



11AX20MIMO_Ant2_5785



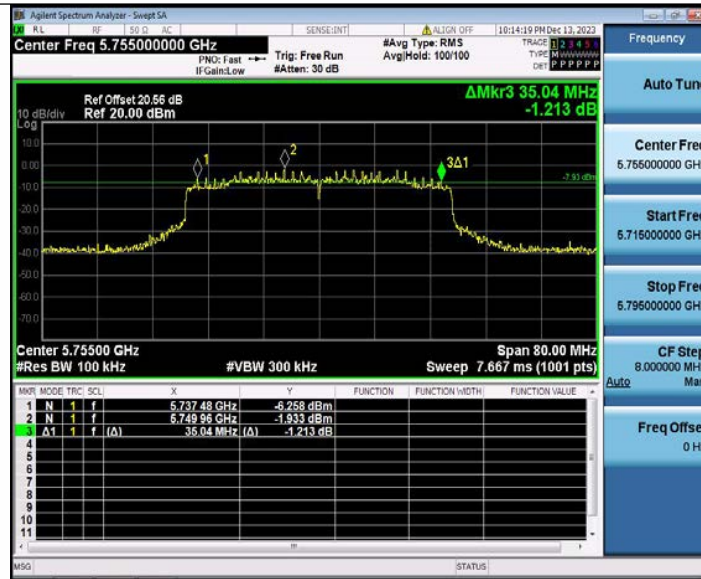
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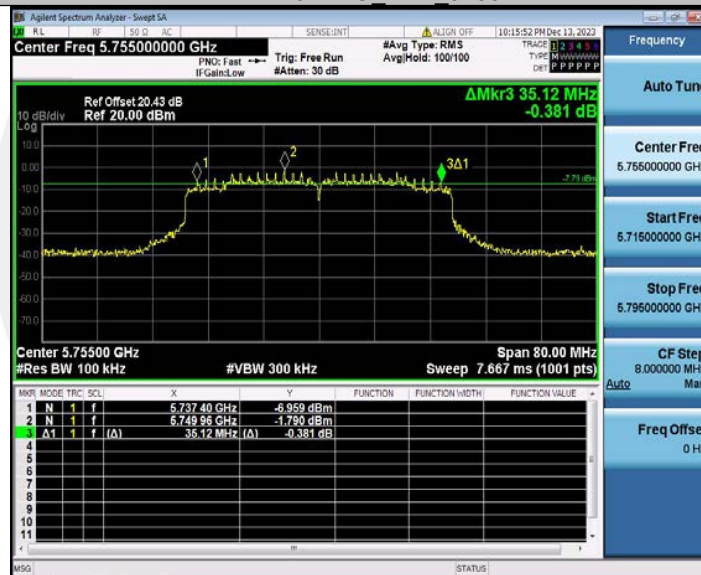
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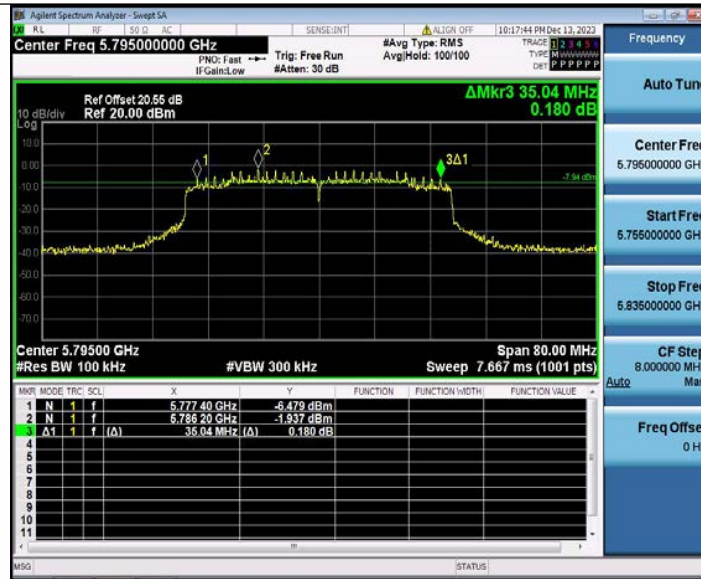
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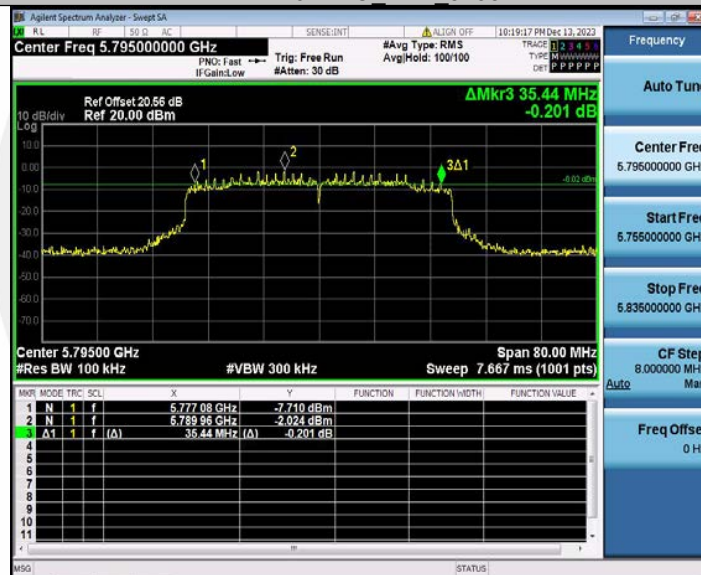
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11AX40MIMO_Ant1_5795



11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5775



8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)
According to RSS 247, 6.2

8.2.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz

(a)(1) (i) For an outdoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

IC Limit:

■ Frequency band 5150-5250 MHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

■ Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

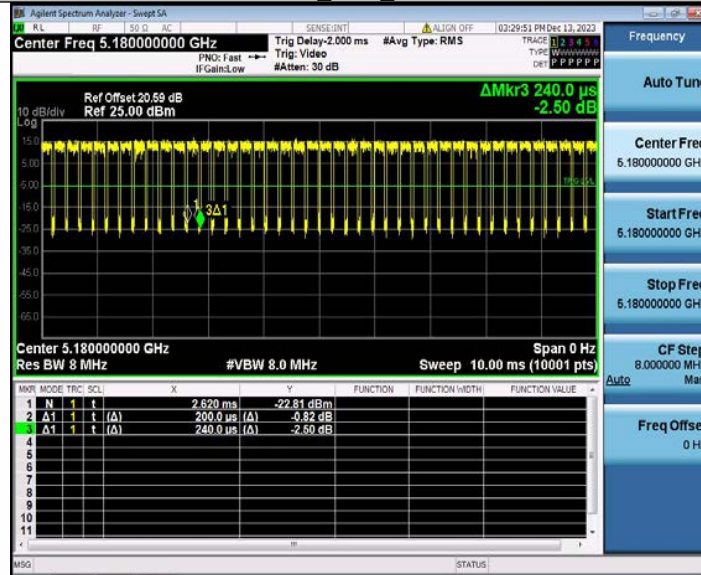
Note: N/A

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.20	0.24	83.33
	Ant2	5180	0.20	0.24	83.33
	Ant1	5200	0.19	0.24	79.17
	Ant2	5200	0.19	0.24	79.17
	Ant1	5240	0.20	0.24	83.33
	Ant2	5240	0.19	0.24	79.17
	Ant1	5260	0.20	0.25	80.00
	Ant2	5260	0.19	0.24	79.17
	Ant1	5280	0.20	0.24	83.33
	Ant2	5280	0.19	0.24	79.17
	Ant1	5320	0.19	0.24	79.17
	Ant2	5320	0.19	0.24	79.17
	Ant1	5500	0.19	0.24	79.17
	Ant2	5500	0.19	0.24	79.17
	Ant1	5580	0.19	0.24	79.17
	Ant2	5580	0.19	0.24	79.17
	Ant1	5700	0.19	0.24	79.17
	Ant2	5700	0.19	0.24	79.17
	Ant1	5745	0.19	0.24	79.17
	Ant2	5745	0.19	0.24	79.17
	Ant1	5785	0.19	0.24	79.17
	Ant2	5785	0.19	0.24	79.17
	Ant1	5825	0.19	0.24	79.17
	Ant2	5825	0.19	0.24	79.17
11N20MIMO	Ant1	5180	0.35	0.40	87.50
	Ant2	5180	0.35	0.40	87.50
	Ant1	5200	0.35	0.40	87.50
	Ant2	5200	0.35	0.40	87.50
	Ant1	5240	0.35	0.40	87.50
	Ant2	5240	0.36	0.41	87.80
	Ant1	5260	0.35	0.40	87.50
	Ant2	5260	0.35	0.40	87.50
	Ant1	5280	0.35	0.40	87.50
	Ant2	5280	0.35	0.40	87.50
	Ant1	5320	0.35	0.40	87.50
	Ant2	5320	0.36	0.41	87.80
	Ant1	5500	0.35	0.40	87.50
	Ant2	5500	0.35	0.40	87.50
	Ant1	5580	0.35	0.40	87.50
	Ant2	5580	0.35	0.40	87.50
	Ant1	5700	0.35	0.40	87.50
	Ant2	5700	0.35	0.40	87.50
	Ant1	5745	0.36	0.40	90.00
	Ant2	5745	0.35	0.40	87.50
	Ant1	5785	0.35	0.40	87.50
	Ant2	5785	0.35	0.40	87.50
	Ant1	5825	0.35	0.40	87.50
	Ant2	5825	0.35	0.40	87.50
11N40MIMO	Ant1	5190	0.34	0.40	85.00
	Ant2	5190	0.34	0.39	87.18
	Ant1	5230	0.34	0.39	87.18
	Ant2	5230	0.34	0.39	87.18
	Ant1	5270	0.34	0.39	87.18
	Ant2	5270	0.34	0.39	87.18
	Ant1	5310	0.34	0.40	85.00
	Ant2	5310	0.34	0.40	85.00
	Ant1	5510	0.34	0.40	85.00
	Ant2	5510	0.34	0.39	87.18

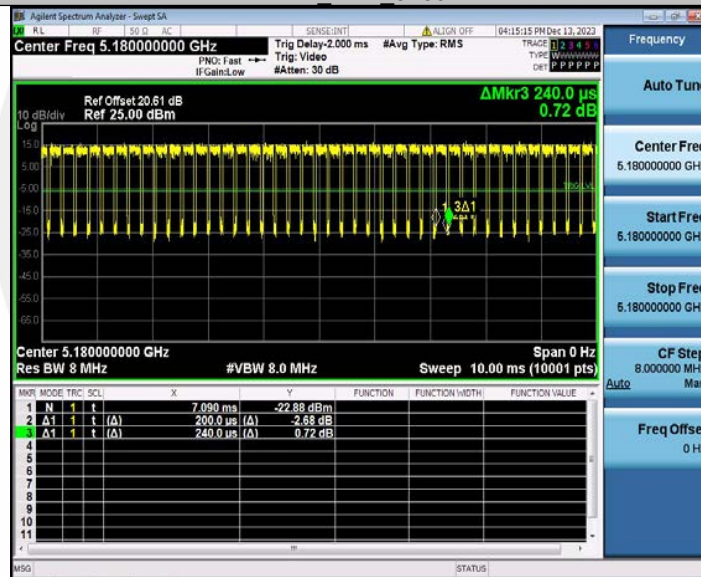
	Ant1	5550	0.34	0.39	87.18
	Ant2	5550	0.34	0.39	87.18
	Ant1	5670	0.34	0.38	89.47
	Ant2	5670	0.34	0.39	87.18
	Ant1	5755	0.34	0.39	87.18
	Ant2	5755	0.34	0.39	87.18
	Ant1	5795	0.34	0.39	87.18
	Ant2	5795	0.34	0.39	87.18
11AC20MIMO	Ant1	5180	0.32	0.37	86.49
	Ant2	5180	0.32	0.36	88.89
	Ant1	5200	0.32	0.37	86.49
	Ant2	5200	0.32	0.37	86.49
	Ant1	5240	0.32	0.37	86.49
	Ant2	5240	0.32	0.37	86.49
	Ant1	5260	0.32	0.37	86.49
	Ant2	5260	0.32	0.37	86.49
	Ant1	5280	0.32	0.37	86.49
	Ant2	5280	0.32	0.37	86.49
	Ant1	5320	0.32	0.37	86.49
	Ant2	5320	0.32	0.37	86.49
	Ant1	5500	0.32	0.37	86.49
	Ant2	5500	0.32	0.37	86.49
	Ant1	5580	0.32	0.37	86.49
	Ant2	5580	0.32	0.37	86.49
	Ant1	5700	0.32	0.37	86.49
	Ant2	5700	0.32	0.36	88.89
	Ant1	5745	0.32	0.37	86.49
	Ant2	5745	0.32	0.37	86.49
	Ant1	5785	0.32	0.36	88.89
	Ant2	5785	0.32	0.37	86.49
	Ant1	5825	0.32	0.37	86.49
	Ant2	5825	0.32	0.37	86.49
11AC40MIMO	Ant1	5190	0.30	0.36	83.33
	Ant2	5190	0.30	0.35	85.71
	Ant1	5230	0.30	0.35	85.71
	Ant2	5230	0.30	0.35	85.71
	Ant1	5270	0.30	0.35	85.71
	Ant2	5270	0.30	0.35	85.71
	Ant1	5310	0.30	0.35	85.71
	Ant2	5310	0.30	0.35	85.71
	Ant1	5510	0.30	0.35	85.71
	Ant2	5510	0.30	0.35	85.71
	Ant1	5550	0.30	0.34	88.24
	Ant2	5550	0.30	0.35	85.71
	Ant1	5670	0.30	0.35	85.71
	Ant2	5670	0.30	0.35	85.71
	Ant1	5755	0.30	0.35	85.71
	Ant2	5755	0.30	0.35	85.71
	Ant1	5795	0.30	0.35	85.71
	Ant2	5795	0.30	0.35	85.71
11AC80MIMO	Ant1	5210	0.29	0.34	85.29
	Ant2	5210	0.28	0.34	82.35
	Ant1	5290	0.29	0.34	85.29
	Ant2	5290	0.29	0.34	85.29
	Ant1	5530	0.29	0.34	85.29
	Ant2	5530	0.29	0.34	85.29
	Ant1	5610	0.28	0.33	84.85
	Ant2	5610	0.29	0.34	85.29
	Ant1	5775	0.29	0.34	85.29
	Ant2	5775	0.29	0.34	85.29
11AC160MIMO	Ant1	5250	0.29	0.34	85.29

	Ant2	5250	0.28	0.33	84.85
	Ant1	5570	0.28	0.33	84.85
	Ant2	5570	0.29	0.34	85.29
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	Ant2	5180	0.47	0.52	90.38
	Ant1	5200	0.47	0.52	90.38
	Ant2	5200	0.47	0.52	90.38
	Ant1	5240	0.47	0.52	90.38
	Ant2	5240	0.48	0.53	90.57
	Ant1	5260	0.48	0.53	90.57
	Ant2	5260	0.48	0.53	90.57
	Ant1	5280	0.48	0.53	90.57
	Ant2	5280	0.48	0.53	90.57
	Ant1	5320	0.48	0.53	90.57
	Ant2	5320	0.48	0.53	90.57
	Ant1	5500	0.48	0.53	90.57
	Ant2	5500	0.47	0.52	90.38
	Ant1	5580	0.47	0.52	90.38
	Ant2	5580	0.47	0.52	90.38
	Ant1	5700	0.47	0.52	90.38
	Ant2	5700	0.47	0.52	90.38
	Ant1	5745	0.47	0.52	90.38
	Ant2	5745	0.47	0.52	90.38
	Ant1	5785	0.47	0.52	90.38
	Ant2	5785	0.47	0.52	90.38
	Ant1	5825	0.48	0.53	90.57
	Ant2	5825	0.47	0.52	90.38
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	Ant2	5190	0.30	0.35	85.71
	Ant1	5230	0.30	0.35	85.71
	Ant2	5230	0.30	0.35	85.71
	Ant1	5270	0.30	0.34	88.24
	Ant2	5270	0.30	0.35	85.71
	Ant1	5310	0.30	0.35	85.71
	Ant2	5310	0.30	0.35	85.71
	Ant1	5510	0.30	0.36	83.33
	Ant2	5510	0.30	0.35	85.71
	Ant1	5550	0.30	0.35	85.71
	Ant2	5550	0.29	0.34	85.29
	Ant1	5670	0.30	0.35	85.71
	Ant2	5670	0.30	0.35	85.71
	Ant1	5755	0.30	0.35	85.71
	Ant2	5755	0.30	0.35	85.71
	Ant1	5795	0.30	0.35	85.71
	Ant2	5795	0.30	0.35	85.71
11AX80MIMO	Ant1	5210	0.29	0.34	85.29
	Ant2	5210	0.29	0.34	85.29
	Ant1	5290	0.30	0.35	85.71
	Ant2	5290	0.30	0.35	85.71
	Ant1	5530	0.30	0.36	83.33
	Ant2	5530	0.30	0.35	85.71
	Ant1	5610	0.29	0.34	85.29
	Ant2	5610	0.30	0.35	85.71
	Ant1	5775	0.30	0.35	85.71
	Ant2	5775	0.30	0.35	85.71
11AX160MIMO	Ant1	5250	0.30	0.35	85.71
	Ant2	5250	0.30	0.36	83.33
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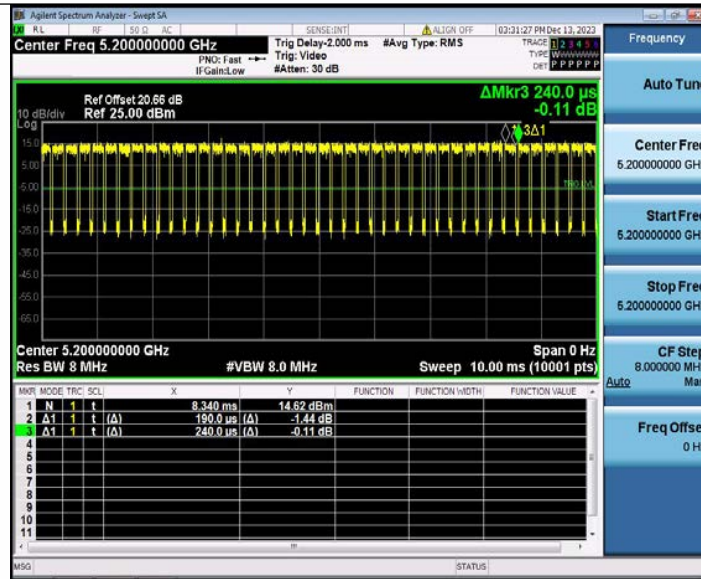
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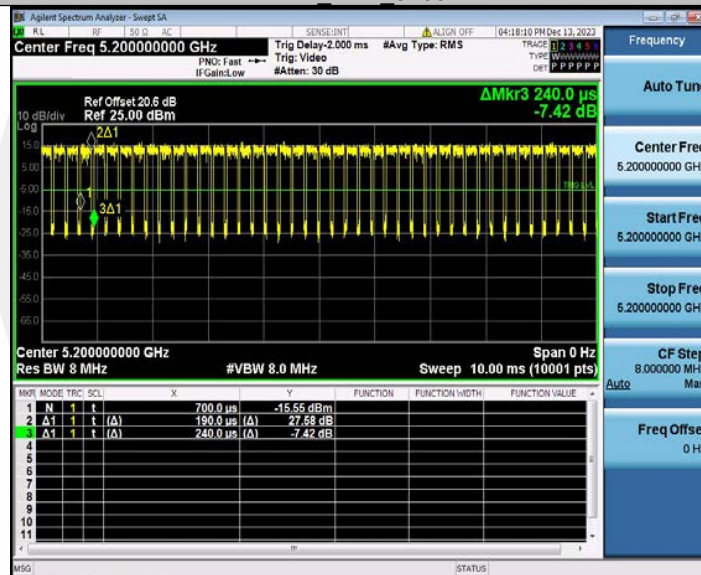
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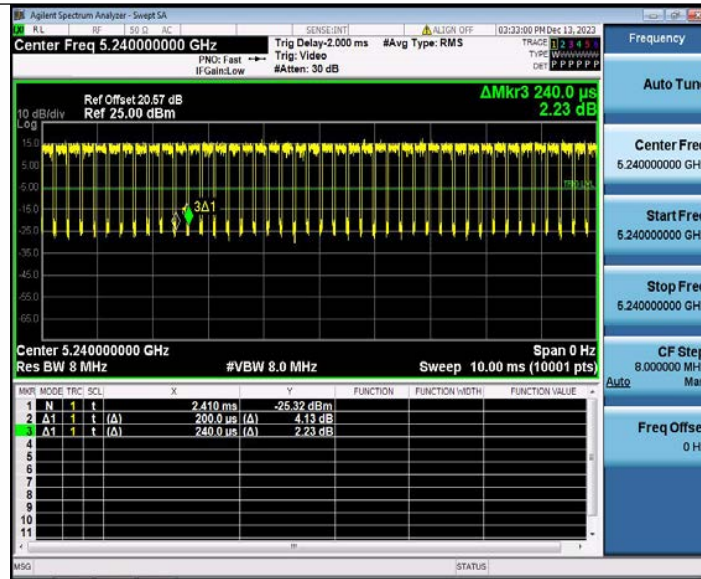
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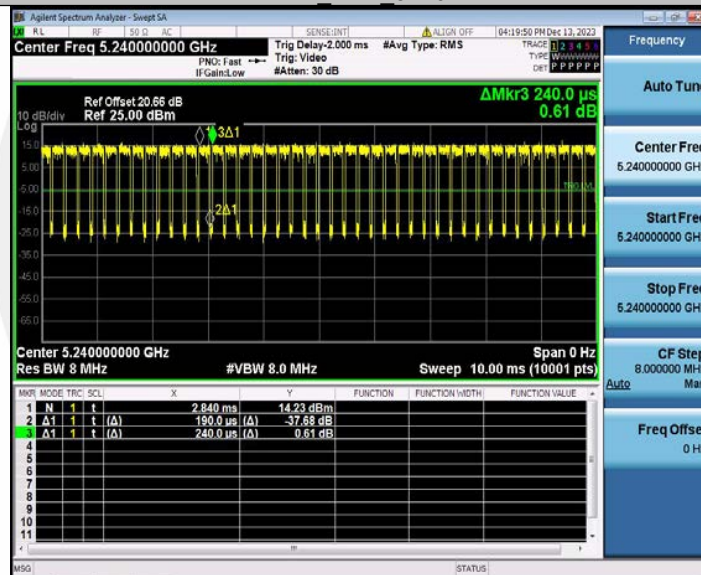
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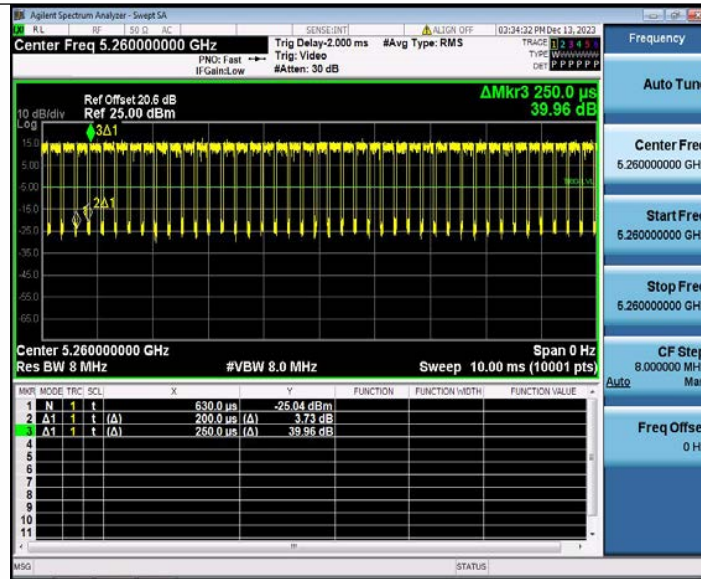
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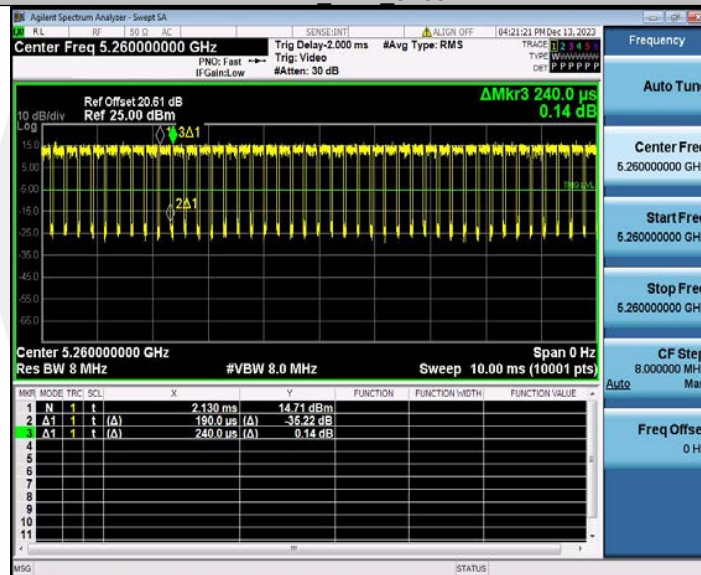
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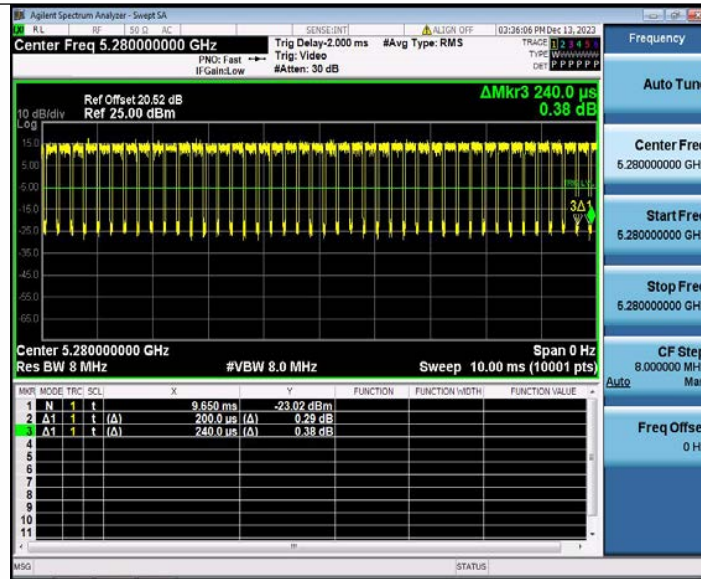
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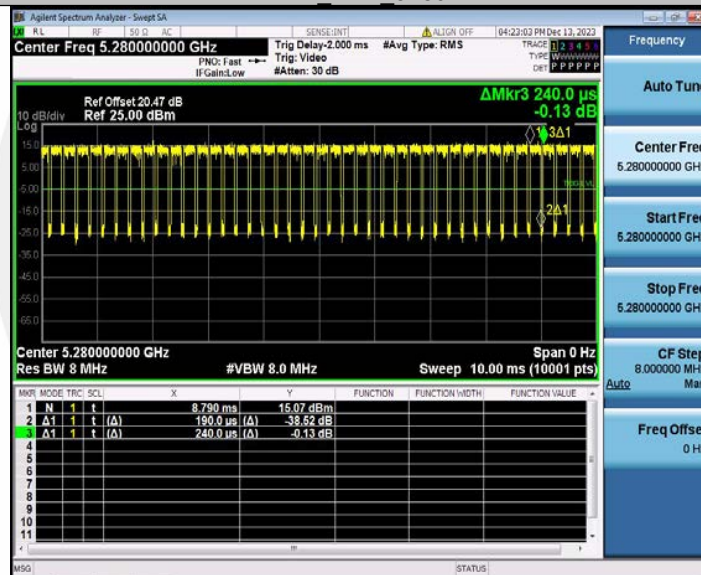
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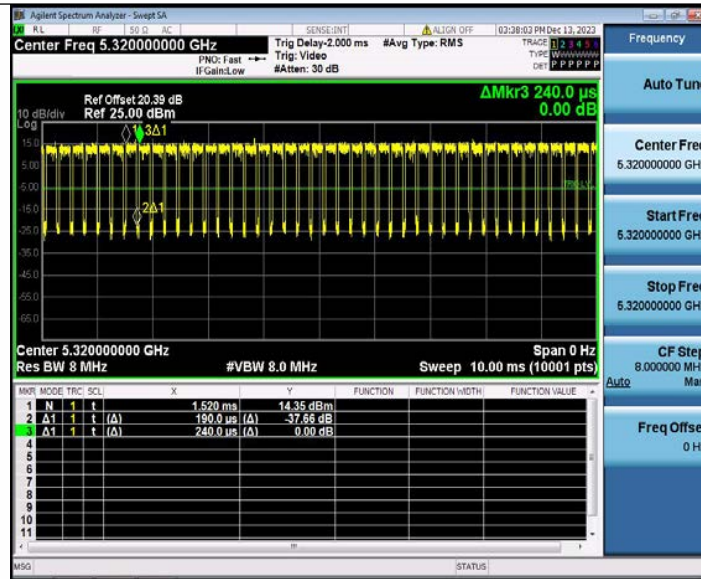
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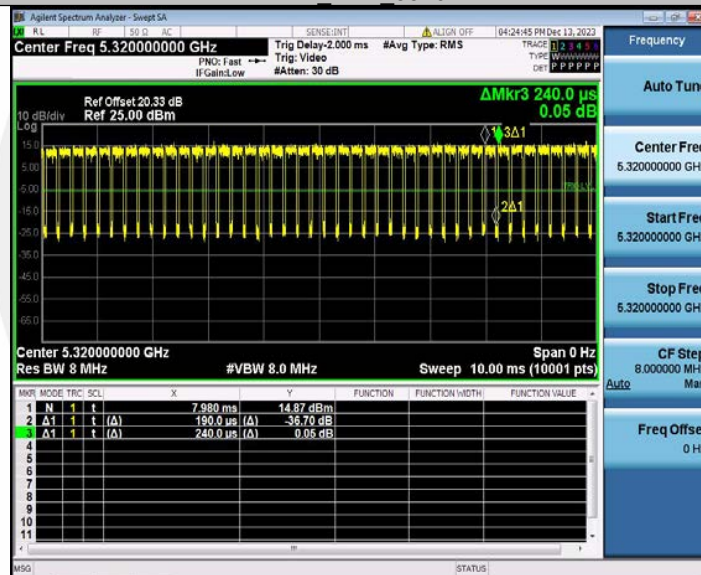
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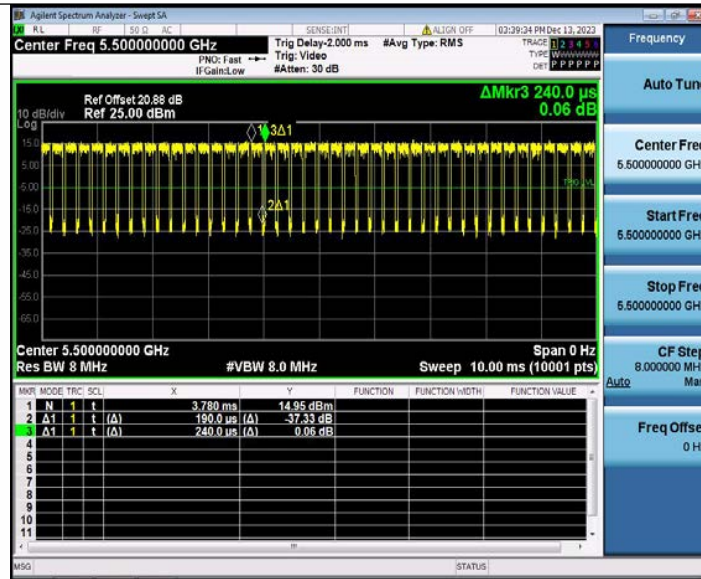
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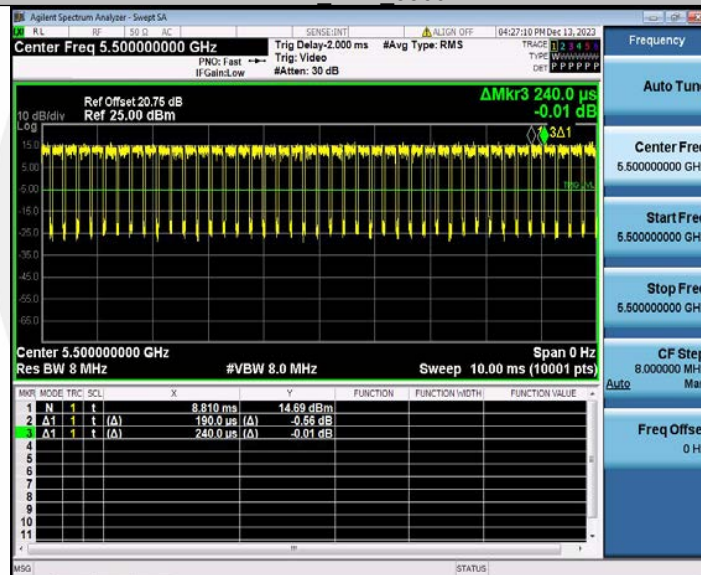
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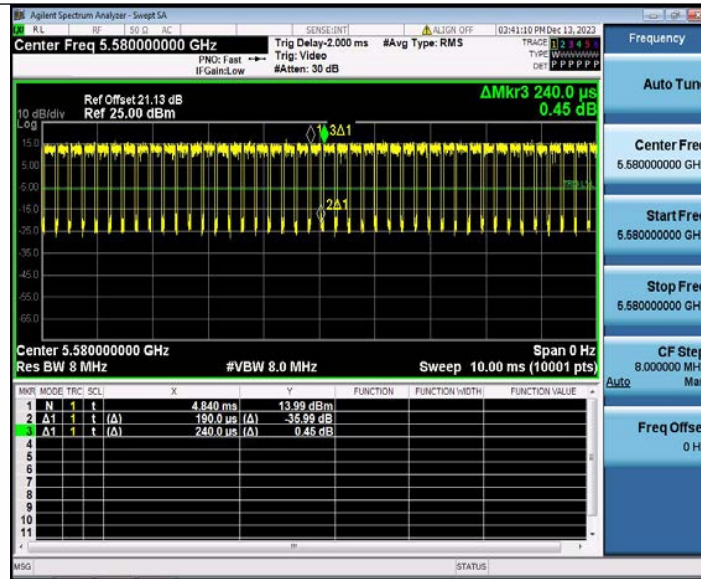
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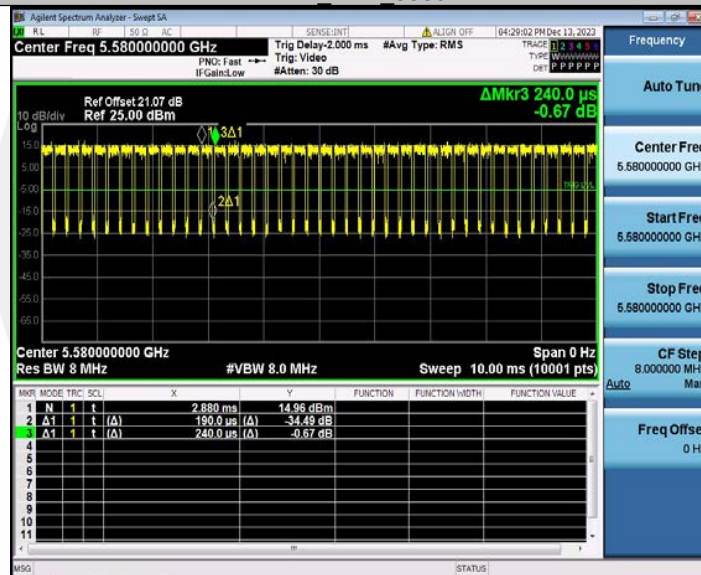
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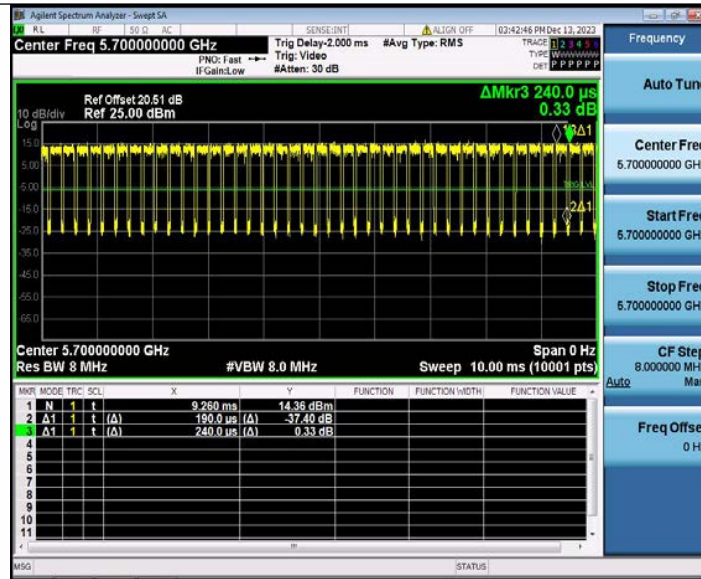
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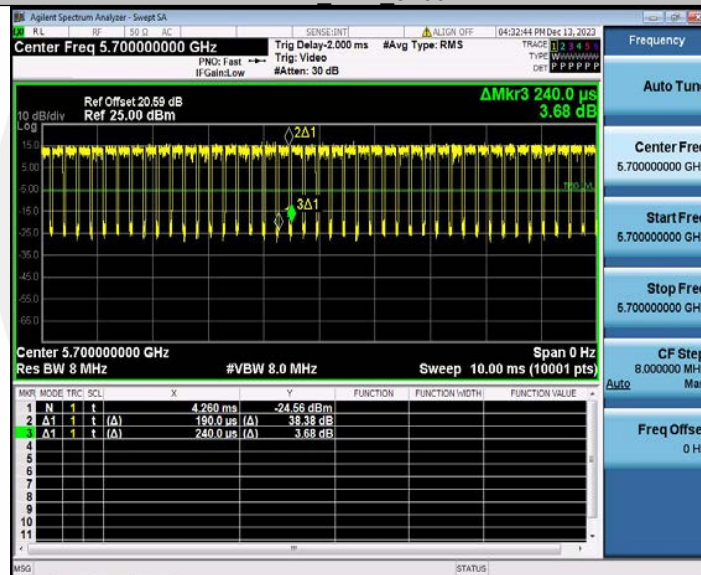
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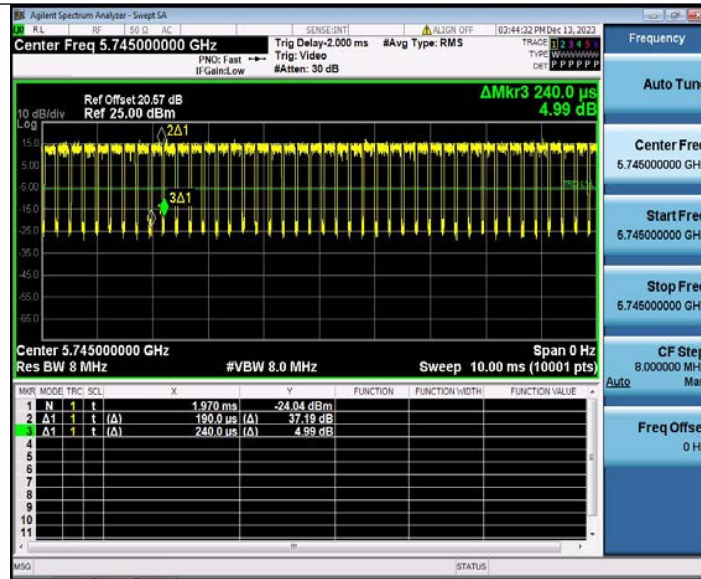
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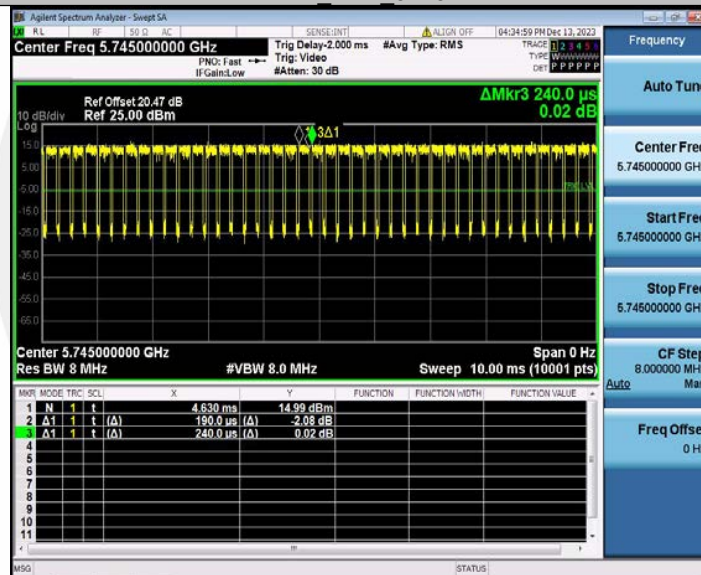
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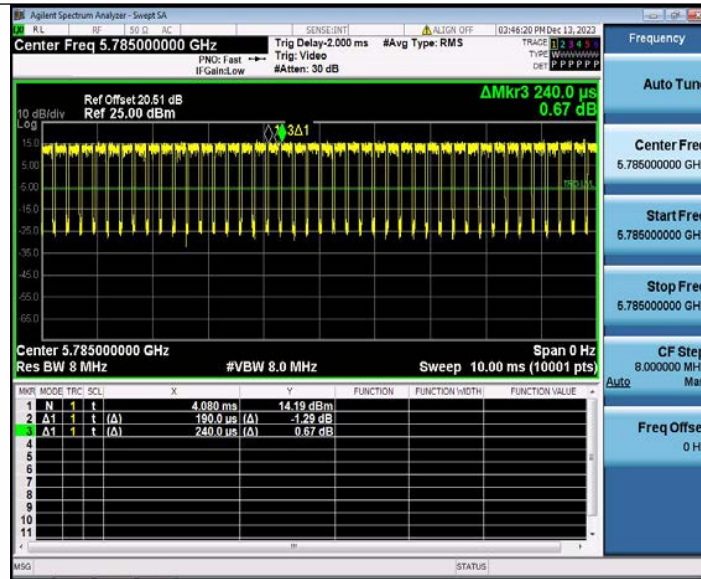
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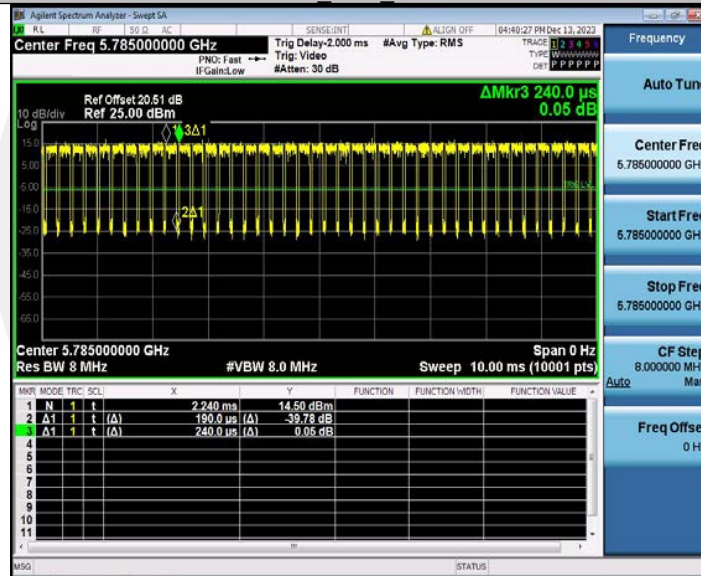
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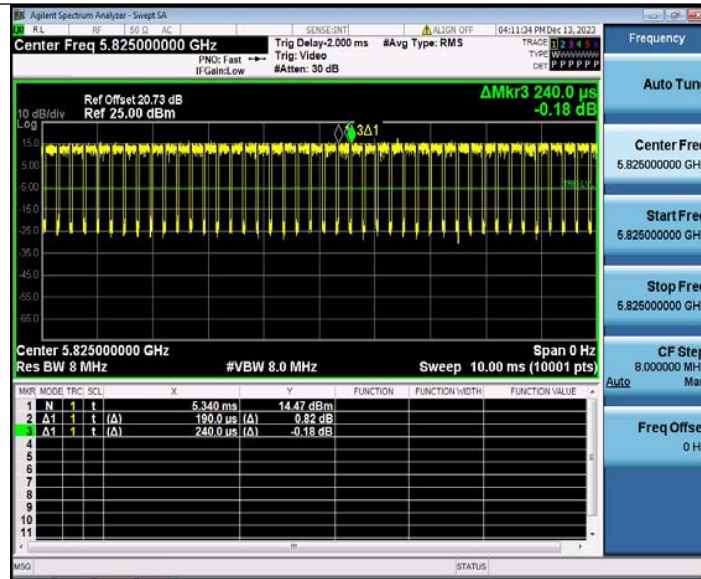
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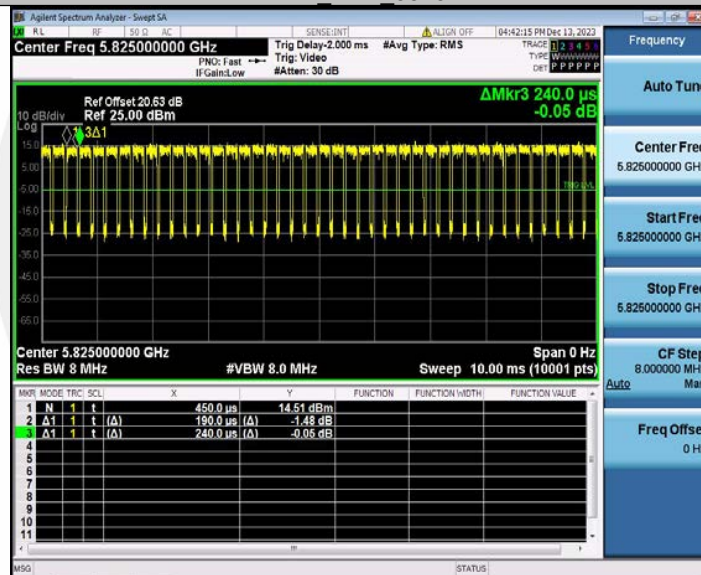
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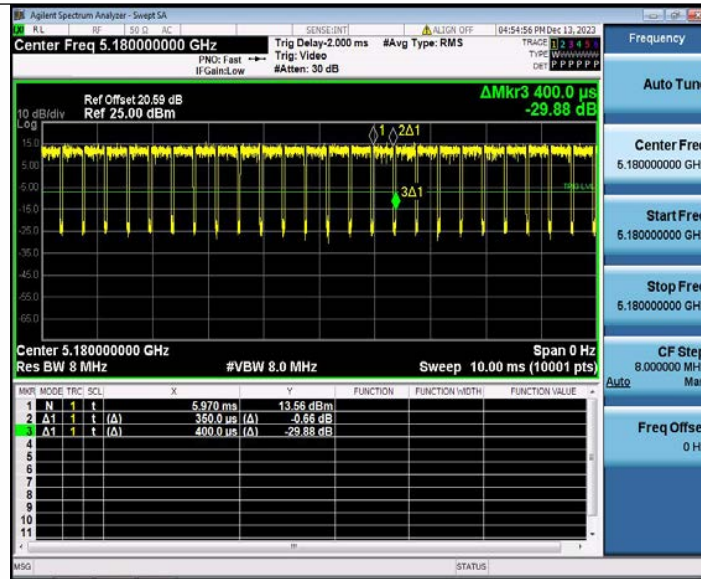
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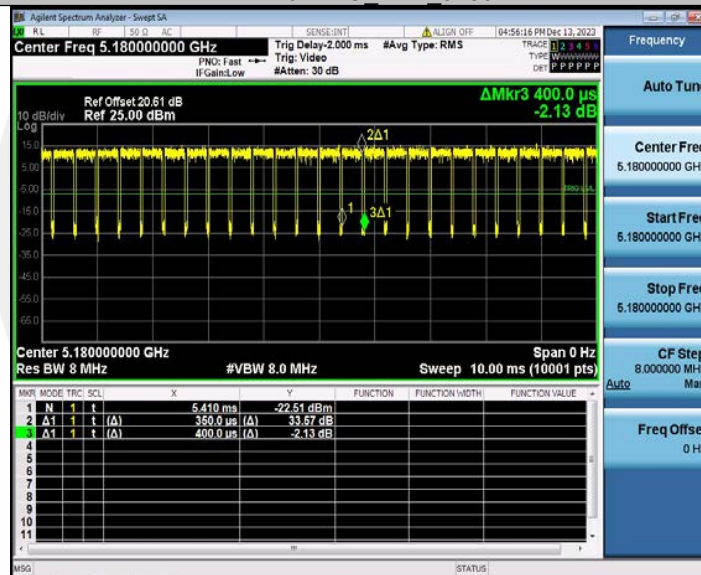
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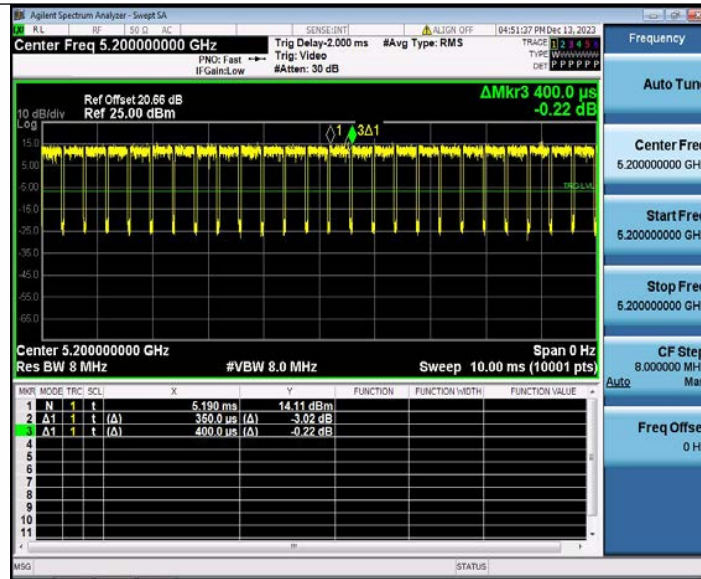
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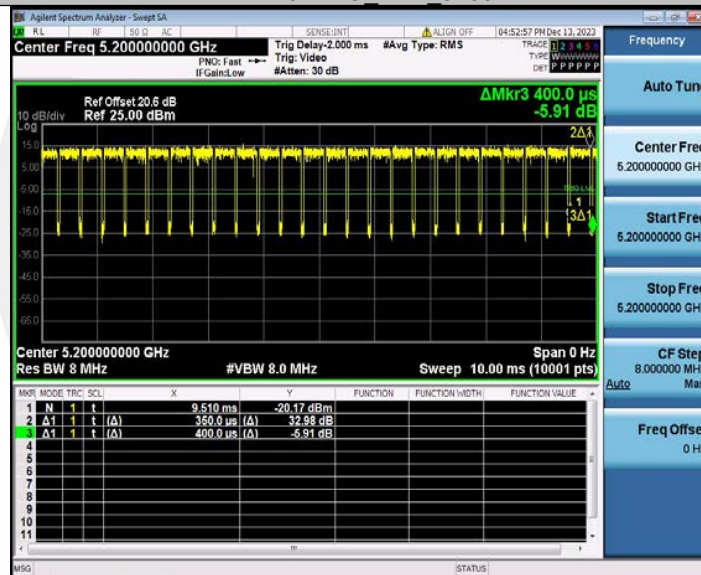
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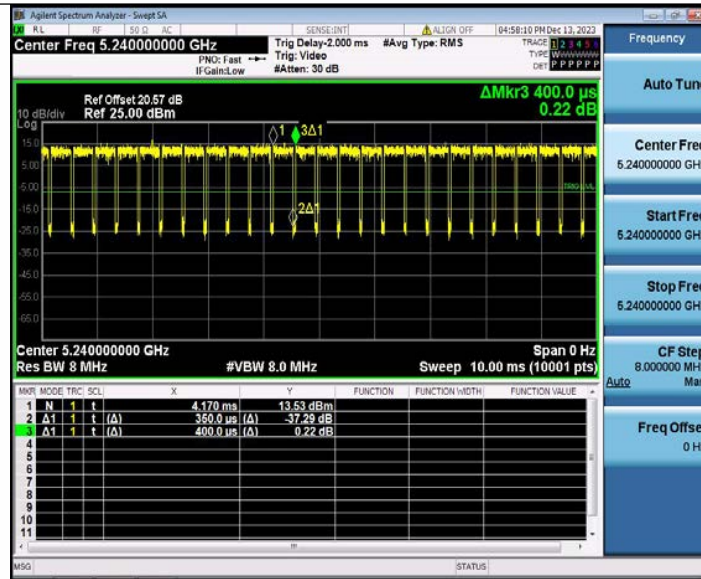
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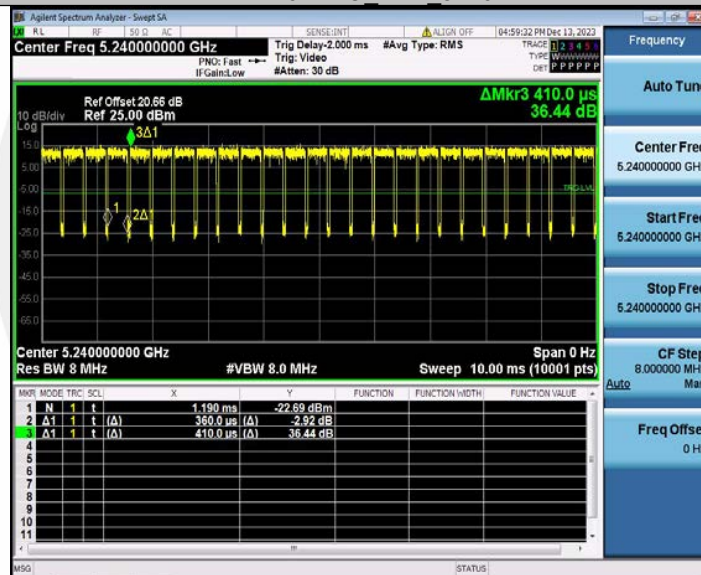
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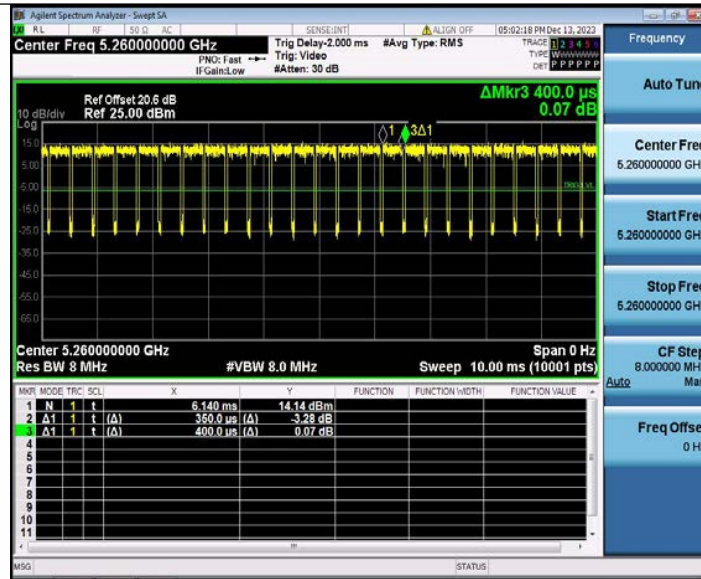
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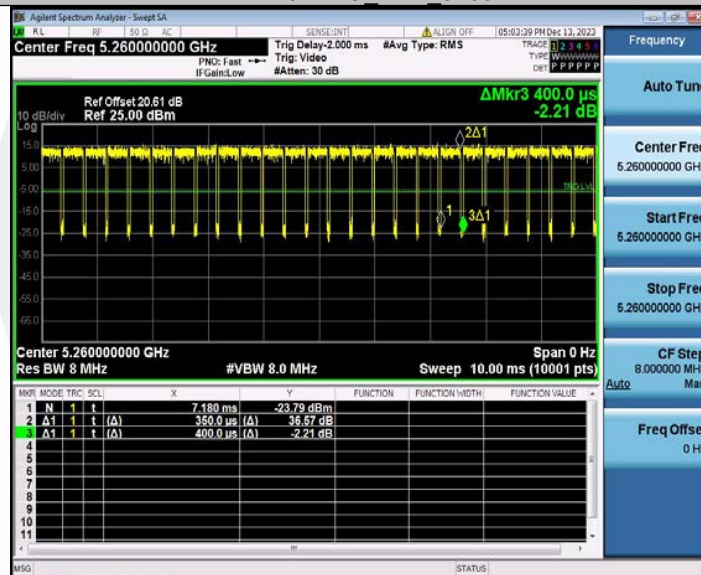
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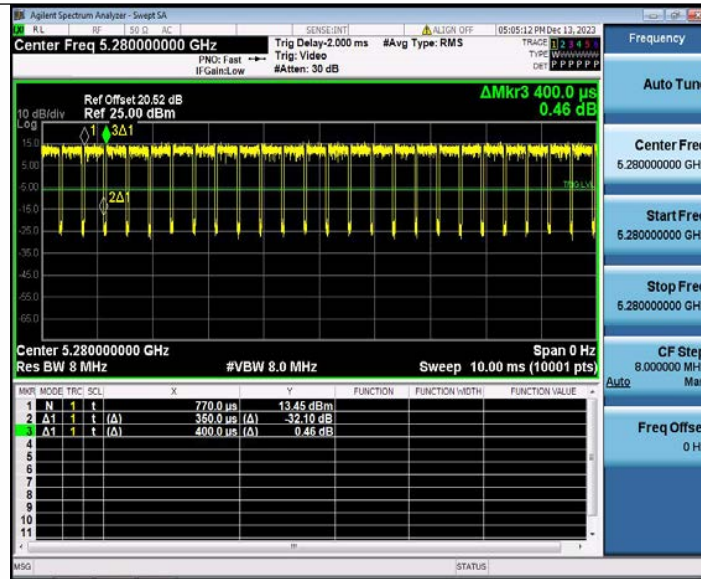
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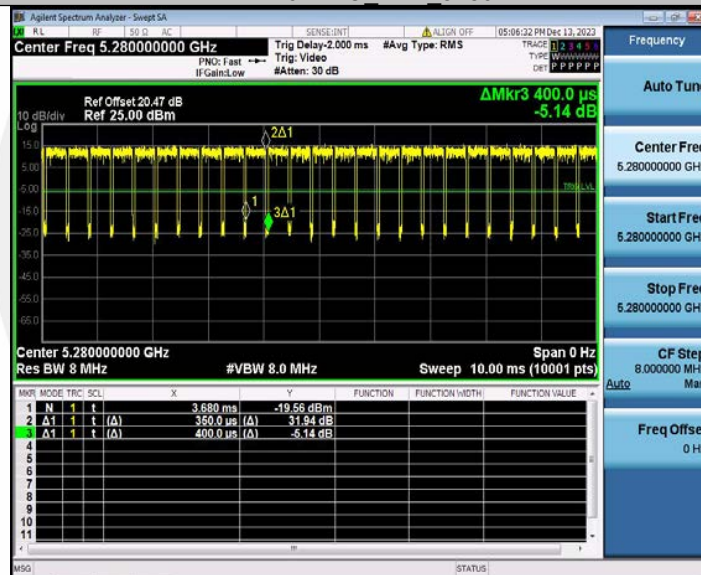
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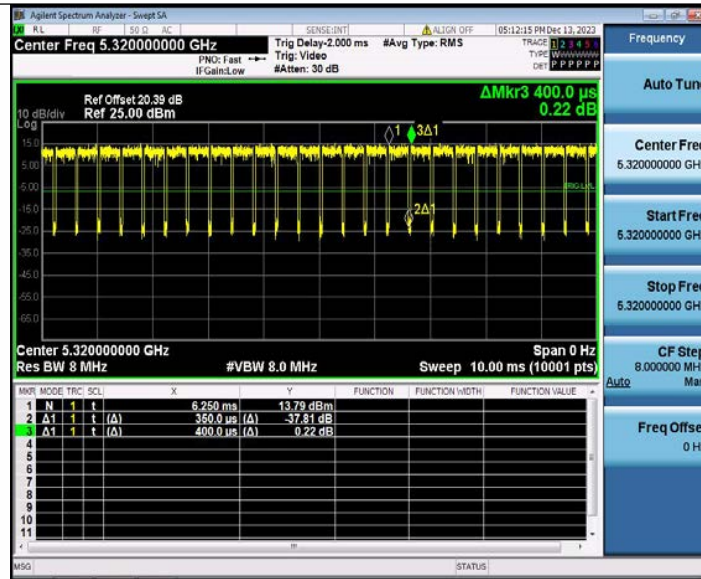
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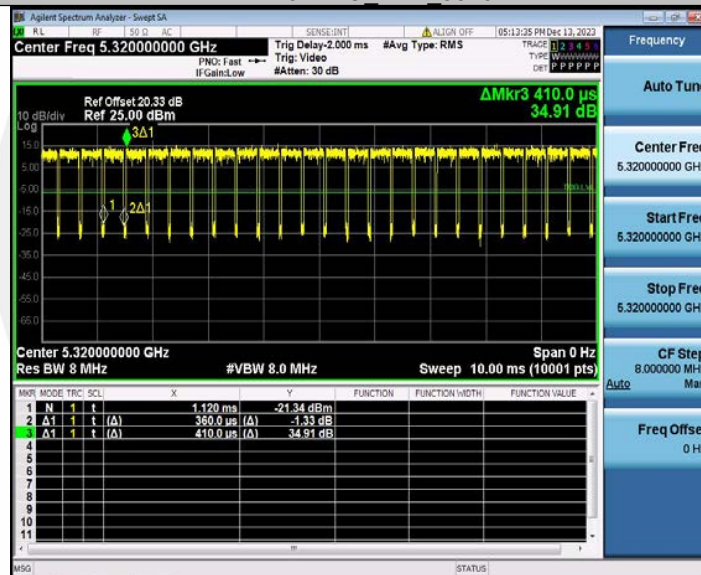
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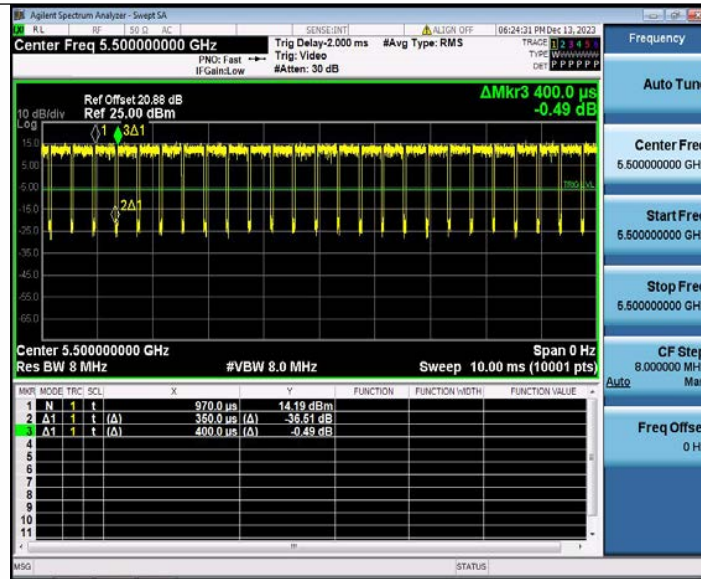
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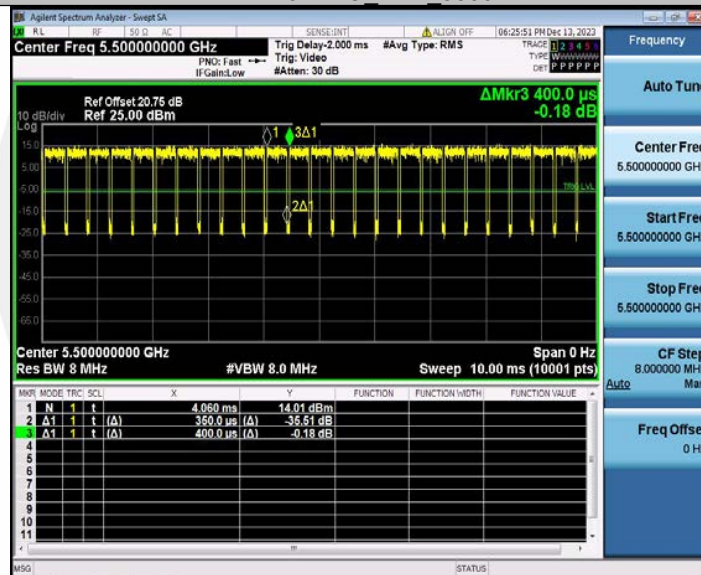
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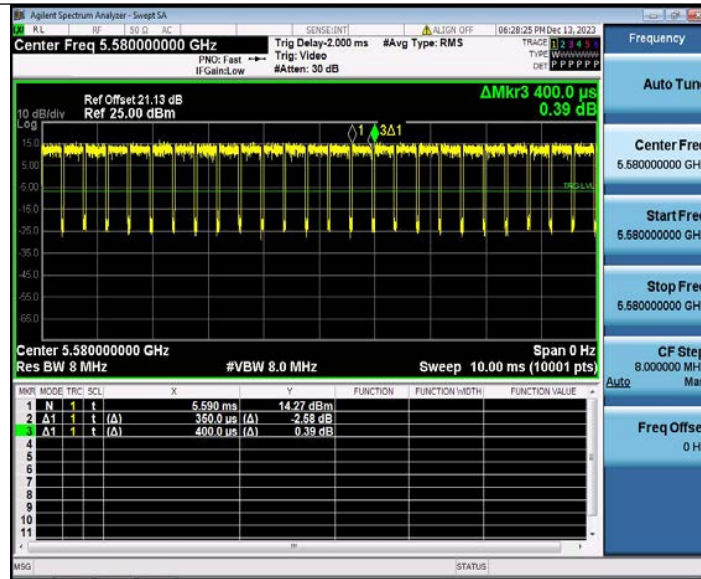
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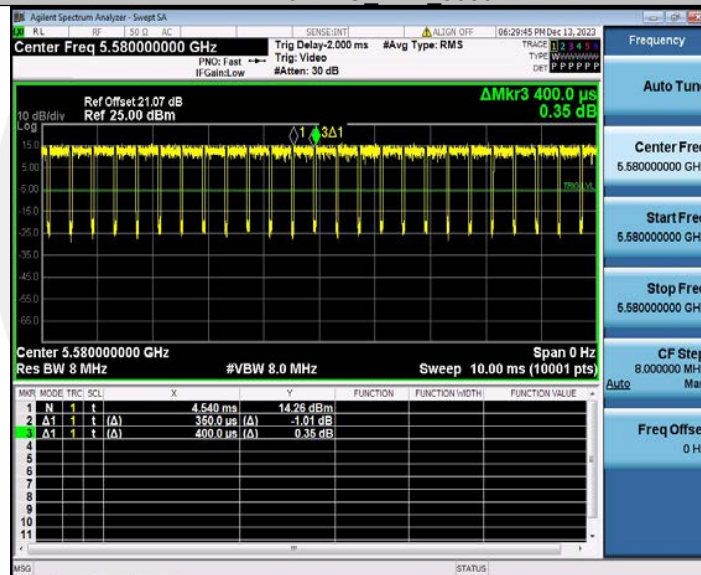
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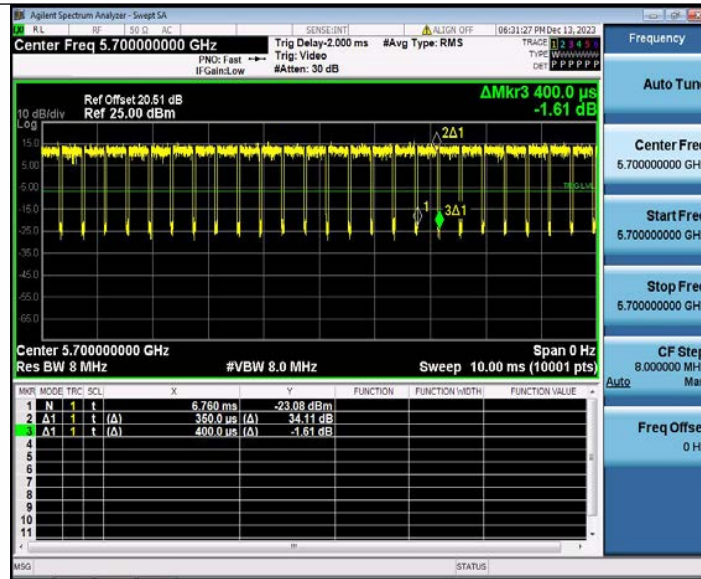
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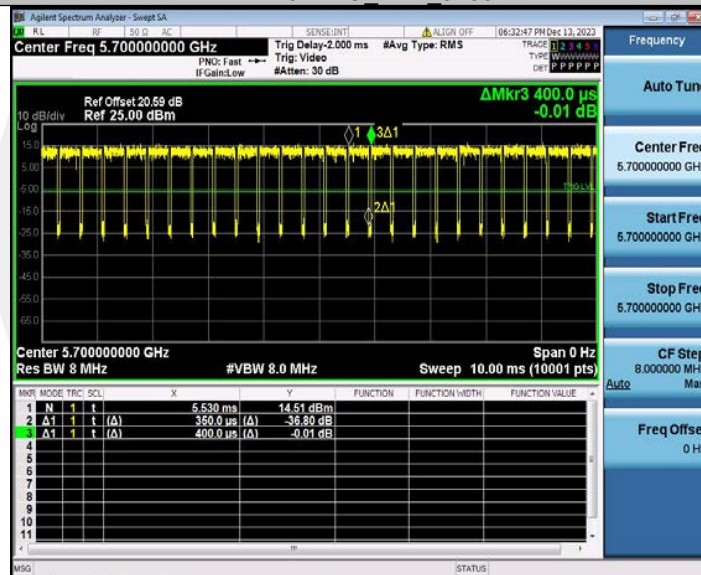
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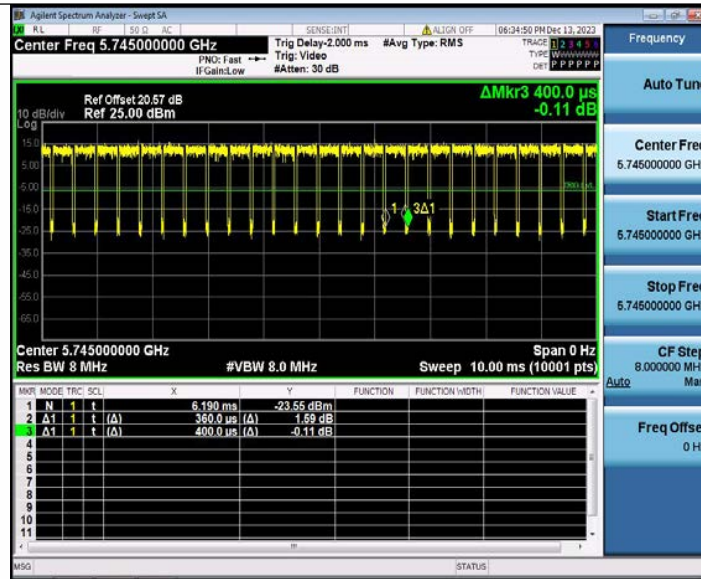
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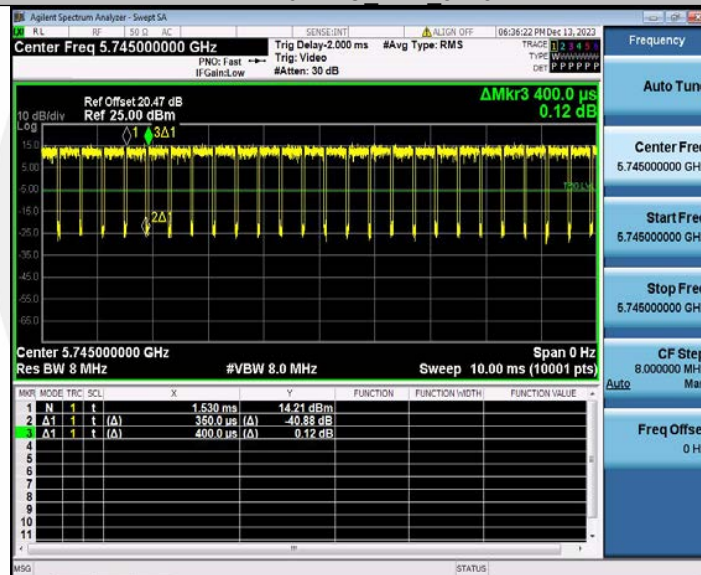
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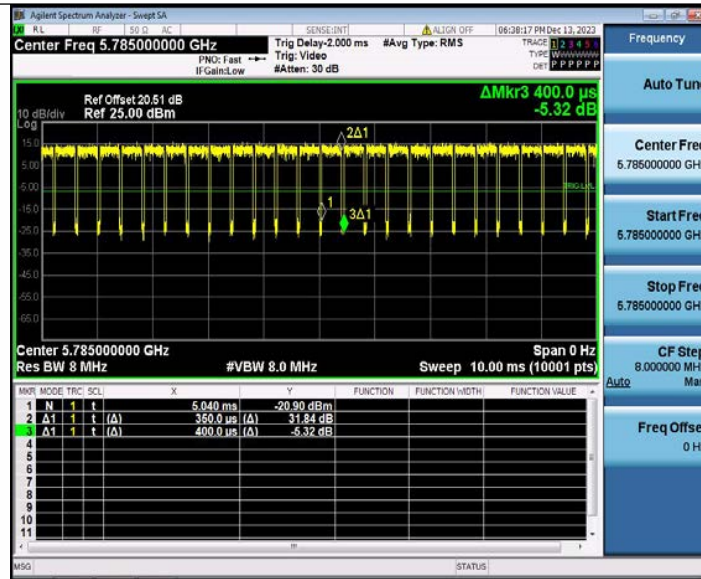
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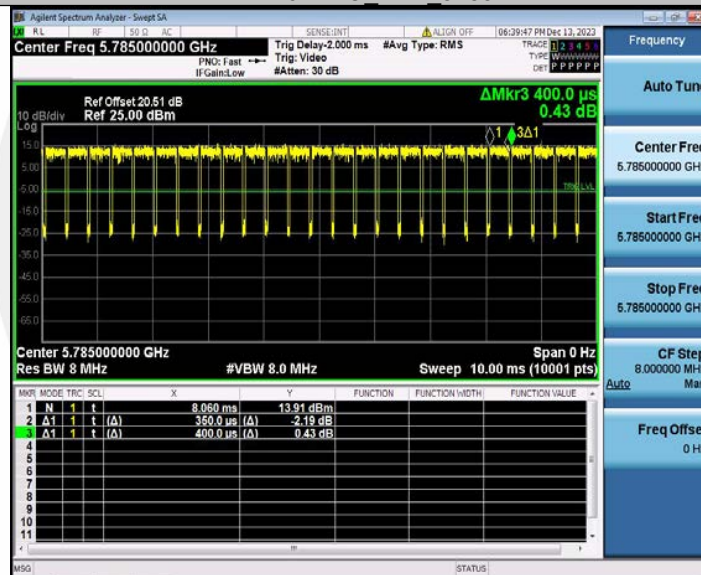
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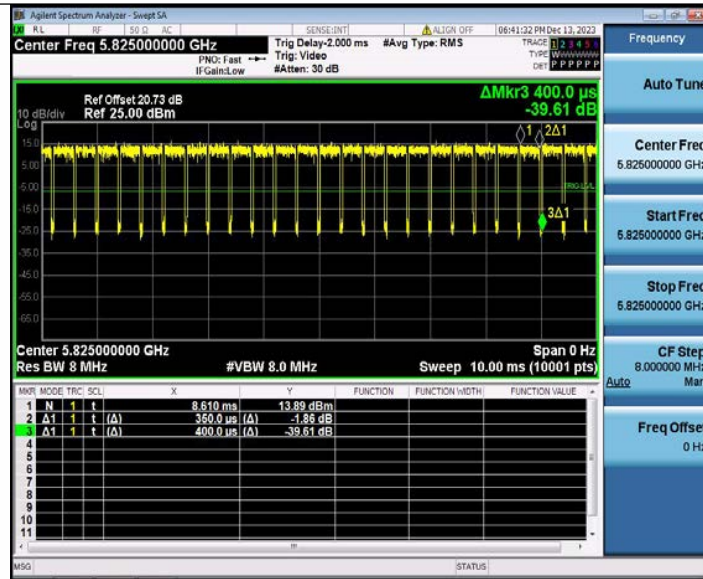
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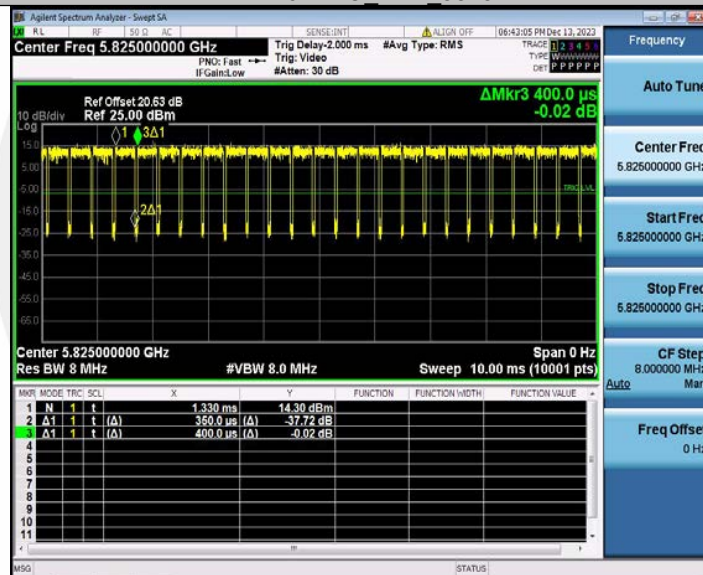
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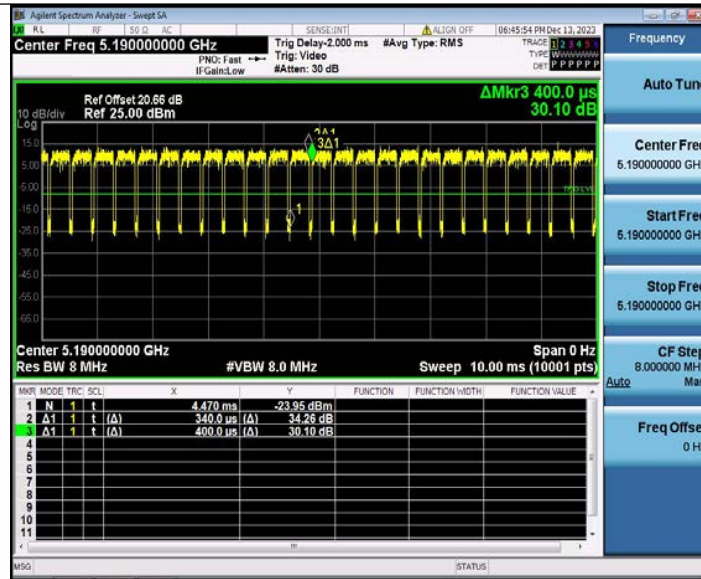
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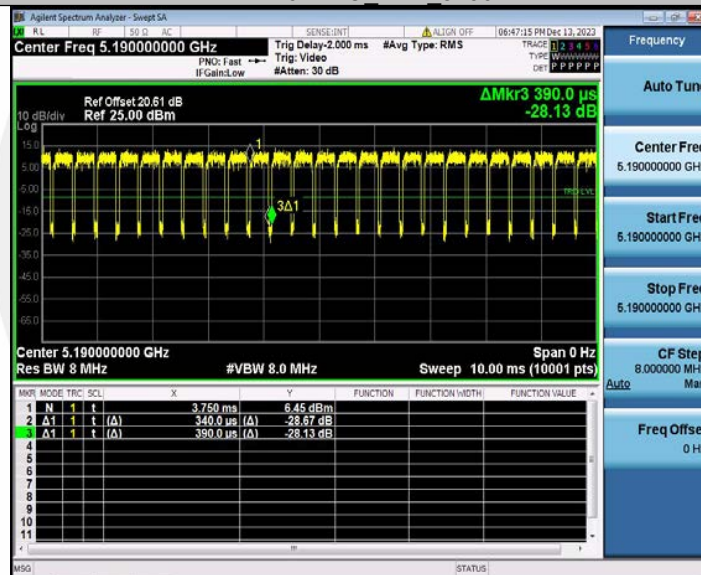
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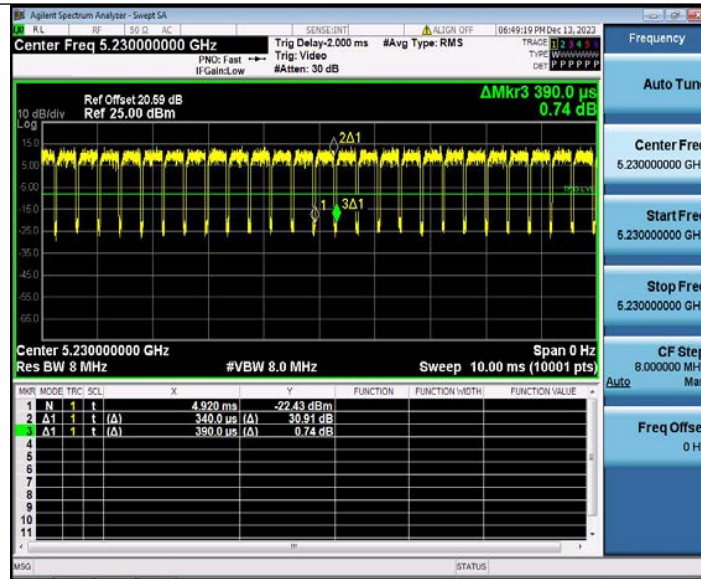
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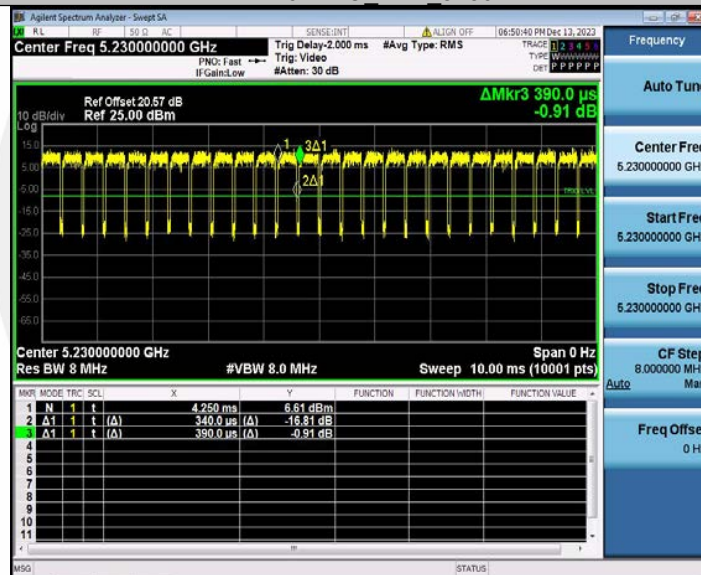
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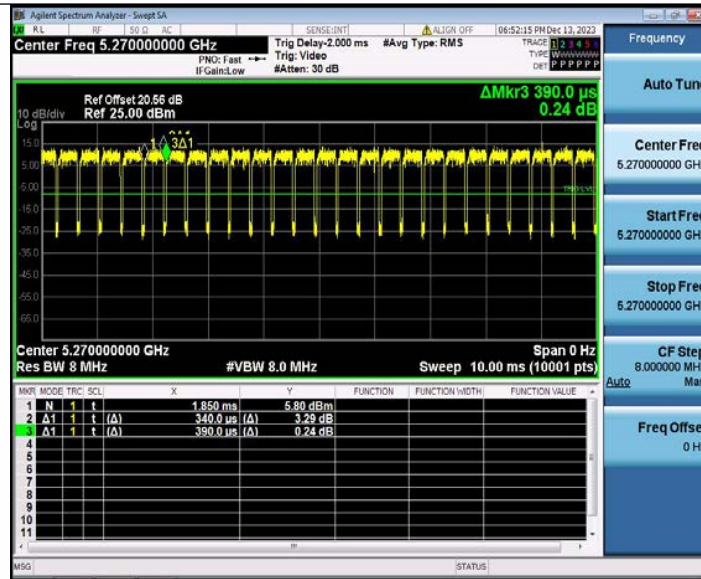
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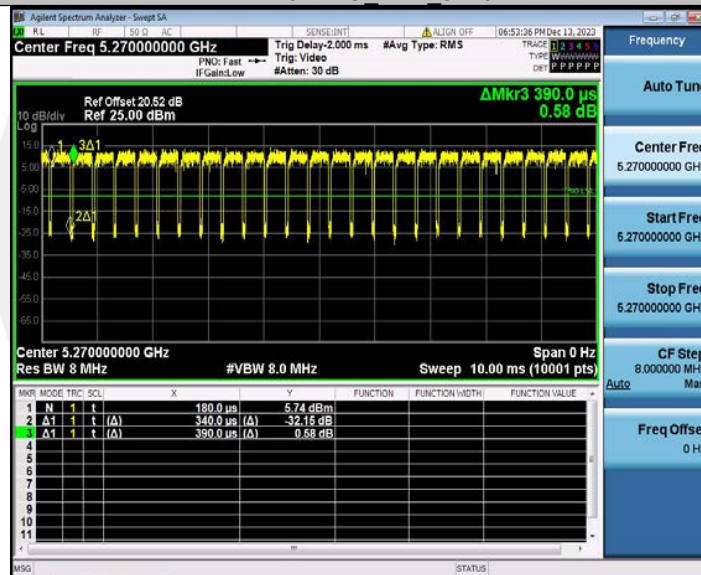
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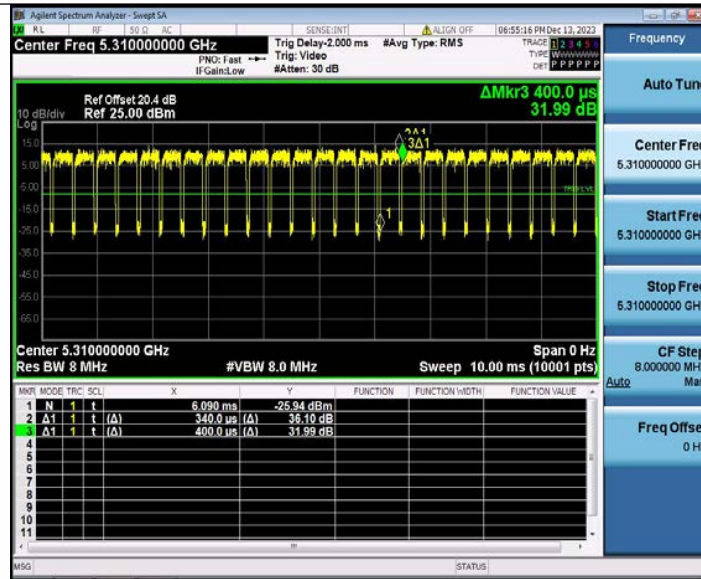
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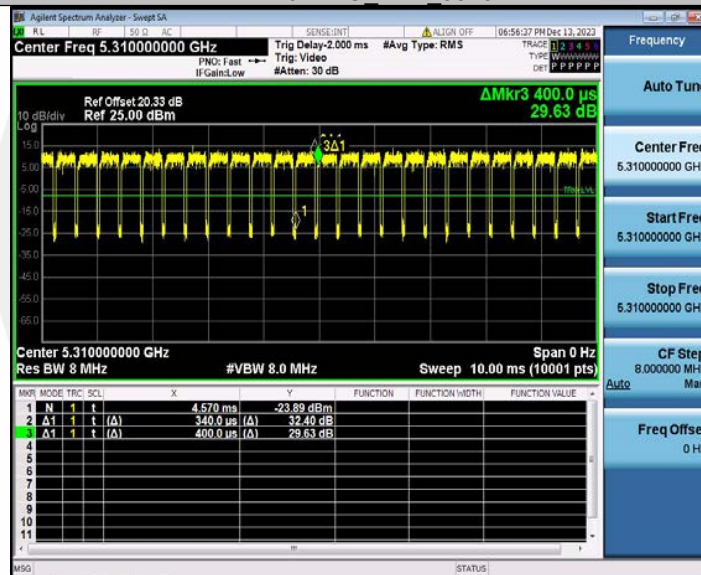
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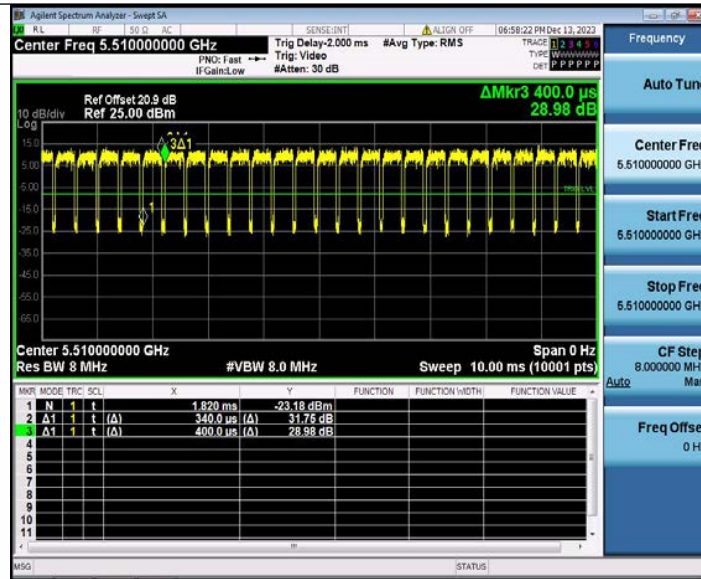
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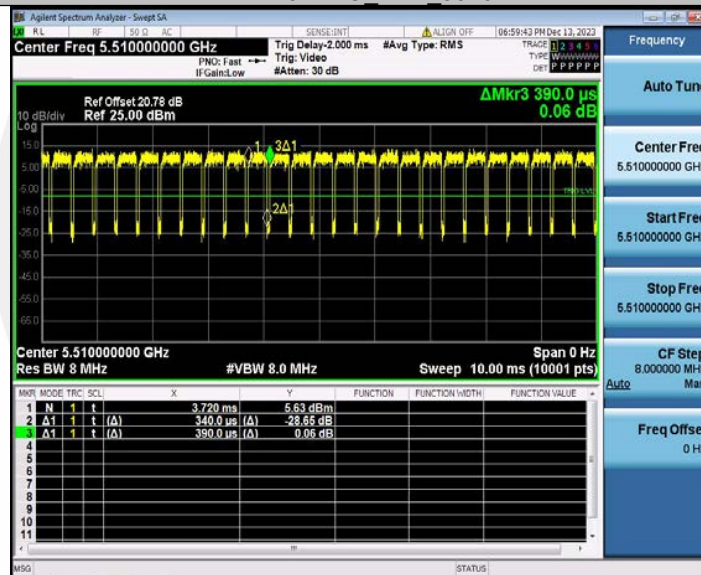
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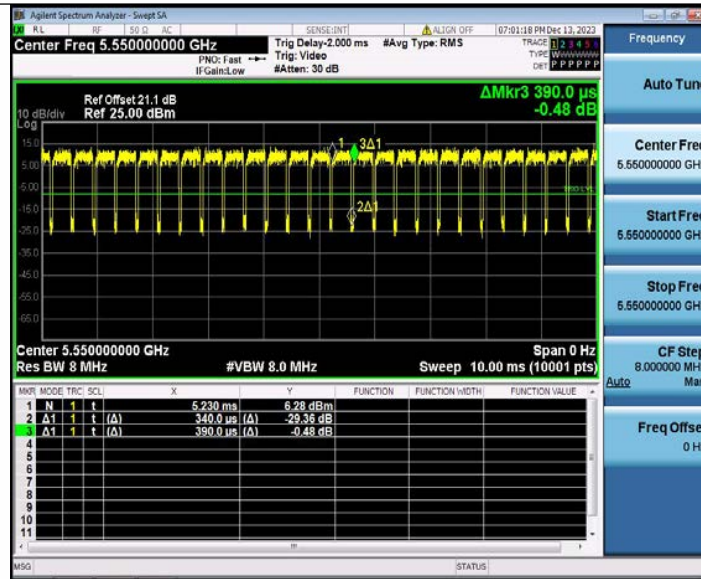
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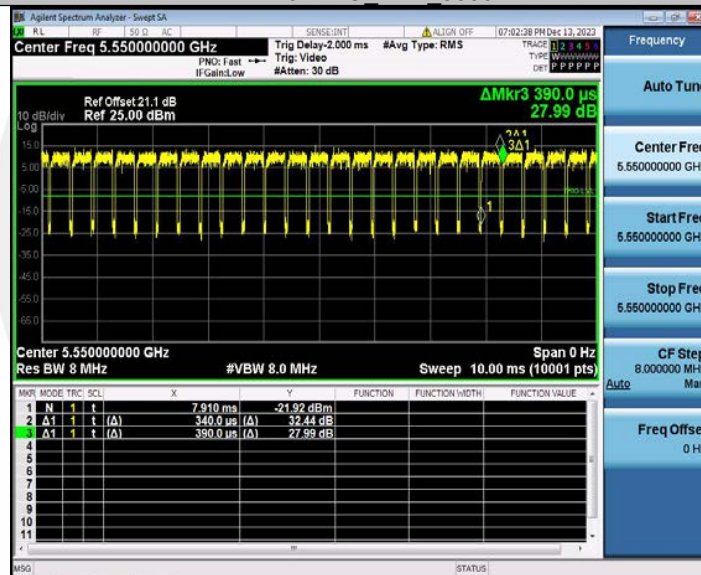
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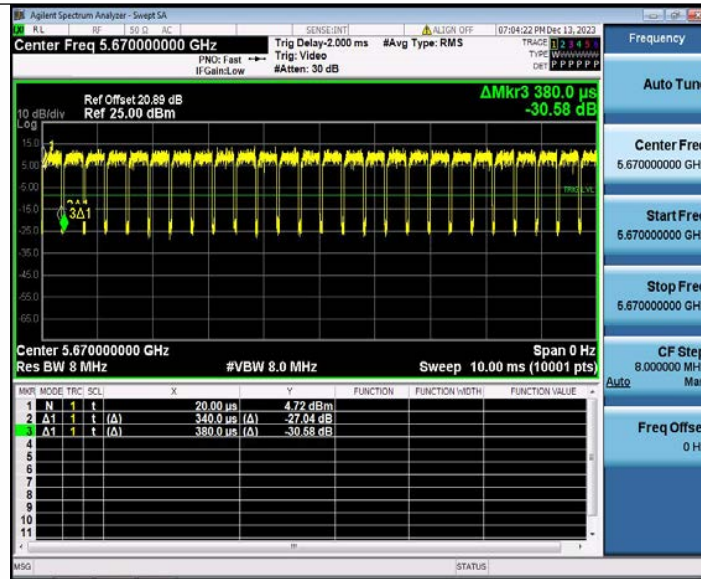
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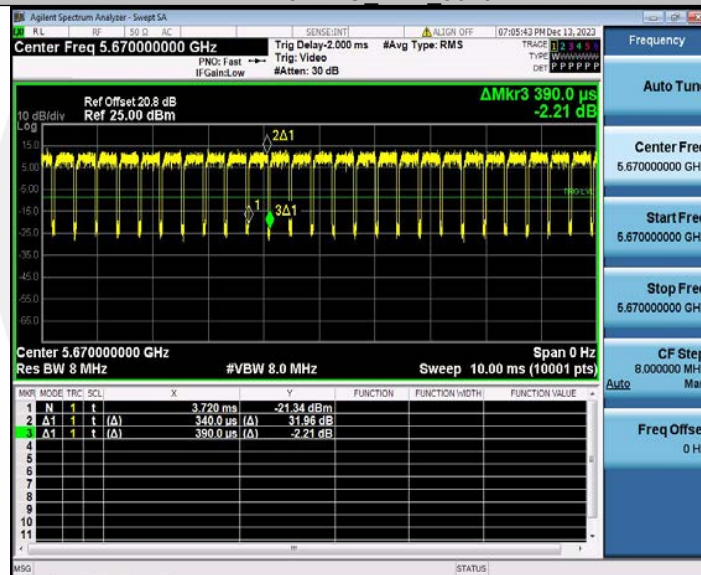
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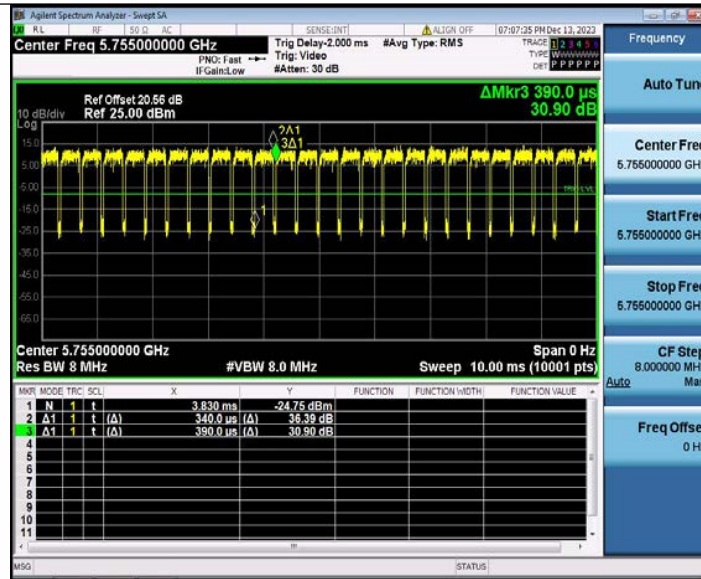
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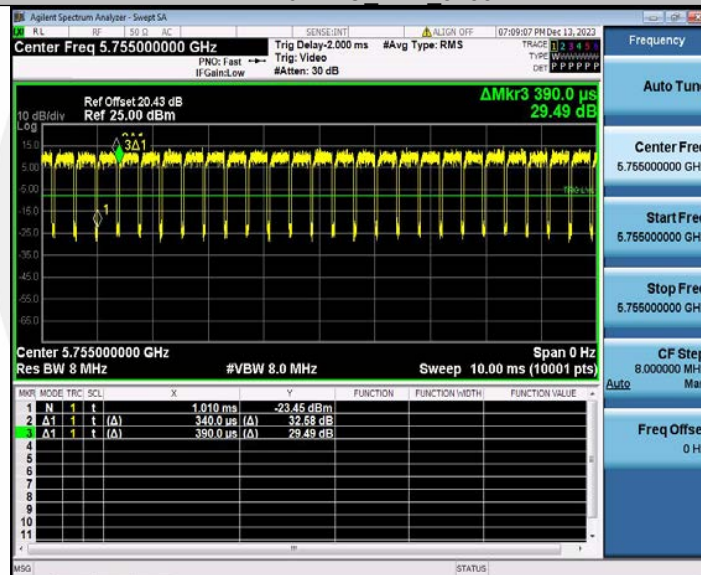
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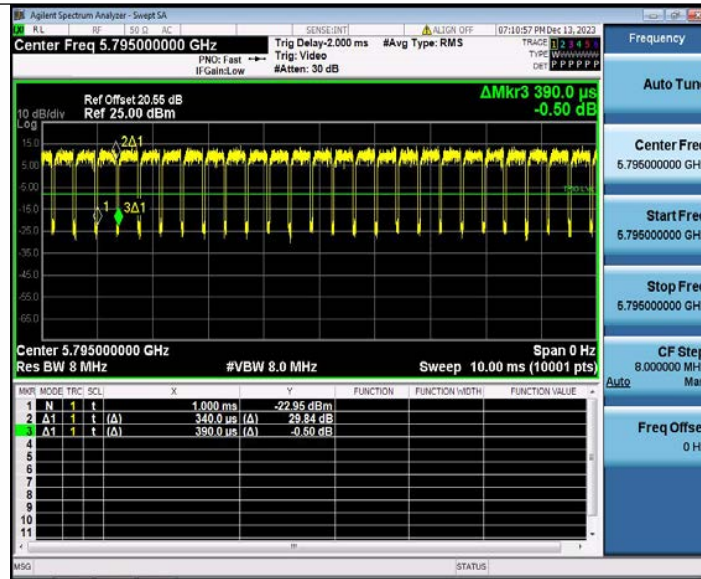
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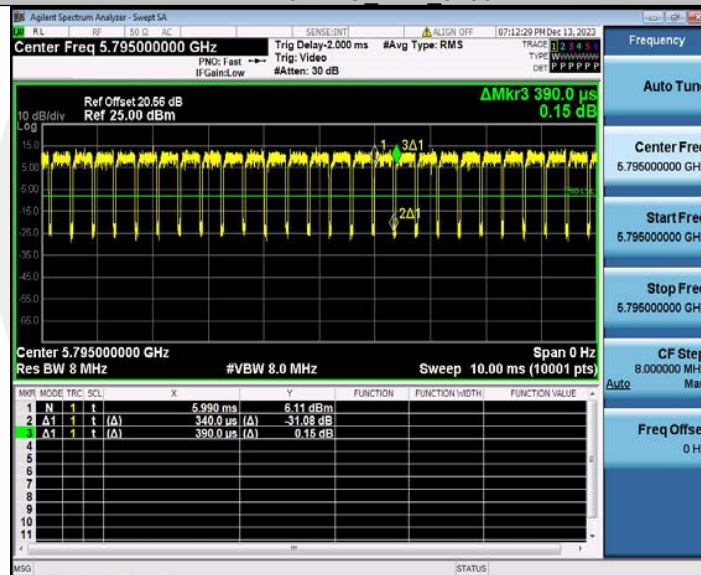
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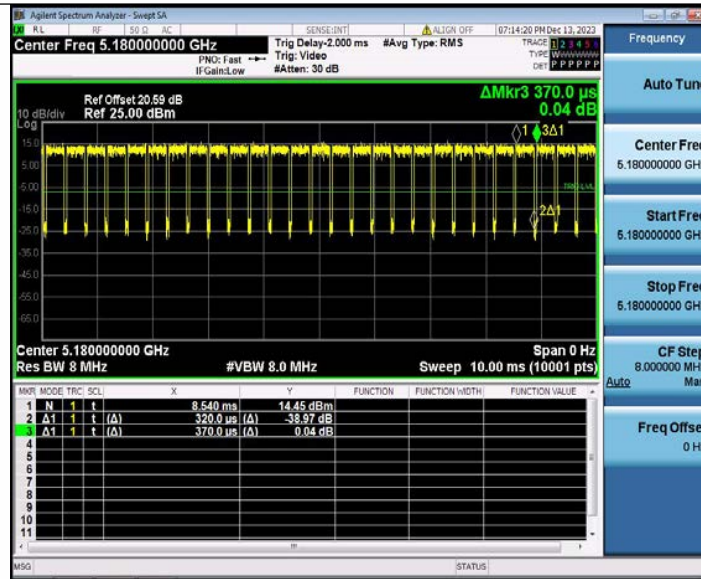
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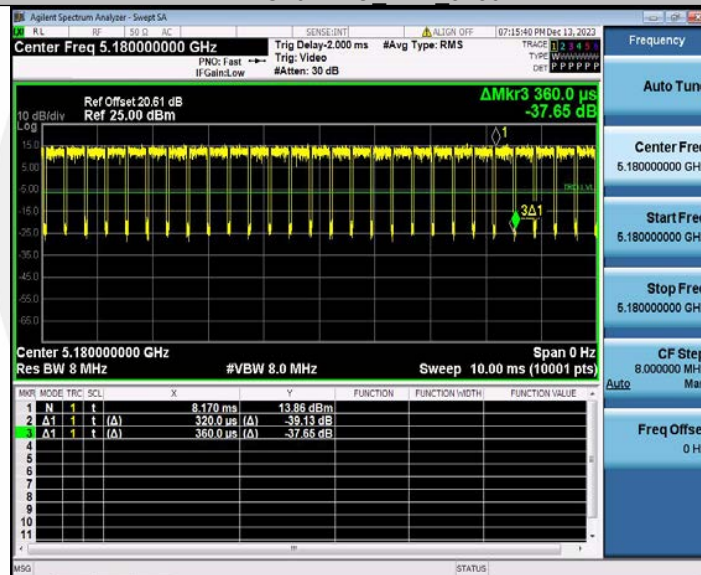
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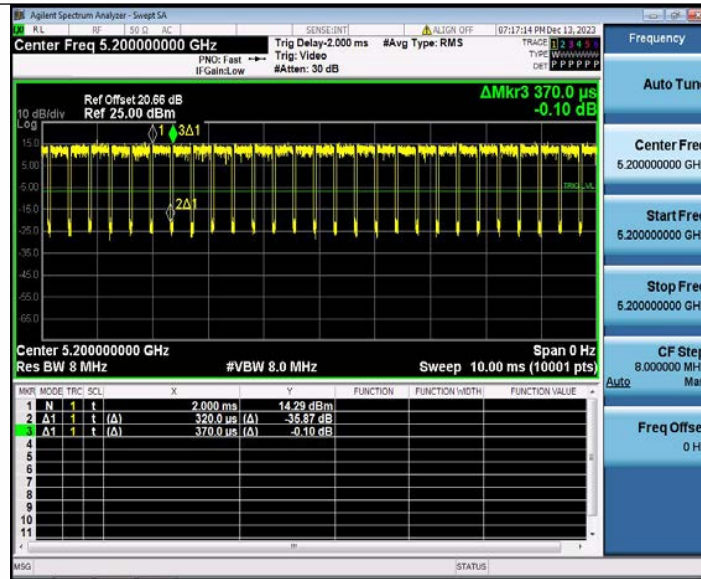
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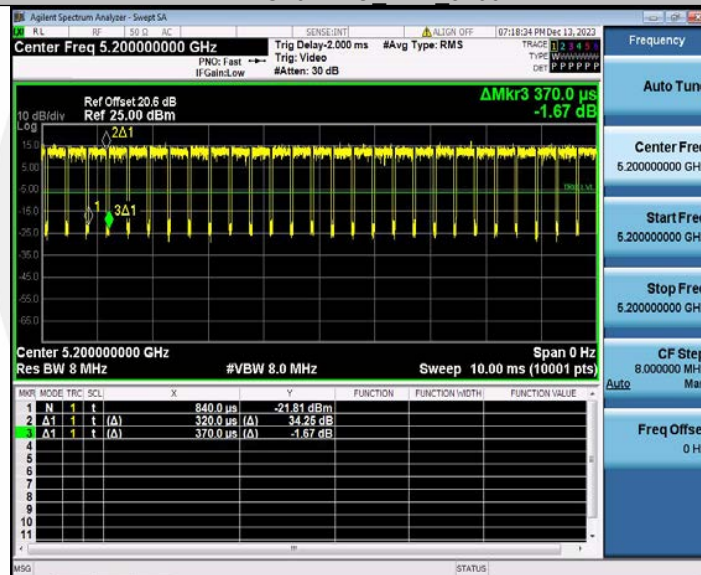
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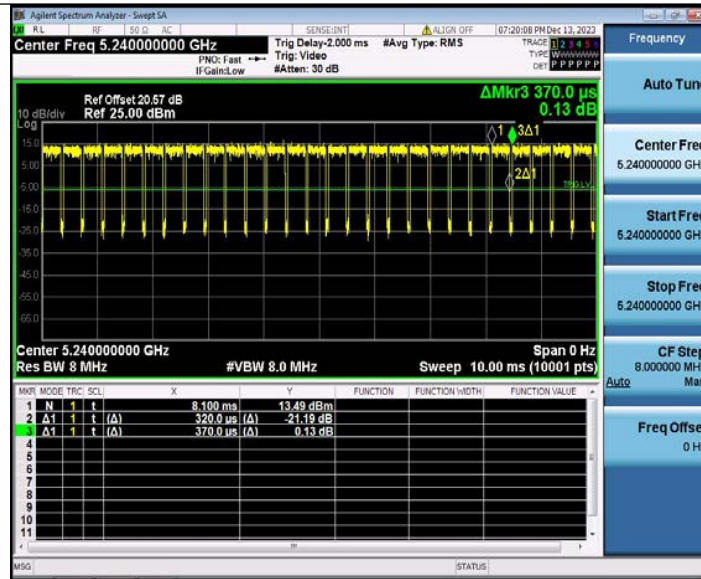
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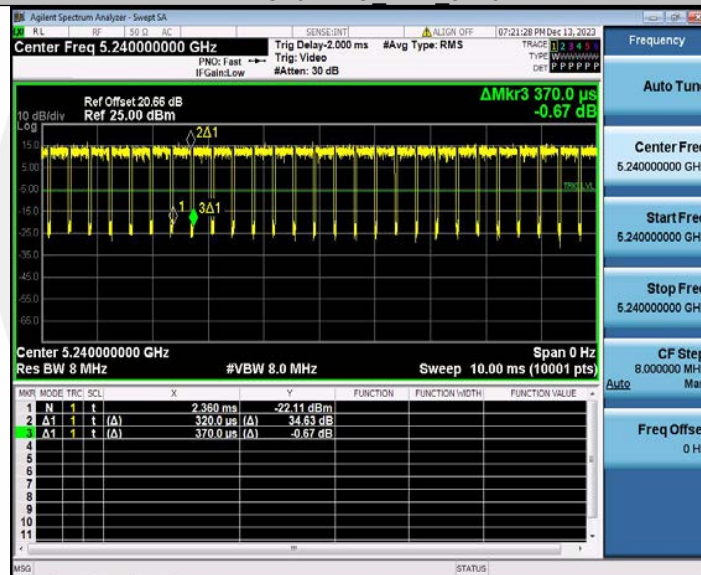
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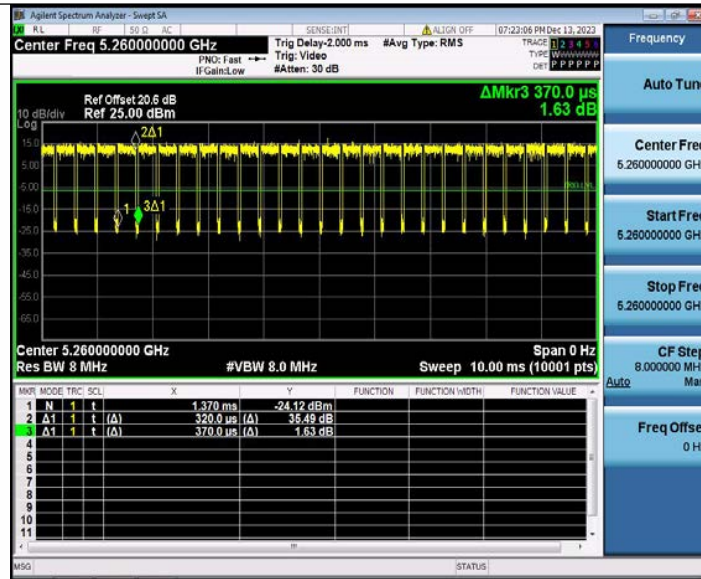
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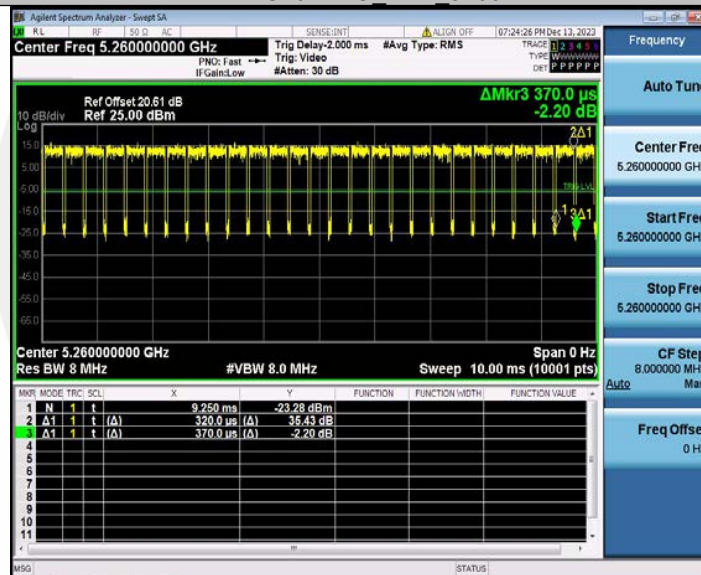
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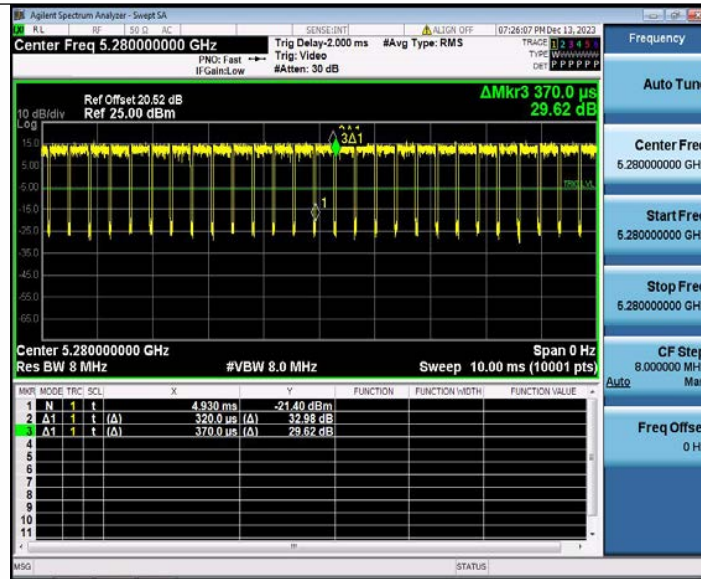
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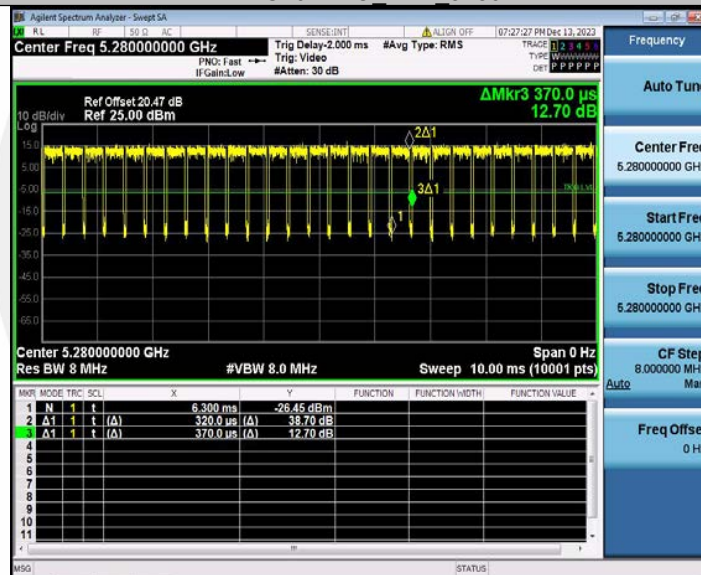
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11AC20MIMO_Ant1_5280



11AC20MIMO_Ant2_5280



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