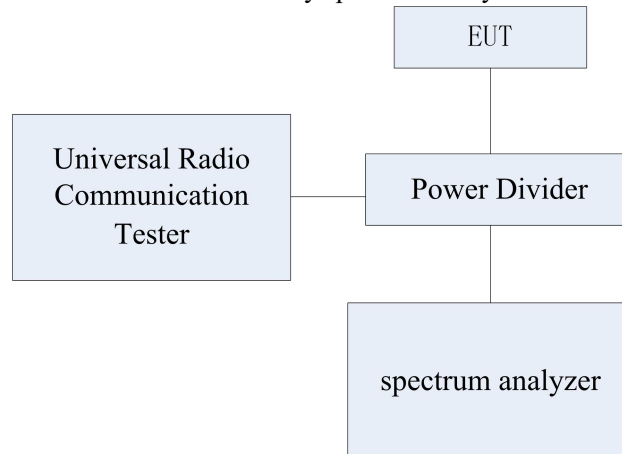
<b>Specifications:</b>	FCC Part 24.232, 27.50,
<b>DUT Serial Number:</b>	865171050693608
<b>Test conditions:</b>	Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa
<b>Test Results:</b>	Pass

#### Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

#### 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.



#### Measurement Uncertainty:

Item	Uncertainty
Expanded Uncertainty	0.62 dB (k=2)

#### Test Method

The transmitter output was connected to a CMW500 through a coaxial RF cable and directional coupler, and configured to operate at maximum power. The peak to average ratio was measured at the required operating frequencies in each Band on the Spectrum Analyzer.

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### 6.10.1 GSM850 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.6	190	GMSK	11.38
		8PSK	11.46

### 6.10.2 GSM1900 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	661	GMSK	10.47
		8PSK	10.44

### 6.10.3 WCDMA B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1880	9400	QPSK	3.63
1880	9400	16QAM	3.72

### 6.10.4 WCDMA B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
1732.5	1413	QPSK	3.70
1732.5	1413	16QAM	3.70

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### 6.10.5 WCDMA B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	Modulation	Peak to Average Ratio
836.4	4182	QPSK	3.48
836.4	4182	16QAM	3.50

### 6.10.6 LTE B2 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1880	18900	10MHz	QPSK	5.59
			16QAM	7.40

### 6.10.7 LTE B4 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1732.5	20175	10MHz	QPSK	5.49
			16QAM	7.07

### 6.10.8 LTE B5 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
836.5	20525	10MHz	QPSK	5.32
			16QAM	6.83

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### 6.10.9 LTE B7 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
2535	21100	10MHz	QPSK	5.43
			16QAM	6.84

### 6.10.10 LTE B12 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
707.5	23095	10MHz	QPSK	5.83
			16QAM	7.39

### 6.10.11 LTE B13 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
782	23230	10MHz	QPSK	6.37
			16QAM	7.87

### 6.10.12 LTE B17 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
710	23790	10MHz	QPSK	5.89
			16QAM	7.55

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### 6.10.13 LTE B25 Peak to Average Ratio Results

Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
1882.5	26365	10MHz	QPSK	5.69
			16QAM	7.20

### 6.10.14 LTE B26 Peak to Average Ratio Results

(824MHz-849MHz)

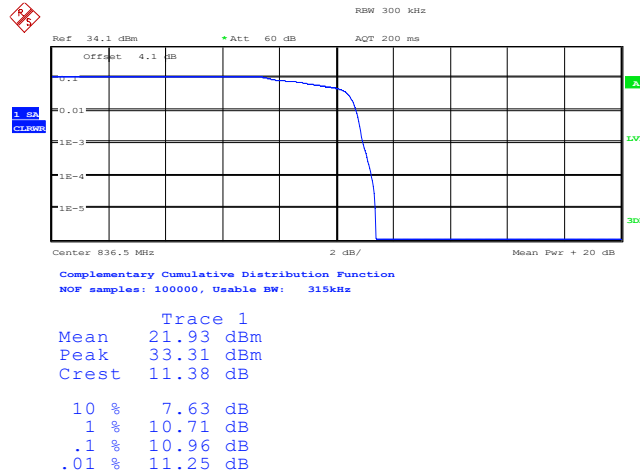
Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
836.5	20525	10MHz	QPSK	5.32
			16QAM	6.83

(814MHz-824MHz)

Note:It only reflects the worst data

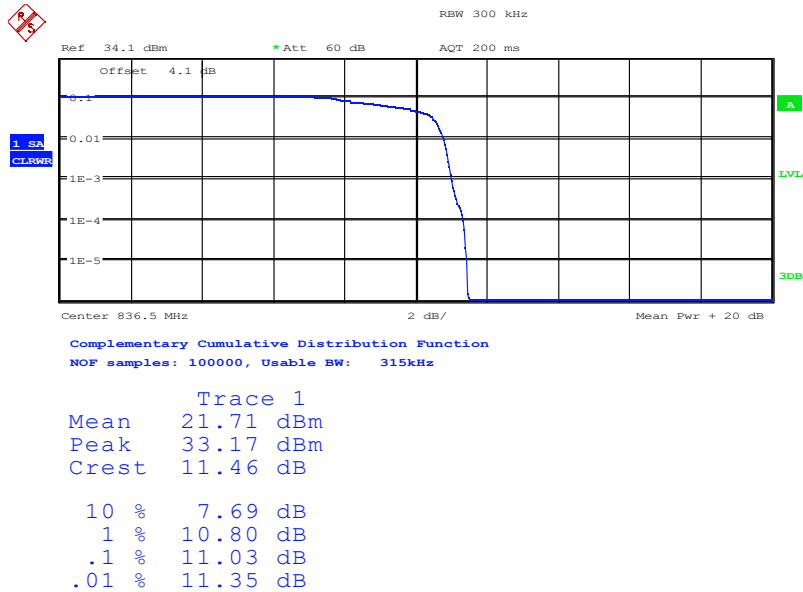
Frequency (MHz)	EUT channel No.	bandwidth	Modulation	Peak to Average Ratio
819	26865	10MHz	QPSK	6.09
			16QAM	7.40

Graphical for Peak to Average Ratio Results



Date: 5.NOV.2021 12:05:16

GSM850, GMSK

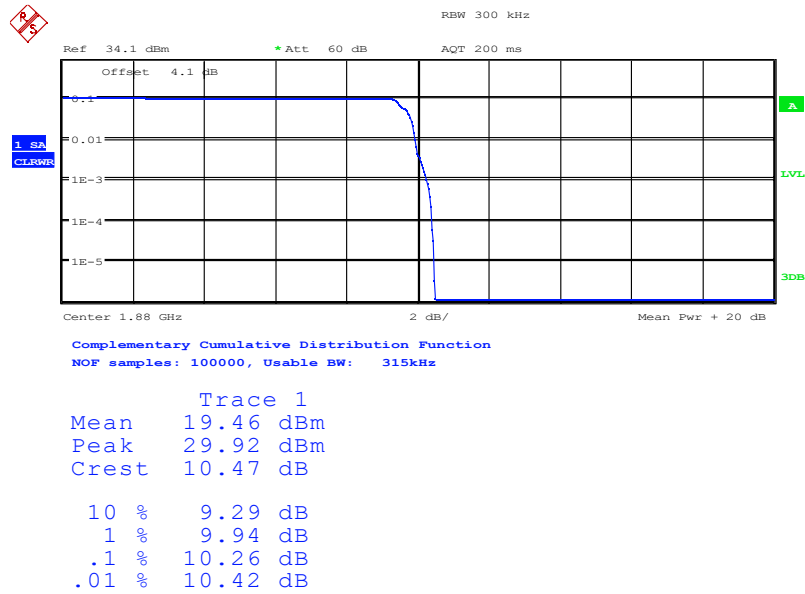


Date: 5.NOV.2021 12:07:11

GSM850, 8PSK

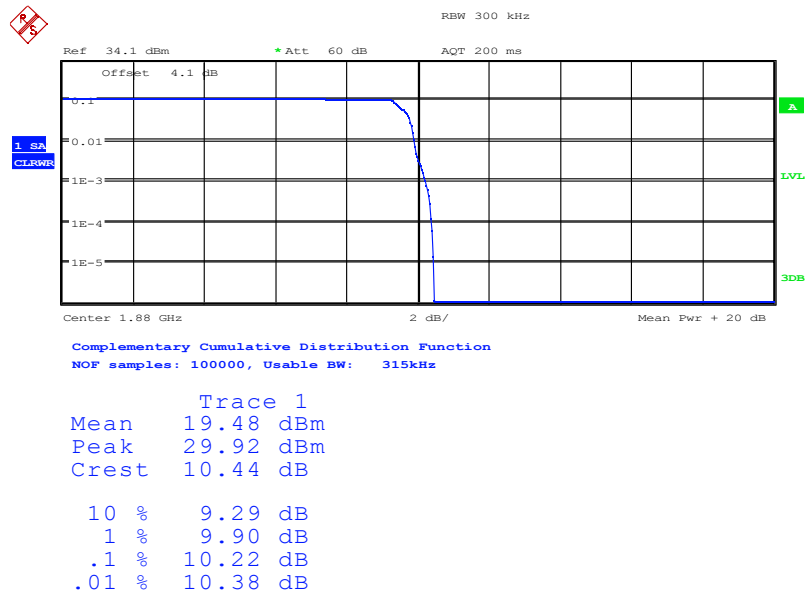
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Date: 5.NOV.2021 12:10:03

PCS1900, GMSK



Date: 5.NOV.2021 12:09:20

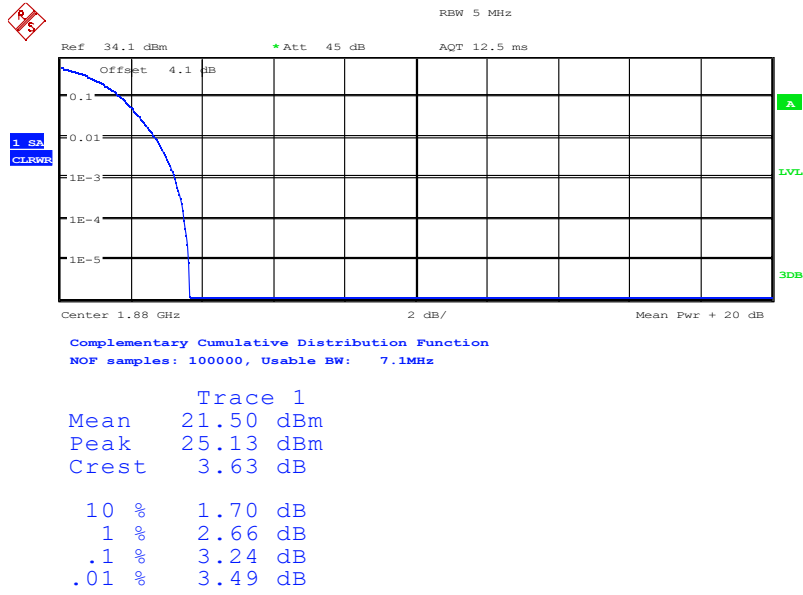
PCS1900, 8PSK

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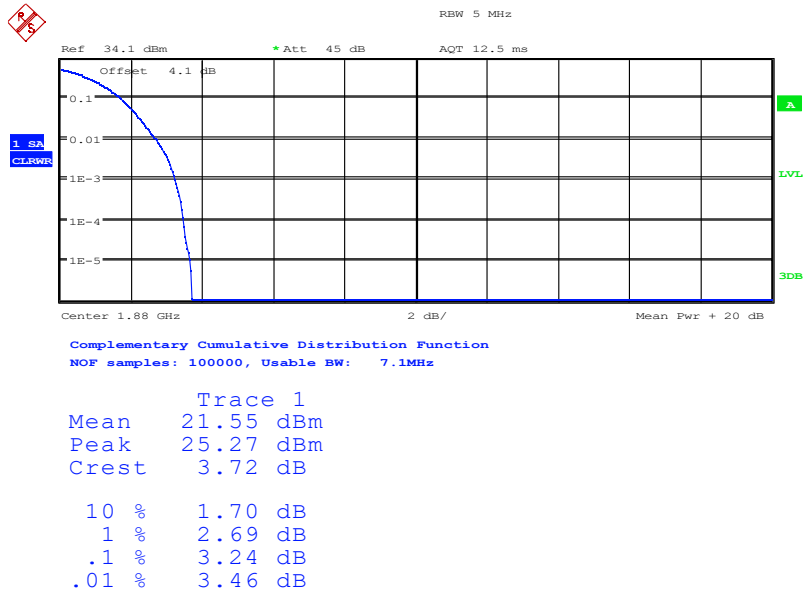


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Date: 5.NOV.2021 12:13:14

WCDMA B2, QPSK



Date: 5.NOV.2021 12:13:40

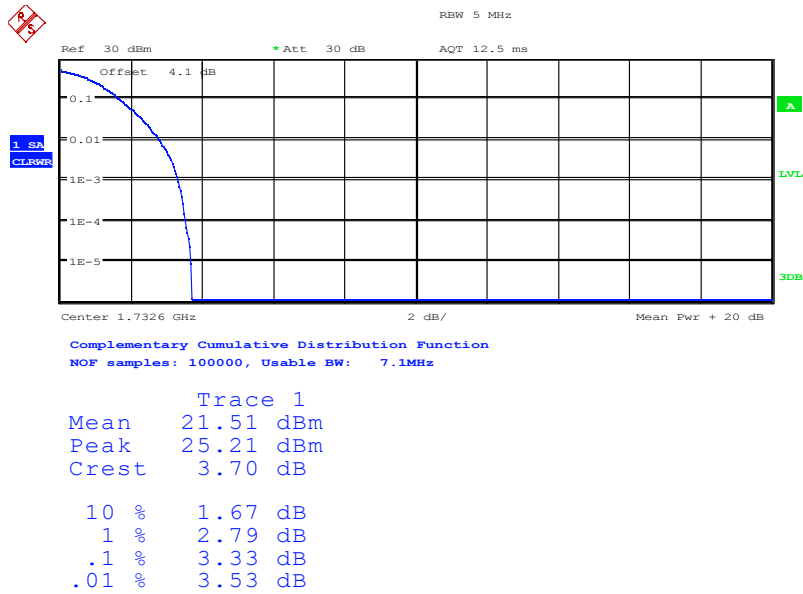
WCDMA B2, 16QAM

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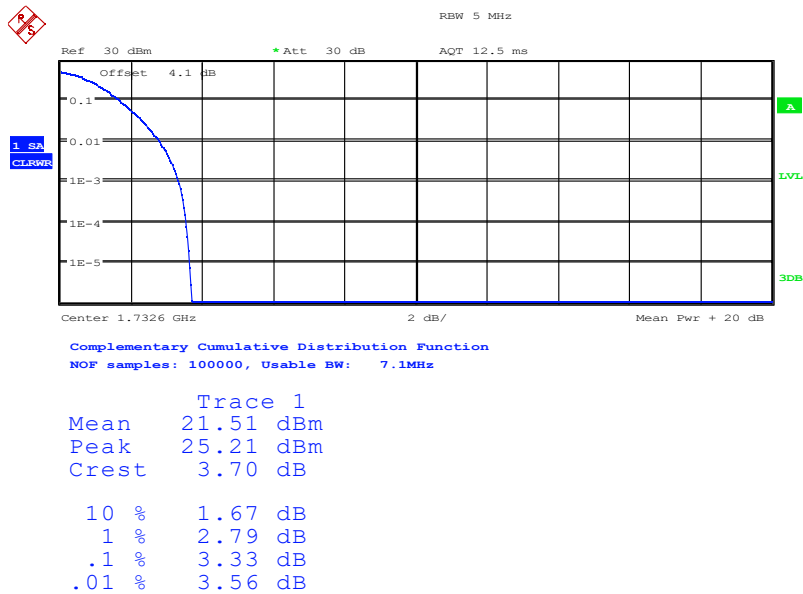


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Date: 8.NOV.2021 20:27:00

## WCDMA B4, QPSK



Date: 8.NOV.2021 20:26:39

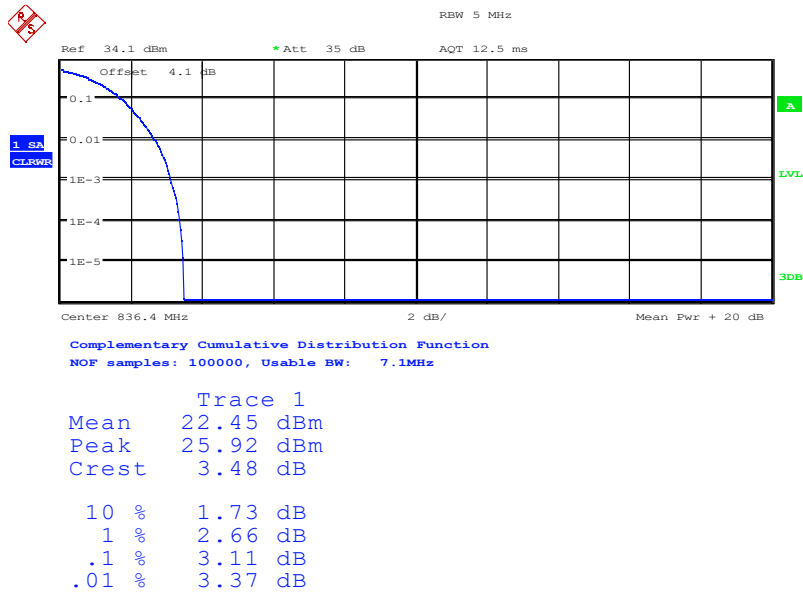
## WCDMA B4, 16QAM

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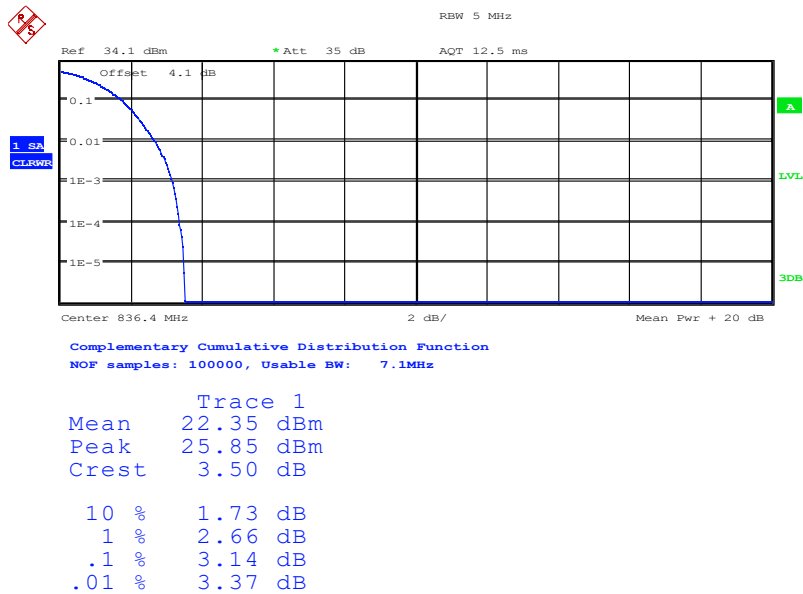


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Date: 5.NOV.2021 12:14:57

## WCDMA B5, QPSK



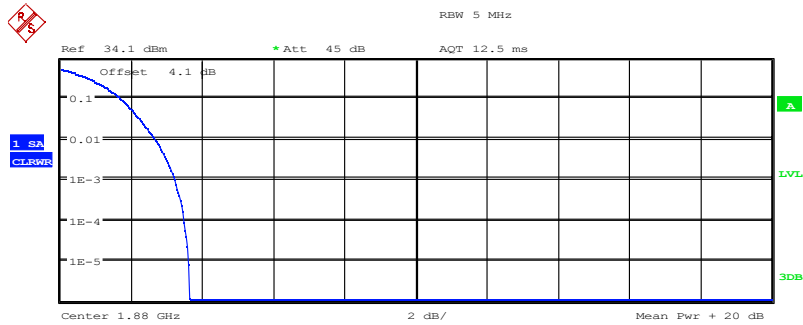
Date: 5.NOV.2021 12:15:14

## WCDMA B5, 16QAM

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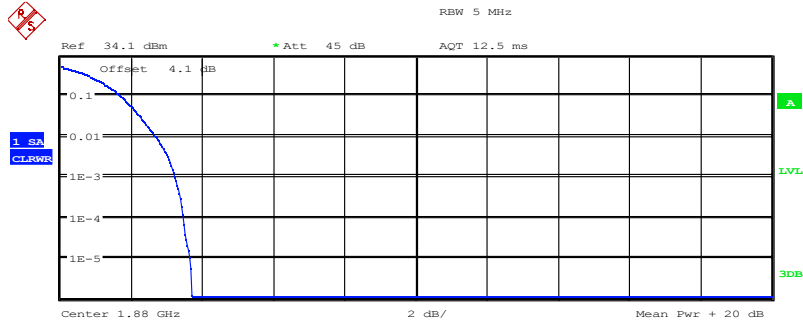
Complementary Cumulative Distribution Function  
 NOF samples: 100000, Usable BW: 7.1MHz

Trace 1  
 Mean 21.50 dBm  
 Peak 25.13 dBm  
 Crest 3.63 dB

10 % 1.70 dB  
 1 % 2.66 dB  
 .1 % 3.24 dB  
 .01 % 3.49 dB

Date: 5.NOV.2021 12:13:14

### LTE Band2, QPSK



Complementary Cumulative Distribution Function  
 NOF samples: 100000, Usable BW: 7.1MHz

Trace 1  
 Mean 21.55 dBm  
 Peak 25.27 dBm  
 Crest 3.72 dB

10 % 1.70 dB  
 1 % 2.69 dB  
 .1 % 3.24 dB  
 .01 % 3.46 dB

Date: 5.NOV.2021 12:13:40

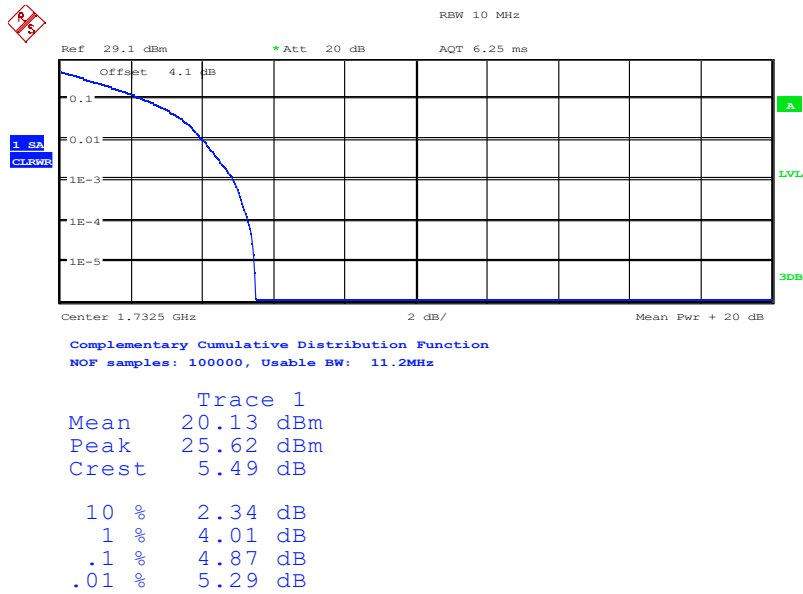
### LTE Band2, 16QAM

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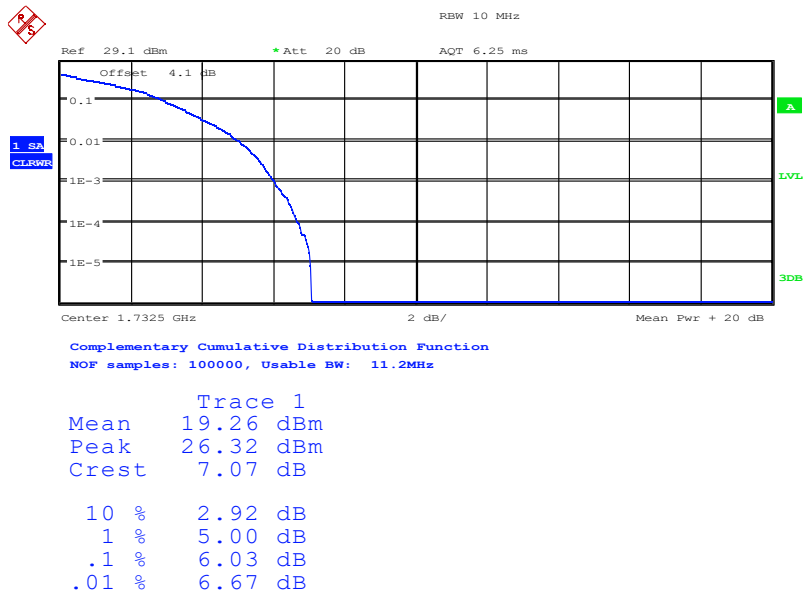


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Date: 5.NOV.2021 12:34:07

## LTE Band4, QPSK



Date: 5.NOV.2021 12:33:53

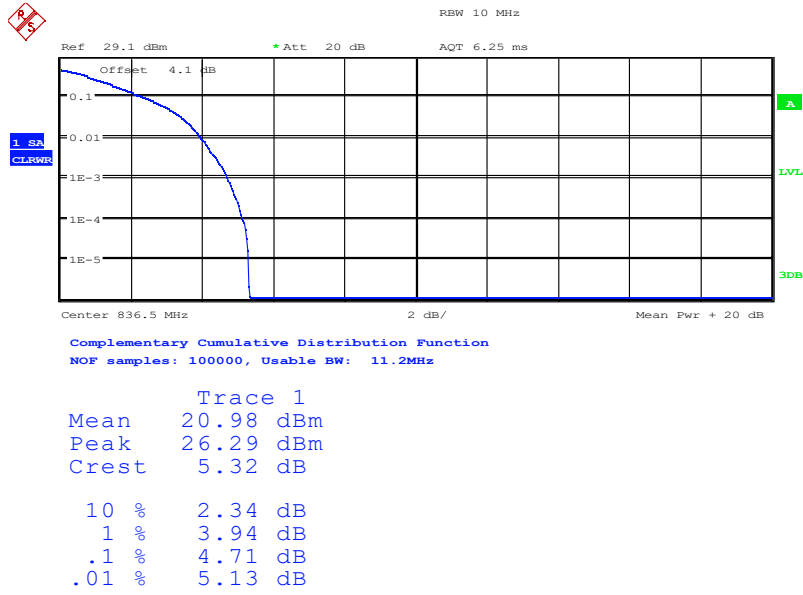
## LTE Band4, 16QAM

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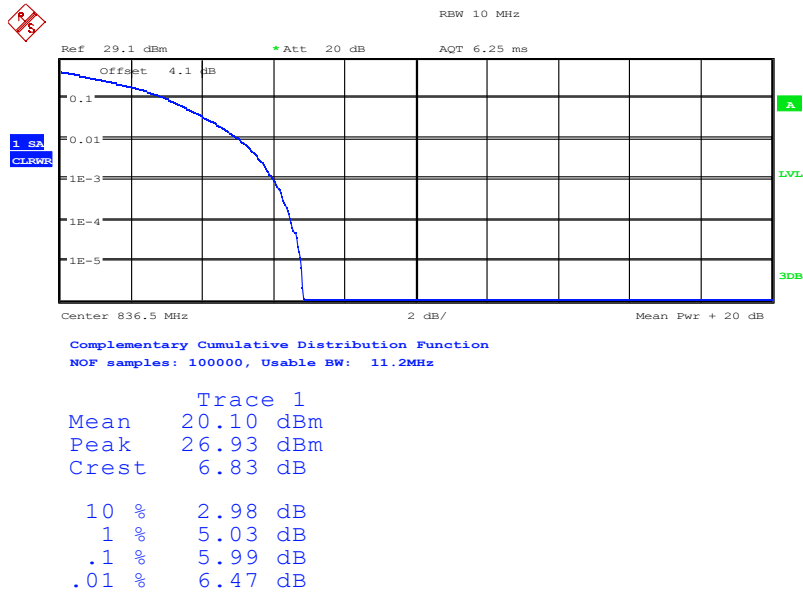


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Date: 5.NOV.2021 12:33:19

LTE Band5, QPSK



Date: 5.NOV.2021 12:33:30

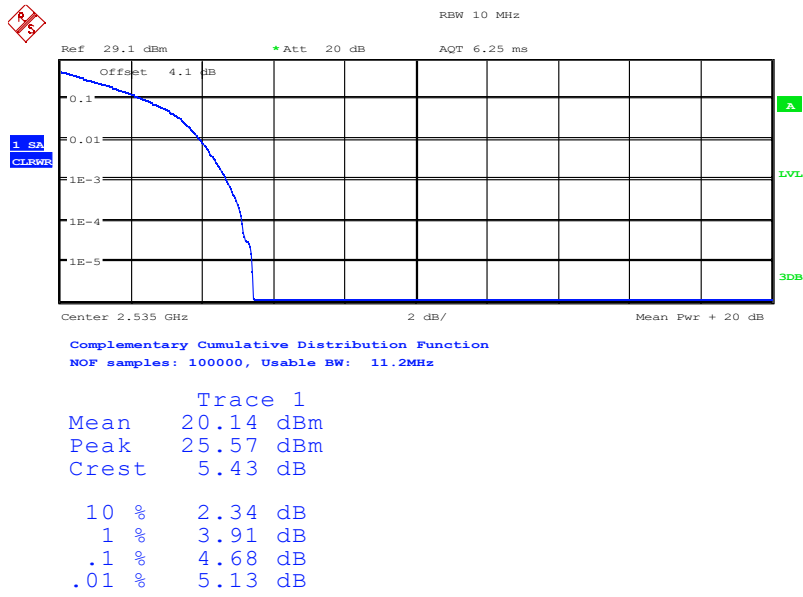
LTE Band5, 16QAM

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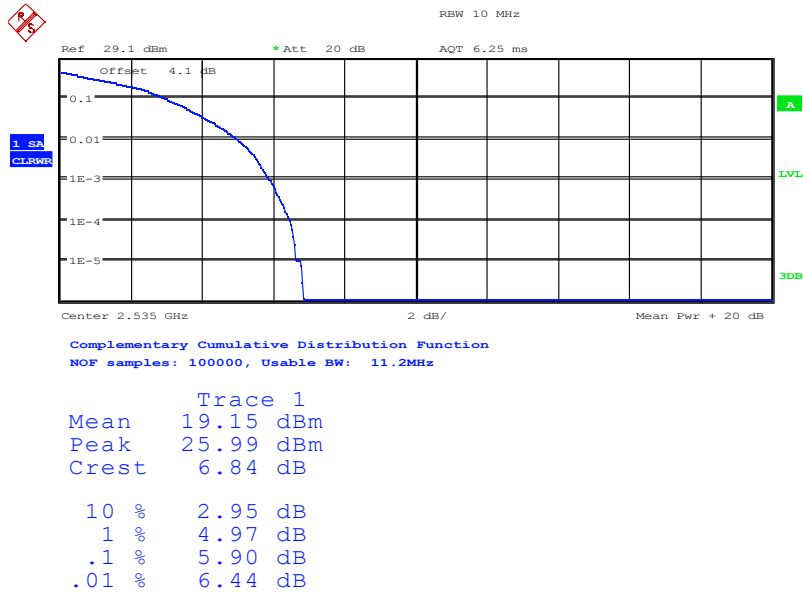


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Date: 5.NOV.2021 12:32:26

LTE Band7, QPSK



Date: 5.NOV.2021 12:32:13

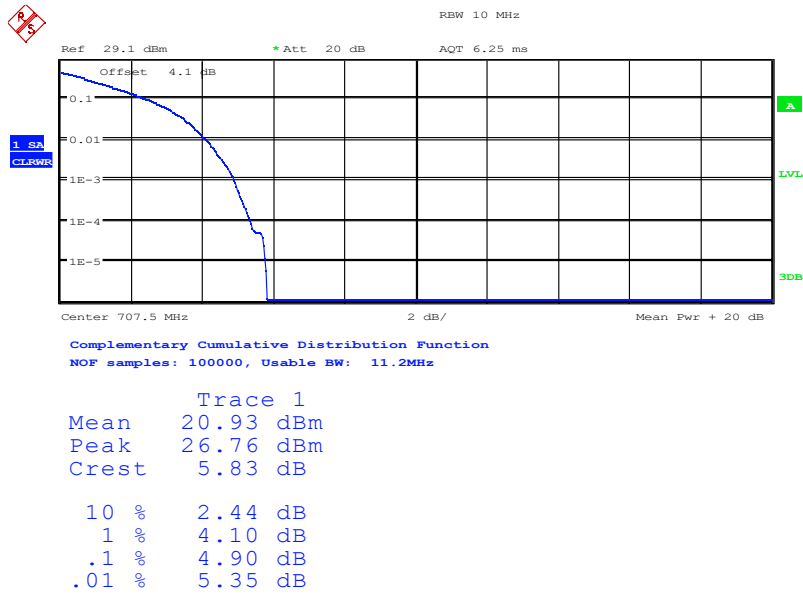
LTE Band7, 16QAM

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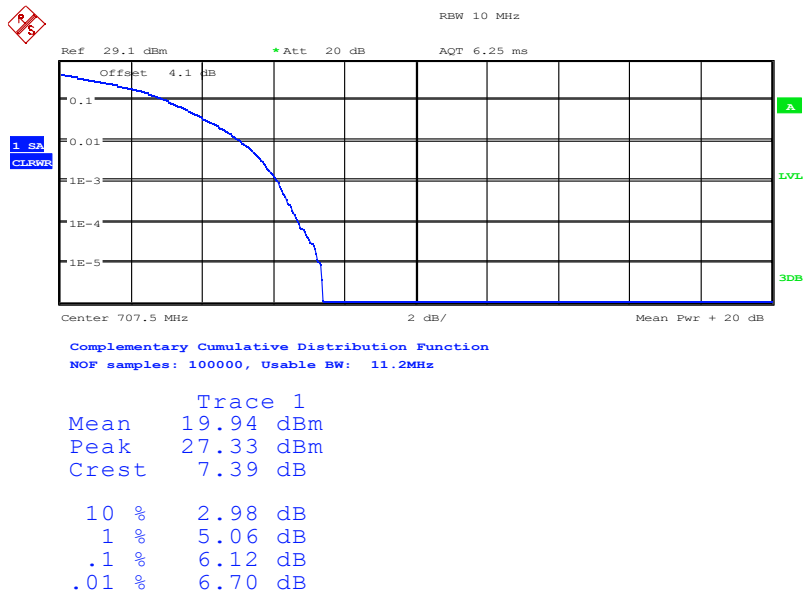


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Date: 5.NOV.2021 12:31:19

## LTE Band12, QPSK



Date: 5.NOV.2021 12:31:32

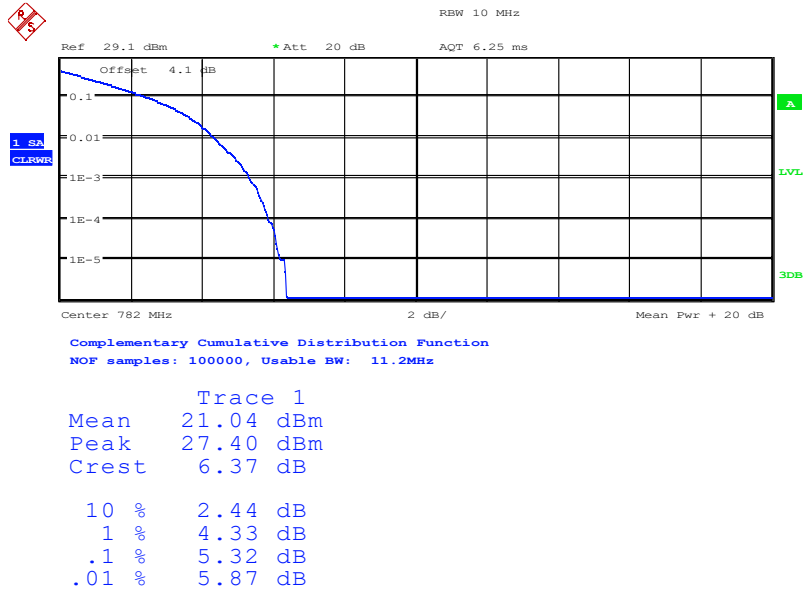
## LTE Band12, 16QAM

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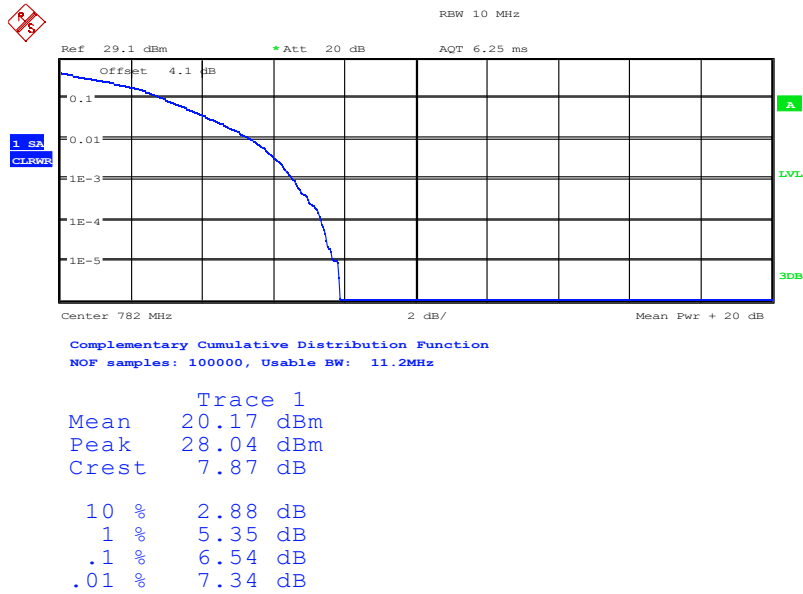


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Date: 5.NOV.2021 12:30:22

LTE Band13, QPSK



Date: 5.NOV.2021 12:30:12

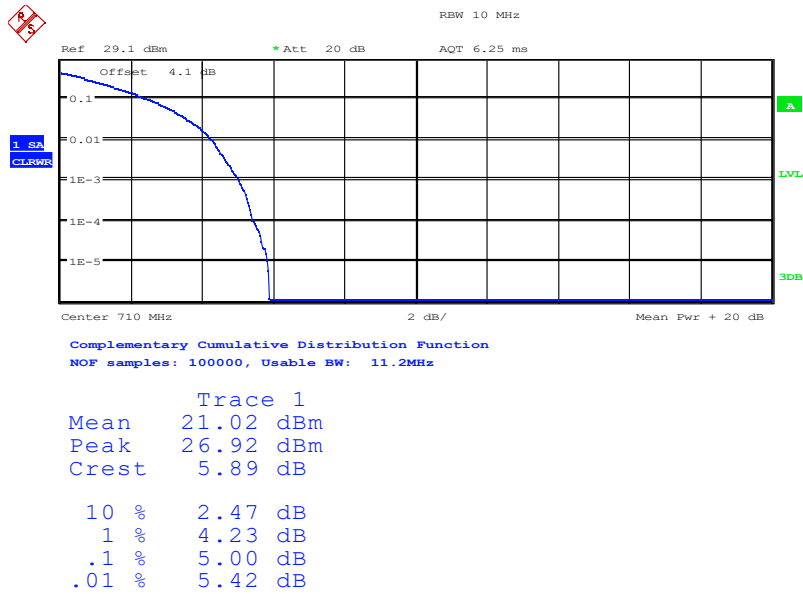
LTE Band13, 16QAM

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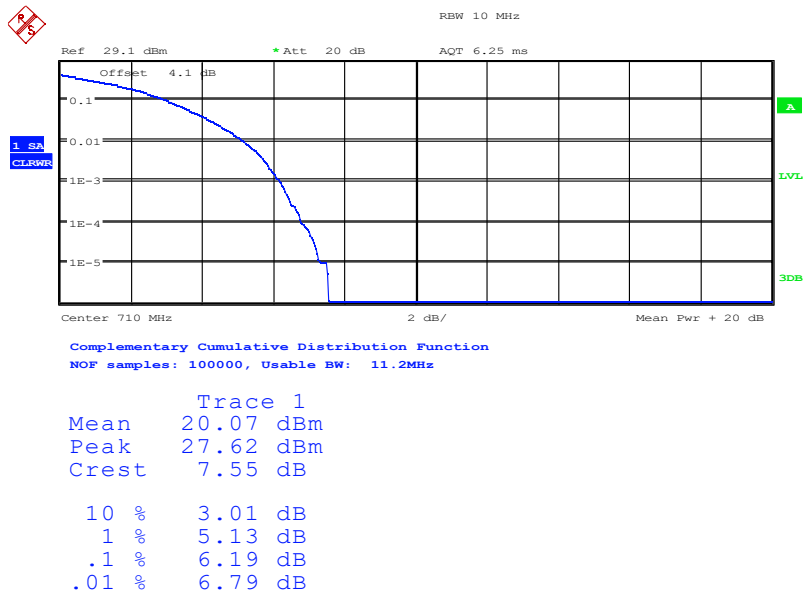


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Date: 5.NOV.2021 12:29:39

## LTE Band17, QPSK



Date: 5.NOV.2021 12:29:49

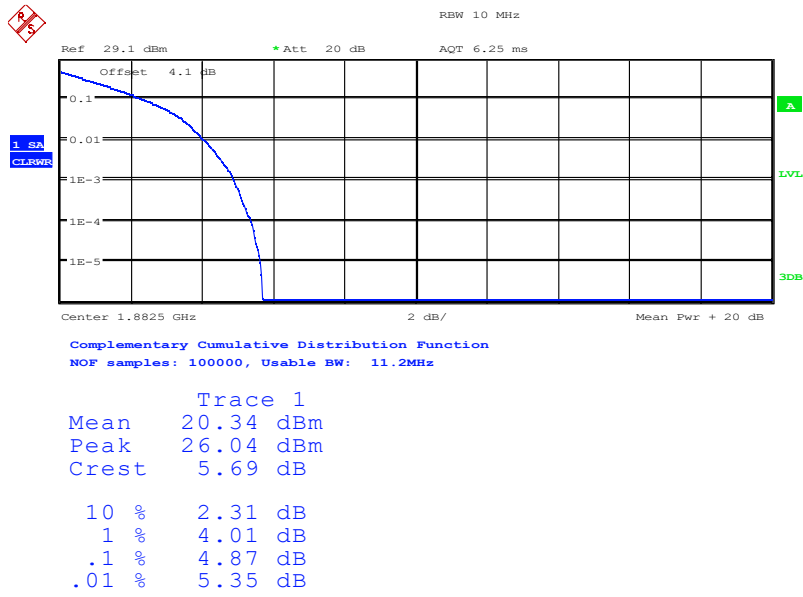
## LTE Band17, 16QAM

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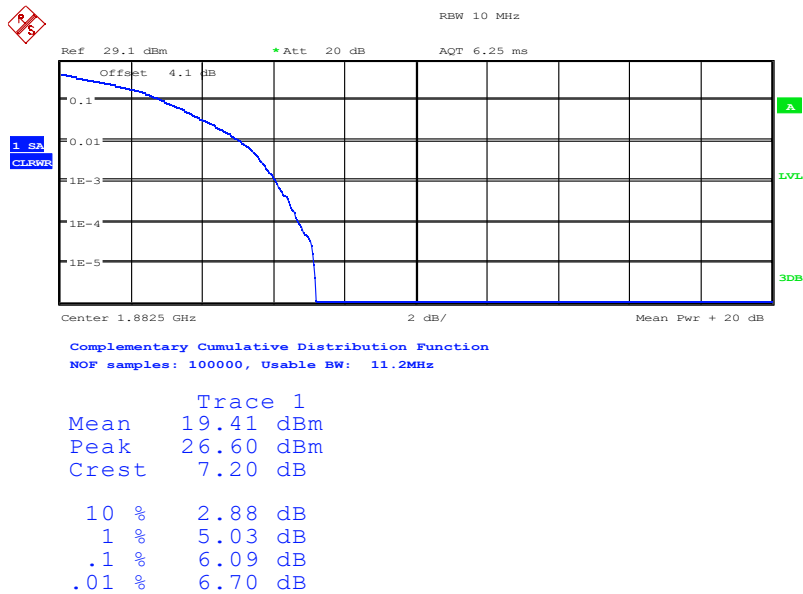


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Date: 5.NOV.2021 12:29:14

## LTE Band25, QPSK



Date: 5.NOV.2021 12:29:03

## LTE Band25, 16QAM

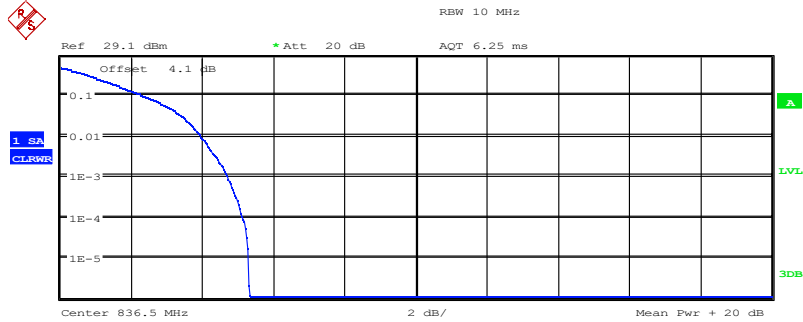
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(824MHz-849MHz)



Complementary Cumulative Distribution Function  
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1

Mean 20.98 dBm

Peak 26.29 dBm

Crest 5.32 dB

10 % 2.34 dB

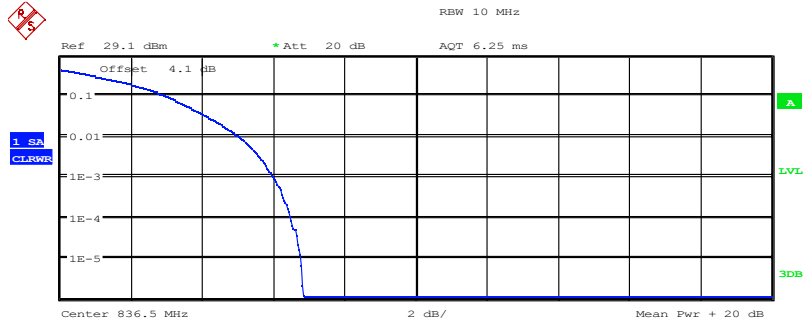
1 % 3.94 dB

.1 % 4.71 dB

.01 % 5.13 dB

Date: 5.NOV.2021 12:33:19

LTE Band5, QPSK



Complementary Cumulative Distribution Function  
NOF samples: 100000, Usable BW: 11.2MHz

Trace 1

Mean 20.10 dBm

Peak 26.93 dBm

Crest 6.83 dB

10 % 2.98 dB

1 % 5.03 dB

.1 % 5.99 dB

.01 % 6.47 dB

Date: 5.NOV.2021 12:33:30

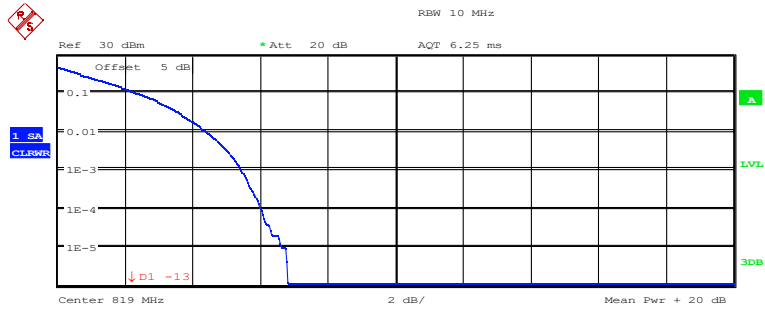
LTE Band5, 16QAM

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(814MHz-824MHz)

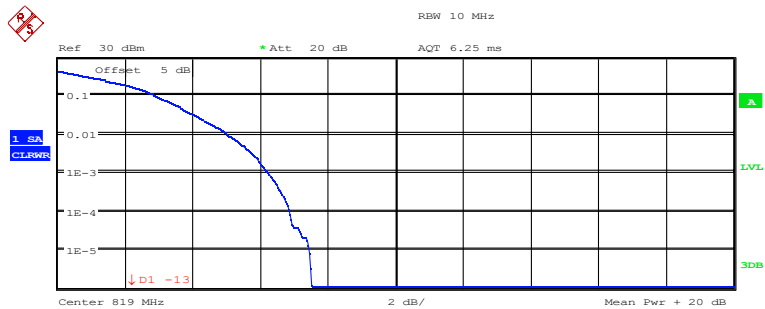


Complementary Cumulative Distribution Function  
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	22.92 dBm
Peak	29.73 dBm
Crest	6.81 dB
10 %	2.34 dB
1 %	4.36 dB
.1 %	5.45 dB
.01 %	6.03 dB

Date: 17.JAN.2022 01:19:12

LTE Band26, QPSK



Complementary Cumulative Distribution Function  
 NOF samples: 100000, Usable BW: 11.2MHz

Trace 1	
Mean	21.87 dBm
Peak	29.38 dBm
Crest	7.51 dB
10 %	2.88 dB
1 %	5.00 dB
.1 %	6.22 dB
.01 %	6.86 dB

Date: 17.JAN.2022 01:19:26

LTE Band26, 16QAM

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## **Annex A EUT Photos**

See the document "SLM900-External Photos".

See the document "SLM900-Internal Photos".

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## **ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

**\*\*\*END OF REPORT\*\*\***

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