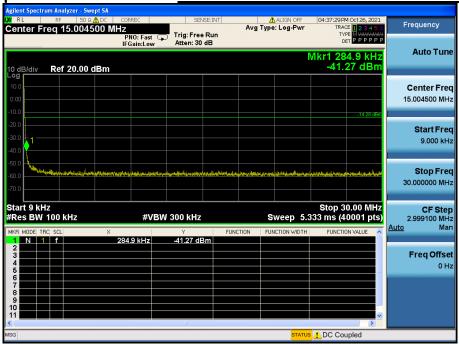


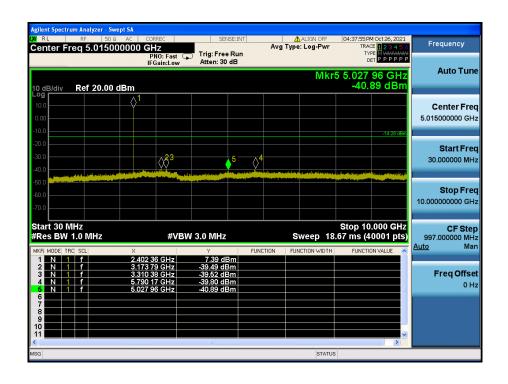
FCC ID: V2X-PM75W

IC: 10664A-PM75W

TD Dt&C Report No.: DRTFCC2111-0143(1)

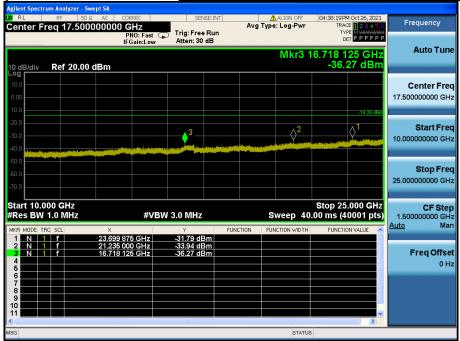
Lowest Channel & Modulation : π/4DQPSK **Conducted Spurious Emissions**







Conducted Spurious Emissions <u>Lowest Channel & Modulation : π/4DQPSK</u>





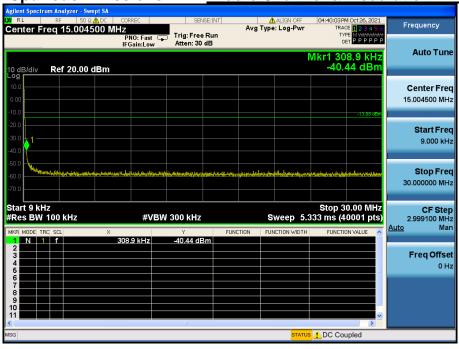


Reference for limit

Middle Channel & Modulation : π/4DQPSK



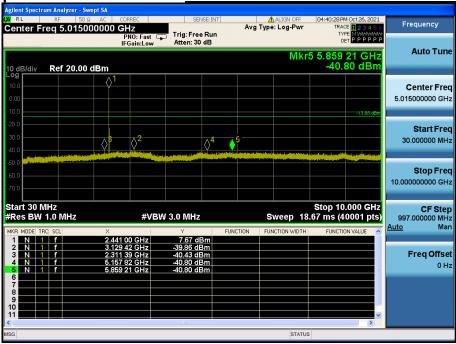
Conducted Spurious Emissions <u>Middle Channel & Modulation : π/4DQPSK</u>

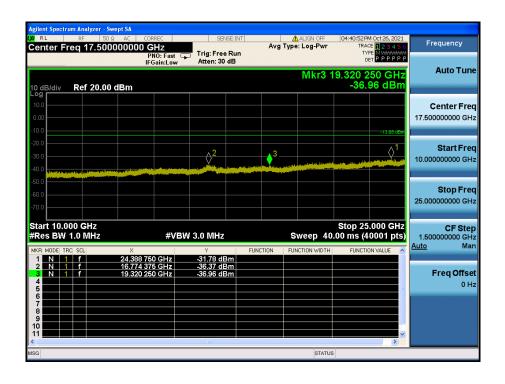






Conducted Spurious Emissions Middle Channel & Modulation : π/4DQPSK

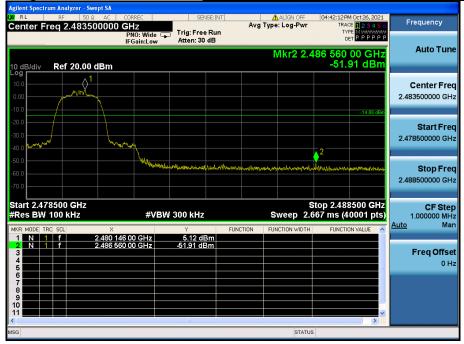






TDt&C

High Band-edge <u>Highest Channel & Modulation : π/4DQPSK</u>



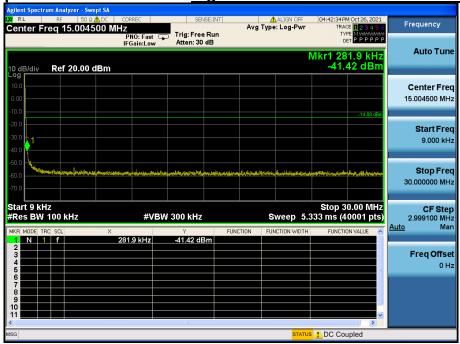
High Band-edge <u>Hopping mode & Modulation : π/4DQPSK</u>

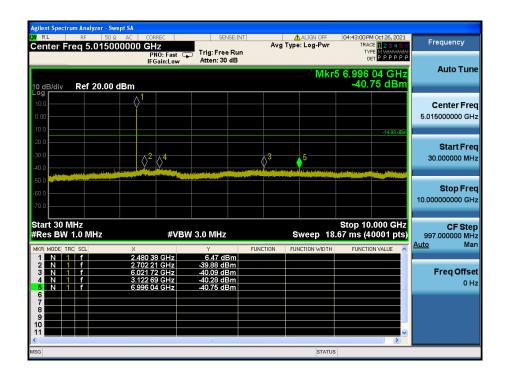






Conducted Spurious Emissions Highest Channel & Modulation : π/4DQPSK





FCC ID: V2X-PM75W

Report No.: DRTFCC2111-0143(1) IC: 10664A-PM75W

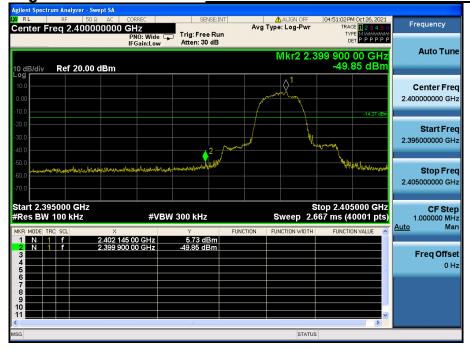
Conducted Spurious Emissions Highest Channel & Modulation : π/4DQPSK





TDt&C

Low Band-edge Lowest Channel & Modulation : 8DPSK

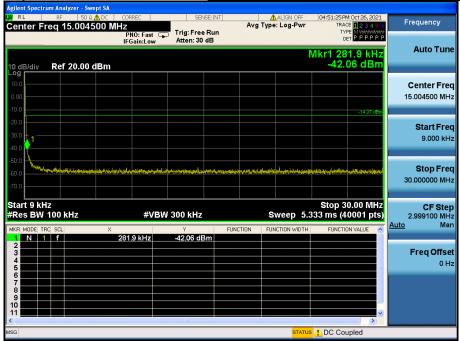


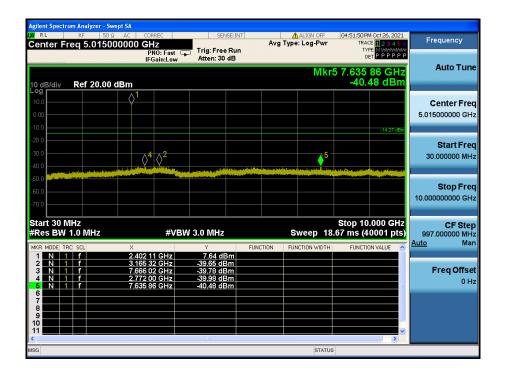
Low Band-edge <u>Hopping mode & Modulation : 8DPSK</u>



TDt&C

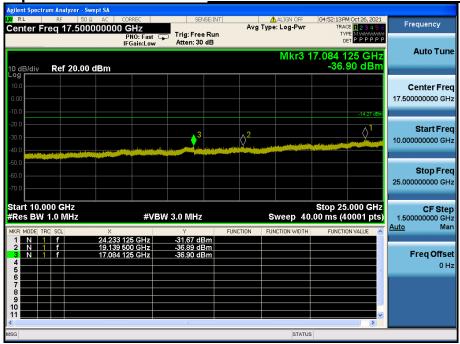
Conducted Spurious Emissions <u>Lowest Channel & Modulation : 8DPSK</u>





TDt&C

Conducted Spurious Emissions <u>Lowest Channel & Modulation : 8DPSK</u>





FCC ID: V2X-PM75W

Report No.: DRTFCC2111-0143(1) IC: 10664A-PM75W

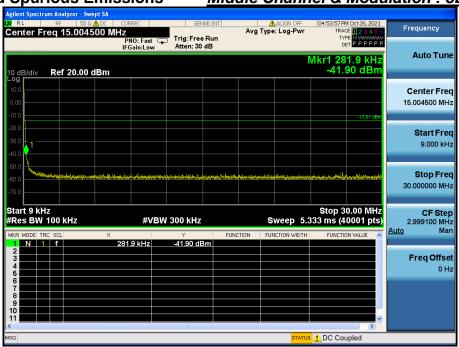
TDt&C

Reference for limit

Middle Channel & Modulation: 8DPSK

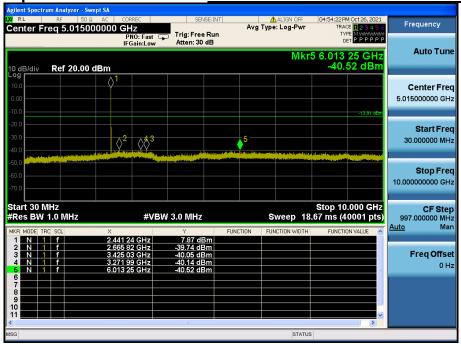


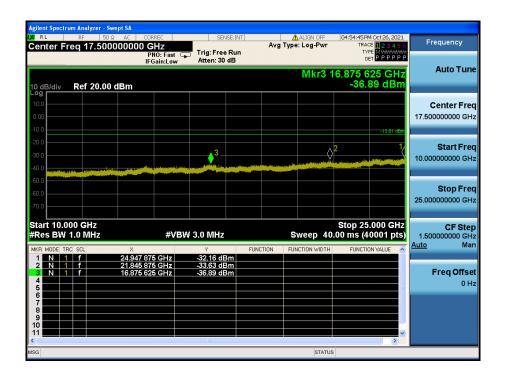
Middle Channel & Modulation: 8DPSK **Conducted Spurious Emissions**





Conducted Spurious Emissions <u>Middle Channel & Modulation : 8DPSK</u>

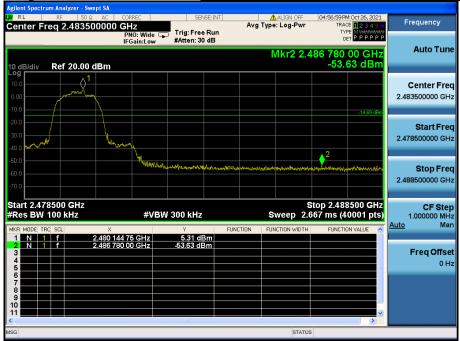








High Band-edge <u>Highest Channel & Modulation : 8DPSK</u>

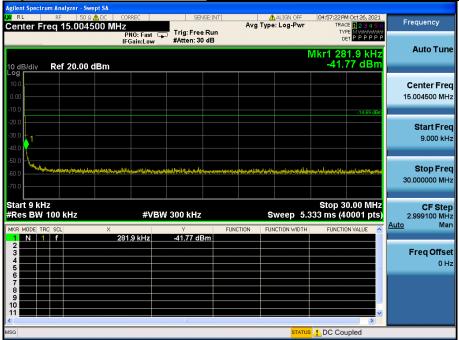


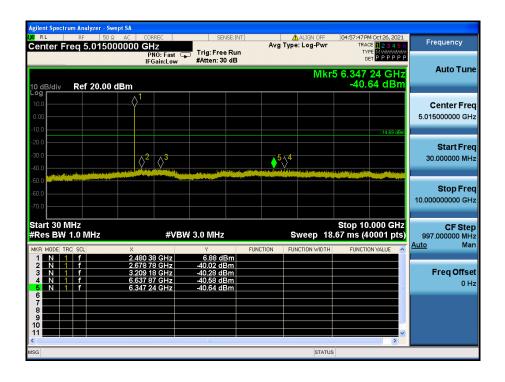
High Band-edge <u>Hopping mode & Modulation : 8DPSK</u>





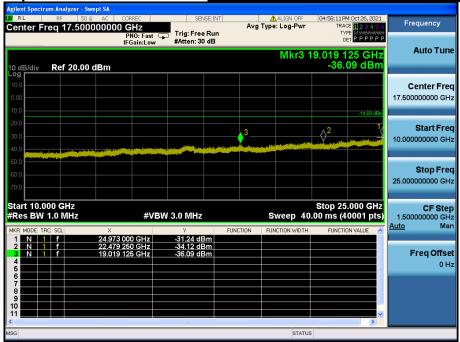
Conducted Spurious Emissions <u>Highest Channel & Modulation : 8DPSK</u>





TDt&C

Conducted Spurious Emissions <u>Highest Channel & Modulation : 8DPSK</u>



Report No.: DRTFCC2111-0143(1)

FCC ID: **V2X-PM75W**IC: **10664A-PM75W**

10. AC Power-Line Conducted Emissions

10.1. Test Setup

See test photographs for the actual connections between EUT and support equipment.

10.2. Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)		
	Quasi-Peak	Average	
0.15 ~ 0.50	66 to 56 *	56 to 46 *	
0.5 ~ 5.0	56	46	
5 ~ 30	60	50	

^{*} Decreases with the logarithm of the frequency

10.3. Test Procedure

Conducted emissions from the EUT were measured according to the ANSI C63.10.

- 1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.



FCC ID: V2X-PM75W

Frequency[Hz]

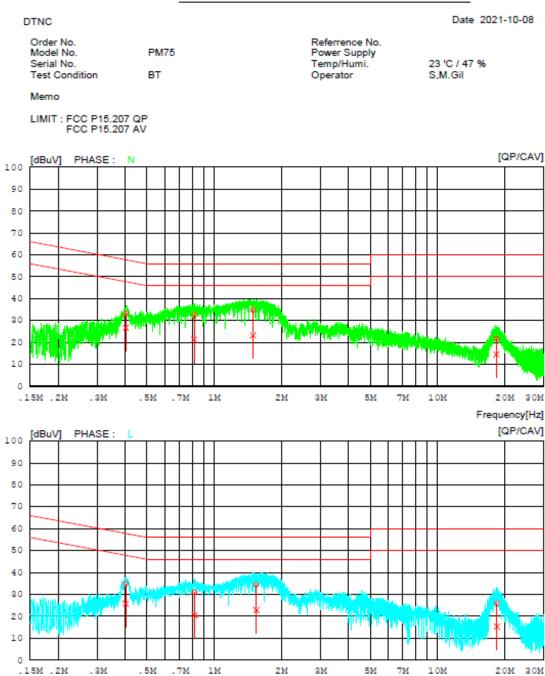
Pages: 73 / 80

IC: 10664A-PM75W

10.4. Test Results

AC Power-Line Conducted Emissions (Graph) = Modulation : 8DPSK

Results of Conducted Emission





Report No.: DRTFCC2111-0143(1)

FCC ID: **V2X-PM75W**IC: **10664A-PM75W**

AC Power-Line Conducted Emissions (List) = Modulation : 8DPSK

Results of Conducted Emission

DTNC Date 2021-10-08

 Order No.
 Reference No.

 Model No.
 PM75
 Power Supply

 Serial No.
 Temp/Humi.
 23 'C / 47 %

 Test Condition
 BT
 Operator
 S,M.Gil

Memo

LIMIT : FCC P15.207 QP FCC P15.207 AV

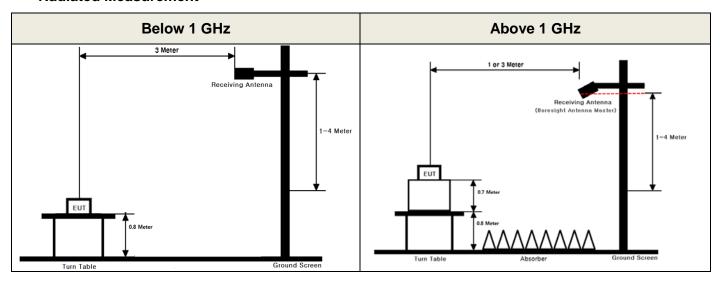
NO FREQ READING C.FACTOR RESULT LIMIT MARGIN PHASE QP CAV QP CAV QP CAV QP CAV [dBuV][dBuV] [dBuV][dBuV] [dBuV][dBuV] [dBuV][dBuV] [dB] [MHz] 0.40189 23.30 16.83 9.91 33.2126.74 57.81 47.81 24.6021.07 0.81348 22.69 11.35 9.92 32.6121.27 56.00 46.00 23.3924.73 2 Ν 1.49109 24.80 13.27 10.05 34.85 23.32 56.00 46.00 21.15 22.68 Ν 18.38414 11.26 4.18 10.43 21.69 14.61 60.00 50.00 38.3135.39 Ν 0.40129 24.93 15.88 34.8425.79 57.83 47.83 22.9922.04 9.91 L 0.81646 20.97 10.57 9.92 30.8920.49 56.00 46.00 25.1125.51 L 1.54417 24.35 12.77 10.06 34.41 22.83 56.00 46.00 21.59 23.17 8 18.50113 15.40 4.88 10.44 25.8415.32 60.00 50.00 34.1634.68



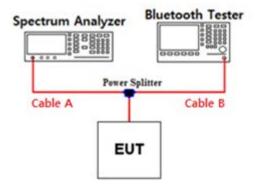
APPENDIX I

Test set up diagrams

Radiated Measurement



Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)
0.03	6.61	15	6.92
1	6.67	20	7.10
2.402 & 2.441 & 2.480	6.71	25	7.58
5	6.69	-	-
10	6.91	-	-

Note 1: The path loss from EUT to Spectrum analyzer was measured and used for test. Path loss (S/A's correction factor) = Cable A + Power Splitter



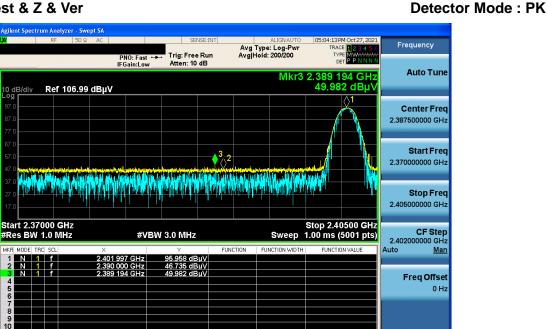
Detector Mode: PK



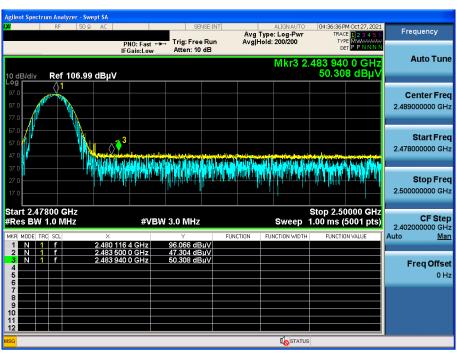
APPENDIX II

Unwanted Emissions (Radiated) Test Plot

GFSK & Lowest & Z & Ver



GFSK & Highest & Z & Ver

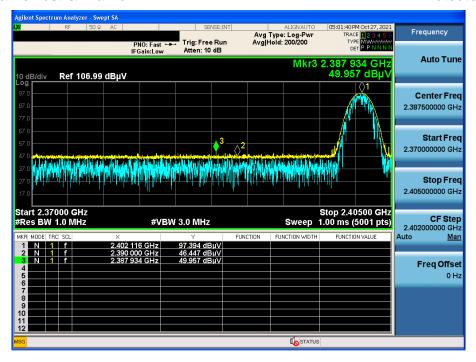


TRF-RF-237(07)210316 Pages: 76 / 80

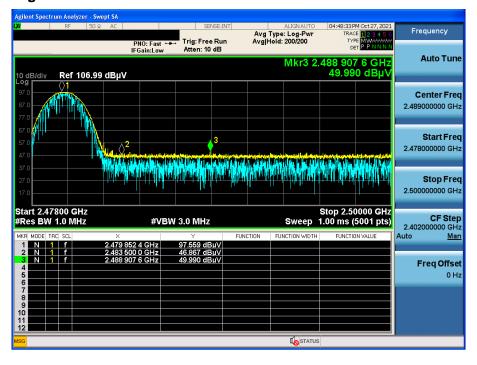


$\pi/4DQPSK \& Lowest \& Z \& Ver$

Detector Mode: PK



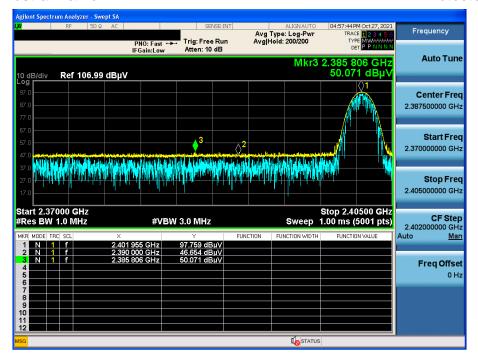
π/4DQPSK & Highest & Z & Ver



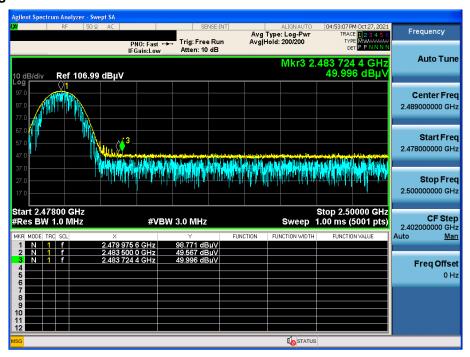


8DPSK & Lowest & Z & Ver

Detector Mode: PK



8DPSK & Highest & Z & Ver

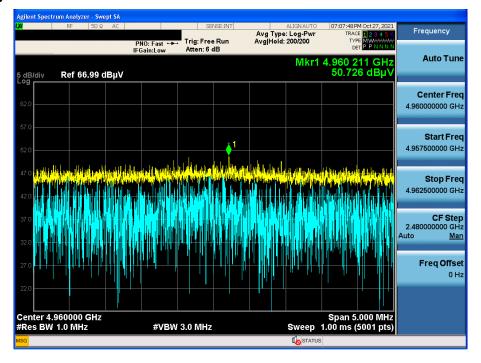




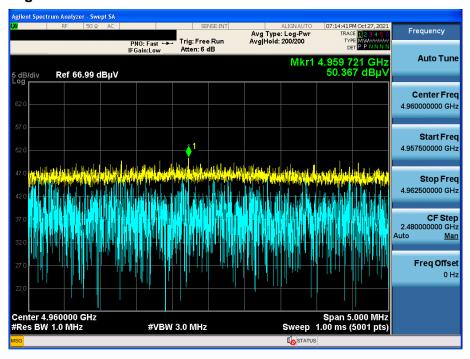


GFSK & Highest & Z & Hor

Detector Mode: PK



$\pi/4DQPSK$ & Highest & Z & Hor





IC: 10664A-PM75W



8DPSK & Lowest & Z & Hor

