

Appendix -

Test Data and Result for report

GZCR230300022406

(Broadband PCS band)

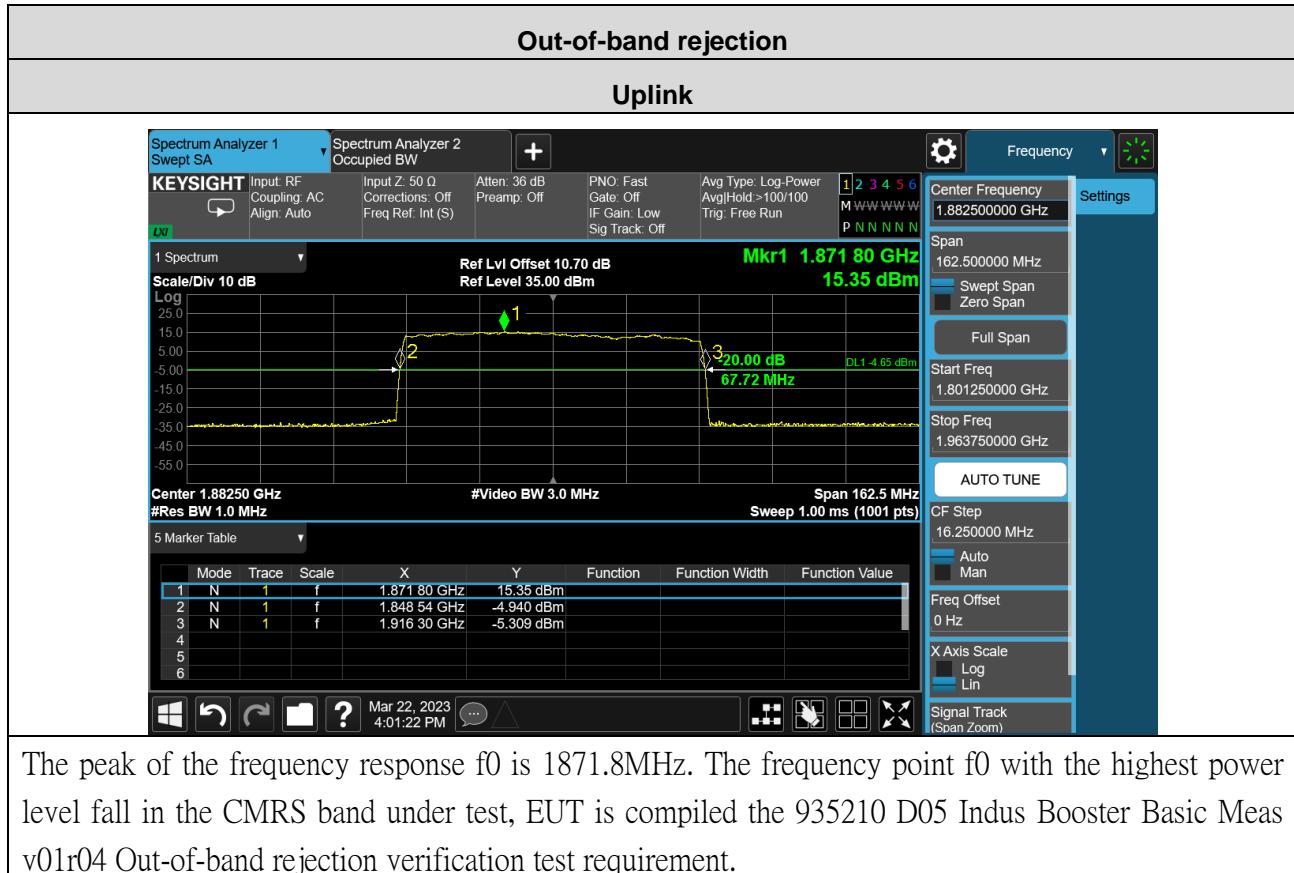
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1 Out-of-band rejection



The peak of the frequency response f_0 is 1871.8MHz. 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
Uplink	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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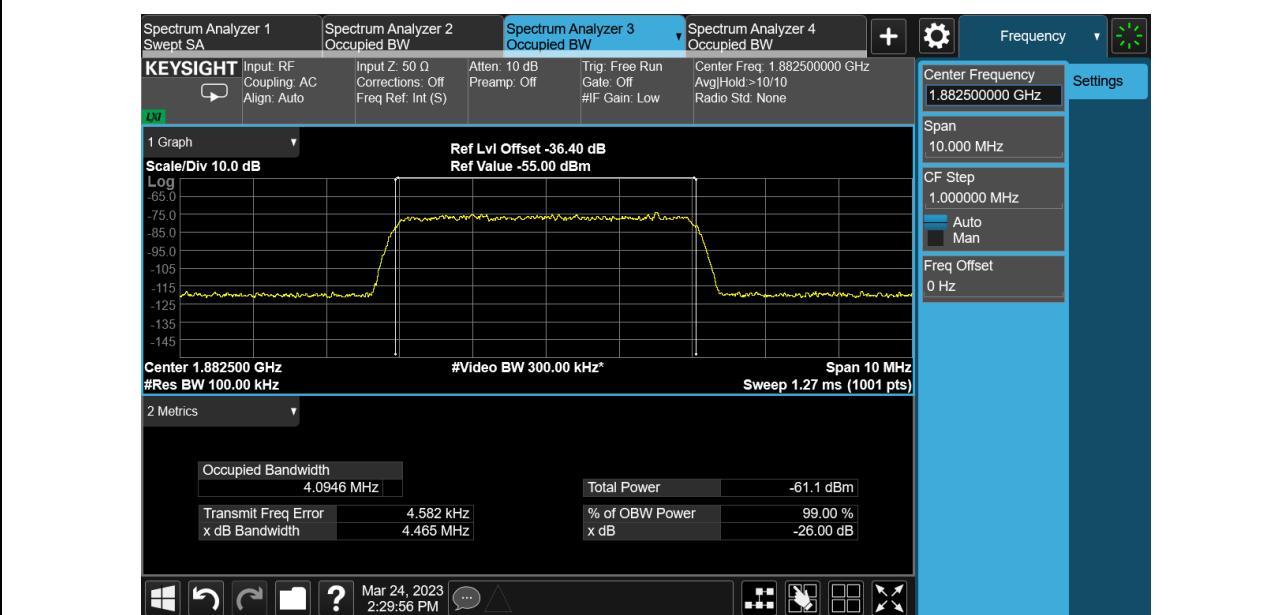
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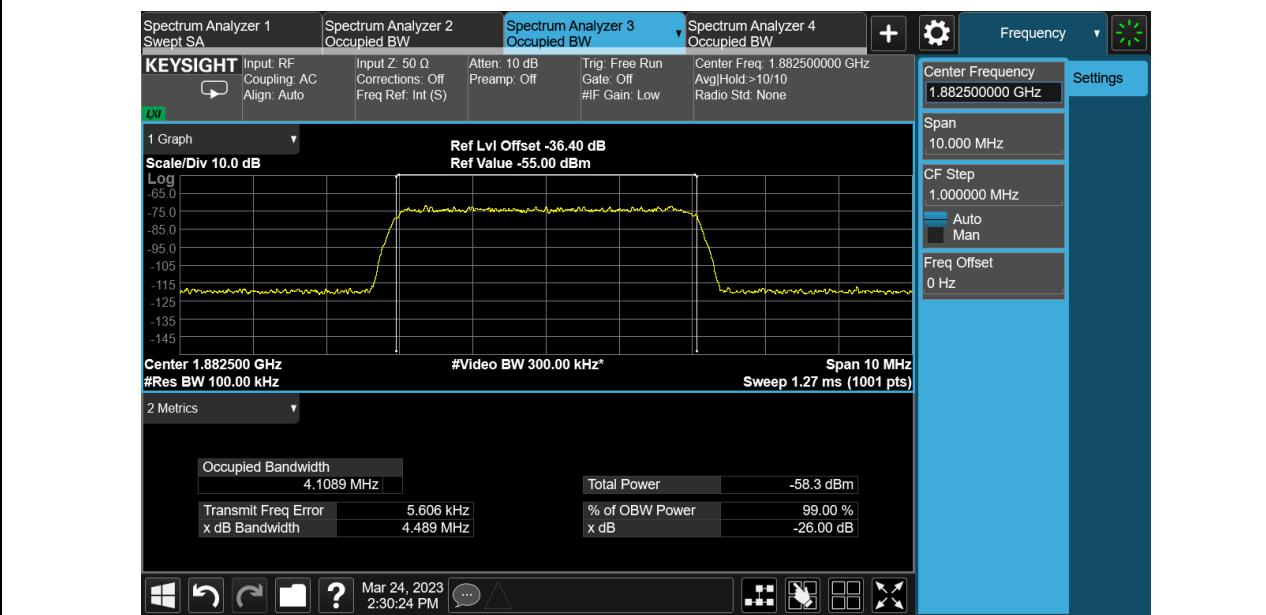
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99% OBW

Uplink_5MHz AWGN_Middle Channel_Input pre-AGC



Uplink_5MHz AWGN_Middle Channel_Input 3dB above AGC



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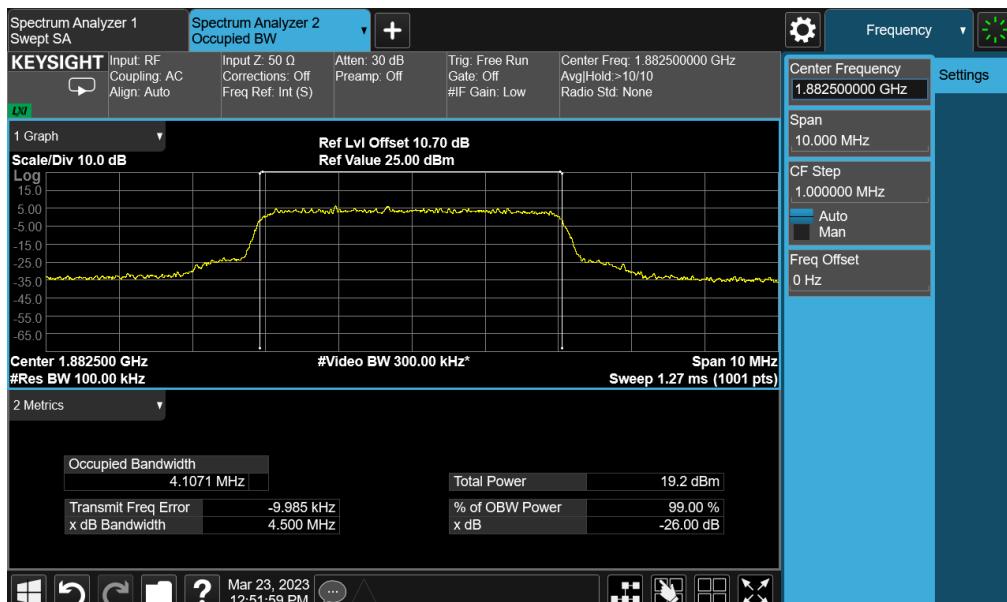
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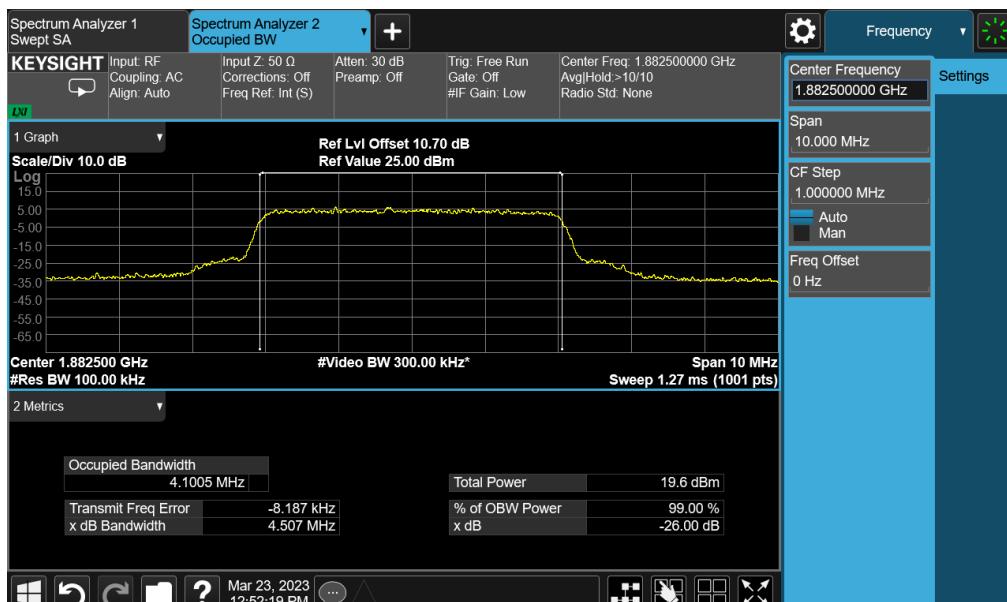
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Uplink_5MHz AWGN_Middle Channel_Output pre-AGC



Uplink_5MHz AWGN_Middle Channel_Output 3dB above AGC



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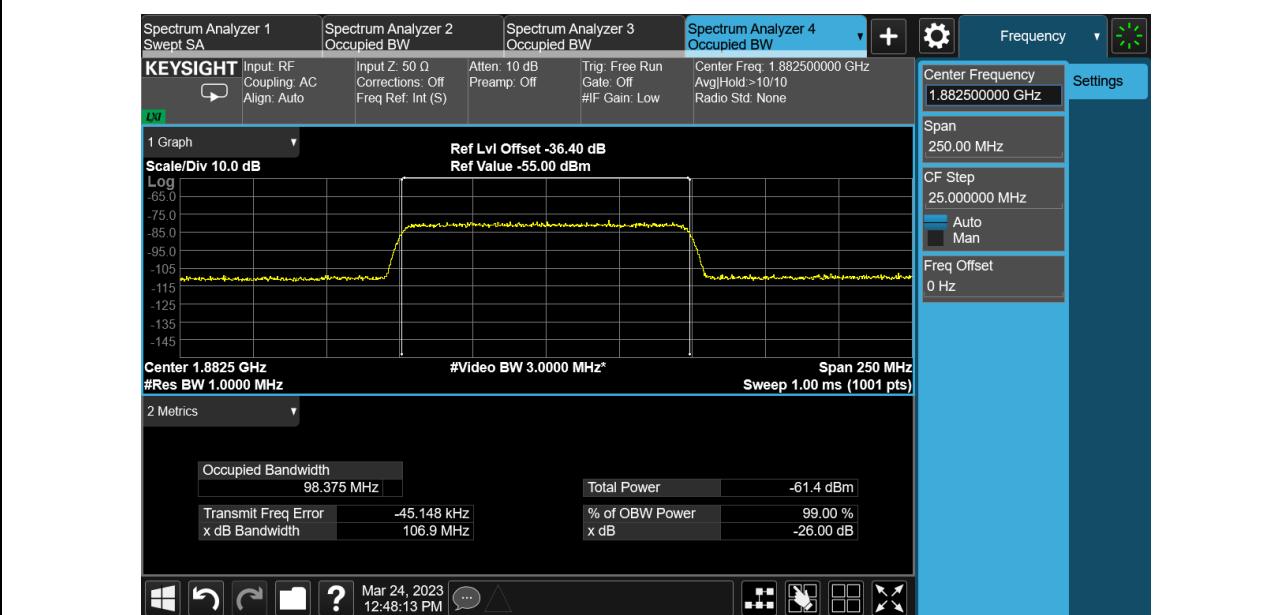
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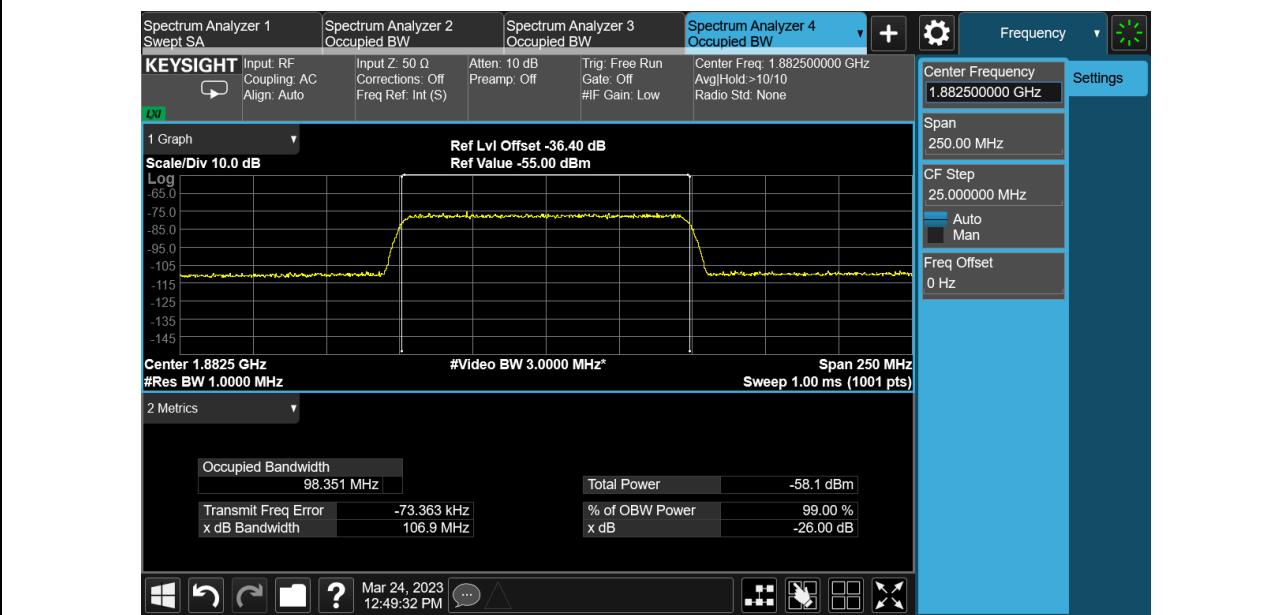
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Uplink_100MHz AWGN_Middle Channel_Input pre-AGC



Uplink_100MHz AWGN_Middle Channel_Input 3dB above AGC



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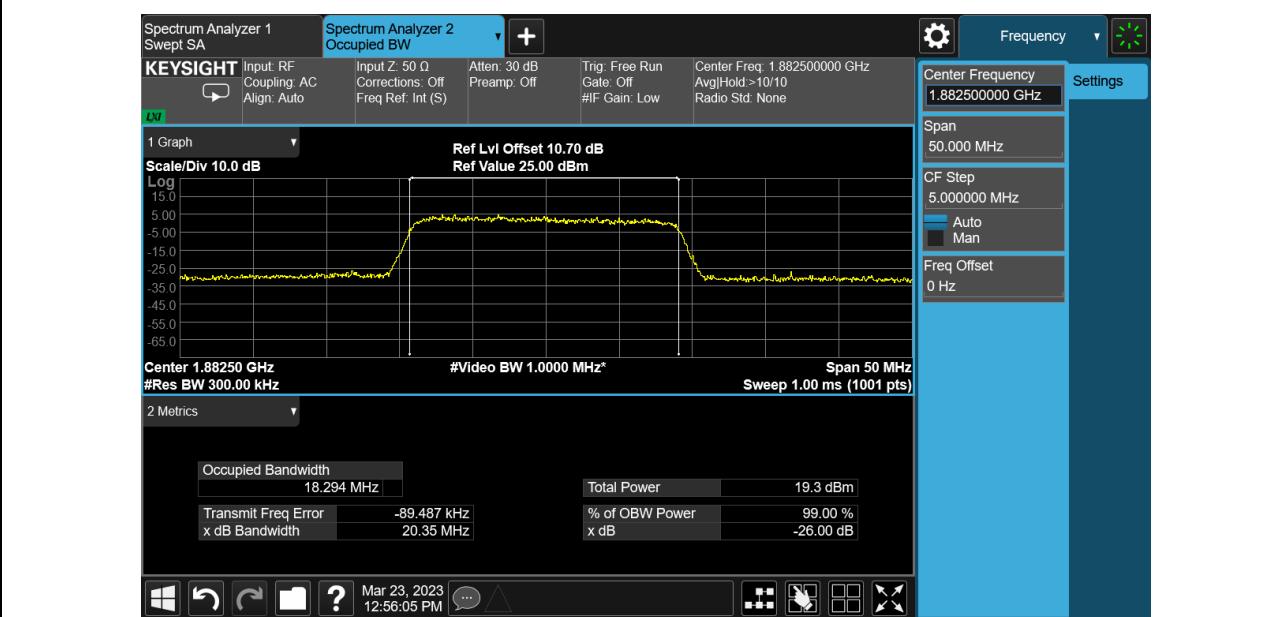
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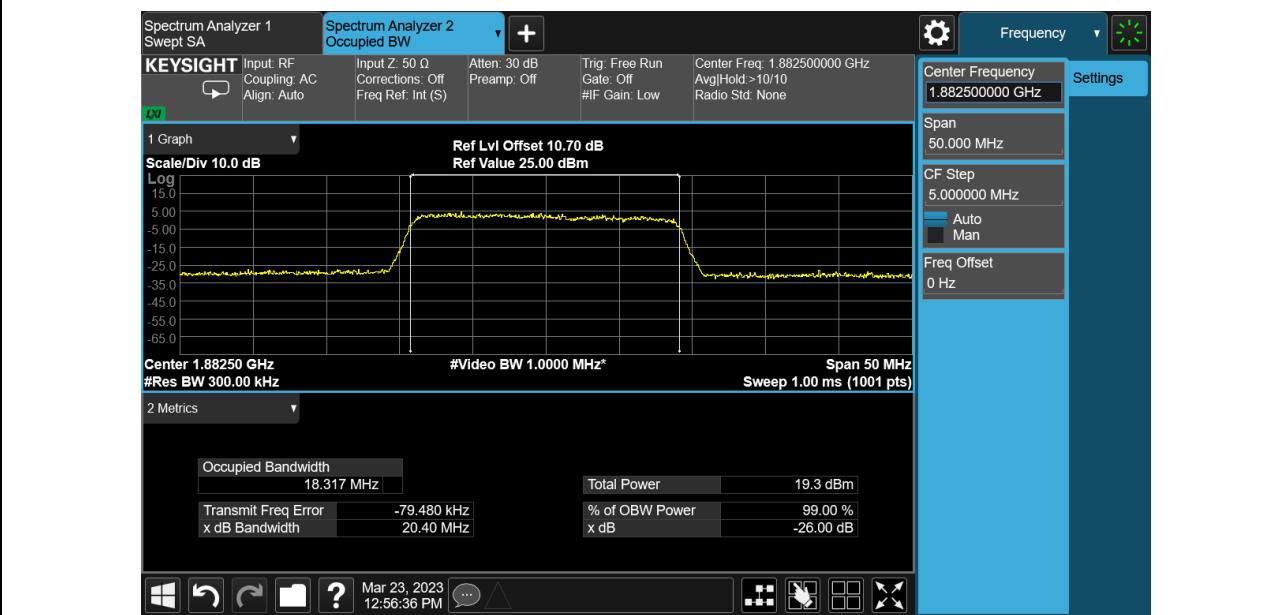
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Uplink_100MHz AWGN_Middle Channel_Output pre-AGC



Uplink_100MHz AWGN_Middle Channel_Output 3dB above AGC



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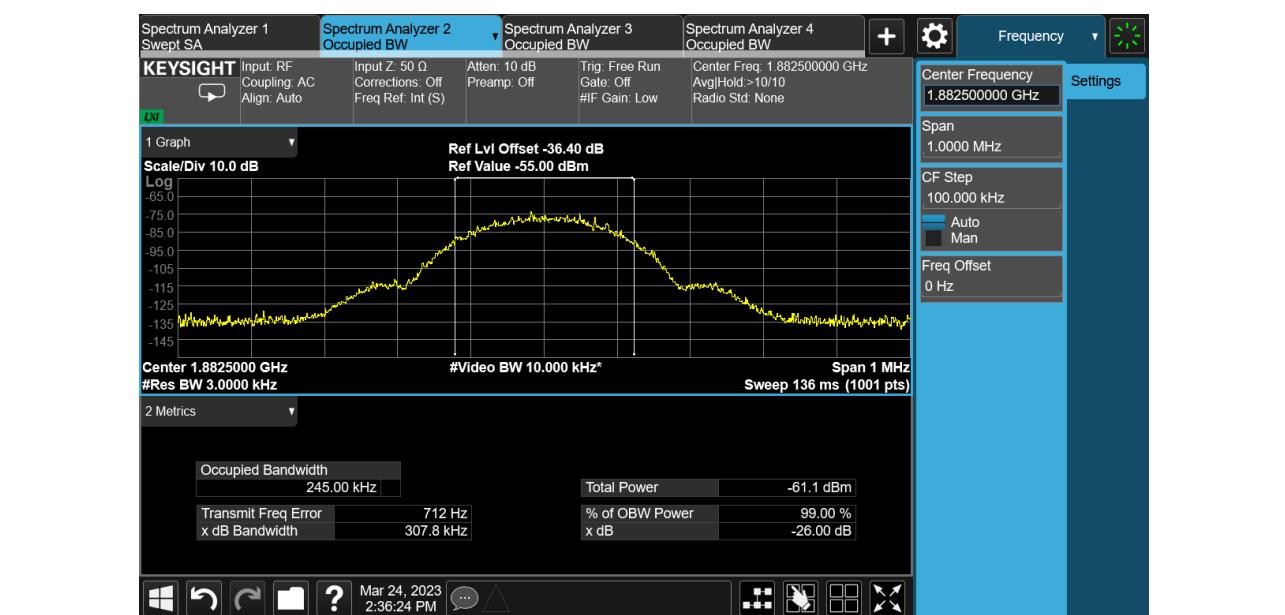
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Uplink_GSM_Middle Channel_Input pre-AGC



Uplink_GSM_Middle Channel_Input 3dB above AGC



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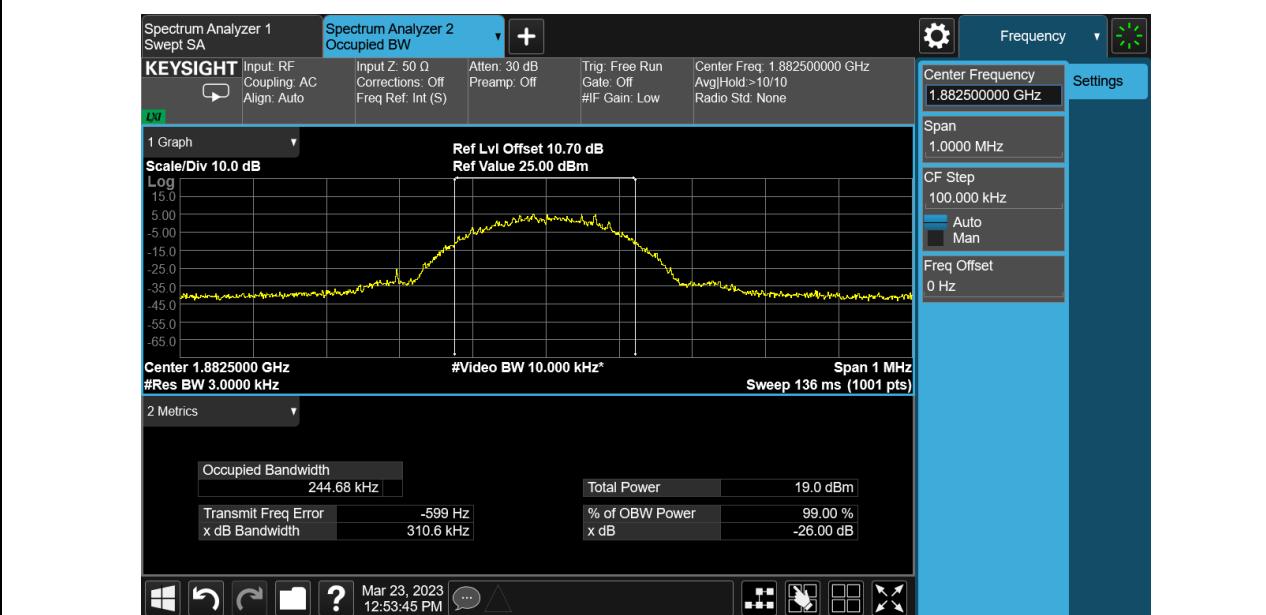
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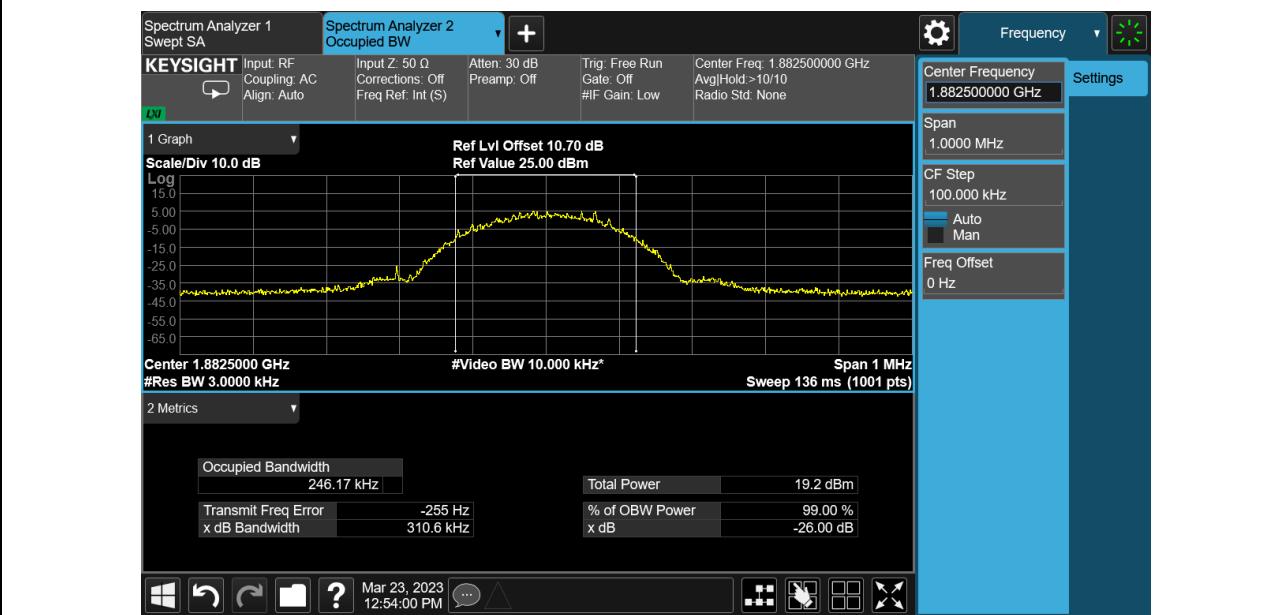
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Uplink_GSM_Middle Channel_Output pre-AGC



Uplink_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)
Uplink	1871.8	5MHz AWGN	Pre-AGC	-60.00	19.64	2.31	79.64
			3dB above AGC	-57.00	19.74	2.37	/
		100MHz AWGN	Pre-AGC	-60.00	13.26	0.53	73.26
			3dB above AGC	-57.00	12.97	0.50	/
		GSM	Pre-AGC	-60.00	20.77	3.00	80.77
			3dB above AGC	-57.00	20.91	3.10	/

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 14dBi 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
Uplink	1871.8	5MHz AWGN	Pre-AGC	13.63	0.58	PASS
			3dB above AGC	13.97	0.63	PASS
		100MHz AWGN	Pre-AGC	-3.58	0.01	PASS
			3dB above AGC	-3.62	0.01	PASS
		GSM	Pre-AGC	20.36	2.73	PASS
			3dB above AGC	20.75	2.99	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. EIRP= output power (dBm)+ antenna gain (dBi), the max antenna gain is 14dBi declared by the manufacturer.
3. 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
Uplink	1871.8	5MHz AWGN	Pre-AGC	6.84	≤13	PASS
			3dB above AGC	7.12		PASS
		100MHz AWGN	Pre-AGC	8.07		PASS
			3dB above AGC	7.79		PASS
		GSM	Pre-AGC	0.22		PASS
			3dB above AGC	0.19		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	
Uplink	lower edge	5MHz AWGN	One signal input	Pre-AGC	-32.14	≤-13	PASS	
				3dB above AGC	-31.71		PASS	
			Two signals input	Pre-AGC	-31.74		PASS	
				3dB above AGC	-32.57		PASS	
	upper edge		One signal input	Pre-AGC	-36.96		PASS	
				3dB above AGC	-36.56		PASS	
			Two signals input	Pre-AGC	-36.52		PASS	
				3dB above AGC	-36.99		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,
 $P = 19\text{dBm} = 0.08\text{W}$, so
 $\text{the limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$

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	
Uplink	lower edge	100MHz AWGN	One signal input	Pre-AGC	-24.88	≤-13	PASS	
				3dB above AGC	-24.07		PASS	
			Two signals input	Pre-AGC	-23.35		PASS	
				3dB above AGC	-24.15		PASS	
	upper edge		One signal input	Pre-AGC	-27.34		PASS	
				3dB above AGC	-27.83		PASS	
			Two signals input	Pre-AGC	-24.80		PASS	
				3dB above AGC	-24.59		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,
 $P = 19\text{dBm} = 0.08\text{W}$, so
 $\text{the limit} = 19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})] \text{ dB} = -13\text{dBm}$

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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	
Uplink	lower edge	GSM	One signal input	Pre-AGC	-41.41	≤-13	PASS	
				3dB above AGC	-41.21		PASS	
			Two signals input	Pre-AGC	-39.70		PASS	
				3dB above AGC	-39.57		PASS	
	upper edge		One signal input	Pre-AGC	-47.10		PASS	
				3dB above AGC	-47.57		PASS	
			Two signals input	Pre-AGC	-46.67		PASS	
				3dB above AGC	-46.98		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,
 $P = 19\text{dBm} = 0.08\text{W}$, so
the limit = $19\text{dBm} - [43 + 10 \log_{10} (0.08\text{W})]$ dB = -13dBm

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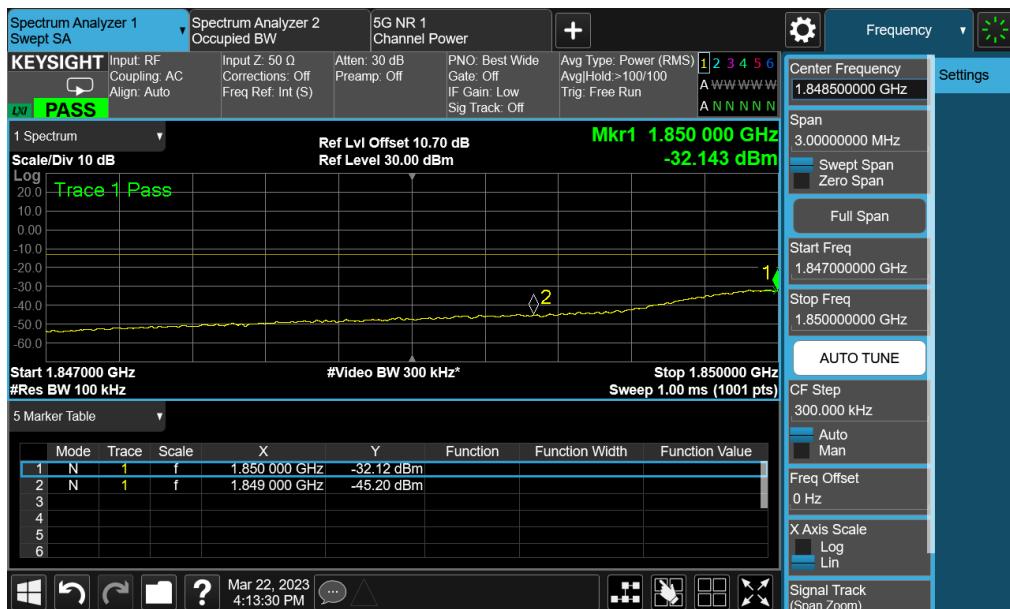
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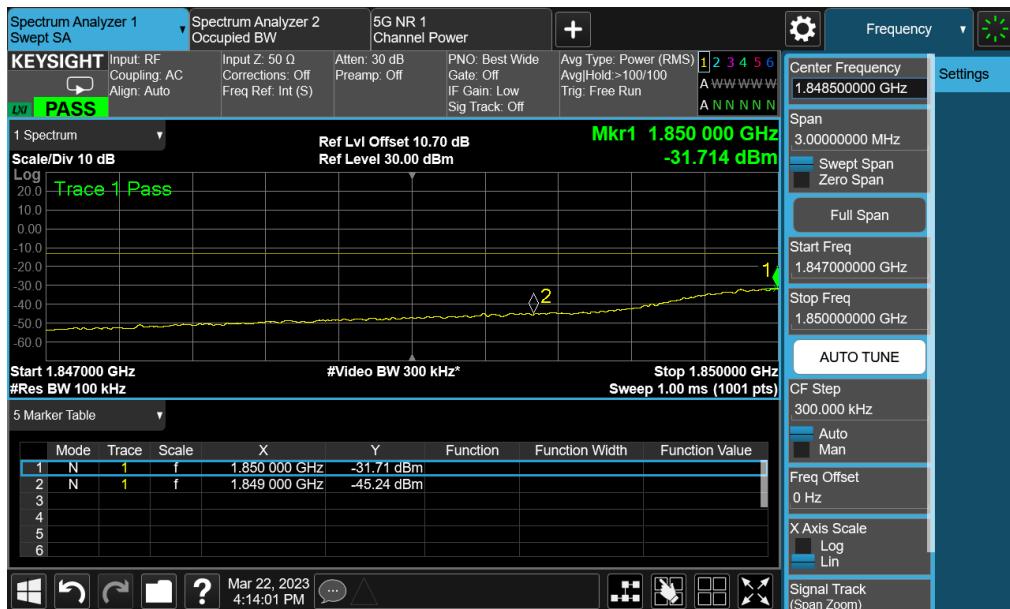
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Out-of-band/out-of-block emissions

Uplink_5MHz AWGN_One signal input_Pre-AGC_Lower edge



Uplink_5MHz AWGN_One signal input_3dB above AGC_Lower edge



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

Uplink_5MHz AWGN_One signal input_Pre-AGC_Upper edge



Uplink_5MHz AWGN_One signal input_3dB above AGC_Upper edge



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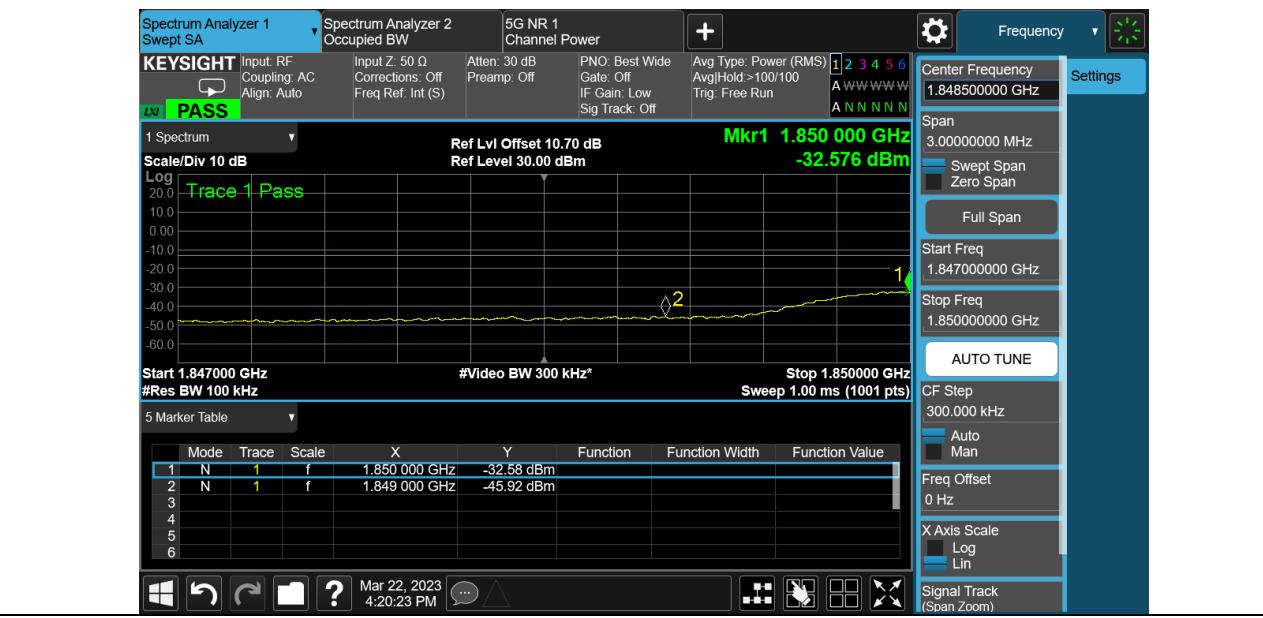
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Out-of-band/out-of-block emissions

Uplink_5MHz AWGN_Two signals input_Pre-AGC_Lower edge



Uplink_5MHz AWGN_Two signals input_3dB above AGC_Lower edge



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

Uplink_5MHz AWGN_Two signals input_Pre-AGC_Upper edge



Uplink_5MHz AWGN_Two signals input_3dB above AGC_Upper edge



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

Uplink_100MHz AWGN_One signal input_Pre-AGC_Lower edge



Uplink_100MHz AWGN_One signal input_3dB above AGC_Lower edge



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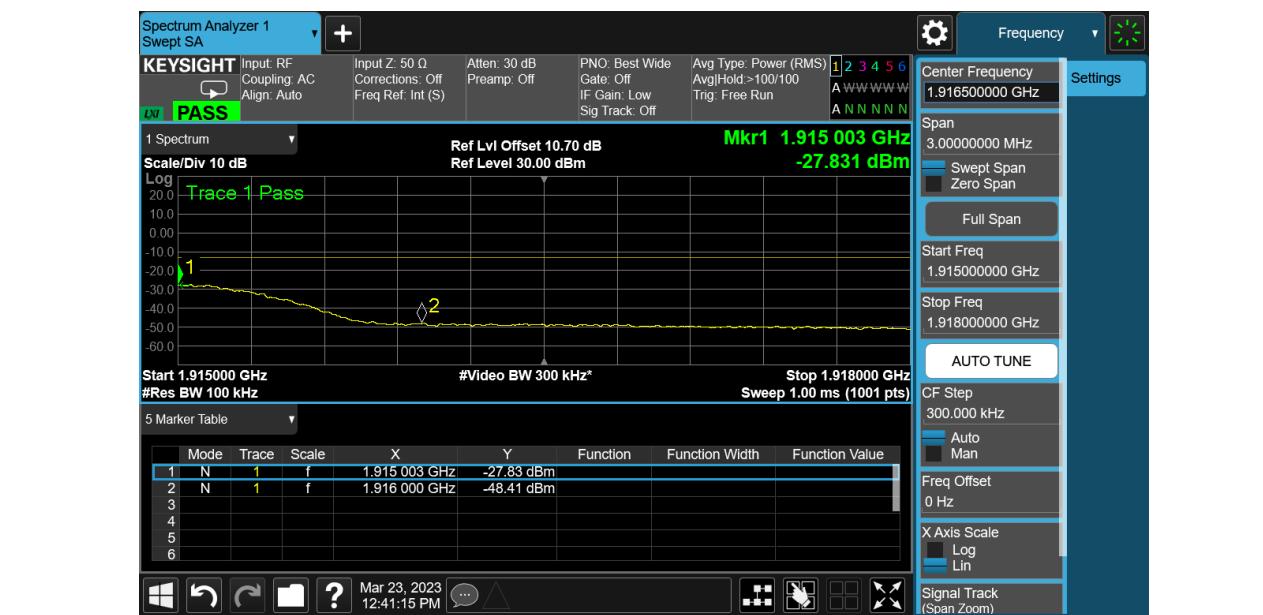
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Out-of-band/out-of-block emissions

Uplink_100MHz AWGN_One signal input_Pre-AGC_Upper edge



Uplink_100MHz AWGN_One signal input_3dB above AGC_Upper edge



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

Uplink_100MHz AWGN_Two signals input_Pre-AGC_Lower edge



Uplink_100MHz AWGN_Two signals input_3dB above AGC_Lower edge



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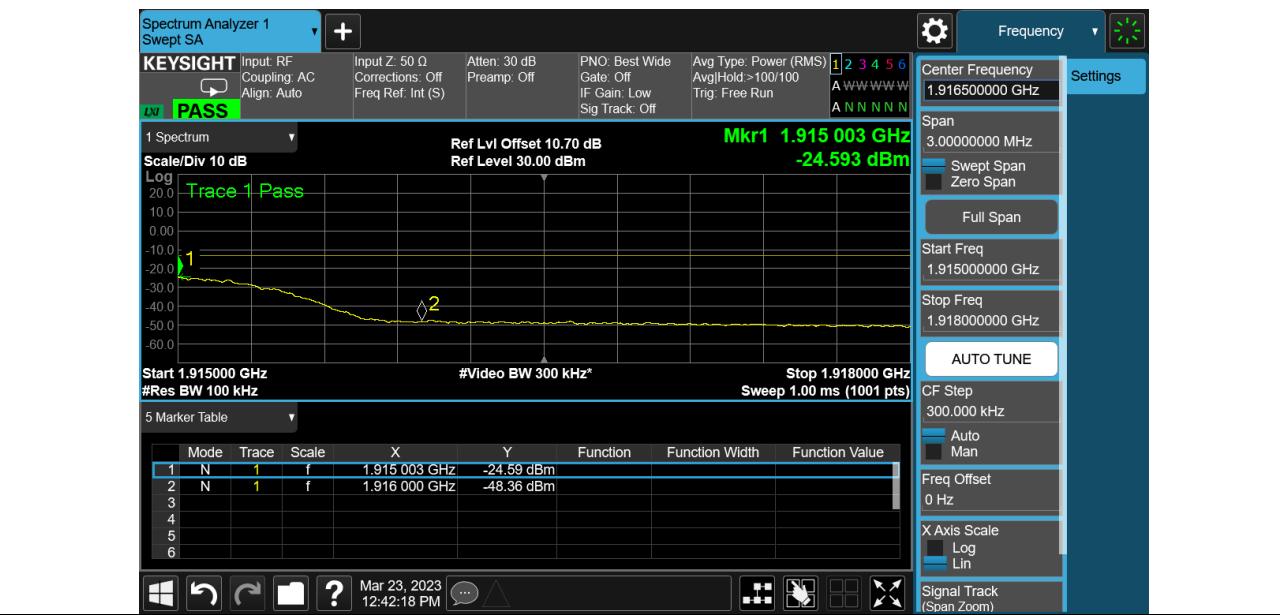
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Out-of-band/out-of-block emissions

Uplink_100MHz AWGN_Two signals input_Pre-AGC_Upper edge



Uplink_100MHz AWGN_Two signals input_3dB above AGC_Upper edge



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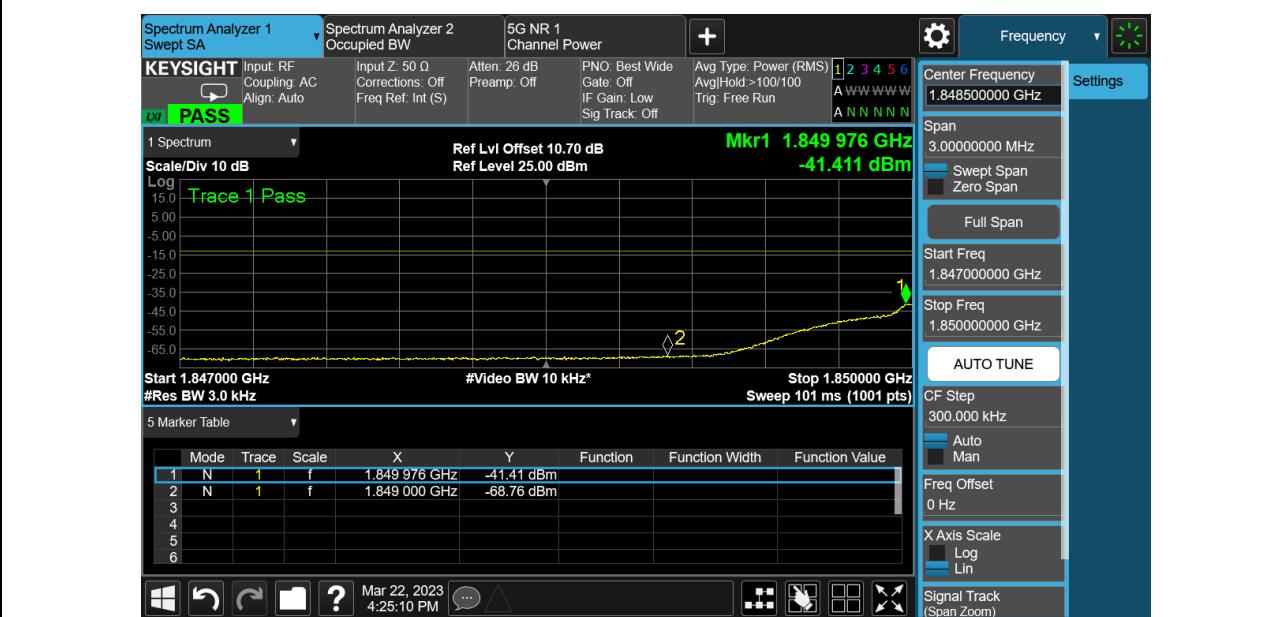
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Out-of-band/out-of-block emissions

Uplink_GSM_One signal input_Pre-AGC_Lower edge



Uplink_GSM_One signal input_3dB above AGC_Lower edge



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

Uplink_GSM_One signal input_Pre-AGC_Upper edge



Uplink_GSM_One signal input_3dB above AGC_Upper edge



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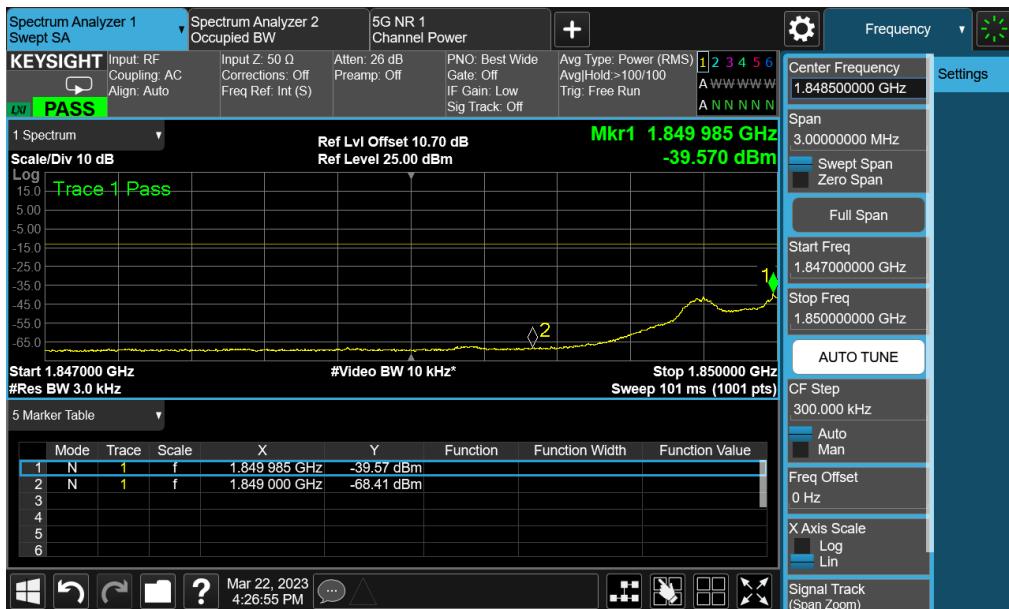
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Out-of-band/out-of-block emissions

Uplink_GSM_Two signals input_Pre-AGC_Lower edge



Uplink_GSM_Two signals input_3dB above AGC_Lower edge



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

Uplink_GSM_Two signals input_Pre-AGC_Upper edge



Uplink_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
Uplink	High Channel	5MHz AWGN	Pre-AGC	0.009-1000	-32.72	≤-13	PASS
				1000-1849	-36.33	≤-13	PASS
				1916-20000	-45.54	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-38.42	≤-13	PASS
				1000-1849	-34.65	≤-13	PASS
				1916-20000	-31.69	≤-13	PASS
	Middle Channel	GSM	Pre-AGC	0.009-1000	-33.56	≤-13	PASS
				1000-1849	-30.81	≤-13	PASS
				1916-20000	-42.08	≤-13	PASS
		5MHz AWGN	Pre-AGC	0.009-1000	-44.77	≤-13	PASS
				1000-1849	-38.00	≤-13	PASS
				1916-20000	-43.11	≤-13	PASS
	Low Channel	100MHz AWGN	Pre-AGC	0.009-1000	-34.64	≤-13	PASS
				1000-1849	-42.29	≤-13	PASS
				1916-20000	-37.88	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-32.68	≤-13	PASS
				1000-1849	-45.76	≤-13	PASS
				1916-20000	-37.09	≤-13	PASS
		5MHz AWGN	Pre-AGC	0.009-1000	-41.35	≤-13	PASS
				1000-1849	-42.48	≤-13	PASS
				1916-20000	-31.43	≤-13	PASS
		100MHz AWGN	Pre-AGC	0.009-1000	-38.67	≤-13	PASS
				1000-1849	-31.43	≤-13	PASS
				1916-20000	-32.01	≤-13	PASS
		GSM	Pre-AGC	0.009-1000	-42.37	≤-13	PASS
				1000-1849	-40.22	≤-13	PASS
				1916-20000	-30.48	≤-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,

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

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

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6 Frequency Stability

Frequency stability vs temperature						
Test Path	Test Frequency (MHz)	Temperature (°C)	Voltage (V AC)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Uplink	1882.5	+50	110	21	0.0112	PASS
		+40	110	27	0.0143	PASS
		+30	110	19	0.0101	PASS
		+20	110	15	0.0080	PASS
		+10	110	23	0.0122	PASS
		0	110	-15	-0.0080	PASS
		-10	110	-24	-0.0127	PASS
		-20	110	11	0.0058	PASS
		-30	110	23	0.0122	PASS

Frequency stability vs voltage						
Test path	Test Frequency (MHz)	Voltage (V AC)	Temperature (°C)	Frequency error (Hz)	Tolerance (ppm)	Verdict
Uplink	1882.5	93.5	20	-21	-0.0112	PASS
		126.5	20	-15	-0.0080	PASS

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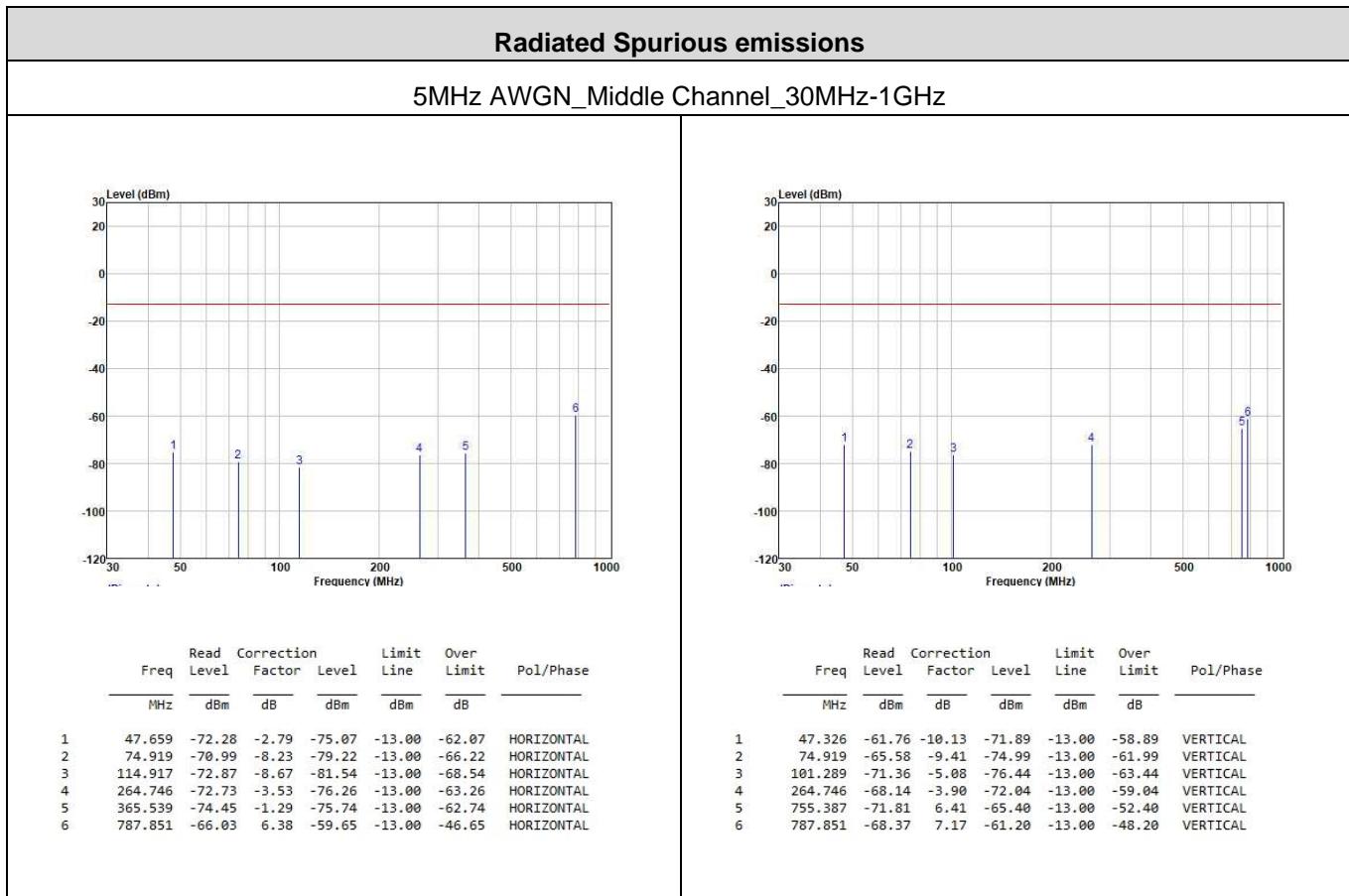
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7 Radiated Spurious emissions

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.

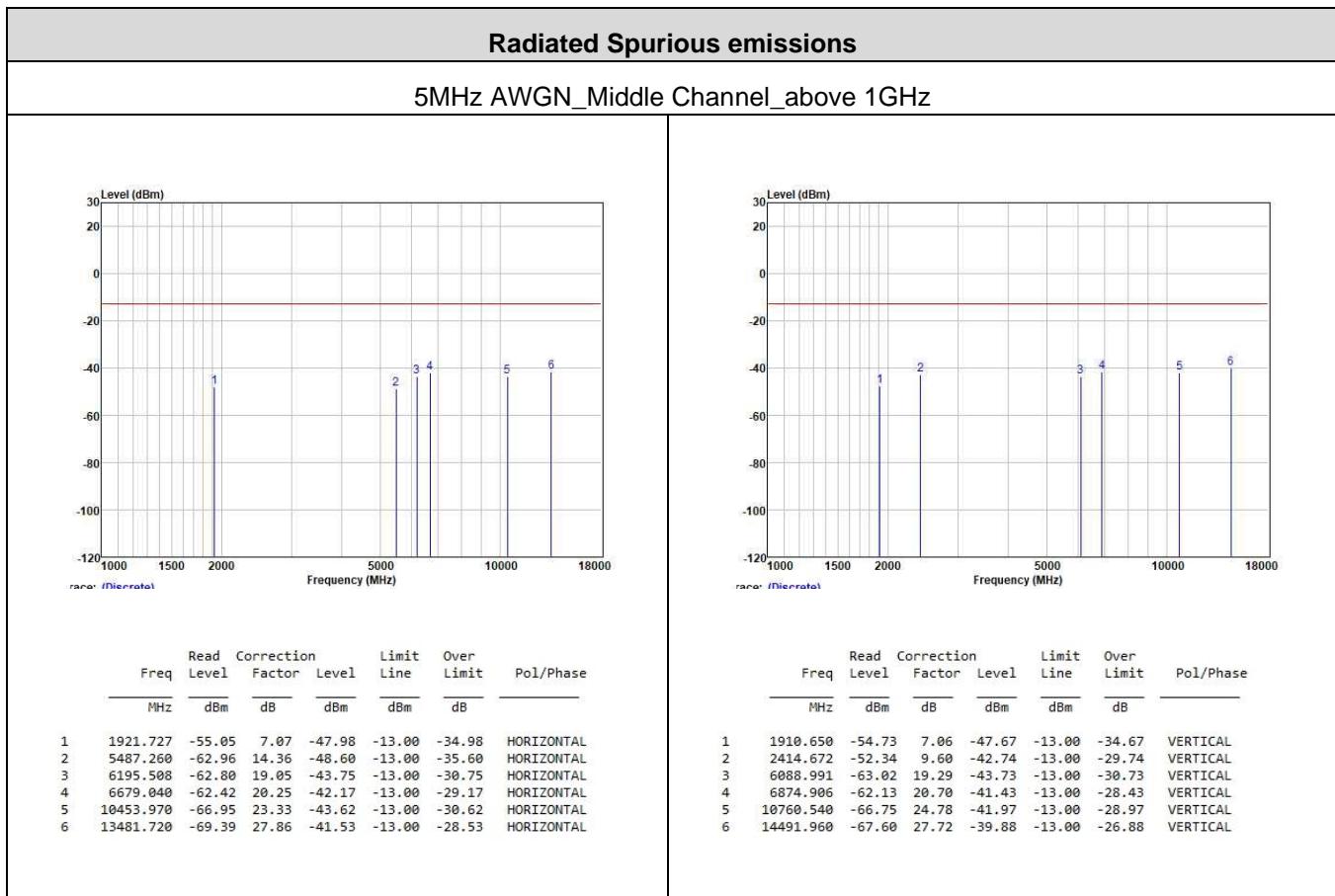


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--End of Appendix--

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