

Appendix -

Test Data and Result for report

GZCR241100135102

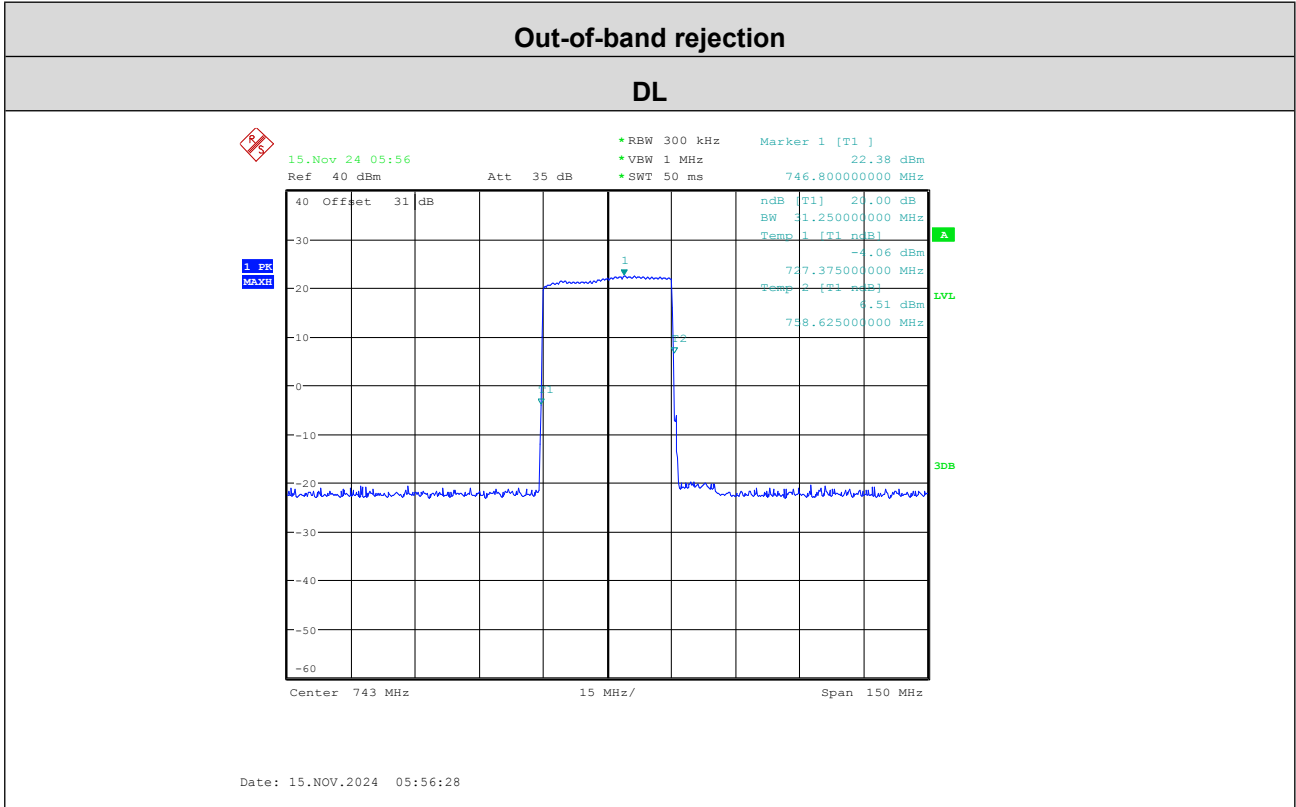
(For Lower & Upper 700MHz Band DL)



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1 Out-of-band rejection



Remark:

1. The peak of the frequency response f0 is 746.8MHz.
2. 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.
3. 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



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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 channel BW is 20MHz 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.

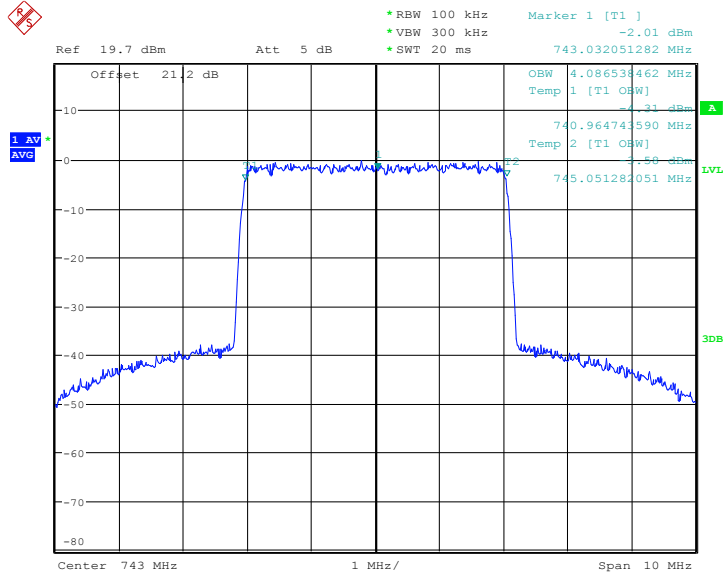


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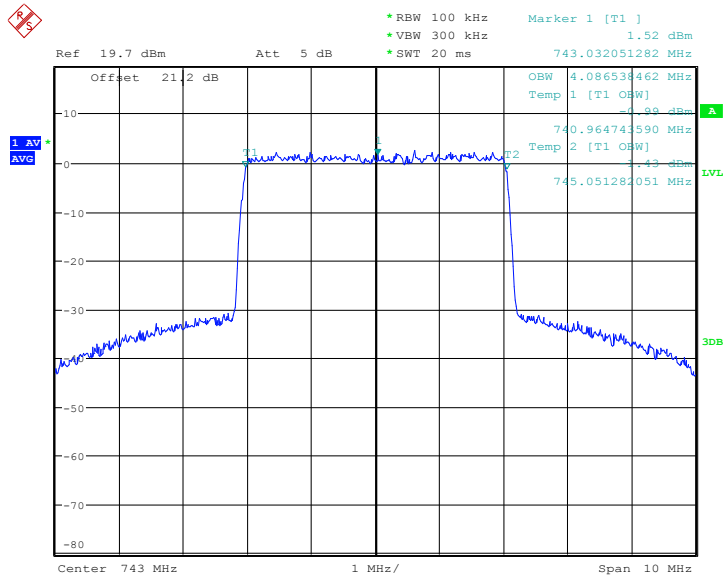
99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



Date: 19.NOV.2024 12:33:33

DL_4.1MHz AWGN_MCH_Input_3dB above AGC



Date: 19.NOV.2024 12:33:41

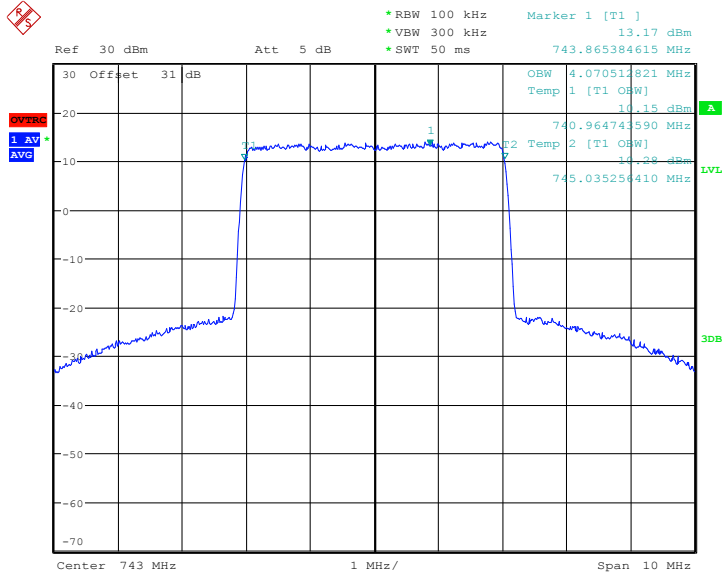


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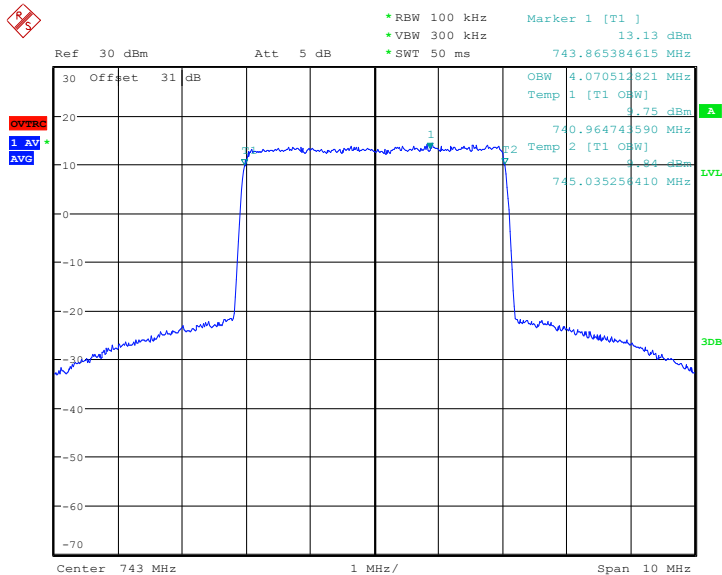
99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC



Date: 15.NOV.2024 06:09:18

DL_4.1MHz AWGN_MCH_Output_3dB above AGC



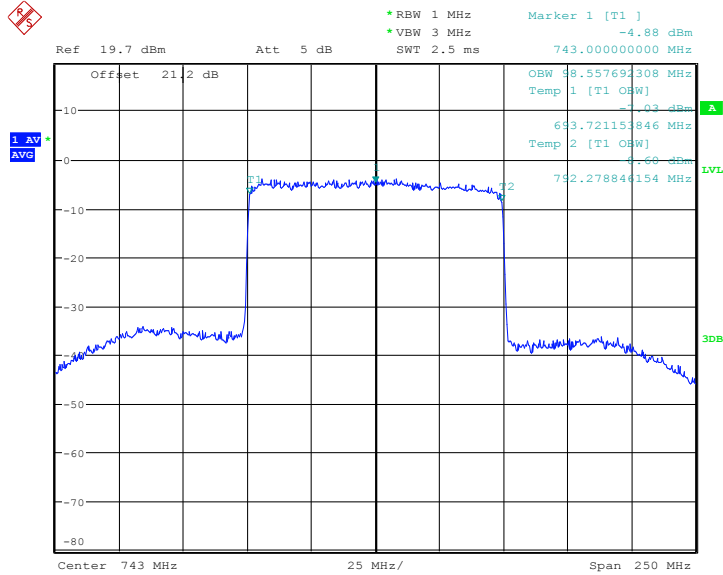
Date: 15.NOV.2024 06:09:36



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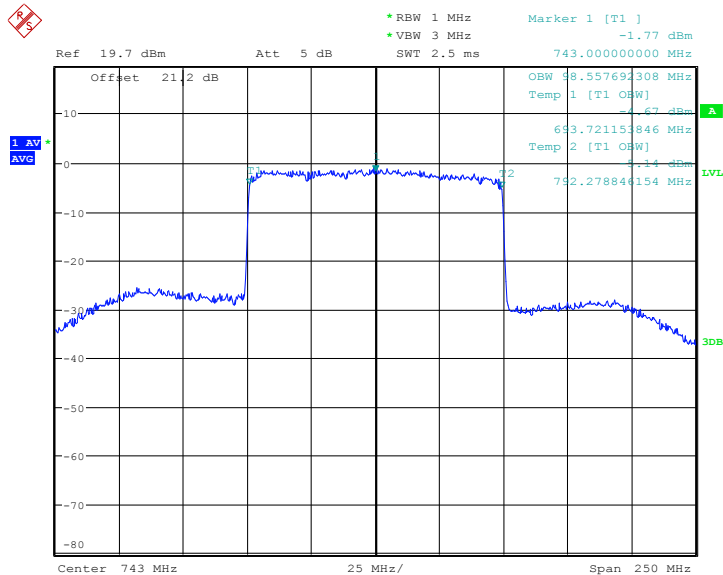
99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC



Date: 19.NOV.2024 12:27:21

DL_100MHz AWGN_MCH_Input_3dB above AGC



Date: 19.NOV.2024 12:27:45



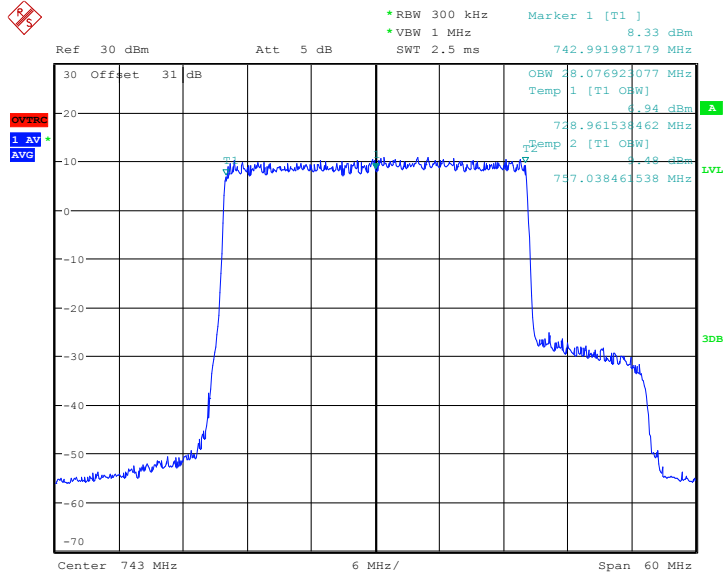
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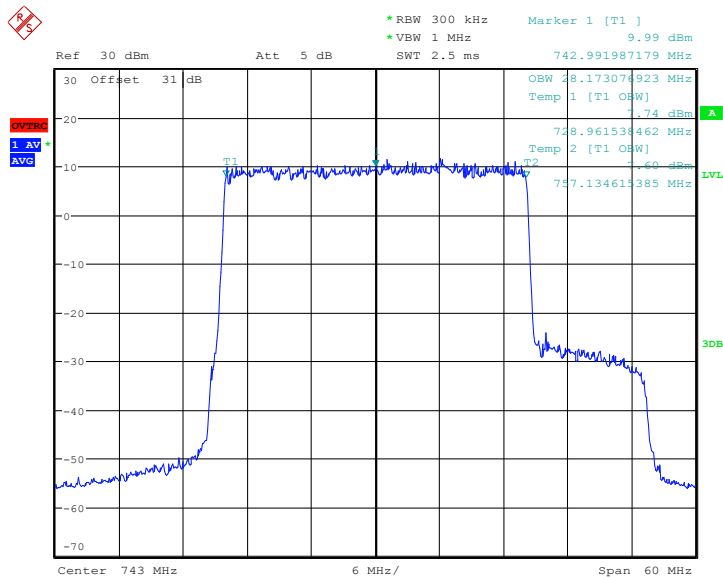
99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



Date: 15.NOV.2024 06:15:31

DL_100MHz AWGN_MCH_Output_3dB above AGC



Date: 15.NOV.2024 06:16:19



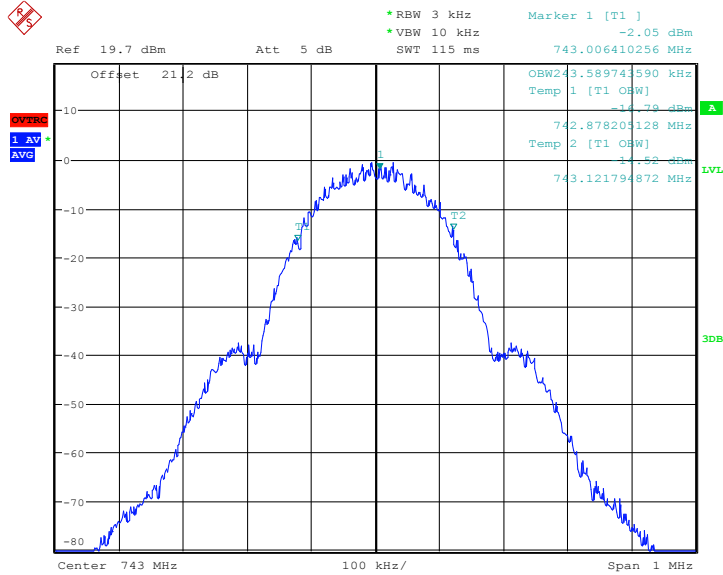
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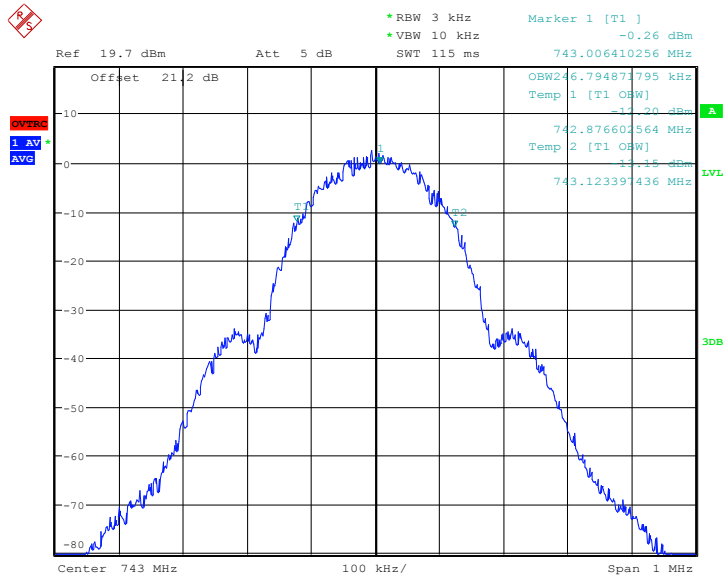
99% OBW

DL_GSM_MCH_Input_Pre-AGC



Date: 19.NOV.2024 12:34:35

DL_GSM_MCH_Input_3dB above AGC



Date: 19.NOV.2024 12:34:44

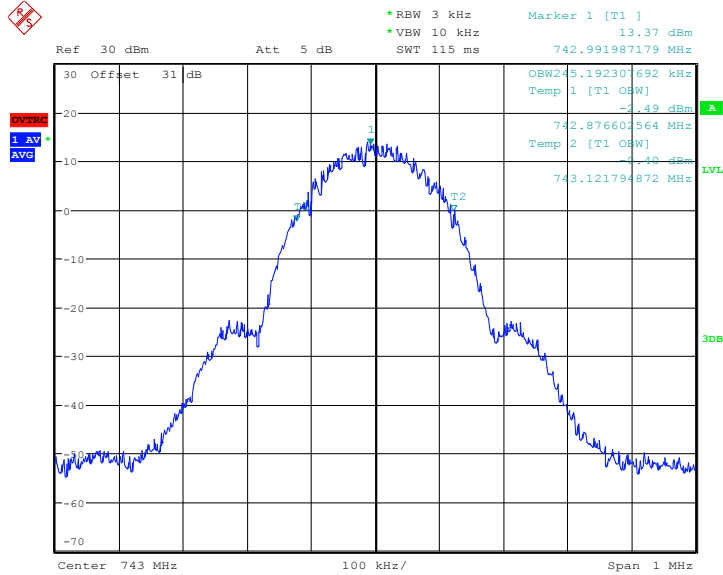


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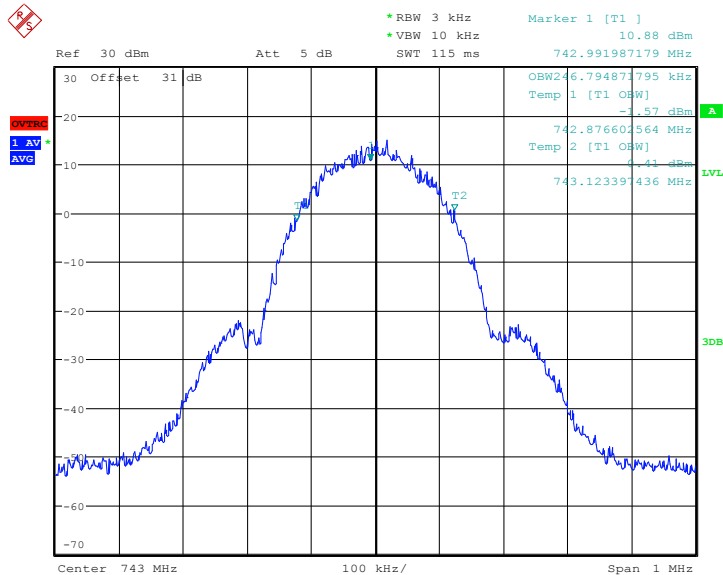
99% OBW

DL_GSM_MCH_Output_Pre-AGC



Date: 15.NOV.2024 06:10:34

DL_GSM_MCH_Output_3dB above AGC



Date: 15.NOV.2024 06:11:14



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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)	ERP (dBm)	ERP (W)	Gain (dB)
DL	746.8	4.1MHz AWGN	Pre-AGC	15	30.25	33.10	2.05	15.25
			3dB above AGC	18	30.48	33.33	2.16	/
		100MHz AWGN	Pre-AGC	15	29.13	31.98	1.56	14.13
			3dB above AGC	18	29.63	32.48	1.78	/
		GSM	Pre-AGC	15	31.09	33.94	2.48	16.09
			3dB above AGC	18	31.31	34.16	2.61	/

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 5dBi declared by the manufacturer.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	ERP (dBm/MHz)	ERP (W/MHz)	Verdict
DL	746.8	4.1MHz AWGN	Pre-AGC	24.25	26.98	0.50	PASS
			3dB above AGC	24.43	27.21	0.53	PASS
		100MHz AWGN	Pre-AGC	16.65	19.50	0.09	PASS
			3dB above AGC	16.77	19.62	0.10	PASS
		GSM	Pre-AGC	31.09	33.94	2.48	PASS
			3dB above AGC	31.31	34.16	2.61	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 5dBi declared by the manufacturer.
3. The output power is limited to an EIRP 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
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-27.88	≤-13	PASS
				3dB above AGC	-28.39		PASS
			Two signals input	Pre-AGC	-28.21		PASS
	3dB above AGC			-28.52	PASS		
	HCH		One signal input	Pre-AGC	-20.92		PASS
				3dB above AGC	-20.90		PASS
Two signals input		Pre-AGC	-21.96	PASS			
	3dB above AGC	-20.66	PASS				
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-29.89	≤-13	PASS
				3dB above AGC	-30.80		PASS
	HCH		One signal input	Pre-AGC	-23.44		PASS
				3dB above AGC	-23.58		PASS
DL	LCH	GSM	One signal input	Pre-AGC	-24.37	≤-13	PASS
				3dB above AGC	-23.63		PASS
			Two signals input	Pre-AGC	-26.20		PASS
	3dB above AGC			-26.22	PASS		
	HCH		One signal input	Pre-AGC	-16.99		PASS
				3dB above AGC	-16.90		PASS
Two signals input		Pre-AGC	-17.59	PASS			
	3dB above AGC	-17.80	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,

$$P = 30\text{dBm} = 1\text{W}$$

$$\text{the limit} = 30\text{dBm} - [43 + 10 \log_{10} (1\text{W})] \text{dB} = -13\text{dBm}$$

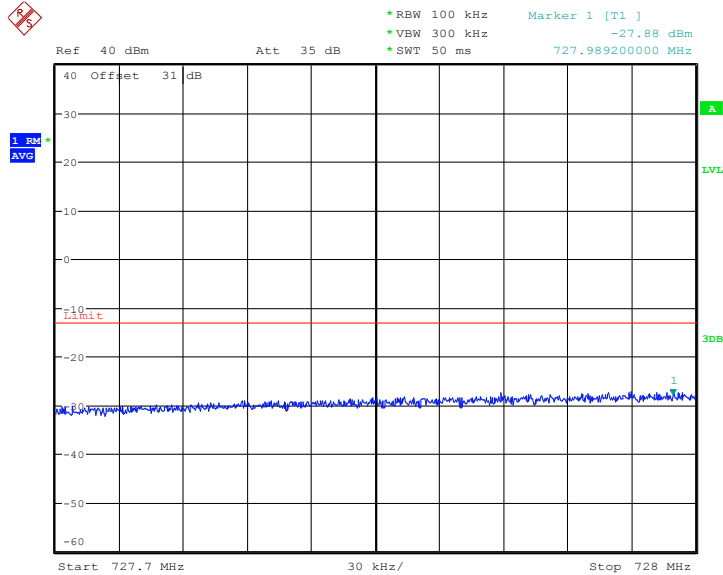


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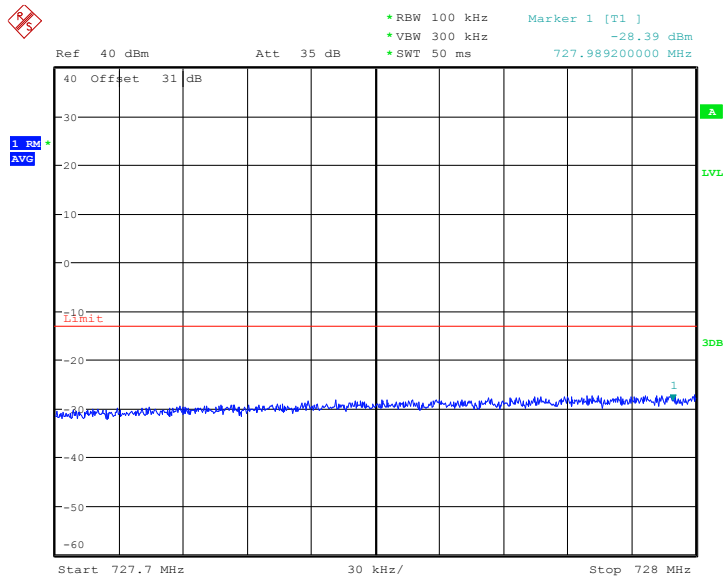
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



Date: 8.FEB.2003 01:33:05

DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



Date: 8.FEB.2003 01:33:14



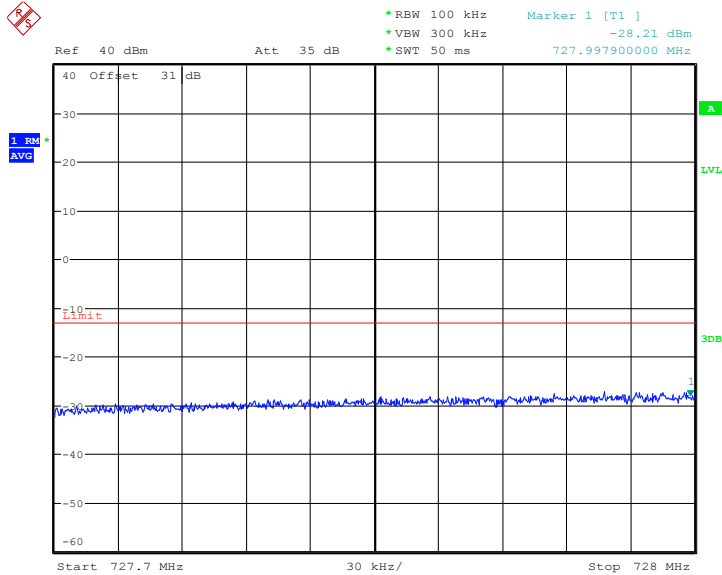
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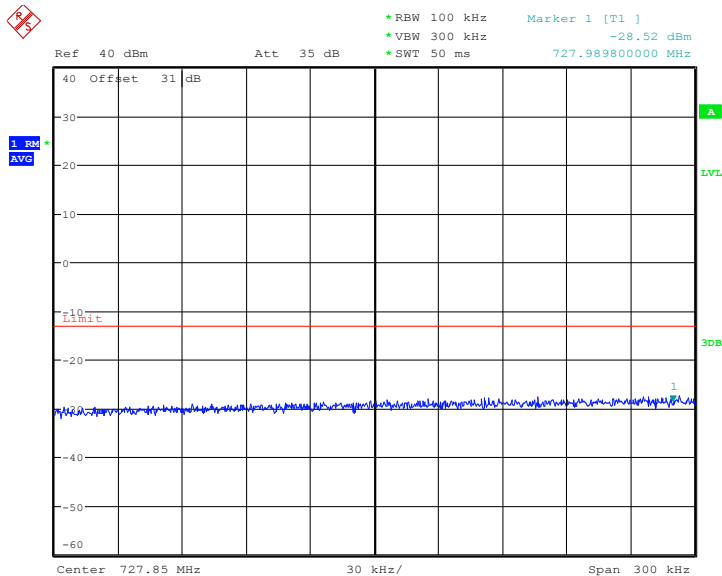
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



Date: 8.FEB.2003 01:34:57

DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC



Date: 8.FEB.2003 01:35:10



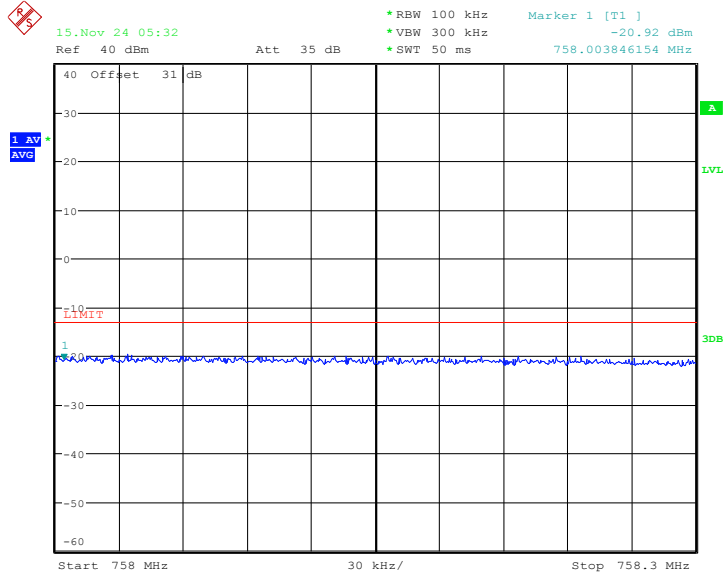
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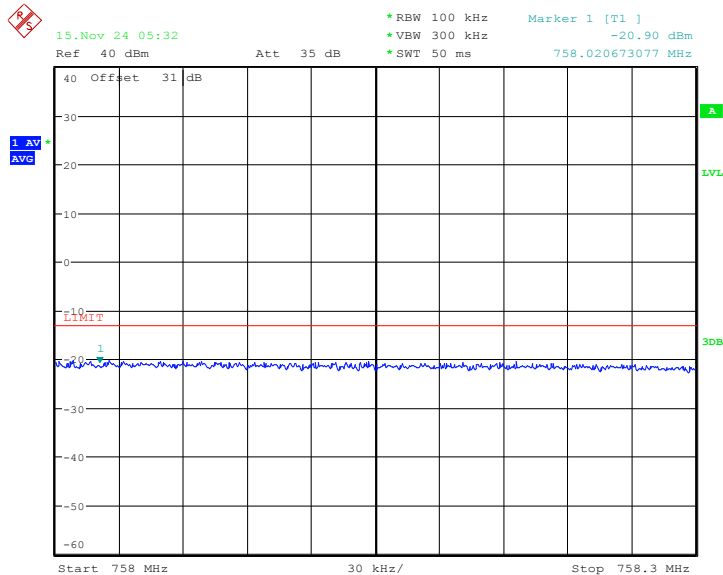
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 15.NOV.2024 05:32:17

DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



Date: 15.NOV.2024 05:32:09

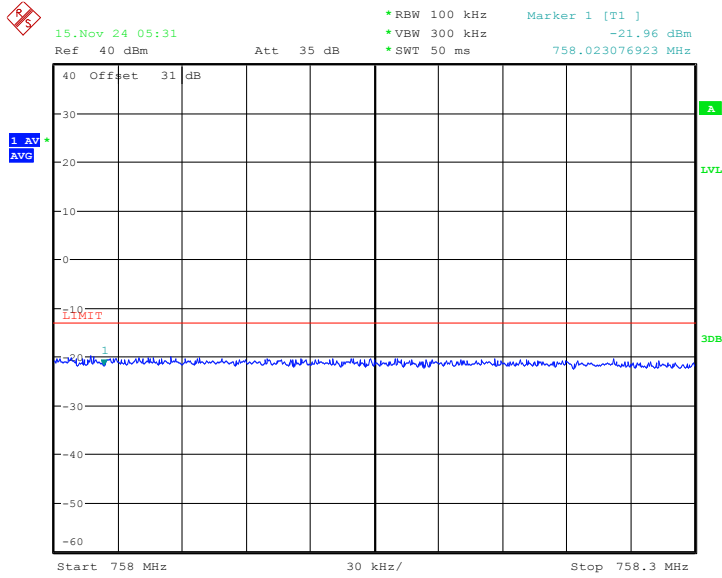


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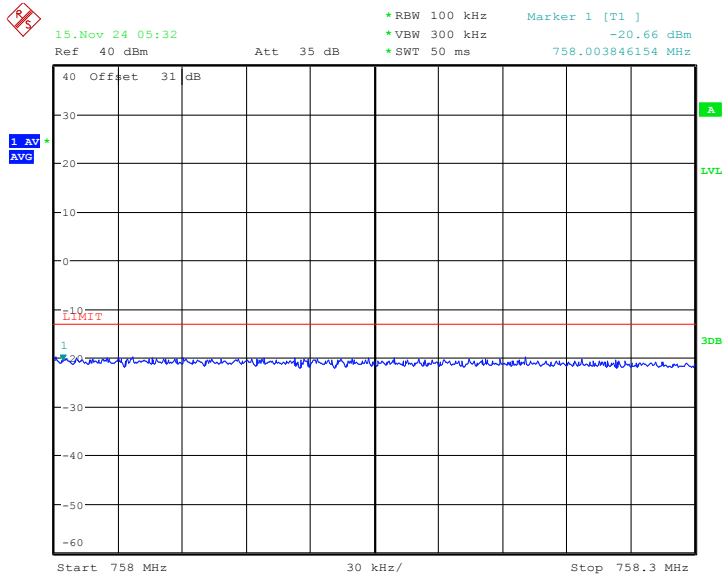
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



Date: 15.NOV.2024 05:31:17

DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



Date: 15.NOV.2024 05:32:53

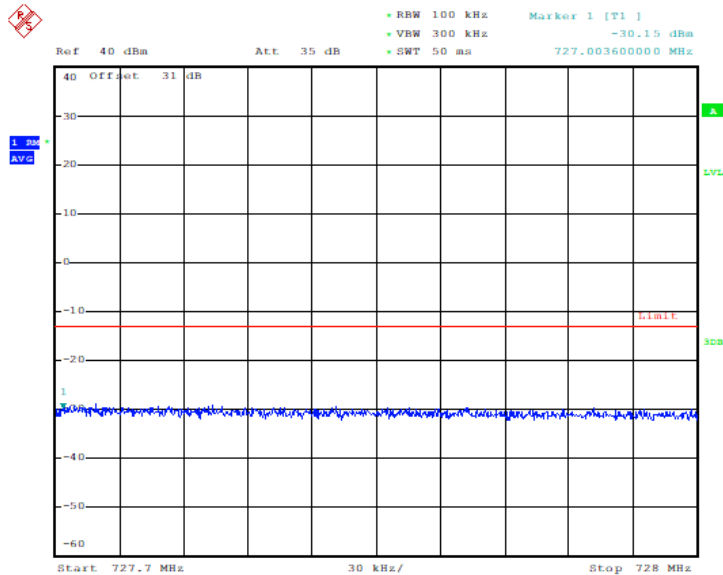


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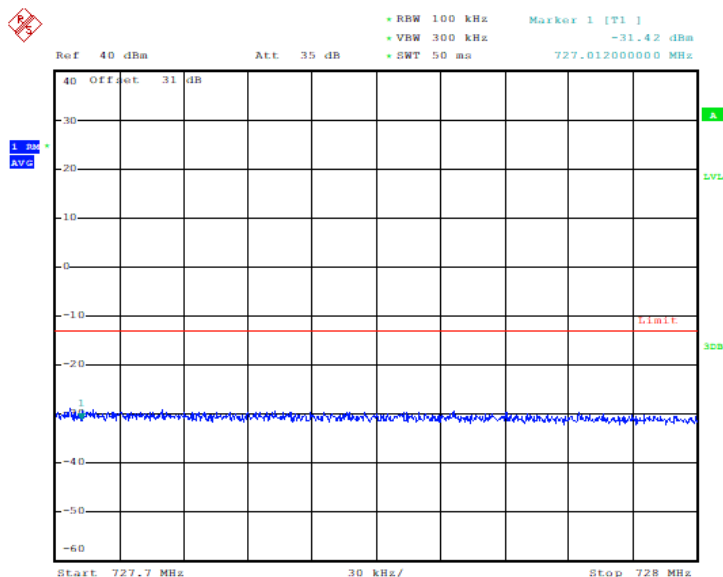
Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



Date: 8.FEB.2003 01:38:23

DL_100MHz AWGN_LCH_a single test signal_3dB above AGC



Date: 8.FEB.2003 01:38:29

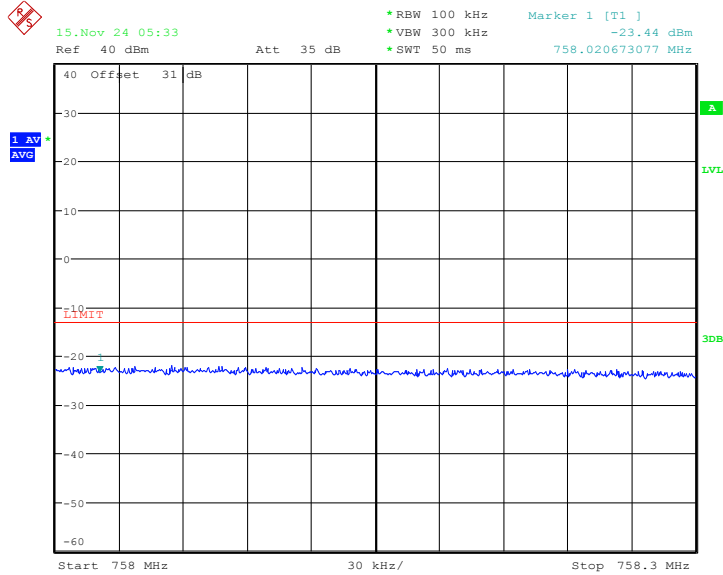


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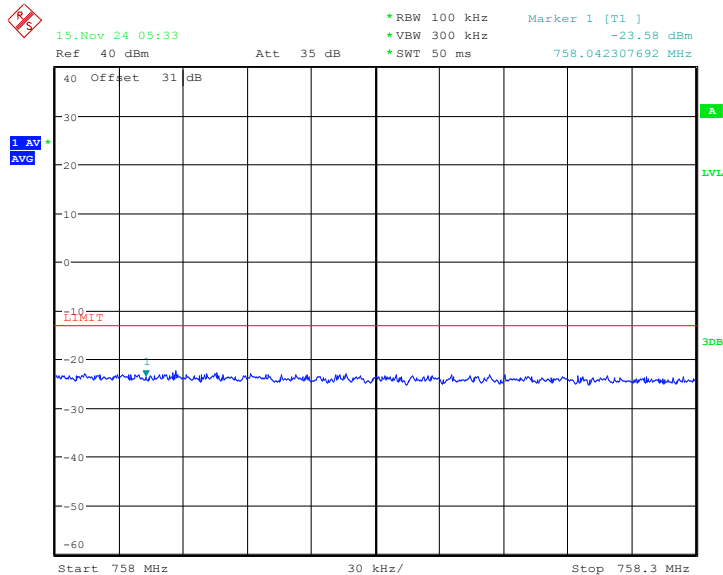
Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 15.NOV.2024 05:33:25

DL_100MHz AWGN_HCH_a single test signal_3dB above AGC



Date: 15.NOV.2024 05:33:34

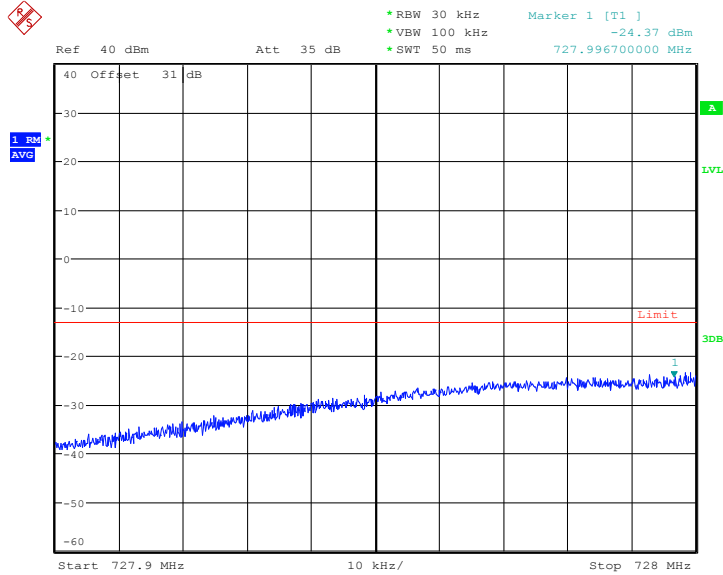


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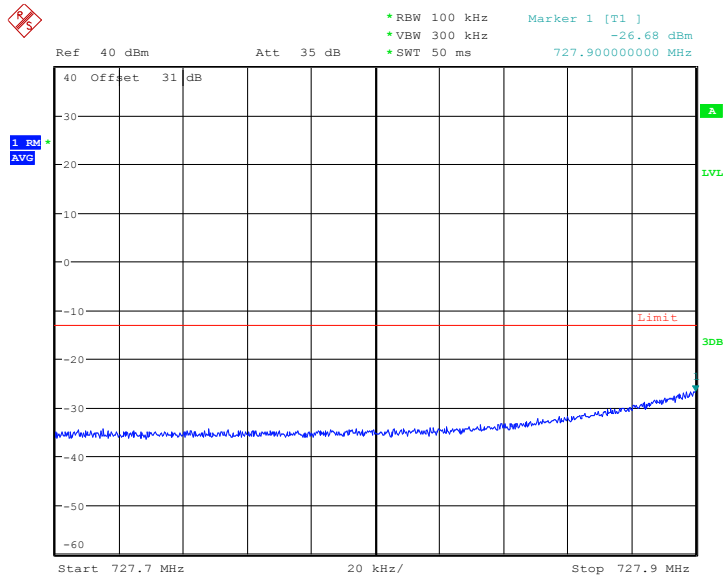
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Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



Date: 7.FEB.2003 07:08:49



Date: 7.FEB.2003 07:09:45



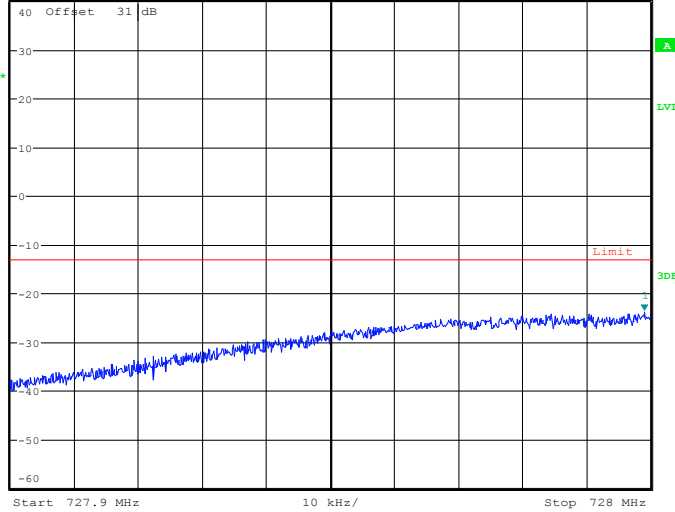
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DL_GSM_LCH_a single test signal_3dB above AGC



Ref 40 dBm Att 35 dB * RBW 30 kHz Marker 1 [T1] -23.63 dBm
 * VBW 100 kHz
 * SWT 50 ms 727.999000000 MHz

1 RBW
 AVG

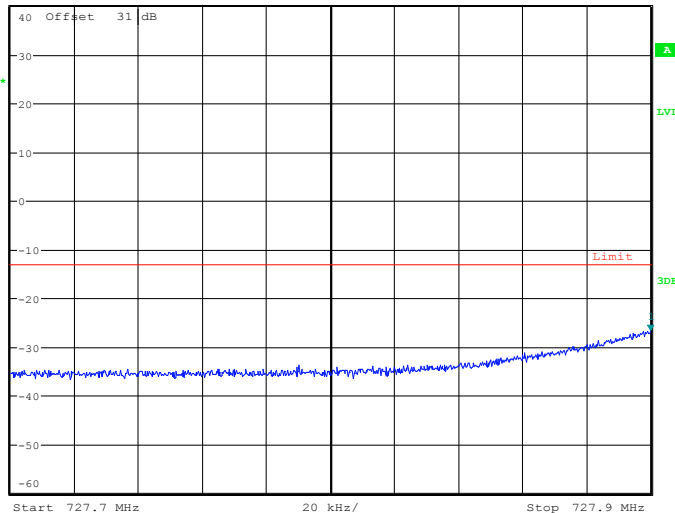


Date: 7.FEB.2003 07:10:39



Ref 40 dBm Att 35 dB * RBW 100 kHz Marker 1 [T1] -26.66 dBm
 * VBW 300 kHz
 * SWT 50 ms 727.900000000 MHz

1 RBW
 AVG



Date: 7.FEB.2003 07:10:04



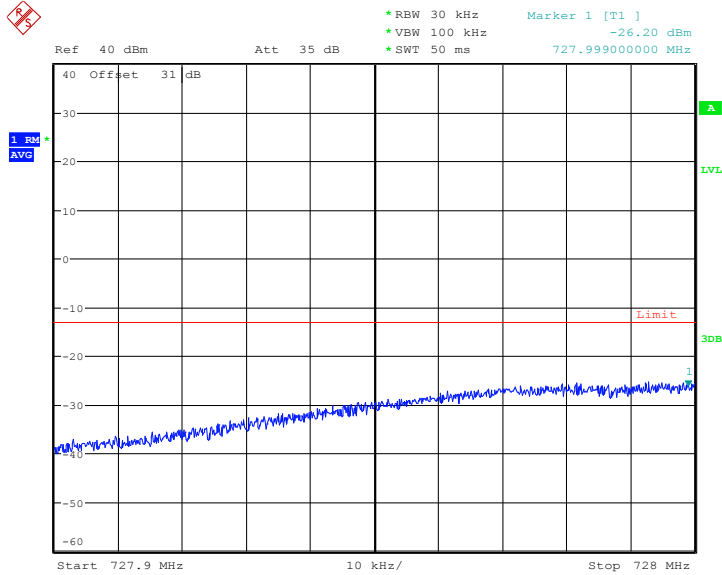
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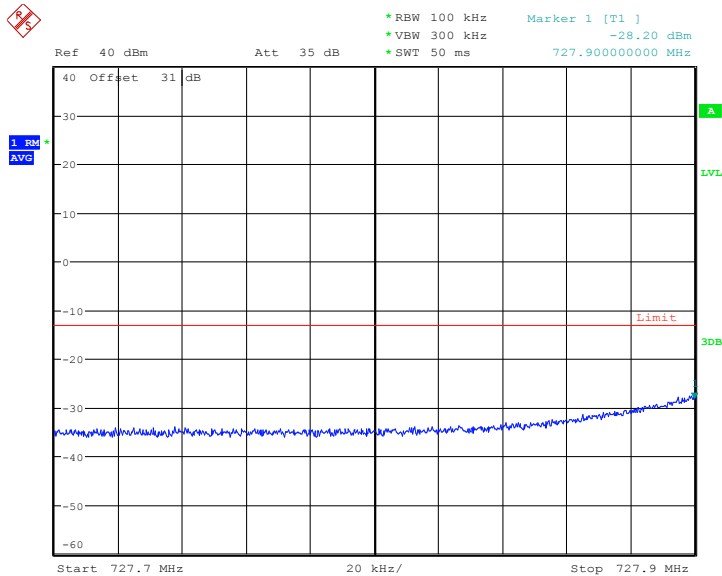
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC



Date: 7.FEB.2003 07:37:18



Date: 7.FEB.2003 07:37:55

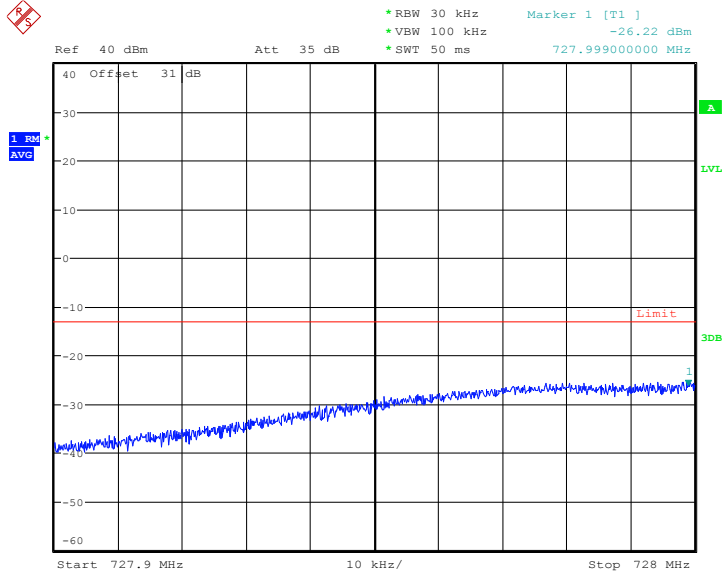


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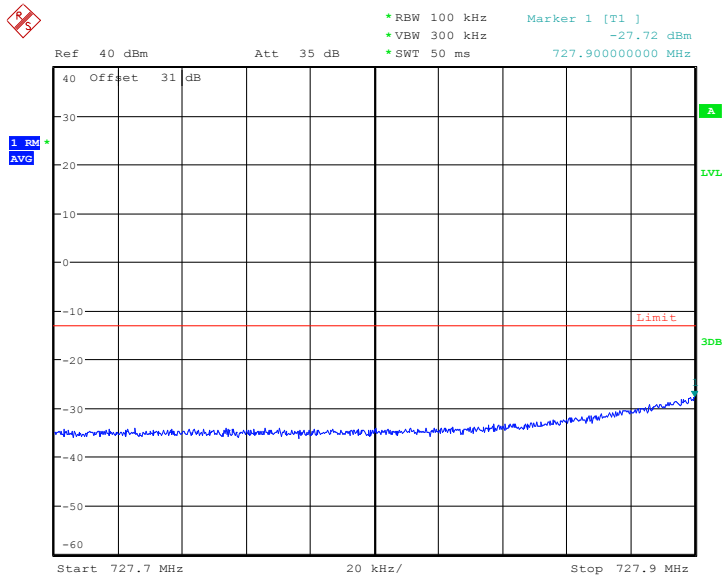
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DL_GSM_LCH_two adjacent test signals_3dB above AGC



Date: 7.FEB.2003 07:37:29



Date: 7.FEB.2003 07:38:04

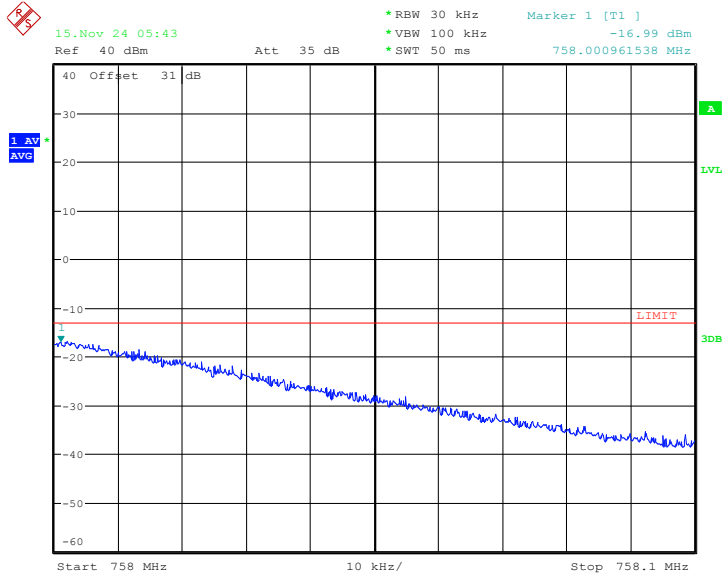


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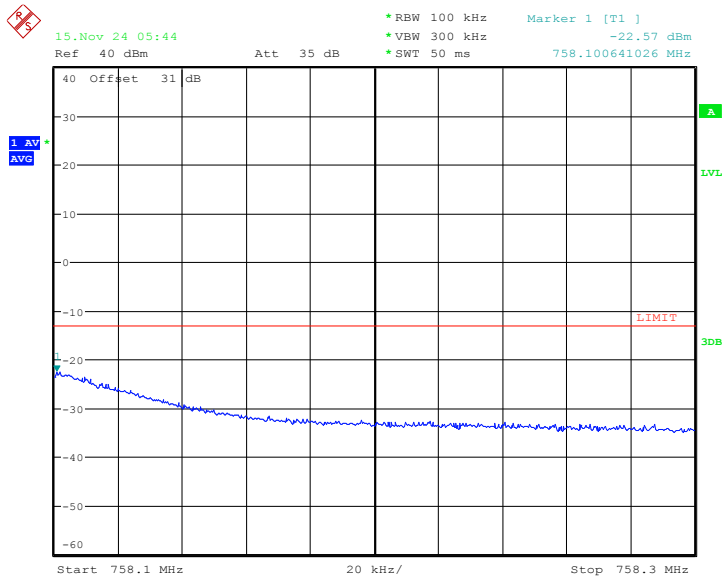
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



Date: 15.NOV.2024 05:43:42



Date: 15.NOV.2024 05:44:56

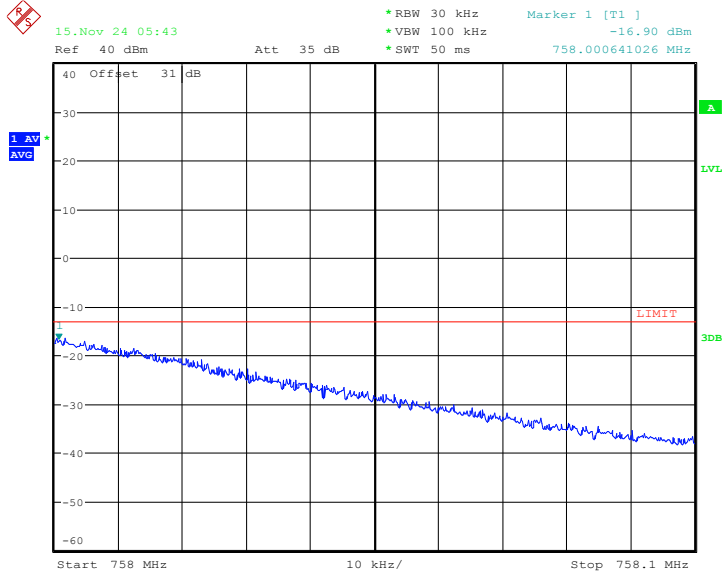


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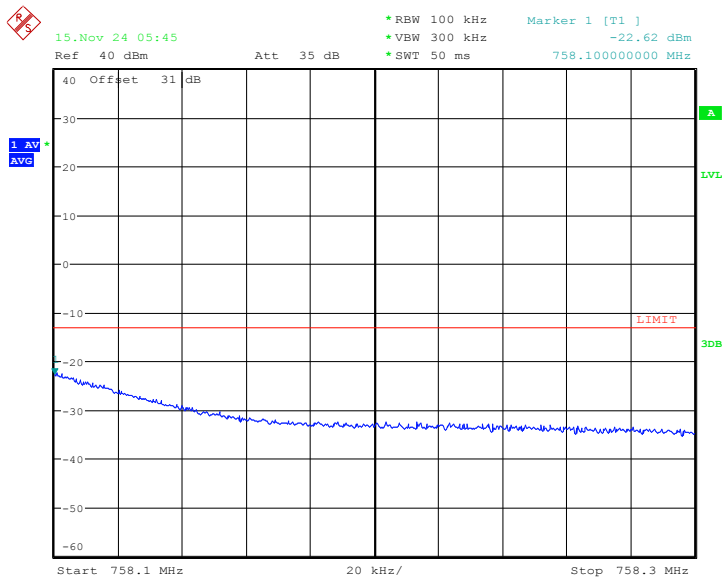
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DL_GSM_HCH_a single test signal_3dB above AGC



Date: 15.NOV.2024 05:43:48



Date: 15.NOV.2024 05:45:03

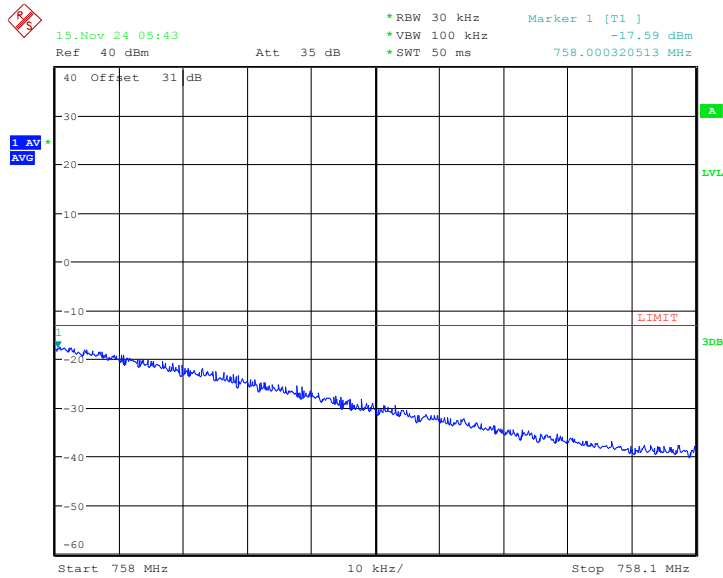


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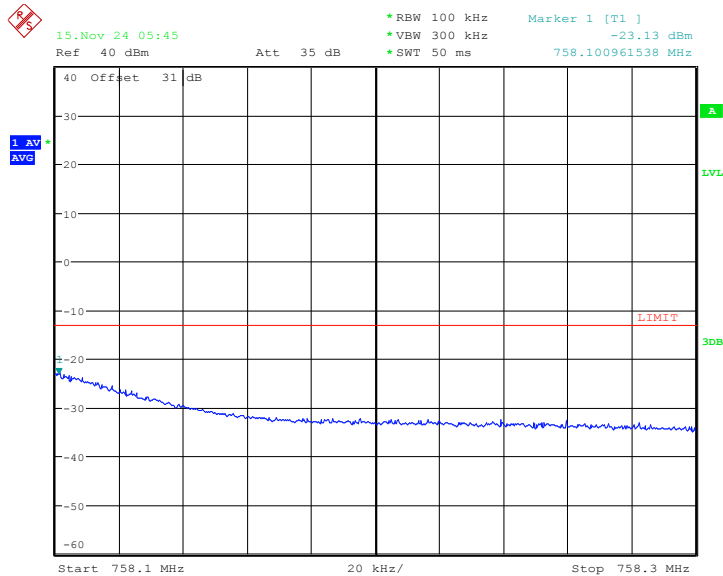
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



Date: 15.NOV.2024 05:43:59



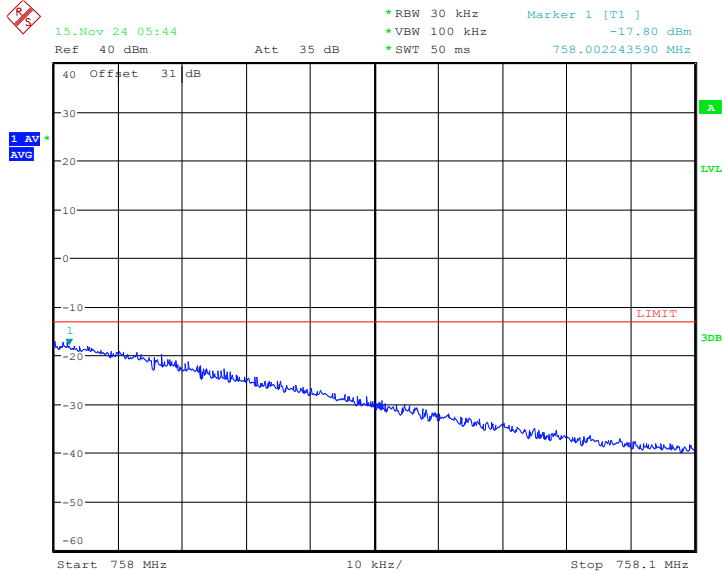
Date: 15.NOV.2024 05:45:15



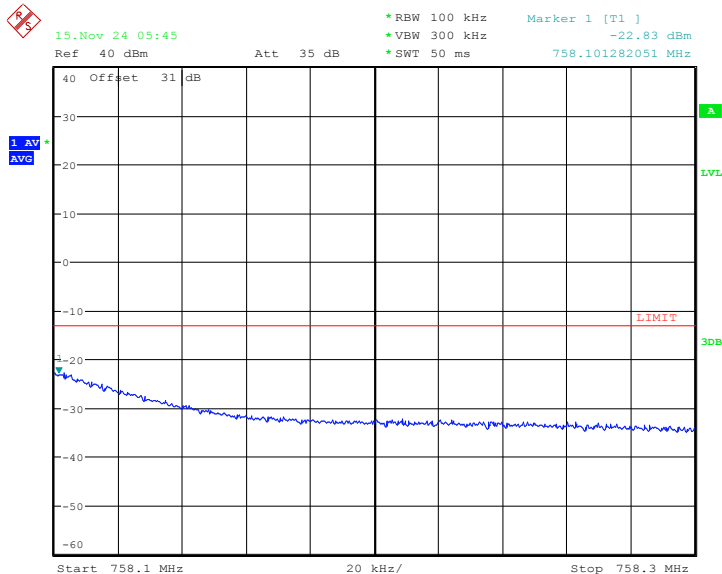
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DL_GSM_HCH_two adjacent test signals_3dB above AGC



Date: 15.NOV.2024 05:44:13



Date: 15.NOV.2024 05:45:24



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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	0.09-727.9	-28.44	≤-13	PASS
			763-775	-78.42	≤-46	PASS
			793-805	-77.83	≤-46	PASS
		HCH	758.1-1000	-23.34	≤-13	PASS
			1000-7580	-29.31	≤-13	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,
 $P = 30\text{dBm} = 1\text{W}$
 $\text{limit} = 30\text{dBm} - [43 + 10\log_{10}(1\text{W})] \text{dB} = -13\text{dBm}$
- On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10\log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations, here,
 $P = 30\text{dBm} = 1\text{W}$
 $\text{limit} = 30\text{dBm} - [76 + 10\log_{10}(1\text{W})] \text{dB} = -46\text{dBm}$
- 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.

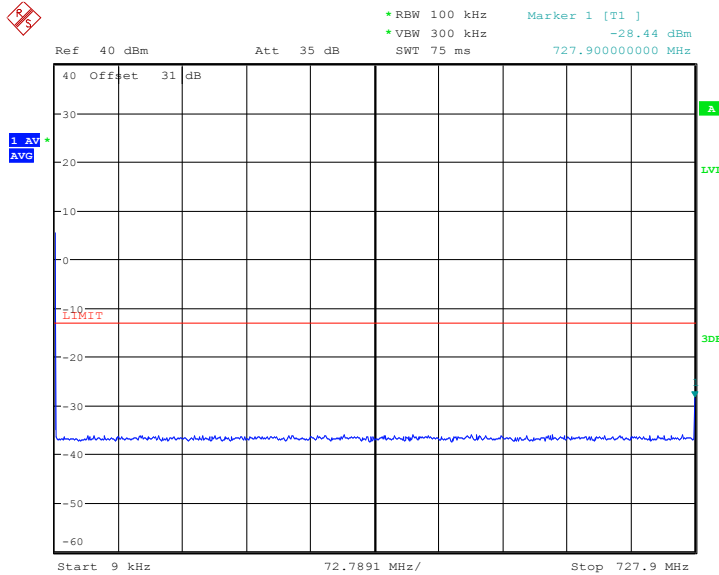


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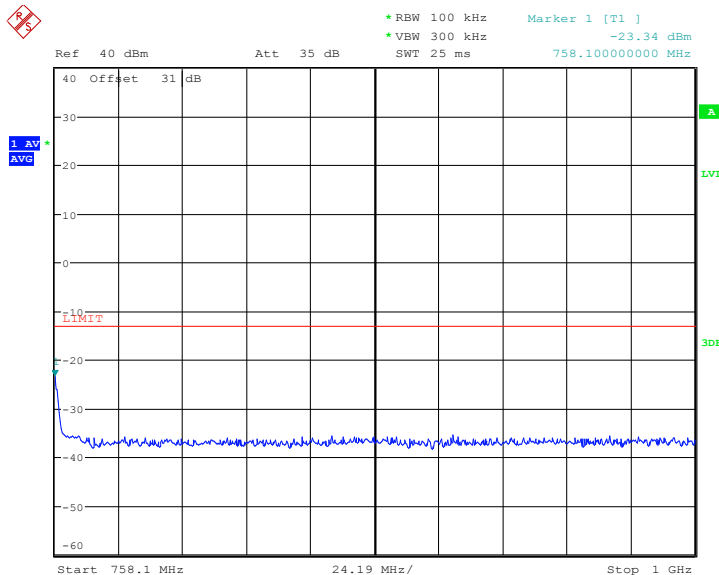
Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC



Date: 15.NOV.2024 05:24:45

DL_4.1MHz AWGN_HCH_Pre-AGC



Date: 15.NOV.2024 05:23:36



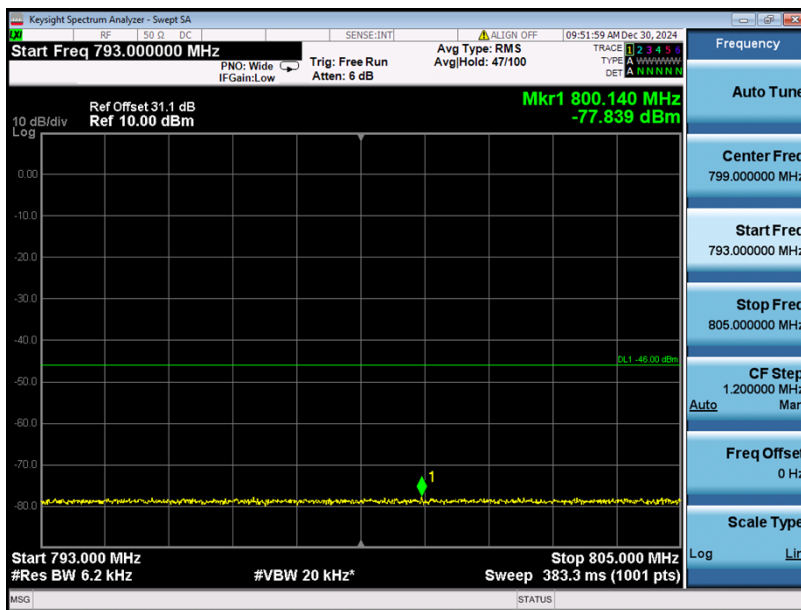
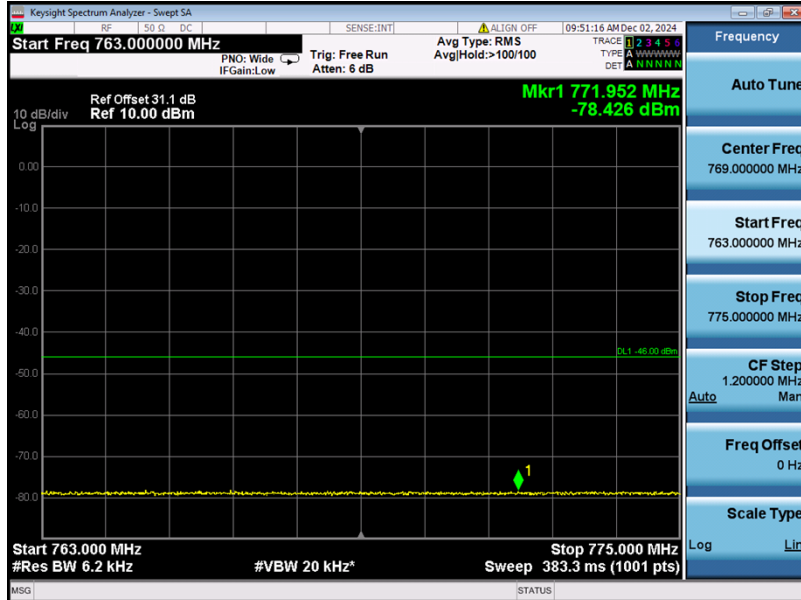
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Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC



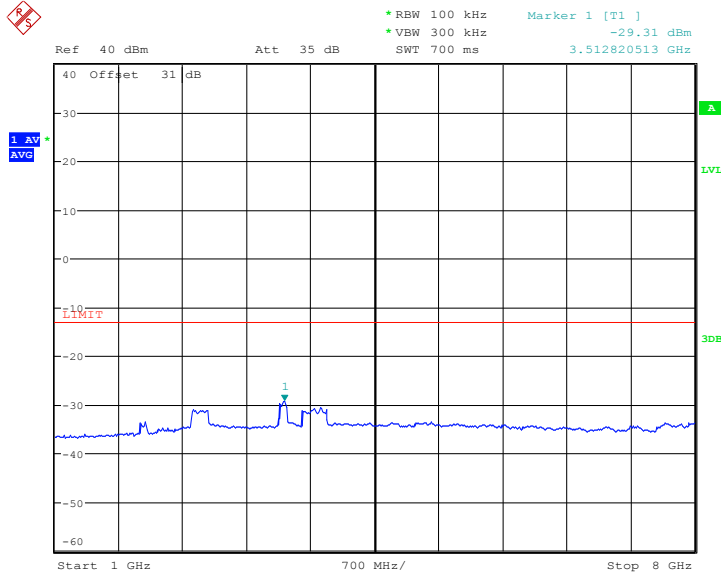
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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC



Date: 15.NOV.2024 05:23:57



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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	9.6	0.01291	PASS
			TN	VH	11.8	0.01587	PASS
		100MHz AWGN	TN	VL	8.1	0.01089	PASS
			TN	VH	14.5	0.01950	PASS
		GSM	TN	VL	10.3	0.01385	PASS
			TN	VH	12.9	0.01735	PASS



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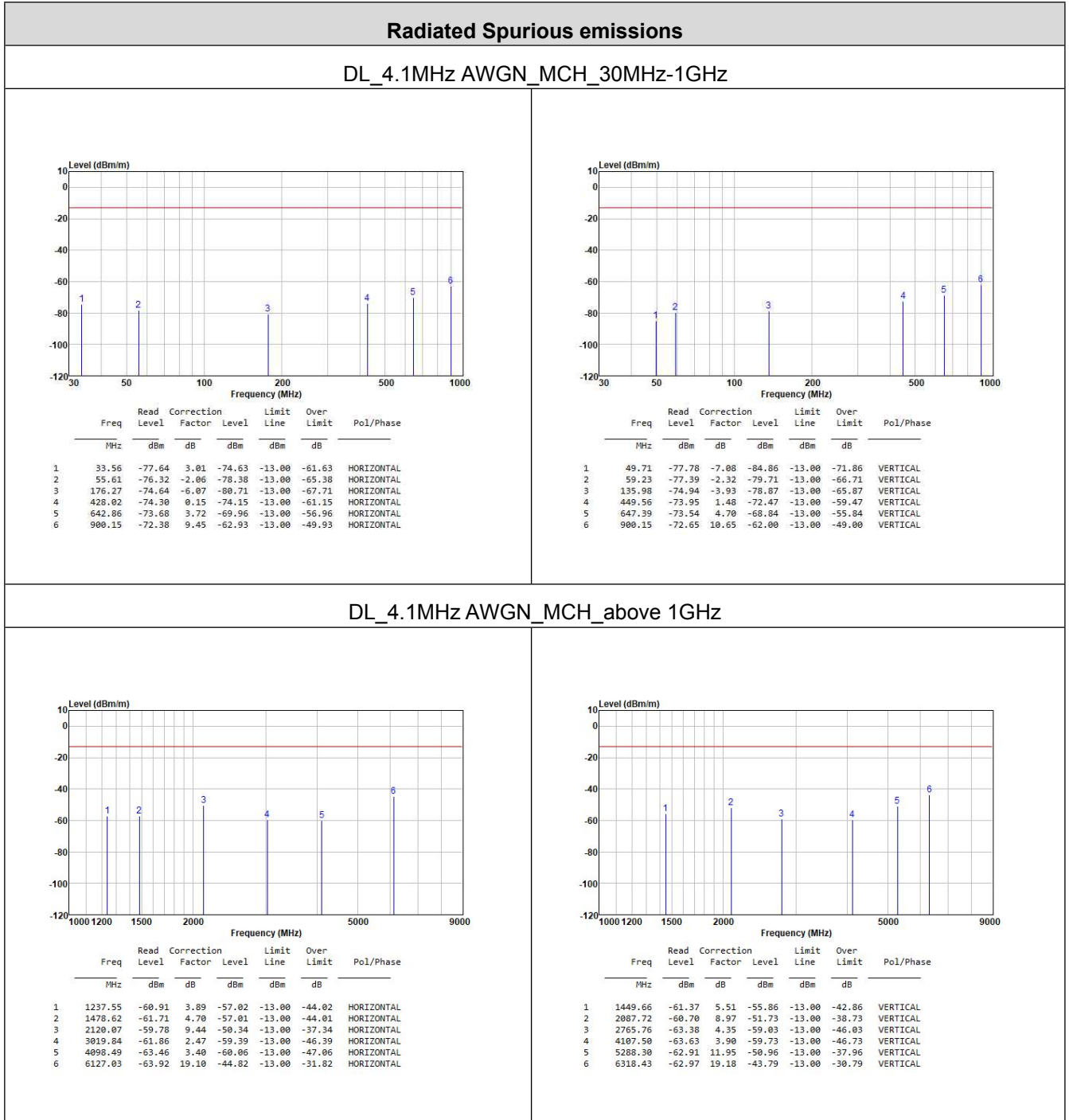
Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	VN	+50	13.3	0.01789	PASS
			VN	+40	8.8	0.01184	PASS
			VN	+30	14.7	0.01977	PASS
			VN	+20	7.4	0.00995	PASS
			VN	+10	9.7	0.01305	PASS
			VN	0	12.8	0.01722	PASS
			VN	-10	8.7	0.01170	PASS
			VN	-20	10.3	0.01385	PASS
			VN	-30	15.3	0.02058	PASS
	MCH	100MHz AWGN	VN	+50	9.4	0.01264	PASS
			VN	+40	11.7	0.01574	PASS
			VN	+30	14.6	0.01964	PASS
			VN	+20	13.7	0.01843	PASS
			VN	+10	13.1	0.01762	PASS
			VN	0	12.6	0.01695	PASS
			VN	-10	12.4	0.01668	PASS
			VN	-20	12.3	0.01654	PASS
			VN	-30	11.2	0.01506	PASS
	MCH	GSM	VN	+50	13.3	0.01789	PASS
			VN	+40	14.7	0.01977	PASS
			VN	+30	13.2	0.01775	PASS
			VN	+20	8.9	0.01197	PASS
			VN	+10	7.5	0.01009	PASS
			VN	0	15.1	0.02031	PASS
			VN	-10	13.2	0.01775	PASS
			VN	-20	13.2	0.01775	PASS
			VN	-30	15.0	0.02017	PASS



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7 Radiated Spurious emissions

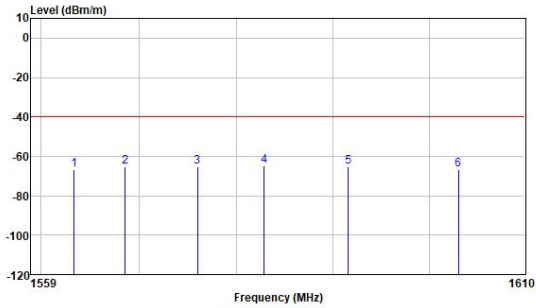


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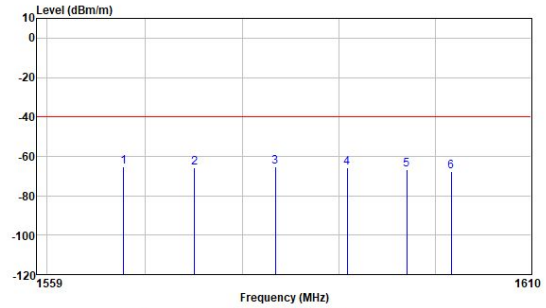
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_1559MHz-1610MHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1563.37	-71.67	5.07	-66.60	-40.00	-26.60	HORIZONTAL
2	1568.62	-70.50	5.10	-65.40	-40.00	-25.40	HORIZONTAL
3	1576.00	-70.50	5.12	-65.38	-40.00	-25.38	HORIZONTAL
4	1582.87	-70.06	5.17	-64.89	-40.00	-24.89	HORIZONTAL
5	1591.55	-70.60	5.20	-65.40	-40.00	-25.40	HORIZONTAL
6	1603.02	-71.83	5.24	-66.59	-40.00	-26.59	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1567.81	-70.84	5.41	-65.43	-40.00	-25.43	VERTICAL
2	1575.09	-71.21	5.31	-65.90	-40.00	-25.90	VERTICAL
3	1583.38	-70.62	5.13	-65.49	-40.00	-25.49	VERTICAL
4	1590.84	-70.76	4.97	-65.79	-40.00	-25.79	VERTICAL
5	1596.99	-71.59	4.89	-66.70	-40.00	-26.70	VERTICAL
6	1601.63	-72.69	4.82	-67.87	-40.00	-27.87	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 in this report.

--End of Appendix--



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