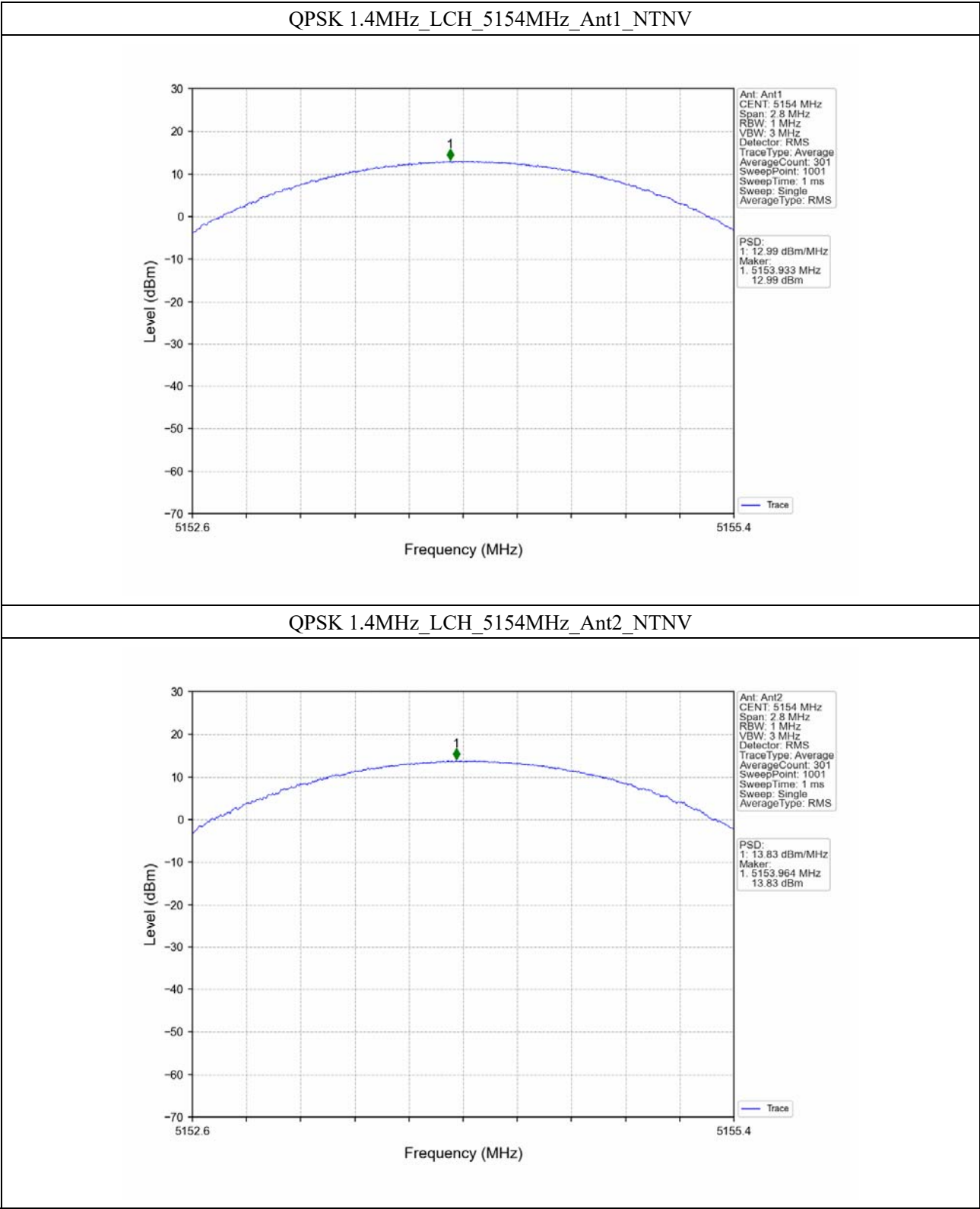




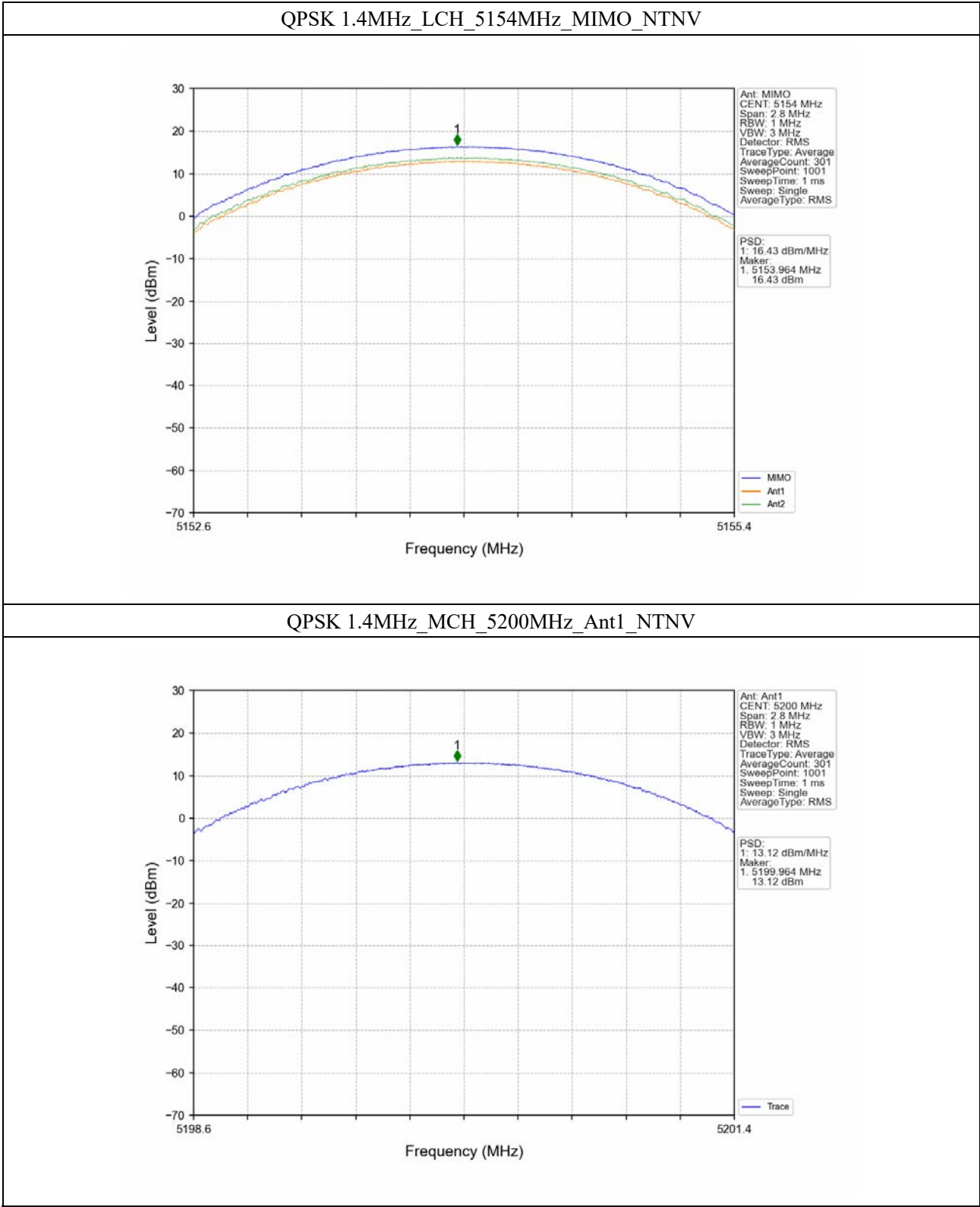
For PCB antenna



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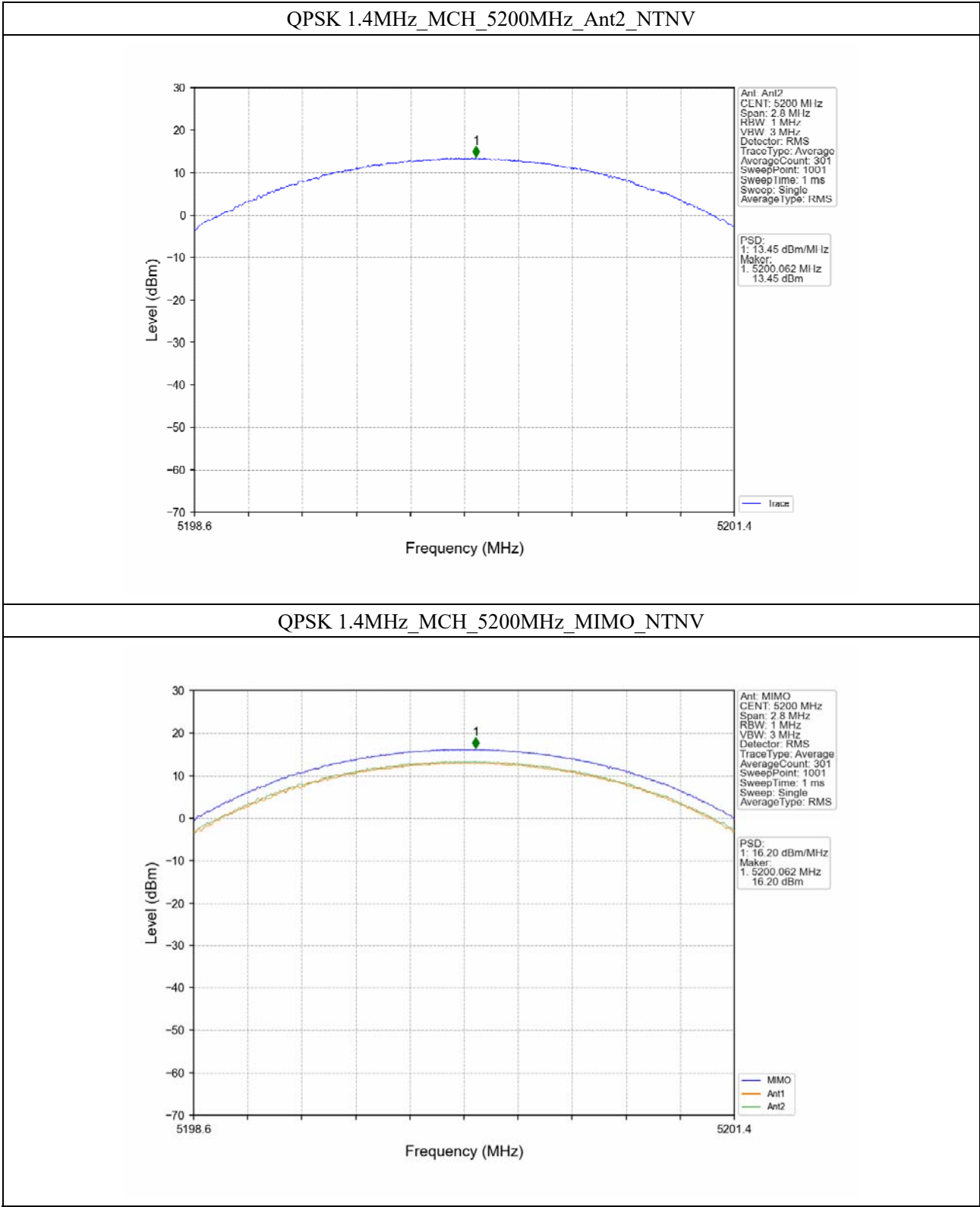
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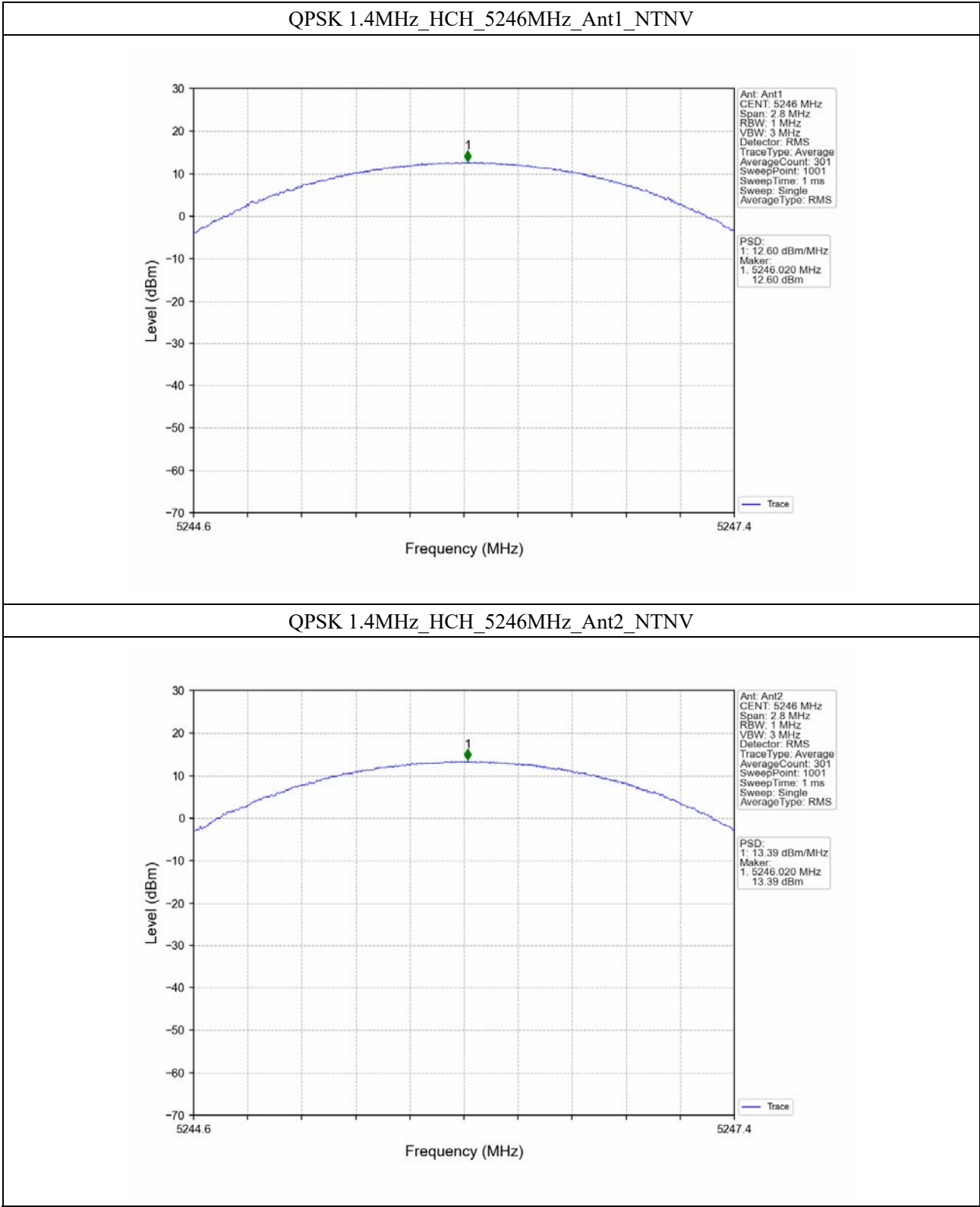
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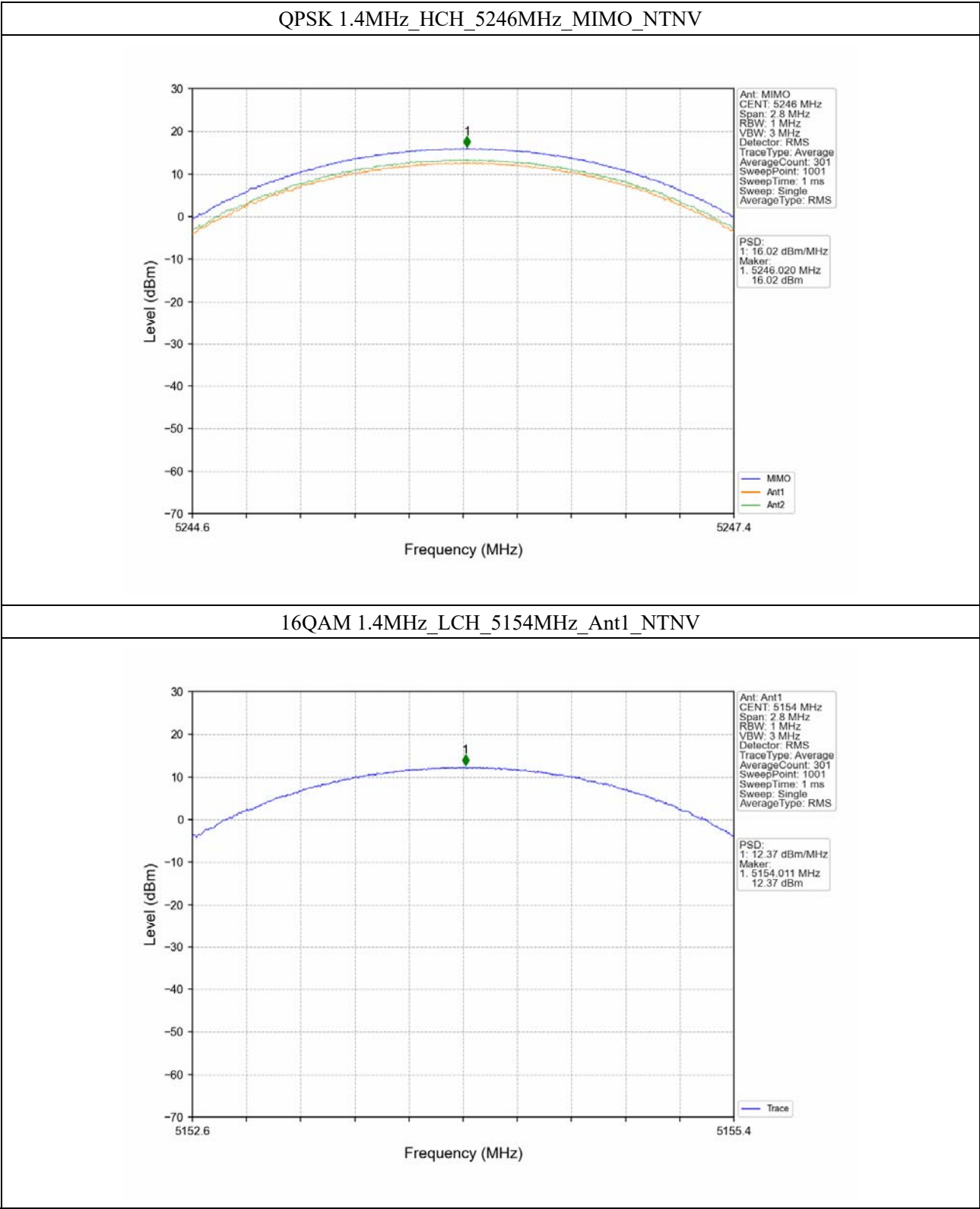
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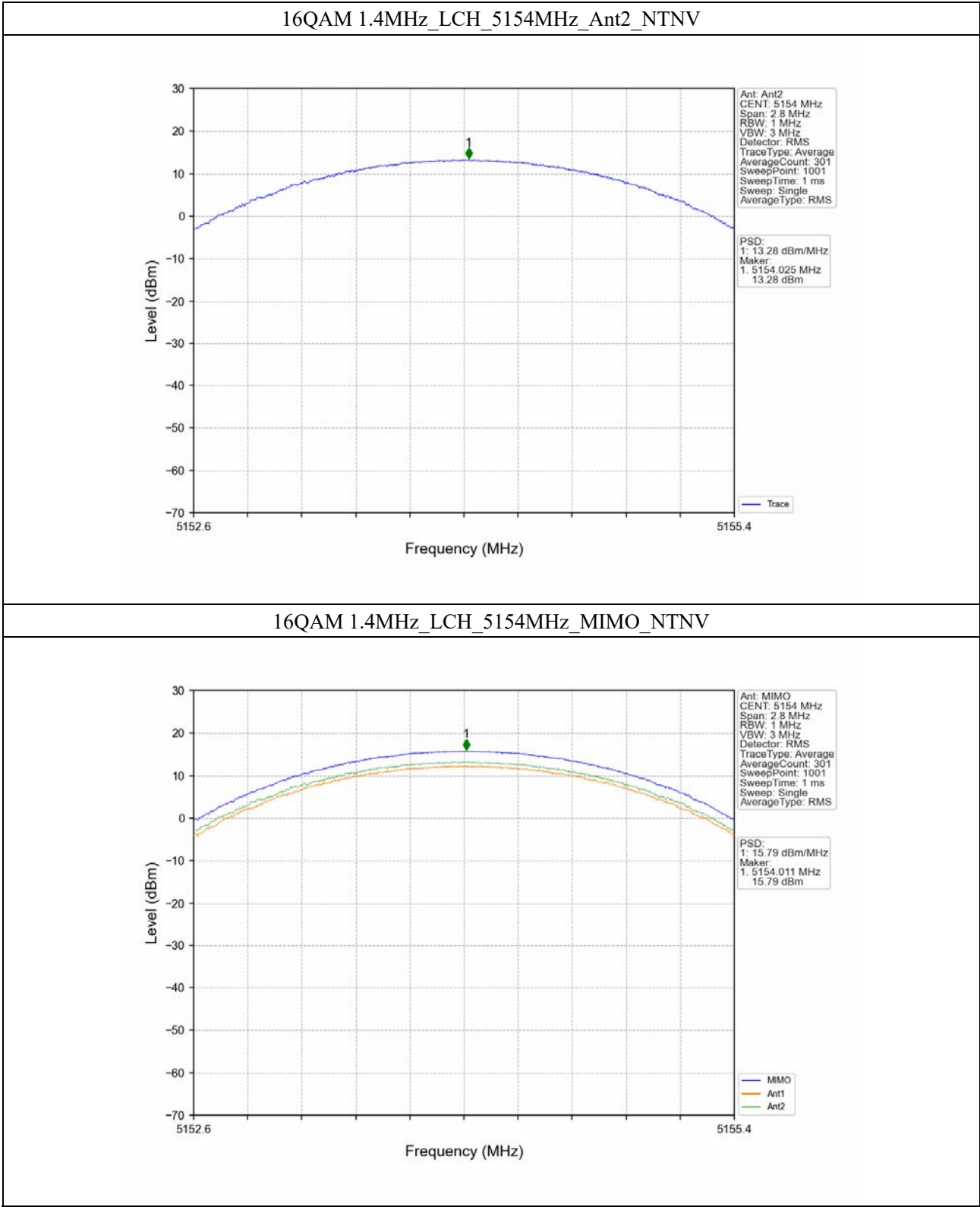
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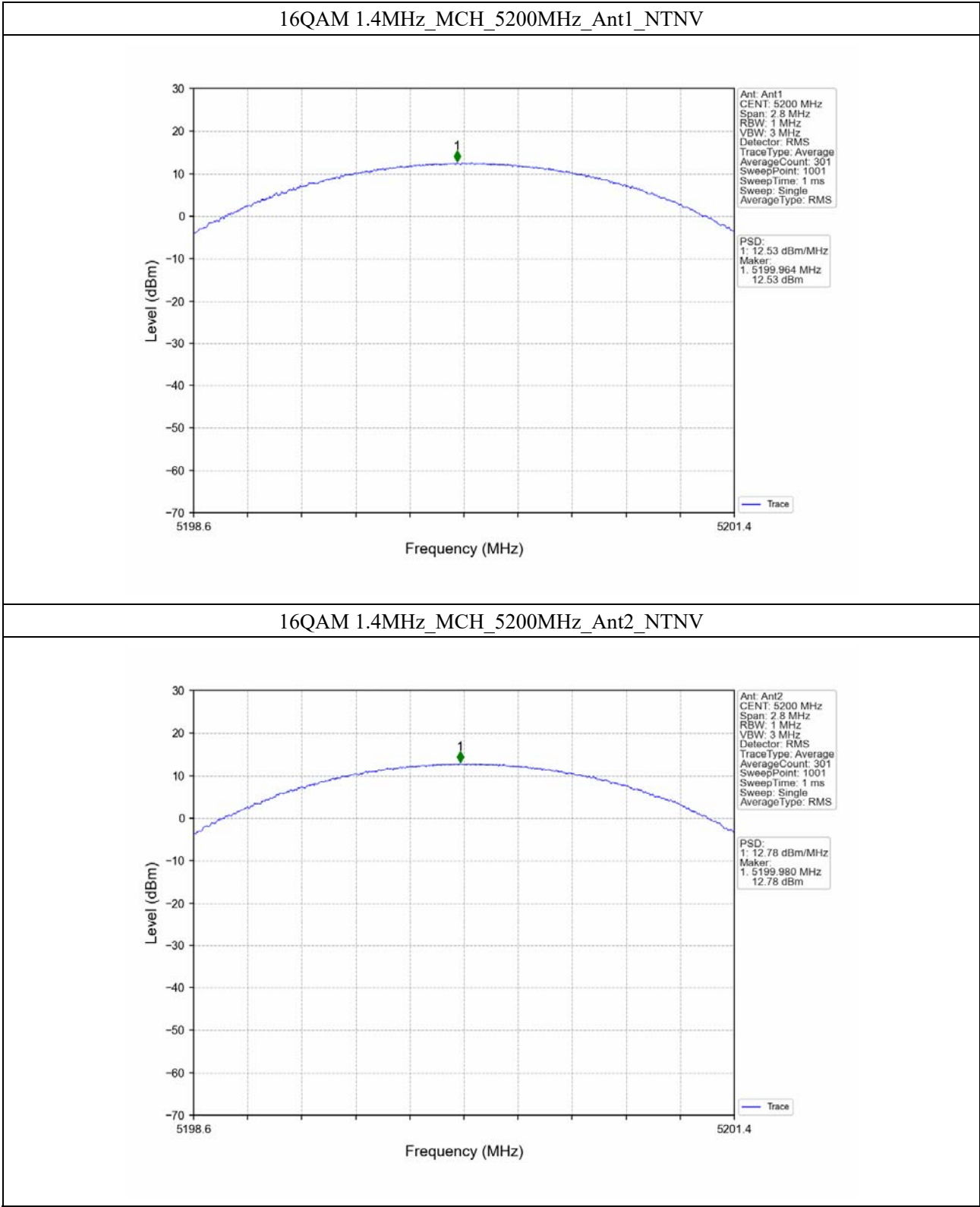
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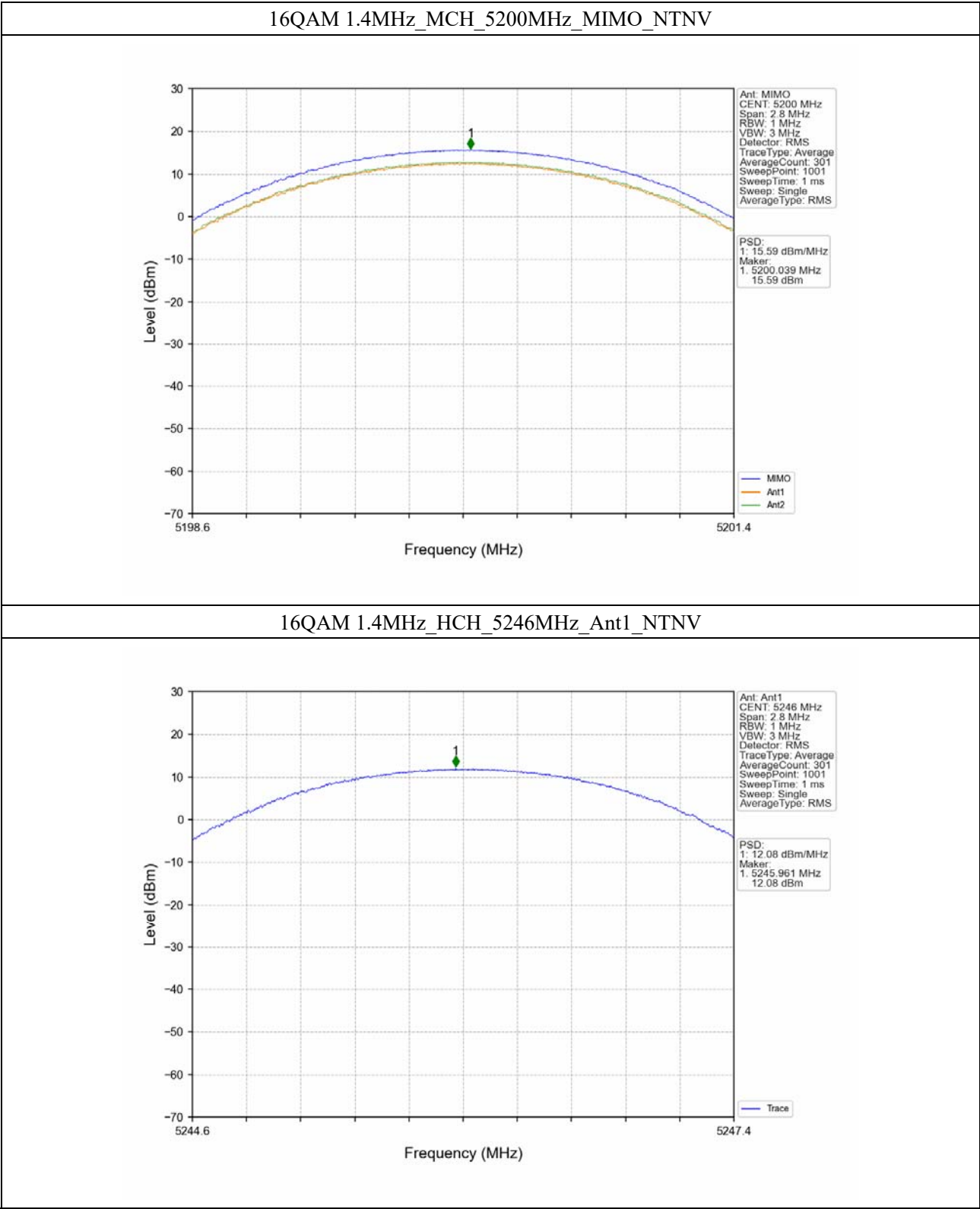
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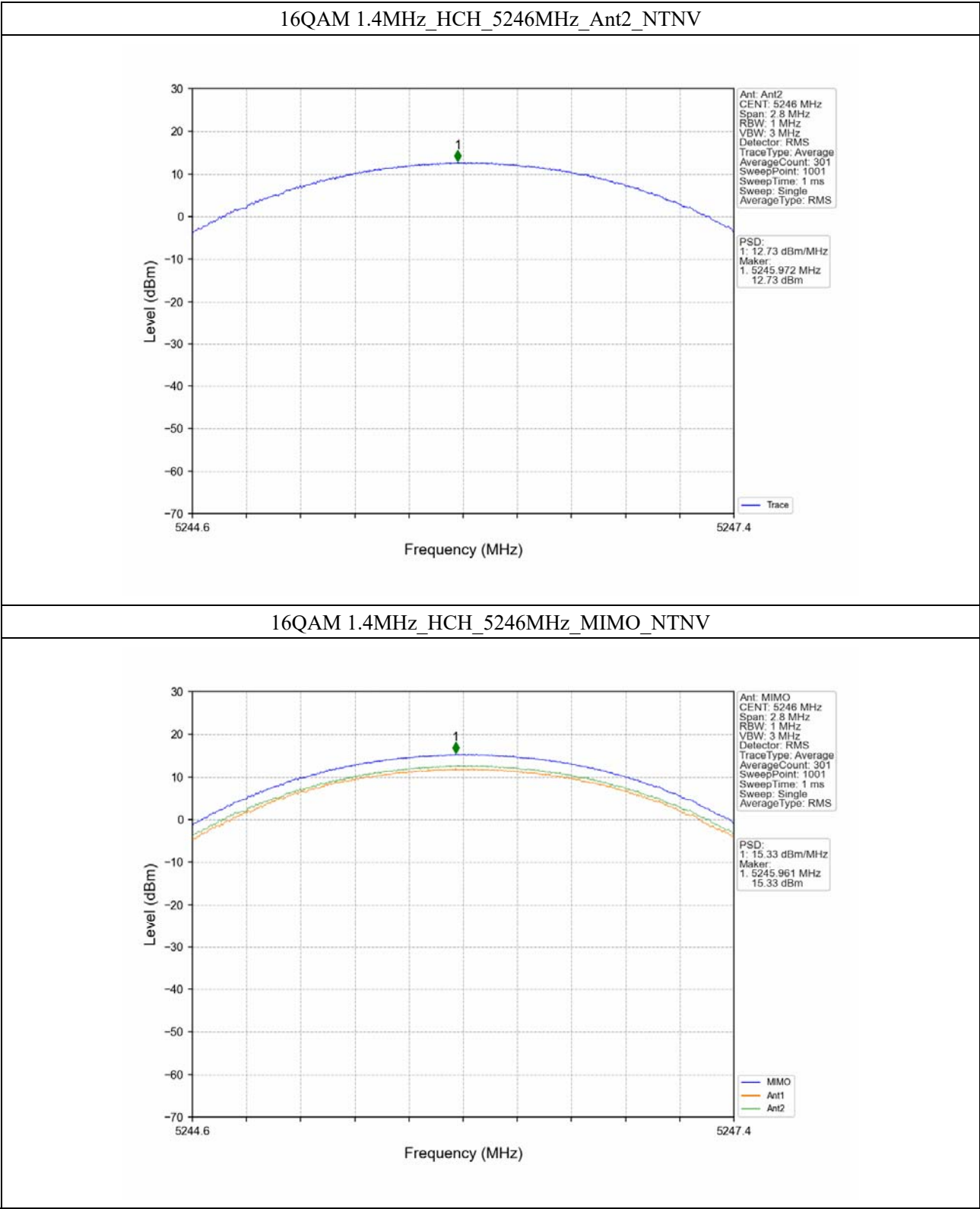
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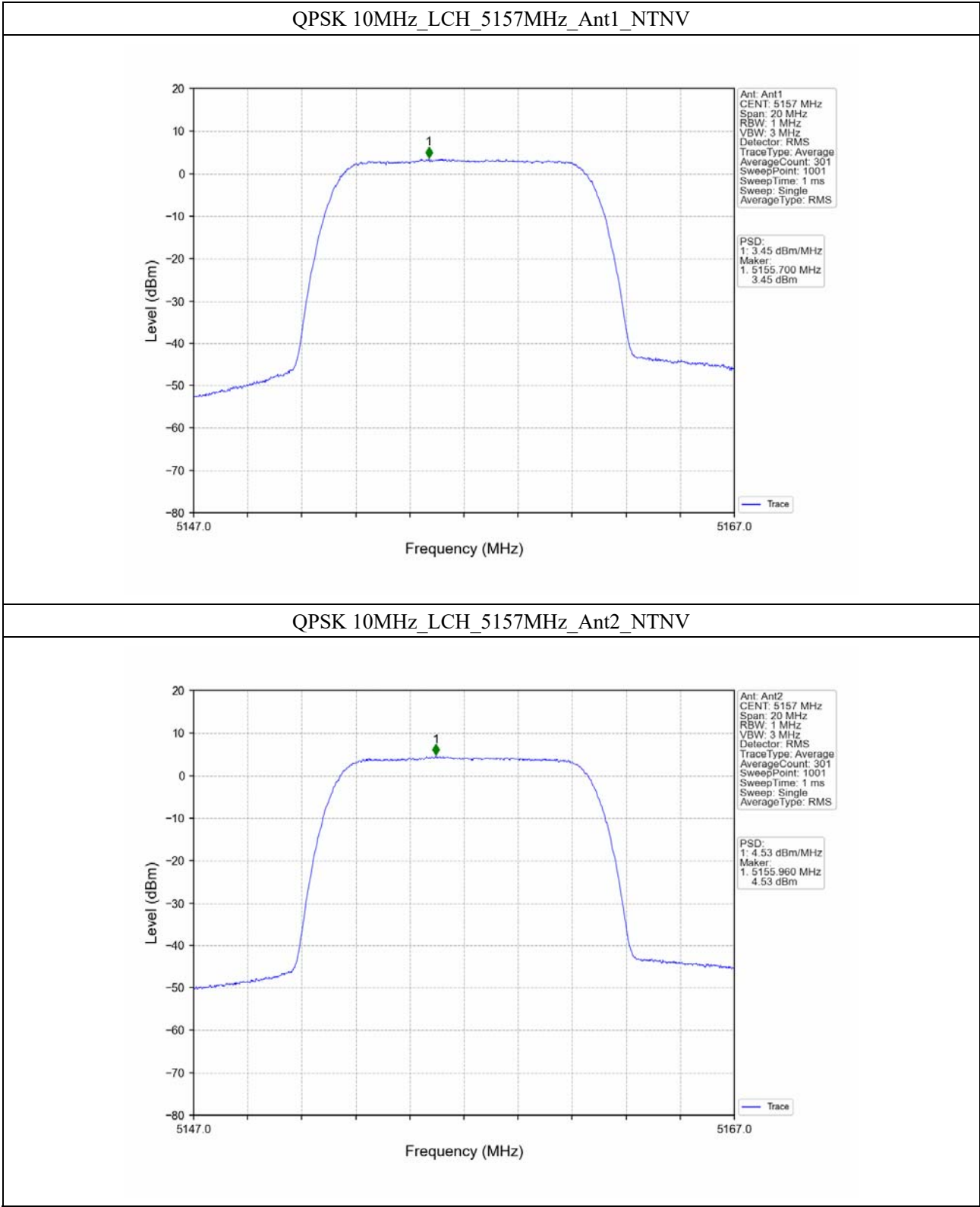
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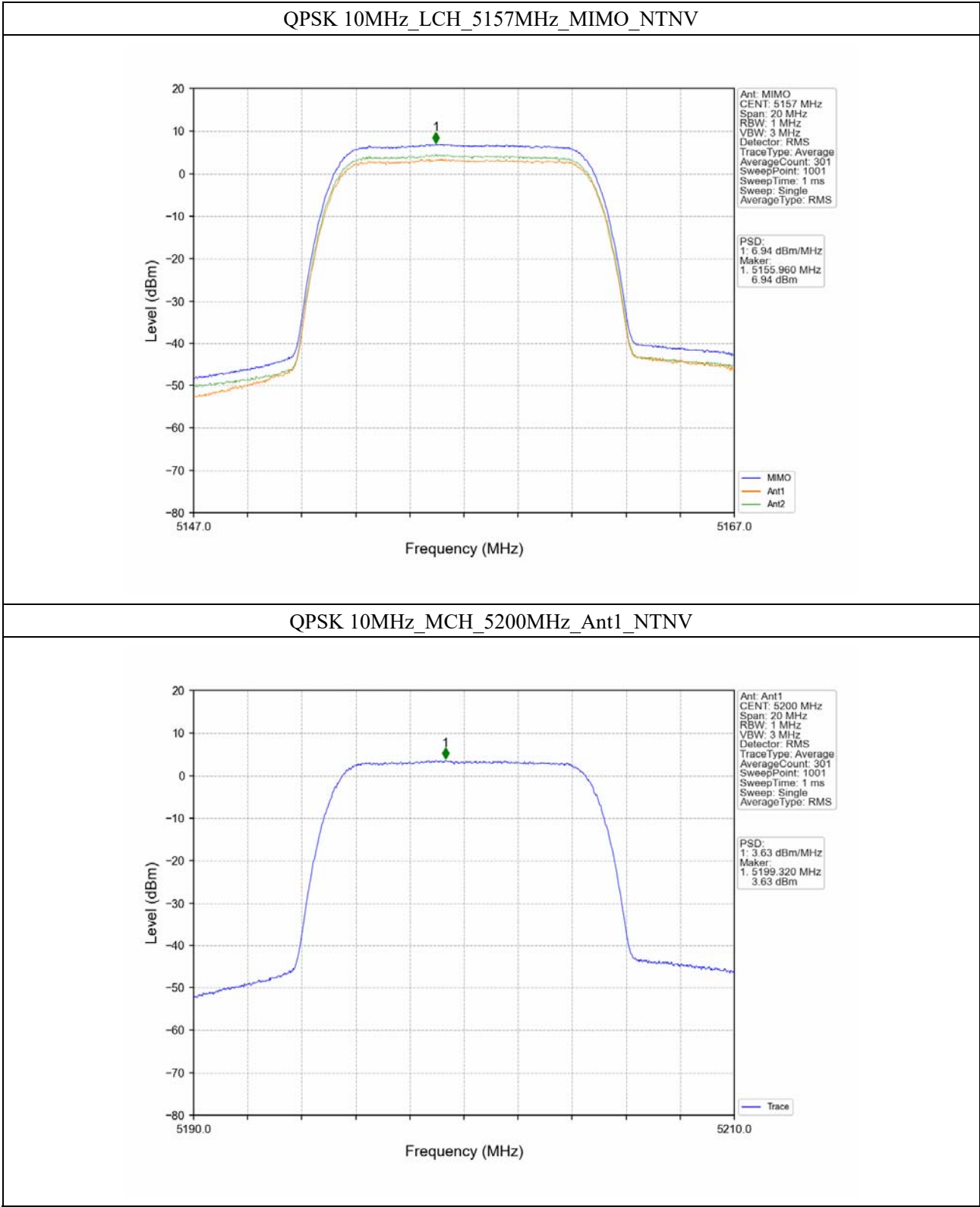
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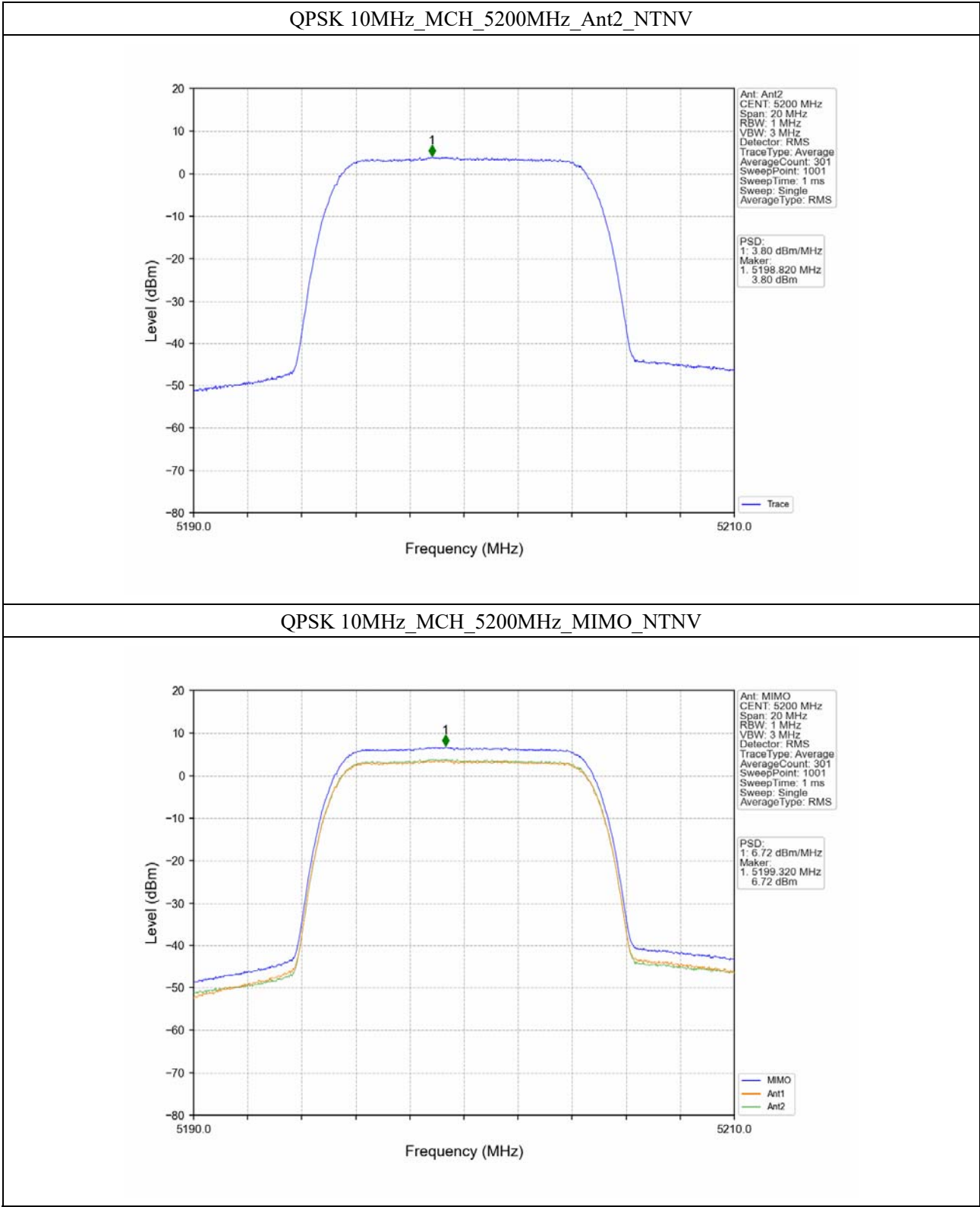
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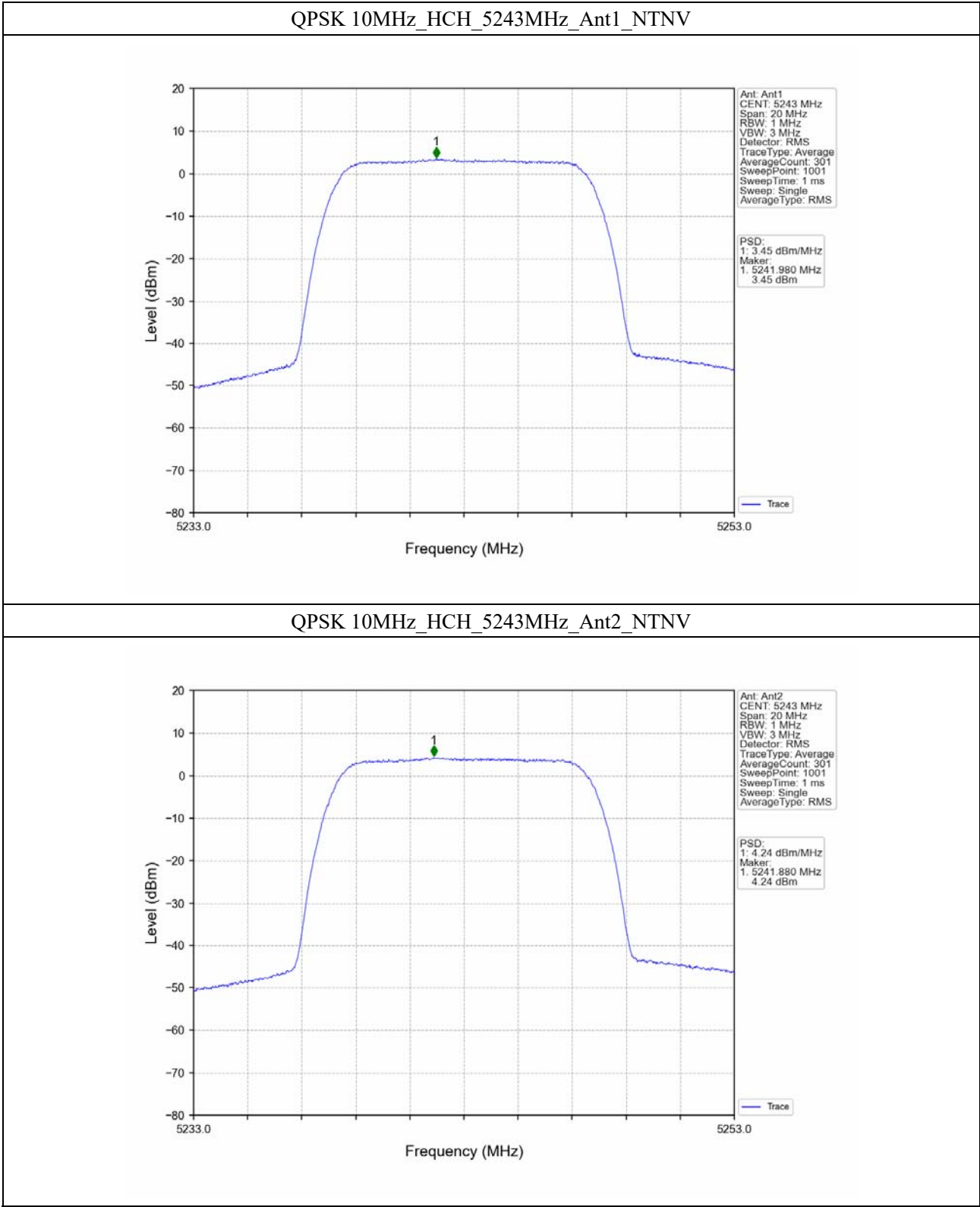
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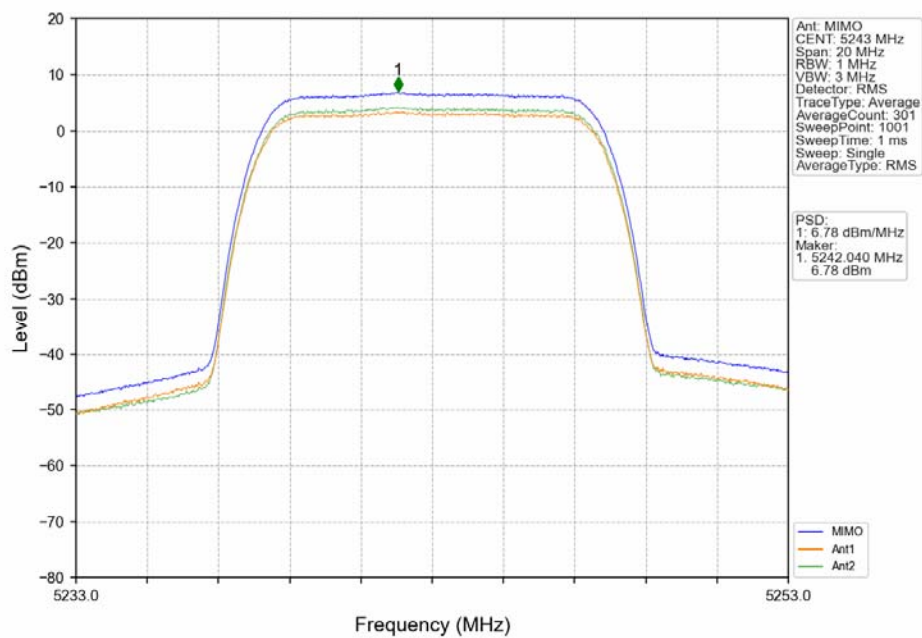
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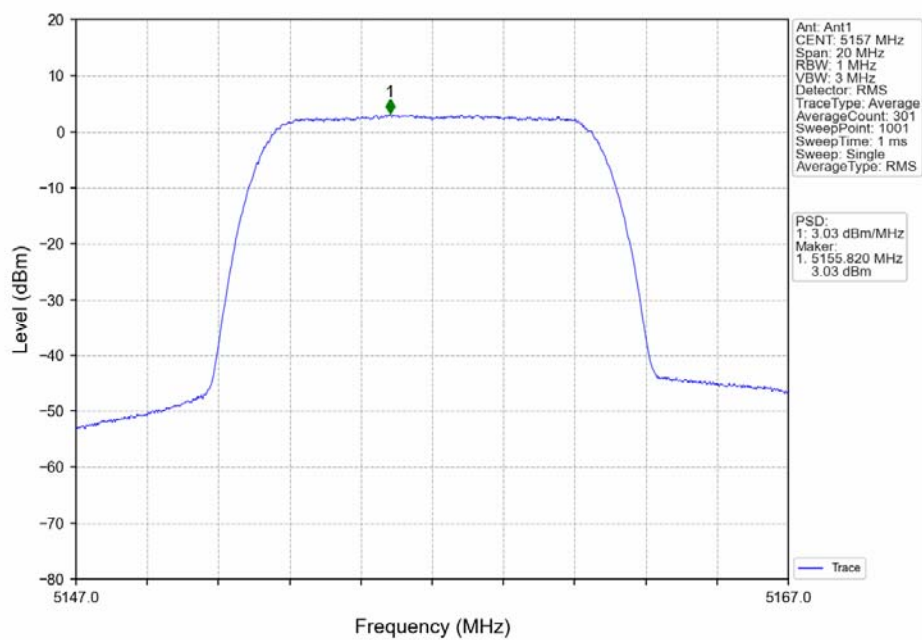
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QPSK 10MHz_HCH_5243MHz_MIMO_NTNV



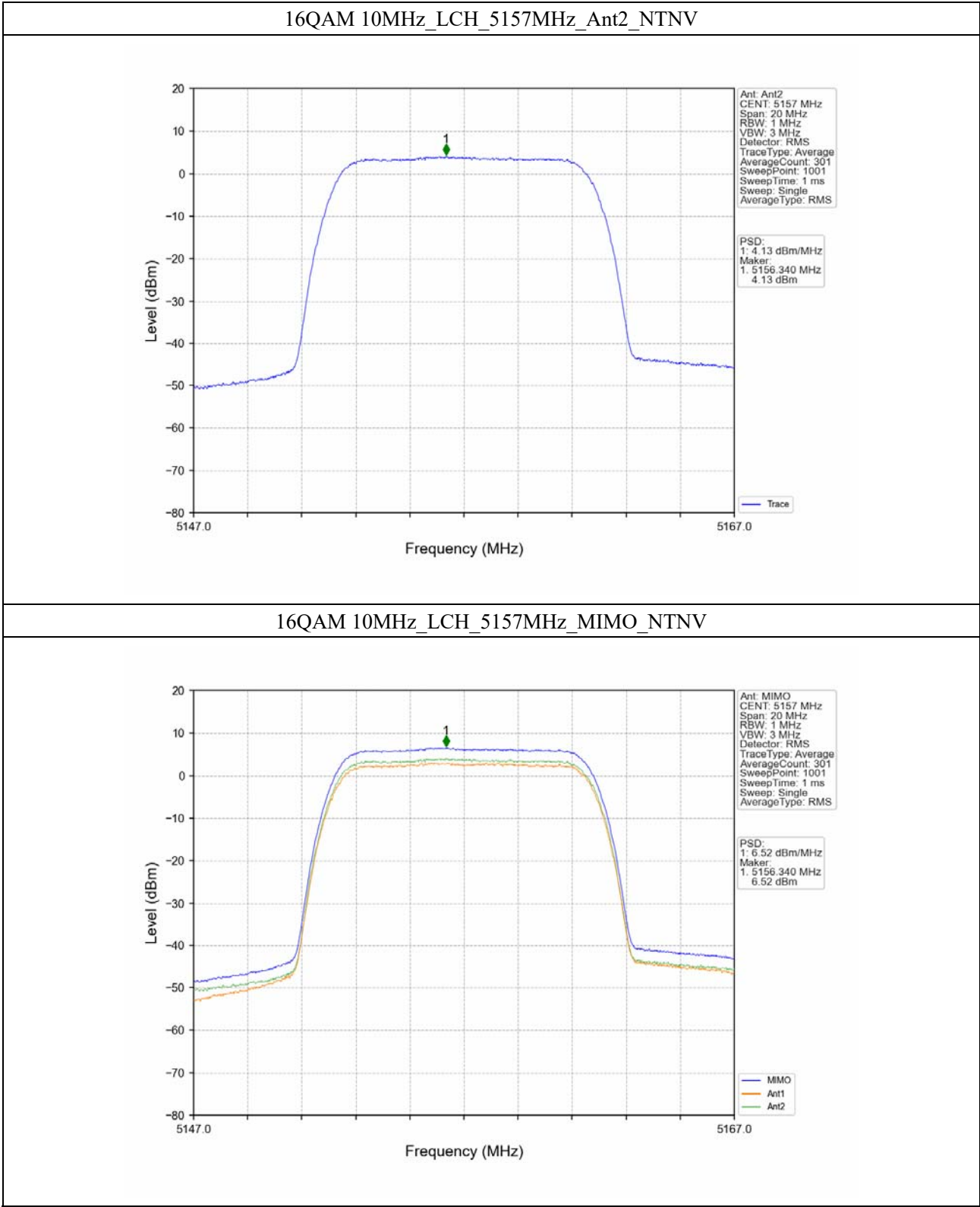
16QAM 10MHz_LCH_5157MHz_Ant1_NTNV



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16QAM 10MHz_LCH_5157MHz_MIMO_NTNV

Ant: MIMO
CENT: 5157 MHz
Span: 20 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMSPSD:
1: 6.52 dBm/MHz
Marker:
1: 5156.340 MHz
6.52 dBm

Level (dBm)

Frequency (MHz)

MIMO
Ant1
Ant2

1

5147.0

5167.0

20

10

0

-10

-20

-30

-40

-50

-60

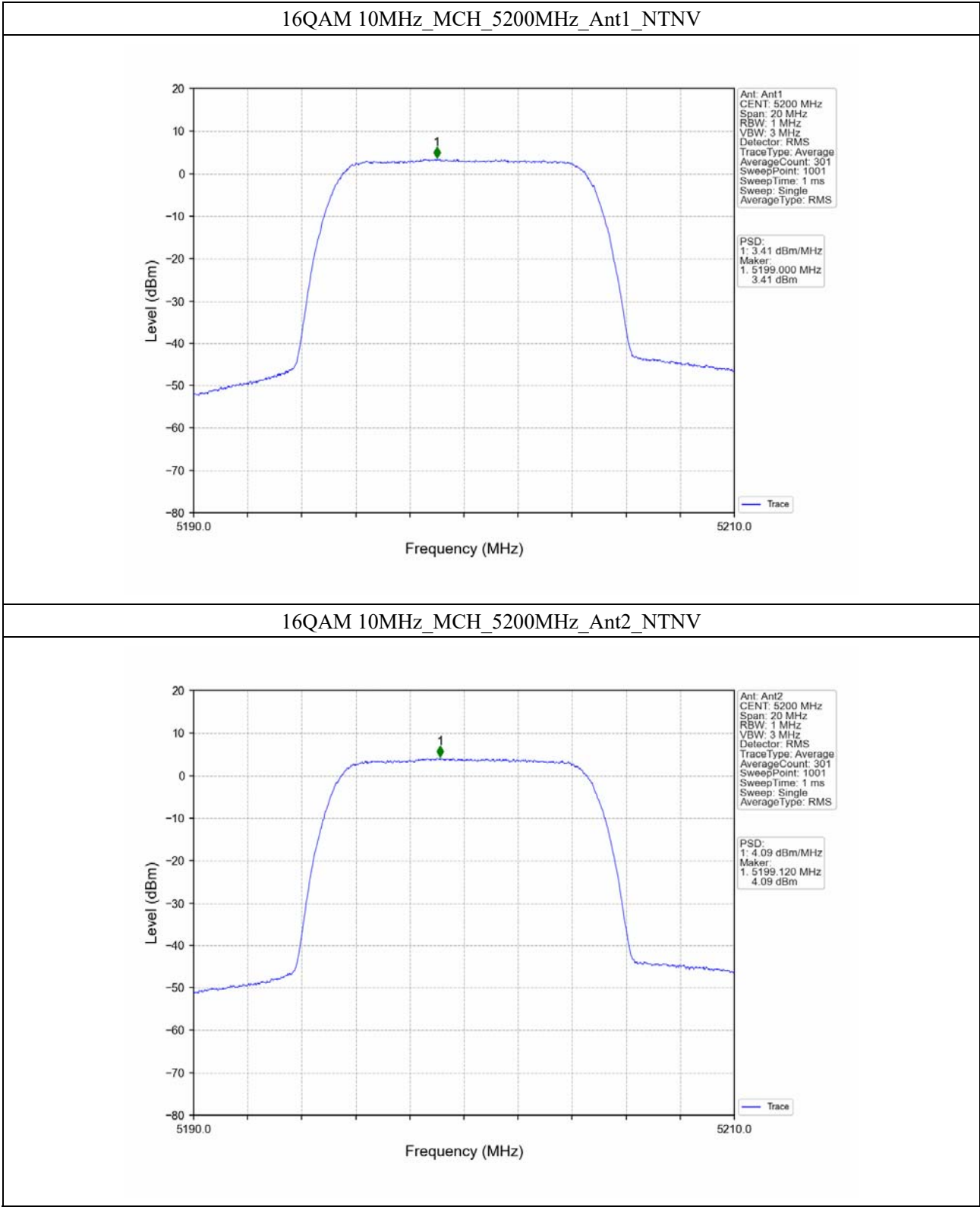
-70

-80

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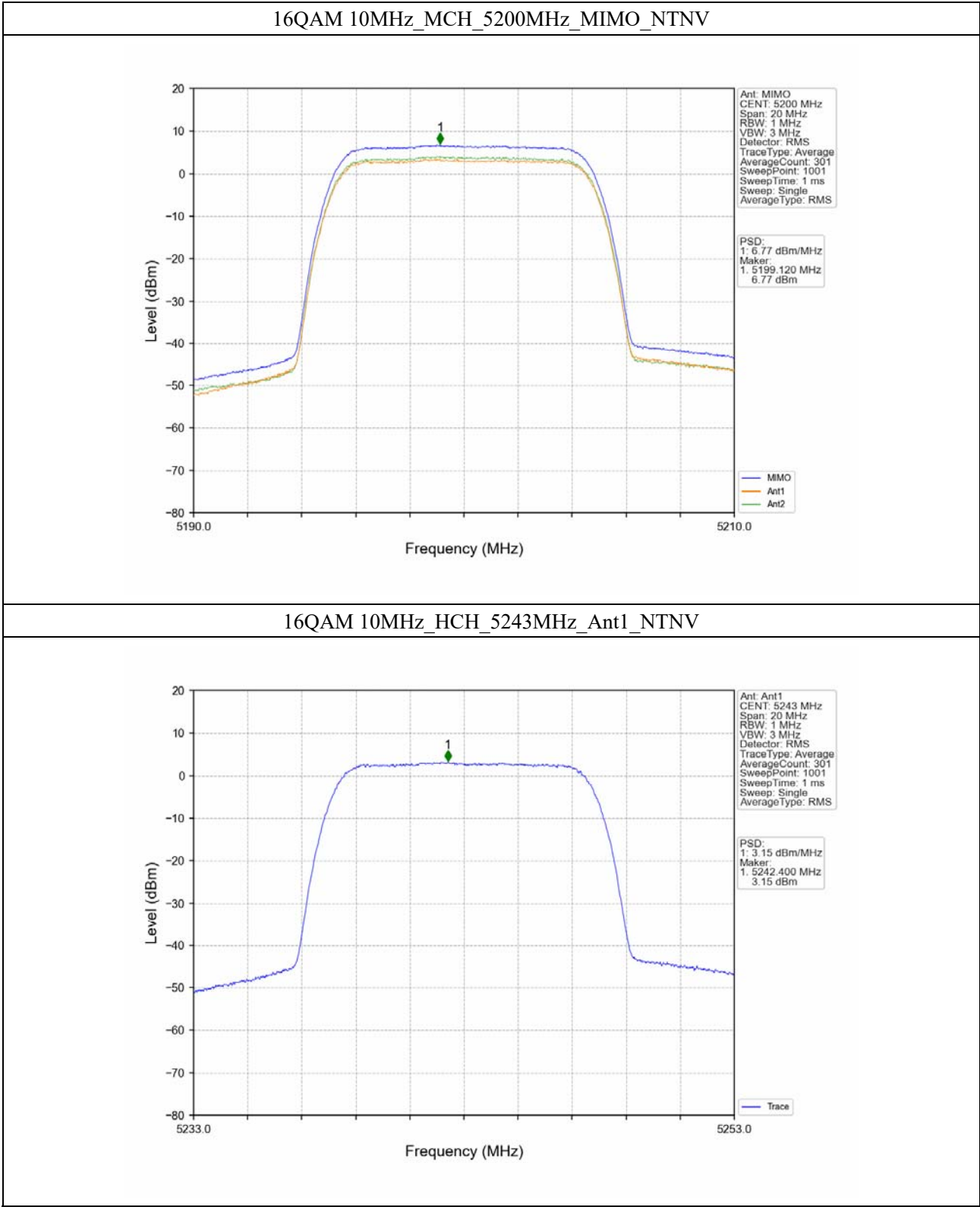
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16QAM 10MHz_HCH_5243MHz_Ant1_NTNV

Ant: Ant1
CENT: 5243 MHz
Span: 20 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 301
SweepPoint: 1001
SweepTime: 1 ms
Sweep: Single
AverageType: RMSPSD:
1: 3.15 dBm/MHz
Maker:
1: 5242.400 MHz
3.15 dBm

Level (dBm)

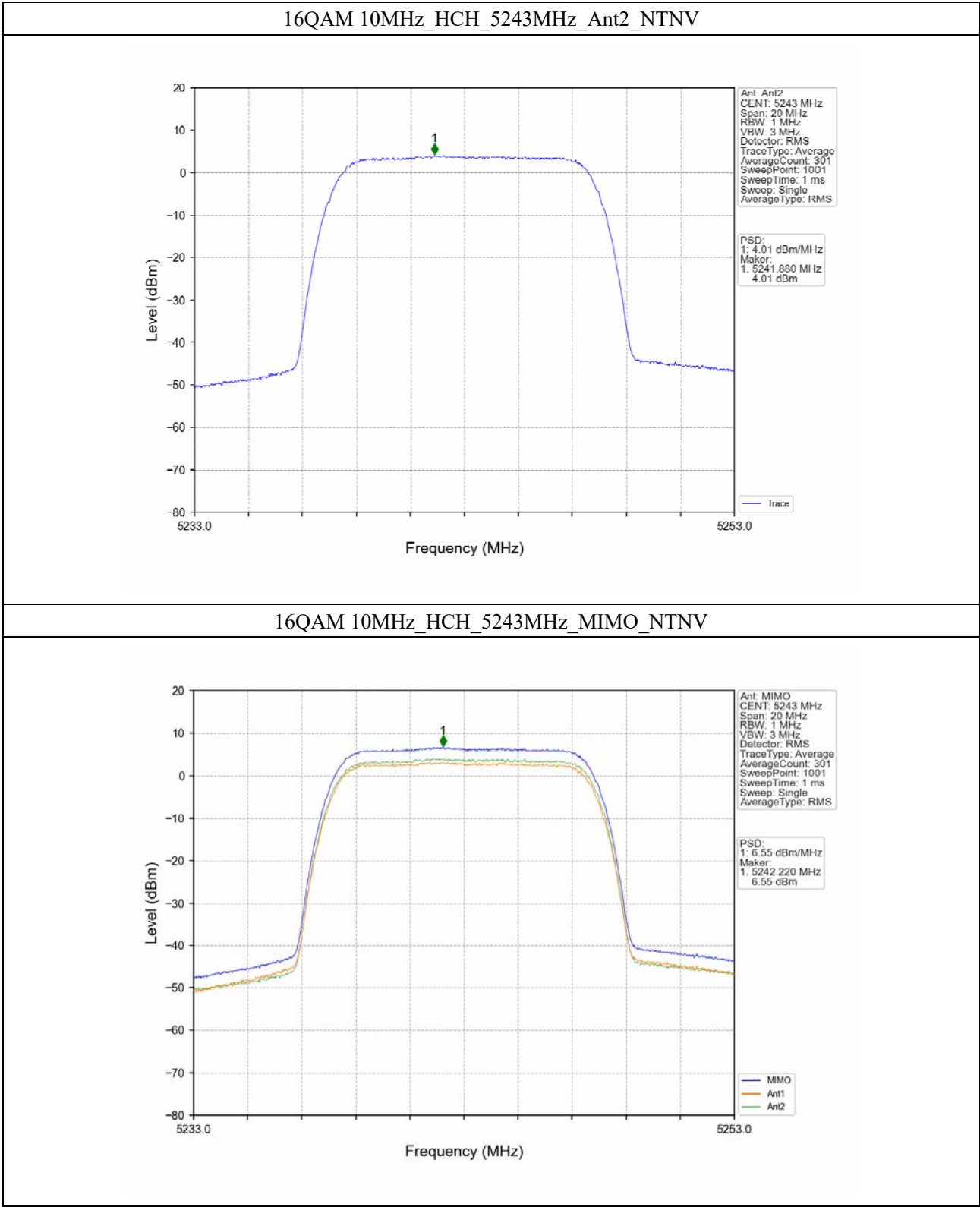
Frequency (MHz)

Trace

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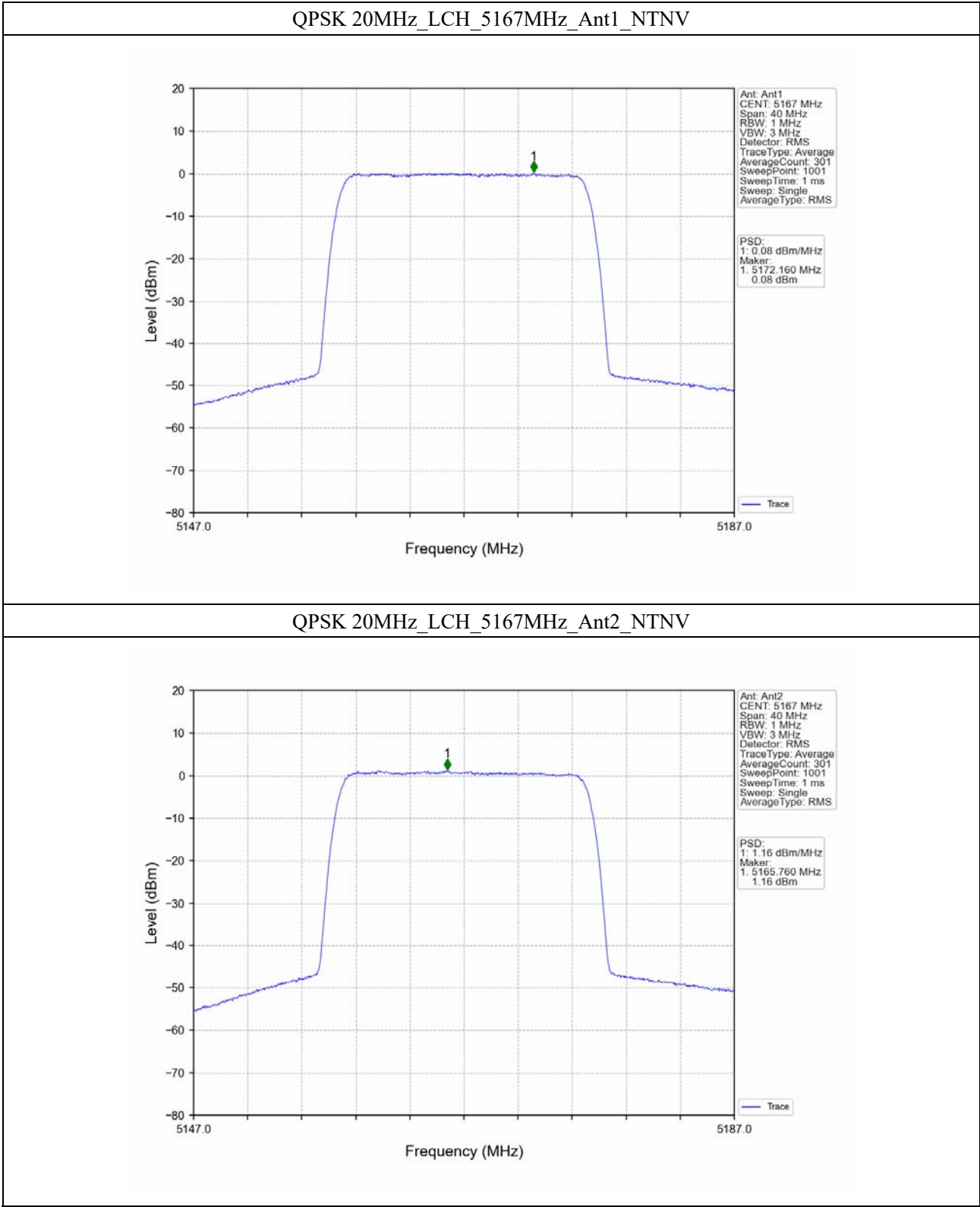
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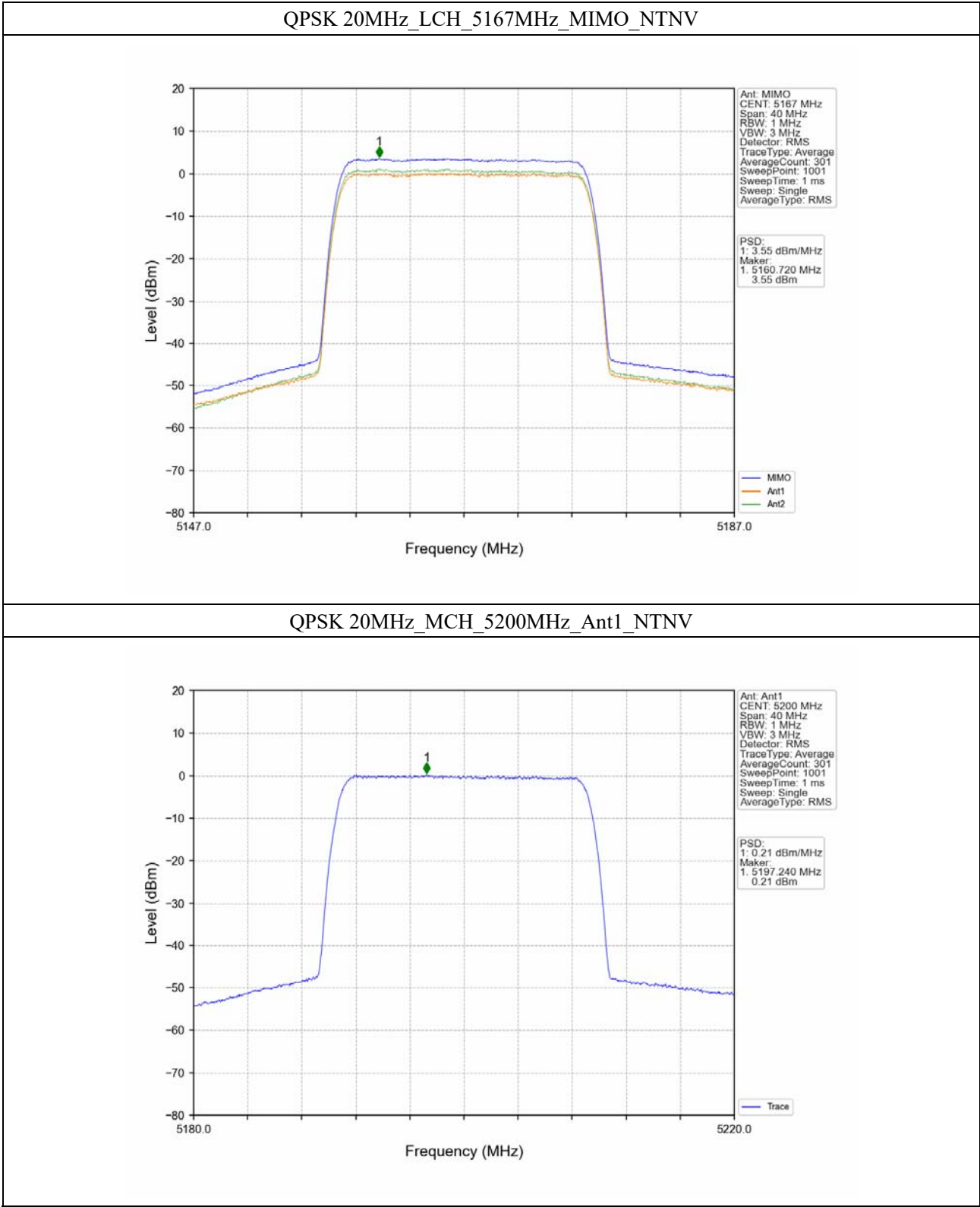
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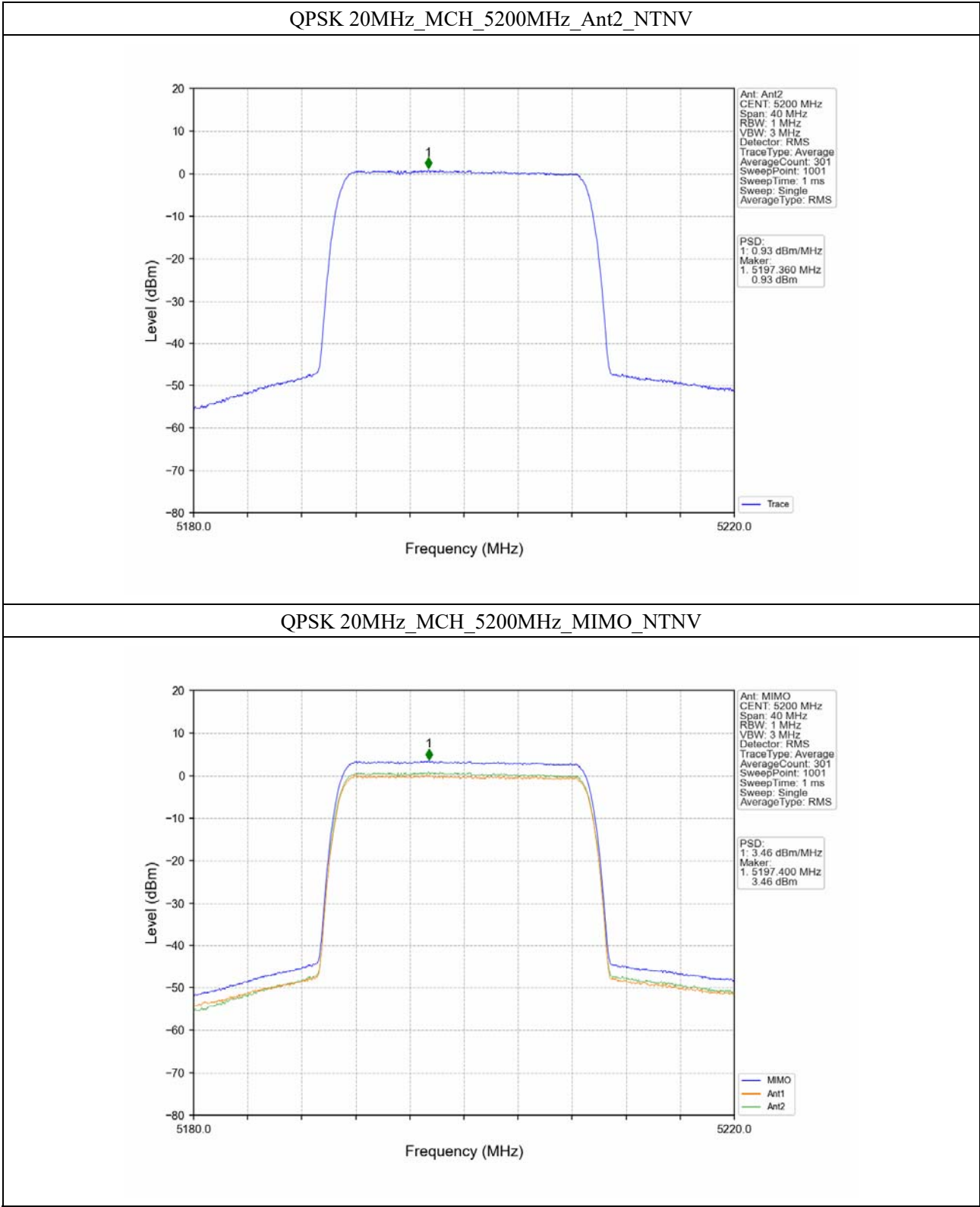
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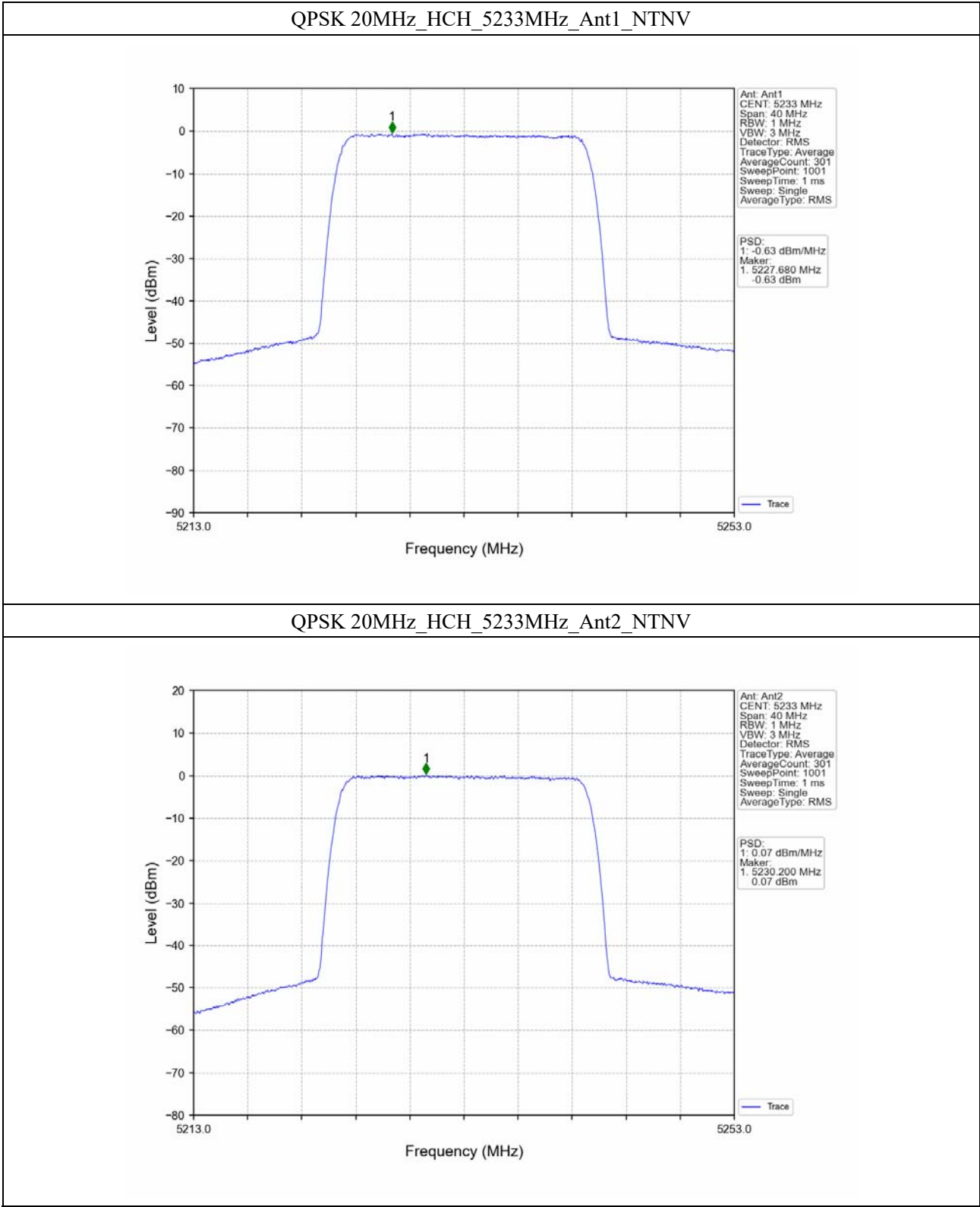
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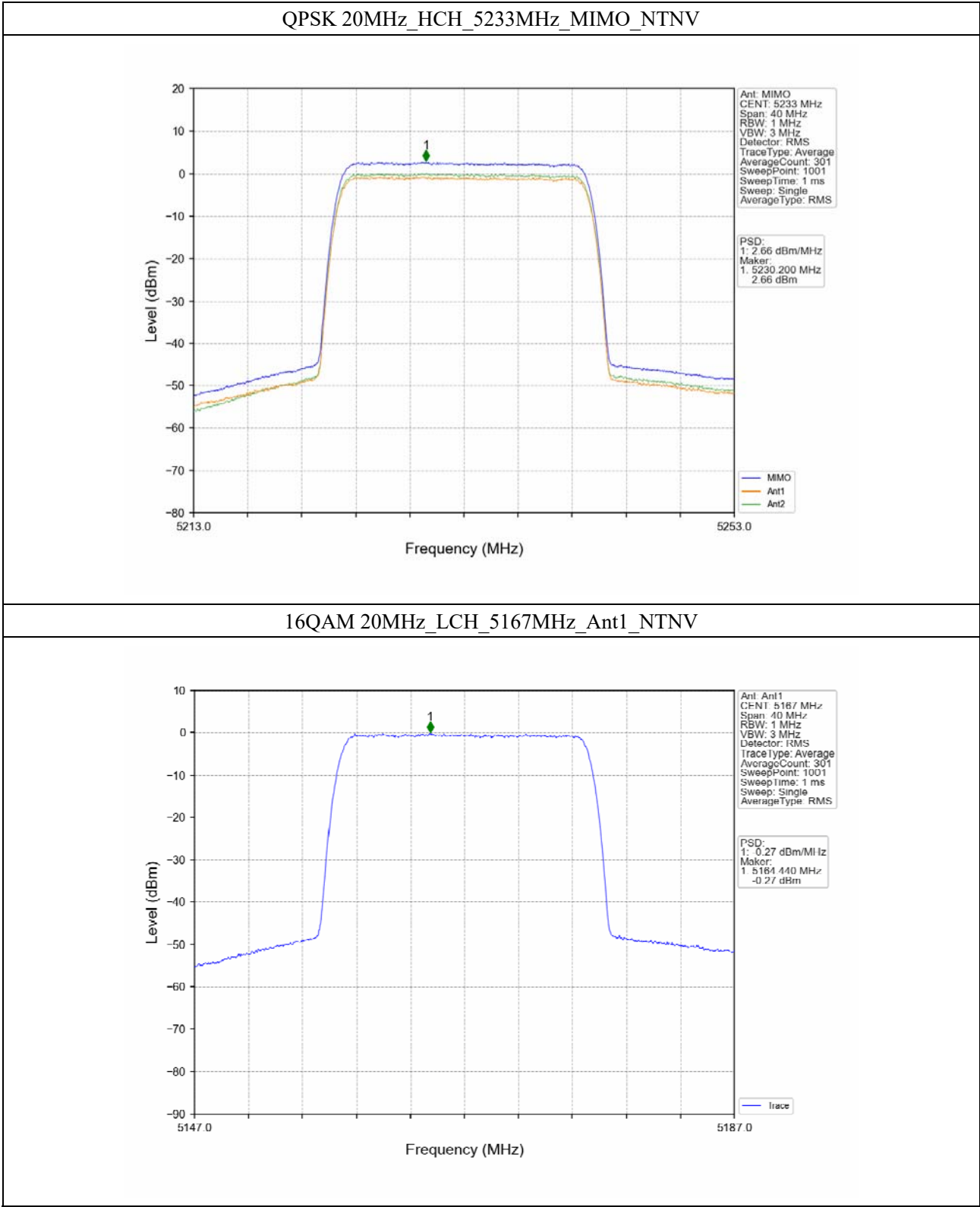
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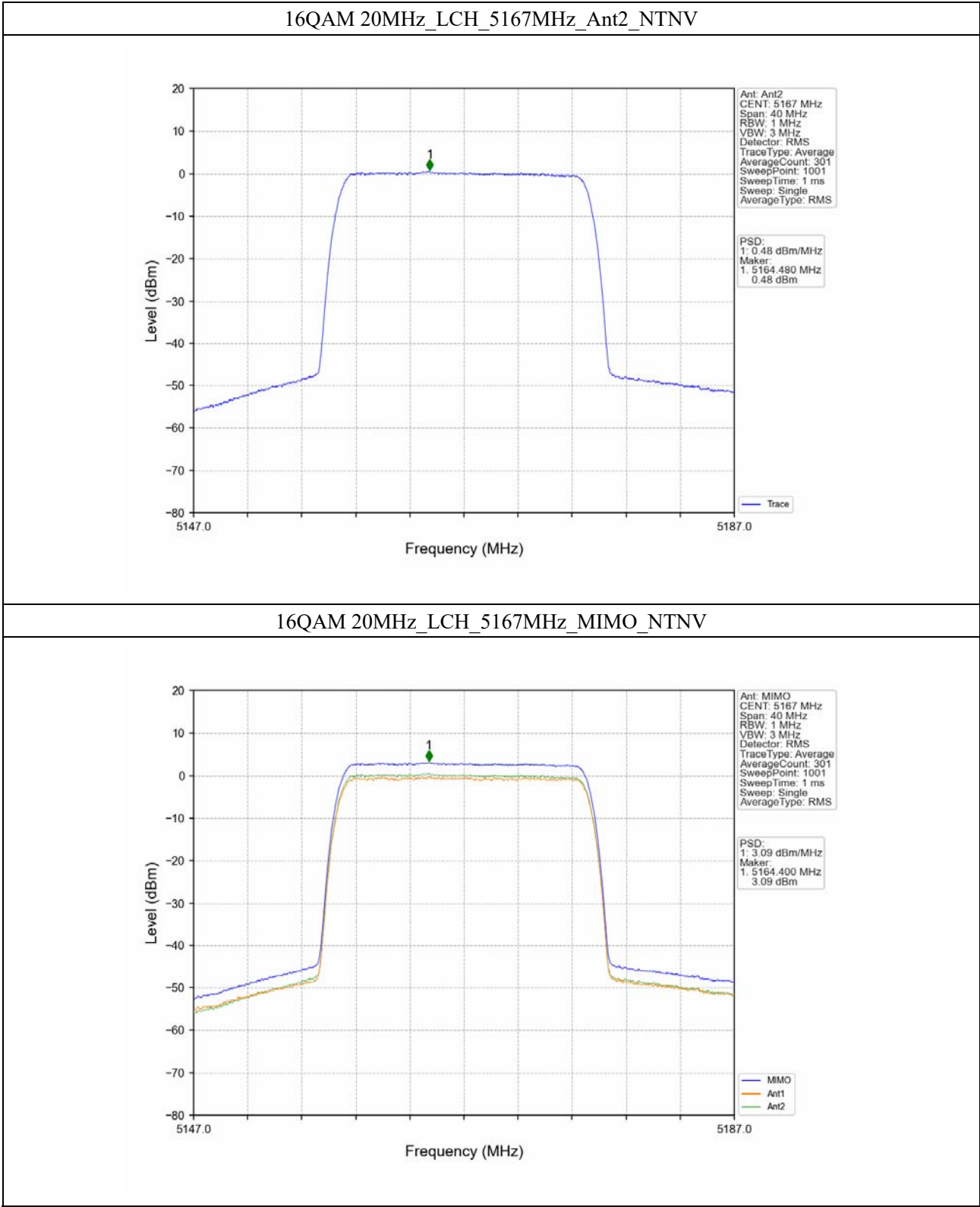
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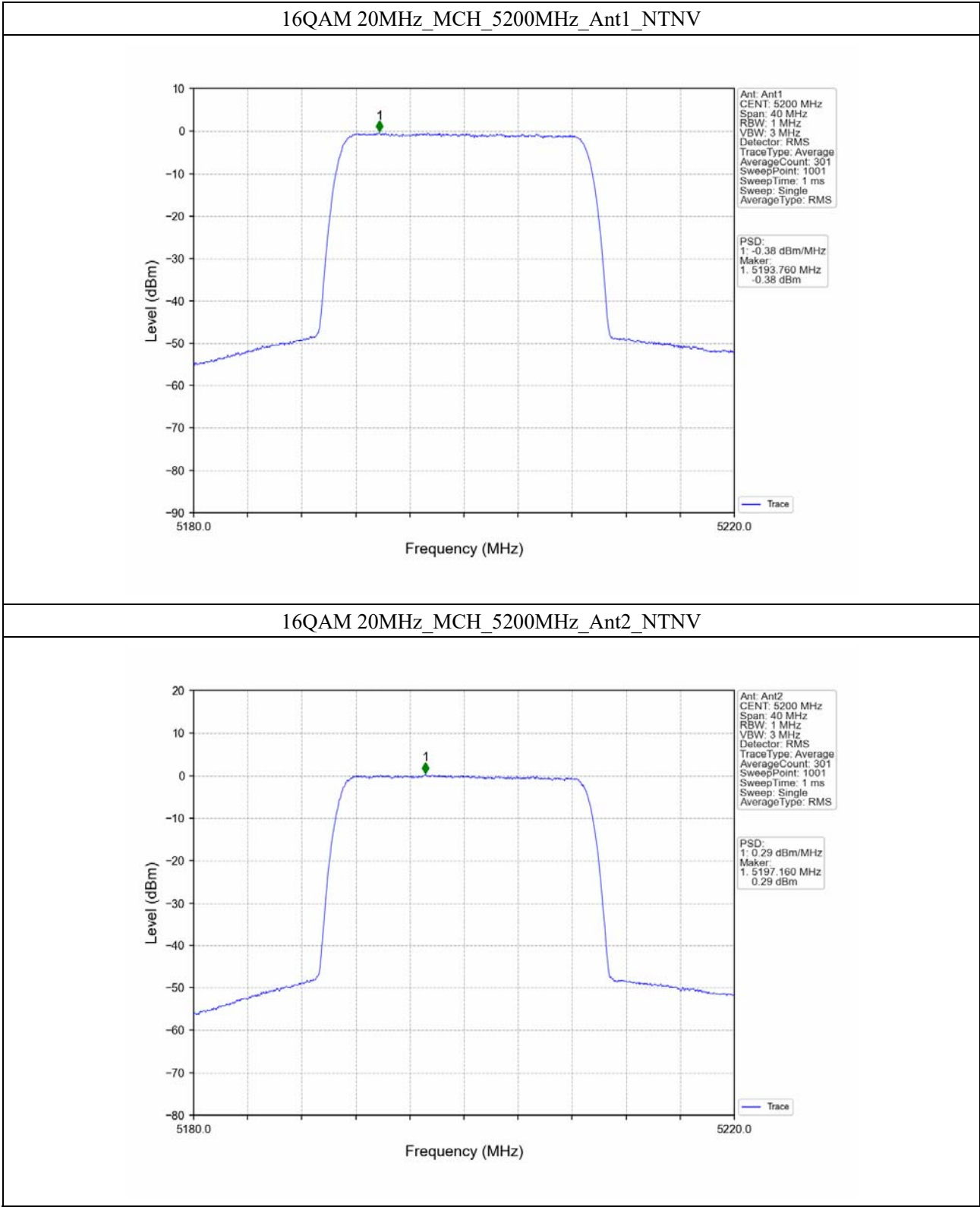
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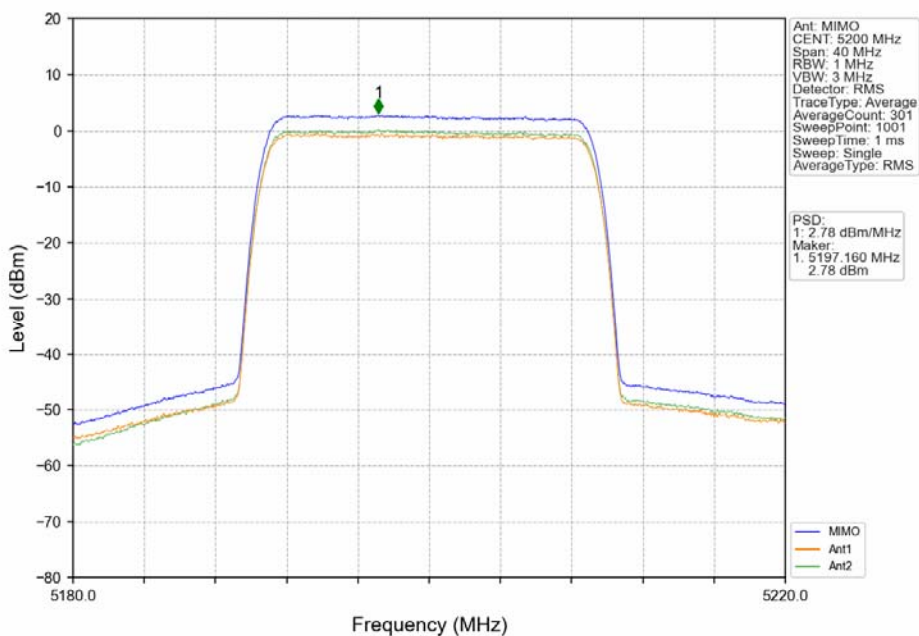
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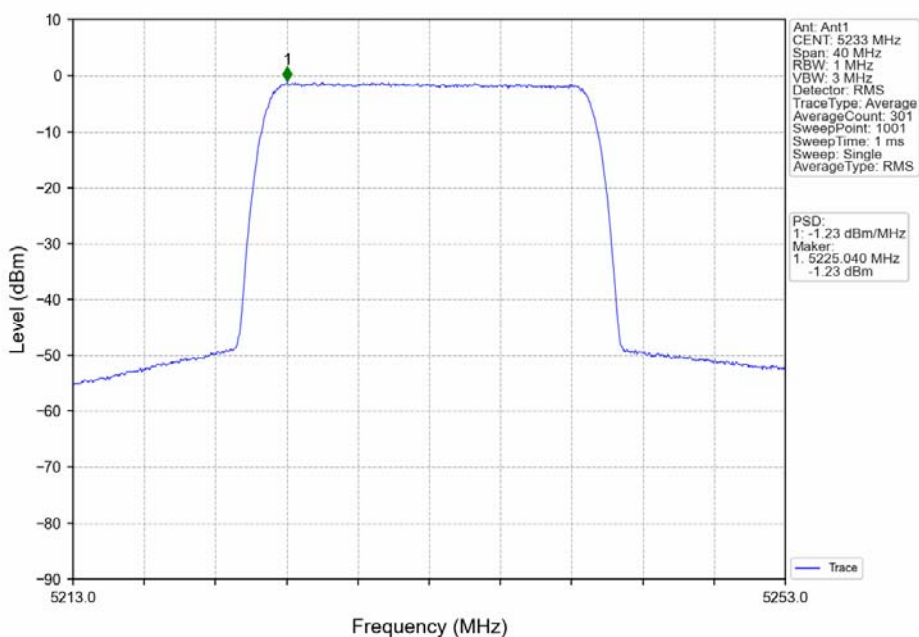
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16QAM 20MHz_MCH_5200MHz_MIMO_NTNV



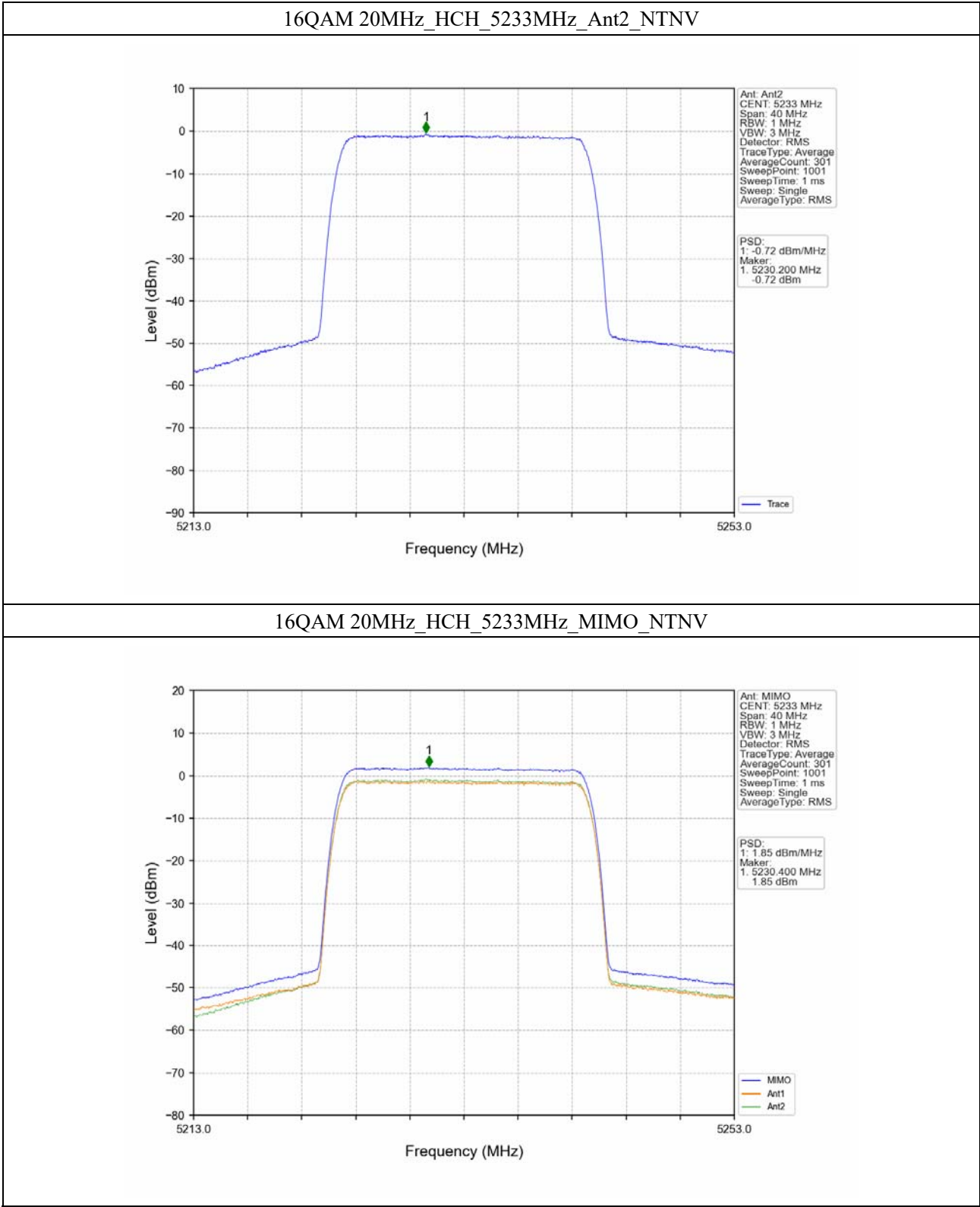
16QAM 20MHz_HCH_5233MHz_Ant1_NTNV



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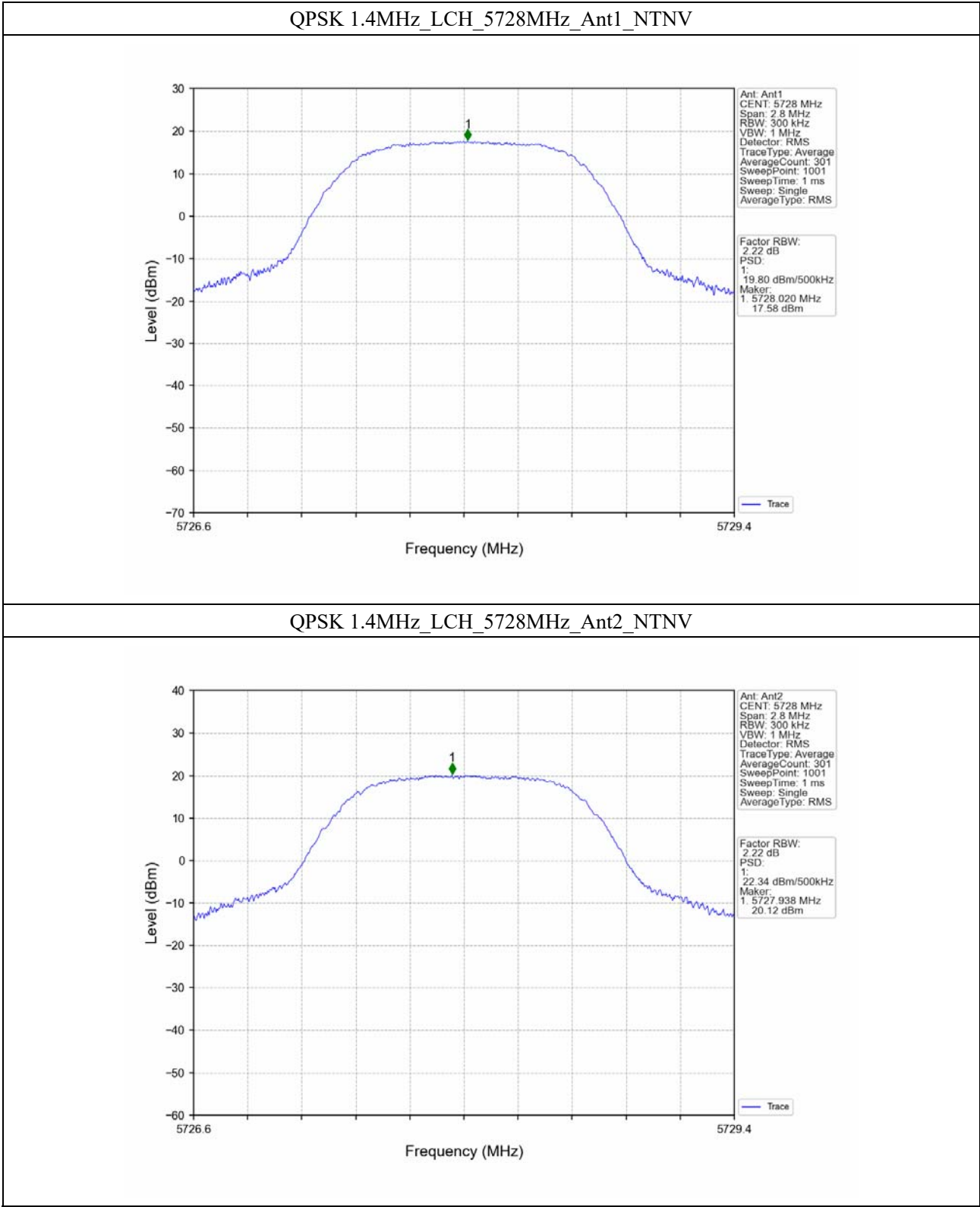
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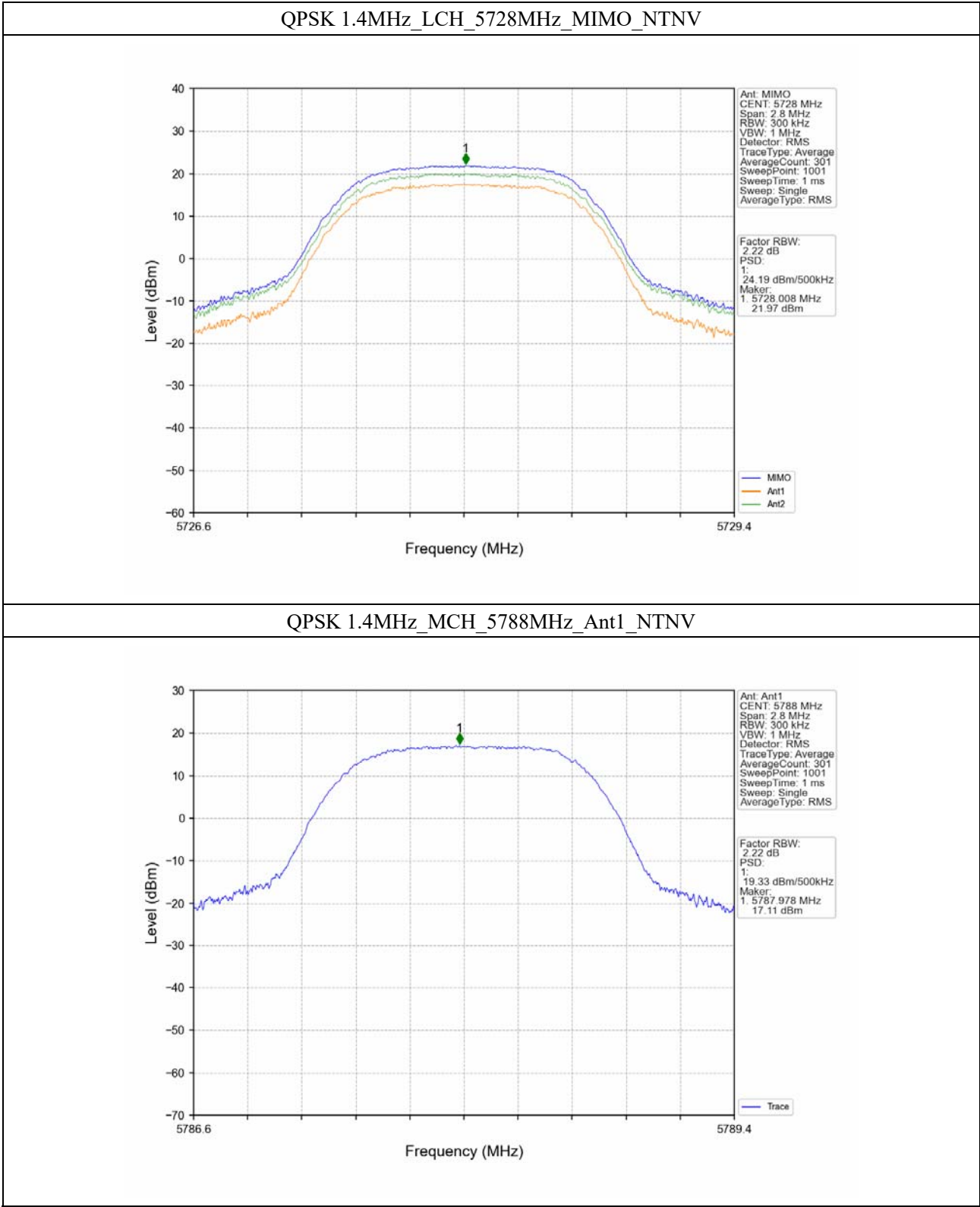
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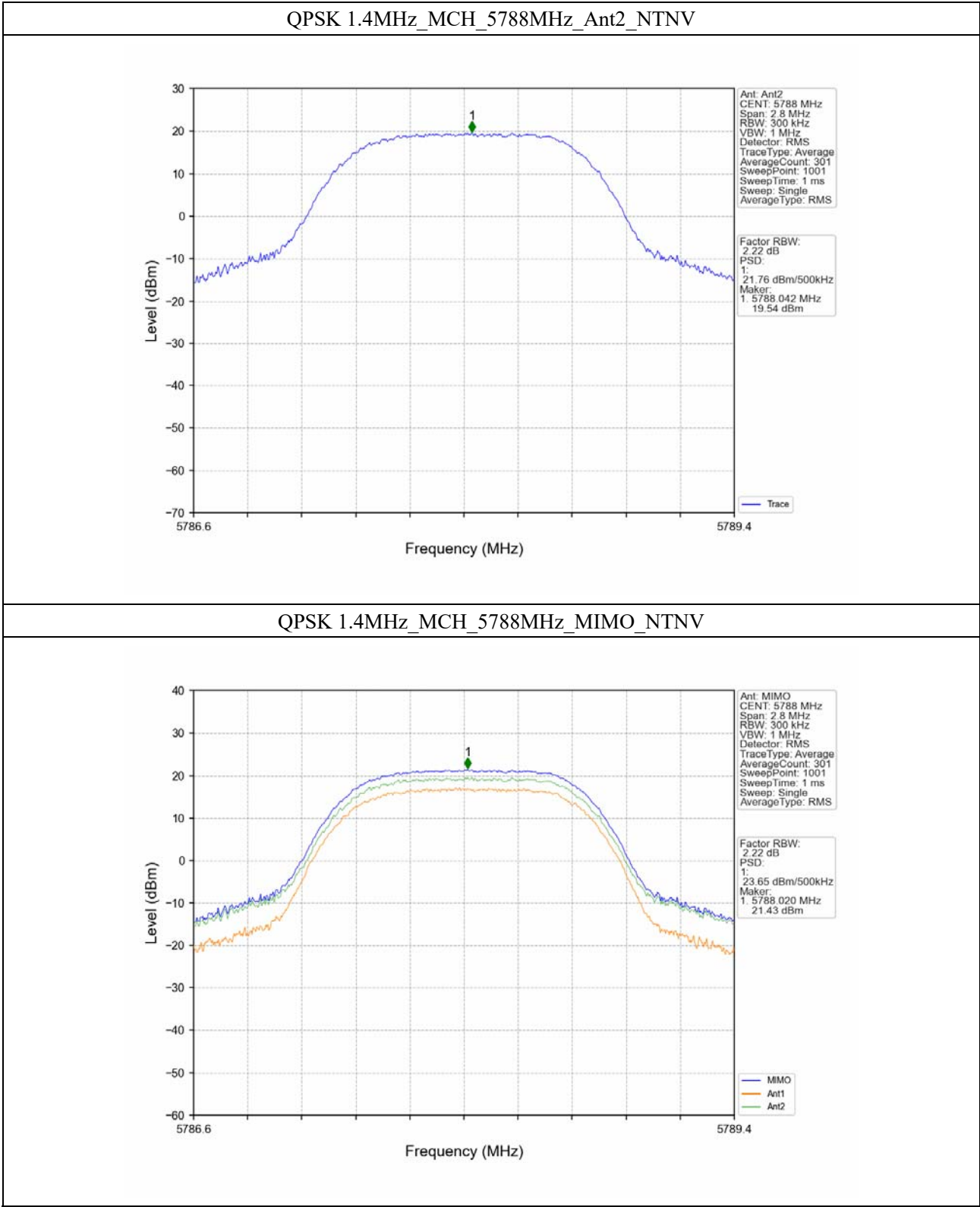
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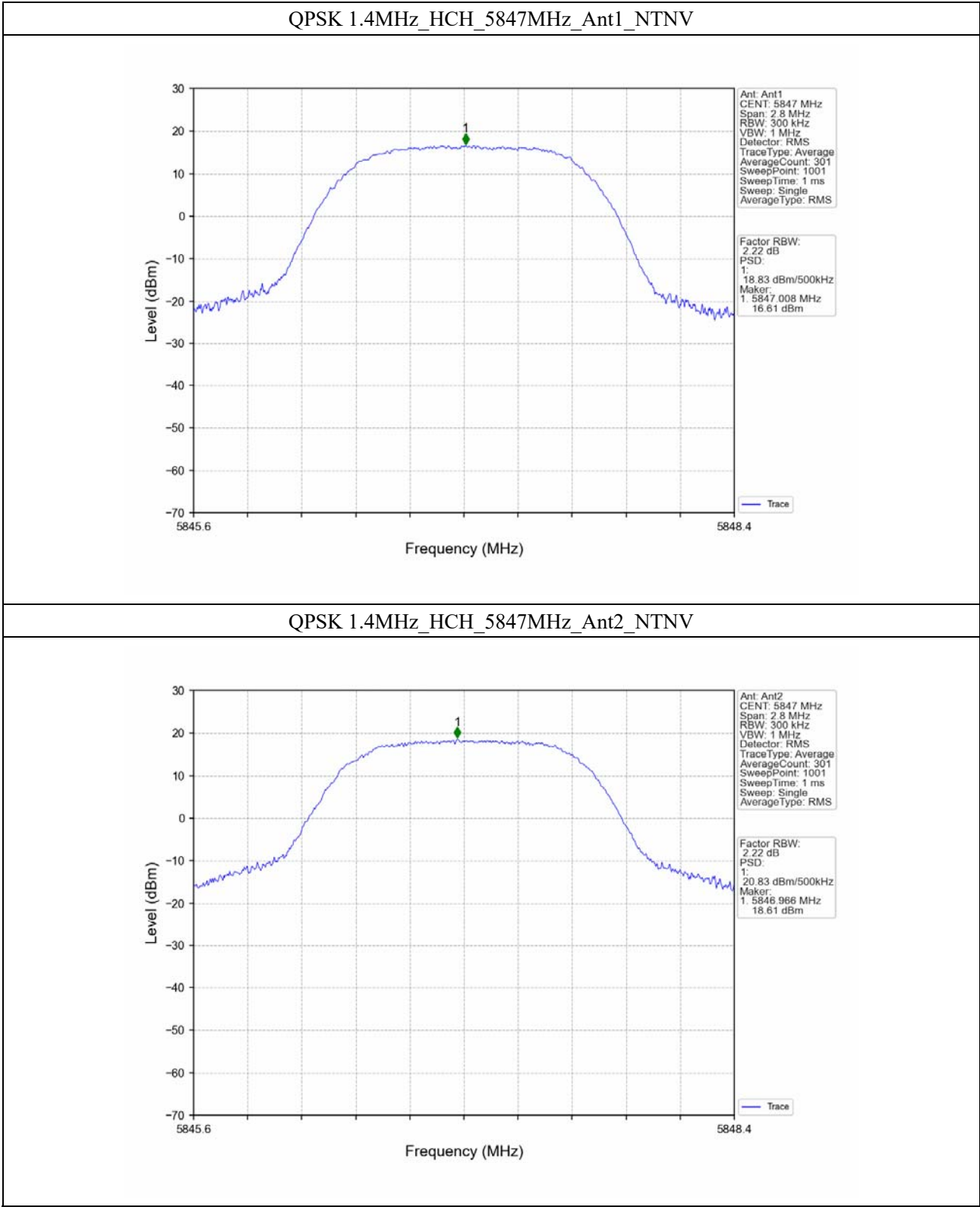
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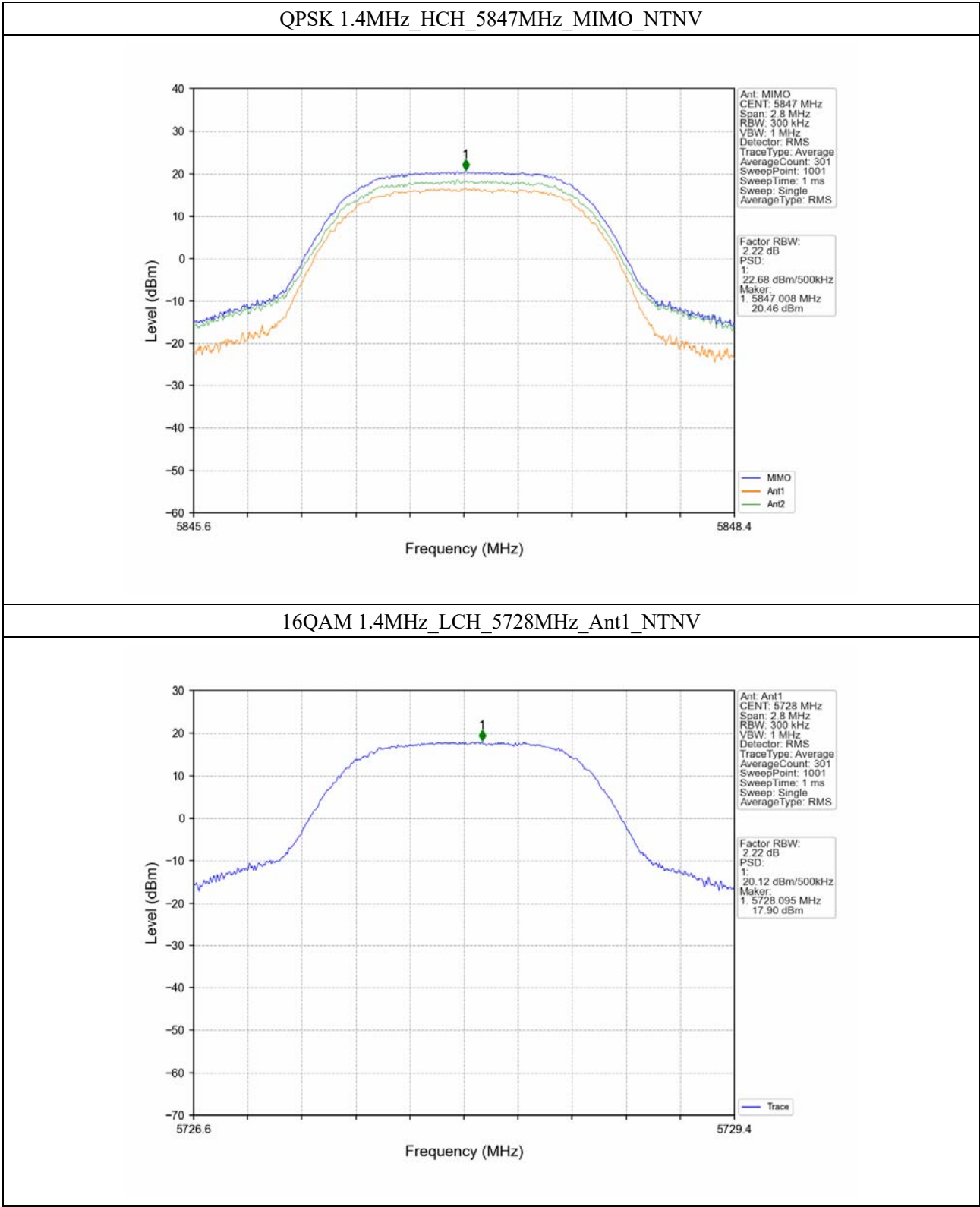
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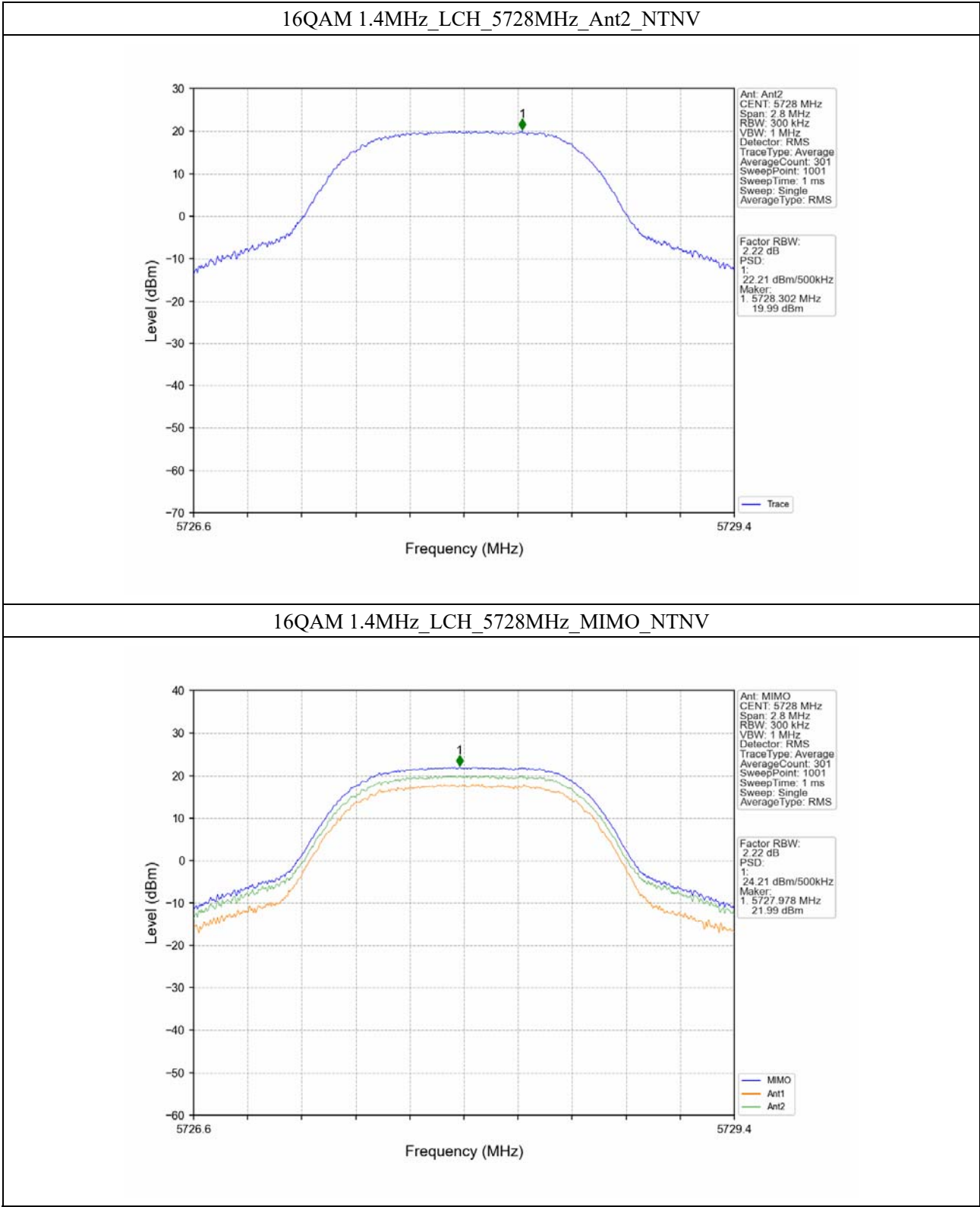
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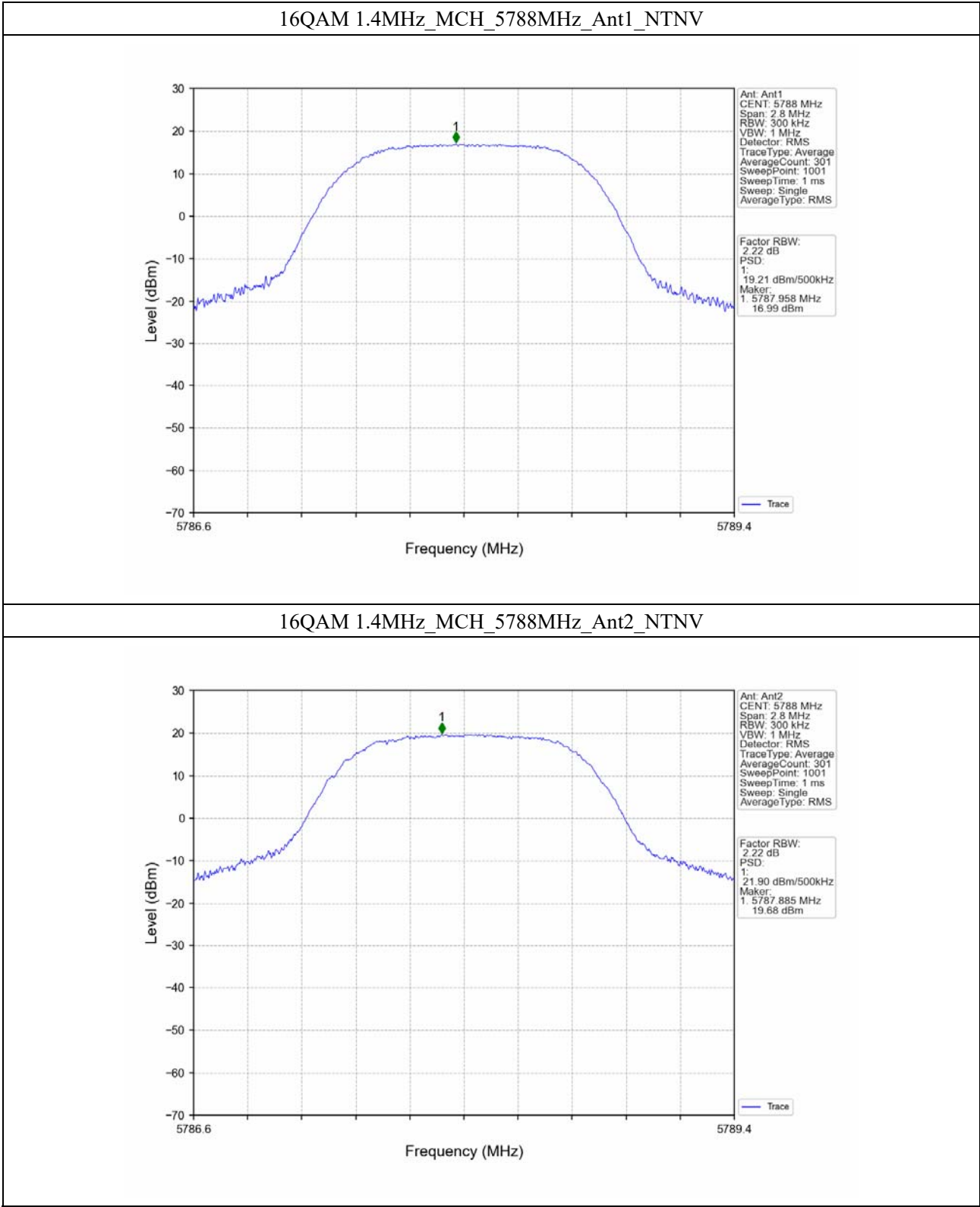
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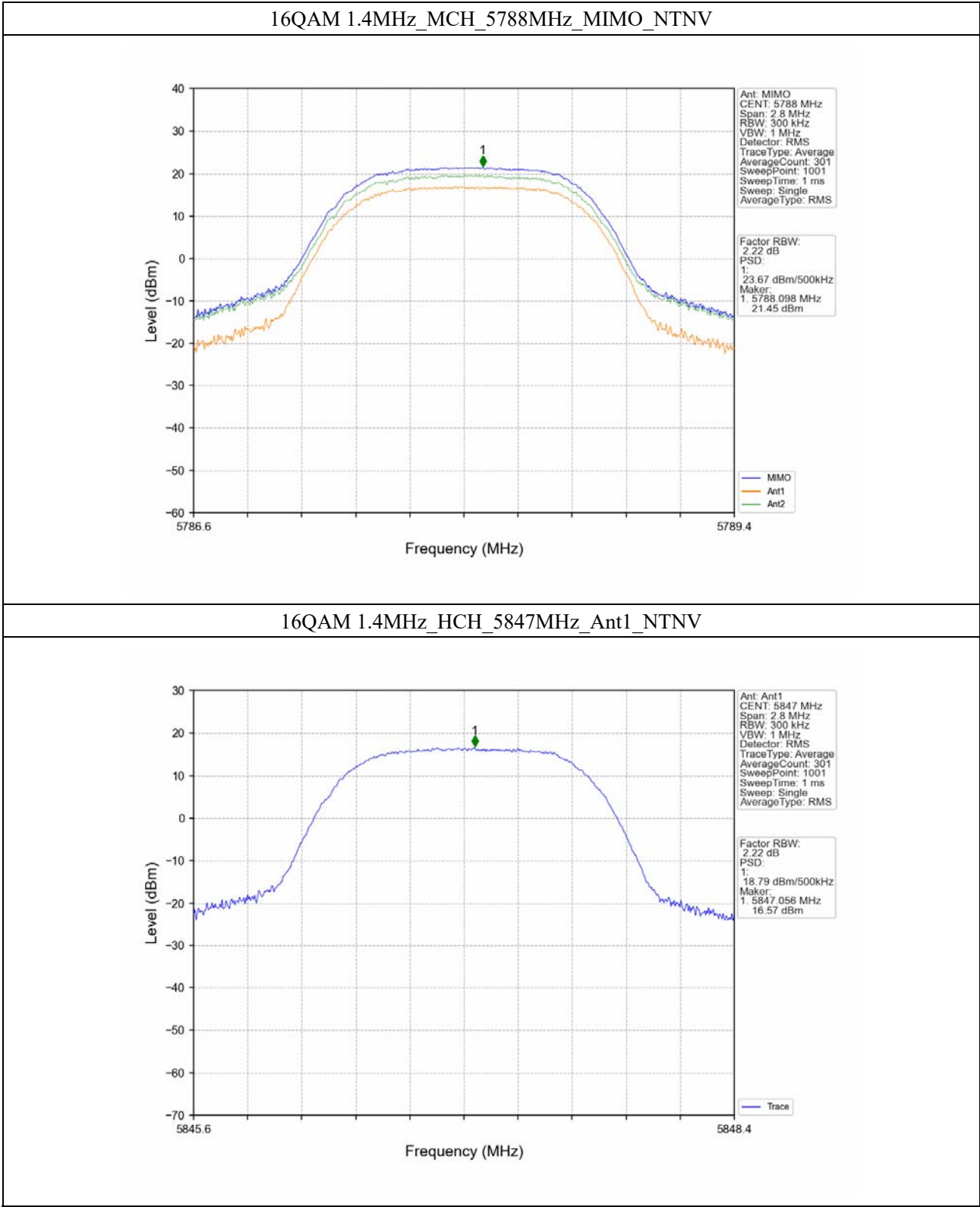
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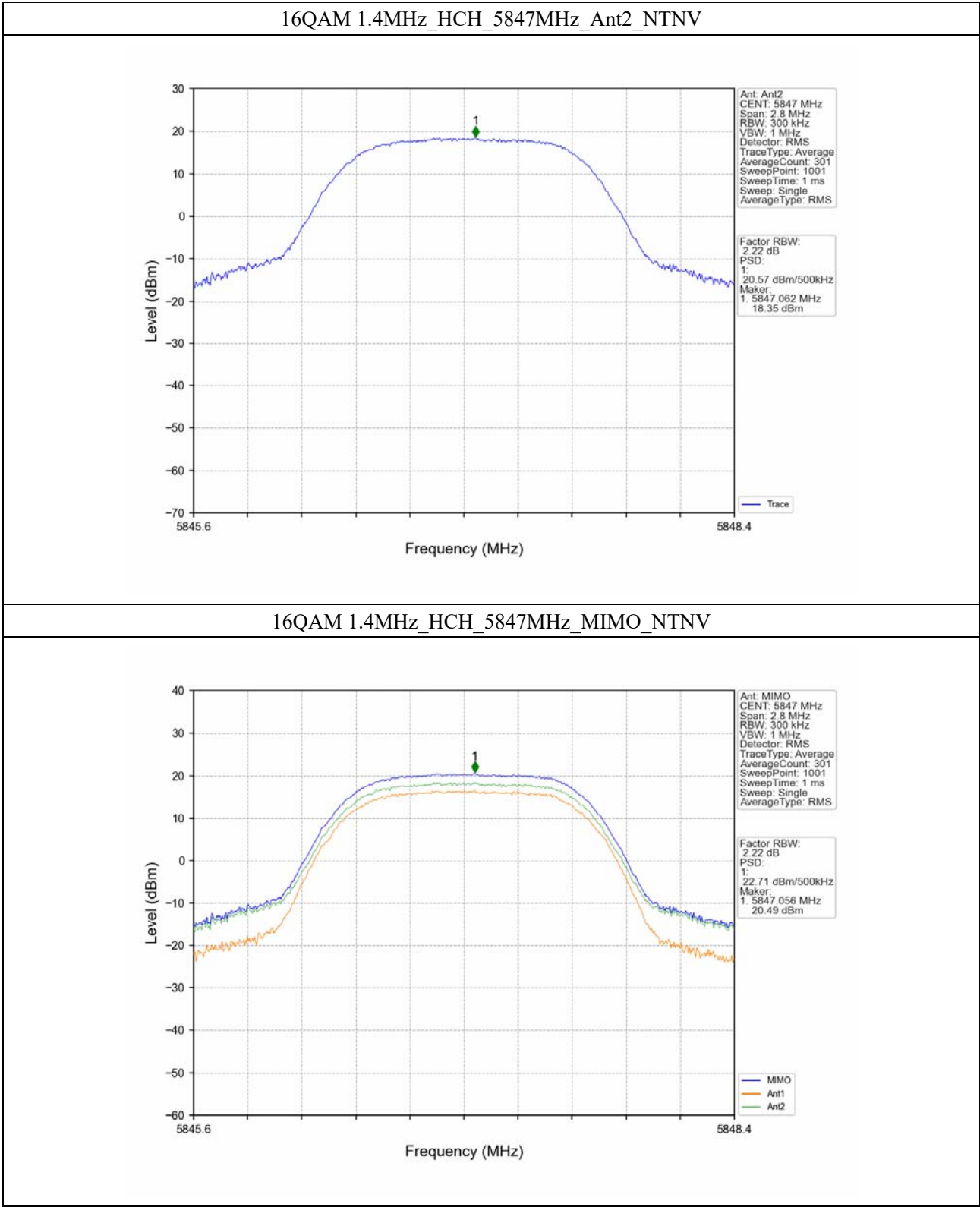
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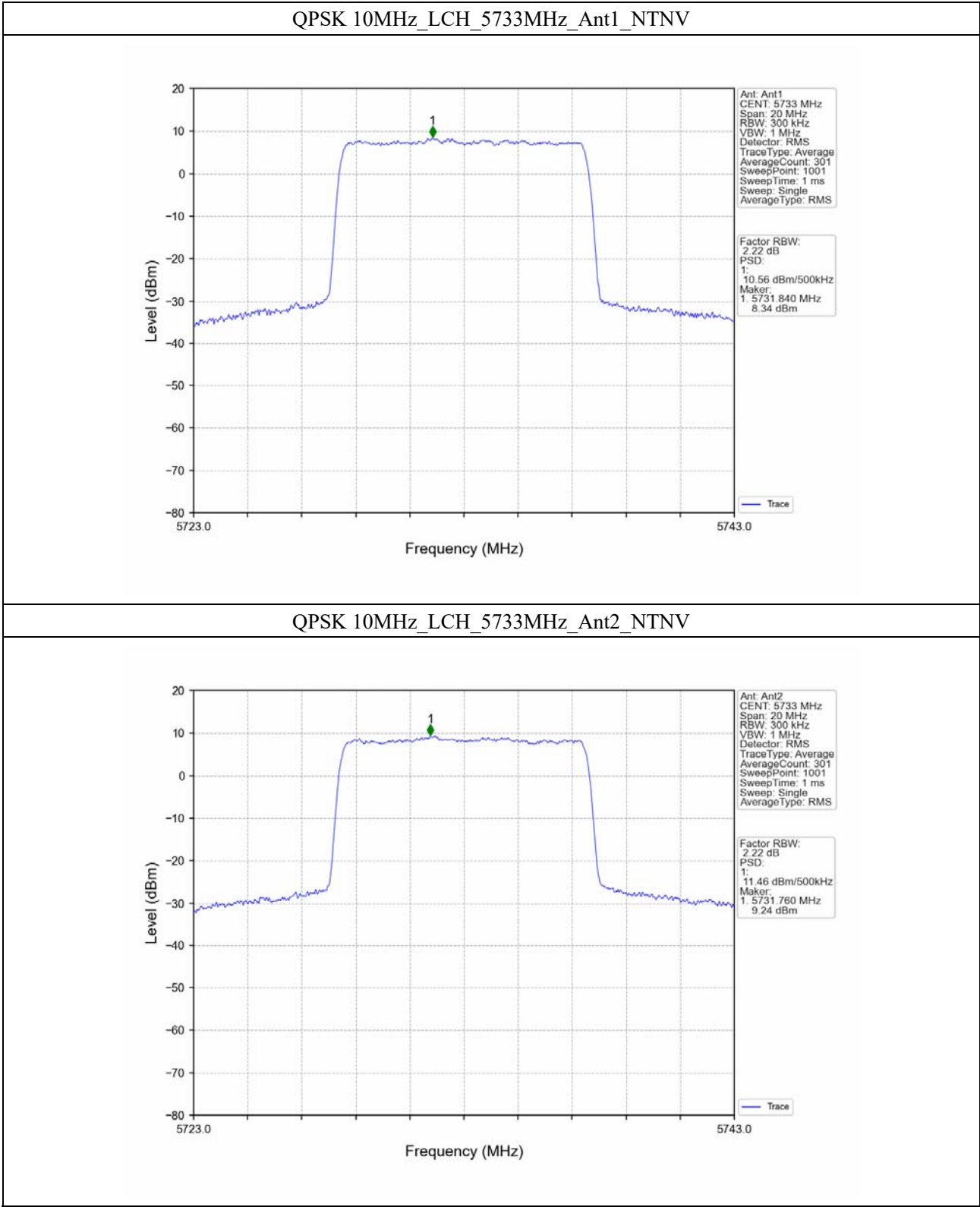
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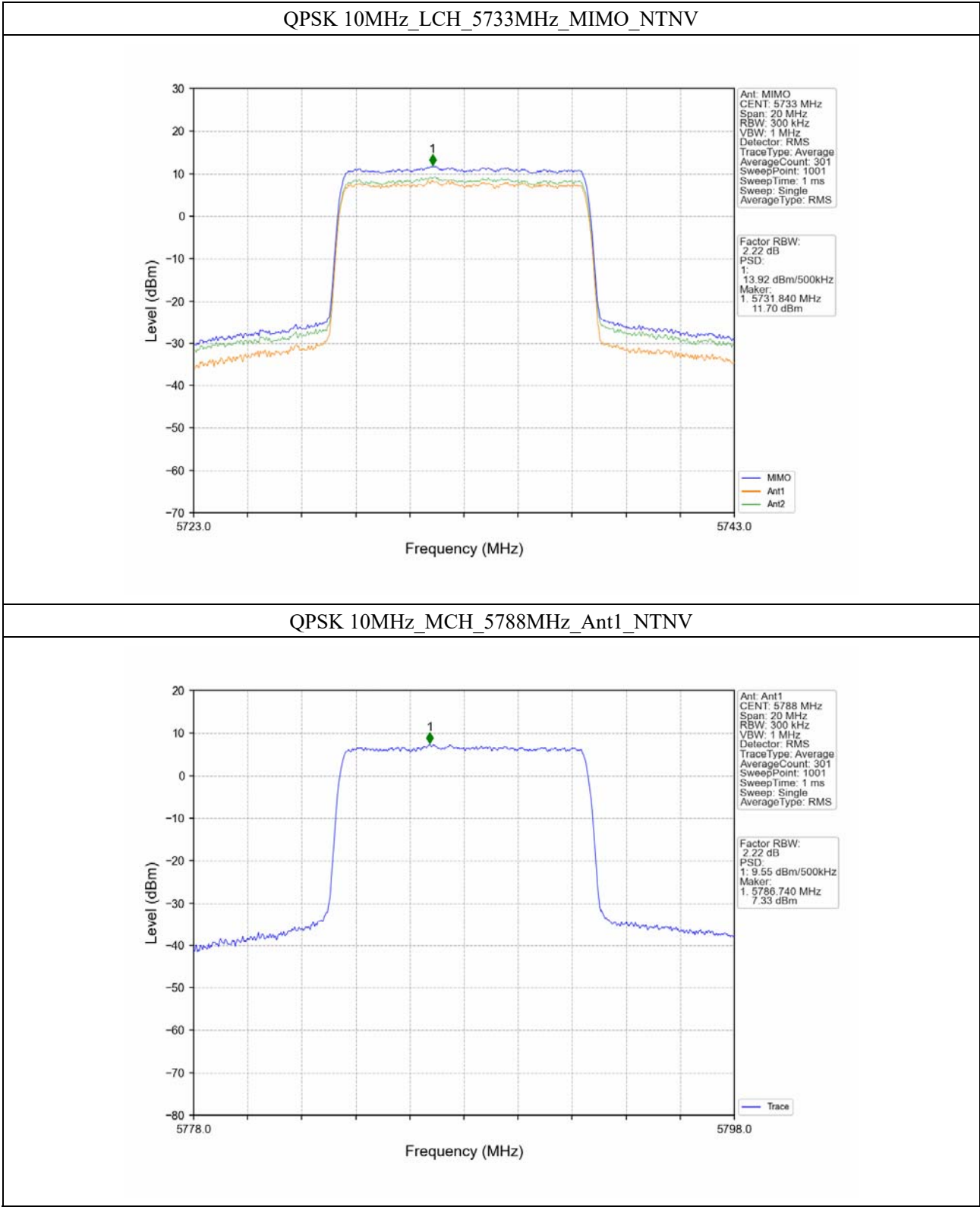
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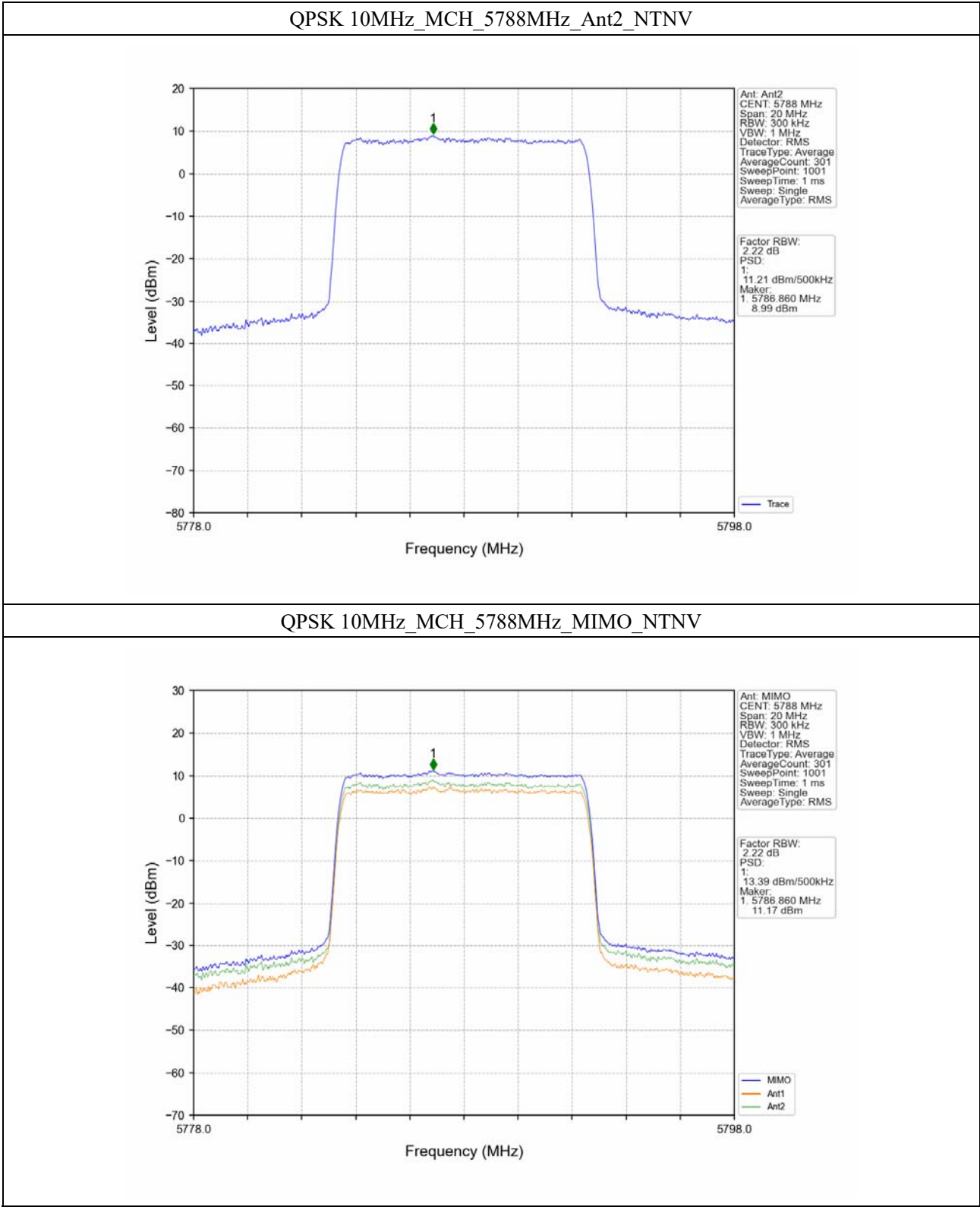
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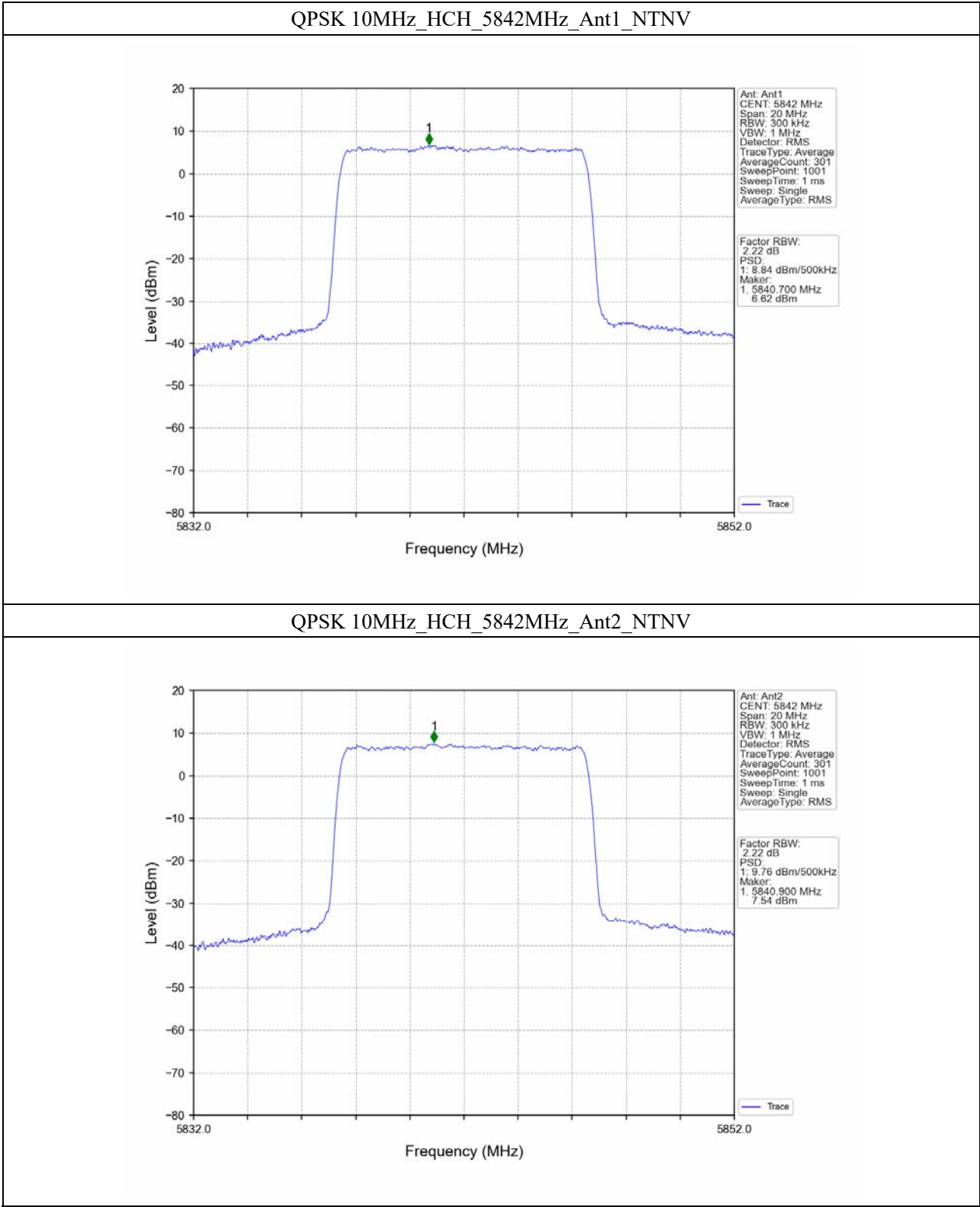
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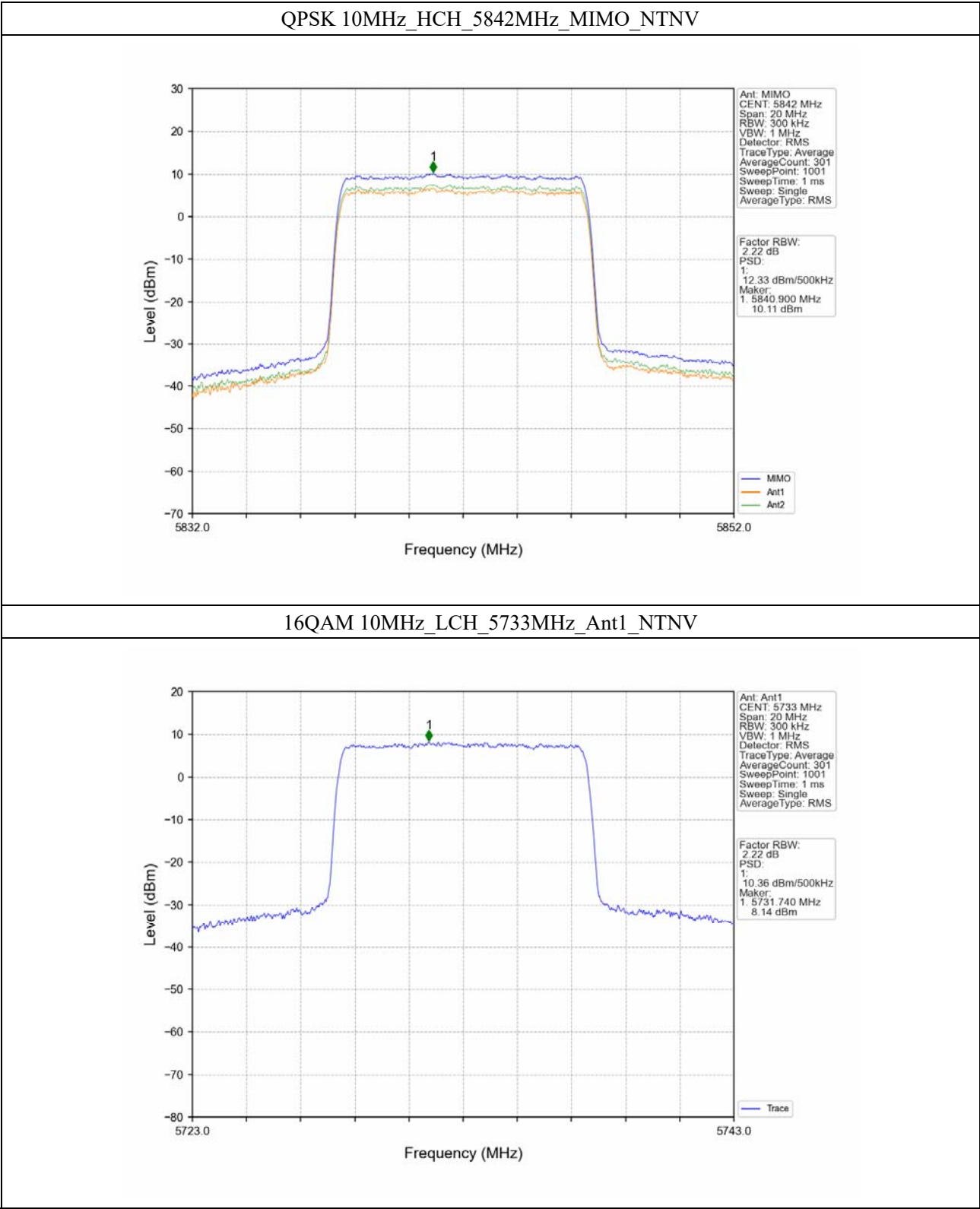
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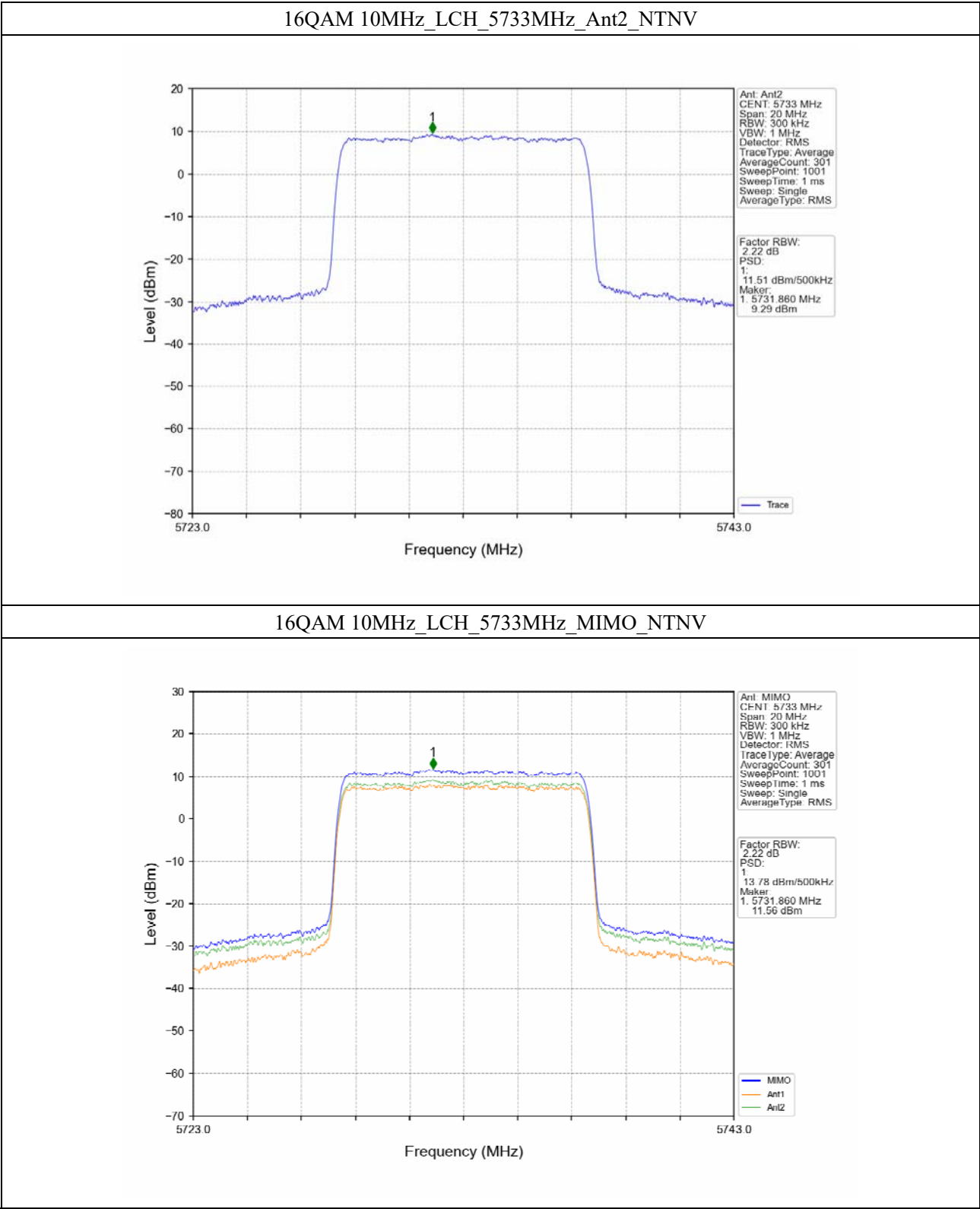
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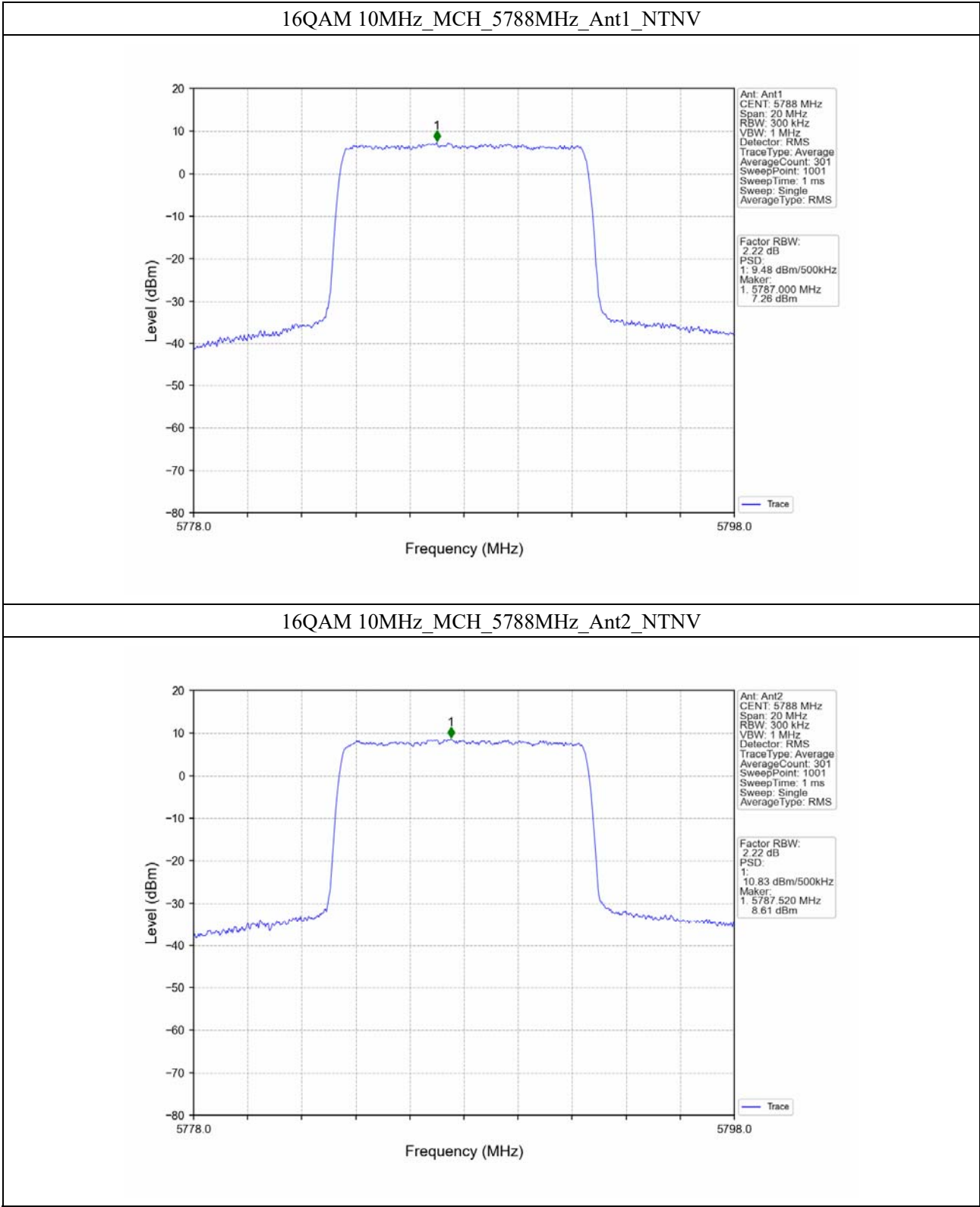
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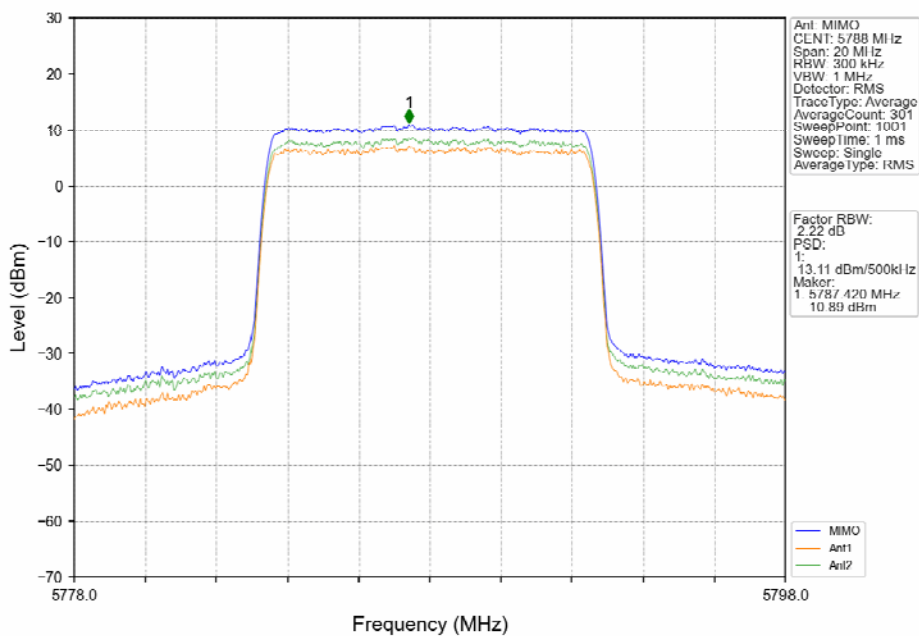
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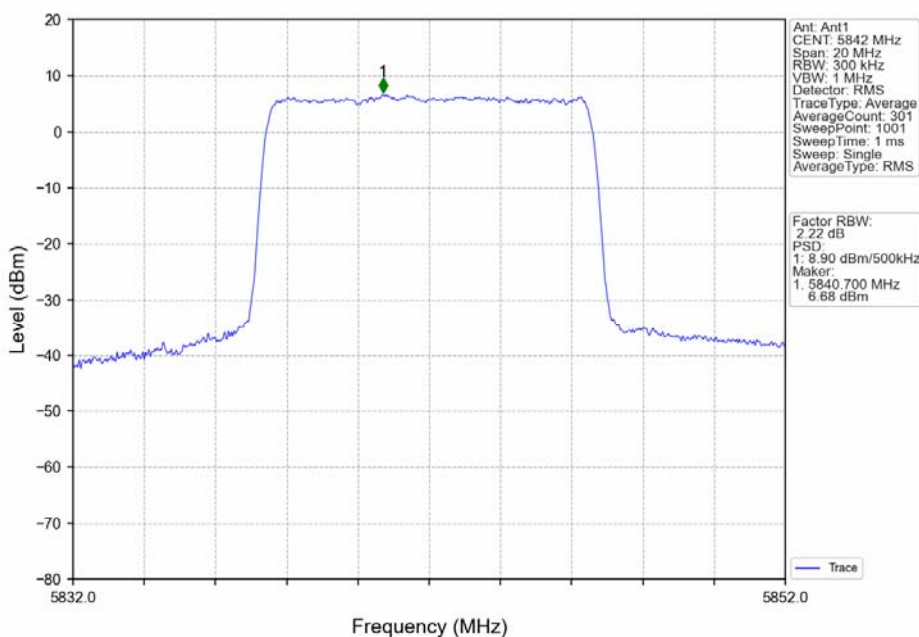
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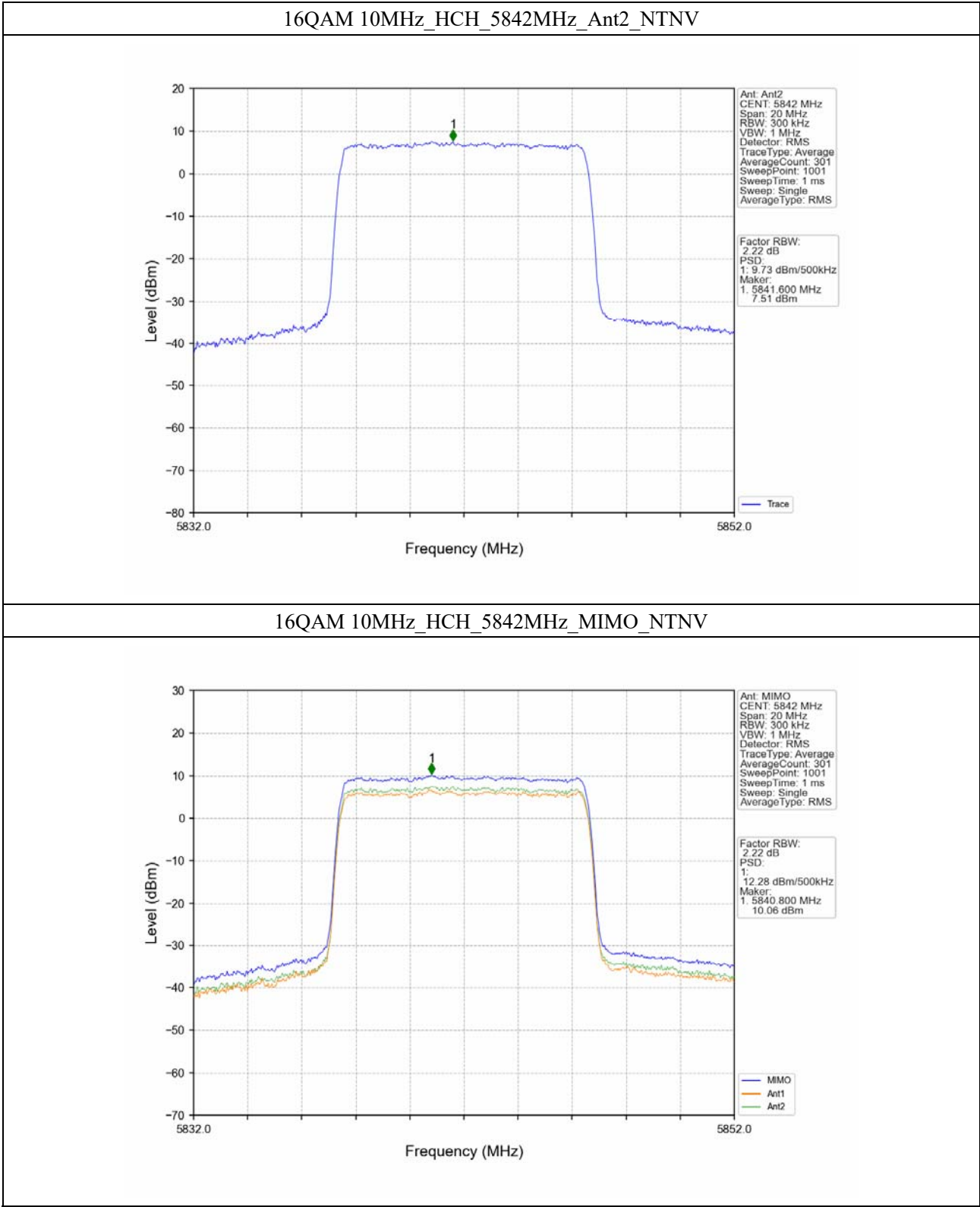
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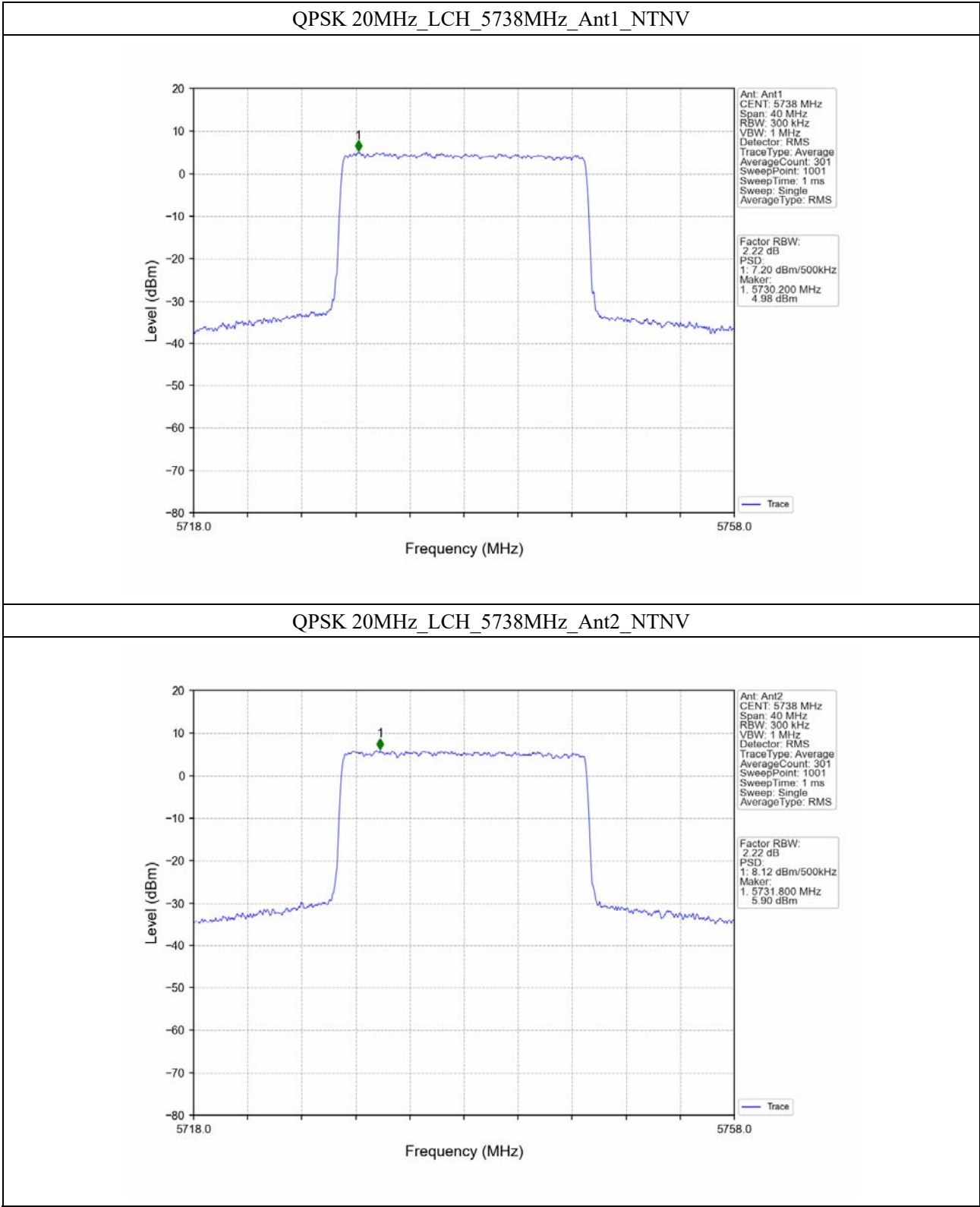
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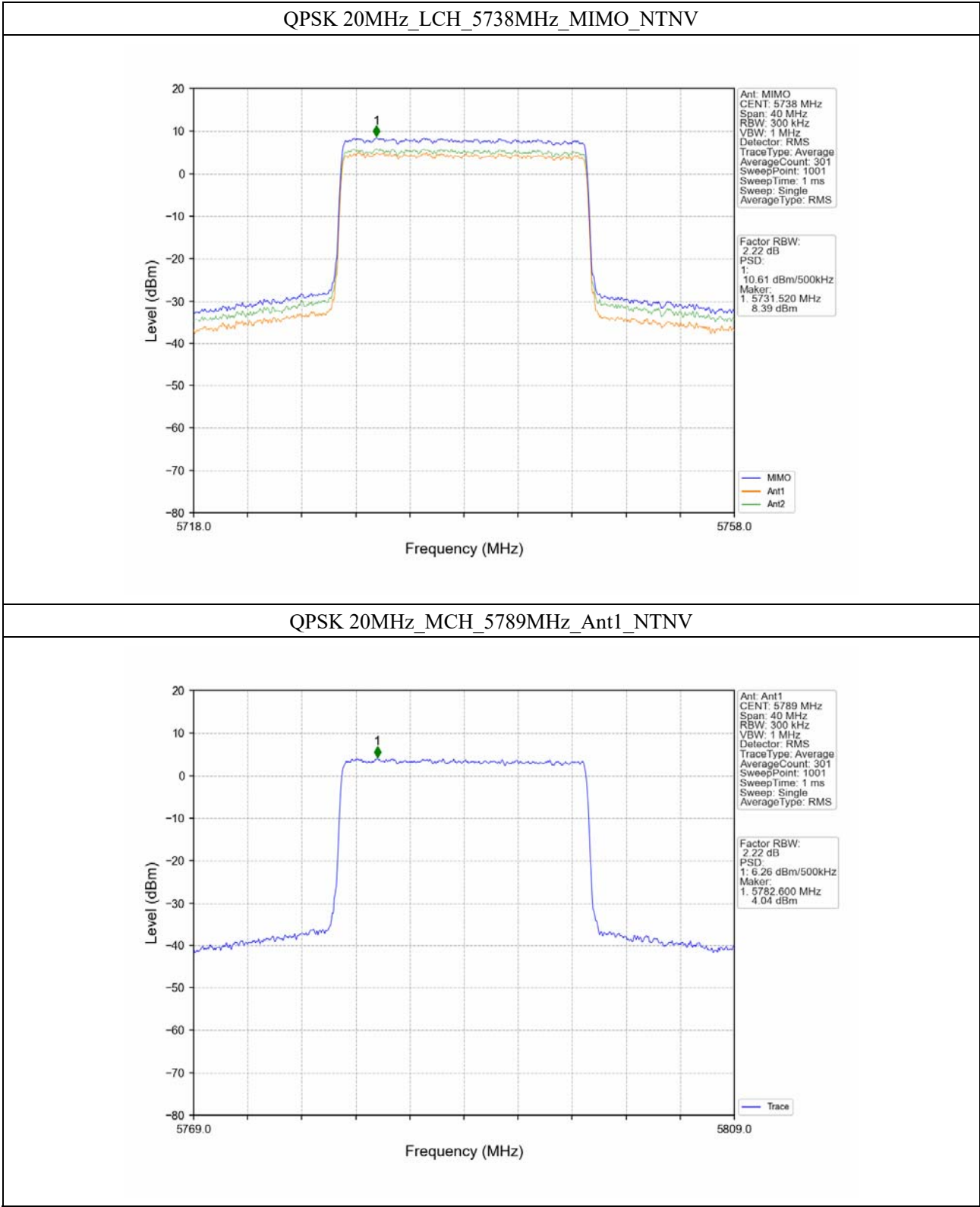
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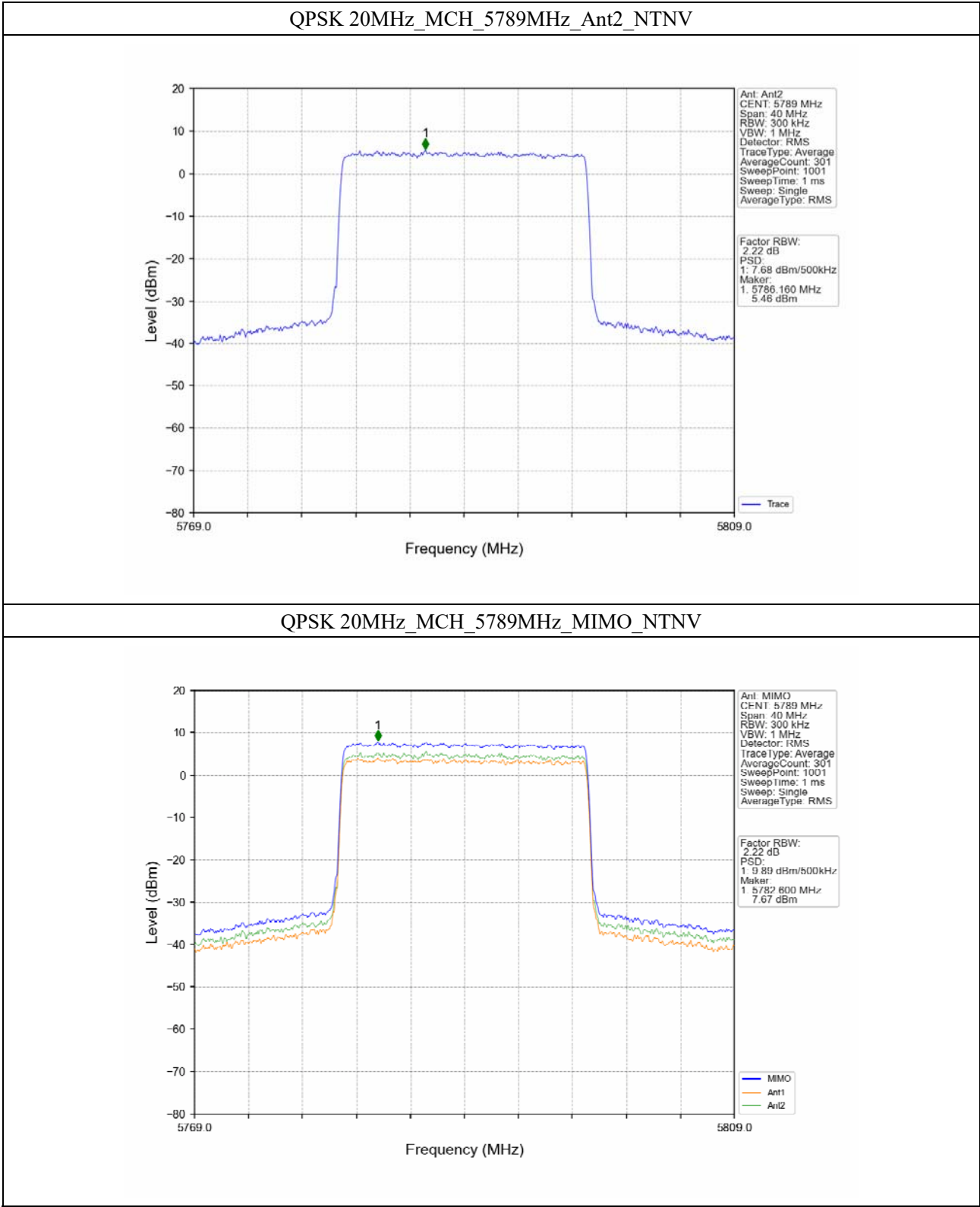
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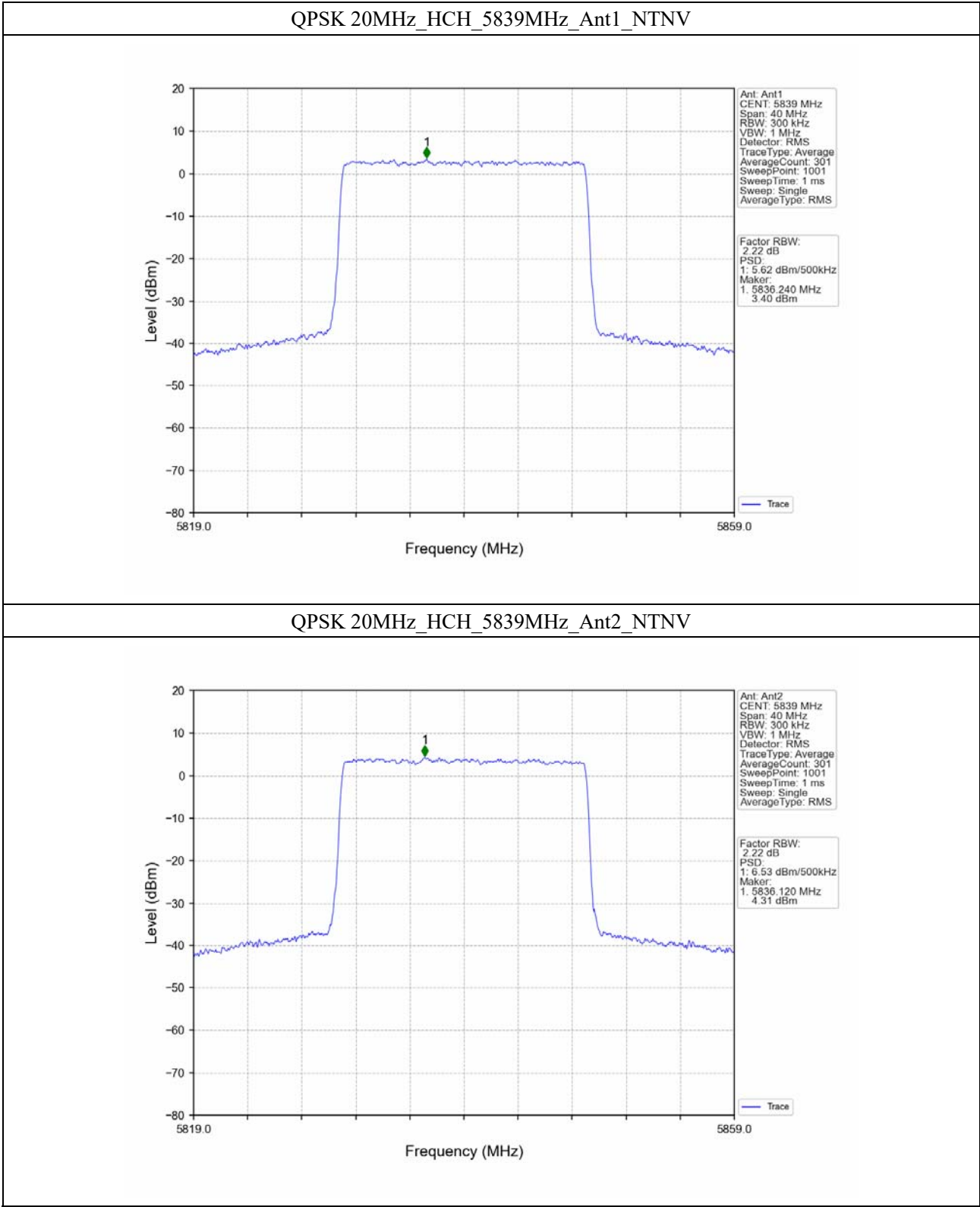
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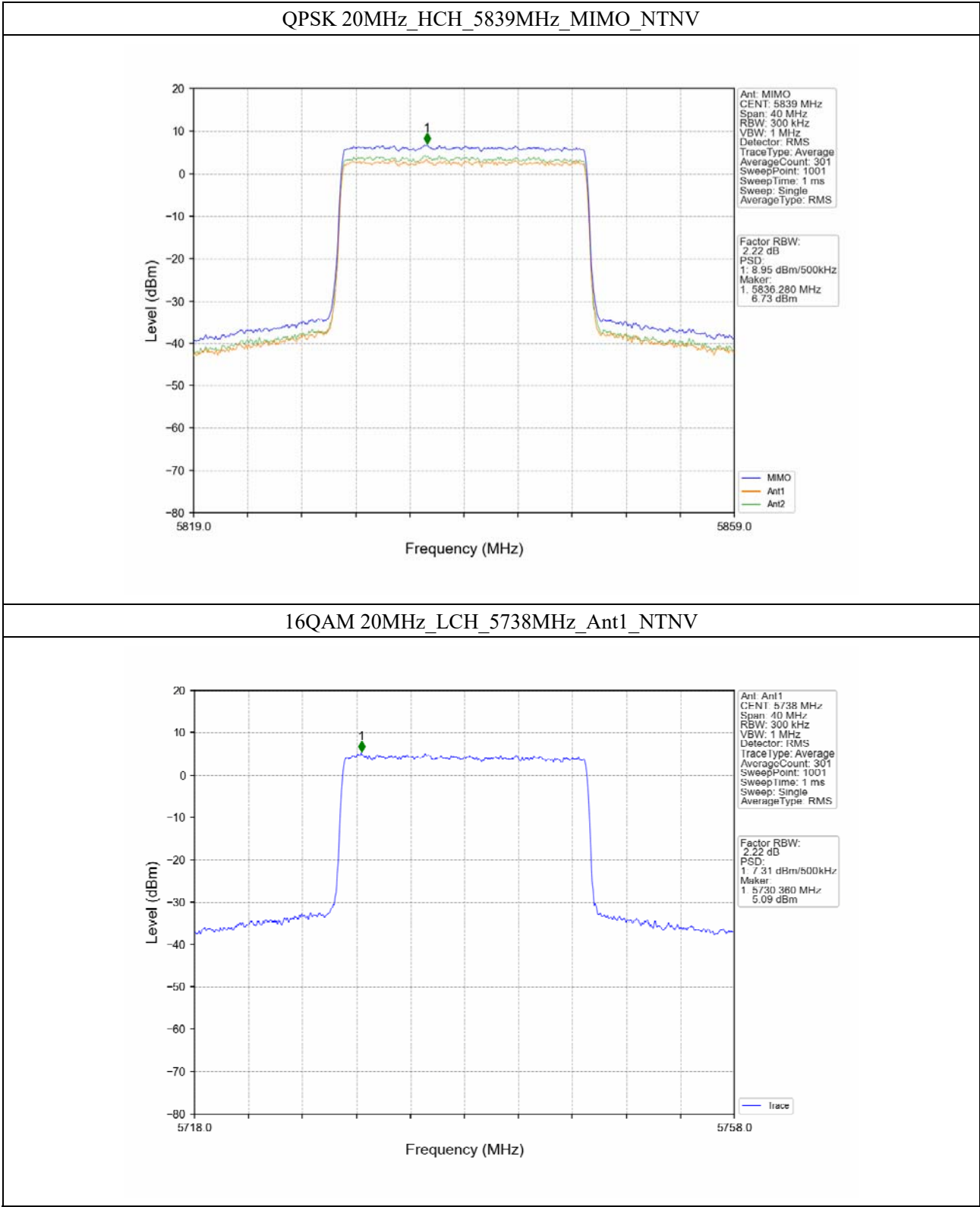
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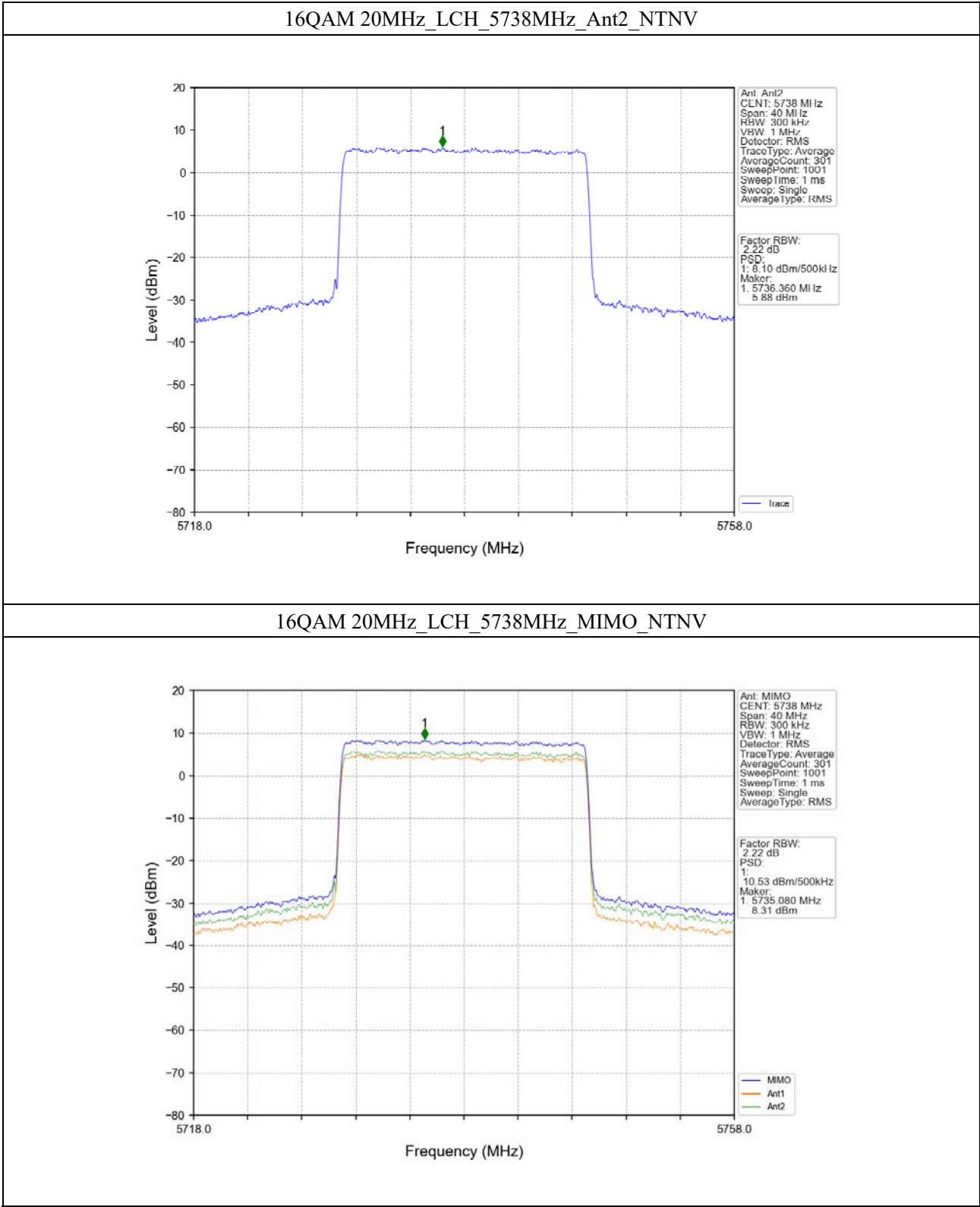
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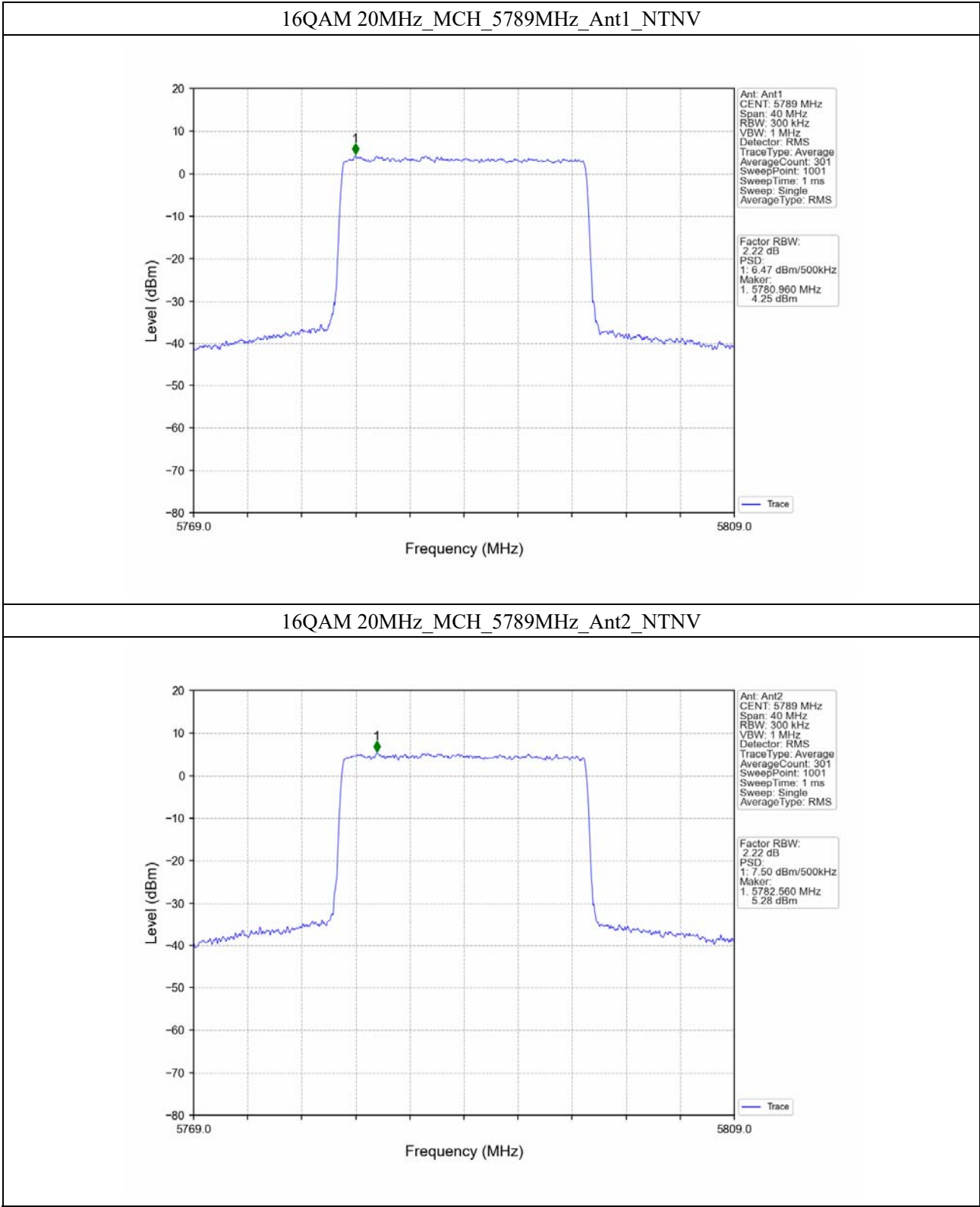
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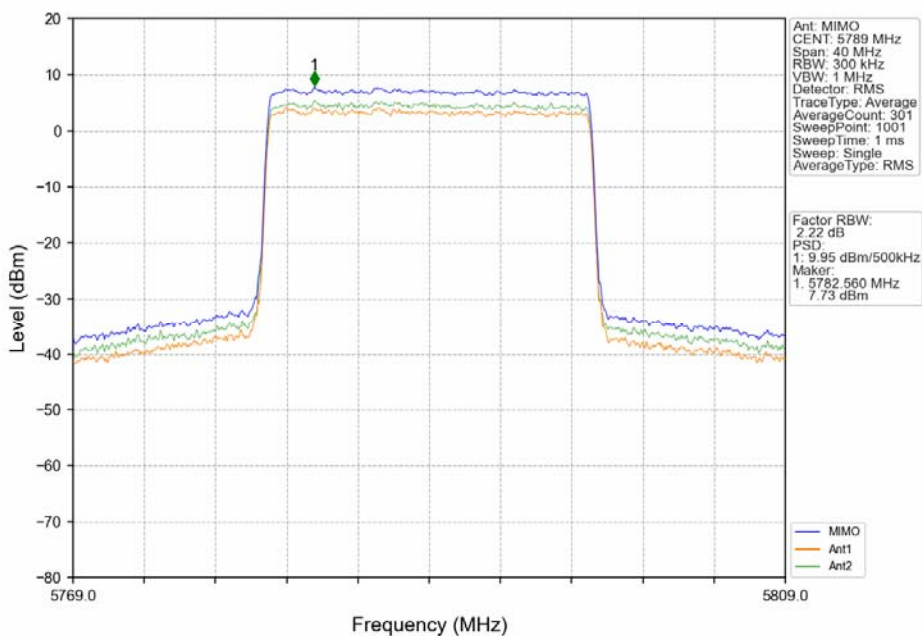
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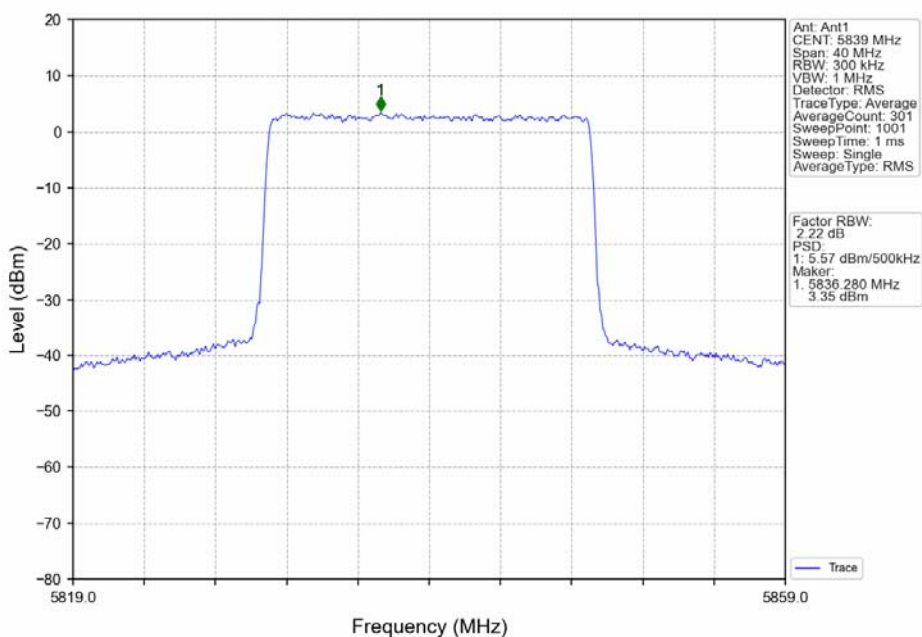
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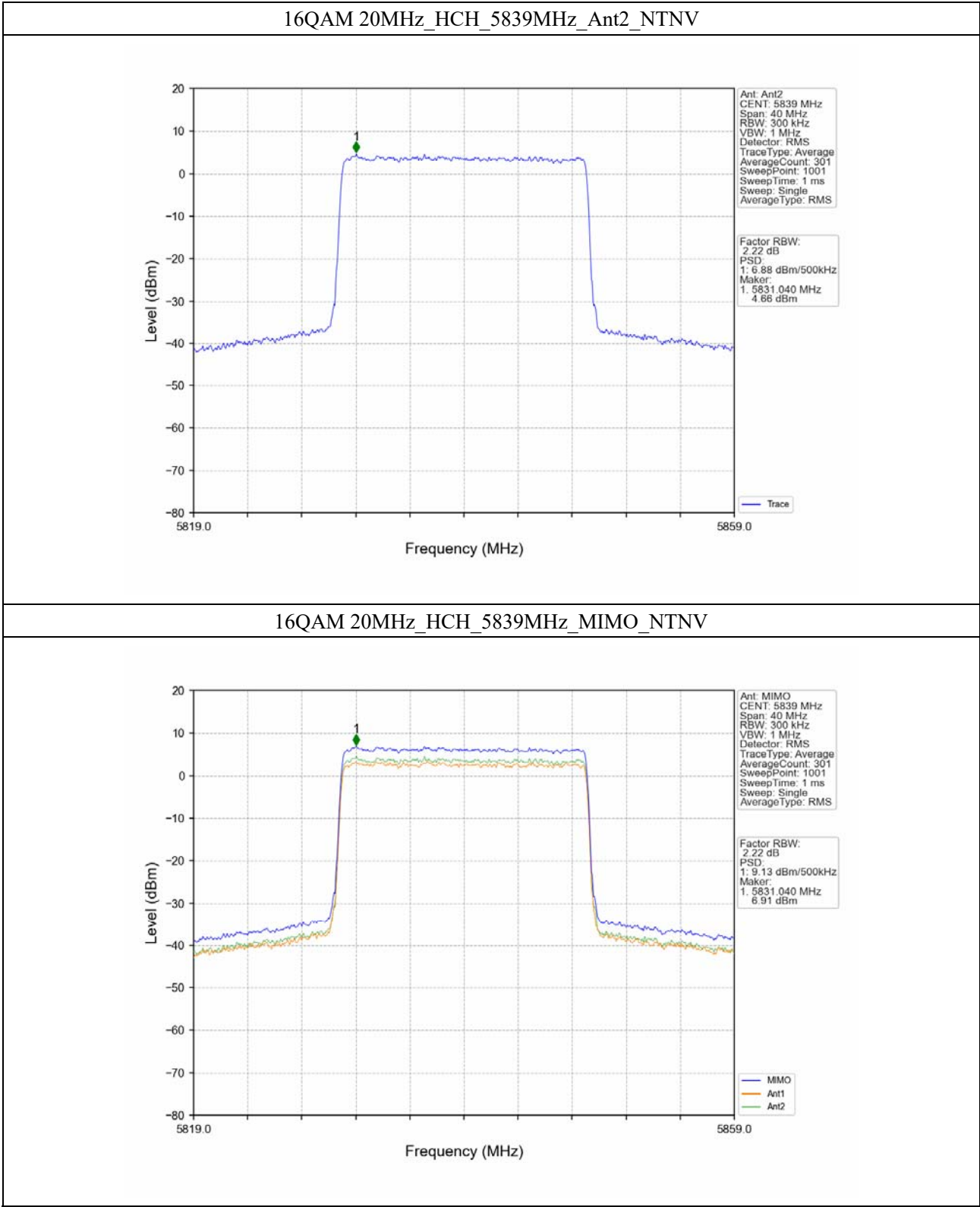
16QAM 20MHz_MCH_5789MHz_MIMO_NTNV



16QAM 20MHz_HCH_5839MHz_Ant1_NTNV



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10.0 Frequency Stability

10.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.02\%$ of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees

10.2 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at $+20$ degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

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10.3 Test Result

5G wifi

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	10.2	5180.020	5150 to 5250	Pass
				12.0	5180.020	5150 to 5250	Pass
				13.8	5180.000	5150 to 5250	Pass
			-30	12.0	5180.000	5150 to 5250	Pass
			-20	12.0	5179.940	5150 to 5250	Pass
			-10	12.0	5180.000	5150 to 5250	Pass
			0	12.0	5179.980	5150 to 5250	Pass
			10	12.0	5179.980	5150 to 5250	Pass
			30	12.0	5179.980	5150 to 5250	Pass
			40	12.0	5180.000	5150 to 5250	Pass
			50	12.0	5180.020	5150 to 5250	Pass
		5200	20	10.2	5200.040	5150 to 5250	Pass
				12.0	5200.020	5150 to 5250	Pass
				13.8	5200.020	5150 to 5250	Pass
			-30	12.0	5200.000	5150 to 5250	Pass
			-20	12.0	5200.020	5150 to 5250	Pass
			-10	12.0	5199.940	5150 to 5250	Pass
			0	12.0	5200.000	5150 to 5250	Pass
			10	12.0	5200.000	5150 to 5250	Pass
			30	12.0	5200.020	5150 to 5250	Pass
			40	12.0	5199.960	5150 to 5250	Pass
			50	12.0	5200.020	5150 to 5250	Pass
		5240	20	10.2	5239.920	5150 to 5250	Pass
				12.0	5239.920	5150 to 5250	Pass
				13.8	5239.940	5150 to 5250	Pass
			-30	12.0	5239.960	5150 to 5250	Pass
			-20	12.0	5239.940	5150 to 5250	Pass
			-10	12.0	5239.980	5150 to 5250	Pass
			0	12.0	5239.980	5150 to 5250	Pass
			10	12.0	5239.940	5150 to 5250	Pass
			30	12.0	5239.960	5150 to 5250	Pass
			40	12.0	5239.920	5150 to 5250	Pass
			50	12.0	5239.940	5150 to 5250	Pass

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		5745	20	10.2	5745.120	5725 to 5850	Pass
				12.0	5745.040	5725 to 5850	Pass
				13.8	5745.120	5725 to 5850	Pass
			-30	12.0	5745.060	5725 to 5850	Pass
			-20	12.0	5745.020	5725 to 5850	Pass
			-10	12.0	5745.060	5725 to 5850	Pass
			0	12.0	5745.040	5725 to 5850	Pass
			10	12.0	5745.060	5725 to 5850	Pass
			30	12.0	5745.040	5725 to 5850	Pass
			40	12.0	5744.980	5725 to 5850	Pass
			50	12.0	5745.100	5725 to 5850	Pass
		5785	20	10.2	5784.980	5725 to 5850	Pass
				12.0	5785.000	5725 to 5850	Pass
				13.8	5785.040	5725 to 5850	Pass
			-30	12.0	5784.920	5725 to 5850	Pass
			-20	12.0	5784.940	5725 to 5850	Pass
			-10	12.0	5784.920	5725 to 5850	Pass
			0	12.0	5784.920	5725 to 5850	Pass
			10	12.0	5784.980	5725 to 5850	Pass
			30	12.0	5784.920	5725 to 5850	Pass
			40	12.0	5784.940	5725 to 5850	Pass
			50	12.0	5785.000	5725 to 5850	Pass
		5825	20	10.2	5825.080	5725 to 5850	Pass
				12.0	5825.080	5725 to 5850	Pass
				13.8	5824.940	5725 to 5850	Pass
			-30	12.0	5825.060	5725 to 5850	Pass
			-20	12.0	5825.020	5725 to 5850	Pass
			-10	12.0	5825.080	5725 to 5850	Pass
			0	12.0	5825.040	5725 to 5850	Pass
			10	12.0	5824.940	5725 to 5850	Pass
			30	12.0	5825.040	5725 to 5850	Pass
			40	12.0	5825.020	5725 to 5850	Pass
			50	12.0	5825.060	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	10.2	5180.020	5150 to 5250	Pass
				12.0	5180.020	5150 to 5250	Pass
				13.8	5180.020	5150 to 5250	Pass
			-30	12.0	5180.040	5150 to 5250	Pass
			-20	12.0	5180.080	5150 to 5250	Pass

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			-10	12.0	5180.020	5150 to 5250	Pass
			0	12.0	5179.980	5150 to 5250	Pass
			10	12.0	5180.000	5150 to 5250	Pass
			30	12.0	5179.980	5150 to 5250	Pass
			40	12.0	5180.000	5150 to 5250	Pass
			50	12.0	5180.020	5150 to 5250	Pass
		5200	20	10.2	5199.960	5150 to 5250	Pass
				12.0	5200.000	5150 to 5250	Pass
				13.8	5200.060	5150 to 5250	Pass
			-30	12.0	5199.920	5150 to 5250	Pass
			-20	12.0	5199.880	5150 to 5250	Pass
			-10	12.0	5199.960	5150 to 5250	Pass
			0	12.0	5200.000	5150 to 5250	Pass
			10	12.0	5200.060	5150 to 5250	Pass
			30	12.0	5199.980	5150 to 5250	Pass
			40	12.0	5199.920	5150 to 5250	Pass
			50	12.0	5199.940	5150 to 5250	Pass
		5240	20	10.2	5239.880	5150 to 5250	Pass
				12.0	5240.000	5150 to 5250	Pass
				13.8	5239.980	5150 to 5250	Pass
			-30	12.0	5239.940	5150 to 5250	Pass
			-20	12.0	5239.900	5150 to 5250	Pass
			-10	12.0	5240.040	5150 to 5250	Pass
			0	12.0	5239.920	5150 to 5250	Pass
			10	12.0	5240.020	5150 to 5250	Pass
			30	12.0	5239.920	5150 to 5250	Pass
			40	12.0	5240.020	5150 to 5250	Pass
			50	12.0	5240.000	5150 to 5250	Pass
		5745	20	10.2	5745.000	5725 to 5850	Pass
				12.0	5744.940	5725 to 5850	Pass
				13.8	5744.980	5725 to 5850	Pass
			-30	12.0	5745.020	5725 to 5850	Pass
			-20	12.0	5744.920	5725 to 5850	Pass
			-10	12.0	5745.100	5725 to 5850	Pass
			0	12.0	5744.960	5725 to 5850	Pass
			10	12.0	5744.940	5725 to 5850	Pass
			30	12.0	5745.000	5725 to 5850	Pass
			40	12.0	5745.020	5725 to 5850	Pass

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			50	12.0	5745.000	5725 to 5850	Pass
			20	10.2	5784.960	5725 to 5850	Pass
				12.0	5784.980	5725 to 5850	Pass
				13.8	5784.980	5725 to 5850	Pass
				13.8	5784.980	5725 to 5850	Pass
			-30	12.0	5784.940	5725 to 5850	Pass
			-20	12.0	5785.020	5725 to 5850	Pass
			-10	12.0	5784.940	5725 to 5850	Pass
			0	12.0	5785.000	5725 to 5850	Pass
			10	12.0	5785.100	5725 to 5850	Pass
			30	12.0	5784.860	5725 to 5850	Pass
			40	12.0	5785.040	5725 to 5850	Pass
			50	12.0	5784.960	5725 to 5850	Pass
		5825	20	10.2	5824.940	5725 to 5850	Pass
				12.0	5824.960	5725 to 5850	Pass
				13.8	5824.960	5725 to 5850	Pass
			-30	12.0	5825.100	5725 to 5850	Pass
			-20	12.0	5824.980	5725 to 5850	Pass
			-10	12.0	5824.980	5725 to 5850	Pass
			0	12.0	5824.960	5725 to 5850	Pass
			10	12.0	5824.960	5725 to 5850	Pass
			30	12.0	5824.960	5725 to 5850	Pass
			40	12.0	5824.940	5725 to 5850	Pass
			50	12.0	5824.980	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	10.2	5190.040	5150 to 5250	Pass
				12.0	5190.000	5150 to 5250	Pass
				13.8	5190.000	5150 to 5250	Pass
			-30	12.0	5190.000	5150 to 5250	Pass
			-20	12.0	5190.000	5150 to 5250	Pass
			-10	12.0	5190.000	5150 to 5250	Pass
			0	12.0	5190.000	5150 to 5250	Pass
			10	12.0	5190.000	5150 to 5250	Pass
			30	12.0	5190.000	5150 to 5250	Pass
			40	12.0	5190.040	5150 to 5250	Pass
			50	12.0	5190.000	5150 to 5250	Pass
		5230	20	10.2	5230.000	5150 to 5250	Pass
				12.0	5229.960	5150 to 5250	Pass
				13.8	5230.000	5150 to 5250	Pass
			-30	12.0	5230.000	5150 to 5250	Pass
			-30	12.0	5230.000	5150 to 5250	Pass

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			-20	12.0	5229.960	5150 to 5250	Pass
			-10	12.0	5229.960	5150 to 5250	Pass
			0	12.0	5230.000	5150 to 5250	Pass
			10	12.0	5230.000	5150 to 5250	Pass
			30	12.0	5230.000	5150 to 5250	Pass
			40	12.0	5230.000	5150 to 5250	Pass
			50	12.0	5229.960	5150 to 5250	Pass
		5755	20	10.2	5755.000	5725 to 5850	Pass
				12.0	5755.000	5725 to 5850	Pass
				13.8	5755.040	5725 to 5850	Pass
			-30	12.0	5755.000	5725 to 5850	Pass
			-20	12.0	5755.000	5725 to 5850	Pass
			-10	12.0	5755.040	5725 to 5850	Pass
			0	12.0	5755.040	5725 to 5850	Pass
			10	12.0	5755.000	5725 to 5850	Pass
			30	12.0	5755.000	5725 to 5850	Pass
			40	12.0	5755.000	5725 to 5850	Pass
			50	12.0	5755.040	5725 to 5850	Pass
		5795	20	10.2	5795.040	5725 to 5850	Pass
				12.0	5795.040	5725 to 5850	Pass
				13.8	5794.960	5725 to 5850	Pass
			-30	12.0	5794.960	5725 to 5850	Pass
			-20	12.0	5794.960	5725 to 5850	Pass
			-10	12.0	5794.920	5725 to 5850	Pass
			0	12.0	5795.040	5725 to 5850	Pass
			10	12.0	5795.000	5725 to 5850	Pass
			30	12.0	5795.160	5725 to 5850	Pass
			40	12.0	5795.120	5725 to 5850	Pass
			50	12.0	5795.040	5725 to 5850	Pass
		5180	20	10.2	5180.000	5150 to 5250	Pass
				12.0	5180.020	5150 to 5250	Pass
				13.8	5180.040	5150 to 5250	Pass
			-30	12.0	5180.040	5150 to 5250	Pass
			-20	12.0	5180.060	5150 to 5250	Pass
			-10	12.0	5180.000	5150 to 5250	Pass
			0	12.0	5180.000	5150 to 5250	Pass
			10	12.0	5179.960	5150 to 5250	Pass
			30	12.0	5180.020	5150 to 5250	Pass

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			40	12.0	5179.980	5150 to 5250	Pass
			50	12.0	5180.000	5150 to 5250	Pass
		5200	20	10.2	5200.020	5150 to 5250	Pass
				12.0	5199.980	5150 to 5250	Pass
				13.8	5200.020	5150 to 5250	Pass
			-30	12.0	5200.000	5150 to 5250	Pass
			-20	12.0	5199.960	5150 to 5250	Pass
			-10	12.0	5200.000	5150 to 5250	Pass
			0	12.0	5199.980	5150 to 5250	Pass
			10	12.0	5199.980	5150 to 5250	Pass
			30	12.0	5200.040	5150 to 5250	Pass
			40	12.0	5200.040	5150 to 5250	Pass
			50	12.0	5200.020	5150 to 5250	Pass
		5240	20	10.2	5240.000	5150 to 5250	Pass
				12.0	5240.060	5150 to 5250	Pass
				13.8	5239.960	5150 to 5250	Pass
			-30	12.0	5240.000	5150 to 5250	Pass
			-20	12.0	5240.000	5150 to 5250	Pass
			-10	12.0	5239.960	5150 to 5250	Pass
			0	12.0	5239.940	5150 to 5250	Pass
			10	12.0	5239.980	5150 to 5250	Pass
			30	12.0	5239.960	5150 to 5250	Pass
			40	12.0	5240.000	5150 to 5250	Pass
			50	12.0	5240.040	5150 to 5250	Pass
		5745	20	10.2	5744.980	5725 to 5850	Pass
				12.0	5745.000	5725 to 5850	Pass
				13.8	5745.120	5725 to 5850	Pass
			-30	12.0	5745.100	5725 to 5850	Pass
			-20	12.0	5745.000	5725 to 5850	Pass
			-10	12.0	5745.060	5725 to 5850	Pass
			0	12.0	5744.980	5725 to 5850	Pass
			10	12.0	5744.980	5725 to 5850	Pass
			30	12.0	5744.940	5725 to 5850	Pass
			40	12.0	5744.920	5725 to 5850	Pass
			50	12.0	5745.020	5725 to 5850	Pass
		5785	20	10.2	5784.920	5725 to 5850	Pass
				12.0	5784.920	5725 to 5850	Pass
				13.8	5784.980	5725 to 5850	Pass

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			-30	12.0	5784.960	5725 to 5850	Pass
			-20	12.0	5785.040	5725 to 5850	Pass
			-10	12.0	5785.040	5725 to 5850	Pass
			0	12.0	5785.040	5725 to 5850	Pass
			10	12.0	5784.980	5725 to 5850	Pass
			30	12.0	5785.020	5725 to 5850	Pass
			40	12.0	5785.000	5725 to 5850	Pass
			50	12.0	5785.060	5725 to 5850	Pass
		5825	20	10.2	5825.020	5725 to 5850	Pass
				12.0	5824.940	5725 to 5850	Pass
				13.8	5824.980	5725 to 5850	Pass
			-30	12.0	5825.040	5725 to 5850	Pass
			-20	12.0	5824.980	5725 to 5850	Pass
			-10	12.0	5825.020	5725 to 5850	Pass
			0	12.0	5824.960	5725 to 5850	Pass
			10	12.0	5825.000	5725 to 5850	Pass
			30	12.0	5824.960	5725 to 5850	Pass
			40	12.0	5825.020	5725 to 5850	Pass
			50	12.0	5824.980	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5190	20	10.2	5190.000	5150 to 5250	Pass
				12.0	5190.040	5150 to 5250	Pass
				13.8	5190.080	5150 to 5250	Pass
			-30	12.0	5190.040	5150 to 5250	Pass
			-20	12.0	5189.960	5150 to 5250	Pass
			-10	12.0	5190.080	5150 to 5250	Pass
			0	12.0	5190.040	5150 to 5250	Pass
			10	12.0	5190.040	5150 to 5250	Pass
			30	12.0	5189.960	5150 to 5250	Pass
			40	12.0	5190.040	5150 to 5250	Pass
			50	12.0	5190.000	5150 to 5250	Pass
		5230	20	10.2	5229.960	5150 to 5250	Pass
				12.0	5229.960	5150 to 5250	Pass
				13.8	5230.000	5150 to 5250	Pass
			-30	12.0	5229.920	5150 to 5250	Pass
			-20	12.0	5229.920	5150 to 5250	Pass
			-10	12.0	5230.040	5150 to 5250	Pass
			0	12.0	5229.920	5150 to 5250	Pass
			10	12.0	5229.960	5150 to 5250	Pass

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			30	12.0	5230.000	5150 to 5250	Pass
			40	12.0	5230.000	5150 to 5250	Pass
			50	12.0	5230.040	5150 to 5250	Pass
		5755	20	10.2	5754.960	5725 to 5850	Pass
				12.0	5755.040	5725 to 5850	Pass
				13.8	5754.960	5725 to 5850	Pass
			-30	12.0	5755.040	5725 to 5850	Pass
			-20	12.0	5755.000	5725 to 5850	Pass
			-10	12.0	5754.960	5725 to 5850	Pass
			0	12.0	5755.000	5725 to 5850	Pass
			10	12.0	5754.960	5725 to 5850	Pass
			30	12.0	5754.960	5725 to 5850	Pass
			40	12.0	5755.000	5725 to 5850	Pass
			50	12.0	5755.040	5725 to 5850	Pass
		5795	20	10.2	5795.000	5725 to 5850	Pass
				12.0	5795.040	5725 to 5850	Pass
				13.8	5795.040	5725 to 5850	Pass
			-30	12.0	5795.040	5725 to 5850	Pass
			-20	12.0	5794.960	5725 to 5850	Pass
			-10	12.0	5795.000	5725 to 5850	Pass
			0	12.0	5795.040	5725 to 5850	Pass
			10	12.0	5794.960	5725 to 5850	Pass
			30	12.0	5795.000	5725 to 5850	Pass
			40	12.0	5795.040	5725 to 5850	Pass
			50	12.0	5795.000	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	10.2	5189.963	5150 to 5250	Pass
				12.0	5190.038	5150 to 5250	Pass
				13.8	5190.038	5150 to 5250	Pass
			-30	12.0	5190.038	5150 to 5250	Pass
			-20	12.0	5190.038	5150 to 5250	Pass
			-10	12.0	5190.038	5150 to 5250	Pass
			0	12.0	5190.038	5150 to 5250	Pass
			10	12.0	5190.113	5150 to 5250	Pass
			30	12.0	5190.038	5150 to 5250	Pass
			40	12.0	5189.963	5150 to 5250	Pass
			50	12.0	5189.963	5150 to 5250	Pass
		5775	20	10.2	5774.925	5725 to 5850	Pass
				12.0	5774.925	5725 to 5850	Pass

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				13.8	5775.000	5725 to 5850	Pass
			-30	12.0	5775.000	5725 to 5850	Pass
			-20	12.0	5774.925	5725 to 5850	Pass
			-10	12.0	5775.000	5725 to 5850	Pass
			0	12.0	5775.000	5725 to 5850	Pass
			10	12.0	5774.925	5725 to 5850	Pass
			30	12.0	5774.925	5725 to 5850	Pass
			40	12.0	5775.000	5725 to 5850	Pass
			50	12.0	5775.075	5725 to 5850	Pass

5G transfer image

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
QPSK 1.4MHz	MIMO	5154	20	10.2	5153.996	5150 to 5250	Pass
				12.0	5153.997	5150 to 5250	Pass
				13.8	5153.999	5150 to 5250	Pass
			-30	12.0	5153.997	5150 to 5250	Pass
			-20	12.0	5153.996	5150 to 5250	Pass
			-10	12.0	5153.997	5150 to 5250	Pass
			0	12.0	5153.997	5150 to 5250	Pass
			10	12.0	5153.996	5150 to 5250	Pass
			30	12.0	5153.997	5150 to 5250	Pass
			40	12.0	5153.994	5150 to 5250	Pass
			50	12.0	5153.997	5150 to 5250	Pass
		5200	20	10.2	5199.999	5150 to 5250	Pass
				12.0	5199.996	5150 to 5250	Pass
				13.8	5199.999	5150 to 5250	Pass
			-30	12.0	5199.997	5150 to 5250	Pass
			-20	12.0	5199.996	5150 to 5250	Pass
			-10	12.0	5199.997	5150 to 5250	Pass
			0	12.0	5199.999	5150 to 5250	Pass
			10	12.0	5199.997	5150 to 5250	Pass
			30	12.0	5199.999	5150 to 5250	Pass
			40	12.0	5200.000	5150 to 5250	Pass
			50	12.0	5199.997	5150 to 5250	Pass
		5246	20	10.2	5245.999	5150 to 5250	Pass
				12.0	5245.997	5150 to 5250	Pass

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				13.8	5246.000	5150 to 5250	Pass
			-30	12.0	5245.997	5150 to 5250	Pass
			-20	12.0	5245.997	5150 to 5250	Pass
			-10	12.0	5245.996	5150 to 5250	Pass
			0	12.0	5245.997	5150 to 5250	Pass
			10	12.0	5245.999	5150 to 5250	Pass
			30	12.0	5245.997	5150 to 5250	Pass
			40	12.0	5245.999	5150 to 5250	Pass
			50	12.0	5245.999	5150 to 5250	Pass
16QAM 1.4MHz	MIMO	5154	20	10.2	5153.996	5150 to 5250	Pass
				12.0	5153.997	5150 to 5250	Pass
				13.8	5153.997	5150 to 5250	Pass
			-30	12.0	5153.995	5150 to 5250	Pass
			-20	12.0	5153.997	5150 to 5250	Pass
			-10	12.0	5153.999	5150 to 5250	Pass
			0	12.0	5153.997	5150 to 5250	Pass
			10	12.0	5153.996	5150 to 5250	Pass
			30	12.0	5153.997	5150 to 5250	Pass
			40	12.0	5153.999	5150 to 5250	Pass
			50	12.0	5153.996	5150 to 5250	Pass
		5200	20	10.2	5199.997	5150 to 5250	Pass
				12.0	5199.999	5150 to 5250	Pass
				13.8	5199.999	5150 to 5250	Pass
			-30	12.0	5199.996	5150 to 5250	Pass
			-20	12.0	5199.997	5150 to 5250	Pass
			-10	12.0	5199.999	5150 to 5250	Pass
			0	12.0	5199.997	5150 to 5250	Pass
			10	12.0	5199.996	5150 to 5250	Pass
			30	12.0	5199.997	5150 to 5250	Pass
			40	12.0	5199.997	5150 to 5250	Pass
			50	12.0	5199.999	5150 to 5250	Pass
		5246	20	10.2	5246.000	5150 to 5250	Pass
				12.0	5245.996	5150 to 5250	Pass
				13.8	5245.999	5150 to 5250	Pass
			-30	12.0	5246.000	5150 to 5250	Pass
			-20	12.0	5245.995	5150 to 5250	Pass
			-10	12.0	5245.997	5150 to 5250	Pass
			0	12.0	5245.999	5150 to 5250	Pass

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			10	12.0	5245.997	5150 to 5250	Pass
			30	12.0	5245.994	5150 to 5250	Pass
			40	12.0	5245.997	5150 to 5250	Pass
			50	12.0	5245.997	5150 to 5250	Pass

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
QPSK 10MHz	MIMO	5157	20	10.2	5157.030	5150 to 5250	Pass
				12.0	5157.030	5150 to 5250	Pass
				13.8	5157.030	5150 to 5250	Pass
			-30	12.0	5157.030	5150 to 5250	Pass
			-20	12.0	5157.030	5150 to 5250	Pass
			-10	12.0	5157.020	5150 to 5250	Pass
			0	12.0	5157.020	5150 to 5250	Pass
			10	12.0	5157.010	5150 to 5250	Pass
			30	12.0	5157.010	5150 to 5250	Pass
			40	12.0	5157.010	5150 to 5250	Pass
			50	12.0	5157.030	5150 to 5250	Pass
		5200	20	10.2	5200.030	5150 to 5250	Pass
				12.0	5200.020	5150 to 5250	Pass
				13.8	5200.040	5150 to 5250	Pass
			-30	12.0	5200.020	5150 to 5250	Pass
			-20	12.0	5200.020	5150 to 5250	Pass
			-10	12.0	5200.030	5150 to 5250	Pass
			0	12.0	5200.030	5150 to 5250	Pass
			10	12.0	5199.990	5150 to 5250	Pass
			30	12.0	5200.030	5150 to 5250	Pass
			40	12.0	5200.000	5150 to 5250	Pass
			50	12.0	5200.040	5150 to 5250	Pass
		5243	20	10.2	5243.010	5150 to 5250	Pass
				12.0	5243.020	5150 to 5250	Pass
				13.8	5243.010	5150 to 5250	Pass
			-30	12.0	5243.030	5150 to 5250	Pass
			-20	12.0	5243.010	5150 to 5250	Pass
			-10	12.0	5243.010	5150 to 5250	Pass
			0	12.0	5243.020	5150 to 5250	Pass
			10	12.0	5243.020	5150 to 5250	Pass

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16QAM 10MHz	MIMO		30	12.0	5243.020	5150 to 5250	Pass
			40	12.0	5243.020	5150 to 5250	Pass
			50	12.0	5243.000	5150 to 5250	Pass
		5157	20	10.2	5157.030	5150 to 5250	Pass
				12.0	5157.020	5150 to 5250	Pass
				13.8	5157.020	5150 to 5250	Pass
			-30	12.0	5157.030	5150 to 5250	Pass
			-20	12.0	5157.020	5150 to 5250	Pass
			-10	12.0	5157.030	5150 to 5250	Pass
			0	12.0	5157.000	5150 to 5250	Pass
			10	12.0	5157.030	5150 to 5250	Pass
			30	12.0	5157.010	5150 to 5250	Pass
			40	12.0	5157.030	5150 to 5250	Pass
			50	12.0	5157.030	5150 to 5250	Pass
		5200	20	10.2	5200.030	5150 to 5250	Pass
				12.0	5200.020	5150 to 5250	Pass
				13.8	5200.030	5150 to 5250	Pass
			-30	12.0	5200.010	5150 to 5250	Pass
			-20	12.0	5200.020	5150 to 5250	Pass
			-10	12.0	5200.010	5150 to 5250	Pass
			0	12.0	5200.020	5150 to 5250	Pass
			10	12.0	5200.020	5150 to 5250	Pass
			30	12.0	5200.000	5150 to 5250	Pass
			40	12.0	5200.010	5150 to 5250	Pass
			50	12.0	5199.990	5150 to 5250	Pass
		5243	20	10.2	5243.020	5150 to 5250	Pass
				12.0	5243.000	5150 to 5250	Pass
				13.8	5243.030	5150 to 5250	Pass
			-30	12.0	5243.030	5150 to 5250	Pass
			-20	12.0	5243.020	5150 to 5250	Pass
			-10	12.0	5243.010	5150 to 5250	Pass
			0	12.0	5243.010	5150 to 5250	Pass
			10	12.0	5243.040	5150 to 5250	Pass
			30	12.0	5243.020	5150 to 5250	Pass
			40	12.0	5243.010	5150 to 5250	Pass
			50	12.0	5243.030	5150 to 5250	Pass

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Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
QPSK 20MHz	MIMO	5167	20	10.2	5167.020	5150 to 5250	Pass
				12.0	5167.040	5150 to 5250	Pass
				13.8	5167.000	5150 to 5250	Pass
			-30	12.0	5166.980	5150 to 5250	Pass
			-20	12.0	5167.040	5150 to 5250	Pass
			-10	12.0	5167.000	5150 to 5250	Pass
			0	12.0	5167.060	5150 to 5250	Pass
			10	12.0	5167.020	5150 to 5250	Pass
			30	12.0	5167.020	5150 to 5250	Pass
			40	12.0	5167.040	5150 to 5250	Pass
			50	12.0	5167.020	5150 to 5250	Pass
		5200	20	10.2	5200.020	5150 to 5250	Pass
				12.0	5200.000	5150 to 5250	Pass
				13.8	5200.000	5150 to 5250	Pass
			-30	12.0	5200.000	5150 to 5250	Pass
			-20	12.0	5200.000	5150 to 5250	Pass
			-10	12.0	5200.020	5150 to 5250	Pass
			0	12.0	5200.020	5150 to 5250	Pass
			10	12.0	5200.000	5150 to 5250	Pass
			30	12.0	5200.000	5150 to 5250	Pass
			40	12.0	5200.000	5150 to 5250	Pass
			50	12.0	5200.020	5150 to 5250	Pass
		5233	20	10.2	5233.000	5150 to 5250	Pass
				12.0	5233.020	5150 to 5250	Pass
				13.8	5233.020	5150 to 5250	Pass
			-30	12.0	5233.020	5150 to 5250	Pass
			-20	12.0	5233.000	5150 to 5250	Pass
			-10	12.0	5233.020	5150 to 5250	Pass
			0	12.0	5233.020	5150 to 5250	Pass
			10	12.0	5233.040	5150 to 5250	Pass
			30	12.0	5233.040	5150 to 5250	Pass
			40	12.0	5233.000	5150 to 5250	Pass
			50	12.0	5233.020	5150 to 5250	Pass
16QAM	MIMO	5167	20	10.2	5167.000	5150 to 5250	Pass

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20MHz				12.0	5167.040	5150 to 5250	Pass
				13.8	5167.020	5150 to 5250	Pass
			-30	12.0	5167.000	5150 to 5250	Pass
			-20	12.0	5167.040	5150 to 5250	Pass
			-10	12.0	5167.000	5150 to 5250	Pass
			0	12.0	5167.020	5150 to 5250	Pass
			10	12.0	5167.000	5150 to 5250	Pass
			30	12.0	5167.000	5150 to 5250	Pass
			40	12.0	5167.020	5150 to 5250	Pass
			50	12.0	5167.000	5150 to 5250	Pass
		5200	20	10.2	5199.980	5150 to 5250	Pass
				12.0	5200.020	5150 to 5250	Pass
				13.8	5199.980	5150 to 5250	Pass
			-30	12.0	5200.020	5150 to 5250	Pass
			-20	12.0	5200.000	5150 to 5250	Pass
			-10	12.0	5200.000	5150 to 5250	Pass
			0	12.0	5200.020	5150 to 5250	Pass
			10	12.0	5200.000	5150 to 5250	Pass
			30	12.0	5199.980	5150 to 5250	Pass
			40	12.0	5199.980	5150 to 5250	Pass
			50	12.0	5200.020	5150 to 5250	Pass
		5233	20	10.2	5233.000	5150 to 5250	Pass
				12.0	5233.020	5150 to 5250	Pass
				13.8	5233.020	5150 to 5250	Pass
			-30	12.0	5233.020	5150 to 5250	Pass
			-20	12.0	5233.020	5150 to 5250	Pass
			-10	12.0	5233.000	5150 to 5250	Pass
			0	12.0	5233.020	5150 to 5250	Pass
			10	12.0	5232.980	5150 to 5250	Pass
			30	12.0	5233.000	5150 to 5250	Pass
			40	12.0	5233.000	5150 to 5250	Pass
			50	12.0	5233.000	5150 to 5250	Pass

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5.8G

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
QPSK 1.4MHz	MIMO	5728	20	10.2	5727.996	5725 to 5850	Pass
				12.0	5727.993	5725 to 5850	Pass
				13.8	5727.997	5725 to 5850	Pass
			-30	12.0	5727.995	5725 to 5850	Pass
			-20	12.0	5727.993	5725 to 5850	Pass
			-10	12.0	5727.995	5725 to 5850	Pass
			0	12.0	5727.997	5725 to 5850	Pass
			10	12.0	5727.994	5725 to 5850	Pass
			30	12.0	5727.995	5725 to 5850	Pass
			40	12.0	5727.993	5725 to 5850	Pass
			50	12.0	5727.996	5725 to 5850	Pass
		5788	20	10.2	5787.991	5725 to 5850	Pass
				12.0	5787.995	5725 to 5850	Pass
				13.8	5787.997	5725 to 5850	Pass
			-30	12.0	5787.993	5725 to 5850	Pass
			-20	12.0	5787.993	5725 to 5850	Pass
			-10	12.0	5787.995	5725 to 5850	Pass
			0	12.0	5787.995	5725 to 5850	Pass
			10	12.0	5787.996	5725 to 5850	Pass
			30	12.0	5787.995	5725 to 5850	Pass
			40	12.0	5787.996	5725 to 5850	Pass
			50	12.0	5787.993	5725 to 5850	Pass
		5847	20	10.2	5846.993	5725 to 5850	Pass
				12.0	5847.000	5725 to 5850	Pass
				13.8	5846.995	5725 to 5850	Pass
			-30	12.0	5846.996	5725 to 5850	Pass
			-20	12.0	5846.995	5725 to 5850	Pass
			-10	12.0	5846.997	5725 to 5850	Pass
			0	12.0	5846.999	5725 to 5850	Pass
			10	12.0	5846.996	5725 to 5850	Pass
			30	12.0	5846.999	5725 to 5850	Pass
			40	12.0	5846.997	5725 to 5850	Pass
			50	12.0	5846.996	5725 to 5850	Pass
16QAM	MIMO	5728	20	10.2	5727.999	5725 to 5850	Pass

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1.4MHz				12.0	5727.992	5725 to 5850	Pass
				13.8	5727.993	5725 to 5850	Pass
			-30	12.0	5727.996	5725 to 5850	Pass
			-20	12.0	5727.992	5725 to 5850	Pass
			-10	12.0	5727.996	5725 to 5850	Pass
			0	12.0	5727.990	5725 to 5850	Pass
			10	12.0	5727.990	5725 to 5850	Pass
			30	12.0	5727.995	5725 to 5850	Pass
			40	12.0	5727.993	5725 to 5850	Pass
			50	12.0	5727.993	5725 to 5850	Pass
		5788	20	10.2	5787.993	5725 to 5850	Pass
				12.0	5787.994	5725 to 5850	Pass
				13.8	5787.993	5725 to 5850	Pass
			-30	12.0	5787.992	5725 to 5850	Pass
			-20	12.0	5787.990	5725 to 5850	Pass
			-10	12.0	5787.991	5725 to 5850	Pass
			0	12.0	5787.993	5725 to 5850	Pass
			10	12.0	5787.990	5725 to 5850	Pass
			30	12.0	5787.999	5725 to 5850	Pass
			40	12.0	5787.997	5725 to 5850	Pass
			50	12.0	5787.991	5725 to 5850	Pass
		5847	20	10.2	5846.995	5725 to 5850	Pass
				12.0	5846.996	5725 to 5850	Pass
				13.8	5846.997	5725 to 5850	Pass
			-30	12.0	5846.996	5725 to 5850	Pass
			-20	12.0	5846.995	5725 to 5850	Pass
			-10	12.0	5846.997	5725 to 5850	Pass
			0	12.0	5846.999	5725 to 5850	Pass
			10	12.0	5846.996	5725 to 5850	Pass
			30	12.0	5846.998	5725 to 5850	Pass
			40	12.0	5846.996	5725 to 5850	Pass
			50	12.0	5846.997	5725 to 5850	Pass

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Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
QPSK 10MHz	MIMO	5733	20	10.2	5733.020	5725 to 5850	Pass
				12.0	5733.020	5725 to 5850	Pass
				13.8	5733.020	5725 to 5850	Pass
			-30	12.0	5733.010	5725 to 5850	Pass
			-20	12.0	5733.010	5725 to 5850	Pass
			-10	12.0	5733.020	5725 to 5850	Pass
			0	12.0	5733.000	5725 to 5850	Pass
			10	12.0	5733.010	5725 to 5850	Pass
			30	12.0	5733.000	5725 to 5850	Pass
			40	12.0	5733.030	5725 to 5850	Pass
			50	12.0	5733.010	5725 to 5850	Pass
		5788	20	10.2	5788.000	5725 to 5850	Pass
				12.0	5788.020	5725 to 5850	Pass
				13.8	5788.030	5725 to 5850	Pass
			-30	12.0	5788.010	5725 to 5850	Pass
			-20	12.0	5788.010	5725 to 5850	Pass
			-10	12.0	5788.020	5725 to 5850	Pass
			0	12.0	5788.010	5725 to 5850	Pass
			10	12.0	5788.020	5725 to 5850	Pass
			30	12.0	5788.000	5725 to 5850	Pass
			40	12.0	5788.010	5725 to 5850	Pass
			50	12.0	5788.030	5725 to 5850	Pass
		5842	20	10.2	5842.010	5725 to 5850	Pass
				12.0	5842.000	5725 to 5850	Pass
				13.8	5842.020	5725 to 5850	Pass
			-30	12.0	5842.010	5725 to 5850	Pass
			-20	12.0	5842.030	5725 to 5850	Pass
			-10	12.0	5842.020	5725 to 5850	Pass
			0	12.0	5842.030	5725 to 5850	Pass
			10	12.0	5842.010	5725 to 5850	Pass
			30	12.0	5842.020	5725 to 5850	Pass
			40	12.0	5842.020	5725 to 5850	Pass
			50	12.0	5842.020	5725 to 5850	Pass
16QAM	MIMO	5733	20	10.2	5733.010	5725 to 5850	Pass

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10MHz				12.0	5733.030	5725 to 5850	Pass
				13.8	5733.010	5725 to 5850	Pass
			-30	12.0	5733.030	5725 to 5850	Pass
			-20	12.0	5733.010	5725 to 5850	Pass
			-10	12.0	5733.000	5725 to 5850	Pass
			0	12.0	5733.030	5725 to 5850	Pass
			10	12.0	5733.010	5725 to 5850	Pass
			30	12.0	5733.000	5725 to 5850	Pass
			40	12.0	5733.020	5725 to 5850	Pass
			50	12.0	5733.010	5725 to 5850	Pass
		5788	20	10.2	5788.010	5725 to 5850	Pass
				12.0	5788.020	5725 to 5850	Pass
				13.8	5787.990	5725 to 5850	Pass
			-30	12.0	5788.020	5725 to 5850	Pass
			-20	12.0	5788.020	5725 to 5850	Pass
			-10	12.0	5788.030	5725 to 5850	Pass
			0	12.0	5788.000	5725 to 5850	Pass
			10	12.0	5788.000	5725 to 5850	Pass
			30	12.0	5788.020	5725 to 5850	Pass
			40	12.0	5788.020	5725 to 5850	Pass
			50	12.0	5788.020	5725 to 5850	Pass
		5842	20	10.2	5842.020	5725 to 5850	Pass
				12.0	5842.020	5725 to 5850	Pass
				13.8	5842.010	5725 to 5850	Pass
			-30	12.0	5842.030	5725 to 5850	Pass
			-20	12.0	5842.020	5725 to 5850	Pass
			-10	12.0	5842.010	5725 to 5850	Pass
			0	12.0	5842.030	5725 to 5850	Pass
			10	12.0	5842.020	5725 to 5850	Pass
			30	12.0	5842.030	5725 to 5850	Pass
			40	12.0	5842.020	5725 to 5850	Pass
			50	12.0	5842.000	5725 to 5850	Pass

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Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
QPSK 20MHz	MIMO	5738	20	10.2	5737.980	5725 to 5850	Pass
				12.0	5738.040	5725 to 5850	Pass
				13.8	5738.000	5725 to 5850	Pass
			-30	12.0	5737.980	5725 to 5850	Pass
			-20	12.0	5738.000	5725 to 5850	Pass
			-10	12.0	5737.980	5725 to 5850	Pass
			0	12.0	5737.980	5725 to 5850	Pass
			10	12.0	5738.000	5725 to 5850	Pass
			30	12.0	5738.020	5725 to 5850	Pass
			40	12.0	5737.960	5725 to 5850	Pass
			50	12.0	5737.960	5725 to 5850	Pass
		5789	20	10.2	5789.020	5725 to 5850	Pass
				12.0	5789.020	5725 to 5850	Pass
				13.8	5788.980	5725 to 5850	Pass
			-30	12.0	5789.000	5725 to 5850	Pass
			-20	12.0	5789.020	5725 to 5850	Pass
			-10	12.0	5789.020	5725 to 5850	Pass
			0	12.0	5789.040	5725 to 5850	Pass
			10	12.0	5789.020	5725 to 5850	Pass
			30	12.0	5789.000	5725 to 5850	Pass
			40	12.0	5789.000	5725 to 5850	Pass
			50	12.0	5788.980	5725 to 5850	Pass
		5839	20	10.2	5839.040	5725 to 5850	Pass
				12.0	5839.000	5725 to 5850	Pass
				13.8	5838.980	5725 to 5850	Pass
			-30	12.0	5839.000	5725 to 5850	Pass
			-20	12.0	5839.020	5725 to 5850	Pass
			-10	12.0	5839.020	5725 to 5850	Pass
			0	12.0	5839.020	5725 to 5850	Pass
			10	12.0	5839.000	5725 to 5850	Pass
			30	12.0	5839.020	5725 to 5850	Pass
			40	12.0	5839.020	5725 to 5850	Pass
			50	12.0	5839.000	5725 to 5850	Pass
16QAM	MIMO	5738	20	10.2	5738.000	5725 to 5850	Pass

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20MHz				12.0	5738.000	5725 to 5850	Pass
				13.8	5738.020	5725 to 5850	Pass
			-30	12.0	5738.000	5725 to 5850	Pass
			-20	12.0	5738.000	5725 to 5850	Pass
			-10	12.0	5738.000	5725 to 5850	Pass
			0	12.0	5737.980	5725 to 5850	Pass
			10	12.0	5738.000	5725 to 5850	Pass
			30	12.0	5737.980	5725 to 5850	Pass
			40	12.0	5738.020	5725 to 5850	Pass
			50	12.0	5738.000	5725 to 5850	Pass
		5789	20	10.2	5789.040	5725 to 5850	Pass
				12.0	5789.020	5725 to 5850	Pass
				13.8	5789.000	5725 to 5850	Pass
			-30	12.0	5789.020	5725 to 5850	Pass
			-20	12.0	5789.020	5725 to 5850	Pass
			-10	12.0	5789.020	5725 to 5850	Pass
			0	12.0	5789.040	5725 to 5850	Pass
			10	12.0	5789.020	5725 to 5850	Pass
			30	12.0	5789.000	5725 to 5850	Pass
			40	12.0	5789.020	5725 to 5850	Pass
			50	12.0	5788.980	5725 to 5850	Pass
		5839	20	10.2	5839.020	5725 to 5850	Pass
				12.0	5838.980	5725 to 5850	Pass
				13.8	5839.000	5725 to 5850	Pass
			-30	12.0	5839.000	5725 to 5850	Pass
			-20	12.0	5838.980	5725 to 5850	Pass
			-10	12.0	5839.000	5725 to 5850	Pass
			0	12.0	5839.000	5725 to 5850	Pass
			10	12.0	5838.980	5725 to 5850	Pass
			30	12.0	5839.020	5725 to 5850	Pass
			40	12.0	5839.020	5725 to 5850	Pass
			50	12.0	5839.020	5725 to 5850	Pass

Note: All antenna were tested, and only the worst cases were reported in the test report and external antl was the worst case.

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

5G wifi

FPC antennas used. The gain of the antennas is 4.0dBi maximum. (Get from the antenna specification)

5G transfer image

Two external antennas used. The gain of the antennas is 5.0dBi for each one (Get from the antenna specification) and two PCB antennas used. The gain of the antennas is 3.0dBi for each one (Get from the antenna specification)

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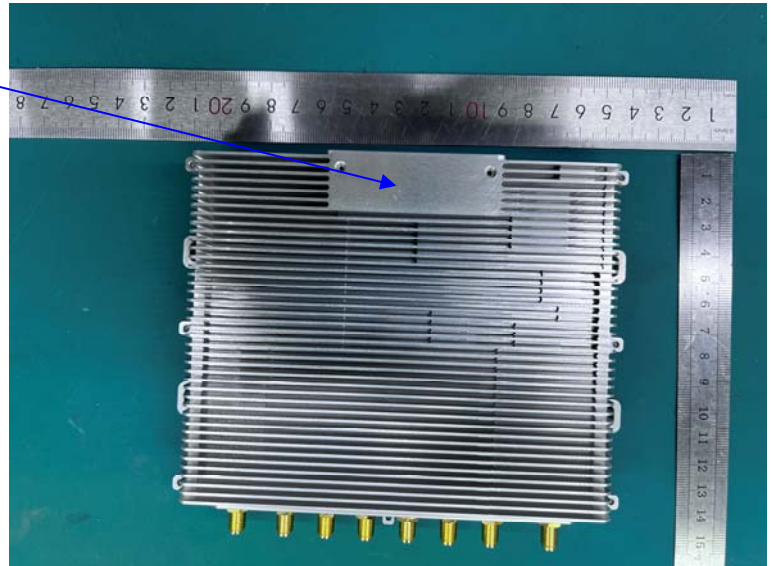
12.0 FCC ID Label

FCC ID: 2AGNTNEST

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Radiated Emission Test Setup

Below 1GHz



Above 1GHz



Photos of EUT

Please see test report TW2306621-01E

--End of the report--

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