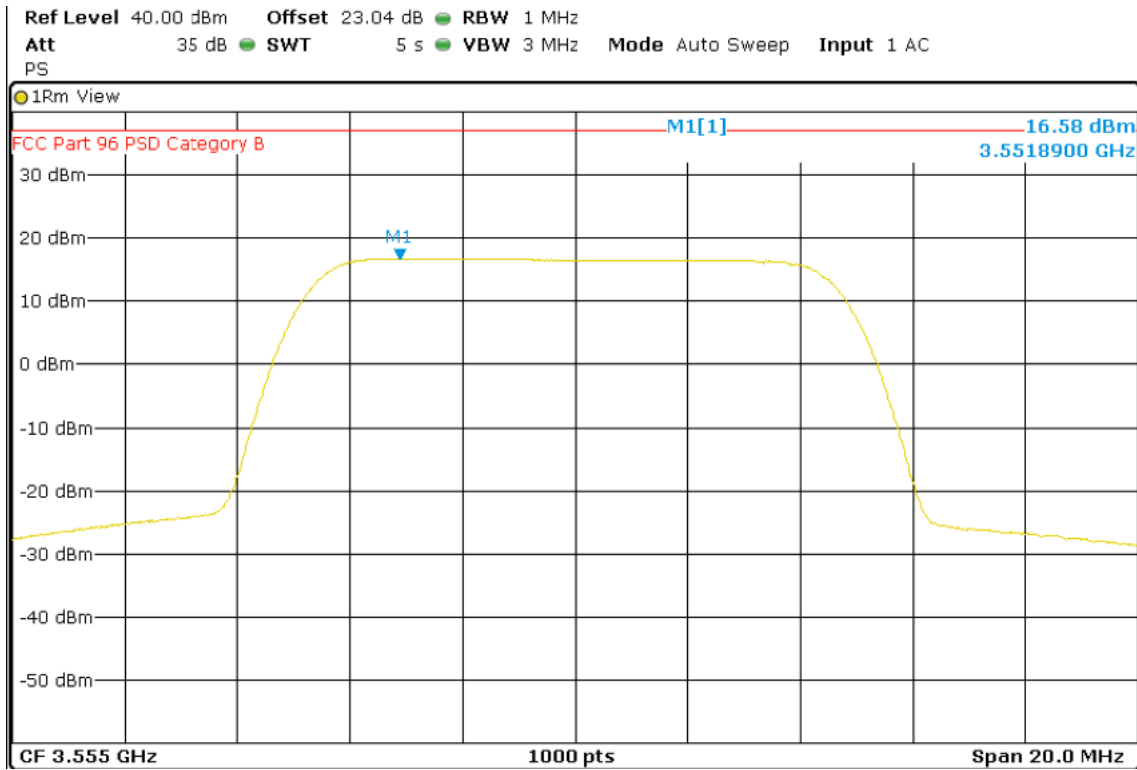
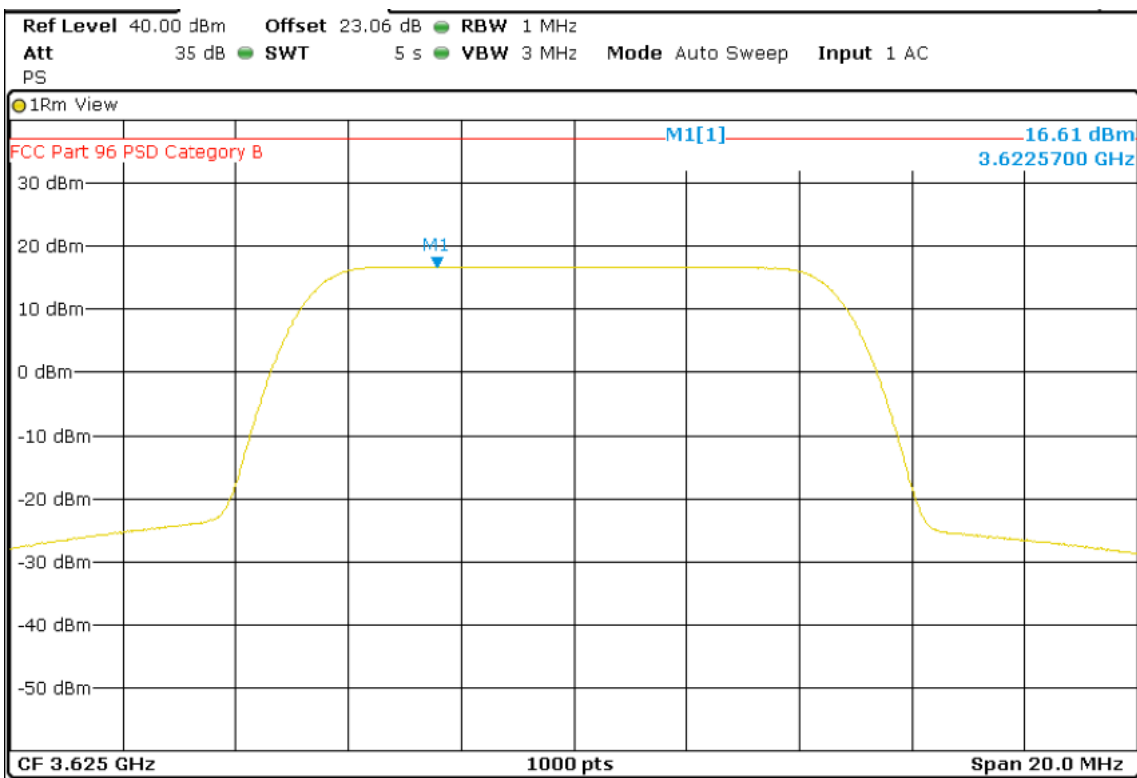


Port 3

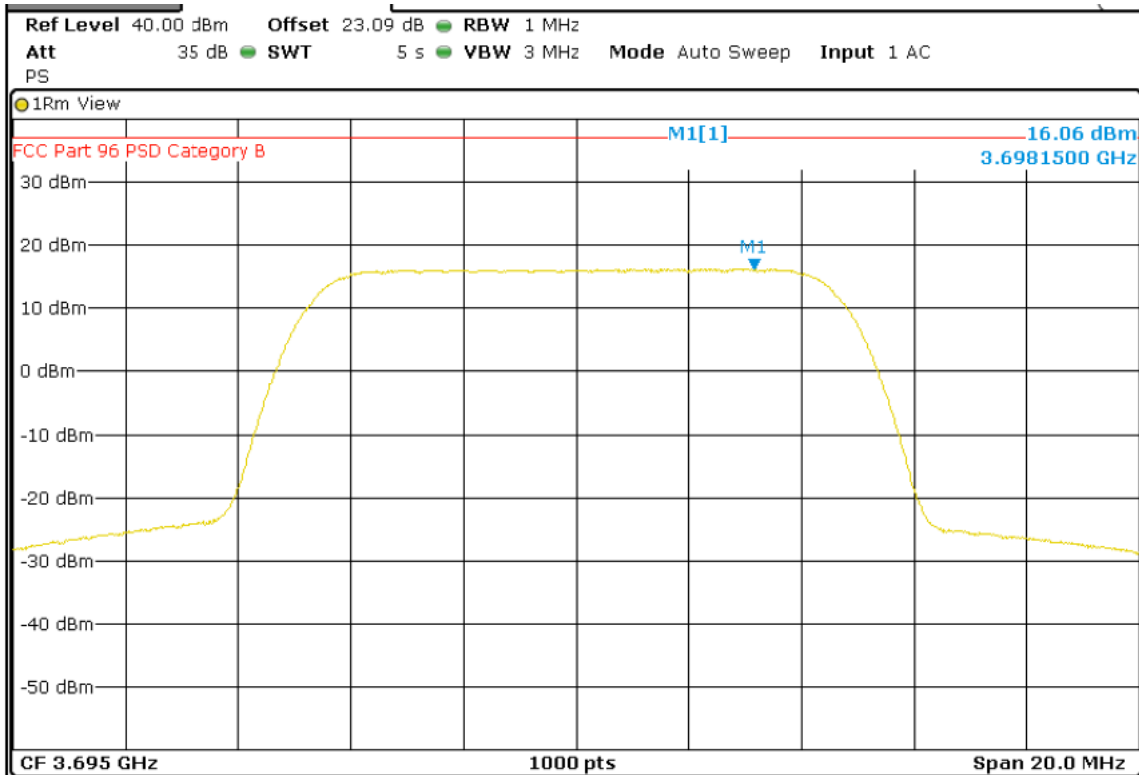
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

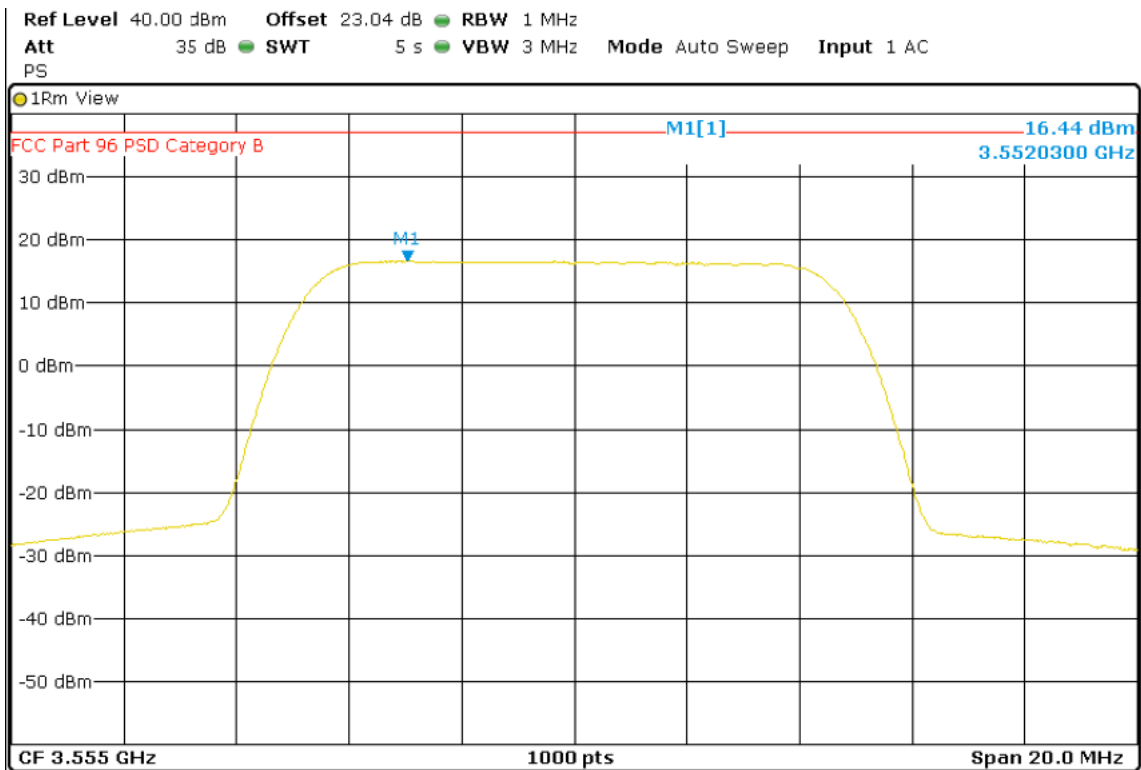


Highest Channel (3695 MHz)

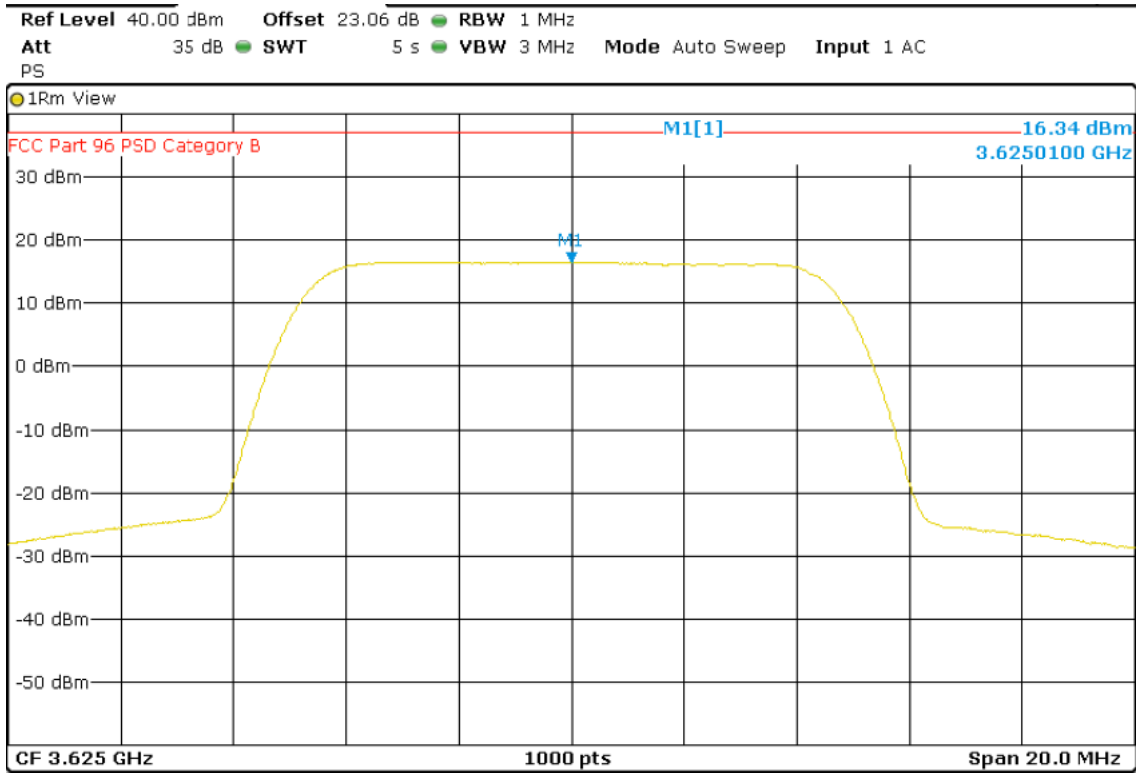


Port 4

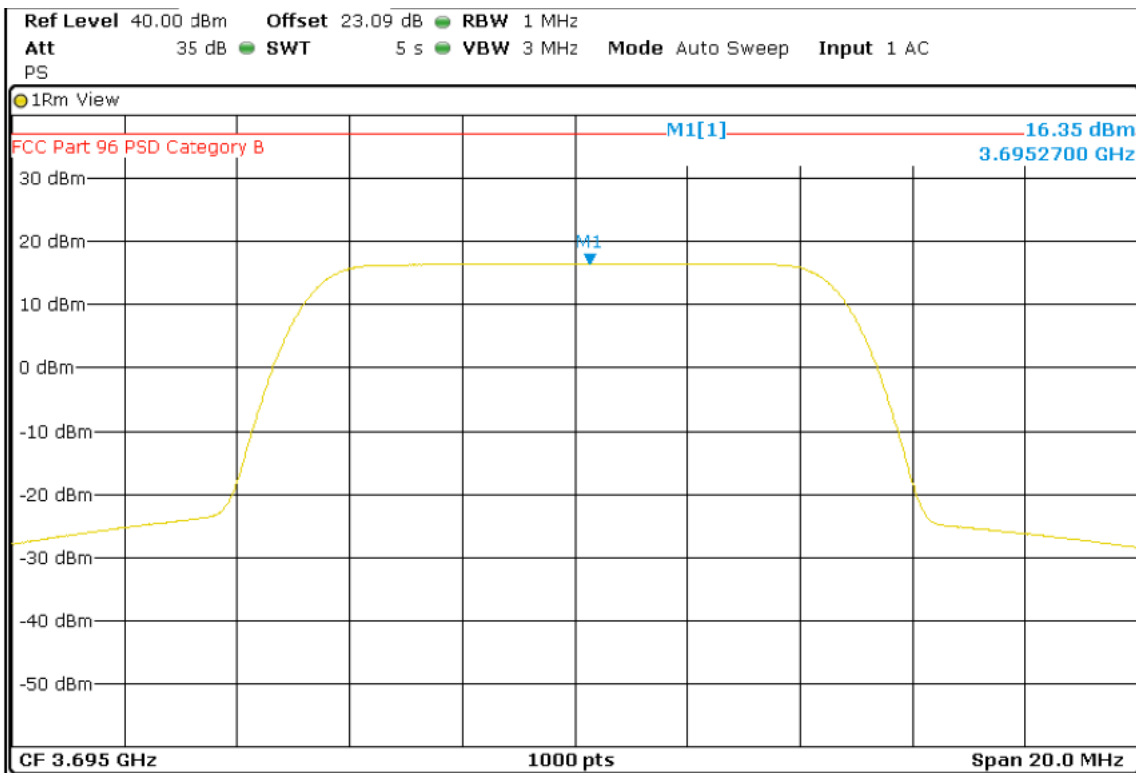
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)



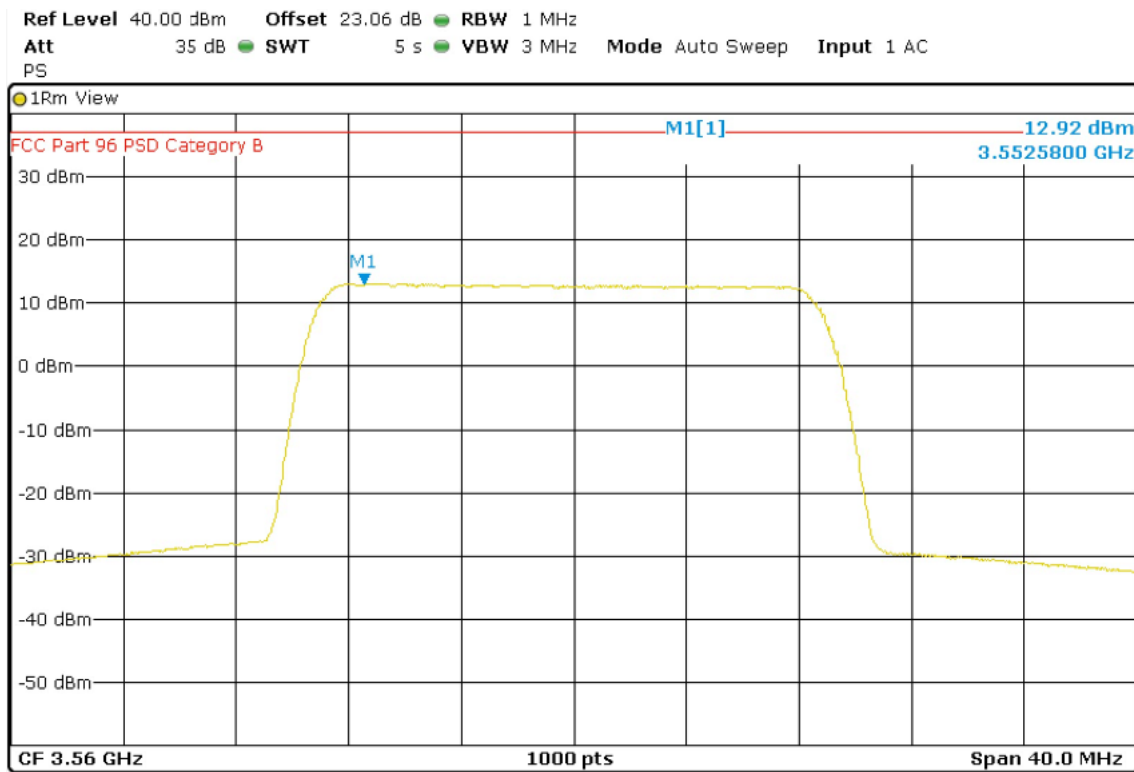
Highest Channel (3695 MHz)



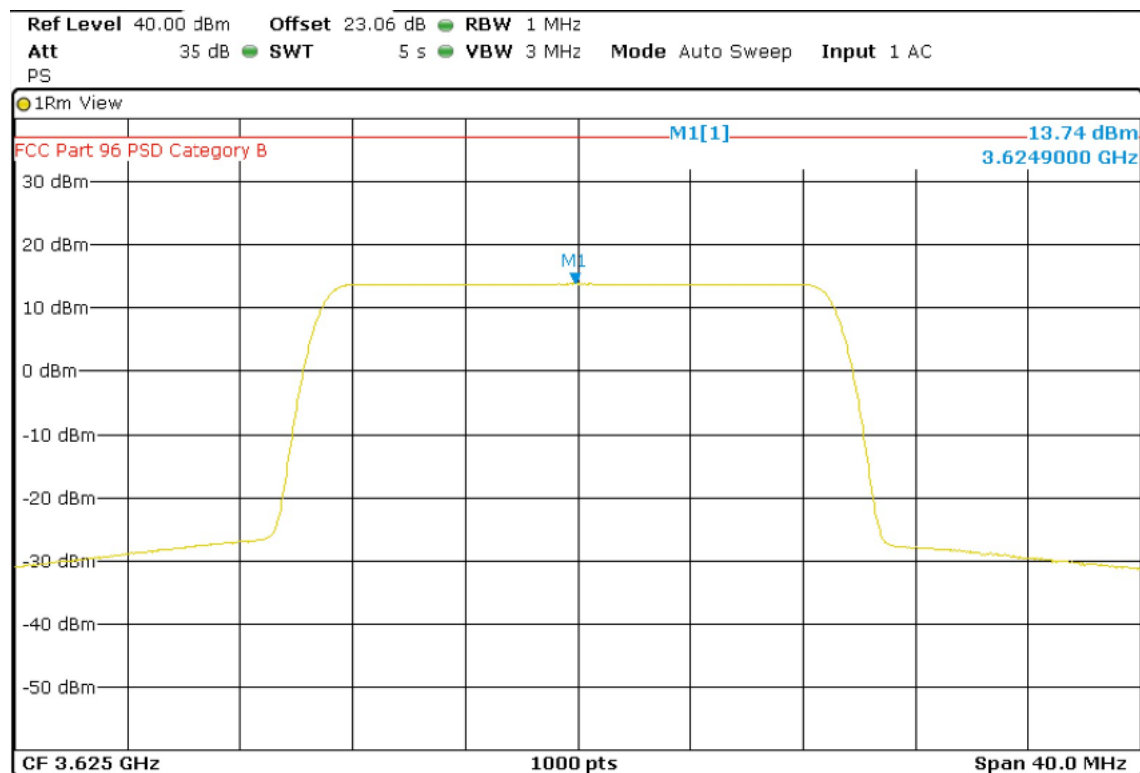
20MHz BW

Port 1

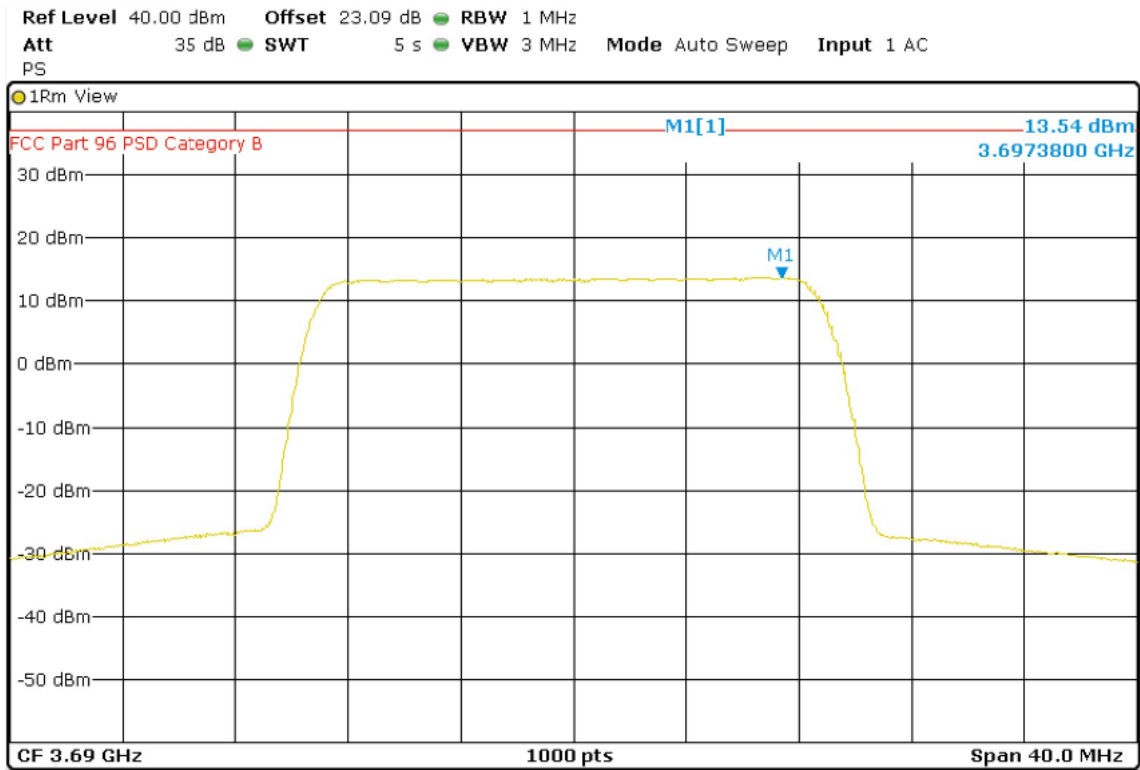
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

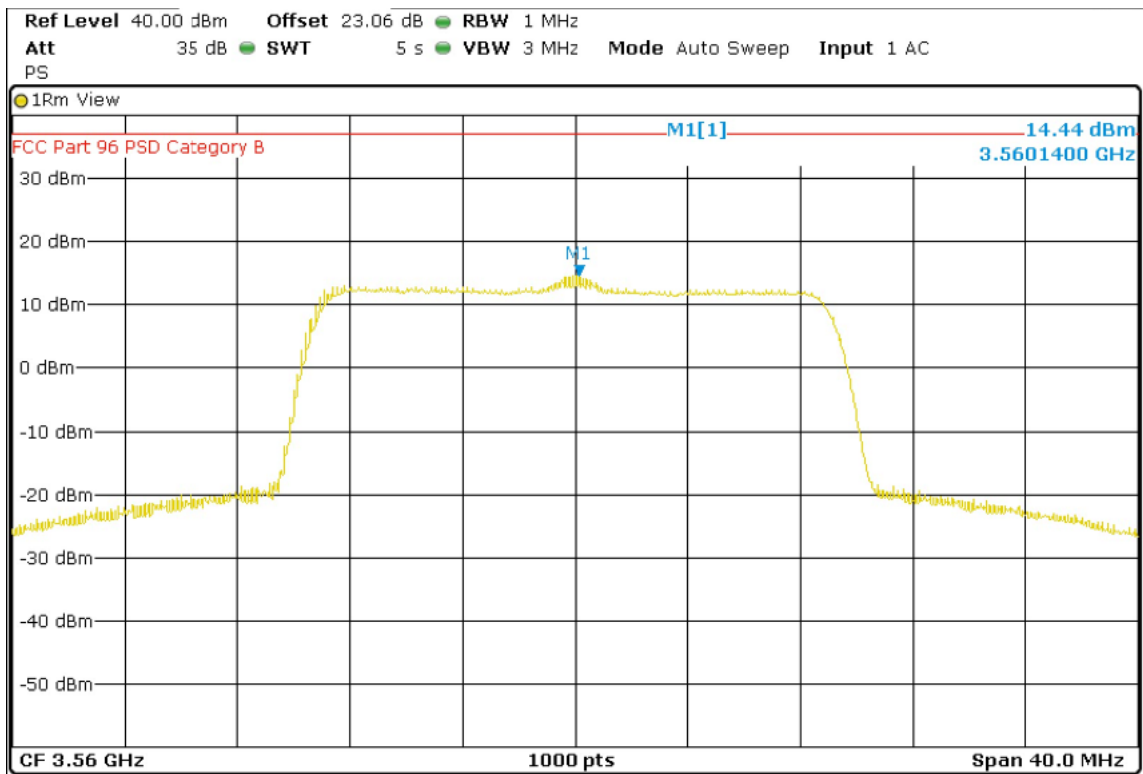


Highest Channel (3690 MHz)

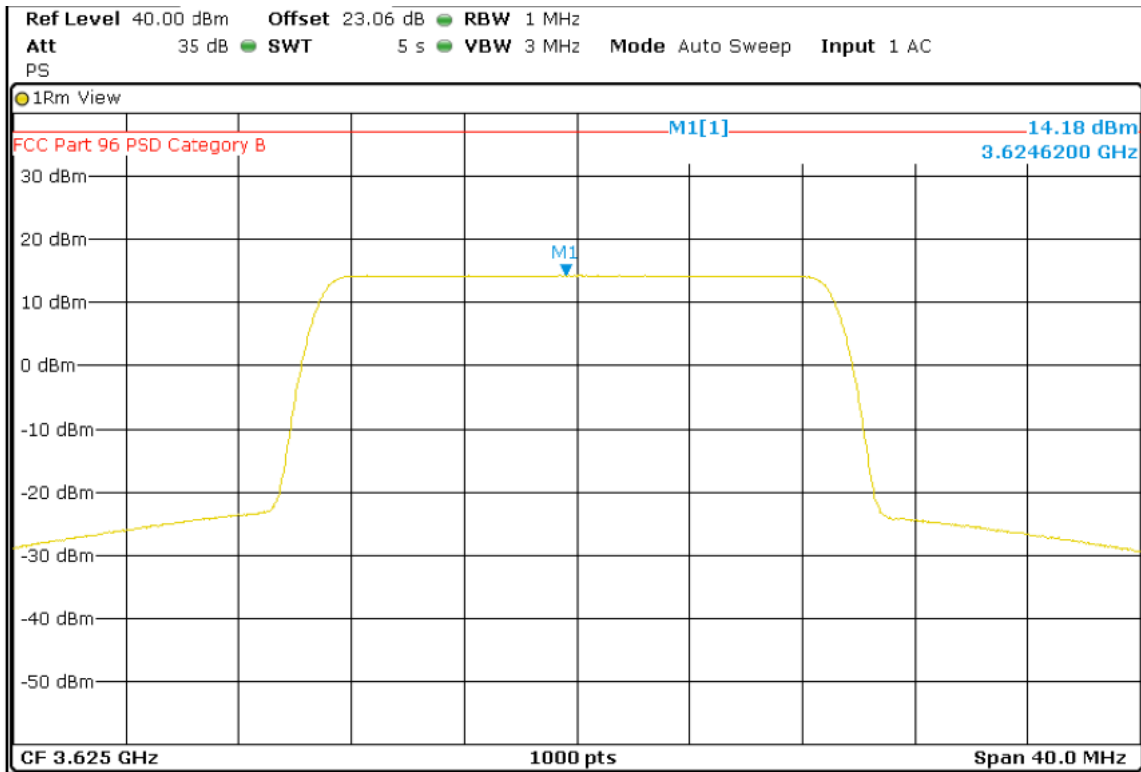


Port 2

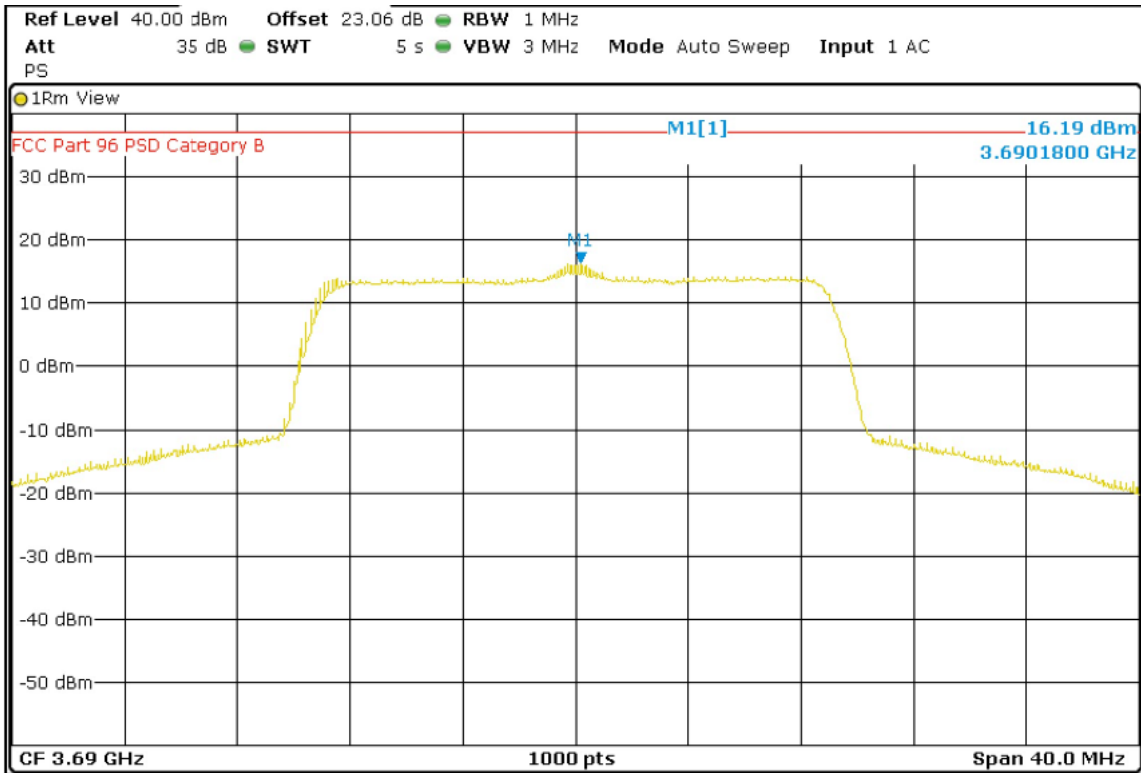
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

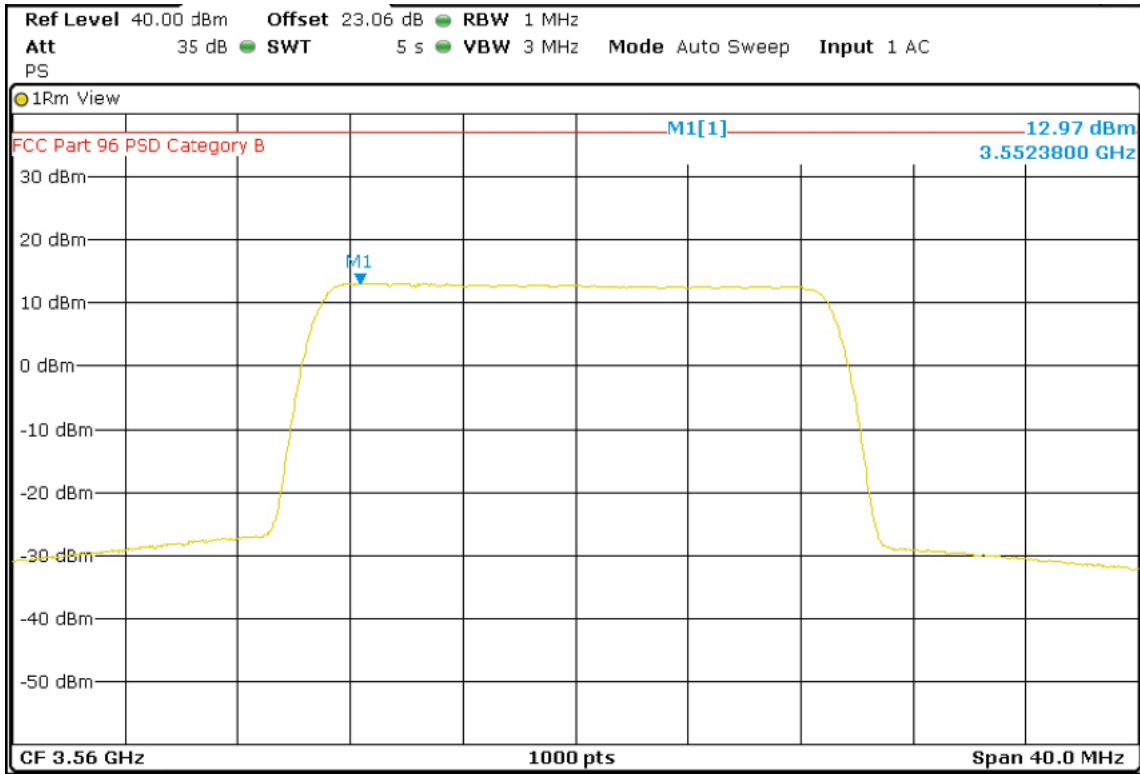


Highest Channel (3690 MHz)

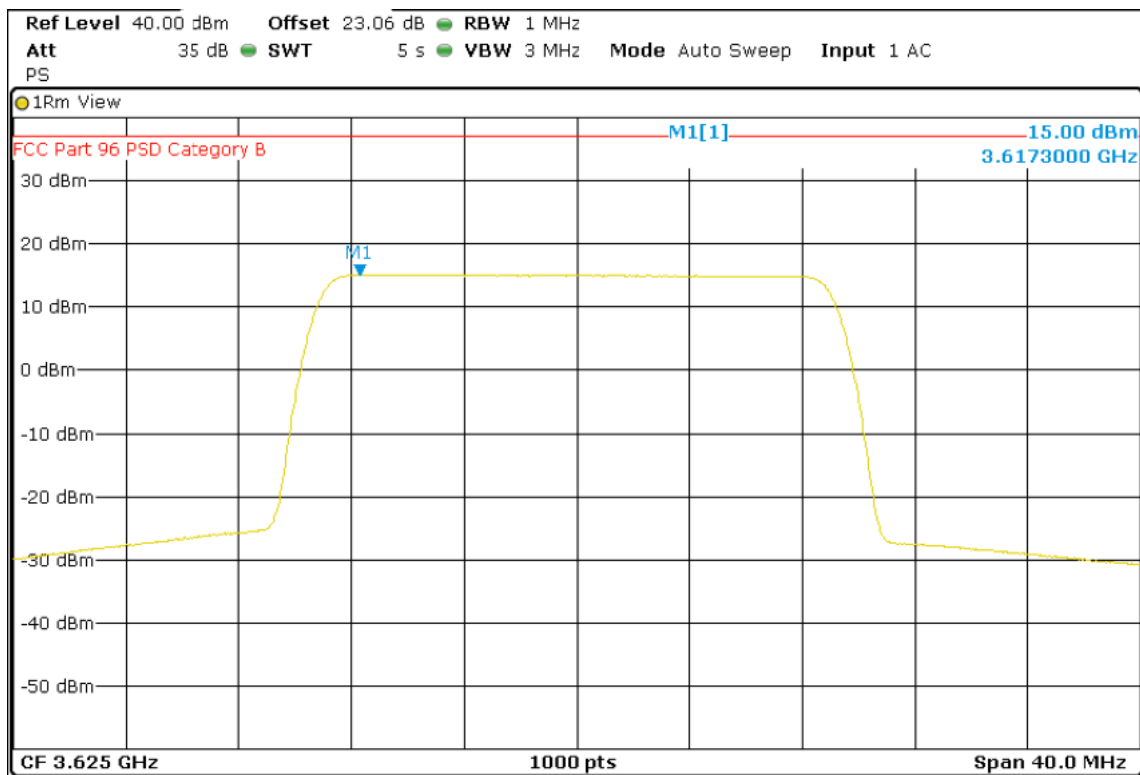


Port 3

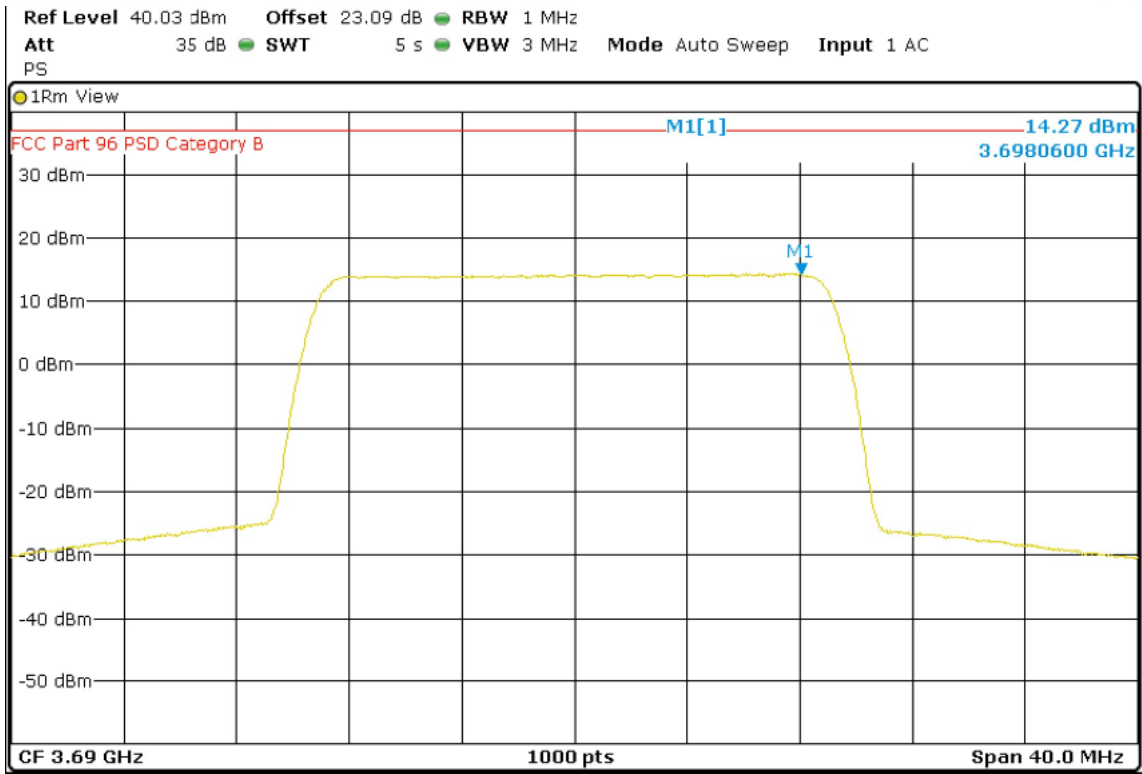
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

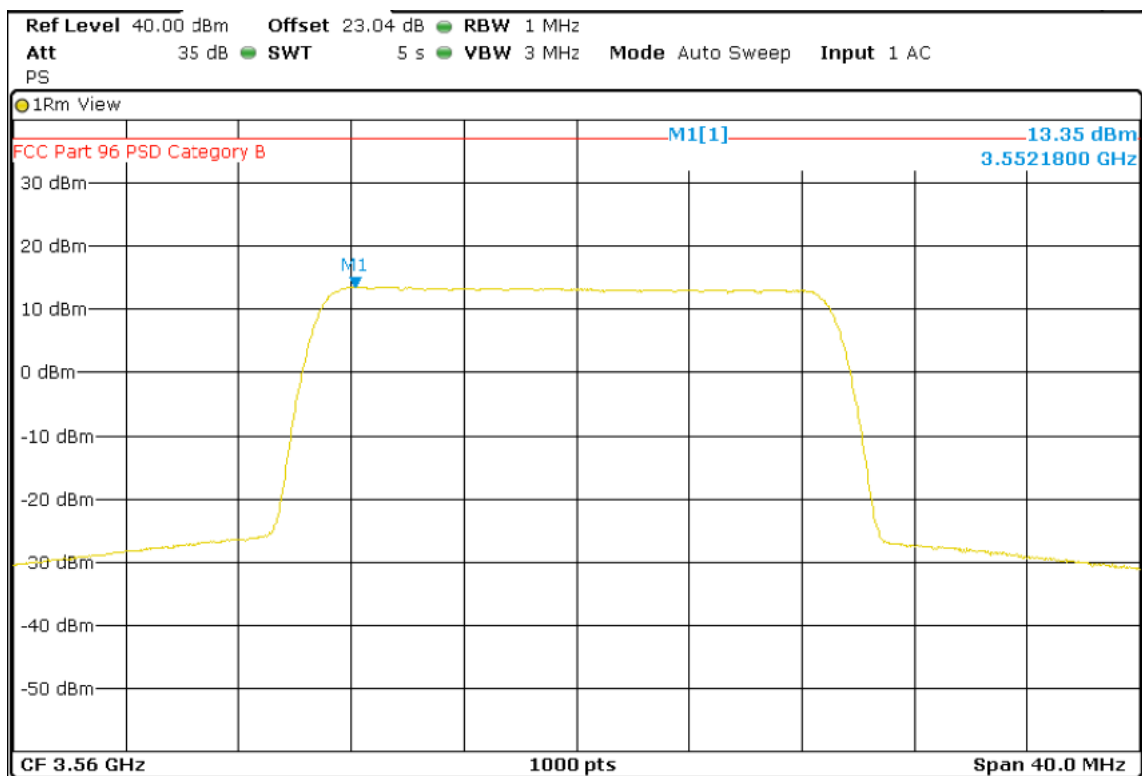


Highest Channel (3690 MHz)

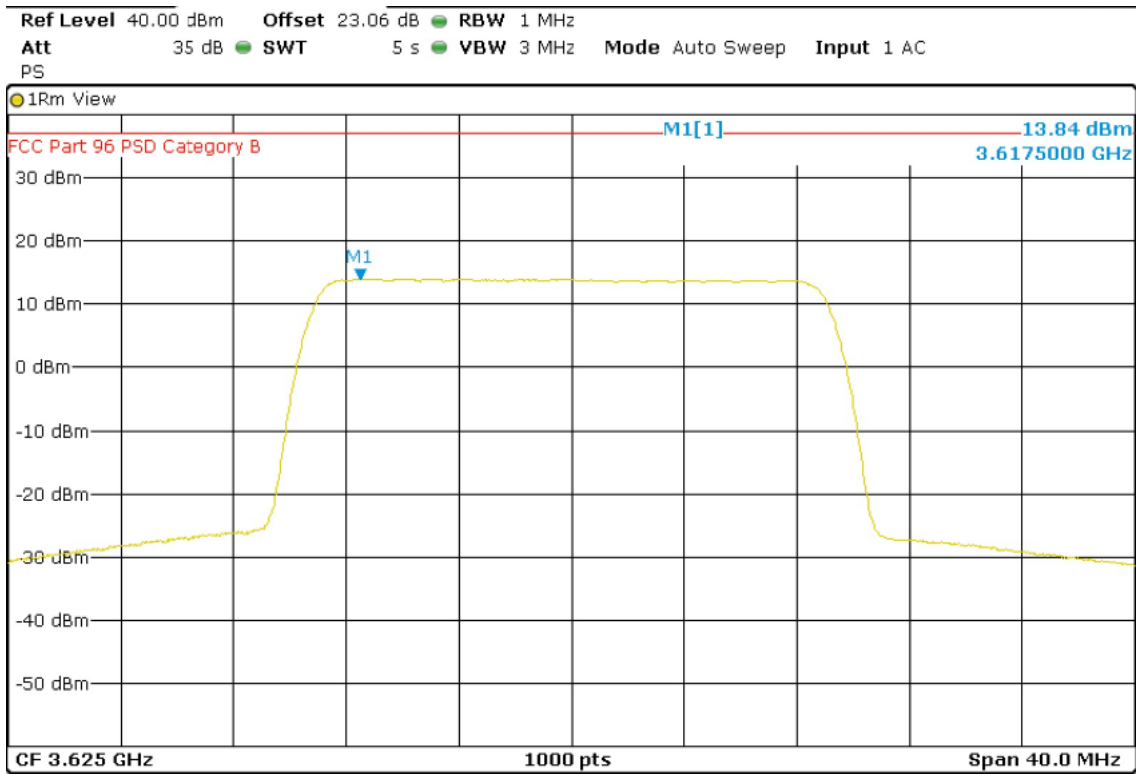


Port 4

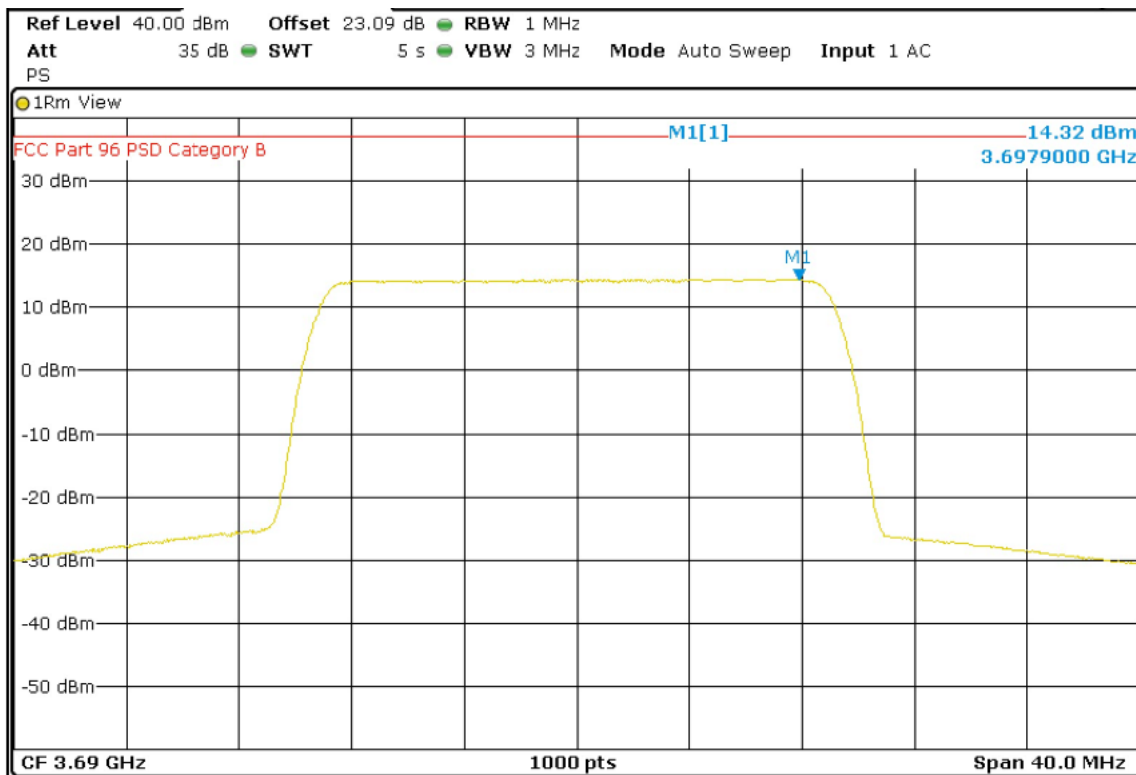
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)



Highest Channel (3690 MHz)



Section 96.41 Subclause (g). Peak-to-Average Power Ratio (PAPR)

In addition to the power limits in Section 96.41, CBSDs need to meet a PAPR limit. For this measurement, the procedure in Section 5.2.6 of ANSI C63.26-2015 is acceptable. CCDF (Complementary Cumulative Distribution Function) measurement was utilized in the spectrum analyzer and the maximum PAPR level with 0.1 % probability values were recorded.

The peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 db.

RESULTS

2X2 MIMO mode

10MHz BW

Port 1

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Peak (dBm)	27.13	28.79	29.73
Mean (dBm)	15.50	16.05	15.96
PAPR at 0.1% probability (dB)	10.03	10.32	10.49
Measurement uncertainty (dB)	<±1.11		

Port 2

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Peak (dBm)	27.95	34.10	33.72
Mean (dBm)	15.21	21.14	21.22
PAPR at 0.1% probability (dB)	10.32	10.70	10.41
Measurement uncertainty (dB)	<±1.11		

Port 3

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Peak (dBm)	34.41	33.52	33.96
Mean (dBm)	21.93	21.99	22.21
PAPR at 0.1% probability (dB)	10.35	10.29	10.26
Measurement uncertainty (dB)	<±1.11		

Port 4

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Peak (dBm)	27.36	27.53	27.92
Mean (dBm)	15.30	15.33	15.36
PAPR at 0.1% probability (dB)	10.58	10.43	10.64
Measurement uncertainty (dB)	<±1.11		

20MHz BW

Port 1

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Peak (dBm)	22.74	24.55	24.98
Mean (dBm)	10.92	12.69	12.51
PAPR at 0.1% probability (dB)	10.55	10.09	10.43
Measurement uncertainty (dB)	<±1.11		

Port 2

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Peak (dBm)	24.19	25.80	23.97
Mean (dBm)	11.83	13.15	12.60
PAPR at 0.1% probability (dB)	10.43	10.38	10.14
Measurement uncertainty (dB)	<±1.11		

Port 3

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Peak (dBm)	24.01	25.59	31.78
Mean (dBm)	11.72	13.84	19.28
PAPR at 0.1% probability (dB)	10.32	10.14	10.12
Measurement uncertainty (dB)	<±1.11		

Port 4

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Peak (dBm)	23.97	24.40	25.27
Mean (dBm)	11.90	12.85	13.21
PAPR at 0.1% probability (dB)	10.29	10.49	10.09
Measurement uncertainty (dB)	<±1.11		

VERDICT: PASS

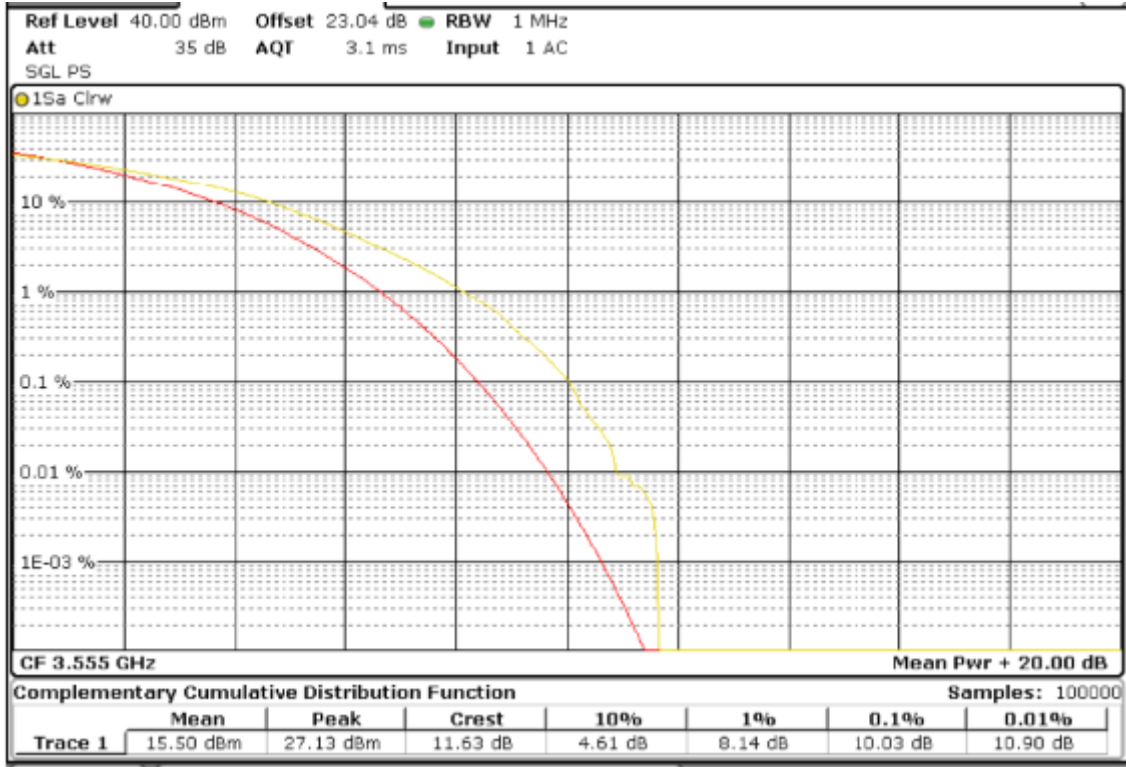
(See next plots)

2X2 MIMO mode

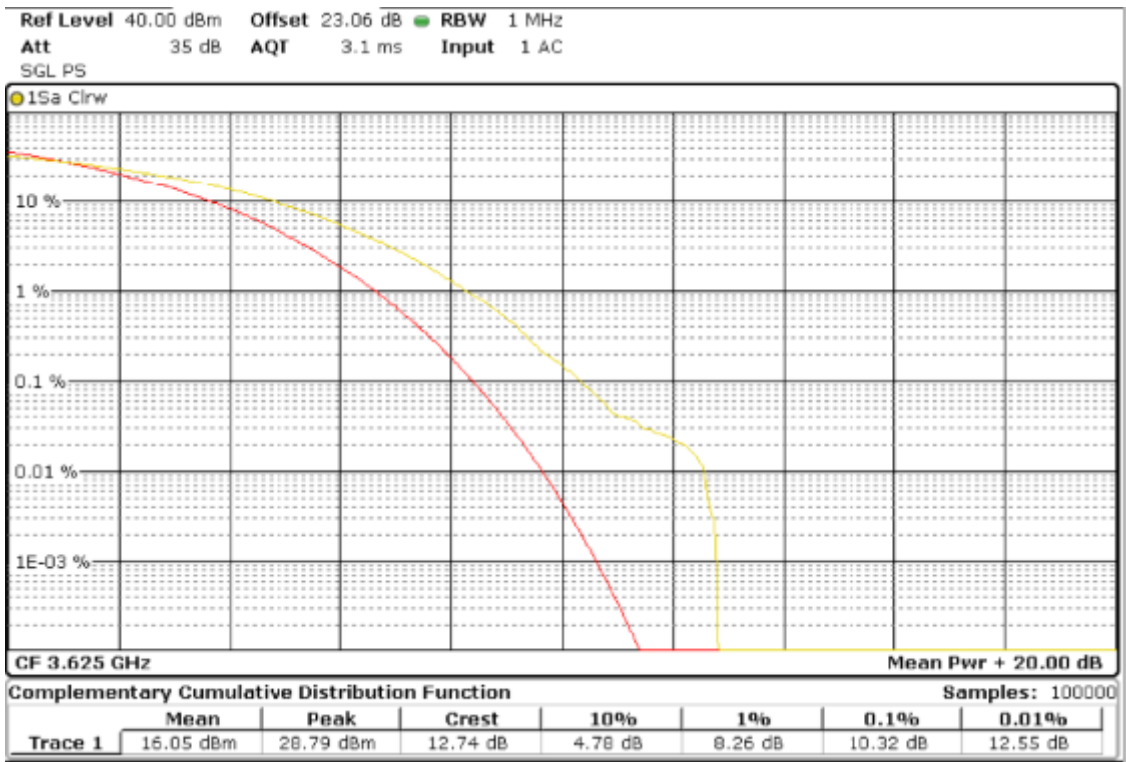
10MHz BW

Port 1

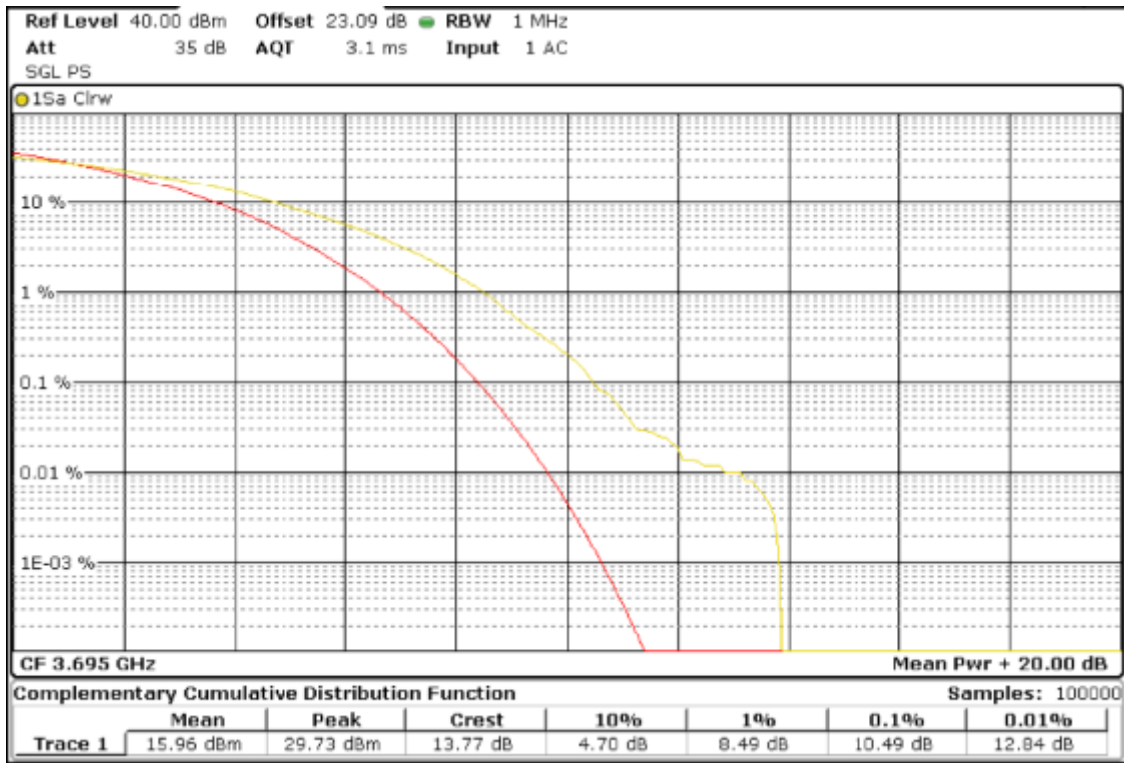
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

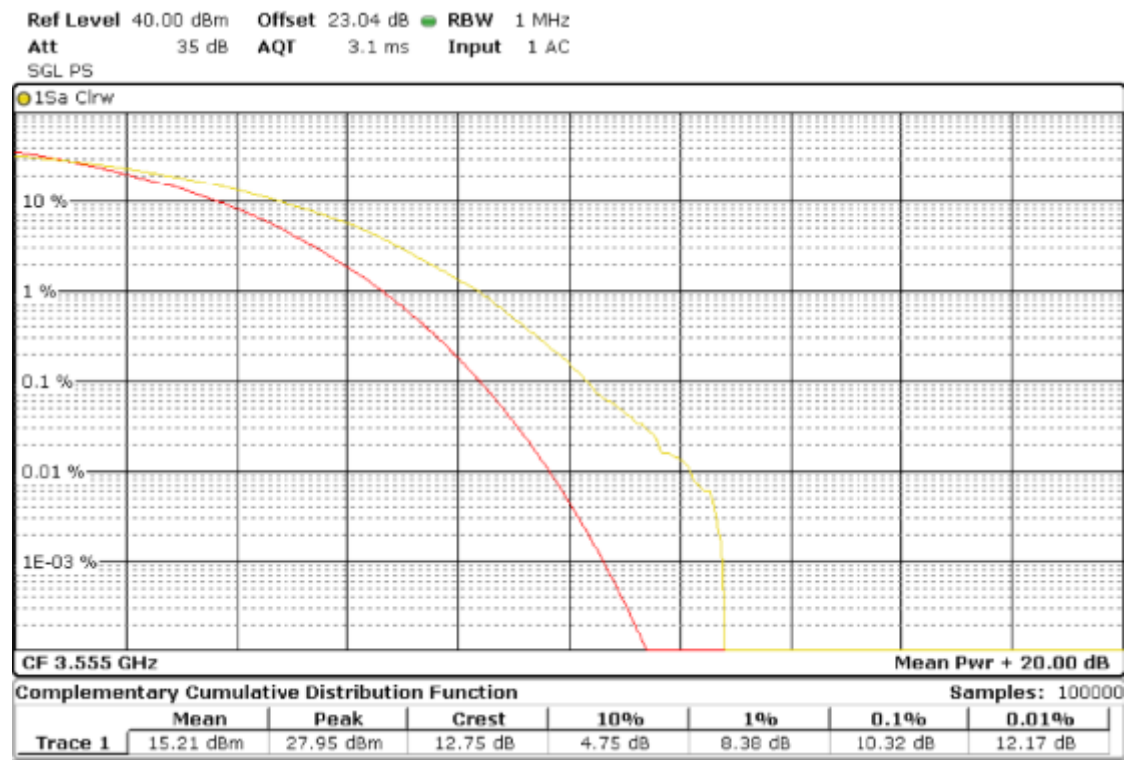


Highest Channel (3695 MHz)

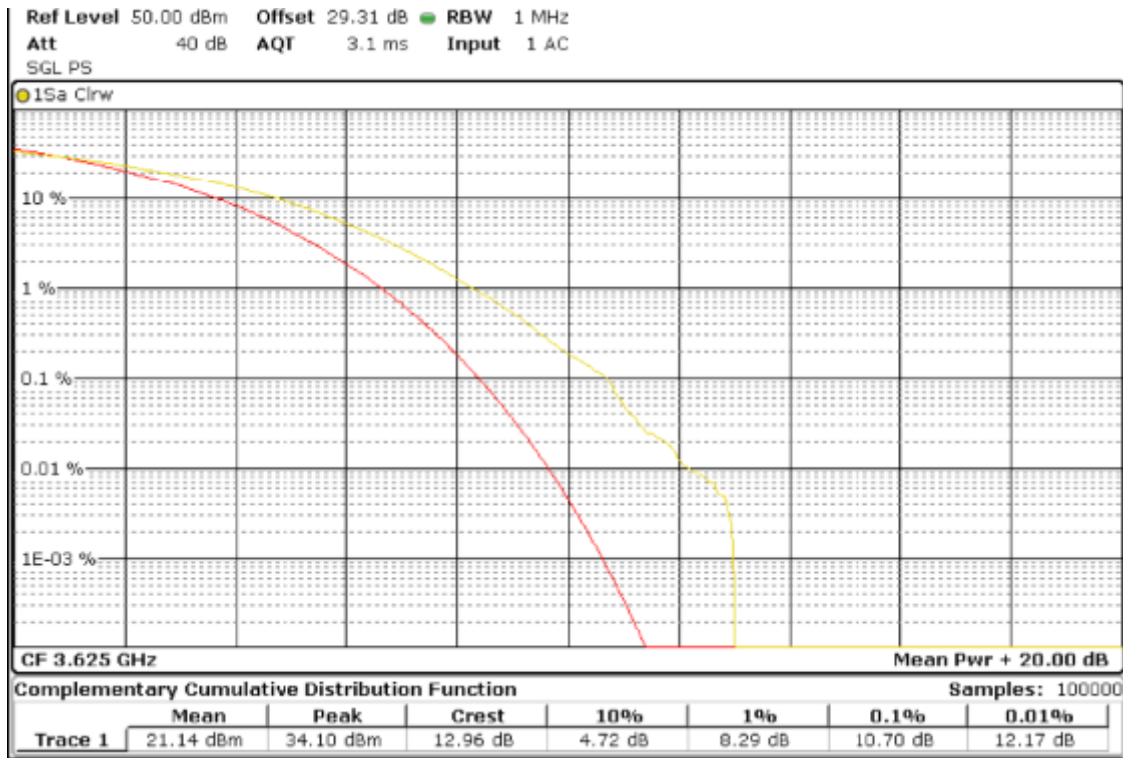


Port 2

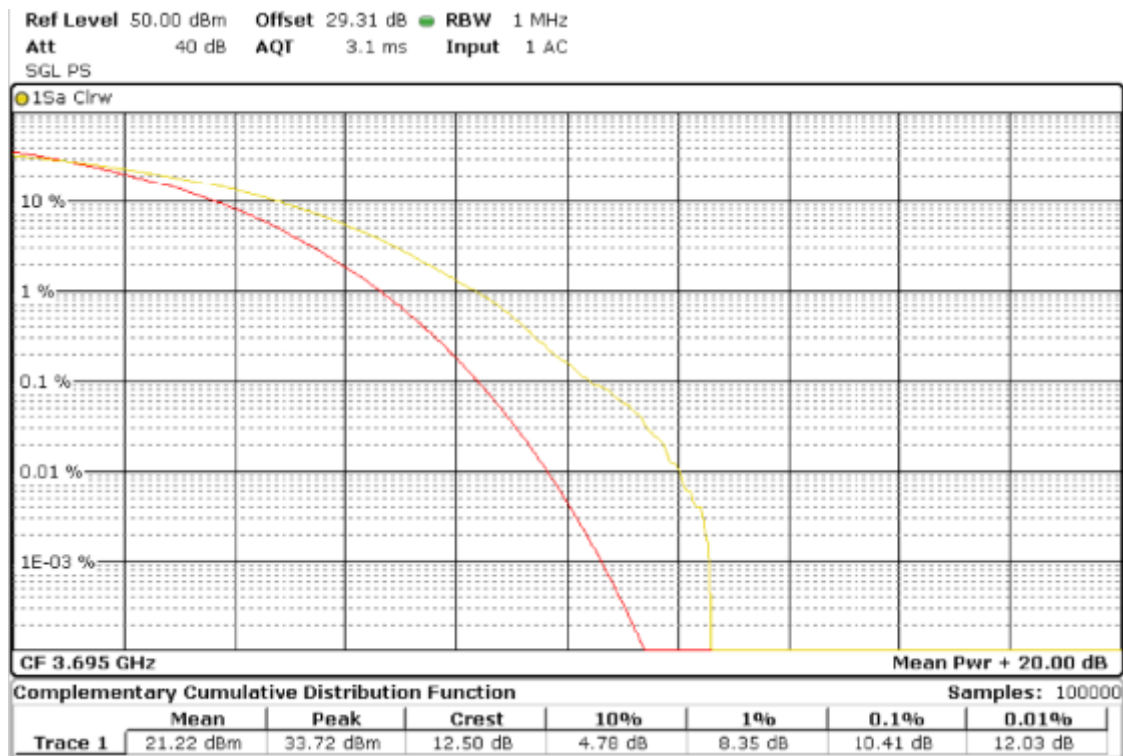
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

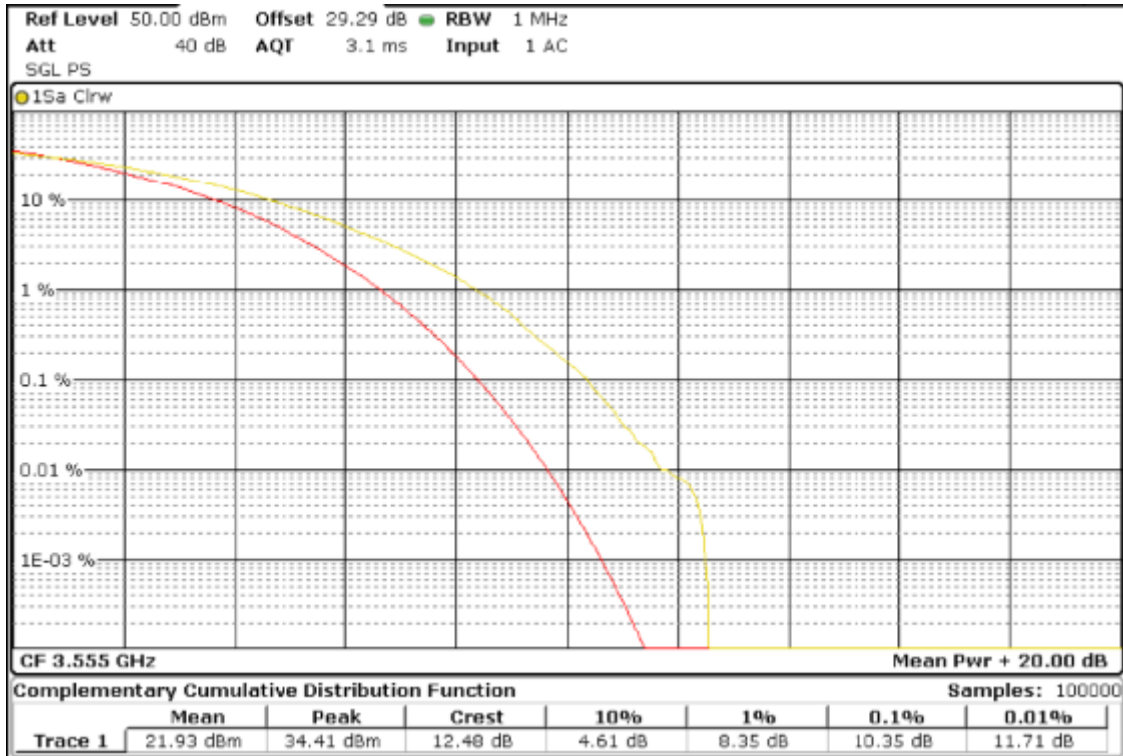


Highest Channel (3690 MHz)



Port 3

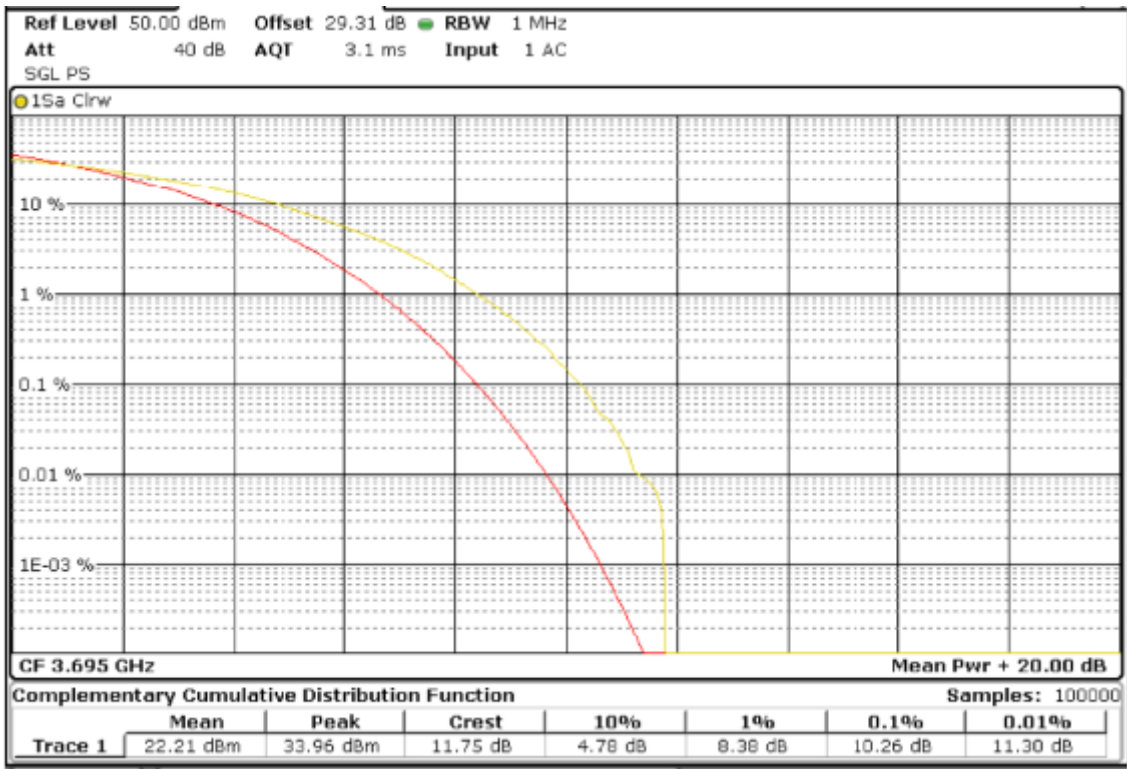
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

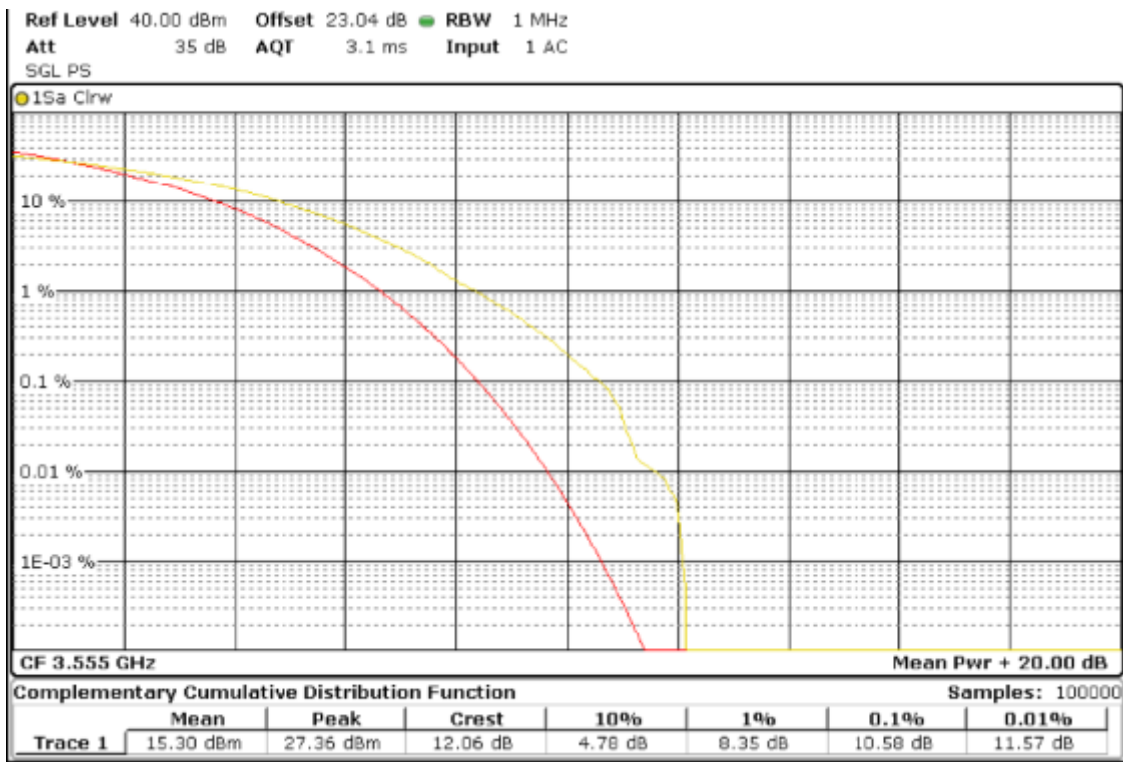


Highest Channel (3695 MHz)

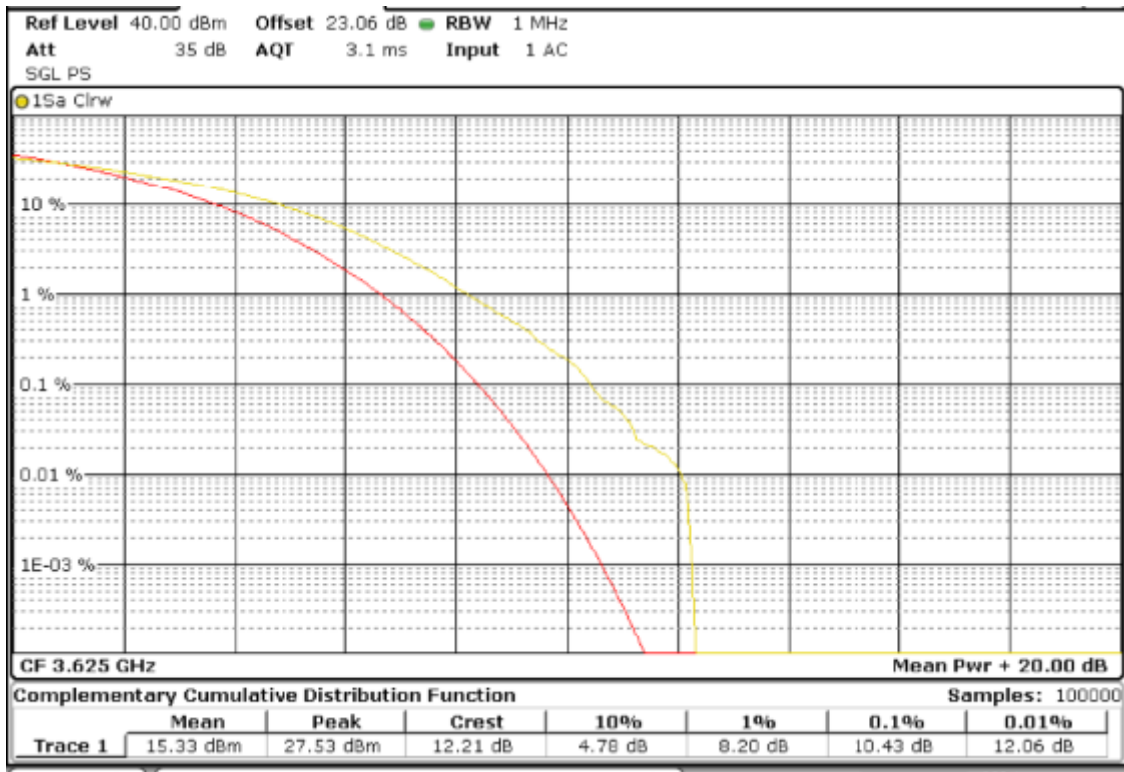


Port 4

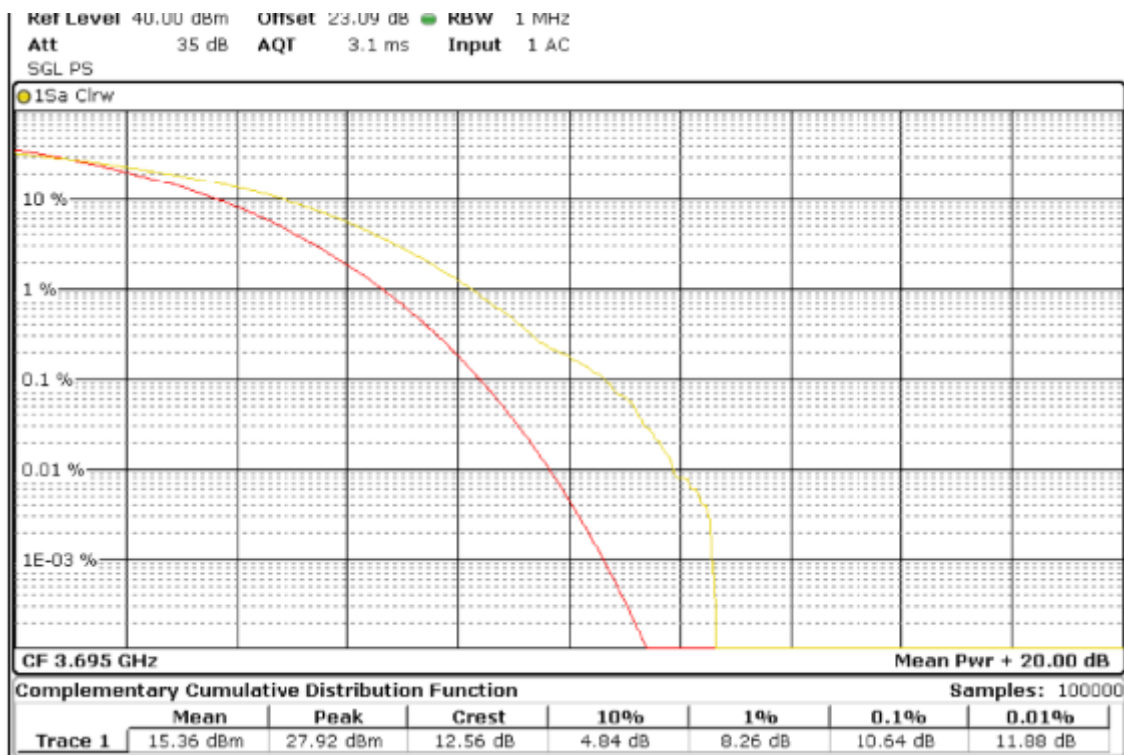
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)



Highest Channel (3690 MHz)



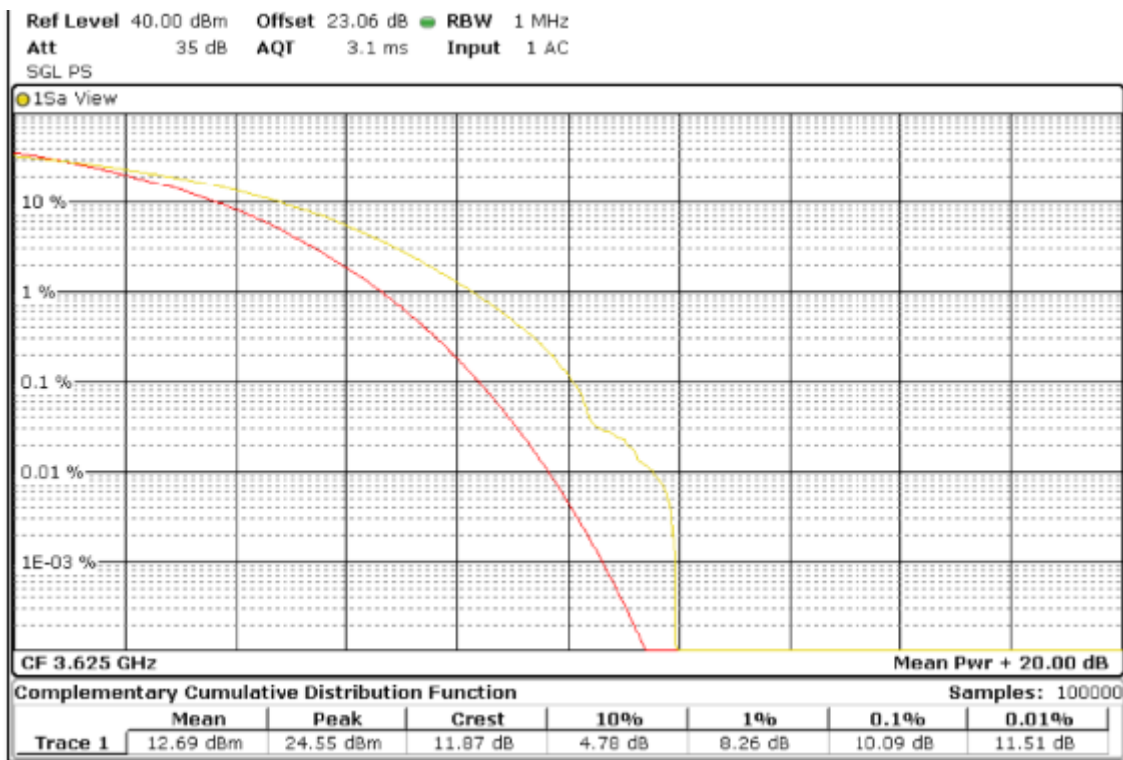
20MHz BW

Port 1

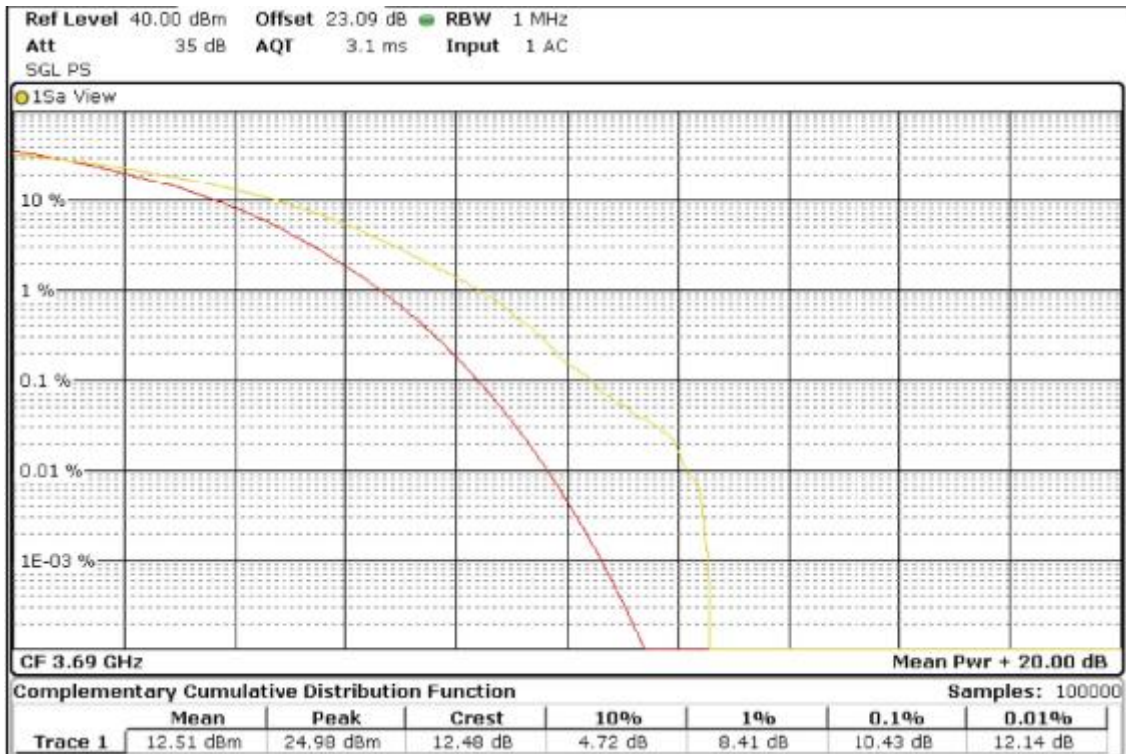
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

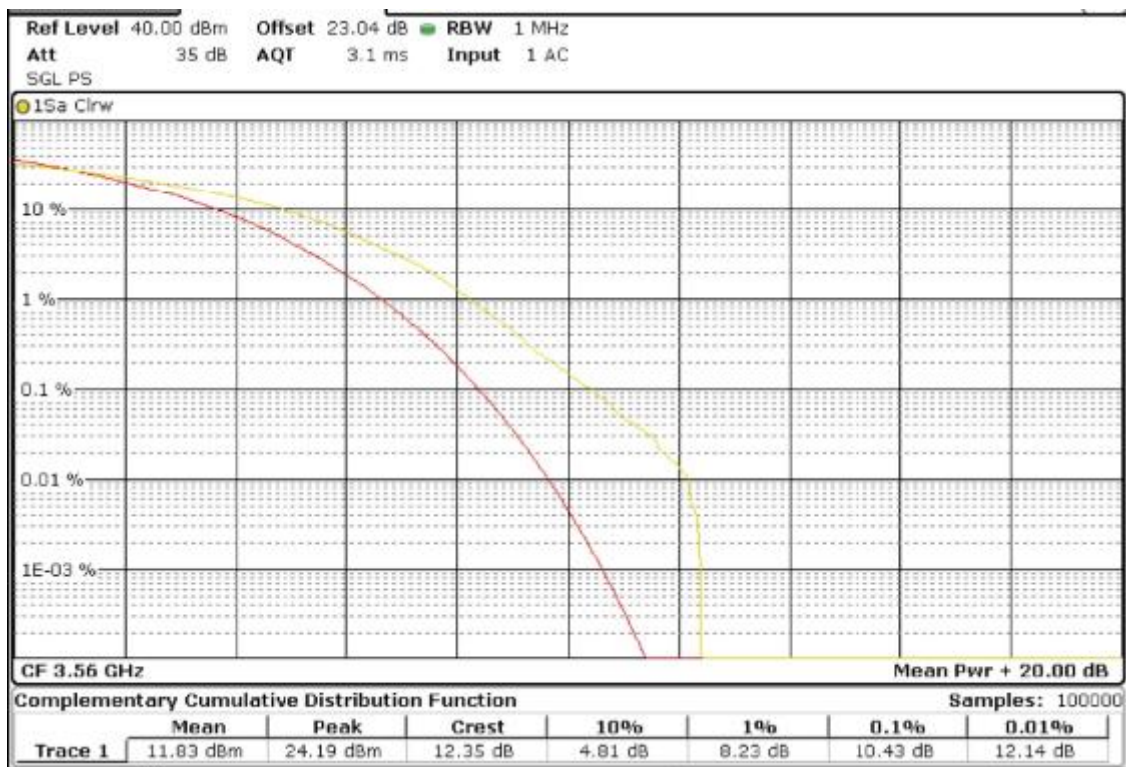


Highest Channel (3690 MHz)

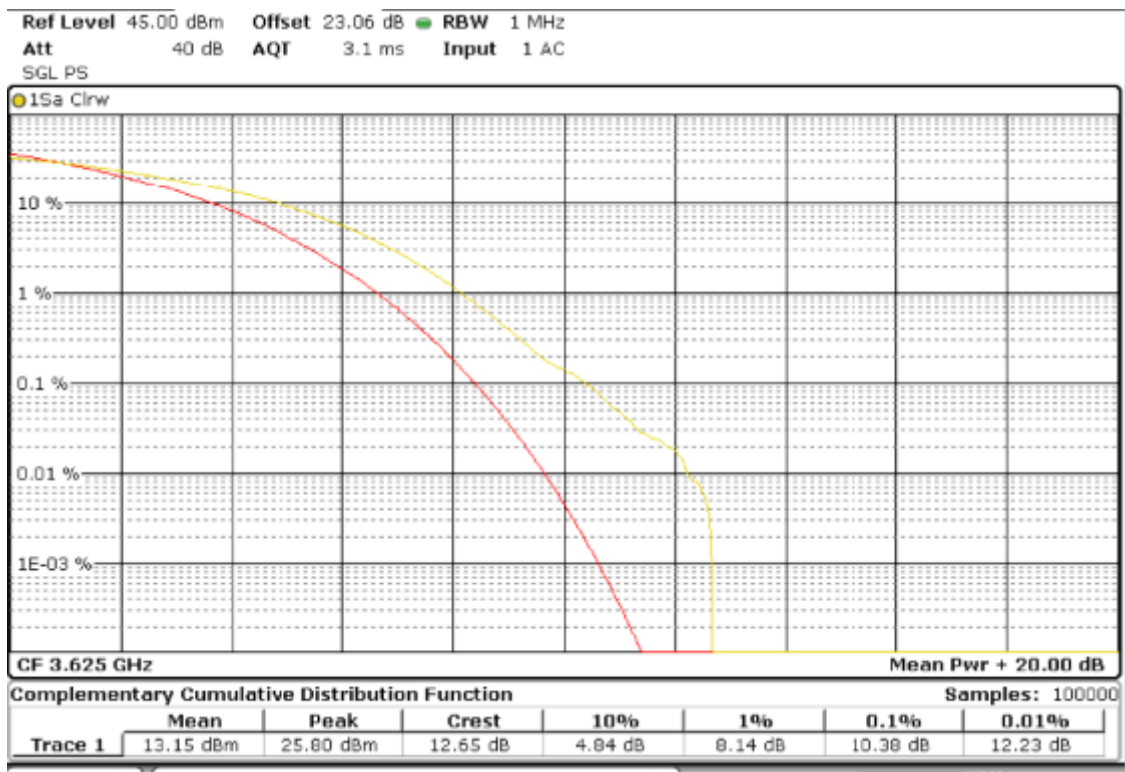


Port 2

Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)



Highest Channel (3690 MHz)

