

Appendix -

Test Data and Result for report

GZCR241100135107 (A)

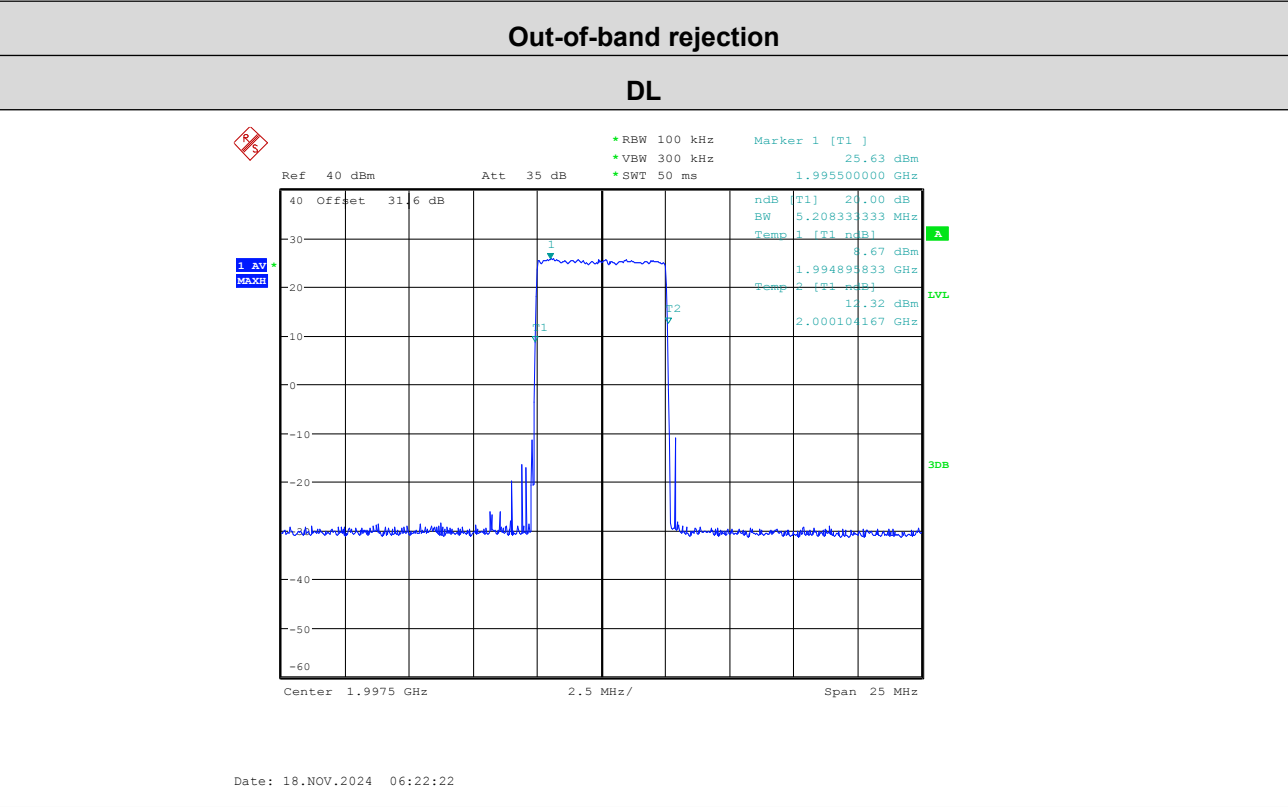
(For AWS-2 Band DL)



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1 Out-of-band rejection



Remark:

- The peak of the frequency response f0 is 1995.5MHz.
- The frequency point f0 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.
- AGC threshold level was measured as below:

Test Path	Test Signal	Test Channel	AGC threshold level
DL	4.1MHz AWGN	MCH	15.15dBm
	100MHz AWGN	MCH	15.10dBm
	GSM	MCH	15.15dBm

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.

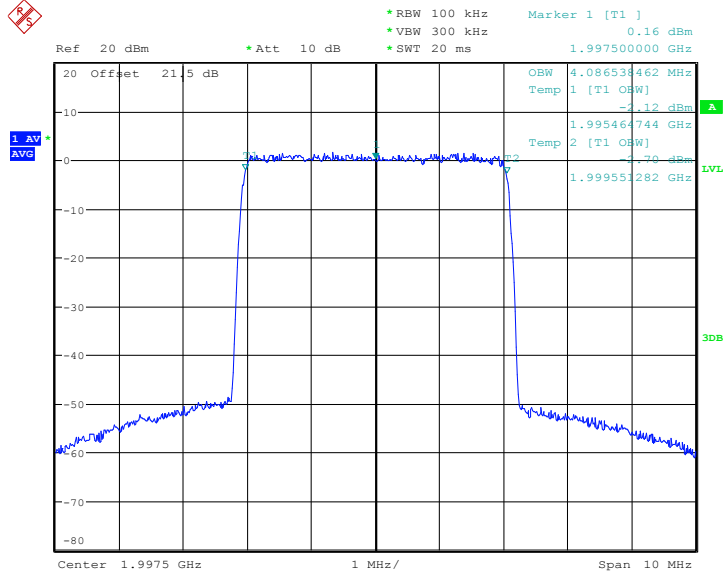


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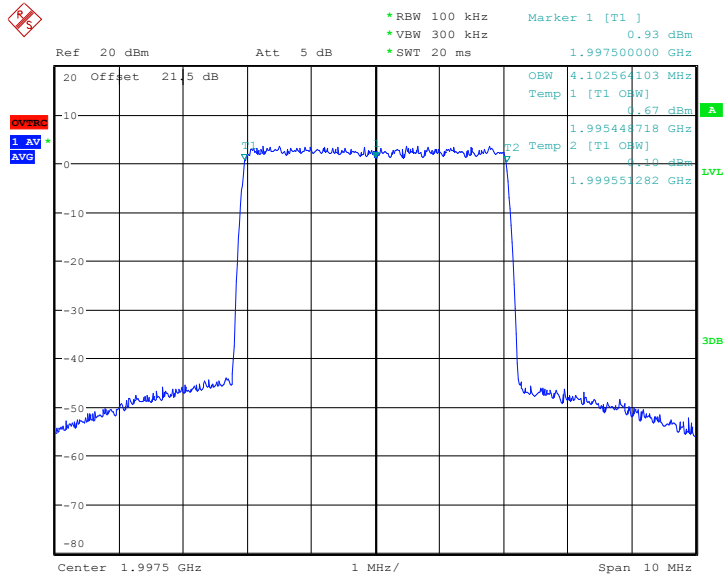
99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



Date: 19.NOV.2024 12:15:06

DL_4.1MHz AWGN_MCH_Input_3dB above AGC



Date: 19.NOV.2024 12:16:13



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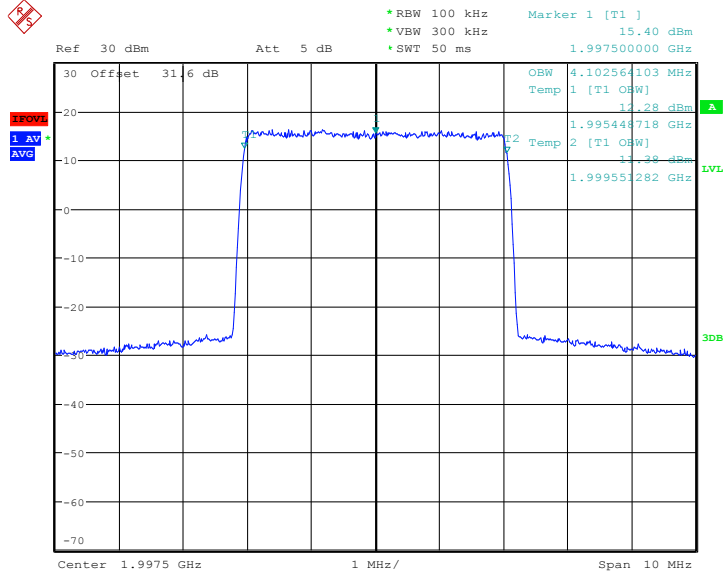
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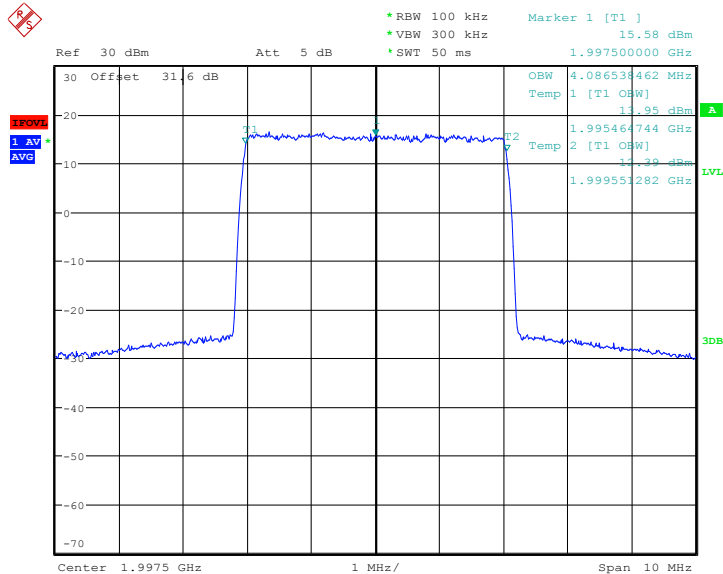
99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC



Date: 18.NOV.2024 07:13:04

DL_4.1MHz AWGN_MCH_Output_3dB above AGC



Date: 18.NOV.2024 07:13:12



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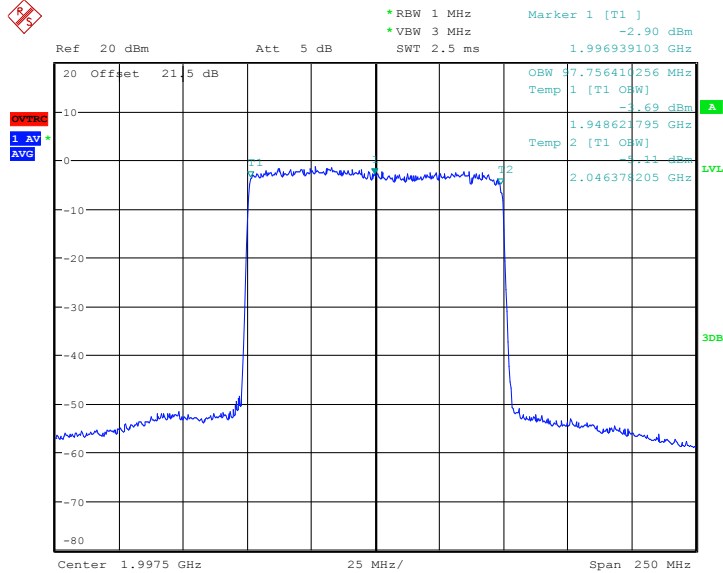
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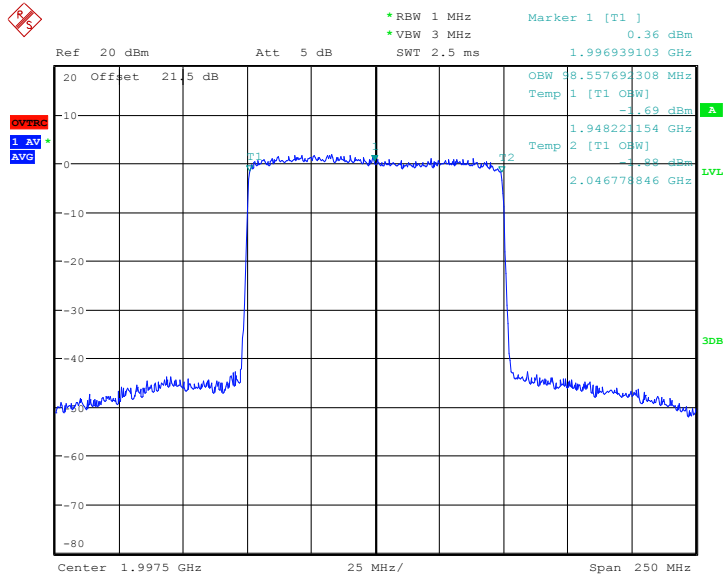
99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC



Date: 19.NOV.2024 12:19:13

DL_100MHz AWGN_MCH_Input_3dB above AGC



Date: 19.NOV.2024 12:19:22



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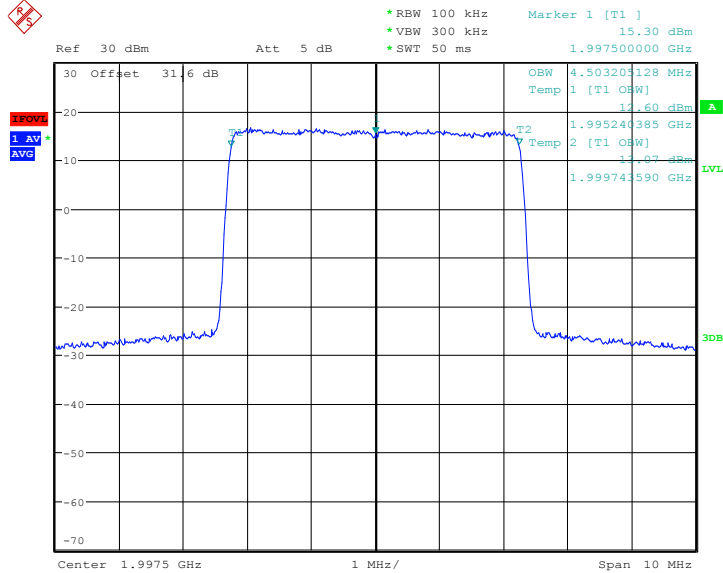
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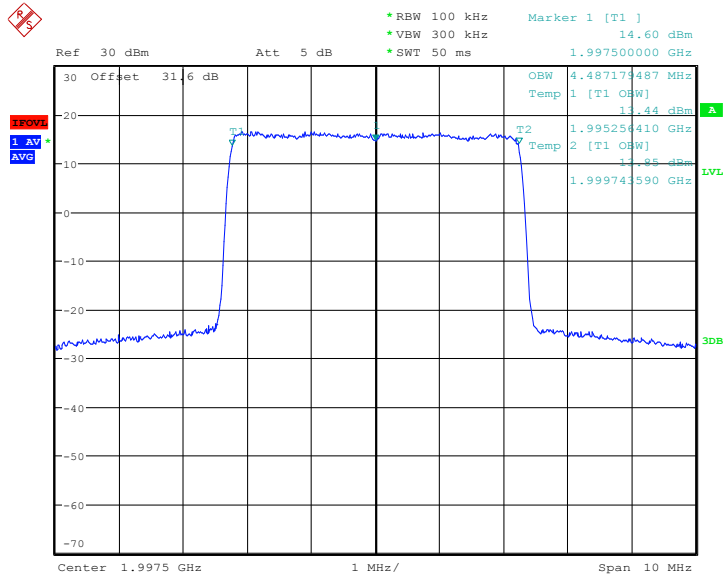
99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



Date: 18.NOV.2024 07:22:26

DL_100MHz AWGN_MCH_Output_3dB above AGC



Date: 18.NOV.2024 07:22:34



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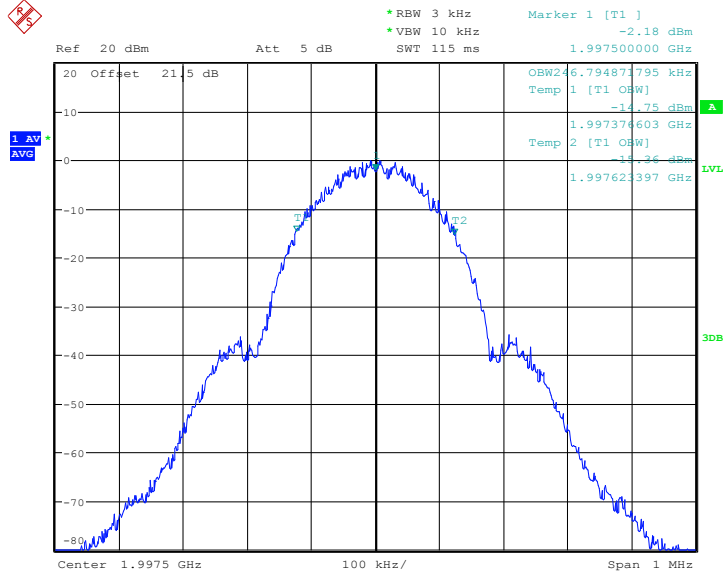
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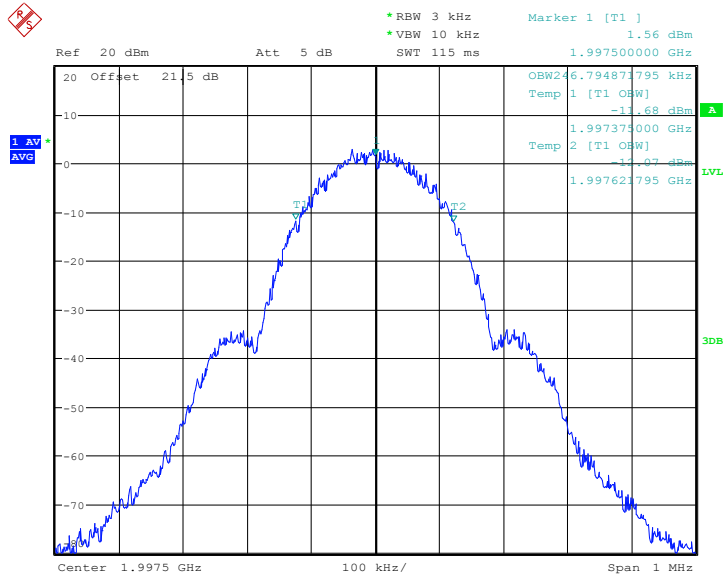
99% OBW

DL_GSM_MCH_Input_Pre-AGC



Date: 19.NOV.2024 12:09:49

DL_GSM_MCH_Input_3dB above AGC



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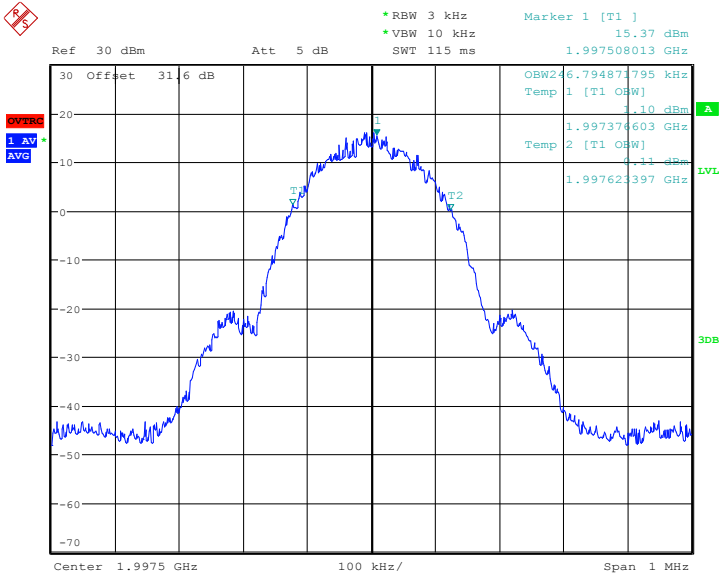
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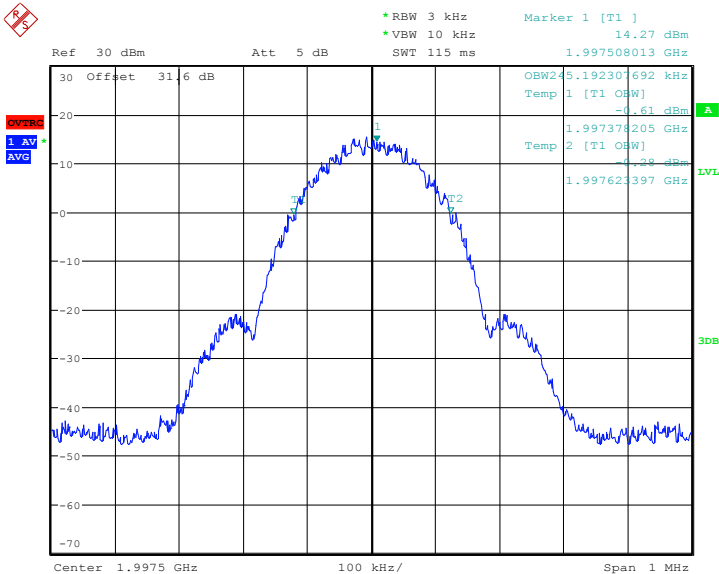
99% OBW

DL_GSM_MCH_Output_Pre-AGC



Date: 18.NOV.2024 07:15:55

DL_GSM_MCH_Output_3dB above AGC



Date: 18.NOV.2024 07:16:02



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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 (dBm)	EIRP (W)	Gain (dB)
DL	1995.5	4.1MHz AWGN	Pre-AGC	15	33.19	38.19	6.60	18.19
			3dB above AGC	18	33.58	38.58	7.22	/
		100MHz AWGN	Pre-AGC	15	33.11	38.11	6.48	18.11
			3dB above AGC	18	33.15	38.15	6.54	/
		GSM	Pre-AGC	15	33.76	38.76	7.52	18.76
			3dB above AGC	18	34.10	39.10	8.13	/

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (dBm/MHz)	EIRP (W/MHz)	Verdict
DL	1995.5	4.1MHz AWGN	Pre-AGC	25.93	30.93	1.24	PASS
			3dB above AGC	26.43	31.43	1.39	PASS
		100MHz AWGN	Pre-AGC	25.89	30.89	1.23	PASS
			3dB above AGC	26.05	31.05	1.28	PASS
		GSM	Pre-AGC	33.76	38.76	7.52	PASS
			3dB above AGC	34.10	39.10	8.13	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report. EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi 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
DL	1995.5	4.1MHz AWGN	Pre-AGC	9.79	≤13	PASS
			3dB above AGC	9.76		PASS
		100MHz AWGN	Pre-AGC	9.94		PASS
			3dB above AGC	9.88		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.						

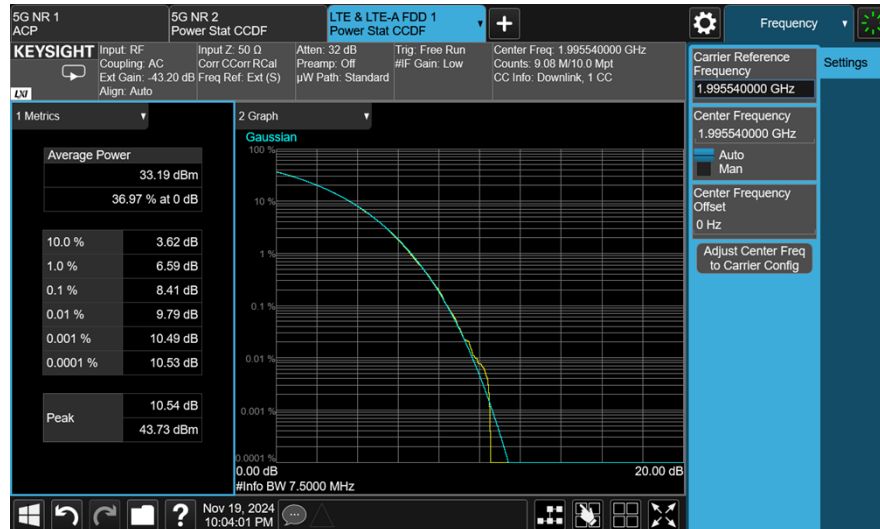


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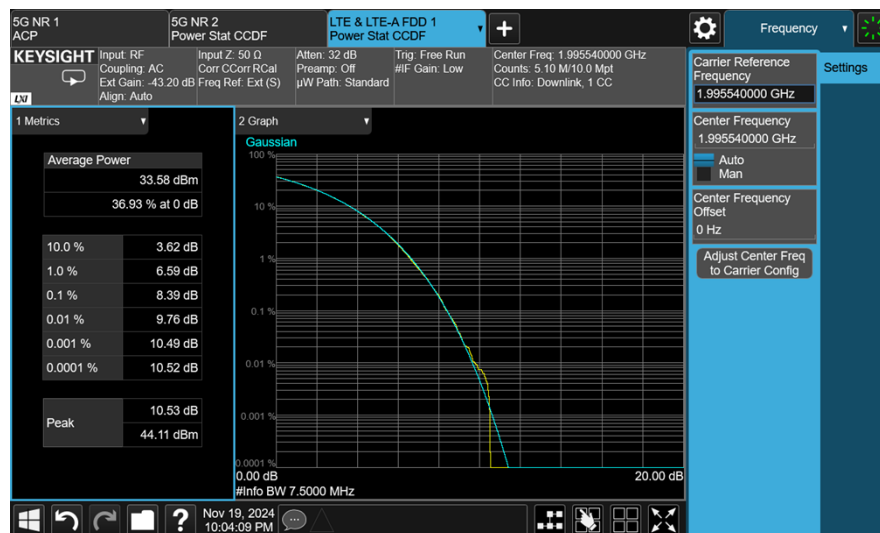
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Peak-to-average ratio (PAR)

DL_4.1MHz AWGN_Pre-AGC



DL_4.1MHz AWGN_3dB above AGC

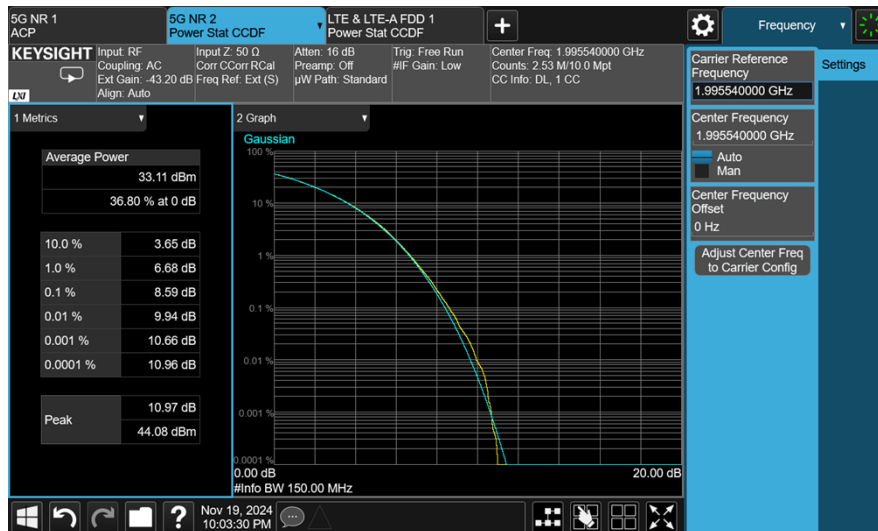


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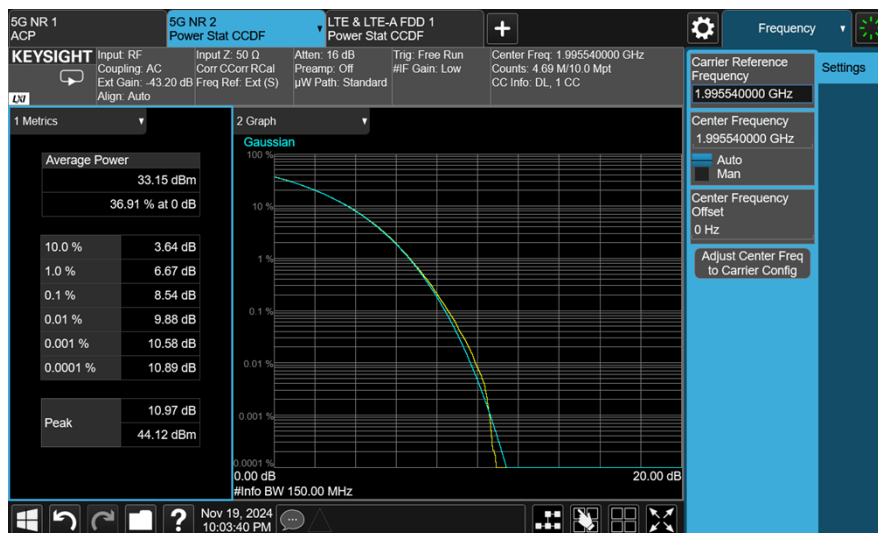
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Peak-to-average ratio (PAR)

DL_100MHz AWGN_Pre-AGC



DL_100MHz AWGN_3dB above 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	-25.89	≤-13	PASS
				3dB above AGC	-26.11		PASS
	HCH		One signal input	Pre-AGC	-26.31		PASS
				3dB above AGC	-26.40		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-18.15	≤-13	PASS
				3dB above AGC	-18.20		PASS
	HCH		One signal input	Pre-AGC	-14.55		PASS
				3dB above AGC	-14.48		PASS
DL	LCH	GSM	One signal input	Pre-AGC	-20.56	≤-13	PASS
				3dB above AGC	-20.69		PASS
			Two signals input	Pre-AGC	-21.16		PASS
				3dB above AGC	-20.88		PASS
	HCH		One signal input	Pre-AGC	-21.35		PASS
				3dB above AGC	-21.40		PASS
			Two signals input	Pre-AGC	-21.22		PASS
				3dB above AGC	-22.01		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, here, P= 33dBm= 2W the limit= 33dBm– [43+ 10log10(2W)]dB= -13dBm							

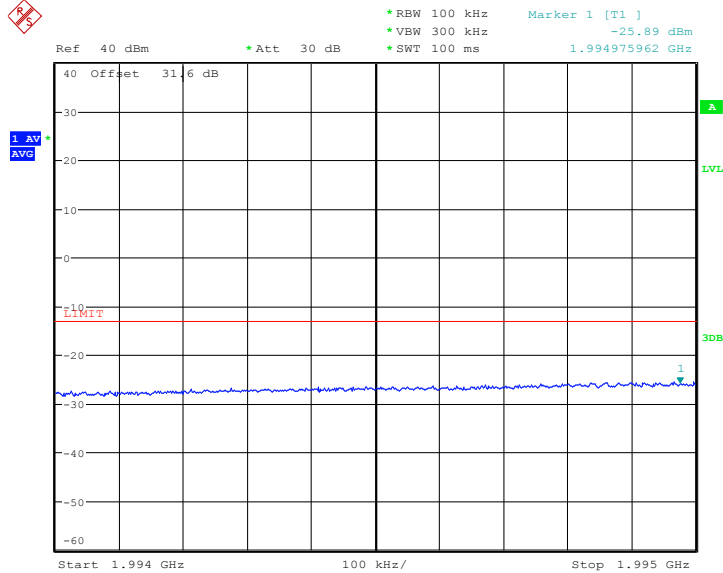


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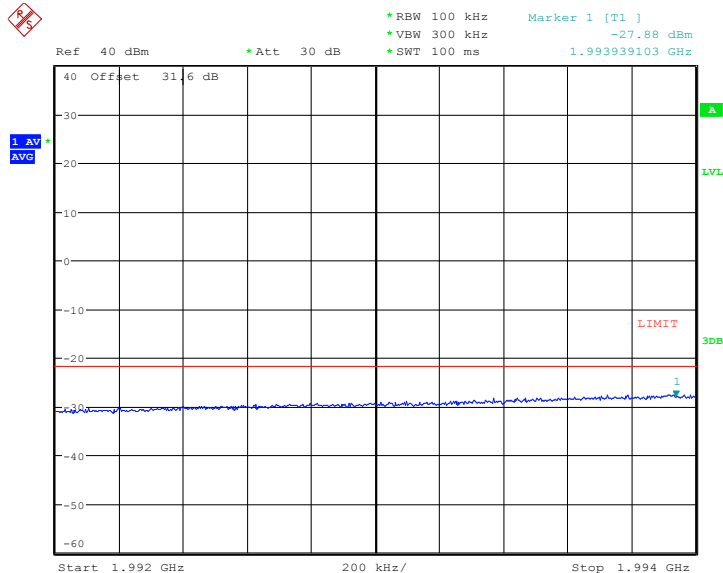
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 03:30:10



Date: 19.NOV.2024 03:31:45



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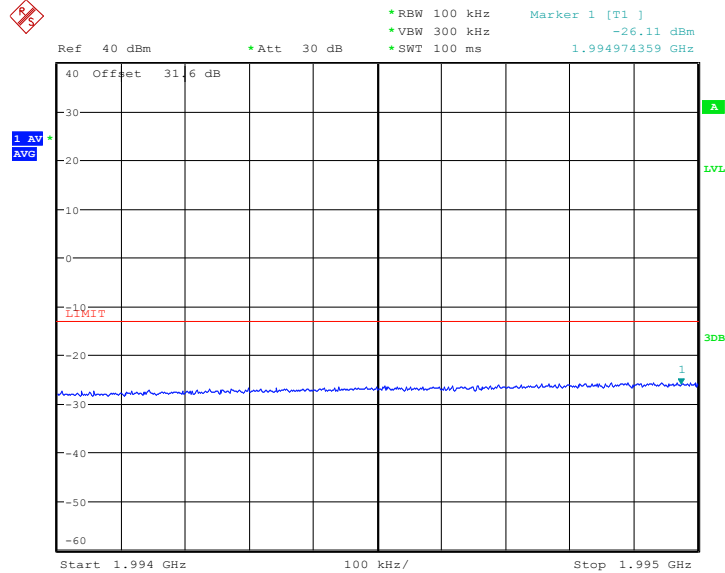
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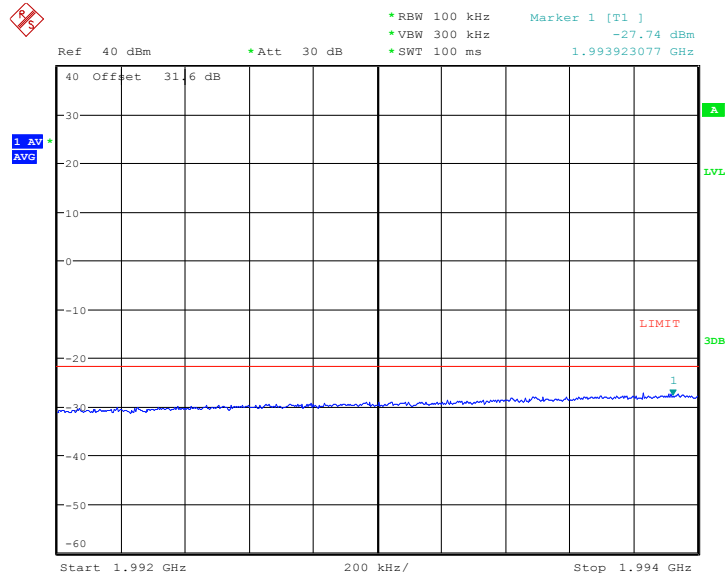
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 03:30:16



Date: 19.NOV.2024 03:31:55



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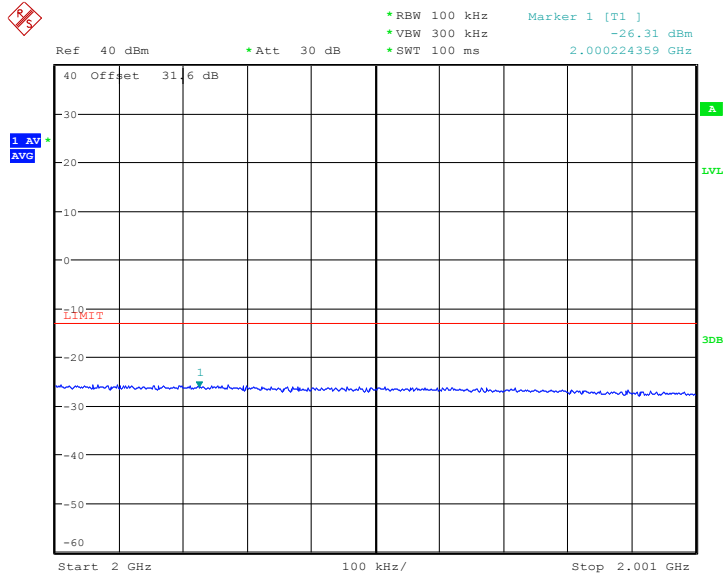
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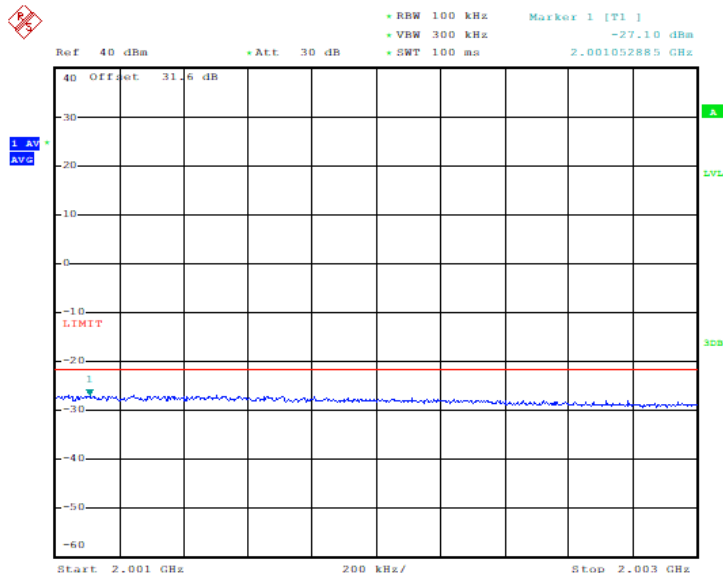
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 03:29:29



Date: 19.NOV.2024 03:32:19

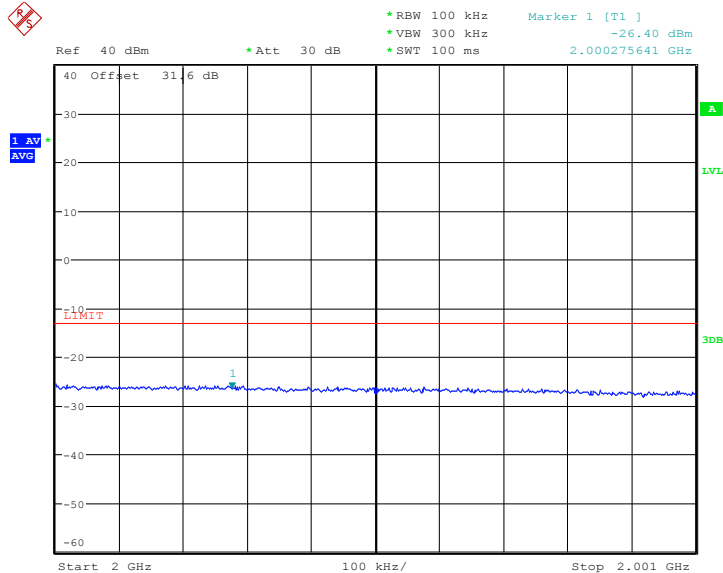


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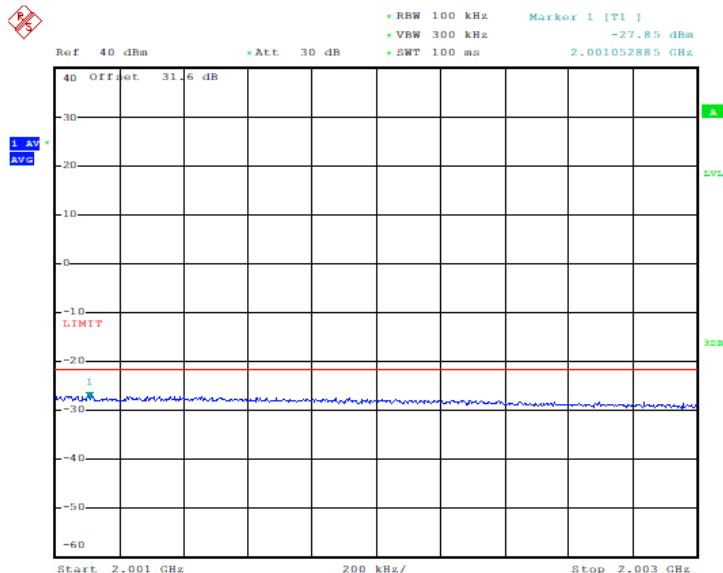
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 03:29:36



Date: 19.NOV.2024 03:32:24



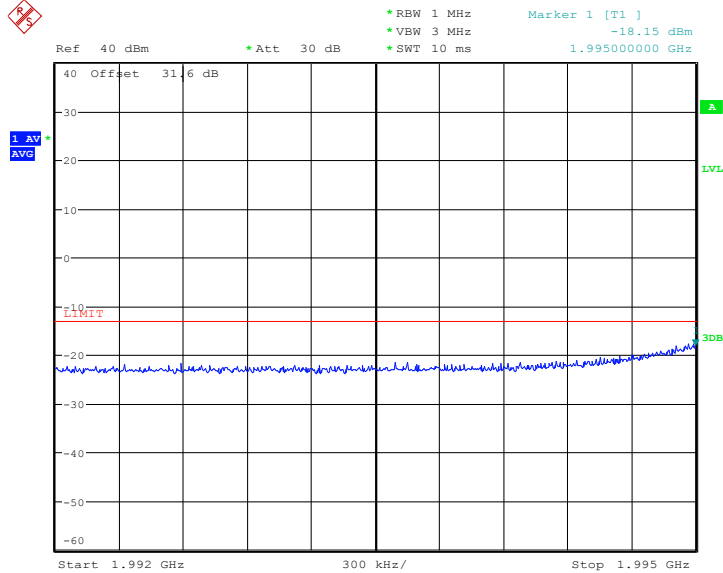
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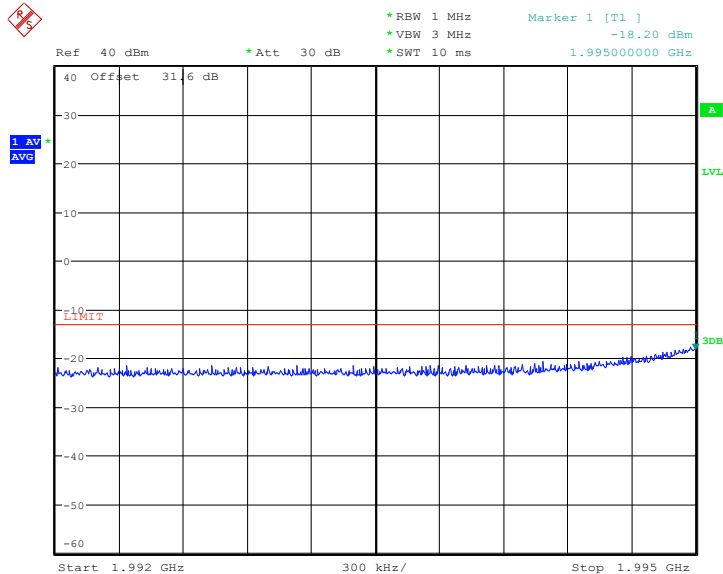
Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 03:20:00

DL_100MHz AWGN_LCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 03:20:09



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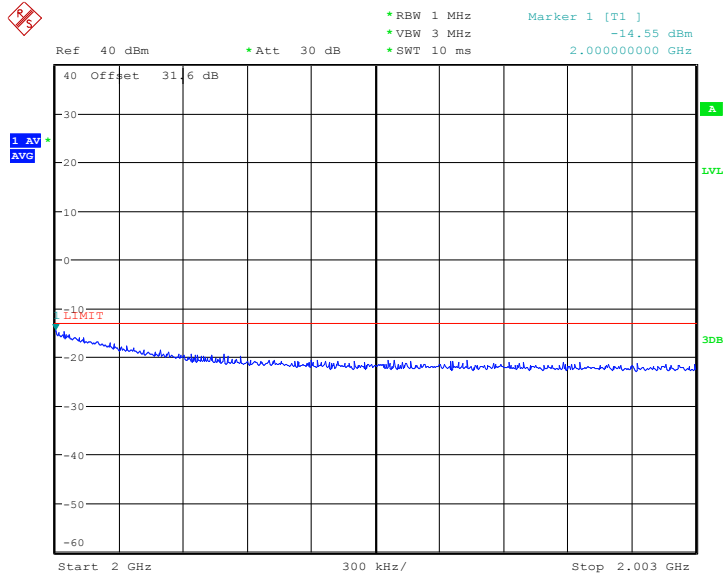
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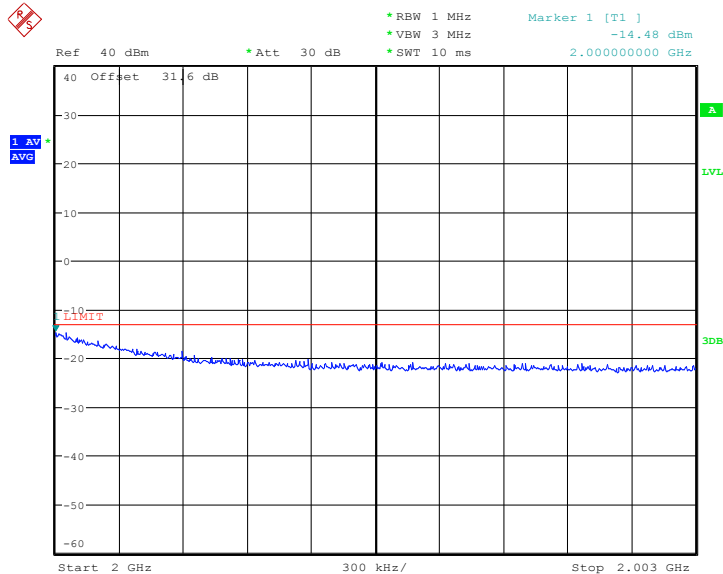
Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 03:20:53

DL_100MHz AWGN_HCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 03:20:57



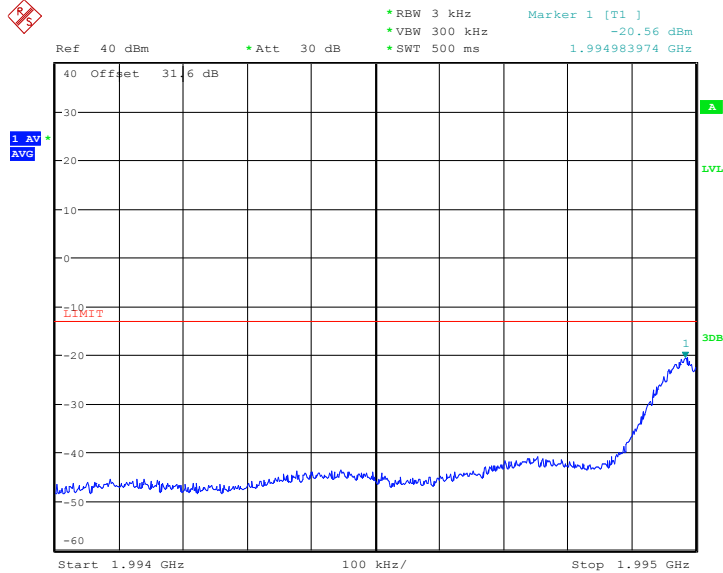
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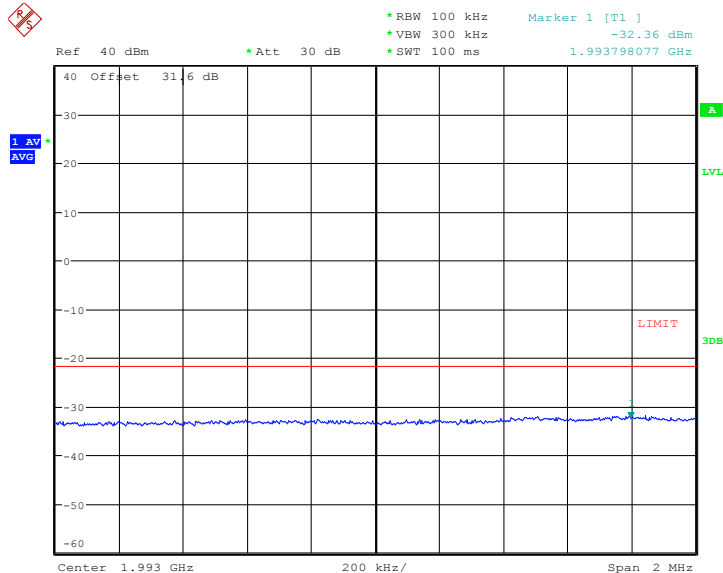
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 04:10:14



Date: 19.NOV.2024 04:06:26



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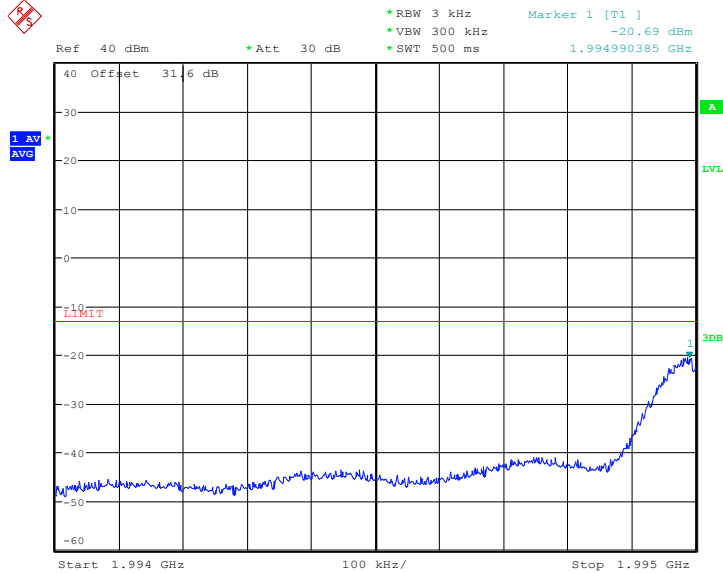
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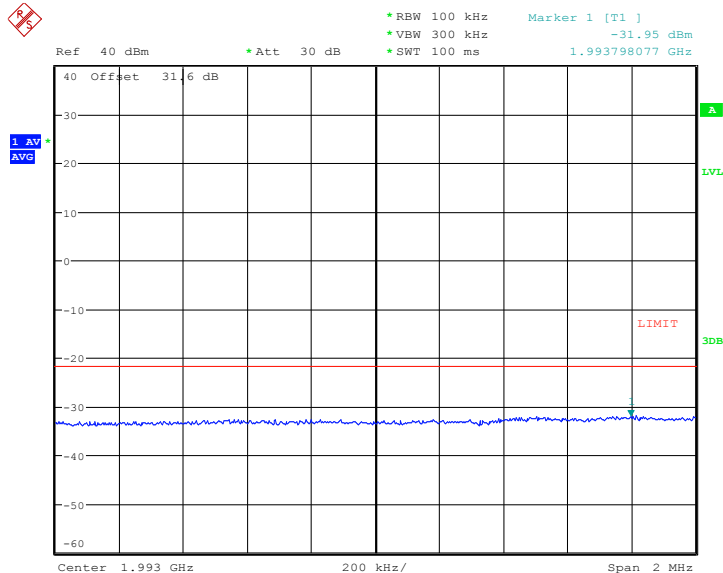
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 04:10:24



Date: 19.NOV.2024 04:06:32



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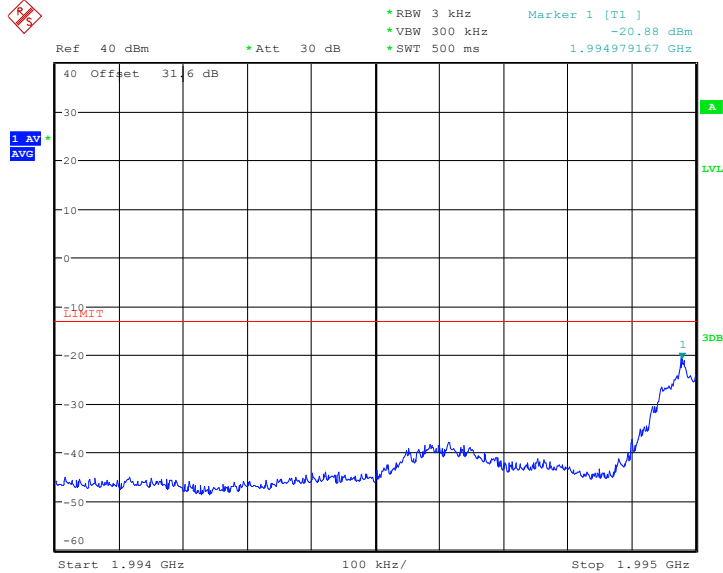
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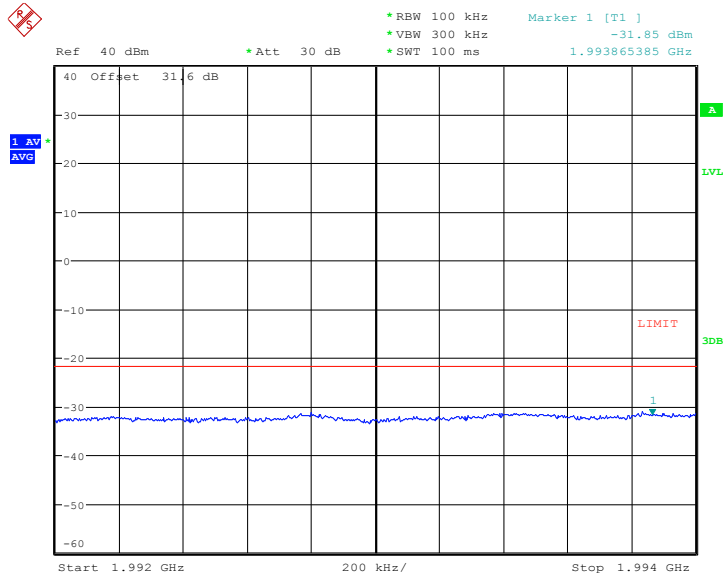
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_3dB above AGC



Date: 19.NOV.2024 04:09:40



Date: 19.NOV.2024 04:07:39



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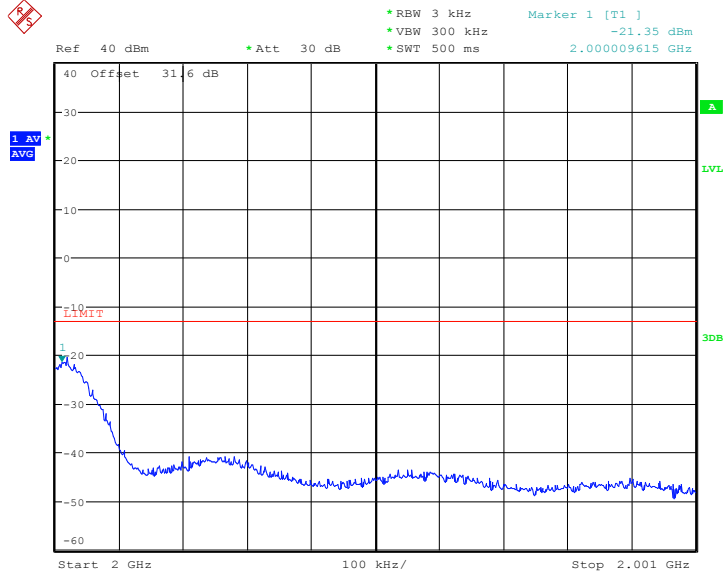
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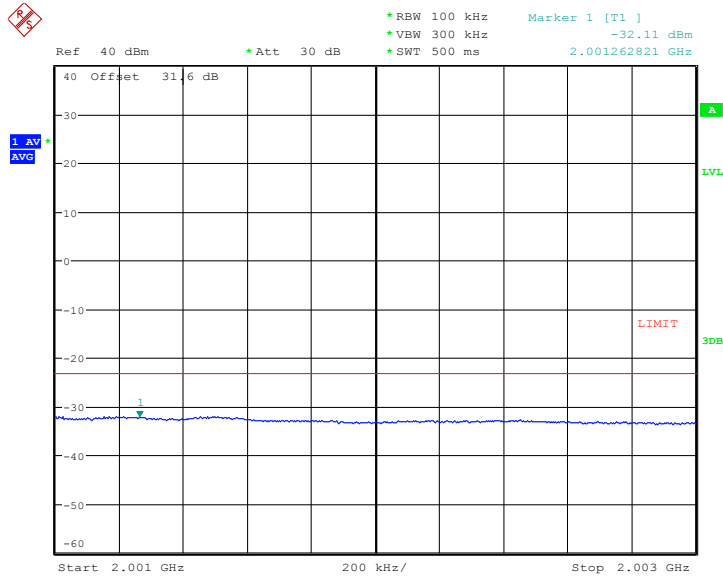
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 04:16:50



Date: 19.NOV.2024 04:20:18



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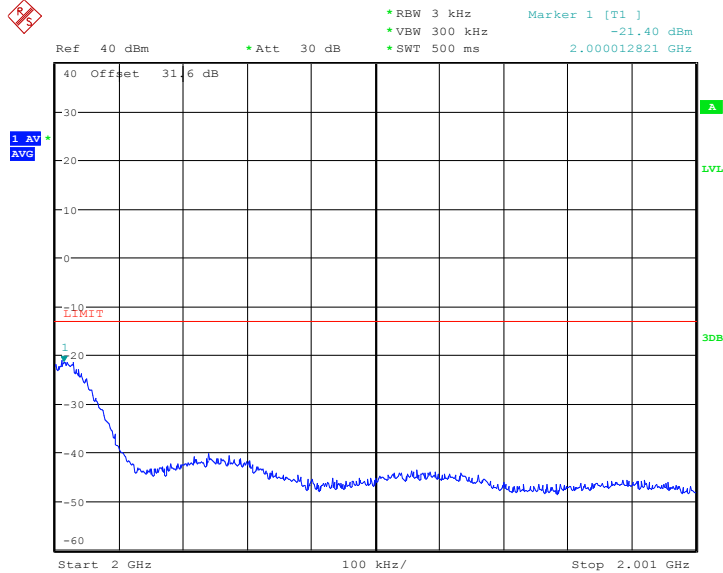
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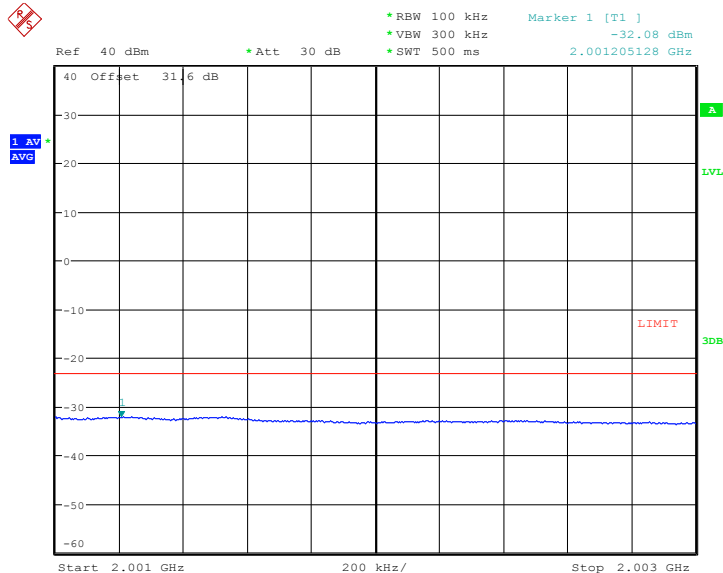
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 04:17:02



Date: 19.NOV.2024 04:20:23



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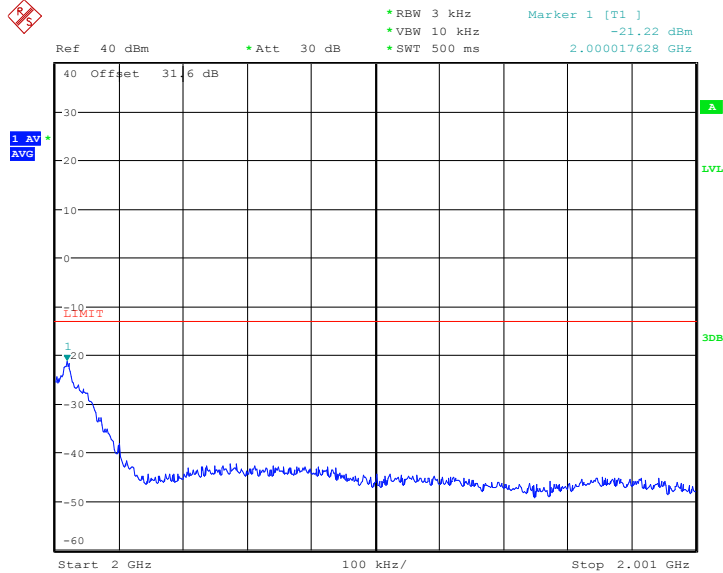
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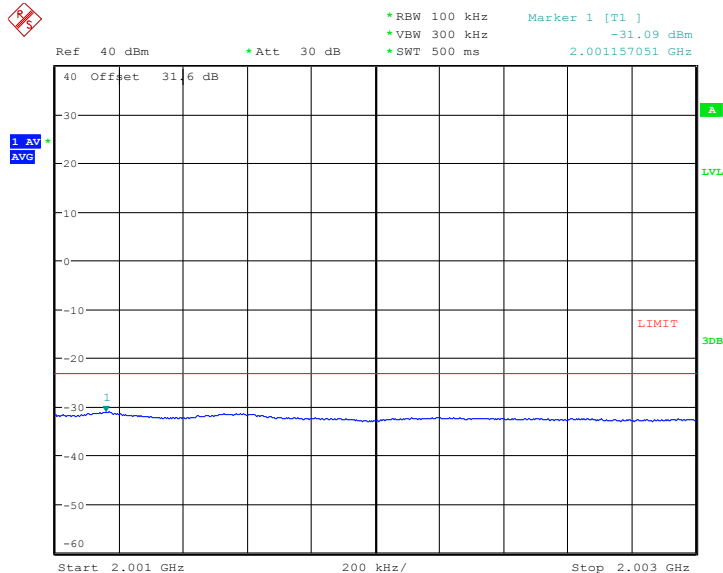
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



Date: 19.NOV.2024 04:17:58



Date: 19.NOV.2024 04:19:02



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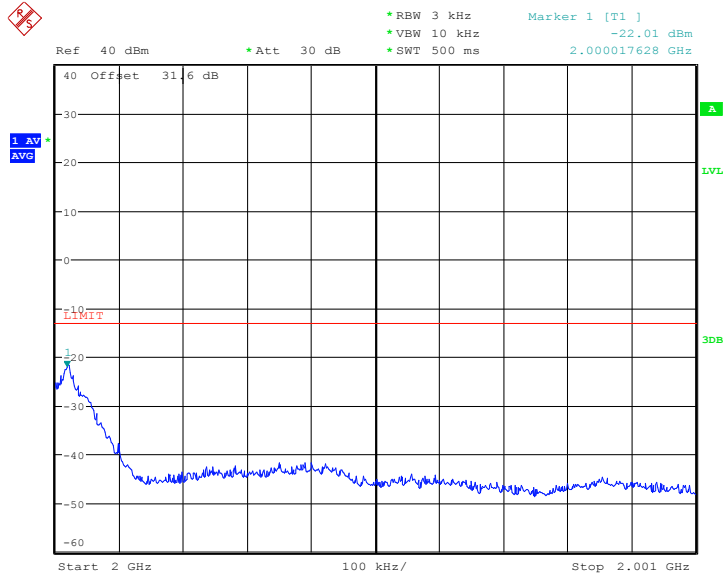
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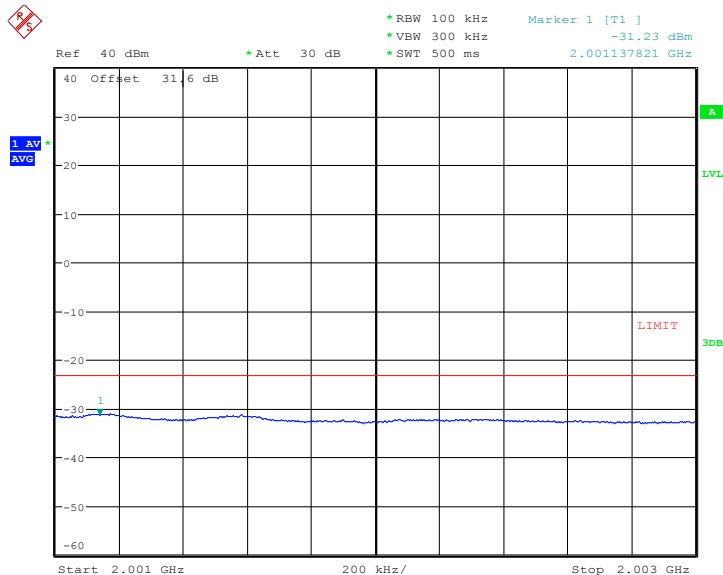
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_3dB above AGC



Date: 19.NOV.2024 04:18:05



Date: 19.NOV.2024 04:19:50



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5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	4.1MHz AWGN	LCH	0.09-1000	-38.35	≤-13	PASS
			1000-1994	-19.96	≤-13	PASS
		HCH	2001-19950	-15.93	≤-13	PASS
			2005-2020	-42.98	≤-40	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,
 $P = 33\text{dBm} = 2\text{W}$
 $\text{limit} = 33\text{dBm} - [43 + 10\log_{10}(2\text{W})]\text{dB} = -13\text{dBm}$
- For operations in the 1995–2000 MHz band, the power of any emission between 2005–2020MHz shall be attenuated below the transmitter power (P) in watts by at least $70 + 10\log_{10}(P)\text{dB}$, here
 $P = 33\text{dBm} = 2\text{W}$
 $\text{limit} = 33\text{dBm} - [70 + 10\log_{10}(2\text{W})]\text{dB} = -40\text{dBm}$
- All modes (LCH/MCH/HCH, with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.

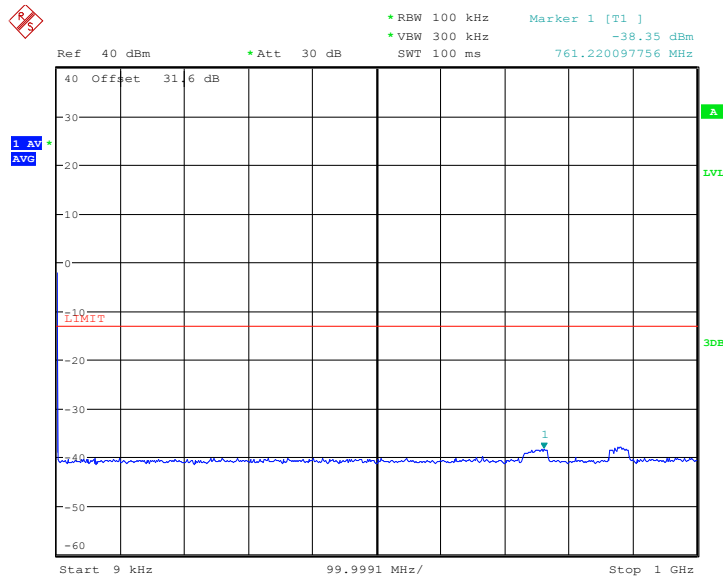


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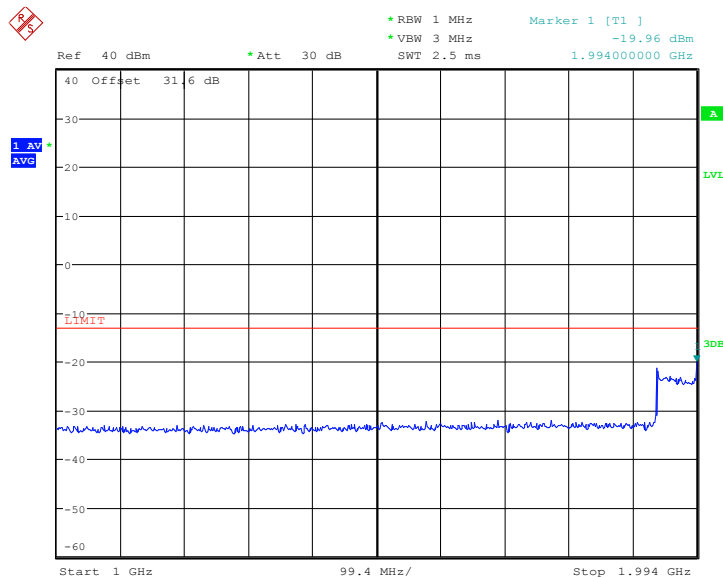
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Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC



Date: 19.NOV.2024 03:00:50



Date: 19.NOV.2024 03:01:55



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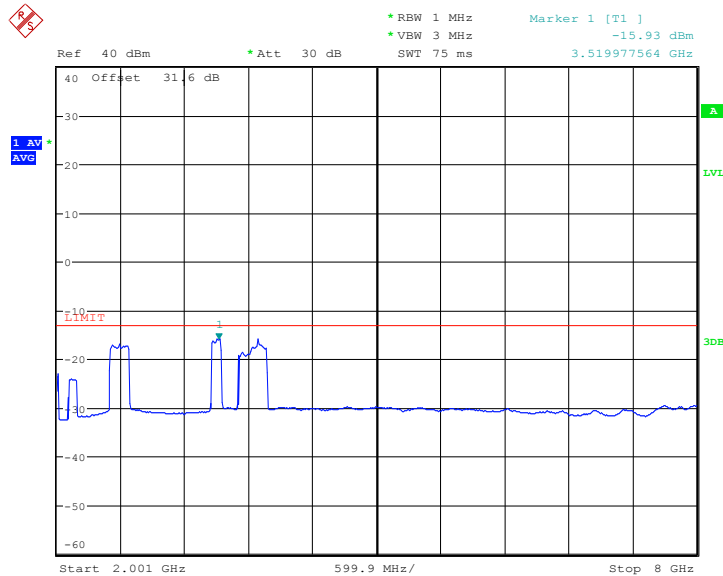
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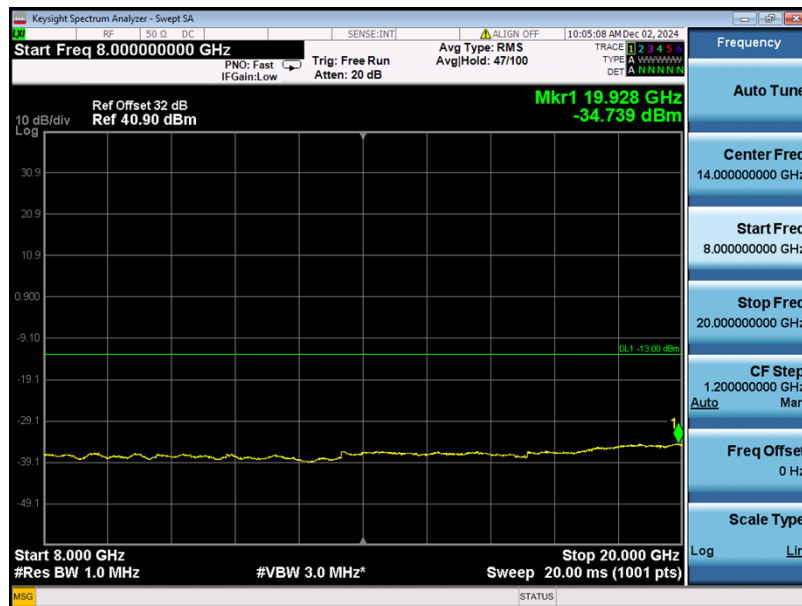
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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC



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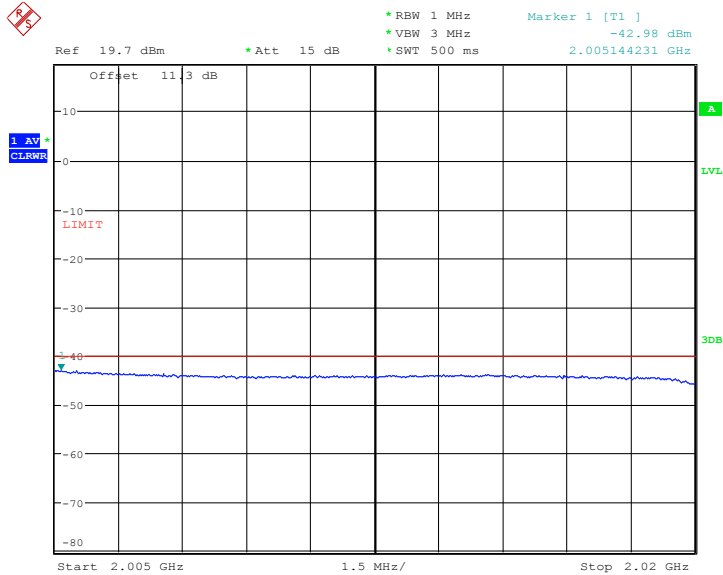
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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC



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6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	12.1	0.00603	PASS
			TN	VH	15.5	0.00772	PASS
		100MHz AWGN	TN	VL	15.5	0.00772	PASS
			TN	VH	13.2	0.00658	PASS
		GSM	TN	VL	14.1	0.00702	PASS
			TN	VH	12.5	0.00623	PASS



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Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	VN	+50	12.8	0.00638	PASS
			VN	+40	9.6	0.00478	PASS
			VN	+30	14.0	0.00697	PASS
			VN	+20	15.7	0.00782	PASS
			VN	+10	12.7	0.00633	PASS
			VN	0	13.3	0.00663	PASS
			VN	-10	9.2	0.00458	PASS
			VN	-20	15.3	0.00762	PASS
			VN	-30	10.9	0.00543	PASS
	MCH	100MHz AWGN	VN	+50	12.0	0.00598	PASS
			VN	+40	11.6	0.00578	PASS
			VN	+30	13.0	0.00648	PASS
			VN	+20	10.1	0.00503	PASS
			VN	+10	15.5	0.00772	PASS
			VN	0	13.4	0.00667	PASS
			VN	-10	12.1	0.00603	PASS
			VN	-20	9.5	0.00473	PASS
			VN	-30	11.9	0.00593	PASS
	MCH	GSM	VN	+50	11.4	0.00568	PASS
			VN	+40	10.1	0.00503	PASS
			VN	+30	10.1	0.00503	PASS
			VN	+20	10.0	0.00498	PASS
			VN	+10	15.3	0.00762	PASS
			VN	0	11.6	0.00578	PASS
			VN	-10	13.2	0.00658	PASS
			VN	-20	9.5	0.00473	PASS
			VN	-30	15.3	0.00762	PASS



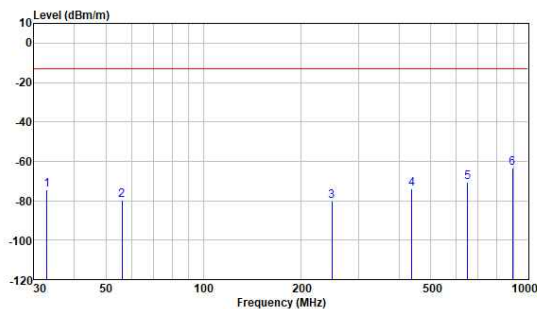
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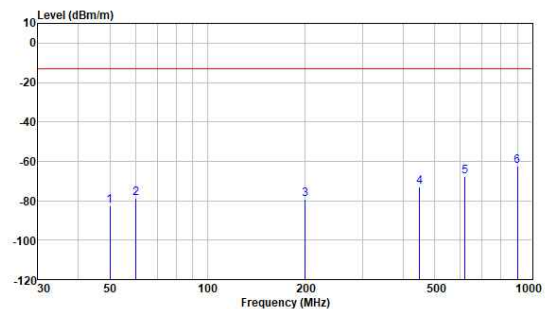
7 Radiated Spurious emissions

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz

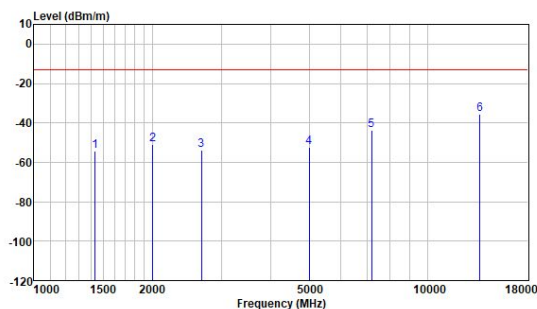


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	32.86	-77.72	3.11	-74.61	-13.00	-61.61	HORIZONTAL
2	56.00	-77.60	-2.12	-79.72	-13.00	-66.72	HORIZONTAL
3	248.55	-74.56	-5.56	-80.12	-13.00	-67.12	HORIZONTAL
4	437.12	-74.12	0.22	-73.90	-13.00	-60.90	HORIZONTAL
5	649.66	-74.27	3.79	-70.48	-13.00	-57.48	HORIZONTAL
6	893.86	-72.58	9.15	-63.43	-13.00	-50.43	HORIZONTAL

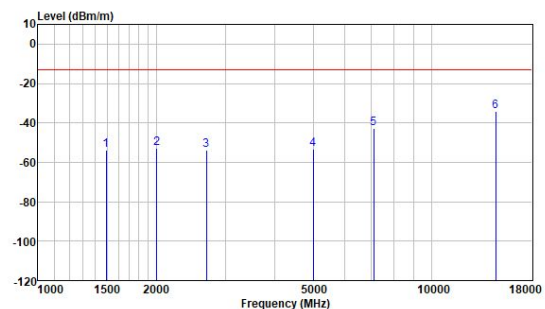


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	50.06	-75.88	-6.81	-82.69	-13.00	-69.69	VERTICAL
2	60.07	-76.81	-2.10	-78.91	-13.00	-65.91	VERTICAL
3	199.99	-74.36	-5.01	-79.37	-13.00	-66.37	VERTICAL
4	449.56	-74.48	1.48	-73.00	-13.00	-60.00	VERTICAL
5	620.71	-72.24	4.39	-67.85	-13.00	-54.85	VERTICAL
6	900.15	-72.89	10.65	-62.24	-13.00	-49.24	VERTICAL

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	1431.05	-59.02	4.63	-54.39	-13.00	-41.39	HORIZONTAL
2	2001.08	-60.91	9.88	-51.03	-13.00	-38.03	HORIZONTAL
3	2664.02	-58.97	4.96	-54.01	-13.00	-41.01	HORIZONTAL
4	5002.50	-63.54	11.23	-52.31	-13.00	-39.31	HORIZONTAL
5	7200.31	-62.18	18.41	-43.77	-13.00	-30.77	HORIZONTAL
6	13559.88	-63.09	27.47	-35.62	-13.00	-22.62	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1490.14	-60.53	6.79	-53.74	-13.00	-40.74	VERTICAL
2	2001.08	-61.58	8.61	-52.97	-13.00	-39.97	VERTICAL
3	2679.46	-58.86	5.17	-53.69	-13.00	-40.69	VERTICAL
4	5002.50	-63.38	10.04	-53.34	-13.00	-40.34	VERTICAL
5	7117.54	-62.44	19.63	-42.81	-13.00	-29.81	VERTICAL
6	14533.91	-61.38	27.40	-33.98	-13.00	-20.98	VERTICAL



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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 and above 18GHz 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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