

# Appendix -

## Test Data and Result for report

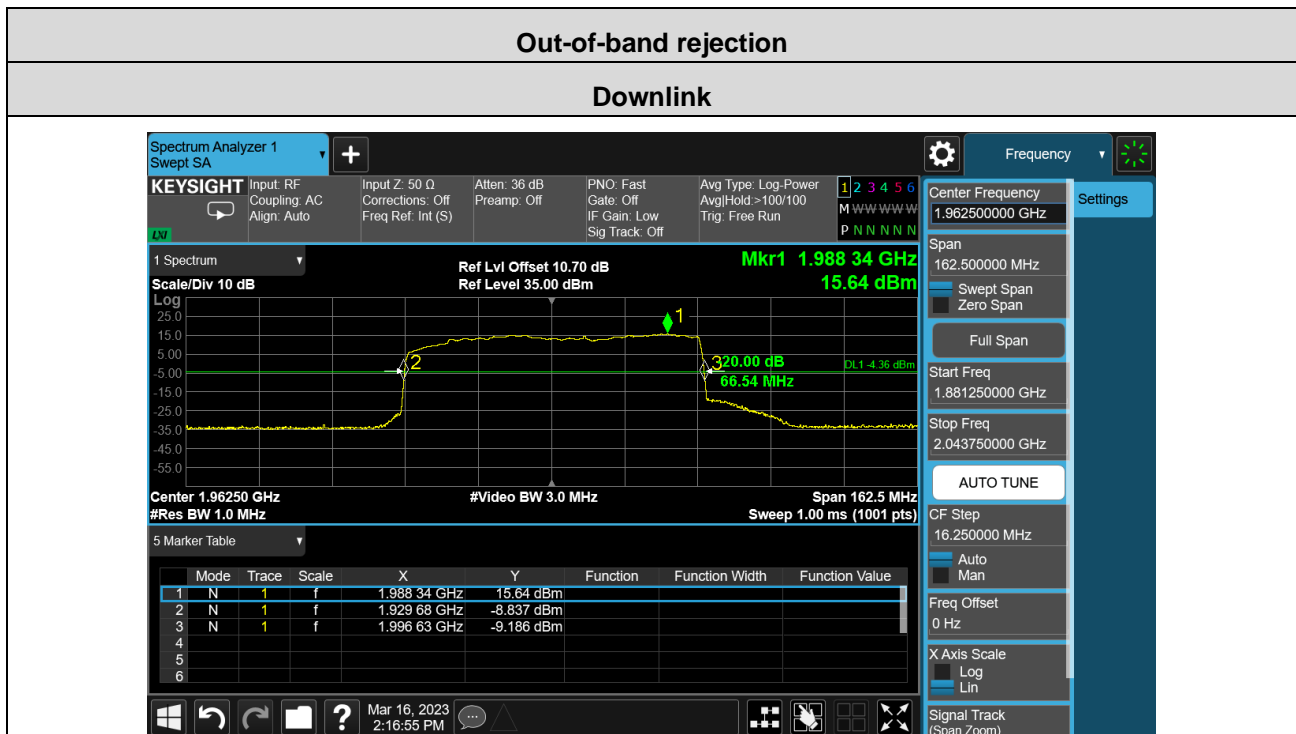
### GZCR230300022306

(Broadband PCS band)



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## 1 Out-of-band rejection



The peak of the frequency response  $f_0$  is 1988.34MHz. 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.



## 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
Remark: *: The Broadband PCS band supports maximum channel BW is 20MHz @ NR, so the output OBW was less than the input when 100MHz AWGN was as stimulus signal.				



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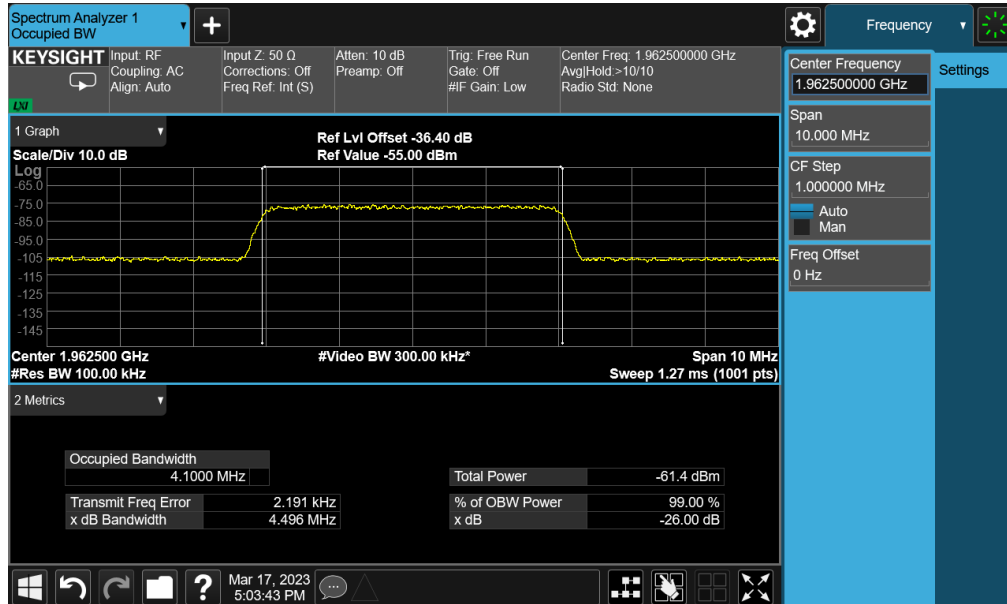
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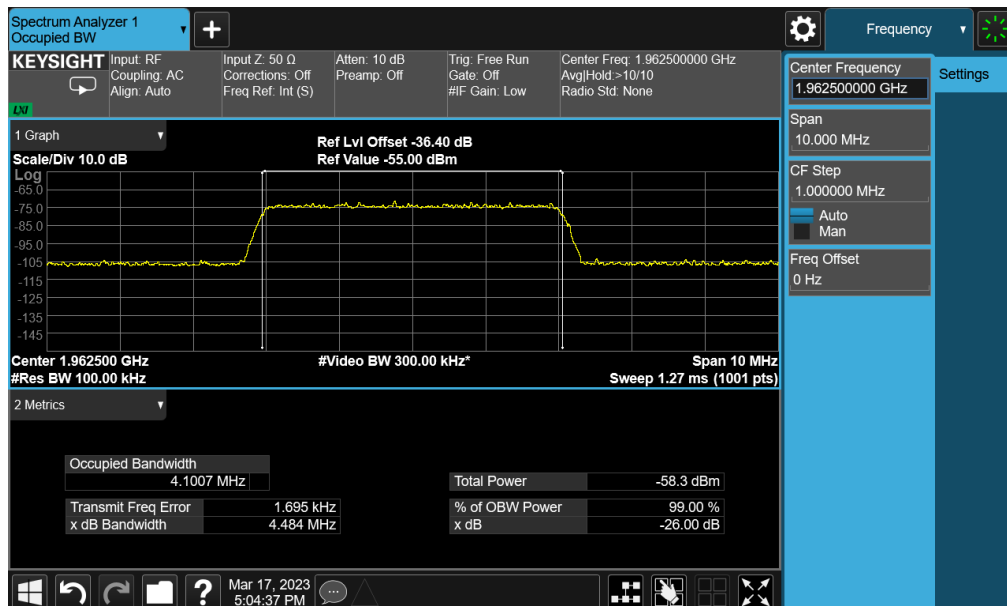
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### 99% OBW

#### Downlink\_5MHz AWGN\_Middle Channel\_Input pre-AGC

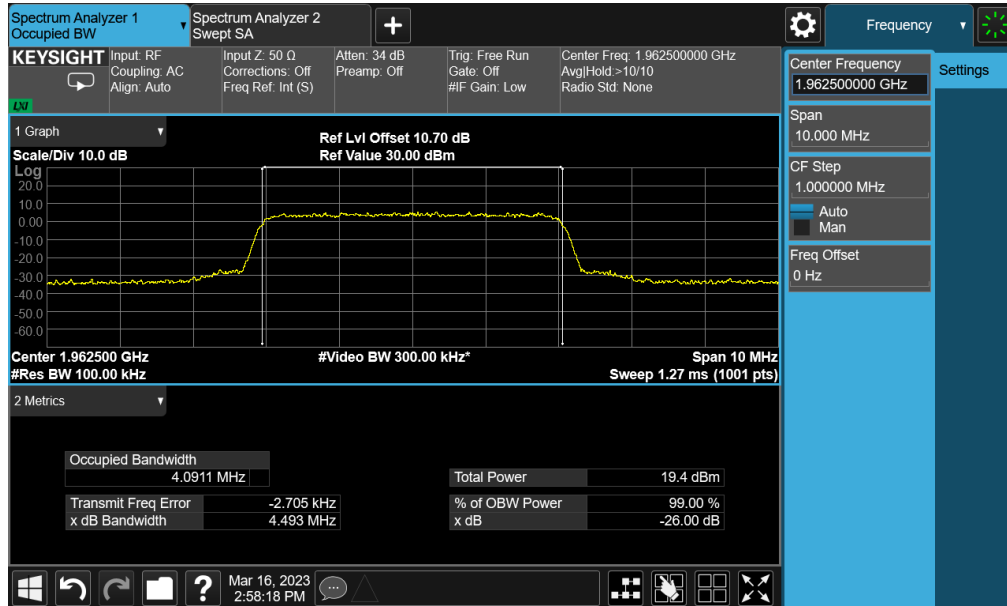


#### Downlink\_5MHz AWGN\_Middle Channel\_Input 3dB above AGC

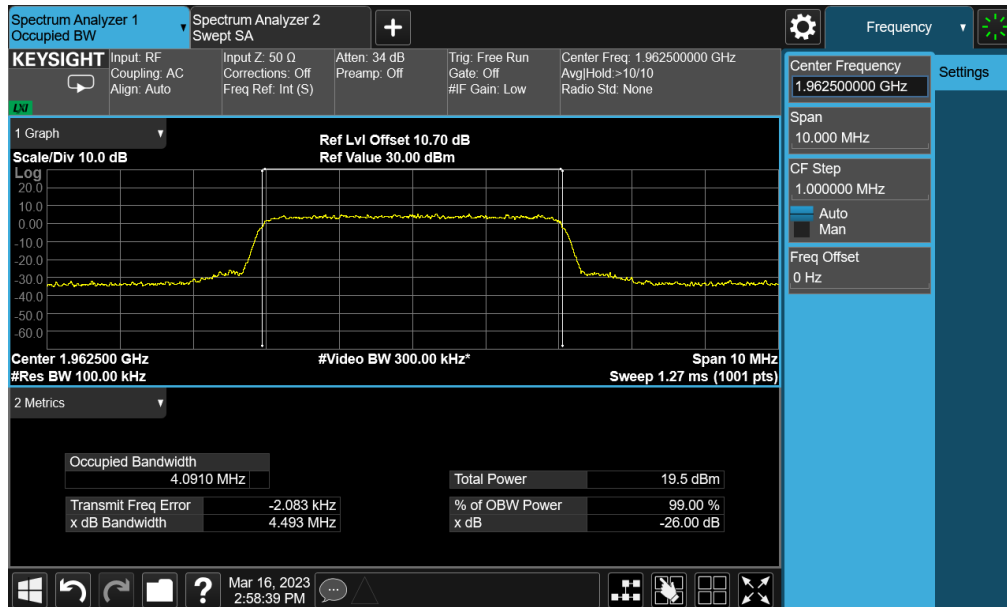


### 99% OBW

#### Downlink\_5MHz AWGN\_Middle Channel\_Output pre-AGC



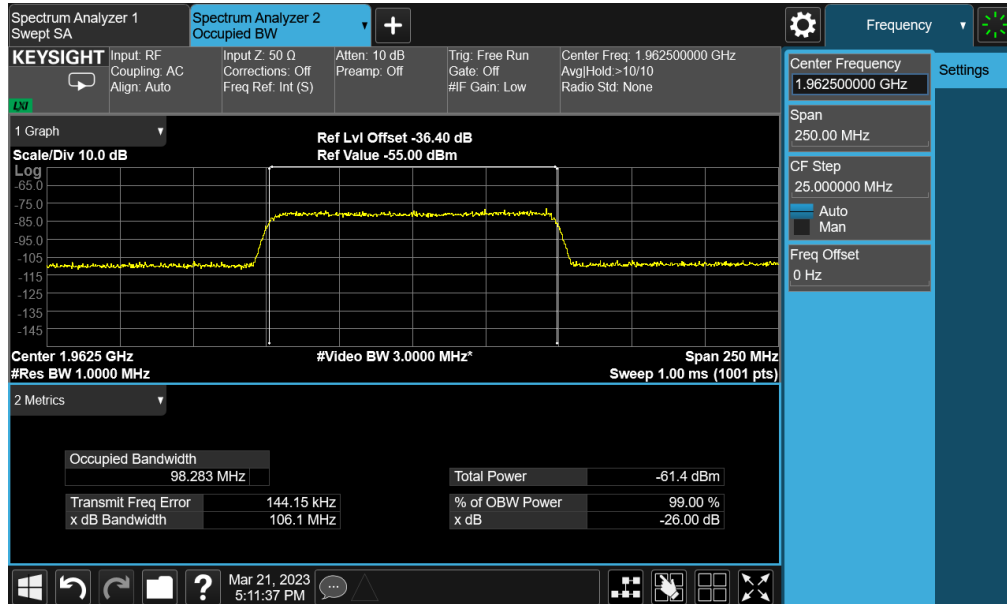
#### Downlink\_5MHz AWGN\_Middle Channel\_Output 3dB above AGC



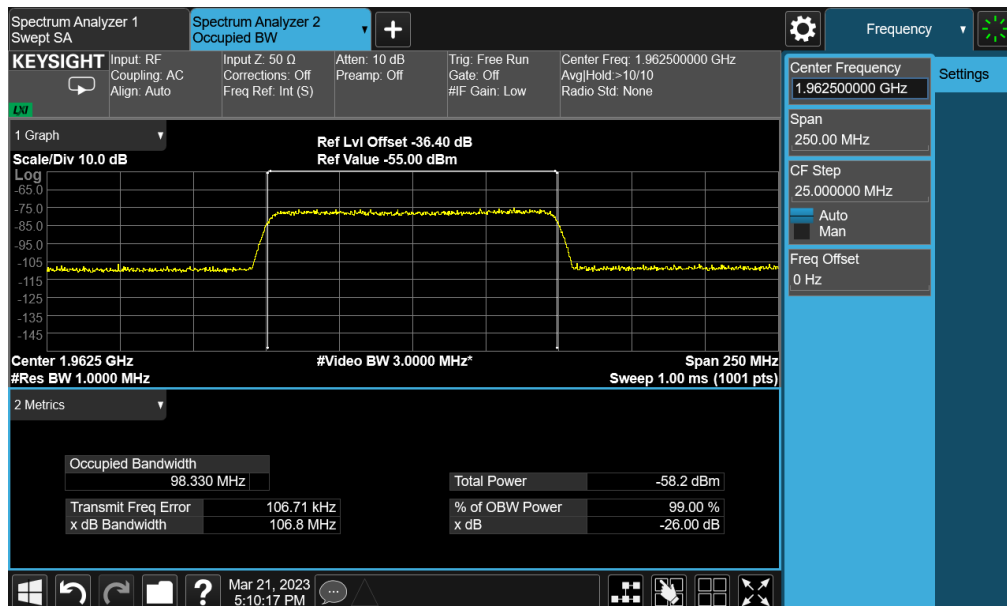


### 99% OBW

#### Downlink\_100MHz AWGN\_Middle Channel\_Input pre-AGC

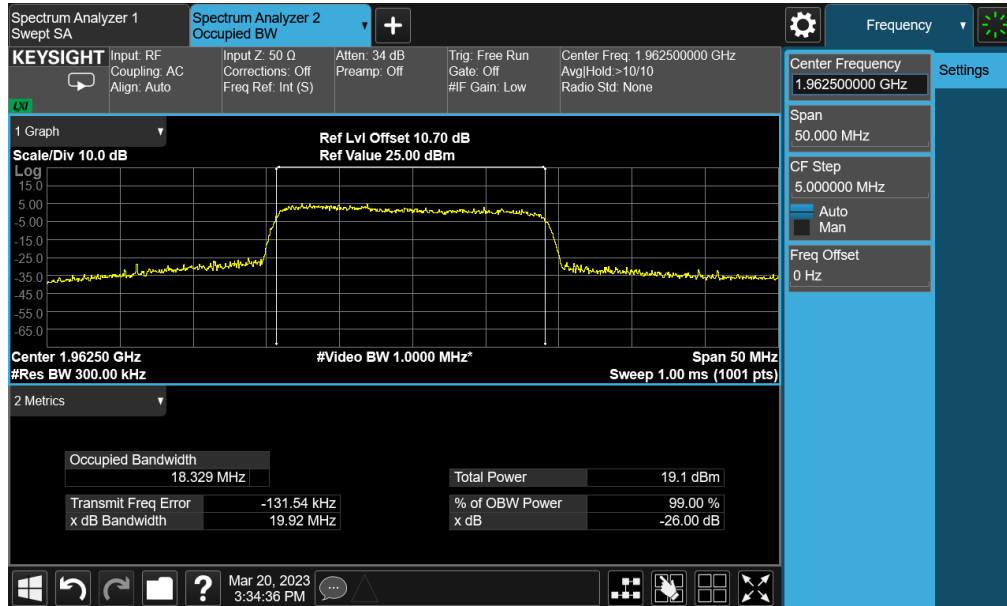


#### Downlink\_100MHz AWGN\_Middle Channel\_Input 3dB above AGC

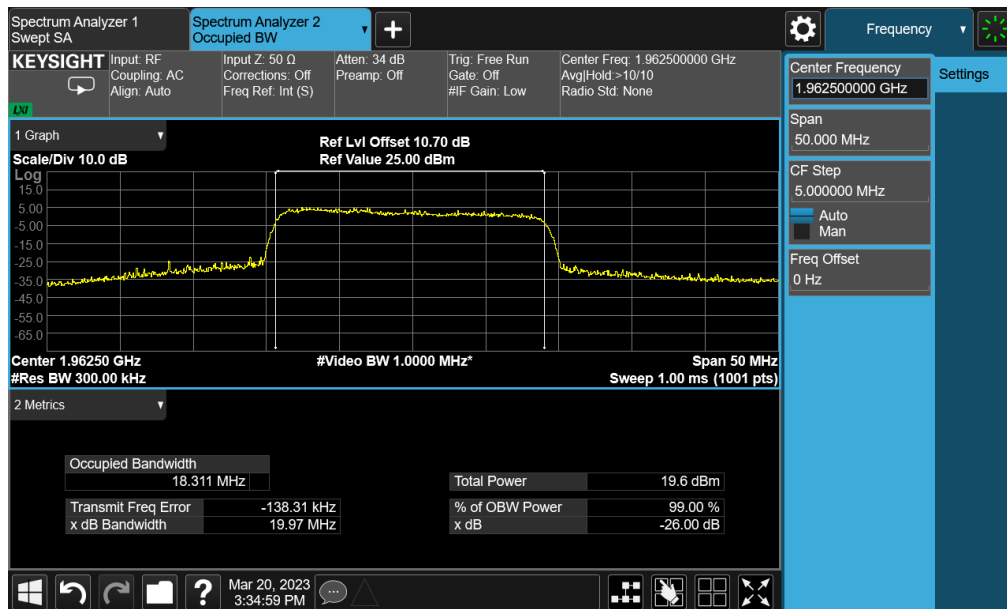


### 99% OBW

#### Downlink\_100MHz AWGN\_Middle Channel\_Output pre-AGC

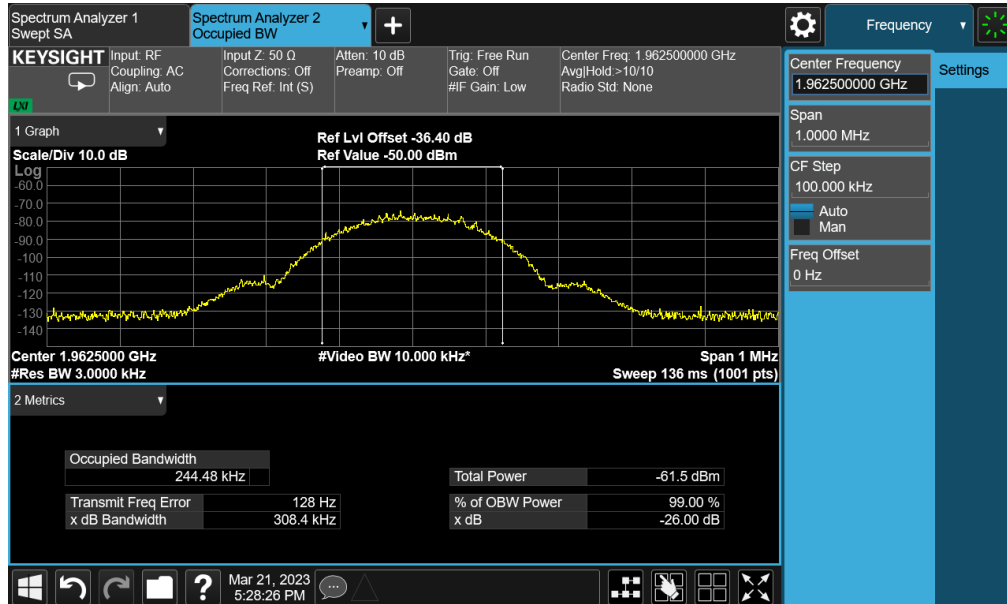


#### Downlink\_100MHz AWGN\_Middle Channel\_Output 3dB above AGC

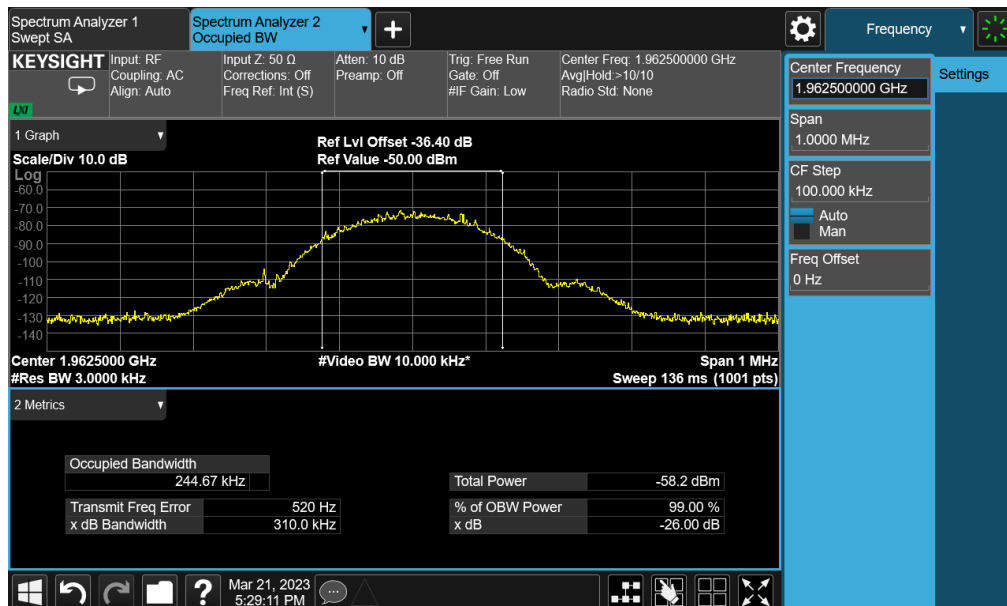


### 99% OBW

#### Downlink\_GSM\_Middle Channel\_Input pre-AGC



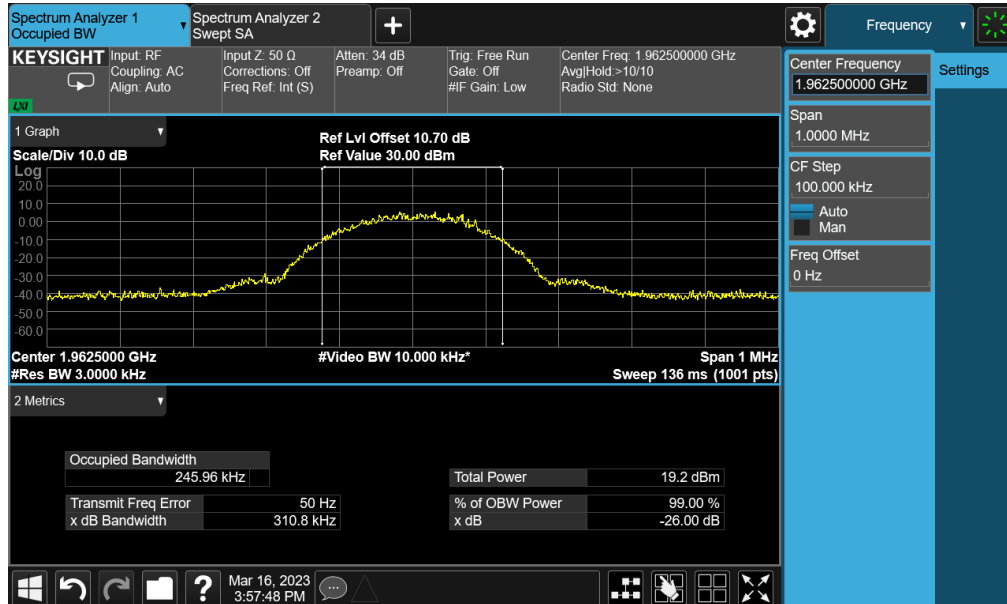
#### Downlink\_GSM\_Middle Channel\_Input 3dB above AGC



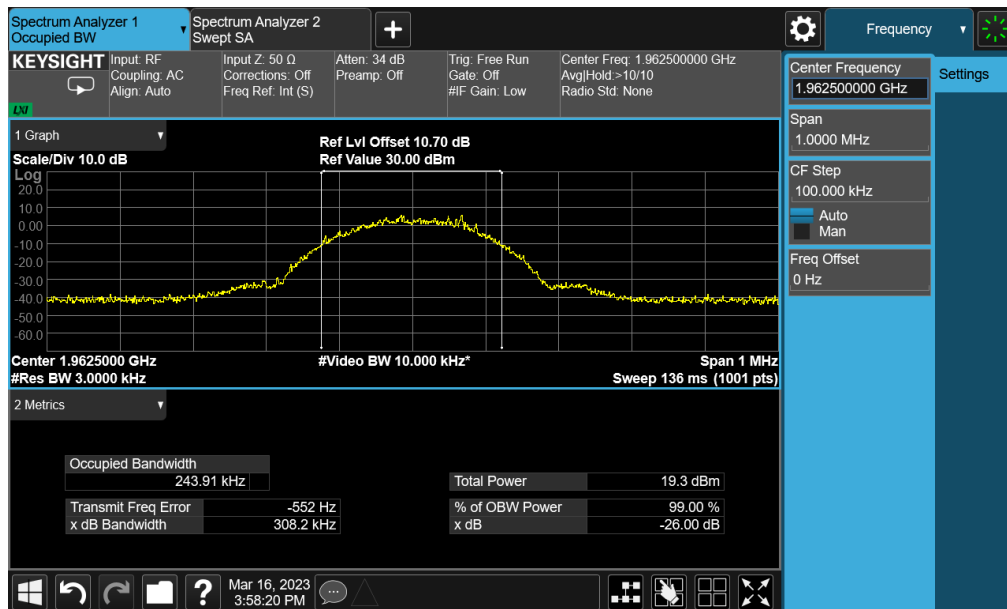


### 99% OBW

#### Downlink\_GSM\_Middle Channel\_Output pre-AGC



#### Downlink\_GSM\_Middle Channel\_Output 3dB above AGC



## 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	1988.34	5MHz AWGN	Pre-AGC	-60.00	19.19	0.21	79.19
			3dB above AGC	-57.00	19.33	0.22	/
		100MHz AWGN	Pre-AGC	-60.00	12.66	0.05	72.66
			3dB above AGC	-57.00	12.53	0.05	/
		GSM	Pre-AGC	-60.00	20.44	0.28	80.44
			3dB above AGC	-57.00	20.21	0.27	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 4dBi 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	1988.34	5MHz AWGN	Pre-AGC	13.05	0.0507	PASS
			3dB above AGC	13.52	0.0565	PASS
		100MHz AWGN	Pre-AGC	-4.35	0.0010	PASS
			3dB above AGC	-4.13	0.0010	PASS
		GSM	Pre-AGC	20.12	0.26	PASS
			3dB above AGC	20.31	0.27	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 4dBi 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	1988.34	5MHz AWGN	Pre-AGC	7.12	≤13	PASS
			3dB above AGC	7.73		PASS
		100MHz AWGN	Pre-AGC	7.46		PASS
			3dB above AGC	7.53		PASS
		GSM	Pre-AGC	0.33		PASS
			3dB above AGC	0.31		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 (dBm)	Limit (dBm)	Verdict
Downlink	lower edge	5MHz AWGN	One signal input	Pre-AGC	-33.30	≤-13	PASS
				3dB above AGC	-33.81		PASS
			Two signals input	Pre-AGC	-32.23		PASS
				3dB above AGC	-31.63		PASS
	upper edge		One signal input	Pre-AGC	-15.72		PASS
				3dB above AGC	-15.53		PASS
			Two signals input	Pre-AGC	-16.67		PASS
				3dB above AGC	-16.92		PASS
Remark: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, Rated power P = 19dBm = 0.08W, so the limit = 19dBm – [43 + 10 log10 (0.08W)] dB = -13dBm							

Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
Downlink	lower edge	100MHz AWGN	One signal input	Pre-AGC	-28.08	≤-13	PASS
				3dB above AGC	-27.37		PASS
			Two signals input	Pre-AGC	-25.86		PASS
				3dB above AGC	-26.09		PASS
	upper edge		One signal input	Pre-AGC	-22.54		PASS
				3dB above AGC	-22.33		PASS
			Two signals input	Pre-AGC	-21.40		PASS
				3dB above AGC	-21.74		PASS
Remark: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, Rated power P = 19dBm = 0.08W, so the limit = 19dBm – [43 + 10 log10 (0.08W)] dB = -13dBm							



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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 (dBm)	Limit (dBm)	Verdict
Downlink	lower edge	GSM	One signal input	Pre-AGC	-45.65	≤-13	PASS
				3dB above AGC	-45.11		PASS
			Two signals input	Pre-AGC	-30.12		PASS
				3dB above AGC	-29.71		PASS
	upper edge		One signal input	Pre-AGC	-39.12		PASS
				3dB above AGC	-39.34		PASS
			Two signals input	Pre-AGC	-37.21		PASS
				3dB above AGC	-37.05		PASS
Remark: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, Rated power P = 19dBm = 0.08W, so the limit = 19dBm – [43 + 10 log10 (0.08W)] dB = -13dBm							



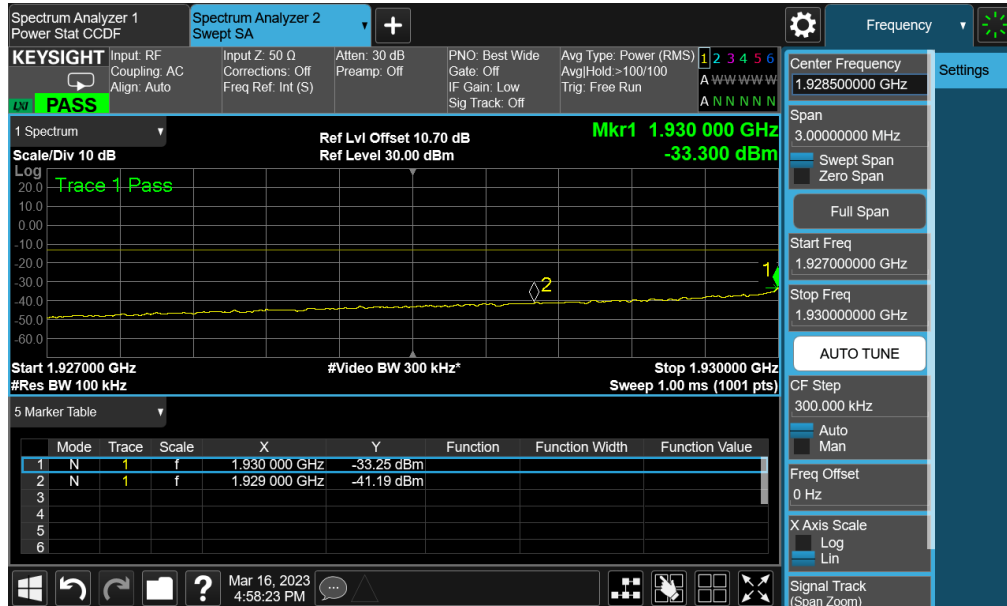
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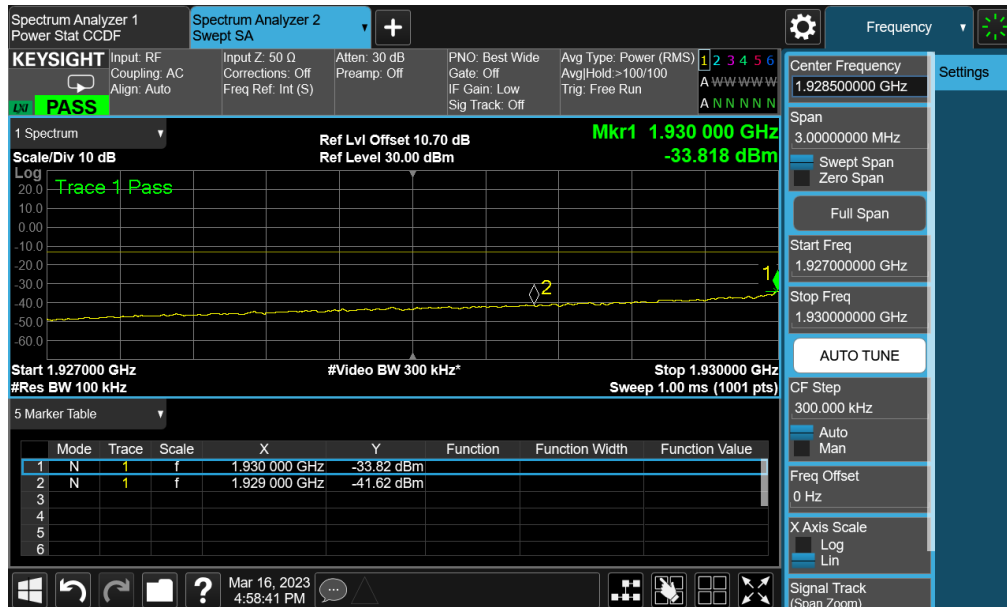


### Out-of-band/out-of-block emissions

#### Downlink\_5MHz AWGN\_One signal input\_Pre-AGC\_Lower edge

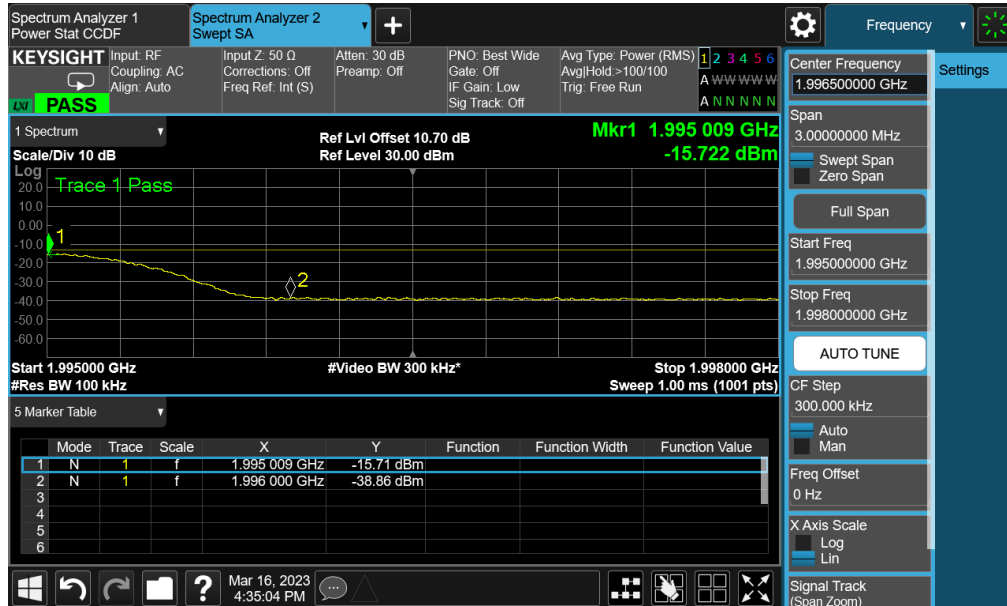


#### Downlink\_5MHz AWGN\_One signal input\_3dB above AGC\_Lower edge

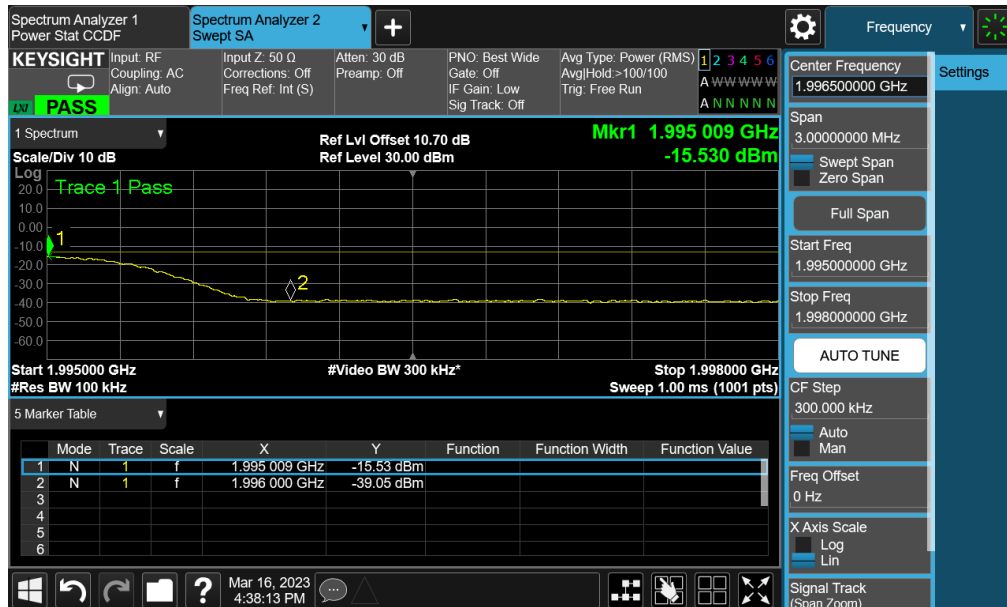


### Out-of-band/out-of-block emissions

#### Downlink\_5MHz AWGN\_One signal input\_Pre-AGC\_Upper edge

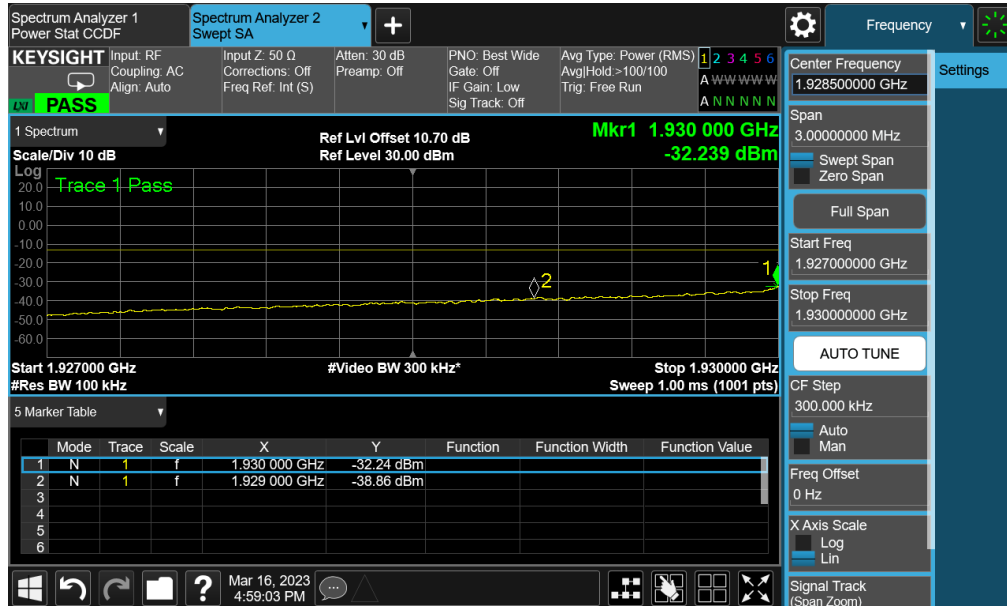


#### Downlink\_5MHz AWGN\_One signal input\_3dB above AGC\_Upper edge

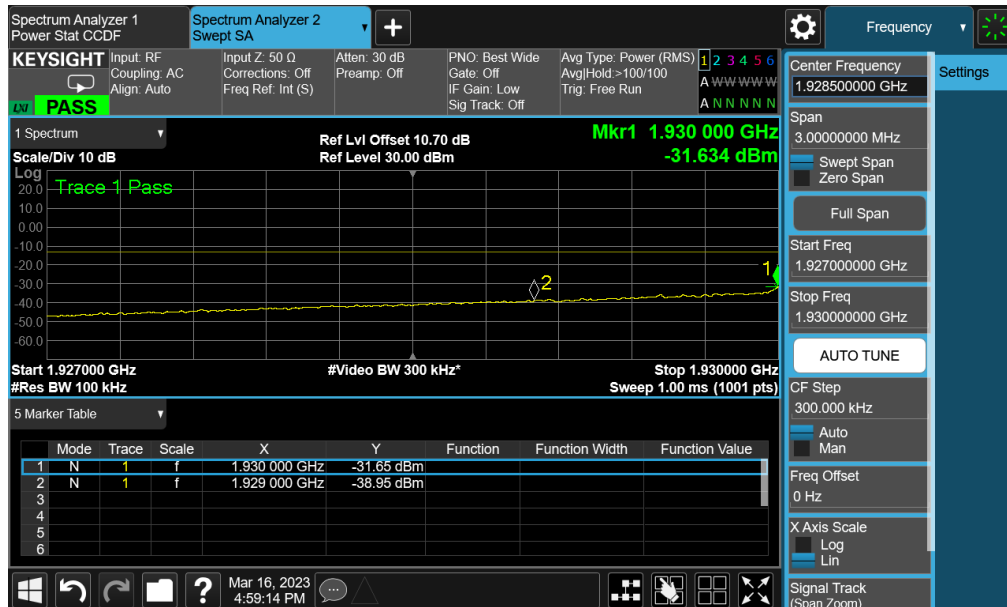


### Out-of-band/out-of-block emissions

#### Downlink\_5MHz AWGN\_Two signals input\_Pre-AGC\_Lower edge

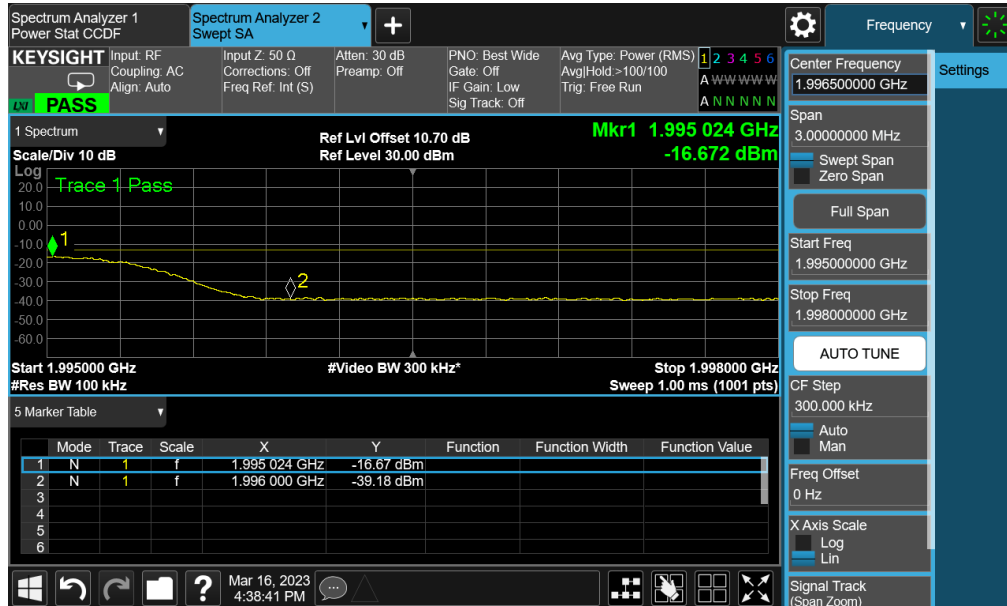


#### Downlink\_5MHz AWGN\_Two signals input\_3dB above AGC\_Lower edge

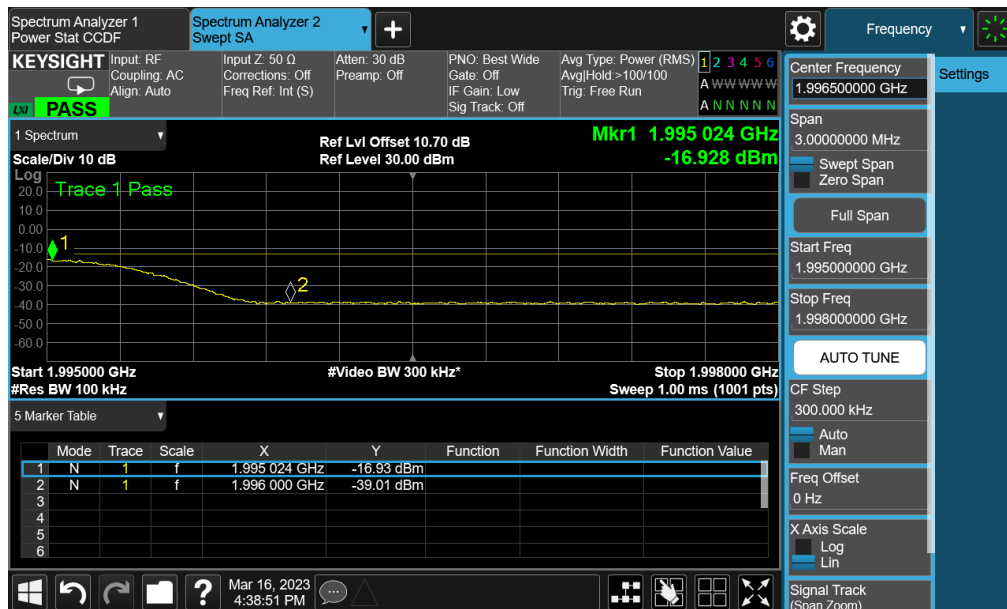


### Out-of-band/out-of-block emissions

#### Downlink\_5MHz AWGN\_Two signals input\_Pre-AGC\_Upper edge



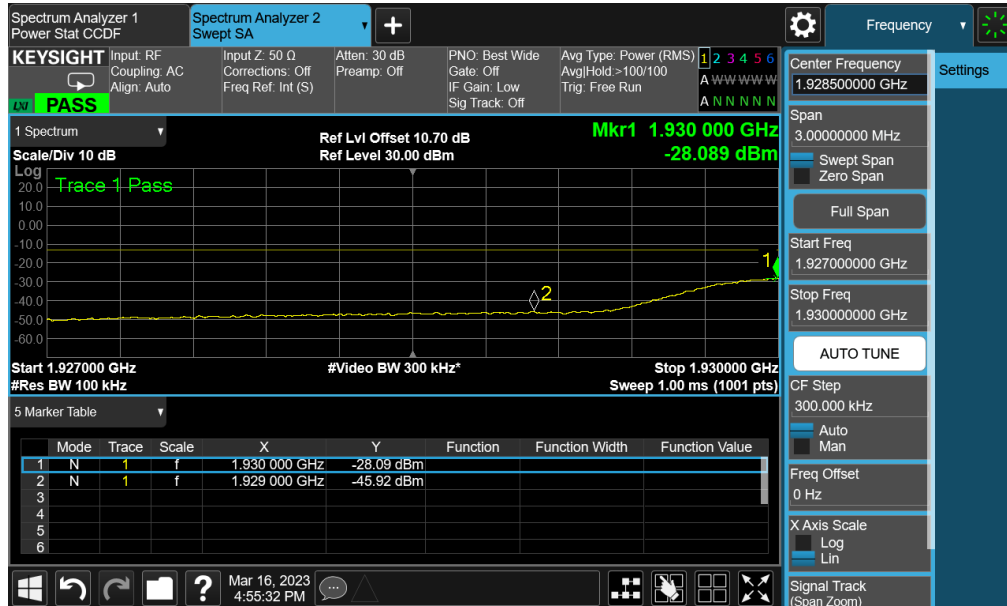
#### Downlink\_5MHz AWGN\_Two signals input\_3dB above AGC\_Upper edge



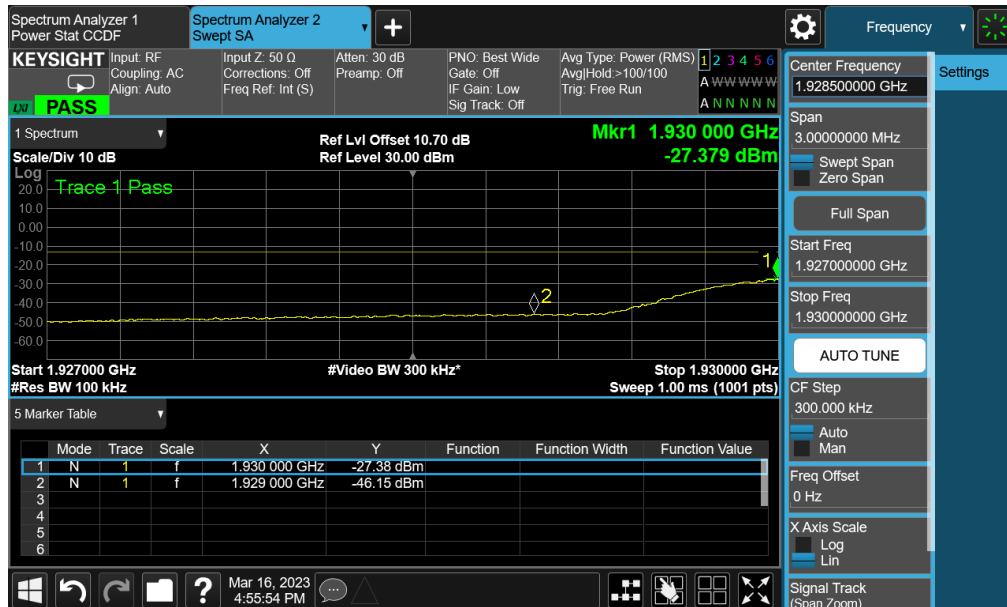


### Out-of-band/out-of-block emissions

#### Downlink\_100MHz AWGN\_One signal input\_Pre-AGC\_Lower edge



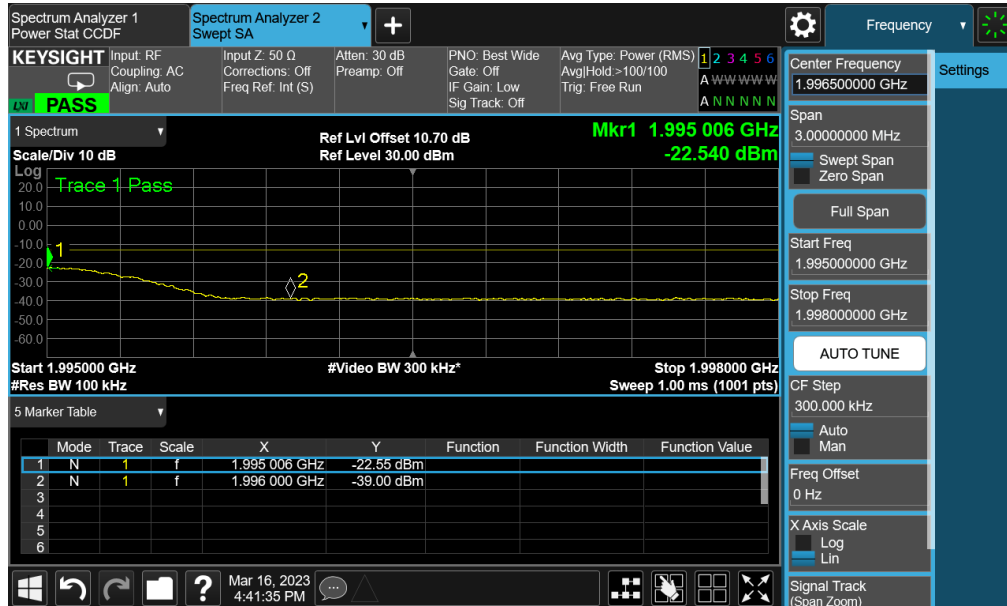
#### Downlink\_100MHz AWGN\_One signal input\_3dB above AGC\_Lower edge



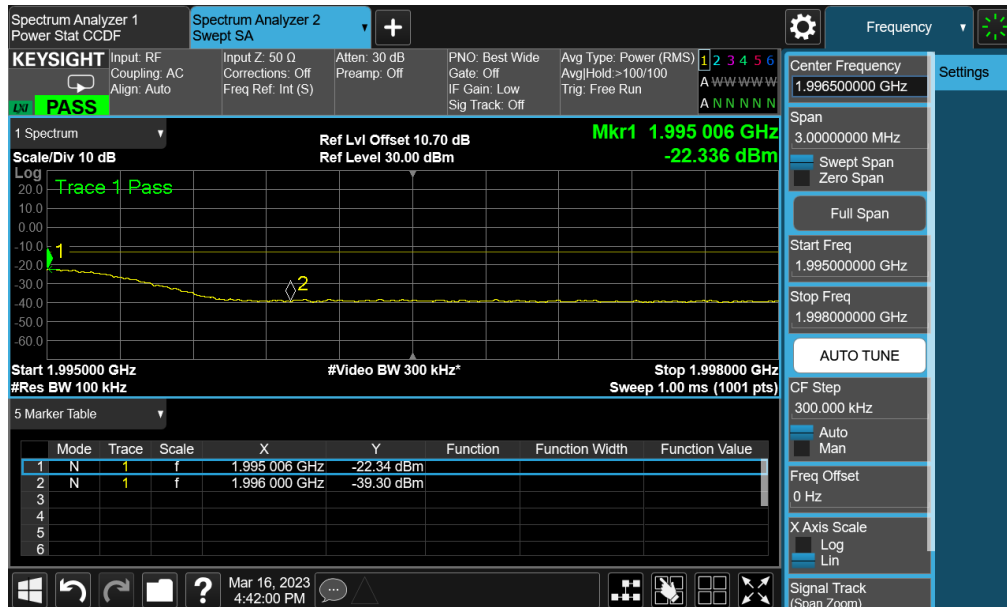


### Out-of-band/out-of-block emissions

#### Downlink\_100MHz AWGN\_One signal input\_Pre-AGC\_Upper edge

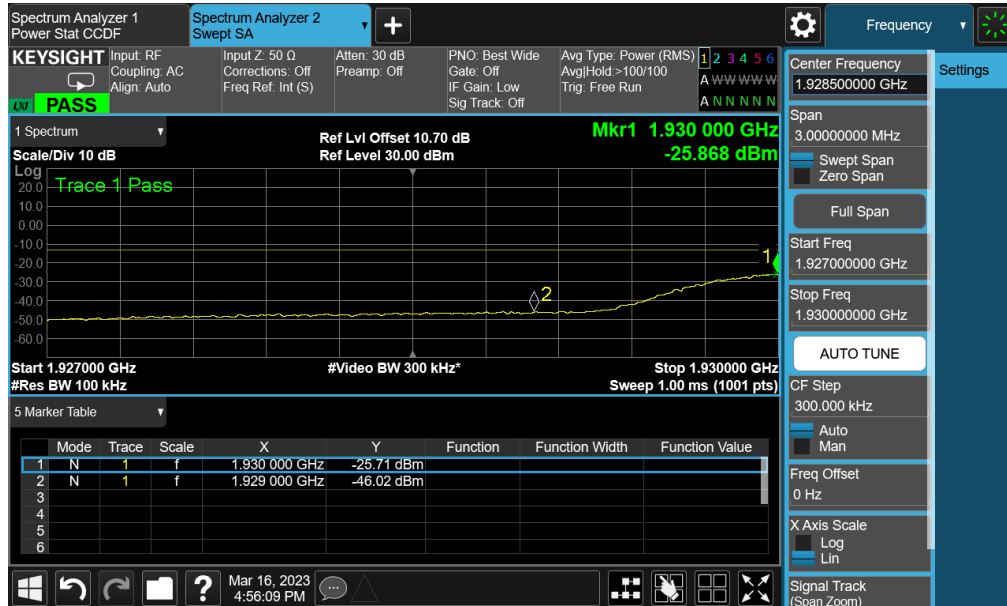


#### Downlink\_100MHz AWGN\_One signal input\_3dB above AGC\_Upper edge

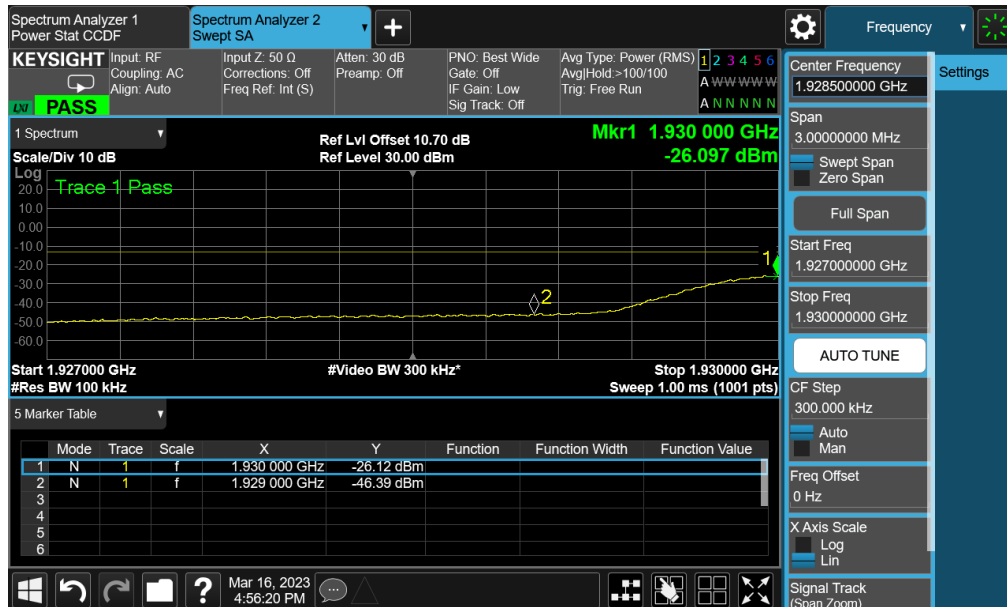


### Out-of-band/out-of-block emissions

#### Downlink\_100MHz AWGN\_Two signals input\_Pre-AGC\_Lower edge

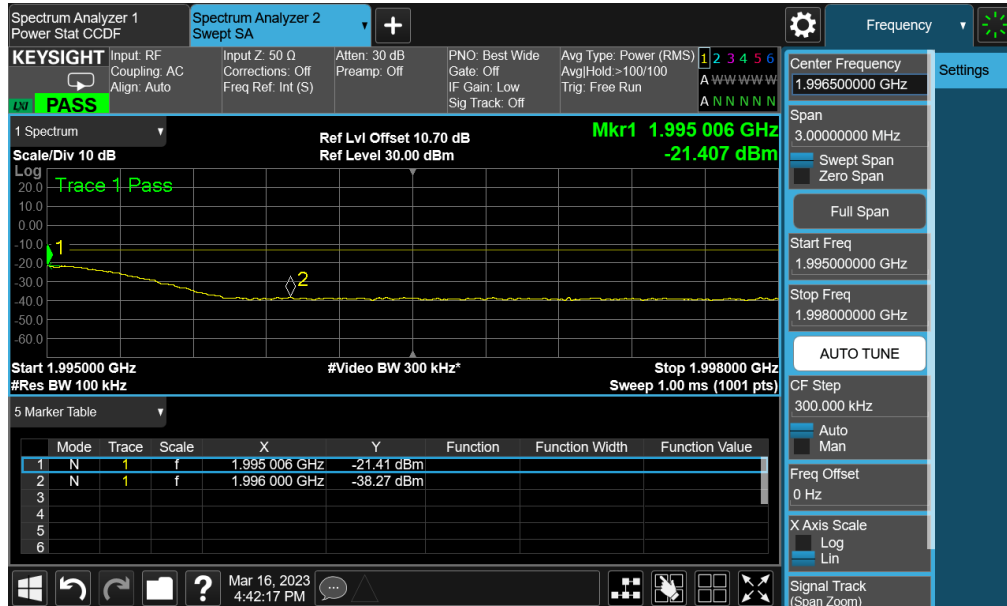


#### Downlink\_100MHz AWGN\_Two signals input\_3dB above AGC\_Lower edge

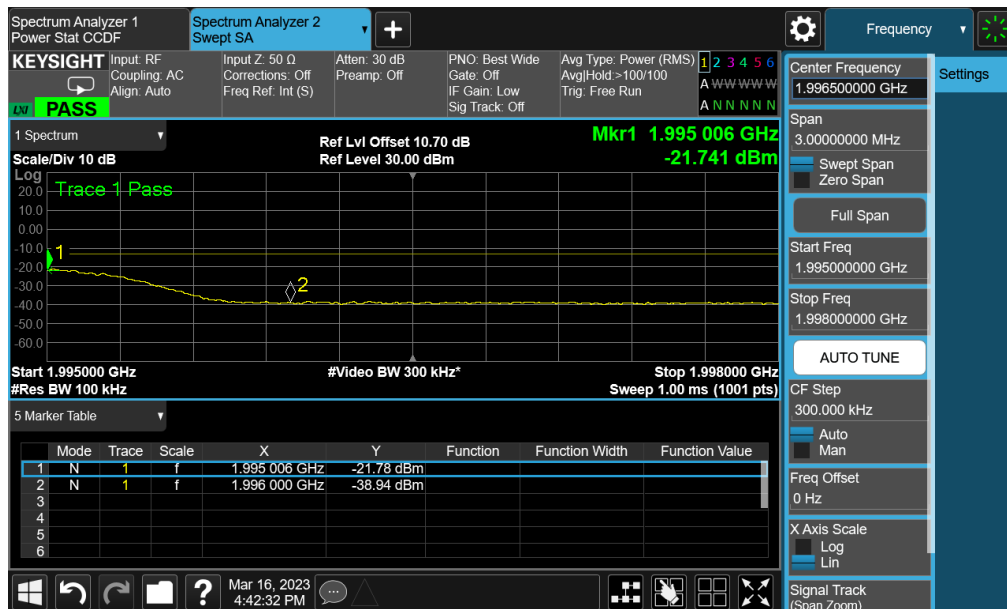


### Out-of-band/out-of-block emissions

#### Downlink\_100MHz AWGN\_Two signals input\_Pre-AGC\_Upper edge

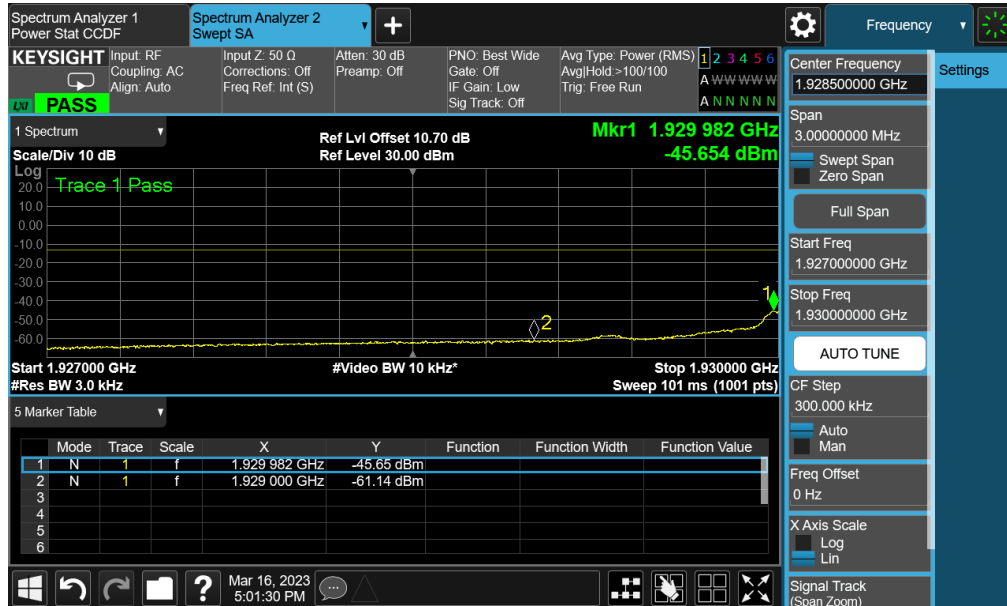


#### Downlink\_100MHz AWGN\_Two signals input\_3dB above AGC\_Upper edge

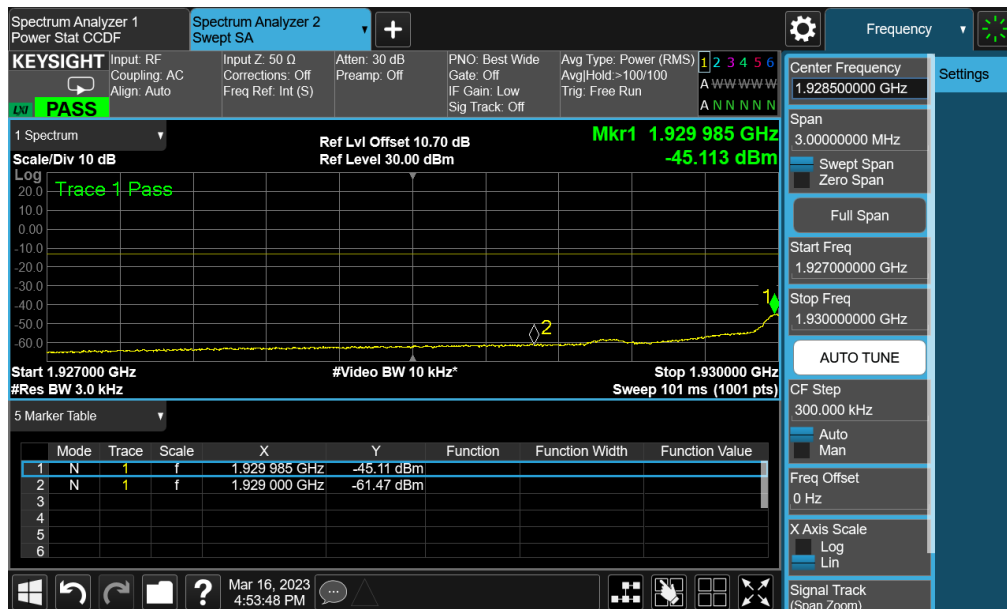


### Out-of-band/out-of-block emissions

#### Downlink\_GSM\_One signal input\_Pre-AGC\_Lower edge



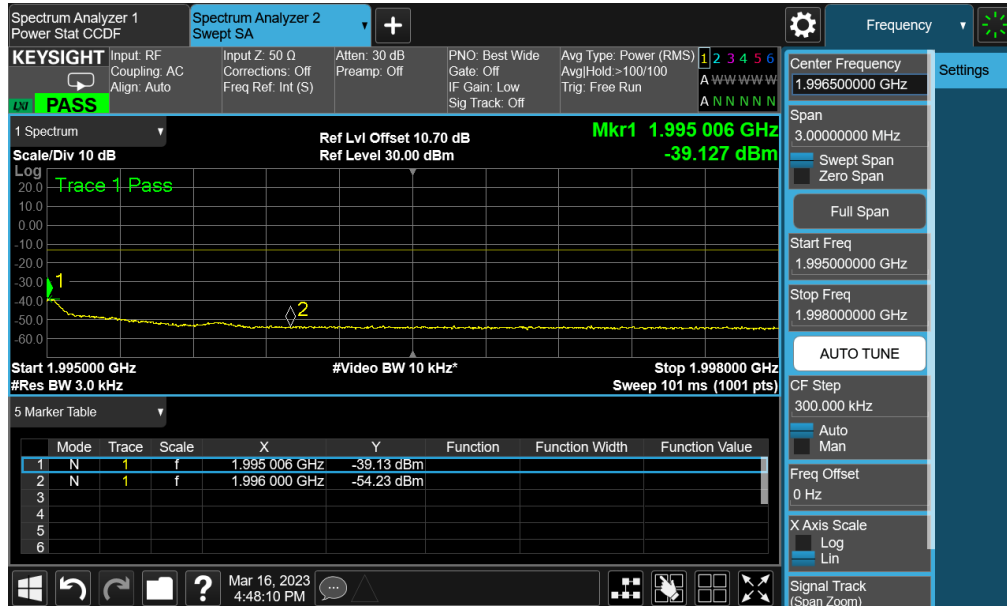
#### Downlink\_GSM\_One signal input\_3dB above AGC\_Lower edge



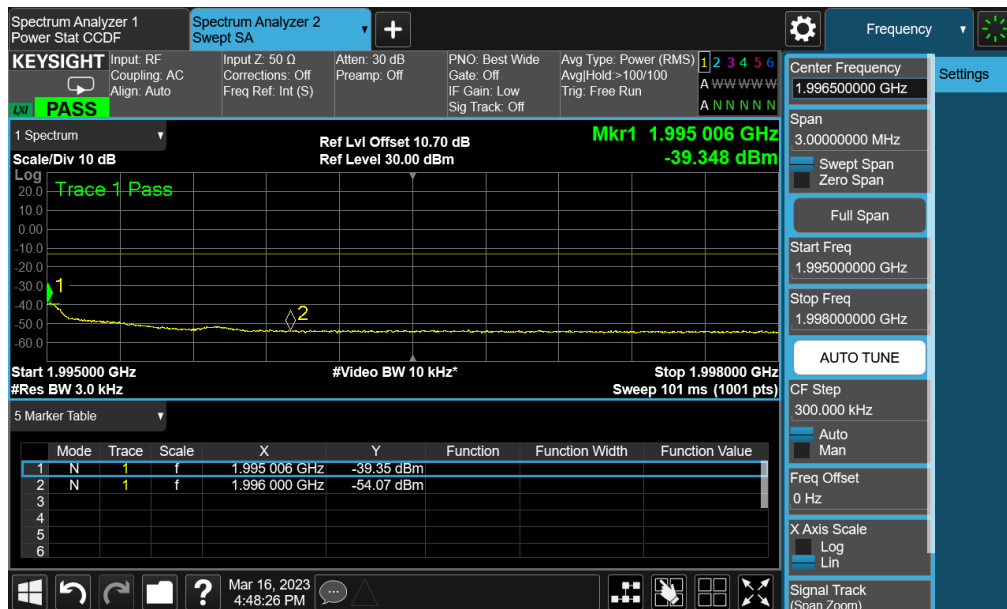


### Out-of-band/out-of-block emissions

#### Downlink\_GSM\_One signal input\_Pre-AGC\_Upper edge



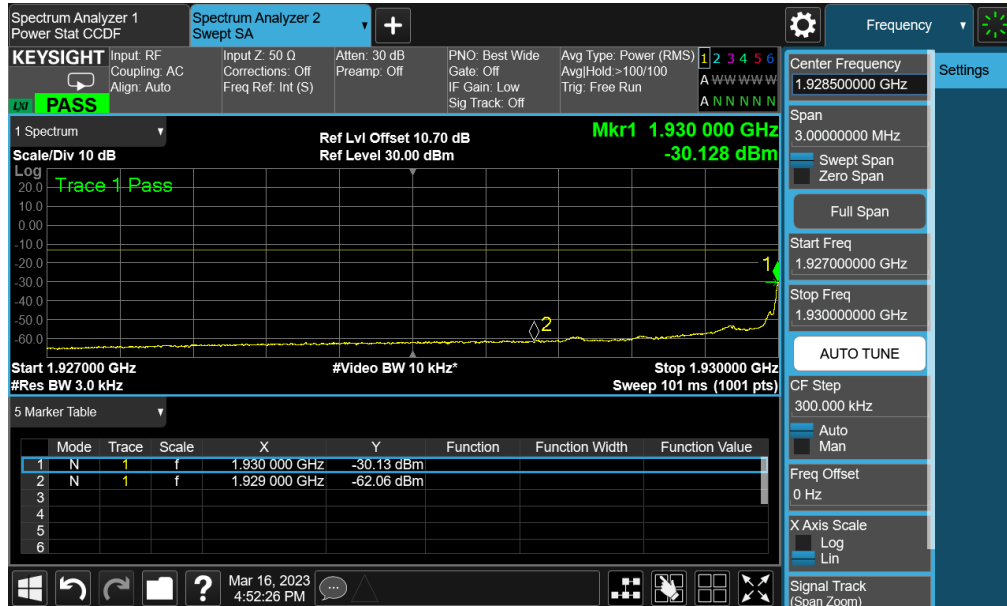
#### Downlink\_GSM\_One signal input\_3dB above AGC\_Upper edge



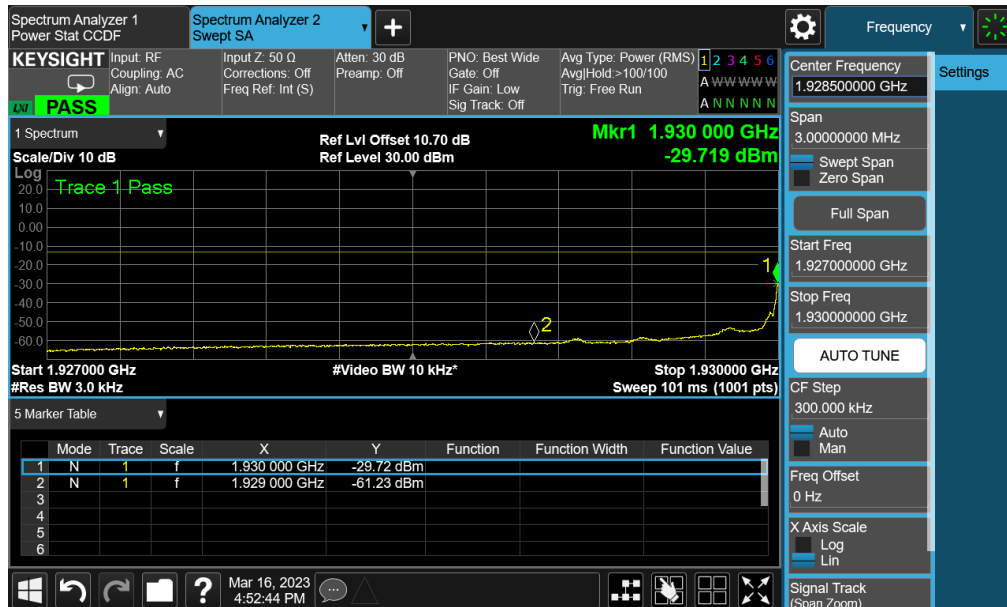


### Out-of-band/out-of-block emissions

#### Downlink\_GSM\_Two signals input\_Pre-AGC\_Lower edge



#### Downlink\_GSM\_Two signals input\_3dB above AGC\_Lower edge

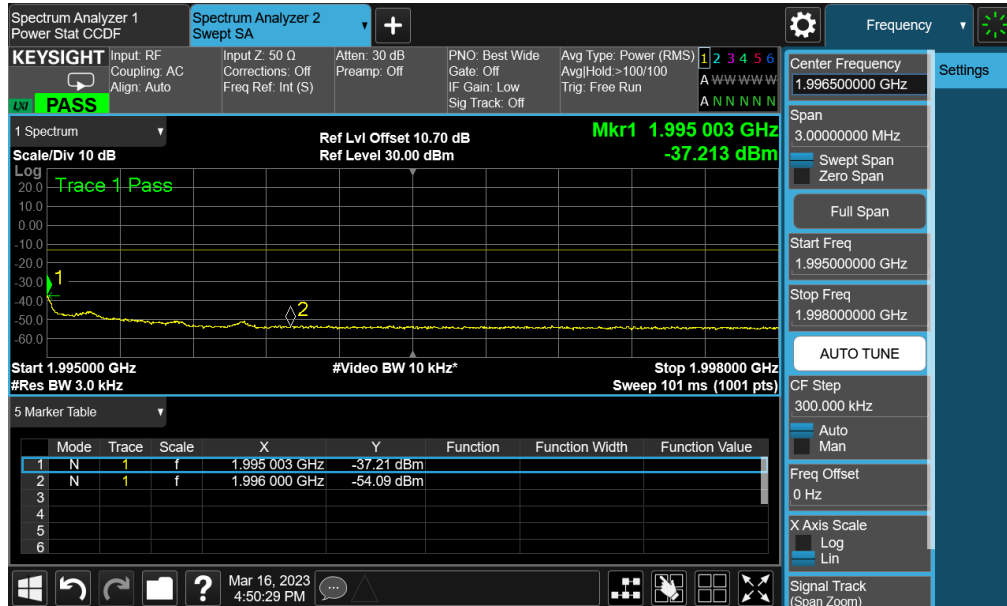


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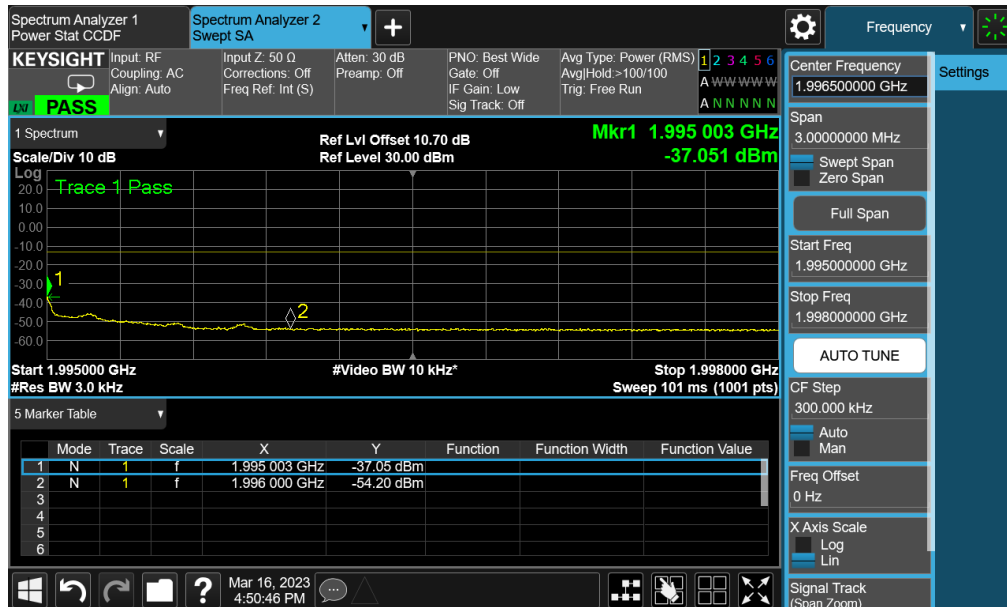
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### Out-of-band/out-of-block emissions

#### 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)	Limit (dBm)	Verdict
Downlink	High Channel	5MHz AWGN	Pre-AGC	0.009-1000	-28.43	≤-13	PASS
				1000-1929	-35.56	≤-13	PASS
				1996-20000	-43.29	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-30.32	≤-13	PASS
				1000-1929	-28.39	≤-13	PASS
				1996-20000	-29.36	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-33.23	≤-13	PASS
				1000-1929	-30.83	≤-13	PASS
				1996-20000	-27.36	≤-13	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	0.009-1000	-32.23	≤-13	PASS
				1000-1929	-34.35	≤-13	PASS
				1996-20000	-28.38	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-33.21	≤-13	PASS
				1000-1929	-31.93	≤-13	PASS
				1996-20000	-30.95	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-37.43	≤-13	PASS
				1000-1929	-31.23	≤-13	PASS
				1996-20000	-30.03	≤-13	PASS
	Low Channel	5MHz AWGN	Pre-AGC	0.009-1000	-40.02	≤-13	PASS
				1000-1929	-36.43	≤-13	PASS
				1996-20000	-36.92	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-33.01	≤-13	PASS
				1000-1929	-31.14	≤-13	PASS
				1996-20000	-35.32	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-41.92	≤-13	PASS
				1000-1929	-37.38	≤-13	PASS
				1996-20000	-32.17	≤-13	PASS



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**Remark:**

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10\log_{10}(P)$  dB,

Rated power  $P = 19\text{dBm} = 0.08\text{W}$ , so

the limit =  $19\text{dBm} - [43 + 10\log_{10}(0.08\text{W})]$  dB = -13dBm



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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	1962.5	+50	48	33	0.0168	PASS
		+40	48	28	0.0143	PASS
		+30	48	18	0.0092	PASS
		+20	48	15	0.0076	PASS
		+10	48	21	0.0107	PASS
		0	48	24	0.0122	PASS
		-10	48	33	0.0168	PASS
		-20	48	25	0.0127	PASS
		-30	48	13	0.0066	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V DC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	1962.5	40.8	20	23	0.0117	PASS
		55.2	20	31	0.0158	PASS



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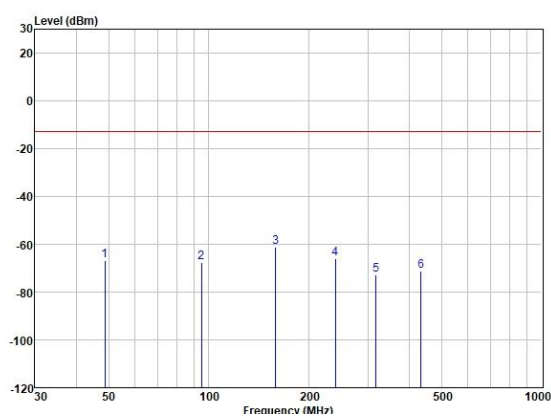


### 7 Radiated Spurious emissions

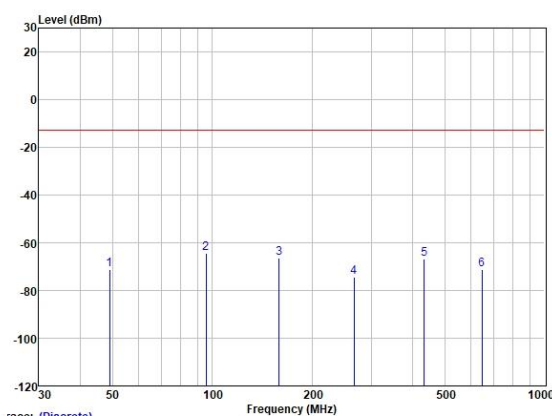
All modes (Lowest/Middle/Highest Channels, 5MHz AWGN input signal/100MHz AWGN input signal / GSM input signal) have been tested and only the worst test result was recorded in this report.

#### Radiated Spurious emissions

##### 5MHz AWGN\_Middle Channel\_30MHz-1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	48.672	-64.99	-1.98	-66.97	-13.00	-53.97	HORIZONTAL
2	95.093	-58.05	-9.68	-67.73	-13.00	-54.73	HORIZONTAL
3	158.668	-54.67	-6.50	-61.17	-13.00	-48.17	HORIZONTAL
4	239.987	-59.93	-6.16	-66.09	-13.00	-53.09	HORIZONTAL
5	317.701	-69.51	-3.20	-72.71	-13.00	-59.71	HORIZONTAL
6	434.065	-71.37	0.21	-71.16	-13.00	-58.16	HORIZONTAL

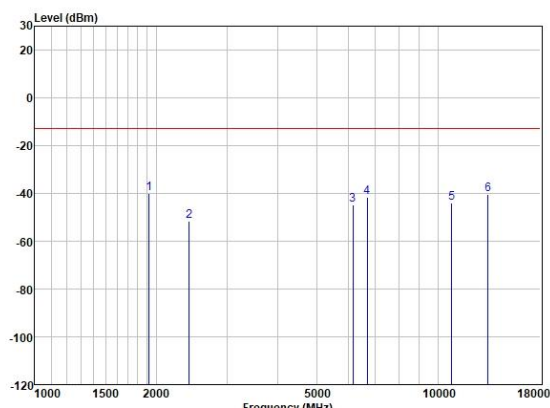


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	49.014	-63.62	-7.71	-71.33	-13.00	-58.33	VERTICAL
2	95.762	-58.60	-5.78	-64.38	-13.00	-51.38	VERTICAL
3	158.668	-62.62	-3.94	-66.56	-13.00	-53.56	VERTICAL
4	266.609	-70.85	-3.69	-74.54	-13.00	-61.54	VERTICAL
5	434.065	-68.15	1.32	-66.83	-13.00	-53.83	VERTICAL
6	647.386	-75.95	4.70	-71.25	-13.00	-58.25	VERTICAL

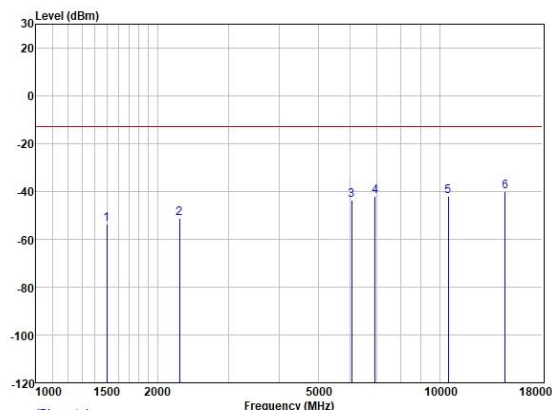


### Radiated Spurious emissions

#### 5MHz AWGN\_Middle Channel\_above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1921.727	-47.20	7.07	-40.13	-13.00	-27.13	HORIZONTAL
2	2414.672	-60.94	9.30	-51.64	-13.00	-38.64	HORIZONTAL
3	6159.797	-63.82	19.07	-44.75	-13.00	-31.75	HORIZONTAL
4	6679.040	-62.02	20.25	-41.77	-13.00	-28.77	HORIZONTAL
5	10822.920	-67.92	23.96	-43.96	-13.00	-30.96	HORIZONTAL
6	13326.750	-67.88	27.32	-40.56	-13.00	-27.56	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1498.781	-60.47	6.97	-53.50	-13.00	-40.50	VERTICAL
2	2265.907	-60.66	9.54	-51.12	-13.00	-38.12	VERTICAL
3	6053.894	-62.97	19.43	-43.54	-13.00	-30.54	VERTICAL
4	6914.763	-62.33	20.50	-41.83	-13.00	-28.83	VERTICAL
5	10514.580	-66.88	24.78	-42.10	-13.00	-29.10	VERTICAL
6	14533.910	-67.27	27.40	-39.87	-13.00	-26.87	VERTICAL

--End of Appendix--



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