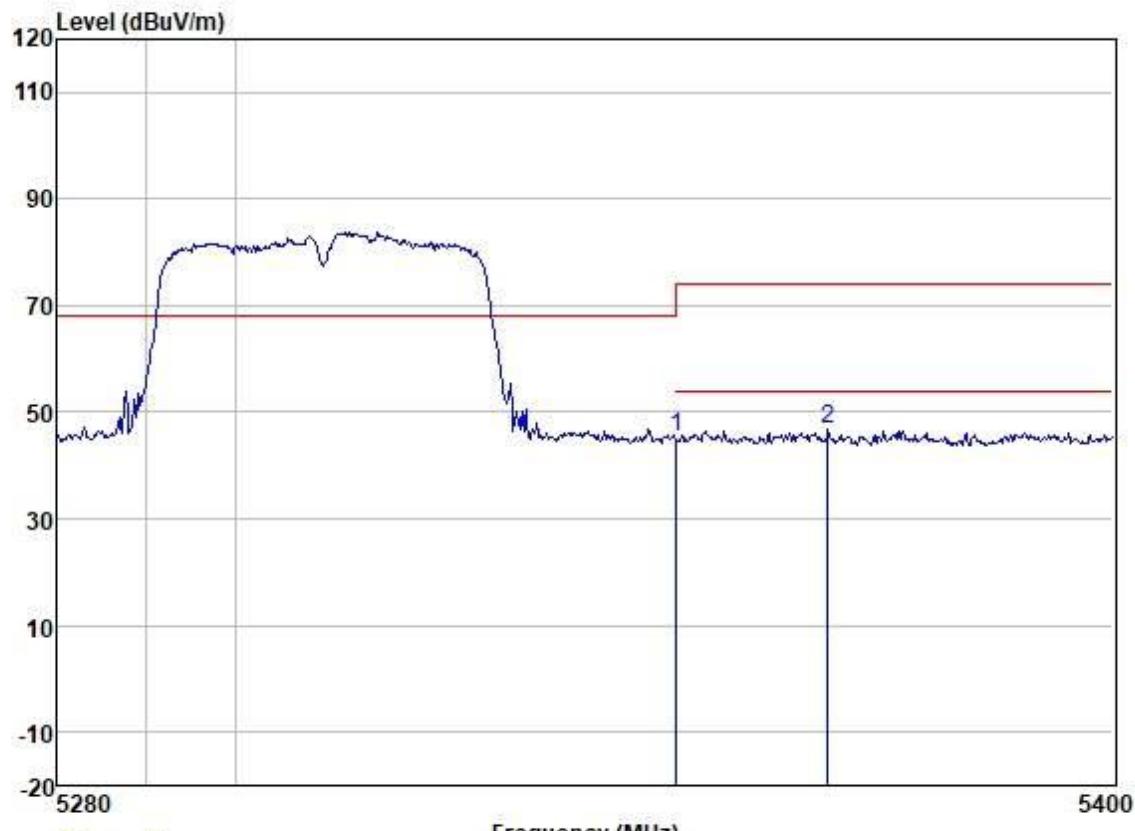


Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

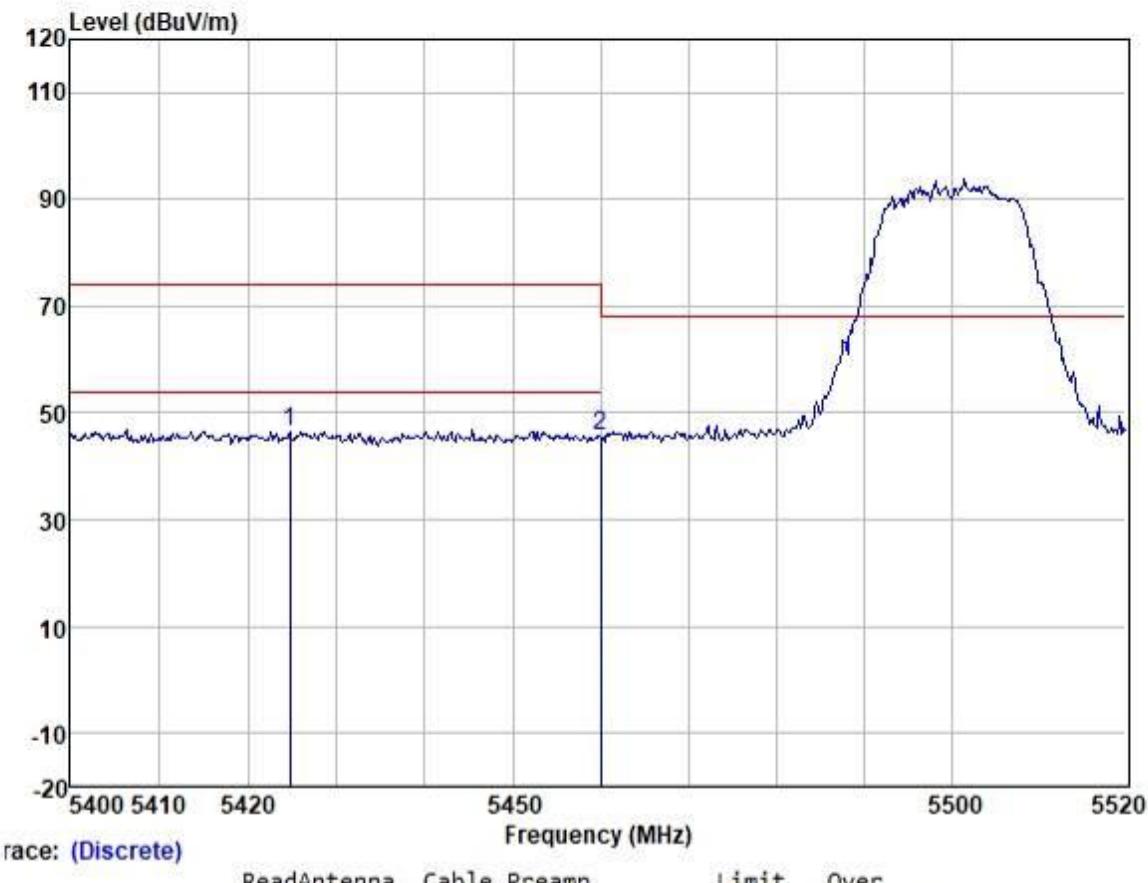
Race	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Pol/Phase	Remark
		Level	Factor	Loss	Factor						
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	5350.000	43.91	31.77	6.05	36.24	45.49	68.20	-22.71	HORIZONTAL	Peak	
2	5367.334	45.07	31.78	6.03	36.23	46.65	74.00	-27.35	HORIZONTAL	Peak	



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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	dBuV/m					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	dB
1 5424.743	44.70	31.79	6.13	36.21	46.41	74.00	-27.59	VERTICAL	Peak		
2 5460.000	43.80	31.79	6.26	36.21	45.64	68.20	-22.56	VERTICAL	Peak		

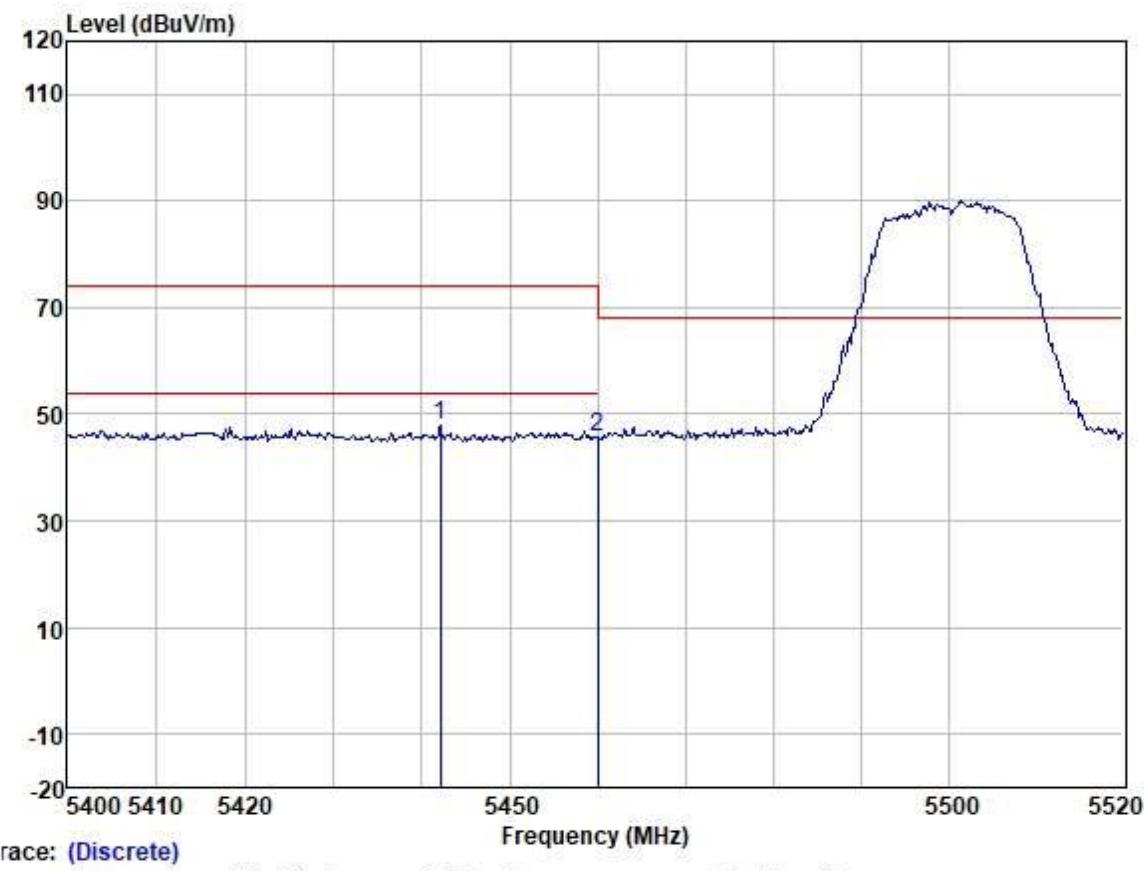
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Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

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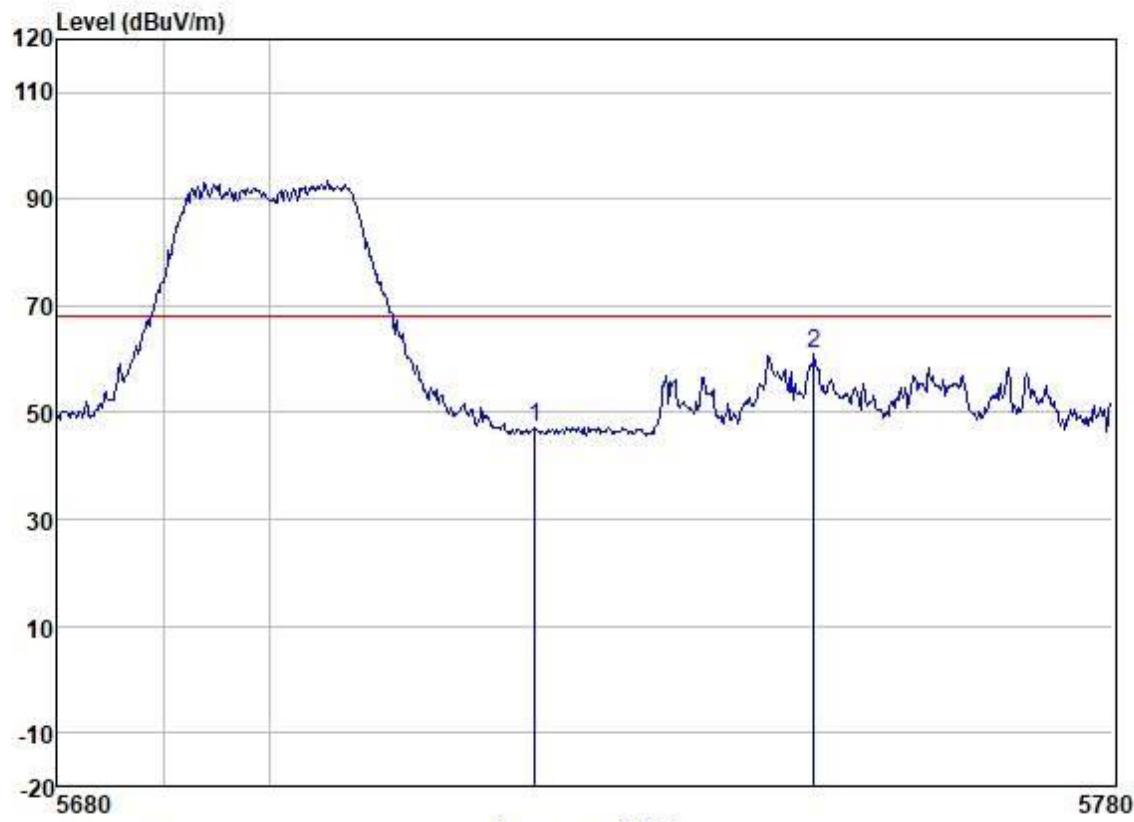
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	Line	dB		
1	5725.000	44.89	32.07	6.25	36.15	47.06	68.20	-21.14	VERTICAL	Peak	
2	5751.523	58.67	32.10	6.20	36.14	60.83	68.20	-7.37	VERTICAL	Peak	

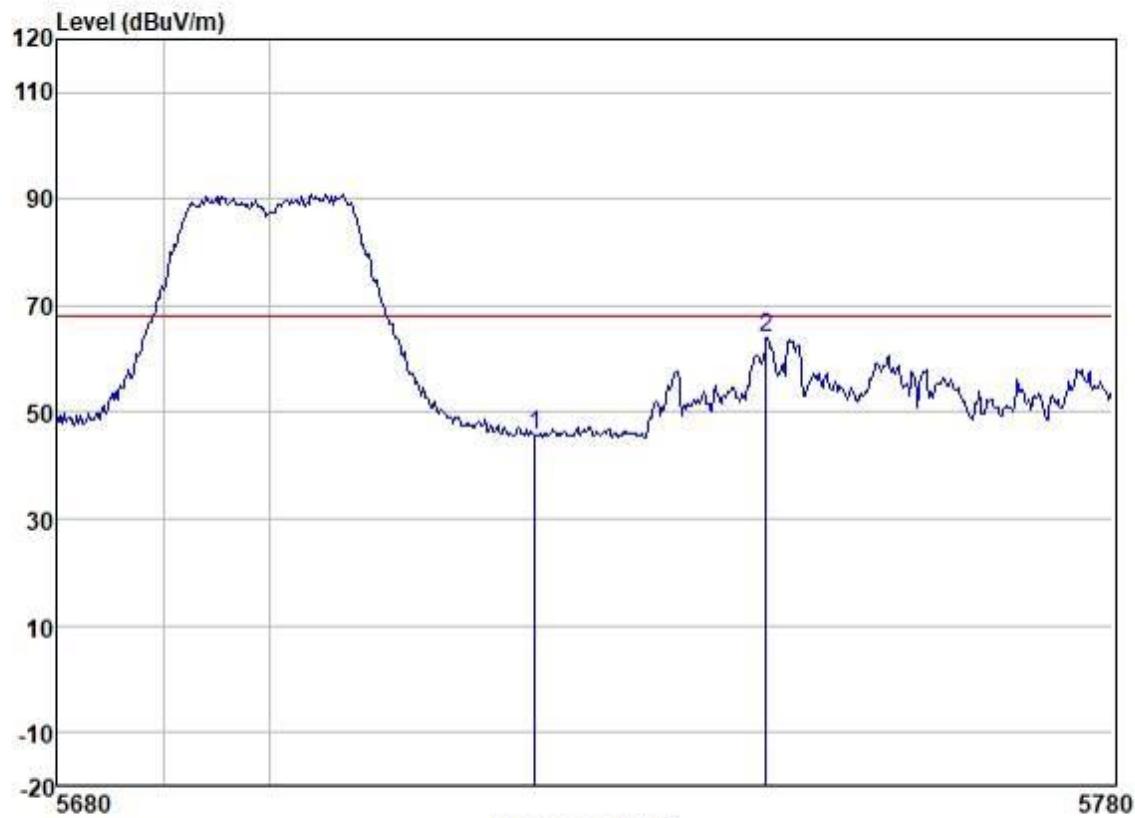
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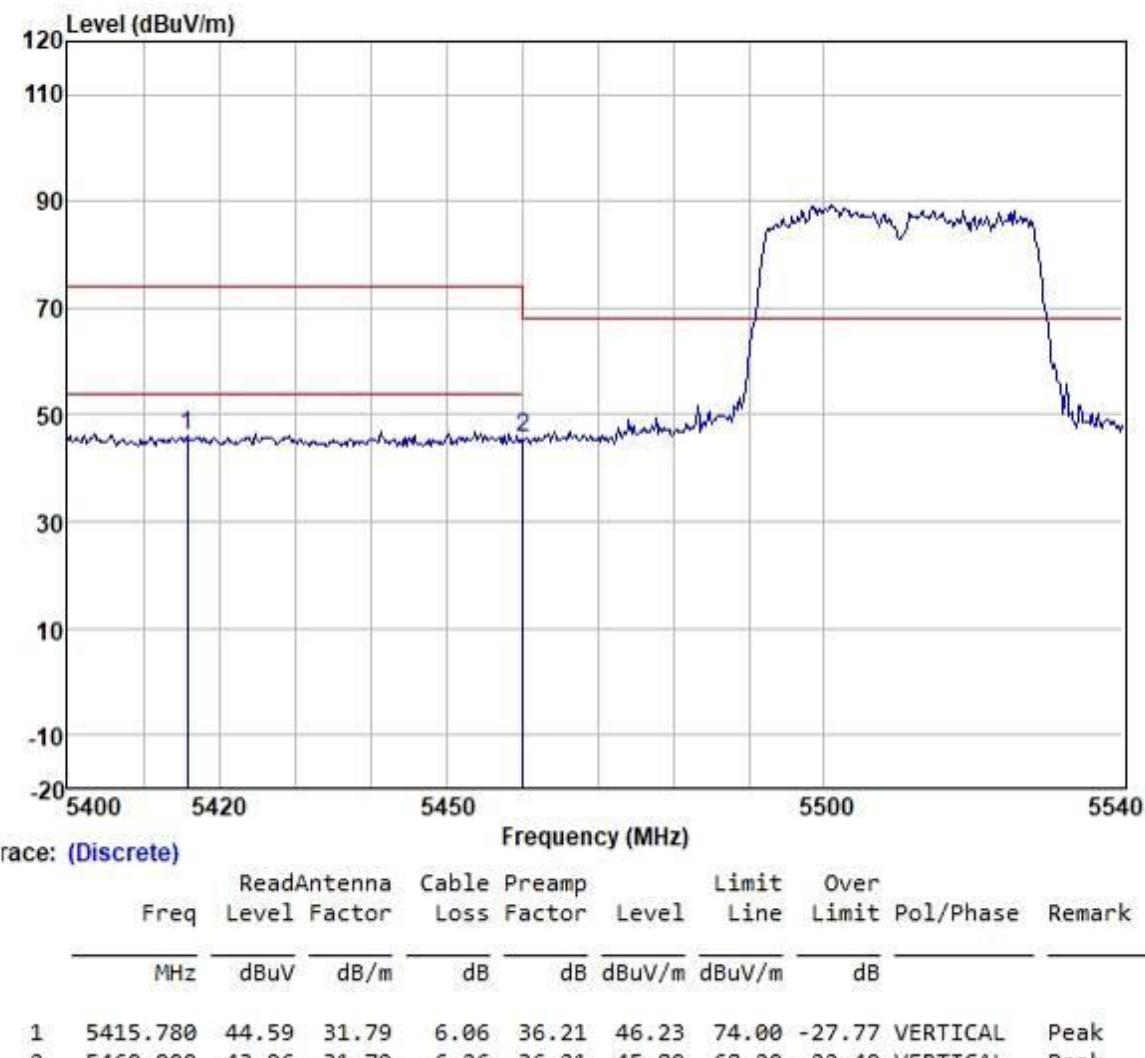
Test Mode: 05; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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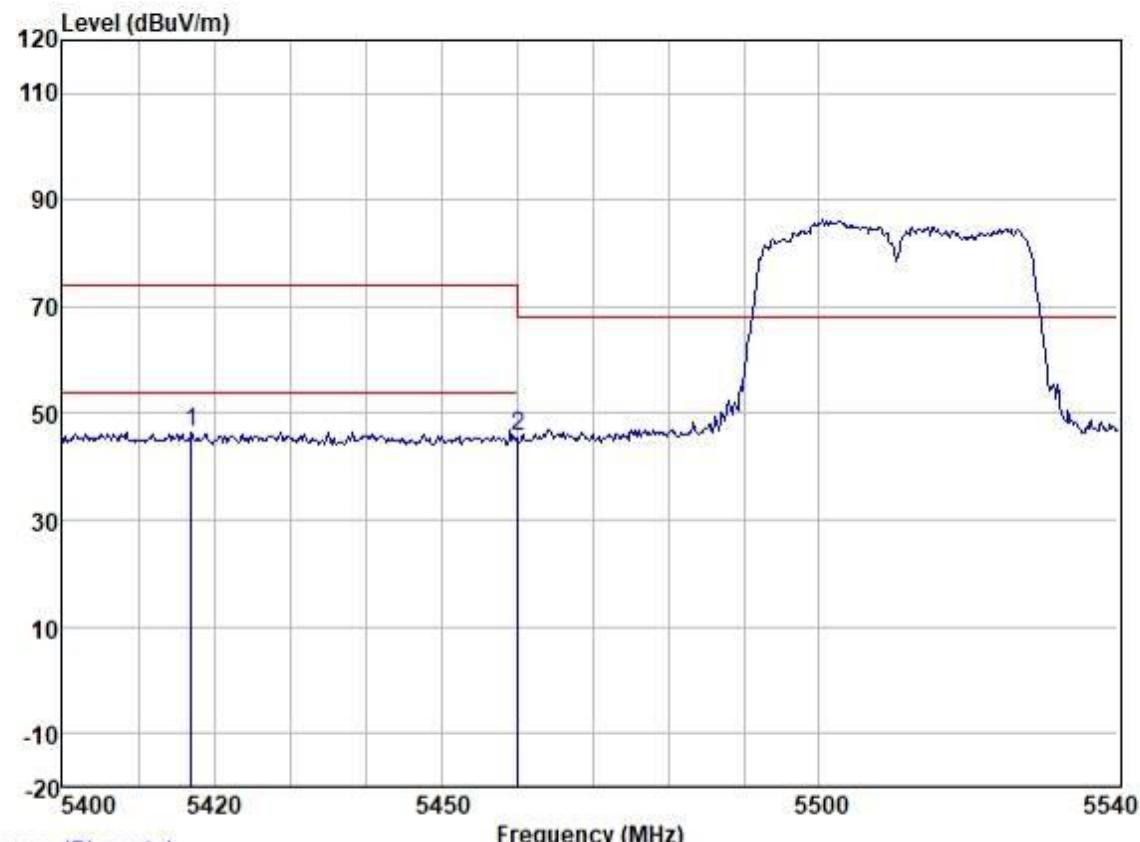
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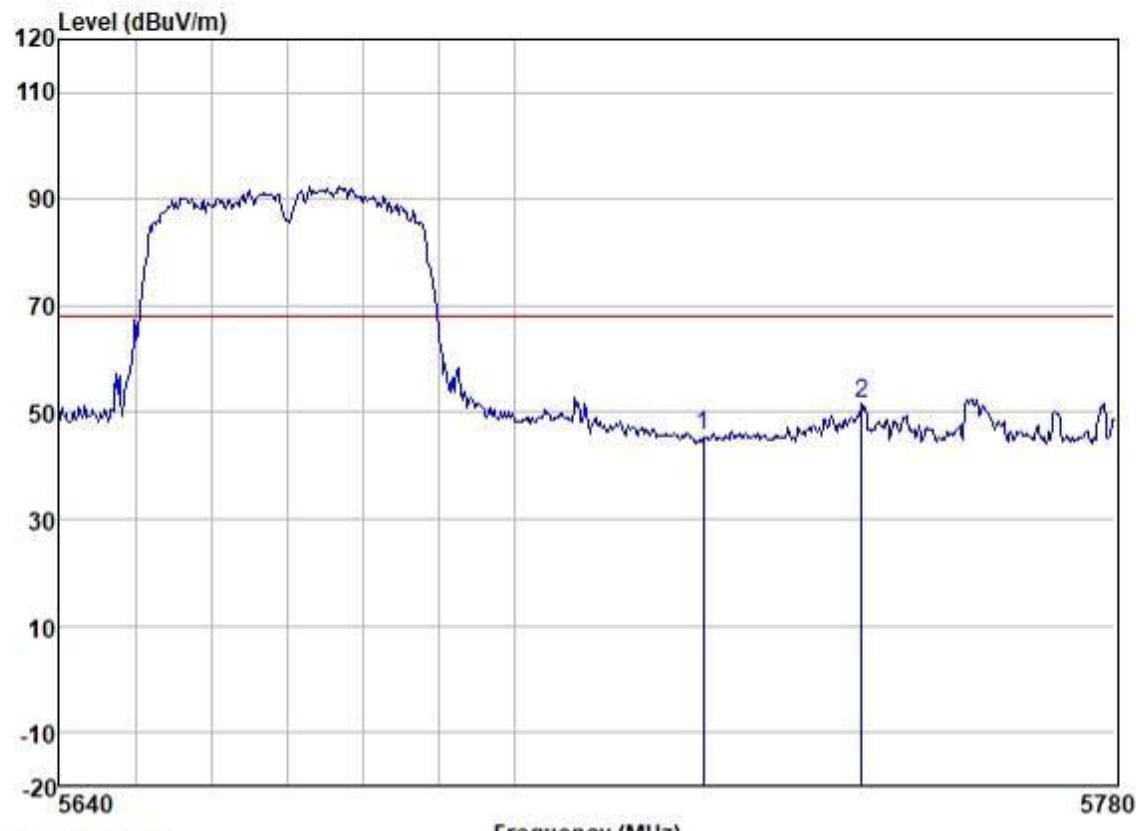
Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



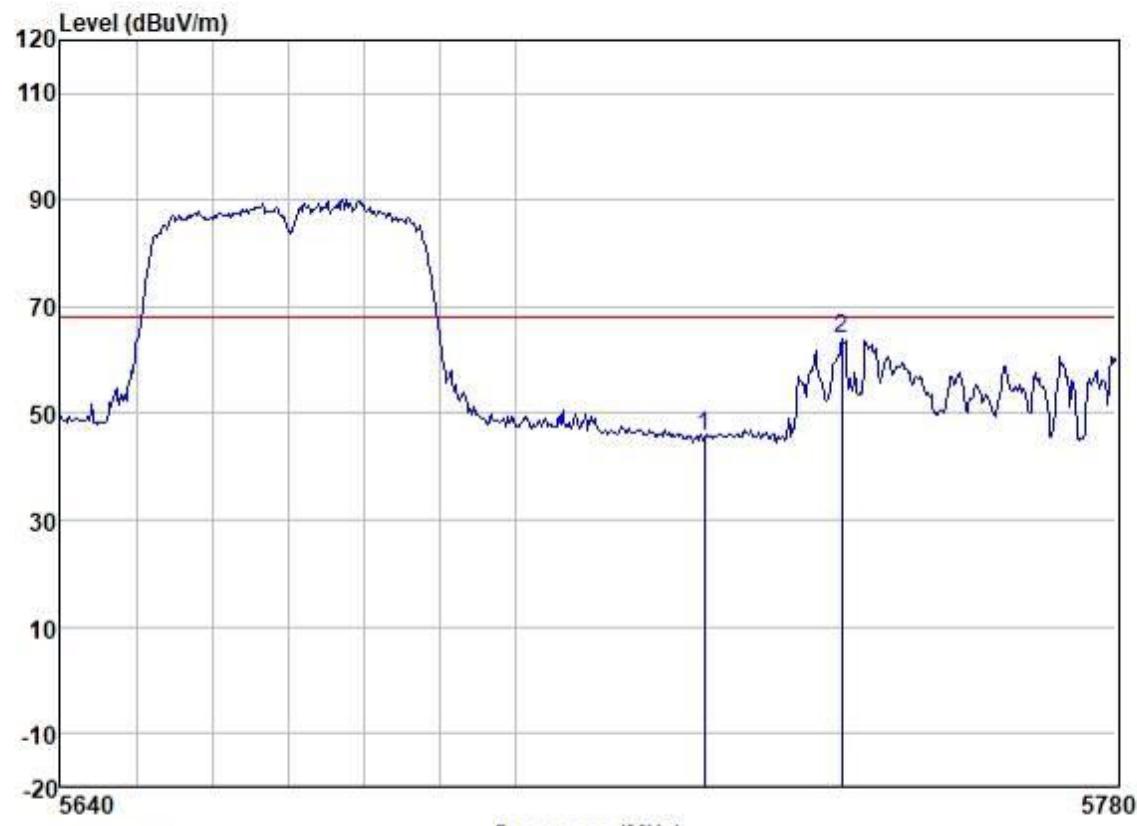
Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Over	Pol/Phase	Remark
	MHz	dBuV	Level Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB		
1	5725.000	43.51	32.07	6.25	36.15	45.68	68.20	-22.52	VERTICAL	Peak	
2	5746.086	49.48	32.10	6.20	36.14	51.64	68.20	-16.56	VERTICAL	Peak	

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Test Mode: 05; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

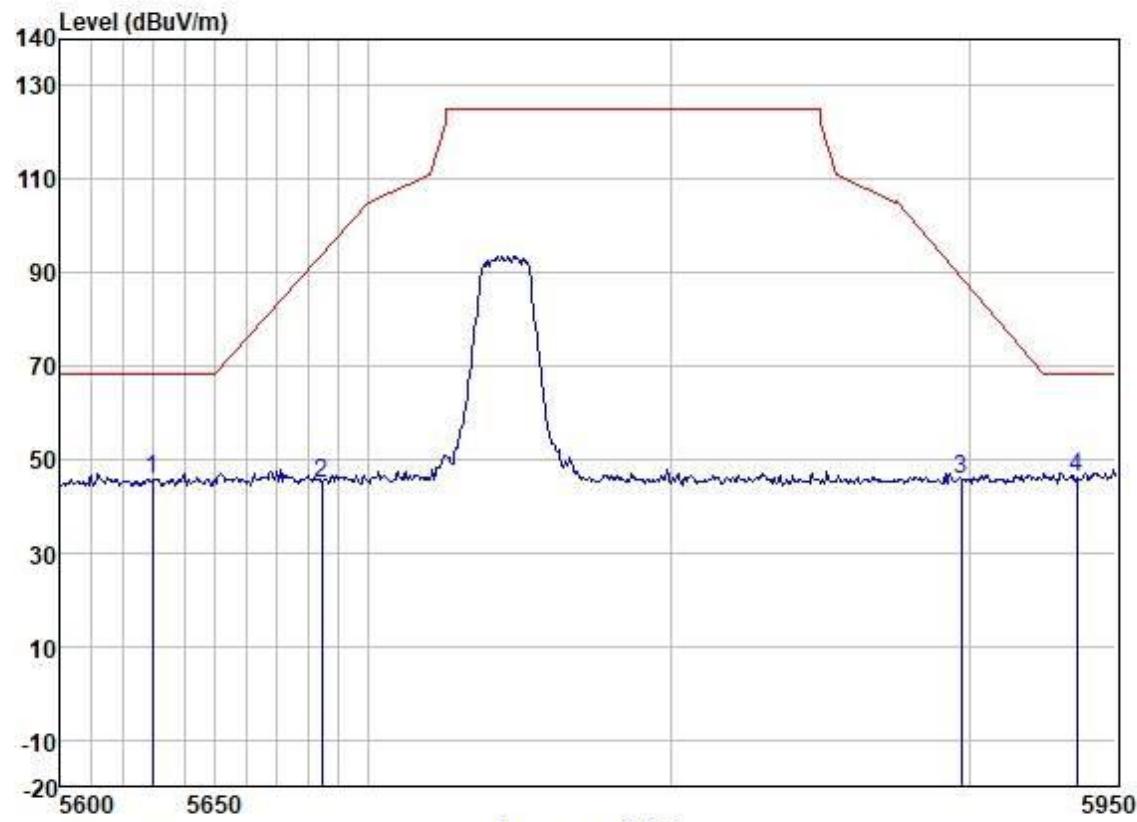
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Over	Remark
	MHz	Level	Factor	Loss					
	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m		
1	5725.000	43.43	32.07	6.25	36.15	45.60	68.20	-22.60	HORIZONTAL Peak
2	5743.269	61.89	32.10	6.20	36.14	64.05	68.20	-4.15	HORIZONTAL Peak



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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

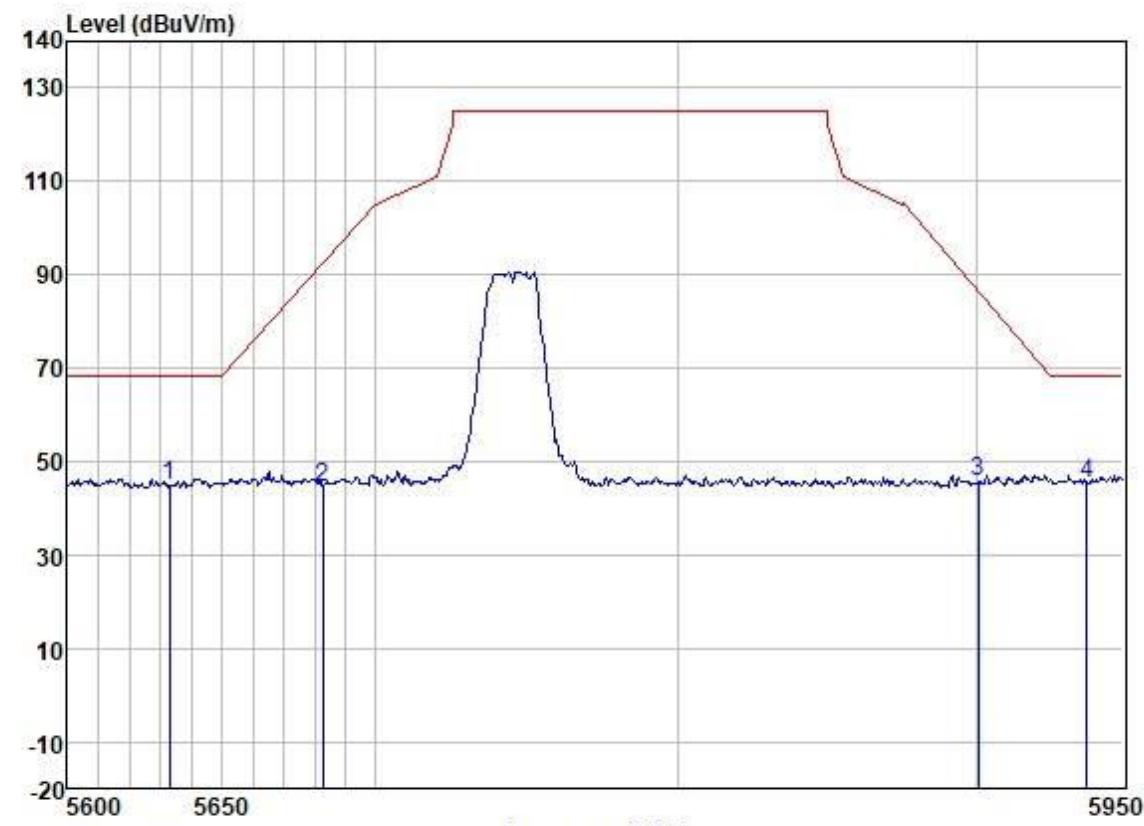
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor						
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1 5629.614	43.43	31.93	6.33	36.17	45.52	68.20	-22.68	VERTICAL	Peak	
2 5684.832	42.76	31.99	6.38	36.16	44.97	94.01	-49.04	VERTICAL	Peak	
3 5897.210	43.83	32.31	5.90	36.12	45.92	88.76	-42.84	VERTICAL	Peak	
4 5936.668	43.82	32.34	6.00	36.11	46.05	68.20	-22.15	VERTICAL	Peak	

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



race: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 5633.028	42.86	31.93	6.33	36.17	44.95	68.20	-23.25	HORIZONTAL	Peak
2 5682.764	42.38	31.99	6.38	36.16	44.59	92.48	-47.89	HORIZONTAL	Peak
3 5900.787	43.53	32.31	5.90	36.12	45.62	86.11	-40.49	HORIZONTAL	Peak
4 5937.748	43.20	32.34	6.00	36.11	45.43	68.20	-22.77	HORIZONTAL	Peak

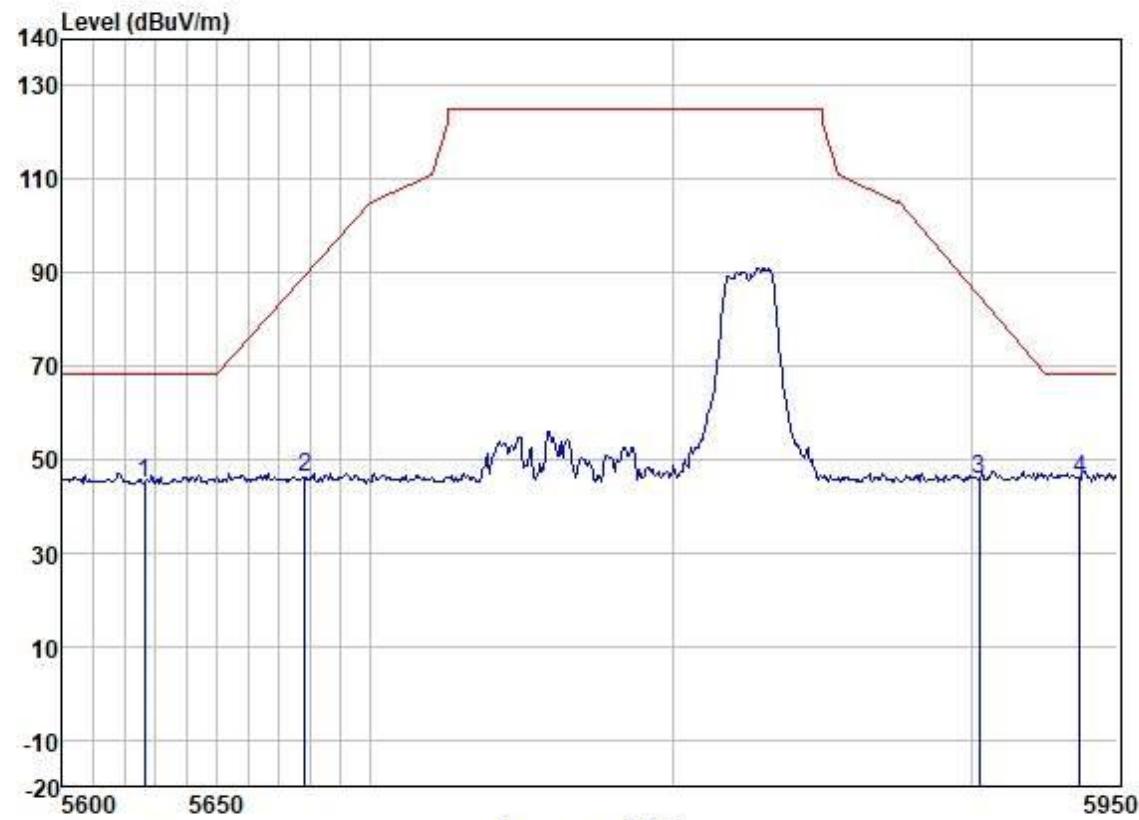
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Rate: (Discrete)

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m		
1	5626.543	42.62	31.93	6.33	36.17	44.71	68.20	-23.49	VERTICAL Peak
2	5678.631	44.05	31.99	6.38	36.16	46.26	89.43	-43.17	VERTICAL Peak
3	5902.575	43.71	32.31	5.90	36.12	45.80	84.79	-38.99	VERTICAL Peak
4	5937.028	43.67	32.34	6.00	36.11	45.90	68.20	-22.30	VERTICAL Peak

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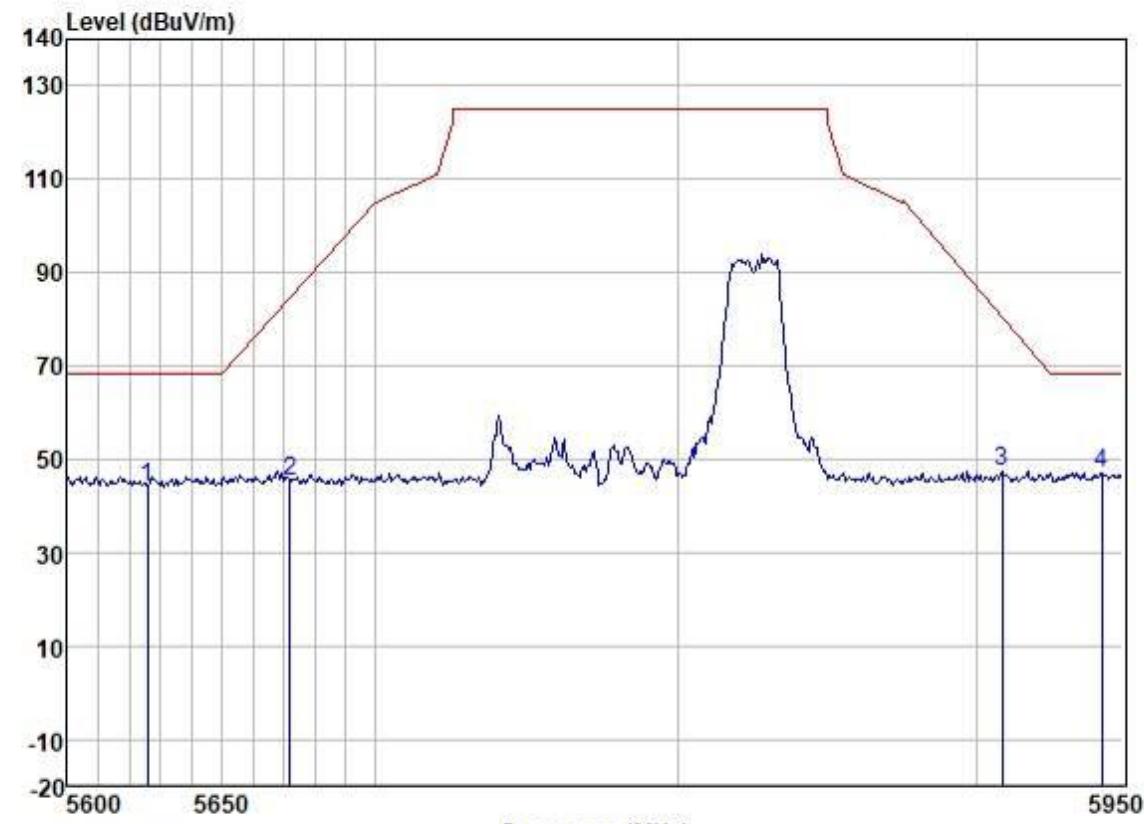
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m	dB	
1	5625.861	42.12	31.93	6.33	36.17	44.21	68.20	-23.99	HORIZONTAL	Peak
2	5672.094	42.99	31.97	6.37	36.16	45.17	84.59	-39.42	HORIZONTAL	Peak
3	5908.662	45.15	32.33	5.95	36.12	47.31	80.28	-32.97	HORIZONTAL	Peak
4	5942.790	44.74	32.36	6.05	36.11	47.04	68.20	-21.16	HORIZONTAL	Peak

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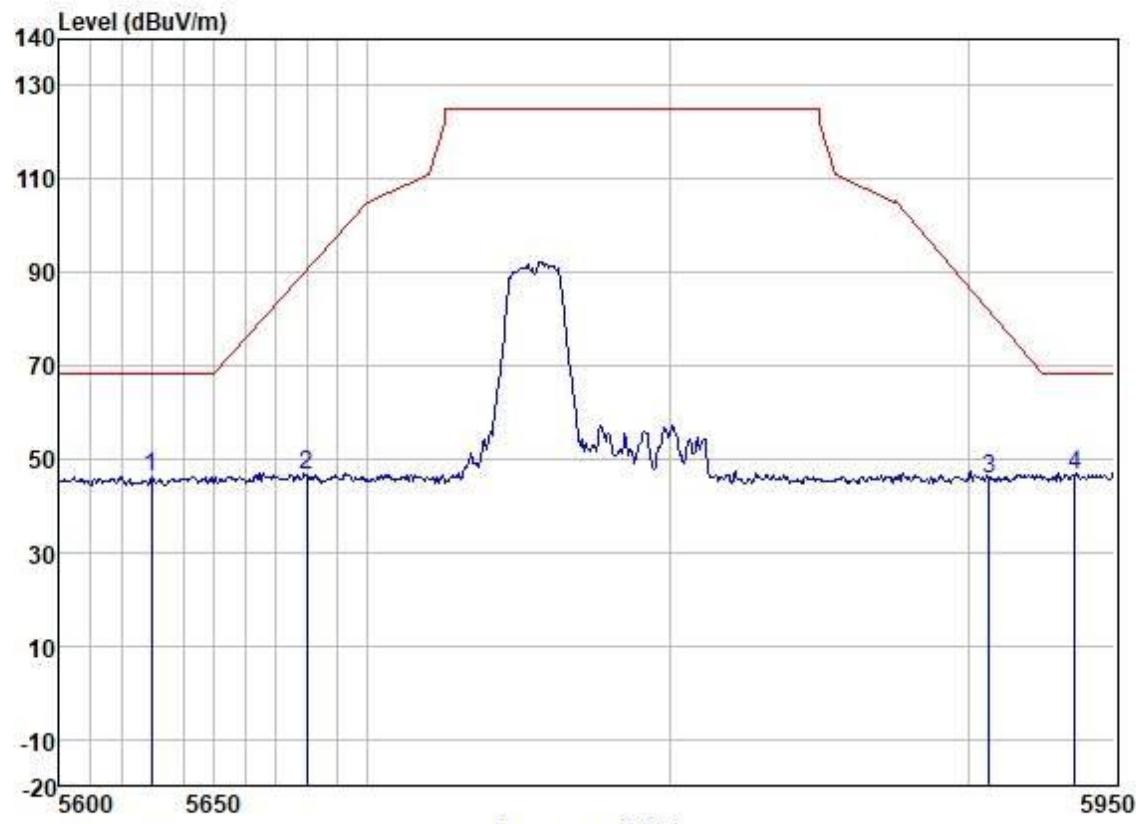
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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



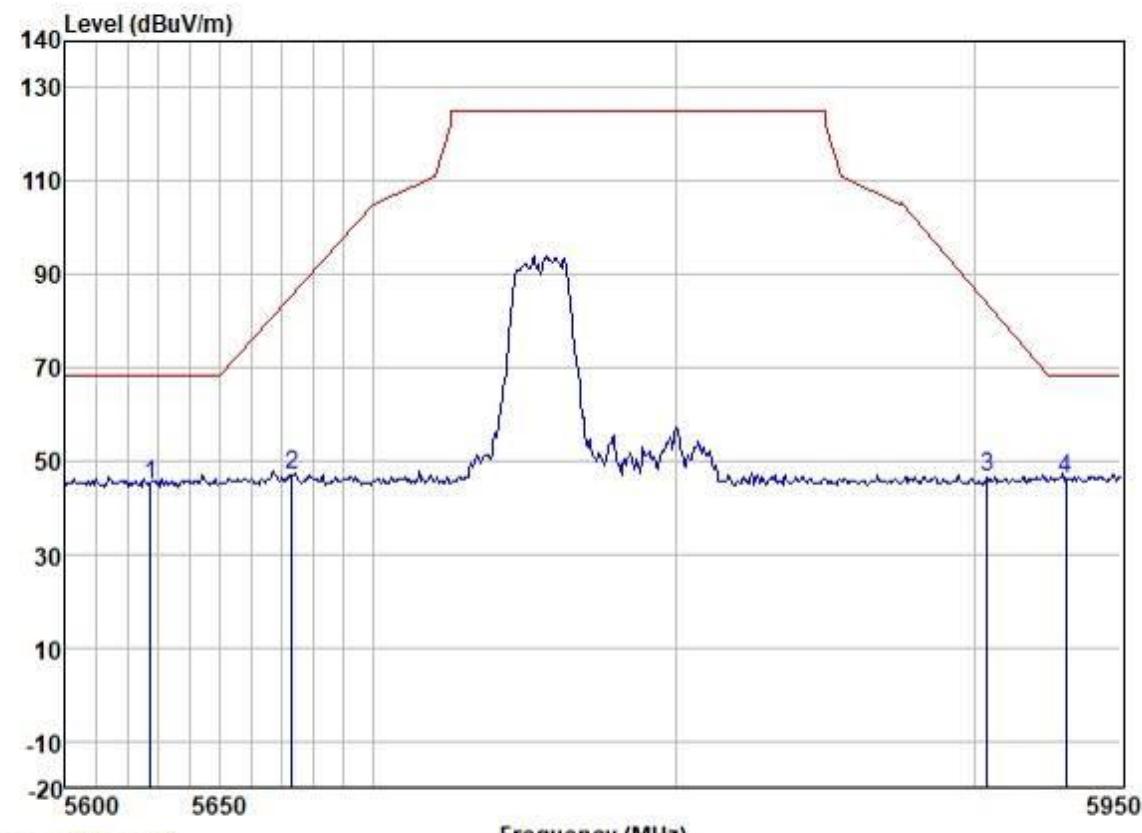
	Freq	ReadAntenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level Factor	Loss Factor	Level	Line	Limit		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	5629.614	43.90	31.93	6.33	36.17	45.99	68.20	-22.21
2	5680.009	44.19	31.99	6.38	36.16	46.40	90.45	-44.05
3	5907.229	43.35	32.33	5.95	36.12	45.51	81.34	-35.83
4	5936.309	44.38	32.34	6.00	36.11	46.61	68.20	-21.59

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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

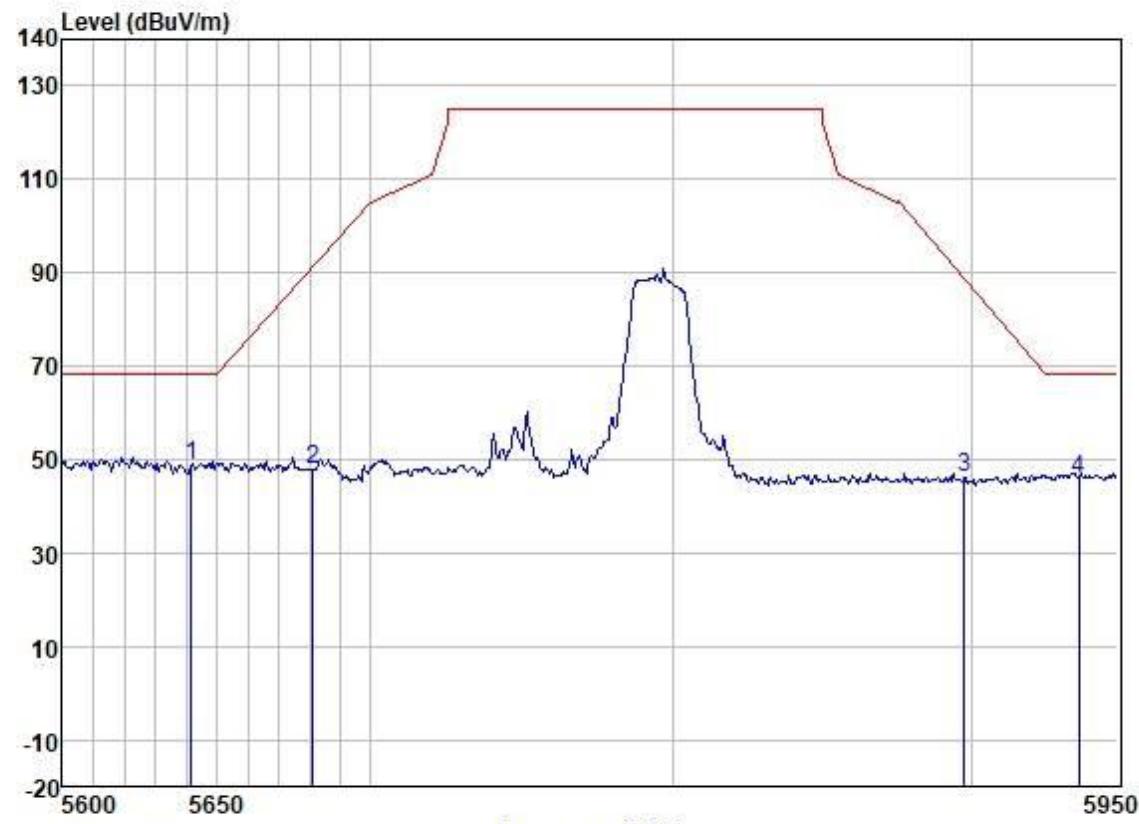
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	Level	Line	
1	5627.567	42.97	31.93	6.33	36.17	45.06	68.20	-23.14 HORIZONTAL Peak
2	5673.470	44.64	31.99	6.38	36.16	46.85	85.61	-38.76 HORIZONTAL Peak
3	5904.365	44.32	32.31	5.90	36.12	46.41	83.46	-37.05 HORIZONTAL Peak
4	5931.272	43.81	32.34	6.00	36.11	46.04	68.20	-22.16 HORIZONTAL Peak

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Test Mode: 06; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 5641.572	46.63	31.95	6.35	36.16	48.77	68.20	-19.43	VERTICAL Peak
2 5681.042	45.75	31.99	6.38	36.16	47.96	91.21	-43.25	VERTICAL Peak
3 5897.568	44.01	32.31	5.90	36.12	46.10	88.50	-42.40	VERTICAL Peak
4 5936.668	43.61	32.34	6.00	36.11	45.84	68.20	-22.36	VERTICAL Peak

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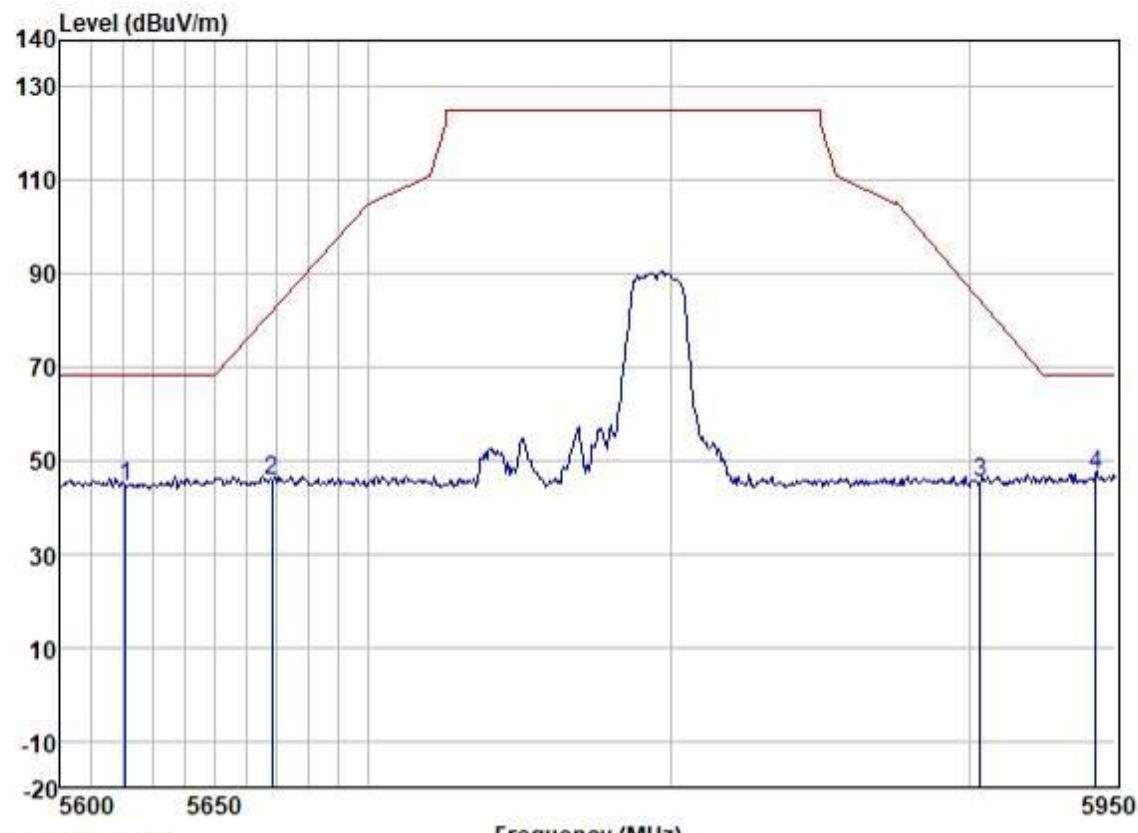
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



7.10 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

7.10.1 E.U.T. Operation

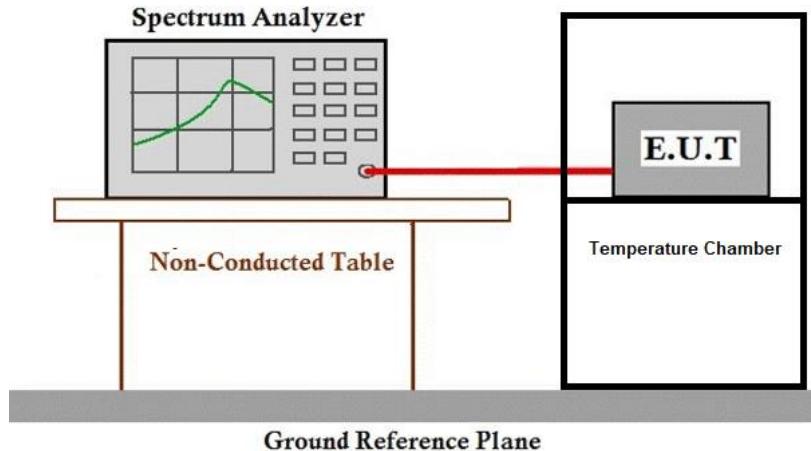
Operating Environment:

Temperature: 26.1 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	05	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Final test	06	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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

Please Refer to Appendix for Details

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7.11 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 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: 23.0 °C Humidity: 52 % RH Atmospheric Pressure: 1006 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	03	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.
Pre-scan	04	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), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

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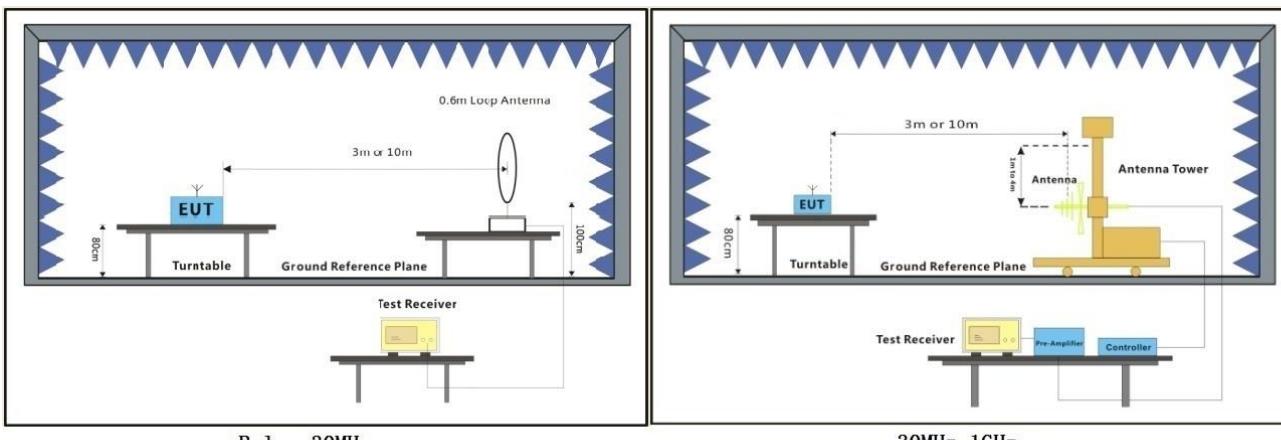
Pre-scan 05

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); , final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

Pre-scan 06

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), final test modes are considering the modulation and worse data rates. 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.

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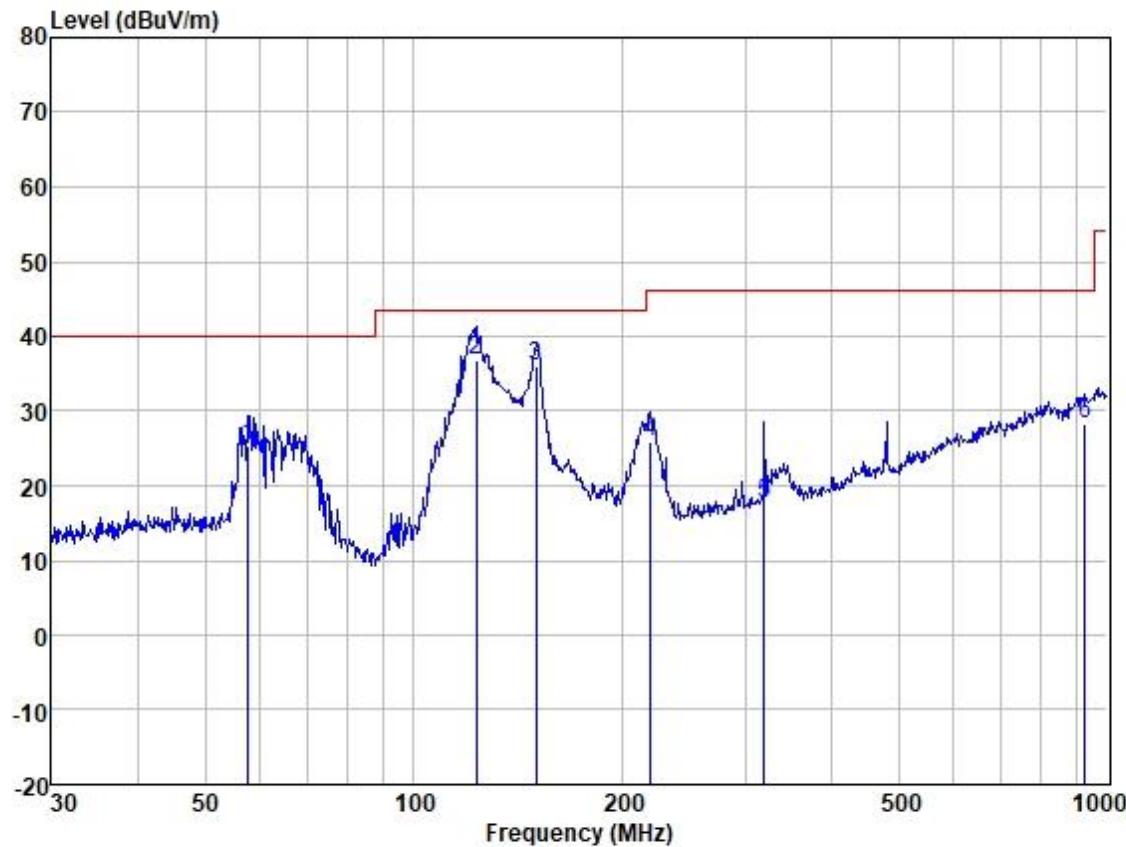


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Test Mode: 03; Polarity: Horizontal



Site : SGS
Job :
Model :
Power :
Test Mode : 5G

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	57.594	38.15	13.64	1.22	27.60	25.41	40.00	-14.59	HORIZONTAL QP
2	122.834	51.00	11.47	1.90	27.55	36.82	43.50	-6.68	HORIZONTAL QP
3	150.011	47.54	13.58	2.24	27.39	35.97	43.50	-7.53	HORIZONTAL QP
4	219.075	40.45	10.02	2.63	27.29	25.81	46.00	-20.19	HORIZONTAL QP
5	319.937	27.60	14.03	3.32	27.32	17.63	46.00	-28.37	HORIZONTAL QP
6	929.008	25.88	23.61	7.06	28.15	28.40	46.00	-17.60	HORIZONTAL QP

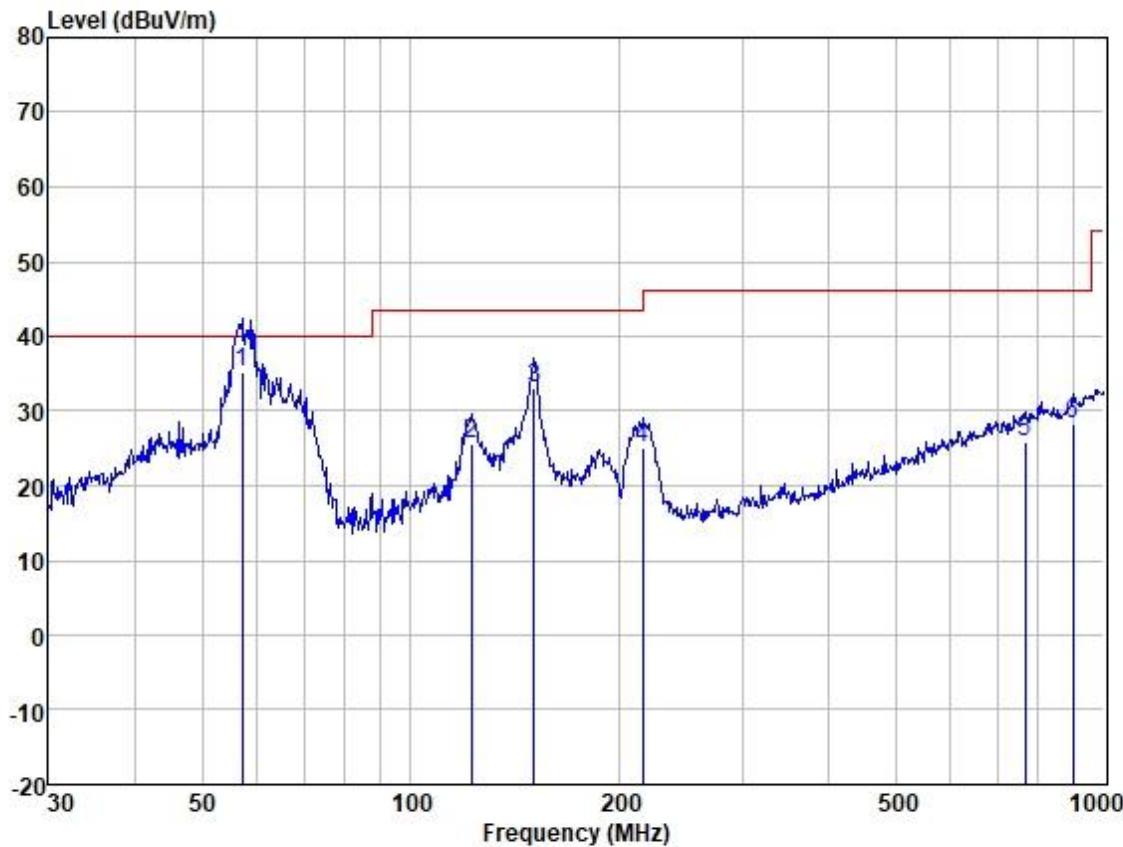
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Test Mode: 03; Polarity: Vertical



Site : SGS
Job :
Model :
Power :
Test Mode : 5G

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 56.991	48.03	13.64	1.21	27.60	35.28	40.00	-4.72	VERTICAL	QP
2 121.976	39.88	11.39	1.89	27.55	25.61	43.50	-17.89	VERTICAL	QP
3 150.538	44.63	13.58	2.24	27.39	33.06	43.50	-10.44	VERTICAL	QP
4 216.024	39.76	10.01	2.62	27.29	25.10	46.00	-20.90	VERTICAL	QP
5 768.748	26.33	22.14	6.05	28.62	25.90	46.00	-20.10	VERTICAL	QP
6 900.147	26.42	23.08	6.92	28.20	28.22	46.00	-17.78	VERTICAL	QP

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8 Test Setup Photo

Refer to Setup Photos for GZCR220600075402



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9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2206000754HS



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10 Appendix

1. Duty Cycle

1.1 Ant1

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	1.397	1.494	93.51	0.29	0.04
		5200	1.398	1.495	93.51	0.29	0.03
		5240	1.398	1.495	93.51	0.29	0.03
		5260	1.397	1.494	93.51	0.29	0.10
		5300	1.398	1.496	93.45	0.29	0.06
		5320	1.397	1.495	93.44	0.29	0.03
		5500	1.398	1.495	93.51	0.29	0.03
		5580	1.397	1.495	93.44	0.29	0.04
		5700	1.398	1.495	93.51	0.29	0.06
		5745	1.397	1.494	93.51	0.29	0.03
		5785	1.397	1.494	93.51	0.29	0.03
		5825	1.397	1.494	93.51	0.29	0.03
802.11n (HT20)	SISO	5180	1.309	1.407	93.03	0.31	0.03
		5200	0.004	0.011	36.36	4.39	56.21
		5240	1.308	1.407	92.96	0.32	0.03
		5260	1.310	1.407	93.11	0.31	0.03
		5300	1.308	1.407	92.96	0.32	0.03
		5320	1.308	1.407	92.96	0.32	0.03
		5500	1.310	1.407	93.11	0.31	0.03
		5580	1.308	1.407	92.96	0.32	0.03
		5700	1.307	1.406	92.96	0.32	0.03
		5745	1.310	1.407	93.11	0.31	0.03
		5785	1.308	1.407	92.96	0.32	0.03
		5825	1.308	1.407	92.96	0.32	0.04

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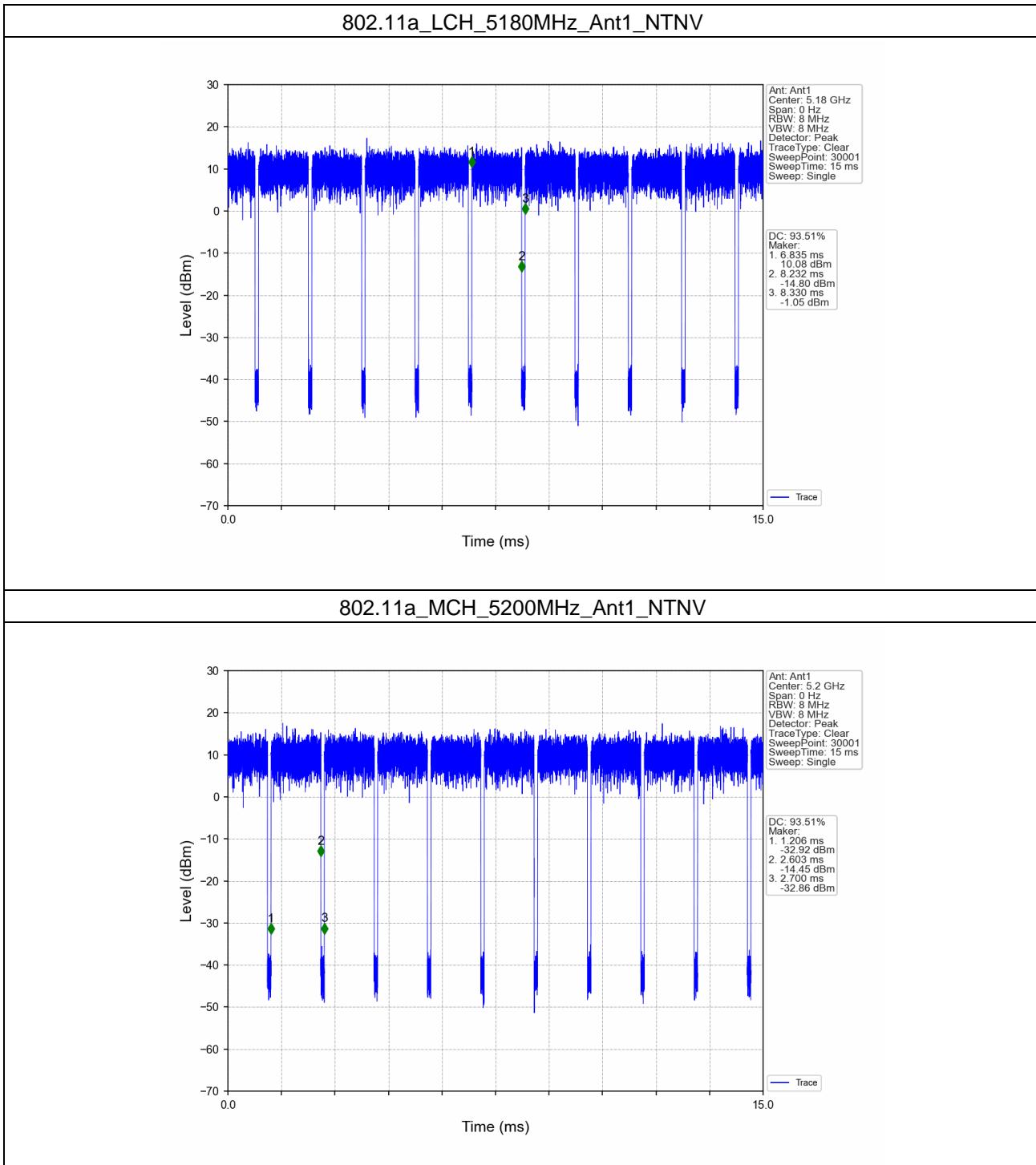
802.11n (HT40)	SISO	5190	0.000	0.000	NaN	NaN	37.11
		5230	0.653	0.747	87.42	0.58	0.10
		5270	0.648	0.747	86.75	0.62	0.04
		5310	0.653	0.748	87.30	0.59	0.07
		5510	0.650	0.747	87.01	0.60	0.04
		5550	0.653	0.747	87.42	0.58	0.10
		5670	0.653	0.747	87.42	0.58	0.04
		5755	0.650	0.747	87.01	0.60	0.04
		5795	0.653	0.747	87.42	0.58	0.07

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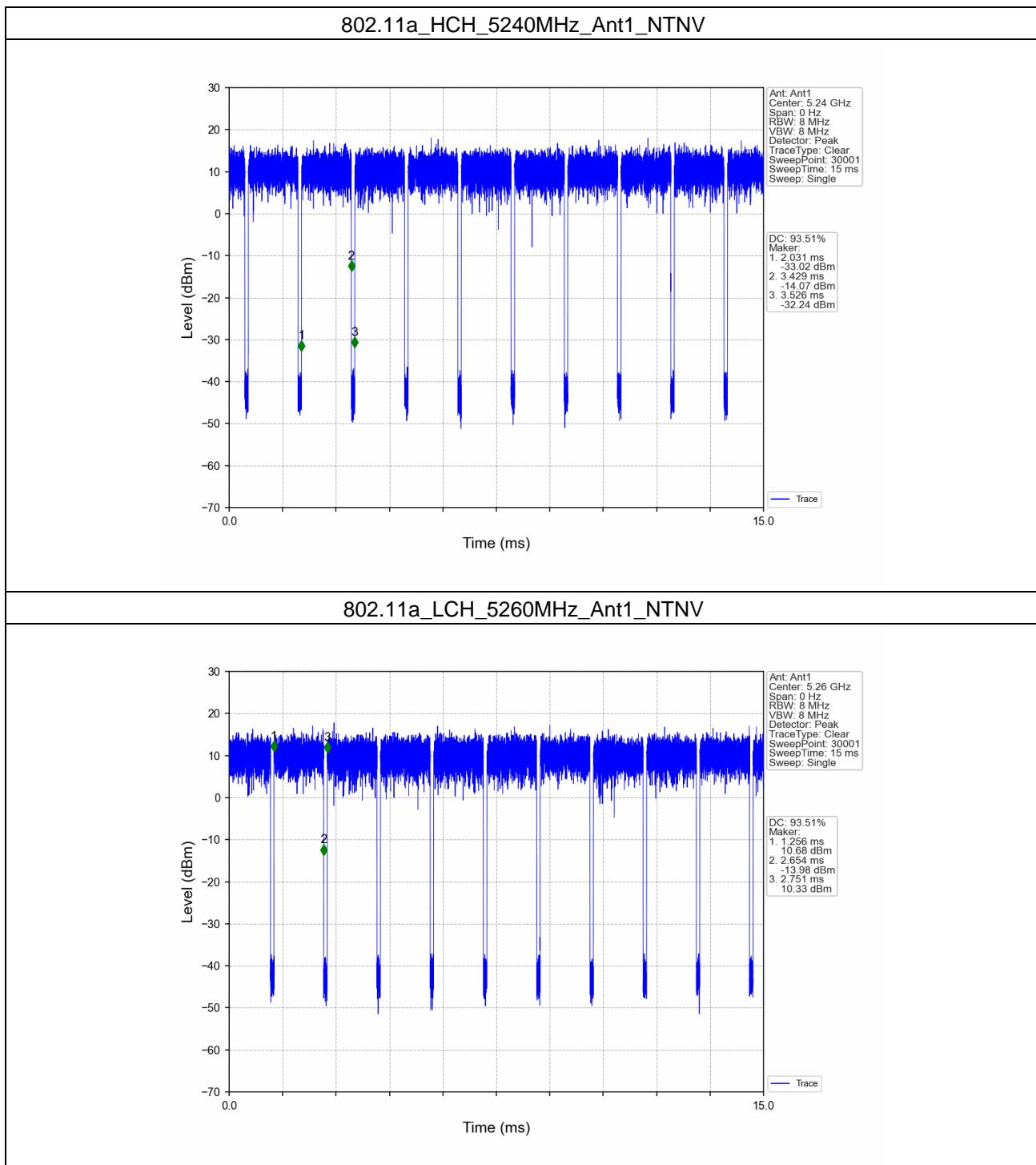
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1.1.2 Test Graph

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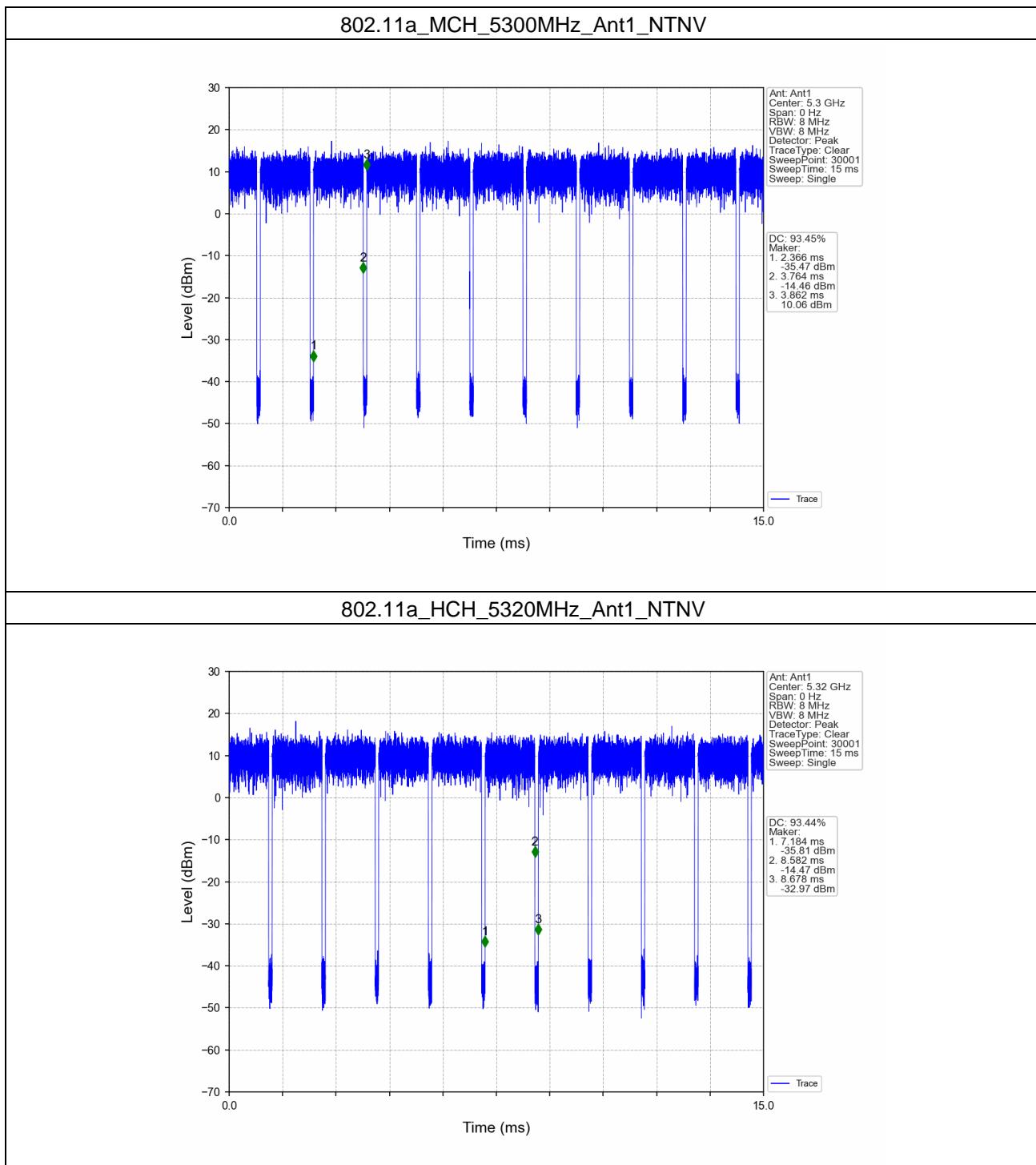




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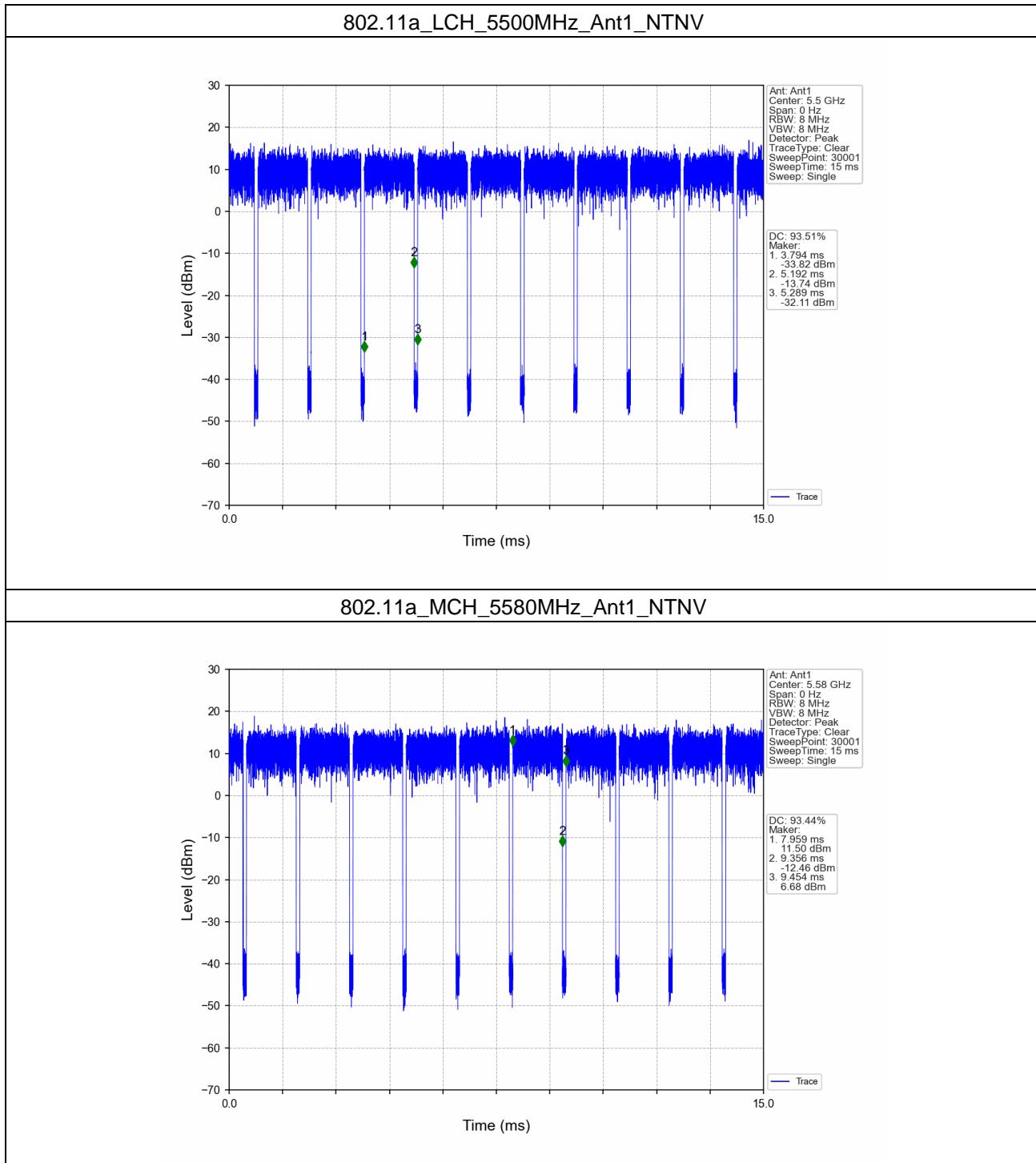


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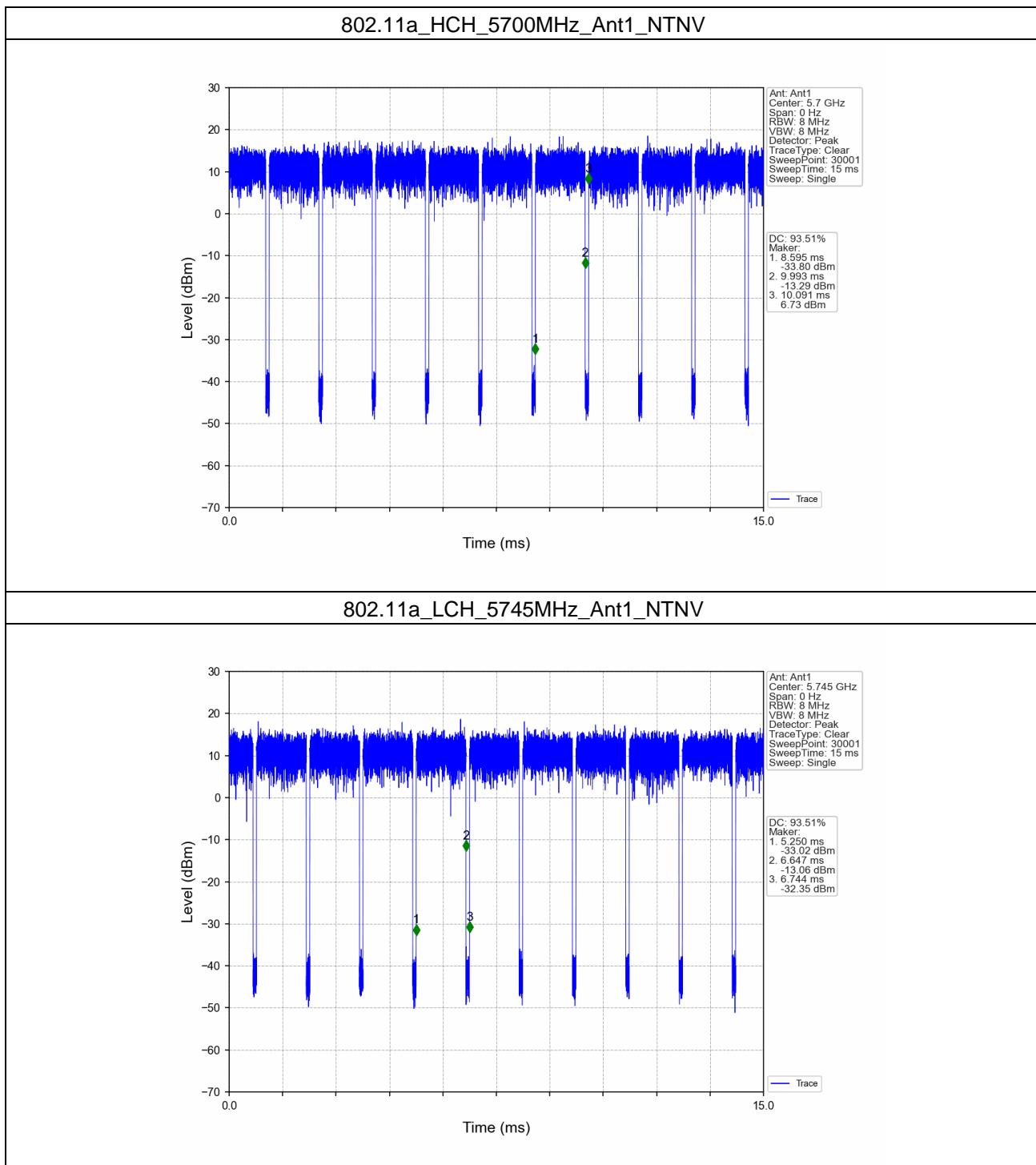


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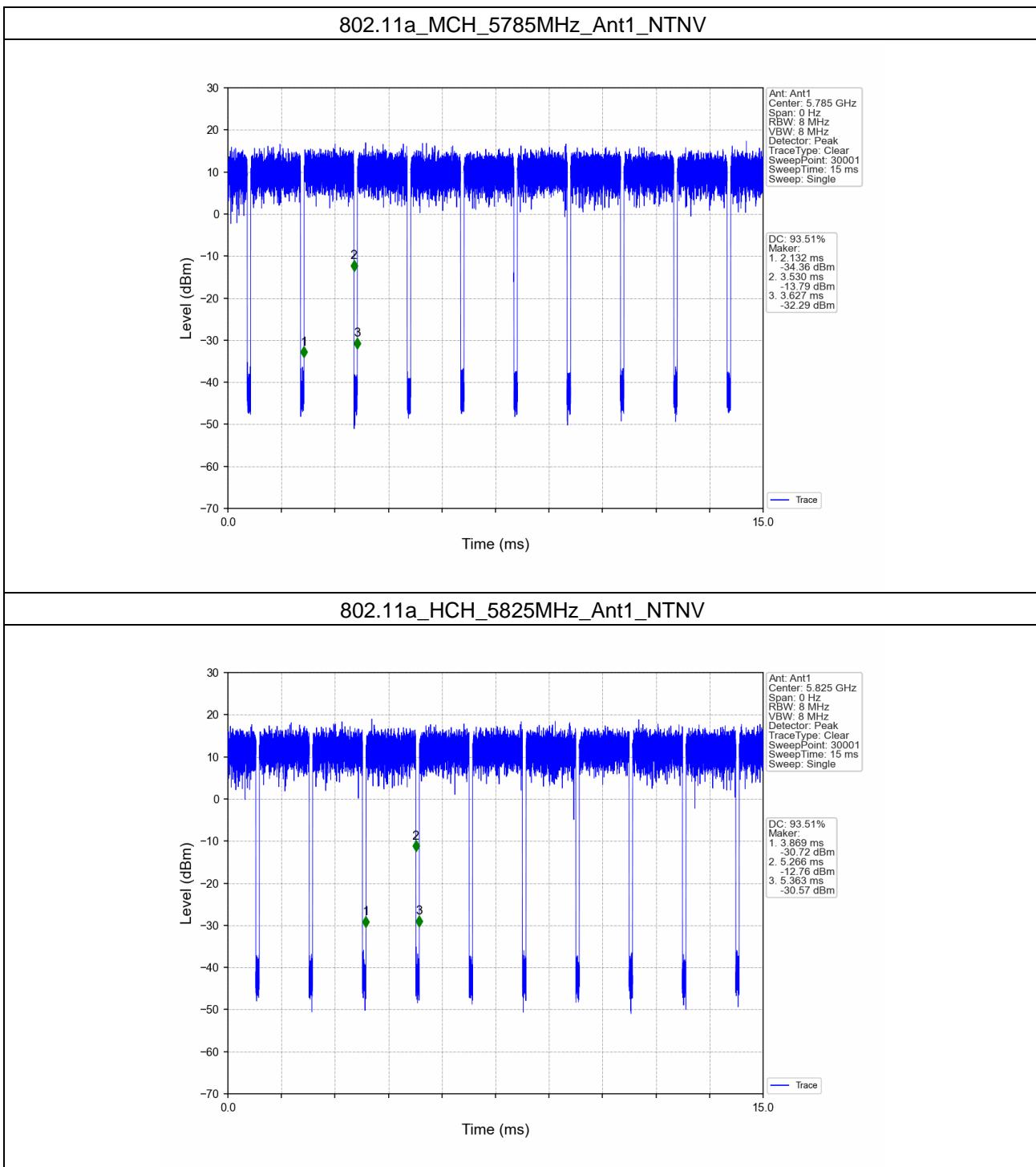
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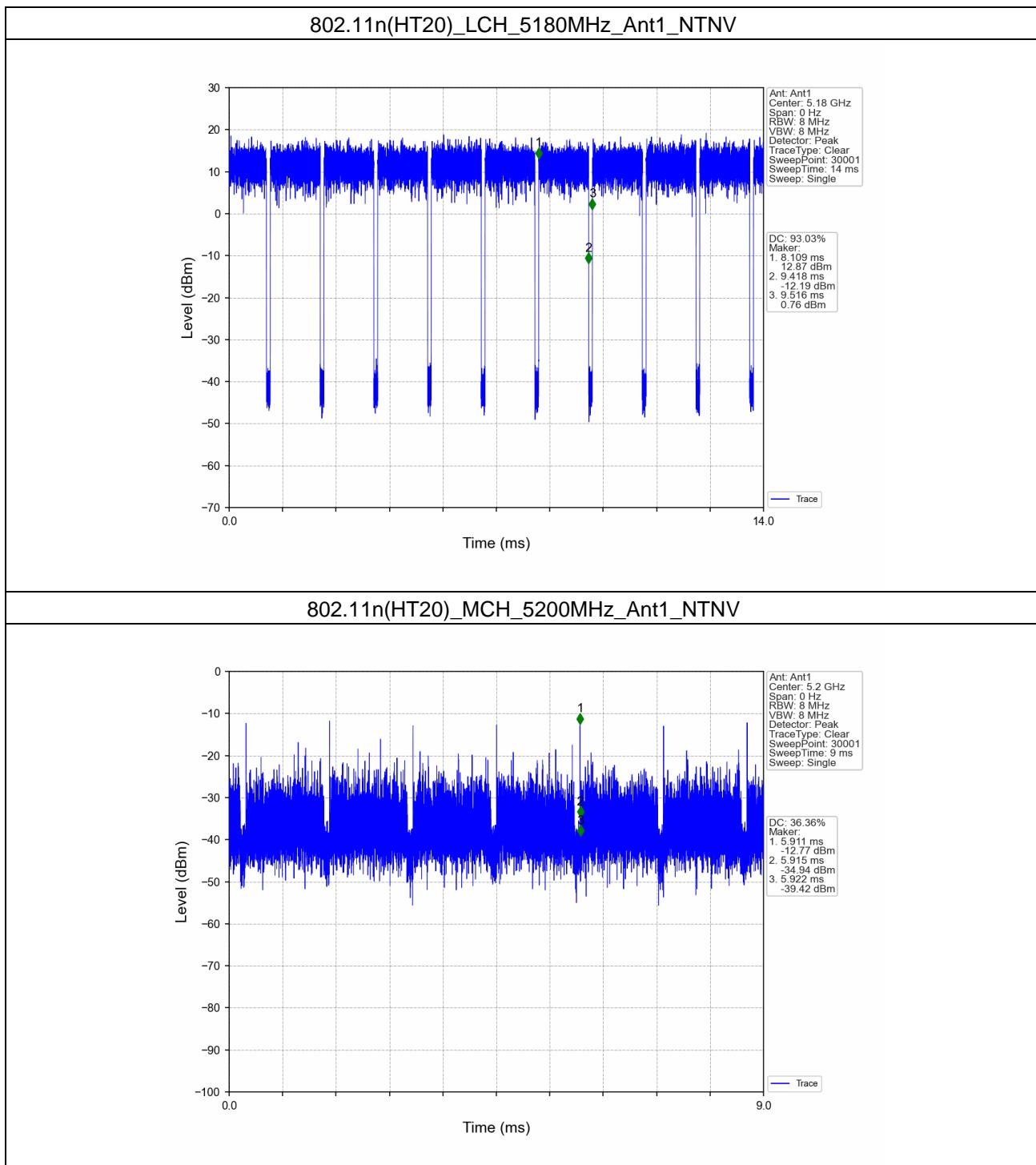




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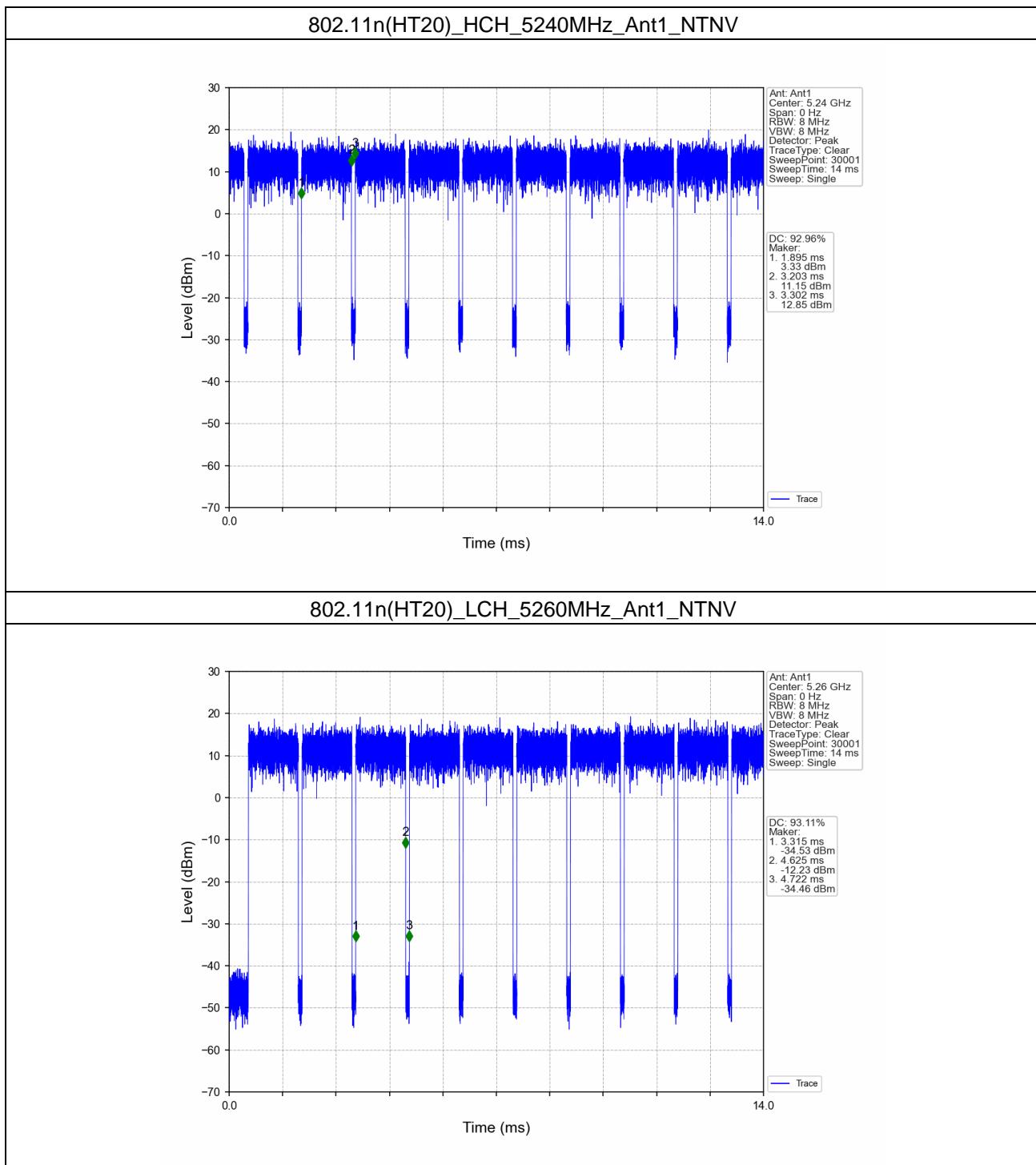


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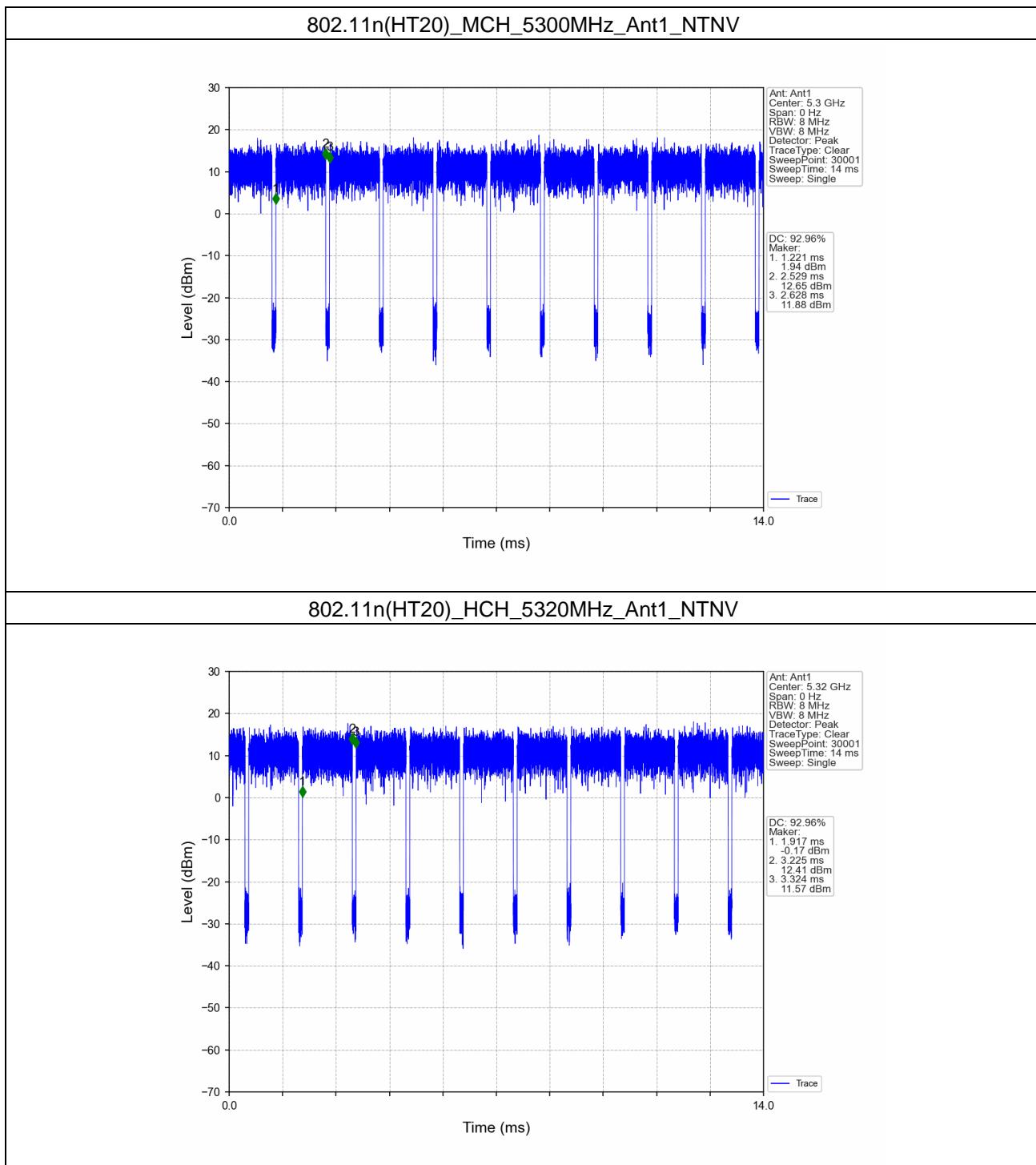
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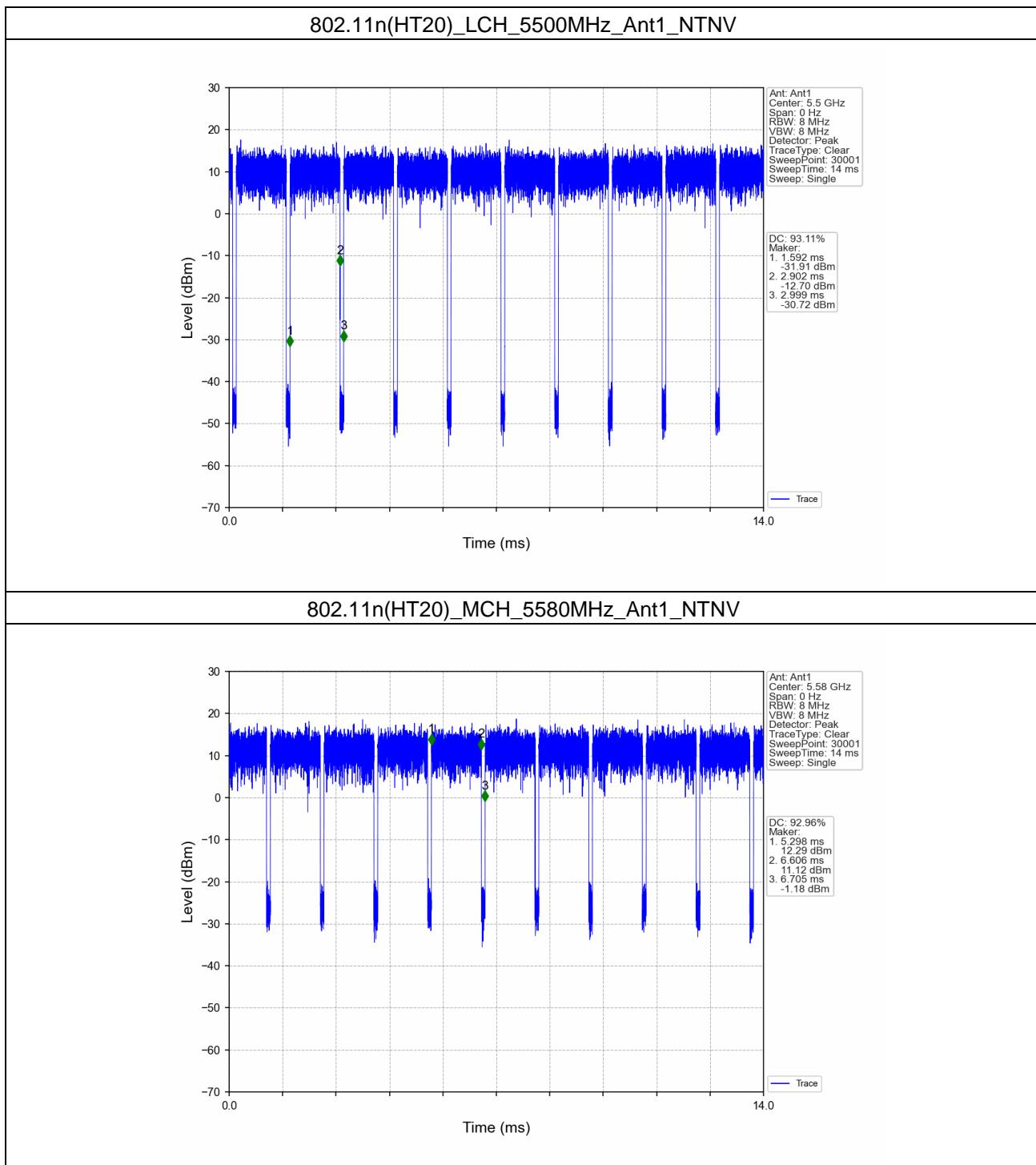


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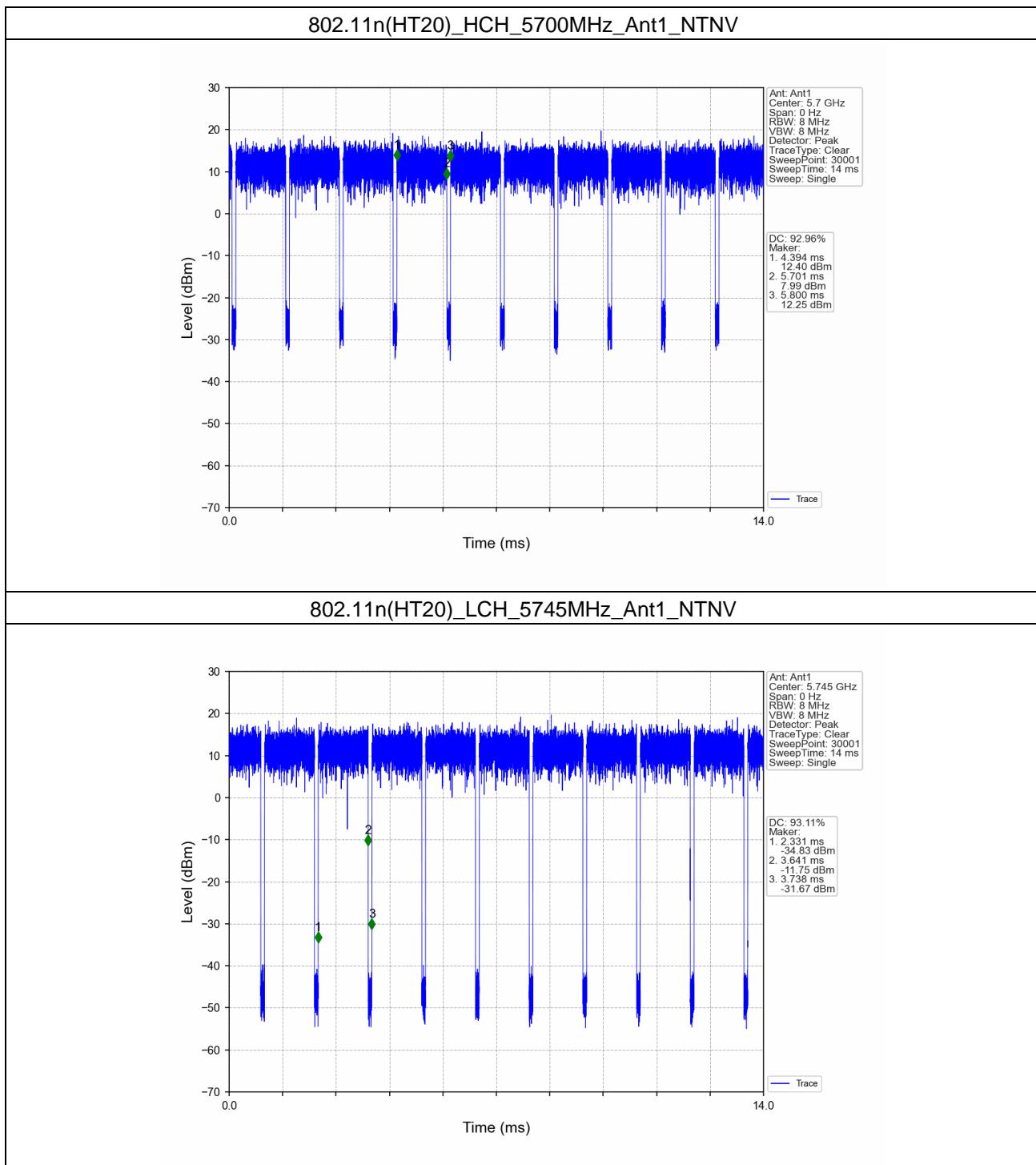
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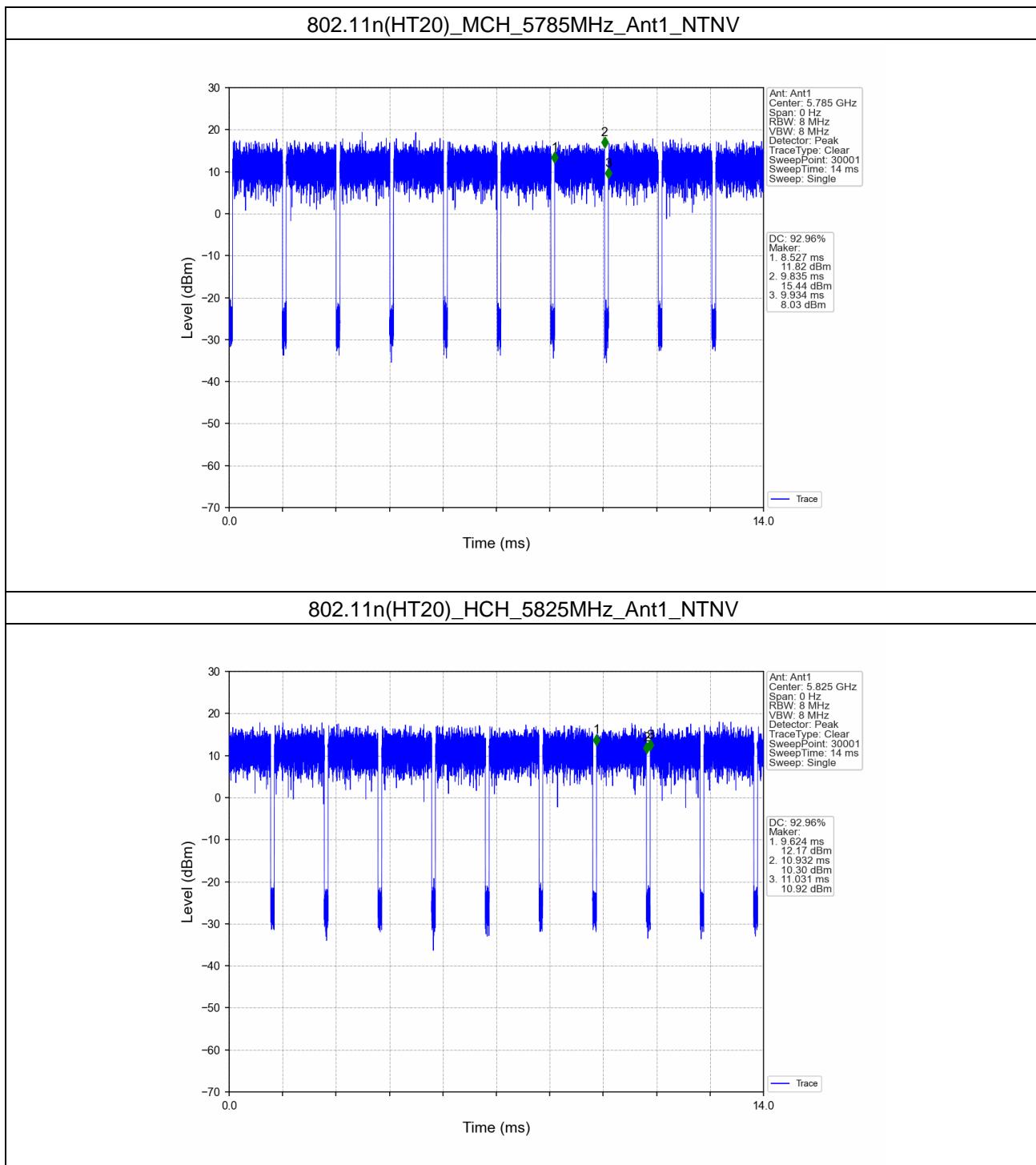


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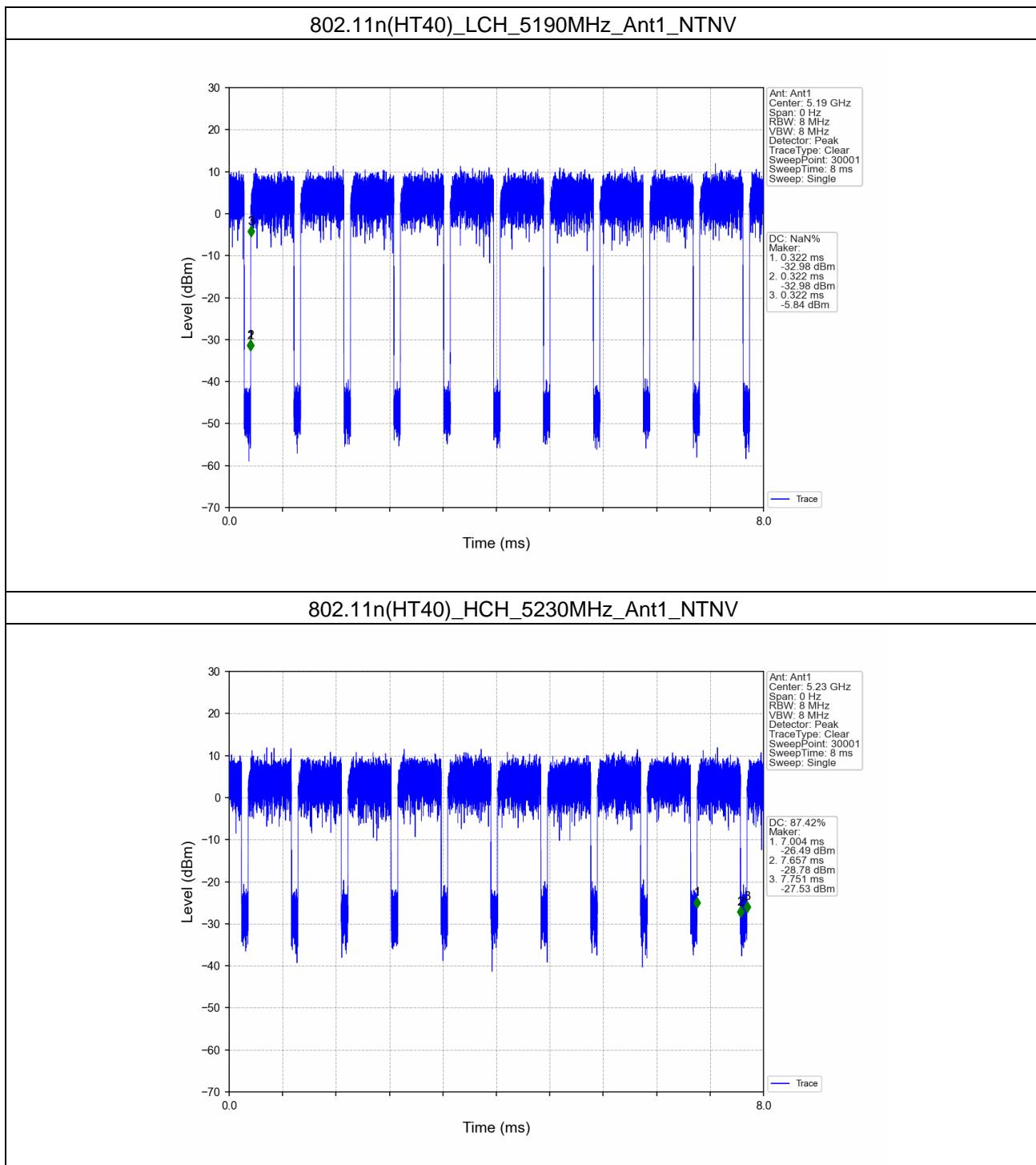
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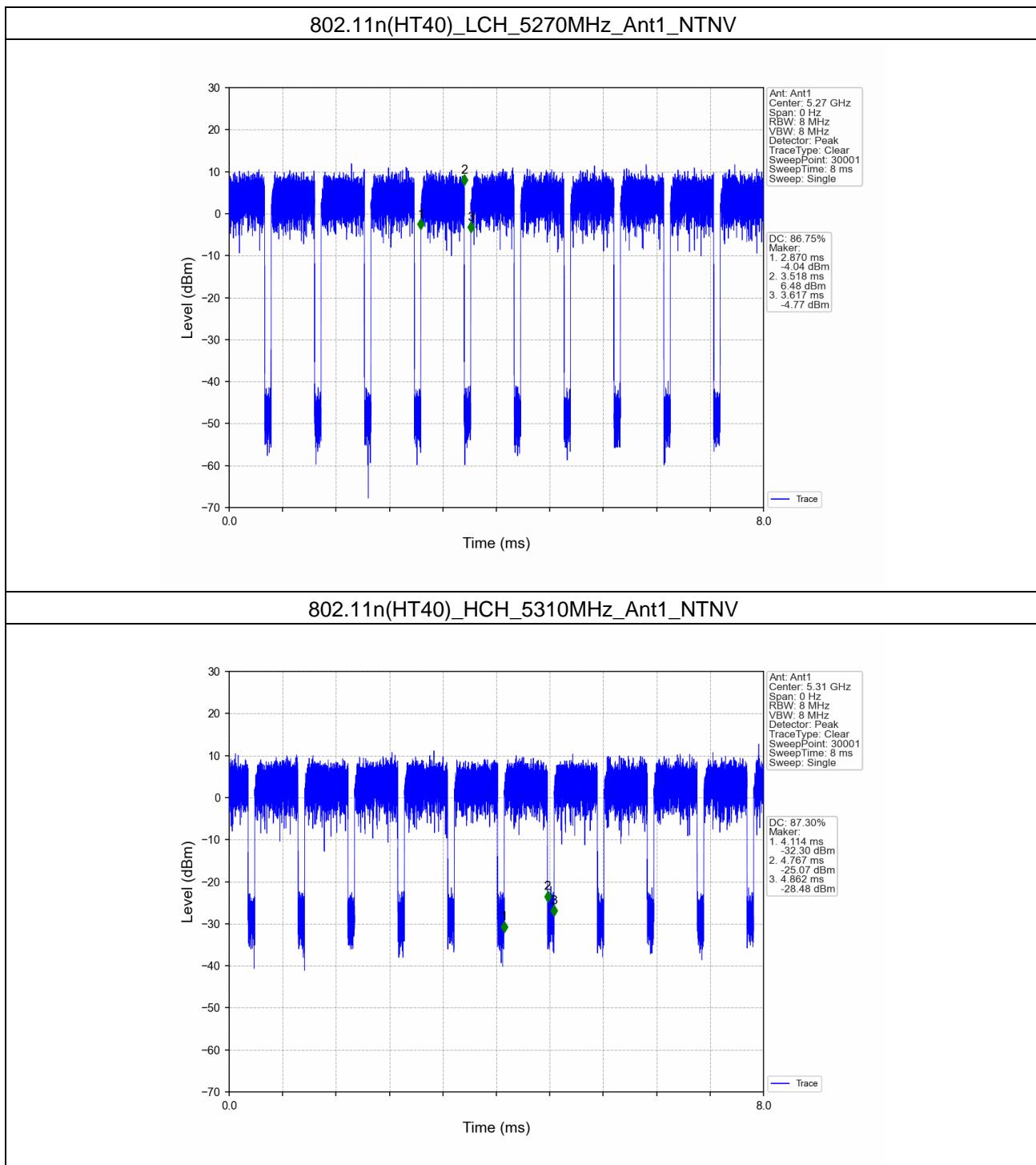




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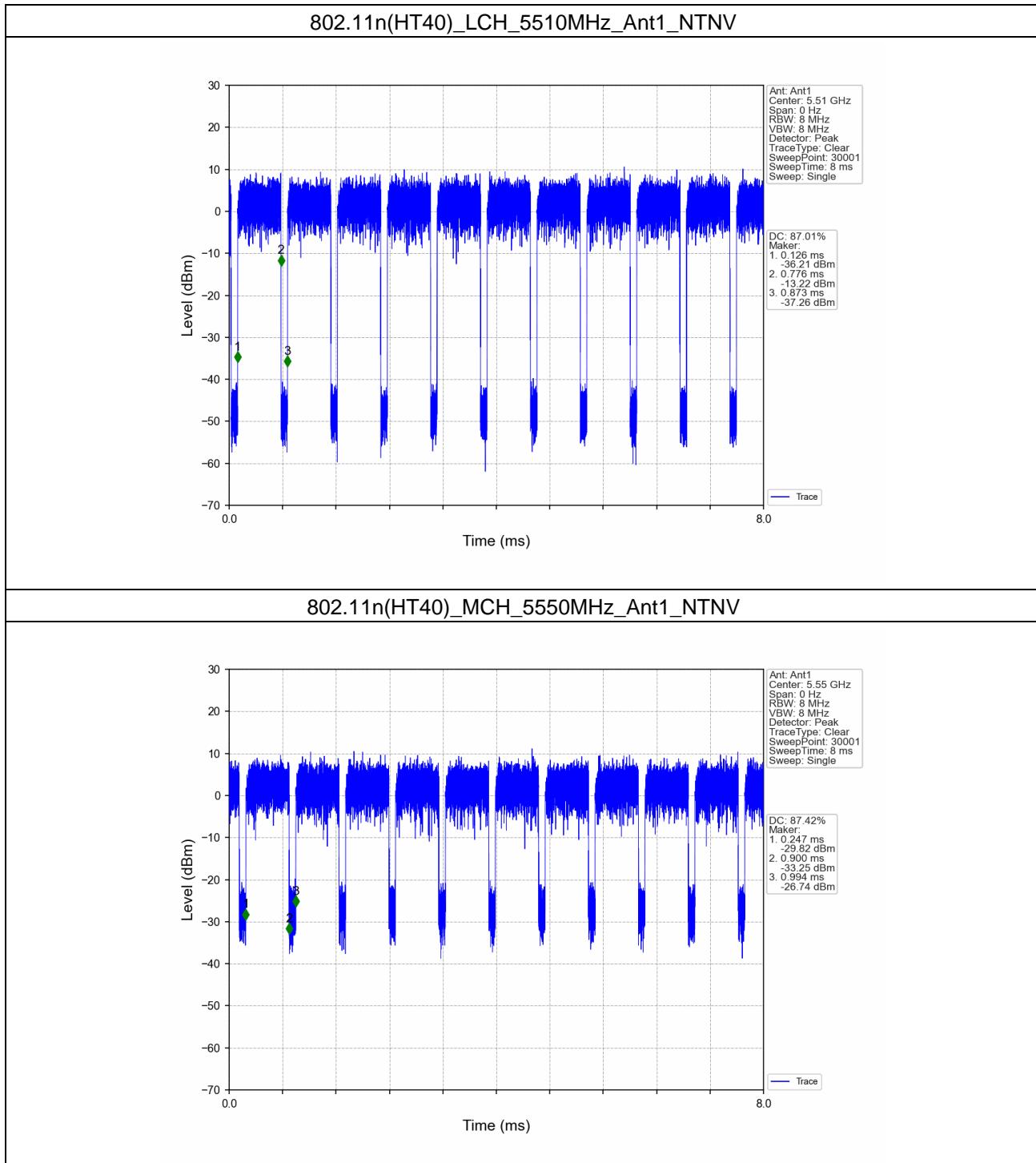




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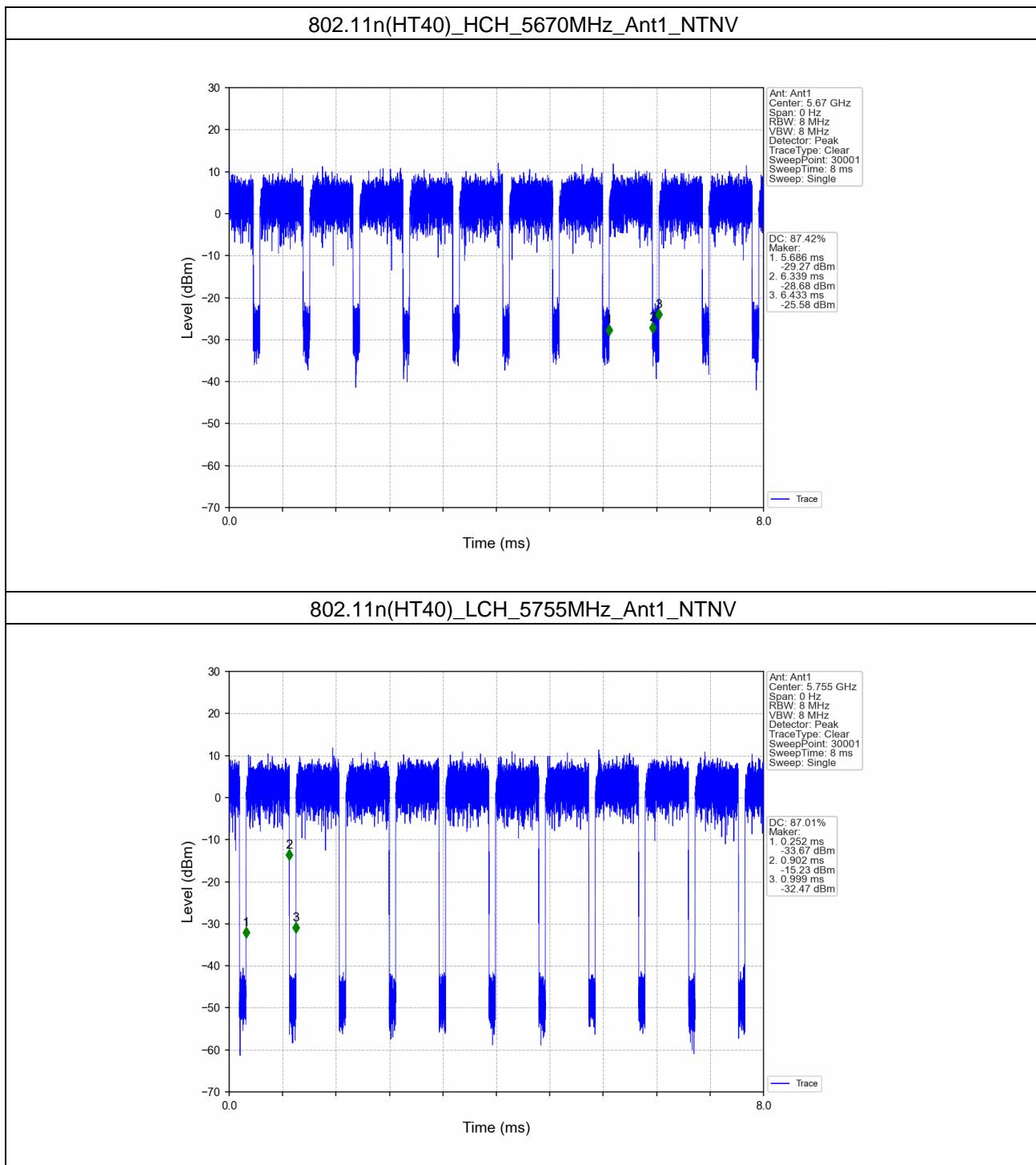


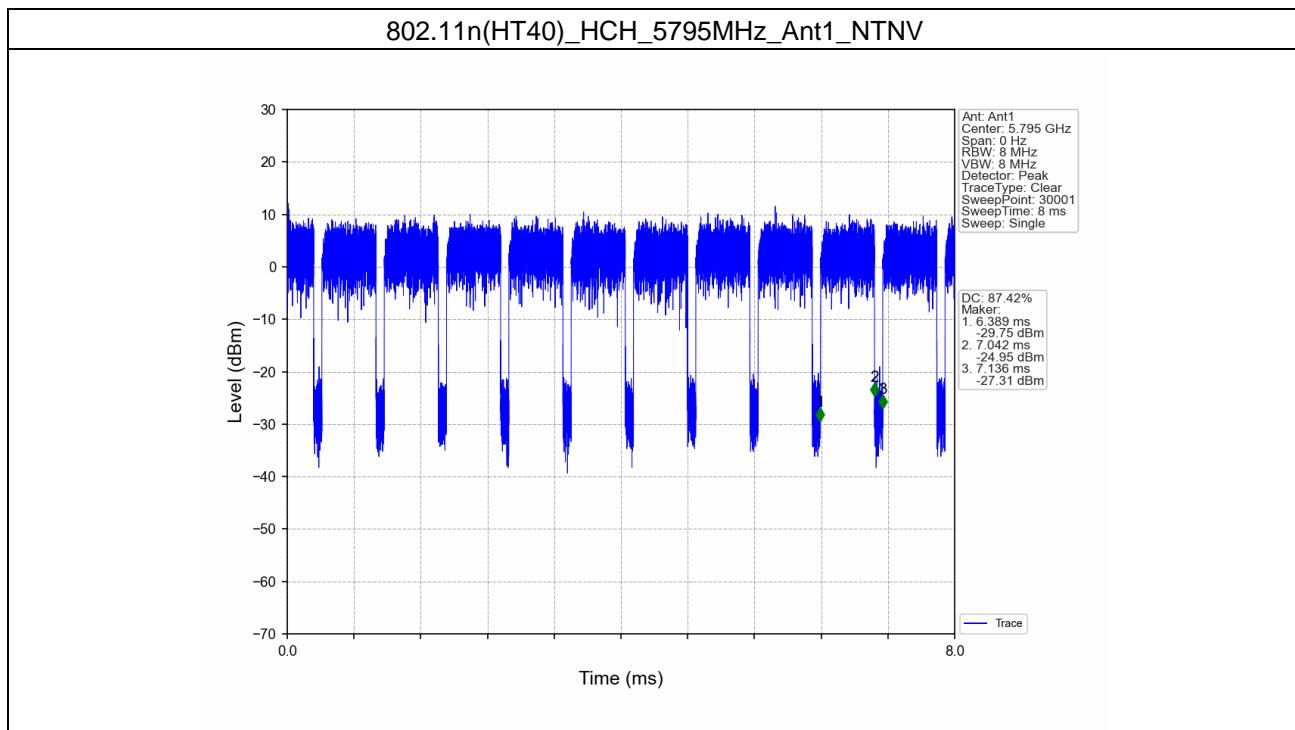


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2. Bandwidth

2.1 OBW

2.1.1 Test Result

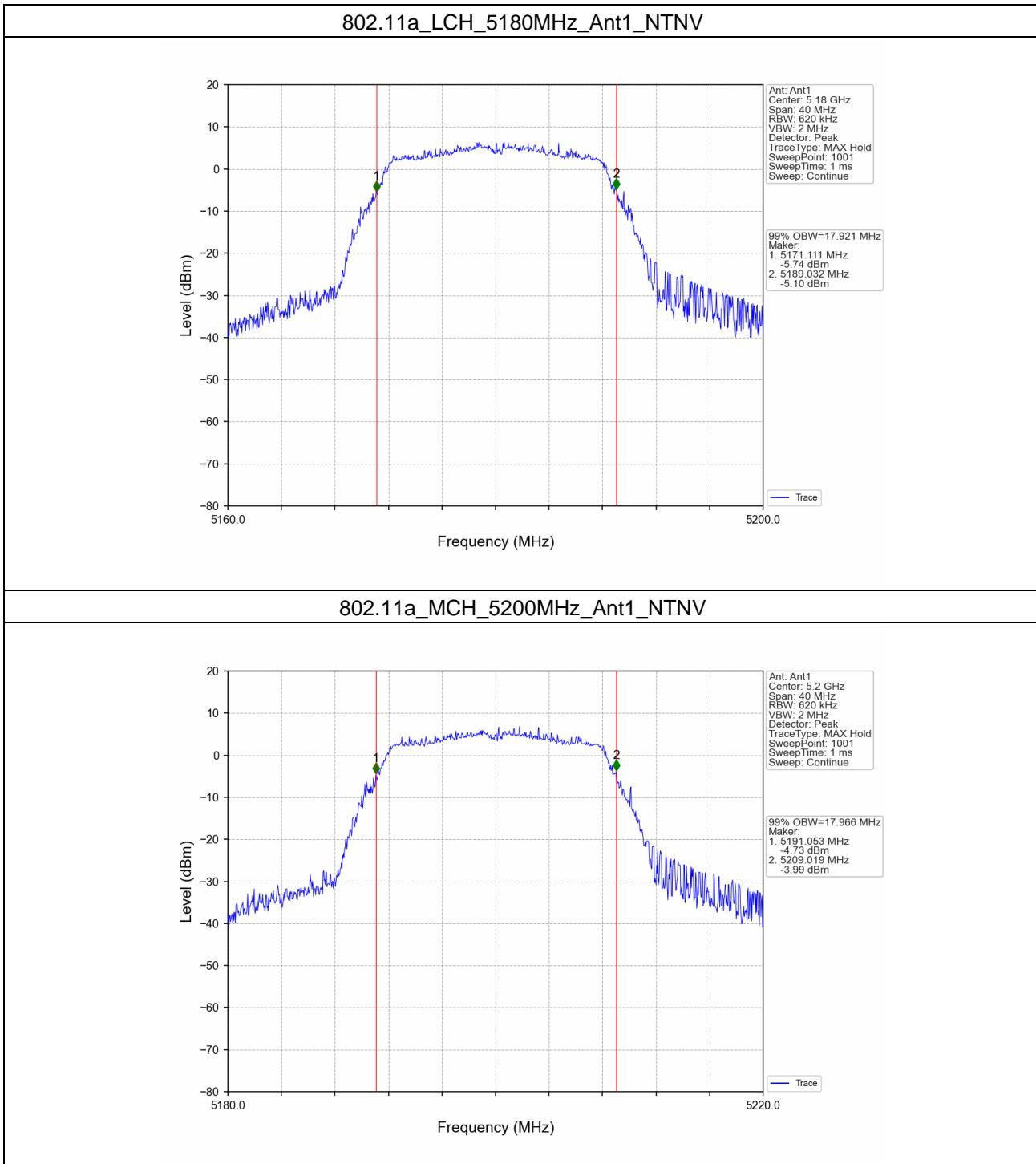
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result		
802.11a	SISO	5180	1	17.921		Pass
		5200	1	17.966		Pass
		5240	1	17.821		Pass
		5260	1	17.839		Pass
		5300	1	17.787		Pass
		5320	1	17.800		Pass
		5500	1	17.779		Pass
		5580	1	17.873		Pass
		5700	1	17.825		Pass
		5745	1	17.754		Pass
		5785	1	17.753		Pass
		5825	1	17.818		Pass
802.11n (HT20)	SISO	5180	1	18.722		Pass
		5200	1	18.651		Pass
		5240	1	18.688		Pass
		5260	1	18.738		Pass
		5300	1	18.663		Pass
		5320	1	18.730		Pass
		5500	1	18.599		Pass
		5580	1	18.795		Pass
		5700	1	18.651		Pass
		5745	1	18.691		Pass
		5785	1	18.585		Pass
		5825	1	18.686		Pass
802.11n (HT40)	SISO	5190	1	36.810		Pass
		5230	1	36.733		Pass
		5270	1	36.849		Pass
		5310	1	36.745		Pass
		5510	1	36.683		Pass
		5550	1	36.760		Pass
		5670	1	36.724		Pass
		5755	1	36.721		Pass
		5795	1	36.581		Pass

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2.1.2 Test Graph

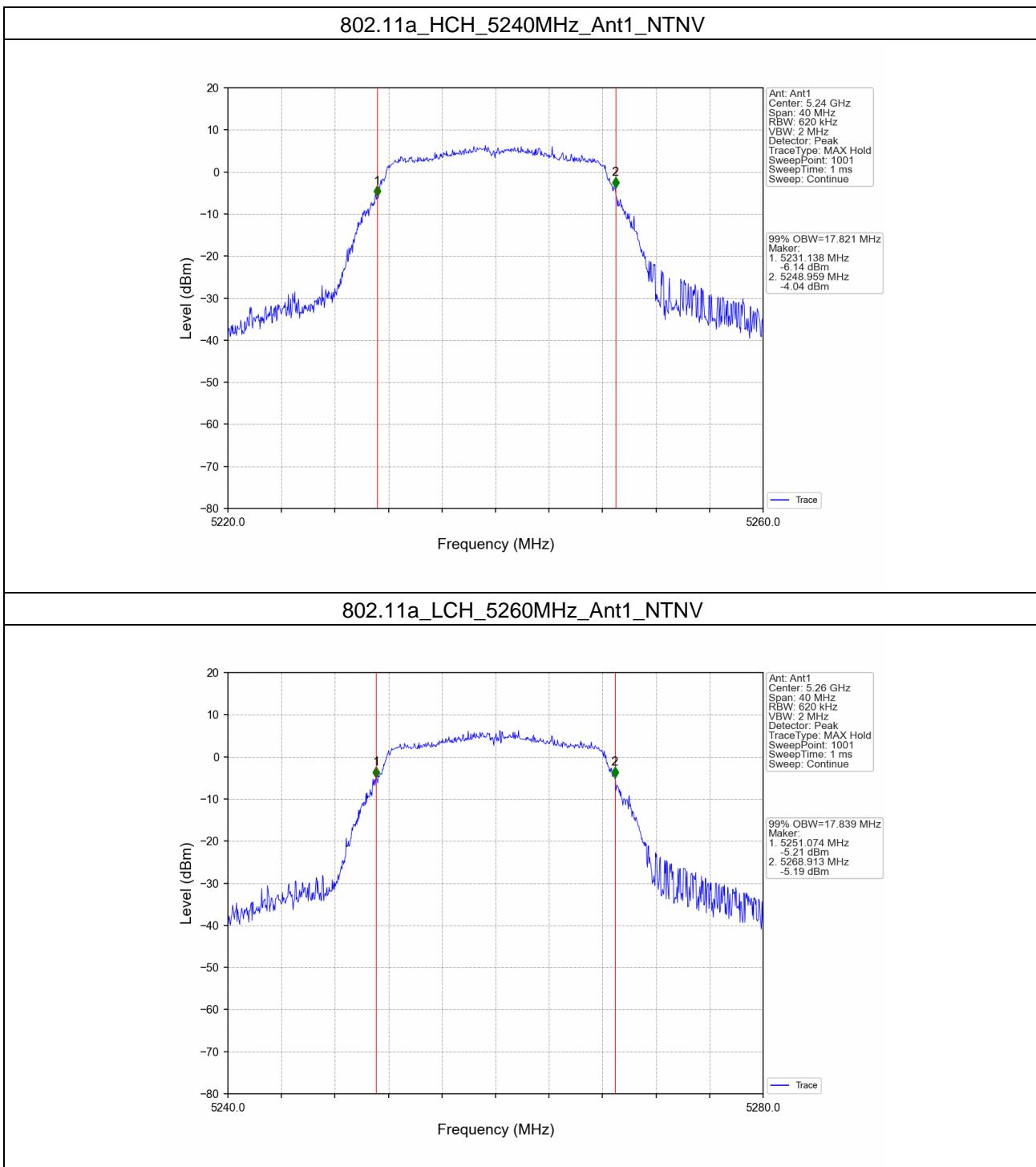


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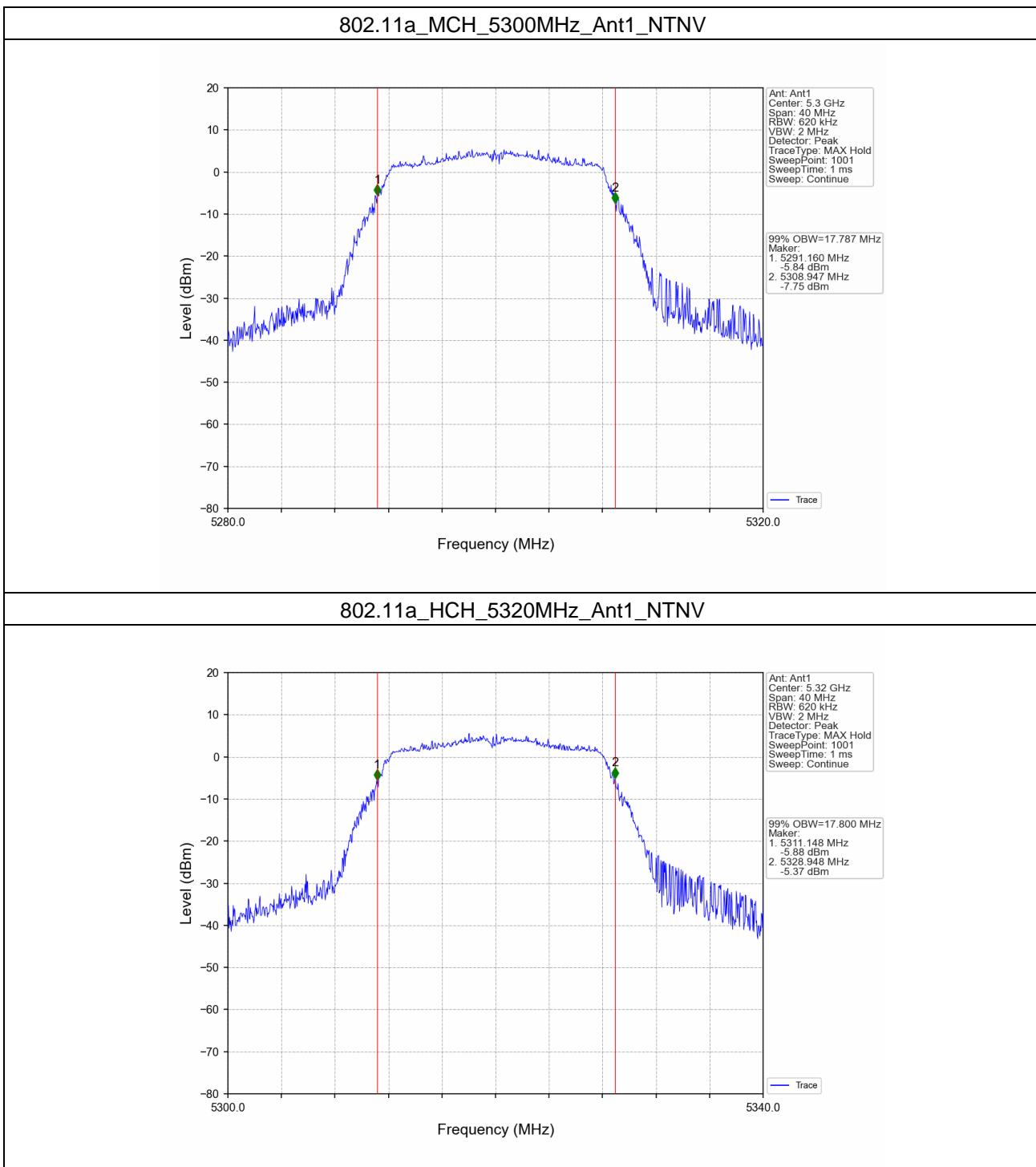
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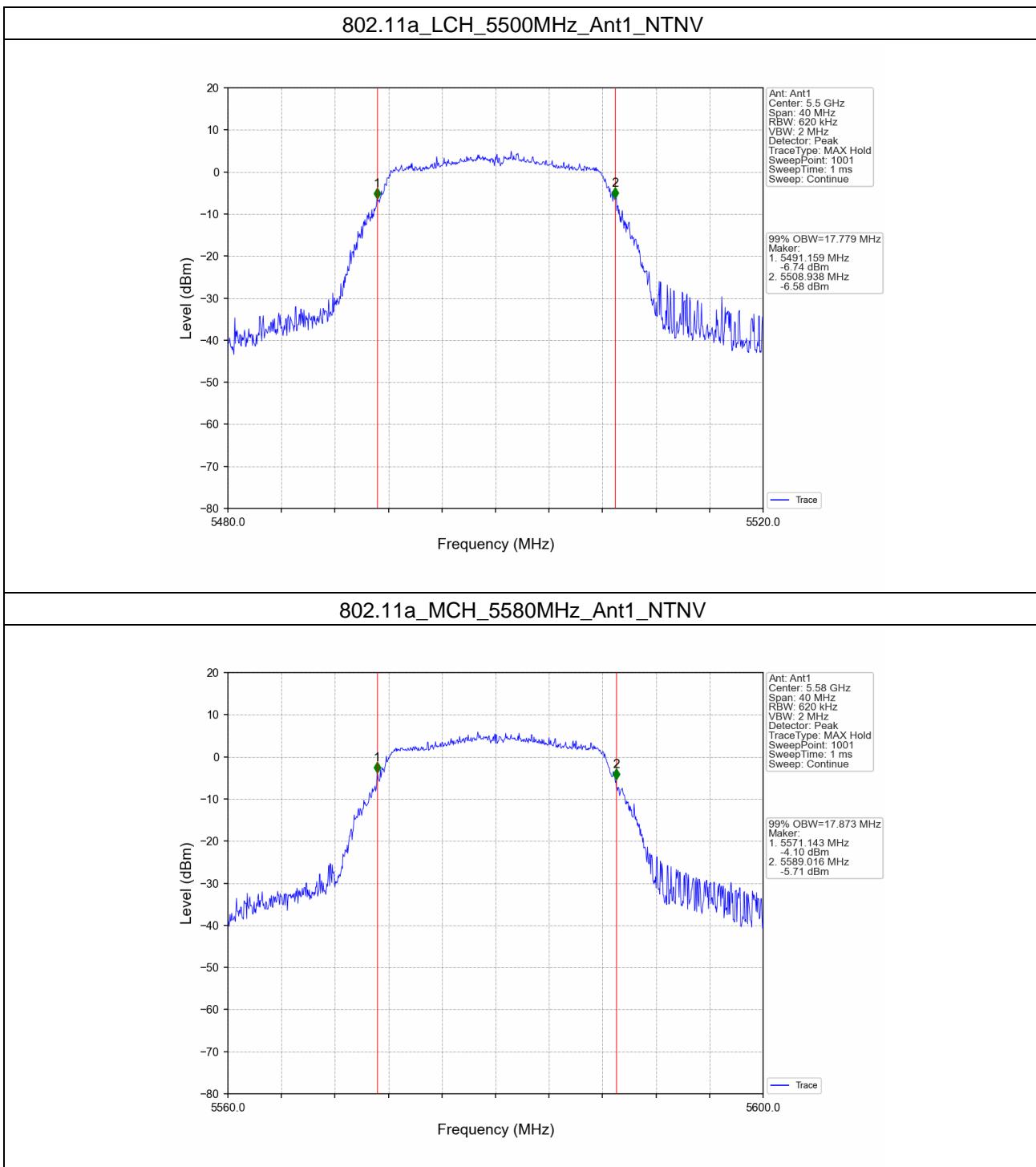


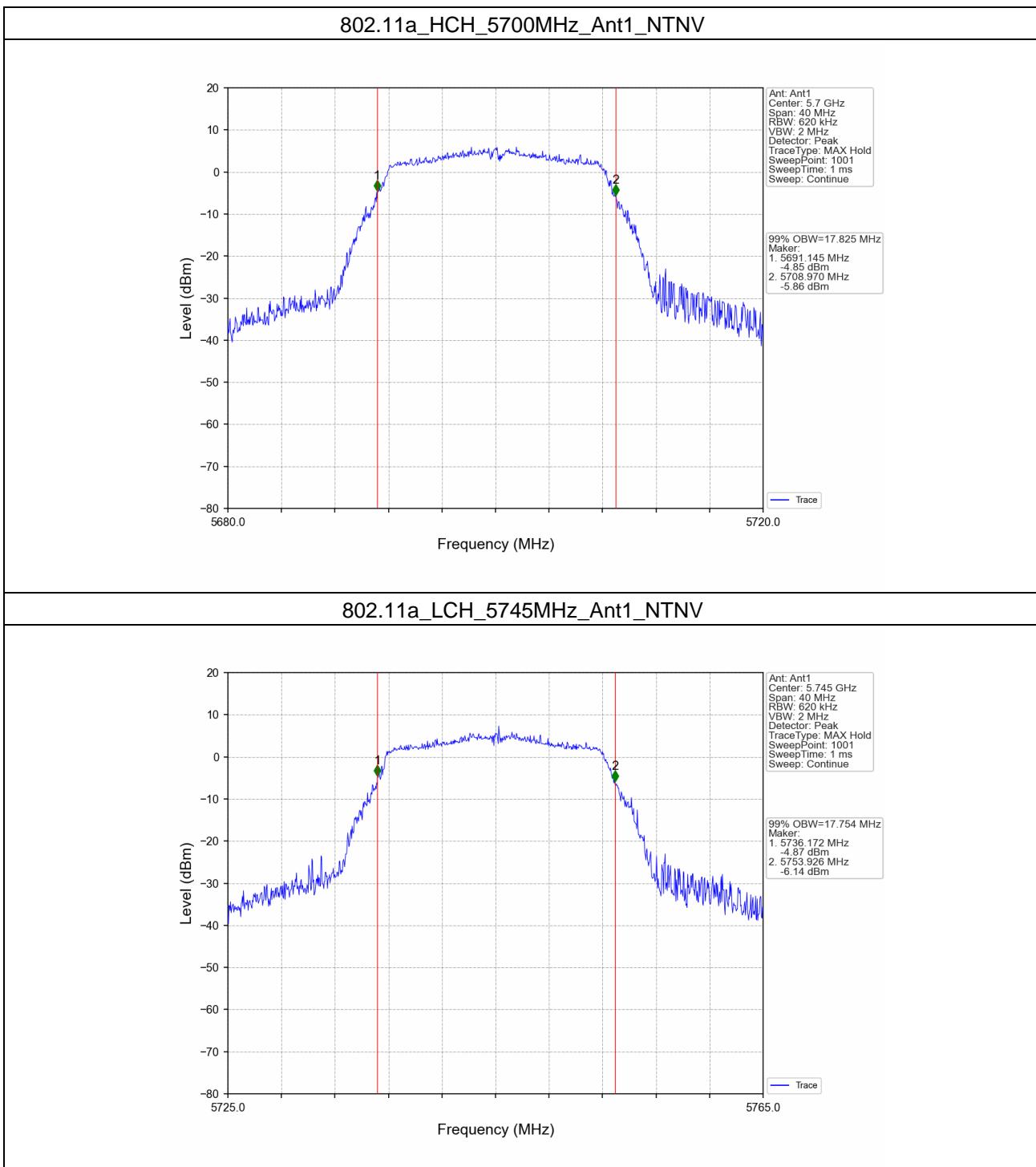
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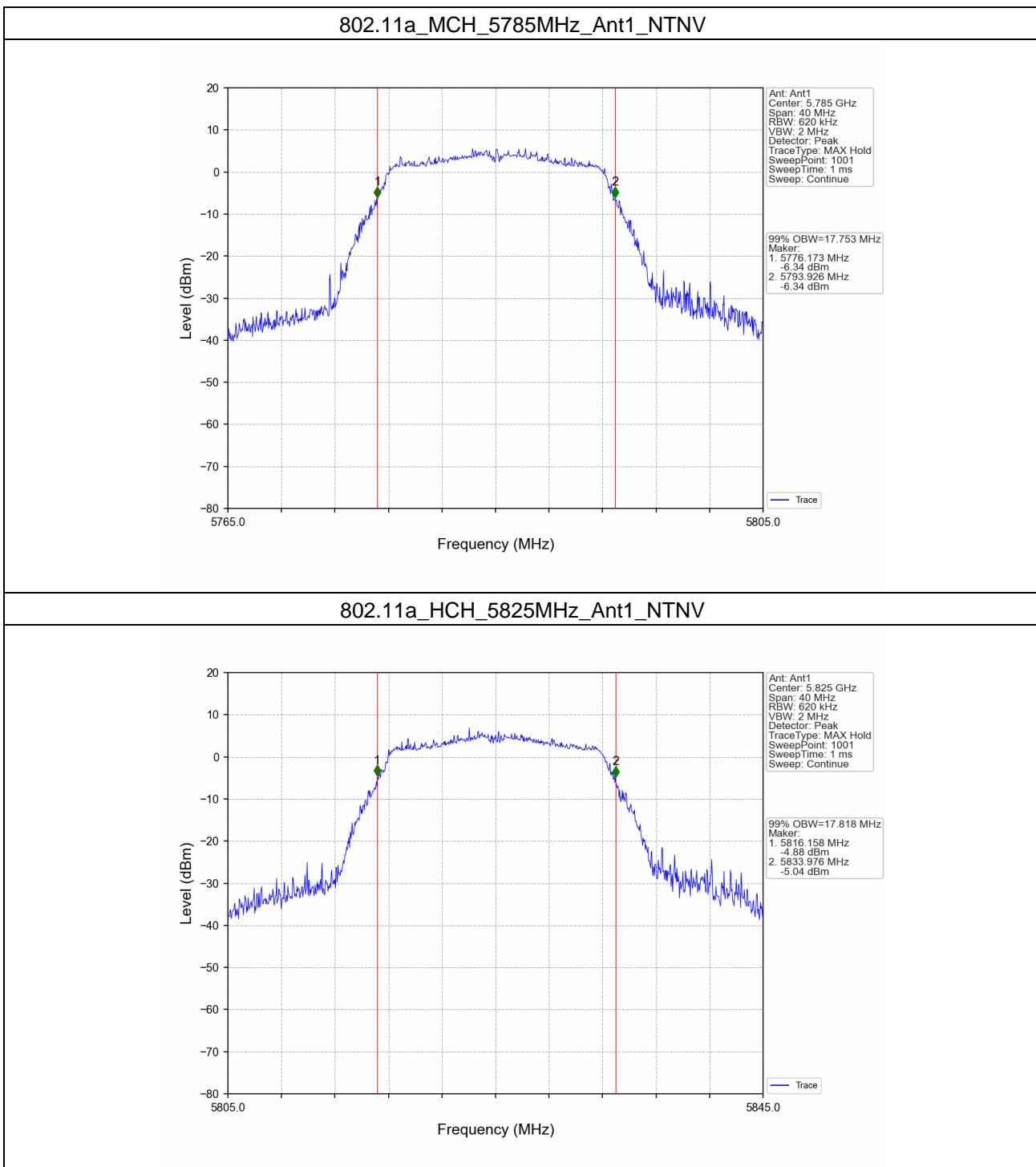




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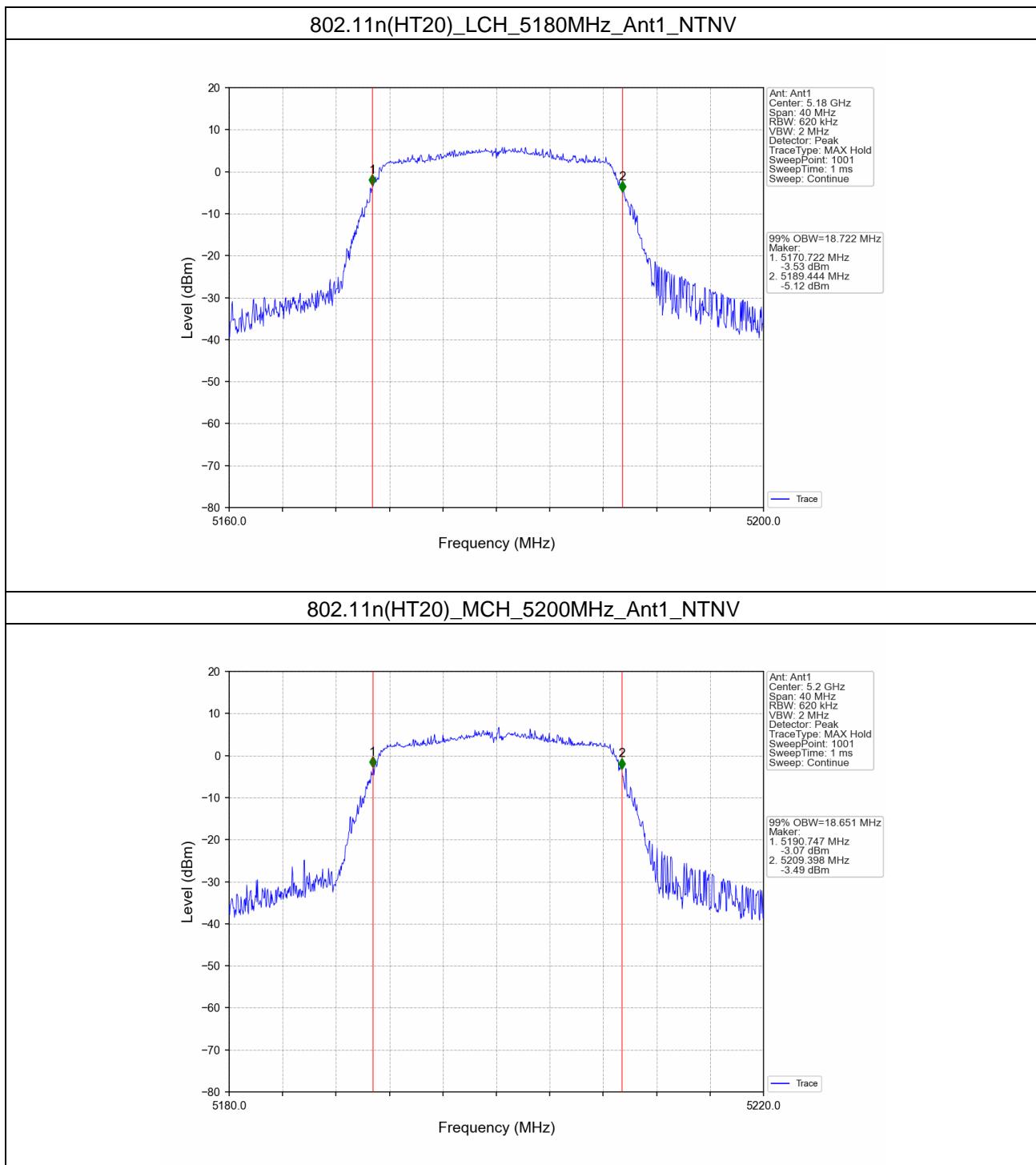




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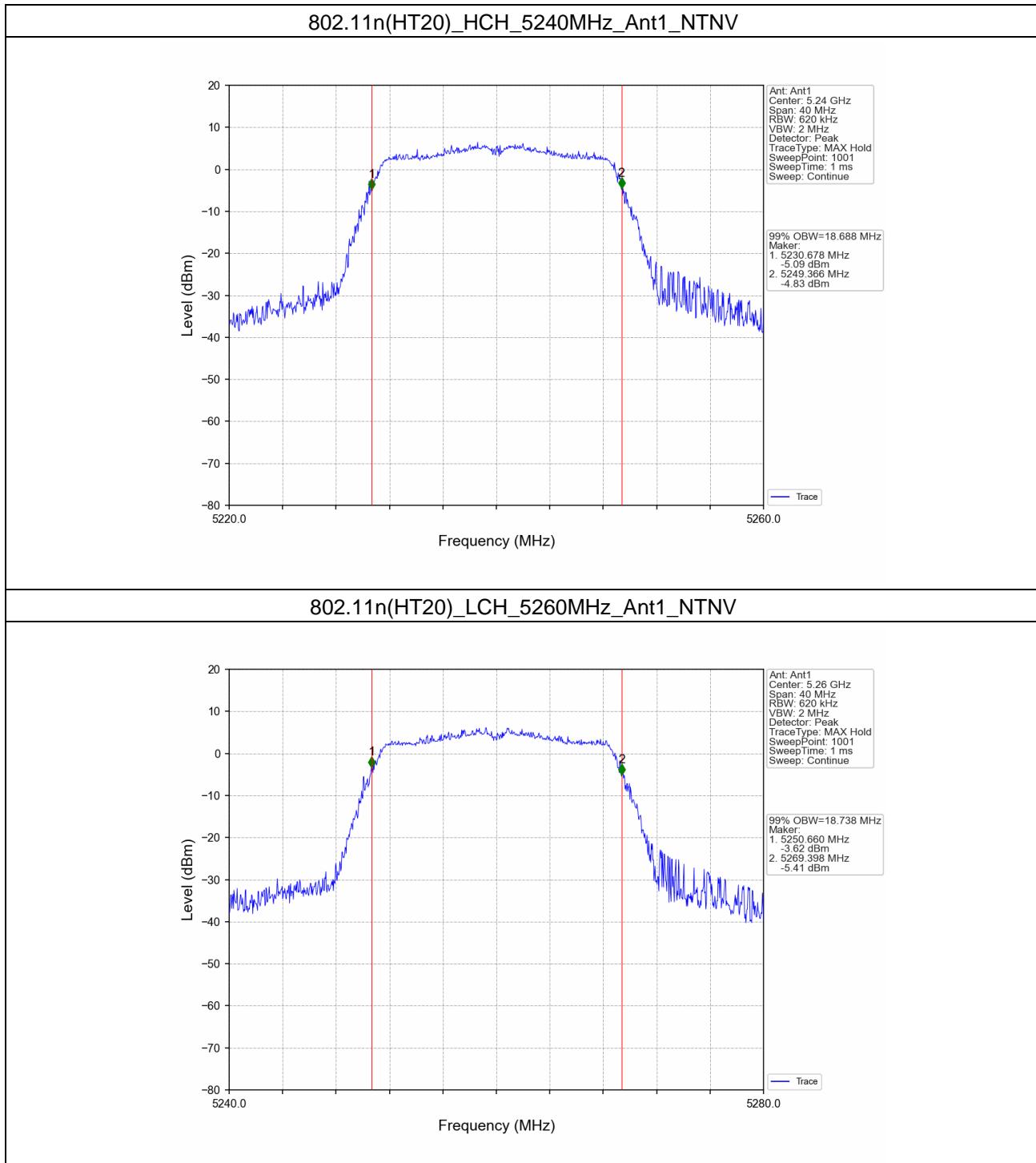




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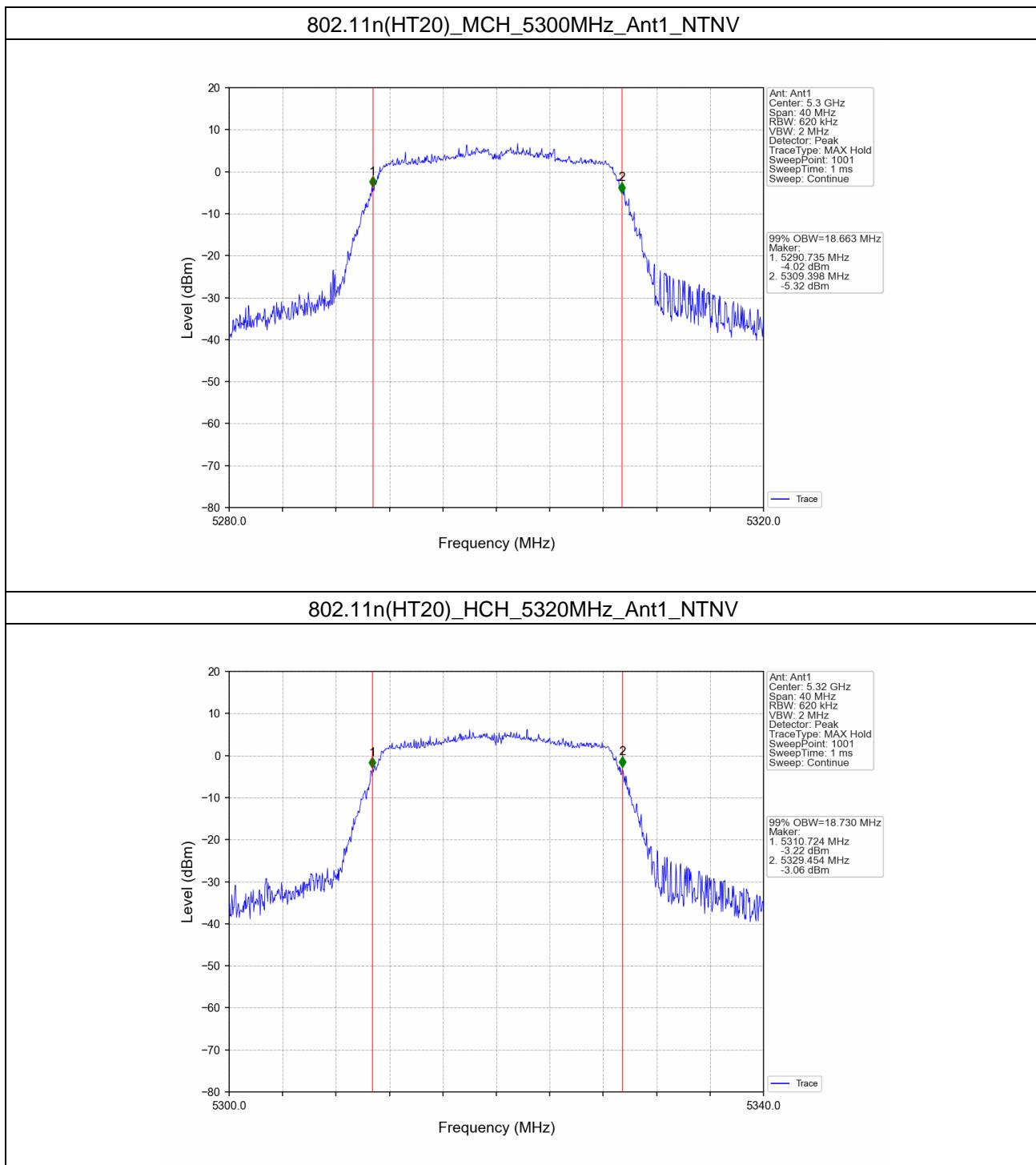




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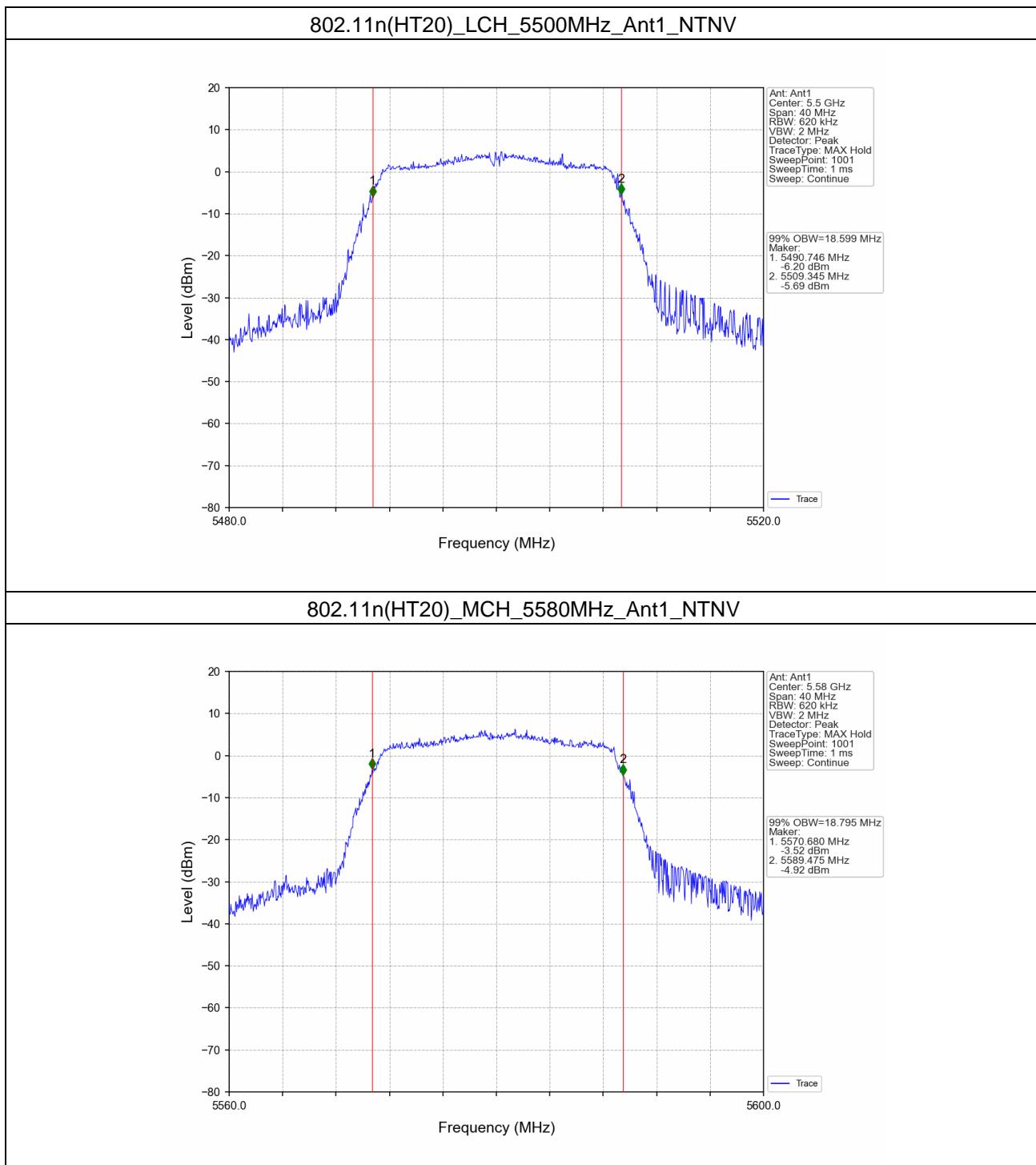




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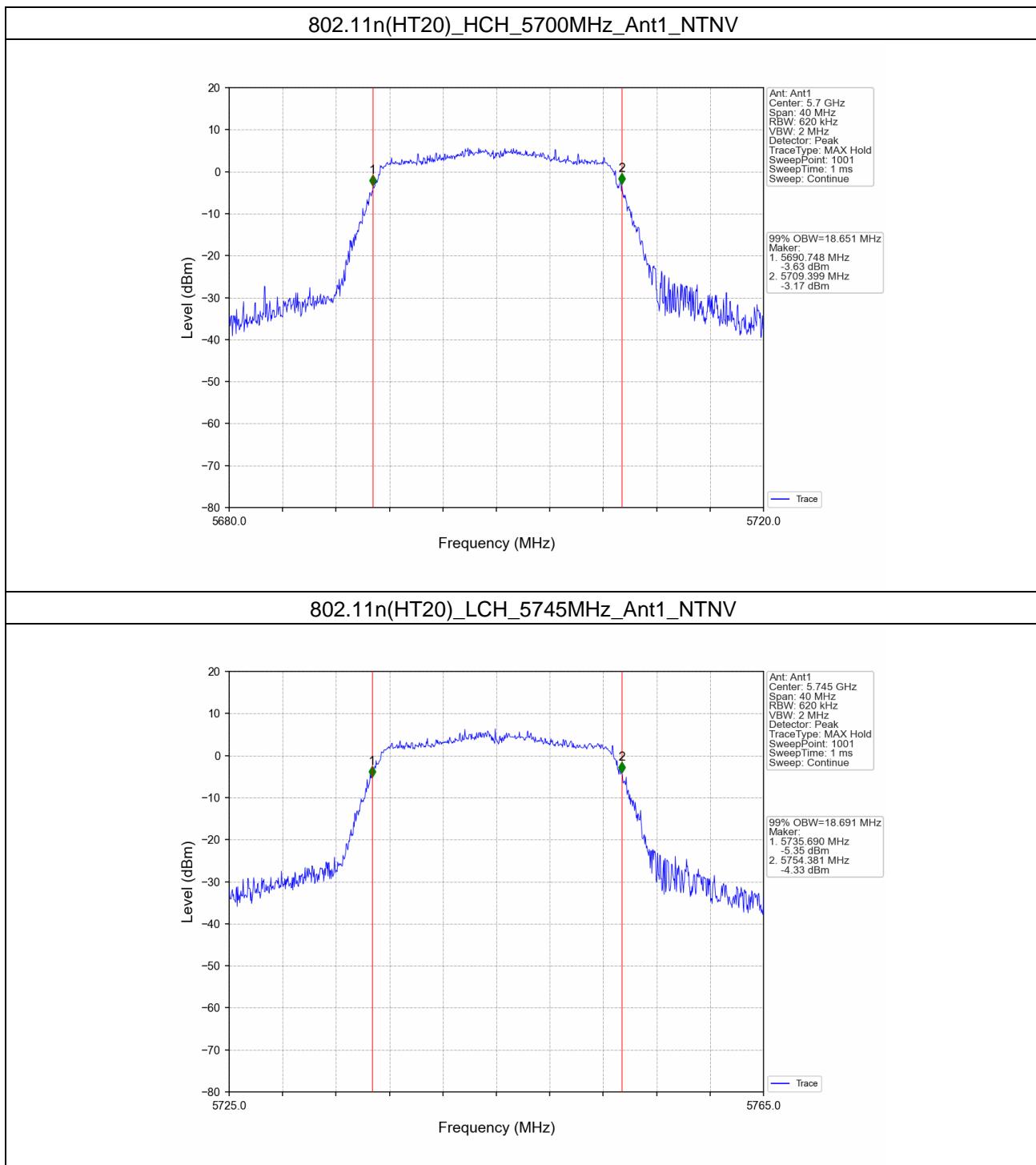
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