

PAPR Measurement Results

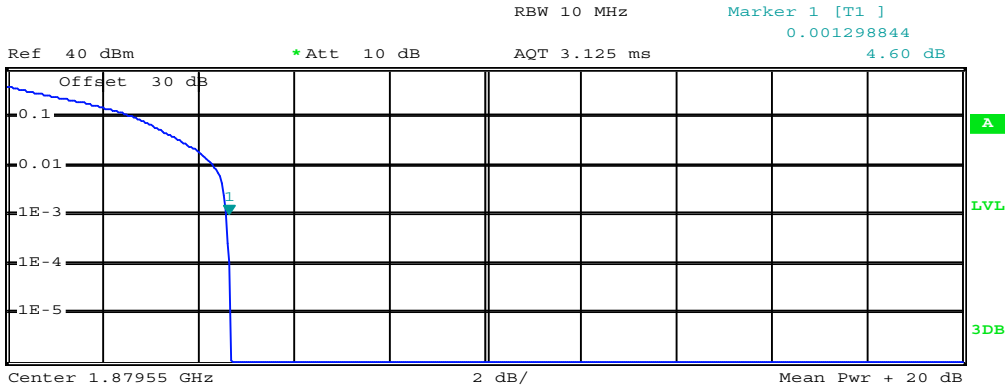
Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured PAPR (dB)	Limit (dB)	Margin (dB)
1880	1.4	18900	1	3	QPSK	4.60	13.00	8.4
1880	1.4	18900	1	3	16QAM	5.64		7.4
1880	1.4	18900	1	3	64QAM	4.84		8.2
1880	1.4	18900	6	0	QPSK	5.20		7.8
1880	1.4	18900	6	0	16QAM	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



1 SA
VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

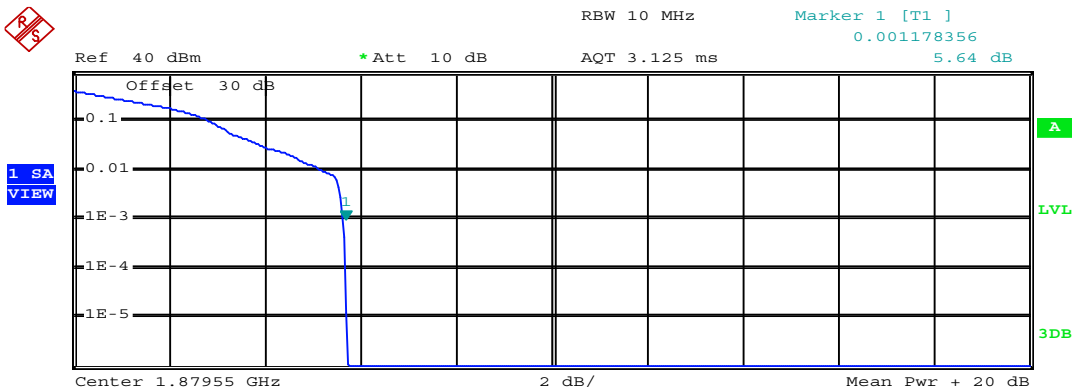
Mean 21.65 dBm
Peak 26.35 dBm
Crest 4.70 dB

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



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**

EARFCN: **18900**

Resource Blocks (RB): **1**

RB Offset: **3**

Modulation: **16QAM**

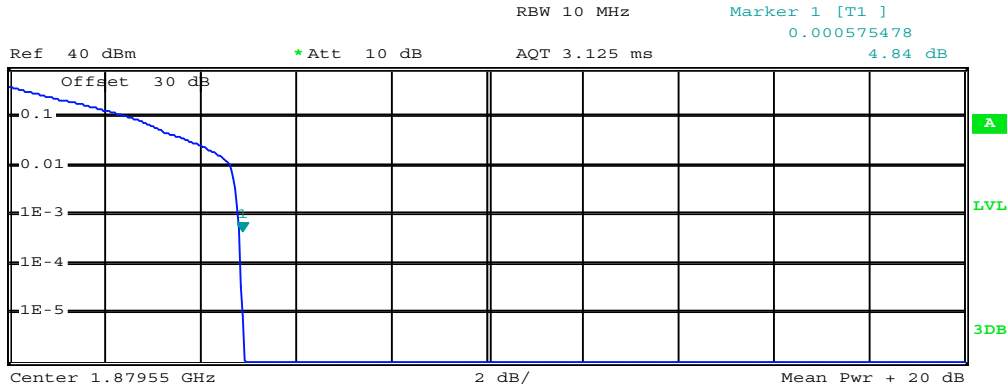
PAPR (dB):

5.64

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



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**

EARFCN: **18900**

Resource Blocks (RB): **1**

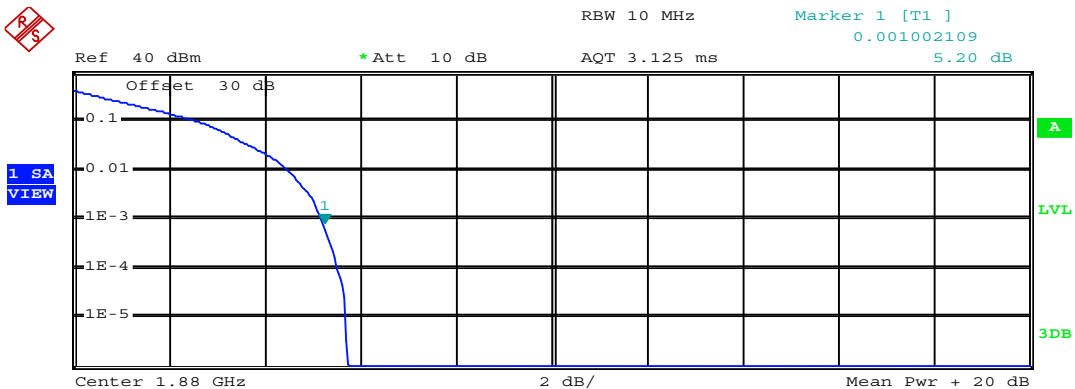
RB Offset: **3**

Modulation: **64QAM**

PAPR (dB):

4.84

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



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**

EARFCN: **18900**

Resource Blocks (RB): **6**

RB Offset: **0**

Modulation: **QPSK**

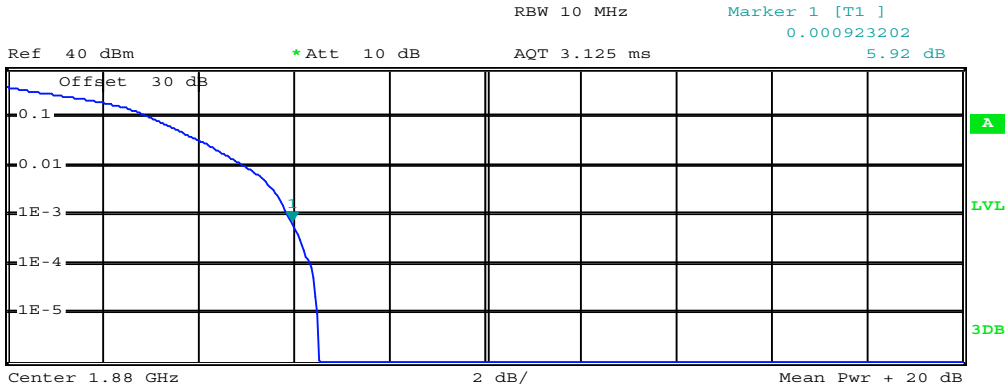
PAPR (dBm):

5.2

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
EARFCN: 18900	Resource Blocks (RB): 6
RB Offset: 0	Modulation: 16QAM

PAPR (dB):	5.92
------------	-------------

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



RBW 10 MHz

Marker 1 [T1]

0.001033302

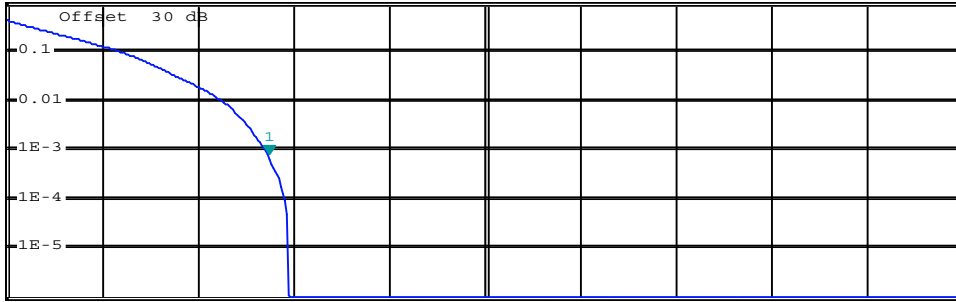
Ref 40 dBm

*Att 10 dB

AQT 3.125 ms

5.44 dB

1 SA
VIEW



Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB

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**

EARFCN: **18900**

Resource Blocks (RB): **6**

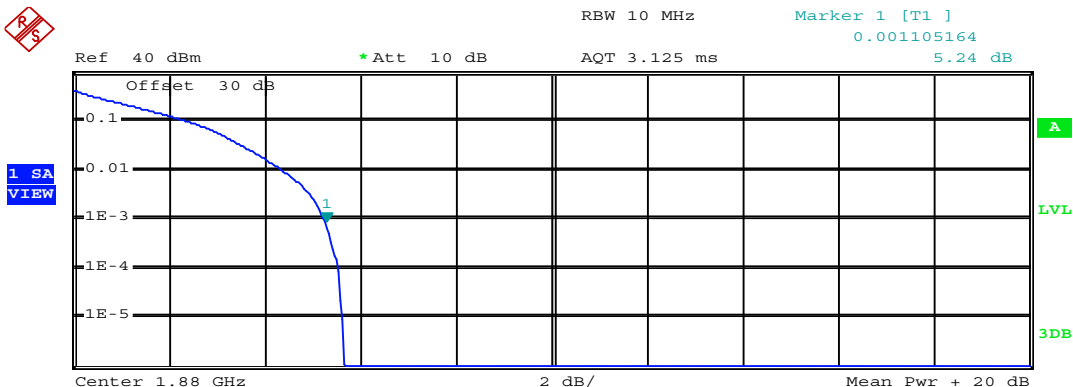
RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

5.44

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



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**

EARFCN: **18900**

Resource Blocks (RB): **15**

RB Offset: **0**

Modulation: **QPSK**

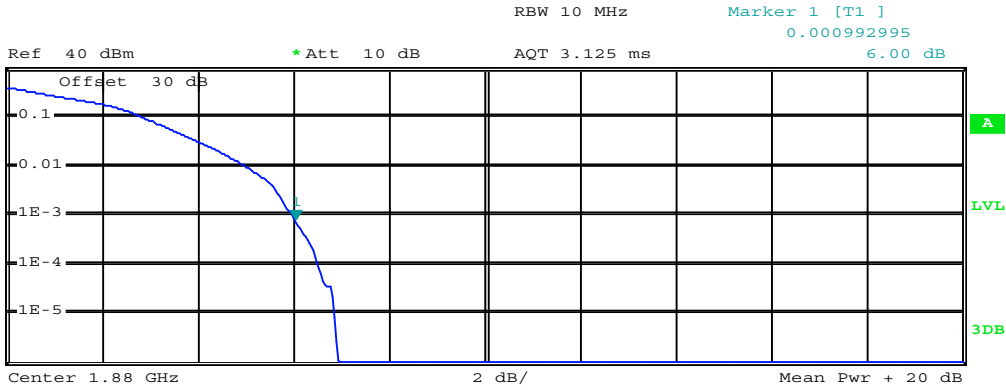
PAPR (dB):

5.24

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



1 SA
VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 19.99 dBm
 Peak 26.91 dBm
 Crest 6.93 dB

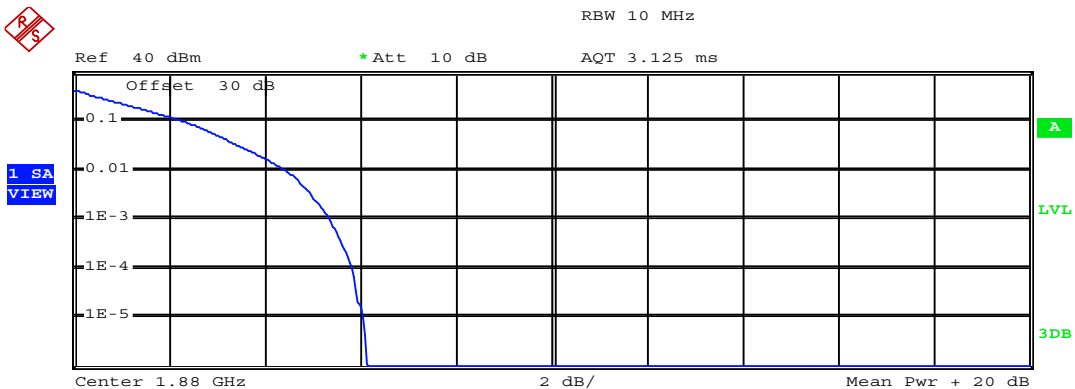
10 % 2.92 dB
 1 % 5.04 dB
 .1 % 6.00 dB
 .01 % 6.52 dB

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

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

PAPR (dB):	6
------------	---

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



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**

EARFCN: **18900**

Resource Blocks (RB): **15**

RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

5.36

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



RBW 10 MHz

Marker 1 [T1]

0.000938765

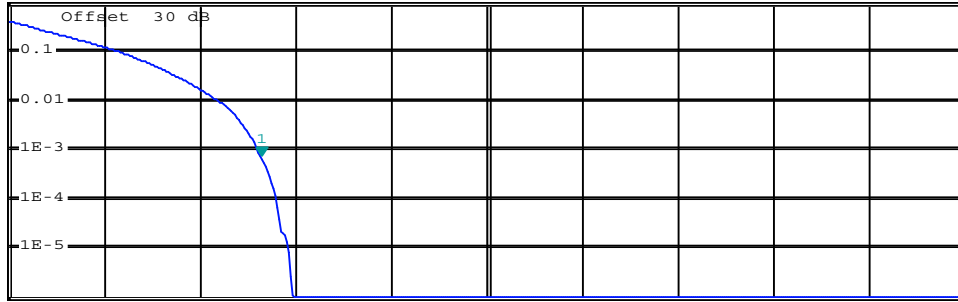
Ref 40 dBm

*Att 10 dB

AQT 3.125 ms

5.24 dB

1 SA
VIEW



A

LVL

3DB

Center 1.88 GHz 2 dB/ Mean Pwr + 20 dB

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**

EARFCN: **18900**

Resource Blocks (RB): **25**

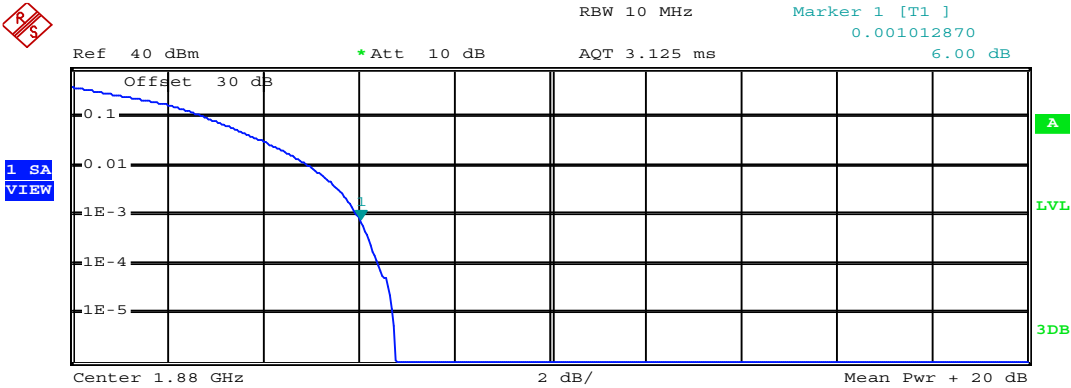
RB Offset: **0**

Modulation: **QPSK**

PAPR (dB):

5.24

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



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**

EARFCN: **18900**

Resource Blocks (RB): **25**

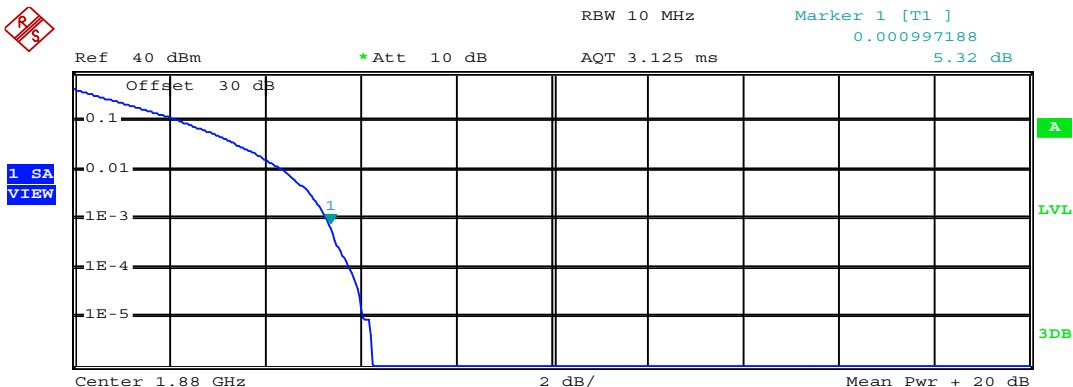
RB Offset: **0**

Modulation: **16QAM**

PAPR (dB):

6

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



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**

EARFCN: **18900**

Resource Blocks (RB): **25**

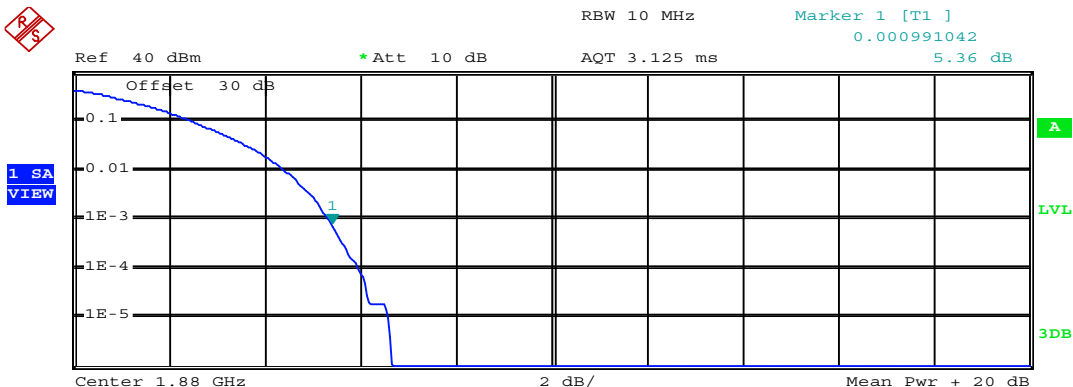
RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

5.32

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



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**

EARFCN: **18900**

Resource Blocks (RB): **50**

RB Offset: **0**

Modulation: **QPSK**

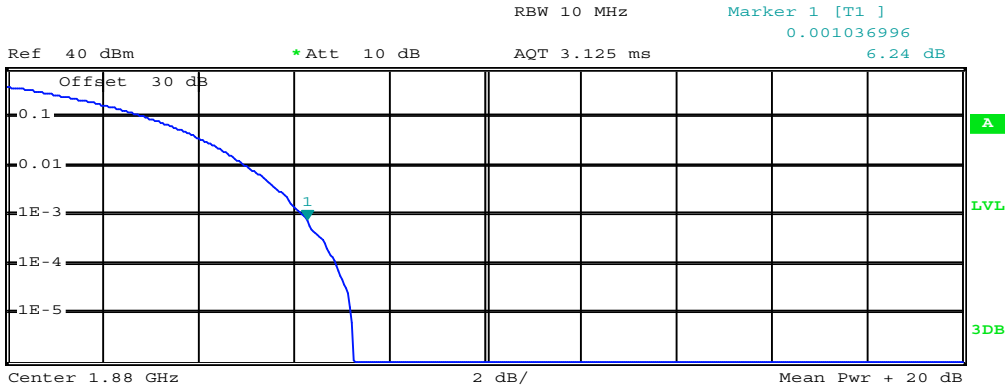
PAPR (dB):

5.36

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

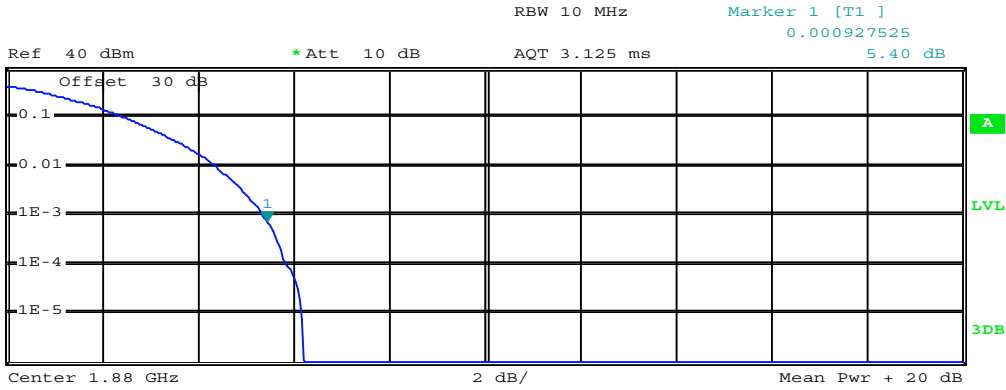
Date: 22.APR.2021 11:20:47

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

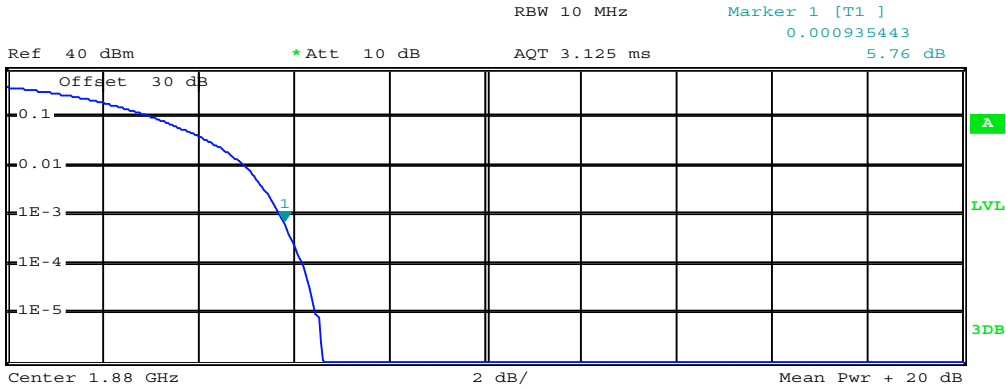
Channel Frequency (MHz): 1880.0	Channel Bandwidth (MHz): 10.0
EARFCN: 18900	Resource Blocks (RB): 50
RB Offset: 0	Modulation: 64QAM

PAPR (dB):	5.4
------------	------------

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

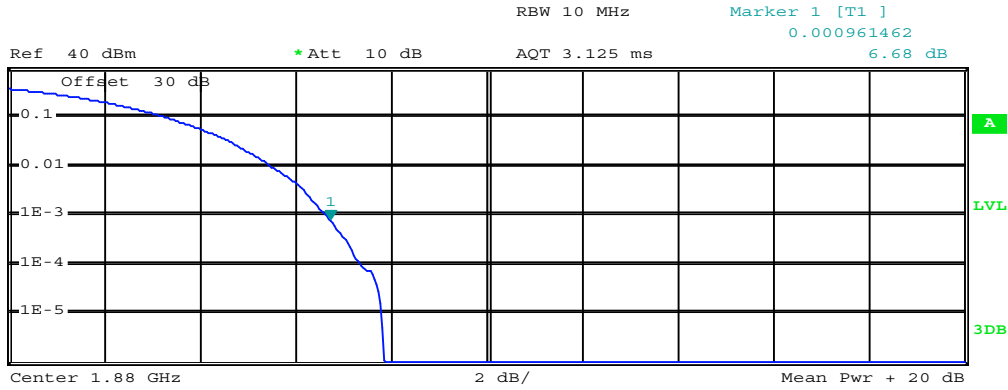
Date: 22.APR.2021 11:27:26

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



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**

EARFCN: **18900**

Resource Blocks (RB): **75**

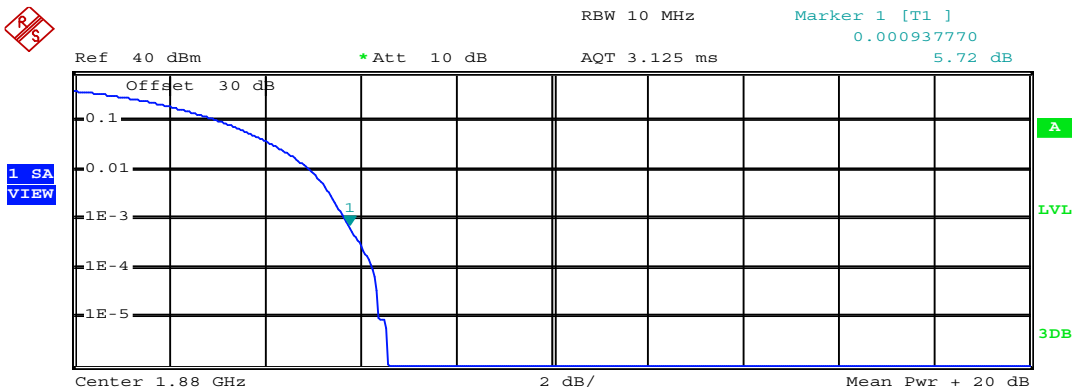
RB Offset: **0**

Modulation: **16QAM**

PAPR (dB):

6.68

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



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**

EARFCN: **18900**

Resource Blocks (RB): **75**

RB Offset: **0**

Modulation: **64QAM**

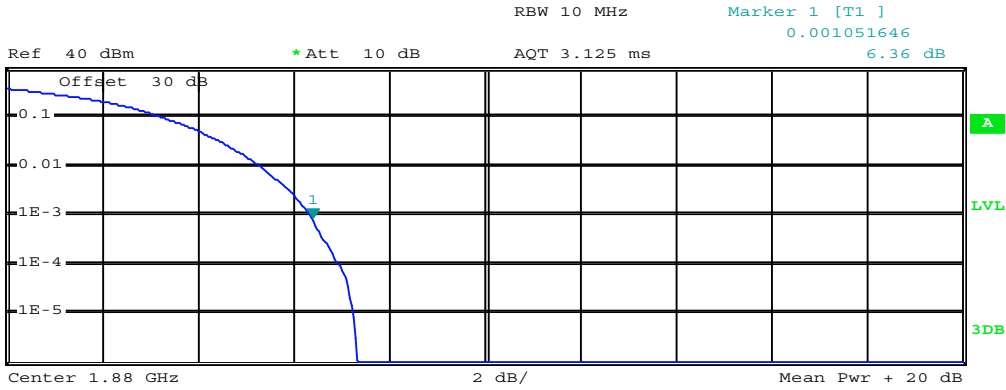
PAPR (dB):

5.72

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

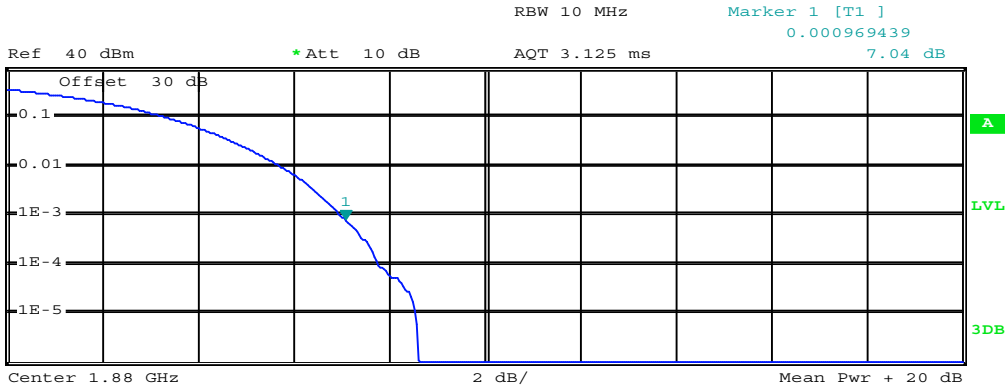
Date: 22.APR.2021 11:28:36

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



1 SA
VIEW



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

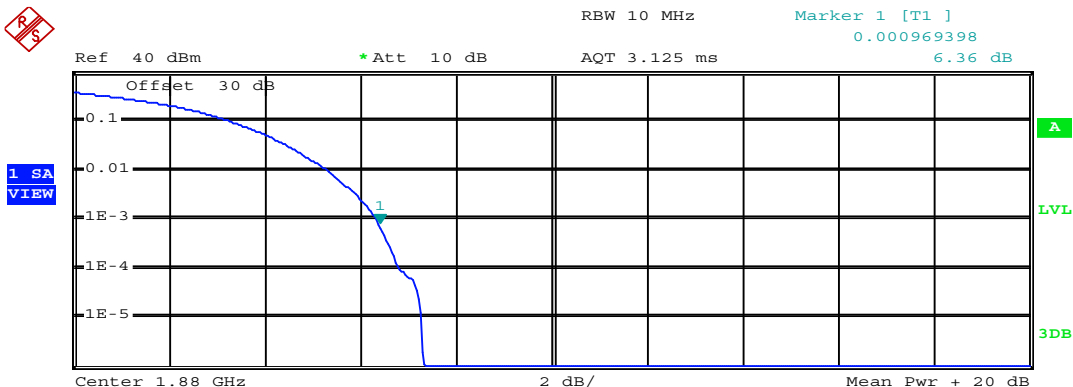
Mean 17.02 dBm
Peak 25.64 dBm
Crest 8.63 dB

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



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**

EARFCN: **18900**

Resource Blocks (RB): **100**

RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

6.36

PAPR Measurement Results

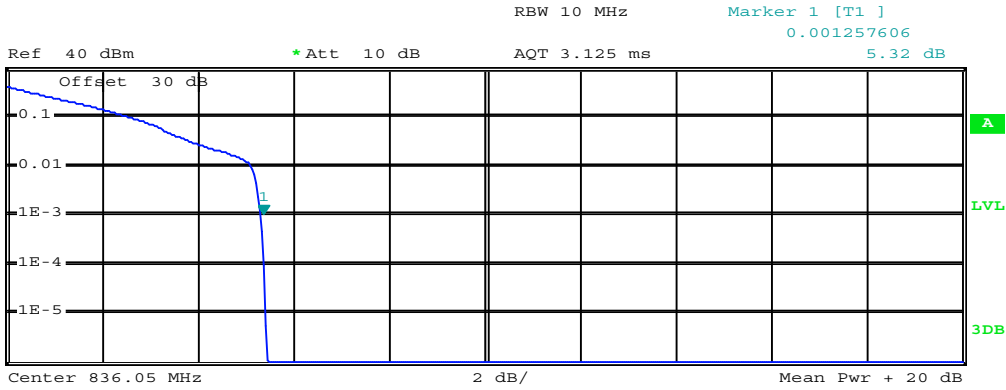
Channel Frequency (MHz)	Nominal Channel BW (MHz)	EARFCN	Resource Blocks	RB Offset	Modulation	Measured PAPR (dB)	Limit (dB)	Margin (dB)
836.5	1.4	20525	1	3	QPSK	5.32	13.00	7.7
836.5	1.4	20525	1	3	16QAM	6.28		6.7
836.5	1.4	20525	1	3	64QAM	5.20		7.8
836.5	1.4	20525	6	0	QPSK	5.76		7.2
836.5	1.4	20525	6	0	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



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

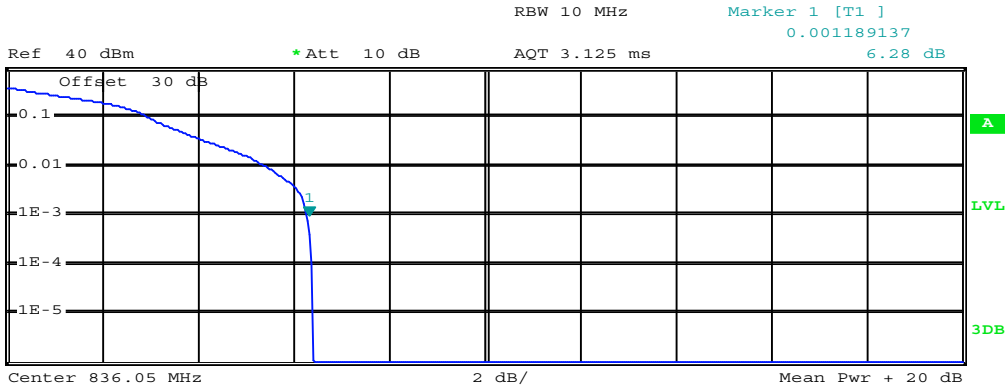
Channel Frequency (MHz):	836.5	Channel Bandwidth (MHz):	1.4
EARFCN:	20525	Resource Blocks (RB):	1
RB Offset:	3	Modulation:	QPSK

PAPR (dB):	5.32
------------	------

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



1 SA
CLRWR



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean 21.57 dBm
Peak 27.97 dBm
Crest 6.40 dB

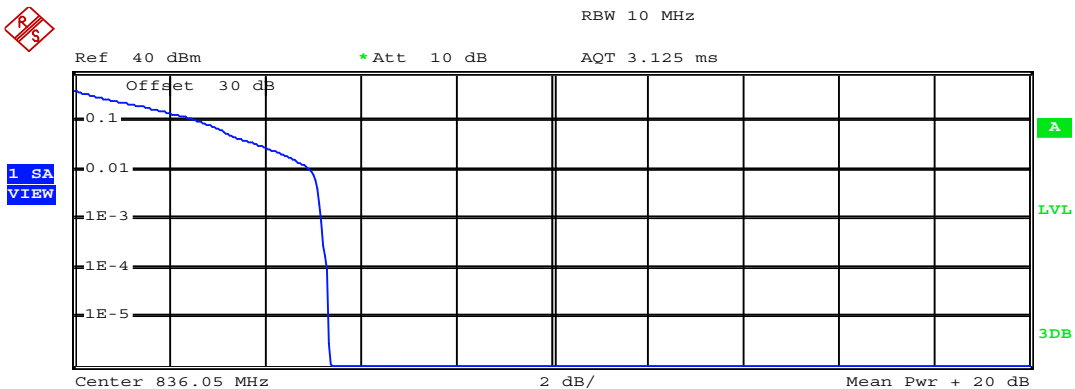
10 % 3.00 dB
1 % 5.48 dB
.1 % 6.28 dB
.01 % 6.40 dB

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

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

PAPR (dB):	6.28
------------	-------------

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



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**

EARFCN: **20525**

Resource Blocks (RB): **1**

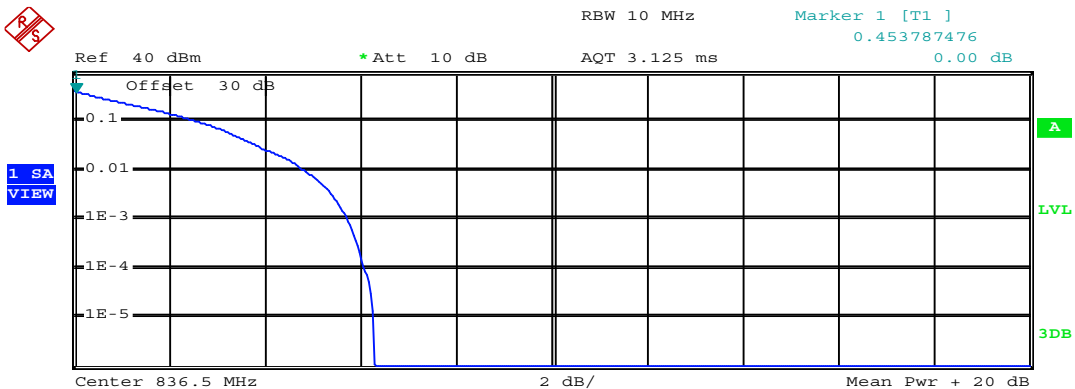
RB Offset: **3**

Modulation: **64QAM**

PAPR (dB):

5.2

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



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**

EARFCN: **20525**

Resource Blocks (RB): **6**

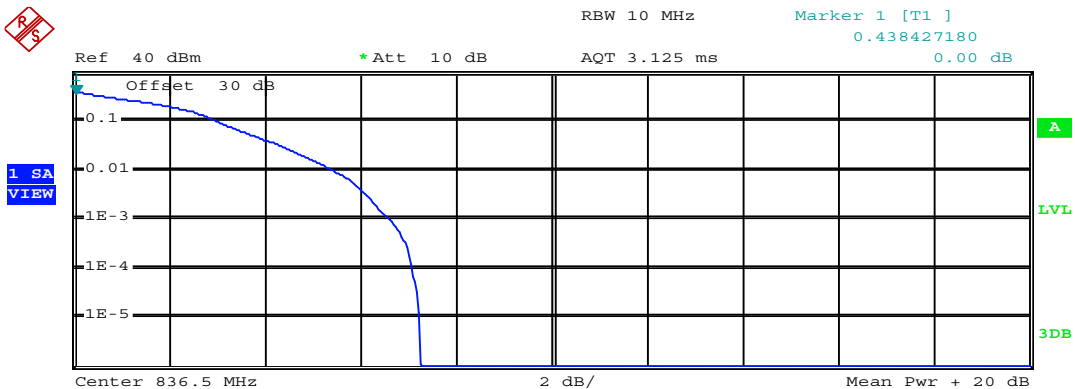
RB Offset: **0**

Modulation: **QPSK**

PAPR (dBm):

5.76

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**

EARFCN: **20525**

Resource Blocks (RB): **6**

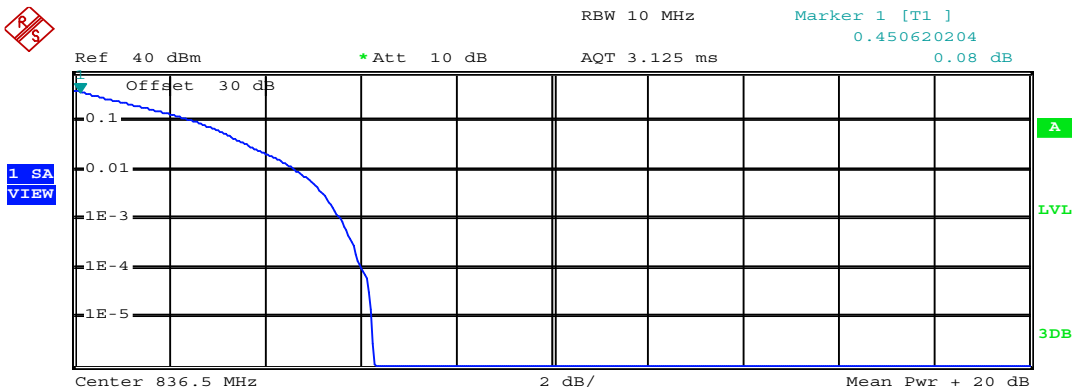
RB Offset: **0**

Modulation: **16QAM**

PAPR (dB):

6.64

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



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**

EARFCN: **20525**

Resource Blocks (RB): **6**

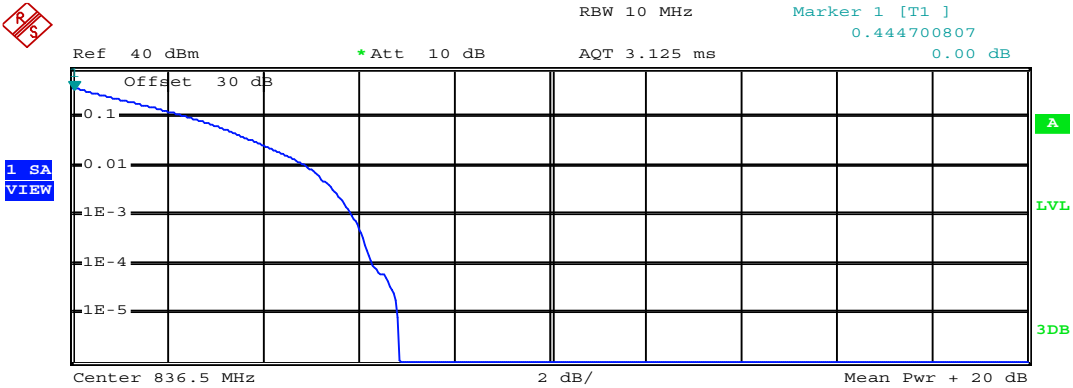
RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

5.6

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



Complementary Cumulative Distribution Function (100000 samples)

Trace 1

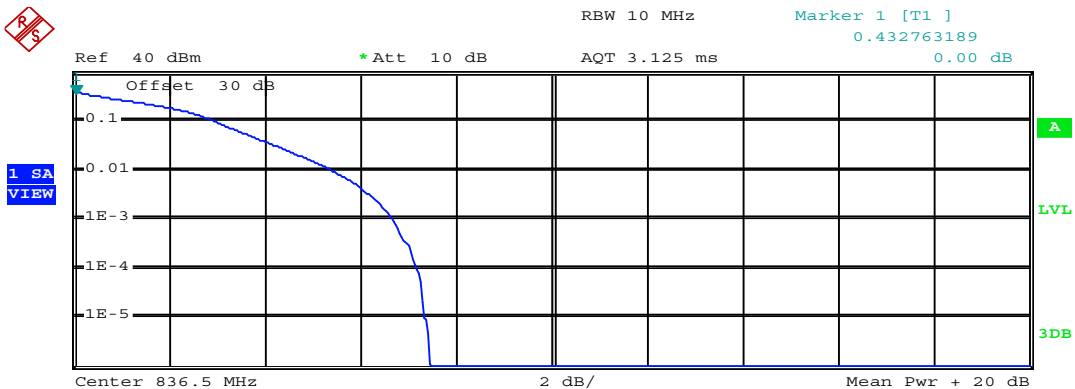
Mean 21.68 dBm
Peak 28.54 dBm
Crest 6.86 dB

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**

EARFCN: **20525**

Resource Blocks (RB): **15**

RB Offset: **0**

Modulation: **16QAM**

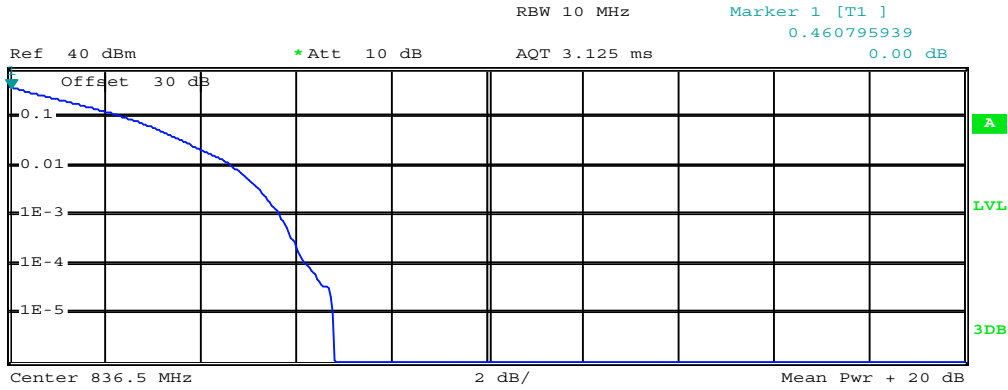
PAPR (dB):

6.68

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

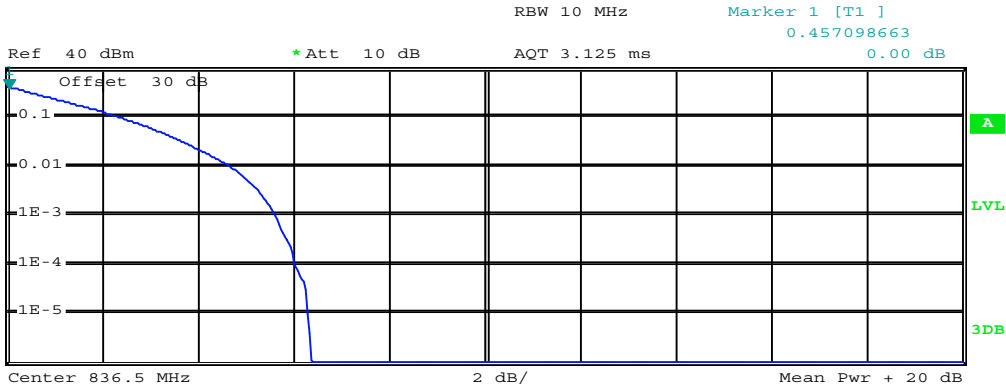
Channel Frequency (MHz):	836.5	Channel Bandwidth (MHz):	3.0
EARFCN:	20525	Resource Blocks (RB):	15
RB Offset:	0	Modulation:	64QAM

PAPR (dB):	5.68
------------	-------------

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

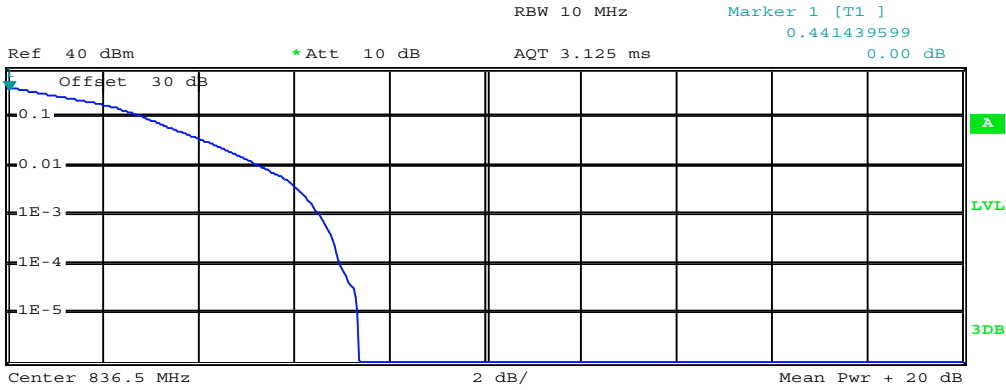
Date: 22.APR.2021 12:08:44

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

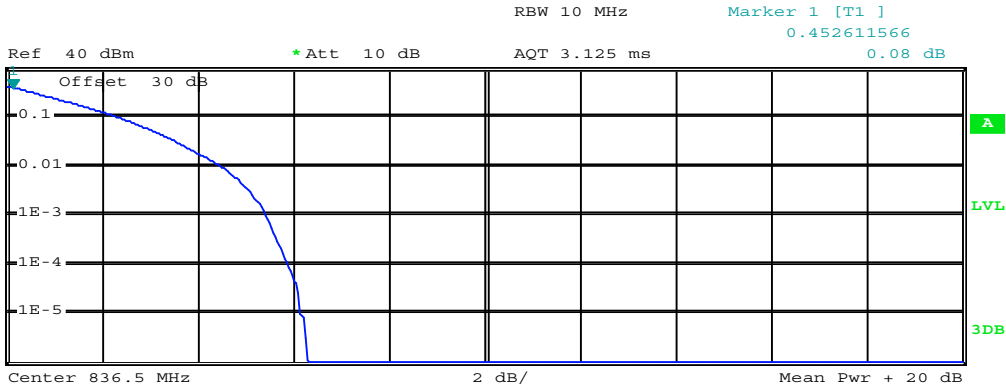
Date: 22.APR.2021 12:09:26

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

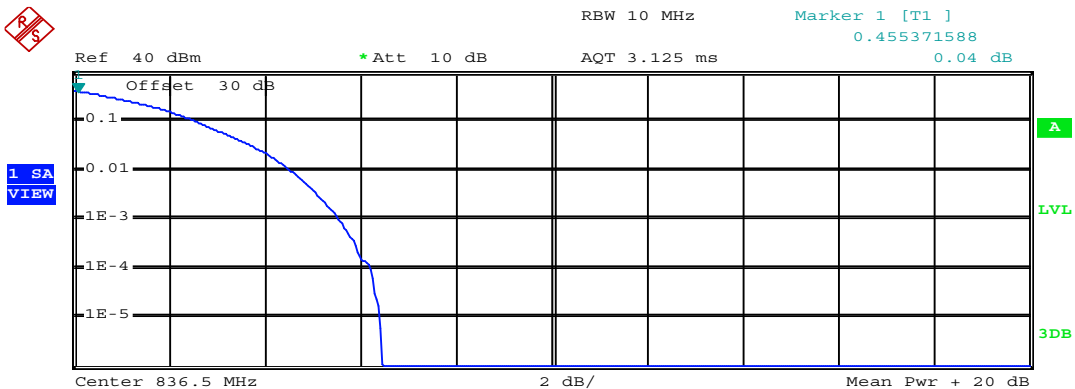
Mean 19.57 dBm
Peak 25.86 dBm
Crest 6.29 dB

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**

EARFCN: **20525**

Resource Blocks (RB): **50**

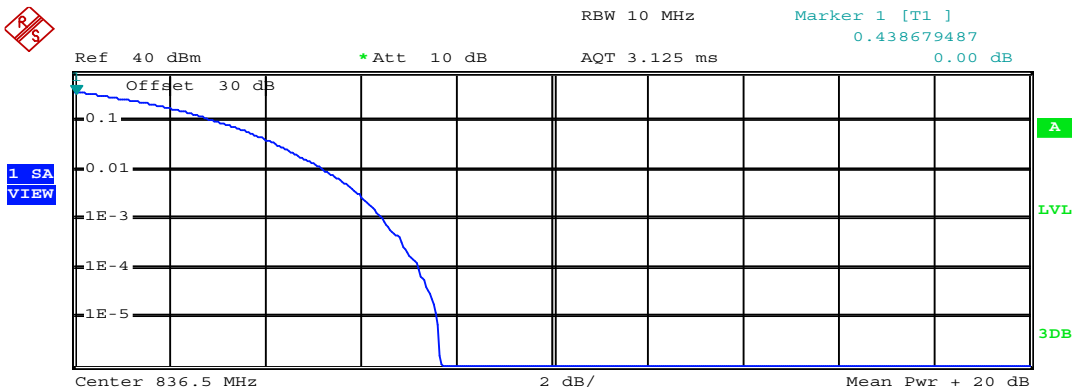
RB Offset: **0**

Modulation: **QPSK**

PAPR (dB):

5.56

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



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**

EARFCN: **20525**

Resource Blocks (RB): **50**

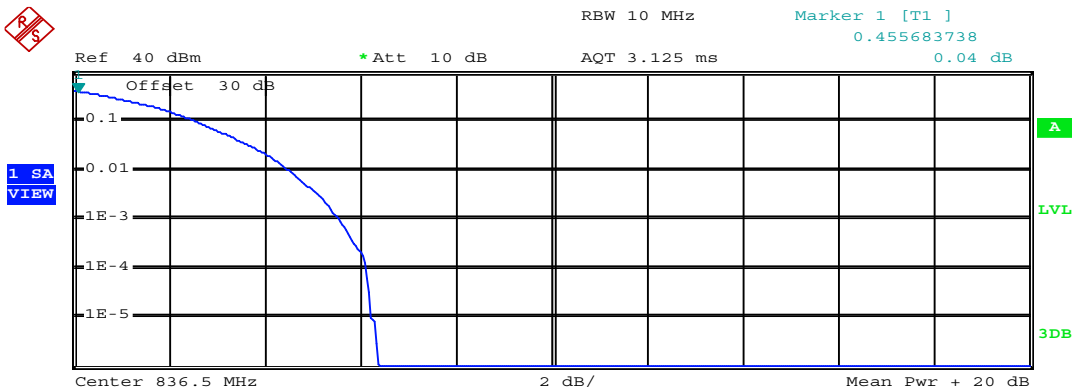
RB Offset: **0**

Modulation: **16QAM**

PAPR (dB):

6.52

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



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**

EARFCN: **20525**

Resource Blocks (RB): **50**

RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

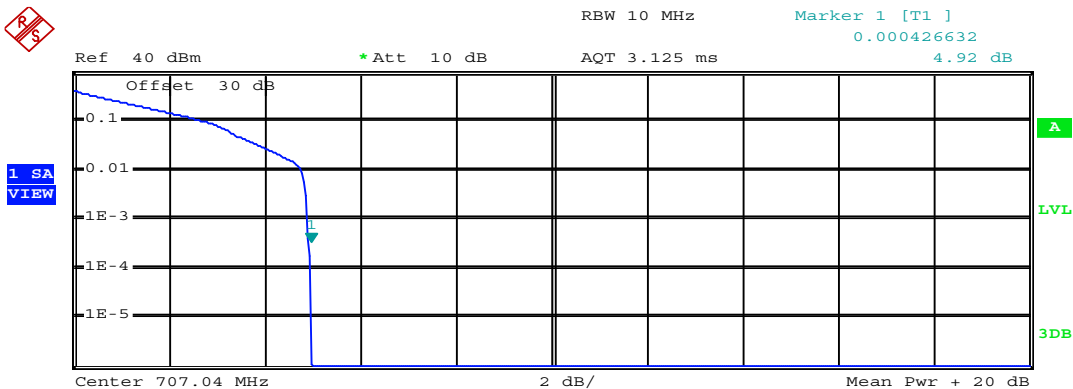
5.56

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



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**

EARFCN: **23095**

Resource Blocks (RB): **1**

RB Offset: **3**

Modulation: **QPSK**

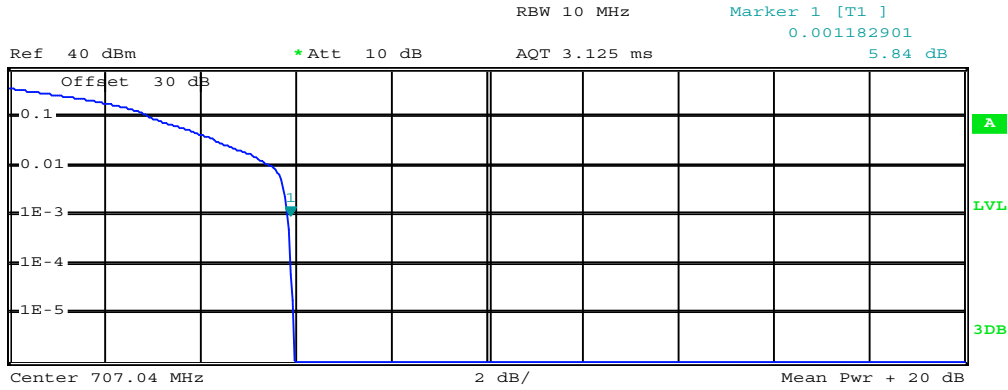
PAPR (dB):

4.92

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



1 SA
VIEW



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
EARFCN:	23095	Resource Blocks (RB):	1
RB Offset:	3	Modulation:	16QAM

PAPR (dB):	5.84
------------	-------------

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



RBW 10 MHz

Marker 1 [T1]

0.000563489

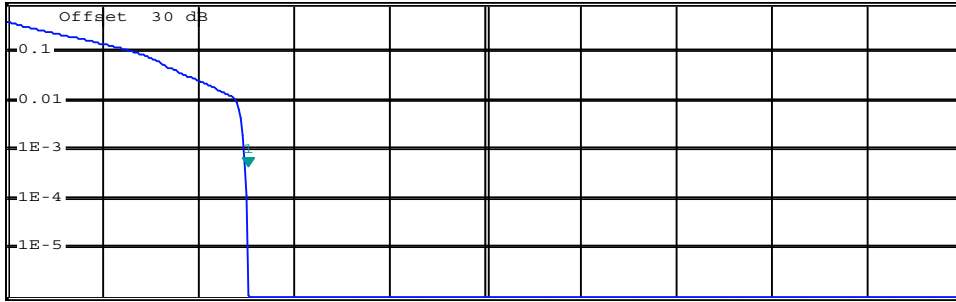
Ref 40 dBm

*Att 10 dB

AQT 3.125 ms

5.00 dB

1 SA
VIEW



A

LVL

3DB

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**

EARFCN: **23095**

Resource Blocks (RB): **1**

RB Offset: **3**

Modulation: **64QAM**

PAPR (dB):

5

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



RBW 10 MHz

Marker 1 [T1]

0.001127099

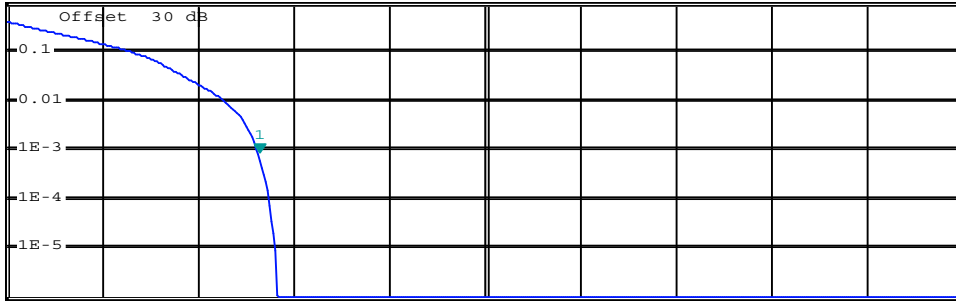
Ref 40 dBm

*Att 10 dB

AQT 3.125 ms

5.24 dB

1 SA
VIEW



A

LVL

3DB

Center 707.5 MHz

2 dB/

Mean Pwr + 20 dB

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**

EARFCN: **23095**

Resource Blocks (RB): **6**

RB Offset: **0**

Modulation: **QPSK**

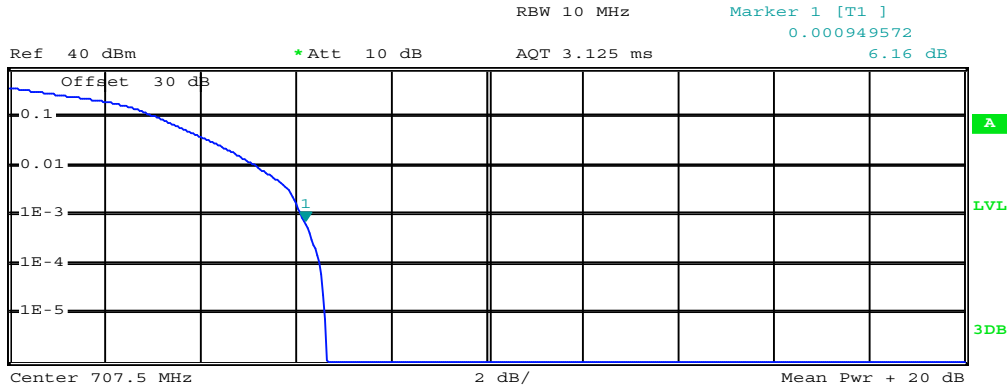
PAPR (dBm):

5.24

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



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**

EARFCN: **23095**

Resource Blocks (RB): **6**

RB Offset: **0**

Modulation: **16QAM**

PAPR (dB):

6.16

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



RBW 10 MHz

Marker 1 [T1]

0.000988192

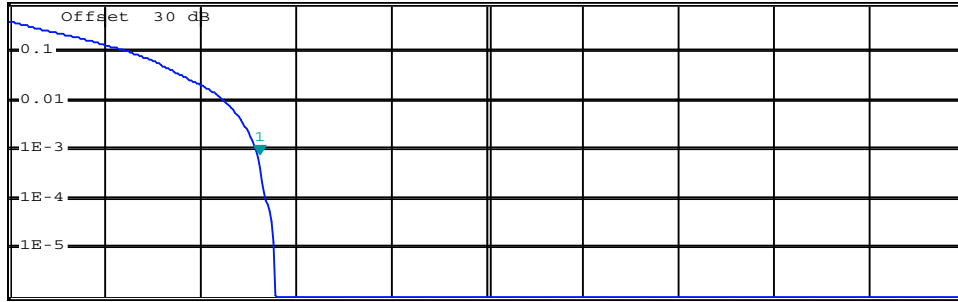
Ref 40 dBm

*Att 10 dB

AQT 3.125 ms

5.20 dB

1 SA
VIEW



A

LVL

3DB

Center 707.5 MHz 2 dB/ Mean Pwr + 20 dB

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**

EARFCN: **23095**

Resource Blocks (RB): **6**

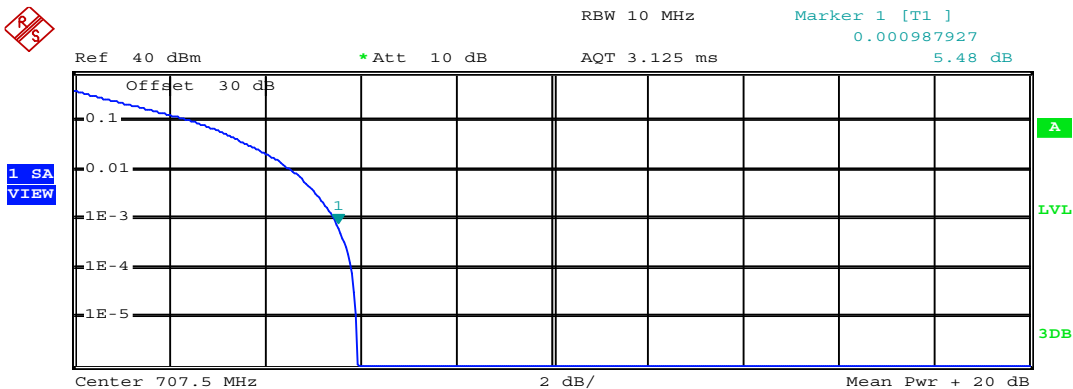
RB Offset: **0**

Modulation: **64QAM**

PAPR (dB):

5.2

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



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**

EARFCN: **23095**

Resource Blocks (RB): **15**

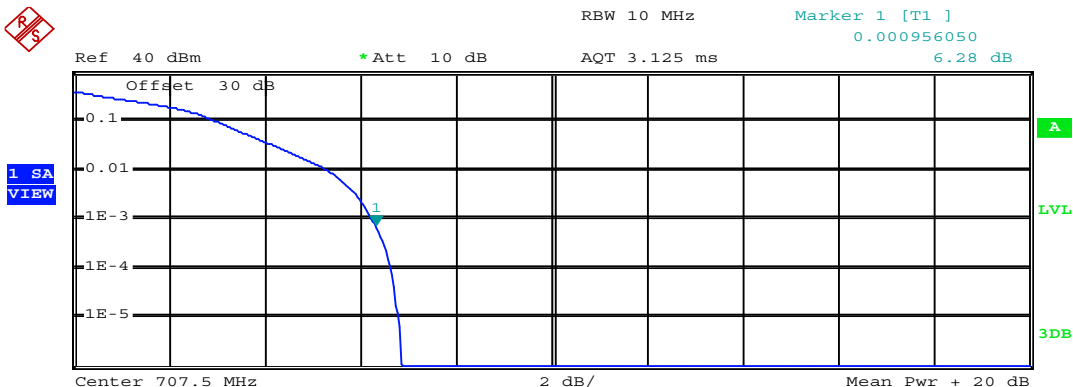
RB Offset: **0**

Modulation: **QPSK**

PAPR (dB):

5.48

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



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**

EARFCN: **23095**

Resource Blocks (RB): **15**

RB Offset: **0**

Modulation: **16QAM**

PAPR (dB):

6.28

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



RBW 10 MHz

Marker 1 [T1]

0.000971328

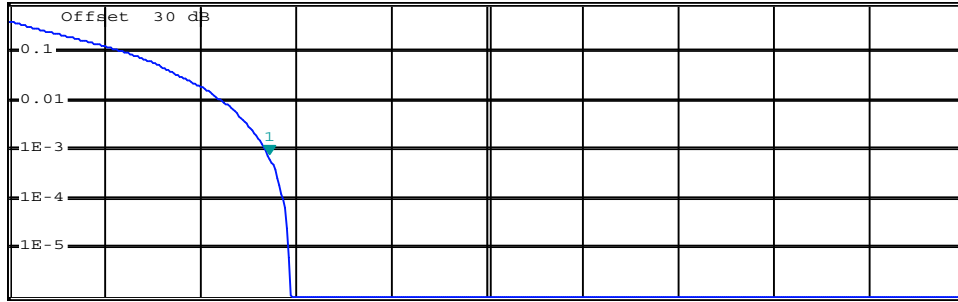
Ref 40 dBm

*Att 10 dB

AQT 3.125 ms

5.40 dB

1 SA
VIEW



A

LVL

3DB

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**

EARFCN: **23095**

Resource Blocks (RB): **15**

RB Offset: **0**

Modulation: **64QAM**

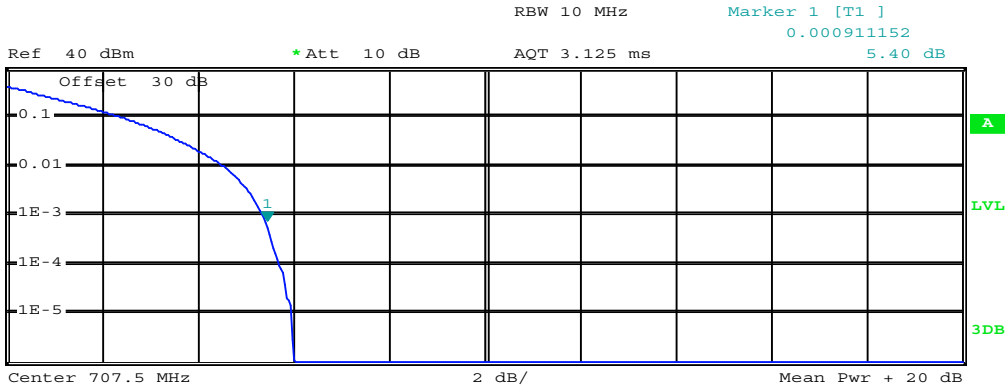
PAPR (dB):

5.4

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

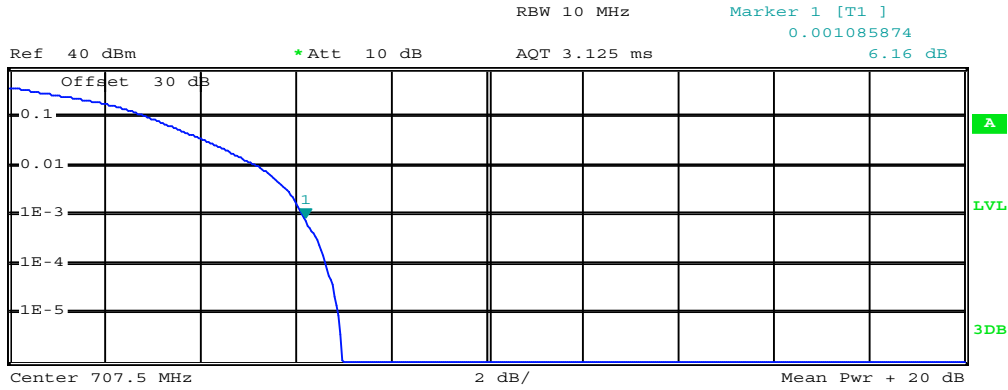
Channel Frequency (MHz):	707.5	Channel Bandwidth (MHz):	5.0
EARFCN:	23095	Resource Blocks (RB):	25
RB Offset:	0	Modulation:	QPSK

PAPR (dB):	5.4
------------	------------

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



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**

EARFCN: **23095**

Resource Blocks (RB): **25**

RB Offset: **0**

Modulation: **16QAM**

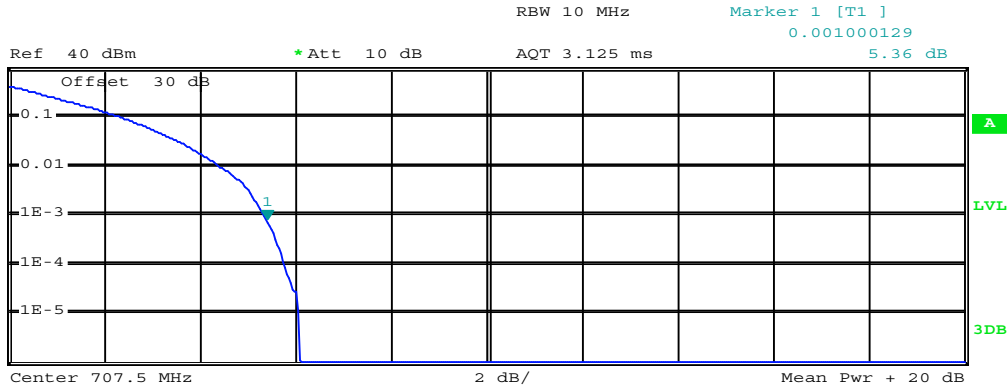
PAPR (dB):

6.16

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



1 SA
VIEW



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**

EARFCN: **23095**

Resource Blocks (RB): **25**

RB Offset: **0**

Modulation: **64QAM**

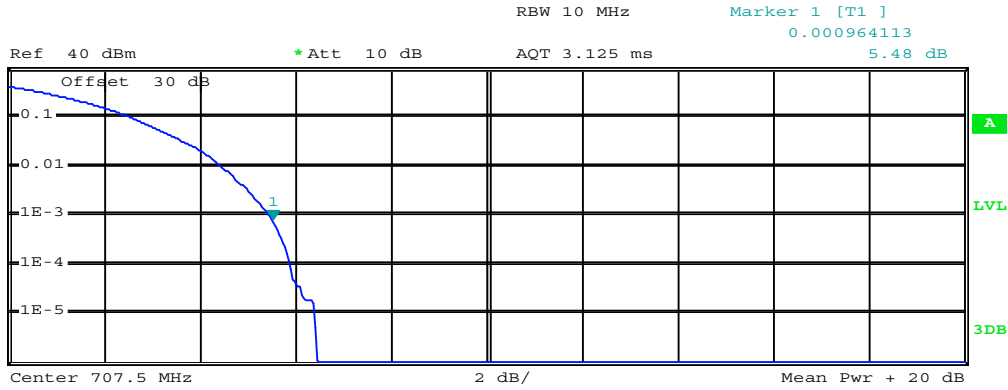
PAPR (dB):

5.36

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



1 SA
VIEW



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**

EARFCN: **23095**

Resource Blocks (RB): **50**

RB Offset: **0**

Modulation: **QPSK**

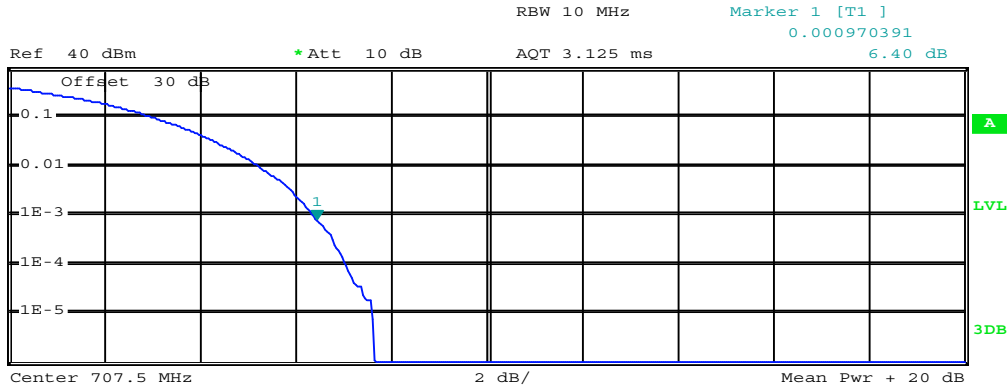
PAPR (dB):

5.48

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**

EARFCN: **23095**

Resource Blocks (RB): **50**

RB Offset: **0**

Modulation: **16QAM**

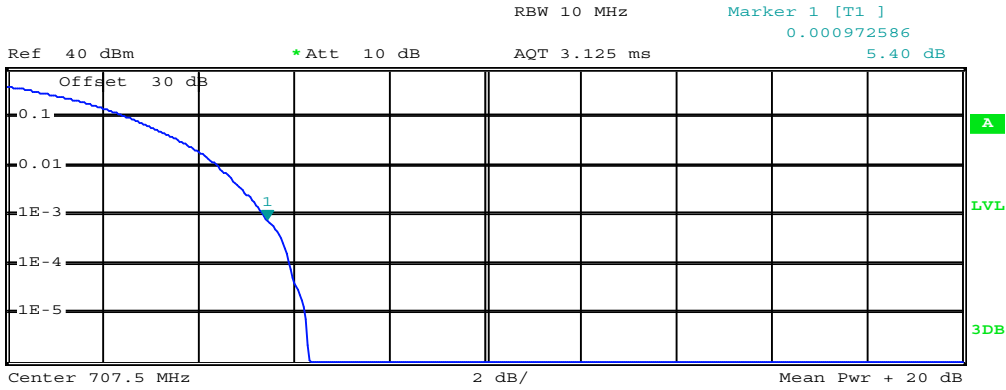
PAPR (dB):

6.4

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



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
EARFCN: 23095	Resource Blocks (RB): 50
RB Offset: 0	Modulation: 64QAM

PAPR (dB):	5.4
------------	------------