

# Appendix -

## Test Data and Result for report

### GZCR230600056803

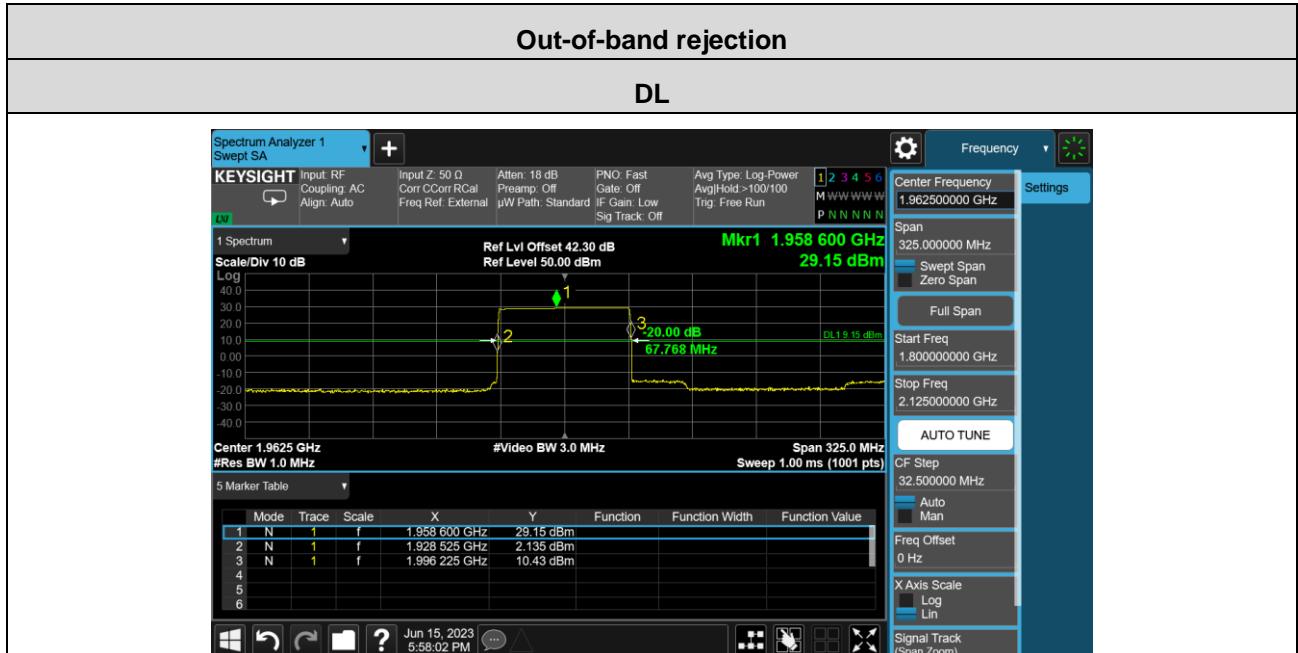
(For DL 1930-1995MHz)



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### 1 Out-of-band rejection



The peak of the frequency response  $f_0$  is 1958.6MHz.

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.

## 2 Input versus Output comparison

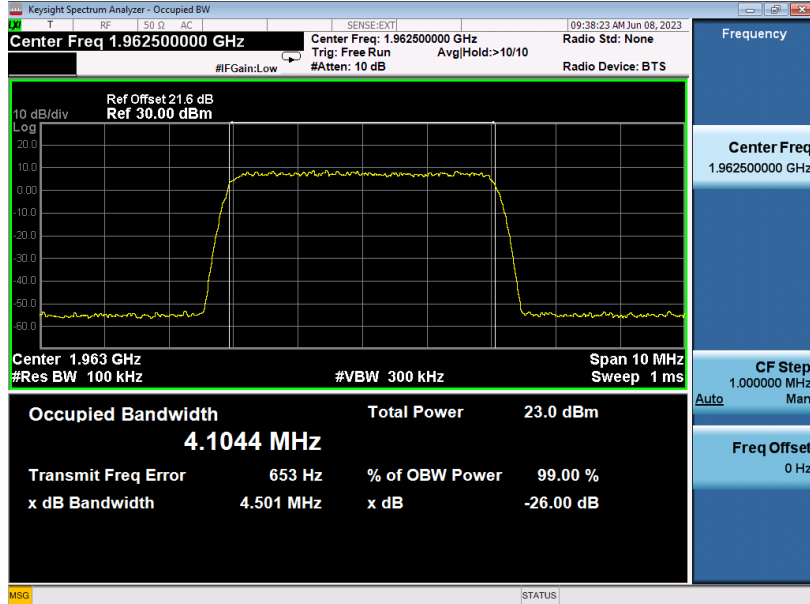
Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS*
			3dB above AGC	PASS*
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

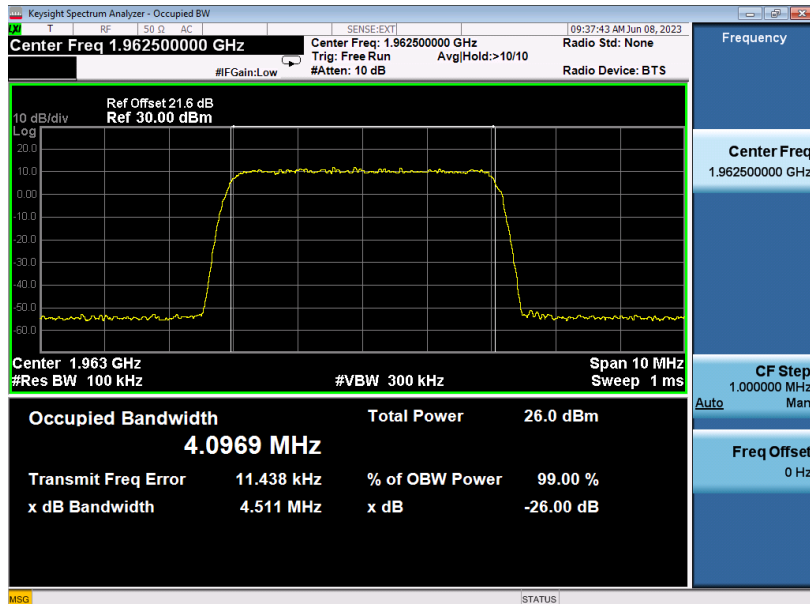
- \* The band supports maximum single channel BW is 60MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
- Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.

### 99% OBW

#### DL\_4.1MHz AWGN\_MCH\_Input\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Input\_3dB above AGC

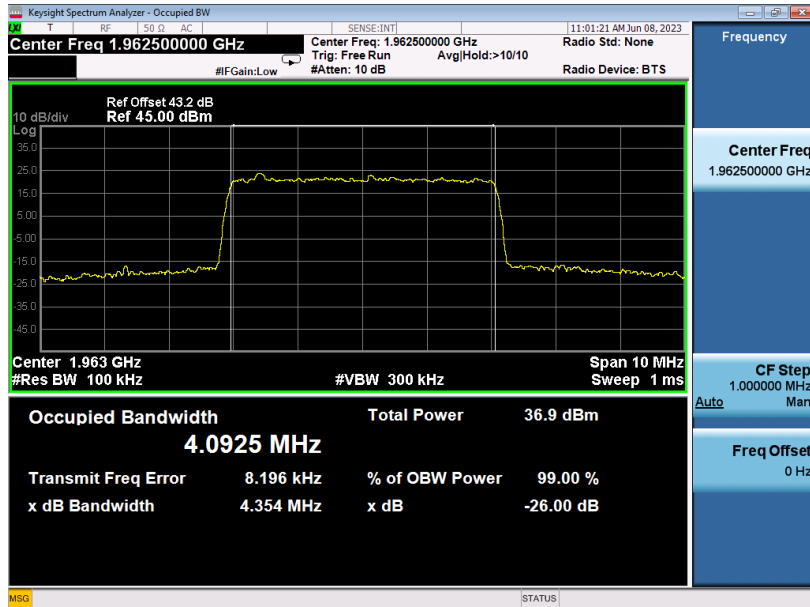


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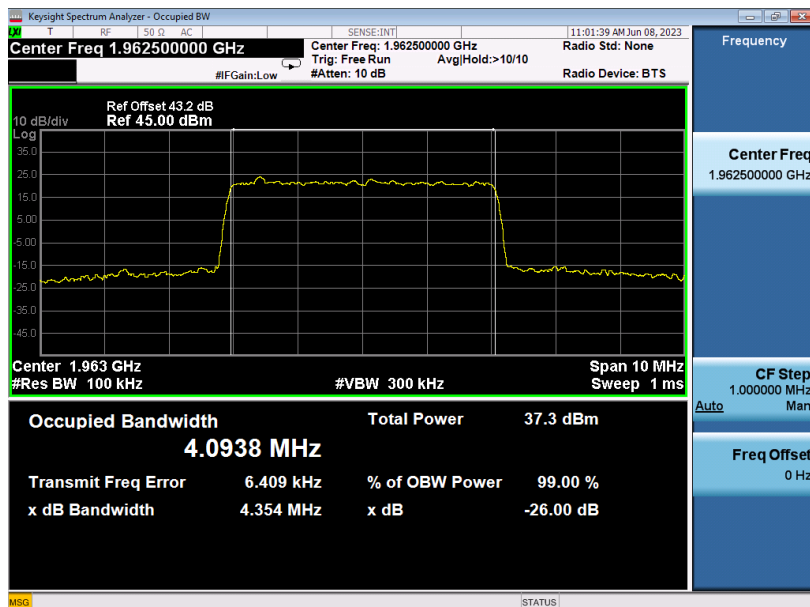
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### 99% OBW

#### DL\_4.1MHz AWGN\_MCH\_Output\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Output\_3dB above AGC



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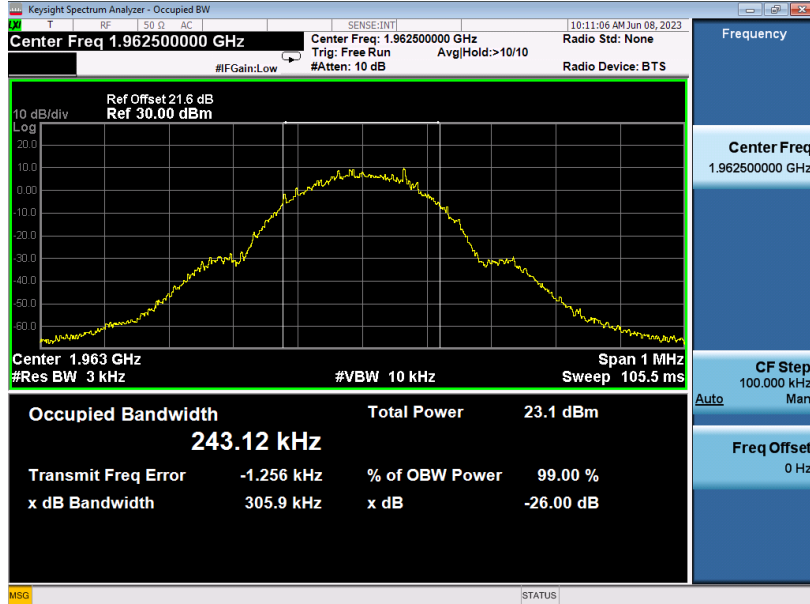
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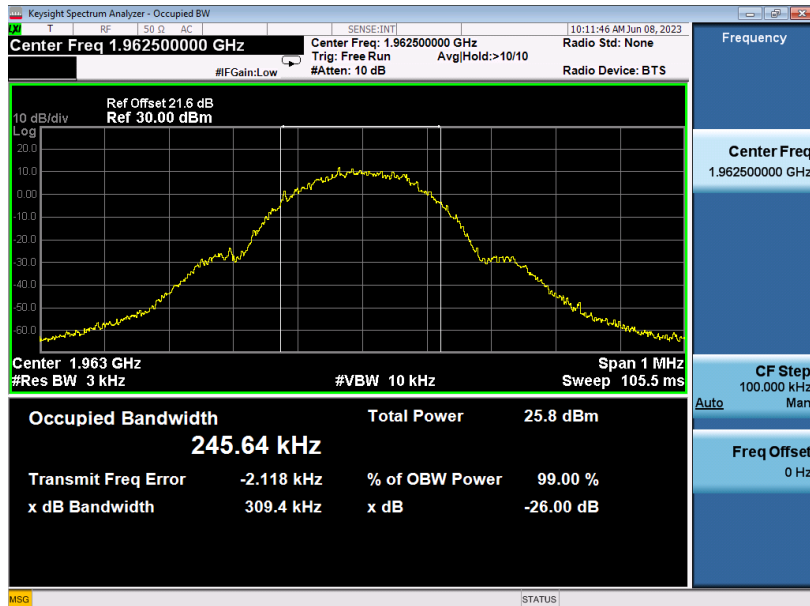


### 99% OBW

#### DL\_GSM\_MCH\_Input\_Pre-AGC



#### DL\_GSM\_MCH\_Input\_3dB above AGC

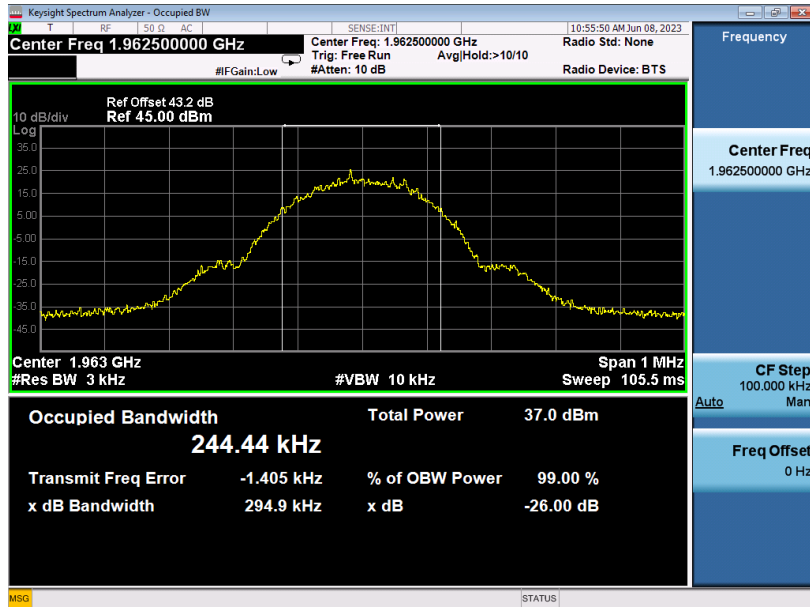


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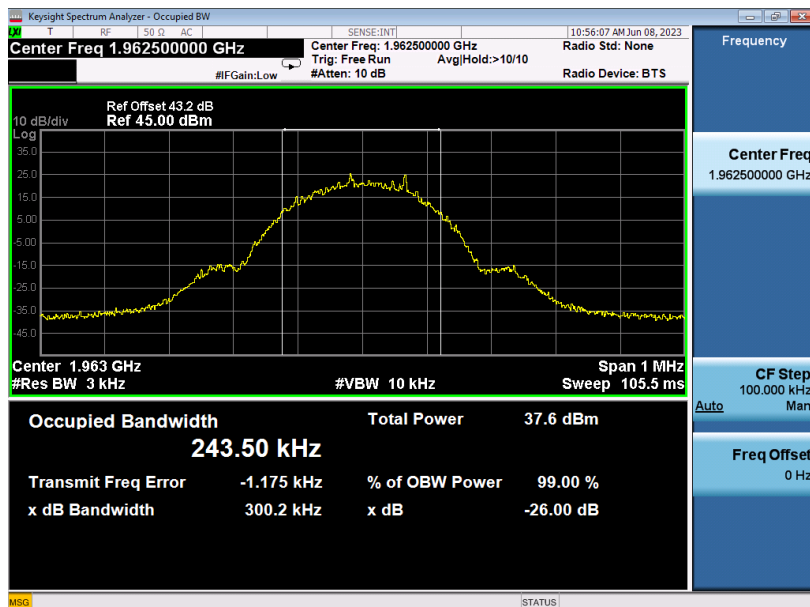
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### 99% OBW

#### DL\_GSM\_MCH\_Output\_Pre-AGC



#### DL\_GSM\_MCH\_Output\_3dB above AGC

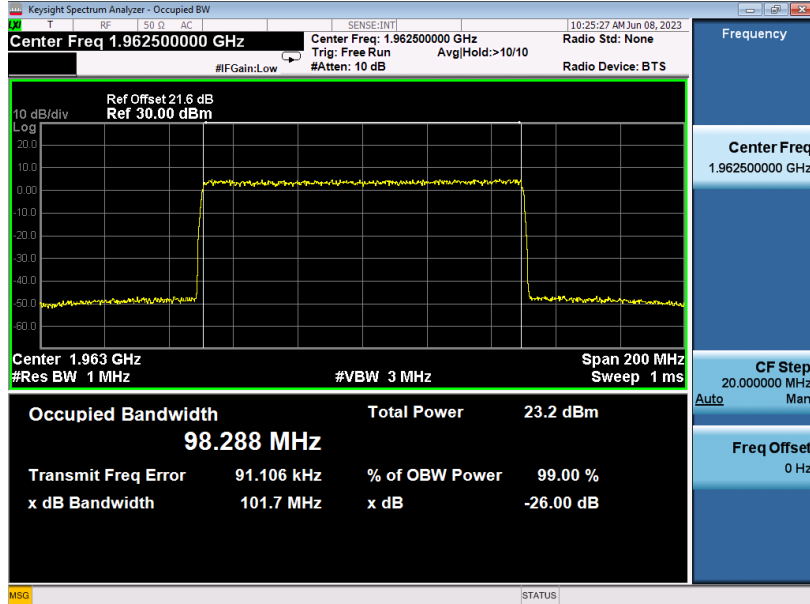


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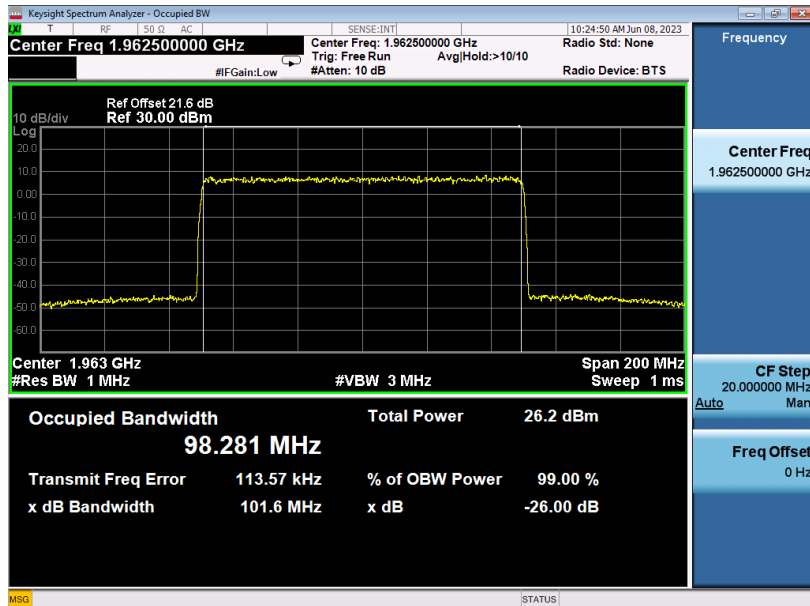
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### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Input\_Pre-AGC



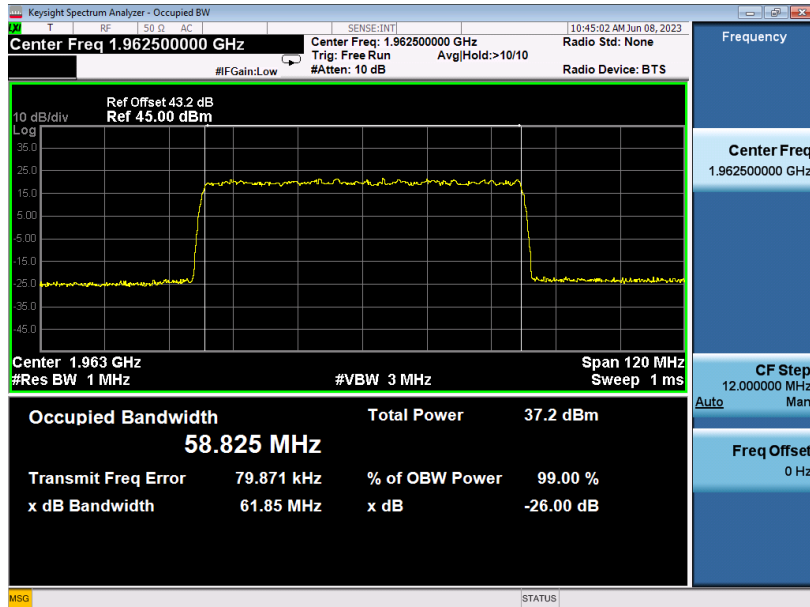
#### DL\_100MHz AWGN\_MCH\_Input\_3dB above AGC



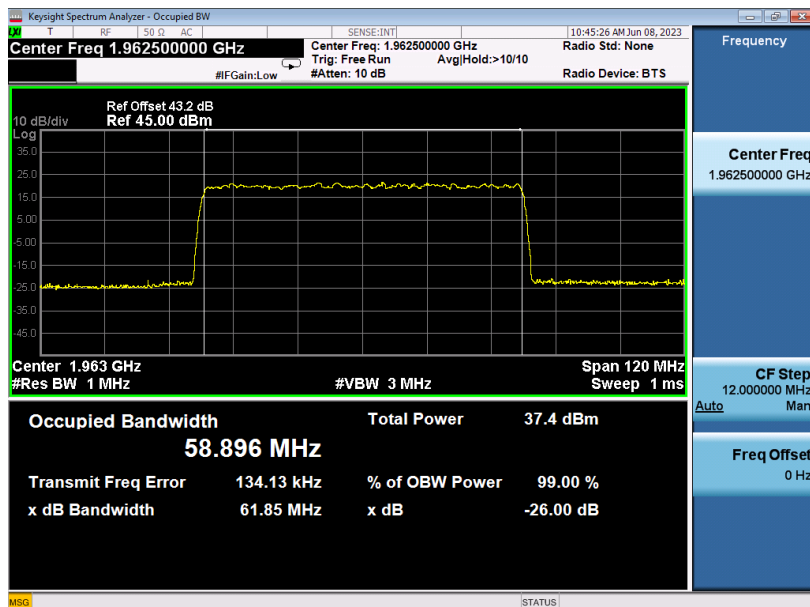


### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Output\_Pre-AGC



#### DL\_100MHz AWGN\_MCH\_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)	SISO EIRP (W)	Total EIRP (W)	Gain (dB)
DL	1958.6	4.1MHz AWGN	Pre-AGC	23.00	37.26	53.22	212.82	14.26
			3dB above AGC	26.00	37.13	51.65	206.54	/
		100MHz AWGN	Pre-AGC	22.00	36.67	46.46	185.79	14.67
			3dB above AGC	25.00	36.74	47.21	188.80	/
		GSM	Pre-AGC	23.00	37.88	61.38	245.48	14.88
			3dB above AGC	26.00	37.53	56.63	226.47	/
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer, the directional gain = G <sub>ANT</sub> + 10 log (N <sub>ANT</sub> ) dBi = 13dBi. 3. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.								

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict
DL	1958.6	4.1MHz AWGN	Pre-AGC	31.56	14.33	57.29	PASS
			3dB above AGC	31.72	14.86	59.43	PASS
		100MHz AWGN	Pre-AGC	25.03	3.19	12.74	PASS
			3dB above AGC	24.97	3.15	12.57	PASS
		GSM	Pre-AGC	37.88	61.38	245.48	PASS
			3dB above AGC	37.53	56.63	226.47	PASS
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer, the directional gain = G <sub>ANT</sub> + 10 log (N <sub>ANT</sub> ) dBi = 13dBi. 3. The output power is limited to an EIRP of 1640W/MHz. 4. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.							



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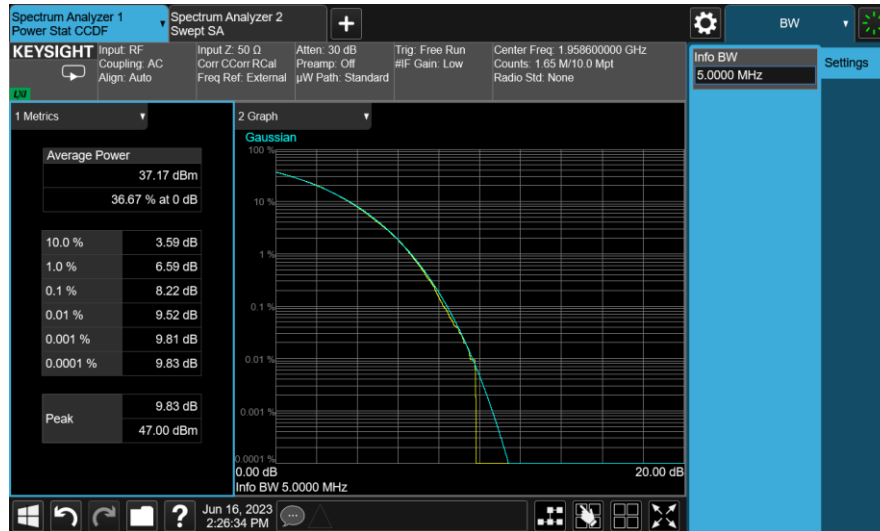
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Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
DL	1958.6	4.1MHz AWGN	Pre-AGC	8.22	≤13	PASS
			3dB above AGC	8.16		PASS
		100MHz AWGN	Pre-AGC	8.50		PASS
			3dB above AGC	8.33		PASS
Remark: The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN (pre-AGC) were record in the report for demonstrate PAR compliance.						

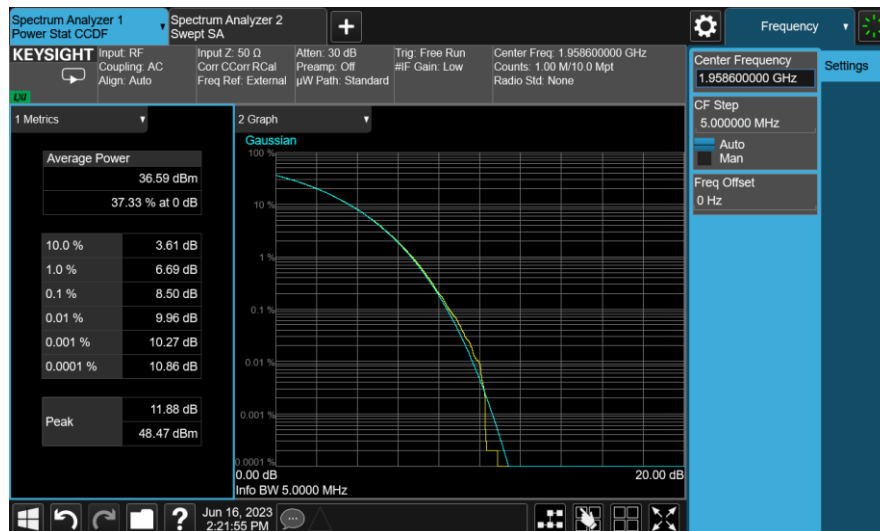


### Peak-to-average ratio (PAR)

### DL\_4.1MHz AWGN\_Pre-AGC



### DL\_100MHz AWGN\_Pre-AGC



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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
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-24.93	≤-16	PASS
				3dB above AGC	-26.63		PASS
			Two signals input	Pre-AGC	-24.63		PASS
				3dB above AGC	-25.41		PASS
	HCH		One signal input	Pre-AGC	-24.18		PASS
				3dB above AGC	-24.52		PASS
			Two signals input	Pre-AGC	-25.27		PASS
				3dB above AGC	-24.19		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-19.64	≤-16	PASS
				3dB above AGC	-20.18		PASS
			Two signals input	Pre-AGC	-19.02		PASS
				3dB above AGC	-18.38		PASS
	HCH		One signal input	Pre-AGC	-19.83		PASS
				3dB above AGC	-20.01		PASS
			Two signals input	Pre-AGC	-18.93		PASS
				3dB above AGC	-19.41		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  $43 + 10\log_{10}(P)$  dB, here,  
 $P = 37\text{dBm} = 5.02\text{W}$   
the limit =  $37\text{dBm} - [43 + 10\log_{10}(5.02\text{W})]$  dB = -13dBm
- For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.

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	LCH	GSM	One signal input	Pre-AGC	-27.28	≤-16	PASS
				3dB above AGC	-26.29		PASS
			Two signals input	Pre-AGC	-20.49		PASS
				3dB above AGC	-20.95		PASS
	HCH		One signal input	Pre-AGC	-19.92		PASS
				3dB above AGC	-20.33		PASS
			Two signals input	Pre-AGC	-25.43		PASS
				3dB above AGC	-25.46		PASS

Remark:

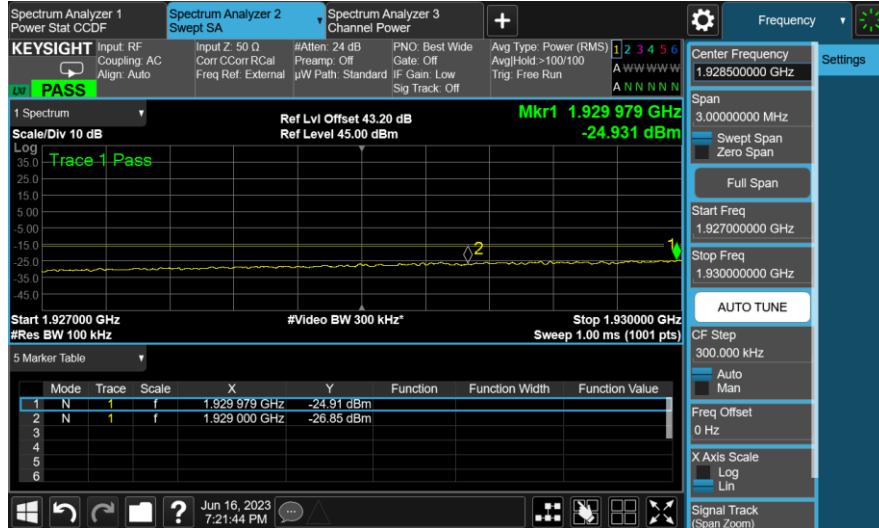
1. The power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, here,  
P = 37dBm = 5.02W  
the limit = 37dBm – [43 + 10 log10 (5.02W)] dB = -13dBm

2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.

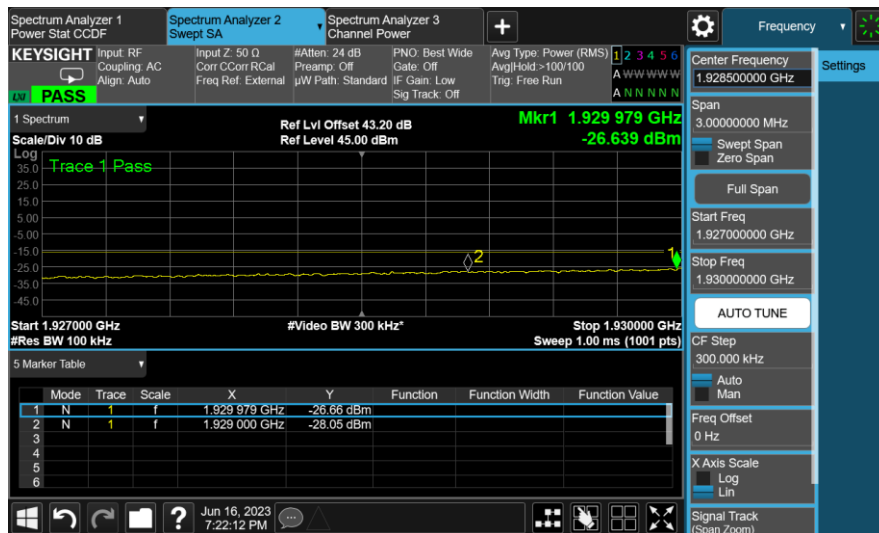


### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC



#### DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC

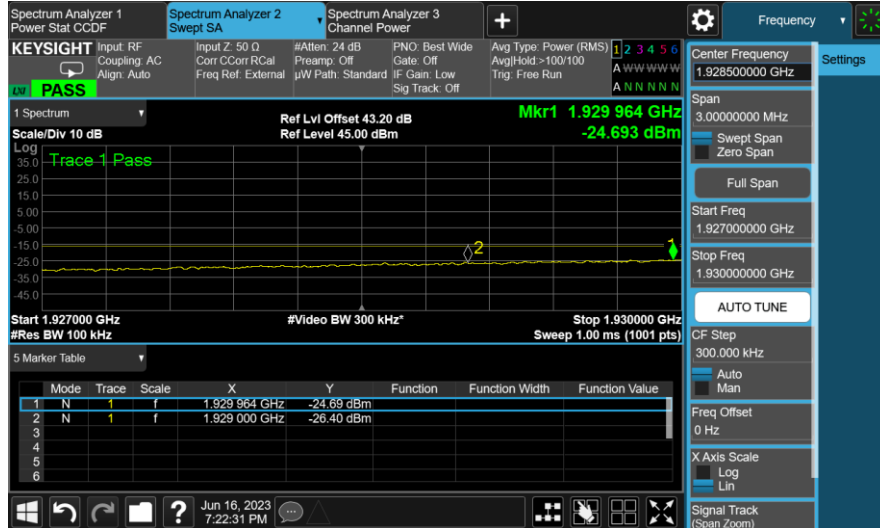


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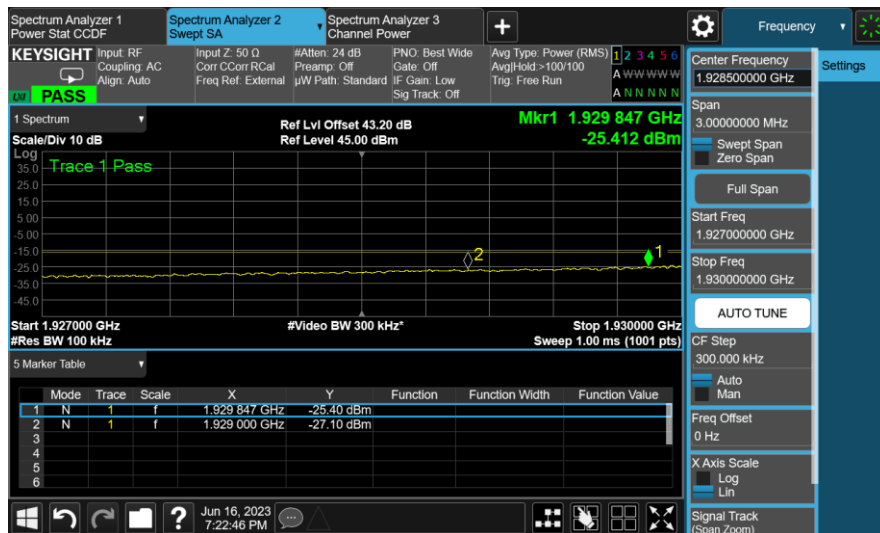
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC



#### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC



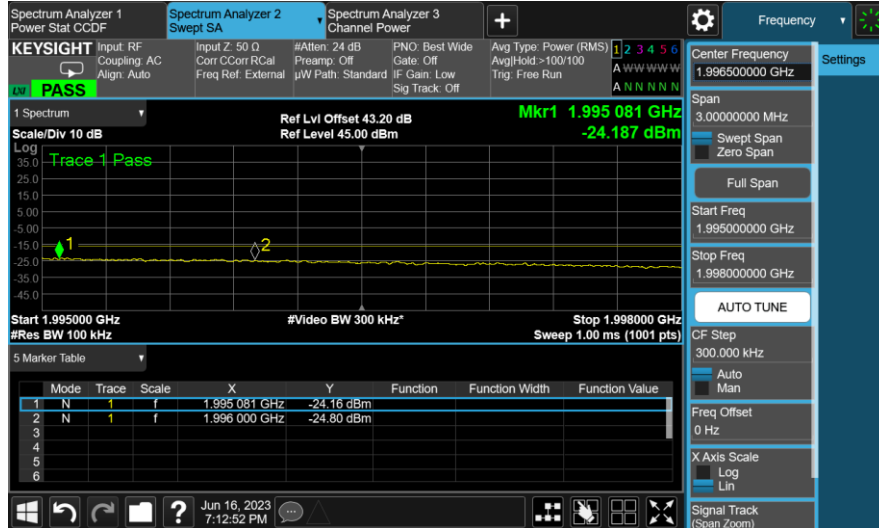
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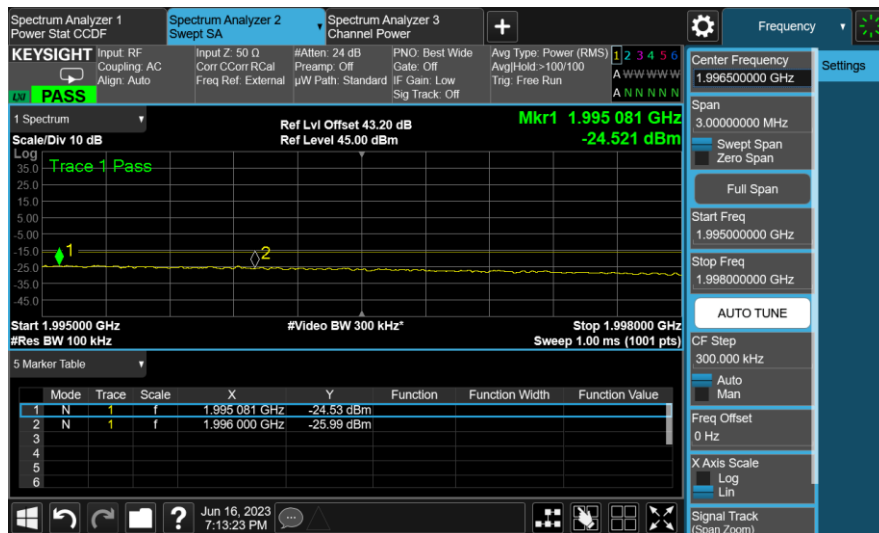


### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC



#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC

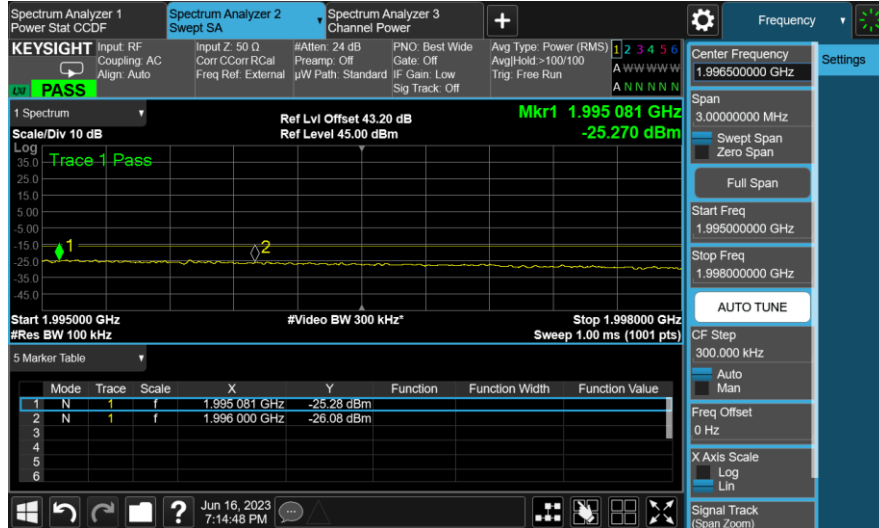


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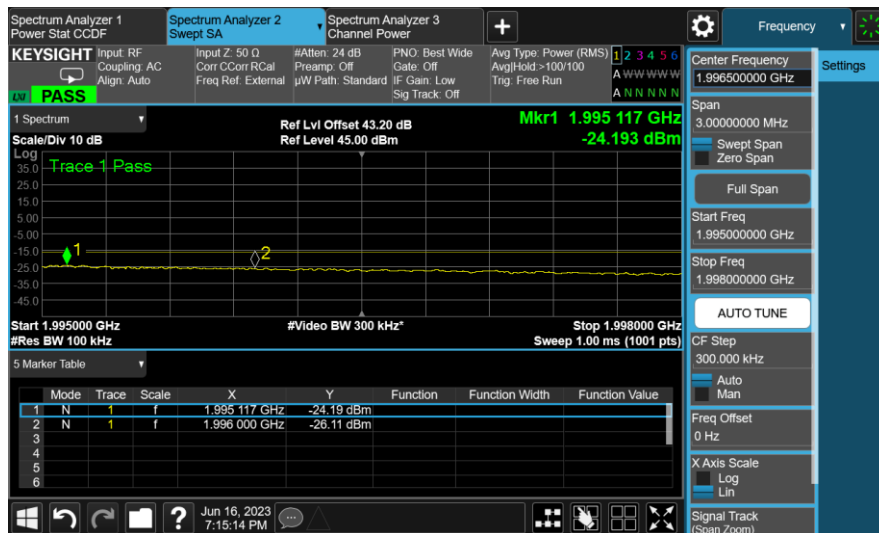
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### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC

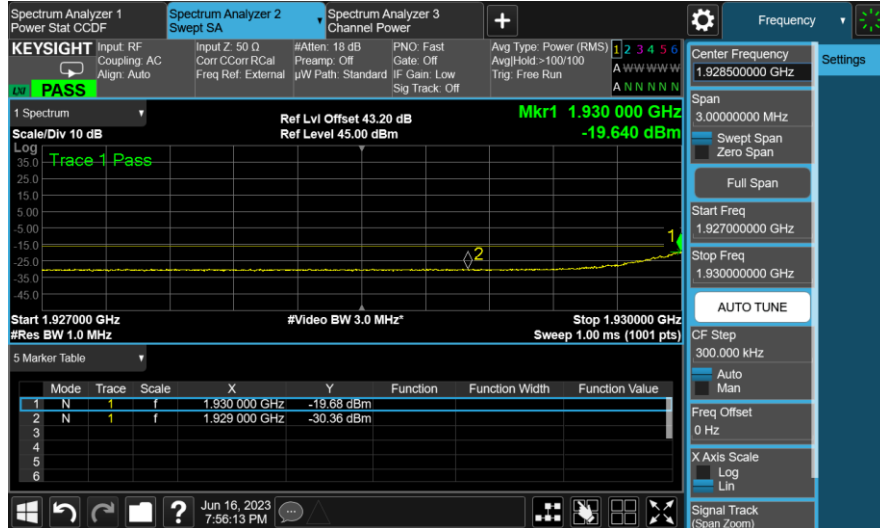


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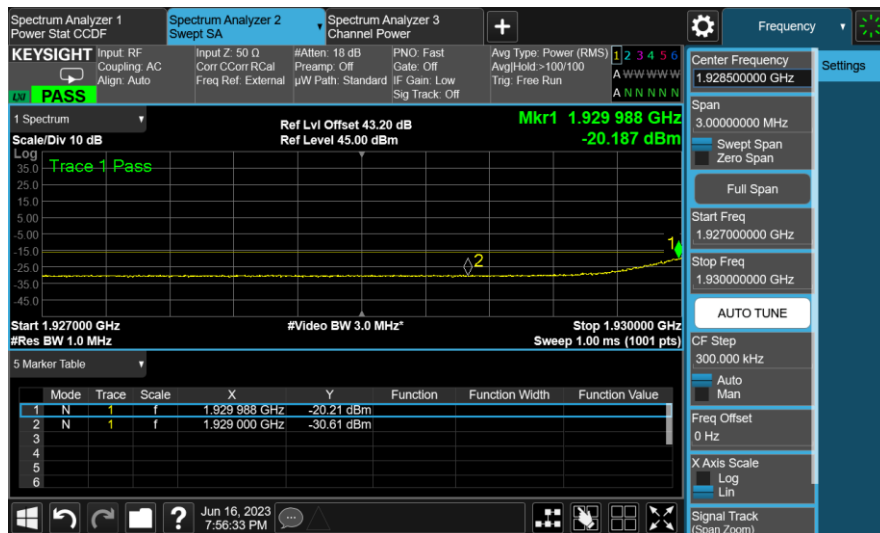
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_LCH\_a single test signal\_Pre-AGC



#### DL\_100MHz AWGN\_LCH\_a single test signal\_3dB above AGC

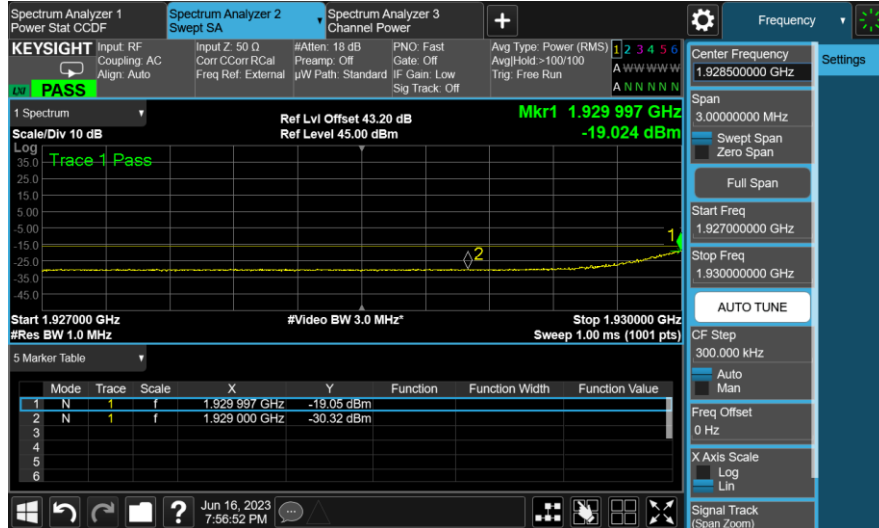


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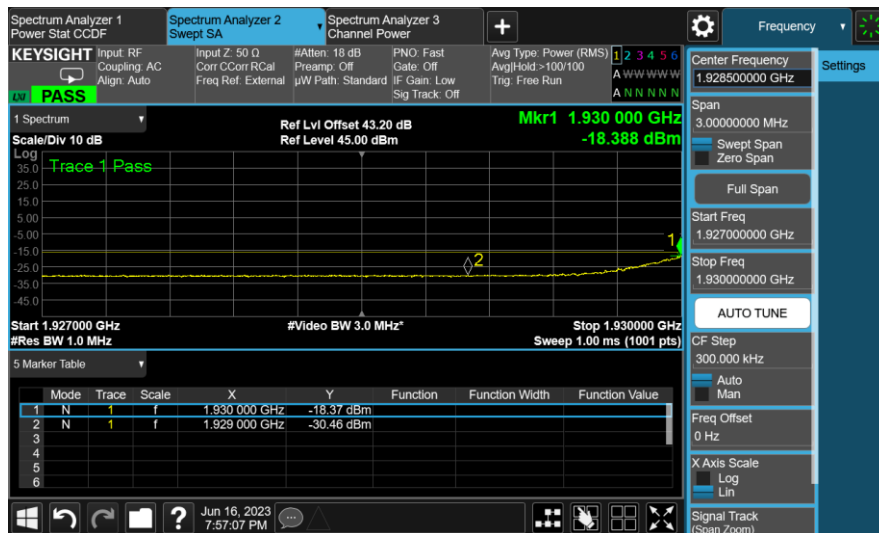
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC



#### DL\_100MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC



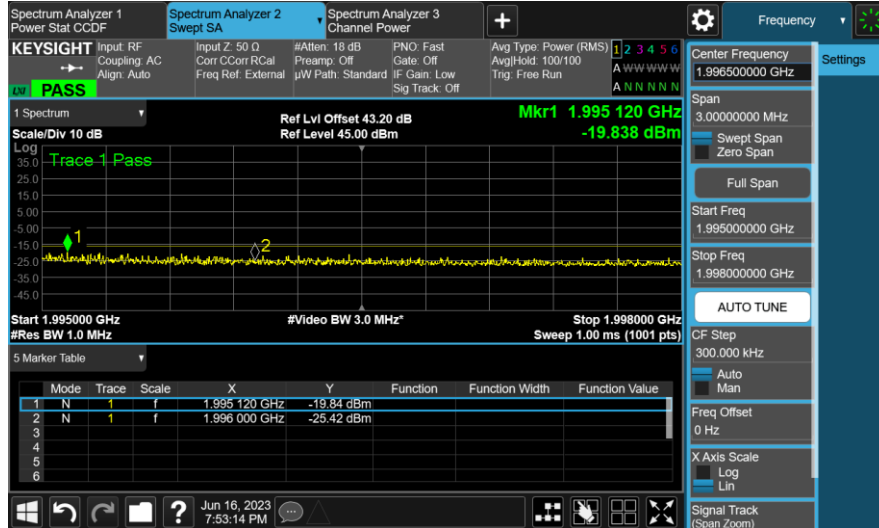
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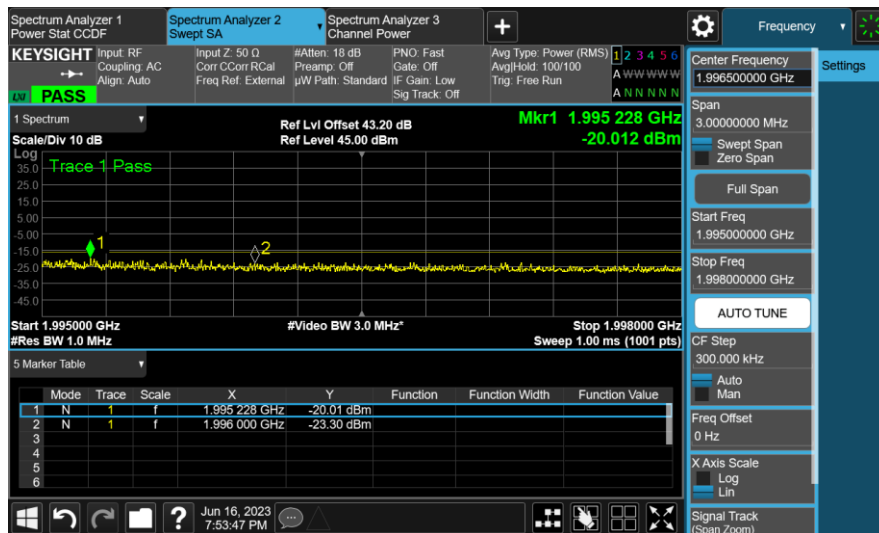


### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_HCH\_a single test signal\_Pre-AGC



#### DL\_100MHz AWGN\_HCH\_a single test signal\_3dB above AGC

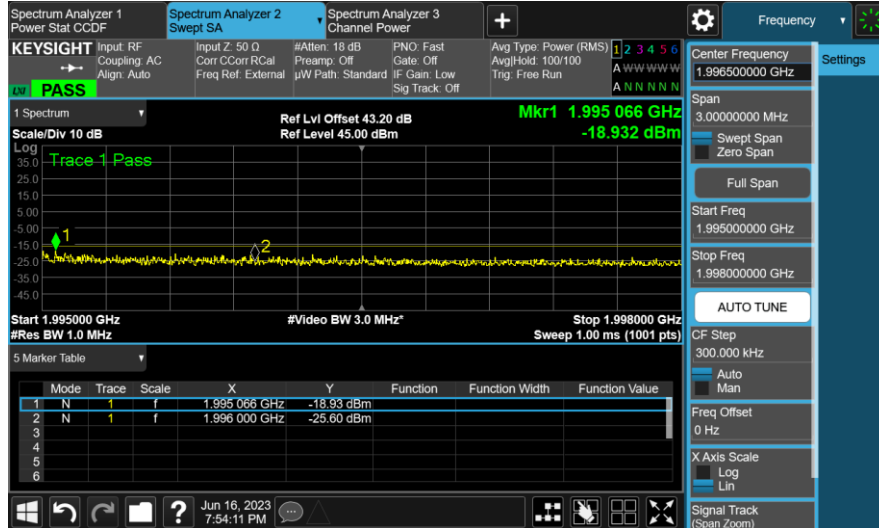


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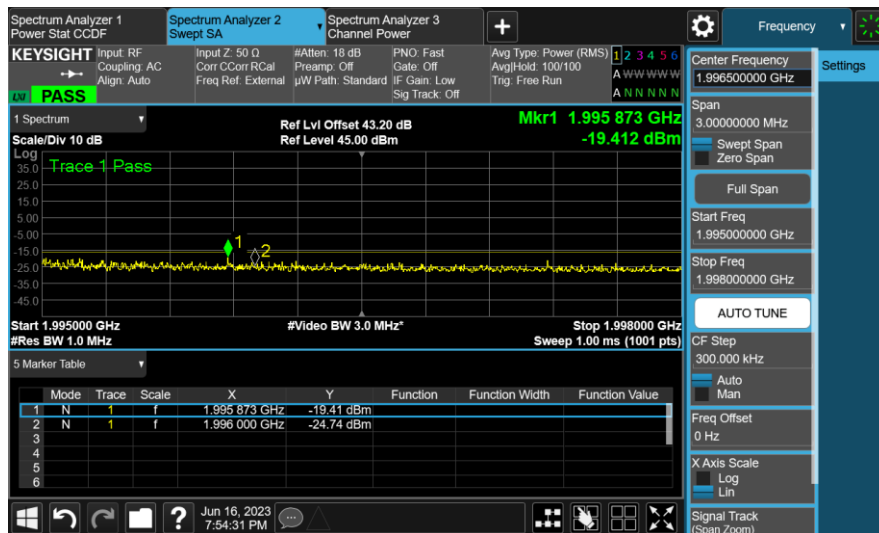
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### Out-of-band/out-of-block emissions

#### DL\_100MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_100MHz AWGN\_HCH\_two adjacent test signals\_3dB above AGC

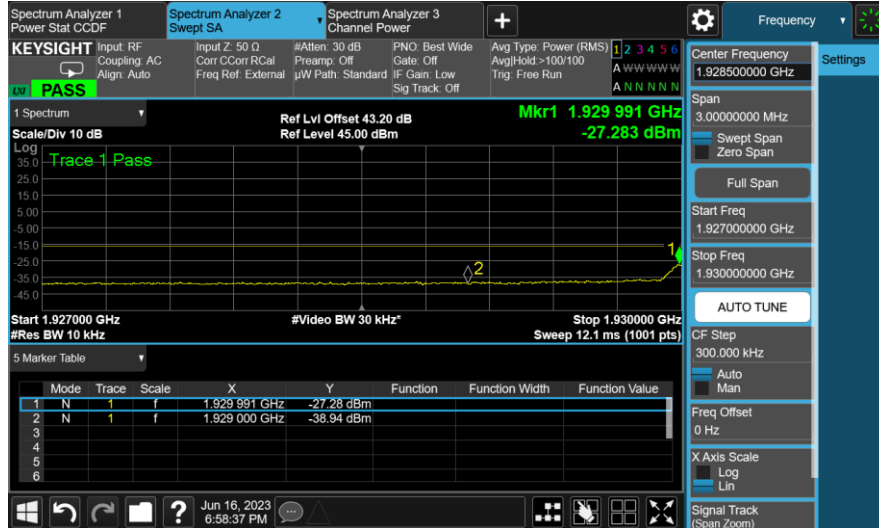


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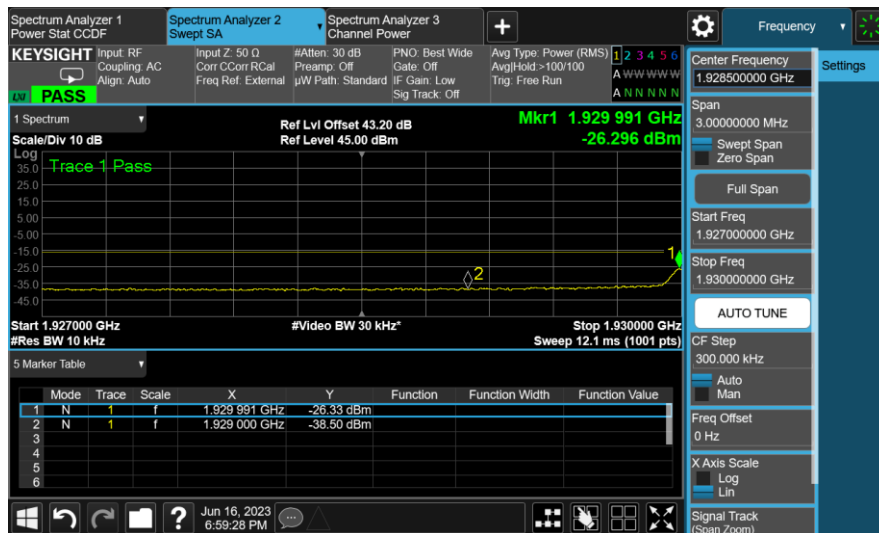
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_LCH\_a single test signal\_Pre-AGC



#### DL\_GSM\_LCH\_a single test signal\_3dB above AGC

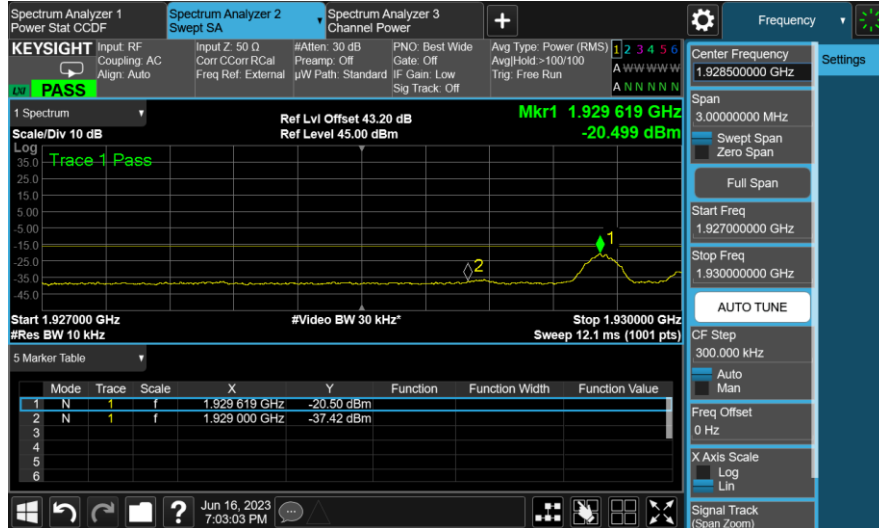


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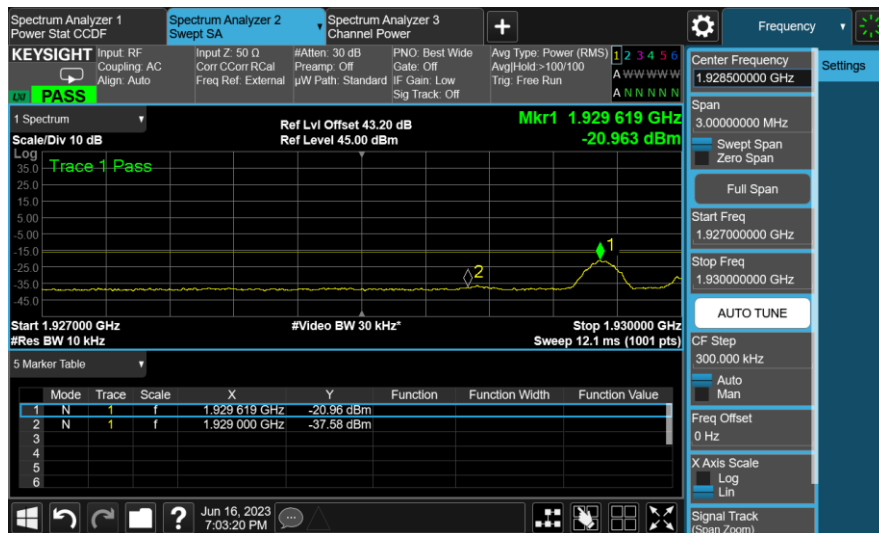
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_LCH\_two adjacent test signals\_Pre-AGC



#### DL\_GSM\_LCH\_two adjacent test signals\_3dB above AGC



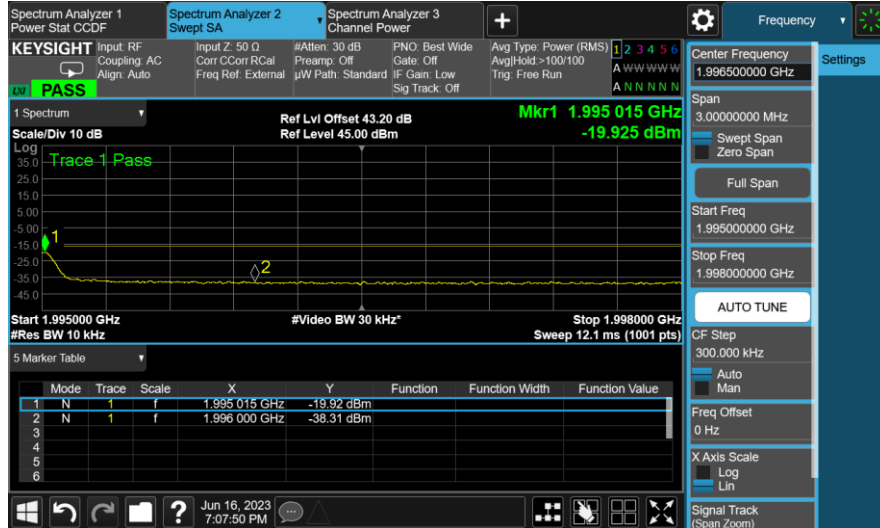
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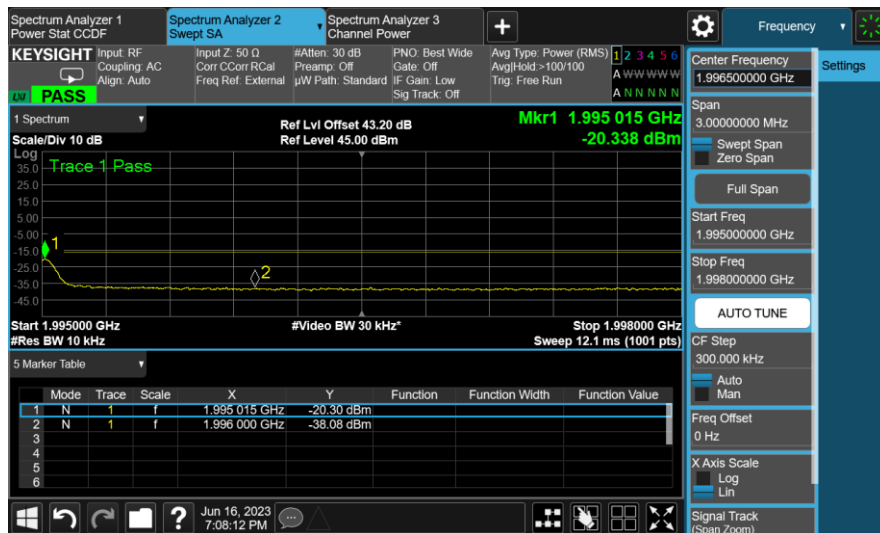


### Out-of-band/out-of-block emissions

#### DL\_GSM\_HCH\_a single test signal\_Pre-AGC



#### DL\_GSM\_HCH\_a single test signal\_3dB above AGC

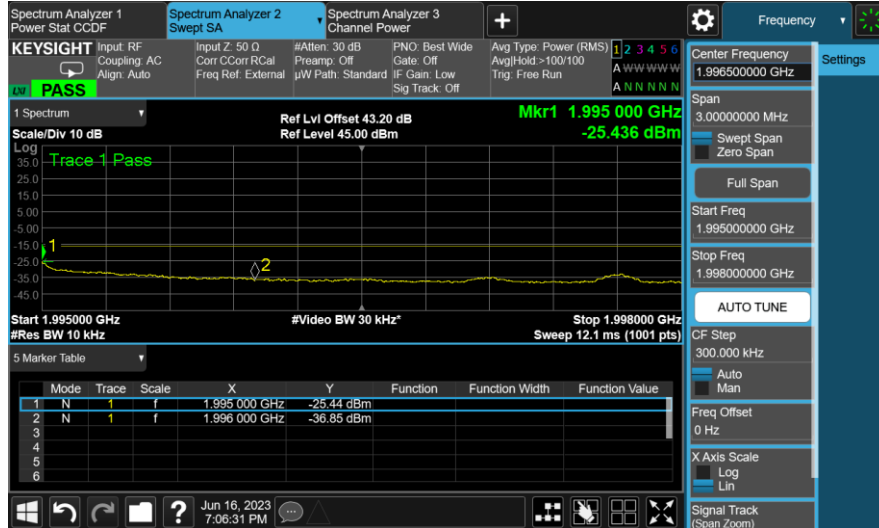


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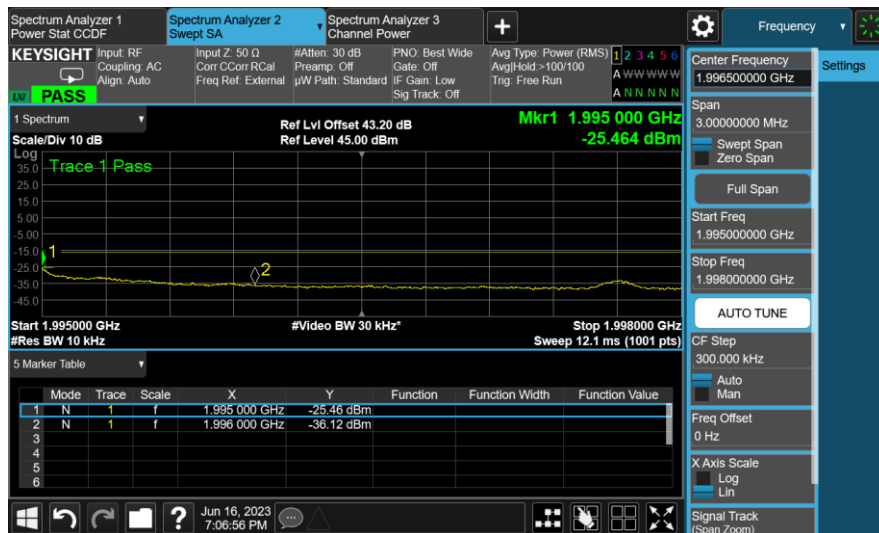
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### Out-of-band/out-of-block emissions

#### DL\_GSM\_HCH\_two adjacent test signals\_Pre-AGC



#### DL\_GSM\_HCH\_two adjacent test signals\_3dB above AGC



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### 5 Conducted Spurious emissions

#### Conducted spurious emissions

#### DL\_4.1MHz AWGN\_MCH\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Pre-AGC

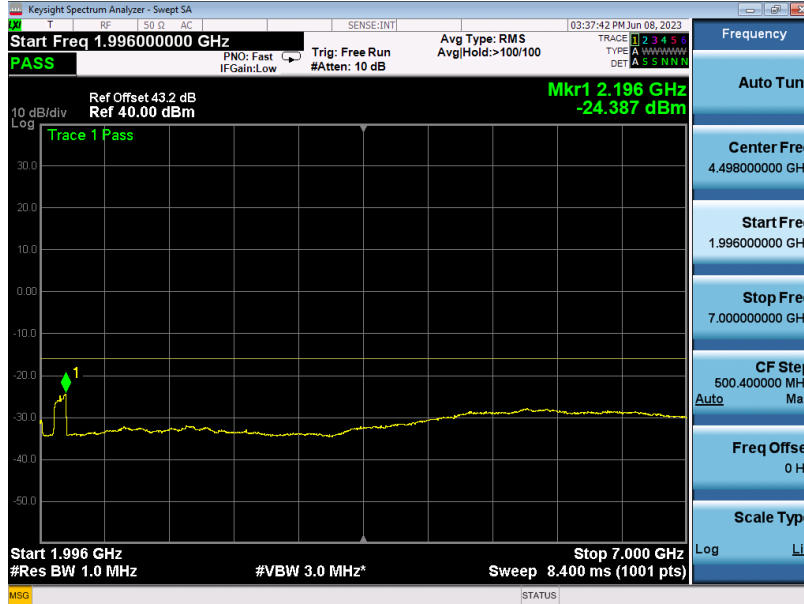


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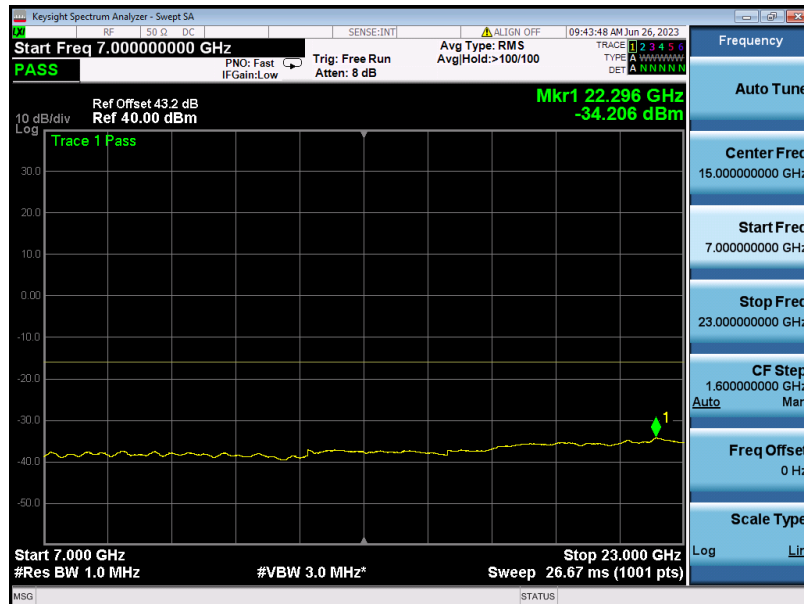
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### Conducted spurious emissions

#### DL\_4.1MHz AWGN\_MCH\_Pre-AGC



#### DL\_4.1MHz AWGN\_MCH\_Pre-AGC



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**Remark:**

1. 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, here,  
 $P = 37\text{dBm} = 5.02\text{W}$ ,  
the limit =  $37\text{dBm} - [43 + 10\log_{10}(5.02\text{W})]$  dB = -13dBm
2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. All modes (Low Channel/MCH/High Channel, with GSM signal/ with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.



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## 6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Freq. (MHz)	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	1962.5	4.1MHz AWGN	TN	VL	21	0.0107	PASS
			TN	VH	18	0.0092	PASS
		100MHz AWGN	TN	VL	28	0.0143	PASS
			TN	VH	26	0.0132	PASS
		GSM	TN	VL	13	0.0066	PASS
			TN	VH	17	0.0087	PASS



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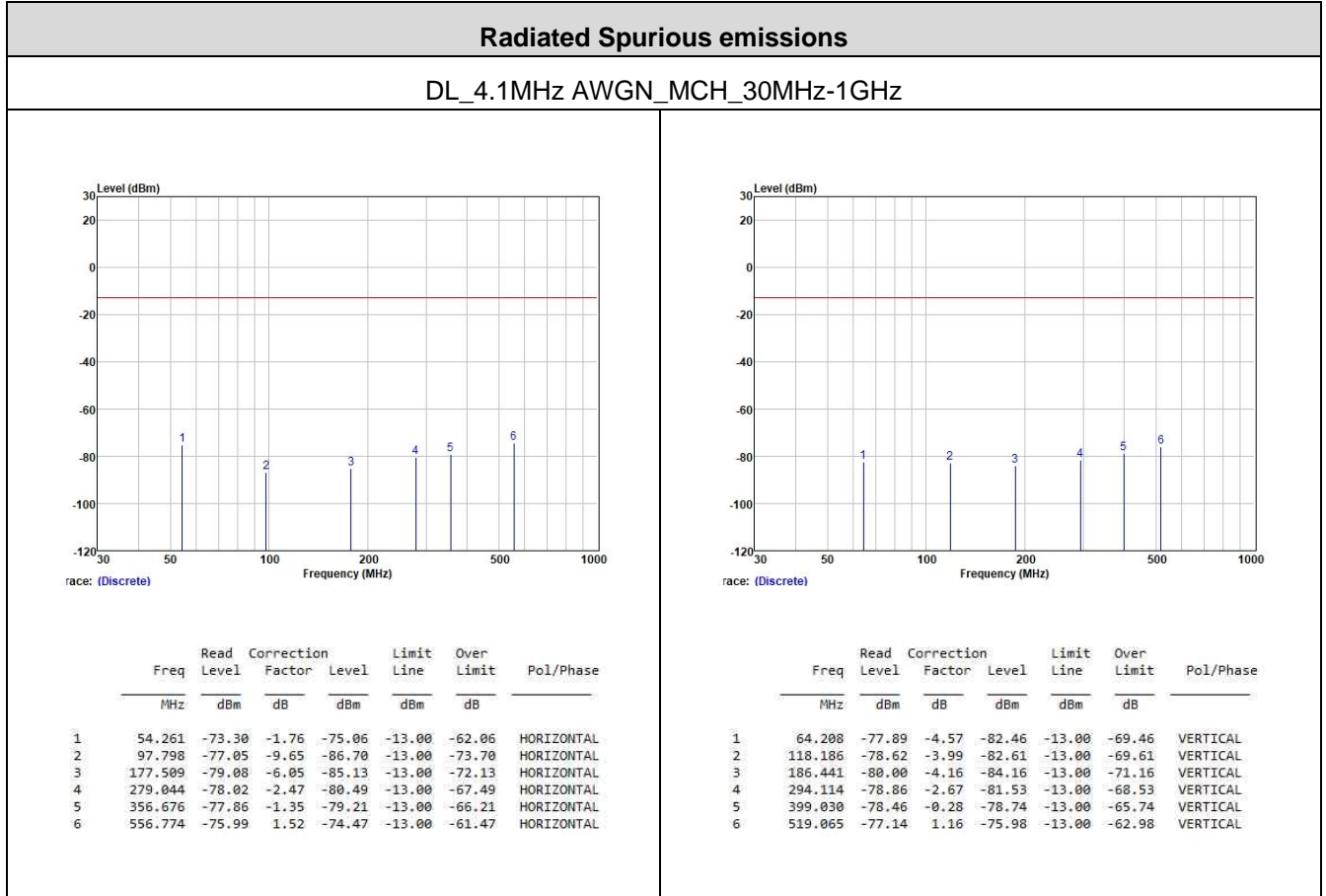
Frequency stability vs temperature							
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	1962.5	4.1MHz AWGN	VN	+50	18	0.0092	PASS
			VN	+40	23	0.0117	PASS
			VN	+30	15	0.0076	PASS
			VN	+20	19	0.0097	PASS
			VN	+10	21	0.0107	PASS
			VN	0	27	0.0138	PASS
			VN	-10	20	0.0102	PASS
			VN	-20	11	0.0056	PASS
			VN	-30	17	0.0087	PASS
	1962.5	100MHz AWGN	VN	+50	24	0.0122	PASS
			VN	+40	20	0.0102	PASS
			VN	+30	28	0.0143	PASS
			VN	+20	18	0.0092	PASS
			VN	+10	12	0.0061	PASS
			VN	0	26	0.0132	PASS
			VN	-10	21	0.0107	PASS
			VN	-20	14	0.0071	PASS
			VN	-30	19	0.0097	PASS
	1962.5	GSM	VN	+50	24	0.0122	PASS
			VN	+40	19	0.0097	PASS
			VN	+30	21	0.0107	PASS
			VN	+20	15	0.0076	PASS
			VN	+10	13	0.0066	PASS
			VN	0	19	0.0097	PASS
			VN	-10	23	0.0117	PASS
			VN	-20	17	0.0087	PASS
			VN	-30	13	0.0066	PASS



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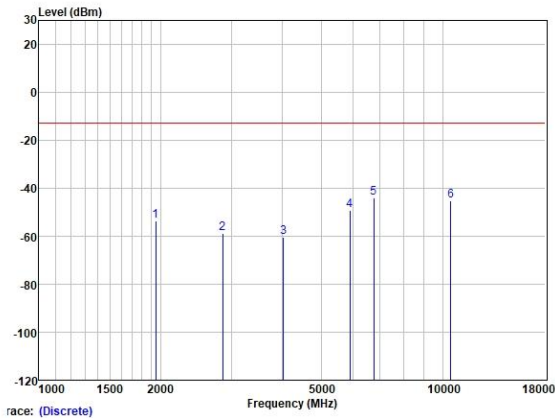
### 7 Radiated Spurious emissions



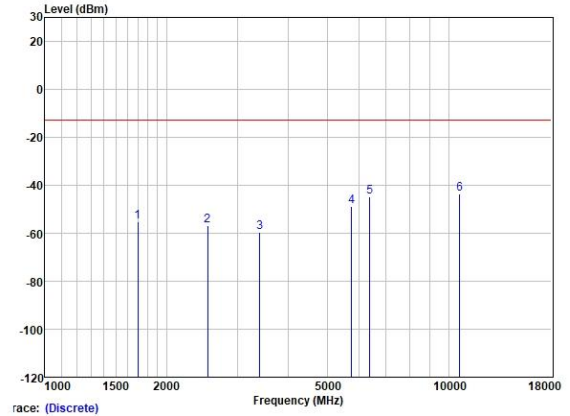


### Radiated Spurious emissions

#### DL\_4.1MHz AWGN\_MCH\_above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1949.701	-61.87	8.15	-53.72	-13.00	-40.72	HORIZONTAL
2	2855.380	-62.86	3.95	-58.91	-13.00	-45.91	HORIZONTAL
3	4039.212	-63.25	2.90	-60.35	-13.00	-47.35	HORIZONTAL
4	5898.442	-64.83	15.65	-49.18	-13.00	-36.18	HORIZONTAL
5	6756.708	-64.18	20.38	-43.80	-13.00	-30.80	HORIZONTAL
6	10484.230	-68.91	23.52	-45.39	-13.00	-32.39	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1697.129	-60.84	5.62	-55.22	-13.00	-42.22	VERTICAL
2	2528.963	-63.81	6.85	-56.96	-13.00	-43.96	VERTICAL
3	3405.929	-62.67	3.17	-59.50	-13.00	-46.50	VERTICAL
4	5746.982	-63.23	14.57	-48.66	-13.00	-35.66	VERTICAL
5	6377.195	-64.15	19.38	-44.77	-13.00	-31.77	VERTICAL
6	10636.850	-68.52	24.78	-43.74	-13.00	-30.74	VERTICAL

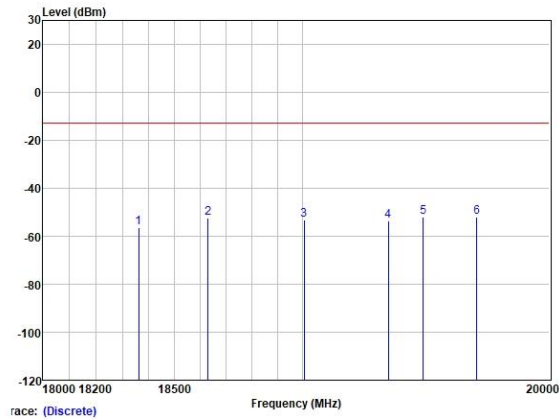


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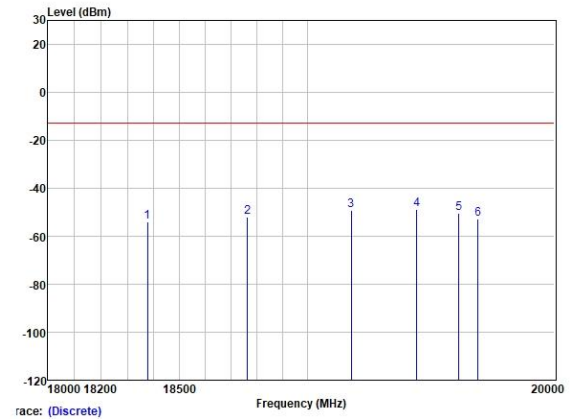
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### Radiated Spurious emissions

#### DL\_4.1MHz AWGN\_MCH\_above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	18362.940	-92.66	36.45	-56.21	-13.00	-43.21	HORIZONTAL
2	18628.780	-89.07	36.70	-52.37	-13.00	-39.37	HORIZONTAL
3	19004.390	-90.75	37.47	-53.28	-13.00	-40.28	HORIZONTAL
4	19341.200	-91.80	38.05	-53.75	-13.00	-40.75	HORIZONTAL
5	19480.700	-90.10	38.18	-51.92	-13.00	-38.92	HORIZONTAL
6	19699.700	-90.52	38.34	-52.18	-13.00	-39.18	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	18377.610	-82.72	28.53	-54.19	-13.00	-41.19	VERTICAL
2	18763.140	-82.02	29.87	-52.15	-13.00	-39.15	VERTICAL
3	19172.060	-82.10	33.01	-49.09	-13.00	-36.09	VERTICAL
4	19434.090	-82.64	34.02	-48.62	-13.00	-35.62	VERTICAL
5	19605.540	-84.85	34.47	-50.38	-13.00	-37.38	VERTICAL
6	19683.970	-87.51	34.64	-52.87	-13.00	-39.87	VERTICAL

#### Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

--End of Appendix--