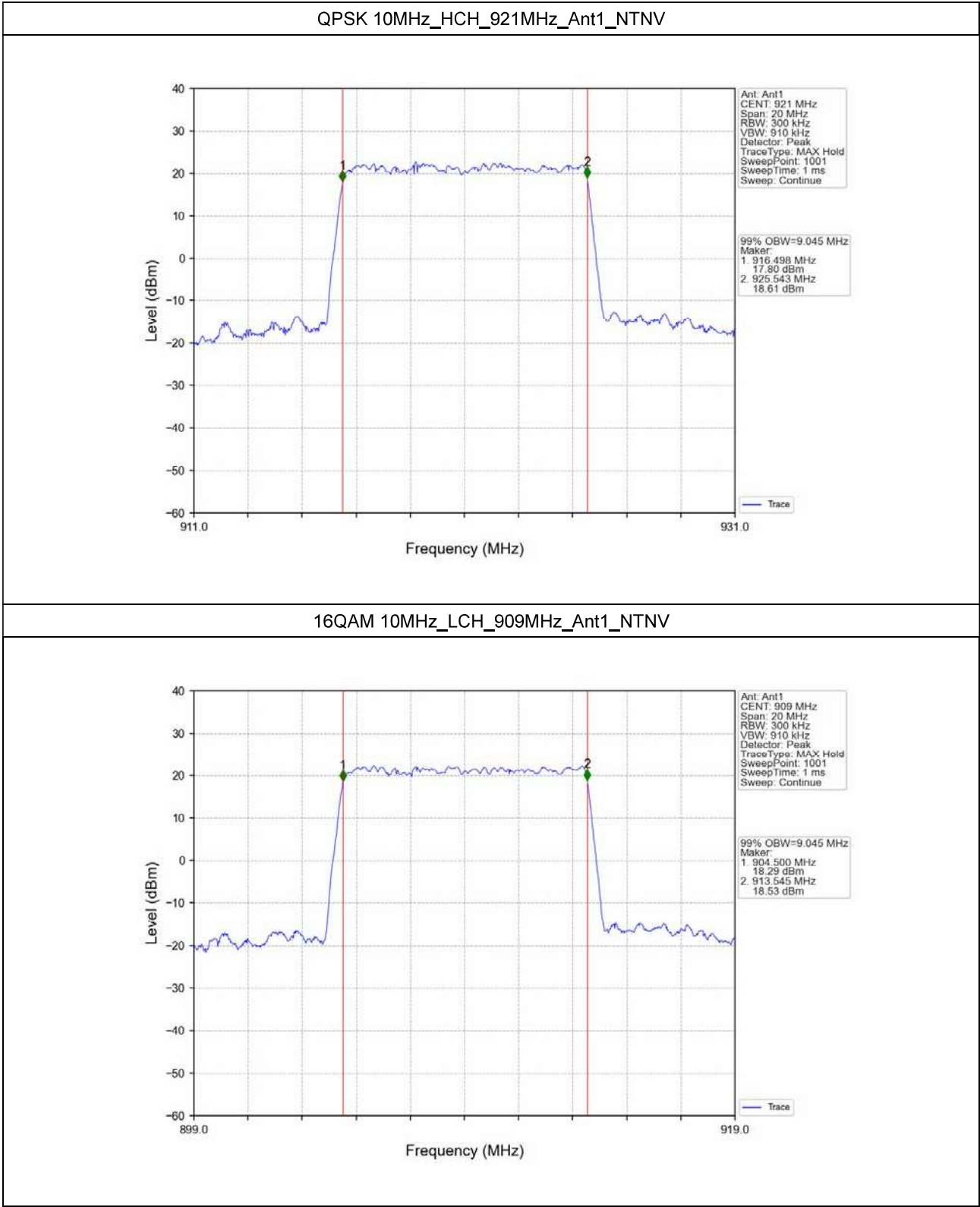


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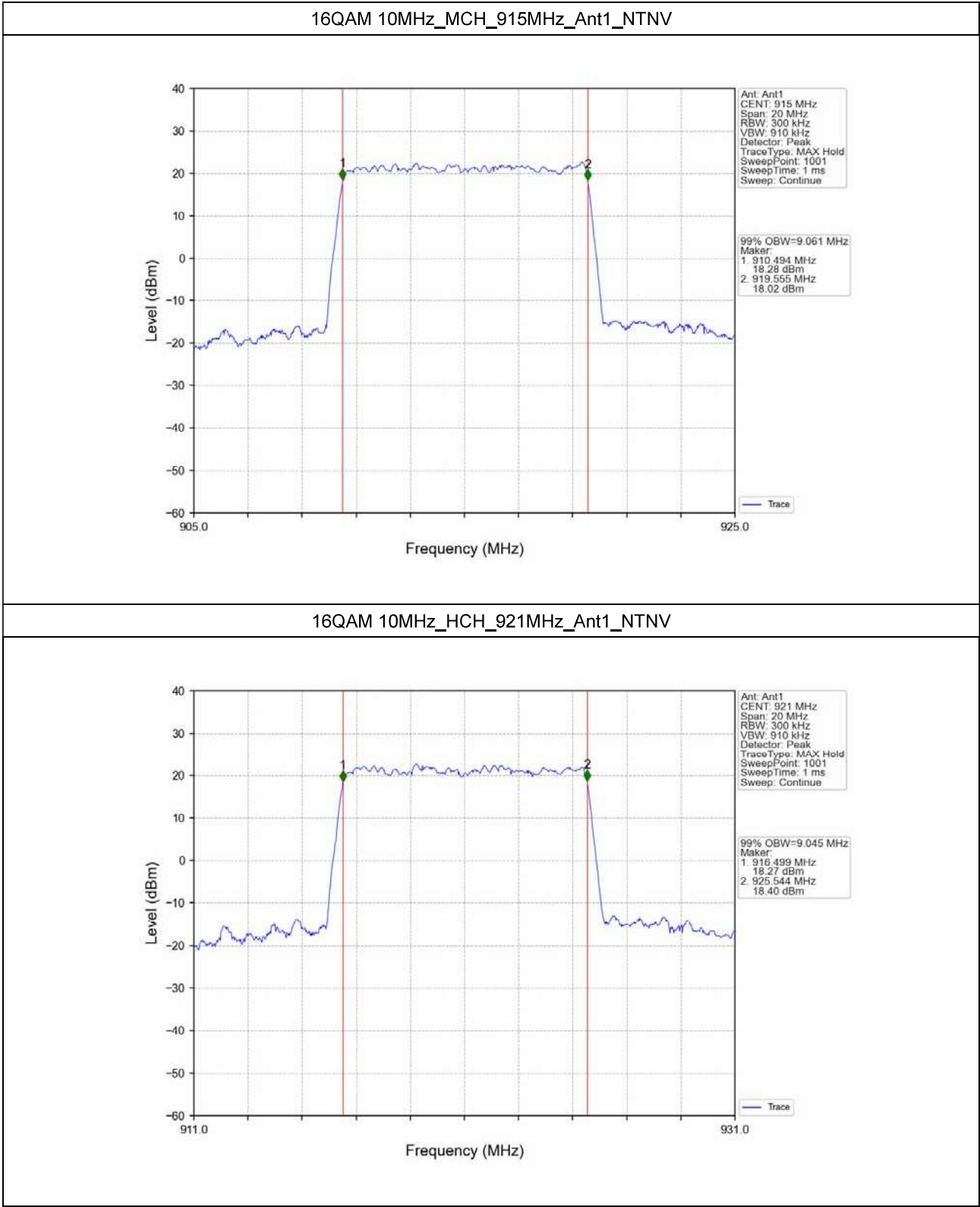
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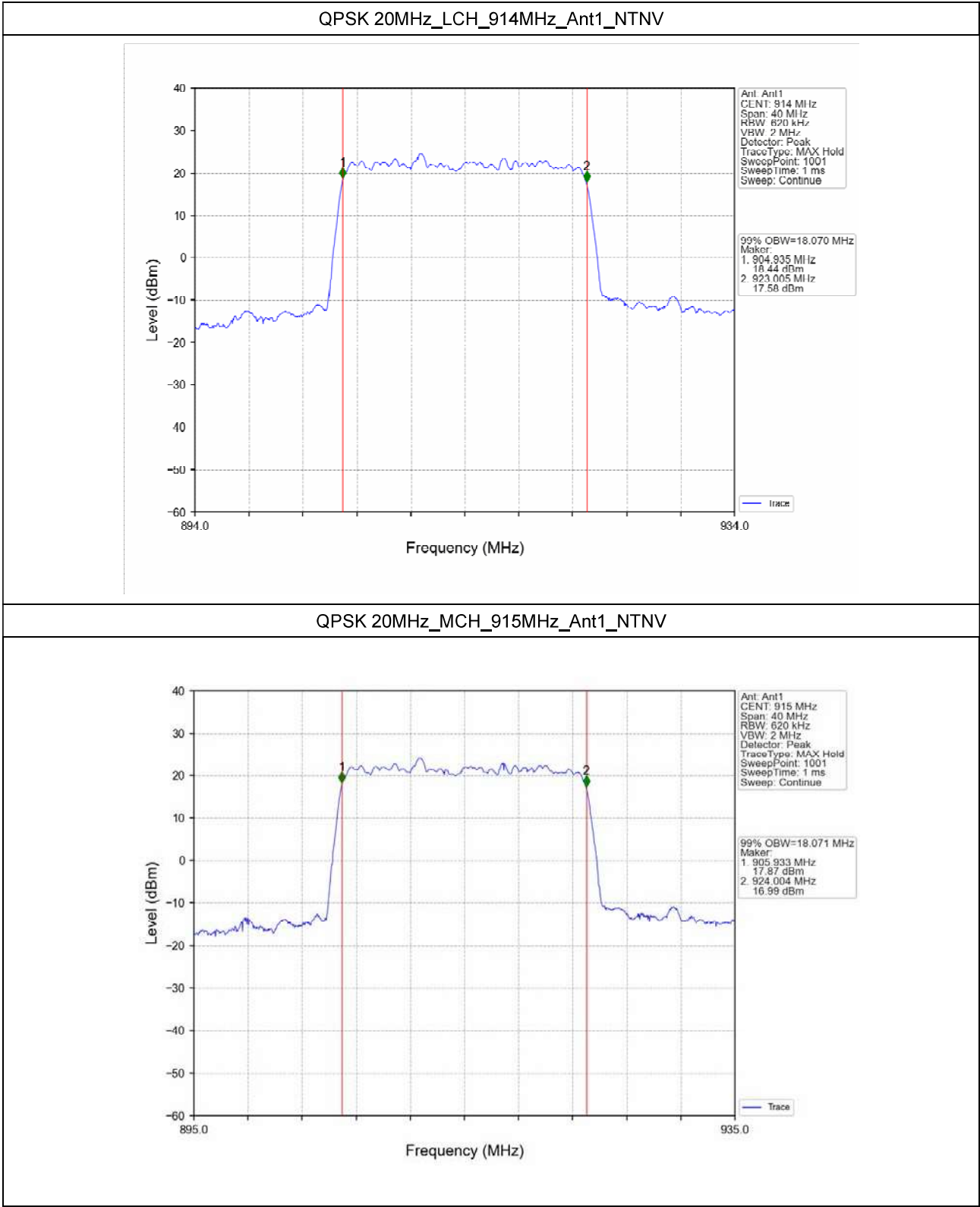
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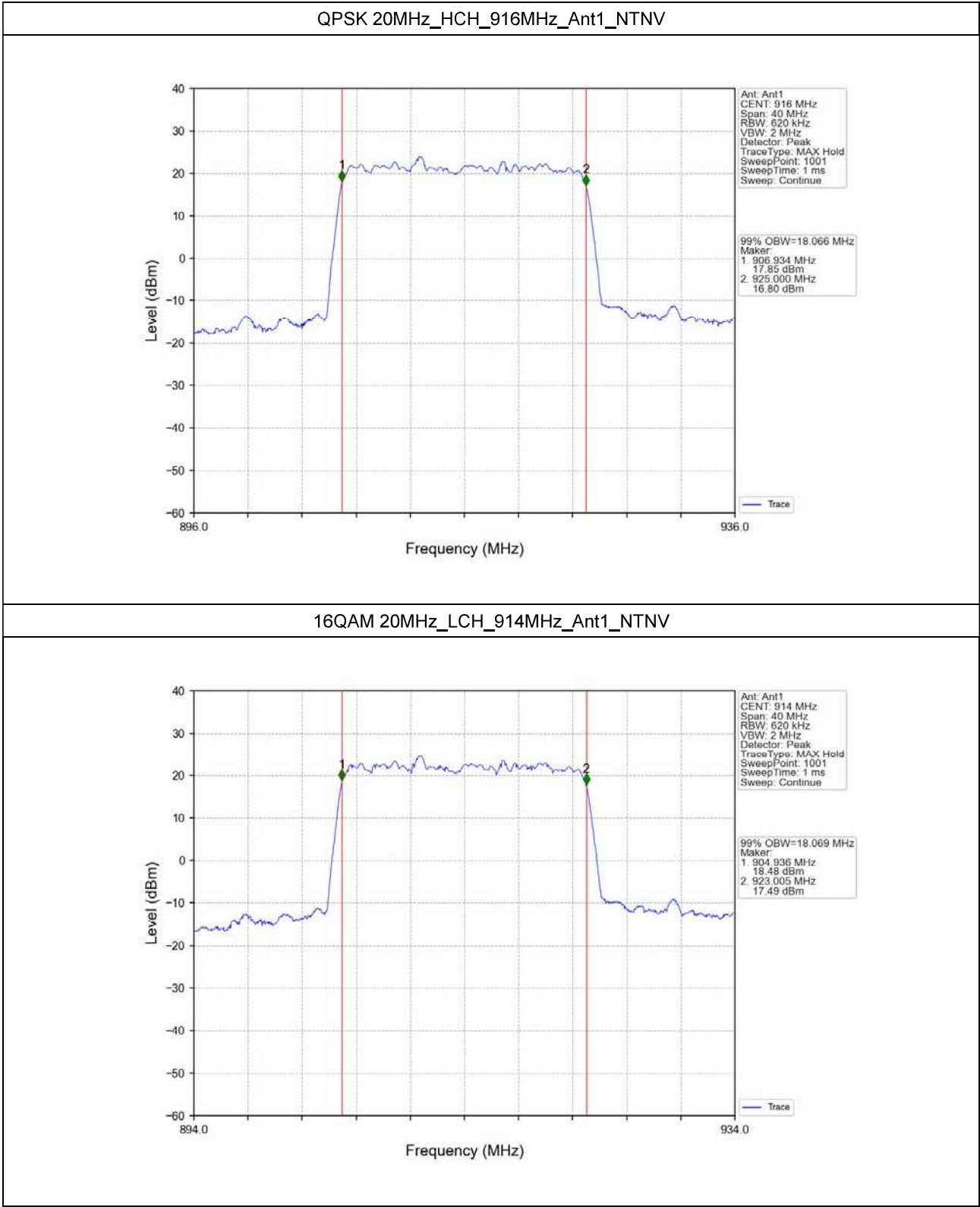
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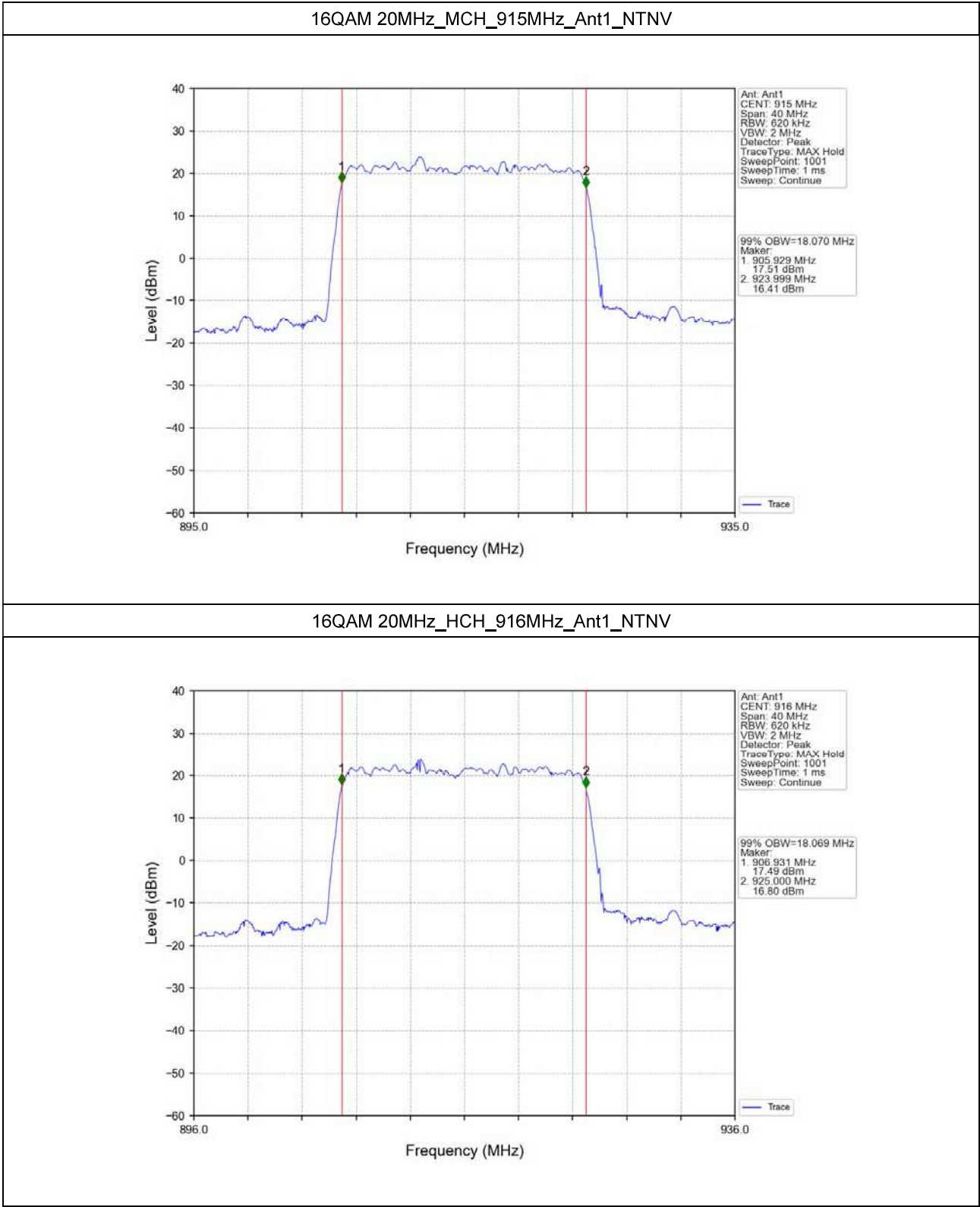


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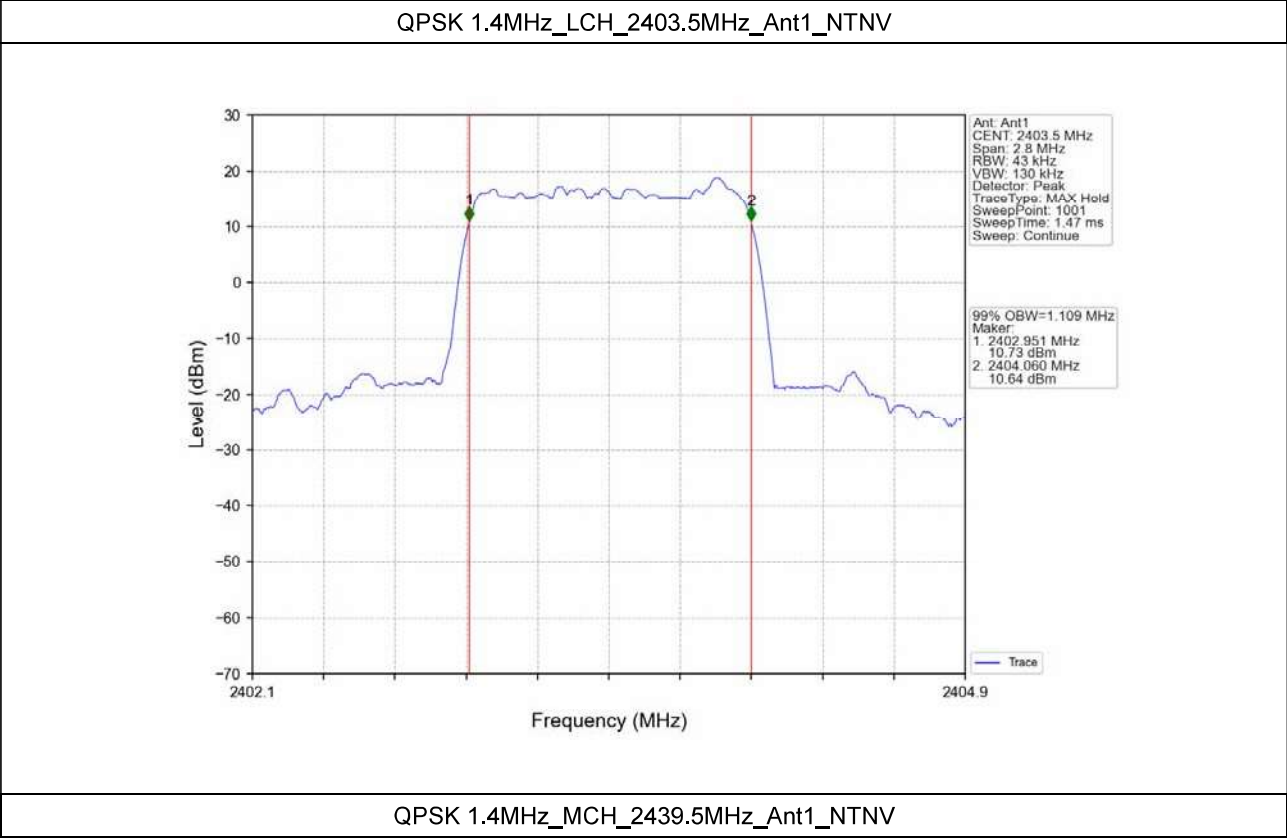
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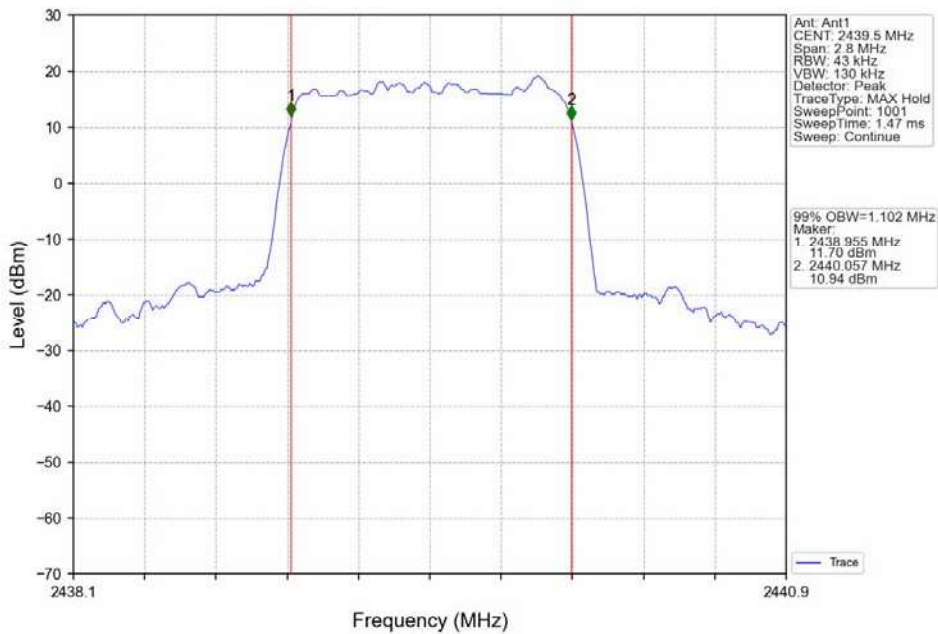
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2.4G transfer image



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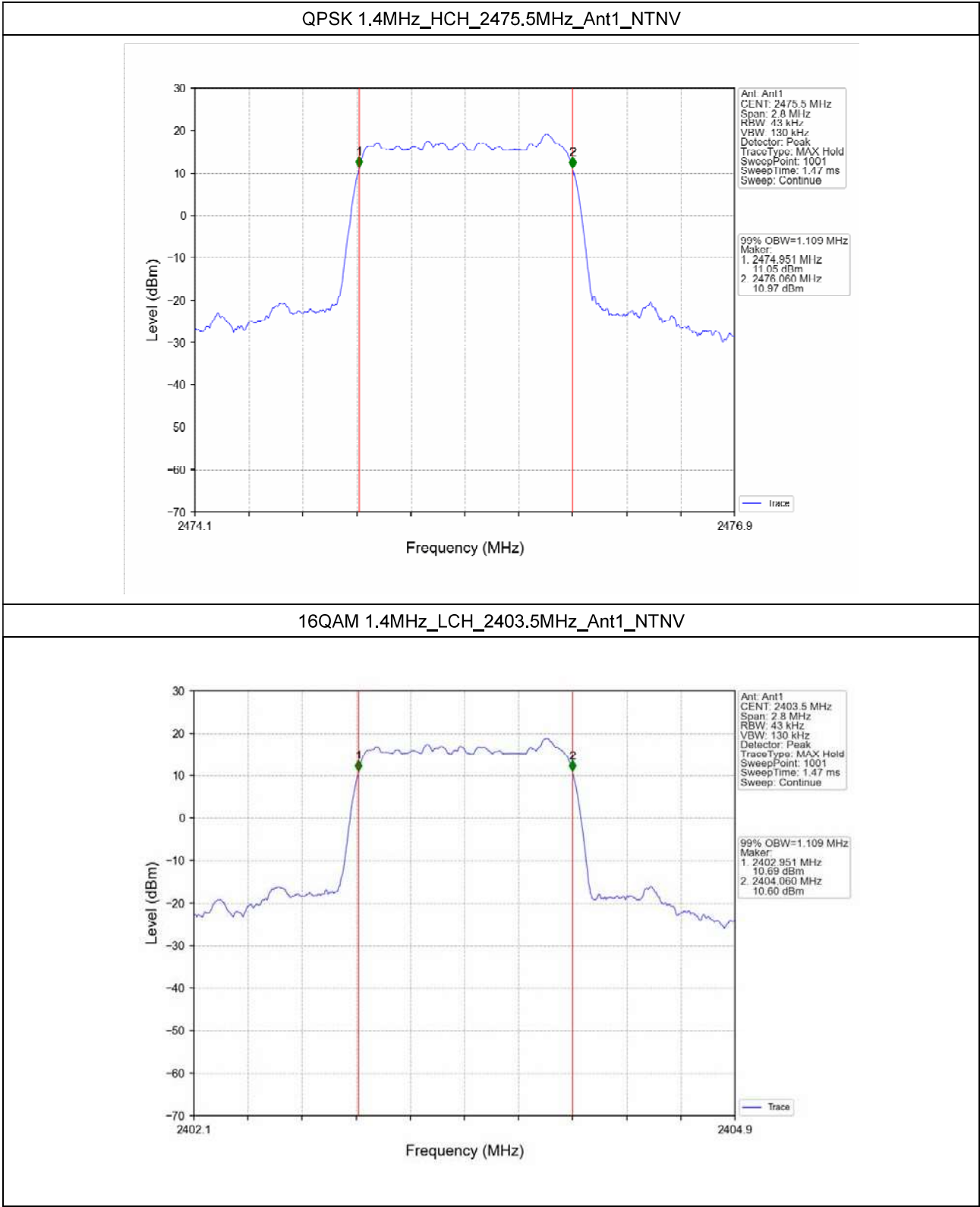


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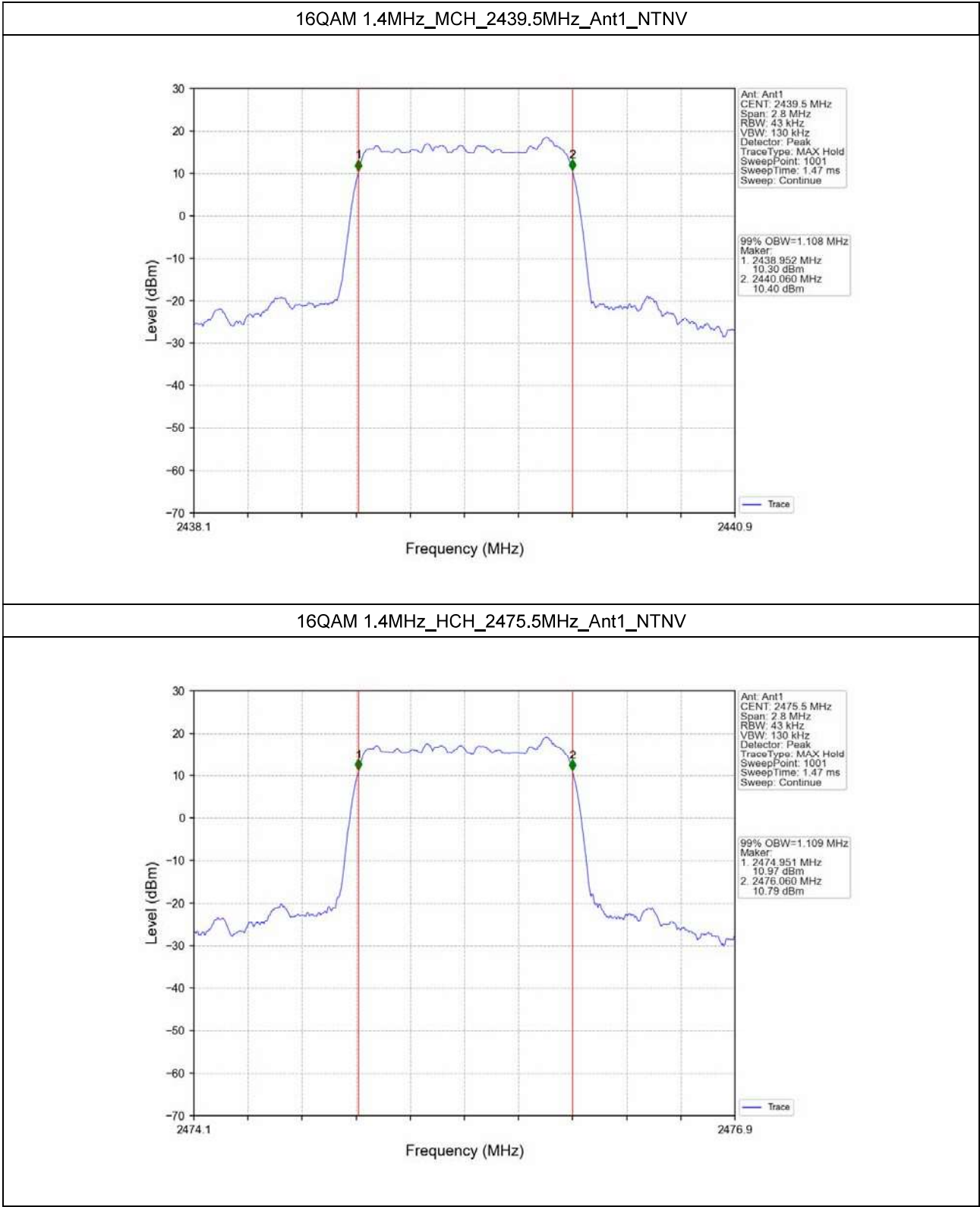




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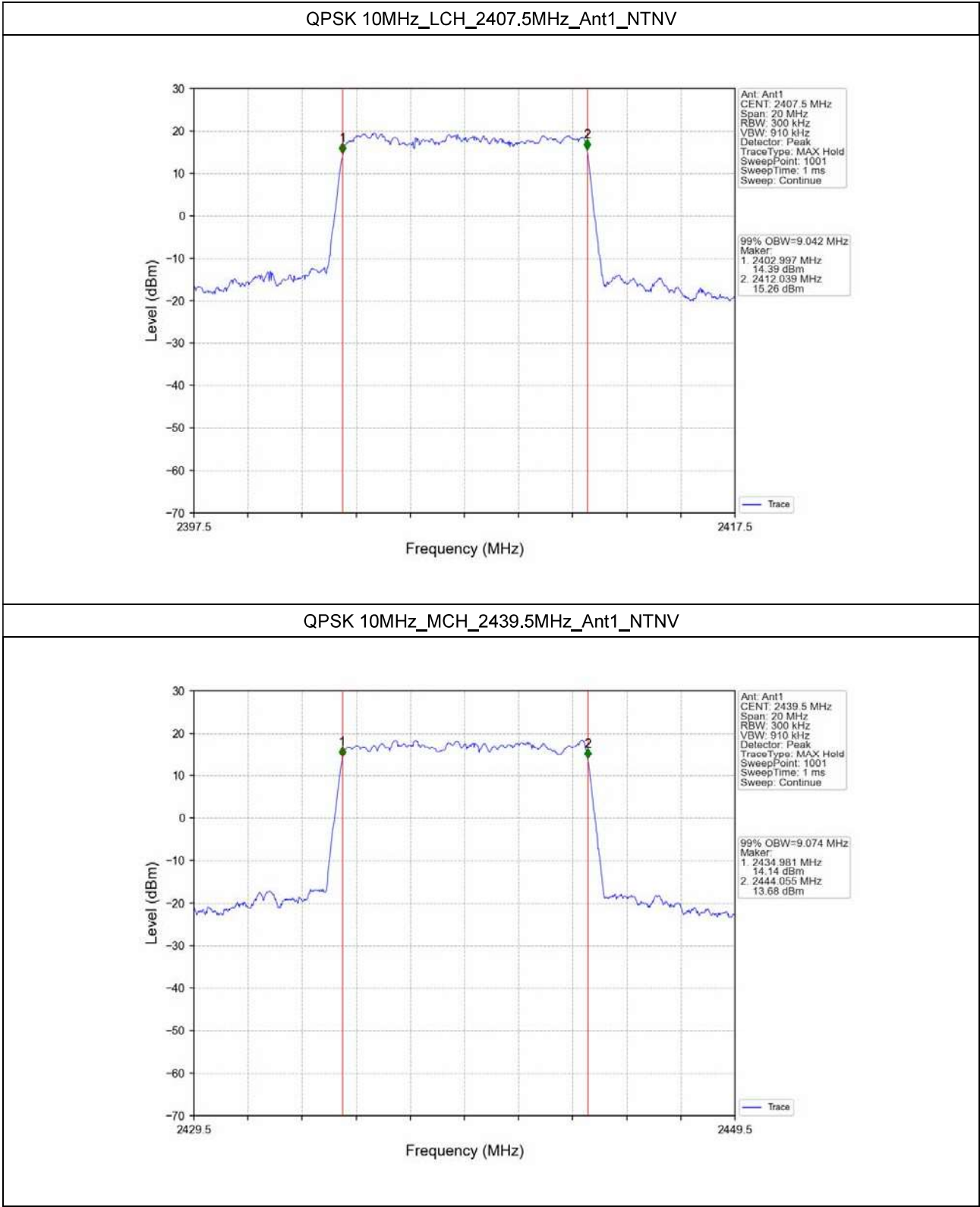
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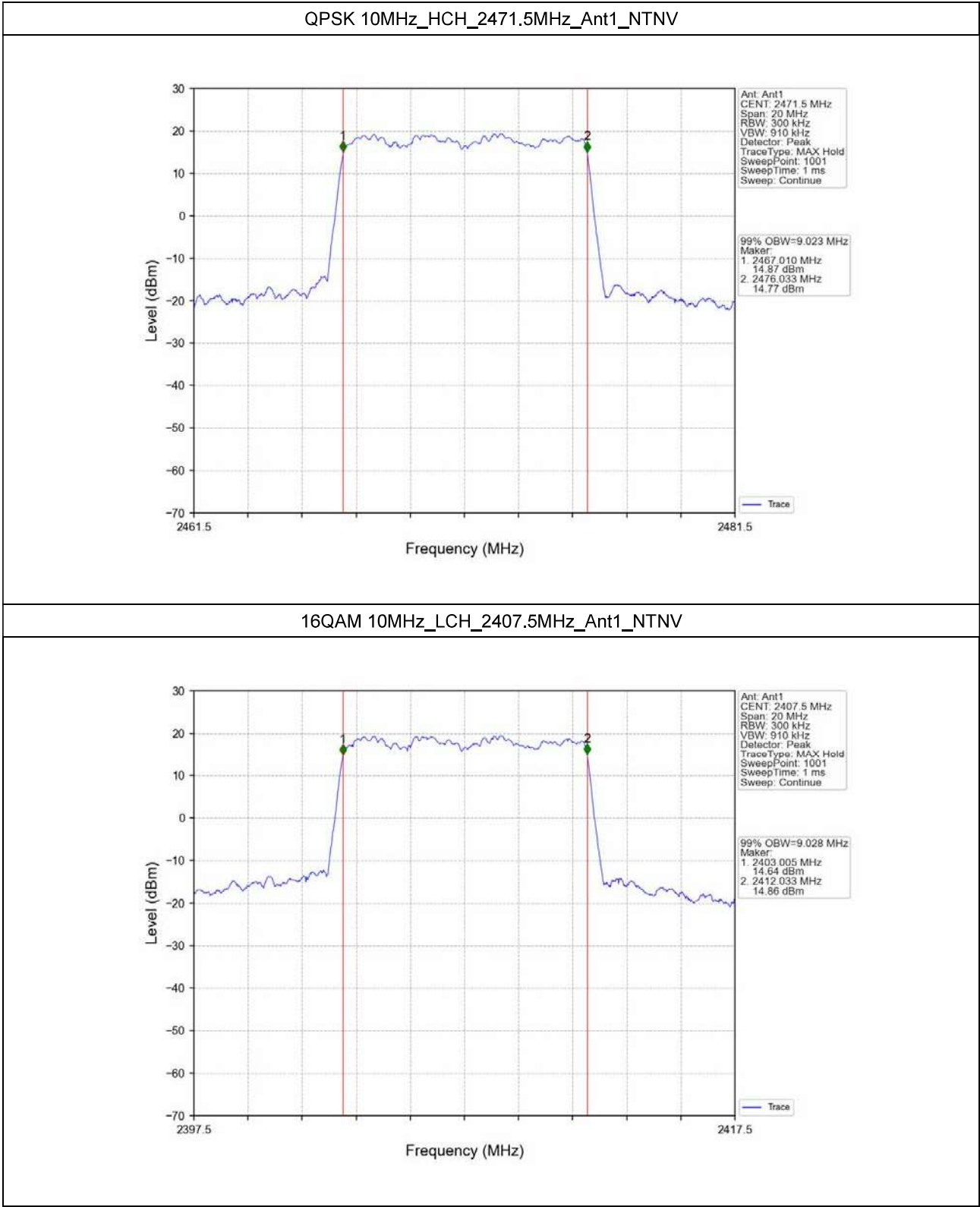
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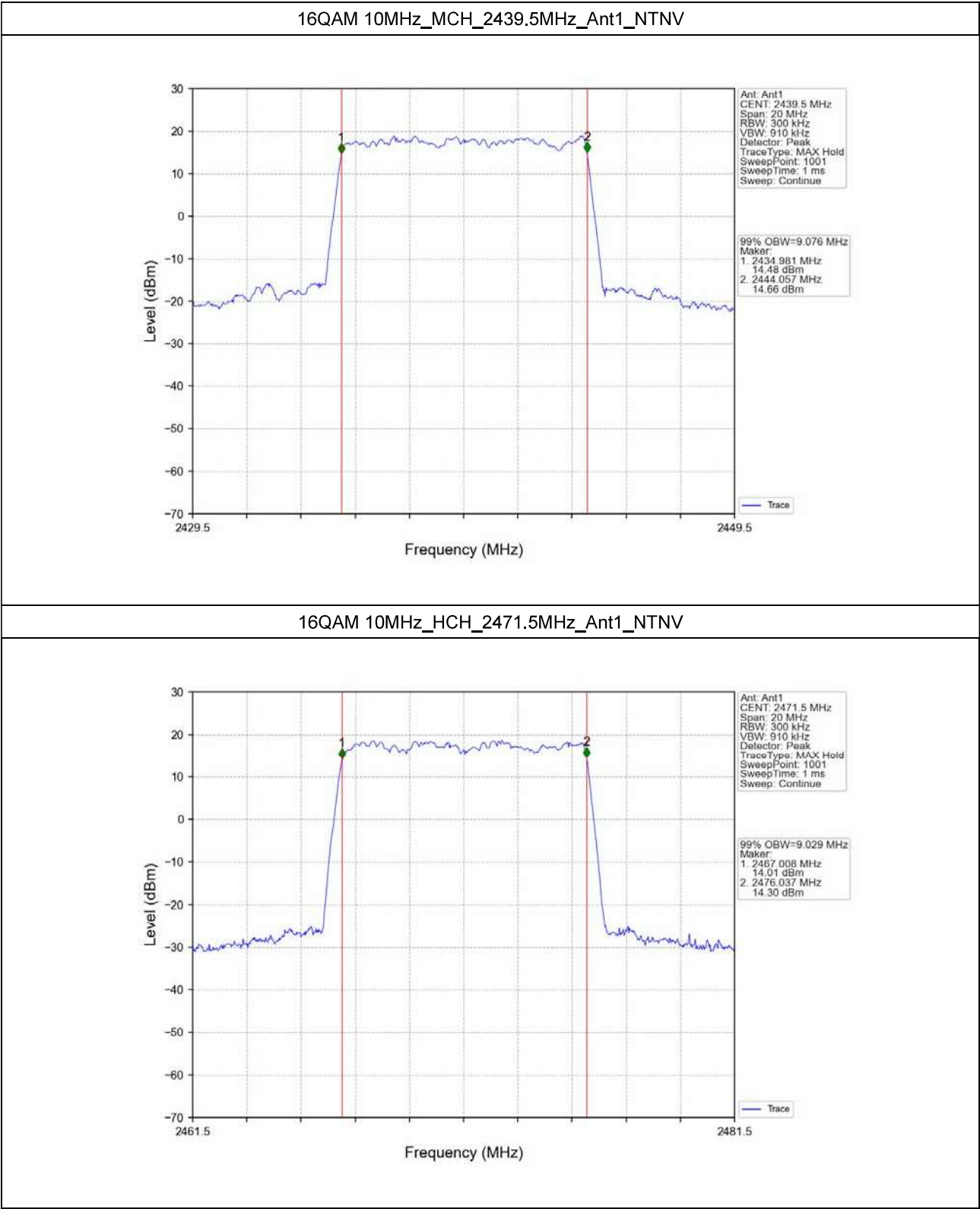
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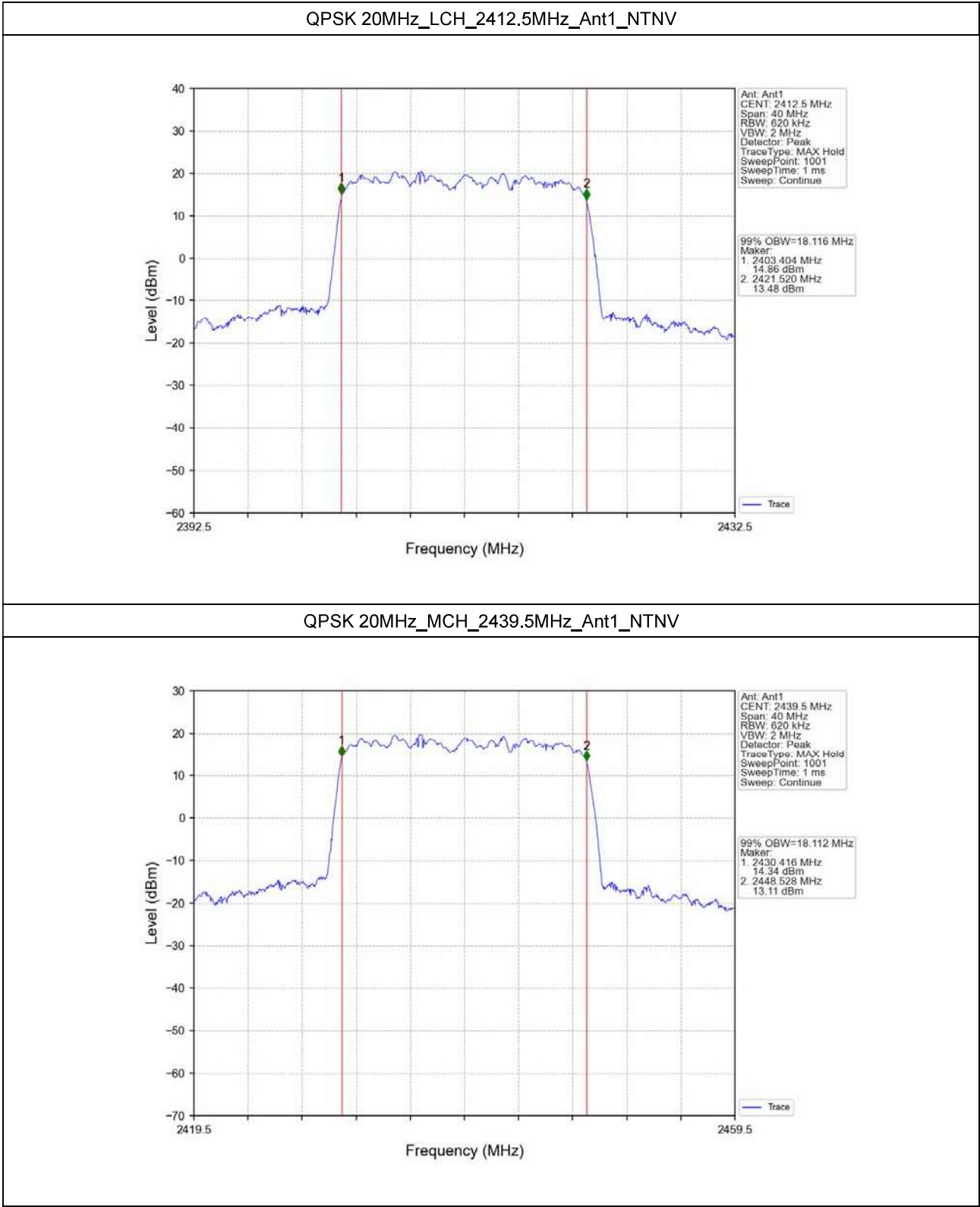


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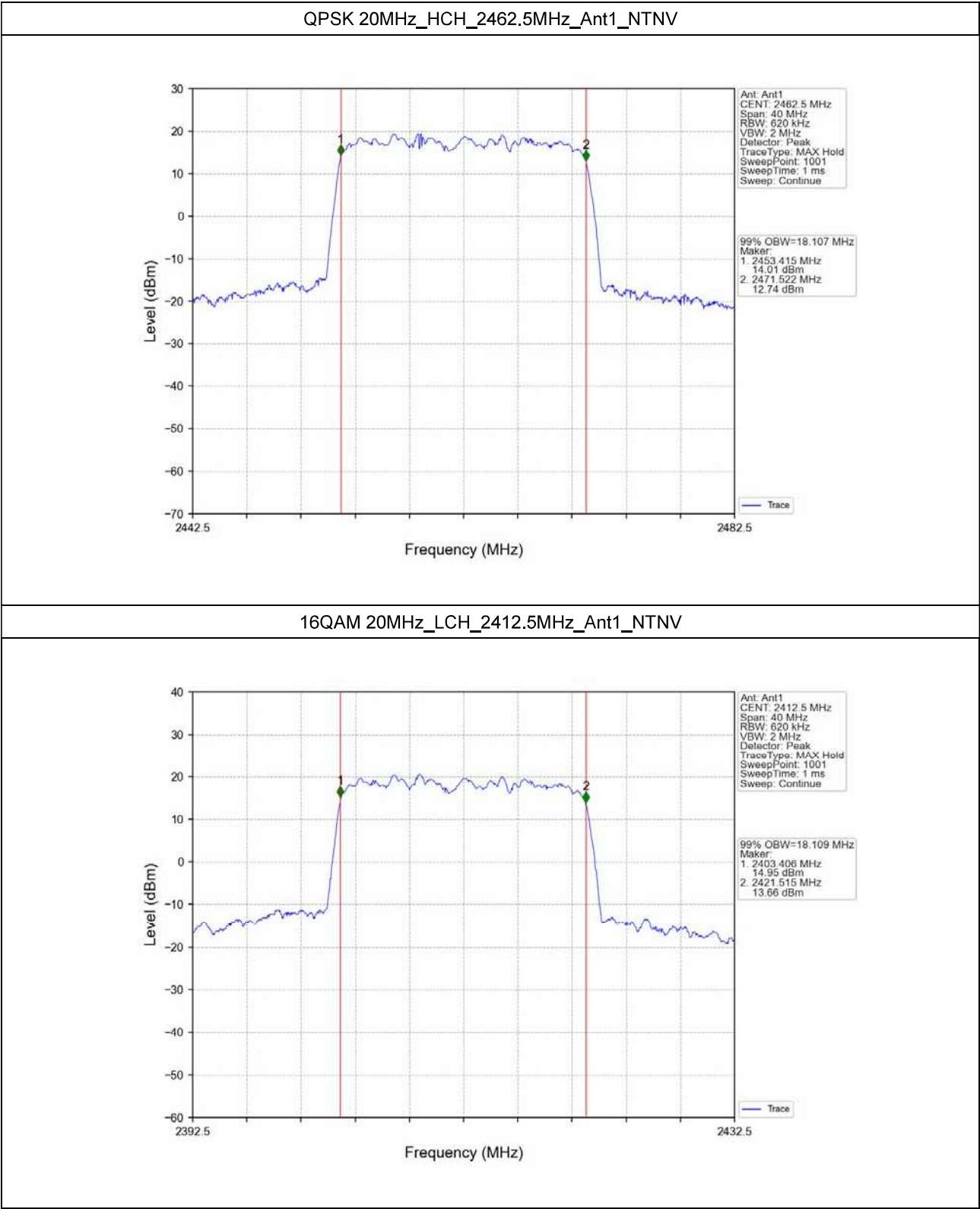




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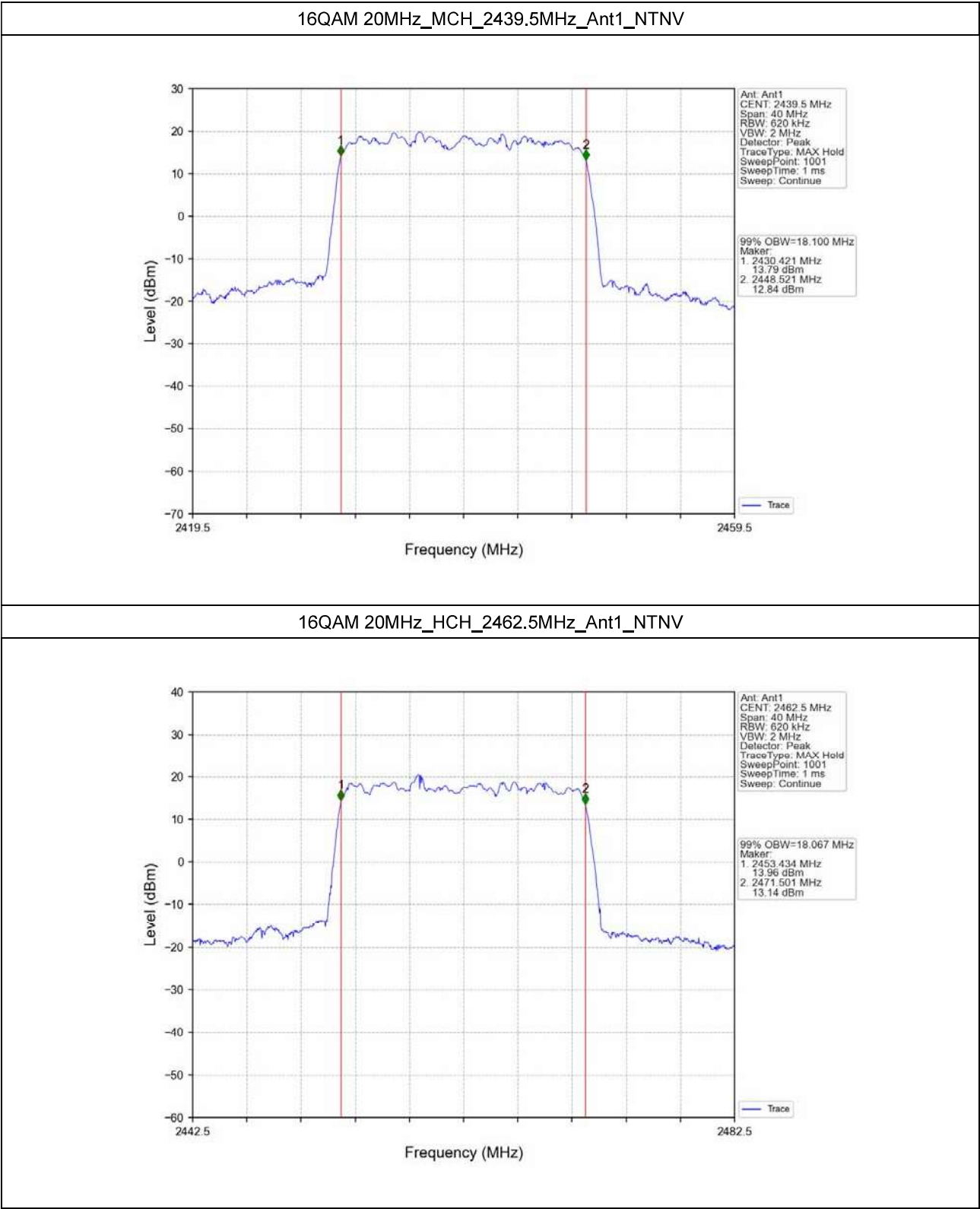
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16QAM 20MHz\_HCH\_2462.5MHz\_Ant1\_NTNV

Ant: Ant1  
CENT: 2462.5 MHz  
Span: 40 MHz  
RBW: 620 kHz  
VBW: 2 MHz  
Detector: Peak  
TraceType: MAX Hold  
SweepPoint: 1001  
SweepTime: 1 ms  
Sweep: Continue99% OBW=18.067 MHz  
Maker:  
1. 2453.434 MHz  
13.96 dBm  
2. 2471.501 MHz  
13.14 dBm

Trace

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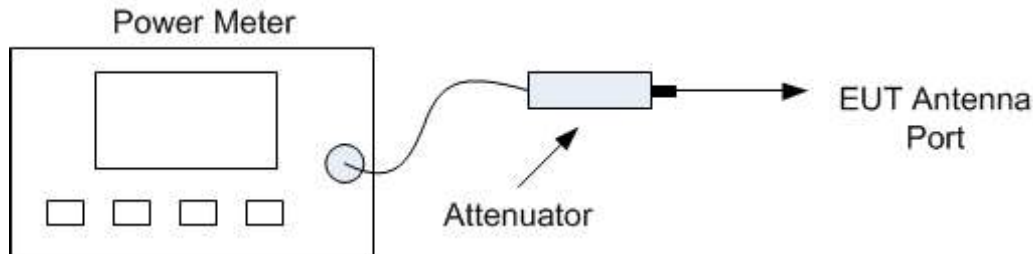
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## 8.0 Maximum Output Power and equivalent isotropically radiated power (e.i.r.p.)

### 8.1 Test Setup



### 8.2 Limits

The Maximum Output Power limit is 30dBm and e.i.r.p limit is 36dBm

### 8.3 Test Procedure

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 8.4Test Results

2.4G wifi

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		EIRP(dBm)		Verdict
			ANT1	Limit	ANT1	Limit	
802.11b	SISO	2412	21.33	<=29.3	28.03	<=36	Pass
		2437	21.71	<=29.3	28.41	<=36	Pass
		2462	21.53	<=29.3	28.23	<=36	Pass
802.11g	SISO	2412	15.40	<=29.3	22.10	<=36	Pass
		2437	15.59	<=29.3	22.29	<=36	Pass
		2462	15.50	<=29.3	22.20	<=36	Pass
802.11n (HT20)	SISO	2412	16.95	<=29.3	23.65	<=36	Pass
		2437	17.16	<=29.3	23.86	<=36	Pass
		2462	16.99	<=29.3	23.69	<=36	Pass

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### 900M transfer image

For External Antenna

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 1.4MHz	MIMO	904	22.15	21.08	24.66	<=30	29.96	<=36	Pass
		915	21.92	20.22	24.16	<=30	29.16	<=36	Pass
		926	22.45	19.31	24.17	<=30	29.17	<=36	Pass
16QAM 1.4MHz	MIMO	904	22.13	21.05	24.63	<=30	29.96	<=36	Pass
		915	21.90	20.18	24.13	<=30	29.13	<=36	Pass
		926	22.21	19.15	23.95	<=30	28.95	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 10MHz	MIMO	909	22.45	20.66	24.66	<=30	29.86	<=36	Pass
		915	22.58	20.61	24.72	<=30	29.72	<=36	Pass
		921	22.58	20.21	24.57	<=30	29.57	<=36	Pass
16QAM 10MHz	MIMO	909	22.53	20.78	24.75	<=30	29.75	<=36	Pass
		915	22.53	20.59	24.68	<=30	29.68	<=36	Pass
		921	22.53	20.19	24.53	<=30	29.53	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 20MHz	MIMO	914	22.47	21.16	24.87	<=30	30.17	<=36	Pass
		915	22.25	20.24	24.37	<=30	29.37	<=36	Pass
		916	22.16	20.03	24.23	<=30	29.23	<=36	Pass
16QAM 20MHz	MIMO	914	22.38	21.12	24.81	<=30	30.15	<=36	Pass
		915	22.15	20.13	24.27	<=30	29.27	<=36	Pass
		916	22.11	20.03	24.20	<=30	29.20	<=36	Pass

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 1.4MHz	MIMO	904	22.32	21.25	24.83	<=30	27.93	<=36	Pass
		915	21.64	19.94	23.88	<=30	26.98	<=36	Pass
		926	22.28	19.14	24.00	<=30	27.10	<=36	Pass
16QAM 1.4MHz	MIMO	904	22.14	21.06	24.64	<=30	27.74	<=36	Pass
		915	21.66	19.94	23.89	<=30	26.99	<=36	Pass
		926	22.00	18.94	23.74	<=30	26.84	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 10MHz	MIMO	909	22.41	20.62	24.62	<=30	27.72	<=36	Pass
		915	22.41	20.44	24.55	<=30	27.65	<=36	Pass
		921	22.25	19.88	24.24	<=30	27.34	<=36	Pass
16QAM 10MHz	MIMO	909	22.27	20.52	24.49	<=30	27.59	<=36	Pass
		915	22.22	20.28	24.37	<=30	27.47	<=36	Pass
		921	22.28	19.94	24.28	<=30	27.38	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 20MHz	MIMO	914	22.82	21.01	25.02	<=30	28.12	<=36	Pass
		915	22.06	20.05	24.18	<=30	27.28	<=36	Pass
		916	21.91	19.78	23.98	<=30	27.08	<=36	Pass
16QAM 20MHz	MIMO	914	22.65	20.89	24.87	<=30	27.97	<=36	Pass
		915	22.04	20.02	24.16	<=30	27.26	<=36	Pass
		916	21.93	19.85	24.02	<=30	27.12	<=36	Pass

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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## 2.4G transfer image

For External Antenna

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 1.4MHz	MIMO	2403.5	22.02	24.44	26.41	<=30	31.41	<=36	Pass
		2439.5	22.68	23.25	25.98	<=30	30.98	<=36	Pass
		2475.5	22.27	24.54	26.56	<=30	31.56	<=36	Pass
16QAM 1.4MHz	MIMO	2403.5	22.03	24.47	26.43	<=30	31.43	<=36	Pass
		2439.5	21.73	24.15	26.12	<=30	31.12	<=36	Pass
		2475.5	22.29	24.48	26.53	<=30	31.53	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 10MHz	MIMO	2407.5	23.88	25.37	27.70	<=30	<b>32.70</b>	<=36	Pass
		2439.5	22.91	24.57	26.83	<=30	31.83	<=36	Pass
		2471.5	23.62	24.77	27.24	<=30	32.24	<=36	Pass
16QAM 10MHz	MIMO	2407.5	23.82	25.36	27.67	<=30	32.67	<=36	Pass
		2439.5	23.34	24.96	27.24	<=30	32.24	<=36	Pass
		2471.5	23.25	24.08	26.70	<=30	31.70	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 20MHz	MIMO	2412.5	23.75	25.29	27.60	<=30	32.60	<=36	Pass
		2439.5	23.15	24.63	26.96	<=30	31.96	<=36	Pass
		2462.5	22.88	24.06	26.52	<=30	31.52	<=36	Pass
16QAM 20MHz	MIMO	2412.5	23.70	25.30	27.58	<=30	32.58	<=36	Pass
		2439.5	23.13	24.60	26.94	<=30	31.94	<=36	Pass
		2462.5	22.92	24.22	26.63	<=30	31.63	<=36	Pass

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 1.4MHz	MIMO	2403.5	21.74	24.16	26.13	<=30	29.23	<=36	Pass
		2439.5	22.53	23.10	25.83	<=30	28.93	<=36	Pass
		2475.5	21.94	24.21	26.23	<=30	29.33	<=36	Pass
16QAM 1.4MHz	MIMO	2403.5	21.82	24.26	26.22	<=30	29.32	<=36	Pass
		2439.5	21.64	24.06	26.03	<=30	29.13	<=36	Pass
		2475.5	22.12	24.31	26.13	<=30	29.46	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 10MHz	MIMO	2407.5	23.73	25.22	27.55	<=30	<b>30.65</b>	<=36	Pass
		2439.5	22.69	24.35	26.61	<=30	29.71	<=36	Pass
		2471.5	23.51	24.66	27.13	<=30	30.23	<=36	Pass
16QAM 10MHz	MIMO	2407.5	23.64	25.18	27.49	<=30	30.59	<=36	Pass
		2439.5	23.02	24.64	26.92	<=30	30.02	<=36	Pass
		2471.5	23.18	24.01	26.63	<=30	29.73	<=36	Pass

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)				EIRP(dBm)		Verdict
			ANT1	ANT2	MIMO	Limit	MIMO	Limit	
QPSK 20MHz	MIMO	2412.5	23.67	25.21	27.52	<=30	30.62	<=36	Pass
		2439.5	22.91	24.39	26.72	<=30	29.82	<=36	Pass
		2462.5	22.71	23.89	26.35	<=30	29.45	<=36	Pass
16QAM 20MHz	MIMO	2412.5	23.38	24.98	27.26	<=30	30.36	<=36	Pass
		2439.5	22.88	24.35	26.69	<=30	29.79	<=36	Pass
		2462.5	22.80	24.10	26.51	<=30	29.61	<=36	Pass

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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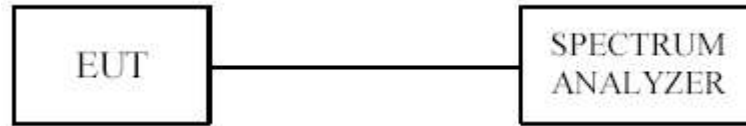
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## 9.0 Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

### 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW  $\geq$  10 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = RMS.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 9.4 Test Result

#### 2.4G wifi

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-9.87	$\leq 7.7$	Pass
		2437	-10.02	$\leq 7.7$	Pass
		2462	-9.64	$\leq 7.7$	Pass
802.11g	SISO	2412	-13.26	$\leq 7.7$	Pass
		2437	-13.26	$\leq 7.7$	Pass
		2462	-13.09	$\leq 7.7$	Pass
802.11n (HT20)	SISO	2412	-15.79	$\leq 7.7$	Pass
		2437	-15.88	$\leq 7.7$	Pass
		2462	-15.62	$\leq 7.7$	Pass

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### 900M transfer image

For External Antenna

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	904	2.75	2.06	5.43	<=8	Pass
		915	2.30	1.01	4.71	<=8	Pass
		926	3.12	-0.01	4.84	<=8	Pass
16QAM 1.4MHz	MIMO	904	2.79	2.10	5.47	<=8	Pass
		915	2.50	0.89	4.78	<=8	Pass
		926	2.93	-0.07	4.69	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	909	-3.97	-5.64	-1.72	<=8	Pass
		915	-4.15	-5.69	-1.84	<=8	Pass
		921	-5.10	-6.84	-2.88	<=8	Pass
16QAM 10MHz	MIMO	909	-3.77	-6.00	-1.74	<=8	Pass
		915	-4.30	-6.20	-2.15	<=8	Pass
		921	-4.63	-6.21	-2.33	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	914	-7.78	-9.74	-5.89	<=8	Pass
		915	-7.60	-9.77	-5.67	<=8	Pass
		916	-8.65	-10.76	-6.86	<=8	Pass
16QAM 20MHz	MIMO	914	-8.71	-11.02	-6.94	<=8	Pass
		915	-7.75	-10.41	-6.27	<=8	Pass
		916	-8.76	-10.82	-6.80	<=8	Pass

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	904	-0.18	3.03	4.72	<=8	Pass
		915	0.93	1.45	4.21	<=8	Pass
		926	0.29	3.11	4.94	<=8	Pass
16QAM 1.4MHz	MIMO	904	0.00	2.79	4.62	<=8	Pass
		915	-0.06	2.85	4.65	<=8	Pass
		926	0.25	2.89	4.78	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	909	-4.97	-6.64	-2.72	<=8	Pass
		915	-5.15	-6.69	-2.84	<=8	Pass
		921	-6.10	-7.84	-3.88	<=8	Pass
16QAM 10MHz	MIMO	909	-4.77	-7.00	-2.74	<=8	Pass
		915	-5.30	-7.20	-3.15	<=8	Pass
		921	-5.63	-7.21	-3.33	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	914	-9.08	-11.04	-7.19	<=8	Pass
		915	-8.90	-11.07	-6.97	<=8	Pass
		916	-9.95	-12.06	-8.16	<=8	Pass
16QAM 20MHz	MIMO	914	-10.01	-12.32	-8.24	<=8	Pass
		915	-9.05	-11.71	-7.57	<=8	Pass
		916	-10.06	-12.12	-8.10	<=8	Pass

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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## 2.4G transfer image

For External Antenna

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	2403.5	0.32	3.53	5.22	<=8	Pass
		2439.5	1.43	1.95	4.71	<=8	Pass
		2475.5	0.79	3.61	5.44	<=8	Pass
16QAM 1.4MHz	MIMO	2403.5	0.50	3.29	5.12	<=8	Pass
		2439.5	0.44	3.35	5.15	<=8	Pass
		2475.5	0.75	3.39	5.28	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	2407.5	0.43	2.19	3.50	<=8	Pass
		2439.5	-0.57	0.79	2.69	<=8	Pass
		2471.5	-0.22	1.12	3.24	<=8	Pass
16QAM 10MHz	MIMO	2407.5	0.72	1.89	4.17	<=8	Pass
		2439.5	-0.17	1.25	3.22	<=8	Pass
		2471.5	-0.12	0.39	2.92	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	2412.5	-1.82	0.08	1.45	<=8	Pass
		2439.5	-2.51	-0.60	1.14	<=8	Pass
		2462.5	-3.20	-2.03	0.09	<=8	Pass
16QAM 20MHz	MIMO	2412.5	-2.16	0.01	1.51	<=8	Pass
		2439.5	-2.68	-1.40	0.37	<=8	Pass
		2462.5	-2.20	-1.39	0.49	<=8	Pass

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

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For PCB Antenna

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 1.4MHz	MIMO	2403.5	0.32	3.53	5.22	<=8	Pass
		2439.5	1.43	1.95	4.71	<=8	Pass
		2475.5	0.79	3.61	5.44	<=8	Pass
16QAM 1.4MHz	MIMO	2403.5	0.50	3.29	5.12	<=8	Pass
		2439.5	0.44	3.35	5.15	<=8	Pass
		2475.5	0.75	3.39	5.28	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 10MHz	MIMO	2407.5	-0.07	1.69	3.00	<=8	Pass
		2439.5	-1.07	0.29	2.19	<=8	Pass
		2471.5	-0.72	0.62	2.74	<=8	Pass
16QAM 10MHz	MIMO	2407.5	0.22	1.39	3.67	<=8	Pass
		2439.5	-0.67	0.75	2.72	<=8	Pass
		2471.5	-2.12	-1.61	0.92	<=8	Pass

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
QPSK 20MHz	MIMO	2412.5	-2.82	-0.92	0.45	<=8	Pass
		2439.5	-3.51	-1.60	0.14	<=8	Pass
		2462.5	-4.20	-3.03	-0.91	<=8	Pass
16QAM 20MHz	MIMO	2412.5	-3.16	-0.99	0.51	<=8	Pass
		2439.5	-3.68	-2.40	-0.63	<=8	Pass
		2462.5	-3.20	-2.39	-0.51	<=8	Pass

Note1: All transmit signals are completely uncorrelated

Note2: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

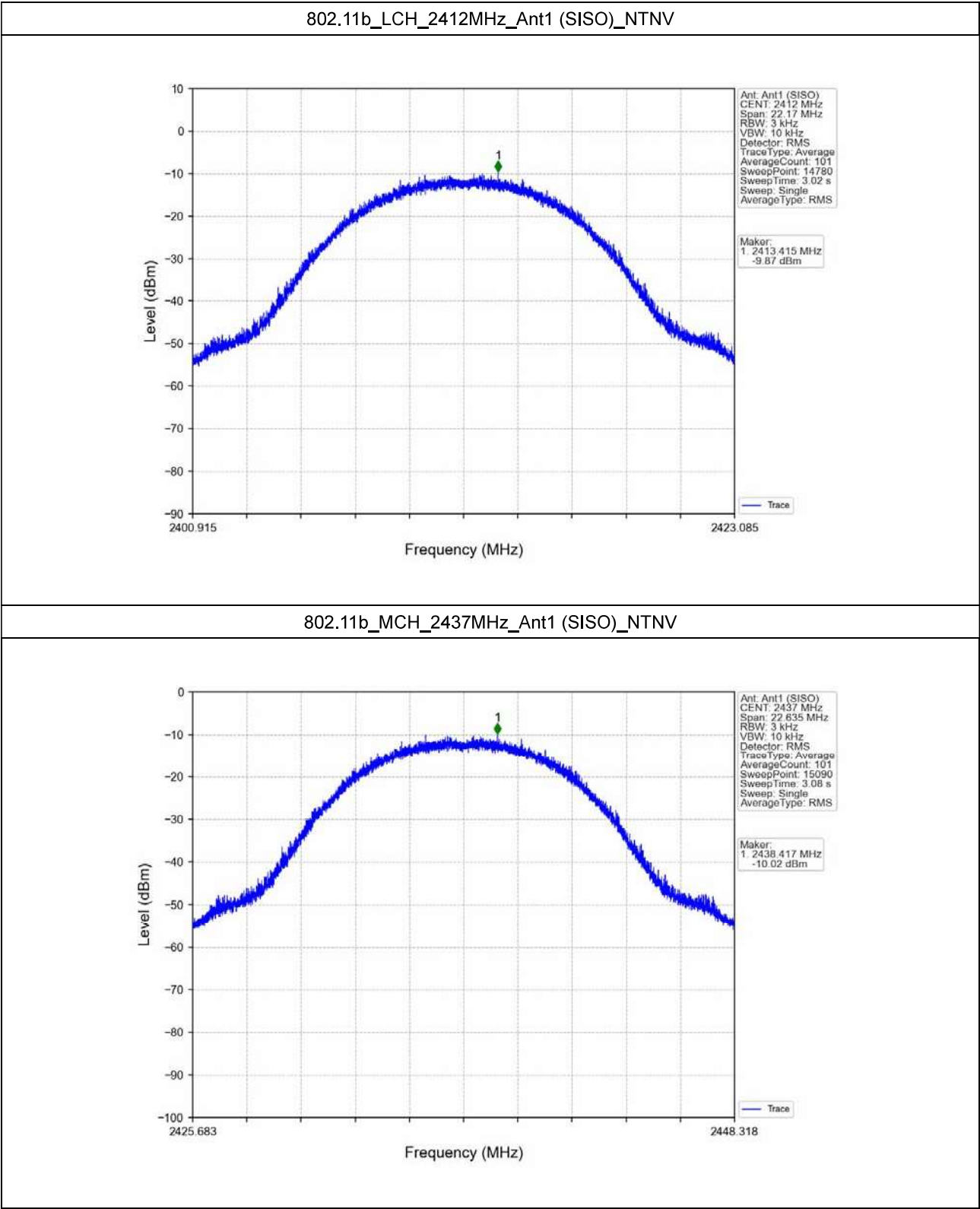
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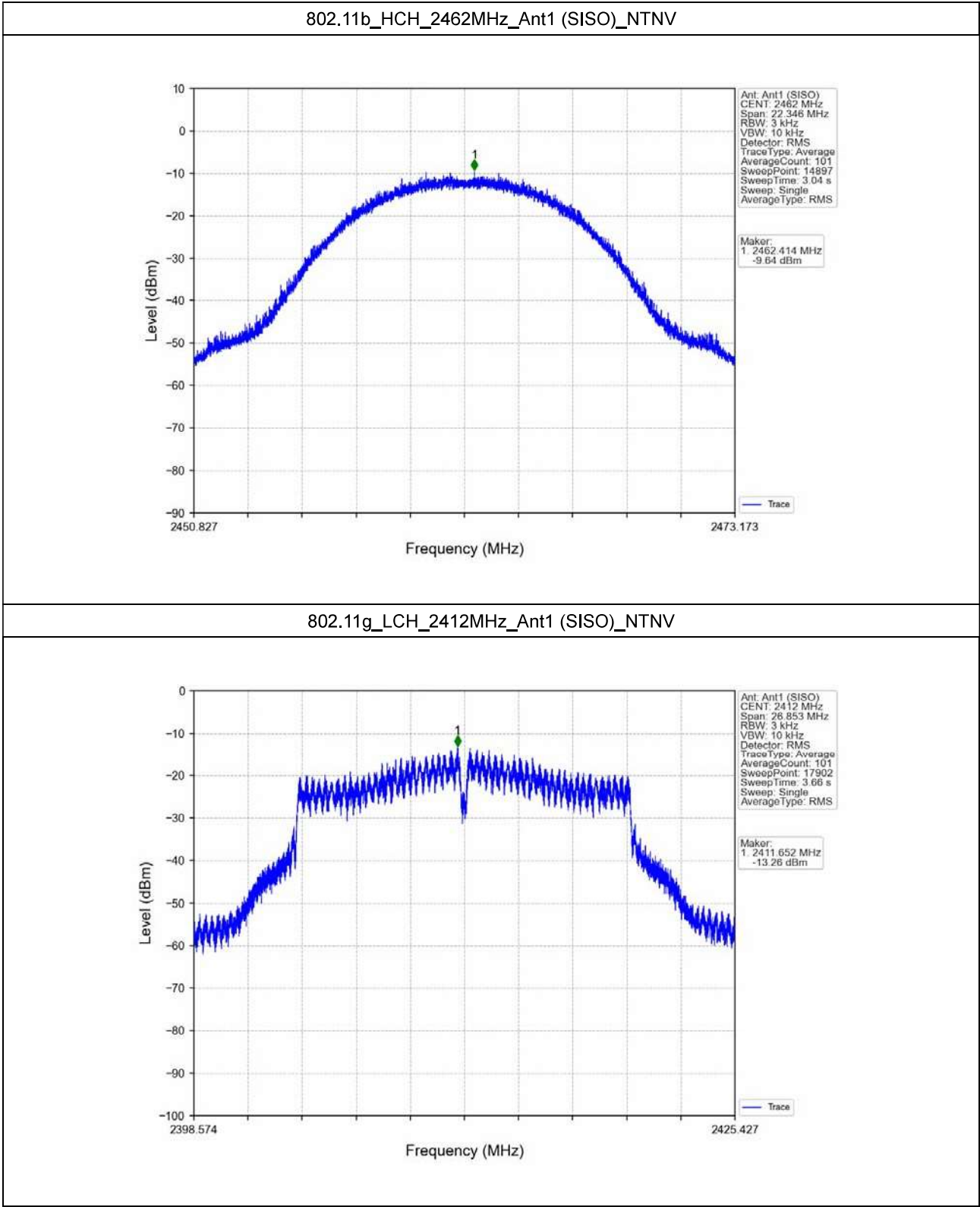
2.4G wifi



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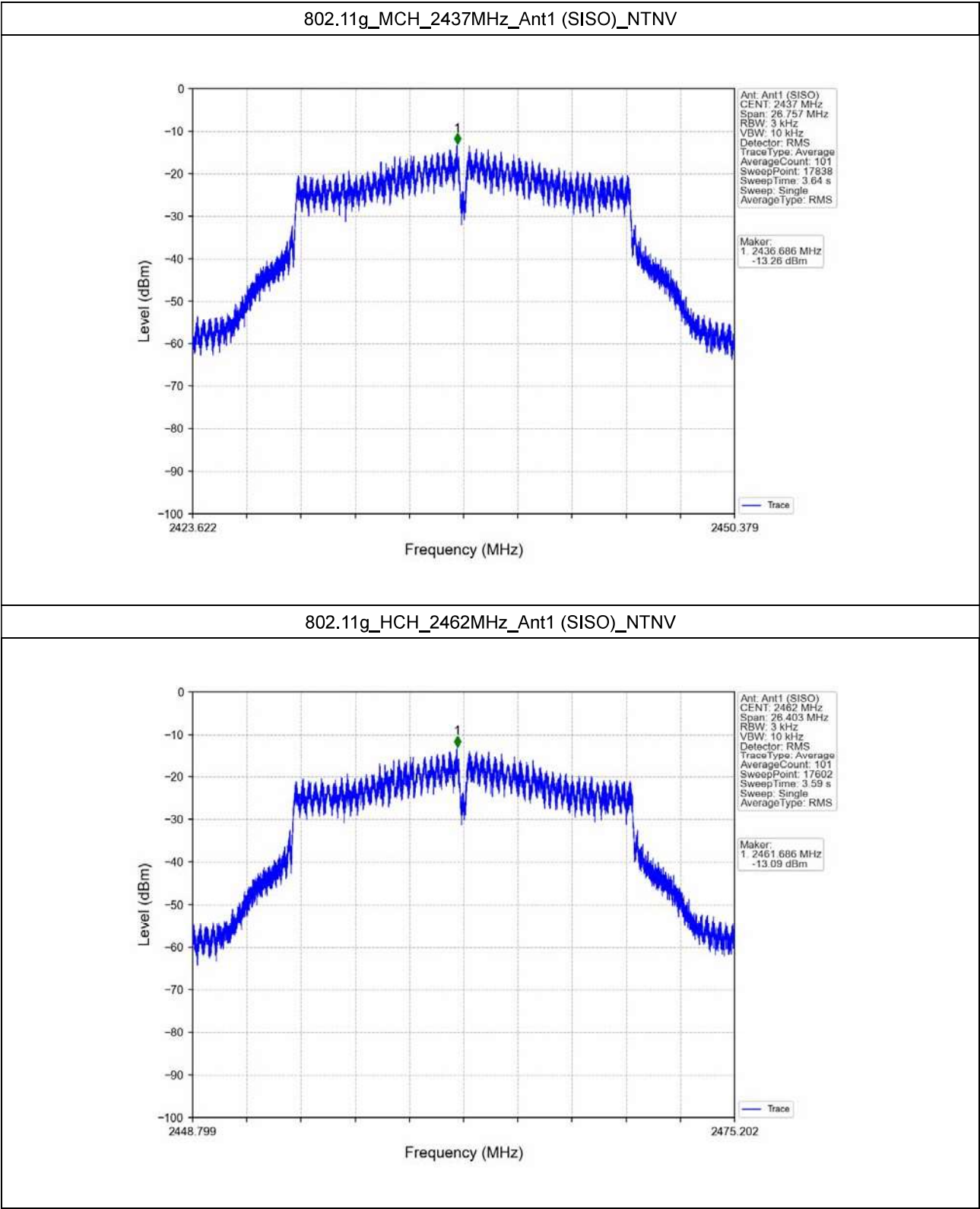


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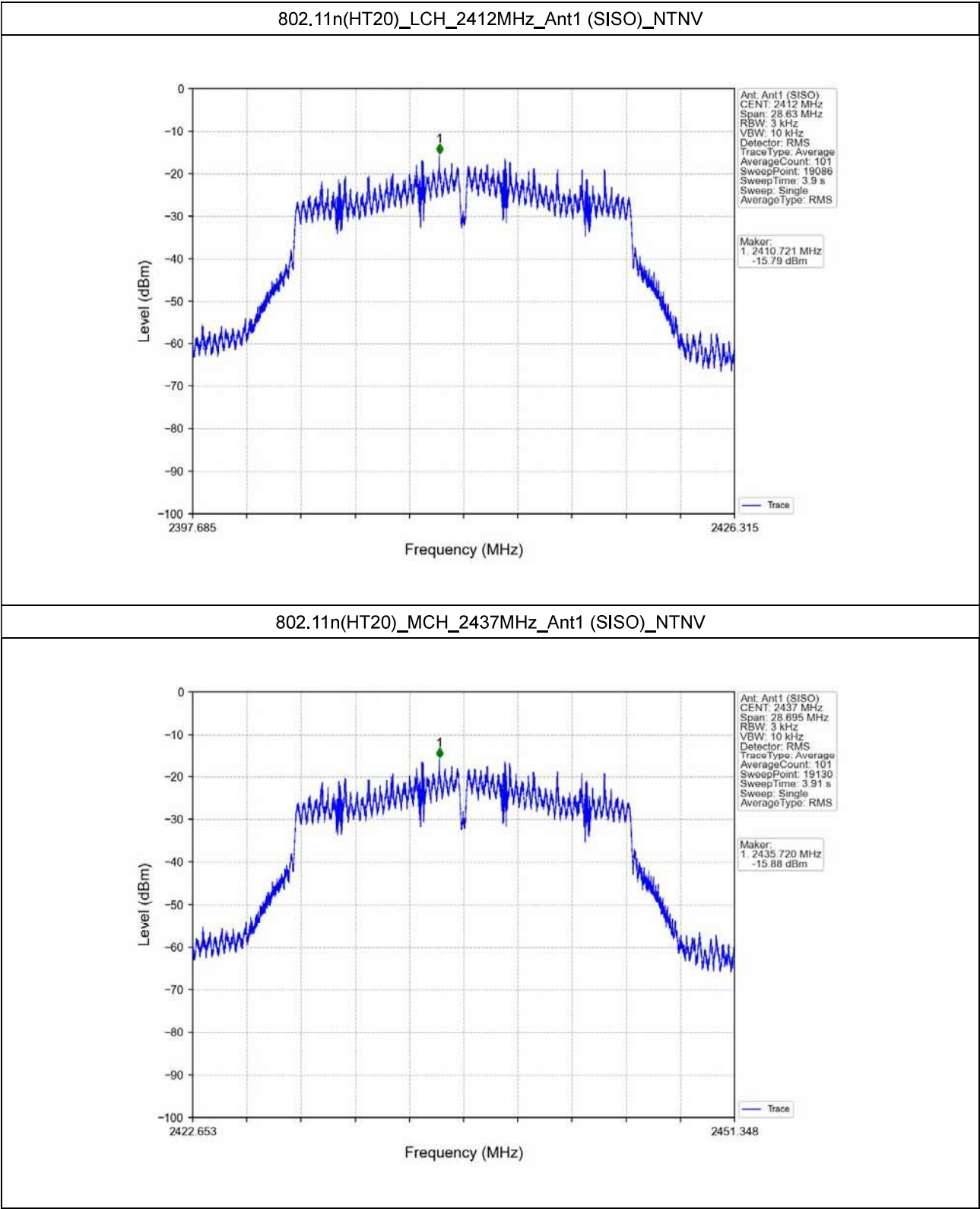




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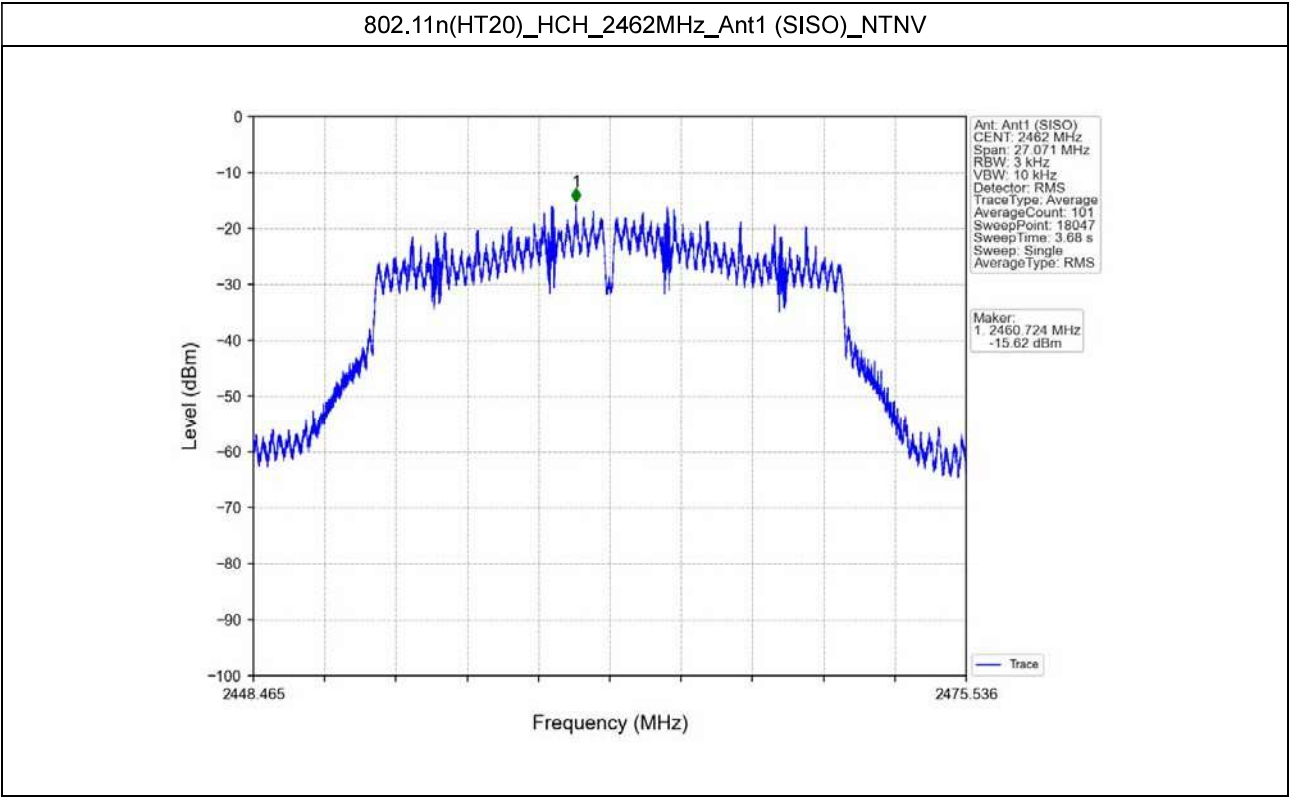
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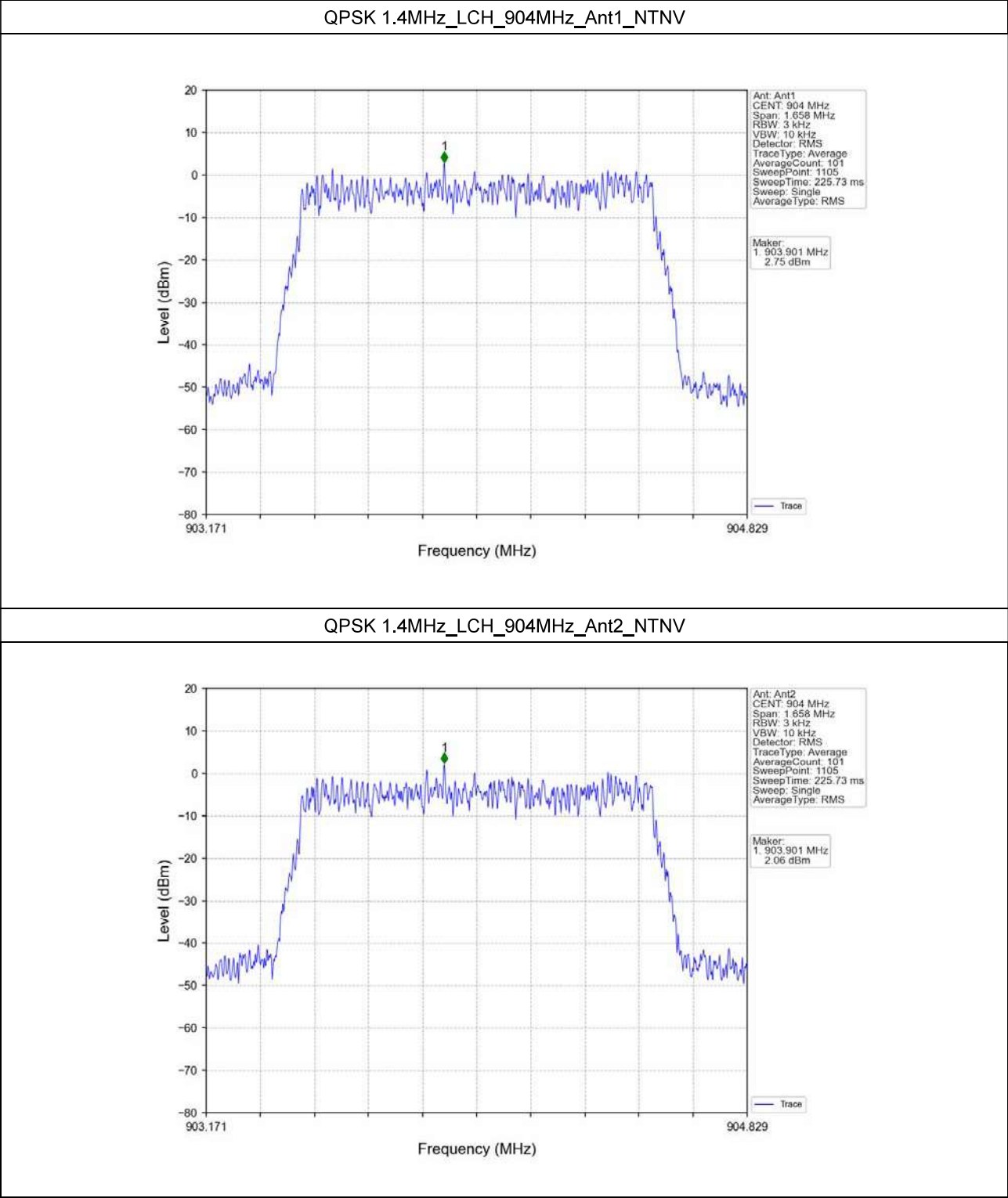
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900M transfer image

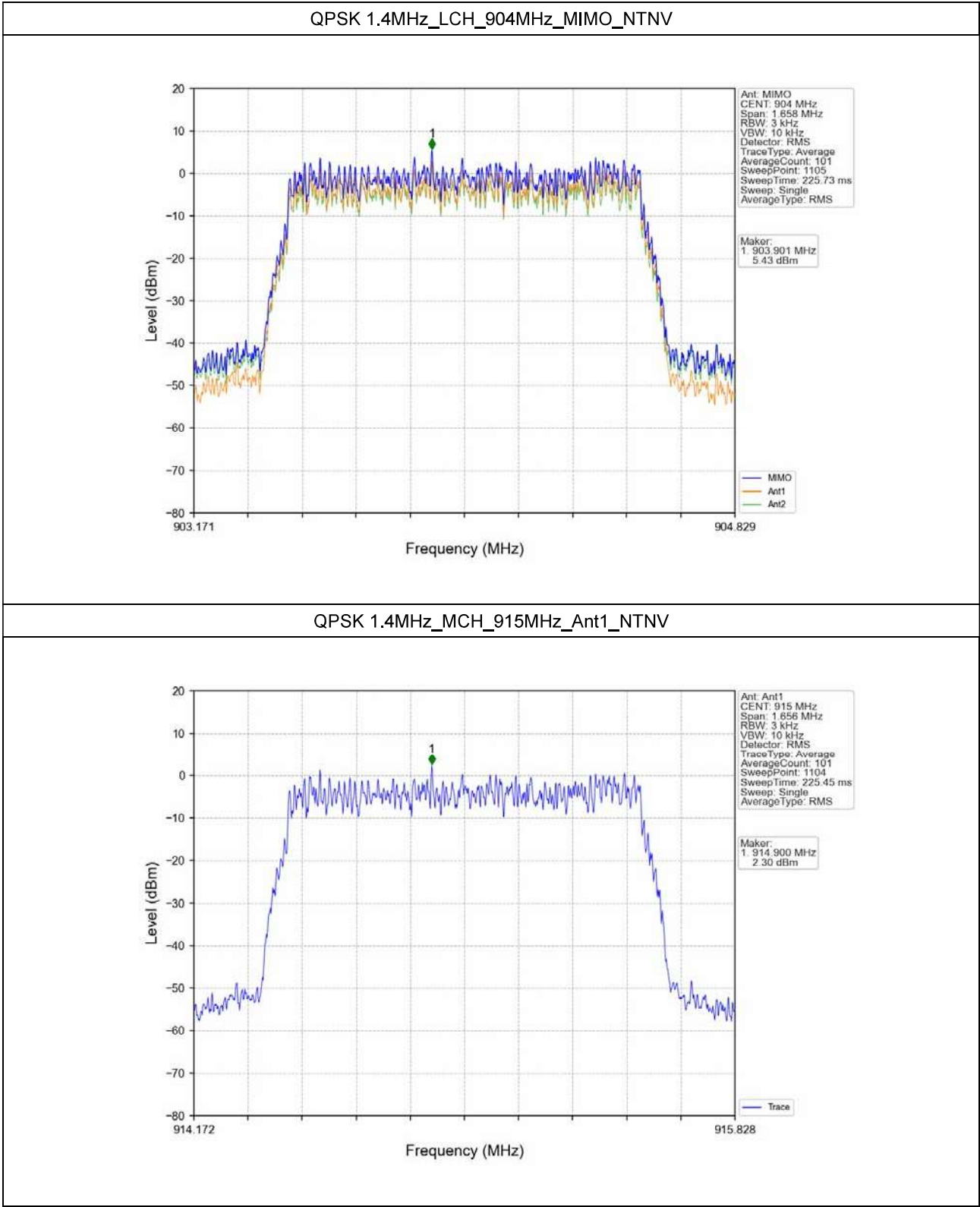
For External Antenna



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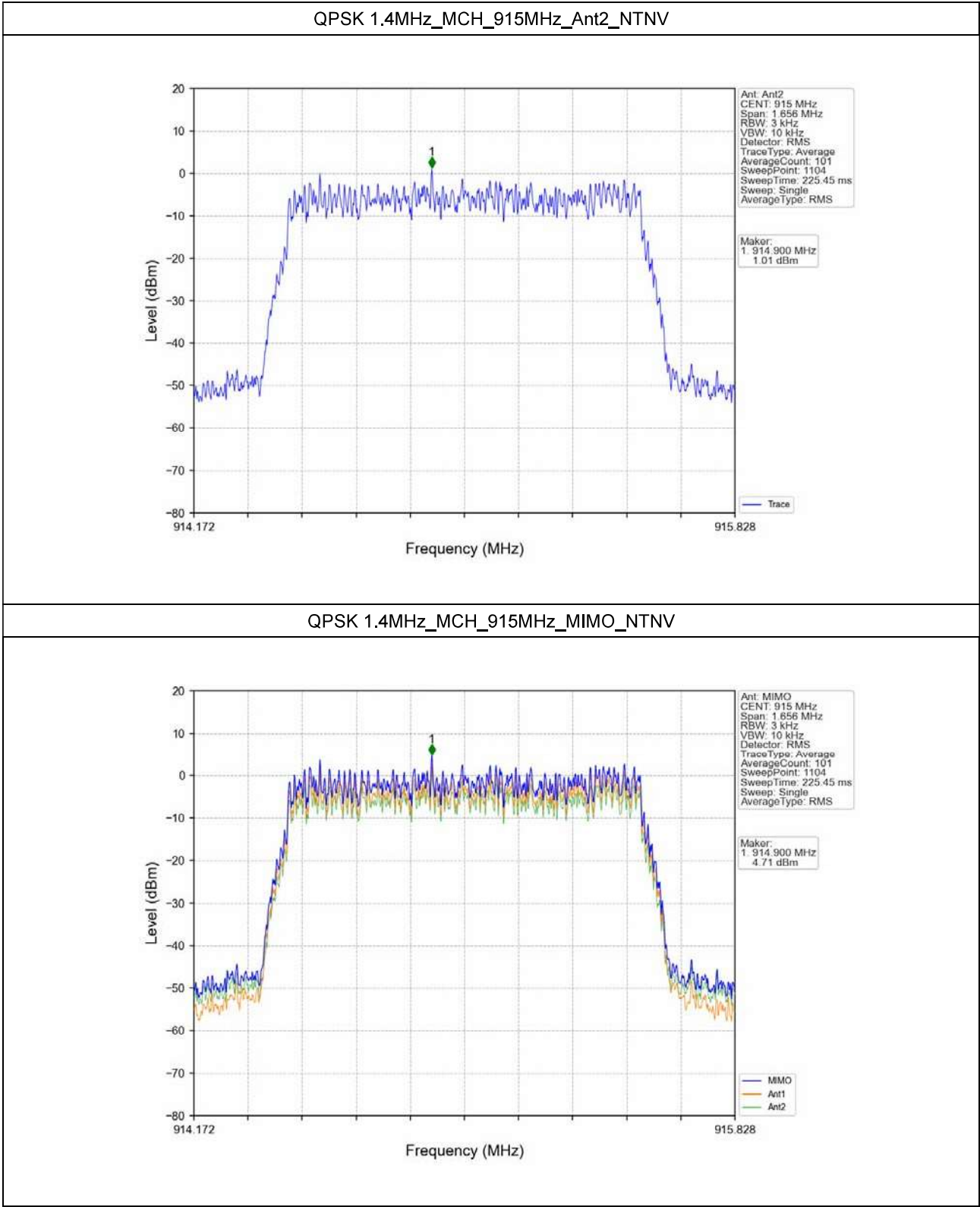


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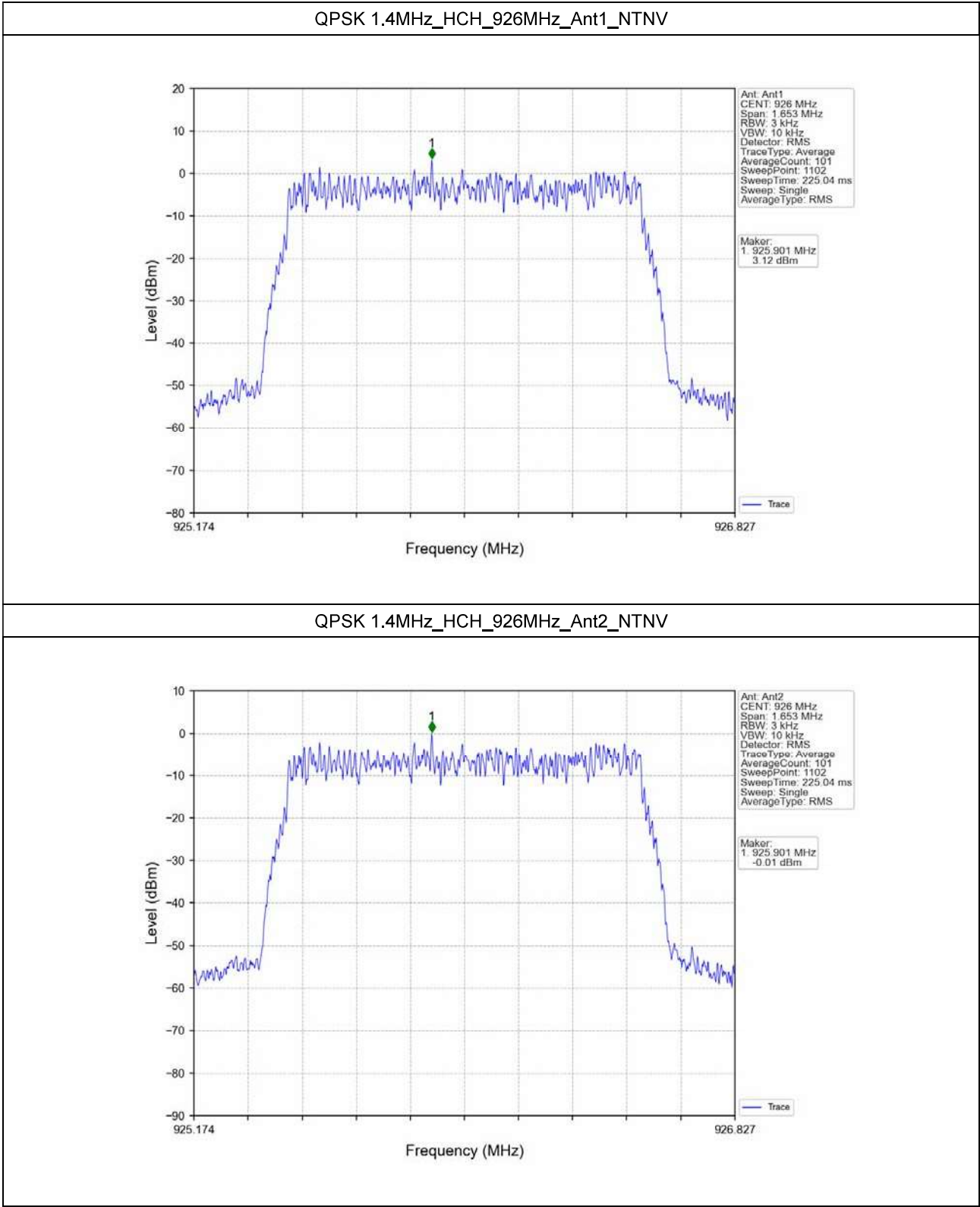


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