



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

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FCC ID: P8XRH14V3-A

Appendix -

Test Data and Result for report

GZCR250400053501 (D)

(For UHF-3: 450-512MHz)



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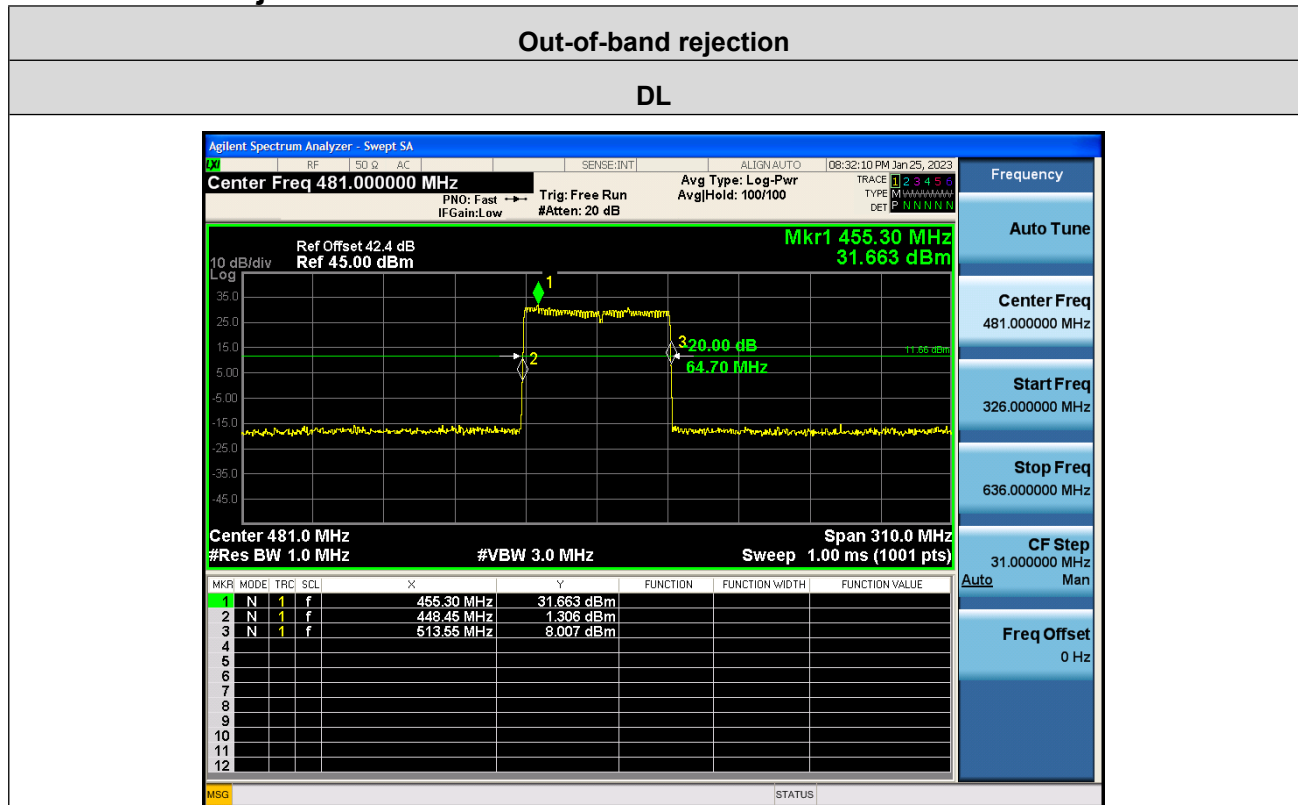
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Laboratory

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1 Out-of-band rejection



1. The peak of the frequency response f_0 is 455.3MHz.
2. The frequency point f_0 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	-58.75dBm
	DMR	MCH	-58.75dBm
	C4FM	MCH	-58.70dBm
	H-DQPSK	MCH	-58.70dBm
	TETRA	MCH	-58.80dBm

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
	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.				

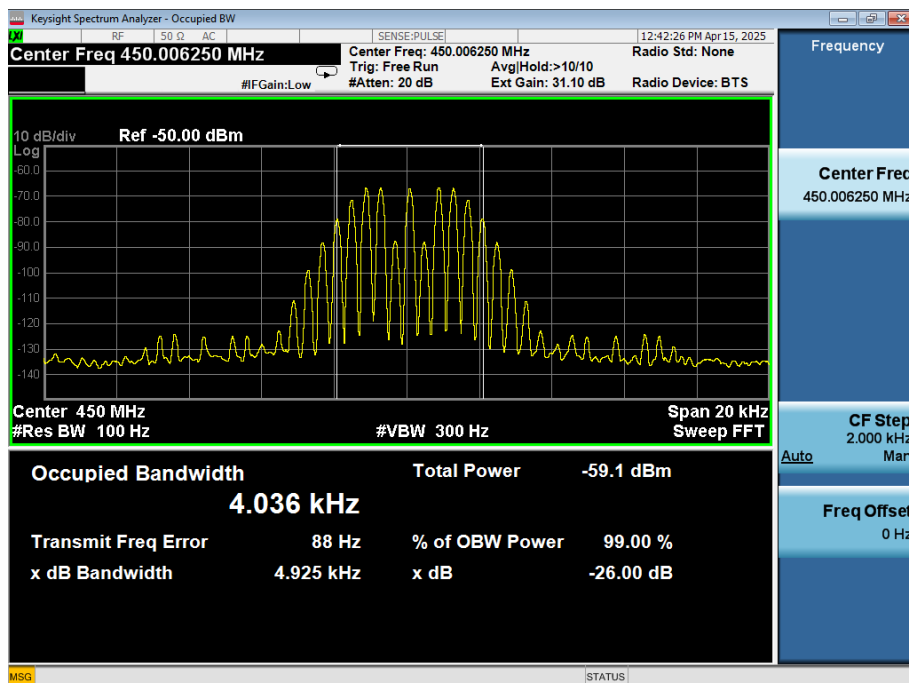


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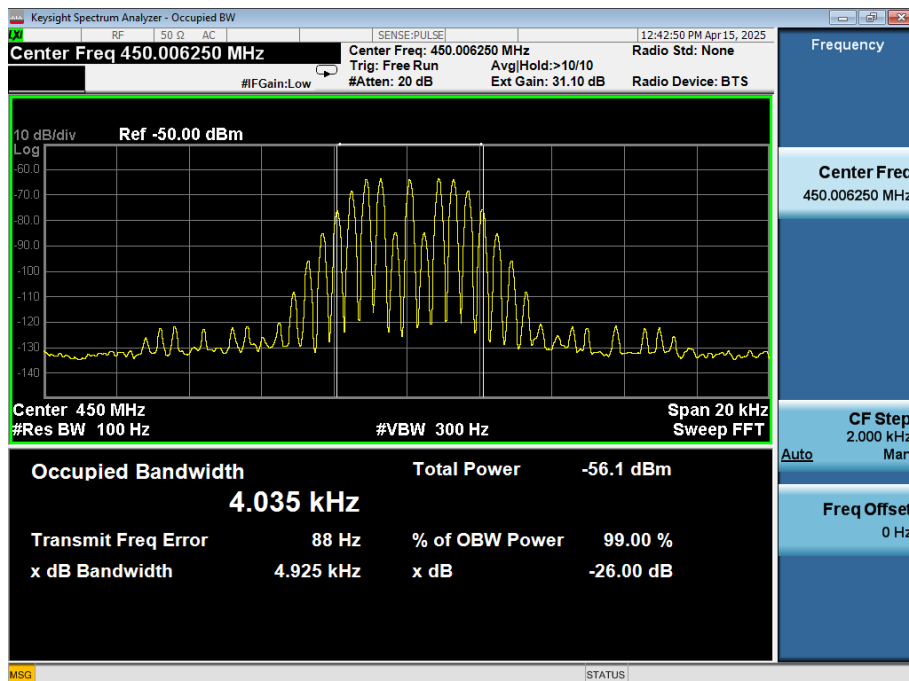
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DL_FM_LCH_Input_Pre-AGC



DL_FM_LCH_Input_3dB above AGC

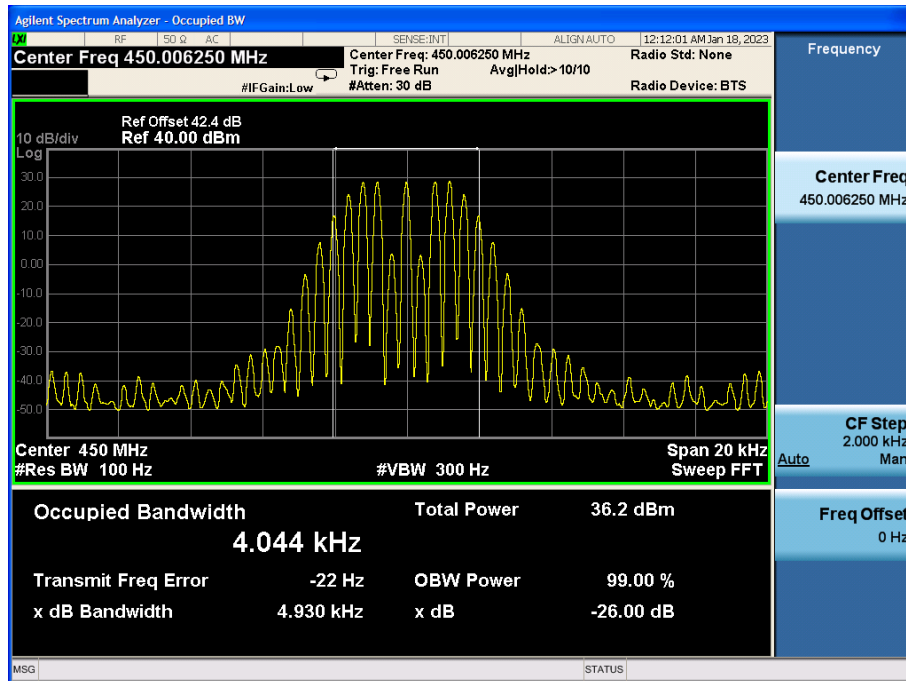


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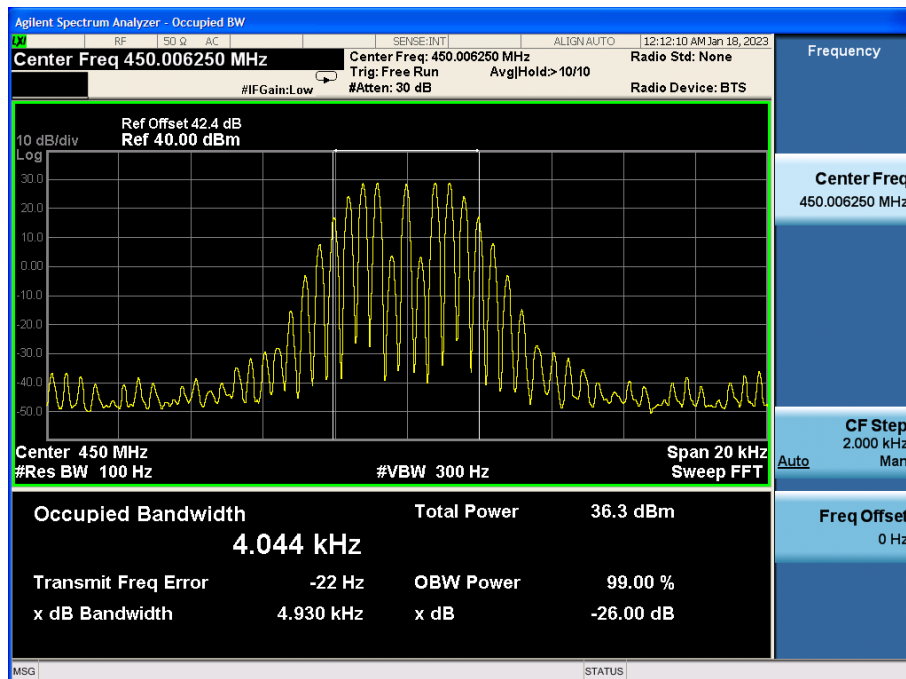
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DL_FM_LCH_Output_Pre-AGC



DL_FM_LCH_Output_3dB above AGC

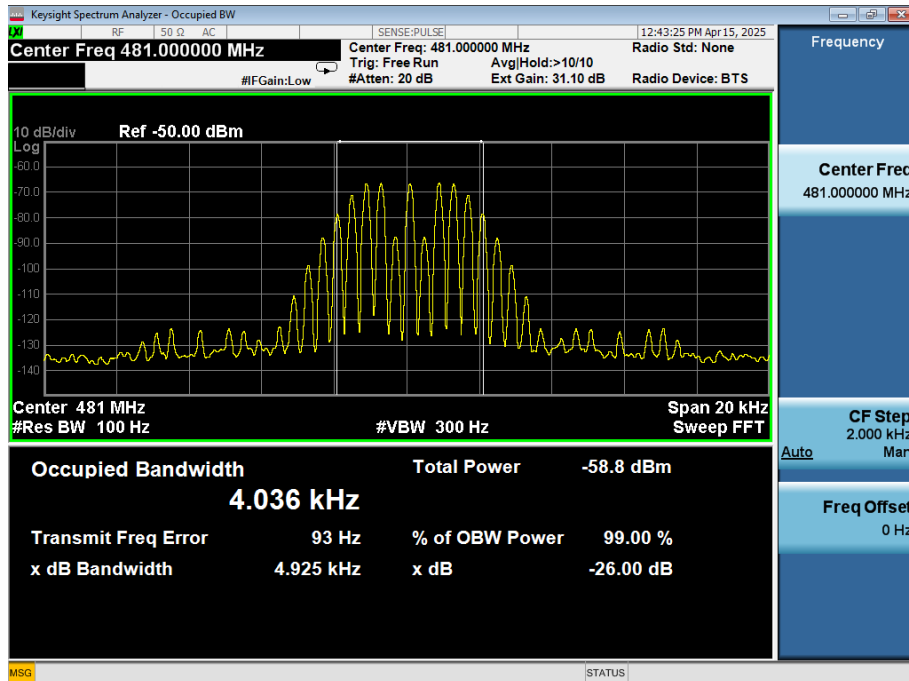


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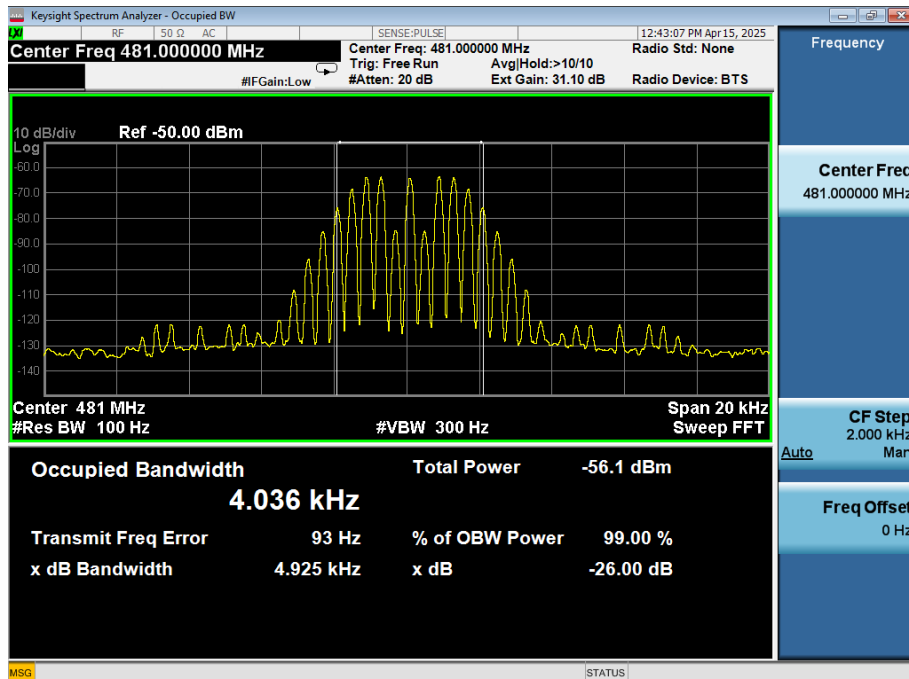
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DL_FM_MCH_Input_Pre-AGC



DL_FM_MCH_Input_3dB above AGC

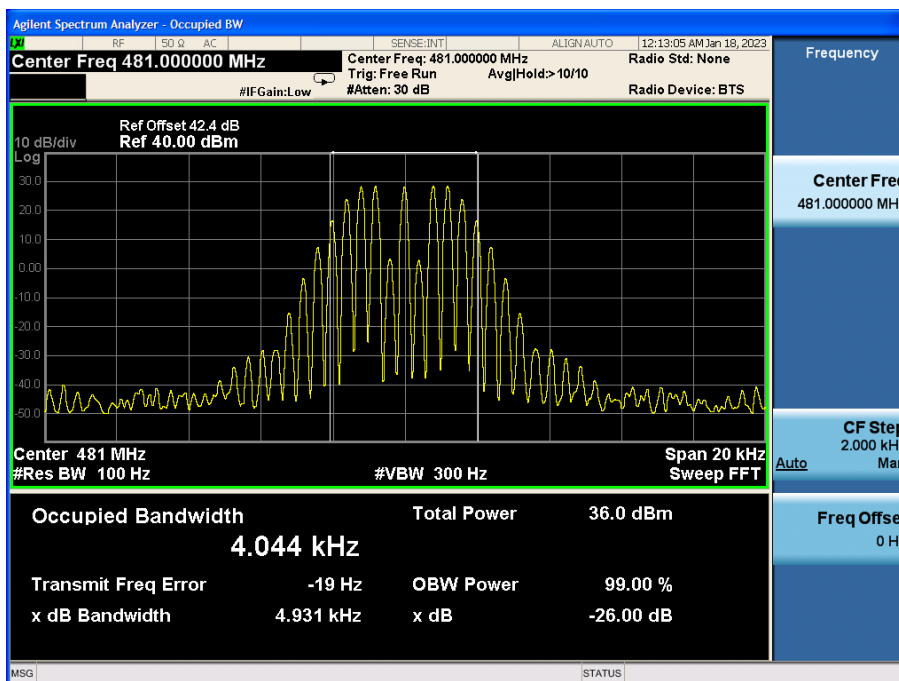


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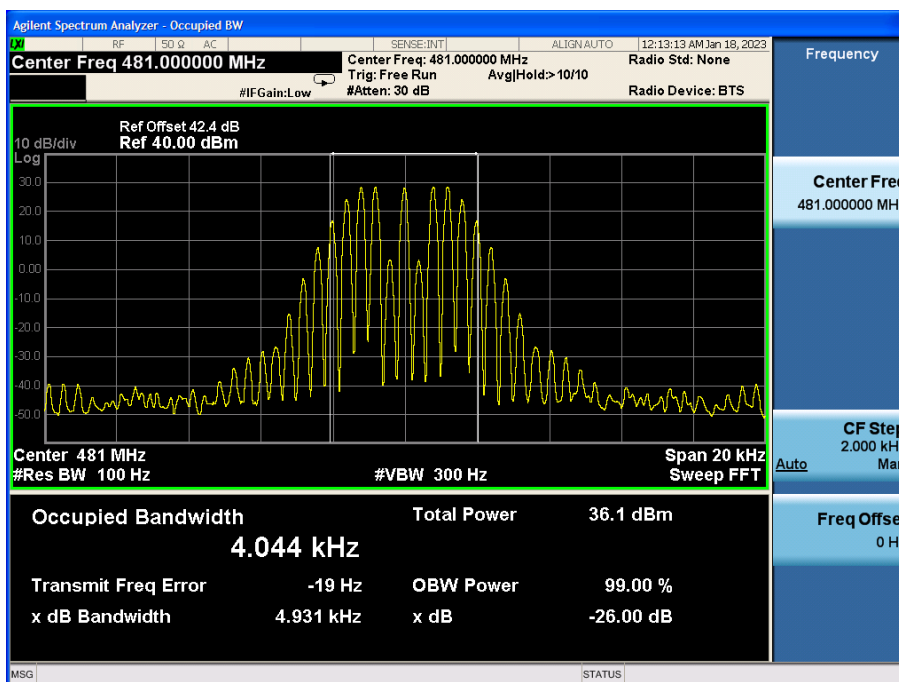
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DL_FM_MCH_Output_Pre-AGC



DL_FM_MCH_Output_3dB above AGC

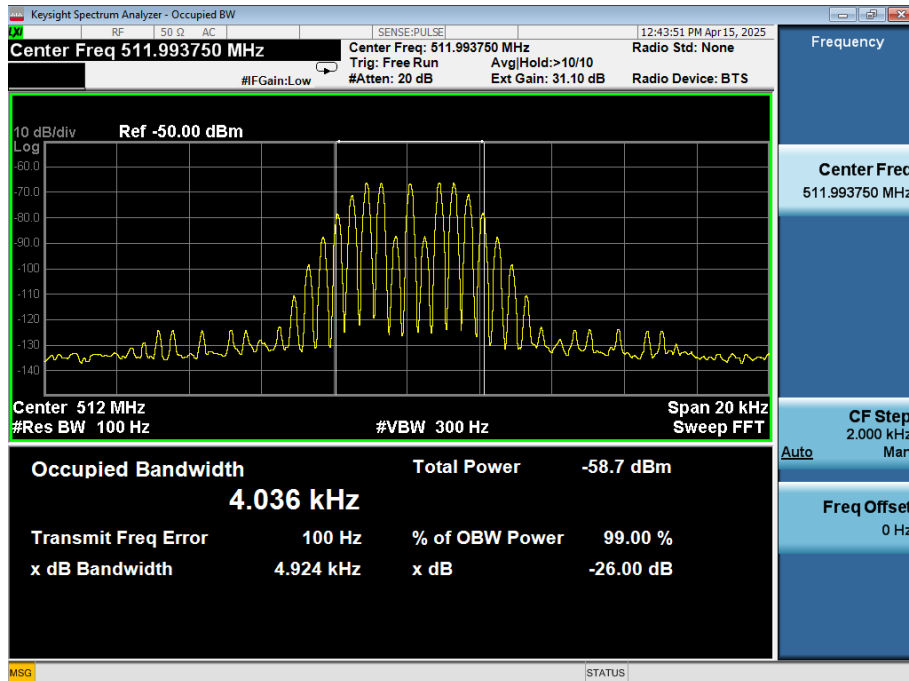


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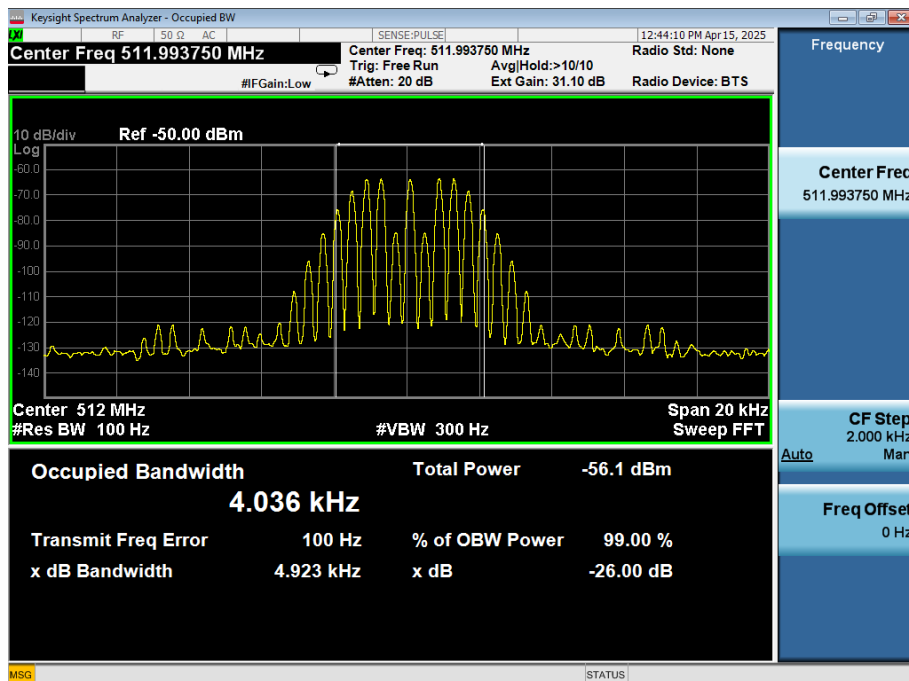
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DL_FM_HCH_Input_Pre-AGC



DL_FM_HCH_Input_3dB above AGC

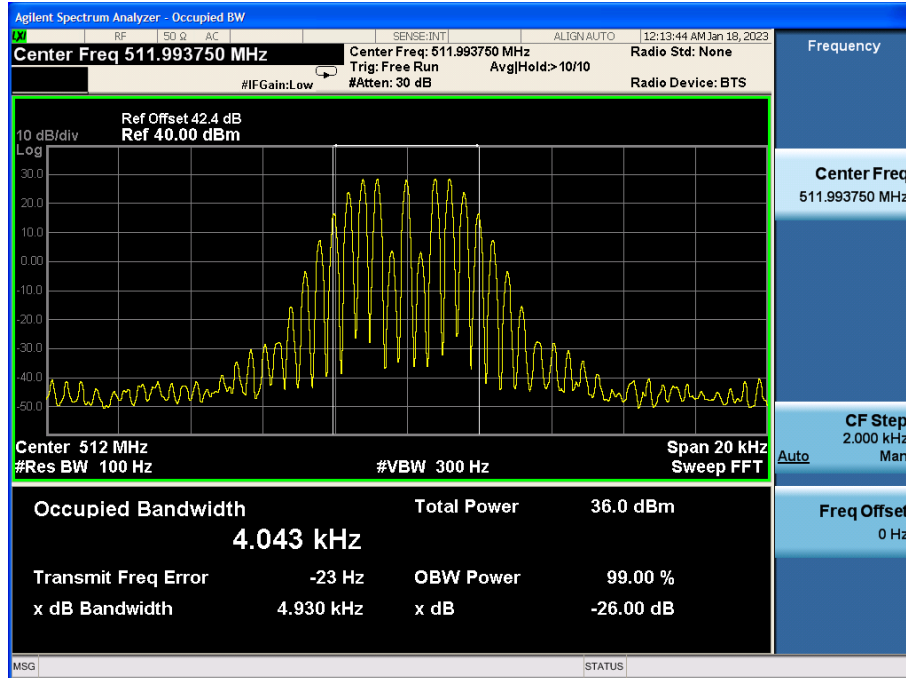


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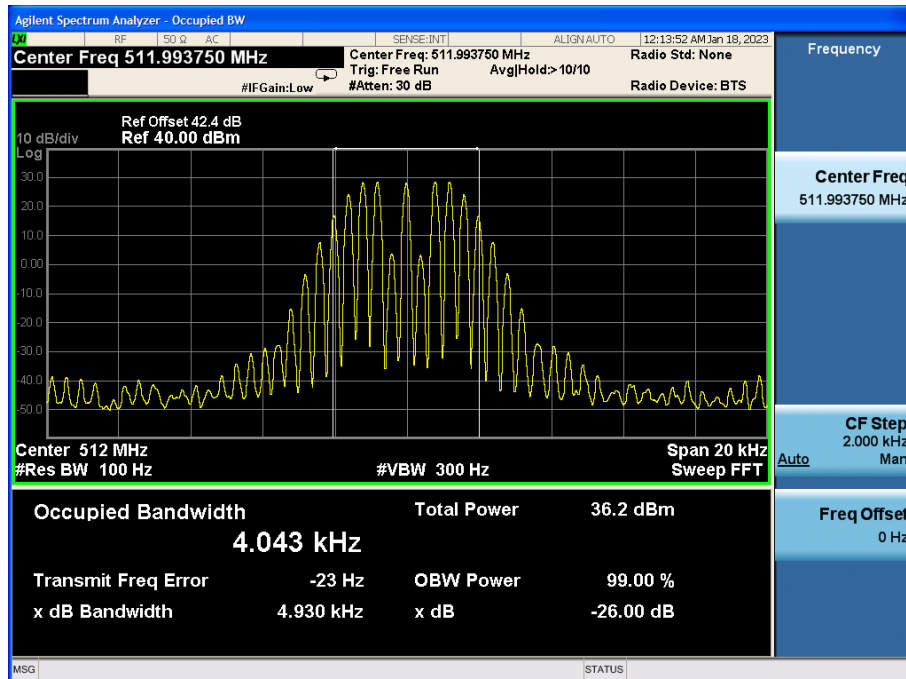
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DL_FM_HCH_Output_Pre-AGC



DL_FM_HCH_Output_3dB above AGC

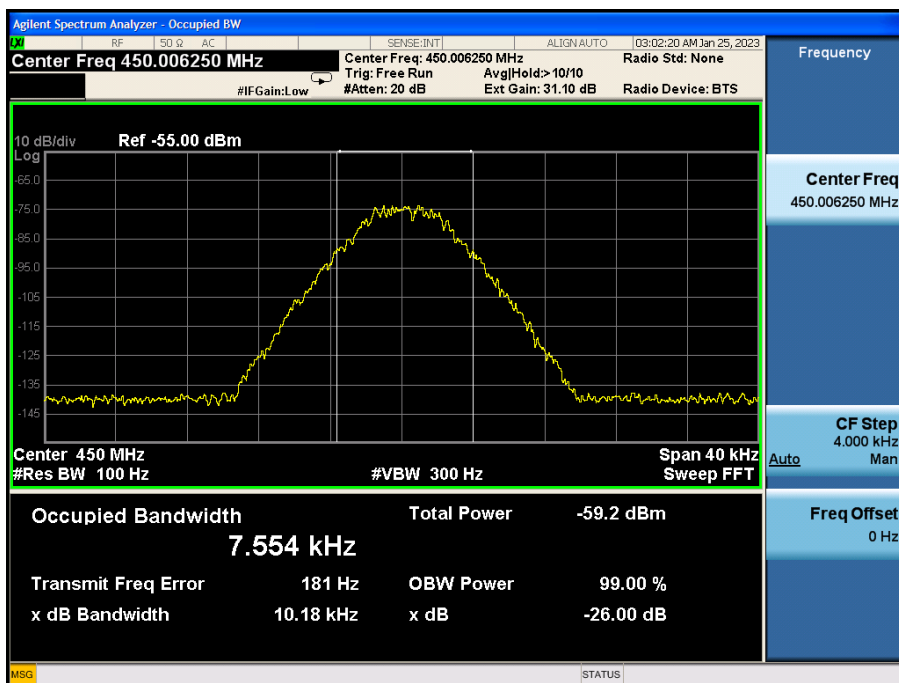


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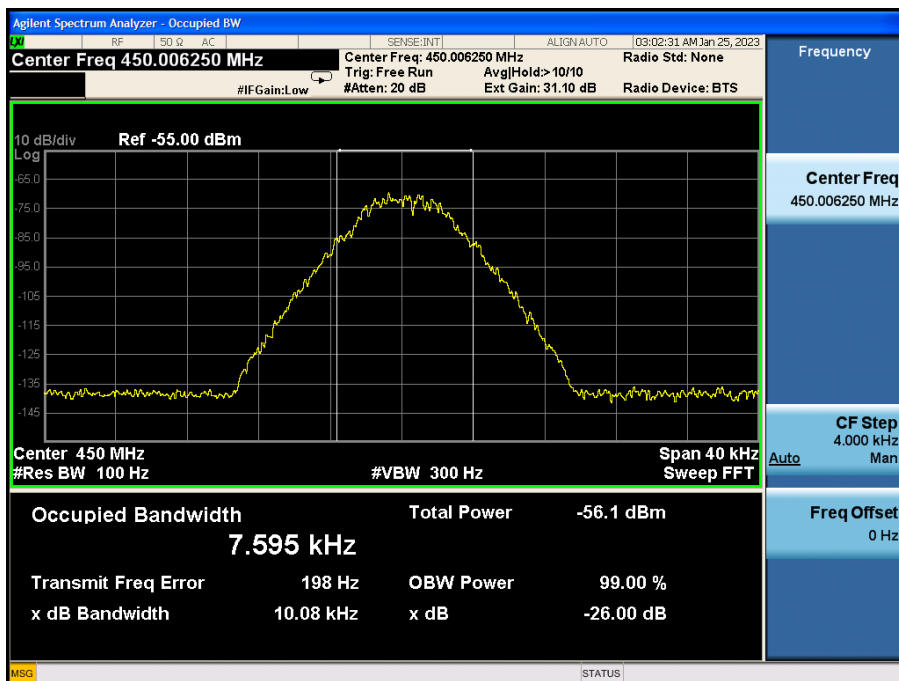
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DL_DMR_LCH_Input_Pre-AGC



DL_DMR_LCH_Input_3dB above AGC

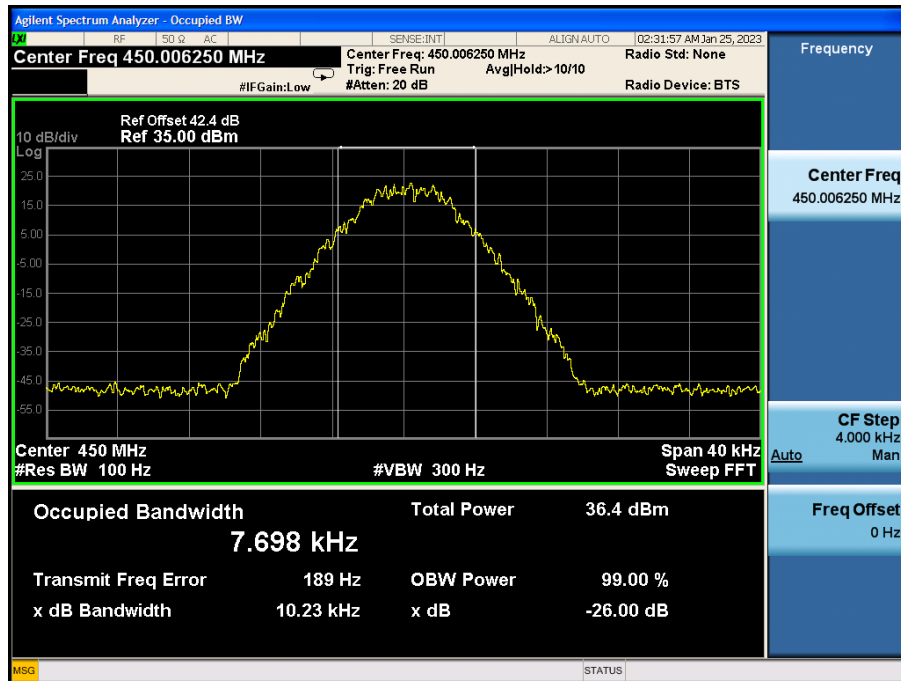


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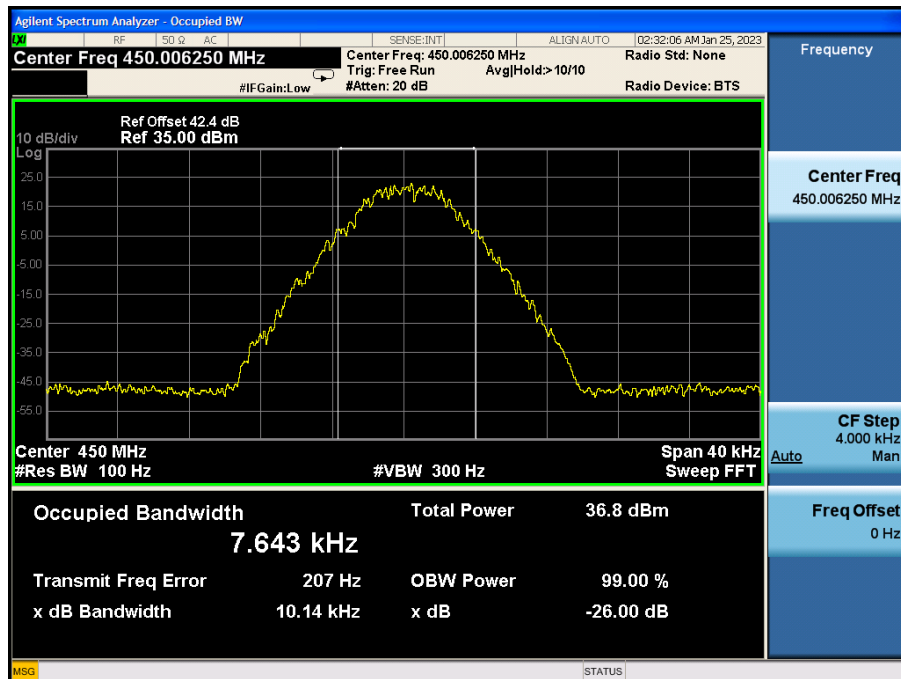
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DL_DMR_LCH_Output_Pre-AGC

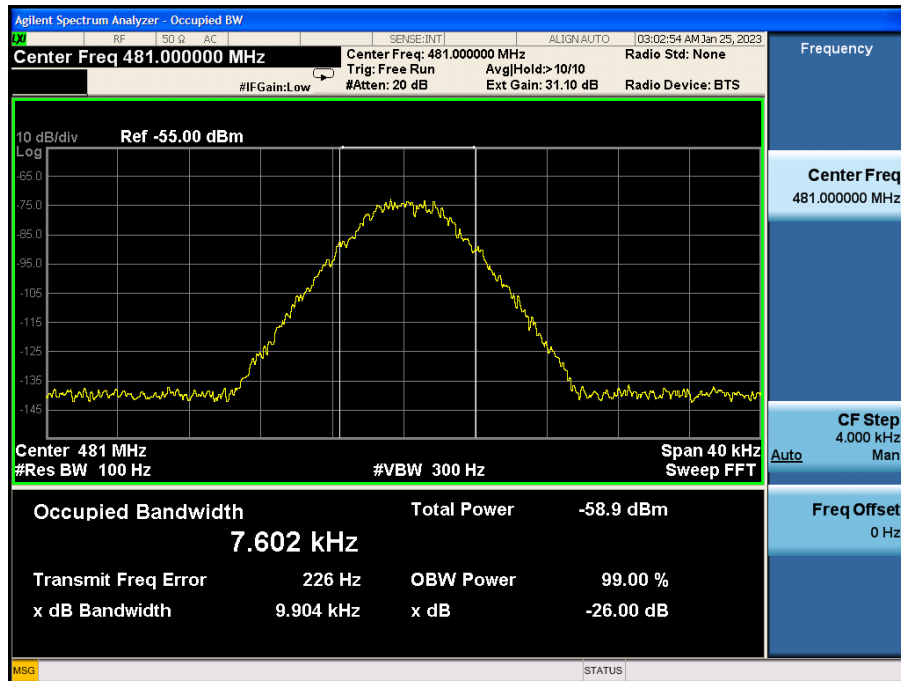


DL_DMR_LCH_Output_3dB above AGC

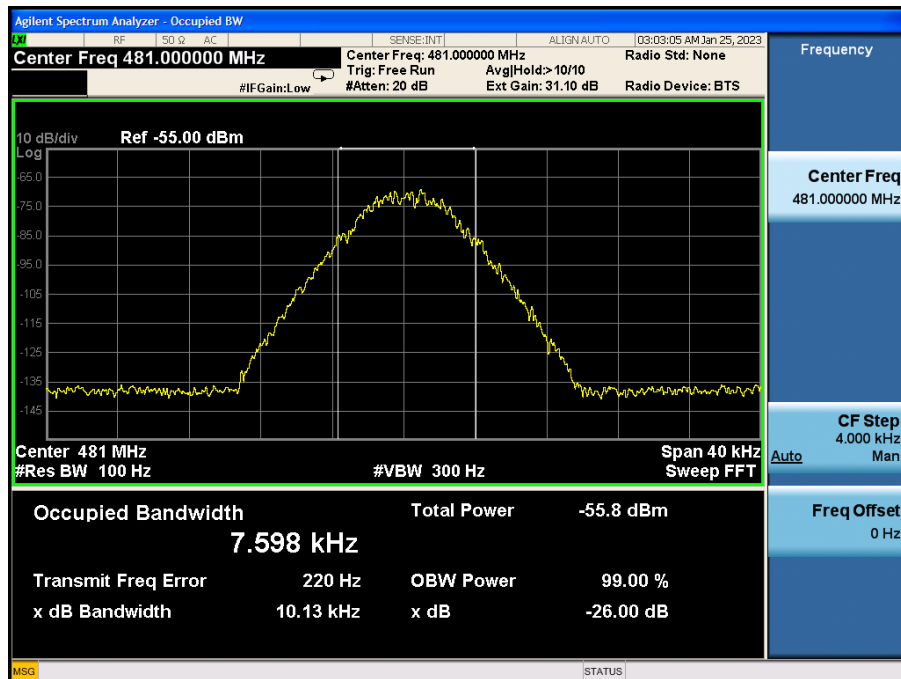


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DL_DMR_MCH_Input_Pre-AGC



DL_DMR_MCH_Input_3dB above AGC

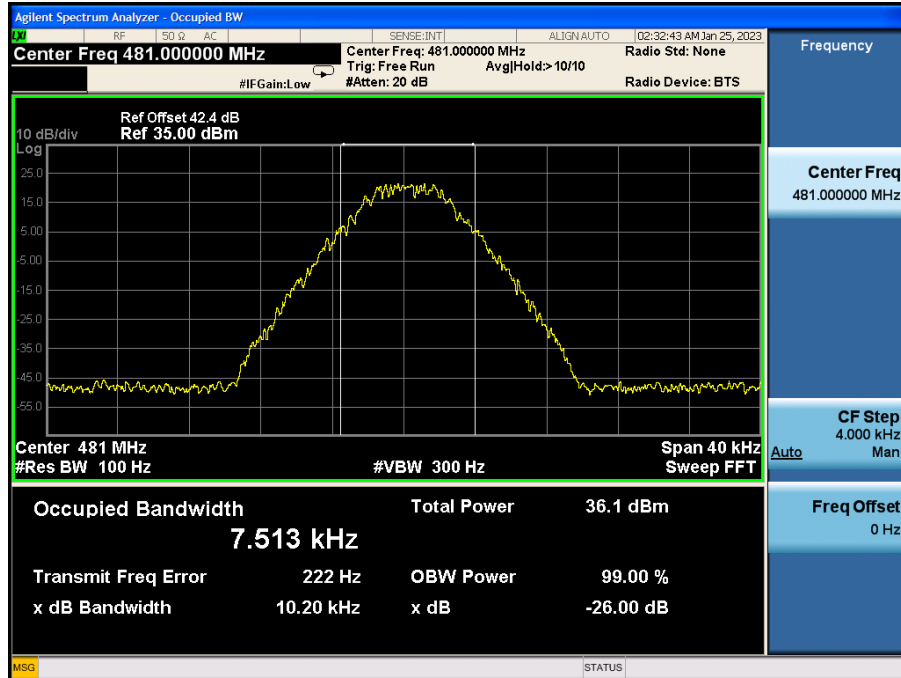


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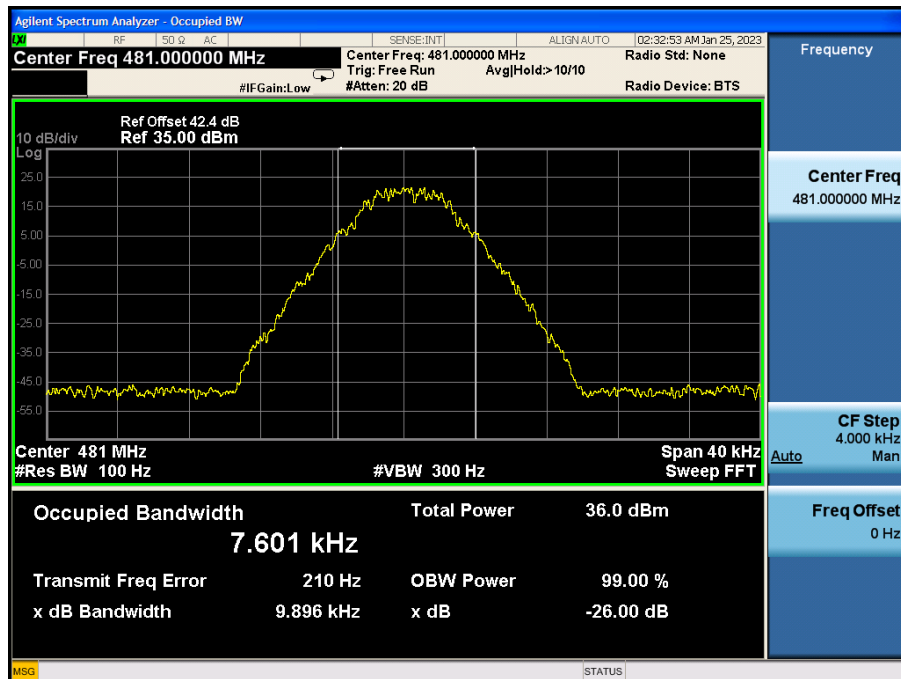
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DL_DMR_MCH_Output_Pre-AGC



DL_DMR_MCH_Output_3dB above AGC

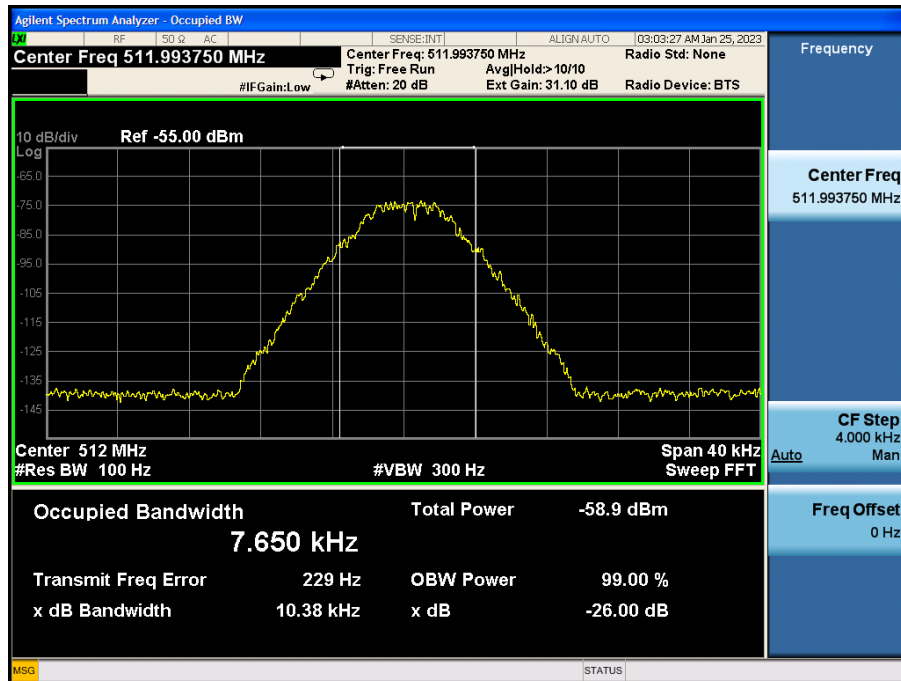


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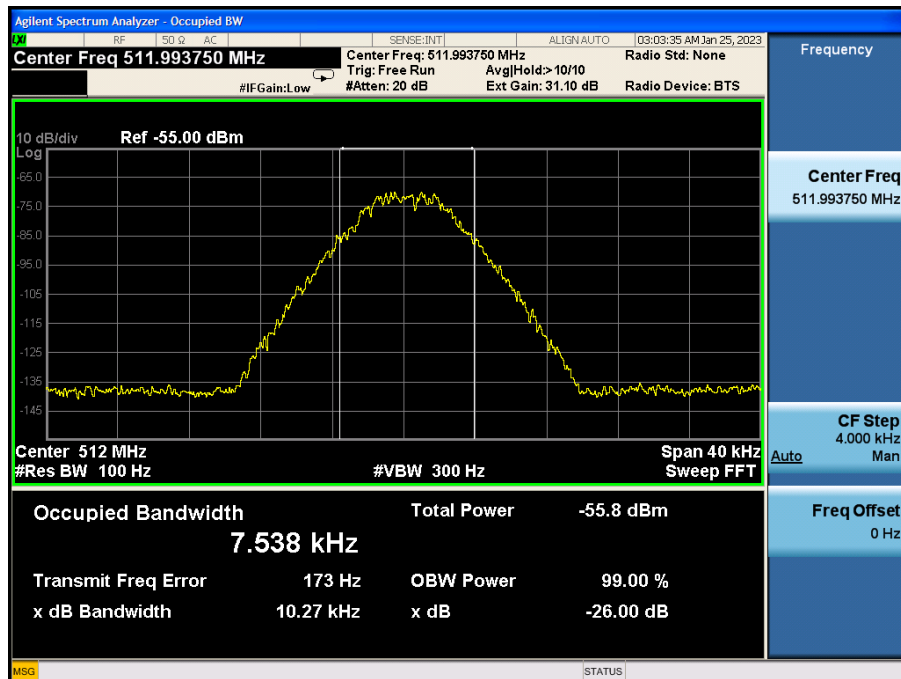
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DL_DMR_HCH_Input_Pre-AGC



DL_DMR_HCH_Input_3dB above AGC

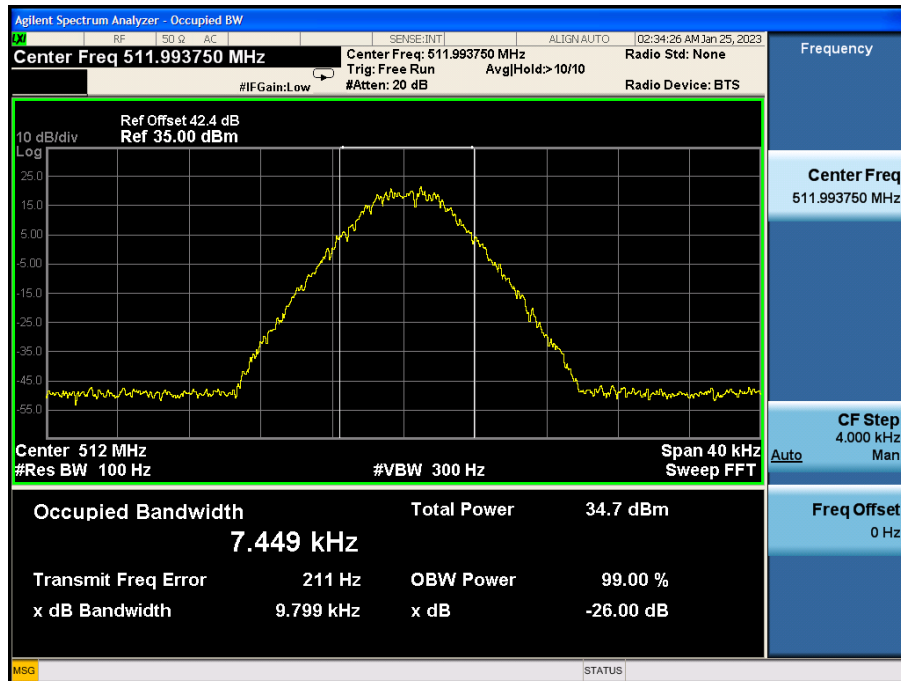


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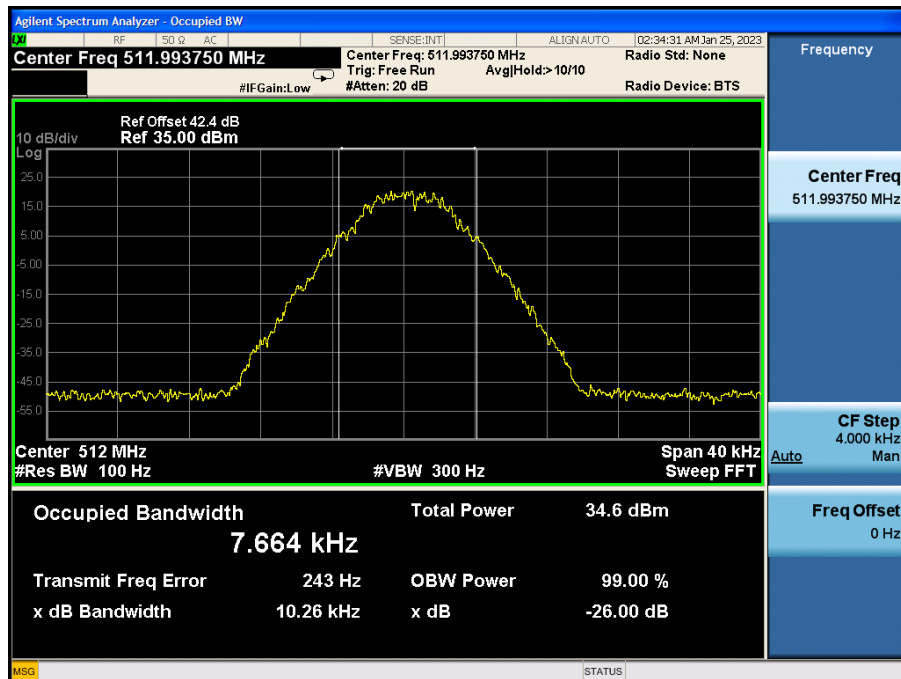
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DL_DMR_HCH_Output_Pre-AGC



DL_DMR_HCH_Output_3dB above AGC

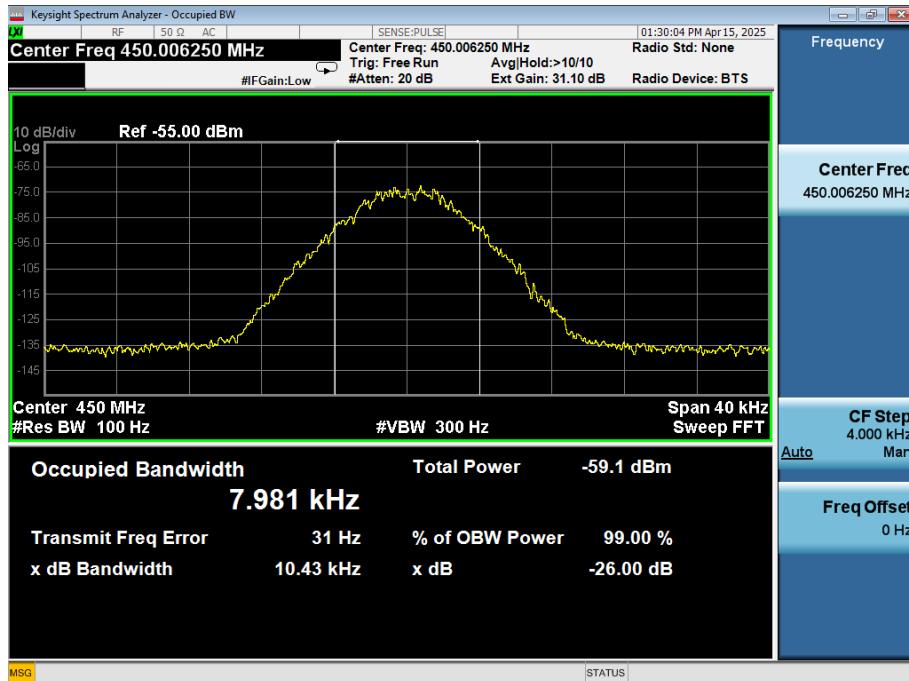


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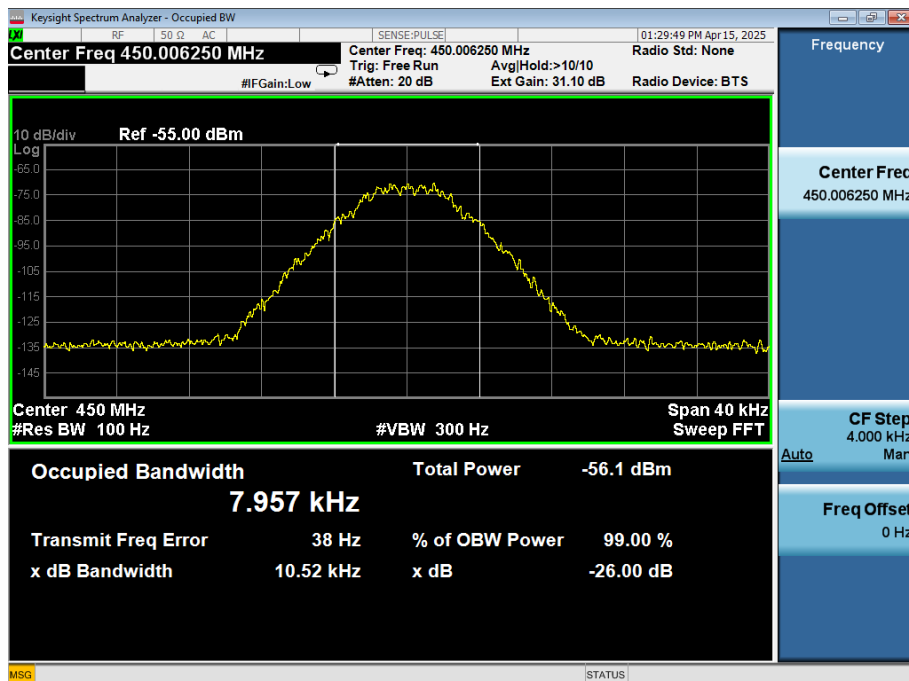
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DL_C4FM_LCH_Input_Pre-AGC



DL_C4FM_LCH_Input_3dB above AGC

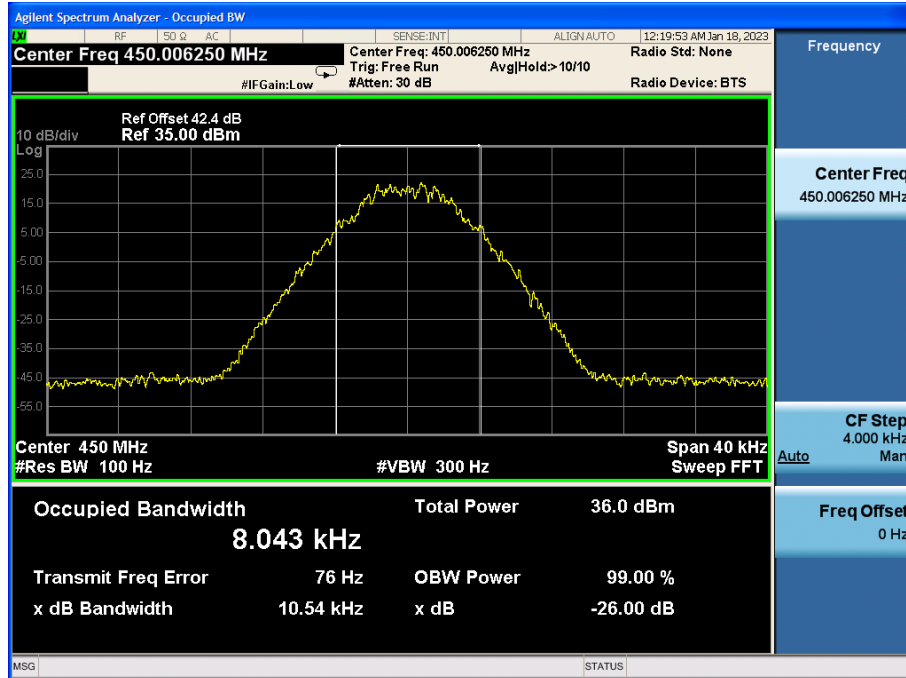


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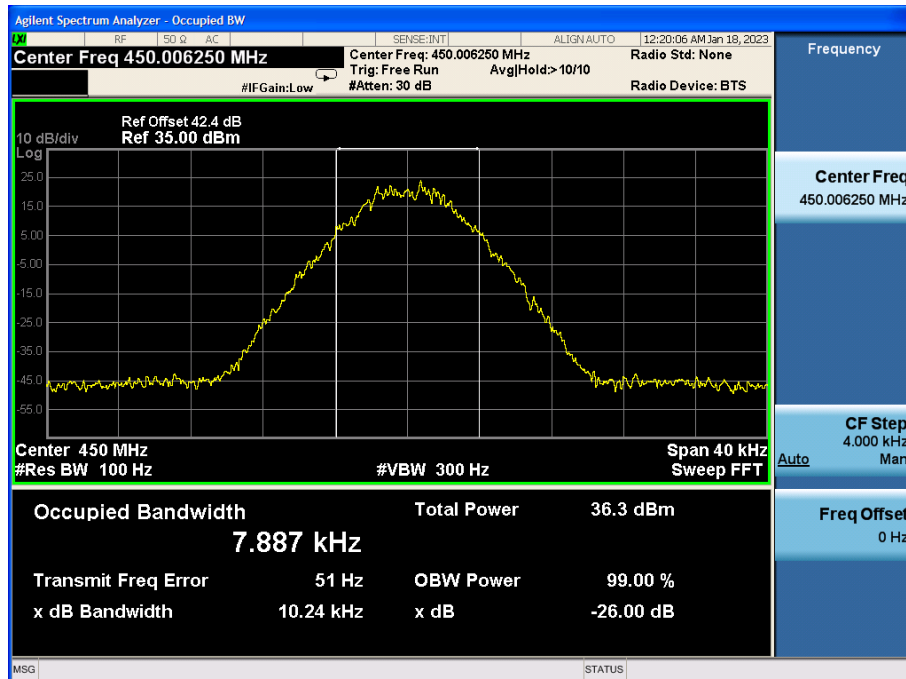
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DL_C4FM_LCH_Output_Pre-AGC



DL_C4FM_LCH_Output_3dB above AGC

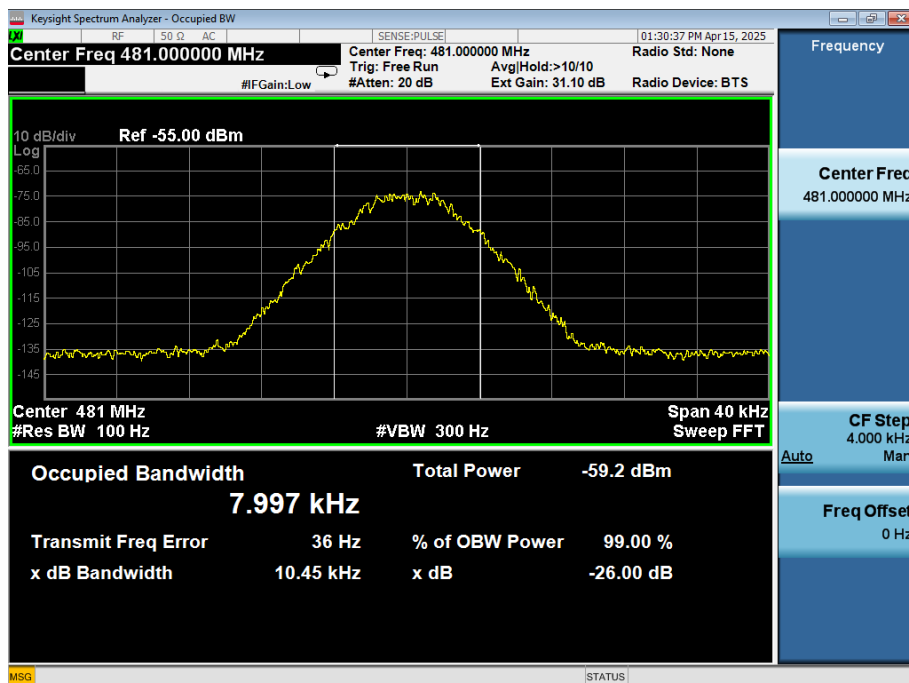


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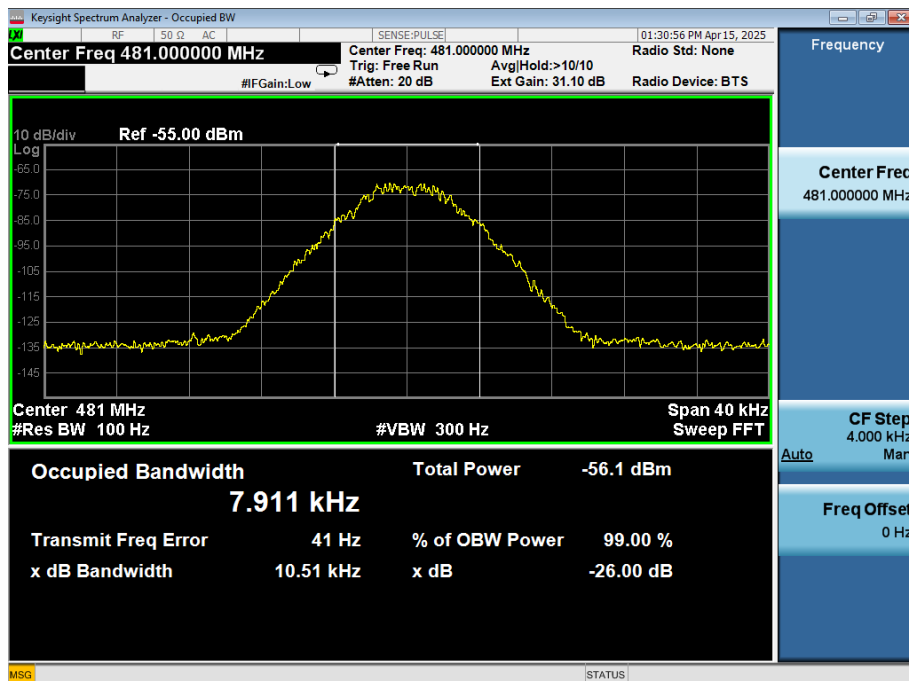
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99% OBW

DL_C4FM_MCH_Input_Pre-AGC



DL_C4FM_MCH_Input_3dB above AGC



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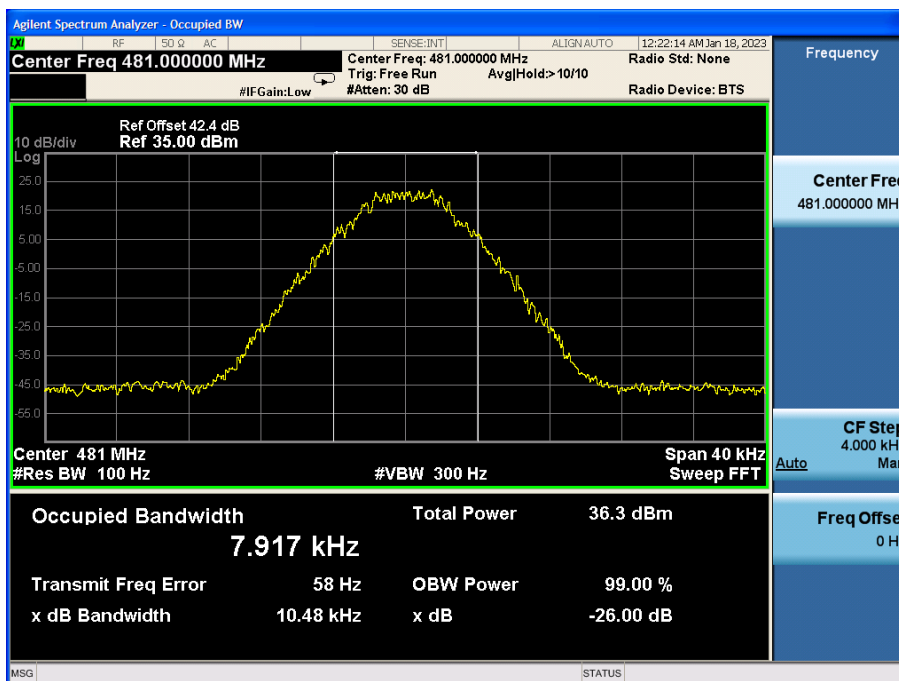
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Testing Services Co., Ltd. EMC Laboratory

No. 198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

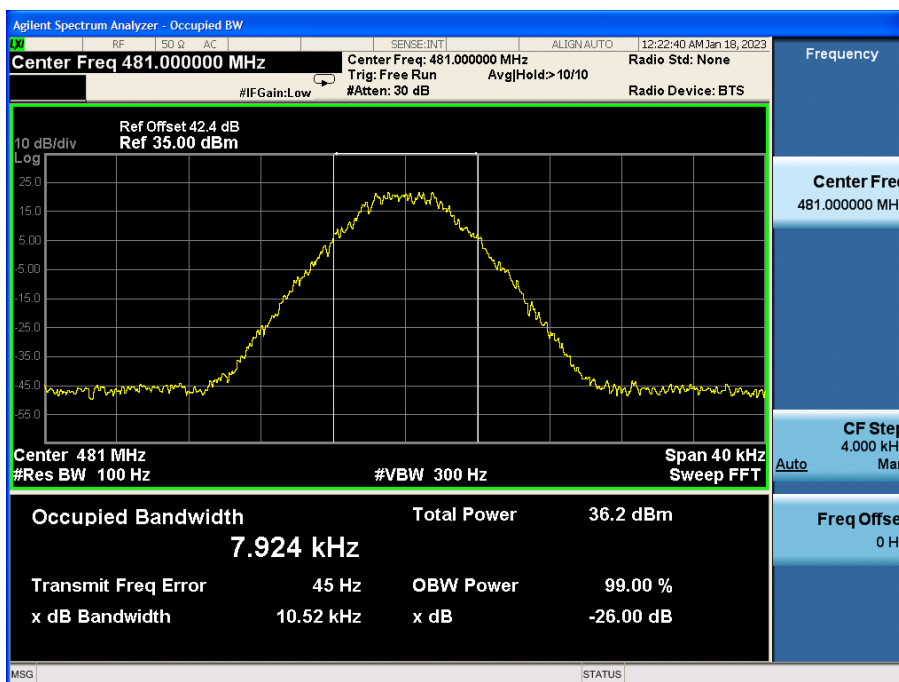
t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

99% OBW

DL_C4FM_MCH_Output_Pre-AGC



DL_C4FM_MCH_Output_3dB above AGC

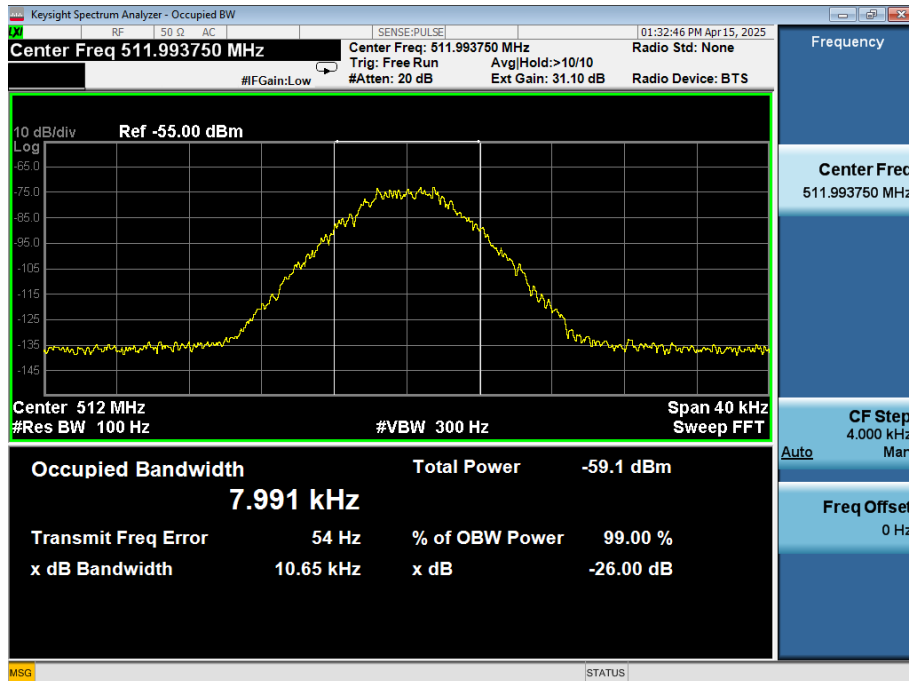


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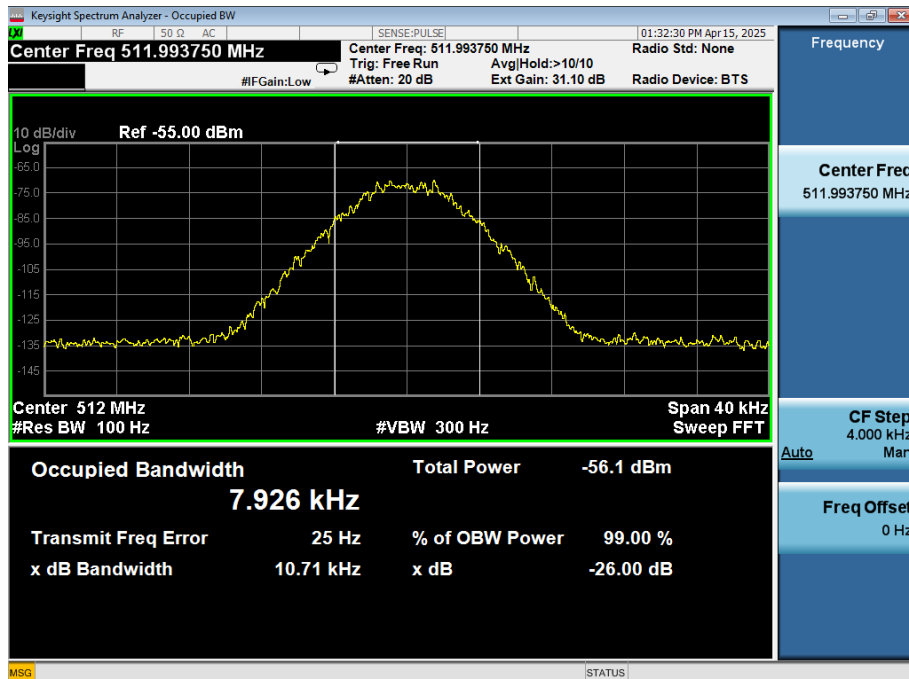
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99% OBW

DL_C4FM_HCH_Input_Pre-AGC



DL_C4FM_HCH_Input_3dB above AGC

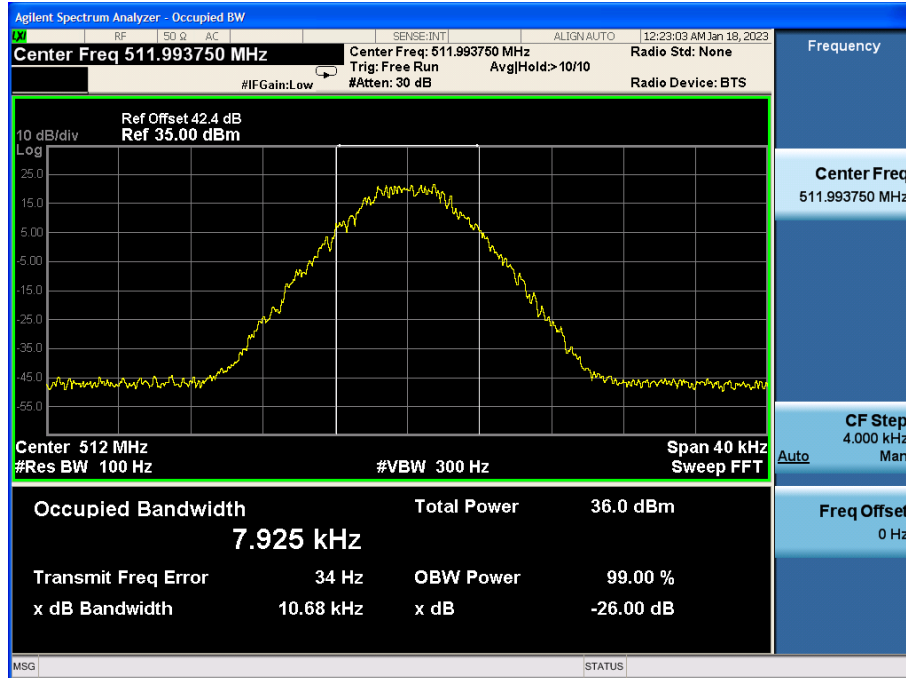


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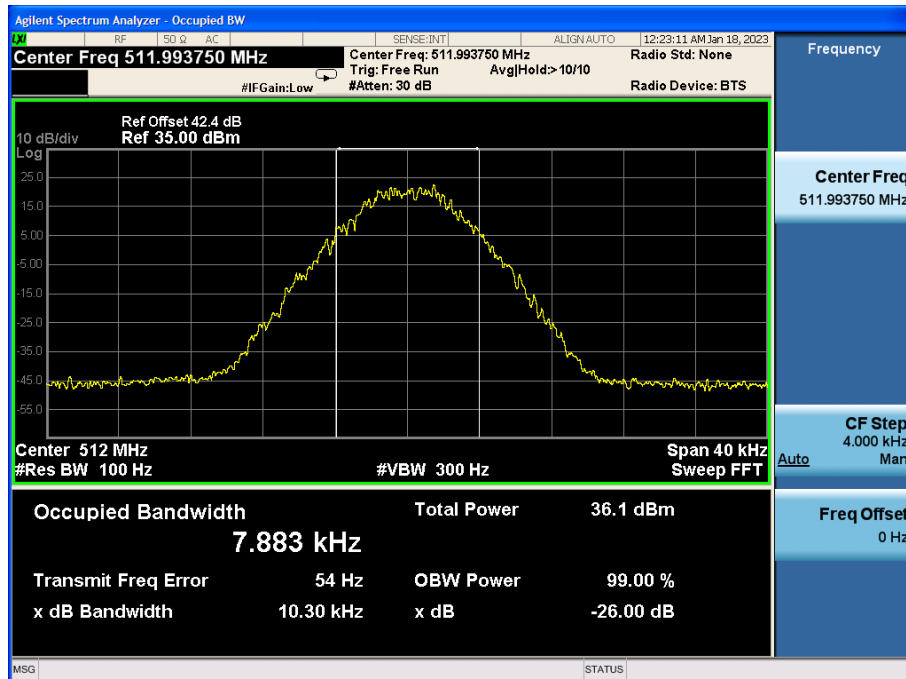
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99% OBW

DL_C4FM_HCH_Output_Pre-AGC



DL_C4FM_HCH_Output_3dB above AGC

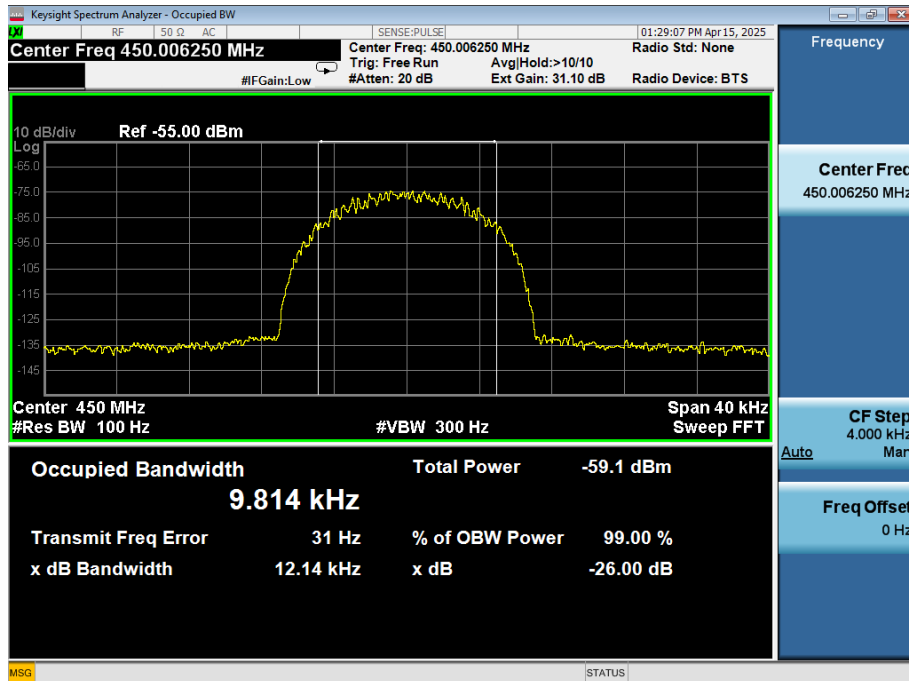


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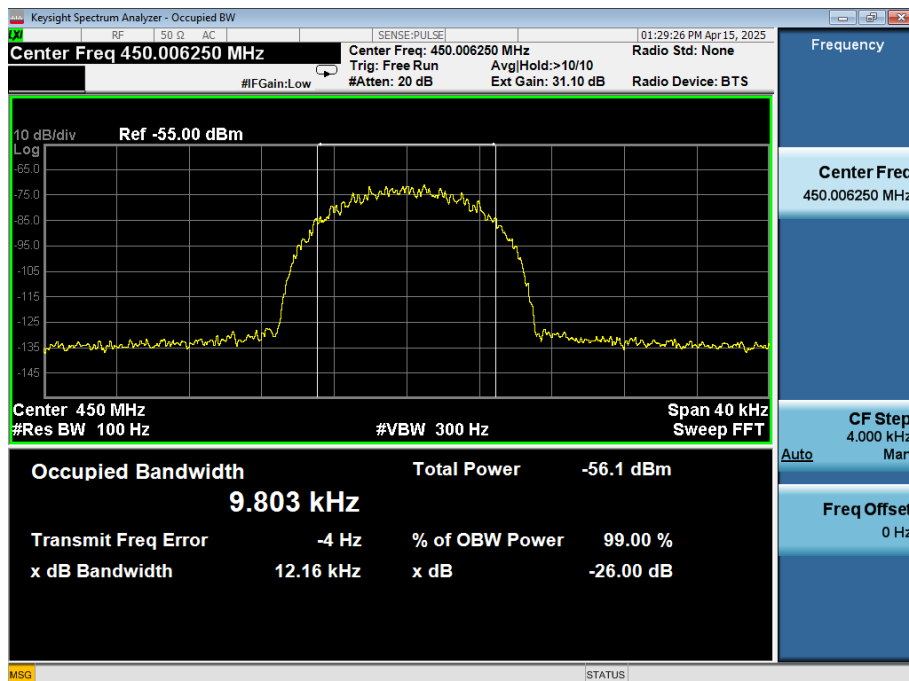
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99% OBW

DL_H-DQPSK_LCH_Input_Pre-AGC



DL_H-DQPSK_LCH_Input_3dB above AGC

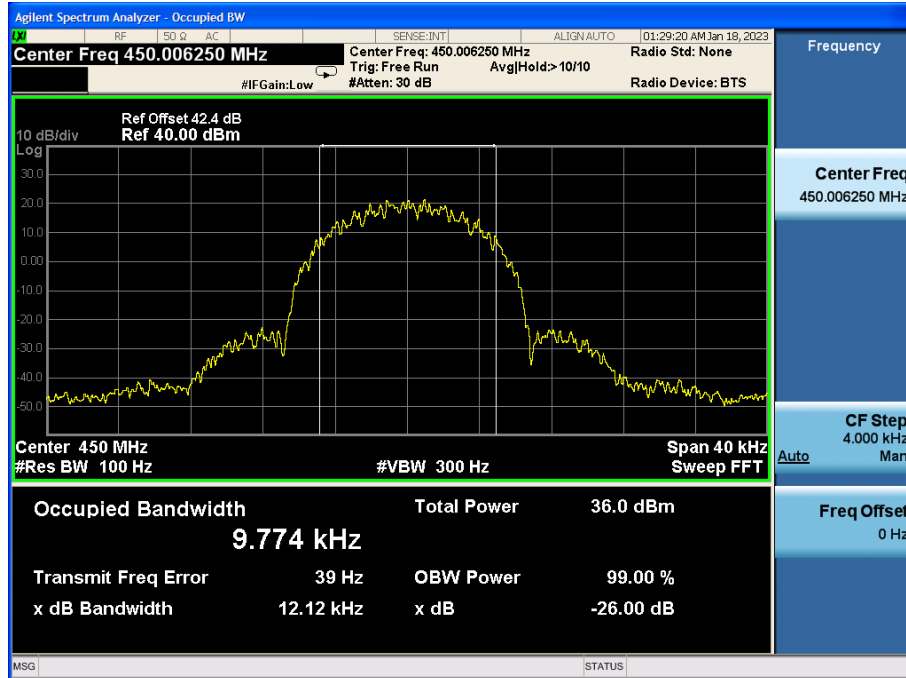


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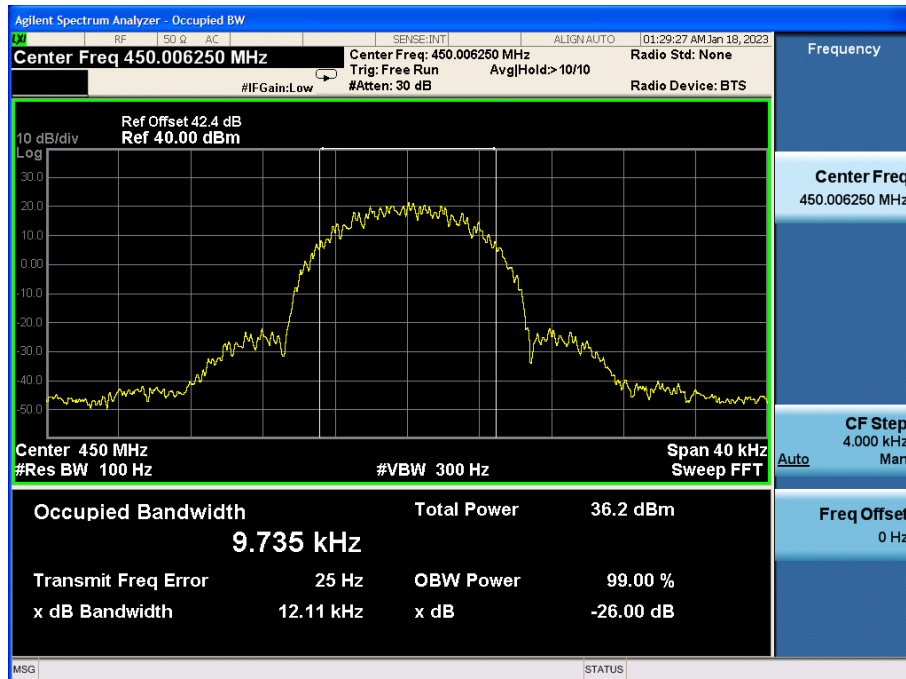
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99% OBW

DL_H-DQPSK_LCH_Output_Pre-AGC



DL_H-DQPSK_LCH_Output_3dB above AGC

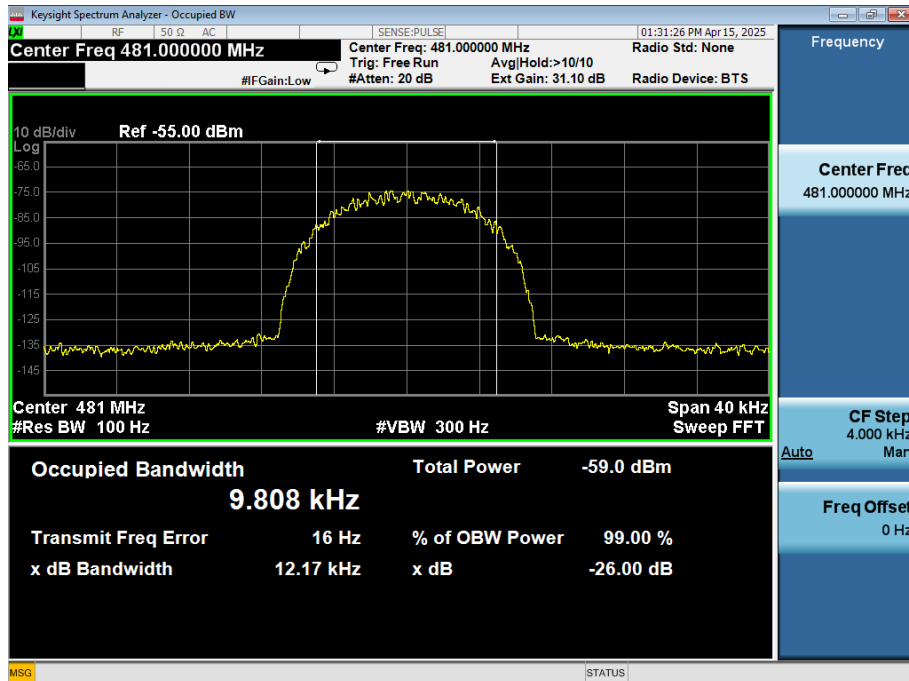


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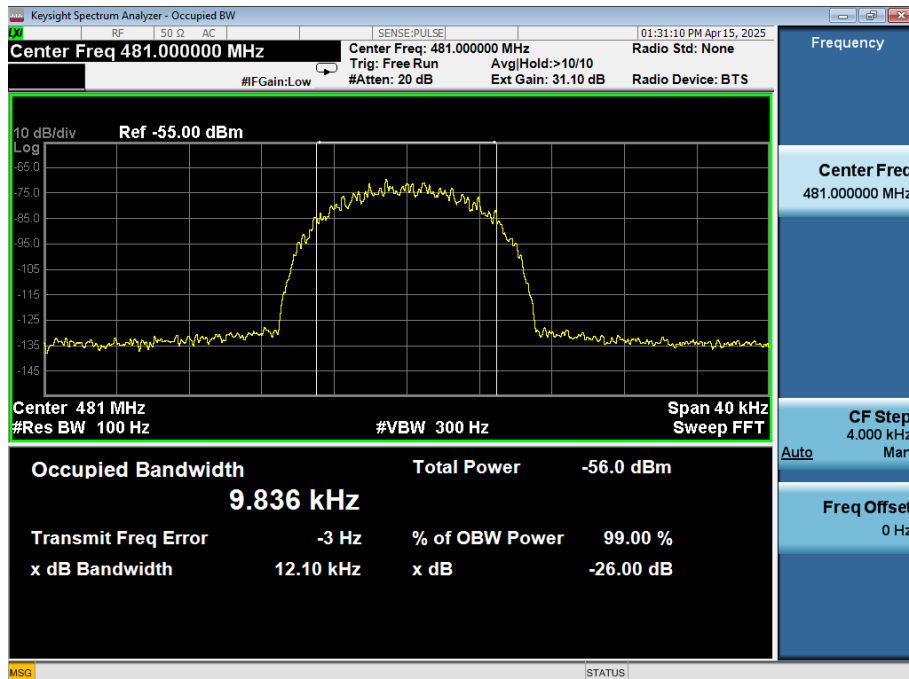
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99% OBW

DL_H-DQPSK_MCH_Input_Pre-AGC



DL_H-DQPSK_MCH_Input_3dB above AGC

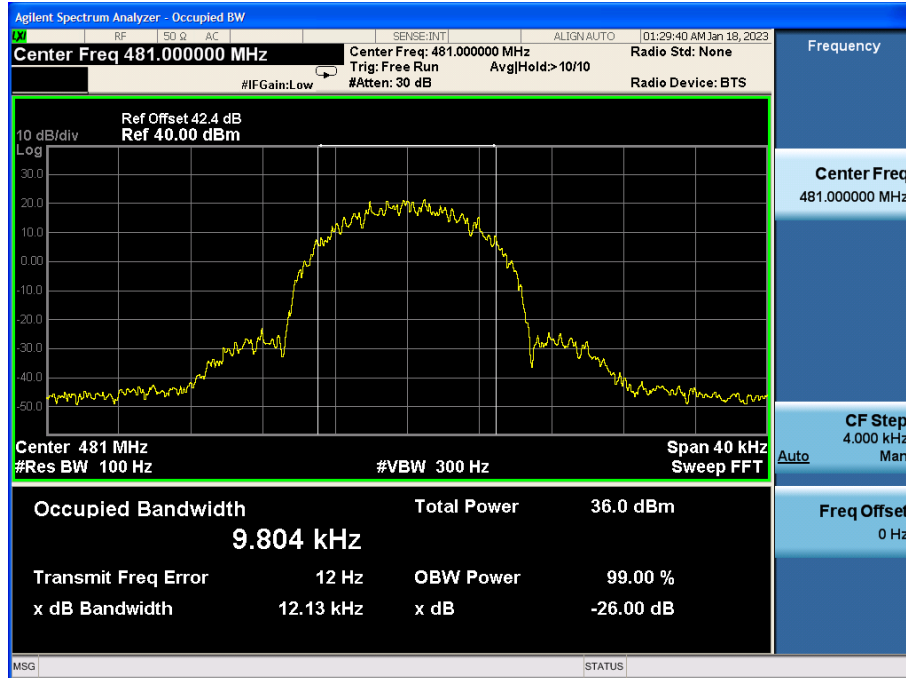


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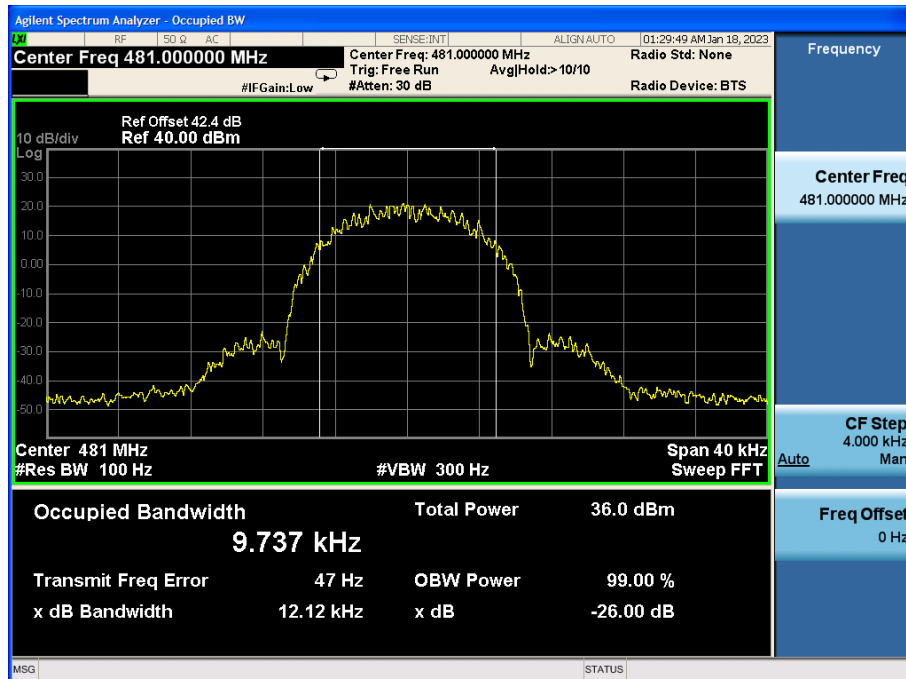
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99% OBW

DL_H-DQPSK_MCH_Output_Pre-AGC



DL_H-DQPSK_MCH_Output_3dB above AGC

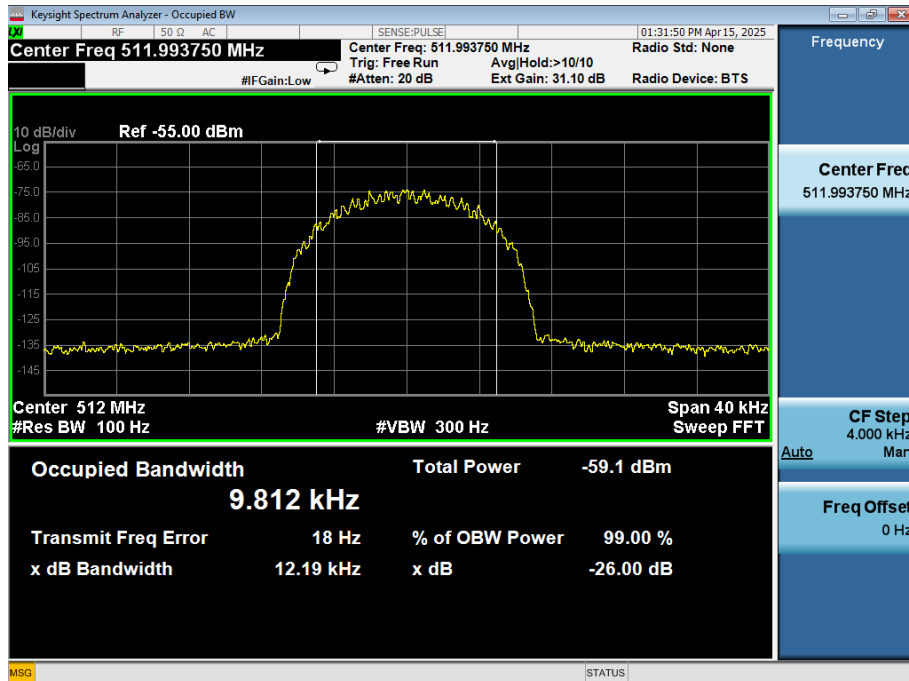


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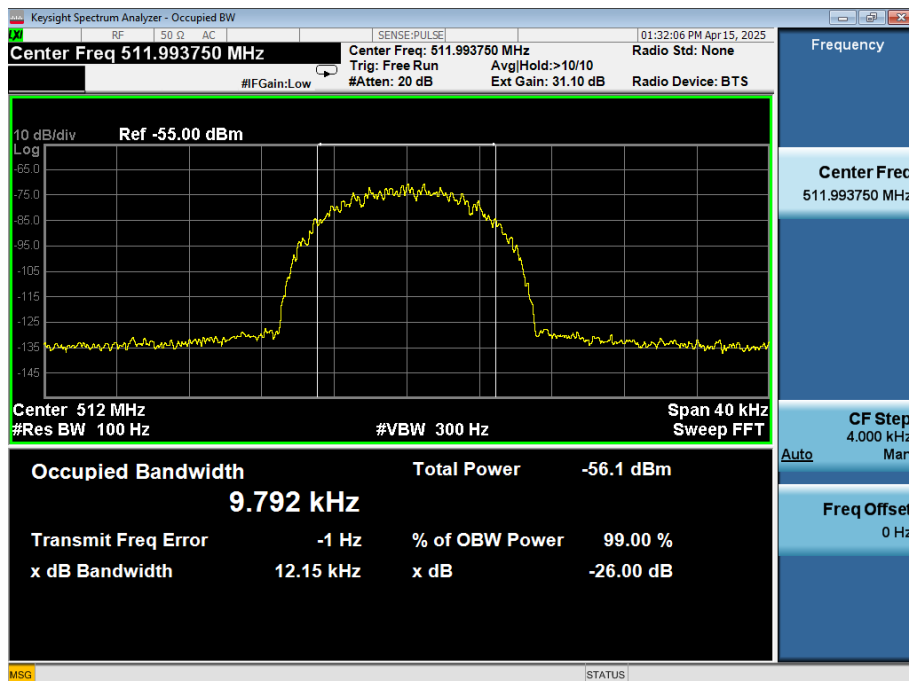
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99% OBW

DL_H-DQPSK_HCH_Input_Pre-AGC



DL_H-DQPSK_HCH_Input_3dB above AGC

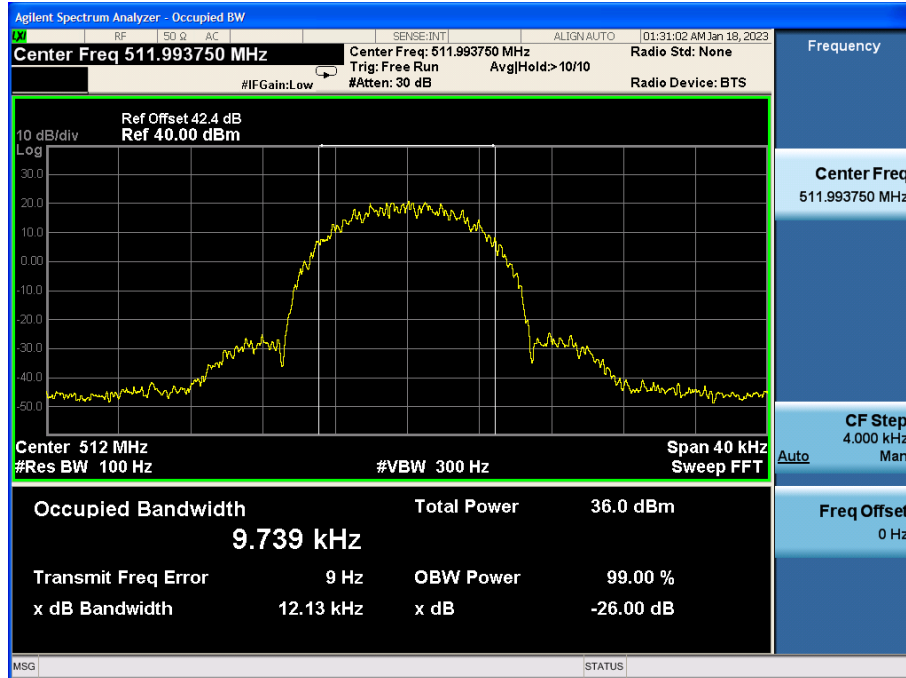


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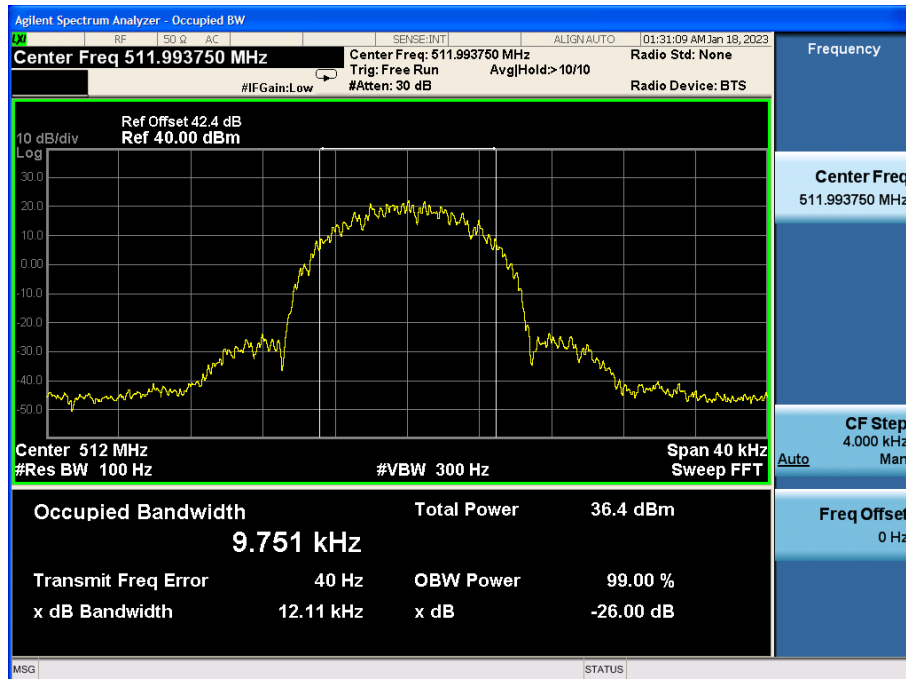
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99% OBW

DL_H-DQPSK_HCH_Output_Pre-AGC



DL_H-DQPSK_HCH_Output_3dB above AGC

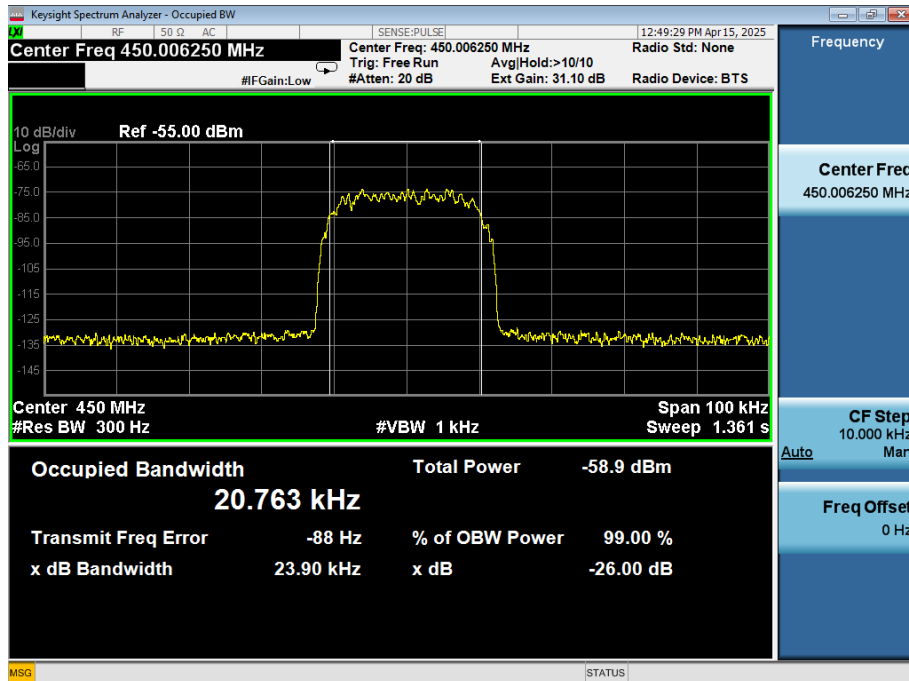


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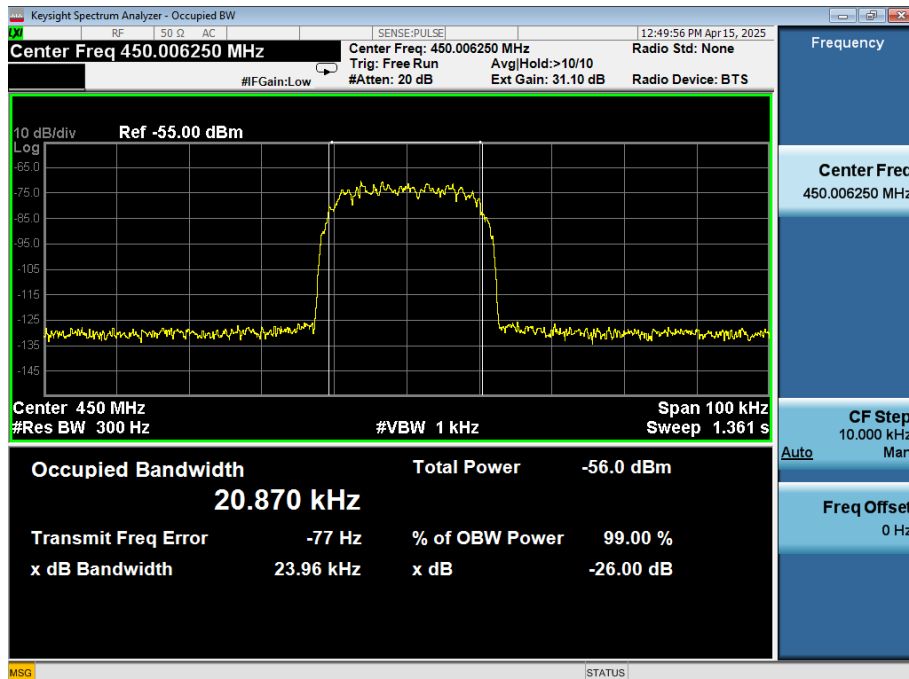
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99% OBW

DL_TETRA_LCH_Input_Pre-AGC



DL_TETRA_LCH_Input_3dB above AGC

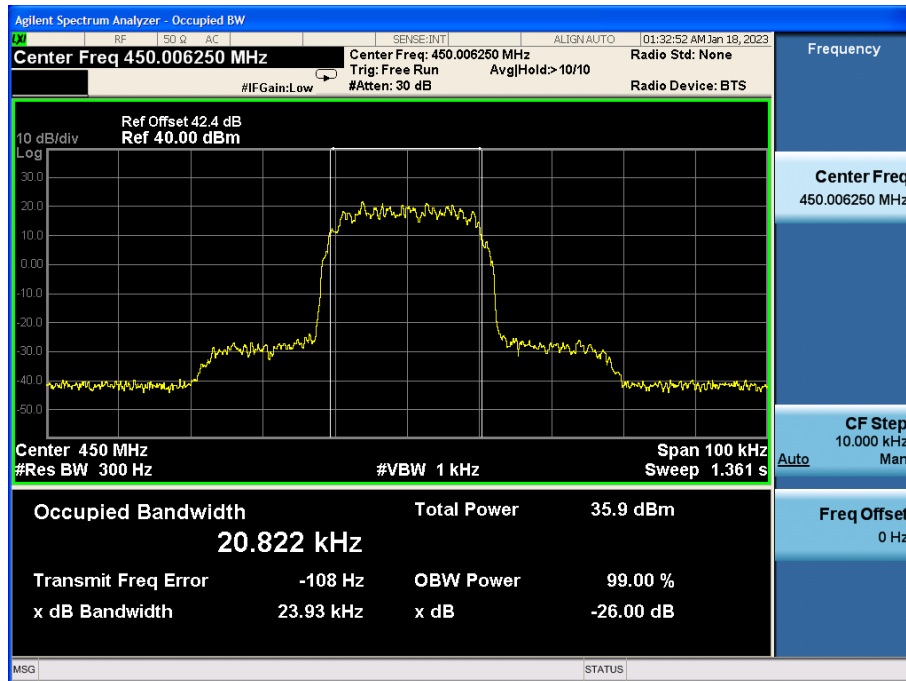


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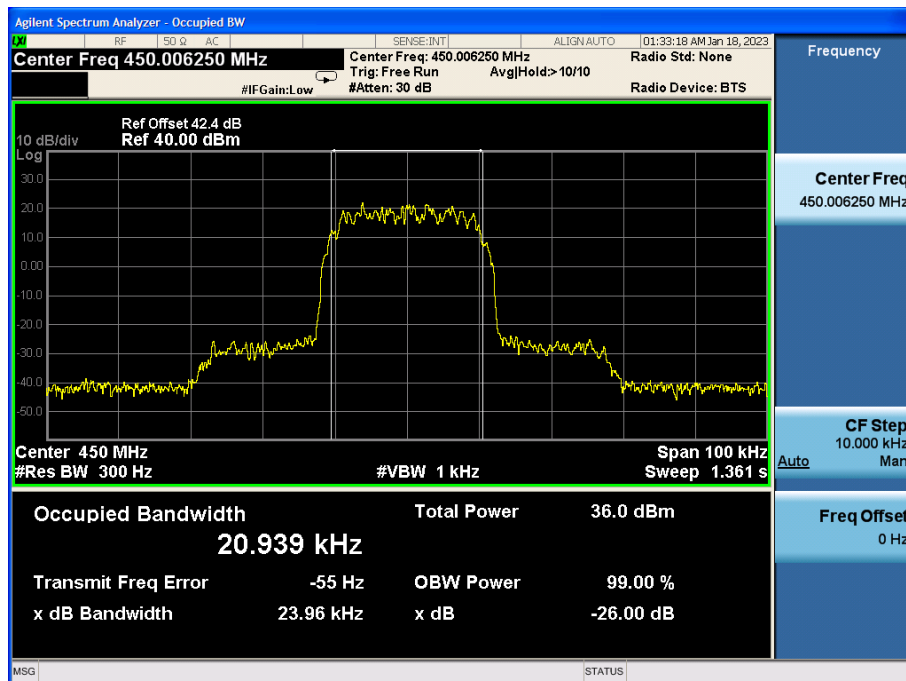
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99% OBW

DL_TETRA_LCH_Output_Pre-AGC



DL_TETRA_LCH_Output_3dB above AGC

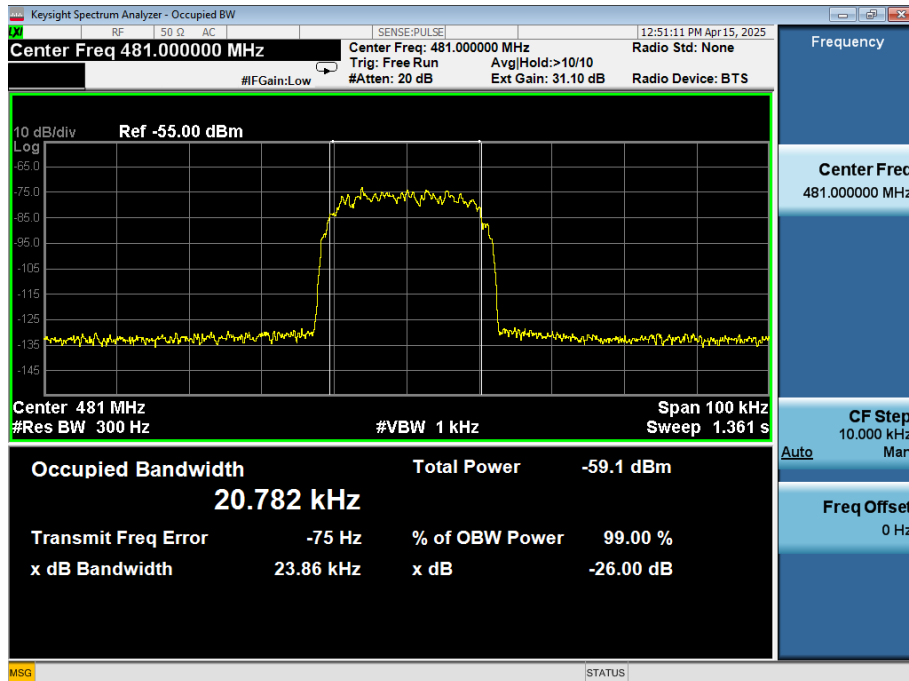


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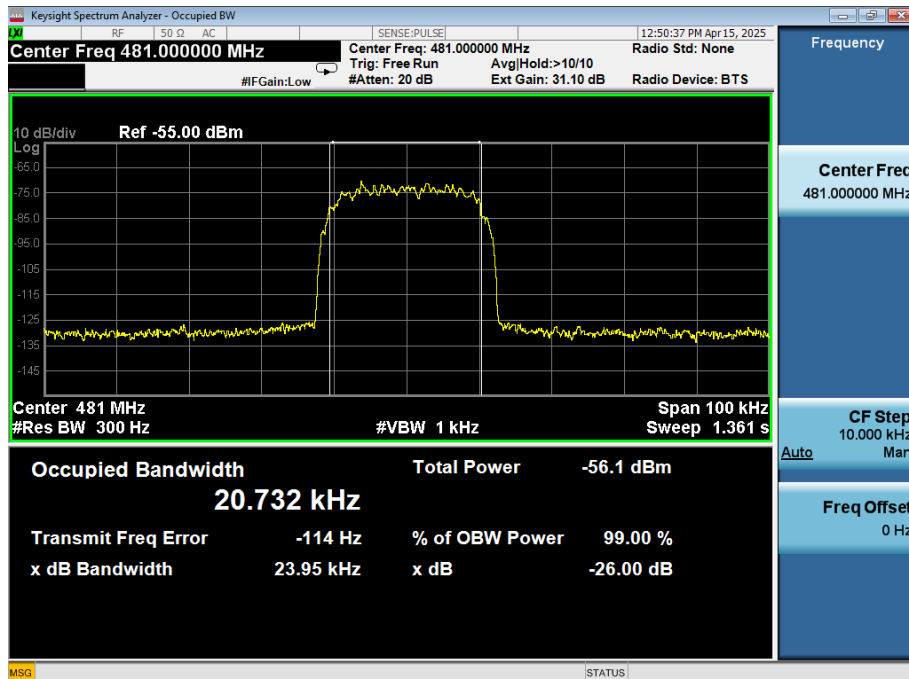
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99% OBW

DL_TETRA_MCH_Input_Pre-AGC



DL_TETRA_MCH_Input_3dB above AGC

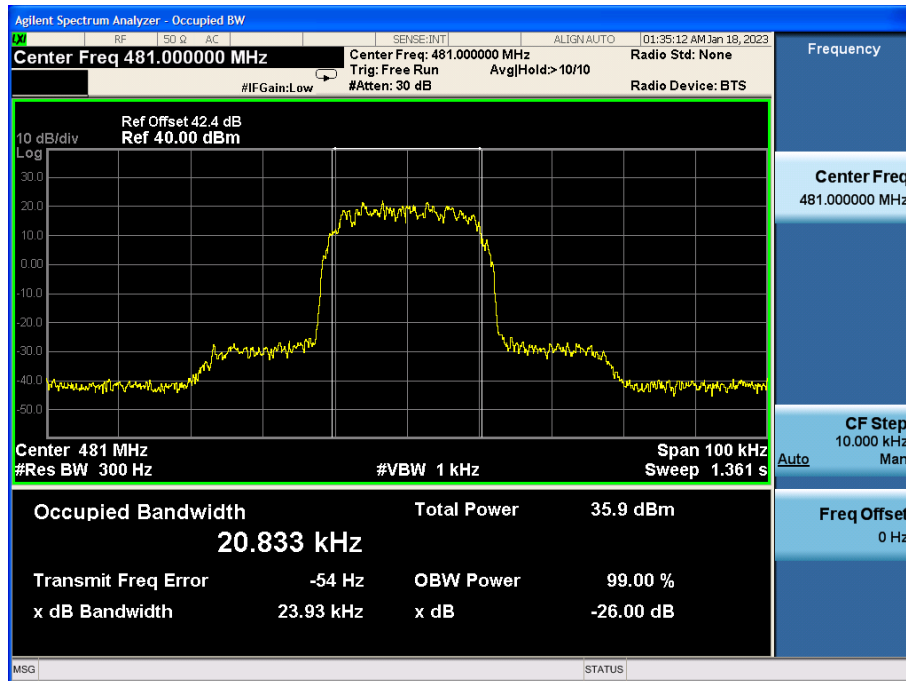


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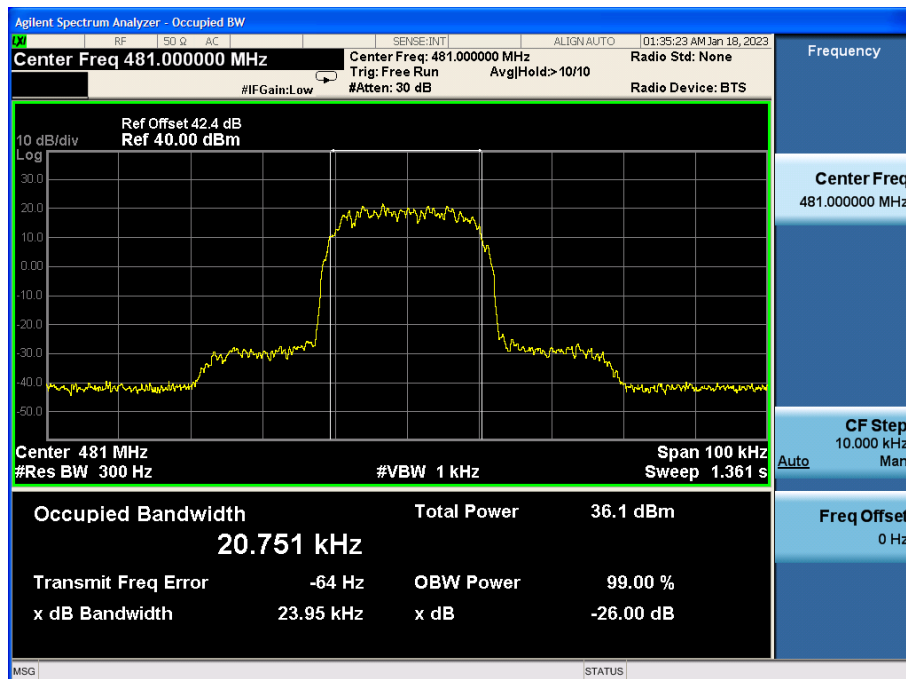
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99% OBW

DL_TETRA_MCH_Output_Pre-AGC



DL_TETRA_MCH_Output_3dB above AGC

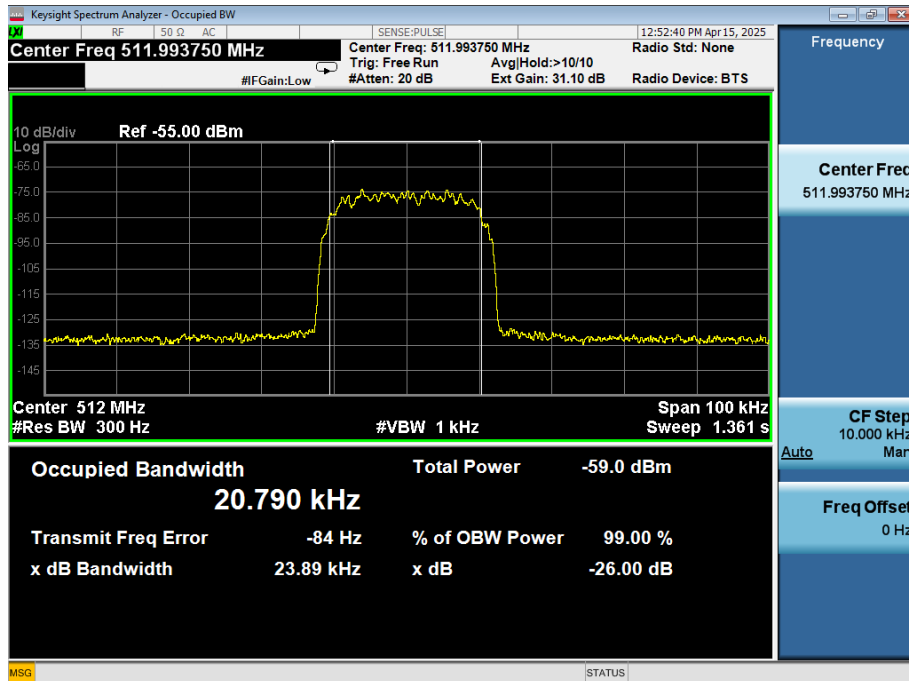


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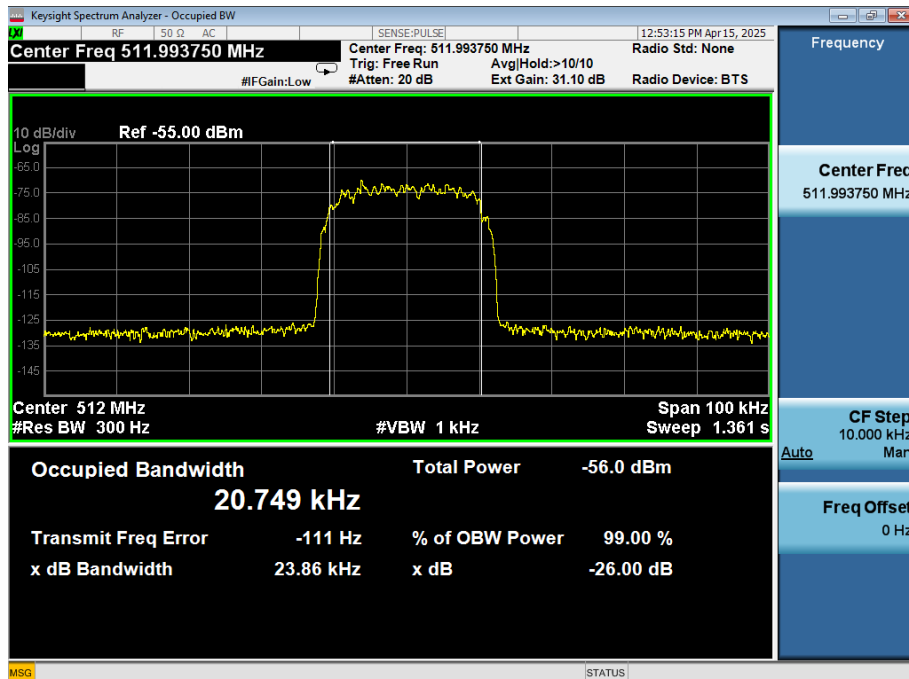
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99% OBW

DL_TETRA_HCH_Input_Pre-AGC



DL_TETRA_HCH_Input_3dB above AGC

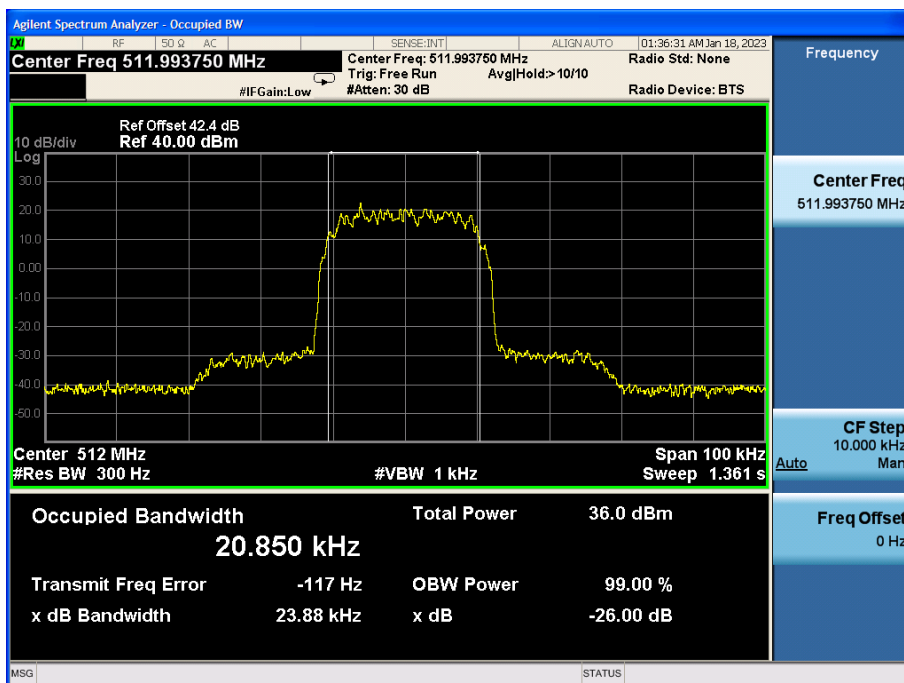


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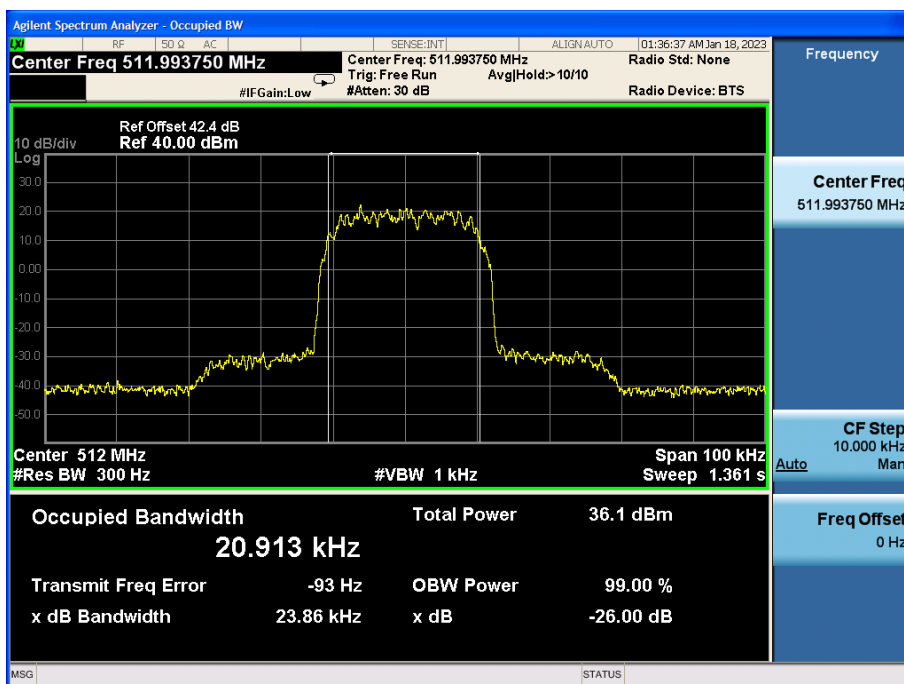
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99% OBW

DL_TETRA_HCH_Output_Pre-AGC



DL_TETRA_HCH_Output_3dB above AGC



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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	455.3	Pre-AGC	-59	36.75	2.89	5	95.75	PASS
		3dB above AGC	-56	36.92	3.00		/	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The manufacturer's rated Output power is 36dBm for DL, and the Output power showed in above table is within ± 1.0 dB tolerance.
- 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

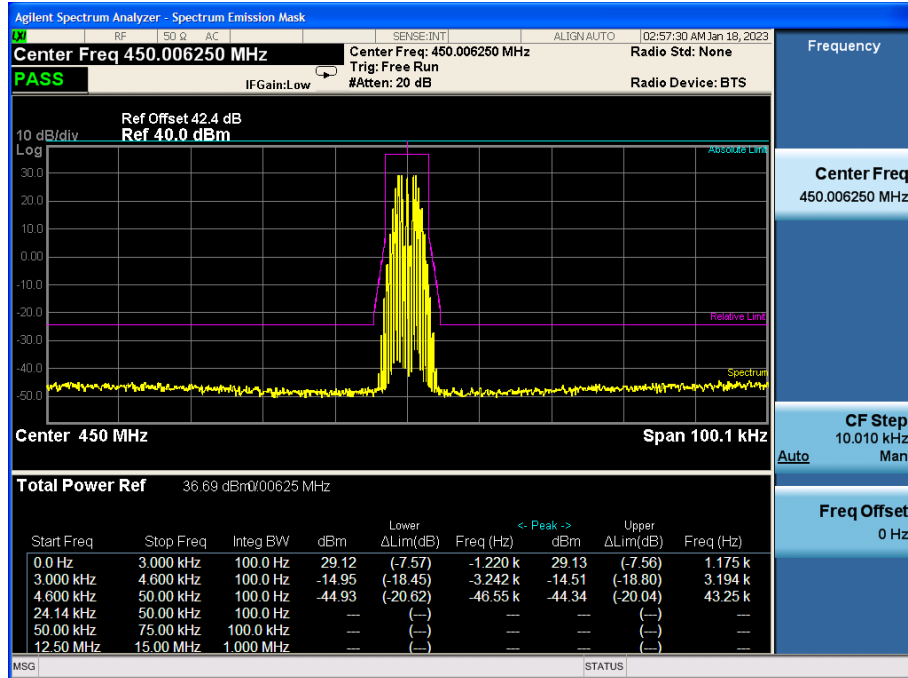


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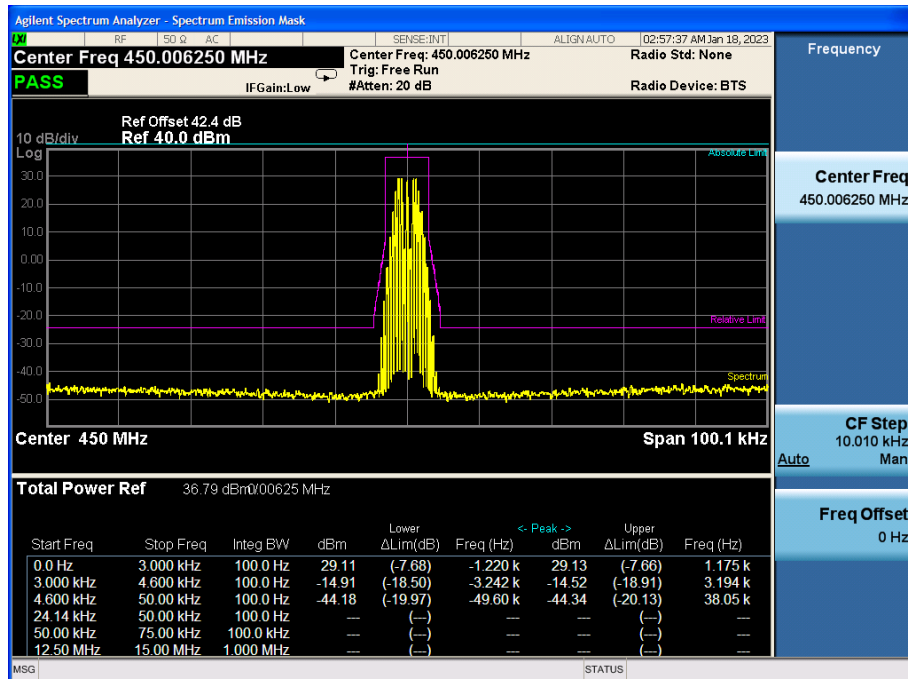
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Emission Masks

DL_FM_LCH_Pre-AGC

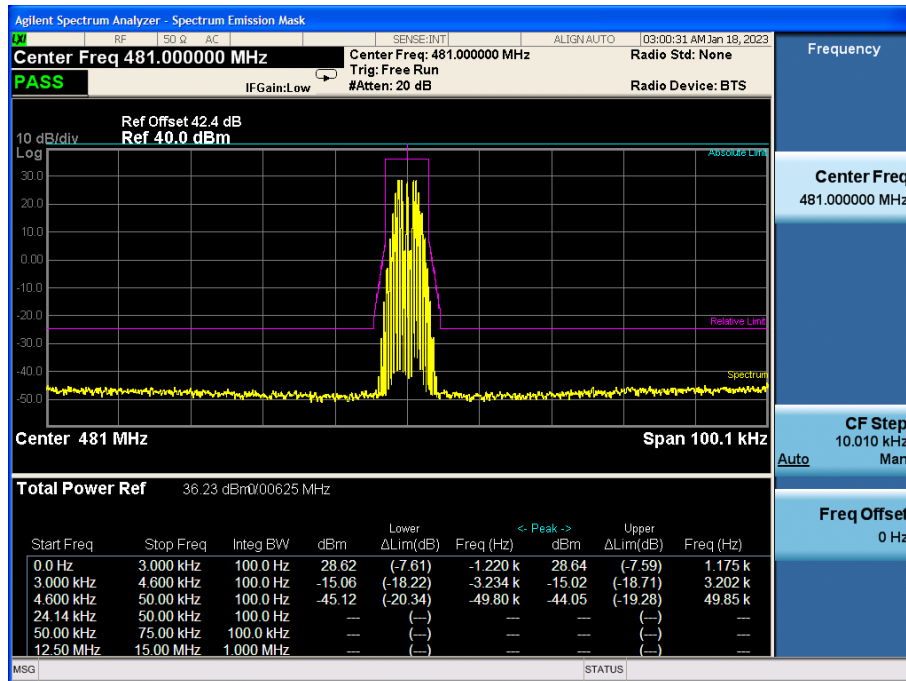


DL_FM_LCH_3dB above AGC

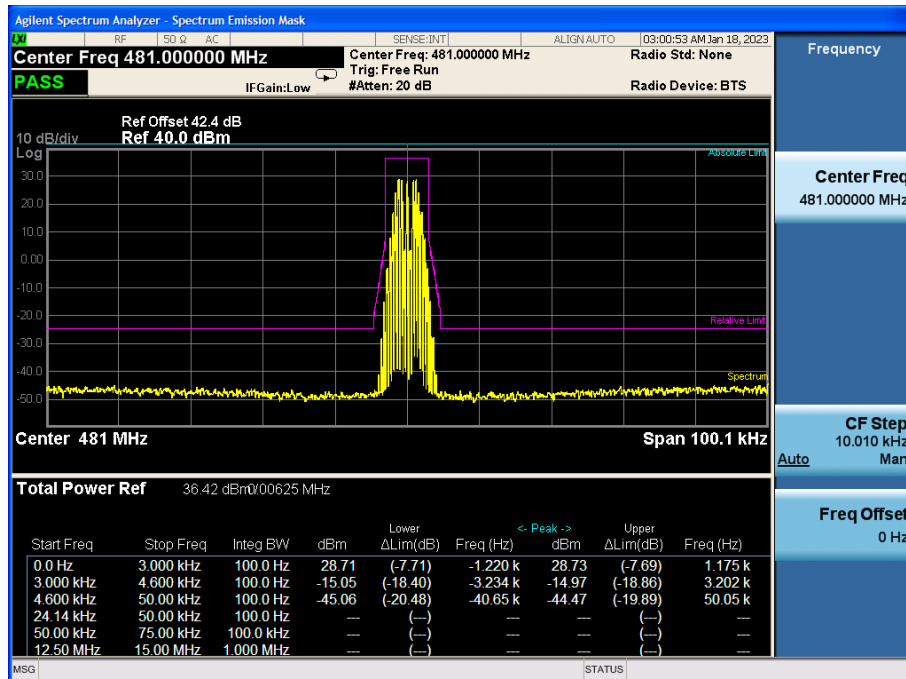


Emission Masks

DL_FM_MCH_Pre-AGC



DL_FM_MCH_3dB above AGC

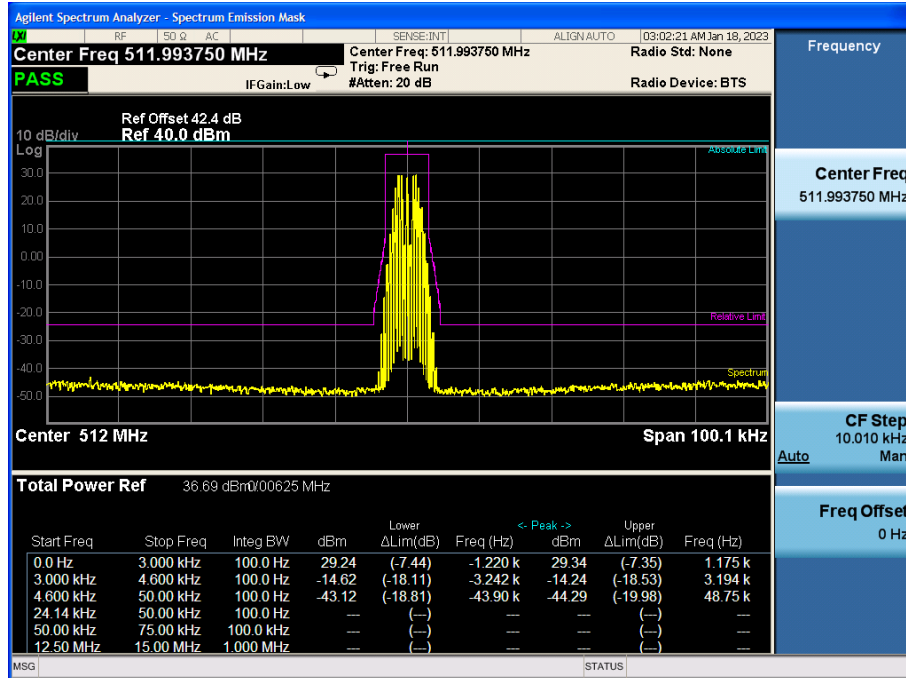


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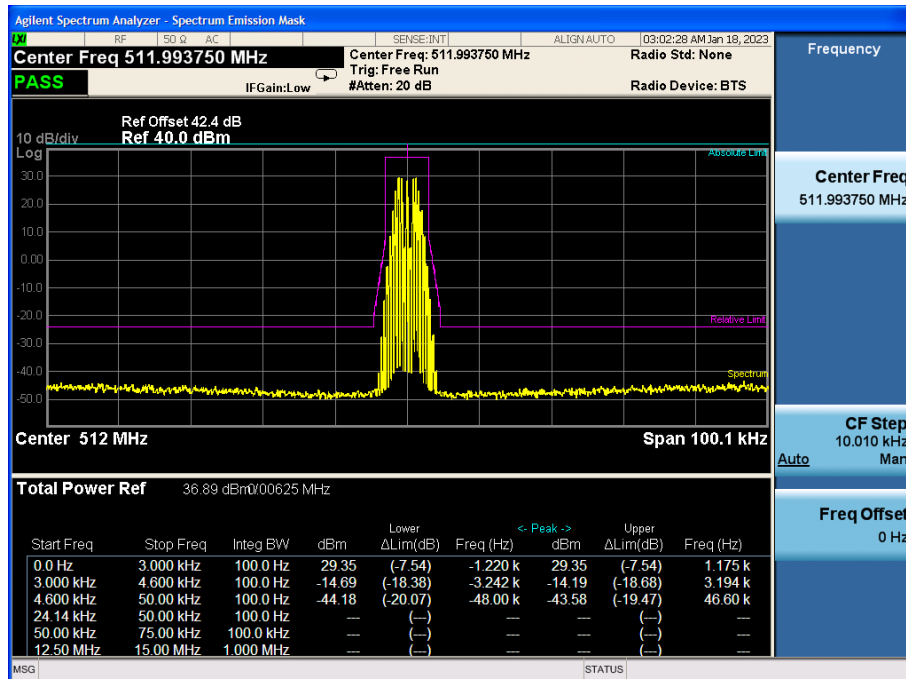
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Emission Masks

DL_FM_HCH_Pre-AGC



DL_FM_HCH_3dB above AGC



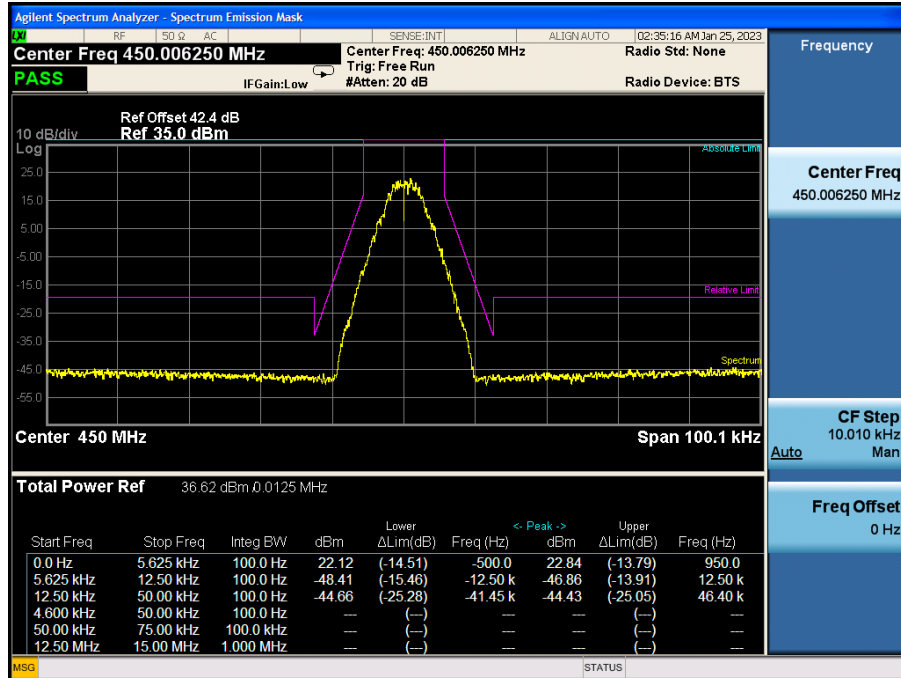
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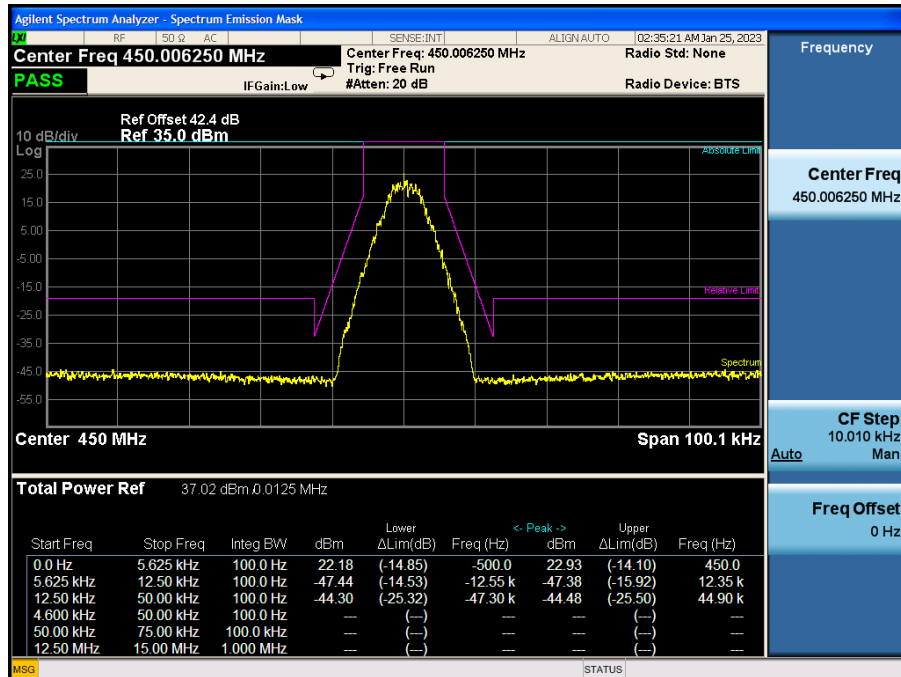
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Emission Masks

DL_DMR_LCH_Pre-AGC



DL_DMR_LCH_3dB above AGC



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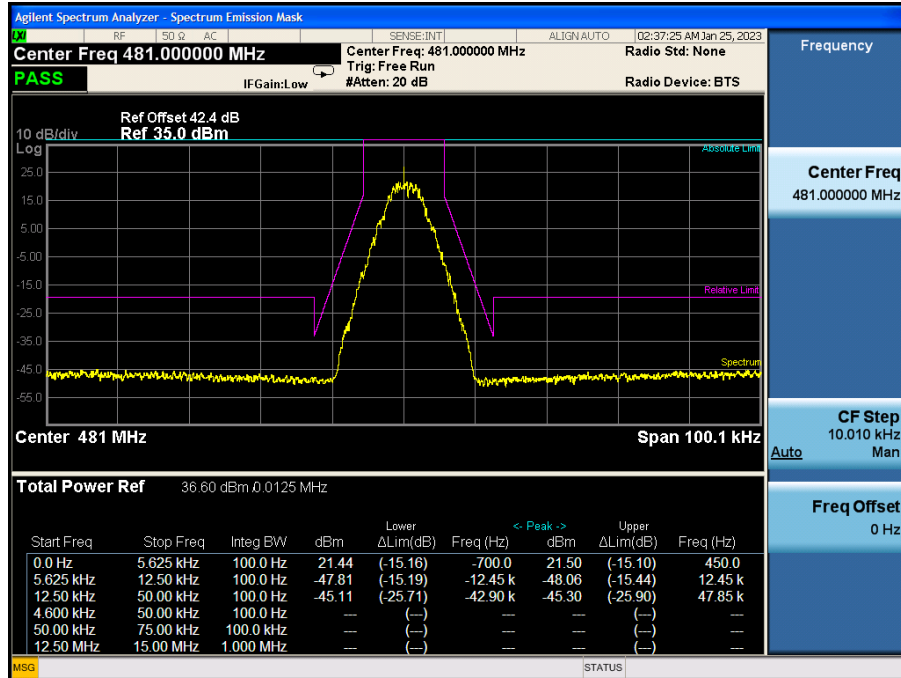
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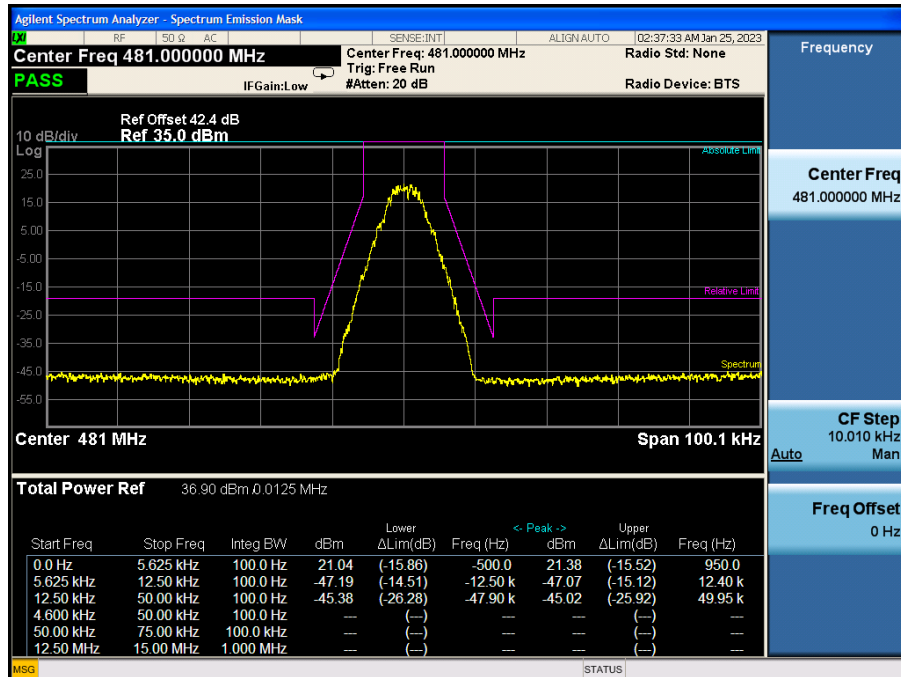
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Emission Masks

DL_DMR_MCH_Pre-AGC

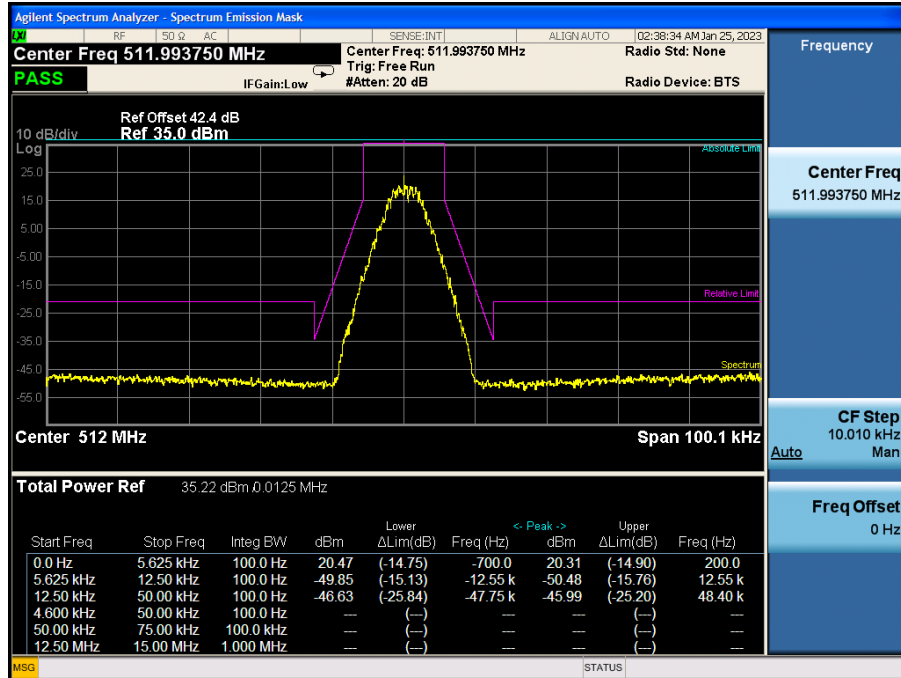


DL_DMR_MCH_3dB above AGC

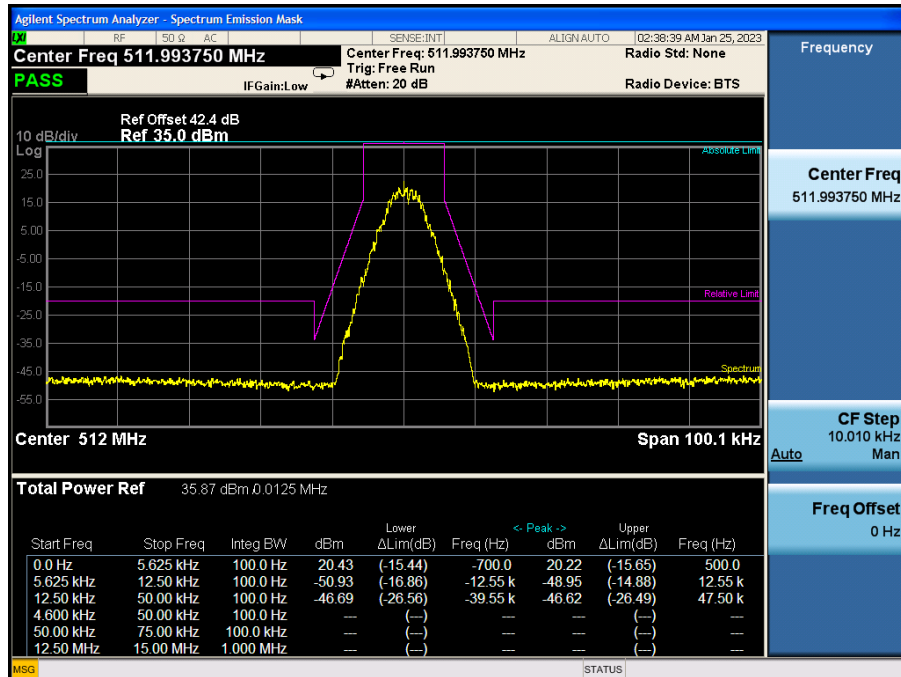


Emission Masks

DL_DMR_HCH_Pre-AGC

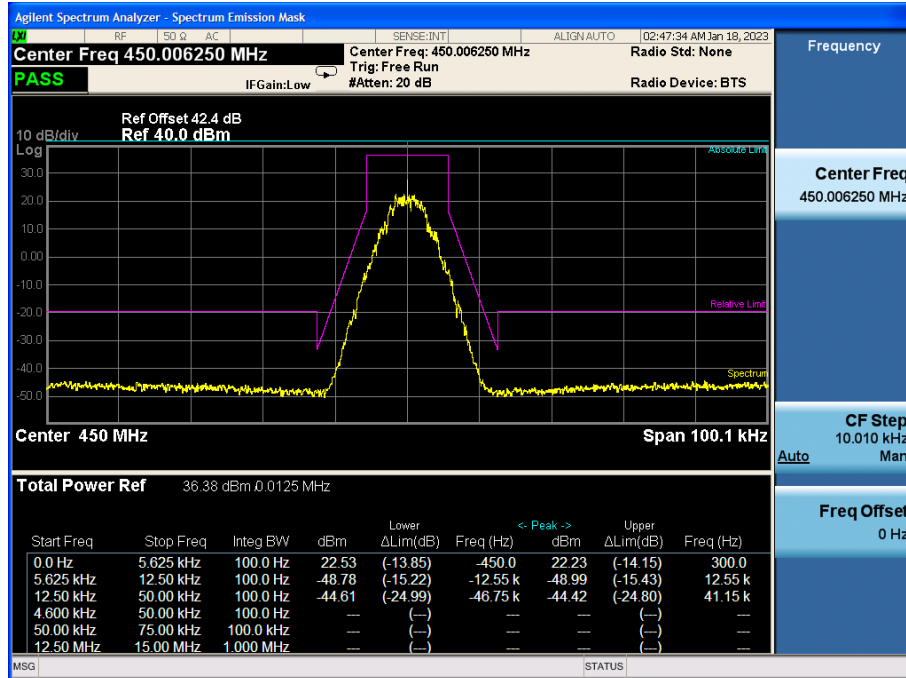


DL_DMR_HCH_3dB above AGC

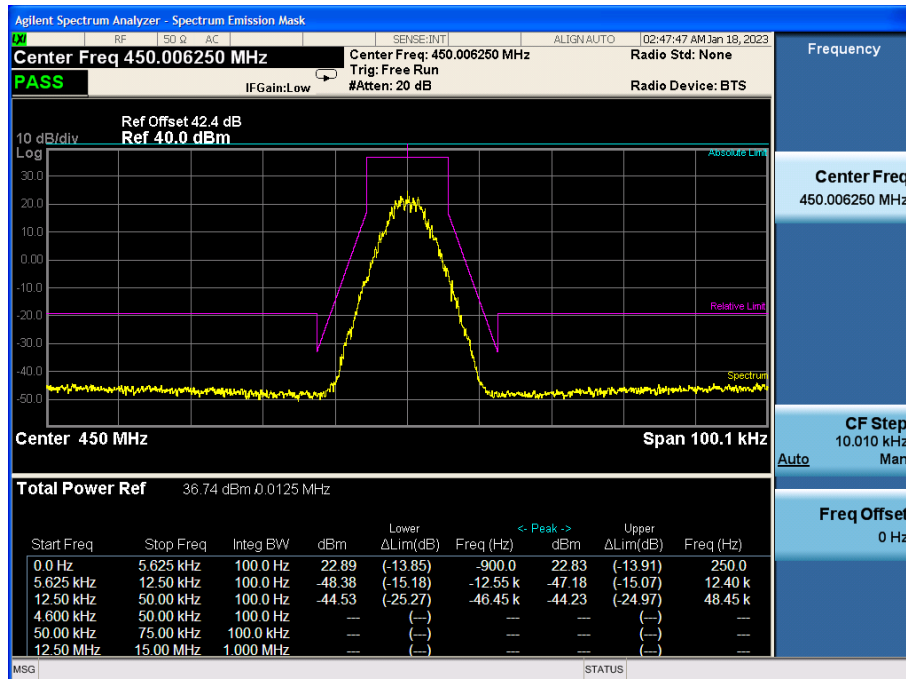


Emission Masks

DL_C4FM_LCH_Pre-AGC



DL_C4FM_LCH_3dB above AGC



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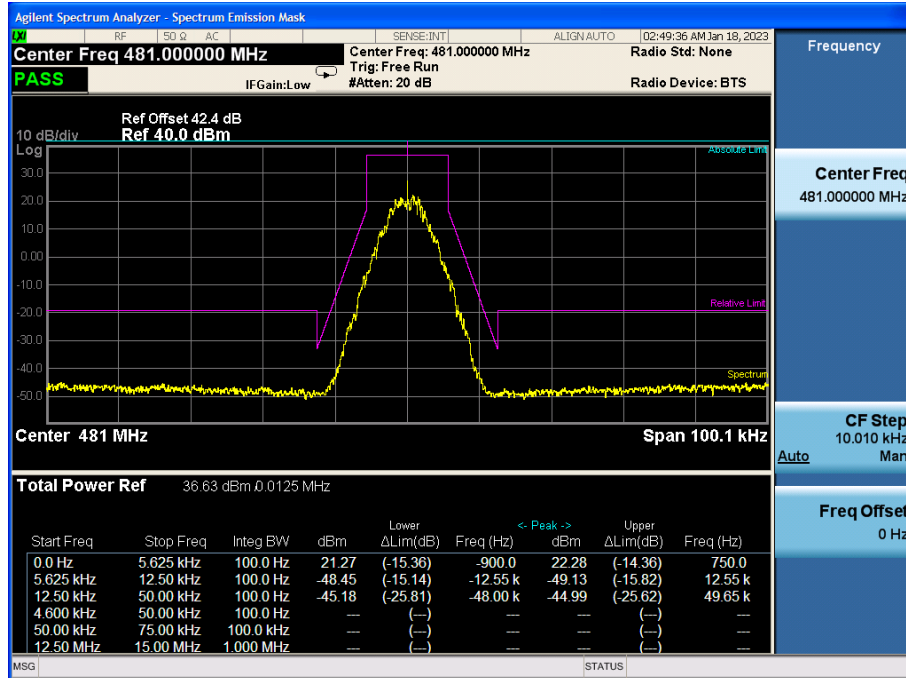
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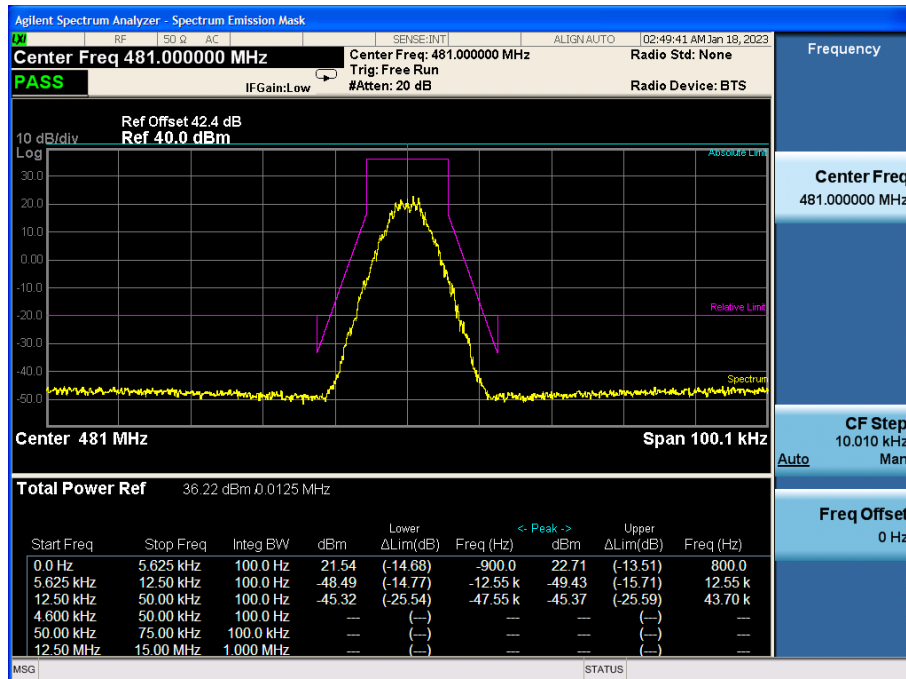
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Emission Masks

DL_C4FM_MCH_Pre-AGC



DL_C4FM_MCH_3dB above AGC



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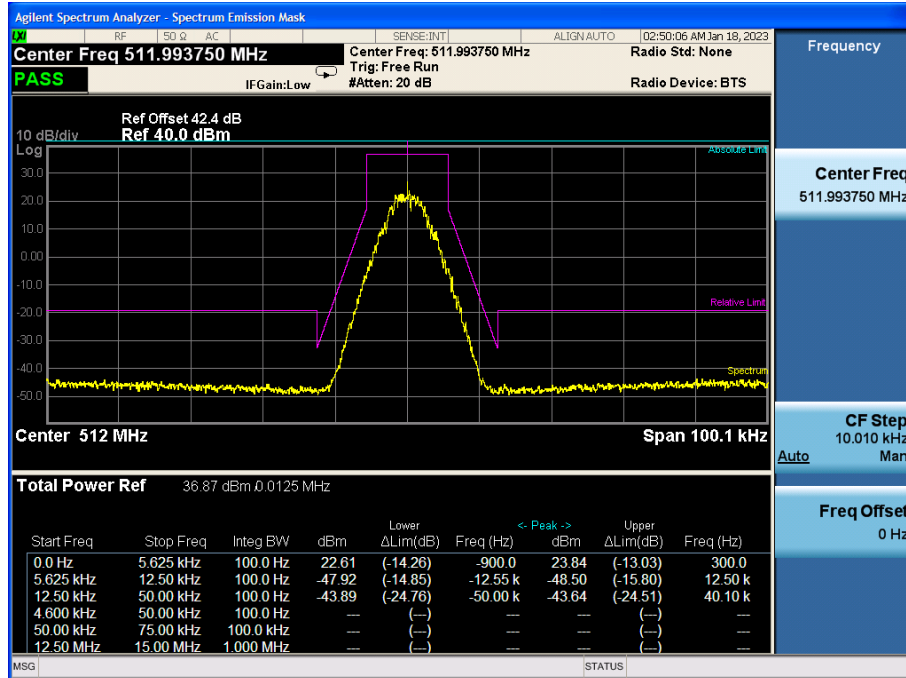
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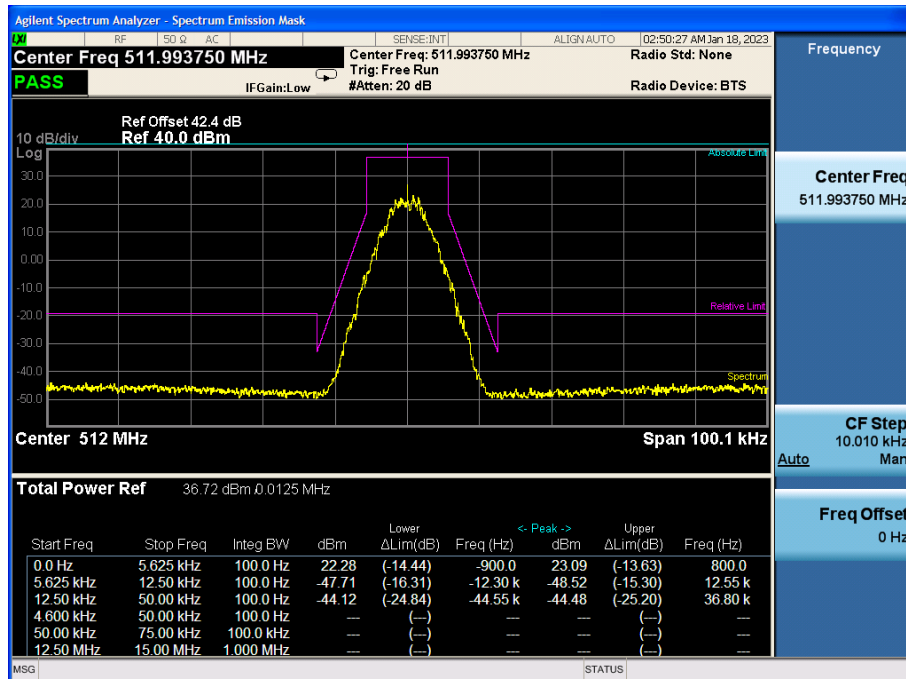
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Emission Masks

DL_C4FM_HCH_Pre-AGC



DL_C4FM_HCH_3dB above AGC



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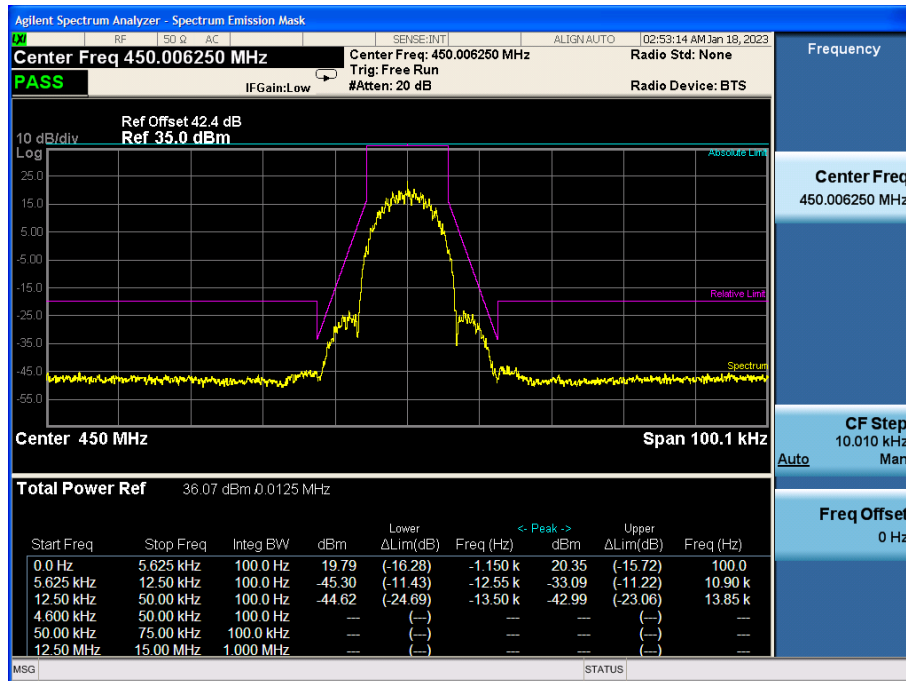
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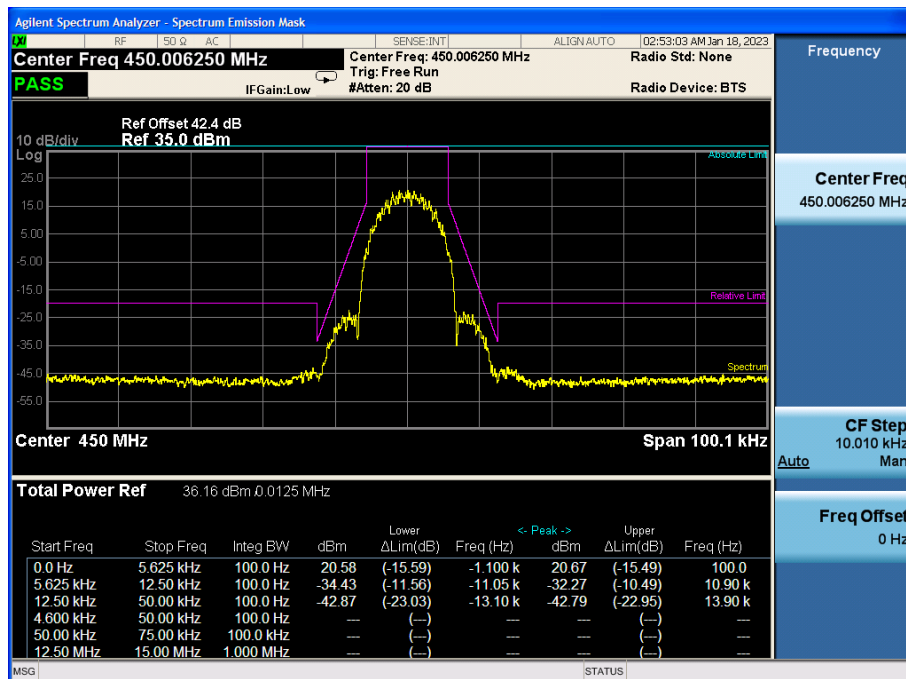
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Emission Masks

DL_H-DQPSK_LCH_Pre-AGC



DL_H-DQPSK_LCH_3dB above AGC



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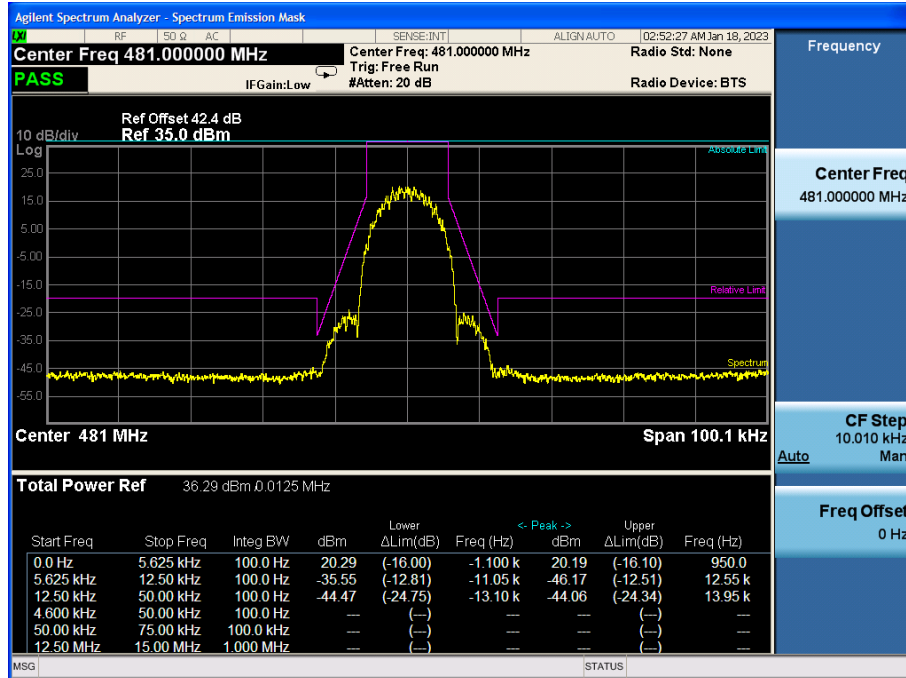
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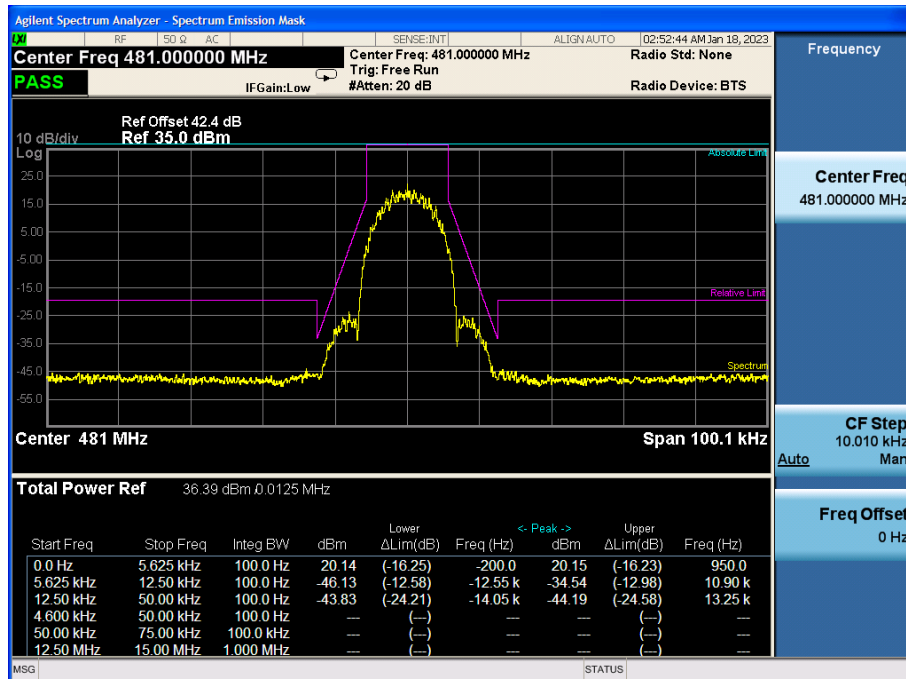
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Emission Masks

DL_H-DQPSK_MCH_Pre-AGC



DL_H-DQPSK_MCH_3dB above AGC



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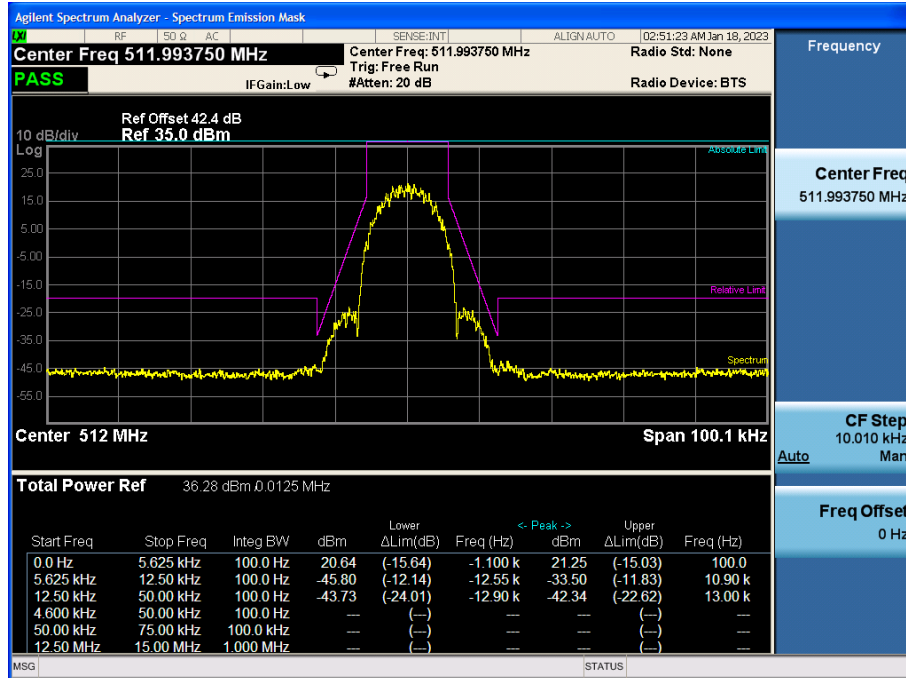
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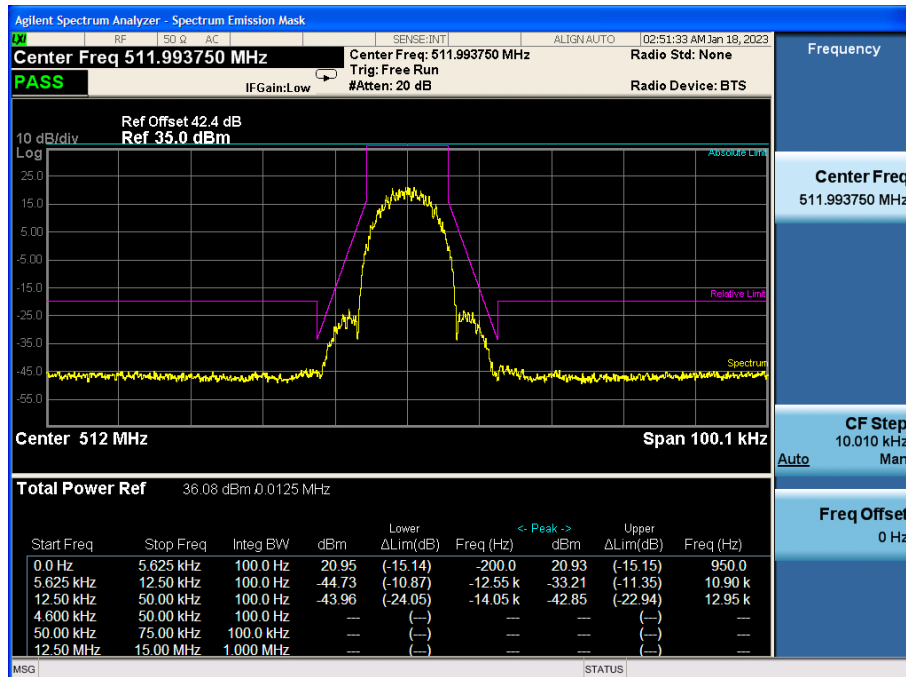
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Emission Masks

DL_H-DQPSK_HCH_Pre-AGC



DL_H-DQPSK_HCH_3dB above AGC



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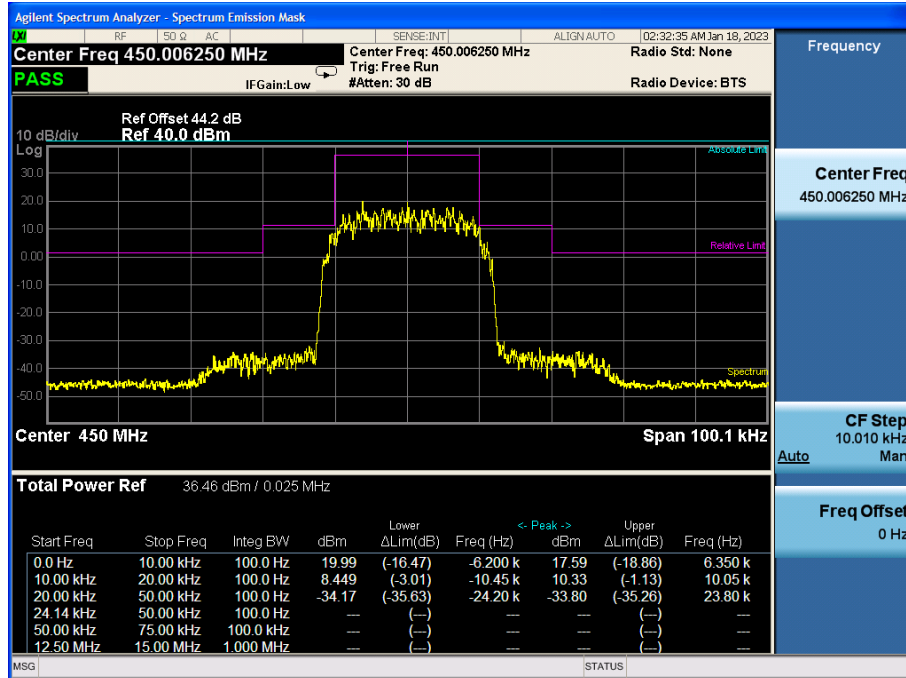
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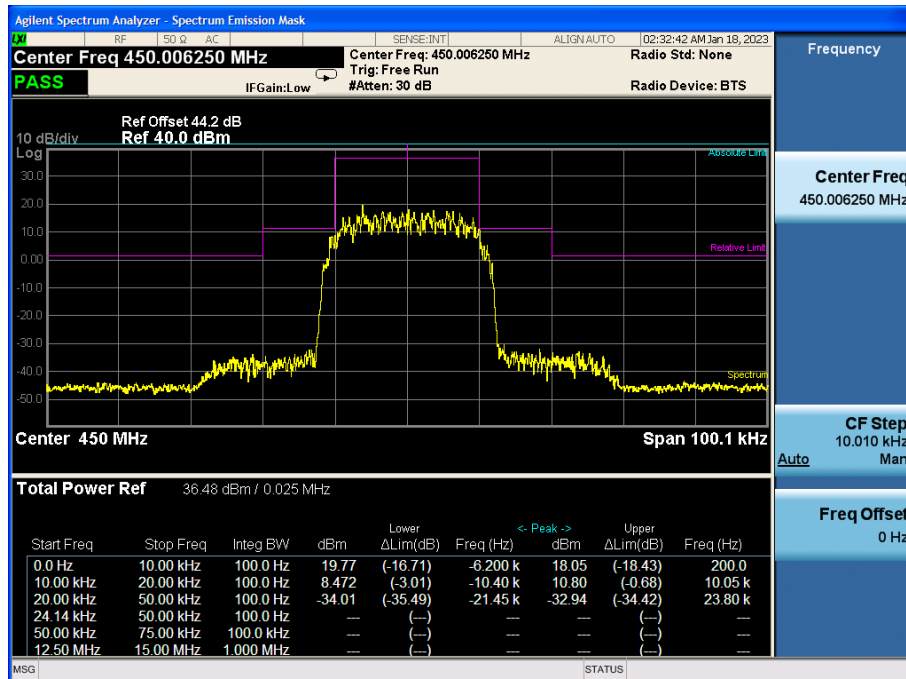
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Emission Masks

DL_TETRA_LCH_Pre-AGC



DL_TETRA_LCH_3dB above AGC



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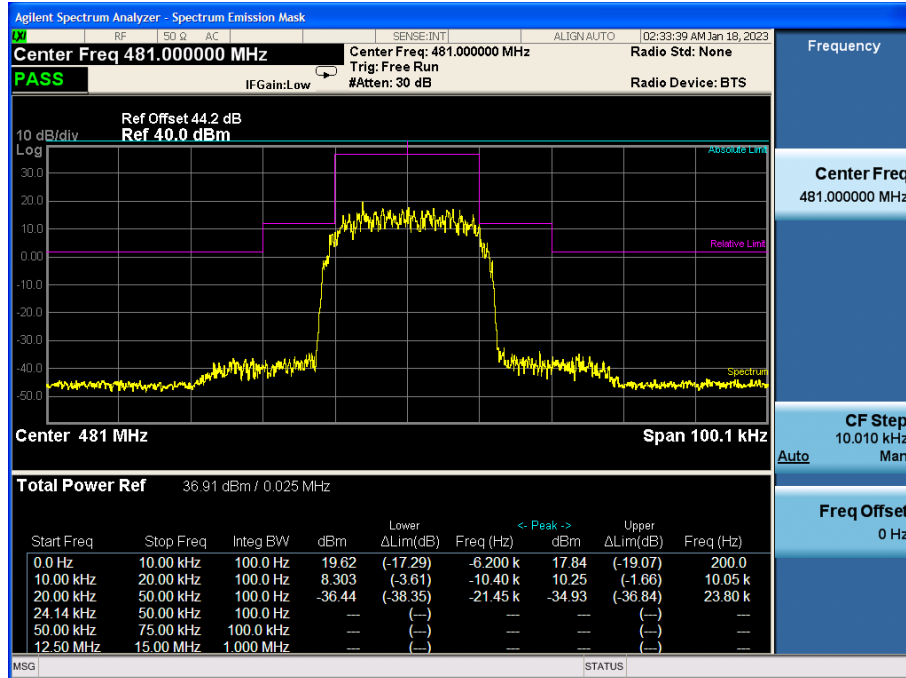
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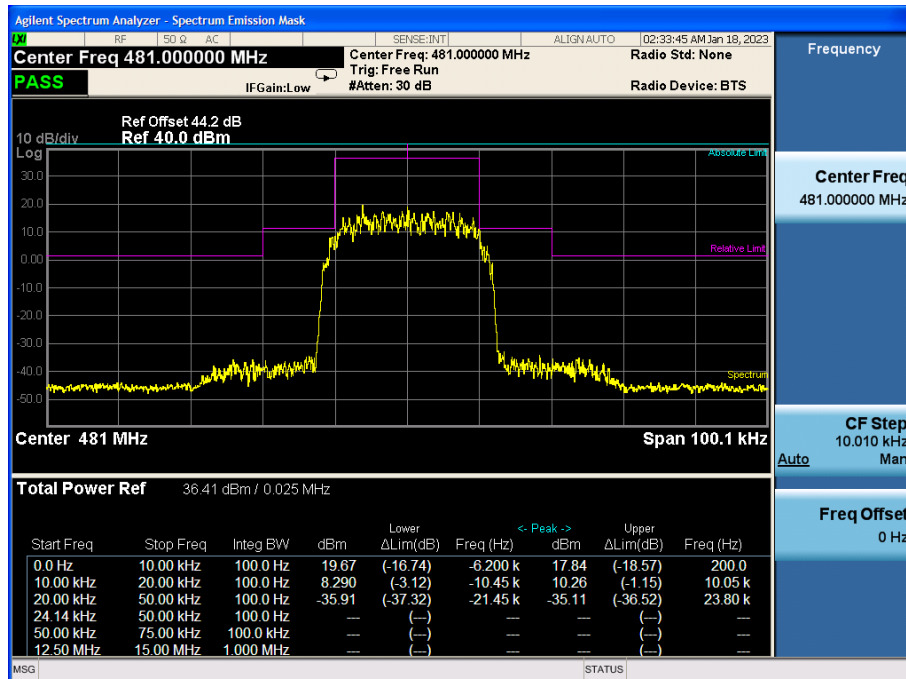
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Emission Masks

DL_TETRA_MCH_Pre-AGC



DL_TETRA_MCH_3dB above AGC



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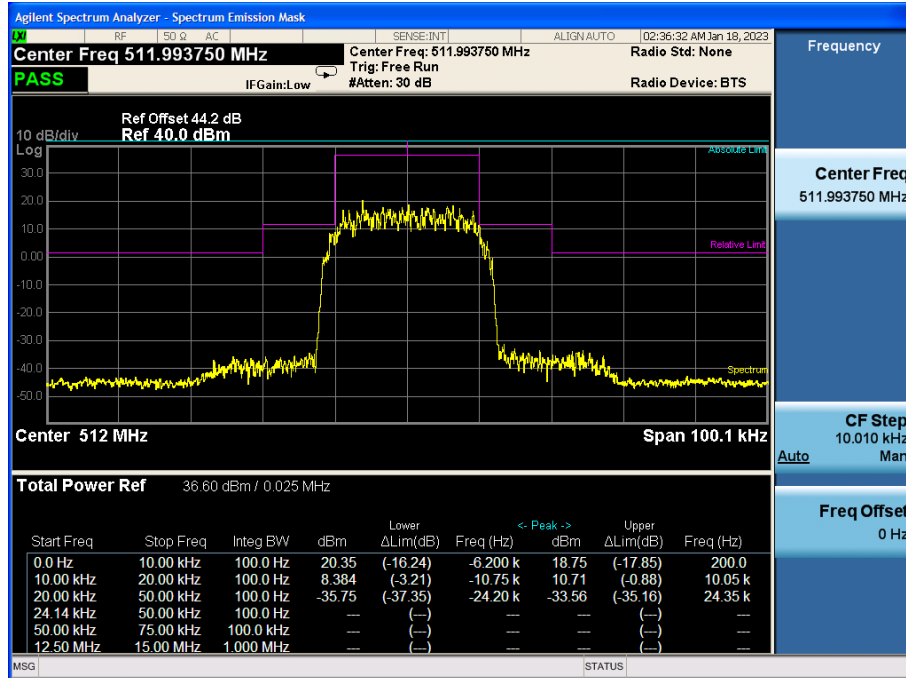
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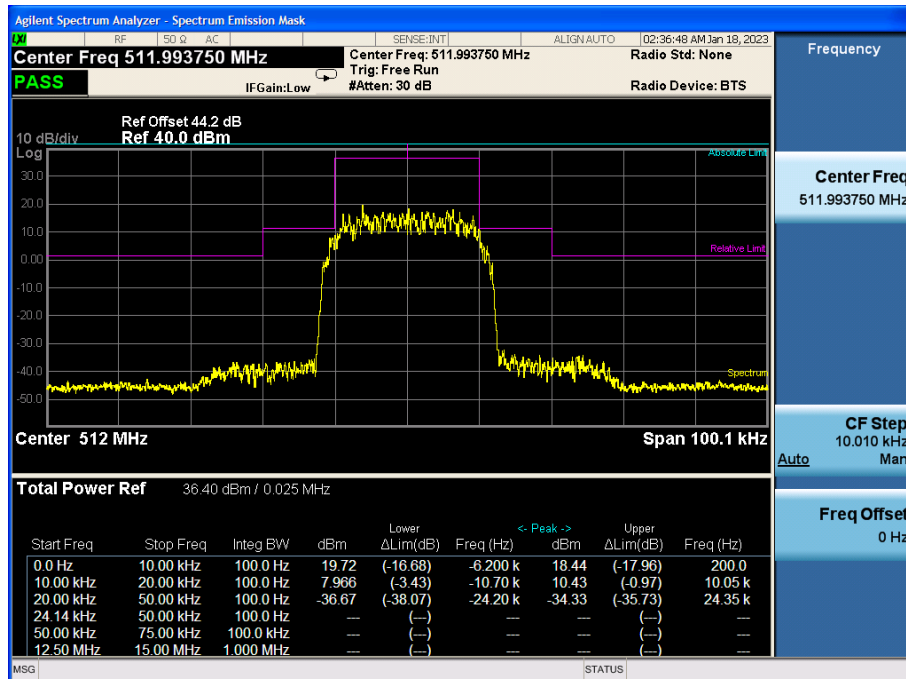
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Emission Masks

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	5.03	≤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	455.3	6.25	Pre-AGC	-19.88	-4.65
			3dB above AGC	-19.43	-4.20
		12.5	Pre-AGC	-19.83	-4.60
			3dB above AGC	-19.45	-4.22
		25	Pre-AGC	-20.17	-4.94
			3dB above AGC	-20.35	-5.12

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+ 10lg(10000/300).
- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
- The ERP of worst intermodulation products is -4.20/10kHz+ 0dBi- 2.15dB= -6.35dBm, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

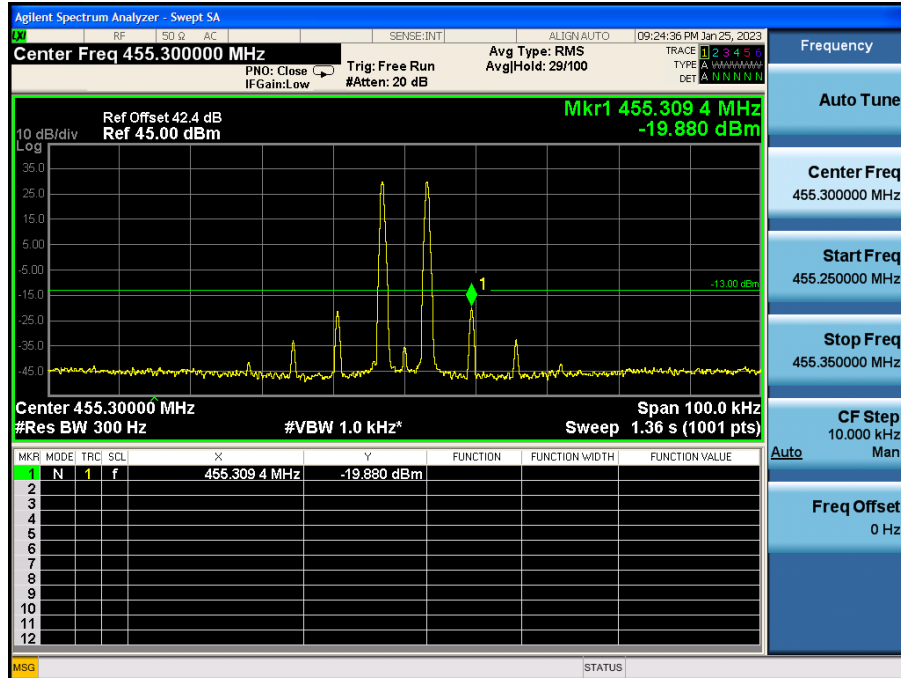


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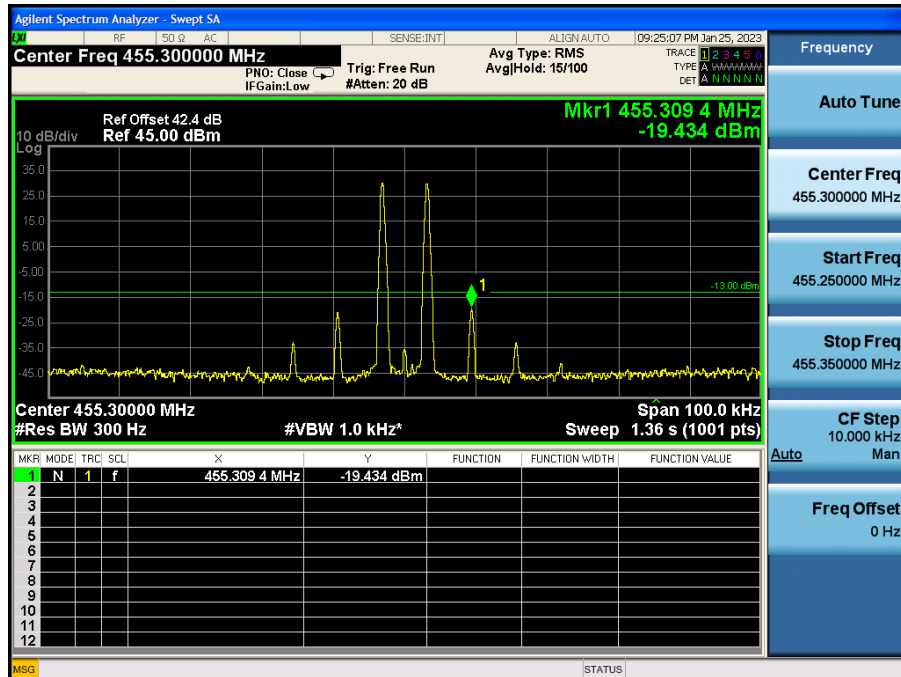
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Intermodulation

DL_6.25kHz_Pre-AGC

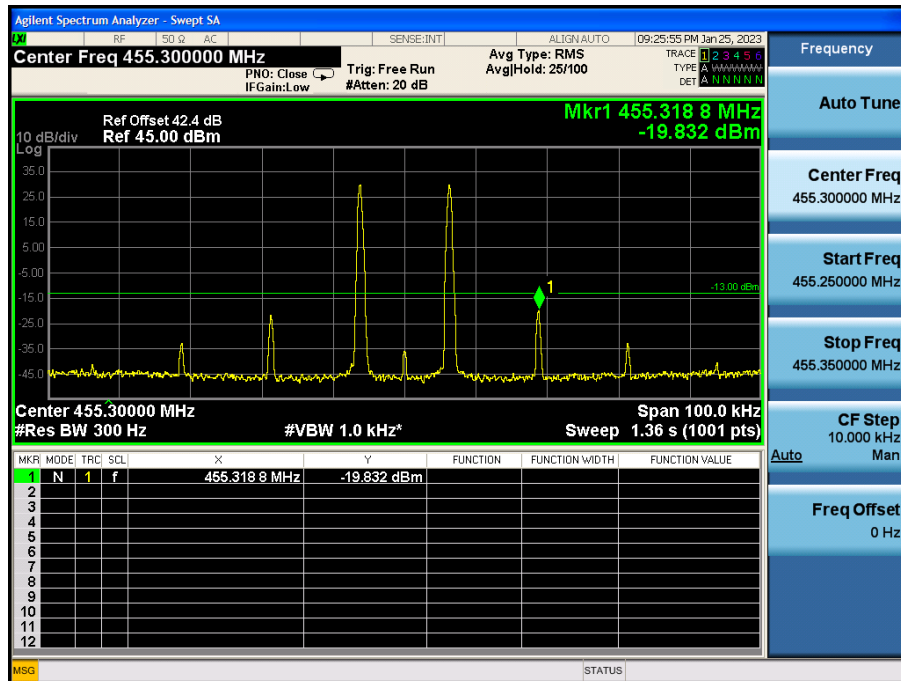


DL_6.25kHz_3dB above AGC

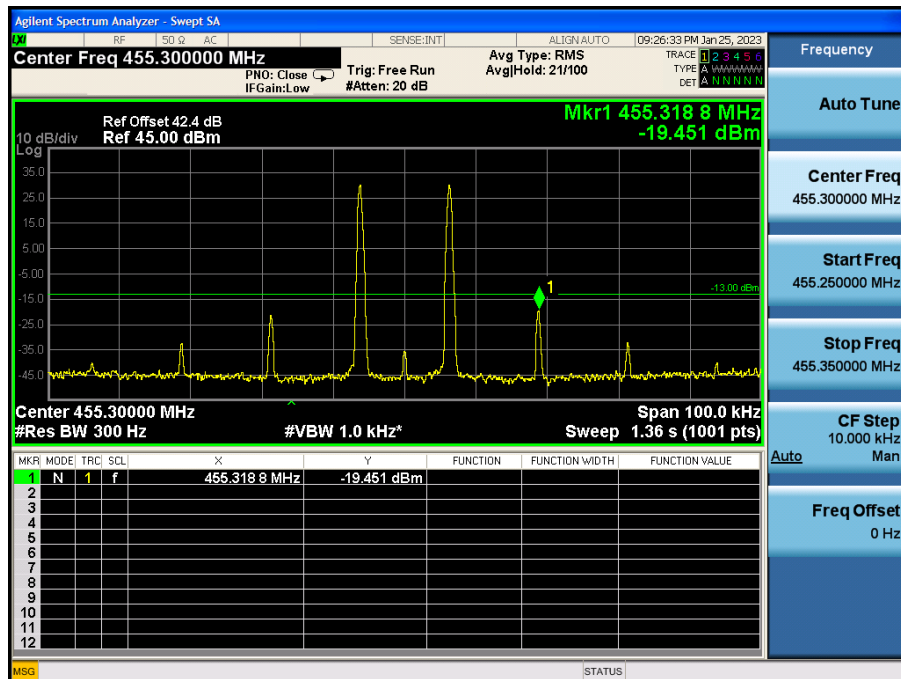


Intermodulation

DL_12.5kHz_Pre-AGC

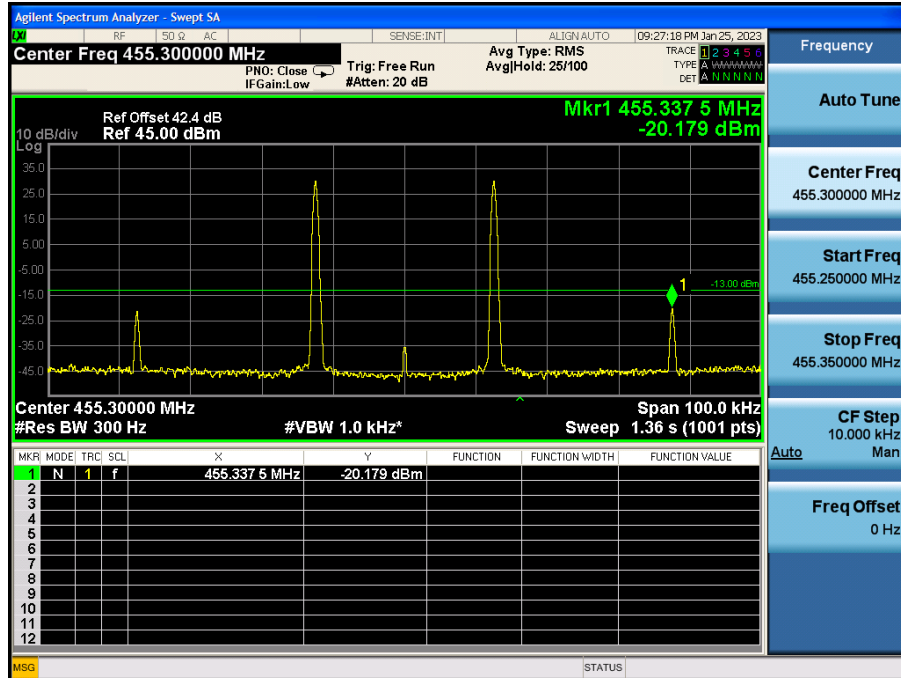


DL_12.5kHz_3dB above AGC

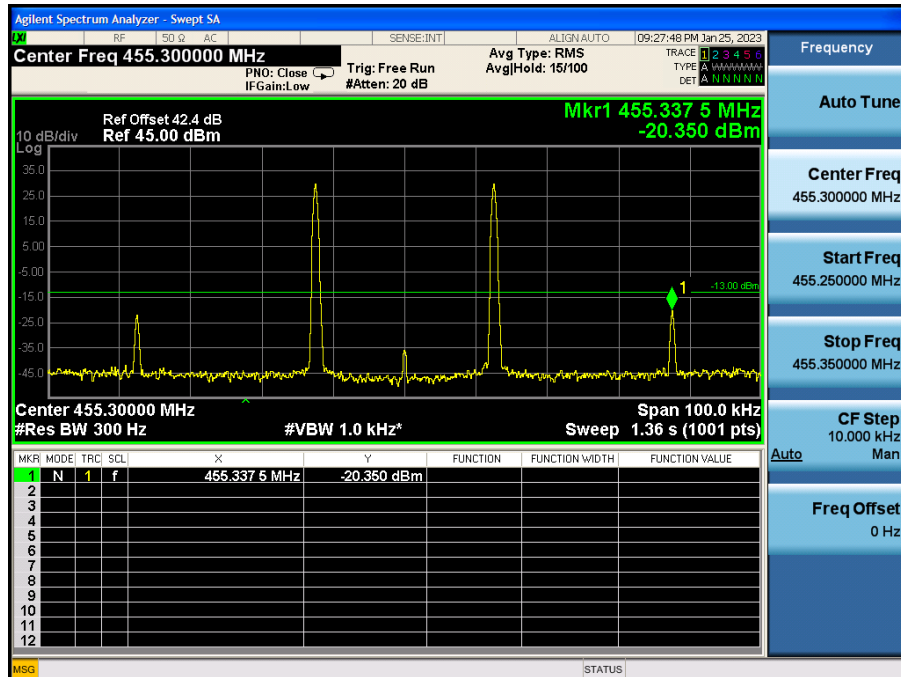


Intermodulation

DL_25kHz_Pre-AGC



DL_25kHz_3dB above AGC



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	-26.30	≤-13	PASS
			1000-5120	-24.34	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.						

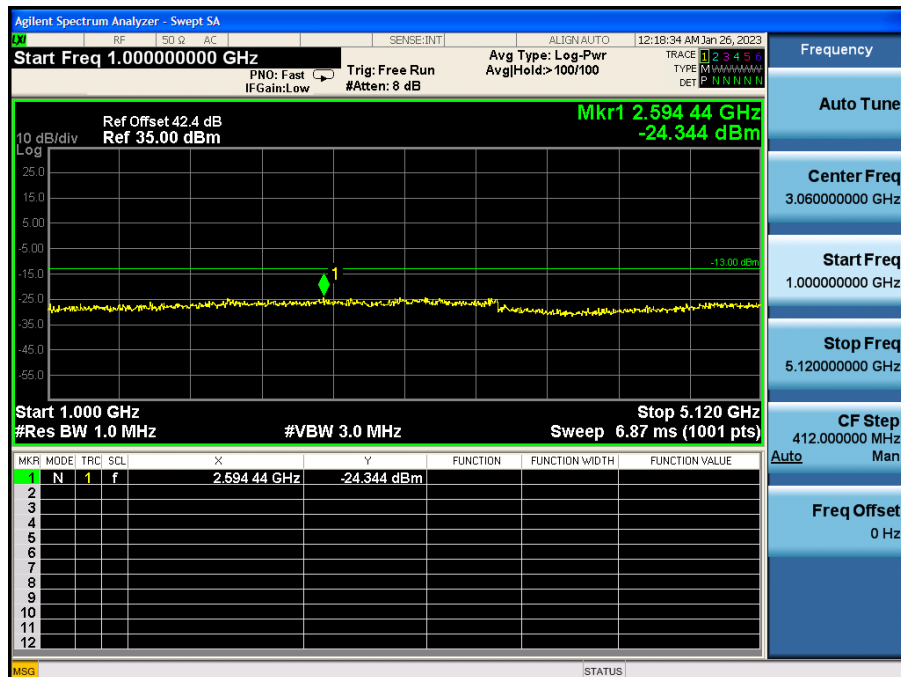
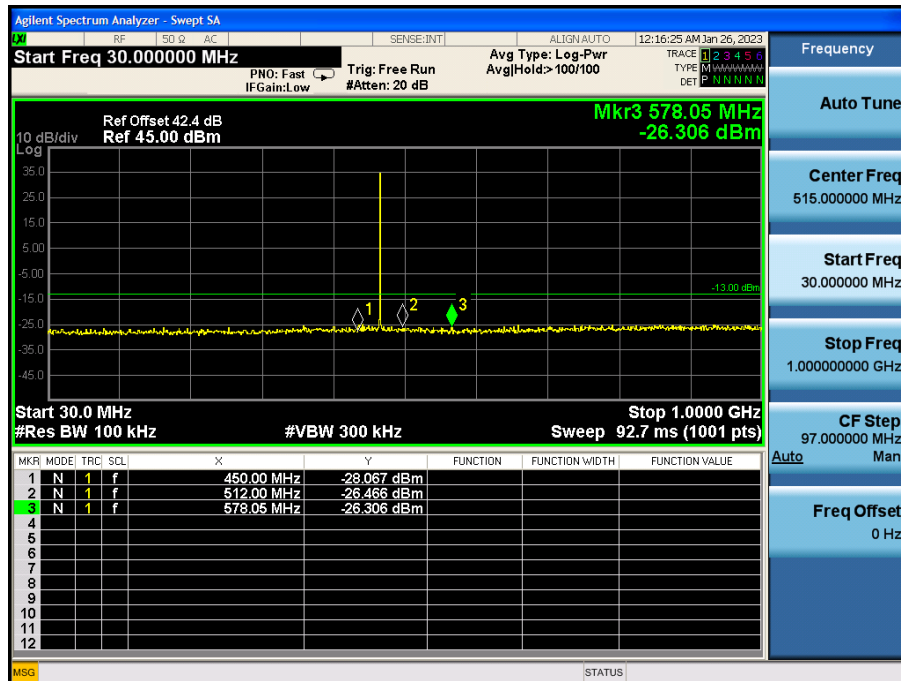


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Conducted Spurious emissions

DL_CW_MCH



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8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	450-512	-36.11
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-449	-43.81
	513-5120	-44.69

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 -36.11/10kHz+ 0dBi- 2.15dB= -38.26dBm, 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 -43.81/10kHz+ 0dBi- 2.15dB= -45.96dBm, 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.

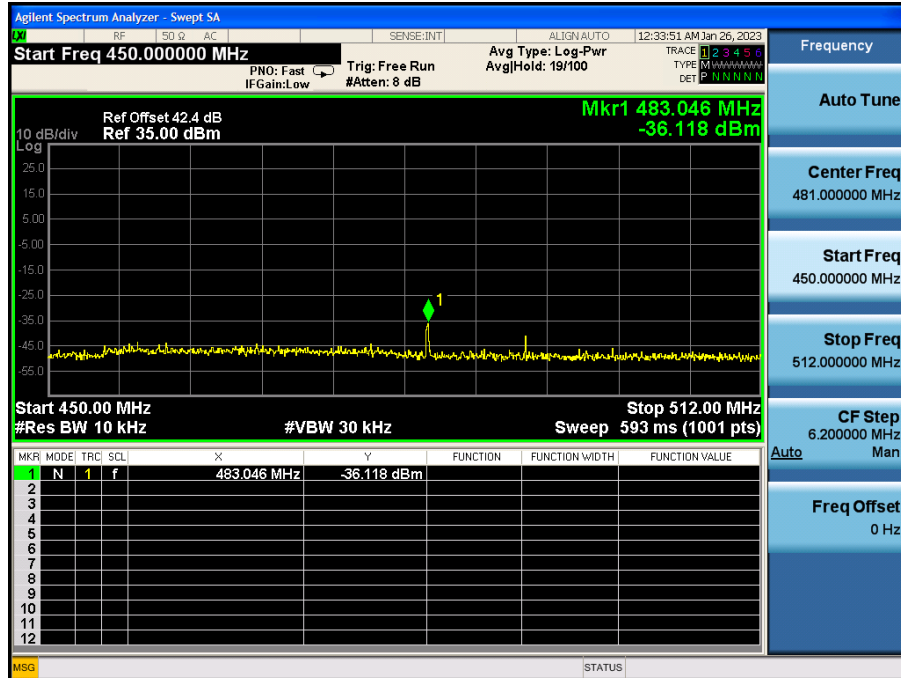


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Noise within the passband

DL

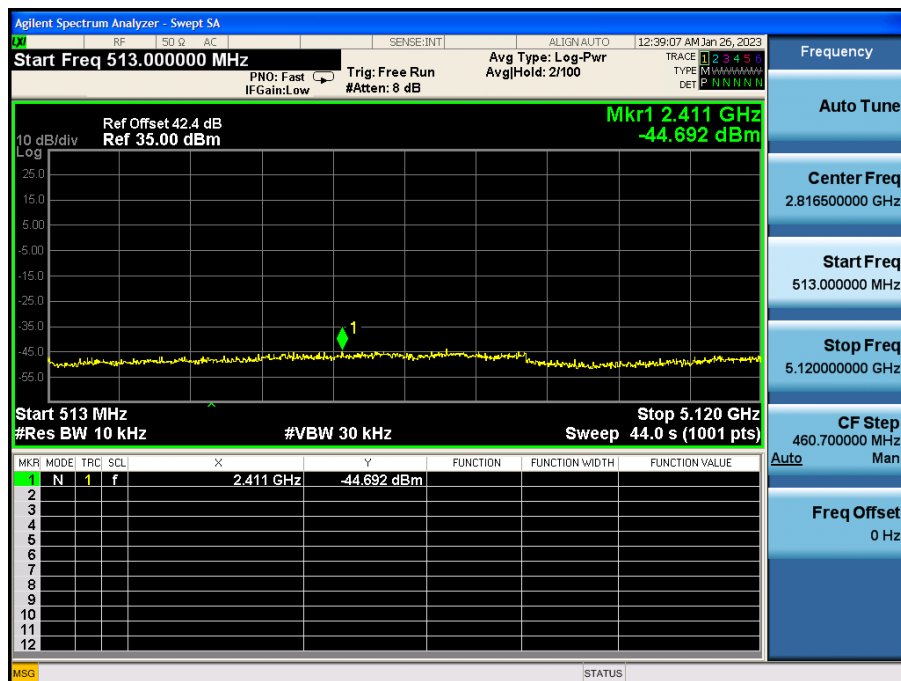
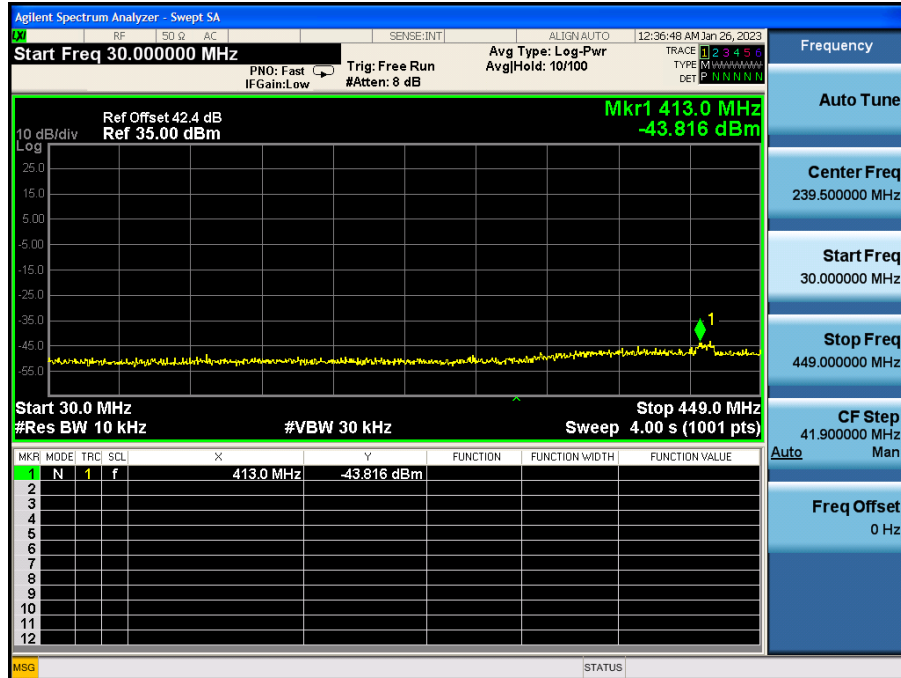


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Noise outside the passband

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	2.4	0.00499	PASS
			TN	VH	2.4	0.00499	PASS
	DMR	MCH	TN	VL	3.8	0.00790	PASS
			TN	VH	3.8	0.00790	PASS
	C4FM	MCH	TN	VL	3.4	0.00707	PASS
			TN	VH	3.4	0.00707	PASS
	H-DQPSK	MCH	TN	VL	3.1	0.00644	PASS
			TN	VH	3.2	0.00665	PASS
	TETRA	MCH	TN	VL	2.6	0.00541	PASS
			TN	VH	2.6	0.00541	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	FM	MCH	VN	+50	3.0	0.00624	PASS
			VN	+40	2.5	0.00520	PASS
			VN	+30	2.3	0.00478	PASS
			VN	+20	4.1	0.00852	PASS
			VN	+10	2.4	0.00499	PASS
			VN	0	2.2	0.00457	PASS
			VN	-10	2.9	0.00603	PASS
			VN	-20	1.9	0.00395	PASS
			VN	-30	3.3	0.00686	PASS
	DMR	MCH	VN	+50	2.2	0.00457	PASS
			VN	+40	2.7	0.00561	PASS
			VN	+30	1.2	0.00249	PASS
			VN	+20	3.9	0.00811	PASS
			VN	+10	3.4	0.00707	PASS
			VN	0	3.5	0.00728	PASS
			VN	-10	3.3	0.00686	PASS
			VN	-20	3.7	0.00769	PASS
			VN	-30	2.3	0.00478	PASS
	C4FM	MCH	VN	+50	2.8	0.00582	PASS
			VN	+40	2.5	0.00520	PASS
			VN	+30	3.8	0.00790	PASS
			VN	+20	1.8	0.00374	PASS
			VN	+10	3.7	0.00769	PASS
			VN	0	2.9	0.00603	PASS
			VN	-10	3.8	0.00790	PASS
			VN	-20	3.7	0.00769	PASS
			VN	-30	3.5	0.00728	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	3.8	0.00790	PASS
			VN	+40	2.7	0.00561	PASS
			VN	+30	3.2	0.00665	PASS
			VN	+20	2.8	0.00582	PASS
			VN	+10	1.9	0.00395	PASS
			VN	0	1.6	0.00333	PASS
			VN	-10	4.1	0.00852	PASS
			VN	-20	1.4	0.00291	PASS
			VN	-30	2.5	0.00520	PASS
	TRTRA	MCH	VN	+50	2.6	0.00541	PASS
			VN	+40	2.7	0.00561	PASS
			VN	+30	1.3	0.00270	PASS
			VN	+20	1.3	0.00270	PASS
			VN	+10	3.1	0.00644	PASS
			VN	0	2.9	0.00603	PASS
			VN	-10	3.8	0.00790	PASS
			VN	-20	3.5	0.00728	PASS
			VN	-30	3.7	0.00769	PASS



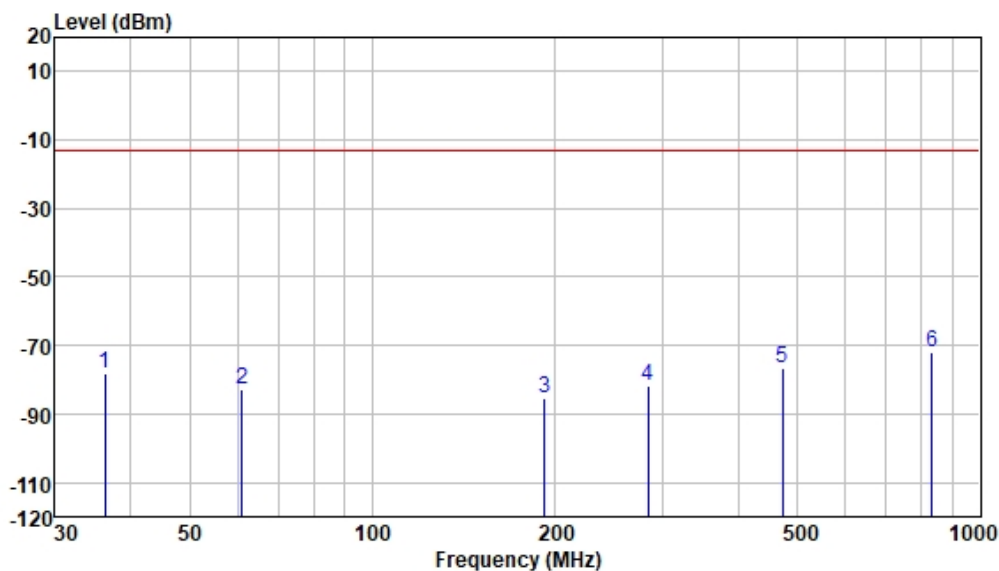
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10 Radiated Spurious emissions below 1GHz

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	36.25	-80.99	2.67	-78.32	-13.00	-65.32	HORIZONTAL
2	60.92	-80.29	-2.75	-83.04	-13.00	-70.04	HORIZONTAL
3	191.75	-78.79	-6.35	-85.14	-13.00	-72.14	HORIZONTAL
4	283.98	-79.37	-2.52	-81.89	-13.00	-68.89	HORIZONTAL
5	472.18	-76.89	0.33	-76.56	-13.00	-63.56	HORIZONTAL
6	833.32	-78.86	7.14	-71.72	-13.00	-58.72	HORIZONTAL

Remark:

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

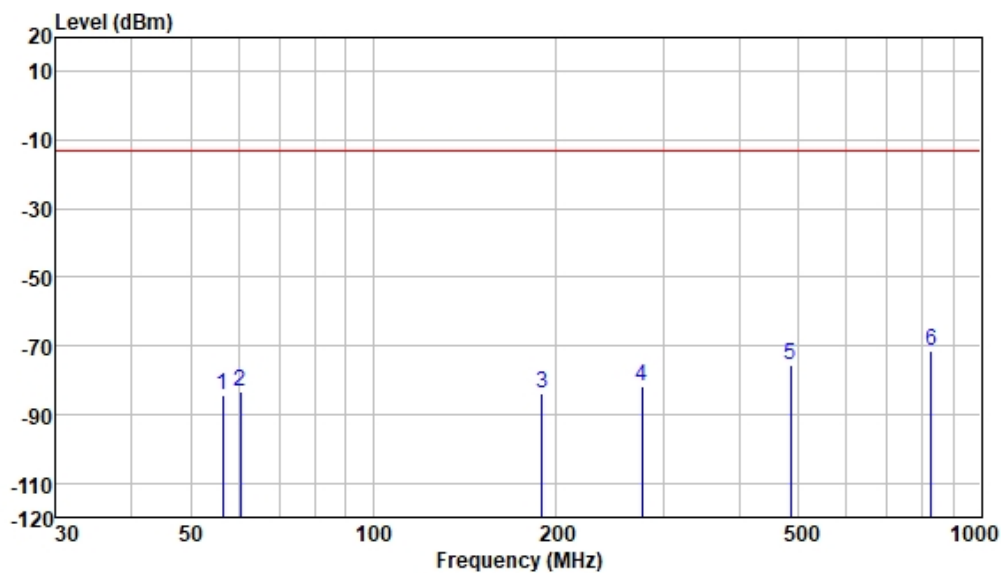


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Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	56.39	-81.09	-3.37	-84.46	-13.00	-71.46	VERTICAL
2	60.28	-81.27	-2.19	-83.46	-13.00	-70.46	VERTICAL
3	189.07	-79.33	-4.27	-83.60	-13.00	-70.60	VERTICAL
4	276.12	-79.00	-2.94	-81.94	-13.00	-68.94	VERTICAL
5	485.61	-77.44	1.96	-75.48	-13.00	-62.48	VERTICAL
6	827.49	-79.22	7.66	-71.56	-13.00	-58.56	VERTICAL

Remark:

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



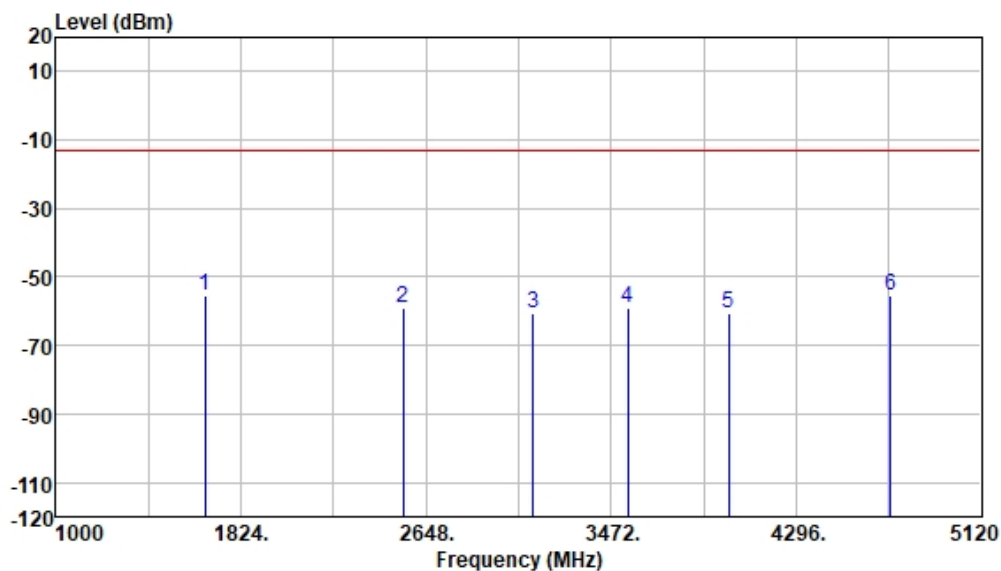
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11 Radiated Spurious emissions above 1GHz

Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1663.32	-61.52	5.97	-55.55	-13.00	-42.55	HORIZONTAL
2	2545.00	-65.54	6.59	-58.95	-13.00	-45.95	HORIZONTAL
3	3125.92	-62.89	2.31	-60.58	-13.00	-47.58	HORIZONTAL
4	3546.16	-63.10	3.95	-59.15	-13.00	-46.15	HORIZONTAL
5	3995.24	-63.15	2.69	-60.46	-13.00	-47.46	HORIZONTAL
6	4716.24	-63.10	7.89	-55.21	-13.00	-42.21	HORIZONTAL

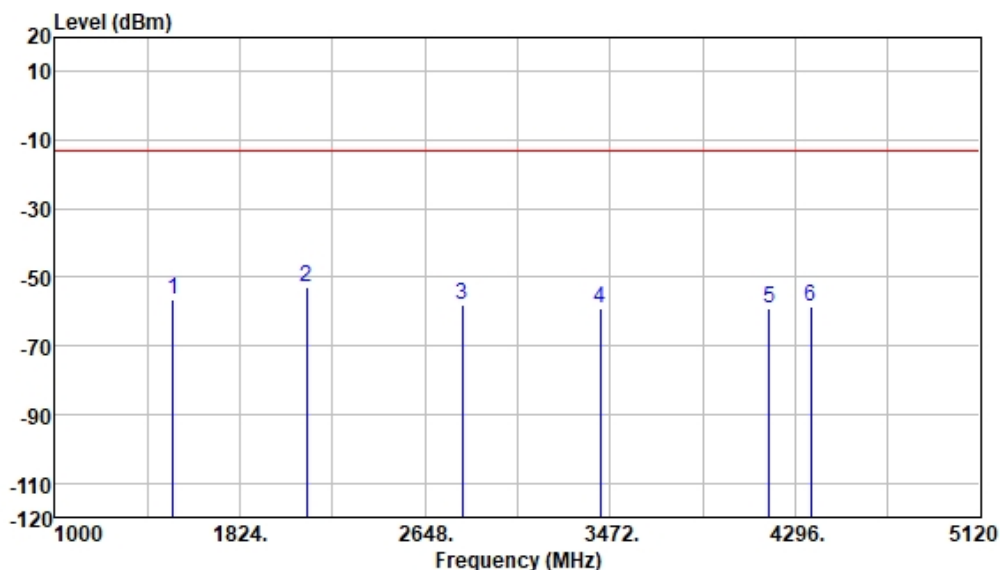


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1527.36	-62.68	6.45	-56.23	-13.00	-43.23	VERTICAL
2	2120.64	-61.95	9.15	-52.80	-13.00	-39.80	VERTICAL
3	2812.80	-62.36	4.17	-58.19	-13.00	-45.19	VERTICAL
4	3426.68	-62.50	3.31	-59.19	-13.00	-46.19	VERTICAL
5	4180.64	-63.05	4.13	-58.92	-13.00	-45.92	VERTICAL
6	4366.04	-63.36	4.75	-58.61	-13.00	-45.61	VERTICAL

--End of Appendix--



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