

Appendix -

Test Data and Result for report

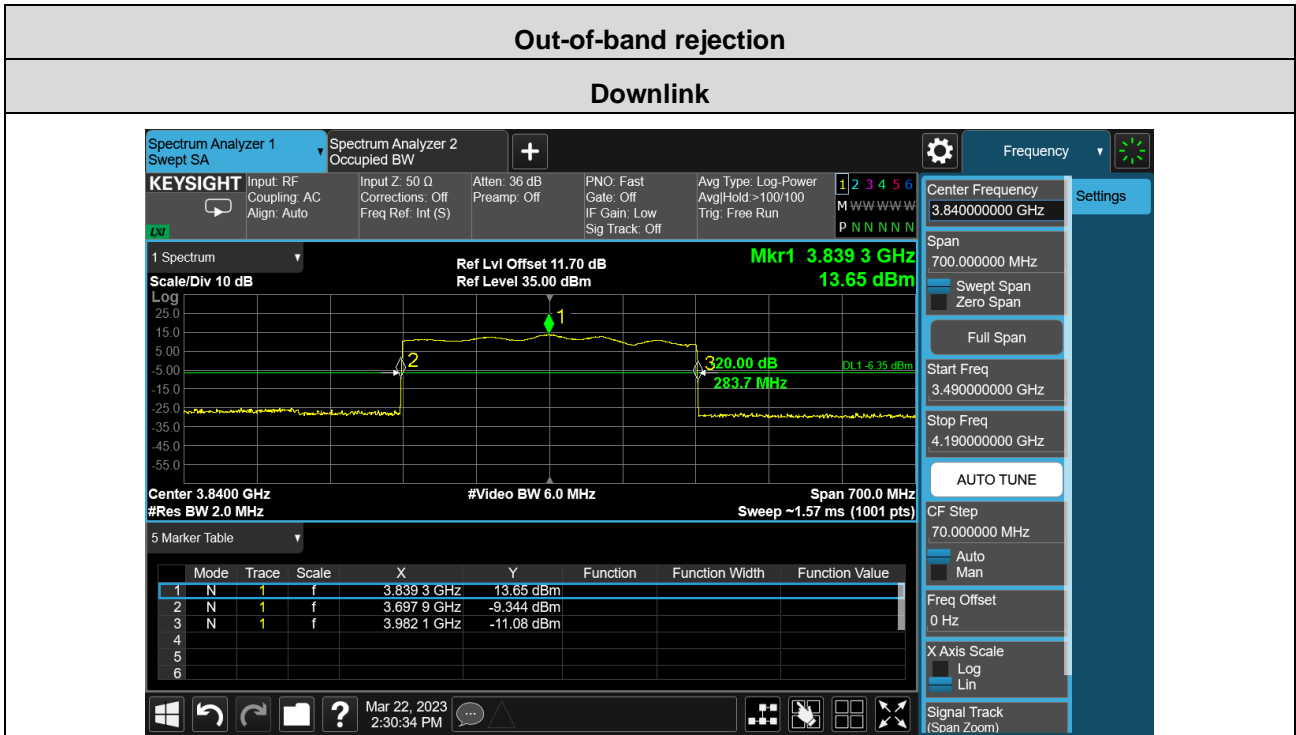
GZCR230300022308

(3.7GHz service band)



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1 Out-of-band rejection



The peak of the frequency response f_0 is 3839.3MHz. The frequency point f_0 with the highest power level fall in the CMRS band under test, EUT is compiled the 935210 D05 Indus Booster Basic Meas v01r04 Out-of-band rejection verification test requirement.



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2 Input versus Output comparison

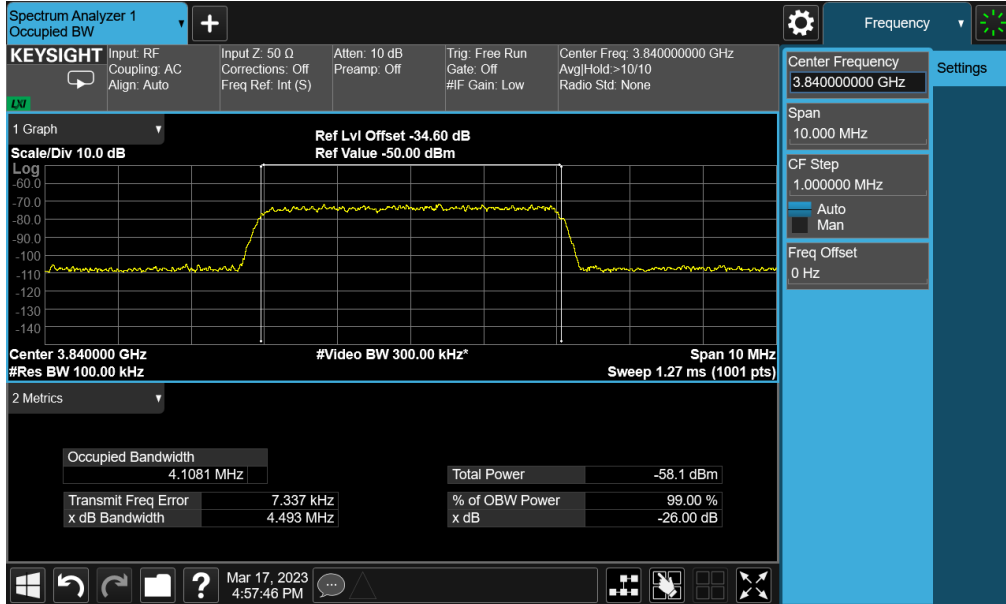
Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
Downlink	5MHz AWGN	Middle Channel	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	Middle Channel	Pre-AGC	PASS
			3dB above AGC	PASS
	GSM	Middle Channel	Pre-AGC	PASS
			3dB above AGC	PASS



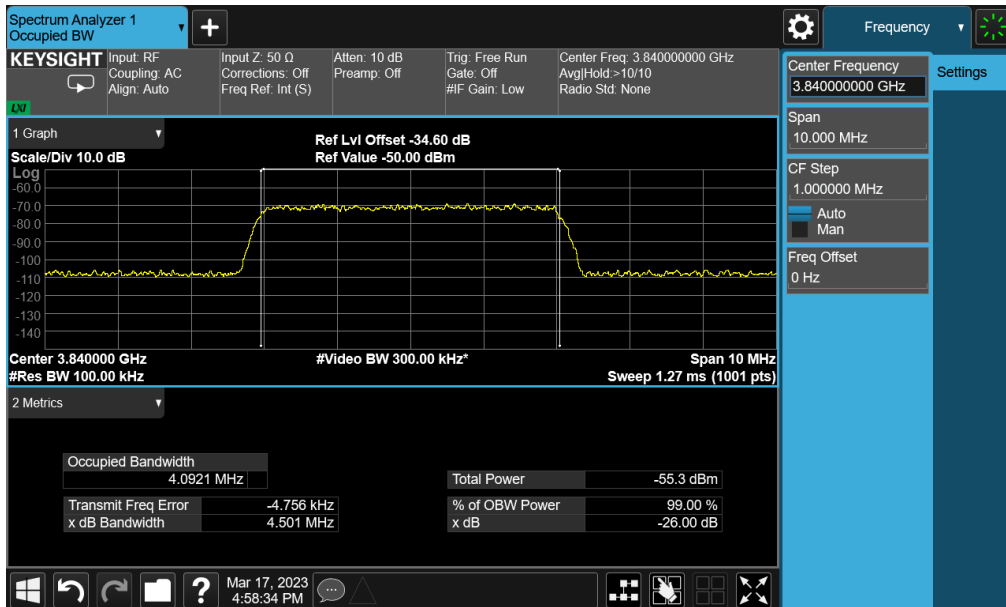
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99% OBW

Downlink_5MHz AWGN_Middle Channel_Input pre-AGC



Downlink_5MHz AWGN_Middle Channel_Input 3dB above AGC

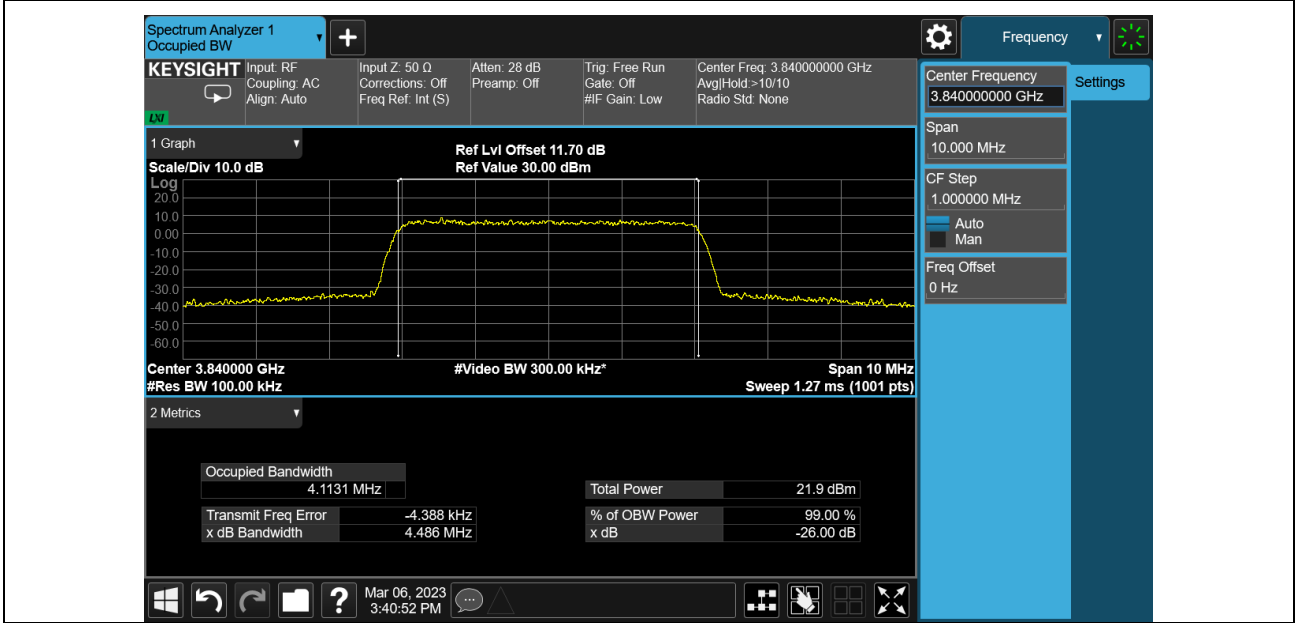


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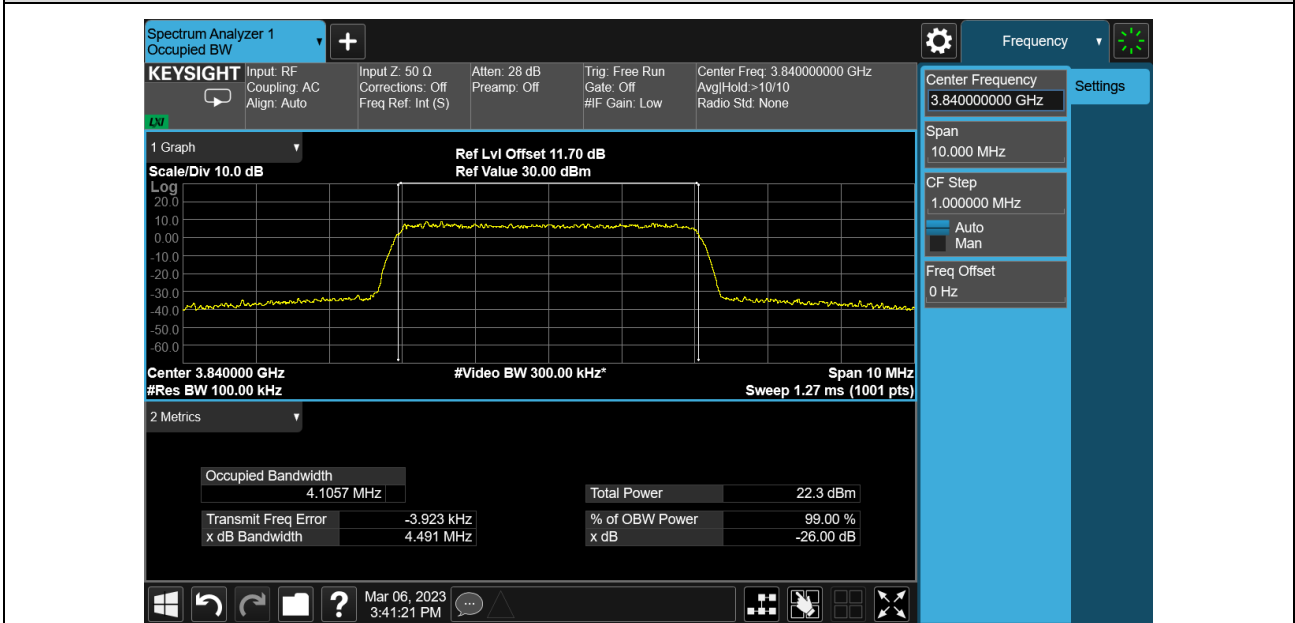
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99% OBW

Downlink_5MHz AWGN_Middle Channel_Output pre-AGC

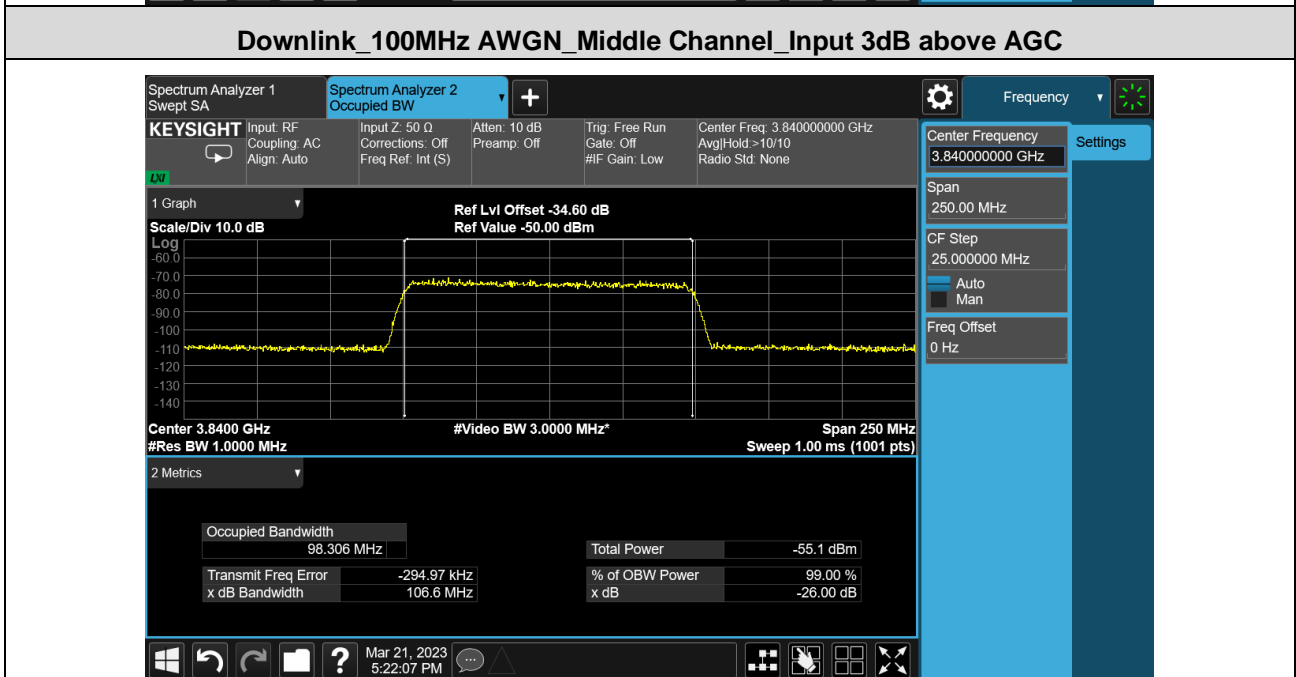
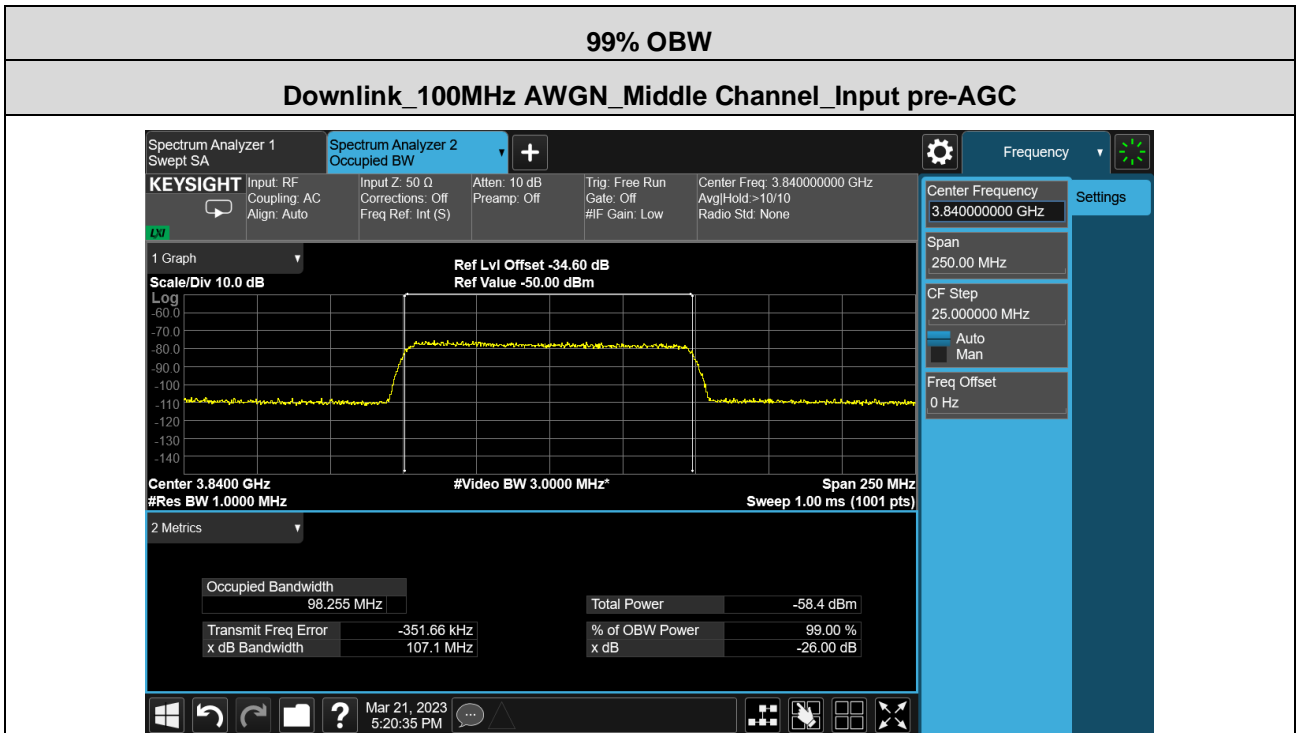


Downlink_5MHz AWGN_Middle Channel_Output 3dB above AGC



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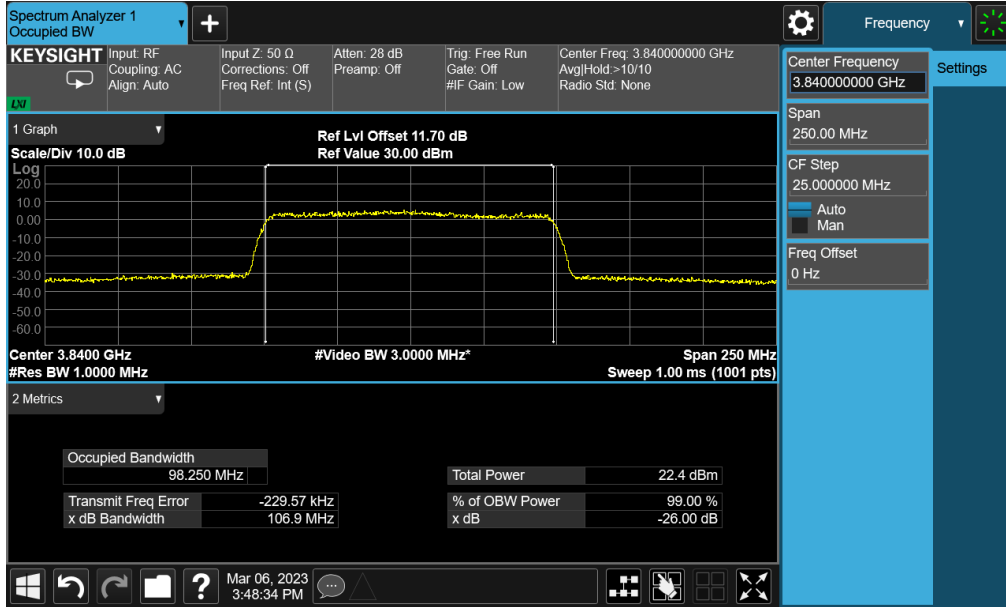


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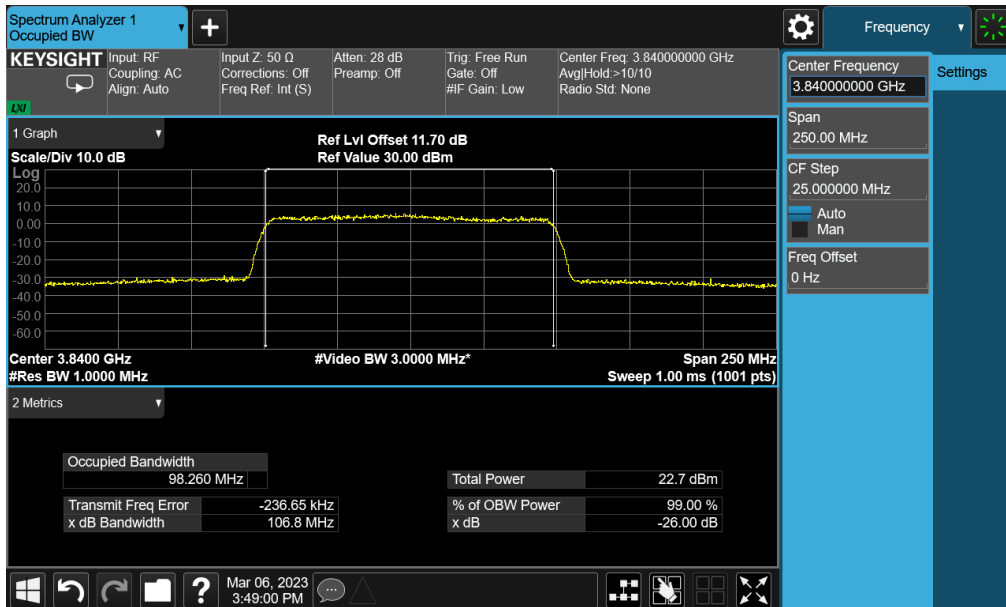
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99% OBW

Downlink_100MHz AWGN_Middle Channel_Output pre-AGC



Downlink_100MHz AWGN_Middle Channel_Output 3dB above AGC

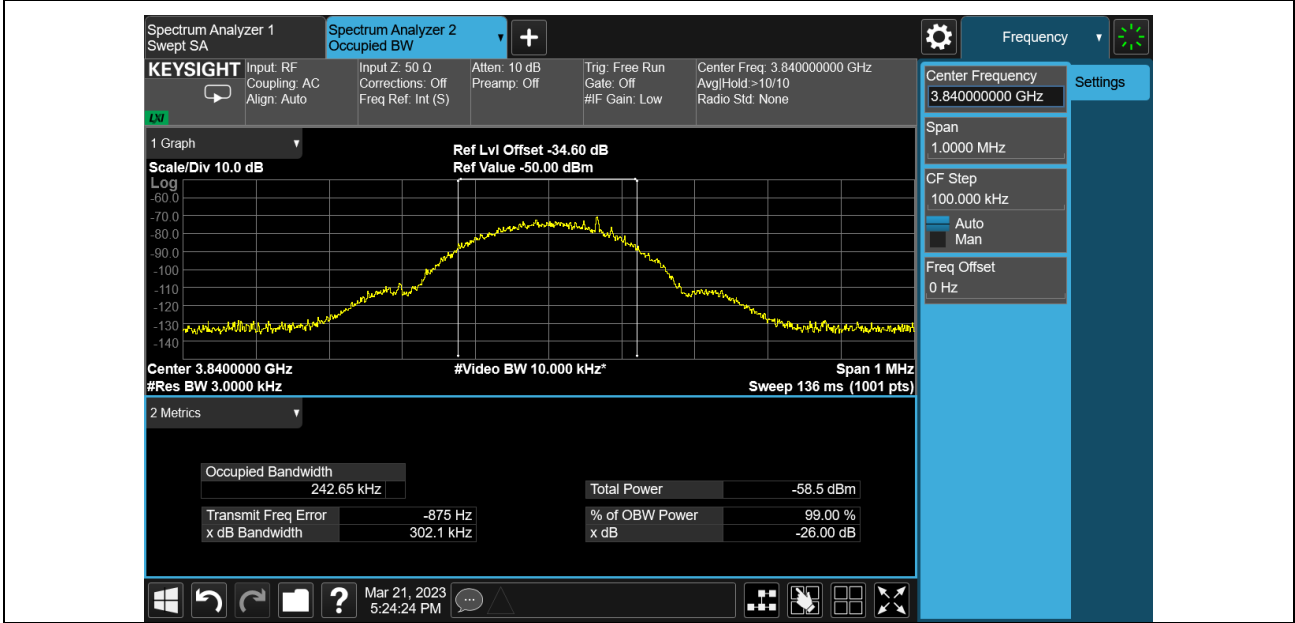


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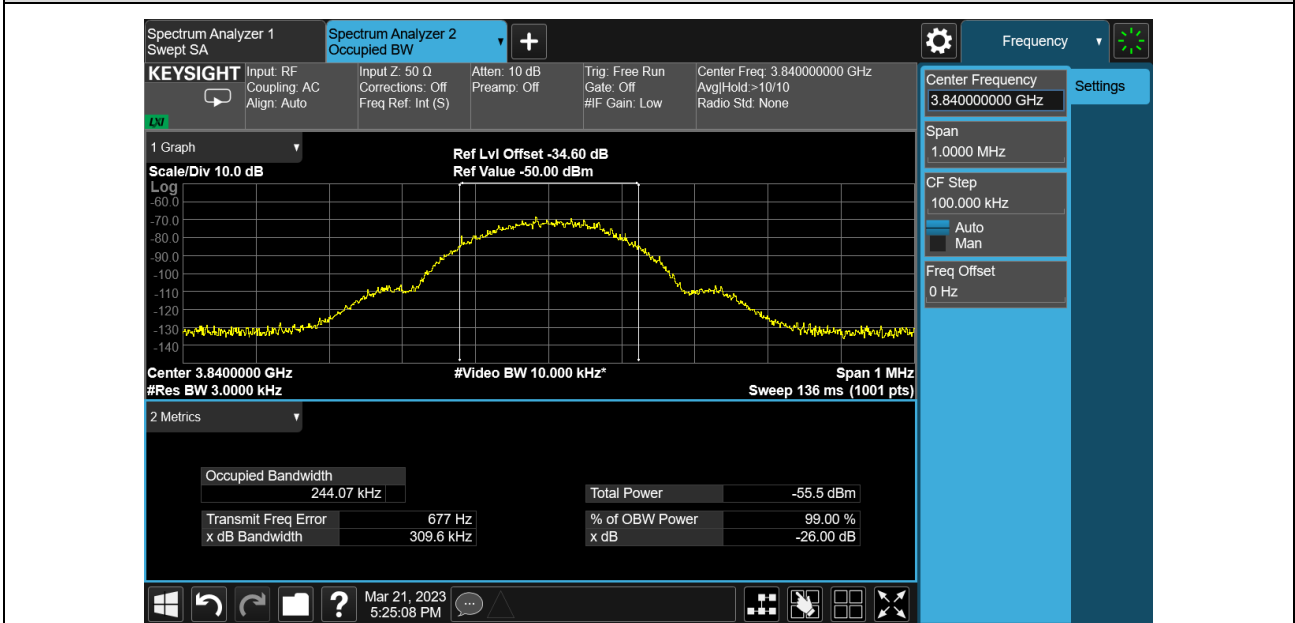
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99% OBW

Downlink_GSM_Middle Channel_Input pre-AGC



Downlink_GSM_Middle Channel_Input 3dB above AGC

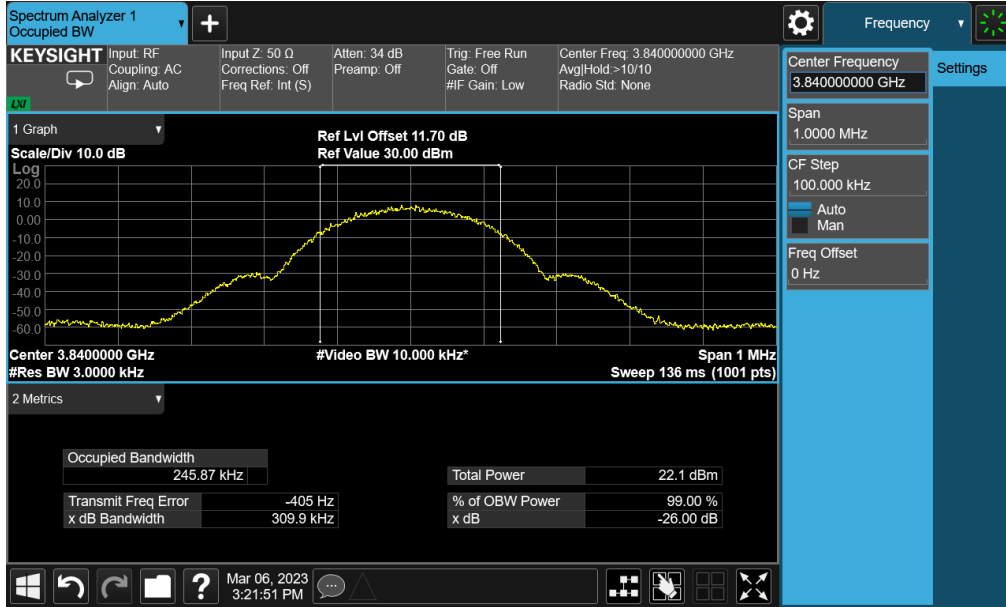


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99% OBW

Downlink_GSM_Middle Channel_Output pre-AGC



Downlink_GSM_Middle Channel_Output 3dB above AGC



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3 Mean output power and amplifier/booster gain

Mean output power and gain							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	EIRP (W)	Gain (dB)
Downlink	3839.3	5MHz AWGN	Pre-AGC	-58.00	21.48	0.29	79.48
			3dB above AGC	-55.00	21.27	0.27	/
		100MHz AWGN	Pre-AGC	-58.00	20.41	0.22	78.41
			3dB above AGC	-55.00	20.67	0.24	/
		GSM	Pre-AGC	-58.00	23.68	0.47	81.68
			3dB above AGC	-55.00	23.53	0.45	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 3dBi declared by the manufacturer.

Mean output power						
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (W/MHz)	Verdict
Downlink	3839.3	5MHz AWGN	Pre-AGC	15.06	0.0640	PASS
			3dB above AGC	15.34	0.0683	PASS
		100MHz AWGN	Pre-AGC	1.45	0.0028	PASS
			3dB above AGC	1.56	0.0028	PASS
		GSM	Pre-AGC	23.66	0.47	PASS
			3dB above AGC	23.21	0.42	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 3dBi declared by the manufacturer.
- The output power is limited to an EIRP of 1640W/MHz.



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Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
Downlink	3839.3	5MHz AWGN	Pre-AGC	7.54	≤13	PASS
			3dB above AGC	7.23		PASS
		100MHz AWGN	Pre-AGC	8.98		PASS
			3dB above AGC	9.12		PASS
		GSM	Pre-AGC	0.27		PASS
			3dB above AGC	0.27		PASS



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4 Out-of-band/out-of-block (including intermodulation) emissions

Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level		Limit (dBm/MHz)	Verdict
					(dBm/100kHz)	(dBm/MHz)		
Downlink	lower edge	5MHz AWGN	One signal input	Pre-AGC	-29.84	-19.84	≤-13	PASS
				3dB above AGC	-30.50	-20.50		PASS
			Two signals input	Pre-AGC	-30.37	-20.37		PASS
				3dB above AGC	-30.94	-20.94		PASS
	upper edge		One signal input	Pre-AGC	-30.69	-20.69		PASS
				3dB above AGC	-30.97	-20.97		PASS
			Two signals input	Pre-AGC	-28.74	-28.74		PASS
				3dB above AGC	-29.92	-19.92		PASS

Remark:
The level in 1MHz RBW= the level in 100kHz RBW+ 10lg(1000/100)

Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level		Limit (dBm/MHz)	Verdict
					(dBm/100kHz)	(dBm/MHz)		
Downlink	lower edge	100MHz AWGN	One signal input	Pre-AGC	-26.03	-16.03	≤-13	PASS
				3dB above AGC	-25.61	-15.61		PASS
			Two signals input	Pre-AGC	-27.09	-17.09		PASS
				3dB above AGC	-27.25	-17.25		PASS
	upper edge		One signal input	Pre-AGC	-27.62	-17.62		PASS
				3dB above AGC	-27.06	-17.06		PASS
			Two signals input	Pre-AGC	-28.39	-18.39		PASS
				3dB above AGC	-27.90	-17.90		PASS

Remark:
The level in 1MHz RBW= the level in 100kHz RBW+ 10lg(1000/100)



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Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level		Limit (dBm/MHz)	Verdict
					(dBm/10kHz)	(dBm/MHz)		
Downlink	lower edge	GSM	One signal input	Pre-AGC	-46.09	-26.09	≤-13	PASS
				3dB above AGC	-45.26	-25.26		PASS
			Two signals input	Pre-AGC	-37.52	-17.52		PASS
				3dB above AGC	-37.05	-17.05		PASS
	upper edge		One signal input	Pre-AGC	-42.97	-22.97		PASS
				3dB above AGC	-42.44	-22.44		PASS
			Two signals input	Pre-AGC	-35.69	-15.69		PASS
				3dB above AGC	-36.14	-16.14		PASS

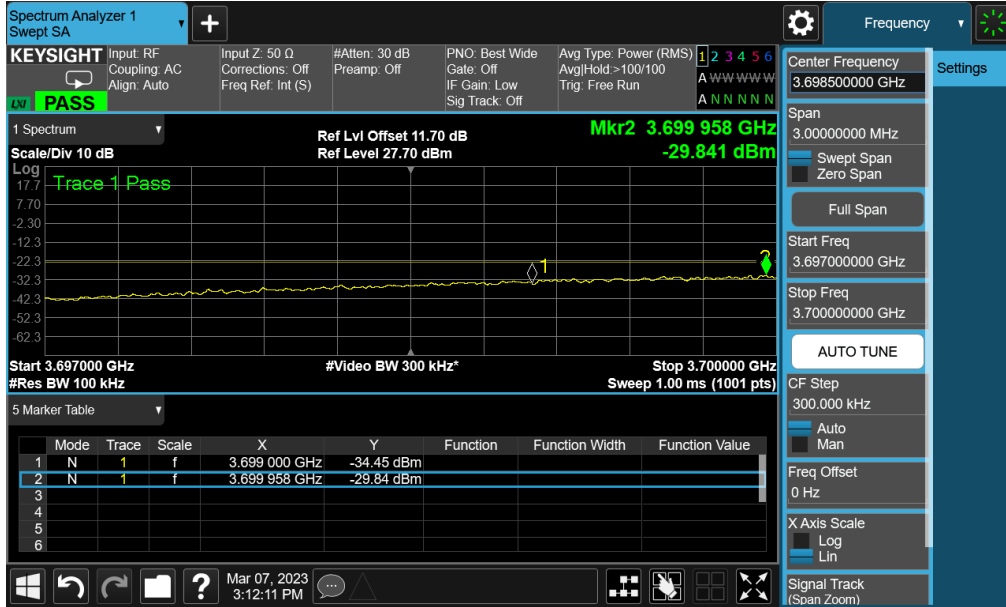
Remark:
The level in 1MHz RBW= the level in 10kHz RBW+ 10lg(1000/10)



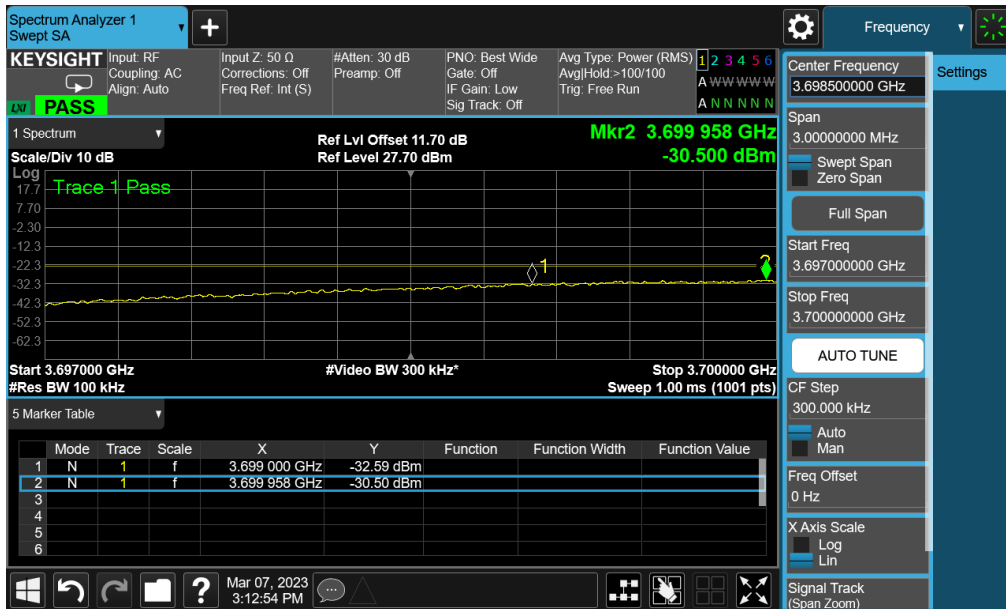
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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_One signal input_Pre-AGC_Lower edge



Downlink_5MHz AWGN_One signal input_3dB above AGC_Lower edge

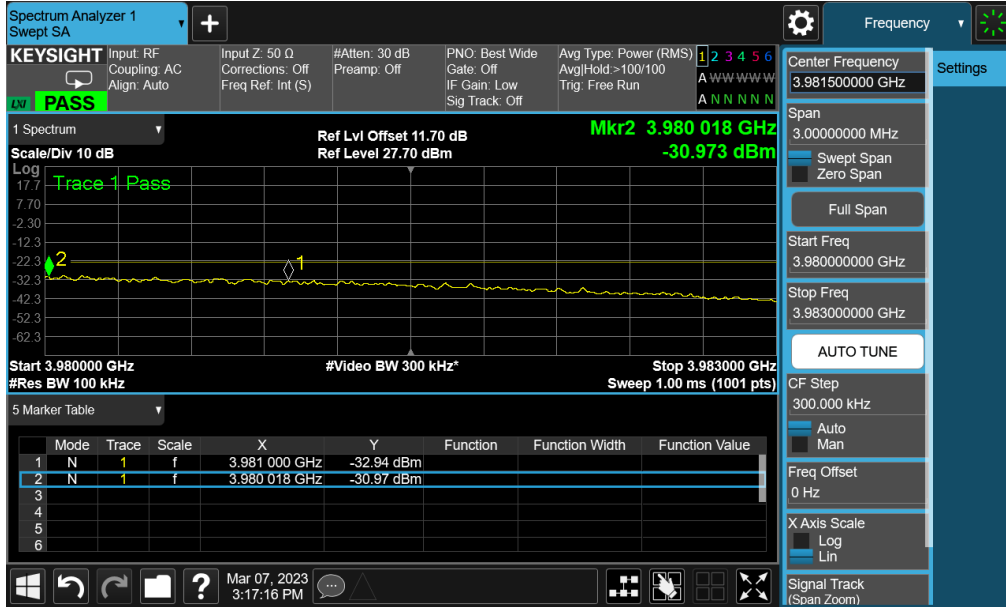


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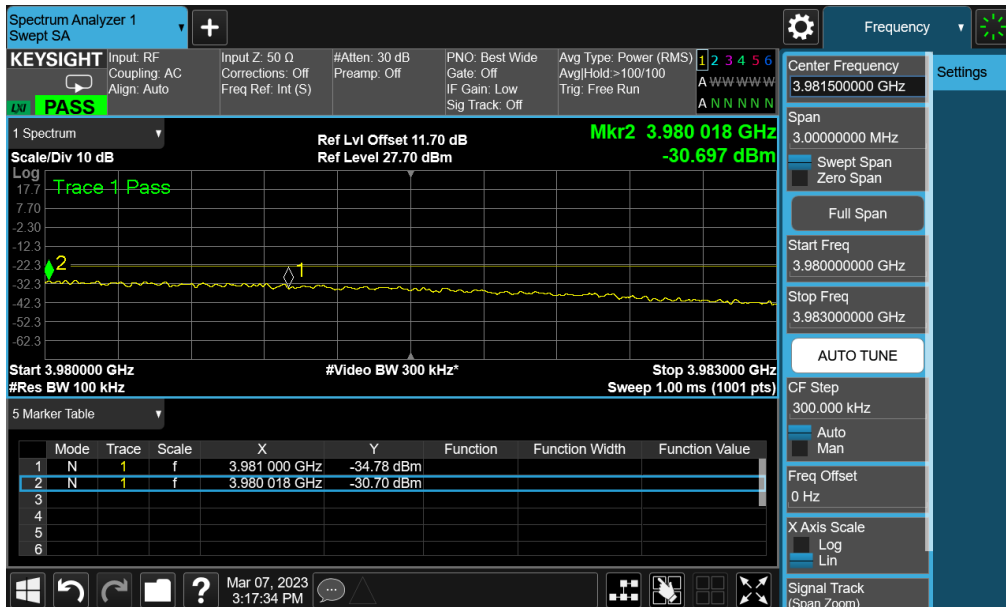
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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_One signal input_Pre-AGC_Upper edge



Downlink_5MHz AWGN_One signal input_3dB above AGC_Upper edge

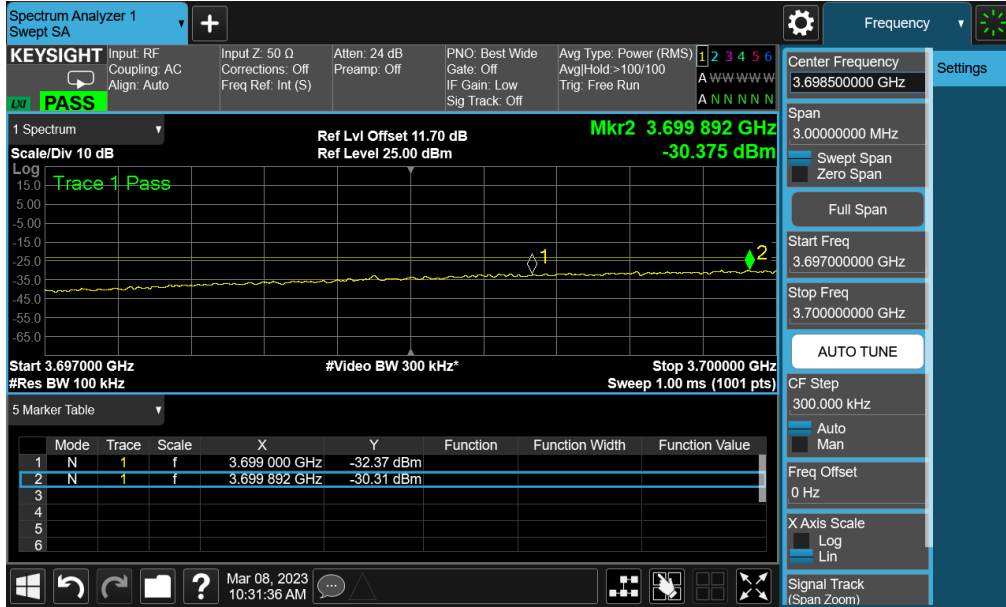


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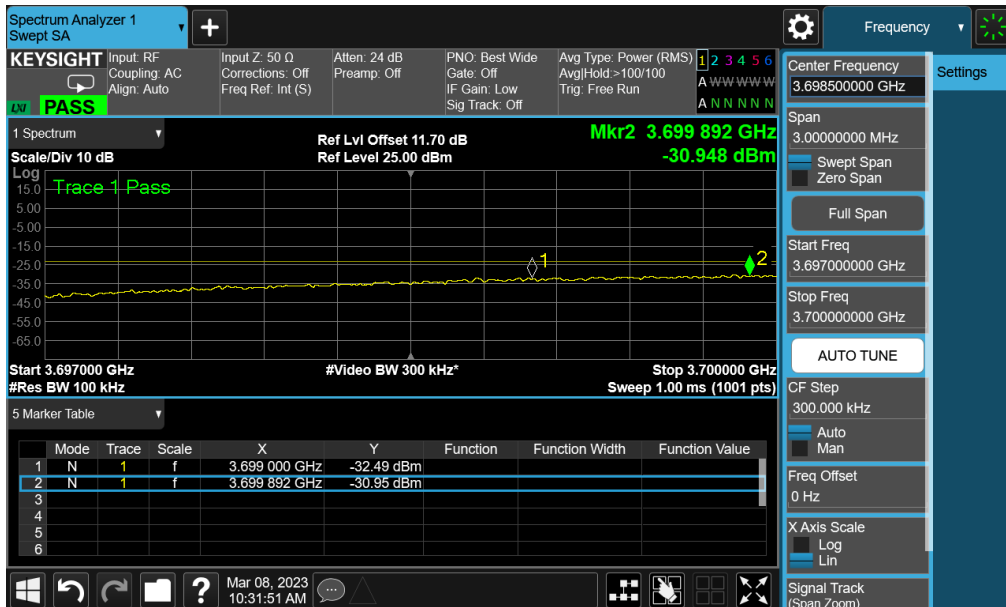
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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_Two signals input_Pre-AGC_Lower edge



Downlink_5MHz AWGN_Two signals input_3dB above AGC_Lower edge

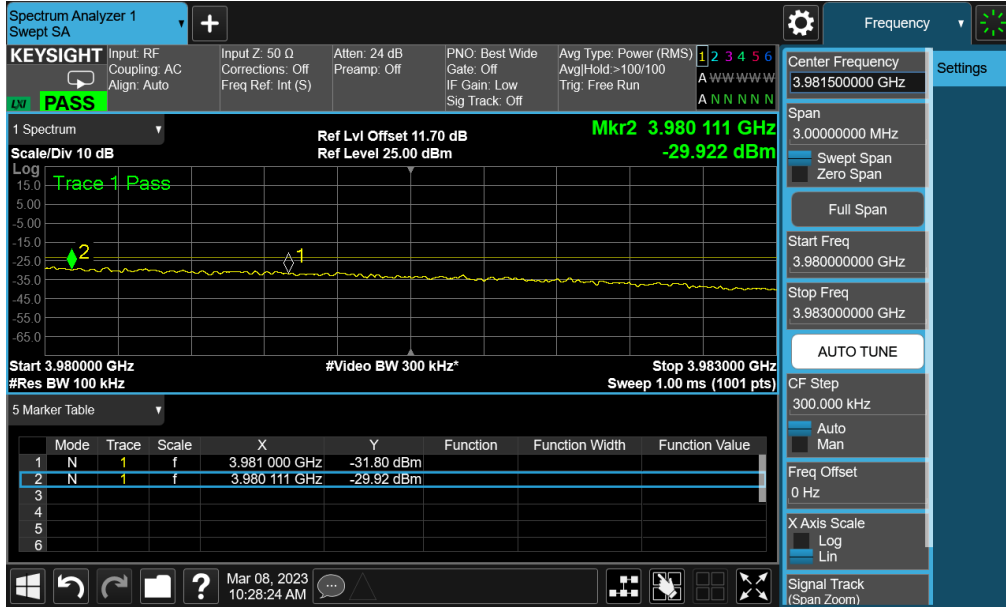


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Out-of-band/out-of-block emissions

Downlink_5MHz AWGN_Two signals input_Pre-AGC_Upper edge



Downlink_5MHz AWGN_Two signals input_3dB above AGC_Upper edge

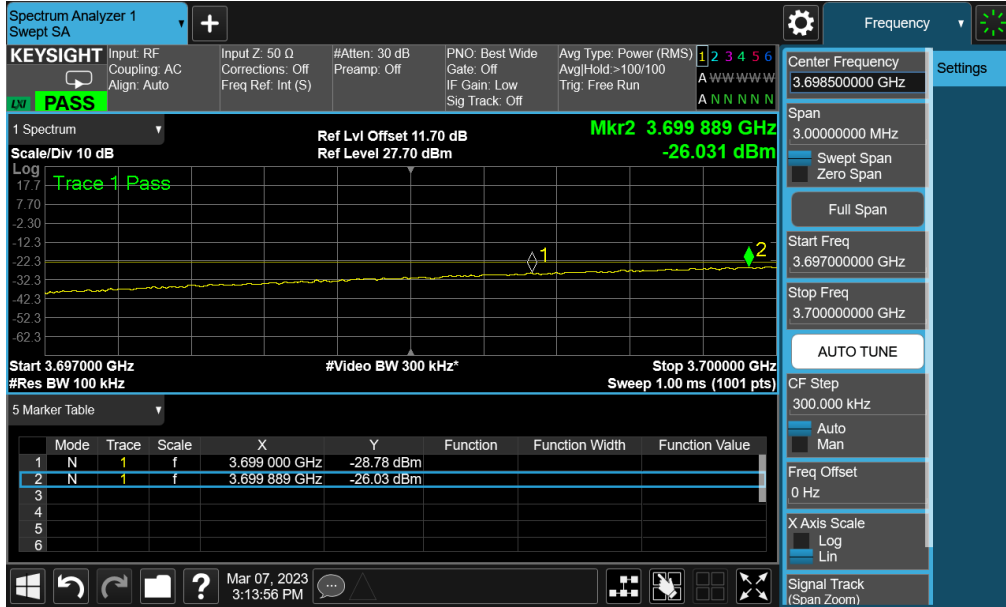


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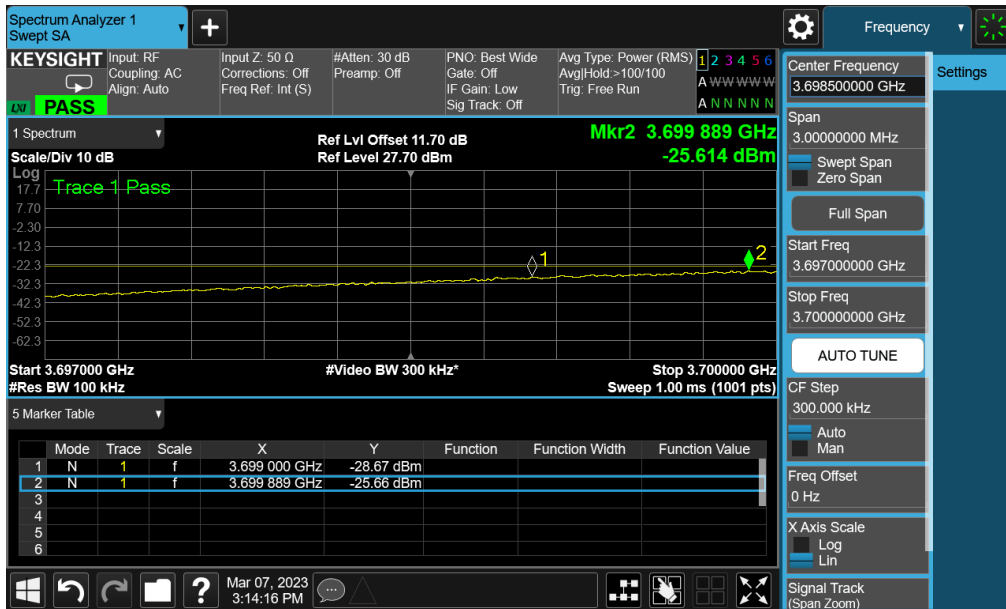
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_One signal input_Pre-AGC_Lower edge



Downlink_100MHz AWGN_One signal input_3dB above AGC_Lower edge

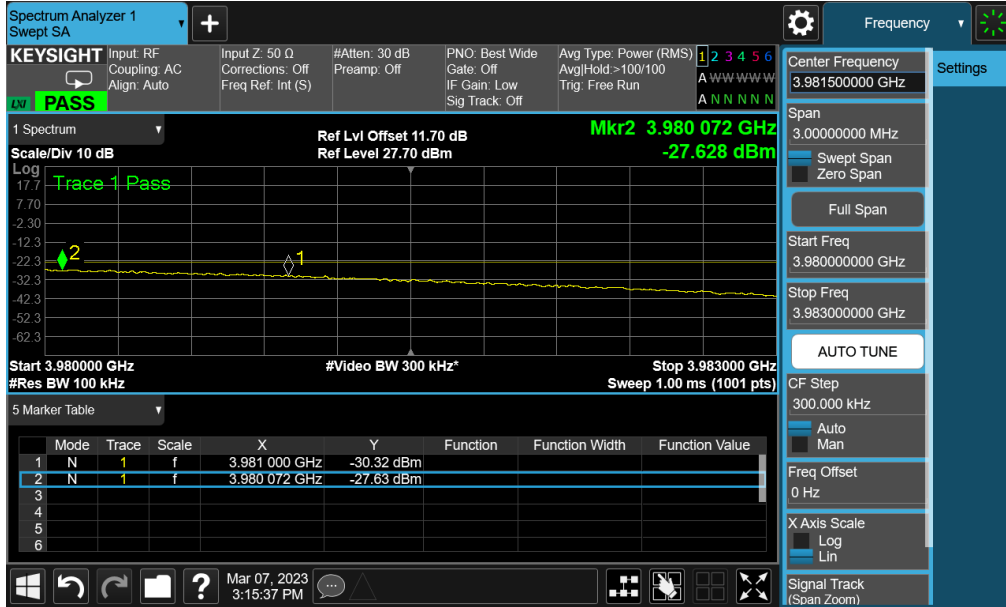


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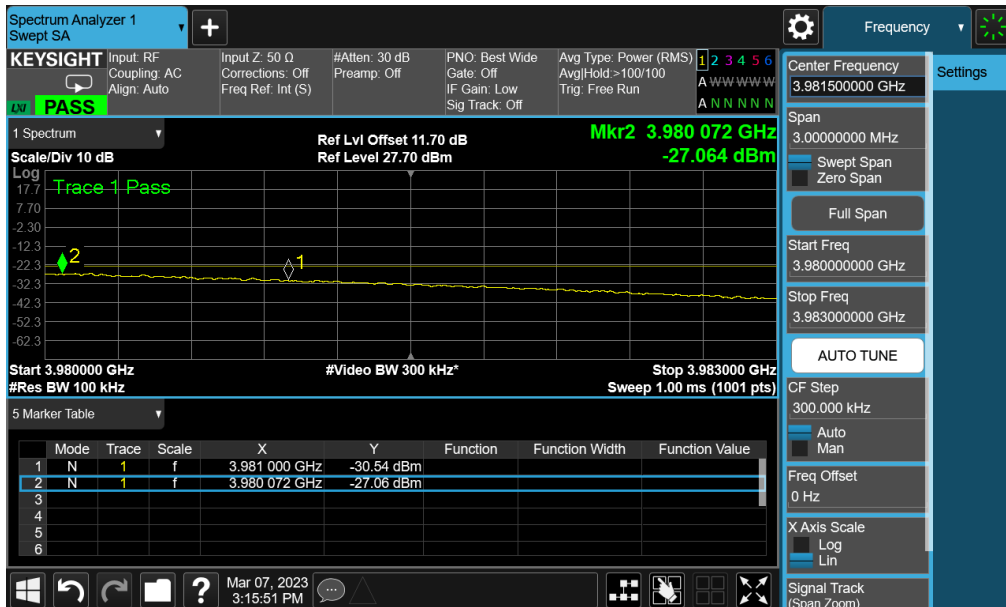
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_One signal input_Pre-AGC_Upper edge



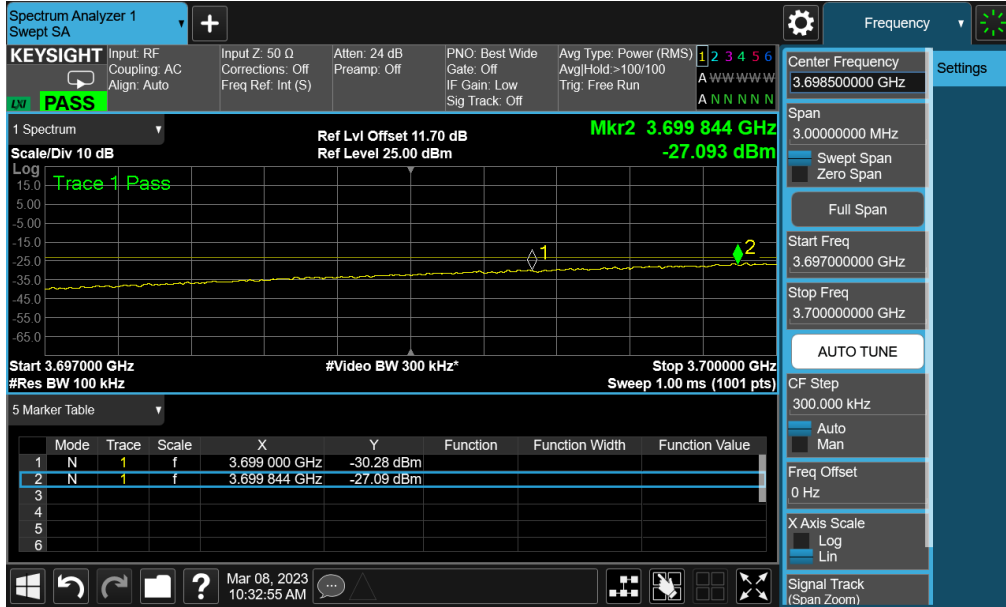
Downlink_100MHz AWGN_One signal input_3dB above AGC_Upper edge



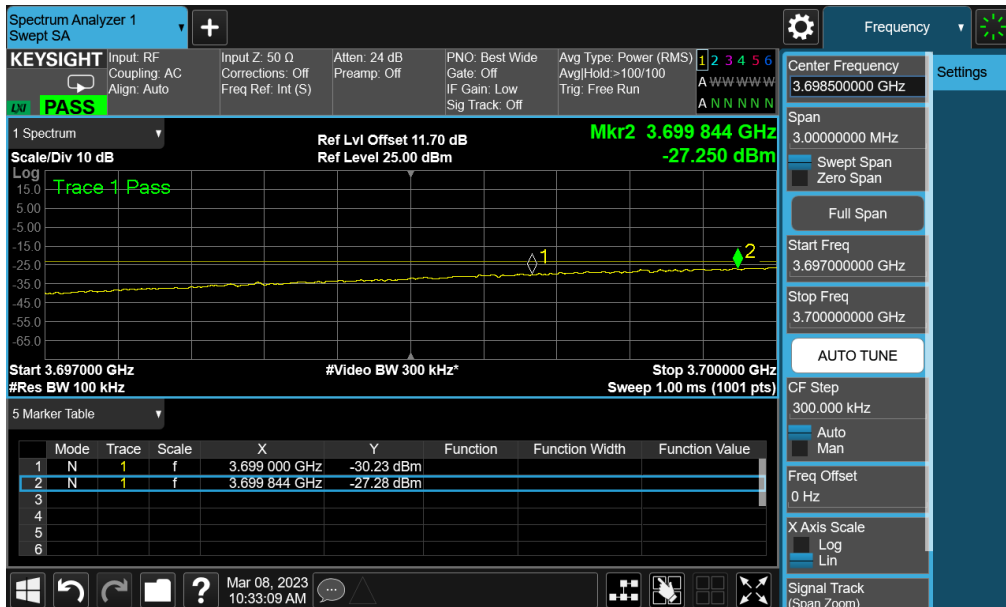
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_Two signals input_Pre-AGC_Lower edge



Downlink_100MHz AWGN_Two signals input_3dB above AGC_Lower edge

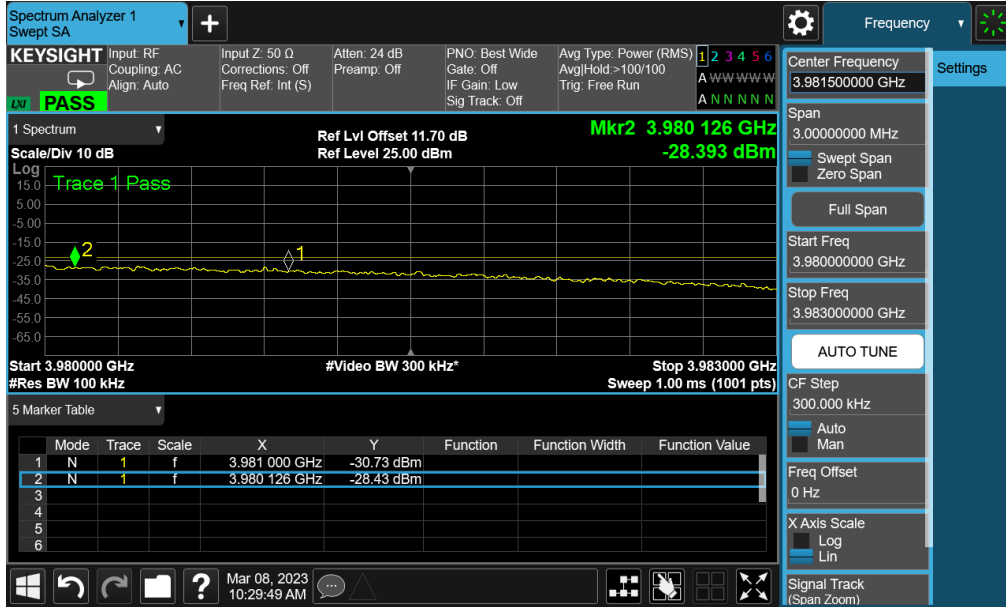


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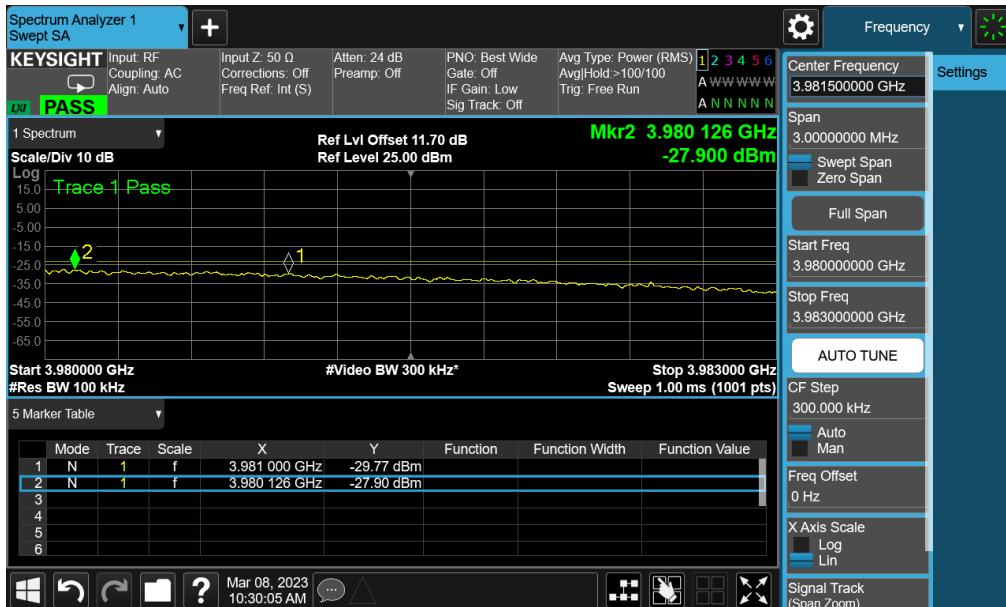
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Out-of-band/out-of-block emissions

Downlink_100MHz AWGN_Two signals input_Pre-AGC_Upper edge



Downlink_100MHz AWGN_Two signals input_3dB above AGC_Upper edge

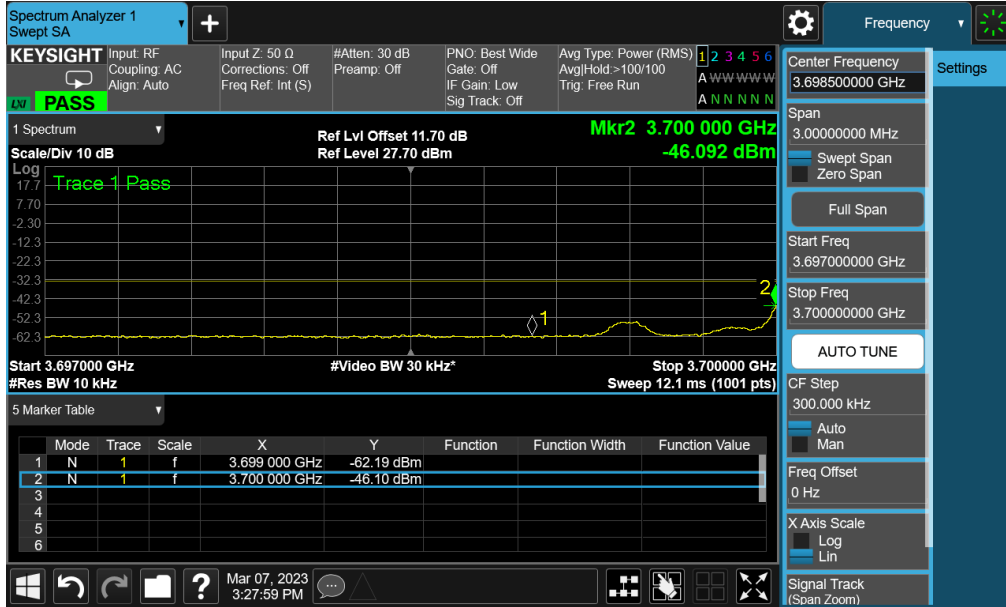


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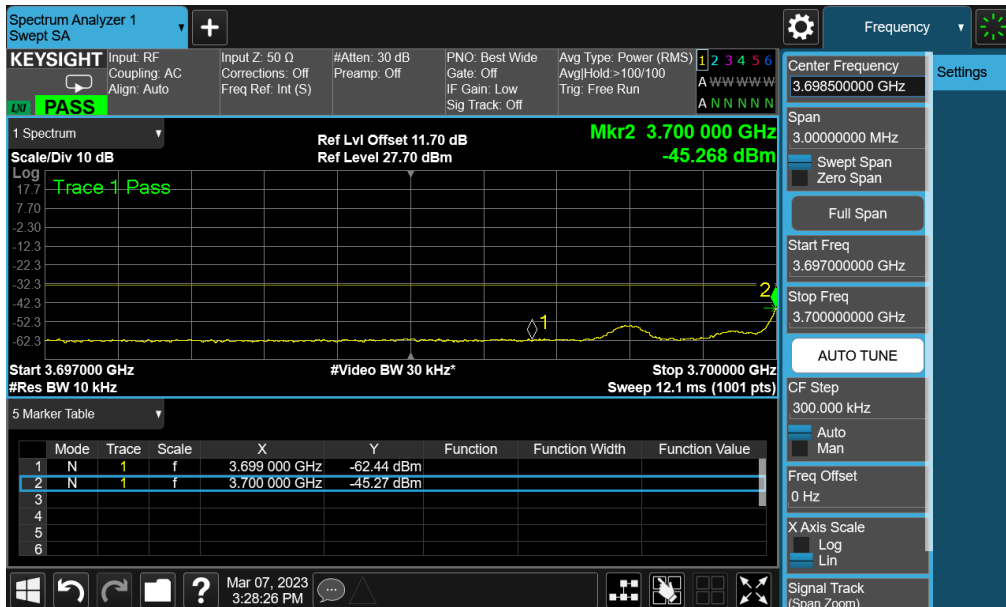
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Out-of-band/out-of-block emissions

Downlink_GSM_One signal input_Pre-AGC_Lower edge



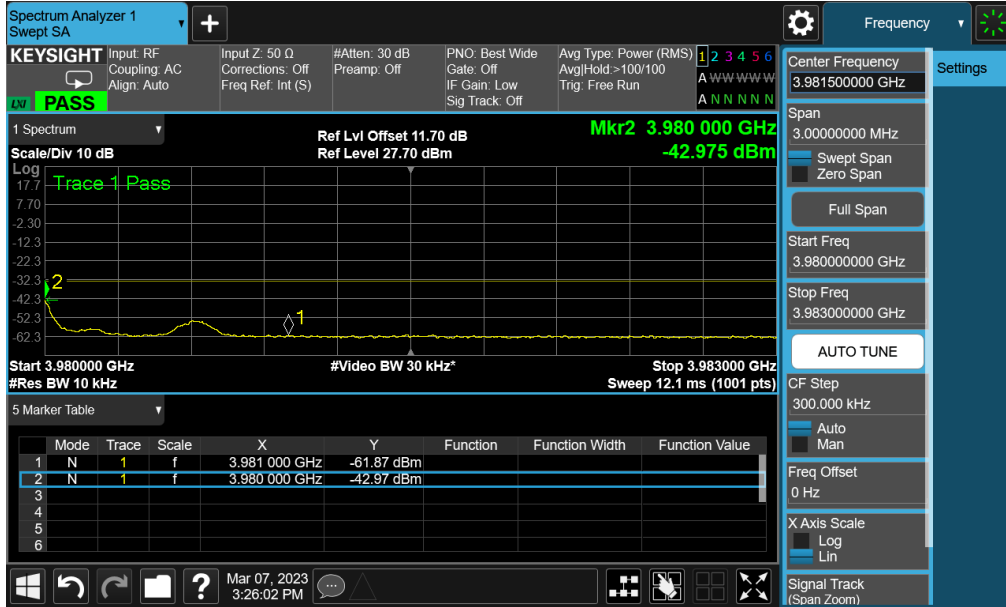
Downlink_GSM_One signal input_3dB above AGC_Lower edge



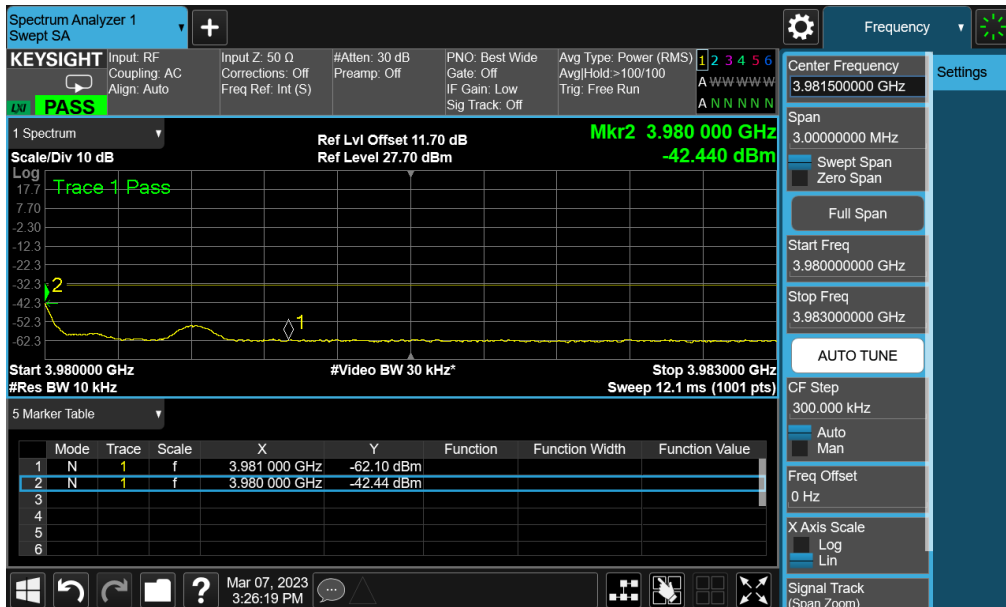
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Out-of-band/out-of-block emissions

Downlink_GSM_One signal input_Pre-AGC_Upper edge



Downlink_GSM_One signal input_3dB above AGC_Upper edge

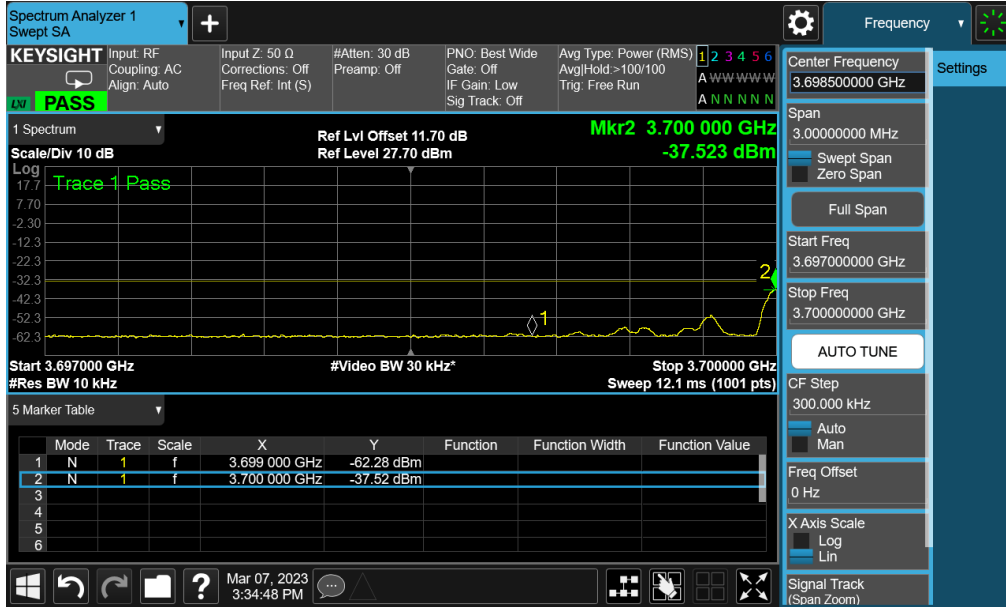


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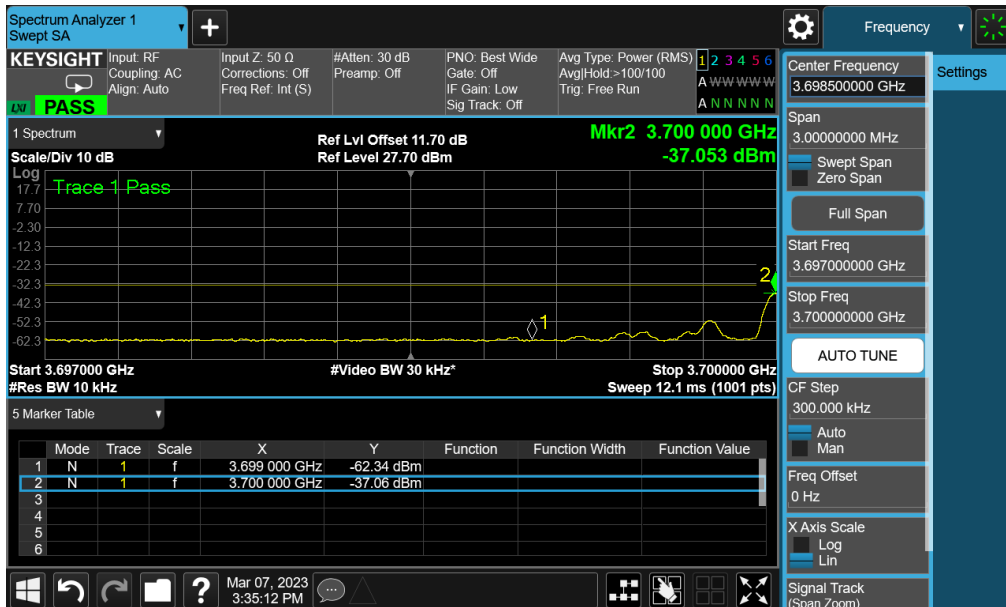
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Out-of-band/out-of-block emissions

Downlink_GSM_Two signals input_Pre-AGC_Lower edge



Downlink_GSM_Two signals input_3dB above AGC_Lower edge

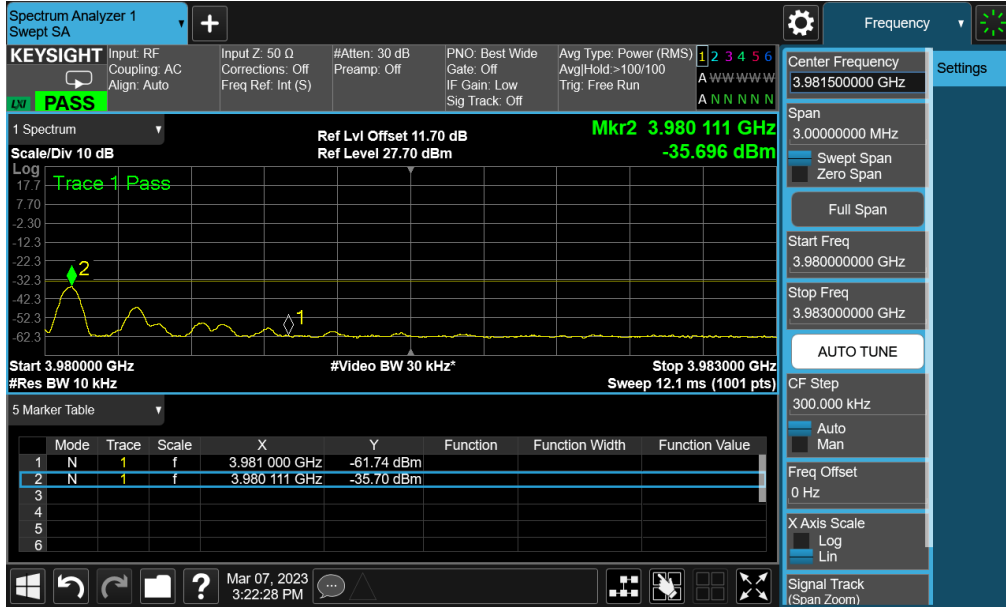


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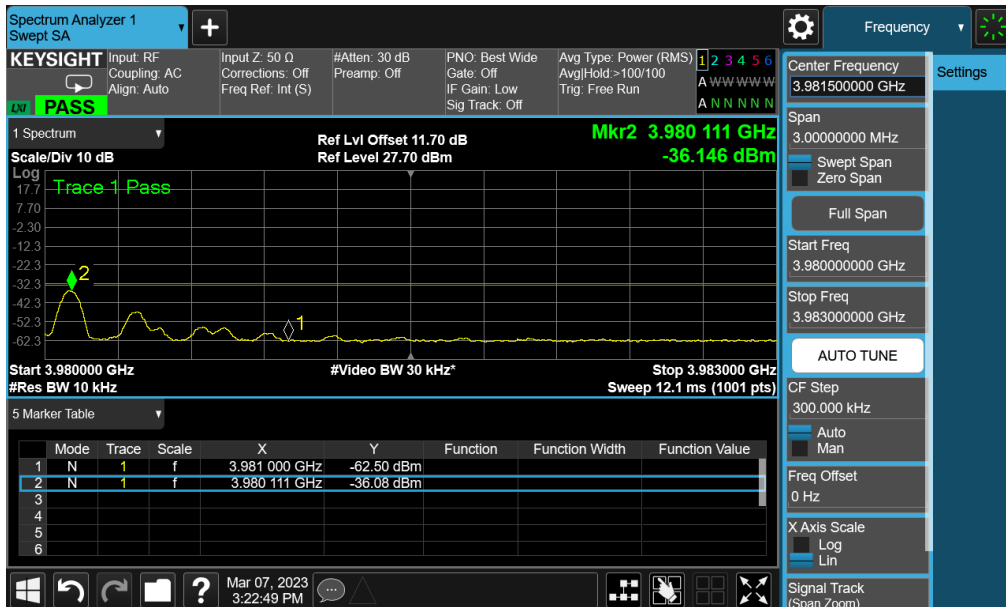
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Out-of-band/out-of-block emissions

Downlink_GSM_Two signals input_Pre-AGC_Upper edge



Downlink_GSM_Two signals input_3dB above AGC_Upper edge



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5 Conducted Spurious emissions

Conducted spurious emissions							
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst test level (dBm/MHz)	Limit (dBm/MHz)	Verdict
Downlink	High Channel	5MHz AWGN	Pre-AGC	0.009-1000	-31.23	≤-13	PASS
				1000-3699	-28.74	≤-13	PASS
				3981-40000	-26.93	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-30.13	≤-13	PASS
				1000-3699	-27.47	≤-13	PASS
				3981-40000	-25.47	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-29.78	≤-13	PASS
				1000-3699	-27.94	≤-13	PASS
				3981-40000	-26.65	≤-13	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	0.009-1000	-33.23	≤-13	PASS
				1000-3699	-28.78	≤-13	PASS
				3981-40000	-26.43	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-30.04	≤-13	PASS
				1000-3699	-28.83	≤-13	PASS
				3981-40000	-25.32	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-27.37	≤-13	PASS
				1000-3699	-29.54	≤-13	PASS
				3981-40000	-31.30	≤-13	PASS
	Low Channel	5MHz AWGN	Pre-AGC	0.009-1000	-30.47	≤-13	PASS
				1000-3699	-27.45	≤-13	PASS
				3981-40000	-29.38	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-31.21	≤-13	PASS
				1000-3699	-26.48	≤-13	PASS
				3981-40000	-25.38	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-30.73	≤-13	PASS
				1000-3699	-32.42	≤-13	PASS
				3981-40000	-27.46	≤-13	PASS



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6 Frequency Stability

Frequency stability vs temperature						
Test Path	Test Frequency (MHz)	Temperature (°C)	Voltage (V DC)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	3840	+50	48	21	0.0055	PASS
		+40	48	24	0.0063	PASS
		+30	48	18	0.0047	PASS
		+20	48	15	0.0039	PASS
		+10	48	25	0.0065	PASS
		0	48	30	0.0078	PASS
		-10	48	21	0.0055	PASS
		-20	48	19	0.0049	PASS
		-30	48	-15	-0.0039	PASS

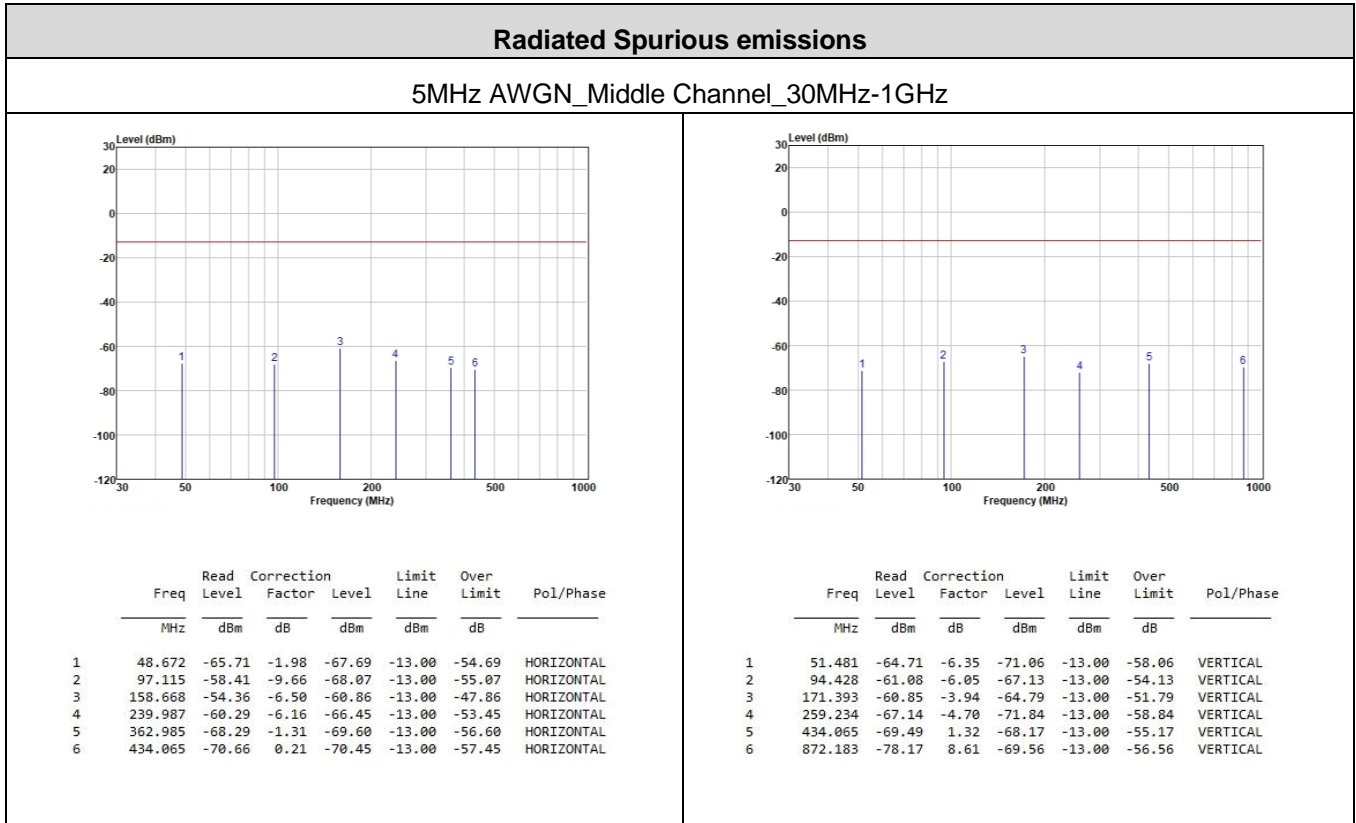
Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V DC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	3840	40.8	20	-15	-0.0039	PASS
		55.2	20	-24	-0.0063	PASS



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7 Radiated Spurious emissions

All modes (Lowest/Middle/Highest Channels, 5MHz AWGN input signal/100MHz AWGN input signal / GSM input signal) have been tested and only the worst test result was recorded in this report.

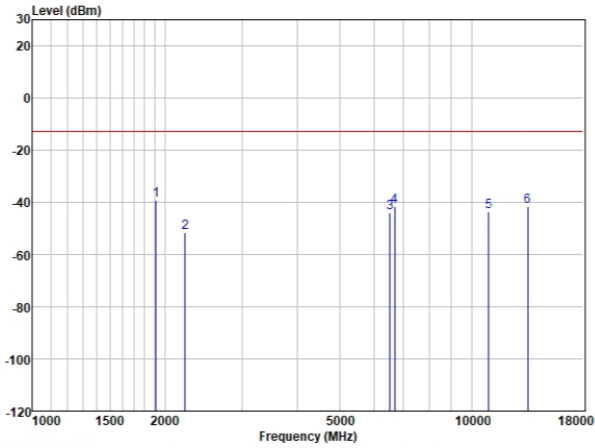


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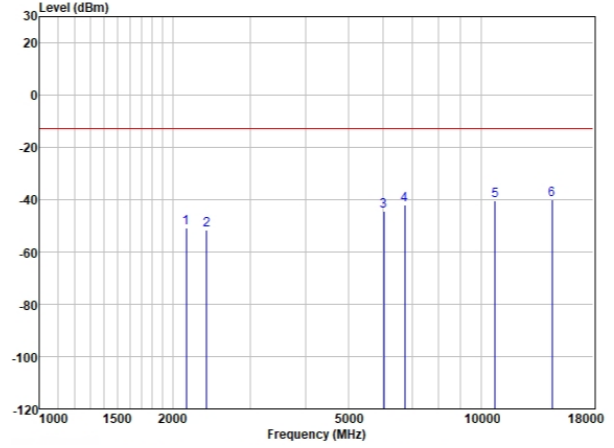
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Radiated Spurious emissions

5MHz AWGN_Middle Channel_above 1GHz



	Freq	Read	Correction	Limit	Over	Pol/Phase	
	MHz	Level	Factor	Line	Limit		
		dBm	dB	dBm	dB		
1	1910.650	-45.95	6.73	-39.22	-13.00	-26.22	HORIZONTAL
2	2226.950	-60.75	9.32	-51.43	-13.00	-38.43	HORIZONTAL
3	6526.373	-63.86	19.88	-43.98	-13.00	-30.98	HORIZONTAL
4	6679.040	-61.74	20.25	-41.49	-13.00	-28.49	HORIZONTAL
5	10948.780	-67.60	24.05	-43.55	-13.00	-30.55	HORIZONTAL
6	13442.810	-69.50	28.04	-41.46	-13.00	-28.46	HORIZONTAL



	Freq	Read	Correction	Limit	Over	Pol/Phase	
	MHz	Level	Factor	Line	Limit		
		dBm	dB	dBm	dB		
1	2151.034	-60.08	9.28	-50.80	-13.00	-37.80	VERTICAL
2	2386.915	-61.34	9.90	-51.44	-13.00	-38.44	VERTICAL
3	6018.999	-63.76	19.55	-44.21	-13.00	-31.21	VERTICAL
4	6717.762	-62.86	20.83	-42.03	-13.00	-29.03	VERTICAL
5	10760.540	-65.07	24.78	-40.29	-13.00	-27.29	VERTICAL
6	14491.960	-67.53	27.72	-39.81	-13.00	-26.81	VERTICAL

--End of Appendix--



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