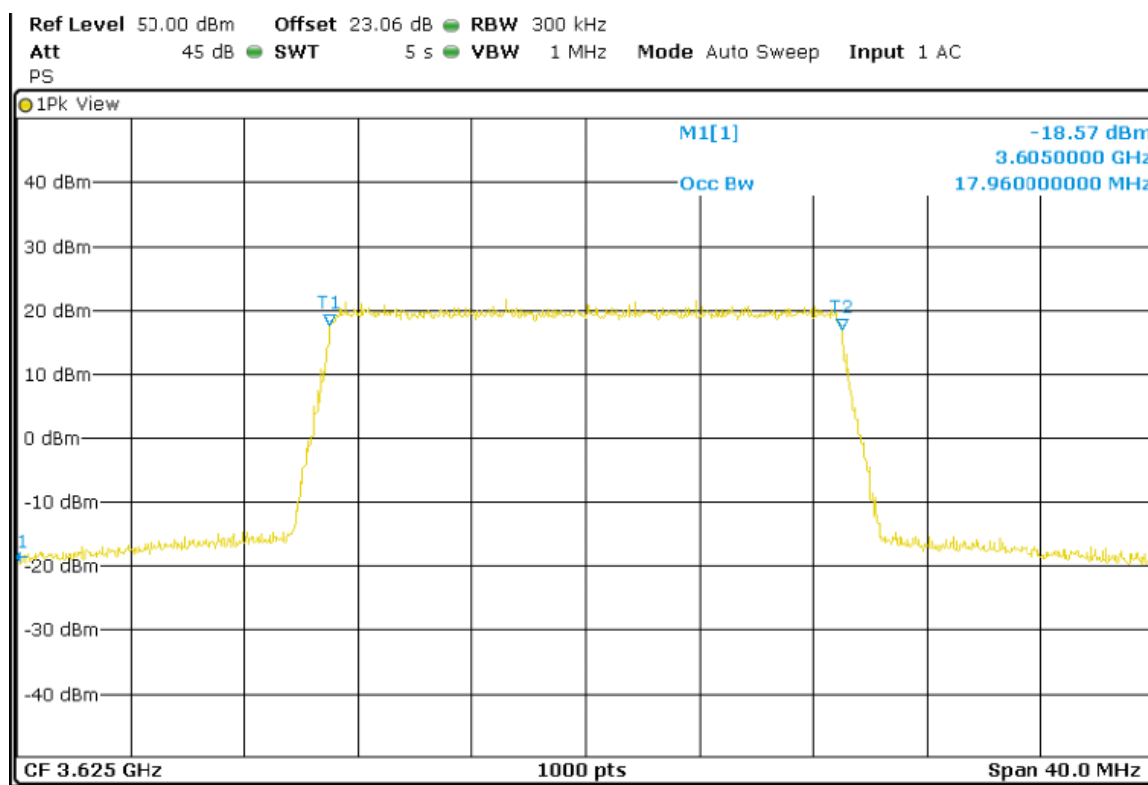
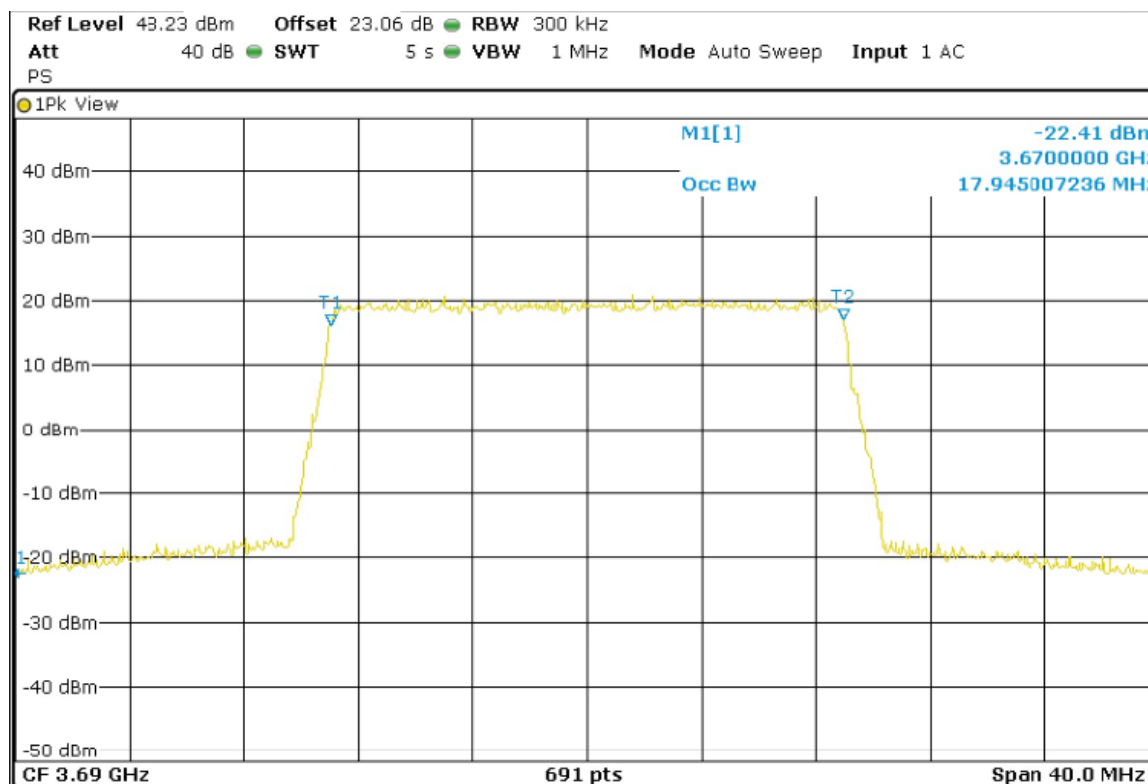


Middle Channel (3625 MHz)

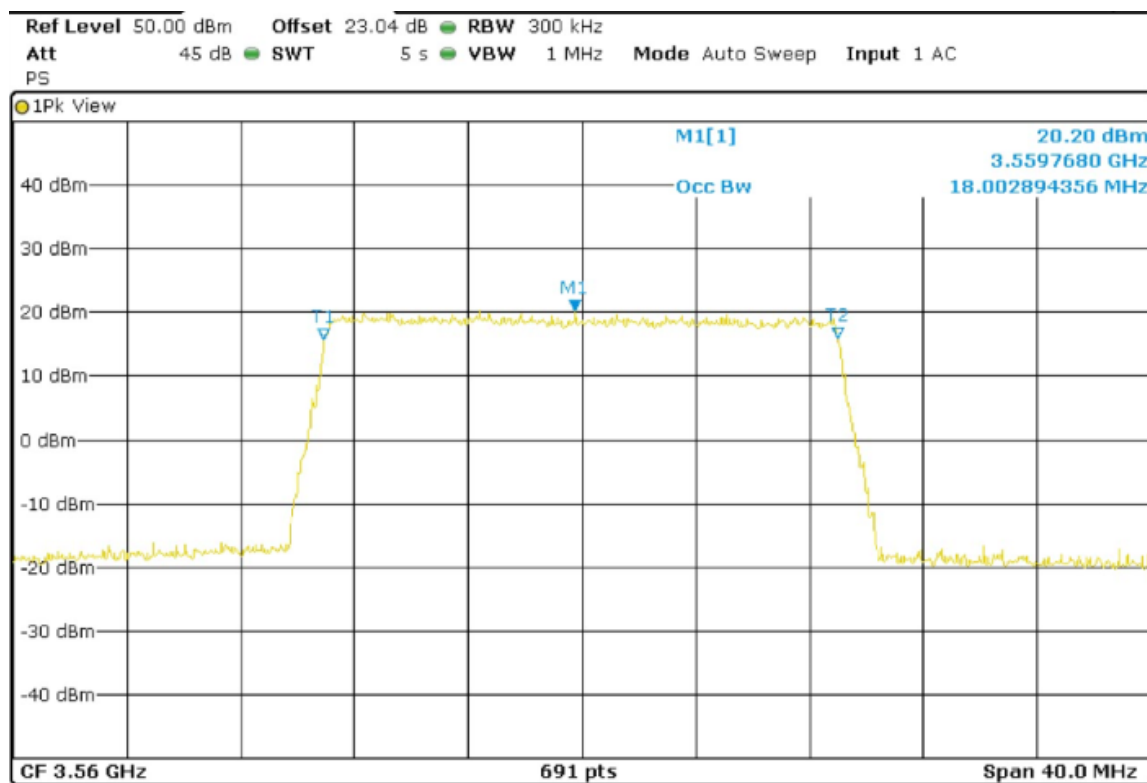


Highest Channel (3690 MHz)

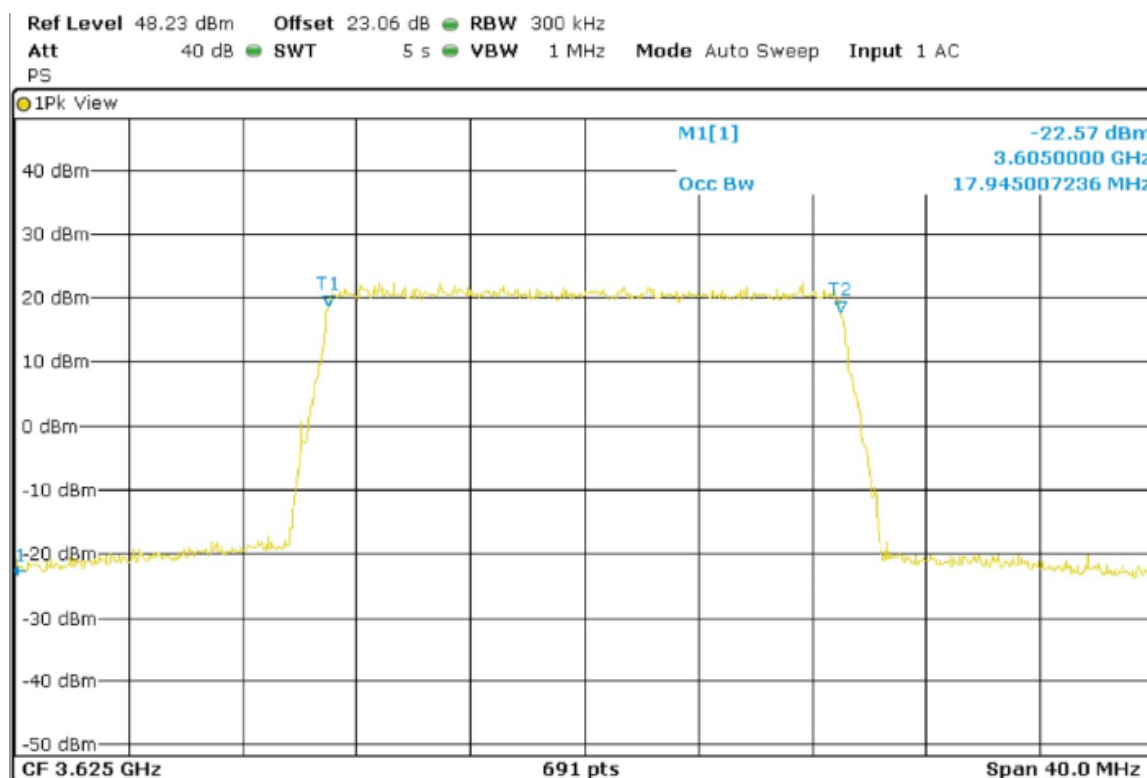


Port 3

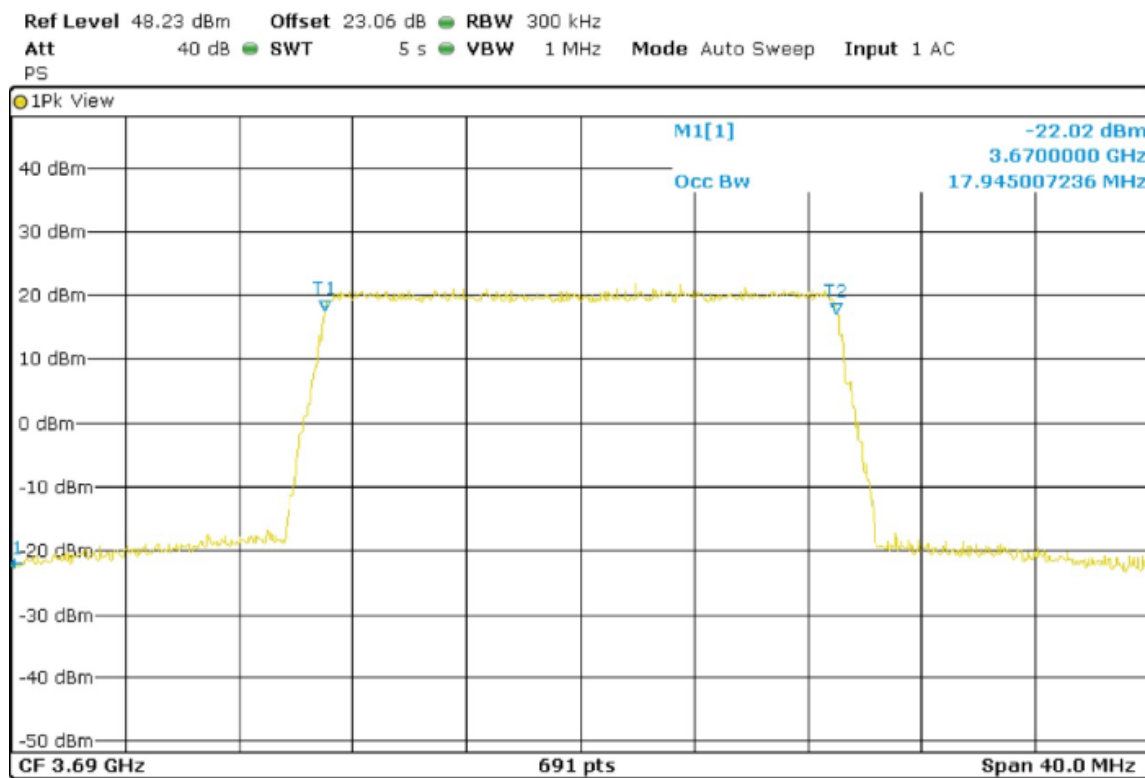
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

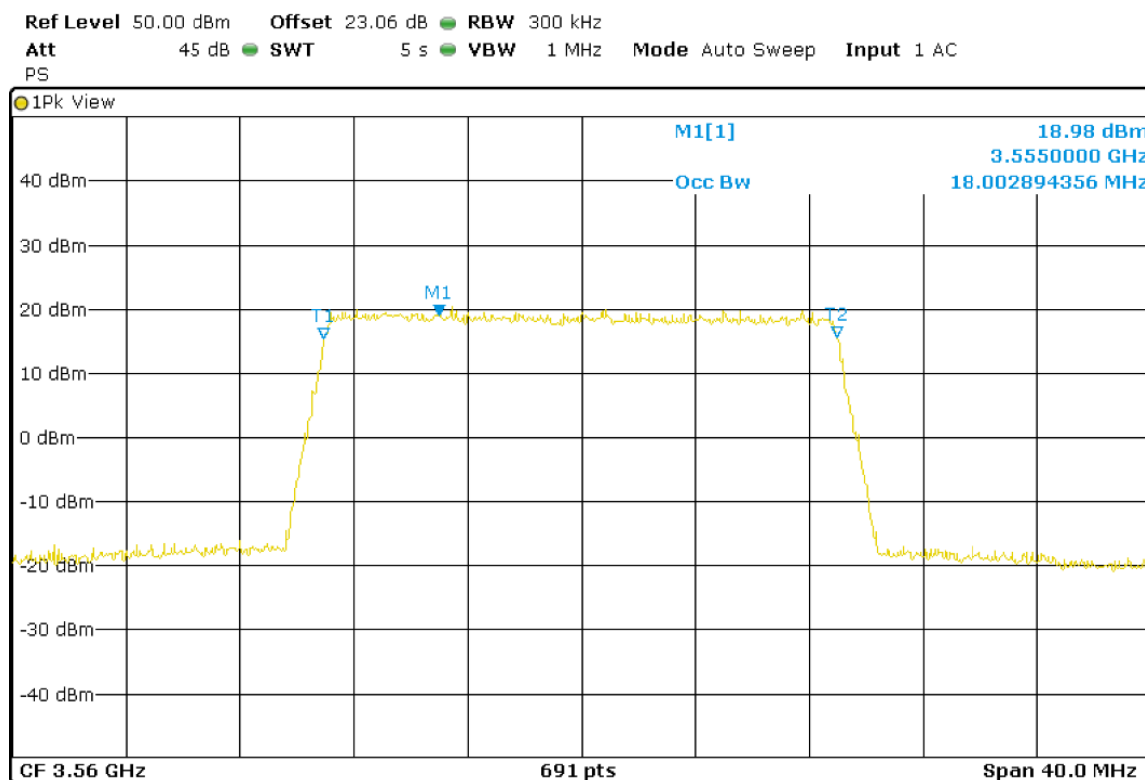


Highest Channel (3690 MHz)

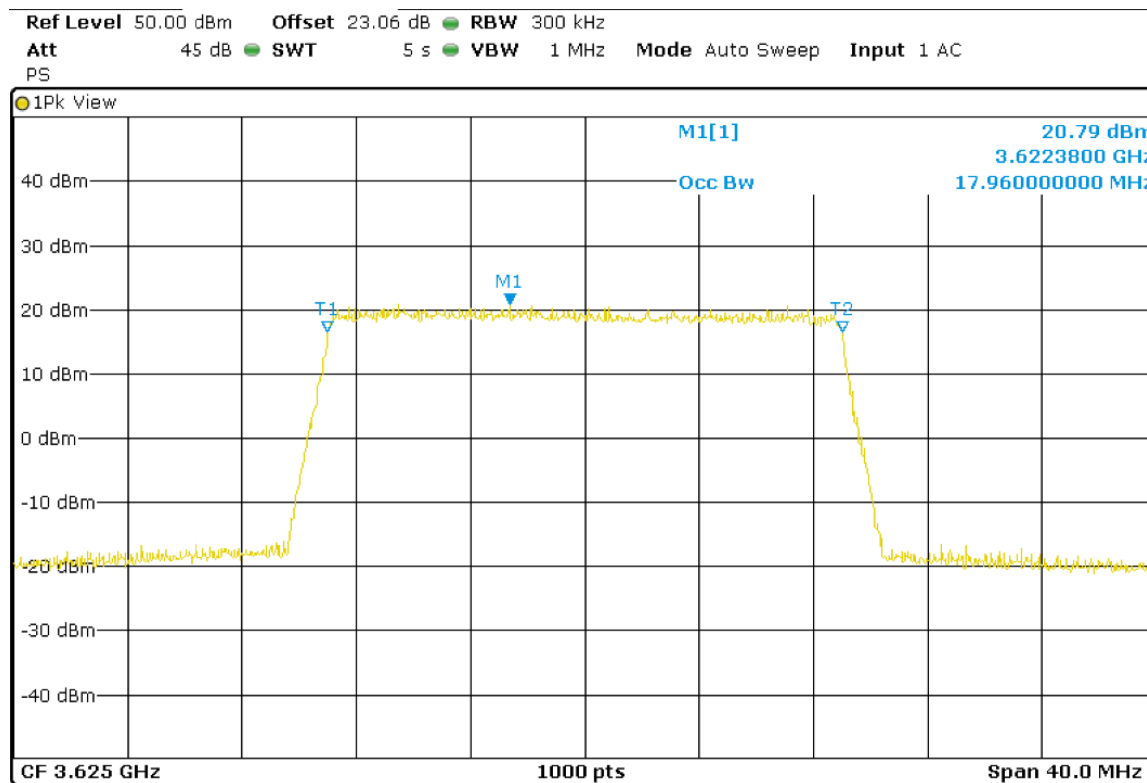


Port 4

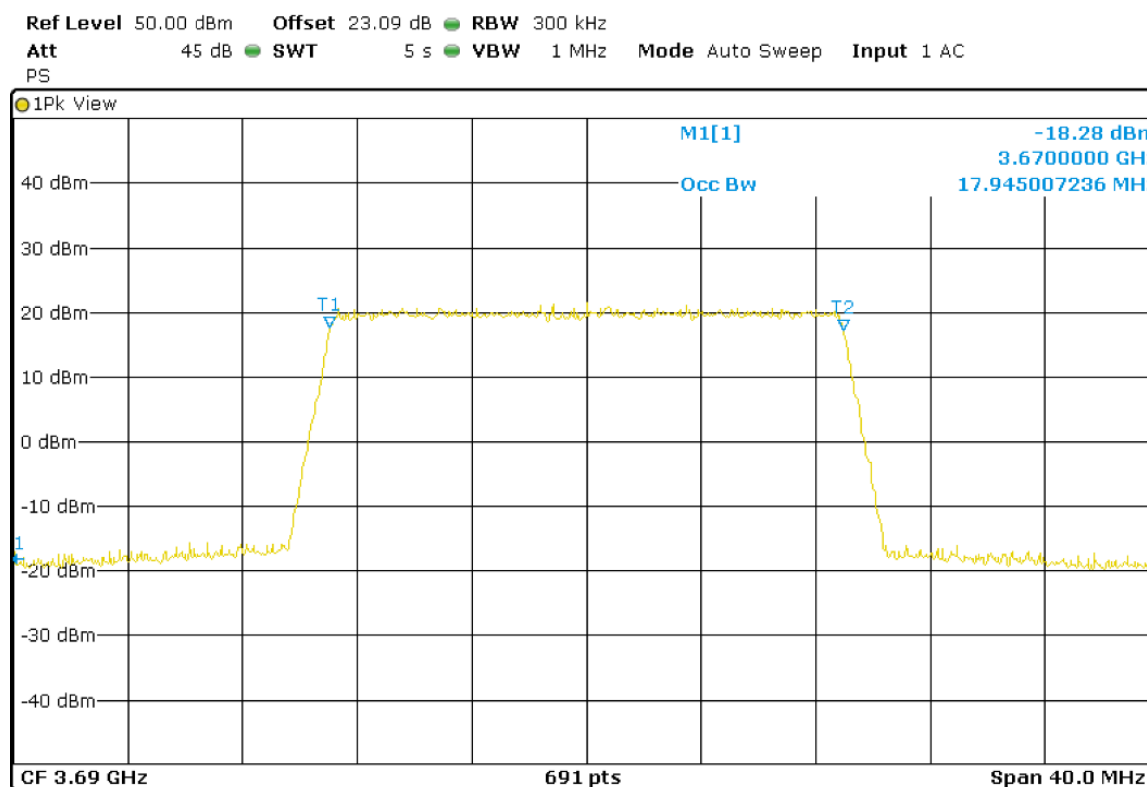
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

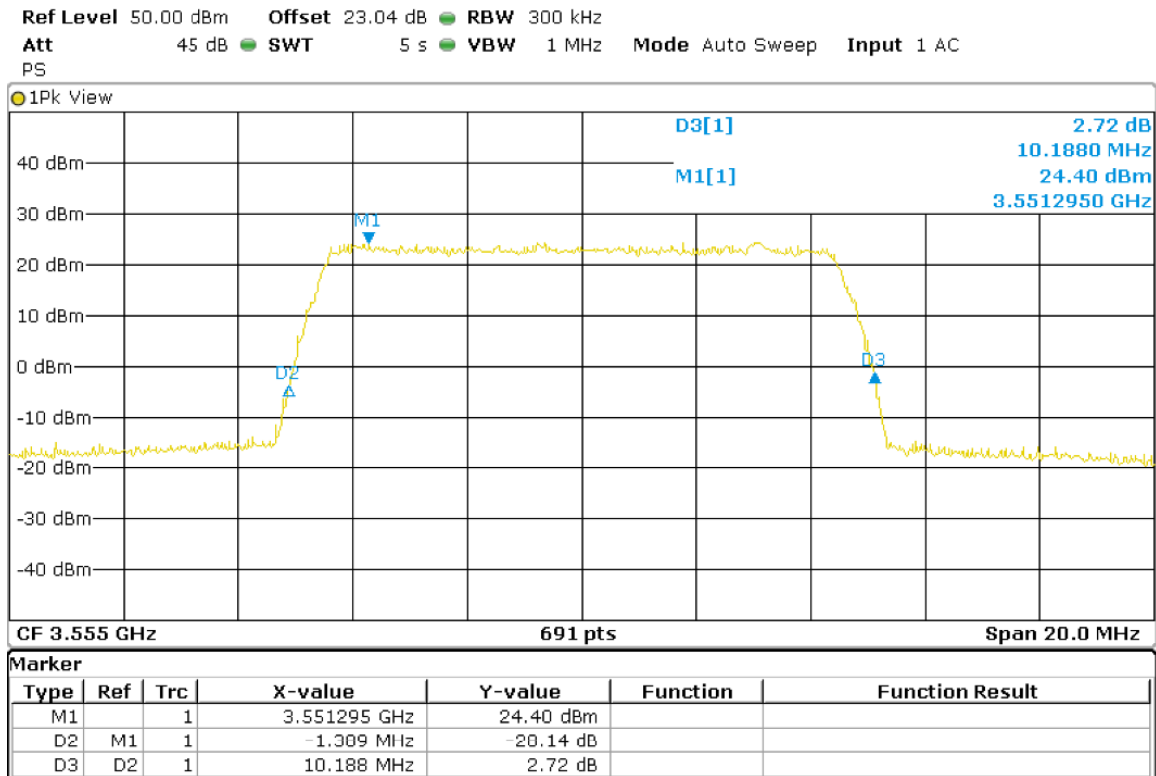


Highest Channel (3690 MHz)

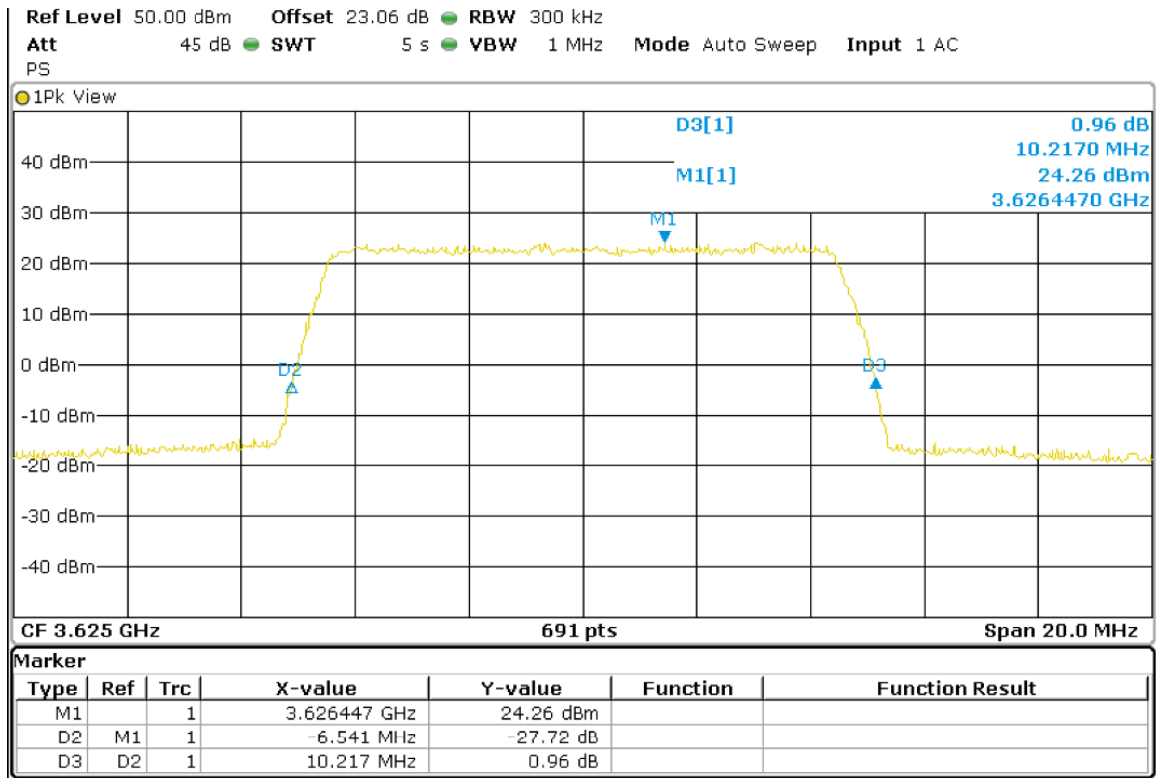


-26 dB BW
10MHz BW

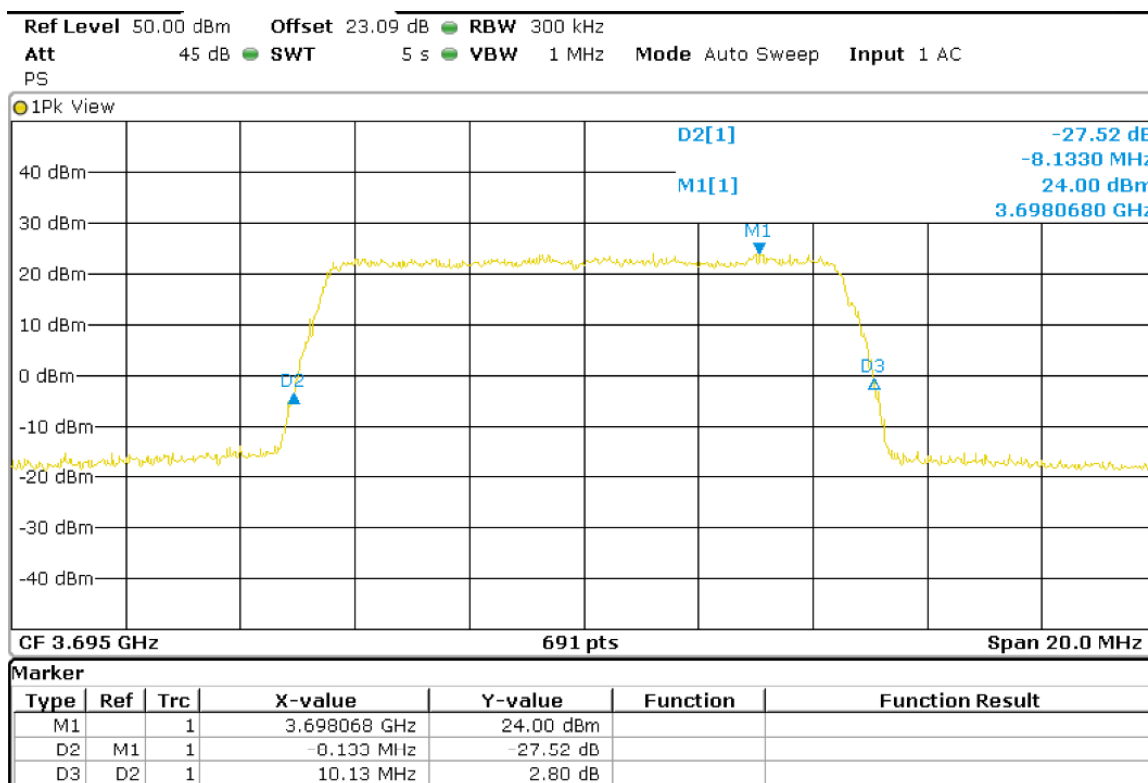
Port 1
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

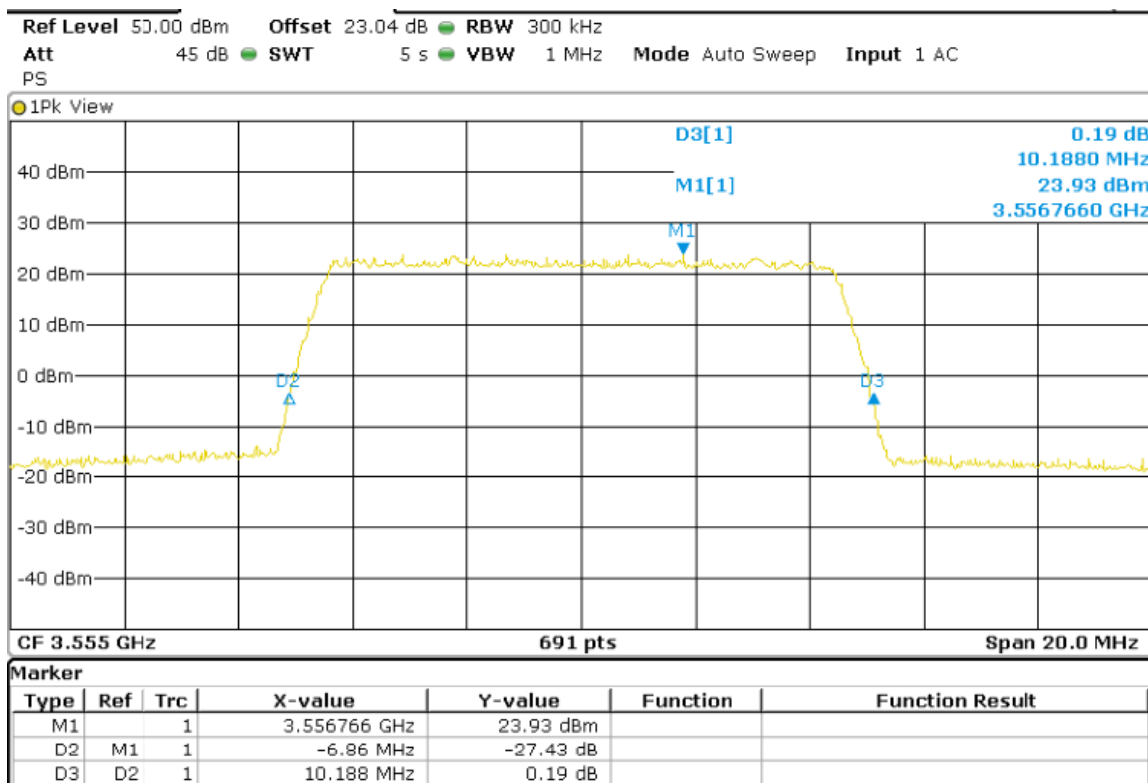


Highest Channel (3695 MHz)

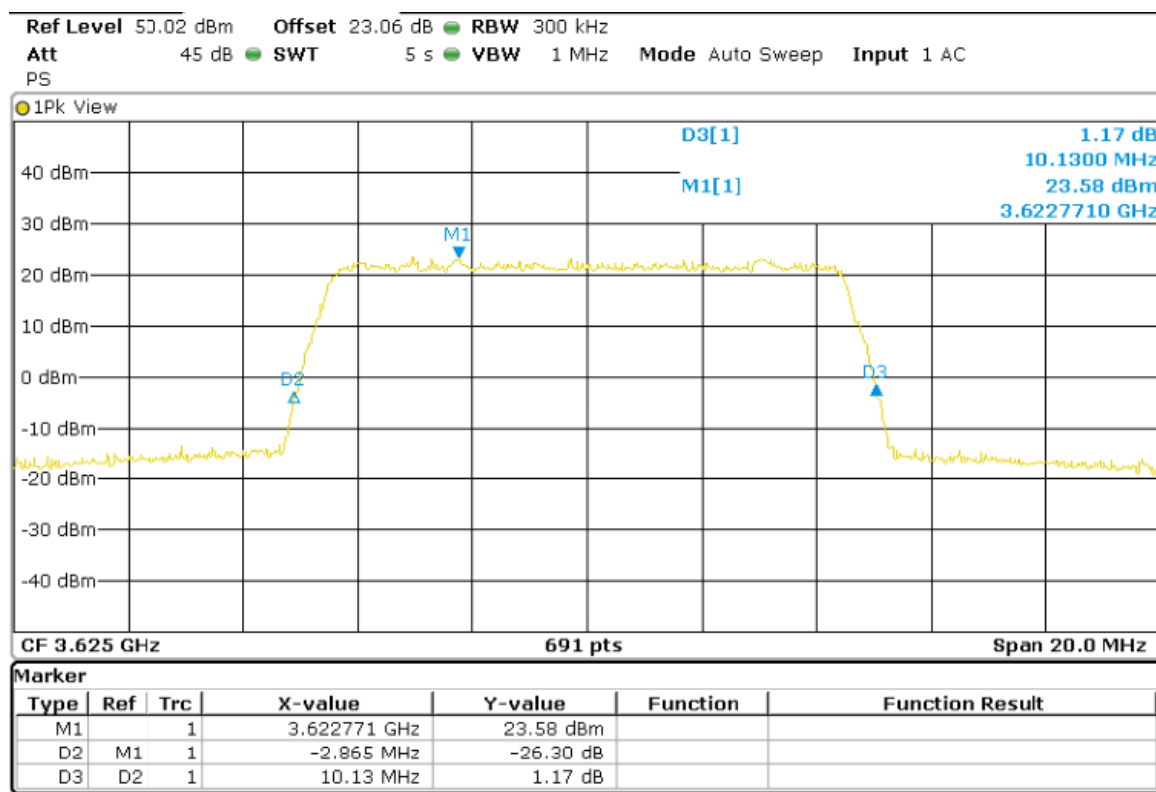


Port 2

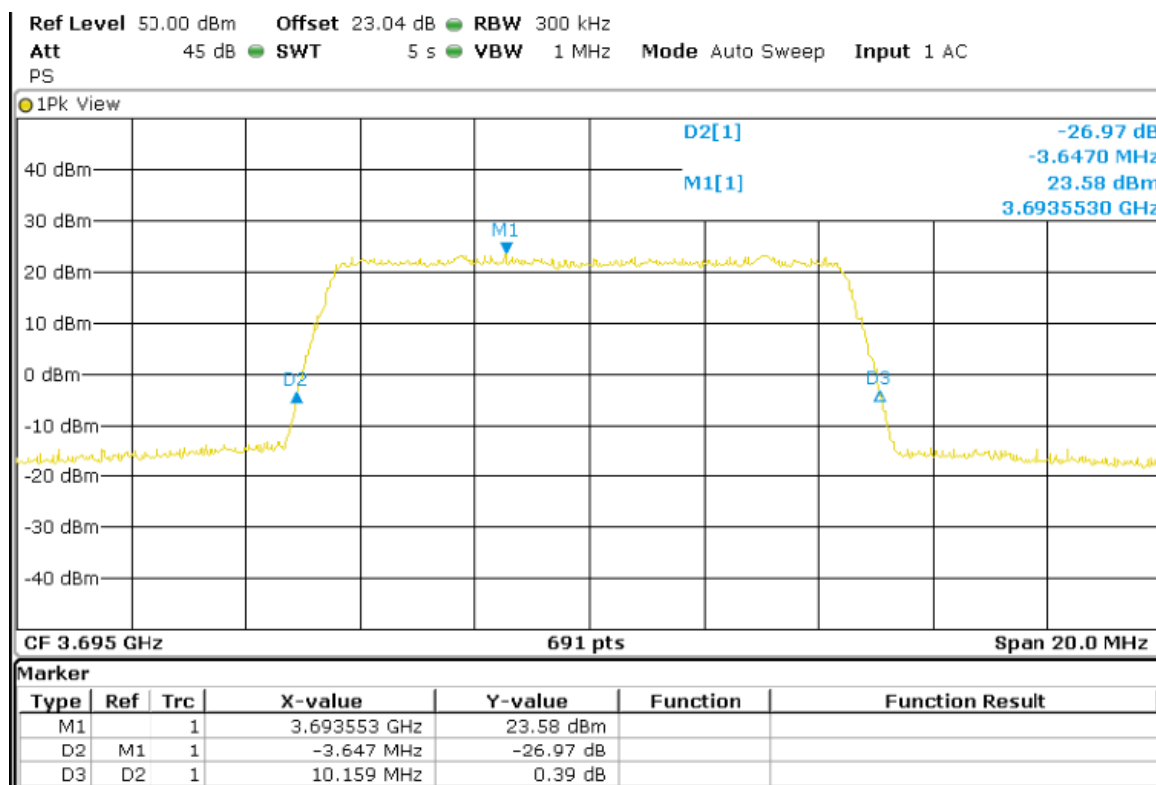
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

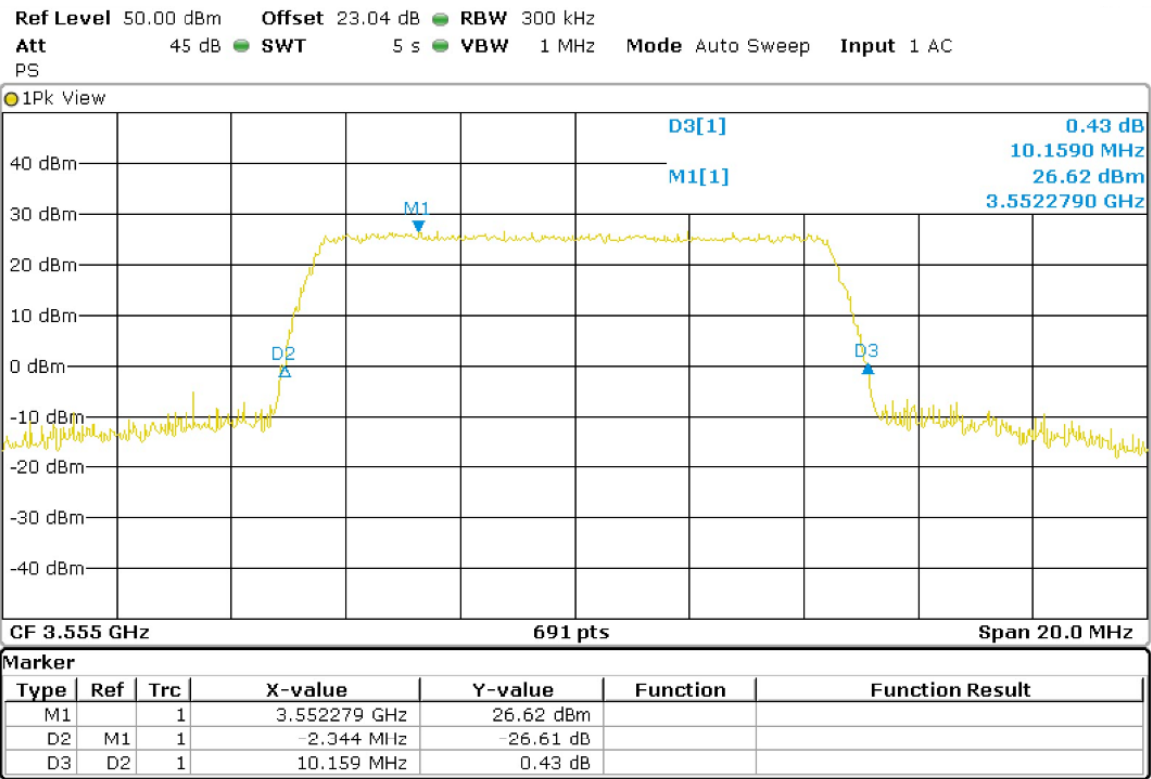


Highest Channel (3695 MHz)

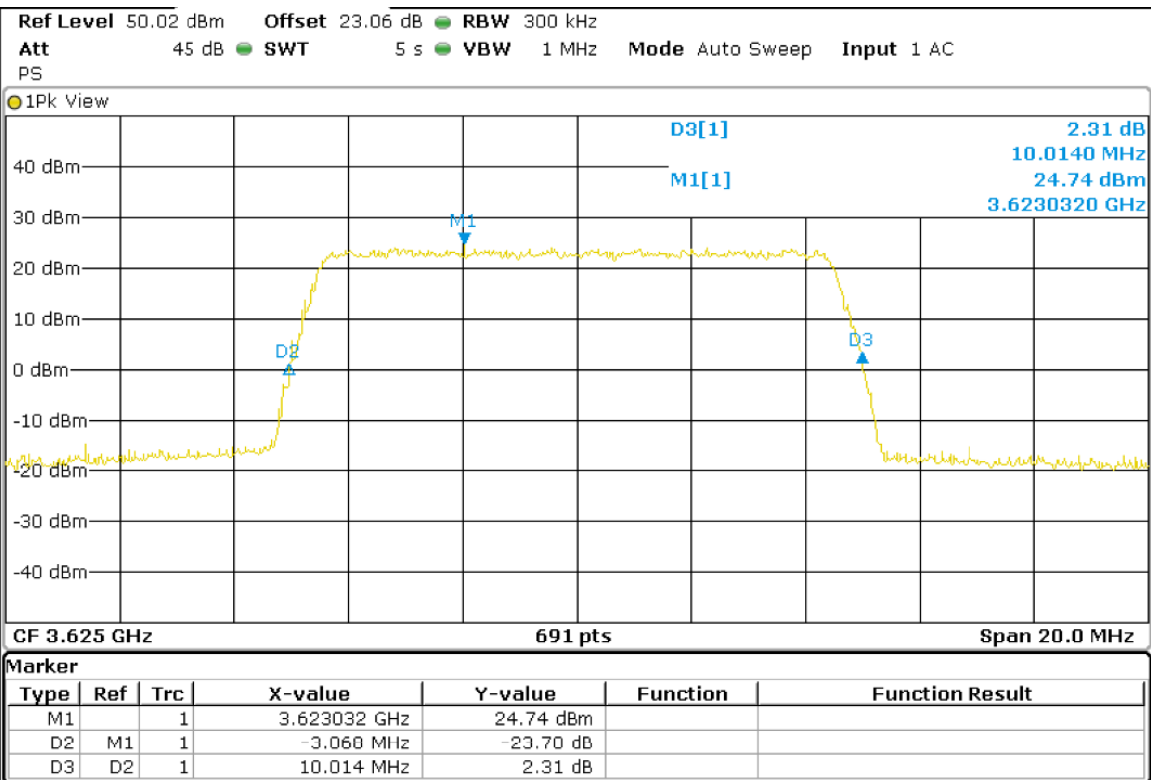


Port 3

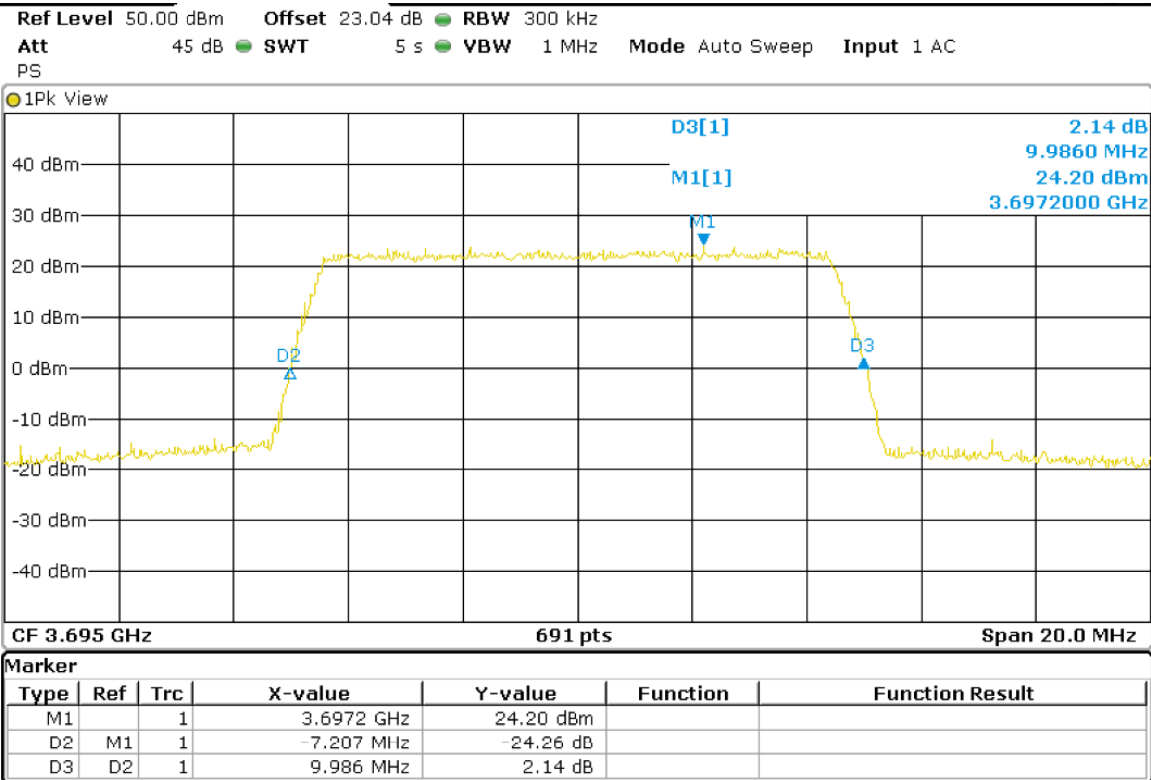
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

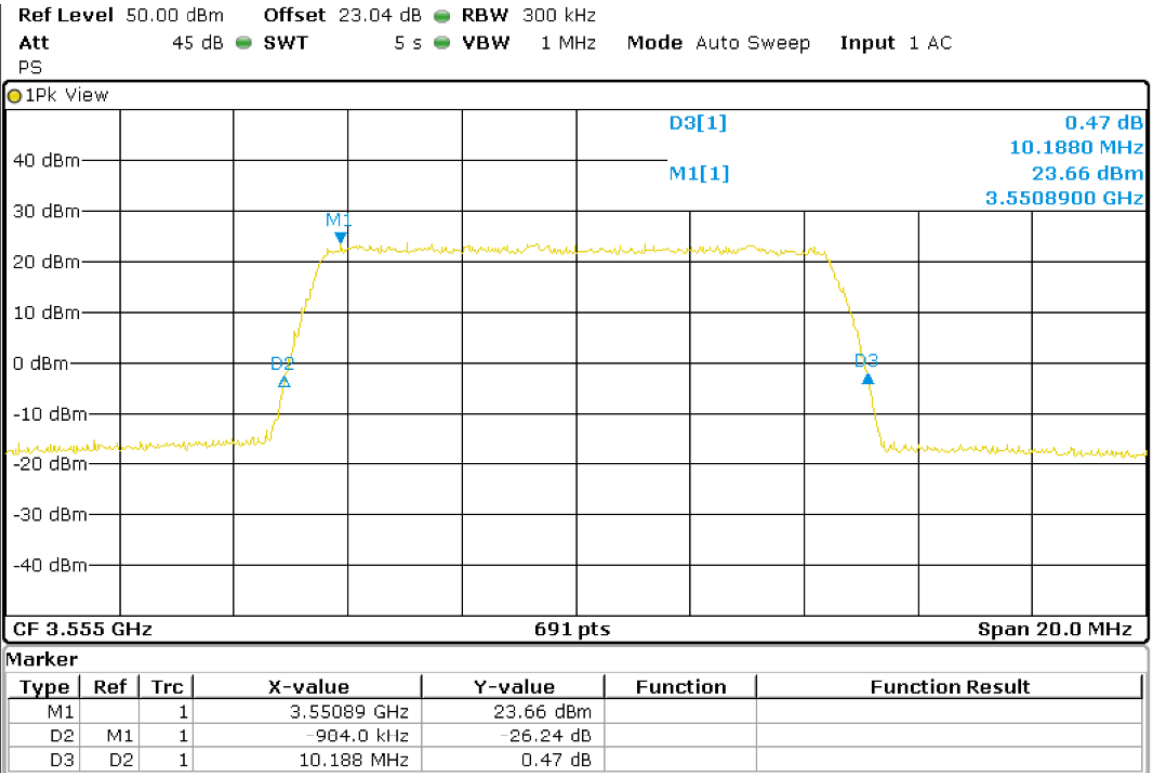


Highest Channel (3695 MHz)

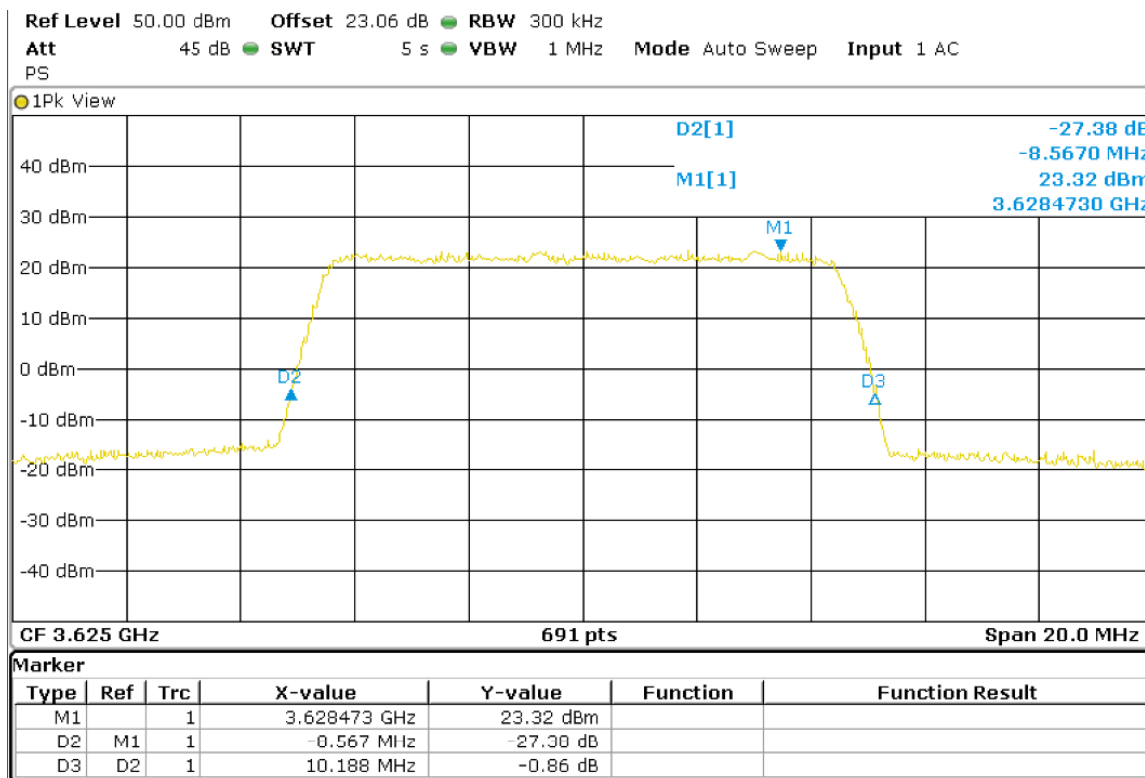


Port 4

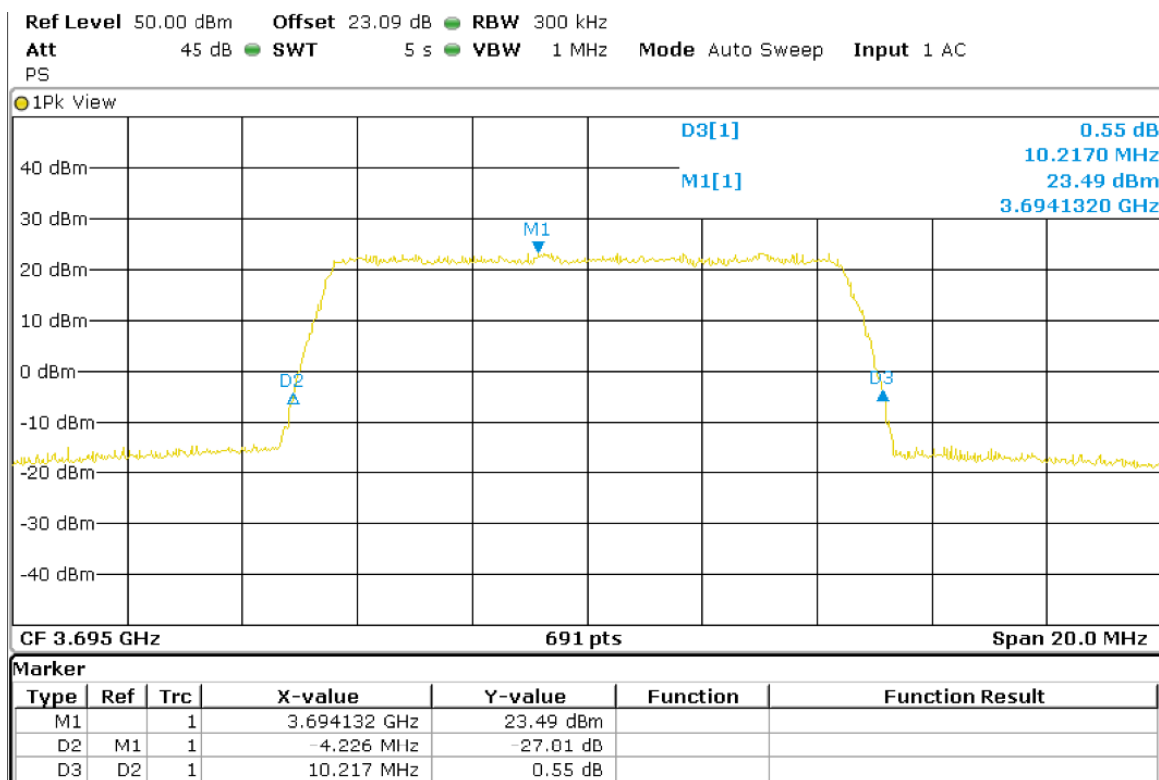
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)



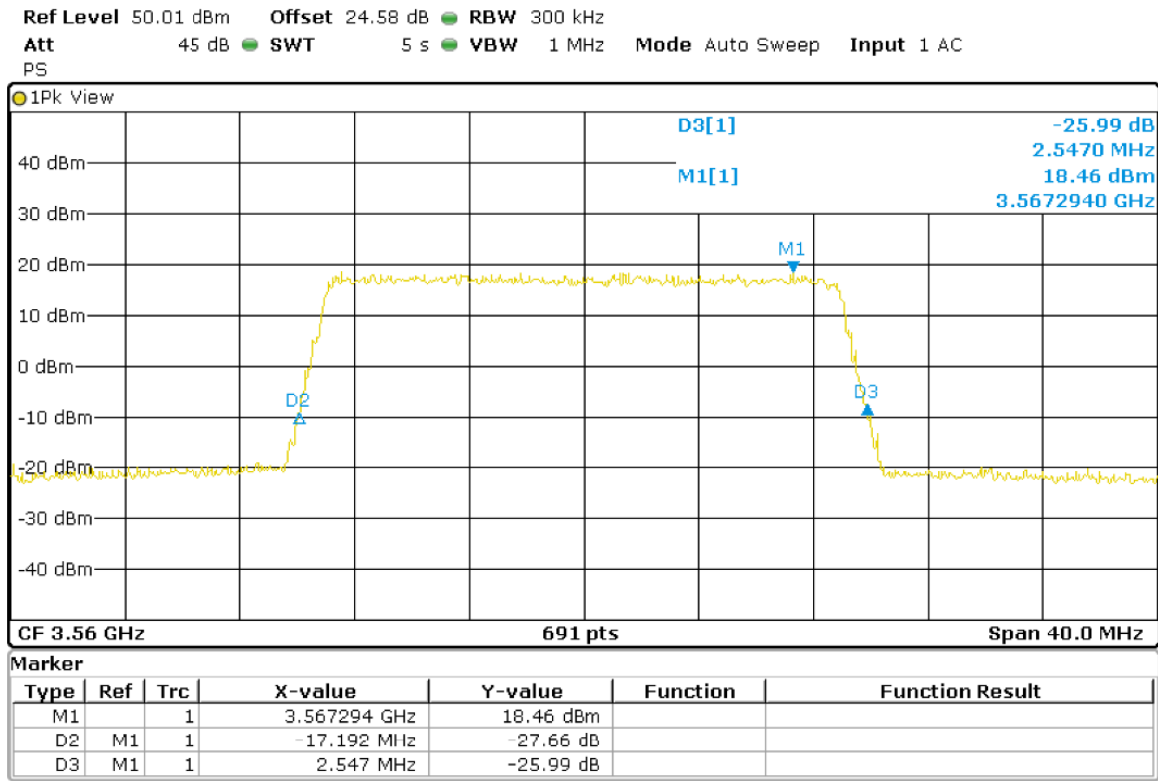
Highest Channel (3695 MHz)



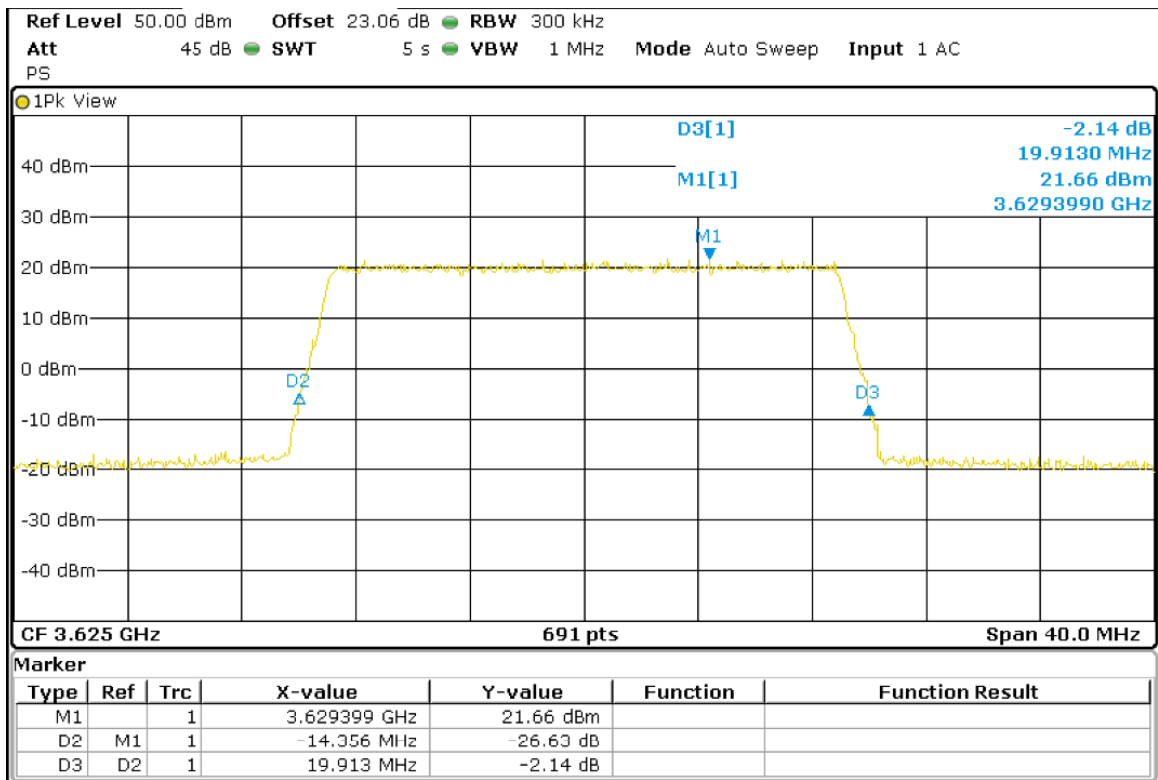
20MHz BW

Port 1

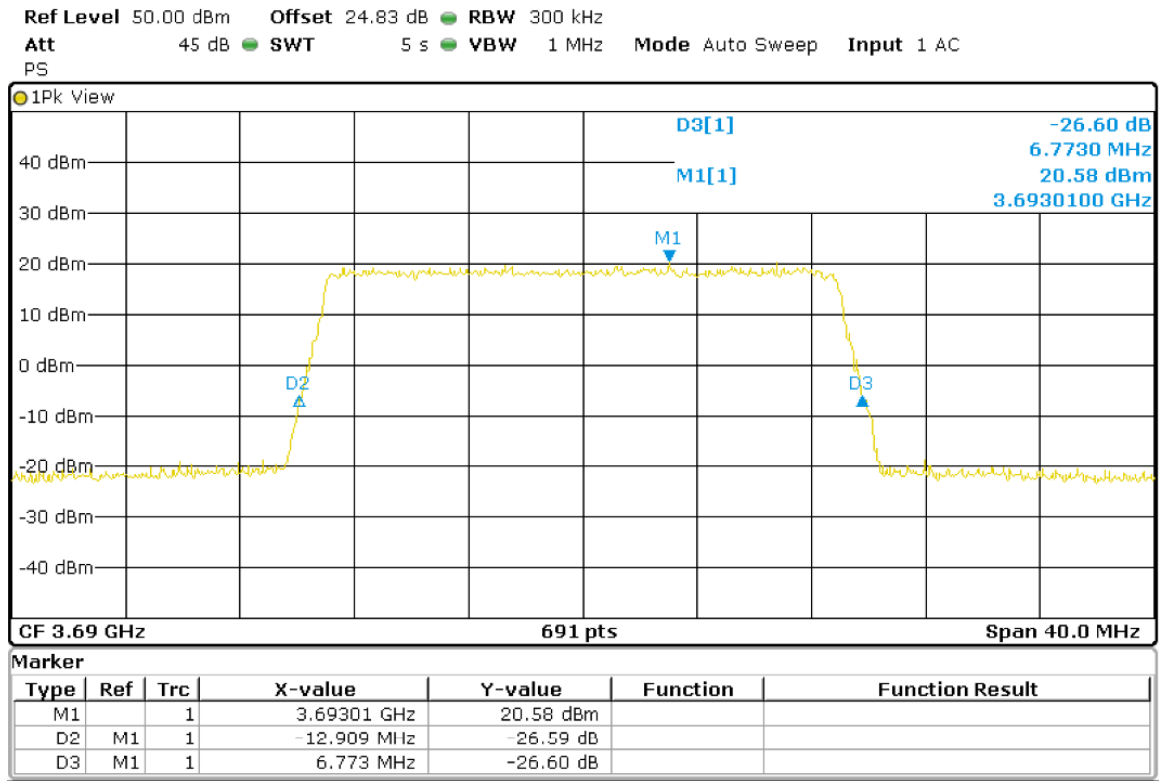
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

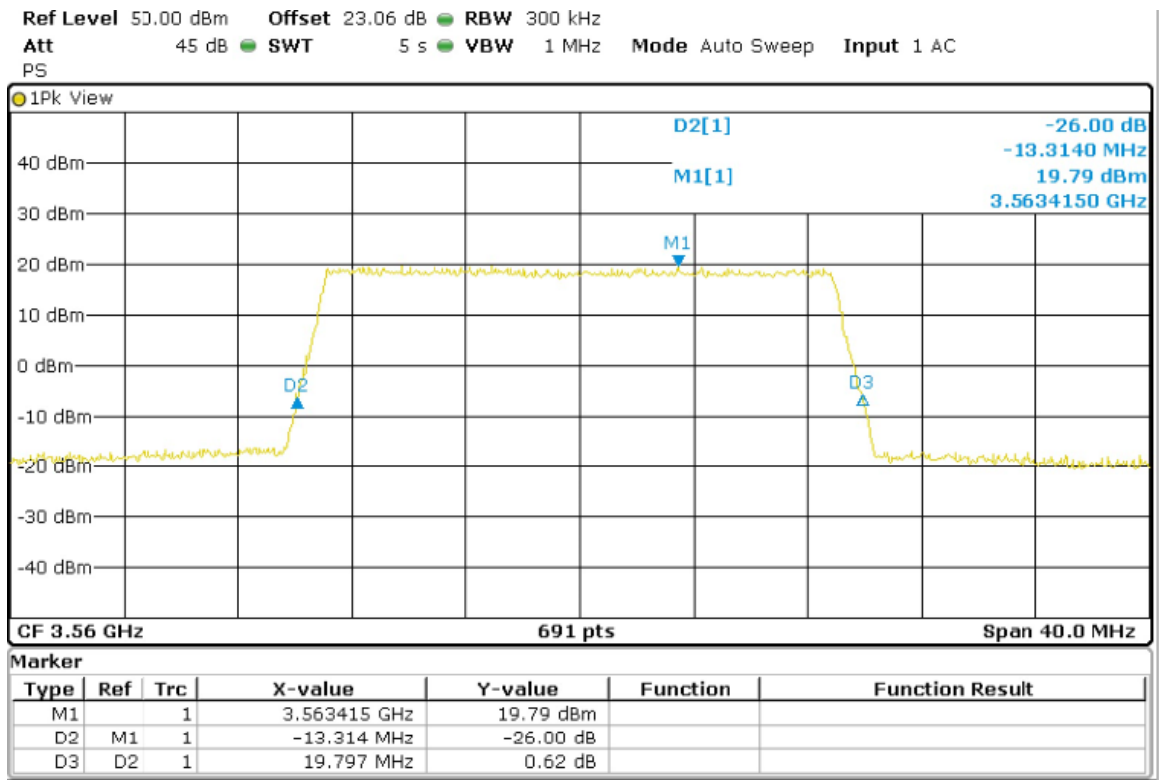


Highest Channel (3690 MHz)

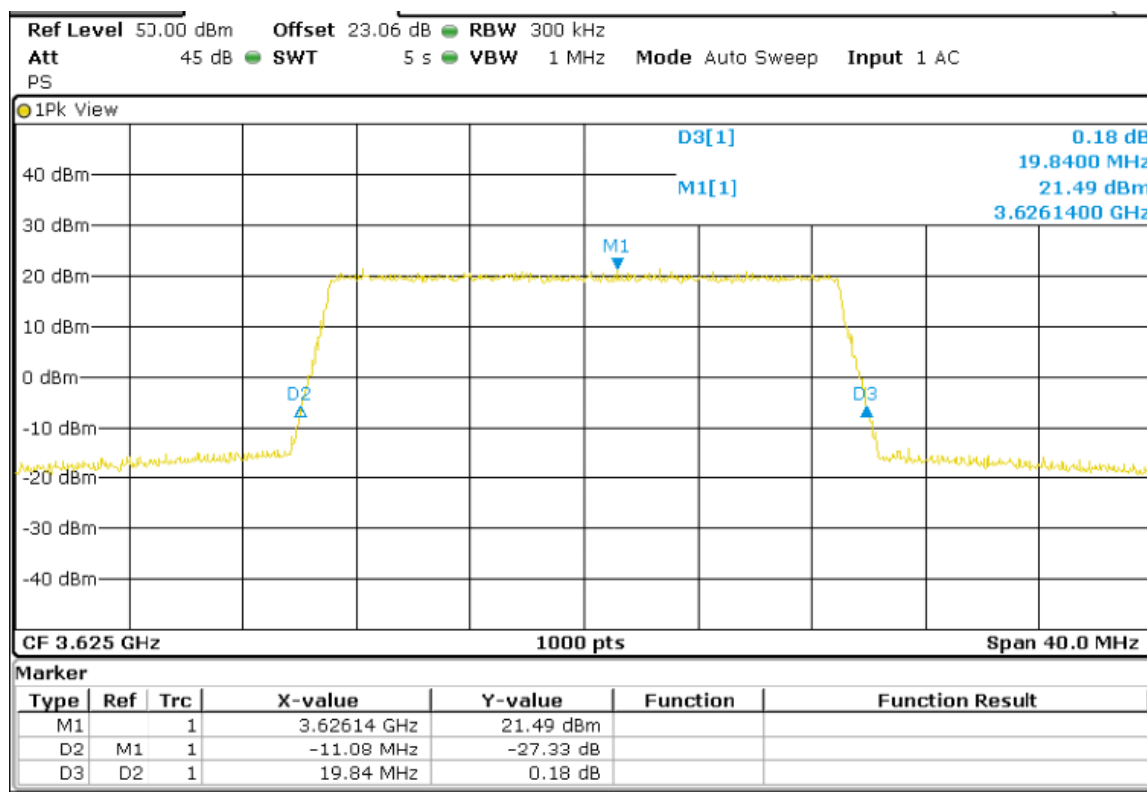


Port 2

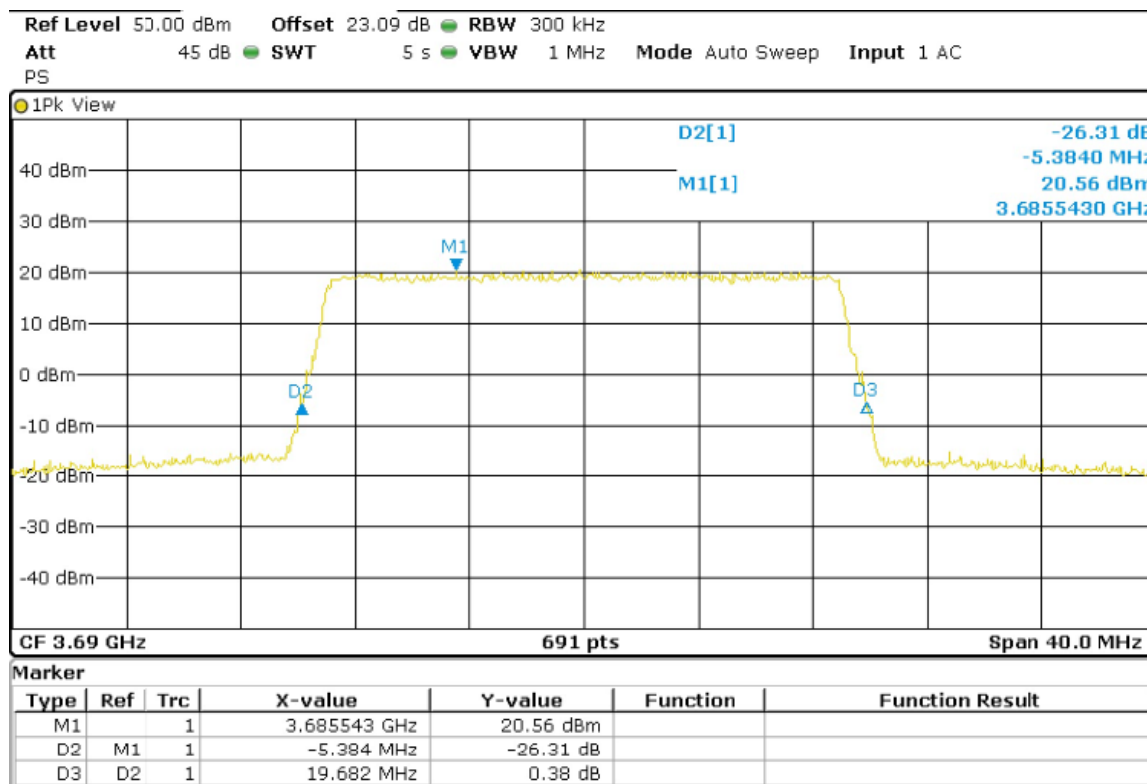
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

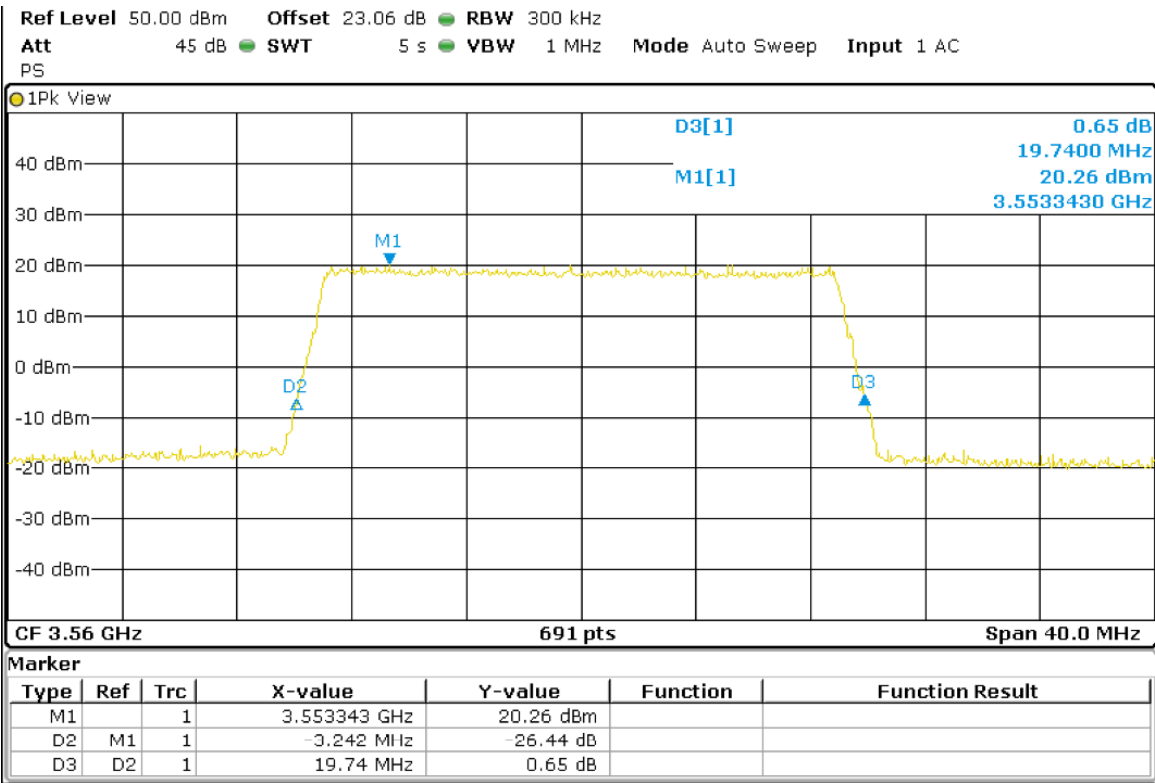


Highest Channel (3690 MHz)

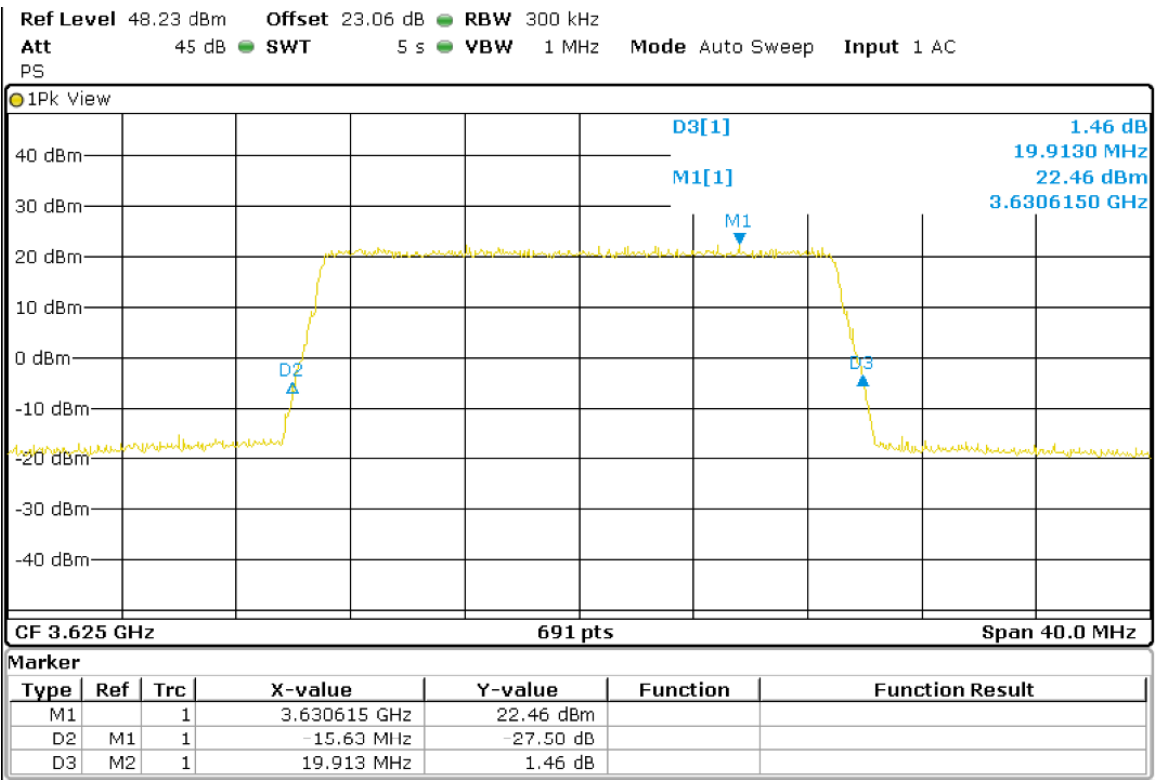


Port 3

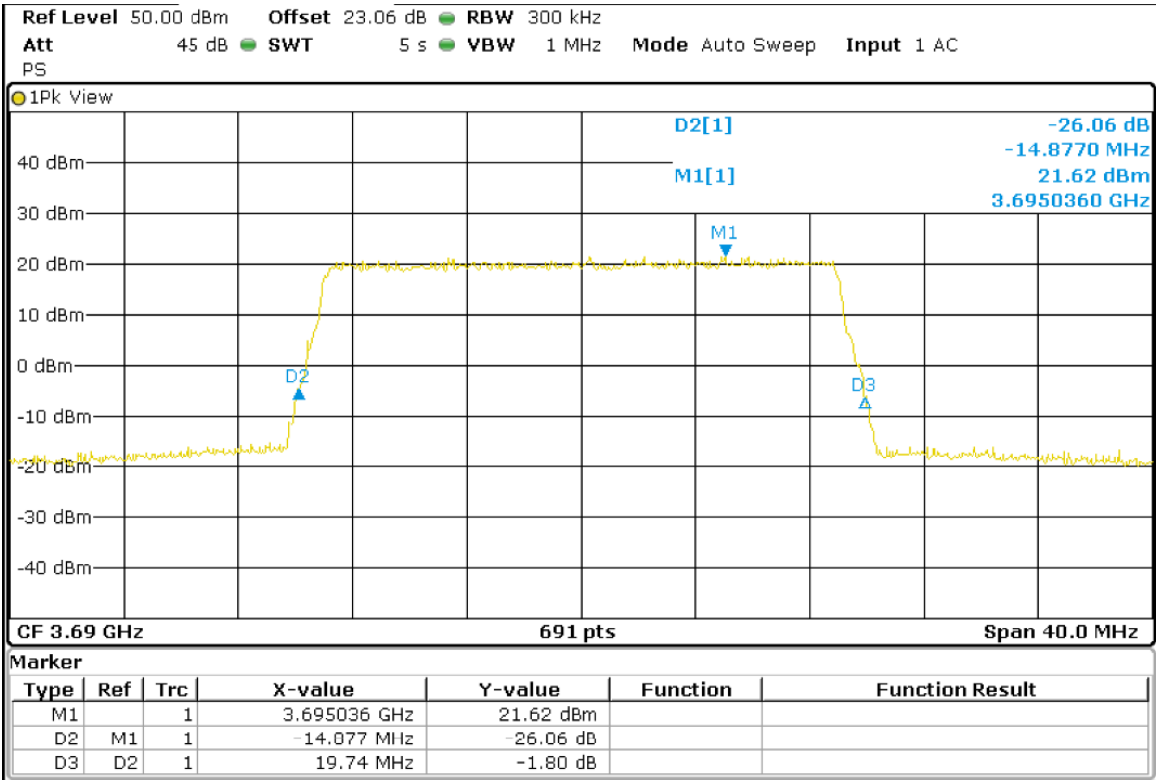
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)

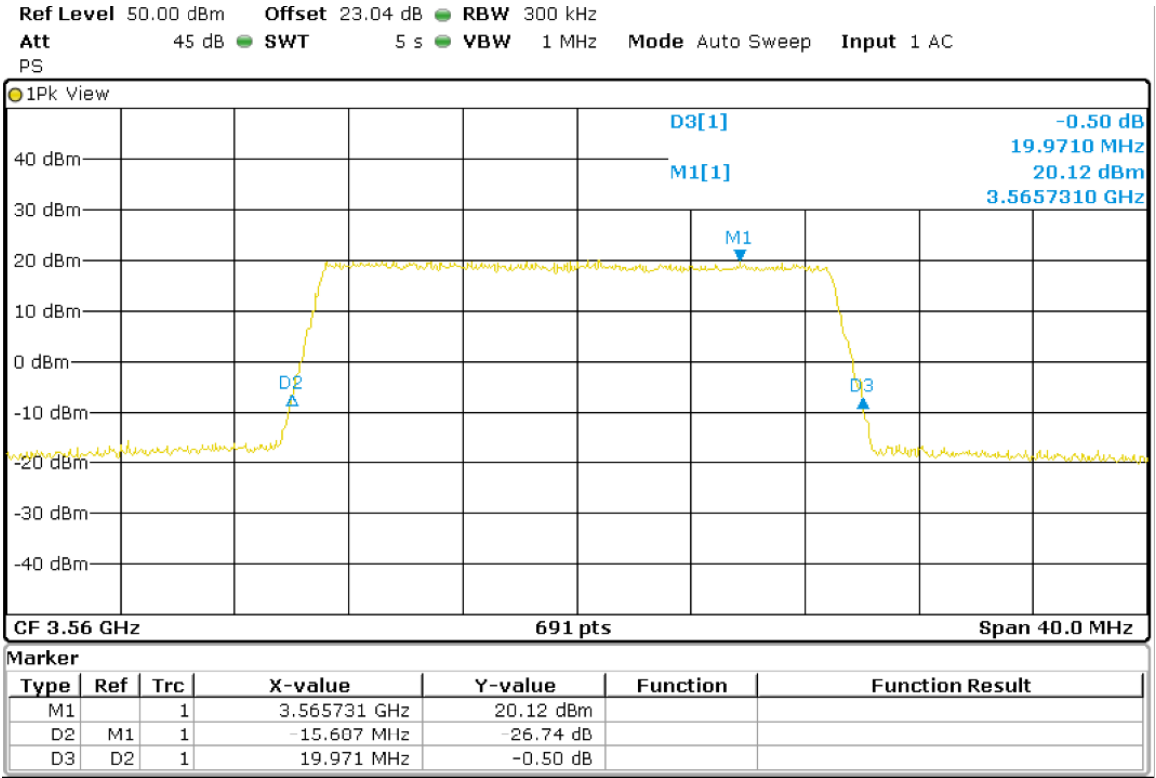


Highest Channel (3690 MHz)

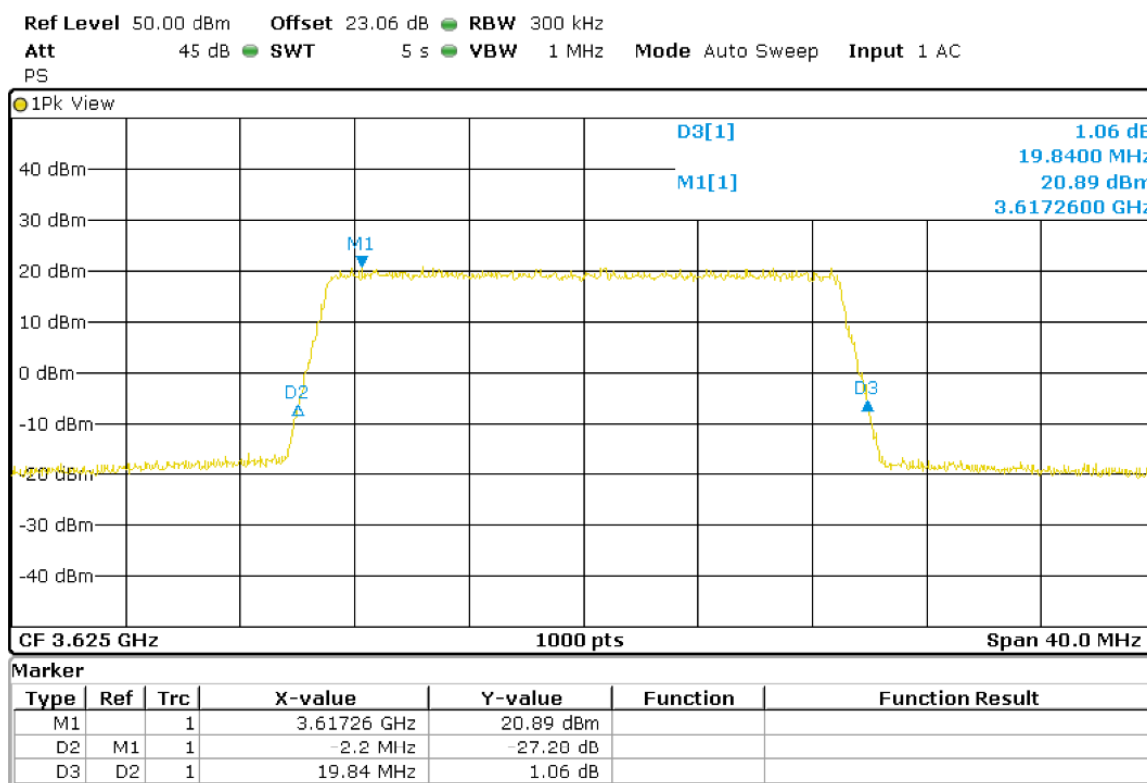


Port 4

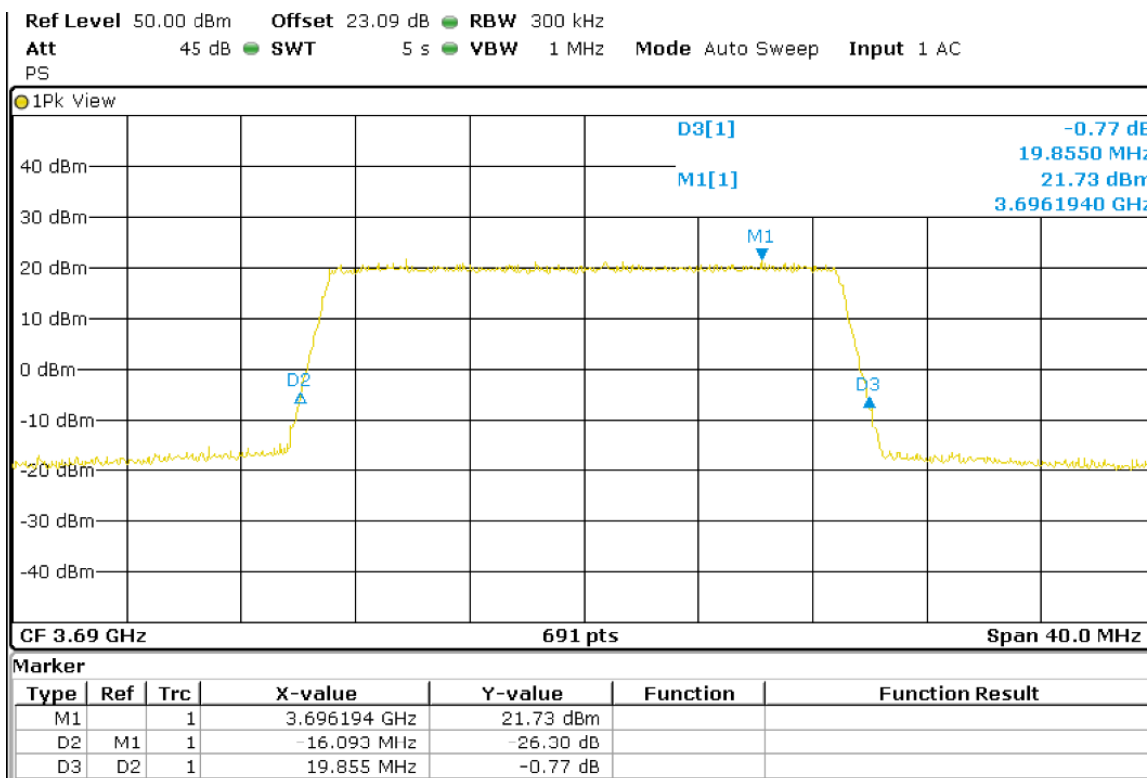
Lowest Channel (3560 MHz)



Middle Channel (3625 MHz)



Highest Channel (3690 MHz)



Section 96.41 Subclause (b). Maximum Power Spectral Density (PSD)

The rules require “maximum power spectral density” measurements, where the intent is to measure the maximum value of the time average of the power spectral density measured during a period of continuous transmission. To perform this measurement, the DUT must be configured to transmit continuously at full power. The procedure in Section 5.2 of ANSI C63.26-2015 is acceptable. The RMS detector was used for the measurement at each frequency with following the procedure stated in the Section 5.2.4.5 of ANSI C63.26-2015.

The maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the following table.

| Device | Maximum EIRP (dBm/10 MHz) | Maximum PSD (dBm/MHz) |
|------------------------|---------------------------|-----------------------|
| End User Device | 23 | n/a |
| Category A CBSD | 30 | 20 |
| Category B CBSD | 47 | 37 |

The maximum equivalent isotropically radiated power (e.i.r.p.) is calculated by adding the declared maximum antenna gain (dBi) and 10 log (1/duty cycle) was added in RF level offset to get the accurate measured power level in the average power measurement.

The duty cycle correction = $10 \log (1/0.74) = 1.31$ (dB)

The measured values from the two ports were summed by using the measure-and-sum technique in E) 1) of KDB 662911 D01 Multiple Transmitter Output v02r01 and based on two ports, port 1 and 3 (or port 2 and 4) transmitting at the same time in the 2X2 MIMO mode.

RESULTS

2x2 MIMO

10MHz BW

Port 1 and 3

| | Lowest frequency 3555 MHz | Middle frequency 3625 MHz | Highest frequency 3695 MHz |
|-------------------------------------|------------------------------|------------------------------|-------------------------------|
| PSD at Port 1 (dBm/MHz) | 16.17 | 16.29 | 16.55 |
| PSD at Port 3 (dBm/MHz) | 16.58 | 16.61 | 16.06 |
| Summed PSD (dBm/MHz) | 19.39 | 19.46 | 19.32 |
| Maximum declared antenna gain (dBi) | 17.50 | 17.50 | 17.50 |
| Maximum PSD (dBm/MHz) | 36.89 | 36.96 | 36.82 |
| Measurement Uncertainty | < ± 0.95 | | |

Port 2 and 4

| | Lowest frequency 3555 MHz | Middle frequency 3625 MHz | Highest frequency 3695 MHz |
|-------------------------------------|------------------------------|------------------------------|-------------------------------|
| PSD at Port 2 (dBm/MHz) | 16.39 | 16.00 | 16.29 |
| PSD at Port 4 (dBm/MHz) | 16.44 | 16.34 | 16.35 |
| Summed PSD (dBm/MHz) | 19.43 | 19.18 | 19.33 |
| Maximum declared antenna gain (dBi) | 17.50 | 17.50 | 17.50 |
| Maximum PSD (dBm/MHz) | 36.93 | 36.68 | 36.83 |
| Measurement Uncertainty | < ± 0.95 | | |

20MHz BW

Port 1 and 3

| | Lowest frequency 3560 MHz | Middle frequency 3625 MHz | Highest frequency 3690 MHz |
|-------------------------------------|------------------------------|------------------------------|-------------------------------|
| PSD at Port 1 (dBm/MHz) | 12.92 | 13.74 | 13.54 |
| PSD at Port 3 (dBm/MHz) | 12.97 | 15.00 | 14.27 |
| Summed PSD (dBm/MHz) | 15.96 | 17.43 | 16.93 |
| Maximum declared antenna gain (dBi) | 17.50 | 17.50 | 17.50 |
| Maximum PSD (dBm/MHz) | 33.46 | 34.93 | 34.43 |
| Measurement Uncertainty | < ± 0.95 | | |

Port 2 and 4

| | Lowest frequency 3560 MHz | Middle frequency 3625 MHz | Highest frequency 3690 MHz |
|-------------------------------------|------------------------------|------------------------------|-------------------------------|
| PSD at Port 2 (dBm/MHz) | 14.44 | 14.18 | 16.19 |
| PSD at Port 4 (dBm/MHz) | 13.35 | 13.84 | 14.32 |
| Summed PSD (dBm/MHz) | 16.94 | 17.02 | 18.37 |
| Maximum declared antenna gain (dBi) | 17.50 | 17.50 | 17.50 |
| Maximum PSD (dBm/MHz) | 34.44 | 34.52 | 35.87 |
| Measurement Uncertainty | < ± 0.95 | | |

VERDICT: PASS

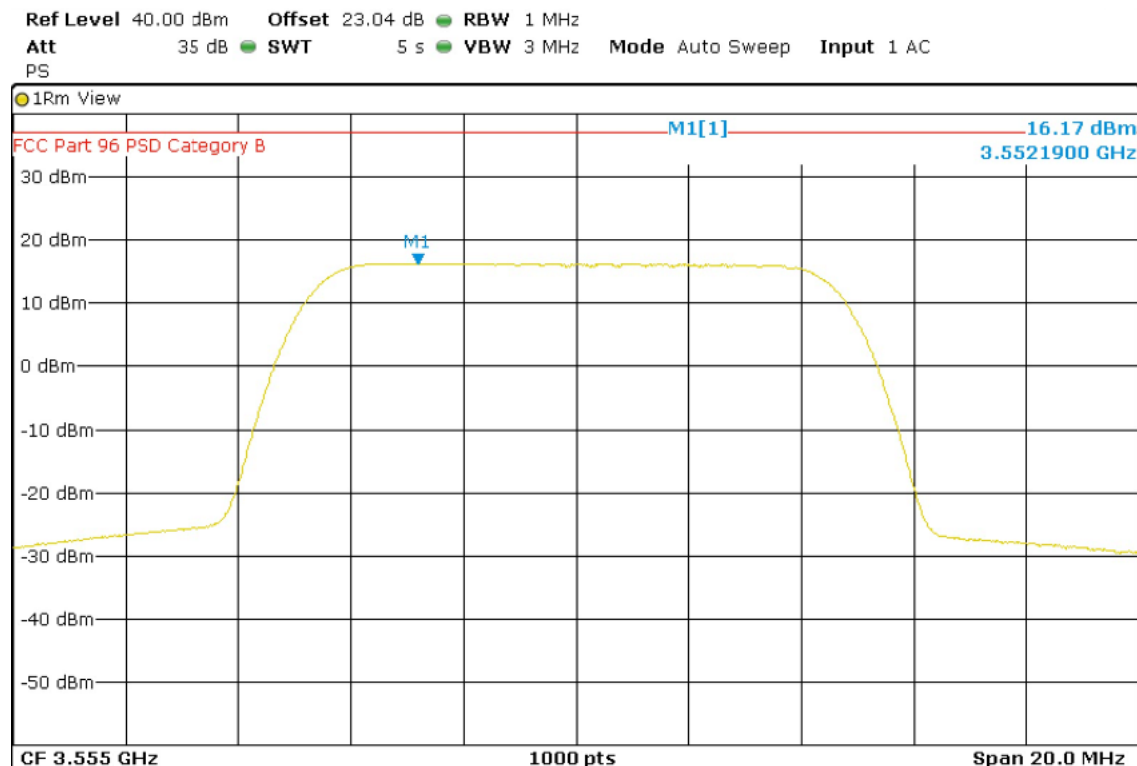
(See next plots)

2X2 MIMO mode:

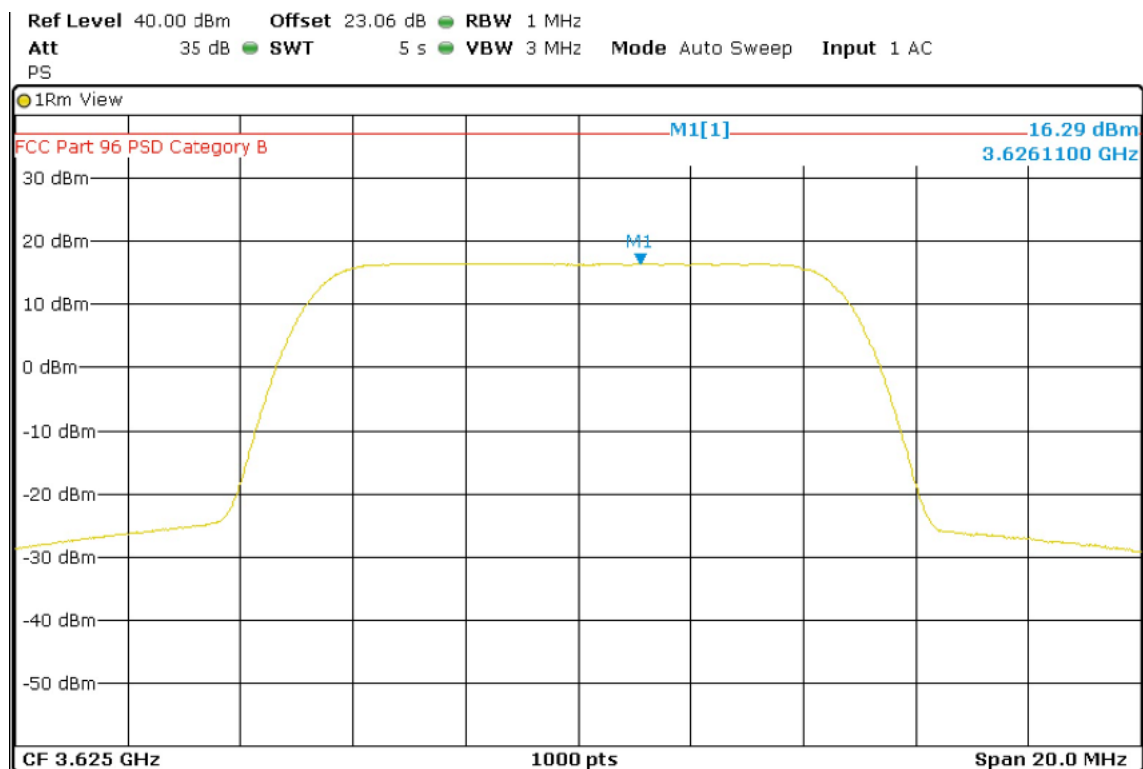
10MHz BW

Port 1

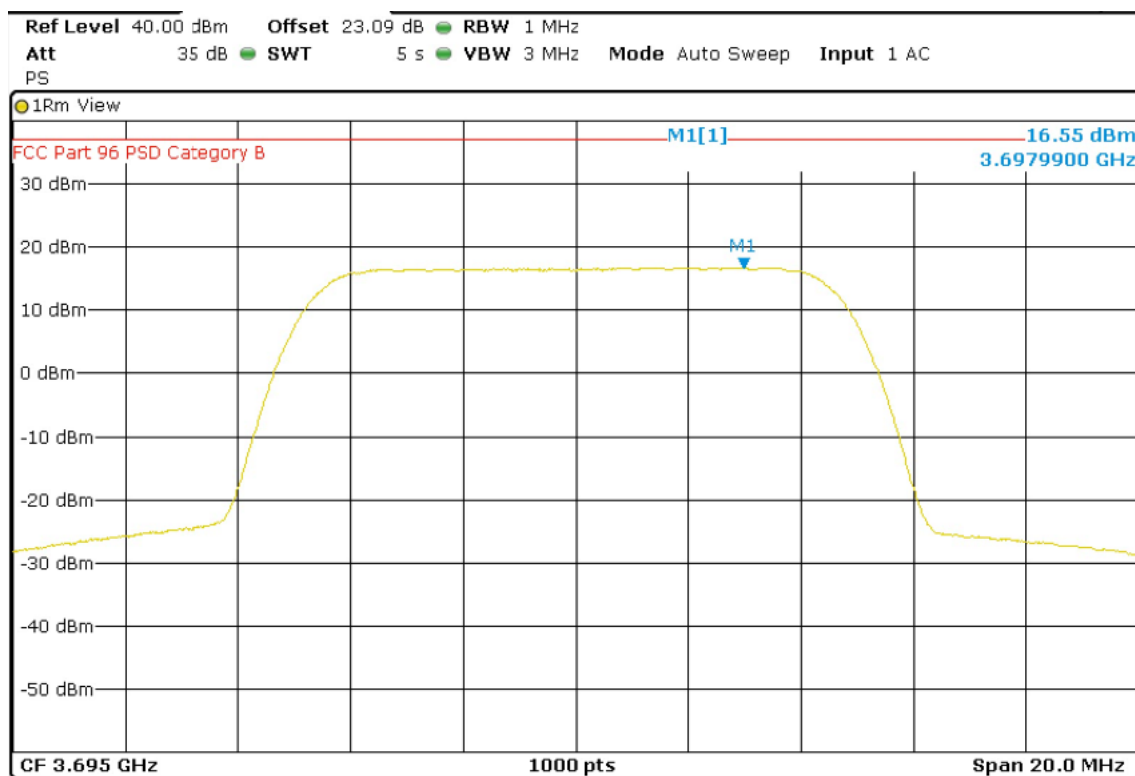
Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)

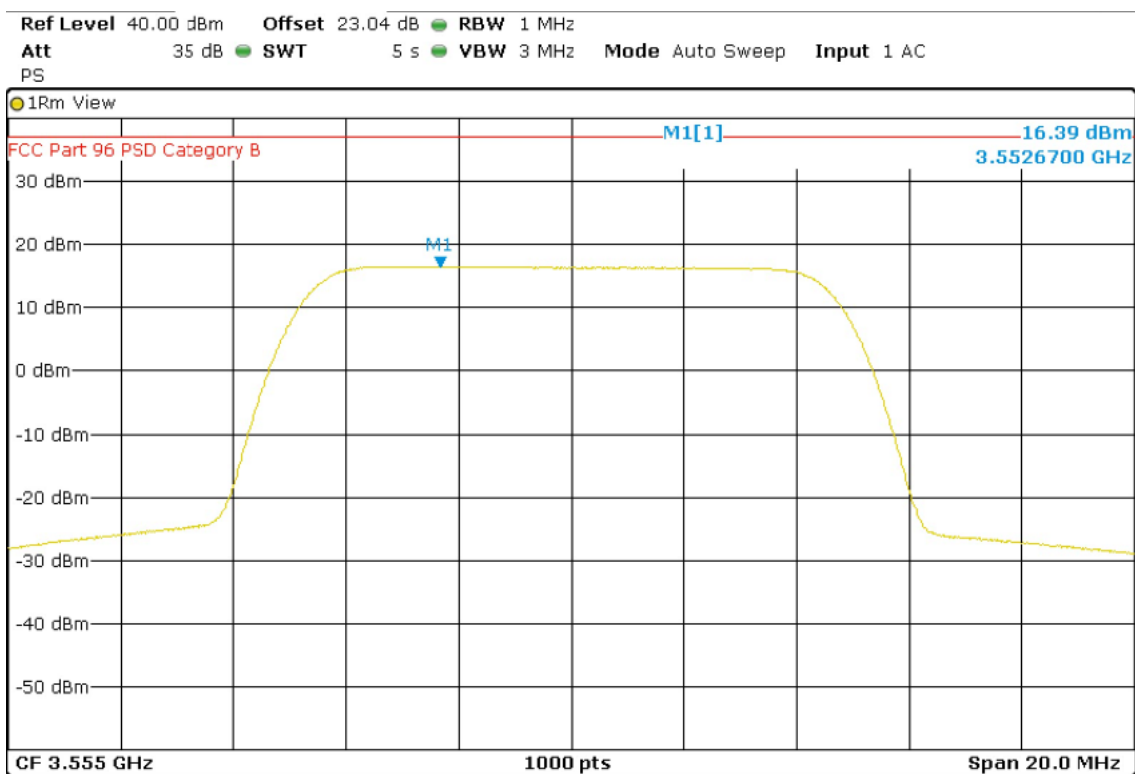


Highest Channel (3695 MHz)

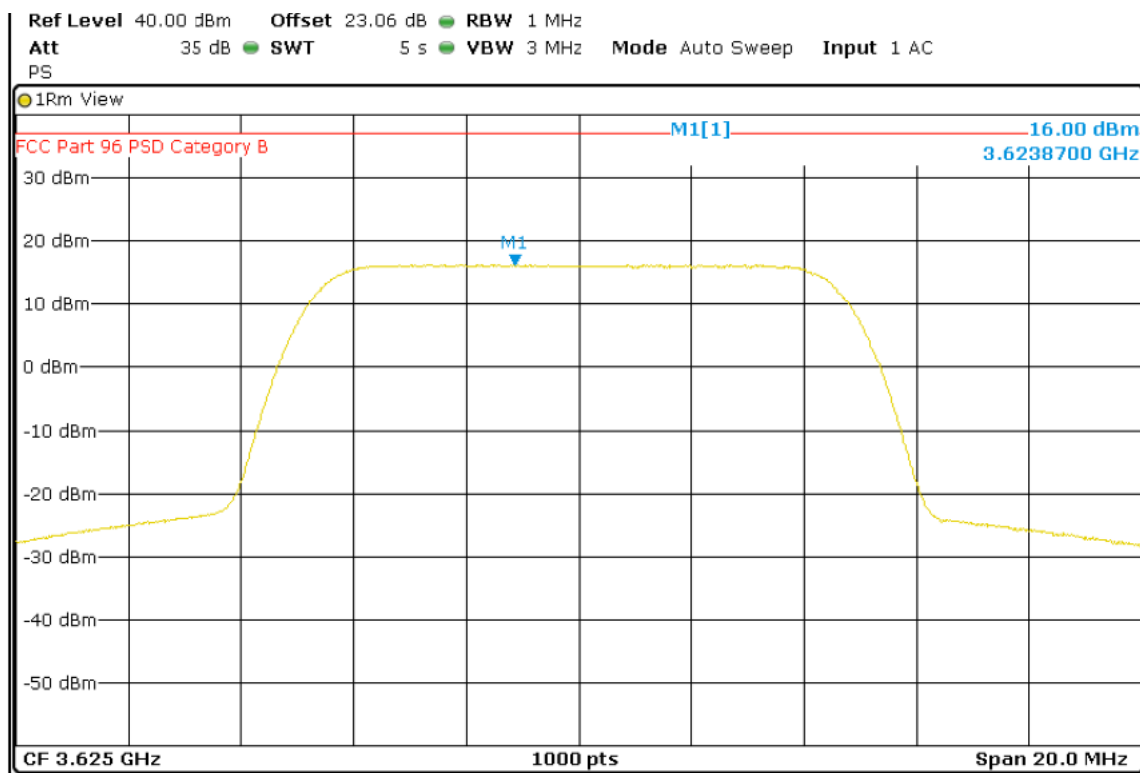


Port 2

Lowest Channel (3555 MHz)



Middle Channel (3625 MHz)



Highest Channel (3695 MHz)

