

APPENDIX-E UL BURST PEAK-TO-AVERAGE POWER RATIO PLOTS

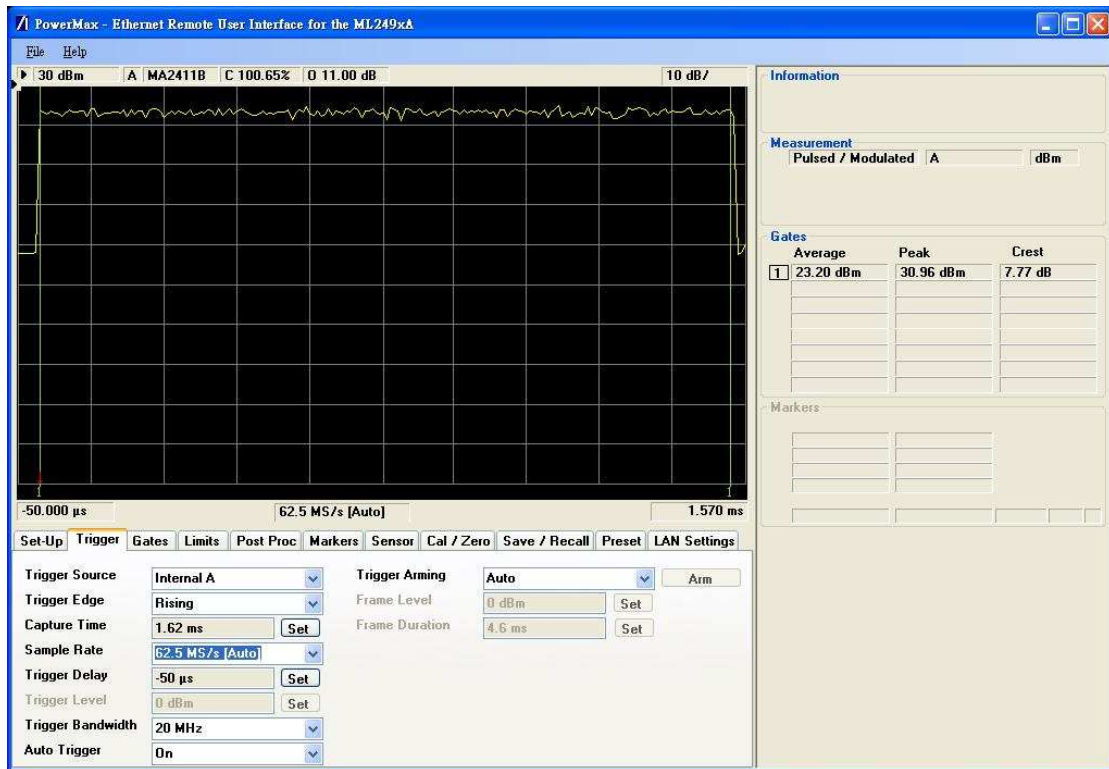
Peak to Average ration

Bandwidth	Frequency(MHz)	Modulation	Average	Peak	Peak to Average
5MHz	2505	QPSK 1/2	23.21	31.43	8.22
		16QAM 1/2	23.15	30.95	7.79
	2600	QPSK 1/2	23.2	30.96	7.77
		16QAM 1/2	23.31	30.81	7.49
	2685	QPSK 1/2	23.22	30.47	7.25
		16QAM 1/2	23.19	30.39	7.2
10MHz	2505	QPSK 1/2	23.07	30.94	7.88
		16QAM 1/2	23.21	30.97	7.76
	2600	QPSK 1/2	23.13	30.74	7.61
		16QAM 1/2	23.03	30.67	7.63
	2685	QPSK 1/2	23.19	30.31	7.12
		16QAM 1/2	23.2	30.32	7.12

Please note that only middle channel plots are included below. H/L channel plots are available upon request. Thanks.

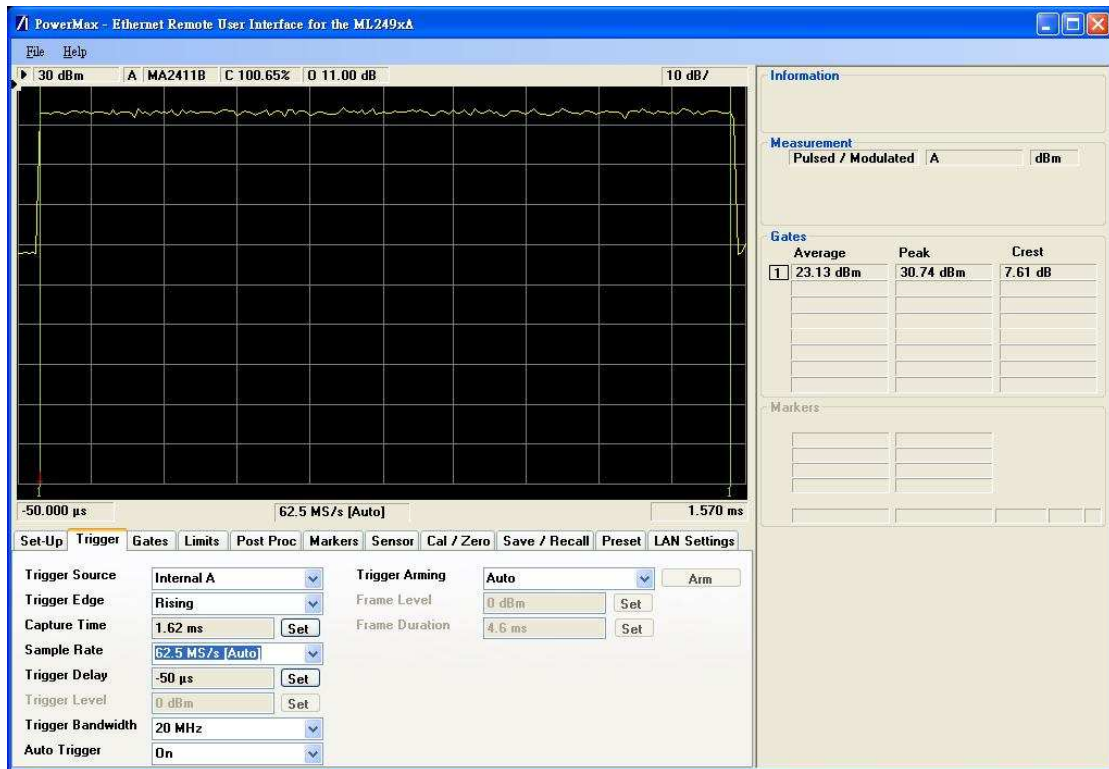
Bandwidth 5MHz / Modulation : QPSK 1/2

2600MHz



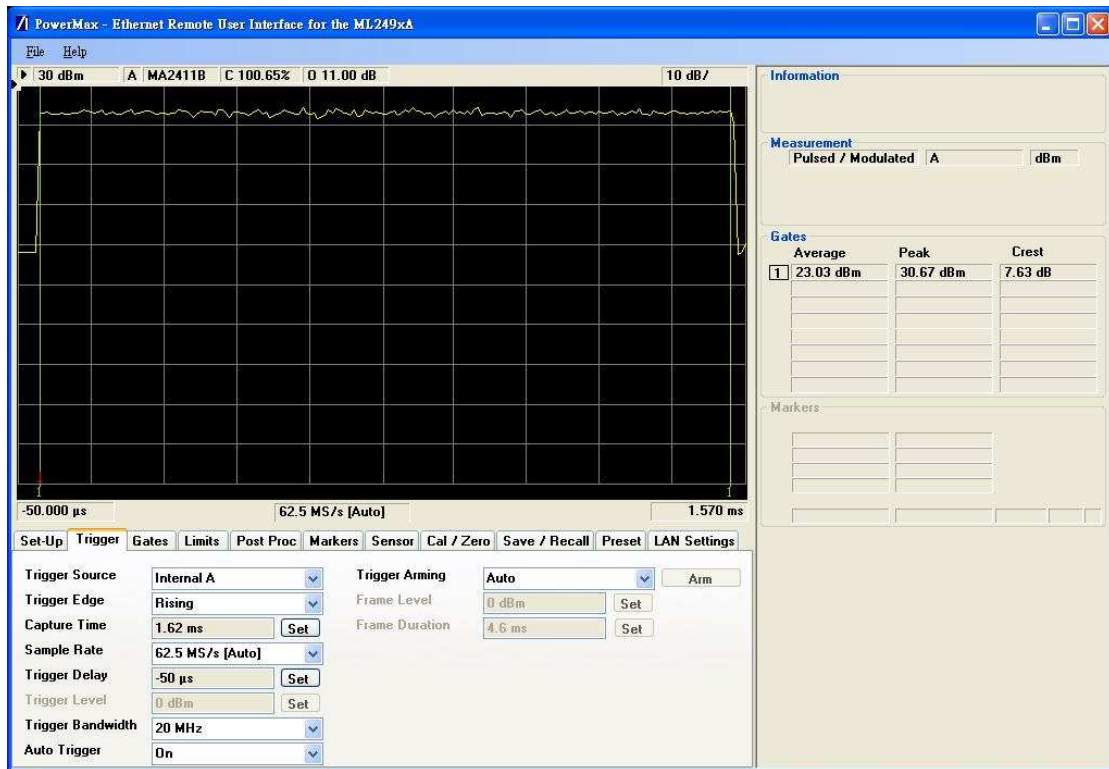
Bandwidth 10MHz / Modulation : QPSK 1/2

2600MHz



Bandwidth 10MHz / Modulation : 16QAM 1/2

2600MHz



APPENDIX-F DUTY CYCLE OF TEST SIGNAL

Calculation method for Duty cycle

Burst length = Mark 4 – Mark 1

First 3 symbols UL time = Mark 2 – Mark 1

15 symbols UL time = Mark 3 – Mark 2

Duty cycle = 15 symbols UL time / frame length *100 %

EX Calculate the duty cycle of 5MHz QPSK 1/2

Duty cycle = $(4.85\text{ms} - 3.283\text{ms}) / (7.917\text{ms} - 2.917\text{ms}) * 100\%$

= $1.567 / 5 * 100\%$

= 31.34 %

Channel : 2600MHz	BANDWIDTH : 5MHz						
	Mark information on plots				Duty cycle		
	Mark 1 (ms)	Mark 2 (ms)	Mark 3 (ms)	Mark 4 (ms)	15 symbols UL time (ms)	Burst length (ms)	Duty cycle
16QAM 1/2	1.683	2.05	3.617	6.683	1.567	5	31.34%
QPSK 1/2	2.917	3.283	4.85	7.917	1.567	5	31.34%

Channel : 26005MHz	BANDWIDTH : 10MHz						
	Mark information on plots				Duty cycle		
	Mark 1 (ms)	Mark 2 (ms)	Mark 3 (ms)	Mark 4 (ms)	15 symbols UL time (ms)	Burst length (ms)	Duty cycle
16QAM 1/2	2.85	3.183	4.75	7.85	1.567	5	31.34%
QPSK 1/2	1.55	1.917	3.483	6.55	1.566	5	31.32%

Channel : 2600MHz BW : 5MHz 16QAM1/2

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R T

Marker

Ref 41 dBm

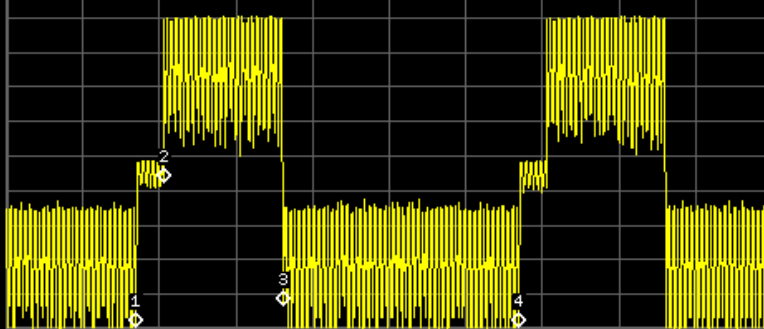
#Atten 40 dB

Mkr4 6.683 ms

-58.51 dBm

Select Marker
1 2 3 4

Norm
Log
10
dB/
Offst
11
dB



Normal

Delta

Delta Pair

(Tracking Ref)

Ref ▲

Span Pair

Span Center

Off

More

1 of 2

Center 2.600 000 GHz

Span 0 Hz

Res BW 8 MHz

VBW 8 MHz

Sweep 10 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Time	1.683 ms	-58.51 dBm
2	(1)	Time	2.05 ms	-16.89 dBm
3	(1)	Time	3.617 ms	-52.48 dBm
4	(1)	Time	6.683 ms	-58.51 dBm

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Channel : 2600MHz BW : 5MHz QPSK1/2

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R T

Marker

Ref 41 dBm

#Atten 40 dB

Mkr3 4.85 ms

-55.47 dBm

Norm

Log

10

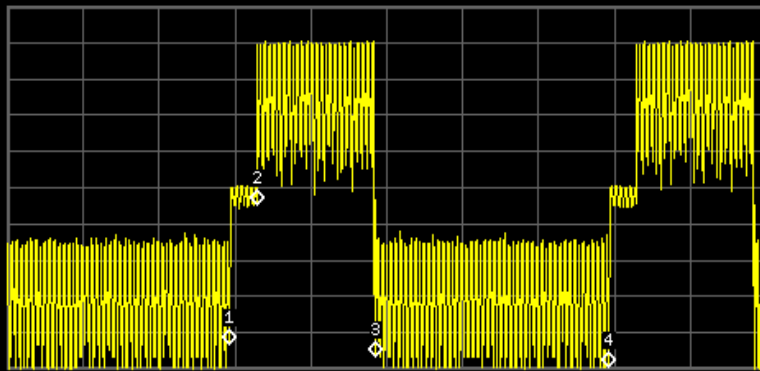
dB/

Offst

11

dB

LgAv



Center 2.600 000 GHz

Span 0 Hz

Res BW 8 MHz

VBW 8 MHz

Sweep 10 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Time	2.917 ms	-52.46 dBm
2	(1)	Time	3.283 ms	-13.58 dBm
3	(1)	Time	4.85 ms	-55.47 dBm
4	(1)	Time	7.917 ms	-58.49 dBm

Select Marker
1 2 3 4

Normal

Delta

Delta Pair

(Tracking Ref)

Ref

Span Pair

Span Center

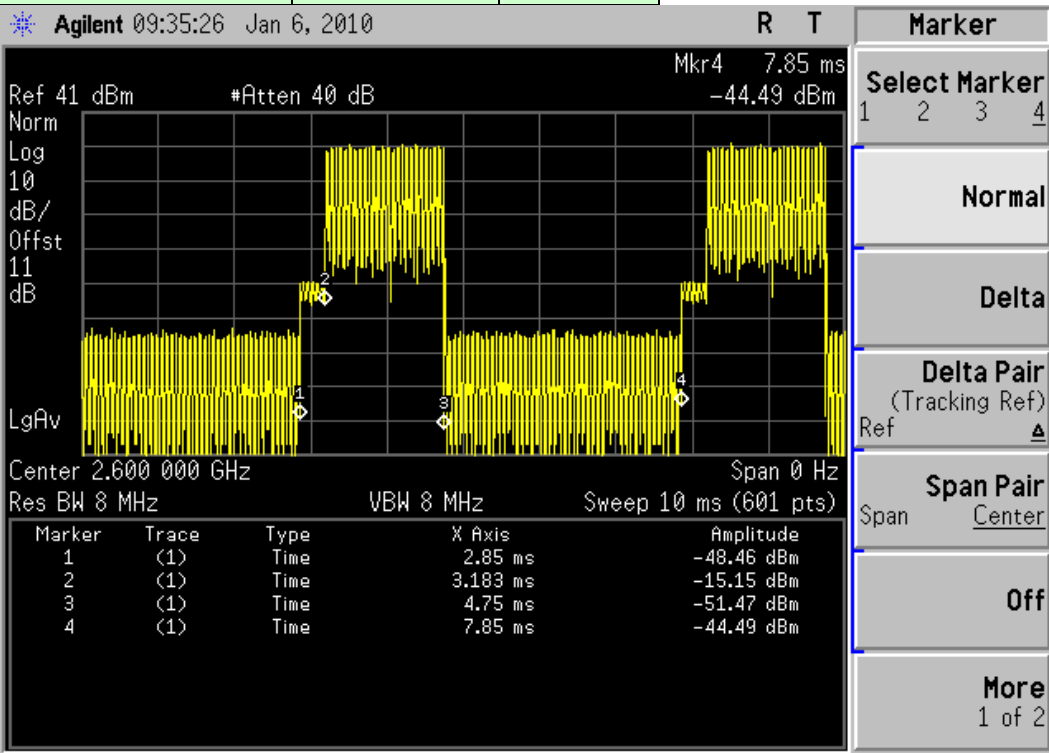
Off

More

1 of 2

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Channel : 2600MHz BW : 10MHz 16QAM1/2



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Channel : 2600MHz BW : 10MHz QPSK1/2

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R T

Marker

Ref 41 dBm

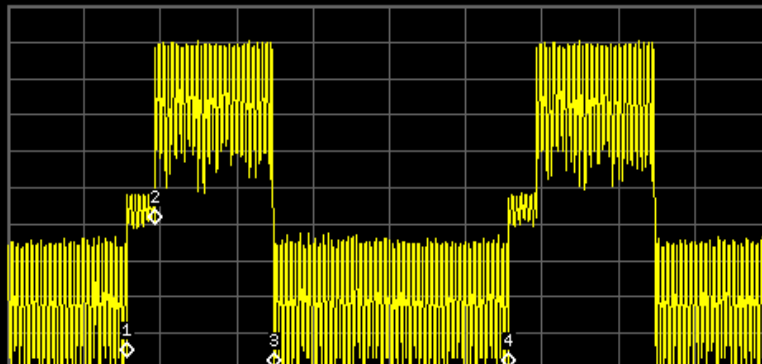
#Atten 40 dB

Mkr3 3.483 ms

-58.45 dBm

Norm
Log
10
dB/
Offst
11
dB

LgAv



Center 2.600 000 GHz

Span 0 Hz

Res BW 8 MHz

VBW 8 MHz

Sweep 10 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(1)	Time	1.55 ms	-55.44 dBm
2	(1)	Time	1.917 ms	-19.25 dBm
3	(1)	Time	3.483 ms	-58.45 dBm
4	(1)	Time	6.55 ms	-58.45 dBm

Select Marker
1 2 3 4

Normal

Delta

Delta Pair

(Tracking Ref)

Ref

Span Pair

Span

Center

Off

More

1 of 2

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