Appendix for Test report

Contents

1Appendix_A: Effective Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	30.15	32.08	38.5	PASS
		MCH	31.12	33.05	38.5	PASS
		HCH	31.25	33.18	38.5	PASS
	GSM/TM2	LCH	25.01	26.94	38.5	PASS
		MCH	26.02	27.95	38.5	PASS
		HCH	25.99	27.92	38.5	PASS
WCDMA850	UMTS/TM1	LCH	21.08	23.01	38.5	PASS
		MCH	21.15	23.08	38.5	PASS
		HCH	21.22	23.15	38.5	PASS

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	28.8	31.3	33	PASS
		MCH	28.81	31.31	33	PASS
		HCH	28.33	30.83	33	PASS
	GSM/TM2	LCH	25.48	27.98	33	PASS
		MCH	25.51	28.01	33	PASS
		HCH	25.04	27.54	33	PASS
WCDMA1900	UMTS/TM1	LCH	21.58	24.08	33	PASS
		MCH	21.64	24.14	33	PASS
		HCH	21.42	23.92	33	PASS

Note1: a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

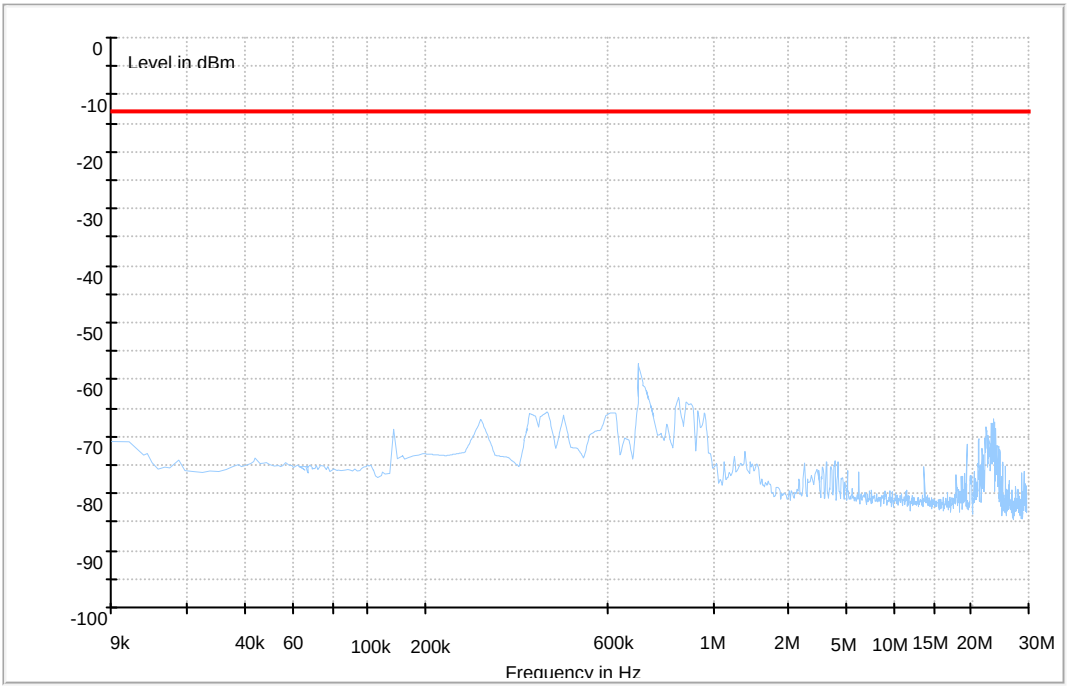
2Appendix_G: Field Strength of Spurious Radiation

2.1For GSM

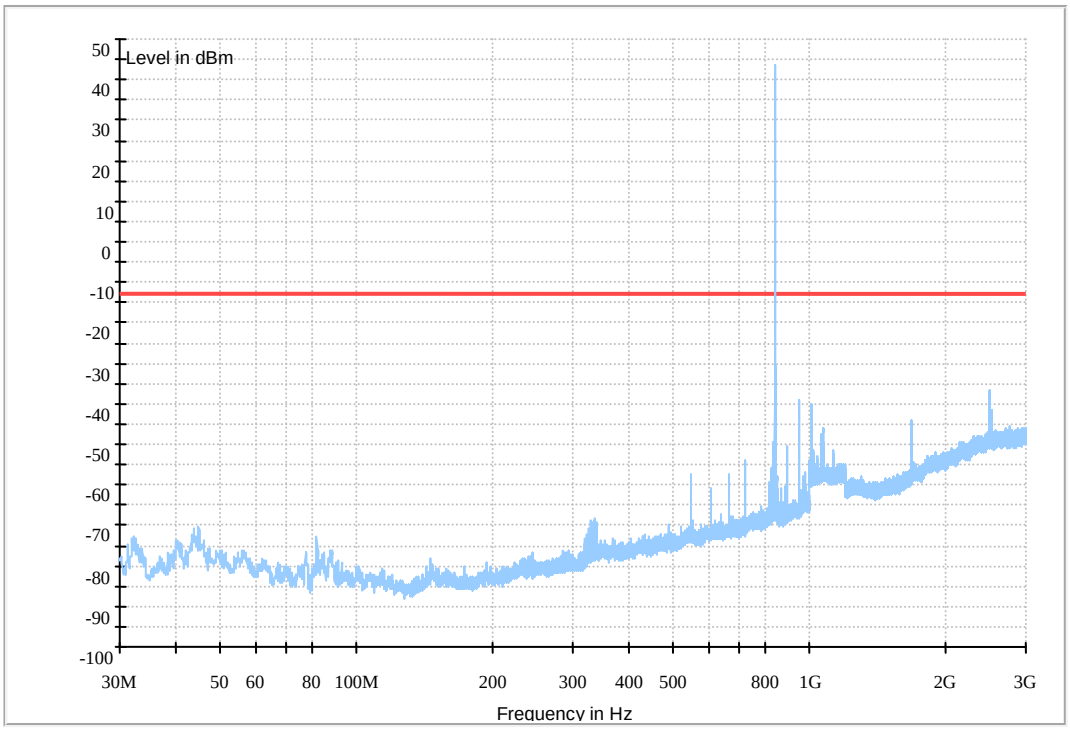
2.1.1Test Band=GSM850

2.1.1.1 Test Mode = GSM/TM1

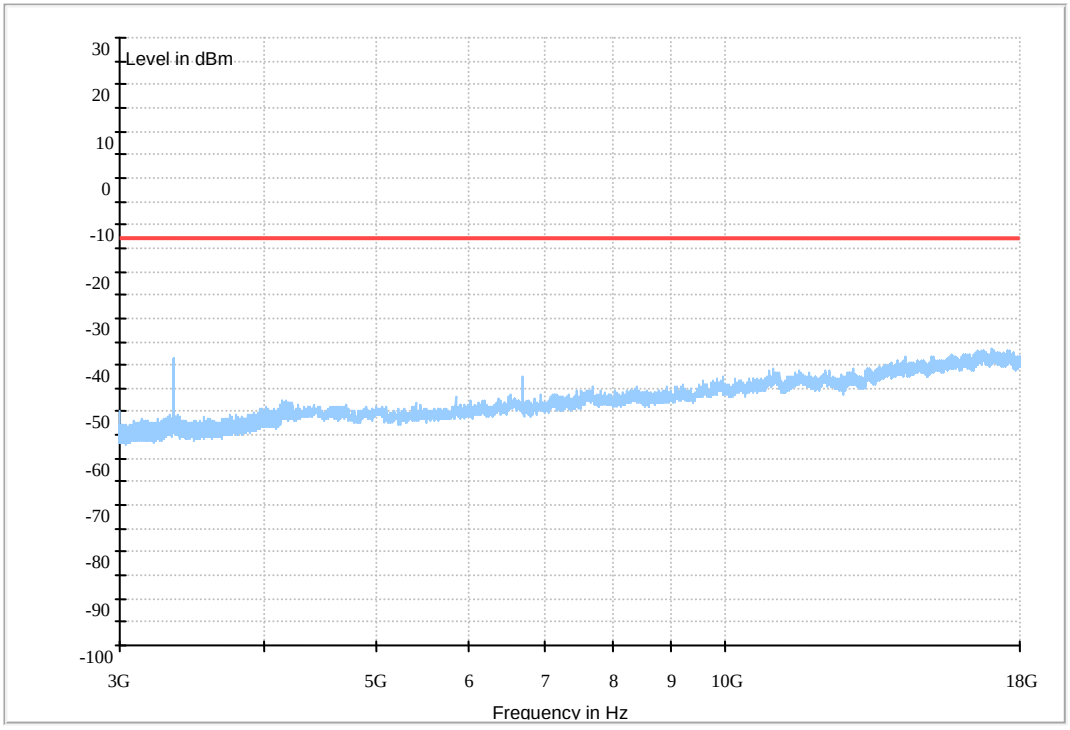
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)

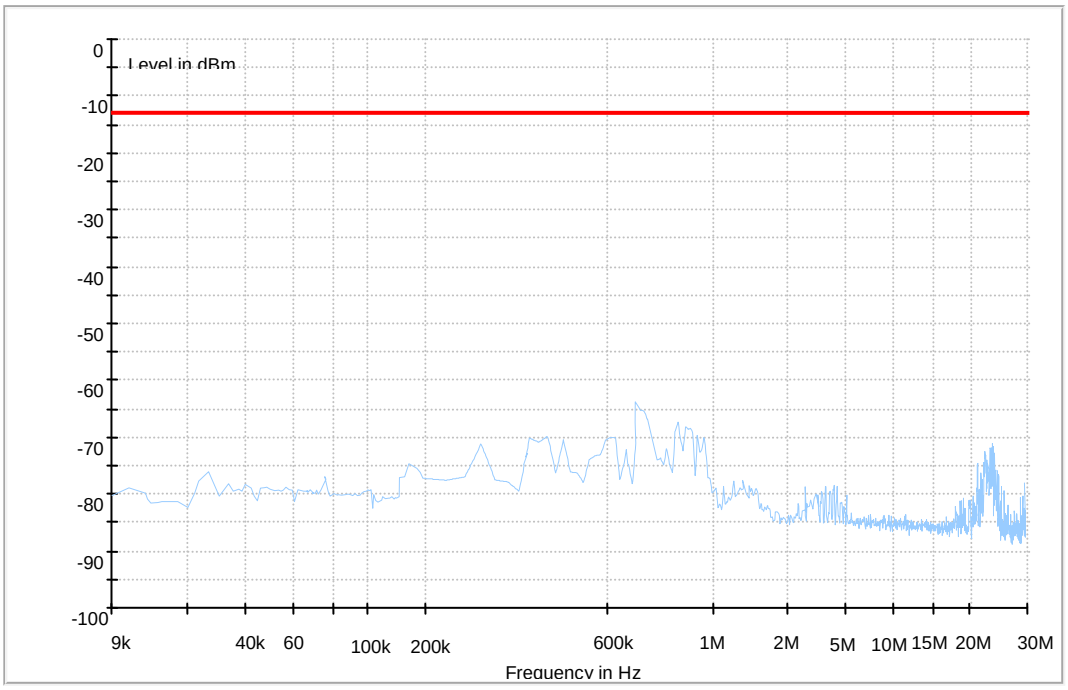


Traffic Mode (3GHz-18GHz)

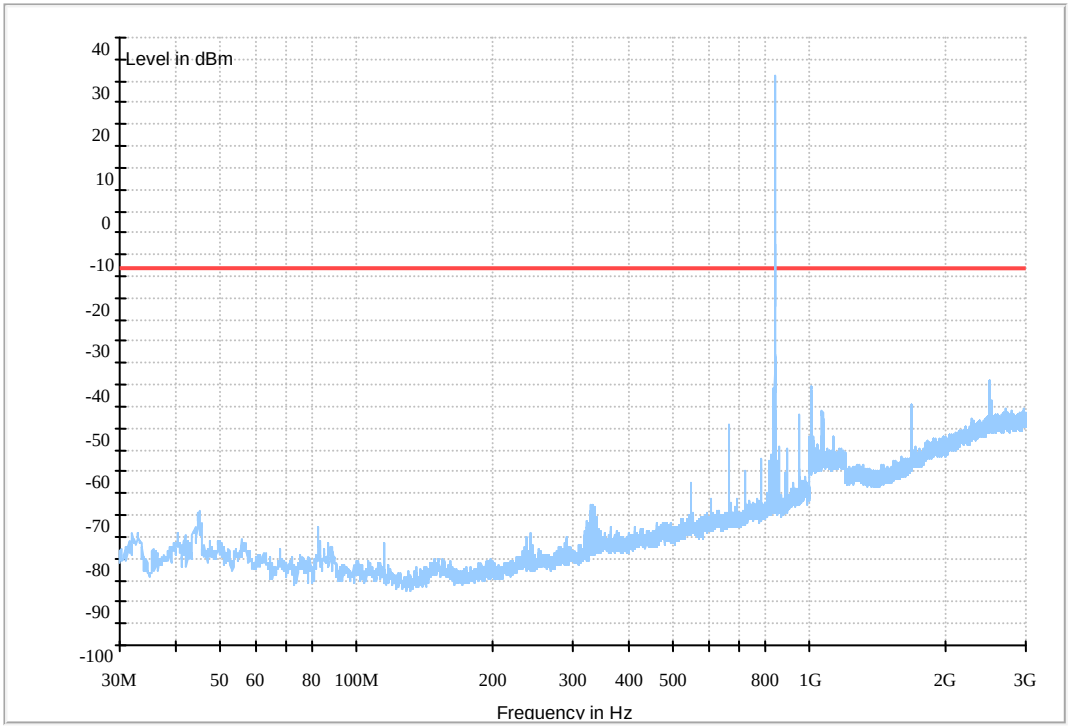


2.1.1.2 Test Mode = GSM/TM2

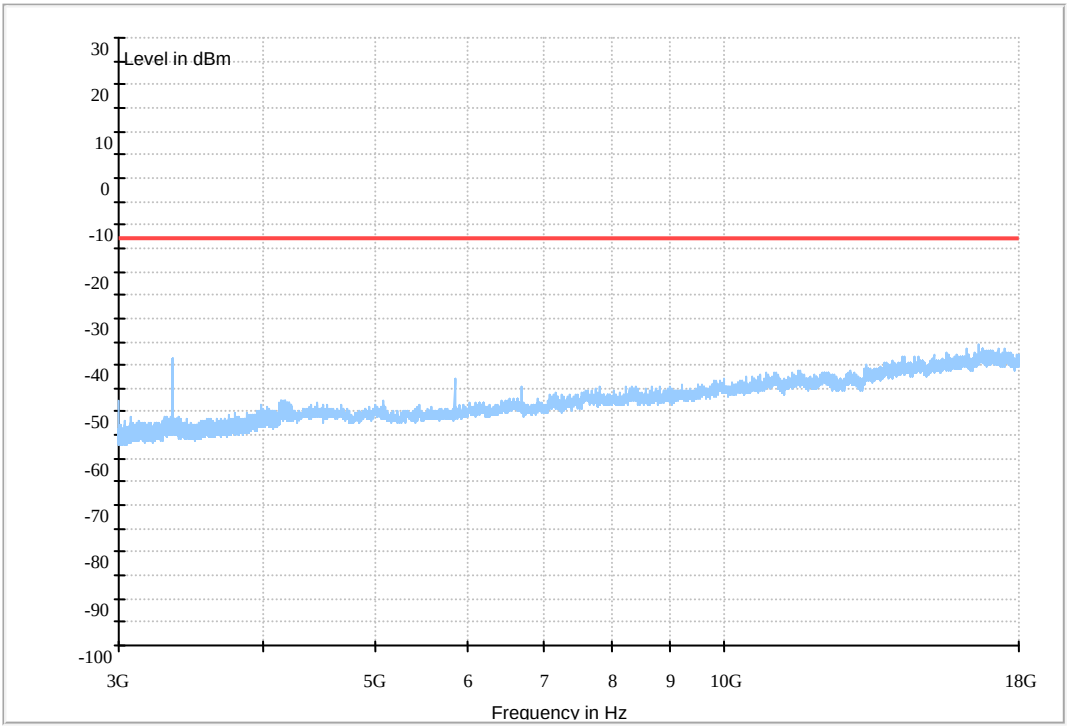
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



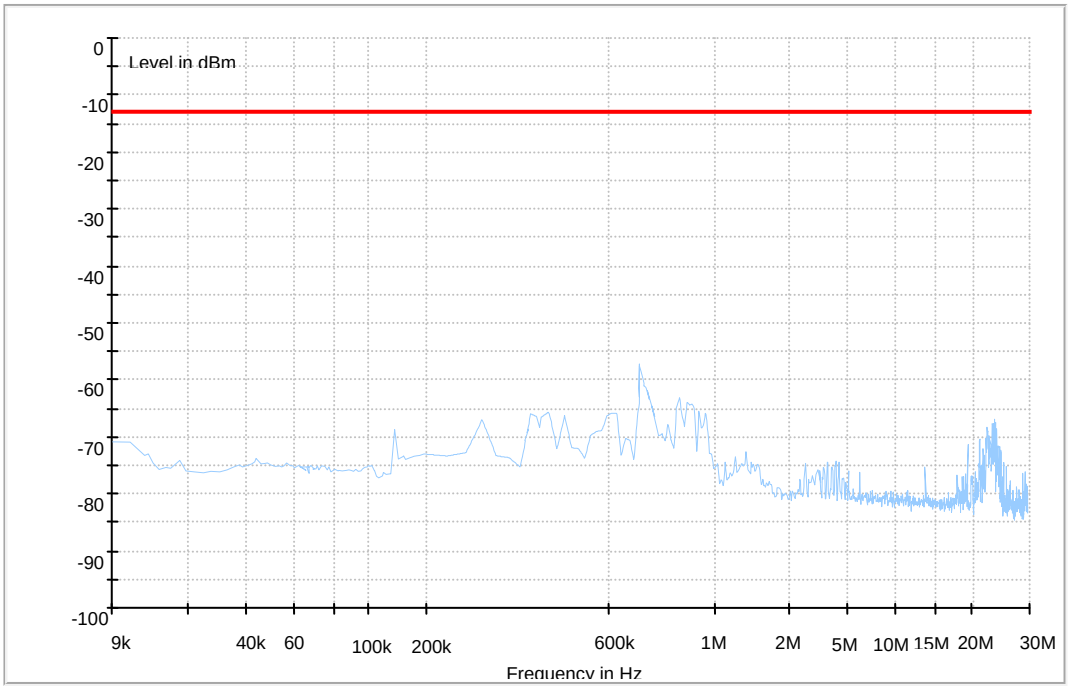
Traffic Mode (3GHz-18GHz)



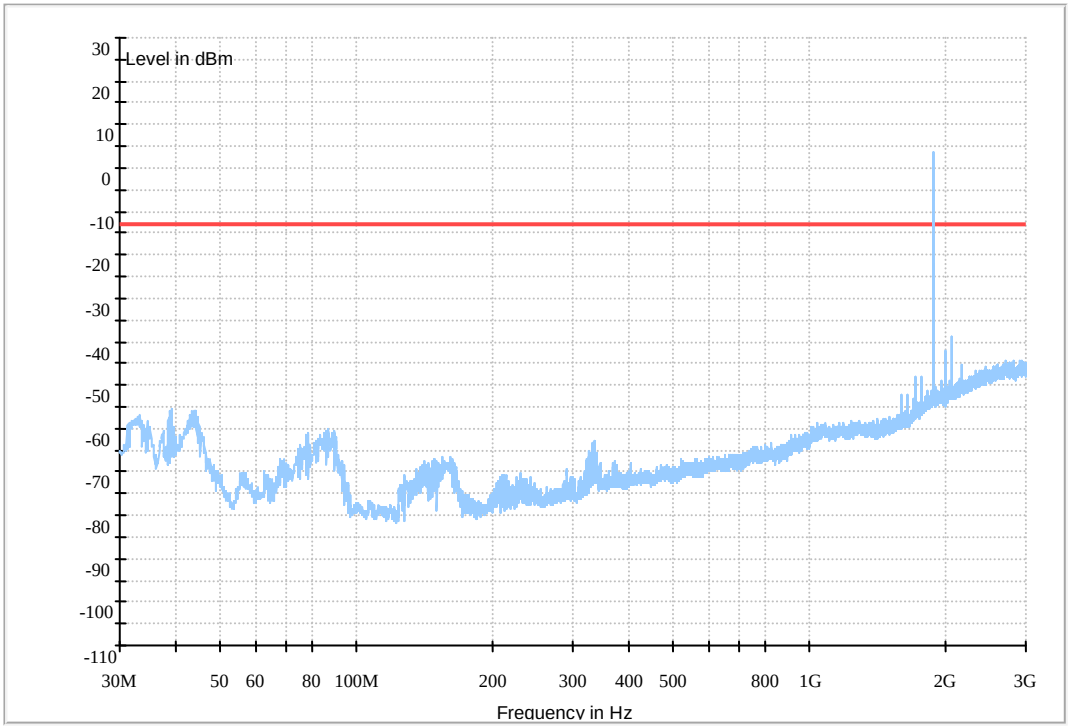
2.1.2Test Band=GSM1900

2.1.2.1 Test Mode = GSM/TM1

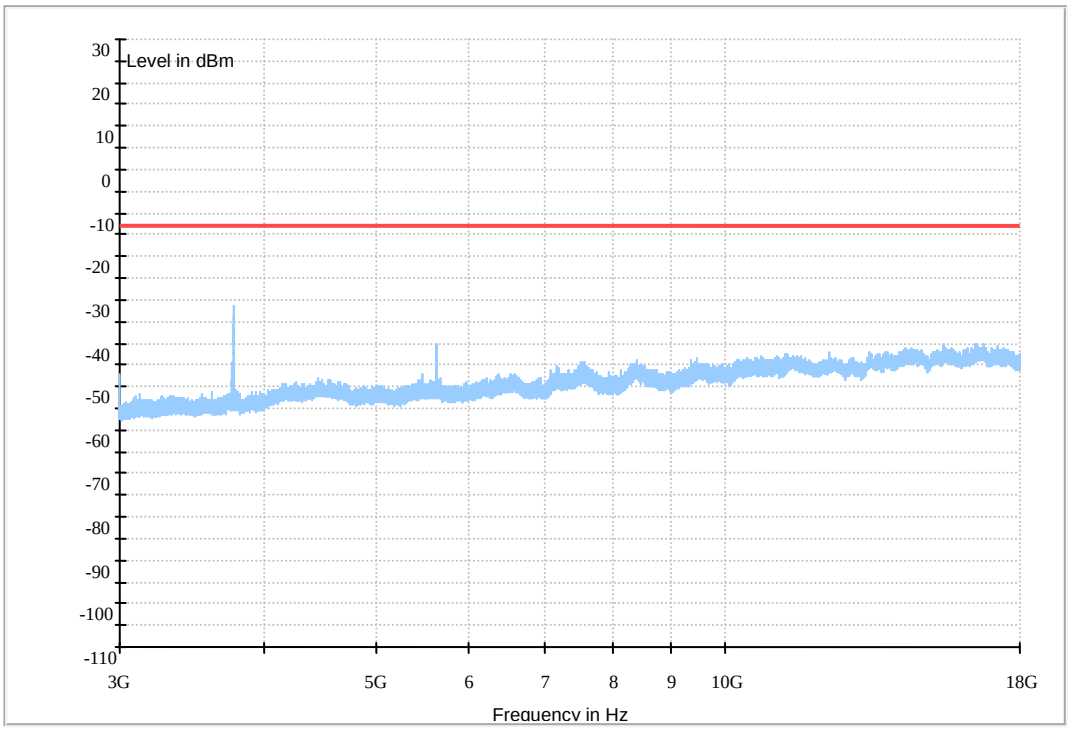
Traffic Mode (9kHz-30MHz)



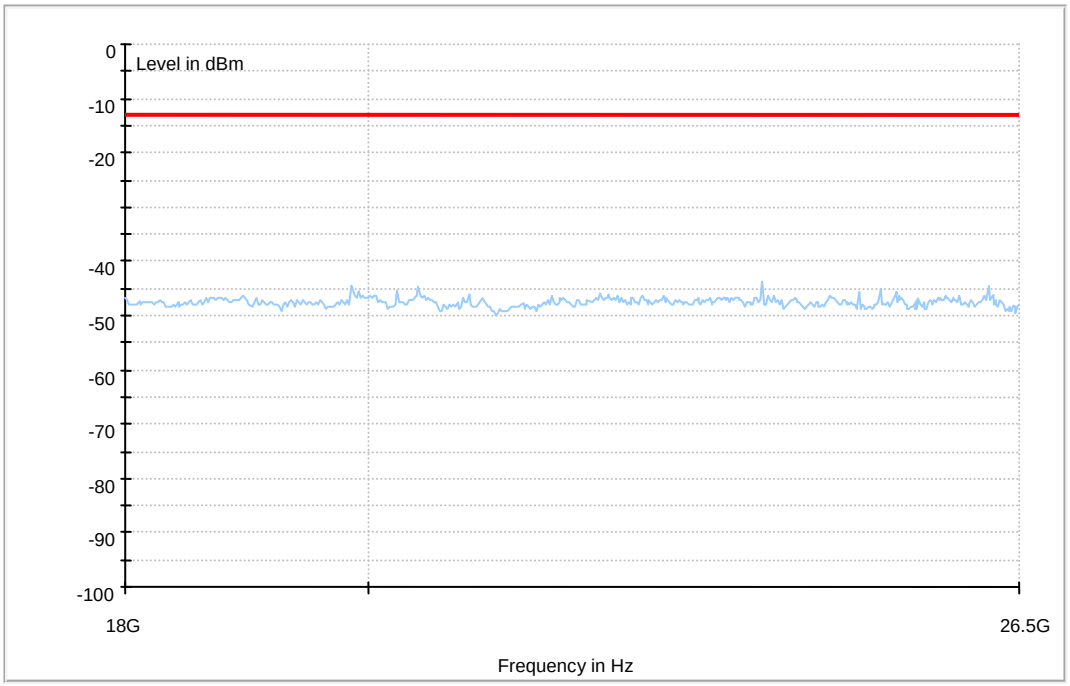
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)

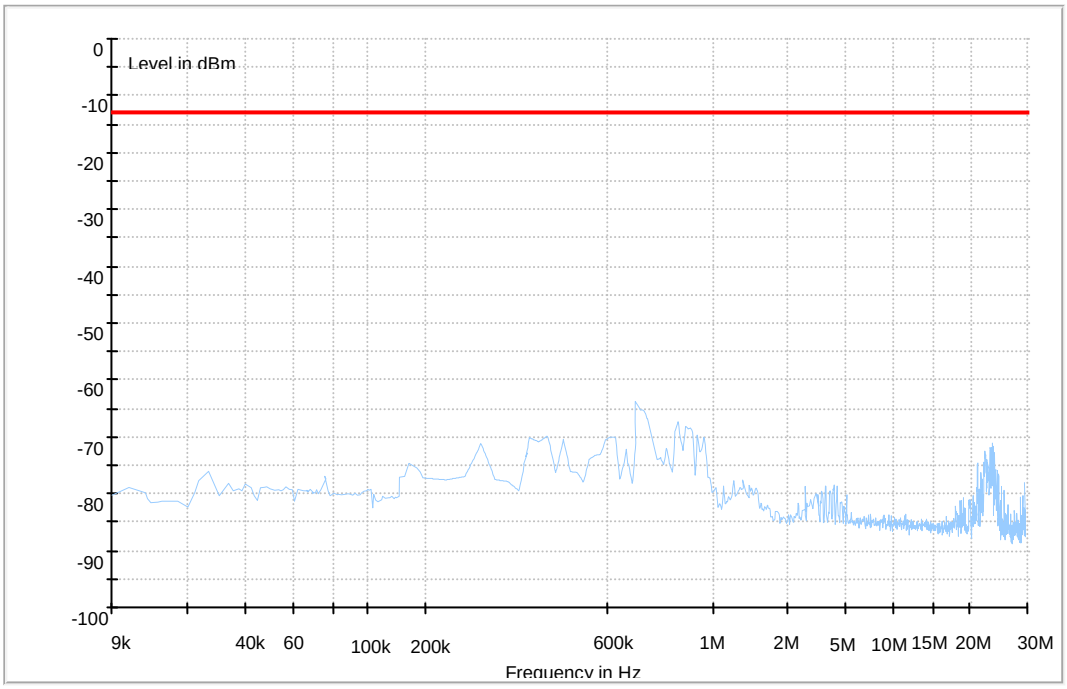


Traffic Mode (18GHz-26.5GHz)

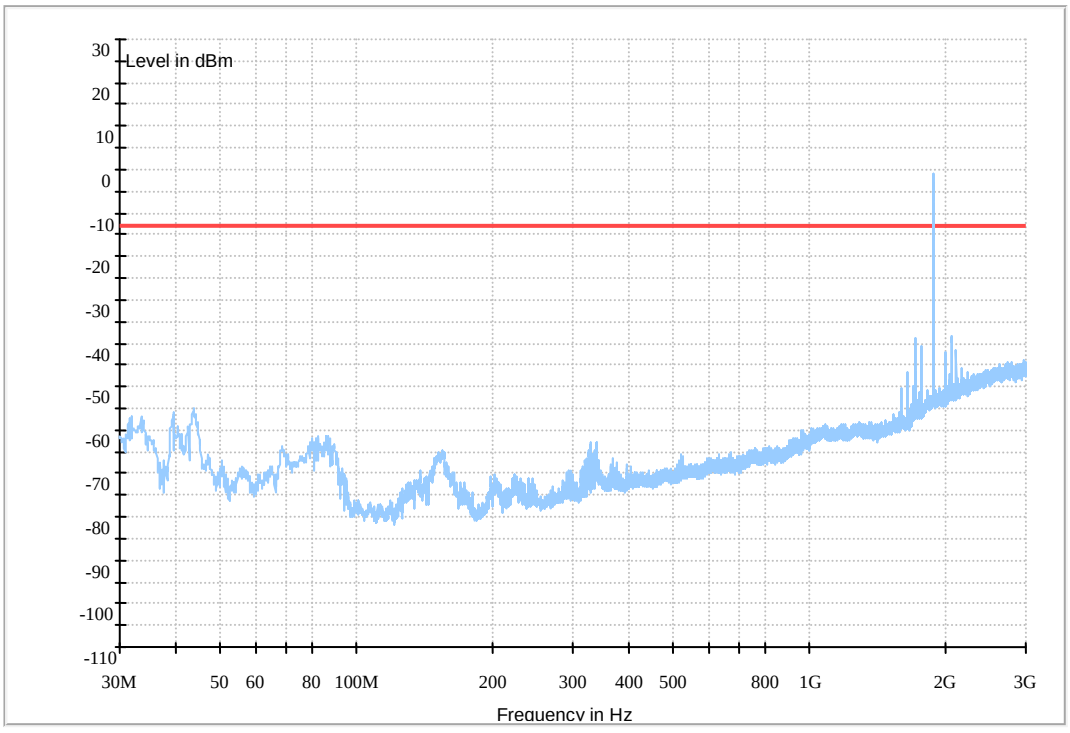


2.1.2.2 Test Mode = GSM/TM2

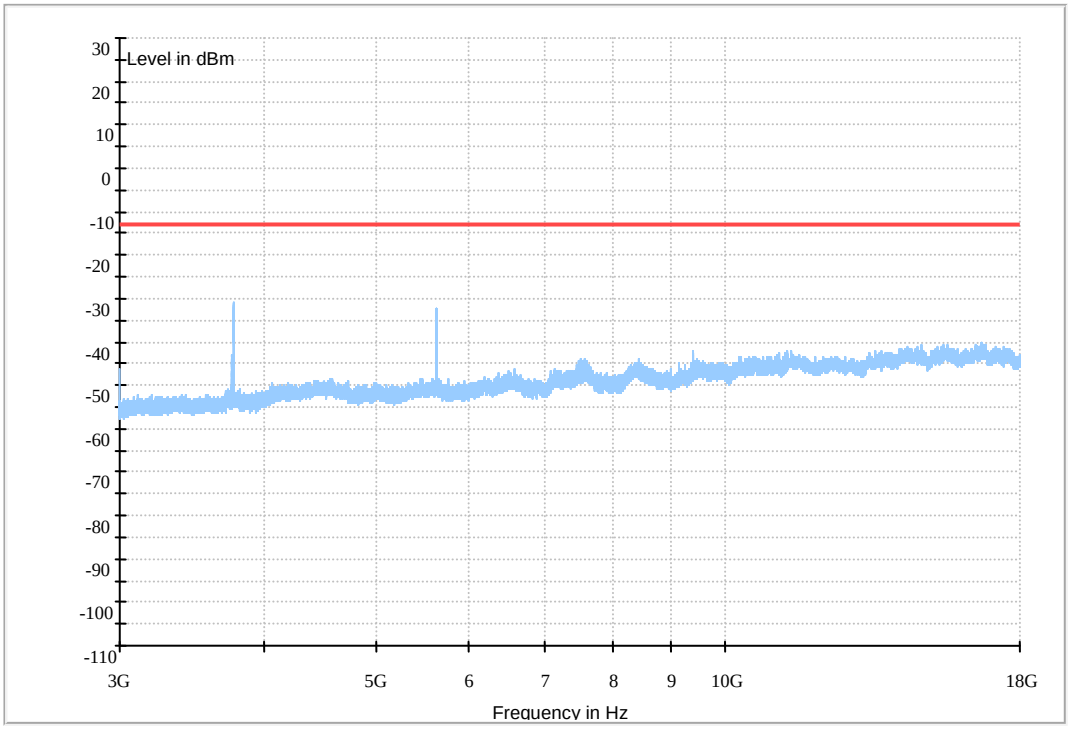
Traffic Mode (9kHz-30MHz)



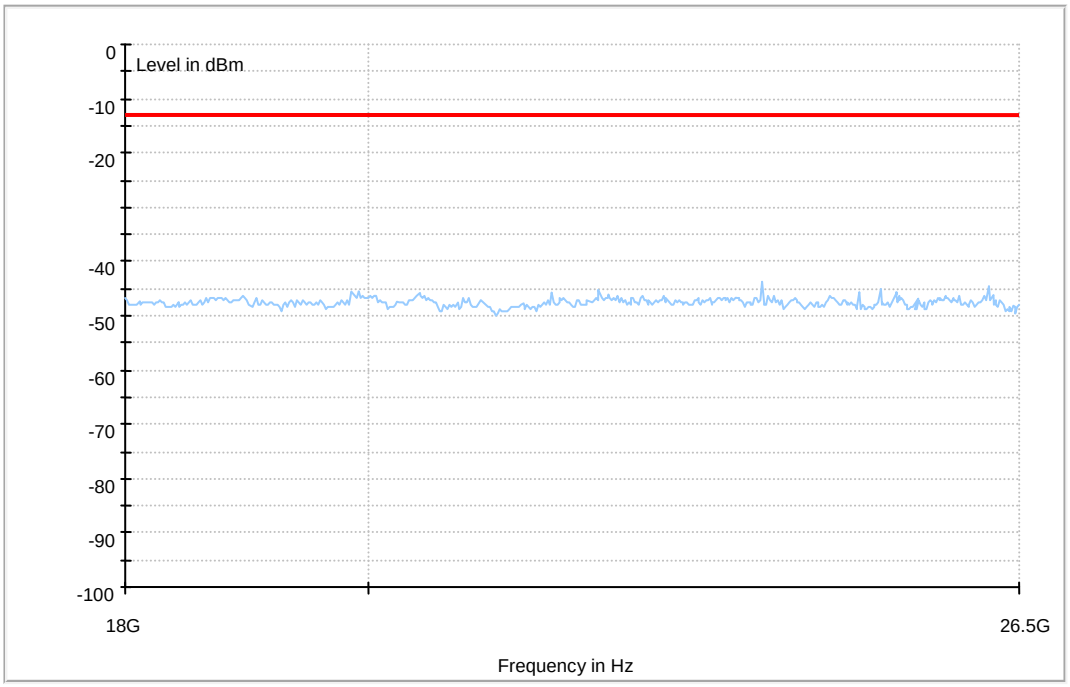
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



Traffic Mode (18GHz-26.5GHz)

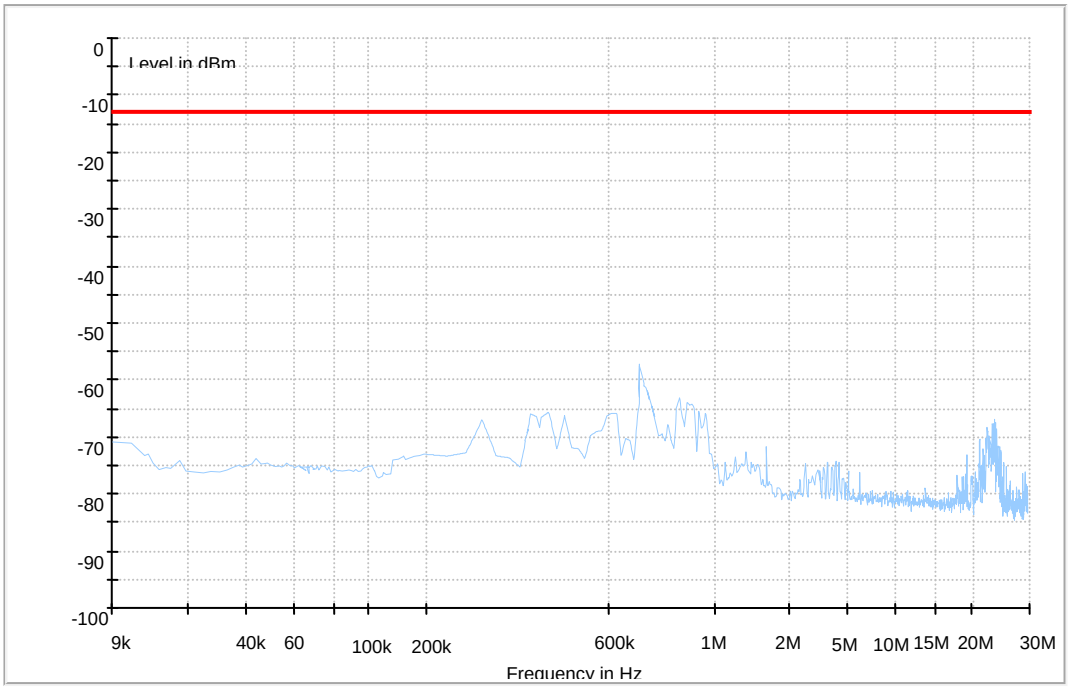


2.2 For UMTS

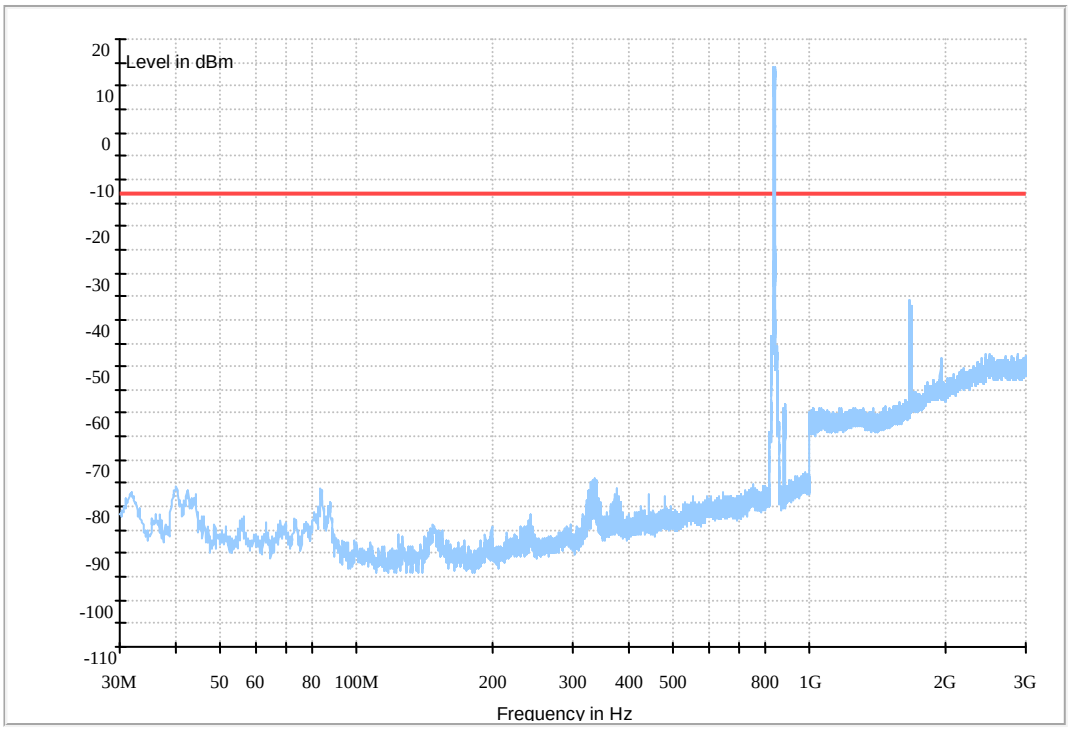
2.1.1Test Band=WCDA850

2.1.1.1 Test Mode = UMTS/TM1

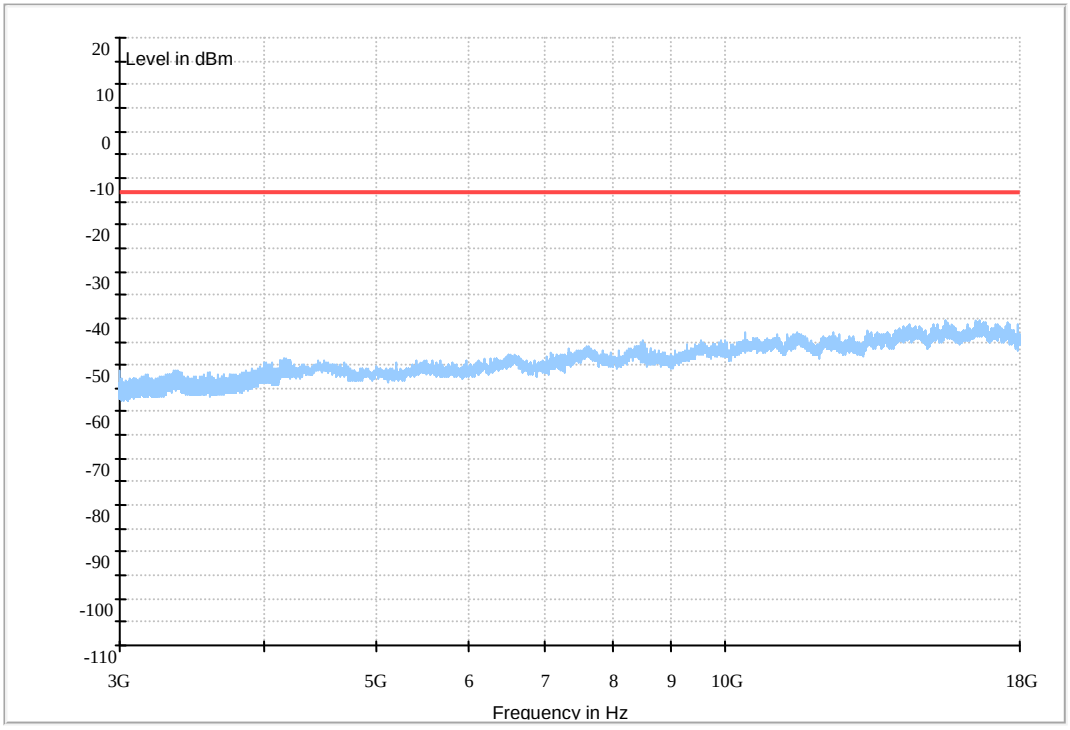
Traffic Mode (9kHz-30MHz)



Traffic Mode (30MHz-3GHz)



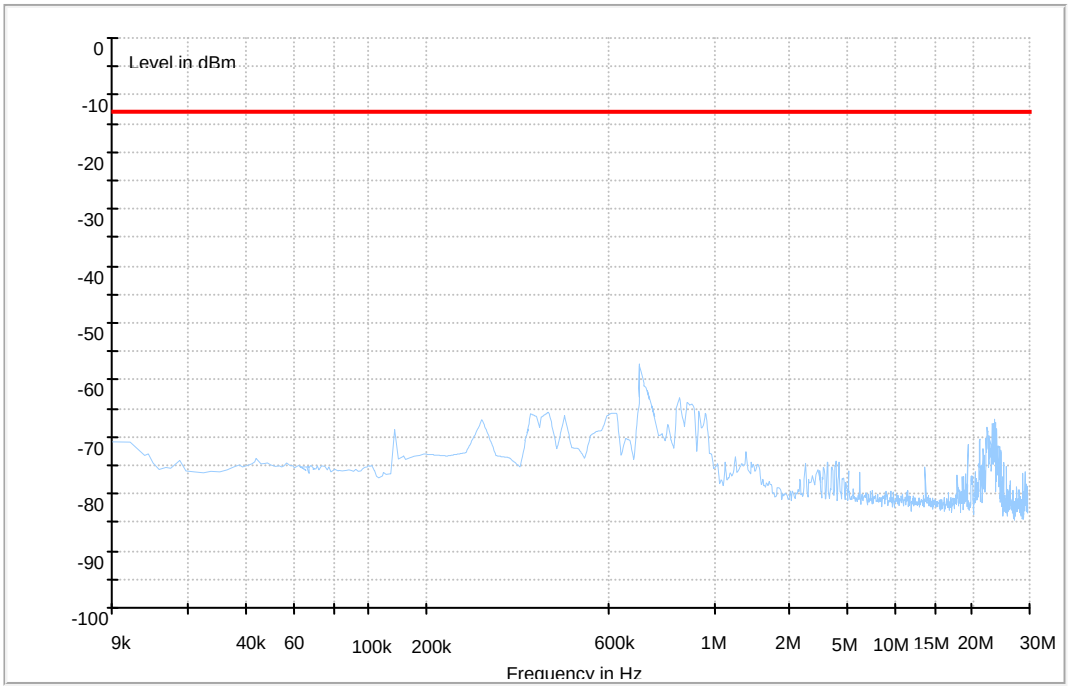
Traffic Mode (3GHz-18GHz)



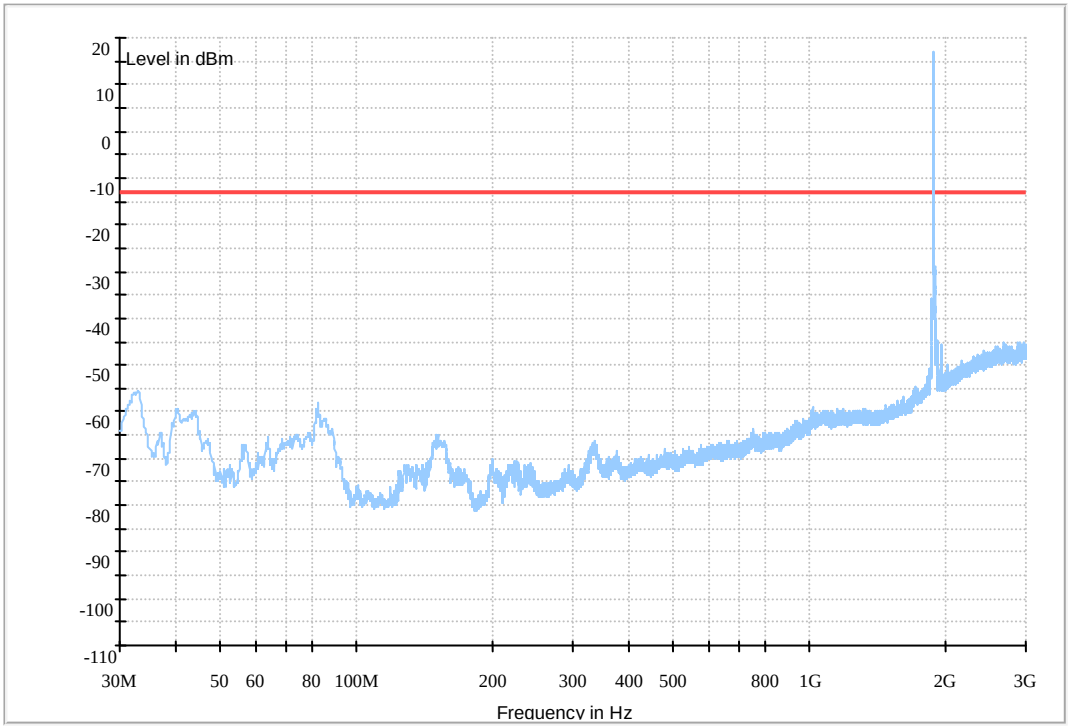
2.1.2Test Band=WCDA1900

2.1.2.1 Test Mode = UMTS/TM1

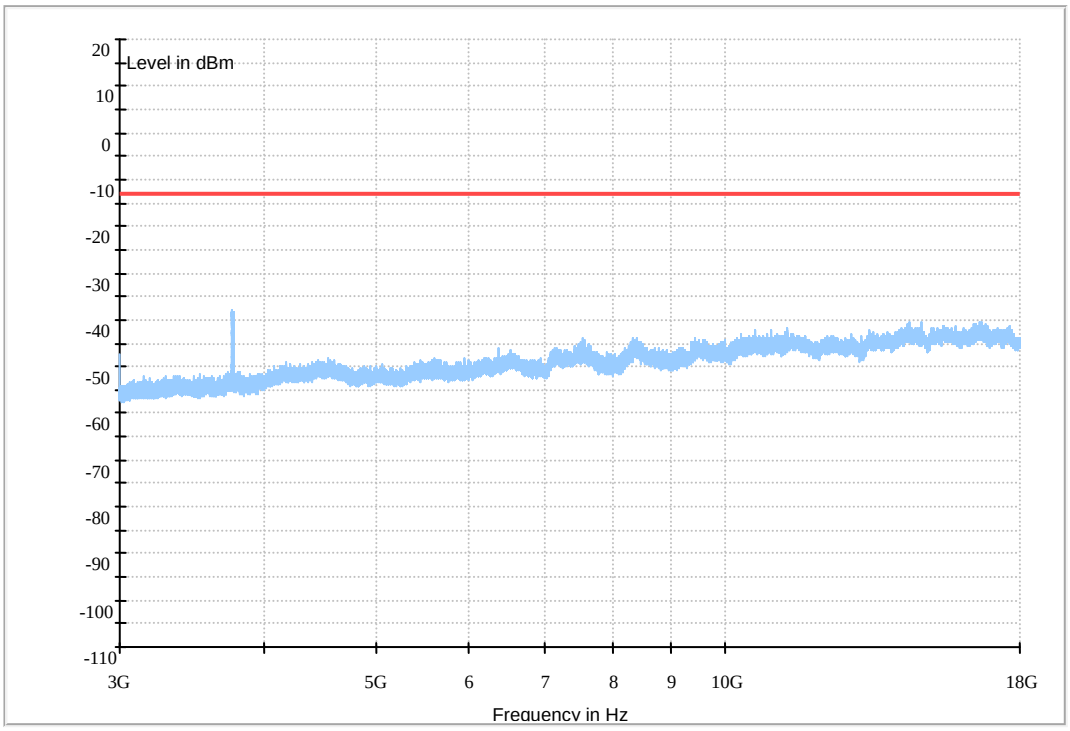
Traffic Mode (9kHz-30MHz)



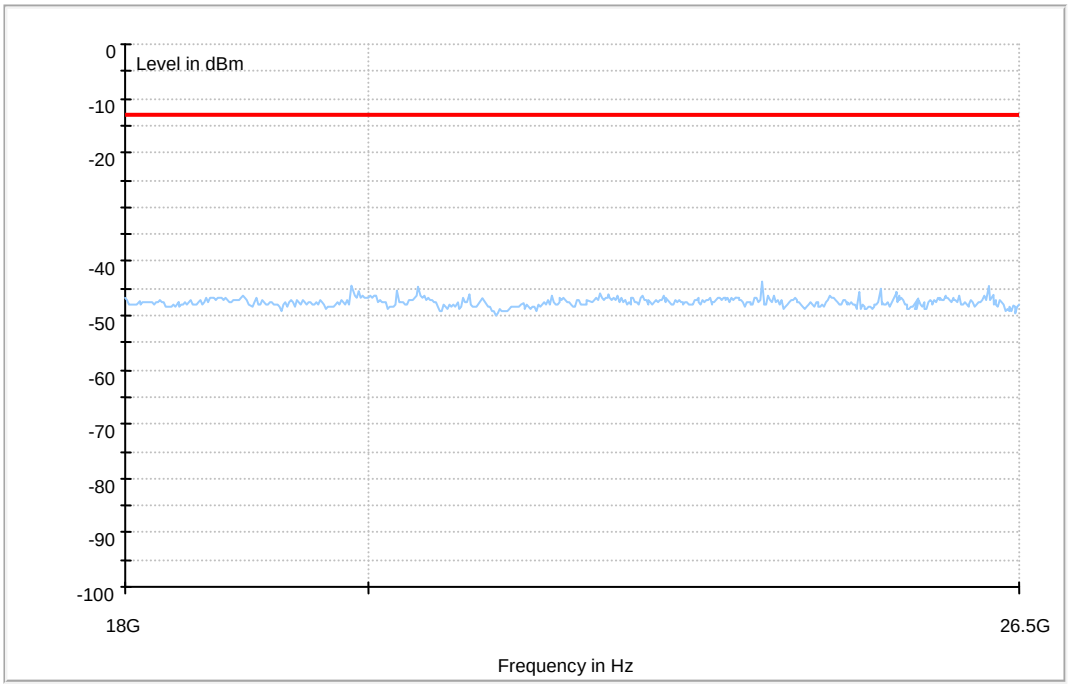
Traffic Mode (30MHz-3GHz)



Traffic Mode (3GHz-18GHz)



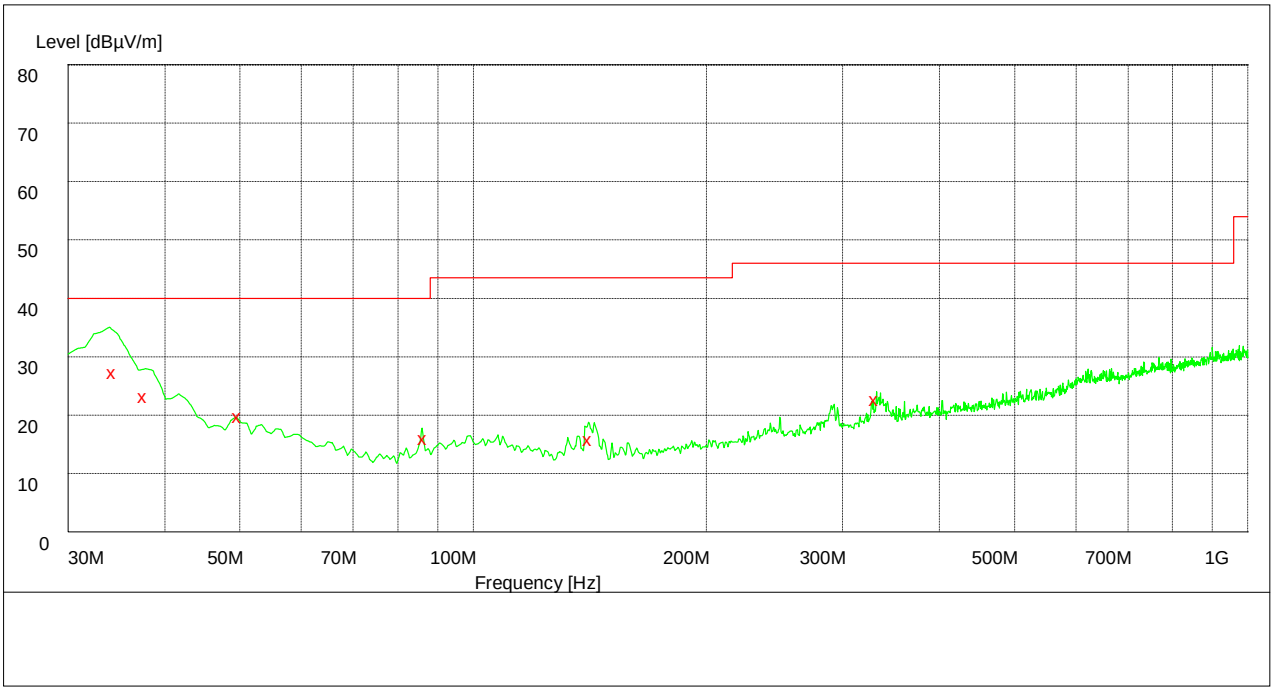
Traffic Mode (18GHz-26.5GHz)



3Appendix H: Receiver Spurious Emissions

This test was carried out in all the test modes. Here only the worst test result was shown.

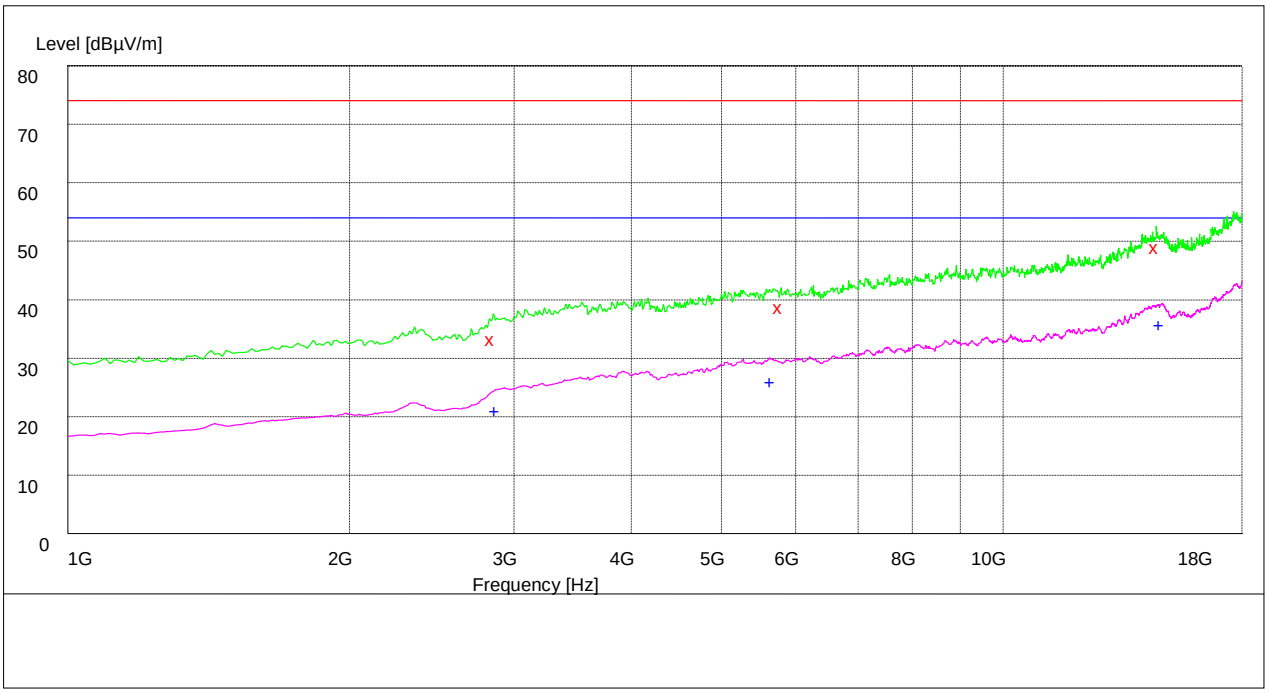
30MHz-1GHz



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
34.440000	29.20	15.0	40.0	10.8	103.0	114.00	VERTICAL
37.740000	25.00	15.2	40.0	15.0	103.0	232.00	VERTICAL
49.920000	21.60	15.1	40.0	18.4	126.0	206.00	VERTICAL
86.760000	17.90	11.4	40.0	22.1	103.0	59.00	VERTICAL
141.780000	17.70	10.0	43.5	25.8	103.0	163.00	VERTICAL
332.100000	24.70	16.1	46.0	21.3	100.0	240.00	HORIZONTAL

1GHz-18GHz



MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
2845.100000	35.10	-7.7	74.0	38.9	100.0	67.00	HORIZONTAL
5783.200000	40.60	-0.1	74.0	33.4	100.0	356.00	VERTICAL
14582.900000	50.80	16.5	74.0	23.2	100.0	136.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
2869.800000	22.70	-7.6	54.0	31.3	148.0	25.00	HORIZONTAL
5658.300000	27.60	-0.2	54.0	26.4	142.0	39.00	HORIZONTAL
14729.900000	37.50	16.7	54.0	16.5	121.0	209.00	VERTICAL

END