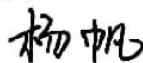


Industrial Internet Innovation Center (Shanghai) Co.,Ltd.**RF TEST REPORT**

PRODUCT	Smart POS system
BRAND	SUNMI
MODEL	T6F10
APPLICANT	Shanghai Sunmi Technology Co.,Ltd.
FCC ID	2AH25T6F10
ISSUE DATE	January 26, 2024
STANDARD(S)	FCC Part 2, FCC Part 22H, FCC Part 24E

Prepared by: *Rui Wu*Reviewed by: *Fan Yang*Approved by: *Min Zhang***CAUTION:**

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1. Summary of Test Report

1.1 Test Standard (s)

No.	Test Standard	Title	Version
1	FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	--
2	FCC Part 22H	CELLULAR RADIOTELEPHONE SERVICE	--
3	FCC Part 24E	BROADBAND PCS	--
Note: FCC Part 2 have not been accredited by A2LA.			

1.2 Reference Documents

No.	Test Standard	Title	Version
1	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
2	ANSI C63.26	American National Standard of Procedures for Compliance Testing of Licensed Transmitters Used in Licensed Radio	2015
3	KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v03r01
Note: KDB 971168 D01 have not been accredited by A2LA.			

1.3 Summary of Test Results

GSM850

Measurement Items	Sub-clause of FCC	Verdict
Output Power/ERP	2.1046/22.913(a)	Pass
Peak-to-Average Ratio	N/A	Pass
99%Occupied Bandwidth	2.1049	Pass
26dB Emission Bandwidth	2.1049	Pass
Band Edge at antenna terminals	2.1051/22.917(a)	Pass
Frequency stability	22.355	Pass
Conducted Spurious mission	2.1051/22.917(a)	Pass
Emission Limit	2.1053/22.917(a)	Pass

PCS1900

Measurement Items	Sub-clause of FCC	Verdict
Output Power/EIRP	2.1046,24.232(c)	Pass
Peak-to-Average Ratio	24.232(d)	Pass
99%Occupied Bandwidth	2.1049	Pass
26dB Emission Bandwidth	2.1049	Pass
Band Edge at antenna terminals	2.1051/24.238(a)	Pass
Frequency stability	24.235	Pass
Conducted Spurious mission	2.1051/24.238(a)	Pass
Emission Limit	2.1053/24.238(a)	Pass

Note:

The T6F10, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a new product for testing.

There are two configurations S15aa&S14aa (Mainly Supply) and S21aa&S24aa (Secondary Supply) in this project. We mainly tested the S15aa&S14aa (Mainly Supply), and the S21aa&S24aa (Secondary Supply) tested the worst mode RSE of the mainly supply, and recorded the test results of the worst mode respectively in the report.

The description of the differences between S15aa&S14aa (Mainly Supply) and S21aa&S24aa (Secondary Supply) are as follows:

Model Difference	T6F10 (High Configuration) S15aa&S14aa (Mainly Supply)	T6F10 (Basic Configuration) S21aa&S24aa (Secondary Supply)
Scanner	Yes	No
LCD (Just different manufacturers)	SHENZHEN DJN PHOTOELECTRIC TECHNOLOGY CO., LTD	CPT Technology (Group) Co.,Ltd
DDR	It's just that the manufacturer and memory are different	
EMMC	It's just that the manufacturer and memory are different	

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 1.3.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 5.3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 6 of this test report.

1.4 Data Provided by Applicant

No.	Item(s)	Data
1	GSM 850	-1.63 dBi
2	PCS 1900	0.46 dBi

Note: The data of antenna gain is provided by Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

2. General Information of The Laboratory

2.1 Testing Laboratory

Lab Name	Industrial Internet Innovation Center (Shanghai) Co.,Ltd.
Address	Building 4, No. 766, Jingang Road, Pudong, Shanghai, China
Telephone	021-68866880
FCC Registration No.	708870
FCC Designation No.	CN1364

2.2 Laboratory Environmental Requirements

Temperature	15°C~35°C
Relative Humidity	25%RH~75%RH
Atmospheric Pressure	86kPa~106kPa

2.3 Project Information

Project Manager	Gao Hongning
Test Date	December 05, 2023 to January 25, 2024

3. General Information of The Customer

3.1 Applicant

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

3.2 Manufacturer

Company	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
Telephone	18826519551

4. General Information of The Product

4.1 Product Description for Equipment under Test (EUT)

Product	Smart POS system
Model	T6F10
Date of Receipt	S14aa/S15aa/S21aa: December 05, 2023 S24aa: December 11, 2023
EUT ID*	S14aa/S15aa/S21aa/S24aa
SN/IMEI	S14aa: P305D3BP10020 S15aa: P305D3BP10023 S21aa: P302D3BF10251 S24aa: P305D3BP10042
Supported Radio Technology and Bands	GSM850/GSM900/DCS1800/PCS1900 WCDMA Band I/II/IV/V/VI/VIII/XIX LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41 BT 5.0 BLE/BR/EDR WLAN 802.11b/g/n WLAN 802.11a/n/ac GPS/GLONASS/BDS/Galileo NFC
Hardware Version	V1.0(LA+EU)
Software Version	V3.0.0
FCC ID	2AH25T6F10
Power Rating	DC 7.7V form battery, DC 5V form adapter
NOTE1: EUT ID is the internal identification code of the laboratory. NOTE2: Samples in the test report are provided by the customer. The test results are only applicable to the samples received by the laboratory.	

4.2 Description for Auxiliary Equipment (AE)

AE ID*	Description	Model	SN/Remark
AE1	RF Cable	N/A	N/A
CD01	Adapter	TPA-141A050200UU01	N/A
CH02	Adapter	UC13US	N/A
CI02	Adapter	TPA-23A050200UU01	N/A
UA09	USB Cable	N/A	N/A
BA12	Battery	HPPA	ICON ENERGY SYSTEM (SHENZHEN) CO., LTD.
BB07	Battery	HPPA	Guangdong Highpower New Energy Technology Co., Ltd.

NOTE1: AE ID is the internal identification code of the laboratory.

NOTE2: By verifying that BA12+CI02 is the worst battery and adapter combination, this battery and adapter are used in all tests.

4.3 Additional Information

Modulation:

Type of modulation	GMSK/8PSK
--------------------	-----------

Band Frequency Range:

Band	Frequency Rang(MHz)
GSM850	824.2-848.8
PCS1900	1850.2-1909.8

Band List:

Band	Low Channel	Low Freq. (MHz)	Mid Channel	Mid Freq. (MHz)	High Channel	High Freq. (MHz)
GSM850	128	824.2	189	836.4	251	848.8
PCS1900	512	1850.2	661	1880	810	1909.8

5. Test Configuration Information

5.1 Laboratory Environmental Conditions

5.1.1 Permanent Facilities

Relative Humidity	Min. = 45%, Max. = 55 %		
Atmospheric Pressure	101kPa		
Temperature	Normal	Minimum	Maximum
	25℃	-10℃	50℃
Working Voltage of EUT	Normal	Minimum	Maximum
	7.7V	6.0V	8.8 V

5.2 Test Equipments Utilized

Conduction test system

No.	Name	Model	S/N	SW Version	HW Version	Manufacturer	Cal. Date	Cal. Interval
1	Software	Eagle V3.3	N/A	V3.3	N/A	3IN	N/A	N/A
2	Frequency spectrum analyzer	FSQ	101091	V4.75	V11.00	R&S	2023-07-26	1 Year
3	Wideband Radio Communication Tester	CMW 500	148874	V3.5.136	N/A	R&S	2023-07-27	1 Year
4	Temperature Chamber	B-TF-107C	201804107	N/A	N/A	BoYi	2023-06-28	1 Year
5	Programmable power supply	Keithley 2303	4039070	N/A	N/A	Keithley	2023-06-23	1 Year
6	RF Test Automation Box	RF 2021B	2001	V3.3	N/A	RANATEC	N/A	N/A

Radiated emission test system

No.	Name	Model	S/N	SW Version	HW Version	Manufacturer	Cal. Date	Cal. Interval
1	Universal Radio Communication Tester	CMU200	123126	V5.2.1	B12	R&S	2023-10-16	1 Year
2	Universal Radio Communication Tester	CMW500	104178	V3.7.20	1206.0600.00	R&S	2023-10-16	1 Year

3	EMI Test Receiver	ESU40	100307	V5.1-24-3	01	R&S	2022-12-19	1 Year
4	TRILOG Broadband Antenna	VULB9163	01345	N/A	N/A	Schwar zbeck	2023-03-23	1 Year
5	Double- ridged Waveguide Antenna	ETS-3117	00135890	N/A	N/A	ETS	2022-03-09	2 Years
6	EMI Test Software	EMC32 V10.35.02	N/A	N/A	N/A	R&S	N/A	N/A
7	Preamplifier	SCU08F1	8320024	N/A	N/A	R&S	2023-10-16	1 year
8	Preamplifier	SCU18	10155	N/A	N/A	R&S	2023-10-16	1 year
9	Antenna	SWB-VUBA 9117	9117-266	N/A	N/A	Schwar zbeck	2023-9-8	1 year
10	Antenna	BBHA9120 D	02112	N/A	N/A	Schwar zbeck	2023-7-28	1 year
11	Signal Generator	SMF100A	102314	3.20.390.24	05.10	R&S	2023-10-16	1 year

5.3 Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in 3IN documents. The detailed measurement uncertainty is defined in 3IN documents.

Measurement Uncertainty of Radiation test

Frequency Range	Uncertainty(dB)
$30\text{MHz} \leq f \leq 1\text{GHz}$	± 5.10
$1\text{GHz} \leq f \leq 18\text{GHz}$	± 5.66
$18\text{GHz} \leq f \leq 40\text{GHz}$	± 5.22

Measurement Uncertainty of Conduction test

No	Item	Extended uncertainty (k=2)	
1	Frequency Tolerance	23Hz	
2	RF Output Power	0.7dB	
3	conducted spurious	9kHz~3.6GHz	1.5dB
		3.6GHz~8.4GHz	2.8dB
		8.4GHz~12.75GHz	3.4dB
4	EVM	2.1%	
6	Occupied Bandwidth	Bandwidth 1.4MHz	0.03MHz
		Bandwidth 3MHz	0.03MHz
		Bandwidth 5MHz	0.03MHz
		Bandwidth 10MHz	0.05MHz
		Bandwidth 15MHz	0.06MHz
		Bandwidth 20MHz	0.08MHz
7	Emission intermodulation	Adjacent channel	1.4dB
		Alternate channel	1.4dB
8	Range of frequency	0.08MHz	

6. Test Results

6.1 Output Power

6.1.1 Measurement Limit

FCC §22.913(a) Mobile stations are limited to 7 watts.

FCC §24.232(c) Mobile and portable stations are limited to 2 watts.

6.1.2 Method of Measurements

Method of measurements please refer to KDB971168 D01 v03 clause 5.

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz base station CMW500.

These measurements were done at 3 frequencies.(bottom, middle and top of operational frequency range).

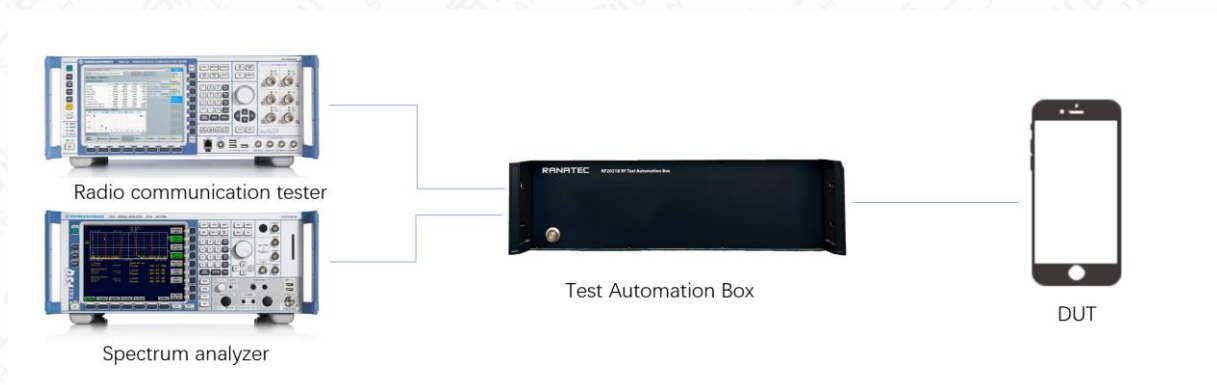
1. The transmitter output port was connected to base station.
2. Set the EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record maximum average power for other modulation signal.
5. During the process of testing, the EUT was controlled Rhode & Schwarz Digital Radio.
6. Communication tester to ensure max power transmission and proper modulation.
7. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

$EIRP = \text{Conducted power} + \text{Gain}$, $ERP = EIRP - 2.15\text{dBi}$.

6.1.3 Test procedures

The transmitter output power was connected to calibrated attenuator, the other end of which was connected to signal analyzer. Transmitter output power was read off the power in dBm. The power outputs at the transmitter antenna port was determined by adding the value of attenuator to the base station reading.

6.1.4 Test Setup



6.1.5 Output Power and EIRP/ERP results

GPRS 850 (GMSK 1 Slot)	
Channel/fc(MHz)	Conducted Output Power (dBm)
Low 128/824.2	32.83
Mid 189/836.4	32.95
High 251/848.8	33.05
GPRS 1900 (GMSK 1 Slot)	
Channel/fc(MHz)	Conducted Output Power (dBm)
Low 512/1850.2	29.77
Mid 661/1880	29.63
High 810/1909.8	29.41
EGPRS 850 (8PSK 1 Slot)	
Channel/fc(MHz)	Conducted Output Power (dBm)
Low 128/824.2	26.38
Mid 189/836.4	26.47
High 251/848.8	26.42
EGPRS 1900 (8PSK 1 Slot)	
Channel/fc(MHz)	Conducted Output Power (dBm)
Low 512/1850.2	26.68
Mid 661/1880	26.34
High 810/1909.8	26.14

6.1.6 EIRP/ERP results

GSM850

GPRS(GMSK)

Frequency(MHz)	EIRP (dBm)	ERP (dBm)
824.2	31.20	29.05
836.4	31.32	29.17
848.8	31.42	29.27

EGPRS(8PSK)

Frequency(MHz)	EIRP (dBm)	ERP (dBm)
824.2	24.75	22.60
836.6	24.84	22.69
848.8	24.79	22.64

PCS 1900

GPRS (GMSK)

Frequency(MHz)	EIRP (dBm)
1850.2	30.23
1880.0	30.09
1909.8	29.87

EGPRS(8PSK)

Frequency(MHz)	EIRP (dBm)
1850.2	27.14
1880.0	26.80
1909.8	26.60

6.2 Peak-to-Average Power Ratio

6.2.1 Measurement Limit

The peak-to-average power ratio (PAPR) of the transmission may not exceed 13dB.

6.2.2 Method of Measurement

The EUT was connected to the spectrum analyzer and system simulator via a power divider.

Select the spectrum analyzer CCDF function.

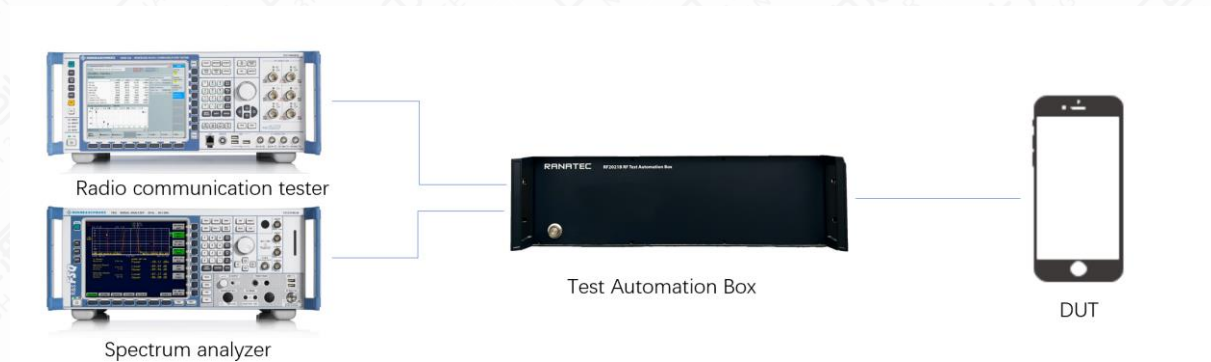
Set RBW $\geq$ signal's occupied bandwidth.

Set the number of counts to a value that stabilizes the measured CCDF curve;

Sweep time $\geq$ 1s.

Record the maximum PAPR level associated with a probability of 0.1%.

6.2.3 Test Setup



6.2.4 Measurement results

Band	Network	Channel	PCL/Gamma	PAPR	Limit
GSM850	GPRS	128	4	10.64	N/A
GSM850	GPRS	189	4	10.64	N/A
GSM850	GPRS	251	4	10.67	N/A
GSM850	EDGE	128	6	8.62	N/A
GSM850	EDGE	189	6	8.62	N/A
GSM850	EDGE	251	6	10.67	N/A
GSM1900	GPRS	512	3	10.67	13
GSM1900	GPRS	661	3	10.67	13
GSM1900	GPRS	810	3	9.29	13
GSM1900	EDGE	512	5	9.29	13
GSM1900	EDGE	661	5	10.67	13
GSM1900	EDGE	810	5	7.66	13

6.3 99% Occupied Bandwidth

6.3.1 Summary

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of GSM850, PCS1900.

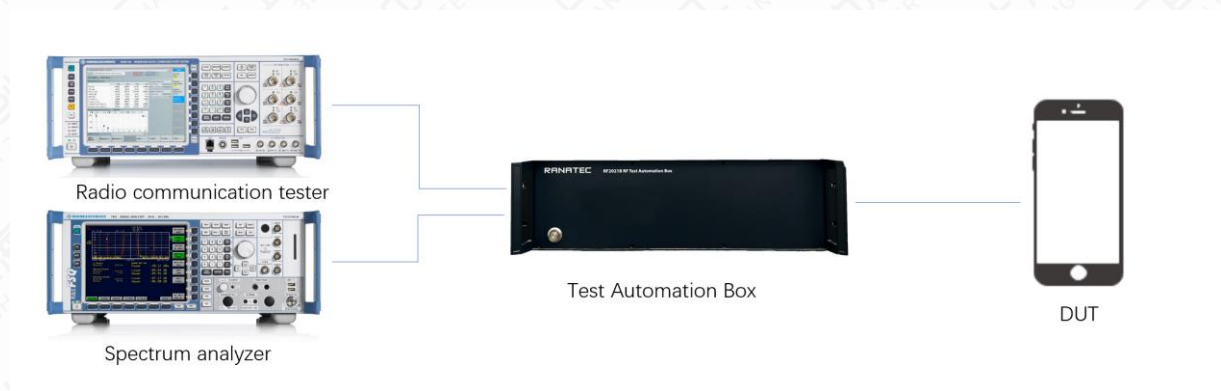
6.3.2 Method of Measurement

The EUT output RF connector was connected with a short cable to the signal analyzer.

RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW.

99% bandwidth were measured, the occupied bandwidth is delta frequency between the two points where the display line intersects the signal trace.

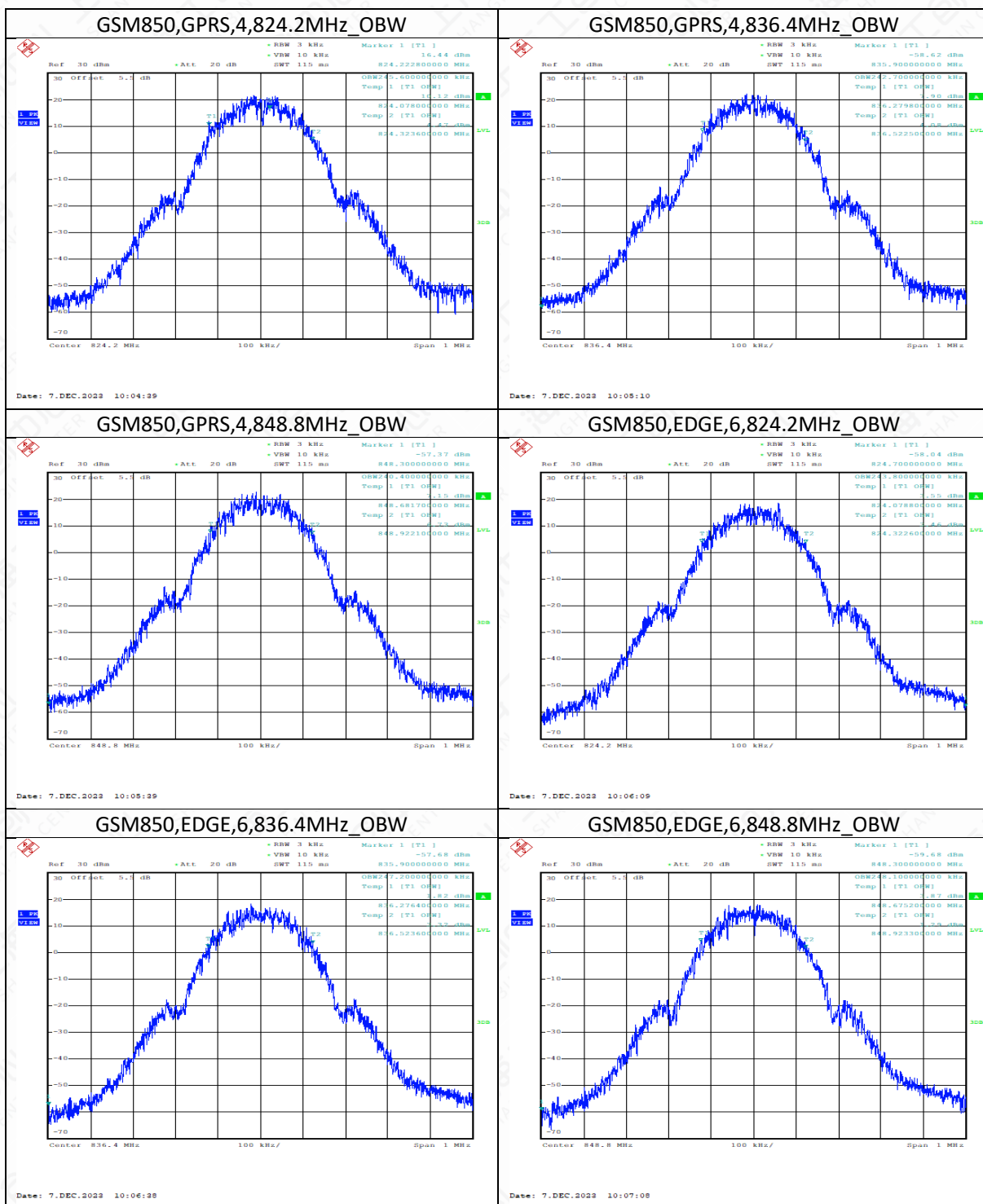
6.3.3 Test Setup

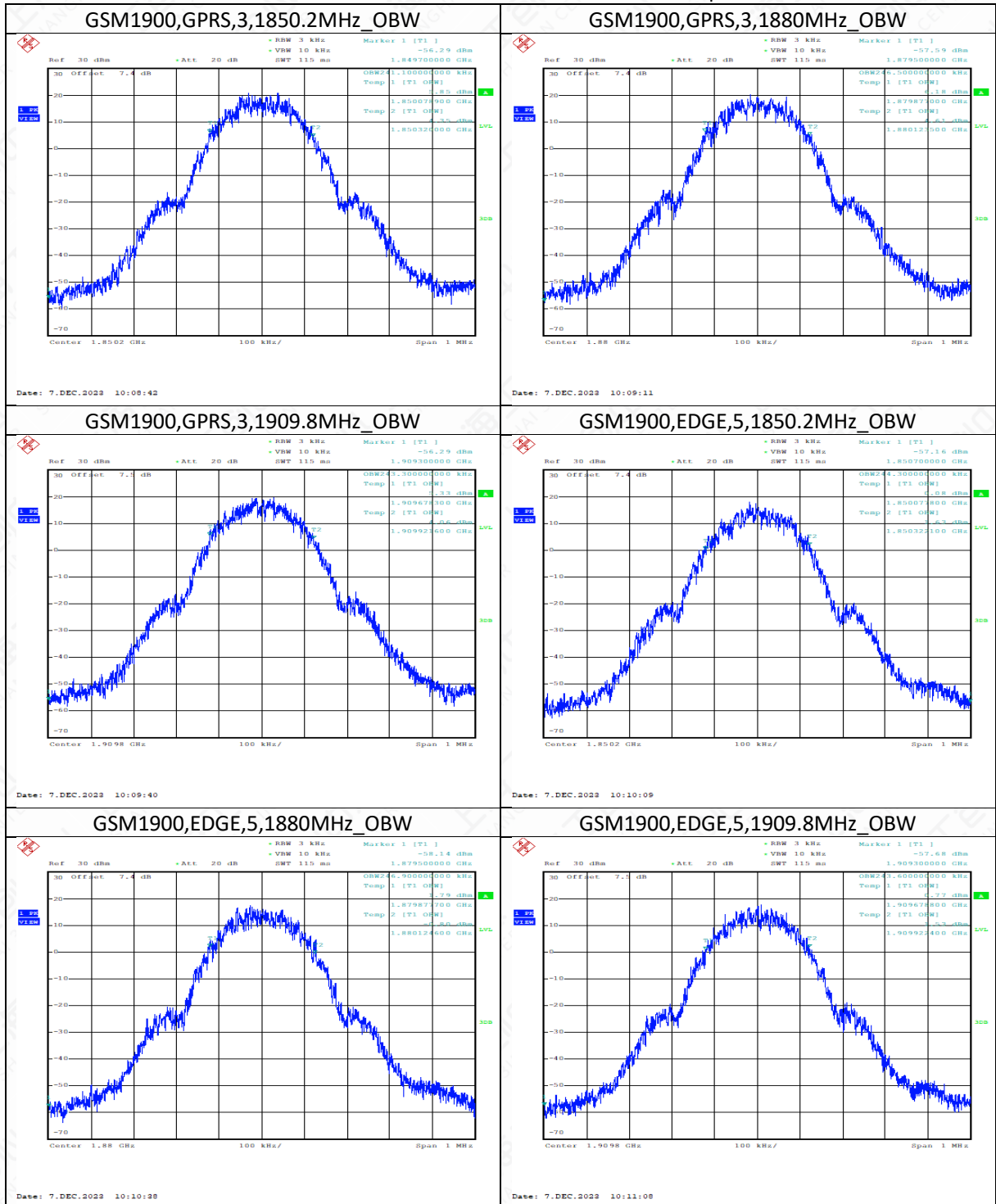


6.3.4 Measurement results

Band	Network	Channel/fc(MHz)	Gamma	99%OBW(kHz)
GSM850	GPRS	128	4	245.60
GSM850	GPRS	189	4	242.70
GSM850	GPRS	251	4	240.40
Band	Network	Channel/fc(MHz)	Gamma	99%OBW(kHz)
GSM850	EDGE	128	6	243.80
GSM850	EDGE	189	6	247.20
GSM850	EDGE	251	6	248.10
Band	Network	Channel/fc(MHz)	Gamma	99%OBW(kHz)
GSM1900	GPRS	512	3	241.10
GSM1900	GPRS	661	3	246.50
GSM1900	GPRS	810	3	243.30
Band	Network	Channel/fc(MHz)	Gamma	99%OBW(kHz)
GSM1900	EDGE	512	5	244.30
GSM1900	EDGE	661	5	246.90

GSM1900	EDGE	810	5	243.60
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6.4 26dB Emission Bandwidth

6.4.1 Summary

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of GSM850,PCS1900.

6.4.2 Method of Measurement

The EUT output RF connector was connected with a short cable to the signal analyzer.

RBW was set to about 1% of emission BW, VBW $\geq$ 3 times RBW,.

26dB bandwidth were measured, the occupied bandwidth is delta frequency between the two points where the display line intersects the signal trace.

For GSM: signal analyzer setting as: RBW= 3KHz; VBW=10KHz; Span=1MHz.

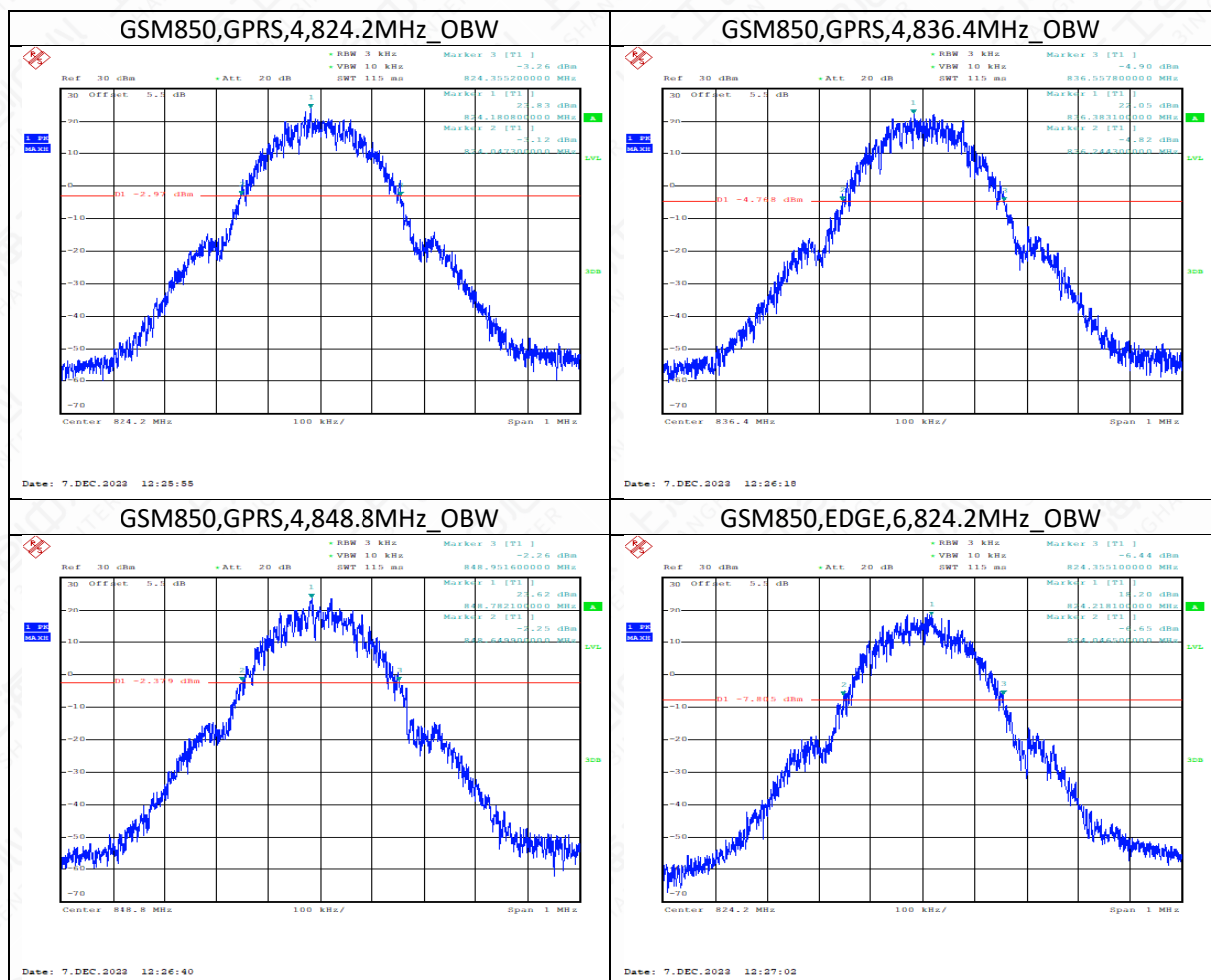
6.4.3 Test Setup

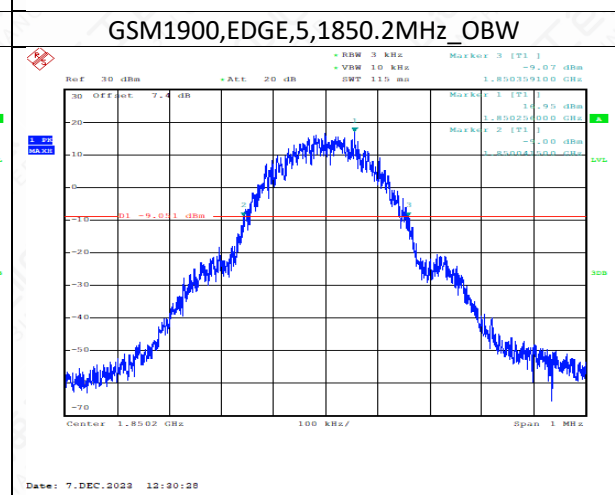
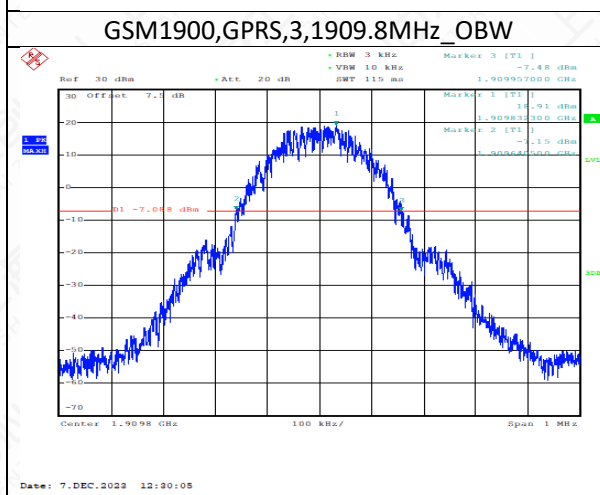
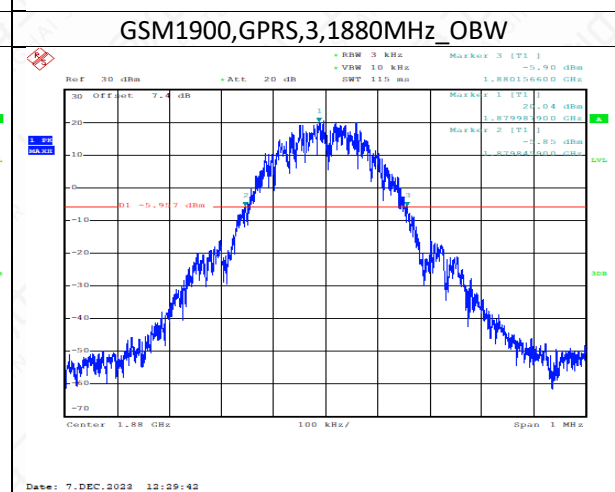
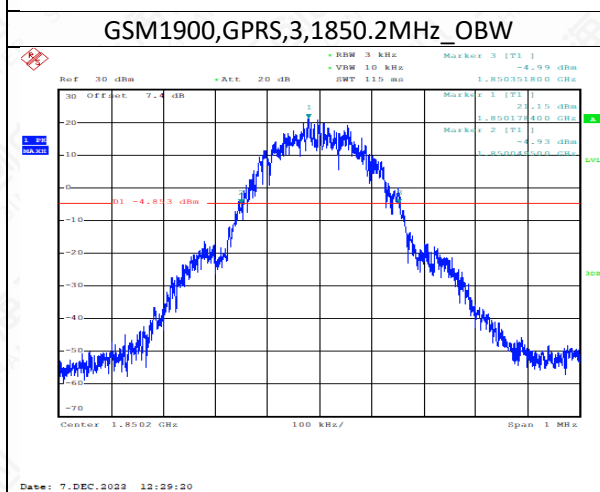
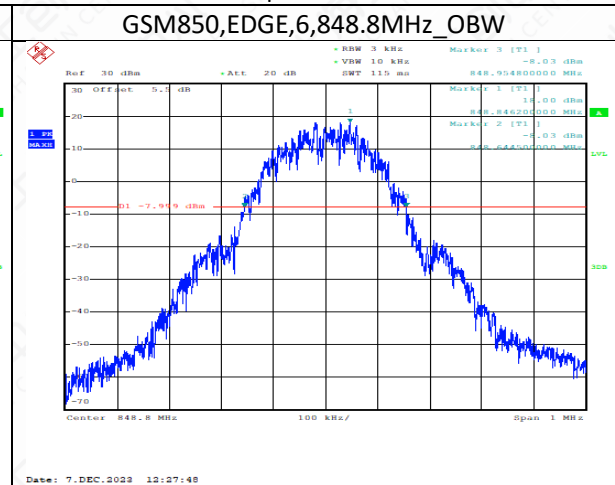
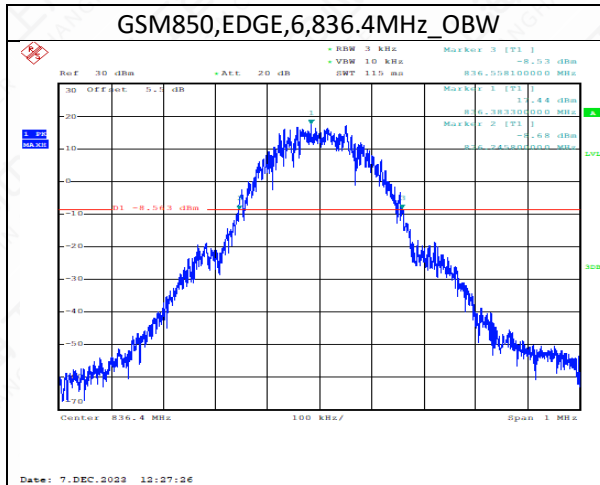


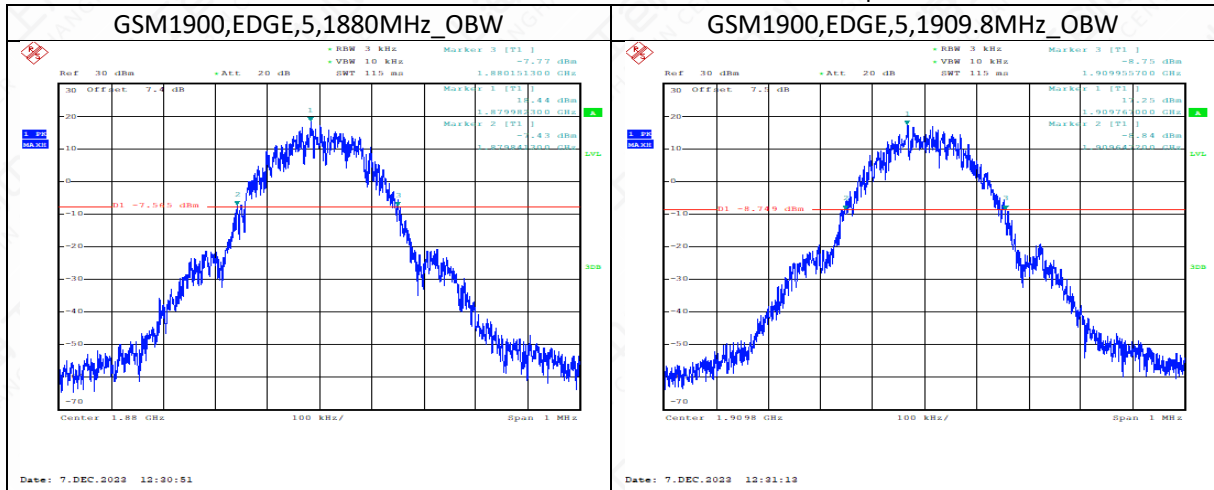
6.4.4 Measurement results

Band	Network	Channel	Gamma	26dBDn OccupiedWidth(kHz)	Limit(kHz)
GSM850	GPRS	128	4	308.00	N/A
GSM850	GPRS	189	4	313.00	N/A
GSM850	GPRS	251	4	302.00	N/A
Band	Network	Channel	Gamma	26dBDn OccupiedWidth(kHz)	Limit(kHz)
GSM850	EDGE	128	6	309.00	N/A
GSM850	EDGE	189	6	312.00	N/A
GSM850	EDGE	251	6	310.00	N/A

Band	Network	Channel	Gamma	26dBDown OccupiedWidth(kHz)	Limit(kHz)
GSM1900	GPRS	512	3	302.00	N/A
GSM1900	GPRS	661	3	311.00	N/A
GSM1900	GPRS	810	3	316.00	N/A
Band	Network	Channel	Gamma	26dBDown OccupiedWidth(kHz)	Limit(kHz)
GSM1900	EDGE	512	5	318.00	N/A
GSM1900	EDGE	661	5	310.00	N/A
GSM1900	EDGE	810	5	309.00	N/A







6.5 Band Edge at antenna terminals

6.5.1 Measurement Limit

FCC §22.917: The rules in this section govern the spectral characteristics of emissions in the Cellular Radiotelephone Service.

(a) Out of band emissions. 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 §24.238(a) Out of band emissions. 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.

6.5.2 Method of Measurement

The RF output of the transceiver was connected to a signal analyzer through appropriate attenuation.

In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band

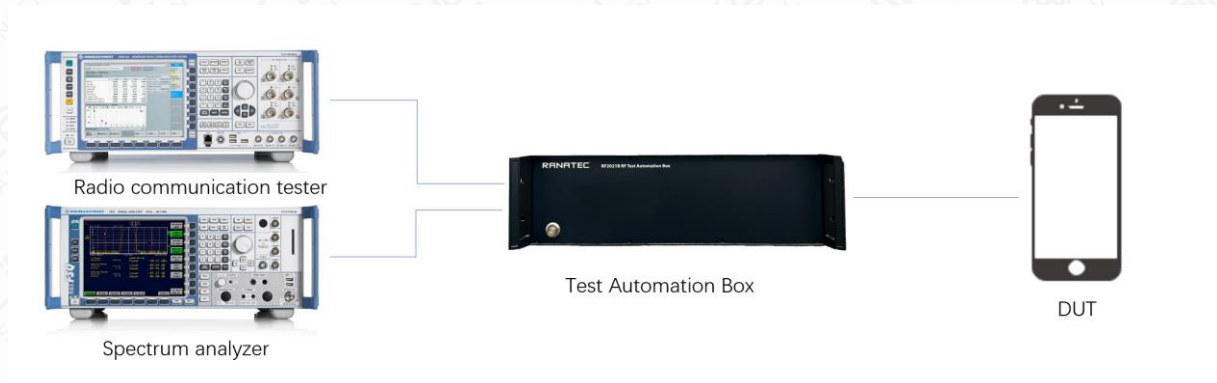
The limit line is derived from $43+10\log(P)$ Db below the transmitter power P(Watts)

$$= P(W) - [43 + 10 \log(P)] (dB)$$

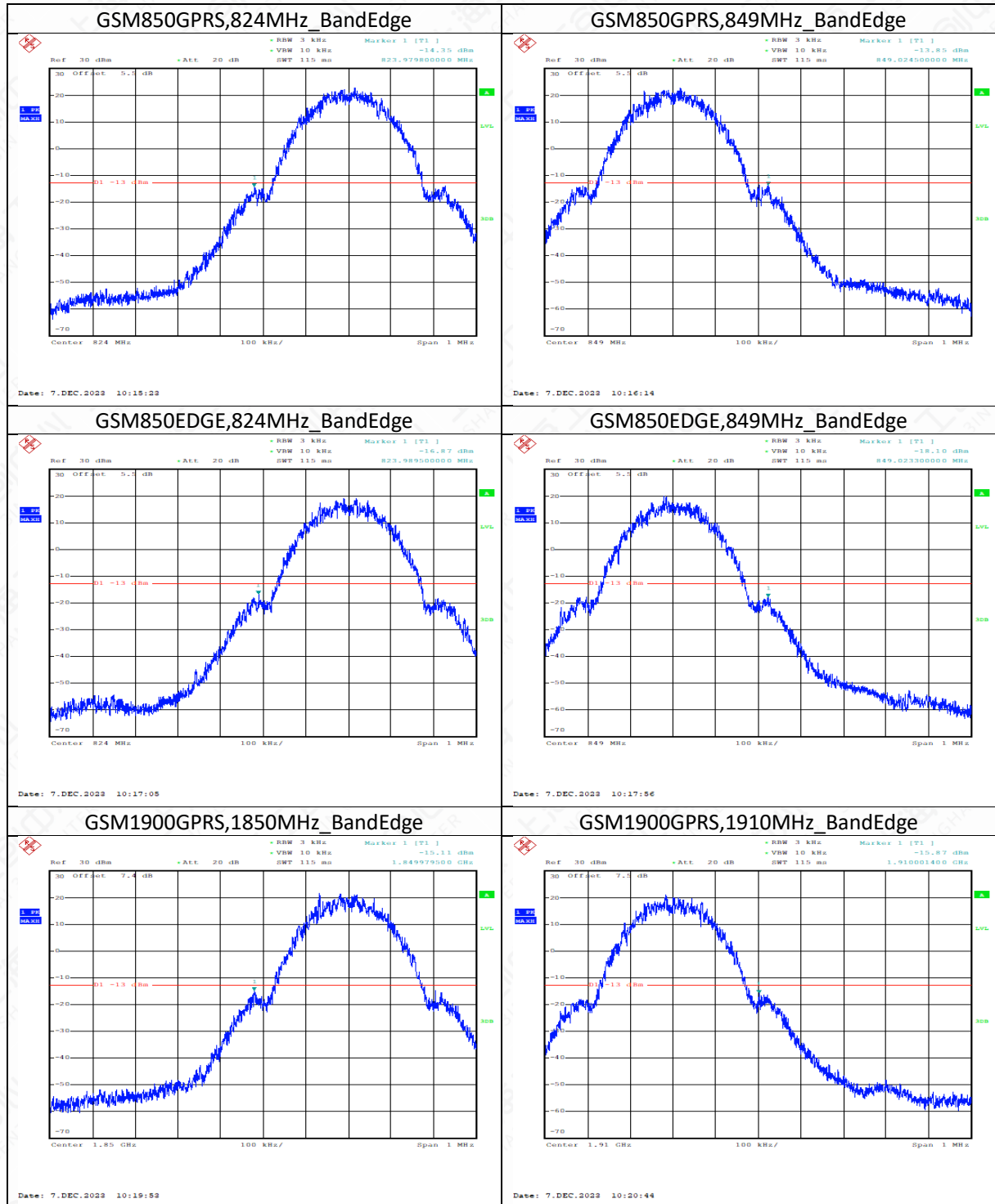
$$= [30 + 10 \log(P)] (dBm) - [43 + 10 \log(P)] (dB)$$

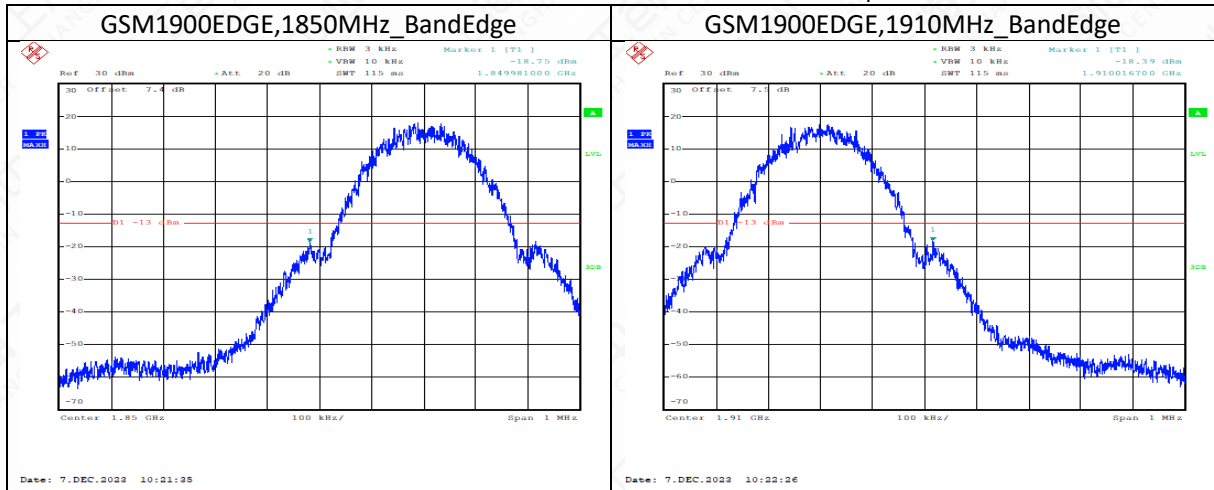
$$= -13 dBm$$

6.5.3 Test Setup



6.5.4 Measurement Result





6.6 Frequency Stability

6.6.1 Measurement Limit

FCC §2.1055 The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (2) From -20° to $+50^{\circ}$ centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

FCC §24.235 Frequency stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC §22.355 Frequency tolerance. Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

6.6.2 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C .
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on mid channel of GSM850, PCS1900, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to $+50^{\circ}\text{C}$. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at $+50^{\circ}\text{C}$.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C increments from $+50^{\circ}\text{C}$ to -30°C . Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to $\pm 0.5^{\circ}\text{C}$ during the measurement procedure.

6.6.3 Test Setup



6.6.4 Test results

Band	Network	Channel	Gamma	Temperature	Voltage	Frequency Error(Hz)	Frequency Error(ppm)	Result
GSM850	GPRS	189	3	Normal	Low	2.938	0.004	Pass
GSM850	GPRS	189	3	Normal	Normal	2.583	0.003	Pass
GSM850	GPRS	189	3	Normal	High	7.878	0.009	Pass
GSM850	GPRS	189	3	50	Normal	0.291	0.000	Pass
GSM850	GPRS	189	3	40	Normal	0.969	0.001	Pass
GSM850	GPRS	189	3	30	Normal	5.456	0.007	Pass
GSM850	GPRS	189	3	20	Normal	4.294	0.005	Pass
GSM850	GPRS	189	3	10	Normal	4.843	0.006	Pass
GSM850	GPRS	189	3	0	Normal	4.681	0.006	Pass
GSM850	GPRS	189	3	-10	Normal	6.328	0.008	Pass
GSM850	GPRS	189	3	-20	Normal	5.424	0.006	Pass
GSM850	GPRS	189	3	-30	Normal	6.005	0.007	Pass
Band	Network	Channel	Gamma	Temperature	Voltage	Frequency Error(Hz)	Frequency Error(ppm)	Result
GSM850	EDGE	189	6	Normal	Low	-0.872	0.001	Pass
GSM850	EDGE	189	6	Normal	Normal	5.876	0.007	Pass
GSM850	EDGE	189	6	Normal	High	2.454	0.003	Pass
GSM850	EDGE	189	6	50	Normal	7.684	0.009	Pass
GSM850	EDGE	189	6	40	Normal	8.104	0.010	Pass
GSM850	EDGE	189	6	30	Normal	5.618	0.007	Pass
GSM850	EDGE	189	6	20	Normal	-1.550	0.002	Pass

GSM850	EDGE	189	6	10	Normal	6.683	0.008	Pass
GSM850	EDGE	189	6	0	Normal	4.133	0.005	Pass
GSM850	EDGE	189	6	-10	Normal	3.939	0.005	Pass
GSM850	EDGE	189	6	-20	Normal	0.872	0.001	Pass
GSM850	EDGE	189	6	-30	Normal	7.490	0.009	Pass
Band	Network	Channel	Gamma	Temperature	Voltage	Frequency Error(Hz)	Frequency Error(ppm)	Result
GSM1900	GPRS	661	3	Normal	Low	17.144	0.009	Pass
GSM1900	GPRS	661	3	Normal	Normal	13.721	0.007	Pass
GSM1900	GPRS	661	3	Normal	High	12.688	0.007	Pass
GSM1900	GPRS	661	3	50	Normal	6.328	0.003	Pass
GSM1900	GPRS	661	3	40	Normal	16.337	0.009	Pass
GSM1900	GPRS	661	3	30	Normal	19.242	0.010	Pass
GSM1900	GPRS	661	3	20	Normal	15.271	0.008	Pass
GSM1900	GPRS	661	3	10	Normal	12.398	0.007	Pass
GSM1900	GPRS	661	3	0	Normal	19.953	0.011	Pass
GSM1900	GPRS	661	3	-10	Normal	15.529	0.008	Pass
GSM1900	GPRS	661	3	-20	Normal	14.367	0.008	Pass
GSM1900	GPRS	661	3	-30	Normal	11.881	0.006	Pass
Band	Network	Channel	Gamma	Temperature	Voltage	Frequency Error(Hz)	Frequency Error(ppm)	Result
GSM1900	EDGE	661	5	Normal	Low	12.817	0.007	Pass
GSM1900	EDGE	661	5	Normal	Normal	19.081	0.010	Pass
GSM1900	EDGE	661	5	Normal	High	16.692	0.009	Pass
GSM1900	EDGE	661	5	50	Normal	13.269	0.007	Pass
GSM1900	EDGE	661	5	40	Normal	23.020	0.012	Pass
GSM1900	EDGE	661	5	30	Normal	9.460	0.005	Pass
GSM1900	EDGE	661	5	20	Normal	11.009	0.006	Pass
GSM1900	EDGE	661	5	10	Normal	14.948	0.008	Pass
GSM1900	EDGE	661	5	0	Normal	17.015	0.009	Pass
GSM1900	EDGE	661	5	-10	Normal	18.532	0.010	Pass

GSM1900	EDGE	661	5	-20	Normal	16.530	0.009	Pass
GSM1900	EDGE	661	5	-30	Normal	13.528	0.007	Pass

6.7 Conducted Spurious Emission

6.7.1 Measurement Limit

FCC §22.917: The rules in this section govern the spectral characteristics of emissions in the Cellular Radiotelephone Service.

(a) Out of band emissions. 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 §24.238(a) Out of band emissions. 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.

6.7.2 Method of Measurement

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of PCS1900 band, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz. For GSM850, data taken from 30 MHz to 10 GHz.

2. The sweep time is set automatically by instrument itself. That should be the optimal sweep time for the span and the RBW. If the sweep time is too short, that is sweep is too fast, the sweep result is not accurate; If the sweep time is too long, that is sweep is too low, some frequency components may be lost. The instrument will give a optimal sweep time according the selected span and RBW.

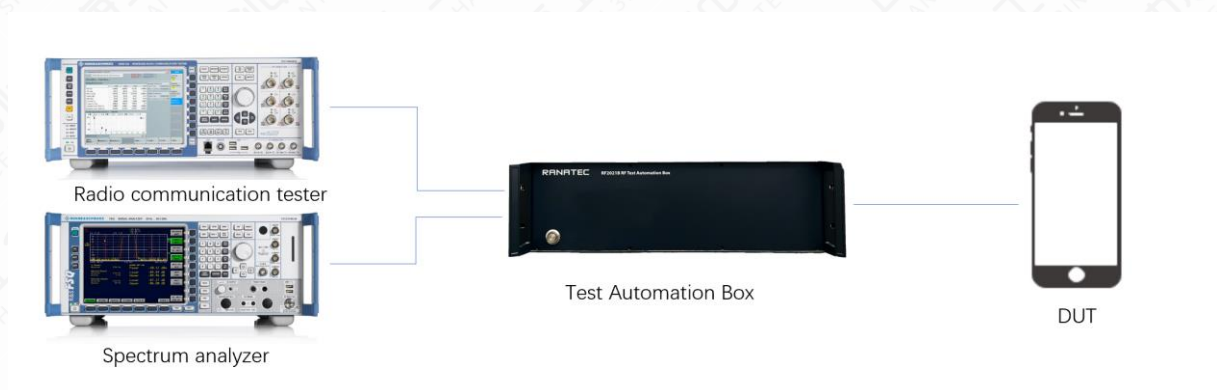
3. The procedure to get the conducted spurious emission is as follows:

The trace mode is set to MaxHold to get the highest signal at each frequency;

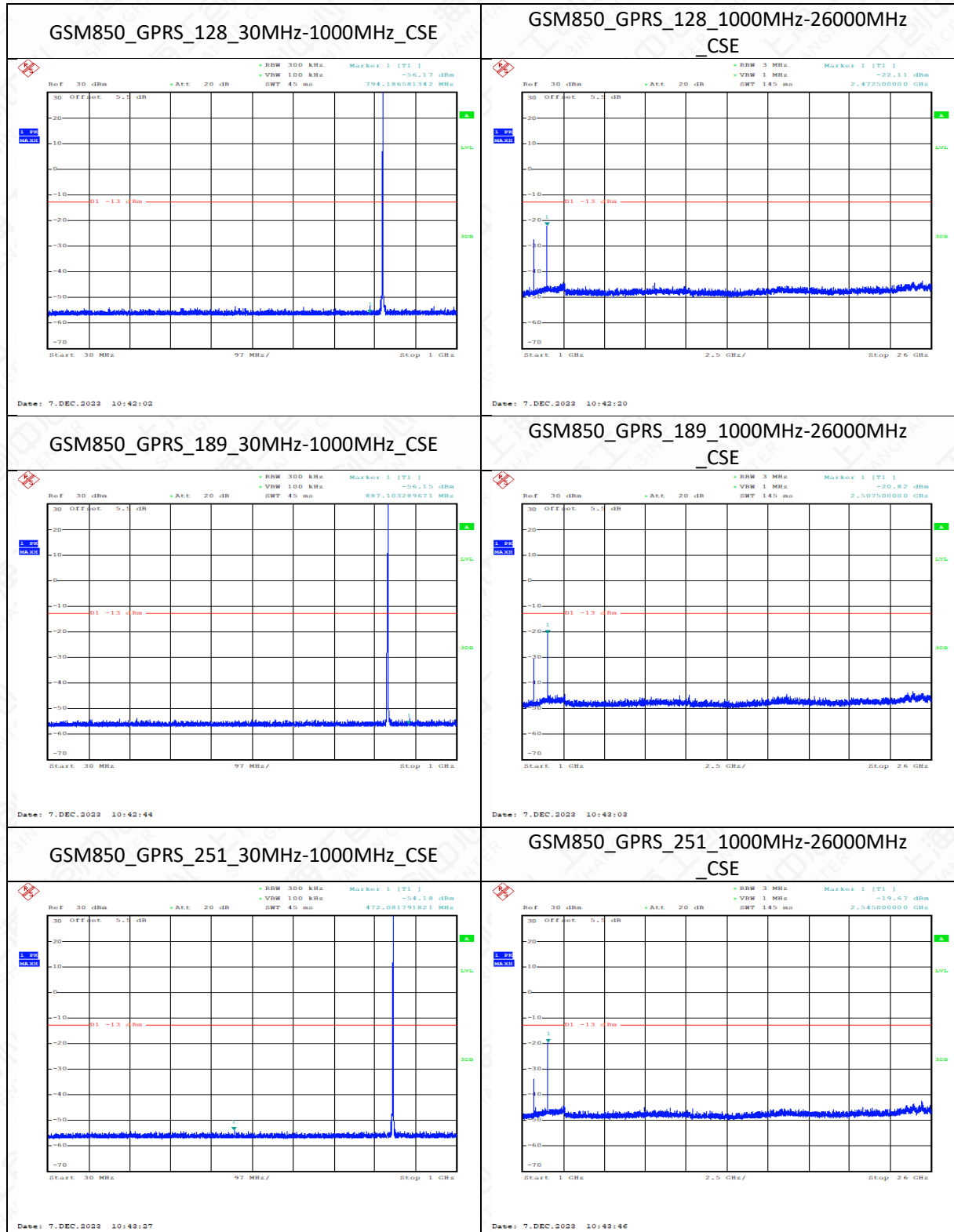
Wait 25 seconds; Get the result.

4. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

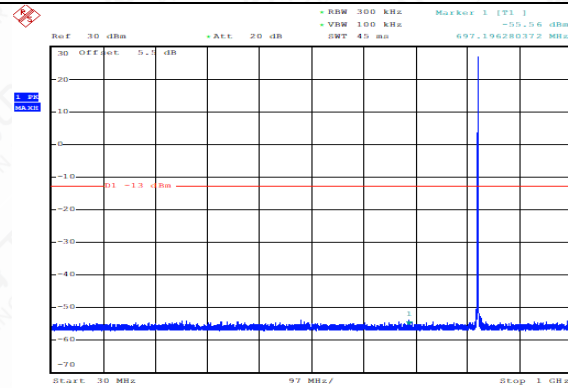
6.7.3 Test Setup



6.7.4 Measurement Result

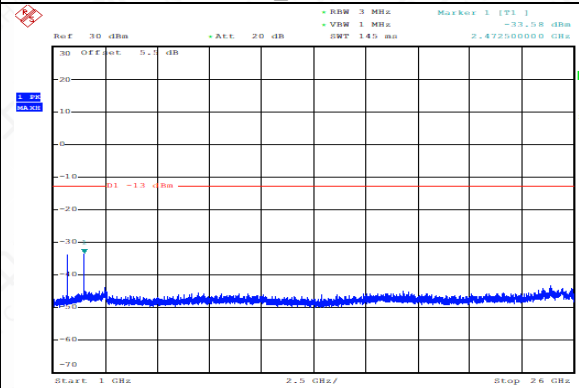


GSM850_EDGE_128_30MHz-1000MHz_CSE



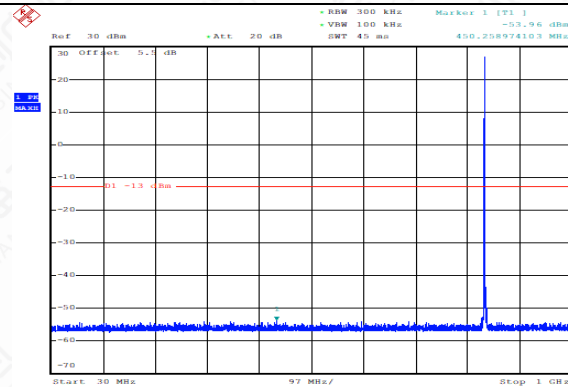
Date: 7.DEC.2023 10:44:10

GSM850_EDGE_128_1000MHz-26000MHz_CSE



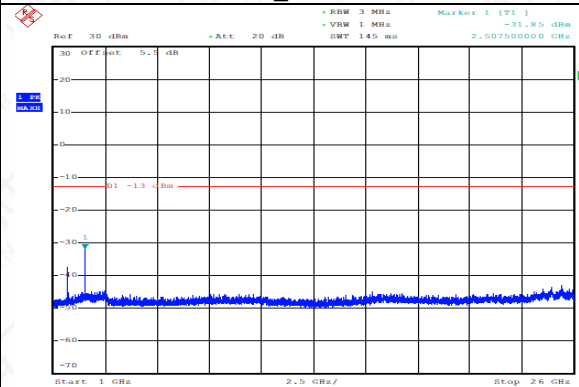
Date: 7.DEC.2023 10:44:29

GSM850_EDGE_189_30MHz-1000MHz_CSE



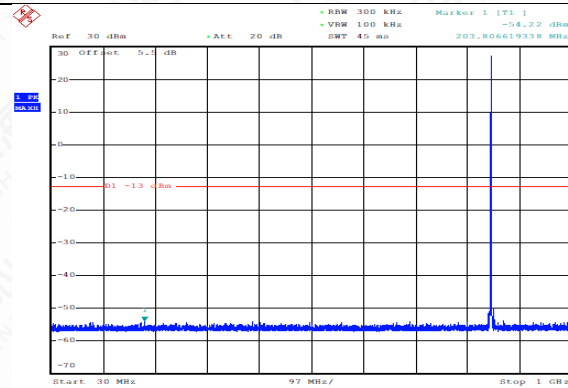
Date: 7.DEC.2023 10:44:59

GSM850_EDGE_189_1000MHz-26000MHz_CSE



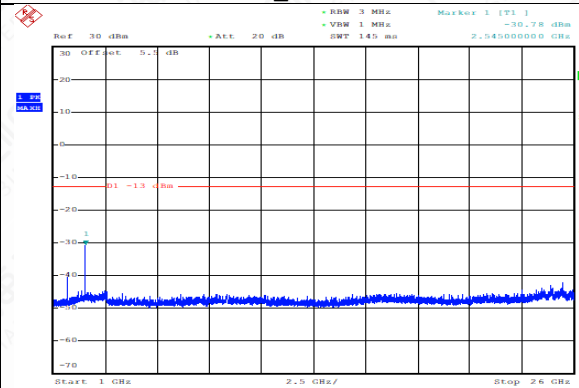
Date: 7.DEC.2023 10:45:12

GSM850_EDGE_251_30MHz-1000MHz_CSE



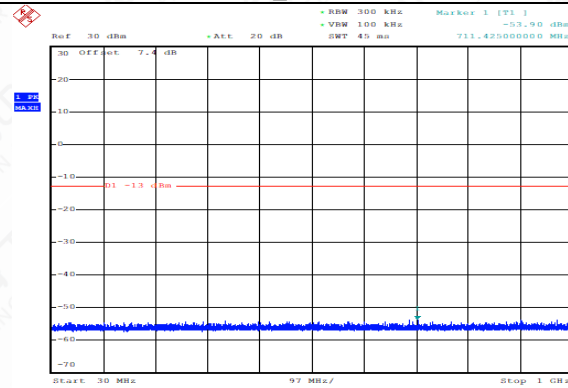
Date: 7.DEC.2023 10:45:27

GSM850_EDGE_251_1000MHz-26000MHz_CSE



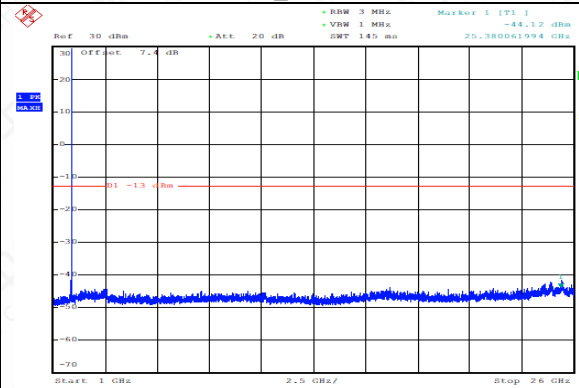
Date: 7.DEC.2023 10:45:56

GSM1900_GPRS_512_30MHz-1000MHz
_CSE



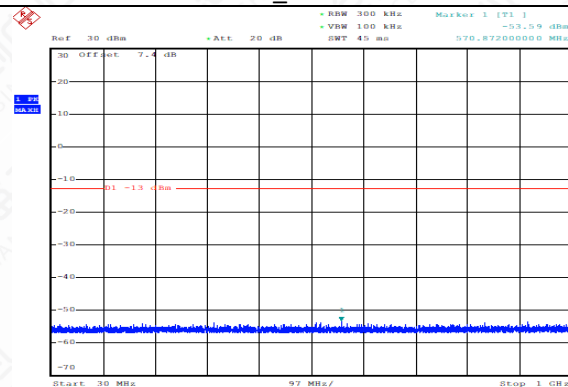
Date: 29.DEC.2023 14:49:40

GSM1900_GPRS_512_1000MHz-26000MHz
_CSE



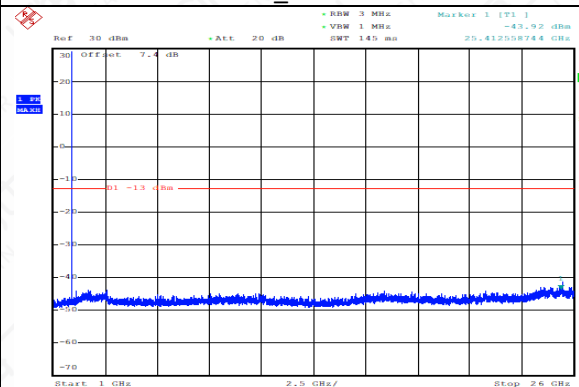
Date: 29.DEC.2023 14:49:58

GSM1900_GPRS_661_30MHz-1000MHz
_CSE



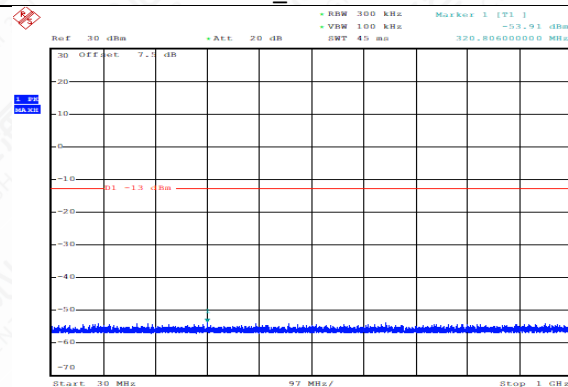
Date: 7.DEC.2023 10:48:09

GSM1900_GPRS_661_1000MHz-26000MHz
_CSE



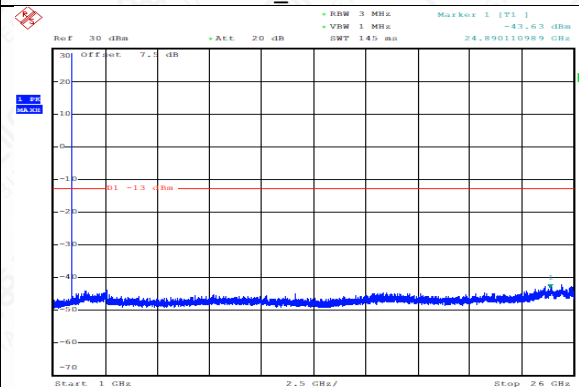
Date: 7.DEC.2023 10:48:27

GSM1900_GPRS_810_30MHz-1000MHz
_CSE



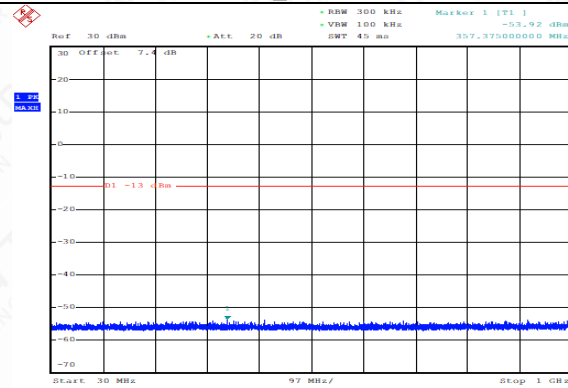
Date: 7.DEC.2023 10:48:52

GSM1900_GPRS_810_1000MHz-26000MHz
_CSE



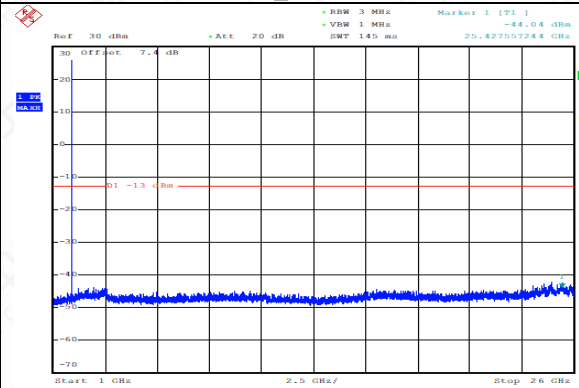
Date: 7.DEC.2023 10:49:11

GSM1900_EDGE_512_30MHz-1000MHz
_CSE



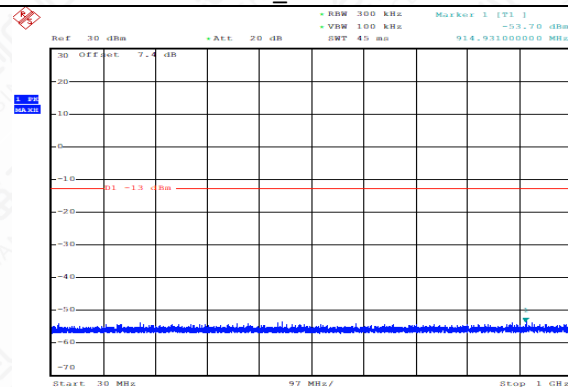
Date: 7.DEC.2023 10:49:25

GSM1900_EDGE_512_1000MHz-26000MHz
_CSE



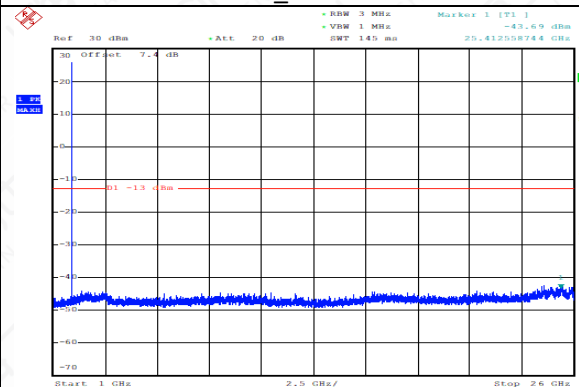
Date: 7.DEC.2023 10:49:54

GSM1900_EDGE_661_30MHz-1000MHz
_CSE



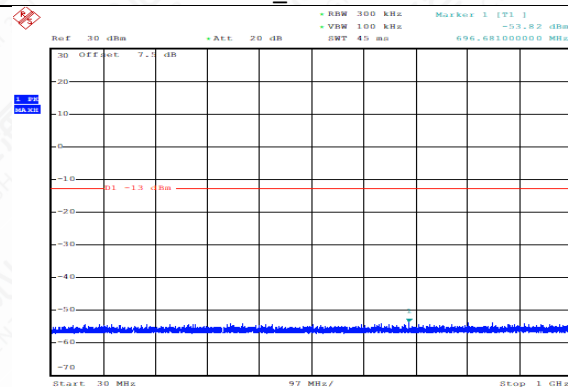
Date: 7.DEC.2023 10:50:20

GSM1900_EDGE_661_1000MHz-26000MHz
_CSE



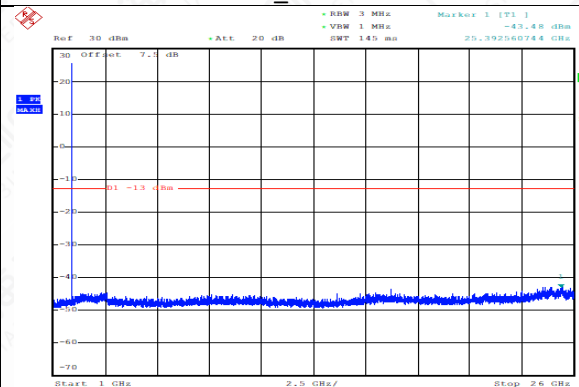
Date: 7.DEC.2023 10:50:28

GSM1900_EDGE_810_30MHz-1000MHz
_CSE



Date: 7.DEC.2023 10:51:02

GSM1900_EDGE_810_1000MHz-26000MHz
_CSE



Date: 7.DEC.2023 10:51:20

6.8 Emission Limit

6.8.1 Measurement Limit

FCC §22.917/24.238(a) specifies that " 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." Limit -13 dBm

6.8.2 Method of Measurement

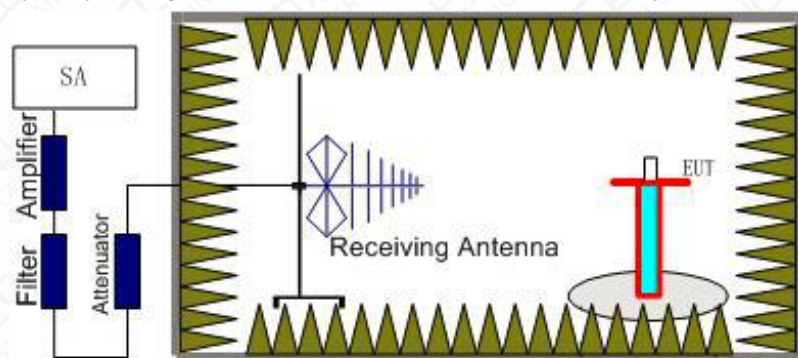
The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238 and Part 24.917.

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of PCS1900 and GSM850.

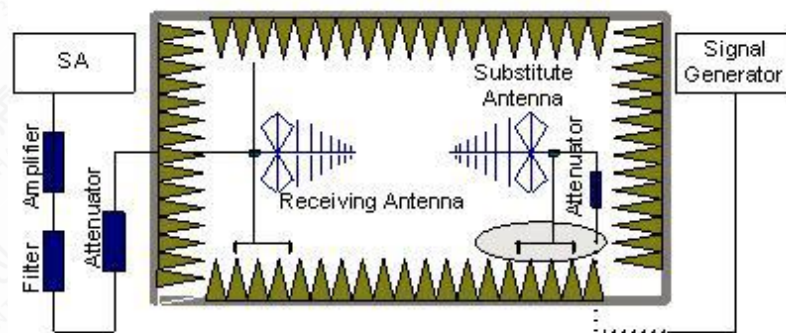
The procedure of radiated spurious emissions is as follows

1. EUT was placed on a 1.5 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 1.5m. The test setup refers to figure below. 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 non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (P_r).

3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



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 adjust 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.

4. The Path loss (Pcl) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (Ga) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (Pcl) is the summation of the cable loss .

The test results are obtained as described below:

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

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

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

6.8.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) and GSM850 band (824.2MHz, 836.6MHz, 848.8MHz) . It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

6.8.2.5 Measurement Results Table

Frequency	Channel	Frequency Range	Result
GSM850	Low	30MHz~10GHz	Pass
	Mid	30MHz~10GHz	Pass
	High	30MHz~10GHz	Pass
GSM1900	Low	30MHz~20GHz	Pass

	Mid	30MHz~20GHz	Pass
	High	30MHz~20GHz	Pass

Mainly Supply:
RSE-GPRS850-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
1881.4	-46.79	4.6	4.5	-46.89	-13	33.89	V
2555.4	-42.45	5.4	5.6	-42.25	-13	29.25	V
3394.6	-50.95	6.3	7.8	-49.45	-13	36.45	H
4219.6	-50.87	7.0	8.9	-48.97	-13	35.97	V
5073.5	-50.79	7.8	9.6	-48.99	-13	35.99	V
5955.0	-50.45	8.5	10.2	-48.75	-13	35.75	H

RSE-GPRS850-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
1791.4	-47.52	4.5	4.7	-47.32	-13	34.32	H
2634.6	-38.23	5.5	6.1	-37.63	-13	24.63	H
3444.2	-50.84	6.4	7.8	-49.44	-13	36.44	V
4249.6	-50.41	7.1	8.9	-48.61	-13	35.61	V
5161.2	-48.56	7.9	9.4	-47.06	-13	34.06	H
6167.7	-50.03	8.7	10.3	-48.43	-13	35.43	H

RSE-GPRS850-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
1755.0	-48.33	4.5	4.7	-48.13	-13	35.13	V
2620.7	-41.22	5.5	5.6	-41.12	-13	28.12	V
3531.9	-50.77	6.4	7.8	-49.37	-13	36.38	V
4345.4	-50.08	7.2	8.9	-48.38	-13	35.38	H
5258.1	-50.67	8.0	9.4	-49.27	-13	36.27	V
6187.7	-49.58	8.7	10.3	-47.98	-13	34.98	H

RSE-GPRS1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3700.2	-49.95	6.6	7.9	-48.65	-13	35.65	H
5551.2	-50.01	8.2	9.8	-48.41	-13	35.41	V
7449.6	-52.77	9.7	11.6	-50.87	-13	37.87	V
9249.6	-48.65	10.5	12.6	-46.55	-13	33.55	H
11115.6	-46.84	12.1	12.3	-46.64	-13	33.64	H
13072.8	-46.27	13.0	12.3	-46.97	-13	33.97	H

RSE-GPRS1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3759.6	-51.52	6.6	7.9	-50.22	-13	37.22	H
5640.6	-50.57	8.3	10.2	-48.67	-13	35.67	H
7542.0	-53.06	9.7	11.6	-51.16	-13	38.16	V
9660.0	-50.75	10.9	12.7	-48.95	-13	35.95	V
11150.4	-47.31	12.1	12.3	-47.11	-13	34.11	V
13305.6	-44.63	13.6	12.3	-45.93	-13	32.93	H

RSE-GPRS1900-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3820.2	-53.2	6.7	7.9	-52	-13	39.00	H
5729.4	-42.5	8.5	10.2	-40.8	-13	27.80	V
7653.6	-53.94	9.7	11.8	-51.84	-13	38.84	V
9650.4	-50.38	10.9	12.7	-48.58	-13	35.58	V
11557.2	-46.35	12.2	12.3	-46.25	-13	33.25	V
13722.0	-45.36	13.9	12.3	-46.96	-13	33.96	H

RSE-EGPRS850-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
2720.4	-40.5	5.6	6.1	-40	-13	27.00	H
3296.5	-49.16	6.2	6.9	-48.46	-13	35.46	V
4279.6	-50.45	7.1	8.9	-48.65	-13	35.65	H
5937.7	-49.74	8.5	10.2	-48.04	-13	35.04	V

7143.1	-49.57	9.4	11.4	-47.57	-13	34.57	V
8704.6	-49.13	10.4	12.7	-46.83	-13	33.83	V

RSE-EGPRS850-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
2592.9	-41.04	5.5	5.6	-40.94	-13	27.94	V
3586.2	-49.76	6.5	7.8	-48.46	-13	35.46	H
4894.6	-51.16	7.7	9.6	-49.26	-13	36.26	H
6370.8	-49.61	8.8	10.3	-48.11	-13	35.11	H
7506.2	-49.31	9.7	11.6	-47.41	-13	34.41	V
8666.2	-49.5	10.3	12.7	-47.1	-13	34.10	H

RSE-EGPRS850-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
1697.1	-46.48	4.5	4.7	-46.28	-13	33.28	H
2479.3	-38.03	5.4	5.6	-37.83	-13	24.83	H
3960.0	-50.63	6.8	8.6	-48.83	-13	35.83	H
5091.9	-49.59	7.9	9.6	-47.89	-13	34.89	V
6613.8	-49.31	9.1	10.6	-47.81	-13	34.81	H
8227.7	-49.87	10.1	12.4	-47.57	-13	34.57	H

RSE-EGPRS1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3777.6	-53.83	6.7	7.9	-52.63	-13	39.63	H
5659.8	-54.69	8.3	10.2	-52.79	-13	39.79	V
7533.6	-52.99	9.7	11.6	-51.09	-13	38.09	H
9250.8	-49.48	10.7	12.7	-47.48	-13	34.48	V
11396.4	-47.27	12.1	12.3	-47.07	-13	34.07	V
13320.0	-44.11	13.6	12.3	-45.41	-13	32.41	H

RSE-EGPRS1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3740.4	-54.72	6.6	7.9	-53.42	-13	40.42	V
5640.6	-52.98	8.3	10.2	-51.08	-13	38.08	V

7524.0	-53.4	9.7	11.6	-51.5	-13	38.50	H
9432.0	-51.86	10.7	12.7	-49.86	-13	36.86	H
11253.6	-46.7	12.1	12.3	-46.5	-13	33.50	V
13221.6	-45.54	13.0	12.3	-46.24	-13	33.24	H

RSE-EGPRS1900-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3812.4	-53.7	6.7	7.9	-52.5	-13	39.50	V
5729.4	-52.1	8.5	10.2	-50.4	-13	37.40	H
7801.2	-52.69	9.9	11.8	-50.79	-13	37.79	H
9610.8	-51.04	10.8	12.7	-49.14	-13	36.14	H
11552.4	-46.03	12.2	12.3	-45.93	-13	32.93	V
13380.0	-44.45	13.7	12.3	-45.85	-13	32.85	V

Secondary Supply
RSE-GPRS1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3700.8	-48.41	6.6	7.9	-47.11	-13	34.11	V
5551.2	-44.26	8.2	9.8	-42.66	-13	29.66	H
7496.4	-52.61	9.7	11.6	-50.71	-13	37.71	H
10186.8	-48.99	11.3	12.5	-47.79	-13	34.79	H
12807.6	-45.66	12.5	12.3	-45.86	-13	32.86	H
16810.8	-36.36	15.8	12.3	-39.86	-13	26.86	H

RSE-GPRS1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3760.2	-49.88	6.6	7.9	-48.58	-13	35.58	H
5640.6	-47.69	8.3	10.2	-45.79	-13	32.79	H
7890.0	-52.37	9.9	12.2	-50.07	-13	37.07	H
10378.8	-48.17	11.6	12.3	-47.47	-13	34.47	H
13354.8	-44.08	13.7	12.3	-45.48	-13	32.48	H
16959.6	-35.95	16.0	12.3	-39.65	-13	26.65	H

RSE-GPRS1900-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3819.0	-48.52	6.7	7.9	-47.32	-13	34.32	V
5729.4	-49	8.5	10.2	-47.3	-13	34.30	V
7532.4	-52.61	9.7	11.6	-50.71	-13	37.71	H
9289.2	-49.7	10.7	12.7	-47.7	-13	34.70	V
11655.6	-45.41	12.4	12.3	-45.51	-13	32.51	V
14806.8	-42.5	14.3	12.3	-44.5	-13	31.50	V

RSE-EGPRS1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3700.2	-48.08	6.6	7.9	-46.78	-13	33.78	V
5550.6	-48.77	8.2	9.8	-47.17	-13	34.17	V
7507.2	-52.77	9.7	11.6	-50.87	-13	37.87	H
9250.8	-49.75	10.7	12.7	-47.75	-13	34.75	V
11653.2	-45.62	12.4	12.3	-45.72	-13	32.72	V
16824.0	-35.66	15.8	12.3	-39.16	-13	26.16	H

RSE-EGPRS1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3760.2	-49.33	6.6	7.9	-48.03	-13	35.03	H
5640.6	-49.29	8.3	10.2	-47.39	-13	34.39	H
7354.8	-52.27	9.6	11.4	-50.47	-13	37.47	V
10342.8	-48.66	11.5	12.3	-47.86	-13	34.86	H
13357.2	-44.05	13.7	12.3	-45.45	-13	32.45	H
16726.8	-36.49	15.1	12.3	-39.29	-13	26.29	H

RSE-EGPRS190-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin (dBm)	Polarization
3819.6	-50.46	6.7	7.9	-49.26	-13	36.26	H
4654.2	-54.05	7.5	9.0	-52.55	-13	39.55	H
5729.4	-51.42	8.5	10.2	-49.72	-13	36.72	H
8352.0	-53.22	10.1	12.4	-50.92	-13	37.92	H

11431.2	-46.18	12.1	12.3	-45.98	-13	32.98	H
16965.6	-35.63	16.0	12.3	-39.33	-13	26.33	H

Note:

Only data in worst mode is provided.

Annex A: Revised History

Version	Revised Content
V00	Initial
V01	Modify some data and statements

Annex B: Accreditation Certificate



END OF REPORT