

# Appendix -

## Test Data and Result for report

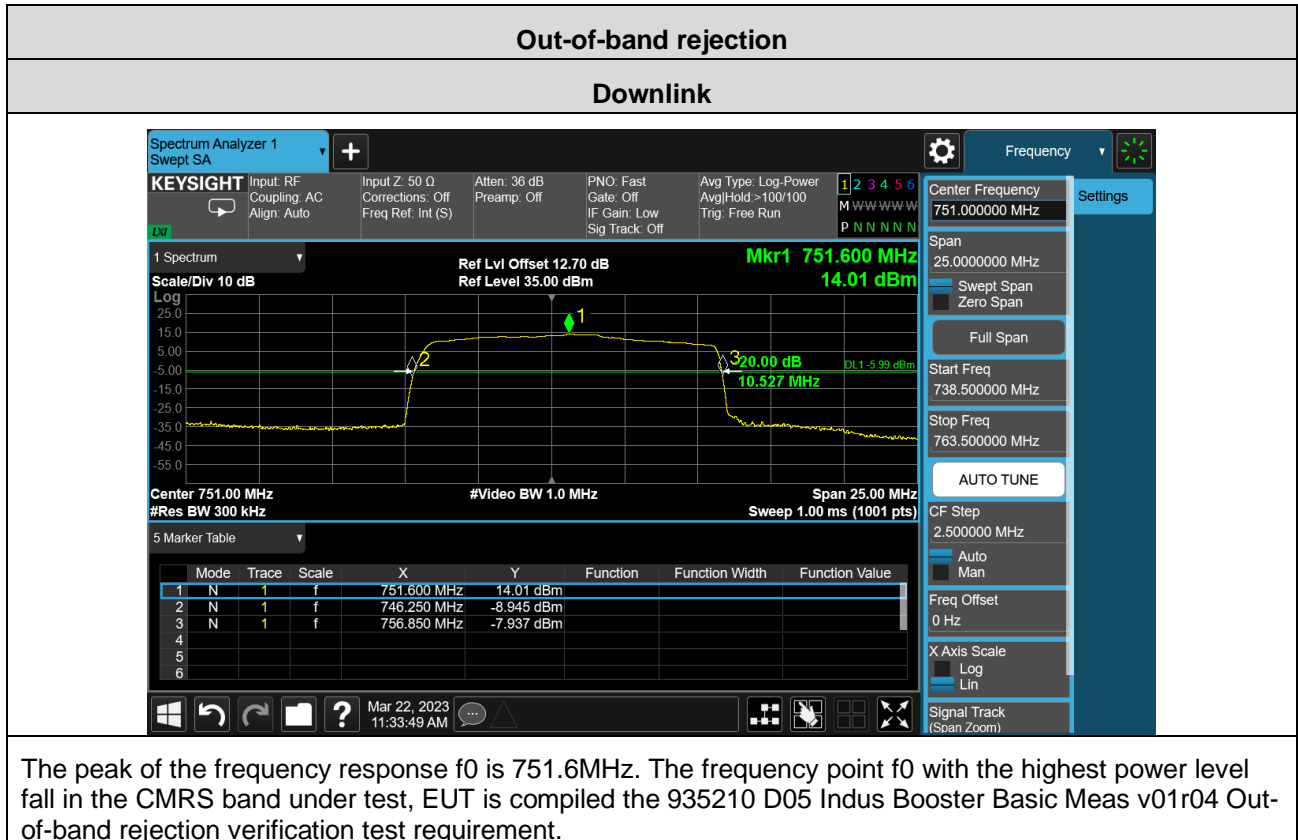
### GZCR230300022303

(Upper 700MHz band)



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### 1 Out-of-band rejection



## 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 Upper 700MHz band supports maximum channel BW is 10MHz @ NR, so the output OBW was less than the input when 100MHz AWGN was as stimulus signal.				



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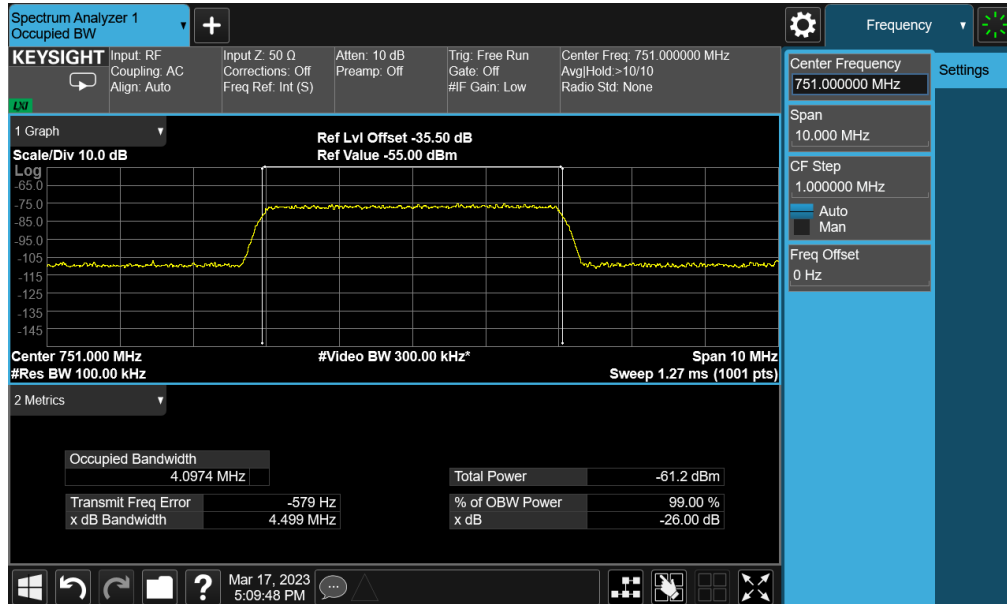
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Guangzhou Branch EEC Laboratory

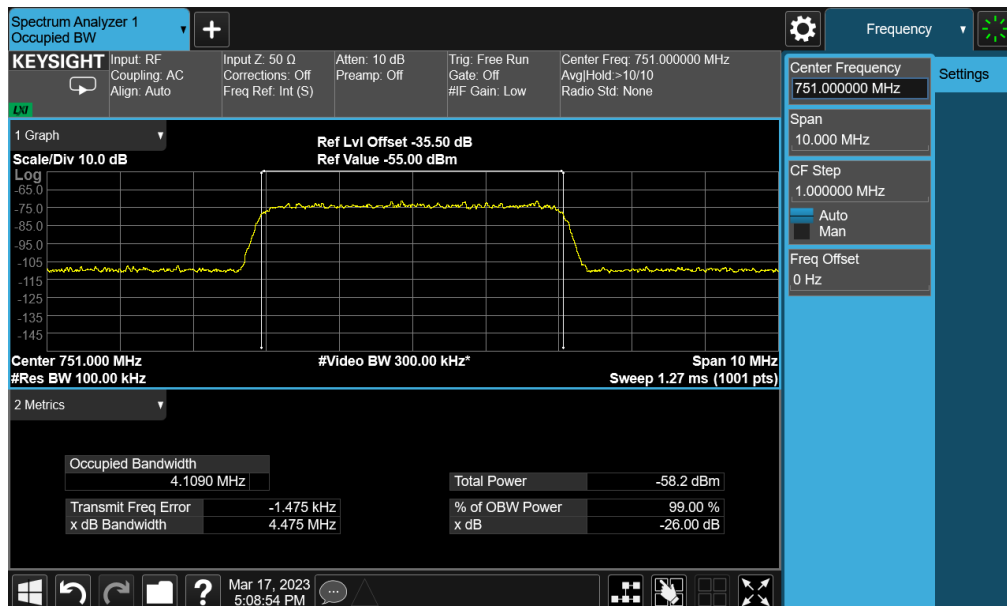
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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

### 99% OBW

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

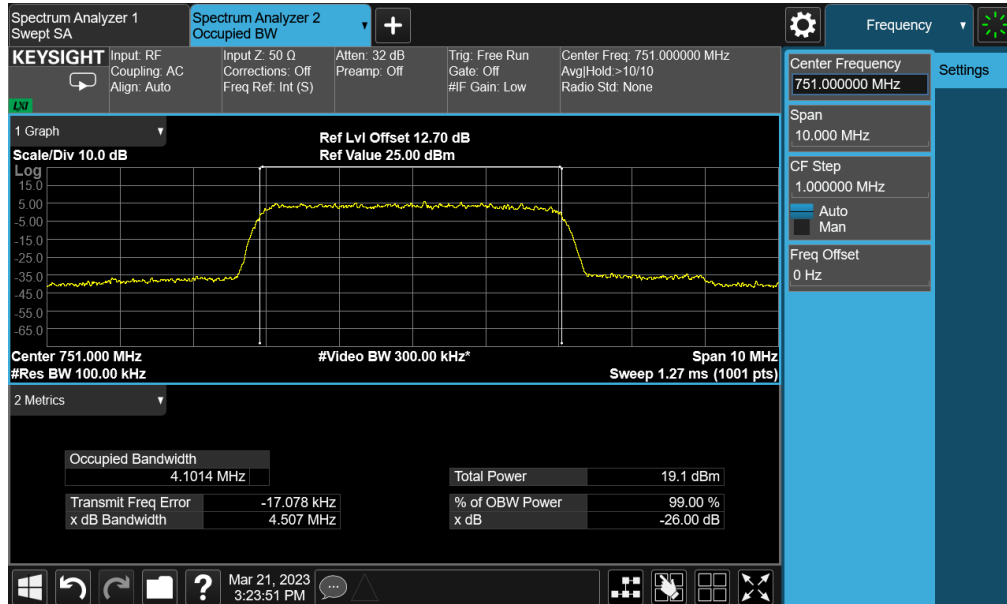


#### Downlink\_5MHz AWGN\_Middle Channel\_Input 3dB above AGC

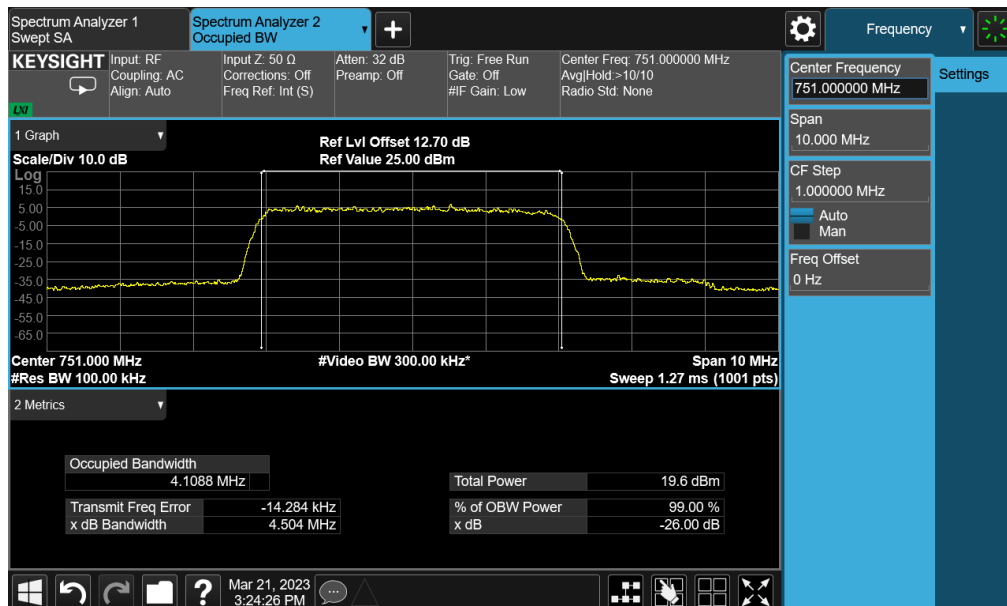


### 99% OBW

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



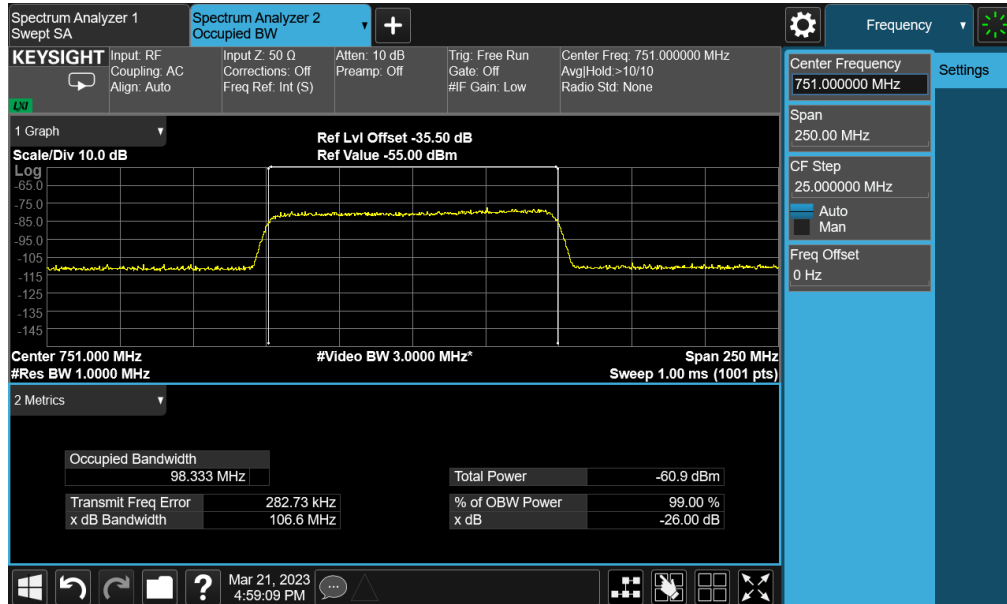
#### Downlink\_5MHz AWGN\_Middle Channel\_Output 3dB above AGC



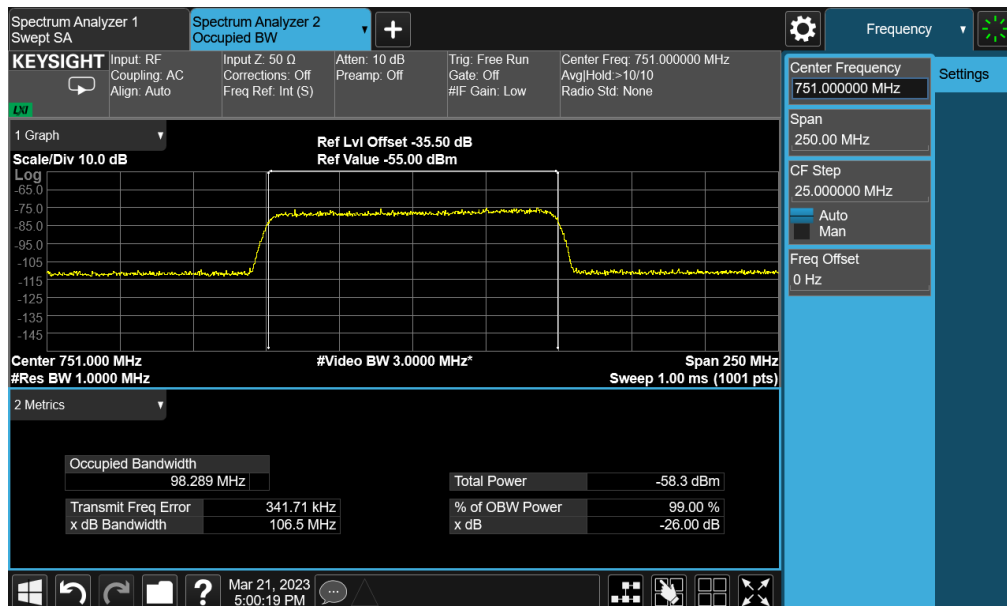


### 99% OBW

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

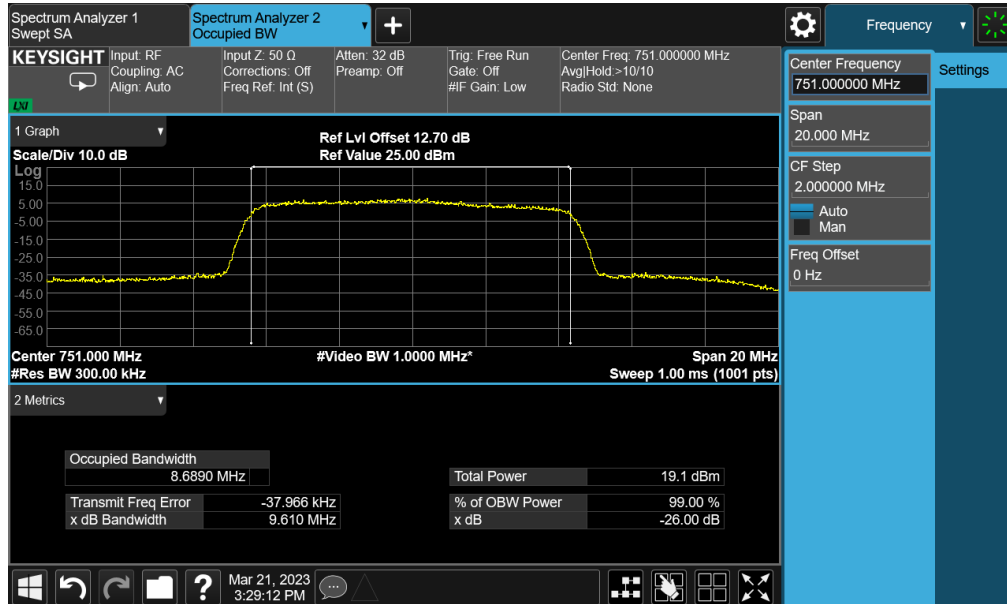


#### Downlink\_100MHz AWGN\_Middle Channel\_Input 3dB above AGC

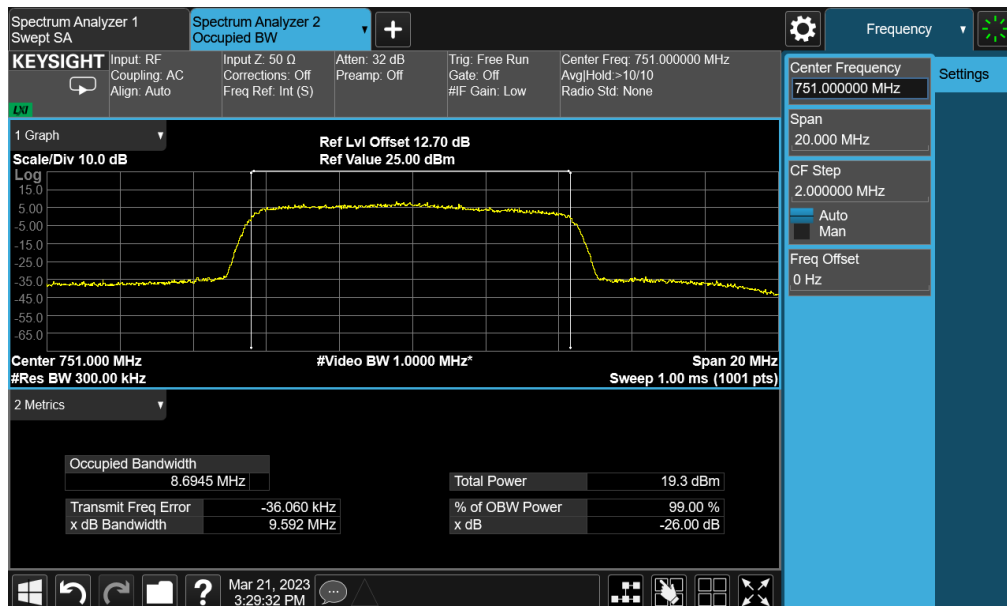


### 99% OBW

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

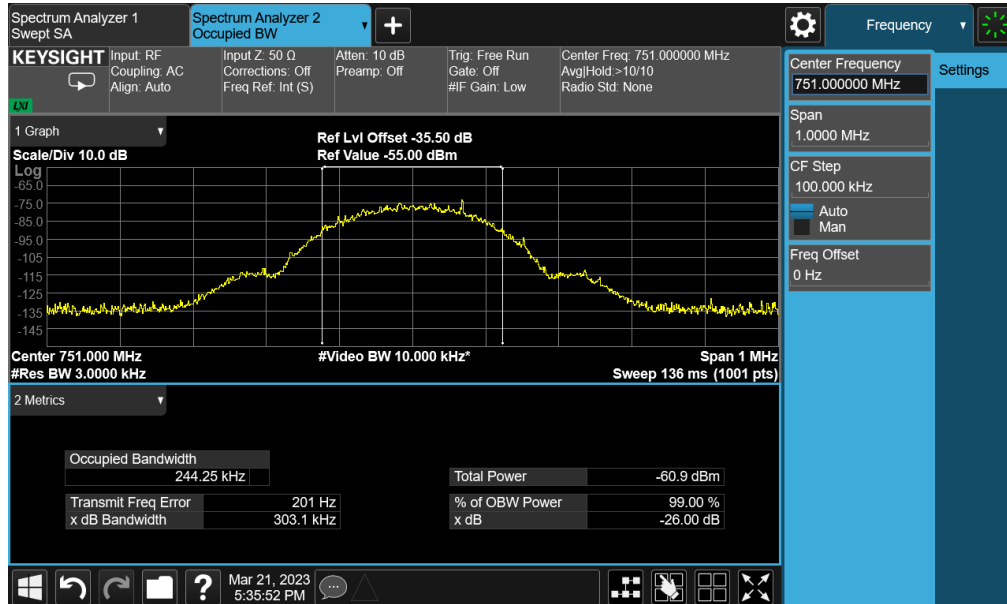


#### Downlink\_100MHz AWGN\_Middle Channel\_Output 3dB above AGC

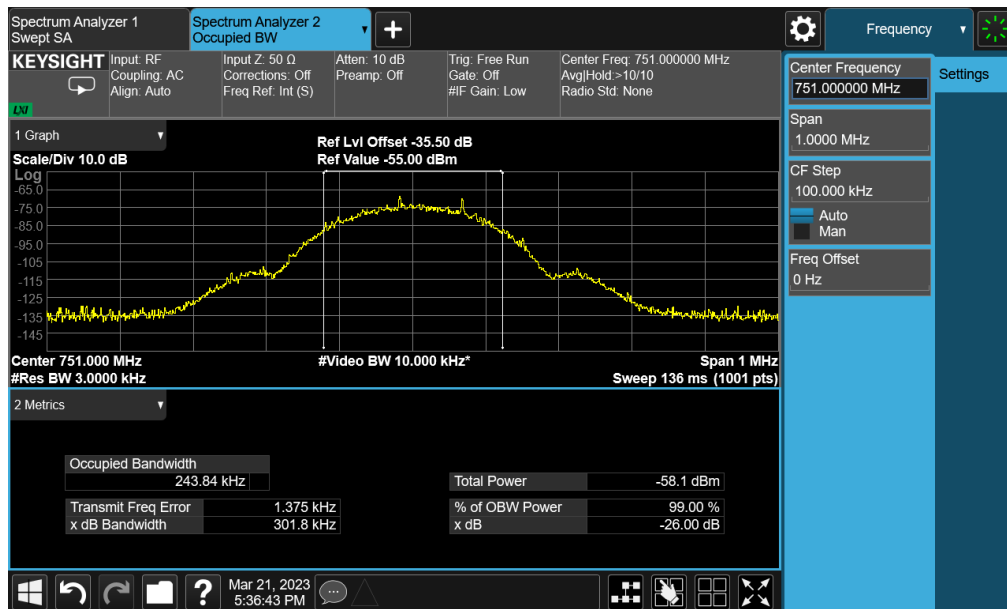


### 99% OBW

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



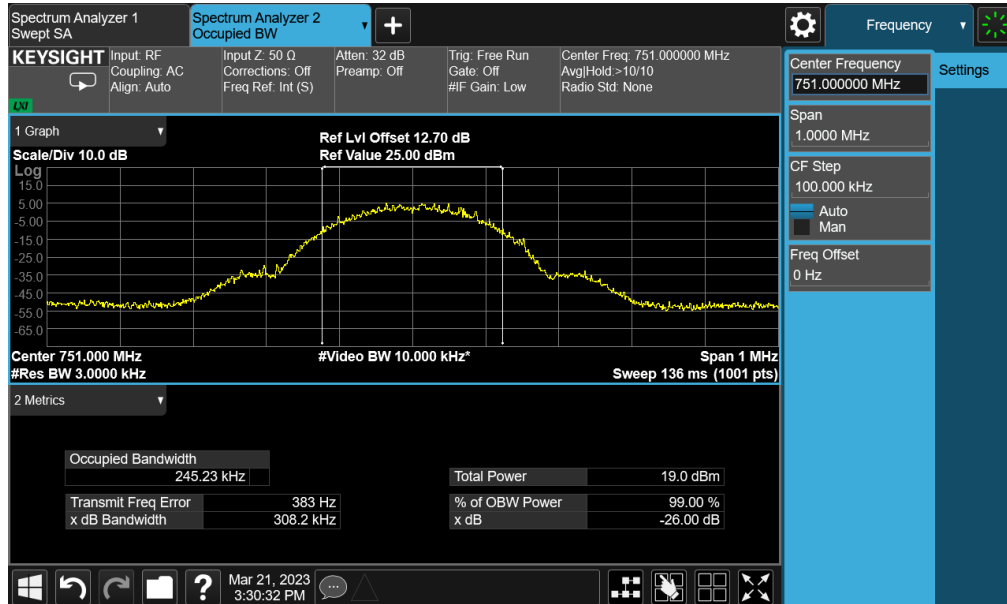
#### Downlink\_GSM\_Middle Channel\_Input 3dB above AGC



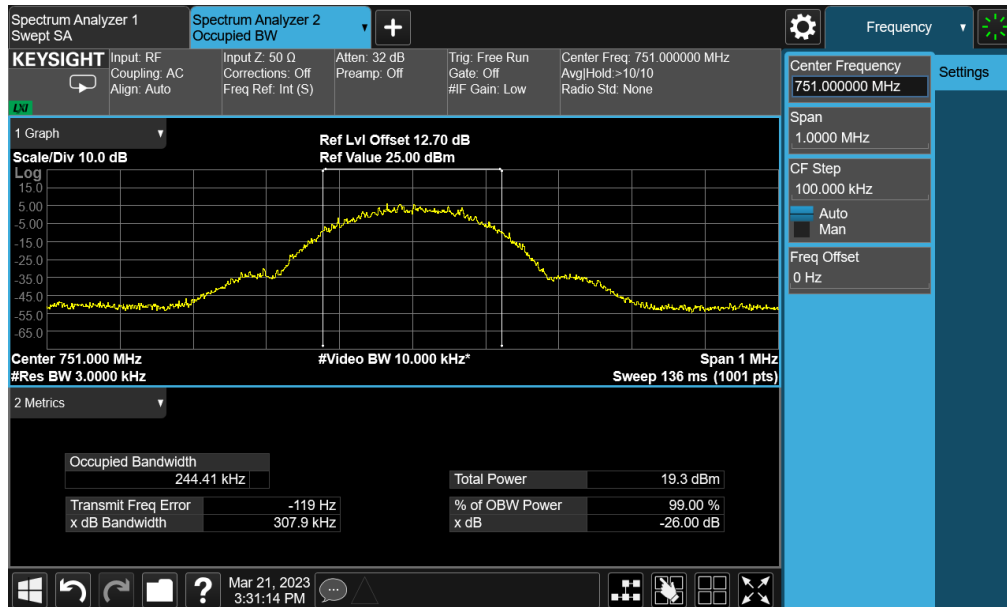


### 99% OBW

#### 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)	ERP (W)	Gain (dB)
Downlink	751.6	5MHz AWGN	Pre-AGC	-61.00	17.82	0.093	78.82
			3dB above AGC	-58.00	17.57	0.087	/
		100MHz AWGN	Pre-AGC	-61.00	13.25	0.032	74.25
			3dB above AGC	-58.00	12.83	0.029	/
		GSM	Pre-AGC	-61.00	18.88	0.118	79.88
			3dB above AGC	-58.00	18.73	0.114	/

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15dB, 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)	ERP (W/MHz)	Verdict
Downlink	751.6	5MHz AWGN	Pre-AGC	11.26	0.020	PASS
			3dB above AGC	10.95	0.019	PASS
		100MHz AWGN	Pre-AGC	2.52	0.003	PASS
			3dB above AGC	2.86	0.003	PASS
		GSM	Pre-AGC	18.72	0.114	PASS
			3dB above AGC	18.63	0.112	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 4dBi declared by the manufacturer.
3. The output power is limited to an ERP of 1000W/MHz.



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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	-38.99	≤-13	PASS
				3dB above AGC	-38.71		PASS
			Two signals input	Pre-AGC	-40.76		PASS
				3dB above AGC	-41.06		PASS
	upper edge		One signal input	Pre-AGC	-32.80		PASS
				3dB above AGC	-32.52		PASS
			Two signals input	Pre-AGC	-30.27		PASS
				3dB above AGC	-30.14		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	-45.35	≤-13	PASS
				3dB above AGC	-45.86		PASS
			Two signals input	Pre-AGC	-43.64		PASS
				3dB above AGC	-42.97		PASS
	upper edge		One signal input	Pre-AGC	-23.62		PASS
				3dB above AGC	-23.28		PASS
			Two signals input	Pre-AGC	-24.08		PASS
				3dB above AGC	-24.34		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							



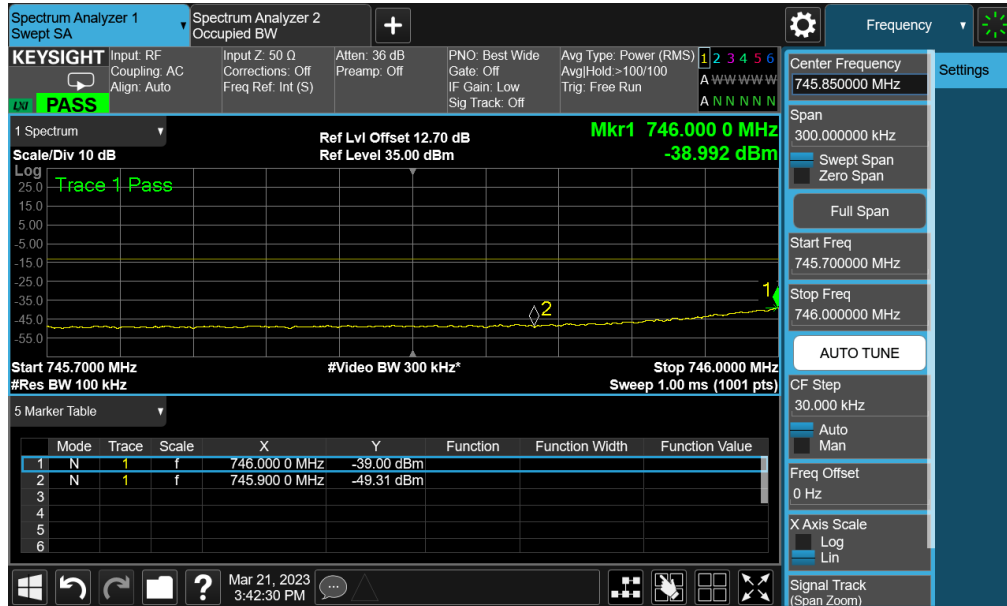
Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
Downlink	lower edge	GSM	One signal input	Pre-AGC	-33.36	≤-13	PASS
				3dB above AGC	-33.05		PASS
			Two signals input	Pre-AGC	-33.30		PASS
				3dB above AGC	-33.57		PASS
	upper edge		One signal input	Pre-AGC	-35.61		PASS
				3dB above AGC	-34.70		PASS
			Two signals input	Pre-AGC	-36.19		PASS
				3dB above AGC	-36.77		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							



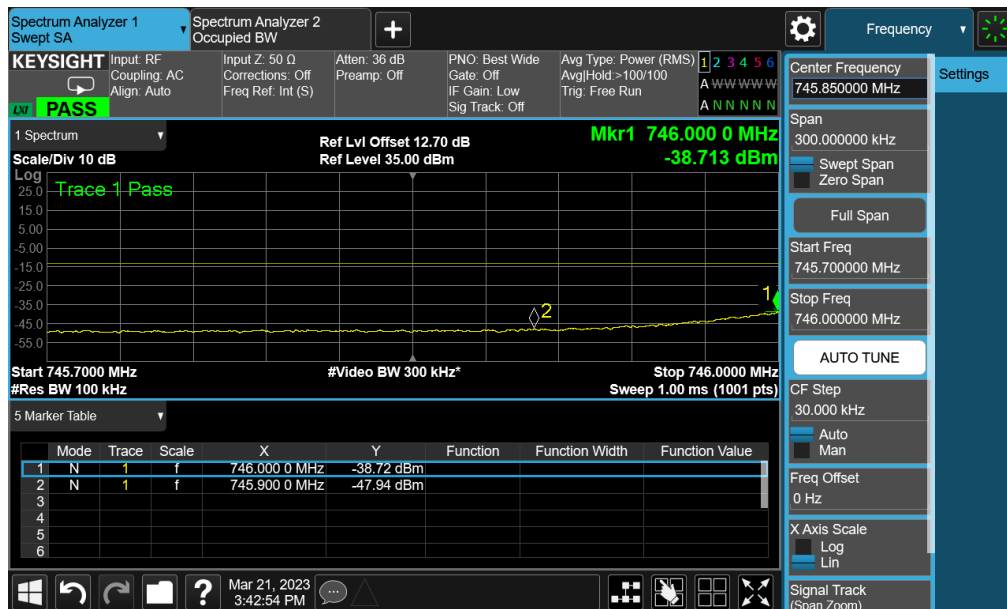


### Out-of-band/out-of-block emissions

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



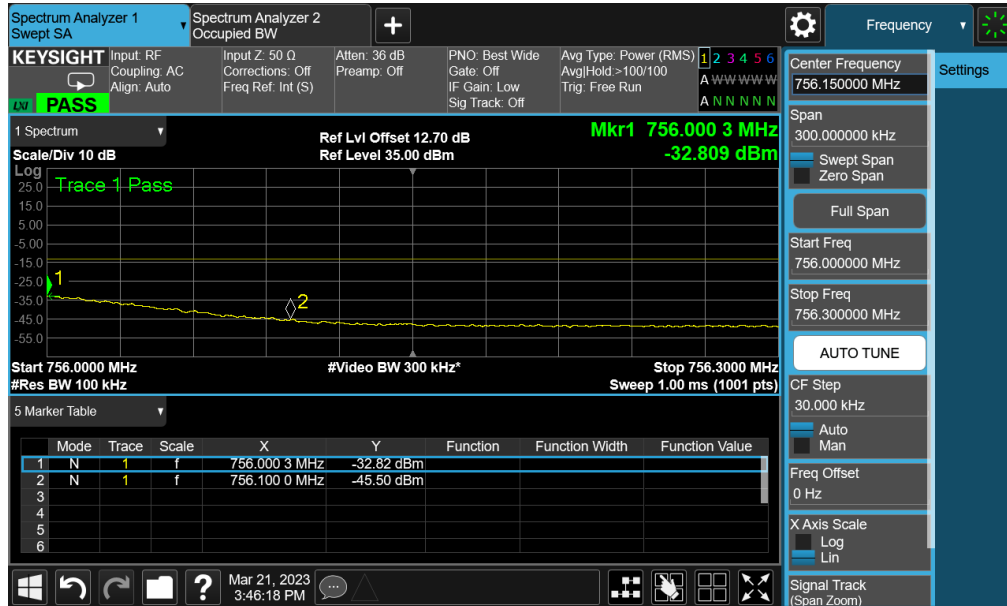
#### Downlink\_5MHz AWGN\_One signal input\_3dB above AGC\_Lower edge



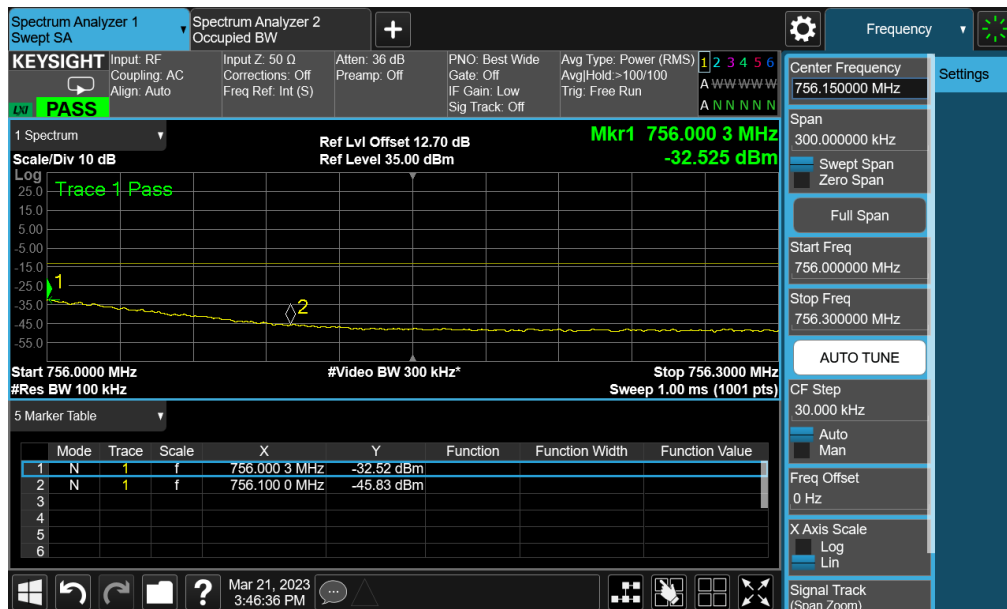


### Out-of-band/out-of-block emissions

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

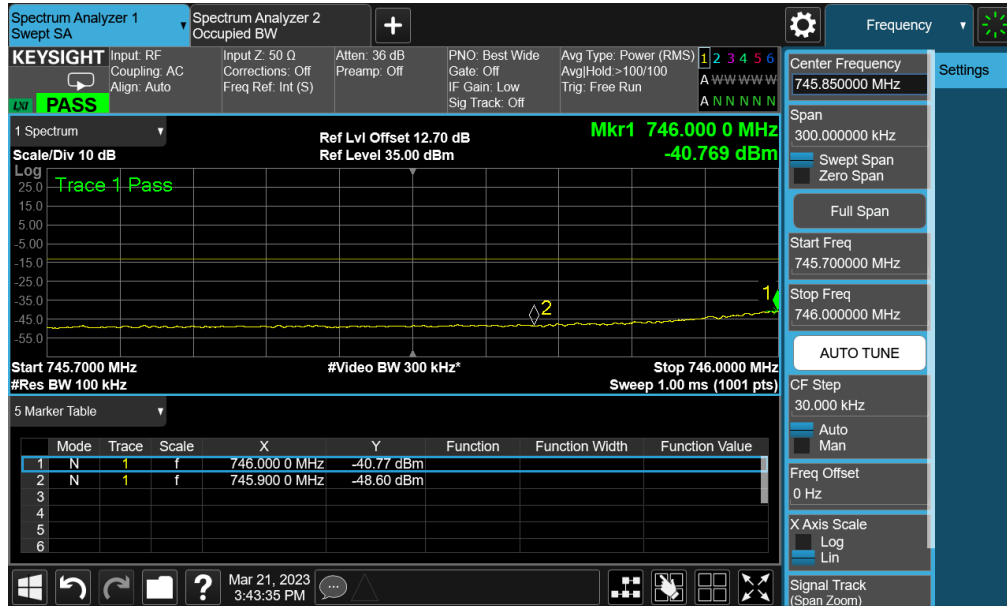


#### Downlink\_5MHz AWGN\_One signal input\_3dB above AGC\_Upper edge

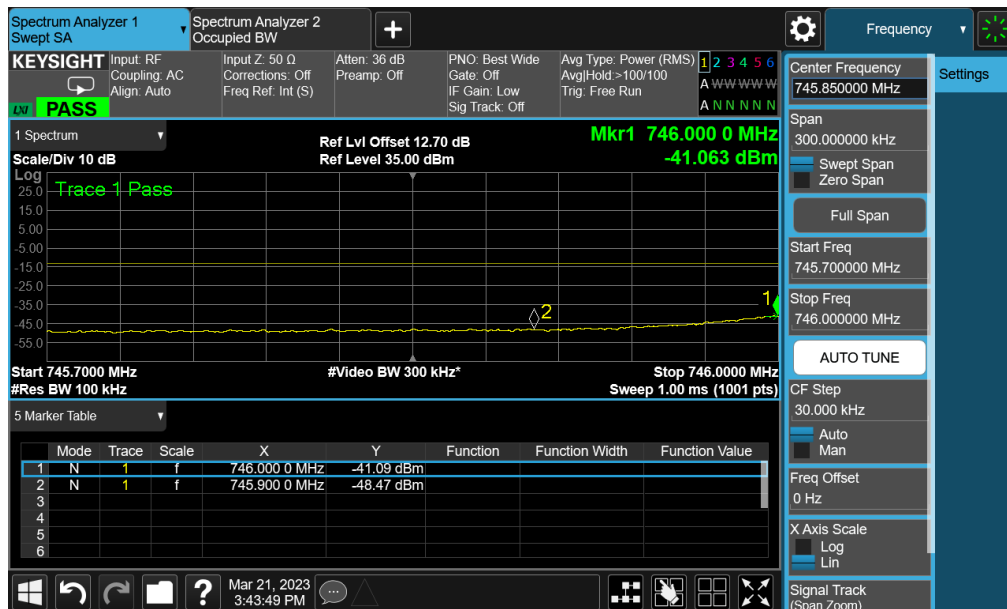


### Out-of-band/out-of-block emissions

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



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

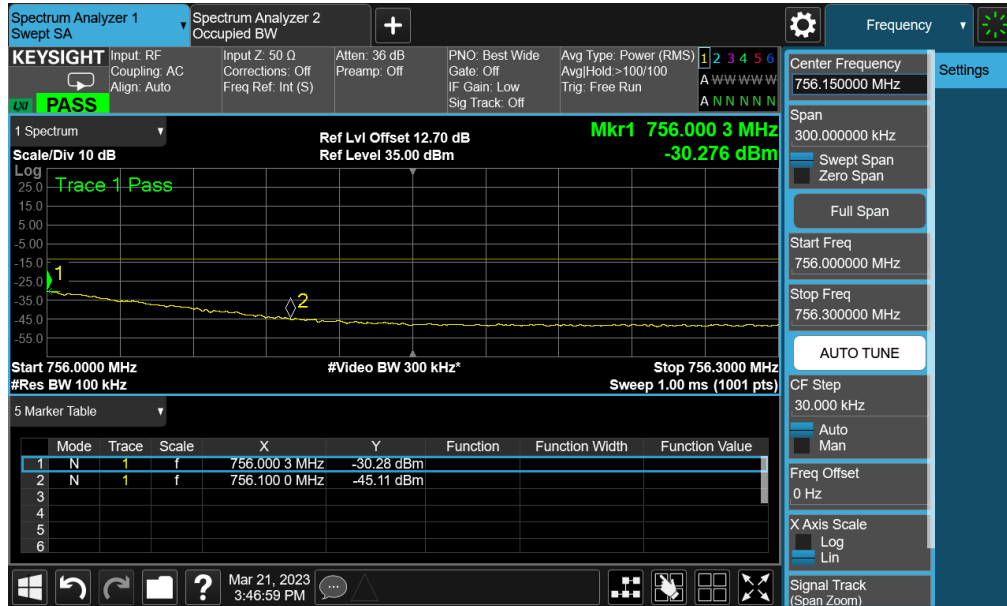


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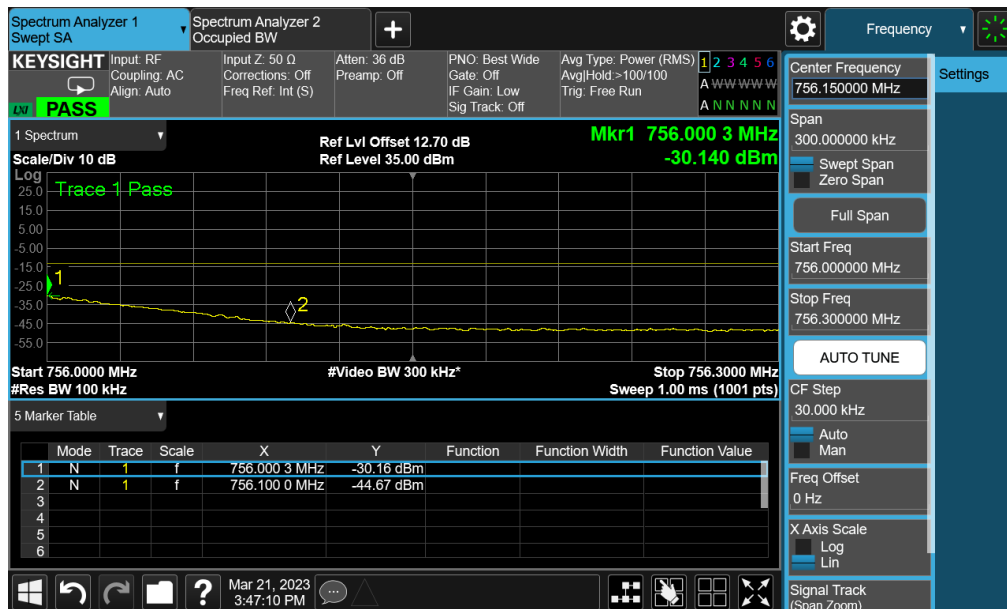
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### Out-of-band/out-of-block emissions

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

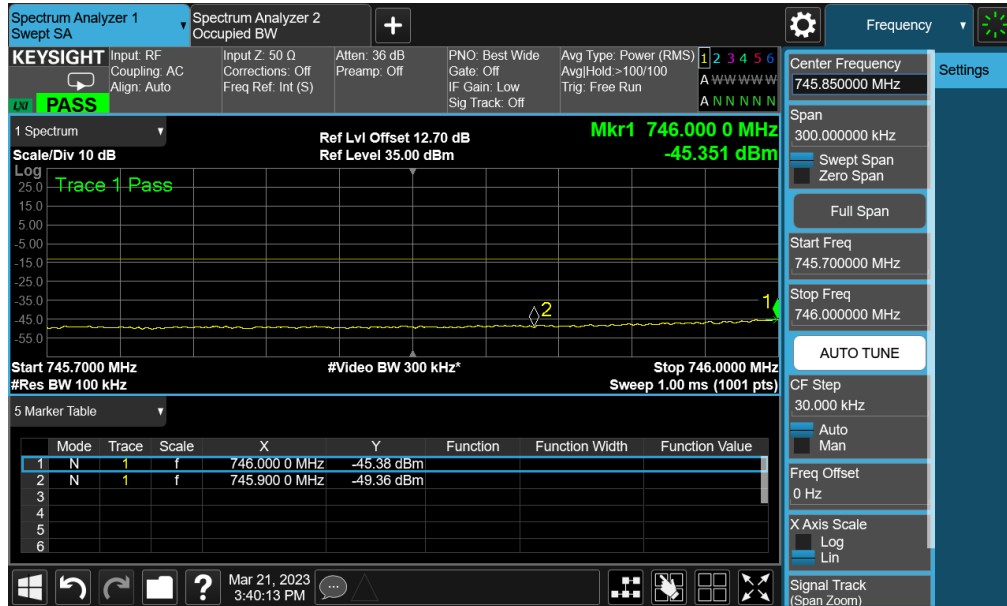


#### Downlink\_5MHz AWGN\_Two signals input\_3dB above AGC\_Upper edge

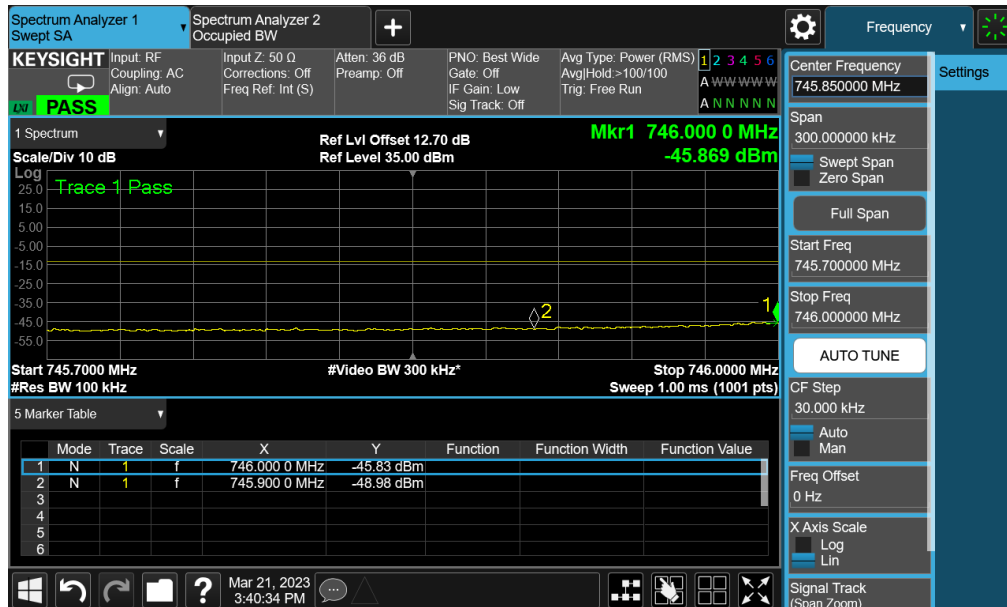


### Out-of-band/out-of-block emissions

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



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



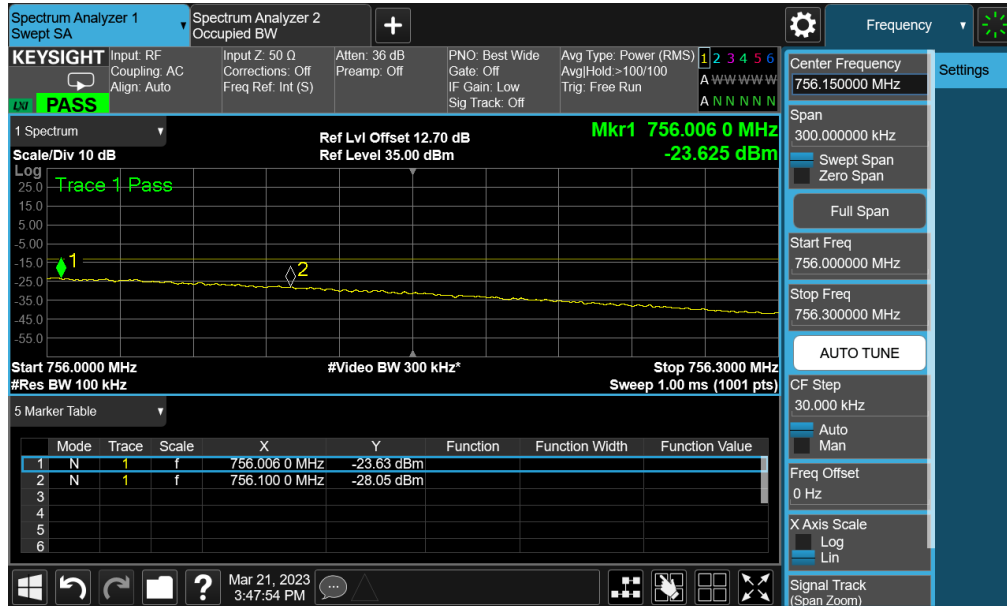
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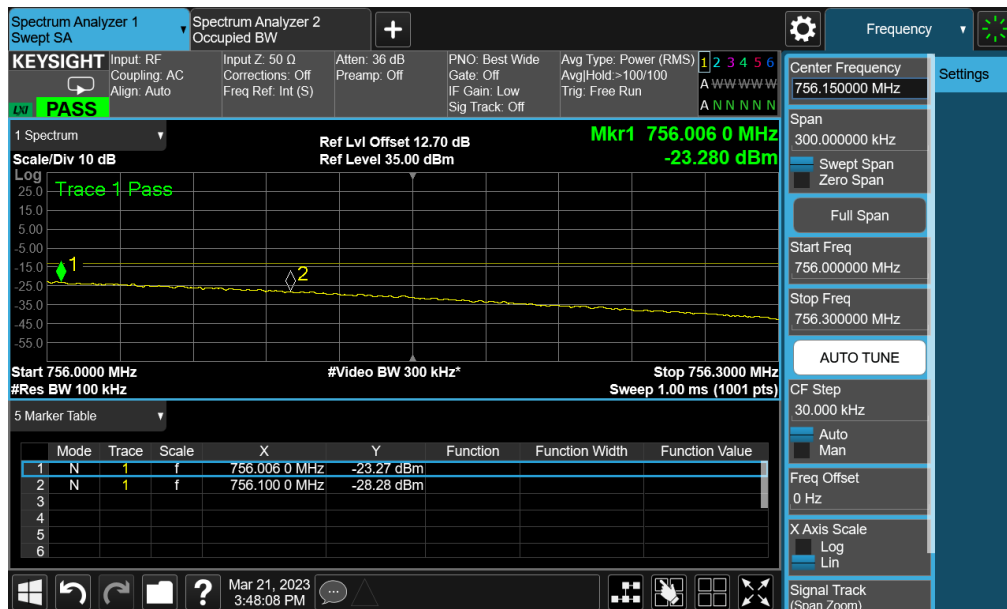


### Out-of-band/out-of-block emissions

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



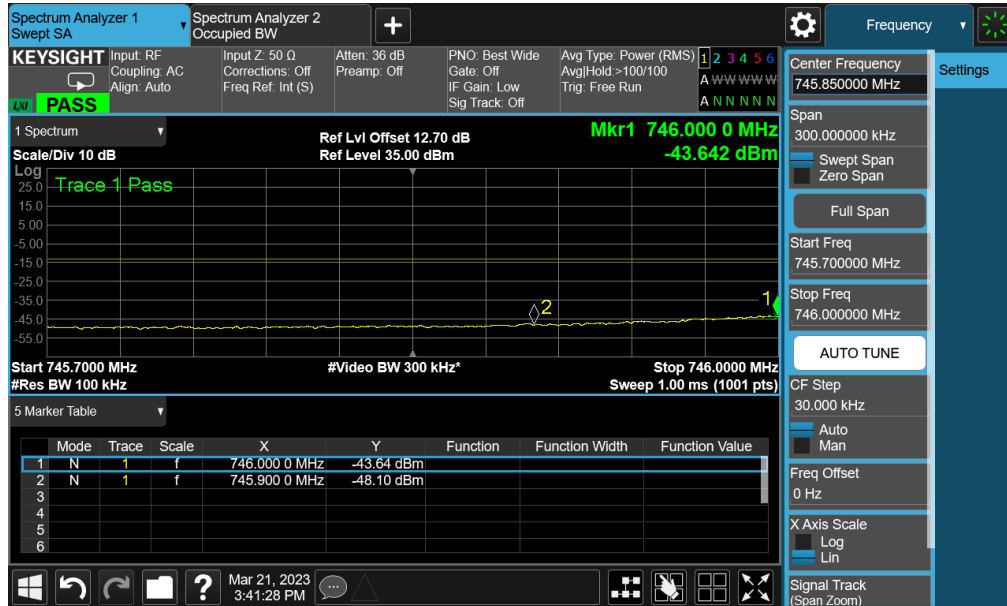
#### Downlink\_100MHz AWGN\_One signal input\_3dB above AGC\_Upper edge



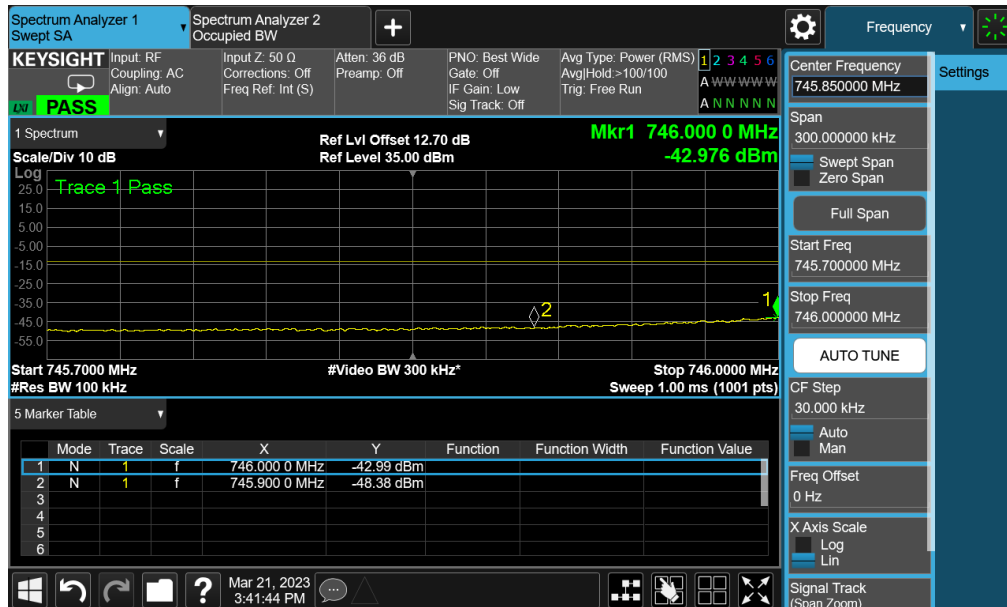


### Out-of-band/out-of-block emissions

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



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

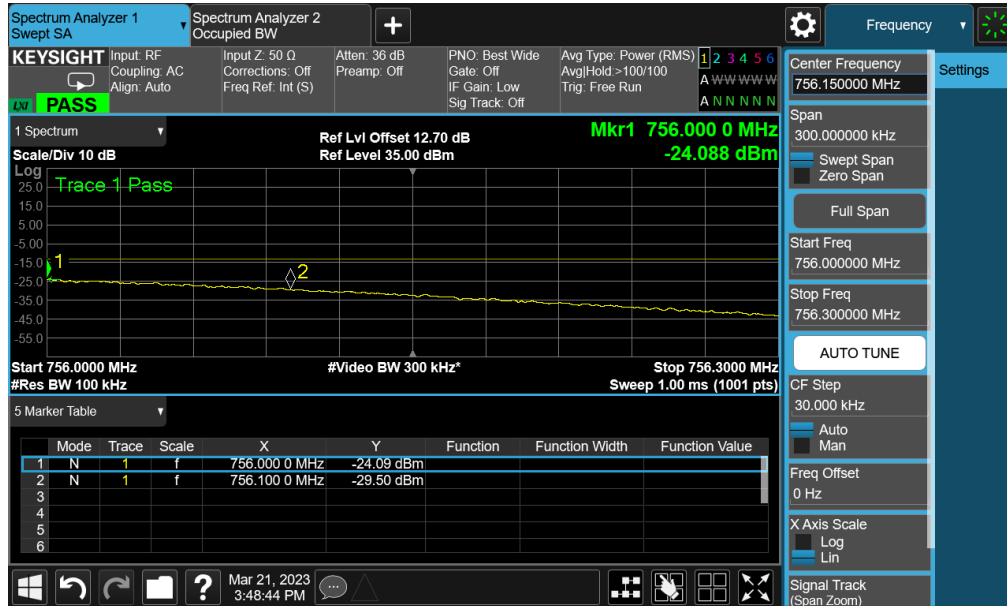


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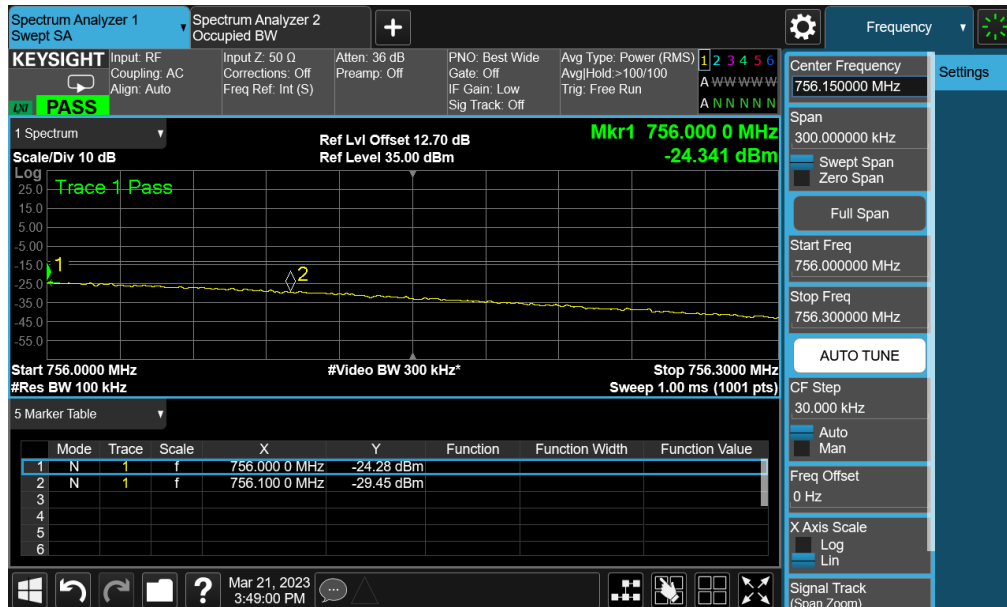
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### Out-of-band/out-of-block emissions

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

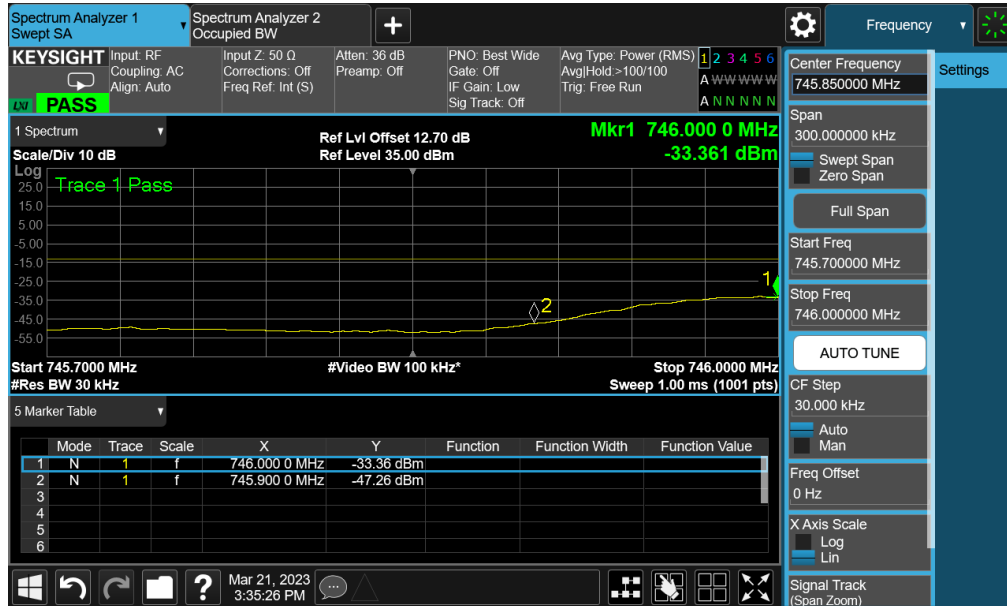


#### Downlink\_100MHz AWGN\_Two signals input\_3dB above AGC\_Upper edge

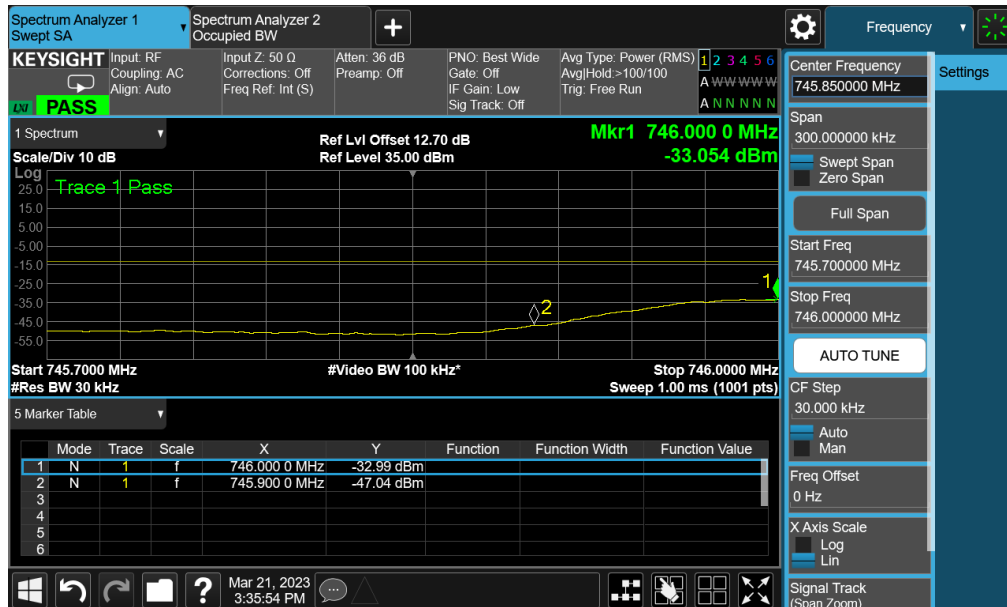


### Out-of-band/out-of-block emissions

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



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

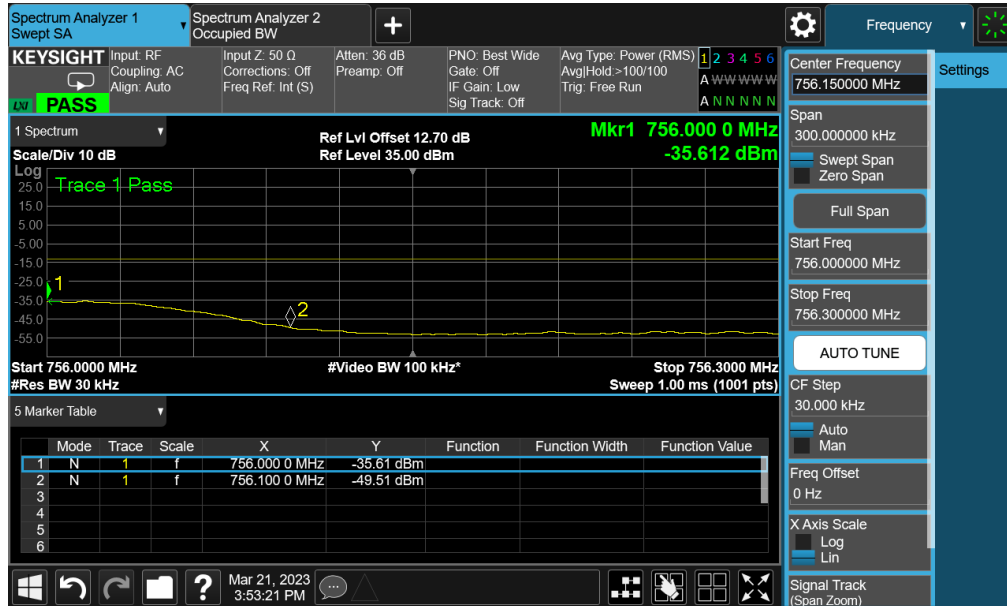


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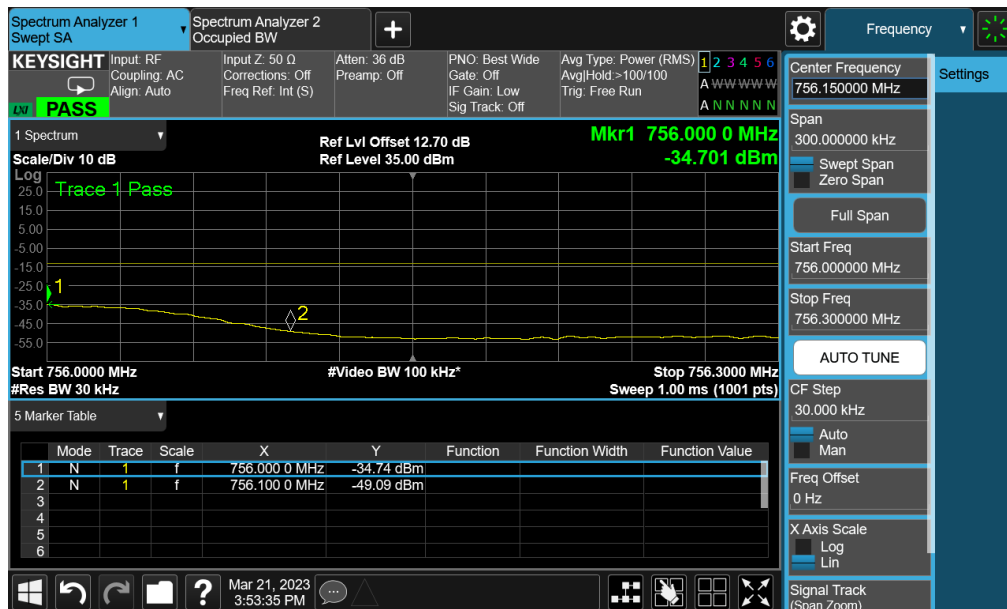
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### Out-of-band/out-of-block emissions

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



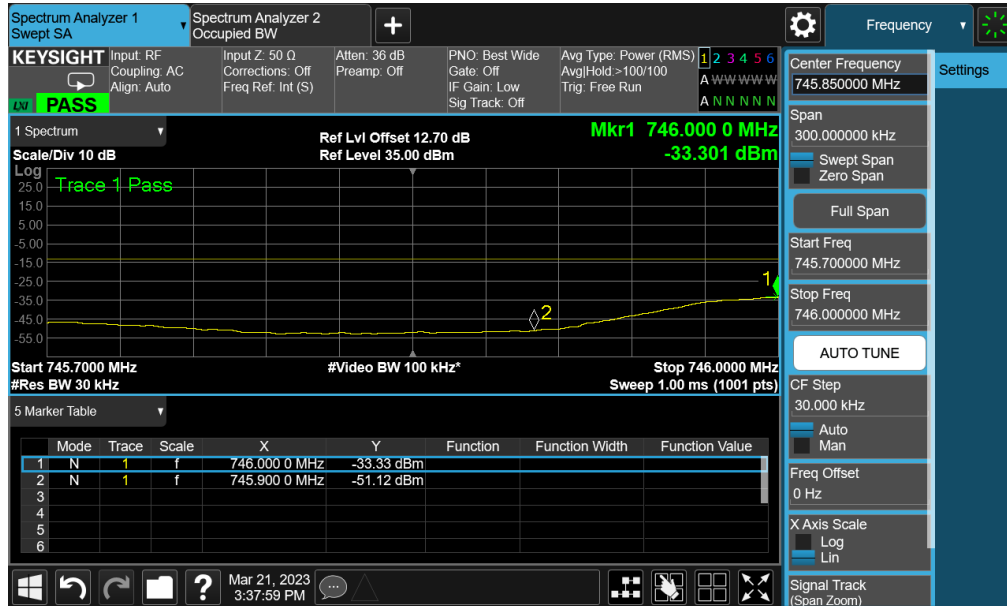
#### Downlink\_GSM\_One signal input\_3dB above AGC\_Upper edge



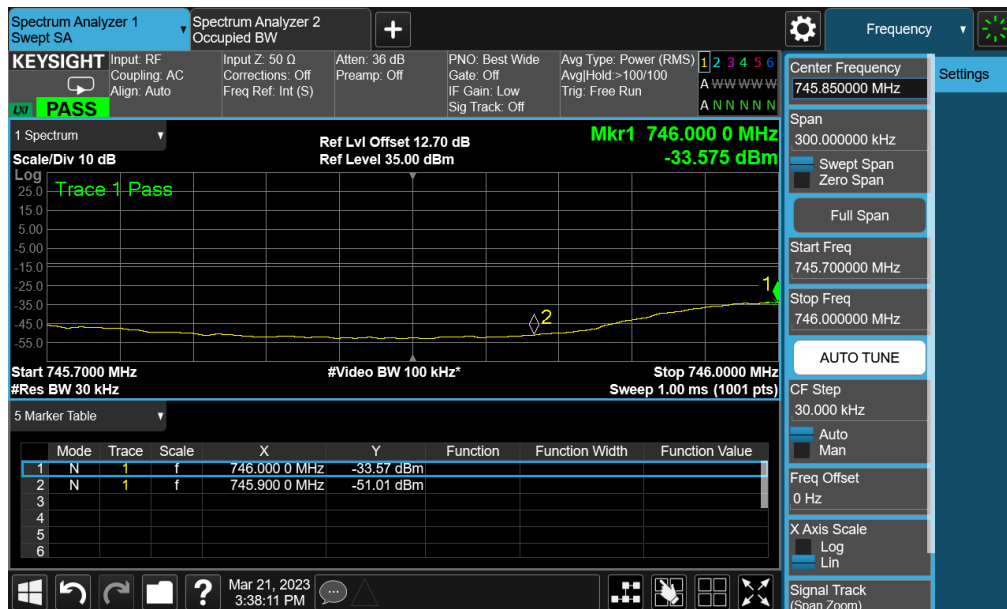


### Out-of-band/out-of-block emissions

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



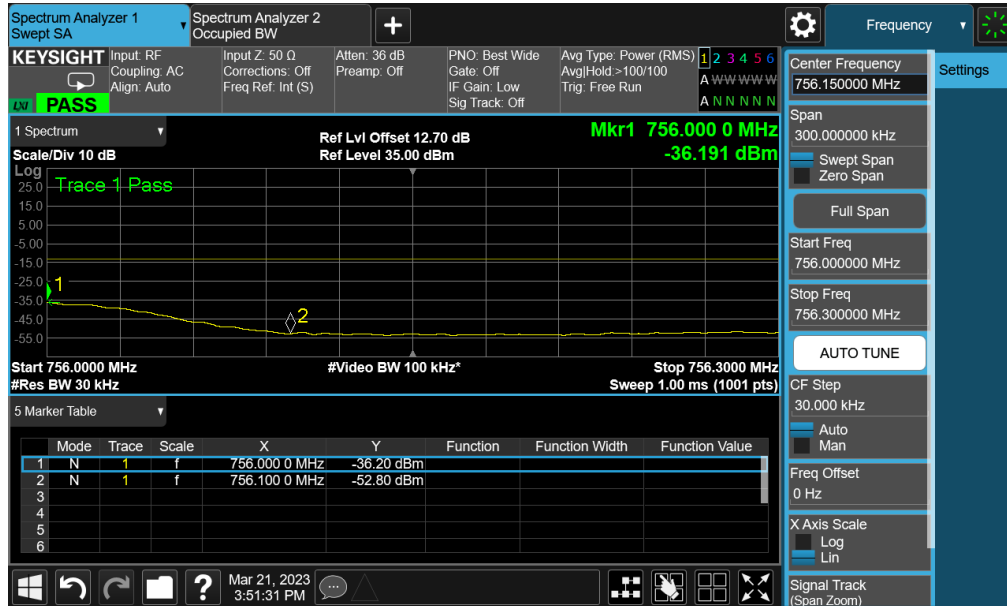
#### Downlink\_GSM\_Two signals input\_3dB above AGC\_Lower edge



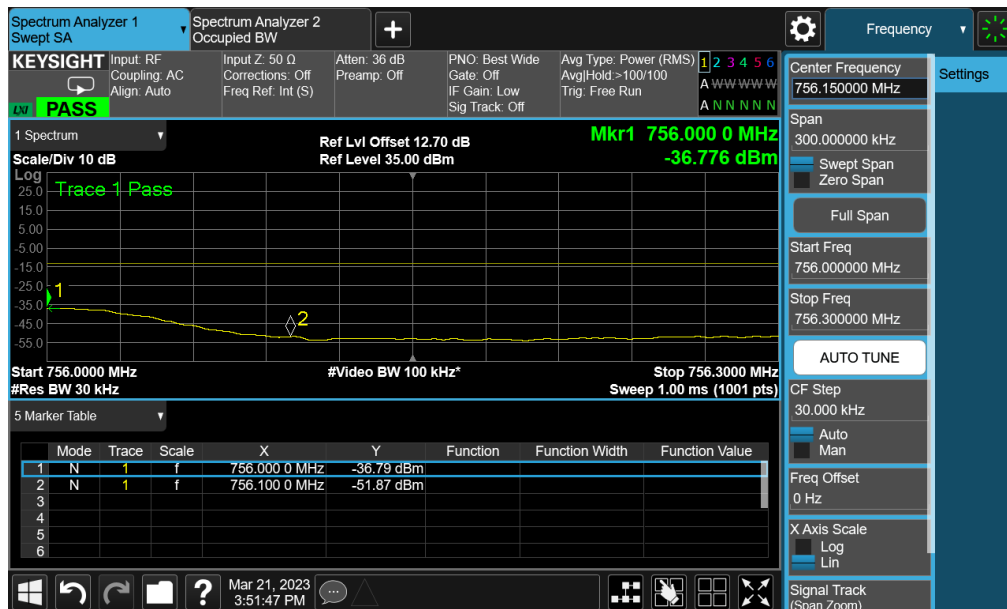


### Out-of-band/out-of-block emissions

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



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



## 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	0.009-745.9	-40.23	≤-13	PASS
				756.1-1000	-33.64	≤-13	PASS
				1000-8000	-41.32	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-745.9	-39.74	≤-13	PASS
				756.1-1000	-35.26	≤-13	PASS
				1000-8000	-36.27	≤-13	PASS
		GSM	Pre-AGC	0.009-745.9	-36.84	≤-13	PASS
				756.1-1000	-31.83	≤-13	PASS
				1000-8000	-40.35	≤-13	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	0.009-745.9	-40.32	≤-13	PASS
				756.1-1000	-41.23	≤-13	PASS
				1000-8000	-38.48	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-745.9	-33.47	≤-13	PASS
				756.1-1000	-31.23	≤-13	PASS
				1000-8000	-38.48	≤-13	PASS
		GSM	Pre-AGC	0.009-745.9	-37.47	≤-13	PASS
				756.1-1000	-36.21	≤-13	PASS
				1000-8000	-33.24	≤-13	PASS
	Low Channel	5MHz AWGN	Pre-AGC	0.009-745.9	-40.32	≤-13	PASS
				756.1-1000	-35.38	≤-13	PASS
				1000-8000	-40.05	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-745.9	-33.47	≤-13	PASS
				756.1-1000	-31.23	≤-13	PASS
				1000-8000	-36.73	≤-13	PASS
		GSM	Pre-AGC	0.009-745.9	-38.96	≤-13	PASS
				756.1-1000	-34.62	≤-13	PASS
				1000-8000	-31.36	≤-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

Conducted spurious emissions						
Test Path	Test Channel	Test Signal	Signal Level	Frequency range (MHz)	Worst conducted test level (dBm)	Verdict
Downlink	High Channel	5MHz AWGN	Pre-AGC	1559-1610	-47.12	PASS
		100MHz AWGN	Pre-AGC	1559-1610	-46.44	PASS
		GSM	Pre-AGC	1559-1610	-46.98	PASS
	Middle Channel	5MHz AWGN	Pre-AGC	1559-1610	-47.43	PASS
		100MHz AWGN	Pre-AGC	1559-1610	-46.85	PASS
		GSM	Pre-AGC	1559-1610	-47.83	PASS
	Low Channel	5MHz AWGN	Pre-AGC	1559-1610	-47.11	PASS
		100MHz AWGN	Pre-AGC	1559-1610	-48.21	PASS
		GSM	Pre-AGC	1559-1610	-46.82	PASS

**Remark:**

- EIRP= conducted test level (dBW)+ antenna gain (dBi), the antenna gain is 4dBi declared by the manufacturer.
- The EIRP of worst spurious emissions @ 1559-1610MHz is -46.44dBm+ 4dBi= -42.44dBm= -72.44dBW, which doesn't exceed -70dBW [-40dBm/MHz] limit.
- No discrete emissions of less than 700Hz bandwidth were detected.



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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	751	+50	48	32	0.0426	PASS
		+40	48	25	0.0333	PASS
		+30	48	18	0.0240	PASS
		+20	48	26	0.0346	PASS
		+10	48	16	0.0213	PASS
		0	48	32	0.0426	PASS
		-10	48	21	0.0280	PASS
		-20	48	15	0.0200	PASS
		-30	48	19	0.0253	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V DC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Downlink	751	40.8	20	18	0.0240	PASS
		55.2	20	24	0.0320	PASS



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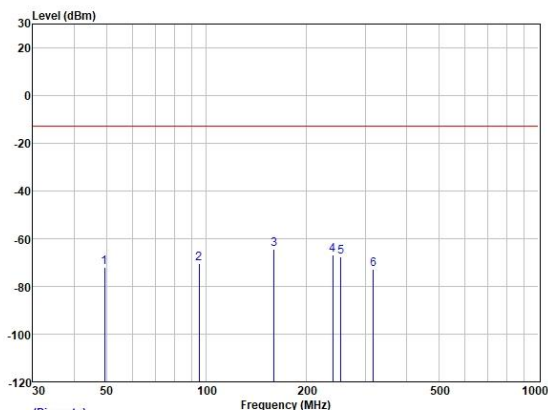


### 7 Radiated Spurious emissions

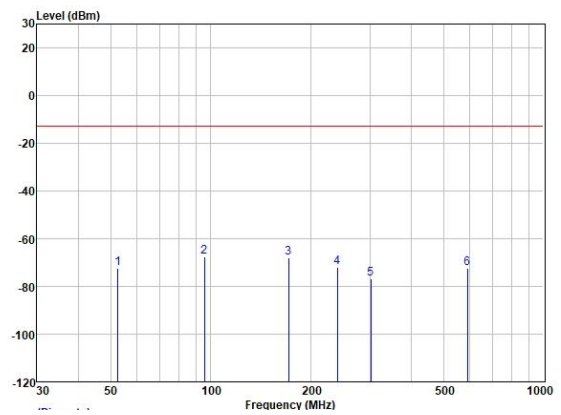
All modes (Lowest/Middle/Highest Channels, 5MHz AWGN input signal/100MHz AWGN input signal / GSM input signal) have been tested and only the worst test result was recorded in this report.

#### 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	49.359	-70.30	-1.59	-71.89	-13.00	-58.89	HORIZONTAL
2	95.093	-60.90	-9.68	-70.58	-13.00	-57.58	HORIZONTAL
3	159.784	-58.14	-6.46	-64.60	-13.00	-51.60	HORIZONTAL
4	239.987	-60.72	-6.16	-66.88	-13.00	-53.88	HORIZONTAL
5	253.837	-62.65	-5.05	-67.70	-13.00	-54.70	HORIZONTAL
6	317.701	-69.51	-3.20	-72.71	-13.00	-59.71	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	52.575	-66.53	-5.90	-72.43	-13.00	-59.43	VERTICAL
2	95.762	-61.70	-5.78	-67.48	-13.00	-54.48	VERTICAL
3	171.393	-63.95	-3.94	-67.89	-13.00	-54.89	VERTICAL
4	239.987	-65.21	-6.69	-71.90	-13.00	-58.90	VERTICAL
5	302.481	-74.09	-2.65	-76.74	-13.00	-63.74	VERTICAL
6	590.974	-76.00	3.65	-72.35	-13.00	-59.35	VERTICAL



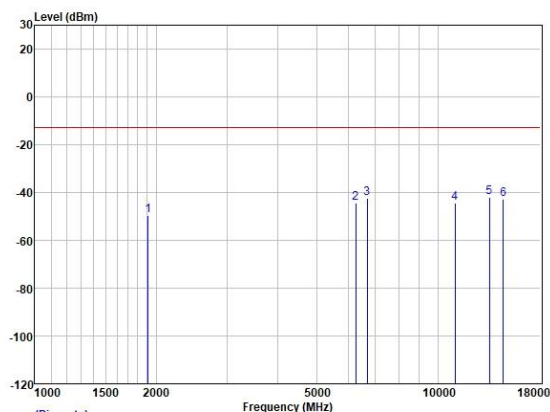
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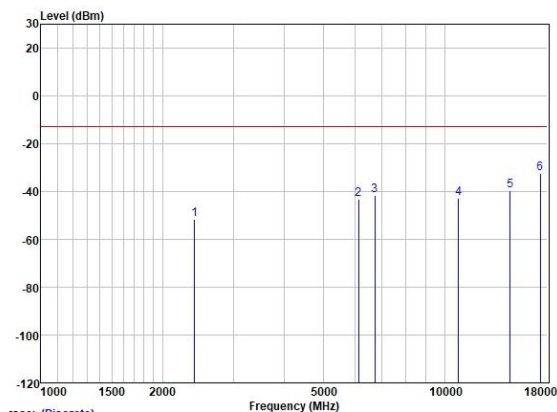


### Radiated Spurious emissions

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



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	Level	Factor	Level	Line	Limit	
	MHz	dBm	dB	dBm	dBm	dB	
1	1910.650	-56.25	6.73	-49.52	-13.00	-36.52	HORIZONTAL
2	6249.464	-63.45	19.14	-44.31	-13.00	-31.31	HORIZONTAL
3	6679.040	-62.59	20.25	-42.34	-13.00	-29.34	HORIZONTAL
4	11044.130	-68.32	23.84	-44.48	-13.00	-31.48	HORIZONTAL
5	13442.810	-70.13	28.04	-42.09	-13.00	-29.09	HORIZONTAL
6	14533.910	-67.00	24.35	-42.65	-13.00	-29.65	HORIZONTAL



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	Level	Factor	Level	Line	Limit	
	MHz	dBm	dB	dBm	dBm	dB	
1	2400.753	-61.68	9.94	-51.74	-13.00	-38.74	VERTICAL
2	6124.292	-62.16	19.12	-43.04	-13.00	-30.04	VERTICAL
3	6717.762	-62.57	20.83	-41.74	-13.00	-28.74	VERTICAL
4	10822.920	-67.42	24.77	-42.65	-13.00	-29.65	VERTICAL
5	14533.910	-67.00	27.40	-39.60	-13.00	-26.60	VERTICAL
6	17236.280	-69.21	36.68	-32.53	-13.00	-19.53	VERTICAL

--End of Appendix--



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