

PAPR Measurement Results

Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured PAPR (dB)	Limit (dB)	Margin (dB)
1880	1.4	18900	1	3	QPSK	4.60	13.00	8.4
1880	1.4	18900	1	3	16QAM	5.64		7.4
1880	1.4	18900	1	3	64QAM	4.84		8.2
1880	1.4	18900	6	0	QPSK	5.20		7.8
1880	1.4	18900	6	0	16QAM	5.92		7.1
1880	1.4	18900	6	0	64QAM	5.44		7.6
1880	3	18900	15	0	QPSK	5.24		7.8
1880	3	18900	15	0	16QAM	6.00		7.0
1880	3	18900	15	0	64QAM	5.36		7.6
1880	5	18900	25	0	QPSK	5.24		7.8
1880	5	18900	25	0	16QAM	6.00		7.0
1880	5	18900	25	0	64QAM	5.32		7.7
1880	10	18900	50	0	QPSK	5.36		7.6
1880	10	18900	50	0	16QAM	6.24		6.8
1880	10	18900	50	0	64QAM	5.40		7.6
1880	15	18900	75	0	QPSK	5.76		7.2
1880	15	18900	75	0	16QAM	6.68		6.3
1880	15	18900	75	0	64QAM	5.72		7.3
1880	20	18900	100	0	QPSK	6.36		6.6
1880	20	18900	100	0	16QAM	7.04		6.0
1880	20	18900	100	0	64QAM	6.36	6.6	
								Complies

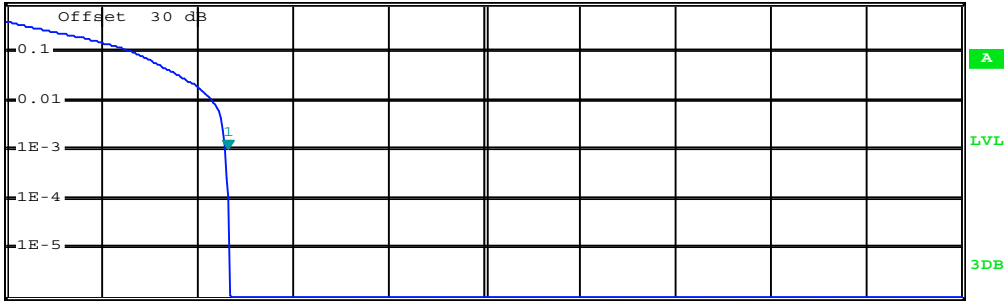
Margin = Limit - PAPR

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.001298844
 Ref 40 dBm *Att 10 dB AQT 3.125 ms 4.60 dB

1 SA
 VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

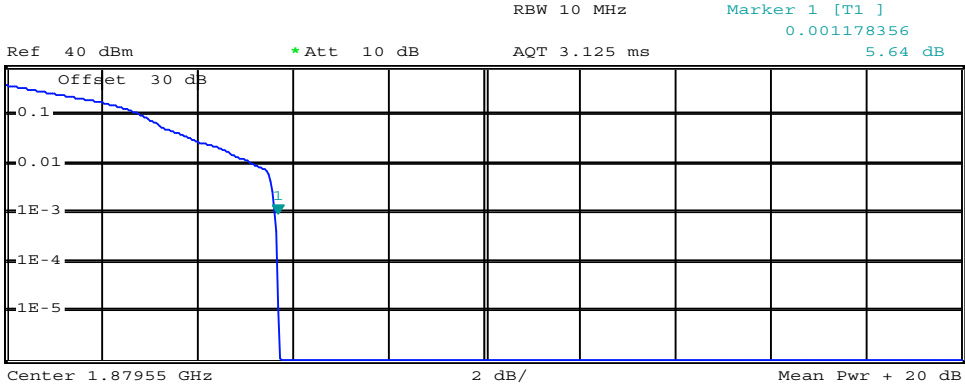
Mean 21.65 dBm
 Peak 26.35 dBm
 Crest 4.70 dB

10 % 2.72 dB
 1 % 4.36 dB
 .1 % 4.60 dB
 .01 % 4.68 dB

Date: 22.APR.2021 11:03:36

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	PAPR (dB): 4.6
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.36 dBm
Peak 26.07 dBm
Crest 5.71 dB

10 % 2.88 dB
1 % 5.24 dB
.1 % 5.64 dB
.01 % 5.72 dB

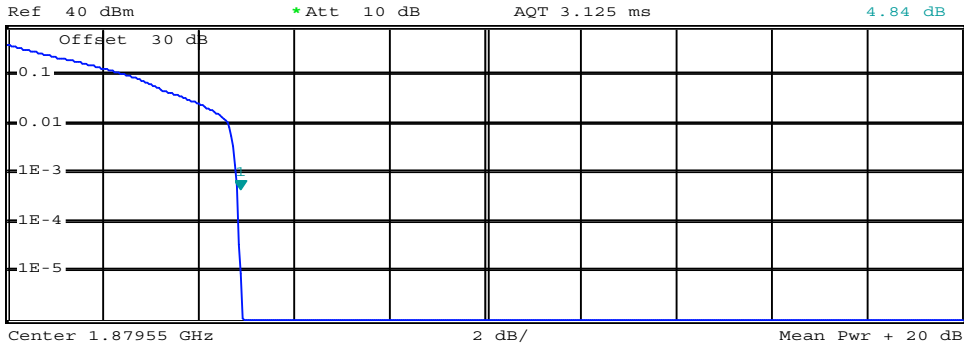
Date: 22.APR.2021 11:02:48

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.64
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.000575478
 4.84 dB



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

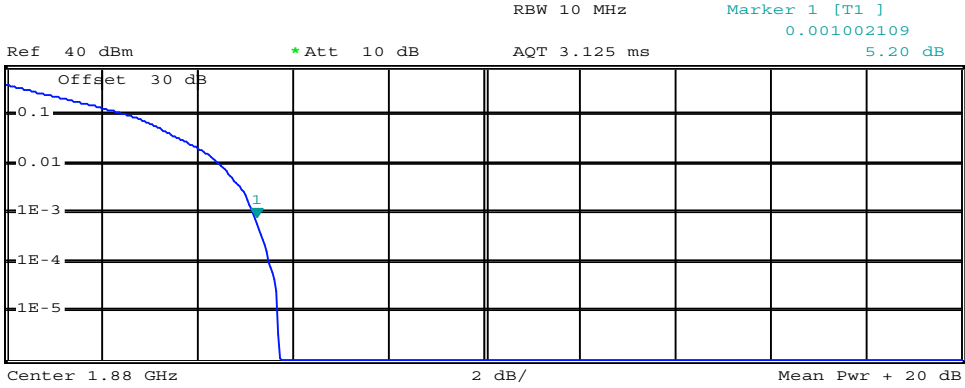
Trace 1

Mean	20.16 dBm
Peak	25.08 dBm
Crest	4.92 dB
10 %	2.64 dB
1 %	4.64 dB
.1 %	4.84 dB
.01 %	4.88 dB

Date: 22.APR.2021 11:01:47

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	PAPR (dB): 4.84
EARFCN: 18900	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

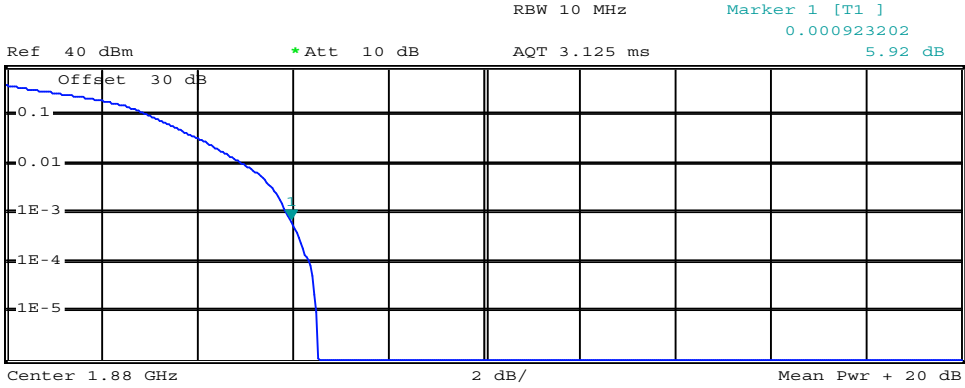
Mean 20.92 dBm
Peak 26.63 dBm
Crest 5.71 dB

10 % 2.68 dB
1 % 4.52 dB
.1 % 5.20 dB
.01 % 5.52 dB

Date: 22.APR.2021 11:05:56

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	PAPR (dBm): 5.2
EARFCN: 18900	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.02 dBm
Peak 26.56 dBm
Crest 6.54 dB

10 % 3.04 dB
1 % 5.04 dB
.1 % 5.92 dB
.01 % 6.36 dB

Date: 22.APR.2021 11:06:47

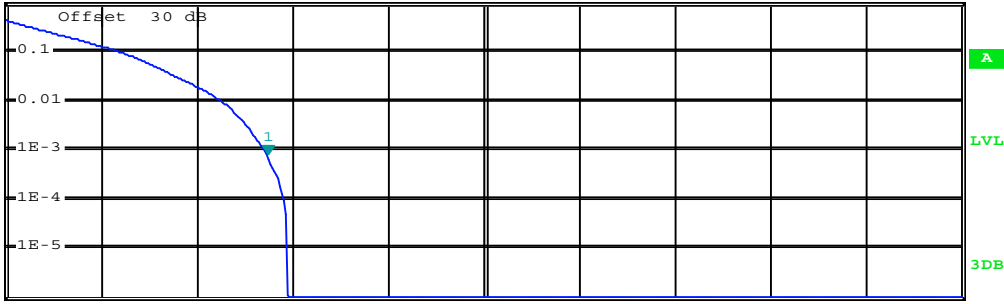
Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.92
EARFCN: 18900	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.001033302
 Ref 40 dBm *Att 10 dB AQT 3.125 ms Mean Pwr + 20 dB 5.44 dB

1 SA
 VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

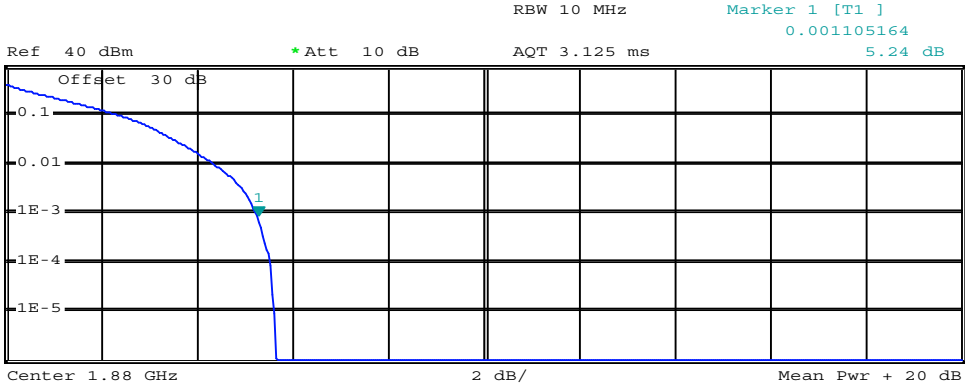
Mean 19.03 dBm
 Peak 24.94 dBm
 Crest 5.91 dB

10 % 2.52 dB
 1 % 4.56 dB
 .1 % 5.44 dB
 .01 % 5.84 dB

Date: 22.APR.2021 11:07:33

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.44
EARFCN: 18900	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

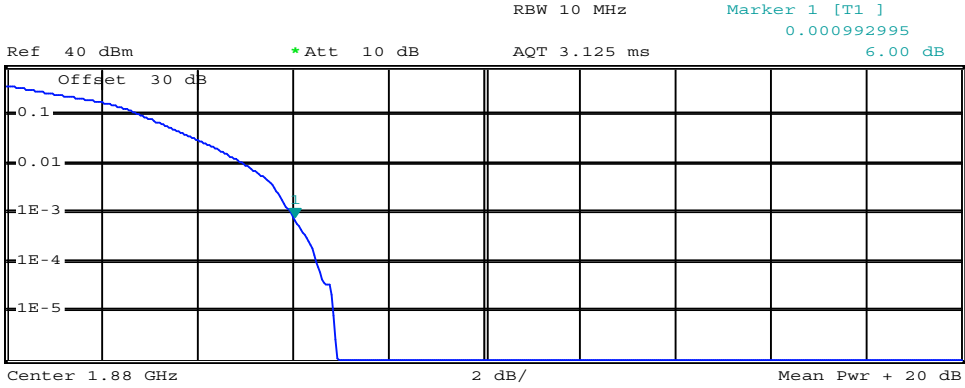
Mean 20.83 dBm
 Peak 26.49 dBm
 Crest 5.66 dB

10 % 2.48 dB
 1 % 4.40 dB
 .1 % 5.24 dB
 .01 % 5.56 dB

Date: 22.APR.2021 11:13:08

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 3.0	PAPR (dB): 5.24
EARFCN: 18900	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.99 dBm
 Peak 26.91 dBm
 Crest 6.93 dB

10 % 2.92 dB
 1 % 5.04 dB
 .1 % 6.00 dB
 .01 % 6.52 dB

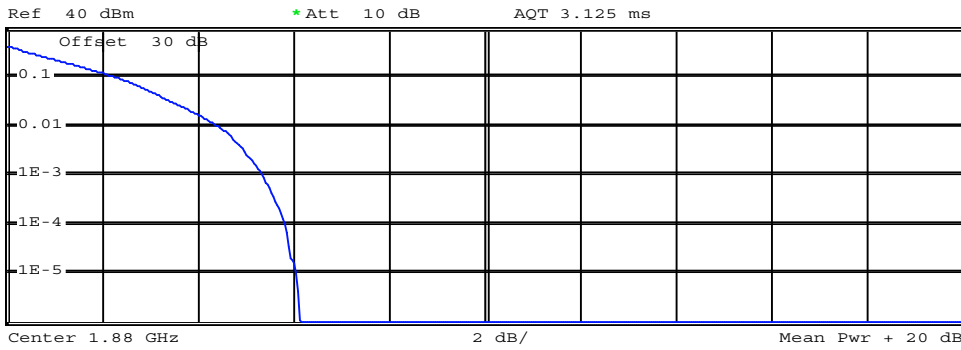
Date: 22.APR.2021 11:12:25

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 3.0	PAPR (dB): 6
EARFCN: 18900	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

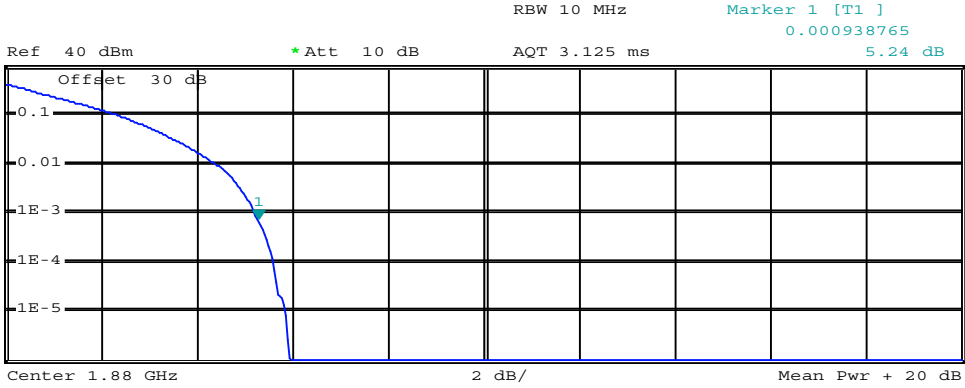
Mean 18.94 dBm
 Peak 25.08 dBm
 Crest 6.14 dB

10 % 2.36 dB
 1 % 4.48 dB
 .1 % 5.36 dB
 .01 % 5.84 dB

Date: 22.APR.2021 11:11:20

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 3.0	PAPR (dB): 5.36
EARFCN: 18900	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

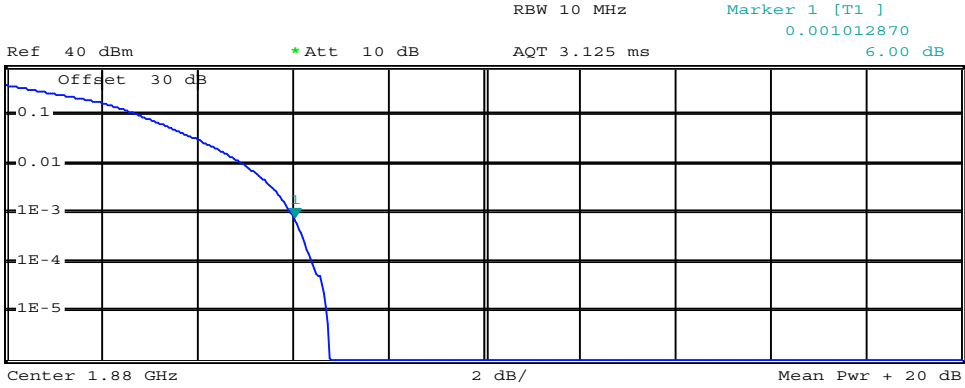
Mean 20.92 dBm
 Peak 26.84 dBm
 Crest 5.93 dB

10 % 2.44 dB
 1 % 4.44 dB
 .1 % 5.24 dB
 .01 % 5.60 dB

Date: 22.APR.2021 11:14:40

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 5.0	PAPR (dB): 5.24
EARFCN: 18900	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.92 dBm
Peak 26.70 dBm
Crest 6.79 dB

10 % 2.88 dB
1 % 5.00 dB
.1 % 6.00 dB
.01 % 6.44 dB

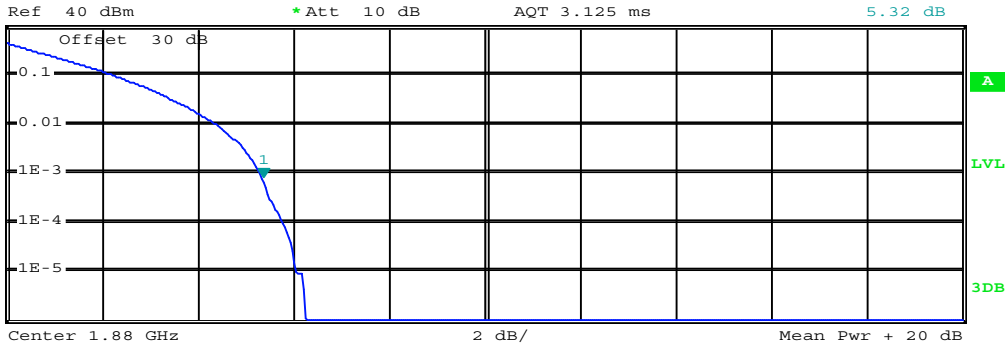
Date: 22.APR.2021 11:16:05

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 5.0	PAPR (dB): 6
EARFCN: 18900	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.000997188
 *Att 10 dB
 AQT 3.125 ms
 5.32 dB



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.03 dBm
 Peak 25.29 dBm
 Crest 6.26 dB

10 % 2.32 dB
 1 % 4.40 dB
 .1 % 5.32 dB
 .01 % 5.80 dB

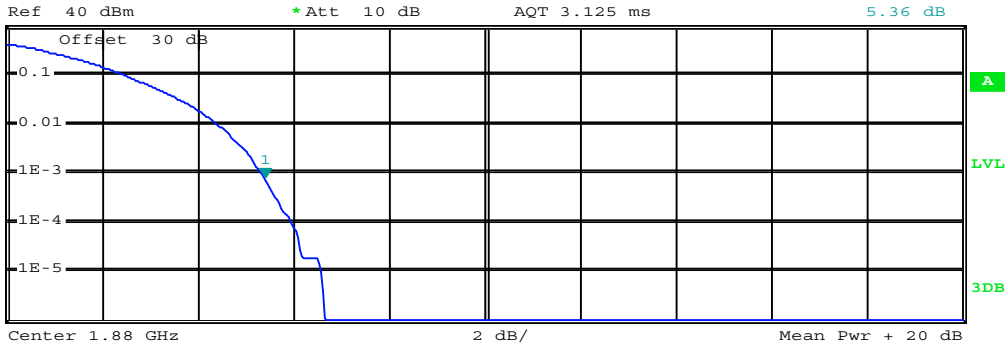
Date: 22.APR.2021 11:16:49

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 5.0	PAPR (dB): 5.32
EARFCN: 18900	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.000991042
 *Att 10 dB
 AQT 3.125 ms
 5.36 dB



Complementary Cumulative Distribution Function (100000 samples)

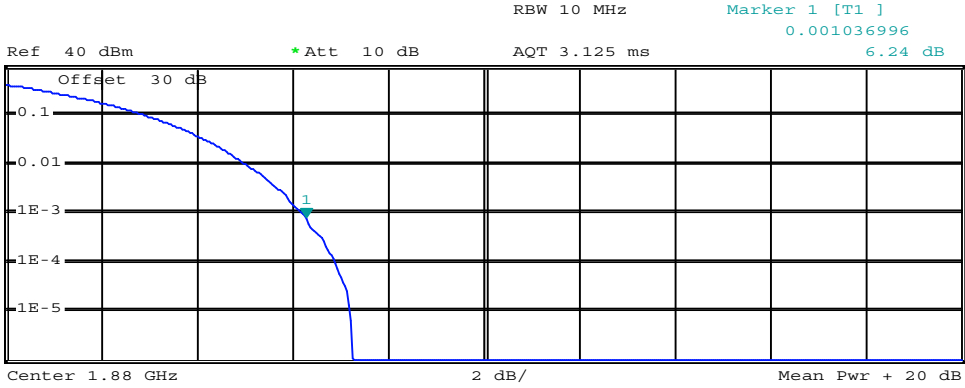
Trace 1

Mean	20.61 dBm
Peak	27.27 dBm
Crest	6.66 dB
10 %	2.56 dB
1 %	4.44 dB
.1 %	5.36 dB
.01 %	5.96 dB

Date: 22.APR.2021 11:21:39

Channel Frequency (MHz):	1880.0	Channel Bandwidth (MHz):	10.0	PAPR (dB):	5.36
EARFCN:	18900	Resource Blocks (RB):	50		
RB Offset:	0	Modulation:	QPSK		

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

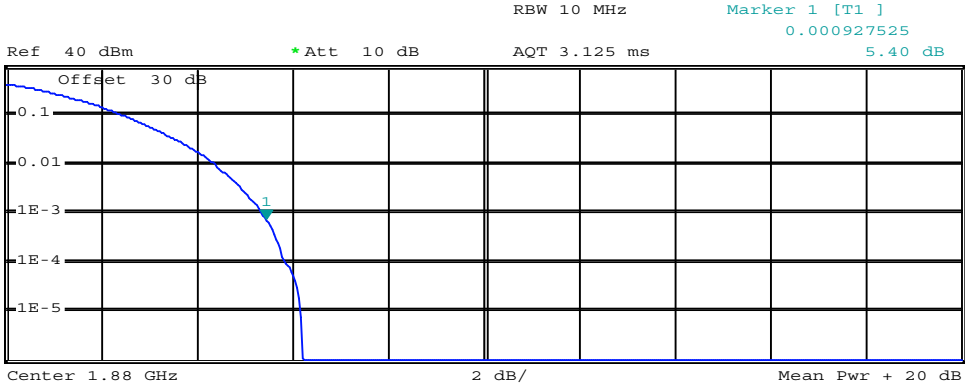
Mean 19.64 dBm
Peak 26.91 dBm
Crest 7.27 dB

10 % 3.00 dB
1 % 5.08 dB
.1 % 6.24 dB
.01 % 6.92 dB

Date: 22.APR.2021 11:20:47

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 10.0	PAPR (dB): 6.24
EARFCN: 18900	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

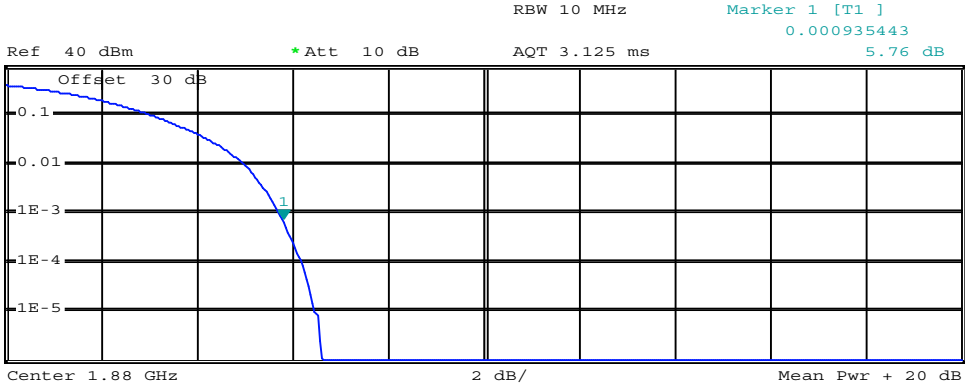
Mean 18.72 dBm
 Peak 24.94 dBm
 Crest 6.22 dB

10 % 2.52 dB
 1 % 4.40 dB
 .1 % 5.40 dB
 .01 % 5.88 dB

Date: 22.APR.2021 11:19:59

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 10.0	PAPR (dB): 5.4
EARFCN: 18900	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.32 dBm
Peak 25.93 dBm
Crest 6.60 dB

10 % 3.16 dB
1 % 5.00 dB
.1 % 5.76 dB
.01 % 6.24 dB

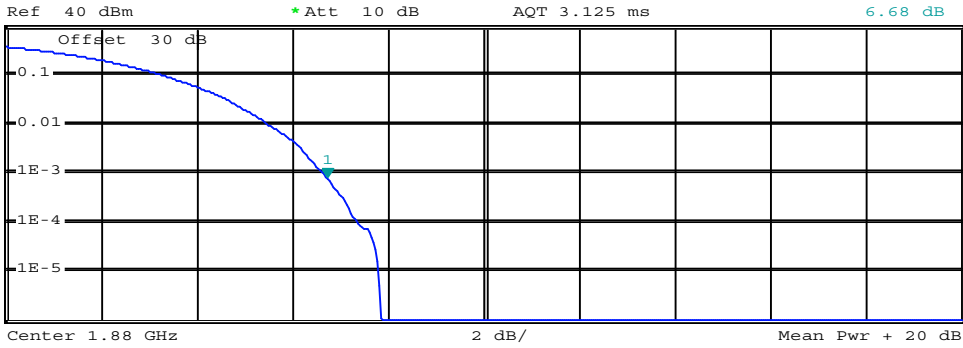
Date: 22.APR.2021 11:27:26

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 15.0	PAPR (dB): 5.76
EARFCN: 18900	Resource Blocks (RB): 75	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.000961462
 6.68 dB



1 SA
 VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	18.22 dBm
Peak	26.07 dBm
Crest	7.84 dB
10 %	3.40 dB
1 %	5.52 dB
.1 %	6.68 dB
.01 %	7.40 dB

Date: 22.APR.2021 11:25:17

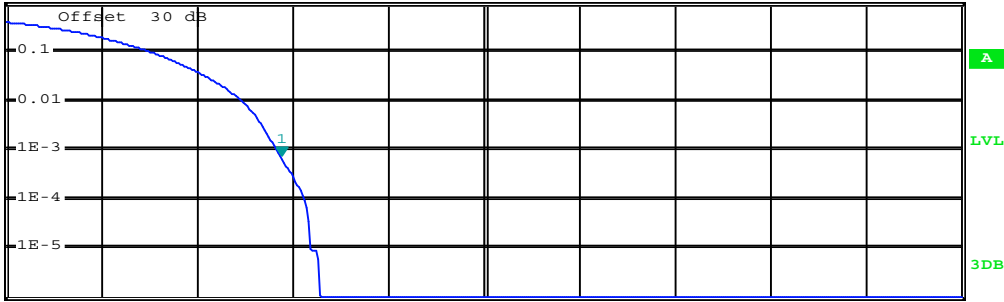
Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 15.0	PAPR (dB): 6.68
EARFCN: 18900	Resource Blocks (RB): 75	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.000937770
 Ref 40 dBm *Att 10 dB AQT 3.125 ms Mean Pwr + 20 dB 5.72 dB

1 SA
 VIEW



Complementary Cumulative Distribution Function (100000 samples)

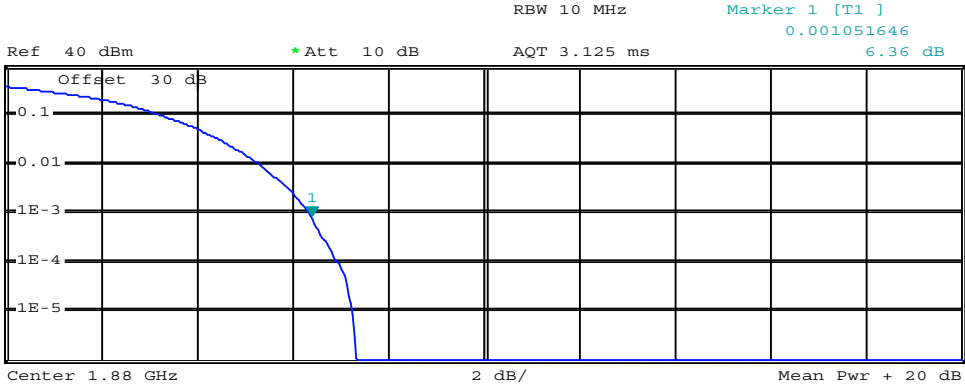
Trace 1

Mean	17.36 dBm
Peak	23.95 dBm
Crest	6.59 dB
10 %	3.16 dB
1 %	4.96 dB
.1 %	5.72 dB
.01 %	6.28 dB

Date: 22.APR.2021 11:26:12

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 15.0	PAPR (dB): 5.72
EARFCN: 18900	Resource Blocks (RB): 75	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 18.10 dBm
Peak 25.43 dBm
Crest 7.33 dB

10 % 3.36 dB
1 % 5.32 dB
.1 % 6.36 dB
.01 % 6.96 dB

Date: 22.APR.2021 11:28:36

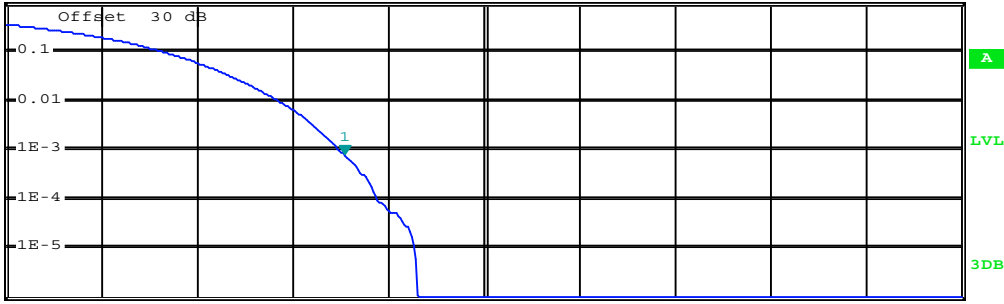
Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 20.0	PAPR (dB): 6.36
EARFCN: 18900	Resource Blocks (RB): 100	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



RBW 10 MHz
 Marker 1 [T1]
 0.000969439
 Ref 40 dBm *Att 10 dB AQT 3.125 ms Mean Pwr + 20 dB 7.04 dB

1 SA
 VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

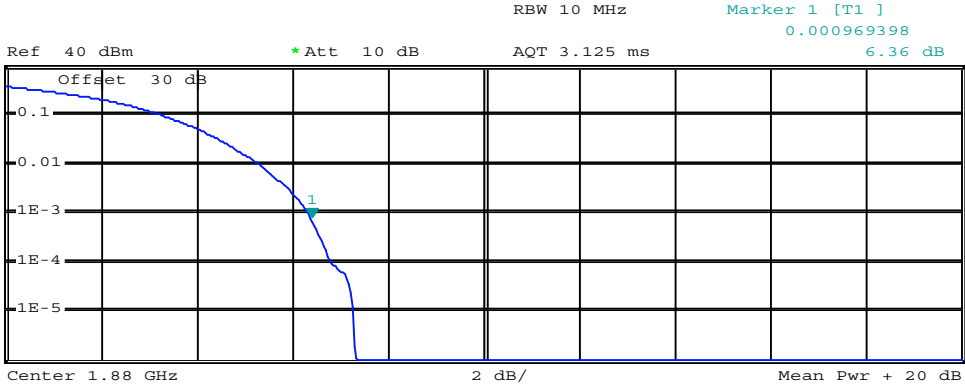
Mean 17.02 dBm
 Peak 25.64 dBm
 Crest 8.63 dB

10 % 3.44 dB
 1 % 5.76 dB
 .1 % 7.04 dB
 .01 % 7.84 dB

Date: 22.APR.2021 11:29:39

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 20.0	PAPR (dB): 7.04
EARFCN: 18900	Resource Blocks (RB): 100	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 2



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 16.14 dBm
Peak 23.46 dBm
Crest 7.31 dB

10 % 3.36 dB
1 % 5.32 dB
.1 % 6.36 dB
.01 % 6.88 dB

Date: 22.APR.2021 11:30:27

Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 20.0	PAPR (dB): 6.36
EARFCN: 18900	Resource Blocks (RB): 100	
RB Offset: 0	Modulation: 64QAM	

PAPR Measurement Results

Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured PAPR (dB)	Limit (dB)	Margin (dB)
836.5	1.4	20525	1	3	QPSK	5.32	13.00	7.7
836.5	1.4	20525	1	3	16QAM	6.28		6.7
836.5	1.4	20525	1	3	64QAM	5.20		7.8
836.5	1.4	20525	6	0	QPSK	5.76		7.2
836.5	1.4	20525	6	0	16QAM	6.64		6.4
836.5	1.4	20525	6	0	64QAM	5.60		7.4
836.5	3	20525	15	0	QPSK	5.88		7.1
836.5	3	20525	15	0	16QAM	6.68		6.3
836.5	3	20525	15	0	64QAM	5.68		7.3
836.5	5	20525	25	0	QPSK	5.64		7.4
836.5	5	20525	25	0	16QAM	6.56		6.4
836.5	5	20525	25	0	64QAM	5.44		7.6
836.5	10	20525	50	0	QPSK	5.56		7.4
836.5	10	20525	50	0	16QAM	6.52		6.5
836.5	10	20525	50	0	64QAM	5.56		7.4
								Complies

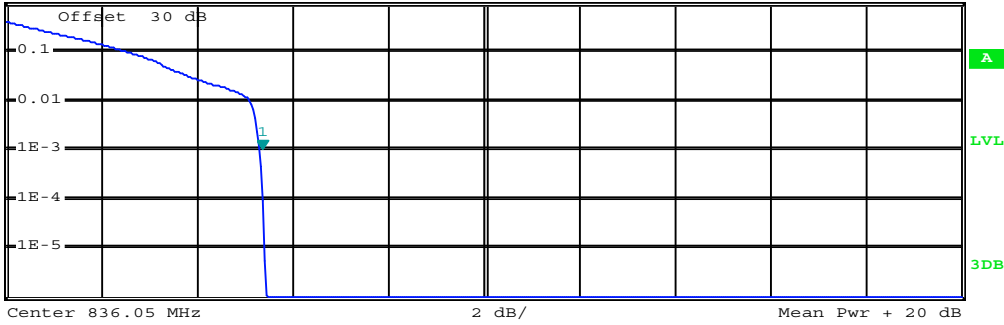
Margin = Limit - PAPR

Peak-To-Average Power Ratio (PAPR) LTE Band 5



RBW 10 MHz
 Marker 1 [T1]
 0.001257606
 Ref 40 dBm *Att 10 dB AQT 3.125 ms 5.32 dB

1 SA
 VIEW



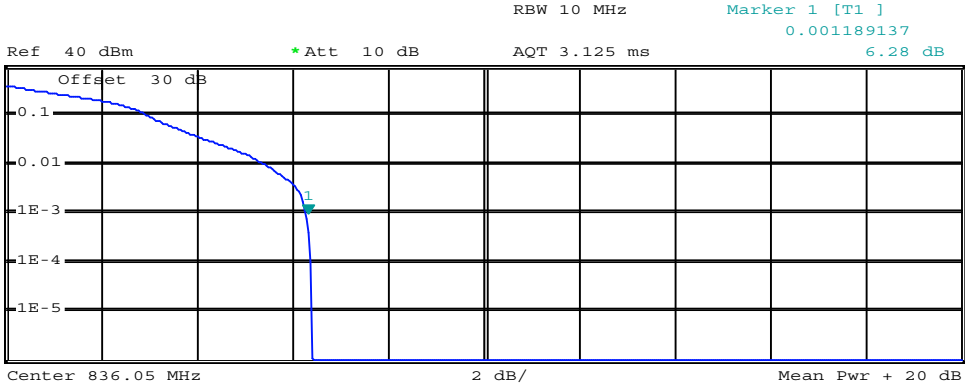
Complementary Cumulative Distribution Function (100000 samples)
 Trace 1
 Mean 21.94 dBm
 Peak 27.41 dBm
 Crest 5.47 dB

 10 % 2.68 dB
 1 % 5.12 dB
 .1 % 5.32 dB
 .01 % 5.40 dB

Date: 22.APR.2021 12:01:01

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.32
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA
CLRWR

A
LVL
3DB

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.57 dBm
Peak 27.97 dBm
Crest 6.40 dB

10 % 3.00 dB
1 % 5.48 dB
.1 % 6.28 dB
.01 % 6.40 dB

Date: 22.APR.2021 12:00:15

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 6.28
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5

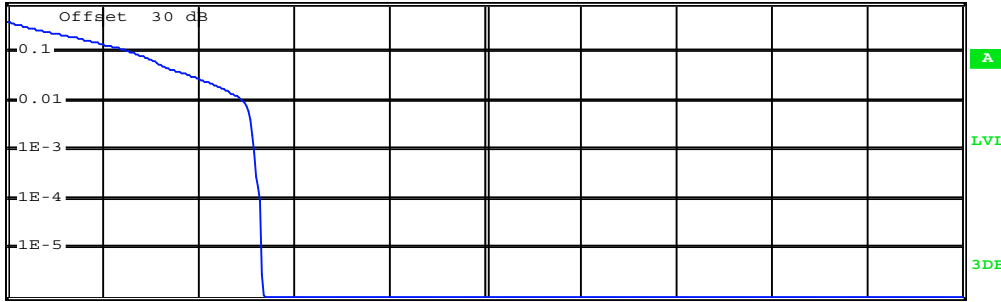


RBW 10 MHz

Ref 40 dBm

*Att 10 dB

AQT 3.125 ms



1 SA VIEW

Center 836.05 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.72 dBm
 Peak 26.07 dBm
 Crest 5.35 dB

10 % 2.72 dB
 1 % 5.00 dB
 .1 % 5.20 dB
 .01 % 5.32 dB

Date: 22.APR.2021 11:59:24

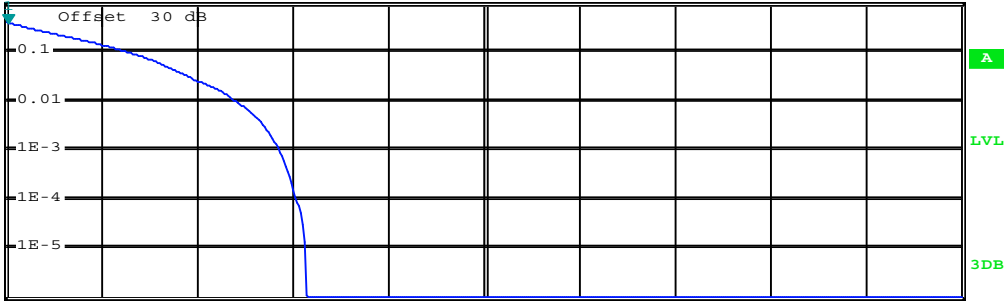
Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.2
EARFCN: 20525	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



RBW 10 MHz
 Marker 1 [T1]
 0.453787476
 Ref 40 dBm *Att 10 dB AQT 3.125 ms 0.00 dB

1 SA
 VIEW



Center 836.5 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

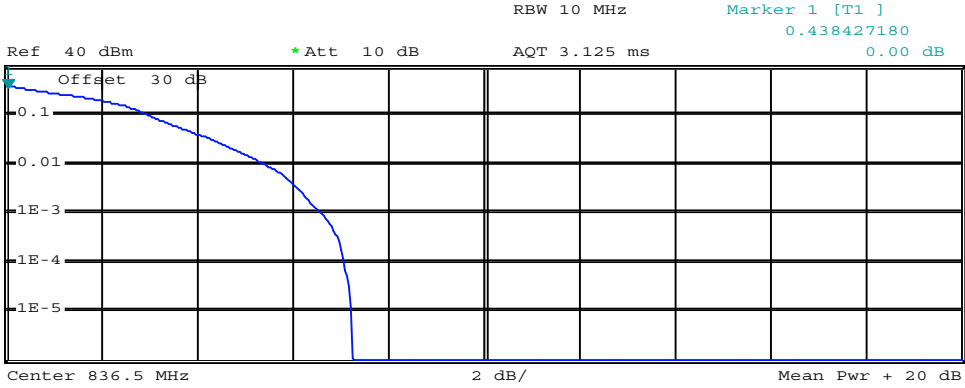
Mean 21.81 dBm
 Peak 28.11 dBm
 Crest 6.30 dB

10 % 2.68 dB
 1 % 4.84 dB
 .1 % 5.76 dB
 .01 % 6.12 dB

Date: 22.APR.2021 12:02:54

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	PAPR (dBm): 5.76
EARFCN: 20525	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

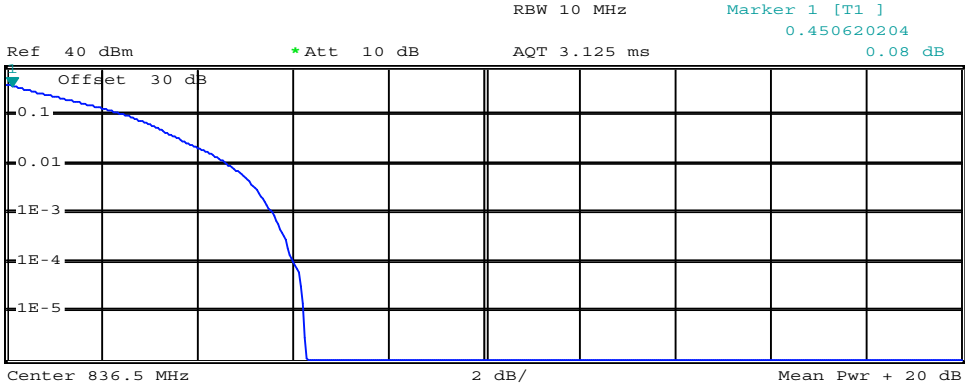
Mean 20.51 dBm
 Peak 27.76 dBm
 Crest 7.25 dB

10 % 3.08 dB
 1 % 5.48 dB
 .1 % 6.64 dB
 .01 % 7.08 dB

Date: 22.APR.2021 12:03:52

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 6.64
EARFCN: 20525	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

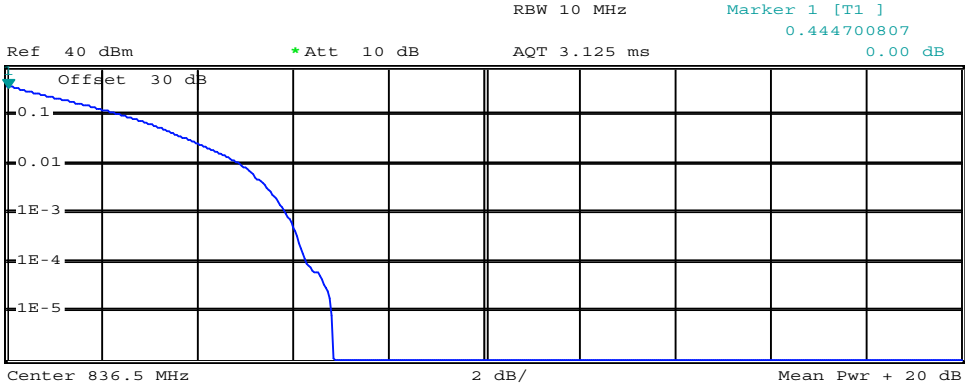
Mean 19.72 dBm
 Peak 26.00 dBm
 Crest 6.28 dB

10 % 2.60 dB
 1 % 4.68 dB
 .1 % 5.60 dB
 .01 % 6.04 dB

Date: 22.APR.2021 12:04:33

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.6
EARFCN: 20525	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

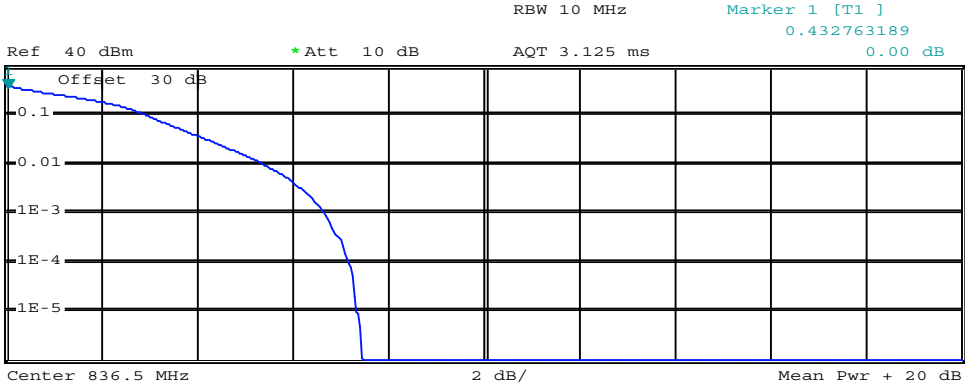
Mean 21.68 dBm
 Peak 28.54 dBm
 Crest 6.86 dB

10 % 2.56 dB
 1 % 4.96 dB
 .1 % 5.88 dB
 .01 % 6.32 dB

Date: 22.APR.2021 12:07:30

Channel Frequency (MHz):	836.5	Channel Bandwidth (MHz):	3.0	PAPR (dB):	5.88
EARFCN:	20525	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	QPSK		

Peak-To-Average Power Ratio (PAPR) LTE Band 5



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

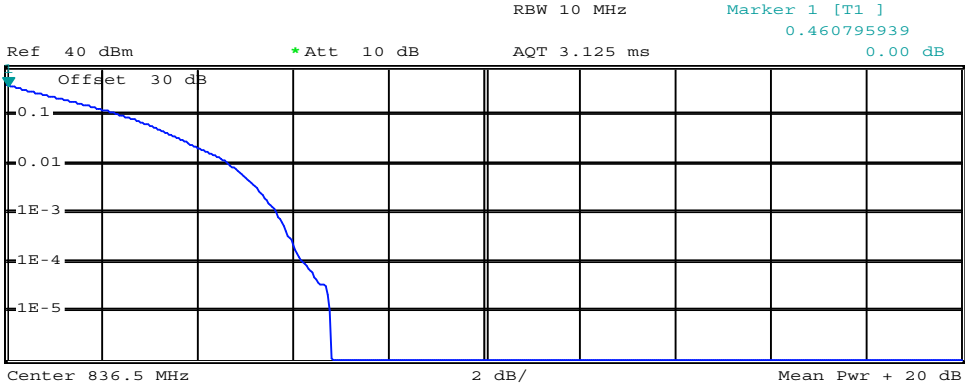
Mean 20.37 dBm
 Peak 27.83 dBm
 Crest 7.46 dB

10 % 3.04 dB
 1 % 5.44 dB
 .1 % 6.68 dB
 .01 % 7.20 dB

Date: 22.APR.2021 12:06:48

Channel Frequency (MHz):	836.5	Channel Bandwidth (MHz):	3.0	PAPR (dB):	6.68
EARFCN:	20525	Resource Blocks (RB):	15		
RB Offset:	0	Modulation:	16QAM		

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

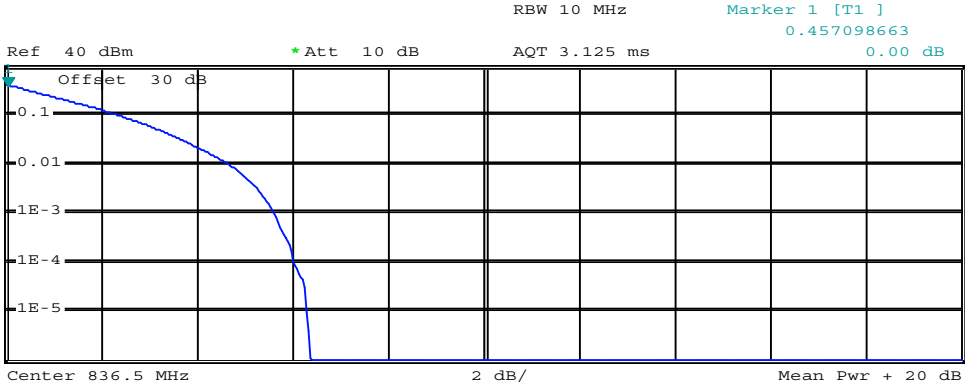
Mean 19.59 dBm
 Peak 26.42 dBm
 Crest 6.83 dB

10 % 2.52 dB
 1 % 4.72 dB
 .1 % 5.68 dB
 .01 % 6.28 dB

Date: 22.APR.2021 12:05:56

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 3.0	PAPR (dB): 5.68
EARFCN: 20525	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

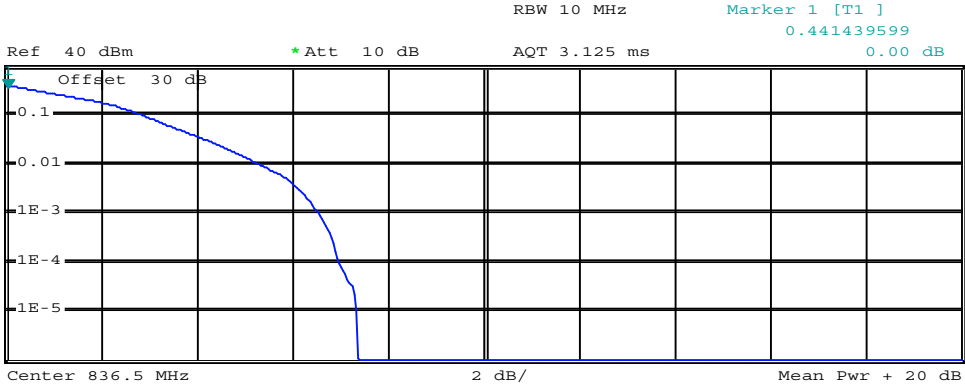
Mean 21.67 dBm
 Peak 28.04 dBm
 Crest 6.38 dB

10 % 2.48 dB
 1 % 4.72 dB
 .1 % 5.64 dB
 .01 % 6.04 dB

Date: 22.APR.2021 12:08:44

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 5.0	PAPR (dB): 5.64
EARFCN: 20525	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA VIEW

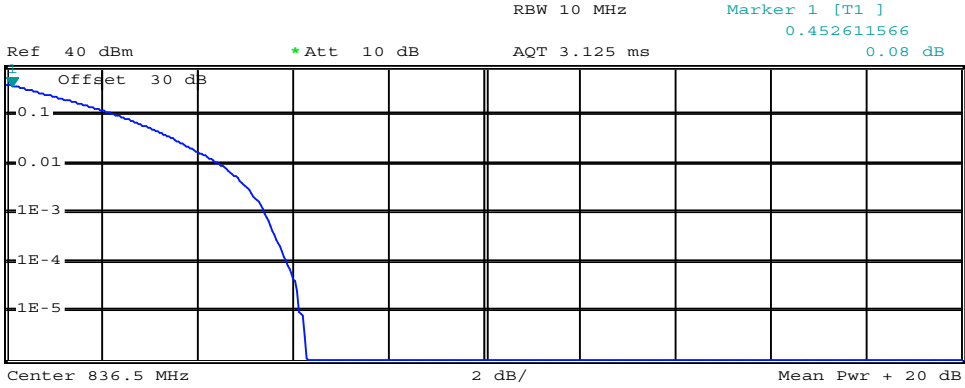
Complementary Cumulative Distribution Function (100000 samples)
 Trace 1
 Mean 20.45 dBm
 Peak 27.83 dBm
 Crest 7.38 dB

10 %	2.96 dB
1 %	5.36 dB
.1 %	6.56 dB
.01 %	7.00 dB

Date: 22.APR.2021 12:09:26

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 5.0	PAPR (dB): 6.56
EARFCN: 20525	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

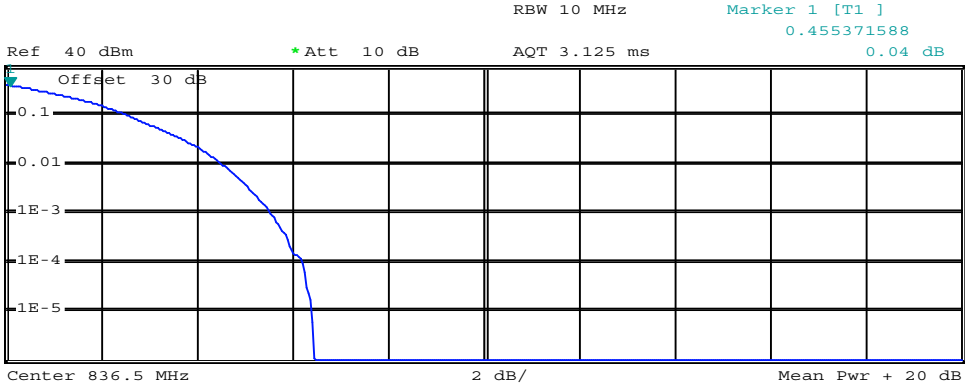
Mean 19.57 dBm
 Peak 25.86 dBm
 Crest 6.29 dB

10 % 2.40 dB
 1 % 4.52 dB
 .1 % 5.44 dB
 .01 % 5.92 dB

Date: 22.APR.2021 12:10:19

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 5.0	PAPR (dB): 5.44
EARFCN: 20525	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

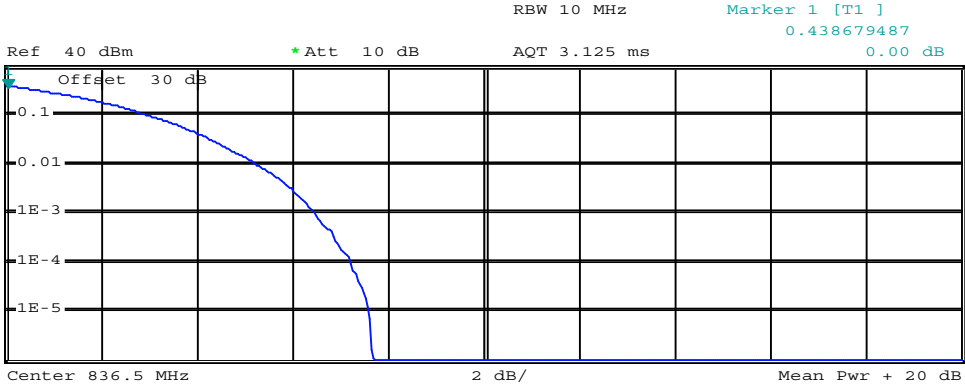
Mean 21.31 dBm
 Peak 27.76 dBm
 Crest 6.45 dB

10 % 2.64 dB
 1 % 4.56 dB
 .1 % 5.56 dB
 .01 % 6.24 dB

Date: 22.APR.2021 12:13:13

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 10.0	PAPR (dB): 5.56
EARFCN: 20525	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

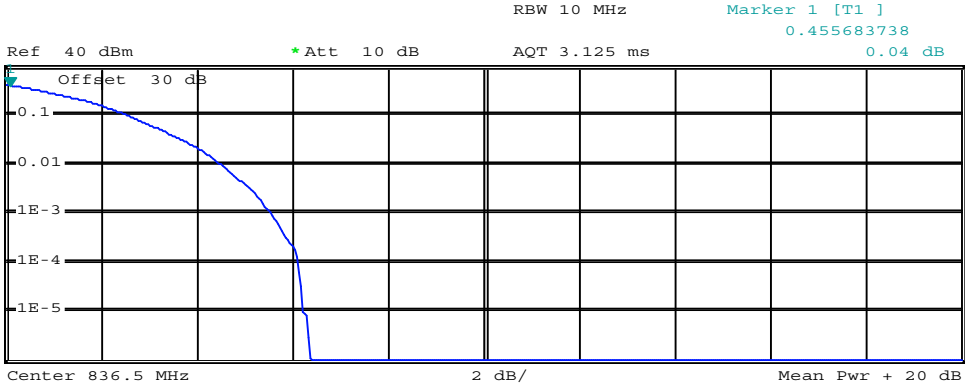
Mean 20.22 dBm
Peak 27.90 dBm
Crest 7.68 dB

10 % 3.08 dB
1 % 5.28 dB
.1 % 6.52 dB
.01 % 7.24 dB

Date: 22.APR.2021 12:12:20

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 10.0	PAPR (dB): 6.52
EARFCN: 20525	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 5



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.42 dBm
 Peak 25.78 dBm
 Crest 6.37 dB

10 % 2.64 dB
 1 % 4.52 dB
 .1 % 5.56 dB
 .01 % 6.12 dB

Date: 22.APR.2021 12:11:32

Channel Frequency (MHz): 836.5	Channel Bandwidth (MHz): 10.0	PAPR (dB): 5.56
EARFCN: 20525	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 64QAM	

PAPR Measurement Results

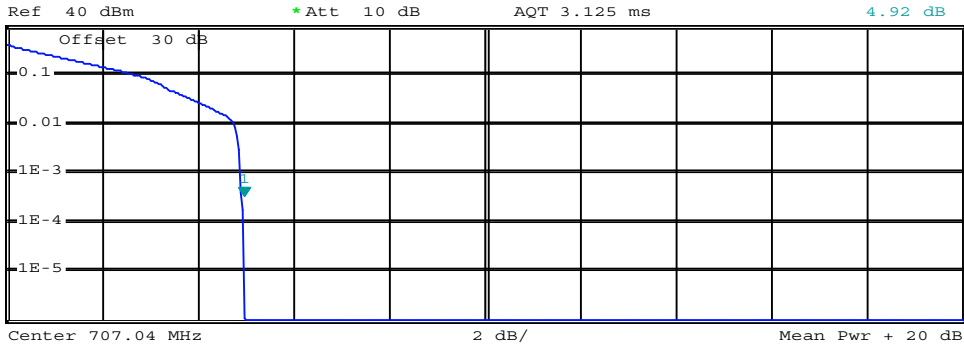
Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured PAPR (dB)	Limit (dB)	Margin (dB)
707.5	1.4	23095	1	3	QPSK	4.92	13.00	8.1
707.5	1.4	23095	1	3	16QAM	5.84		7.2
707.5	1.4	23095	1	3	64QAM	5.00		8.0
707.5	1.4	23095	6	0	QPSK	5.24		7.8
707.5	1.4	23095	6	0	16QAM	6.16		6.8
707.5	1.4	23095	6	0	64QAM	5.20		7.8
707.5	3	23095	15	0	QPSK	5.48		7.5
707.5	3	23095	15	0	16QAM	6.28		6.7
707.5	3	23095	15	0	64QAM	5.40		7.6
707.5	5	23095	25	0	QPSK	5.40		7.6
707.5	5	23095	25	0	16QAM	6.16		6.8
707.5	5	23095	25	0	64QAM	5.36		7.6
707.5	10	23095	50	0	QPSK	5.48		7.5
707.5	10	23095	50	0	16QAM	6.40		6.6
707.5	10	23095	50	0	64QAM	5.40		7.6
Complies								

Margin = Limit - PAPR

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000426632
 4.92 dB



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	22.36 dBm
Peak	27.34 dBm
Crest	4.98 dB
10 %	2.84 dB
1 %	4.76 dB
.1 %	4.92 dB
.01 %	4.96 dB

Date: 22.APR.2021 12:17:45

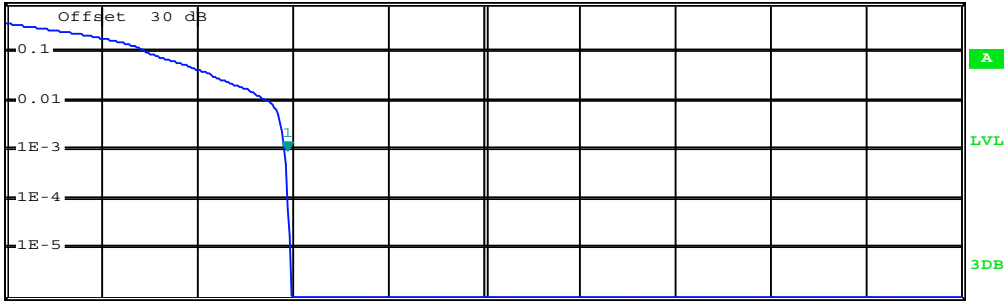
Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 4.92
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.001182901
 Ref 40 dBm *Att 10 dB AQT 3.125 ms Mean Pwr + 20 dB 5.84 dB

1 SA
 VIEW



Center 707.04 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.44 dBm
 Peak 27.41 dBm
 Crest 5.96 dB

10 % 3.04 dB
 1 % 5.52 dB
 .1 % 5.84 dB
 .01 % 5.92 dB

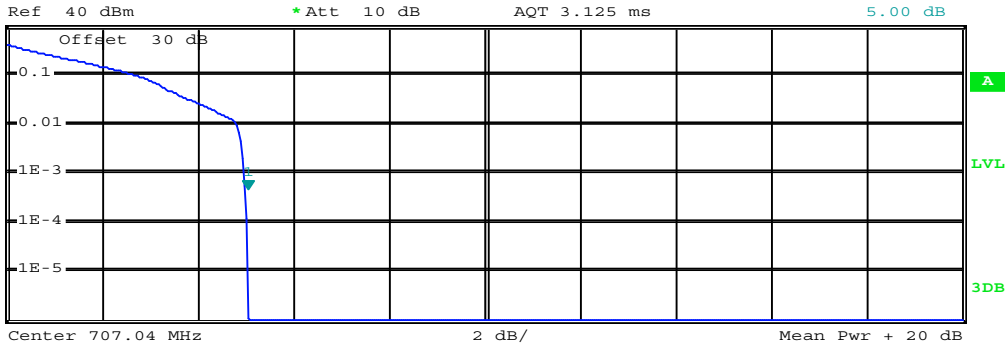
Date: 22.APR.2021 12:18:34

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.84
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000563489
 *Att 10 dB
 AQT 3.125 ms
 5.00 dB



1 SA
 VIEW

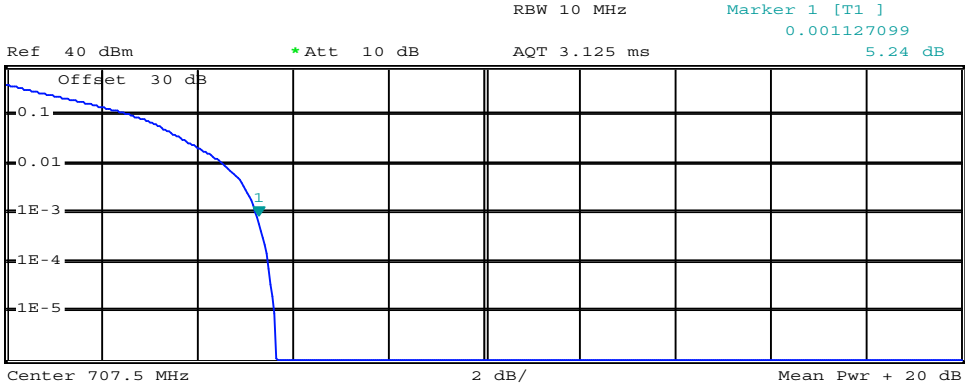
Complementary Cumulative Distribution Function (100000 samples)
 Trace 1
 Mean 21.03 dBm
 Peak 26.07 dBm
 Crest 5.04 dB

10 %	2.80 dB
1 %	4.84 dB
.1 %	5.00 dB
.01 %	5.04 dB

Date: 22.APR.2021 12:19:22

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5
EARFCN: 23095	Resource Blocks (RB): 1	
RB Offset: 3	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.75 dBm
Peak 27.41 dBm
Crest 5.66 dB

10 % 2.72 dB
1 % 4.60 dB
.1 % 5.24 dB
.01 % 5.52 dB

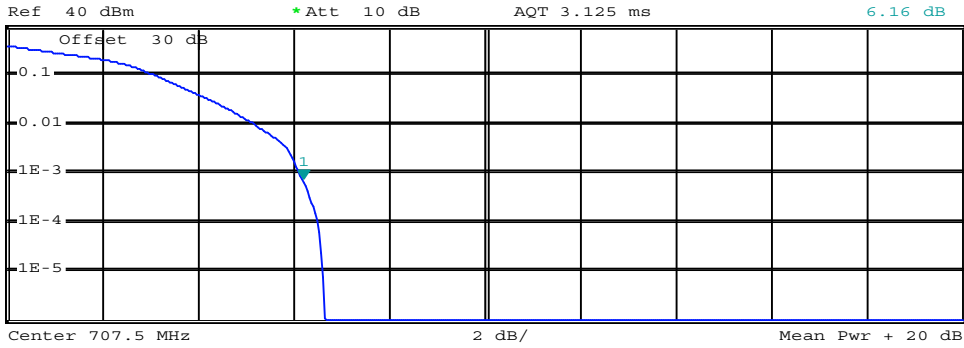
Date: 22.APR.2021 12:23:50

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	PAPR (dBm): 5.24
EARFCN: 23095	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000949572
 6.16 dB



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

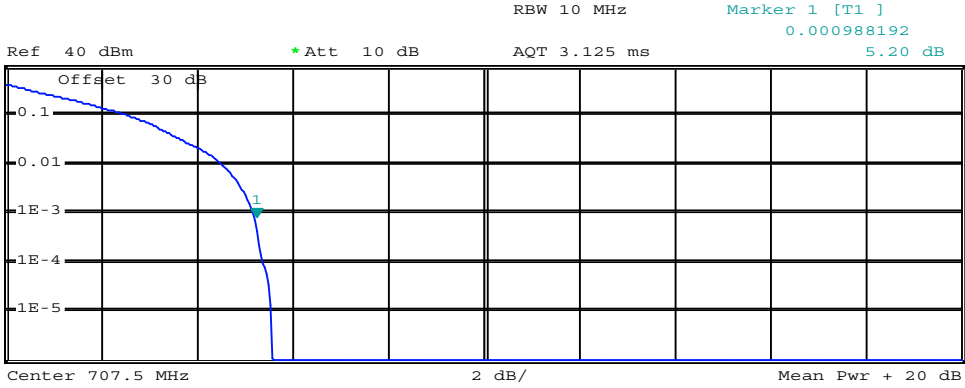
Mean 20.90 dBm
 Peak 27.55 dBm
 Crest 6.65 dB

10 % 3.16 dB
 1 % 5.24 dB
 .1 % 6.16 dB
 .01 % 6.52 dB

Date: 22.APR.2021 12:22:01

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 6.16
EARFCN: 23095	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.79 dBm
 Peak 25.36 dBm
 Crest 5.57 dB

10 % 2.64 dB
 1 % 4.52 dB
 .1 % 5.20 dB
 .01 % 5.40 dB

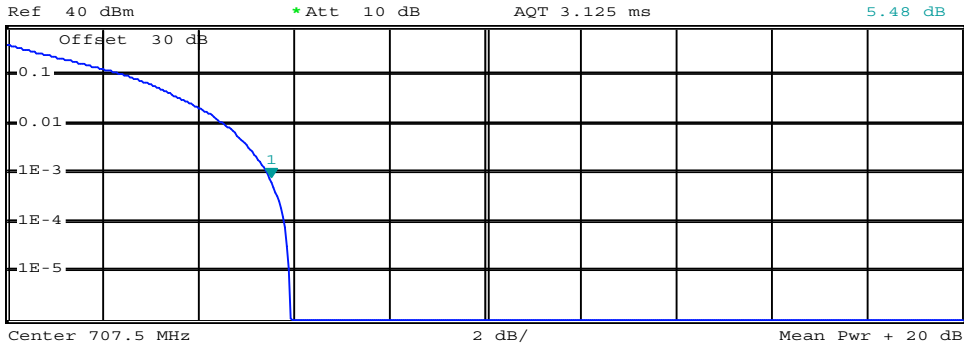
Date: 22.APR.2021 12:20:58

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 1.4	PAPR (dB): 5.2
EARFCN: 23095	Resource Blocks (RB): 6	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000987927
 5.48 dB



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean	21.67 dBm
Peak	27.62 dBm
Crest	5.95 dB
10 %	2.56 dB
1 %	4.60 dB
.1 %	5.48 dB
.01 %	5.84 dB

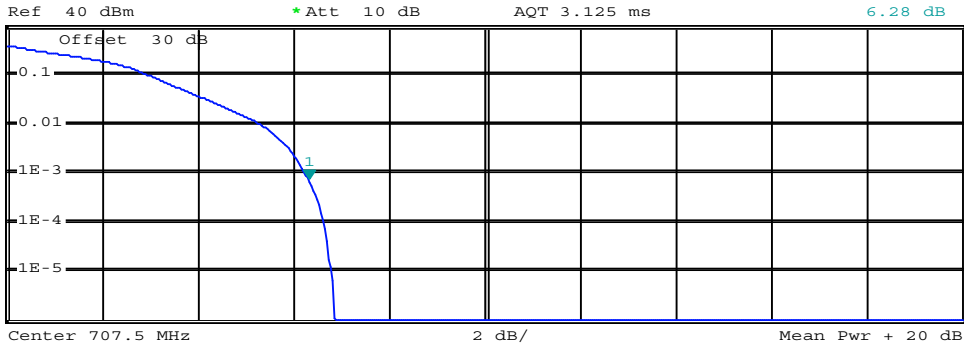
Date: 22.APR.2021 12:24:55

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 3.0	PAPR (dB): 5.48
EARFCN: 23095	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000956050
 6.28 dB



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.46 dBm
 Peak 27.34 dBm
 Crest 6.87 dB

10 % 3.04 dB
 1 % 5.36 dB
 .1 % 6.28 dB
 .01 % 6.64 dB

Date: 22.APR.2021 12:25:56

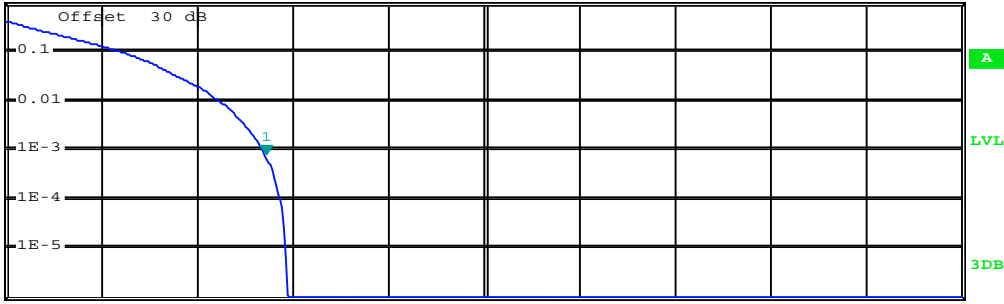
Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 3.0	PAPR (dB): 6.28
EARFCN: 23095	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000971328
 Ref 40 dBm *Att 10 dB AQT 3.125 ms 5.40 dB

1 SA
 VIEW



Center 707.5 MHz 2 dB/ Mean Pwr + 20 dB

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

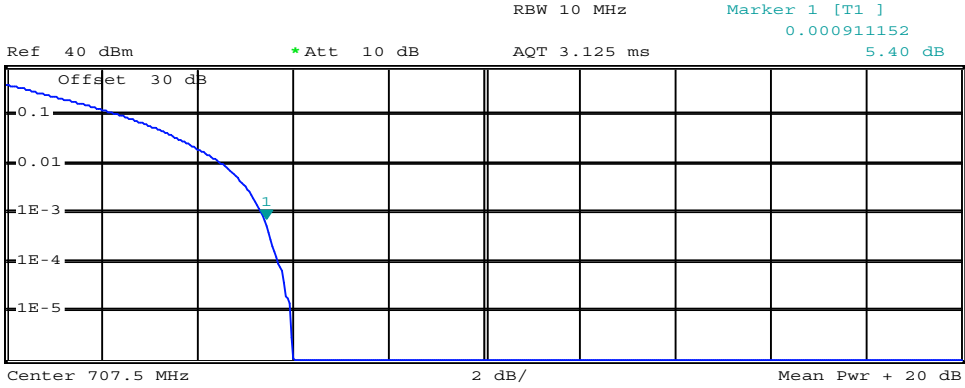
Mean 19.73 dBm
 Peak 25.64 dBm
 Crest 5.92 dB

10 % 2.56 dB
 1 % 4.52 dB
 .1 % 5.40 dB
 .01 % 5.76 dB

Date: 22.APR.2021 12:26:41

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 3.0	PAPR (dB): 5.4
EARFCN: 23095	Resource Blocks (RB): 15	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



1 SA VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.62 dBm
 Peak 27.62 dBm
 Crest 6.00 dB

10 % 2.52 dB
 1 % 4.56 dB
 .1 % 5.40 dB
 .01 % 5.72 dB

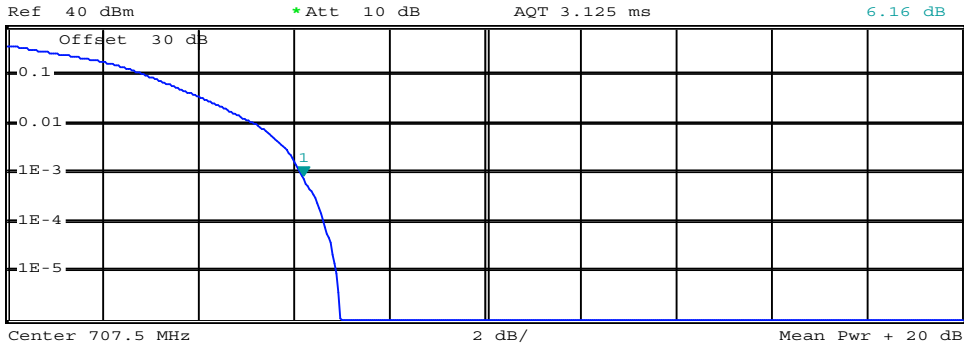
Date: 22.APR.2021 12:29:14

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 5.0	PAPR (dB): 5.4
EARFCN: 23095	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.001085874
 6.16 dB



1 SA
 VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

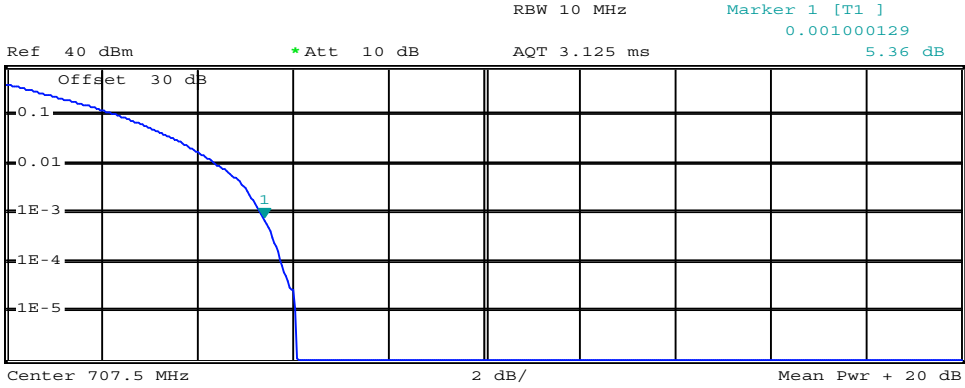
Mean 20.58 dBm
 Peak 27.55 dBm
 Crest 6.97 dB

10 % 3.00 dB
 1 % 5.24 dB
 .1 % 6.16 dB
 .01 % 6.64 dB

Date: 22.APR.2021 12:28:27

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 5.0	PAPR (dB): 6.16
EARFCN: 23095	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

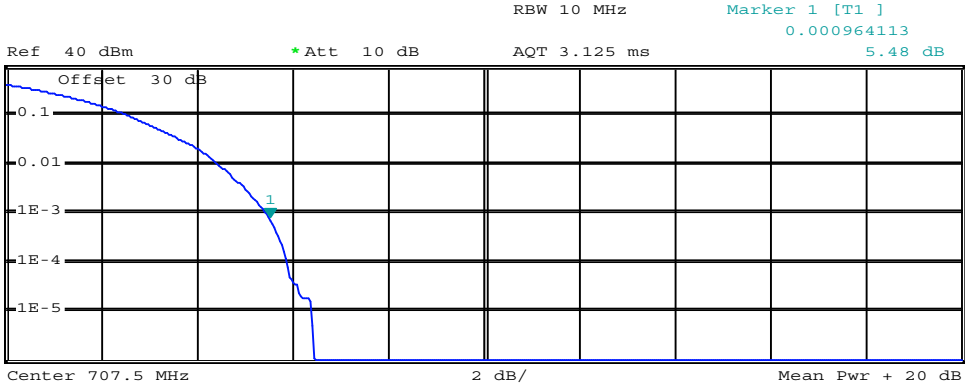
Mean 19.69 dBm
 Peak 25.78 dBm
 Crest 6.09 dB

10 % 2.44 dB
 1 % 4.44 dB
 .1 % 5.36 dB
 .01 % 5.80 dB

Date: 22.APR.2021 12:27:39

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 5.0	PAPR (dB): 5.36
EARFCN: 23095	Resource Blocks (RB): 25	
RB Offset: 0	Modulation: 64QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



1 SA
VIEW

A
LVL
3DB

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

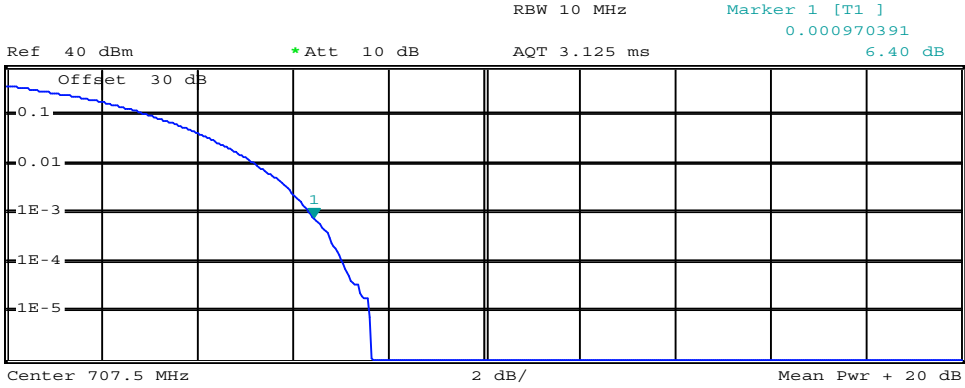
Mean 21.39 dBm
Peak 27.83 dBm
Crest 6.45 dB

10 % 2.64 dB
1 % 4.48 dB
.1 % 5.48 dB
.01 % 5.88 dB

Date: 22.APR.2021 12:30:25

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 10.0	PAPR (dB): 5.48
EARFCN: 23095	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: QPSK	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



1 SA
VIEW

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 20.39 dBm
Peak 28.04 dBm
Crest 7.65 dB

10 % 3.08 dB
1 % 5.28 dB
.1 % 6.40 dB
.01 % 7.08 dB

Date: 22.APR.2021 12:31:35

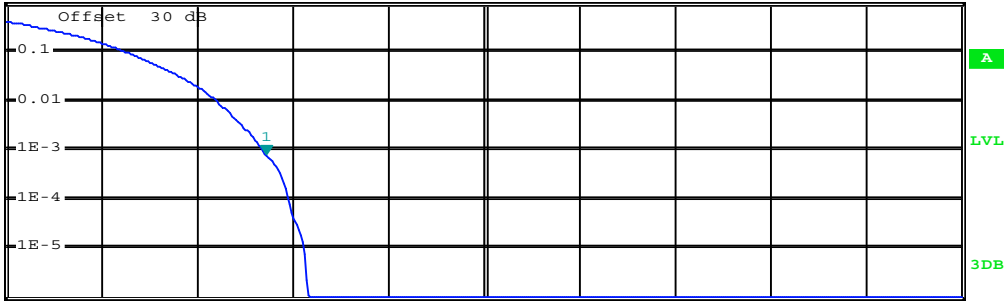
Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 10.0	PAPR (dB): 6.4
EARFCN: 23095	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 16QAM	

Peak-To-Average Power Ratio (PAPR) LTE Band 12



RBW 10 MHz
 Marker 1 [T1]
 0.000972586
 Ref 40 dBm *Att 10 dB AQT 3.125 ms Mean Pwr + 20 dB 5.40 dB

1 SA
 VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.39 dBm
 Peak 25.71 dBm
 Crest 6.32 dB

10 % 2.60 dB
 1 % 4.44 dB
 .1 % 5.40 dB
 .01 % 5.92 dB

Date: 22.APR.2021 12:32:22

Channel Frequency (MHz): 707.5	Channel Bandwidth (MHz): 10.0	PAPR (dB): 5.4
EARFCN: 23095	Resource Blocks (RB): 50	
RB Offset: 0	Modulation: 64QAM	