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Report No.: SZEM130600343104
Page: 1 of 89

PC II Change FCC REPORT

Application No: SZEM1306003431RF
Applicant: Huawei Technology Co., Ltd.
Manufacturer: IDT Technology Limited
Factory: IDT Technology Limited
Product Name: The Hub device
Mode No.(EUT): MU509-c
FCC ID: QISMU509C
Standards: 47 CFR Part 2 (2012)
47 CFR Part 22 subpart H (2012)
47 CFR Part 24 subpart E (2012)
Date of Receipt: 2013-07-19
Date of Test: 2013-07-25 to 2013-09-05
Date of Issue: 2013-10-25

Test Result:	PASS *
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. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

Test Item	FCC Requirement	Test method	Result
GSM 850, WCDMA 850(Band V)			
Conducted output power	Part 2.1046(a)/Part 22.913(a)	ITA-603-D-2010 Clause 2.2.1	PASS
Effective Radiated Power of Transmitter(ERP)	Part 2.1046(a)/Part 22.913(a)	ITA-603-D-2010 Clause 2.2.17	PASS
Modulation Characteristics	Part 2.1047	ITA-603-D-2010 Clause 2.2.3	N/A
99% Occupied Bandwidth	Part 2.1049(h)	Part 22.917(b)	N/A
Band Edge at antenna terminals	Part 2.1051/Part 22.917(a)	Part 22.917(b)	N/A
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 22.917(a)(b)	ITA-603-D-2010 Clause 2.2.13	PASS
Field strength of spurious radiation	Part 2.1053/ Part 2.1057/ Part 22.917(a)(b)	ITA-603-D-2010 Clause 2.2.12	PASS
Frequency stability	Part 2.1055/ Part 22.355	ITA-603-D-2010 Clause 2.2.2	N/A
GSM 1900,WCDMA 1900 (Band II)			
Conducted output power	Part 2.1046(a) /Part 24.232(c)	ITA-603-D-2010 Clause 2.2.1	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 24.232(c)	ITA-603-D-2010 Clause 2.2.17	PASS
Peak-Average Ratio	Part 2.1046/Part 24.232	/	N/A
Modulation Characteristics	Part 2.1047	ITA-603-D-2010 Clause 2.2.3	N/A
99% Occupied Bandwidth	Part 2.1049(h)	Part 24.238(b)	N/A
Band Edge at antenna terminals	Part 2.1051/ Part 24.238(a)	Part 24.238(b)	N/A
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	ITA-603-D-2010 Clause 2.2.13	PASS
Field strength of spurious radiation	Part 2.1053 /Part 2.1057 / Part 24.238(a)(b)	ITA-603-D-2010 Clause 2.2.12	PASS
Frequency stability	Part 2.1055/Part 24.235	ITA-603-D-2010 Clause 2.2.2	N/A



Remark:

This test report (Ref. No.: SZEM130600343107) is only valid with the original test report (Ref. No.: SYBH(Z-RF)019032013-2001.)

Review this report and original report, this report just change the antenna parameter part.

According to the declaration from the applicant, the models in this report are identical from original report and only difference with the module.

Considering to the difference, pre-scan were performed on the sample in this report to find the models which can be influential to the result in the original test report for fully retest.

Therefore in this report Conducted output power, Effective Radiated Power of Transmitter,

Spurious emissions at antenna terminals and Field strength of spurious radiation tests were fully retested on model AD802 and shown the data in this report, other tests please refer to original report

SYBH(Z-RF)019032013-2001.



3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	2
3 CONTENTS.....	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF EUT	5
4.3 TEST ENVIRONMENT AND MODE	6
4.4 DESCRIPTION OF SUPPORT UNITS	6
4.5 TEST LOCATION	6
4.6 TEST FACILITY	7
4.7 DEVIATION FROM STANDARDS	7
4.8 ABNORMALITIES FROM STANDARD CONDITIONS.....	7
4.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	7
4.10 EQUIPMENT LIST	8
5 TEST RESULTS AND MEASUREMENT DATA.....	11
5.1 CONDUCTED OUTPUT POWER.....	11
5.2 EFFECTIVE RADIATED POWER OF TRANSMITTER (ERP/EIRP)	14
5.3 SPURIOUS EMISSIONS AT ANTENNA TERMINALS.....	18
5.4 FIELD STRENGTH OF SPURIOUS RADIATION.....	67
6 PHOTOGRAPHS - EUT TEST SETUP.....	88
6.1 RADIATED SPURIOUS EMISSION TEST SETUP.....	88
7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	89

4 General Information

4.1 Client Information

Applicant:	Huawei Technology Co., Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	IDT Technology Limited
Address of Manufacturer:	Block C, 9/F., Kaiser Estate, Phase 1, 41 Man Yue Street, Hung Hom, Kowloon, Hong Kong.
Factory:	IDT Technology Limited
Address of Factory:	Chentian Industrial Estate Xixiang, BaoAn, Shenzhen, P.R.C.

4.2 General Description of EUT

Product Name:	The Hub device	
Model No.:	MU509-c	
Trade Mark:	Vignet	
Hardware Version:	V09	
Software Version:	V1.62	
IMEI:	354524040503352	
Frequency Band:	GSM 850: Tx:824.20 -848.80MHz;Rx: 869.20 – 893.80MHz GSM 1900: Tx:1850.20 – 1909.80MHz;Rx:1930.20 – 1989.80MHz WCDMA/HSDPA 850 Band V: Tx:826.40 -846.60MHz;Rx: 871.40 – 891.60MHz WCDMA/HSDPA 1900 Band II: Tx:1852.40 – 1907.60MHz;Rx:1932.40 – 1987.60MHz	
Type of Emission:	GSM/GPRS(GMSK):300KGXW EDGE(8PSK):300KG7W WCDMA(QPSK):4M20F9W	
Modulation Type:	GSM/GPRS Mode with GMSK Modulation EDGE Mode with 8-PSK Modulation WCDMA Mode with QPSK Modulation	
Power class:	5	
Sample Type:	fixed production	
Antenna Type:	Integral	
Antenna Gain:	850MHz: 0.53dBi, 900MHz: 0.64dBi, 1800MHz: 1.45dBi, 1900MHz: 1.53dBi	
Power Supply:	Adapter:	MODEL NO.:SCE0501500P INPUT:100-240V~50-60Hz 300mA OUTPUT:5V 1500mA
	Battery:	Li-Ion Battery, 3.7V 480mAh
Test Voltage:	AC 120V~ 60Hz	
DC cable:	141cm	

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4.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1010mbar

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
CMU200	R&S	N/A
DC power	N/A	N/A

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **VCCI**

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

4.10 Equipment List

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2014-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2014-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2014-05-16
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2013-11-10
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2013-11-10
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2013-11-10
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2014-5-16
8	Coaxial Cable	SGS	N/A	SEL0025	2014-05-29
9	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0091	2014-10-24
10	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0194	2014-10-24
11	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24



RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2014-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2014-05-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2014-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-10-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2014-05-16
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2014-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2014-05-29
10	Coaxial cable	SGS	N/A	SEL0189	2014-05-29
11	Coaxial cable	SGS	N/A	SEL0121	2014-06-12
12	Coaxial cable	SGS	N/A	SEL0178	2014-05-29
13	Band filter	Amindeon	82346	SEL0094	2014-05-16
14	Barometer	Chang Chun	DYM3	SEL0088	2014-05-24
15	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0091	2014-10-24
16	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0194	2014-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2014-05-16
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2014-10-24
19	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2014-10-24
20	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24

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RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2014-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2014-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2014-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2014-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2014-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2014-05-24
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2014-05-16
8	Band filter	amideon	82346	SEL0094	2014-05-16
9	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2014-10-24
10	POWER METER	R & S	NRVS	SEL0144	2014-10-24
11	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0091	2014-10-24
12	Universal radio communication tester	Rohde & Schwarz	CMU200	SEL0194	2014-10-24
13	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2014-05-16

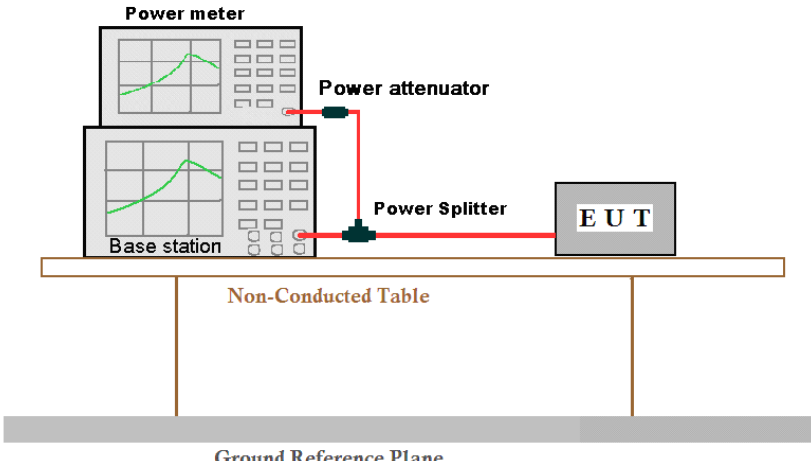
Note: The calibration interval is one year, all the instruments are valid.



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5 Test results and Measurement Data

5.1 Conducted Output Power

Test Requirement:	Part 2.1046(a) Part 22.913(a) Part 24.232(c)		
Test Method:	ITA-603-D-2010 Clause 2.2.1		
Test Setup:			
Limit:	Mode	GSM 850/WCDMA/HSDPA	GSM 1900/WCDMA/HSDPA
	Frequency	824 – 849MHz	1850 – 1910MHz
	Limit	38.45dBm (ERP)	33.01dBm (EIRP)
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.		
Instruments Used:	Refer to section 4.10 for details		
Test Results:	Pass		

**Measurement results:**

GSM ONLY 850				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
128/824.2	30.75	30.55	38.45	Pass
190/836.6	31.64	31.44	38.45	Pass
251/848.8	31.98	31.68	38.45	Pass
GPRS 850				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
128/824.2	30.73	30.53	38.45	Pass
190/836.6	31.69	31.39	38.45	Pass
251/848.8	31.91	31.61	38.45	Pass
EGPRS(GMSK) 850				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
128/824.2	30.71	30.51	38.45	Pass
190/836.6	31.61	31.41	38.45	Pass
251/848.8	31.97	31.67	38.45	Pass
EGPRS(8PSK) 850				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
128/824.2	25.67	25.47	38.45	Pass
190/836.6	26.32	26.12	38.45	Pass
251/848.8	26.67	26.37	38.45	Pass
WCDMA 850				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
4132/826.4	23.83	23.53	38.45	Pass
4182/836.4	22.76	22.46	38.45	Pass
4233/846.6	22.92	22.72	38.45	Pass



GSM 1900				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
512/1850.2	27.09	26.89	33.01	Pass
661/1880.0	26.88	26.68	33.01	Pass
810/1909.8	26.98	26.68	33.01	Pass
GPRS 1900				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
512/1850.2	27.07	26.87	33.01	Pass
661/1880.0	26.96	26.66	33.01	Pass
810/1909.8	26.95	26.65	33.01	Pass
EGPRS(GMSK) 1900				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
512/1850.2	27.05	26.85	33.01	Pass
661/1880.0	26.84	26.64	33.01	Pass
810/1909.8	26.92	26.62	33.01	Pass
EGPRS(8PSK) 1900				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
512/1850.2	23.84	23.64	33.01	Pass
661/1880.0	23.61	23.41	33.01	Pass
810/1909.8	23.69	23.39	33.01	Pass
WCDMA 1900				
Channel/fc(MHz)	Peak power (dBm)	AV power (dBm)	Limit (dBm)	Result
9262/1852.4	21.65	21.35	33.01	Pass
9400/1880.0	22.23	21.93	33.01	Pass
9538/1907.6	21.72	21.52	33.01	Pass

5.2 Effective Radiated Power of Transmitter (ERP/EIRP)

Test Requirement:	Part 2.1046(a) Part 22.913(a) Part 24.232(c)				
Test Method:	ITA-603-D-2010 Clause 2.2.17				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	peak	100 kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Test Setup:					

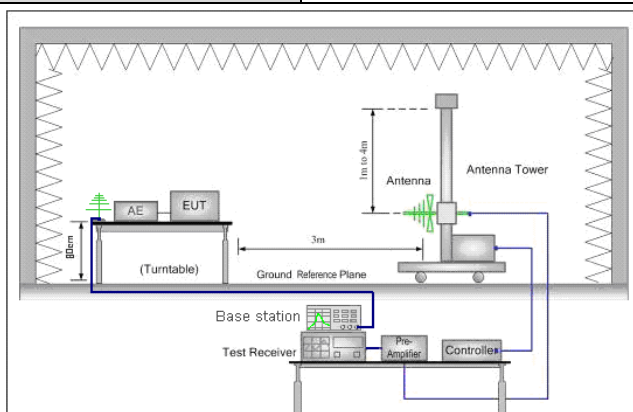


Figure 1. 30MHz to 1GHz

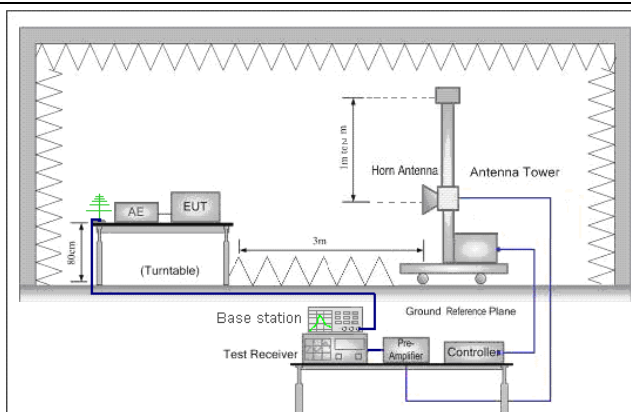


Figure 2. above 1GHz

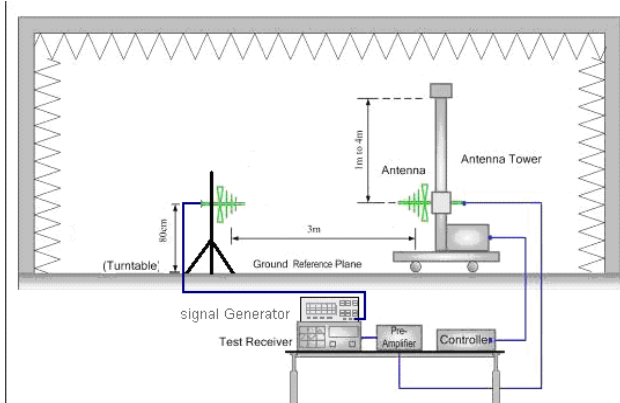


Figure 1. 30MHz to 1GHz

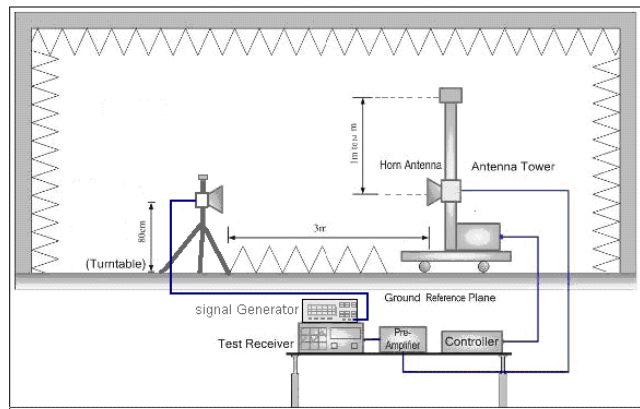


Figure 2. above 1GHz

Limit:			
	Mode	GSM 850/WCDMA/HSDPA	GSM 1900/WCDMA/HSDPA
	Frequency	824 – 849MHz	1850 – 1910MHz
	Limit	38.45dBm (7W)	33.01dBm (2W)

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Measurement Procedure:	Below 1GHz test procedure as below: 1). The EUT was powered ON and placed on a 0.8m high table in the chamber. The antenna of the transmitter was extended to its maximum length. 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made. 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization. 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter. 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions. 6). The output power into the substitution antenna was then measured. 7). Steps 5) and 6) were repeated with both antennas polarized. 8). Calculate power in dBm by the following formula: $\text{ERP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBd)}$where: Pg is the generator output power into the substitution antenna. Above 1GHz test procedure as below: 1). Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber 2). Calculate power in dBm by the following formula: $\text{EIRP(dBm)} = \text{Pg(dBm)} - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$\text{EIRP} = \text{ERP} + 2.15\text{dB}$where: Pg is the generator output power into the substitution antenna. 3). Test the EUT in the lowest channel, the middle channel the Highest channel 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report. 5). Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



Measurement Data

GSM 850								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	ERP (dBm)	Limit (dBm)
128	824.2	30.55	5.40	3.31	H	H	32.64	38.50
		30.42	5.40	3.31		V	32.51	38.50
190	836.6	31.44	4.60	3.35	H	H	32.69	38.50
		31.21	4.60	3.35		V	32.46	38.50
251	848.8	31.68	4.80	3.41	H	H	33.07	38.50
		31.55	4.80	3.41		V	32.94	38.50

GSM 1900								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	EIRP (dBm)	Limit (dBm)
512	1850.2	26.89	8.40	5.42	H	H	29.87	33.00
		26.78	8.40	5.42		V	29.76	33.00
661	1880	26.68	8.80	5.56	H	H	29.92	33.00
		26.55	8.80	5.56		V	29.79	33.00
810	1909.8	26.68	9.20	5.50	H	H	30.38	33.00
		26.43	9.20	5.50		V	30.13	33.00

GPRS 850								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	ERP (dBm)	Limit (dBm)
128	824.2	30.52	5.40	3.31	H	H	32.61	38.50
		30.43	5.40	3.31		V	32.52	38.50
190	836.6	31.43	4.60	3.35	H	H	32.68	38.50
		31.23	4.60	3.35		V	32.48	38.50
251	848.8	31.67	4.80	3.41	H	H	33.06	38.50
		31.60	4.80	3.41		V	32.99	38.50

GPRS 1900								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	EIRP (dBm)	Limit (dBm)
512	1850.2	26.85	8.40	5.42	H	H	29.83	33.00
		26.81	8.40	5.42		V	29.79	33.00
661	1880	26.64	8.80	5.56	H	H	29.88	33.00
		26.65	8.80	5.56		V	29.89	33.00
810	1909.8	26.62	9.20	5.50	H	H	30.32	33.00
		26.61	9.20	5.50		V	30.31	33.00

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EGPRS 850								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	ERP (dBm)	Limit (dBm)
128	824.2	25.47	5.40	3.31	H	H	27.56	38.50
		24.55	5.40	3.31		V	26.64	38.50
190	836.6	26.12	4.60	3.35	H	H	27.37	38.50
		26.08	4.60	3.35		V	27.33	38.50
251	848.8	26.37	4.80	3.41	H	H	27.76	38.50
		26.28	4.80	3.41		V	27.67	38.50

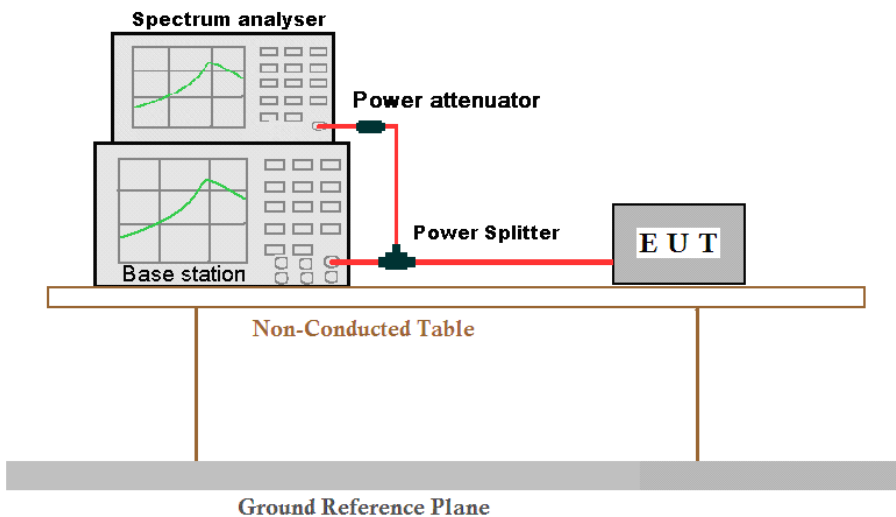
EGPRS 1900								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	EIRP (dBm)	Limit (dBm)
512	1850.2	23.64	8.40	5.42	H	H	26.62	33.00
		23.51	8.40	5.42		V	26.49	33.00
661	1880	23.41	8.80	5.56	H	H	26.65	33.00
		23.30	8.80	5.56		V	26.54	33.00
810	1909.8	23.39	9.20	5.50	H	H	27.09	33.00
		23.36	9.20	5.50		V	27.06	33.00

WCDMA 850								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	ERP (dBm)	Limit (dBm)
4132	826.4	23.53	5.40	3.31	H	H	25.62	38.50
		23.51	5.40	3.31		V	25.60	38.50
4182	836.4	22.46	4.60	3.35	H	H	23.71	38.50
		22.44	4.60	3.35		V	23.69	38.50
4233	846.6	22.75	4.80	3.41	H	H	24.14	38.50
		22.72	4.80	3.41		V	24.11	38.50

WCDMA 1900								
CH	Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EUT polarize	Antenna polarize	EIRP (dBm)	Limit (dBm)
9262	1852.4	21.35	8.40	5.42	H	H	24.33	33.00
		21.31	8.40	5.42		V	24.29	33.00
9400	1880.0	21.94	8.80	5.56	H	H	25.18	33.00
		21.90	8.80	5.56		V	25.14	33.00
9538	1907.6	21.54	9.20	5.50	H	H	25.24	33.00
		21.51	9.20	5.50		V	25.21	33.00

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5.3 Spurious emissions at antenna terminals

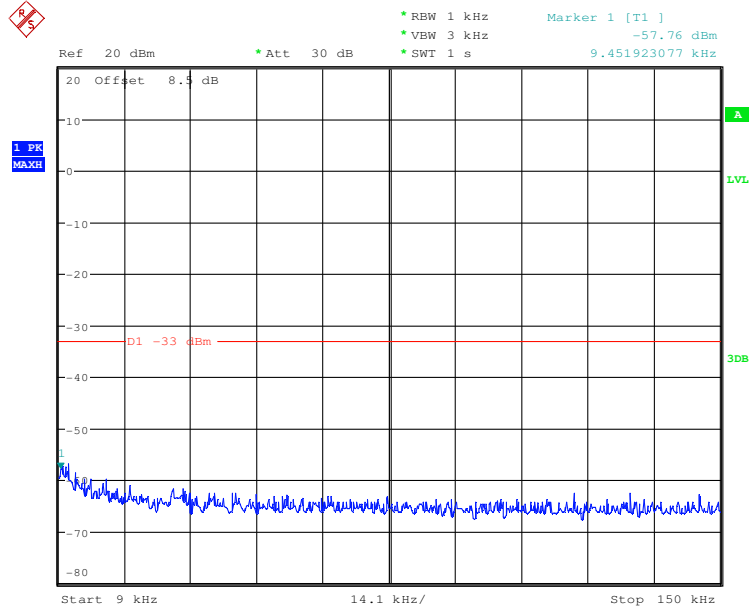
Test Requirement:	Part 2.1051 , Part 2.1057 , Part 22.1051 and Part 24.238
Test Method:	ITA-603-D-2010 Clause 2.2.13
Test Setup:	
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).the equipment operates below 10GHz: to the tenth harmonic of the highest fundamental frequency or to 40GHz.whichever is lower, the resolution bandwidth of the spectrum analyzer was set at 100kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.the video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to mean or average power.
Instruments Used:	Refer to section 4.10 for details
Limit:	Attenuated at least $43+10\log(P)$
Test Results:	Pass



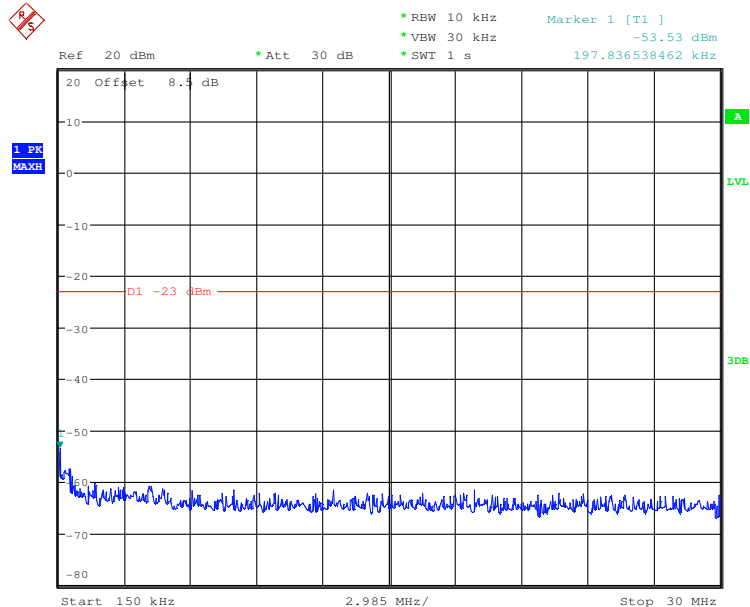
Test plot as follows:

Test mode:	GSM850	Test channel:	Lowest/128	Operation Frequency	824.2MHz
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9KHz~150KHz

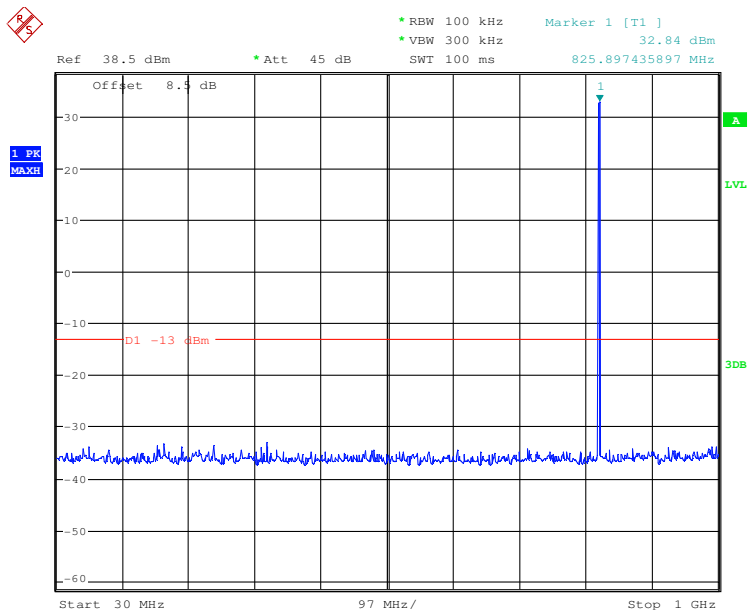


150KHz~30MHz

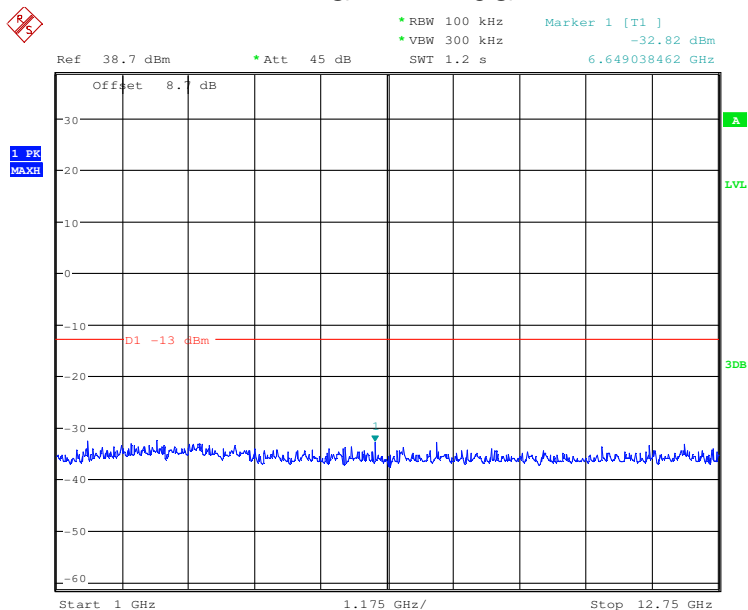


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30MHz~1GHz



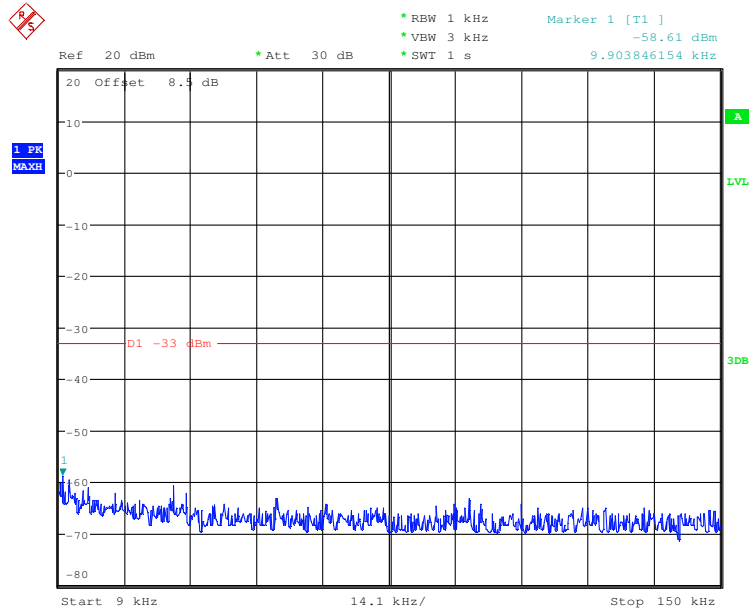
1GHz~12.75GHz



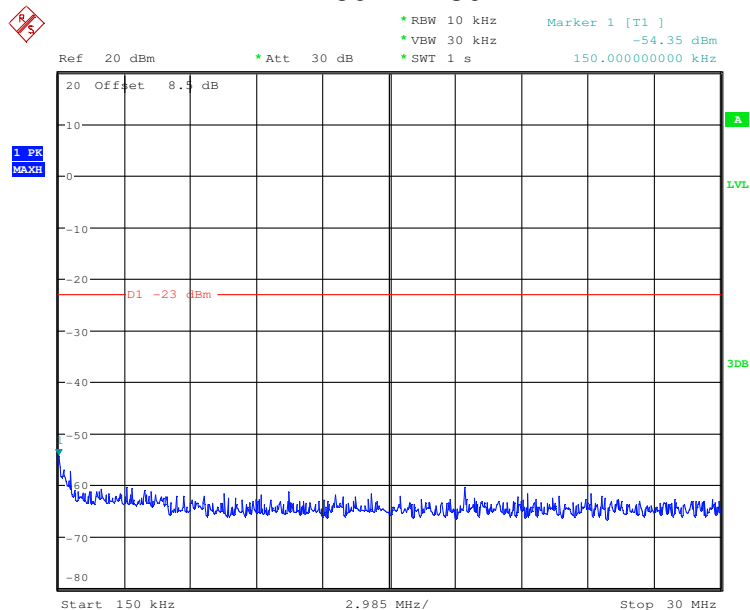


Test mode:	GSM850	Test channel:	Middle/190	Operation Frequency	836.6MHz
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9KHz~150KHz



150KHz~30MHz



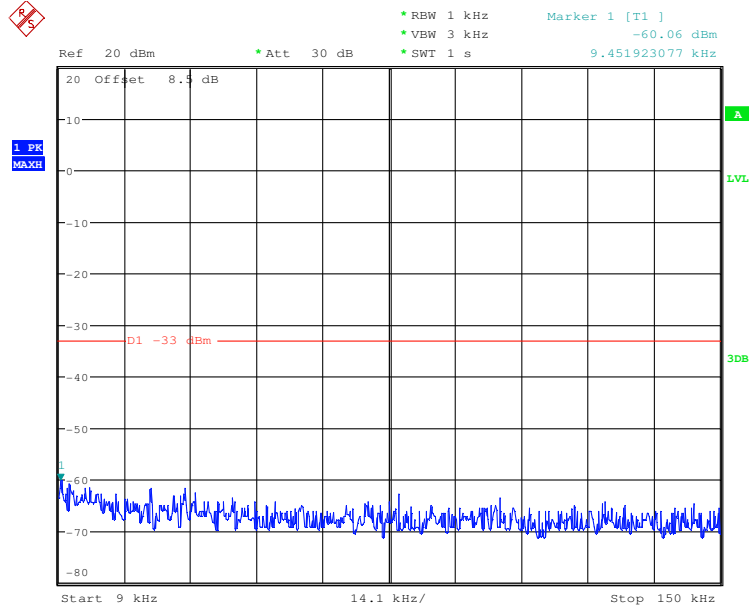
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SGS-CSTC Standards Technical Services Ltd.

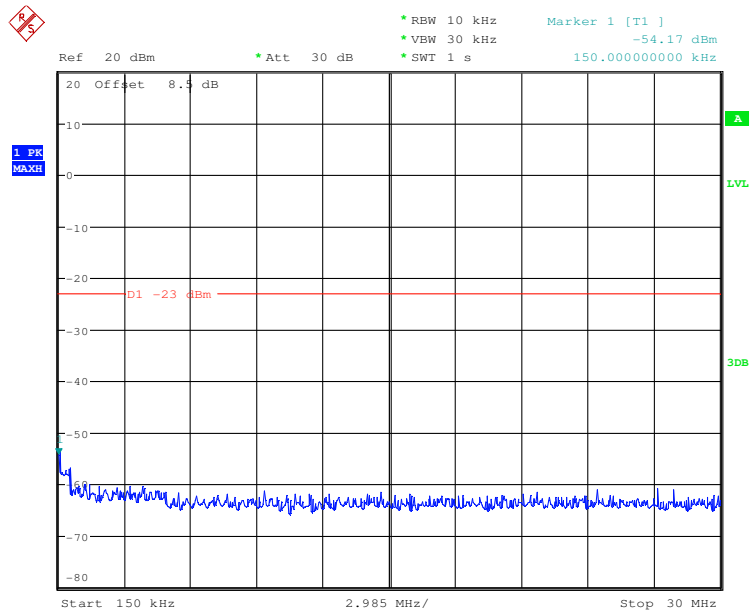


Test mode:	GSM850	Test channel:	High/251	Operation Frequency	848.8MHz
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9KHz~150KHz



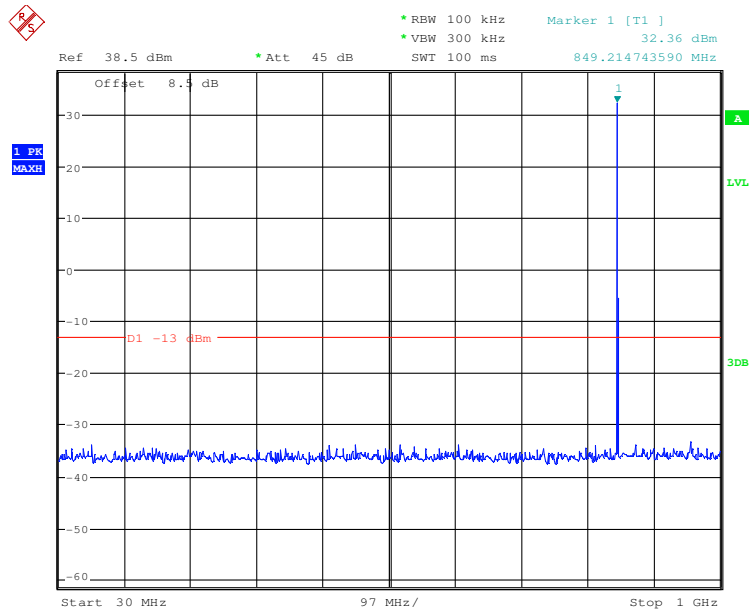
150KHz~30MHz



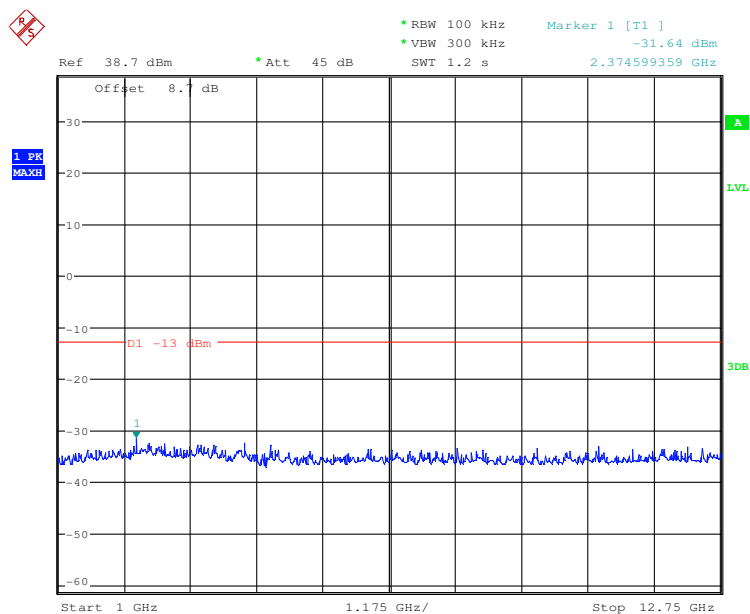
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30MHz~1GHz



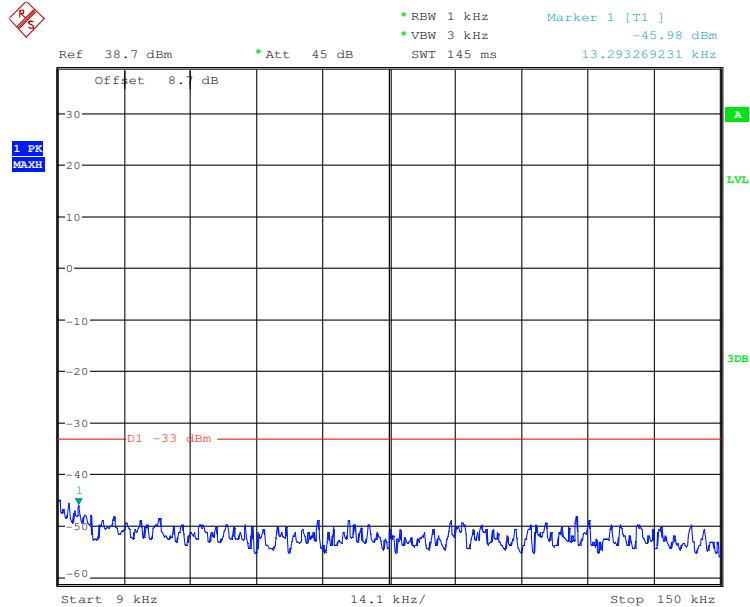
1GHz~12.75GHz



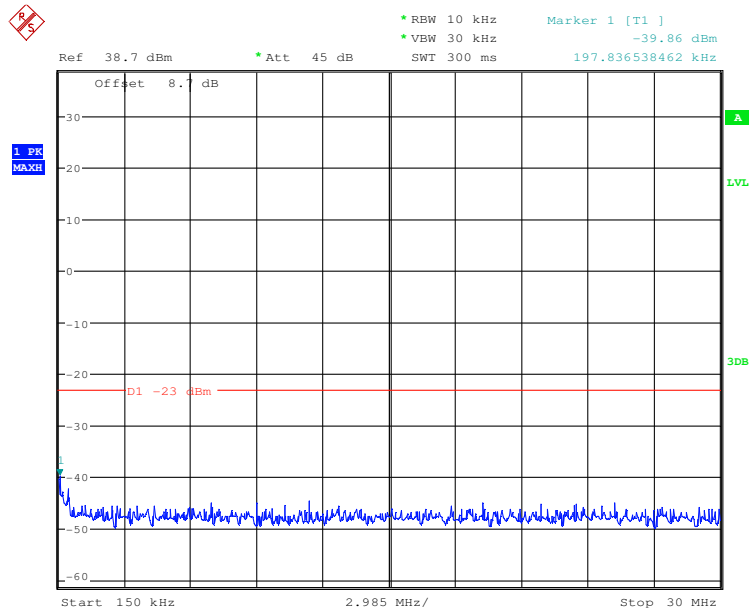


Test mode:	GPRS850	Test channel:	Lowest/128	Operation Frequency	824.2MHz
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9KHz~150KHz



150KHz~30MHz



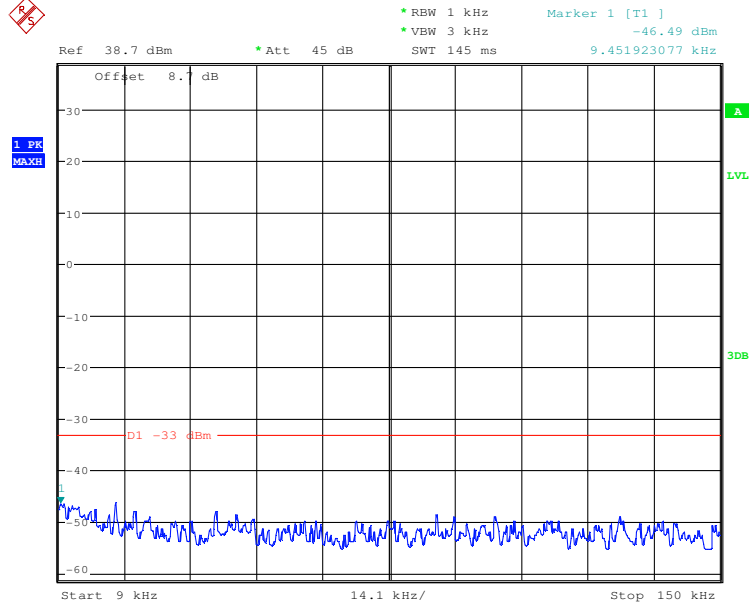
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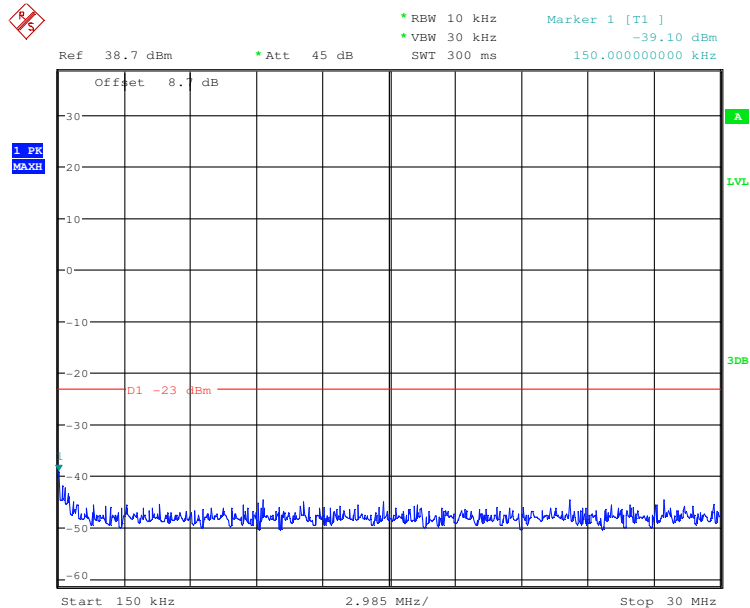


Test mode:	GPRS850	Test channel:	Middle/190	Operation Frequency	836.6MHz
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9KHz~150KHz



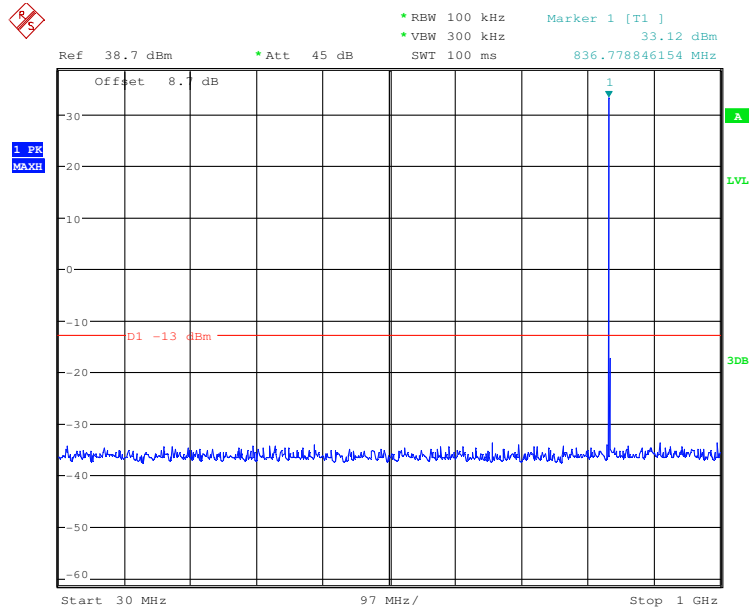
150KHz~30MHz



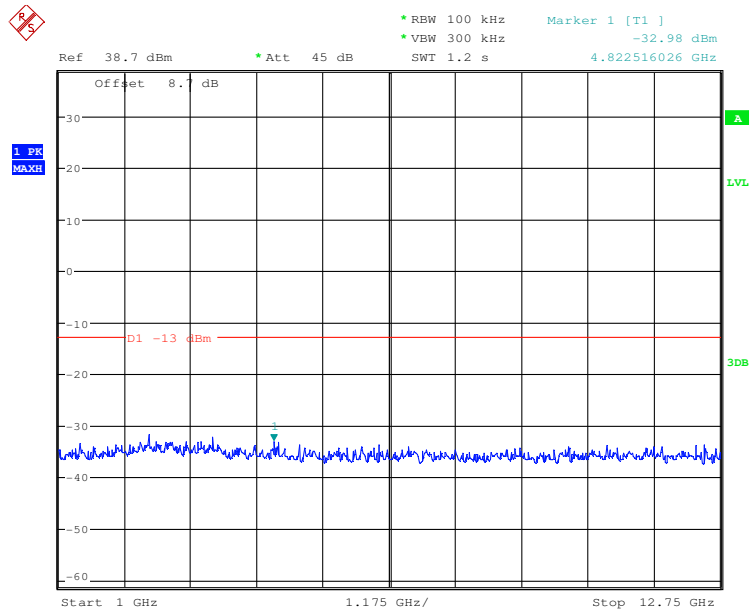
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30MHz~1GHz



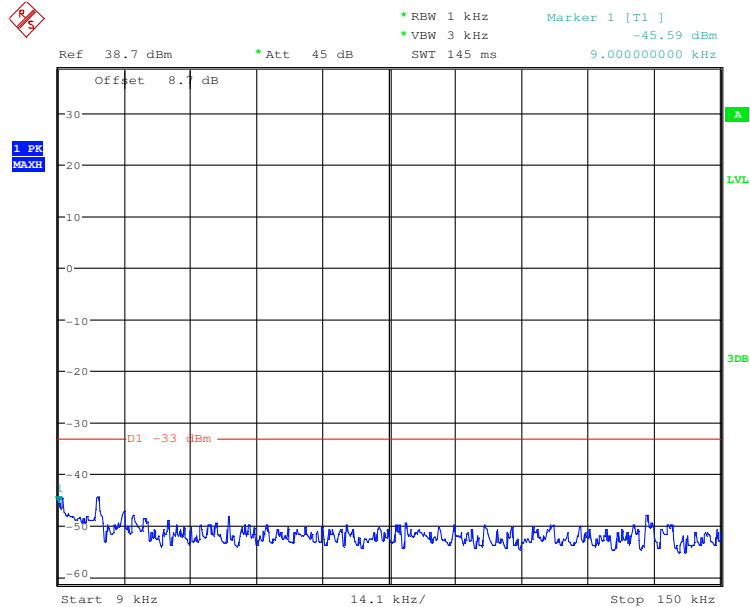
1GHz~12.75GHz



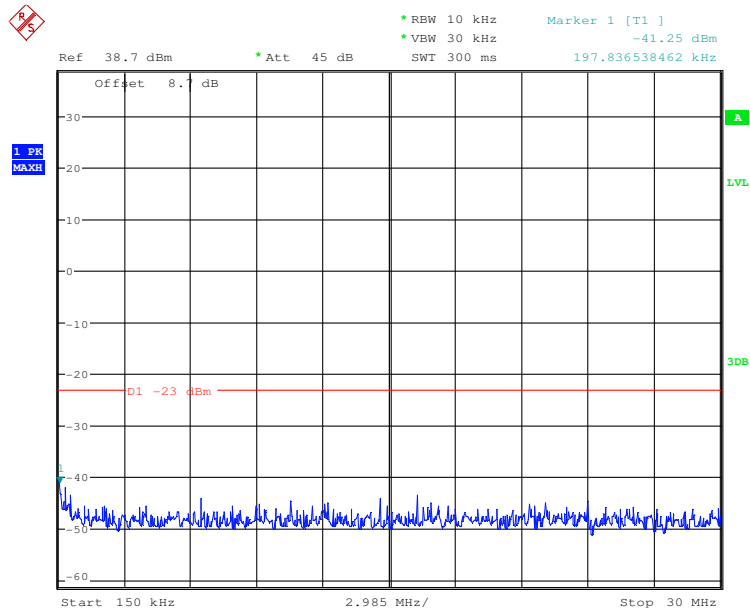


Test mode:	GPRS850	Test channel:	High/251	Operation Frequency	848.8MHz
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9KHz~150KHz



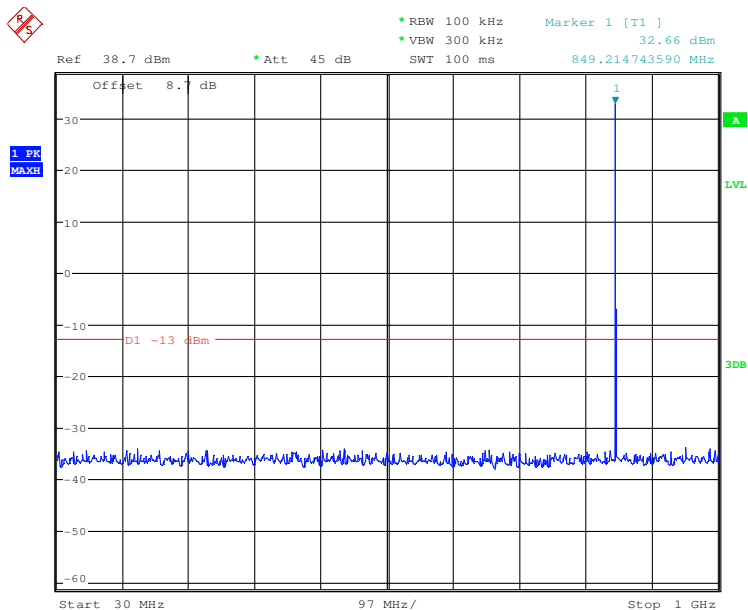
150KHz~30MHz



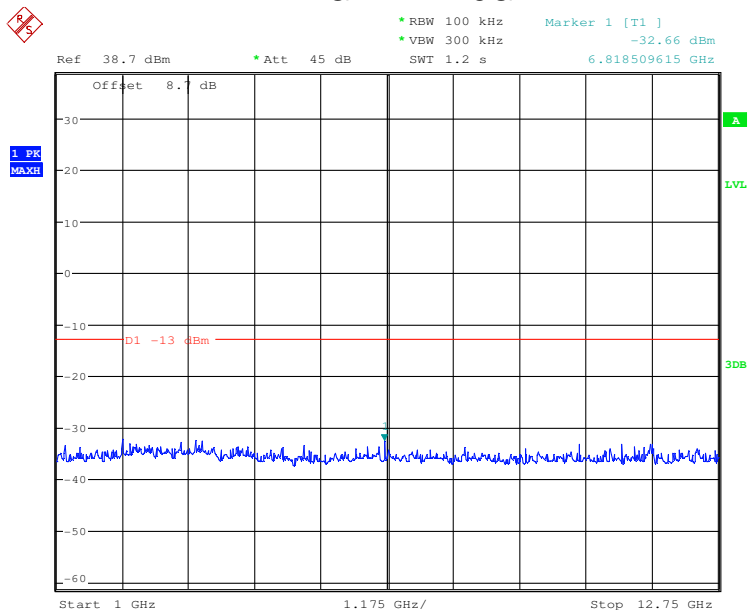
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30MHz~1GHz



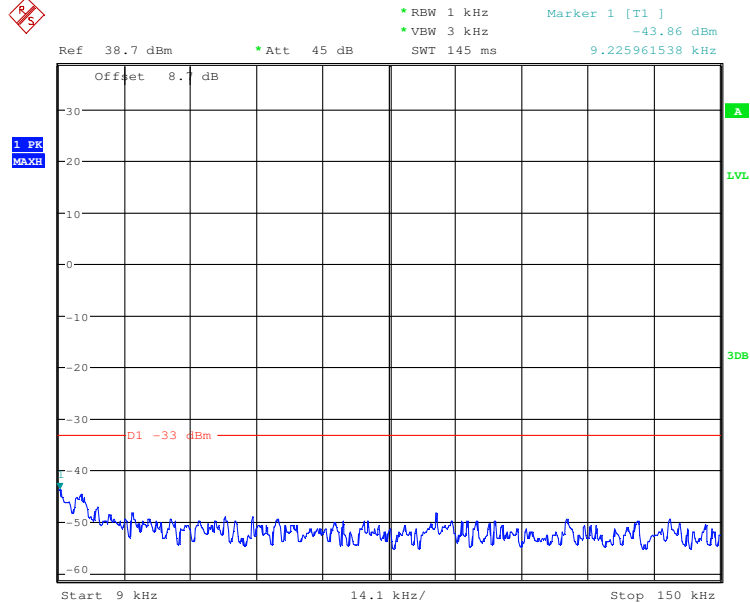
1GHz~12.75GHz



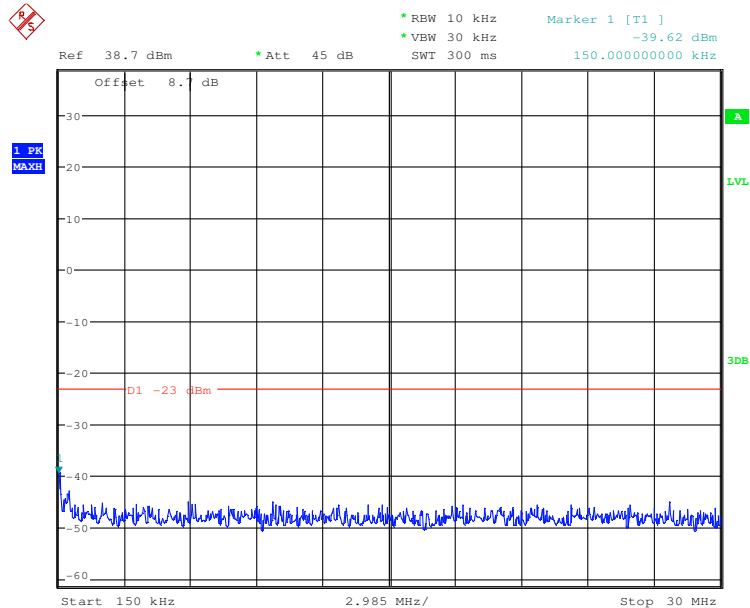


Test mode:	EGPRS(8PSK)850	Test channel:	Lowest/128	Operation Frequency	824.2MHz
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9KHz~150KHz



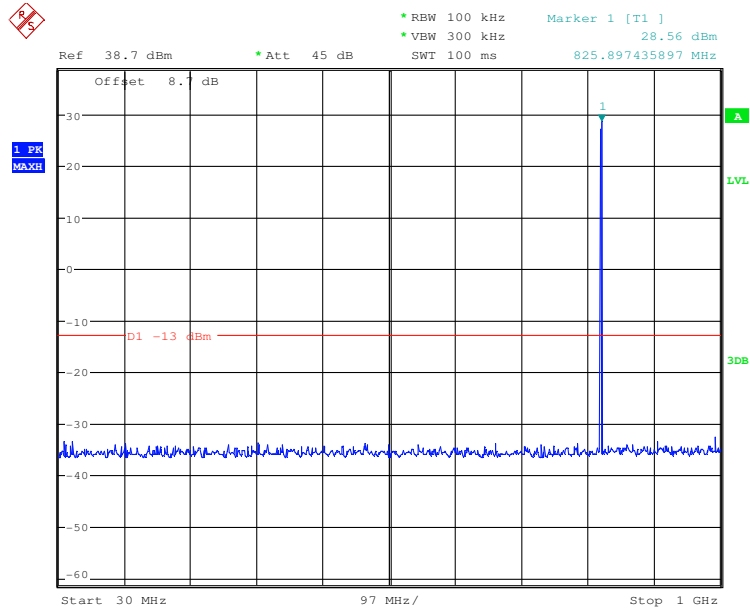
150KHz~30MHz



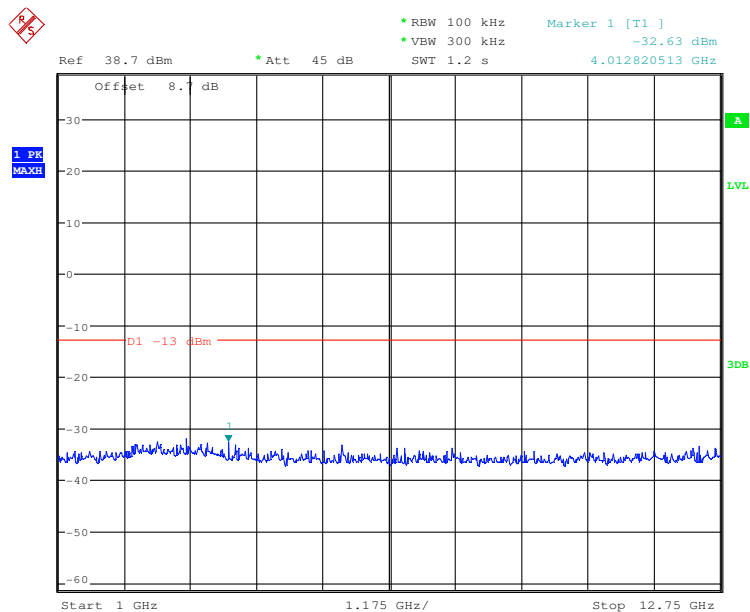
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30MHz~1GHz



1GHz~12.75GHz

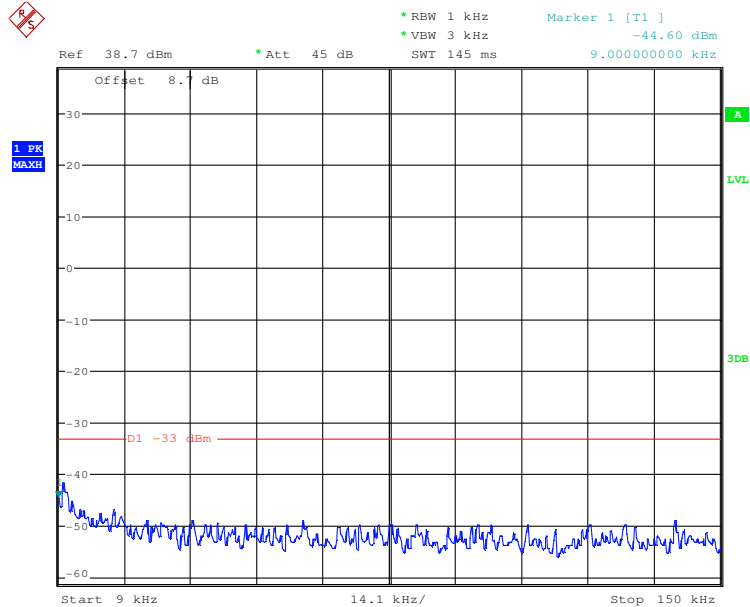


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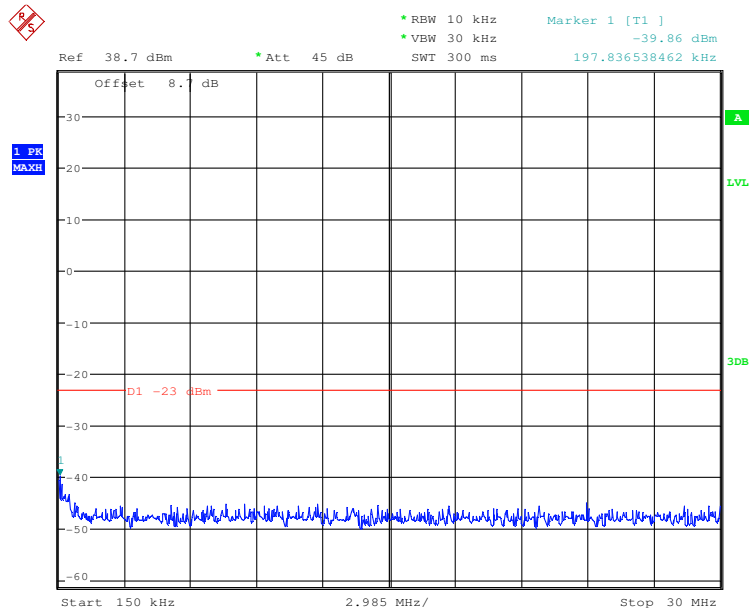


Test mode:	EGPRS(8PSK)	Test channel:	Middle/190	Operation Frequency	836.6MHz
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9KHz~150KHz

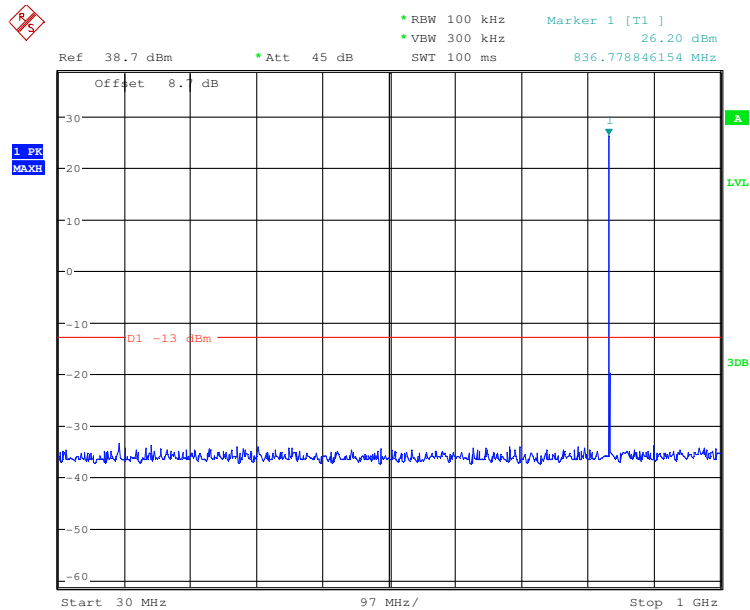


150KHz~30MHz

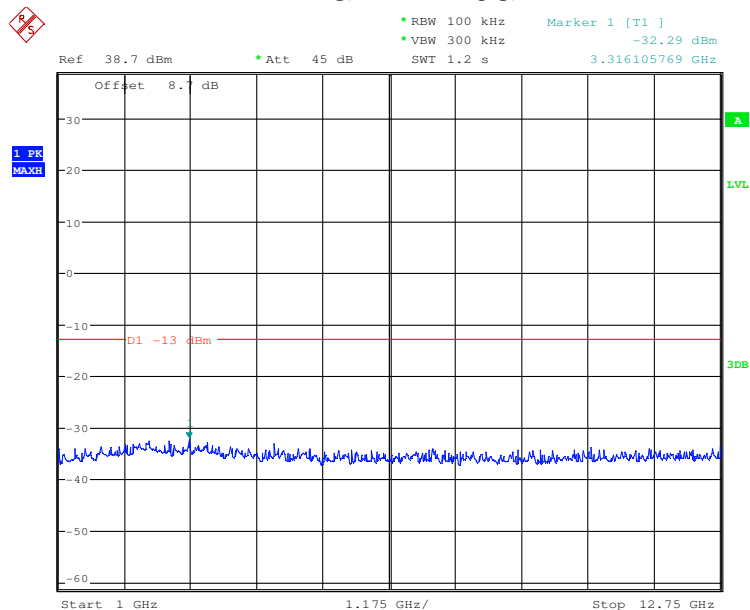




30MHz~1GHz



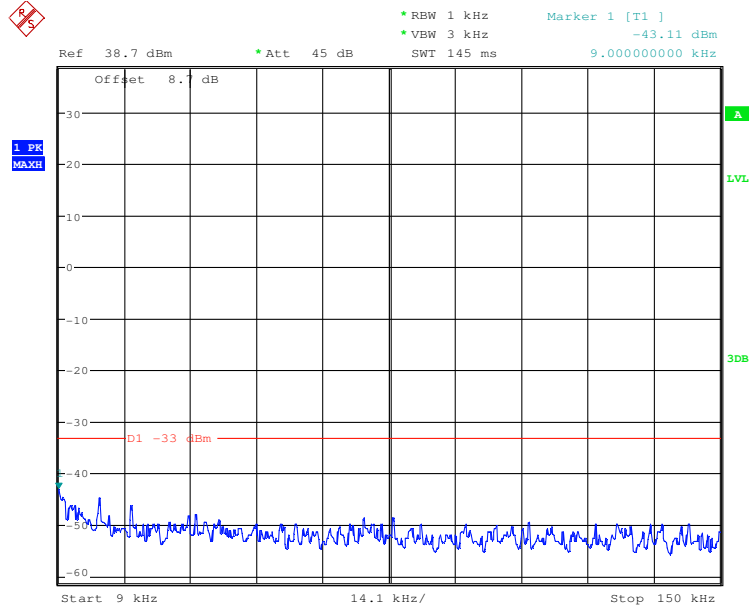
1GHz~12.75GHz



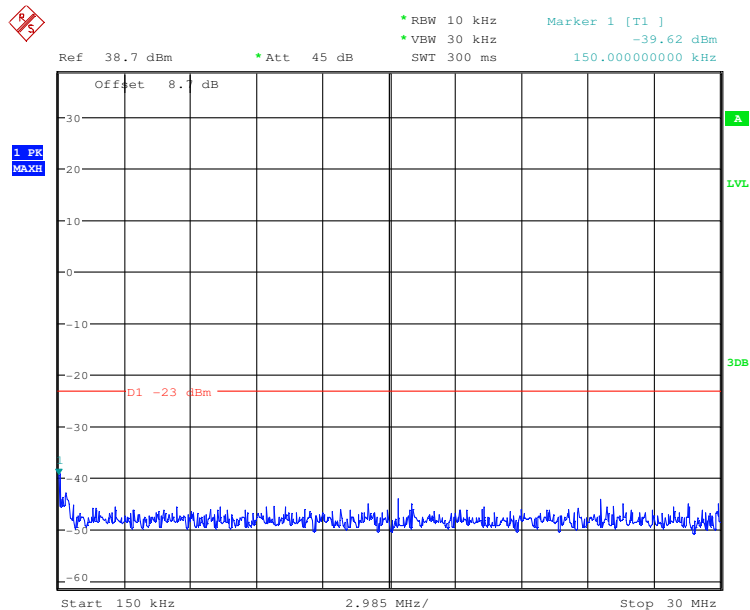


Test mode:	EGPRS(8PSK)	Test channel:	High/251	Operation Frequency	848.8MHz
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9KHz~150KHz



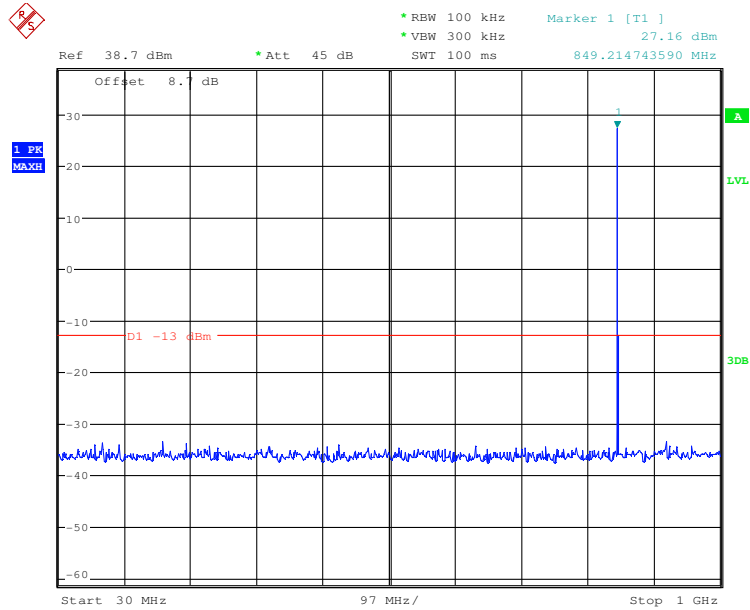
150KHz~30MHz



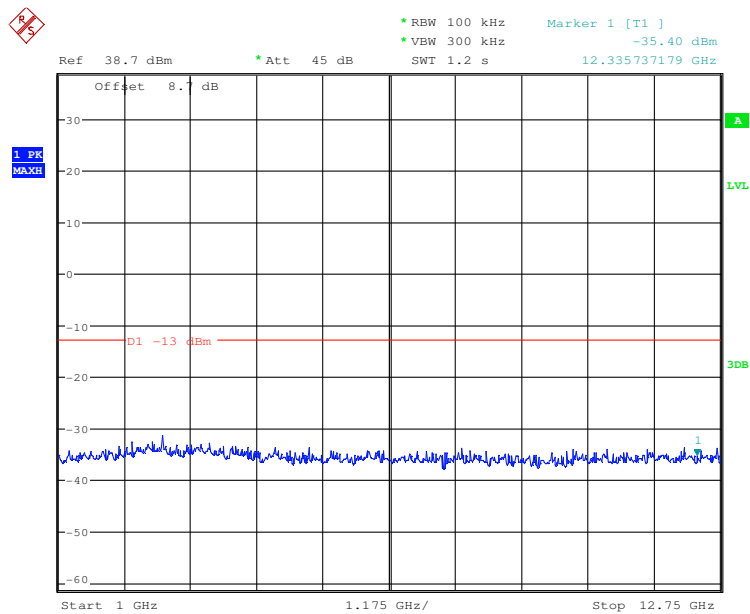
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30MHz~1GHz



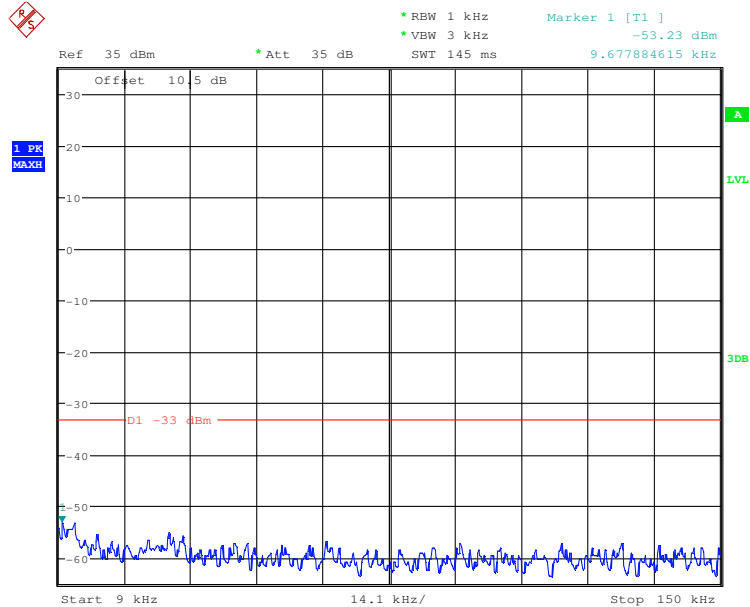
1GHz~12.75GHz



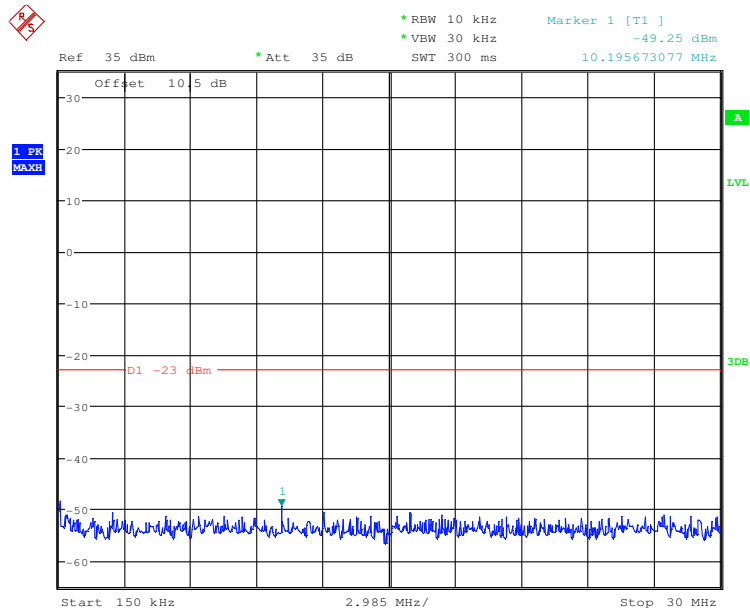


Test mode:	WCDMA850	Test channel:	Lowest/4132	Operation Frequency	826.4MHz
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9KHz~150KHz



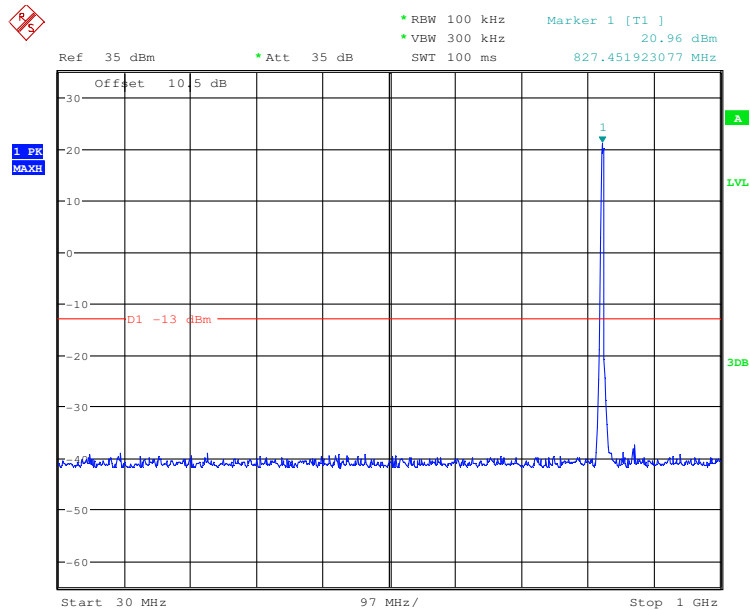
150KHz~30MHz



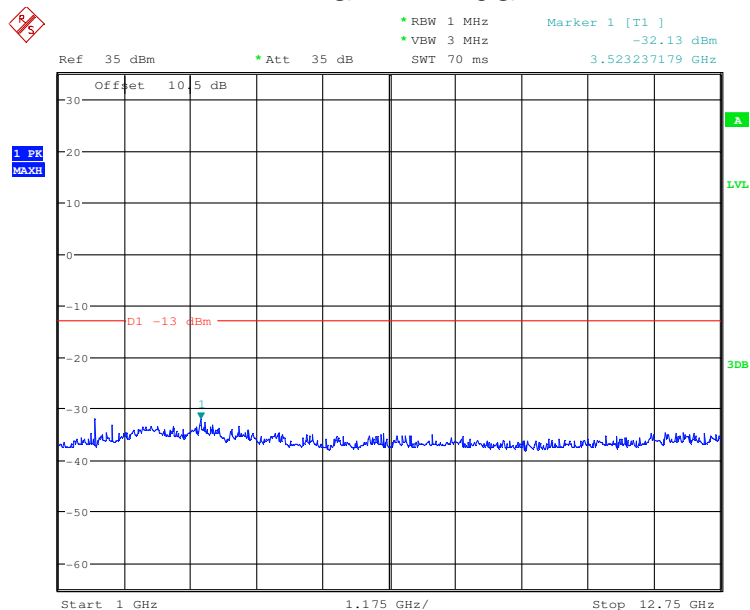
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30MHz~1GHz



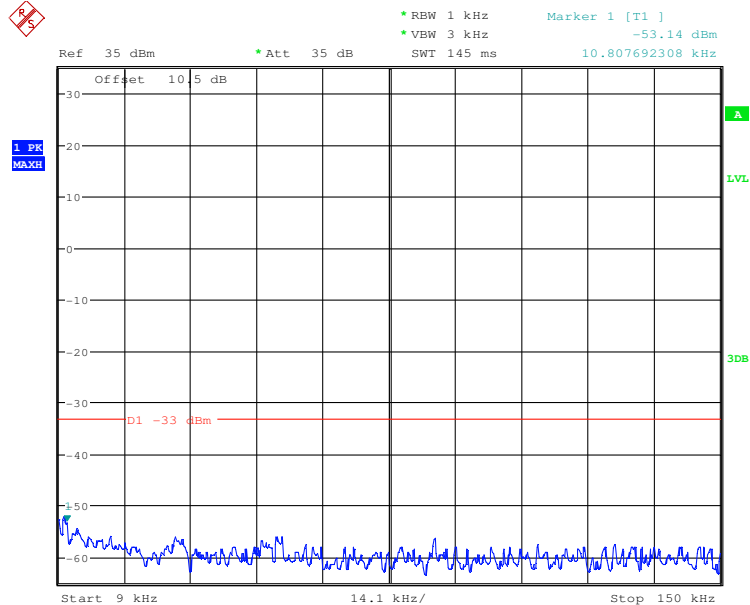
1GHz~12.75GHz



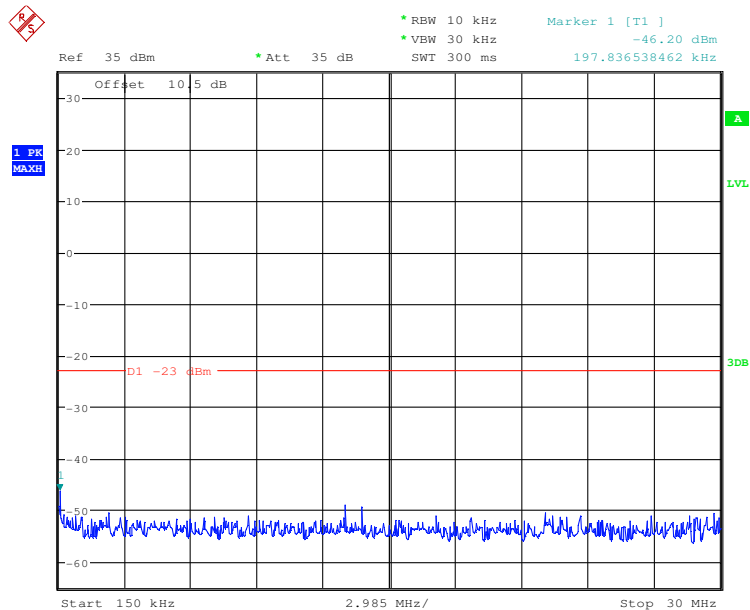


Test mode:	WCDMA850	Test channel:	Middle/4182	Operation Frequency	836.6MHz
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9KHz~150KHz

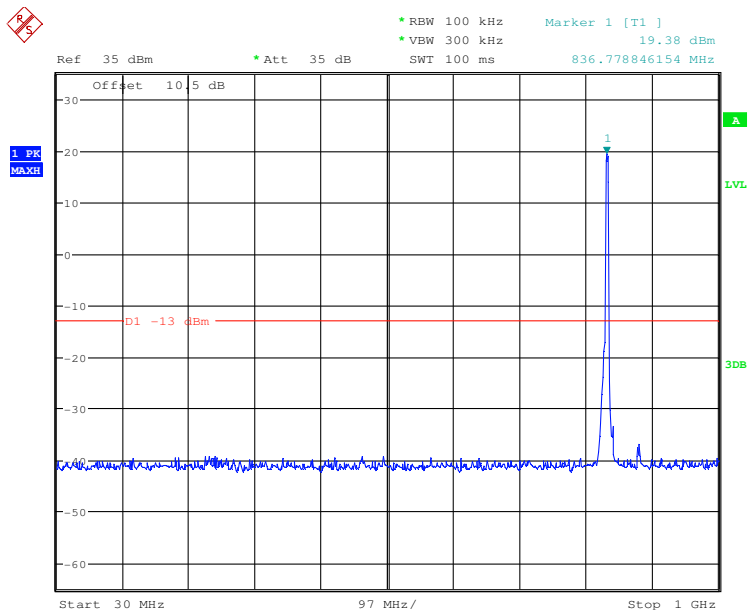


150KHz~30MHz

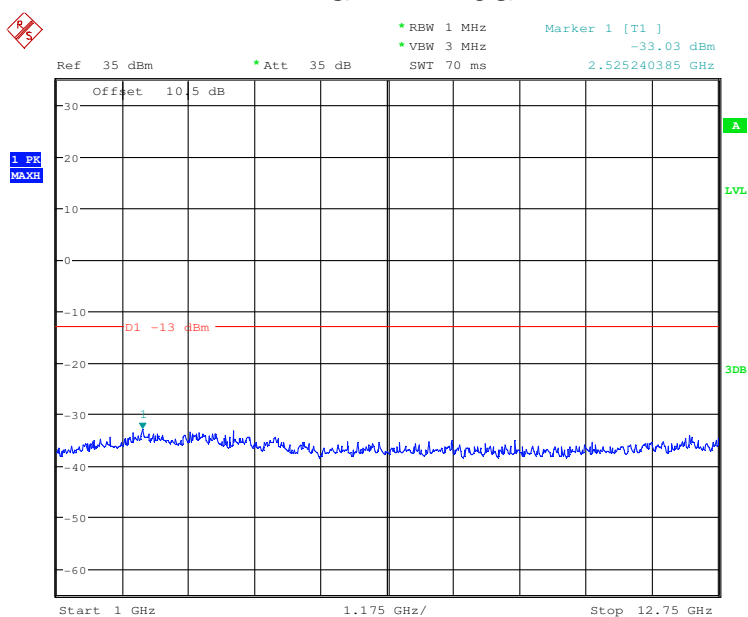




30MHz~1GHz



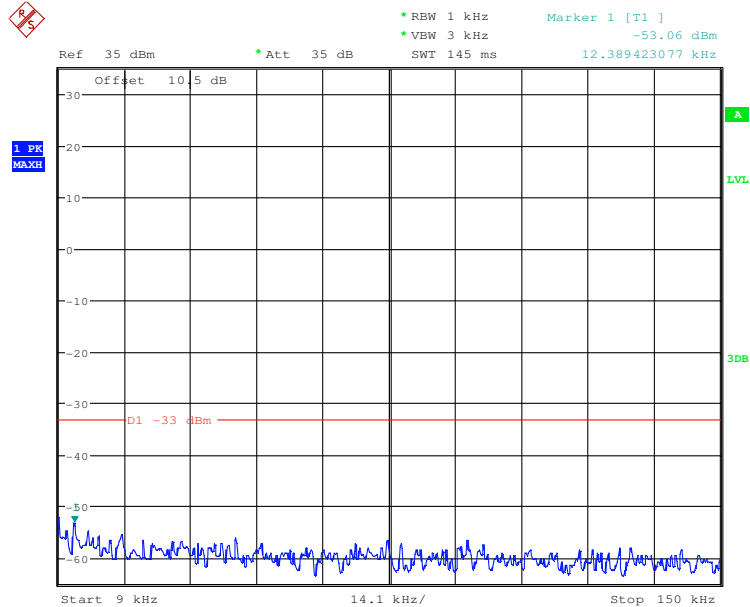
1GHz~12.75GHz



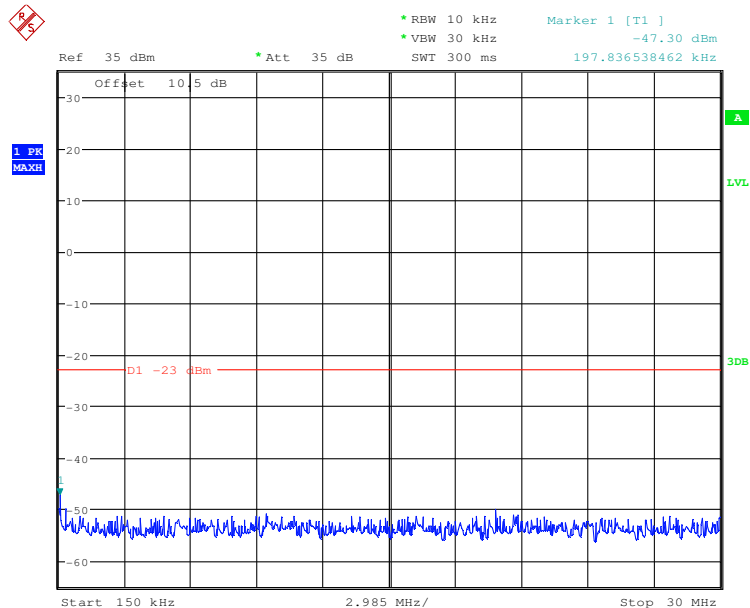


Test mode:	WCDMA850	Test channel:	High/4233	Operation Frequency	846.6MHz
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9KHz~150KHz



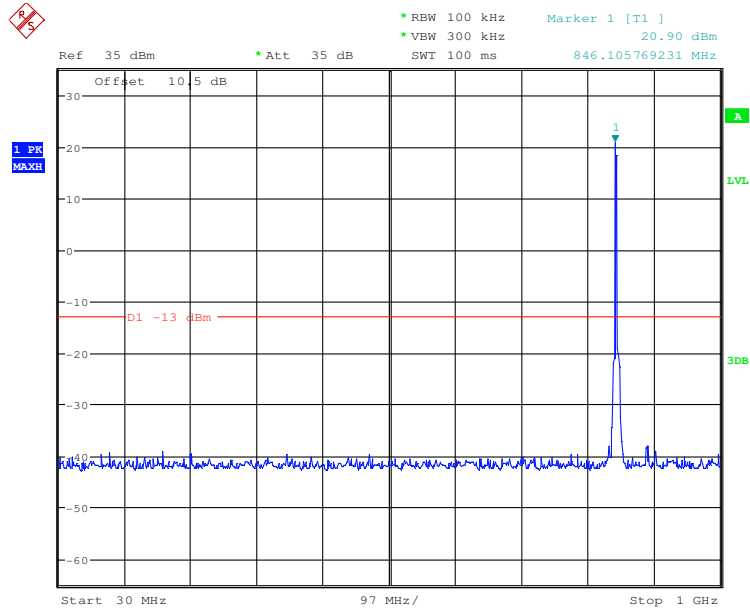
150KHz~30MHz



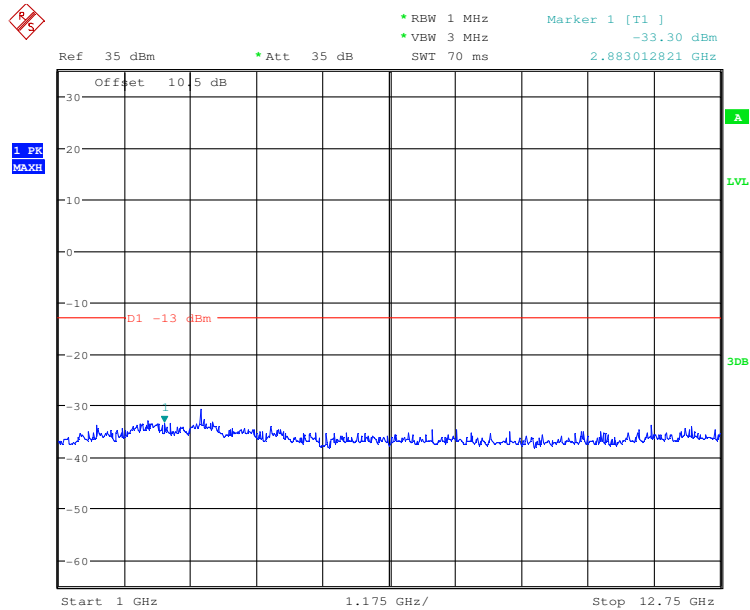
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30MHz~1GHz



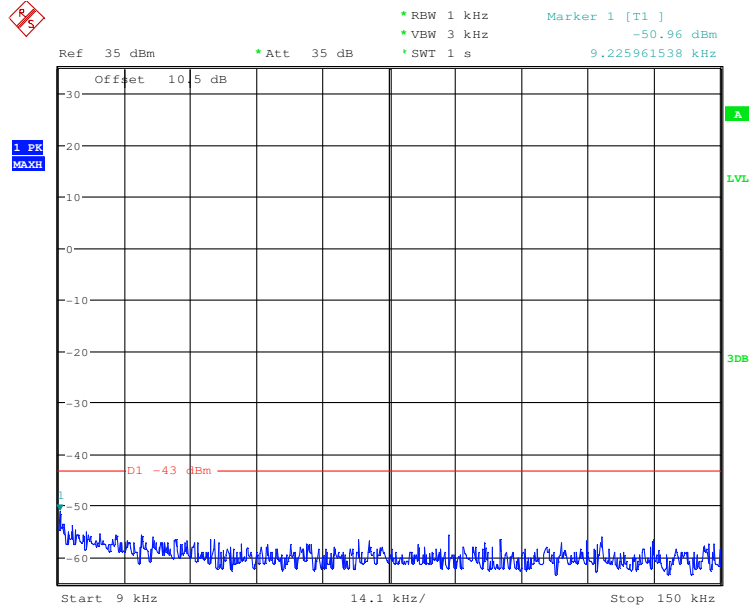
1GHz~12.75GHz



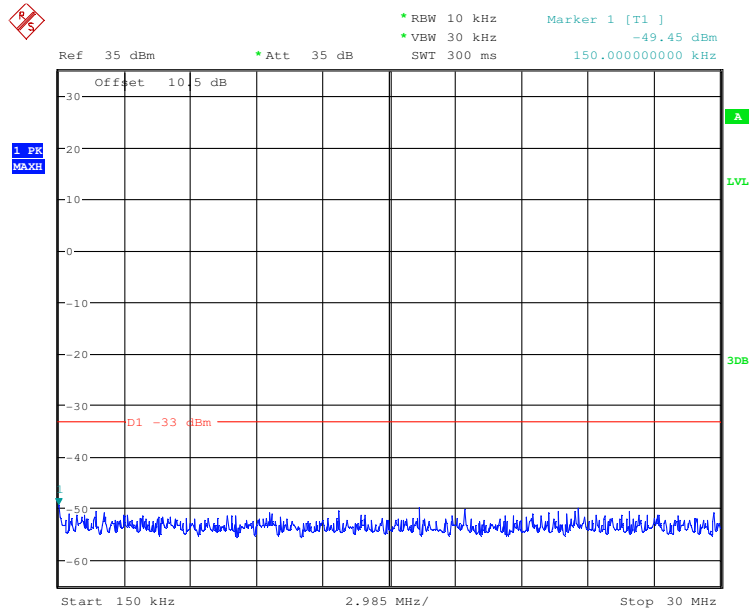


Test mode:	GSM1900	Test channel:	Lowest/512	Operation Frequency	1850.2MHz
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9KHz~150KHz



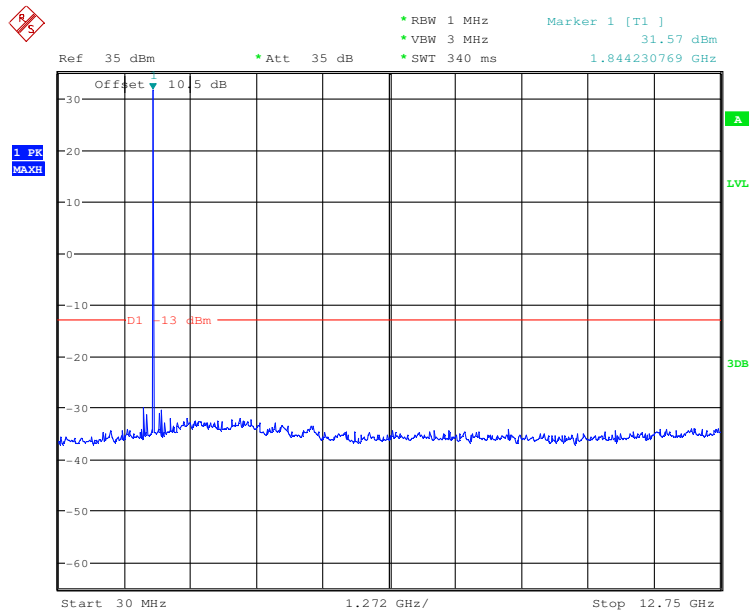
150KHz~30MHz



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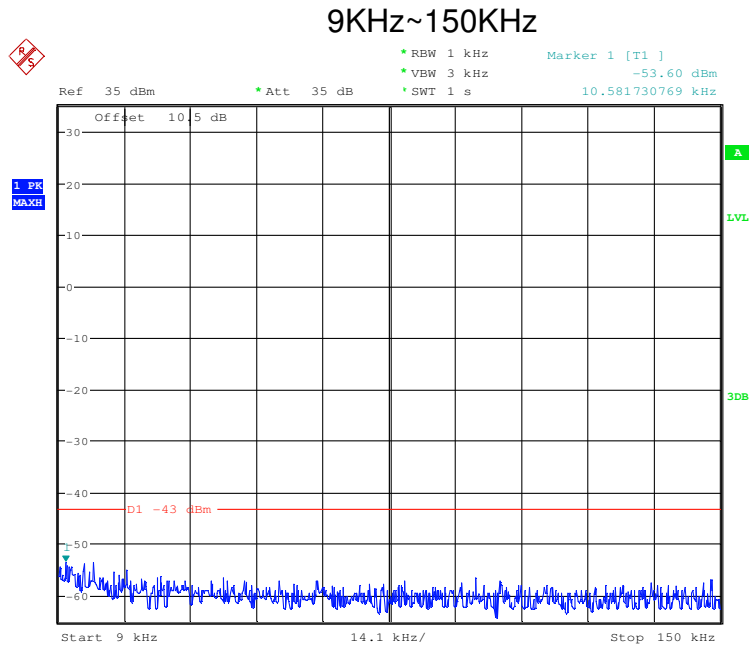
30MHz~12.75GHz



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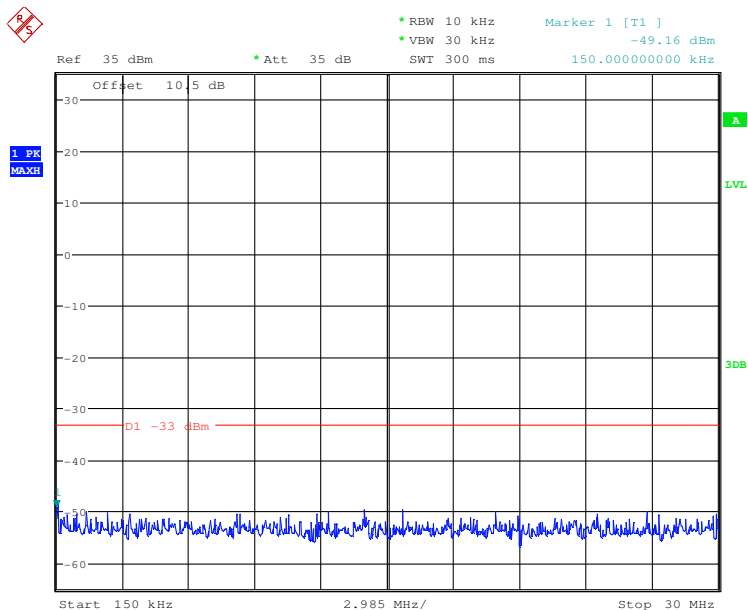


Test mode:	GSM1900	Test channel:	Middle/661	Operation Frequency	1880.0MHz
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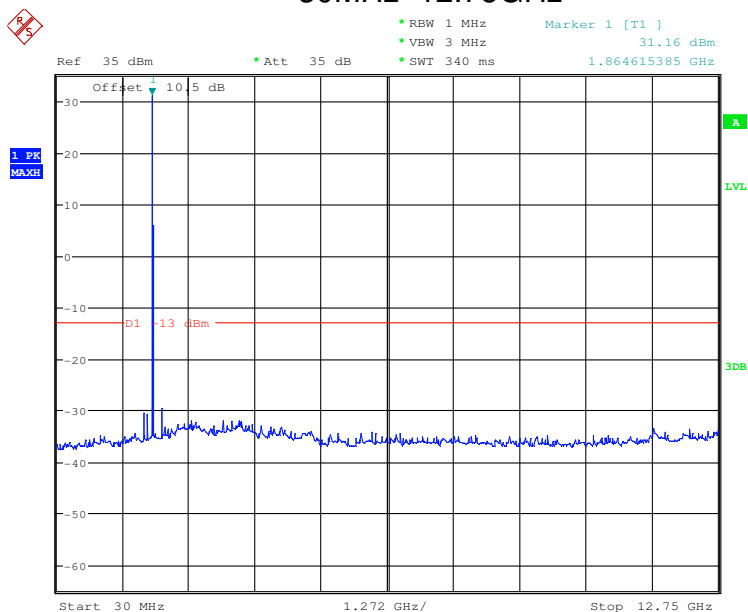


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150KHz~30MHz



30MHz~12.75GHz

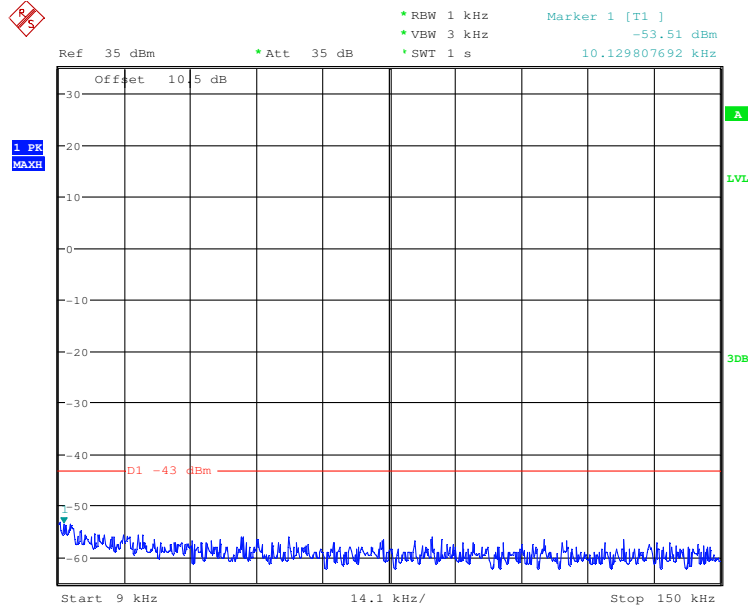


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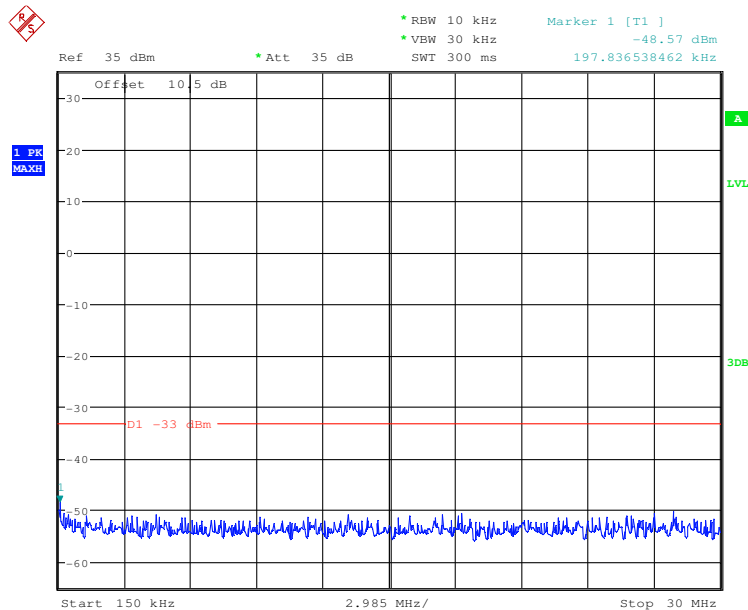


Test mode:	GSM1900	Test channel:	High/810	Operation Frequency	1909.8MHz
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9KHz~150KHz



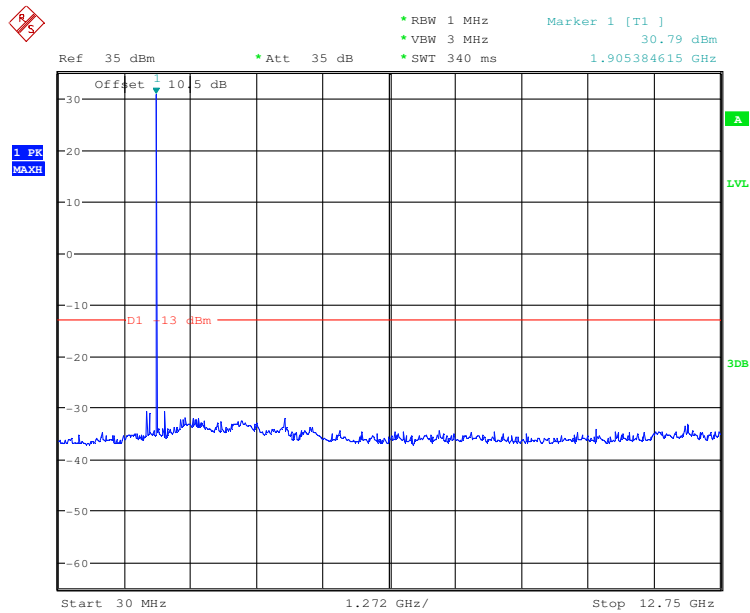
150KHz~30MHz



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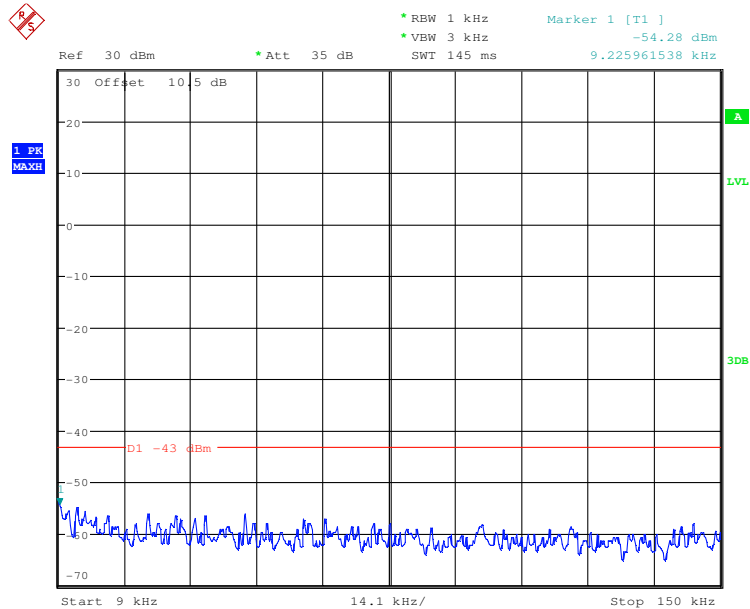
30MHz~12.75GHz





Test mode:	GPRS1900	Test channel:	Lowest/512	Operation Frequency	1850.2MHz
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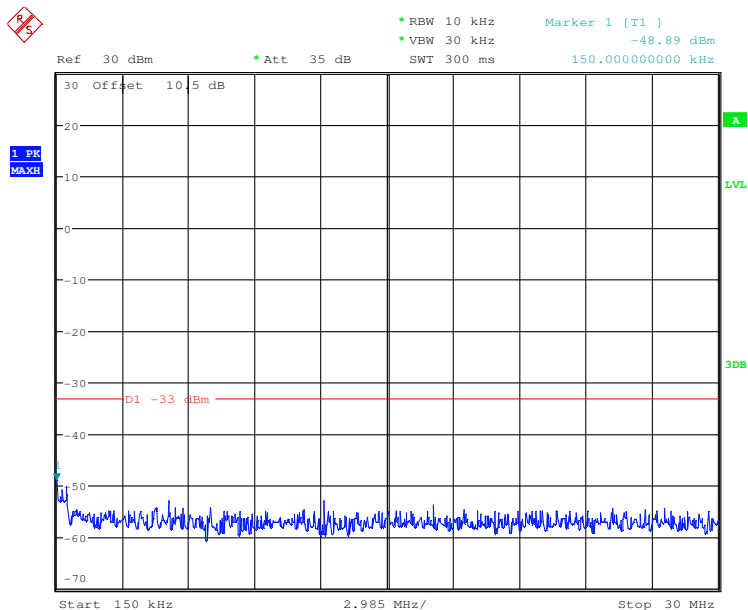
9KHz~150KHz



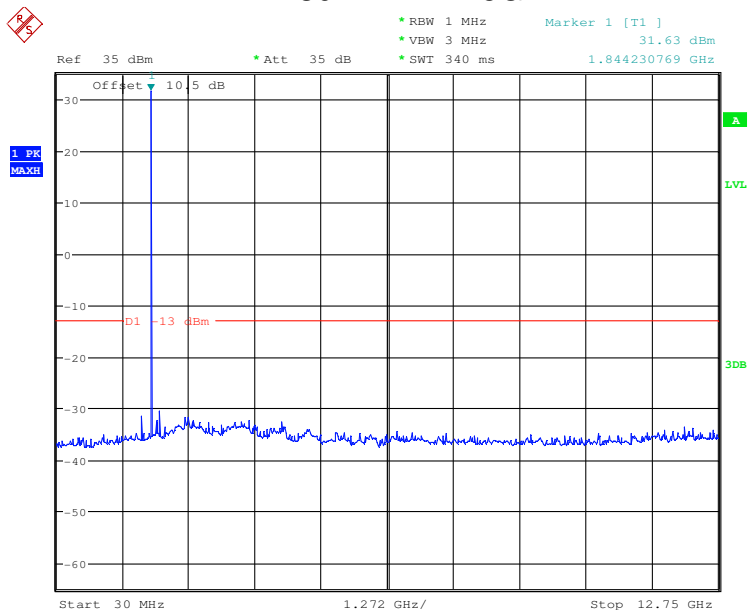
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150KHz~30MHz



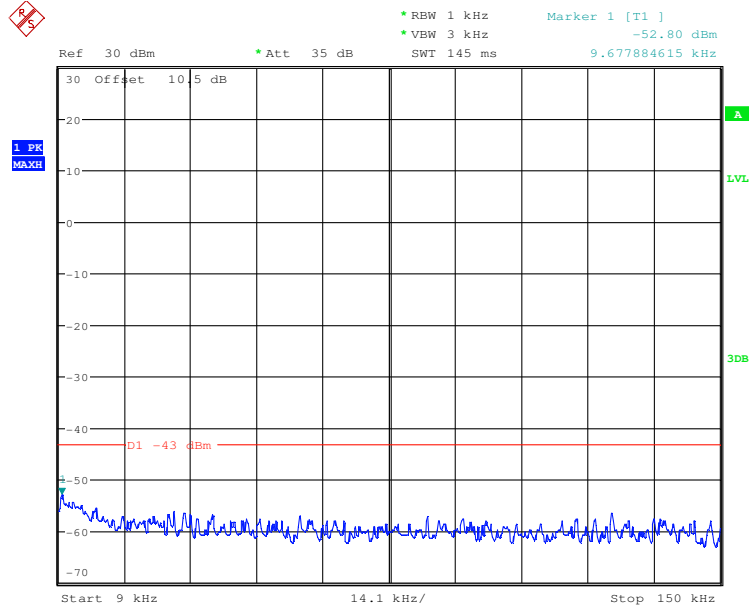
30MHz~12.75GHz



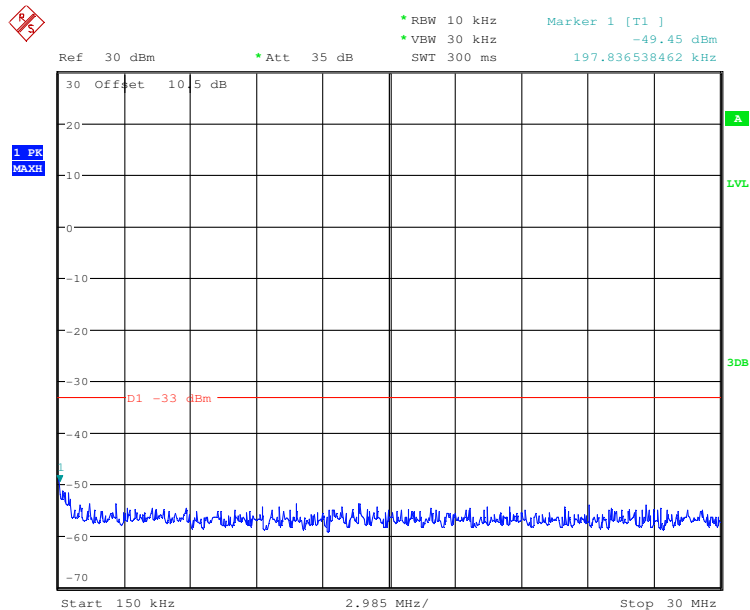


Test mode:	GPRS1900	Test channel:	Middle/661	Operation Frequency	1880.0MHz
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9KHz~150KHz



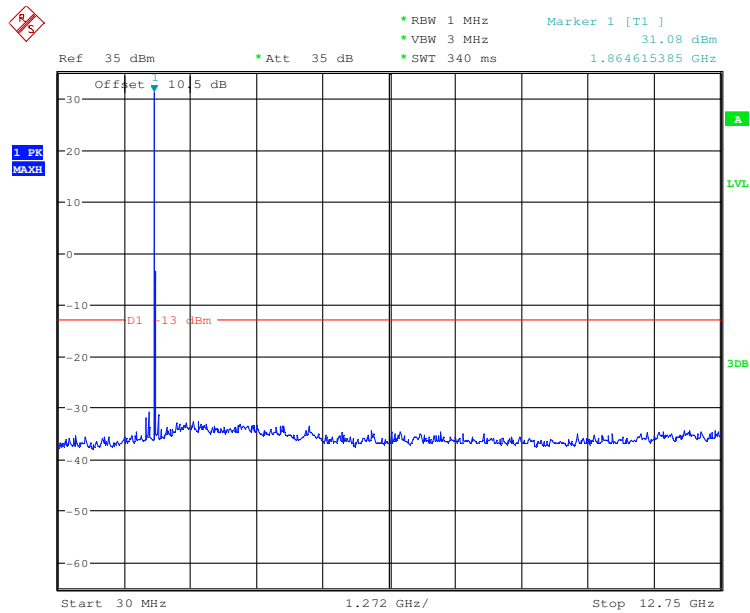
150KHz~30MHz



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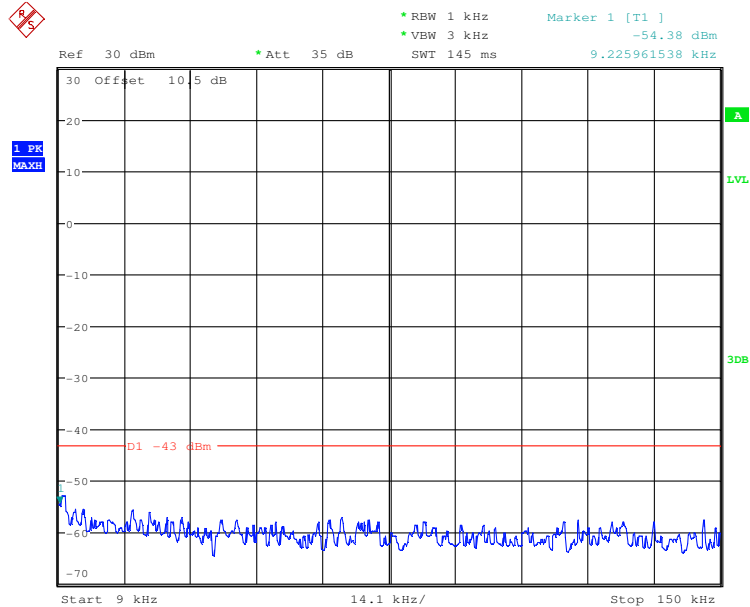
30MHz~12.75GHz





Test mode:	GPRS1900	Test channel:	High/810	Operation Frequency	1909.8MHz
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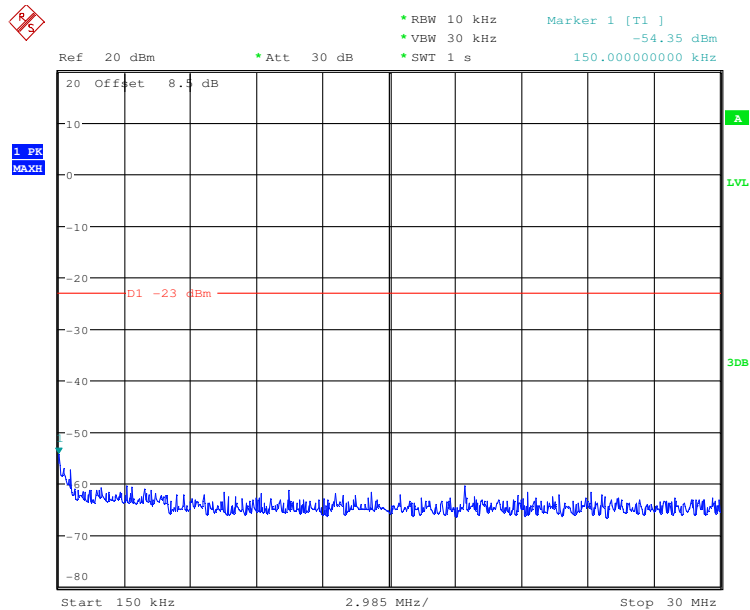
9KHz~150KHz



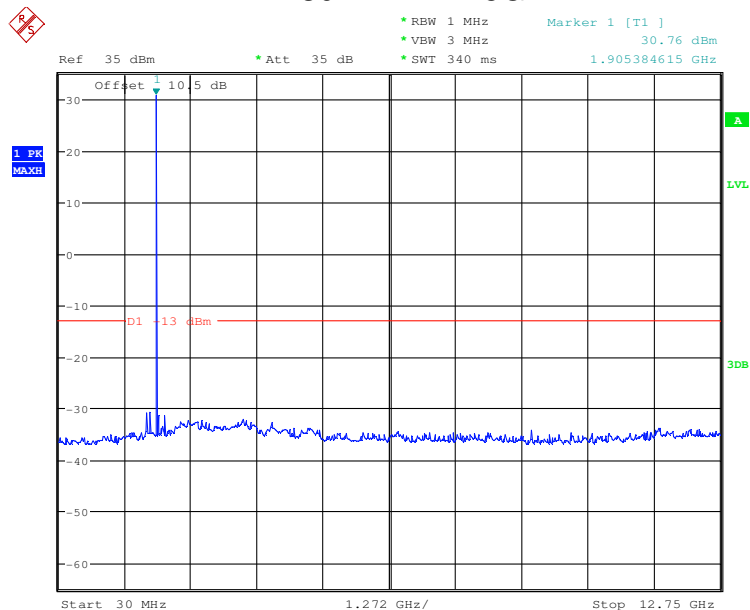
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150KHz~30MHz



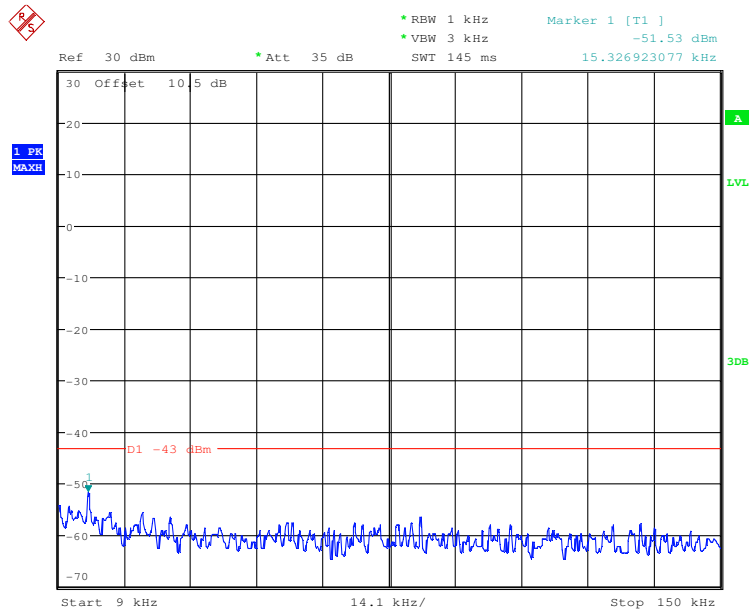
30MHz~12.75GHz



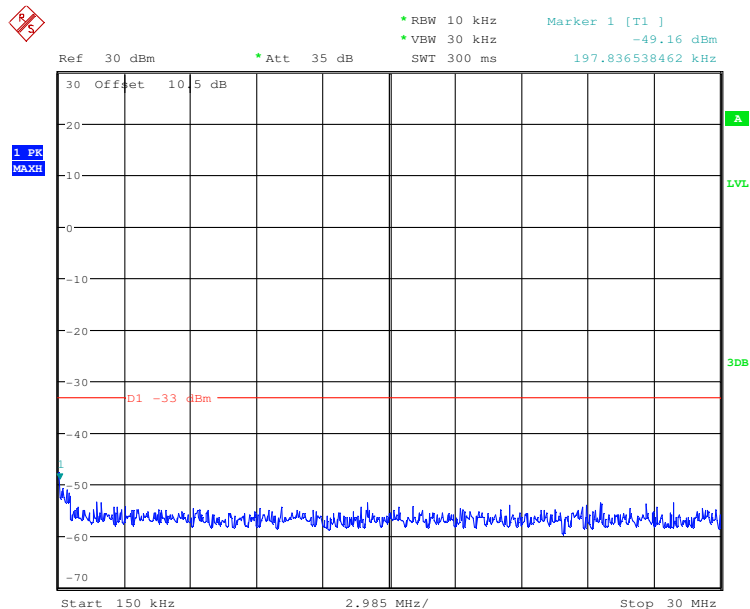


Test mode:	EGPRS(8PSK)1900	Test channel:	Lowest/512	Operation Frequency	1850.2MHz
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9KHz~150KHz



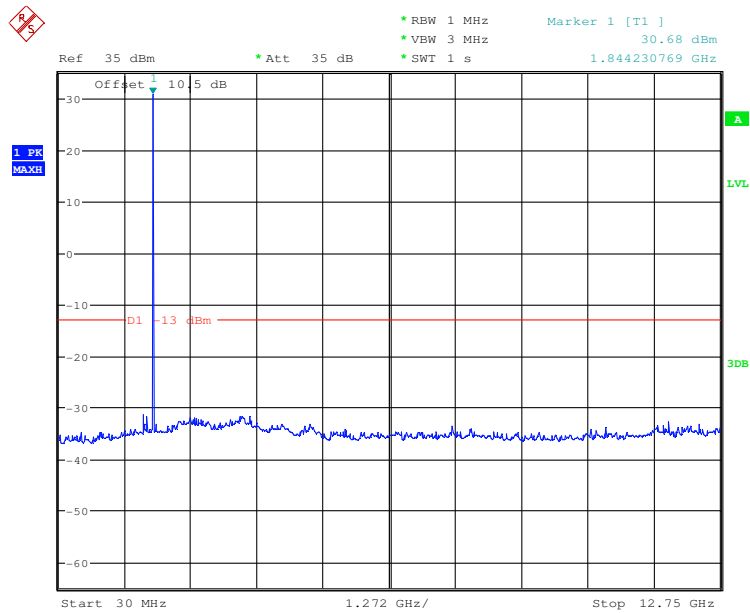
150KHz~30MHz



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30MHz~12.75GHz

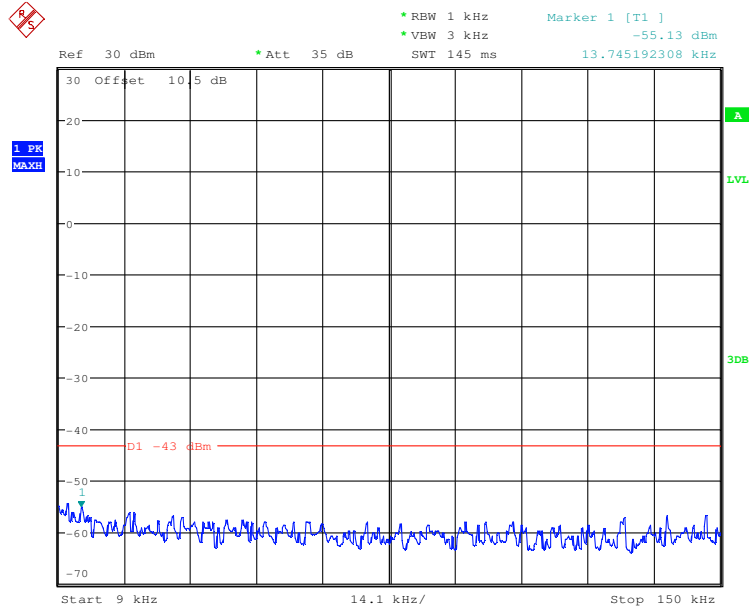


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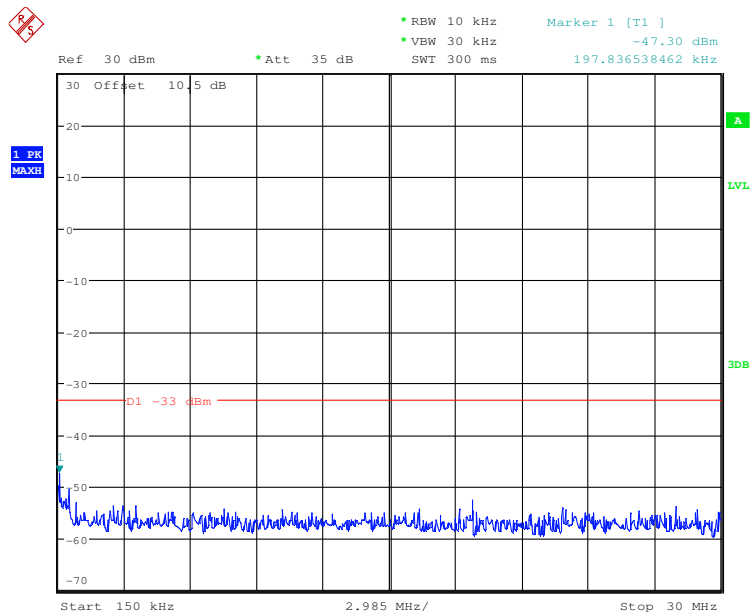
Test mode:	EGPRS(8PSK)1900	Test channel:	Middle/661	Operation Frequency	1880.0MHz
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9KHz~150KHz

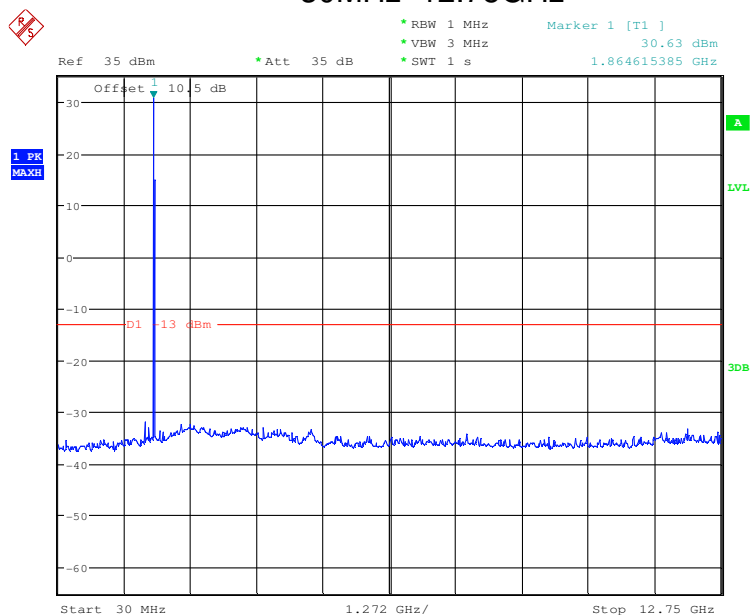


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150KHz~30MHz



30MHz~12.75GHz

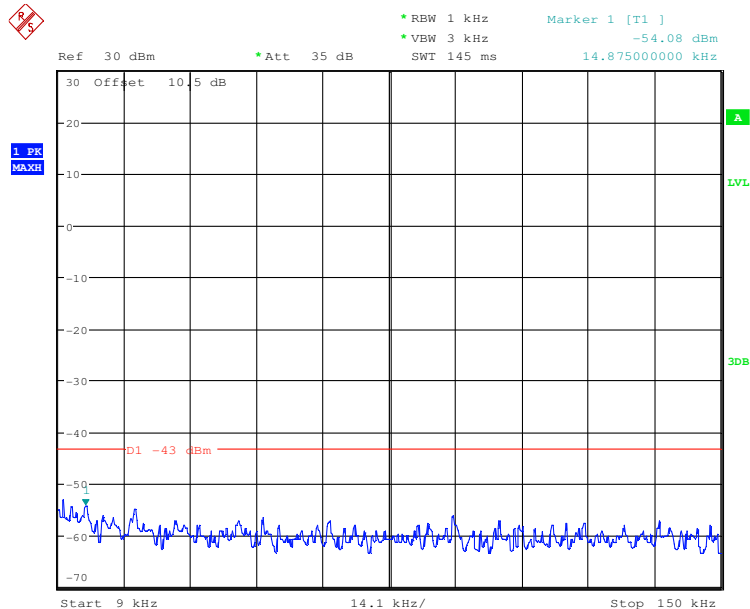


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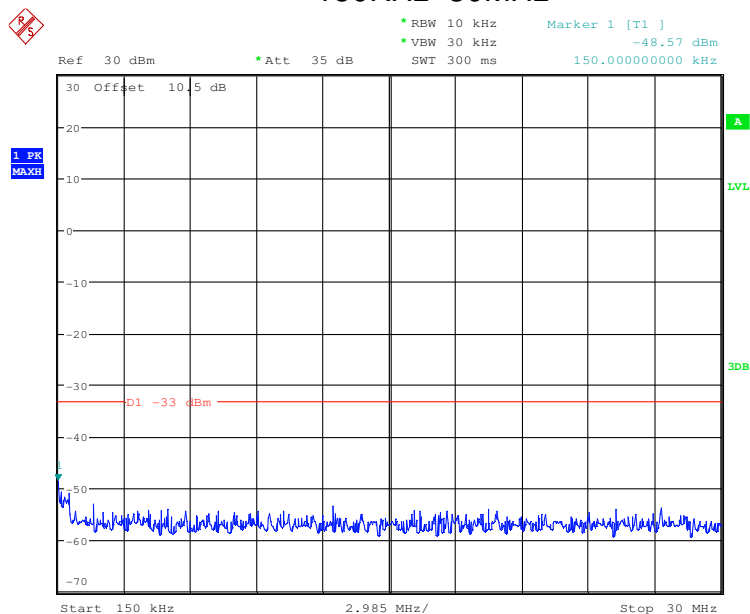


Test mode:	EGPRS(8PSK)1900	Test channel:	High/810	Operation Frequency	1909.8MHz
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9KHz~150KHz



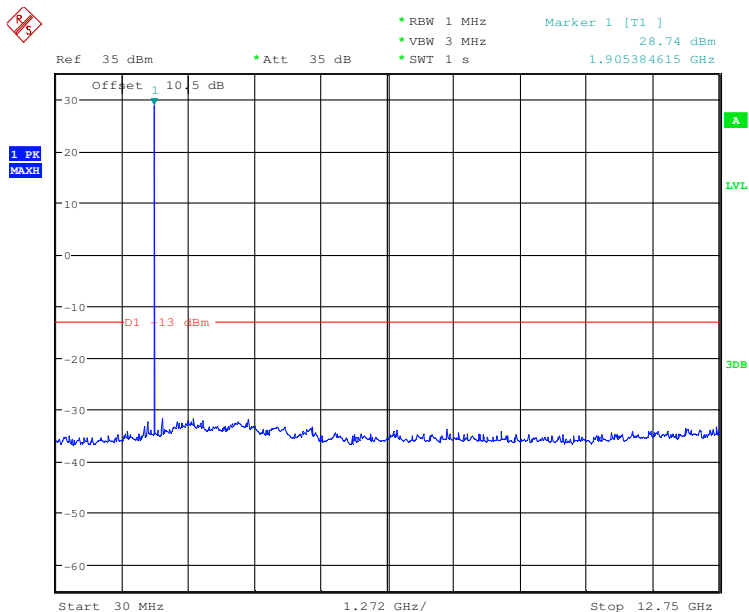
150KHz~30MHz



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30MHz~12.75GHz

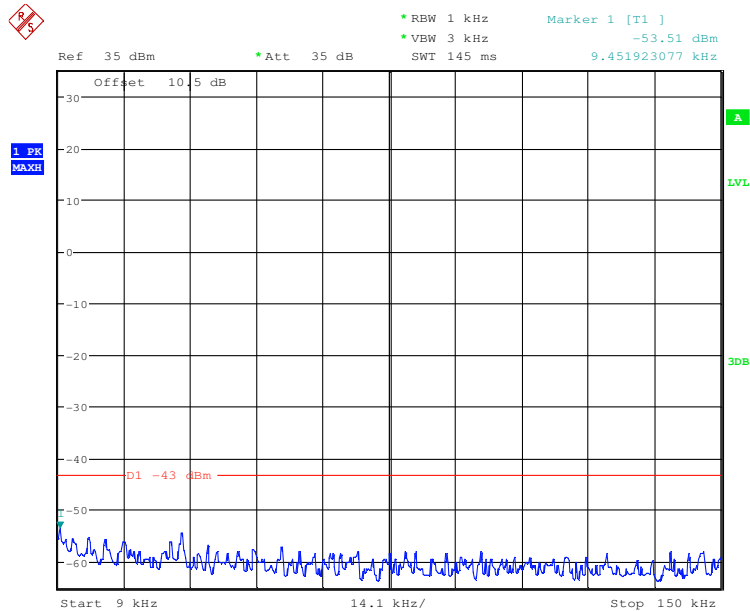


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Test mode:	WCDMA1900	Test channel:	Lowest/9262	Operation Frequency	1852.4MHz
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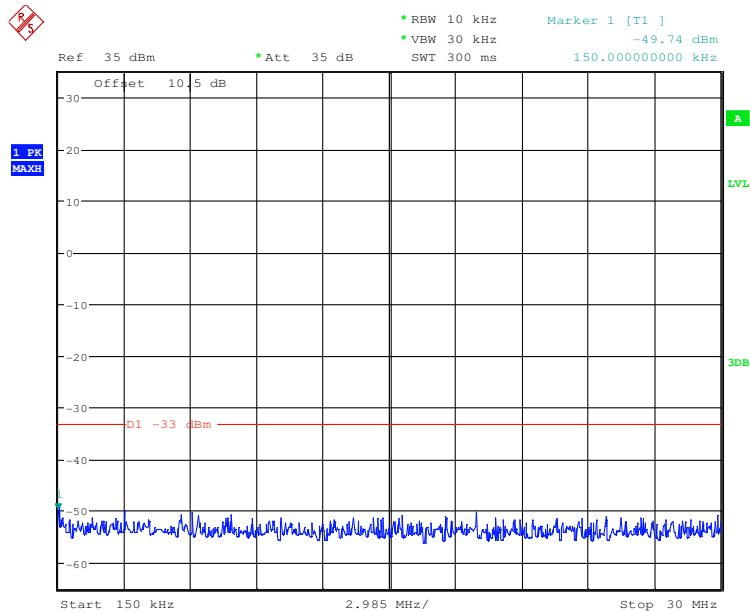
9KHz~150KHz



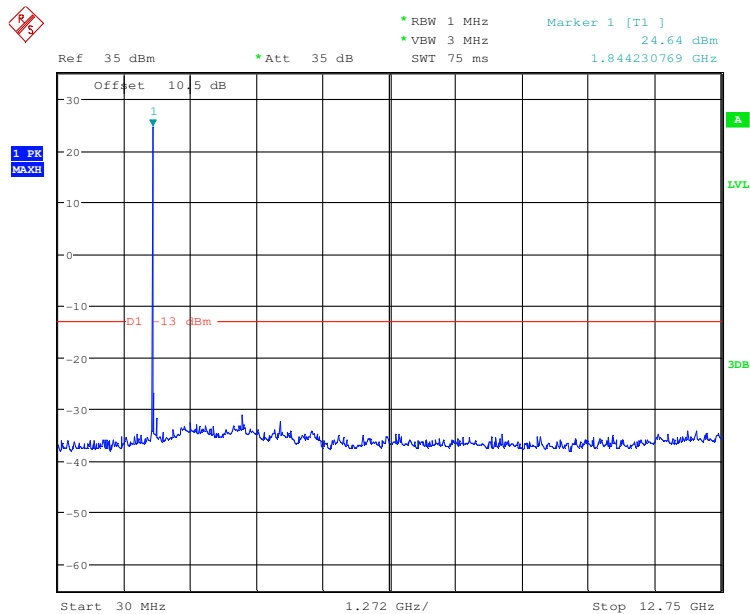
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150KHz~30MHz



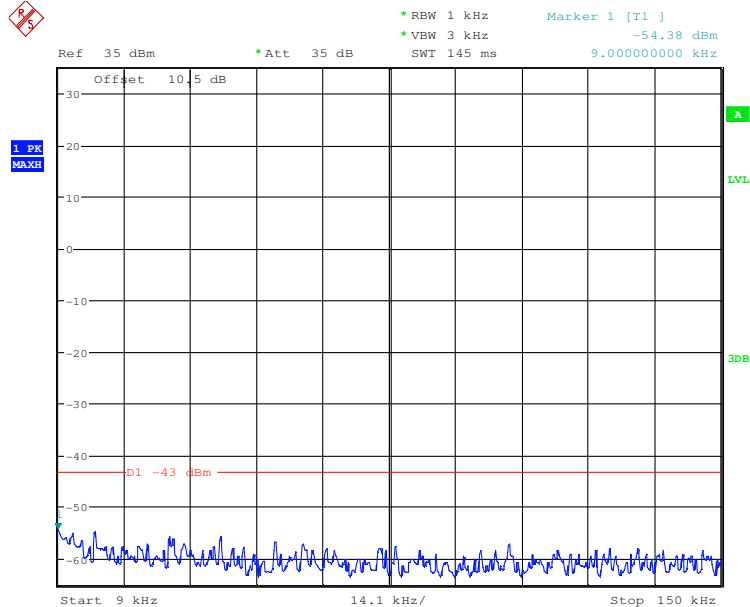
30MHz~12.75GHz



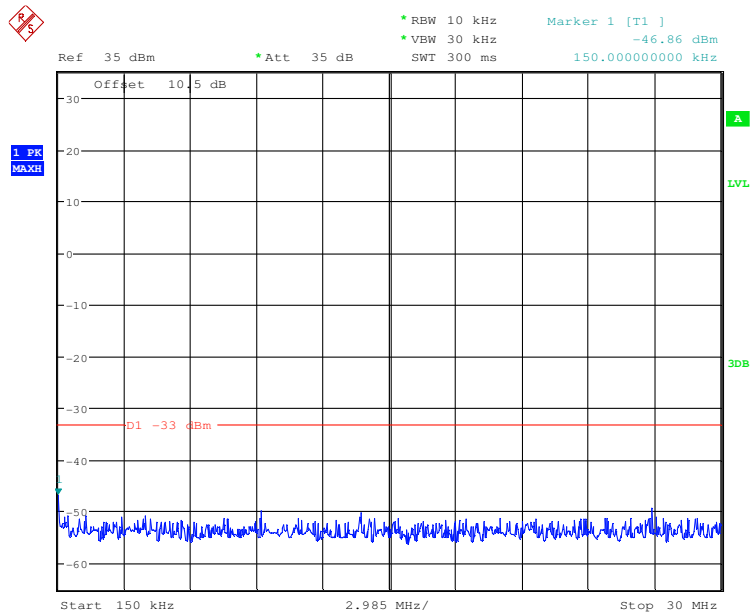


Test mode:	WCDMA1900	Test channel:	Middle/9400	Operation Frequency	1880.0MHz
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9KHz~150KHz



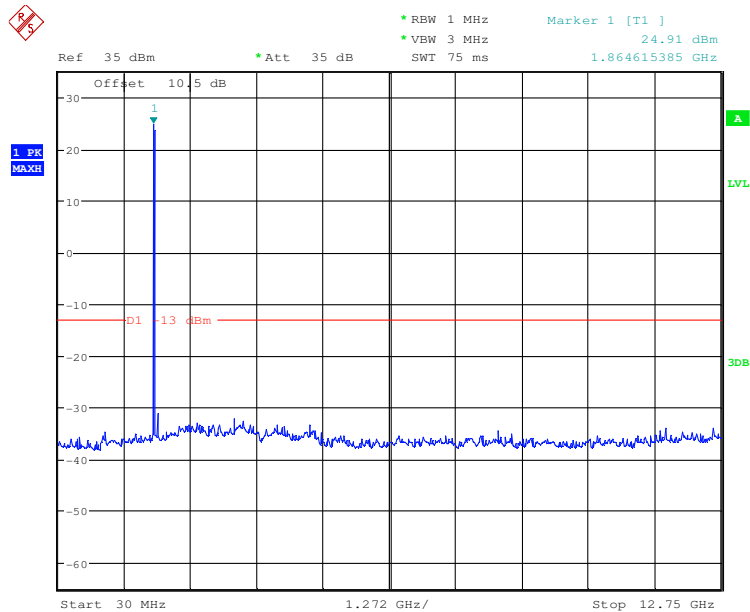
150KHz~30MHz



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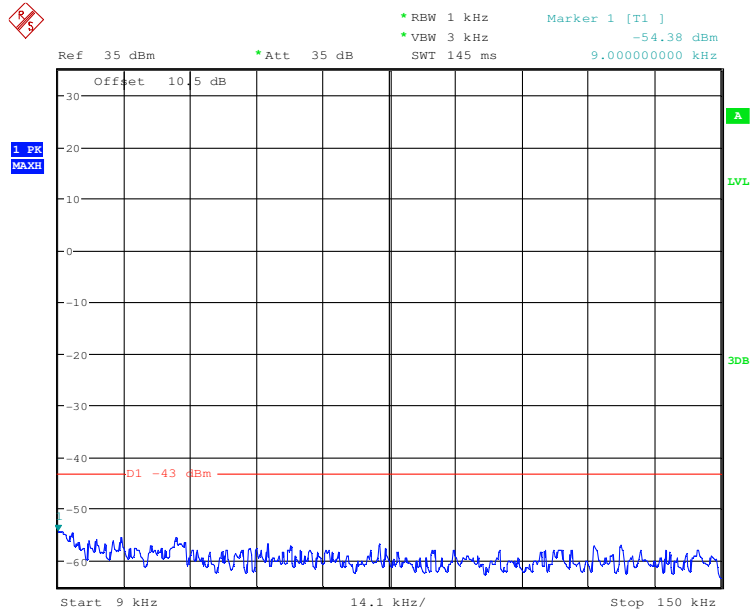
30MHz~12.75GHz





Test mode:	WCDMA1900	Test channel:	High/9538	Operation Frequency	1907.6MHz
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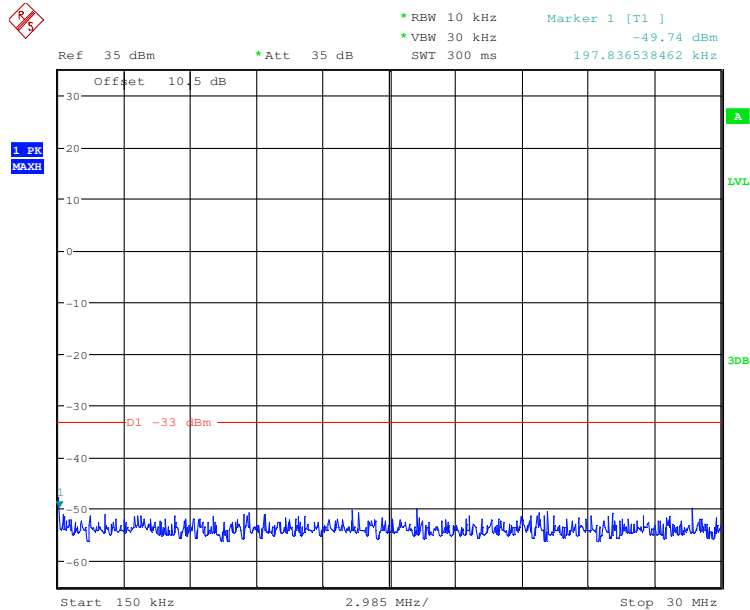
9KHz~150KHz



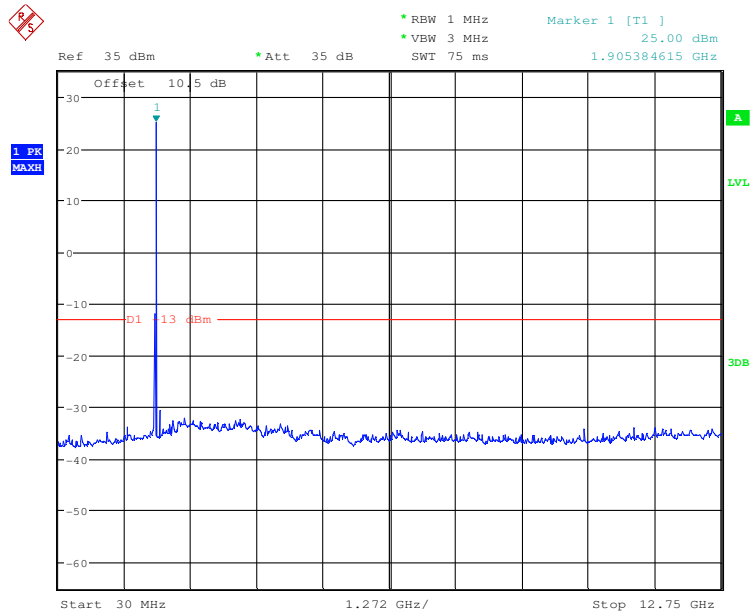
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150KHz~30MHz



30MHz~12.75GHz



5.4 Field strength of spurious radiation

Test Requirement:	Part 2.1053 , Part 22.917 and 24.238				
Test Method:	ITA-603-D-2010 Clause 2.2.12				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak
	30MHz-1GHz	Peak	100 kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Test Setup:					

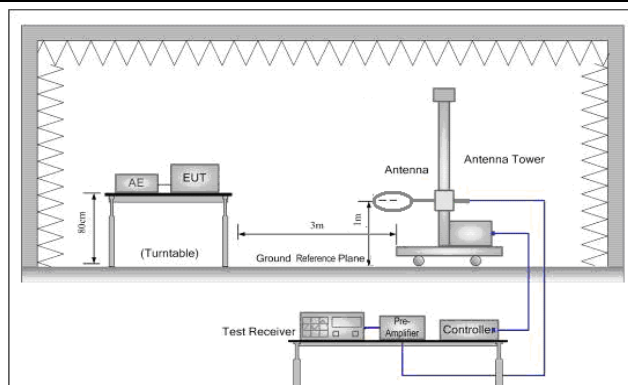


Figure 1. Below 30MHz

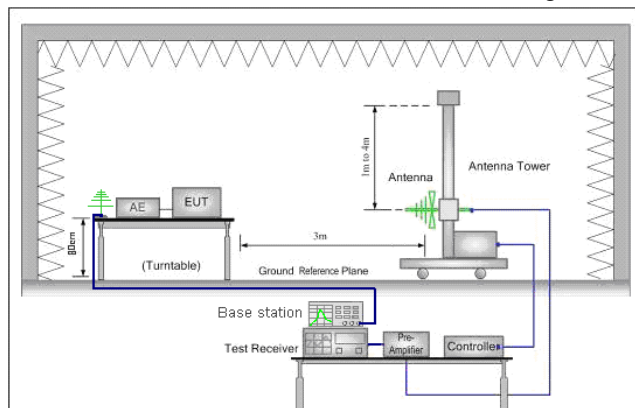


Figure 2. 30MHz to 1GHz

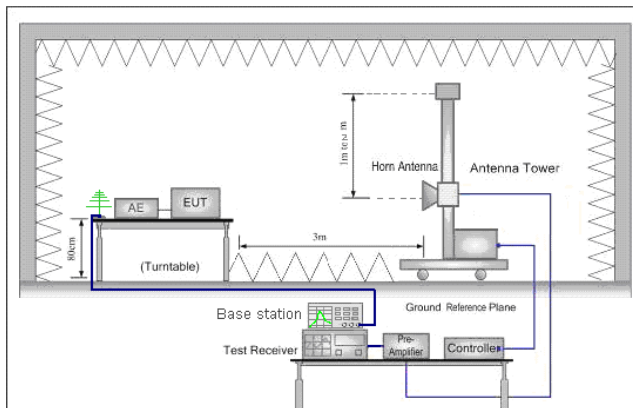


Figure 3. above 1GHz

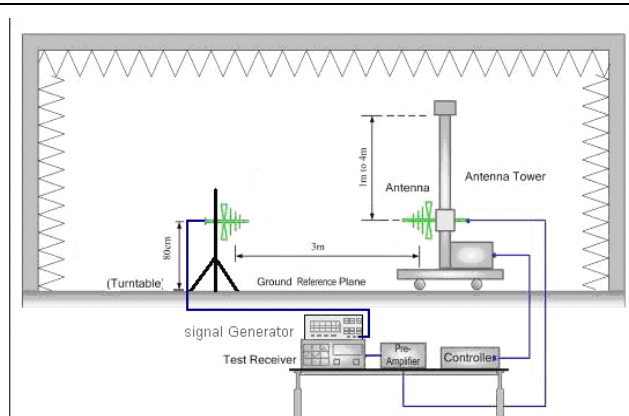


Figure 2. 30MHz to 1GHz

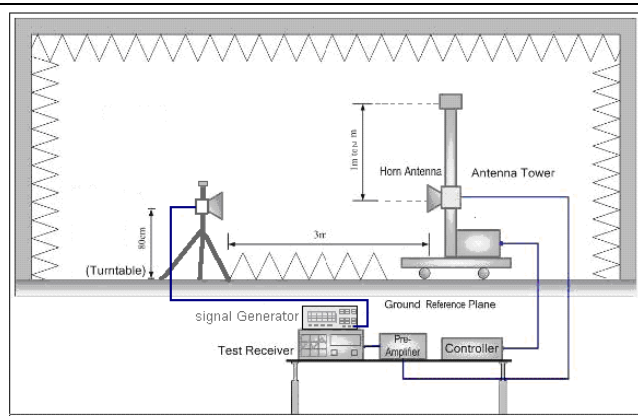


Figure 3. above 1GHz

Measurement Procedure:

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 1.70m high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8). Calculate power in dBm by the following formula:

$$ERP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

where:

P_g is the generator output power into the substitution antenna.

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

$$EIRP(dBm) = Pg(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBi)}$$

$$EIRP = ERP + 2.15dB$$

where:

P_g is the generator output power into the substitution antenna.

3. Test the EUT in the lowest channel, the middle channel the Highest channel



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Report No.: SZEM130600343104

Page: 69 of 89

	4. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report. 5. Repeat above procedures until all frequencies measured was complete.
Instruments Used:	Refer to section 4.10 for details
Limit:	Attenuated at least $43+10\log(P)$
Test Results:	Pass

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**Measurement Data:****Below1GHz:****GPRS 850:**

128							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.743	-51.46	-6.41	0.70	-60.72	-13.00	H	-47.72
109.412	-72.38	3.41	1.23	-72.35	-13.00	H	-59.35
230.099	-65.67	7.49	1.57	-61.90	-13.00	H	-48.90
350.477	-78.58	9.06	2.06	-73.73	-13.00	H	-60.73
550.948	-71.04	4.69	2.65	-71.15	-13.00	H	-58.15
782.345	-61.08	8.59	3.15	-57.79	-13.00	H	-44.79
47.326	-63.45	-1.86	0.75	-68.21	-13.00	V	-55.21
162.041	-69.31	5.48	1.34	-67.32	-13.00	V	-54.32
250.301	-71.55	7.11	1.68	-68.27	-13.00	V	-55.27
452.720	-71.99	6.89	2.42	-69.67	-13.00	V	-56.67
651.942	-62.26	8.44	2.81	-58.78	-13.00	V	-45.78
1000.000	-57.40	7.10	3.70	-56.15	-13.00	V	-43.15
190							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.743	-51.46	-6.41	0.70	-60.72	-13.00	H	-47.72
109.412	-72.38	3.41	1.23	-72.35	-13.00	H	-59.35
230.099	-65.67	7.49	1.57	-61.90	-13.00	H	-48.90
350.477	-78.58	9.06	2.06	-73.73	-13.00	H	-60.73
550.948	-71.04	4.69	2.65	-71.15	-13.00	H	-58.15
782.345	-61.08	8.59	3.15	-57.79	-13.00	H	-44.79
47.326	-63.45	-1.86	0.75	-68.21	-13.00	V	-55.21
162.041	-69.31	5.48	1.34	-67.32	-13.00	V	-54.32
250.301	-71.55	7.11	1.68	-68.27	-13.00	V	-55.27
452.720	-71.99	6.89	2.42	-69.67	-13.00	V	-56.67
651.942	-62.26	8.44	2.81	-58.78	-13.00	V	-45.78
1000.000	-57.40	7.10	3.70	-56.15	-13.00	V	-43.15



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251							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.743	-56.25	-6.41	0.70	-65.51	-13.00	H	-52.51
155.364	-68.83	5.21	1.33	-67.10	-13.00	H	-54.10
230.099	-65.69	7.49	1.57	-61.92	-13.00	H	-48.92
350.477	-80.32	9.06	2.06	-75.47	-13.00	H	-62.47
629.477	-69.46	9.02	2.76	-65.35	-13.00	H	-52.35
734.491	-61.90	6.83	3.01	-60.23	-13.00	H	-47.23
137.903	-71.36	5.46	1.29	-69.34	-13.00	V	-56.34
169.005	-67.11	5.76	1.35	-64.85	-13.00	V	-51.85
250.301	-73.77	7.11	1.68	-70.49	-13.00	V	-57.49
452.720	-75.29	6.89	2.42	-72.97	-13.00	V	-59.97
679.960	-55.11	5.60	2.86	-54.52	-13.00	V	-41.52
965.542	-57.53	4.84	3.67	-58.51	-13.00	V	-45.51

GPRS 1900:

512							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
47.326	-68.96	-1.86	0.75	-71.57	-13.00	H	-58.57
148.963	-76.38	5.42	1.32	-72.28	-13.00	H	-59.28
250.301	-83.52	7.11	1.68	-78.09	-13.00	H	-65.09
350.477	-76.56	9.06	2.06	-69.56	-13.00	H	-56.56
629.477	-71.68	9.02	2.76	-65.42	-13.00	H	-52.42
755.387	-68.23	9.66	3.07	-61.64	-13.00	H	-48.64
137.903	-75.54	5.46	1.29	-71.37	-13.00	V	-58.37
165.487	-78.59	5.62	1.35	-74.32	-13.00	V	-61.32
300.367	-81.96	5.85	1.90	-78.01	-13.00	V	-65.01
452.720	-74.39	6.89	2.42	-69.92	-13.00	V	-56.92
651.942	-73.86	8.44	2.81	-68.23	-13.00	V	-55.23
952.094	-68.22	5.61	3.65	-66.26	-13.00	V	-53.26

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661							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
46.995	-68.10	-2.78	0.74	-71.62	-13.00	H	-58.62
104.903	-73.62	2.69	1.21	-72.14	-13.00	H	-59.14
126.772	-80.84	5.24	1.27	-76.87	-13.00	H	-63.87
230.099	-68.02	7.49	1.57	-62.10	-13.00	H	-49.10
452.720	-75.89	6.89	2.42	-71.42	-13.00	H	-58.42
629.477	-70.69	9.02	2.76	-64.43	-13.00	H	-51.43
67.202	-84.27	2.56	0.80	-82.51	-13.00	V	-69.51
107.888	-79.65	3.17	1.22	-77.70	-13.00	V	-64.70
148.963	-74.93	5.42	1.32	-70.83	-13.00	V	-57.83
350.477	-78.93	9.06	2.06	-71.93	-13.00	V	-58.93
502.940	-79.05	9.22	2.60	-72.43	-13.00	V	-59.43
755.387	-66.99	9.66	3.07	-60.40	-13.00	V	-47.40
810							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
46.995	-76.38	-2.78	0.74	-79.90	-13.00	H	-66.90
250.301	-73.84	7.11	1.68	-68.41	-13.00	H	-55.41
350.477	-69.68	9.06	2.06	-62.68	-13.00	H	-49.68
452.720	-74.10	6.89	2.42	-69.63	-13.00	H	-56.63
629.477	-75.98	9.02	2.76	-69.72	-13.00	H	-56.72
833.317	-70.88	4.40	3.34	-69.82	-13.00	H	-56.82
142.824	-78.85	5.50	1.30	-74.65	-13.00	V	-61.65
300.367	-78.67	5.85	1.90	-74.72	-13.00	V	-61.72
375.939	-78.25	7.22	2.13	-73.16	-13.00	V	-60.16
502.940	-79.67	9.22	2.60	-73.05	-13.00	V	-60.05
755.387	-74.04	9.66	3.07	-67.45	-13.00	V	-54.45
945.440	-67.70	6.39	3.65	-64.96	-13.00	V	-51.96

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EGPRS(8PSK) 850:

128							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.743	-57.47	-6.41	0.70	-68.88	-13.00	H	-55.88
115.726	-80.39	4.69	1.24	-81.24	-13.00	H	-68.24
164.330	-79.02	5.57	1.34	-79.09	-13.00	H	-66.09
300.367	-73.21	5.85	1.90	-73.56	-13.00	H	-60.56
452.720	-69.74	6.89	2.42	-69.57	-13.00	H	-56.57
651.942	-66.08	8.44	2.81	-64.75	-13.00	H	-51.75
44.743	-56.90	-6.41	0.70	-68.31	-13.00	V	-55.31
140.835	-71.02	5.50	1.30	-71.12	-13.00	V	-58.12
230.099	-71.35	7.49	1.57	-69.73	-13.00	V	-56.73
350.477	-79.35	9.06	2.06	-76.65	-13.00	V	-63.65
590.974	-72.77	6.48	2.69	-73.28	-13.00	V	-60.28
755.387	-66.66	9.66	3.07	-64.37	-13.00	V	-51.37
190							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.743	-60.42	-6.41	0.70	-71.83	-13.00	H	-58.83
107.134	-74.37	3.05	1.22	-76.84	-13.00	H	-63.84
162.041	-68.62	5.48	1.34	-68.78	-13.00	H	-55.78
300.367	-77.50	5.85	1.90	-77.85	-13.00	H	-64.85
452.720	-76.4	6.89	2.42	-76.23	-13.00	H	-63.23
665.804	-60.52	7.04	2.84	-60.62	-13.00	H	-47.62
45.058	-55.02	-6.20	0.71	-66.23	-13.00	V	-53.23
173.814	-77.20	6.49	1.36	-76.37	-13.00	V	-63.37
300.367	-72.94	5.85	1.90	-73.29	-13.00	V	-60.29
375.939	-74.46	7.22	2.13	-73.67	-13.00	V	-60.67
629.477	-72.86	9.02	2.76	-70.90	-13.00	V	-57.90
793.396	-65.14	7.36	3.18	-65.26	-13.00	V	-52.26

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251							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
45.058	-47.71	-6.20	0.71	-58.92	-13.00	H	-45.92
158.112	-77.40	5.33	1.33	-77.70	-13.00	H	-64.70
350.477	-77.28	9.06	2.06	-74.58	-13.00	H	-61.58
502.940	-78.51	9.22	2.60	-76.19	-13.00	H	-63.19
629.477	-74.34	9.02	2.76	-72.38	-13.00	H	-59.38
804.603	-66.51	6.76	3.22	-67.27	-13.00	H	-54.27
45.058	-50.90	-6.20	0.71	-62.11	-13.00	V	-49.11
109.412	-74.56	3.41	1.23	-76.68	-13.00	V	-63.68
165.487	-69.98	5.62	1.35	-70.01	-13.00	V	-57.01
300.367	-74.88	5.85	1.90	-75.23	-13.00	V	-62.23
452.720	-74.58	6.89	2.42	-74.41	-13.00	V	-61.41
679.960	-56.28	5.60	2.86	-57.84	-13.00	V	-44.84

EGPRS(8PSK) 1900:

512							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
166.651	-76.96	5.67	1.35	-72.64	-13.00	H	-59.64
230.099	-79.34	7.49	1.57	-73.42	-13.00	H	-60.42
300.367	-75.29	5.85	1.90	-71.34	-13.00	H	-58.34
375.939	-77.03	7.22	2.13	-71.94	-13.00	H	-58.94
535.707	-78.12	5.70	2.64	-75.06	-13.00	H	-62.06
755.387	-73.06	9.66	3.07	-66.47	-13.00	H	-53.47
47.659	-67.48	-0.94	0.76	-69.18	-13.00	V	-56.18
163.755	-78.66	5.55	1.34	-74.45	-13.00	V	-61.45
350.477	-78.65	9.06	2.06	-71.65	-13.00	V	-58.65
502.940	-77.57	9.22	2.60	-70.95	-13.00	V	-57.95
651.942	-74.41	8.44	2.81	-68.78	-13.00	V	-55.78
804.603	-72.62	6.76	3.22	-69.08	-13.00	V	-56.08



661							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
47.326	-76.23	-1.86	0.75	-78.84	-13.00	H	-65.84
142.824	-78.15	5.50	1.30	-73.95	-13.00	H	-60.95
250.301	-72.79	7.11	1.68	-67.36	-13.00	H	-54.36
350.477	-69.70	9.06	2.06	-62.70	-13.00	H	-49.70
502.940	-80.25	9.22	2.60	-73.63	-13.00	H	-60.63
755.387	-72.20	9.66	3.07	-65.61	-13.00	H	-52.61
47.326	-67.51	-1.86	0.75	-70.12	-13.00	V	-57.12
138.874	-74.45	5.48	1.29	-70.26	-13.00	V	-57.26
230.099	-67.94	7.49	1.57	-62.02	-13.00	V	-49.02
350.477	-77.97	9.06	2.06	-70.97	-13.00	V	-57.97
629.477	-69.42	9.02	2.76	-63.16	-13.00	V	-50.16
755.387	-66.62	9.66	3.07	-60.03	-13.00	V	-47.03
810							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
46.995	-66.80	-2.78	0.74	-70.32	-13.00	H	-57.32
137.903	-74.06	5.46	1.29	-69.89	-13.00	H	-56.89
230.099	-76.98	7.49	1.57	-71.06	-13.00	H	-58.06
452.720	-74.92	6.89	2.42	-70.45	-13.00	H	-57.45
629.477	-69.47	9.02	2.76	-63.21	-13.00	H	-50.21
755.387	-66.59	9.66	3.07	-60.00	-13.00	H	-47.0
47.326	-75.56	-1.86	0.75	-78.17	-13.00	V	-65.17
142.824	-78.26	5.50	1.30	-74.06	-13.00	V	-61.06
230.099	-77.19	7.49	1.57	-71.27	-13.00	V	-58.27
350.477	-68.98	9.06	2.06	-61.98	-13.00	V	-48.98
452.720	-74.27	6.89	2.42	-69.80	-13.00	V	-56.80
755.387	-72.34	9.66	3.07	-65.75	-13.00	V	-52.75



WCDMA 850:

4132							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
45.695	-58.79	-5.79	0.72	-69.60	-13.00	H	-56.60
169.005	-74.31	5.76	1.35	-74.20	-13.00	H	-61.20
250.301	-71.61	7.11	1.68	-70.48	-13.00	H	-57.48
452.720	-72.00	6.89	2.42	-71.83	-13.00	H	-58.83
629.477	-67.69	9.02	2.76	-65.73	-13.00	H	-52.73
755.387	-64.79	9.66	3.07	-62.50	-13.00	H	-49.50
47.326	-65.94	-1.86	0.75	-72.85	-13.00	V	-59.85
165.487	-74.87	5.62	1.35	-74.90	-13.00	V	-61.90
250.301	-78.60	7.11	1.68	-77.47	-13.00	V	-64.47
452.720	-72.74	6.89	2.42	-72.57	-13.00	V	-59.57
629.477	-67.69	9.02	2.76	-65.73	-13.00	V	-52.73
755.387	-64.79	9.66	3.07	-62.50	-13.00	V	-49.50
4182							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.431	-63.14	-6.62	0.69	-74.75	-13.00	H	-61.75
165.487	-74.54	5.62	1.35	-74.57	-13.00	H	-61.57
250.301	-71.30	7.11	1.68	-70.17	-13.00	H	-57.17
350.477	-67.68	9.06	2.06	-64.98	-13.00	H	-51.98
502.94	-78.27	9.22	2.60	-75.95	-13.00	H	-62.95
755.387	-71.57	9.66	3.07	-69.28	-13.00	H	-56.28
47.994	-65.94	-0.02	0.76	-71.02	-13.00	V	-58.02
137.903	-72.06	5.46	1.29	-72.19	-13.00	V	-59.19
230.099	-67.73	7.49	1.57	-66.11	-13.00	V	-53.11
452.720	-73.05	6.89	2.42	-72.88	-13.00	V	-59.88
629.477	-67.06	9.02	2.76	-65.10	-13.00	V	-52.10
755.387	-64.54	9.66	3.07	-62.25	-13.00	V	-49.25

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4233							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
44.431	-66.25	-6.62	0.69	-77.86	-13.00	H	-64.86
142.824	-76.56	5.50	1.30	-76.66	-13.00	H	-63.66
230.099	-74.85	7.49	1.57	-73.23	-13.00	H	-60.23
300.367	-73.27	5.85	1.90	-73.62	-13.00	H	-60.62
452.720	-73.13	6.89	2.42	-72.96	-13.00	H	-59.96
629.477	-73.64	9.02	2.76	-71.68	-13.00	H	-58.68
47.994	-66.20	-0.02	0.76	-71.28	-13.00	V	-58.28
148.963	-71.89	5.42	1.32	-72.09	-13.00	V	-59.09
250.301	-79.20	7.11	1.68	-78.07	-13.00	V	-65.07
452.720	-72.88	6.89	2.42	-72.71	-13.00	V	-59.71
629.477	-67.62	9.02	2.76	-65.66	-13.00	V	-52.66
755.387	-65.17	9.66	3.07	-62.88	-13.00	V	-49.88

WCDMA 1900:

9262							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
46.995	-75.05	-2.78	0.74	-78.57	-13.00	H	-65.57
169.005	-76.69	5.76	1.35	-72.28	-13.00	H	-59.28
250.301	-73.20	7.11	1.68	-67.77	-13.00	H	-54.77
350.477	-69.69	9.06	2.06	-62.69	-13.00	H	-49.69
452.720	-74.39	6.89	2.42	-69.92	-13.00	H	-56.92
755.387	-73.08	9.66	3.07	-66.49	-13.00	H	-53.49
47.659	-68.44	-0.94	0.76	-70.14	-13.00	V	-57.14
137.903	-72.23	5.46	1.29	-68.06	-13.00	V	-55.06
230.099	-71.00	7.49	1.57	-65.08	-13.00	V	-52.08
452.720	-74.92	6.89	2.42	-70.45	-13.00	V	-57.45
629.477	-69.50	9.02	2.76	-63.24	-13.00	V	-50.24
755.387	-66.74	9.66	3.07	-60.15	-13.00	V	-47.15



9400							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
46.995	-75.56	-2.78	0.74	-79.08	-13.00	H	-66.08
170.195	-76.62	5.84	1.35	-72.13	-13.00	H	-59.13
230.099	-78.74	7.49	1.57	-72.82	-13.00	H	-59.82
350.477	-68.96	9.06	2.06	-61.96	-13.00	H	-48.96
452.720	-75.30	6.89	2.42	-70.83	-13.00	H	-57.83
755.387	-73.38	9.66	3.07	-66.79	-13.00	H	-53.79
47.826	-69.45	-0.48	0.76	-70.69	-13.00	V	-57.69
148.963	-75.15	5.42	1.32	-71.05	-13.00	V	-58.05
350.477	-77.82	9.06	2.06	-70.82	-13.00	V	-57.82
502.940	-78.01	9.22	2.6	-71.39	-13.00	V	-58.39
629.477	-69.33	9.02	2.76	-63.07	-13.00	V	-50.07
755.387	-66.53	9.66	3.07	-59.94	-13.00	V	-46.94
9538							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
47.659	-77.78	-0.94	0.76	-79.48	-13.00	H	-66.48
183.844	-81.51	7.55	1.38	-75.34	-13.00	H	-62.34
300.367	-74.14	5.85	1.90	-70.19	-13.00	H	-57.19
375.939	-76.61	7.22	2.13	-71.52	-13.00	H	-58.52
502.940	-79.50	9.22	2.60	-72.88	-13.00	H	-59.88
755.387	-73.94	9.66	3.07	-67.35	-13.00	H	-54.35
47.659	-68.03	-0.94	0.76	-69.73	-13.00	V	-56.73
104.903	-75.68	2.69	1.21	-74.20	-13.00	V	-61.20
165.487	-77.72	5.62	1.35	-73.45	-13.00	V	-60.45
350.477	-79.32	9.06	2.06	-72.32	-13.00	V	-59.32
502.940	-78.26	9.22	2.60	-71.64	-13.00	V	-58.64
755.387	-66.76	9.66	3.07	-60.17	-13.00	V	-47.17

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Above 1GHz:

GPRS 850:

128							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1276.818	-73.53	7.24	1.00	-71.59	-13.00	H	-58.59
2468.631	-50.07	6.94	1.23	-48.66	-13.00	H	-35.66
3561.636	-63.50	7.64	1.44	-61.60	-13.00	H	-48.60
5617.407	-59.90	7.45	1.76	-58.51	-13.00	H	-45.51
8042.903	-60.87	12.66	1.86	-54.37	-13.00	H	-41.37
11027.980	-57.02	12.04	2.01	-51.29	-13.00	H	-38.29
1353.804	-73.09	7.67	1.02	-70.74	-13.00	V	-57.74
2129.789	-68.82	8.51	1.22	-65.83	-13.00	V	-52.83
3283.018	-51.63	7.51	1.34	-49.76	-13.00	V	-36.76
4871.103	-61.65	5.77	1.7	-61.88	-13.00	V	-48.88
7264.278	-60.64	10.27	1.78	-56.45	-13.00	V	-43.45
11254.860	-57.68	11.52	2.05	-52.51	-13.00	V	-39.51
190							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1402.920	-74.15	7.92	1.04	-71.57	-13.00	H	-58.57
2086.856	-70.10	8.73	1.22	-66.89	-13.00	H	-53.89
3041.641	-65.47	7.17	1.26	-63.86	-13.00	H	-50.86
4908.444	-60.95	5.69	1.71	-61.27	-13.00	H	-48.27
7172.406	-60.55	10.07	1.77	-56.55	-13.00	H	-43.55
10560.940	-58.88	12.54	1.93	-52.57	-13.00	H	-39.57
1270.334	-74.02	7.21	1.00	-72.11	-13.00	V	-59.11
1759.638	-38.64	8.84	1.15	-35.25	-13.00	V	-22.25
2513.013	-39.44	6.81	1.24	-38.17	-13.00	V	-25.17
3342.042	-45.90	7.59	1.36	-43.97	-13.00	V	-30.97
4676.696	-60.95	6.20	1.68	-60.73	-13.00	V	-47.73
7702.278	-60.98	11.52	1.82	-55.58	-13.00	V	-42.58

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251							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1188.980	-72.83	6.73	0.97	-71.37	-13.00	H	-58.37
2108.213	-69.00	8.62	1.22	-65.90	-13.00	H	-52.90
2905.419	-66.04	7.05	1.25	-64.54	-13.00	H	-51.54
4202.500	-62.05	6.60	1.61	-61.36	-13.00	H	-48.36
6662.007	-60.92	9.36	1.76	-57.62	-13.00	H	-44.62
10036.730	-61.08	13.26	1.85	-53.97	-13.00	H	-40.97
1241.562	-73.90	7.04	0.99	-72.15	-13.00	V	-59.15
1913.838	-59.82	9.08	1.19	-56.23	-13.00	V	-43.23
3384.850	-45.65	7.65	1.38	-43.68	-13.00	V	-30.68
5490.177	-59.90	6.57	1.75	-59.38	-13.00	V	-46.38
7508.688	-59.92	10.80	1.80	-55.22	-13.00	V	-42.22
9636.161	-62.08	13.82	1.88	-54.44	-13.00	V	-41.44

GPRS 1900:

512							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1672.296	-59.78	8.70	1.12	-52.20	-13.00	H	-39.20
1968.184	-65.47	9.16	1.21	-57.52	-13.00	H	-44.52
2468.631	-47.61	6.94	1.23	-41.90	-13.00	H	-28.90
3700.260	-60.10	7.29	1.48	-54.29	-13.00	H	-41.29
7604.867	-62.65	11.16	1.81	-53.30	-13.00	H	-40.30
10269.32	-61.22	12.93	1.88	-50.17	-13.00	H	-37.17
1371.145	-74.38	7.76	1.03	-67.65	-13.00	V	-54.65
1728.561	-55.50	8.79	1.14	-47.85	-13.00	V	-34.85
2468.631	-43.58	6.94	1.23	-37.87	-13.00	V	-24.87
4570.772	-62.17	6.44	1.66	-57.39	-13.00	V	-44.39
6445.156	-61.91	9.33	1.77	-54.35	-13.00	V	-41.35
8973.250	-62.83	13.76	1.96	-51.03	-13.00	V	-38.03



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661							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1706.700	-53.78	8.76	1.13	-46.15	-13.00	H	-33.15
1988.327	-65.04	9.19	1.21	-57.06	-13.00	H	-44.06
3747.656	-64.70	7.18	1.50	-59.02	-13.00	H	-46.02
5631.725	-51.75	7.55	1.76	-45.96	-13.00	H	-32.96
7860.737	-62.62	12.10	1.84	-52.36	-13.00	H	-39.36
9370.083	-62.79	13.94	1.92	-50.77	-13.00	H	-37.77
1333.284	-75.39	7.56	1.02	-68.85	-13.00	V	-55.85
1759.638	-57.90	8.84	1.15	-50.21	-13.00	V	-37.21
3018.502	-65.28	7.13	1.26	-59.41	-13.00	V	-46.41
4736.600	-61.99	6.06	1.68	-57.61	-13.00	V	-44.61
6903.705	-61.02	9.60	1.75	-53.17	-13.00	V	-40.17
9636.161	-63.21	13.82	1.88	-51.27	-13.00	V	-38.27
810							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1115.673	-71.77	6.29	0.95	-66.43	-13.00	H	-53.43
1795.839	-57.60	8.90	1.16	-49.86	-13.00	H	-36.86
2468.631	-45.53	6.94	1.23	-39.82	-13.00	H	-26.82
4490.048	-62.02	6.60	1.65	-57.07	-13.00	H	-44.07
7547.013	-61.07	10.94	1.80	-51.93	-13.00	H	-38.93
9859.472	-62.76	13.51	1.86	-51.11	-13.00	H	-38.11
1621.985	-65.85	8.62	1.11	-58.34	-13.00	V	-45.34
1795.839	-54.46	8.9	1.16	-46.72	-13.00	V	-33.72
2468.631	-45.72	6.94	1.23	-40.01	-13.00	V	-27.01
4444.562	-61.97	6.60	1.64	-57.01	-13.00	V	-44.01
6478.053	-61.36	9.26	1.77	-53.87	-13.00	V	-40.87
9441.913	-62.17	13.97	1.91	-50.11	-13.00	V	-37.11



EGPRS(8PSK) 850:

128							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1267.104	-73.13	7.19	1.00	-71.24	-13.00	H	-58.24
2055.225	-69.57	8.90	1.22	-66.19	-13.00	H	-53.19
2818.011	-63.93	7.00	1.24	-62.47	-13.00	H	-49.47
3672.11	-63.79	7.36	1.47	-62.20	-13.00	H	-49.20
5617.407	-58.95	7.45	1.76	-57.56	-13.00	H	-44.56
8334.700	-61.63	13.09	1.89	-54.73	-13.00	H	-41.73
1364.182	-73.15	7.72	1.03	-70.76	-13.00	V	-57.76
2162.567	-69.14	8.34	1.22	-66.32	-13.00	V	-53.32
3283.018	-51.77	7.51	1.34	-49.90	-13.00	V	-36.90
5560.500	-60.43	7.02	1.75	-59.46	-13.00	V	-46.46
7508.688	-60.54	10.80	1.80	-55.84	-13.00	V	-42.84
9960.375	-60.40	13.37	1.85	-53.18	-13.00	V	-40.18
190							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1329.894	-73.24	7.54	1.02	-71.02	-13.00	H	-58.02
2146.115	-68.01	8.43	1.22	-65.10	-13.00	H	-52.10
3342.042	-52.59	7.59	1.36	-50.66	-13.00	H	-37.66
5560.500	-59.57	7.02	1.75	-58.6	-13.00	H	-45.60
7470.558	-58.23	10.72	1.80	-53.61	-13.00	H	-40.61
9490.104	-62.48	13.99	1.90	-54.69	-13.00	H	-41.69
1672.296	-44.83	8.70	1.12	-41.55	-13.00	V	-28.55
2513.013	-47.86	6.81	1.24	-46.59	-13.00	V	-33.59
4004.083	-63.36	6.60	1.58	-62.64	-13.00	V	-49.64
5574.673	-60.13	7.13	1.75	-59.05	-13.00	V	-46.05
8462.975	-61.15	13.27	1.90	-54.08	-13.00	V	-41.08
11027.98	-57.68	12.04	2.01	-51.95	-13.00	V	-38.95

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251							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1360.714	-73.42	7.70	1.03	-71.05	-13.00	H	-58.05
1948.245	-70.89	9.13	1.20	-67.26	-13.00	H	-54.26
3384.850	-55.45	7.65	1.38	-53.48	-13.00	H	-40.48
5660.469	-60.41	7.76	1.76	-58.71	-13.00	H	-45.71
7604.867	-60.92	11.16	1.81	-55.87	-13.00	H	-42.87
10036.73	-60.28	13.26	1.85	-53.17	-13.00	H	-40.17
1326.513	-73.63	7.52	1.02	-71.43	-13.00	V	-58.43
2184.699	-67.84	8.23	1.23	-65.14	-13.00	V	-52.14
3384.850	-50.85	7.65	1.38	-48.88	-13.00	V	-35.88
5504.170	-60.21	6.60	1.75	-59.66	-13.00	V	-46.66
7820.819	-60.51	11.95	1.83	-54.69	-13.00	V	-41.69
9370.083	-61.43	13.94	1.92	-53.71	-13.00	V	-40.71

EGPRS(8PSK) 1900:

512							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1150.279	-71.84	6.51	0.96	-66.29	-13.00	H	-53.29
1711.050	-32.01	8.76	1.13	-24.38	-13.00	H	-11.38
3570.714	-66.77	7.62	1.44	-60.59	-13.00	H	-47.59
5747.586	-62.42	8.40	1.76	-55.78	-13.00	H	-42.78
7547.013	-61.68	10.94	1.80	-52.54	-13.00	H	-39.54
9834.406	-63.09	13.55	1.86	-51.40	-13.00	H	-38.40
1336.682	-73.78	7.57	1.02	-67.23	-13.00	V	-56.38
2013.795	-61.25	9.12	1.22	-53.35	-13.00	V	-42.50
3700.260	-60.44	7.29	1.48	-54.63	-13.00	V	-43.78
5910.798	-62.60	9.56	1.77	-54.81	-13.00	V	-43.96
7489.599	-61.63	10.76	1.80	-52.67	-13.00	V	-41.82
9370.083	-62.28	13.94	1.92	-50.26	-13.00	V	-39.41

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661							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1706.700	-60.02	8.76	1.13	-52.39	-13.00	H	-39.39
2468.631	-45.08	6.94	1.23	-39.37	-13.00	H	-26.37
4536.000	-62.10	6.49	1.65	-57.26	-13.00	H	-44.26
6678.987	-60.72	9.37	1.76	-53.11	-13.00	H	-40.11
8637.084	-63.48	13.45	1.92	-51.95	-13.00	H	-38.95
10480.59	-60.55	12.64	1.92	-49.83	-13.00	H	-36.83
1326.513	-74.38	7.52	1.02	-67.88	-13.00	V	-54.88
1706.700	-52.68	8.76	1.13	-45.05	-13.00	V	-32.05
2468.631	-44.58	6.94	1.23	-38.87	-13.00	V	-25.87
4582.422	-61.98	6.41	1.66	-57.23	-13.00	V	-44.23
6478.053	-60.86	9.26	1.77	-53.37	-13.00	V	-40.37
9441.913	-63.24	13.97	1.91	-51.18	-13.00	V	-38.18
810							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1170.959	-72.38	6.64	0.97	-66.71	-13.00	H	-53.71
1728.561	-62.39	8.79	1.14	-54.74	-13.00	H	-41.74
2468.631	-44.41	6.94	1.23	-38.70	-13.00	H	-25.70
4676.696	-61.64	6.20	1.68	-57.12	-13.00	H	-44.12
6494.564	-60.65	9.23	1.76	-53.18	-13.00	H	-40.18
9441.913	-62.57	13.97	1.91	-50.51	-13.00	H	-37.51
1728.561	-55.23	8.79	1.14	-47.58	-13.00	V	-34.58
2076.259	-61.53	8.79	1.22	-53.96	-13.00	V	-40.96
3184.250	-66.01	7.38	1.31	-59.94	-13.00	V	-46.94
4455.890	-62.53	6.60	1.64	-57.57	-13.00	V	-44.57
7643.683	-62.03	11.3	1.82	-52.55	-13.00	V	-39.55
9960.375	-62.01	13.37	1.85	-50.49	-13.00	V	-37.49



WCDMA 850:

4132								
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1353.804	-75.05	7.67	1.02	-68.40	-70.55	-13.00	H	-57.55
1913.838	-70.73	9.08	1.19	-62.84	-64.99	-13.00	H	-51.99
3026.195	-65.79	7.15	1.26	-59.9	-62.05	-13.00	H	-49.05
5689.360	-62.52	7.98	1.76	-56.3	-58.45	-13.00	H	-45.45
7470.558	-62.12	10.72	1.80	-53.20	-55.35	-13.00	H	-42.35
10036.730	-61.9	13.26	1.85	-50.49	-52.64	-13.00	H	-39.64
1138.626	-73.38	6.44	0.96	-67.9	-70.05	-13.00	V	-57.05
1913.838	-69.16	9.08	1.19	-61.27	-63.42	-13.00	V	-50.42
3625.669	-65.91	7.48	1.45	-59.88	-62.03	-13.00	V	-49.03
5674.896	-61.58	7.87	1.76	-55.47	-57.62	-13.00	V	-44.62
7489.599	-61.74	10.76	1.8	-52.78	-54.93	-13.00	V	-41.93
9562.854	-63.36	13.93	1.89	-51.32	-53.47	-13.00	V	-40.47
4182								
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1138.626	-72.90	6.44	0.96	-67.42	-69.57	-13.00	H	-56.57
1913.838	-69.28	9.08	1.19	-61.39	-63.54	-13.00	H	-50.54
3738.129	-65.38	7.20	1.5	-59.68	-61.83	-13.00	H	-48.83
5073.591	-61.24	5.67	1.72	-57.29	-59.44	-13.00	H	-46.44
7566.249	-61.32	11.02	1.81	-52.11	-54.26	-13.00	H	-41.26
9441.913	-63.12	13.97	1.91	-51.06	-53.21	-13.00	H	-40.21
1135.731	-73.11	6.42	0.96	-67.65	-69.8	-13.00	V	-56.8
1672.296	-56.51	8.70	1.12	-48.93	-51.08	-13.00	V	-38.08
2468.631	-55.96	6.94	1.23	-50.25	-52.40	-13.00	V	-39.40
4594.102	-62.13	6.39	1.66	-57.40	-59.55	-13.00	V	-46.55
6428.771	-61.51	9.36	1.77	-53.92	-56.07	-13.00	V	-43.07
9562.854	-63.92	13.93	1.89	-51.88	-54.03	-13.00	V	-41.03

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4233								
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	ERP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1104.371	-72.87	6.22	0.95	-67.60	-69.75	-13.00	H	-56.75
1913.838	-67.07	9.08	1.19	-59.18	-61.33	-13.00	H	-48.33
3552.582	-65.94	7.66	1.43	-59.71	-61.86	-13.00	H	-48.86
5865.832	-62.81	9.25	1.77	-55.33	-57.48	-13.00	H	-44.48
7190.687	-61.31	10.11	1.77	-52.97	-55.12	-13.00	H	-42.12
9562.854	-63.75	13.93	1.89	-51.71	-53.86	-13.00	H	-40.86
1689.410	-59.31	8.73	1.13	-51.71	-53.86	-13.00	V	-40.86
2468.631	-53.59	6.94	1.23	-47.88	-50.03	-13.00	V	-37.03
4536.000	-61.72	6.49	1.65	-56.88	-59.03	-13.00	V	-46.03
6299.178	-61.78	9.59	1.77	-53.96	-56.11	-13.00	V	-43.11
8725.477	-63.72	13.54	1.93	-52.11	-54.26	-13.00	V	-41.26
11341.140	-58.30	11.32	2.06	-49.04	-51.19	-13.00	V	-38.19

WCDMA1900:

9262							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1135.731	-72.68	6.42	0.96	-67.22	-13.00	H	-54.22
1928.509	-48.20	9.10	1.20	-40.30	-13.00	H	-27.30
3700.260	-64.57	7.29	1.48	-58.76	-13.00	H	-45.76
5925.863	-62.19	9.67	1.78	-54.30	-13.00	H	-41.3
7643.683	-62.36	11.30	1.82	-52.88	-13.00	H	-39.88
9346.262	-63.69	13.93	1.92	-51.68	-13.00	H	-38.68
1420.890	-74.74	8.01	1.05	-67.78	-13.00	V	-54.78
1928.509	-48.99	9.10	1.20	-41.09	-13.00	V	-28.09
3662.775	-64.52	7.38	1.47	-58.61	-13.00	V	-45.61
5732.974	-61.84	8.29	1.76	-55.31	-13.00	V	-42.31
7547.013	-61.38	10.94	1.80	-52.24	-13.00	V	-39.24
9859.472	-62.33	13.51	1.86	-50.68	-13.00	V	-37.68



9400							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1150.279	-72.24	6.51	0.96	-66.69	-13.00	H	-53.69
1953.211	-51.80	9.14	1.21	-43.87	-13.00	H	-30.87
3588.939	-66.27	7.57	1.44	-60.14	-13.00	H	-47.14
5850.919	-62.88	9.14	1.77	-55.51	-13.00	H	-42.51
7413.726	-61.30	10.60	1.79	-52.49	-13.00	H	-39.49
9859.472	-62.79	13.51	1.86	-51.14	-13.00	H	-38.14
1464.963	-73.63	8.23	1.06	-66.46	-13.00	V	-53.46
1953.211	-50.37	9.14	1.21	-42.44	-13.00	V	-29.44
3561.636	-66.24	7.64	1.44	-60.04	-13.00	V	-47.04
5865.832	-62.67	9.25	1.77	-55.19	-13.00	V	-42.19
7941.185	-63.05	12.38	1.84	-52.51	-13.00	V	-39.51
10999.95	-59.99	12.10	2.00	-49.89	-13.00	V	-36.89
9538							
Frequency (MHz)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable loss (dB)	EIRP (dBm)	Limit (dBm)	Antenna polarize	Margin (dB)
1170.959	-73.36	6.64	0.97	-67.69	-13.00	H	-54.69
1988.327	-51.66	9.19	1.21	-43.68	-13.00	H	-30.68
3709.691	-64.99	7.27	1.48	-59.2	-13.00	H	-46.20
5689.36	-61.41	7.98	1.76	-55.19	-13.00	H	-42.19
7880.772	-62.85	12.17	1.84	-52.52	-13.00	H	-39.52
10560.94	-60.56	12.54	1.93	-49.95	-13.00	H	-36.95
1159.096	-73.91	6.56	0.96	-68.31	-13.00	V	-55.31
1988.327	-49.81	9.19	1.21	-41.83	-13.00	V	-28.83
3241.498	-66.26	7.46	1.33	-60.13	-13.00	V	-47.13
5791.646	-62.72	8.72	1.77	-55.77	-13.00	V	-42.77
7781.104	-62.35	11.81	1.83	-52.37	-13.00	V	-39.37
10139.45	-61.96	13.12	1.86	-50.70	-13.00	V	-37.70

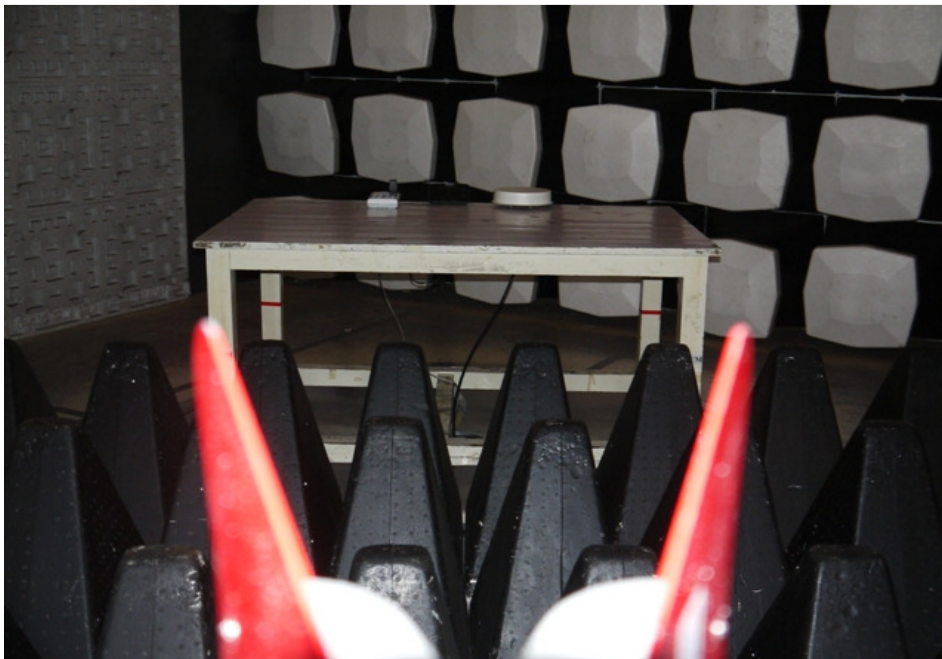
NOTE:

- 1) The disturbance above 12GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

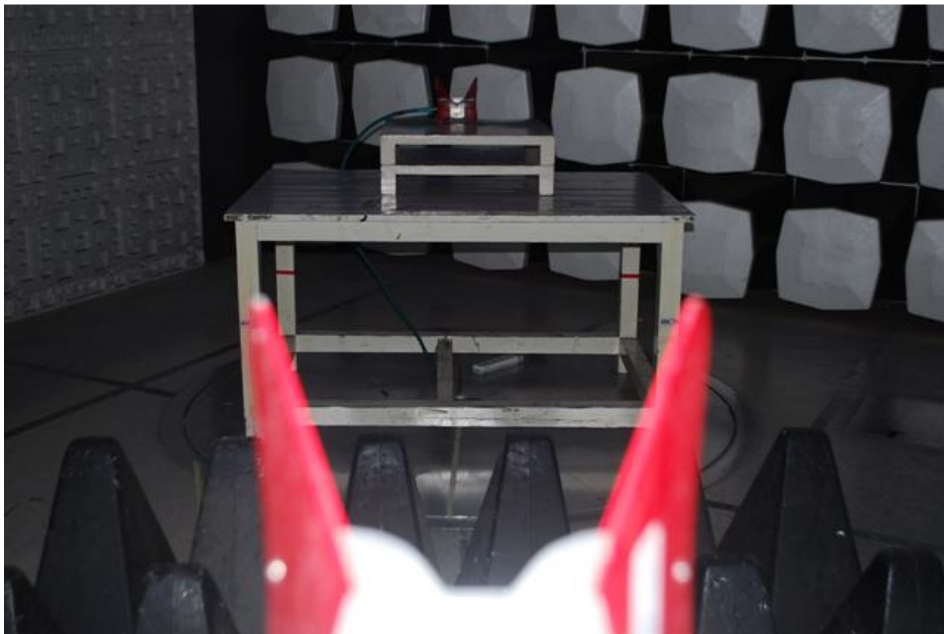
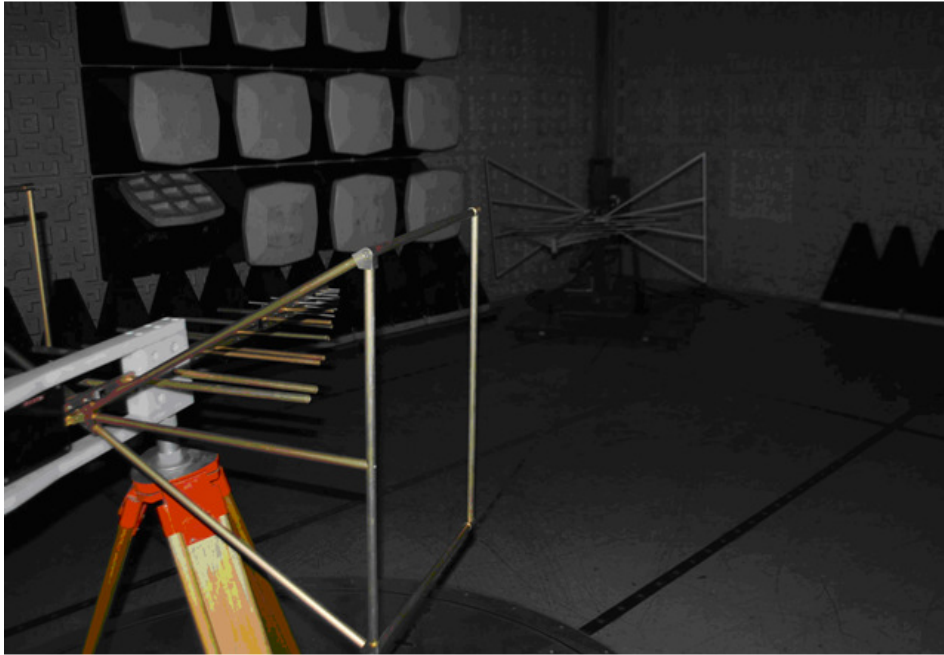
6 Photographs - EUT Test Setup

(Test Mode No.: AD802)

6.1 Radiated Spurious Emission Test Setup



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7 Photographs - EUT Constructional Details

Refer to Report No. SZEM130600343101 for EUT external and internal photos.