



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

Page: 1 of 31

FCC ID: PX8CFNG-MRU

Appendix -

Test Data and Result for report

GZCR241100135109

(For 3.45GHz Service Band DL)



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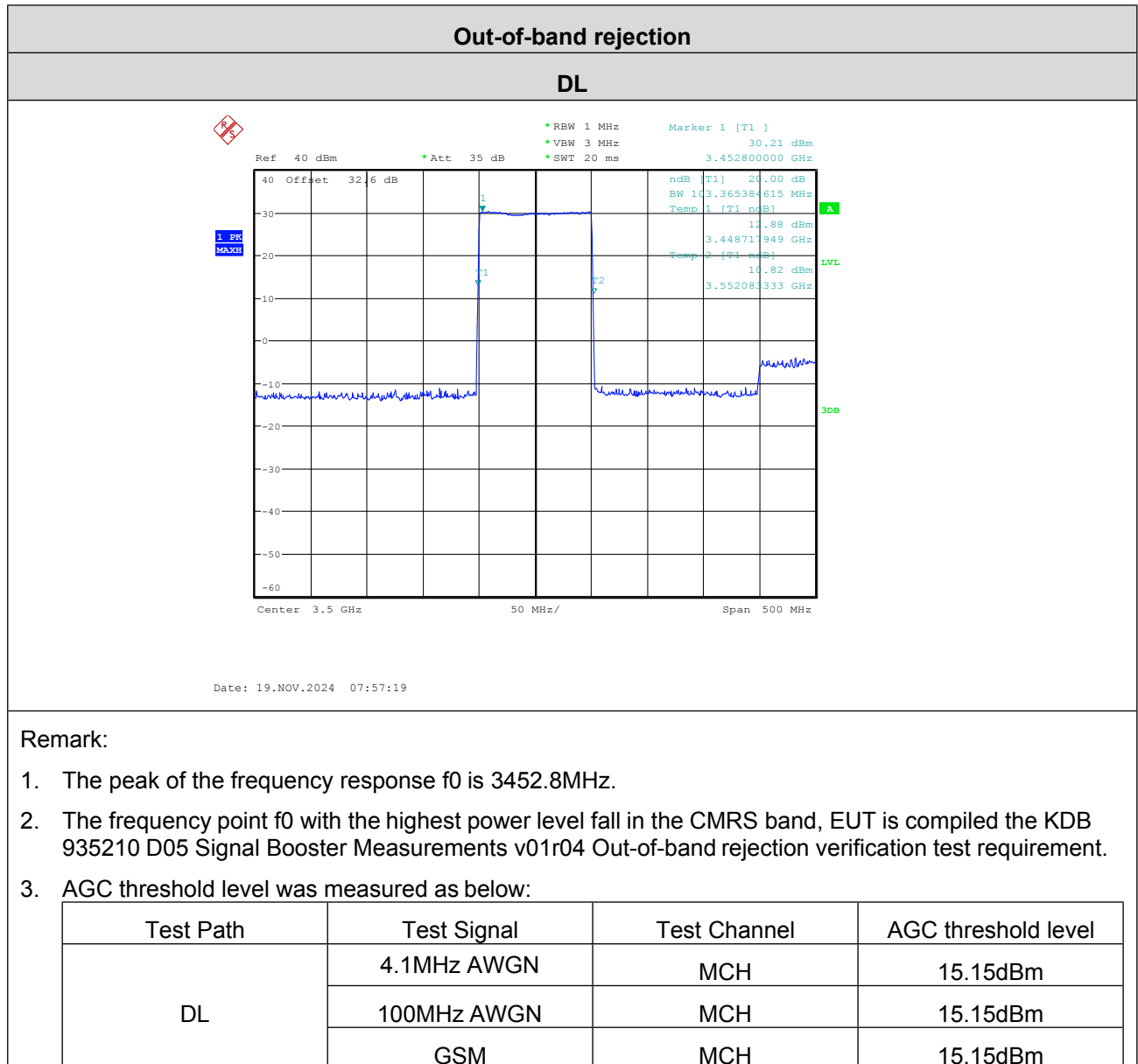
SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, EMC Laboratory

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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:

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.

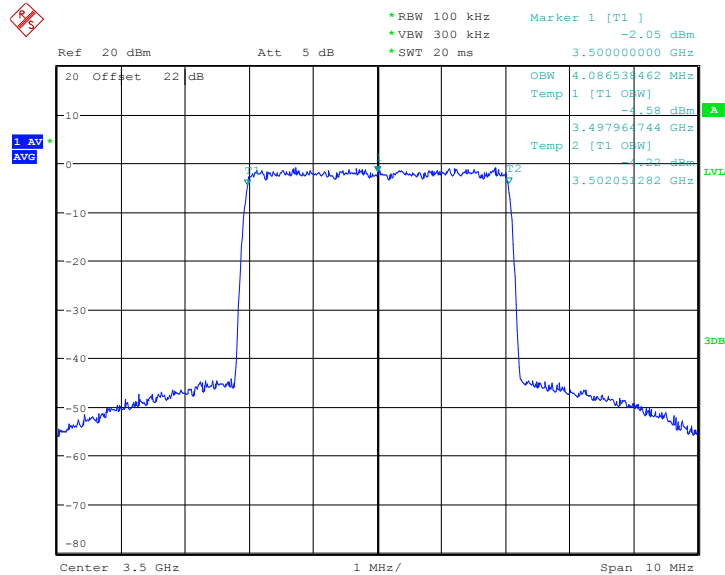


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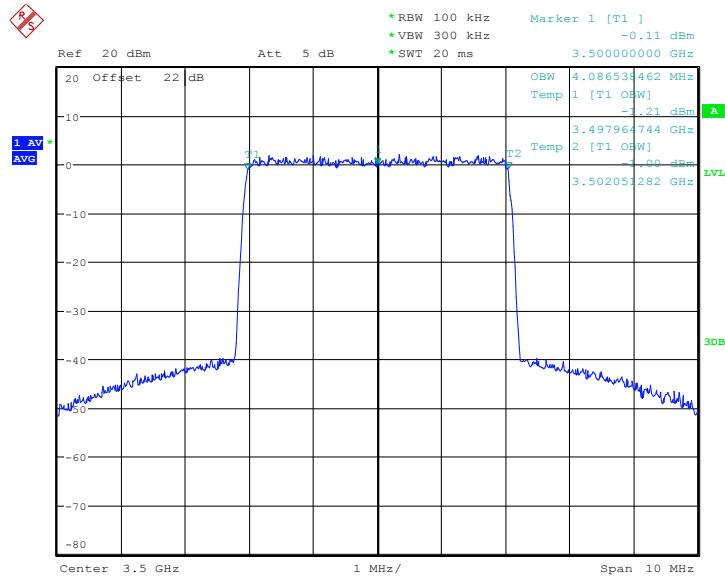
99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



Date: 19.NOV.2024 11:52:07

DL_4.1MHz AWGN_MCH_Input_3dB above AGC



Date: 19.NOV.2024 11:52:17



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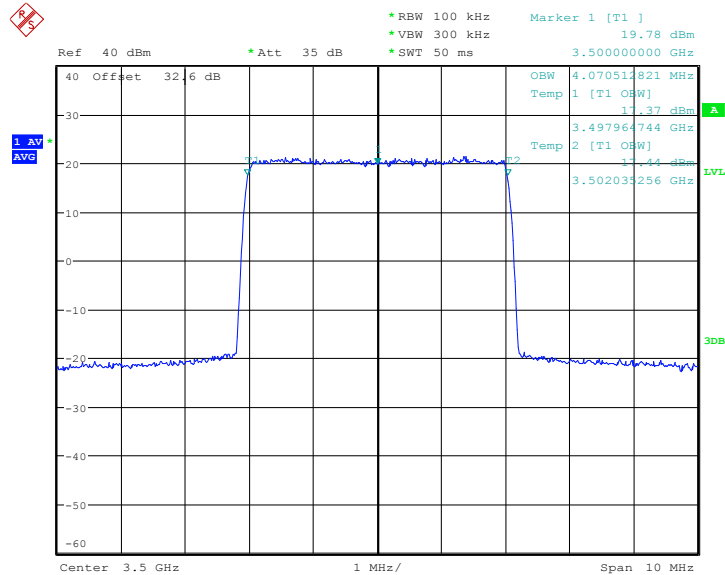
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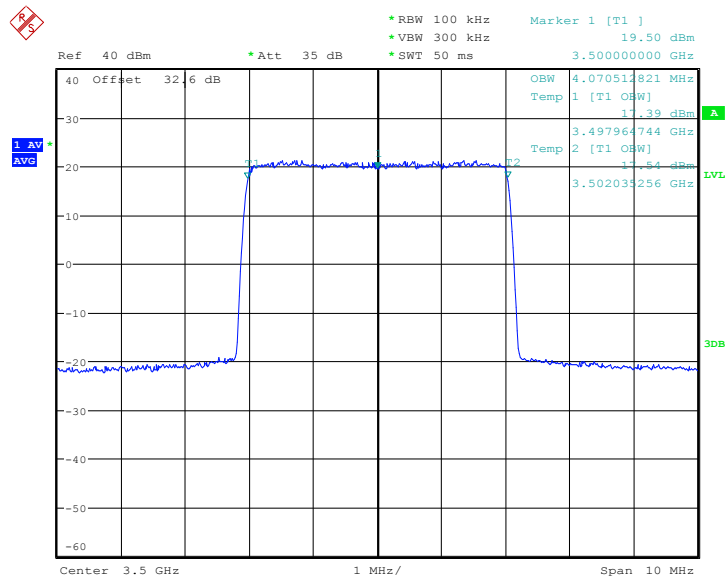
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DL_4.1MHz AWGN_MCH_Output_Pre-AGC



Date: 19.NOV.2024 08:08:34

DL_4.1MHz AWGN_MCH_Output_3dB above AGC



Date: 19.NOV.2024 08:08:45



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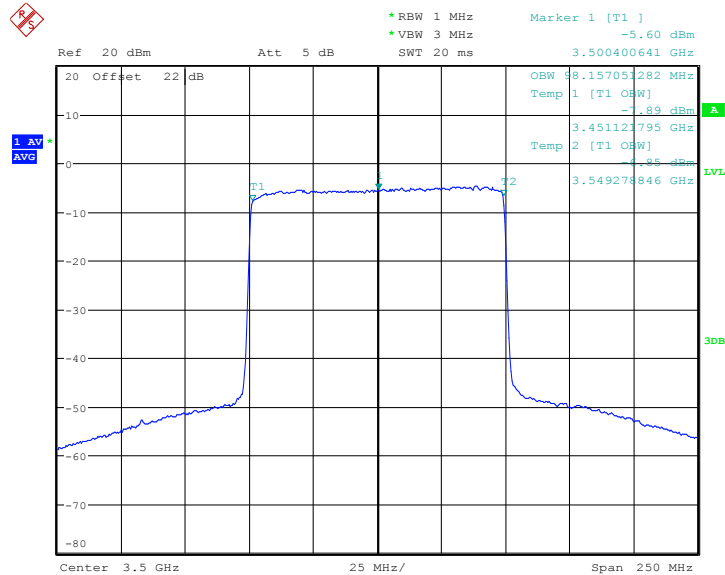
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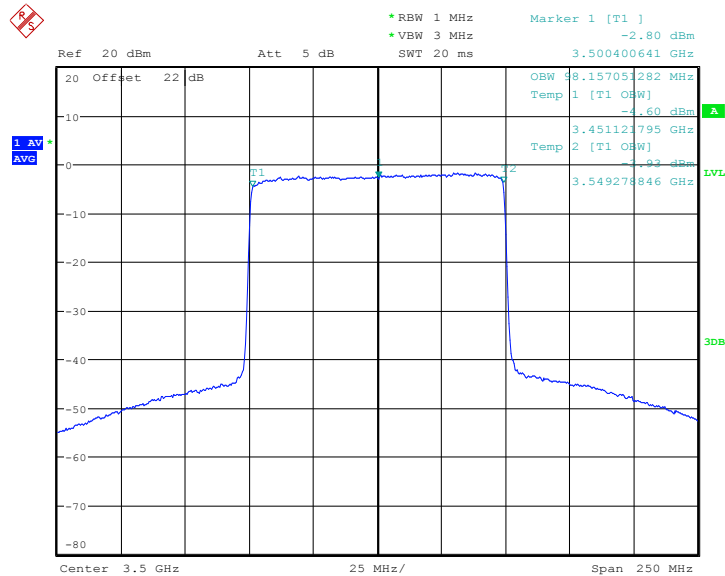
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DL_100MHz AWGN_MCH_Input_Pre-AGC



Date: 19.NOV.2024 11:54:38

DL_100MHz AWGN_MCH_Input_3dB above AGC



Date: 19.NOV.2024 11:54:50



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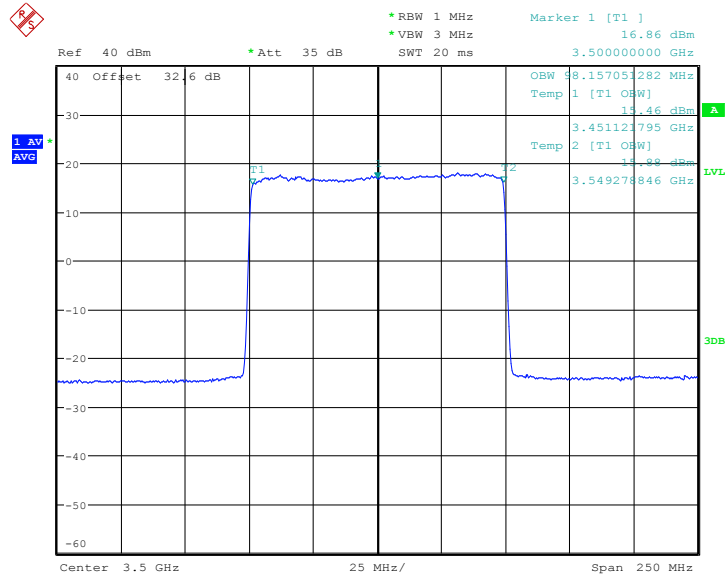
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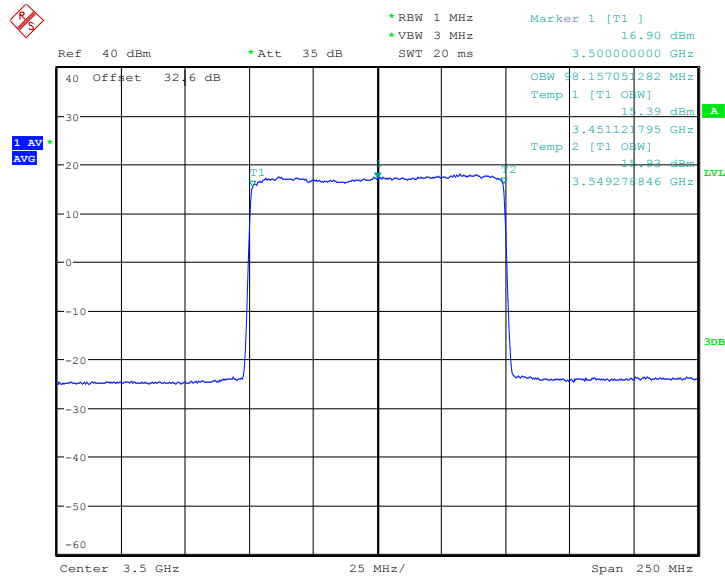
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DL_100MHz AWGN_MCH_Output_Pre-AGC



Date: 19.NOV.2024 08:06:50

DL_100MHz AWGN_MCH_Output_3dB above AGC



Date: 19.NOV.2024 08:06:56



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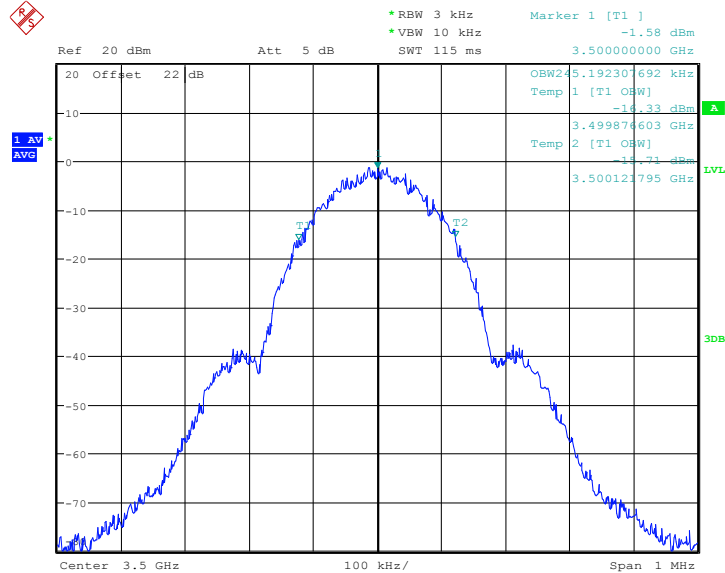
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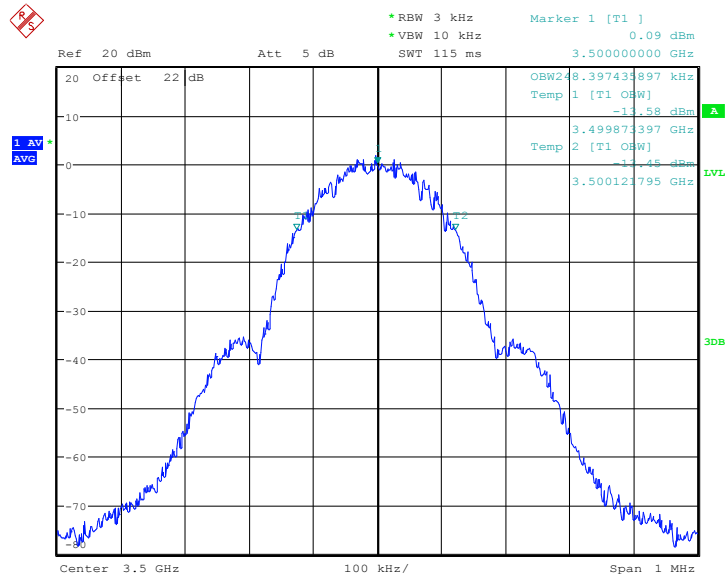
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DL_GSM_MCH_Input_Pre-AGC



Date: 19.NOV.2024 11:50:53

DL_GSM_MCH_Input_3dB above AGC



Date: 19.NOV.2024 11:51:01



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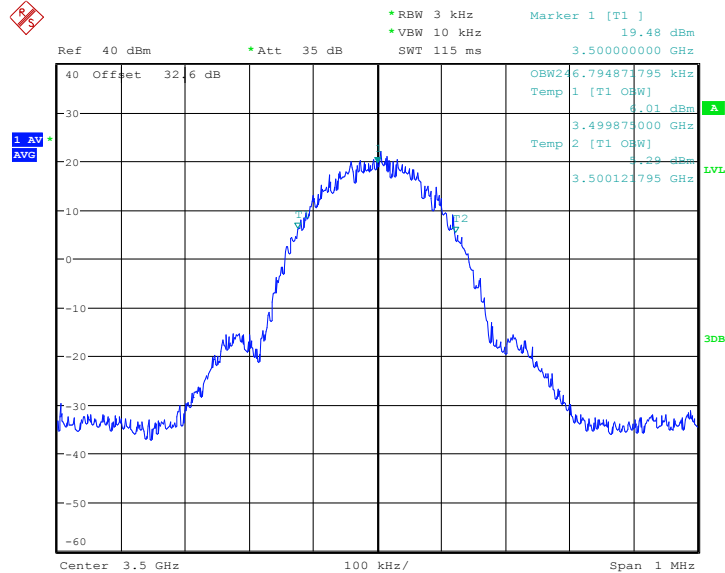
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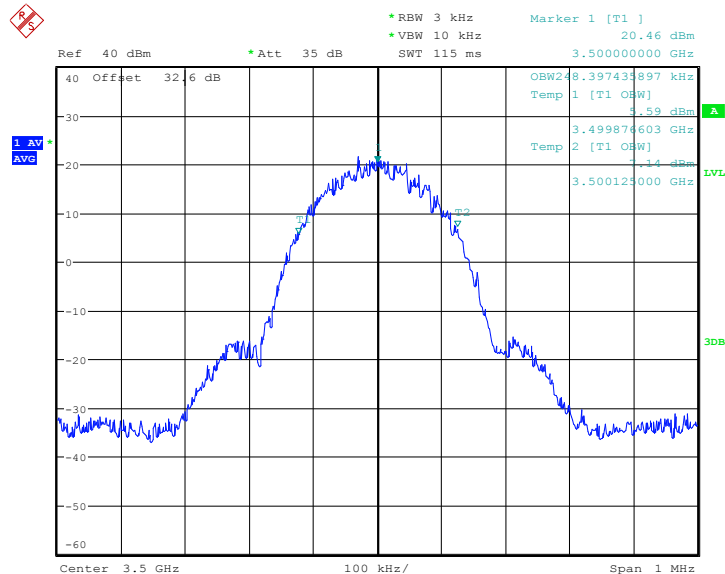
99% OBW

DL_GSM_MCH_Output_Pre-AGC



Date: 19.NOV.2024 08:09:29

DL_GSM_MCH_Output_3dB above AGC



Date: 19.NOV.2024 08:09:35



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3 Output power and amplifier/booster gain

Mean output power and gain								
Test Path	Test Freq. f ₀ (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	EIRP (dBm)	EIRP (W)	Gain (dB)
DL	3452.8	4.1MHz AWGN	Pre-AGC	15	37.02	42.02	15.93	22.21
			3dB above AGC	18	37.03	42.03	15.96	/
		100MHz AWGN	Pre-AGC	15	36.61	41.61	14.49	22.59
			3dB above AGC	18	36.03	41.03	12.68	/
		GSM	Pre-AGC	15	37.49	42.49	17.75	22.17
			3dB above AGC	18	37.82	42.82	19.14	/

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.

Mean output power							
Test Path	Test Freq. f ₀ (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (dBm/MHz)	EIRP (W/MHz)	Verdict
DL	3452.8	4.1MHz AWGN	Pre-AGC	30.23	35.23	3.34	PASS
			3dB above AGC	30.28	35.28	3.38	PASS
		100MHz AWGN	Pre-AGC	16.88	21.88	0.16	PASS
			3dB above AGC	16.31	21.31	0.14	PASS
		GSM	Pre-AGC	37.49	42.49	17.75	PASS
			3dB above AGC	37.82	42.82	19.14	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	3452.8	4.1MHz AWGN	Pre-AGC	9.77	≤13	PASS
			3dB above AGC	9.73		PASS
		100MHz AWGN	Pre-AGC	8.96		PASS
			3dB above AGC	10.22		PASS
Remark: The PAR of a GSM signal is very low and not displayed in this report.						



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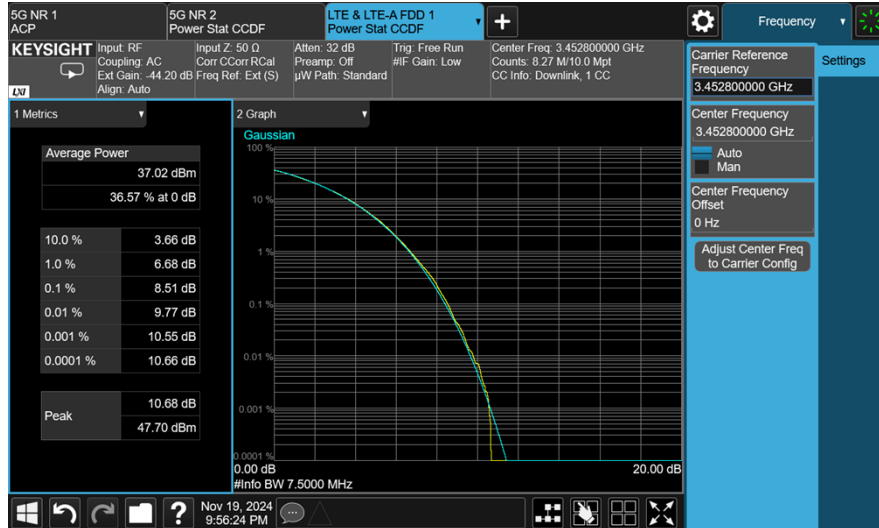
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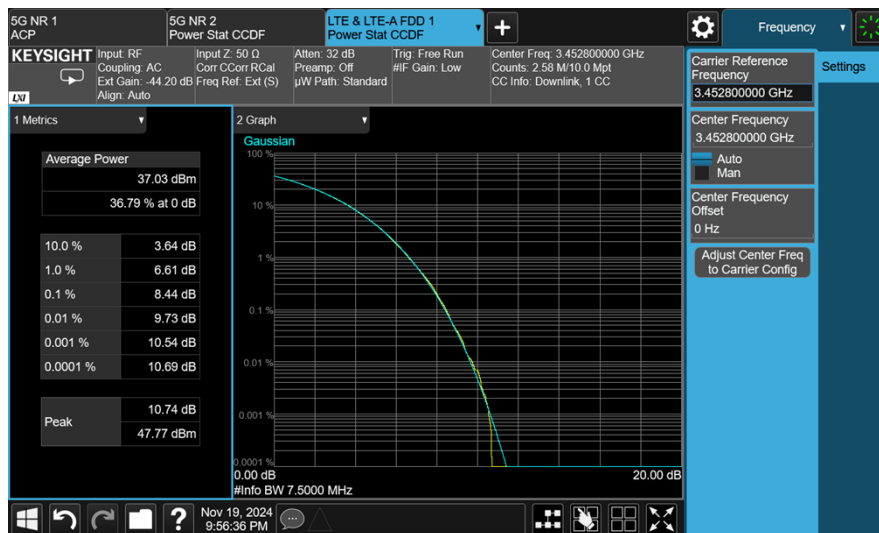
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Peak-to-average ratio (PAR)

DL_4.1MHz AWGN_Pre-AGC



DL_4.1MHz AWGN_3dB above AGC

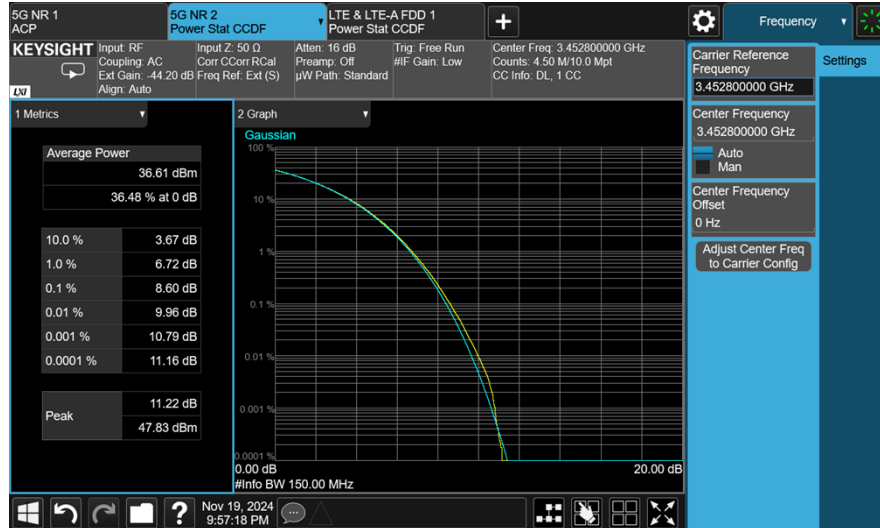


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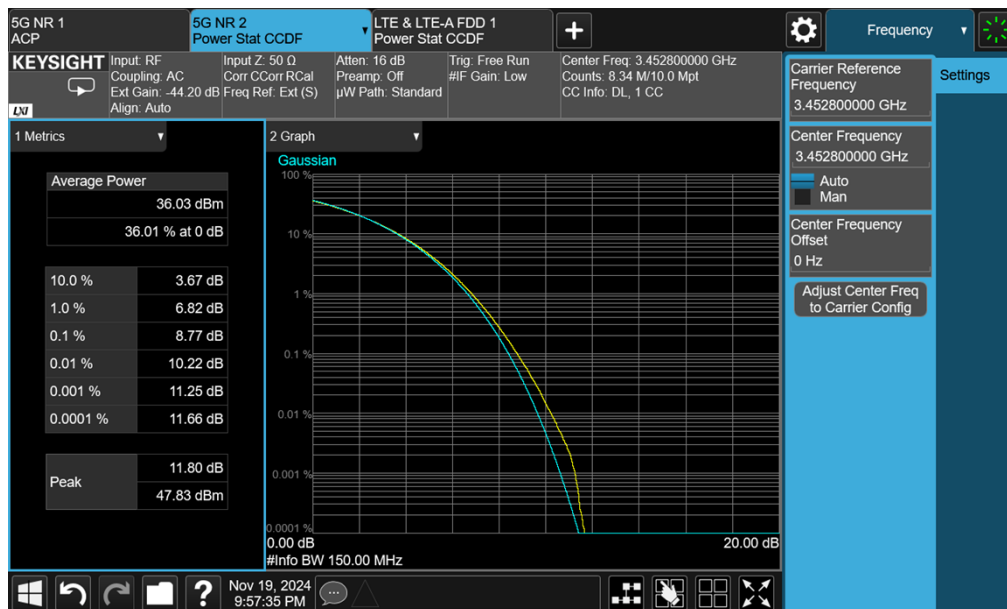
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Peak-to-average ratio (PAR)

DL_100MHz AWGN_Pre-AGC



DL_100MHz AWGN_3dB above AGC



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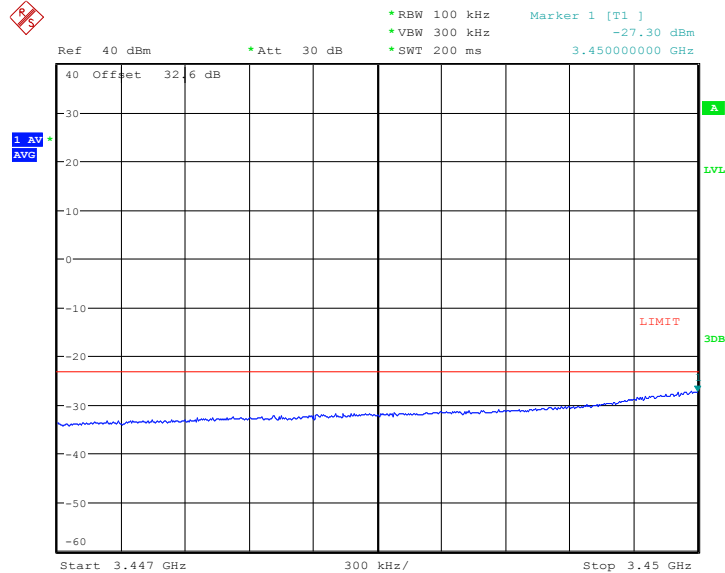
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4 Out-of-band/out-of-block(including intermodulation) emissions

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/MHz)	Verdict
					/100kHz (10kHz)	/1MHz		
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-27.30	-17.30	≤-13	PASS
				3dB above AGC	-27.30	-17.30		PASS
			Two signals input	Pre-AGC	-28.52	-18.52		PASS
				3dB above AGC	-28.32	-18.32		PASS
	HCH		One signal input	Pre-AGC	-25.26	-15.26		PASS
				3dB above AGC	-25.07	-15.07		PASS
			Two signals input	Pre-AGC	-25.99	-15.99		PASS
				3dB above AGC	-26.24	-16.24		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	/	-15.13	≤-13	PASS
				3dB above AGC	/	-14.34		PASS
	HCH		One signal input	Pre-AGC	/	-15.13		PASS
				3dB above AGC	/	-15.17		PASS
DL	LCH	GSM	One signal input	Pre-AGC	-34.51	-14.51	≤-13	PASS
				3dB above AGC	-35.03	-15.03		PASS
			Two signals input	Pre-AGC	-34.69	-14.69		PASS
				3dB above AGC	-36.03	-16.03		PASS
	HCH		One signal input	Pre-AGC	-36.07	-16.07		PASS
				3dB above AGC	-35.51	-15.51		PASS
			Two signals input	Pre-AGC	-38.98	-18.98		PASS
				3dB above AGC	-38.53	-18.53		PASS
Remark: For 4.1MHz AWGN signal, The level in 1MHz RBW= the level in 100kHz RBW+ 10lg(1000/100). For GSM signal, The level in 1MHz RBW= the level in 10kHz RBW+ 10lg(1000/10).								

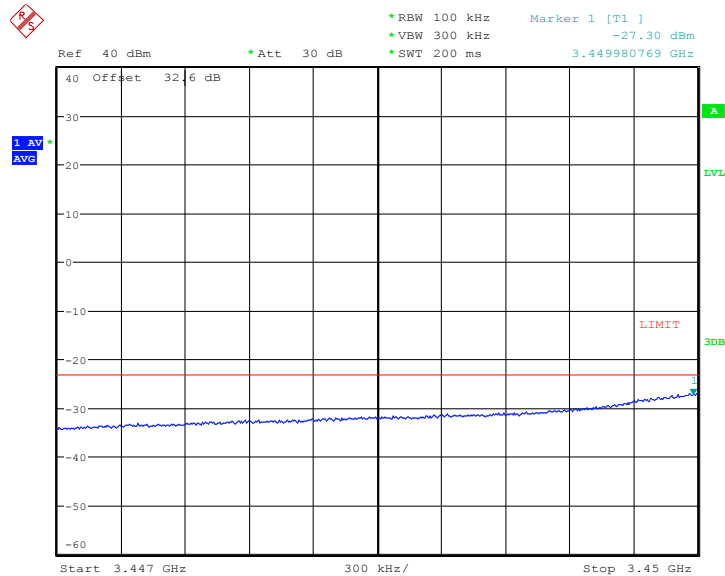
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 09:50:57

DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 09:51:06



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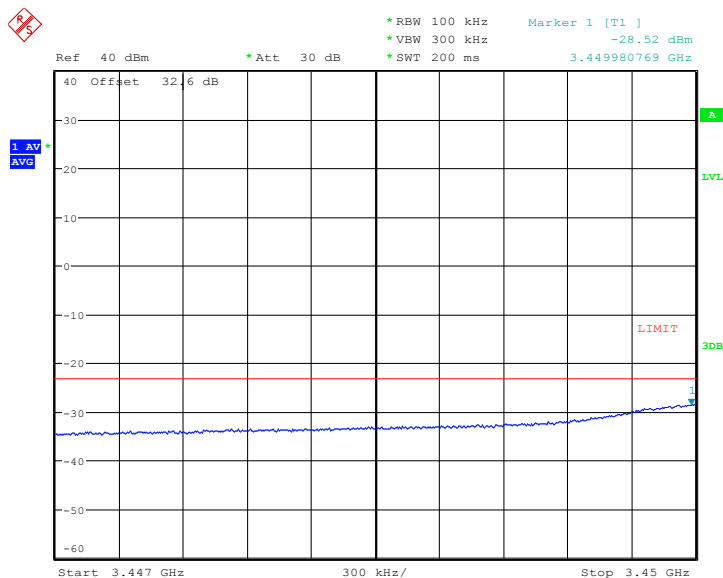
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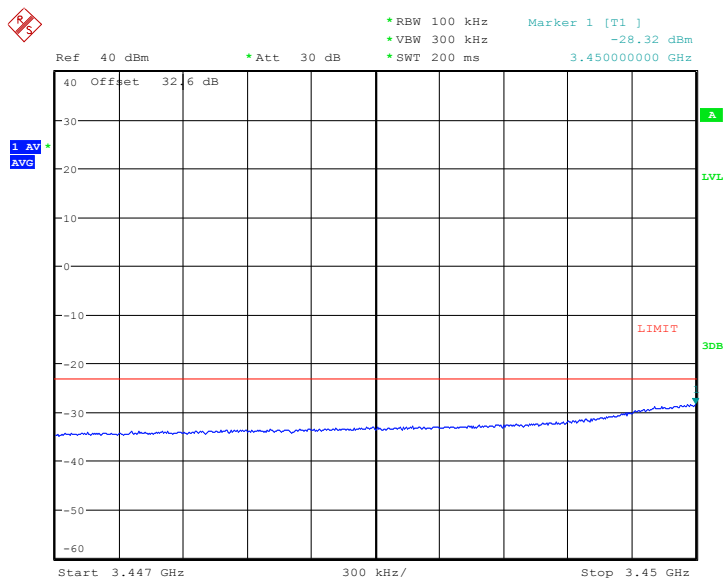
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



Date: 19.NOV.2024 09:51:19

DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC



Date: 19.NOV.2024 09:51:24

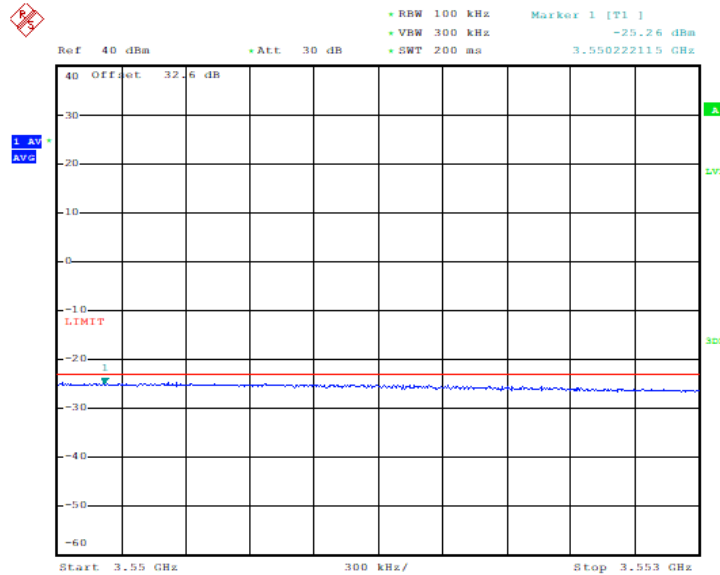


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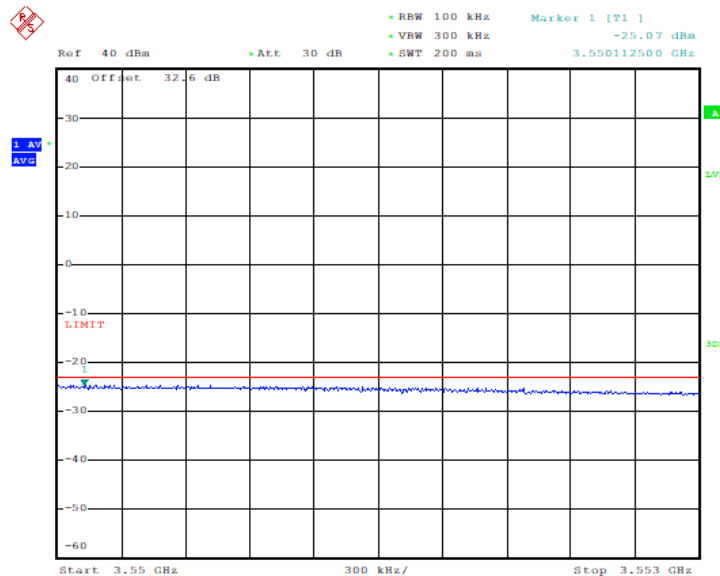
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 09:47:45

DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 09:47:50



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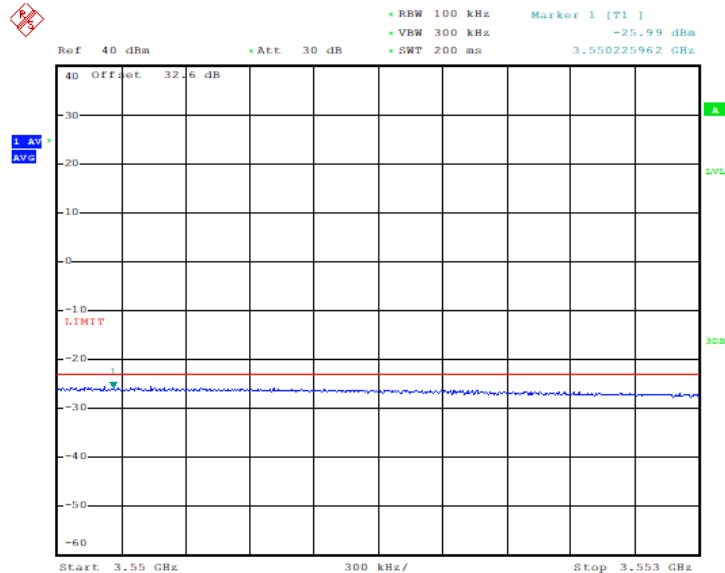
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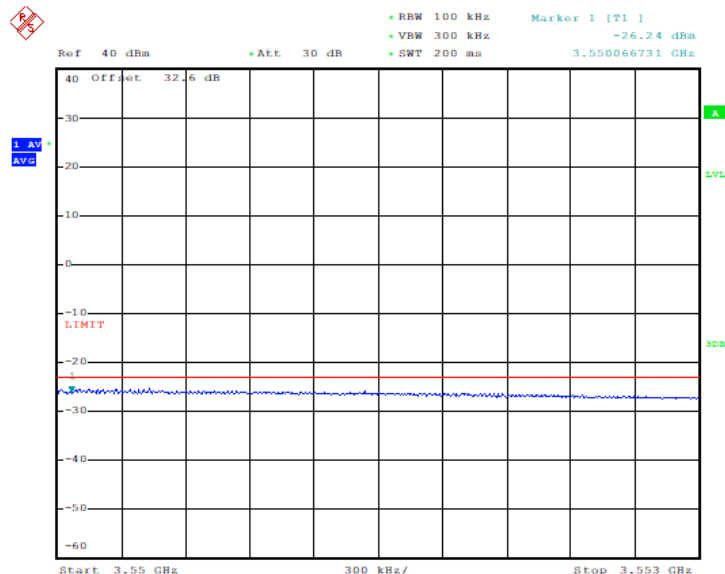
Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



Date: 19.NOV.2024 09:47:08

DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



Date: 19.NOV.2024 09:47:14



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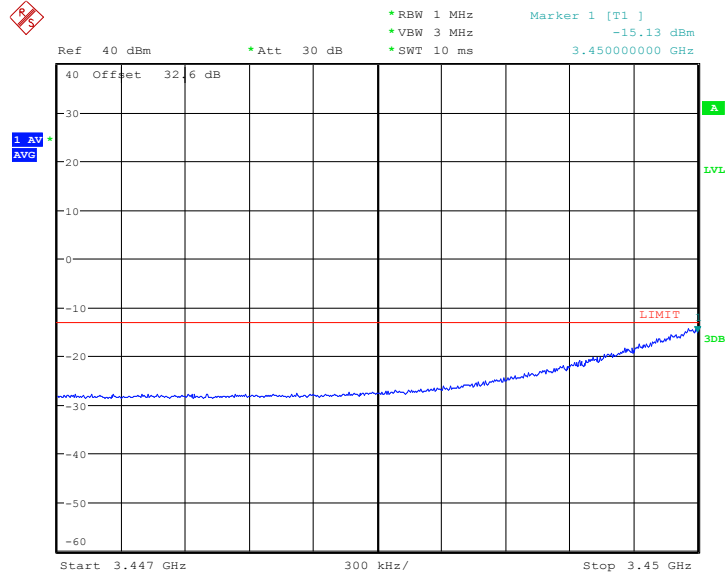
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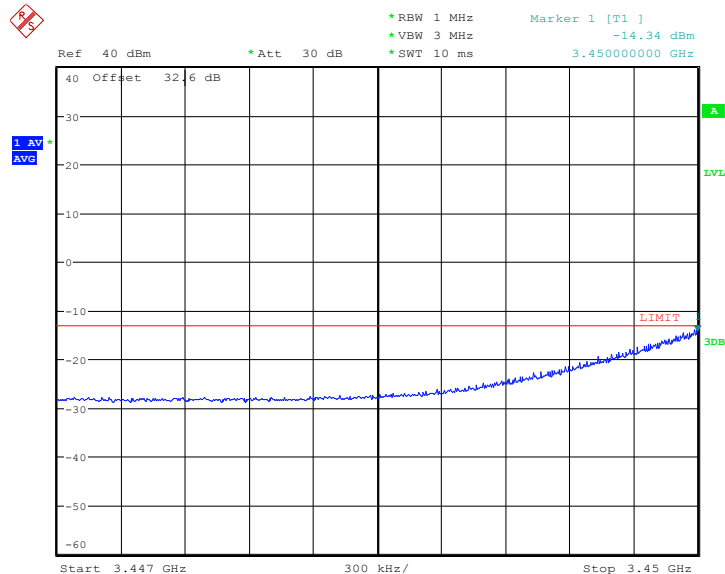
Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 09:56:20

DL_100MHz AWGN_LCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 09:56:26



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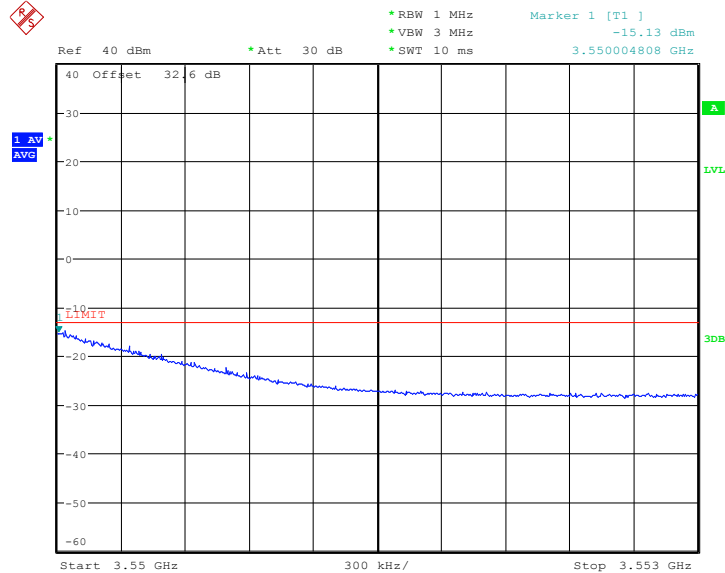
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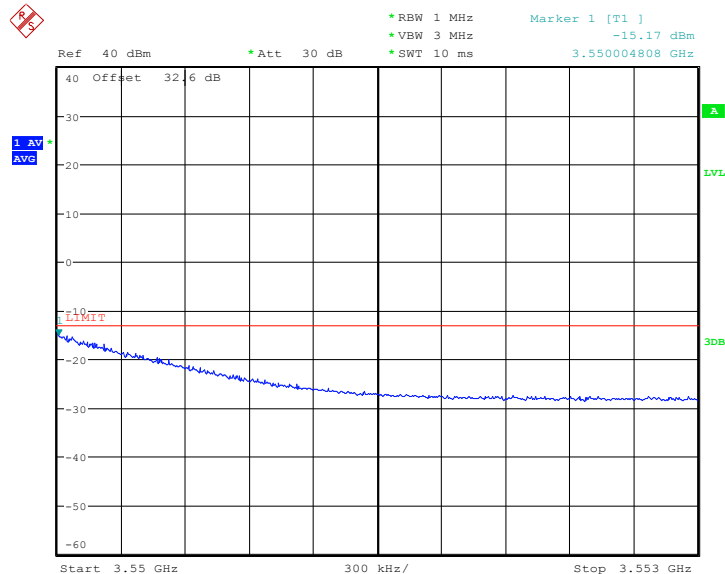
Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 09:56:59

DL_100MHz AWGN_HCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 09:57:02



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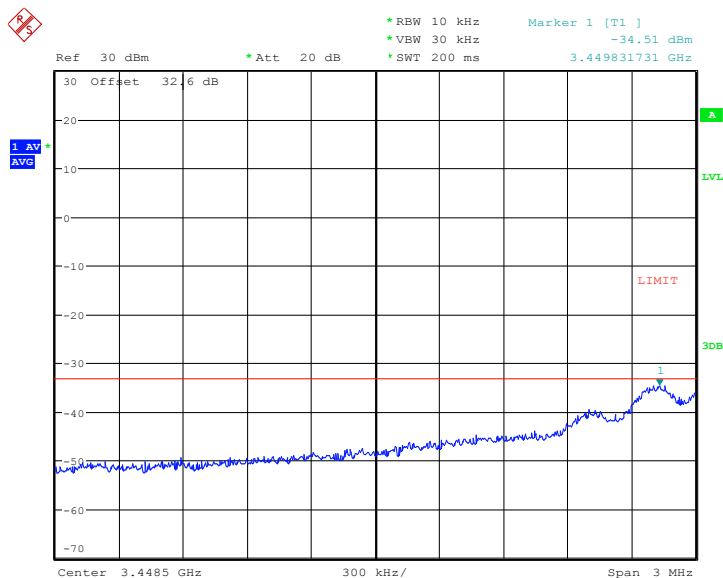
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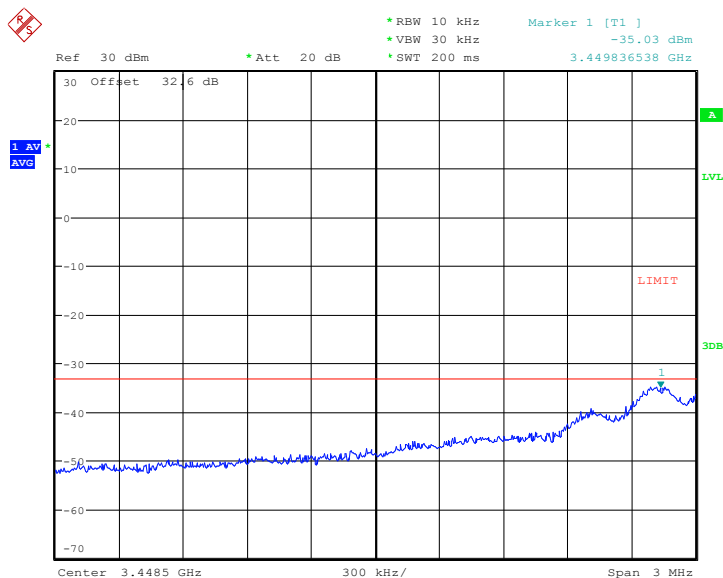
Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



Date: 19.NOV.2024 09:31:00

DL_GSM_LCH_a single test signal_3dB above AGC



Date: 19.NOV.2024 09:31:09

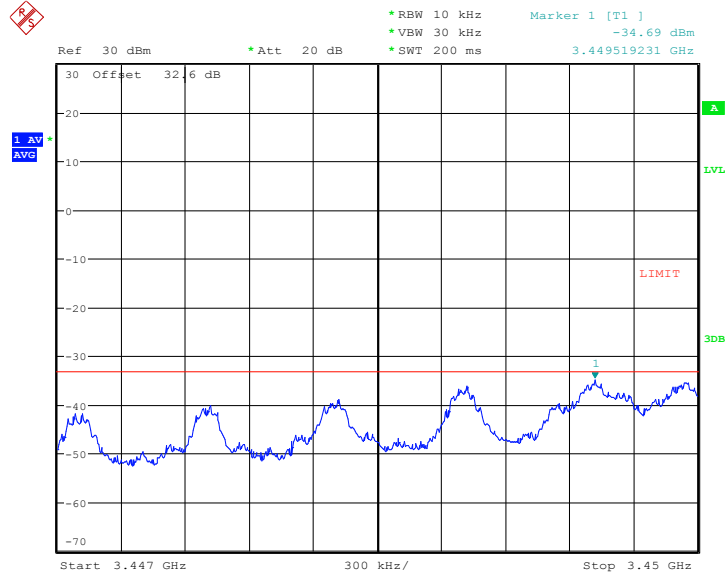


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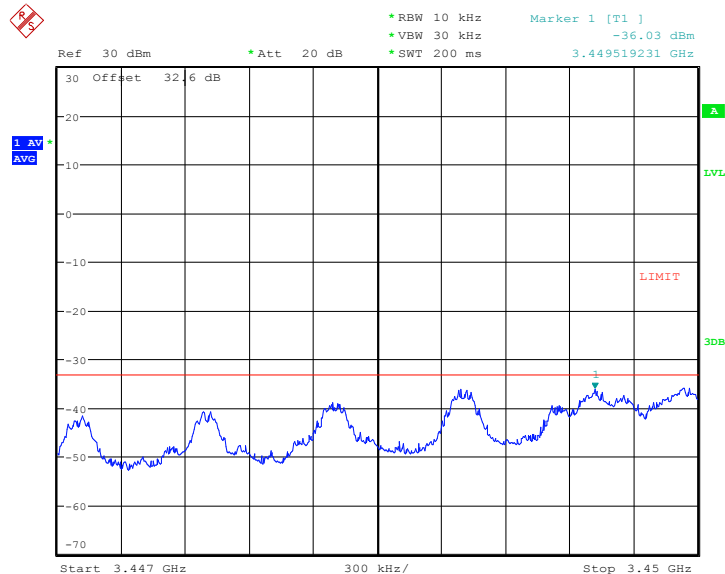
Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC



Date: 19.NOV.2024 09:32:43

DL_GSM_LCH_two adjacent test signals _3dB above AGC



Date: 19.NOV.2024 09:32:51



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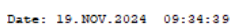
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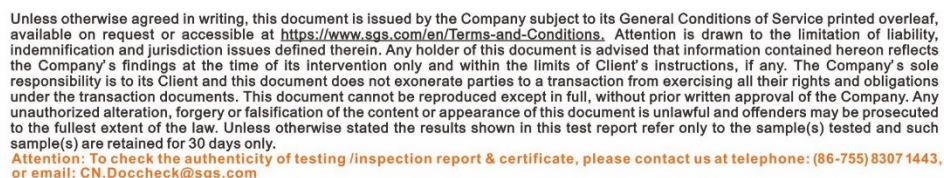
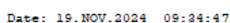
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DL GSM HCH a single test signal Pre-AGC



DL_GSM_HCH_a single test signal_3dB above AGC



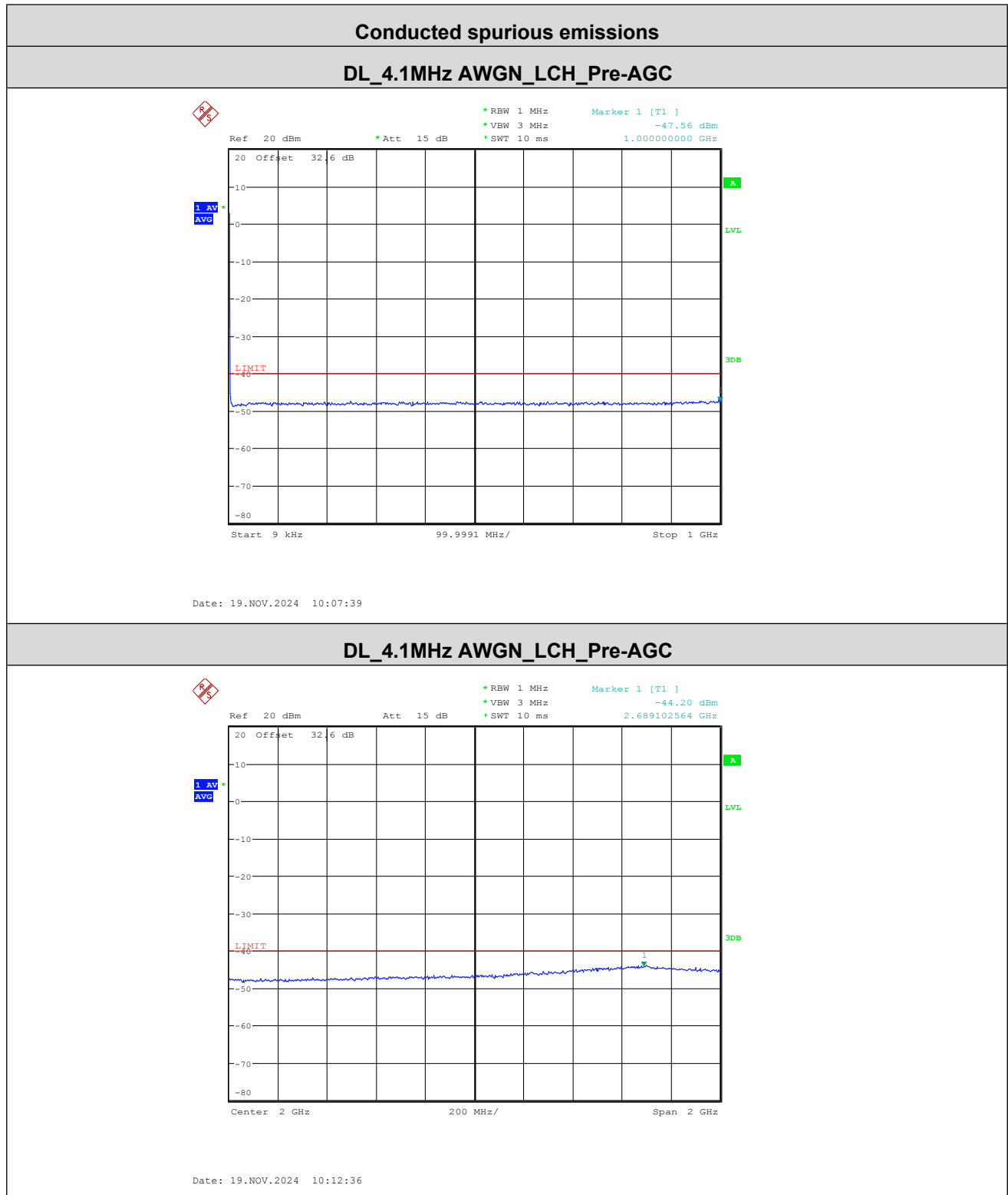


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EMC-ARF-05 Rev 1.1

Page: 25 of 31

5 Conducted Spurious emissions



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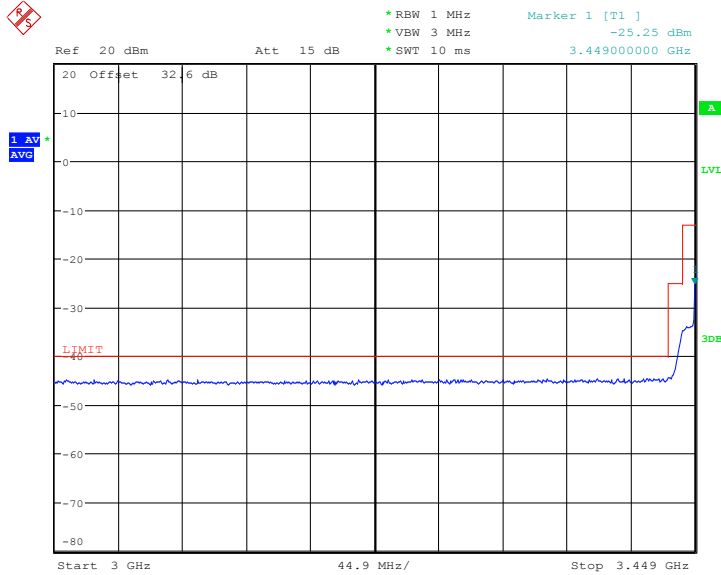
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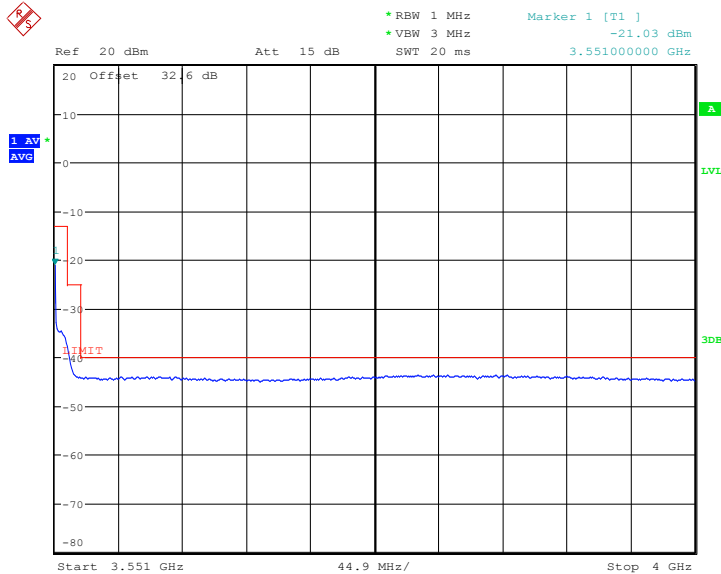
Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC



Date: 19.NOV.2024 10:13:21

DL_4.1MHz AWGN_HCH_Pre-AGC



Date: 19.NOV.2024 10:14:02



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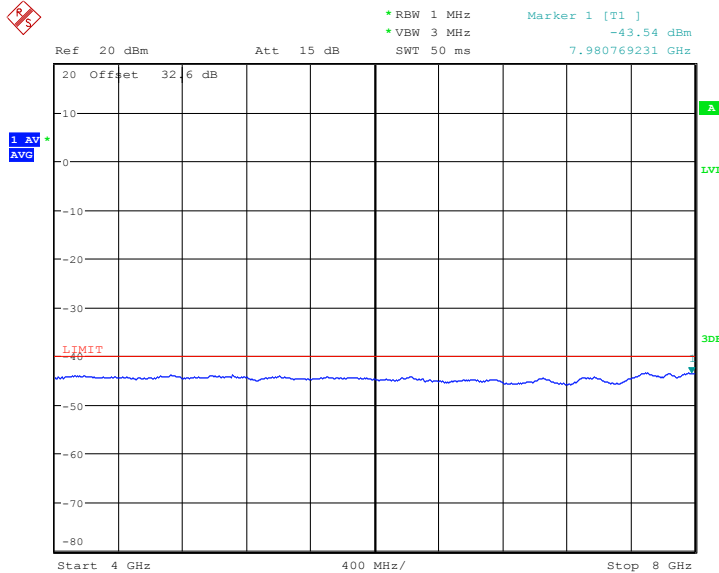
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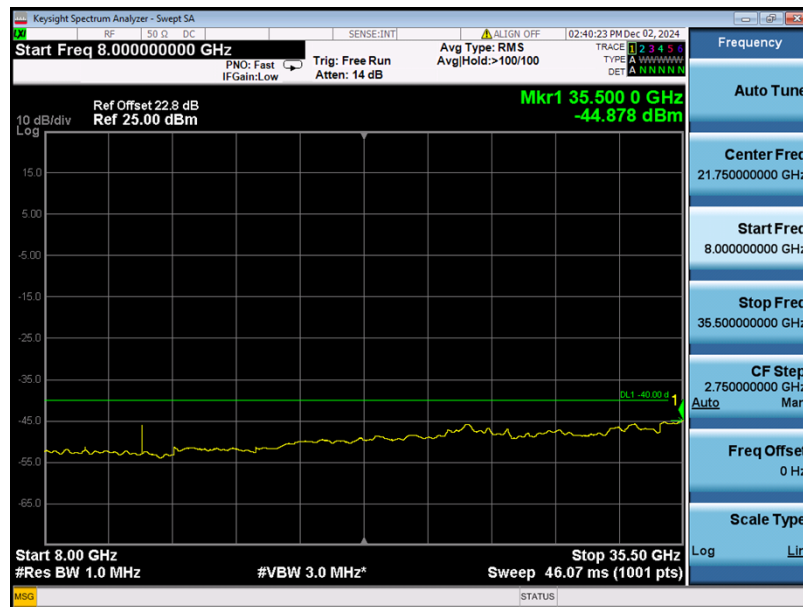
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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC



Date: 19.NOV.2024 10:14:15



Remark:

All modes (with GSM signal/ with 4.1MHz AWGN signal/ with 100MHz AWGN signal) and Low/middle/high channels 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 Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	15.4	0.00440	PASS
			TN	VH	15.3	0.00437	PASS
		100MHz AWGN	TN	VL	14.2	0.00406	PASS
			TN	VH	14.4	0.00411	PASS
		GSM	TN	VL	12.8	0.00366	PASS
			TN	VH	12.4	0.00354	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	12.5	0.00357	PASS
			VN	+40	11.8	0.00337	PASS
			VN	+30	14.3	0.00409	PASS
			VN	+20	11.6	0.00331	PASS
			VN	+10	10.7	0.00306	PASS
			VN	0	12.2	0.00349	PASS
			VN	-10	11.8	0.00337	PASS
			VN	-20	12.5	0.00357	PASS
			VN	-30	11.8	0.00337	PASS
	MCH	100MHz AWGN	VN	+50	11.2	0.00320	PASS
			VN	+40	12.3	0.00351	PASS
			VN	+30	11.7	0.00334	PASS
			VN	+20	11.6	0.00331	PASS
			VN	+10	10.4	0.00297	PASS
			VN	0	13.2	0.00377	PASS
			VN	-10	15.3	0.00437	PASS
			VN	-20	11.3	0.00323	PASS
			VN	-30	9.7	0.00277	PASS
	MCH	GSM	VN	+50	11.3	0.00323	PASS
			VN	+40	12.6	0.00360	PASS
			VN	+30	10.3	0.00294	PASS
			VN	+20	14.5	0.00414	PASS
			VN	+10	10.5	0.00300	PASS
			VN	0	10.2	0.00291	PASS
			VN	-10	14.3	0.00409	PASS
			VN	-20	15.0	0.00429	PASS
			VN	-30	10.5	0.00300	PASS



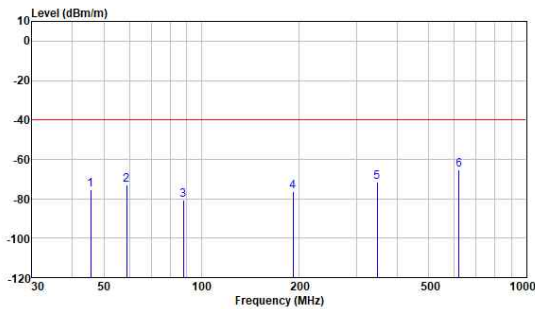
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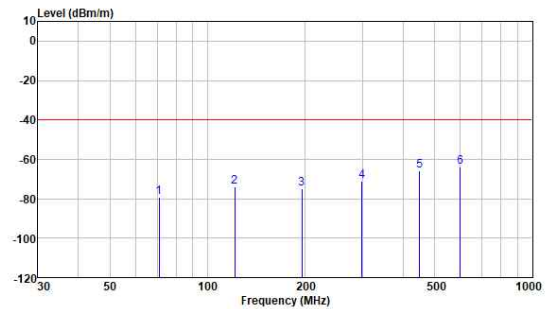
7 Radiated Spurious emissions

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz

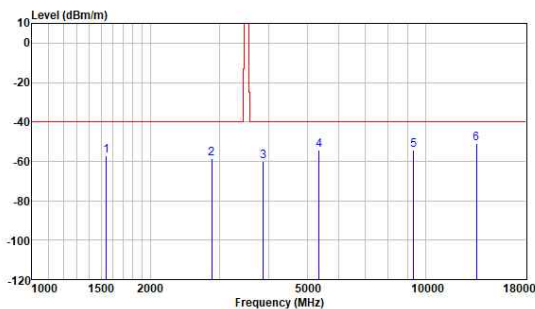


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	45.53	-70.90	-4.44	-75.34	-40.00	-35.34	HORIZONTAL
2	58.82	-70.70	-2.43	-73.13	-40.00	-33.13	HORIZONTAL
3	87.72	-70.70	-9.88	-80.58	-40.00	-40.58	HORIZONTAL
4	191.07	-70.01	-6.32	-76.33	-40.00	-36.33	HORIZONTAL
5	346.81	-69.89	-1.51	-71.40	-40.00	-31.40	HORIZONTAL
6	628.71	-68.82	3.35	-65.47	-40.00	-25.47	HORIZONTAL

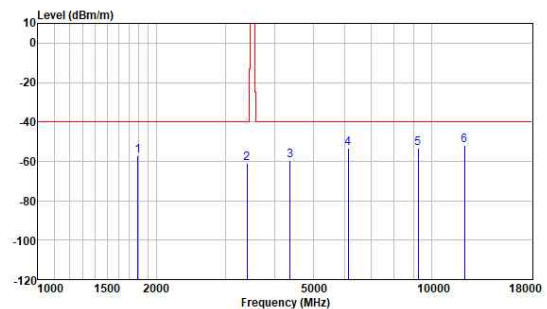


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	70.83	-70.61	-8.58	-79.19	-40.00	-39.19	VERTICAL
2	121.12	-69.98	-3.93	-73.91	-40.00	-33.91	VERTICAL
3	195.14	-70.31	-4.59	-74.90	-40.00	-34.90	VERTICAL
4	298.27	-68.55	-2.66	-71.21	-40.00	-31.21	VERTICAL
5	449.56	-67.51	1.48	-66.03	-40.00	-26.03	VERTICAL
6	599.32	-68.00	4.19	-63.81	-40.00	-23.81	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	1547.20	-62.25	4.95	-57.30	-40.00	-17.30	HORIZONTAL
2	2863.65	-62.60	3.99	-58.61	-40.00	-18.61	HORIZONTAL
3	3867.83	-63.16	3.07	-60.09	-40.00	-20.09	HORIZONTAL
4	5361.83	-67.06	12.82	-54.24	-40.00	-14.24	HORIZONTAL
5	9312.59	-71.04	16.96	-54.08	-40.00	-14.08	HORIZONTAL
6	13442.81	-78.93	28.04	-50.89	-40.00	-10.89	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1792.94	-62.89	5.76	-57.13	-40.00	-17.13	VERTICAL
2	3396.10	-64.01	3.10	-60.91	-40.00	-20.91	VERTICAL
3	4367.06	-64.46	4.75	-59.71	-40.00	-19.71	VERTICAL
4	6142.02	-72.33	19.03	-53.30	-40.00	-13.30	VERTICAL
5	9232.19	-70.23	17.05	-53.18	-40.00	-13.18	VERTICAL
6	12114.35	-73.91	22.14	-51.77	-40.00	-11.77	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 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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