



CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

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TEST REPORT

Report No.: **CTC20211259E07**

FCC ID.....: **2AYD5-I21M01**

Applicant.....: **Imin Technology Pte Ltd**

Address.....: **11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943**

Manufacturer.....: **Imin Technology Pte Ltd**

Address.....: **11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943**

Product Name.....: **Mobile POS**

Trade Mark.....: **iMin**

Model/Type reference.....: **I21M01**

Listed Model(s): **N/A**

Standard.....: **FCC CFR47 PART 22H, 24E**

Date of receipt of test sample.: **Sep. 10, 2021**

Date of testing.....: **Sep. 11, 2021 ~ Oct. 21, 2021**

Date of issue.....: **Oct. 22, 2021**

Result.....: **PASS**

Compiled by:

(Printed name+signature) Terry Su

Supervised by:

(Printed name+signature) Miller Ma

Approved by:

(Printed name+signature) Totti Zhao

Testing Laboratory Name....: CTC Laboratories, Inc.

Address.....: **1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,
Shenzhen, Guangdong, China**

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1. SUMMARY

1.1. Test Standards

[FCC Rules Part 2:](#) FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[FCC Rules Part 22:](#) PRIVATE LAND MOBILE RADIO SERVICES.

[FCC Rules Part 24:](#) PUBLIC MOBILE SERVICES

[TIA/EIA 603 E March 2016:](#) Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[ANSI C63.26: 2015:](#) American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[KDB 971168 D01 Power Meas License Digital Systems v03:](#) MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

[RSS-Gen Issue 5:](#) General Requirements for Compliance of Radio Apparatus.

[RSS-132 Issue 3:](#) Cellular Telephone Systems Operating in the Bands 824-849MHz and 869-894MHz.

[RSS-133 Issue 6:](#) 2 GHz Personal Communications Services.

1.2. Report version

Revised No.	Date of issue	Description
01	Oct. 22, 2021	Original

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1.3. Test Description

Test Item	Section in CFR 47	RSS Rule	Result	Test Engineer
Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	RSS-132(5.4) RSS-133(6.4)	Pass	Alicia Liu
Peak-to-Average Ratio	Part 24.232 Part 27.50	RSS-132(5.4) RSS-133(6.4)	Pass	Alicia Liu
99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	RSS-GEN(6.6) RSS-133(6.5)	Pass	Alicia Liu
Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	RSS-132(5.5) RSS-133(6.5)	Pass	Alicia Liu
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	RSS-132(5.5) RSS-133(6.5)	Pass	Alicia Liu
Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	RSS-GEN(6.11) RSS-132(5.3)	Pass	Alicia Liu
Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	RSS-GEN(6.11) RSS-132(5.3)	Pass	Alicia Liu
ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	RSS-132(5.4) RSS-133(6.4)	Pass	Alicia Liu
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	RSS-132(5.5) RSS-133(6.5)	Pass	Alicia Liu

Note: The measurement uncertainty is not included in the test result.

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, Part 22, Part 24, Part 27, and Part 90, FCC KDB 971168 D01 v03r01/ D02 v02r01, KDB 412172 D01 v01r01, ANSI C63.26:2015, IC RSS-132, RSS-133 and RSS-139.



1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

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

CNAS-Lab Code: L5365

CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025:2017 General Requirements) the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. 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 951311, Aug 26, 2017.

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1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTC Laboratories, Inc. is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)
Emission Mask	-----	(1)
Modulation Characteristic	-----	(1)
Transmitter Frequency Behavior	-----	(1)

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	20°C-25°C
Relative Humidity:	50 %-55 %
Air Pressure:	101kPa

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2. GENERAL INFORMATION

2.1. Client Information

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2.2. General Description of EUT

Product Name:	Mobile POS
Trade Mark:	iMin
Model/Type reference:	I21M01
Listed Model(s):	N/A
Power supply:	5Vdc/2A from AC/DC Adapter 7.4Vdc from 2600mAh Li-ion Battery
Adapter model:	TPA-46050200UU Input:100-240V~ 50/60Hz 0.3A Output: 5Vdc/2A
Hardware version:	Z2PRO_MB_UM512_V2.0
Software version:	Neostra_Z2Pro_testinage_003_20210714
GSM	
Operation Band:	GSM 850: UL: 824MHz~849MHz, DL: 869MHz~894MHz PCS 1900: UL: 1850MHz~1910, DL: 1930MHz~1990MHz
Supported Type:	GSM/GPRS/EGPRS
Modulation Type:	GMSK for GSM/GPRS, 8PSK for EGPRS
Antenna Type:	FPC Antenna
Antenna Gain:	Main Antenna: GSM 850: 0.6dBi PCS 1900: 0.5dBi
WCDMA	
Operation Band:	Band II: UL: 1852.4MHz~1907.6MHz, DL: 1932.6MHz~1987.4MHz Band V: UL: 826.4MHz~846.6MHz, DL: 871.6MHz~1891.4MHz
Modulation Type:	QPSK for WCDMA/HSUPA/HSDPA
Antenna Type:	FPC Antenna
Antenna Gain:	Main Antenna: WCDMA II: 0.5dBi WCDMA V: 0.6dBi



2.3. Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing.

Test Frequency:

GSM 850		PCS 1900	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

WCDMA Band II		WCDMA Band V	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.40	4132	826.40
9400	1880.00	4183	836.60
9538	1907.60	4233	846.60



2.4. Measurement Instruments List

Output Power (Radiated) & Radiated Spurious Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100967	Dec. 25, 2021
2	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 25, 2021
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021
4	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4181	Dec. 25, 2021
5	Spectrum Analyzer	HP	8563E	02052	Dec. 25, 2021
6	Horn Antenna	Schwarzbeck	BBHA 9120D	648	Dec. 25, 2021
7	Horn Antenna	Schwarzbeck	BBHA 9120D	649	Dec. 25, 2021
8	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021
9	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25842	Dec. 25, 2021
10	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021
11	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
12	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
13	Signal Generator	Agilent	N5182A	1019356	Dec. 25, 2021
14	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
15	Antenna Mast	UC	UC3000	N/A	N/A
16	Antenna mast	MATURO	TAM-4.0-P	N/A	N/A
17	Turn Table	UC	UC3000	N/A	N/A
18	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021
19	Cable Above 1GHz	Hubersuhner	SUCOFLEX102	DA1580	Dec. 25, 2021

Output Power(Conducted) & Occupied Bandwidth & Emission Bandwidth & Band Edge Compliance & Conducted Spurious Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FSU	100105	Dec. 25, 2021
3	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
4	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
5	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021
6	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 25, 2021
7	Attenuator	Chengdu E-Microwave	EMCAXX-10RNZ-3	---	Dec. 25, 2021

Frequency Stability					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FSU	100105	Dec. 25, 2021

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3	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
4	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
5	Climate Chamber	ESPEC	EL-10KA	05107008	Dec. 25, 2021

Note: 1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

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3. TEST ITEM AND RESULTS

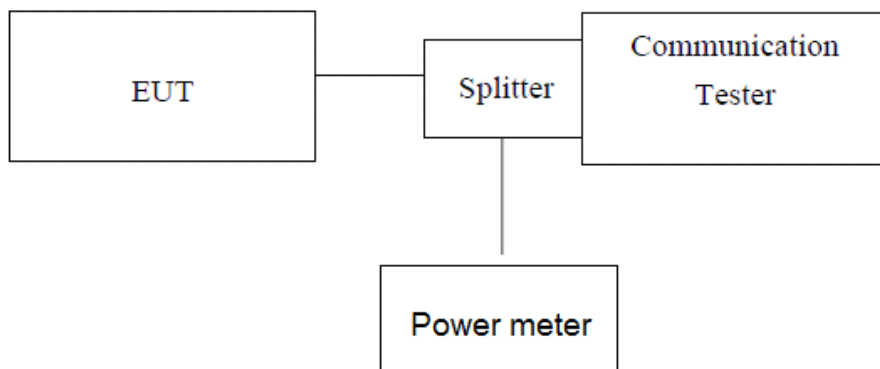
3.1. Conducted Output Power

LIMIT

FCC: \$2.1046, \$22.913, \$24.232, \$27.50 and \$90.635

IC: RSS132\$5.4; RSS133\$6.4 and RSS139\$6.5.

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure the maximum PK burst power and maximum Avg. burst power.

TEST RESULTS

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GSM850		Conducted Power (dBm)		
		CH128	CH190	CH251
		824.20MHz	836.60MHz	848.80MHz
GSM		34.63	34.52	34.69
GPRS (GMSK)	1TXslot	34.65	34.50	34.68
	2TXslots	32.65	32.52	32.45
	3TXslots	30.73	30.62	30.56
	4TXslots	28.53	28.44	28.41
EGPRS (8PSK)	1TXslot	28.42	28.46	28.04
	2TXslots	28.29	28.41	27.97
	3TXslots	27.05	27.28	26.78
	4TXslots	24.24	24.58	24.04

GSM1900		Conducted Power (dBm)		
		CH512	CH661	CH810
		1850.2MHz	1880.0MHz	1909.8MHz
GSM		31.63	31.47	31.32
GPRS (GMSK)	1TXslot	31.63	31.41	31.24
	2TXslots	29.49	29.20	28.99
	3TXslots	27.94	27.62	27.39
	4TXslots	25.90	25.56	25.30
EGPRS (8PSK)	1TXslot	27.85	28.13	27.57
	2TXslots	27.69	28.10	27.55
	3TXslots	26.38	26.89	26.35
	4TXslots	23.93	24.69	24.07



WCDMA Band II		Conducted Power (dBm)		
		CH9262	CH9400	CH9538
		1852.40	1880.00	1907.60
AMR 12.2K		23.88	24.11	24.09
RMC 12.2K		23.84	24.12	24.05
HSDPA	Subtest-1	24.01	24.24	24.22
	Subtest-2	24.02	24.23	24.23
	Subtest-3	23.70	23.81	23.78
	Subtest-4	24.05	24.26	24.25
HSUPA	Subtest-1	19.93	21.79	21.13
	Subtest-2	22.13	22.13	22.39
	Subtest-3	22.16	22.28	22.43
	Subtest-4	22.20	21.31	22.49
	Subtest-5	24.25	24.02	24.12

WCDMA Band V		Conducted Power (dBm)		
		CH4132	CH4183	CH4233
		826.40	836.60	846.60
AMR 12.2K		24.73	24.72	24.69
RMC 12.2K		24.62	24.80	24.59
HSDPA	Subtest-1	24.01	23.95	24.06
	Subtest-2	24.75	24.77	24.75
	Subtest-3	24.75	24.77	24.72
	Subtest-4	24.74	24.77	24.73
HSUPA	Subtest-1	21.92	22.29	22.34
	Subtest-2	22.50	22.47	22.61
	Subtest-3	22.06	22.51	22.72
	Subtest-4	22.21	21.96	21.15
	Subtest-5	24.24	24.25	24.26

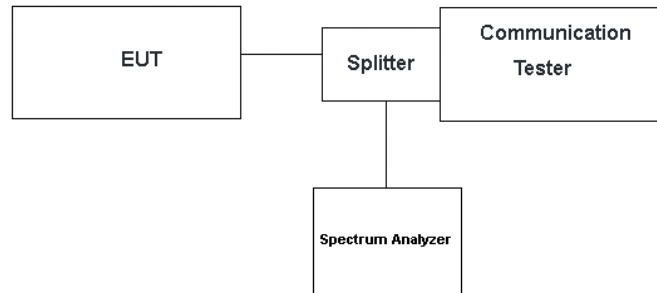
3.2. Peak-to-Average Ratio

LIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

TEST CONFIGURATION

- For Peak-to-Average Ratio



TEST PROCEDURE

- For Peak-to-Average Ratio
1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
 2. The EUT was connected to spectrum and communication tester via a splitter
 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyser.
 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
 6. Record the deviation as Peak to Average Ratio.

TEST RESULTS



EUT Mode	Channel	Frequency (MHz)	Peak-to-Average Ratio(dB)	Limit (dB)	Result
GSM 850 GSM	128	824.20	8.87	13	PASS
	190	836.60	8.90	13	
	251	848.80	9.71	13	
GSM 850 GPRS	128	824.20	9.74	13	
	190	836.60	8.87	13	
	251	848.80	8.87	13	
GSM 850 EGPRS	128	824.20	12.52	13	
	190	836.60	11.36	13	
	251	848.80	11.94	13	
PCS 1900 GSM	512	1850.20	8.93	13	
	661	1880.00	8.93	13	
	810	1909.80	8.93	13	
PCS 1900 GPRS	512	1850.20	8.90	13	
	661	1880.00	9.77	13	
	810	1909.80	9.39	13	
PCS 1900 EGPRS	512	1850.20	11.59	13	
	661	1880.00	11.48	13	
	810	1909.80	12.55	13	



EUT Mode	Channel	Frequency (MHz)	Peak-to-Average Ratio(dB)	Limit (dB)	Result
WCDMA Band II WCDMA	9262	1852.40	2.87	13	PASS
	9400	1880.00	2.93	13	
	9538	1907.60	2.90	13	
WCDMA Band II HSDPA	9262	1852.40	2.96	13	
	9400	1880.00	3.10	13	
	9538	1907.60	3.07	13	
WCDMA Band II HSUPA	9262	1852.40	2.96	13	
	9400	1880.00	3.10	13	
	9538	1907.60	3.07	13	
WCDMA Band V WCDMA	4132	826.40	3.22	13	
	4183	836.60	3.39	13	
	4233	846.60	3.10	13	
WCDMA Band V HSDPA	4132	826.40	3.22	13	
	4183	836.60	3.39	13	
	4233	846.60	3.10	13	
WCDMA Band V HSUPA	4132	826.40	4.75	13	
	4183	836.60	4.84	13	
	4233	846.60	4.78	13	

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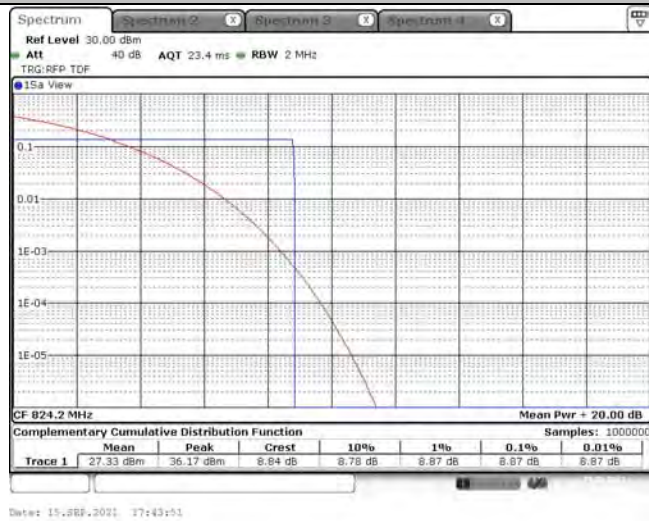
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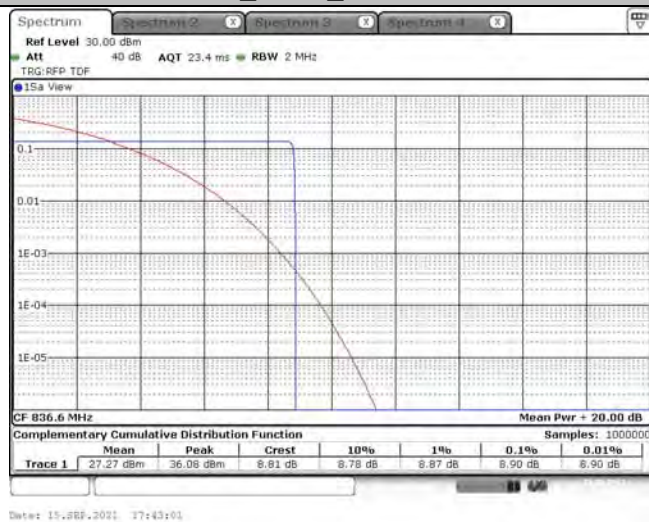
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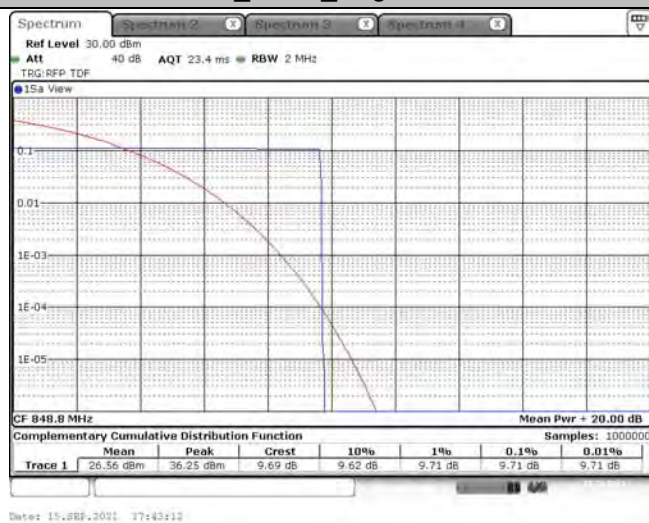
GSM 850_GSM_Lowest channel



GSM 850_GSM_Middle channel



GSM 850_GSM_Highest channel



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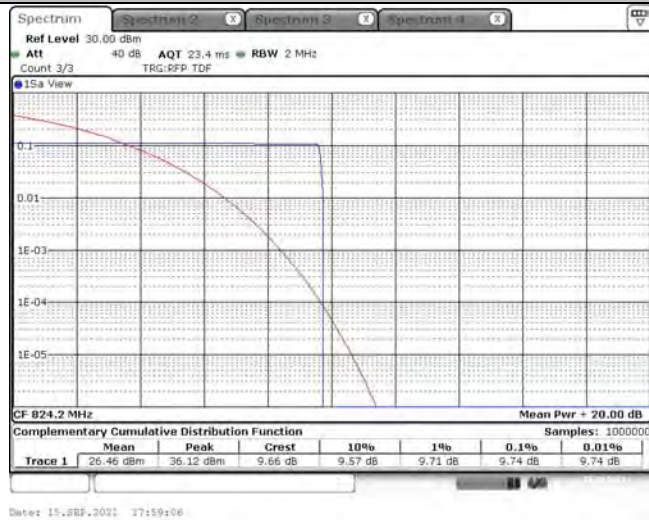
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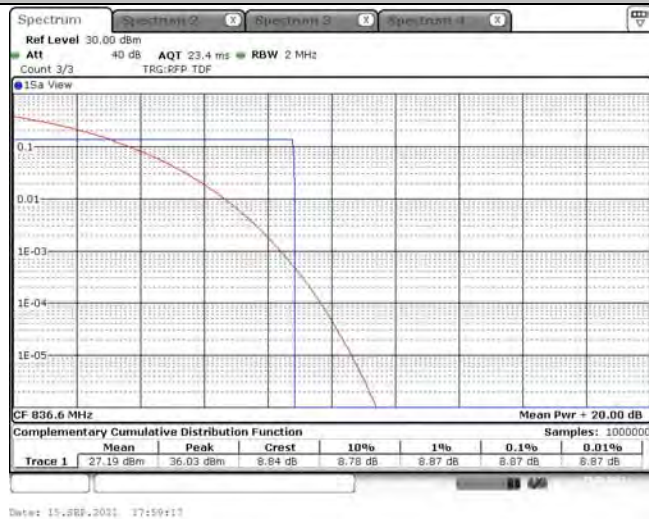
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



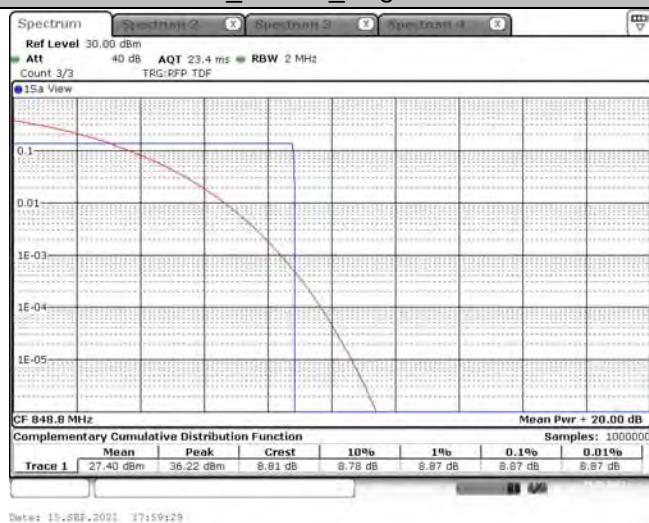
GSM 850_ GPRS_ Lowest channel



GSM 850_ GPRS_ Middle channel



GSM 850_ GPRS_ Highest channel



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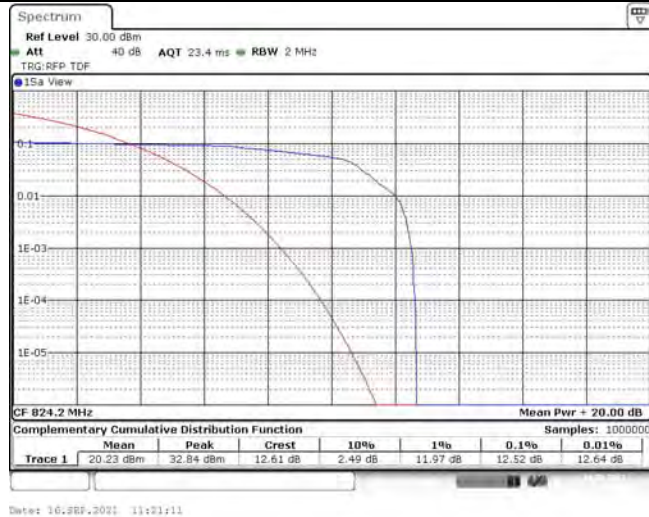
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

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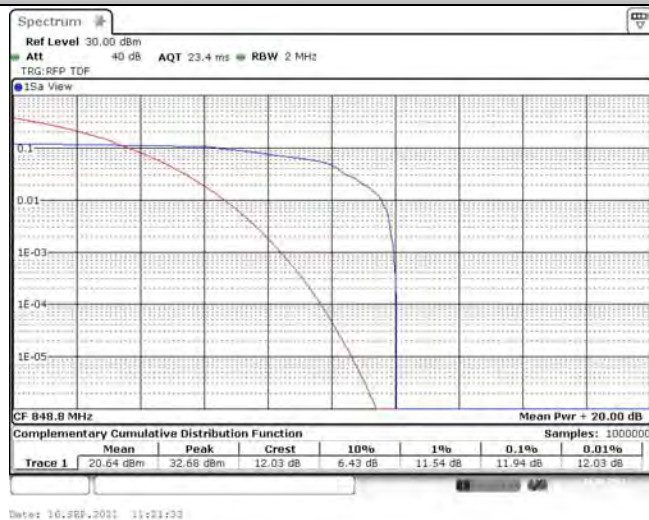
GSM 850_EGPRS_Lowest channel



GSM 850_EGPRS_Middle channel



GSM 850_EGPRS_Highest channel



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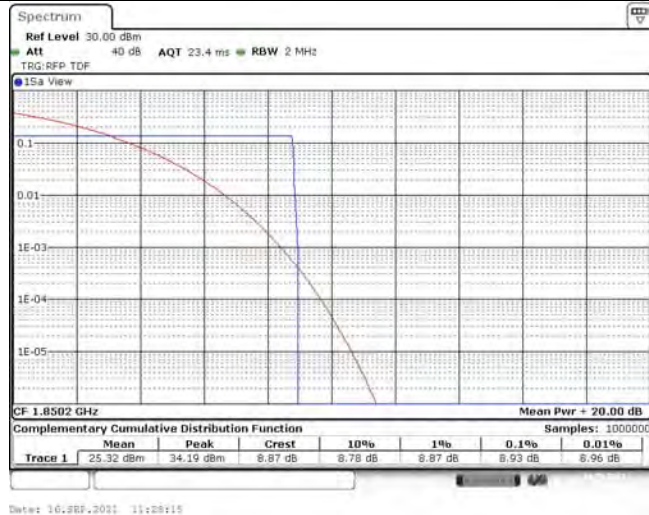
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

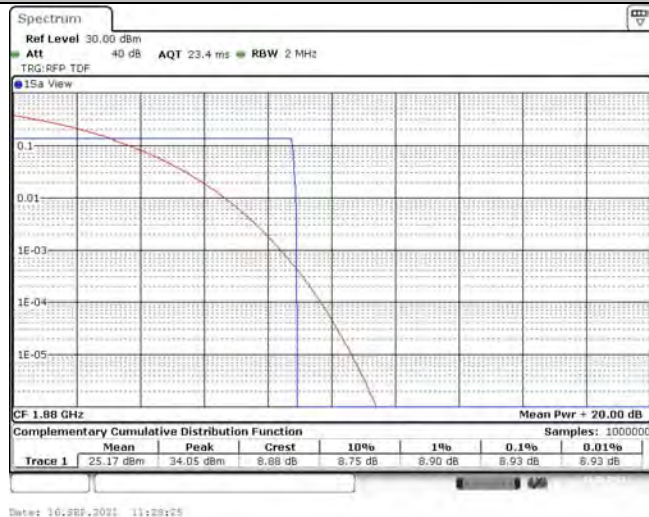
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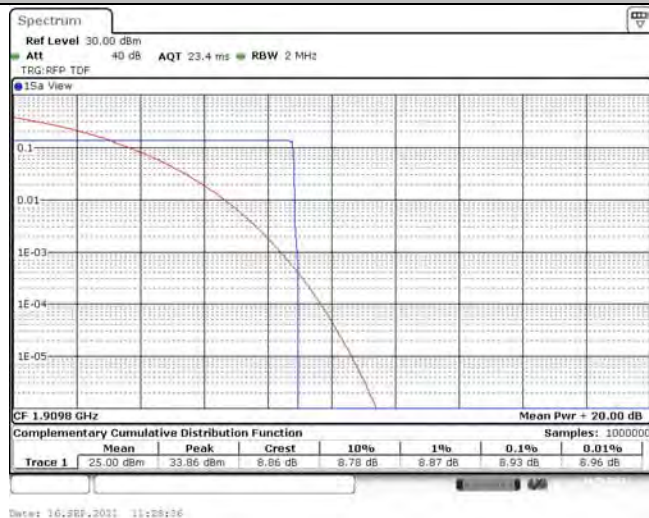
PCS 1900_ GSM_ Lowest channel



PCS 1900_ GSM_ Middle channel



PCS 1900_ GSM_ Highest channel



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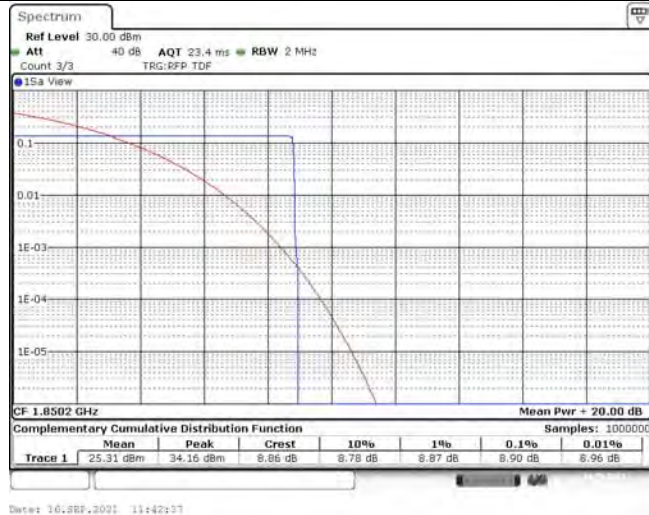
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

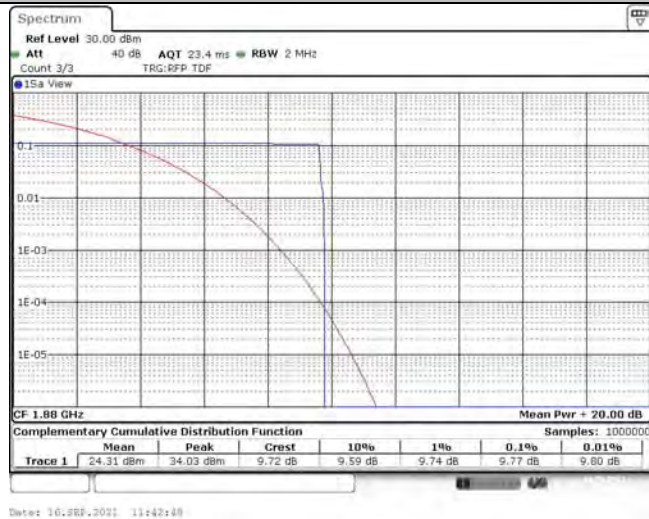
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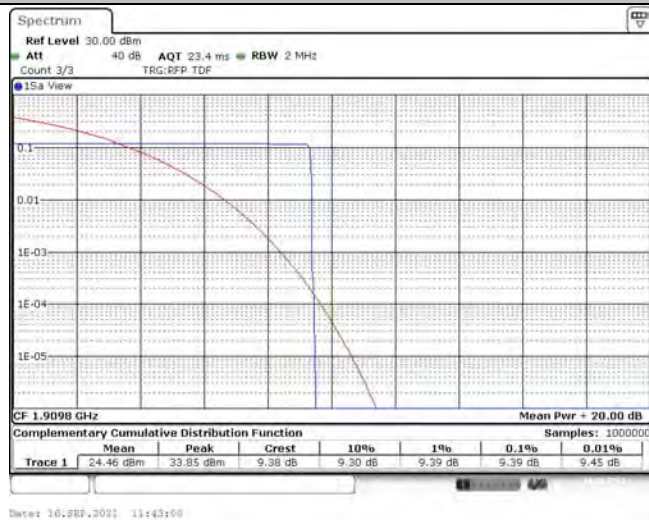
PCS 1900_ GPRS_ Lowest channel



PCS 1900_ GPRS_ Middle channel



PCS 1900_ GPRS_ Highest channel



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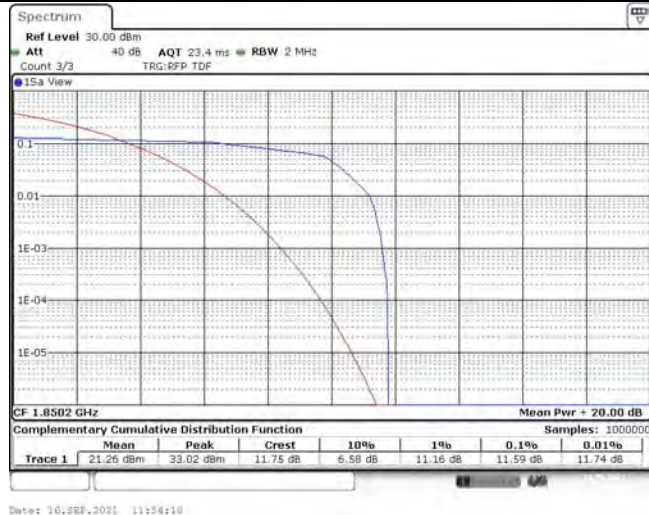
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

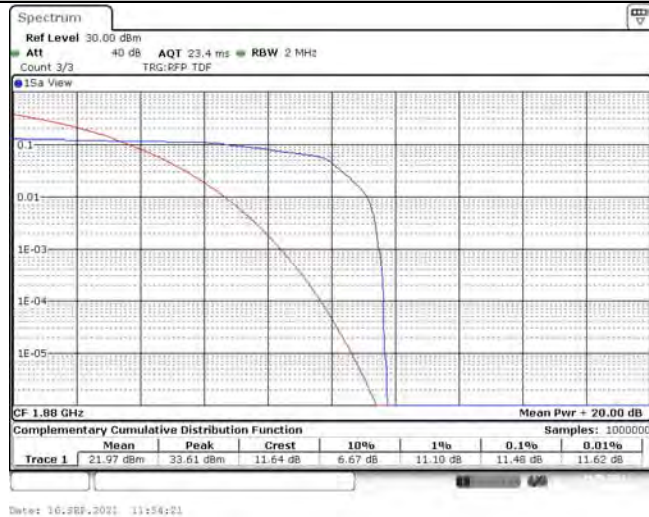
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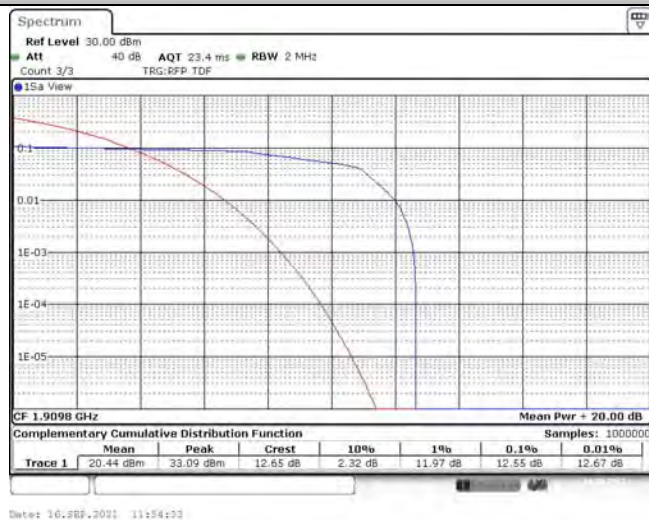
PCS 1900_EGPRS_Lowest channel



PCS 1900_EGPRS_Middle channel



PCS 1900_EGPRS_Highest channel



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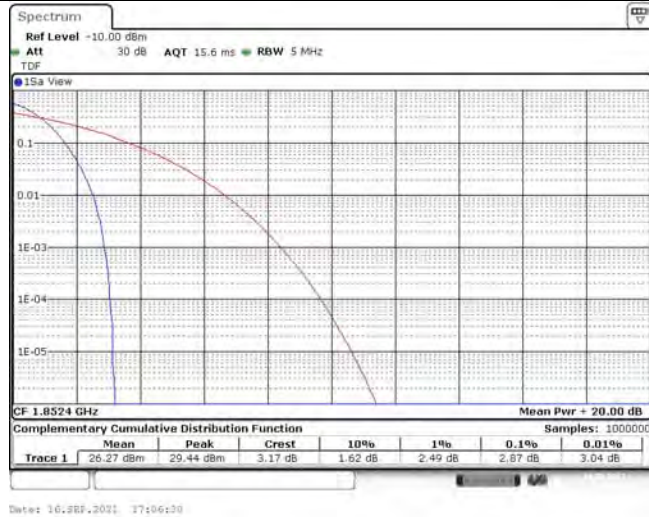
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

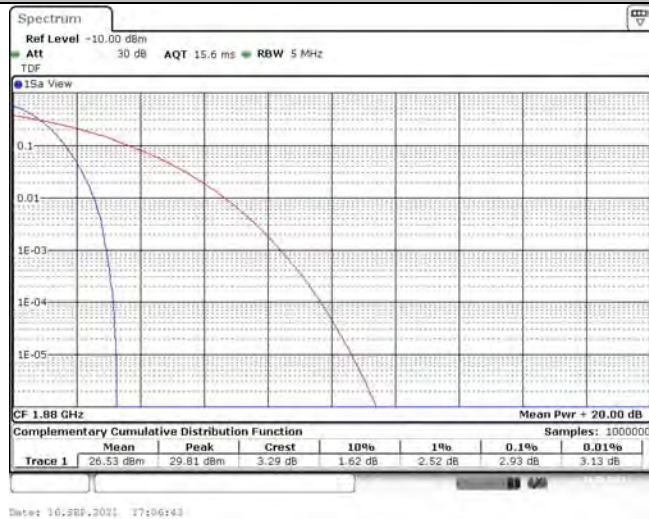
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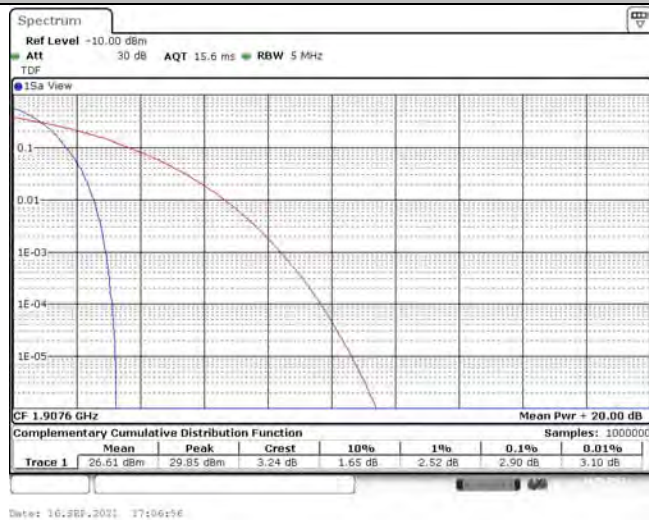
WCDMA Band II_ WCDMA_ Lowest channel



WCDMA Band II_ WCDMA_ Middle channel



WCDMA Band II_ WCDMA_ Highest channel



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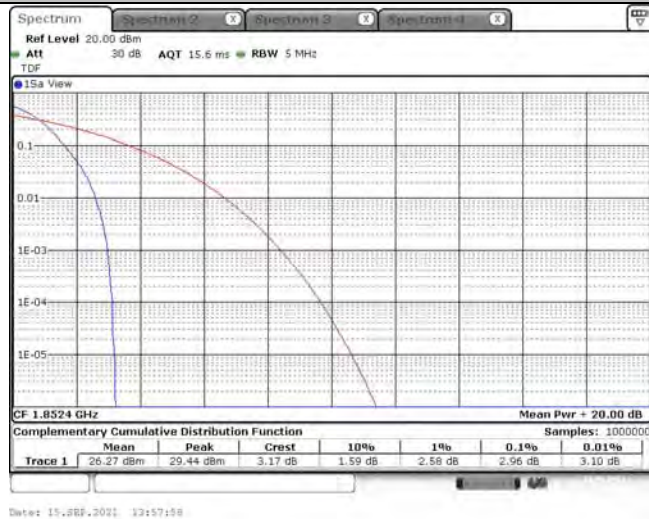
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

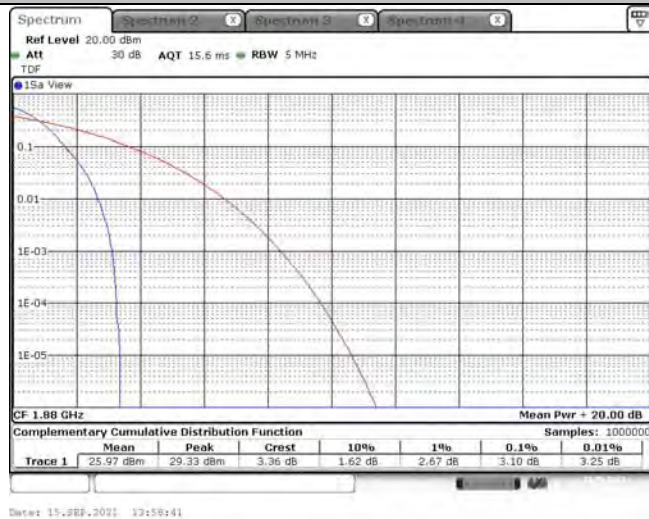
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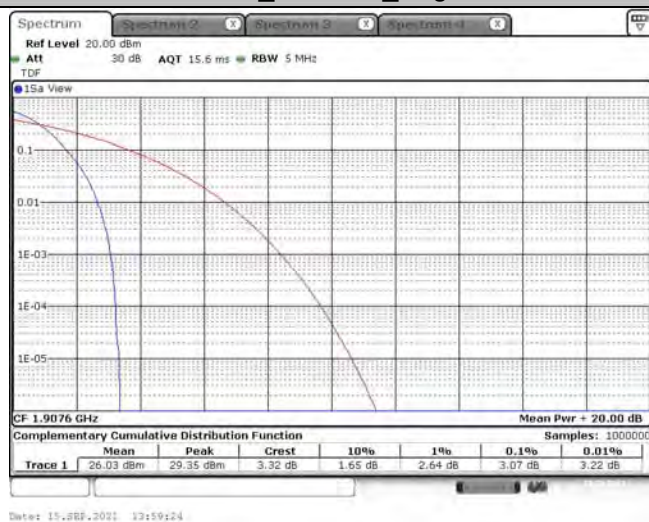
WCDMA Band II_HSDPA_Lowest channel



WCDMA Band II_HSDPA_Middle channel



WCDMA Band II_HSDPA_Highest channel



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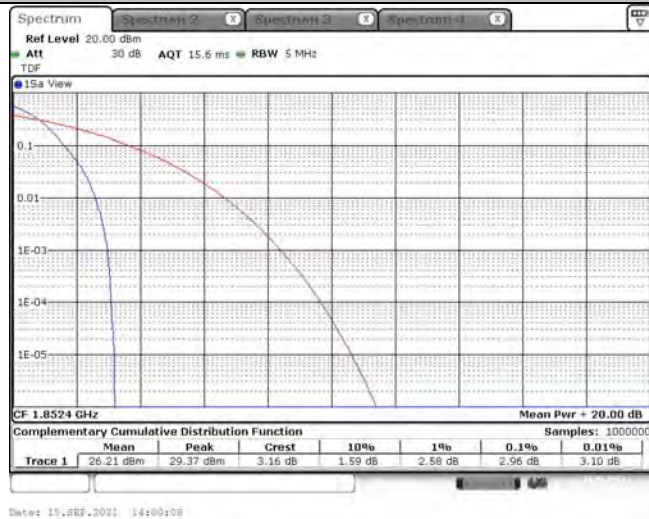
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn

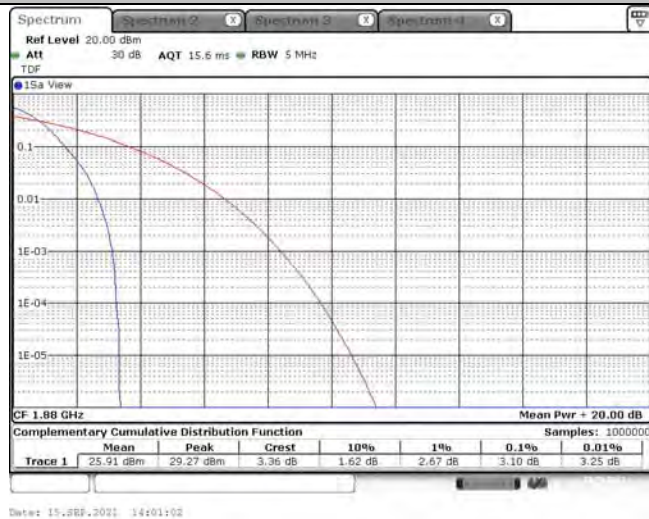


WCDMA Band II_HSUPA_Lowest channel



Date: 15-SEP-2021 14:00:08

WCDMA Band II_HSUPA_Middle channel



Date: 15-SEP-2021 14:01:02

WCDMA Band II_HSUPA_Highest channel



Date: 15-SEP-2021 14:01:55

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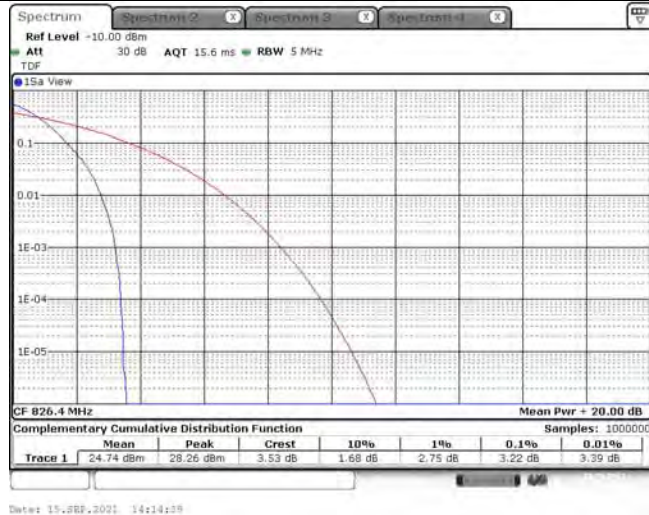
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

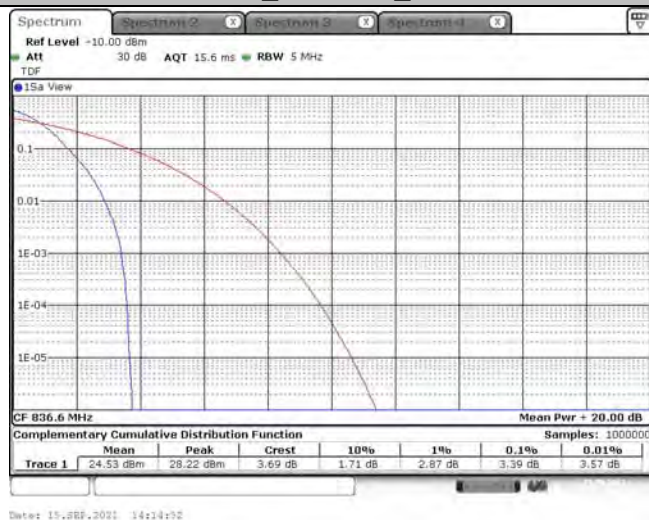
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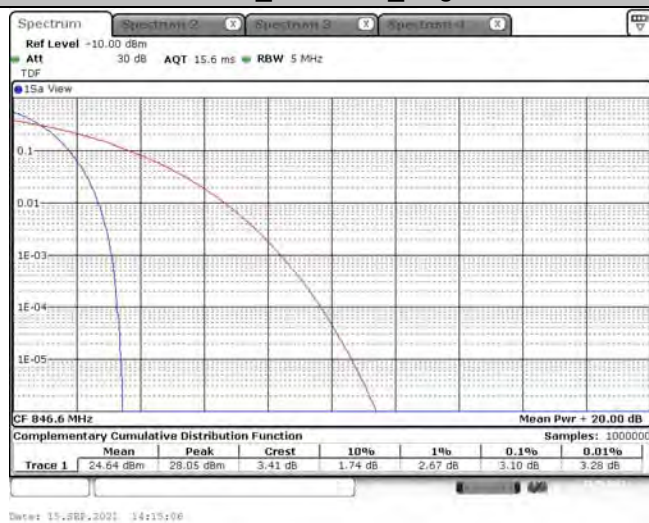
WCDMA Band V_ WCDMA_ Lowest channel



WCDMA Band V_ WCDMA_ Middle channel



WCDMA Band V_ WCDMA_ Highest channel



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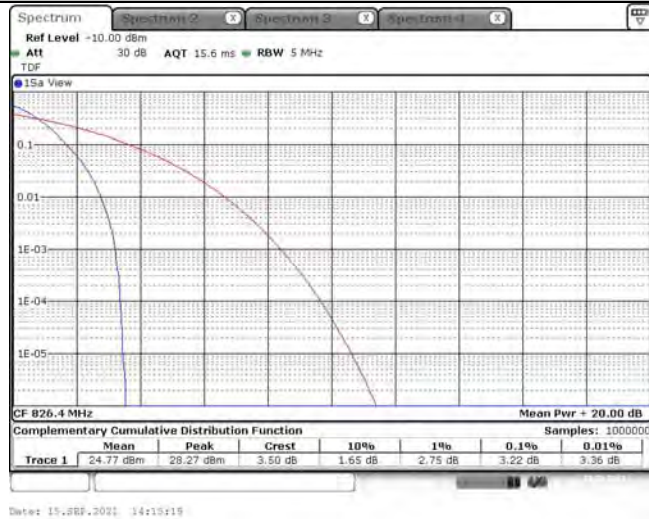
Fax: (86)755-27521011

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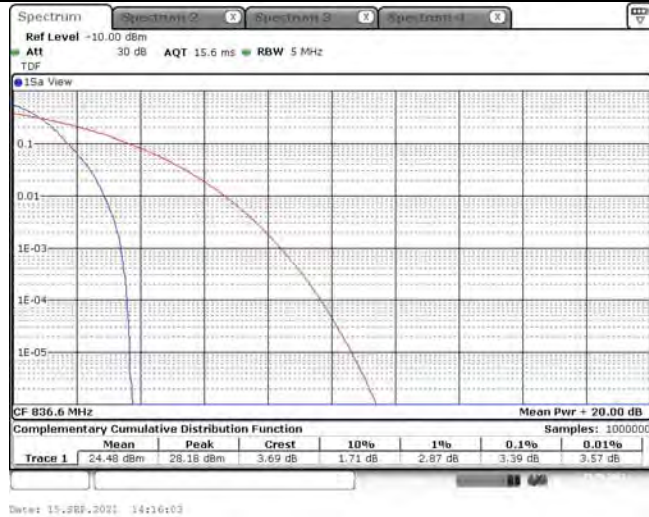
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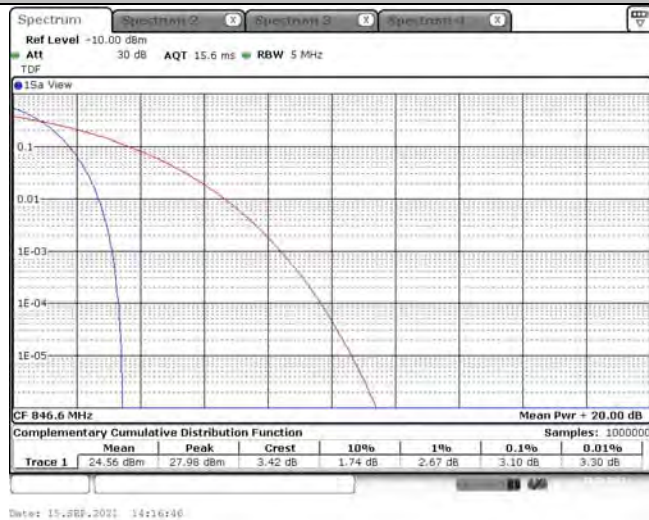
WCDMA Band V_HSDPA_Lowest channel



WCDMA Band V_HSDPA_Middle channel



WCDMA Band V_HSDPA_Highest channel



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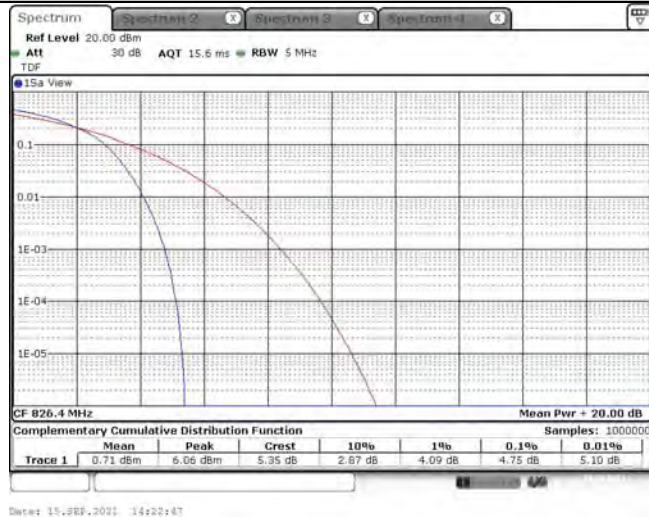
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

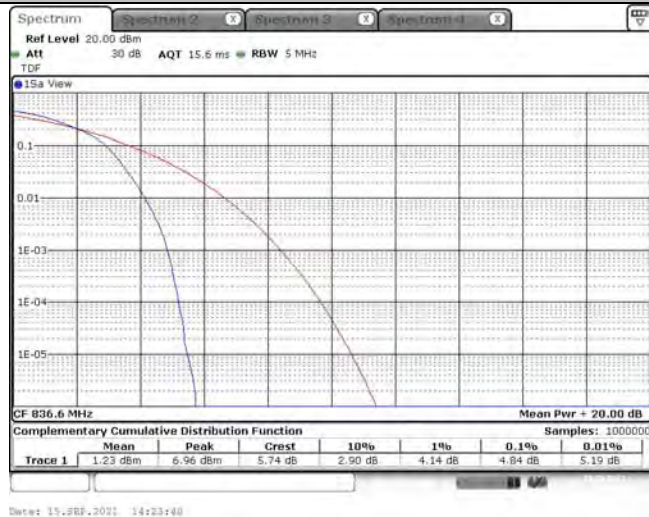
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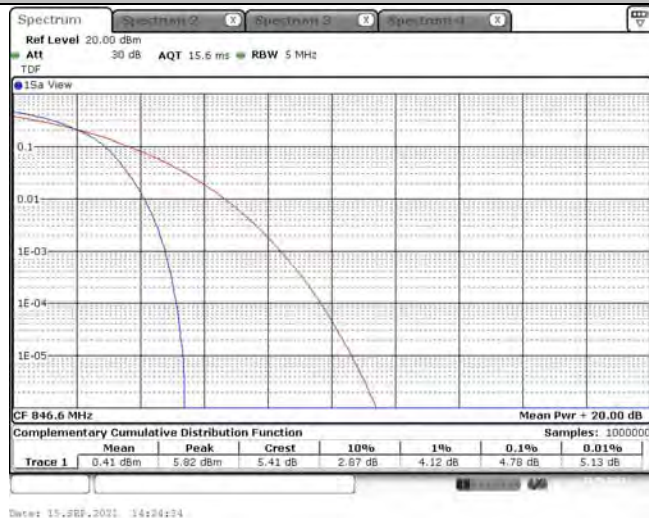
WCDMA Band V_HSUPA_Lowest channel



WCDMA Band V_HSUPA_Middle channel



WCDMA Band V_HSUPA_Highest channel



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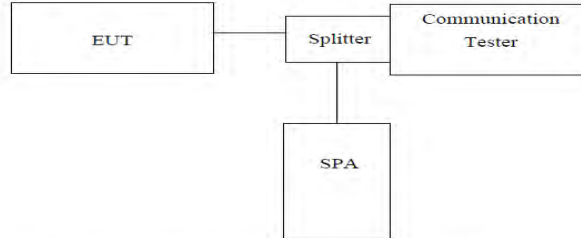


3.3. Occupy Bandwidth

LIMIT

For reporting purposes only.

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, $VBW \geq 3$ times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

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EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
GSM 850 (GSM)	128	824.20	0.248	0.320
	190	836.60	0.246	0.321
	251	848.80	0.246	0.319
GSM 850 (GPRS)	128	824.20	0.245	0.321
	190	836.60	0.246	0.320
	251	848.80	0.245	0.319
EGPRS850 (8PSK,1Slot)	128	824.20	0.243	0.312
	190	836.60	0.244	0.313
	251	848.80	0.244	0.311
PCS1900 (GSM)	512	1850.20	0.246	0.319
	661	1880.00	0.247	0.320
	810	1909.80	0.246	0.319
PCS1900 (GPRS)	512	1850.20	0.246	0.319
	661	1880.00	0.245	0.319
	810	1909.80	0.246	0.320
EGPRS1900 (8PSK,1Slot)	512	1850.20	0.246	0.319
	661	1880.00	0.247	0.324
	810	1909.80	0.246	0.318
WCDMA Band II (QPSK)	9262	1852.40	4.168	4.696
	9400	1880.00	4.168	4.688
	9538	1907.60	4.168	4.696
WCDMA Band V (QPSK)	4132	826.40	4.144	4.688
	4183	836.60	4.176	4.680
	4233	846.60	4.168	4.704

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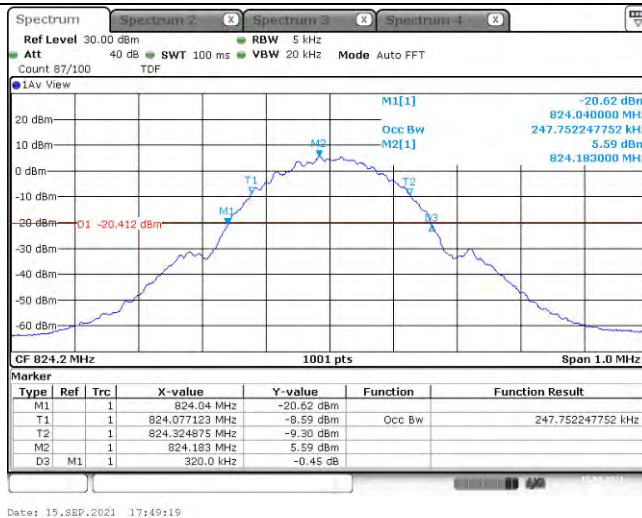
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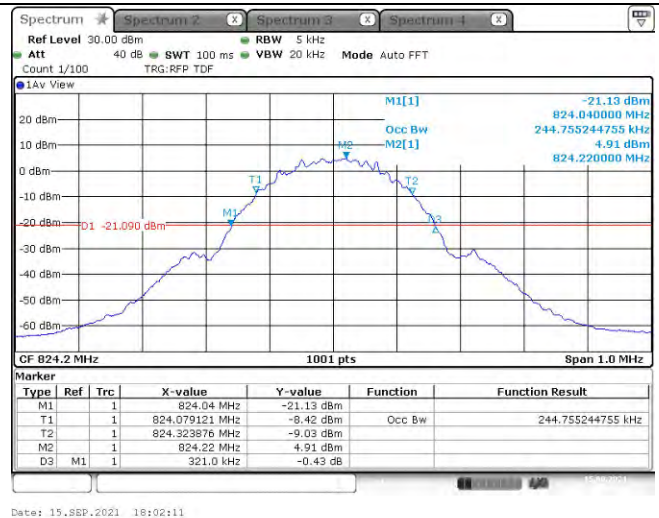


99% Occupy bandwidth and -26dB bandwidth

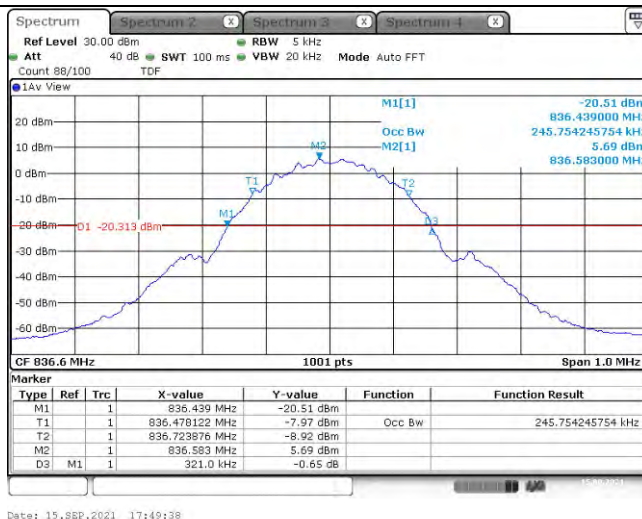
GSM 850



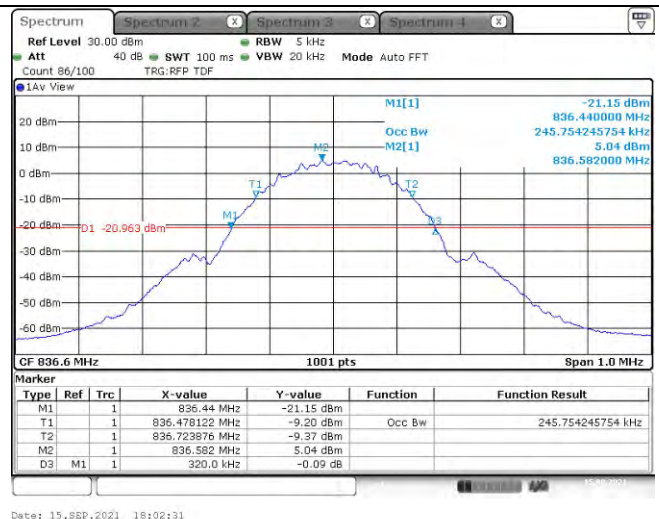
GPRS 850



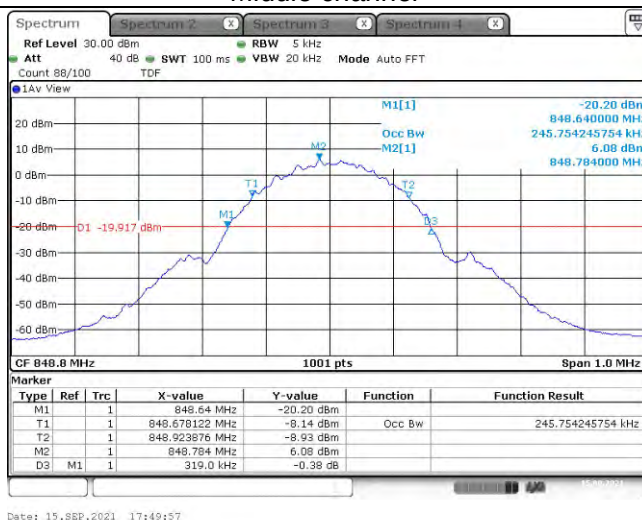
Lowest channel



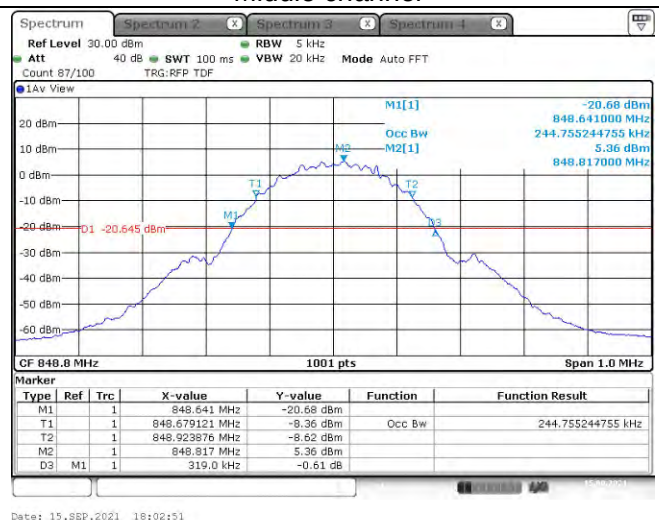
Lowest channel



Middle channel



Middle channel



Highest channel

Highest channel

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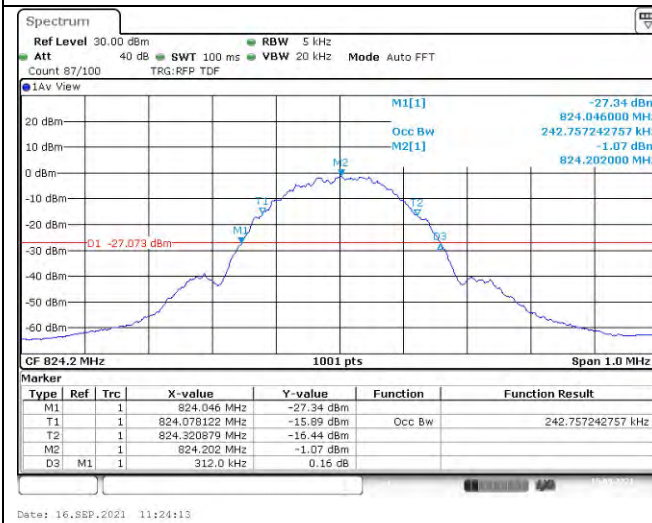
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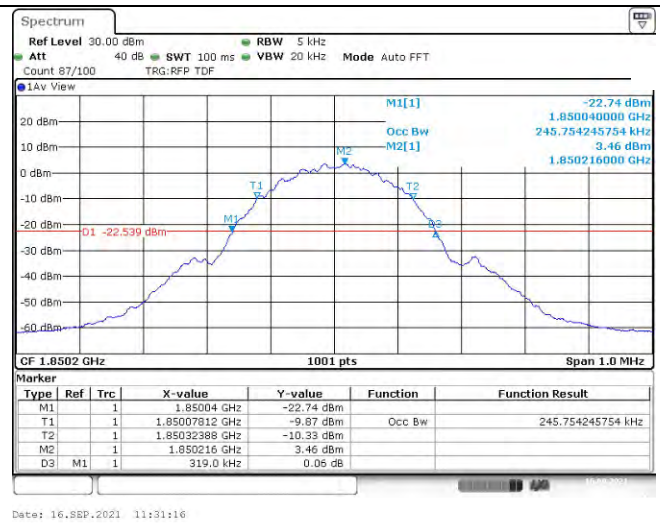


99% Occupancy bandwidth and -26dB bandwidth

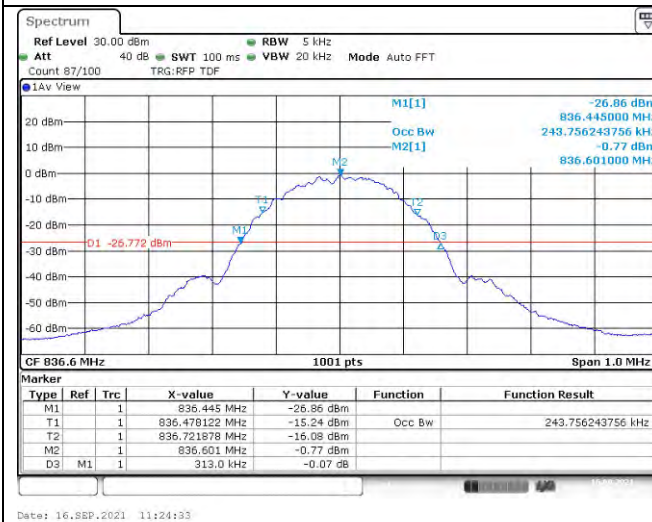
EGPRS 850



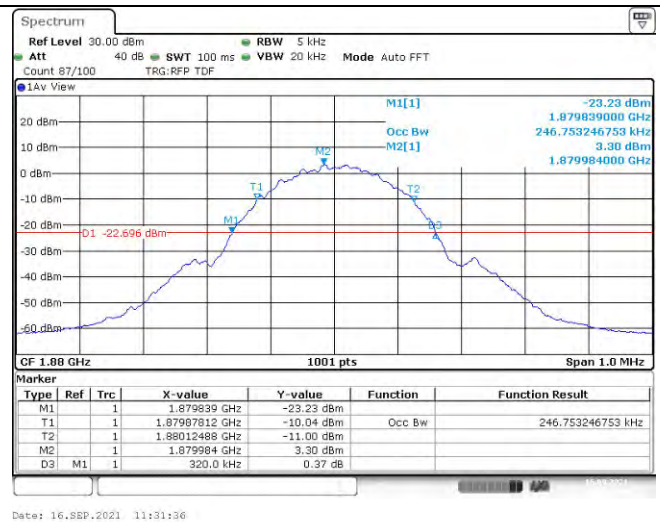
GSM 1900



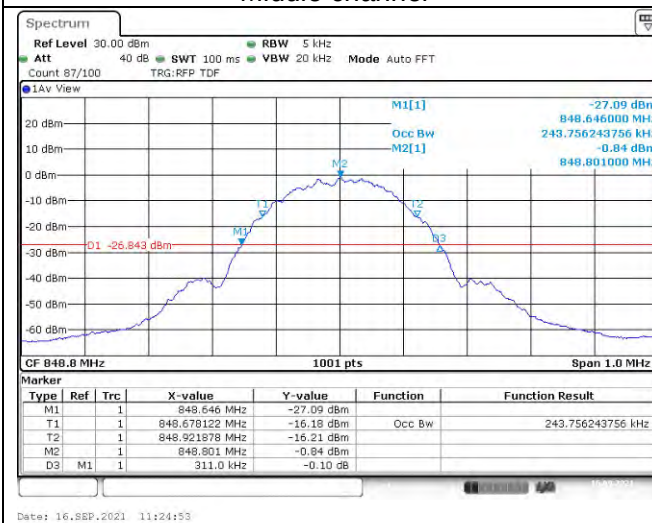
Lowest channel



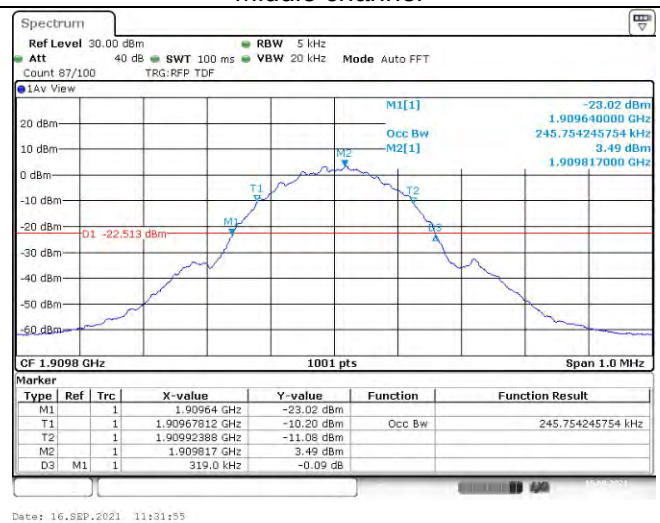
Lowest channel



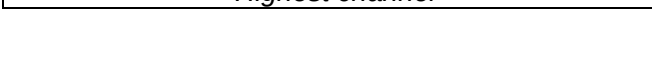
Middle channel



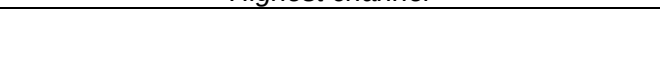
Middle channel



Highest channel



Highest channel



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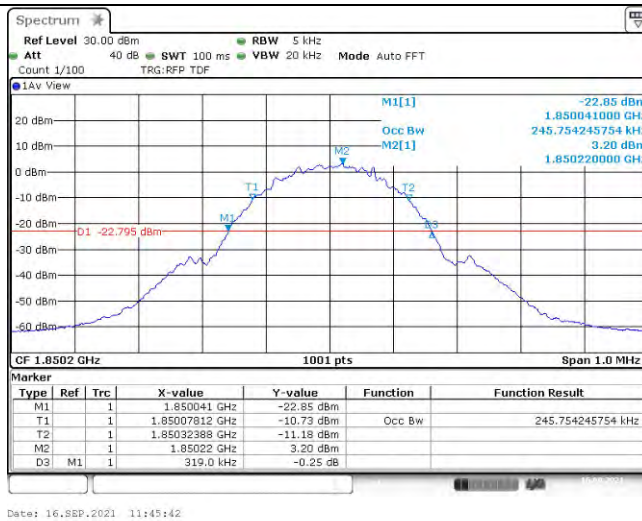
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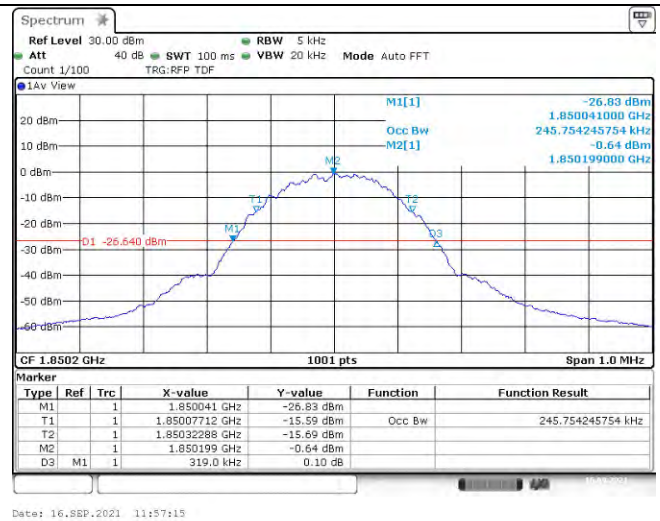


99% Occupancy bandwidth and -26dB bandwidth

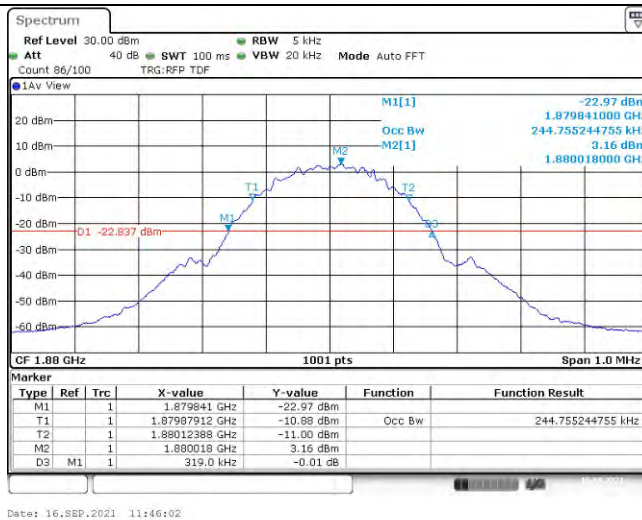
GPRS 1900



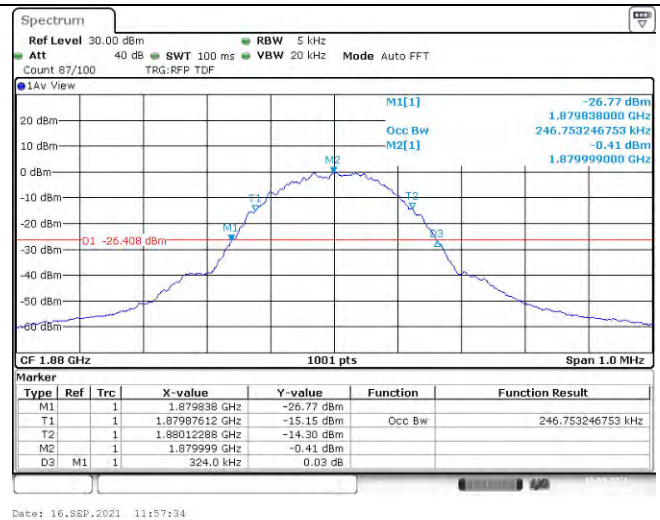
EGPRS 1900



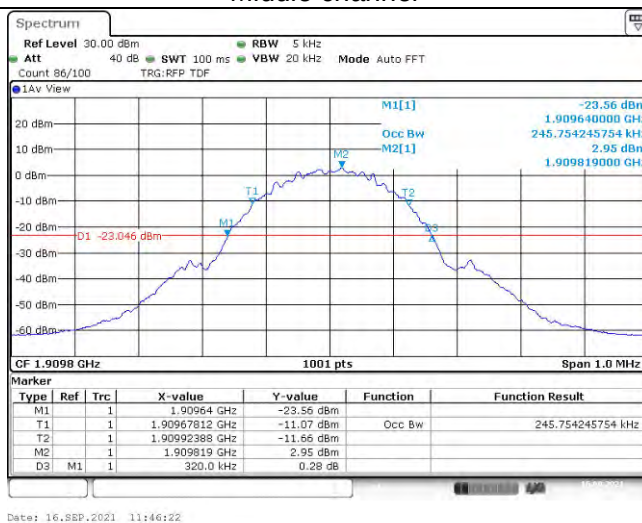
Lowest channel



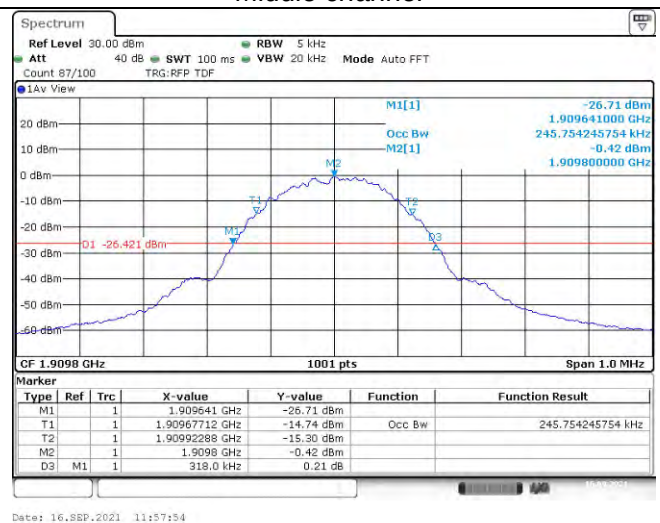
Lowest channel



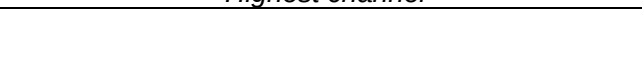
Middle channel



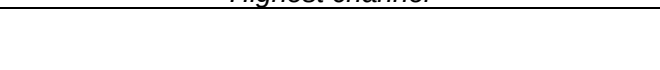
Middle channel



Highest channel



Highest channel



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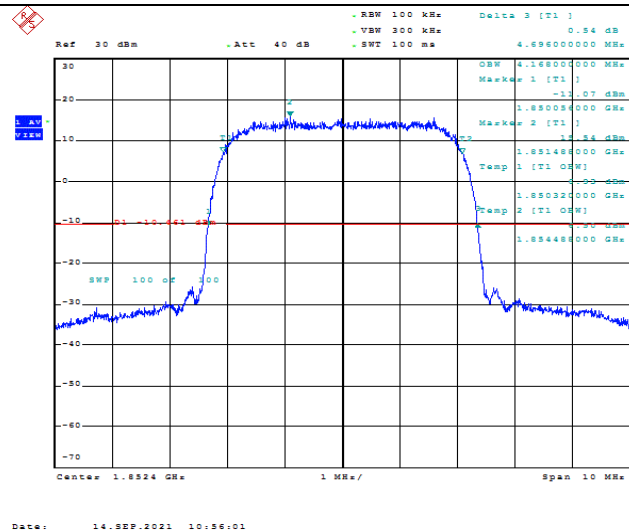
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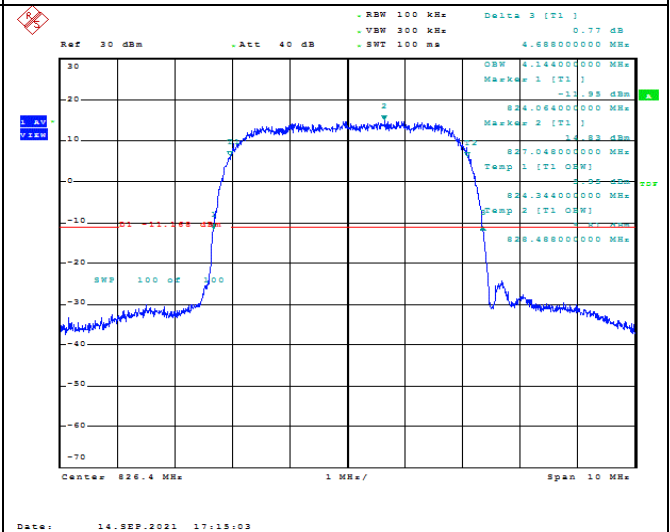


99% Occupancy bandwidth and -26dB bandwidth

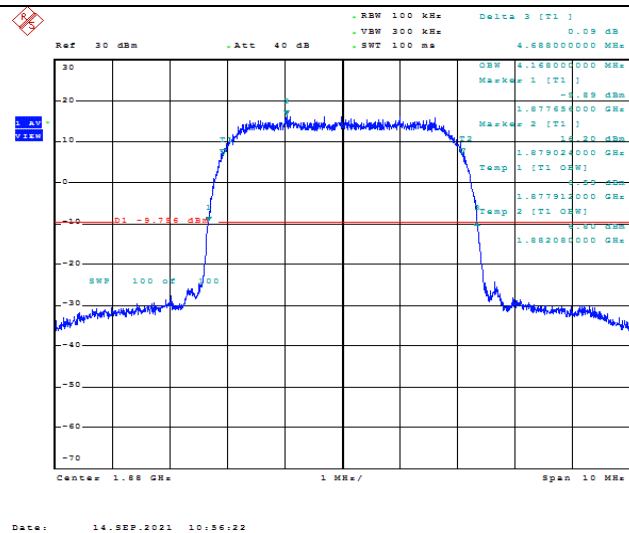
WCDMA II



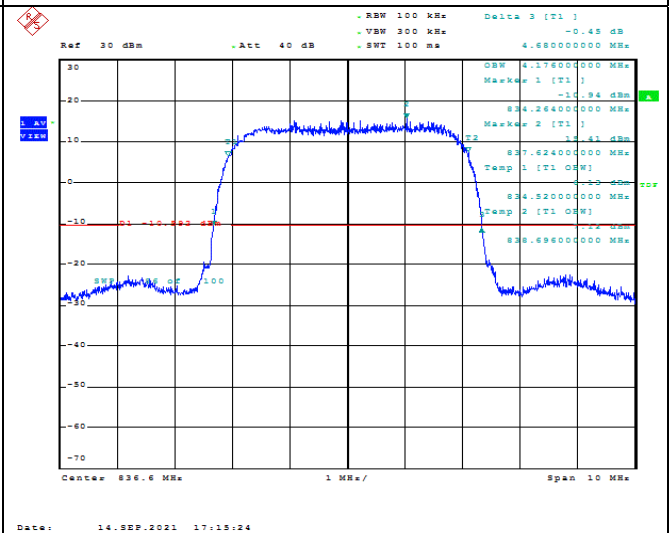
WCDMA V



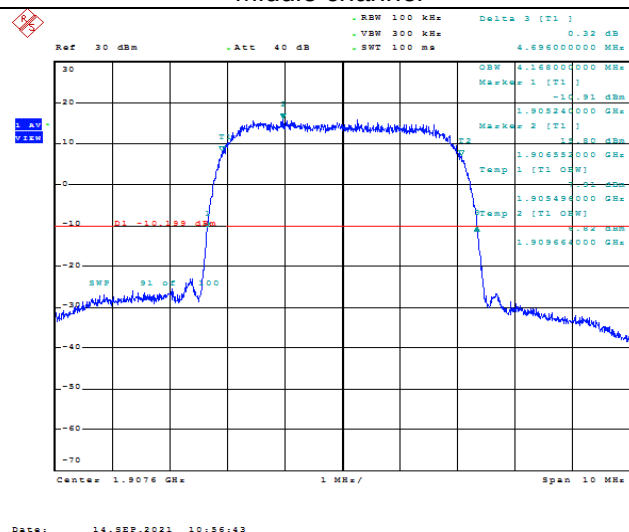
Lowest channel



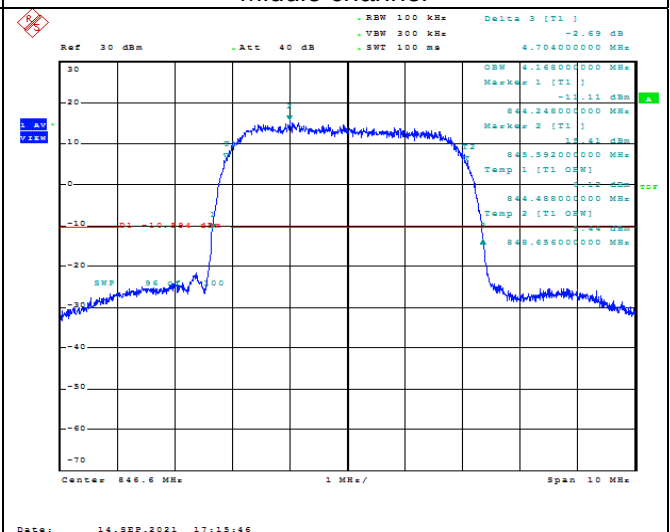
Lowest channel



Middle channel



Middle channel



Highest channel

Highest channel

CTC Laboratories, Inc.

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3.4. Out Of Band Emissions

LIMIT

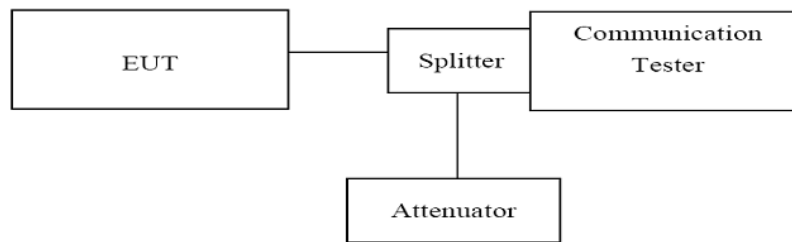
FCC: §22.917, §24.238, §27.53 (h), §90.691

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

RSS132§5.5, RSS133§6.5, RSS139§6.6

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST CONFIGURATION



TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. Sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

TEST RESULTS

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.04	-53.93	-33	PASS
GSM850	128	0.15~30MHz	0.63	-46.58	-13	PASS
GSM850	128	30~1000MHz	950.98	-37.29	-13	PASS
GSM850	128	1000~3000MHz	1697.53	-29.17	-13	PASS
GSM850	128	3000~10000MHz	4243.9	-42.8	-13	PASS
GSM850	190	0.009~0.15MHz	0.04	-55.27	-33	PASS
GSM850	190	0.15~30MHz	0.64	-46.72	-13	PASS
GSM850	190	30~1000MHz	943.93	-38.76	-13	PASS
GSM850	190	1000~3000MHz	1697.4	-29.45	-13	PASS
GSM850	190	3000~10000MHz	4244.37	-43.54	-13	PASS
GSM850	251	0.009~0.15MHz	0.04	-55.31	-33	PASS
GSM850	251	0.15~30MHz	0.61	-44.17	-13	PASS
GSM850	251	30~1000MHz	435.65	-38.33	-13	PASS
GSM850	251	1000~3000MHz	1697.27	-30.26	-13	PASS
GSM850	251	3000~10000MHz	3395.03	-43.45	-13	PASS
GPRS850	128	0.009~0.15MHz	0.04	-55.03	-33	PASS
GPRS850	128	0.15~30MHz	0.61	-47.67	-13	PASS
GPRS850	128	30~1000MHz	978.01	-37.6	-13	PASS

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GPRS850	128	1000~3000MHz	1697.53	-29.18	-13	PASS
GPRS850	128	3000~10000MHz	4244.13	-43.16	-13	PASS
GPRS850	190	0.009~0.15MHz	0.04	-56.17	-33	PASS
GPRS850	190	0.15~30MHz	0.63	-44.87	-13	PASS
GPRS850	190	30~1000MHz	492.66	-38.87	-13	PASS
GPRS850	190	1000~3000MHz	1697.67	-29.08	-13	PASS
GPRS850	190	3000~10000MHz	4244.37	-44.24	-13	PASS
GPRS850	251	0.009~0.15MHz	0.04	-56.01	-33	PASS
GPRS850	251	0.15~30MHz	0.63	-46	-13	PASS
GPRS850	251	30~1000MHz	746.44	-38.74	-13	PASS
GPRS850	251	1000~3000MHz	1697.6	-29.02	-13	PASS
GPRS850	251	3000~10000MHz	4243.67	-43.64	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.04	-55.58	-33	PASS
EGPRS850	128	0.15~30MHz	0.6	-46.08	-13	PASS
EGPRS850	128	30~1000MHz	940.25	-38.44	-13	PASS
EGPRS850	128	1000~3000MHz	1697.4	-39.52	-13	PASS
EGPRS850	128	3000~10000MHz	5507.87	-53.82	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.04	-56.93	-33	PASS
EGPRS850	190	0.15~30MHz	0.7	-45.75	-13	PASS
EGPRS850	190	30~1000MHz	948.56	-39.18	-13	PASS
EGPRS850	190	1000~3000MHz	1697.6	-39.21	-13	PASS
EGPRS850	190	3000~10000MHz	9999.53	-54.12	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.04	-56.68	-33	PASS
EGPRS850	251	0.15~30MHz	0.63	-47.01	-13	PASS
EGPRS850	251	30~1000MHz	561.2	-38.87	-13	PASS
EGPRS850	251	1000~3000MHz	1697.33	-40.32	-13	PASS
EGPRS850	251	3000~10000MHz	9992.3	-54.03	-13	PASS
GSM1900	512	0.009~0.15MHz	0.03	-56.11	-43	PASS
GSM1900	512	0.15~30MHz	0.5	-53.52	-23	PASS
GSM1900	512	30~1000MHz	582.96	-39.66	-13	PASS
GSM1900	512	1000~3000MHz	2975.33	-43.36	-13	PASS
GSM1900	512	3000~10000MHz	7829.49	-34.34	-13	PASS
GSM1900	512	10000~18000MHz	17457.75	-29.23	-13	PASS
GSM1900	661	0.009~0.15MHz	0.04	-56.52	-43	PASS
GSM1900	661	0.15~30MHz	0.5	-51.93	-23	PASS
GSM1900	661	30~1000MHz	892.64	-39.32	-13	PASS
GSM1900	661	1000~3000MHz	2983.53	-43.4	-13	PASS
GSM1900	661	3000~10000MHz	7827.39	-34.7	-13	PASS
GSM1900	661	10000~18000MHz	17454.55	-29.38	-13	PASS
GSM1900	810	0.009~0.15MHz	0.03	-56.69	-43	PASS
GSM1900	810	0.15~30MHz	0.5	-54.85	-23	PASS
GSM1900	810	30~1000MHz	984.5	-38.7	-13	PASS
GSM1900	810	1000~3000MHz	2938.2	-43.56	-13	PASS
GSM1900	810	3000~10000MHz	7823.42	-34.64	-13	PASS

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GSM1900	810	10000~18000MHz	17430.02	-29.38	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.03	-56.37	-43	PASS
GPRS1900	512	0.15~30MHz	0.73	-54.78	-23	PASS
GPRS1900	512	30~1000MHz	993.19	-39.48	-13	PASS
GPRS1900	512	1000~3000MHz	2974.87	-43.08	-13	PASS
GPRS1900	512	3000~10000MHz	7833.69	-34.56	-13	PASS
GPRS1900	512	10000~18000MHz	17452.68	-29.3	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.03	-56.2	-43	PASS
GPRS1900	661	0.15~30MHz	0.5	-52.61	-23	PASS
GPRS1900	661	30~1000MHz	812.49	-38.72	-13	PASS
GPRS1900	661	1000~3000MHz	2893.53	-43.32	-13	PASS
GPRS1900	661	3000~10000MHz	7824.12	-34.6	-13	PASS
GPRS1900	661	10000~18000MHz	17467.08	-29.37	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.03	-56.63	-43	PASS
GPRS1900	810	0.15~30MHz	0.5	-53.76	-23	PASS
GPRS1900	810	30~1000MHz	863.35	-38.95	-13	PASS
GPRS1900	810	1000~3000MHz	2915.67	-43.46	-13	PASS
GPRS1900	810	3000~10000MHz	7832.52	-34.69	-13	PASS
GPRS1900	810	10000~18000MHz	17447.35	-29.23	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.04	-55.4	-43	PASS
EGPRS1900	512	0.15~30MHz	0.55	-54.95	-23	PASS
EGPRS1900	512	30~1000MHz	510.47	-39.57	-13	PASS
EGPRS1900	512	1000~3000MHz	2956.53	-43.5	-13	PASS
EGPRS1900	512	3000~10000MHz	7832.52	-34.44	-13	PASS
EGPRS1900	512	10000~18000MHz	17448.15	-29.42	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.03	-56.6	-43	PASS
EGPRS1900	661	0.15~30MHz	0.71	-54.11	-23	PASS
EGPRS1900	661	30~1000MHz	987.28	-38.15	-13	PASS
EGPRS1900	661	1000~3000MHz	2939.6	-43.48	-13	PASS
EGPRS1900	661	3000~10000MHz	7825.29	-34.65	-13	PASS
EGPRS1900	661	10000~18000MHz	17445.75	-29.33	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.03	-56.41	-43	PASS
EGPRS1900	810	0.15~30MHz	0.5	-53	-23	PASS
EGPRS1900	810	30~1000MHz	863.96	-38.46	-13	PASS
EGPRS1900	810	1000~3000MHz	2807.93	-43.47	-13	PASS
EGPRS1900	810	3000~10000MHz	3000	-48.34	-13	PASS
EGPRS1900	810	10000~18000MHz	17444.69	-29.3	-13	PASS



Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.15~30MHz	0.65	-45.95	-23	PASS
Band2	9262	30~1000MHz	758.21	-38.39	-13	PASS
Band2	9262	1000~3000MHz	2708.53	-43.55	-13	PASS
Band2	9262	3000~10000MHz	3706.3	-46.66	-13	PASS
Band2	9262	10000~20000MHz	19292.33	-44.54	-13	PASS
Band2	9262	0.009~0.15MHz	0.06	-56.35	-43	PASS
Band2	9400	30~1000MHz	911.5	-37.81	-13	PASS
Band2	9400	10000~20000MHz	19307	-44.47	-13	PASS
Band2	9400	1000~3000MHz	2665.13	-43.53	-13	PASS
Band2	9400	0.15~30MHz	0.65	-45.26	-23	PASS
Band2	9400	0.009~0.15MHz	0.06	-56.43	-43	PASS
Band2	9400	3000~10000MHz	5636.9	-41.71	-13	PASS
Band2	9538	10000~20000MHz	19610	-44.38	-13	PASS
Band2	9538	3000~10000MHz	3813.4	-41.71	-13	PASS
Band2	9538	0.009~0.15MHz	0.06	-56.3	-43	PASS
Band2	9538	0.15~30MHz	0.62	-46.92	-23	PASS
Band2	9538	30~1000MHz	998.74	-38.9	-13	PASS
Band2	9538	1000~3000MHz	2670.33	-43.58	-13	PASS
Band5	4132	0.15~30MHz	0.65	-46.78	-13	PASS
Band5	4132	30~1000MHz	544.39	-38.44	-13	PASS
Band5	4132	1000~3000MHz	1654.53	-38.54	-13	PASS
Band5	4132	3000~10000MHz	5322.6	-49.36	-13	PASS
Band5	4132	10000~18000MHz	12389.87	-38.26	-13	PASS
Band5	4132	0.009~0.15MHz	0.06	-55.91	-33	PASS
Band5	4183	30~1000MHz	936.76	-39.12	-13	PASS
Band5	4183	10000~18000MHz	12377.07	-38.17	-13	PASS
Band5	4183	1000~3000MHz	1671.73	-42.26	-13	PASS
Band5	4183	0.15~30MHz	0.7	-45.97	-13	PASS
Band5	4183	0.009~0.15MHz	0.06	-56.06	-33	PASS
Band5	4183	3000~10000MHz	5863.93	-53.31	-13	PASS
Band5	4233	10000~18000MHz	12470.93	-38.24	-13	PASS
Band5	4233	0.009~0.15MHz	0.06	-55.88	-33	PASS
Band5	4233	0.15~30MHz	0.7	-44.82	-13	PASS
Band5	4233	30~1000MHz	952.99	-37.95	-13	PASS
Band5	4233	1000~3000MHz	1691.6	-38.79	-13	PASS
Band5	4233	3000~10000MHz	5318.4	-47.89	-13	PASS

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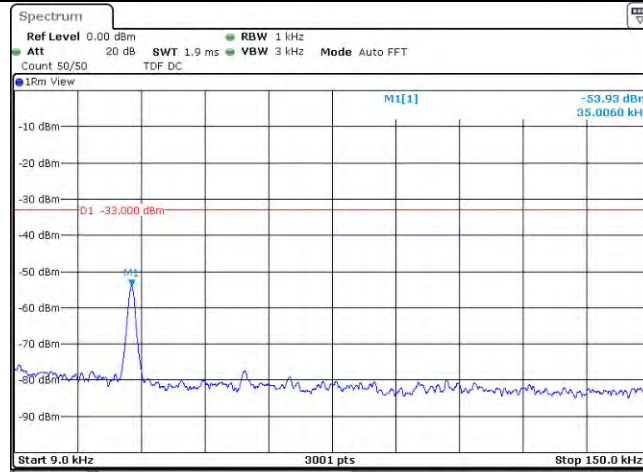
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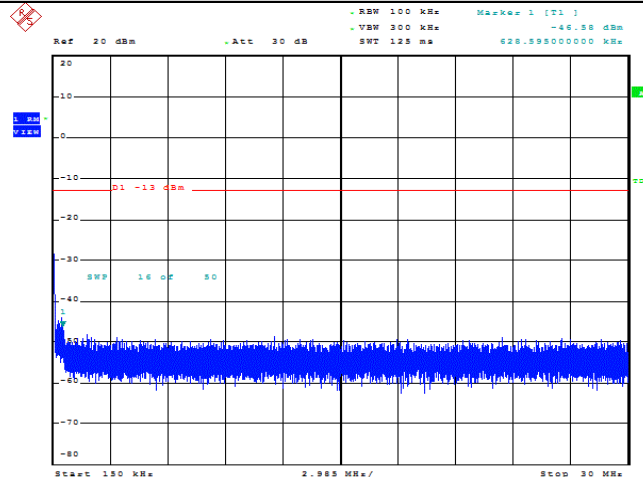


GSM850-128-0.009~0.15MHz



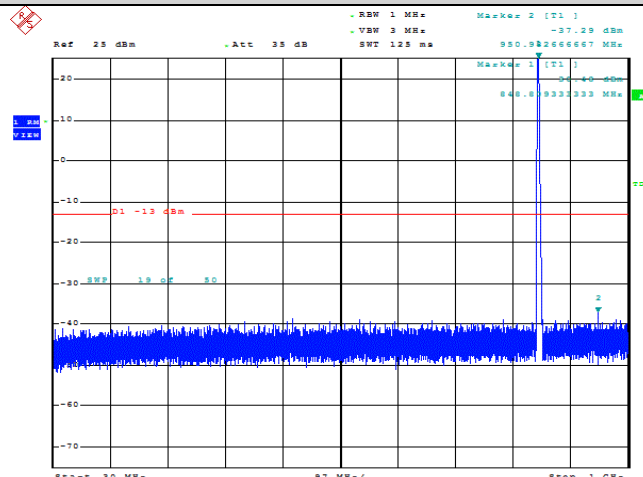
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GSM850-128-0.15~30MHz



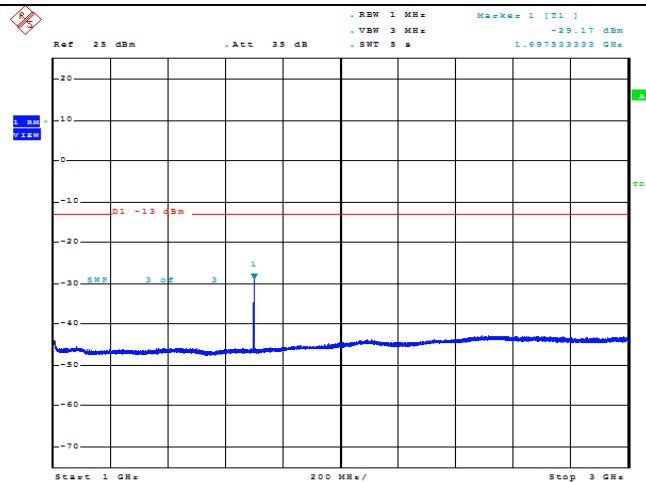
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GSM850-128-30~1000MHz



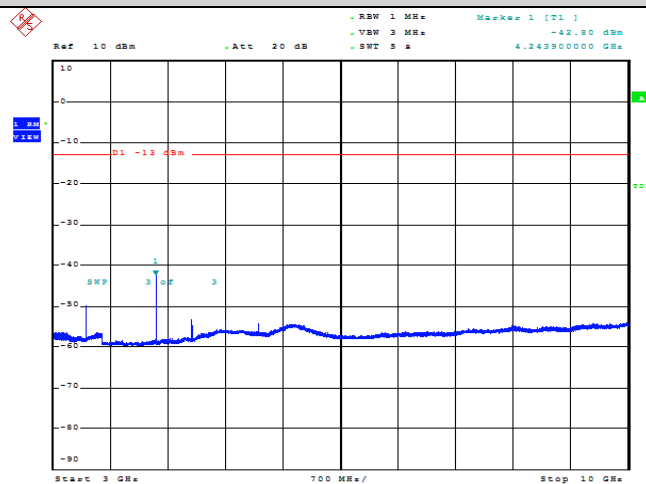
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GSM850-128-1000~3000MHz



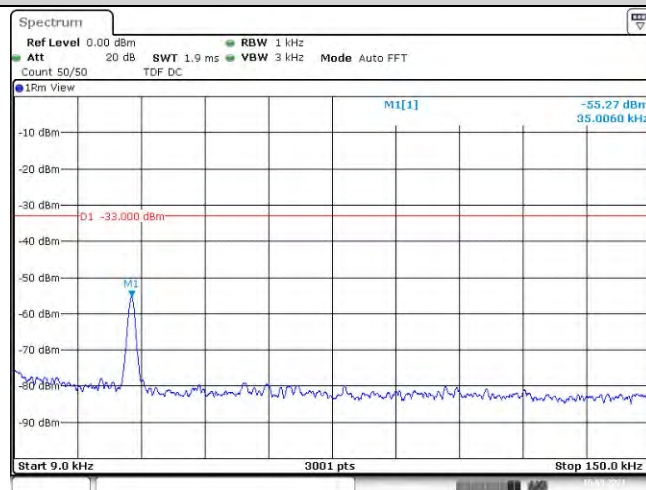
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GSM850-128-3000~10000MHz



Date: 16.SEP.2021 16:37:00

GSM850-190-0.009~0.15MHz



Date: 16.SEP.2021 14:02:24

GSM850-190-0.15~30MHz

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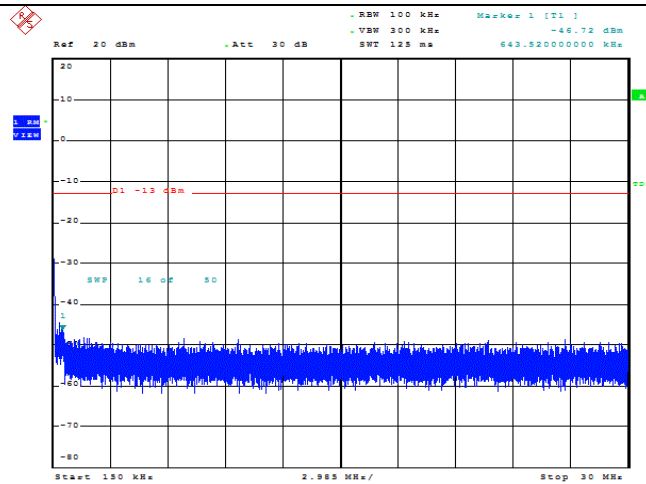
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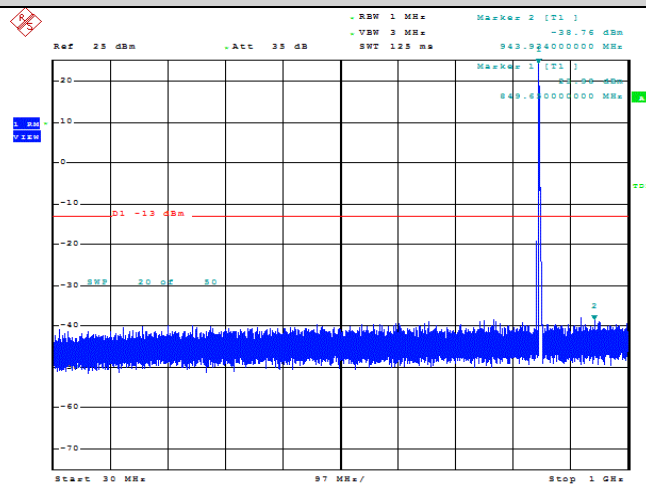


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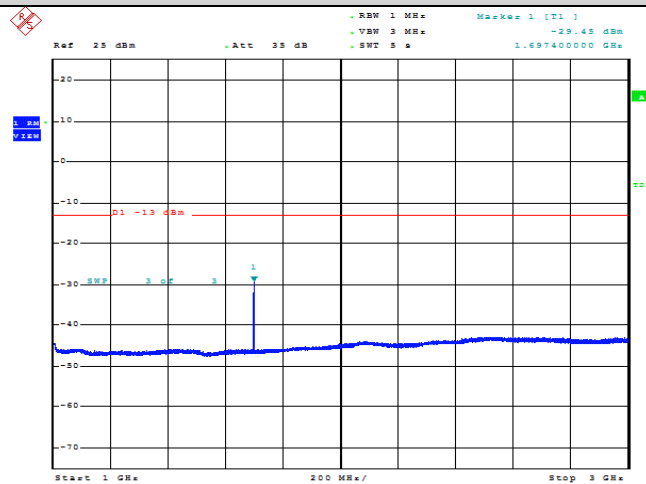
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GSM850-190-30~1000MHz



Date: 16.SEP.2021 16:37:42

GSM850-190-1000~3000MHz



Date: 16.SEP.2021 16:38:13

GSM850-190-3000~10000MHz

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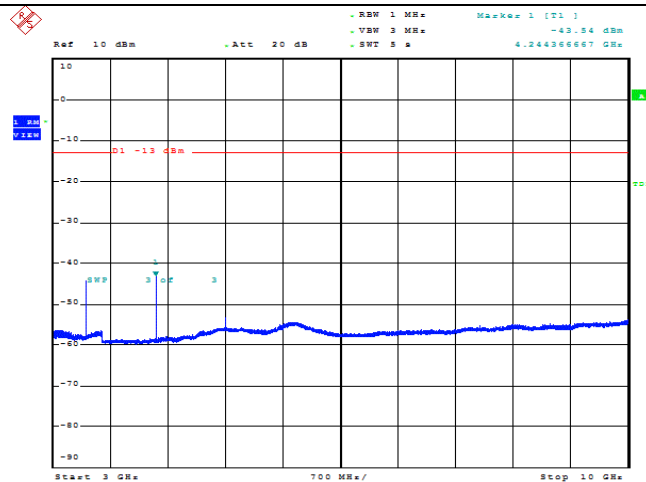
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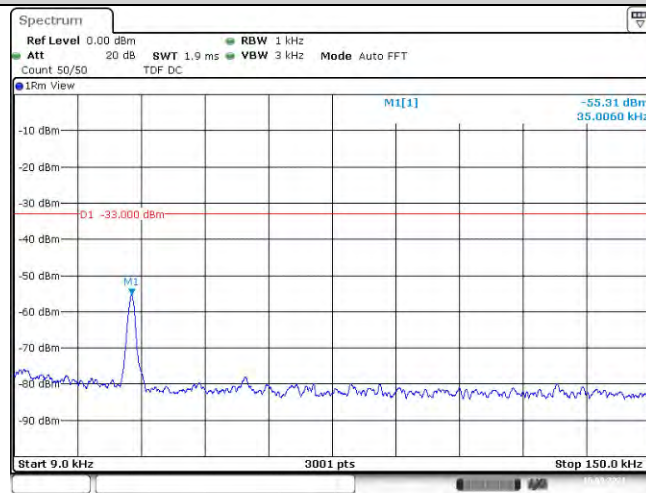
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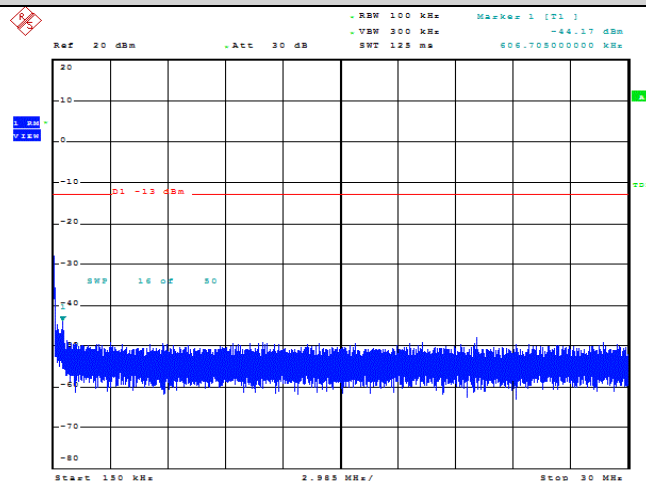
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GSM850-251-0.009~0.15MHz



Date: 16.SEP.2021 14:02:32

GSM850-251-0.15~30MHz



Date: 16.SEP.2021 16:39:02

GSM850-251-30~1000MHz

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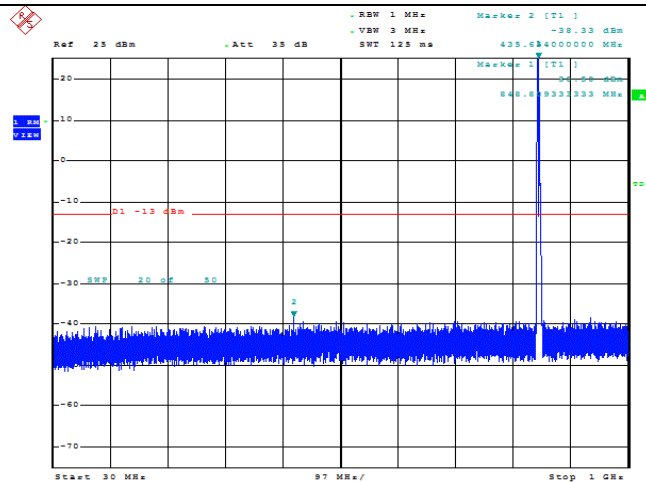
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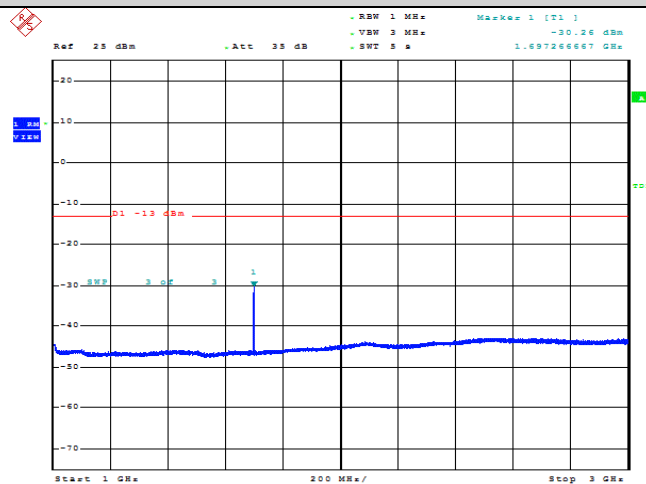
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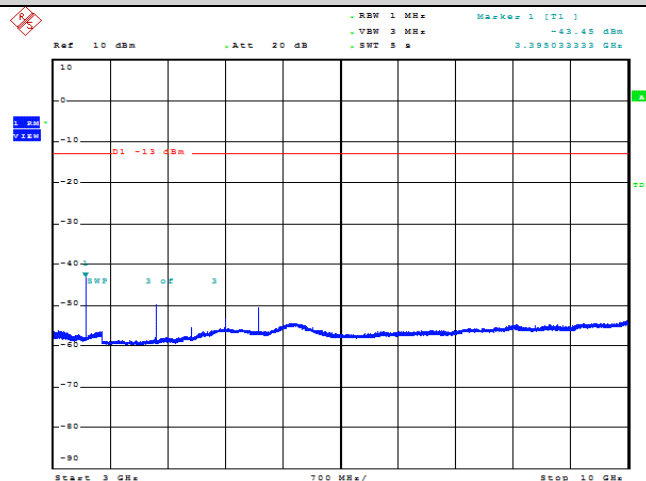
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GSM850-251-1000~3000MHz



GSM850-251-3000~10000MHz



GPRS850-128-0.009~0.15MHz

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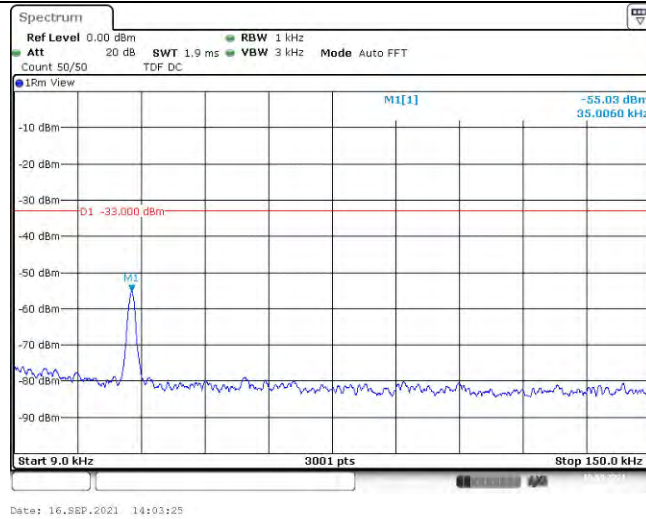
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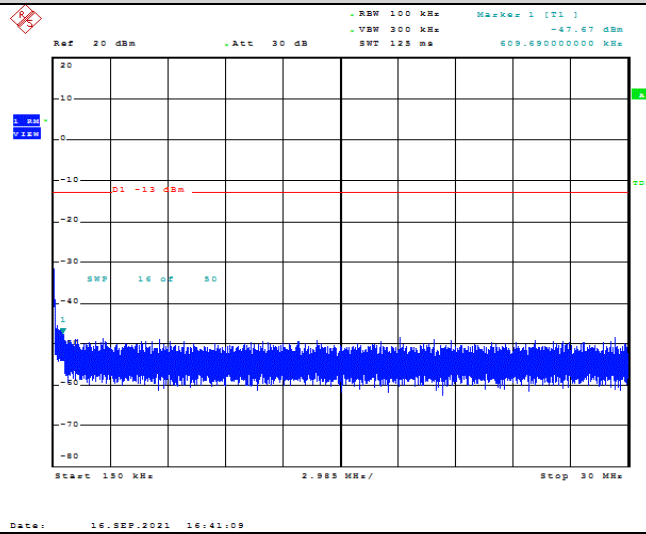
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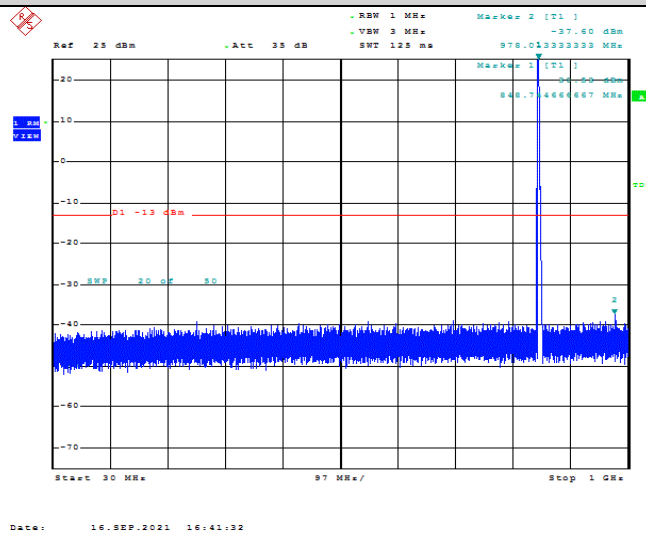
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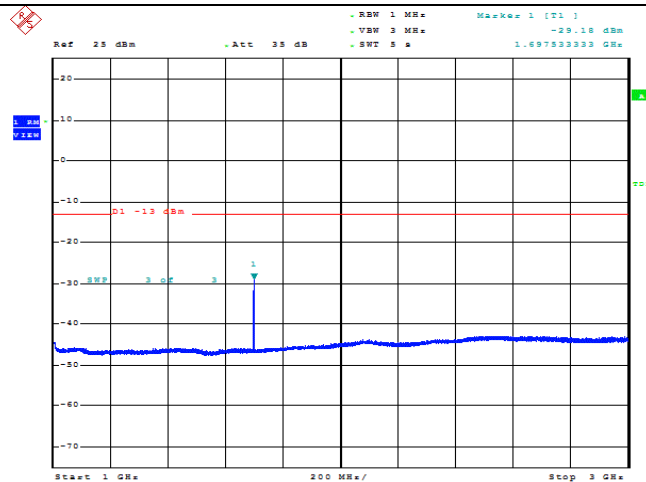
GPRS850-128-0.15~30MHz



GPRS850-128-30~1000MHz

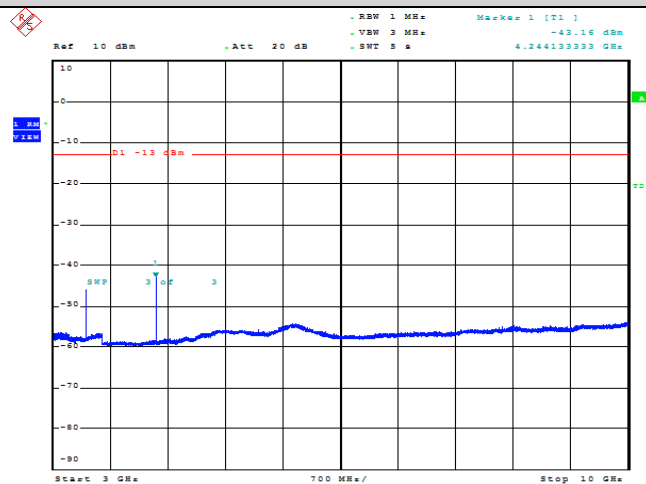


GPRS850-128-1000~3000MHz



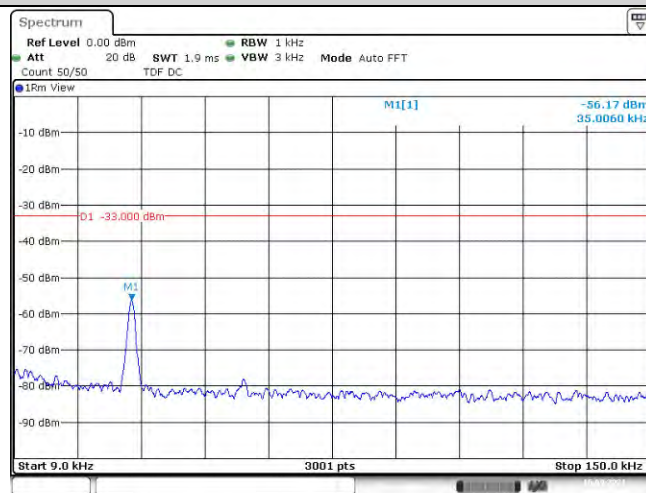
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GPRS850-128-3000~10000MHz



Date: 16.SEP.2021 16:42:32

GPRS850-190-0.009~0.15MHz



Date: 16.SEP.2021 14:03:33

GPRS850-190-0.15~30MHz

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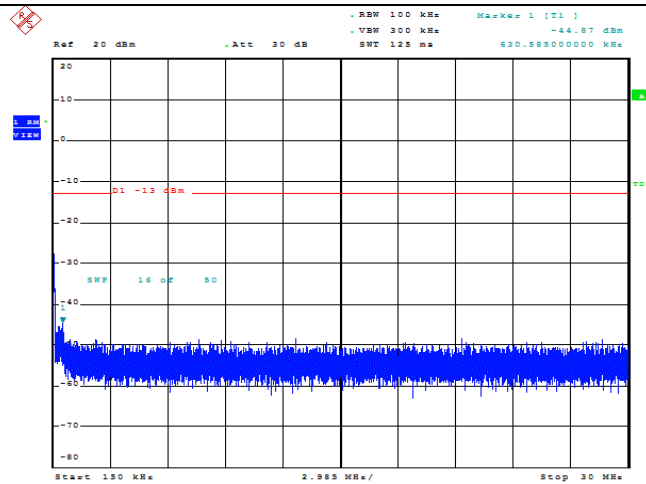
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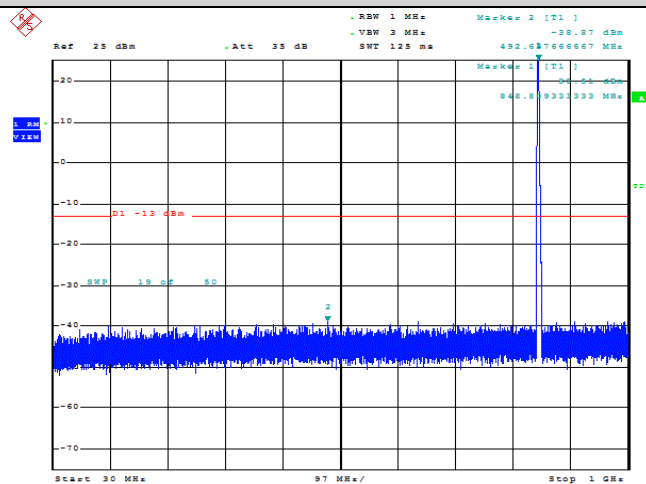
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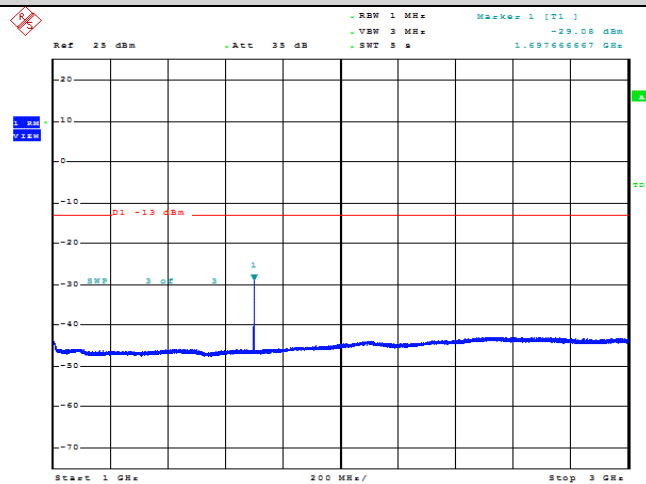
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GPRS850-190-30~1000MHz



GPRS850-190-1000~3000MHz



GPRS850-190-3000~10000MHz

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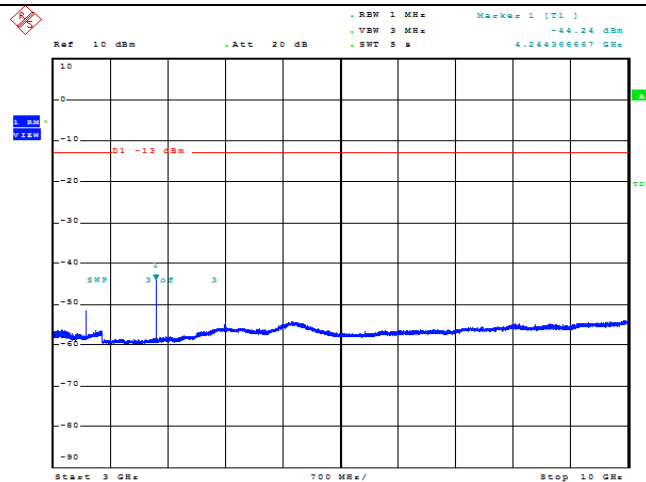
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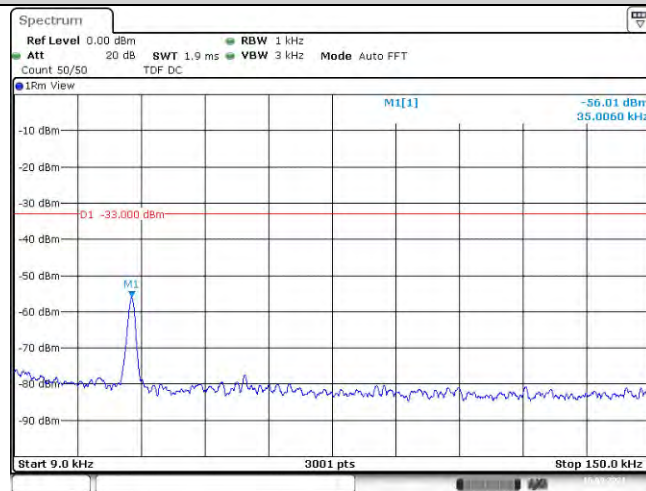
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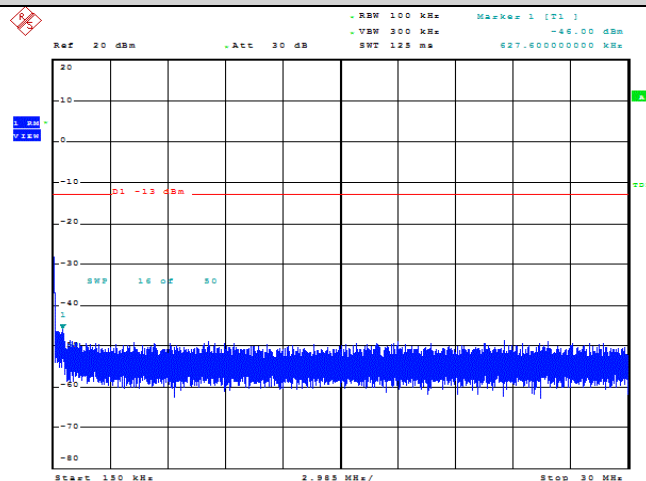
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GPRS850-251-0.009~0.15MHz



Date: 16.SEP.2021 14:03:41

GPRS850-251-0.15~30MHz



Date: 16.SEP.2021 16:44:35

GPRS850-251-30~1000MHz

CTC Laboratories, Inc.

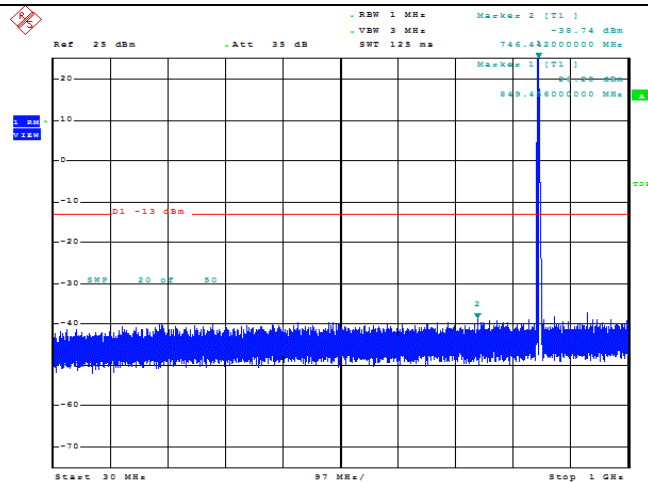
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

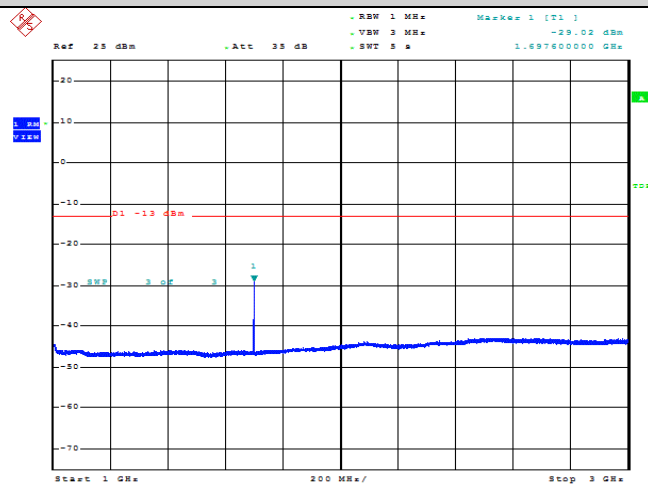
Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



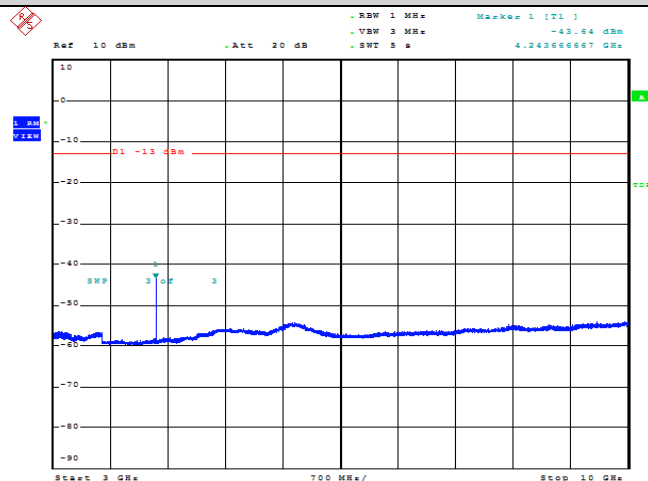
Date: 16.SEP.2021 16:44:58

GPRS850-251-1000~3000MHz



Date: 16.SEP.2021 16:45:28

GPRS850-251-3000~10000MHz



Date: 16.SEP.2021 16:45:58

EGPRS850-128-0.009~0.15MHz

CTC Laboratories, Inc.

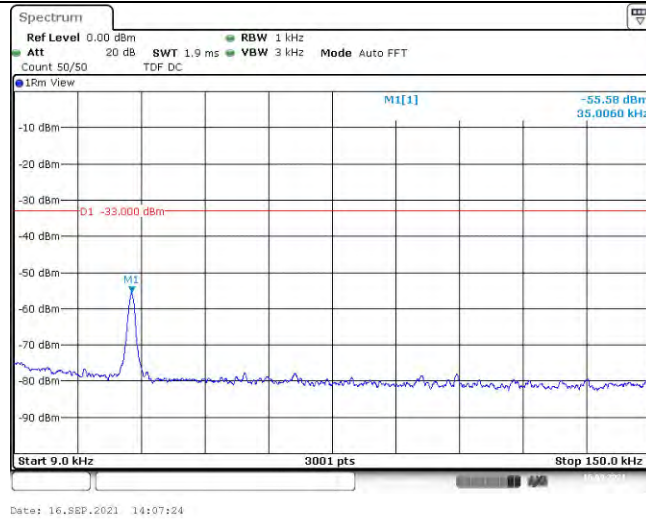
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

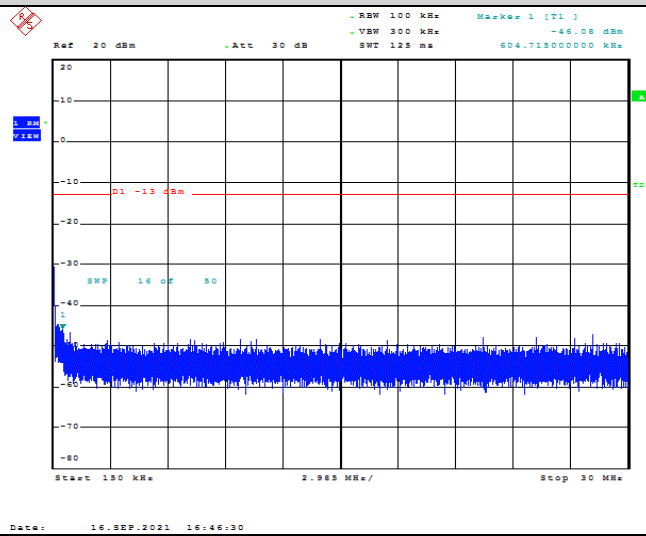
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

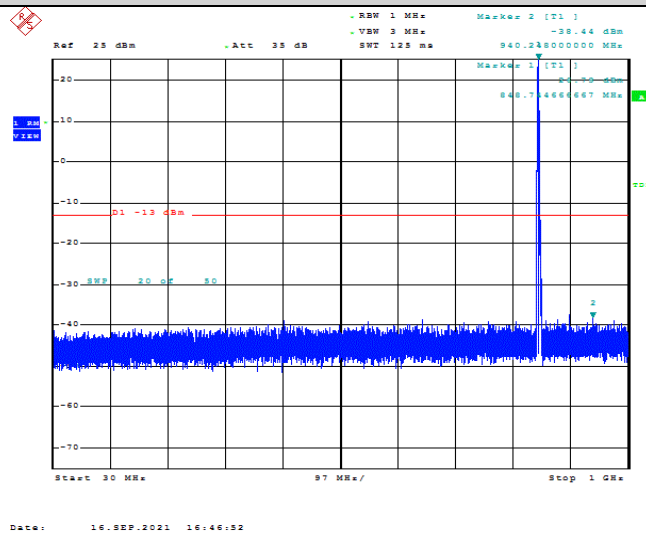
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



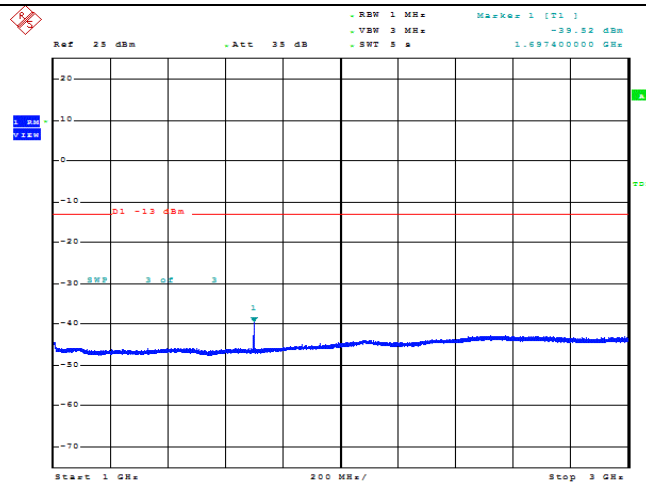
EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz

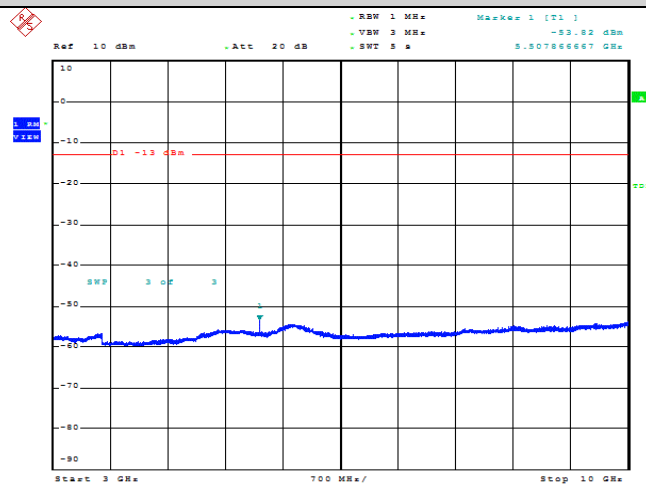


EGPRS850-128-1000~3000MHz



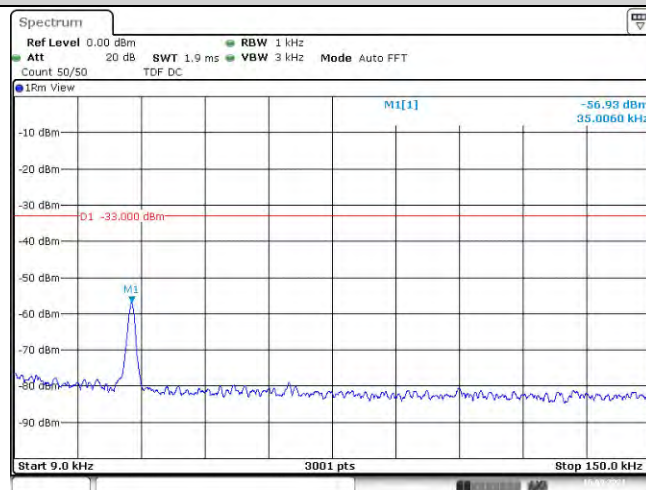
Date: 16.SEP.2021 16:47:23

EGPRS850-128-3000~10000MHz



Date: 16.SEP.2021 16:47:53

EGPRS850-190-0.009~0.15MHz



Date: 16.SEP.2021 14:09:44

EGPRS850-190-0.15~30MHz

CTC Laboratories, Inc.

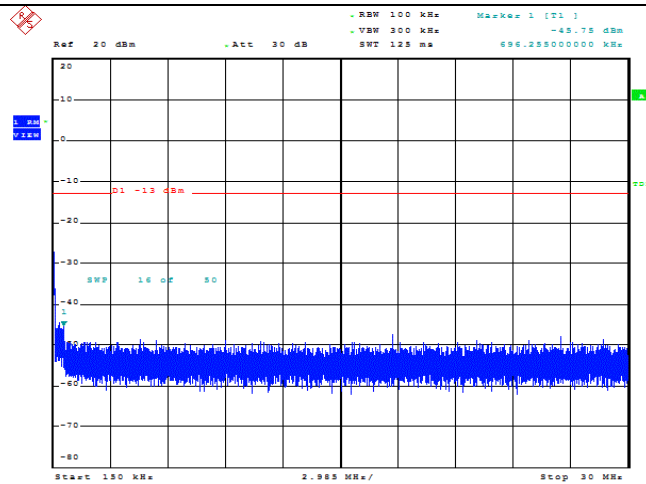
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

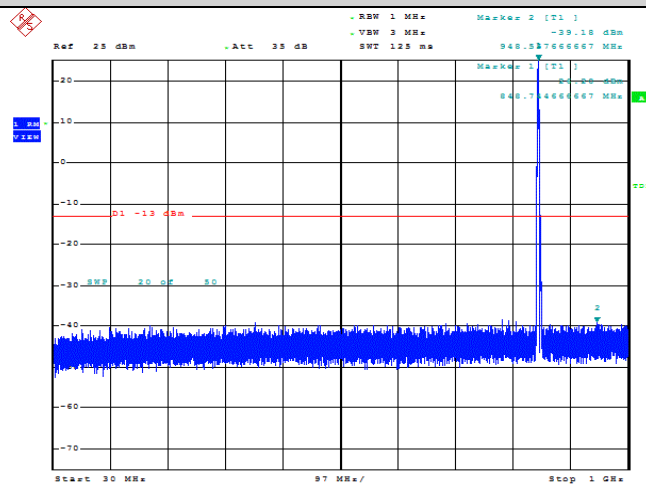
Http://www.sz-ctc.org.cn

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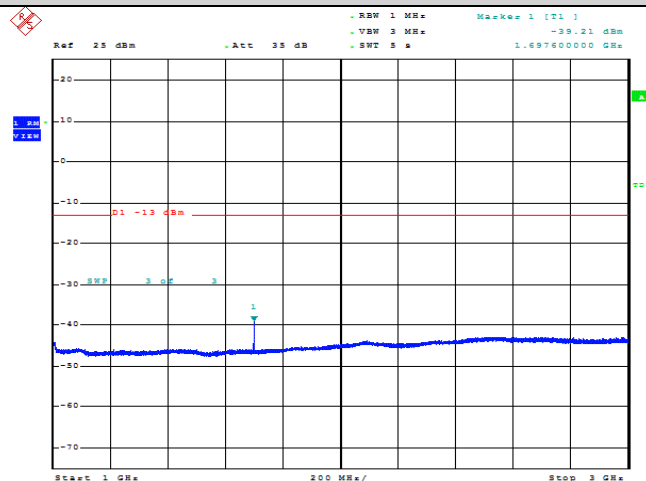
Date: 16 SEP.2021 16:48:13

EGPRS850-190-30~1000MHz



Date: 16 SEP.2021 16:48:36

EGPRS850-190-1000~3000MHz



Date: 16 SEP.2021 16:49:06

EGPRS850-190-3000~10000MHz

CTC Laboratories, Inc.

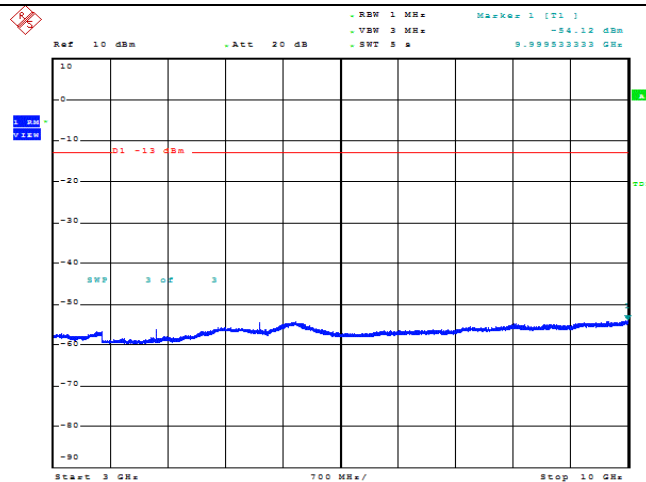
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

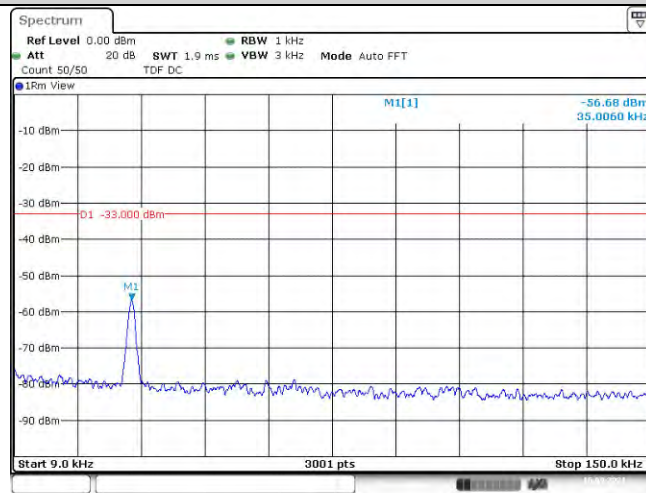
Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



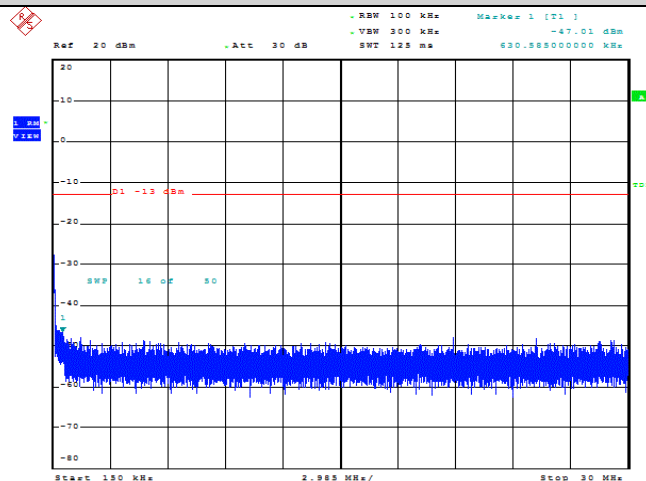
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EGPRS850-251-0.009~0.15MHz



Date: 16 SEP 2021 14:09:52

EGPRS850-251-0.15~30MHz



Date: 16 SEP 2021 16:49:57

EGPRS850-251-30~1000MHz

CTC Laboratories, Inc.

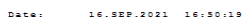
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

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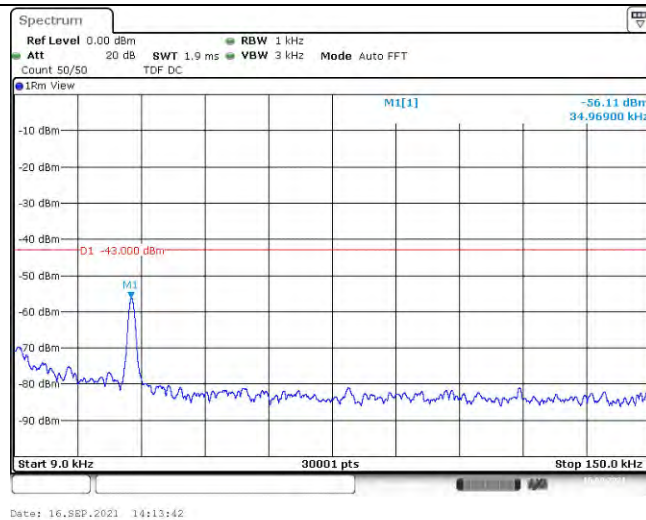
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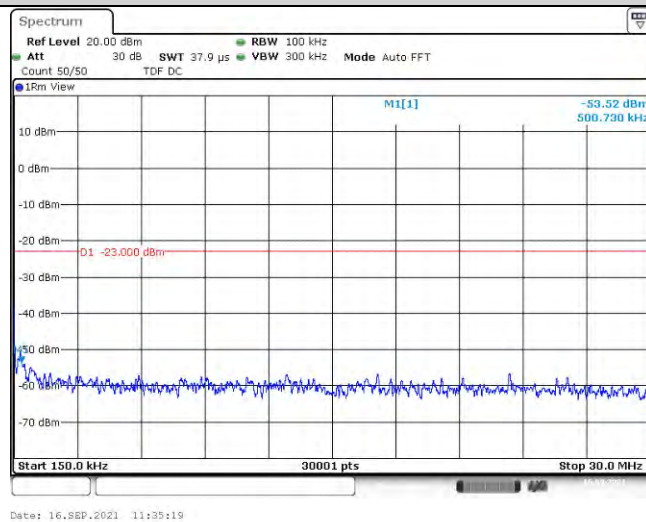
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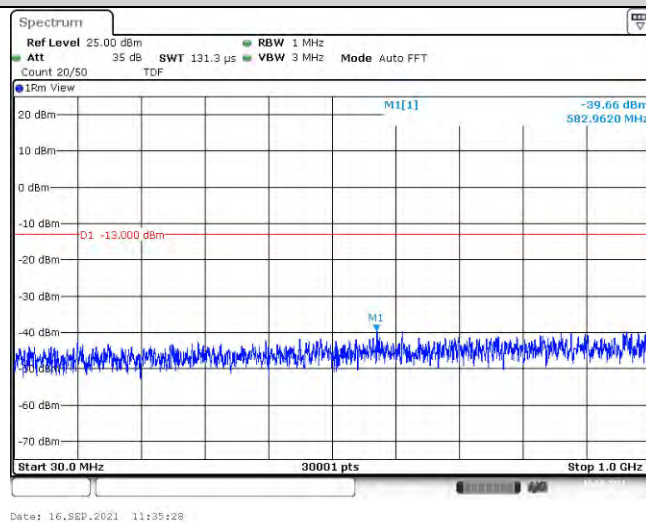
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GSM1900-512-0.15~30MHz



GSM1900-512-30~1000MHz



GSM1900-512-1000~3000MHz

CTC Laboratories, Inc.

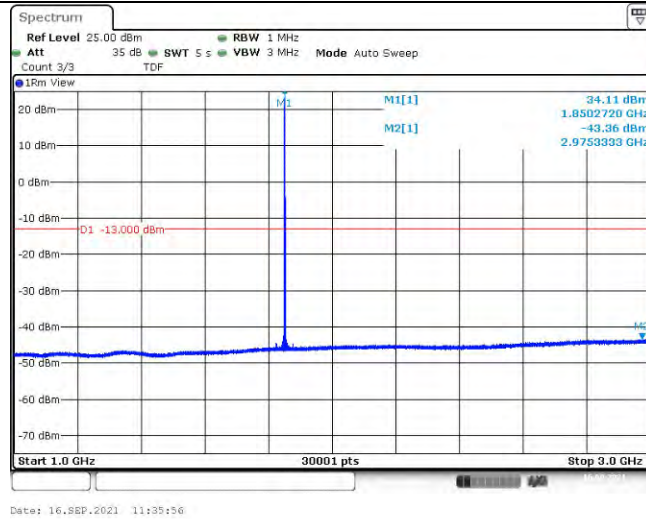
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

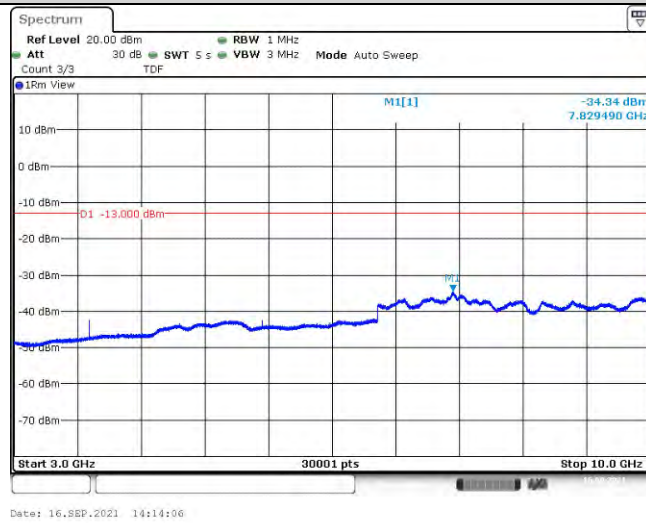
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

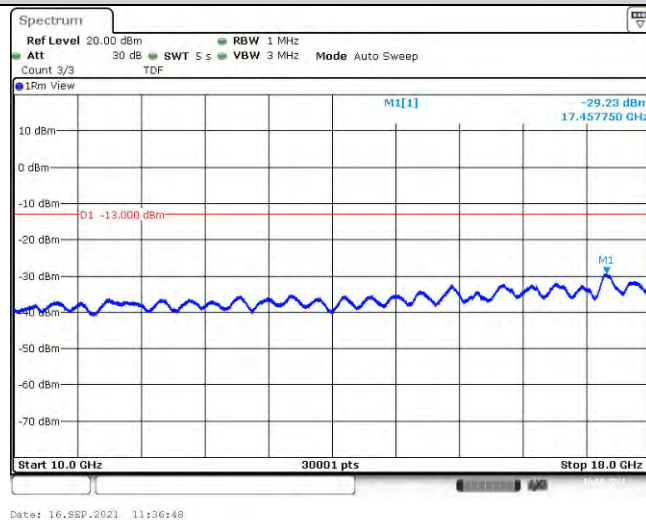
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



GSM1900-512-3000~10000MHz



GSM1900-512-10000~18000MHz



GSM1900-661-0.009~0.15MHz

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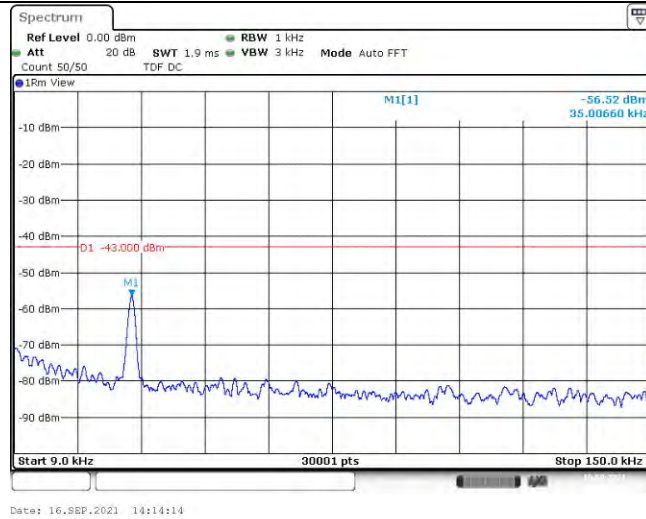
Tel.: (86)755-27521059

Fax: (86)755-27521011

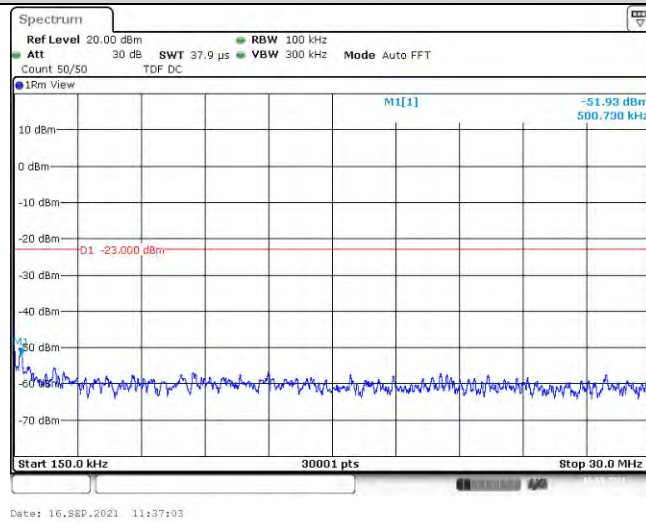
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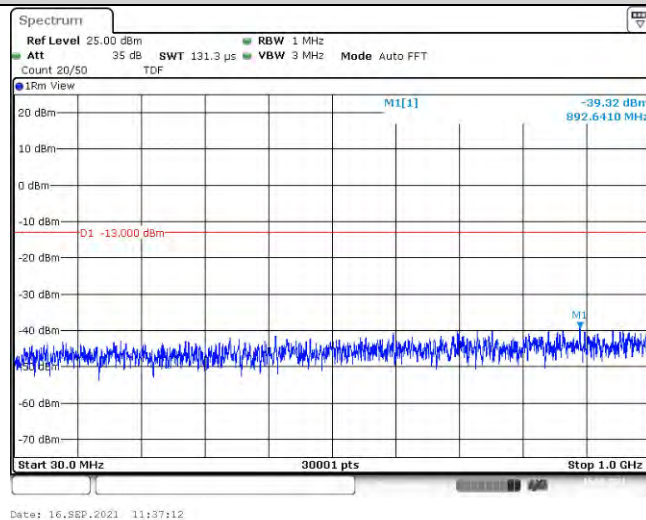
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz



GSM1900-661-1000~3000MHz

CTC Laboratories, Inc.

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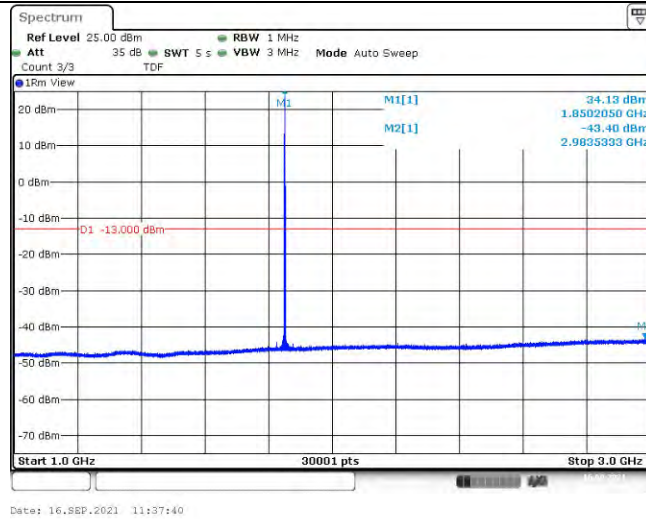
Tel.: (86)755-27521059

Fax: (86)755-27521011

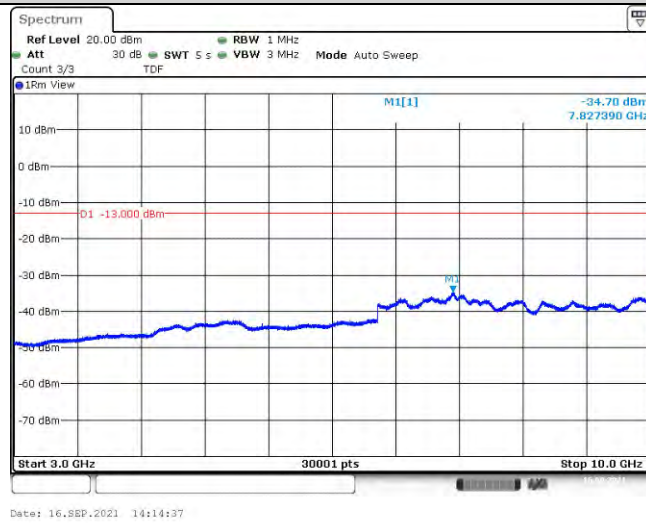
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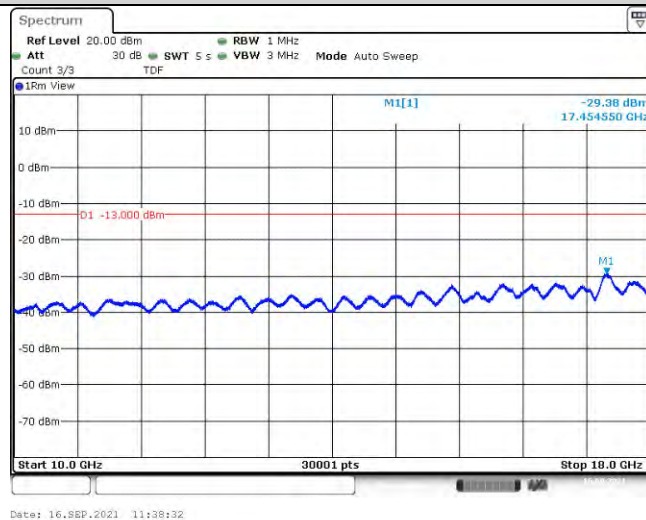
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GSM1900-661-3000~10000MHz



GSM1900-661-10000~18000MHz



GSM1900-810-0.009~0.15MHz

CTC Laboratories, Inc.

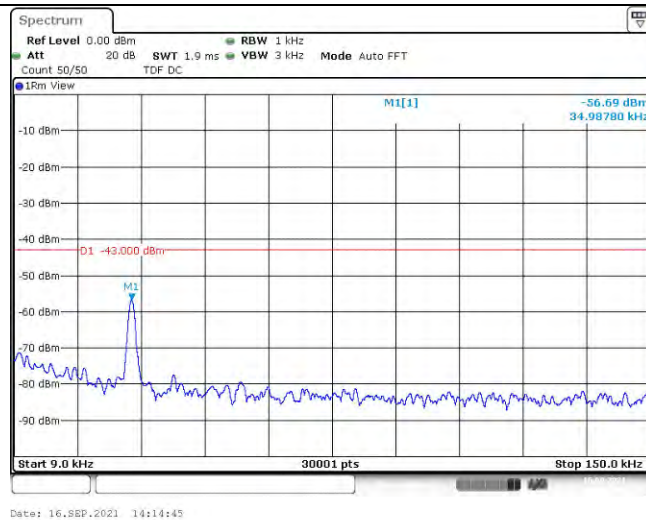
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

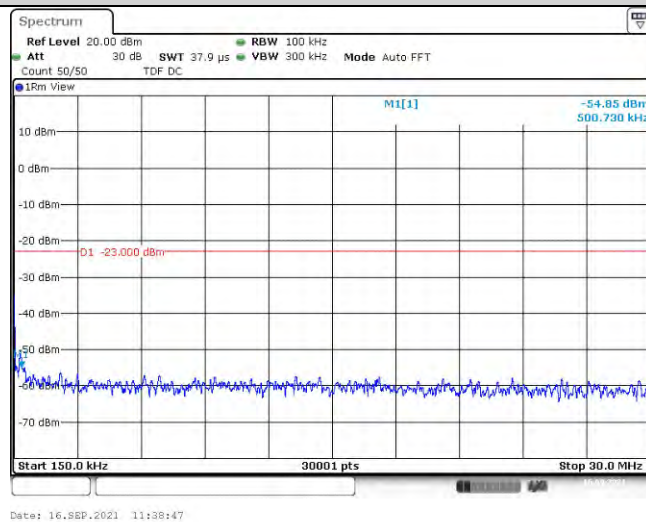
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

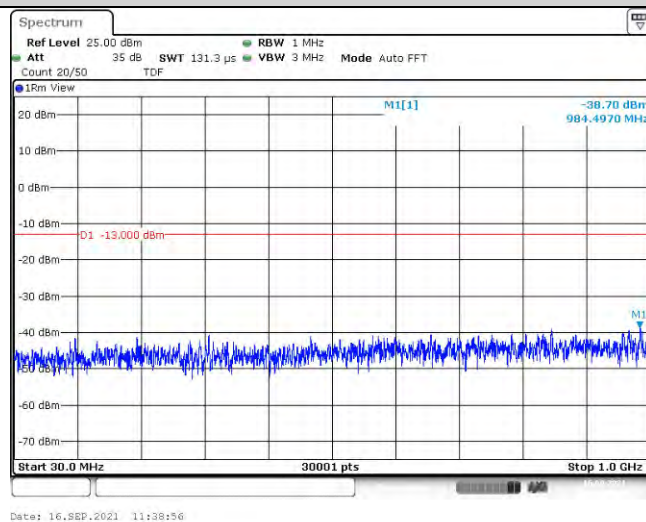
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GSM1900-810-0.15~30MHz



GSM1900-810-30~1000MHz



GSM1900-810-1000~3000MHz

CTC Laboratories, Inc.

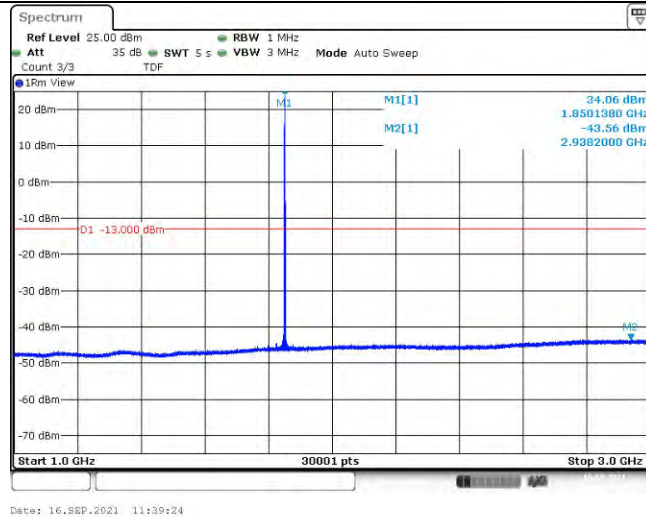
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

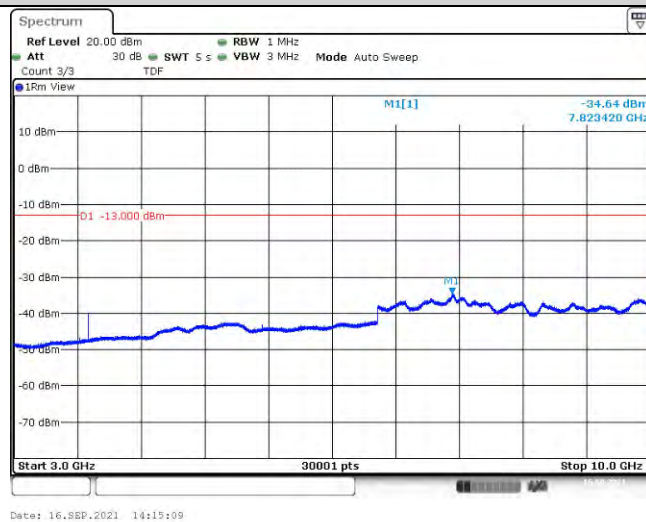
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

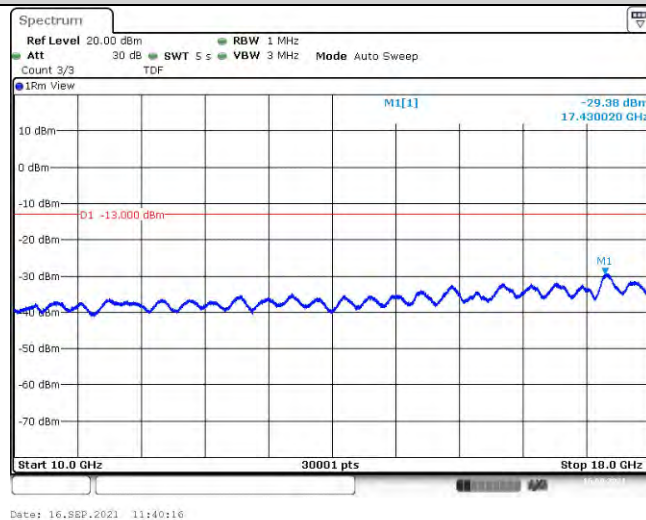
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



GSM1900-810-3000~10000MHz



GSM1900-810-10000~18000MHz



GPRS1900-512-0.009~0.15MHz

CTC Laboratories, Inc.

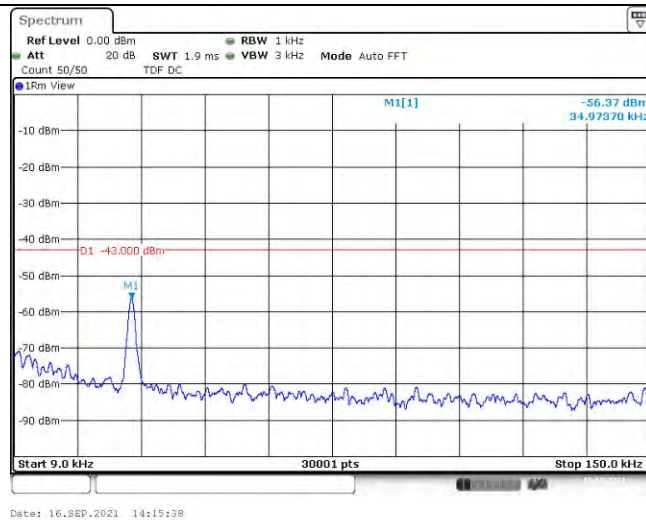
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

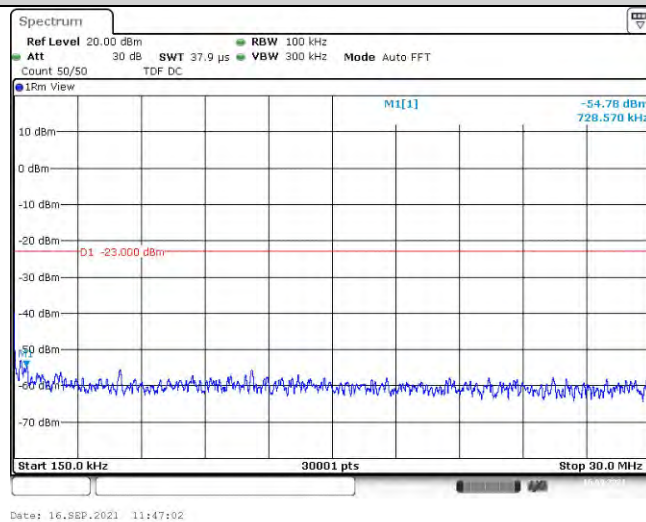
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

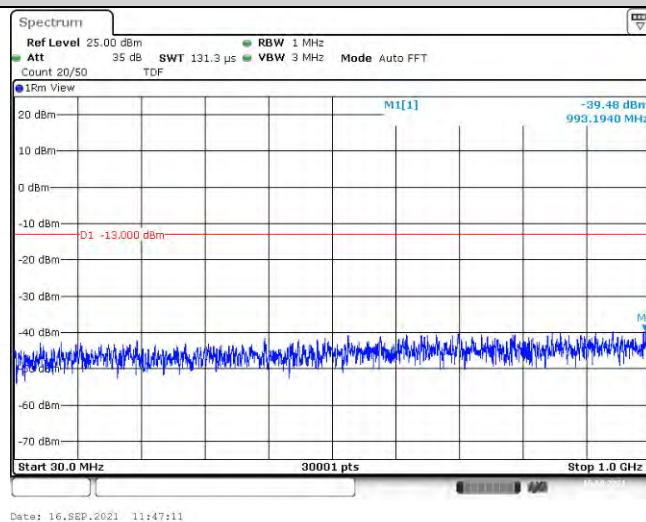
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



GPRS1900-512-0.15~30MHz



GPRS1900-512-30~1000MHz



GPRS1900-512-1000~3000MHz

CTC Laboratories, Inc.

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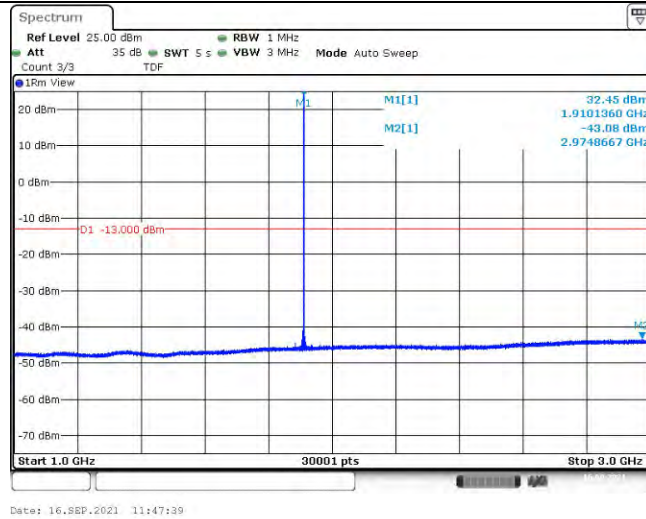
Tel.: (86)755-27521059

Fax: (86)755-27521011

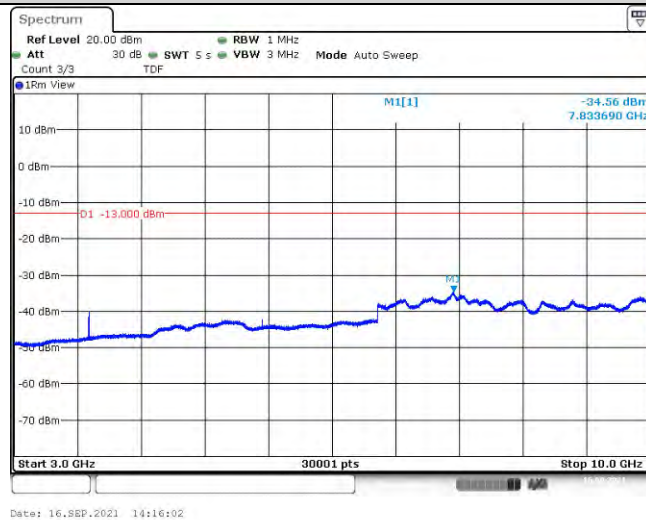
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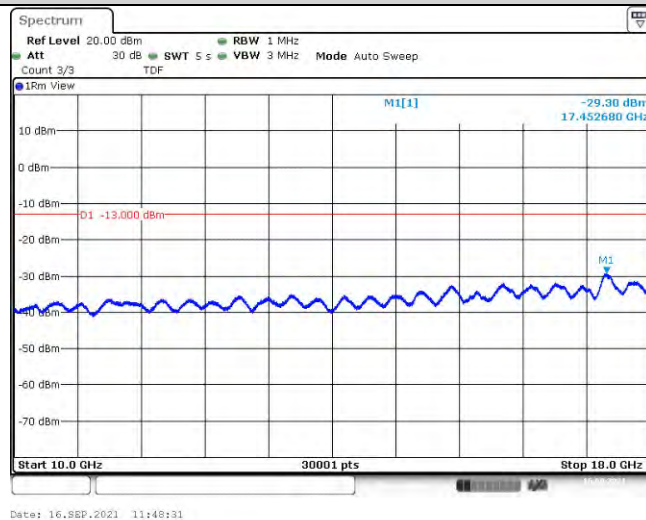
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



GPRS1900-512-3000~10000MHz



GPRS1900-512-10000~18000MHz



GPRS1900-661-0.009~0.15MHz

CTC Laboratories, Inc.

1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

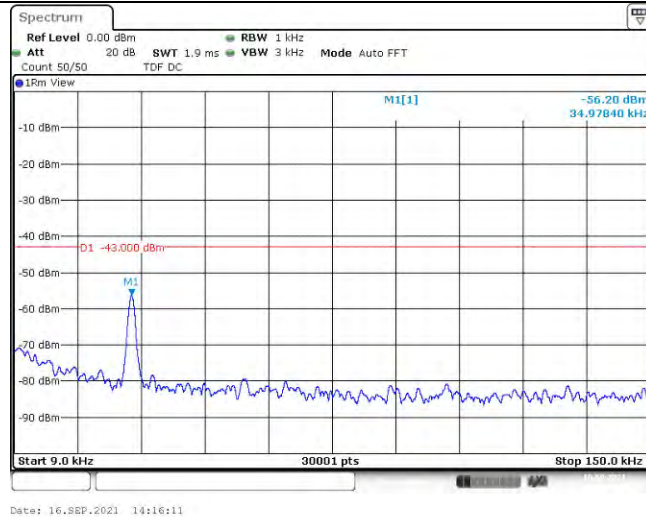
Tel.: (86)755-27521059

Fax: (86)755-27521011

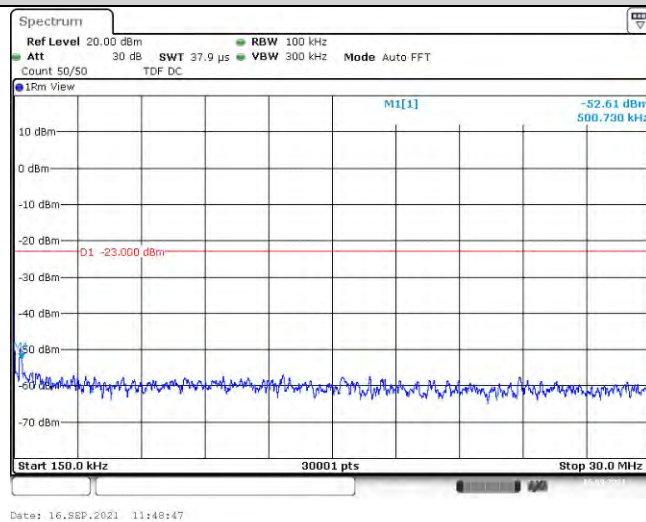
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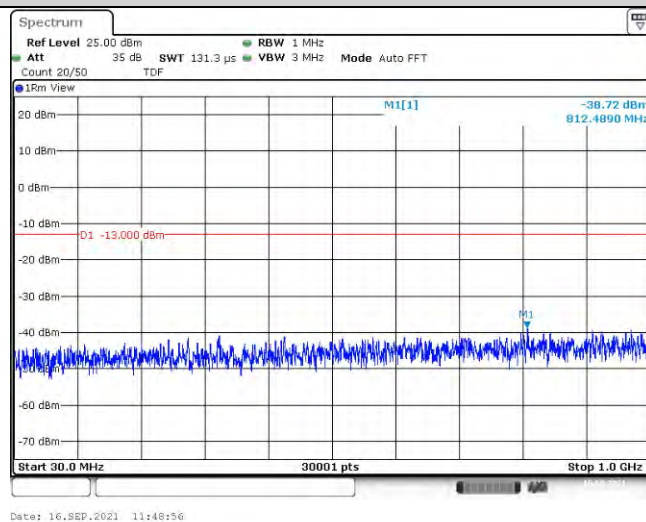
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



GPRS1900-661-0.15~30MHz



GPRS1900-661-30~1000MHz



GPRS1900-661-1000~3000MHz

CTC Laboratories, Inc.

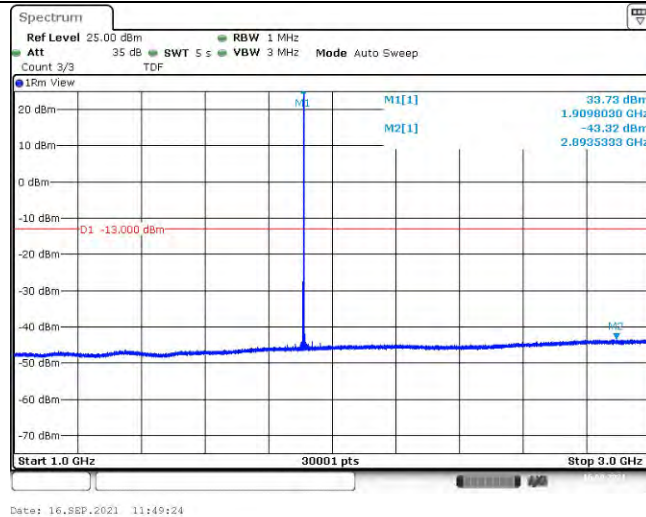
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

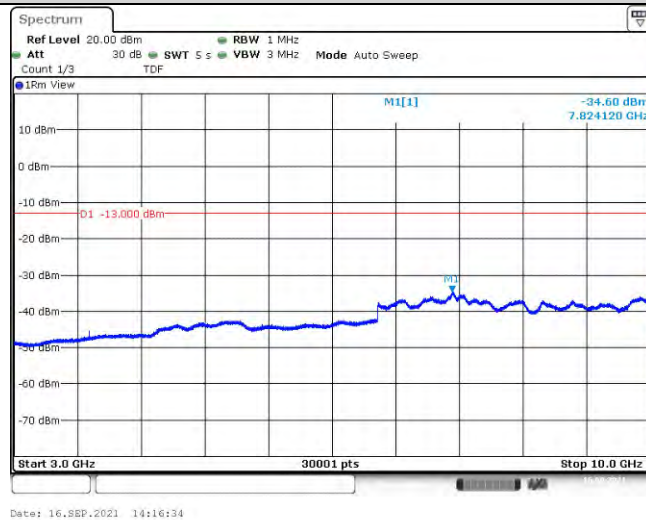
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

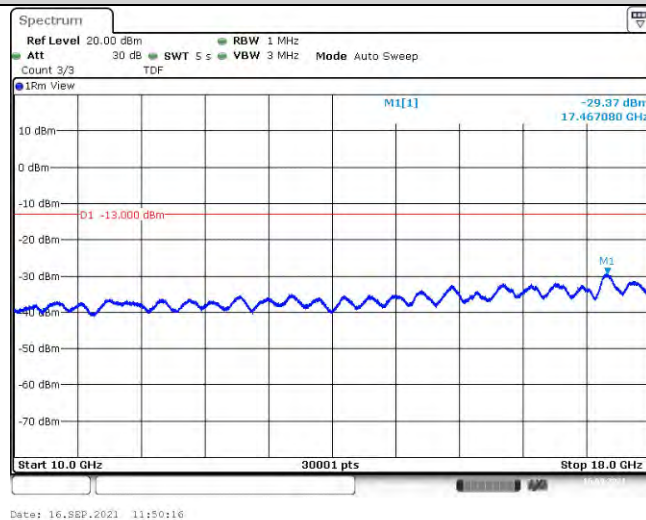
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



GPRS1900-661-3000~10000MHz



GPRS1900-661-10000~18000MHz



GPRS1900-810-0.009~0.15MHz

CTC Laboratories, Inc.

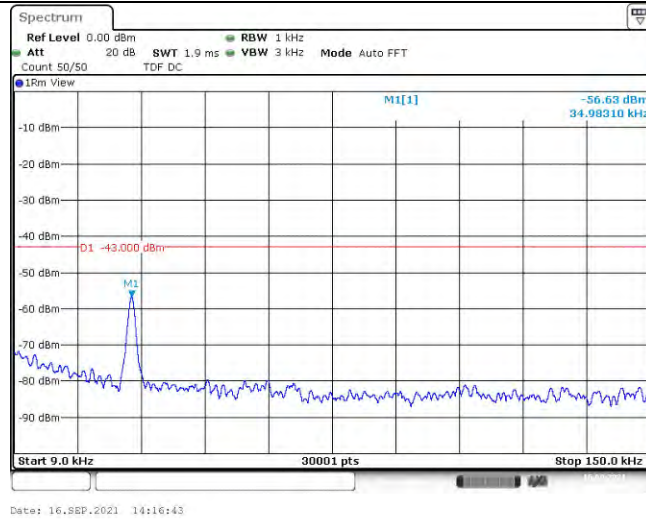
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

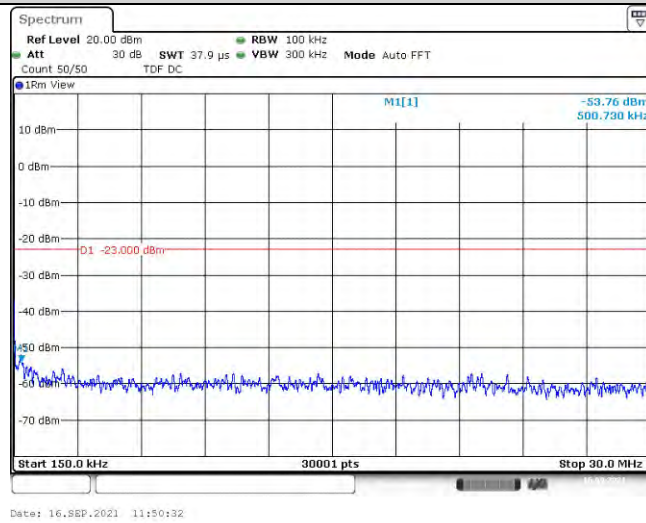
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Http://www.sz-ctc.org.cn

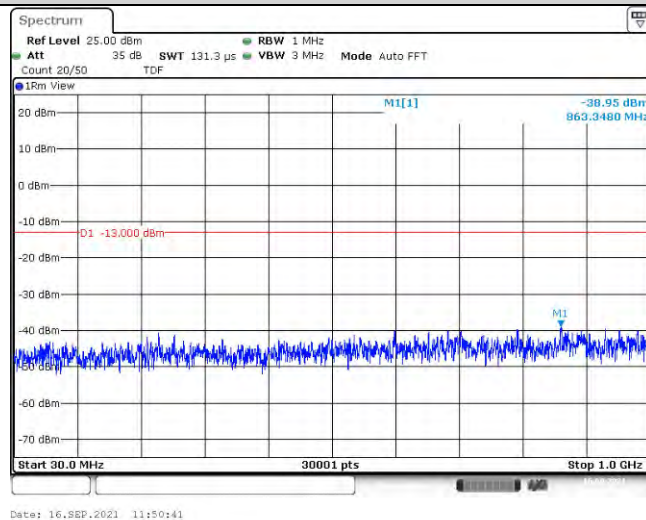
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GPRS1900-810-0.15~30MHz



GPRS1900-810-30~1000MHz



GPRS1900-810-1000~3000MHz

CTC Laboratories, Inc.

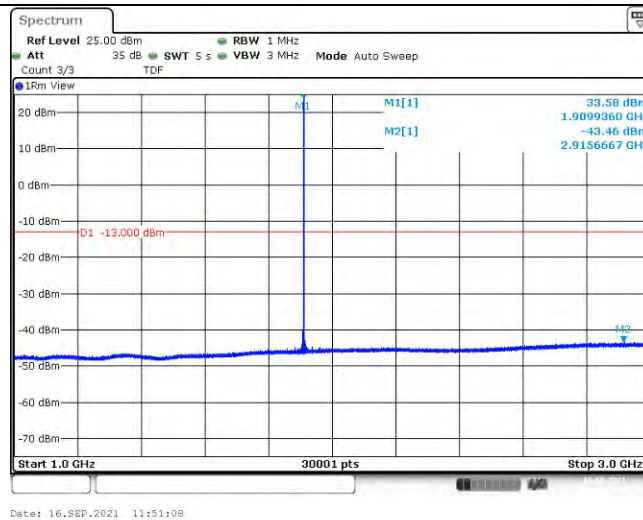
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

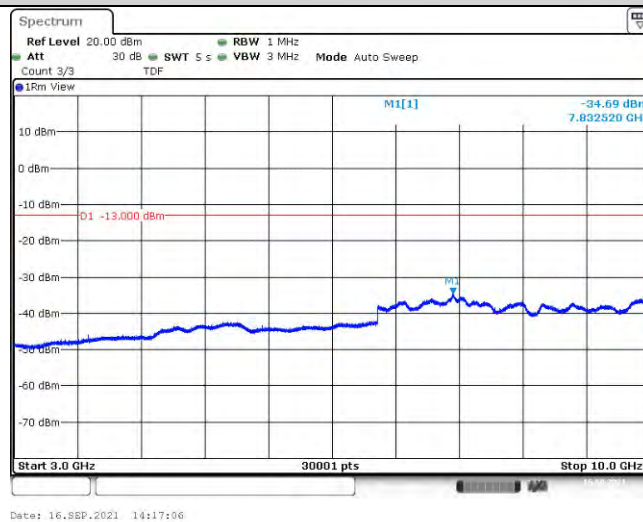
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

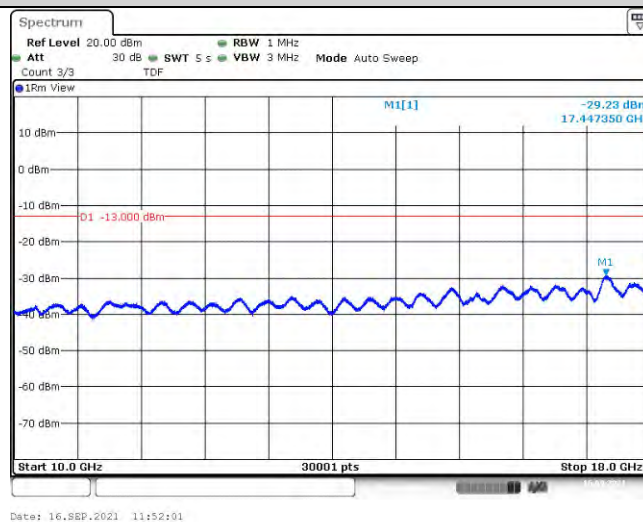
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GPRS1900-810-3000~10000MHz



GPRS1900-810-10000~18000MHz



EGPRS1900-512-0.15~30MHz

CTC Laboratories, Inc.

1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

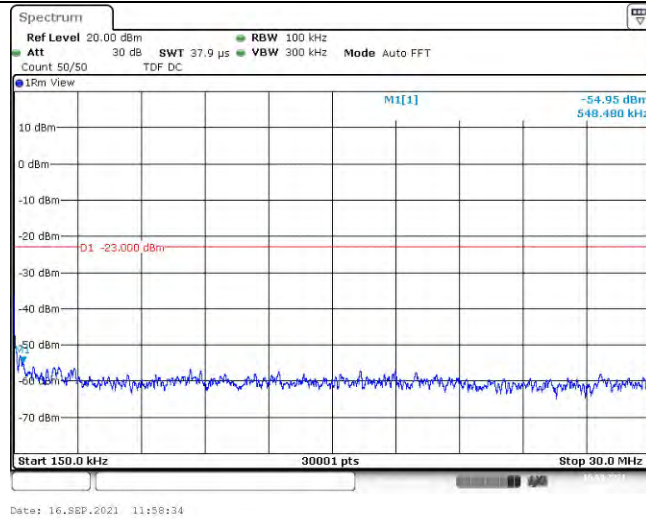
Tel.: (86)755-27521059

Fax: (86)755-27521011

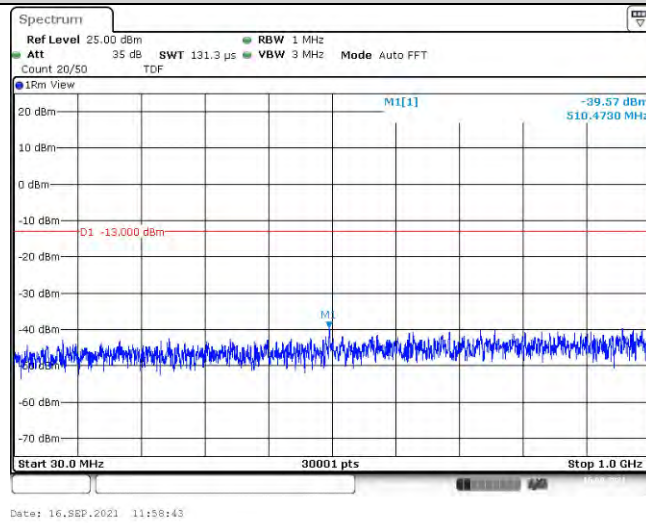
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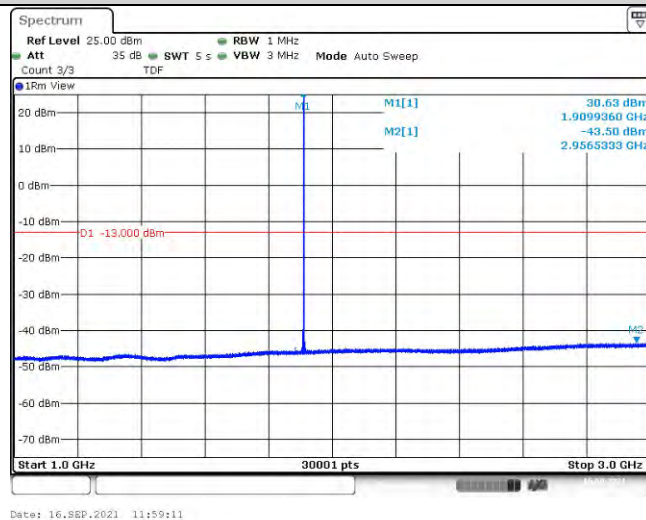
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~3000MHz



EGPRS1900-512-3000~10000MHz

CTC Laboratories, Inc.

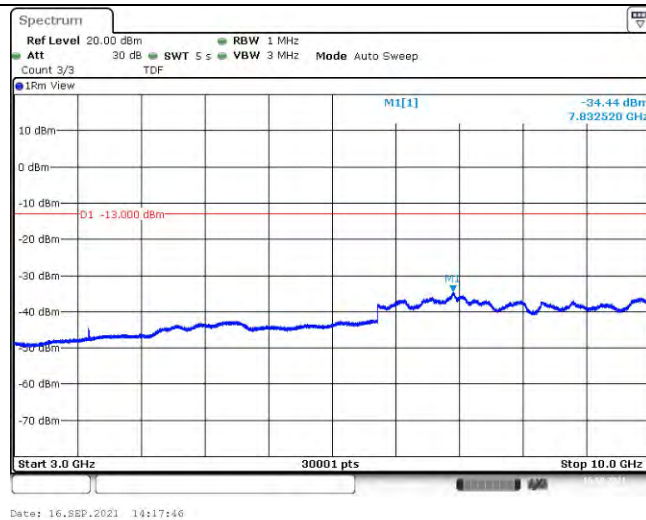
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

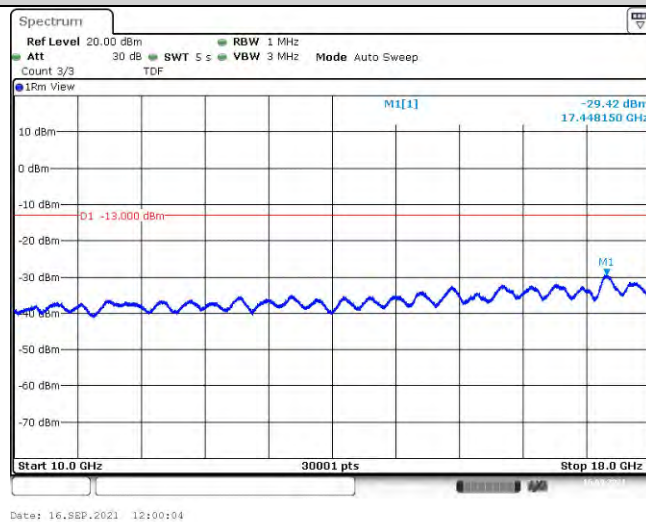
Fax: (86)755-27521011

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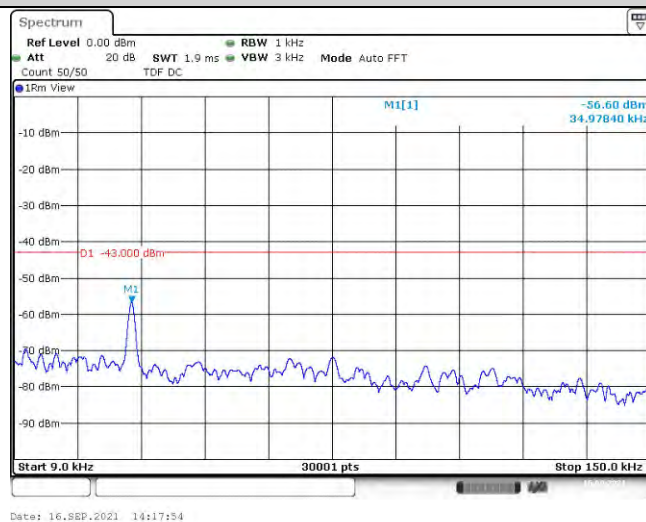
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EGPRS1900-512-10000~18000MHz



EGPRS1900-661-0.009~0.15MHz



EGPRS1900-661-0.15~30MHz

CTC Laboratories, Inc.

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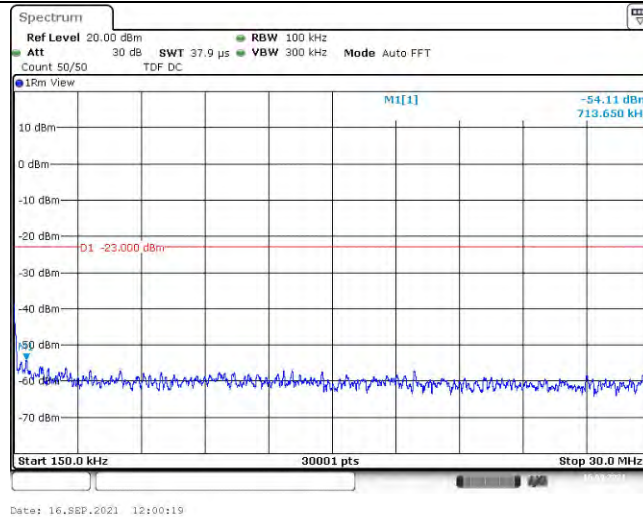
Tel.: (86)755-27521059

Fax: (86)755-27521011

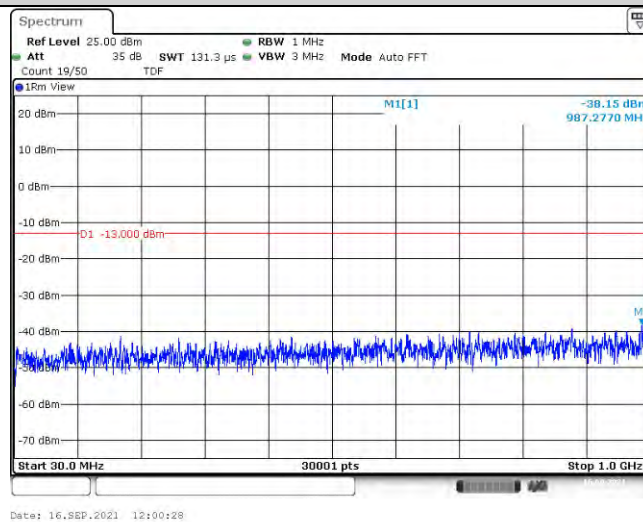
Http://www.sz-ctc.org.cn



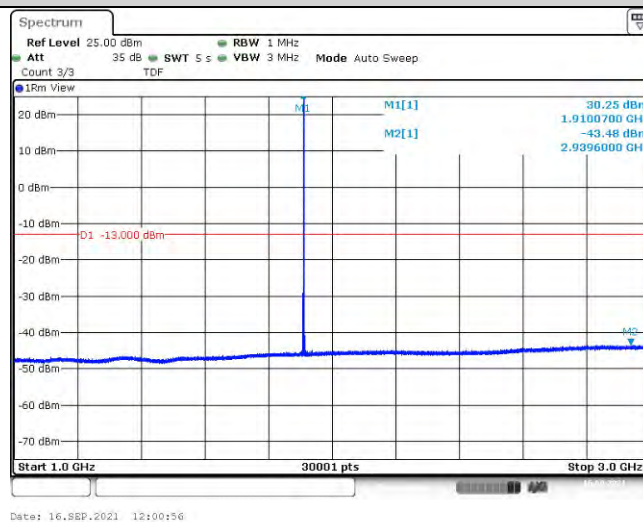
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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~3000MHz



EGPRS1900-661-3000~10000MHz

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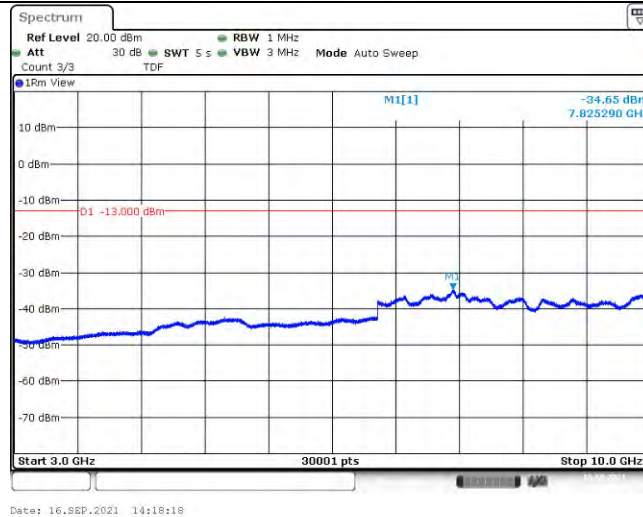
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

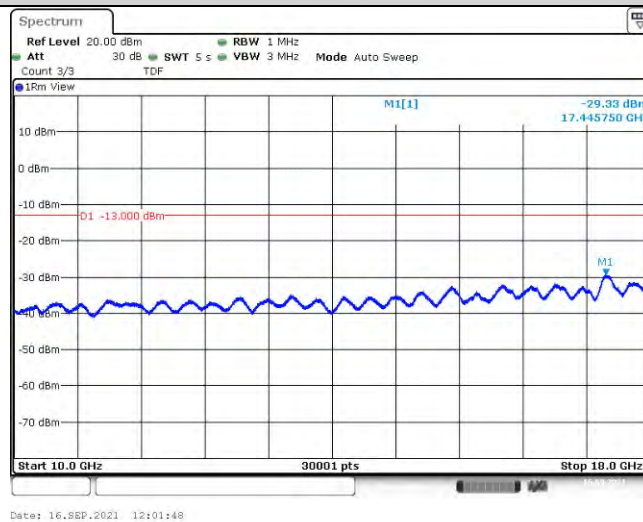
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

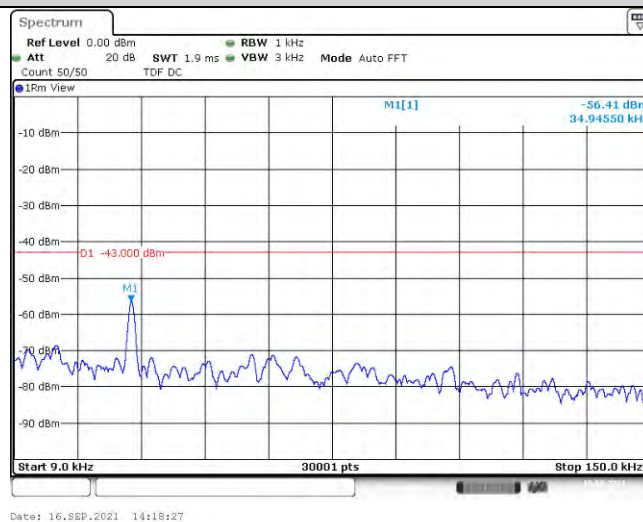
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EGPRS1900-661-10000~18000MHz



EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

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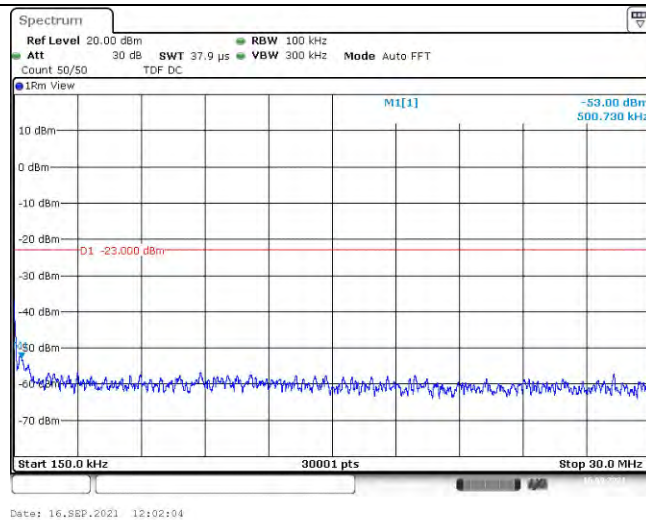
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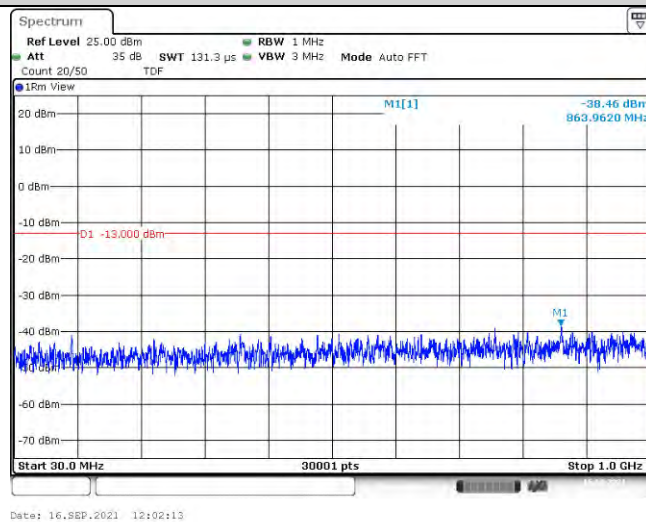
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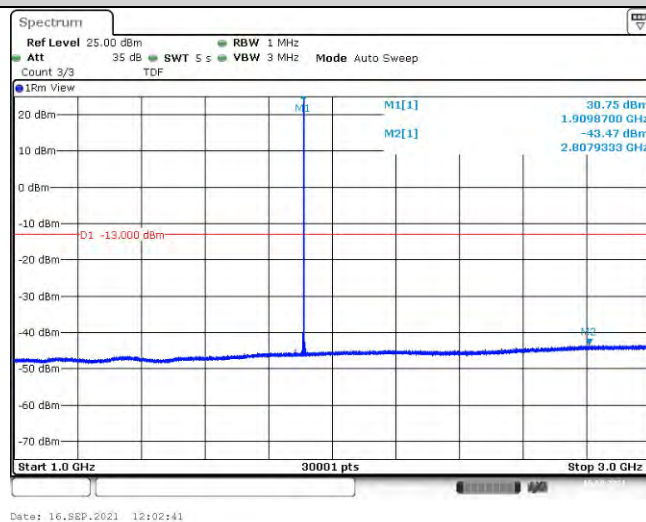
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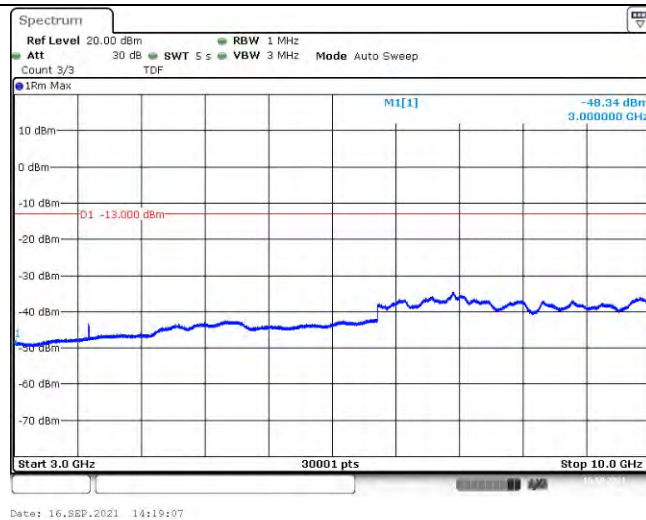
EGPRS1900-810-30~1000MHz



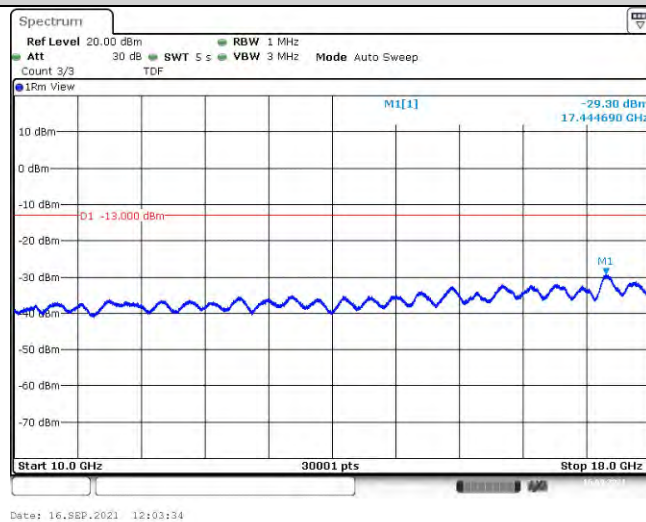
EGPRS1900-810-1000~3000MHz



EGPRS1900-810-3000~10000MHz



EGPRS1900-810-10000~18000MHz



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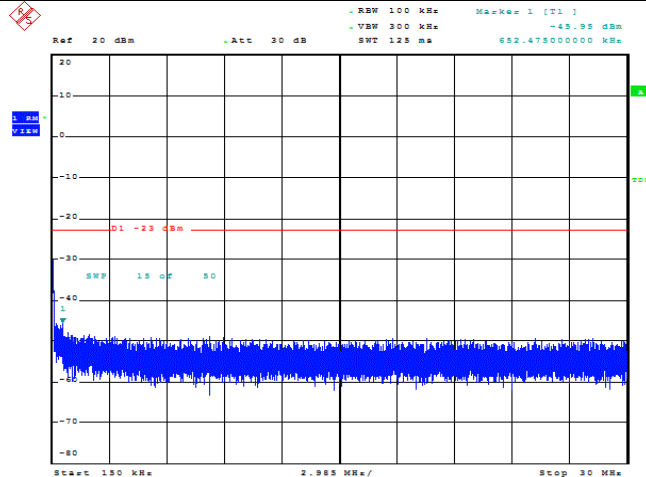
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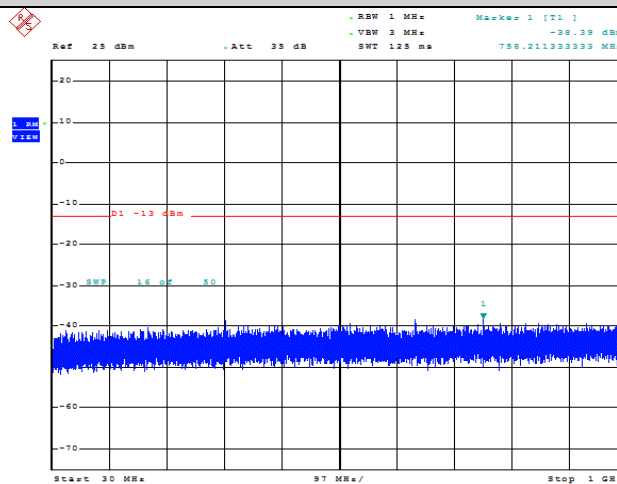


Band2-9262-0.15~30MHz



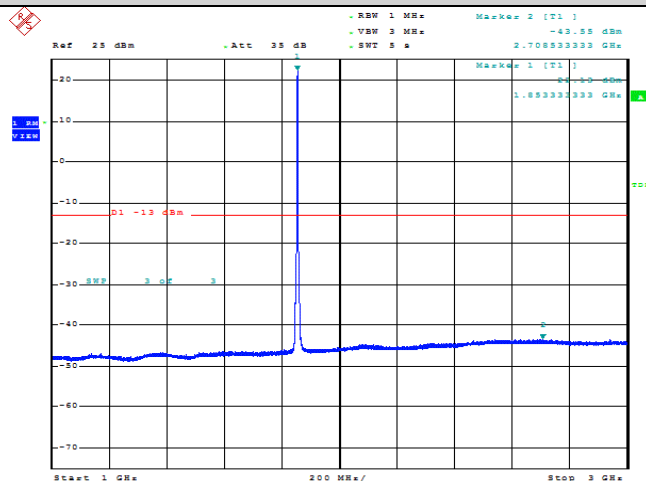
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Band2-9262-30~1000MHz



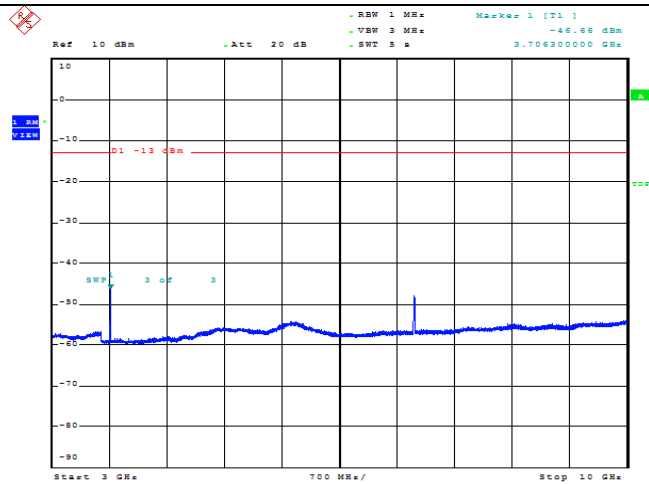
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Band2-9262-1000~3000MHz



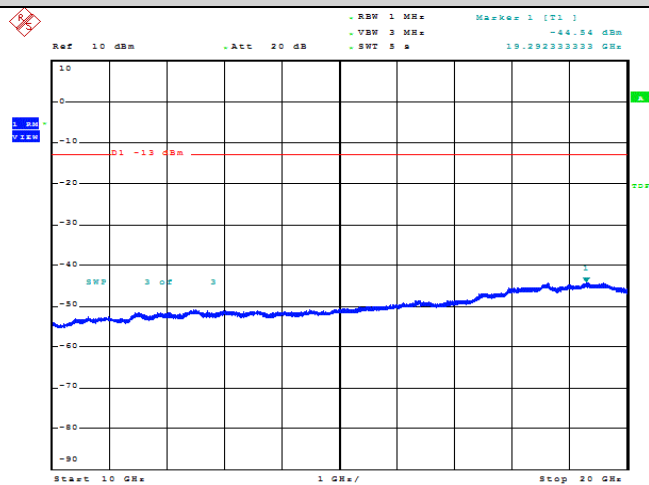
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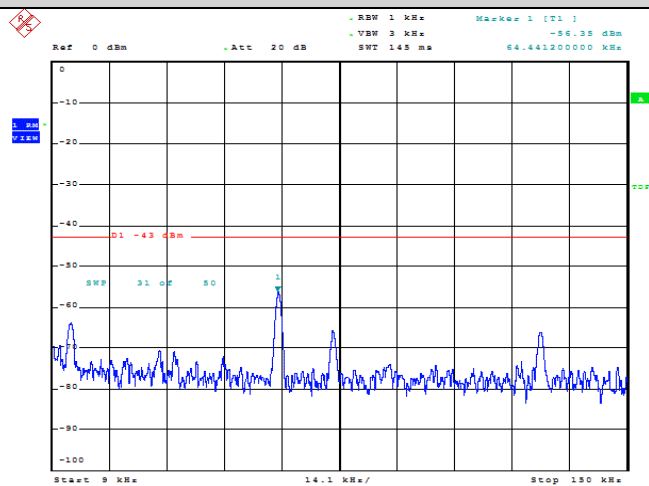
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Band2-9262-10000~20000MHz



Date: 14.SEP.2021 10:59:37

Band2-9262-0.009~0.15MHz



Date: 14.SEP.2021 10:57:45

Band2-9400-30~1000MHz

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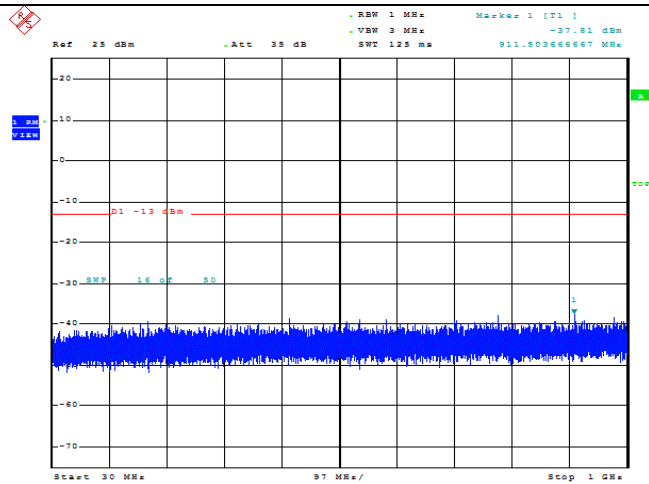
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Tel.: (86)755-27521059

Fax: (86)755-27521011

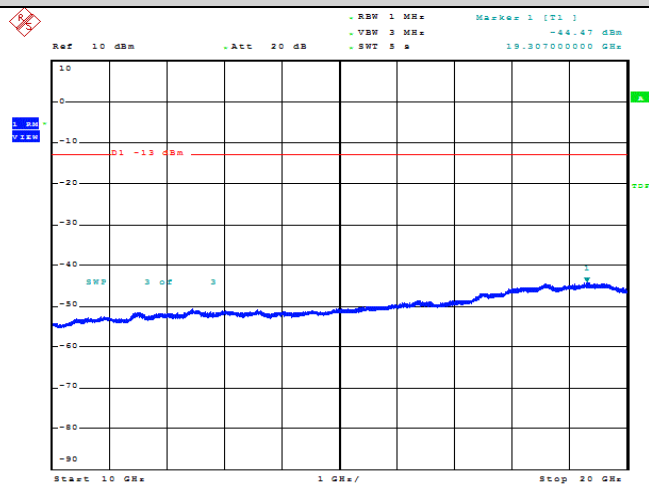
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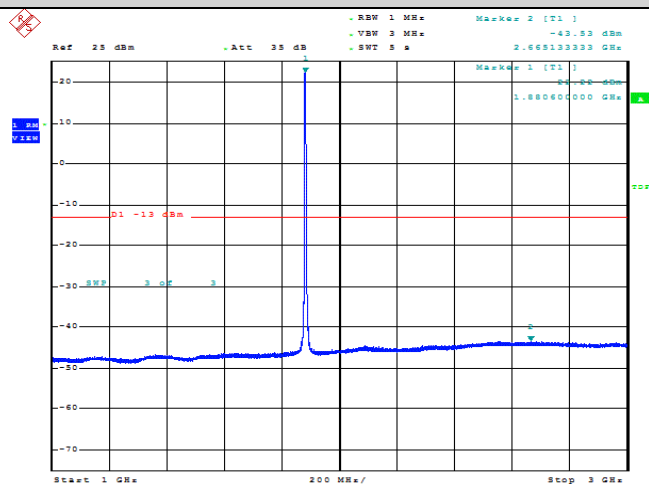
Date: 14.SEP.2021 11:01:00

Band2-9400-10000~20000MHz



Date: 14.SEP.2021 11:02:33

Band2-9400-1000~3000MHz



Date: 14.SEP.2021 11:01:32

Band2-9400-0.15~30MHz

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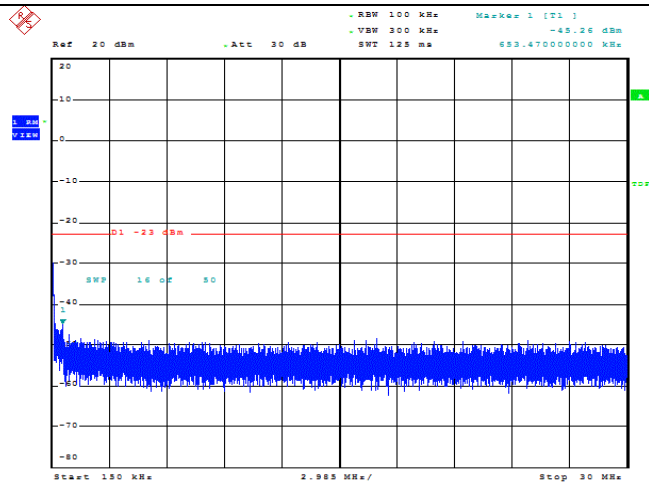
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

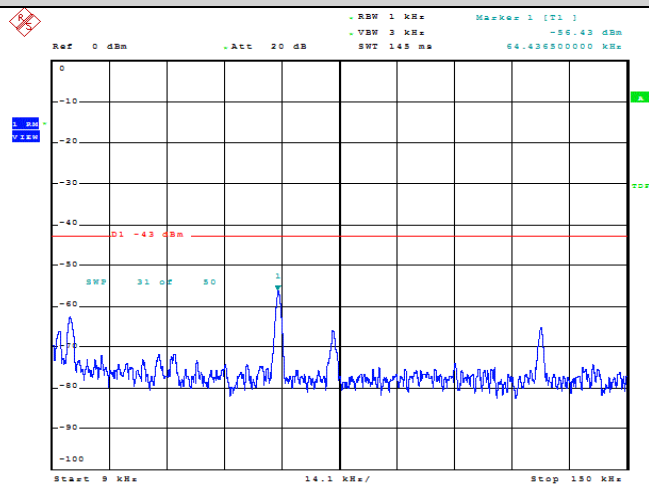
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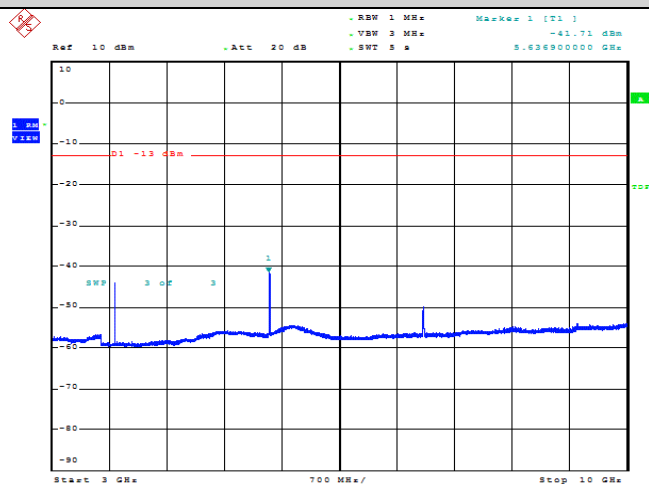
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Band2-9400-0.009~0.15MHz



Date: 14.SEP.2021 11:00:20

Band2-9400-3000~10000MHz



Date: 14.SEP.2021 11:02:03

Band2-9538-10000~20000MHz

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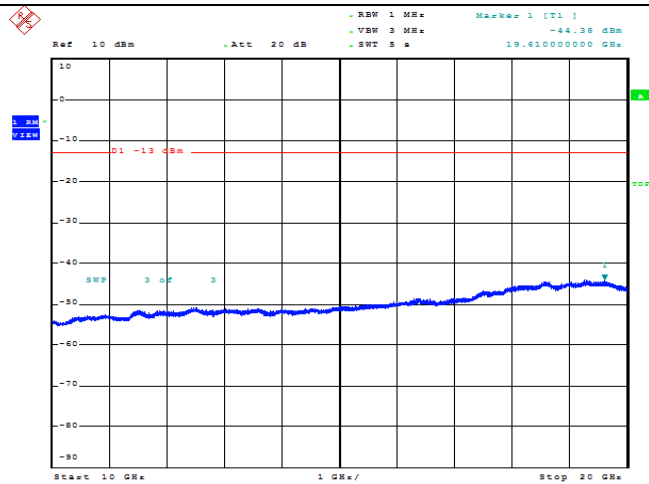
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

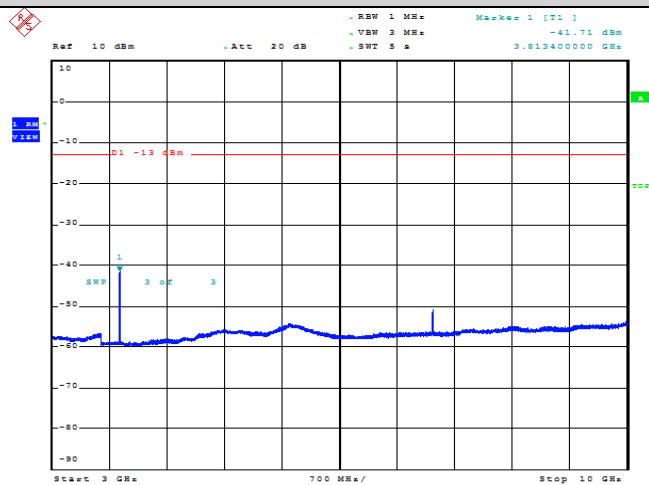
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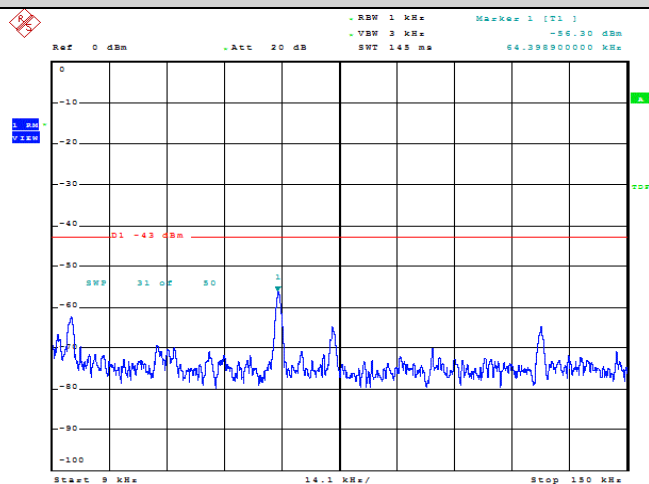
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Band2-9538-3000~10000MHz



Date: 14.SEP.2021 11:04:38

Band2-9538-0.009~0.15MHz



Date: 14.SEP.2021 11:02:56

Band2-9538-0.15~30MHz

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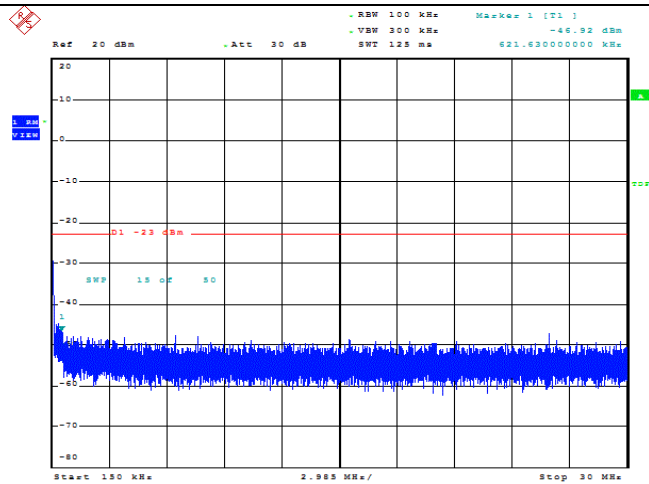
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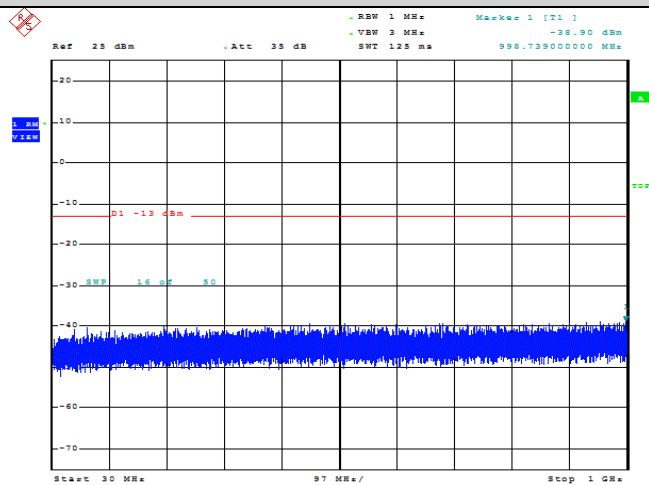
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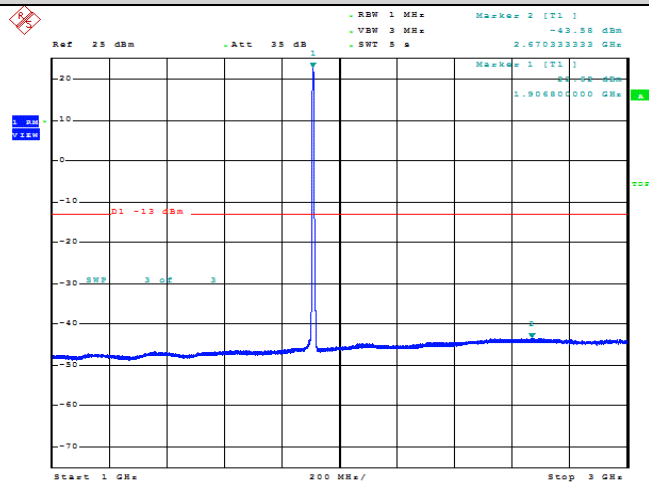
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Band2-9538-30~1000MHz



Band2-9538-1000~3000MHz



Band5-4132-0.15~30MHz

CTC Laboratories, Inc.

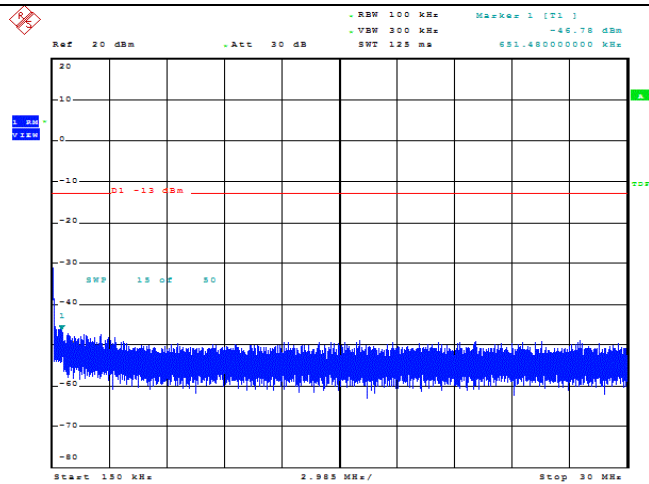
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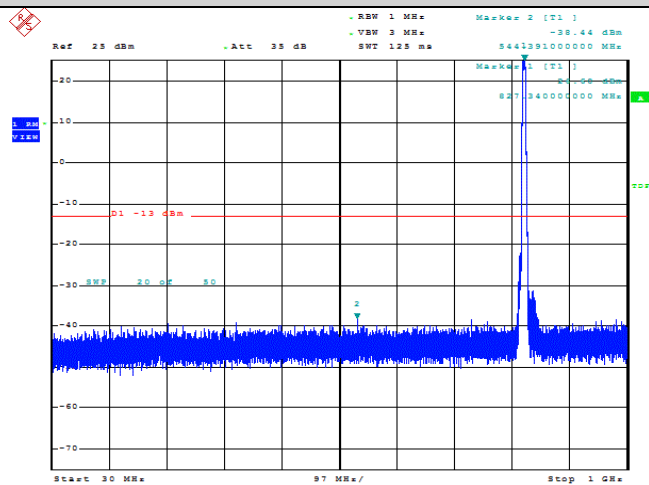
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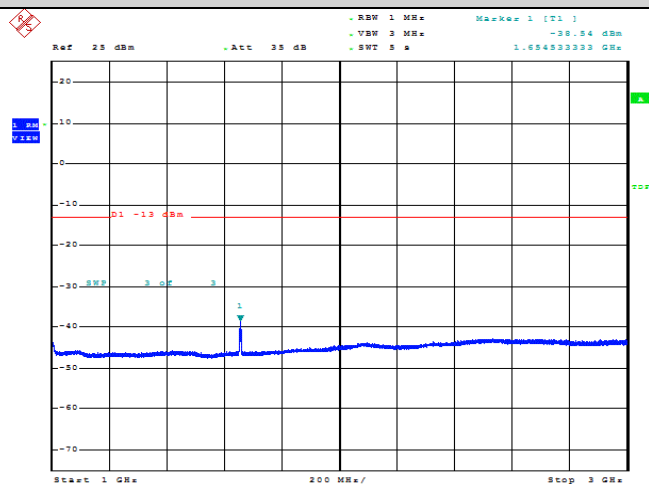
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Band5-4132-30~1000MHz



Date: 14.SEP.2021 17:17:33

Band5-4132-1000~3000MHz



Date: 14.SEP.2021 17:18:03

Band5-4132-3000~10000MHz

CTC Laboratories, Inc.

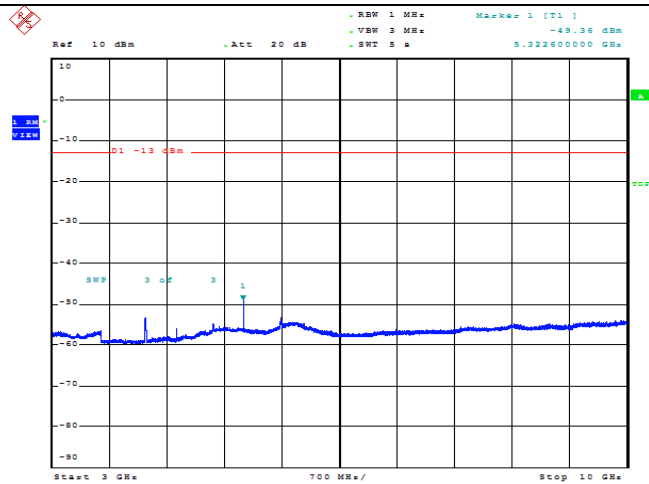
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Tel.: (86)755-27521059

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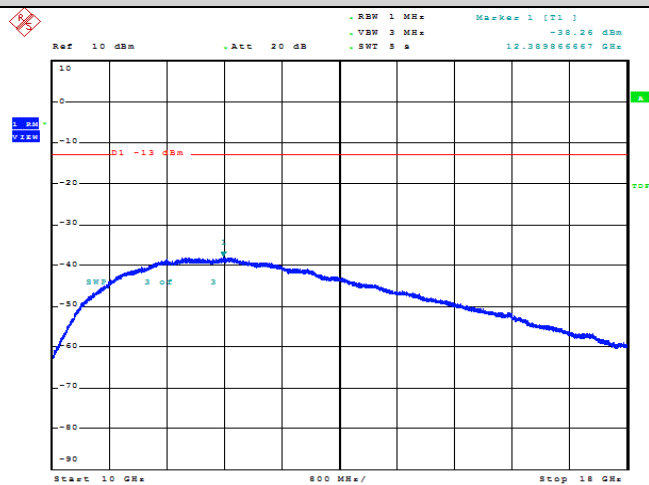
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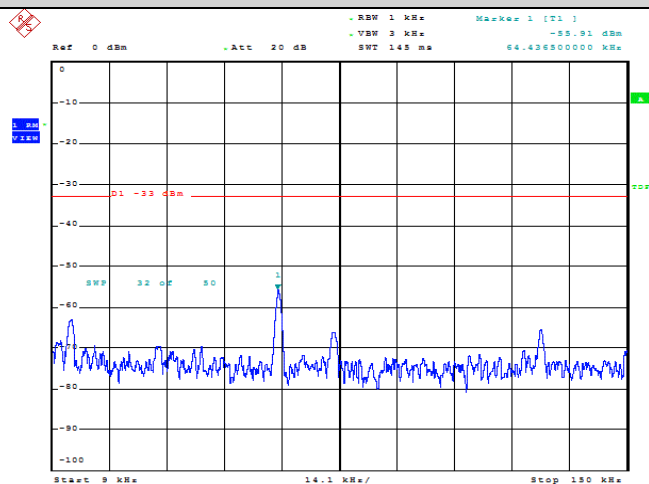
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Band5-4132-10000~18000MHz



Date: 14.SEP.2021 17:19:03

Band5-4132-0.009~0.15MHz



Date: 14.SEP.2021 17:16:50

Band5-4183-30~1000MHz

CTC Laboratories, Inc.

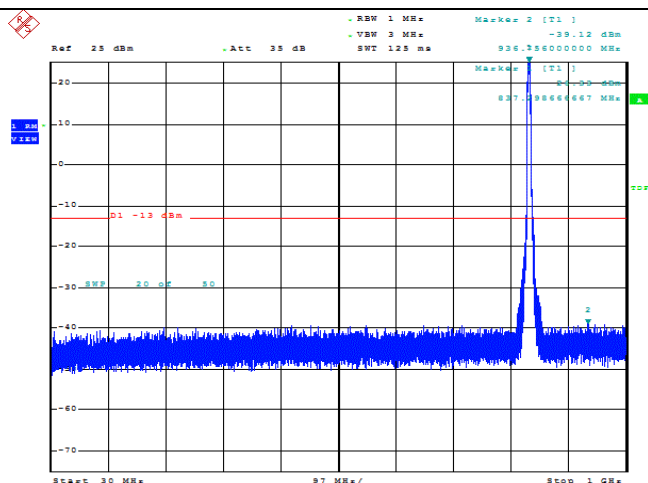
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

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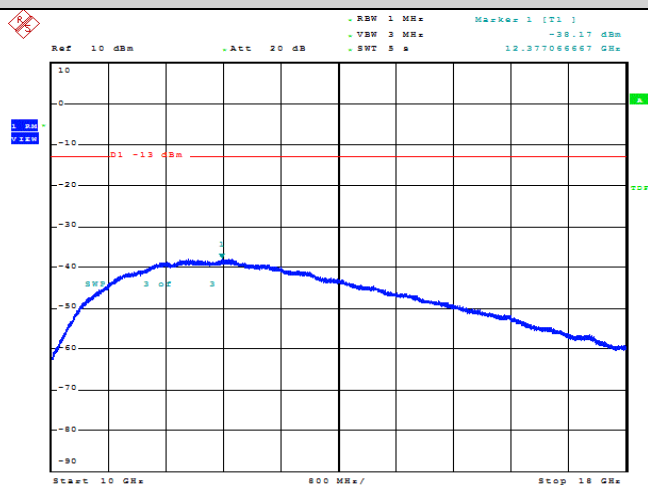
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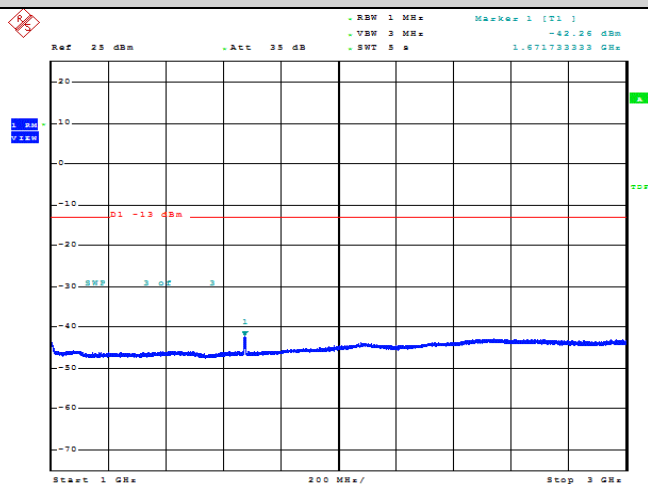
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Band5-4183-10000~18000MHz



Date: 14.SEP.2021 17:21:39

Band5-4183-1000~3000MHz



Date: 14.SEP.2021 17:20:40

Band5-4183-0.15~30MHz

CTC Laboratories, Inc.

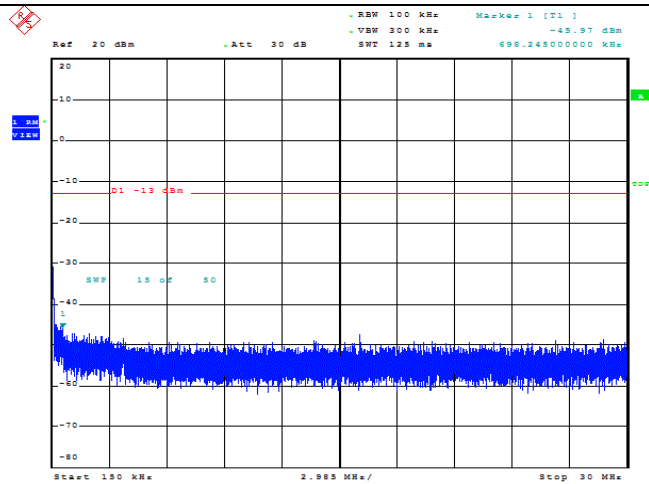
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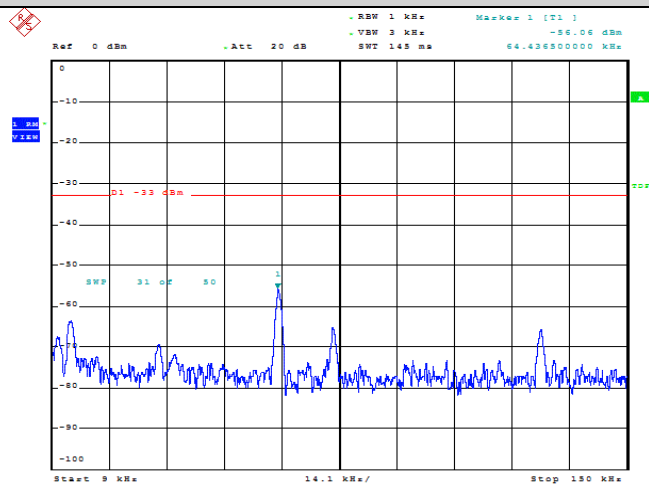
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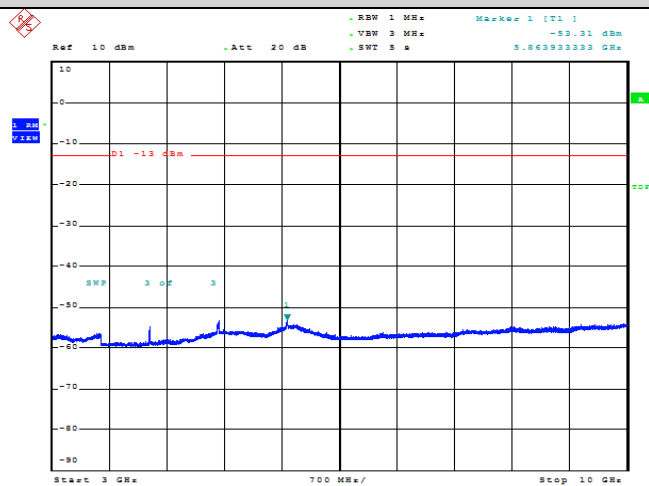
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Band5-4183-0.009~0.15MHz



Band5-4183-3000~10000MHz



Band5-4233-10000~18000MHz

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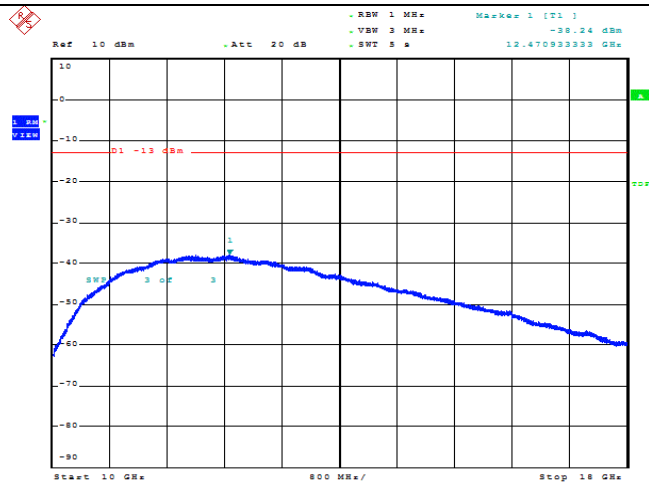
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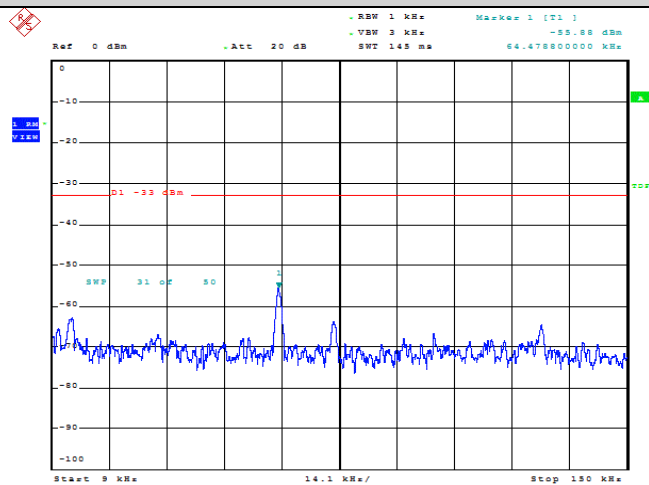


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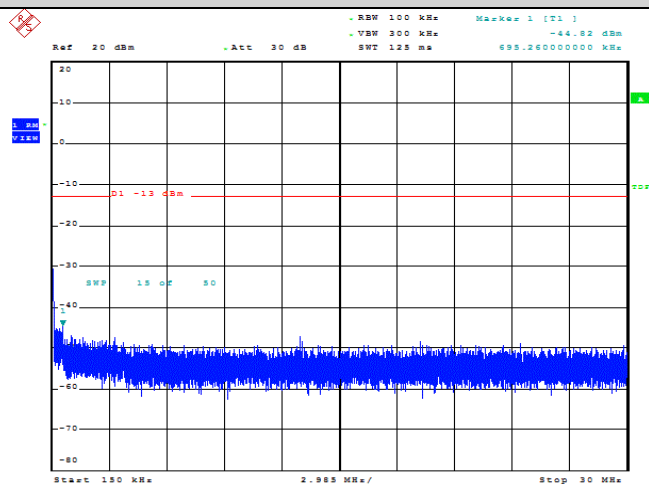
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Date: 14.SEP.2021 17:22:03

Band5-4233-0.15~30MHz



Date: 14.SEP.2021 17:22:23

Band5-4233-30~1000MHz

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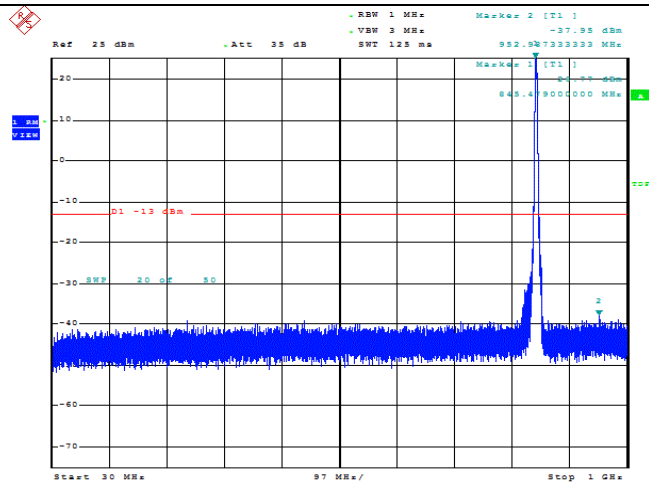
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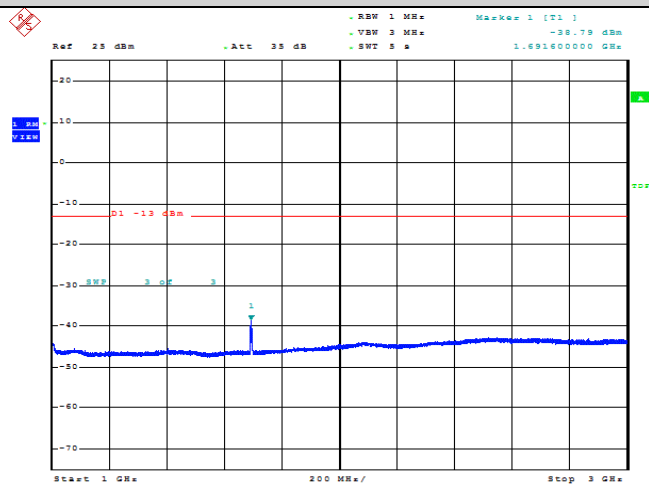


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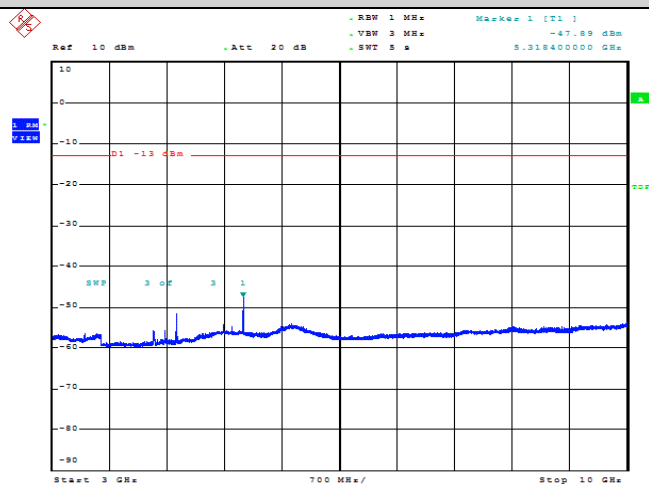
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Band5-4233-1000~3000MHz



Date: 14.SEP.2021 17:23:16

Band5-4233-3000~10000MHz



Date: 14.SEP.2021 17:23:46

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3.5. Band Edge compliance

LIMIT

FCC: §22.917, §24.238, §27.53 (h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC: §90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

RSS132§5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS133§6.5

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS139§6.6

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

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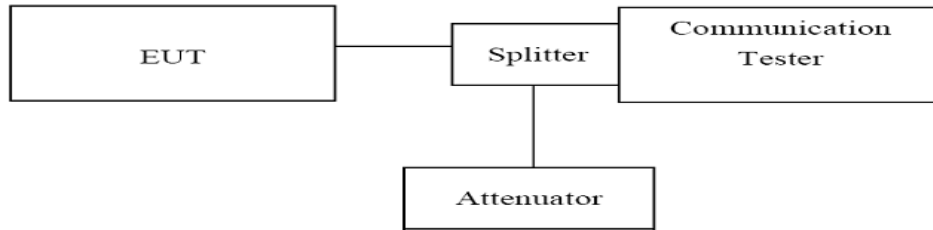
Tel.: (86)755-27521059

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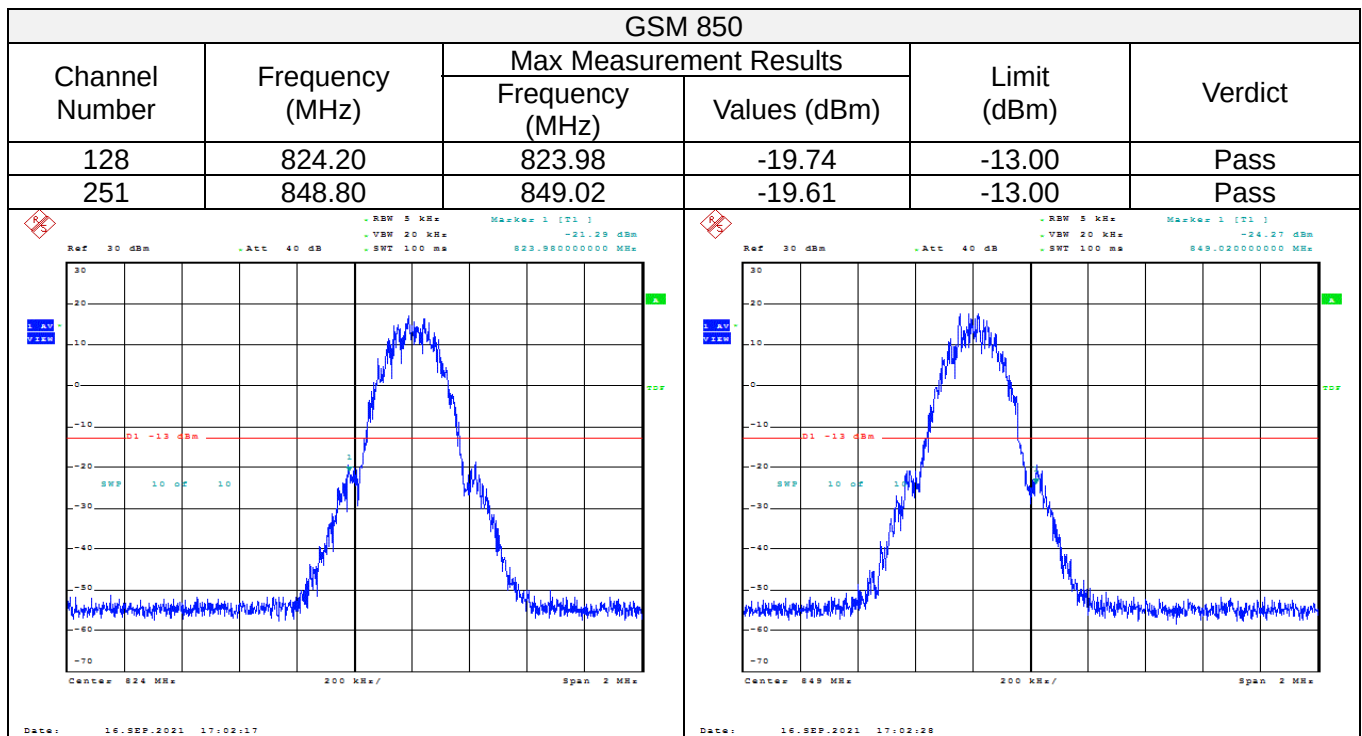
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**TEST CONFIGURATION****TEST PROCEDURE**

The transmitter output was connected to a R&S CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

TEST RESULTS

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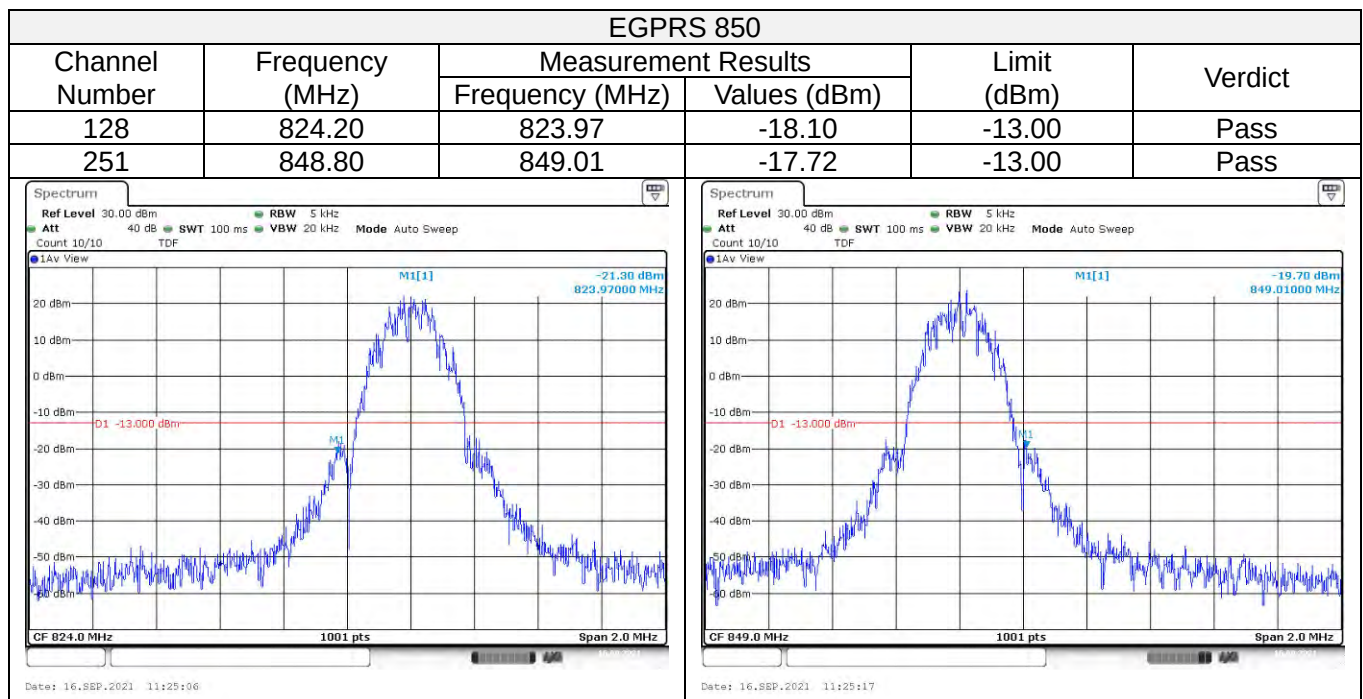
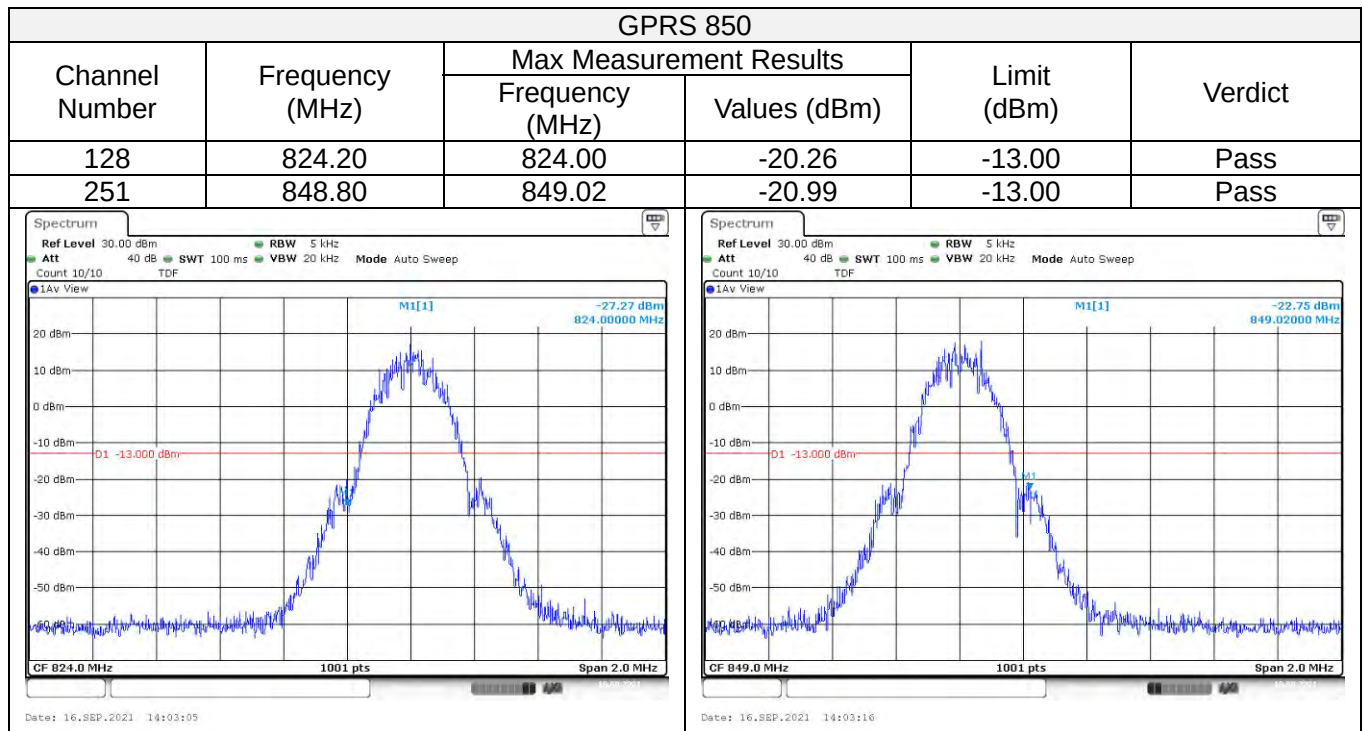
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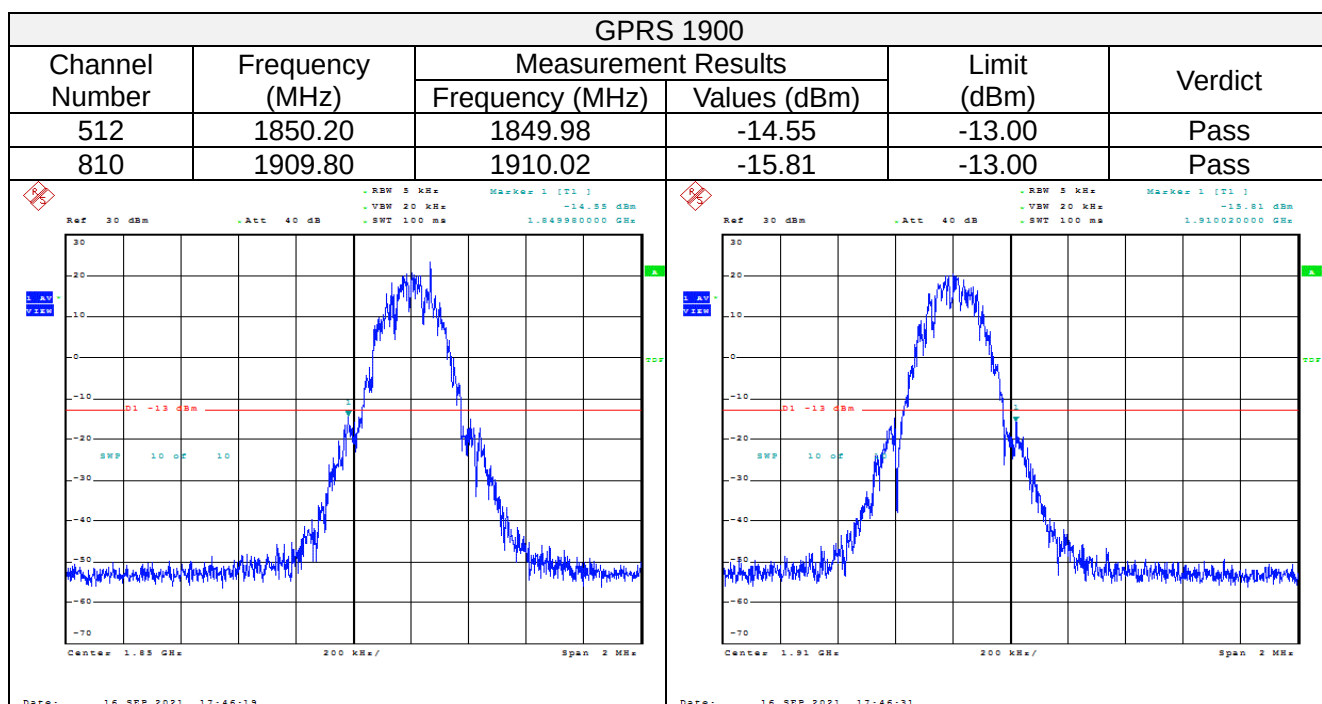
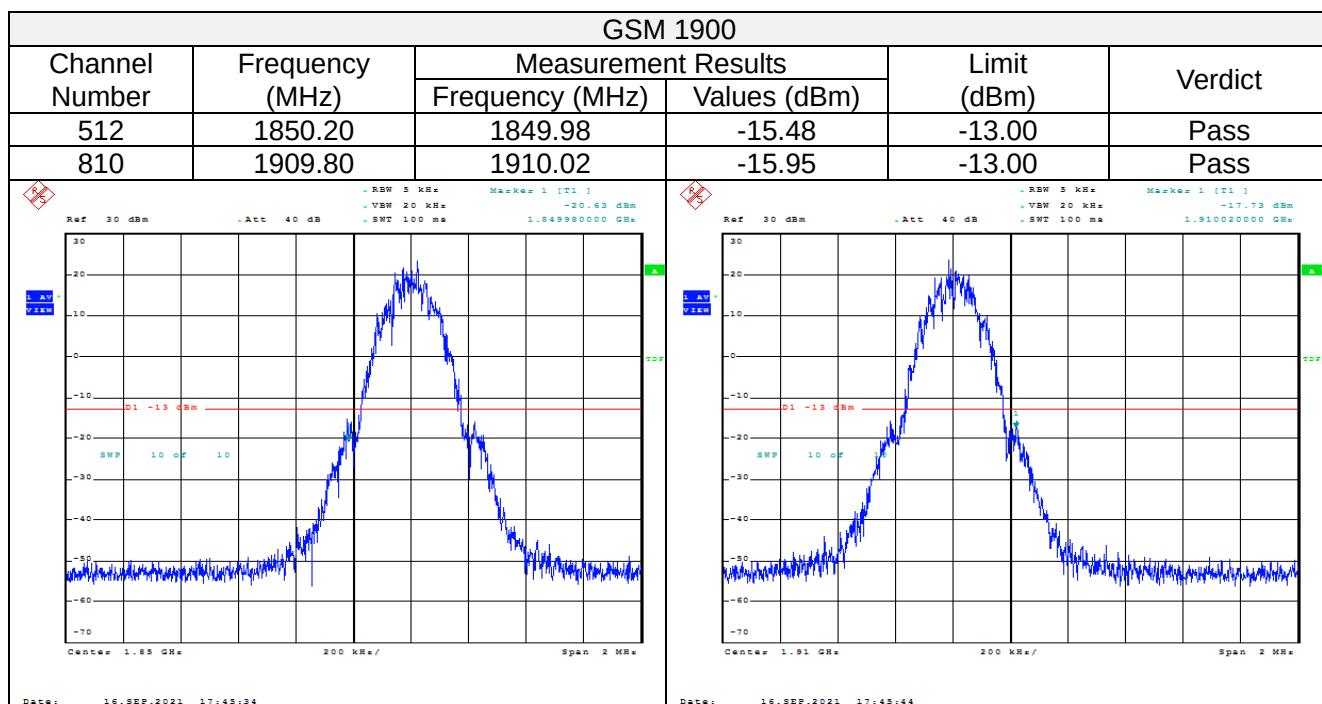
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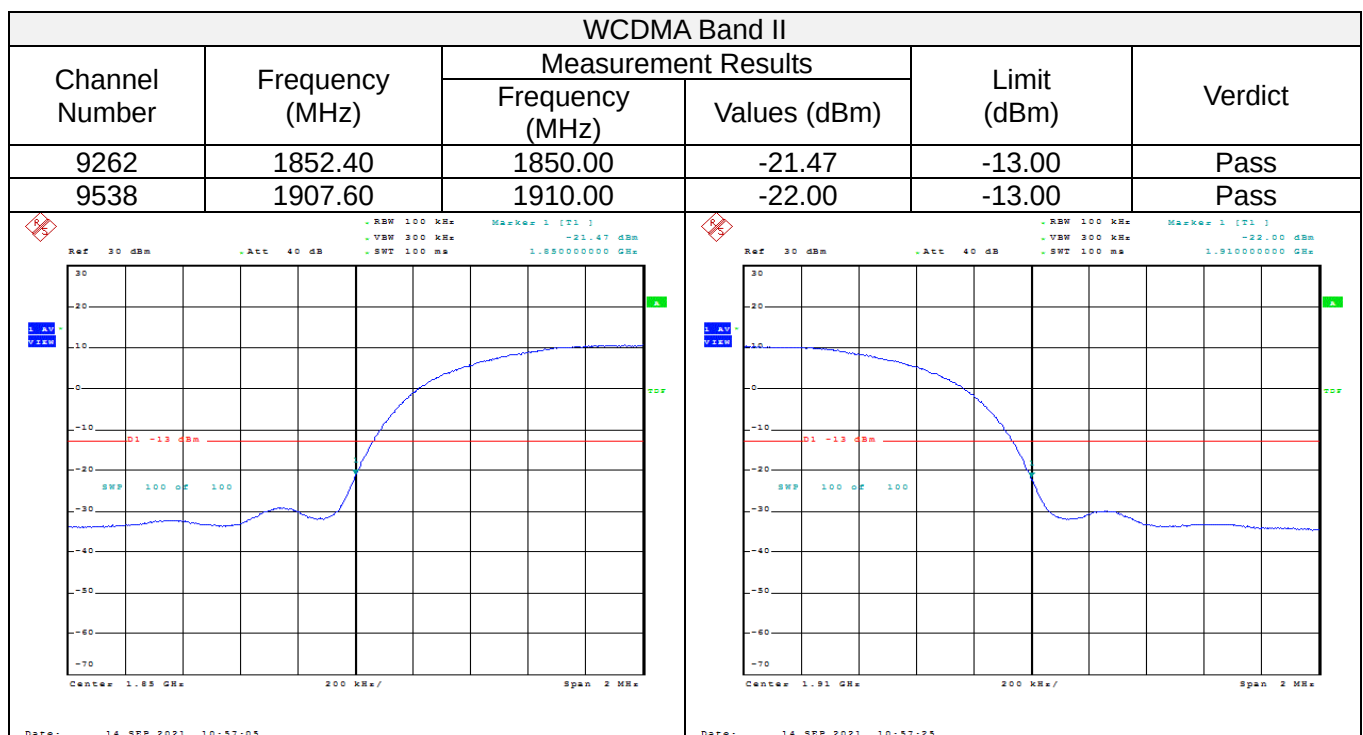
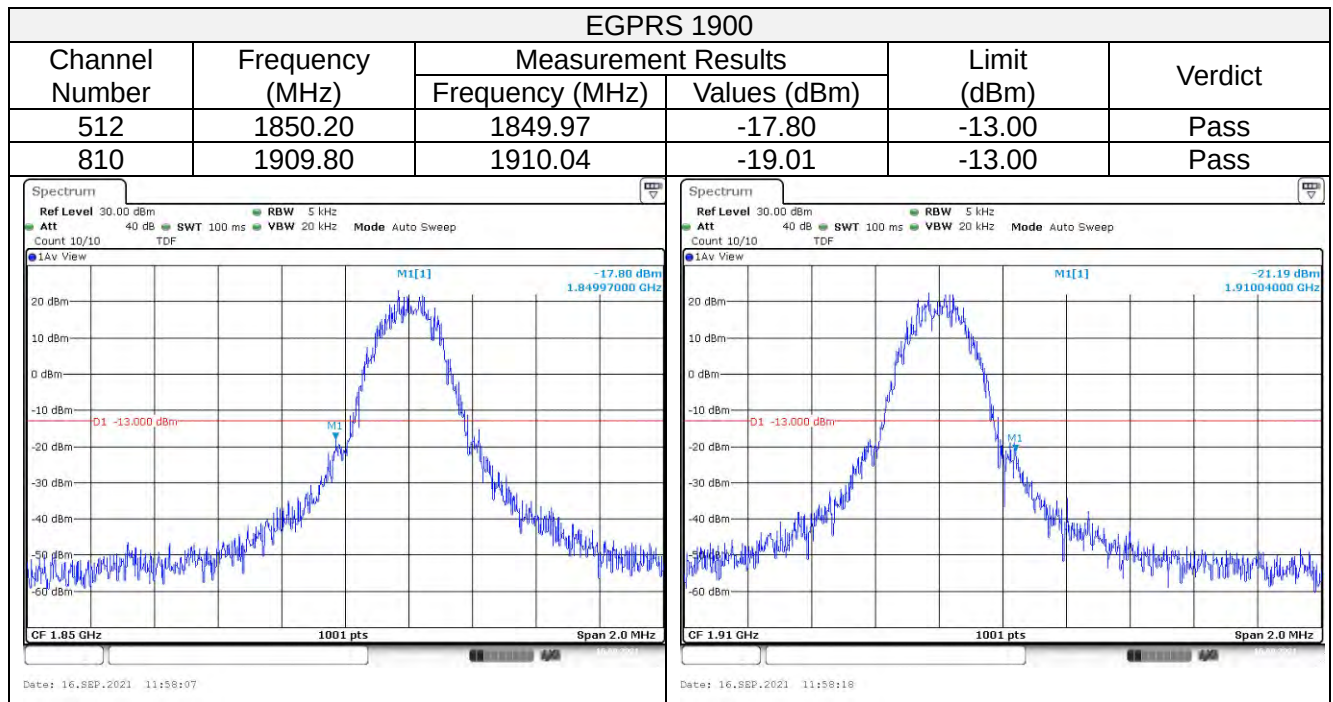
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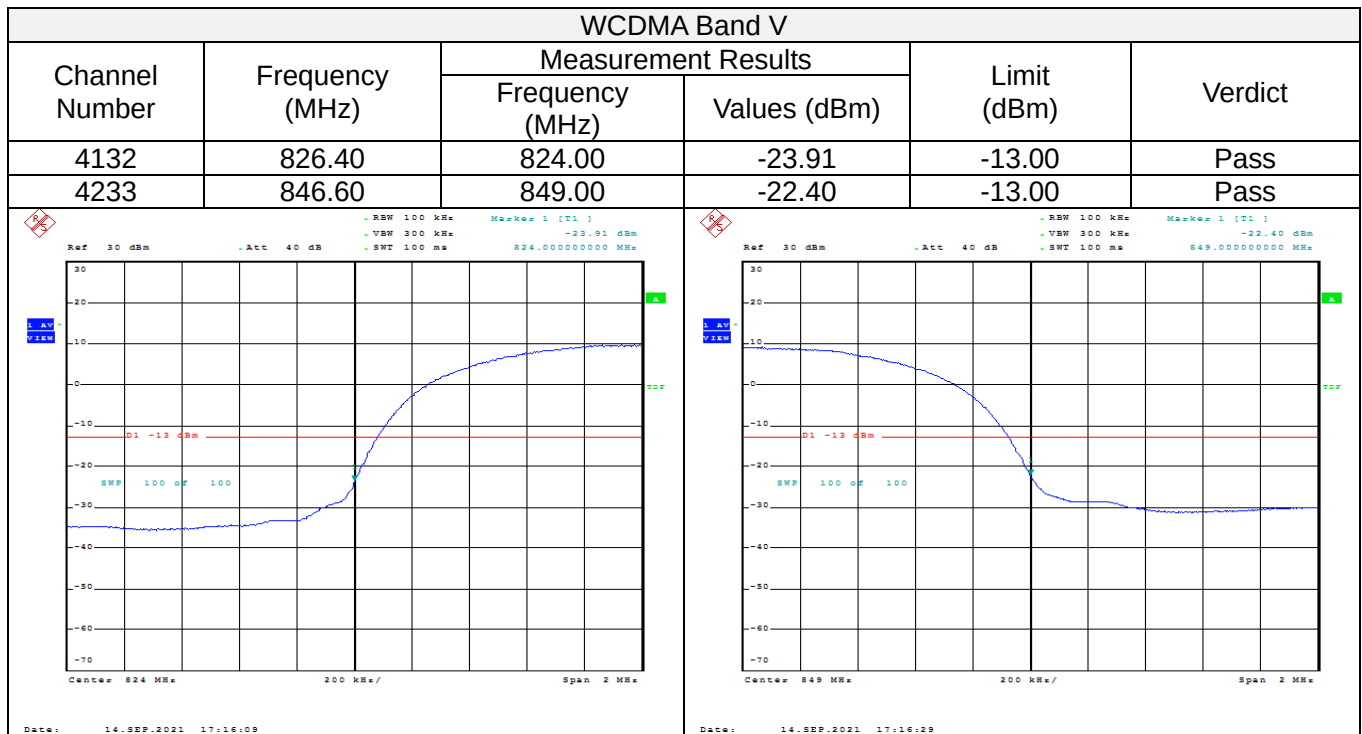
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3.6. Radiated Power Measurement

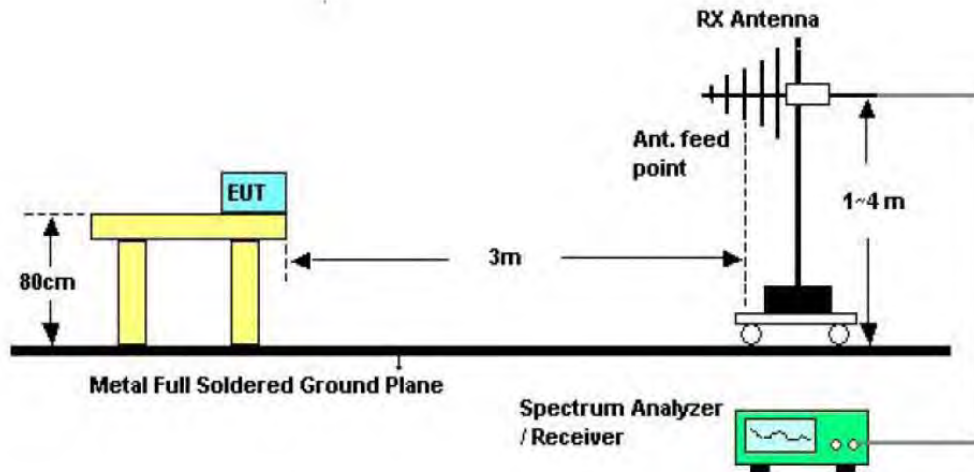
LIMIT

FCC: §2.1046, §22.913, §24.232, §27.50 and §90.635

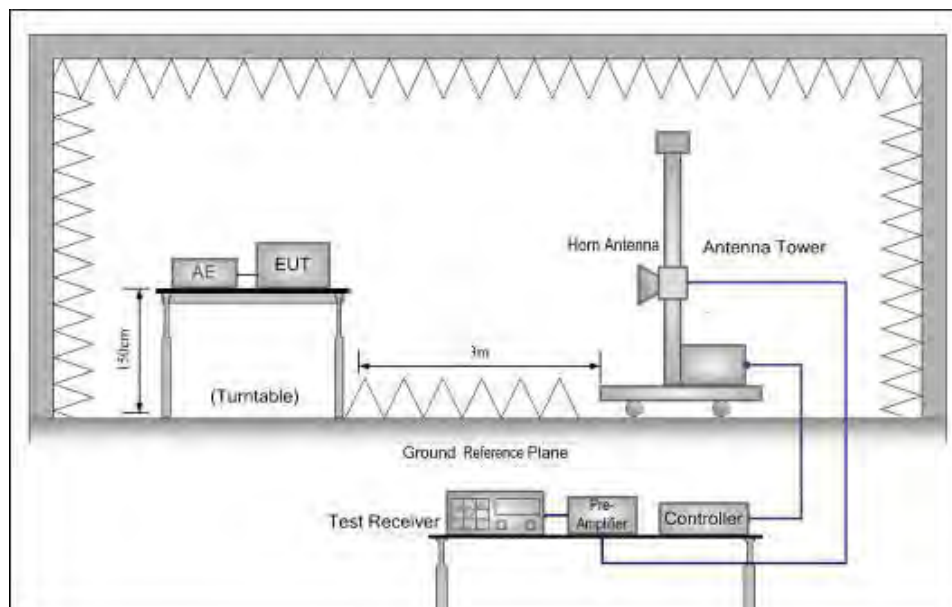
IC: RSS132§5.4; RSS133§6.4 and RSS139§6.5.

TEST CONFIGURATION

For the actual test configuration, please refer to the related Item – EUT Test Photos.



Below 1GHz



Above 1GHz



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
5. An amplifier should be connected to the Signal Source output port. And the cable should be connecting between the Amplifier and the Substitution Antenna. The cable loss (Pcl), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

We used N5182A microwave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

TEST RESULTS

Remark:

1. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, and test data recorded in this report.



Measurement Data (worst case) :

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
GSM850 (GSM)	128	V	33.75	38.45	Pass
		H	26.17		
	190	V	32.66		
		H	27.70		
	251	V	33.60		
		H	27.78		
GSM850 (GPRS)	128	V	32.48	38.45	Pass
		H	27.63		
	190	V	32.23		
		H	26.39		
	251	V	32.23		
		H	25.59		
GSM850 (EGPRS)	128	V	31.50	38.45	Pass
		H	27.30		
	190	V	31.70		
		H	25.83		
	251	V	32.26		
		H	25.51		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
PCS1900 (GSM)	512	V	30.10	33.00	Pass
		H	26.00		
	661	V	28.63		
		H	24.72		
	810	V	29.14		
		H	24.59		
PCS1900 (GPRS)	512	V	28.84	33.00	Pass
		H	25.94		
	661	V	29.30		
		H	24.26		
	810	V	29.33		
		H	25.77		
PCS1900 (EGPRS)	512	V	28.02	33.00	Pass
		H	24.51		
	661	V	28.97		
		H	25.92		
	810	V	28.61		
		H	25.46		

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Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
WCDMA Band II (QPSK)	9262	V	24.52	33.00	Pass
		H	22.05		
	9400	V	24.29		
		H	22.47		
	9538	V	24.35		
		H	21.67		

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
WCDMA Band V (QPSK)	4132	V	24.85	38.45	Pass
		H	21.91		
	4183	V	24.21		
		H	21.90		
	4233	V	24.22		
		H	22.39		

3.7. Radiated Spurious Emission

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (h), §90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

RSS132§5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS133§6.5

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

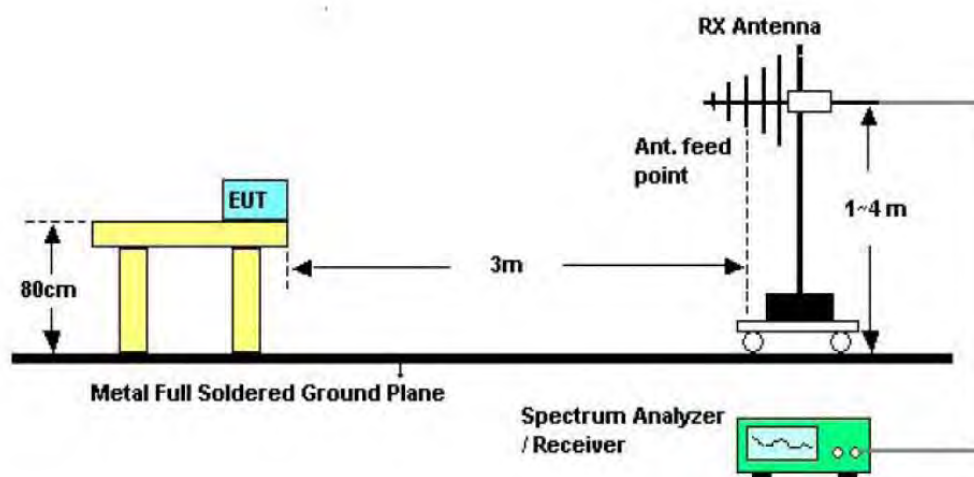
RSS139§6.6

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

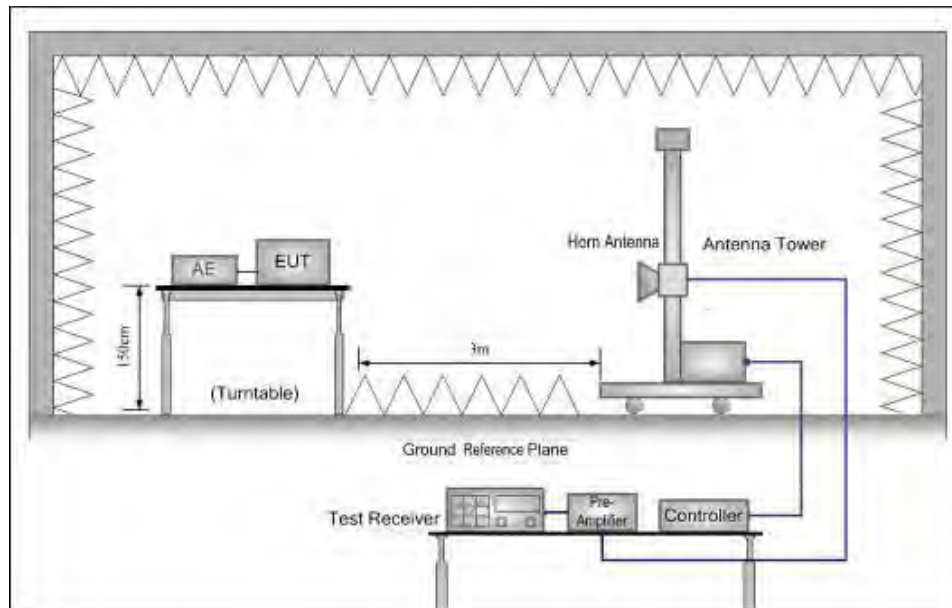
(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

TEST CONFIGURATION

For the actual test configuration, please refer to the related Item – EUT Test Photos.



Below 1GHz



Above 1GHz

TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
5. An amplifier should be connected to the Signal Source output port. And the cable should be connecting between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$

We used SMF100A microwave signal generator which signal level can up to 33dBm,so we not used

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power Amplifier for substitution test; The measurement results are amend as described below:

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

8. Test frequency range should extend to 10th harmonic of highest fundamental frequency.

TEST RESULTS

Remark:

1. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.

GSM 850					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
128	1648.80	Vertical	-44.55	-13.00	Pass
	2473.20	Vertical	-47.68		
	1648.80	Horizontal	-49.88		
	2473.20	Horizontal	-53.54		
190	1673.20	Vertical	-40.90		
	2509.80	Vertical	-47.55		
	1673.20	Horizontal	-41.75		
	2509.80	Horizontal	-50.23		
251	1697.60	Vertical	-37.16		
	2546.40	Vertical	-40.89		
	1697.60	Horizontal	-42.74		
	2546.40	Horizontal	-46.91		

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.



GPRS 850									
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result				
		Polarization	Level (dBm)						
128	1648.80	Vertical	-44.55	-13.00	Pass				
	2473.20	Vertical	-47.68						
	1648.80	Horizontal	-49.88						
	2473.20	Horizontal	-53.54						
190	1673.20	Vertical	-40.90			-13.00	Pass		
	2509.80	Vertical	-47.55						
	1673.20	Horizontal	-41.75						
	2509.80	Horizontal	-50.23						
251	1697.60	Vertical	-37.16					-13.00	Pass
	2546.40	Vertical	-40.89						
	1697.60	Horizontal	-42.74						
	2546.40	Horizontal	-46.91						

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

EGPRS 850									
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result				
		Polarization	Level (dBm)						
128	1648.80	Vertical	-42.98	-13.00	Pass				
	2473.20	Vertical	-49.40						
	1648.80	Horizontal	-45.64						
	2473.20	Horizontal	-51.21						
190	1673.20	Vertical	-42.98			-13.00	Pass		
	2509.80	Vertical	-47.14						
	1673.20	Horizontal	-42.35						
	2509.80	Horizontal	-53.21						
251	1697.60	Vertical	-36.89					-13.00	Pass
	2546.40	Vertical	-40.23						
	1697.60	Horizontal	-42.25						
	2546.40	Horizontal	-45.78						

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

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GSM 1900									
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result				
		Polarization	Level (dBm)						
512	3700.4	Vertical	-42.46	-13.00	Pass				
	5550.6	Vertical	-48.46						
	3700.4	Horizontal	-48.94						
	5550.6	Horizontal	-52.13						
661	3760.0	Vertical	-45.41			-13.00	Pass		
	5640.0	Vertical	-53.28						
	3760.0	Horizontal	-45.86						
	5640.0	Horizontal	-55.38						
810	3819.6	Vertical	-35.88					-13.00	Pass
	5729.4	Vertical	-45.09						
	3819.6	Horizontal	-46.04						
	5729.4	Horizontal	-54.35						

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

GPRS 1900							
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result		
		Polarization	Level (dBm)				
512	3700.40	Vertical	-43.65	-13.00	Pass		
	5550.60	Vertical	-46.24				
	3700.40	Horizontal	-49.69				
	5550.60	Horizontal	-53.00				
661	3760.00	Vertical	-40.41				
	5640.00	Vertical	-47.20				
	3760.00	Horizontal	-43.54				
	5640.00	Horizontal	-52.81				
810	3819.60	Vertical	-33.49				
	5729.40	Vertical	-44.63				
	3819.60	Horizontal	-42.05				
	5729.40	Horizontal	-46.79				

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

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EGPRS 1900					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
512	3700.40	Vertical	-44.56	-13.00	Pass
	5550.60	Vertical	-48.69		
	3700.40	Horizontal	-52.97		
	5550.60	Horizontal	-54.98		
661	3760.00	Vertical	-46.52		
	5640.00	Vertical	-53.65		
	3760.00	Horizontal	-45.96		
	5640.00	Horizontal	-52.83		
810	3819.60	Vertical	-39.47		
	5729.40	Vertical	-43.05		
	3819.60	Horizontal	-45.12		
	5729.40	Horizontal	-53.15		

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.



WCDMA Band II					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
9262	3705.20	Vertical	-41.23	-13.00	Pass
	5557.80	Vertical	-52.88		
	3705.20	Horizontal	-48.42		
	5557.80	Horizontal	-54.36		
9400	3760.00	Vertical	-43.92		
	5640.00	Vertical	-51.38		
	3760.00	Horizontal	-43.83		
	5640.00	Horizontal	-50.00		
9538	3814.80	Vertical	-40.57		
	5722.20	Vertical	-53.45		
	3814.80	Horizontal	-43.21		
	5722.20	Horizontal	-46.18		

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

WCDMA Band V					
Channel	Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
		Polarization	Level (dBm)		
4132	1653.20	Vertical	-42.22	-13.00	Pass
	2479.80	Vertical	-55.79		
	1653.20	Horizontal	-49.47		
	2479.80	Horizontal	-53.30		
4183	1672.80	Vertical	-51.34		
	2509.20	Vertical	-56.86		
	1672.80	Horizontal	-48.28		
	2509.20	Horizontal	-52.84		
4233	1692.80	Vertical	-50.64		
	2539.20	Vertical	-56.12		
	1692.80	Horizontal	-50.62		
	2539.20	Horizontal	-53.66		

Remark :

1. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.



3.8. Frequency stability

LIMIT

FCC §22.355, §90.213

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

FCC §24.235 & §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

RSS132§5.3

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 SRSP for mobile stations and ± 1.5 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the occupied bandwidth stays within each of the sub-bands (see Section 5.1) when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS133§6.3

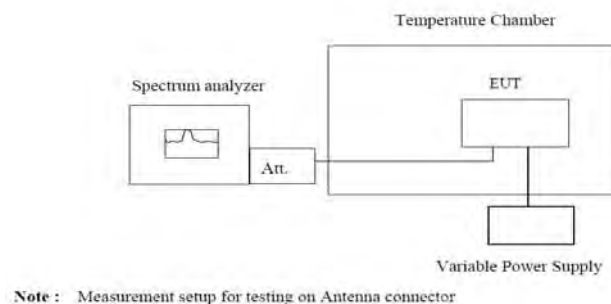
The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS139§6.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
3. The EUT was placed inside the temperature chamber.
4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for

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approximately 30 minutes recorded the frequency.

6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
7. Reduce the input voltage to specified extreme voltage variation (+/- 10%) and endpoint, record the maximum frequency change.

TEST RESULTS

Voltage								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	VL	NT	1.55	0.001881	±2.5	PASS
GSM850	128	3	VN	NT	0.39	0.000473	±2.5	PASS
GSM850	128	3	VH	NT	2.71	0.003288	±2.5	PASS
GSM850	190	3	VL	NT	0.90	0.001076	±2.5	PASS
GSM850	190	3	VN	NT	0.19	0.000227	±2.5	PASS
GSM850	190	3	VH	NT	7.30	0.008726	±2.5	PASS
GSM850	251	3	VL	NT	1.74	0.002050	±2.5	PASS
GSM850	251	3	VN	NT	2.81	0.003311	±2.5	PASS
GSM850	251	3	VH	NT	3.49	0.004112	±2.5	PASS
GPRS850	128	3	VL	NT	5.13	0.006224	±2.5	PASS
GPRS850	128	3	VN	NT	5.88	0.007134	±2.5	PASS
GPRS850	128	3	VH	NT	10.65	0.012922	±2.5	PASS
GPRS850	190	3	VL	NT	3.87	0.004626	±2.5	PASS
GPRS850	190	3	VN	NT	11.40	0.013627	±2.5	PASS
GPRS850	190	3	VH	NT	7.72	0.009228	±2.5	PASS
GPRS850	251	3	VL	NT	8.72	0.010273	±2.5	PASS
GPRS850	251	3	VN	NT	4.55	0.005361	±2.5	PASS
GPRS850	251	3	VH	NT	6.81	0.008023	±2.5	PASS
EGPRS850	128	8	VL	NT	3.07	0.003725	±2.5	PASS
EGPRS850	128	8	VN	NT	5.88	0.007134	±2.5	PASS
EGPRS850	128	8	VH	NT	6.52	0.007911	±2.5	PASS
EGPRS850	190	8	VL	NT	10.23	0.012228	±2.5	PASS
EGPRS850	190	8	VN	NT	14.79	0.017679	±2.5	PASS
EGPRS850	190	8	VH	NT	13.04	0.015587	±2.5	PASS
EGPRS850	251	8	VL	NT	5.62	0.006621	±2.5	PASS
EGPRS850	251	8	VN	NT	9.36	0.011027	±2.5	PASS
EGPRS850	251	8	VH	NT	2.84	0.003346	±2.5	PASS
GSM1900	512	0	VL	NT	10.85	0.005864	±2.5	PASS
GSM1900	512	0	VN	NT	-5.29	-0.002859	±2.5	PASS
GSM1900	512	0	VH	NT	11.75	0.006351	±2.5	PASS
GSM1900	661	0	VL	NT	6.84	0.003638	±2.5	PASS
GSM1900	661	0	VN	NT	4.07	0.002165	±2.5	PASS
GSM1900	661	0	VH	NT	5.55	0.002952	±2.5	PASS
GSM1900	810	0	VL	NT	-1.45	-0.000759	±2.5	PASS
GSM1900	810	0	VN	NT	1.90	0.000995	±2.5	PASS

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GSM1900	810	0	VH	NT	1.90	0.000995	±2.5	PASS
GPRS1900	512	0	VL	NT	-5.84	-0.003156	±2.5	PASS
GPRS1900	512	0	VN	NT	0.94	0.000508	±2.5	PASS
GPRS1900	512	0	VH	NT	9.04	0.004886	±2.5	PASS
GPRS1900	661	0	VL	NT	9.36	0.004979	±2.5	PASS
GPRS1900	661	0	VN	NT	19.24	0.010234	±2.5	PASS
GPRS1900	661	0	VH	NT	13.75	0.007314	±2.5	PASS
GPRS1900	810	0	VL	NT	4.55	0.002382	±2.5	PASS
GPRS1900	810	0	VN	NT	20.89	0.010938	±2.5	PASS
GPRS1900	810	0	VH	NT	7.72	0.004042	±2.5	PASS
EGPRS1900	512	2	VL	NT	-0.10	-0.000054	±2.5	PASS
EGPRS1900	512	2	VN	NT	6.62	0.003578	±2.5	PASS
EGPRS1900	512	2	VH	NT	2.23	0.001205	±2.5	PASS
EGPRS1900	661	2	VL	NT	1.00	0.000532	±2.5	PASS
EGPRS1900	661	2	VN	NT	4.91	0.002612	±2.5	PASS
EGPRS1900	661	2	VH	NT	6.01	0.003197	±2.5	PASS
EGPRS1900	810	2	VL	NT	-5.55	-0.002906	±2.5	PASS
EGPRS1900	810	2	VN	NT	7.75	0.004058	±2.5	PASS
EGPRS1900	810	2	VH	NT	-0.39	-0.000204	±2.5	PASS

Voltage								
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	1	VL	NT	-0.16	-0.000086	±2.5	PASS
Band2	9262	1	VN	NT	-1.89	-0.001020	±2.5	PASS
Band2	9262	1	VH	NT	-7.34	-0.003962	±2.5	PASS
Band2	9262	2	VL	NT	-1.07	-0.000578	±2.5	PASS
Band2	9262	2	VN	NT	-4.49	-0.002424	±2.5	PASS
Band2	9262	2	VH	NT	0.10	0.000054	±2.5	PASS
Band2	9262	3	VL	NT	0.34	0.000184	±2.5	PASS
Band2	9262	3	VN	NT	3.09	0.001668	±2.5	PASS
Band2	9262	3	VH	NT	-2.00	-0.001080	±2.5	PASS
Band2	9262	4	VL	NT	1.12	0.000605	±2.5	PASS
Band2	9262	4	VN	NT	-2.41	-0.001301	±2.5	PASS
Band2	9262	4	VH	NT	2.83	0.001528	±2.5	PASS
Band2	9400	1	VL	NT	-2.25	-0.001197	±2.5	PASS
Band2	9400	1	VN	NT	-2.28	-0.001213	±2.5	PASS
Band2	9400	1	VH	NT	1.00	0.000532	±2.5	PASS
Band2	9400	2	VL	NT	5.41	0.002878	±2.5	PASS
Band2	9400	2	VN	NT	0.54	0.000287	±2.5	PASS
Band2	9400	2	VH	NT	-2.80	-0.001489	±2.5	PASS
Band2	9400	3	VL	NT	7.35	0.003910	±2.5	PASS
Band2	9400	3	VN	NT	-0.11	-0.000059	±2.5	PASS
Band2	9400	3	VH	NT	0.64	0.000340	±2.5	PASS
Band2	9400	4	VL	NT	-6.68	-0.003553	±2.5	PASS

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Band2	9400	4	VN	NT	0.62	0.000330	±2.5	PASS
Band2	9400	4	VH	NT	2.30	0.001223	±2.5	PASS
Band2	9538	1	VL	NT	0.89	0.000467	±2.5	PASS
Band2	9538	1	VN	NT	-2.12	-0.001111	±2.5	PASS
Band2	9538	1	VH	NT	1.21	0.000634	±2.5	PASS
Band2	9538	2	VL	NT	-0.05	-0.000026	±2.5	PASS
Band2	9538	2	VN	NT	5.01	0.002626	±2.5	PASS
Band2	9538	2	VH	NT	-2.45	-0.001284	±2.5	PASS
Band2	9538	3	VL	NT	-3.15	-0.001651	±2.5	PASS
Band2	9538	3	VN	NT	5.17	0.002710	±2.5	PASS
Band2	9538	3	VH	NT	4.24	0.002223	±2.5	PASS
Band2	9538	4	VL	NT	1.60	0.000839	±2.5	PASS
Band2	9538	4	VN	NT	1.99	0.001043	±2.5	PASS
Band2	9538	4	VH	NT	-6.18	-0.003240	±2.5	PASS
Band5	4132	1	VL	NT	1.15	0.001392	±2.5	PASS
Band5	4132	1	VN	NT	1.16	0.001404	±2.5	PASS
Band5	4132	1	VH	NT	-1.08	-0.001307	±2.5	PASS
Band5	4132	2	VL	NT	-0.95	-0.001150	±2.5	PASS
Band5	4132	2	VN	NT	-0.99	-0.001198	±2.5	PASS
Band5	4132	2	VH	NT	-1.43	-0.001730	±2.5	PASS
Band5	4132	3	VL	NT	1.31	0.001585	±2.5	PASS
Band5	4132	3	VN	NT	1.18	0.001428	±2.5	PASS
Band5	4132	3	VH	NT	0.19	0.000230	±2.5	PASS
Band5	4132	4	VL	NT	0.91	0.001101	±2.5	PASS
Band5	4132	4	VN	NT	1.80	0.002178	±2.5	PASS
Band5	4132	4	VH	NT	-0.15	-0.000182	±2.5	PASS
Band5	4183	1	VL	NT	0.85	0.001016	±2.5	PASS
Band5	4183	1	VN	NT	-0.94	-0.001124	±2.5	PASS
Band5	4183	1	VH	NT	0.87	0.001040	±2.5	PASS
Band5	4183	2	VL	NT	-1.07	-0.001279	±2.5	PASS
Band5	4183	2	VN	NT	-0.14	-0.000167	±2.5	PASS
Band5	4183	2	VH	NT	0.73	0.000873	±2.5	PASS
Band5	4183	3	VL	NT	2.42	0.002893	±2.5	PASS
Band5	4183	3	VN	NT	-0.01	-0.000012	±2.5	PASS
Band5	4183	3	VH	NT	3.38	0.004040	±2.5	PASS
Band5	4183	4	VL	NT	2.52	0.003012	±2.5	PASS
Band5	4183	4	VN	NT	0.89	0.001064	±2.5	PASS
Band5	4183	4	VH	NT	5.63	0.006730	±2.5	PASS
Band5	4233	1	VL	NT	6.58	0.007772	±2.5	PASS
Band5	4233	1	VN	NT	-1.72	-0.002032	±2.5	PASS
Band5	4233	1	VH	NT	-1.57	-0.001854	±2.5	PASS
Band5	4233	2	VL	NT	-4.74	-0.005599	±2.5	PASS
Band5	4233	2	VN	NT	-0.67	-0.000791	±2.5	PASS
Band5	4233	2	VH	NT	-3.07	-0.003626	±2.5	PASS

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Band5	4233	3	VL	NT	0.34	0.000402	±2.5	PASS
Band5	4233	3	VN	NT	1.65	0.001949	±2.5	PASS
Band5	4233	3	VH	NT	-0.39	-0.000461	±2.5	PASS
Band5	4233	4	VL	NT	5.12	0.006048	±2.5	PASS
Band5	4233	4	VN	NT	-5.19	-0.006130	±2.5	PASS
Band5	4233	4	VH	NT	4.28	0.005056	±2.5	PASS

Temperature								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	NV	-30	3.45	0.004186	±2.5	PASS
GSM850	128	3	NV	-20	1.36	0.001650	±2.5	PASS
GSM850	128	3	NV	-10	0.71	0.000861	±2.5	PASS
GSM850	128	3	NV	0	2.65	0.003215	±2.5	PASS
GSM850	128	3	NV	10	2.49	0.003021	±2.5	PASS
GSM850	128	3	NV	20	2.03	0.002463	±2.5	PASS
GSM850	128	3	NV	30	2.03	0.002463	±2.5	PASS
GSM850	128	3	NV	40	2.94	0.003567	±2.5	PASS
GSM850	128	3	NV	50	5.46	0.006625	±2.5	PASS
GSM850	190	3	NV	-30	6.65	0.007949	±2.5	PASS
GSM850	190	3	NV	-20	4.91	0.005869	±2.5	PASS
GSM850	190	3	NV	-10	3.87	0.004626	±2.5	PASS
GSM850	190	3	NV	0	2.87	0.003431	±2.5	PASS
GSM850	190	3	NV	10	-3.29	-0.003933	±2.5	PASS
GSM850	190	3	NV	20	-0.61	-0.000729	±2.5	PASS
GSM850	190	3	NV	30	7.39	0.008833	±2.5	PASS
GSM850	190	3	NV	40	5.62	0.006718	±2.5	PASS
GSM850	190	3	NV	50	3.13	0.003741	±2.5	PASS
GSM850	251	3	NV	-30	1.39	0.001638	±2.5	PASS
GSM850	251	3	NV	-20	-0.29	-0.000342	±2.5	PASS
GSM850	251	3	NV	-10	1.00	0.001178	±2.5	PASS
GSM850	251	3	NV	0	0.61	0.000719	±2.5	PASS
GSM850	251	3	NV	10	1.97	0.002321	±2.5	PASS
GSM850	251	3	NV	20	1.61	0.001897	±2.5	PASS
GSM850	251	3	NV	30	1.65	0.001944	±2.5	PASS
GSM850	251	3	NV	40	-3.71	-0.004371	±2.5	PASS
GSM850	251	3	NV	50	7.65	0.009013	±2.5	PASS
GPRS850	128	3	NV	-30	5.68	0.006892	±2.5	PASS
GPRS850	128	3	NV	-20	1.97	0.002390	±2.5	PASS
GPRS850	128	3	NV	-10	0.42	0.000510	±2.5	PASS
GPRS850	128	3	NV	0	6.84	0.008299	±2.5	PASS
GPRS850	128	3	NV	10	1.87	0.002269	±2.5	PASS
GPRS850	128	3	NV	20	3.68	0.004465	±2.5	PASS
GPRS850	128	3	NV	30	4.68	0.005678	±2.5	PASS
GPRS850	128	3	NV	40	9.75	0.011830	±2.5	PASS

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GPRS850	128	3	NV	50	5.33	0.006467	±2.5	PASS
GPRS850	190	3	NV	-30	8.07	0.009646	±2.5	PASS
GPRS850	190	3	NV	-20	7.72	0.009228	±2.5	PASS
GPRS850	190	3	NV	-10	7.85	0.009383	±2.5	PASS
GPRS850	190	3	NV	0	9.78	0.011690	±2.5	PASS
GPRS850	190	3	NV	10	6.01	0.007184	±2.5	PASS
GPRS850	190	3	NV	20	10.53	0.012587	±2.5	PASS
GPRS850	190	3	NV	30	9.98	0.011929	±2.5	PASS
GPRS850	190	3	NV	40	12.01	0.014356	±2.5	PASS
GPRS850	190	3	NV	50	6.65	0.007949	±2.5	PASS
GPRS850	251	3	NV	-30	9.43	0.011110	±2.5	PASS
GPRS850	251	3	NV	-20	8.52	0.010038	±2.5	PASS
GPRS850	251	3	NV	-10	6.62	0.007799	±2.5	PASS
GPRS850	251	3	NV	0	5.97	0.007033	±2.5	PASS
GPRS850	251	3	NV	10	9.36	0.011027	±2.5	PASS
GPRS850	251	3	NV	20	8.27	0.009743	±2.5	PASS
GPRS850	251	3	NV	30	7.78	0.009166	±2.5	PASS
GPRS850	251	3	NV	40	8.17	0.009625	±2.5	PASS
GPRS850	251	3	NV	50	8.36	0.009849	±2.5	PASS
EGPRS850	128	8	NV	-30	6.10	0.007401	±2.5	PASS
EGPRS850	128	8	NV	-20	5.97	0.007243	±2.5	PASS
EGPRS850	128	8	NV	-10	6.33	0.007680	±2.5	PASS
EGPRS850	128	8	NV	0	0.55	0.000667	±2.5	PASS
EGPRS850	128	8	NV	10	7.65	0.009282	±2.5	PASS
EGPRS850	128	8	NV	20	0.90	0.001092	±2.5	PASS
EGPRS850	128	8	NV	30	6.84	0.008299	±2.5	PASS
EGPRS850	128	8	NV	40	3.00	0.003640	±2.5	PASS
EGPRS850	128	8	NV	50	7.55	0.009160	±2.5	PASS
EGPRS850	190	8	NV	-30	8.65	0.010339	±2.5	PASS
EGPRS850	190	8	NV	-20	5.46	0.006526	±2.5	PASS
EGPRS850	190	8	NV	-10	4.26	0.005092	±2.5	PASS
EGPRS850	190	8	NV	0	1.81	0.002164	±2.5	PASS
EGPRS850	190	8	NV	10	5.17	0.006180	±2.5	PASS
EGPRS850	190	8	NV	20	5.04	0.006024	±2.5	PASS
EGPRS850	190	8	NV	30	5.75	0.006873	±2.5	PASS
EGPRS850	190	8	NV	40	10.27	0.012276	±2.5	PASS
EGPRS850	190	8	NV	50	0.23	0.000275	±2.5	PASS
EGPRS850	251	8	NV	-30	8.27	0.009743	±2.5	PASS
EGPRS850	251	8	NV	-20	7.62	0.008977	±2.5	PASS
EGPRS850	251	8	NV	-10	6.01	0.007081	±2.5	PASS
EGPRS850	251	8	NV	0	7.26	0.008553	±2.5	PASS
EGPRS850	251	8	NV	10	7.07	0.008329	±2.5	PASS
EGPRS850	251	8	NV	20	5.62	0.006621	±2.5	PASS
EGPRS850	251	8	NV	30	10.11	0.011911	±2.5	PASS

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EGPRS850	251	8	NV	40	8.39	0.009885	±2.5	PASS
EGPRS850	251	8	NV	50	11.75	0.013843	±2.5	PASS
GSM1900	512	0	NV	-30	10.78	0.005826	±2.5	PASS
GSM1900	512	0	NV	-20	5.52	0.002983	±2.5	PASS
GSM1900	512	0	NV	-10	5.59	0.003021	±2.5	PASS
GSM1900	512	0	NV	0	6.39	0.003454	±2.5	PASS
GSM1900	512	0	NV	10	-0.97	-0.000524	±2.5	PASS
GSM1900	512	0	NV	20	-3.42	-0.001848	±2.5	PASS
GSM1900	512	0	NV	30	1.97	0.001065	±2.5	PASS
GSM1900	512	0	NV	40	-4.55	-0.002459	±2.5	PASS
GSM1900	512	0	NV	50	3.36	0.001816	±2.5	PASS
GSM1900	661	0	NV	-30	3.39	0.001803	±2.5	PASS
GSM1900	661	0	NV	-20	-11.53	-0.006133	±2.5	PASS
GSM1900	661	0	NV	-10	5.07	0.002697	±2.5	PASS
GSM1900	661	0	NV	0	0.39	0.000207	±2.5	PASS
GSM1900	661	0	NV	10	2.78	0.001479	±2.5	PASS
GSM1900	661	0	NV	20	2.45	0.001303	±2.5	PASS
GSM1900	661	0	NV	30	0.94	0.000500	±2.5	PASS
GSM1900	661	0	NV	40	-0.81	-0.000431	±2.5	PASS
GSM1900	661	0	NV	50	-4.26	-0.002266	±2.5	PASS
GSM1900	810	0	NV	-30	0.29	0.000152	±2.5	PASS
GSM1900	810	0	NV	-20	-1.42	-0.000744	±2.5	PASS
GSM1900	810	0	NV	-10	-0.42	-0.000220	±2.5	PASS
GSM1900	810	0	NV	0	-1.16	-0.000607	±2.5	PASS
GSM1900	810	0	NV	10	-1.07	-0.000560	±2.5	PASS
GSM1900	810	0	NV	20	-0.19	-0.000099	±2.5	PASS
GSM1900	810	0	NV	30	-0.26	-0.000136	±2.5	PASS
GSM1900	810	0	NV	40	1.74	0.000911	±2.5	PASS
GSM1900	810	0	NV	50	5.20	0.002723	±2.5	PASS
GPRS1900	512	0	NV	-30	9.59	0.005183	±2.5	PASS
GPRS1900	512	0	NV	-20	13.37	0.007226	±2.5	PASS
GPRS1900	512	0	NV	-10	8.75	0.004729	±2.5	PASS
GPRS1900	512	0	NV	0	14.30	0.007729	±2.5	PASS
GPRS1900	512	0	NV	10	17.53	0.009475	±2.5	PASS
GPRS1900	512	0	NV	20	12.56	0.006788	±2.5	PASS
GPRS1900	512	0	NV	30	14.37	0.007767	±2.5	PASS
GPRS1900	512	0	NV	40	-6.49	-0.003508	±2.5	PASS
GPRS1900	512	0	NV	50	4.26	0.002302	±2.5	PASS
GPRS1900	661	0	NV	-30	9.72	0.005170	±2.5	PASS
GPRS1900	661	0	NV	-20	5.20	0.002766	±2.5	PASS
GPRS1900	661	0	NV	-10	14.01	0.007452	±2.5	PASS
GPRS1900	661	0	NV	0	3.03	0.001612	±2.5	PASS
GPRS1900	661	0	NV	10	3.84	0.002043	±2.5	PASS
GPRS1900	661	0	NV	20	4.97	0.002644	±2.5	PASS

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GPRS1900	661	0	NV	30	4.39	0.002335	±2.5	PASS
GPRS1900	661	0	NV	40	1.74	0.000926	±2.5	PASS
GPRS1900	661	0	NV	50	7.72	0.004106	±2.5	PASS
GPRS1900	810	0	NV	-30	2.23	0.001168	±2.5	PASS
GPRS1900	810	0	NV	-20	11.30	0.005917	±2.5	PASS
GPRS1900	810	0	NV	-10	11.30	0.005917	±2.5	PASS
GPRS1900	810	0	NV	0	9.20	0.004817	±2.5	PASS
GPRS1900	810	0	NV	10	7.30	0.003822	±2.5	PASS
GPRS1900	810	0	NV	20	-11.78	-0.006168	±2.5	PASS
GPRS1900	810	0	NV	30	-5.26	-0.002754	±2.5	PASS
GPRS1900	810	0	NV	40	3.00	0.001571	±2.5	PASS
GPRS1900	810	0	NV	50	-0.36	-0.000189	±2.5	PASS
EGPRS1900	512	2	NV	-30	9.43	0.005097	±2.5	PASS
EGPRS1900	512	2	NV	-20	-6.55	-0.003540	±2.5	PASS
EGPRS1900	512	2	NV	-10	-3.10	-0.001675	±2.5	PASS
EGPRS1900	512	2	NV	0	6.13	0.003313	±2.5	PASS
EGPRS1900	512	2	NV	10	0.42	0.000227	±2.5	PASS
EGPRS1900	512	2	NV	20	-6.62	-0.003578	±2.5	PASS
EGPRS1900	512	2	NV	30	-3.94	-0.002129	±2.5	PASS
EGPRS1900	512	2	NV	40	-7.62	-0.004118	±2.5	PASS
EGPRS1900	512	2	NV	50	8.14	0.004400	±2.5	PASS
EGPRS1900	661	2	NV	-30	7.78	0.004138	±2.5	PASS
EGPRS1900	661	2	NV	-20	-7.62	-0.004053	±2.5	PASS
EGPRS1900	661	2	NV	-10	-0.42	-0.000223	±2.5	PASS
EGPRS1900	661	2	NV	0	-8.39	-0.004463	±2.5	PASS
EGPRS1900	661	2	NV	10	5.97	0.003176	±2.5	PASS
EGPRS1900	661	2	NV	20	1.71	0.000910	±2.5	PASS
EGPRS1900	661	2	NV	30	-3.68	-0.001957	±2.5	PASS
EGPRS1900	661	2	NV	40	3.91	0.002080	±2.5	PASS
EGPRS1900	661	2	NV	50	13.04	0.006936	±2.5	PASS
EGPRS1900	810	2	NV	-30	-0.55	-0.000288	±2.5	PASS
EGPRS1900	810	2	NV	-20	6.68	0.003498	±2.5	PASS
EGPRS1900	810	2	NV	-10	4.75	0.002487	±2.5	PASS
EGPRS1900	810	2	NV	0	7.72	0.004042	±2.5	PASS
EGPRS1900	810	2	NV	10	3.75	0.001964	±2.5	PASS
EGPRS1900	810	2	NV	20	-8.10	-0.004241	±2.5	PASS
EGPRS1900	810	2	NV	30	-7.52	-0.003938	±2.5	PASS
EGPRS1900	810	2	NV	40	-2.84	-0.001487	±2.5	PASS
EGPRS1900	810	2	NV	50	-1.97	-0.001032	±2.5	PASS



Temperature								
Band	Channel	SubTest	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	1	NV	-30	6.57	0.003547	±2.5	PASS
Band2	9262	1	NV	-20	-2.05	-0.001107	±2.5	PASS
Band2	9262	1	NV	-10	-3.51	-0.001895	±2.5	PASS
Band2	9262	1	NV	0	4.55	0.002456	±2.5	PASS
Band2	9262	1	NV	10	4.68	0.002526	±2.5	PASS
Band2	9262	1	NV	20	-3.93	-0.002122	±2.5	PASS
Band2	9262	1	NV	30	0.42	0.000227	±2.5	PASS
Band2	9262	1	NV	40	-2.05	-0.001107	±2.5	PASS
Band2	9262	1	NV	50	4.27	0.002305	±2.5	PASS
Band2	9262	2	NV	-30	3.03	0.001636	±2.5	PASS
Band2	9262	2	NV	-20	5.58	0.003012	±2.5	PASS
Band2	9262	2	NV	-10	-0.78	-0.000421	±2.5	PASS
Band2	9262	2	NV	0	3.45	0.001862	±2.5	PASS
Band2	9262	2	NV	10	-7.40	-0.003995	±2.5	PASS
Band2	9262	2	NV	20	4.69	0.002532	±2.5	PASS
Band2	9262	2	NV	30	-2.65	-0.001431	±2.5	PASS
Band2	9262	2	NV	40	3.11	0.001679	±2.5	PASS
Band2	9262	2	NV	50	-2.00	-0.001080	±2.5	PASS
Band2	9262	3	NV	-30	-0.44	-0.000238	±2.5	PASS
Band2	9262	3	NV	-20	-1.72	-0.000929	±2.5	PASS
Band2	9262	3	NV	-10	-4.61	-0.002489	±2.5	PASS
Band2	9262	3	NV	0	3.05	0.001647	±2.5	PASS
Band2	9262	3	NV	10	2.42	0.001306	±2.5	PASS
Band2	9262	3	NV	20	-4.57	-0.002467	±2.5	PASS
Band2	9262	3	NV	30	5.97	0.003223	±2.5	PASS
Band2	9262	3	NV	40	6.83	0.003687	±2.5	PASS
Band2	9262	3	NV	50	-3.74	-0.002019	±2.5	PASS
Band2	9262	4	NV	-30	0.00	0.000000	±2.5	PASS
Band2	9262	4	NV	-20	0.71	0.000383	±2.5	PASS
Band2	9262	4	NV	-10	-1.95	-0.001053	±2.5	PASS
Band2	9262	4	NV	0	1.39	0.000750	±2.5	PASS
Band2	9262	4	NV	10	-0.37	-0.000200	±2.5	PASS
Band2	9262	4	NV	20	7.32	0.003952	±2.5	PASS
Band2	9262	4	NV	30	6.04	0.003261	±2.5	PASS
Band2	9262	4	NV	40	-0.19	-0.000103	±2.5	PASS
Band2	9262	4	NV	50	-0.59	-0.000319	±2.5	PASS
Band2	9400	1	NV	-30	7.39	0.003931	±2.5	PASS
Band2	9400	1	NV	-20	3.64	0.001936	±2.5	PASS
Band2	9400	1	NV	-10	3.08	0.001638	±2.5	PASS
Band2	9400	1	NV	0	0.83	0.000441	±2.5	PASS
Band2	9400	1	NV	10	1.98	0.001053	±2.5	PASS

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Band2	9400	1	NV	20	-1.38	-0.000734	±2.5	PASS
Band2	9400	1	NV	30	-1.32	-0.000702	±2.5	PASS
Band2	9400	1	NV	40	2.45	0.001303	±2.5	PASS
Band2	9400	1	NV	50	-3.76	-0.002000	±2.5	PASS
Band2	9400	2	NV	-30	0.45	0.000239	±2.5	PASS
Band2	9400	2	NV	-20	-1.13	-0.000601	±2.5	PASS
Band2	9400	2	NV	-10	-3.65	-0.001941	±2.5	PASS
Band2	9400	2	NV	0	0.01	0.000005	±2.5	PASS
Band2	9400	2	NV	10	0.53	0.000282	±2.5	PASS
Band2	9400	2	NV	20	-4.50	-0.002394	±2.5	PASS
Band2	9400	2	NV	30	1.90	0.001011	±2.5	PASS
Band2	9400	2	NV	40	-2.91	-0.001548	±2.5	PASS
Band2	9400	2	NV	50	1.65	0.000878	±2.5	PASS
Band2	9400	3	NV	-30	1.30	0.000691	±2.5	PASS
Band2	9400	3	NV	-20	-0.63	-0.000335	±2.5	PASS
Band2	9400	3	NV	-10	-7.47	-0.003973	±2.5	PASS
Band2	9400	3	NV	0	1.11	0.000590	±2.5	PASS
Band2	9400	3	NV	10	-3.33	-0.001771	±2.5	PASS
Band2	9400	3	NV	20	-4.12	-0.002191	±2.5	PASS
Band2	9400	3	NV	30	-2.75	-0.001463	±2.5	PASS
Band2	9400	3	NV	40	-1.69	-0.000899	±2.5	PASS
Band2	9400	3	NV	50	-4.81	-0.002559	±2.5	PASS
Band2	9400	4	NV	-30	-3.00	-0.001596	±2.5	PASS
Band2	9400	4	NV	-20	3.22	0.001713	±2.5	PASS
Band2	9400	4	NV	-10	-5.48	-0.002915	±2.5	PASS
Band2	9400	4	NV	0	-2.83	-0.001505	±2.5	PASS
Band2	9400	4	NV	10	-4.62	-0.002457	±2.5	PASS
Band2	9400	4	NV	20	2.99	0.001590	±2.5	PASS
Band2	9400	4	NV	30	-4.18	-0.002223	±2.5	PASS
Band2	9400	4	NV	40	-4.34	-0.002309	±2.5	PASS
Band2	9400	4	NV	50	-3.10	-0.001649	±2.5	PASS
Band2	9538	1	NV	-30	1.19	0.000624	±2.5	PASS
Band2	9538	1	NV	-20	-0.19	-0.000100	±2.5	PASS
Band2	9538	1	NV	-10	3.48	0.001824	±2.5	PASS
Band2	9538	1	NV	0	3.13	0.001641	±2.5	PASS
Band2	9538	1	NV	10	1.09	0.000571	±2.5	PASS
Band2	9538	1	NV	20	-1.54	-0.000807	±2.5	PASS
Band2	9538	1	NV	30	3.86	0.002023	±2.5	PASS
Band2	9538	1	NV	40	0.53	0.000278	±2.5	PASS
Band2	9538	1	NV	50	6.87	0.003601	±2.5	PASS
Band2	9538	2	NV	-30	-3.08	-0.001615	±2.5	PASS
Band2	9538	2	NV	-20	-3.10	-0.001625	±2.5	PASS
Band2	9538	2	NV	-10	-2.58	-0.001352	±2.5	PASS
Band2	9538	2	NV	0	-4.53	-0.002375	±2.5	PASS

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Band2	9538	2	NV	10	-0.98	-0.000514	±2.5	PASS
Band2	9538	2	NV	20	-1.26	-0.000661	±2.5	PASS
Band2	9538	2	NV	30	-3.67	-0.001924	±2.5	PASS
Band2	9538	2	NV	40	-4.39	-0.002301	±2.5	PASS
Band2	9538	2	NV	50	-4.11	-0.002155	±2.5	PASS
Band2	9538	3	NV	-30	8.50	0.004456	±2.5	PASS
Band2	9538	3	NV	-20	-0.09	-0.000047	±2.5	PASS
Band2	9538	3	NV	-10	-0.03	-0.000016	±2.5	PASS
Band2	9538	3	NV	0	-4.97	-0.002605	±2.5	PASS
Band2	9538	3	NV	10	2.11	0.001106	±2.5	PASS
Band2	9538	3	NV	20	-3.14	-0.001646	±2.5	PASS
Band2	9538	3	NV	30	-3.54	-0.001856	±2.5	PASS
Band2	9538	3	NV	40	0.87	0.000456	±2.5	PASS
Band2	9538	3	NV	50	8.38	0.004393	±2.5	PASS
Band2	9538	4	NV	-30	7.55	0.003958	±2.5	PASS
Band2	9538	4	NV	-20	-5.27	-0.002763	±2.5	PASS
Band2	9538	4	NV	-10	-3.82	-0.002003	±2.5	PASS
Band2	9538	4	NV	0	-1.72	-0.000902	±2.5	PASS
Band2	9538	4	NV	10	4.65	0.002438	±2.5	PASS
Band2	9538	4	NV	20	4.45	0.002333	±2.5	PASS
Band2	9538	4	NV	30	3.39	0.001777	±2.5	PASS
Band2	9538	4	NV	40	2.98	0.001562	±2.5	PASS
Band2	9538	4	NV	50	0.39	0.000204	±2.5	PASS
Band5	4132	1	NV	-30	-0.66	-0.000799	±2.5	PASS
Band5	4132	1	NV	-20	-0.14	-0.000169	±2.5	PASS
Band5	4132	1	NV	-10	1.58	0.001912	±2.5	PASS
Band5	4132	1	NV	0	-1.24	-0.001500	±2.5	PASS
Band5	4132	1	NV	10	1.56	0.001888	±2.5	PASS
Band5	4132	1	NV	20	0.41	0.000496	±2.5	PASS
Band5	4132	1	NV	30	-0.86	-0.001041	±2.5	PASS
Band5	4132	1	NV	40	-0.59	-0.000714	±2.5	PASS
Band5	4132	1	NV	50	-0.68	-0.000823	±2.5	PASS
Band5	4132	2	NV	-30	-1.02	-0.001234	±2.5	PASS
Band5	4132	2	NV	-20	-0.04	-0.000048	±2.5	PASS
Band5	4132	2	NV	-10	-0.86	-0.001041	±2.5	PASS
Band5	4132	2	NV	0	-0.25	-0.000303	±2.5	PASS
Band5	4132	2	NV	10	-1.64	-0.001985	±2.5	PASS
Band5	4132	2	NV	20	1.02	0.001234	±2.5	PASS
Band5	4132	2	NV	30	-1.39	-0.001682	±2.5	PASS
Band5	4132	2	NV	40	1.09	0.001319	±2.5	PASS
Band5	4132	2	NV	50	0.68	0.000823	±2.5	PASS
Band5	4132	3	NV	-30	0.54	0.000653	±2.5	PASS
Band5	4132	3	NV	-20	-0.59	-0.000714	±2.5	PASS
Band5	4132	3	NV	-10	-1.56	-0.001888	±2.5	PASS

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Band5	4132	3	NV	0	-0.29	-0.000351	±2.5	PASS
Band5	4132	3	NV	10	-0.56	-0.000678	±2.5	PASS
Band5	4132	3	NV	20	2.00	0.002420	±2.5	PASS
Band5	4132	3	NV	30	1.91	0.002311	±2.5	PASS
Band5	4132	3	NV	40	1.41	0.001706	±2.5	PASS
Band5	4132	3	NV	50	1.06	0.001283	±2.5	PASS
Band5	4132	4	NV	-30	1.24	0.001500	±2.5	PASS
Band5	4132	4	NV	-20	0.44	0.000532	±2.5	PASS
Band5	4132	4	NV	-10	0.99	0.001198	±2.5	PASS
Band5	4132	4	NV	0	0.97	0.001174	±2.5	PASS
Band5	4132	4	NV	10	-0.64	-0.000774	±2.5	PASS
Band5	4132	4	NV	20	-1.88	-0.002275	±2.5	PASS
Band5	4132	4	NV	30	-1.99	-0.002408	±2.5	PASS
Band5	4132	4	NV	40	1.92	0.002323	±2.5	PASS
Band5	4132	4	NV	50	-0.06	-0.000073	±2.5	PASS
Band5	4183	1	NV	-30	-0.64	-0.000765	±2.5	PASS
Band5	4183	1	NV	-20	-0.64	-0.000765	±2.5	PASS
Band5	4183	1	NV	-10	-0.93	-0.001112	±2.5	PASS
Band5	4183	1	NV	0	-0.70	-0.000837	±2.5	PASS
Band5	4183	1	NV	10	0.60	0.000717	±2.5	PASS
Band5	4183	1	NV	20	1.31	0.001566	±2.5	PASS
Band5	4183	1	NV	30	-1.32	-0.001578	±2.5	PASS
Band5	4183	1	NV	40	-0.93	-0.001112	±2.5	PASS
Band5	4183	1	NV	50	-1.70	-0.002032	±2.5	PASS
Band5	4183	2	NV	-30	0.95	0.001136	±2.5	PASS
Band5	4183	2	NV	-20	2.40	0.002869	±2.5	PASS
Band5	4183	2	NV	-10	1.67	0.001996	±2.5	PASS
Band5	4183	2	NV	0	3.15	0.003765	±2.5	PASS
Band5	4183	2	NV	10	3.94	0.004710	±2.5	PASS
Band5	4183	2	NV	20	3.57	0.004267	±2.5	PASS
Band5	4183	2	NV	30	1.78	0.002128	±2.5	PASS
Band5	4183	2	NV	40	4.26	0.005092	±2.5	PASS
Band5	4183	2	NV	50	0.40	0.000478	±2.5	PASS
Band5	4183	3	NV	-30	-0.41	-0.000490	±2.5	PASS
Band5	4183	3	NV	-20	6.08	0.007268	±2.5	PASS
Band5	4183	3	NV	-10	6.24	0.007459	±2.5	PASS
Band5	4183	3	NV	0	4.10	0.004901	±2.5	PASS
Band5	4183	3	NV	10	-3.71	-0.004435	±2.5	PASS
Band5	4183	3	NV	20	-4.53	-0.005415	±2.5	PASS
Band5	4183	3	NV	30	-0.11	-0.000131	±2.5	PASS
Band5	4183	3	NV	40	-2.82	-0.003371	±2.5	PASS
Band5	4183	3	NV	50	4.07	0.004865	±2.5	PASS
Band5	4183	4	NV	-30	3.28	0.003921	±2.5	PASS
Band5	4183	4	NV	-20	-4.16	-0.004973	±2.5	PASS

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Band5	4183	4	NV	-10	-4.85	-0.005797	±2.5	PASS
Band5	4183	4	NV	0	0.24	0.000287	±2.5	PASS
Band5	4183	4	NV	10	-4.06	-0.004853	±2.5	PASS
Band5	4183	4	NV	20	-3.07	-0.003670	±2.5	PASS
Band5	4183	4	NV	30	-3.89	-0.004650	±2.5	PASS
Band5	4183	4	NV	40	2.71	0.003239	±2.5	PASS
Band5	4183	4	NV	50	-2.18	-0.002606	±2.5	PASS
Band5	4233	1	NV	-30	-4.29	-0.005067	±2.5	PASS
Band5	4233	1	NV	-20	2.91	0.003437	±2.5	PASS
Band5	4233	1	NV	-10	-1.36	-0.001606	±2.5	PASS
Band5	4233	1	NV	0	1.74	0.002055	±2.5	PASS
Band5	4233	1	NV	10	0.34	0.000402	±2.5	PASS
Band5	4233	1	NV	20	-3.88	-0.004583	±2.5	PASS
Band5	4233	1	NV	30	-1.09	-0.001288	±2.5	PASS
Band5	4233	1	NV	40	-3.50	-0.004134	±2.5	PASS
Band5	4233	1	NV	50	3.61	0.004264	±2.5	PASS
Band5	4233	2	NV	-30	-0.98	-0.001158	±2.5	PASS
Band5	4233	2	NV	-20	-1.62	-0.001914	±2.5	PASS
Band5	4233	2	NV	-10	-3.76	-0.004441	±2.5	PASS
Band5	4233	2	NV	0	-0.16	-0.000189	±2.5	PASS
Band5	4233	2	NV	10	8.19	0.009674	±2.5	PASS
Band5	4233	2	NV	20	-7.30	-0.008623	±2.5	PASS
Band5	4233	2	NV	30	3.31	0.003910	±2.5	PASS
Band5	4233	2	NV	40	5.30	0.006260	±2.5	PASS
Band5	4233	2	NV	50	-3.93	-0.004642	±2.5	PASS
Band5	4233	3	NV	-30	-0.11	-0.000130	±2.5	PASS
Band5	4233	3	NV	-20	-1.02	-0.001205	±2.5	PASS
Band5	4233	3	NV	-10	0.03	0.000035	±2.5	PASS
Band5	4233	3	NV	0	0.95	0.001122	±2.5	PASS
Band5	4233	3	NV	10	3.10	0.003662	±2.5	PASS
Band5	4233	3	NV	20	4.32	0.005103	±2.5	PASS
Band5	4233	3	NV	30	-0.95	-0.001122	±2.5	PASS
Band5	4233	3	NV	40	-2.68	-0.003166	±2.5	PASS
Band5	4233	3	NV	50	-4.88	-0.005764	±2.5	PASS
Band5	4233	4	NV	-30	-0.19	-0.000224	±2.5	PASS
Band5	4233	4	NV	-20	-2.45	-0.002894	±2.5	PASS
Band5	4233	4	NV	-10	-0.92	-0.001087	±2.5	PASS
Band5	4233	4	NV	0	1.19	0.001406	±2.5	PASS
Band5	4233	4	NV	10	-0.54	-0.000638	±2.5	PASS
Band5	4233	4	NV	20	1.96	0.002315	±2.5	PASS
Band5	4233	4	NV	30	2.95	0.003485	±2.5	PASS
Band5	4233	4	NV	40	1.71	0.002020	±2.5	PASS
Band5	4233	4	NV	50	-1.81	-0.002138	±2.5	PASS

*****THE END*****

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