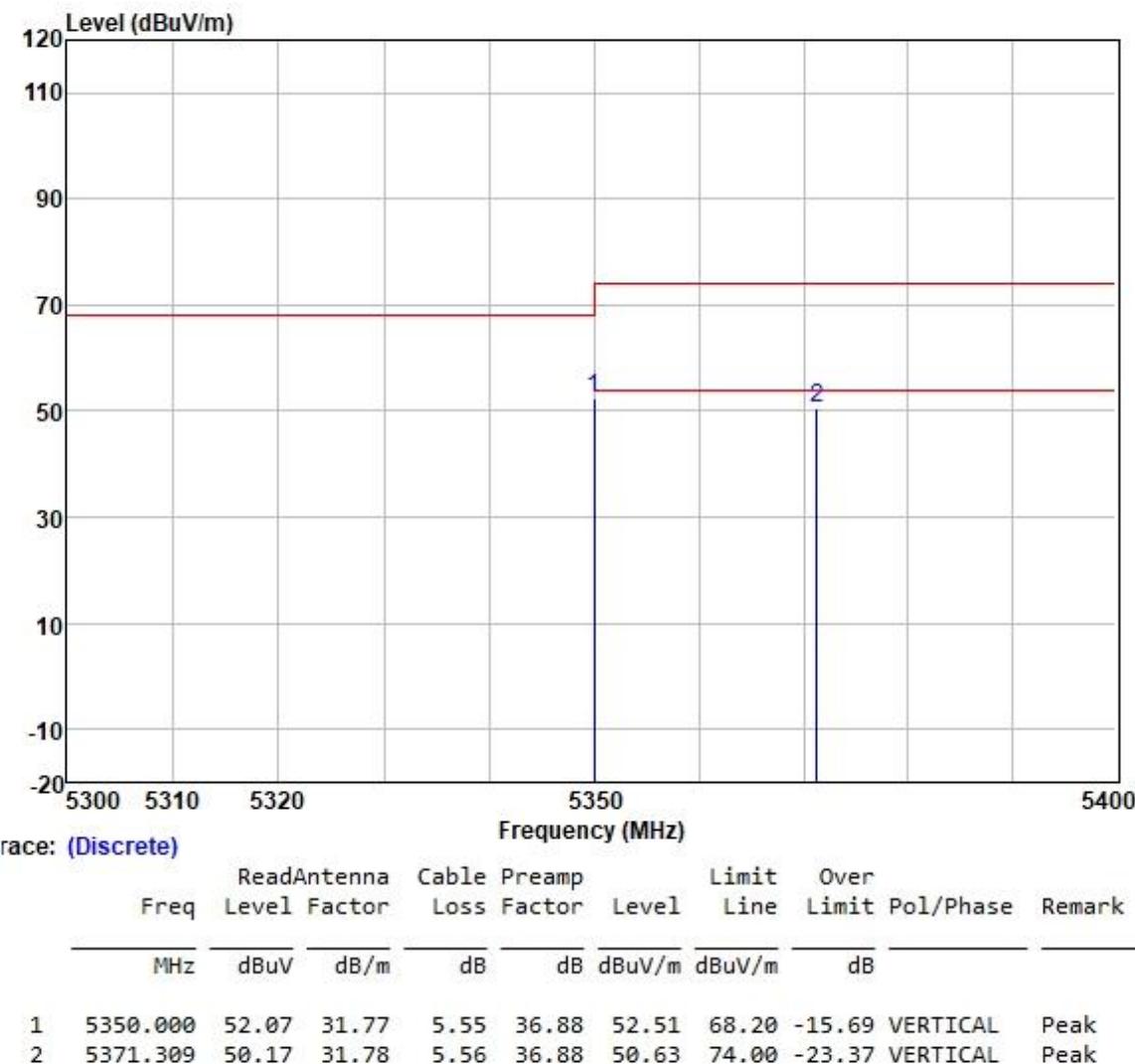


Test Mode: 09; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



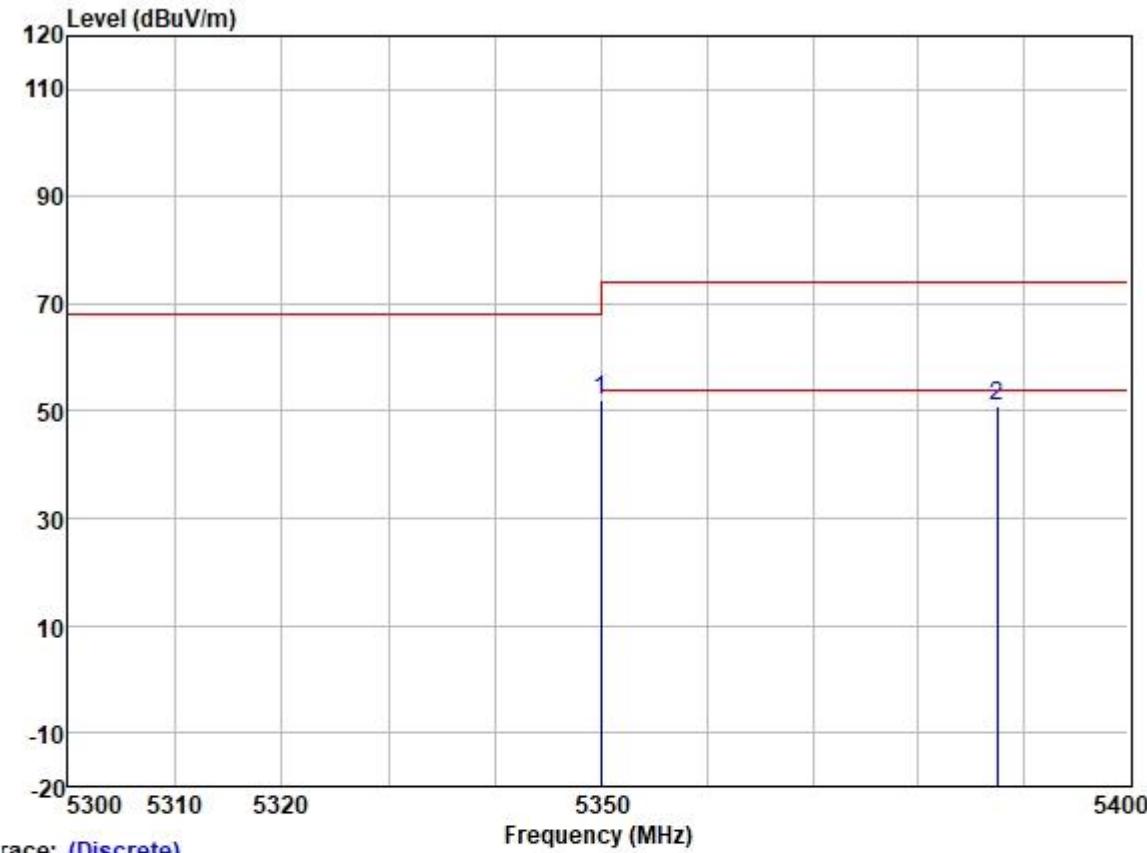
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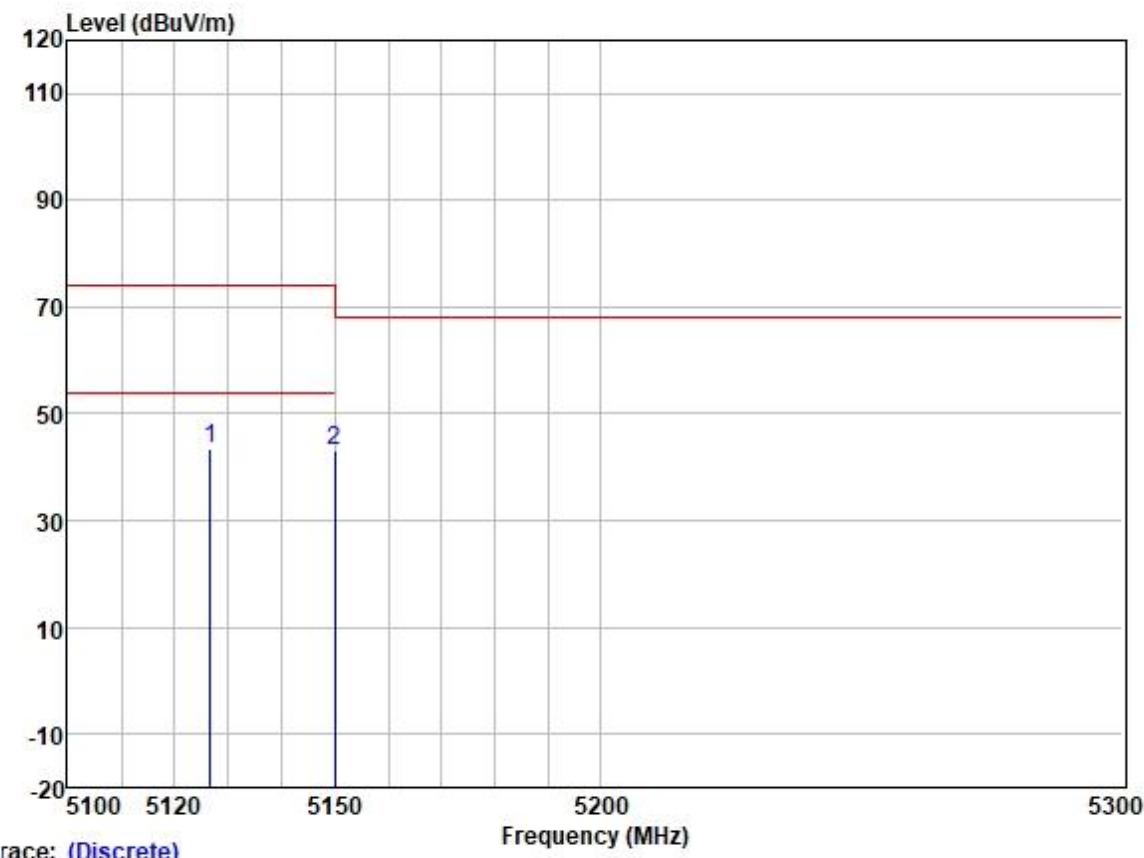


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Test Mode: 09; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



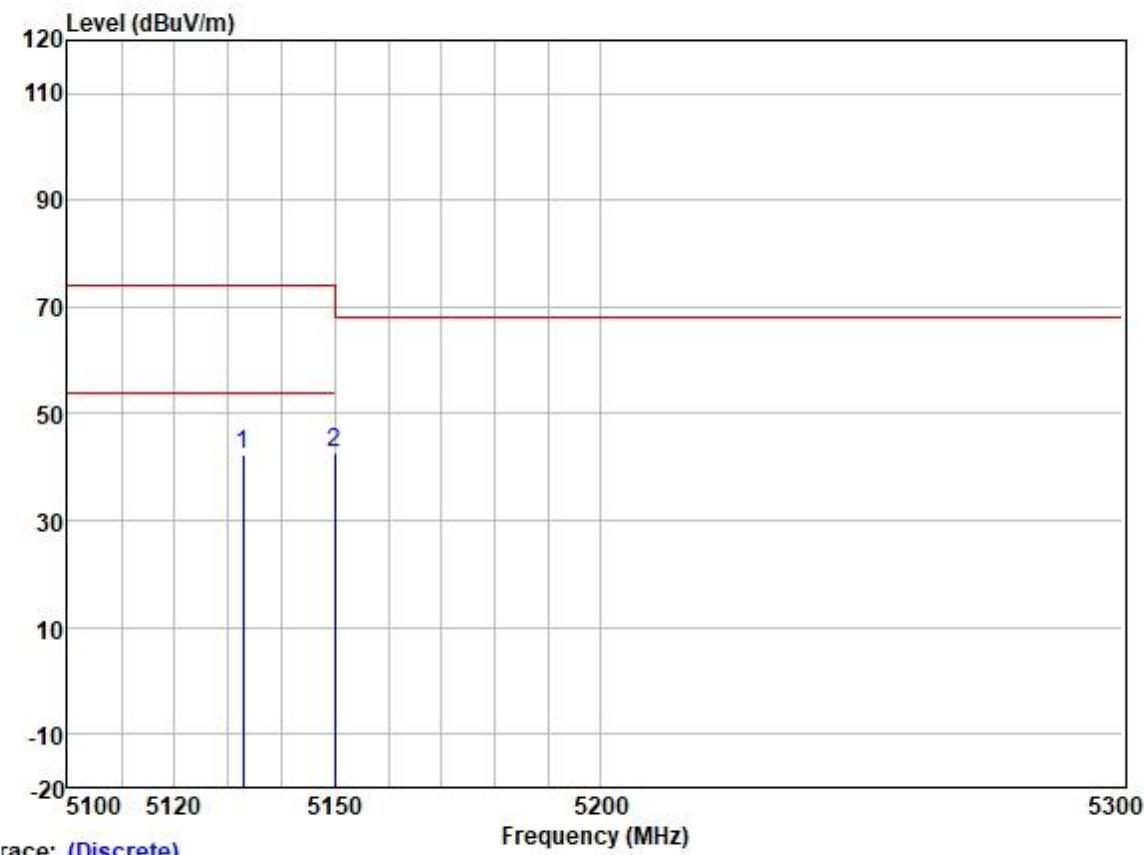
Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

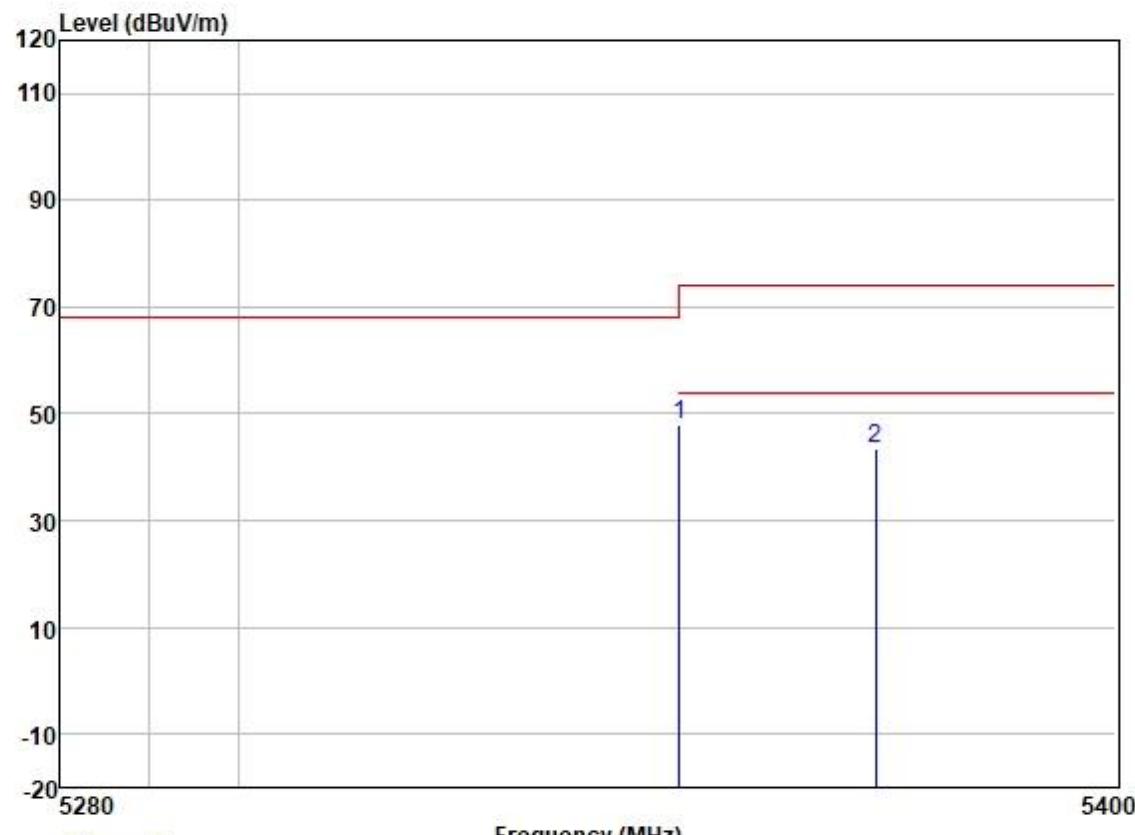
Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	5132.670	42.18	31.72	5.41	36.86	42.45	74.00	-31.55	HORIZONTAL	Peak			
2	5150.000	42.46	31.72	5.42	36.86	42.74	68.20	-25.46	HORIZONTAL	Peak			



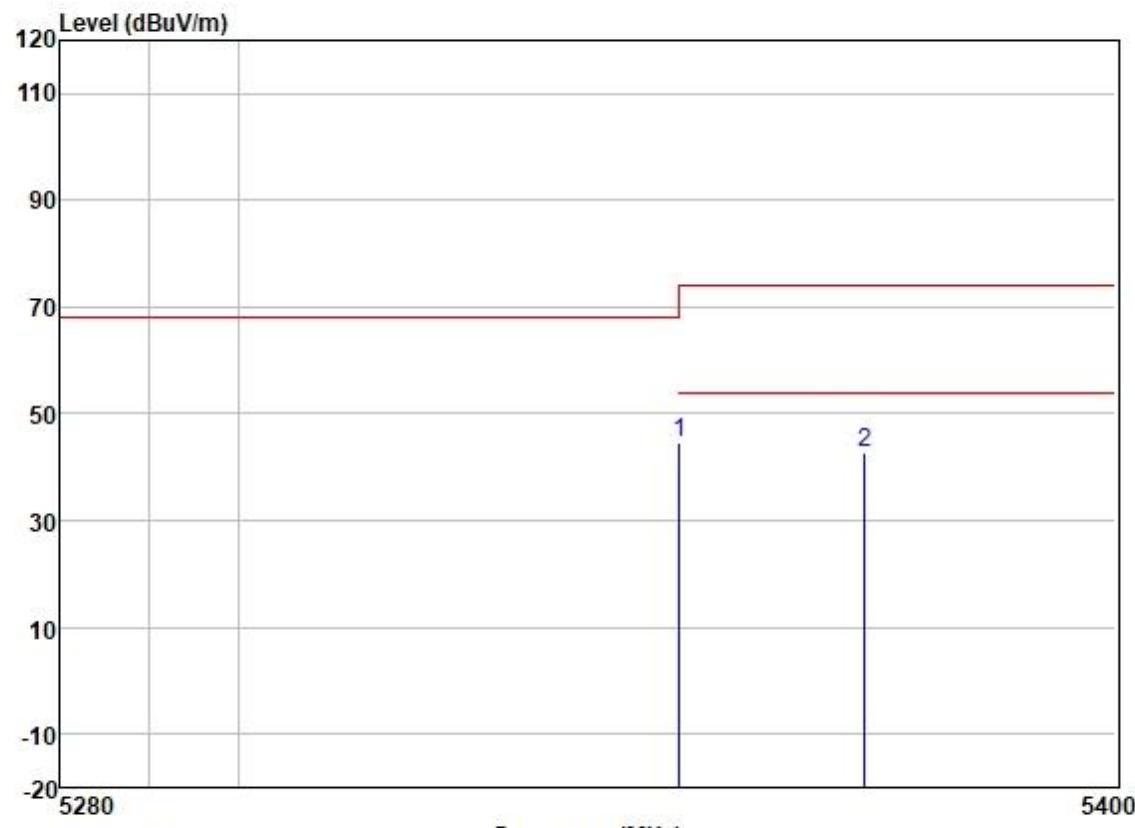
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Test Mode: 09; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



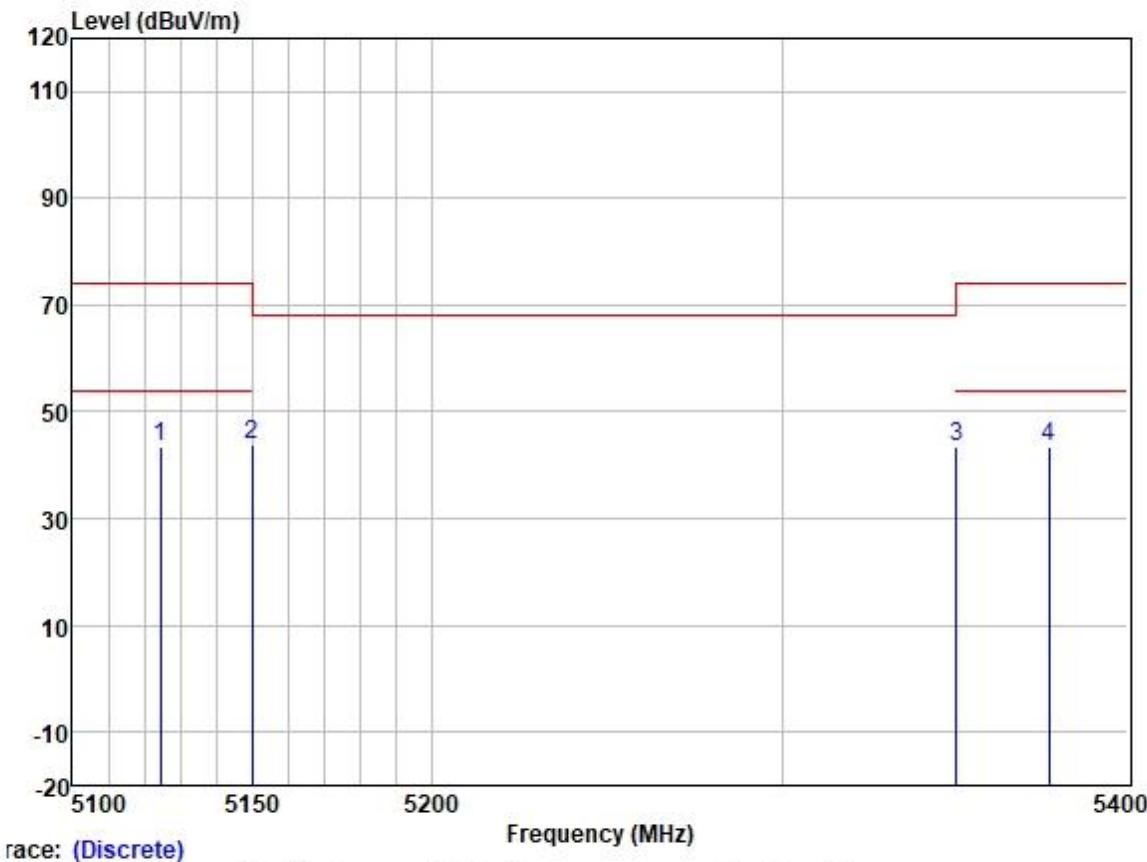
Test Mode: 09; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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Test Mode: 09; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



	Freq	ReadAntenna	Cable	Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	5124.252	43.12	31.72	5.40	36.86	43.38	74.00	-30.62	VERTICAL	Peak
2	5150.000	43.45	31.72	5.42	36.86	43.73	68.20	-24.47	VERTICAL	Peak
3	5350.000	42.89	31.77	5.55	36.88	43.33	68.20	-24.87	VERTICAL	Peak
4	5376.900	43.02	31.78	5.56	36.88	43.48	74.00	-30.52	VERTICAL	Peak

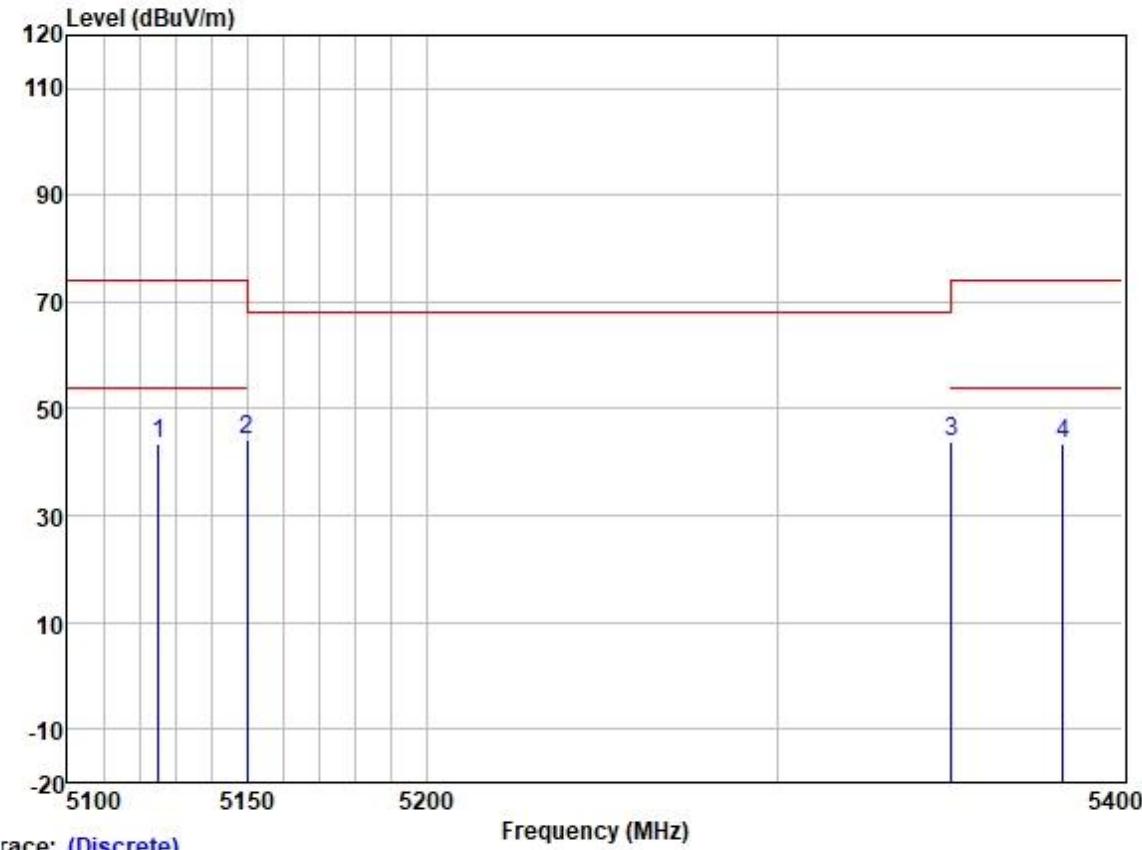
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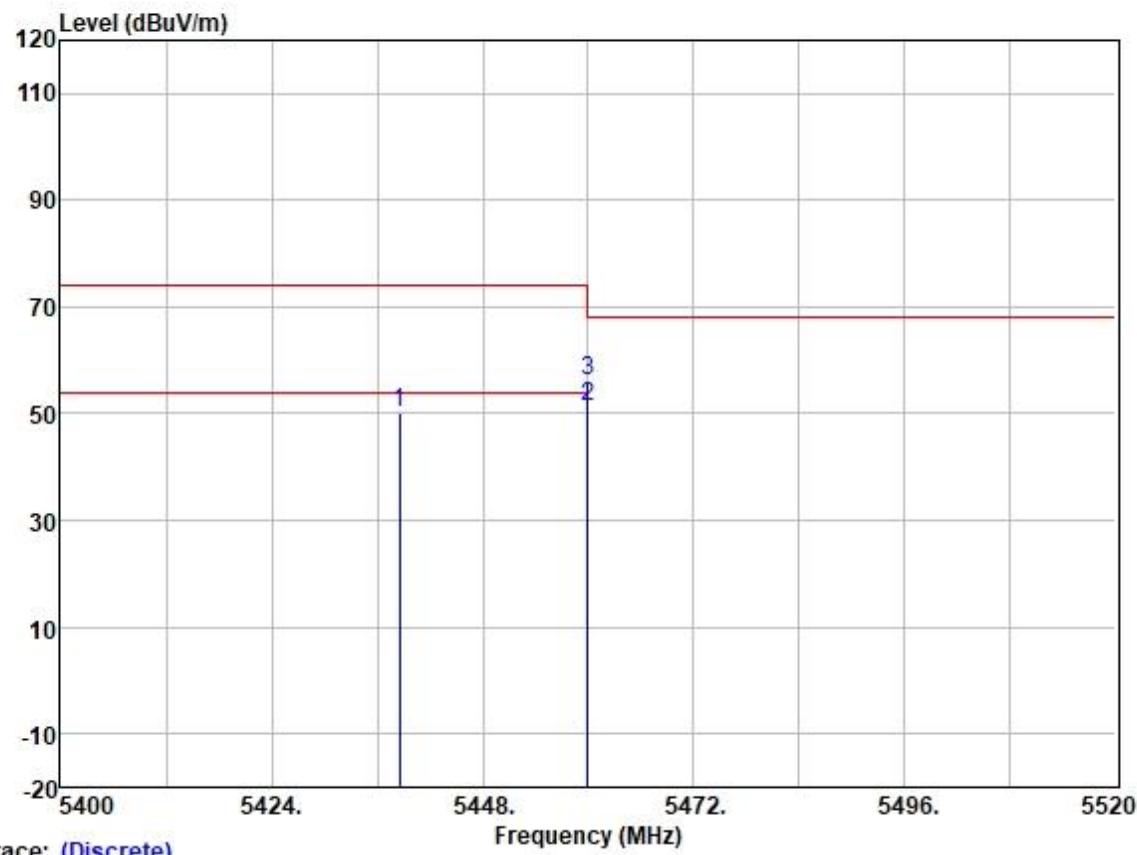
Test Mode: 09; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



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Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 5438.520	49.59	31.79	5.59	36.88	50.09	74.00	-23.91 VERTICAL Peak
2 5460.000	50.84	31.79	5.59	36.88	51.34	54.00	-2.66 VERTICAL Average
3 5460.000	55.61	31.79	5.59	36.88	56.11	68.20	-12.09 VERTICAL Peak

According to KDB 789033 D02 II G.

Frequency (MHz)	Duty cycle	Factor(dB)*	AV Measured Level (dBuV/m)	AV Amendment Level** (dBuV/m)	Limit (dBuV/m)	Over limit (dB)
5460	63.04%	1.96	51.34	53.3	54	-0.70

\*Remark: Factor(dB)=10log (1/Duty cycle) = 10\*log (1/0.6304) = 1.96 dB

\*\*Remark: AV Amendment Level (dBuV/m) = AV Measured Level (dBuV/m) + Factor(dB)

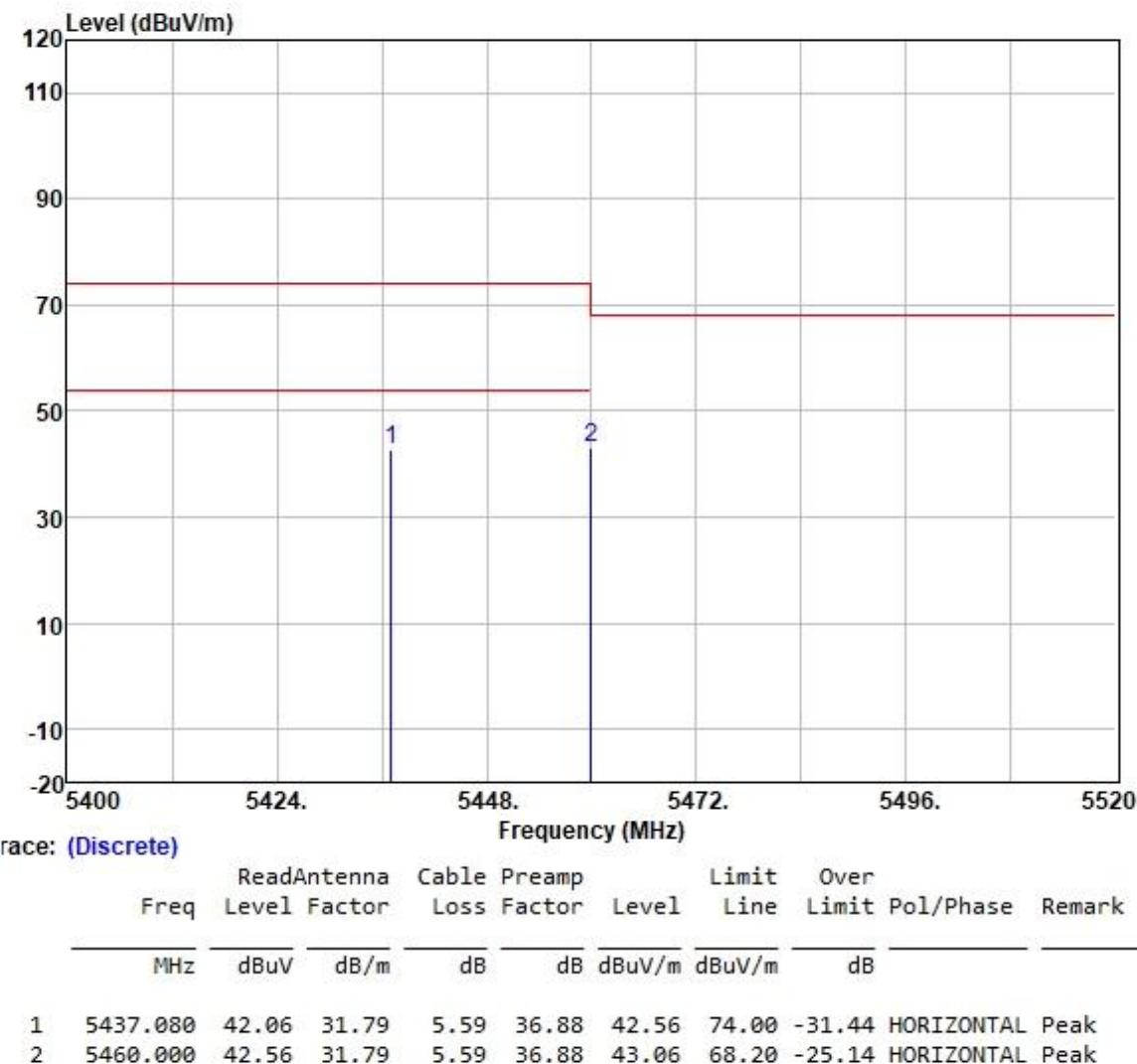
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



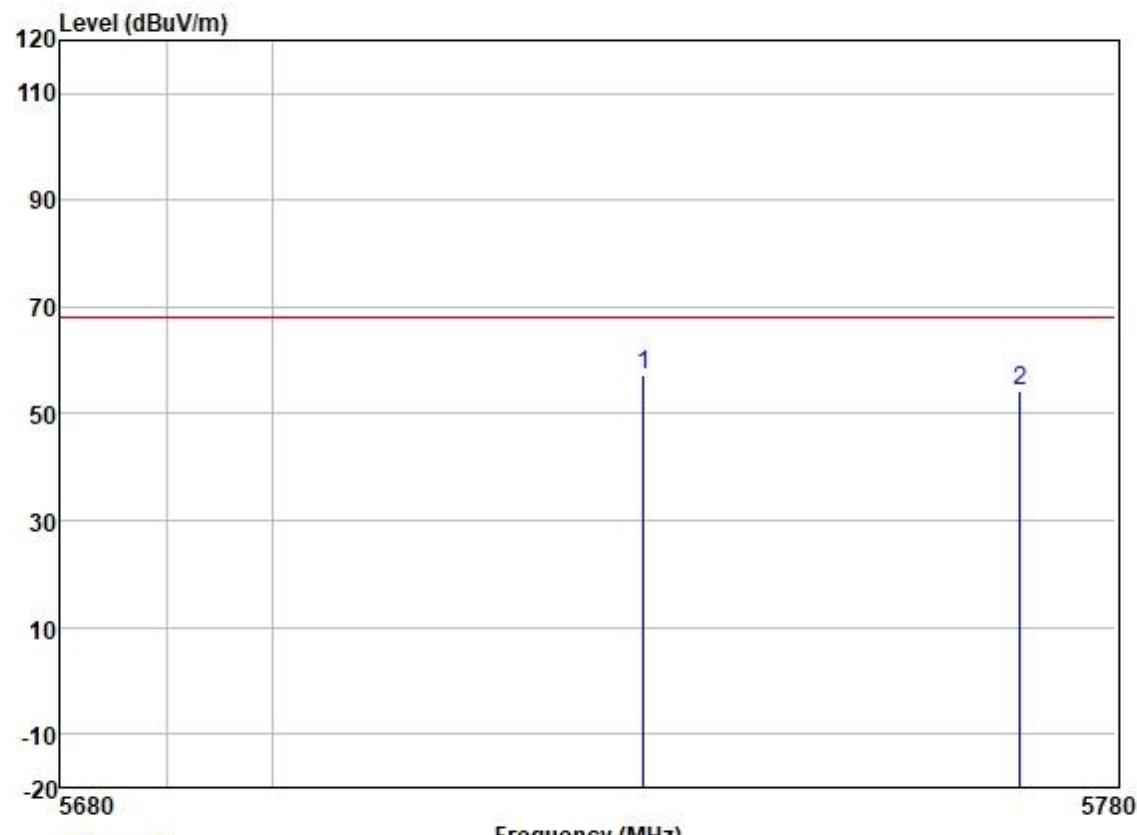
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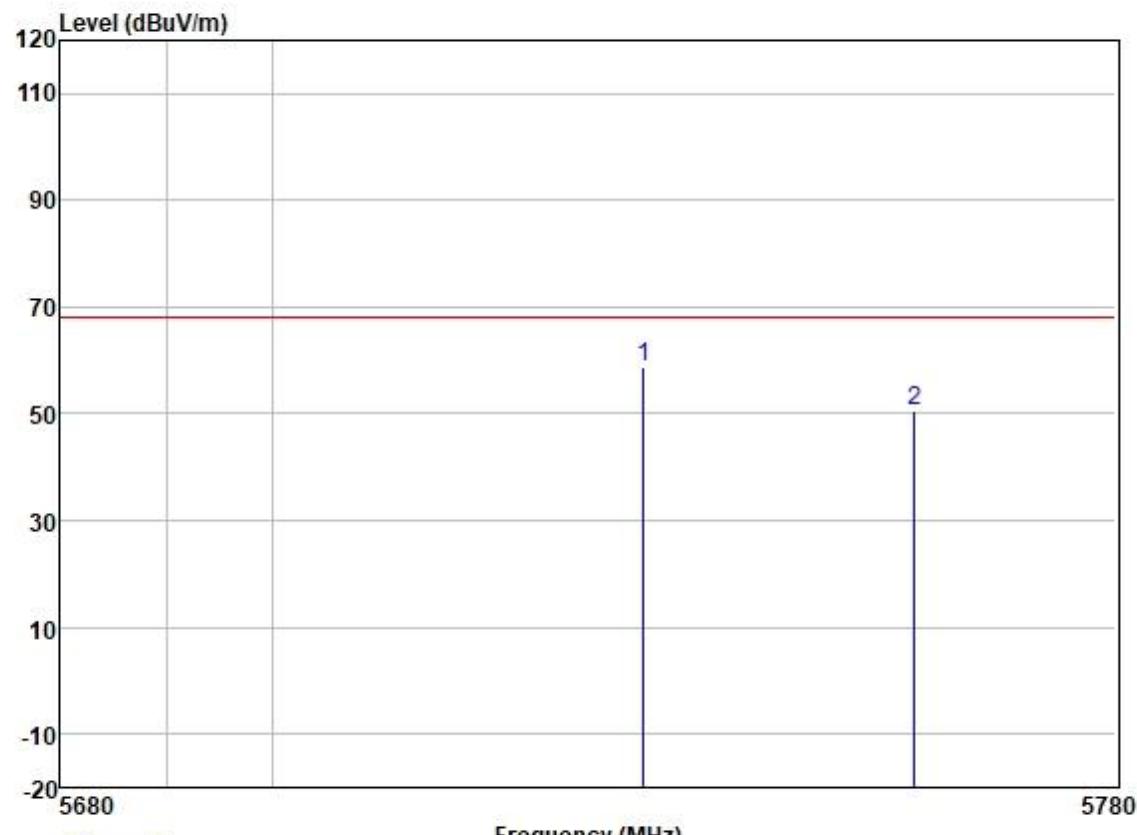
Test Mode: 10; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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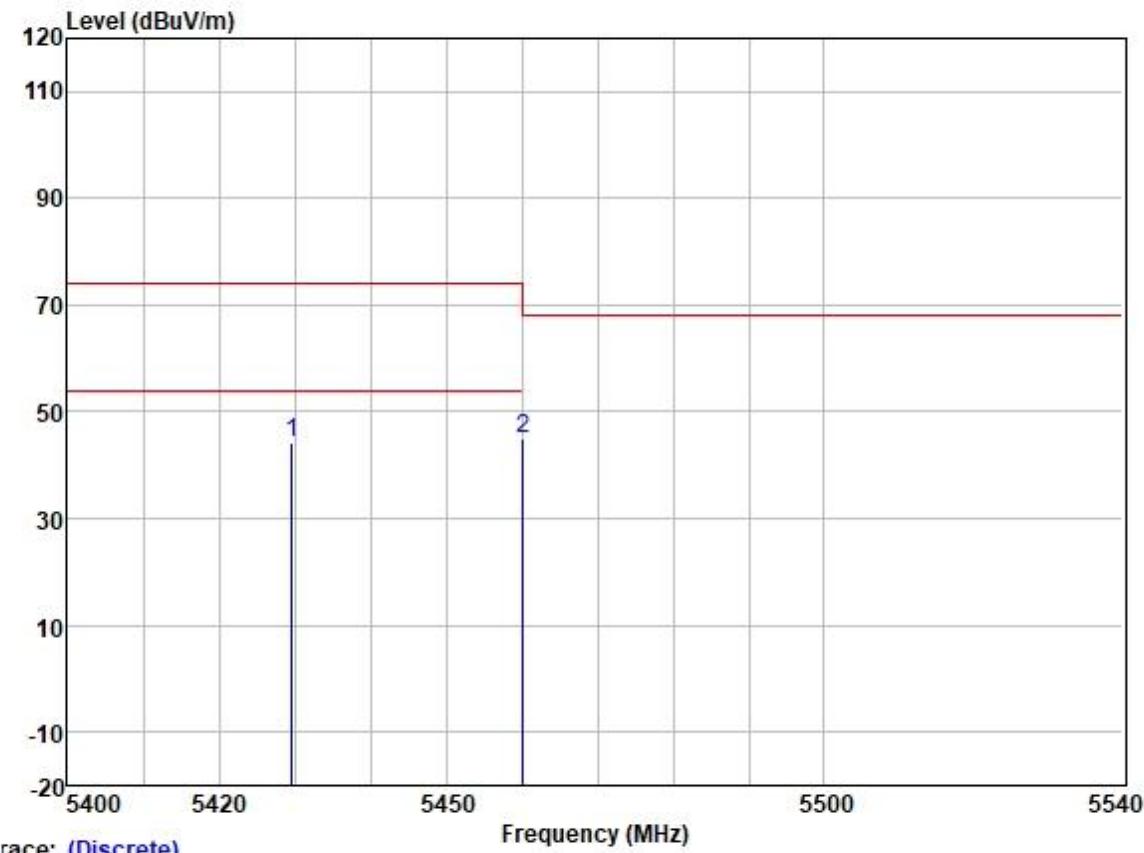
Test Mode: 10; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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Test Mode: 10; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Line	Pol/Phase	Remark
	MHz	dBuV	Factor	dB						
1	5429.521	43.68	31.79	5.58	36.88	44.17	74.00	-29.83	VERTICAL	Peak
2	5460.000	44.43	31.79	5.59	36.88	44.93	68.20	-23.27	VERTICAL	Peak

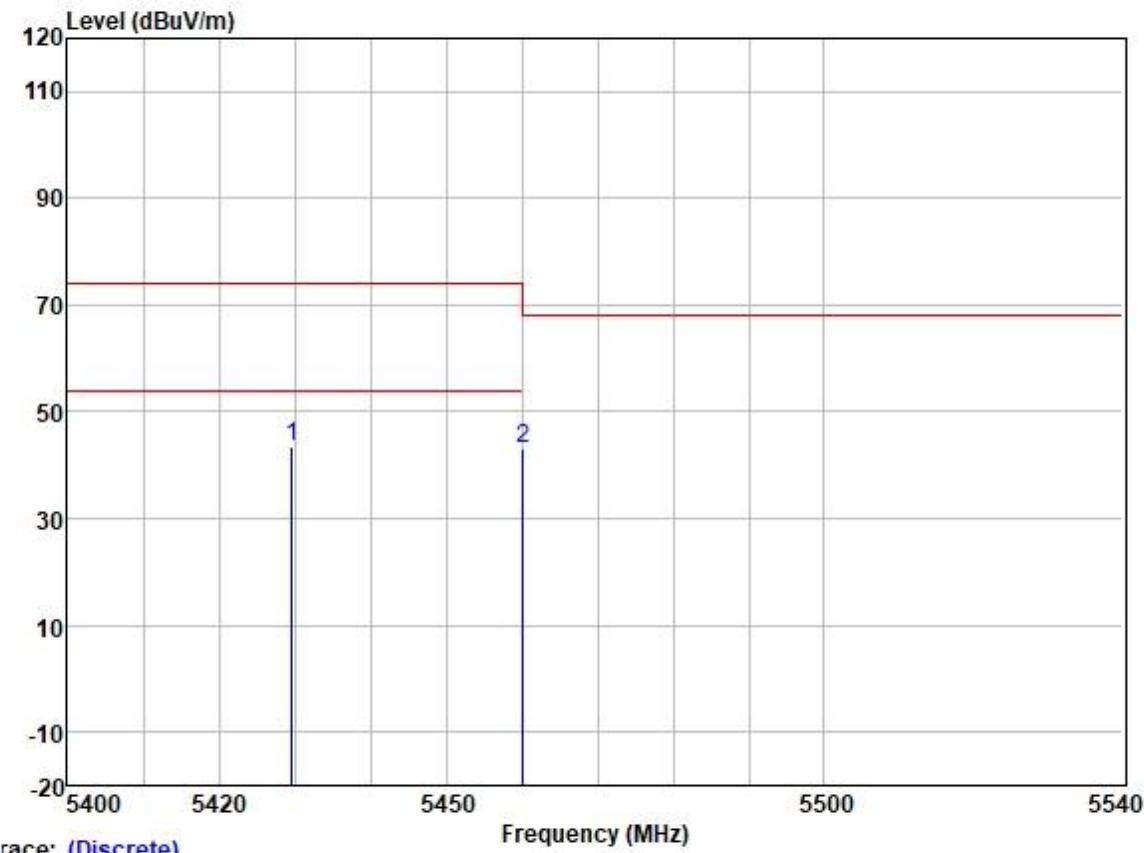
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Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



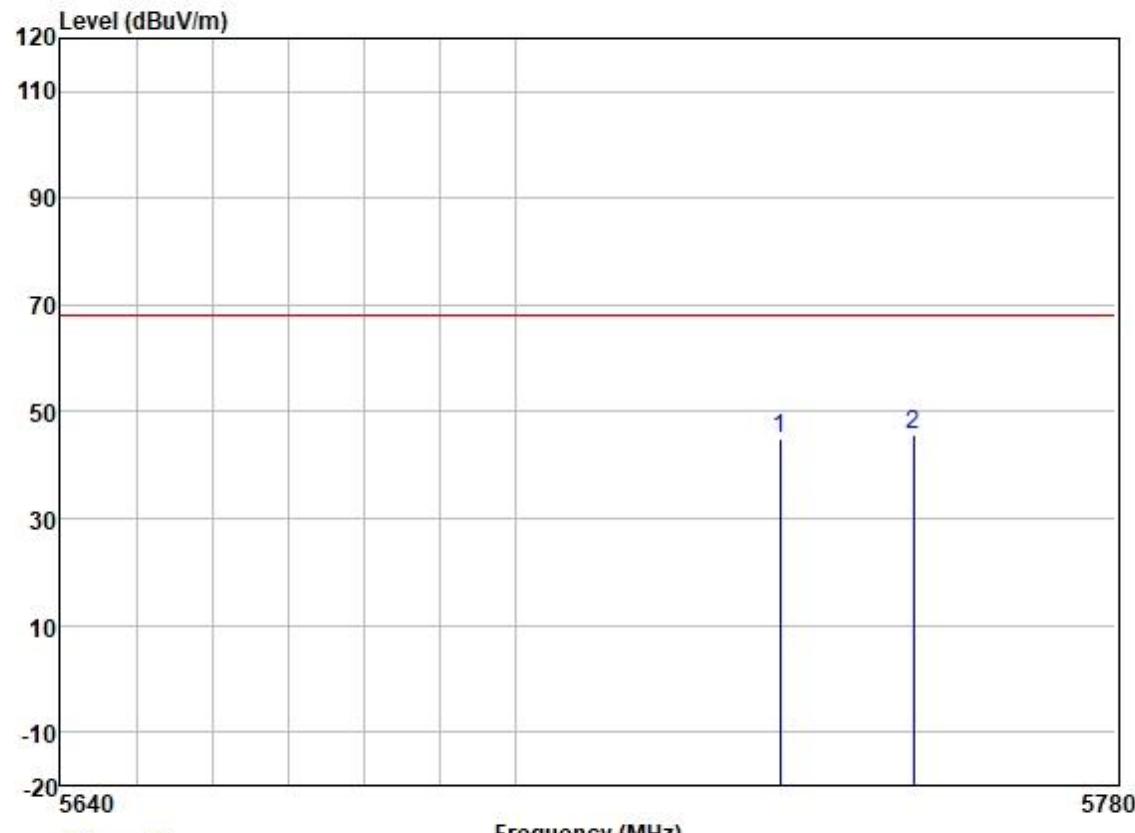
Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	5429.521	42.90	31.79	5.58	36.88	43.39	74.00	-30.61	HORIZONTAL	Peak			
2	5460.000	42.60	31.79	5.59	36.88	43.10	68.20	-25.10	HORIZONTAL	Peak			



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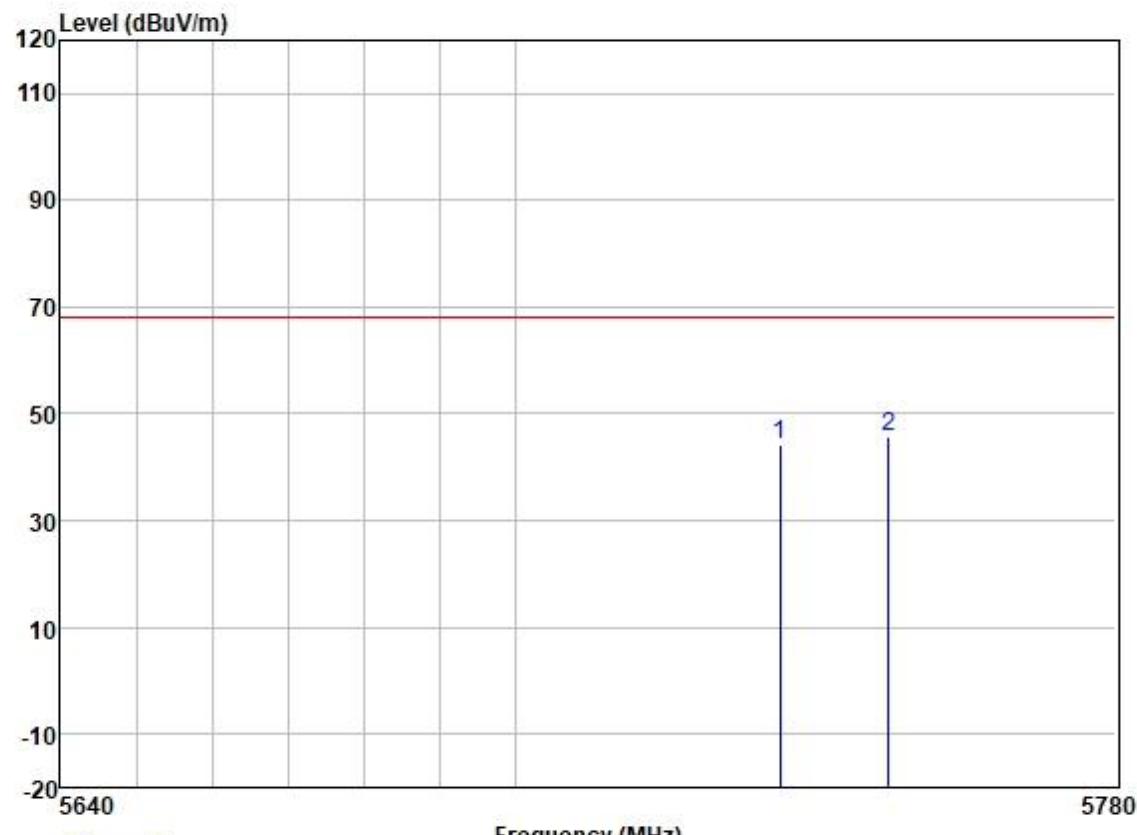
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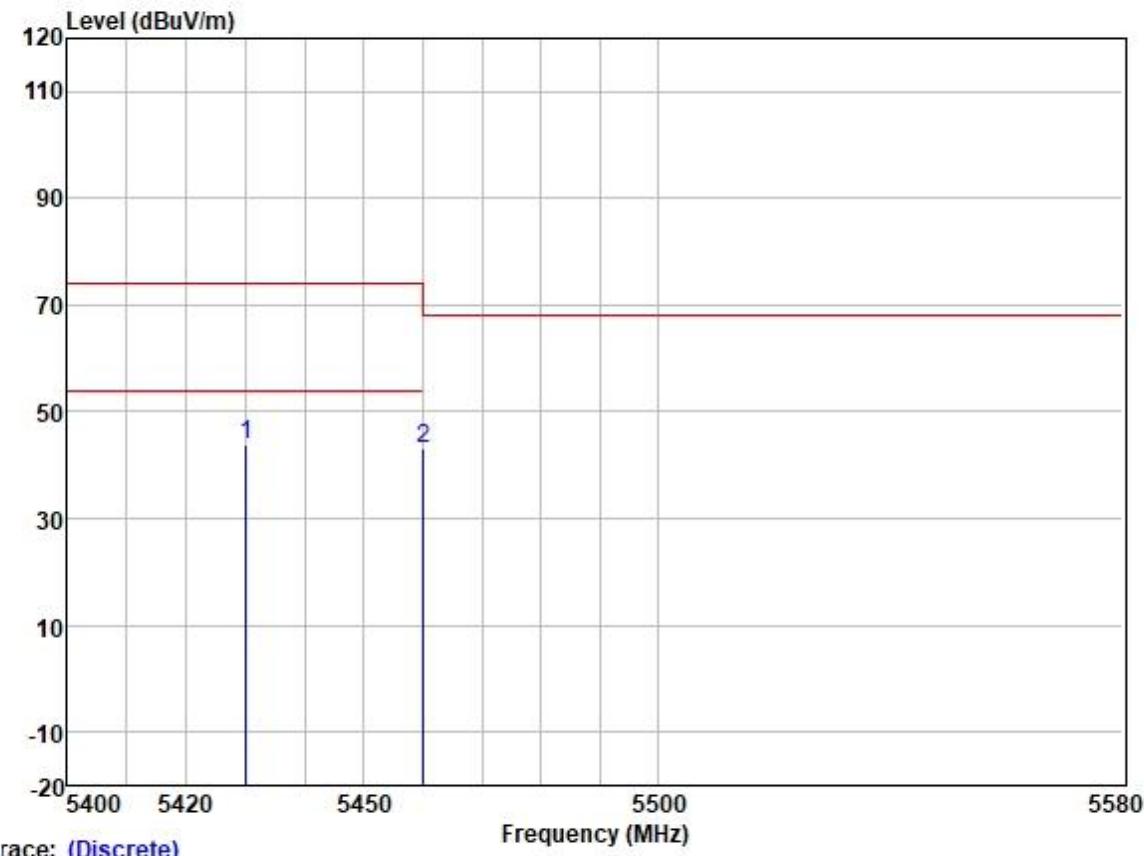
Test Mode: 10; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

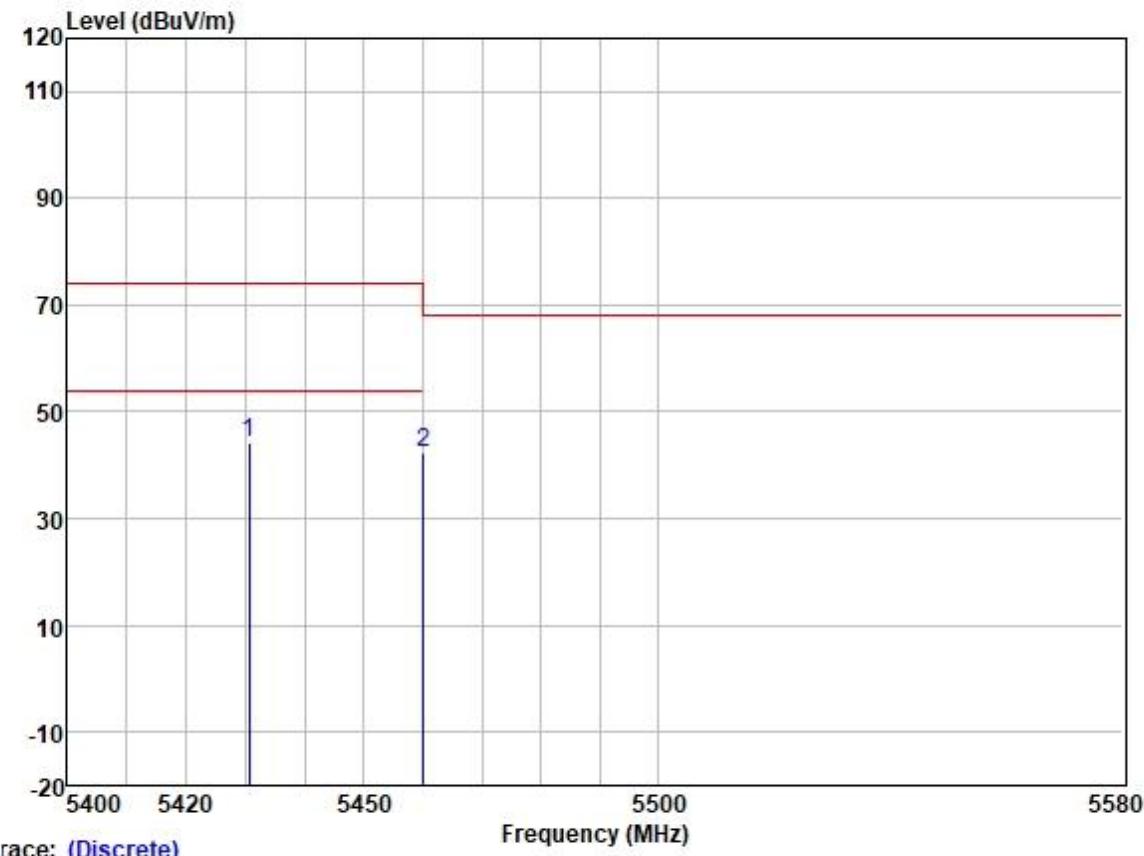
Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	Limit Line	dBuV/m	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB								
1	5430.007	43.20	31.79	5.58	36.88	43.69	74.00	-30.31	VERTICAL	Peak		
2	5460.000	42.64	31.79	5.59	36.88	43.14	68.20	-25.06	VERTICAL	Peak		



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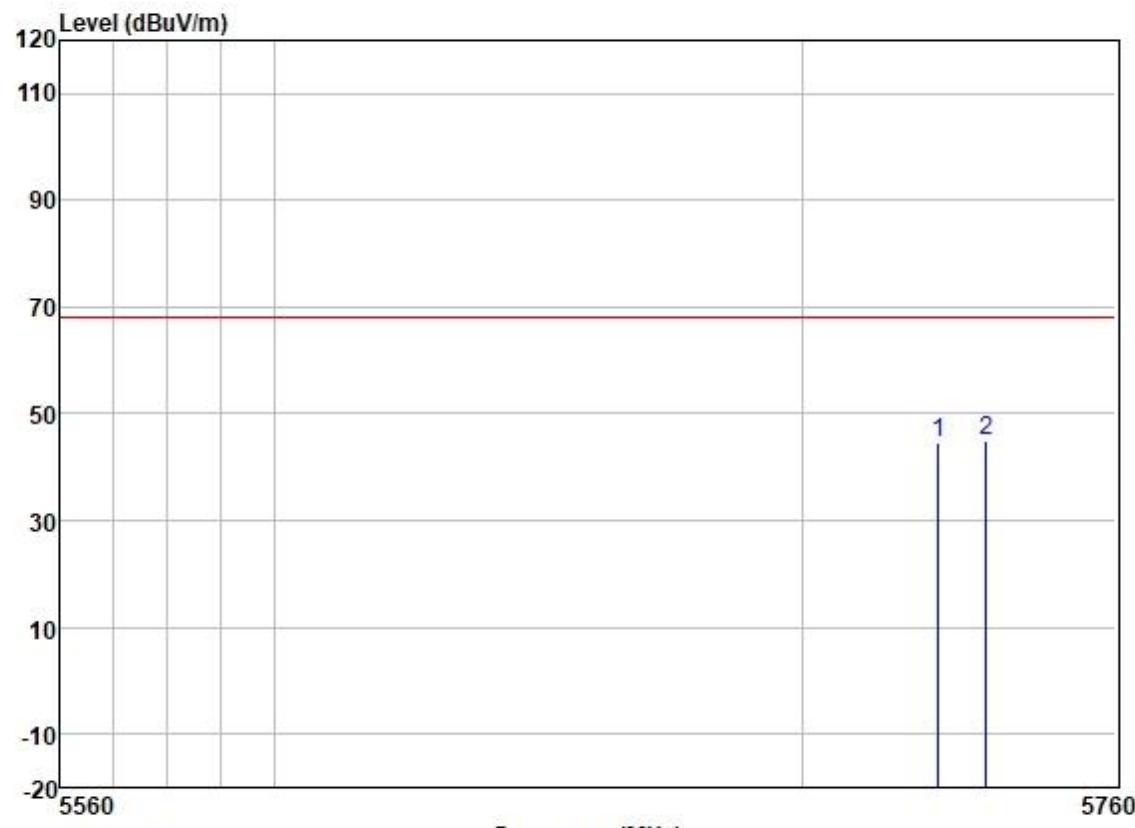
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



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Test Mode: 10; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



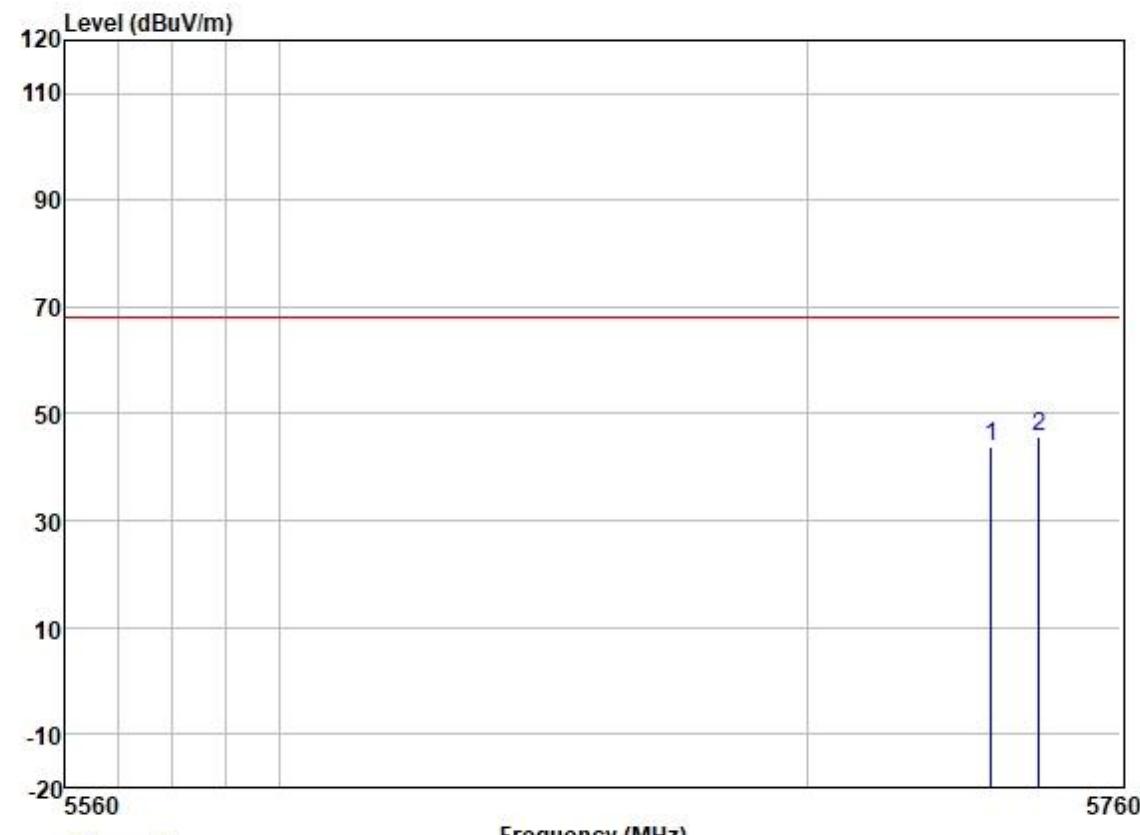
Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB	
1 5725.904	43.62	32.07	5.78	36.89	44.58	68.20	-23.62	VERTICAL	Peak	
2 5735.000	43.88	32.07	5.78	36.89	44.84	68.20	-23.36	VERTICAL	Peak	

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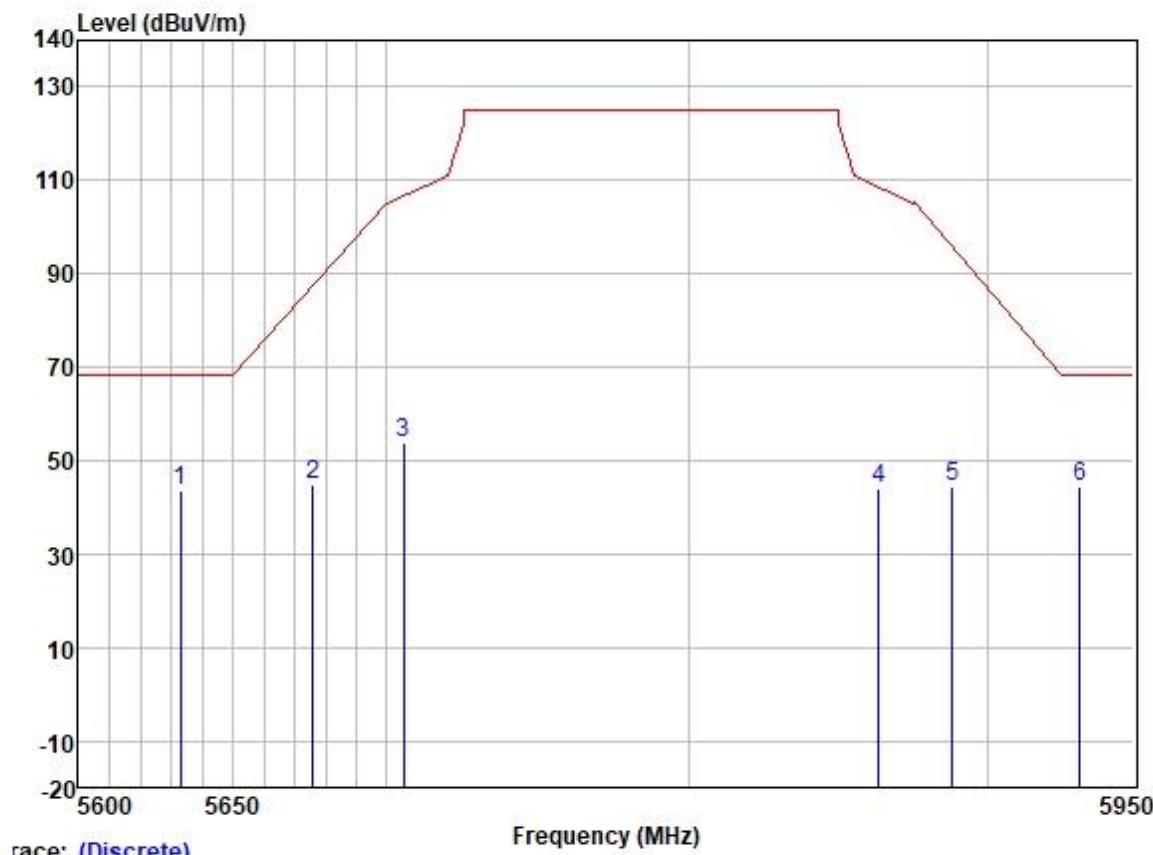
Test Mode: 10; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High



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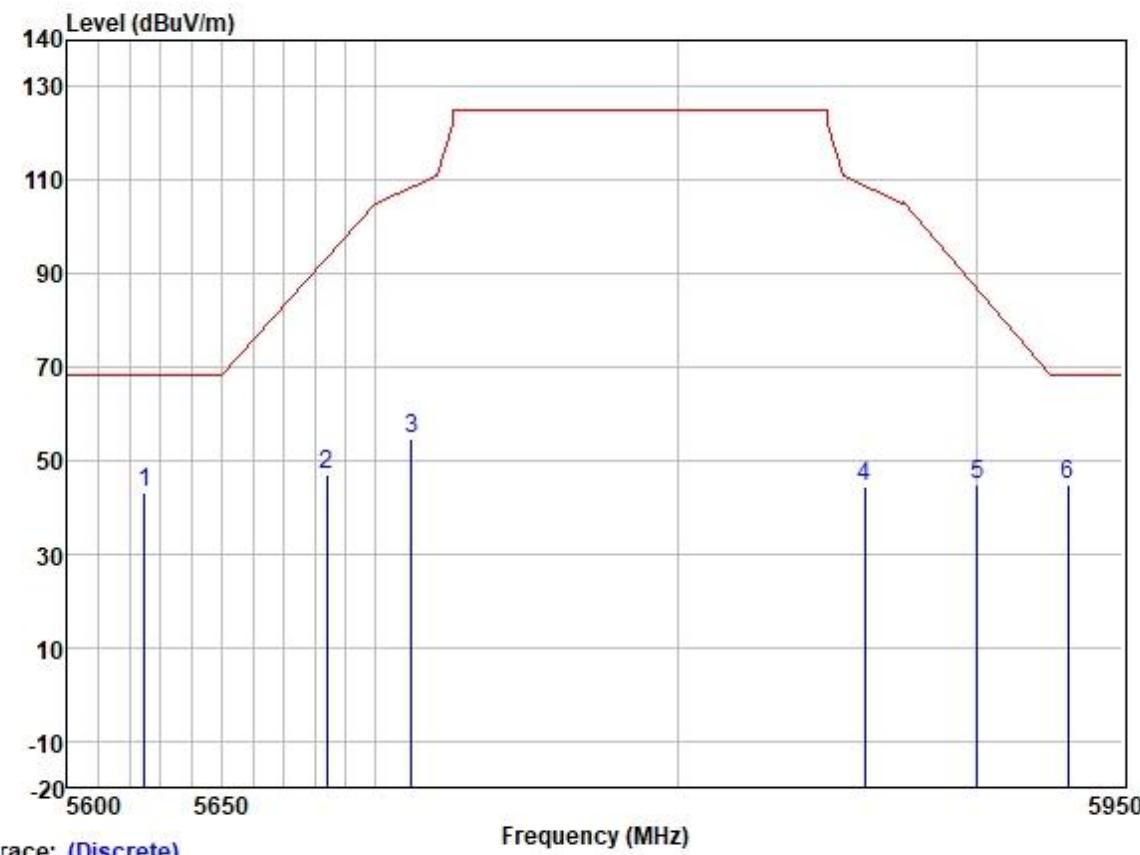
Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Index	Frequency (MHz)	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
		Freq	Level	Factor	dB						
MHz	dBuV	dB/m			dB	dBuV/m	dBuV/m	dB			
1	5624.838	42.61	31.93	5.69	36.89	43.34	68.20	-24.86	HORIZONTAL	Peak	
2	5684.143	46.18	31.99	5.73	36.89	47.01	93.50	-46.49	HORIZONTAL	Peak	
3	5711.777	53.63	32.04	5.76	36.89	54.54	108.50	-53.96	HORIZONTAL	Peak	
4	5862.277	43.24	32.27	5.91	36.90	44.52	108.76	-64.24	HORIZONTAL	Peak	
5	5900.429	43.50	32.31	5.93	36.90	44.84	86.38	-41.54	HORIZONTAL	Peak	
6	5931.272	43.54	32.34	5.95	36.90	44.93	68.20	-23.27	HORIZONTAL	Peak	

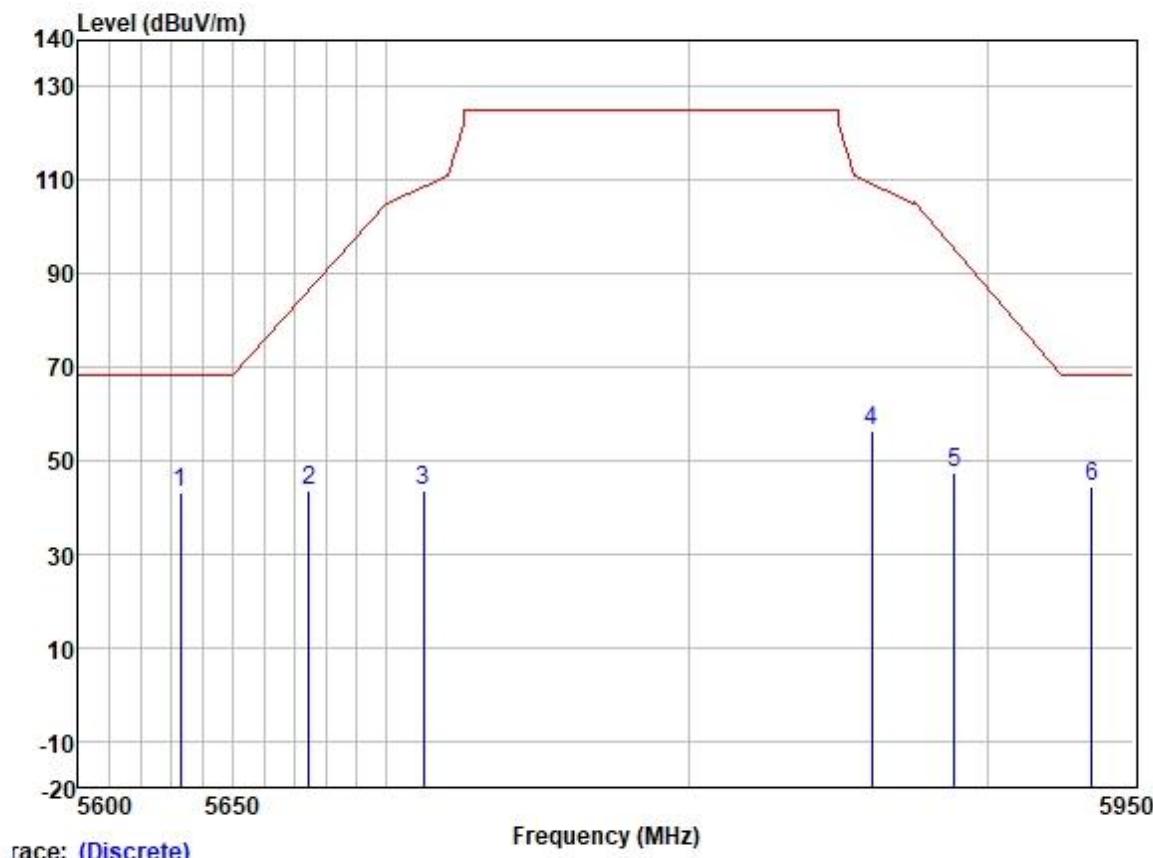
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Test Mode: 11; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor					
1	5633.028	42.38	31.93	5.69	36.89	43.11	68.20	-25.09	VERTICAL	Peak	
2	5674.502	42.86	31.99	5.73	36.89	43.69	86.37	-42.68	VERTICAL	Peak	
3	5712.124	42.54	32.04	5.76	36.89	43.45	108.60	-65.15	VERTICAL	Peak	
4	5860.856	55.22	32.27	5.91	36.90	56.50	109.16	-52.66	VERTICAL	Peak	
5	5888.993	46.00	32.29	5.92	36.90	47.31	94.86	-47.55	VERTICAL	Peak	
6	5935.589	43.17	32.34	5.95	36.90	44.56	68.20	-23.64	VERTICAL	Peak	

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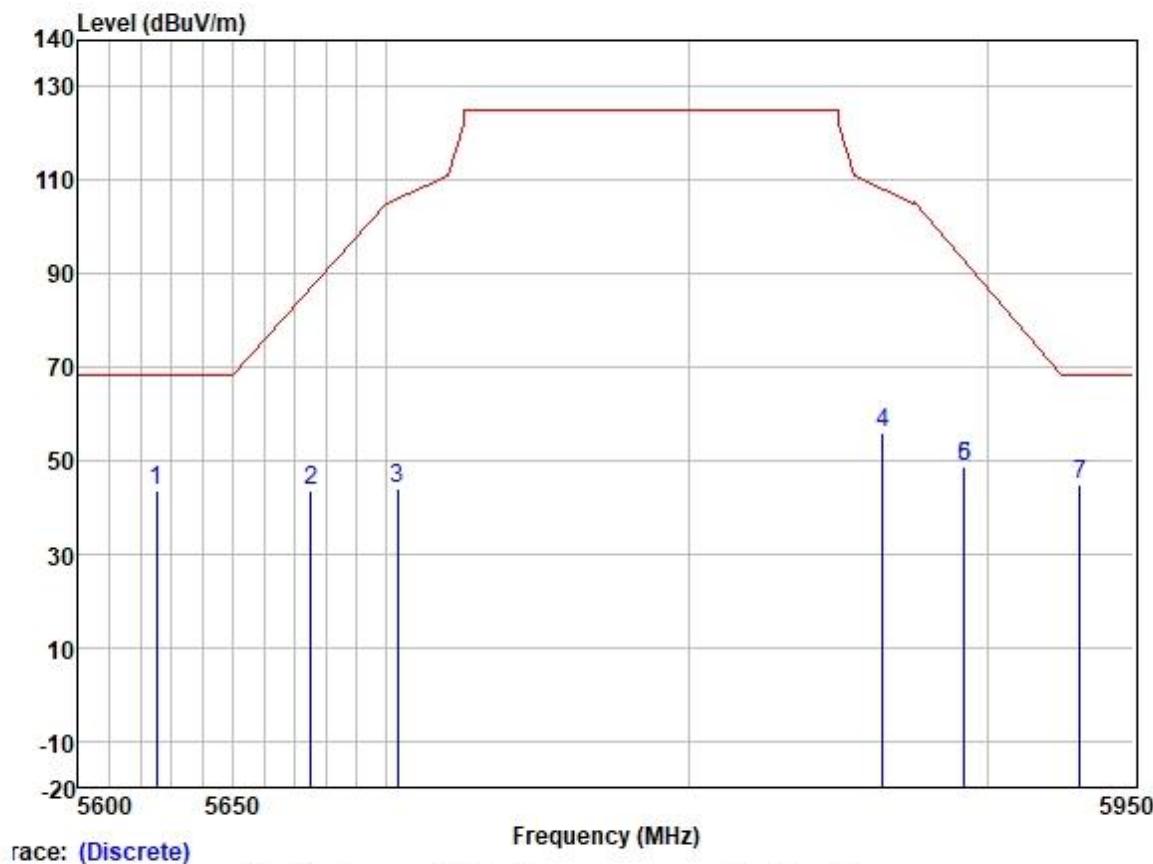
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	5625.179	42.79	31.93	5.69	36.89	43.52	68.20	-24.68	HORIZONTAL	Peak
2	5675.190	42.90	31.99	5.73	36.89	43.73	86.88	-43.15	HORIZONTAL	Peak
3	5703.473	42.96	32.01	5.75	36.89	43.83	106.17	-62.34	HORIZONTAL	Peak
4	5864.766	54.46	32.27	5.91	36.90	55.74	108.06	-52.32	HORIZONTAL	Peak
5	5892.207	47.50	32.31	5.93	36.90	48.84	92.48	-43.64	HORIZONTAL	Peak
6	5892.207	47.50	32.31	5.93	36.90	48.84	92.48	-43.64	HORIZONTAL	Peak
7	5931.632	43.47	32.34	5.95	36.90	44.86	68.20	-23.34	HORIZONTAL	Peak

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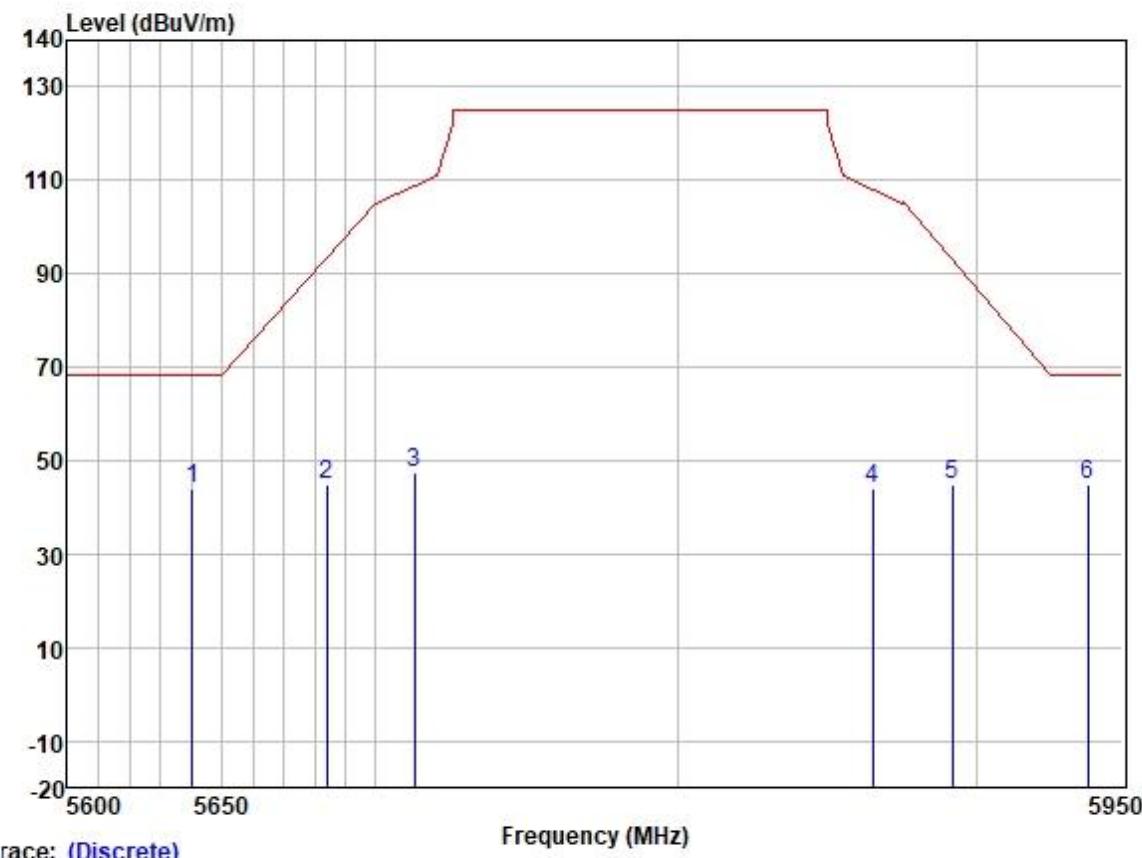
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor					
1	5640.205	43.27	31.95	5.70	36.89	44.03	68.20	-24.17	VERTICAL	Peak	
2	5684.143	44.08	31.99	5.73	36.89	44.91	93.50	-48.59	VERTICAL	Peak	
3	5712.816	46.71	32.04	5.76	36.89	47.62	108.79	-61.17	VERTICAL	Peak	
4	5865.122	42.92	32.27	5.91	36.90	44.20	107.96	-63.76	VERTICAL	Peak	
5	5891.850	43.53	32.31	5.93	36.90	44.87	92.74	-47.87	VERTICAL	Peak	
6	5938.108	43.47	32.34	5.95	36.90	44.86	68.20	-23.34	VERTICAL	Peak	

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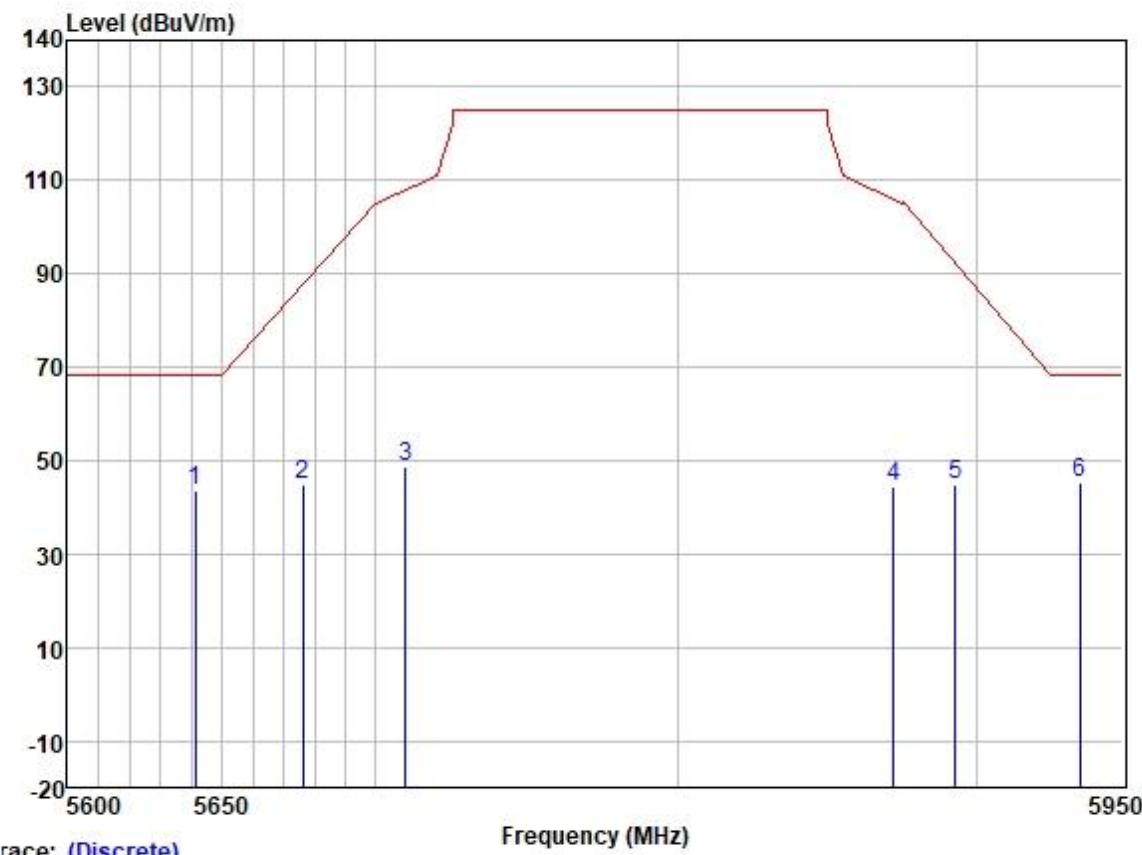
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	Freq	Level	Factor	dB						
	MHz	dBuV	dB/m							
1	5641.230	42.83	31.95	5.70	36.89	43.59	68.20	-24.61	HORIZONTAL	Peak
2	5676.222	43.82	31.99	5.73	36.89	44.65	87.65	-43.00	HORIZONTAL	Peak
3	5709.700	47.87	32.04	5.76	36.89	48.78	107.92	-59.14	HORIZONTAL	Peak
4	5872.237	43.34	32.27	5.91	36.90	44.62	105.97	-61.35	HORIZONTAL	Peak
5	5892.921	43.50	32.31	5.93	36.90	44.84	91.95	-47.11	HORIZONTAL	Peak
6	5935.229	43.86	32.34	5.95	36.90	45.25	68.20	-22.95	HORIZONTAL	Peak

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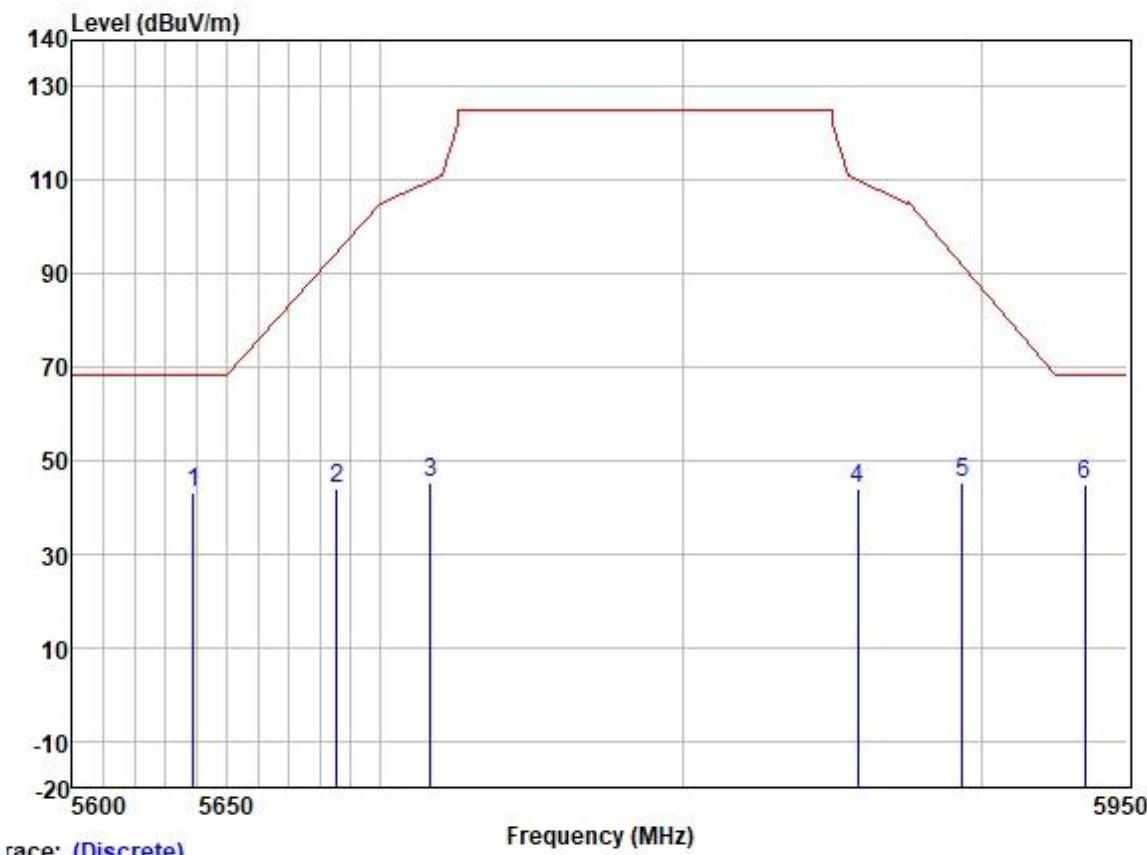
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Test Mode: 11; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	5639.179	42.30	31.93	5.69	36.89	43.03	68.20	-25.17	VERTICAL	Peak
2	5685.521	43.08	31.99	5.73	36.89	43.91	94.52	-50.61	VERTICAL	Peak
3	5716.281	44.57	32.04	5.76	36.89	45.48	109.76	-64.28	VERTICAL	Peak
4	5858.370	42.71	32.27	5.91	36.90	43.99	109.86	-65.87	VERTICAL	Peak
5	5893.636	43.81	32.31	5.93	36.90	45.15	91.42	-46.27	VERTICAL	Peak
6	5935.229	43.55	32.34	5.95	36.90	44.94	68.20	-23.26	VERTICAL	Peak

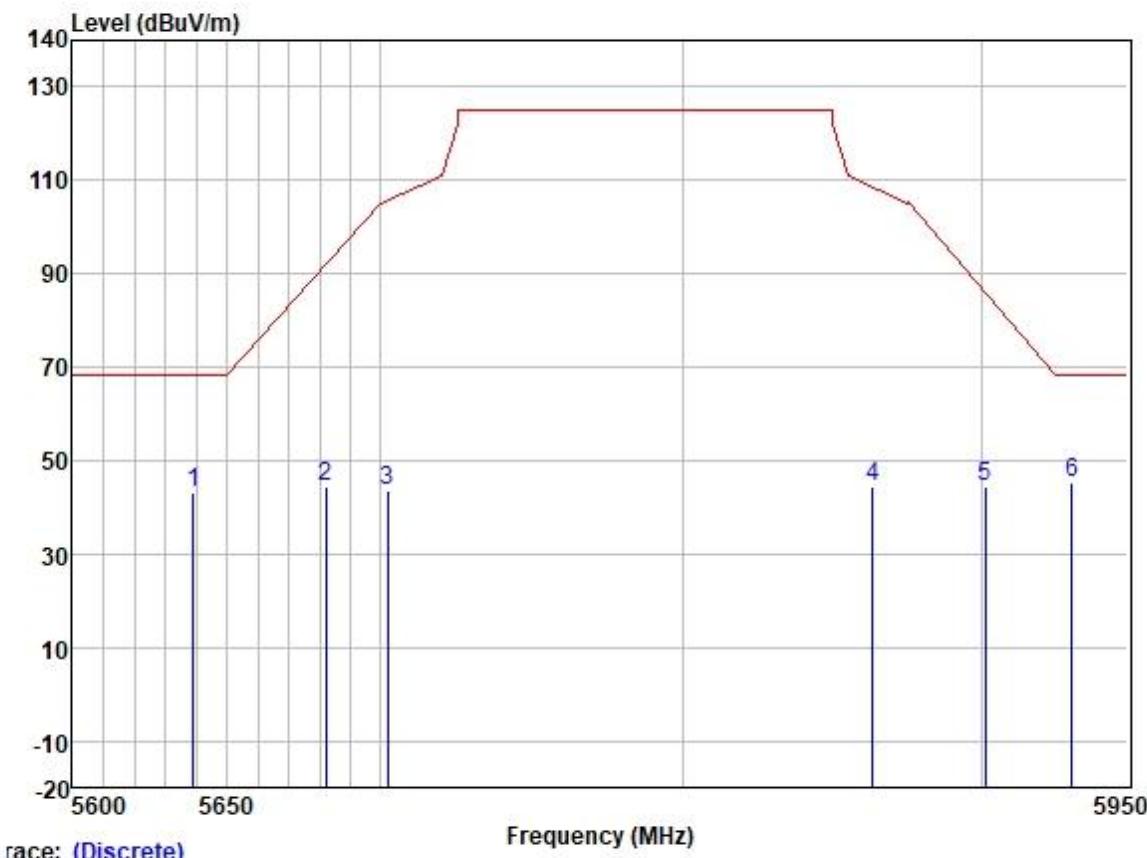
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



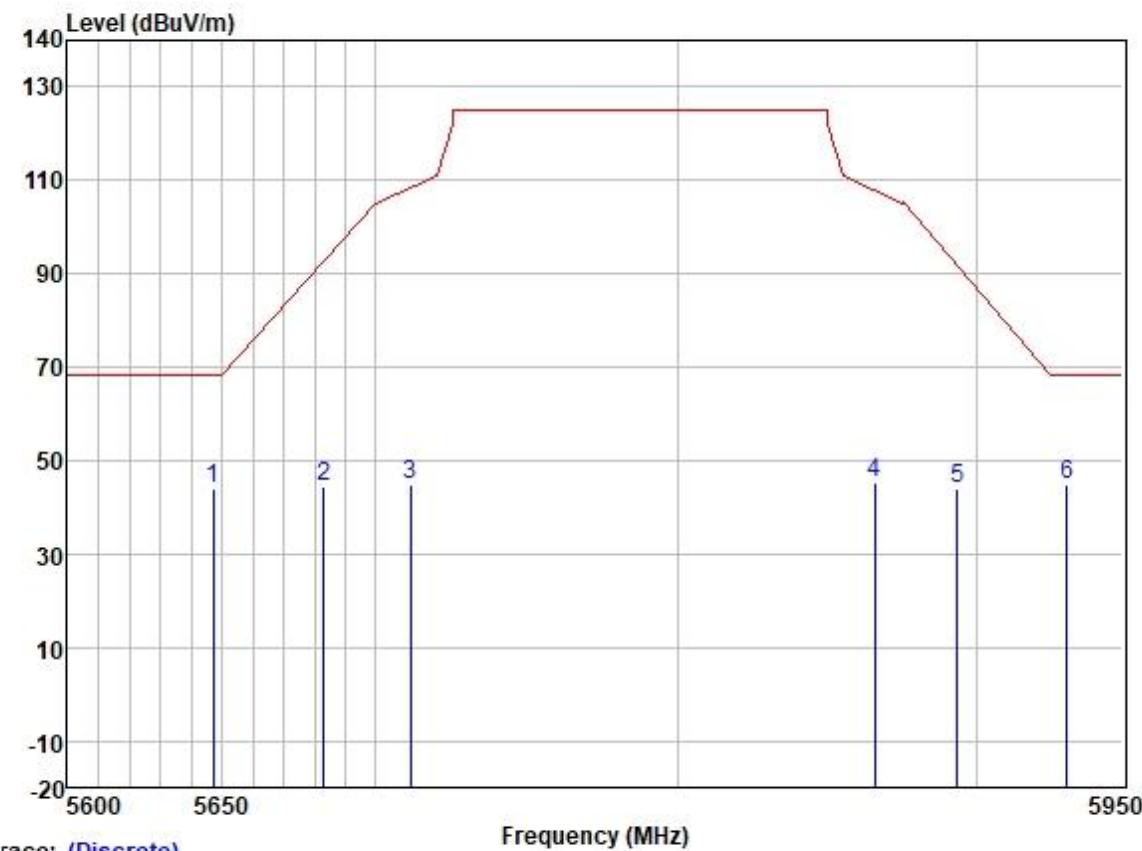
Index	Frequency (MHz)	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
		Freq	Level	Factor	Loss	Factor	Level				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5639.179	42.50	31.93	5.69	36.89	43.23	68.20	-24.97	HORIZONTAL	Peak	
2	5682.075	43.81	31.99	5.73	36.89	44.64	91.97	-47.33	HORIZONTAL	Peak	
3	5702.436	42.70	32.01	5.75	36.89	43.57	105.88	-62.31	HORIZONTAL	Peak	
4	5863.344	43.35	32.27	5.91	36.90	44.63	108.46	-63.83	HORIZONTAL	Peak	
5	5901.502	43.14	32.31	5.93	36.90	44.48	85.58	-41.10	HORIZONTAL	Peak	
6	5930.913	43.94	32.34	5.95	36.90	45.33	68.20	-22.87	HORIZONTAL	Peak	

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Test Mode: 11; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1	5647.047	43.10	31.95	5.70	36.89	43.86	68.20	-24.34	VERTICAL	Peak
2	5683.109	43.72	31.99	5.73	36.89	44.55	92.74	-48.19	VERTICAL	Peak
3	5711.431	44.07	32.04	5.76	36.89	44.98	108.40	-63.42	VERTICAL	Peak
4	5865.833	44.19	32.27	5.91	36.90	45.47	107.76	-62.29	VERTICAL	Peak
5	5893.636	42.69	32.31	5.93	36.90	44.03	91.42	-47.39	VERTICAL	Peak
6	5930.913	43.50	32.34	5.95	36.90	44.89	68.20	-23.31	VERTICAL	Peak

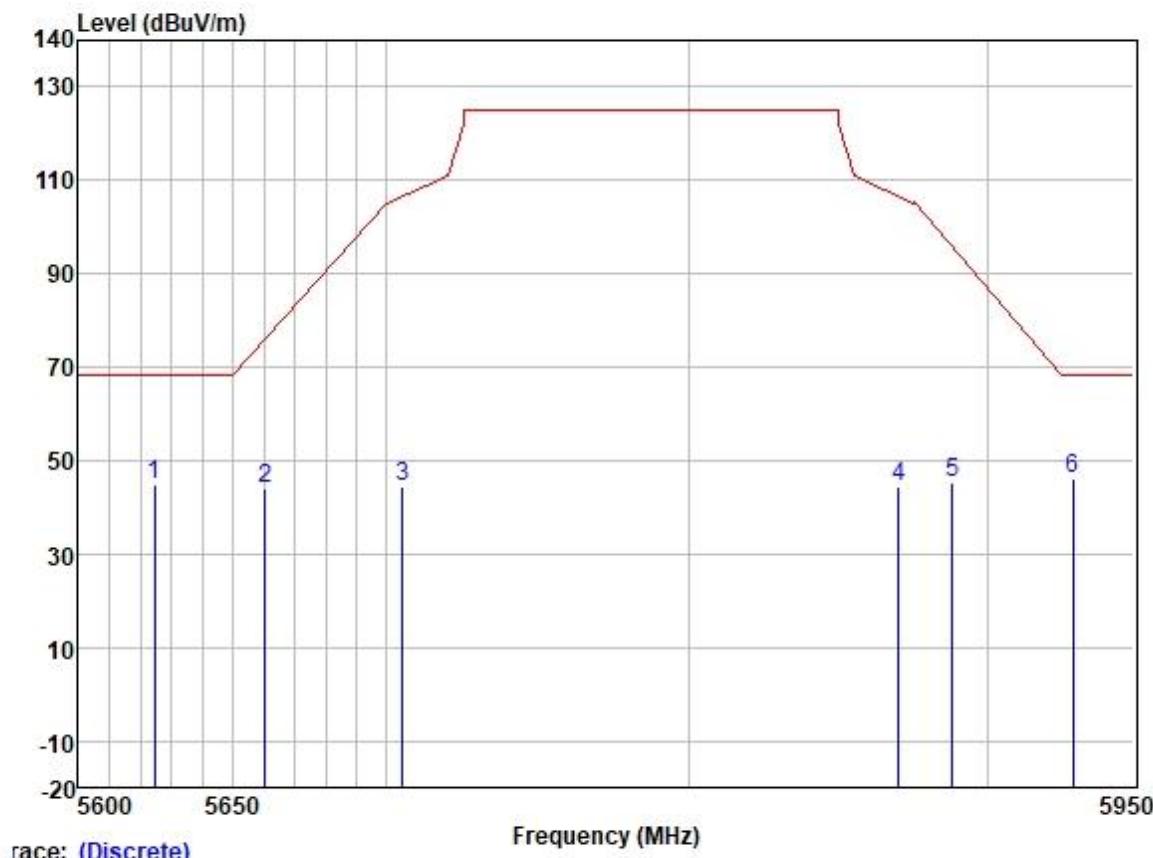
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Test Mode: 11; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low



Race: (Discrete)

	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss	Factor	Level					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5624.497	43.93	31.93	5.69	36.89	44.66	68.20	-23.54	HORIZONTAL	Peak	
2	5660.415	43.33	31.97	5.72	36.89	44.13	75.93	-31.80	HORIZONTAL	Peak	
3	5705.202	43.38	32.01	5.75	36.89	44.25	106.66	-62.41	HORIZONTAL	Peak	
4	5870.102	43.01	32.27	5.91	36.90	44.29	106.57	-62.28	HORIZONTAL	Peak	
5	5888.279	43.92	32.29	5.92	36.90	45.23	95.39	-50.16	HORIZONTAL	Peak	
6	5929.115	44.96	32.34	5.95	36.90	46.35	68.20	-21.85	HORIZONTAL	Peak	

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**7.10 Frequency Stability**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)  
 Test Method: KDB 789033 II A 3

**7.10.1 E.U.T. Operation**

Operating Environment:

Temperature: 22.8 °C      Humidity: 53.3 % RH      Atmospheric Pressure: 1022 mbar

**7.10.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	10	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	11	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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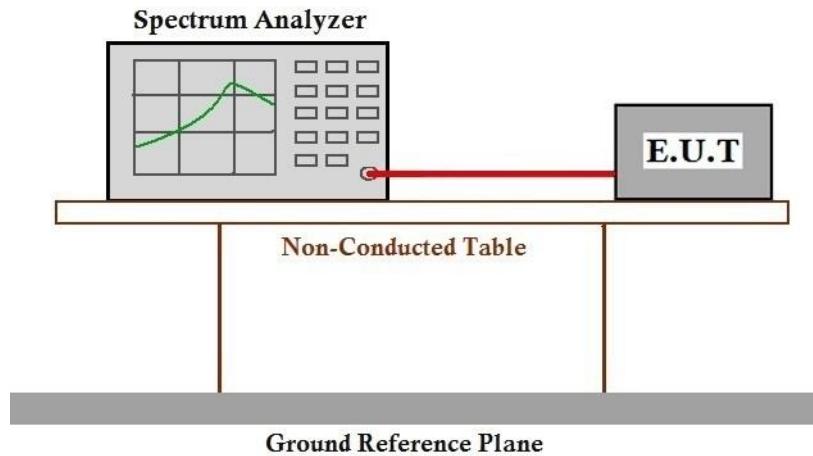
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**7.10.3 Test Setup Diagram****7.10.4 Measurement Procedure and Data**

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.

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**7.11 Radiated Emissions (Below 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.209 &amp; 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

**7.11.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.7 °C

Humidity: 61.3 % RH

Atmospheric Pressure: 1018 mbar

**7.11.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	08	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	09	TX mode (U-NII-2A)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Pre-scan	10	TX mode (U-NII-2C)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

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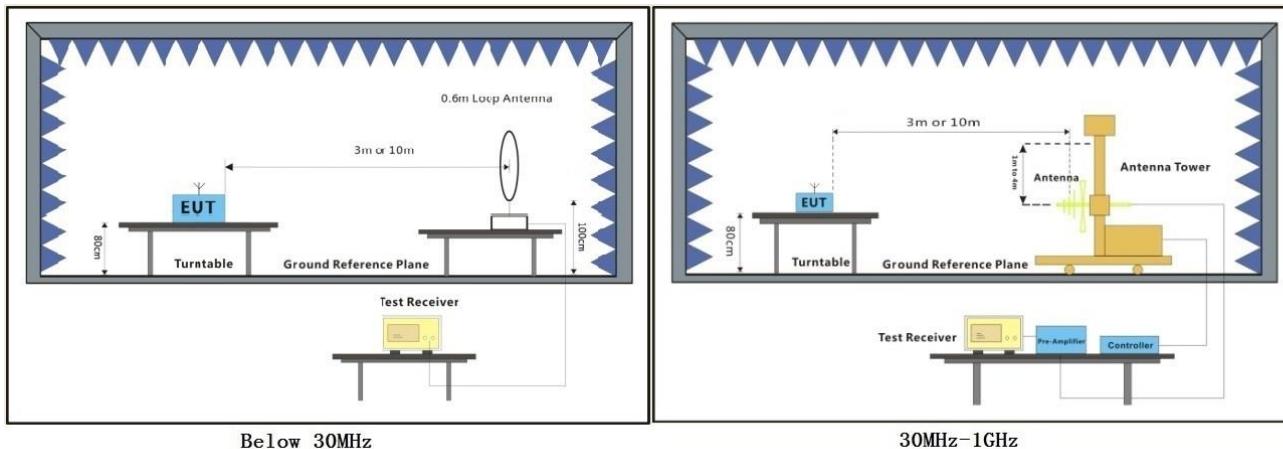


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Pre-scan 11

TX mode (U-NII-3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 7.11.3 Test Setup Diagram



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**7.11.4 Measurement Procedure and Data**

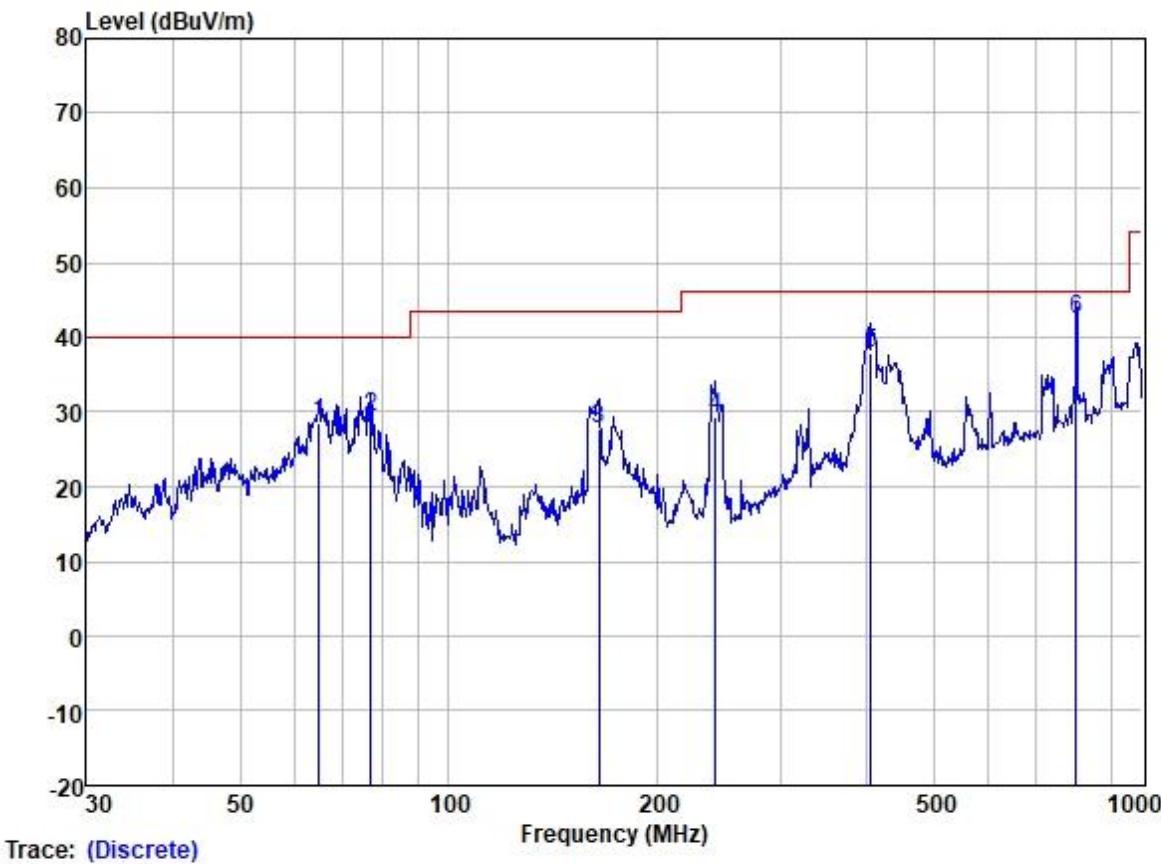
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 10; Polarity: Horizontal



Site : SGS  
 Job :  
 Model :  
 Power :  
 Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	64.89	41.61	12.75	1.35	27.15	28.56	40.00	-11.44	HORIZONTAL QP
2	77.05	45.01	9.85	1.46	27.10	29.22	40.00	-10.78	HORIZONTAL QP
3	164.33	38.57	13.48	2.37	26.79	27.63	43.50	-15.87	HORIZONTAL QP
4	242.53	41.10	11.95	2.84	26.65	29.24	46.00	-16.76	HORIZONTAL QP
5	406.09	45.46	15.82	3.95	27.36	37.87	46.00	-8.13	HORIZONTAL QP
6	801.79	41.75	22.62	6.17	28.03	42.51	46.00	-3.49	HORIZONTAL QP

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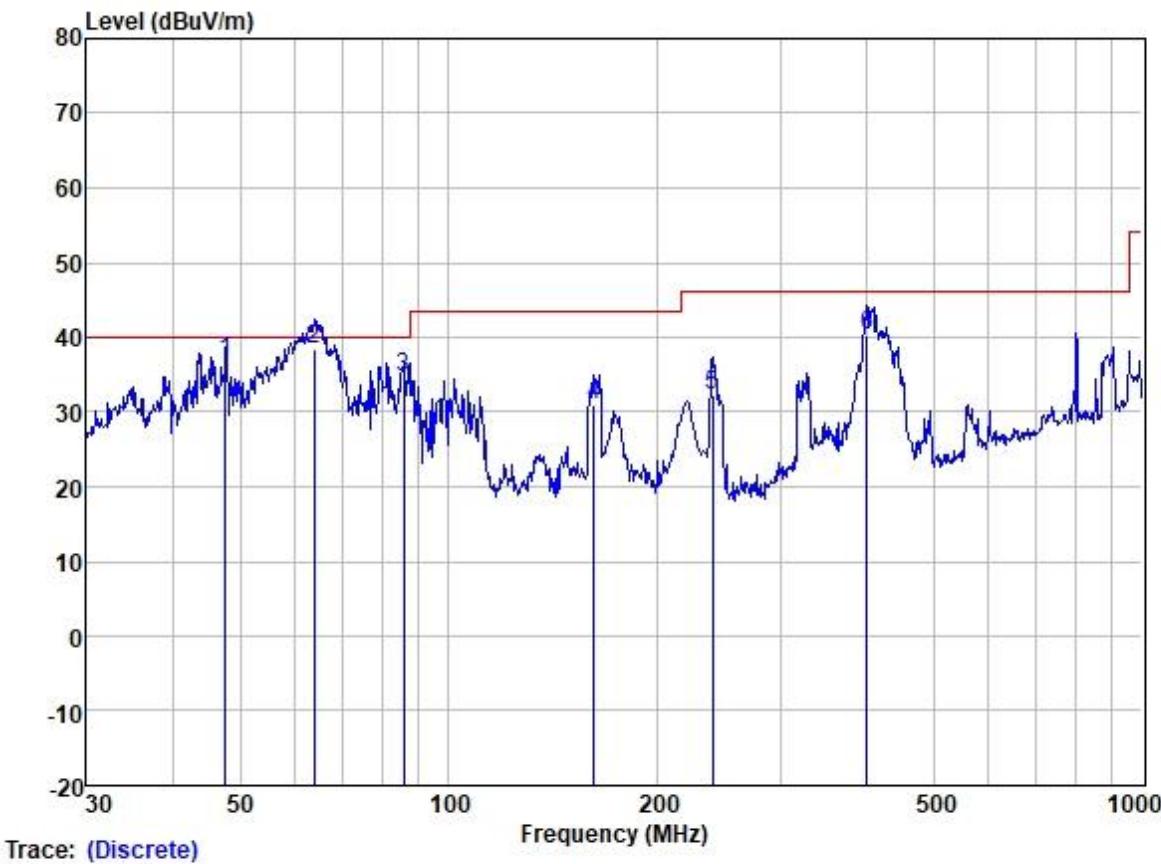


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Test Mode: 10; Polarity: Vertical



Site : SGS  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	47.66	48.83	13.99	1.13	27.17	36.78	40.00	-3.22	VERTICAL QP
2	63.98	51.20	12.90	1.32	27.15	38.27	40.00	-1.73	VERTICAL QP
3	85.90	52.57	7.70	1.55	27.09	34.73	40.00	-5.27	VERTICAL QP
4	162.04	41.88	13.60	2.34	26.79	31.03	43.50	-12.47	VERTICAL QP
5	239.99	44.23	11.90	2.81	26.66	32.28	46.00	-13.72	VERTICAL QP
6	400.43	48.01	15.70	3.93	27.33	40.31	46.00	-5.69	VERTICAL QP

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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR21102137105



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## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2111021371HS



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## 10 Appendix

### 10.1 Duty Cycle

#### 1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.172	0.275	62.55	2.04	0.09
		5200	0.172	0.275	62.55	2.04	0.08
		5240	0.172	0.274	62.77	2.02	0.14
		5260	0.172	0.274	62.77	2.02	0.13
		5300	0.172	0.275	62.55	2.04	0.12
		5320	0.175	0.274	63.87	1.95	0.04
		5500	0.175	0.275	63.64	1.96	0.04
		5580	0.172	0.274	62.77	2.02	0.12
		5700	0.175	0.274	63.87	1.95	0.04
		5745	0.173	0.275	62.91	2.01	0.06
		5785	0.175	0.275	63.64	1.96	0.08
		5825	0.173	0.275	62.91	2.01	0.13
802.11n (HT20)	MIMO	5180	0.160	0.263	60.84	2.16	0.14
		5200	0.162	0.263	61.60	2.10	0.06
		5240	0.161	0.263	61.22	2.13	0.14
		5260	0.161	0.263	61.22	2.13	0.18
		5300	0.166	0.263	63.12	2.00	0.04
		5320	0.161	0.263	61.22	2.13	0.14
		5500	0.160	0.263	60.84	2.16	0.12
		5580	0.167	0.263	63.50	1.97	0.04
		5700	0.161	0.263	61.22	2.13	0.15
		5745	0.160	0.263	60.84	2.16	0.18
		5785	0.167	0.263	63.50	1.97	0.04
		5825	0.160	0.262	61.07	2.14	0.20
802.11n (HT40)	MIMO	5190	0.100	0.200	50.00	3.01	0.05
		5230	0.100	0.199	50.25	2.99	0.08
		5270	0.097	0.199	48.74	3.12	0.10
		5310	0.098	0.199	49.25	3.08	0.07
		5510	0.100	0.199	50.25	2.99	0.07
		5550	0.104	0.199	52.26	2.82	0.08
		5670	0.097	0.199	48.74	3.12	0.17
		5755	0.097	0.199	48.74	3.12	0.13
		5795	0.099	0.199	49.75	3.03	0.17
802.11ac (VHT20)	MIMO	5180	1.932	1.952	98.98	0.04	0.03
		5200	1.932	1.951	99.03	0.04	0.03
		5240	1.932	1.952	98.98	0.04	0.03

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		5260	1.932	1.952	98.98	0.04	0.03
		5300	1.932	1.952	98.98	0.04	0.03
		5320	1.932	1.952	98.98	0.04	0.03
		5500	1.932	1.952	98.98	0.04	0.03
		5580	1.932	1.951	99.03	0.04	0.03
		5700	1.932	2.258	85.56	0.68	13.46
		5745	1.932	1.951	99.03	0.04	0.03
		5785	1.932	1.952	98.98	0.04	0.03
		5825	1.932	1.952	98.98	0.04	0.03
802.11ac (VHT40)	MIMO	5190	1.544	1.564	98.72	0.06	0.03
		5230	1.544	1.563	98.78	0.05	0.03
		5270	1.544	1.564	98.72	0.06	0.03
		5310	1.544	1.564	98.72	0.06	0.03
		5510	1.544	1.564	98.72	0.06	0.03
		5550	1.543	1.562	98.78	0.05	0.03
		5670	1.544	1.563	98.78	0.05	0.03
		5755	1.544	1.564	98.72	0.06	0.03
		5795	1.544	1.564	98.72	0.06	0.03
802.11ac (VHT80)	MIMO	5210	2.239	2.259	99.11	0.04	0.04
		5290	2.239	2.259	99.11	0.04	0.04
		5530	2.240	2.260	99.12	0.04	0.04
		5775	2.240	2.260	99.12	0.04	0.04
Ant2							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	0.173	0.275	62.91	2.01	0.16
		5200	0.175	0.275	63.64	1.96	0.10
		5240	0.173	0.275	62.91	2.01	0.08
		5260	0.174	0.275	63.27	1.99	0.10
		5300	0.172	0.274	62.77	2.02	0.10
		5320	0.175	0.275	63.64	1.96	0.09
		5500	0.172	0.275	62.55	2.04	0.11
		5580	0.172	0.275	62.55	2.04	0.13
		5700	0.175	0.275	63.64	1.96	0.05
		5745	0.171	0.274	62.41	2.05	0.11
		5785	0.173	0.275	62.91	2.01	0.13
		5825	0.172	0.275	62.55	2.04	0.15
802.11n (HT20)	MIMO	5180	0.160	0.263	60.84	2.16	0.13
		5200	0.166	0.262	63.36	1.98	0.06
		5240	0.162	0.263	61.60	2.10	0.21
		5260	0.161	0.263	61.22	2.13	0.11
		5300	0.167	0.263	63.50	1.97	0.04
		5320	0.160	0.263	60.84	2.16	0.16
		5500	0.160	0.262	61.07	2.14	0.13
		5580	0.167	0.263	63.50	1.97	0.04
		5700	0.160	0.263	60.84	2.16	0.21

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		5745	0.161	0.263	61.22	2.13	0.08
		5785	0.167	0.263	63.50	1.97	0.04
		5825	0.161	0.263	61.22	2.13	0.20
802.11n (HT40)	MIMO	5190	0.097	0.199	48.74	3.12	0.17
		5230	0.098	0.199	49.25	3.08	0.10
		5270	0.100	0.199	50.25	2.99	0.07
		5310	0.097	0.199	48.74	3.12	0.17
		5510	0.098	0.200	49.00	3.10	0.08
		5550	0.103	0.199	51.76	2.86	0.03
		5670	0.100	0.199	50.25	2.99	0.07
		5755	0.100	0.200	50.00	3.01	0.08
		5795	0.098	0.199	49.25	3.08	0.12
		5180	1.932	1.951	99.03	0.04	0.03
802.11ac (VHT20)	MIMO	5200	1.932	1.951	99.03	0.04	0.03
		5240	1.932	1.951	99.03	0.04	0.03
		5260	1.932	1.951	99.03	0.04	0.03
		5300	1.932	1.951	99.03	0.04	0.03
		5320	1.932	1.951	99.03	0.04	0.03
		5500	1.932	1.951	99.03	0.04	0.03
		5580	1.931	1.951	98.97	0.04	0.03
		5700	1.932	1.951	99.03	0.04	0.03
		5745	1.932	1.952	98.98	0.04	0.03
		5785	1.931	1.950	99.03	0.04	0.03
		5825	1.931	1.950	99.03	0.04	0.03
802.11ac (VHT40)	MIMO	5190	87.160	87.490	99.62	0.02	0.00
		5230	1.544	1.564	98.72	0.06	0.03
		5270	1.544	1.563	98.78	0.05	0.03
		5310	1.544	1.563	98.78	0.05	0.03
		5510	1.544	1.564	98.72	0.06	0.03
		5550	1.544	1.563	98.78	0.05	0.03
		5670	59.817	60.147	99.45	0.02	0.00
		5755	65.573	65.903	99.50	0.02	0.00
		5795	1.544	1.564	98.72	0.06	0.03
802.11ac (VHT80)	MIMO	5210	2.240	2.260	99.12	0.04	0.04
		5290	2.240	2.260	99.12	0.04	0.04
		5530	2.239	2.259	99.11	0.04	0.04
		5775	2.240	2.260	99.12	0.04	0.04

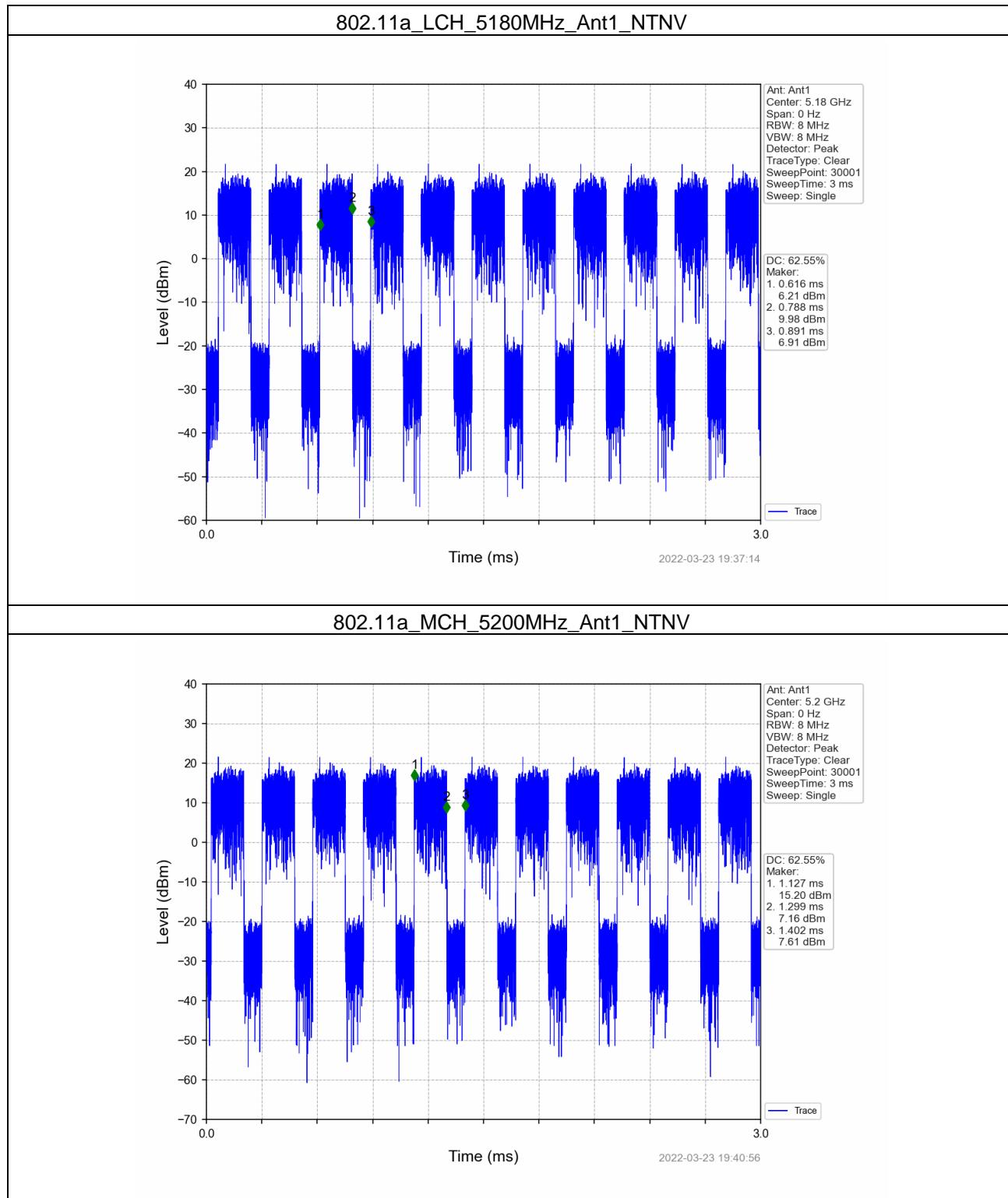
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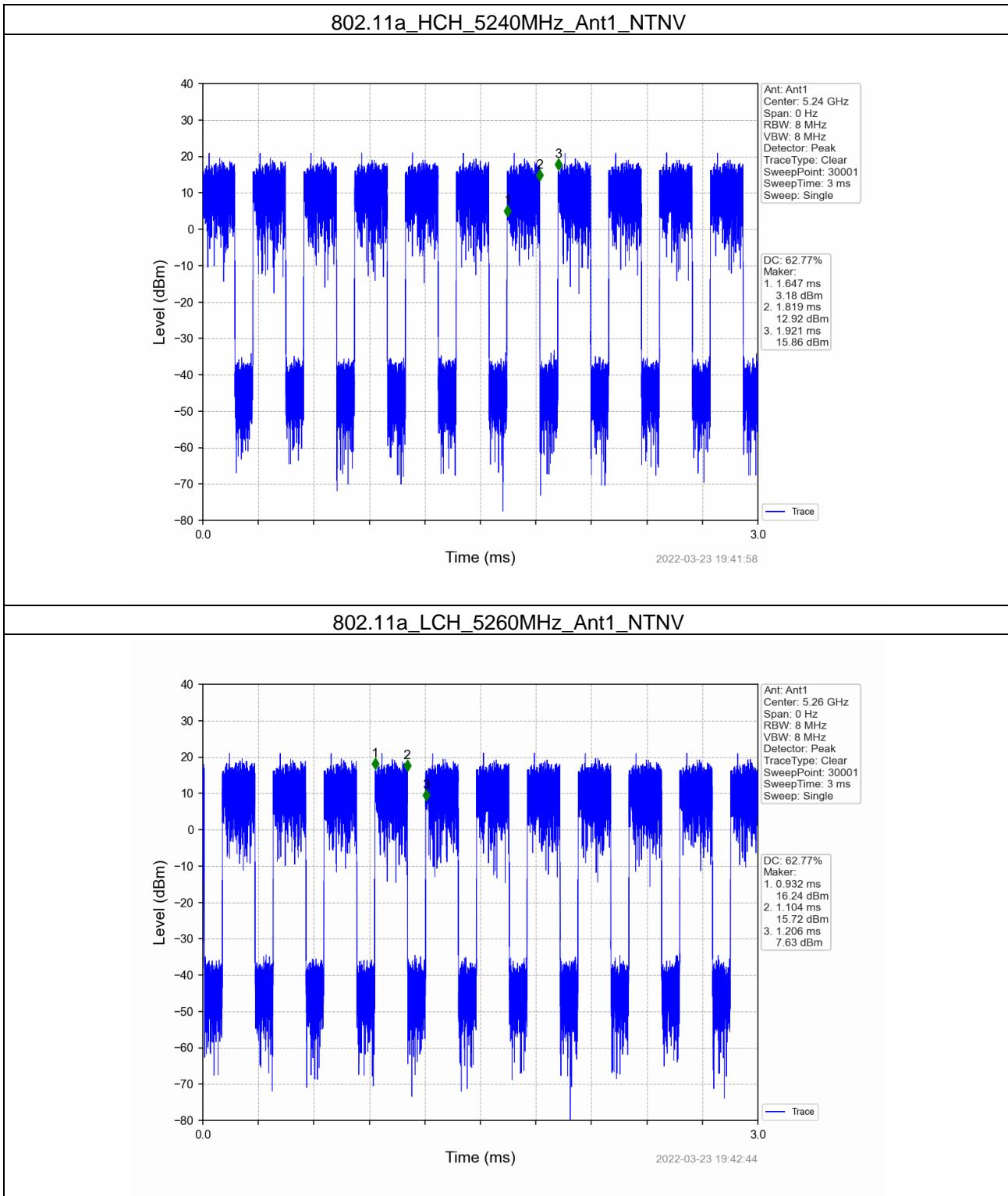
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**1.1.2 Test Graph**

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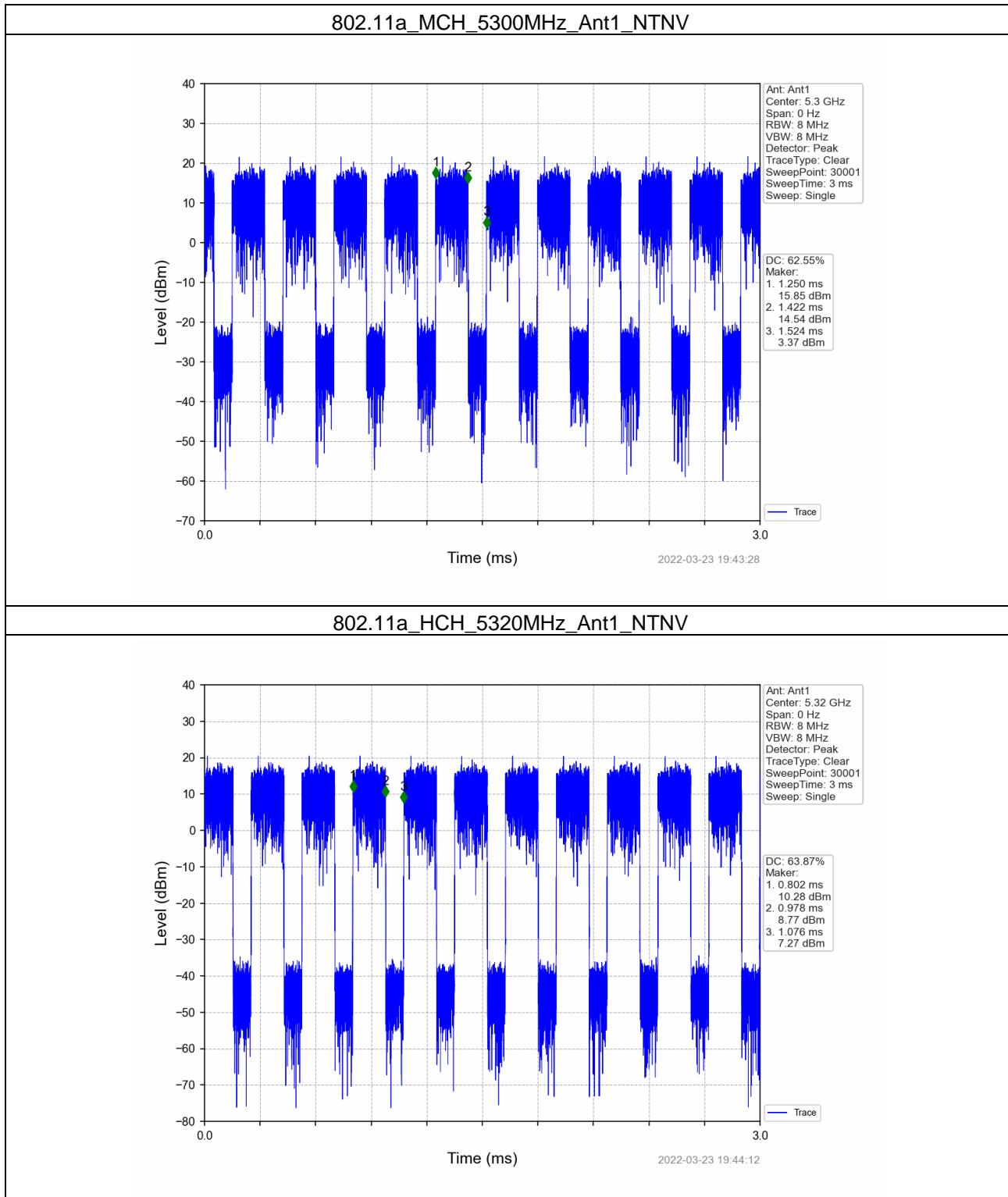
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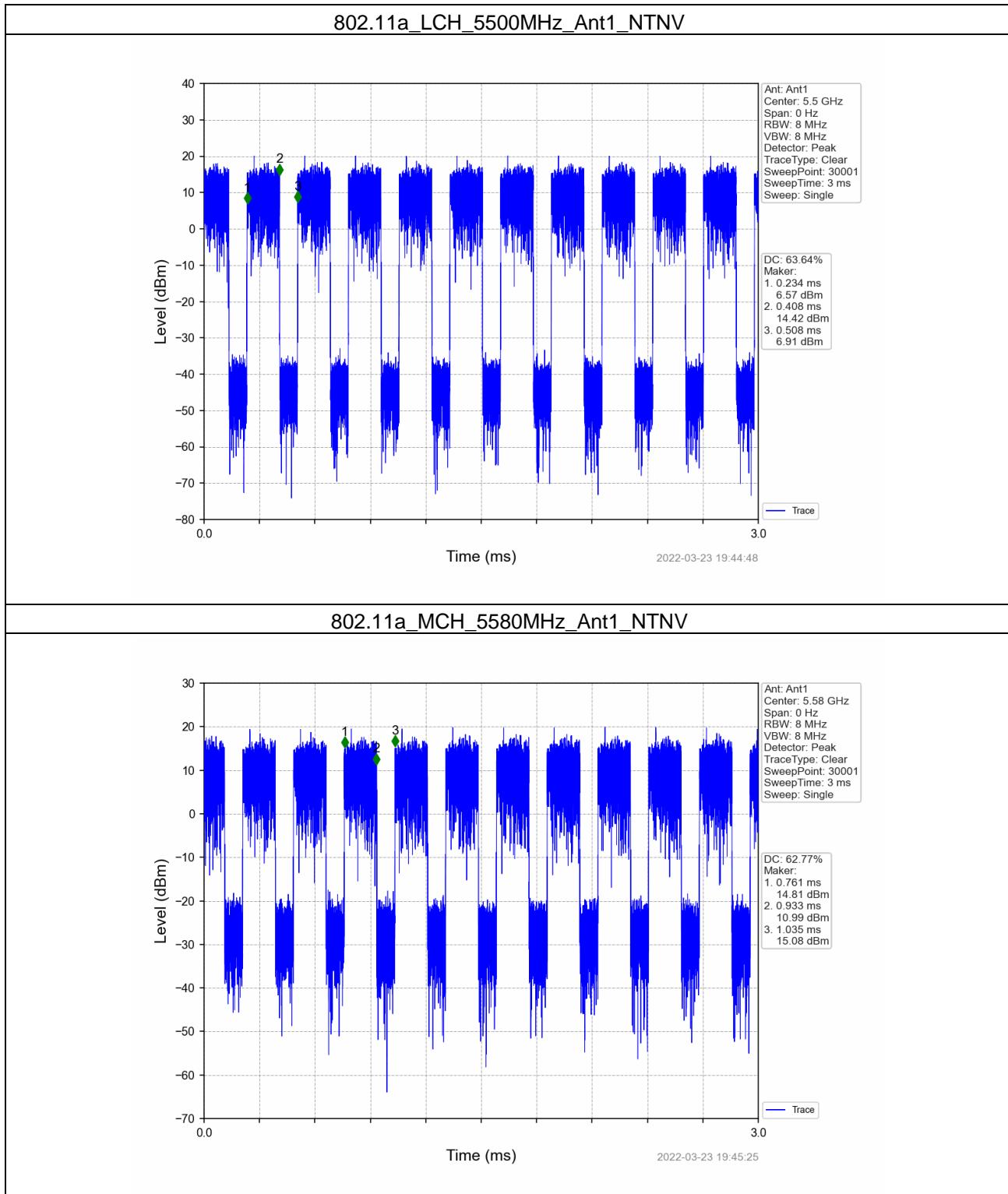


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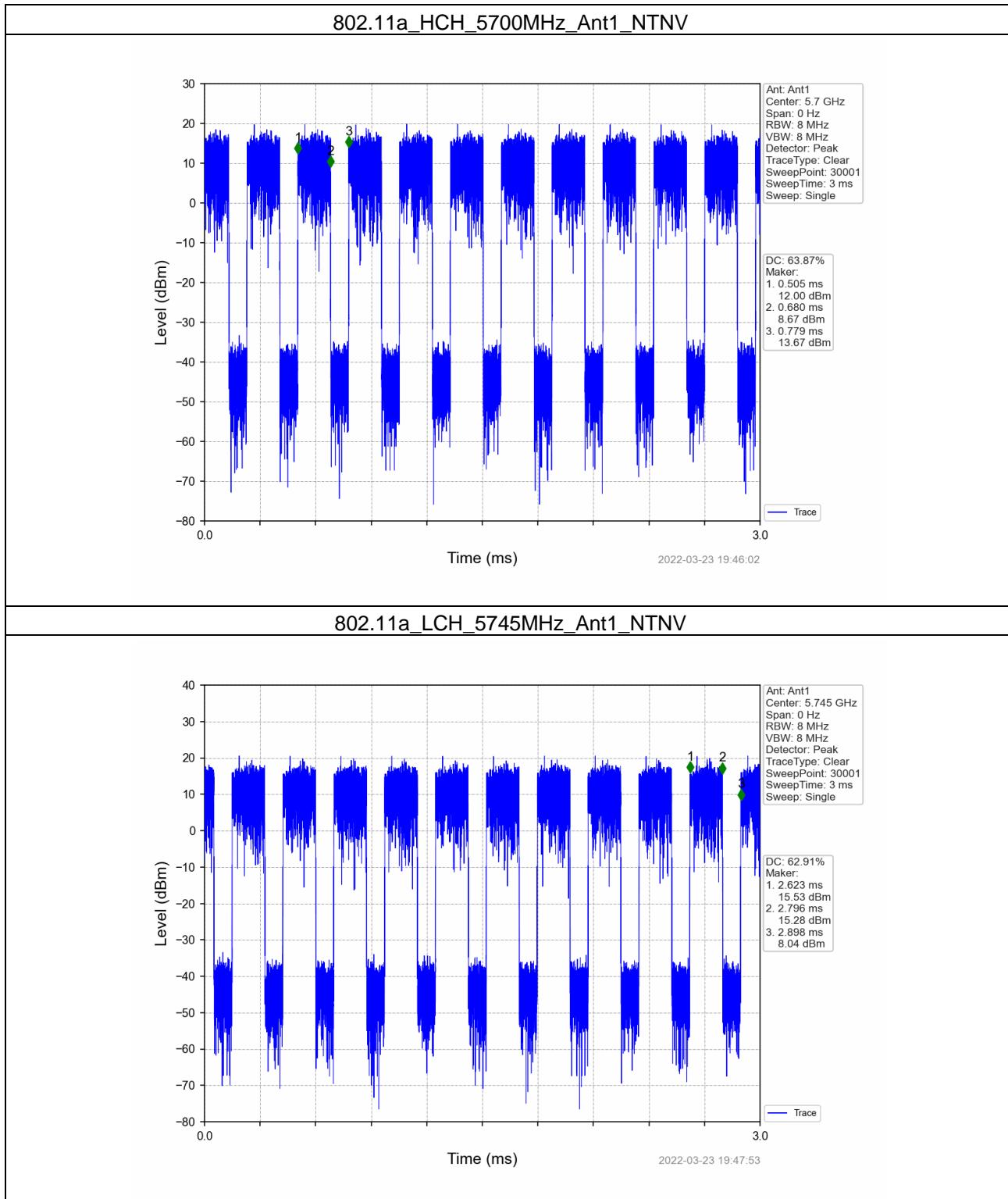


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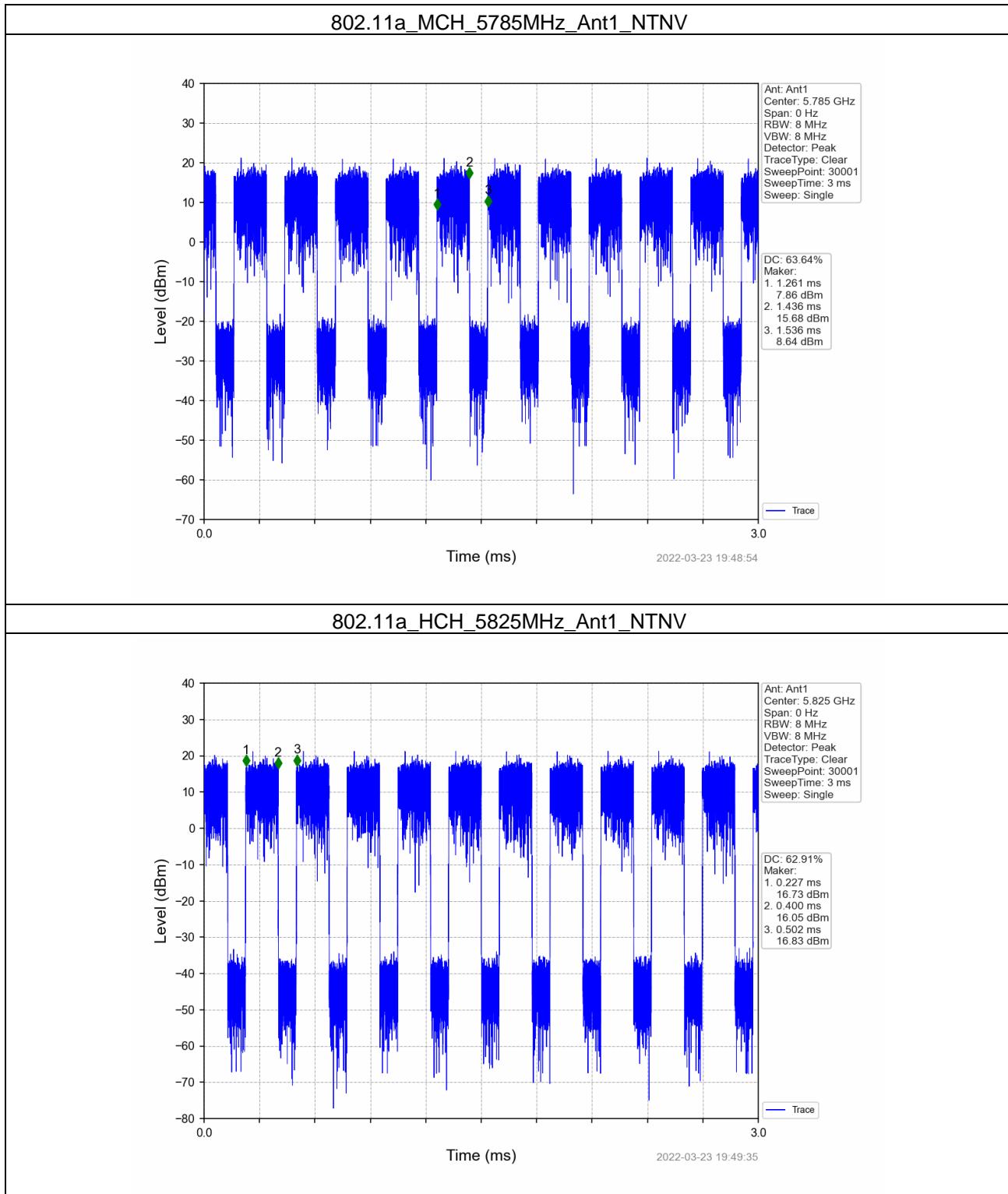


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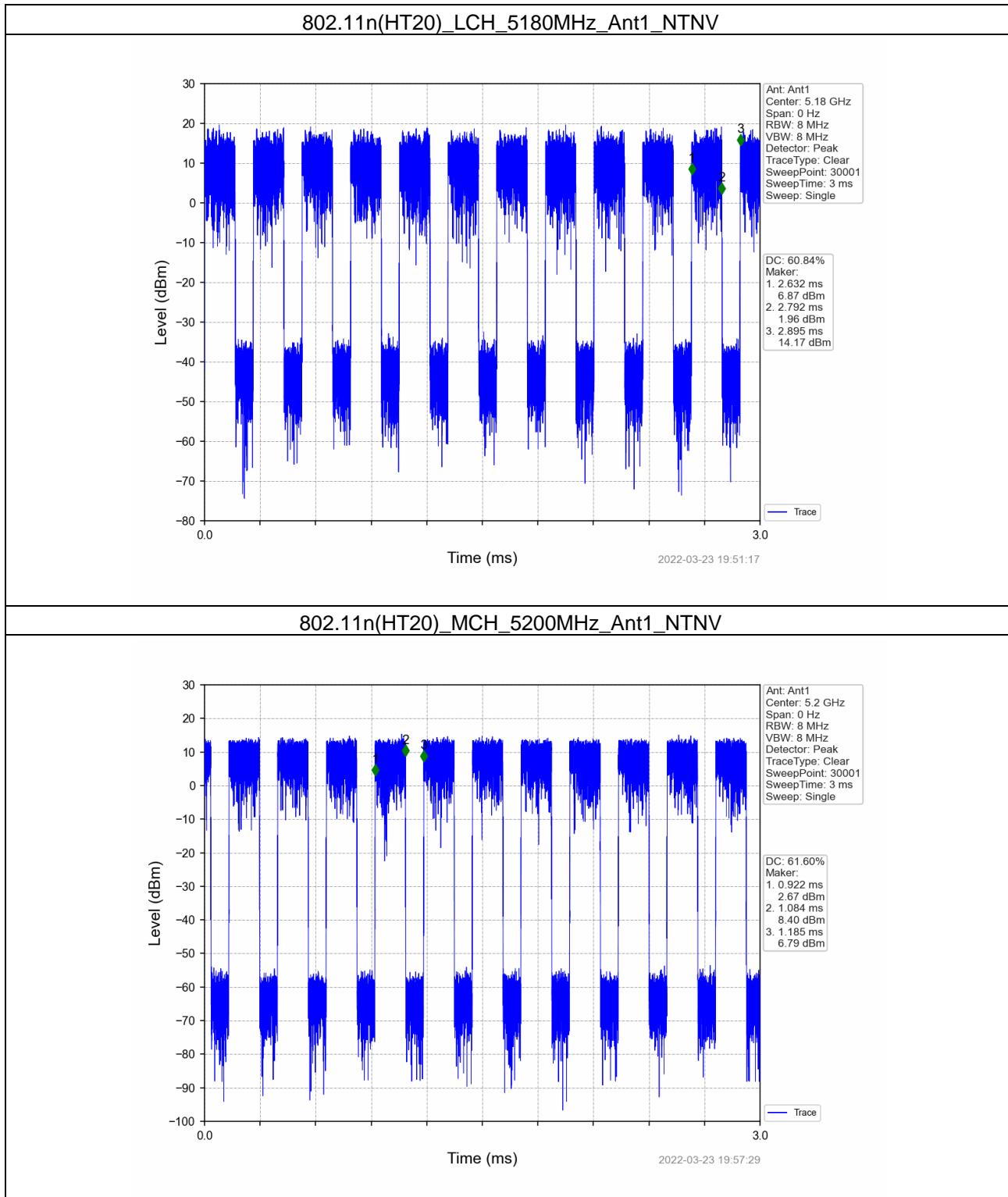
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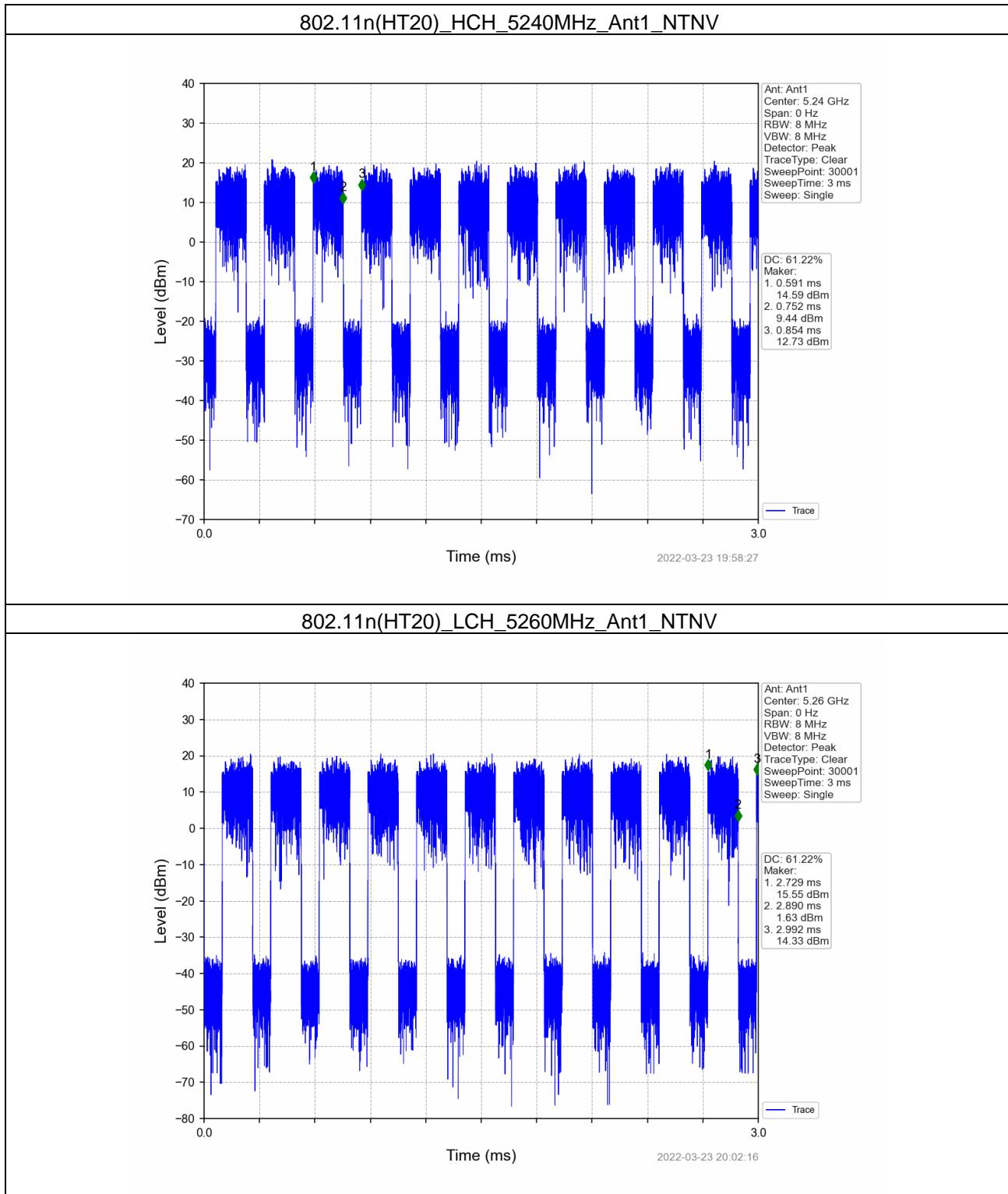
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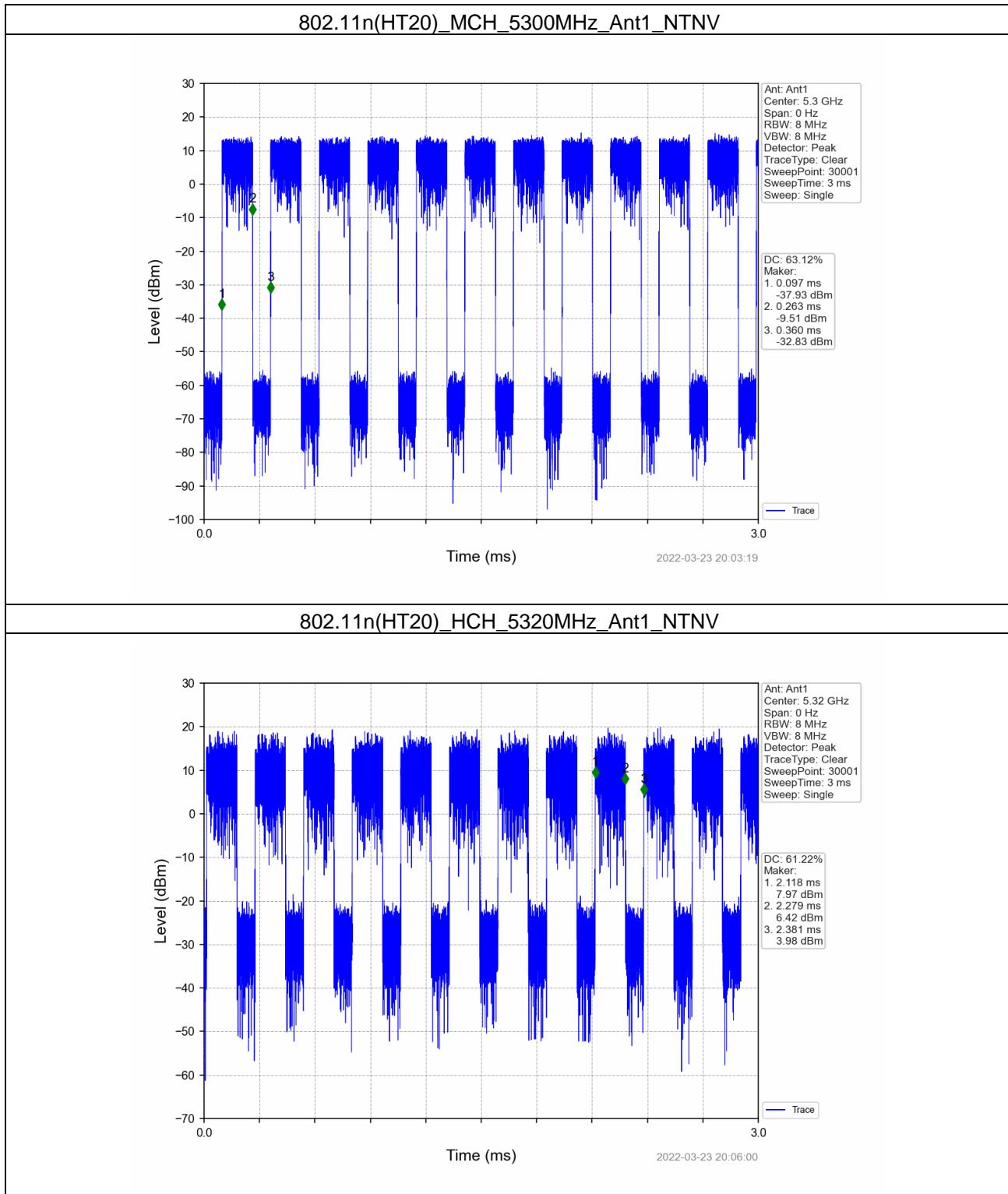


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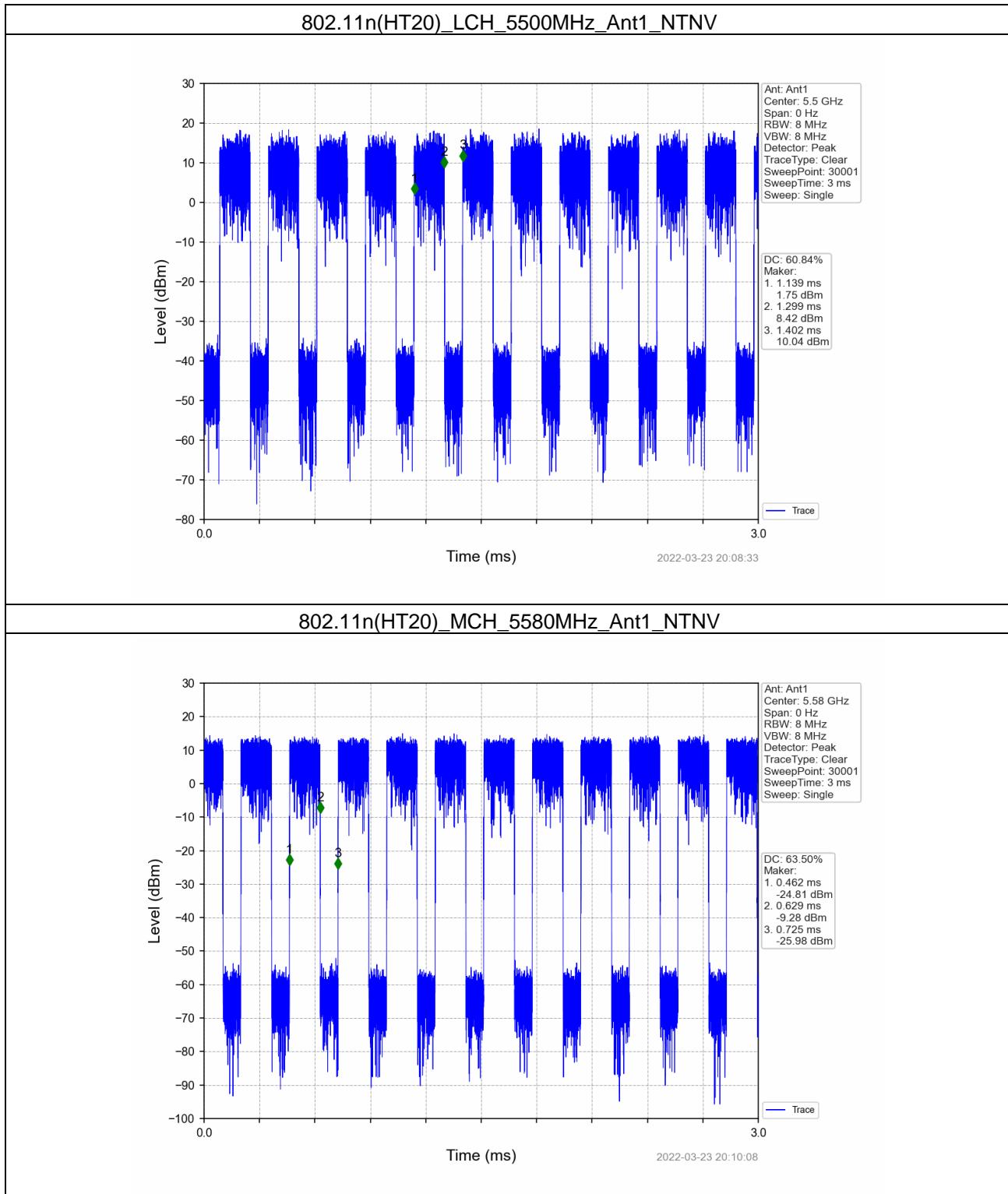


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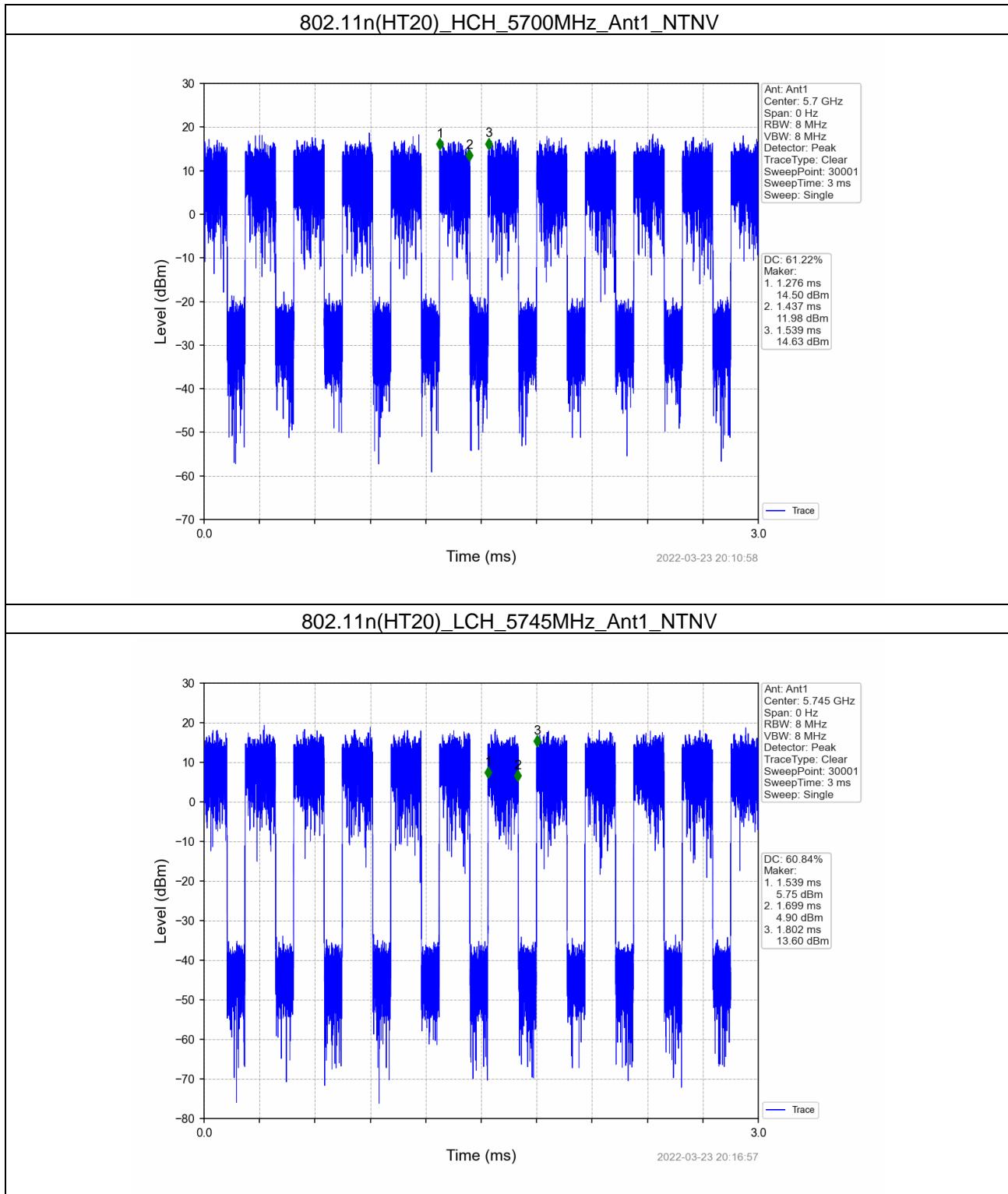


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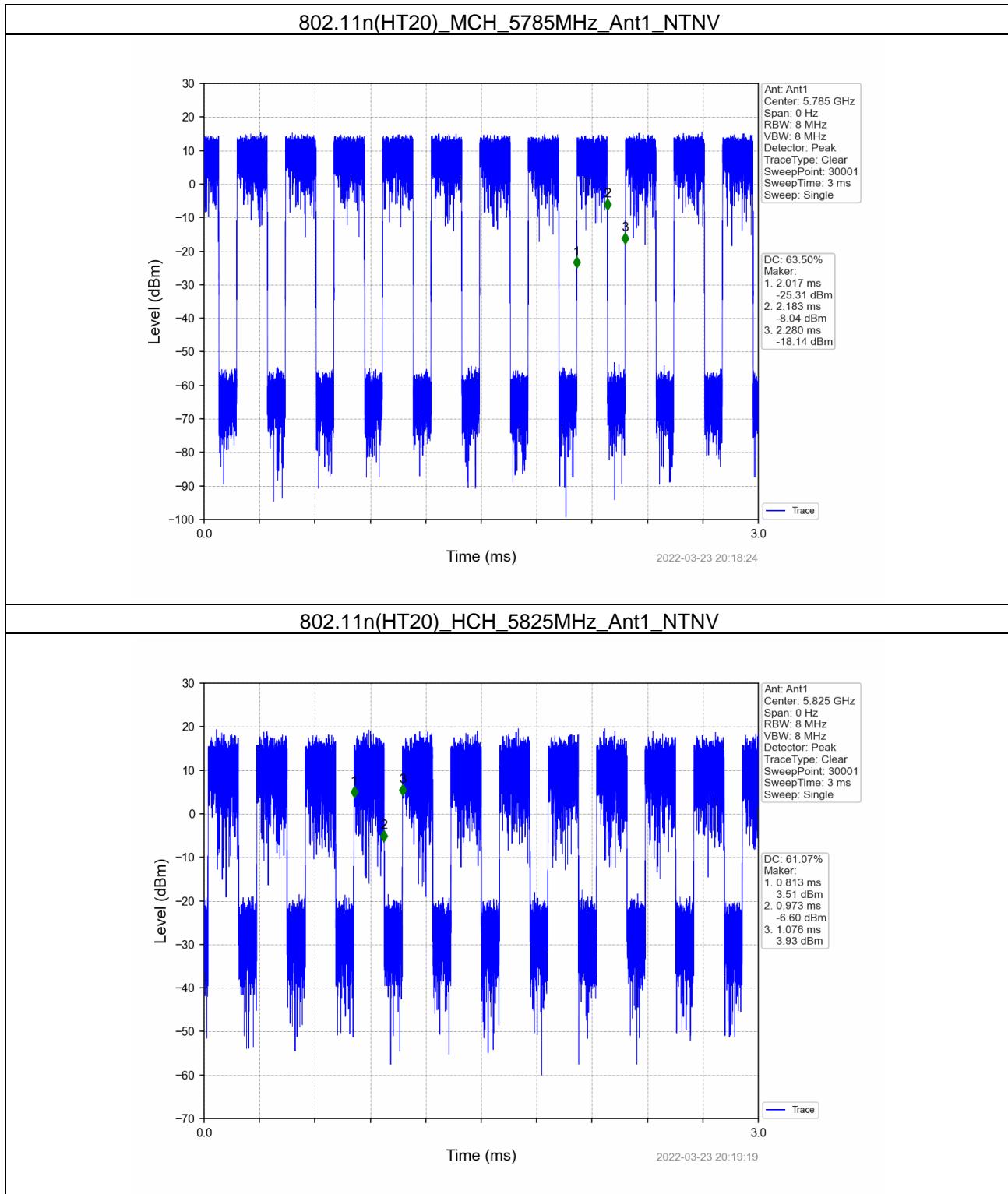
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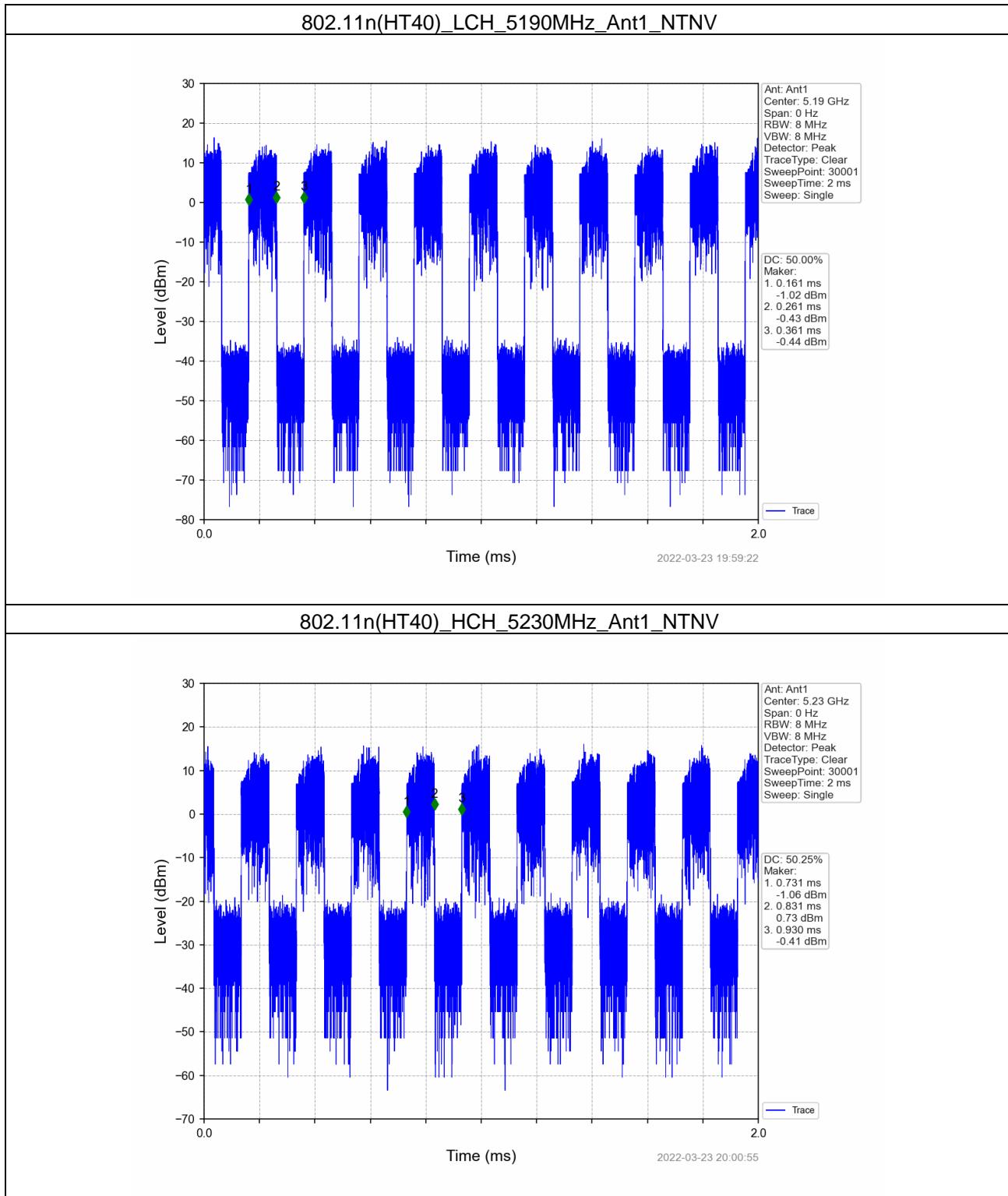


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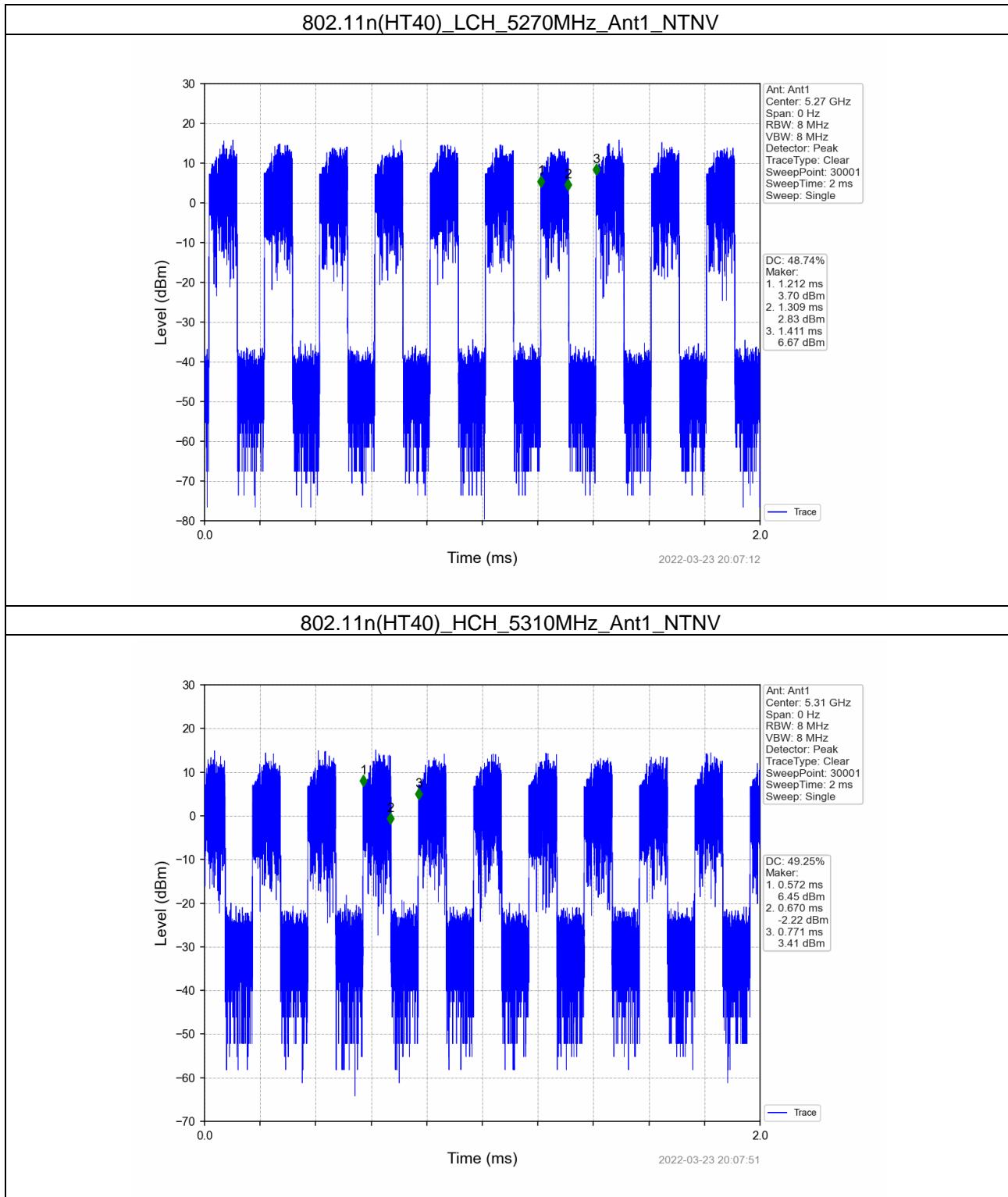


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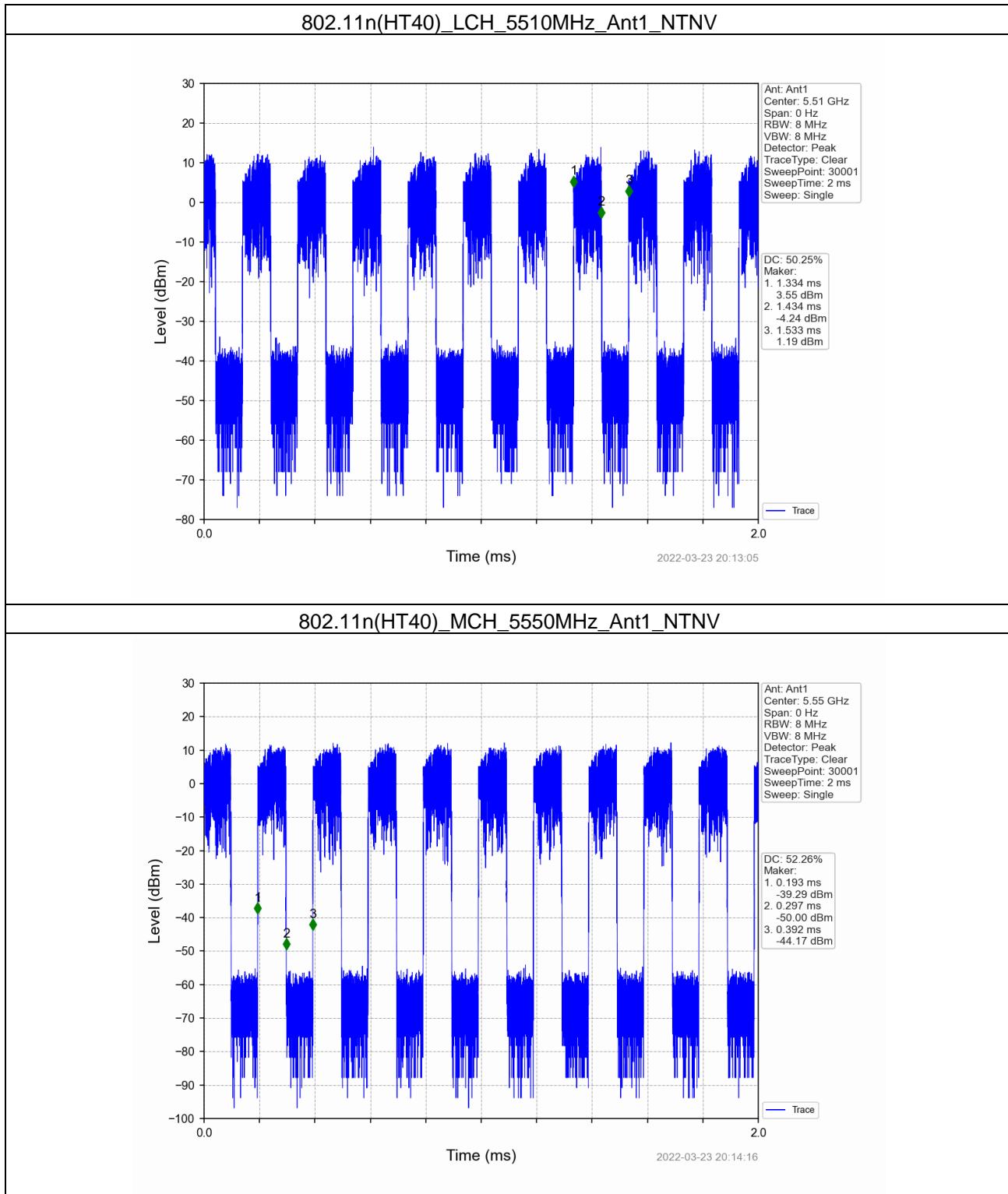


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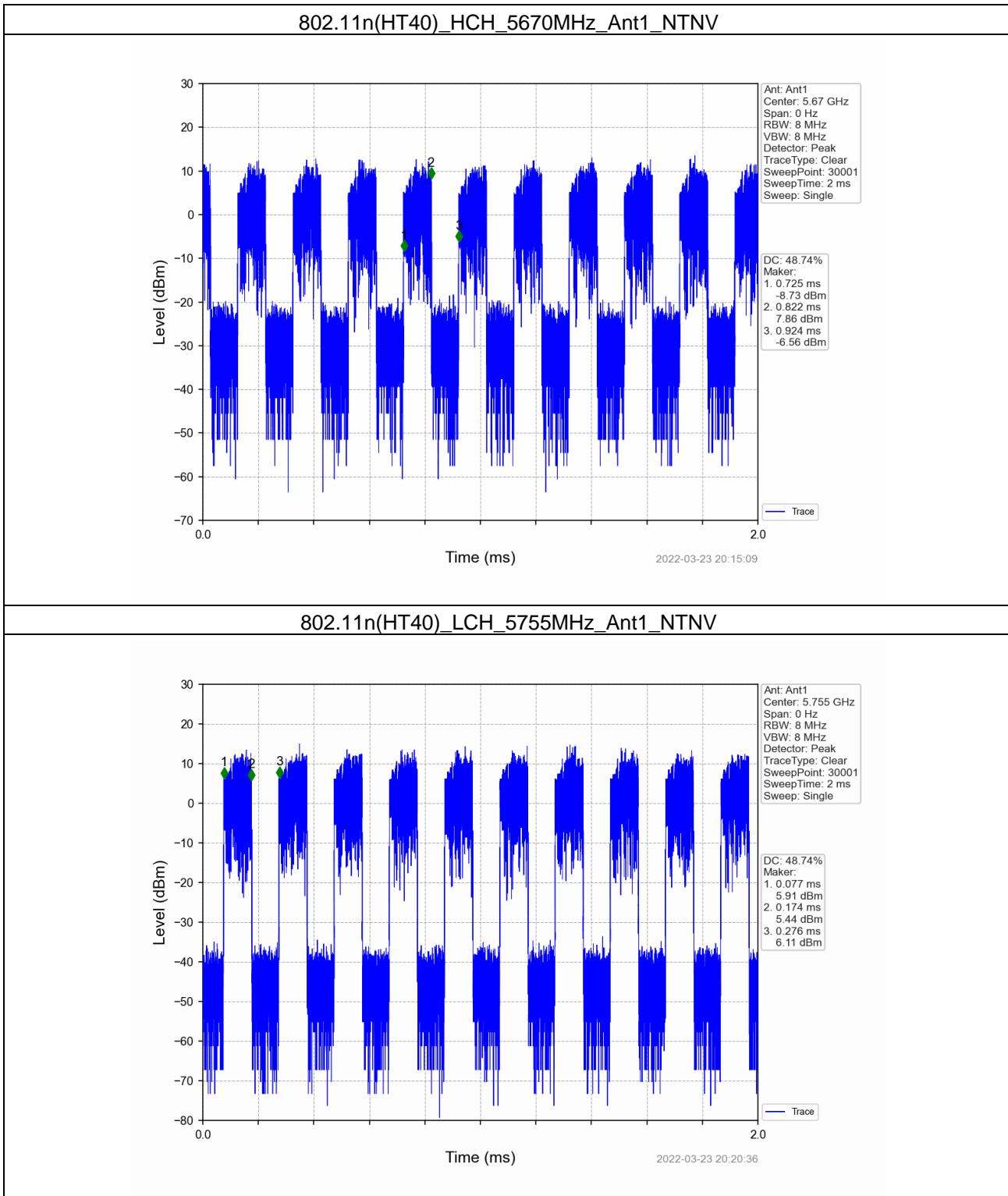
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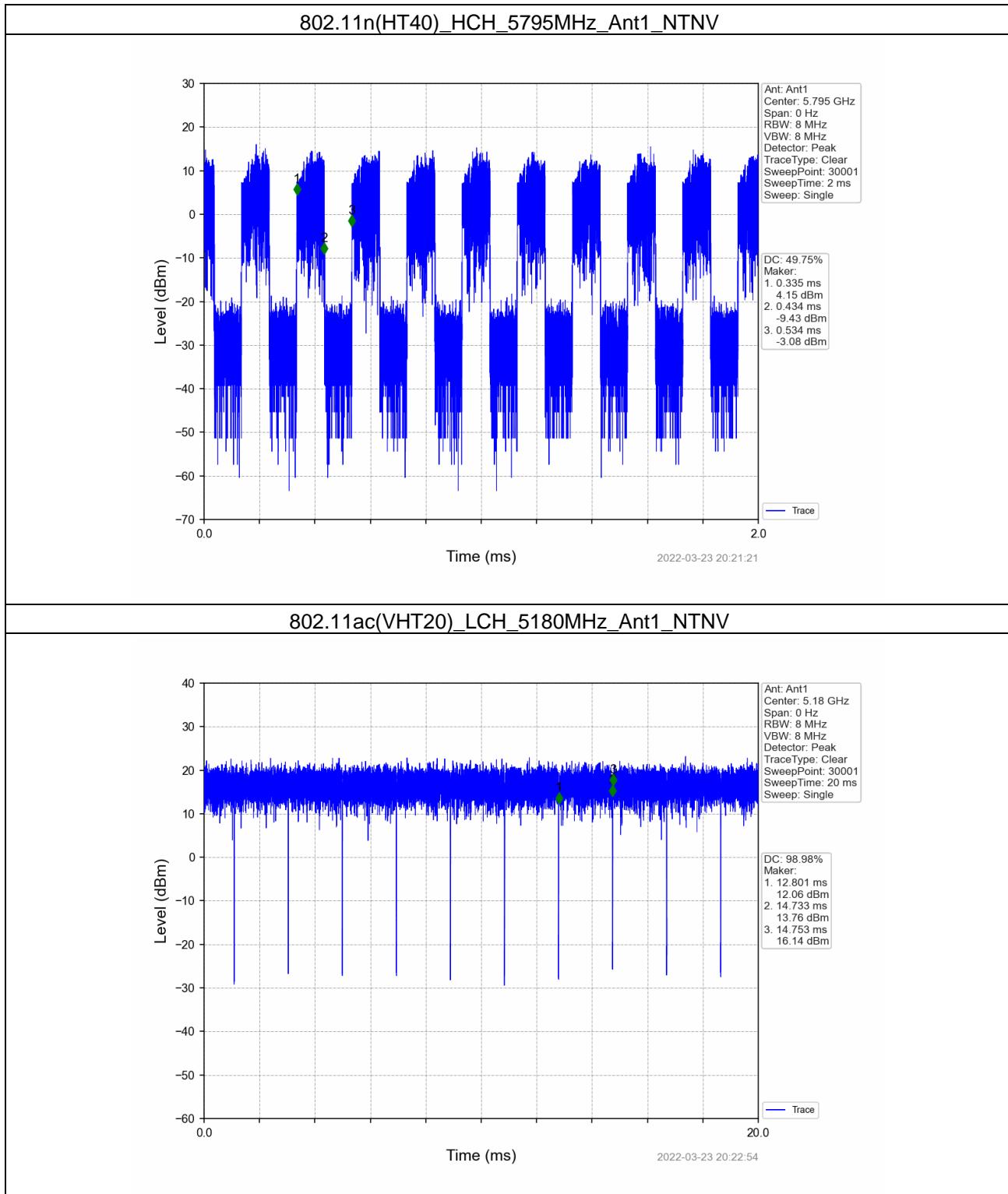
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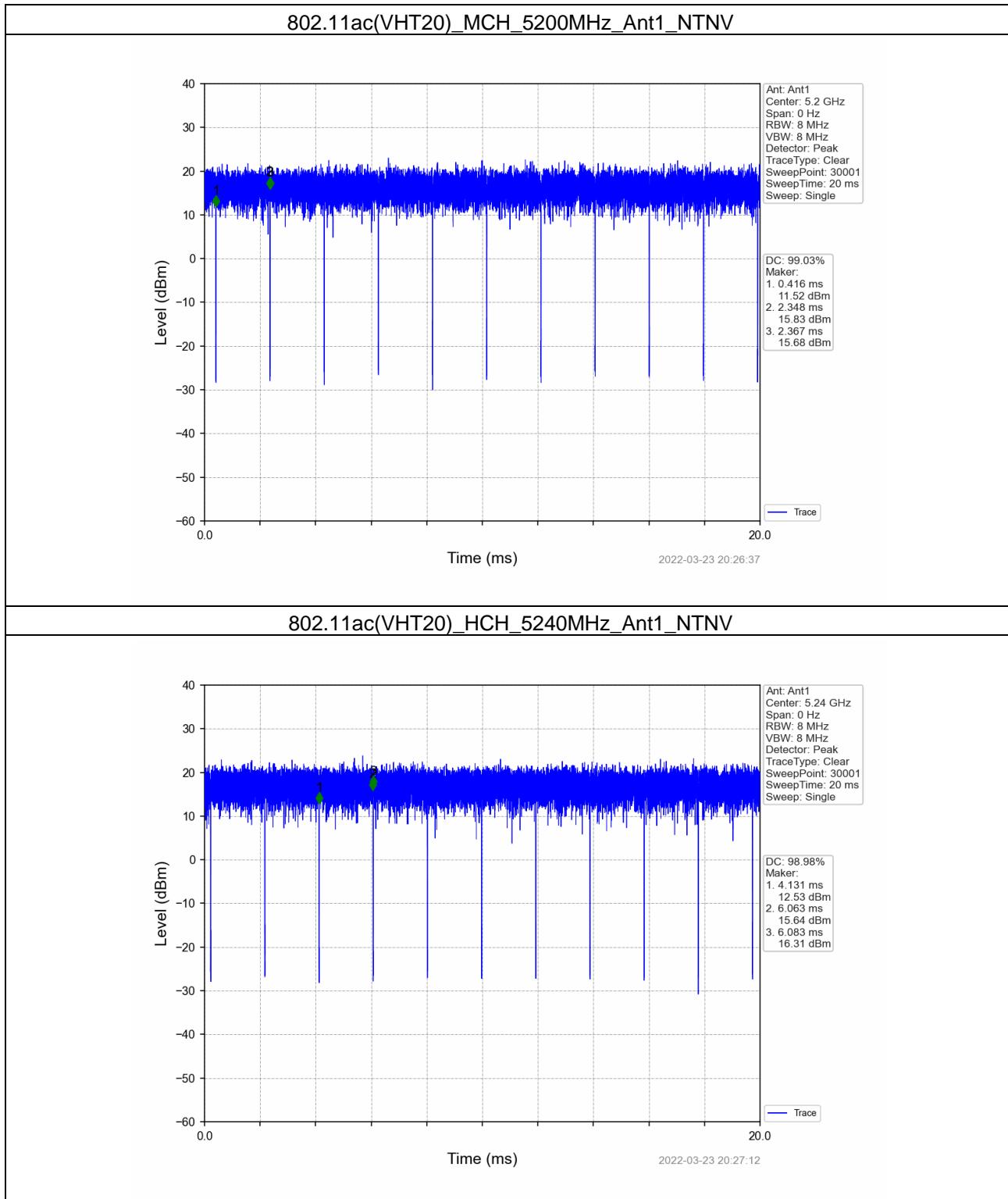
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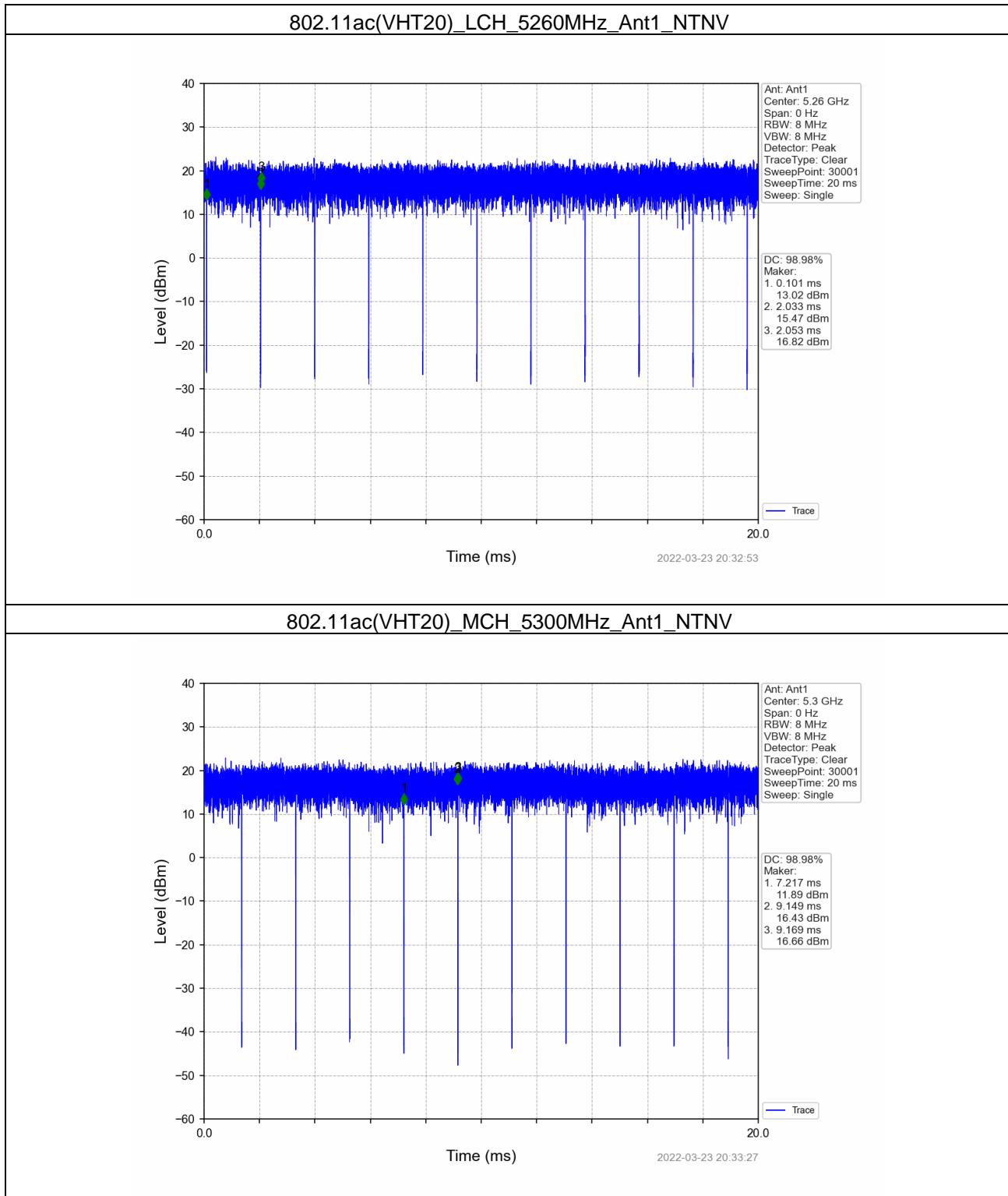
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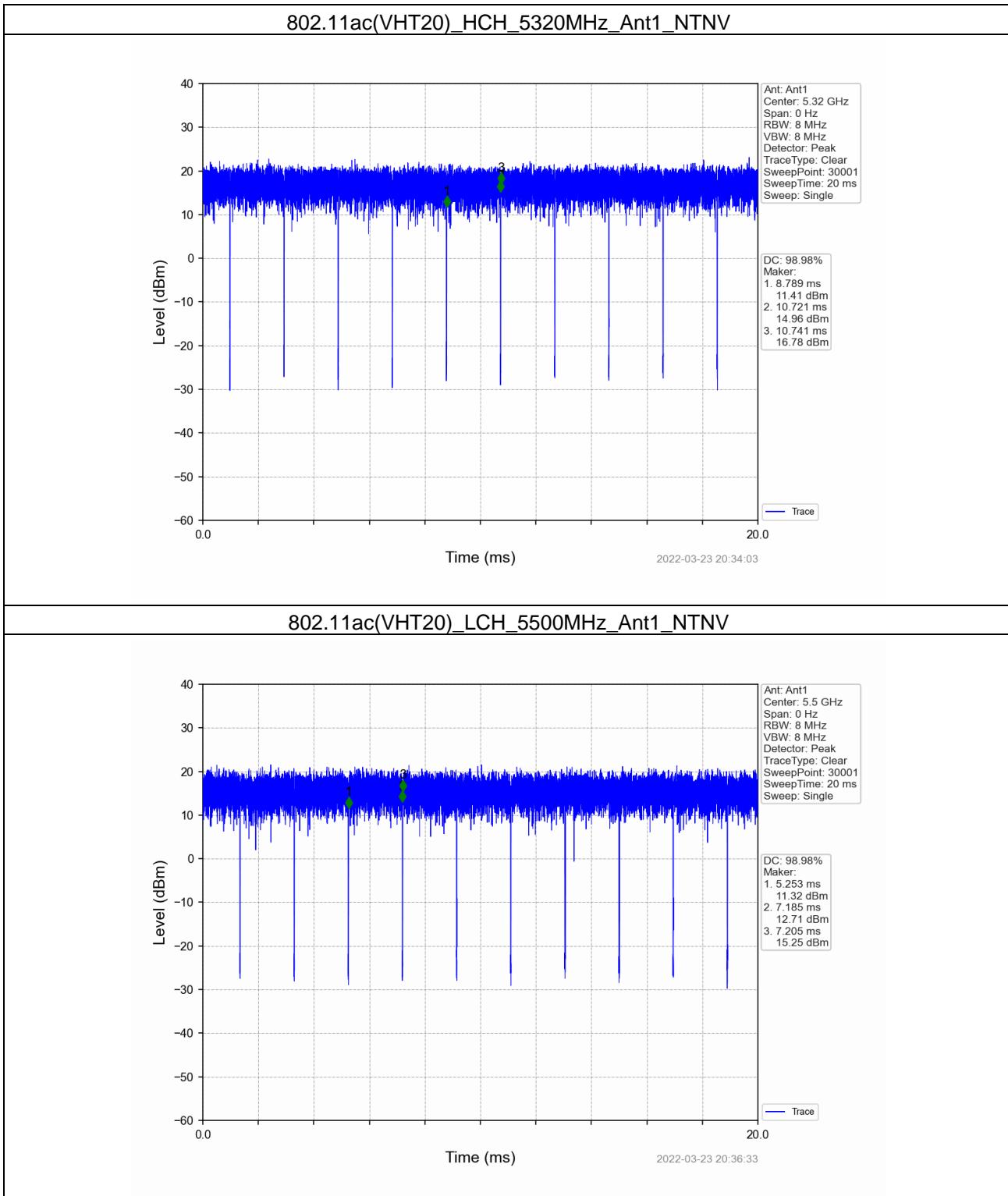
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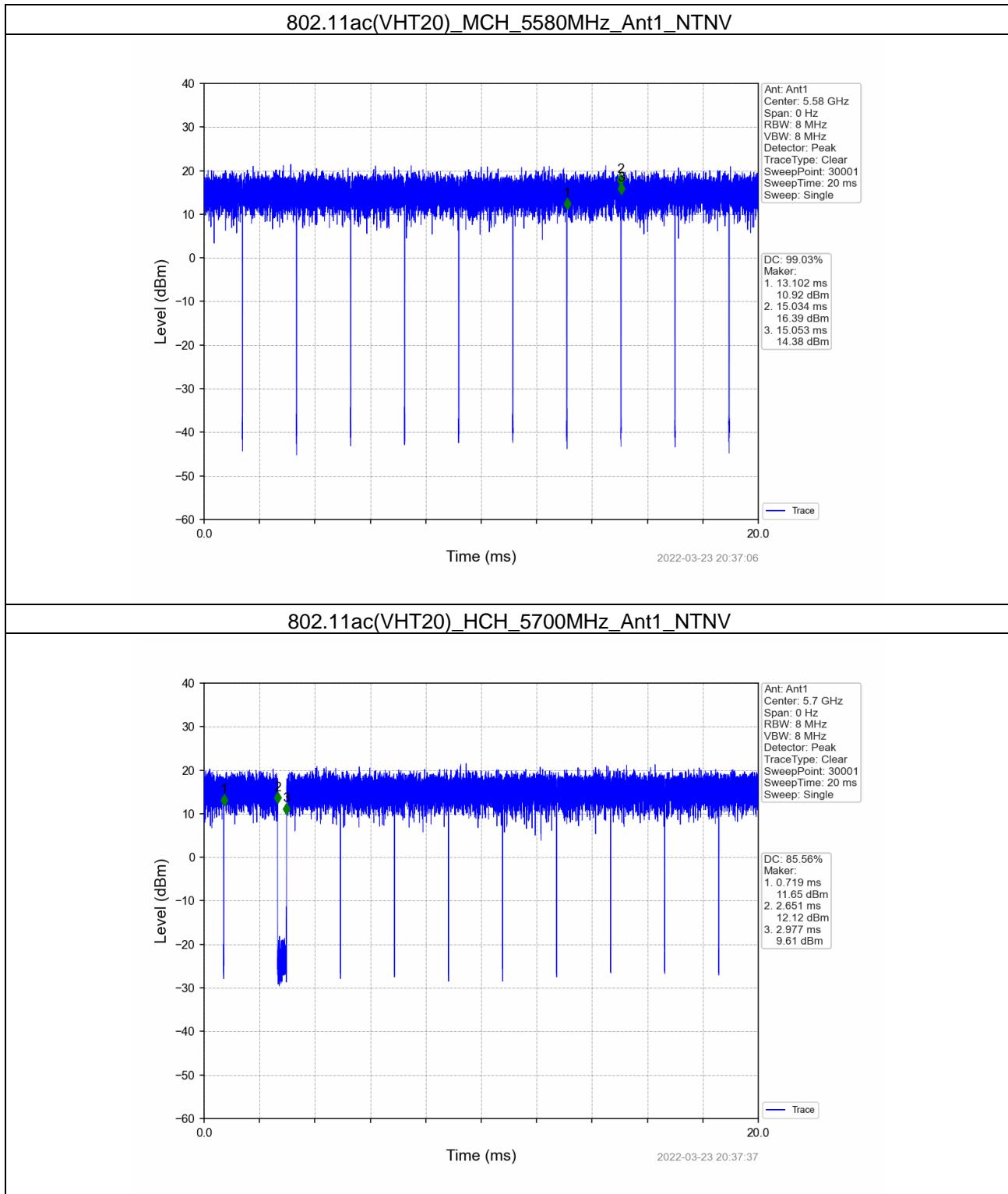
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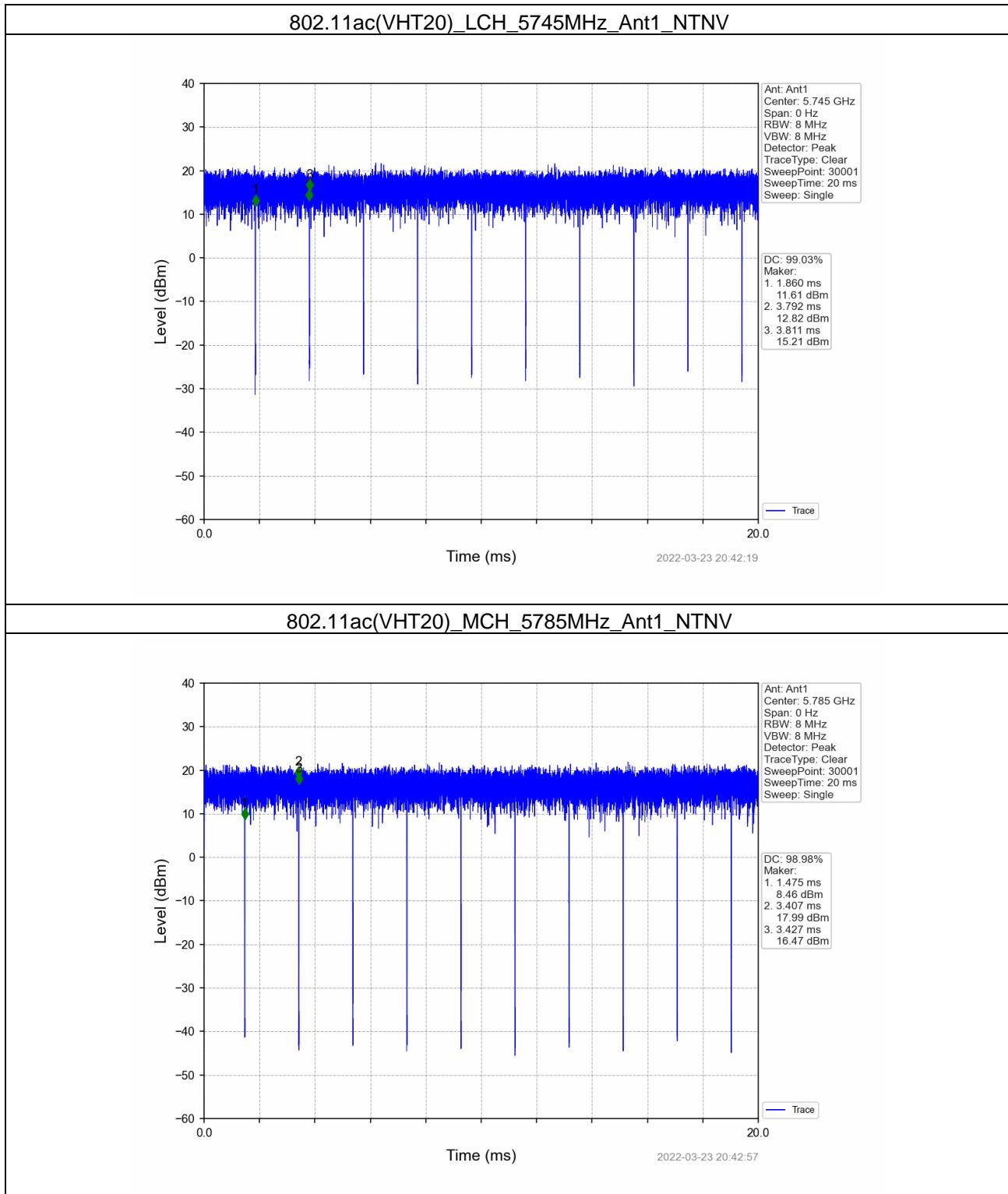
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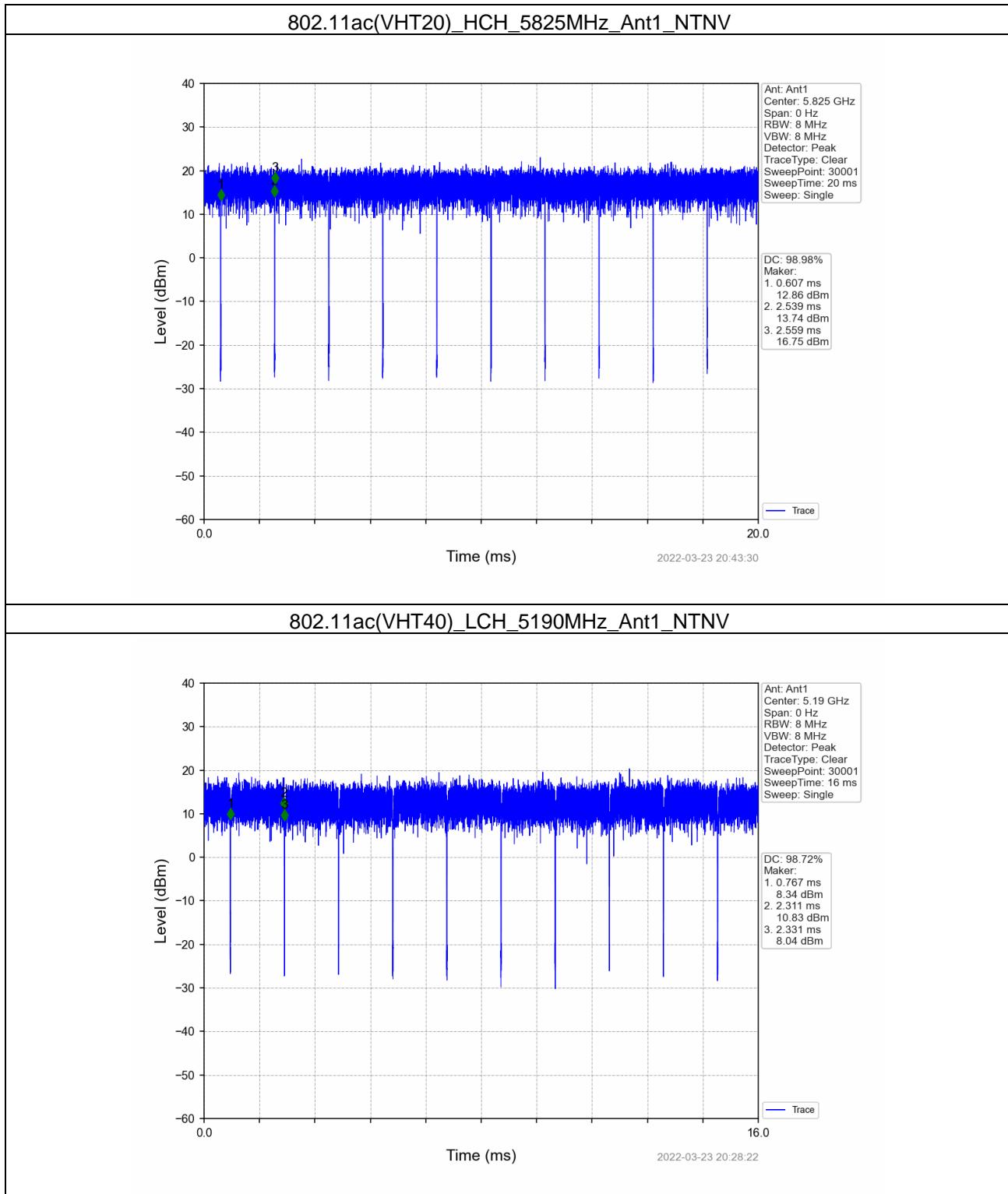
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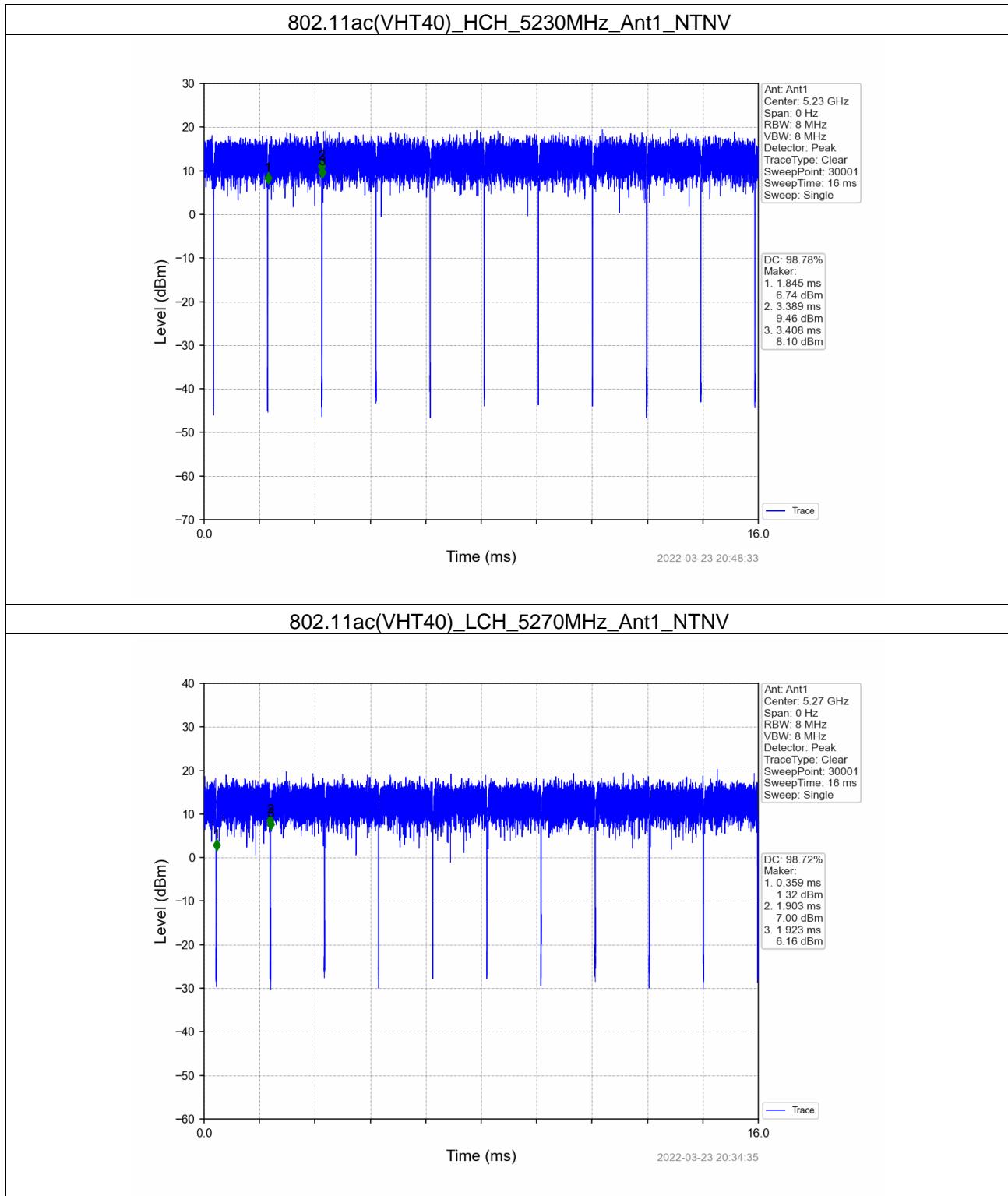
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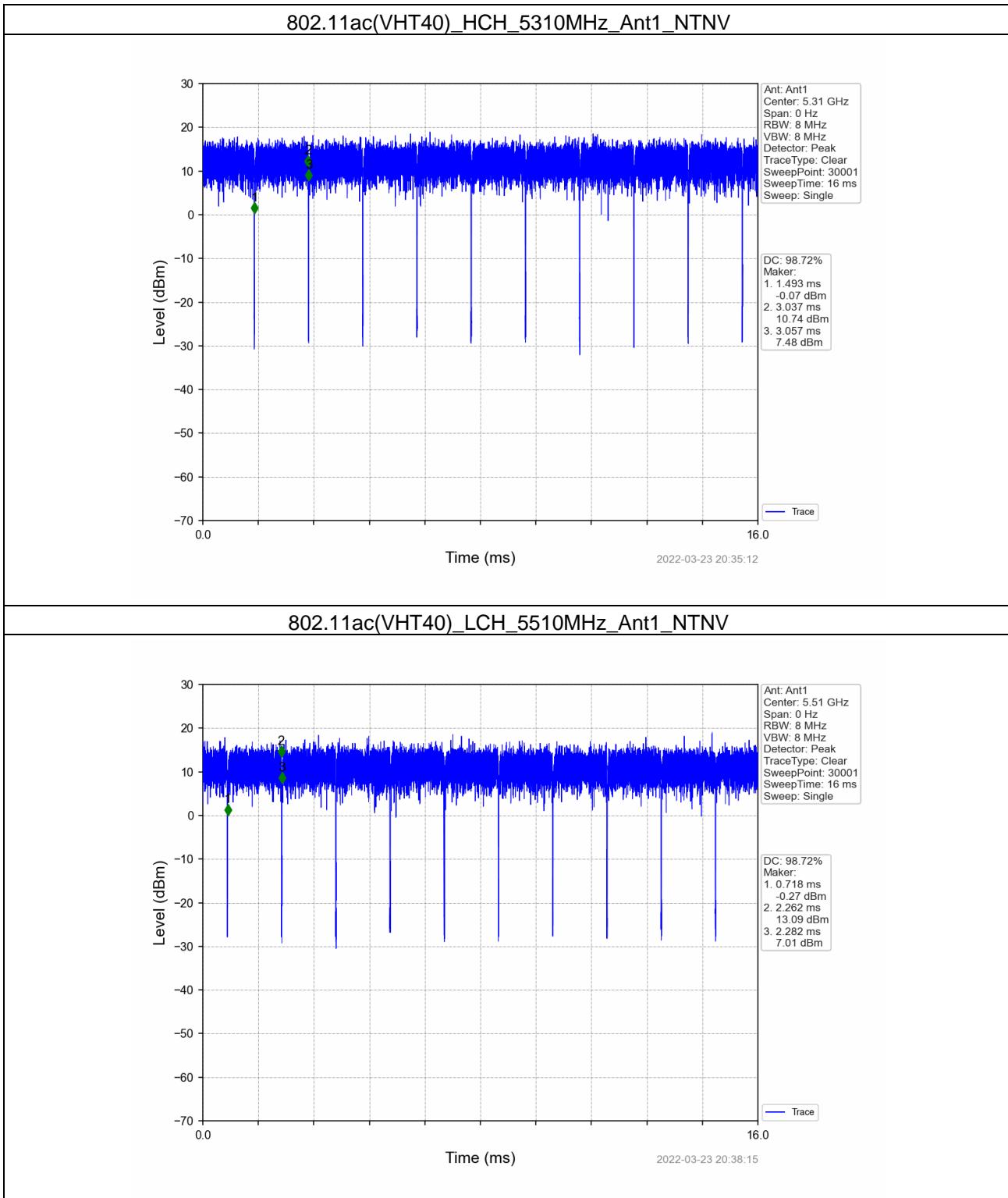
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