

Appendix -

Test Data and Result for report

GZCR230600056802 (B)

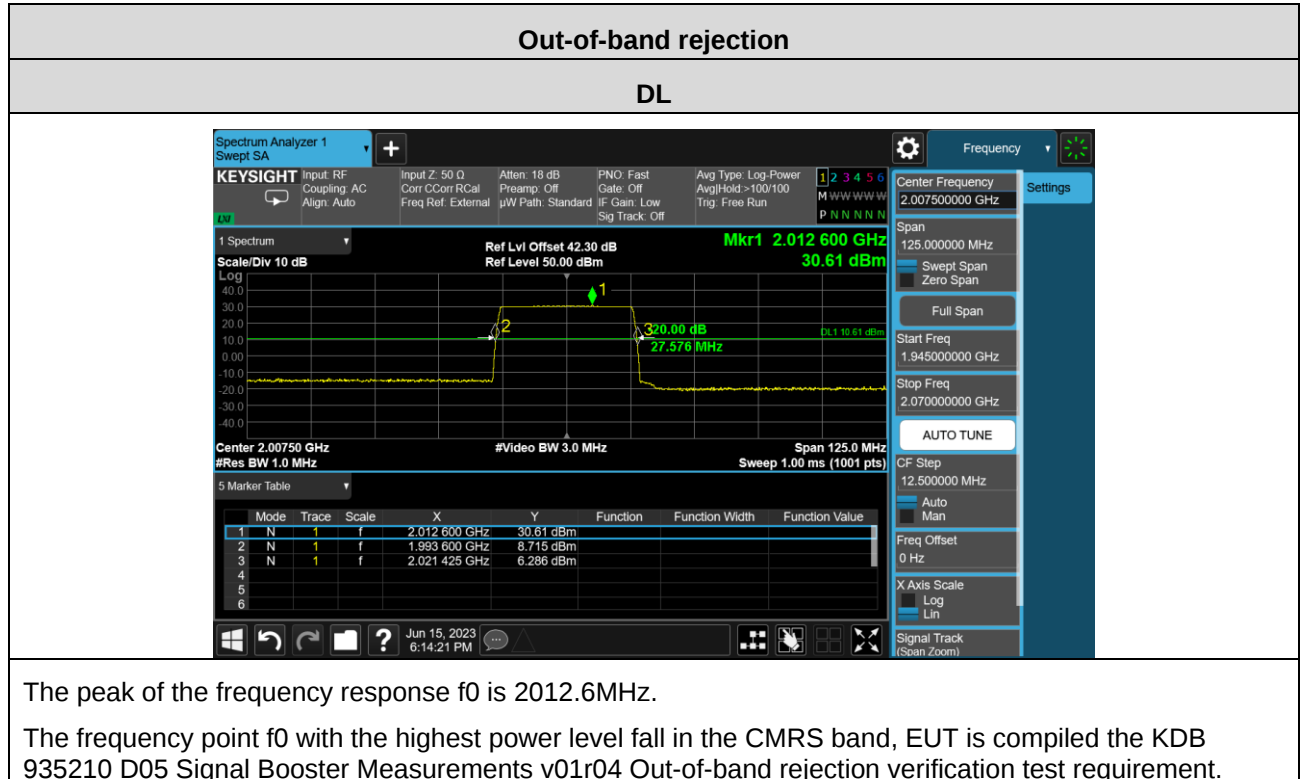
(For DL 1995-2020MHz)



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1 Out-of-band rejection



2 Input versus Output comparison

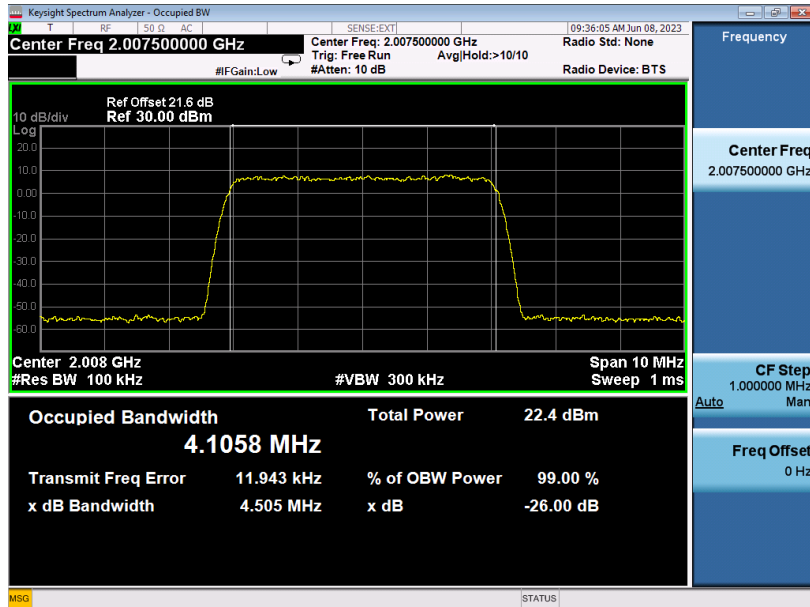
Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS*
			3dB above AGC	PASS*
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

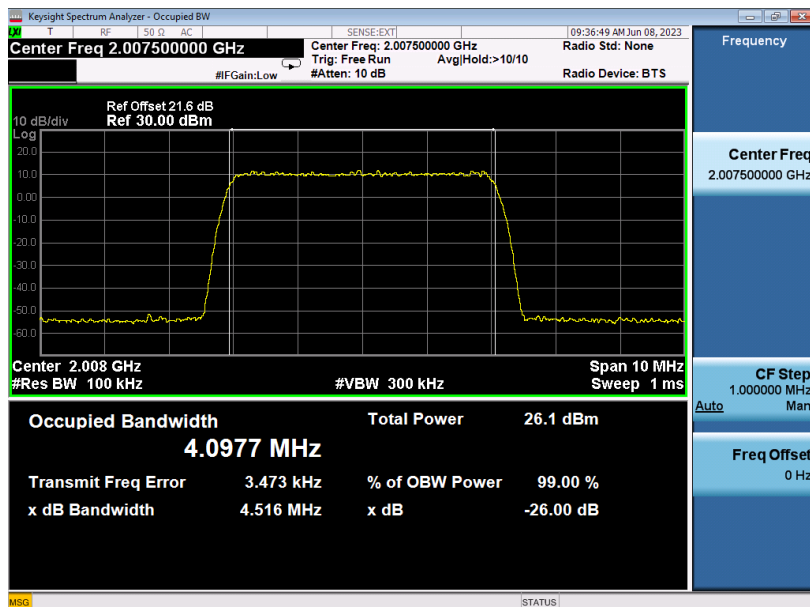
- * The EUT supports maximum single channel BW is 20MHz for NR when operation in this band, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
- Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.

99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC

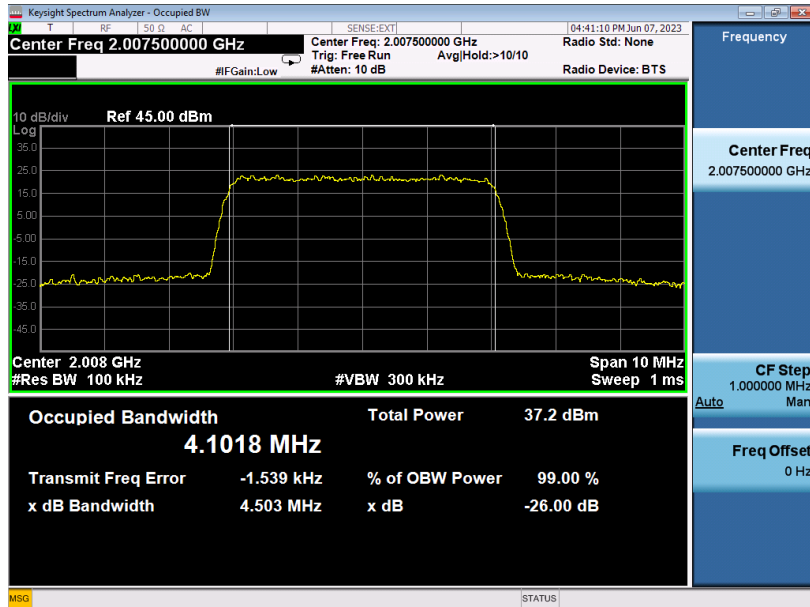


DL_4.1MHz AWGN_MCH_Input_3dB above AGC

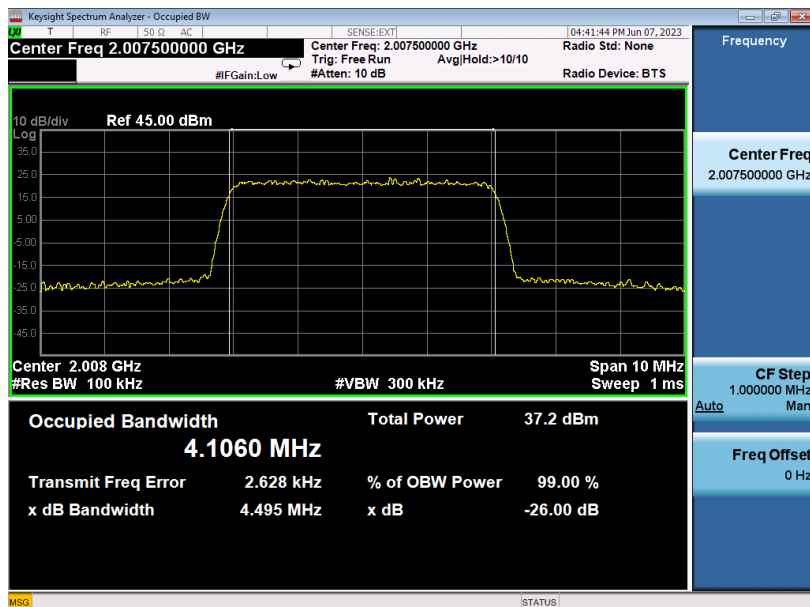


99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC

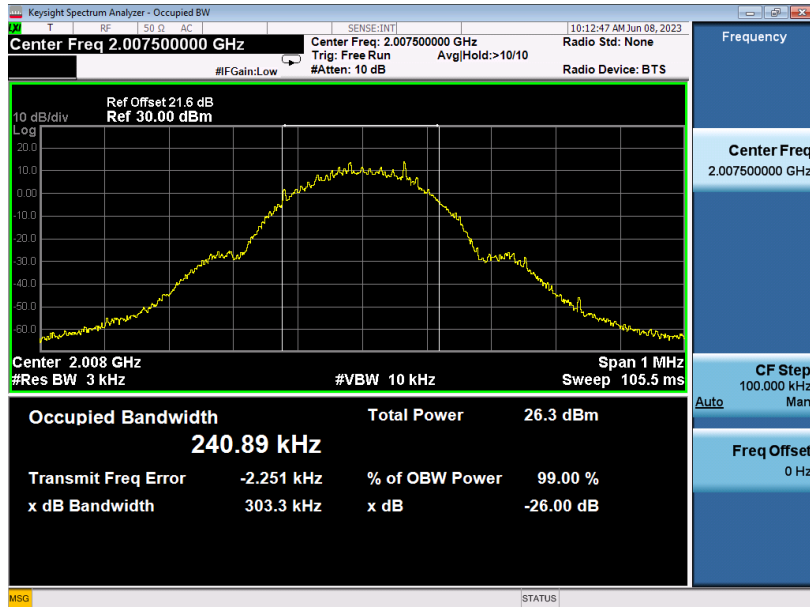


DL_4.1MHz AWGN_MCH_Output_3dB above AGC

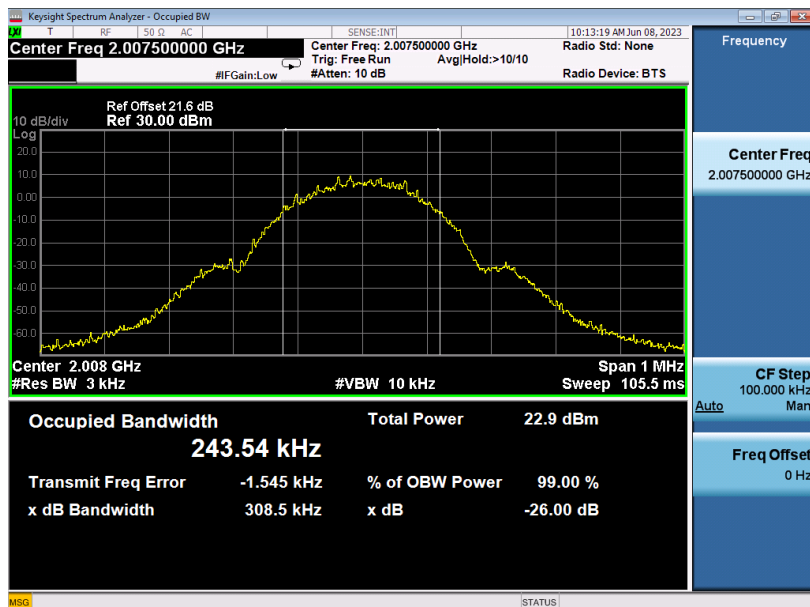


99% OBW

DL_GSM_MCH_Input_Pre-AGC



DL_GSM_MCH_Input_3dB above AGC

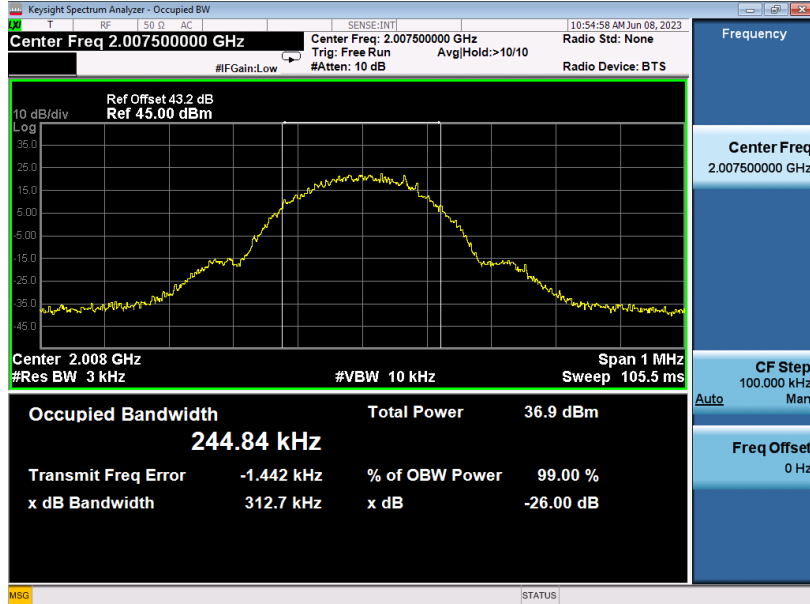


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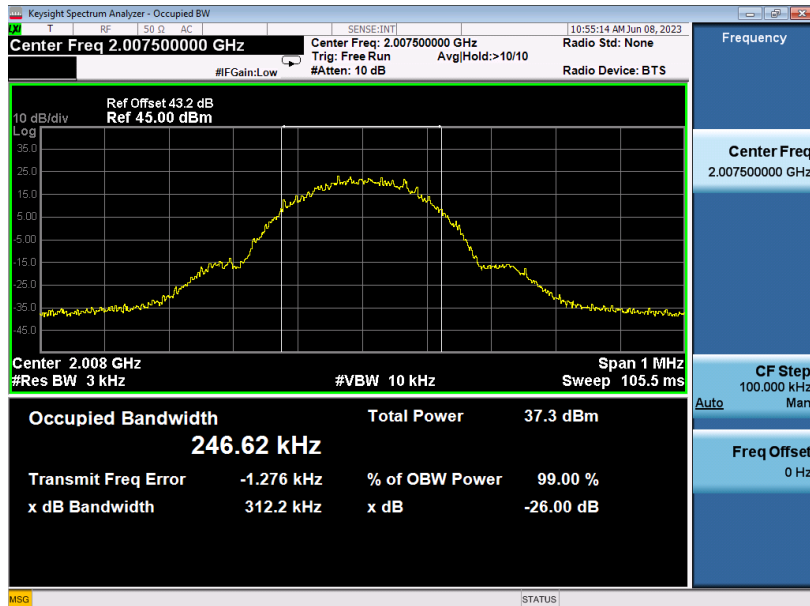
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99% OBW

DL_GSM_MCH_Output_Pre-AGC



DL_GSM_MCH_Output_3dB above AGC

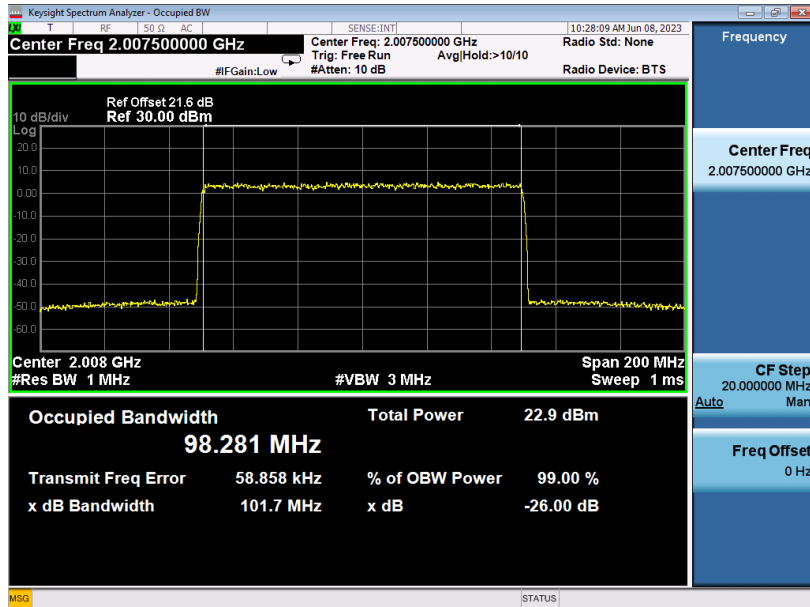


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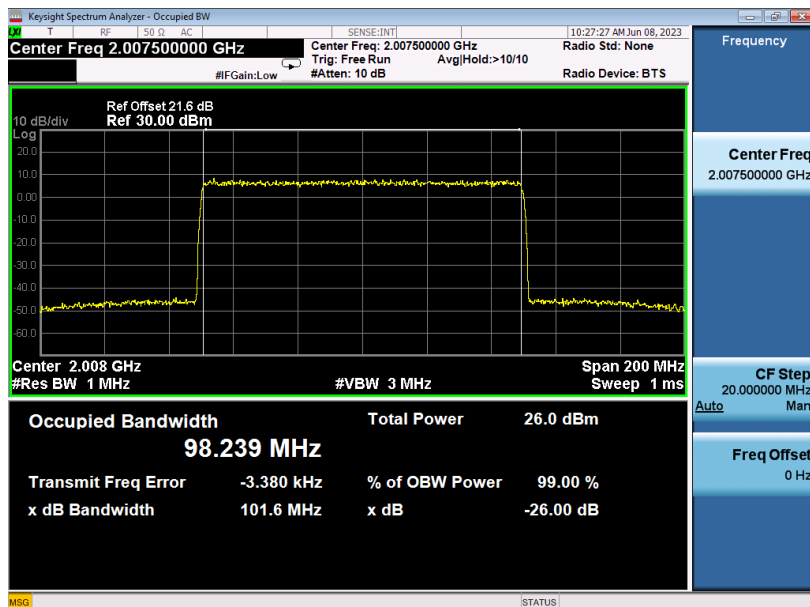
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99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC

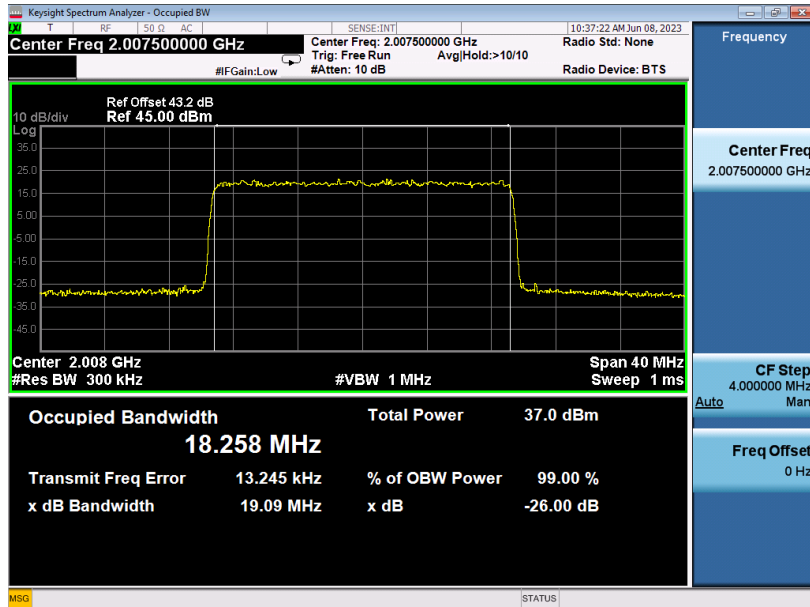


DL_100MHz AWGN_MCH_Input_3dB above AGC

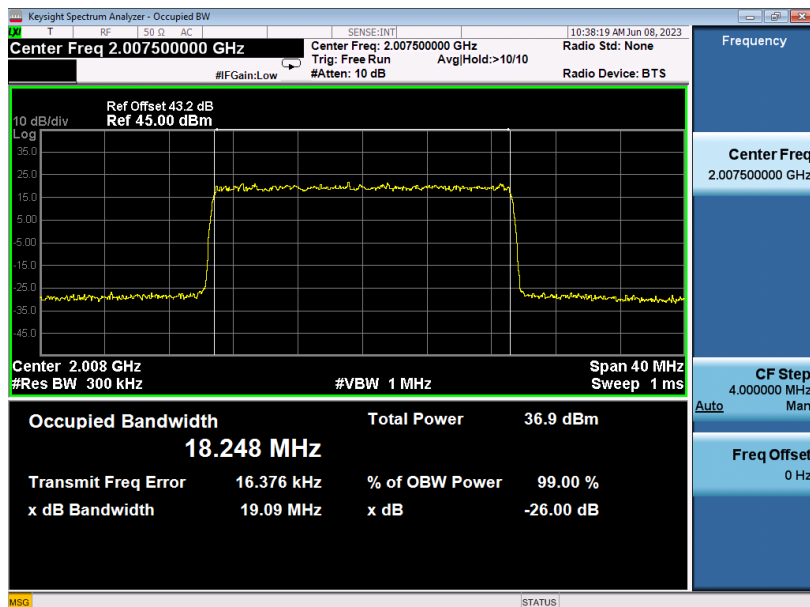


99% OBW

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	2012.6	4.1MHz AWGN	Pre-AGC	23.00	37.44	55.47	221.83	14.44
			3dB above AGC	26.00	37.38	54.71	218.78	/
		100MHz AWGN	Pre-AGC	22.00	36.35	43.16	172.59	14.35
			3dB above AGC	25.00	36.30	42.66	170.61	/
		GSM	Pre-AGC	23.00	37.75	59.57	238.24	14.75
			3dB above AGC	26.00	37.70	58.89	235.51	/



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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	2012.6	4.1MHz AWGN	Pre-AGC	31.03	12.68	50.70	PASS
			3dB above AGC	31.11	12.92	51.65	PASS
		100MHz AWGN	Pre-AGC	24.37	2.74	10.95	PASS
			3dB above AGC	24.85	3.06	12.22	PASS
		GSM	Pre-AGC	37.75	59.57	238.24	PASS
			3dB above AGC	37.70	58.89	235.51	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 10dBi declared by the manufacturer, the directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi = 13dBi.
- The output power is limited to an EIRP of 1640W/MHz.
- FCC part 27.50 d(7) require the Fixed, mobile, and portable (hand-held) stations operating in the 2000–2020 MHz band are limited to 2 watts EIRP, however, based on discussion in docket No. DA 13-2409 (section 26 & 47) for operation in 2000-2020MHz in downlink, only 27.50(d)(1) and 27.50(d)(2) apply, therefore, the EIRP limit for fixed stations operating in the 2000–2020MHz band are 1640 W/MHz.

47. *Downlink Operations in 2000-2020 MHz.* If DISH does elect to use 2000-2020 MHz for downlink operations, in place of the rules waived above, the following requirements (based on our technical analysis detailed above), shall apply:¹⁴⁴

Technical Issue	Requirement
Power Limits	(1) The EIRP limits for rural and non-rural areas set forth in rule sections 27.50(d)(1)-(2); and (2) Coordination with 1995-2000 MHz licensees in the same manner that rule section 27.50(d)(10) requires 1995-2000 MHz licensees to coordinate with 1990-1995 MHz licensees.
OOBE Limits	The OOBE limit set forth in rule section 27.53(h)(1), with the measurement procedure set forth in rule 27.53(h)(3).

- 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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Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
DL	2012.6	4.1MHz AWGN	Pre-AGC	8.42	≤13	PASS
			3dB above AGC	8.29		PASS
		100MHz AWGN	Pre-AGC	8.40		PASS
			3dB above AGC	8.26		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.						

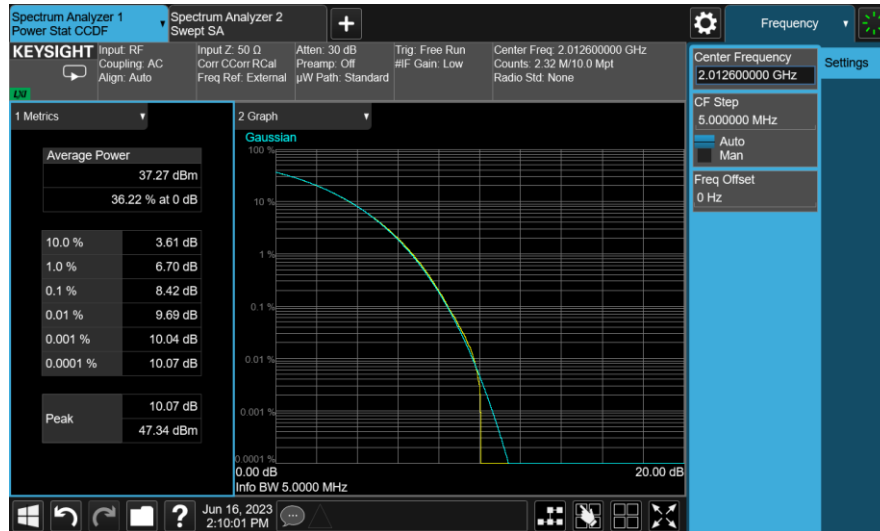


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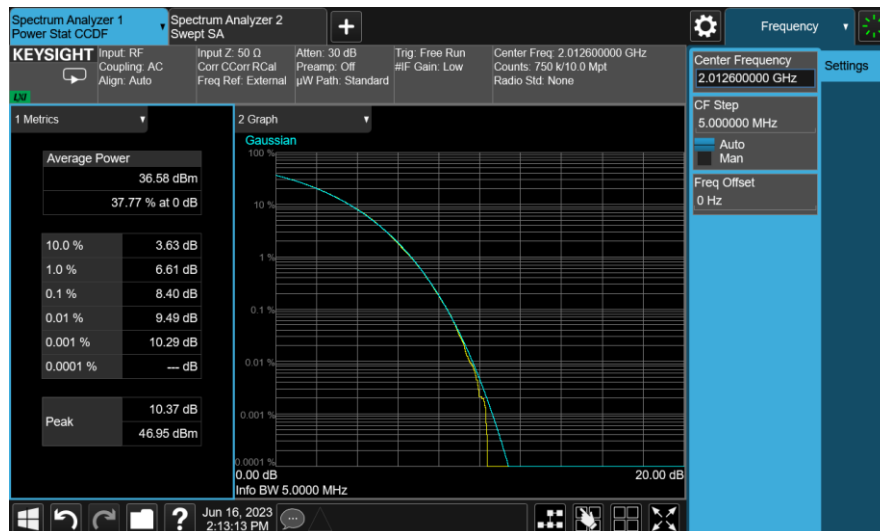
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Peak-to-average ratio (PAR)

DL_4.1MHz AWGN_Pre-AGC



DL_100MHz AWGN_Pre-AGC



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	-25.28	≤-16	PASS
				3dB above AGC	-24.52		PASS
			Two signals input	Pre-AGC	-24.55		PASS
				3dB above AGC	-24.52		PASS
	HCH		One signal input	Pre-AGC	-26.79		PASS
				3dB above AGC	-26.90		PASS
			Two signals input	Pre-AGC	-28.21		PASS
				3dB above AGC	-27.35		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-20.99	≤-16	PASS
				3dB above AGC	-19.89		PASS
			Two signals input	Pre-AGC	-20.16		PASS
				3dB above AGC	-21.34		PASS
	HCH		One signal input	Pre-AGC	-22.03		PASS
				3dB above AGC	-21.64		PASS
			Two signals input	Pre-AGC	-26.32		PASS
				3dB above AGC	-24.90		PASS



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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	LCH	GSM	One signal input	Pre-AGC	-19.96	≤-16	PASS
				3dB above AGC	-19.33		PASS
			Two signals input	Pre-AGC	-21.48		PASS
				3dB above AGC	-21.03		PASS
	HCH		One signal input	Pre-AGC	-27.88		PASS
				3dB above AGC	-27.07		PASS
			Two signals input	Pre-AGC	-21.18		PASS
				3dB above AGC	-20.29		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, only ANT1 port was measured, and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.
- Based on discussion in docket No. DA 13-2409 (section 26 & 47) the Downlink operations in 2000-2020Mhz, the OOB limit is set forth in rule section 27.53(h)(1) ,(h)(3) applied.

47. *Downlink Operations in 2000-2020 MHz.* If DISH does elect to use 2000-2020 MHz for downlink operations, in place of the rules waived above, the following requirements (based on our technical analysis detailed above), shall apply:¹⁴⁴

Technical Issue	Requirement
Power Limits	(1) The EIRP limits for rural and non-rural areas set forth in rule sections 27.50(d)(1)-(2); and (2) Coordination with 1995-2000 MHz licensees in the same manner that rule section 27.50(d)(10) requires 1995-2000 MHz licensees to coordinate with 1990-1995 MHz licensees.
OOBE Limits	The OOBE limit set forth in rule section 27.53(h)(1), with the measurement procedure set forth in rule 27.53(h)(3).

Pretest performe at AWS-2 : 1995MHz to 2000MHz block; Pretest performe at AWS-4 : 2000MHz to 2020MHz block ; Pretest performe at combined AWS-4 and AWS-2 : 1995MHz to 2020MHz block ; As the emission limit of above sub-block are identical, therefore, only the worst-case combined AWS-4 and AWS-2 block test plot was record in the report.



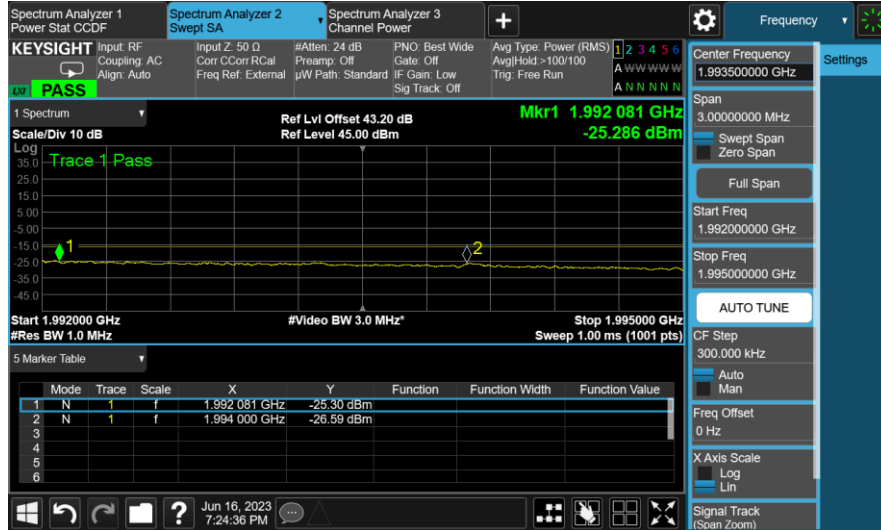
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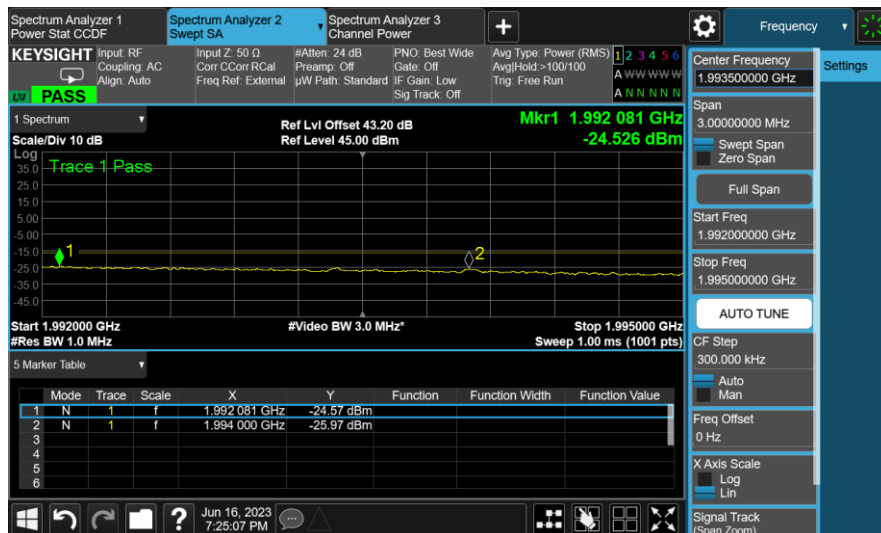
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC

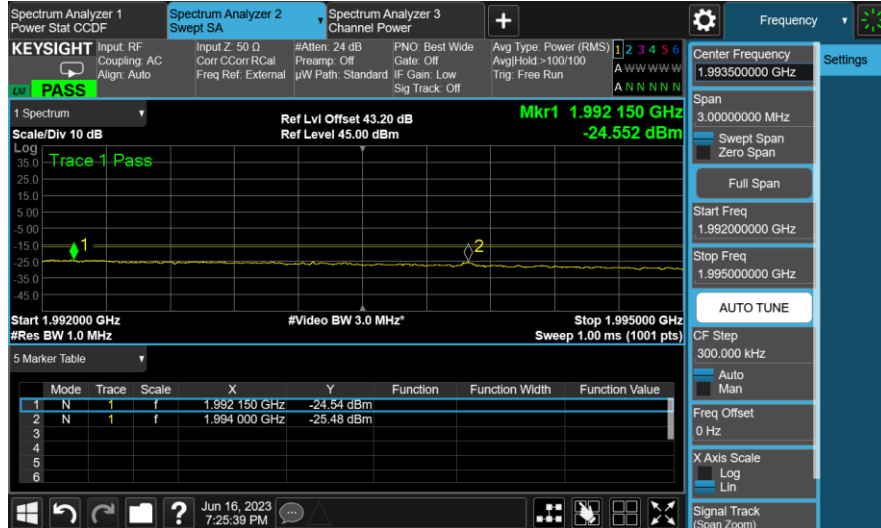


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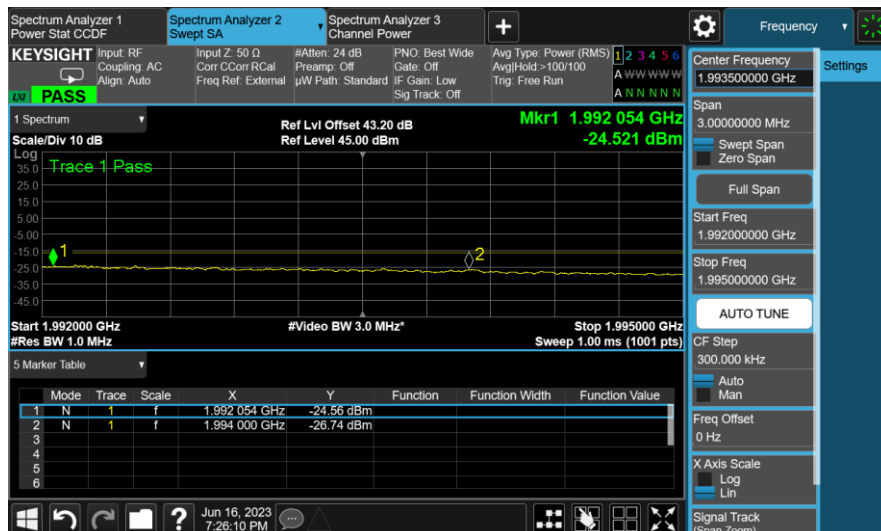
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC

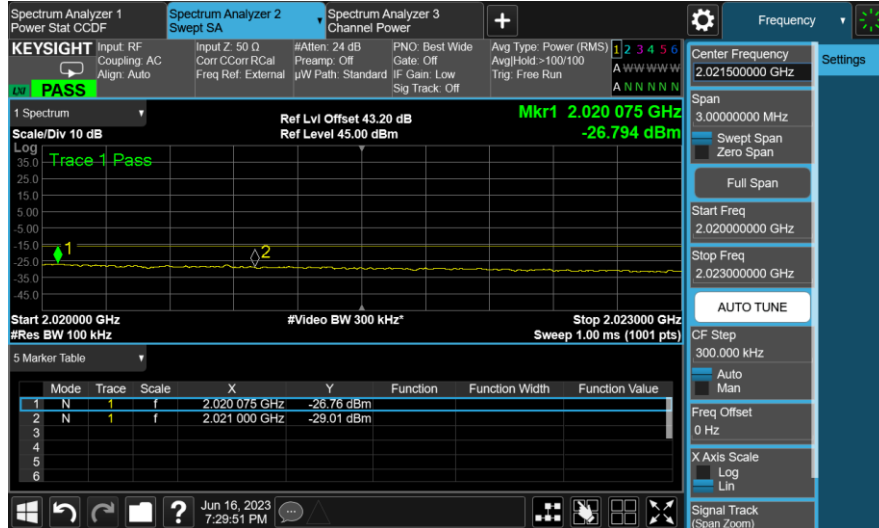


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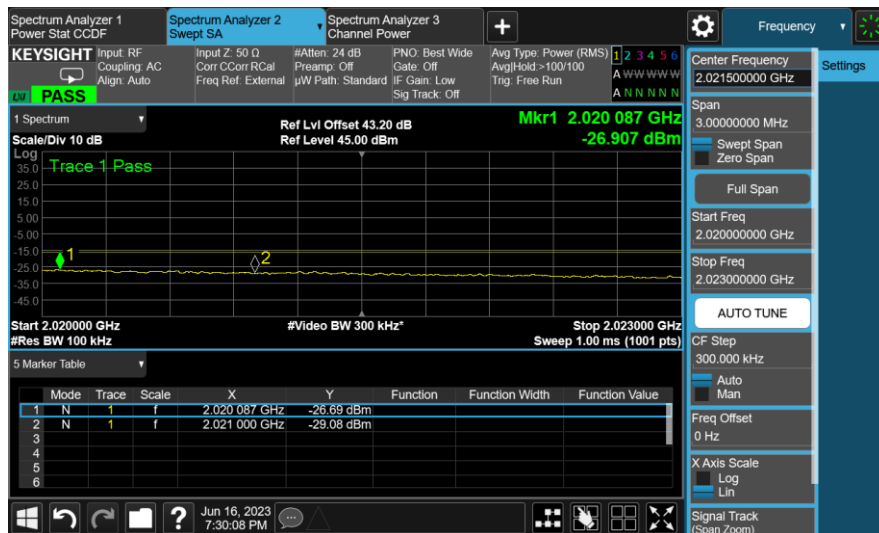
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC

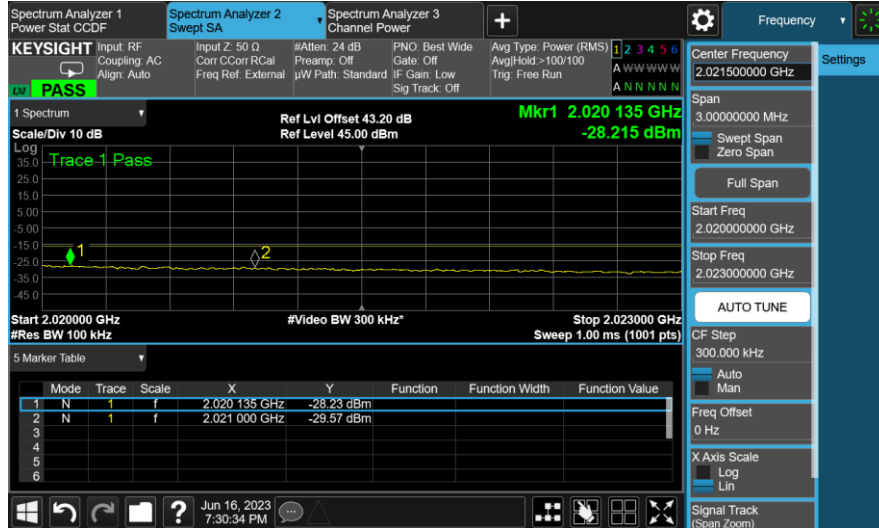


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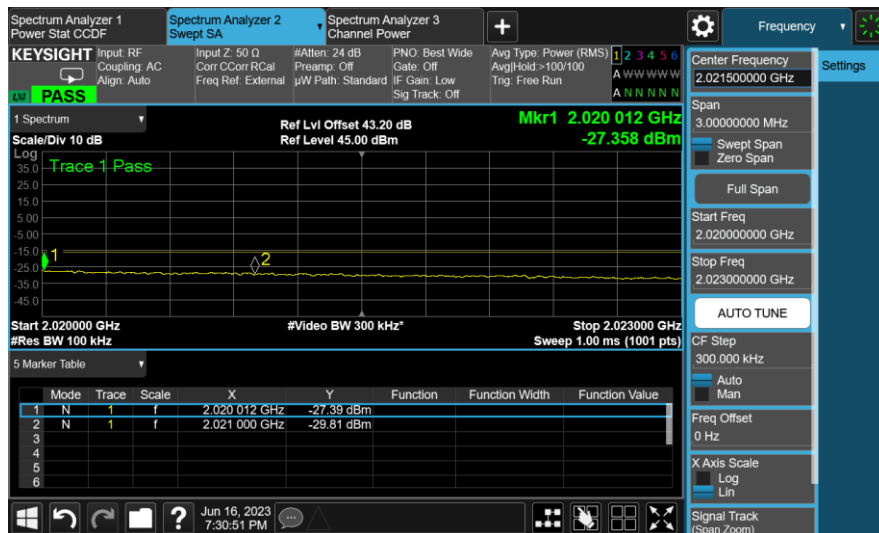
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC

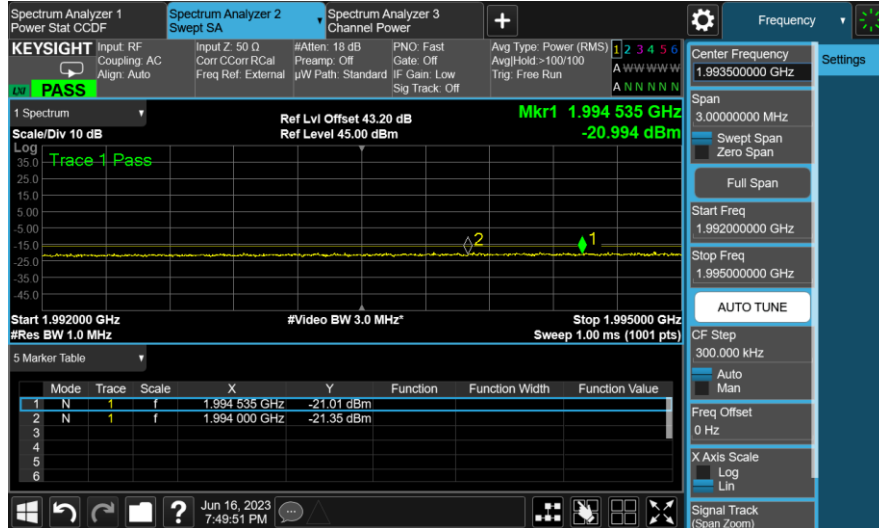


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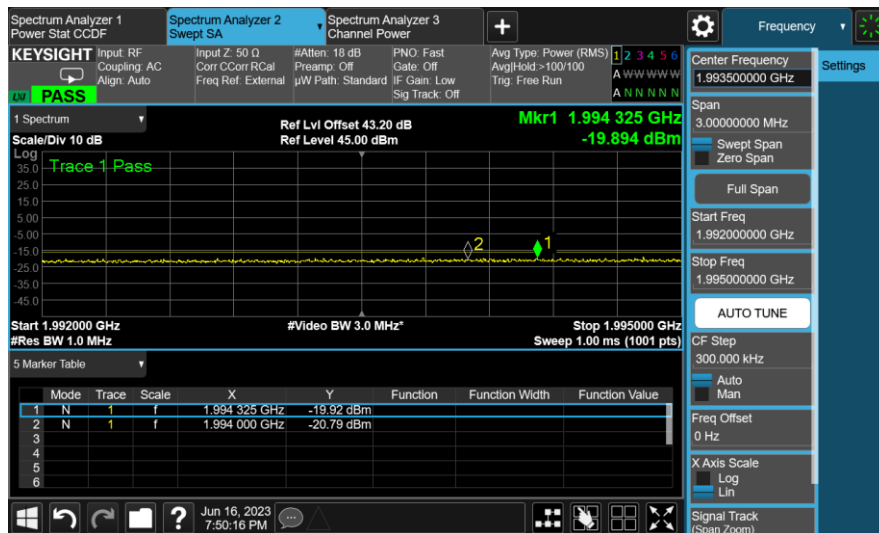
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



DL_100MHz AWGN_LCH_a single test signal_3dB above AGC

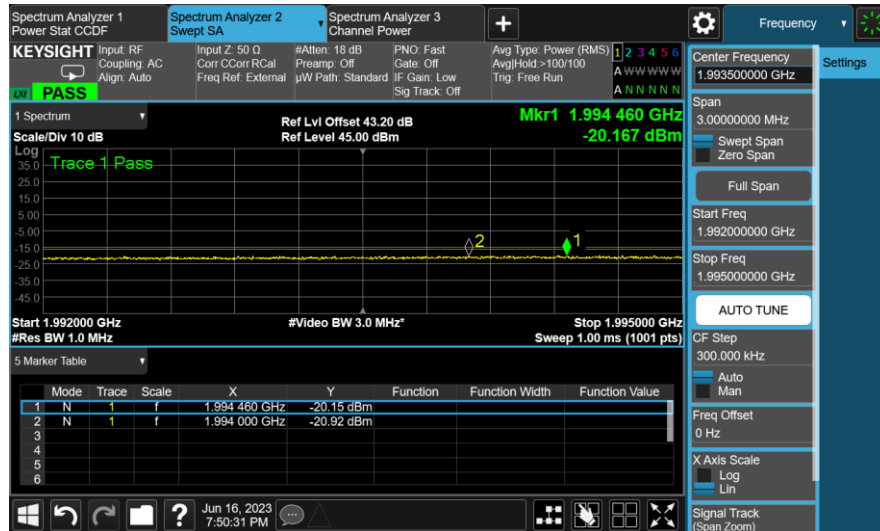


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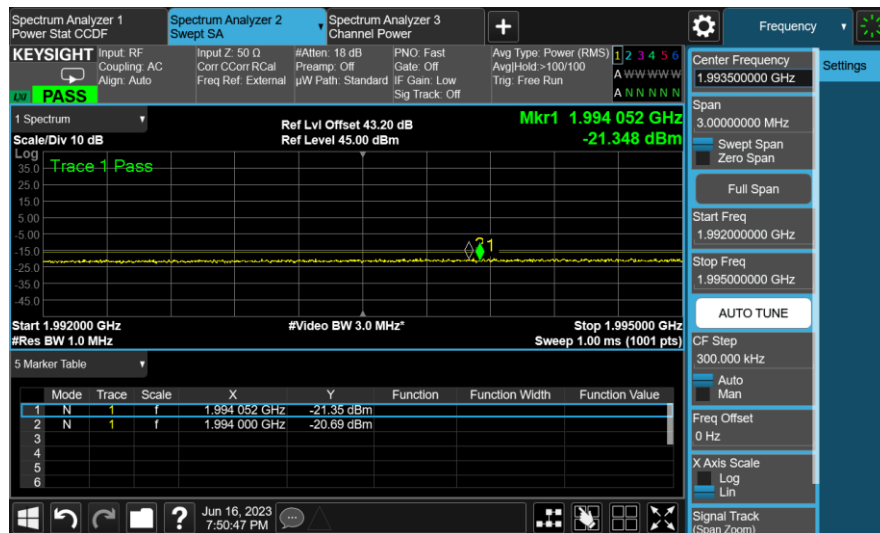
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_100MHz AWGN_LCH_two adjacent test signals_3dB above AGC

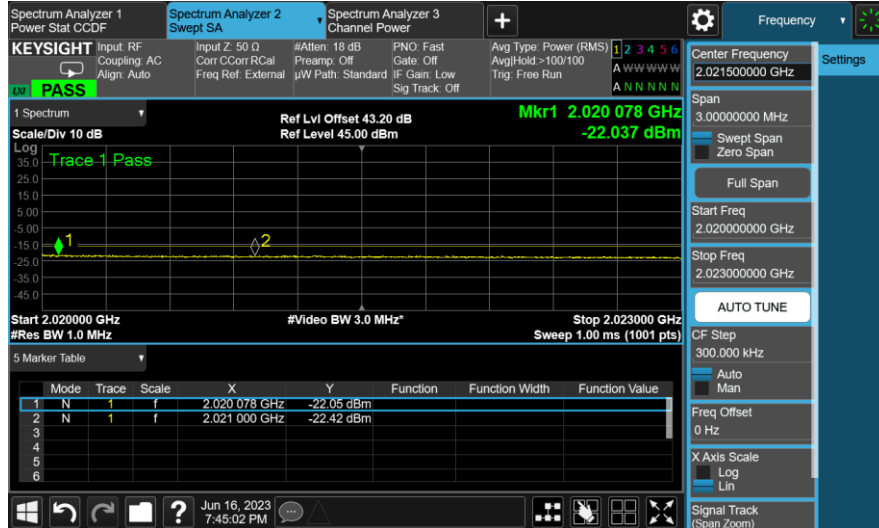


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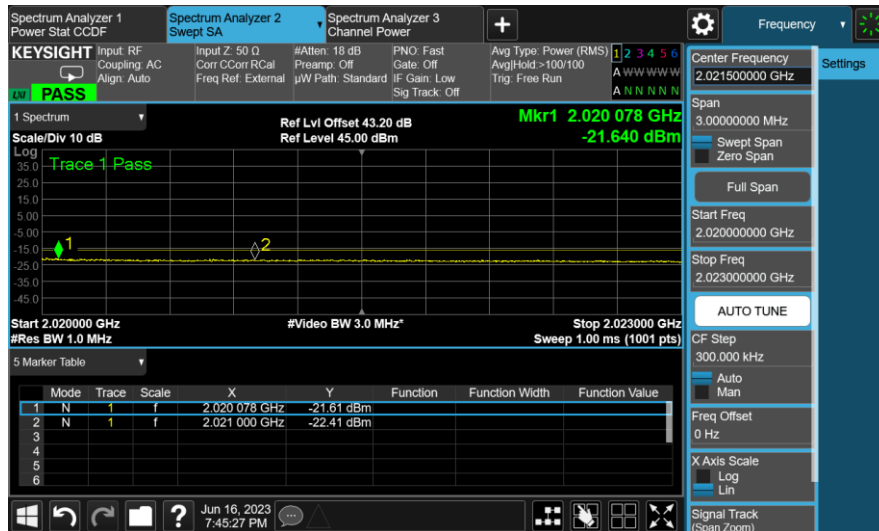
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



DL_100MHz AWGN_HCH_a single test signal_3dB above AGC

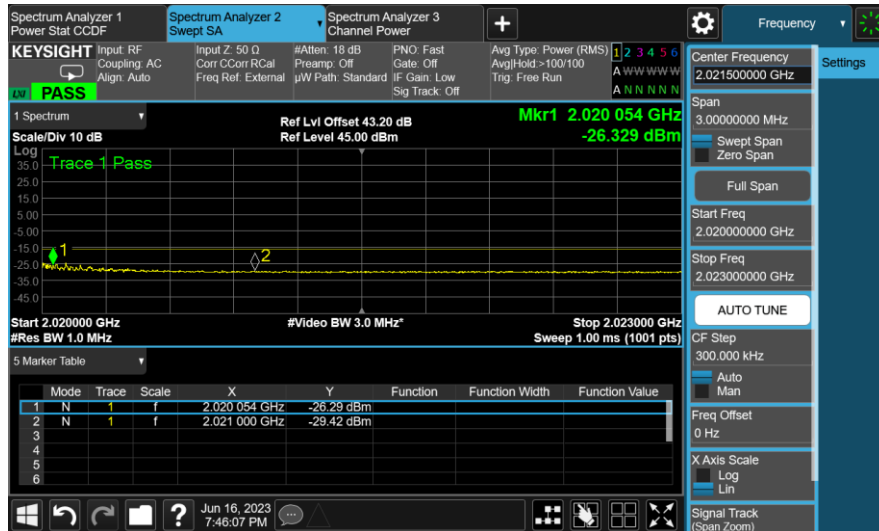


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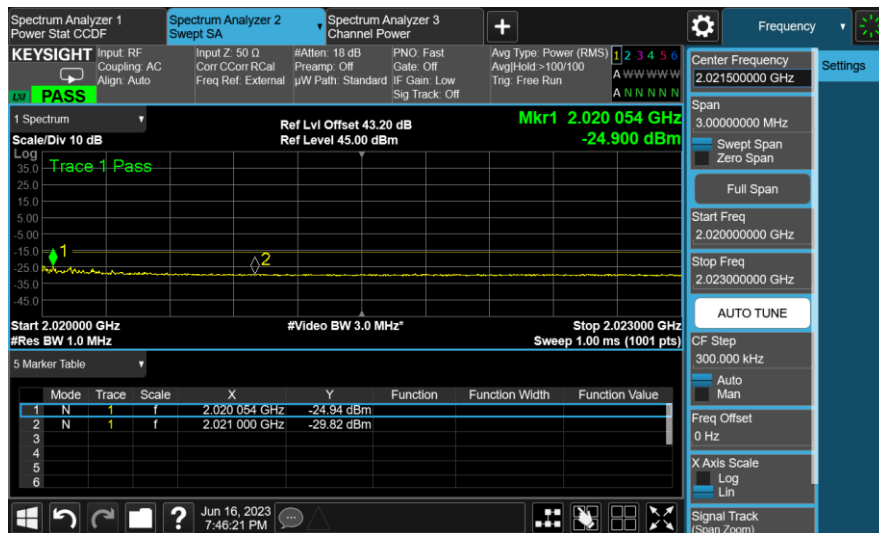
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_100MHz AWGN_HCH_two adjacent test signals_3dB above AGC

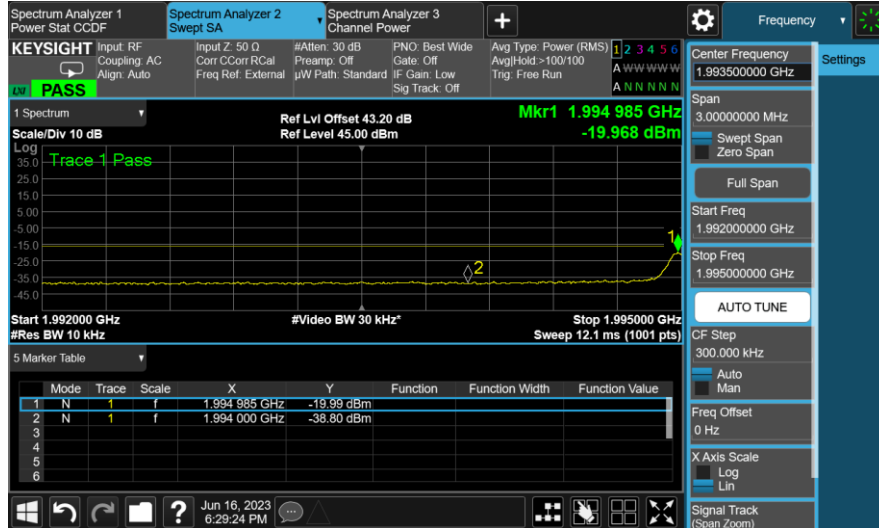


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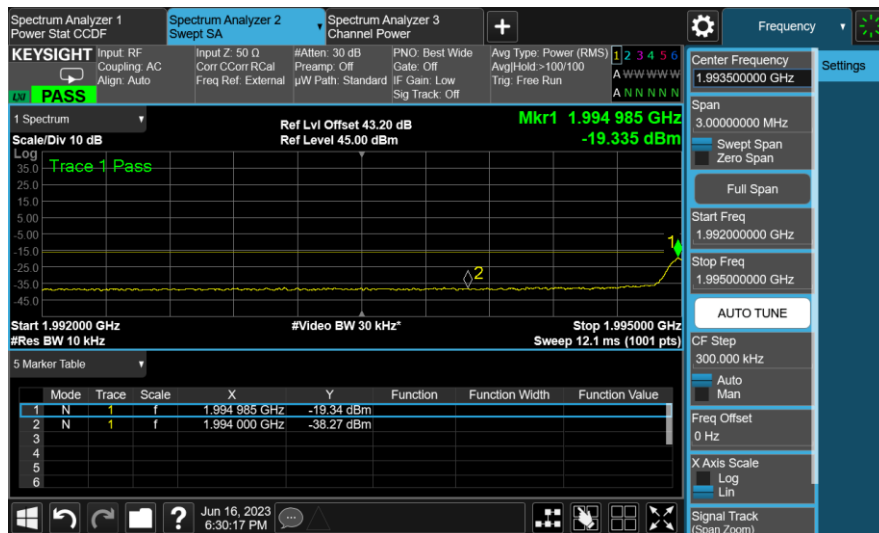
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



DL_GSM_LCH_a single test signal_3dB above AGC

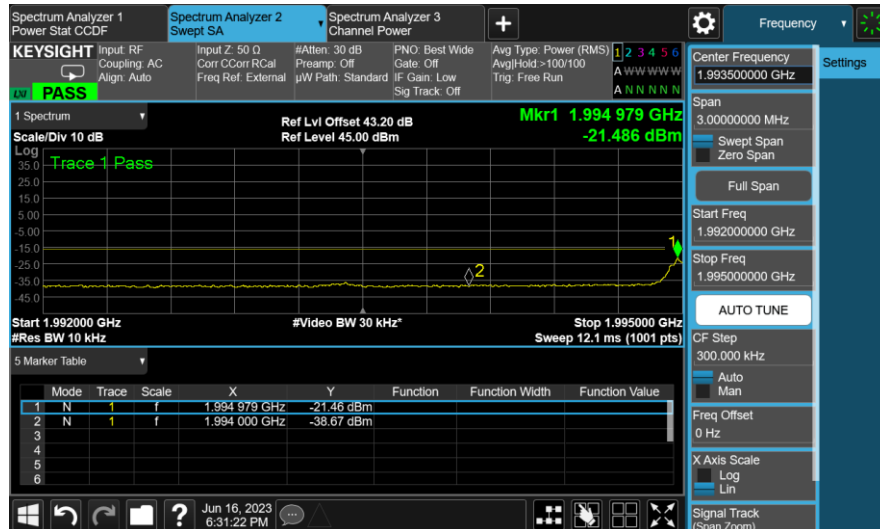


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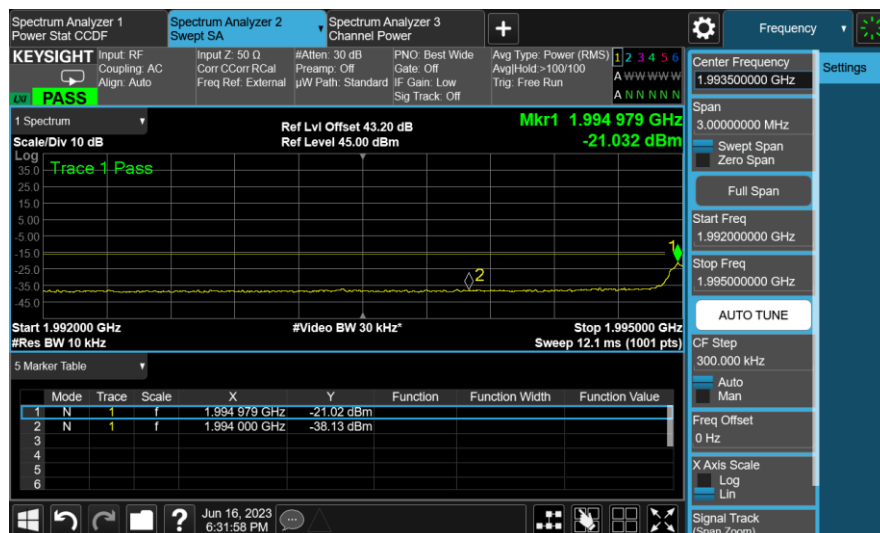
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC



DL_GSM_LCH_two adjacent test signals_3dB above AGC

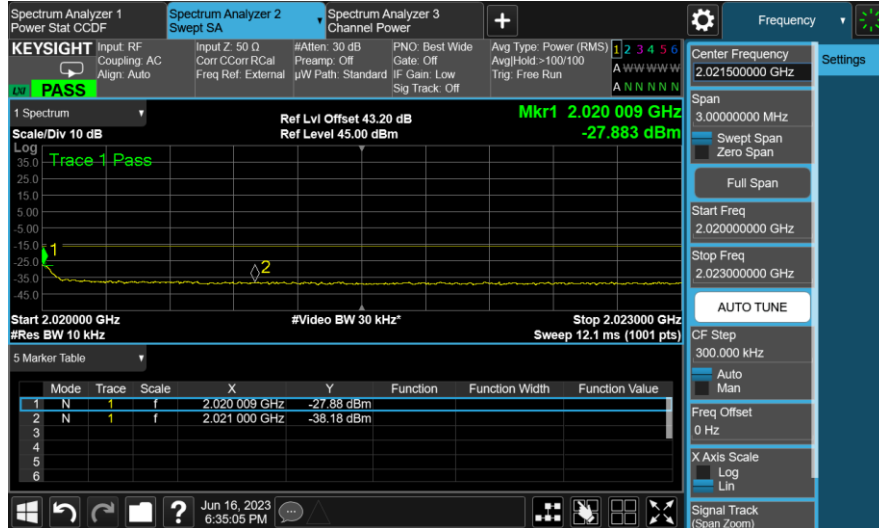


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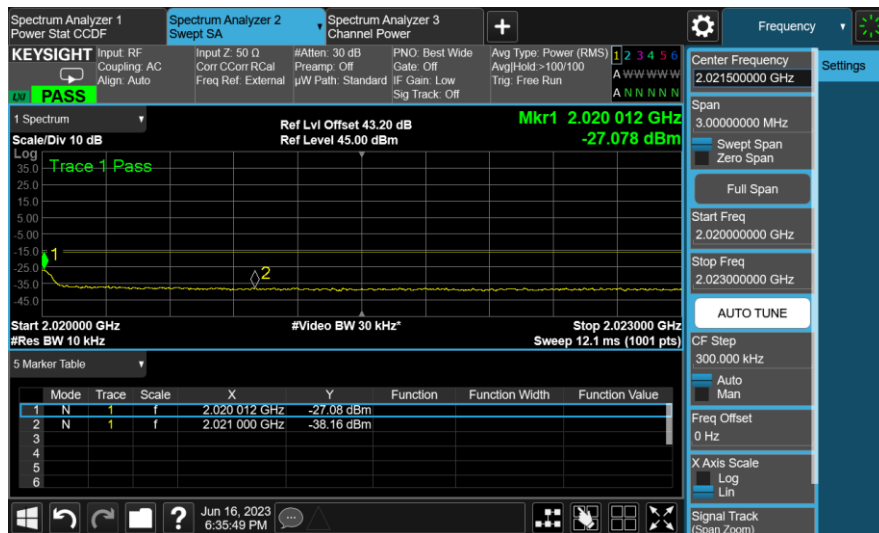
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



DL_GSM_HCH_a single test signal_3dB above AGC

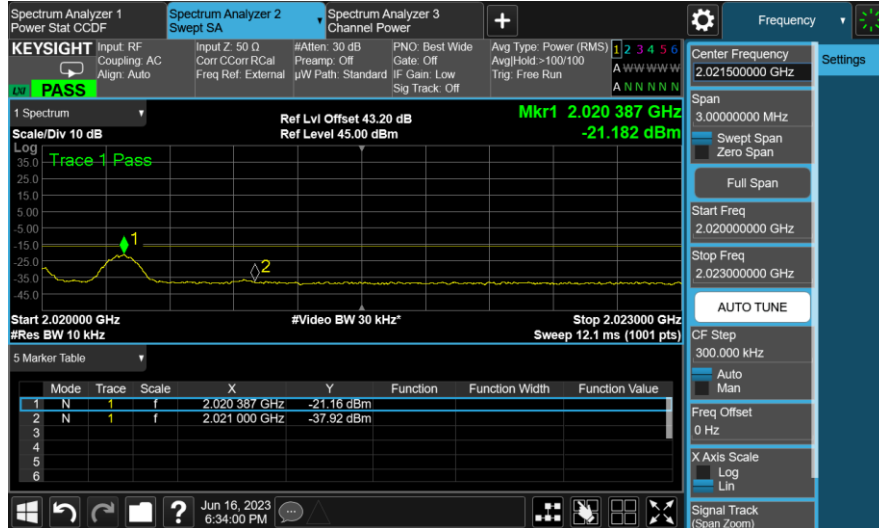


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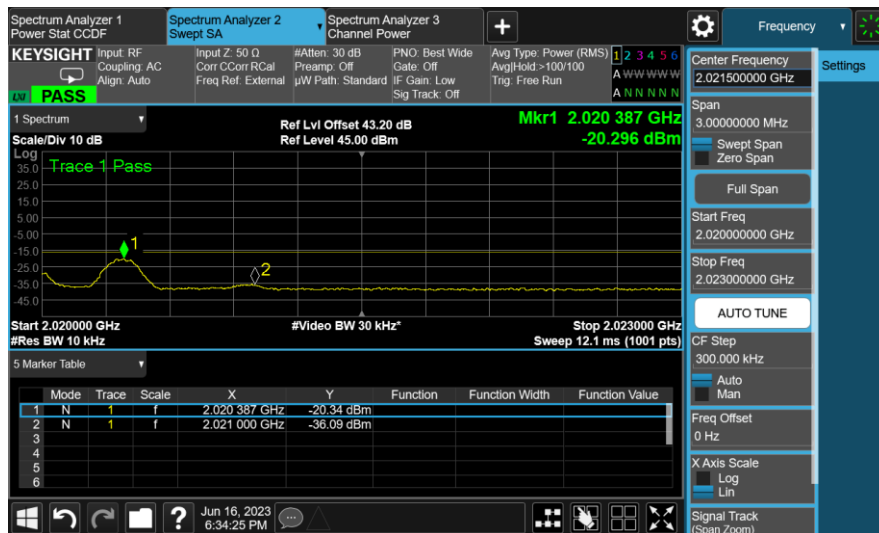
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



DL_GSM_HCH_two adjacent test signals_3dB above AGC



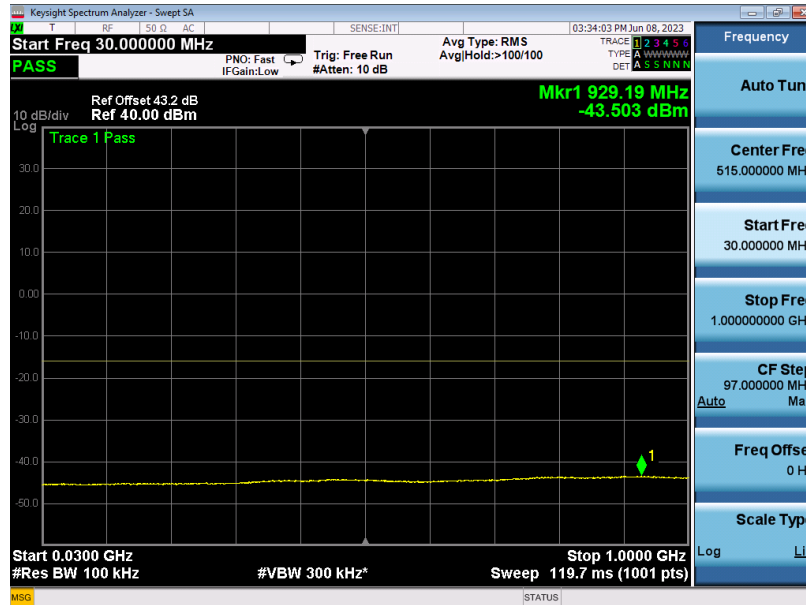
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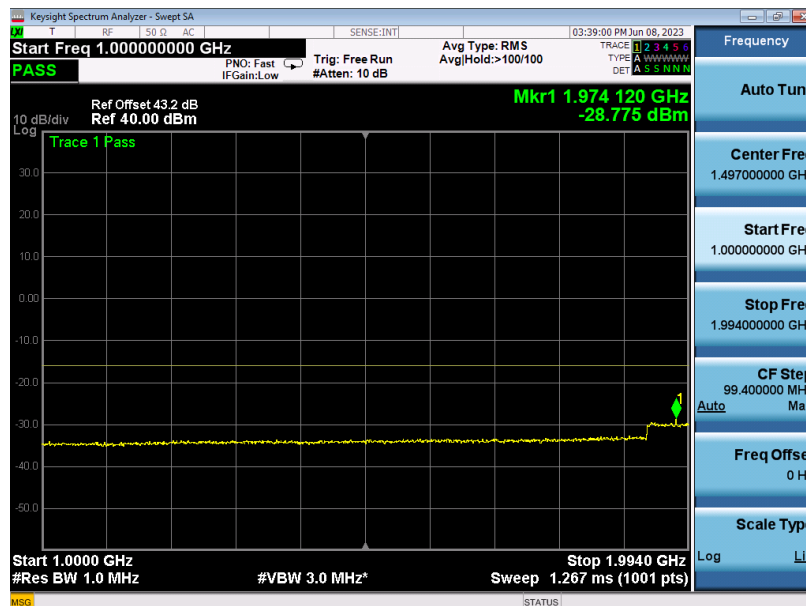
5 Conducted Spurious emissions

Conducted spurious emissions

DL_4.1MHz AWGN_MCH_Pre-AGC



DL_4.1MHz AWGN_MCH_Pre-AGC



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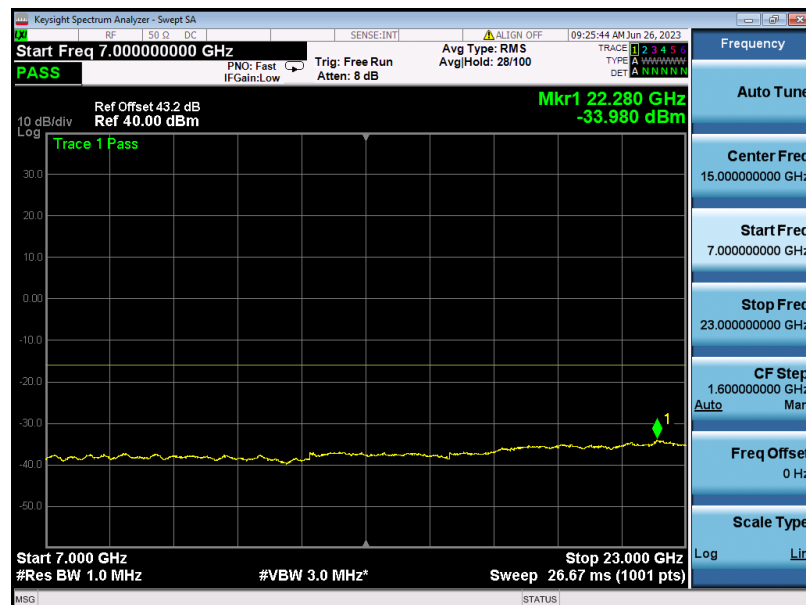
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Conducted spurious emissions

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	2007.5	4.1MHz AWGN	TN	VL	14	0.0070	PASS
			TN	VH	22	0.0110	PASS
		100MHz AWGN	TN	VL	15	0.0075	PASS
			TN	VH	18	0.0090	PASS
	GSM		TN	VL	23	0.0115	PASS
			TN	VH	10	0.0050	PASS



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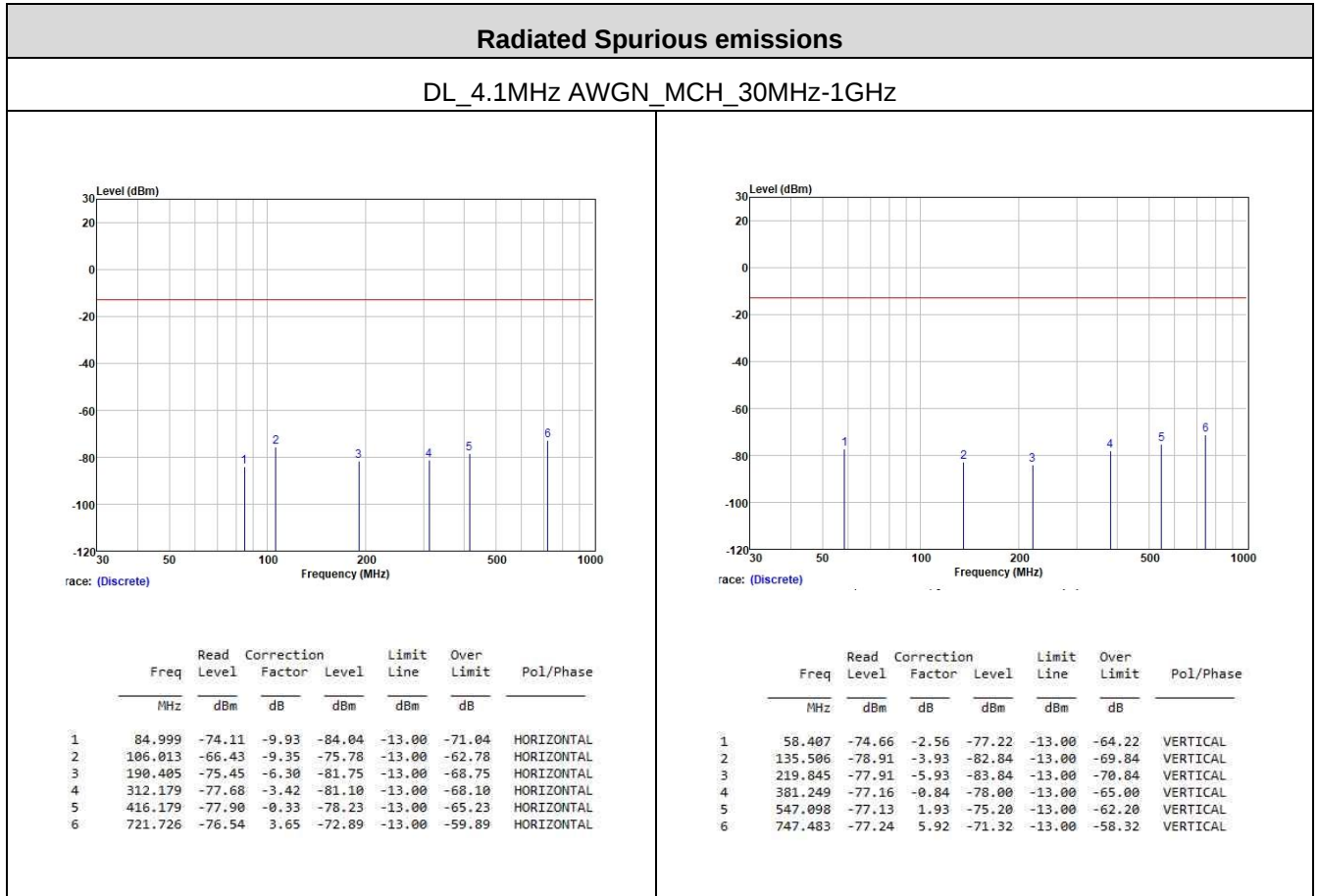
Frequency stability vs temperature							
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	2007.5	5MHz AWGN	VN	+50	26	0.0130	PASS
			VN	+40	23	0.0115	PASS
			VN	+30	15	0.0075	PASS
			VN	+20	12	0.0060	PASS
			VN	+10	22	0.0110	PASS
			VN	0	28	0.0139	PASS
			VN	-10	19	0.0095	PASS
			VN	-20	15	0.0075	PASS
			VN	-30	13	0.0065	PASS
	2007.5	100MHz AWGN	VN	+50	22	0.0110	PASS
			VN	+40	24	0.0120	PASS
			VN	+30	17	0.0085	PASS
			VN	+20	19	0.0095	PASS
			VN	+10	14	0.0070	PASS
			VN	0	20	0.0100	PASS
			VN	-10	17	0.0085	PASS
			VN	-20	16	0.0080	PASS
			VN	-30	18	0.0090	PASS
	2007.5	GSM	VN	+50	13	0.0065	PASS
			VN	+40	21	0.0105	PASS
			VN	+30	27	0.0134	PASS
			VN	+20	20	0.0100	PASS
			VN	+10	16	0.0080	PASS
			VN	0	18	0.0090	PASS
			VN	-10	17	0.0085	PASS
			VN	-20	24	0.0120	PASS
			VN	-30	21	0.0105	PASS



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7 Radiated Spurious emissions

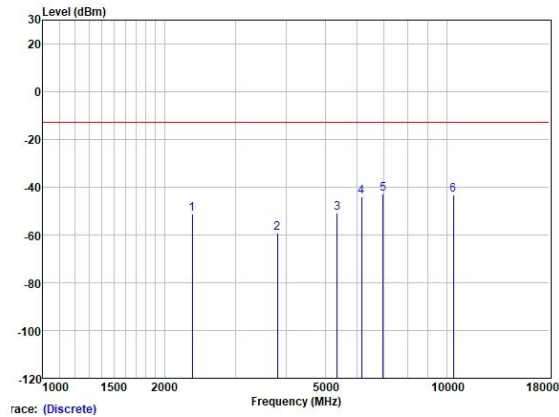


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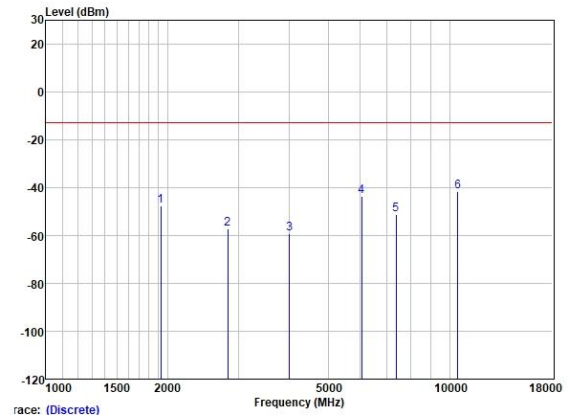
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



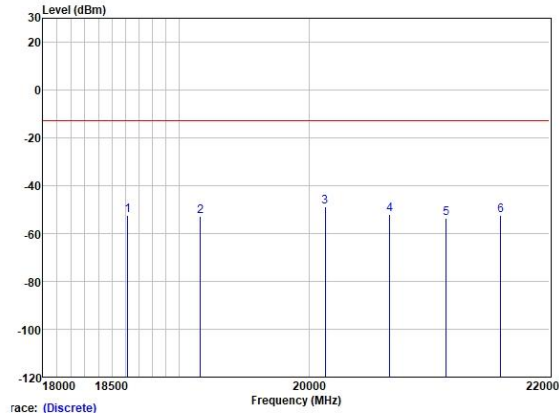
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	2345.878	-60.58	9.55	-51.03	-13.00	-38.03	HORIZONTAL
2	3812.336	-62.26	3.22	-59.04	-13.00	-46.04	HORIZONTAL
3	5361.833	-63.54	12.82	-50.72	-13.00	-37.72	HORIZONTAL
4	6159.797	-62.88	19.07	-43.81	-13.00	-30.81	HORIZONTAL
5	6954.852	-62.35	19.66	-42.69	-13.00	-29.69	HORIZONTAL
6	10393.710	-65.93	22.88	-43.05	-13.00	-30.05	HORIZONTAL



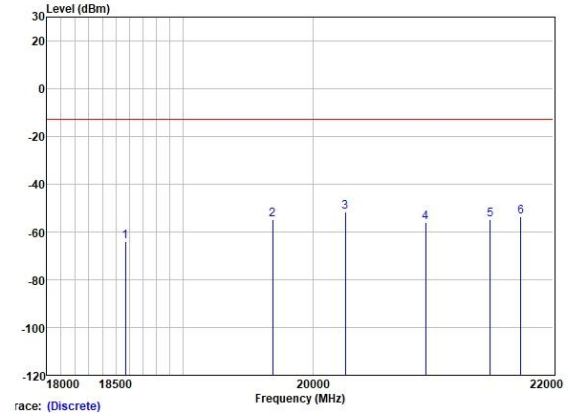
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1927.289	-54.86	7.31	-47.55	-13.00	-34.55	VERTICAL
2	2822.558	-61.32	4.24	-57.08	-13.00	-44.08	VERTICAL
3	4015.929	-62.74	3.53	-59.21	-13.00	-46.21	VERTICAL
4	6053.894	-63.06	19.43	-43.63	-13.00	-30.63	VERTICAL
5	7368.741	-68.35	17.30	-51.05	-13.00	-38.05	VERTICAL
6	10484.230	-66.11	24.54	-41.57	-13.00	-28.57	VERTICAL

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	18613.910	-89.12	36.68	-52.44	-13.00	-39.44	HORIZONTAL
2	19156.750	-90.50	37.81	-52.69	-13.00	-39.69	HORIZONTAL
3	20129.030	-87.45	38.51	-48.94	-13.00	-35.94	HORIZONTAL
4	20649.990	-90.40	38.55	-51.85	-13.00	-38.85	HORIZONTAL
5	21116.890	-92.38	38.61	-53.77	-13.00	-40.77	HORIZONTAL
6	21577.110	-91.00	38.68	-52.32	-13.00	-39.32	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	18569.370	-93.08	29.08	-64.00	-13.00	-51.00	VERTICAL
2	19683.970	-89.51	34.64	-54.87	-13.00	-41.87	VERTICAL
3	20258.020	-87.01	35.25	-51.76	-13.00	-38.76	VERTICAL
4	20915.510	-91.24	35.39	-55.85	-13.00	-42.85	VERTICAL
5	21456.840	-90.35	35.57	-54.78	-13.00	-41.78	VERTICAL
6	21715.390	-89.40	35.68	-53.72	-13.00	-40.72	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--



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