Appendix -

Test Data and Result for report

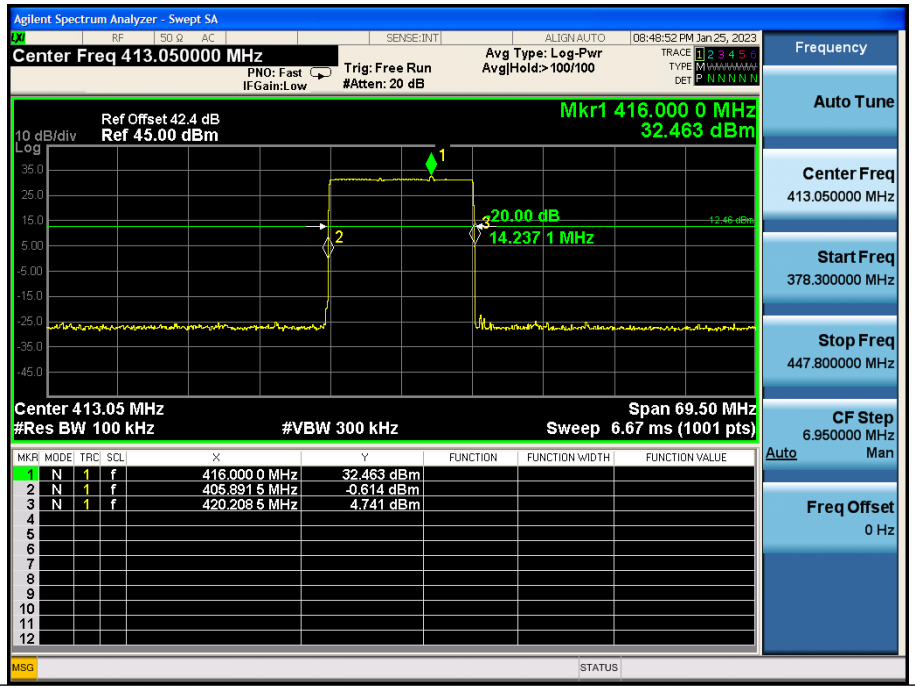
GZCR250400053601 (B)

(For UHF-1: 406.1-420MHz)

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1 Out-of-band rejection

Out-of-band rejection
DL



1. The peak of the frequency response f0 is 416.0MHz.
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	-58.75dBm
	DMR	MCH	-58.75dBm
	C4FM	MCH	-58.70dBm
	H-DQPSK	MCH	-58.70dBm
	TETRA	MCH	-58.80dBm

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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
	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.				

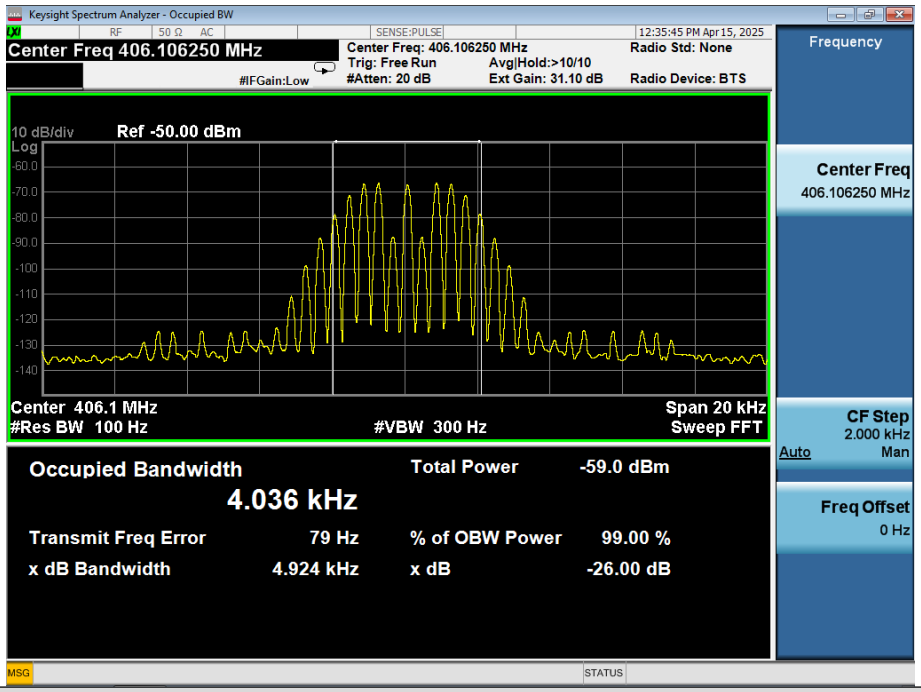
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Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	TETRA	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
Remark: Compare the spectral plot of the 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.				

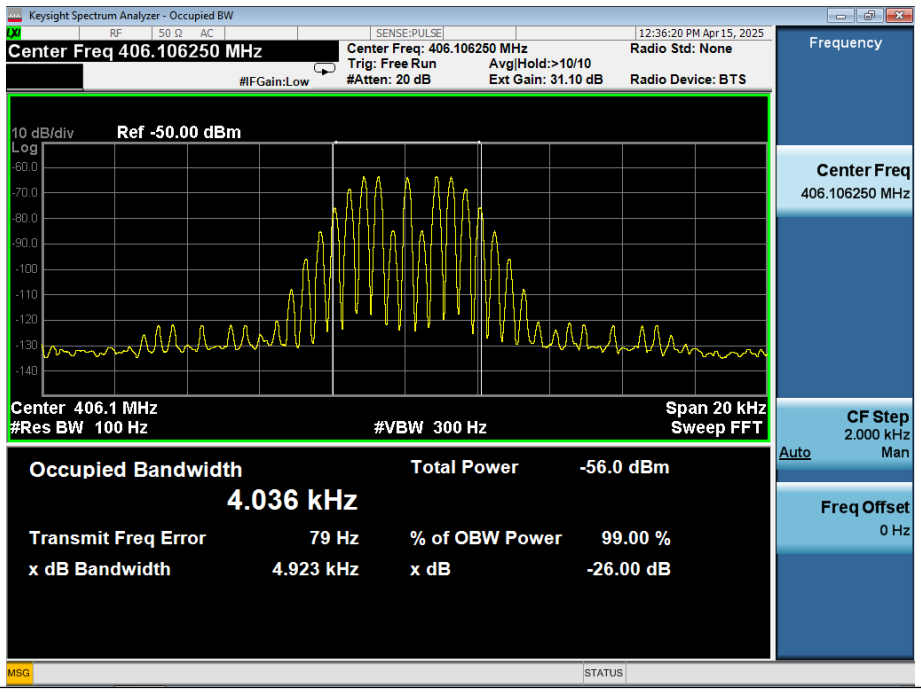
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DL_FM_LCH_Input_Pre-AGC



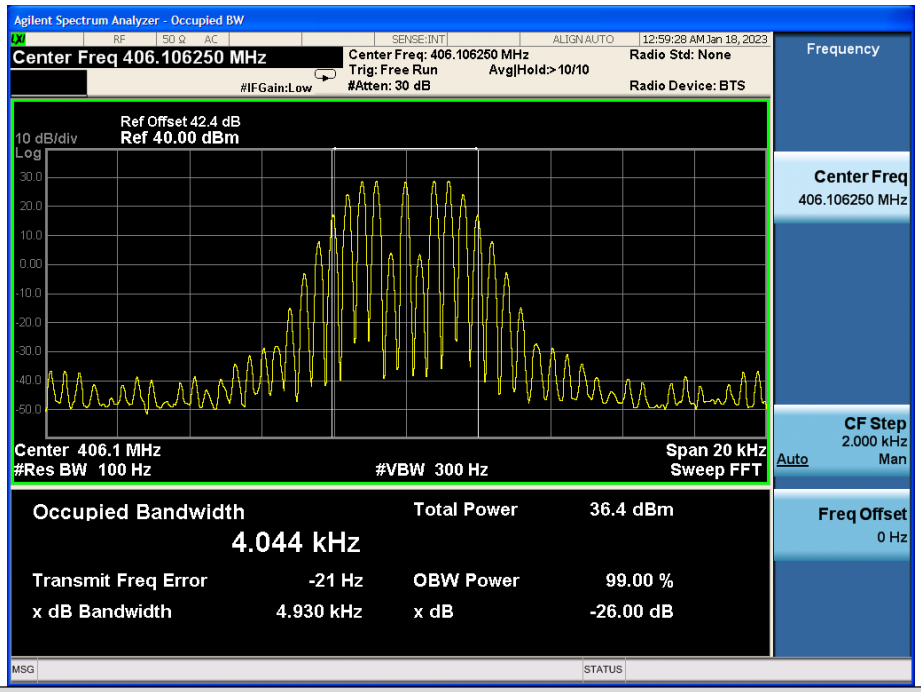
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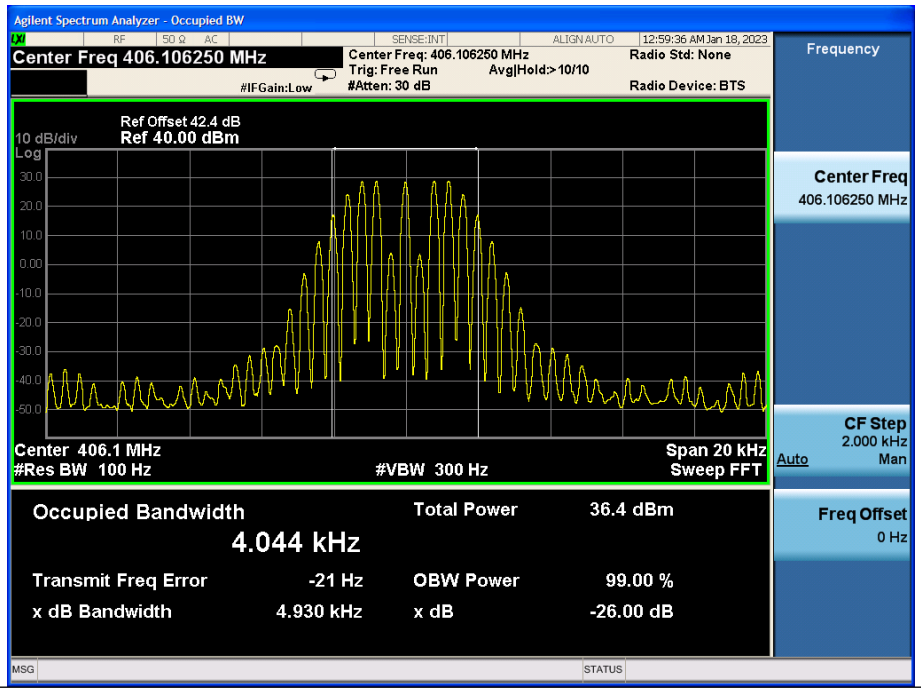
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DL_FM_LCH_Output_Pre-AGC



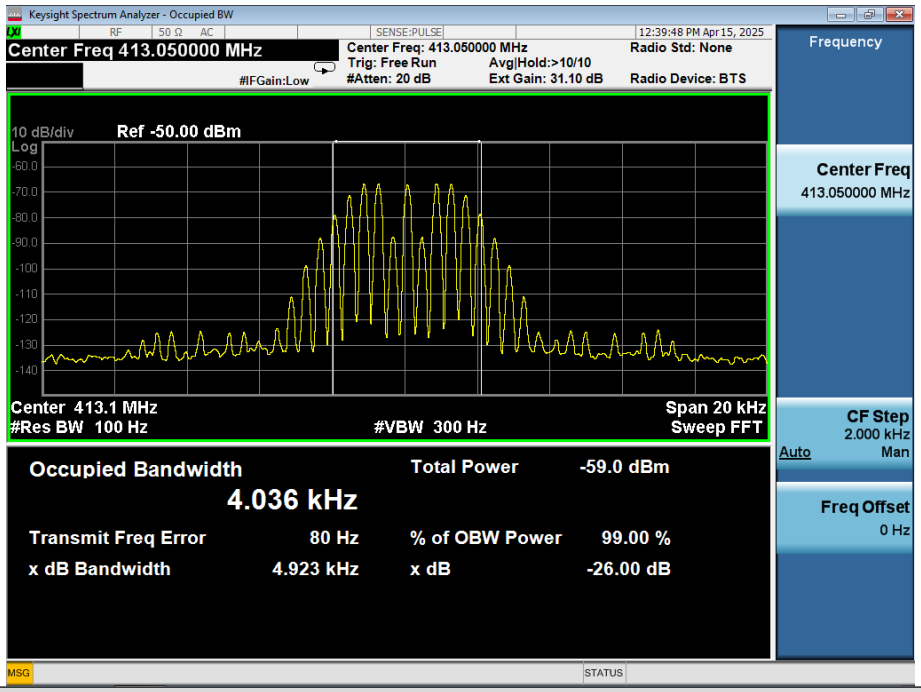
DL_FM_LCH_Output_3dB above AGC



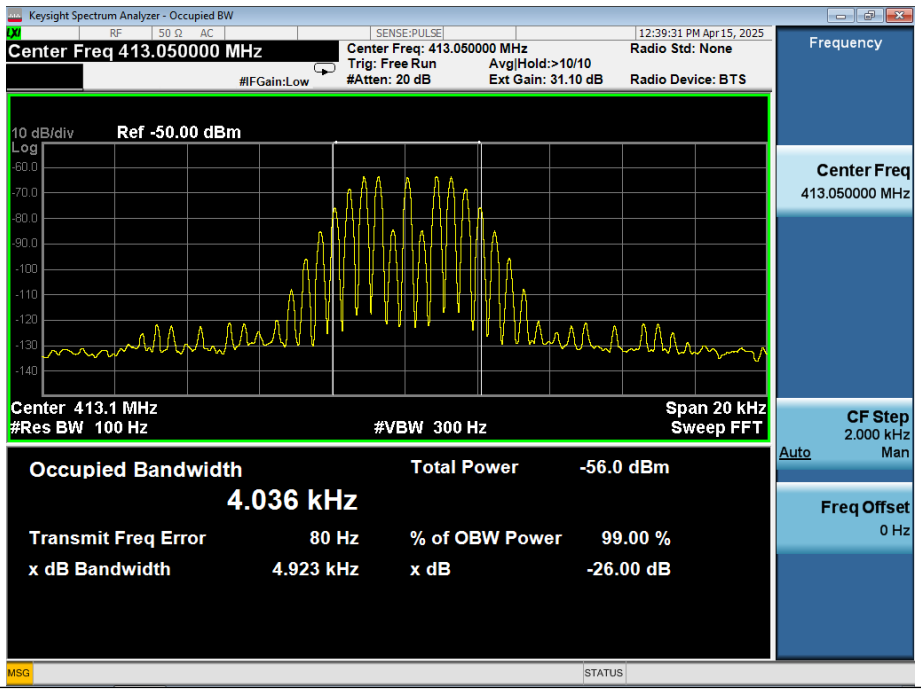
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DL_FM_MCH_Input_Pre-AGC



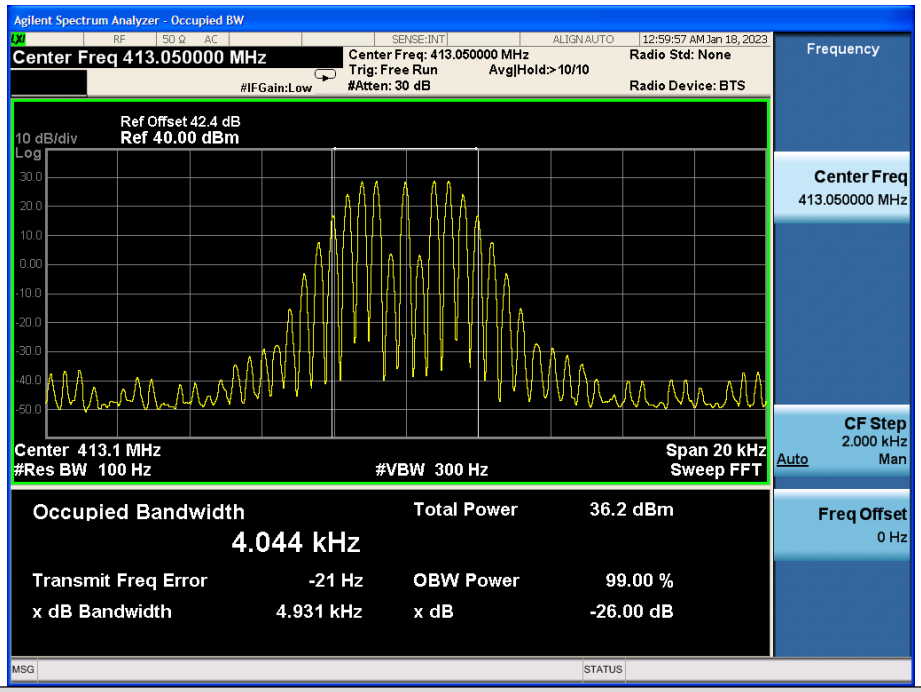
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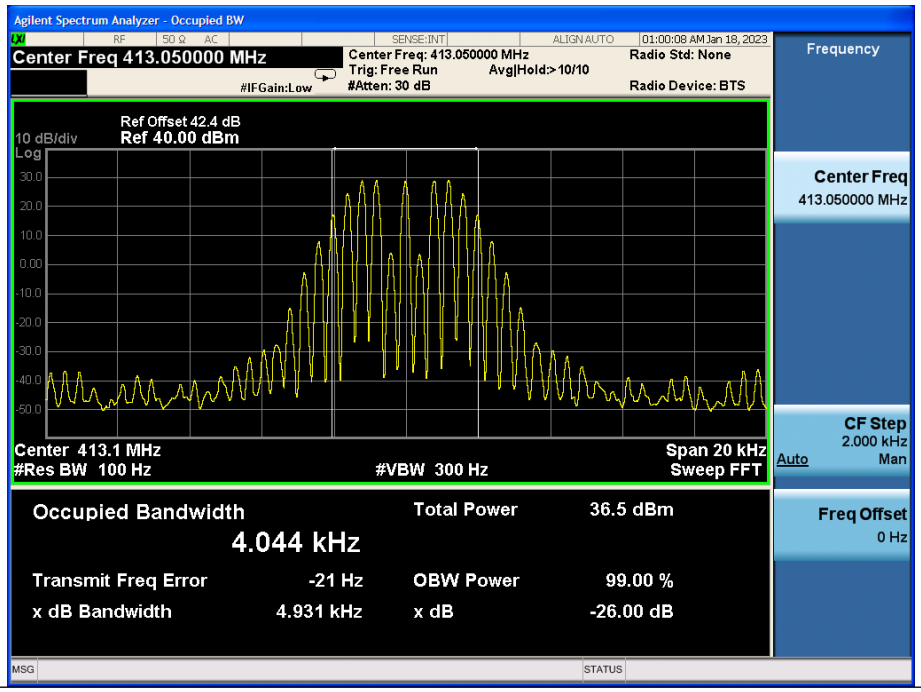
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DL_FM_MCH_Output_Pre-AGC



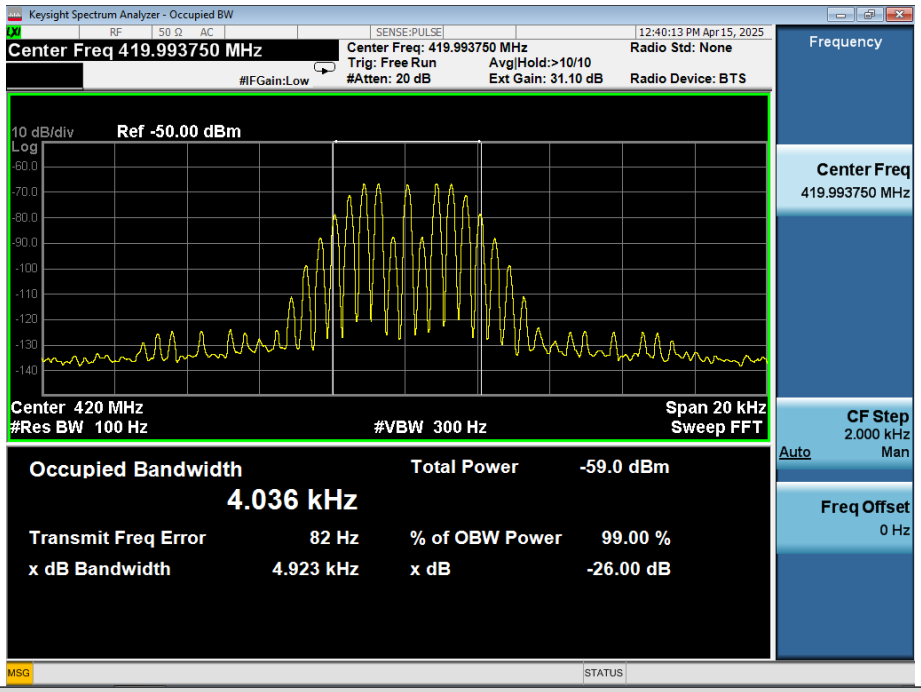
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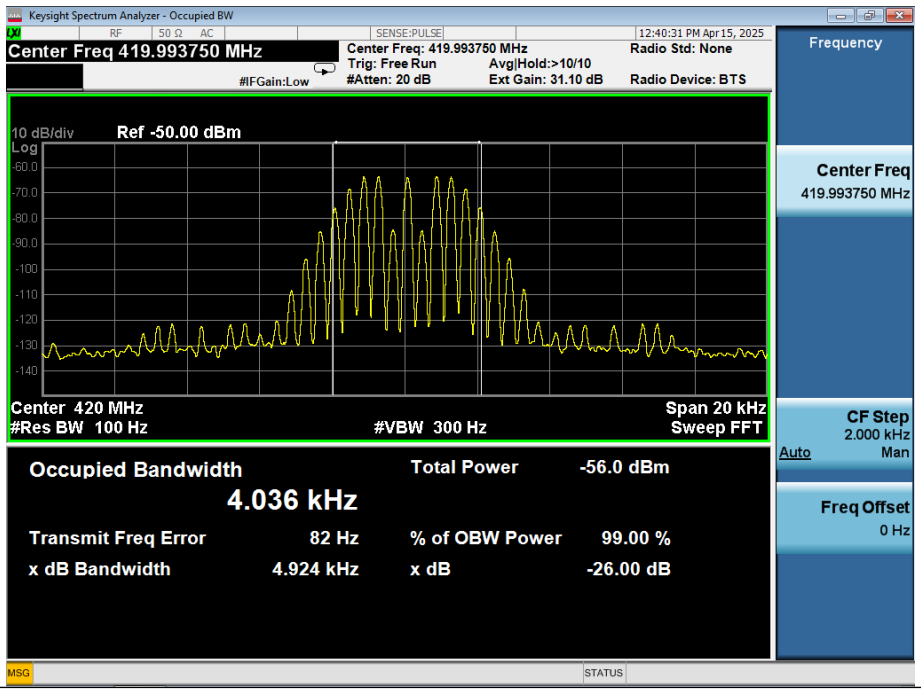
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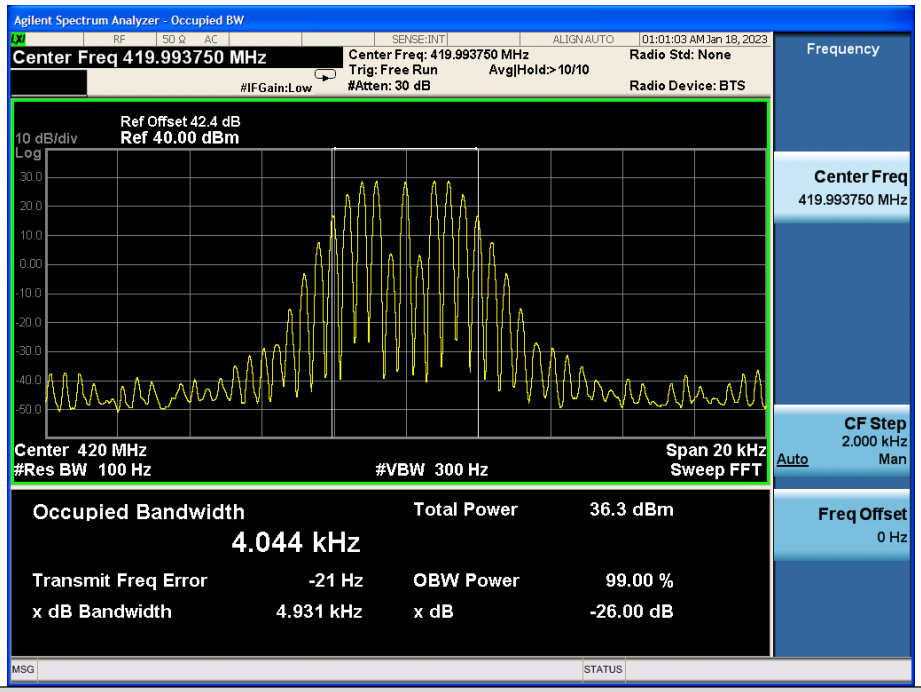
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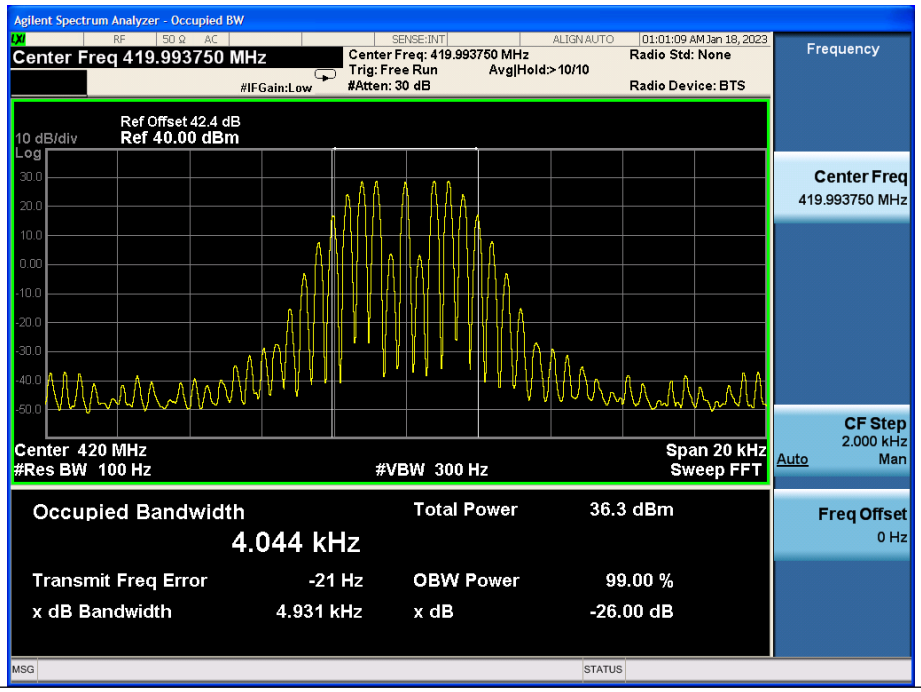
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DL_FM_HCH_Output_Pre-AGC



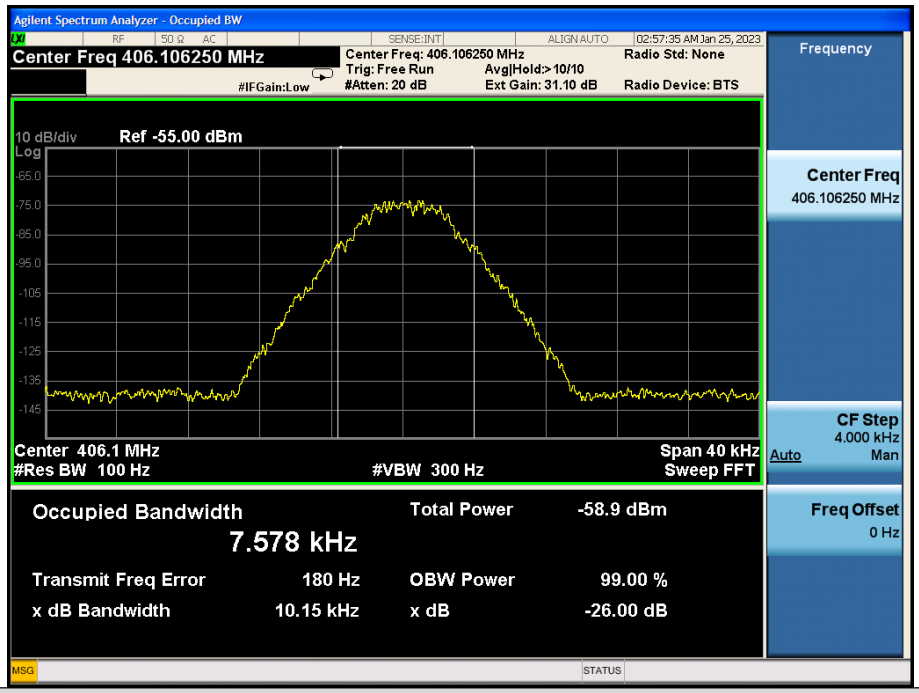
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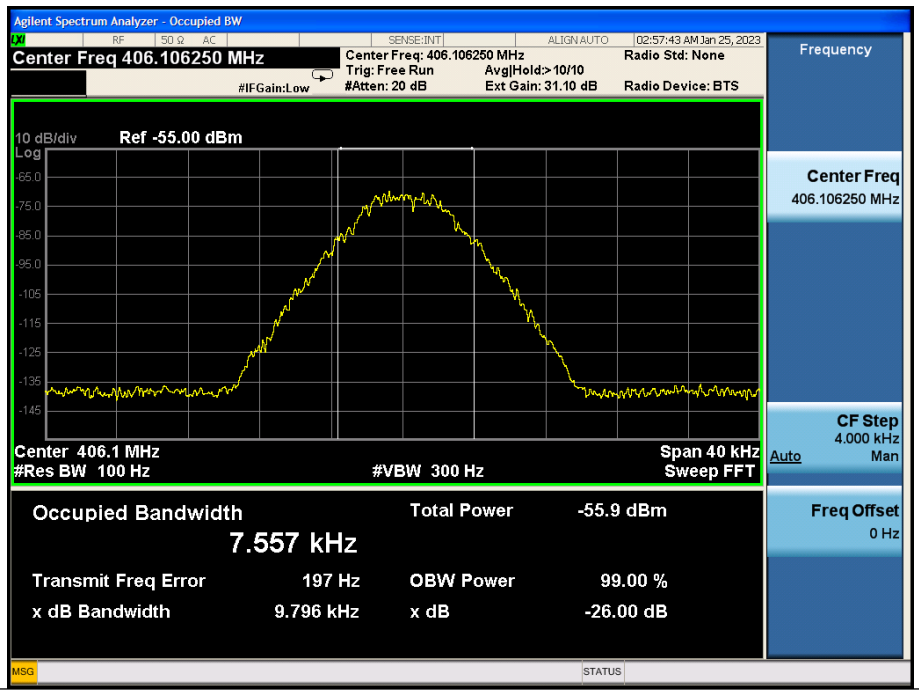
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DL_DMR_LCH_Input_Pre-AGC



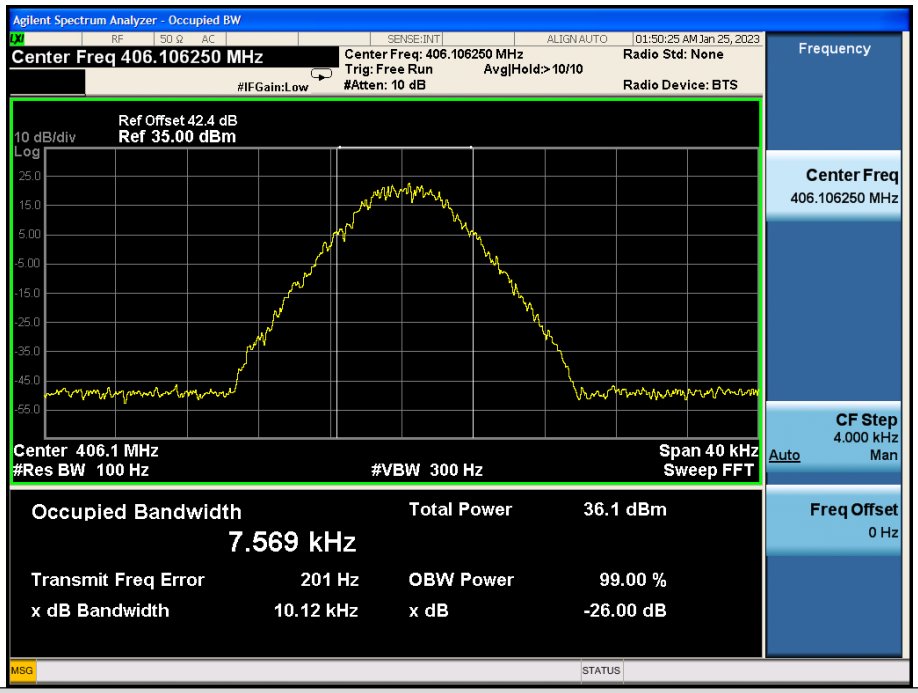
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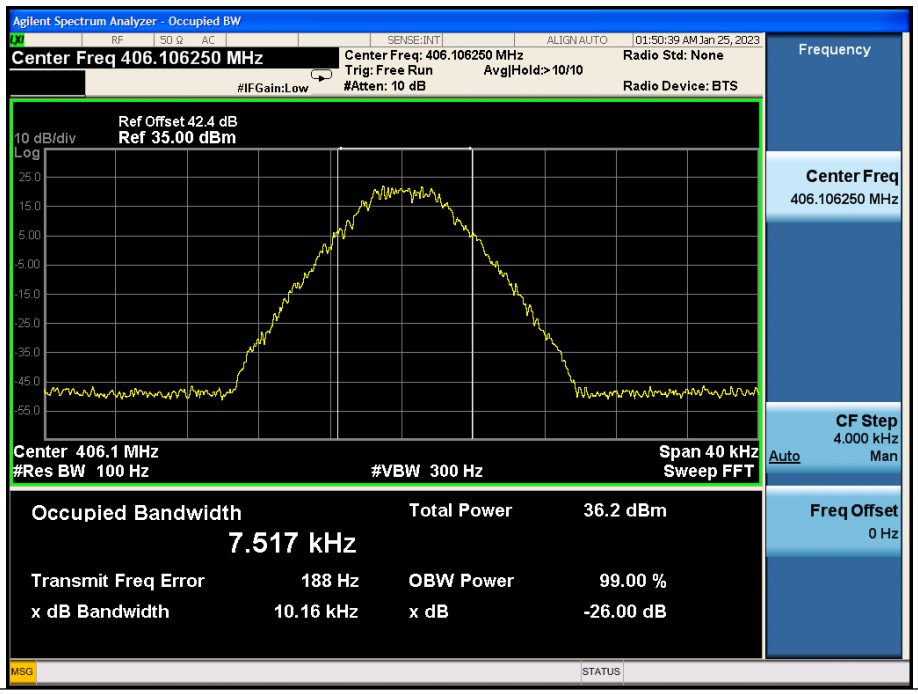
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DL_DMR_LCH_Output_Pre-AGC



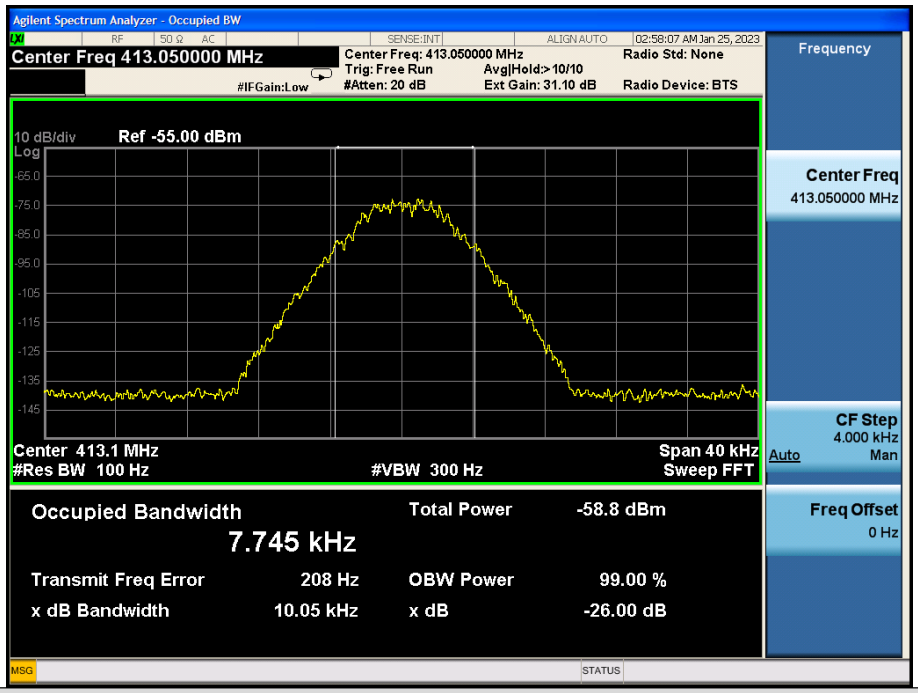
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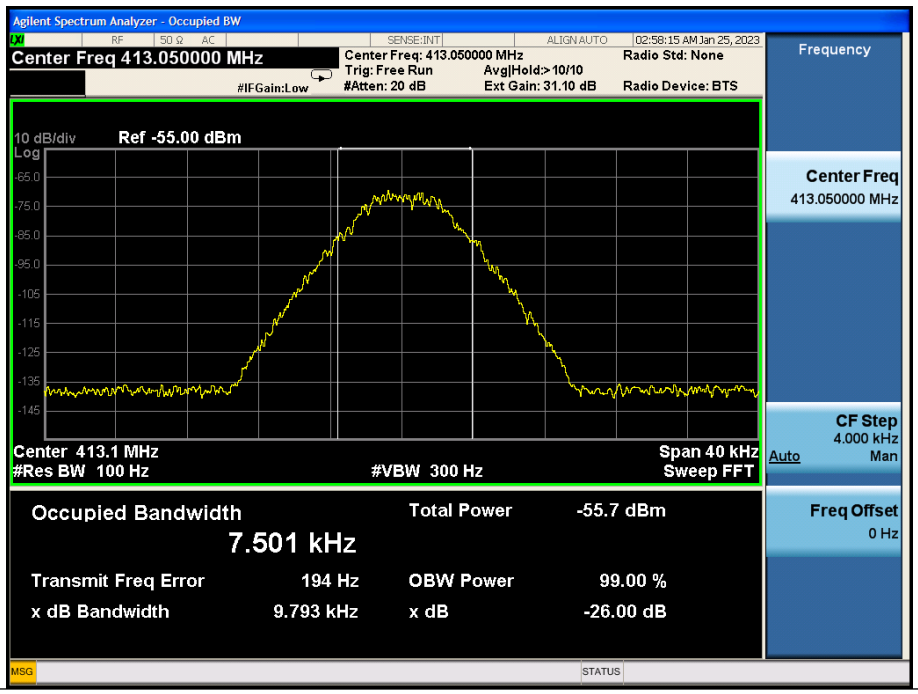
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DL_DMR_MCH_Input_Pre-AGC



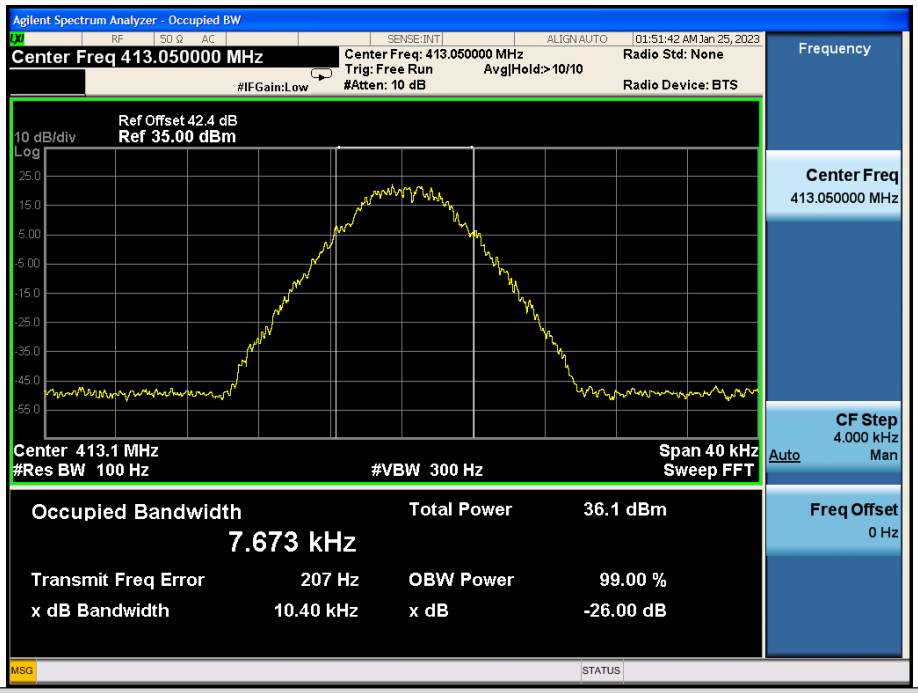
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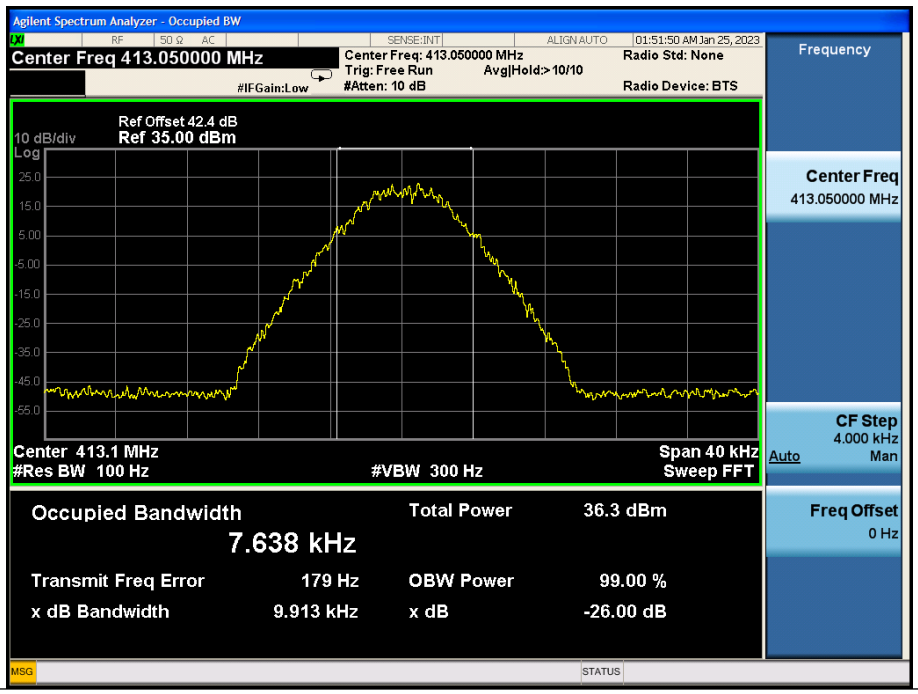
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DL_DMR_MCH_Output_Pre-AGC



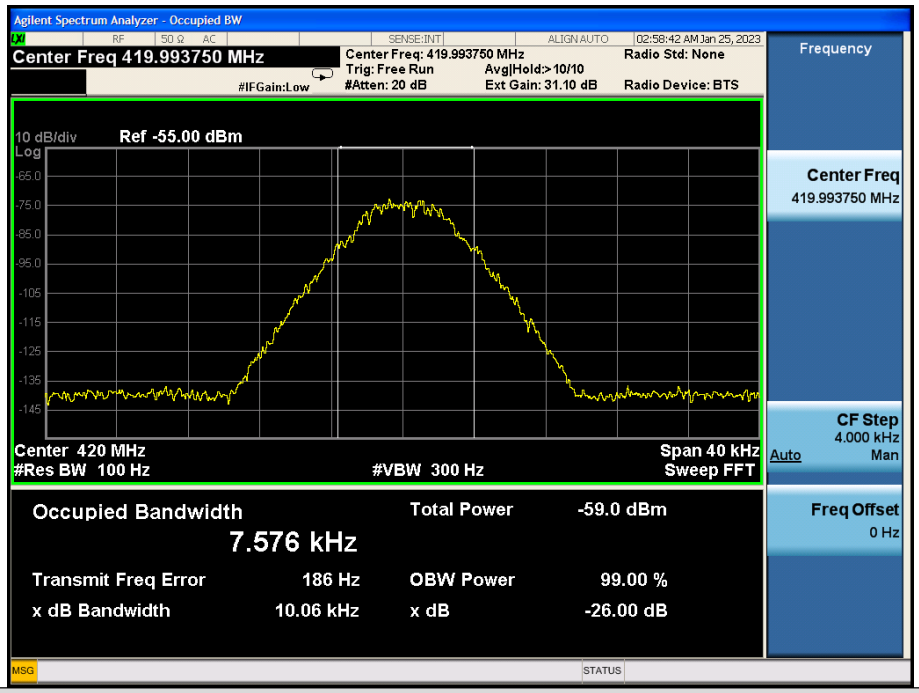
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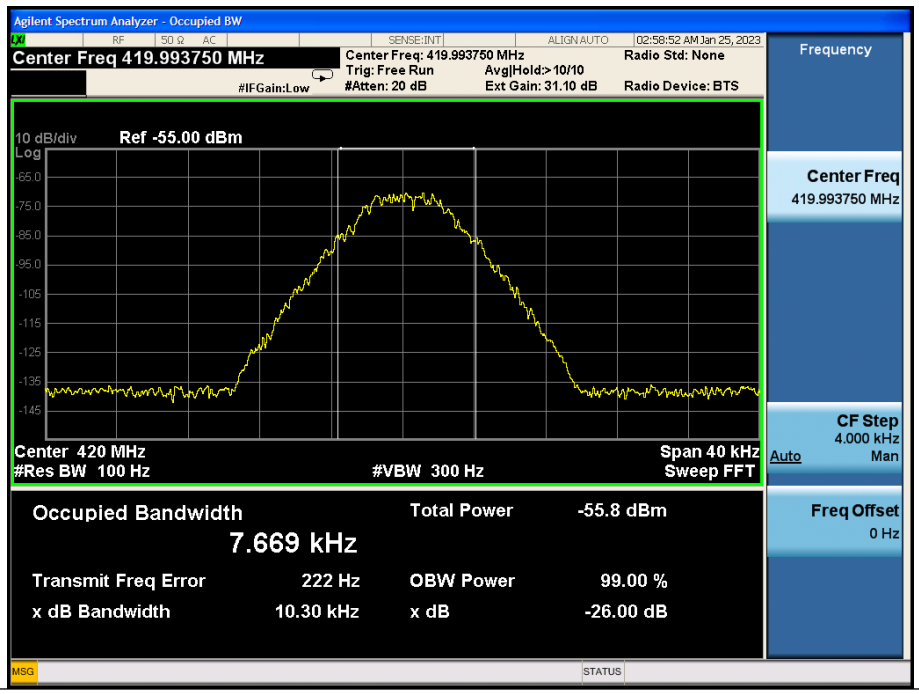
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DL_DMR_HCH_Input_Pre-AGC



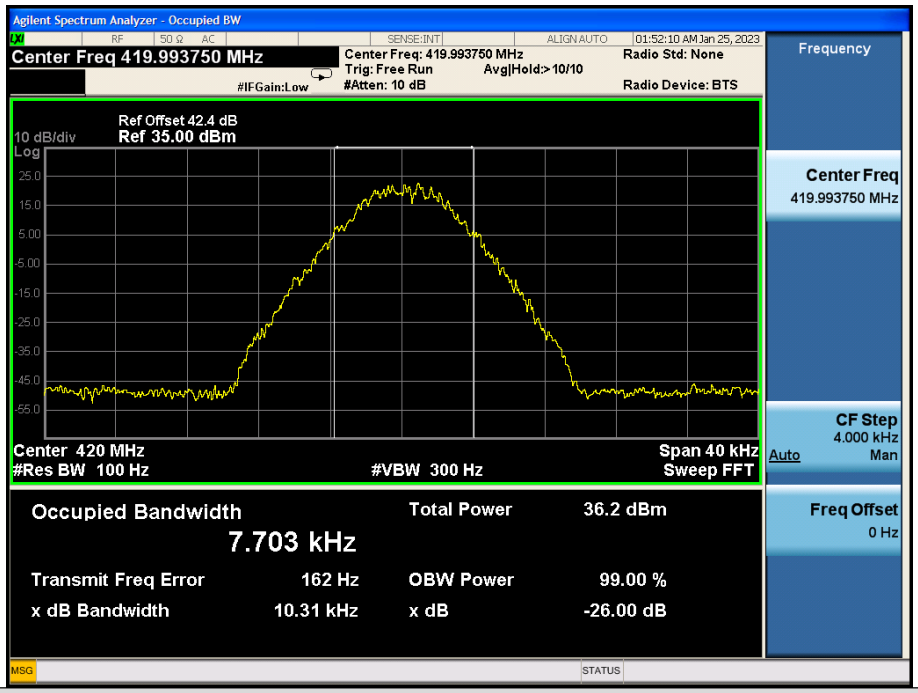
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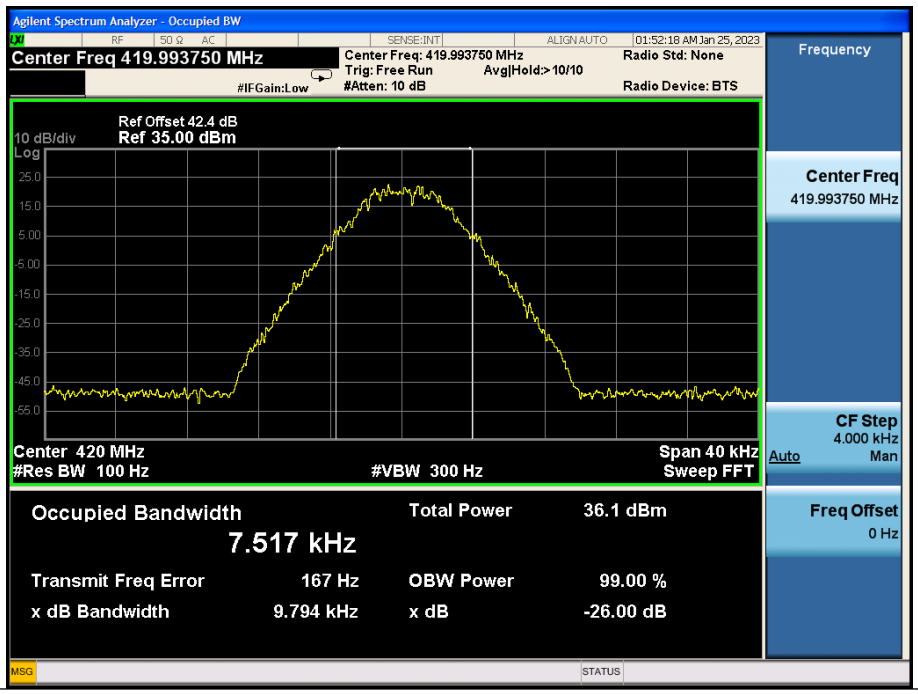
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DL_DMR_HCH_Output_Pre-AGC



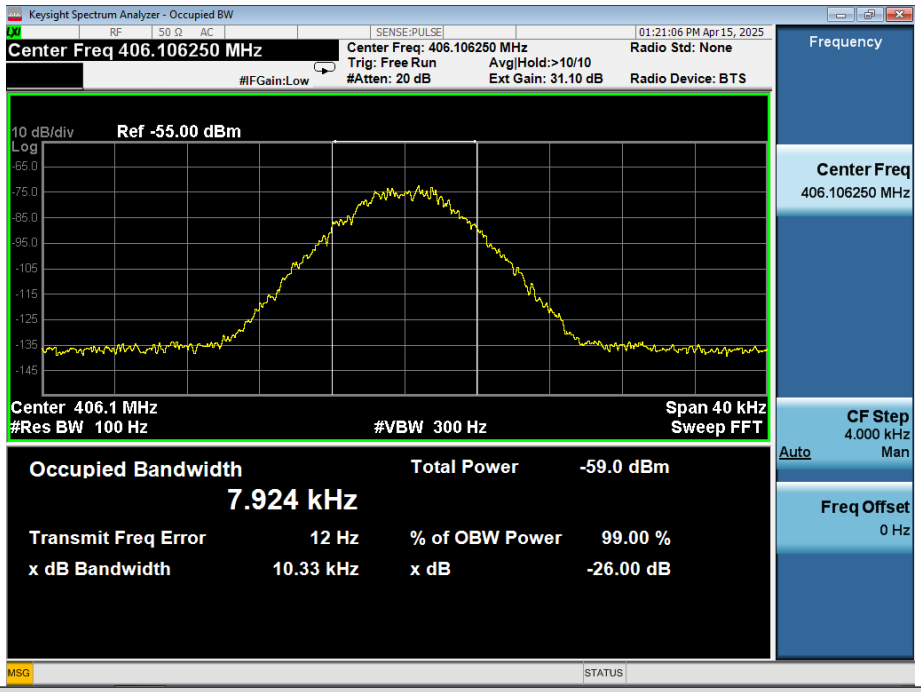
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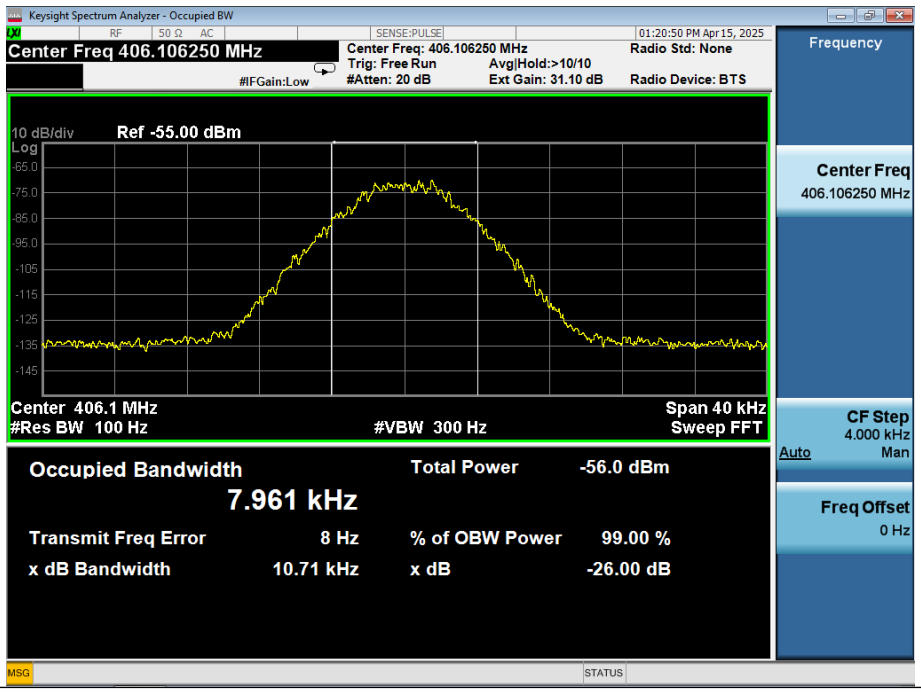
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DL_C4FM_LCH_Input_Pre-AGC



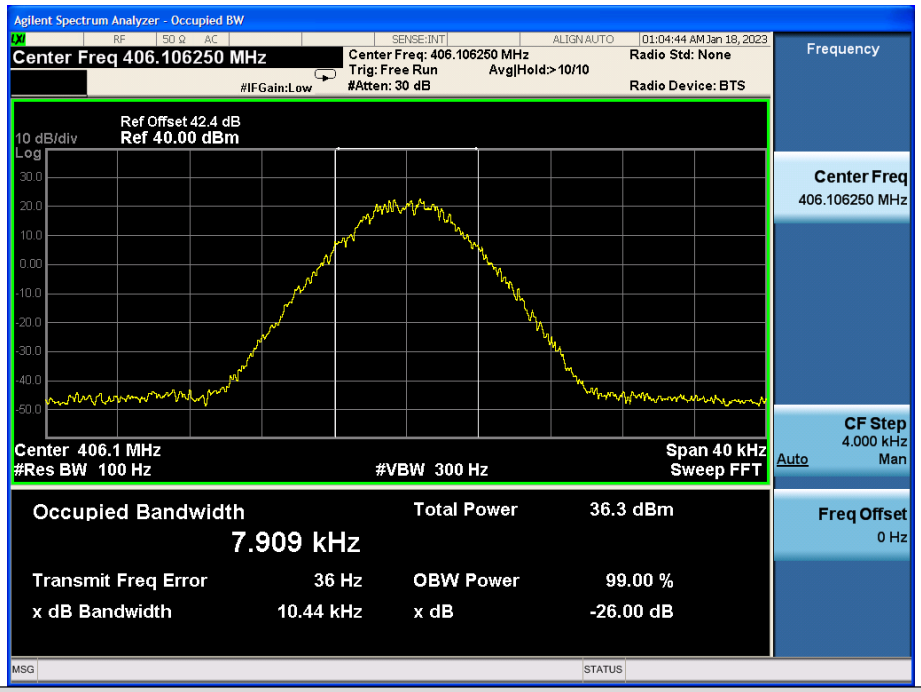
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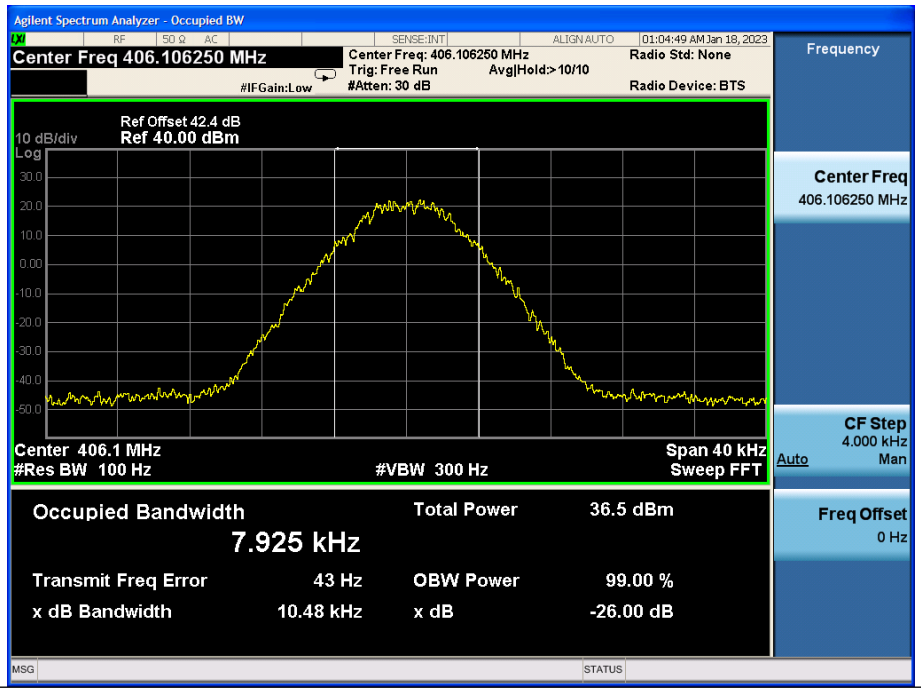
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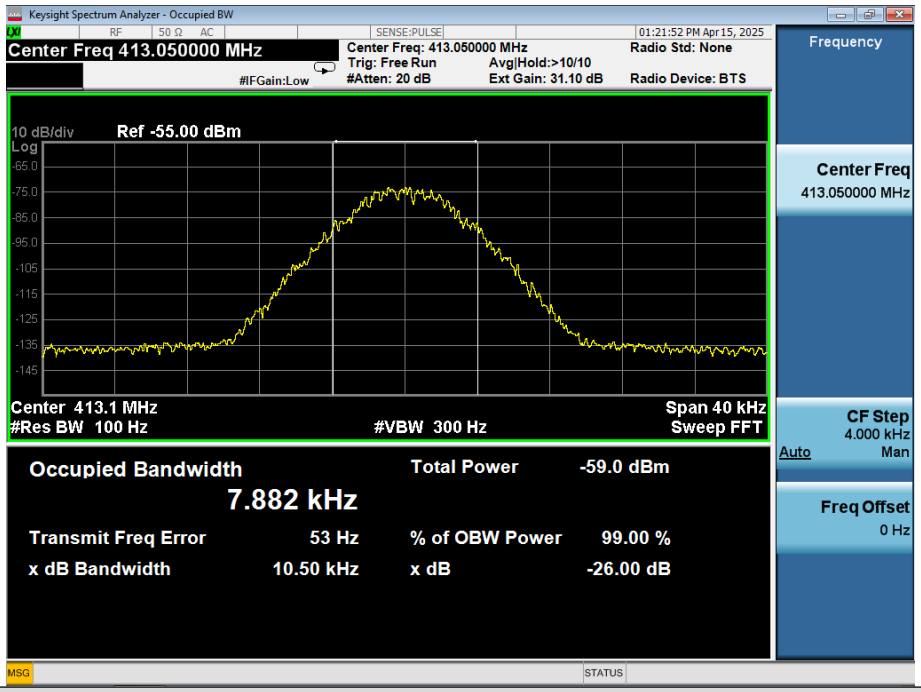
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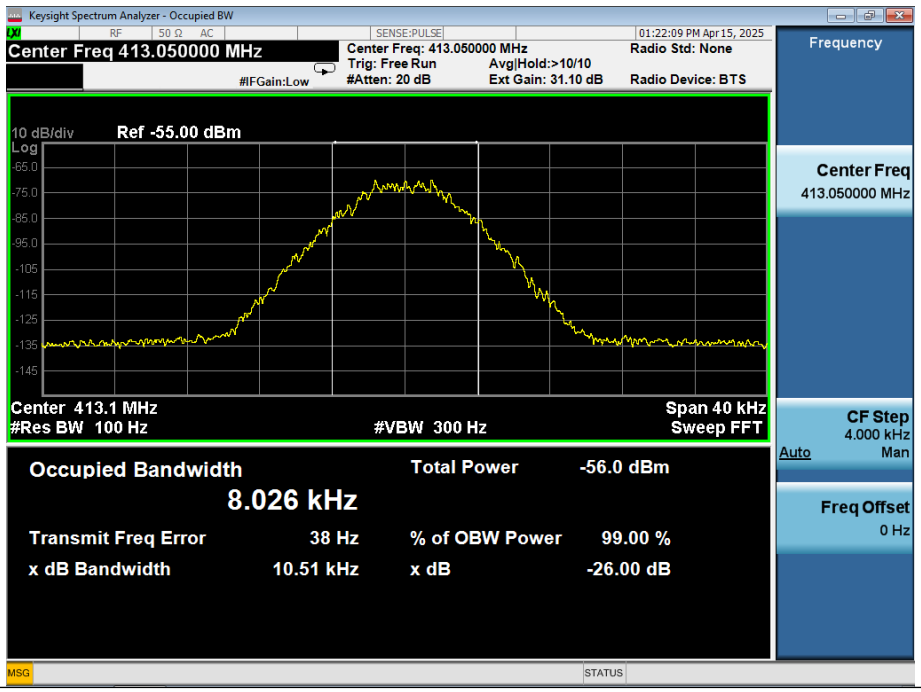
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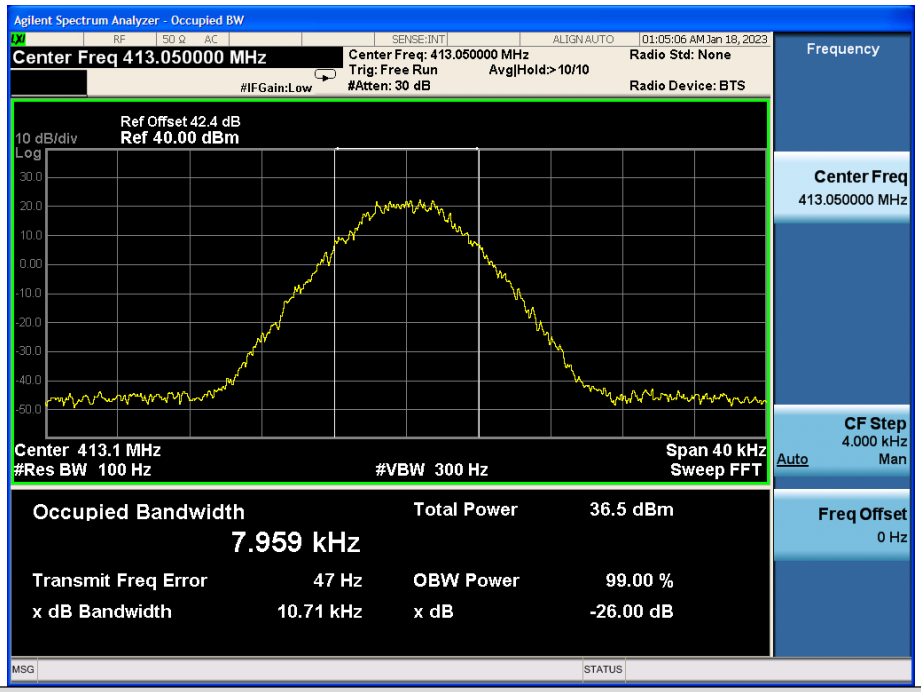
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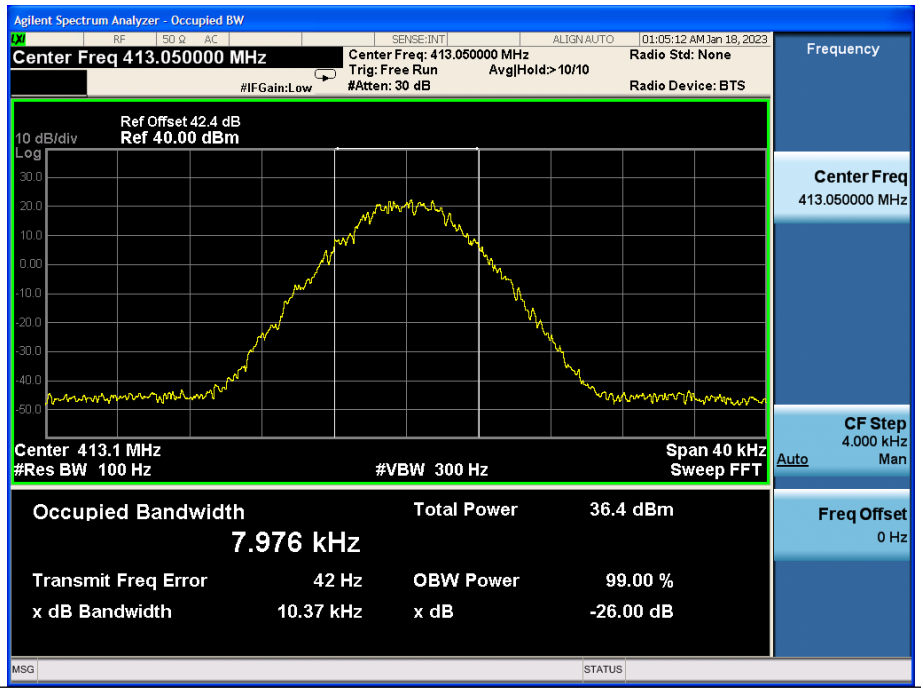
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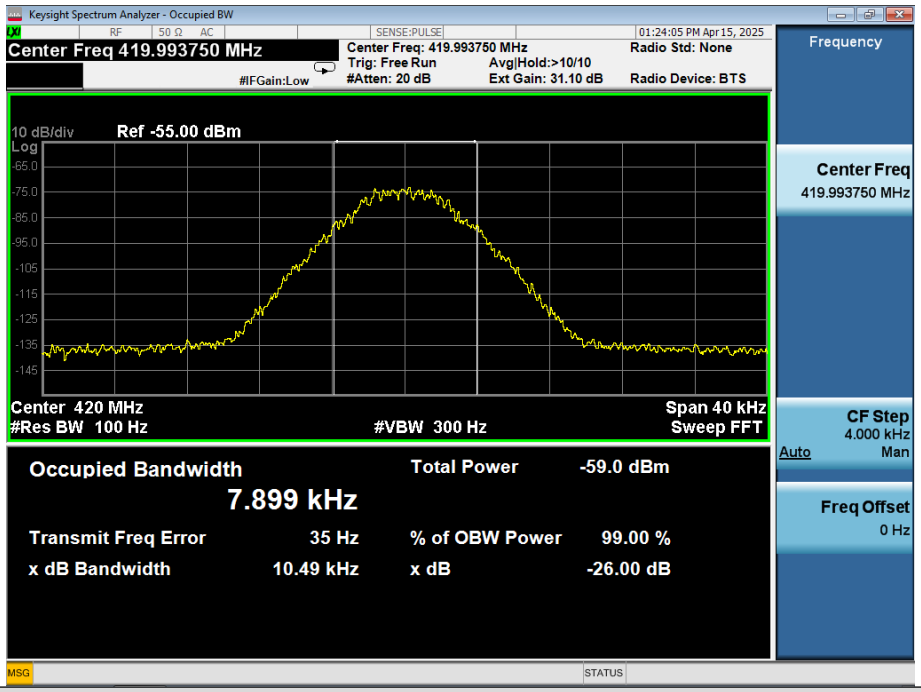
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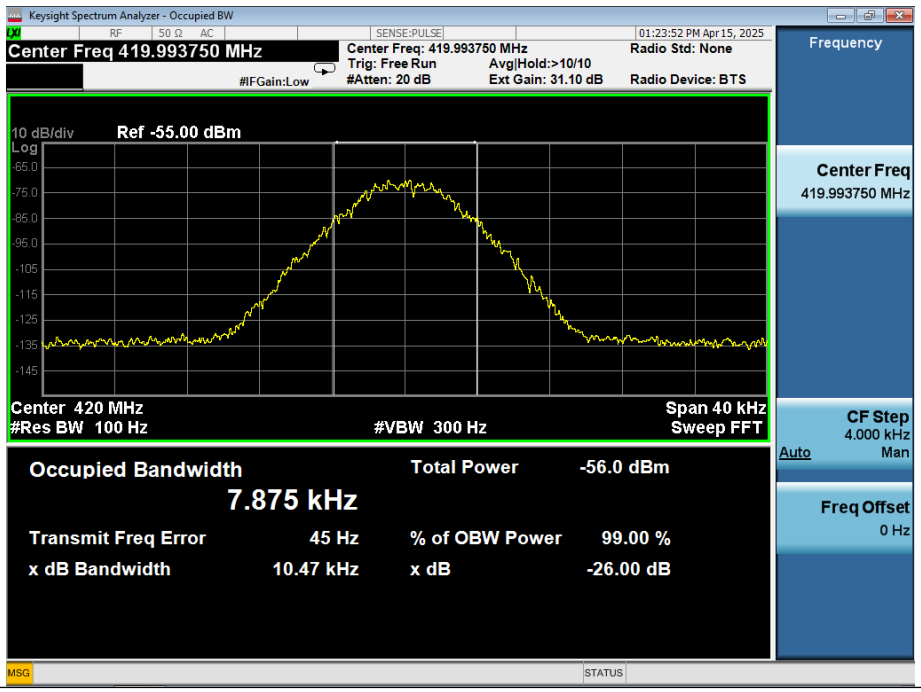
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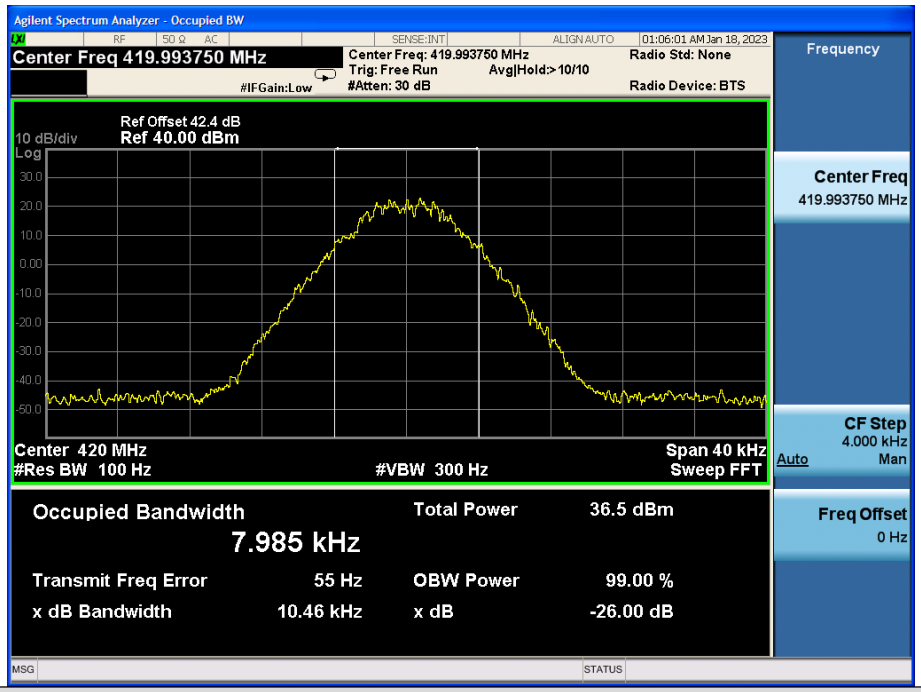
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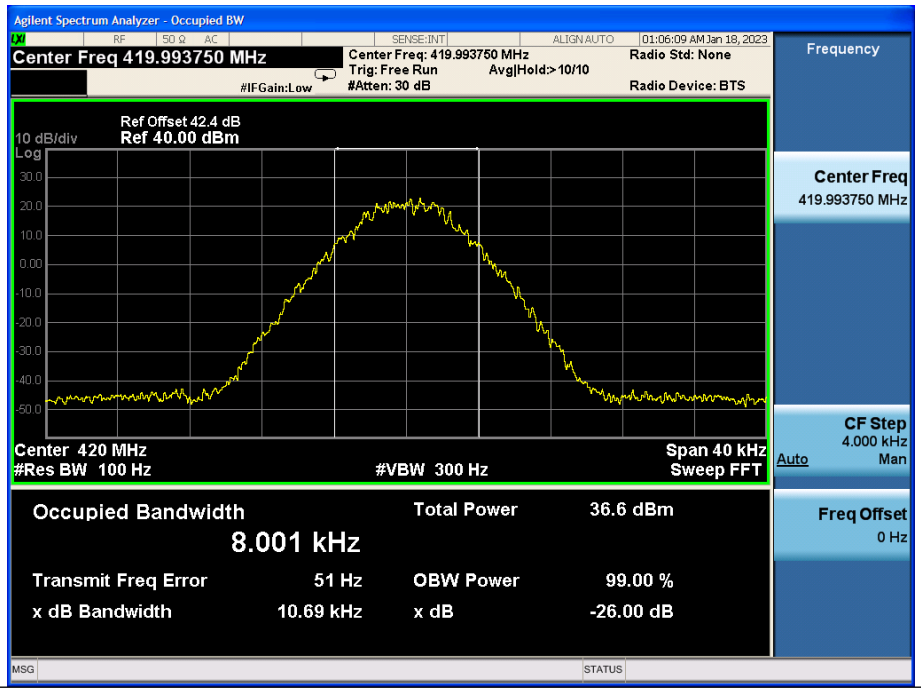
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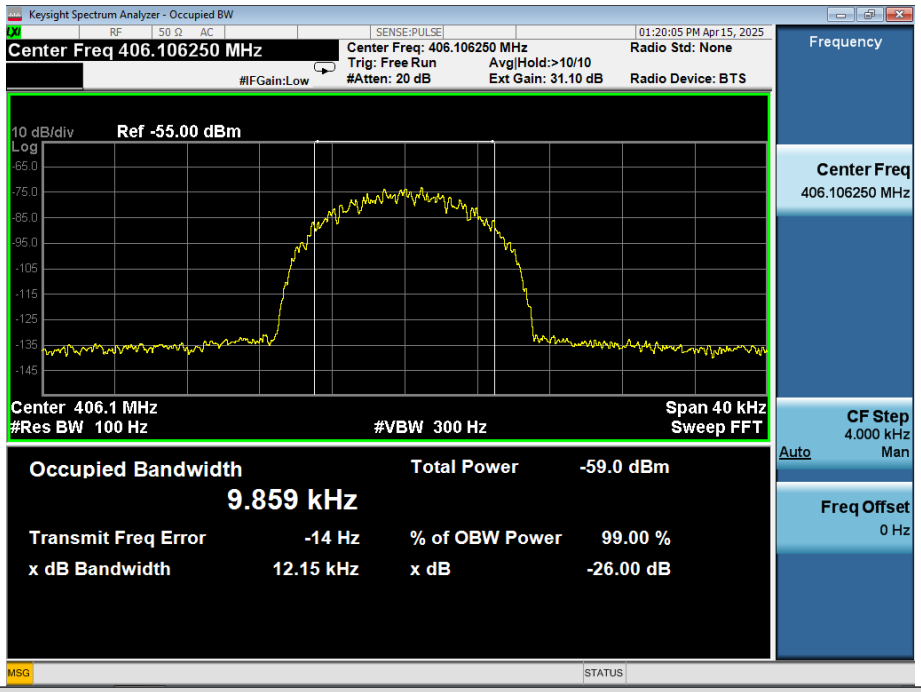
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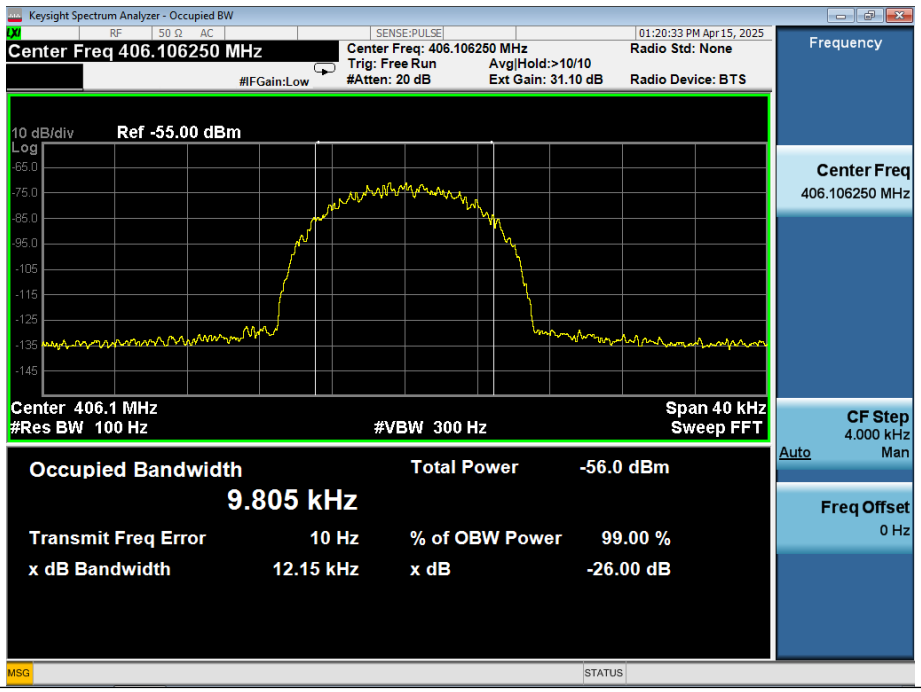
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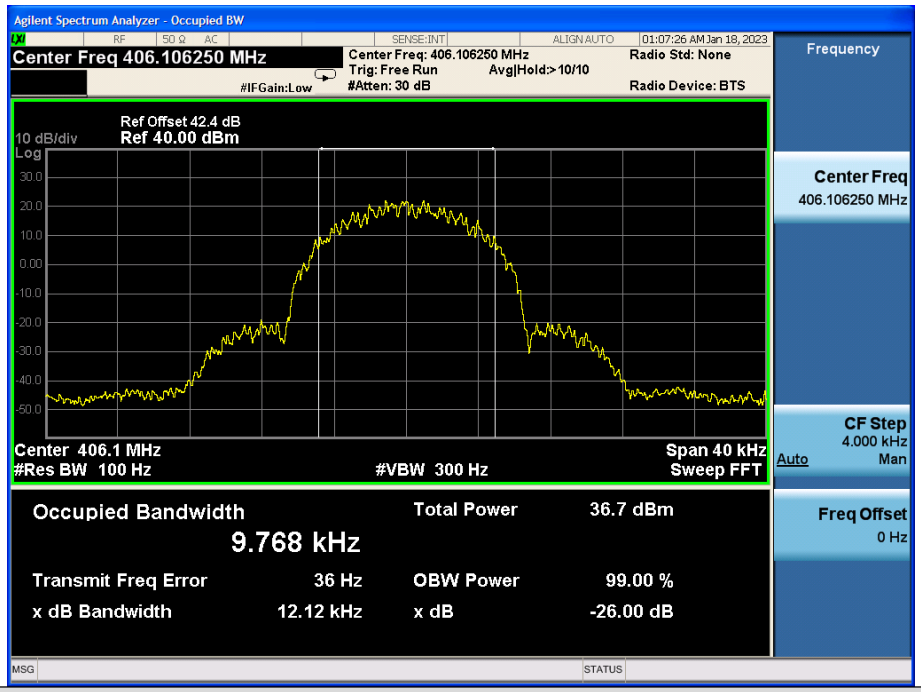
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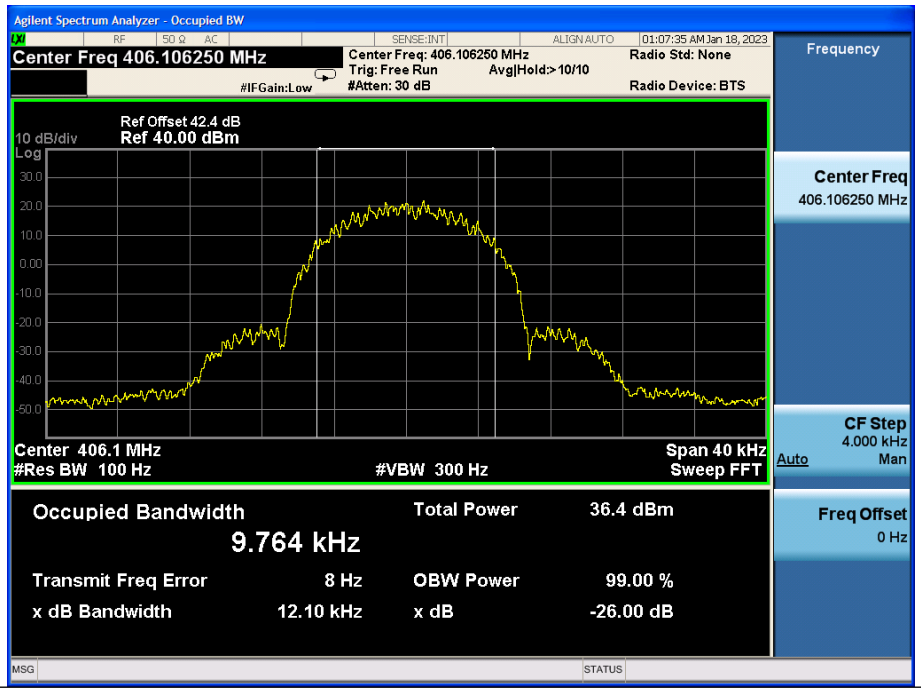
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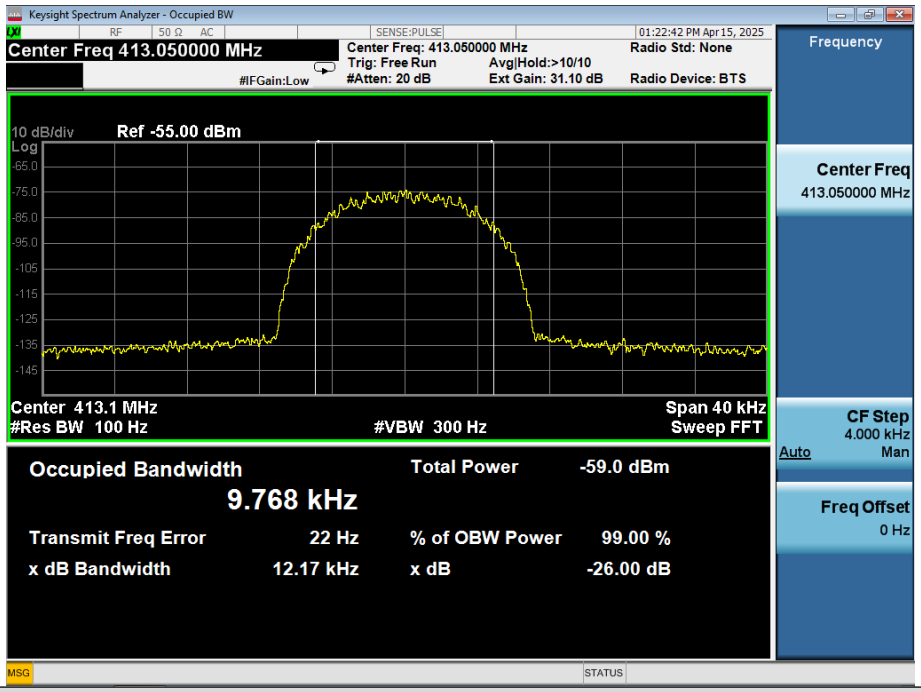
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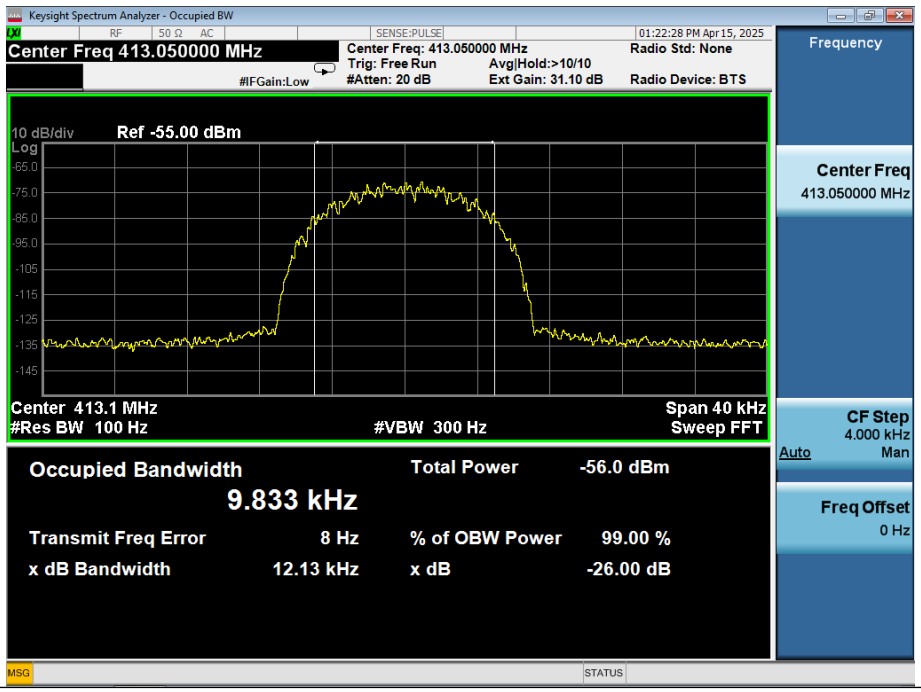
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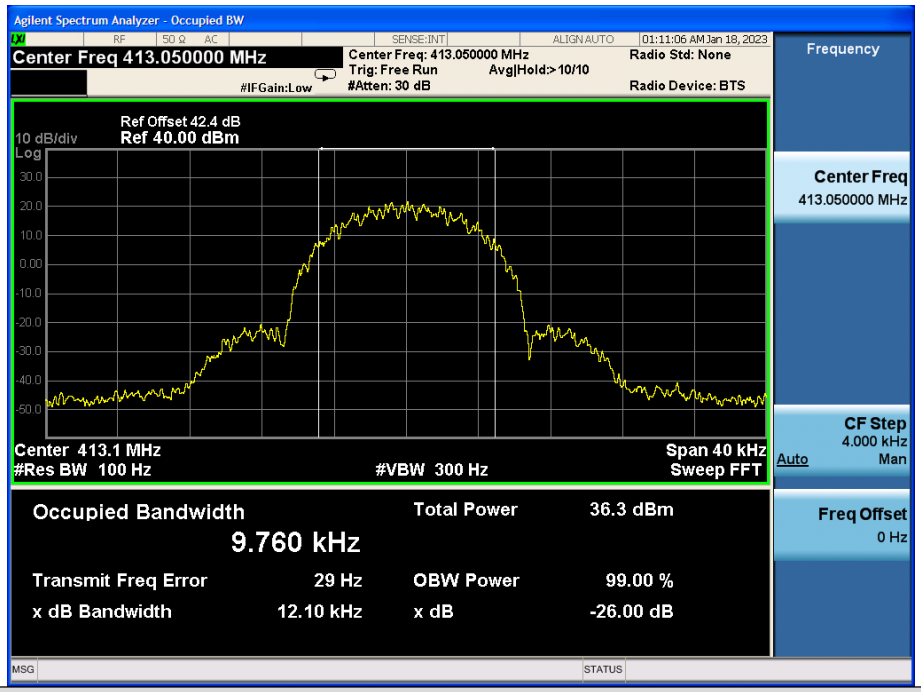
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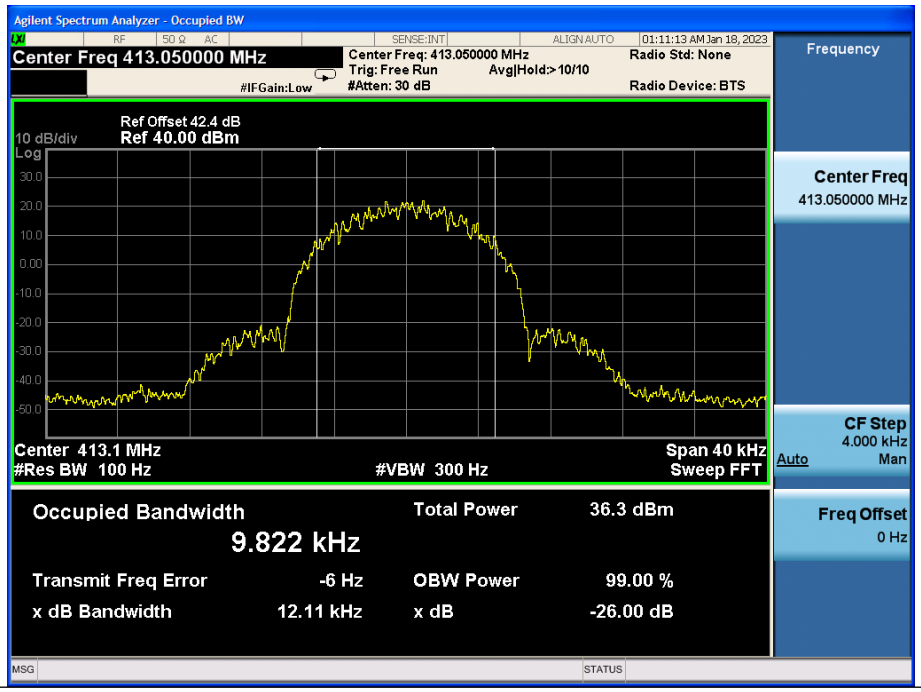
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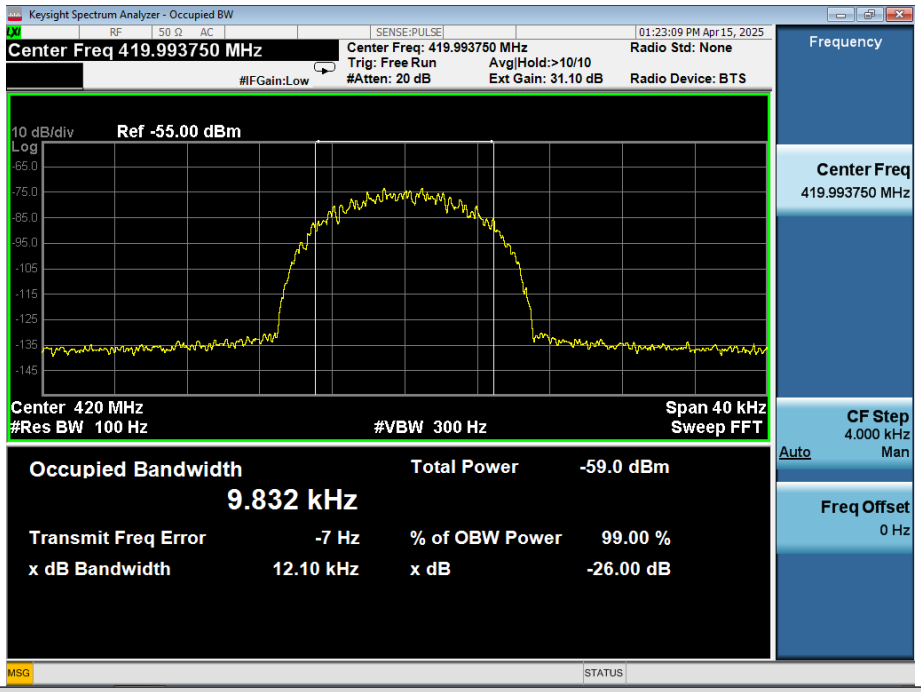
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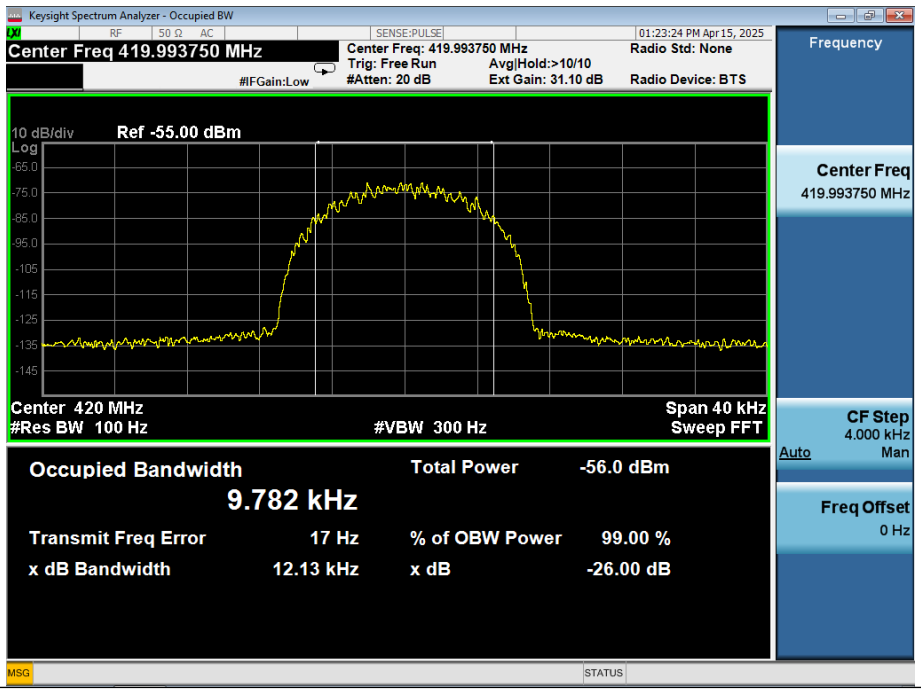
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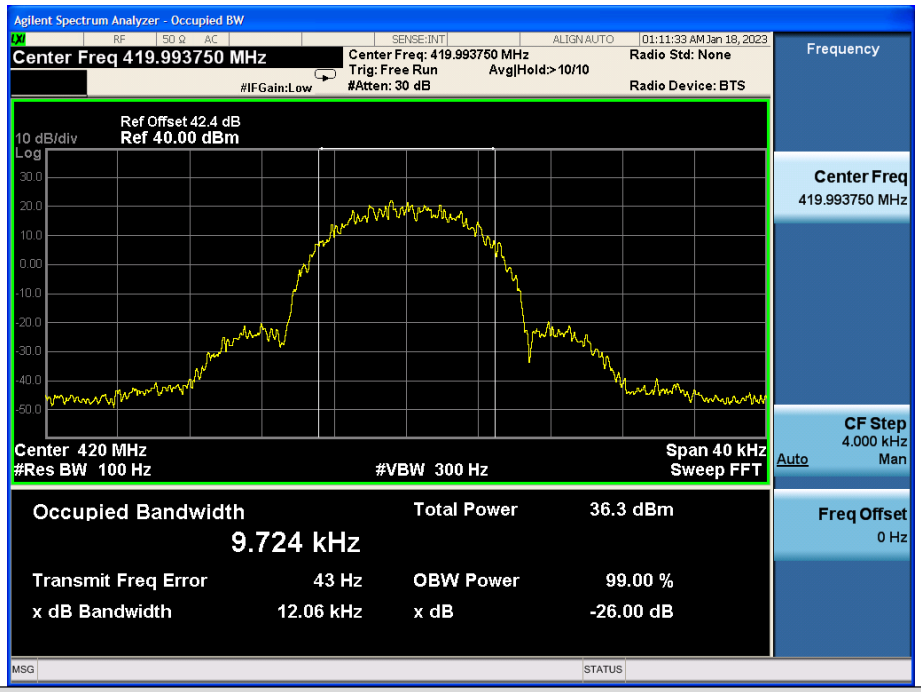
DL_H-DQPSK_HCH_Input_3dB above AGC



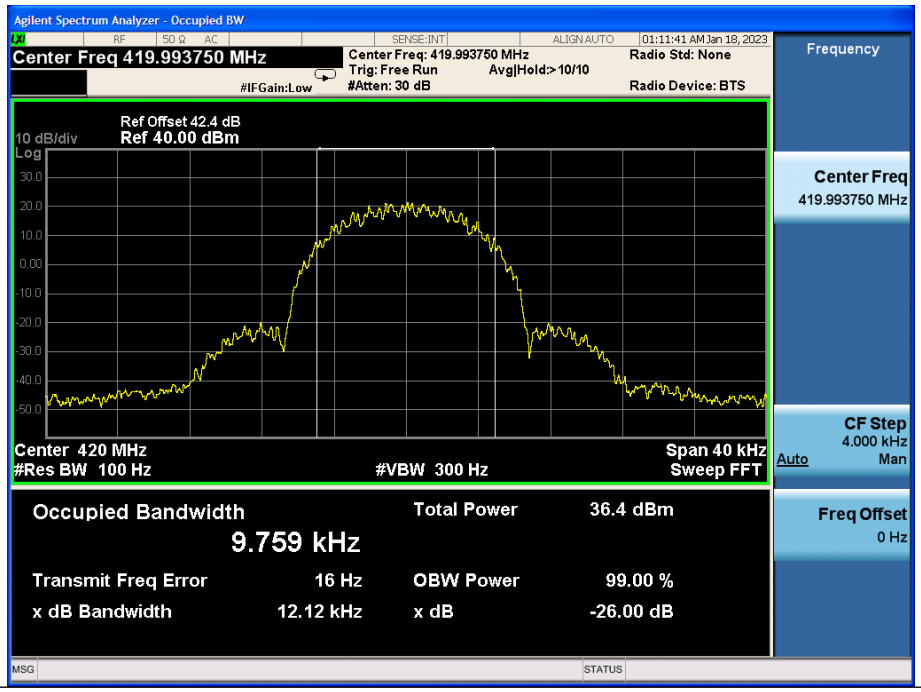
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DL_H-DQPSK_HCH_Output_Pre-AGC



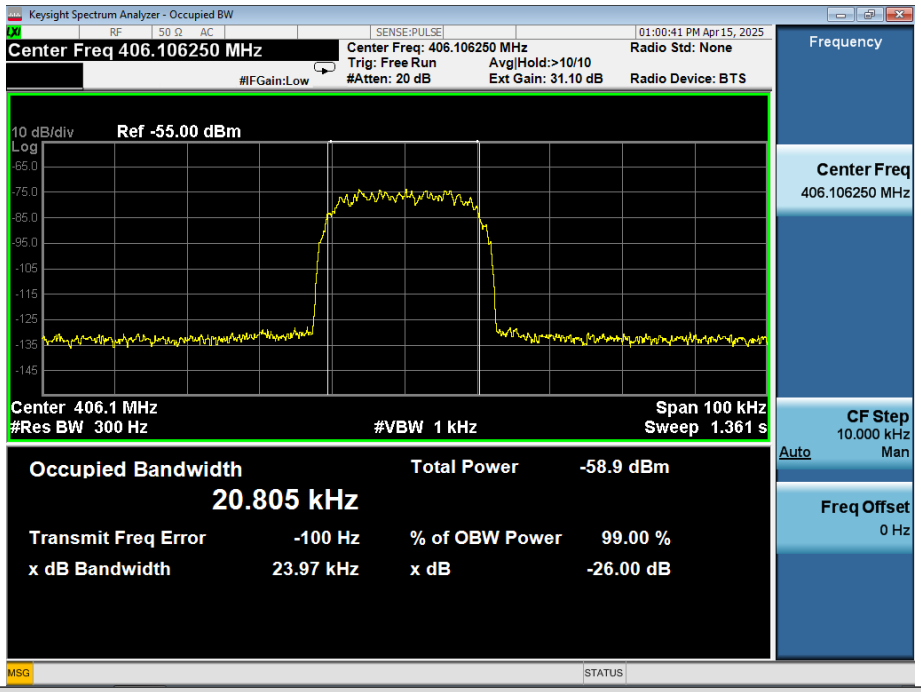
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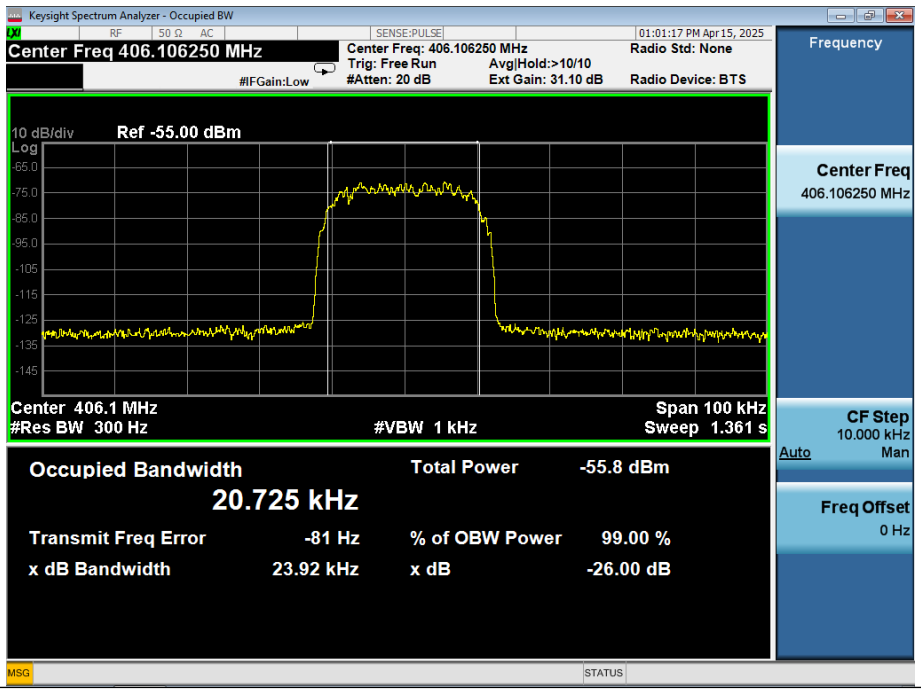
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DL_TETRA_LCH_Input_Pre-AGC



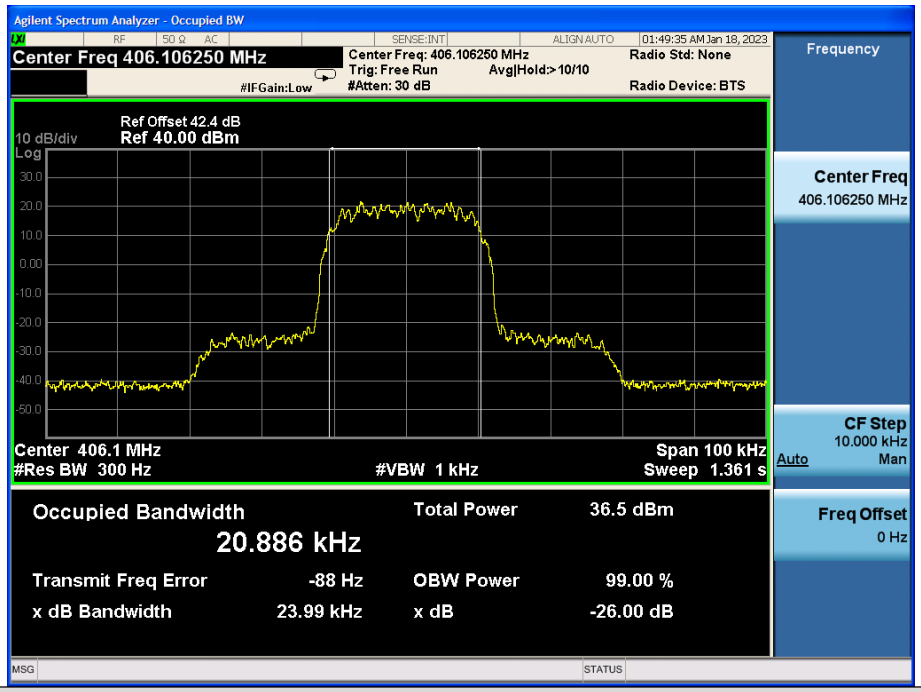
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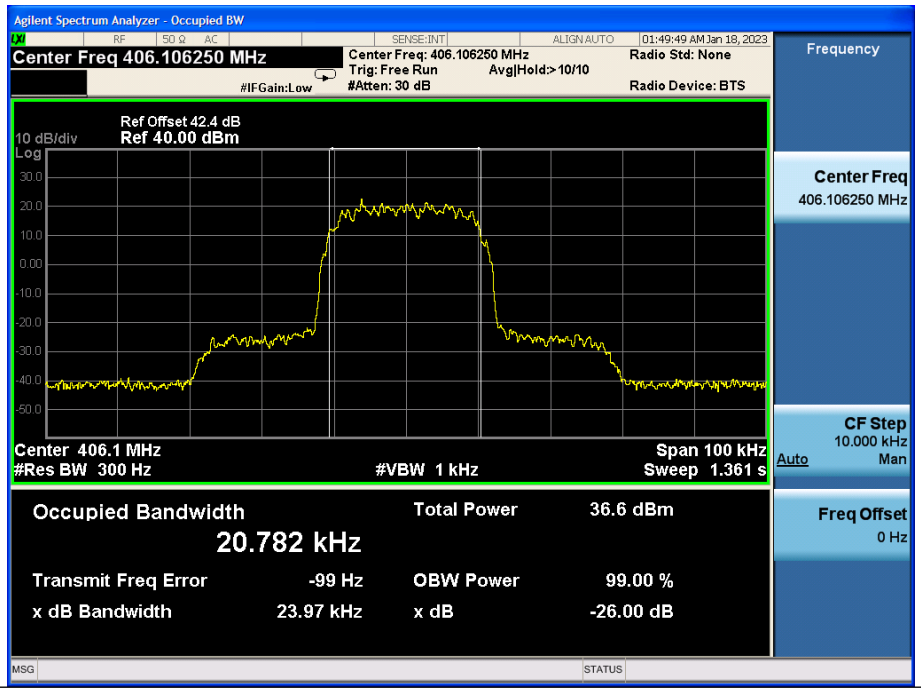
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DL_TETRA_LCH_Output_Pre-AGC



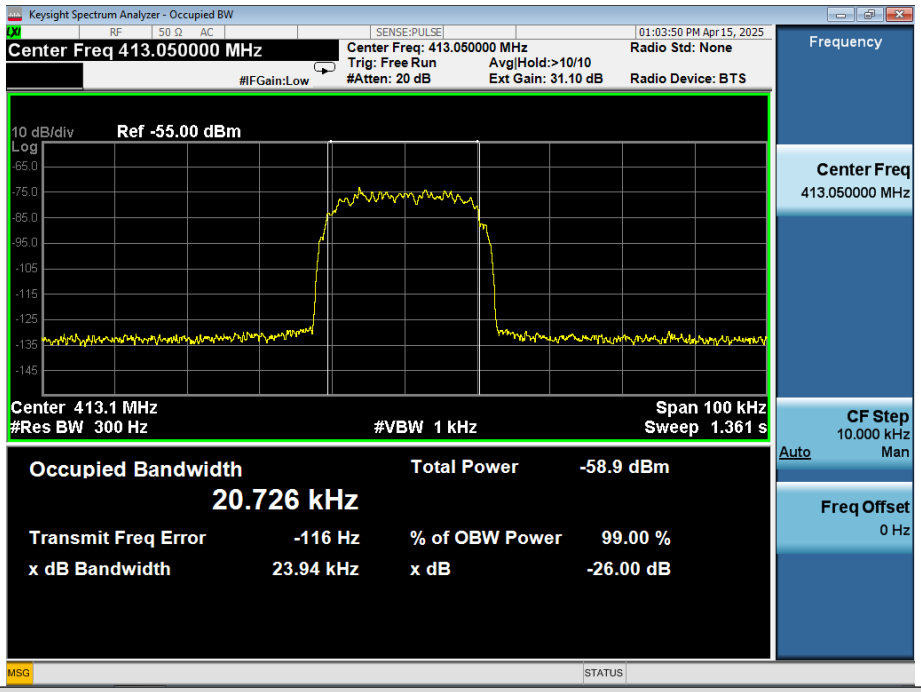
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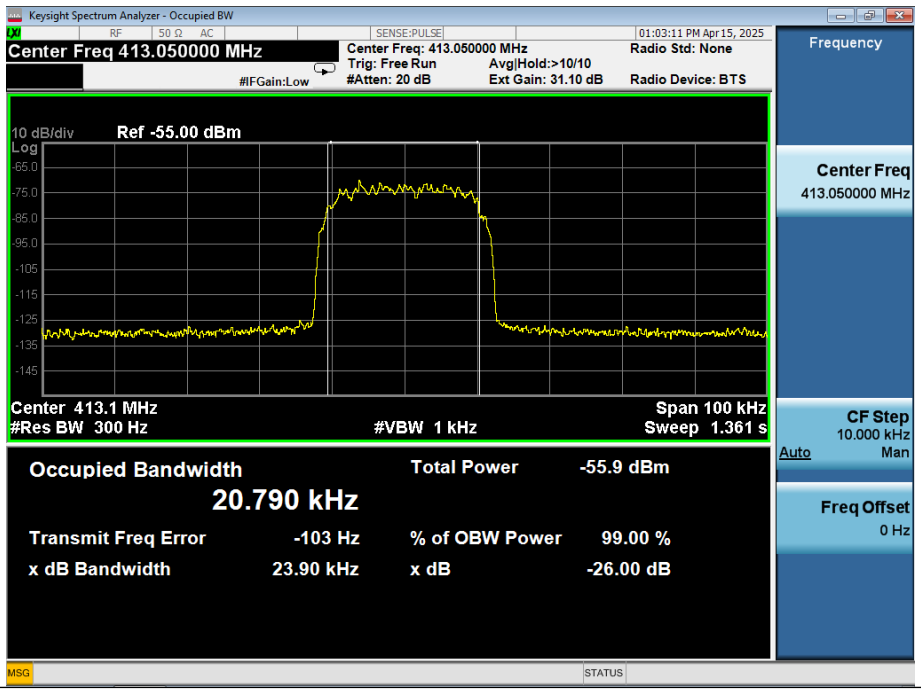
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DL_TETRA_MCH_Input_Pre-AGC



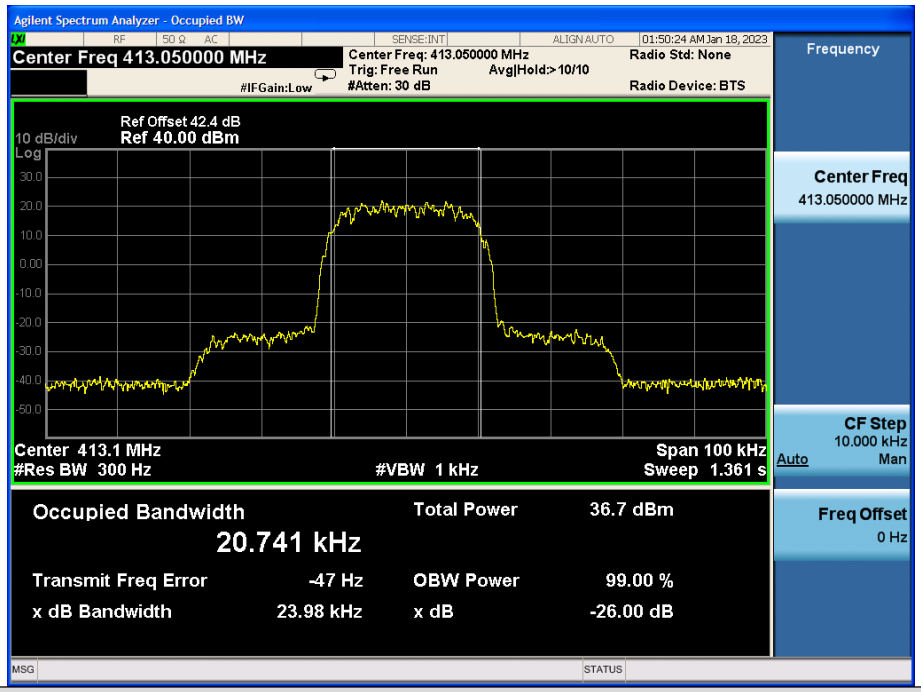
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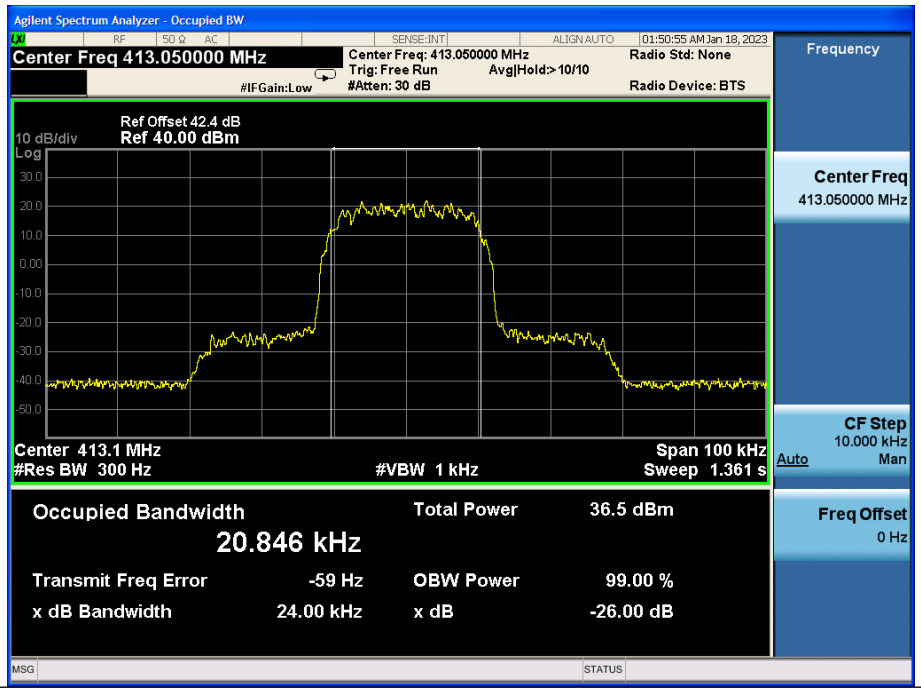
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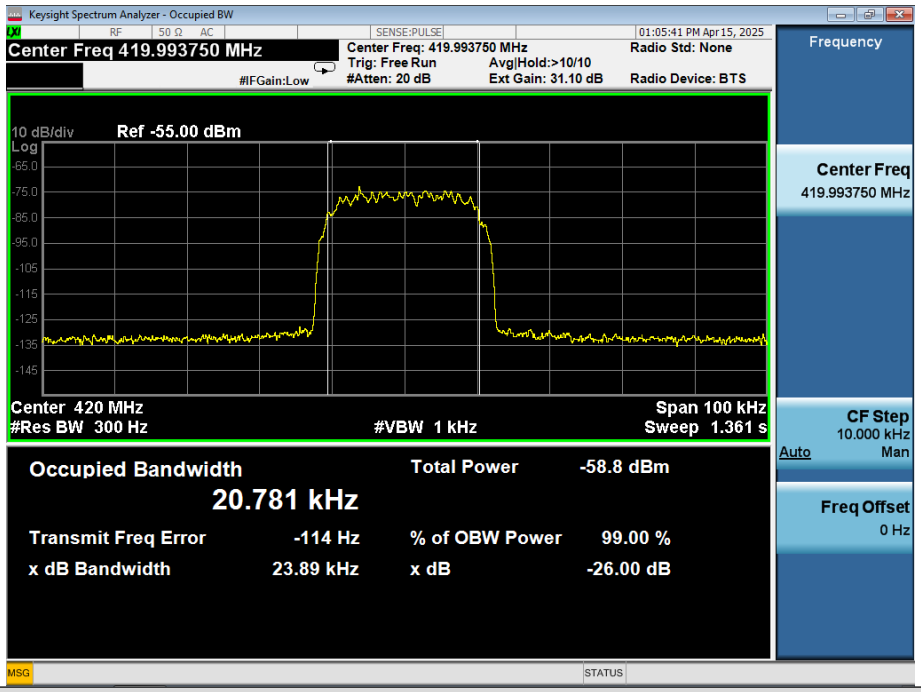
DL_TETRA_MCH_Output_3dB above AGC



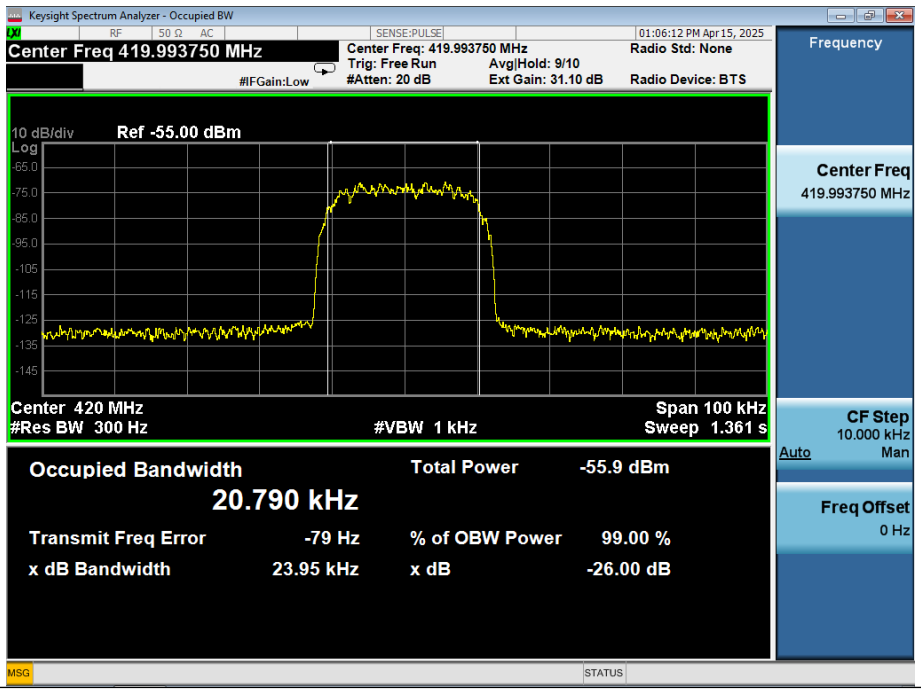
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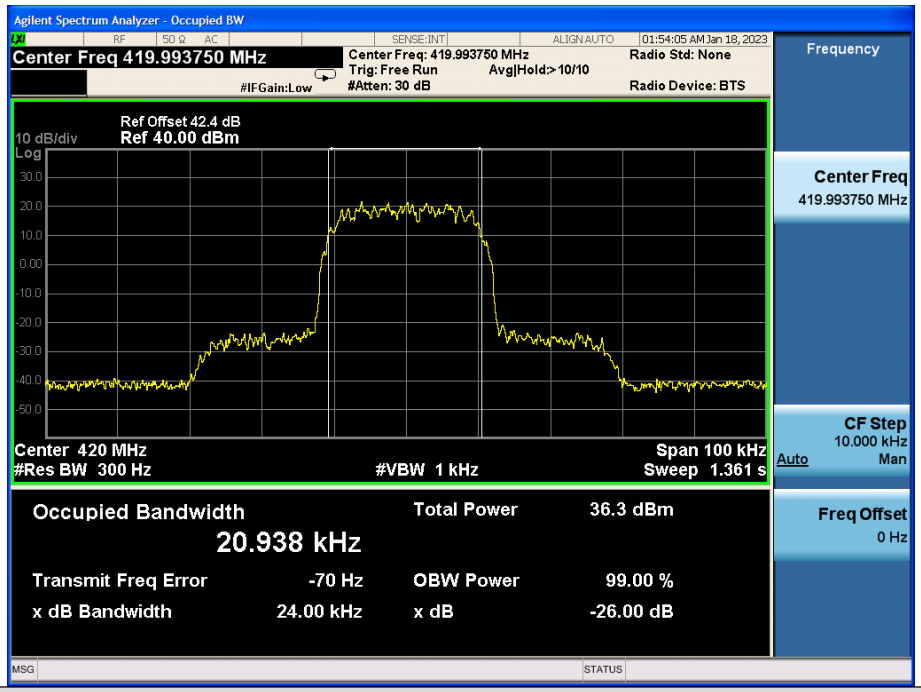
DL_TETRA_HCH_Input_3dB above AGC



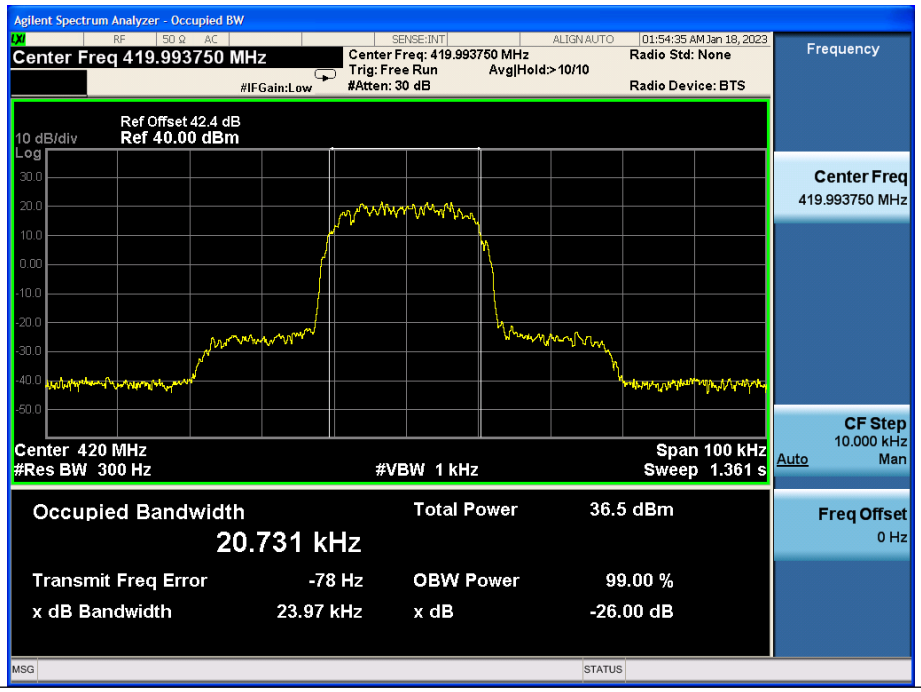
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DL_TETRA_HCH_Output_3dB above AGC



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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	416.0	Pre-AGC	-59	36.65	2.82	5	95.65	PASS
		3dB above AGC	-56	36.81	2.93		/	PASS

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

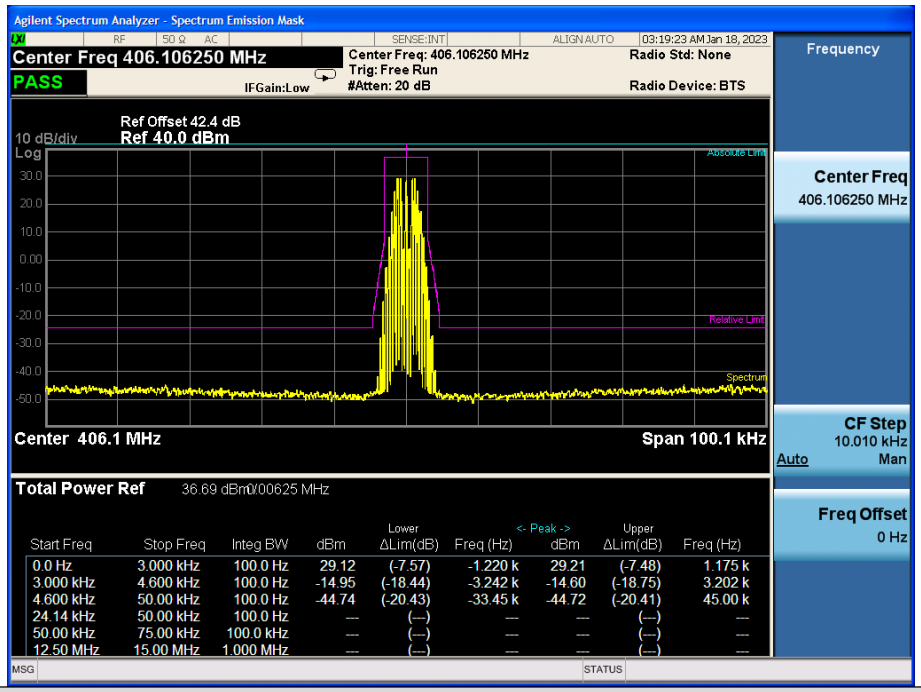
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Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	TETRA	LCH	Pre-AGC	Mask B	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS

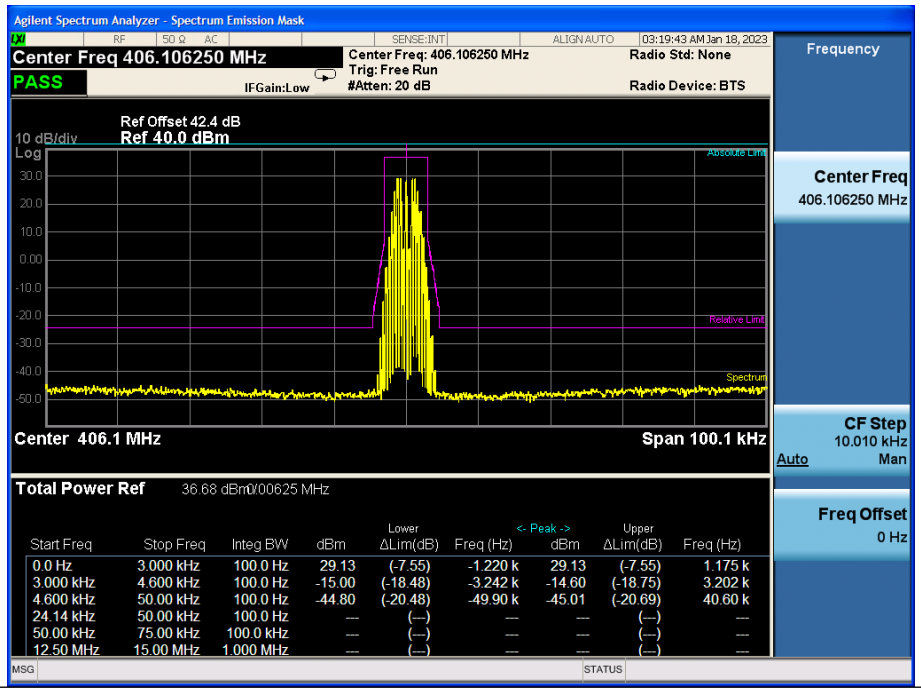
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Emission Masks

DL_FM_LCH_Pre-AGC



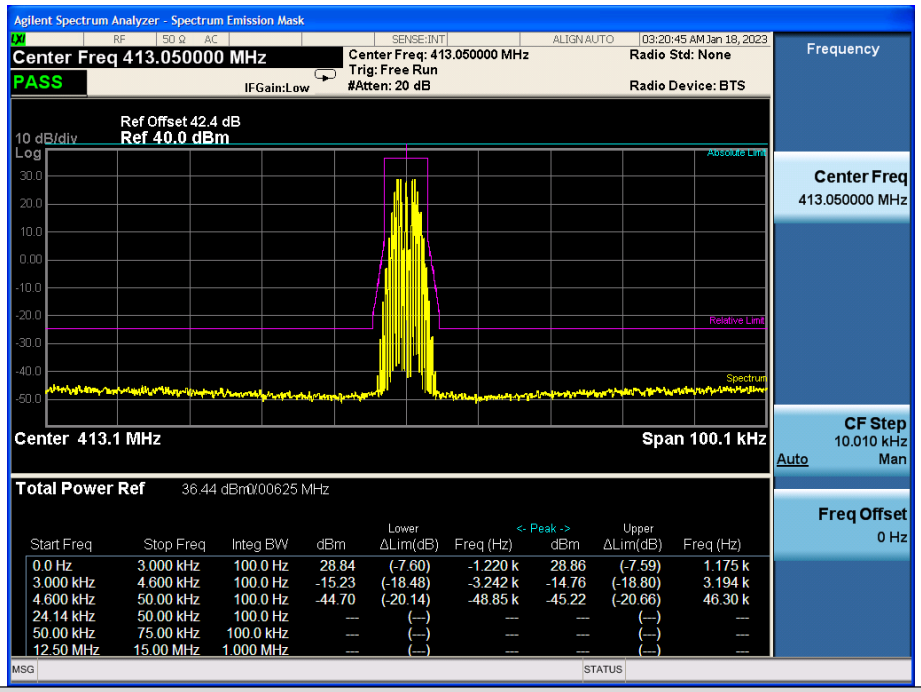
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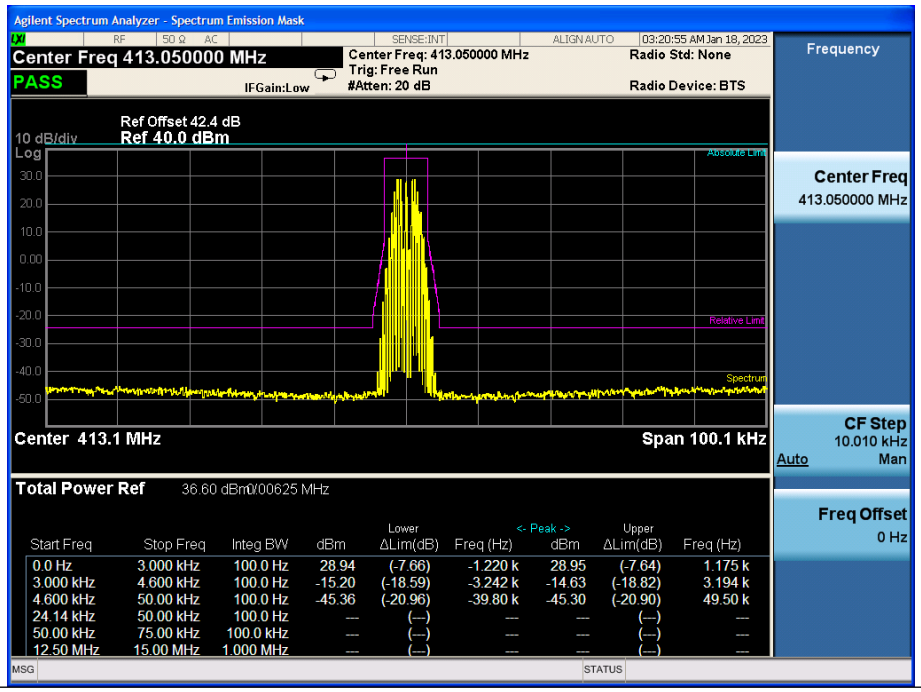
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Emission Masks

DL_FM_MCH_Pre-AGC



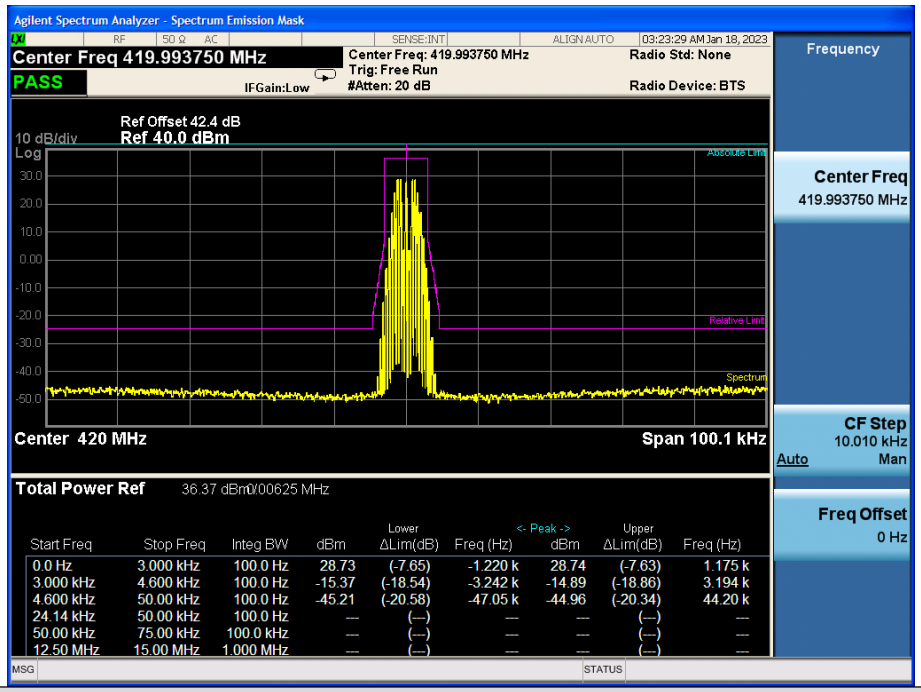
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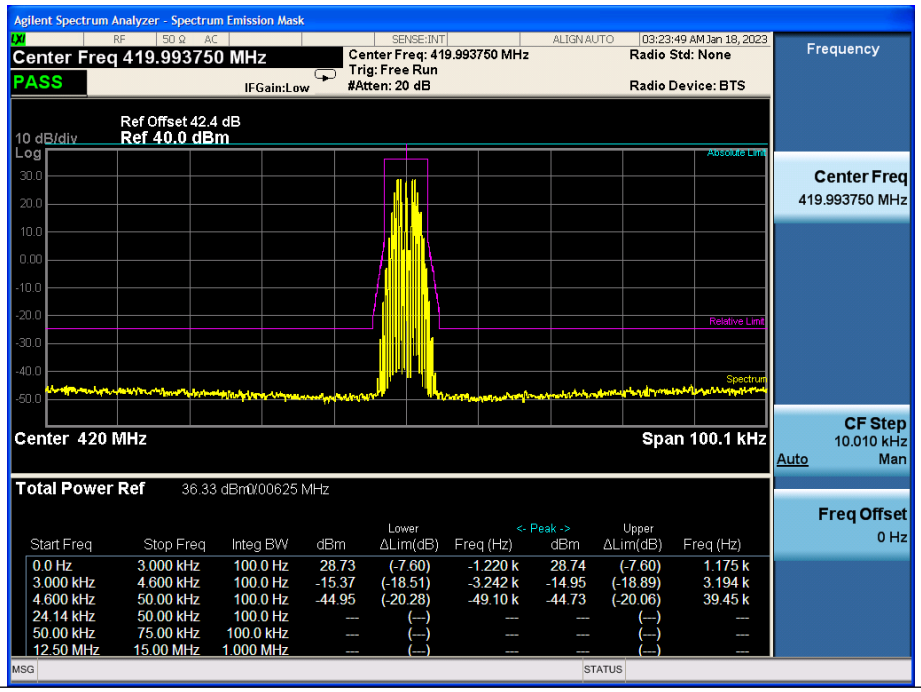
Emission Masks

DL_FM_HCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	3.000 kHz	100.0 Hz	28.73	(-7.65)	-1.220 k	28.74	(-7.63)	1.175 k
3.000 kHz	4.600 kHz	100.0 Hz	-15.37	(-18.54)	-3.242 k	-14.89	(-18.86)	3.194 k
4.600 kHz	50.00 kHz	100.0 Hz	-45.21	(-20.58)	-47.05 k	-44.96	(-20.34)	44.20 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_FM_HCH_3dB above AGC

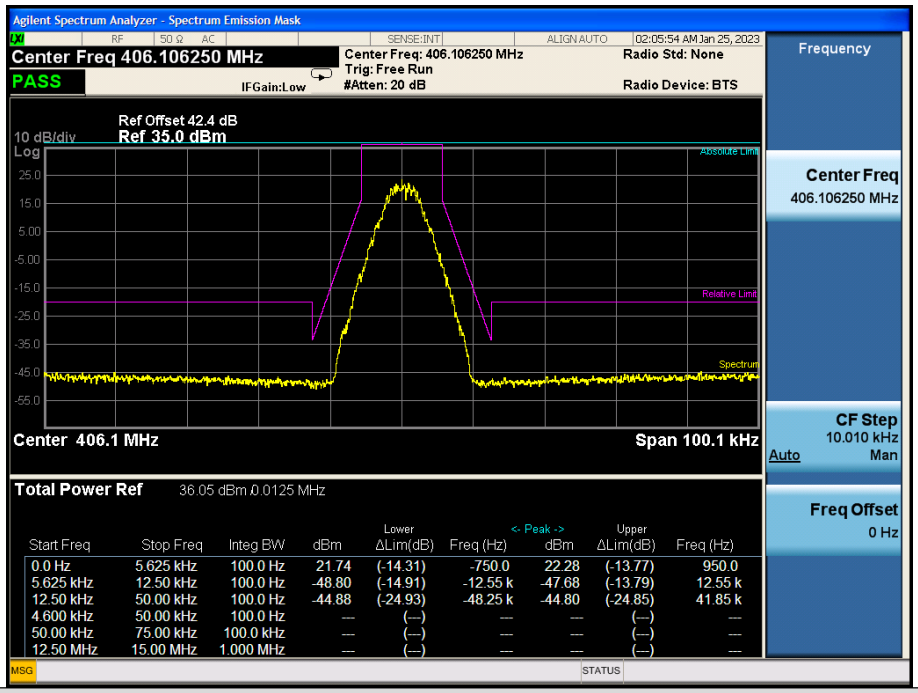


Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	3.000 kHz	100.0 Hz	28.73	(-7.60)	-1.220 k	28.74	(-7.60)	1.175 k
3.000 kHz	4.600 kHz	100.0 Hz	-15.37	(-18.51)	-3.242 k	-14.95	(-18.89)	3.194 k
4.600 kHz	50.00 kHz	100.0 Hz	-44.95	(-20.28)	-49.10 k	-44.73	(-20.06)	39.45 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

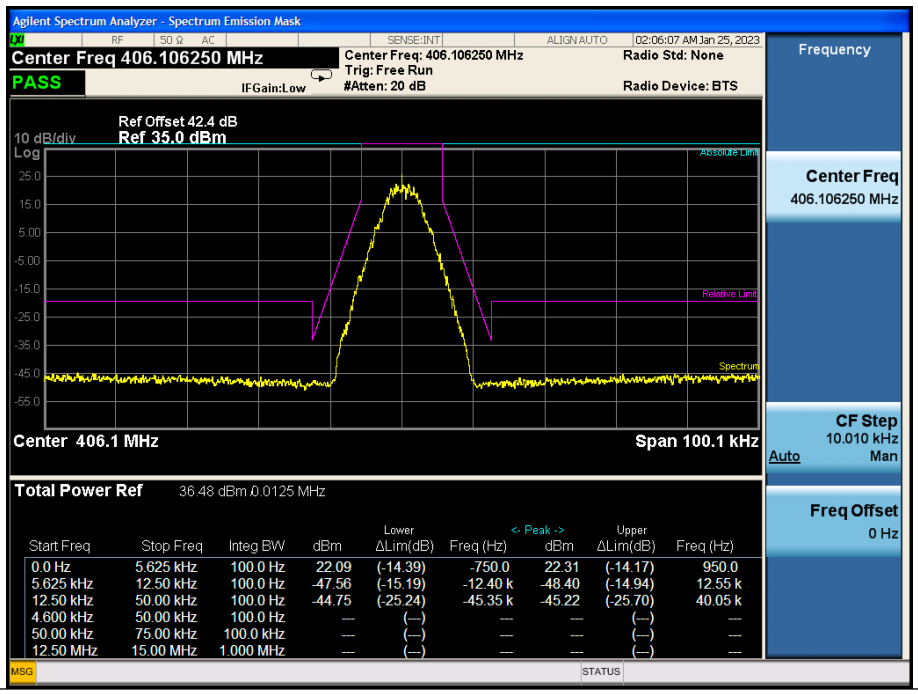
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Emission Masks

DL_DMR_LCH_Pre-AGC



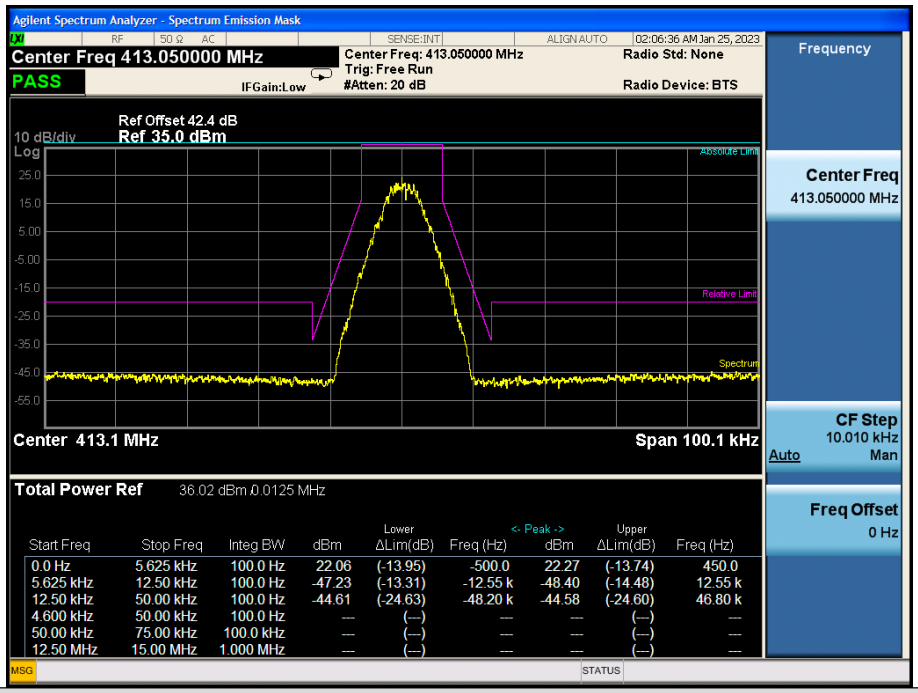
DL_DMR_LCH_3dB above AGC



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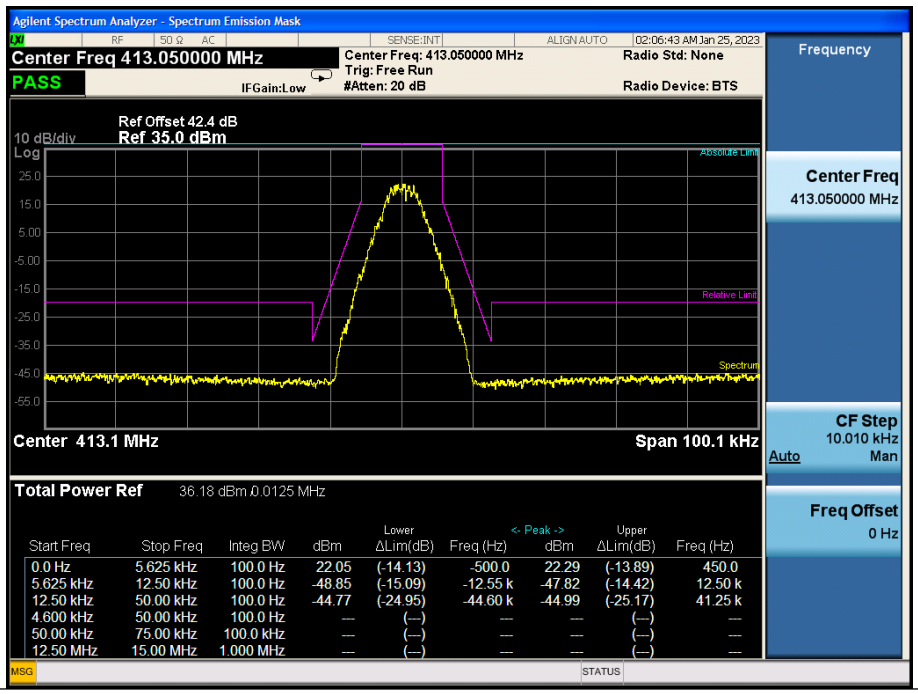
Emission Masks

DL_DMR_MCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	5.625 kHz	100.0 Hz	22.06	(-13.95)	-500.0	22.27	(-13.74)	450.0
5.625 kHz	12.50 kHz	100.0 Hz	-47.23	(-13.31)	-12.55 k	-48.40	(-14.48)	12.55 k
12.50 kHz	50.00 kHz	100.0 Hz	-44.61	(-24.63)	-48.20 k	-44.58	(-24.60)	46.80 k
4.600 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_DMR_MCH_3dB above AGC

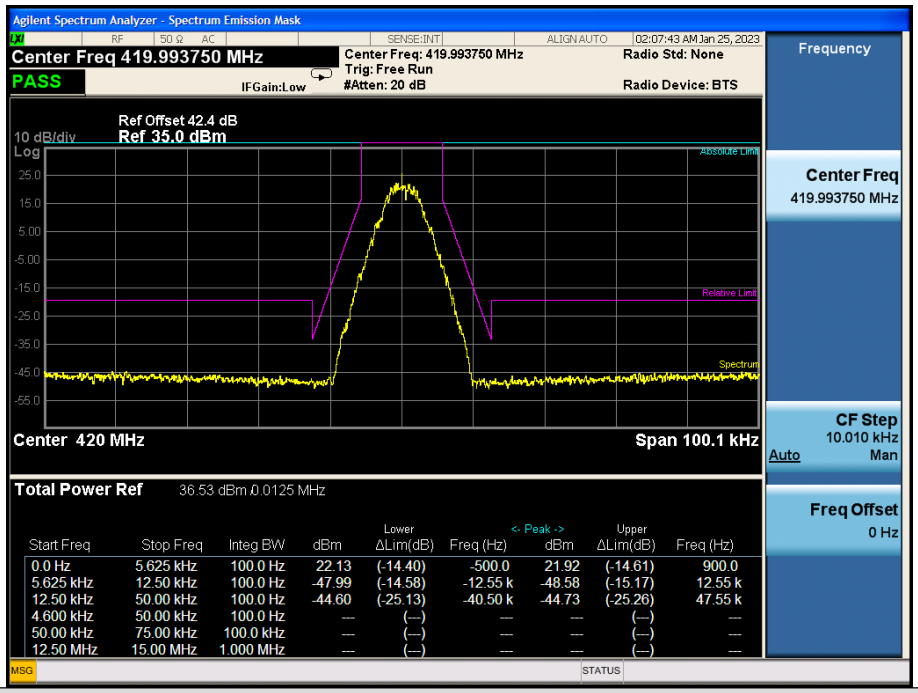


Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	5.625 kHz	100.0 Hz	22.05	(-14.13)	-500.0	22.29	(-13.89)	450.0
5.625 kHz	12.50 kHz	100.0 Hz	-48.85	(-15.09)	-12.55 k	-47.82	(-14.42)	12.50 k
12.50 kHz	50.00 kHz	100.0 Hz	-44.77	(-24.95)	-44.60 k	-44.99	(-25.17)	41.25 k
4.600 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

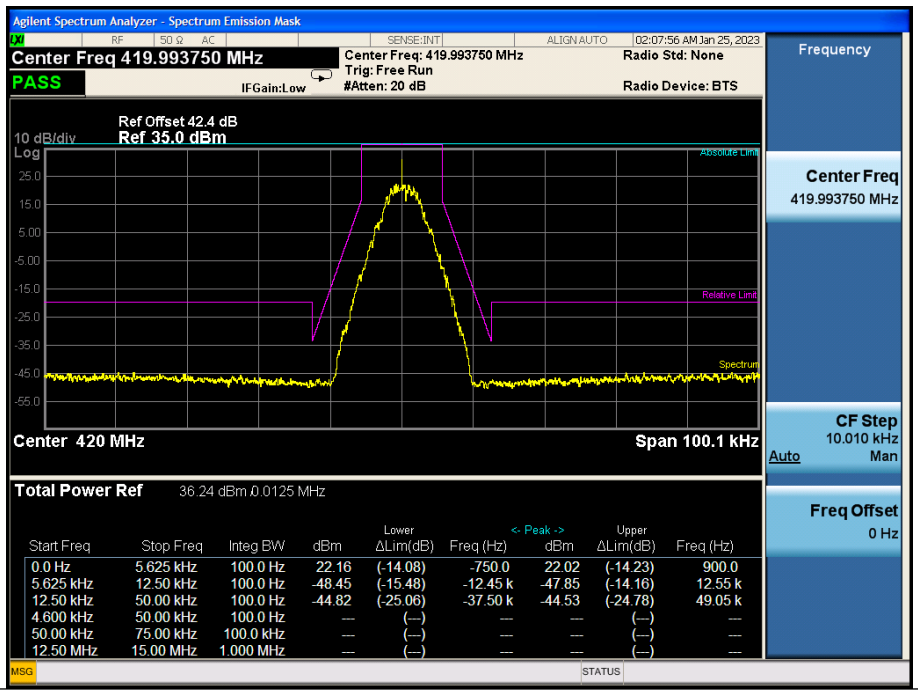
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Emission Masks

DL_DMR_HCH_Pre-AGC



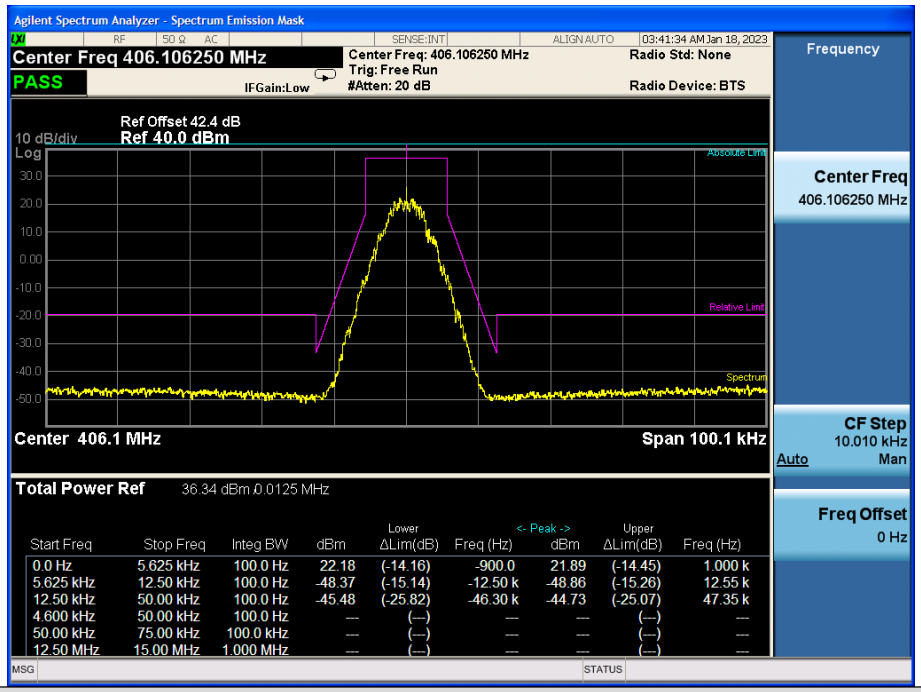
DL_DMR_HCH_3dB above AGC



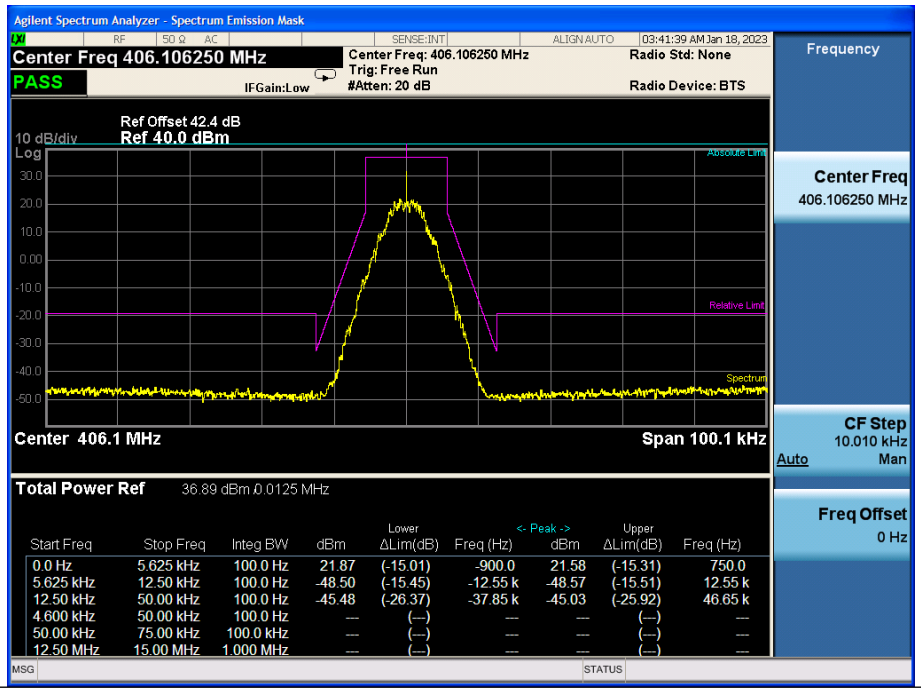
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Emission Masks

DL_C4FM_LCH_Pre-AGC



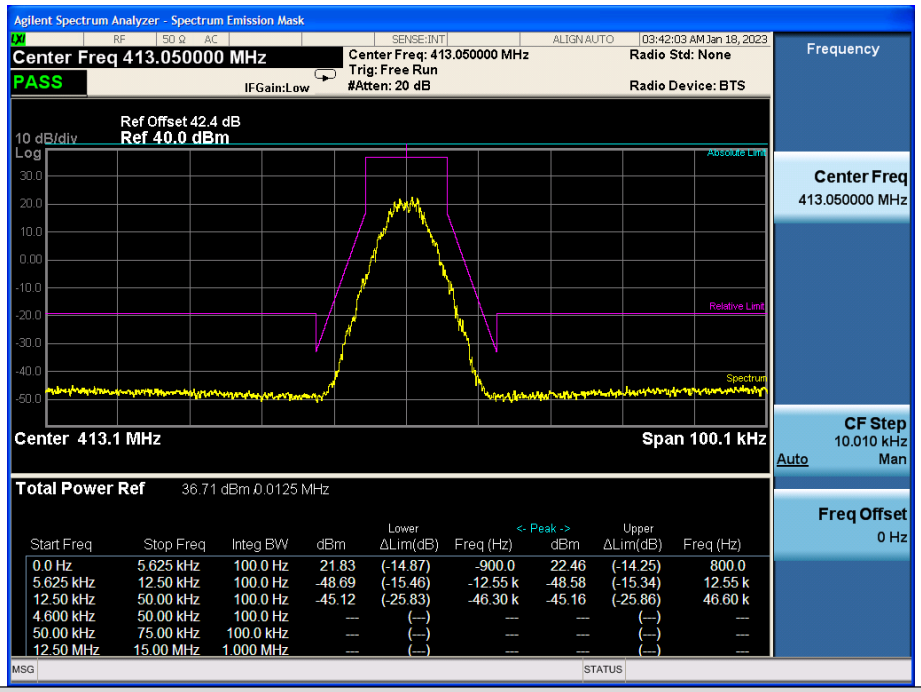
DL_C4FM_LCH_3dB above AGC



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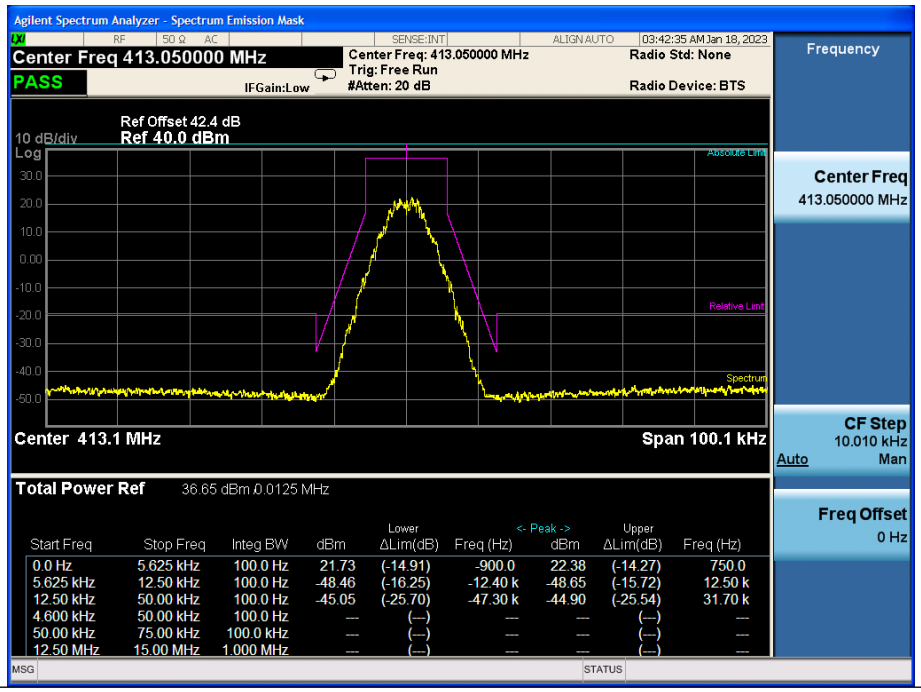
Emission Masks

DL_C4FM_MCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	5.625 kHz	100.0 Hz	21.83	(-14.87)	-900.0	22.46	(-14.25)	800.0
5.625 kHz	12.50 kHz	100.0 Hz	-48.69	(-15.46)	-12.55 k	-48.58	(-15.34)	12.55 k
12.50 kHz	50.00 kHz	100.0 Hz	-45.12	(-25.83)	-46.30 k	-45.16	(-25.86)	46.60 k
4.600 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_C4FM_MCH_3dB above AGC

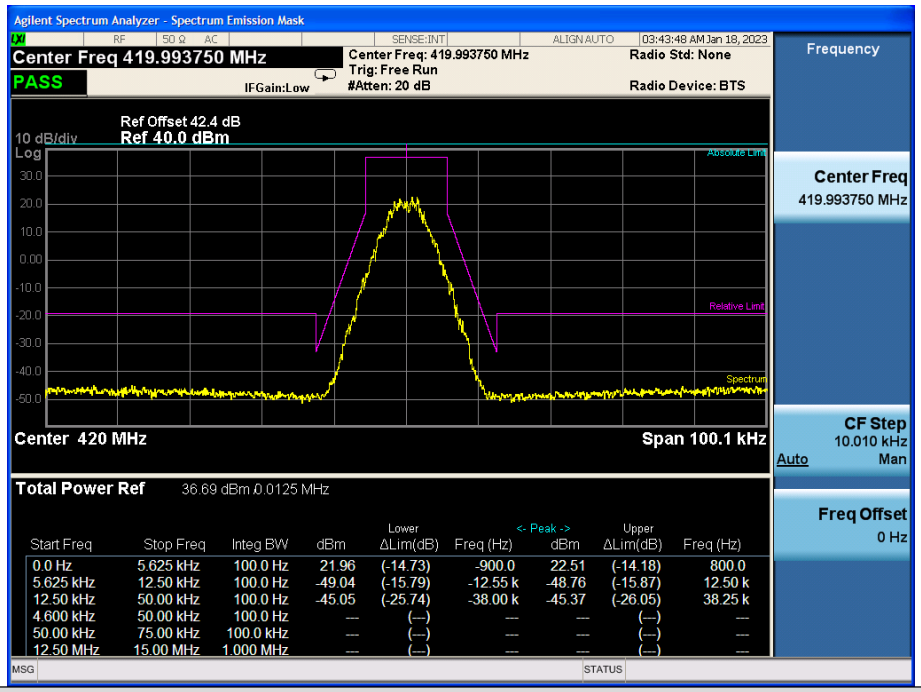


Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	5.625 kHz	100.0 Hz	21.73	(-14.91)	-900.0	22.38	(-14.27)	750.0
5.625 kHz	12.50 kHz	100.0 Hz	-48.46	(-16.25)	-12.40 k	-48.65	(-15.72)	12.50 k
12.50 kHz	50.00 kHz	100.0 Hz	-45.05	(-25.70)	-47.30 k	-44.90	(-25.54)	31.70 k
4.600 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

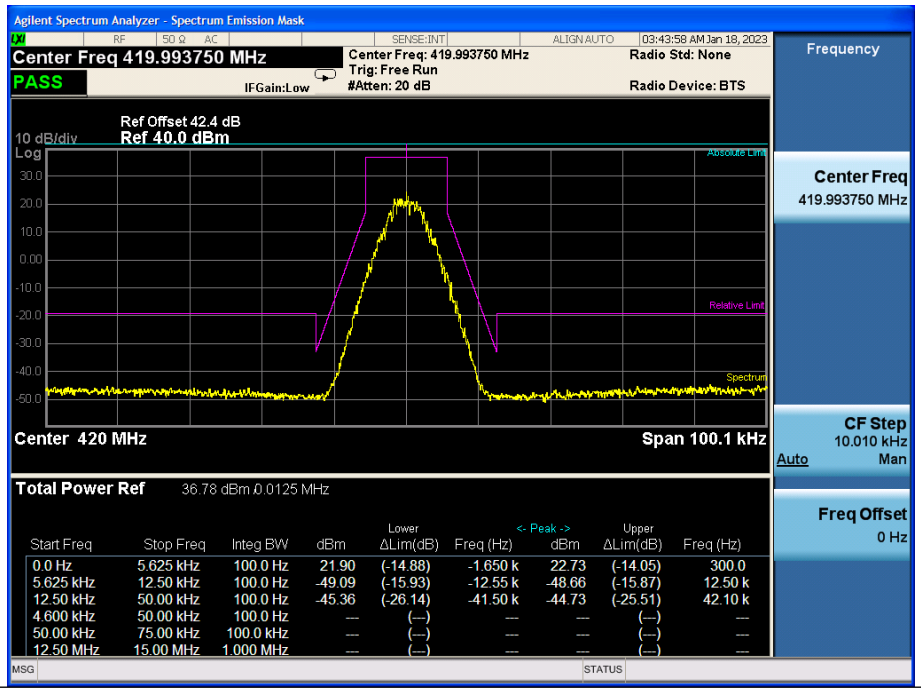
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Emission Masks

DL_C4FM_HCH_Pre-AGC



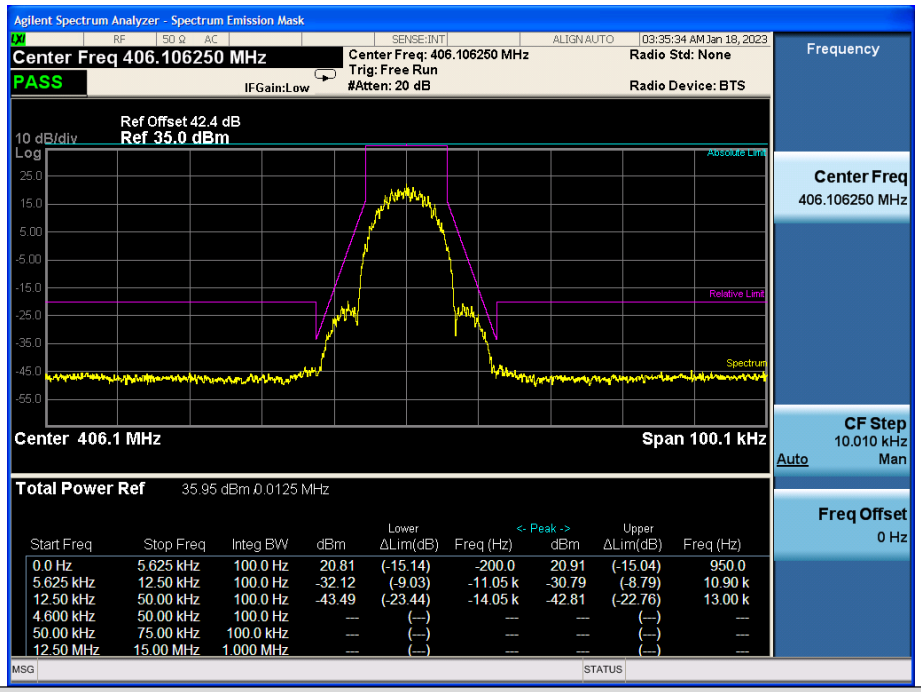
DL_C4FM_HCH_3dB above AGC



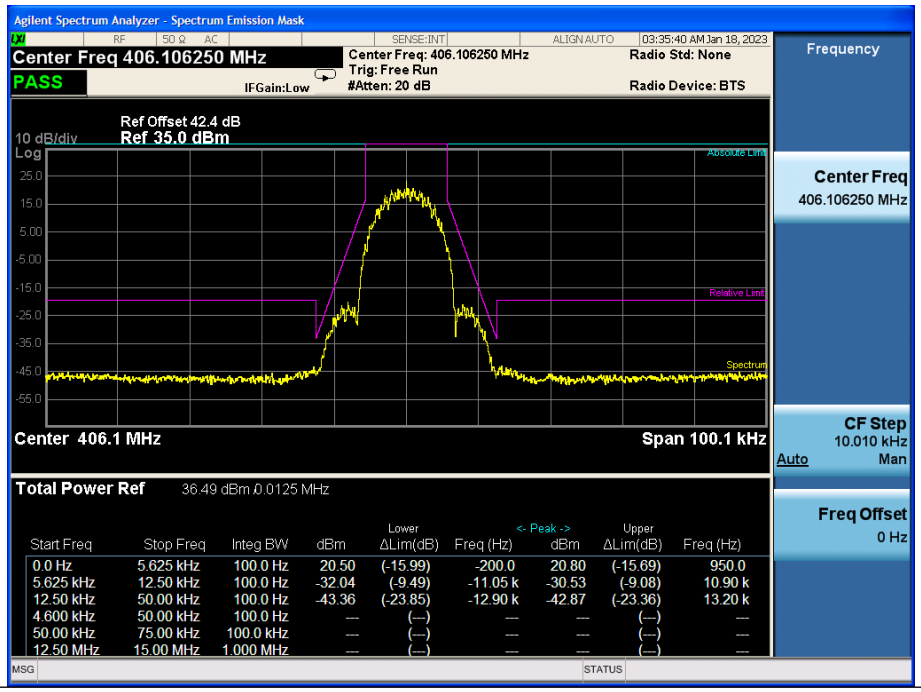
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Emission Masks

DL_H-DQPSK_LCH_Pre-AGC



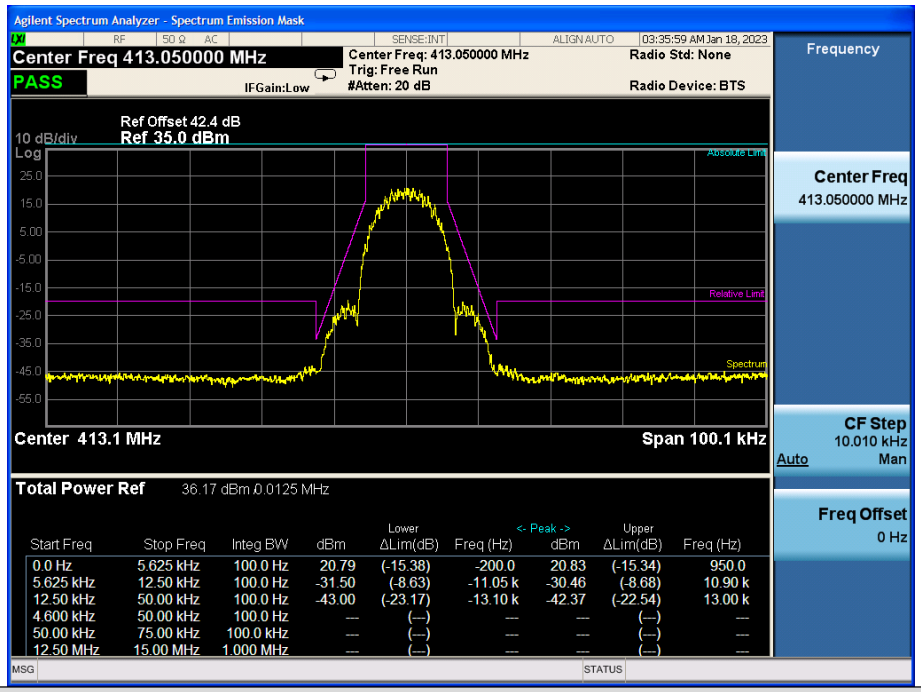
DL_H-DQPSK_LCH_3dB above AGC



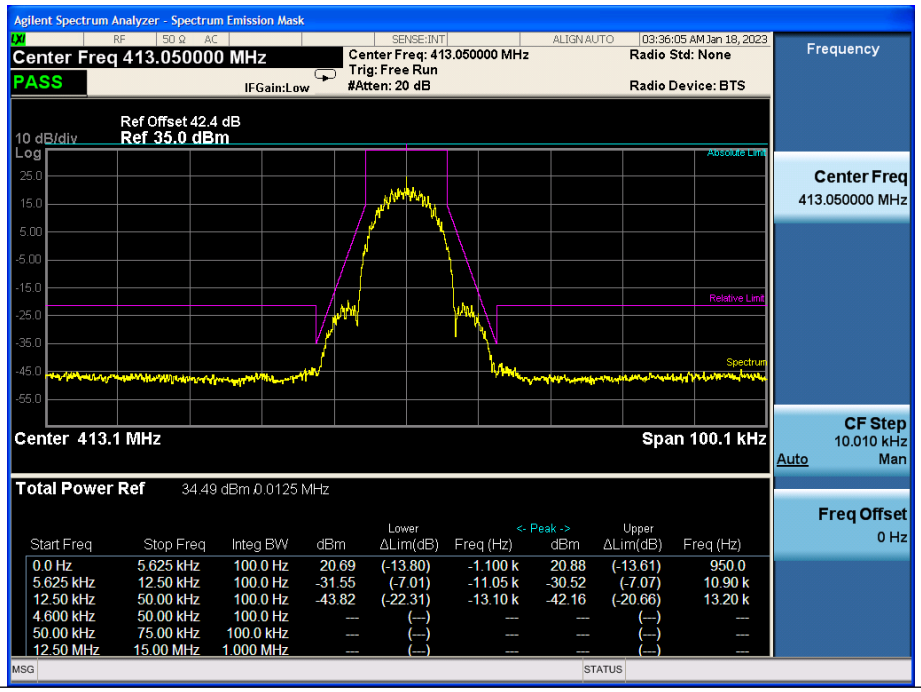
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Emission Masks

DL_H-DQPSK_MCH_Pre-AGC



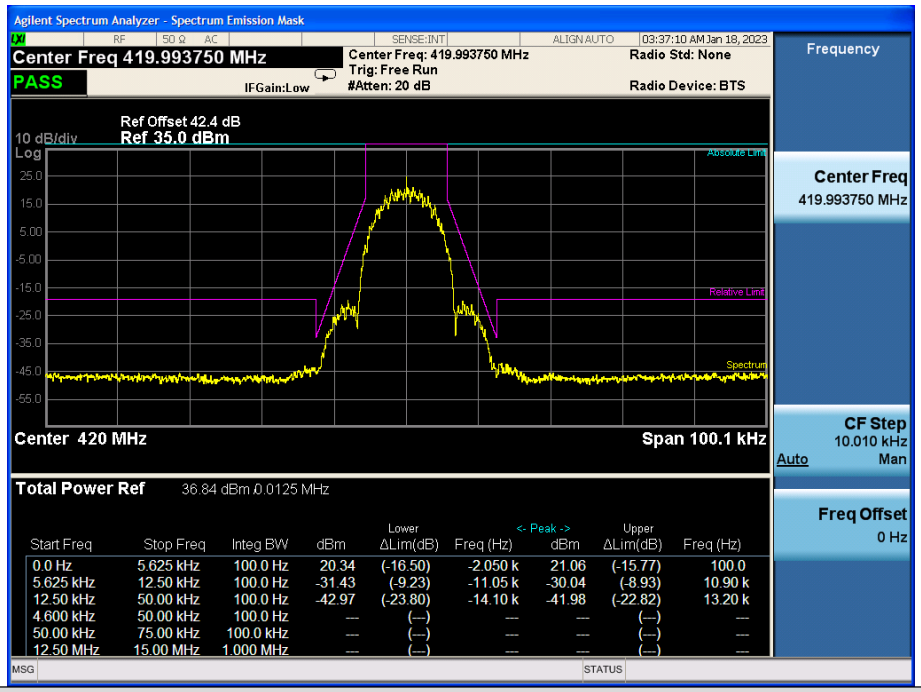
DL_H-DQPSK_MCH_3dB above AGC



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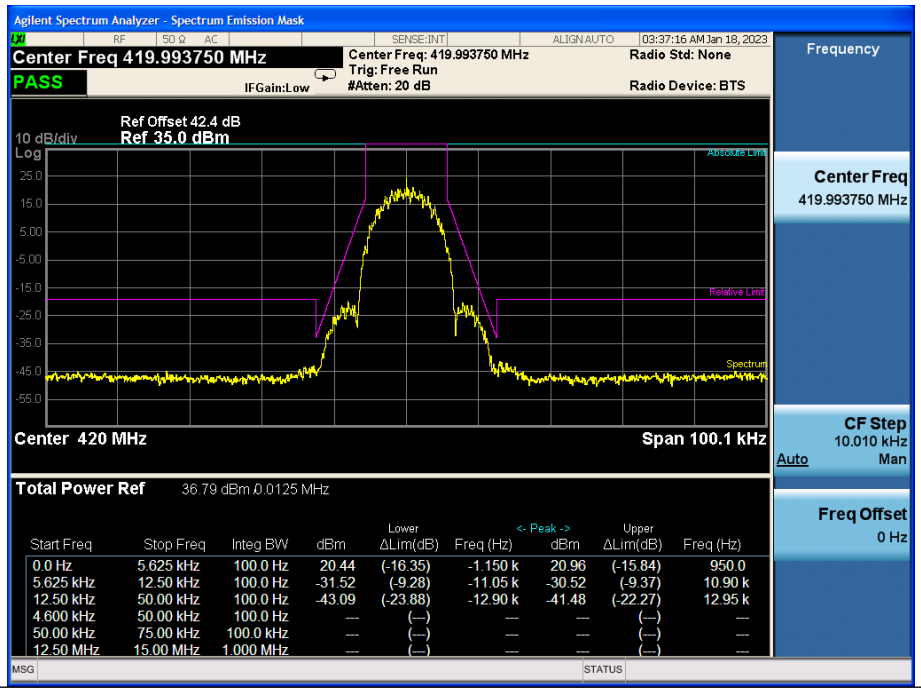
Emission Masks

DL_H-DQPSK_HCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	5.625 kHz	100.0 Hz	20.34	(-16.50)	-2.050 k	21.06	(-15.77)	100.0
5.625 kHz	12.50 kHz	100.0 Hz	-31.43	(-9.23)	-11.05 k	-30.04	(-8.93)	10.90 k
12.50 kHz	50.00 kHz	100.0 Hz	-42.97	(-23.80)	-14.10 k	-41.98	(-22.82)	13.20 k
4.600 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_H-DQPSK_HCH_3dB above AGC

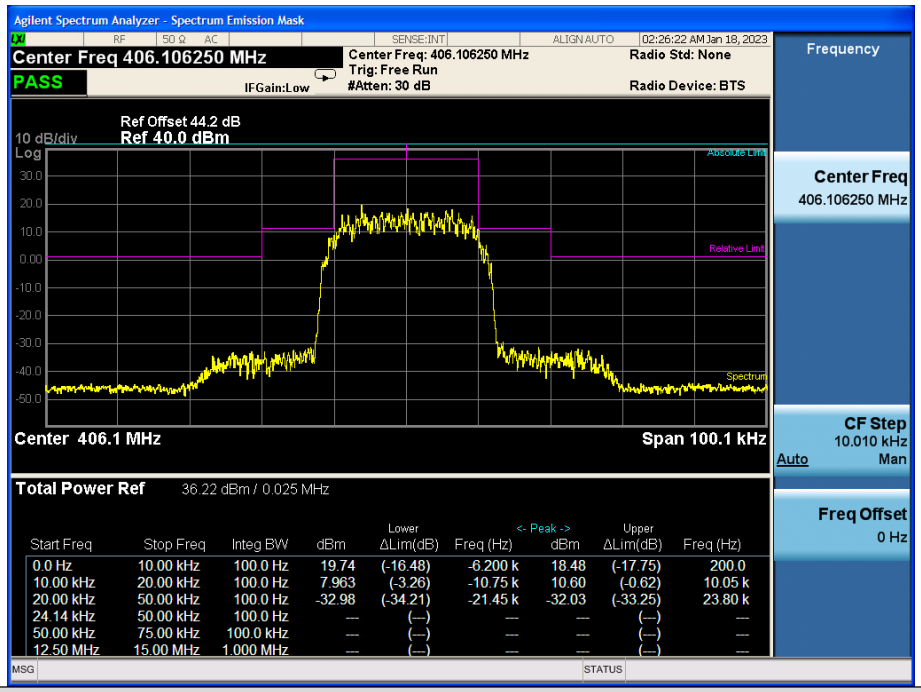


Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	5.625 kHz	100.0 Hz	20.44	(-16.35)	-1.150 k	20.96	(-15.84)	950.0
5.625 kHz	12.50 kHz	100.0 Hz	-31.52	(-9.28)	-11.05 k	-30.52	(-9.37)	10.90 k
12.50 kHz	50.00 kHz	100.0 Hz	-43.09	(-23.88)	-12.90 k	-41.48	(-22.27)	12.95 k
4.600 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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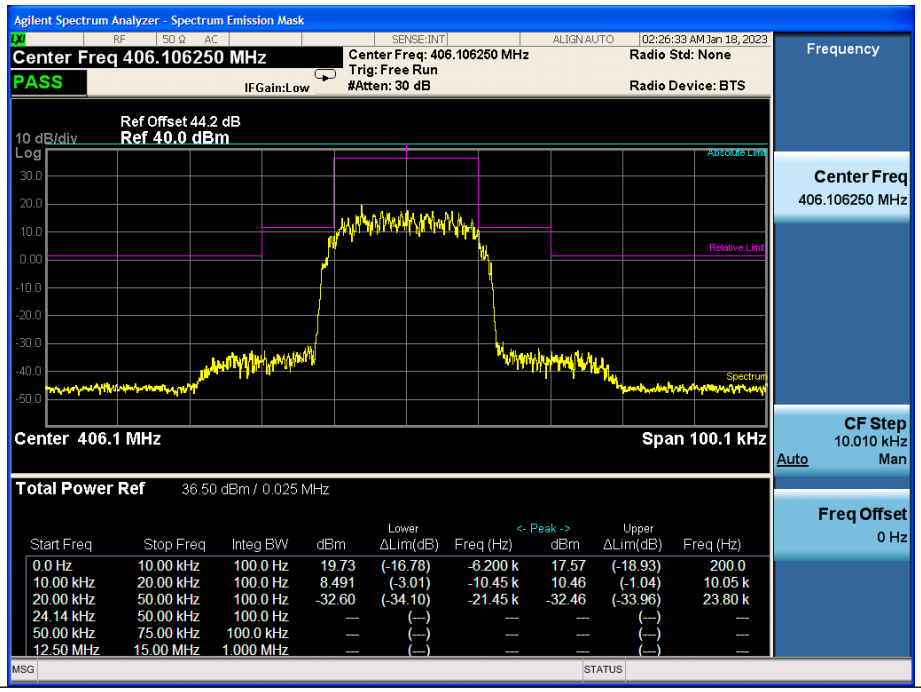
Emission Masks

DL_TETRA_LCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	100.0 Hz	19.74	(-16.48)	-6.200 k	18.48	(-17.75)	200.0
10.00 kHz	20.00 kHz	100.0 Hz	7.963	(-3.26)	-10.75 k	10.60	(-0.62)	10.05 k
20.00 kHz	50.00 kHz	100.0 Hz	-32.98	(-34.21)	-21.45 k	-32.03	(-33.25)	23.80 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_TETRA_LCH_3dB above AGC

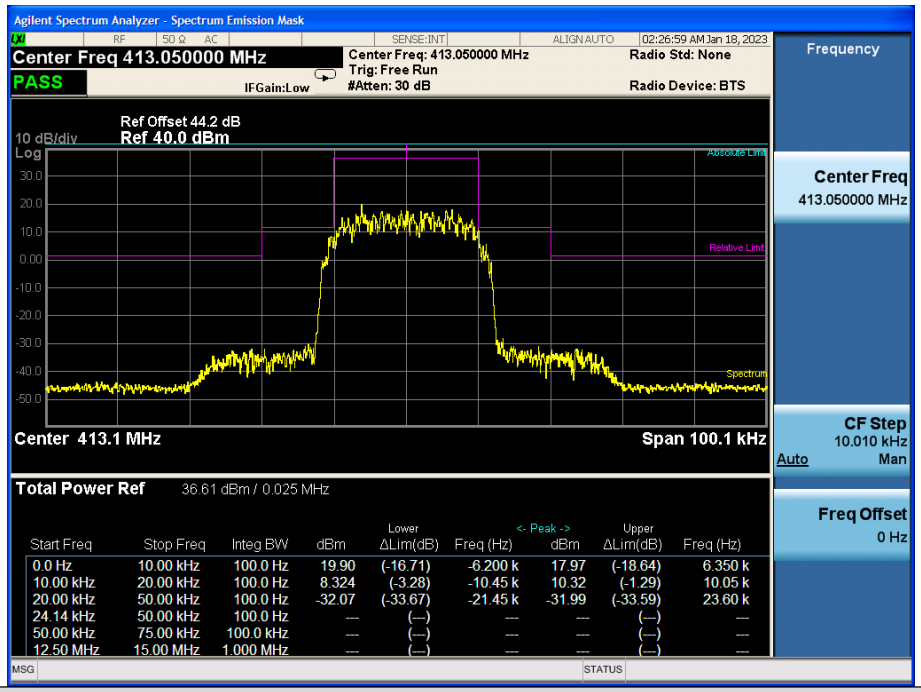


Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	100.0 Hz	19.73	(-16.78)	-6.200 k	17.57	(-18.93)	200.0
10.00 kHz	20.00 kHz	100.0 Hz	8.491	(-3.01)	-10.45 k	10.46	(-1.04)	10.05 k
20.00 kHz	50.00 kHz	100.0 Hz	-32.60	(-34.10)	-21.45 k	-32.46	(-33.96)	23.80 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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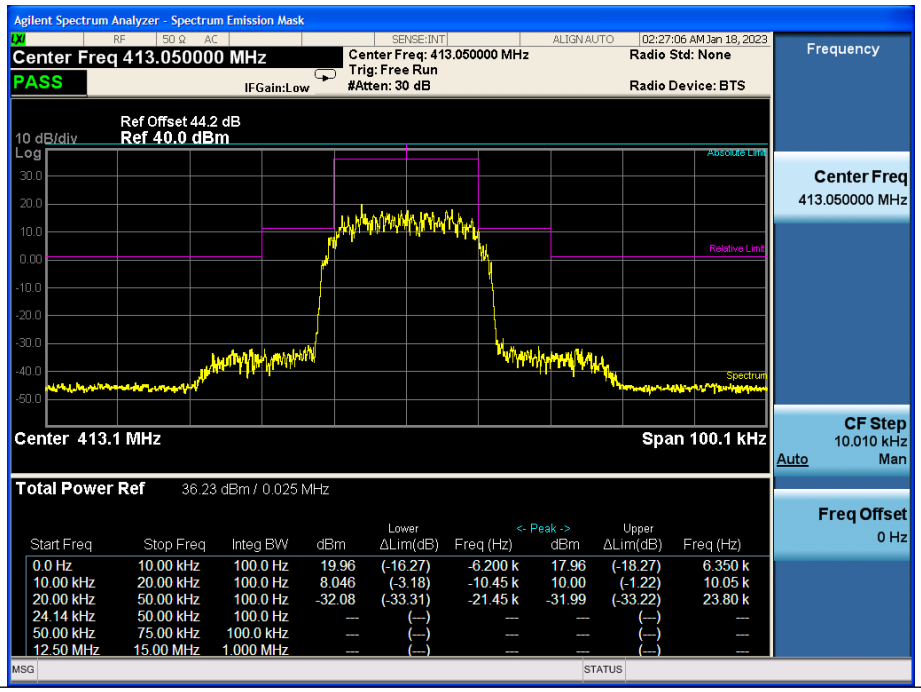
Emission Masks

DL_TETRA_MCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	100.0 Hz	19.90	(-16.71)	-6.200 k	17.97	(-18.64)	6.350 k
10.00 kHz	20.00 kHz	100.0 Hz	8.324	(-3.28)	-10.45 k	10.32	(-1.29)	10.05 k
20.00 kHz	50.00 kHz	100.0 Hz	-32.07	(-33.67)	-21.45 k	-31.99	(-33.59)	23.60 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_TETRA_MCH_3dB above AGC

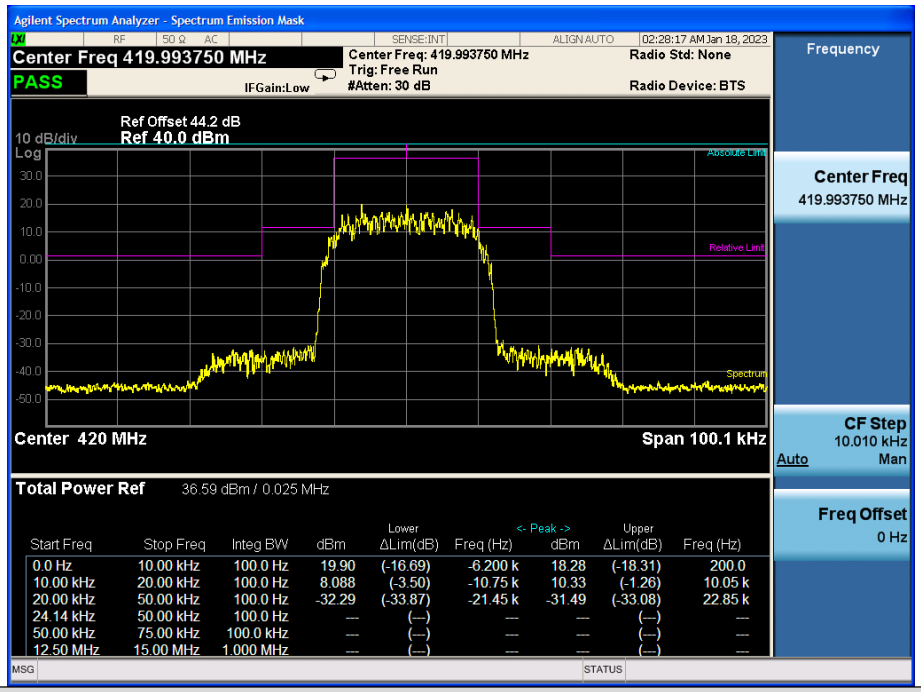


Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	100.0 Hz	19.96	(-16.27)	-6.200 k	17.96	(-18.27)	6.350 k
10.00 kHz	20.00 kHz	100.0 Hz	8.046	(-3.18)	-10.45 k	10.00	(-1.22)	10.05 k
20.00 kHz	50.00 kHz	100.0 Hz	-32.08	(-33.31)	-21.45 k	-31.99	(-33.22)	23.80 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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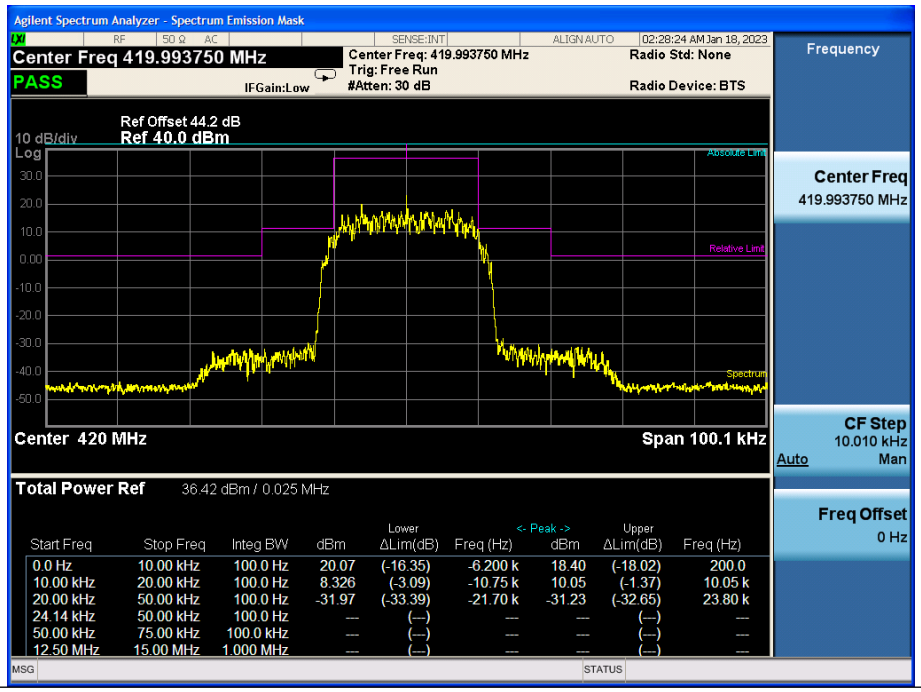
Emission Masks

DL_TETRA_HCH_Pre-AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	100.0 Hz	19.90	(-16.69)	-6.200 k	18.28	(-18.31)	200.0
10.00 kHz	20.00 kHz	100.0 Hz	8.088	(-3.50)	-10.75 k	10.33	(-1.26)	10.05 k
20.00 kHz	50.00 kHz	100.0 Hz	-32.29	(-33.87)	-21.45 k	-31.49	(-33.08)	22.85 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

DL_TETRA_HCH_3dB above AGC



Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Lower Freq (Hz)	<- Peak -> dBm	Upper ΔLim(dB)	Upper Freq (Hz)
0.0 Hz	10.00 kHz	100.0 Hz	20.07	(-16.35)	-6.200 k	18.40	(-18.02)	200.0
10.00 kHz	20.00 kHz	100.0 Hz	8.326	(-3.09)	-10.75 k	10.05	(-1.37)	10.05 k
20.00 kHz	50.00 kHz	100.0 Hz	-31.97	(-33.39)	-21.70 k	-31.23	(-32.65)	23.80 k
24.14 kHz	50.00 kHz	100.0 Hz	---	(---)	---	---	(---)	---
50.00 kHz	75.00 kHz	100.0 kHz	---	(---)	---	---	(---)	---
12.50 MHz	15.00 MHz	1.000 MHz	---	(---)	---	---	(---)	---

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5 Noise Figure

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	5.11	≤9	PASS

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6 Intermodulation

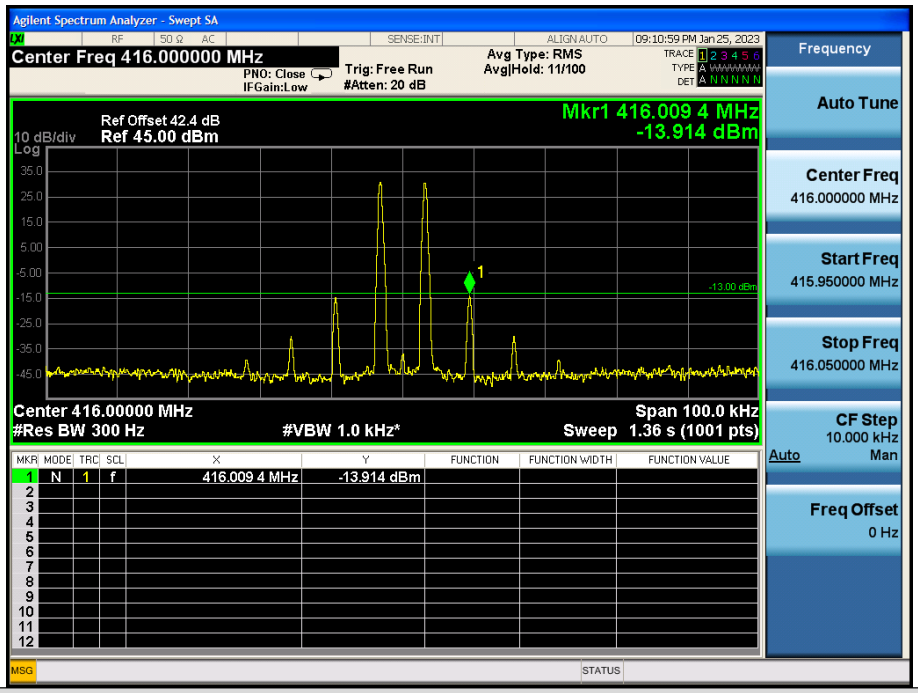
Intermodulation					
Test path	Test frequency f0 (MHz)	CW signal spacing (kHz)	Signal level	Worst conducted test level (dBm)	
				300Hz measurement bandwidth	10kHz measurement bandwidth
DL	416.0	6.25	Pre-AGC	-13.91	1.32
			3dB above AGC	-14.25	0.98
		12.5	Pre-AGC	-14.36	0.87
			3dB above AGC	-14.13	1.10
		25	Pre-AGC	-13.82	1.41
			3dB above AGC	-13.87	1.36

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+ 10lg(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 1.41/10kHz+ 0dBi- 2.15dB= -0.74dBm, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

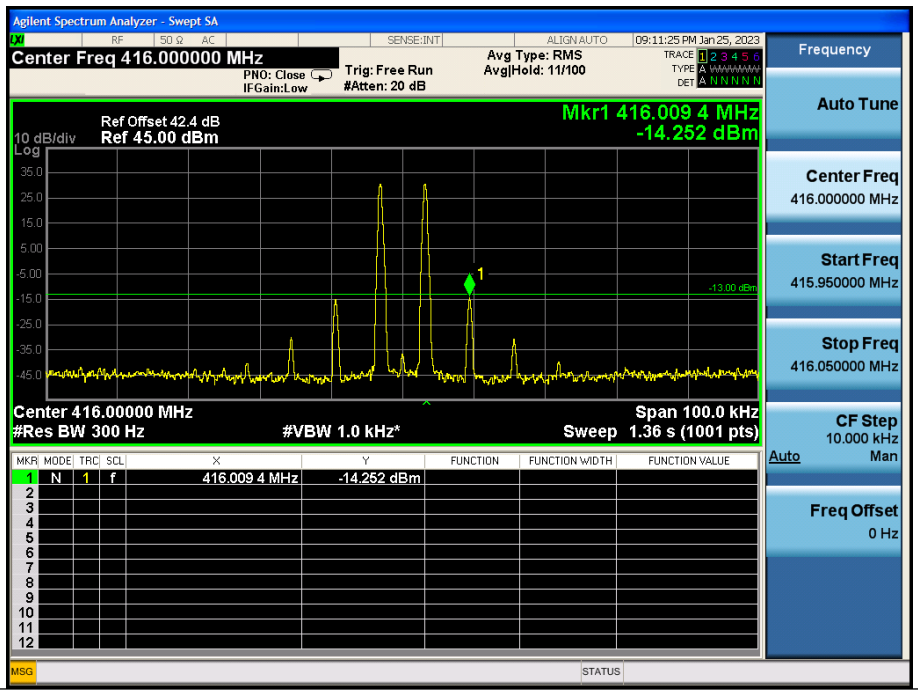
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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center EEC Laboratory.
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Intermodulation

DL_6.25kHz_Pre-AGC



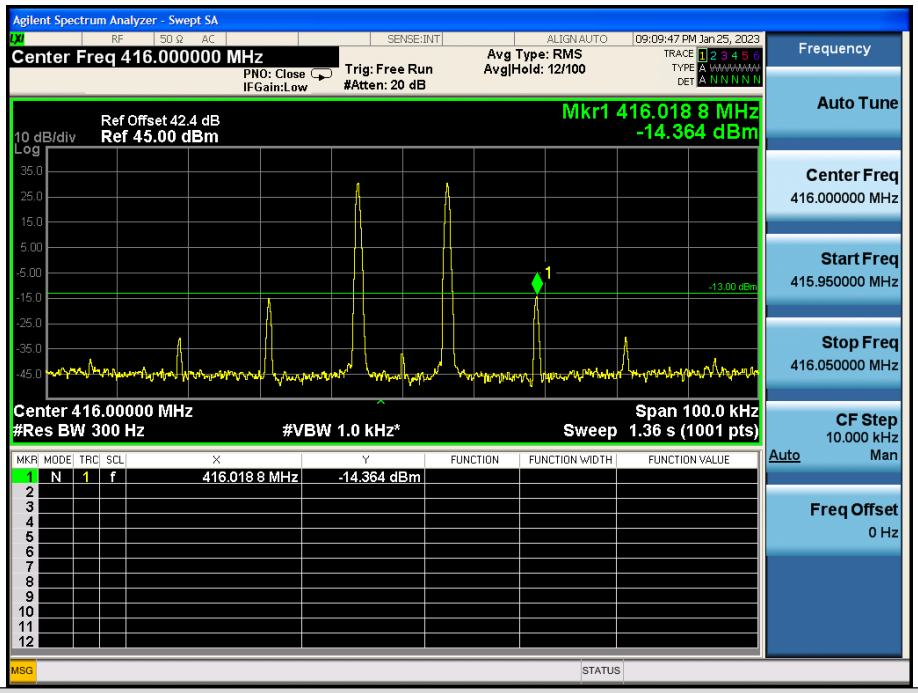
DL_6.25kHz_3dB above AGC



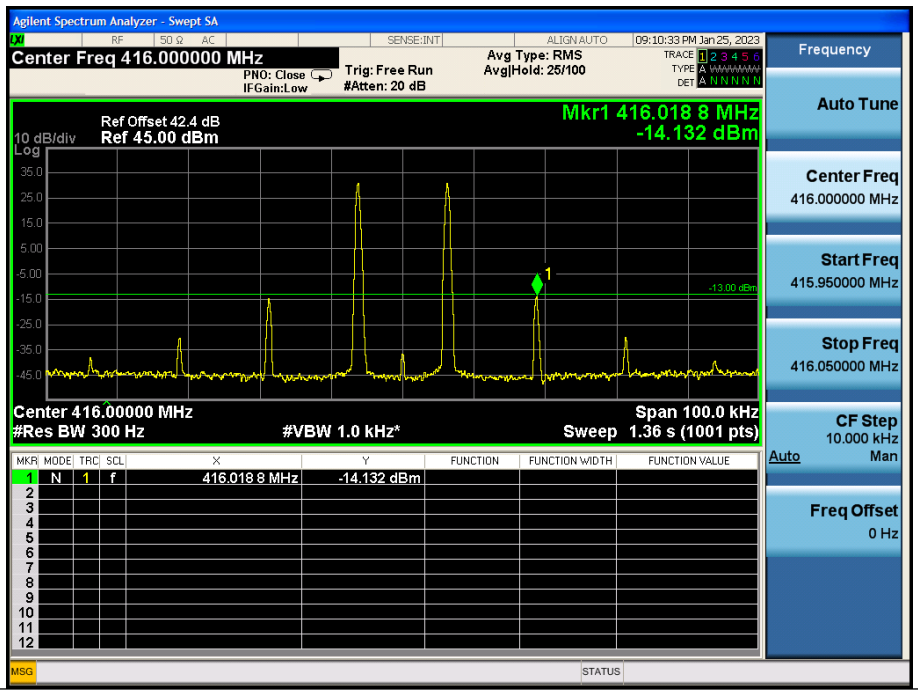
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Intermodulation

DL_12.5kHz_Pre-AGC



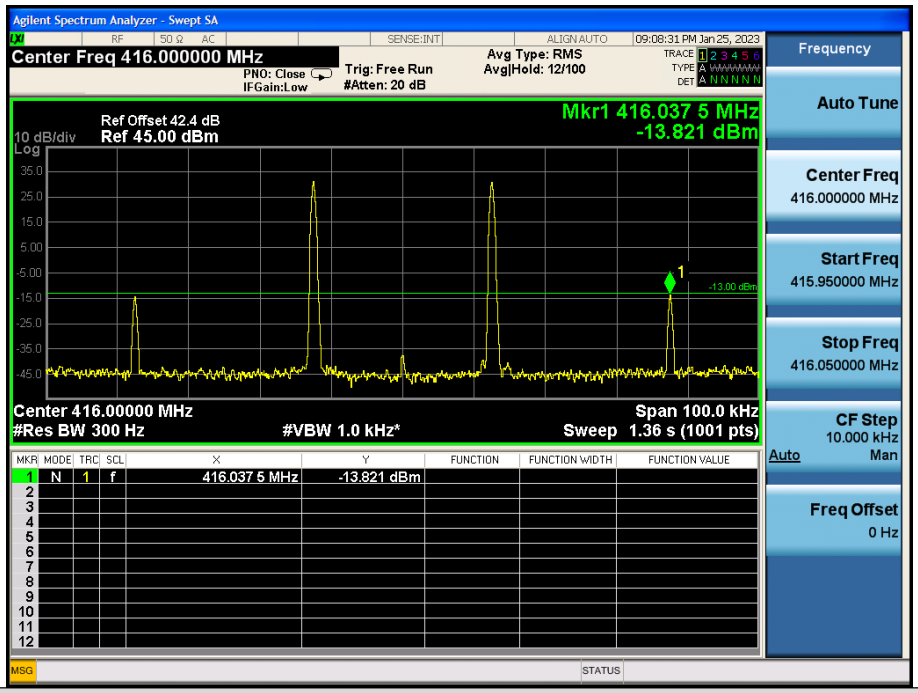
DL_12.5kHz_3dB above AGC



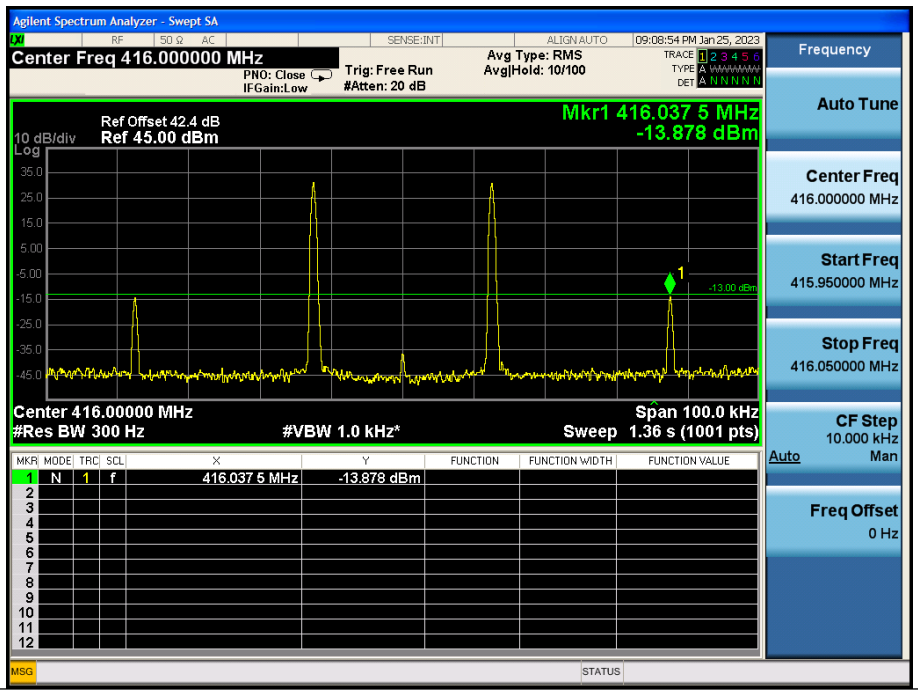
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Intermodulation

DL_25kHz_Pre-AGC



DL_25kHz_3dB above AGC



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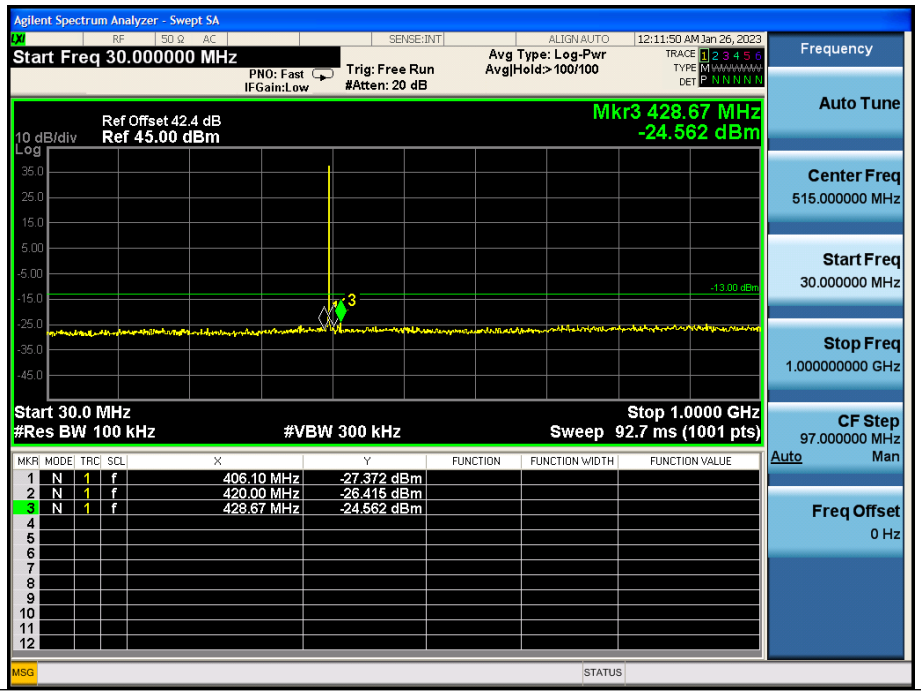
7 Conducted Spurious emissions

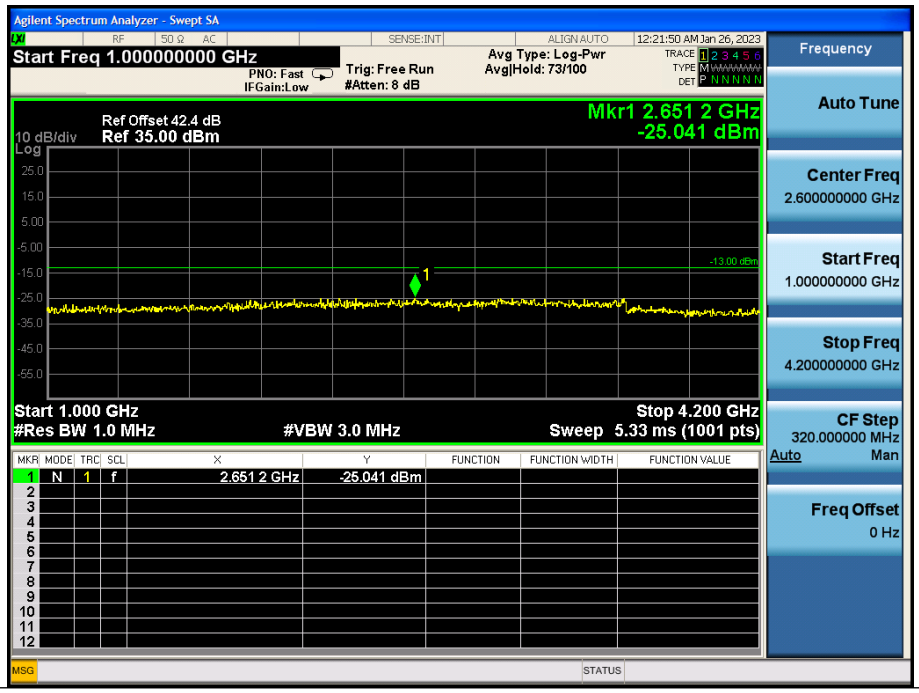
Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.009-1000	-24.56	≤-13	PASS
			1000-4200	-25.04	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.						

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Conducted Spurious emissions

DL_CW_MCH





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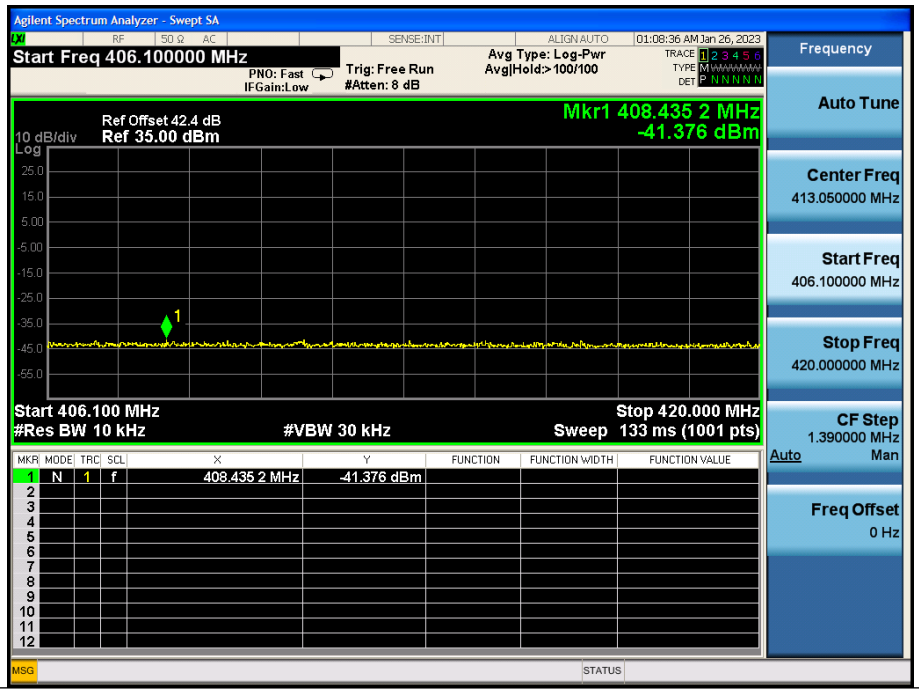
8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	406.1-420	-41.37
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-405.1	-44.58
	421-4200	-40.47

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 -41.37/10kHz+ 0dBi- 2.15dB= -43.52dBm, which did not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is -40.47/10kHz+ 0dBi- 2.15dB= -42.62dBm, 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.

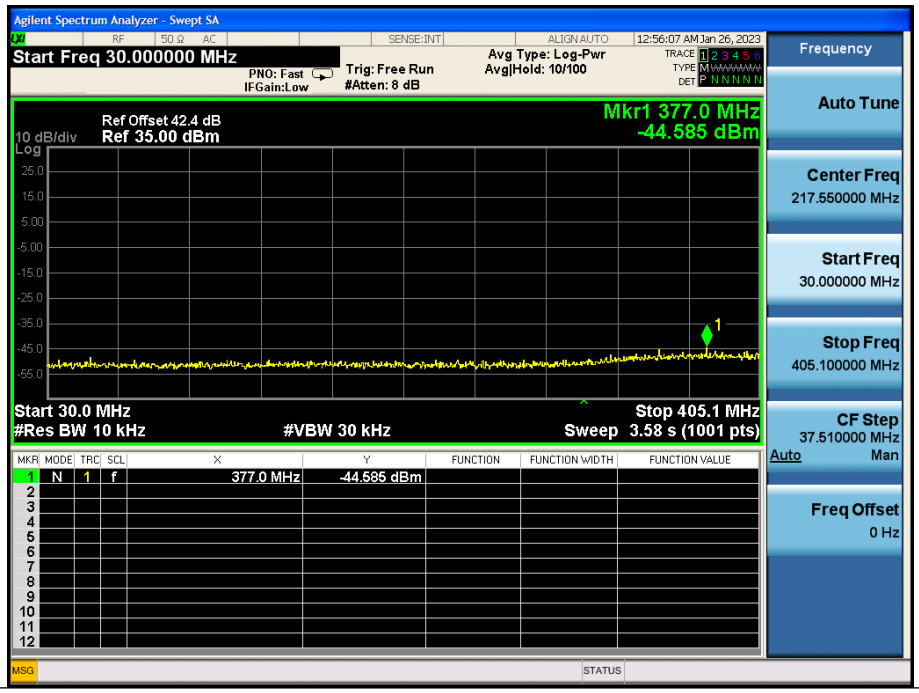
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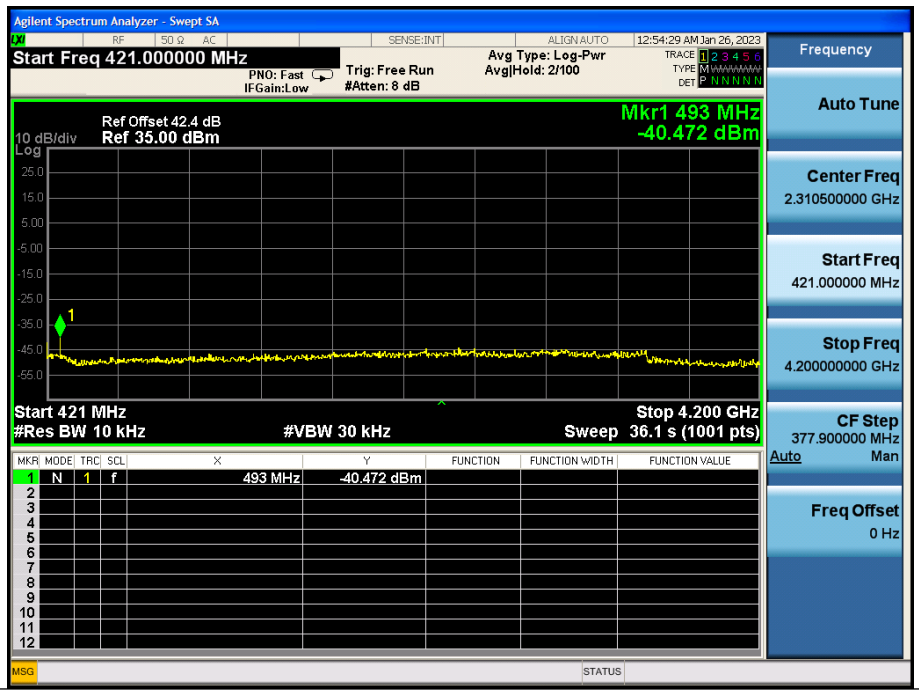
Noise within the passband
DL



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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	2.3	0.00557	PASS
			TN	VH	2.3	0.00557	PASS
	DMR	MCH	TN	VL	3.1	0.00751	PASS
			TN	VH	3.1	0.00751	PASS
	C4FM	MCH	TN	VL	2.6	0.00629	PASS
			TN	VH	2.6	0.00629	PASS
	H-DQPSK	MCH	TN	VL	3.2	0.00775	PASS
			TN	VH	3.2	0.00775	PASS
	TETRA	MCH	TN	VL	2.2	0.00533	PASS
			TN	VH	2.2	0.00533	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (℃)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	VN	+50	3.9	0.00944	PASS
			VN	+40	1.7	0.00412	PASS
			VN	+30	3.8	0.00920	PASS
			VN	+20	3.9	0.00944	PASS
			VN	+10	1.5	0.00363	PASS
			VN	0	3.6	0.00872	PASS
			VN	-10	3.6	0.00872	PASS
			VN	-20	2.1	0.00508	PASS
			VN	-30	4.1	0.00993	PASS
	DMR	MCH	VN	+50	3.8	0.00920	PASS
			VN	+40	2.7	0.00654	PASS
			VN	+30	1.7	0.00412	PASS
			VN	+20	1.7	0.00412	PASS
			VN	+10	2.1	0.00508	PASS
			VN	0	1.8	0.00436	PASS
			VN	-10	1.2	0.00291	PASS
			VN	-20	3.8	0.00920	PASS
			VN	-30	2.9	0.00702	PASS
	C4FM	MCH	VN	+50	1.9	0.00460	PASS
			VN	+40	2.4	0.00581	PASS
			VN	+30	1.9	0.00460	PASS
			VN	+20	2.3	0.00557	PASS
			VN	+10	2.1	0.00508	PASS
			VN	0	3.5	0.00847	PASS
			VN	-10	2.8	0.00678	PASS
			VN	-20	1.3	0.00315	PASS
			VN	-30	1.5	0.00363	PASS

检验检测专用章 Inspection & Testing Services
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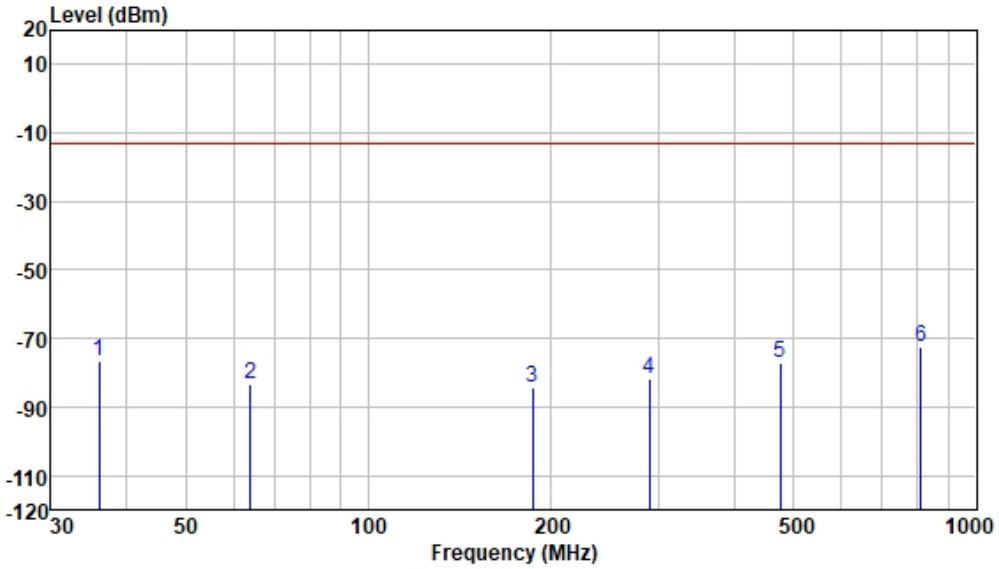
Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (℃)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	D-HQPSK	MCH	VN	+50	2.2	0.00533	PASS
			VN	+40	2.6	0.00629	PASS
			VN	+30	3.3	0.00799	PASS
			VN	+20	3.5	0.00847	PASS
			VN	+10	2.9	0.00702	PASS
			VN	0	2.4	0.00581	PASS
			VN	-10	2.8	0.00678	PASS
			VN	-20	2.4	0.00581	PASS
			VN	-30	1.5	0.00363	PASS
	TRTRA	MCH	VN	+50	1.4	0.00339	PASS
			VN	+40	1.8	0.00436	PASS
			VN	+30	2.6	0.00629	PASS
			VN	+20	3.4	0.00823	PASS
			VN	+10	2.3	0.00557	PASS
			VN	0	3.9	0.00944	PASS
			VN	-10	3.1	0.00751	PASS
			VN	-20	1.3	0.00315	PASS
			VN	-30	2.2	0.00533	PASS

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10 Radiated Spurious emissions below 1GHz

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



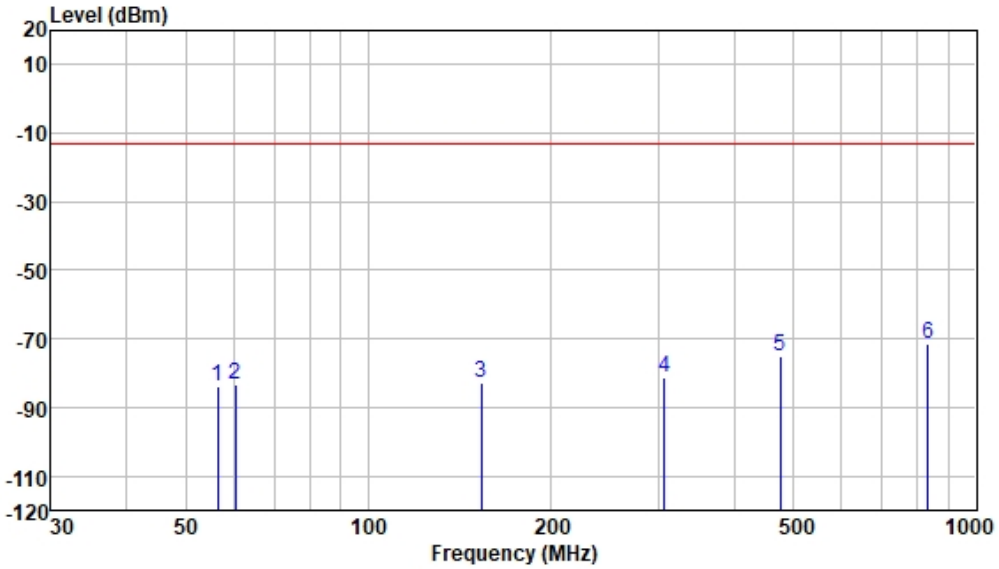
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	36.00	-79.51	2.72	-76.79	-13.00	-63.79	HORIZONTAL
2	63.98	-79.15	-3.92	-83.07	-13.00	-70.07	HORIZONTAL
3	186.44	-78.32	-6.17	-84.49	-13.00	-71.49	HORIZONTAL
4	290.02	-79.09	-2.72	-81.81	-13.00	-68.81	HORIZONTAL
5	475.50	-77.69	0.34	-77.35	-13.00	-64.35	HORIZONTAL
6	810.27	-79.52	6.98	-72.54	-13.00	-59.54	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



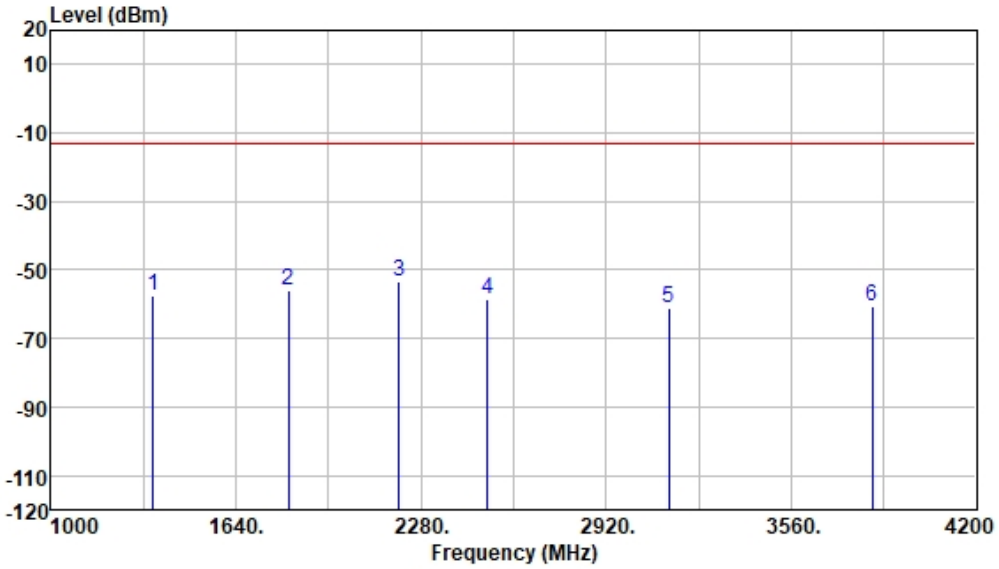
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	56.39	-80.62	-3.37	-83.99	-13.00	-70.99	VERTICAL
2	60.28	-80.89	-2.19	-83.08	-13.00	-70.08	VERTICAL
3	153.20	-79.03	-3.94	-82.97	-13.00	-69.97	VERTICAL
4	306.75	-78.64	-2.64	-81.28	-13.00	-68.28	VERTICAL
5	475.50	-76.99	1.87	-75.12	-13.00	-62.12	VERTICAL
6	833.32	-79.24	7.73	-71.51	-13.00	-58.51	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

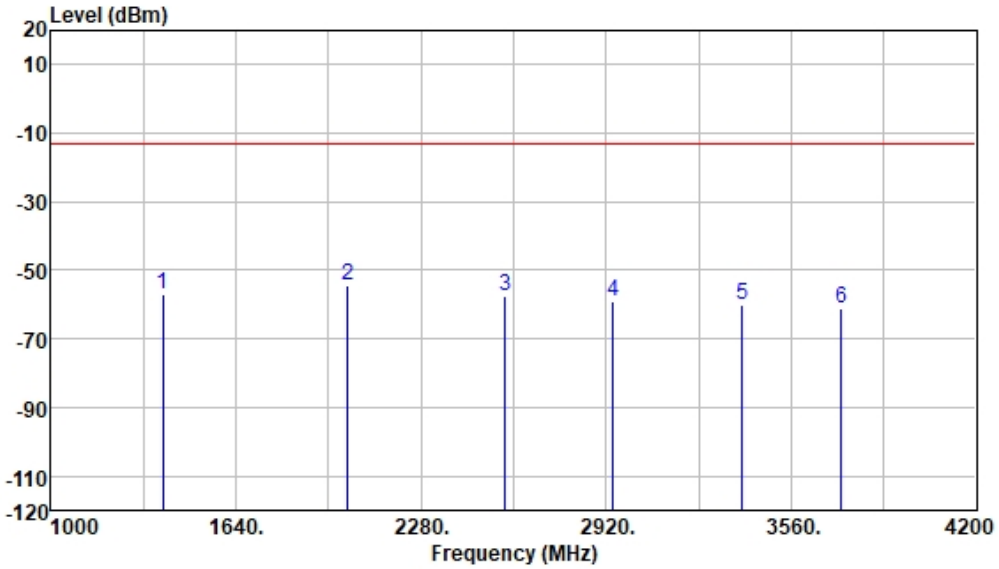
Radiated Spurious emissions
DL_CW_MCH_above 1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1352.00	-61.67	4.26	-57.41	-13.00	-44.41	HORIZONTAL
2	1822.40	-62.00	5.84	-56.16	-13.00	-43.16	HORIZONTAL
3	2203.20	-62.48	9.23	-53.25	-13.00	-40.25	HORIZONTAL
4	2510.40	-65.87	7.10	-58.77	-13.00	-45.77	HORIZONTAL
5	3137.60	-63.61	2.29	-61.32	-13.00	-48.32	HORIZONTAL
6	3841.60	-63.84	3.14	-60.70	-13.00	-47.70	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	1387.20	-61.02	4.06	-56.96	-13.00	-43.96	VERTICAL
2	2027.20	-62.92	8.68	-54.24	-13.00	-41.24	VERTICAL
3	2571.20	-63.68	6.08	-57.60	-13.00	-44.60	VERTICAL
4	2945.60	-63.13	3.93	-59.20	-13.00	-46.20	VERTICAL
5	3390.40	-62.96	3.08	-59.88	-13.00	-46.88	VERTICAL
6	3732.80	-64.47	3.34	-61.13	-13.00	-48.13	VERTICAL

--End of Appendix--

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