

Appendix -

Test Data and Result for report

GZCR250400053601 (A)

(For VHF: 150.05-173.4MHz)



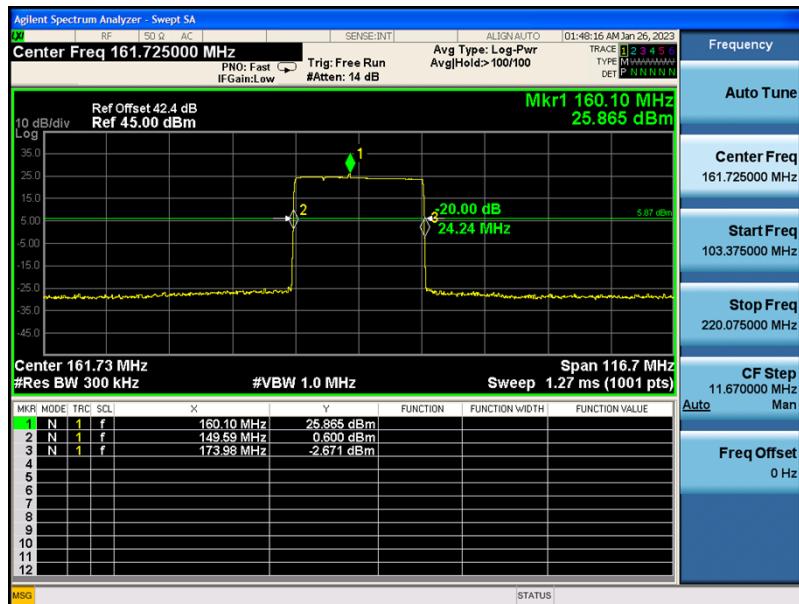
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1 Out-of-band rejection

Out-of-band rejection

DL



1. The peak of the frequency response f0 is 160.1MHz.
2. The frequency point f0 with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
3. AGC threshold level was measured as below:

Test Path	Test Signal	Test Channel	AGC threshold level
DL	FM	MCH	-64.80dBm
	DMR	MCH	-64.80dBm
	C4FM	MCH	-64.80dBm
	H-DQPSK	MCH	-64.80dBm
	TETRA	MCH	-64.85dBm

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2 Input-versus-output signal comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	DMR	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
UL	C4FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	H-DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.

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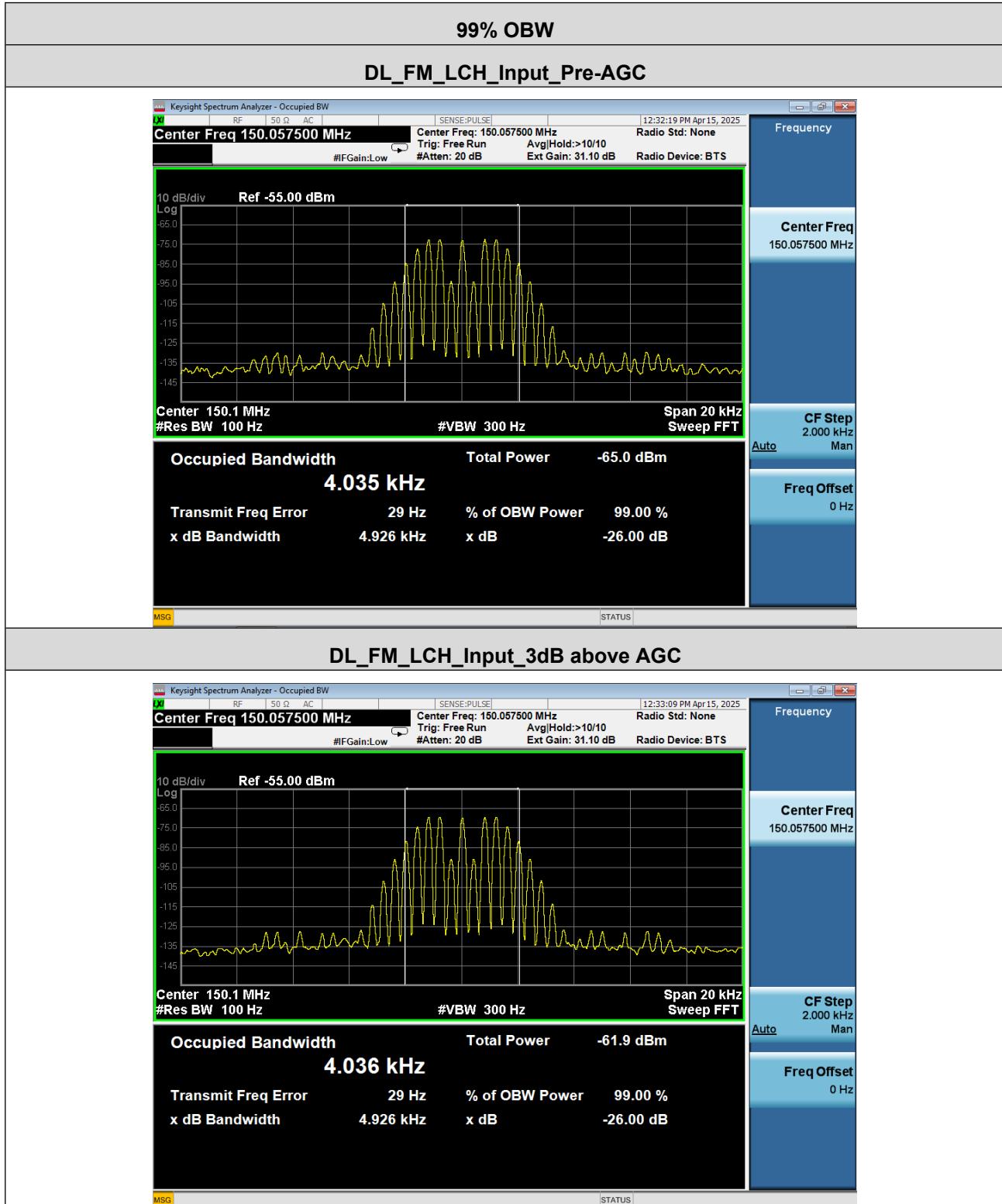
Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	TETRA	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:
Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.



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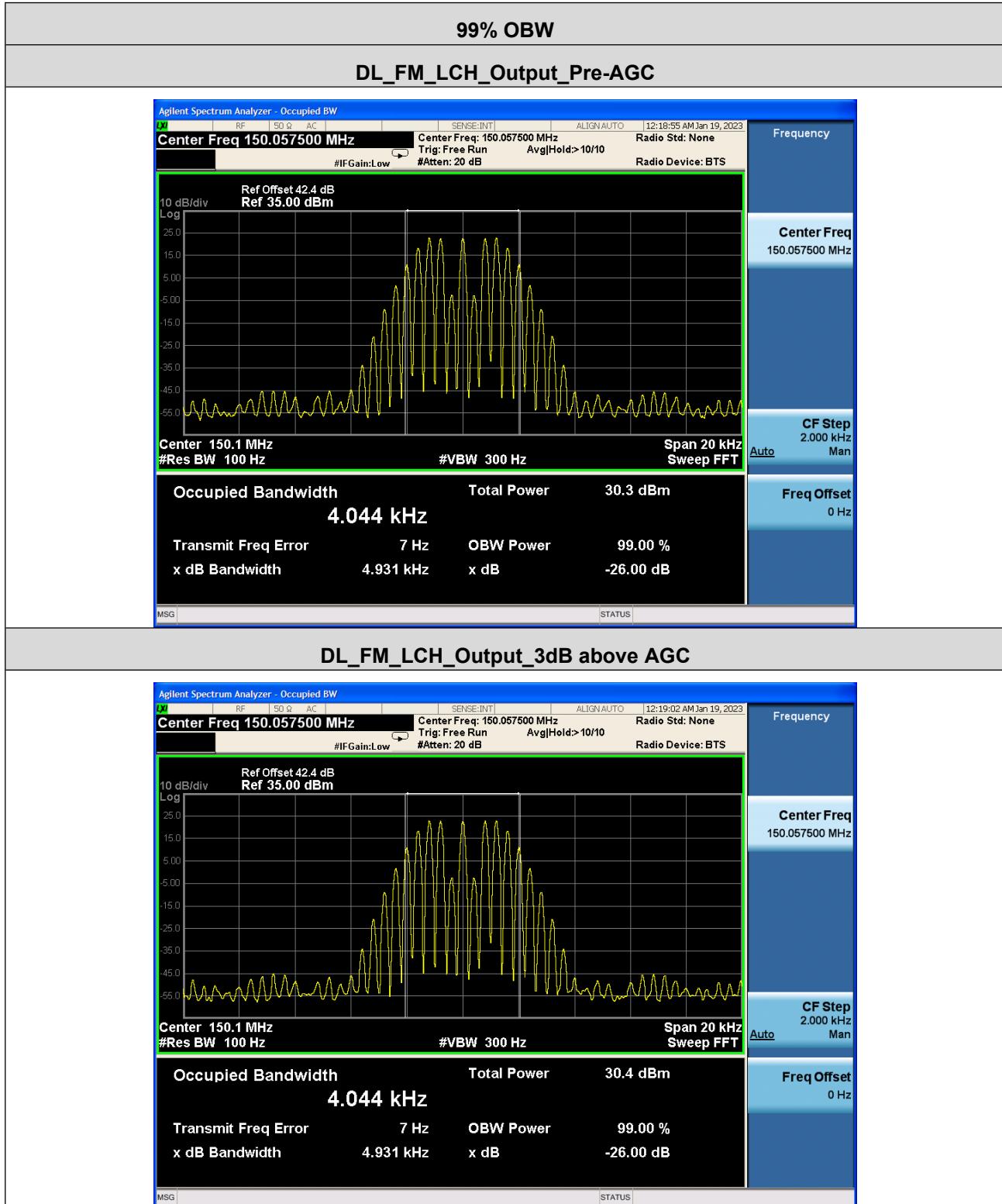
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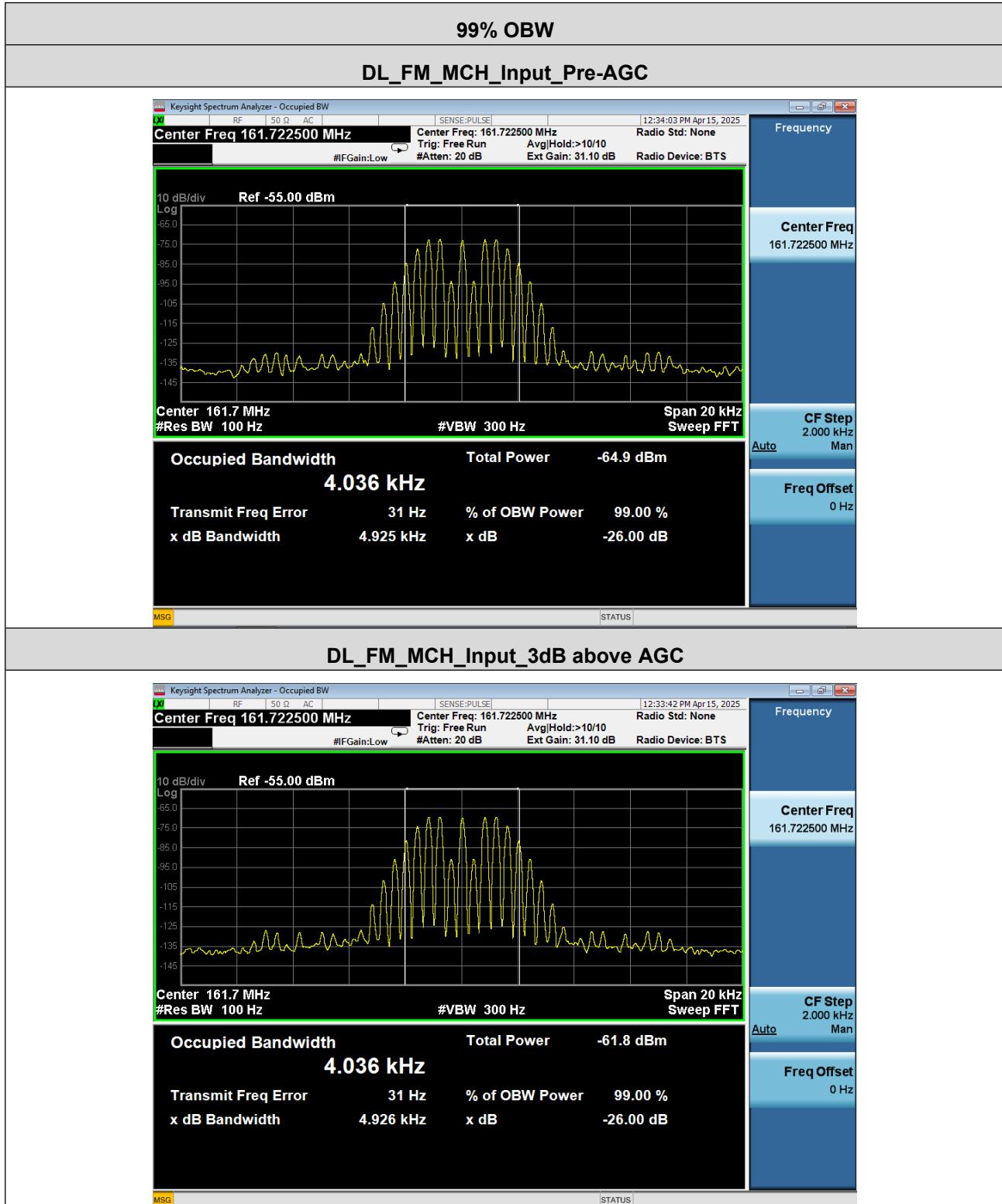
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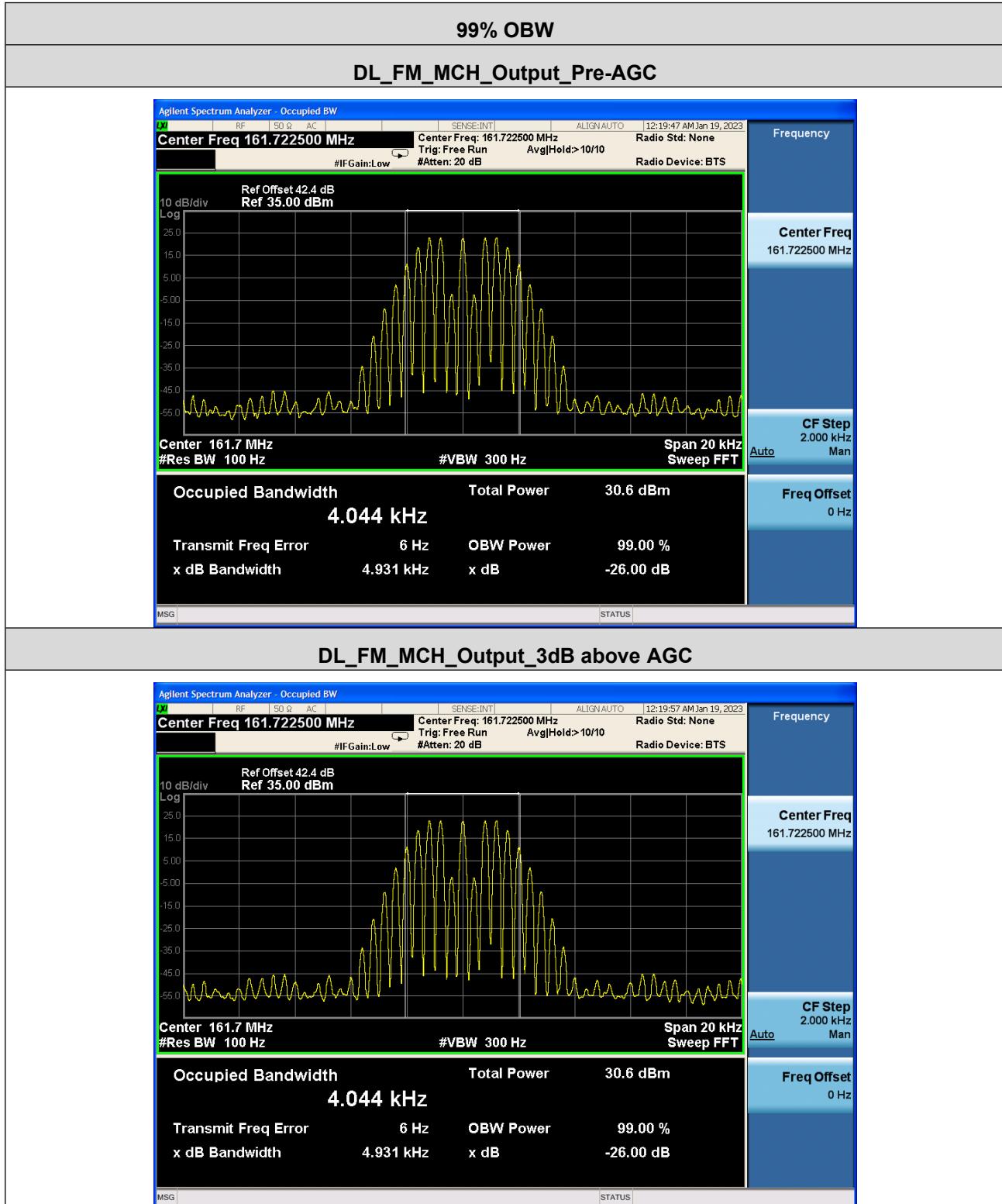
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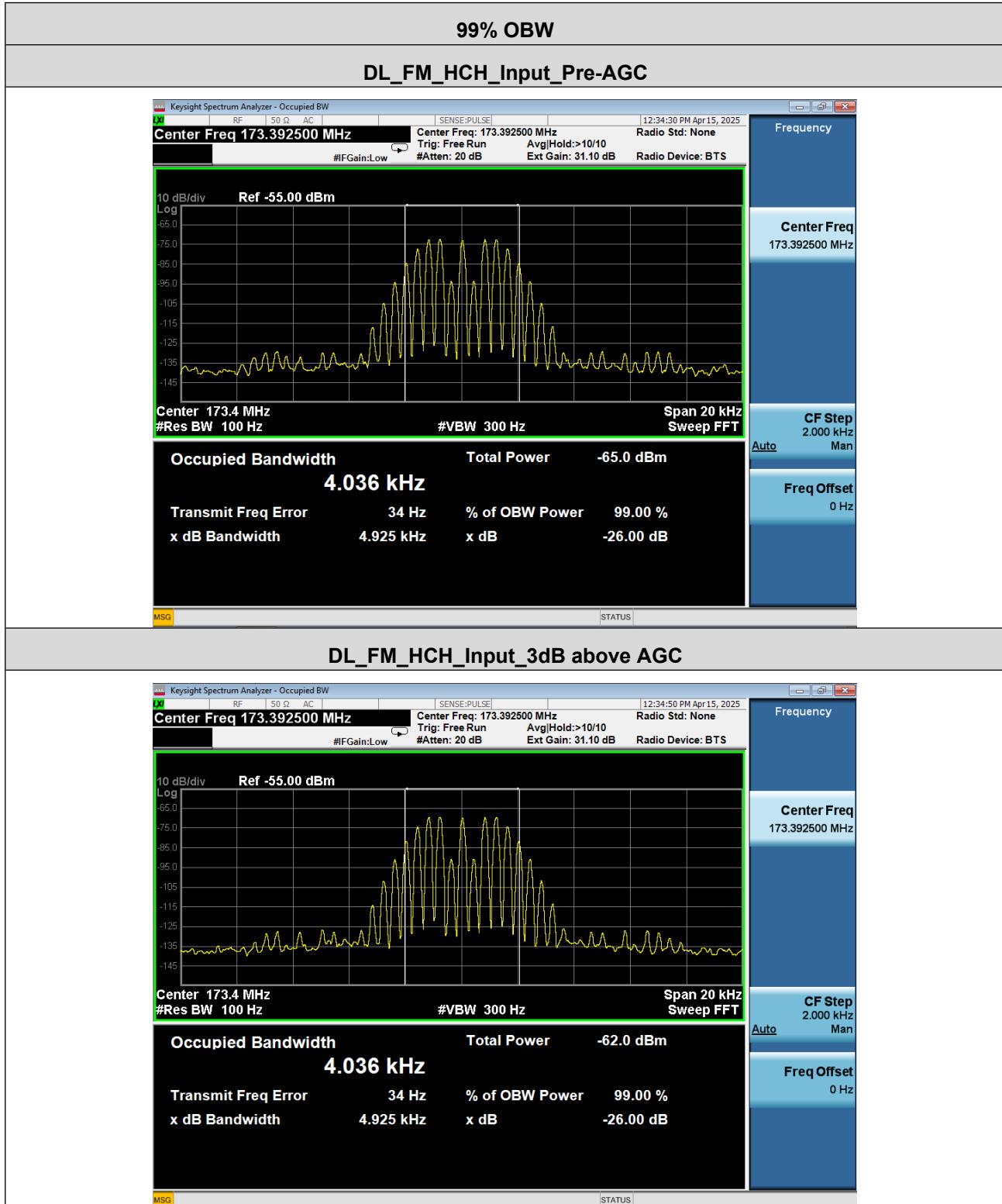
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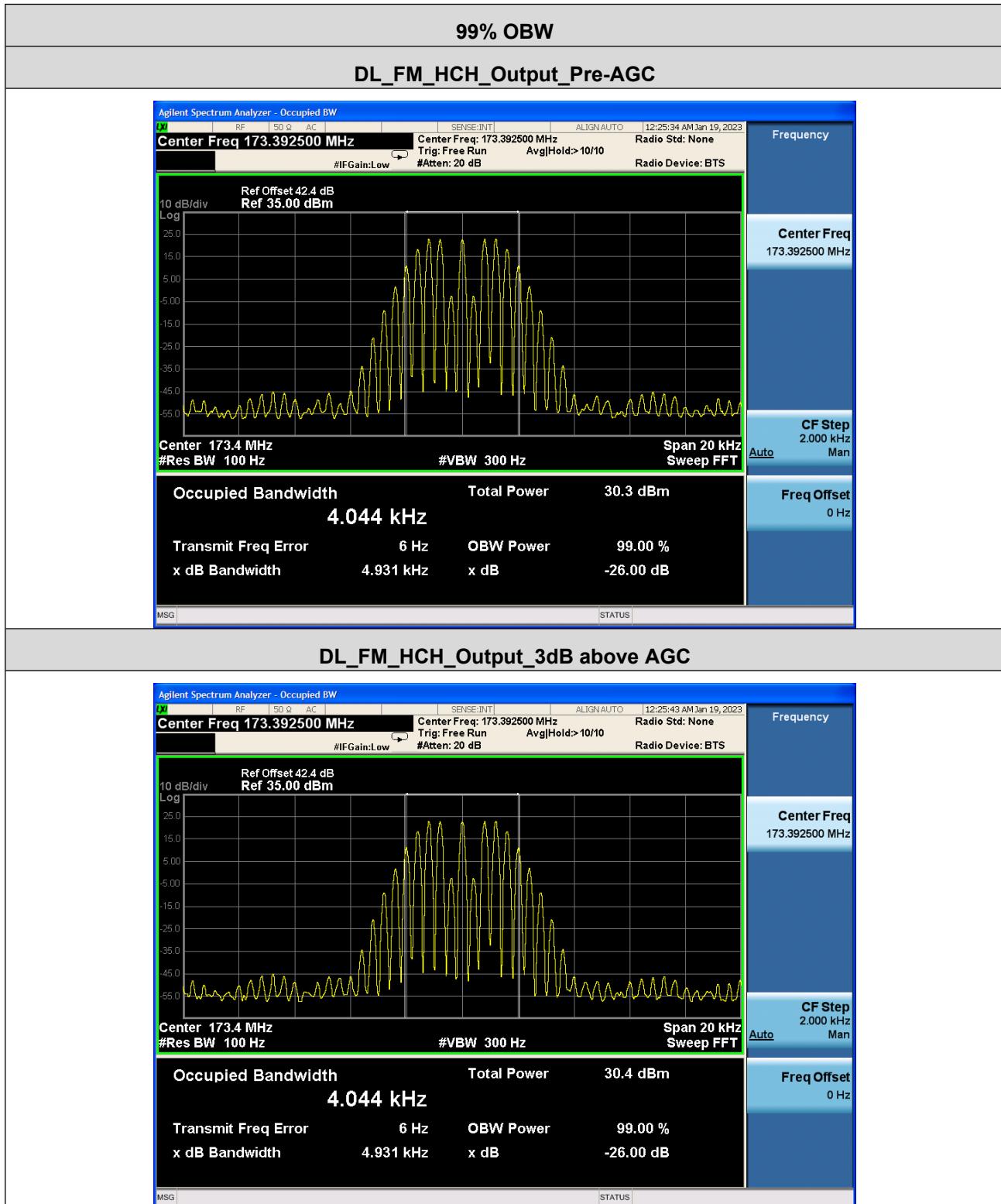
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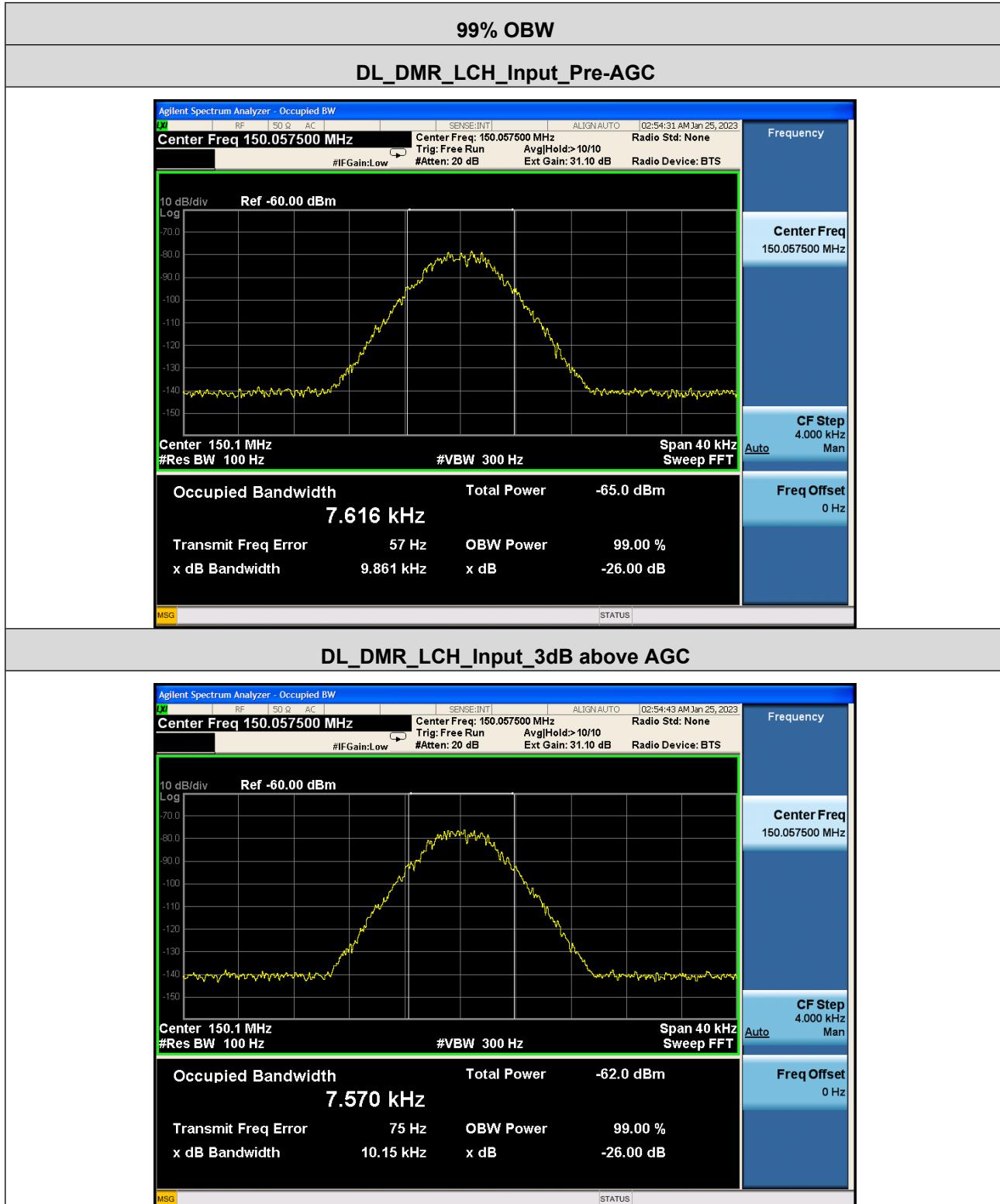




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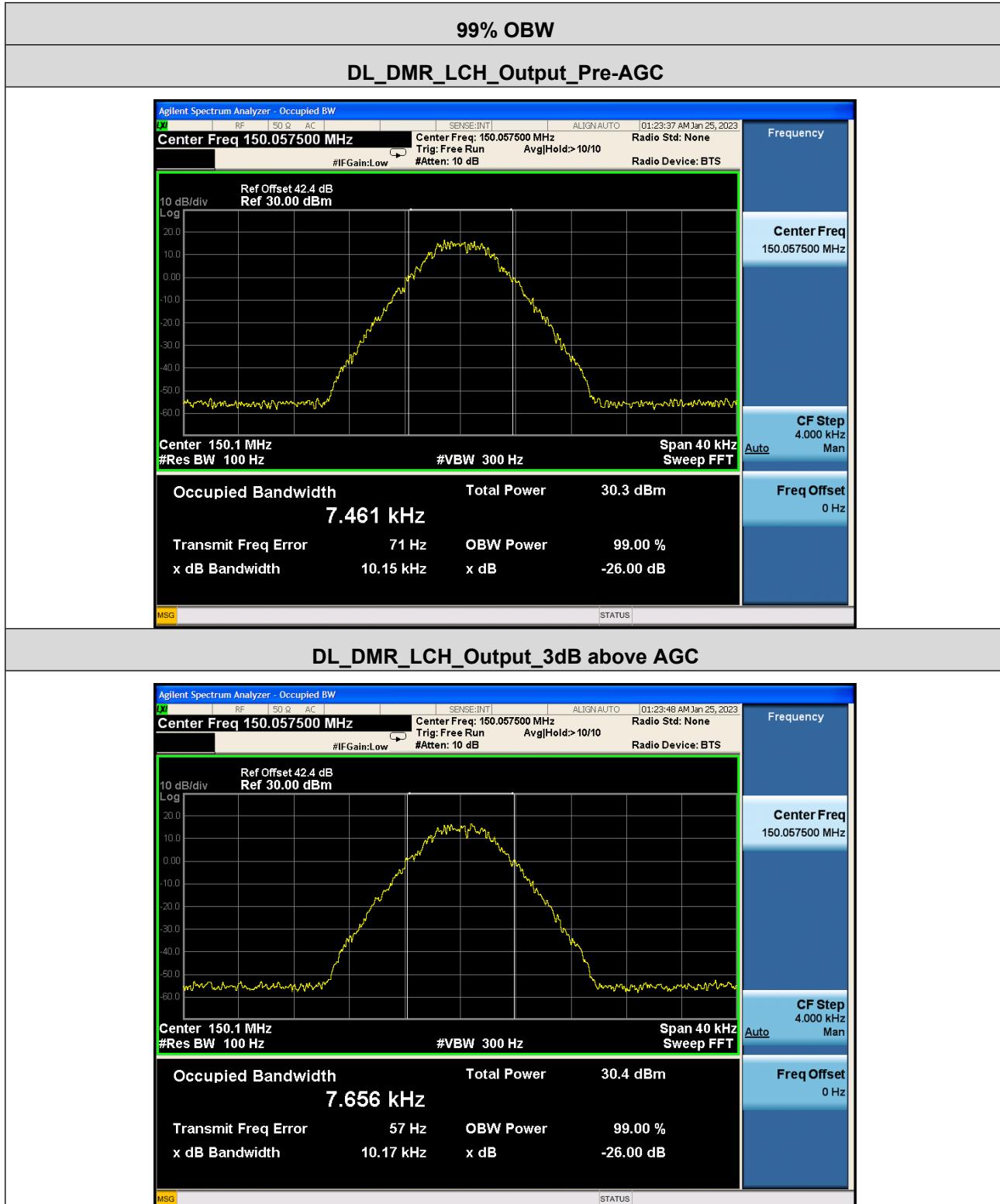




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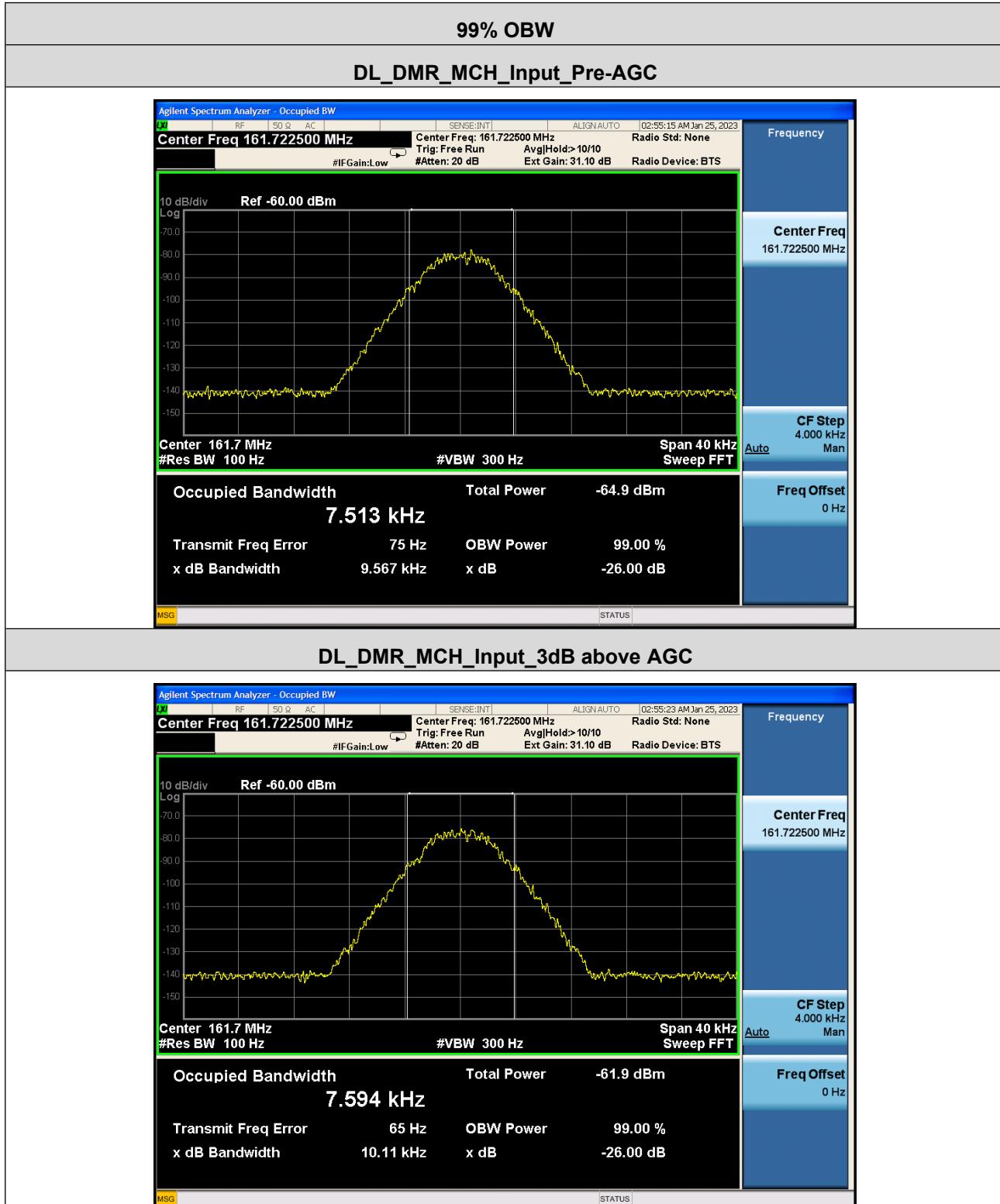
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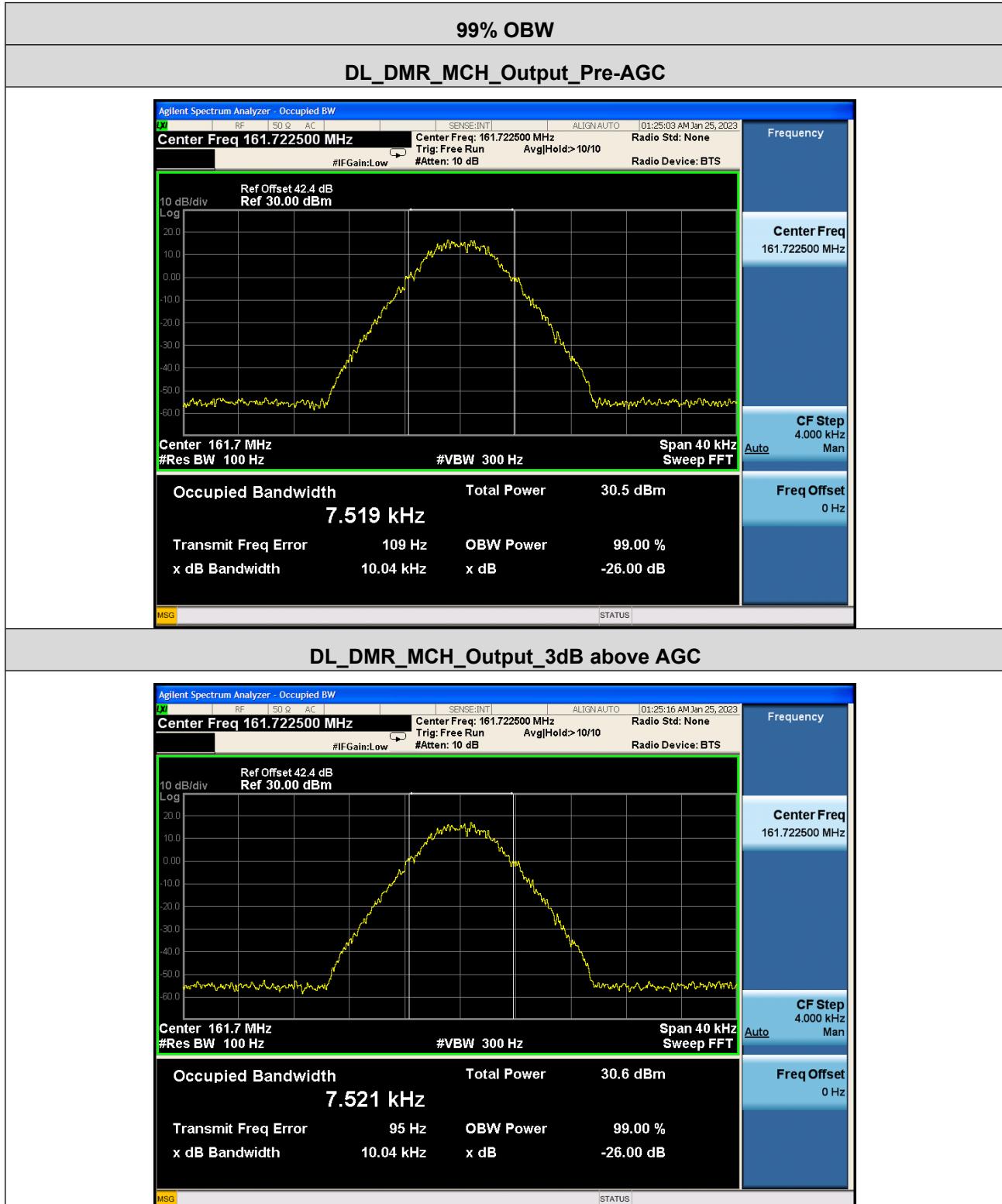
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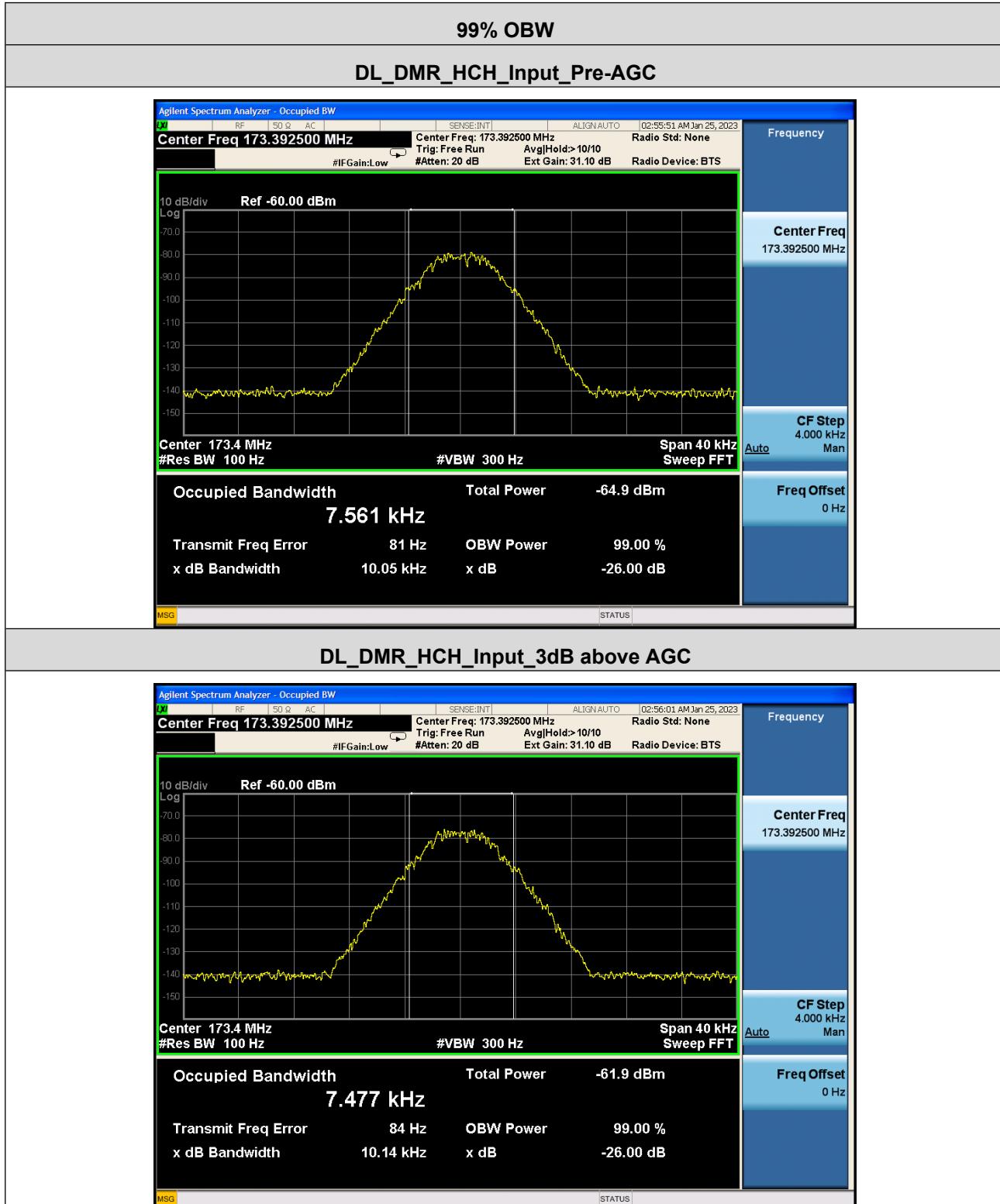




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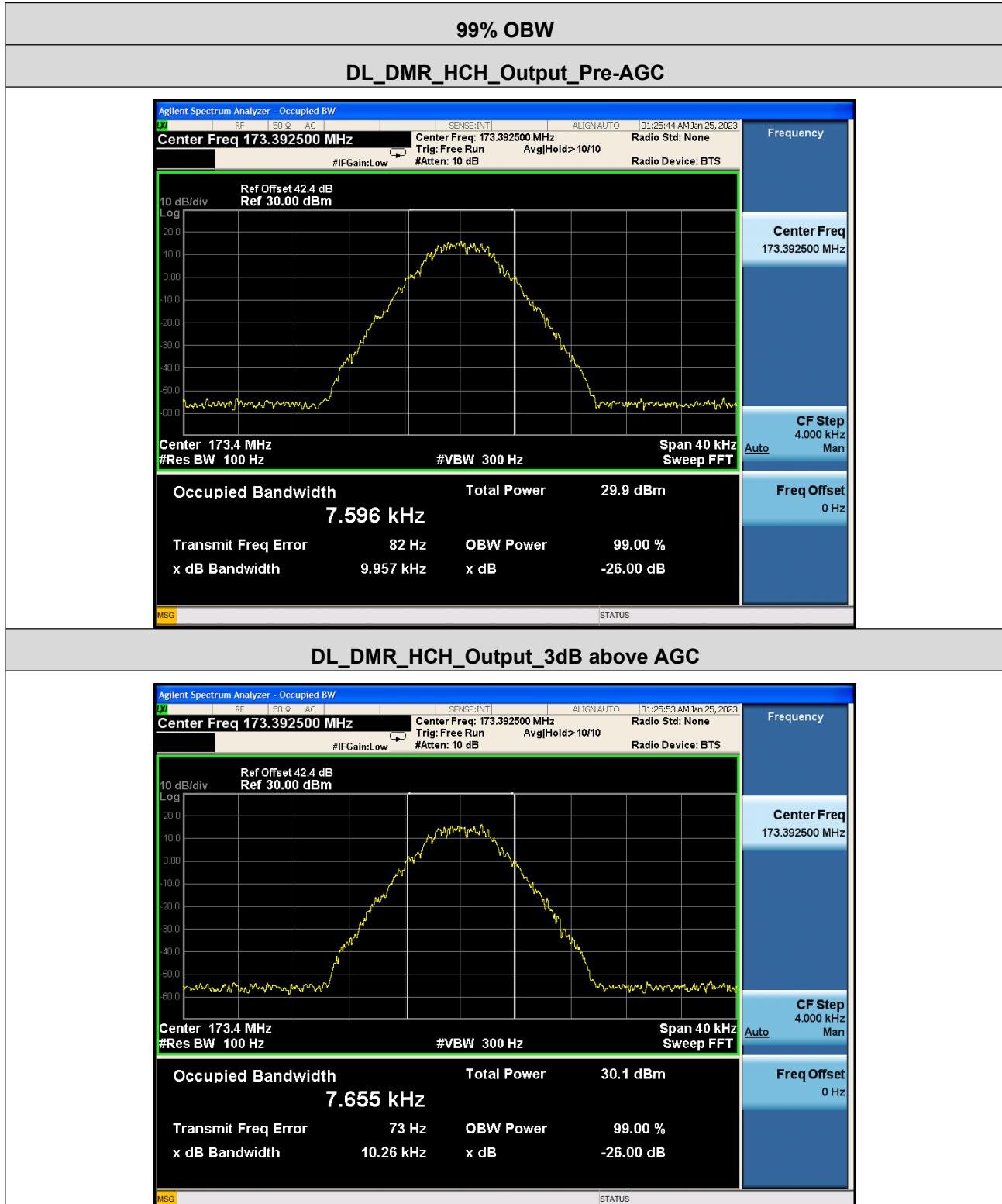




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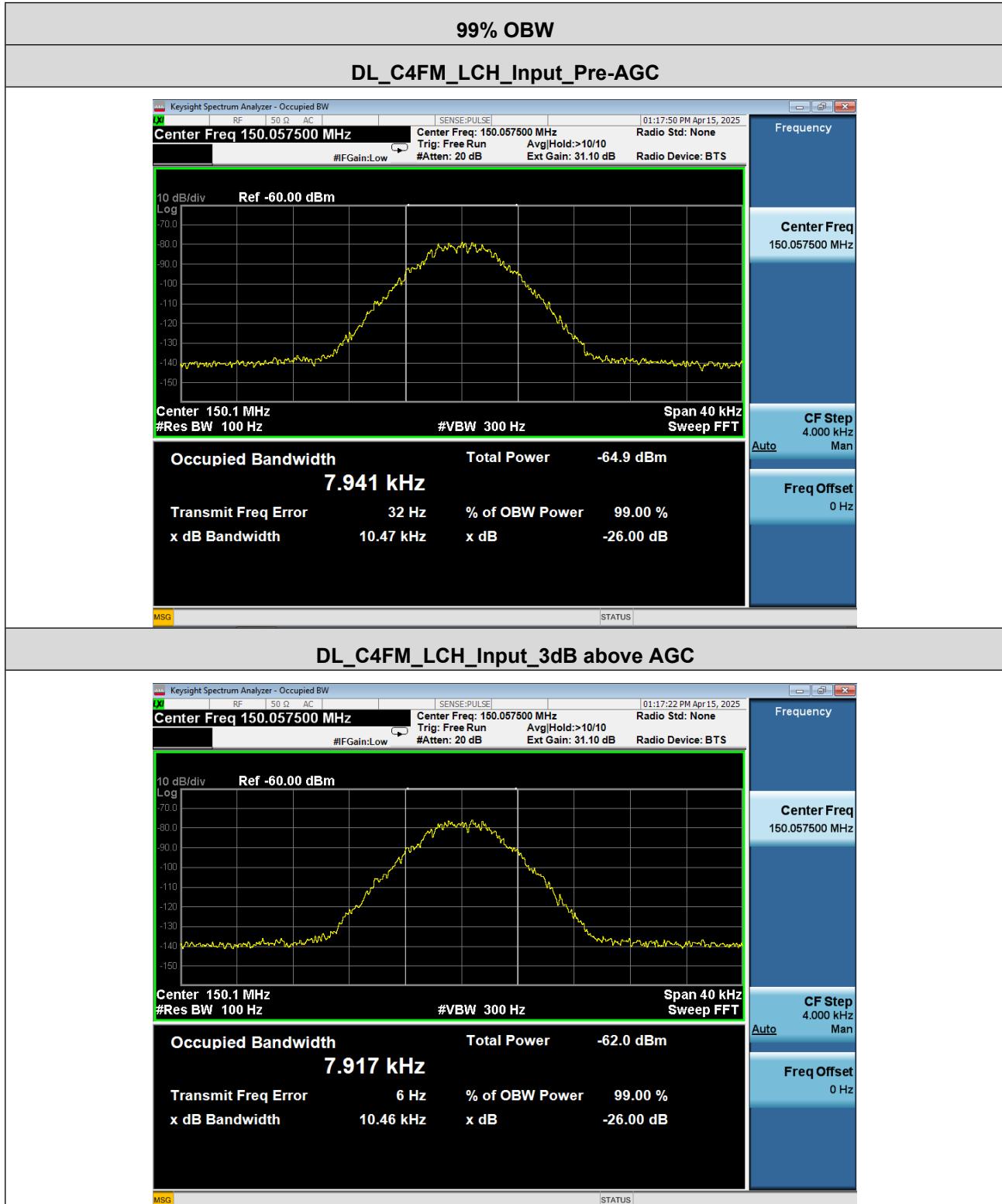




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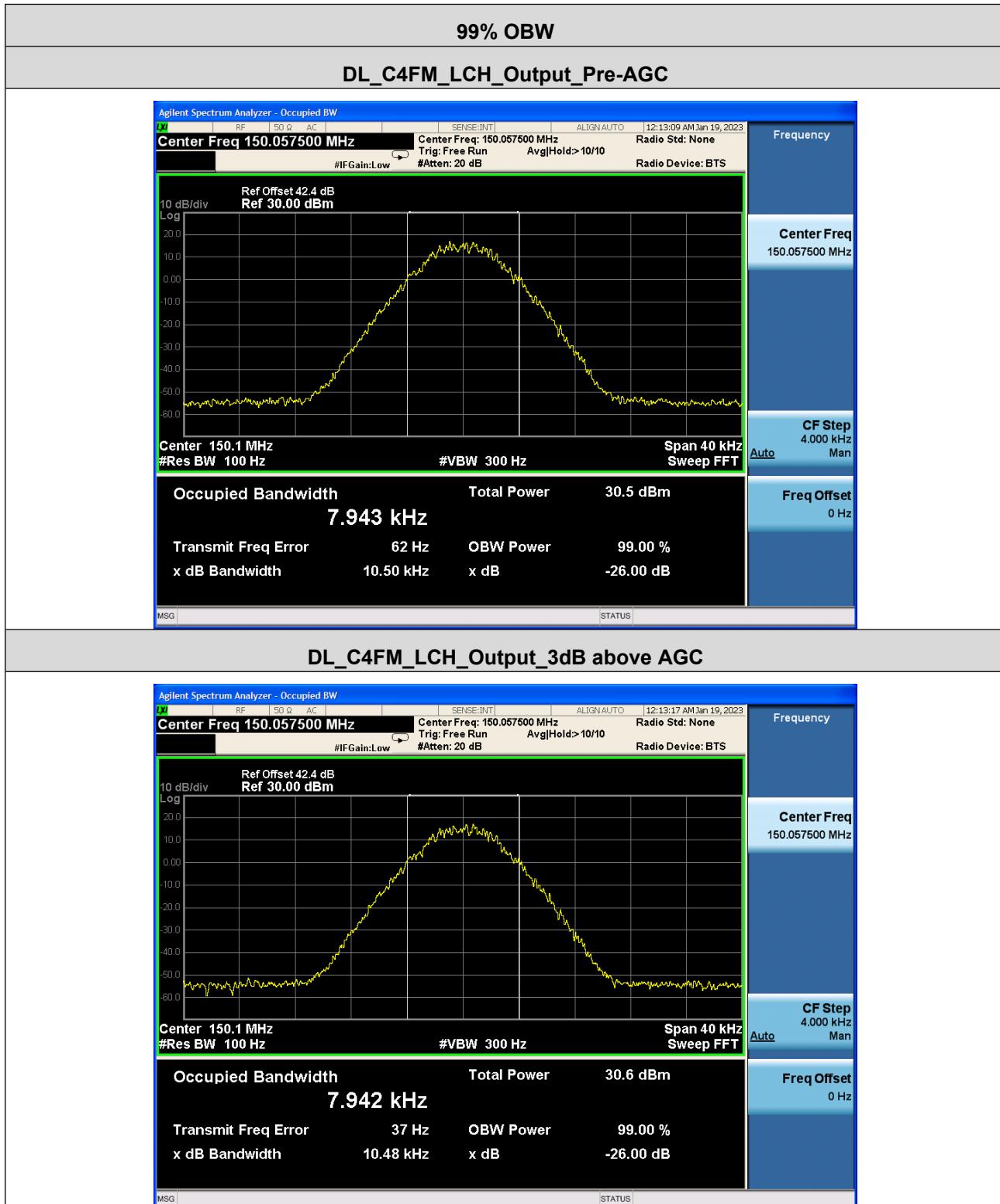




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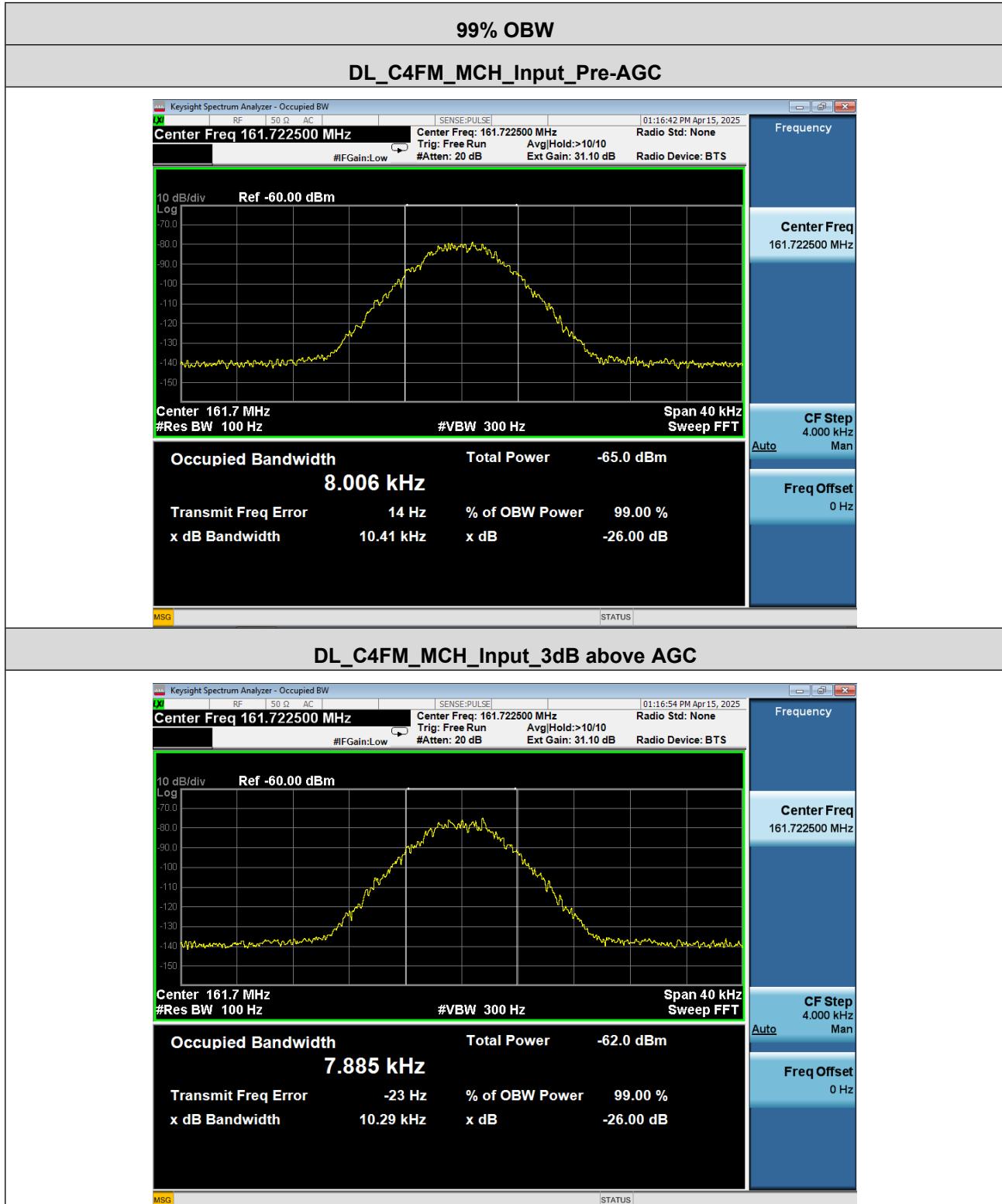




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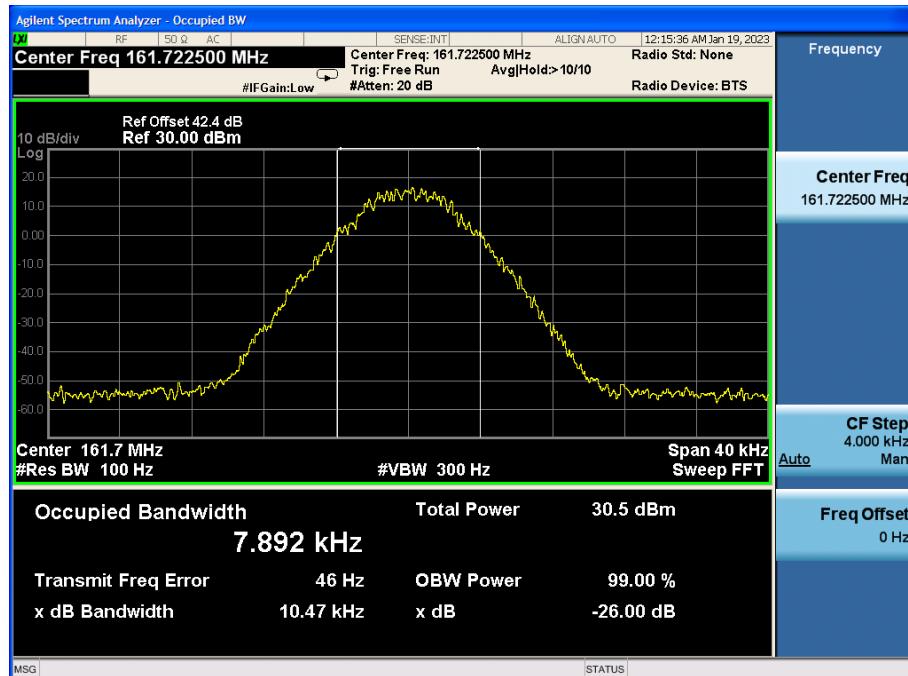
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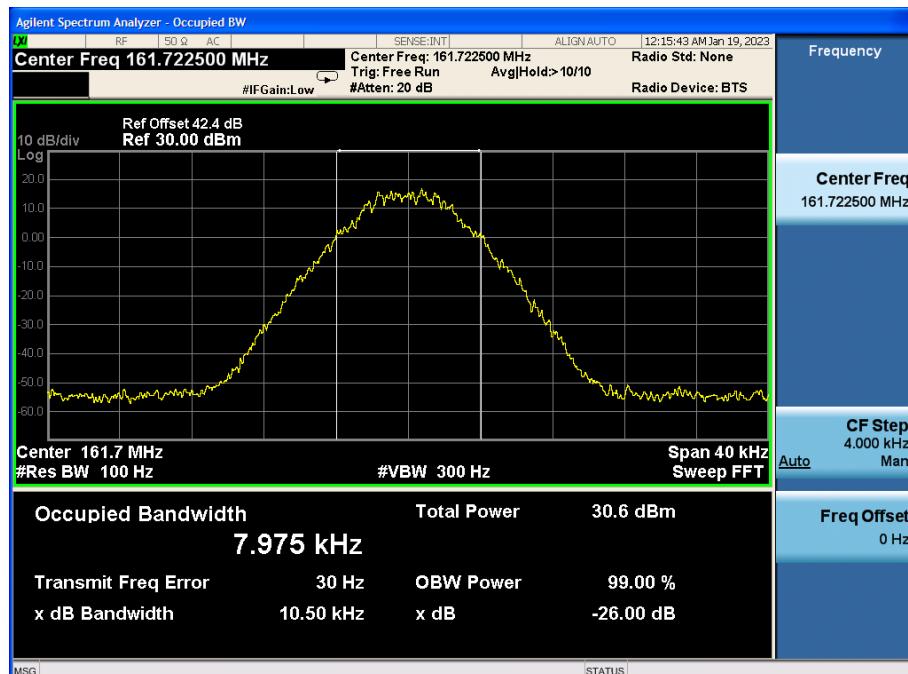


99% OBW

DL_C4FM_MCH_Output_Pre-AGC



DL_C4FM_MCH_Output_3dB above AGC



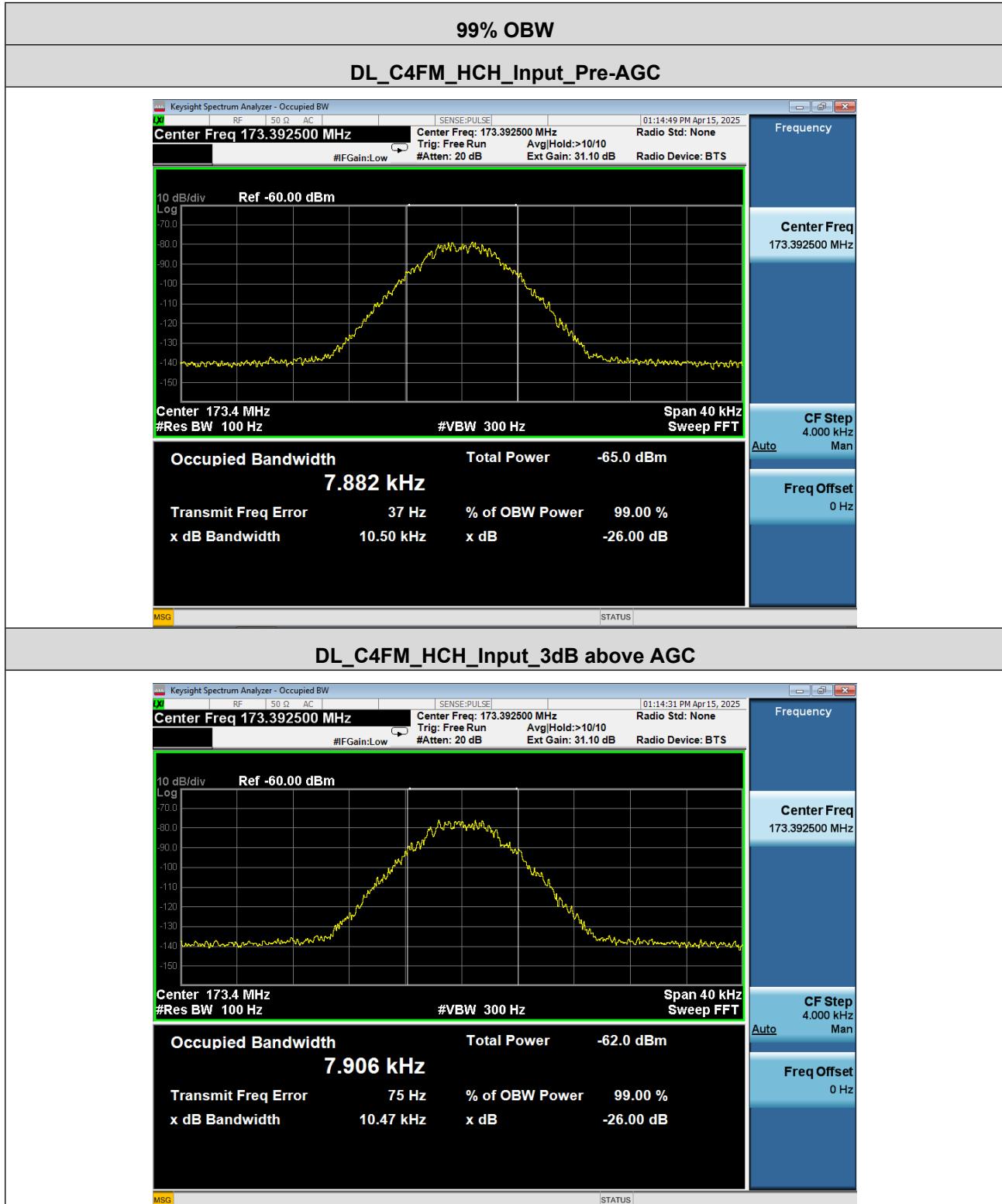
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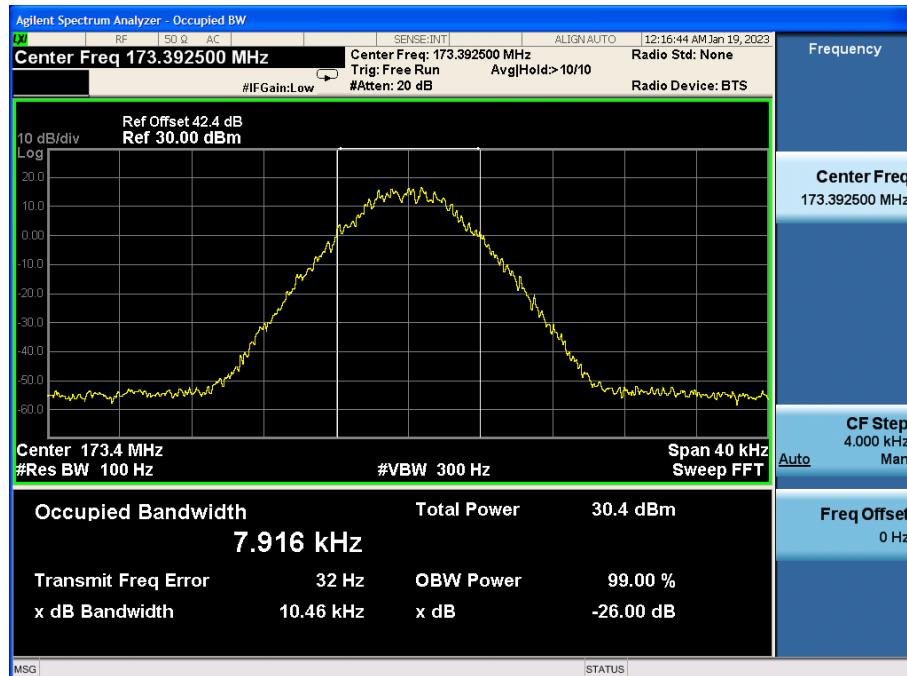
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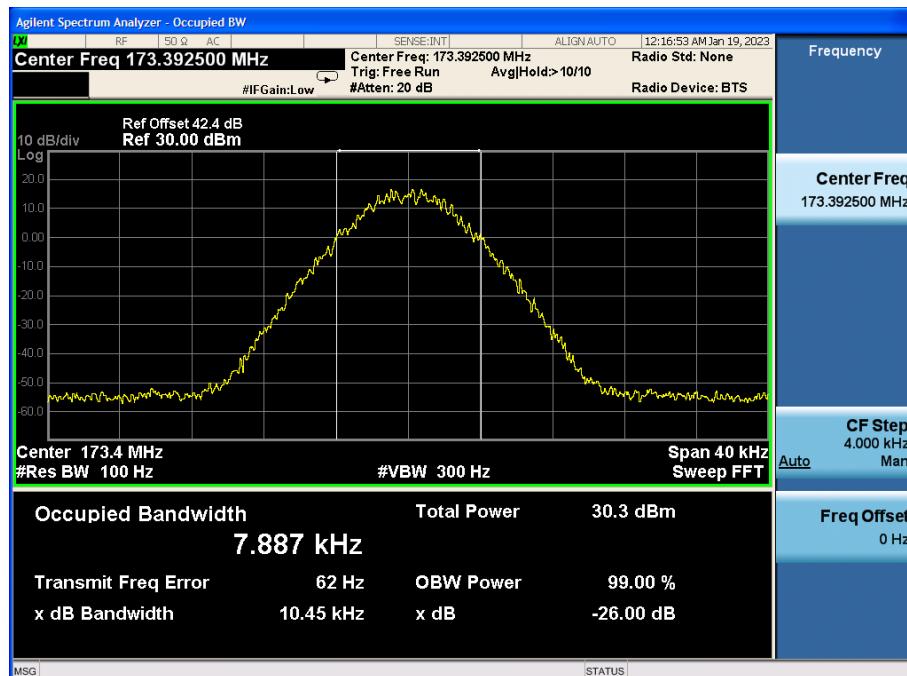


99% OBW

DL_C4FM_HCH_Output_Pre-AGC



DL_C4FM_HCH_Output_3dB above AGC



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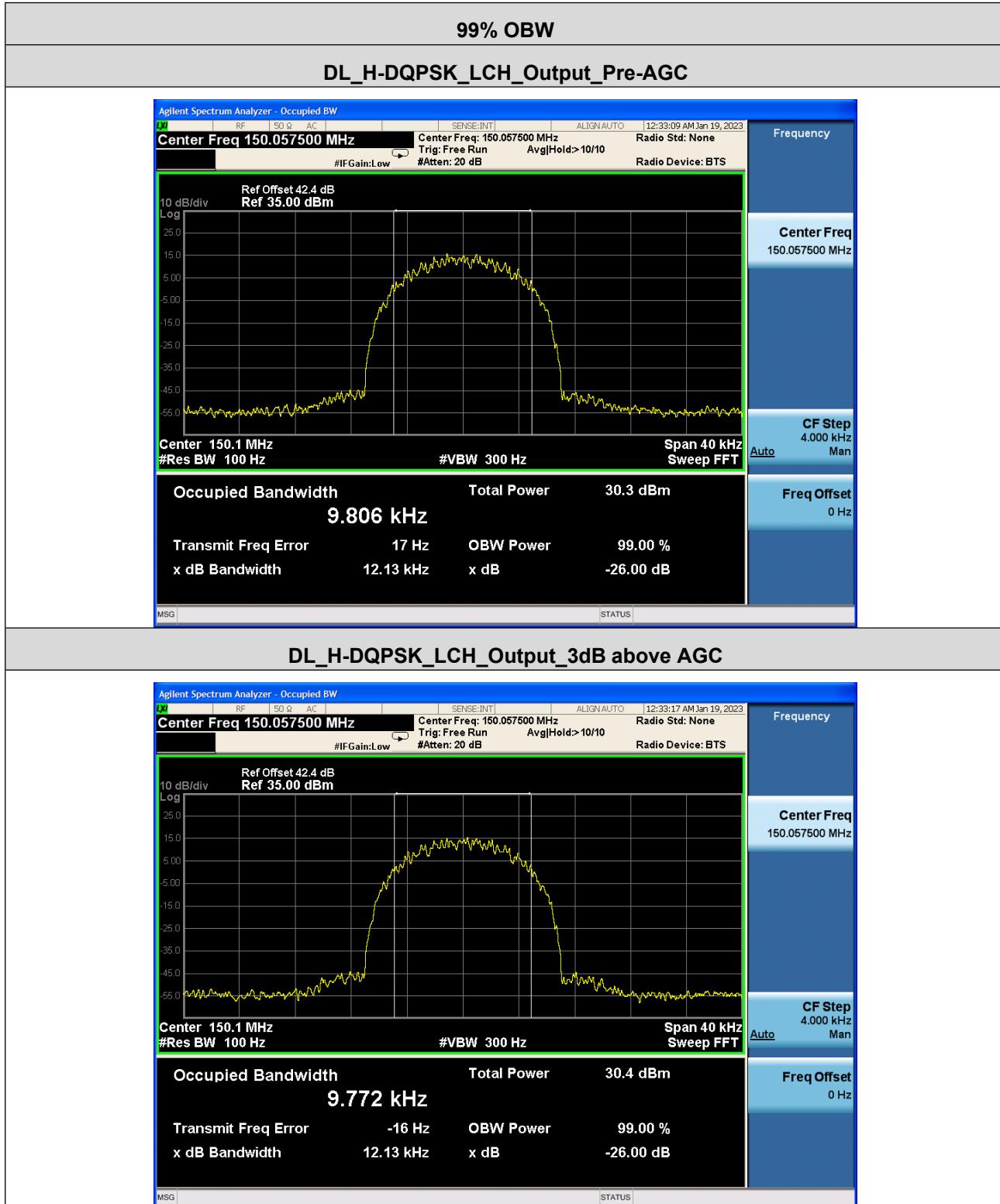
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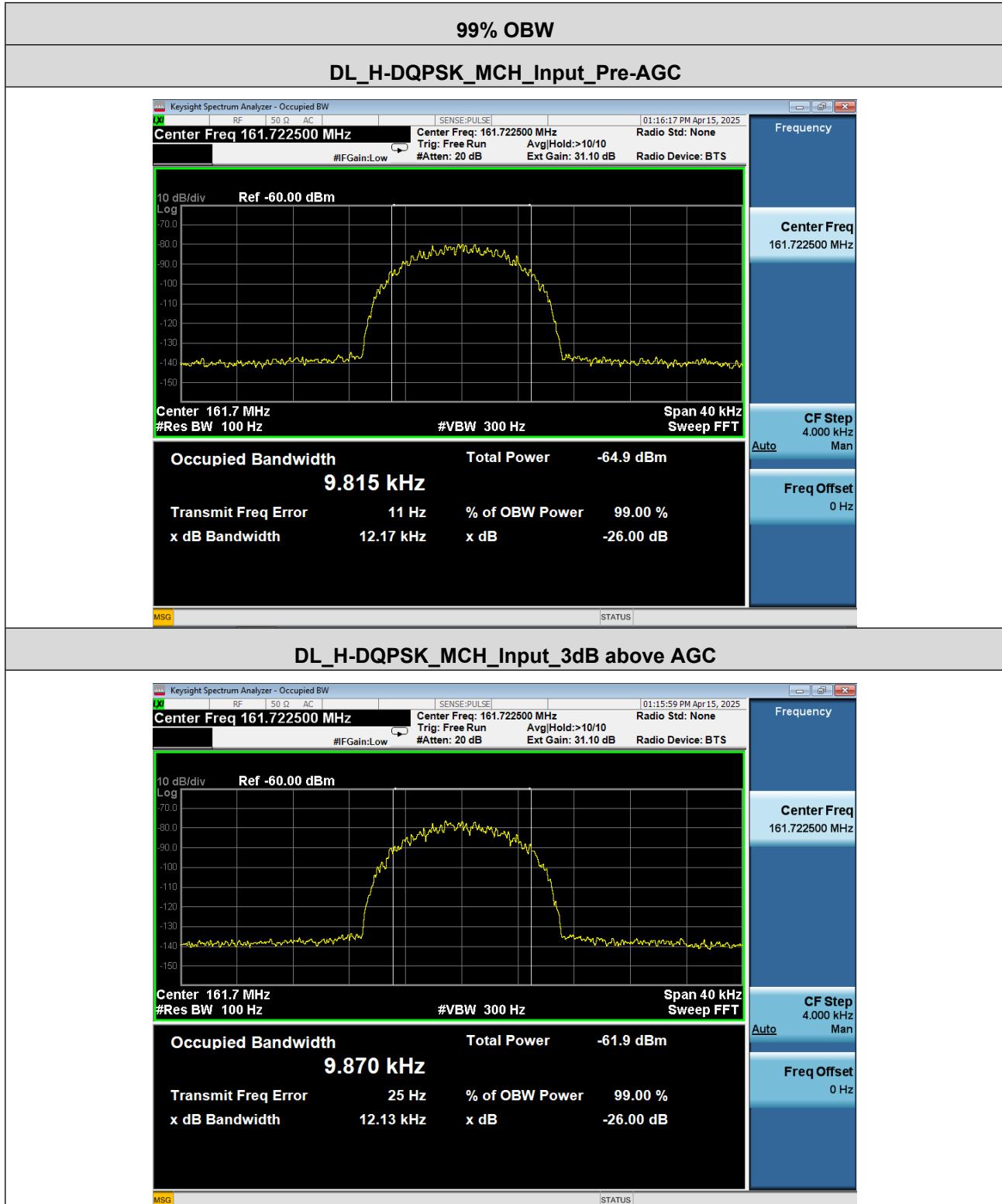




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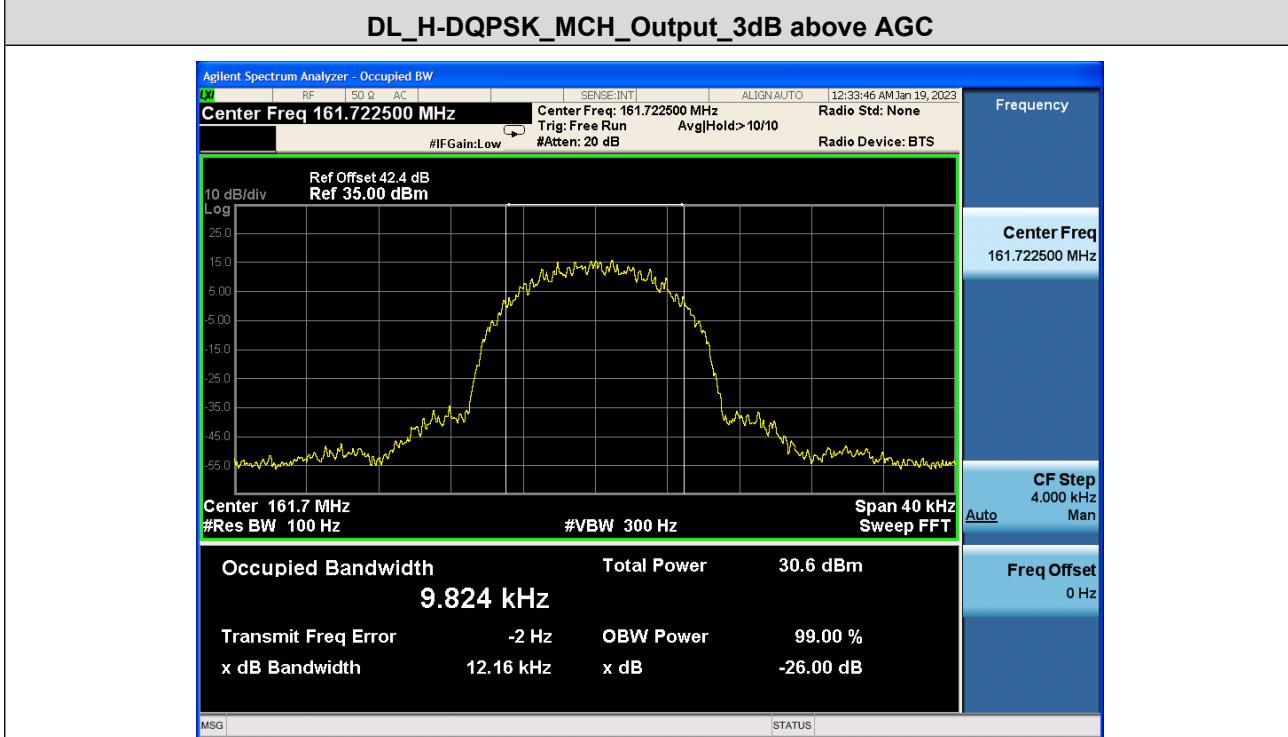
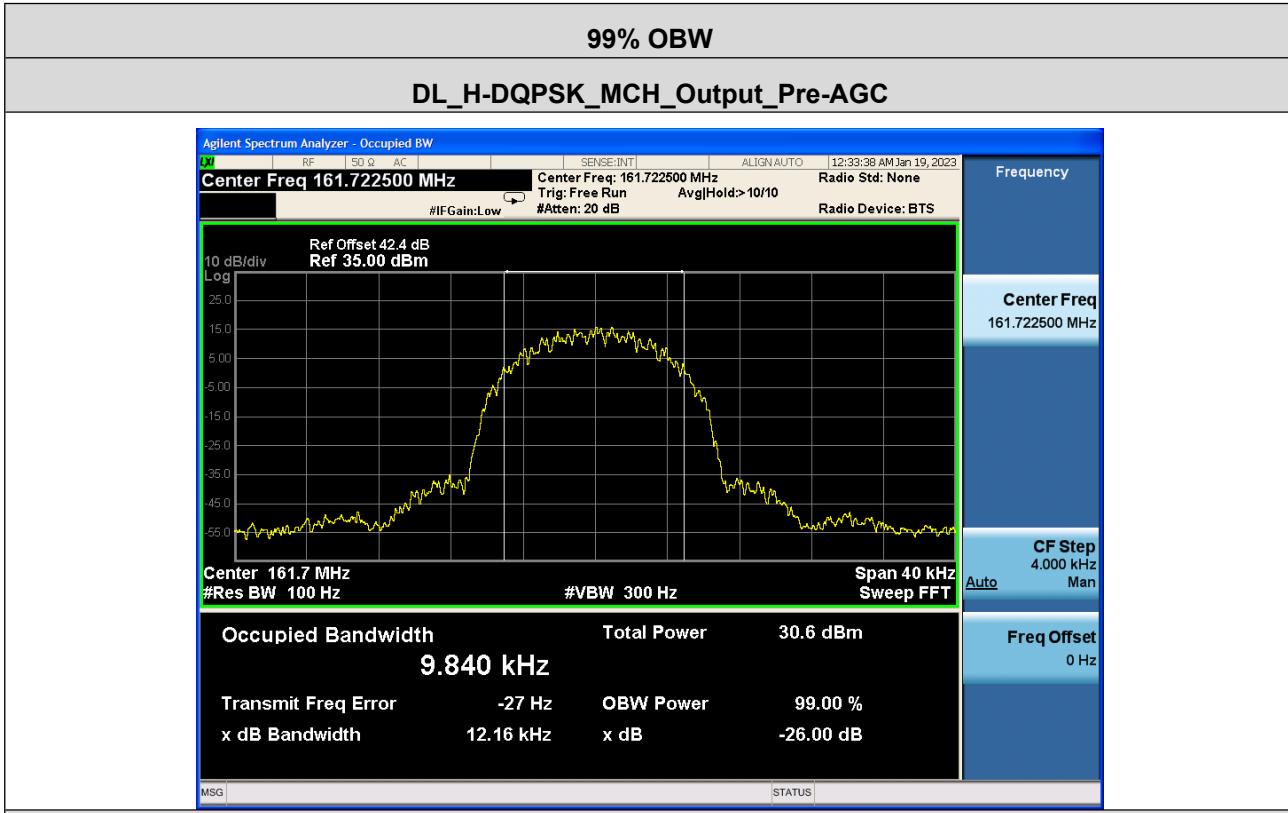




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sample(s) are retained for 30 days only.
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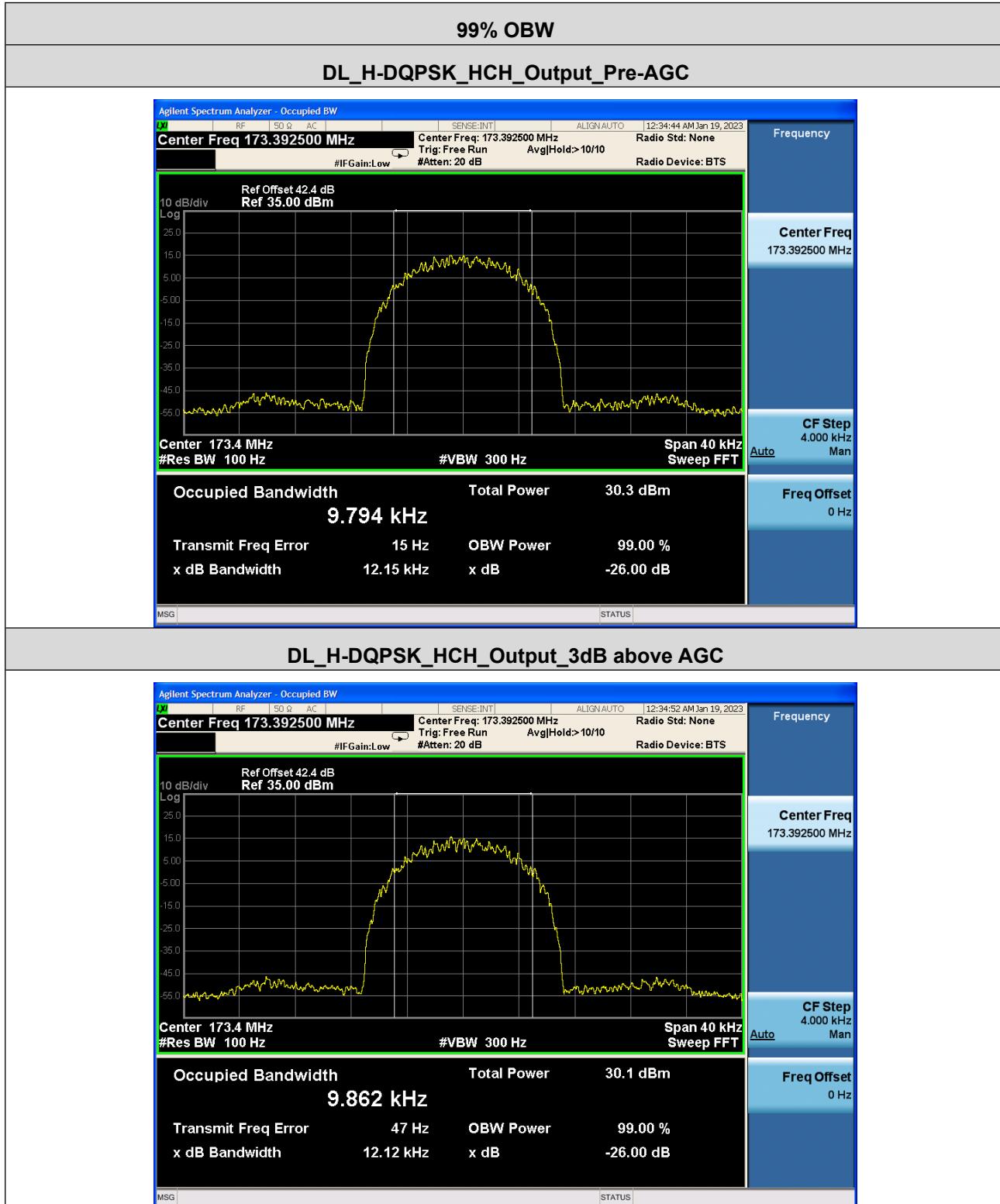
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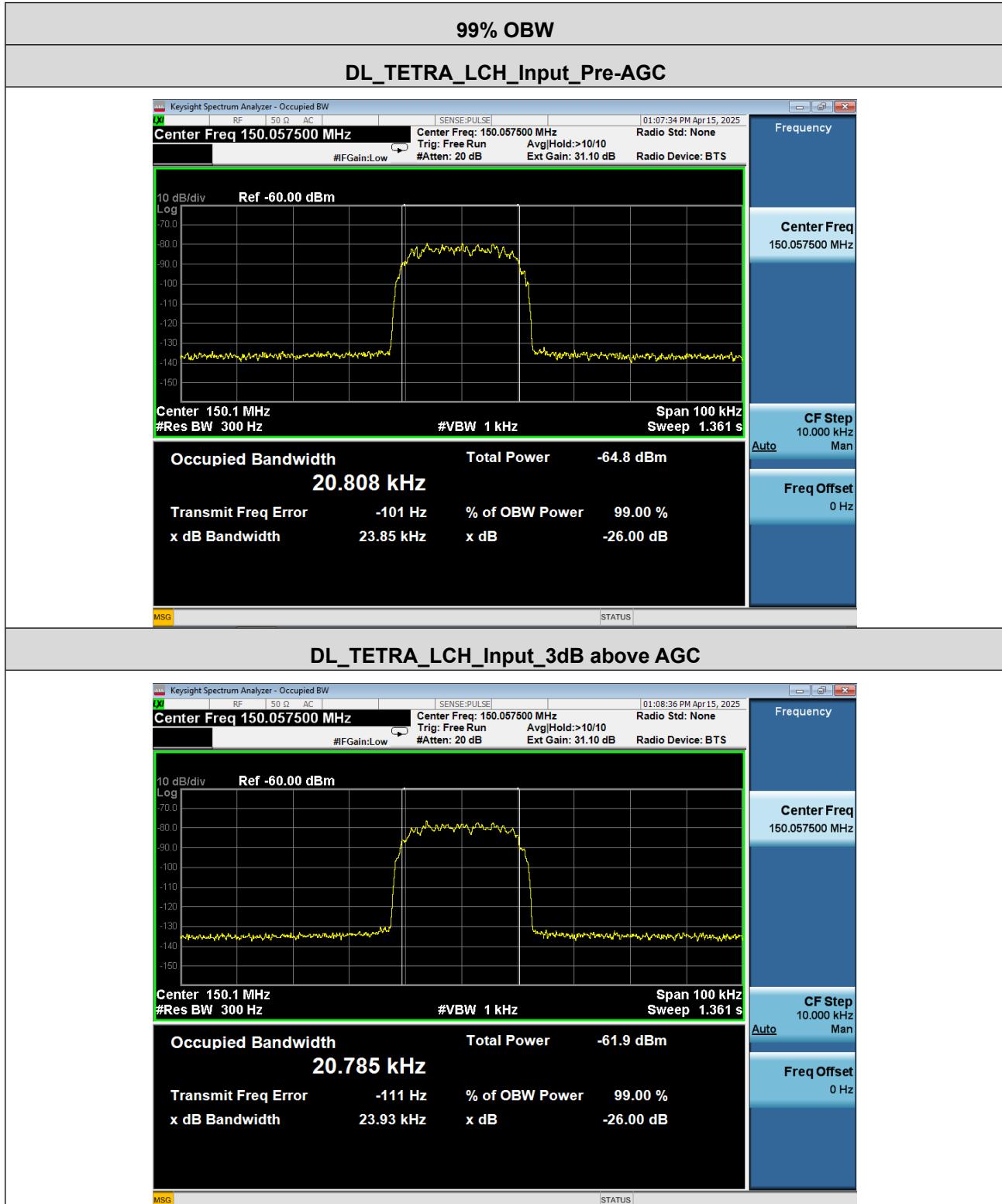




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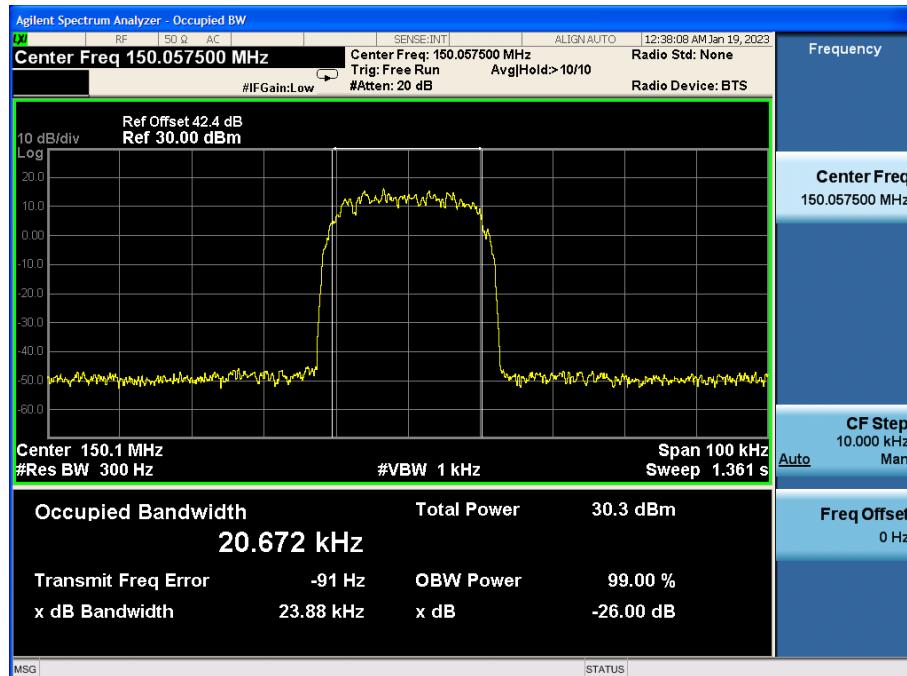
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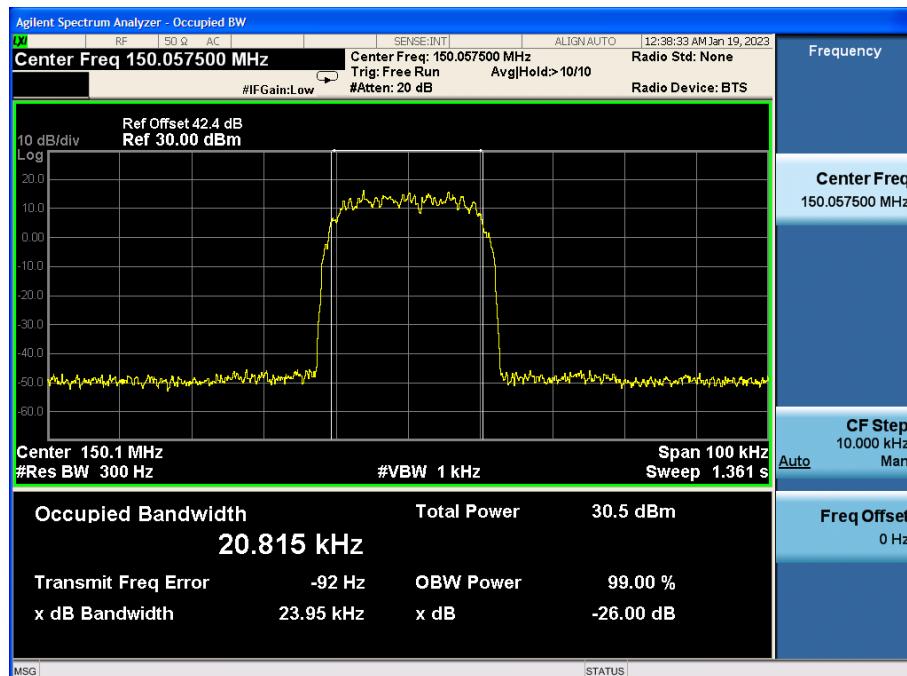


99% OBW

DL_TETRA_LCH_Output_Pre-AGC



DL_TETRA_LCH_Output_3dB above AGC



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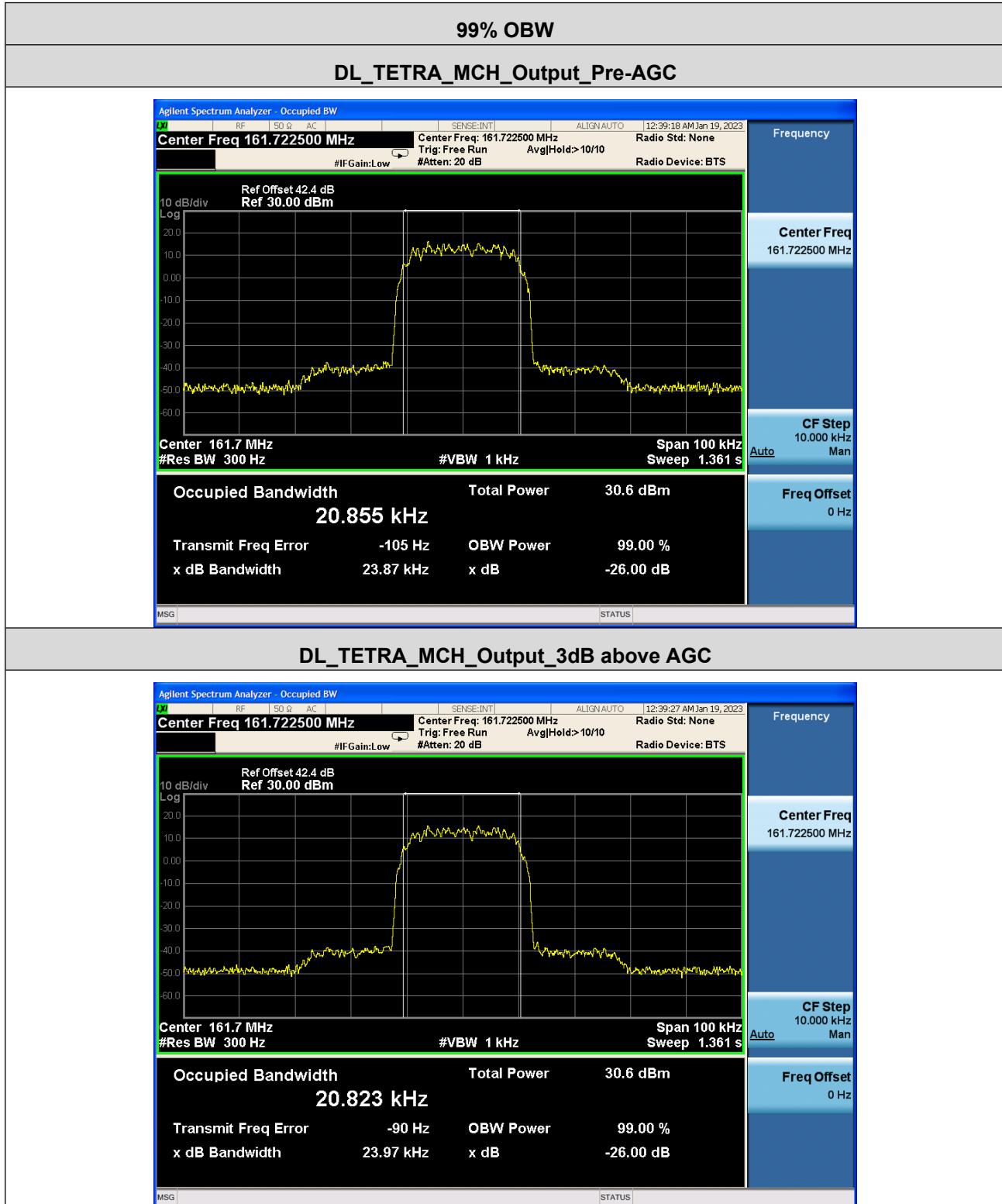




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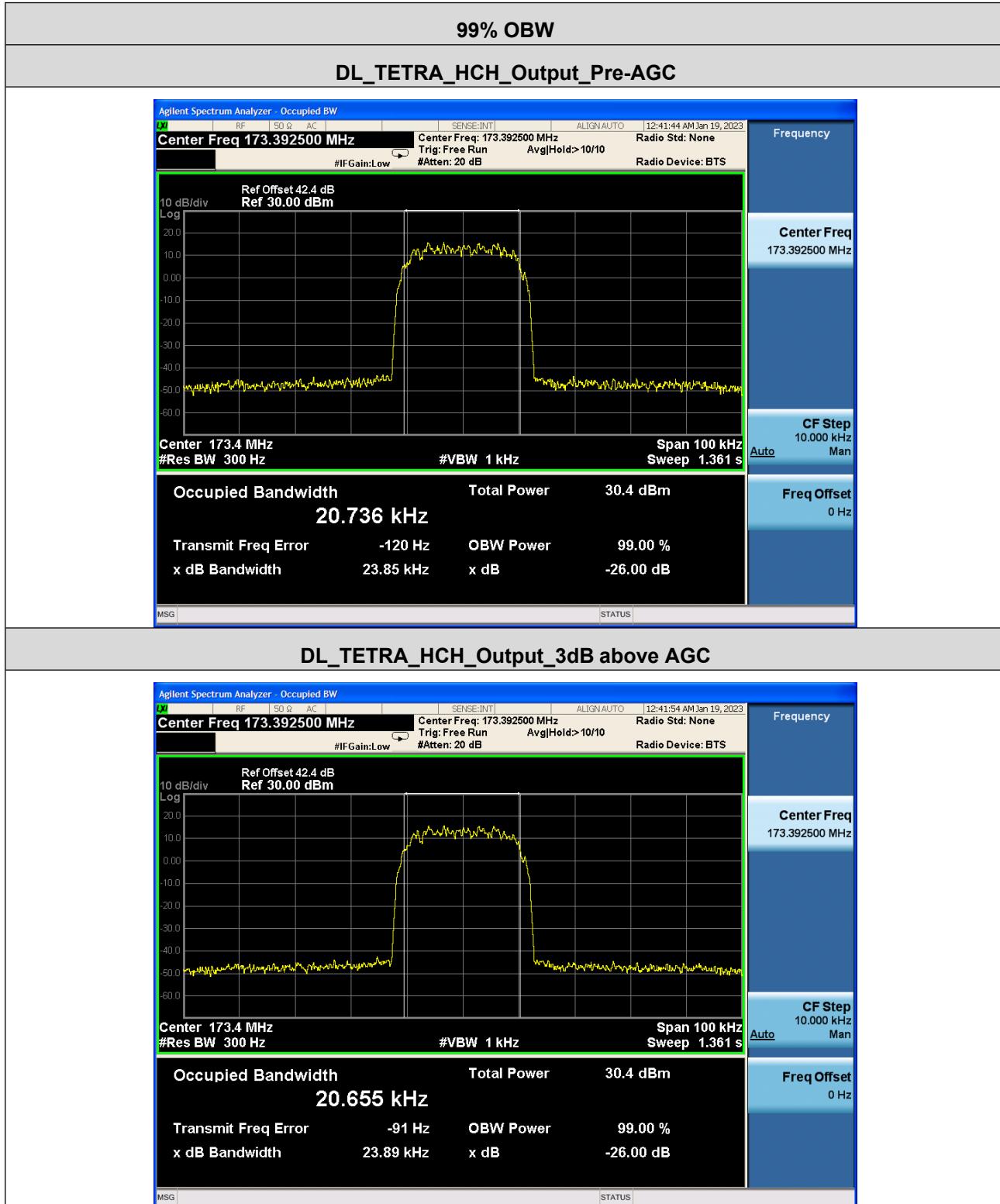




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3 Input/output power and amplifier/booster gain

Input/output power and amplifier/booster gain								
Test path	Test frequency f0 (MHz)	Signal level	Input power (dBm)	Output power (dBm)	ERP (W)	ERP limit (W)	Gain (dB)	Verdict
DL	160.1	Pre-AGC	-65	30.77	0.73	5	95.77	PASS
		3dB above AGC	-62	30.89	0.75		/	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. The manufacturer's rated Output power is 30dBm for DL, and the Output power showed in above table is within ± 1.0 dB tolerance.
3. ERP= Output power (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi declared by the manufacturer.

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4 Emission Masks

Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	FM	LCH	Pre-AGC	Mask E	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	DMR	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	C4FM	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	H-DQPSK	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS

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Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	TETRA	LCH	Pre-AGC	Mask B	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS

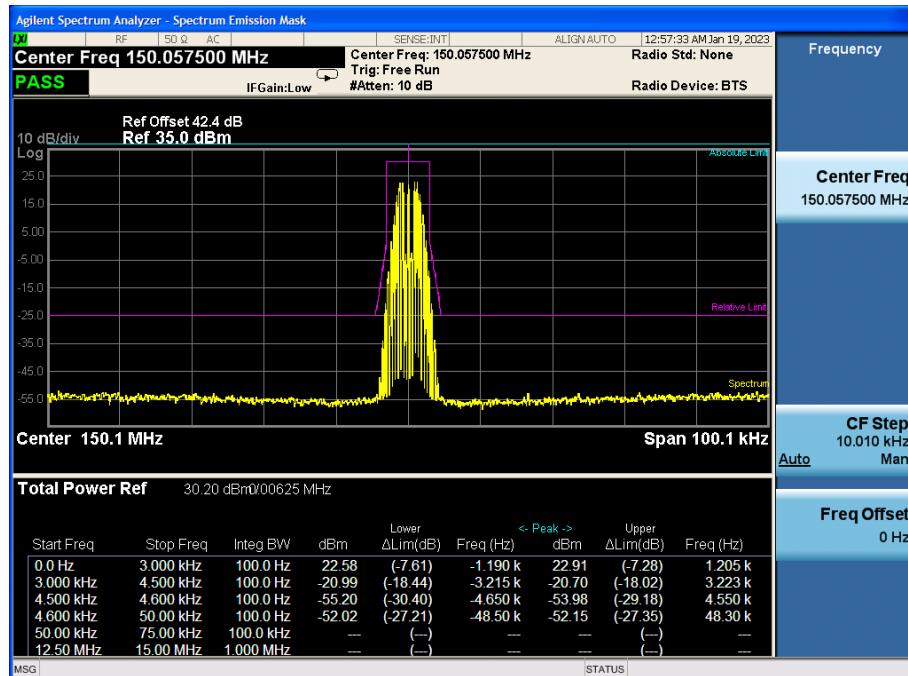


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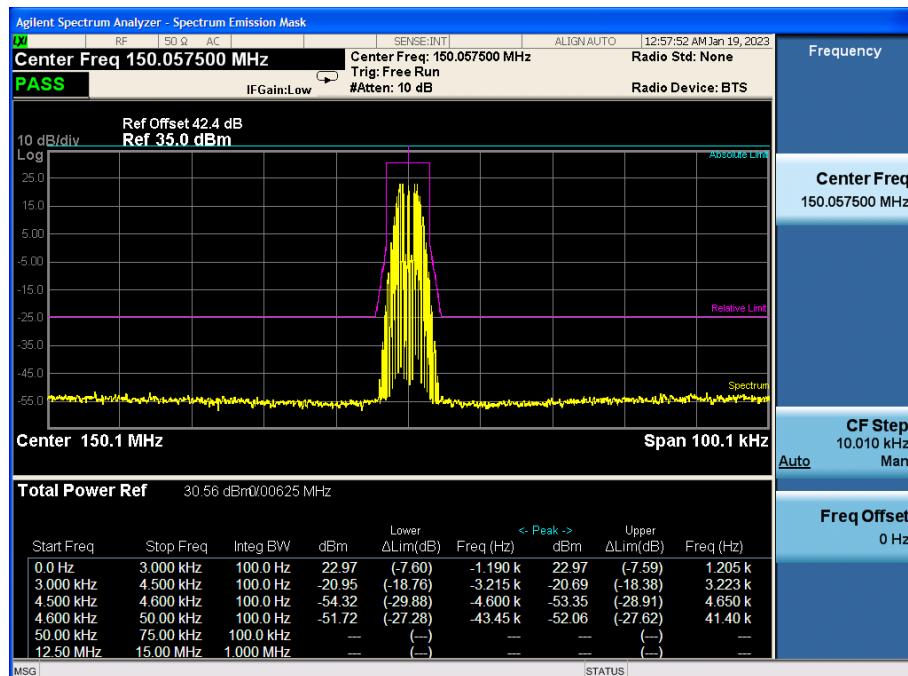
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Emission Masks

DL_FM_LCH_Pre-AGC



DL_FM_LCH_3dB above AGC



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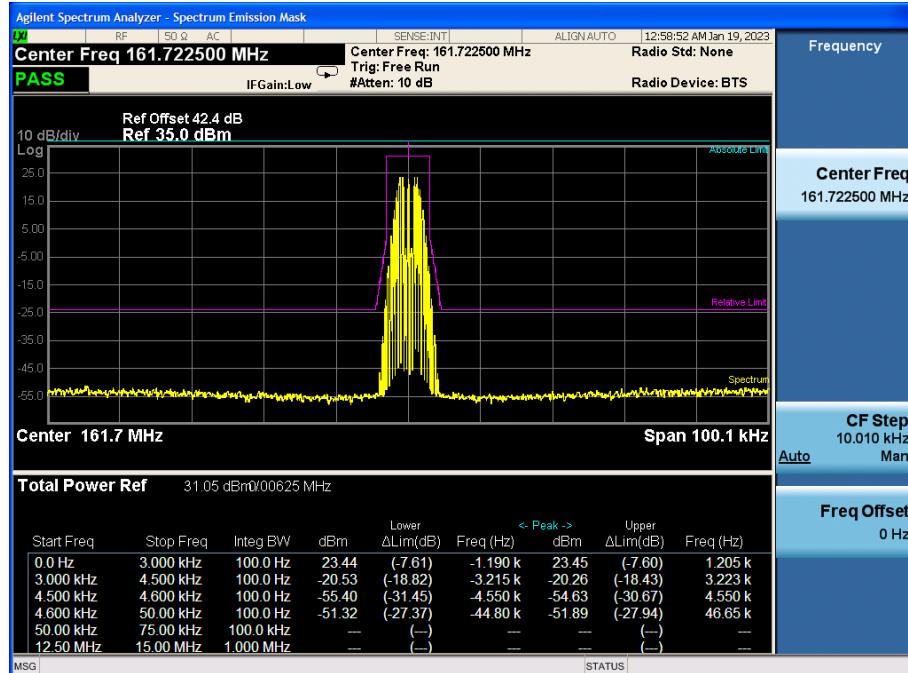


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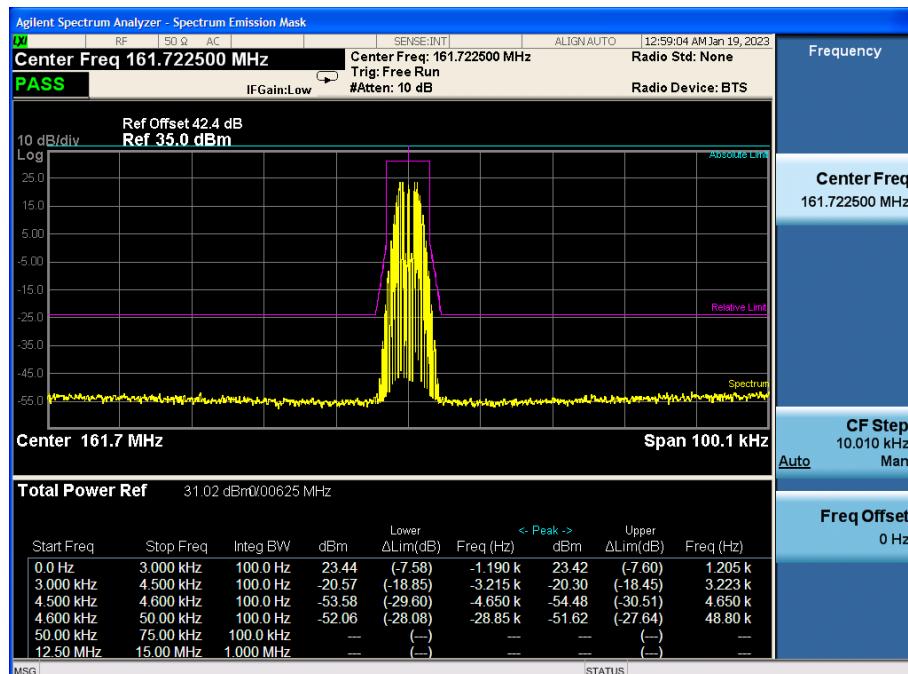
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Emission Masks

DL_FM_MCH_Pre-AGC



DL_FM_MCH_3dB above AGC



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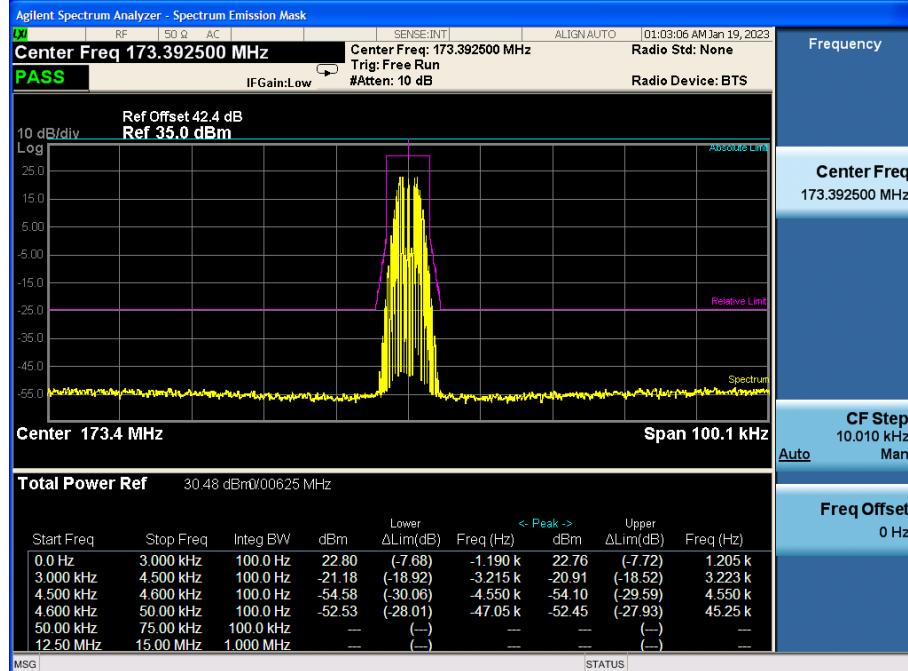


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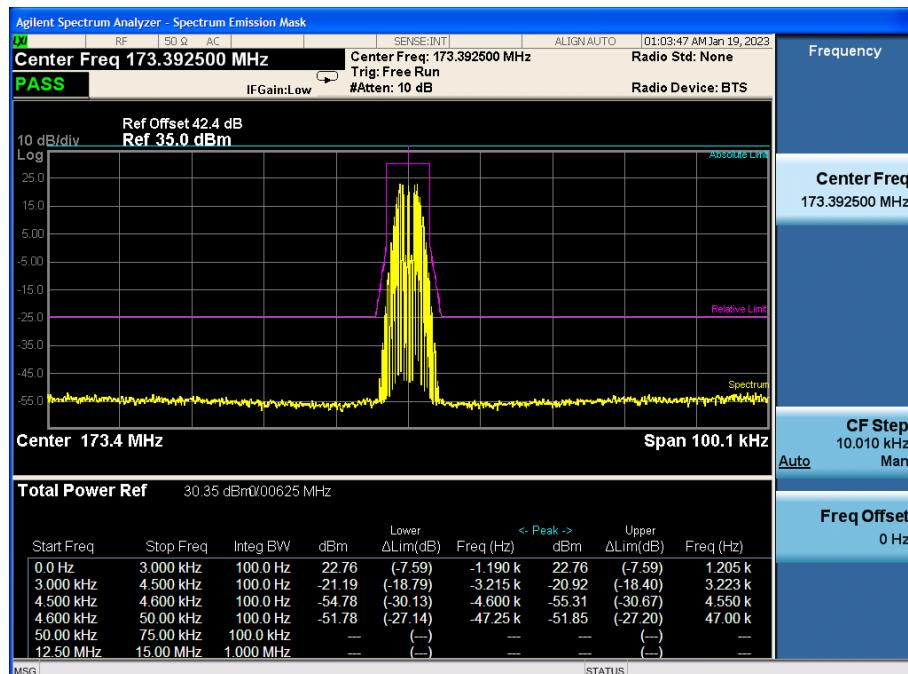
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Emission Masks

DL_FM_HCH_Pre-AGC



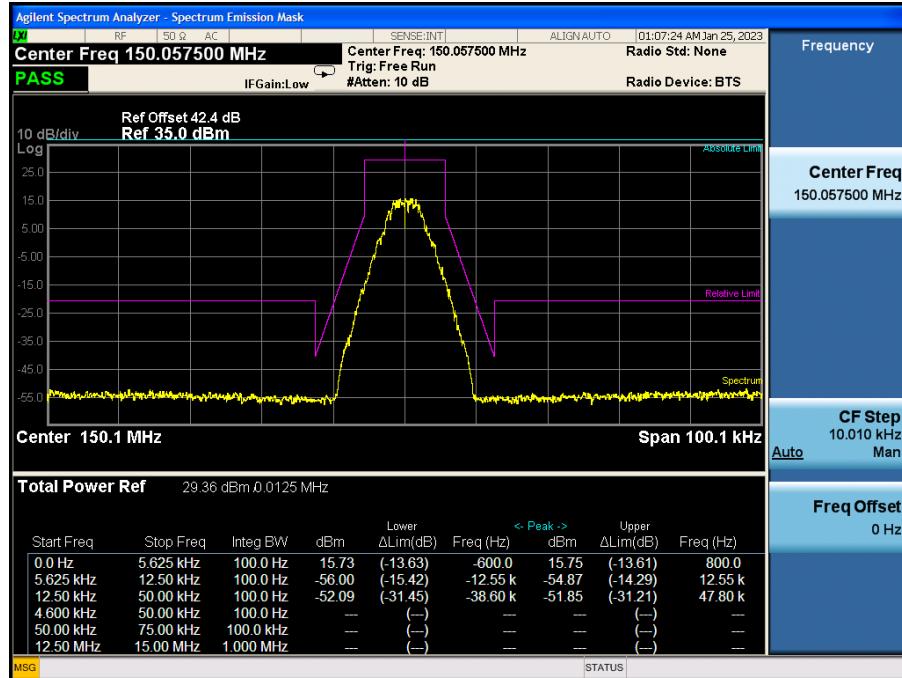
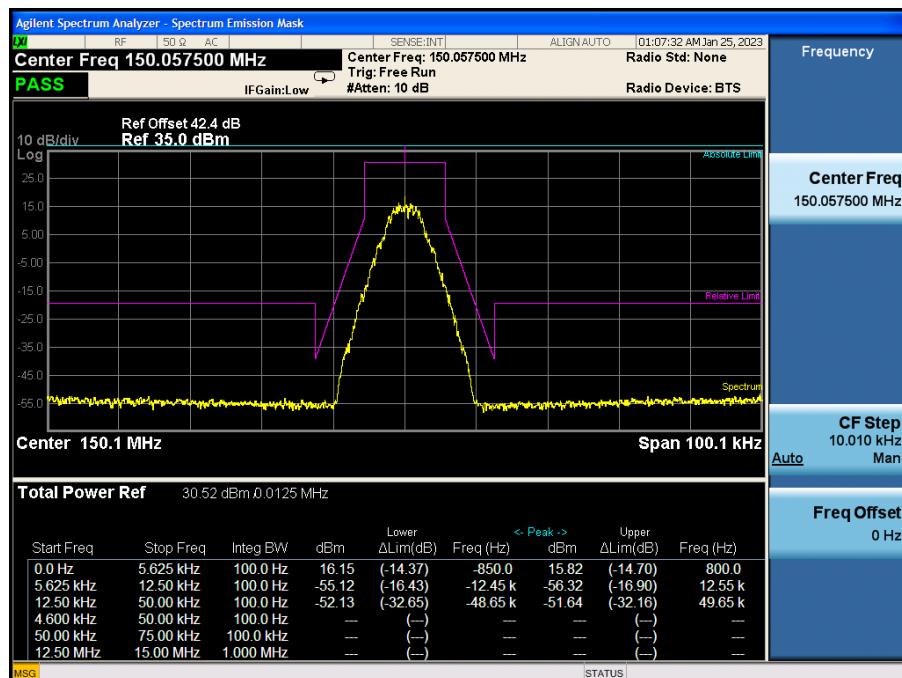
DL_FM_HCH_3dB above AGC



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Emission Masks
DL_DMR_LCH_Pre-AGC

DL_DMR_LCH_3dB above AGC


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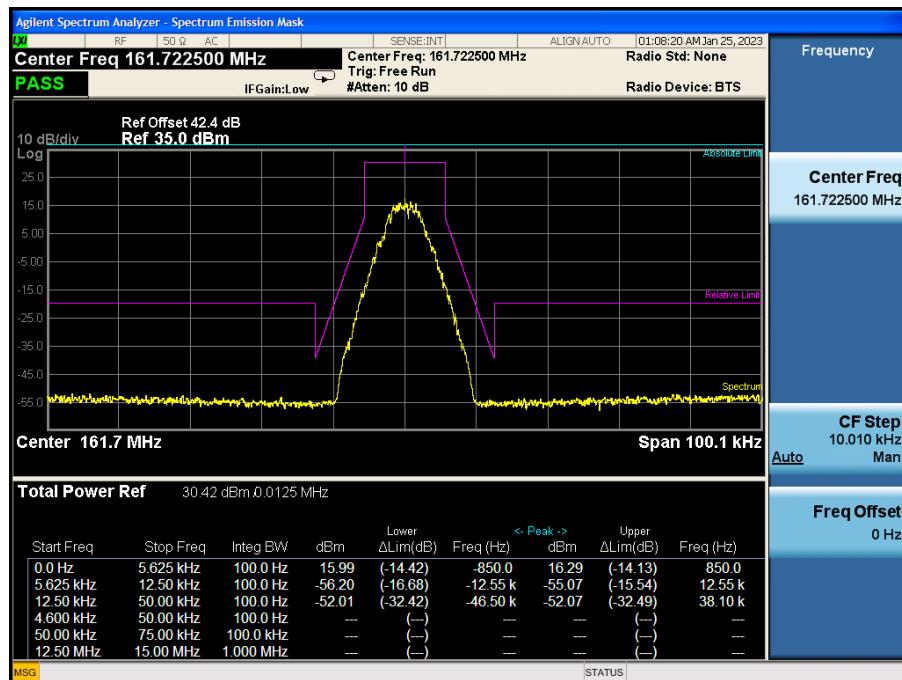
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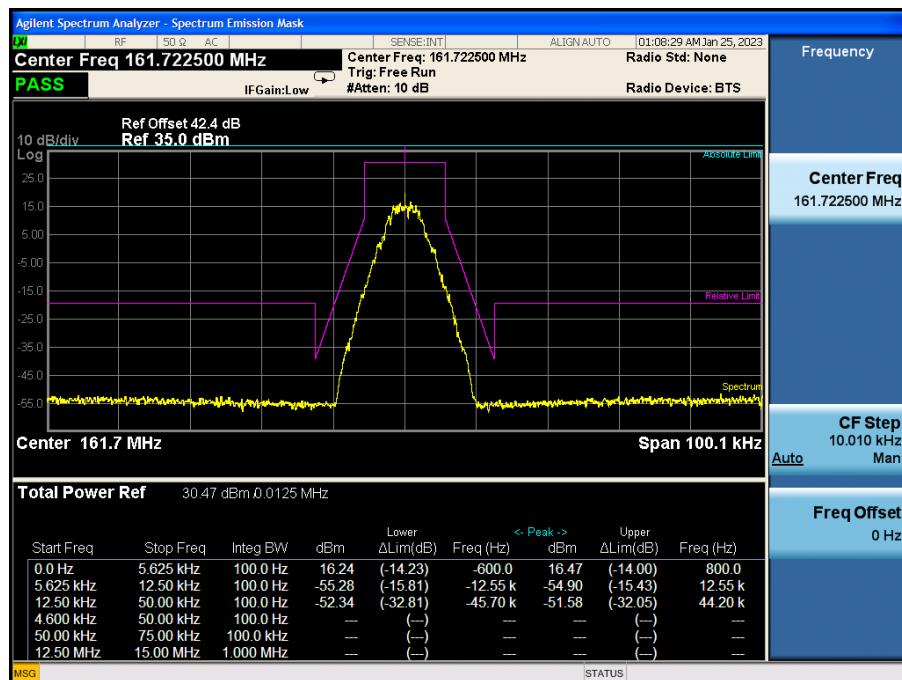
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Emission Masks

DL_DMR_MCH_Pre-AGC



DL_DMR_MCH_3dB above AGC



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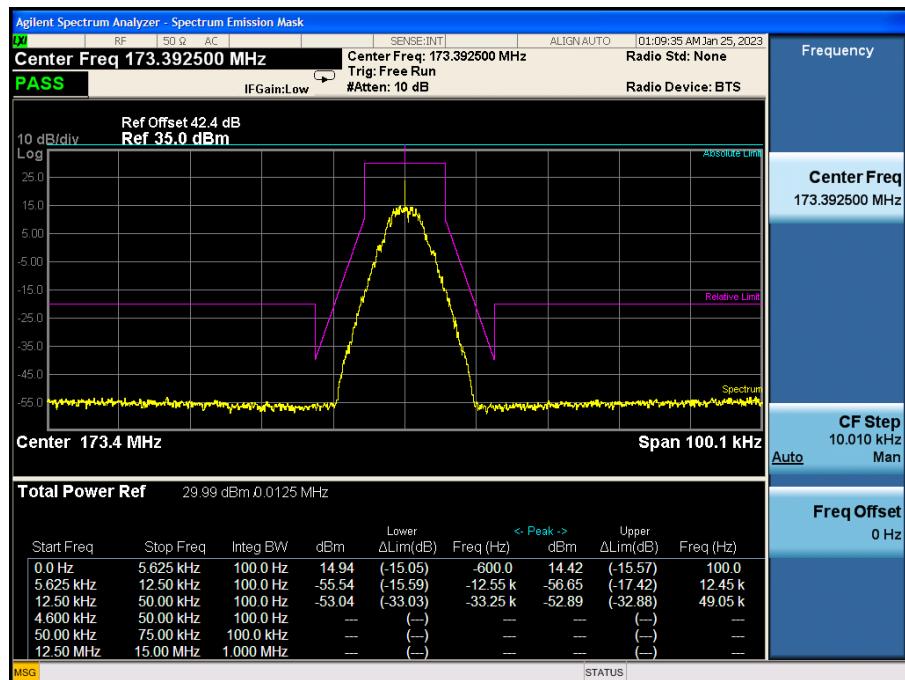
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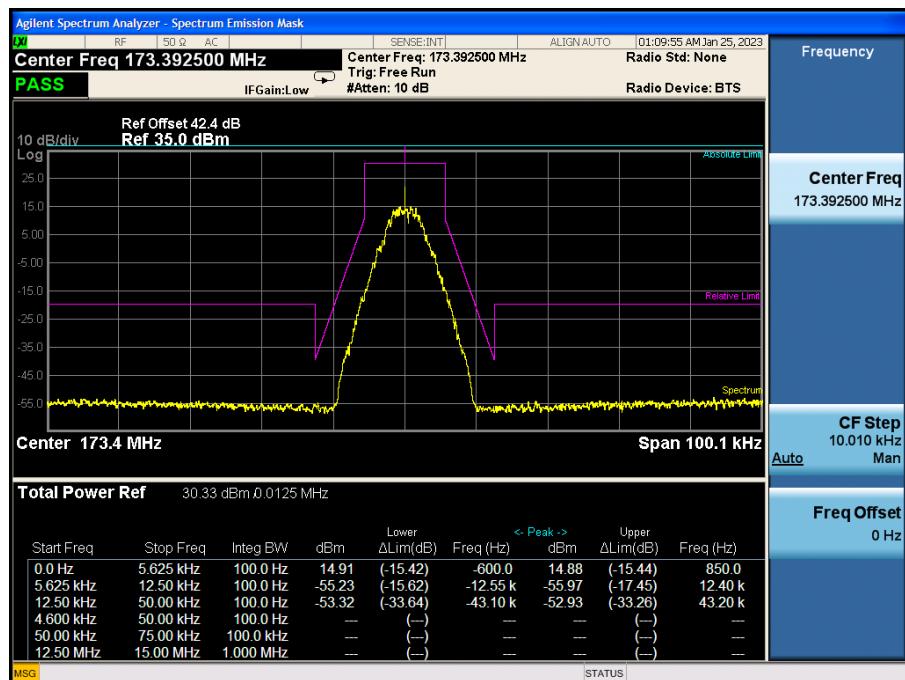
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Emission Masks

DL_DMR_HCH_Pre-AGC



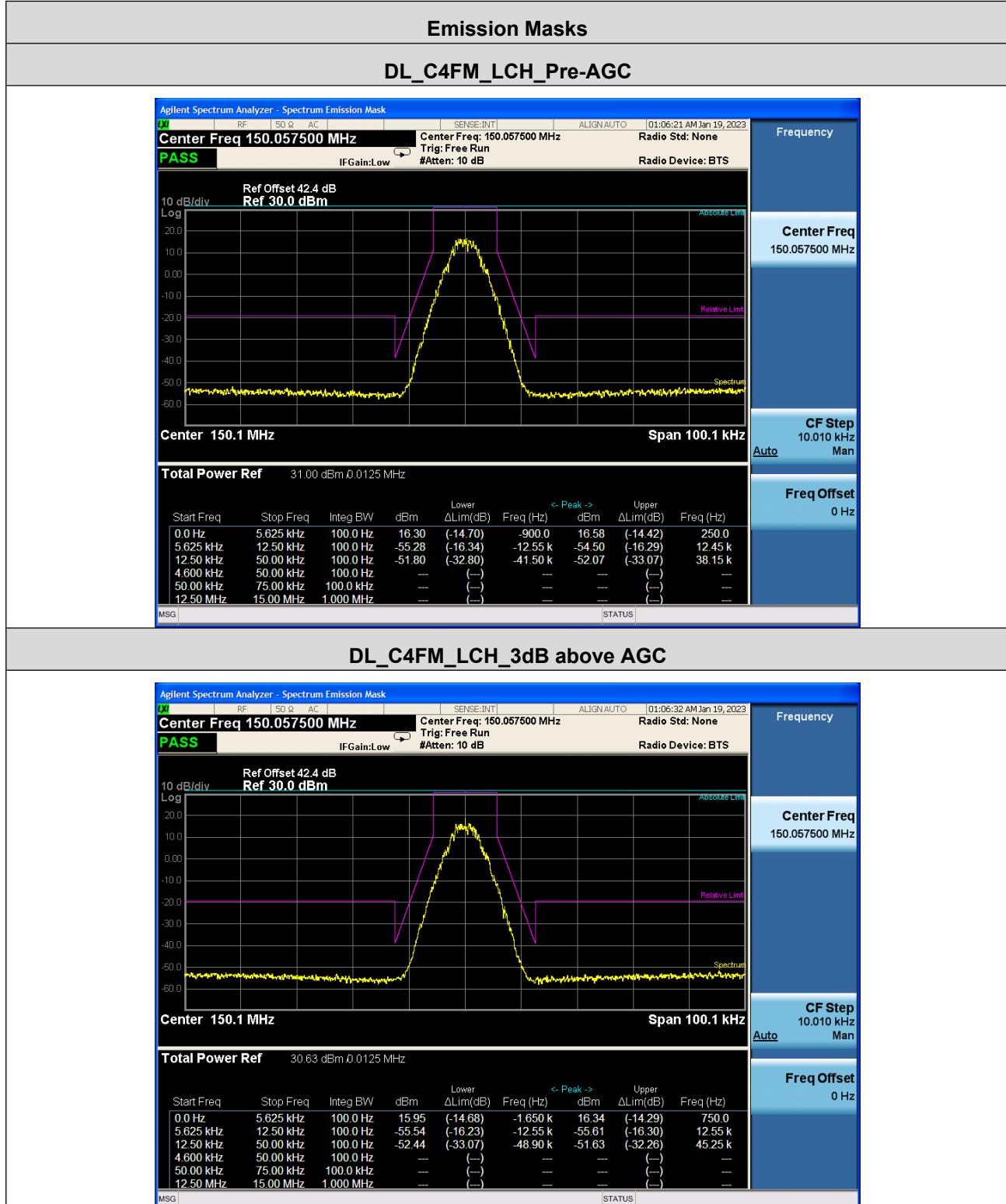
DL_DMR_HCH_3dB above AGC



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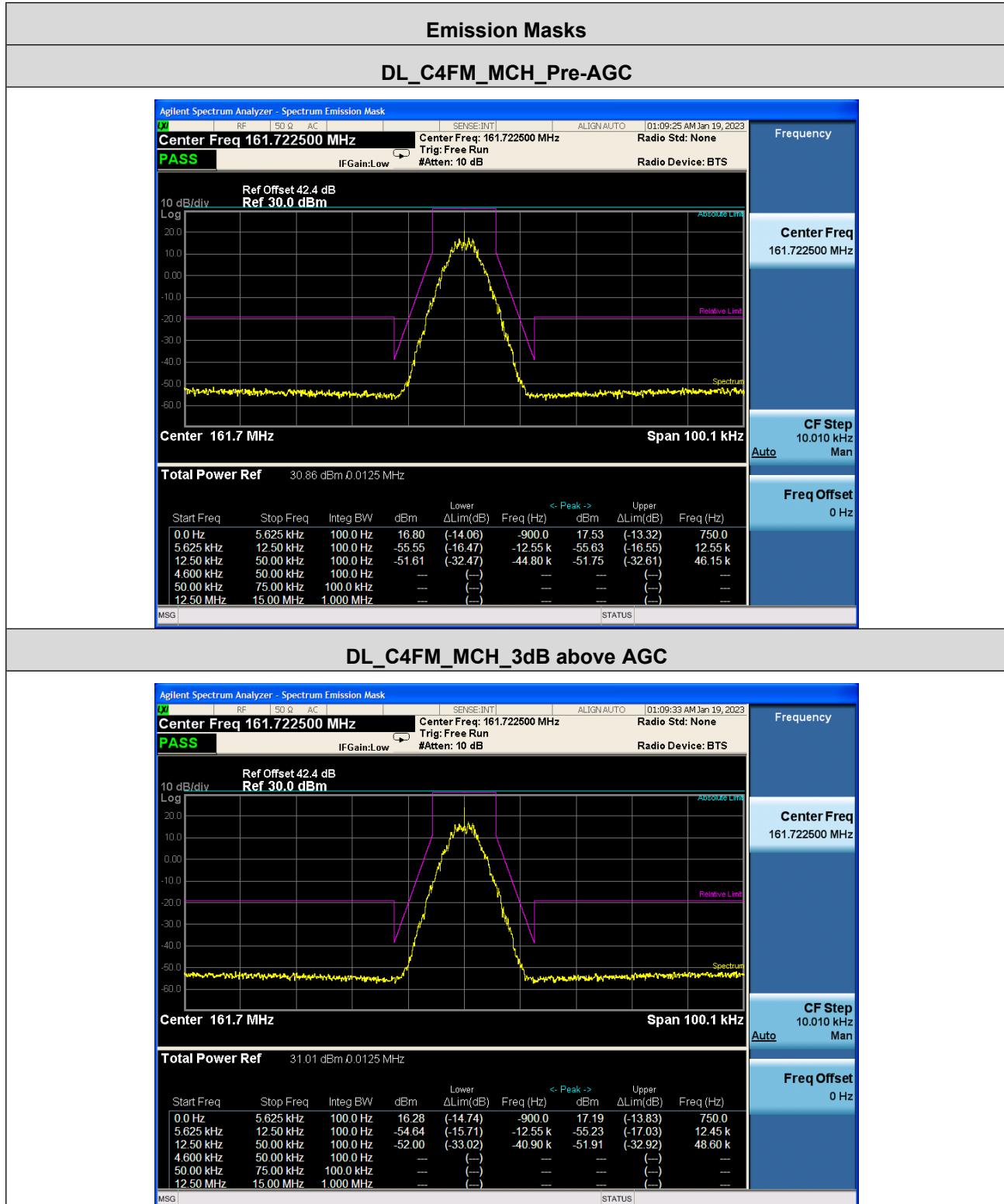




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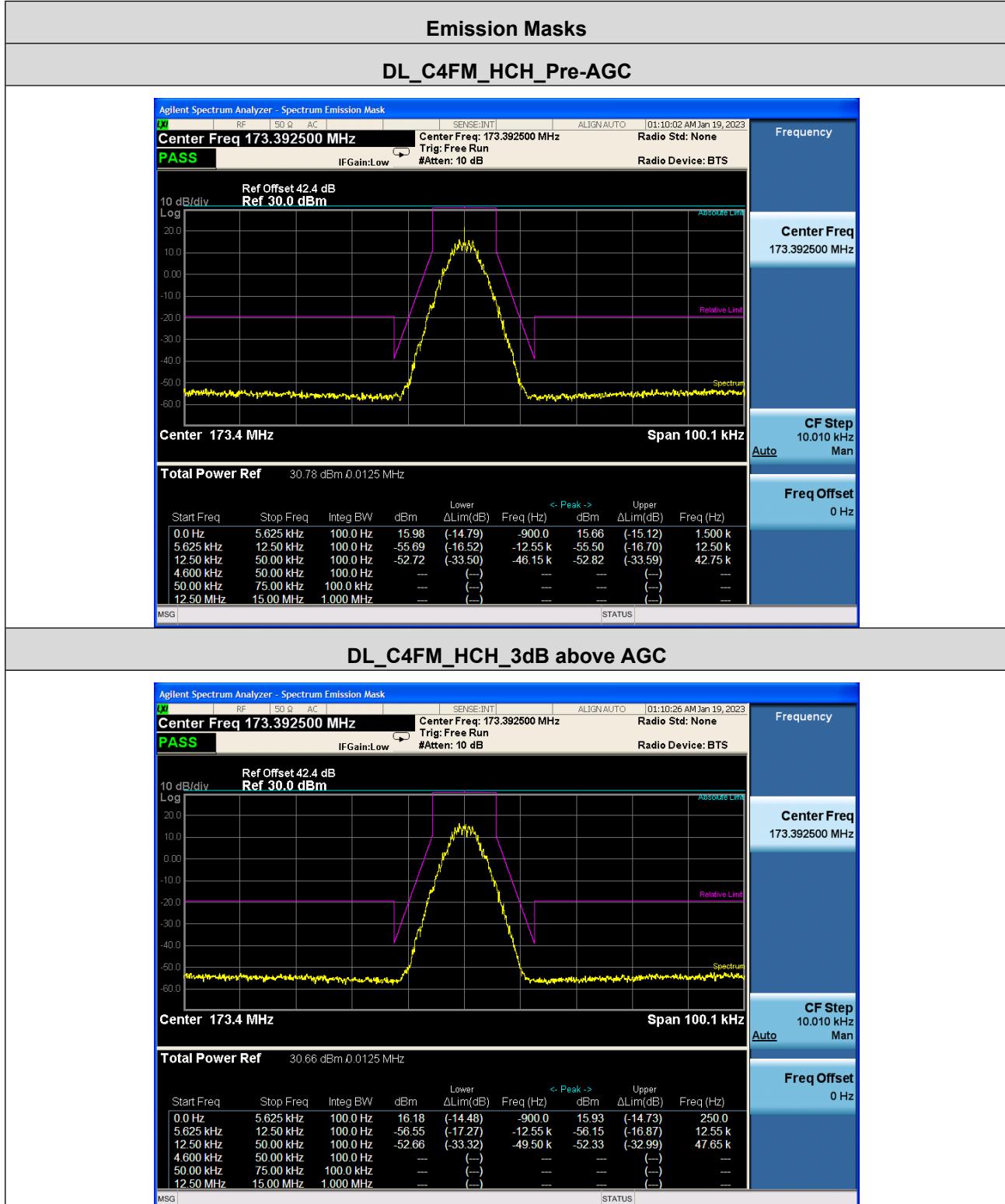




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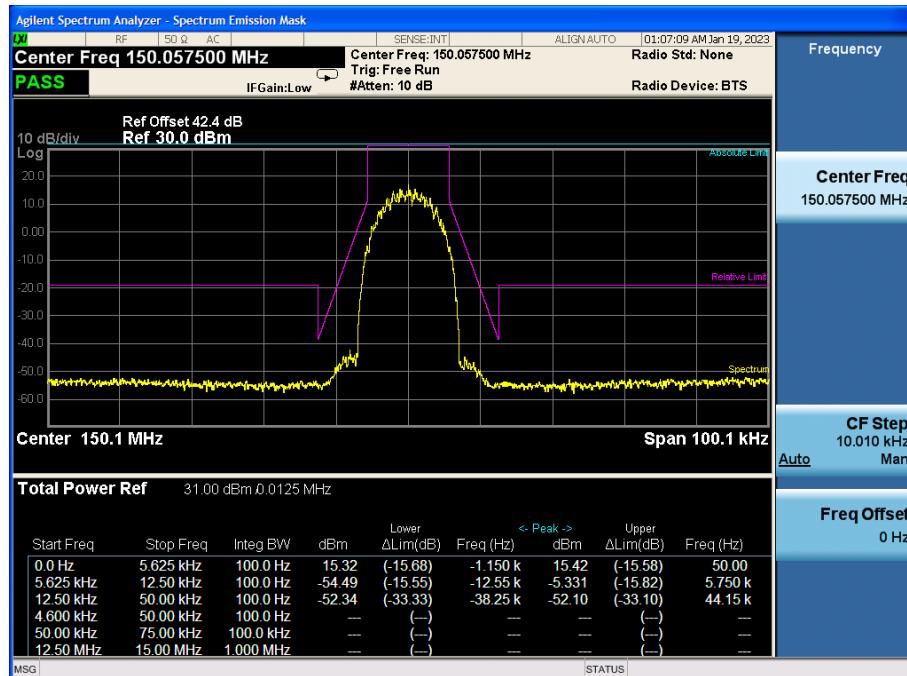
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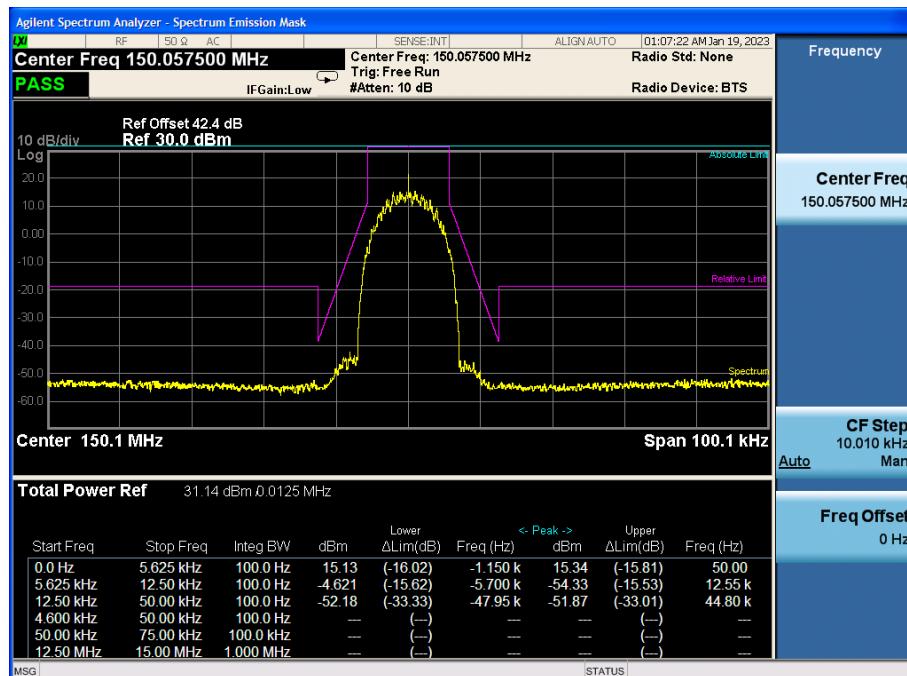


Emission Masks

DL_H-DQPSK_LCH_Pre-AGC



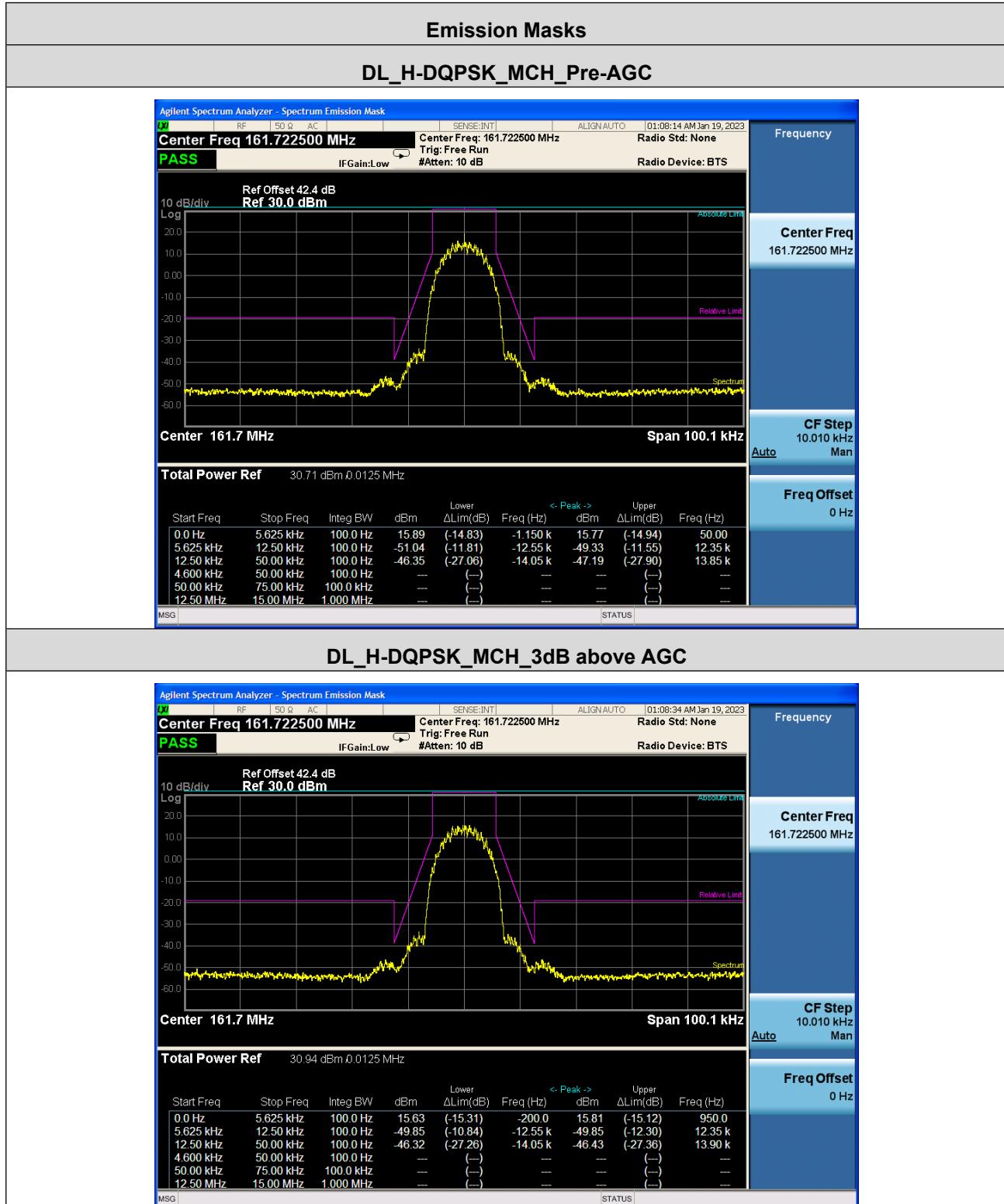
DL_H-DQPSK_LCH_3dB above AGC



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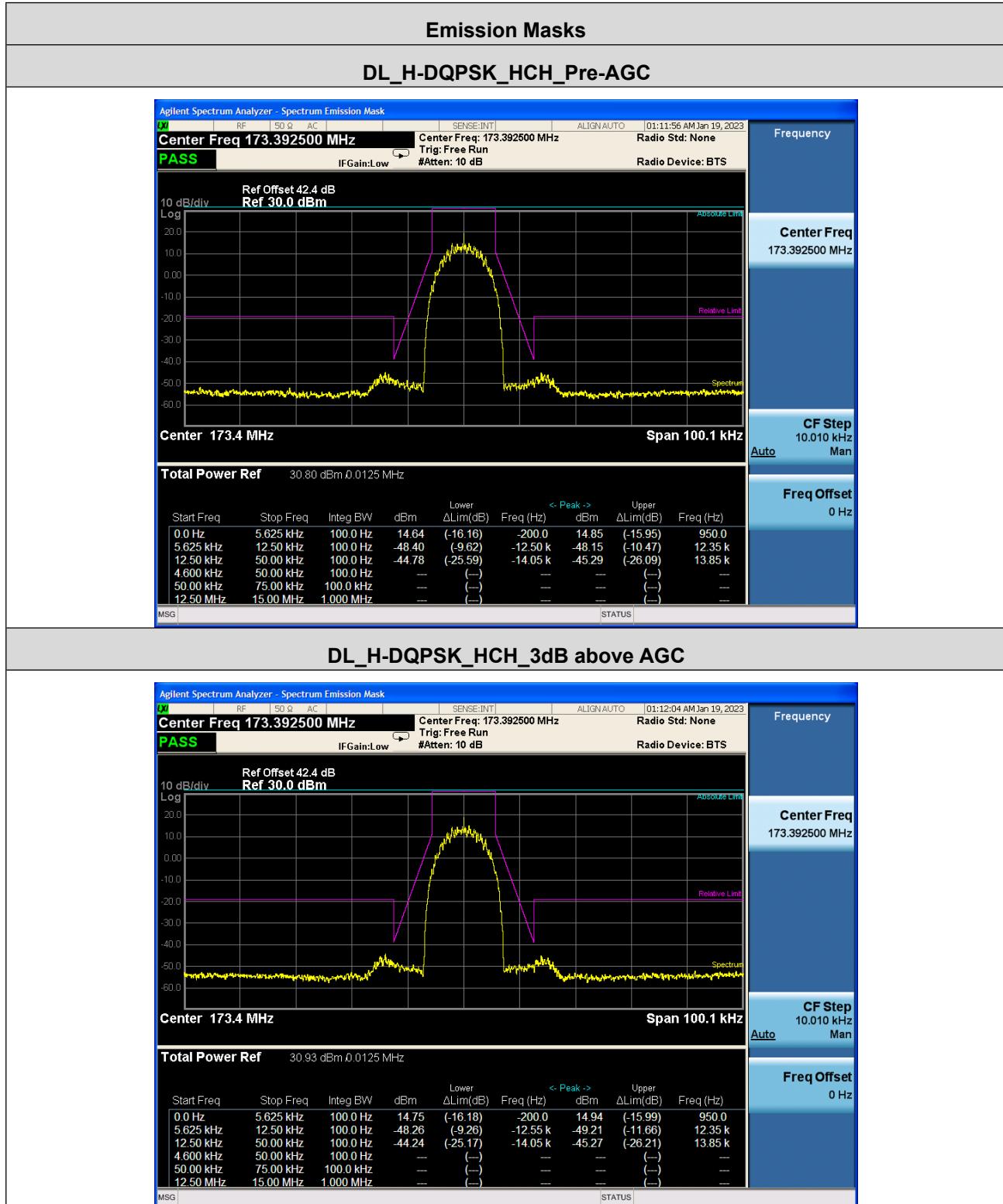




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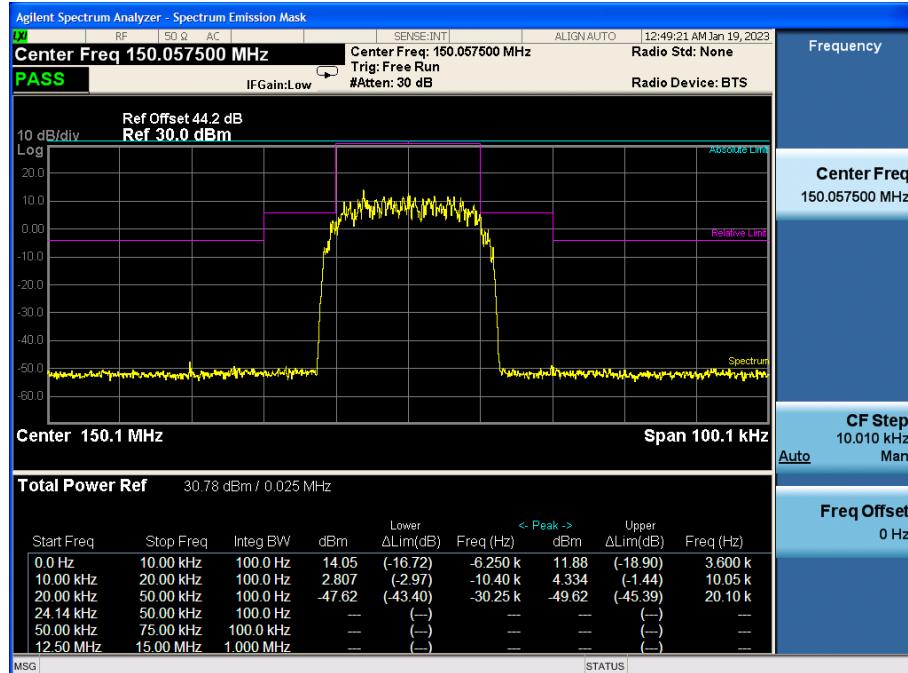
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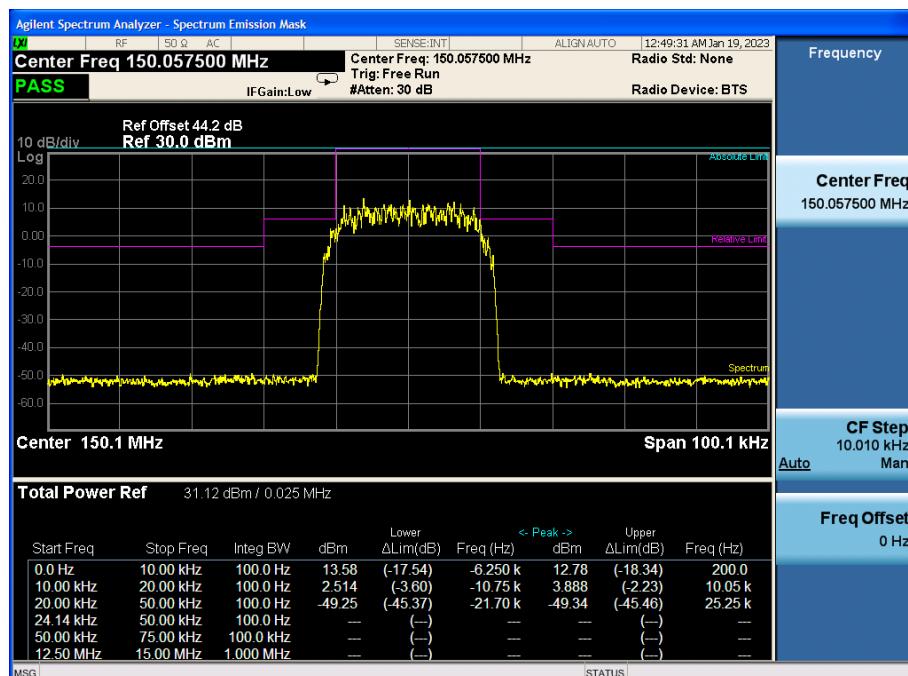


Emission Masks

DL_TETRA_LCH_Pre-AGC



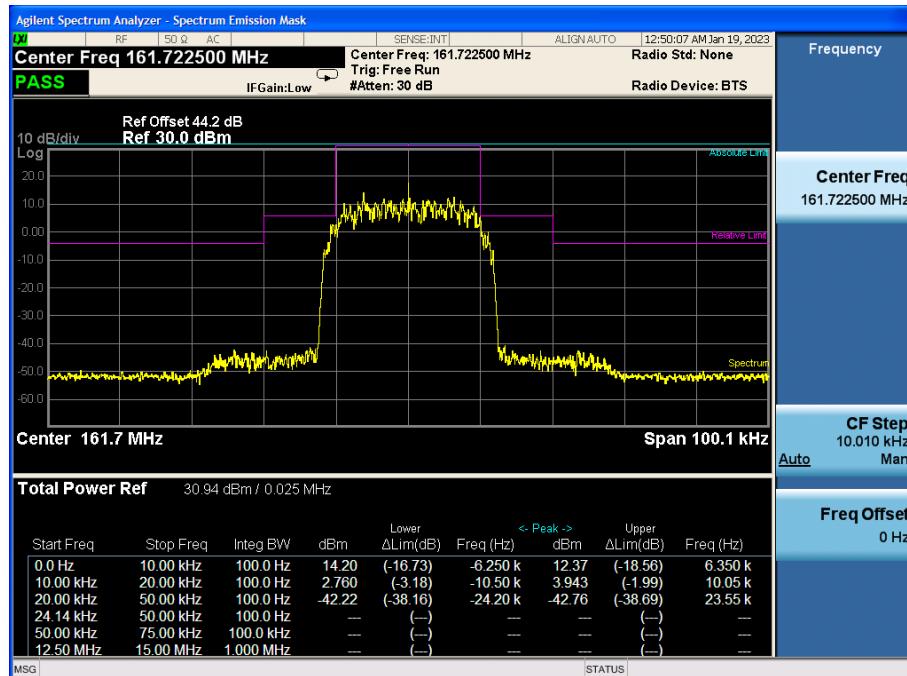
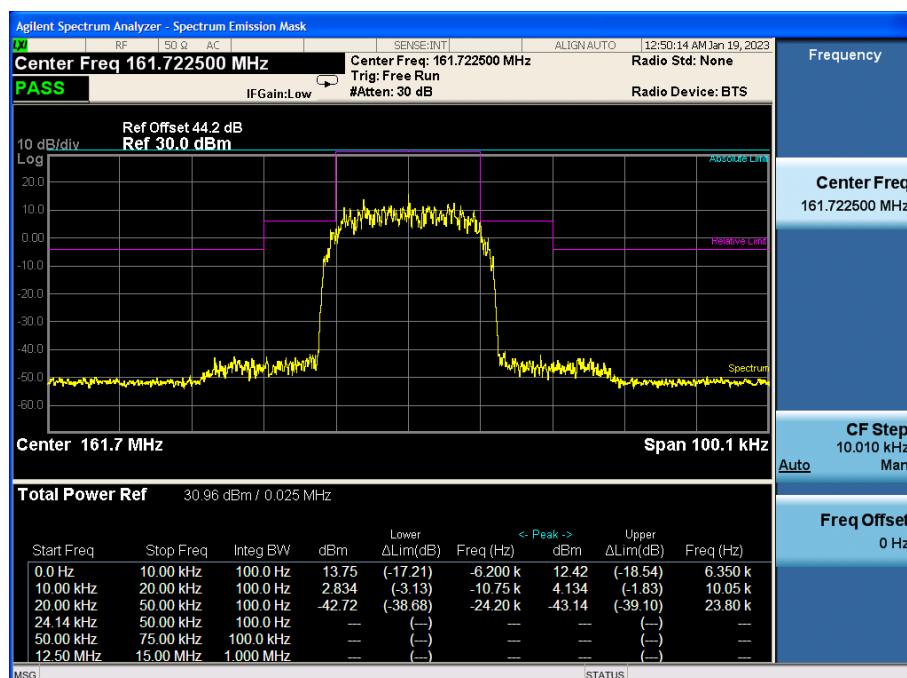
DL_TETRA_LCH_3dB above AGC



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Emission Masks
DL_TETRA_MCH_Pre-AGC

DL_TETRA_MCH_3dB above AGC


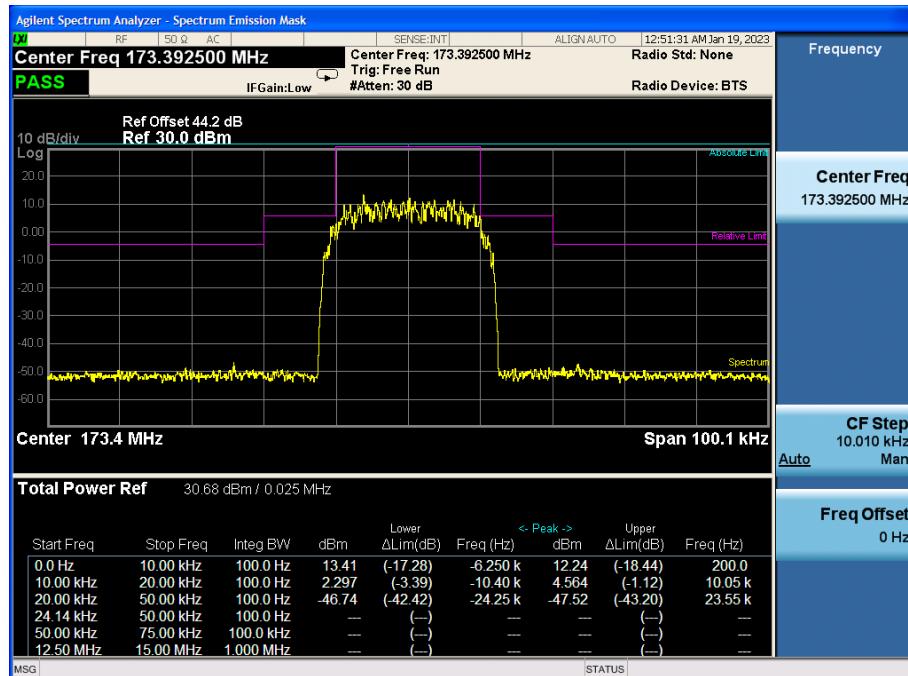
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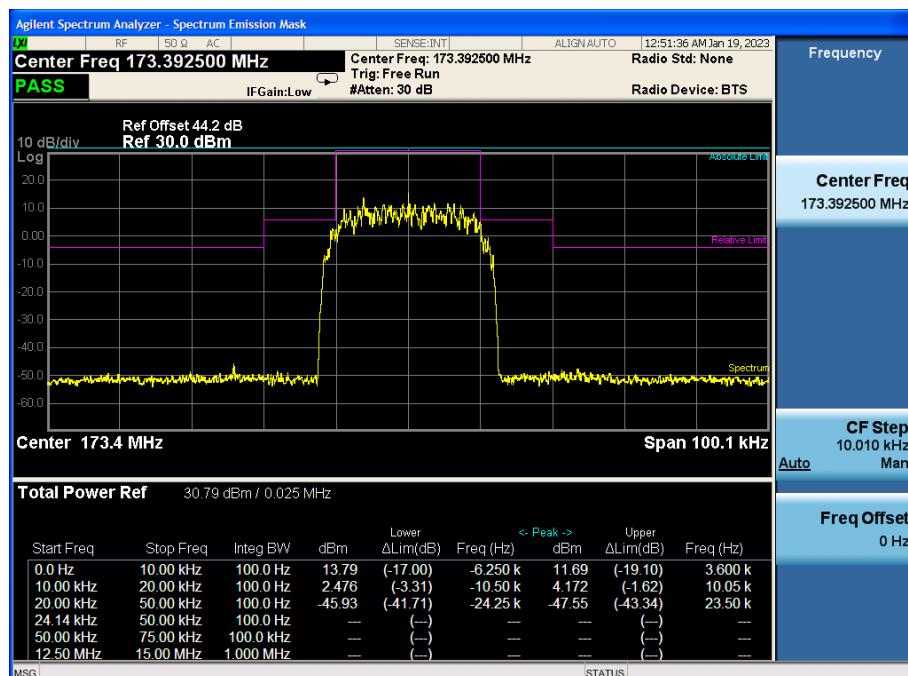


Emission Masks

DL_TETRA_HCH_Pre-AGC



DL_TETRA_HCH_3dB above AGC



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5 Noise Figure

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	4.62	≤9	PASS



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6 Intermodulation

Intermodulation					
Test path	Test frequency f0 (MHz)	CW signal spacing (kHz)	Signal level	Worst conducted test level (dBm)	
				300Hz measurement bandwidth	10kHz measurement bandwidth
DL	160.1	6.25	Pre-AGC	-20.46	-5.23
			3dB above AGC	-20.31	-5.08
		12.5	Pre-AGC	-20.47	-5.24
			3dB above AGC	-20.40	-5.17
		25	Pre-AGC	-20.45	-5.22
			3dB above AGC	-20.59	-5.36

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+ $10\lg(10000/300)$.
3. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
4. The ERP of worst intermodulation products is $-5.08/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -7.23\text{dBm}$, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

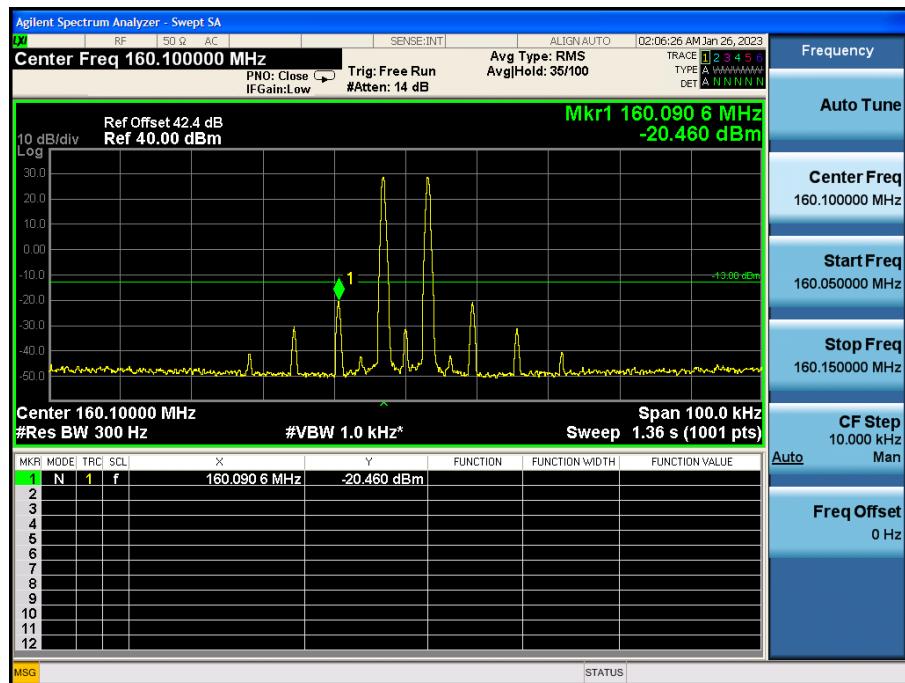
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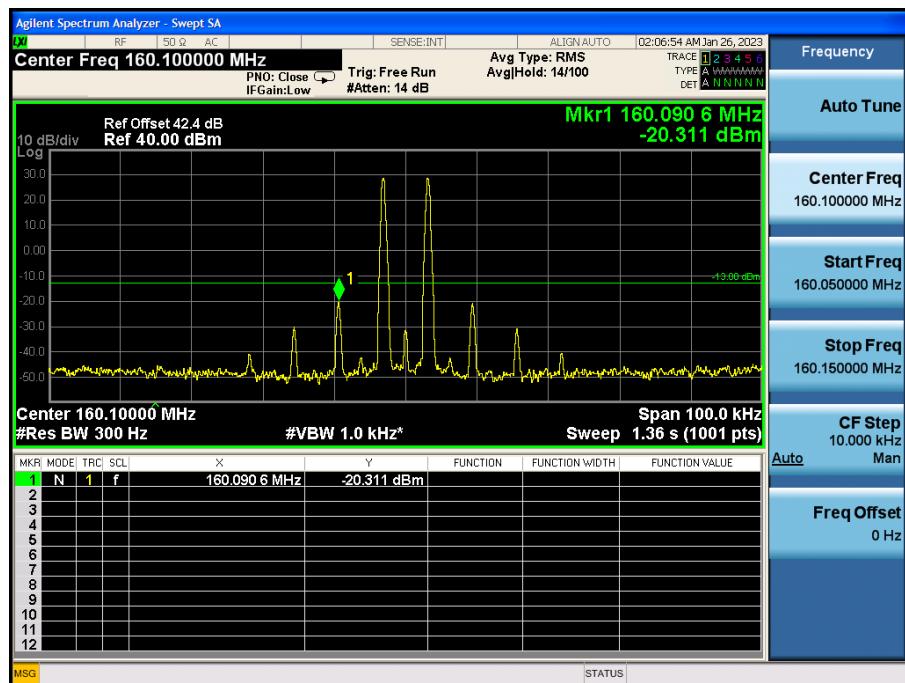


Intermodulation

DL_6.25kHz_Pre-AGC



DL_6.25kHz_3dB above AGC



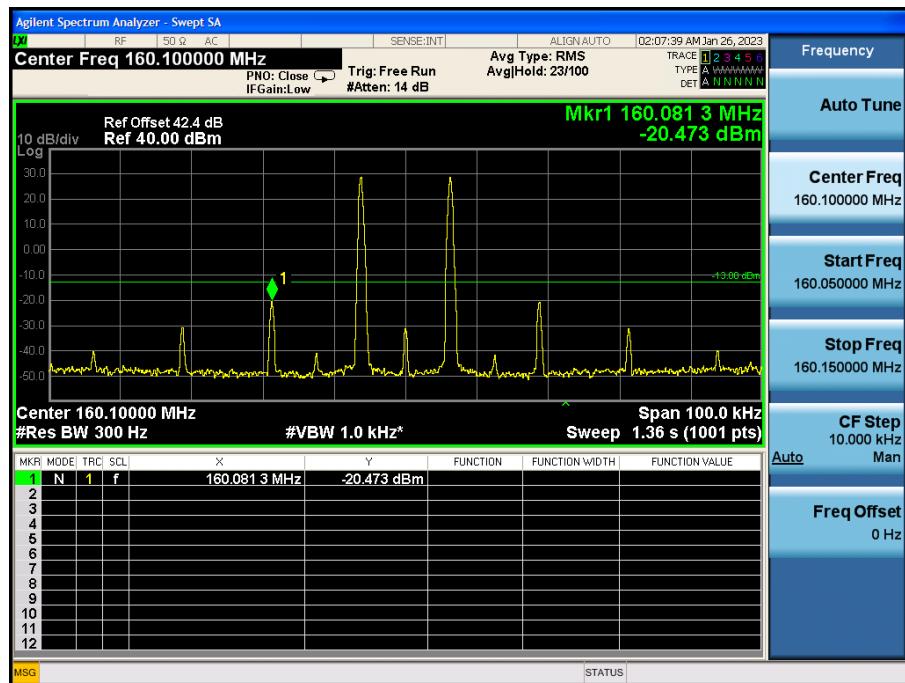
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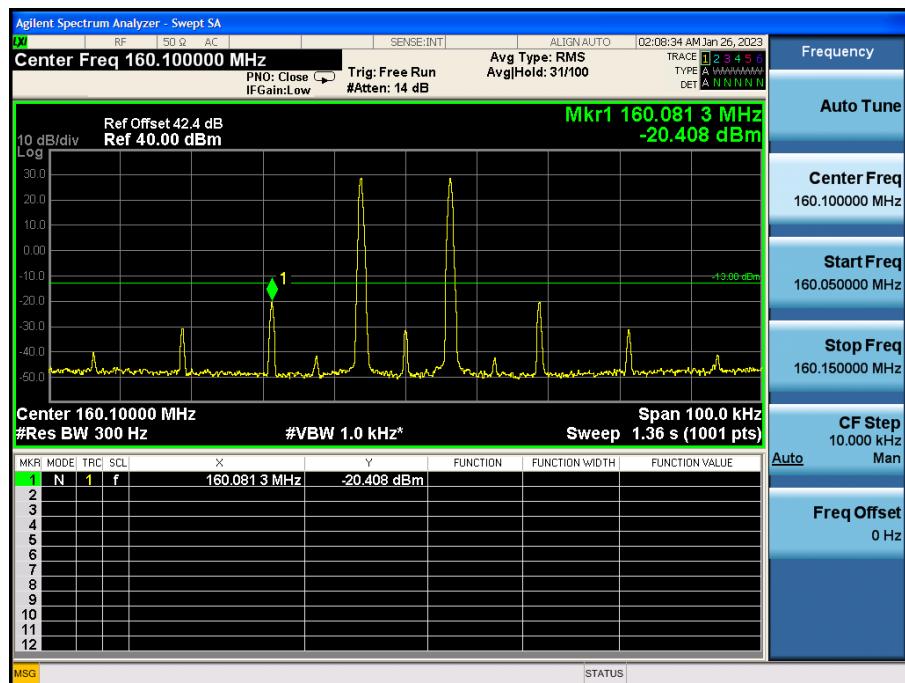


Intermodulation

DL_12.5kHz_Pre-AGC



DL_12.5kHz_3dB above AGC



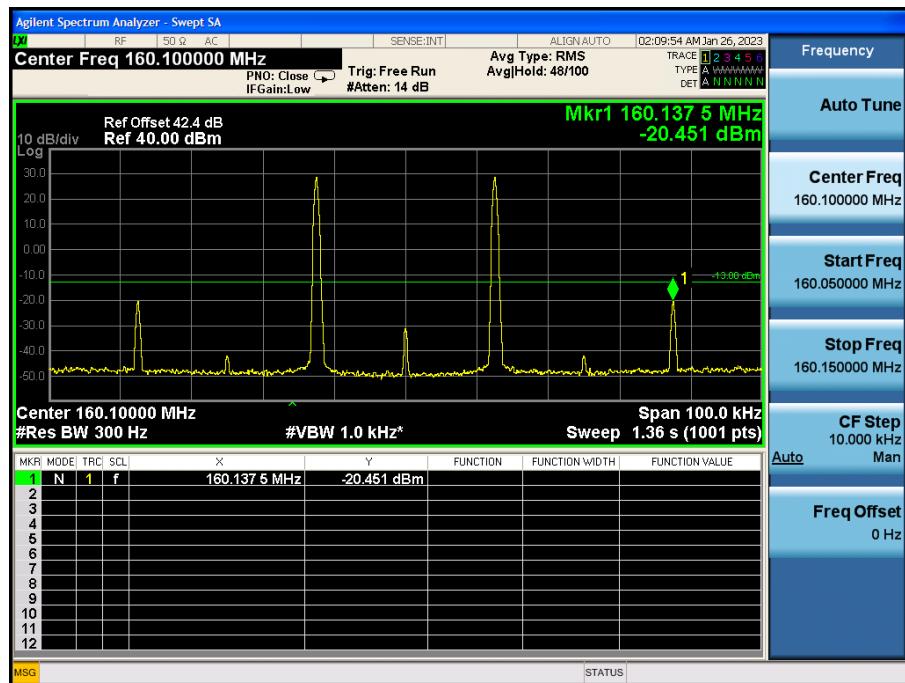
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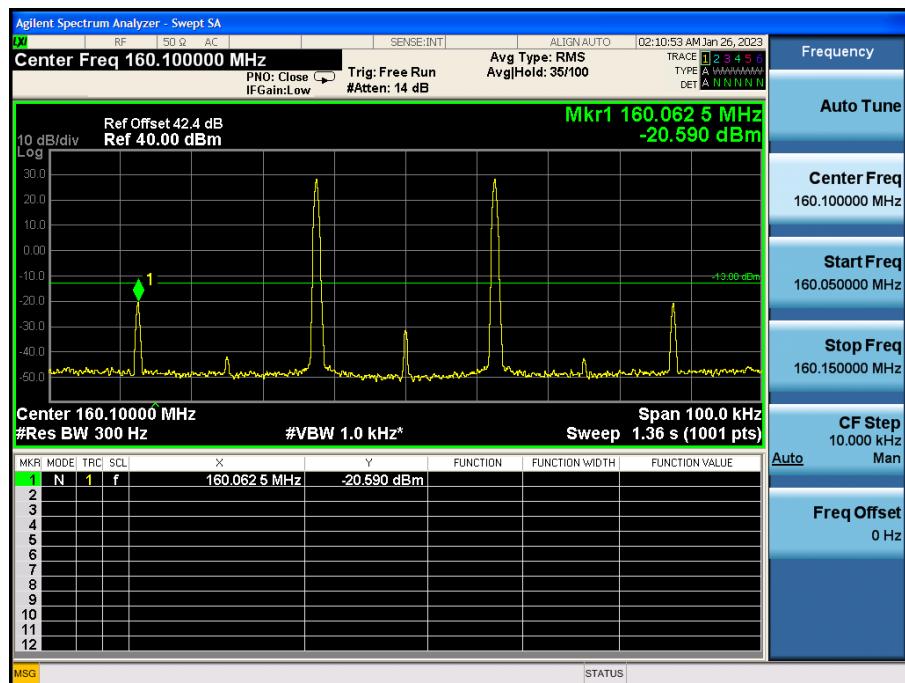


Intermodulation

DL_25kHz_Pre-AGC



DL_25kHz_3dB above AGC



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7 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.009-1000	-19.90	≤-13	PASS
			1000-1734	-31.34	≤-13	PASS

Remark:
The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.

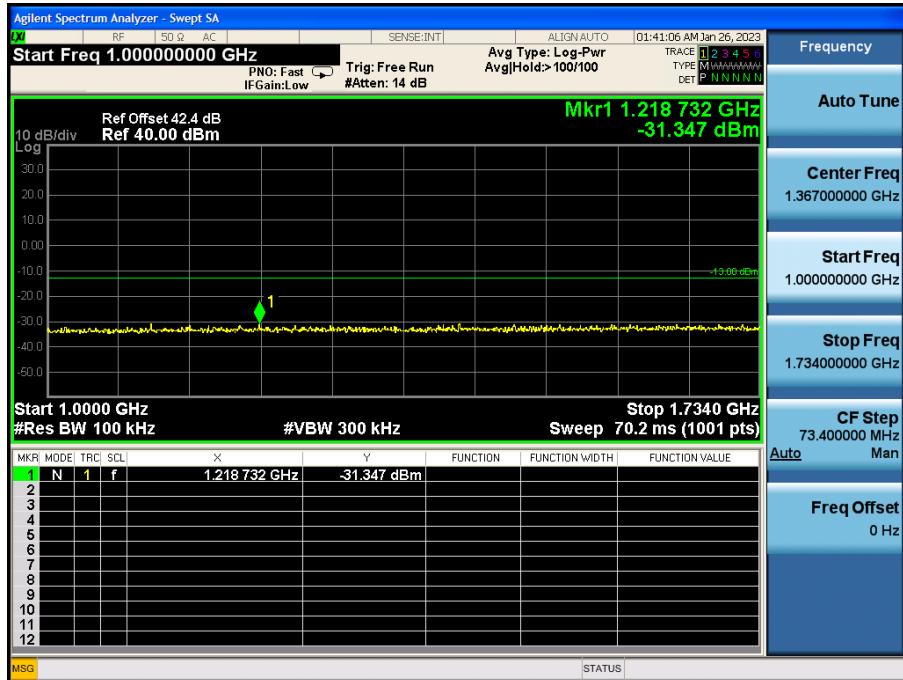
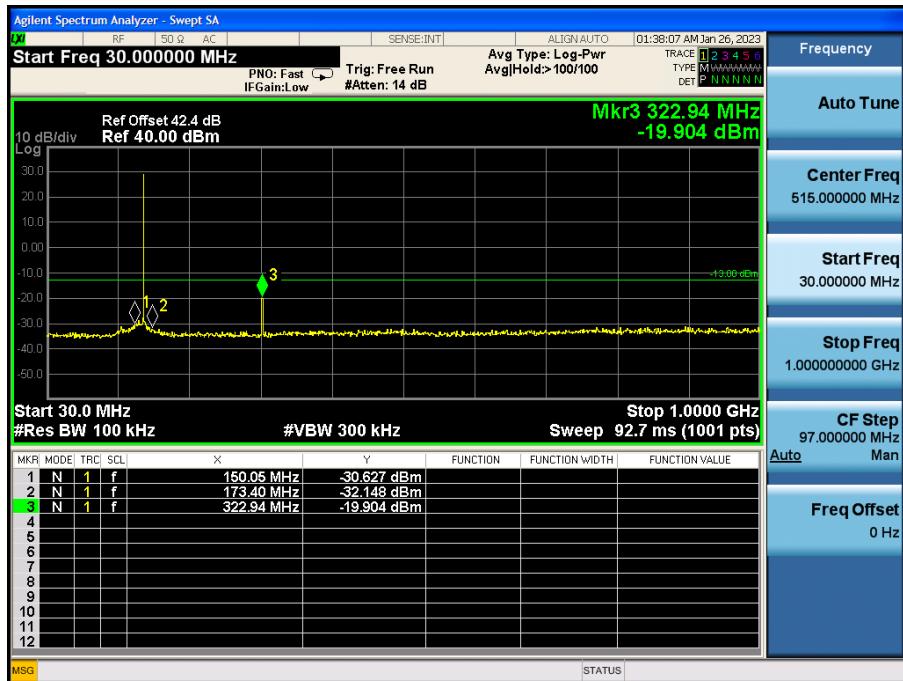


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Conducted Spurious emissions

DL_CW_MCH



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8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	150.05-173.4	-39.90
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-149.05	-43.73
	174.4-1734	-44.59

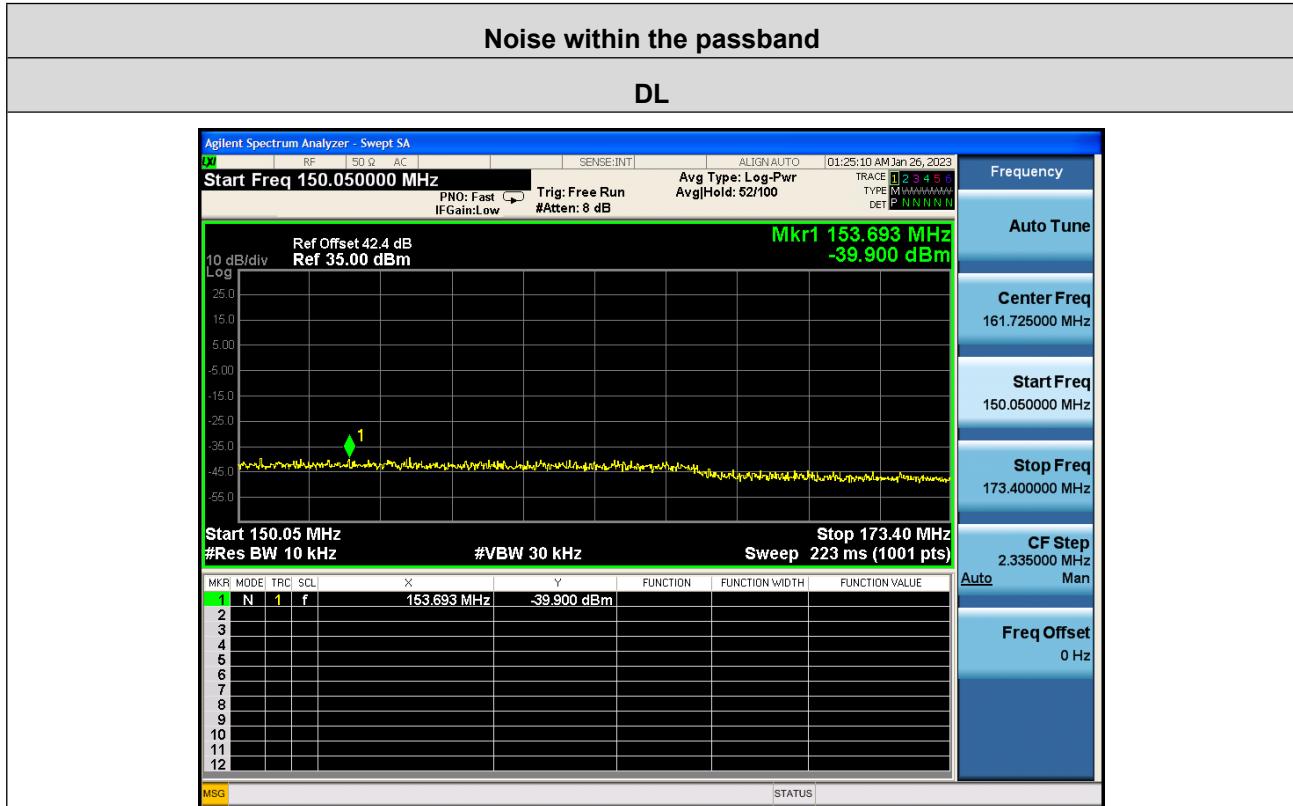
Remark:

1. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
2. The ERP of worst noise within the passband is $-39.90/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -42.05\text{dBm}$, the applicant must use good engineering practice to make sure that the ERP of noise within the passband should not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is $-43.73/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -45.88\text{dBm}$, the applicant must use good engineering practice to make sure that the ERP of noise outside the passband should not exceed -70dBm in 10kHz measurement bandwidth.
4. The noise 9kHz to 30MHz were very low and not displayed test plots in this report.



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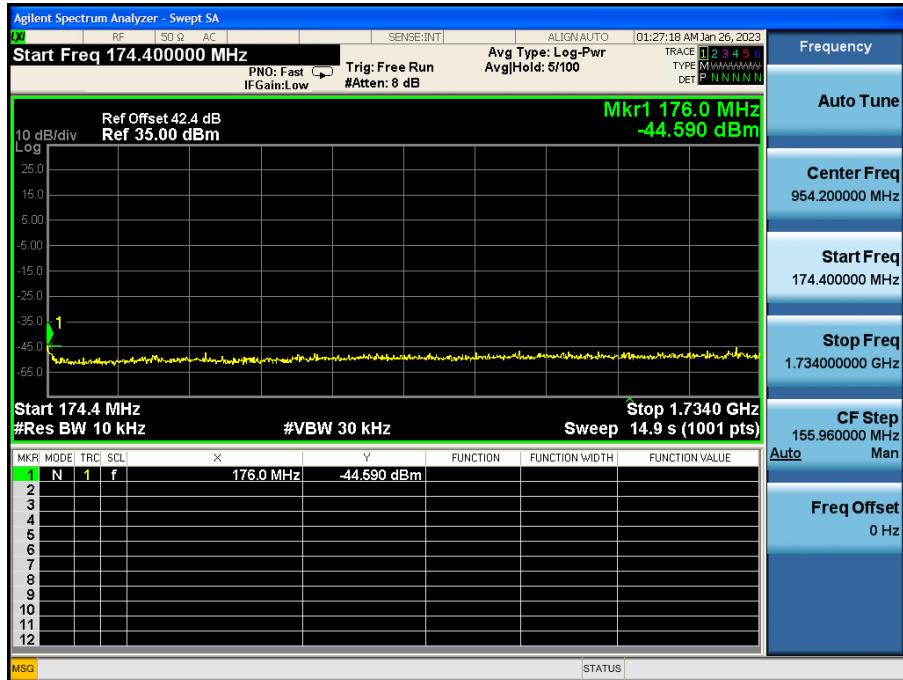
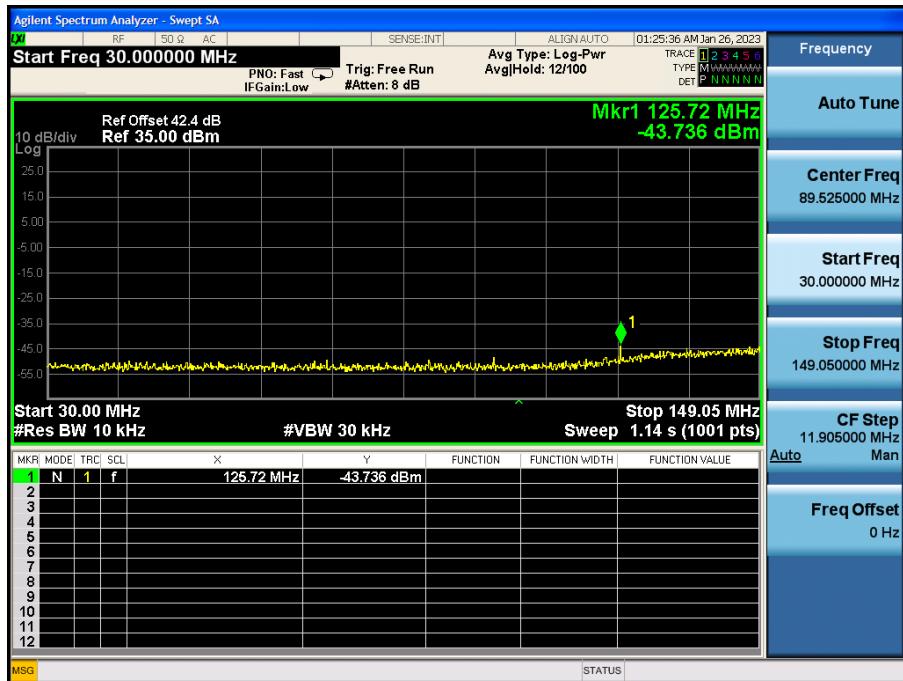


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Noise outside the passband

DL



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9 Frequency Stability

Frequency stability vs voltage							
Test path	Test Signal	Test Channel	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	TN	VL	3.3	0.02041	PASS
			TN	VH	3.3	0.02041	PASS
	DMR	MCH	TN	VL	2.4	0.01484	PASS
			TN	VH	2.4	0.01484	PASS
	C4FM	MCH	TN	VL	2.9	0.01793	PASS
			TN	VH	2.9	0.01793	PASS
	H-DQPSK	MCH	TN	VL	2.7	0.01670	PASS
			TN	VH	2.7	0.01670	PASS
	TETRA	MCH	TN	VL	2.1	0.01299	PASS
			TN	VH	2.1	0.01299	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
FM	MCH	MCH	VN	+50	3.2	0.01979	PASS
			VN	+40	1.3	0.00804	PASS
			VN	+30	1.8	0.01113	PASS
			VN	+20	2.5	0.01546	PASS
			VN	+10	2.4	0.01484	PASS
			VN	0	2.8	0.01731	PASS
			VN	-10	1.8	0.01113	PASS
			VN	-20	1.8	0.01113	PASS
			VN	-30	2.8	0.01731	PASS
DL	MDR	MCH	VN	+50	1.4	0.00866	PASS
			VN	+40	3.7	0.02288	PASS
			VN	+30	3.9	0.02412	PASS
			VN	+20	3.6	0.02226	PASS
			VN	+10	1.2	0.00742	PASS
			VN	0	1.6	0.00989	PASS
			VN	-10	3.2	0.01979	PASS
			VN	-20	3.7	0.02288	PASS
			VN	-30	2.2	0.01360	PASS
C4FM	MCH	MCH	VN	+50	3.6	0.02226	PASS
			VN	+40	2.6	0.01608	PASS
			VN	+30	1.7	0.01051	PASS
			VN	+20	1.7	0.01051	PASS
			VN	+10	2.1	0.01299	PASS
			VN	0	1.2	0.00742	PASS
			VN	-10	3.9	0.02412	PASS
			VN	-20	3.7	0.02288	PASS
			VN	-30	1.2	0.00742	PASS

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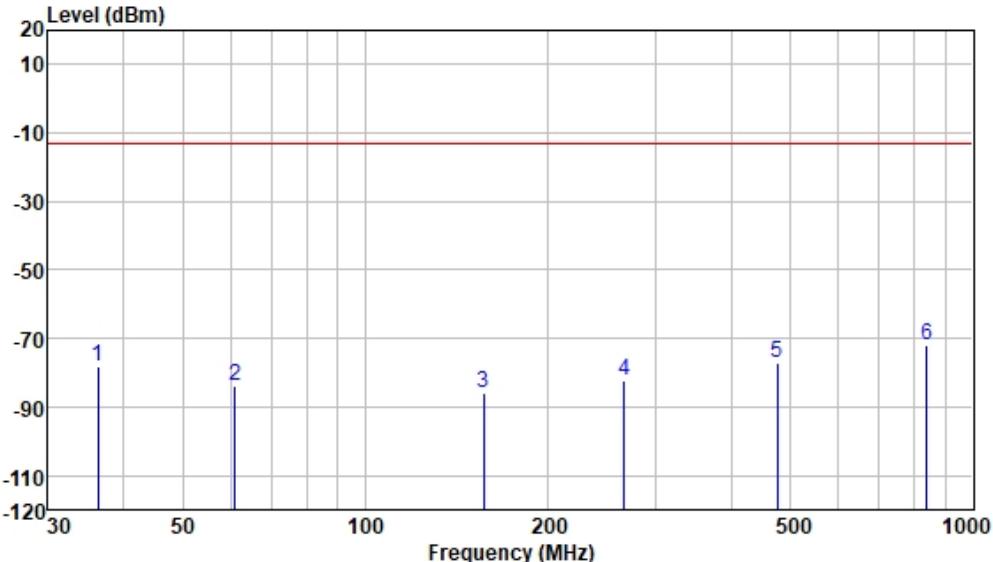
Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	D-HQPSK	MCH	VN	+50	1.4	0.00866	PASS
			VN	+40	1.7	0.01051	PASS
			VN	+30	3.2	0.01979	PASS
			VN	+20	3.1	0.01917	PASS
			VN	+10	2.5	0.01546	PASS
			VN	0	1.5	0.00928	PASS
			VN	-10	1.6	0.00989	PASS
			VN	-20	3.3	0.02041	PASS
			VN	-30	3.3	0.02041	PASS
			VN	+50	1.6	0.00989	PASS
TRTRA	TRTRA	MCH	VN	+40	3.4	0.02102	PASS
			VN	+30	3.3	0.02041	PASS
			VN	+20	3.4	0.02102	PASS
			VN	+10	3.0	0.01855	PASS
			VN	0	3.3	0.02041	PASS
			VN	-10	1.5	0.00928	PASS
			VN	-20	1.7	0.01051	PASS
			VN	-30	3.1	0.01917	PASS

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10 Radiated Spurious emissions below 1GHz

Radiated Spurious emissions																																																																				
DL_CW_MCH_30MHz-1GHz_Horizontal																																																																				
																																																																				
<table><thead><tr><th>Freq</th><th>Read Level</th><th>Correction Factor</th><th>Limit Level</th><th>Over Line</th><th>Over Limit</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>36.25</td><td>-80.60</td><td>2.67</td><td>-77.93</td><td>-13.00</td><td>-64.93</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>60.92</td><td>-81.08</td><td>-2.75</td><td>-83.83</td><td>-13.00</td><td>-70.83</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>156.46</td><td>-79.27</td><td>-6.58</td><td>-85.85</td><td>-13.00</td><td>-72.85</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>266.61</td><td>-78.79</td><td>-3.35</td><td>-82.14</td><td>-13.00</td><td>-69.14</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>475.50</td><td>-77.30</td><td>0.34</td><td>-76.96</td><td>-13.00</td><td>-63.96</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>839.18</td><td>-79.15</td><td>7.19</td><td>-71.96</td><td>-13.00</td><td>-58.96</td><td>HORIZONTAL</td></tr></tbody></table>							Freq	Read Level	Correction Factor	Limit Level	Over Line	Over Limit	Pol/Phase	MHz	dBm	dB	dBm	dBm	dB		1	36.25	-80.60	2.67	-77.93	-13.00	-64.93	HORIZONTAL	2	60.92	-81.08	-2.75	-83.83	-13.00	-70.83	HORIZONTAL	3	156.46	-79.27	-6.58	-85.85	-13.00	-72.85	HORIZONTAL	4	266.61	-78.79	-3.35	-82.14	-13.00	-69.14	HORIZONTAL	5	475.50	-77.30	0.34	-76.96	-13.00	-63.96	HORIZONTAL	6	839.18	-79.15	7.19	-71.96	-13.00	-58.96	HORIZONTAL
Freq	Read Level	Correction Factor	Limit Level	Over Line	Over Limit	Pol/Phase																																																														
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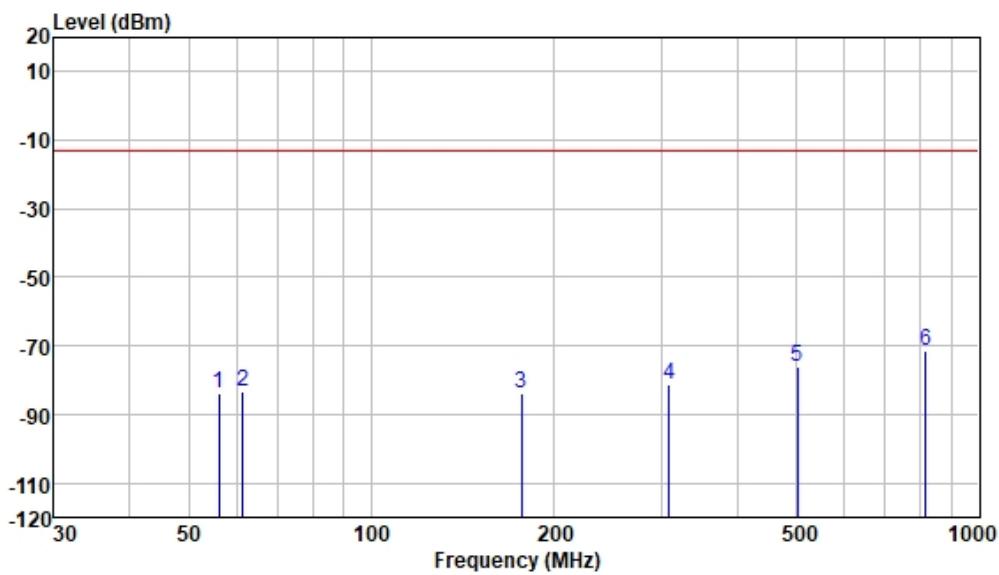
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Radiated Spurious emissions**DL_CW_MCH_30MHz-1GHz_Vertical**

Freq	Read	Correction	Limit	Over	Pol/Phase		
	MHz	Level	Factor	Level		Line	Limit
	MHz	dBm	dB	dBm	dBm	dB	
1	56.00	-80.32	-3.59	-83.91	-13.00	-70.91	VERTICAL
2	61.35	-80.90	-2.67	-83.57	-13.00	-70.57	VERTICAL
3	176.27	-79.75	-3.94	-83.69	-13.00	-70.69	VERTICAL
4	308.91	-78.64	-2.63	-81.27	-13.00	-68.27	VERTICAL
5	502.94	-77.64	1.68	-75.96	-13.00	-62.96	VERTICAL
6	815.97	-79.11	7.57	-71.54	-13.00	-58.54	VERTICAL

Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



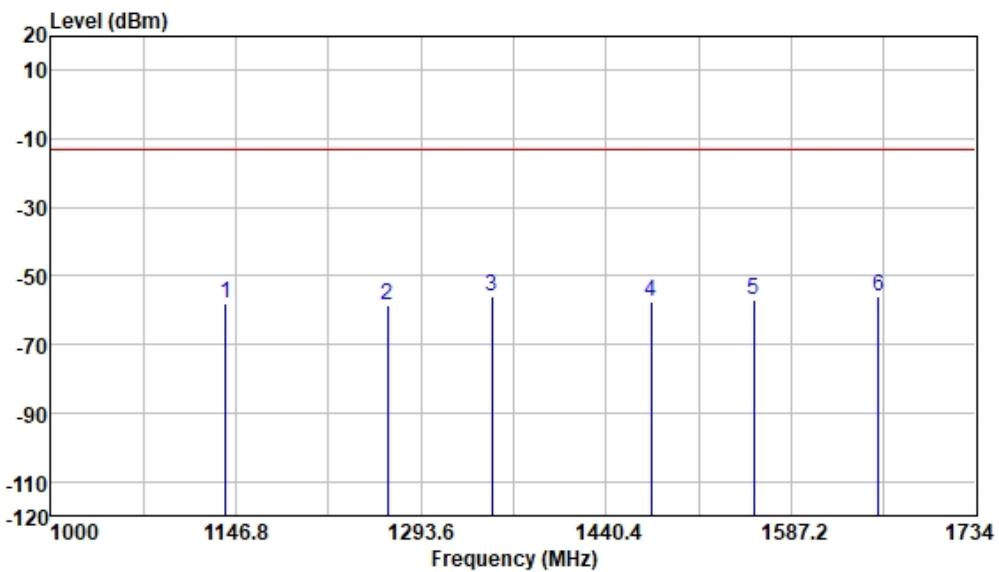
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11 Radiated Spurious emissions above 1GHz

Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Horizontal

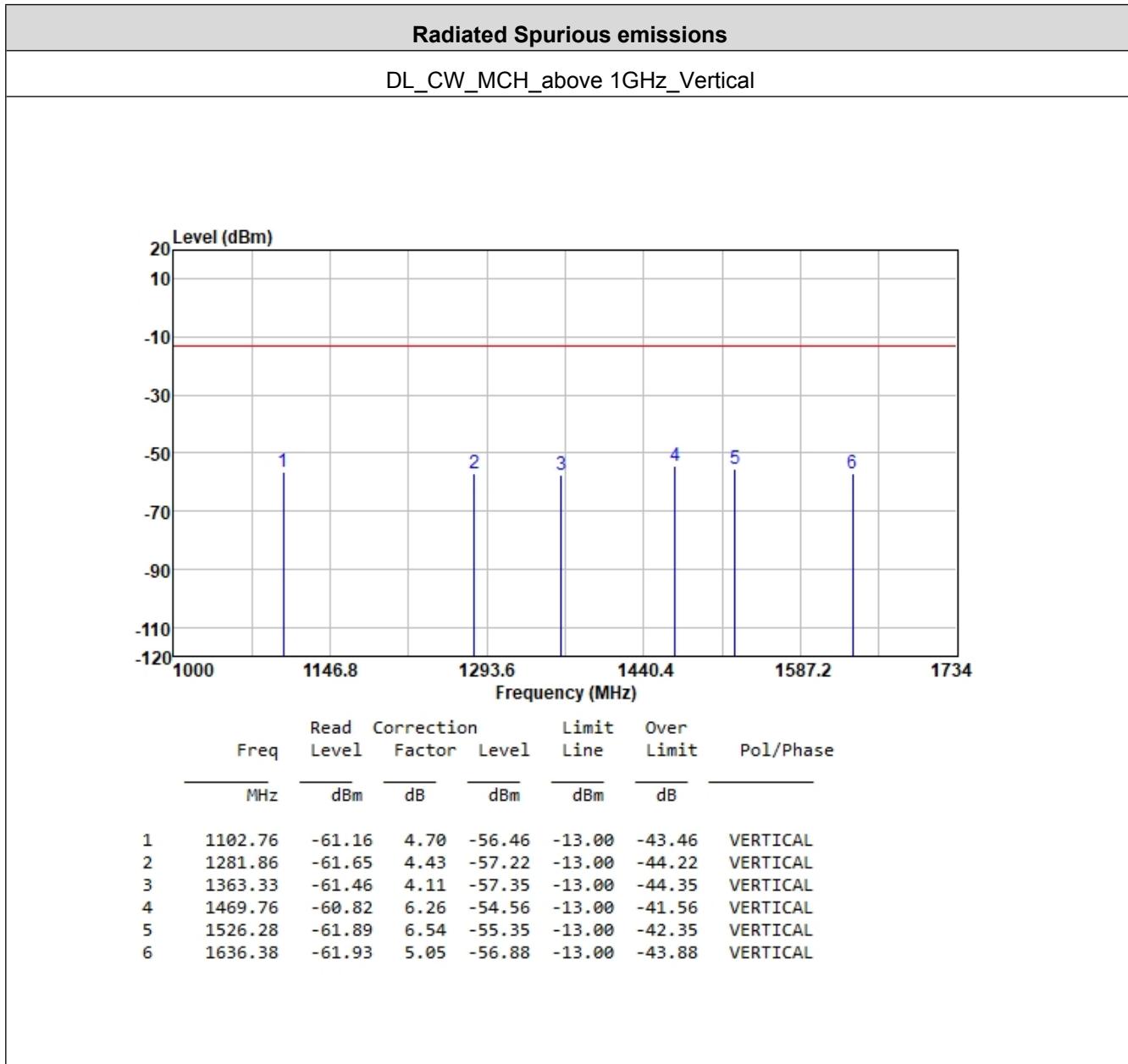


Freq	Read	Correction	Limit	Over	Pol/Phase		
	Level	Factor	Level	Line			
	MHz	dB	dBm	dBm	dB		
1	1138.73	-62.02	3.81	-58.21	-13.00	-45.21	HORIZONTAL
2	1267.18	-62.70	4.06	-58.64	-13.00	-45.64	HORIZONTAL
3	1350.12	-60.05	4.26	-55.79	-13.00	-42.79	HORIZONTAL
4	1476.37	-61.97	4.70	-57.27	-13.00	-44.27	HORIZONTAL
5	1557.84	-62.11	5.01	-57.10	-13.00	-44.10	HORIZONTAL
6	1656.20	-62.03	5.90	-56.13	-13.00	-43.13	HORIZONTAL



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--End of Appendix--



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